VOLUME 22
1984
ACC. NOS N84-10001 TO N84-35284

STAR
AN ABSTRACT JOURNAL

Scientific and Technical Aerospace Reports

Annual Index 1984

Part One
SUBJECT

PRODUCED BY THE
SCIENTIFIC AND TECHNICAL
INFORMATION
BRANCH

NASA

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

WHAT YOU CAN DO FOR *STAR*

All users of this abstract service are urged to forward reports to be considered for announcement in *STAR*. This will aid NASA in its efforts to provide the fullest possible coverage of all scientific and technical publications that might support aeronautics and space research and development. If you have prepared relevant reports (other than those that you will transmit to NASA, DoD, or DOE through the usual contract- or grant-reporting channels), please send them for consideration to the NASA Scientific and Technical Information Facility, P.O. Box 8757, B.W.I. Airport, Maryland 21240.

Reprints of journal articles, book chapters, and conference papers are also welcome. These will be considered for announcement in *STAR's* companion journal, *International Aerospace Abstracts*.

You may specify a particular source to be included in a report announcement if you wish; otherwise the report will be placed on public sale at the National Technical Information Service. Copyrighted publications will be announced but not distributed or sold.

PURCHASE OF *STAR*

The semimonthly issues are available for sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.

PUBLISHED BY:

UNITED STATES GOVERNMENT
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
SCIENTIFIC AND TECHNICAL INFORMATION BRANCH
Scientific and Technical Aerospace Reports, Volume 22, is prepared by the NASA Scientific and Technical Information Facility operated for the National Aeronautics and Space Administration by PRC Government Information Systems.

The Administrator of the National Aeronautics and Space Administration has determined that the publication of this periodical is necessary in the transaction of the public business required by law of this Agency. Use of funds for printing this periodical has been approved by the Director of the Office of Management and Budget through February 28, 1985.

US ISSN 0036-8741

SPECIAL NOTICE

The abstract sections of the semimonthly *STAR* journals can be bound separately. Individual abstracts can be located readily be means of the page numbers given at each entry, e.g., p 2655. To assist the user in binding *STAR* Volume 22, four (4) title pages are included in the back of Part I of the Annual Index.

For sale by the Superintendent of Documents, U.S. Government Printing Office Washington, D.C. 20402

VOLUME 22 NUMBERS 1-24

Scientific and Technical Aerospace Reports

Annual Index (Part I) January – December 1984

TABLE OF CONTENTS

Page

PART I

Introduction iii
Subject Index A-1

PART II

Introduction iii
Personal Author Index B-1
Corporate Source Index C-1
Contract Number Index D-1
Report/Accession Number Index E-1

INTRODUCTION

WHAT STAR ANNUAL INDEXES ARE

This Annual Index is an edited consolidation of the indexes to the individual issues of *Scientific and Technical Aerospace Reports (STAR)* for the calendar year 1984 (Volume 22 Numbers 1 through 24). For the convenience of the user, it is divided into two parts, each bound separately. Part I contains the Subject Index. Part II contains the Personal Author Index, Corporate Source Index, Contract Number Index, and Report/Accession Number Index. The Annual Index supersedes the semimonthly indexes previously issued during 1984.

Each entry in this index includes a group of identifying numbers in the following form: 22 p 3530 N84-32350. The first two digits (22) identify the issue in which the document was announced. The "p" and the four digits that follow (3530) refer to the page number, in the designated issue, on which the abstract of the document appears. The next group of numbers (N84-32350) is the NASA Accession Number, a unique identification number assigned by NASA to each document that was acquired, indexed, and announced in *STAR* during the year.

In addition to these identifying numbers each entry in the Subject Index contains a title or title and title extension. Each entry in the Personal Author and Corporate Source Indexes contains the title of the document.

At the beginning of each index in this cumulation, a typical listing is illustrated with each of its elements identified to assist the reader in using the different types of index entries.

HOW TO USE THE SUBJECT INDEX

Subject terms in this cumulative index are arranged alphabetically, and are supplemented with cross-references which are intended to serve as directions that will enable the user to modify, enlarge, or narrow his search in accordance with his specific interests. The subject headings have been selected from the latest revision of the *NASA Thesaurus*. Two types of cross-references are used:

1. Use (U) references direct the user to alternate headings under which material on the subject may be found. For example:

   ANNULAR JETS
   U ANNULAR FLOW
   U JET FLOW
   COLUMBIAN
   U NIOBIUM

2. Narrower Term (NT) references refer the user to more specific headings in the same subject area, under which additional material on the subject may be found. For example:

   EMISSION
   NT ELECTRON EMISSION
   NT NEUTRON EMISSION
   NT THERMAL EMISSION

Finally, a searcher should use the titles and title extensions in the index to narrow further his quest for particular items. This is because subject terms can readily refer to more than one class of document. For example:

CATHODES
Cesium plasma cathodes as sources of high intensity electron beams
Cathode material testing in electrochemical half cells

This illustrates a case where two references on different topics are listed under the same subject term.

HOW TO USE THE PERSONAL AUTHOR INDEX

All personal authors identified in the abstract-section citations in the individual *STAR* issues appear in this index. Differences in transliteration schemes may require multiple searching of the index for variants of an author's name. For example:

EMELIANOV, M. D.
YEMELYANOV, M. D.

HOW TO USE THE CORPORATE SOURCE INDEX

The corporate source index entries are abridged versions of the corporate sources used in the abstract-section citations in the individual issue supplements. The corporate source supplementary (organizational component) does not appear in the index. For example:

PRINCETON UNIV., N.J. DEPT. OF CHEMICAL ENGINEERING.
(Corporate source at citation)
PRINCETON UNIV., N.J.
(Corporate source index entry)

HOW TO USE THE CONTRACT NUMBER INDEX

All contract numbers that are identified in the abstract-section citations in the individual *STAR* issues appear in this index. Changes by agencies in the style in which contract numbers are presented may require multiple searching for variants. For example:

AF 33(615)-67-C-1758
F33615-67-C-1758

HOW TO USE THE REPORT/ACCESSION NUMBER INDEX

All report numbers that have been assigned by the corporate source, monitoring activity, or cataloging activity appear in this index. Variations in initial input may result in different report number series. For example:

TP-924
ONERA-TP-924

A COMPREHENSIVE INFORMATION SERVICE

The National Aeronautics and Space Administration makes the results of worldwide research and development activities in aeronautics, space, and supporting disciplines promptly available to participants in its programs. NASA's scientific and technical information system now contains over two million documents, which are abstracted, indexed, and obtained through retrieval and dissemination services. These services which include the abstract journal, *Scientific and Technical Aerospace Reports (STAR),* are described fully in a bulletin, *The NASA Scientific and Technical Information System ... and How to Use It,* available at no charge from the NASA Scientific and Technical Information Facility, P.O. Box 8757, B.W.I. Airport, Maryland 21240.

AVAILABILITY OF DOCUMENTS

Information concerning the availability of documents announced in the *STAR* issues covered in this index is found in the Introduction to the most currently issued semimonthly issue.

PUBLIC COLLECTIONS OF NASA DOCUMENTS

DOMESTIC: NASA and NASA-sponsored documents and a large number of aerospace publications are available to the public for reference purposes at the library maintained by the American Institute of Aeronautics and Astronautics, Technical Information Service, 555 West 57th Street, 12th Floor, New York, New York 10019.

EUROPEAN: An extensive collection of NASA and NASA-sponsored publications is maintained by the British Library Lending Division, Boston Spa, Wetherby, Yorkshire, England for public access. The British Library Lending Division also has available many of the non-NASA publications cited in *Star*. European requesters may purchase facsimile copy or microfiche of NASA and NASA-sponsored documents, those identified by both the symbols # and * from ESA - Information Retrieval Service European Space Agency, 8-10 rue Mario-Nikis, 75738 Paris CEDEX 15, France.

FEDERAL DEPOSITORY LIBRARY PROGRAM

In order to provide the general public with greater access to U.S. Government publications, Congress established the Federal Depository Library Program under the Government Printing Office (GPO), with 50 regional depositories responsible for permanent retention of material, inter-library loan, and reference services. Over 1,300 other depositories also exist. A list of the regional GPO libraries appears on the inside back cover.

Typical Subject Index Listing

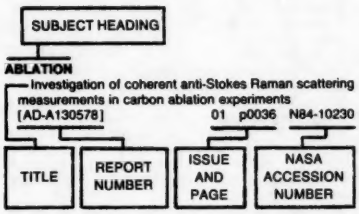

The subject heading is the key to the subject content of the document. Titles, issues, page numbers, report numbers, and accession numbers of pertinent documents are provided under each subject heading. When the title is insufficiently descriptive of the document content, a title extension has been added, separated from the title by three hyphens. The report number helps to indicate the type of document cited (e.g., NASA report, translation, NASA contractor report). The issue and page identify the *STAR* issue in which the document was announced and the page number on which the citation appears. The accession number denotes the number by which the citation is identified on that page. The titles are arranged under each subject heading in ascending accesssion number order. The subject headings have been selected from the latest revision of the *NASA Thesaurus* (NASA SP-7051).

A

A STARS
A study of A- and B-type stars in the southern galactic halo 04 p0618 N84-14077
The interstellar absorption in the direction of some nearby A stars 24 p3972 N84-35155
Search for chromospheric indicators in A dwarf stars 24 p3974 N84-35169
The Mg 2 lines in A dwarf stars 24 p3974 N84-35170
The search for superionization lines in A dwarf stars 24 p3975 N84-35171
IUE spectra of three A0 V stars rotating close tc their break-up velocity: HD 119921, HD 129685, HD 181296 24 p3975 N84-35172

A-6 AIRCRAFT
Development of the A-6E/A-6E TRAM/KA-6D NATOPS (Naval Air Training and Operating Procedures Standardization) calculator aided performance planning system (NCAPPS) [AD-A138897] 14 p2186 N84-24100
Development of lateral-directional equivalent system models for selected U.S. Navy tactical aircraft [AD-A141672] 19 p2968 N84-28810

A-7 AIRCRAFT
Development and flight test evaluation of an analytical model of the air-to-air tracking task [AD-A138058] 12 p1772 N84-21555
Reconfigurable digital control laws for the A-7D DIGITAC 2 aircraft with failed primary control surfaces [AFIT/GE/EE/82D-59] 15 p2254 N84-24535
Development of lateral-directional equivalent system models for selected U.S. Navy tactical aircraft [AD-A141672] 19 p2968 N84-28810

A-10 AIRCRAFT
Low altitude simulator training: A-10 aircraft [AD-A130794] 01 p0016 N84-10106

A-300 AIRCRAFT
Long term in-service evaluation of CFRP components (spoilers) on Airbus A300, phase 1 [BMFT-FB-W-83-028] 10 p1429 N84-19344
Access to maintenance via Aircraft Integrated Data System (AIDS): Future aspects of the expanded AIDS 17 p2585 N84-26567
Analysing redundant flight path data on two Airbus A-300 aircraft 17 p2586 N84-26577

ABDOMEN
Prediction of vomiting in dogs exposed to radiation with shielding of midabdomen 02 p0261 N84-11710

ABEL FUNCTION
Kato's class field theory and abelian coverings of surfaces 14 p2210 N84-24266

ABERRATION
Technical support for AXAF [NASA-CR-170950] 06 p0917 N84-15959
Deconvolution of aberrations in optical systems [AD-A138096] 12 p1907 N84-22425
The Spot of Arago and its role in aberration analysis [AD-A141983] 20 p3299 N84-30952
Optical support Hartmann sensor optical simulation [AD-A142525] 20 p3300 N84-30955
Generation and application of finely focused low energy electron beams 21 p3492 N84-32129
The correction of aberrations computed in the aperture plane of multifrequency microwave radiometer antennas [NASA-TM-86090] 22 p3581 N84-32679

ABILITIES
CAD/CAM: Influencing the skilled trades [DE83-015188] 01 p0125 N84-10812
Cognitive components underlying the digit symbol test [PB83-250464] 04 p0574 N84-13779
Performance appraisal revisited [AD-A132841] 06 p0932 N84-16059
Estimation of two-parameter logistic item response curves [AD-A137223] 10 p1569 N84-20280
The event related brain potential as an index of information processing, cognitive activity, and skill acquisition: A program of basic research [AD-A137779] 11 p1702 N84-21100
Initial validation of a functional age profile for aviators [AD-P003271] 18 p2907 N84-28436
Variability of practice and the transfer of training of motor skills [AD-A142896] 21 p3459 N84-31942

ABLATION
Investigation of coherent anti-Stokes Raman scattering measurements in carbon ablation experiments [AD-A130578] 01 p0036 N84-10230
Development of a focussing-crystal spectrograph for X-rays from laser-fusion targets [DE83-012802] 01 p0148 N84-10973
Particle impact erosion. Volume 3. User's manual chamber flowfield code (CFC) and Charring Material Ablation-Erosion (CMAE) code [AD-A131007] 02 p0186 N84-11208
Inertial effects in laser-driven ablation [DE83-016941] 03 p0380 N84-12478
Vortex shedding and laser ablation [DE84-000301] 04 p0541 N84-13565
Inertial effects in laser-drive ablation [DE84-000071] 04 p0542 N84-13566
Ablation effects in oxygen-lead fragmentation at 2.1 GeV/nucleon [NASA-TM-85704] 07 p1074 N84-16977
Radome analysis [AD-A136805] 10 p1481 N84-19677
An abrasion-ablation model description of galactic heavy-ion fragmentation [NASA-TP-2305] 12 p1903 N84-22396
Space nuclear safety program [DE84-003558] 12 p1904 N84-22398
A novel X-ray backlighting method for Rayleigh-Taylor instability measurements on ablatively driven targets [AD-A138644] 13 p1993 N84-22937
Ablation accelerator (ABLAC) as driver for impact fusion [IPPJ-668] 15 p2410 N84-25483

ABLATIVE MATERIALS
Characteristics of various types of ablative materials with associated naval applications [AD-A133882] 05 p0645 N84-14243
An assessment of ablative organotin antifouling (AF) coatings [AD-A134019] 05 p0658 N84-14326
An investigation of the thermodegradation of ablative organic silicon resin [AD-A135546] 08 p1137 N84-17397
Nonlinear modeling and initial condition estimation for identifying the aerothermodynamic environment of the Space Shuttle Orbiter [AD-A136928] 10 p1436 N84-19391
Thermal evaluation of selected ablative materials in transient low heat flux environments [AD-A139441] 14 p2130 N84-23768
Low-cost insulator [AD-A139903] 15 p2284 N84-24709
The measurement of heat transfer and temperature distributions in hypersonic testing 16 p2441 N84-25662
Multidirectional composites in ballistic and aerospace vehicles [SNIAS-832-430-102] 16 p2458 N84-25759

ABM
U APOGEE BOOST MOTORS

ABNORMALITIES
Main electrocardiographic abnormalities in the medical examination of flying personnel 11 p1699 N84-21083

ABORTED MISSIONS
Exploration of dose-response techniques with some applications to a simulation problem [AD-A138029] 12 p1880 N84-22252

ABRASION
Erosion and transport of eolian materials on Mars [NASA-CR-174569] 02 p0308 N84-12019
Wear during rubbing of a sintered metal powder body [AD-A132354] 04 p0544 N84-13584
Abrasive properties of ferroalloys [BLL-M-35416-(5828.4)] 07 p0973 N84-16306
Abrasion by aeolian particles: Earth and Mars [NASA-CR-3788] 11 p1628 N84-20654
An abrasion-ablation model description of galactic heavy-ion fragmentation [NASA-TP-2305] 12 p1903 N84-22396
Role of abrasion in the optical polishing of metals and glass [DE84-005737] 13 p2043 N84-23259
Status and direction of tribology as a science in the 80's. Understanding and prediction 14 p2152 N84-23892
Importance of properties of solids to friction and wear behaviour 14 p2153 N84-23895
Antiwear additive mechanicsms in sliding contacts 14 p2154 N84-23906
Abrasive wear of steel during sliding or rolling [BLL-CE-TRANS-8003-(9022.09)] 19 p2991 N84-28956
Impact dynamics research on composite transport structures 20 p3146 N84-29975
Surface property modification of silicon [NASA-CR-173952] 23 p3788 N84-34023

ABRASION RESISTANCE
Heat sealable, flame and abrasion resistant coated fabric [NASA-CASE-MSC-18382-2] 05 p0658 N84-14324
Abrasion-erosion resistance of concrete made with two aggregates, Stonewall Jackson Dam, West Virginia [AD-A133432] 06 p0822 N84-15357
The wiper abrasion and rain erosion resistance of transparent materials and coatings for aircraft glazing [AD-P003227] 17 p2596 N84-26640
Chemical vapor deposition and reactive diffusion of boron on beryllium [AD-D011043] 19 p2995 N84-28976
Effects of surface flaws on impact resistance of uncoated polycarbonate [AD-A141364] 19 p2998 N84-28998

Design of an abrasion test under high stress. Application to the characterization of manganese steel quality assurance
[CETIM-12-D-081] 21 p3415 N84-31659
Microstructure, mechanical properties and two-body abrasive wear resistance of an Fe-3Cr-C based ultra-high strength steel
[DE84-014605] 22 p3556 N84-32520

ABRASIVES

Genera use of CBN in tool grinding: Technology and economics
[CSIR-TRANS-1688] 01 p0056 N84-10367
New profilable bond system for diamond and CBN grinding wheels
[CSIR-TRANS-1707] 06 p0813 N84-15294
Air-jet milling of grinding materials
[NASA-TM-77366] 09 p1291 N84-18430
Abrasive tip treatment for use on compressor blades
[NASA-CR-174666] 15 p2343 N84-25065
The reduction of life-cycle costs through continuing acrylic maintenance
[AD-P003224] 17 p2596 N84-26637
New sapphire and ruby components and their manufacture using diamond abrasives
[CSIR-TRANS-1734] 21 p3375 N84-31419
Grinding with Borazon: Progress and rewards
[CSIR-TRANS-1716] 21 p3375 N84-31420
Internal grinding of high-speed steels: Shorter processing times with boron nitride grinding tools
[CSIR-TRANS-1719] 21 p3376 N84-31421
Coatings on diamond and CBN abrasives (review of inventions)
[CSIR-TRANS-1742] 22 p3557 N84-32525
Development and testing of glass coatings for Hexanite-A powders
[CSIR-TRANS-1747] 22 p3557 N84-32527
Economical grinding of steel and sintered carbides using superhard abrasives and high temperature-resistant bonds
[CSIR-TRANS-1744] 22 p3563 N84-32562

ABSORBENTS

Absorbent product and articles made therefrom
[NASA-CASE-MSC-18223-2] 02 p0269 N84-11758
Problems encountered in connection with the removal of small concentrations of noxious gases by the use of liquid absorbents
[BLL-OA-TRANS-3182-(6196.3)] 09 p1277 N84-18337
Development of new absorber coatings for high temperature applications
[BMFT-FB-T-84-033] 16 p2471 N84-25837
Iron nitrate and MON-3 nitrogen tetroxide 20 p3136 N84-29909
Adsorbent regenerator
[DE84-012969] 22 p3549 N84-32468

ABSORBERS (MATERIALS)

Evaluation of selective solar-absorber surfaces, phase 2
[DE84-000067] 04 p0559 N84-13685
Mean excitation energies for stopping powers in various materials using local plasma oscillator strengths
[NASA-TP-2271] 11 p1760 N84-21485
Bistable operation of two semiconductor lasers in an external cavity: Rate-equation analysis 14 p2233 N84-24400
Precise measurements of bistability in a CO/sub 2 laser with intracavity saturable absorber 14 p2238 N84-24431

ABSORPTANCE

Accurate evaluation of homogenous and nonhomogeneous gas emissivities
[NASA-CR-173307] 09 p1277 N84-18340
Measurement of alpha/epsilon ratio by using a Sun pointing satellite Tansei 4 10 p1446 N84-19447
Measurement of incidence angle dependence of solar absorptance — spacecraft materials 10 p1447 N84-19452
Comparison of JFTOT (Jet Fuel Thermal Oxidation Tester) and absorbance methods for determining jet fuel thermal stability
[AD-A136673] 15 p2304 N84-24825
Microwaves and human leukocyte function: Exposure of human mononuclear leukocytes to microwave energy pulse-modulated at 16 Hz or at 60 Hz
[AD-A141071] 19 p3085 N84-29443
Study of emission spectrum of tea CO2 lasers with intracavity absorber 21 p3486 N84-32094

ABSORPTION

Laser-plasma interaction at 10.6 microns
[DE84-001038] 04 p0541 N84-13560
Focusing X-ray monochromator for EXAFS studies in the energy range 4-30 keV
[DE84-001903] 05 p0685 N84-14505
Variation of laser absorption with plasma scalelength in long-scalelength plasmas
[DE84-002743] 06 p0921 N84-15991
High-temperature direct absorption research
[DE84-000019] 07 p1003 N84-16505
Collision widths of CO lines broadened by water vapor at elevated temperatures
[AD-A136121] 09 p1323 N84-18644
Plasma magnetic field measurement by intracavity absorption
[DE84-005152] 10 p1500 N84-19806
Optical bistability in four-level nonradiative dyes 14 p2237 N84-24425
Investigation of sol-gel antireflection coatings
[DE84-008381] 19 p3030 N84-29218
Measurement of specific absorption rate in human phantoms exposed to simulated Air Force radar emissions
[AD-A143570] 22 p3631 N84-33007

ABSORPTION BANDS

U ABSORPTION SPECTRA

ABSORPTION COEFFICIENT

U ABSORPTIVITY

ABSORPTION COOLING

Analysis of a solar heat pipe heating and absorption cooling system 01 p0076 N84-10496
A general computer model for predicting the performance of gas sorption refrigerators 06 p0820 N84-15349
LaNi5 hydride cryogenic refrigerator test results 06 p0821 N84-15350

ABSORPTION CROSS SECTIONS

Process for isotope separation
[DE84-001983] 06 p0844 N84-15507

ABSORPTION SPECTRA

NT FRAUNHOFER LINES

Advanced diagnostics and instrumentation for chemically reactive flow systems
[AD-A131814] 03 p0346 N84-12251
Infrared characteristics of gas plumes
[AD-A131796] 03 p0349 N84-12269
Infrared-laser spectroscopy using a long-pathlength absorption cell
[DE83-014197] 03 p0381 N84-12480
Optical properties and correlation energy of defects in a-Ge:H
[DE83-016697] 03 p0455 N84-12993
EXAFS study of Metglas 2605 CO
[DE84-001203] 04 p0503 N84-13299
Effects of compensation on light-induced metastable defects in aSi:H
[DE83-016696] 04 p0558 N84-13680
Computed survey spectra of 2-5 micron atmospheric absorption
[AD-A132526] 04 p0563 N84-13708
Ionization equilibrium in isolated H 2 regions 04 p0619 N84-14086
Physics of the synchrotron model of cosmic gamma-ray bursts
[DE84-000917] 04 p0622 N84-14104
EXAFS studies of the metallic glass La80Ga2C
[DE84-002022] 06 p0811 N84-15278
Process for isotope separation
[DE84-001983] 06 p0844 N84-15507
Experimental picosecond transient spectra for i2 photodissociation in liquids
[AD-A134371] 07 p0969 N84-16282
Gas phase spectroscopy near the carbon K-edge
[DE84-002876] 07 p0971 N84-16294
physico-chemical investigation of some areas of fundamental significance to biophysics
[DE83-017404] 07 p1043 N84-16761
Electronic spectra from molecular dynamics: A simple approach
[AD-A134325] 07 p1071 N84-16961
Species-specific densities of states of ga and as in the chemisorption of H2O on GaAs(110)
[AD-A134344] 07 p1080 N84-17022
Theoretical studies of solar-pumped lasers
[NASA-CR-173283] 08 p1164 N84-17576
The retrieval of atmospheric constituent mixing-ratio profiles from solar absorption spectra
[NASA-CR-173303] 08 p1186 N84-17730
Effects of systematic errors on the mixing ratios of trace gases obtained from occulation spectra
[NASA-CR-175371] 08 p1231 N84-18046
Applications of photoacoustic techniques to the study of jet fuel residue
[NASA-CR-173322] 09 p1290 N84-18420
Radiative collisional laser feasibility demonstration
[AD-A135793] 09 p1322 N84-18640
The 12 micron band of ethane: A spectral catalog from 765 cm(-1) to 900 cm(-1)
[NASA-TM-85108] 10 p1454 N84-19493
Atlas of high resolution infrared spectra of carbon dioxide
[NASA-TM-85764] 10 p1576 N84-20325
A laboratory manual for the determination of metals in water and wastewater by atomic absorption spectrophotometry
[CSIR-TECH-GUIDE-K63] 11 p1628 N84-20653
A study of the relation between crop growth and spectra reflectance parameters 12 p1833 N84-21949
Passive infrared ranging
[AD-A138066] 12 p1907 N84-22424
Laboratory infrared studies relevant to Io: A satellite to the planet Jupiter
[NASA-CR-173378] 12 p1922 N84-22522
Infrared astronomy research and high altitude observations
[NASA-CR-173526] 13 p2070 N84-23413
Publications resulting from Infrared Astronomy Research and High Altitude Observations
[NASA-CR-173525] 13 p2070 N84-23414
V 505 Monocerotis: New binary shell star 15 p2423 N84-25553
Computer programs for processing of spectra 15 p2423 N84-25556
Possibilities of infrared spectroscopy with tunable semiconductro lasers
[ONERA-NT-1983-4] 16 p2462 N84-25782
Optical absorption and thermoluminescence in MgO:Ni and MgO:Li irradiated at room temperature
[JEN-556] 16 p2561 N84-26427
Simultaneous retrieval of atmospheric temperatures and ray paths from occultation spectra
[NASA-CR-173649] 17 p2726 N84-27354
Ion photofragment spectroscopy: Structure and dissociation of molecular ions
[AD-A141196] 18 p2811 N84-27846
Gas-liquid correlation of ionization energies
[AD-A141255] 18 p2930 N84-28578
Spectroscopy of the 4.6 - 4.7 micron interstellar absorption features 18 p2948 N84-28690
Experiments on chemical and physical evolution of interstellar grain mantles 18 p2948 N84-28693
Origins of the 3.28 micron dust emission feature 18 p2949 N84-28698
Study of strong electrolytes by X-ray spectroscopy at the c1 k-edge
[AD-A142225] 19 p2989 N84-28943
Semiconductors investigated by time resolved Raman absorption and photoluminescence spectroscopy using femtosecond and picosecond laser techniques
[AD-A141381] 19 p3029 N84-29209
Optical generation and detection of acoustic pulse profiles in gases for novel ultrasonic absorption spectroscopy
[AD-A141876] 19 p3104 N84-29720
Trace analysis in quartz
[AD-A142425] 20 p3148 N84-29988
The blue-green spectrum of gaseous Pb2 wave numbers and constants of the FOu+ - XOg+ system
[USIP-84-06] 20 p3151 N84-30009
Stratospheric NO and NO2 profiles at sunset from analysis of high-resolution balloon-borne infrared solar absorption spectra obtained at 33 deg N and calculations with a time-dependent photochemical model
[NASA-TM-86285] 20 p3240 N84-30566
Design of short-wave absorption lines 21 p3377 N84-31433
Hydrogen-bond energies of dimer formation and UV absorption spectra of mono-methyl substituted 2-pyridones 21 p3477 N84-32040
Dynamics of large molecules and molecular clusters
[AD-A143386] 22 p3560 N84-32542
X-ray spectroscopy of solids under pressure
[DE84-013790] 22 p3665 N84-33237
Observations of the ultraviolet spectra of helium (DB) white dwarfs and a study of the ultraviolet spectra of white dwarfs containing carbon
[NASA-CR-173889] 22 p3677 N84-33310
The interstellar absorption in the direction of some nearby A stars 24 p3972 N84-35155
Interstellar and nebular absorption lines in planetary nebulae 24 p3973 N84-35162
The 22 GHz continuum and spectral index maps of the galactic center region
[INPE-3275-PRE/599] 24 p3987 N84-35239

ABSORPTION SPECTROSCOPY

NT OPTOGALVANIC SPECTROSCOPY

Polymer degradation on reflecting metal films: Fourier transform infrared (FTIR) reflection-absorbance studies
[DE83-012129] 03 p0404 N84-12641
H Division: Materials physics
[DE84-001083] 07 p1068 N84-16939
Manual of analytical methods for radiobioassay
[DE84-003978] 08 p1126 N84-17318
Combustion gas spectroscopy using tunable lasers
[DE84-004976] 08 p1126 N84-17320
Atomic absorption spectrophotometric methods for the determination of phosphorous and silicon in steel
[DE84-002826] 09 p1286 N84-18395

Photoacoustic Absorption Spectroscopy (PAS) measurements
[AD-A136591] 09 p1388 N84-19067
Electronic spectra of condensed phase under shock conditions
[AD-A137531] 11 p1652 N84-20785
Millimeter and submillimeter wave research: Spectroscopy, energy transfer and techniques
[AD-A137884] 11 p1663 N84-20853
Optical gas temperature measurement in gas turbines
[PNR-90174] 13 p1933 N84-22572
Enhanced solar energy collection in porphyrin based photoconversion schemes
[DE84-006882] 14 p2173 N84-24015
Many-body processes in atomic and molecular physics
[DE84-007338] 15 p2406 N84-25441
Spectroscopy of the 4.6 - 4.7 micron interstellar absorption features 16 p2570 N84-26492
Spectroscopy of the 3.3 and 3.4 micron dust emission features — cosmic dust 18 p2948 N84-28694
Infrared absorption spectroscopy with color center lasers
[DE84-008812] 19 p2990 N84-28945
Optical generation and detection of acoustic pulse profiles in gases for novel ultrasonic absorption spectroscopy
[AD-A141876] 19 p3104 N84-29720
Quality engineering and control
[DE84-011603] 20 p3150 N84-30001
Characterization of infrared optical properties of transparent materials
[AD-A143988] 23 p3825 N84-34257

ABSORPTIVE INDEX
U ABSORPTIVITY

ABSORPTIVITY
Remote sensing applications of pulsed photothermal radiometry
[AD-A130154] 01 p0086 N84-10563
Aethalometer: An instrument for the real-time measurement of optical absorption by aerosol particles
[DE84-000400] 04 p0538 N84-13538
Computed survey spectra of 2-5 micron atmospheric absorption
[AD-A132526] 04 p0563 N84-13708
High precision material study at near millimeter wavelengths
[AD-A133575] 06 p0918 N84-15966
Subbarrier absorption in a stationary superlattice
[NASA-TM-77387] 10 p1587 N84-20402
A reverberation room round robin on the determination of absorption coefficients
[NRC/CNR-TT-2079] 12 p1898 N84-22364
Intensity and absorbed-power distribution in a cylindrical solar-pumped dye laser
[NASA-TP-2321] 14 p2150 N84-23878
Zeeman coherence effects in absorptive polarization bistability 14 p2235 N84-24412
Critical slowing-down in microwave absorptive bistability 14 p2237 N84-24429
Causes and prevention of systematic deviations from true values of absorption coefficients measured in reverberation rooms
[NRC/CNR-TT-2080] 15 p2403 N84-25423
The optical spectra of aerosols
[AD-A141571] 19 p3104 N84-29719
Visualization for a free jet by a laser induced fluorescence method and its structure 20 p3169 N84-30120
Performance tests of the Solar Steam, Incorporated, 9-m deep-dish solar concentrating collector
[DE84-000079] 20 p3235 N84-30535
Spray pyrolysis of cadmium sulfide/copper indium selenide cells
[DE84-004491] 20 p3235 N84-30537
Scattering properties of a moving dielectric object
[AD-A142845] 21 p3386 N84-31489
Improved heat exchanger for electrothermal devices
[NASA-CASE-LEW-14037-1] 22 p3542 N84-32425

ABSTRACTS
Center for electronics and electrical engineering technical progress bulletin covering signals and systems program, April 1982 - September 1982
[PB83-241158] 03 p0369 N84-12405
NASA Space Biology Program. Eighth annual symposium's program and abstracts
[NASA-CP-2299] 09 p1351 N84-18829
Rule-based statistical calculations on a database abstract
[AD-A136638] 09 p1404 N84-19172
The Shock and Vibration Digest, volume 15, no. 10
[AD-A136898] 10 p1506 N84-19855
Bibliography and abstracts of papers pertaining to applied mathematics
[AD-A137823] 11 p1750 N84-21420
Research activities of the Applied Mathematics Group
[AD-A137838] 11 p1750 N84-21422
The 16th European Conference on Laser Interaction With Matter, Book of Abstracts
[AD-A136316] 12 p1821 N84-21868
The Shock and Vibration Digest, volume 16, no. 3
[AD-A139707] 13 p2000 N84-22976
Mechanized contract document preparation and abstract system
[AD-P002750] 13 p2050 N84-23297
Biological effects of nonionizing electromagnetic radiation. Volume 8, Number 1: A digest of current literature
[AD-A139296] 15 p2380 N84-25283
Summary of research, academic departments, 1982-1983
[AD-A140059] 15 p2416 N84-25507
Proceedings of the 2nd International Workshop on Statistical Database Management
[DE84-005886] 15 p2418 N84-25522
Technology for large space systems: A bibliography with indexes
[NASA-SP-7046(10)] 16 p2454 N84-25736
Progress report abstracts, Oceanic Biology Program
[AD-A140840] 17 p2737 N84-27390
Bibliography of Supersonic Cruise Research (SCR) program from 1980 to 1983
[NASA-RP-1117] 18 p2785 N84-27674
Bibliography of in-house and contract reports, supplement 12
[AD-A141778] 19 p3041 N84-29298
Annotated bibliography of human factors laboratory reports (1945-1968): Supplement 4, 1979-1983
[AD-A142141] 19 p3071 N84-29481
Abstracts of ARI research publications FY 1983
[AD-A141440] 19 p3115 N84-29796
Proceedings of the DOE Physical and Chemical Energy Storage Annual Contractors' Review Meeting
[DE83-017536] 20 p3236 N84-30540
Inverse scattering problem
[AD-A142634] 20 p3291 N84-30894
Environmental Research Laboratories publication abstracts, FY 1983
[PB84-189323] 21 p3450 N84-31892
USAFSAM (USAF School of Aerospace Medicine) review and analysis of radiofrequency radiation bioeffects literature
[AD-A142961] 21 p3453 N84-31912
Summer faculty fellowship program, 1984
[NASA-CR-172409] 21 p3507 N84-32221
European scientific notes, Volume 38, Number 7
[AD-A143238] 22 p3674 N84-33287
Scientific research abstracts in Republic of China, 1983 24 p3955 N84-35038

ABUNDANCE
Copernicus observational searches for OH and H2O in diffuse clouds
[NASA-CR-170601] 02 p0305 N84-12004
An abundance analysis of the cool barium stars 04 p0620 N84-14087
The 182-Hf: A new short-lived r-process chronometer
[DE83-015698] 05 p0764 N84-15009
Detection of elements in biomedical fluids by laser-induced breakdown spectroscopy
[DE84-003838] 08 p1126 N84-17319
The isotopic composition of energetic particles emitted from a large solar flare 08 p1245 N84-18140
Chemical abundances in old open and metal-rich globular clusters in the galaxy 16 p2577 N84-26539
Abundances in galactic H2 regions, 3: G25.4-0.2, G45.5+0.06, M8, S159 and DR22
[NASA-TM-85962] 17 p2774 N84-27616
Elemental advances of ultraheavy cosmic rays
[NASA-CR-173650] 17 p2781 N84-27658
The ionization structure of planetary nebulae V NGC 3242
[NASA-CR-173914] 22 p3679 N84-33322
Identification of gamma-ray lines observed from SS433
[DE84-013629] 22 p3681 N84-33335
Pioneer 10 and Voyager observations of the interstellar medium in scattered emission of the He584 A and H Lya 1216 A lines
[NASA-CR-173931] 23 p3840 N84-34361
Interstellar chlorine abundance: Results and implications of a large-scale survey 24 p3973 N84-35159
The interstellar media in the Scorpius-Ophiuchus region 24 p3973 N84-35161
An upper limit to the Beryllium abundance in the population 2 star HD 140283 from a high resoluion IUE spectrum 24 p3974 N84-35167
Spectral analysis of helium poor hot subdwarfs 24 p3976 N84-35181
An analysis of the helium-weak stars HD 144334 24 p3976 N84-35182
Limb-darkening and metal abundances in the sdOB primary of the eclipsing binary LB 3459 (AA Dor) 24 p3976 N84-35183
The nitrogen abundance in WC stars 24 p3977 N84-35192
The hydrogen-deficient irregular variable star V348 SGR 24 p3978 N84-35200
Carbon and nitrogen abundances in field dwarf stars 24 p3986 N84-35236
Temperature and elemental abundances in the Abell cluster A 576 derived from X-ray observations
[NASA-TM-85103] 24 p3987 N84-35238

AC (CURRENT)
U ALTERNATING CURRENT

AC GENERATORS
Three-phase, high-voltage, high-frequency distributed bus system for advanced aircraft 01 p0010 N84-10058
Coupling an induction motor type generator to ac power lines — making windmill generators compatible with public power lines
[NASA-CASE-MFS-25302-2] 23 p3734 N84-33660
Low frequency ac waveform generator
[DE84-014310] 23 p3743 N84-33726
Superconducting AC generators
[BMFT-FB-T-84-102] 23 p3744 N84-33737

ACCELERATED LIFE TESTS
The dicyandiamide cure of SP-250 epoxy resin accelerated by monuron
[AD-A129667] 01 p0050 N84-10320
Reliability analysis of the gradual degradation of semiconductor devices
[AD-A131375] 02 p0213 N84-11395
Long term evaluation of the effects of shale oil produced JP-4 on aircraft construction materials
[AD-A131665] 03 p0331 N84-12161
High PRF HgBr laser life testing
[AD-A132660] 05 p0686 N84-14511
Research in some applied, and the modelling aspects of, reliability theory
[AD-A133424] 06 p0855 N84-15567
Ceramic life prediction methodology - hot spin disc life program
[AD-A134783] 08 p1138 N84-17400
Computer-aided analysis of concrete strength test results
[AD-A136265] 09 p1330 N84-18686
Research on shock models, wear processes, replacement and maintenance policies
[AD-A135620] 09 p1382 N84-19028
Compatibility and accelerated aging study for Li(Si)/FeS/sub 2 thermally activated batteries
[DE84-006099] 12 p1813 N84-21818
Reliability analysis of multi-components systems
[AD-A138013] 12 p1824 N84-21890
Rank-based inference for linear models: Asymmetric errors
[AD-A138404] 12 p1894 N84-22340
Fine line electromigration. The effect of crossed thermal gradients
[AD-A138854] 13 p2046 N84-23279
Accelerated testing
[DRIC-T-7073] 15 p2346 N84-25076
Simulation of exposure of aircraft transparencies to flight line environment
[AD-P003212] 17 p2594 N84-26625
Investigation of test methods, material properties and processes for solar cell encapsulants
[NASA-CR-173748] 18 p2870 N84-28219
Analysis of lead-acid battery deep-cycle accelerated testing data
[DE84-013192] 22 p3589 N84-32736
RCA SATCOM battery in orbit performance update and accelerated life test results 23 p3738 N84-33691
Preliminary silver-hydrogen cell test results 23 p3739 N84-33697
Method and apparatus for determination of lubricant stability
[AD-D011193] 24 p3887 N84-34815

ACCELERATING AGENTS
Laser accelerators
[DE83-016123] 02 p0227 N84-11489

ACCELERATION
Inertial effects in laser-driven ablation
[DE83-016941] 03 p0380 N84-12478
Particle velocity measurements in laser irradiated foils using ORVIS
[DE83-016829] 04 p0541 N84-13563
Alternative shock characterizations for consistent shock-test specification
[DE84-000482] 04 p0549 N84-13619

ACCELERATION (PHYSICS)
NT ANGULAR ACCELERATION
NT DECELERATION
NT ELECTRON ACCELERATION
NT HIGH ACCELERATION

NT HIGH GRAVITY ENVIRONMENTS
NT IMPACT ACCELERATION
NT PARTICLE ACCELERATION
NT PLASMA ACCELERATION
NT SPIN REDUCTION
NT TRANSVERSE ACCELERATION
High-sensitivity mass spectrometry with a tandem accelerator
[DE83-017914] 03 p0350 N84-12274
Vortex shedding and laser ablation
[DE84-000301] 04 p0541 N84-13565
Technology evaluation of man-rated acceleration test equipment for vestibular research
[NASA-CR-172160] 04 p0574 N84-13781
Baseline and verification tests of the electric vehicle associates' current fare station wagon
[AD-A132549] 04 p0617 N84-14072
An alternative method of analysis for base accelerated dynamic response in NASTRAN
06 p0859 N84-15598
Perception of higher derivatives of visual motion
[AD-A139908] 06 p0888 N84-15773
Fast asynchronous level 1 pre-trigger for electrons at L = 10/sup 33 cm-2 sec-1 06 p0913 N84-15933
Design of a lateral ride comfort control system for STOL aircraft
[UTIAS-TN-247] 07 p0950 N84-16165
Statistical review of counting accelerometer data for Navy and Marine fleet aircraft from 1 January 1962 to 31 December 1982
[AD-A134289] 07 p0951 N84-16169
Effect of periodic accelerations of 5 G on kinetics of erythrocyte hemolysis in white rats
07 p1046 N84-16782
Neuronal-vascular relations in lateral geniculate body and superior colliculi of cats after exposure to accelerations 07 p1046 N84-16783
Study of vibration resonance frequencies in rats
07 p1046 N84-16784
Optimal electric drive control to suppress jerking
[BLL-M-35391-(5828.4)] 08 p1165 N84-17589
Blood flow measurements under high-G conditions: Early prediction of Gz tolerance
[AD-A134653] 08 p1200 N84-17823
Effects of motion base and g-seat cueing of simulator pilot performance
[NASA-TP-2247] 09 p1255 N84-18189
The cumulative exceedance distribution for accelerations due to turbulence encountered by a CT/4A air trainer
[AD-A135640] 09 p1258 N84-18211
Design considerations of platens for vibration testing
[AD-A135815] 09 p1332 N84-18699
The Shock and Vibration Bulletin. Part 1: Welcome, keynote address, invited papers, pyrotechnic shock, and shock testing and analysis
[AD-A134452] 10 p1507 N84-19866
Strain histories associated with stage separation systems using linear shaped charge
10 p1508 N84-19874
Effect of measurement system phase response on shock spectrum computation 10 p1509 N84-19877
Evaluation and control of conservatism in drop table shock tests 10 p1509 N84-19879
Nonlinear prediction of head movements for helmet-mounted displays
[AD-A136590] 10 p1555 N84-20192
Transmitted thrust on a large dual rail rocket sled system
[AD-A137151] 11 p1621 N84-20608
Surfatron laser-plasma accelerator: Prospects and limitations
[DE84-005497] 11 p1663 N84-20854
Optimization for vibration isolation
[AD-A137895] 11 p1668 N84-20896
Strong motion program report
[USGS-CIRC-914] 14 p2175 N84-24028
On the breakdown of acceleration waves in radiative magneto-fluids 15 p2402 N84-25415
SRB/FWC water impact: Flexible body loads test
[NASA-CR-171076] 19 p3020 N84-29147
Comparison of Rhesus monkey and baboon -G sub x acceleration experiments
[AD-A141395] 19 p3063 N84-29436
Application of the direct simulation Monte Carlo method to mass spectrometer flow
[AD-A142326] 19 p3094 N84-29647
A Bumpy Torus betatron
[AD-A141840] 19 p3107 N84-29742
Recent results of studies of acceleration of compact toroids
[DE84-008330] 19 p3109 N84-29752
Acceleration to a steady state for the Euler equations
[NASA-CR-172398] 20 p3126 N84-29852
Acceleration of ions and electrons by wave-particle interactions
[AD-A142341] 20 p3292 N84-30900
Suprathermal ions upstream of the Earth's bow shock
[DE84-012625] 21 p3444 N84-31855
Relativistic vector sub p x vector sub b acceleration of charged particles by an obliquely propagating electrostatic wave
[IPPJ-680] 21 p3500 N84-32183
An investigation of a new flight test method for measuring the performance of general aviation aircraft
22 p3534 N84-32375
Fiber optic sensor with enhanced immunity to random environmental perturbations
[AD-D011115] 22 p3656 N84-33174

ACCELERATION PROTECTION
Study of metabolic sequelae of using positive intrapulmonary pressure during exposure to accelerations 07 p1045 N84-15776
Factors affecting human tolerance to sustained acceleration
[AD-A138520] 13 p2021 N84-23101
Effects of a negative G strap on restraint dynamics and human impact response
[AD-A138642] 13 p2024 N84-23121
Design and development of an automatically controlled variable-load energy absorber
[AD-A142683] 20 p3128 N84-29868

ACCELERATION STRESSES (PHYSIOLOGY)
NT CENTRIFUGING STRESS
Study of metabolic sequelae of using positive intrapulmonary pressure during exposure to accelerations 07 p1045 N84-16776
Interactive voice technology: Variations in the vocal utterances of speakers performing a stress-inducing task
[AD-A135932] 09 p1302 N84-18514
Homeostasis in primates in hyperacceleration fields
09 p1354 N84-18852
A hazard in aerobatics: Effects of G-forces on pilots
[FAA-AC-91-61] 12 p1865 N84-22152
Motion illness: A bibliography
[AD-A139342] 15 p2379 N84-25276

ACCELERATION TOLERANCE
Hemodynamic reactions to positive intrathoracic pressure at +G sub z accelerations
02 p0259 N84-11698
Energy metalbolism enzymes in simulation of some spaceflight factors 02 p0260 N84-11704
G suit of bladderless type as a means of improving orthostatic stability after water immersion hypokinesia nd exposure to accelerations 07 p1045 N84-16775
Neuronal-vascular relations in lateral geniculate body and superior colliculi of cats after exposure to accelerations 07 p1046 N84-16783
Mathematical simulation of the cardiopulmonary system
[AD-A135460] 08 p1200 N84-17822
Homeostasis in primates in hyperacceleration fields
09 p1354 N84-18852
Methods and major findings of cardiovascular exploration involving the human centrifuge
11 p1701 N84-21097
PSC, a programmable software controller for a multiple bladder, sequentially inflatable g-suit
[AD-A138069] 12 p1868 N84-22172
Factors affecting human tolerance to sustained acceleration
[AD-A138520] 13 p2021 N84-23101
The effects of Gx, Gy and Gz forces on cone mesopic vision
[AD-A139498] 14 p2185 N84-24092
Effect of centrifuging on survival of early larvae of common frogs 15 p2377 N84-25266
Improved G-Tolerance with assisted positive pressure breathing and anti-gravity suit with ready pressure and faster filling
[FOA-A-58002-H1] 19 p3071 N84-29486
Visual field perimeter and psychomotor tracking performance measuring apparatus
[AD-D011056] 22 p3596 N84-32775

ACCELERATORS
Neutrino-oscillation experiments at Brookhaven National Laboratory
[DE83-018275] 04 p0528 N84-13476
Research and development of a plasma jet mass accelerator as a driver for impact fusion
[DE84-012940] 22 p3659 N84-33198

ACCELEROMETERS
STS-8 bet results
[NASA-CR-172257] 02 p0184 N84-11197
A detailed evaluation of the Endevco model 7302 (trade name) angular accelerometer
[AD-A134882] 08 p1162 N84-17562
Utilization of double integration methodology to determine an aircraft's vertical displacement
[AD-P002681] 11 p1658 N84-20818
An angular velocimeter for aerospace applications
[AD-P002682] 11 p1658 N84-20819
An extended range pendulous velocity gage
[AD-P002683] 11 p1658 N84-20820
Systems approach to measuring short-duration acceleration transients
[AD-P002690] 11 p1659 N84-20825
Calibration of vibration pickups at high frequencies
[AD-P002691] 11 p1659 N84-20826
Shock isolated accelerometer
[AD-P002692] 11 p1660 N84-20827
Testing techniques involved with the development of high shock acceleration sensors
[AD-P002693] 11 p1660 N84-20828
Aircraft ground vibration test instrumentation system
[AD-P002694] 11 p1660 N84-20829
Technique for modal data acquisition in remote locations using hand portable instrumentation
[DE84-005755] 12 p1819 N84-21854
Subharmonic vibrations of rotor mounted in rolling bearings 17 p2649 N84-26943
Multisensor calibration procedure for an all weather short range air defense system concept
[AD-A141337] 18 p2791 N84-27715
Automatic shock calibration of accelerometers
[AD-A141005] 18 p2844 N84-28061

ACCEPTABILITY
Onboard software testing and qualification
05 p0724 N84-14754
Spas color camera
[NASA-CR-171739] 08 p1161 N84-17559
Automated acceptance test procedures for wideband microwave synthesized signal generator testing
[AD-A134923] 08 p1162 N84-17563
Environmental qualification tests, signal conditioning unit, SD802 materials experiment
[AD-A138910] 13 p1987 N84-22897
Physiological acceptability tests of the modified SJU-5/A ejection seat for the F-18 aircraft
[AD-A139416] 14 p2103 N84-23614
PDSS/IMC qualification test software acceptance procedures
[NASA-CR-171026] 15 p2389 N84-25335
Aircraft transparency testing methodology
[AD-P003213] 17 p2594 N84-26626
Acceptance of a meal and its components: An exercise in missing data
[AD-P003852] 24 p3940 N84-34938

ACCEPTANCE
U ACCEPTABILITY

ACCEPTOR MATERIALS
Mechanism switching and trapping of Triplet-Triplet energy transfer in an orientationally disordered molecular solid
[AD-A130660] 01 p0142 N84-10931
Electroactive heterocyclic polymers
[DE83-013592] 02 p0200 N84-11305
Evaluation of gallium nitride for active microwave devices
[AD-A132988] 05 p0754 N84-14947
Electron donor-acceptor quenching and photoinduced electron transfer for coumarin dyes
[AD-A136345] 09 p1394 N84-19105

ACCESS CONTROL
Computer communications with Mauna Loa Solar Observatory
[PB84-137256] 11 p1705 N84-21114
The iNet Gateway trial 11 p1750 N84-21427
Cryptography in a communication system
[NLR-MP-82051-U] 12 p1808 N84-21787
How to use TRIX RED to format equations for REDPP and other tricks
[DE84-006328] 12 p1884 N84-22280
Protocol standards and implementation within the digital engineering laboratory computer network (DELNET) using the Universal Network Interface Device (UNID), part 1
[AD-A138481] 12 p1892 N84-22320
Concept of a secure information system consisting of the components operating system, data base, dialogue system, and applications
[BMFT-FB-DV-83-005] 12 p1920 N84-22508
Distributed and decentralized control in fully distributed processing systems
[AD-A140120] 15 p2418 N84-25520
Virtual Z-trees: A balancing technique for multiway search trees
[INPE-3093-TDL/164] 16 p2547 N84-26348
Compacted virtual search tree and addressed ordered binary trees for file organization
[INPE-3075-TDL/161] 16 p2548 N84-26349
DEC LSI-11/HP9895A software
[DE84-012412] 21 p3462 N84-31952
HEART OF GOLD: Computer routines for large sparse, least squares computations
[PB84-196492] 21 p3467 N84-31987

ACCESSORIES
All-electric accessory drive systems: Implications on engine design and performance
03 p0336 N84-12184

ACCIDENT INVESTIGATION
NT AIRCRAFT ACCIDENT INVESTIGATION
Staged collision and damage data report for accident reconstruction of fourteen (14) test vehicles (1980 - 1982 model year), volume 1
[PB83-228502] 01 p0092 N84-10598
Controls, Displays, and Information Transfer for General Aviation IFR Operations
[NASA-CP-2279] 03 p0311 N84-12029
Practical approaches in accident analysis — unconfined gas explosions 06 p0836 N84-15441
Aircrew Automated Escape Systems (AAES) In-service Usage Data Analyses, volume 2
[AD-A134834] 08 p1100 N84-17155
Weathering trials and new rigidity tests on protective helmets for motor cyclists
[ARL-STRUC-TECH-MEMO-372] 15 p2300 N84-24804
Accident surrogates for use in analyzing highway safety hazards. Volume 1: Executive summary
[PB84-174739] 16 p2477 N84-25883
Accident surrogates for use in analyzing highway safety hazards, volume 2
[PB84-174747] 16 p2478 N84-25884
Accident surrogates for use in analyzing highway safety hazards. Volume 3: Appendices A-G
[PB84-174754] 16 p2478 N84-25885

ACCIDENT PREVENTION
Crashworthy cyclic control stick
[AD-A135150] 08 p1103 N84-17176
Electrical-shock prevention. Volume 1: Protection of maintenance personnel
[PB84-102946] 08 p1206 N84-17865
Electrical-shock prevention. Volume 2: Ground-fault interrupting devices
[PB84-102953] 08 p1206 N84-17866
Electrical-shock prevention. Volume 3: Fault protection for motion-drive equipment
[PB84-102961] 08 p1206 N84-17867
Electrical-shock prevention. Volume 4: Overhead-line contact fatalities
[PB84-102979] 08 p1207 N84-17868
Analysis of electrical accident prevention countermeasures
[PB84-102987] 08 p1207 N84-17869
Railroad safety program, task 2
[NASA-CR-173598] 16 p2569 N84-26483
Protection equipment against high velocity ejections — pilot ejection
[STPA/CIN-6] 18 p2790 N84-27705
Safety training priorities
[AD-A141711] 19 p3002 N84-29026
Effect of protective gas composition on seam formation during laser welding 24 p3870 N84-34524

ACCIDENTS
NT BIRD-AIRCRAFT COLLISIONS
Bibliography of coefficient of friction literature relating to slip type accidents — slipping accidents
[PB83-243626] 03 p0359 N84-12334
Assessment of TRAC-PF1 and RELAP5/MOD1 codes with GE large-vessel blowdown test
[DE83-015384] 03 p0438 N84-12874
Studies on sodium boiling phenomena in out of pile rod bundles for various accidental situations in Liquid Metal Fast Breeder Reactors (LMFBR) experiments and interpretations 06 p0842 N84-15493
On-site survey and analysis of pyrotechnic mixer bays
[AD-A139485] 14 p2132 N84-23779
Accident surrogates for use in analyzing highway safety hazards. Volume 1: Executive summary
[PB84-174739] 16 p2477 N84-25883
Accident surrogates for use in analyzing highway safety hazards, volume 2
[PB84-174747] 16 p2478 N84-25884
Accident surrogates for use in analyzing highway safety hazards. Volume 3: Appendices A-G
[PB84-174754] 16 p2478 N84-25885
Railroad safety program, task 2
[NASA-CR-173598] 16 p2569 N84-26483
Safety and deterministic failure analyses in high-beta D-D Tokamak reactors
[DE84-012693] 21 p3500 N84-32185

ACCLIMATIZATION
NT ALTITUDE ACCLIMATIZATION
NT COLD ACCLIMATIZATION
NT HEAT ACCLIMATIZATION
Increased metabolism and dead space as components of ventilation at high altitude
[AD-A130827] 06 p0887 N84-15766
Influence of heat stress and acclimation on maximal aerobic power
[AD-A142329] 19 p3066 N84-29453
The functional condition of seamen under conditions of the southern maritime area 23 p3807 N84-34137

ACCOMMODATION
Visual accommodation trainer-tester
[NASA-CASE-ARC-11426-1] 03 p0338 N84-12193

ACCOUNTING
Guidance needed if better Freedom of Information Act costs reports are desired
[PB83-242040] 02 p0303 N84-11987
Integrated budget control using a desktop computer 05 p0717 N84-14697
Cost accounting standards: A time for government and industry action
[AD-P002767] 13 p2053 N84-23314
Paperwork Reduction Act of 1980
[S-REPT-98-479] 14 p2248 N84-24504
Results of a research study to identify historical RDTE (Research, Development, Test and Evaluation) obligations and expenditures on major Army materiel and non-materiel systems
[AD-A139326] 15 p2416 N84-25508
An analysis of naval aviation configuration status accounting
[AD-A140473] 16 p2585 N84-26460
Contract audit followup: Its impact on defense contracting
[AD-A140627] 17 p2770 N84-27587
Ada (trademark) for business and other non-DOD applications
[AD-P003425] 20 p3271 N84-30757
National Aeronautics and Space Administration's first-year implementation of the Federal Managers' Financial Integrity Act
[PB84-188770] 20 p3314 N84-31044
Accounting utility for determining individual usage of production level software systems
[NASA-CR-172414] 21 p3464 N84-31959
Cost and schedule control systems criteria for contract performance measurement, information pamphlet
[DE84-012576] 21 p3516 N84-32269

ACCRETION
U DEPOSITION

ACCRETION DISKS
Circinus X-1: A laboratory for studying the accretion phenomenon in compact binary X-ray sources
[NASA-TM-85095] 01 p0165 N84-11083
Two-dimensional accretion disk structure and stability 04 p0820 N84-14090
Ultraviolet studies of nova-like variables with the IUE
[NASA-CR-175233] 07 p1089 N84-17080
The physical nature of the continuum in active galaxies 08 p1243 N84-18128
Gamma ray line emission, nuclear destruction and neutron production in hot astrophysical plasmas. Deuterium boiler as a gamma ray source
[REPT-762] 11 p1733 N84-21301
Origin and evolution of the Saturn system 13 p2073 N84-23433
Physics and chemistry in the primitive solar nebula
[MPE-PREPRINT-21] 13 p2091 N84-23547
A high dispersion spectral analysis of three pre-main sequence stars 16 p2576 N84-26532
The emission line spectra of cataclysmic variable accretion disks 16 p2576 N84-26533
Accretion disks, precessing jets and the asymmetric emission lines of QSOs
[NASA-CR-173632] 17 p2774 N84-27613
Dwarf novae through the outburst cycle 24 p3979 N84-35203
The outbursts of dwarf novae 24 p3979 N84-35204
SS Cygni: Accretion disk morphology 24 p3979 N84-35206

ACCUMULATIONS
Conditions for inflammation of accumulated aluminum in the propellant combustion zone 13 p1947 N84-22660

ACCUMULATORS
NT ACCUMULATORS (COMPUTERS)
NT SOLAR COLLECTORS
NT SOLAR REFLECTORS
A multistage spent particle collector and a method for making same
[NASA-CASE-LEW-13914-1] 03 p0376 N84-12447
Development of mass-producible line-focus tracking concentrating solar collectors. Category 1: Collectors
[DE83-015629] 03 p0403 N84-12639
Performance of computer-designed small-size multistage depressed collectors for a high-perveance traveling wave tube
[NASA-TP-2248] 06 p0829 N84-15394
Spacelab 4: Primate experiment support hardware 15 p2348 N84-25092
Demodulator and accumulator for the high-speed data acquisition system 16 p2480 N84-25900
Secondary electron emission characteristics of ion-textured copper and high-purity isotropic graphite surfaces
[NASA-TP-2342] 19 p2997 N84-28989
Programmable signal processing device
[AD-D011109] 22 p3580 N84-32673

ACCUMULATORS (COMPUTERS)
Hierarchical cache accumulators for sequential mode estimation
[AD-A134698] 08 p1212 N84-17908

ACCURACY
Subsonic longitudinal performance coefficient extraction from shuttle flight data: An accuracy assessment for determination of data base updates 01 p0026 N84-10163
Shuttle flight pressure instrumentation: Experience and lessons for the future 01 p0026 N84-10167
Alignment telescope for Antares
[DE83-014179] 01 p0088 N84-10576
Update and review of accuracy assessment techniques for remotely sensed data
[E84-10029] 01 p0099 N84-10646
Future directions in large-scale scientific computing
[DE83-013229] 01 p0124 N84-10807
Accurate computation of divided differences of the exponential function
[AD-A130306] 01 p0132 N84-10865
The mechanism of meteorological noise
[PB83-241489] 02 p0257 N84-11681
Evaluation of a draft standard on performance specifications for health physics instrumentation
[DE83-016186] 02 p0266 N84-11750
Accuracy of external personnel dosimetry systems in mixed neutron and gamma radiation fields
[DE83-015712] 02 p0266 N84-11751
Momentum-control volumes for finite-difference codes
[DE83-007566] 02 p0282 N84-11849
Theoretical modelling of three-dimensional vortex flows in aerodynamics 03 p0324 N84-12116
Transient temperature response of strain gages, revision 1
[DE83-017514] 03 p0378 N84-12459
Analysis of subpixel registration accuracy 03 p0394 N84-12570
Progress in the scene-to-map registration investigation 03 p0394 N84-12572
Construction and verification of a finite-element method for nonisothermal flows in porous media
[DE83-017158] 04 p0536 N84-13522
Coordinate-measuring machine capability
[DE84-002014] 04 p0539 N84-13544
External versus intuitive reasoning: The conjunction fallacy in probability judgment
[AD-A131801] 04 p0574 N84-13778
Selecting a subset of regression variables so as to maximize the prediction accuracy at a specified point
[CSIR-TWISK-275] 04 p0591 N84-13903
Determining stresses in the presence of nonlinearities in interplanar spacing versus Sin squared Psi
[AD-A132365] 04 p0612 N84-14041
Bank-to-Turn cruise missile terminal guidance and control law comparison
[AD-A132595] 05 p0629 N84-14136
Investigation of small particle trajectories through turbomachinery environments 05 p0630 N84-14142
Measurement of velocity and displacement of a transverestraint testing machine
[MRL-TN-473] 05 p0683 N84-14493
Apparent thermal conductivity measurements by an unguarded technique
[DE84-001964] 05 p0685 N84-14503
Relationship of Benkelman beam deflection as measured by Florida method to those measured by AASHTO method T-256-77, P-13-79
[PB83-252973] 05 p0694 N84-14557
A comparison of NMC models (1977) on precipitation forecasts for east coast cyclogenesis 06 p0879 N84-15720
Pacific Northwest solar radiation data
[DE84-002335] 06 p0882 N84-15738
A FMCW radar ranging device for the teleoperator maneuvering system 06 p0930 N84-16045
Assessment of three-dimensional inviscid codes and loss calculations for turbine aerodynamic computations
[NASA-TM-83571] 07 p0947 N84-16142
Study on deep-hole boring by BTA system solid boring tool: Burnishing effect and guiding action of tool head 07 p0984 N84-16372
Surface accuracy measurement sensor test on a 50-meter antenna surface model
[NASA-TM-85689] 07 p0992 N84-16427
Accuracy considerations when using some minicomputers for scientific and engineering problems
[AD-A134141] 07 p1061 N84-16878

Spectral methods for the Euler equations: Chebyshev methods and shock-fitting
[NASA-CR-172295] 08 p1095 N84-17118
Manual of analytical methods for radiobioassay
[DE84-003978] 08 p1126 N84-17318
Dressing methods for grinding wheels made of superhard abrasive materials
[CSIR-TRANS-1700] 08 p1141 N84-17419
Pertinent meteorological data for hurricane Allen of 1980
[PB84-104322] 08 p1192 N84-17766
Measurement of robot accuracy using the Latin Square Three-Dimensional Ball Plate
[DE84-004920] 08 p1206 N84-17862
Thermodynamics library for AFOS (Automation of Field Operations and Services) programmers (THERMO LB)
[PB84-122621] 08 p1215 N84-17925
Multipole monolithic Surface Acoustic Wave (SAW) resonator filters
[AD-A136123] 09 p1309 N84-18561
Water resources data for Montana, water year 1982. Volume 2: Columbia River Basin
[PB84-118561] 09 p1340 N84-18752
Accuracy of the short wave radiation budget derived from Meteosat-VIS-data 10 p1535 N84-20055
Error reduction program: A progress report
11 p1609 N84-20536
Achieving chemical accuracy by quantum Monte Carlo
[DE84-005175] 11 p1746 N84-21392
Evaluation of instrument landing system DDM (Difference in Depth of Modulation) calibration accuracies
[AD-A138301] 12 p1768 N84-21533
Effect of data latency upon missile accuracy
[AD-A138048] 12 p1778 N84-21600
Accuracy estimate for radar cross section measurements of targets modelled by multiple independent scatterers in constant clutter
[AD-A138075] 12 p1806 N84-21775
High precision phase shifting techniques
[AD-A138397] 12 p1807 N84-21783
Satellite-derived sea surface temperature: Introduction 12 p1834 N84-21956
Analysis techniques 12 p1834 N84-21957
Evaluation of glass model precipitation forecasts for North America during SOP-1 12 p1850 N84-22051
Performance evaluation of a Magnavox GPS (Global Positioning System) Z-set
[AD-A138569] 13 p1929 N84-22547
Civil turbofan propulsion system integration studies using powered testing techniques at ARA, Bedford
[ARA-MEMO-246] 13 p1931 N84-22561
Personnel technology: Performance appraisal, a process approach
[AD-A138359] 13 p2022 N84-23112
A review of classical silicate-rock analysis and recommended modifications of classical methods of analysis
[USGS-CIRC-864] 14 p2175 N84-24027
Relations among system diagnosis models with 3-valued test outcomes
[AD-P002374] 14 p2195 N84-24165
Guidance and Control Techniques for Advanced Space Vehicles
[AGARD-CP-350] 15 p2265 N84-24603
Current work on high-grade space gyros at Ferranti in the UK 15 p2266 N84-24609
Overcoming unobservability in 3-axis stabilization of satellites 15 p2267 N84-24610
Spacelab 4: Primate experiment support hardware
15 p2348 N84-25092
Retroreflectance MAP (Measurement Assurance Program) service for coefficient of luminous intensity
[PB84-164938] 15 p2408 N84-25457
Data acquisition and processing in sea-level test beds
16 p2453 N84-25730
Effects of appraisal salience on immediate and memory-based judgments
[AD-A140334] 16 p2538 N84-26295
Optical effects of F-16 Canopy-HUD (Head-Up Display) integration
[AD-P003222] 17 p2595 N84-26635
Study of NOAA (National Oceanic and Atmospheric Administration) WP-3D terminal navigation errors based on navigators logbooks: 1977-1983
[PB84-155738] 17 p2605 N84-26692
Criteria for accuracy of rotary transformers
17 p2635 N84-26857
Evaluation of precision of triangulation method of determining coordinates 17 p2637 N84-26869
An evaluation of the accuracy of some radar wind profiling techniques 17 p2687 N84-27109
Accuracy of vertical velocity determination
17 p2687 N84-27112
Effects of geophysical noise on the accuracy of wind determination 17 p2687 N84-27113
Discrepancies in kinematic parameters of earthquakes according to observations by regional and world networks of stations 17 p2702 N84-27213
Testing and control of a compliant wrist
[AD-A140842] 17 p2748 N84-27445
Application of recurrent formulas for solving main geodetic problems 18 p2861 N84-28166
An optical technique for assessing the long-term accuracy of lateral extensometers
[NPL-DMA(A)-78] 19 p3026 N84-29190
New technique to improve the accuracy of albedo neutron dosimeter evaluations
[DE84-002458] 19 p3027 N84-29201
Psychoacoustic considerations for helicopter noise quantification: Metrics, human response and criteria
19 p3098 N84-29675
Relative accuracy assessment of LANDSAT-4 MSS and TM data for level 1 land cover inventory
20 p3217 N84-30432
Performance tests of the Solar Steam, Incorporated, 9-m deep-dish solar concentrating collector
[DE84-000079] 20 p3235 N84-30535
An improved accuracy general remapping algorithm
[DE84-004320] 20 p3282 N84-30837
Warheads for SAM systems 21 p3351 N84-31257
Evaluation of the limiting accuracy in determining the coordinates of a point light source by a television tracking system using an image dissector with the presence of a nonstationary current component
22 p3571 N84-32613
The exponential accuracy of Fourier and Tchebyshev differencing methods
[NASA-CR-172435] 22 p3645 N84-33108
A comparison of impedance measurement techniques in air
[AD-A143638] 23 p3821 N84-34232
An extended real-time microwave airplane position system 24 p3850 N84-34419
High-performance specialized processors for calculation of elementary and special functions
24 p3941 N84-34950

ACEE PROGRAM

A flight test of laminar flow control leading-edge systems
[NASA-TM-85712] 05 p0625 N84-14110
Airframe technology for aircraft energy efficiency --- economic factors
[NASA-TM-85749] 09 p1249 N84-18154
Advanced aerodynamics. Selected NASA research
[NASA-CP-2206] 18 p2783 N84-27660
Acoustic flight testing of advanced design propellers on a JetStar aircraft 18 p2783 N84-27661
F-111 TACT natural laminar flow glove flight results
18 p2783 N84-27662
Measured transonic unsteady pressures on an energy efficient transport wing with oscillating control surfaces
18 p2783 N84-27663
Status of advanced airfoil tests in the Langley 0.3-meter transonic cryogenic tunnel 18 p2783 N84-27664
Nacelle Aerodynamic and Inertial Loads (NAIL) project
[NASA-CR-165807] 18 p2786 N84-27685
Advanced composite elevator for Boeing 727 aircraft. Volume 1: Technical summary
[NASA-CR-3290] 18 p2792 N84-27722
Integrated Application of Active Controls (IAAC) technology to an advanced subsonic transport project: Final ACT configuration evaluation
[NASA-CR-3519] 18 p2792 N84-27723
Configuration design studies and wind tunnel tests of an energy efficient transport with a high-aspect-ratio supercritical wing
[NASA-CR-3524] 19 p2955 N84-28727
Results of design studies and wind tunnel tests of high-aspect-ratio supercritical wings for an energy efficient transport
[NASA-CR-159332] 19 p2956 N84-28735
Pressure distribution data from tests of 2.29-meter (7.5-ft.) span EET high-lift research model in Langley 4- by 7-meter tunnel
[NASA-TM-83111] 19 p2957 N84-28739
Nacelle Aerodynamic and Inertial Loads (NAIL) project
[NASA-CR-3585] 19 p2963 N84-28777
Integrated Application of Active Controls (IAAC) technology to an advanced subsonic transpot project-demonstration act system definition
[NASA-CR-165920] 19 p2967 N84-28804
Energy efficient engine program contributions to aircraft fuel conservation
[NASA-TM-83741] 20 p3130 N84-29876
ACEE Composite Structures Technology: Review of selected NASA research on composite materials and structures
[NASA-CP-2321] 20 p3145 N84-29969
Residual-strength tests of L-1011 vertical fin components after 10 and 20 years of simulated flight service 20 p3145 N84-29970

ACETATES

On the mechanism of the biological conversion of citric acid. 6: Citrate-synthase is an acetyl-CoA enolase
[NRC/CNR-TT-2074] 07 p0965 N84-16256
Microbioiogical and biochemical studies towards optimization of substrate utilization by methanogenic bacteria
[PB84-179753] 16 p2474 N84-25859
Electrically conducting poly(vinyl acetate)
[AD-A143199] 22 p3559 N84-32538

ACETONE

Mobility and molecular ions of dimethyl methyl phosphonate, methyl salicylate and acetone
[AD-A140328] 16 p2555 N84-26395

ACETYL COMPOUNDS

An investigation of chemically-induced improvement in saturation moisture characteristics of epoxies
[NASA-TM-85826] 18 p2809 N84-27834
Modulation of the cholinergic mechanisms in the bronchial smooth muscle
[NDRE/PUBL-84/1001] 21 p3457 N84-31937

ACETYLENE

Mechanical properties of bis-phenol-A polysulfone and acetylene terminated bis-phenol-A blend
[AD-A131277] 02 p0200 N84-11303
Spectroscopic characterization of the cured state of acetylene-terminated resin
[AD-A133050] 05 p0660 N84-14336
Diode laser spectrophotometry for monitoring acetylene on-line in a liquefaction plant
[DE84-002117] 06 p0851 N84-15548
Polymerization of functionalized acetylenes
[AD-A137120] 10 p1465 N84-19570
The mechanism of Ziegler-Natta polymerization of acetylene: A nutation NMR study
[AD-A137089] 10 p1468 N84-19588
Polymerizations of acetylenes and cyclic olefins induced by metal-carbynes
[AD-A137090] 10 p1468 N84-19589
Use of a polyacetylene cathode in primary lithium-thionyl chloride cells
[AD-A138791] 13 p1986 N84-22896
Chemistry of processible acetylene-terminated imides
[AD-A139417] 14 p2122 N84-23720
Development of high modulus polydiacetylene fibres for use in fibre-reinforced composites
[AD-A140912] 17 p2627 N84-26809
Characterization of Acetylene Terminated Sulfone (ATS-G)
[AD-A141348] 18 p2819 N84-27897
Organophosphazenes: 17: The synthesis of trimethylsilylacetylene and terminal acetylene derivatives of hexfluorocyclotriphosphazene
[AD-A141429] 19 p2983 N84-28906
Nuclear magnetic resonance study of the structure of simple molecules adsorbed on metal surfaces: Acetylene on platinum
[DE84-008661] 19 p2996 N84-28981
Protected ethynylated phenols
[AD-D011096] 22 p3560 N84-32544
Raman spectroscopic study of acetylene on supported rhodium catalysts
[AD-A144099] 23 p3714 N84-33544
Synthesis of monomers for the preparation of regiospecifically substituted poly(phenylacetylenes) as potential chemical detectors
[AD-A144690] 24 p3889 N84-34628

ACHIEVEMENT

Computer-managed instruction: Individual differences in student performance
[AD-A139708] 15 p2382 N84-25286

ACHONDRITES

Microprobe analyses of rare-earth-element fractionation in meteoritic minerals
[DE83-017326] 04 p0621 N84-14097
Antarctic Meteorite Newsletter. Volume 7, number 1: Sample requests and allocations
[NASA-TM-85559] 10 p1596 N84-20462

ACID BASE EQUILIBRIUM

Chemical and electrochemical properties in molten alkaline hydroxides. 2: Oxidising/reducing reactions of oxygen
[BLL-RISLEY-TR-4775-(9091.9F)]
01 p0036 N84-10227
No. 263 chemical and electrochemical properties in molten alkaline hydroxides. 11: Potential-acidity diagram for iron in molten sodium hydroxide at 350 deg C
[BLL-RISLEY-TR-4761-(9091.9F)]
01 p0036 N84-10228
Chemical composition of acid precipitation in Texas, volume 1
[DE84-900411] 07 p1027 N84-16659
Moderate temperature rechargeable NaNiS2 cells
11 p1744 N84-21376

ACID RAIN
Acidic deposition and the corrosion and deterioration of materials in the atmosphere: A bibliography, 1880 - 1982
[PB83-236091] 01 p0047 N84-10302
Research program for effects of acidic deposition on materials and cultural resources
[PB83-232074] 01 p0051 N84-10331
Effects of acid precipitation and natural processes on cation leaching from 4 diverse forest ecosystems
[DE83-015759] 01 p0103 N84-10671
Transport and fate of acid rains out of North America
[DE83-015819] 02 p0244 N84-11597
Characterization of reactants, reaction mechanisms and reaction products leading to extreme acid rain and acid aerosol conditions in southern California
[PB83-252825] 04 p0561 N84-13697
Air monitoring techniques for space shuttle launches Vandenberg Air Force Base
[AD-A132956] 05 p0700 N84-14593
Simulated precipitation reference materials, 4
[PB83-139378] 06 p0883 N84-15742
Formation of acid deposition: Atmospheric chemical tranformation and deposition
[REPT-107] 07 p1027 N84-16654
Chemical composition of acid precipitation in Texas, volume 1
[DE84-900411] 07 p1027 N84-16659
Atmospheric deposition to forests
[DE84-003384] 08 p1182 N84-17700
Estimation of North America anthropogenic sulfur deposition as a function of source/receptor separation
[DE84-003638] 08 p1182 N84-17701
Acidic deposition effects on vegetation: A review and analysis of methodology
[DE84-004014] 09 p1343 N84-18769
Assessment of acid rain on leaching of elements from Delaware soils into groundwater
[PB84-120849] 09 p1343 N84-18770
Evidence for acid-precipitation-induced trends in stream chemistry at hydrologic bench-mark station
[USGS-CIRC-910] 10 p1531 N84-20029
Regional acid deposition: Models and physical processes
[PB84-115997] 10 p1532 N84-20035
Regional acid deposition: Design and management plan for a comprehensive modeling system
[PB84-116003] 10 p1532 N84-20037
Acid precipitation in southeastern Wyoming
[PB84-132521] 10 p1533 N84-20039
FORAST: A regional scale study of forest responses to air pollutants
[DE84-003269] 11 p1675 N84-20933
Meteorologically induced uncertainty in LRT modeling
[DE84-003444] 11 p1676 N84-20935
Acid rain bibliography
[PB84-138940] 11 p1677 N84-20941
Acid rain information book
[DE83-013693] 12 p1845 N84-22028
Characterization of acid rain for source identification. Task 1: Sulfur isotope rationing
[DE84-006510] 12 p1845 N84-22030
Effects of mesoscale weather distrubances on contamination concentrations
[DE84-005753] 13 p2010 N84-23036
In-situ measurements of bronze deterioration
[DE84-007300] 15 p2299 N84-24796
Acidification of rain by the oxidation of dissolved SO2 and the absorption of HNO3
[PB84-168368] 15 p2367 N84-25200
Acid deposition: Atmospheric processes in eastern North America, a review of current scientific understanding
[PB84-173095] 16 p2526 N84-26220
Intermediate-range grid model and user's guide for atmospheric sulfur dioxide and sulfate concentrations and depositions: Wisconsin Power Plant Impact Study
[PB84-189257] 20 p3238 N84-30556
European views on controlling acid rain
[PB84-194208] 20 p3239 N84-30563
Atmospheric chemistry of H2O2, NO3, HONO, and HNO3: Influence of aqueous phase and heterogeneous processes
[PB84-183680] 20 p3243 N84-30592

ACIDITY
Assessment of acidity of lakes and precipitation in the Sierra Nevada
[PB83-255521] 05 p0701 N84-14603
Simulated precipitation reference materials, 4
[PB83-139378] 06 p0883 N84-15742

ACIDS
NT ACRYLIC ACID
NT AMINO ACIDS
NT CARBONIC ACID
NT CARBOXYLIC ACIDS
NT CHROMIC ACID
NT CITRIC ACID
NT DEOXYRIBONUCLEIC ACID
NT FATTY ACIDS
NT FORMIC ACID
NT GLUTAMIC ACID
NT GLUTAMINE
NT HISTIDINE
NT HYDROBROMIC ACID
NT HYDROCHLORIC ACID
NT HYDROCYANIC ACID
NT HYDROFLUORIC ACID
NT LYSINE
NT NITRIC ACID
NT NUCLEIC ACIDS
NT PEPTIDES
NT PHOSPHORIC ACID
NT RIBONUCLEIC ACIDS
NT SULFONIC ACID
NT SULFURIC ACID
NT TRYPTOPHAN
Survey of water quality and flow in Maryland coastal zone streams: A data report
[PB83-249375] 04 p0556 N84-13660
Formation and remodeling of the early wound matrix
[AD-A134576] 08 p1201 N84-17833
A study on the gastrointestinal hormones and the gastric acid secretion during physical stress in man
[NDRE/PUBL-83/1001] 10 p1546 N84-20136
Chemistry of processible acetylene-terminated imides
[AD-A139417] 14 p2122 N84-23720
Zinc electrode morphology in acid electrolytes
[DE84-007184] 14 p2124 N84-23728
Assessment of fuel cell propulsion systems
[DE84-006323] 15 p2420 N84-25536
Suppression of asymmetric acid efflux and gravitropism in maize roots treated with auxin transport inhibitors of sodium orthovanadate
[NASA-CR-173634] 17 p2740 N84-27395

ACOUSTIC ATTENUATION
Computerized audio processor
[AD-A130390] 01 p0063 N84-10411
Afternoon effect studies, part 1
[AD-A130926] 01 p0140 N84-10918
Nonlinear acoustics in a dispersive continuum: Random waves, radiation pressure, and quantum noise
04 p0594 N84-13920
Marine environmental acoustics
[AD-A133245] 06 p0909 N84-15902
Acoustic damping by microcondensate — in supersonic nozzle
07 p1070 N84-16952
Preliminary investigation of an electrical network model for ultrasonic scattering
[NASA-CR-3770] 08 p1168 N84-17606
Repetitively pulsed electric laser acoustic studies, volume 1
[AD-A136538] 09 p1322 N84-18636
Comparison of real-ear attenuation characteristics of the standard SPH-4 earcup and a prototype crushable earcup
[AD-A138042] 12 p1868 N84-22171
A reverberation room round robin on the determination of absorption coefficients
[NRC/CNR-TT-2079] 12 p1898 N84-22364
Comparative investigation of the sound attenuation of four types of flyer helmets
[IZF-1983-7] 12 p1899 N84-22370
Active sound reduction systems — headsets
[IZF-1983-8] 12 p1900 N84-22371
Reflection, scattering, and absorption of acoustic waves by rough surfaces
[AD-A140523] 16 p2555 N84-26390
Acoustic attenuation in ocean sediments found in shallow water regions
[AD-A140869] 17 p2763 N84-27550
Studies on the insulation effect of rubber springs in complex structures in the acoustic frequency range
[BMFT-FB-HA-84-001] 19 p3037 N84-29264
Effect of boattail geometry on the acoustics of parallel baffles in ducts
[NASA-TM-85961] 19 p3099 N84-29686
Pulsed-laser generation of ultra-short acoustic pulses: Application for thin-film ultrasonic measurements
[AD-A141874] 19 p3100 N84-29690
Overground Excess Sound Attenuation (ESA). Volume 2: Analysis of data for flat grassy terrain conditions
[AD-A142420] 20 p3291 N84-30692
Active sound reduction: A study of recent developments and some future possibilities
[F83-06] 20 p3292 N84-30699
Resolution and quantitative accuracy improvements in ultrasound transmission imaging
21 p3490 N84-32113
Measurement of the absorption coefficient using the sound-intensity technique
[NASA-CR-173848] 21 p3490 N84-32115
Study of double wall panels for use in propeller driven aircraft
[NASA-CR-173847] 21 p3490 N84-32116
Experimental investigation of rocket motor flow-turning acoustic losses
[AD-A144166] 24 p3866 N84-34504

ACOUSTIC COMBUSTION
U COMBUSTION STABILITY

ACOUSTIC DUCTS
Acoustic radiation from a semiinfinite annular duct in a uniform subsonic mean flow
[NLR-MP-82045-U] 09 p1387 N84-19059
VHF and UHF propagation in the Canadian high Arctic
15 p2326 N84-24069
A new method for determining acoustic-liner admittance in a rectangular duct with grazing flow from experimental data
[NASA-TP-2310] 17 p2782 N84-27543
Contributions to the theory of sound propagation in ducts with bulk-reacting lining
[NLR-MP-83064-U] 17 p2783 N84-27551

ACOUSTIC EMISSION
Monitoring of defect progression by acoustic emission
01 p0033 N84-10206
Changes in acoustic emission peaks in precipitation strenghtened alloys with heat tretment
[DE83-013611] 01 p0045 N84-10289
Medium- and high-pressure sonic leak pinpointing
[PB83-228361] 01 p0086 N84-10557
Safety and protection for large-scale superconducting magnets. A FY 1982 report
[DE83-012961] 01 p0154 N84-11013
Acoustical measurements of DOE/NASA MOD-0 wind turbine at Plum Brook Station, Ohio
[DE83-011971] 02 p0242 N84-11584
Manufacturing methods and technology (MANTECH) program. Quality control and nondestructive evaluation techniques for composites. Part 6: Acoustic emission: A state-of-the-art review
[AD-A132621] 05 p0645 N84-14245
Shock associated noise — nozzles
06 p0767 N84-15030
Aspects of damping of sonic vibrations due to impact loading in plate steels
[BLL-M-35295-(5828.4)] 06 p0908 N84-15895
A review of underwater acoustic systems and methods for locating objects lost at sea
[NASA-TM-85727] 06 p0908 N84-15898
Investigations of the mechanical behavior of spot welded joints by means of acoustic emission analysis
[DE84-003041] 07 p1014 N84-16574
Review of progress in quantitative NDE
[DE84-001906] 07 p1014 N84-16575
Measurement of transmission loss characteristics using acoustic intensity techniques at the KU-FRL Acoustic Test Facility
[NASA-CR-173187] 07 p1069 N84-16942
Acoustic emission determination of deformation mechanisms leading to failure of naval alloys, volume 1
[AD-A135387] 08 p1171 N84-17626
Acoustic emission determination of deformation mechanisms leading to failure of naval alloys, volume 2
[AD-A135388] 08 p1171 N84-17627
Introduction to acoustic emission
[NASA-TM-77088] 08 p1227 N84-18016
Acoustic imaging of vapor bubbles through optically non-transparent media
[DE84-003961] 08 p1228 N84-18022
Martensitic transformations, relaxation and acoustic-emission properties of some alloys of the Fe-Ni-Mn system
[BLL-M-35434-(5828.4)] 09 p1281 N84-18363
Contribution to the properties of carbon fiber reinforced composites — structural mechanics
[DFVLR-MITT-83-16] 10 p1452 N84-19480
Methods for nondestructive tests of CFRP laminates
10 p1452 N84-19482
Influence of a plasma during laser welding
[DE84-004414] 10 p1502 N84-19820
Employment of adaptive learning techniques for the discrimination of acoustic emissions
[AD-A136142] 12 p1899 N84-22366
Acoustic emission: A brief introduction to some of its uses in the aero engine industry
[PNR-90172] 13 p1933 N84-22571
The measurement of acoustic emission parameters during hydraulic loading of the Novovorenezh AES reactor vessel VVER-1000
[DRIC-T-6998] 15 p2403 N84-25421
Emission effects of memory in rocks
17 p2705 N84-27227
Investigation of acoustic emission during fracture toughness testing of chevron-notched specimens
[AD-A141315] 18 p2814 N84-27865

Acoustic emission accompanying phase change in deformed 1H18N9T steel
[ISSN-0208-5658] 19 p2961 N84-28952
Acoustical communications by means of small explosive charges
[DE84-008903] 20 p3175 N84-30161
The mechanical properties of carbon fibre with glass fibre hybrid reinforced plastics 21 p3357 N84-31292
A comprehensive guide to the literature on acoustic emission from composites
[DE84-011064] 21 p3358 N84-31296
Sound field of turbulent wake 21 p3478 N84-32048
Detection of damage in hydraulic components by acoustic emission techniques
[AD-A143262] 22 p3607 N84-32850

ACOUSTIC EXCITATION
Correlation of flight effects on centerline velocity decay for cold-flow acoustically excited jets
[NASA-TM-83502] 02 p0287 N84-11883
Profile of laser-produced acoustic pulse in a liquid
[AD-A134136] 05 p0686 N84-14510
The effects of acoustic excitation on the mixing of two parallel laminar streams of fluid
[AD-A126788] 06 p0843 N84-15502
Large deflection multimode response of clamped rectangular panels to acoustic excitation, volume 1
[AD-A139622] 15 p2350 N84-25107
Development of a 2-dimensional turbulent jet under natural and excited conditions 17 p2666 N84-26997
Acoustic excitation: A promising new means of controlling shear layers
[NASA-TM-83772] 21 p3325 N84-31096
Electromagnetic excitation of sound in metals 21 p3484 N84-32082

ACOUSTIC GENERATORS
U SOUND GENERATORS

ACOUSTIC IMPEDANCE
Acoustic diffraction by an impedance-covered edge
[AD-A133266] 06 p0909 N84-15904
Improved impact tolerant material
[NASA-CASE-LAR-12687-1] 11 p1627 N84-20649
Acoustic ground impedance meter
[NASA-CASE-LAR-12995-1] 13 p1993 N84-22933
Causes and prevention of systematic deviations from true values of absorption coefficients measured in reverberation rooms
[NRC/CNR-TT-2080] 15 p2403 N84-25423
Experimental study of noise transmission into a general aviation aircraft
[NASA-CR-172357] 20 p3290 N84-30888

ACOUSTIC INSTABILITY
Turbulence generated pressure fluctuations in a class of interior flows 10 p1423 N84-19306
High frequency acoustic instabilities in heated fluids
[DE84-005114] 10 p1575 N84-20324
Direct measurement of high frequency solid propellant response functions 13 p1945 N84-22649

ACOUSTIC LEVITATION
Space Processing Applications Rocket (SPAR) project SPAR 7
[NASA-TM-82535] 01 p0018 N84-10112
An acoustic levitation technique for the study of nonlinear oscillations of gas bubbles in liquids
[AD-A132858] 05 p0681 N84-14477
Contactless pellet fabrication
[NASA-CASE-NPO-15592-1] 07 p1069 N84-16940
Vibrating-chamber levitation systems
[NASA-CASE-NPO-16142-1] 07 p1070 N84-16948
Gravity enhanced acoustic levitation method and apperatus
[NASA-CASE-NPO-16147-1] 07 p1070 N84-16949
Acoustic rotation control
[NASA-CASE-NPO-15689-1] 13 p2039 N84-23233
Space processing applications rocket project. SPAR 8
[NASA-TM-82578] 16 p2455 N84-25745
Sonic levitation apparatus
[NASA-CASE-MFS-25828-1] 18 p2928 N84-28568
Containerless high purity pulling process and apparatus for glass fibers
[NASA-CASE-MFS-25905-2] 22 p3564 N84-32569
Development of the sonic pump levitation
[NASA-CR-161963] 22 p3592 N84-32749

ACOUSTIC MEASUREMENT
NT NOISE MEASUREMENT
Monitoring of defect progression by acoustic emission 01 p0033 N84-10206
Acoustic ranging technique with application to assessment of low-frequency acoustic noise of wind turbines
[DE83-009106] 01 p0140 N84-10921
Acoustic resonance in heat-exchanger tube banks
[DE83-011413] 02 p0219 N84-11436
Technique for measuring the sound pressure levels under flying helmets and headsets
[IZF-1982-39] 02 p0269 N84-11765
A comparison of frequency determination using real sodar data
[DE83-017942] 04 p0564 N84-13718
Aerodynamic sources of acoustic radiation from a single MOD-2 wind turbine
[DE84-000013] 06 p0909 N84-15905
Combustion instability: Measurement of acoustic admittance in solid propellant
[INPE-2789-NTE/201] 07 p0980 N84-16352
Investigations of the mechanical behavior of spot welded joints by means of acoustic emission analysis
[DE84-003041] 07 p1014 N84-16574
Analysis and acoustooptical measurements of bulk and surface acoustic wave fields
[NASA-CR-173271] 07 p1069 N84-16945
Turbine blade testing methods
[NASA-CR-170962] 09 p1256 N84-18201
Acoustic signature from flames as a combustion diagnostic tool
[AD-A136447] 09 p1278 N84-18347
Acoustic leak detection and ultrasonic crack detection
[DE84-004037] 09 p1328 N84-18670
Comparative investigation of the sound attenuation of four types of flyer helmets
[IZF-1983-7] 12 p1899 N84-22370
The audiomat: An automatic audiometer to be used in occupational audiometry
[IZF-1983-17] 12 p1900 N84-22372
The measurement of mechanicel point admittances by means of hammer excitation and tape recording. Part 1: A feasibility study
[TPD-308.780/1-VOL-1] 12 p1900 N84-22375
The measurement of mechanical point admittances by means of hammer excitation and tape recording. Part 2: Measuring and processing rules
[TPD-308.780/2-VOL-2] 12 p1900 N84-22376
On the measurement of structure-borne sound energy flow along pipes. Part 3: Analysis of systematic and random errors
[TPD-308.785/1] 12 p1900 N84-22377
Acoustic wave propagation through shear layer of the German-Dutch open jet wind tunnel (DNW)
[NLR-MP-83003-U] 12 p1901 N84-22379
Analysis of acoustic chamber pressure oscillations in shuttle high-pressure SRB's 13 p1946 N84-22651
Acoustic ground impedance meter
[NASA-CASE-LAR-12995-1] 13 p1993 N84-22933
Nondestructive Evaluation Technology Working Group report (IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability study)
[AD-A139484] 14 p2156 N84-23919
Experimental investigation of shock-cell noise reduction for dual-stream nozzles in simulated flight comprehensive data report. Volume 1: Test nozzles and acoustic data
[NASA-CR-168336-VOL-1] 14 p2220 N84-24323
Acoustic measurements of a full-scale rotor with four tip shapes. Volume 1: Text, appendices A and B
[NASA-TM-85878-VOL-1] 14 p2221 N84-24327
Estimation of the flight parameters of low flying aircraft using the radiated noise
[LFD-211] 15 p2259 N84-24569
Techniques and instrumentation for the measurement of transient sound energy flux
[ISVR-TR-122A] 15 p2404 N84-25427
Process controlled measuring valve acquisition taking example by the noise measuring technique
[PTB-E-25] 16 p2554 N84-26389
Measurement of flux density of sound energy 17 p2638 N84-26874
A new method for determining acoustic-liner admittance in a rectangular duct with grazing flow from experimental data
[NASA-TP-2310] 17 p2762 N84-27543
Studies of acoustical properties of bulk porous flexible materials
[NASA-CR-173622] 17 p2762 N84-27544
Surface acoustic admittance and absorption of highly porous, layered, fibrous materials 17 p2762 N84-27545
Acoustic structure and propagation in highly porous, layered, fibrous materials 17 p2762 N84-27546
Absorptive surfaces of extended reaction angle of incidence considerations 17 p2763 N84-27547
Defects and materials characterization by analysis of ultrasonic signals
[AD-A141180] 18 p2851 N84-28101
Use of the Doppler ultrasound method to evaluate the rate of blood flow in children with patent ductus arteriosus
[ISSN-0208-5658] 19 p3064 N84-29441
Physical measures of sound and noise 19 p3069 N84-29467
Area equivalent method VISICALC (trade name). Users' guide
[AD-A141430] 19 p3084 N84-29572
NASA/Army supported noise source/noise reduction programs at Langley 19 p3097 N84-29669
Acoustical communications by means of small explosive charges
[DE84-008903] 20 p3175 N84-30161
Residual stress measurements using shear-horizontal waves from electromagnetic acoustic transducers
[PB84-190636] 20 p3176 N84-30171
Effect of turbulent boundary layer flow on measurement of acoustic pressure and intensity, revised
[AD-A142473] 20 p3184 N84-30229
Scope for active noise abatement in vehicle diesel engines
[BLL-M-28767-(5825.4)] 20 p3290 N84-30885
Thermoacoustic couple
[DE84-011296] 20 p3291 N84-30895
Instrumentation for in-flight acoustic measurements in an engine intake
[NLR-MP-83060-U] 20 p3292 N84-30898
A comprehensive guide to the literature on acoustic emission from composites
[DE84-011064] 21 p3358 N84-31296
Measurement of the absorption coefficient using the sound-intensity technique
[NASA-CR-173848] 21 p3490 N84-32115
Prediction of light aircraft interior sound pressure level using the room equation
[NASA-CR-173840] 21 p3490 N84-32117
The discrimination of pitch in pulse trains and speech
[AD-A142996] 21 p3492 N84-32127
A study of heat release rate distribution in a gas turbine combustor by acoustic measurements 22 p3536 N84-32385
The prediction of acoustical particle motion using an efficient polynomial curve fit procedure
[NASA-CR-173915] 22 p3651 N84-33145
A comparison of impedance measurement techniques in air
[AD-A143636] 23 p3821 N84-34232

ACOUSTIC MICROSCOPES
Acoustic microscopy at cryogenic temperatures
[AD-A135089] 08 p1141 N84-17421
Reflection acoustic microscopy for Micro-NDE
[AD-A136321] 09 p1327 N84-18665

ACOUSTIC PROPAGATION
Experimental determination of the particle motions associated with the low order acoustic modes in enclosures
[NASA-CR-174542] 02 p0287 N84-11882
Short-range acoustic intensity vectors of the Pekeris shallow water model
[AMTE(N)-TM-83065] 03 p0430 N84-12819
An introduction to the parabolic equation for acoustic propagation
[AD-A132315] 04 p0595 N84-13925
Sound propagation through a moderate coastal upwelling: Comparison of modeling prediction with experimental data
[AD-A133782] 05 p0742 N84-14876
Research and development of subsurface acoustic wave device configurations for sensor applications
[AD-A133659] 05 p0742 N84-14877
A review of source location/assessment techniques — aeroacoustics 06 p0767 N84-15029
Acoustical modes of arbitrary volumes using NASTRAN transient heat transfer RF9 06 p0859 N84-15597
The AMTE/OUEL underwater jet noise rig
[OUEL-1491/83] 07 p1070 N84-16953
Reduction of propeller noise by a reflecting rubber layer — ship propellers
[FOA-C-20506-E4] 08 p1228 N84-18025
Nonlinear phenomena in electromagnetic and acoustic wave propagation
[AD-A140716] 17 p2653 N84-26969
Acoustic attenuation in ocean sediments found in shallow water regions
[AD-A140869] 17 p2763 N84-27550
Theoretical and experimental results of dynamic behavior of periodically stiffened cylindrical shell 18 p2794 N84-27731
Acoustic methodology review 19 p3098 N84-29674
Acoustic propagation in the surface layer under convectively unstable conditions 21 p3489 N84-32111
Time dependent wave envelope finite difference analysis of sound propagation
[NASA-TM-83744] 21 p3490 N84-32118
Acoustic propagation in a thermally stratified atmosphere
[NASA-CR-173863] 21 p3491 N84-32121

Noise measurement flight test: Data-analyses Aerospatiale SA-365N Dauphin 2 helicopter
[AD-A143229] 22 p3652 N84-33151

ACOUSTIC PROPERTIES
NT ACOUSTIC IMPEDANCE
NT ACOUSTIC INSTABILITY
NT ACOUSTIC SCATTERING
NT ACOUSTIC VELOCITY
NT REVERBERATION
NT SOUND INTENSITY
NT ZERO SOUND

Effects of microstructure and pore fluids on the acoustic properties of granular materials
[AD-A131983] 03 p0408 N84-12668
Rocket motor aeroacoustics 13 p1944 N84-22642
Coupling between velocity oscillations and solid propellant combustion 13 p1944 N84-22643
Three-dimensional vorticity procedure interactions in combustion instability analysis of solid propellant rocket motors 13 p1945 N84-22647
Effect of pressure on the static and dynamic acoustic properties of porous rubber
[AD-A138744] 13 p1963 N84-22756
State-space structures for the realization of low roundoff noise digital filters 13 p1967 N84-22900
Prediction of resonance frequencies for ventilated wall wind tunnels 14 p2097 N84-23580
Operational and Performance Measurement on Engines in Sea Level Test Facilities
[AGARD-LS-132] 16 p2452 N84-25723
Aero/thermodynamic and acoustic considerations in the design of test-beds for turbojets and turbofans 16 p2452 N84-25725
Studies of acoustical properties of bulk porous flexible materials
[NASA-CR-173622] 17 p2762 N84-27544
Acoustic structure and propagation in highly porous, layered, fibrous materials 17 p2762 N84-27546
Absorptive surfaces of extended reaction angle of incidence considerations 17 p2763 N84-27547
Dependence of acoustic properties of sound absorbing fibrous materials on their structure 21 p3477 N84-32044
Noise measurement flight test: Data-analyses Aerospatiale SA-365N Dauphin 2 helicopter
[AD-A143229] 22 p3652 N84-33151

ACOUSTIC RADIATION
U SOUND WAVES

ACOUSTIC RETROFITTING
Investigation of fuselage acoustic treatment for a twin-engine turboprop aircraft in flight and laboratory tests
[NASA-TM-85722] 07 p1069 N84-16947

ACOUSTIC SCATTERING
NT REVERBERATION
Scattering of waves by irregularities in periodic discrete lattic spaces. Part 2: Calculations
[AD-A130665] 01 p0140 N84-10917
Viscous effect on acoustic scattering by elastic solid cylinders and spheres
[DE83-014271] 01 p0140 N84-10920
Transverse horizontal coherence and low-frequency array gain limits in the deep ocean
[AD-A131916] 03 p0430 N84-12821
Acoustic pulse scattering from impedance covered cylinders
[AD-A131653] 03 p0431 N84-12822
A comparison of frequency determination using real sodar data
[DE83-017942] 04 p0564 N84-13718
Grain structure identification by ultrasound frequency averaging and deconvolution
[AD-A134054] 05 p0653 N84-14294
Focused acoustical and optical backscattering from spheres and properties of optoacoustic sources
[AD-A133744] 05 p0747 N84-14904
Acoustic diffraction by an impedance-covered edge
[AD-A133266] 06 p0909 N84-15904
Rough surface scattering via the smoothing method
[AD-A137025] 10 p1575 N84-20323
Characterization and scattering of bounded ultrasonic beams
[AD-A138491] 12 p1899 N84-22369
Automatic elimination of static unbalance of rotor in anisotropic bearings 13 p1973 N84-22803
Elastic wave scattering from cylindrical cavities and solid inclusions analyzed by the resonance method
[AD-P002971] 14 p2201 N84-24207
Reflection, scattering, and absorption of acoustic waves by rough surfaces
[AD-A140523] 16 p2555 N84-26390
Scattering of ultrasound by minority phases in polycrystalline metals
[AERE-R-11162] 18 p2929 N84-28574
Analytical modeling of random thermal fluctuations in the NORDA (Naval Ocean Research and Development Activity) high-frequency sound scattering facility
[AD-A142520] 20 p3250 N84-30630
Inverse scattering problem
[AD-A142634] 20 p3291 N84-30694
Finite element prediction of acoustic scattering and radiation from submerged elastic structures 22 p3610 N84-32874
Development of a 611 MHz feed for a 9-meter reflector
[NASA-TM-86300] 23 p3730 N84-33641

ACOUSTIC SIMULATION
Parametric and nonparametric Fast Kalman echo cancellation 13 p1967 N84-22901

ACOUSTIC SOUNDING
Turbulence environment characterization
[AD-A131815] 03 p0411 N84-12692
Sizing defects using annular-array techniques with an automated ultrasonic data-acquisition system
[DE84-001644] 04 p0546 N84-13597
Acoustic data and uncertainty in geotechnical site characterization offshore
[PB84-100908] 08 p1196 N84-17801
Limiting ranges in atmospheric radioacoustic sounding 17 p2707 N84-27238
Signal power during radioacoustic sounding of turbulent atmosphere 18 p2864 N84-28186
Comparison of qualitative and quantitative measurements of temperature turbulence with monostatic sodar 18 p2865 N84-28188

ACOUSTIC STABILITY
U FREQUENCY STABILITY

ACOUSTIC VELOCITY
CTD transect of the Kuroshio Extension 27-42 deg N, 152 deg E
[AD-A131329] 01 p0111 N84-10721
The velocity of sound behind strong shock waves in 2024 Al
[DE83-015927] 02 p0220 N84-11446
The effect of noisy reflection data on an inverse method for determining the structure of a layered ocean bottom
[AD-A131976] 03 p0430 N84-12820
A horizontal range versus depth solution of sound source position under general sound velocity conditions using the Lloyd's mirror interference pattern
[AD-A134097] 05 p0742 N84-14875
Sound velocity anisotropy in cubic crystals
[NASA-CR-175344] 07 p1079 N84-17016
Acoustic data and uncertainty in geotechnical site characterization offshore
[PB84-100908] 08 p1196 N84-17801
Mechanical details of a modified Hamilton Frame velocimeter
[AD-A136180] 09 p1318 N84-16613
Rough surface scattering via the smoothing method
[AD-A137025] 10 p1575 N84-20323
Coupling between velocity oscillations and solid propellant combustion 13 p1944 N84-22643
Three-dimensional vorticity procedure interactions in combustion instability analysis of solid propellant rocket motors 13 p1945 N84-22647
Compressibility of colloids. 2: Compressibility studies of tri-block non-ionic polymers in toluene and water solutions
[AD-A138738] 13 p1963 N84-22755
Techniques and instrumentation for the measurement of transient sound energy flux
[ISVR-TR-122A] 15 p2404 N84-25427
Experiment versus theory 19 p3098 N84-29679
Pulsed-laser generation of ultra-short acoustic pulses: Application for thin-film ultrasonic measurements
[AD-A141874] 19 p3100 N84-29690
Undersea acoustic research
[AD-A142339] 20 p3291 N84-30891
Diffusion transfer during near-sonic turbulence 21 p3486 N84-32090

ACOUSTIC VIBRATIONS
U SOUND WAVES

ACOUSTICAL HOLOGRAPHY
A comparison between new and traditional ultrasonic techniques on thick welds in pressure vessels
[CISE-2074] 05 p0690 N84-14534
Experimental study using Nearfield Acoustical Holography of sound transmission fuselage sidewall structures
[NASA-CR-173639] 17 p2671 N84-27024
A study of methods to predict and measure the transmission of sound through the walls of light aircraft. A survey of techniques for visualization of noise fields
[NASA-CR-173917] 22 p3652 N84-33146

ACOUSTICS
NT AEROACOUSTICS
NT BIOACOUSTICS
NT GEOMETRICAL ACOUSTICS
NT MICROSONICS
NT PSYCHOACOUSTICS
NT UNDERWATER ACOUSTICS
Investigation of effects of microphone position and orientation on near-ground noise measurements
[NASA-TP-2004] 01 p0139 N84-10913
A review of research in chemical-acoustic coupling
[AD-A129896] 01 p0140 N84-10915
Research activities that occurred in the Coordinated Science Laboratory for July 1, 1982 through Jun 30, 1983
[AD-A132132] 04 p0623 N84-14108
Parametric acoustic array formation via weak collinear and noncollinear interaction in dispersive fluids
[AD-A133660] 05 p0675 N84-14436
Nonlinear acoustics instabilities in combustion chambers 06 p0802 N84-15230
Satellite broadcasting: Protection ratio requirements for enhanced transmissions using extended PAL vision and digital sound signals
[BBC-RD-1983/18] 07 p0986 N84-16386
Experimental apparatus for studying moving thermoacoustic sources
[AD-A134517] 07 p1010 N84-16549
The 11th International Congress on Acoustics
[AD-A134345] 07 p1070 N84-16951
Repetitively pulsed electric laser acoustic studies, volume 1
[AD-A136538] 09 p1322 N84-18636
On the significance of unsteady surface pressures for aerodynamically induced interior noise of automobiles
[DFVLR-FB-83-28] 10 p1423 N84-19303
Industrial noise control: The past three years 10 p1505 N84-19846
Acoustic responses of coupled fluid-structure system by acoustic-structural analogy 10 p1510 N84-19883
Acoustic environments for JPL shuttle payloads based on early flight data 10 p1512 N84-19898
Source signature recovery in reverberant structures 10 p1515 N84-19922
Application of marine acoustic systems
[PB84-141381] 11 p1692 N84-21037
Distributed estimation in the MIT/LL (Massachusetts Institute of Technology/Lincoln Laboratory) DSN (Distributed Sensor Networks) test-bed
[AD-P002897] 13 p1980 N84-22856
Acoustic rotation control
[NASA-CASE-NPO-15689-1] 13 p2039 N84-23233
Low noise amplifier at L band
[INPE-3128-PRE/519] 16 p2483 N84-25925
The identification and inversion of acoustic multipath data at long range in the ocean
[AD-P003123] 16 p2533 N84-26264
Surface acoustic admittance and absorption of highly porous, layered, fibrous materials 17 p2762 N84-27545
Inversion of the acoustic plane wave reflection response of a layered ocean bottom
[AD-A132794] 18 p2928 N84-28570
Wave propagation from moving singularities and a unified exposition of the linearized theory for aerodynamics and acoustics
[DFVLR-FB-84-17] 19 p3010 N84-29080
Rotor noise prediction technology: Theoretical approach 19 p3098 N84-29678
State of the art: Design for noise I 19 p3099 N84-29682
Activities report of the Institute of Sound and Vibration Research 19 p3100 N84-29693
Two-way unidirectional condenser microphone
[NHK-LABS-NOTE-297] 20 p3177 N84-30175
USSR report: Physics and mathematics
[JPRS-UPM-84-001] 20 p3285 N84-30862
Excitation of sound by light 20 p3285 N84-30863
The acoustic design of outside broadcast vehicles
[BBC-RD-1984/3] 21 p3381 N84-31454
USSR report: Physics and mathematics
[JPRS-UPM-84-003] 21 p3477 N84-32043
USSR report: Physics and mathematics
[JPRS-UPM-84-005] 21 p3484 N84-32081
Agglomeration and pecipitation by sonic-inertial means: Abstract of the state of the art
[REPT-0563/84] 21 p3491 N84-32126
A comparison of 2 acoustic parabolic transmission loss models for compatibility with the wavenumber technique in the determination of source depth
[AD-A143079] 21 p3492 N84-32128
JT15D simulated flight data evaluation
[NASA-CR-172322] 22 p3536 N84-32387
Speech communication 22 p3684 N84-33358
Algorithmization and programming of operator activities for parametric synthesis of speech using the CT-1 system controlled by the MERA 303 minicomputer
[ISSN-0208-5658] 23 p3729 N84-33634

Segmentation of the speech signal based on changes in energy distribution in the spectrum
[ISSN-0208-5658] 23 p3729 N84-33635
Environment and receptivity 23 p3748 N84-33760
Measurement of small elastic anisotropy in solids using laser induced ultrasonic pulses
[AD-A144296] 24 p3912 N84-34775

ACOUSTO-OPTICS
The Gordon Research Conference on Holography and Optical Information Processing
[AD-A129137] 02 p0293 N84-11923
A compact optical pulse compressor with computer-generated holographic masks for radar applications
[AD-A132152] 04 p0522 N84-13430
Profile of laser-produced acoustic pulse in a liquid
[AD-A134138] 05 p0686 N84-14510
Focused acoustical and optical backscattering from spheres and properties of optoacoustic sources
[AD-A133744] 05 p0747 N84-14904
Acousto-optic/CCD real-time SAR data processor 07 p0969 N84-16410
Analysis and acoustooptical measurements of bulk and surface acoustic wave fields
[NASA-CR-173271] 07 p1069 N84-16945
Optical data processing for missile guidance
[AD-A136216] 09 p1254 N84-18188
Optical signal processing
[AD-A135908] 09 p1389 N84-19074
Acousto-optic processing of 2-d signals using temporal and spatial integration
[AD-A136086] 09 p1390 N84-19078
A new multifunction acousto-optic signal processor 12 p1906 N84-22413
Real-time synthetic aperture radar processing 12 p1906 N84-22416
Computer controlled laser optoacoustic spectroscopy for trace gas analysis 13 p1955 N84-22710
Acoustic-optic spectrometer. 1: Noise contributions and system consideration
[NASA-TM-85613] 14 p2221 N84-24326
Photoacoustic imaging
[AD-A139298] 14 p2224 N84-24350
Development of new electro-optic and acousto-optic materials
[AD-A139946] 15 p2408 N84-25453
Investigation of plane phased array of piezoelectric transducers with one-lobe directivity diagram 17 p2639 N84-26883
An investigation of resonant optoacoustic cells
[PB83-251637] 18 p2929 N84-28572
Optical signal processing for surveillance
[AD-A140957] 18 p2932 N84-28591
Acousto-Optic Adaptive Processing (AOAP)
[AD-A141445] 19 p3100 N84-29689
Pulsed-laser generation of ultra-short acoustic pulses: Application for thin-film ultrasonic measurements
[AD-A141874] 19 p3100 N84-29690
Fiber optic lever towed array
[AD-D011047] 19 p3105 N84-29727
Relation between pressure pulse generated in optoacoustic receiver and intensity of stimulating laser pulse 21 p3478 N84-32047
Optically pumped polarized alkali atomic beams and targets
[DE84-012389] 21 p3495 N84-32147
Fiber optic sensor with enhanced immunity to random environmental perturbations
[AD-D011115] 22 p3656 N84-33174

ACQUISITION
NT DATA ACQUISITION
NT TARGET ACQUISITION
The cost growth problem: A realistic diagnosis and solution
[AD-A131082] 01 p0159 N84-11049
Productivity improvement in a purchase division: Evaluation of a Performance Contingent Reward System (PCRS)
[AD-A133589] 07 p1050 N84-16801
Multiyear subcontractor selection criteria analysis
[AD-A135638] 09 p1397 N84-19126
Image acquisition and manipulation system
[AD-A138927] 13 p2028 N84-23153
A quality improvement strategy for systems acquisition
[AD-P002820] 13 p2061 N84-23365
Acquisition cost analysis for the near term military application of laser versus millimeter wave for satellite crosslink communications
[AD-A141061] 19 p3004 N84-29037
Program Manager: The Journal of the Defense Systems Management College, volume 13, no. 2, March - April 1984
[AD-A141770] 19 p3114 N84-29789
Improving system affordability
[AD-A142387] 20 p3318 N84-31082
Reverse engineering of the multiple launch rocket system. Human factors, manpower, personnel, and training in the weapons system acquisition process
[AD-A142849] 21 p3349 N84-31247
Fleet project team participation in major aviation training device development, acquisition and support
[AD-A144182] 24 p3857 N84-34452
Spread spectrum, acquisition and tracking
[AD-A144533] 24 p3895 N84-34668
Comparative analysis of government and private sector ADP acquisition
[AD-A144523] 24 p3969 N84-35131

ACROBATICS
A hazard in aerobatics: Effects of G-forces on pilots
[FAA-AC-91-61] 12 p1865 N84-22152

ACROLEINS
Polymerisation of acrolein and its derivatives. 2: Polymerisation of acrolein and alpha-alkyl substituted acrolein in the presence of metallic sodium
[BLL-M-28708-(5826.4)] 01 p0048 N84-10308

ACRYLATES
Synthesis and characterization of some thermotropic nematic and cholesteric polymers 06 p0806 N84-15262
Properties of UV-cured polyurethane acrylates: Effect of polyol type and molecular weight
[AD-A143176] 22 p3559 N84-32537
Properties of UV-curable polyurethane acrylates: Effect of reactive diluent
[AD-A143241] 22 p3559 N84-32540

ACRYLIC ACID
Stage I propellant surveillance report glacial acrylic acid motors GAA-001 and GAA-002 TP-H1011
[AD-A141099] 19 p3001 N84-29020

ACRYLIC RESINS
Improved acrylic systems for rapid runway repair
[AD-A130389] 01 p0016 N84-10103
Small solute concentration differences determined by interferometry
[CSIR-CENG-424] 07 p0969 N84-16278
Kinetics of chromium ion absorption by cross-linked polyacrylate films
[NASA-TM-83661] 14 p2118 N84-23693
Deflocculation of clay suspensions using sodium polyacrylates
[NASA-TM-77432] 14 p2121 N84-23712
Journal of aeronautical materials (selected articles)
[AD-A140167] 16 p2434 N84-25610
Some crazing experiments on As-cast acrylic to MIL-P-8184
[AD-P003196] 17 p2591 N84-26609
The effects of moisture on fracture toughness and thermal relaxation of stretched acrylic plastics
[AD-P003197] 17 p2591 N84-26610
Fluroepoxy and flurocacrylic transparencies
[AD-P003201] 17 p2592 N84-26614
An improved acrylic sheet material with enhanced craze resistance
[AD-P003203] 17 p2592 N84-26616
Specialty coatings for increased service life of acrylic aircraft transparencies, part 2
[AD-P003206] 17 p2593 N84-26619
The certification of polycarbonate transparencies: An appeal for reasonable requirements
[AD-P003225] 17 p2596 N84-26638
Monolithic F-16 uniform thickness stretched acrylic canopy transparency program
[AD-A140645] 17 p2606 N84-26694
Impact of laser radiation on optical properties of polymer liquid crystal in phase transition range 20 p3286 N84-30868

ACRYLONITRILES
Tailoring polymer films for solar-collection use, phase 1
[DE83-018117] 03 p0404 N84-12640
Locating and estimating air emissions from sources of acrylonitrile
[PB84-200609] 22 p3619 N84-32934

ACTH
U ADRENOCORTICOTROPIN (ACTH)

ACTINIDE SERIES
NT AMERICIUM
NT AMERICIUM 241
NT PLUTONIUM
NT PLUTONIUM 238
NT THORIUM
NT URANIUM
NT URANIUM 235
NT URANIUM 238

ACTINIDE SERIES COMPOUNDS
NT PLUTONIUM COMPOUNDS
NT PLUTONIUM OXIDES
NT URANIUM FLUORIDES
NT URANIUM OXIDES

ACTINOMETERS
NT DICKE RADIOMETERS
NT INFRARED DETECTORS
NT INFRARED SCANNERS
NT INFRARED SPECTROMETERS
NT INFRARED SPECTROPHOTOMETERS
NT MICROWAVE RADIOMETERS
NT PASSIVE L-BAND RADIOMETERS
NT PYRANOMETERS
NT RADIOMETERS
NT SOLAR SPECTROMETERS
NT SPECTROHELIOGRAPHS
NT SPECTROPHOTOMETERS
NT SPECTRORADIOMETERS
NT ULTRAVIOLET SPECTROMETERS

ACTIVATED CARBON
Supercritical fluid regeneration of adsorbents
[PB83-207597] 01 p0058 N84-10377
Waste water treatment with the aid of the addition of activated carbon into the aeration station and reactivation of the spent carbon
[BMFT-FB-T-83-186] 07 p1028 N84-16661
Application of the finite compartment model of carbon adsorption to binary systems
[AD-A141483] 19 p2988 N84-28932

ACTIVATED SLUDGE
Hygienic microbiological/virological examination of an airwasher concerning the emission of airborne microorganisms
[BMFT-FB-T-83-130] 02 p0265 N84-11742

ACTIVATION
Flame fronts with complex chemical networks
[DE84-001175] 04 p0496 N84-13255
The transfer of atoms, ions and molecular groups in solution. Part 1: Models and limits
[AD-A142333] 20 p3147 N84-29981
Electrochemical activation parameters for surface-attached reactants evaluation of unimolecular frequency factors for representative ligand-bridged reactions
[AD-A142483] 20 p3148 N84-29990
Study of proton and neutron activation of metal samples in low Earth orbit
[NASA-CR-171113] 21 p3430 N84-31763

ACTIVATION ANALYSIS
NT NEUTRON ACTIVATION ANALYSIS
Some aspects of the corrosion of iron in alkaline solutions and associated fundamental problems
[BLL-T6234/BG/LRS/LRST677/83] 12 p1795 N84-21707

ACTIVATION ENERGY
A review of theories currently being used to model steady plane flames on flame-holders
[CA-8316] 06 p0800 N84-15218
Fracture of aluminum in uniaxial and biaxial extension at 473-77 deg K 12 p1783 N84-21635
High-temperature oxidation of alpha nickel-silicon. 1: Reaction kinetics; thermogravimetry
[MRL-R-887] 12 p1796 N84-21717
Vibrational energy transfer at a surface in reacting systems. Decomposition of azomethane
[AD-A137966] 12 p1901 N84-22381
The influence of specific reactant-solvent interactions on intrinsic activation entropies for outer-sphere electron transfer reactions
[AD-A139081] 13 p1957 N84-22725
Theoretical studies of solids under extreme conditions
[AD-A139352] 14 p2132 N84-23778
Inner-sphere reorganization in optical electron transfer
[AD-A139722] 15 p2405 N84-25435
Two-step sequential reactions for large activation energies-revisited
[AD-A141750] 19 p2968 N84-28934
The transfer of atoms, ions and molecular groups in solution. Part 3: Monte Carlo methods for the evaluation of rate constants
[AD-A142335] 20 p3147 N84-29983
Association and bound motion in alkali metal doped cadmium fluoride
[AD-A143200] 22 p3546 N84-32450
NMP, electrical relaxation, and high pressure electrical conductivity in ion conducting polymers
[AD-A143202] 22 p3546 N84-32451
The energy dependence and surface morphology of Kapton (trademark) degradation under atomic oxygen bombardment 24 p3863 N84-34484

ACTIVE CONTROL
Memory-mapped CAMAC branch driver
[DE83-016084] 01 p0119 N84-10775
The initial design of active control systems for a flexible aircraft 02 p0171 N84-11125
Mean-square optimal, full-order compensation of structural systems with uncertain parameters
[AD-A131276] 02 p0281 N84-11841
Control of multiaxis vibration systems 03 p0339 N84-12203

Flight test and analyses of the B-1 structural mode control system at supersonic flight conditions
[NASA-CR-170405] 04 p0487 N84-13197
Active control of large flexible space structures
05 p0644 N84-14235
Experimental study of active vibration control
[AD-A133818] 05 p0692 N84-14546
ACOSS Fourteen (Active Control of Space Structures)
[AD-A133411] 06 p0795 N84-15181
Active control of the potential of ISEE-1 by an electron gun 08 p1119 N84-17278
ACOSS eleven (Active Control Of Space Structures), volume 1
[AD-A135675] 09 p1273 N84-18311
ACOSS eleven (Active Control Of Space Structures), volume 2
[AD-A135676] 09 p1273 N84-18312
Active thermal control of the faint object camera
10 p1442 N84-19419
System aspects of the European Retrievable Carrier (EURECA) thermal control system
10 p1444 N84-19432
Experiences with the design and implementation of flutter suppression systems 11 p1619 N84-20593
Transonic calculation of airfoil stability and response with active controls
[NASA-TM-85770] 12 p1765 N84-21513
Active control of distributed structures
13 p1940 N84-22618
An aeroelastician's perspective of wind tunnel and flight experiences with active control of structural response and stability
[NASA-TM-85761] 14 p2157 N84-23924
A decentralized active control system for a large flexible structure in space 15 p2268 N84-24622
Vibration Control Of Space Structures VCOSS B: Momentum exchange and truss dampening
[AD-A139910] 15 p2281 N84-24701
ACOSS eleven (Active Control Of Space Structures), volume 1
[AD-A140025] 15 p2282 N84-24703
ACOSS eleven (Active Control Of Space Structures), volume 2
[AD-A140026] 15 p2282 N84-24704
A numerical study of the controlled flow tunnel for a high lift model
[NASA-CR-166572] 16 p2438 N84-25642
Transonic aeroelastic stability and response of conventional and supercritical airfoils including active controls 17 p2598 N84-26655
Design and analysis of a longitudinal ride comfort control system for a Short Take-Off and Landing (STOL) aircraft
[UTIAS-TN-254] 17 p2748 N84-27442
Selected advanced aerodynamic and active control concepts development
[NASA-CR-3469] 18 p2786 N84-27683
Integrated Application of Active Controls (IAAC) technology to an advanced subsonic transport project: Wing planform study and final configuration selection
[NASA-CR-3468] 18 p2792 N84-27720
Experimental investigation of elastic mode control on a model of a transport aircraft
[NASA-CR-3472] 18 p2792 N84-27721
Integrated Application of Active Controls (IAAC) technology to an advanced subsonic transport project: Current and advanced act control system definition study
[NASA-CR-3545] 18 p2796 N84-27744
Feasibility study on a new type of personal noise protection
[BMFT-FB-HA-84-017] 18 p2915 N84-28489
Integrated Application of Active Controls (IAAC) technology to an advanced subsonic transport project: Current and advanced act control system definition study, volume 1
[NASA-CR-165631-VOL-1] 19 p2967 N84-28802
Integrated Application of Active Controls (IAAC) technology to an advanced subsonic transport project: Current and advanced act control system definition study. Volume 2: Appendices
[NASA-CR-165631-VOL-2] 19 p2967 N84-28803
Integrated Application of Active Controls (IAAC) technology to an advanced subsonic transpot project-demonstration act system definition
[NASA-CR-165920] 19 p2967 N84-28804
Development and flight evaluation of an augmented stability active controls concept with a small horizontal tail
[NASA-CR-165951] 19 p2967 N84-28805
Interactive flight control system analysis program
[NASA-CR-172352] 19 p2968 N84-28807
Active attenuation of propeller blade passage noise
[NASA-CR-172386] 20 p3290 N84-30886
Active sound reduction: A study of recent developments and some future possibilities
[F83-06] 20 p3292 N84-30899
Unsteady aerodynamics of fast moving control surfaces
[BMFT-FB-W-84-020] 21 p3328 N84-31117
Interactive aircraft flight control and aeroelastic stabilization
[NASA-CR-173866] 21 p3344 N84-31214
Active controls: A look at analytical methods and associated tools
[NASA-TM-86269] 21 p3419 N84-31684
Compensating technique using one active control scheme to nullify the acummulated effect of modelling deviation
[INPE-3181-PRE/546] 21 p3471 N84-31996
Validation of an Active Gear, Flexible Aircraft Take-off and Landing analysis (AGFATL)
[NASA-TP-2353] 22 p3534 N84-32378
Development and flight evaluation of an augmented stability active controls concept with a small tail
[NASA-CR-173880] 22 p3537 N84-32395
Controller technique of compensation figured in an active control scheme on the accumulated effects of deviation in the modeling
[INPE-2987-TDL/152] 22 p3643 N84-33100
ACOSS twelve (active control of space structures)
[AD-A143829] 23 p3701 N84-33458
Active suppression of aeroelastic instabilities on a forward swept wing using a linear optimal regulator
[AD-A144561] 24 p3854 N84-34442

ACTIVE GLACIERS
U GLACIERS

ACTIVE SATELLITES
Report on active and planned spacecraft and experiments
[NASA-TM-85455] 02 p0183 N84-11187

ACTIVE VOLCANOES
U VOLCANOES

ACTIVITY (BIOLOGY)
Changes in the T and B systems of immunity in seamen during a long cruise 08 p1199 N84-17819
Hypnotics and air operations
11 p1697 N84-21072
Variations in EEG in relation to brain functional status
18 p2897 N84-28377
Psychophysiological aspects of monotonous human activity 21 p3453 N84-31911
The stability of atropine, stored in the Swedish autoinjector
[FOA-C-40191-C3] 23 p3805 N84-34127

ACTIVITY CYCLES (BIOLOGY)
Circadian rhythms and sustained operations
11 p1697 N84-21067
Adaptation to irregularity of rest and activity
11 p1697 N84-21070
Biological clocks and shift work scheduling
[GPO-29-312] 15 p2379 N84-25277

ACTUATION
Dynamic effects of controls 01 p0013 N84-10088
Thermal actuation of extinguishing systems
[PB84-177156] 16 p2478 N84-25886

ACTUATORS
Airplane actuation trade study
[AD-A130709] 01 p0013 N84-10080
The dynamics and control of large flexible space structures, 6
[NASA-CR-174450] 01 p0027 N84-10173
The MSAD actuator sclenoid, performance evaluation and modification
[DE83-011216] 01 p0074 N84-10483
Solar magnetic fields study
[AD-A130491] 01 p0166 N84-11088
Actuator placement considerations for the control of large space structures 02 p0185 N84-11199
Parameter identification and control of distributed-parameter systems 02 p0286 N84-11873
Hydraulic actuators and associated components suited for multiaxis vibration systems — spacecraft testing
03 p0339 N84-12201
Simulation of electro-servo-hydraulic actuator for high quality testing — of spacecraft 03 p0340 N84-12206
IPACS guidance navigation and control system considerations and test activities
03 p0346 N84-12245
Fiberoptics for propulsion control system
[NASA-TM-83542] 05 p0625 N84-14111
Flight evaluation of a linear optical displacement transducer
[AD-A132638] 05 p0630 N84-14141
Experimental study of active vibration control
[AD-A133818] 05 p0692 N84-14546
A study of digitally controlled flight control actuation
[AD-A133274] 06 p0791 N84-15160
Synchronously deployable truss structure
[NASA-CASE-LAR-13117-1] 07 p0964 N84-16250
Selection of noisy sensors and actuators for regulation of linear systems — large space structures
[AD-A135442] 08 p1216 N84-17931
The Giotto mechanisms and their functions
09 p1294 N84-18459
Space Shuttle Orbiter rudder/speed brake actuation system 09 p1295 N84-18461
A conceptual design study for the secondary mirror drive of the shuttle infrared telescope facility (SIRTF)
[NASA-CR-166562] 10 p1501 N84-19813
Precise control of flexible manipulators
[NASA-CR-175389] 10 p1553 N84-20175
Guidance and Control Techniques for Advanced Space Vehicles
[AGARD-CP-350] 15 p2265 N84-24603
Actuator development for the Instrument Pointing System (IPS) 15 p2347 N84-25080
Evolution from a hinge actuator mechanism to an antenna deployment mechanism for use on the European large communications satellite (L-SAT/OLYMPUS)
15 p2347 N84-25084
Inherent problems in designing two-failure tolerant electromechanical actuators 15 p2348 N84-25088
Safety recommendation: Cessna Model 402C airplane, September 5, 1983, Tampa International Airport, Tampa, Florida 16 p2444 N84-25680
Digital control of flight simulator motion base actuator
[ARL-SYS-TM-69] 16 p2454 N84-25732
Tubing and cable cutting tool
[NASA-CASE-LAR-12788-1] 18 p2848 N84-28085
Low temperature rate controller
[AD-D011029] 19 p2982 N84-28897
Operations manual for the data acquisition and reduction system, Area III Actuator Test Facility
[DE84-008906] 19 p3116 N84-29803
Digital rotation measurement unit
[DE84-010872] 21 p3392 N84-31528
Optimum control of electric motor drives for industrial robots
[DE84-012878] 21 p3395 N84-31543
Low temperature evaluation of advanced technology hydraulic system (8,000 psi)
[AD-A143389] 22 p3538 N84-32396
Effect of thermal aging on the output of a pyrotechnic actuator
[DE84-012903] 22 p3562 N84-32558
Analysis, testing, and evaluation of faulted and unfaulted Wye, Delta, and open Delta connected electromechanical actuators
[NASA-CR-171808] 22 p3585 N84-32707
ACOSS twelve (active control of space structures)
[AD-A143829] 23 p3701 N84-33458
Optimal sensor/actuator placement on a large space structure
[AD-A144560] 24 p3865 N84-34499

ACUITY
NT VISUAL ACUITY

ADA (PROGRAMMING LANGUAGE)
Reference manual for the Ada programming language
[AD-A131511] 01 p0123 N84-10800
Ada-Europe guidelines for the portability of Ada programs, second edition
[NPL-DITC-27/83] 03 p0419 N84-12739
Guidelines for the design of large modular scientific libraries in Ada
[NPL-DITC-28/83] 03 p0420 N84-12740
Utilization of Ada as a program design language
[AD-A132244] 04 p0580 N84-13830
Implementing an ADA kernel on NEBULA
[AD-A132745] 05 p0719 N84-14714
INTEL 432/670 Ada benchmark performance evaluation in the Multiprocessor/Multiprocess environment
[AD-A132774] 05 p0719 N84-14715
Software engineering — conferences
[ESA-SP-199] 05 p0721 N84-14729
European community support to software engineering development through Ada activities and ESPRIT
05 p0724 N84-14747
Coherent management support in the Ada environment 05 p0724 N84-14748
Ada and the NASA software environment
05 p0724 N84-14749
ANSI Ada and the UK M-CHAPSE
05 p0725 N84-14760
Computer program development specification for Ada integrated environment: Virtual memory methodology, B5-AIE(1).VMM(2)
[AD-A134091] 05 p0726 N84-14767
System specification for Ada integrated environment type A AIE(1)
[AD-A134080] 05 p0726 N84-14769
Computer program development specification for Ada integrated environment: MAPSE debugging facilities, B5-AIE(1).DBUG(1)
[AD-A134070] 05 p0727 N84-14771
Computer program development specification for Ada integrated environment. MAPSE command processor B5-AIE(1).MCP (1)
[AD-A134033] 05 p0727 N84-14772

Computer program development specification for Ada integrated environment. Ada compiler phases B5-AIE (1). COMP (1)
[AD-A134032] 05 p0727 N84-14773
Computer program development specification for Ada integrated environment: Program integration facilities, type b5, B5-AIE (1). PIF (1)
[AD-A134003] 05 p0727 N84-14774
Feasibility assessment of JOVIAL to Ada translation
[AD-A134857] 06 p1213 N84-17911
Ada compiler validation summary report: ROLM Ada compiler, version 4.42 V-002
[AD-A136732] 10 p1557 N84-20199
Ada compiler validation report: Western digital STC-Ada compiler, version C1.OM V-004
[AD-A136738] 10 p1557 N84-20200
Ada compiler validation summary report: NYU Ada/Ed, version 19.7 V-001
[AD-A136759] 10 p1557 N84-20201
Ada compiler validation summary report: ROLM Ada compiler, version 4.52 V-003
[AD-A136760] 10 p1557 N84-20202
AdaRel: A relational extension of Ada
[AD-A137106] 10 p1562 N84-20234
A revised STONEMAN for distributed Ada (trademark) support environments
[AD-A137940] 11 p1707 N84-21127
The implementation and use of Ada on distributed systems with high reliability requirements
[NASA-CR-175413] 12 p1876 N84-22228
ADA1: An ADA subset compiler for the AFIT syntax directed programming environment
[AD-A136027] 12 p1880 N84-22251
On the conversion of LINPACK to Ada
[AD-P002941] 14 p2197 N84-24181
Ada advanced error detector
[AD-A140273] 16 p2544 N84-26334
Annotation language design for Ada (ANNA)
[AD-A140452] 16 p2545 N84-26336
Preliminary program manager's guide to Ada
[AD-A140347] 16 p2565 N84-26457
Tutorial material on the real data types in Ada
[NFL-DITC-34/83] 17 p2751 N84-27458
Ada (Trademark) primer
[AD-A140660] 17 p2753 N84-27471
Ada (Trademark) case studies II
[AD-A140818] 17 p2753 N84-27475
A study of the feasibility of duplicating JAMPS applications software in the Ada programming language
[AD-A140884] 17 p2753 N84-27477
A specification technique for the common APSE (Ada programming support environments) interface set
[AD-A140889] 17 p2754 N84-27479
Transformation of Ada program units into silicon
[AD-A141004] 18 p2833 N84-27986
Converting to Ada packages
[NPL-DITC-39/84] 18 p2919 N84-28512
A concurrent PASCAL implementation on a Rolm 1664
[NLR-MP-83035-U] 18 p2922 N84-28531
Evaluation of automated configuration management tools in ADA programming support environments
[AD-A140982] 18 p2944 N84-28666
Distributed avionic computers
[AD-A142140] 19 p3073 N84-29484
Kernel Ada Programming Support Environment (KAPSE) interface team, public report, volume 3
[AD-A141576] 19 p3077 N84-29523
Introduction to Ada, a higher order language. L103 teacher's guide
[AD-A141848] 19 p3078 N84-29531
Ada (registered trademark) technical overview. L102 teacher's guide
[AD-A141862] 19 p3078 N84-29532
Proceedings of the 2nd Annual Conference on Ada (Trademark) Technology
[AD-A142403] 20 p3269 N84-30745
The Army Ada (trademark) education program
[AD-P003414] 20 p3269 N84-30746
The US Army model Ada (trademark) training curriculum
[AD-P003415] 20 p3269 N84-30747
Configuration management with the Ada (trademark) language
[AD-P003416] 20 p3269 N84-30748
Learning the Ada (trademark) integrated environment
[AD-P003417] 20 p3270 N84-30749
Teaching Ada (trademark) at the US Military Academy
[AD-P003418] 20 p3270 N84-30750
Experiences in teaching Ada (trademark)
[AD-P003419] 20 p3270 N84-30751
Teaching Ada (trademark) at Hampton Institute
[AD-P003420] 20 p3270 N84-30752
The CECOM summer faculty research program
[AD-P003421] 20 p3270 N84-30753
Teach Ada (trademark) as the student's first programming language?
[AD-P003422] 20 p3270 N84-30754
An Ada (trademark) network: A real-time distributed computer system
[AD-P003423] 20 p3270 N84-30755
DCP (Distributed software engineering control process): Experience in bootstrapping an Ada (trademark) environment
[AD-P003424] 20 p3270 N84-30756
Ada (trademark) for business and other non-DOD applications
[AD-P003425] 20 p3271 N84-30757
Experience with Ada (trademark) for the Graphical Kernel System
[AD-P003426] 20 p3271 N84-30758
Military Computer Family Operating System: An Ada (trademark) application
[AD-P003427] 20 p3271 N84-30759
An advanced host-target environment for the military computer family
[AD-P003428] 20 p3271 N84-30760
Ada (trademark) tasking in numerical analysis
[AD-P003429] 20 p3271 N84-30761
Ada (trademark) as a program design language: Have the major issues been addressed and answered?
[AD-P003430] 20 p3271 N84-30762
Ada (trademark) design language concerns
[AD-P003431] 20 p3271 N84-30763
Seeding the Ada (trademark) software components industry
[AD-P003432] 20 p3272 N84-30764
Operating system interface for Ada (trademark) instructors
[AD-P003433] 20 p3272 N84-30765
Guidelines for the design of large modular scientific libraries in Ada
[CWI-NM-N8401] 20 p3275 N84-30792
JOVIAL language control procedures with a view toward Ada (Trademark)
[AD-P003522] 21 p3330 N84-31126
Feasibility assessment of JOVIAL to Ada (Trademark) translation
[AD-P003523] 21 p3330 N84-31127
The impact of NEBULA, MCF (Military Computer Family), and Ada (Trademark) on real-time embedded computer systems
[AD-P003534] 21 p3331 N84-31138
Ada (Trademark) as a program design language. A rational approach to transitioning industry to the world of Ada through a program design language criteria
[AD-P003556] 21 p3335 N84-31160
The KAPSE (Kernel Ada (Trademark) Programming Support Environment) interface team
[AD-P003557] 21 p3335 N84-31161
The Ada (Trademark) run-time environment
[AD-P003558] 21 p3335 N84-31162
A code of practice to constrain Ada (Trademark)
[AD-P003559] 21 p3335 N84-31163
Ada (Trademark) training considerations
[AD-P003560] 21 p3335 N84-31164
Architectural and control considerations for a high speed signal processor implemented with an Ada (Trademark) executive
[AD-P003594] 21 p3341 N84-31199
Proceedings of the 2nd AFSC (Air Force Systems Command) Avionics Standardization Conference. Volume 8: Tutorial: MIL-STD-1815 Ada high order language
[AD-A142783] 21 p3342 N84-31206
Ada (trade name) orientation for managers L101 teacher's guide
[AD-A141846] 21 p3465 N84-31968
ADA (trademark) training curriculum. Programming methodology m203 teacher's guide
[AD-A143581] 22 p3641 N84-33082
US Army Ada training curriculum. Curriculum catalog, 1984
[AD-A144188] 24 p3945 N84-34978
Embedded system design with Ada as the system design language
[AD-A144232] 24 p3945 N84-34979
Ada training curriculum. Introduction to software engineering, M102: Teachers' guide
[AD-A144236] 24 p3945 N84-34980
Ada training curriculum. Introduction to software engineering, M102. Teacher's guide: Exercises
[AD-A144237] 24 p3945 N84-34981
Ada (trademark) training curriculum. Software engineering methodologies M201 teacher's workbook
[AD-A144240] 24 p3945 N84-34982
Ada (trademark) training curriculum. Software engineering methodologies m201 teacher's guide, volume 1
[AD-A144256] 24 p3946 N84-34984
Ada (trademark) training curriculum. Software engineering methodologies M201 teacher's guide, volume 3
[AD-A144258] 24 p3946 N84-34986
Ada (trademark) training curriculum. Advanced Ada Topics 1305, teacher's guide exercises
[AD-A144497] 24 p3947 N84-34993
Ada (trademark) training curriculum. Advanced Ada Topics 1305, teacher's guide exercises, volume 1
[AD-A144498] 24 p3947 N84-34994
Ada (trademark) training curriculum. Advanced Ada Topics 1305, teacher's guide exercises, volume 2
[AD-A144499] 24 p3947 N84-34995
Ada training curriculum. Advanced Ada topics I305 teacher's guide exercises, volume 3
[AD-A144500] 24 p3947 N84-34996

ADAPTATION
NT ACCLIMATIZATION
NT ALTITUDE ACCLIMATIZATION
NT COLD ACCLIMATIZATION
NT DARK ADAPTATION
NT HEAT ACCLIMATIZATION
NT LIGHT ADAPTATION
Adaptive mesh refinement for hyperbolic partial differential equations
[AD-A130162] 01 p0131 N84-10859
Wind tunnel wall interference
[AD-A131396] 02 p0175 N84-11149
Research on adaptive antenna techniques 5
[AD-A133676] 05 p0669 N84-14398
Issues critical to the application of adaptive array antennas to missile seekers
[AD-A133401] 06 p0824 N84-15371
Advanced adaptive antenna techniques
[AD-A134300] 07 p0993 N84-16434
Advanced adaptive antenna techniques
[AD-A134301] 07 p0993 N84-16435
Development and applications of the microchannel spatial light modulator
[AD-A136132] 09 p1323 N84-18645
Study on extremizing adaptive systems and applications to synthetic aperture radars
[AD-A137725] 11 p1643 N84-20744
Adaptation to irregularity of rest and activity
11 p1697 N84-21070
Psycho-ergonomic problems presented by the prolonged wearing of gas masks
11 p1698 N84-21073
The Holter method in aeronautical medicine
11 p1700 N84-21087
Nearly optimal detection of signals in non-Gaussian noise
[AD-A138657] 13 p1983 N84-22872
Behavioral biology of mammalian reproduction and development for a space station
[NASA-CR-173493] 13 p2019 N84-23092
Adaptive effects of repeated immersion on man
15 p2376 N84-25258
Adaptive techniques for troposcatter
[AD-A142226] 19 p3008 N84-29066
Investigation of three dimensional mesh generation with precise controls
[AD-A142246] 19 p3089 N84-29614
A Taylor series in symmetry-adaptable functions
[AD-A142336] 20 p3280 N84-30819
Stability of physiological and psychological human functions under extreme environmental conditions
21 p3453 N84-31910
Oxygen affinity of hemoglobin, 3 hours after passive increase in altitude from 400 to 1800 metres
[RAE-TRANS-2118] 22 p3630 N84-33004
The functional condition of seamen under conditions of the southern maritime area 23 p3807 N84-34137
Research on topics in perturbation methods, transonic flow theory, numerical analysis and adaptive grid generation
[AD-A143641] 23 p3833 N84-34315
Development of a general model of the car drivers eye movement sequences and effects of subject and environmental variables
[AD-A144180] 24 p3936 N84-34915

ADAPTERS
NT MULTIPLE DOCKING ADAPTERS
Self-indexing latch system
[NASA-CASE-MFS-25956-1] 11 p1664 N84-20860
The introduction of clampbands in spacecraft structural mathematical models
[EMSB-12/83] 12 p1782 N84-21627
Aircraft loading adapter for use with ordnance lift vehicle
[AD-D011147] 23 p3696 N84-33421

ADAPTIVE CONTROL
NT ACTIVE CONTROL
NT LEARNING MACHINES
NT SELF ADAPTIVE CONTROL SYSTEMS

Application of an adaptive blade control algorithm to a gust alleviation system
[NASA-TM-85848] 01 p0012 N84-10079
The design and implementation of debugging systems for languages with advanced control structures
04 p0578 N84-13811
Fast algebraic methods for multivariable control systems
[AD-A132719] 05 p0733 N84-14811
Direct multivariable model reference adaptive control with applications to large structural systems
06 p0900 N84-15840
Channel tracking errors and the adaptive multiple-beam antenna
[AD-A134596] 07 p0994 N84-16443
Comments on bounded error adaptive control
[NASA-CR-173139] 07 p1057 N84-16848
An on-line equivalent system identification scheme for adaptive control
[NASA-TM-85737] 08 p1105 N84-17185
Adaptive feedforward linear wideband HF power bank
[AD-A134744] 08 p1151 N84-17493
Stabilization of thickness of zinc coating by adaptive system of control
[BLL-M-35367-(5828.4)] 09 p1281 N84-18364
Adaptive control of thermal fluid loops for space applications 10 p1444 N84-19433
Closed loop adaptive control of a 4.0 gigaHertz reactively steered microstrip array - experimental results
[AD-A137523] 10 p1486 N84-19717
Development of a wind tunnel test section with adaptive flexible walls for three-dimensional flow
[BMFT-FB-W-83-026] 10 p1495 N84-19776
Model reference adaptive control of mechanical manipulators 10 p1555 N84-20194
Adaptive control: Myths and realities
11 p1618 N84-20586
An iterative guidance method for the large rocket launch vehicle
[AD-A137586] 11 p1624 N84-20629
Multiple access adaptive antennas
13 p1976 N84-22823
Adaptive array combined with spread spectrum in communications 13 p1976 N84-22825
Reactively steered adaptive array (Resaa)
13 p1976 N84-22826
Generalized adaptive node concept
13 p1977 N84-22833
A digital adaptive array processing algorithm for communications 13 p1977 N84-22834
Adaptive control strategies for computer-controlled manipulators 13 p2023 N84-23114
Model reference adaptive control systems: The hybrid approach 13 p2031 N84-23189
Guidance and actuation systems for an adaptive-suspension vehicle
[AD-A139111] 14 p2155 N84-23910
Adaptive arrays for satellite communications
[NASA-CR-173548] 15 p2320 N84-24924
A computer package for designing pH regulation systems 15 p2391 N84-25344
Comments on bounded error adaptive control
[NASA-CR-173542] 15 p2399 N84-25393
Adaptive correction of control machines
[ISD-301] 16 p2484 N84-25929
Research in adaptive control hybrid and constrained structure systems
[AD-A140496] 16 p2547 N84-26345
Stochastic modeling of EDM with a view to off-line optimization
[PB84-162296] 17 p2639 N84-26885
Distributed parameter control techniques with application to adaptive control of certain flutter phenomena, November 1, 1982 to October 31, 1983
[AD-A140943] 18 p2923 N84-28540
Adaptive decentralized control
[AD-A142160] 19 p3081 N84-29549
An adaptive method of lines with error control for parabolic equations of the reaction-diffusion type
[AD-A142253] 19 p3090 N84-29616
Crest: Crew escape technologies for the 1990's
20 p3141 N84-29944
Summaries of doctorate theses — man machine systems 20 p3263 N84-30705
Some design guidelines and discrete-time adaptive controllers
[NASA-CR-173800] 20 p3278 N84-30808
An on-line equivalent system identification scheme for adaptive control 21 p3343 N84-31213
An adaptive attitude controller for terrestrial artificial satellites
[INPE-3166-PRE/551] 21 p3349 N84-31243
Modeling, control and simulation of three-dimensional robotic systems with application to biped locomotion
21 p3460 N84-31943
Refinement and evaluation of helicopter real-time self-adaptive active vibration controller algorithms
[NASA-CR-3821] 23 p3689 N84-33378
Adaptive control with variable dead-zone nonlinearities
[NASA-CR-173980] 24 p3948 N84-35001

ADAPTIVE CONTROL SYSTEMS
U ADAPTIVE CONTROL

ADAPTIVE FILTERS
Analysis of the Howells-Applebaum algorithm in the presence of moving interference. The use of lattice filters in daptive array processors. Stability analysis of LMS adaptive filters. Adaptive array processors with moving interference
[AD-A130218] 01 p0063 N84-10413
Evaluation of a total energy-rate sensor on a transport airplane
[NASA-TP-2212] 03 p0332 N84-12164
Digital audio: Dynamic range control of digital audio signals
[BBC-RD-1983/17] 05 p0685 N84-14374
Adaptive protection of detecion systems operating by spread spectrum 06 p0868 N84-15652
Flight test experience with pilot-induced-oscillation suppression filters
[NASA-TM-86028] 07 p0958 N84-16213
Investigation of design considerations for a complex demodulation filter
[NASA-CR-173295] 08 p1107 N84-17195
Intrinsic adaptive mesh techniques
[NASA-CR-175375] 08 p1217 N84-17941
Basic research in electronics (JSEP) Joint Services Electronics Program
[AD-A136290] 09 p1306 N84-18538
Enhancement of spread-spectrum systems through adaptive antenna techniques 13 p1976 N84-22824
On a simple adaptive tracking filter
[AD-A138955] 13 p2033 N84-23186
Adaptive coherence estimation
[DE84-006486] 15 p2393 N84-25361
Optical adaptive filter. Frequency domain implementation
[AD-A141090] 19 p3104 N84-29718
Compensating technique using one active control scheme to nullify the acummulated effect of modelling deviation
[INPE-3181-PRE/546] 21 p3471 N84-31996
Relations between algorithms of adaptive optimization of antenna arrays and algorithms of optimum detection of multidimensional stochastic signal
22 p3566 N84-32588

ADAPTIVE OPTICS
Optical signal processing
[AD-A135906] 09 p1389 N84-19074
Investigation of the simultaneous application of Combined Optical Adaptive Techniques (COAT) and angle tracking
[DFVLR-FB-83-17] 10 p1579 N84-20347
Adaptive compensation for atmospheric turbulence effects on optical propagation 15 p2325 N84-24960

ADDERS (CIRCUITS)
U ADDING CIRCUITS

ADDING CIRCUITS
VLSI (Very Large Scale Integrated) design of a 16 bit very fast pipelined carry look ahead adder
[AD-A136356] 09 p1306 N84-18540
Reasoning about digital circuits
[AD-A136634] 09 p1365 N84-18914
The simplification of multiple-valued symmetric functions
[AD-P002340] 14 p2191 N84-24131
Pulse-train residue arithmetic circuit using multiple-valued charge-coupled devices and its application to digital filter
[AD-P002345] 14 p2191 N84-24136

ADDITION
On the moments of an additive function
14 p2210 N84-24265
Substitution and addition reactions of a (Methylene)phosphine with alkyllithium reagents
[AD-A141512] 19 p2984 N84-28908

ADDITION RESINS
NT ACRYLIC RESINS
NT VINYL COPOLYMERS
Technique for removing resin from a molded object
[NASA-TM-77240] 11 p1641 N84-20729

ADDITIVES
NT ADMIXTURES
NT ANTIKNOCK ADDITIVES
NT ANTIOXIDANTS
NT OIL ADDITIVES
NT PLASTICIZERS
NT PROPELLANT BINDERS
NT SOLID ROCKET BINDERS
Effect of modifying additives on the properties of polymer blends
[CSIR-1690] 01 p0049 N84-10313
Research on fire-resistant diesel fuel flammability mitigation mechanisms
[AD-A130743] 01 p0052 N84-10337
The use of fuel additives to control plume opacity of turbine engine test cells
[AD-A130777] 01 p0053 N84-10339
Method of manufacturing ceramic shaped articles
[NASA-TM-77242] 01 p0057 N84-10370
Modeled heating and surface erosion comparing motile (gas borne) and stationary (surface coating inert particle additives
[DE83-000597] 01 p0080 N84-10521
Dopants profiling techniques in semiconductor technology
[BMFT-FB-T-83-126] 02 p0300 N84-11972
Hydrogen-air detonations
[DE83-009289] 03 p0350 N84-12278
The effect of moisture on the physical and durability properties of methyl methacrylate polymer concrete
[DE83-016733] 03 p0390 N84-12541
Improved polymers for enhanced-oil-recovery synthesis and rheology
[DE83-017371] 04 p0507 N84-13324
Determination of a jet fuel metal deactivator by high performance liquid chromatography
[AD-A132220] 04 p0509 N84-13336
Middle distillate fuel stability characteristics: A review
[AD-A132156] 04 p0509 N84-13337
Tensile strength of pressureless-sintered silicon nitride at elevated temperature
[NAL-TR-753] 04 p0548 N84-13611
Influence of rare-earth additions on properties of titanium alloys. Effects of yttrium and erbium additives on rapid solidification processing, superplastic forming, welding, and strengthening of titanium alloys
[AD-A133689] 05 p0654 N84-14299
Optimization of SiC-based materials
[BMFT-FB-T-83-161] 05 p0661 N84-14343
Evaluation of CO2 and CO dopants in hydrogen to reduce hydrogen permeation in the Stirling engine heater head tube alloy CG-27
[NASA-TM-83535] 06 p0805 N84-15246
Capillary supercritical fluid chromatography of polycyclic aromatic compounds
[DE84-002939] 07 p0972 N84-16302
Alkali doping heterogeneous catalysts
[BMFT-FB-T-83-174] 07 p0973 N84-16303
Consolidation of Si3N4 without additives (by hot isostatic pressing)
[NASA-CR-173279] 08 p1136 N84-17389
A comprehensive model to determine the effects of temperature and species fluctuations on reaction rates in turbulent reaction flows
[NASA-CR-175365] 08 p1155 N84-17520
Mechanical properties of a modified 2 1/4 Cr-1 Mo steel for pressure vessel applications
[DE84-004105] 09 p1285 N84-18394
The relationship between electrical conductivity and temperature of aviation turbine fuels containing static dissipator additives
[AD-A135751] 09 p1290 N84-18421
Fire-retardant decorative inks for aircraft interiors
[NASA-TM-85876] 10 p1451 N84-19475
Physical metallurgy and alloy design of dual phase steels
[DE84-005182] 11 p1634 N84-20682
High-temperature deuterated lubricants: Additives, mechanisms, and methods
[AD-A138114] 12 p1801 N84-21743
Radiation damage and defect behavior in ion-implanted, lithium counterdoped silicon solar cells
[NASA-TM-83646] 13 p1985 N84-22890
A study of adherent oxide formation
[AD-A139505] 14 p2123 N84-23722
Zinc electrode morphology in acid electrolytes
[DE84-007184] 14 p2124 N84-23728
Antiwear additive mechanicams in sliding contacts
14 p2154 N84-23906
Behaviors of polymer additives under EHL and influences of interactions between additives on friction modification 14 p2154 N84-23908
What's so hot about formulated synthetics?
14 p2155 N84-23909
Long cycle life secondary lithium cells utilizing tetrahydrofuran
[AD-A140762] 17 p2723 N84-27331
The lead file: Car fuel additives
[INFORM-NOTE-29] 17 p2725 N84-27341
An investigation of chemically-induced improvement in saturation moisture characteristics of epoxies
[NASA-TM-85826] 18 p2809 N84-27834
Nonequilibrium crystal growth during laser annealing of silicon 18 p2939 N84-28639
Hot-pressed silicon nitride with various lanthanide oxides as sintering additives
[NASA-TM-77424] 19 p2985 N84-28916

Injection of drag reducing additives into turbulent water flows: Results from factorial design
[AD-A141675] 19 p3024 N84-29177
Organic azides as jet fuel additives: Synthesis of azides and micro-explosion characteristics of droplets
20 p3144 N84-29963
Advantages of metallic fuels for rocket propulsion
21 p3348 N84-31237
The effects of lithium counterdoping on radiation damage and annealing in n(+)p silicon solar cells
[NASA-TM-83755] 21 p3390 N84-31513
Status of the development of a long-life engine coolant system
[AD-A143098] 21 p3413 N84-31642
Experiments in development of powerful dye laser
21 p3486 N84-32095
Studies of hydrogenated amorphous silicon
[DE84-011686] 21 p3505 N84-32211
Microbiology and food program
22 p3529 N84-32999
Effect of surface doping on the oxidation of chromia former alloys
[DE84-013390] 22 p3667 N84-33247
A modified tritium trick technique for doping vanadium alloys with helium
[DE84-014267] 23 p3720 N84-33581
Flat-plate solar array project process development area, process research of non-CZ silicon material
[NASA-CR-173926] 23 p3786 N84-34012
Development of metallization process
[NASA-CR-173943] 23 p3789 N84-34031
Optical and electrical characterization of multiply doped silicon: A study of the Si:(In, Al) system
[AD-A143820] 23 p3830 N84-34294
The effects of impurities and additives on the growth of polycrystalline TNT
[MRL-R-916] 24 p3890 N84-34629
Investigation of thermal coking rates of Air Force jet fuels
[AD-A144421] 24 p3890 N84-34631

ADDRESSING
A fuzzy relational inference language for expert systems
[AD-P002380] 14 p2196 N84-24171

ADENINES
NT RIBONUCLEIC ACIDS

ADENOSINE TRIPHOSPHATE
Calcium modulation of plant plasma membrane-bound ATPase activities 02 p0263 N84-11723
Cellular localization of Na(+), K(+)-ATPase in the mammalian vestibular system 09 p1359 N84-18880
Effects of insulin and hydrocortisone on energy metabolism in rats irradiated with fast, 60 MeV neutrons
22 p3630 N84-33002

ADENOSINES
NT ADENOSINE TRIPHOSPHATE

ADHEROMETERS
U ADHESION TESTS

ADHESION
Durability and failure analyses of a silane treated Alpha-Al2O3/Polyethylene joint in wet environment
[AD-A136089] 09 p1333 N84-18705
Solar Thermal Technology Program: Polymer synthesis and characterization subtask, FY 1983
[DE84-000094] 10 p1530 N84-20022
Pretreatment of Kapton-coated cable for epoxy adhesion
[DE84-006265] 11 p1661 N84-20837
Characterization and measurement of polymer wear
[NASA-TM-83628] 12 p1800 N84-21739
Determination of the effect of composition, structure and electrochemical mass transport properties on adhesion and corrosion inhibition of paint films
[AD-A138487] 12 p1801 N84-21746
Solar cell metallization: Historical perspective
12 p1838 N84-21981
The biochemistry and physiology of bacterial adhesion to surfaces
[AD-A138271] 13 p2019 N84-23094
Mechanical behavior of surface aminated polyaramid fabric/epoxy composites
[DE84-006230] 14 p2120 N84-23706
A study of adherent oxide formation
[AD-A139505] 14 p2123 N84-23722
Future directions of research in adhesion and friction. Status of understanding 14 p2153 N84-23896
Considerations in friction and wear
14 p2154 N84-23903
Tribology in the 80's. Volume 2: Sessions 5 - 8
[NASA-CP-2300-VOL-2] 15 p2340 N84-25047
Research and development on the encapsulation of solar cells with improved potting and cover materials
[BMFT-FB-T-83-309] 15 p2363 N84-25175
Study of erythrocyte adhesion in cosmonauts
15 p2375 N84-25252
Measurement of the peel and pull-off strength of coatings and finishes with pressure-sensitive tapes
[ESA-PSS-01-713-ISSUE-1] 16 p2472 N84-25847
Science of adhesion
[PB84-176734] 16 p2473 N84-25852
Proceedings of the 5th Symposium on applied surface analysis
[AD-A140744] 17 p2768 N84-27576
A fundamental approach to the sticking of insect residues to aircraft wings
[NASA-CR-173721] 18 p2791 N84-27717
The role of chemical bonding in adhesion
[AD-A140937] 18 p2818 N84-27891
Development of an all-metal thick film cost effective metallization system for solar cells
[NASA-CR-173760] 19 p3049 N84-29350
Interfacial interaction and adhesion in composite materials 20 p3144 N84-29961
Aspects of electroless nickel plating on molybdenum
[DE84-006434] 20 p3158 N84-30057
Adhesion between polymers and evaporated gold and nickel films
[NASA-TP-2360] 21 p3369 N84-31379
Metal coating of diamond abrasives (review of foreign patents)
[CSIR-TRANS-1740] 22 p3552 N84-32489
Effect of formation conditions and contact zone structure on adhesion strength of carbide forming metal coatings on diamond
[CSIR-TRANS-1735] 22 p3552 N84-32492
Rigid closed-cell polyimide foams for aircraft applications and foam-in-place technology
[NASA-CR-171805] 22 p3559 N84-32535
Scale effect of fiber strength and properties of fiber-based unidirectional composites
23 p3706 N84-33496
High temperature adhesive silicone foam composition, foam generating system and method of generating foam
[DE84-014315] 23 p3725 N84-33605
The role of material properties in adhesion
[NASA-TM-83792] 24 p3888 N84-34619

ADHESION TESTS
A critical study of the role of the surface oxide layer in titanium bonding
[NASA-CR-174531] 01 p0041 N84-10266
Adhesion studies on ion plated TiN steel
[BLL-RISLEY-TR-4880-(9091.9F)]
08 p1129 N84-17341
Hot melt adhesive pad surface attachment assembly concept for on-orbit operations
[NASA-TM-85771] 12 p1777 N84-21598
Measurement of the peel and pull-off strength of coatings and finishes with pressure-sensitive tapes
[ESA-PSS-01-713-ISSUE-1] 16 p2472 N84-25847
Development of a qualification standard for adhesives used in hybrid microcircuits
[NASA-CR-161978] 18 p2832 N84-27979
Adhesion between polymers and evaporated gold and nickel films
[NASA-TP-2360] 21 p3369 N84-31379
Creep of six glues
[CETIM-1.3N.16.2] 21 p3372 N84-31398

ADHESIVE BONDING
Structural gradient in the silane coupling agent layers and its influence on the mechanical and physical properties of composites
[AD-A130864] 01 p0031 N84-10197
A critical study of the role of the surface oxide layer in titanium bonding
[NASA-CR-174531] 01 p0041 N84-10266
Durable copper polyimide adhesive bonds
[AD-A130221] 01 p0049 N84-10319
Structure and properties of polymers and organosilanes adsorbed onto oxidized aluminum and titanium
[AD-A130753] 01 p0050 N84-10321
Material characterization of structural adhesives in the lap shear mode
[NASA-CR-172237] 02 p0199 N84-11294
Investigation on the oxide layer of aluminium with respect to adhesive bonding
[MBB-BB-530-82-OE] 02 p0202 N84-11315
Continuous plasma treatment and resin impregnation of a high-strength fiber material
[DE84-000314] 04 p0492 N84-13229
Characterization of aluminum oxide layers (pretreatment of plated aluminum sheet metal for adhesive bonding)
[MBB-BB-549/83-O] 07 p0977 N84-16330
Processing study of a polyimidesulfone adhesive
[NASA-TM-85742] 07 p0978 N84-16339
Effect of amine surface treatment on the adhesion of a polyurethane to the surface
[AD-A135591] 09 p1288 N84-18406
Viscoelastic analysis of adhesive stresses in bonded joints
[NASA-CR-173243] 09 p1288 N84-18411
Environmental durability of aluminum adhesive joints protected with hydration inhibitors
[AD-A135304] 09 p1288 N84-18412
Resin bonding of structural members
09 p1291 N84-18432
Applications for anaerobic adhesives, with particular reference to the replacement of conventional locking devices 09 p1291 N84-18433
Durability and failure analyses of a silane treated Alpha-Al2O3/Polyethylene joint in wet environment
[AD-A136089] 09 p1333 N84-18705
Mechanical behavior of superplastically formed sandwich panels 10 p1453 N84-19490
Repeatability of mixed-mode adhesive debonding
[NASA-TM-85753] 10 p1464 N84-19565
Durability of adhesive bonds between glass or metal substrates and a polybutadiene-polyurethane
[AD-A137489] 10 p1466 N84-19578
Pullout of a rigid insert adhesively bonded to an elastic half plane
[AD-A137859] 11 p1668 N84-20885
Evaluation of adhesive materials for bonded sheath cable designs 11 p1721 N84-21226
Hot melt adhesive pad surface attachment assembly concept for on-orbit operations
[NASA-TM-85771] 12 p1777 N84-21598
Moisture transport in composites during repair work
[AD-A138658] 13 p1954 N84-22703
Ceramic-to-metal bonding for pressure transducers
[NASA-CR-173500] 13 p1963 N84-22753
Tribology in the 80's. Volume 1: Sessions 1 to 4
[NASA-CP-2300-VOL-1] 14 p2152 N84-23891
Metallic adhesion and bonding
14 p2153 N84-23897
Future direction of research in wear and wear resistant materials. Status of understanding
14 p2153 N84-23900
Anodic oxide formation on Ti-6Al-4V in chromic acid for adhesive bonding
[AD-A140057] 15 p2298 N84-24790
Development of capsular adhesive systems and evaluation of their stability
[AD-A140083] 15 p2302 N84-24816
Sputtering as a technique for applying tribological coatings 15 p2342 N84-25059
Rubber to backing bond strength for stave bearings
[AD-A140513] 16 p2499 N84-26033
Effect of preforming adherends on static and fatigue strength of bonded composite single-lap joints
[NASA-TP-2324] 16 p2501 N84-26053
Characterization of aluminum oxide layers
[MBB-BB-549-83-O] 16 p2561 N84-26433
Durability of structural adhesively bonded systems
[AD-A140714] 17 p2626 N84-26805
Finite element analysis of bonded joints
[AD-A140559] 17 p2680 N84-27068
Durability of adhesive bonds with ionic bonds at the interface — propellant binder adhesion
20 p3144 N84-29960
Rapid adhesive bonding concepts
[NASA-TM-86256] 20 p3145 N84-29968
Adhesive bond and composite strength screening system developmental study
[FZM-7184] 20 p3161 N84-30073
The effects of strain rate and temperature on the fracture behavior of three structural adhesives
[AD-B084418] 20 p3164 N84-30097
Bonding prospectives in Japan
[CETIM-100-14-0] 21 p3372 N84-31397
Nondestructive testing of bonding by ultrasonic analysis: Preliminary study report proposed investigation program — metal bonding
[CETIM-13-V-010] 21 p3416 N84-31660
Structural pressure sensitive silicone adhesives
[NASA-CASE-LAR-13270-1] 22 p3558 N84-32532
Swedish research in high-temperature ceramics, superalloys 22 p3651 N84-33142
Structure and properties of polymers and organosilanes absorbed onto oxidized aluminum and titanium
[AD-A143935] 23 p3724 N84-33599
Impacting device for testing insulation
[NASA-CASE-MFS-25862-2] 23 p3756 N84-33807
Analysis of the double overlap fatigue specimen
[ARL-STRUC-REPT-402] 23 p3760 N84-33833
The use of adhesive-bonded rivets to lessen the reductions in fatigue life caused by rivet holes
[ARL-STRUC-REPT-399] 24 p3887 N84-34617
The role of material properties in adhesion
[NASA-TM-83792] 24 p3888 N84-34619

ADHESIVES
NT GLUES
NT PASTES
NT TETRAETHYL ORTHOSILICATE
A critical study of the role of the surface oxide layer in titanium bonding
[NASA-CR-174531] 01 p0041 N84-10266

Long term evaluation of the effects of shale oil produced JP-4 on aircraft construction materials
[AD-A131665] 03 p0331 N84-12161
Surface contact wear and abrasive wear in lubricated sliding mechanisms 04 p0543 N84-13573
Research on composite materials for structural design
[AD-A134059] 05 p0645 N84-14242
Hot melt recharge system — repairing damaged or missing tiles on space shuttle orbiter
[NASA-CASE-LAR-12881-1] 05 p0658 N84-14323
Nonlinear viscoelastic characterization of structural adhesives
[NASA-CR-172279] 06 p0809 N84-15268
Development or a solar cell covergiass adhesive for space application
[BMFT-FB-W-83-029] 06 p1181 N84-17695
Resin bonding of structural members
09 p1291 N84-18432
Applications for anaerobic adhesives, with particular reference to the replacement of conventional locking devices 09 p1291 N84-18433
Hot melt adhesive pad surface attachment assembly concept for on-orbit operations
[NASA-TM-85771] 12 p1777 N84-21598
Ring tensile test of modified Halthane 88-2
[DE84-005891] 12 p1802 N84-21750
High temperature adhesives for structural applications: A review — aircraft engines
[PNR-90171] 13 p1965 N84-22767
High performance composites and adhesives for V/STOL aircraft
[AD-A139168] 14 p2119 N84-23702
The effect of the space environment on composite materials (A0138-9) 15 p2272 N84-24641
Measurement of the peel and pull-off strength of coatings and finishes with pressure-sensitive tapes
[ESA-PSS-01-713-ISSUE-1] 16 p2472 N84-25847
The cleaning of GUIDE-SPACE D96 tape
[ESA-PSS-01-732-ISSUE-1] 16 p2477 N84-25882
Development of a qualification standard for adhesives used in hybrid microcircuits
[NASA-CR-161978] 18 p2832 N84-27979
Microbial evaluation of some adhesive formulations and adhesive bases
[AD-A141659] 19 p2999 N84-29005
The role of boundary layer capacitance at blocking electrodes in the interpretation of dielectric cure data in adhesives
[AD-A142188] 19 p3016 N84-29121
Bonding prospectives in Japan
[CETIM-100-14-0] 21 p3372 N84-31397
Method of making compartmented, filament wound, one-piece aircraft fuel tanks
[AD-D011144] 22 p3534 N84-32376

ADIABATIC CONDITIONS
A study of accretion in compact sources: Disk precession and jet helicity 06 p0929 N84-16038
Tropical heat sources and their associated large-scale atmospheric circulation
[INPE-2727-TDL/133] 07 p1032 N84-16697
Studies in RF emission and absorption in EBT plasmas
[DE84-002118] 07 p1076 N84-16996
An experimental estimate of the electron-tunneling distance for some outer-sphere electrochemical reactions
[AD-A139049] 13 p2047 N84-23284
Parameters of a possible FRC adiabatic compression experiment
[DE84-007487] 14 p2230 N84-24371
Changes of phase and waves on depressurization of liquids with high specific heat
[MPIS-MITT-77] 15 p2332 N84-25003
One-dimensional transport code for field-reversed configurations
[DE84-007449] 15 p2411 N84-25477
Prediction of thermal rate constants for combustion reaction
[AD-A140736] 17 p2619 N84-26760
Adiabatic structure in mantle transition zone
18 p2863 N84-28177
The transfer of atoms, ions and molecular groups in solution. Part 3: Monte Carlo methods for the evaluation of rate constants
[AD-A142335] 20 p3147 N84-29983
High-temperature lubricants for minimum-cooled diesel engines
[AD-A142426] 20 p3162 N84-30078
Nonlinear dynamics of resonance-type instability in high-density electron beam: Analytical solution
21 p3483 N84-32074
An RC-1 organic Rankine bottoming cycle for an adiabatic diesel engine
[NASA-CR-168256] 21 p3521 N84-32306
HF prediction using adiabatic invariant theory
[AD-A143239] 22 p3576 N84-32652
Steam bottoming cycle for an adiabatic diesel engine
[NASA-CR-168255] 22 p3676 N84-33304

ADIABATIC DEMAGNETIZATION COOLING
Design of an adiabatic demagnetization refrigerator for studies in astrophysics 06 p0821 N84-15352

ADIABATIC EQUATIONS
Flux diffusion and acceleration in a high current modified betatron
[AD-A141277] 18 p2931 N84-28584

ADIPOSE TISSUES
A survey of body fat content of U.S. Navy male personnel
[AD-A131500] 01 p0113 N84-10736
Anthropometric changes at high altitude
[AD-A140311] 16 p2535 N84-26277

ADJOINTS
An introduction to adjoint techniques
[BAE-BT-11172] 13 p2031 N84-23170

ADJUSTING
A European astro-gravimetric geoid
[SER-B-269] 17 p2727 N84-27355
The computation of an astrogravimetric geoid by adjustment 17 p2727 N84-27357
Temperature controlled adjusting mechanism
[AD-D011077] 21 p3406 N84-31601

ADJUSTMENT
U ADJUSTING

ADMINISTRATION
U MANAGEMENT

ADMITTANCE
U ELECTRICAL IMPEDANCE

ADMIXTURES
Dynamics of freely ascending convective jets initiated by active admixture 11 p1669 N84-20893
Crystallization of cubic boron nitride in the presence of silicon
[CSIR-TRANS-1753] 23 p3829 N84-34289

ADOBE FLATS
U FLATS (LANDFORMS)

ADRENAL GLAND
Morphometric study of rat adrenal medulla during long-term hypokinesia 02 p0260 N84-11705
Mouse adrenal corticosterone content during prolonged exposure to high-intensity stationary magnetic field
15 p2378 N84-25269
Adrenal-hypothalamus-pituitary system reactions in rats cooled in a hypoxic-hypercapnic gas atmosphere
20 p3254 N84-30655

ADRENAL METABOLISM
Mouse adrenal corticosterone content during prolonged exposure to high-intensity stationary magnetic field
15 p2378 N84-25269
Link between blood catecholamine levels and individual features in dynamics of operator error
21 p3456 N84-31929

ADRENALINE
U EPINEPHRINE

ADRENOCORTICOTROPIN (ACTH)
Influence of microwave electromagnetic radiation and certain hormones on osmotic resistance of mouse erythrocytes 20 p3259 N84-30682

ADRIATIC SEA
Some radar measurements in the North Adriatic Sea — clouds 18 p2888 N84-28330

ADSORBENTS
Supercritical fluid regeneration of adsorbents
[PB83-207597] 01 p0058 N84-10377
Adsorbent phosphates
[NASA-TM-76999] 09 p1277 N84-18339
Dual adsorber-capillary column system for gas chromatographic analysis of air samples
[AD-A138305] 12 p1792 N84-21689
The cleaning of ECCOSORB AN foam
[ESA-PSS-01-727-ISSUE-1] 16 p2473 N84-25849

ADSORPTION
NT CHEMISORPTION
Hydrothermal stability of gamma-aminopropyltriethoxysilane coupling agent on ground silicon powder and E-glass fibers
[AD-A130904] 01 p0037 N84-10234
Adsorption of humic acids and trace metals in natural waters
[NASA-CR-174481] 02 p0238 N84-11563
Research and development for investigations of metallic adsorptions on metal surfaces by optical techniques complemented by dc resistivity and auger spectroscopy
[AD-A131739] 03 p0361 N84-12351
International Conference on Vibrations at Surfaces (3rd)
[AD-A131794] 03 p0433 N84-12834
Electrolytic gettering of tritius from air
[DE84-000174] 04 p0496 N84-13252
The organic geochemistry of deep ground waters and radionuclide-partitioning experiment: Under hydrothermal conditions
[DE83-015784] 04 p0554 N84-13651
Study of field adsorption using pulsed-laser atom-probe field-ion microscopy
[DE84-002280] 05 p0687 N84-14513
Optimal design of gas adsorption refrigerators for cryogenic cooling 06 p0820 N84-15348
Atomic hydrogen maser investigations of hydrogen atom interactions from 4 K to 12 K
[AD-A134917] 08 p1165 N84-17582
Degradation of evaporated aluminum films for solar reflectors
[DE84-005341] 10 p1530 N84-20021
Mitigation of biofouling using coatings
[DE84-006112] 11 p1693 N84-21041
Study of the effect of adsorbed ions on the electrosorption of organic molecules and the kinetics of formation of condensed films
[AD-A137892] 11 p1730 N84-21286
Particulate models of photosynthesis
[DE84-003947] 12 p1863 N84-22142
Surface-enhanced Raman spectroscopy of electrochemically characterized interfaces. Relations between Raman scattering intensity and surface coverage for simple anionic adsorbates
[AD-A139054] 13 p1957 N84-22721
A method for evaluating the surface concentrations of 2 like-charged ions simultaneously adsorbed at an electrode-solution interface
[AD-A139074] 13 p1957 N84-22724
Adsorption and catalyzed reactions of CO and CO2 on graphite surfaces
[DE84-006625] 14 p2123 N84-23725
Adsorption of hydrocyanic acid on Lewis acid sites of silicon dioxide 17 p2620 N84-26767
Application of the finite compartment model of carbon adsorption to binary systems
[AD-A141483] 19 p2988 N84-28932
Nuclear magnetic resonance study of the structure of simple molecules adsorbed on metal surfaces: Acetylene on platinum
[DE84-008661] 19 p2996 N84-28981
Surface-enhanced Raman spectroscopy of electrochemically characterized interfaces. Transition-metal isothiocyanate adsorbates at silver adsorbates
[AD-A142407] 20 p3148 N84-29986
Pulsed-laser atom-probe studies of surface chemical reactions
[DE84-012811] 20 p3151 N84-30007
Thickener/fluid interaction in lubricating greases
[AD-A142276] 20 p3161 N84-30076
Chemical attenuation rates, coefficients, and constants in leachate migration. Volume 1: A critical review
[DE84-009432] 20 p3238 N84-30557
Optical second-harmonic generation for surface studies
[DE84-010718] 20 p3300 N84-30958
Vibrational spectra of CO on Ni(100) studied by infrared emission spectroscopy
[DE84-009246] 21 p3362 N84-31327
Chemical reaction dynamics at surfaces
22 p3681 N84-33340
Extensions of electron stimulated desorption measurements. Investigation of gas adsorption on Cu layers depoeited on a tungsten (110) surface
[AD-A143779] 23 p3714 N84-33539
Structure and properties of polymers and organosilanes absorbed onto oxidized aluminum and titanium
[AD-A143935] 23 p3724 N84-33599
Spectroscopy of adsorbates by transient laser calorimetry
[AD-A144473] 24 p3880 N84-34584

ADVANCED X RAY ASTROPHYSICAL FACILITY
U X RAY ASTROPHYSICS FACILITY

ADVANCED X RAY ASTROPHYSICS FACILITY
U X RAY ASTROPHYSICS FACILITY

ADVANCING GLACIERS
U GLACIERS

ADVANCING SHORELINES
U BEACHES

ADVECTION
Numerical experiments on the formation and maintenance of cirriform clouds
02 p0252 N84-11649
Calculation of natural convection within a heated enclosure using the method of second moments
[DE84-001596] 04 p0535 N84-13517
Development of a technique for short-term prediction of hydrometeors using advection and physical forcing
[AD-A132259] 04 p0567 N84-13740
Growth processes of snow
[AD-A133136] 06 p0866 N84-15639
The advection of submesoscale thermal features in the Alboran Sea Gyre
[AD-A133877] 06 p0884 N84-15749

Empirically derived second order schemes for the advection equations with minimum dissipation and dispersion errors 12 p1853 N84-22073
A second order upwind flux method for hyperbolic conservation laws
[AD-A139769] 15 p2332 N84-25008
Design considerations for MST radar antennas 17 p2693 N84-27153
The application of satellite data to study the effects of latent heat release on cyclones 24 p3925 N84-34841

AERATION
Computer program for prediction of the deposition of material released from fixed and rotary wing aircraft
[NASA-CR-3780] 11 p1600 N84-20482
Numerical studies of the deposition of material released from fixed and rotary wing aircraft 11 p1602 N84-20491
Development of standard procedures for evaluating oxygen transfer devices
[PB84-147438] 12 p1846 N84-22032
Lubricant foaming and aeration study, part 1
[AD-A141298] 18 p2819 N84-27896

AERIAL EXPLOSIONS
Description of optical measurement techniques for the interaction of shock waves with objects
[PML-1983-10] 12 p1904 N84-22401
Effects of airblast atomizer design upon spray quality 15 p2290 N84-24744
Liquid fuel atomization and mixing in a high velocity air stream 15 p2291 N84-24746
Air blast loadings on building elements from detonating 8.4 Kg Comp high explosive charges
[FOA-C-20522-D4] 15 p2349 N84-25102
Evaluation of methodologies for estimating vulnerability to electromagnetic pulse effects
[AD-A144408] 24 p3894 N84-34663

AERIAL IMAGERY
U AERIAL PHOTOGRAPHY

AERIAL PHOTOGRAPHY
Evaluation of some remote sensing techniques for oil and crop management 02 p0234 N84-11538
Evaluation of controlling low altitude aerial photography using high altitude aerotriangulation 02 p0234 N84-11539
The synthesized climatic function map 03 p0400 N84-12617
Aerial radiological survey of Area 11, Nevada Test Site
[DE84-000440] 04 p0554 N84-13650
The hardwood resource on nonindustrial private forest land in the southeast Piedmont
[PB83-252759] 04 p0556 N84-13663
Forest statistics for southwest-south Alabama counties, Forest Service resource bulletin
[PB83-249763] 04 p0556 N84-13664
Image understanding research and its application to cartography and computer-based analysis of aerial imagery
[AD-A133495] 06 p0866 N84-15642
Photogrammetric method for determining geometric visual perception
[FOA-C-20478-D8] 07 p1006 N84-16539
Evaluation of published criteria for identifying metamorphic rocks on air photos: Two case studies in the northeastern United States
[AD-A135451] 08 p1177 N84-17672
Simulation of Thematic Mapper data for remote bathymetry
[AD-A136377] 09 p1337 N84-18726
Benefits from satellite programs cited 12 p1776 N84-21584
Enviropod handbook: A guide to preparation and use of the Environmental Protection Agency's light-weight aerial camera system — Weber River, Utah
[E84-10123] 14 p2168 N84-23982
Aerial photography for ecological site mapping 14 p2169 N84-23990
Experiments to correct a digital map data base using scene analysis
[AD-A139447] 14 p2248 N84-24499
Evidence accumulation for spatial reasoning in aerial image understanding
[AD-A139874] 15 p2336 N84-25025
Methodological preliminaries to the development of an expert system for aerial photo interpretation
[AD-A139899] 15 p2336 N84-25027
Correlating aerial photographs to LANDSAT Multispectral Sensor (MSS) data to measure ground control points 15 p2358 N84-25150
Correlation calculation in stereoscopic image pairs for the automatic acquisition of digital land models, orthopictures and height line planes
[SER-C283] 16 p2505 N84-26079
Fisheye objective in the dose range photogrammetry: Theoretical and practical investigations
[SER-C-286] 16 p2505 N84-26080
Cartographic feature extraction on ETL's (Engineer Topographic Laboratories') DIAL (Digital Image Analysis Laboratory) system
[AD-A140230] 16 p2511 N84-26112
The use of photointerpretation for socio-economic characterization of urban population
[INPE-3067-PRE/484] 16 p2561 N84-26428
Contributions to imaging quality and heighting accuracy of aerial cameras used at fairly high altitudes 19 p3040 N84-29284
Evidence accumulation for spatial reasoning
[AD-A142174] 19 p3042 N84-29302
Interpreting spectra of sea surface aerial photographs 20 p3225 N84-30494
Cooperative line extraction of aerial photos and maps 20 p3226 N84-30502
Meteorological research and support for the MIZEX (Marginal Ice Zone Experiment) program
[AD-A142409] 20 p3245 N84-30598
Terrain analysis procedural guide for built-up areas (report no. 13 in the ETL (Engineer Topographic Laboratories) series on guides for Army terrain analysts)
[AD-A142918] 21 p3431 N84-31768
Fast automatic reconnaissance in land observations images by means of analog and/or digital images 23 p3768 N84-33885
Evaluation of the use of thermal airborne prospection for archaeology during the last 10 years 23 p3769 N84-33890
An analysis of the effect of biological and physical parameters of a wetlands grass biome on the spectral modeling of phytomass and primary productivity 23 p3769 N84-33891

AERIAL RECONNAISSANCE
Research facilities report, fiscal year 1982
[PB83-224857] 01 p0110 N84-10713
Uranium anomalies in Wyoming and parts of adjacent states. National Uranium Resource Evaluation
[DE83-005353] 06 p0866 N84-15638
Design of a remotely controlled hovercraft vehicle for spill reconnaissance
[PB84-124064] 08 p1105 N84-17187
Multi-dimensional signal processing research program
[AD-A135732] 09 p1302 N84-18511
Earth Resources: A continuing bibliography with indexes, issue 40
[NASA-SP-7041(40)] 09 p1336 N84-18723
An evaluation of 700 mb aircraft reconnaissance data for selected Northwest Pacific tropical cyclones
[AD-A137362] 10 p1540 N84-20089
Earth Resources: A continuing bibliography with indexes
[NASA-SP-7041(41)] 14 p2166 N84-23975
EPA Enviropod. A summary of the use of the Enviropod under a Memorandum of Understanding among EPA Region 8, the State of Utah, and the University of Utah Research Institute
[E84-10124] 14 p2168 N84-23983
The research of National Defence's (FOA) future policy document on space technology
[FOA-A-30034-E1] 15 p2265 N84-24602
Sampling system for wheat (Triticum aestivum L) area estimation using digital LANDSAT MSS data and aerial photographs — Brazil
[E84-10139] 16 p2506 N84-26087
Forest inventory using multistage sampling with probability proportional to size — Brazil
[E84-10144] 16 p2507 N84-26092
Achievements of Kamov helicopter design bureau 17 p2598 N84-26653
Ocean waves and turbulence as observed with an adaptive coherent multifrequency radar 17 p2714 N84-27279
Measurements of ocean wave spectra and modulation transfer function with the airborne two frequency scatterometer 17 p2715 N84-27282
Airship proof-of-concept evaluation
[AD-A141759] 19 p2959 N84-28753
Earth resources, a continuing bibliography with indexes
[NASA-SP-7041(42)] 21 p3425 N84-31725
Quantitative interpretation of aeromagnetic anomalies in the Sinclinal Gandarela
[INPE-3070-PRE/487] 22 p3614 N84-32898
A comparative study of different products of sensor systems applied in a lithologic-structural analysis of the Quadrilatero Ferrifero area, Minas Gerais
[INPE-3210-TDL/174] 23 p3764 N84-33856
Parametric analysis of synthetic aperture radar data acquired over truck garden vegetation 23 p3767 N84-33878

AERIAL RUDDERS
Determination of elevator and rudder hinge forces on the Learjet model 55 aircraft 06 p0860 N84-15804
Space Shuttle Orbiter rudder/speed brake actuation system 09 p1295 N84-18481

AEROACOUSTICS
Aeroacoustics: Ten Years of Research — conferences
[VKI-LS-1983-05] 06 p0767 N84-15025
Helicopter noise 06 p0767 N84-15027
A review of source location/assessment techniques — aeroacoustics 06 p0767 N84-15029
Generation of sound in turbulent shear flows 06 p0768 N84-15031
Instrumentation and signal analysis — aeroacoustics 06 p0768 N84-15032
Mach 0.6 to 3.0 flows over rectangular cavities
[AD-A134579] 06 p0782 N84-15121
Mach 0.6 to 3.0 flows over rectangular cavities
[AD-A134579] 07 p0948 N84-16153
Helicopter impulsive noise: Theoretical and experimental status
[NASA-TM-84390] 09 p1386 N84-19050
Acoustic radiation from a semiinfinite annular duct in a uniform subsonic mean flow
[NLR-MP-82045-U] 09 p1387 N84-19059
Turbulence generated pressure fluctuations in a class of interior flows 10 p1423 N84-19306
In-flight acoustic testing techniques using the YO-3A Acoustic Research Aircraft
[NASA-TM-85895] 10 p1427 N84-19334
Kinematics, influence functions and field quantities for disturbance propagation from moving disturbance sources
[NASA-TM-77410] 11 p1601 N84-20489
Initial experiments on profile vortex interaction — helicopter noise
[MPIS-6/1983] 12 p1766 N84-21520
Development of baseline random vibration environment criteria for Shuttle pallet payload subsystems
[NASA-TM-86087] 14 p2113 N84-23666
A theoretical prediction of the acoustic pressure generated by turbulence-flame front interactions
[NASA-TM-83587] 16 p2553 N84-26383
A critical review of noise production models for turbulent, gas-fueled burners
[NASA-CR-3803] 16 p2554 N84-26384
A new method for determining acoustic-liner admittance in a rectangular duct with grazing flow from experimental data
[NASA-TP-2310] 17 p2762 N84-27543
Noise path identification using face-to-face and side-by-side microphone arrangements
[NASA-CR-173708] 18 p2928 N84-28569
Aerodynamic predictions II 19 p3098 N84-29681
Effect of boattail geometry on the acoustics of parallel baffles in ducts
[NASA-TM-85981] 19 p3099 N84-29686
Acoustic pressures emanating from a turbomachine stage
[NASA-TM-83734] 20 p3183 N84-30224
The influence of a wind tunnel on helicopter rotational noise: Formulation of analysis
[NASA-TM-85982] 20 p3290 N84-30887
Results of the AFRSI detailed-environment test of the 0.035-scale SSV pressure-loads model 84-0 in the Ames 11x11 ft. TWT and the Lewis 8x6 ft. and 10x10 ft. SWT (OA-310A, B, C), volume 2
[NASA-CR-167686] 21 p3351 N84-31260
Results of the AFRSI detailed-environment test of the 0.035-scale SSV pressure-loads model 84-0 in the Ames 11x11 ft. TWT and the Lewis 8x6 ft. and 10x10 ft. SWT (OA-310A, B, C), volume 1
[NASA-CR-167685] 21 p3352 N84-31261

AEROBRAKING
Mission and trajectory design for the Venus orbiting imaging radar 19 p3120 N84-29831

AERODYNAMIC AXIS
U AERODYNAMIC BALANCE

AERODYNAMIC BALANCE
Rotary balance data for a typical single-engine general aviation design for an angle-of-attack range of 20 to 90 deg. 3: Influence of control deflection on predicted model D spin modes
[NASA-CR-3248] 16 p2438 N84-25641
Magnetic suspension and balance system study
[NASA-CR-3802] 20 p3132 N84-29888
Thrust balance efficiency measurements for a pulsed inductive thruster 20 p3139 N84-29930

AERODYNAMIC BRAKES
NT DRAG CHUTES
NT SPLIT FLAPS
NT TRAILING-EDGE FLAPS
NT WING FLAPS

AERODYNAMIC BUZZ
U FLUTTER

AERODYNAMIC CENTER
U AERODYNAMIC BALANCE
AERODYNAMIC CHARACTERISTICS
NT AERODYNAMIC BALANCE
NT AERODYNAMIC DRAG
NT AERODYNAMIC STABILITY
NT INTERFERENCE DRAG
NT LIFT
NT SUPERSONIC DRAG
NT ZERO LIFT

Subsonic high-angle-of-attack aerodynamic characteristics of a cone and cylinder with triangular cross sections and a cone with a square cross section
[NASA-TM-84377] 01 p0003 N84-10019

Aerodynamics of advanced axial-flow turbomachinery
[AD-A131360] 01 p0012 N84-10073

Special Course on Aerodynamic Characteristics of Controls
[AGARD-R-711] 01 p0013 N84-10082

Introductory remarks and review of 1979 symposium
01 p0013 N84-10083

The aerodynamics of aircraft control: A general survey in the context of active control technology
01 p0013 N84-10084

Mathematical modelling and theoretical methods for the aerodynamic behaviour of control devices
01 p0013 N84-10085

Dynamic effects of controls 01 p0013 N84-10086

Experimental methods to determine control effectiveness in wind tunnels 01 p0013 N84-10087

Control of advanced fighter aircraft
01 p0014 N84-10089

Direct force control 01 p0014 N84-10090

Aerodynamic characteristics of missile controls
01 p0014 N84-10092

Launch vehicle aerodynamic flight test results
01 p0019 N84-10119

Aerodynamic analysis of the loft anomaly observed on orbital flight tests of the space shuttle
01 p0019 N84-10120

Techniques for assessment of ascent aerodynamic characteristics of the space shuttle launch system
01 p0019 N84-10121

Space shuttle entry longitudinal aerodynamic comparisons of flights 1-4 with preflight predictions
01 p0020 N84-10128

A review of preflight estimates of real-gas effects on space shuttle aerodynamic characteristics
01 p0020 N84-10129

Approach to establishing the effect of aeroelasticity on aerodynamic characteristics of the space shuttle orbiter
01 p0021 N84-10133

Remotely driven model control surfaces for efficient wind-tunnel operations 01 p0022 N84-10139

Fluid dynamic mechanisms and interactions within separated flows and their effects on missile aerodynamics
[AD-A130831] 01 p0079 N84-10514

Data acquisition for stall/spin flight research
02 p0169 N84-11111

A computer program for estimating the aerodynamic characteristics of NACA 16-series airfoils
[NASA-TM-85696] 02 p0174 N84-11145

Wind tunnel wall interference
[AD-A131396] 02 p0175 N84-11149

An approach to experimental investigation of jet plume effects on missile aerodynamics
[AD-A131336] 02 p0186 N84-11210

Aerodynamic design for overall vehicle performance
03 p0318 N84-12077

Predicting aerodynamic characteristics of vortical flows on three-dimensional configurations using a surface-singularity panel method
03 p0323 N84-12112

The Tracked Wing In Ground-Effect (TWIG)
03 p0330 N84-12155

Aerodynamic characteristics, including effect of body shape, of a Mach 6 aircraft concept
[NASA-TP-2235] 04 p0481 N84-13164

A preliminary study of solar powdered aircraft and associated power trains
[NASA-CR-3699] 04 p0486 N84-13194

Some aerodynamic characteristics of a projectile shape with a nonaxisymmetric boattail at Mach numbers of 0.91 and 3.02
[AD-A133755] 05 p0627 N84-14125

Douglas Aircraft Company Advanced Concept Ejection Seat (ACES 2), revision c
[AD-A133628] 05 p0628 N84-14131

A study of helicopter rotor aerodynamics in ground-effect at low speeds 06 p0779 N84-15106

Aerodynamics, aeroelasticity, and stability of hang gliders 06 p0784 N84-15134

Lectures of a Flight Mechanics Conference — conferences
[DFVLR-MITT-83-05] 07 p0944 N84-16120

Helicopter flying qualities characteristics-CH-46E, volume 2
[AD-A134321] 07 p0951 N84-16171

Helicopter flying qualities characteristics-CH-46E, volume 3
[AD-A134322] 07 p0951 N84-16172

Transactions of the Japan Society for Aeronautical and Space Sciences, vol. 26, no. 73, November 1983
[ISSN-0549-3811] 07 p0984 N84-16374

Quasi-doublet-lattice method for oscillating thin airfoils in subsonic flow 07 p0985 N84-16378

The COREL and W12SC3 computer programs for supersonic wing design and analysis
[NASA-CR-3676] 08 p1096 N84-17130

Aerodynamic characteristics of a Sparrow 3 missile model in the flow field of a generalized parent body at Mach 2.86
[NASA-TM-85713] 08 p1097 N84-17134

Mathematical modeling of the aerodynamic characteristics in flight dynamics
[NASA-TM-85880] 08 p1098 N84-17141

Air Force Academy Aeronautics Digest - Fall/Winter 1982
[AD-A135073] 08 p1099 N84-17145

The 2-dimensional inextensible lifting membrane airfoil, theory and experiment
[AD-A135251] 08 p1099 N84-17147

Rotary wing aircraft and technical publications of NASA, 1970 - 1982
[NASA-TM-85521] 08 p1239 N84-18102

The cumulative exceedance distribution for accelerations due to turbulence encountered by a CT/4A air trainer
[AD-A135640] 09 p1258 N84-18211

A method for aerodynamic and aerothermodynamic conceptual design of capsule type reentry vehicle
[NAL-TR-779] 09 p1272 N84-18309

An analysis of prop-fan/airframe aerodynamic integration
[NASA-CR-152186] 10 p1419 N84-19281

Tests of a NACA 65(sub 1)-213 airfoil in the NASA Langley 0.3-meter transonic cryogenic tunnel
[NASA-TM-85732] 10 p1420 N84-19287

Some unsteady aerodynamic characteristics of separated and attached flow
[AD-A137070] 10 p1422 N84-19300

An evaluation of a mobile aerodynamic test facility for hang glider wings
[COFA-8330] 10 p1432 N84-19361

Adaptive grid generation for numerical solution of partial differential equations
[AD-A136985] 10 p1570 N84-20289

International aviation (selected articles)
[AD-A137617] 11 p1599 N84-20473

Wing planform effects at supersonic speeds for an advanced fighter configuration
[NASA-TP-2269] 11 p1601 N84-20486

Forecasting satellite motion 12 p1775 N84-21583

Dynamic assessment of B-52B-008 carrier aircraft for the revised Space Shuttle solid rocket booster decelerator subsystem drop test vehicle
[NASA-CR-170986] 12 p1779 N84-21606

Computer graphics in aerodynamic analysis
12 p1873 N84-22206

Assessment of aerodynamic performance of V/STOL and STOVL fighter aircraft
[NASA-TM-85937] 13 p1926 N84-22536

Nonadiabatic model wall effects on transonic airfoil performance in a cryogenic wind tunnel
14 p2096 N84-23579

Aerodynamic characteristics of the 40- by 80/80- by 120-foot wind tunnel at NASA Ames Research Center
[NASA-TM-85946] 14 p2104 N84-23622

Low-speed wind-tunnel study of the high-angle-of-attack stability and control characteristics of a cranked-arrow-wing fighter configuration
[NASA-TM-85776] 14 p2110 N84-23654

Multivariable control laws for the AFTI/F-16
[AFIT/GE/EE/83S-4] 15 p2253 N84-24531

The effect of perforation on the aerodynamics of a spoiler
[BU-286] 15 p2255 N84-24545

The aerodynamic effects of cavities in a body
[BU-289] 15 p2256 N84-24547

The structural and aerodynamic behaviour of a semi-inflatable wing
[BU-297] 15 p2260 N84-24574

An aerodynamic study of combustion in the combustion chambers of turbomachines: Experimental and theoretical approaches 15 p2293 N84-24764

Special Course on V/STOL Aerodynamics
[AGARD-R-710] 16 p2436 N84-25625

An investigation of aerodynamic characteristics of wings having vortex flow using different numerical codes
[NASA-CR-173596] 16 p2438 N84-25639

Reynolds number effects on pressure loss and turbulence characteristics of four tube-bundle heat exchangers
[NASA-TM-85807] 16 p2439 N84-25645

Aerodynamic characteristics of fan-jet STOL aircraft
[NAL-TR-790] 16 p2440 N84-25651

A technique for optimizing the aerodynamic design of a generalized combat aircraft with forward swept wings for the purposes of stability and control investigation
[CA-8325] 16 p2448 N84-25700

The development of the Navy variant of the Dauphin 2 helicopter
[SNIAS-832-210-106] 16 p2448 N84-25706

Aerodynamics of sounding rockets at supersonic speeds 16 p2455 N84-25743

Computation of noise radiating from a free jet perpendicular to its axis via laser anemometry measurements
[ONERA-NT-1983-6] 16 p2554 N84-26387

Vortex flap system for thin wings
[MBB-FE-122/S/PUB/102] 16 p2562 N84-26435

Control of separated flowfields using forced unsteadiness 17 p2598 N84-26654

Aerodynamic design using numerical optimization
[NASA-TM-85550] 17 p2599 N84-26661

Advanced prediction technique for the low speed aerodynamics of V/STOL aircraft. Volume 1: Technical discussion
[NASA-CR-166442-VOL-1] 17 p2600 N84-26662

Advanced prediction technique for the low speed aerodynamics of V/STOL aircraft. Volume 2: User's manual
[NASA-CR-166442-VOL-2] 17 p2600 N84-26663

Low-speed investigation of effects of wing leading- and trailing-edge flap deflections and canard incidence on a fighter configuration equipped with a forward-swept wing
[NASA-TM-85795] 17 p2600 N84-26667

STABCAR: A program for finding characteristic root systems having transcendental stability matrices
[NASA-TP-2165] 17 p2751 N84-27461

Aerodynamic characteristics of 2 NASA supercritical airfoils with different maximum thickness
[NASA-TM-X-2532] 18 p2784 N84-27667

Effect of fuselage upwash on the supersonic longitudinal aerodynamic characteristics of 2 fighter configurations
[NASA-TP-2330] 18 p2785 N84-27676

High Reynolds number tests of a Boeing BAC I airfoil in the Langley 0.3-meter transonic cryogenic tunnel
[NASA-TM-81922] 18 p2786 N84-27684

KC-135 Winglet Program Review
[NASA-CP-2211] 18 p2787 N84-27686

KC-135 winglet program overview
18 p2787 N84-27687

Comparison of flight measured, predicted and wind tunnel measured winglet characteristics on a KC-135 aircraft 18 p2787 N84-27691

Two-dimensional aerodynamic characteristics of an airfoil designed for two
[NASA-TP-1965] 18 p2788 N84-27694

Evaluation of aerodynamic admittance of a model bridge oscillating with vertical motion
[NMI-R-175] 18 p2851 N84-28104

Study of transonic flow over swept wings
[NASA-CR-173799] 19 p2956 N84-28734

Study of aerodynamic technology for single-cruise-engine V/STOL fighter/attack aircraft
[NASA-CR-166270] 19 p2956 N84-28738

Wind tunnel tests of high-lift systems for advanced transports using high-aspect-ratio supercritical wings
[NASA-CR-3523] 19 p2957 N84-28742

Two-dimensional aerodynamic characteristics of three rotorcraft airfoils at Mach numbers from 0.35 to 0.90
[NASA-TP-2000] 19 p2957 N84-28743

A ring source method for predicting the aerodynamic characteristics of bodies of revolution
[COA-8409] 19 p2957 N84-28744

Calculation of unsteady aerodynamics for four AGARD standard aeroelastic configurations
[NASA-TM-85817] 19 p2958 N84-28747

Study of aerodynamic technology for single-cruise-engine V/STOL fighter/attack aircraft
[NASA-CR-166269] 19 p2961 N84-28767

An experimental and theoretical analysis of the aerodynamic characteristics of a biplane-winglet configuration
[NASA-TM-85815] 19 p2963 N84-28779

Stator blade row geometry modification influence on two-stage, axial-flow compressor aerodynamic performance
[AD-A141793] 19 p2966 N84-28797

Aerodynamic design and performance of a two-stage, axial-flow compressor (Baseline)
[AD-A141796] 19 p2966 N84-28796

Free jet feasibility study of a thermal acoustic shield concept for AST/VCE application: Single stream nozzles
[NASA-CR-3758] 19 p3096 N84-29661
Implementation of uniform perturbation method for potential flow past axisymmetric and two-dimensional bodies
[NASA-CR-173829] 20 p3125 N84-29851
Application of sensitivity analysis to aerodynamic parameters of a bank to turn missile
[AD-A141940] 20 p3134 N84-29899
Potential application of artificial concepts to aerodynamic simulation
[NASA-TM-85976] 21 p3324 N84-31093
A review of some Reynolds number effects related to bodies at high angles of attack
[NASA-CR-3809] 21 p3325 N84-31097
Aerothermodynamic data base, phase C
[NASA-CR-173862] 21 p3351 N84-31259
Splash and spray from road vehicles and associated topics: A bibliography
[CAR-8425] 21 p3398 N84-31557
Aerothermodynamic data base
[NASA-CR-171807] 22 p3541 N84-32415
Investigation into the internal aerodynamic design and associated errors in a fast descent ducted sonde for the measurement of atmospheric pressure and temperature (AMPARS phase 2)
[AD-A143189] 22 p3625 N84-32969
Experimental investigation of shock-cell noise reduction for single-stream nozzles in simulated flight, comprehensive data report. Volume 2: Laser velocimeter data
[NASA-CR-168234-VOL-2] 22 p3652 N84-33149
High Reynolds number tests of the cast 10-2/DOA 2 airfoil in the Langley 0.3-meter transonic cryogenic tunnel, phase 2
[NASA-TM-86273] 23 p3689 N84-33382
Flight operation manual for the MI-8 helicopter
[AD-A143860] 23 p3693 N84-33407
Design study of test models of maneuvering aircraft configurations for the National Transonic Facility (NTF)
[NASA-CR-3827] 23 p3696 N84-33422
GROB G-112: Flight testing fulfils expectations
[NASA-TM-77745] 24 p3854 N84-34438

AERODYNAMIC CHORDS
U AIRFOIL PROFILES

AERODYNAMIC COEFFICIENTS
Flight measurements of hinged-plate wing-spoiler hinge moments — dhc-6 Twin Otter series 100 aircraft
[NASA-TM-84343] 01 p0003 N84-10021
Aerodynamic coefficient identification package dynamic data accuracy determinations: Lessons learned 01 p0022 N84-10138
Subsonic longitudinal performance coefficient extraction from shuttle flight data: An accuracy assessment for determination of data base updates 01 p0026 N84-10163
Dynamic-stall regulation of the Darrieus turbine
[DE83-017994] 03 p0321 N84-12097
Vortex flow simulations past wings using the Euler-equations 03 p0324 N84-12118
Triservice program for extending missile aerodynamic data base and prediction program using rational modeling
[AD-A132455] 04 p0481 N84-13166
Interacting boundary-layer solutions for laminar separated flow past airfoils
[NASA-CR-172287] 07 p0946 N84-16140
A recontoured, upper surface designed to increase the maximum lift coefficient of a modified NACA 65 (0.82) (9.9) airfoil section
[NASA-TM-85855] 08 p1099 N84-17144
An analytical design procedure for the determination of effective leading edge extensions on thick delta wings
[NASA-CR-172351] 10 p1419 N84-19284
Use of adaptive walls in 2D tests
[NASA-TM-77360] 10 p1432 N84-19359
Data acquisition and aerodynamic coefficient estimation at high angles of attack 13 p1927 N84-22542
Calculation of aerodynamic characteristics of wings with thickness and camber by a new method based on the modified vortex lattice method
[TAE-493] 16 p2438 N84-25640
Immersion of disk in compressible fluid at angle to free surface 17 p2647 N84-26930
Effect of elastically suspended masses on stability of elastic panels in supersonic stream 17 p2650 N84-26949
Method to estimate drag coefficient at the air/ice interface over drifting open pack ice from remotely sensed data 17 p2720 N84-27310
Wave propagation from moving singularities and a unified exposition of the linearized theory for aerodynamics and acoustics
[DFVLR-FB-84-17] 19 p3010 N84-29080

AERODYNAMIC CONFIGURATIONS
NT WING NACELLE CONFIGURATIONS
Launch vehicle aerodynamic data base development comparison with flight data 01 p0018 N84-10117
Navier-Stokes computational study of the influence of shell geometry on the Magnus effect at supersonic speeds
[AD-A130630] 01 p0079 N84-10516
Computational methods for subsonic and transonic aerodynamic design 03 p0317 N84-12074
Aerodynamic design for overall vehicle performance 03 p0318 N84-12077
Transonic empirical configuration design process 03 p0318 N84-12079
Transonic configuration design 03 p0318 N84-12081
Experimental aerodynamic characteristics of missiles with square cross sections
[AD-A132278] 04 p0489 N84-13215
Optimization of waverider configurations generated from non-axisymmetric flows past a nearly circular cone 06 p0780 N84-15108
Computational procedures in transonic aerodynamic design
[NLR-MP-82020-U] 06 p0783 N84-15131
The drag of magnetically suspended wind-tunnel models with nose-cones of various shapes
[NASA-TM-77325] 07 p0946 N84-16137
SUN WORSHIPER: McCready's Solar Challenger flies over the English Channel
[NASA-TM-77327] 07 p0950 N84-16166
High altitude aerodynamic platform concept evaluation and prototype engine testing
[NASA-TM-58256] 07 p0953 N84-16182
A study of prediction methods for the high angle-of-attack aerodynamics of straight wings and fighter aircraft
[NASA-CR-3764] 08 p1097 N84-17131
Airloads research study. Volume 2: Airload coefficients derived from wind tunnel data
[NASA-CR-170410] 08 p1103 N84-17174
STEP mechanical systems 08 p1109 N84-17213
Aerodynamic design for improved manueverability by use of three-dimensional transonic theory
[NASA-TP-2282] 09 p1250 N84-18161
An investigation of new possibilities to simplify the standard supersonic area rule
[AD-A137018] 10 p1422 N84-19297
An experimental investigation of the aerodynamic effects of forward facing wedges on the upper surface and leading edge of an aerofoil, with emphasis on high angles of attack
[ARL-AERO-TECH-MEMO-356] 11 p1599 N84-20477
Wingtip vortex propeller
[NASA-CASE-LAR-13019-1] 11 p1602 N84-20495
The present calculation method of adhering layers on aircraft wings
[AD-A137585] 11 p1602 N84-20496
Investigation of operational and design factors resulting from main rotor and tail rotor interactions
[AD-A137710] 11 p1603 N84-20497
Computational methods for subsonic and transonic aerodynamic design
[AD-B079994] 12 p1767 N84-21524
Dynamic assessment of B-52B-008 carrier aircraft for the revised Space Shuttle solid rocket booster decelerator subsystem drop test vehicle
[NASA-CR-170989] 12 p1779 N84-21606
A collection of procedures for defining airplane surfaces for input to PANAIR 12 p1875 N84-22220
The computation of mesh configurations for three-dimensional flow analysis 12 p1875 N84-22221
Evaluation of 3-D graphics software: A case study 12 p1875 N84-22222
Using a commercial CAD system for simultaneous input to theoretical aerodynamic programs and wind-tunnel model construction 12 p1875 N84-22223
The design and operational development of self-streamlining 2-dimensional flexible walled test sections
[NASA-CR-172328] 13 p1926 N84-22534
Development and analysis of a STOL supersonic cruise fighter concept
[NASA-TM-85777] 13 p1930 N84-22553
Transonic flow around protruding corner with free streamline 13 p1972 N84-22796
The new calibration tank for engine simulators at DFVLR Goettingen 14 p2099 N84-23593
Recent developments in store separation and grid survey techniques using the ARA Two-Sting Rig 14 p2099 N84-23595
Recent developments in the measurement of time-dependent pressures 14 p2100 N84-23601
Investigation of aerodynamics of non axisymmetric projectiles
[AD-A139107] 14 p2101 N84-23609
Development of MCAERO wing design panel method with interactive graphics module
[NAS 1.60:3775] 14 p2104 N84-23623
Aeropropulsive characteristics of nonaxisymmetric-nozzle thrust reversers at Mach numbers from 0 to 1.20
[NASA-TP-2306] 15 p2254 N84-24538
An investigation into the nature and control of vortex flow round helicopter upsweep
[BU-285] 15 p2255 N84-24544
The aerodynamic effects of cavities in a body
[BU-289] 15 p2256 N84-24547
A vectorized finite element method for computation of transonic tridimensional potential flows
[SNIAS-832-111-105] 15 p2257 N84-24555
Tandem fan applications in advanced STOVL fighter configurations
[NASA-TM-83689] 15 p2261 N84-24579
Acoustic measurements of a full-scale rotor with four tip shapes. Volume 2: Appendices C, D, E and F
[NASA-TM-85878-VOL-2] 15 p2403 N84-25426
Application of an optimization method to high performance propeller designs
[NASA-TM-83710] 16 p2433 N84-25607
The influence of V/STOL on wing design and tailplane design 16 p2436 N84-25627
A technique for optimizing the aerodynamic design of a generalized combat aircraft with forward swept wings for the purposes of stability and control investigation
[CA-8325] 16 p2448 N84-25700
Towards a better understanding of helicopter external noise
[SNIAS-832-210-113] 16 p2554 N84-26388
Aerodynamic design using numerical optimization
[NASA-TM-85550] 17 p2599 N84-26661
Low-speed investigation of effects of wing leading- and trailing-edge flap deflections and canard incidence on a fighter configuration equipped with a forward-swept wing
[NASA-TM-85795] 17 p2600 N84-26667
Design study for a low density wind tunnel
[INPE-3072-TDL/160] 17 p2610 N84-26707
Aerodynamic and thermal characteristics of 3-dimensional stellate bodies in rarefied gas 17 p2644 N84-26915
F-111 TACT natural laminar flow glove flight results 18 p2783 N84-27662
Unconventional missile concepts from consideration of varied mission requirements
[NASA-TM-85829] 18 p2785 N84-27679
Study of aerodynamic technology for single-cruise-engine VSTOL fighter/attack aircraft, phase 1
[NASA-CR-166268] 18 p2788 N84-27693
PAN AIR: A computer program for predicting subsonic or supersonic linear potential flows about arbitrary configurations using a high order panel method. Volume 2: User's manual (version 1.1)
[NASA-CR-3252] 18 p2788 N84-27698
Application of selected advanced technologies to high performance, single-engine, business airplanes
[NASA-CR-172361] 18 p2792 N84-27719
Current development at National Aerospace Laboratory (NLR) and Fokker in computer aided aerodynamic design
[NLR-MP-83031-U] 18 p2922 N84-28530
Aeronautical Engineering: A continuing bibliography with indexes (supplement 175)
[NASA-SP-7037(175)] 19 p2955 N84-28726
Study of transonic flow over swept wings
[NASA-CR-173799] 19 p2956 N84-28734
Wind tunnel tests of high-lift systems for advanced transports using high-aspect-ratio supercritical wings
[NASA-CR-3523] 19 p2957 N84-28742
An experimental investigation of the aerodynamic effects of forward facing wedges on the upper surface and leading edge of an aerofoil, with emphasis at high angles of attack
[AD-A142053] 19 p2959 N84-28755
Energy efficient engine: Turbine intermediate case and low-pressure turbine component test hardware detailed design report
[NASA-CR-167973] 19 p2965 N84-28789
Experience with transonic unsteady aerodynamic calculations
[NASA-TM-86278] 22 p3530 N84-32353
Design of a composite wing extension for a general aviation aircraft
[NASA-CR-173832] 22 p3534 N84-32377
Computer studies of hybrid-slotted working sections with minimum interference at subsonic speeds
[NASA-TM-86002] 22 p3535 N84-32379

A mathematical simulation model of the CH-47B helicopter, volume 2
[NASA-TM-84351] 22 p3535 N84-32380
Development and flight evaluation of an augmented stability active controls concept with a small tail
[NASA-CR-173880] 22 p3537 N84-32395
Flight Test Techniques
[AGARD-CP-373] 24 p3847 N84-34396
Determination of external store drag 24 p3847 N84-34397
Role of aerodynamics in Tupolev, Ilyushin aircraft designs 24 p3851 N84-34426
Ground vibration test of F-16 airplane with initial decoupler pylon
[NASA-TM-86259] 24 p3854 N84-34439

AERODYNAMIC DRAG
NT SUPERSONIC DRAG
Numerical computation of base flow for a projectile at transonic speeds
[AD-A130293] 01 p0004 N84-10027
On perturbation theory
[AD-A130213] 01 p0131 N84-10856
Polyurethane aircraft coatings for fuel savings 02 p0167 N84-11096
Orbit determination and prediction study for Dynamic Explorer 2
[NASA-TM-85098] 02 p0183 N84-11192
Dynamic-stall regulation of the Darrieus turbine
[DE83-017994] 03 p0321 N84-12097
Tabulation of data from tests of an NPL 9510 airfoil in the Langley 0.3-meter transonic cryogenic tunnel
[NASA-TM-84579] 04 p0479 N84-13151
Embedded cavity drag in steady and unsteady flows
[NASA-CR-172275] 04 p0531 N84-13493
The drag of magnetically suspended wind-tunnel models with nose-cones of various shapes
[NASA-TM-77325] 07 p0946 N84-16137
Minimal drag for wings with prescribed lift, roll moment and yaw moment
[AD-A134572] 07 p0948 N84-16152
Navier-Stokes computations of projectile base flow at transonic speeds with and without base injection
[AD-A135783] 09 p1252 N84-18176
Wind tunnel tests on a nonaxisymmetric projectile shape at Mach numbers 2.5 to 6.0
[AD-A135784] 09 p1253 N84-18177
Trending of cruise drag — aircraft performances
[NLR-TR-82078-U] 09 p1256 N84-18200
An investigation of new possibilities to simplify the standard supersonic area rule
[AD-A137018] 10 p1422 N84-19297
Use of adaptive walls in 2D tests
[NASA-TM-77380] 10 p1432 N84-19359
Numerical simulations of compliant material response to turbulent flow
[DE84-004385] 11 p1654 N84-20800
Demonstration of the coast-down technique for determining train resistances
[NASA-CR-173468] 12 p1765 N84-21515
An interactive system for the analysis and constrained minimization of induced drag of aircraft configurations (SAMID)
[NLR-MP-82057-U] 12 p1767 N84-21523
Influence of surface roughness of a desert 12 p1859 N84-22109
Model identification and parameter estimation of the power, lift, and drag of light aircraft from a single maneuver 13 p1930 N84-22552
Test techniques for jet effects on fighter aircraft 14 p2098 N84-23589
International aviation (selected articles)
[AD-A140895] 17 p2601 N84-26671
Aerodynamic and thermal characteristics of 3-dimensional stellate bodies in rarefied gas 17 p2644 N84-26915
Effect of elastically suspended masses on stability of elastic panels in supersonic stream 17 p2650 N84-26949
Method to estimate drag coefficient at the air/ice interface over drifting open pack ice from remotely sensed data 17 p2720 N84-27310
In-flight lift and drag measurements on a first generation jet transport equipped with winglets 18 p2787 N84-27689
Solar array: Plasma interactions 19 p3048 N84-29343
A rapid estimation of near earth satellite lifetimes with quasi-dynamic atmospheric model with application to a proposed Brazilian satellite 19 p3119 N84-29823
Wing design for minimum drag with practical constraints 21 p3327 N84-31109
Development and flight evaluation of an augmented stability active controls concept with a small tail
[NASA-CR-173880] 22 p3537 N84-32395
The nature and origin of refractory inclusions in the Allende meteorite 22 p3678 N84-33318
Transonic equivalence rule with lift
[AD-A143591] 23 p3690 N84-33389
A discrete element prediction approach for turbulent flow over rough surfaces 23 p3746 N84-33744
Laminar flow control - viscous simulation 23 p3749 N84-33764
Determination of external store drag 24 p3847 N84-34397
A technique to determine lift and drag polars in flight 24 p3848 N84-34402

AERODYNAMIC FORCES
NT AERODYNAMIC DRAG
NT AERODYNAMIC INTERFERENCE
NT AERODYNAMIC LOADS
NT BLAST LOADS
NT GUST LOADS
NT LIFT
NT SUPERSONIC DRAG
NT WING LOADING
NT ZERO LIFT
XTRAN2L: A program for solving the general-frequency unsteady transonic small disturbance equation
[NASA-TM-85723] 04 p0479 N84-13150
An approximate method of estimating the aerodynamic interference between two parallel bodies (normal force and side force)
[NAL-TR-752] 04 p0479 N84-13154
Aerodynamic force measurements with a strain-gage balance in a cryogenic wind tunnel
[NASA-TP-2251] 04 p0480 N84-13162
Triservice program for extending missile aerodynamic data base and prediction program using rational modeling
[AD-A132455] 04 p0481 N84-13166
High altitude aerodynamic tests with simulated heat-shield outgassing
[AD-A132078] 04 p0492 N84-13227
A study to determine the accuracy of 2 computer programs in predicting hinge moments for all movable tail fins on missile bodies
[AD-A133399] 06 p0793 N84-15189
Determination of elevator and rudder hinge forces on the Learjet model 55 aircraft 06 p0860 N84-15604
Aeroelastic analysis using nonlinear aerodynamic methods
[AD-A135133] 08 p1099 N84-17146
The question of optimization of three-dimensional maneuver of orbital apparatus in the atmosphere
[AD-A134753] 08 p1119 N84-17280
Doublet point method for calculations on oscillatory lifting surfaces. Part 1: Subsonic flow
[NAL-TR-781-PT-1] 09 p1251 N84-18168
Comparative force measurements on half and whole models of a heavy lift wing in the large wind tunnel Emmen
[F/W-50-1596] 10 p1422 N84-19301
Minimum time turns with direct sideforce
[AD-A136958] 10 p1429 N84-19342
Statistical modeling of space shuttle environmental data
[NASA-CR-170940] 10 p1573 N84-20304
Analysis of wind gust data 10 p1573 N84-20308
Generalization of the subsonic kernel function in the s-plane, with applications to flutter analysis
[NASA-TP-2292] 11 p1600 N84-20480
A self-contained captive trajectory system for a blowdown wind tunnel 14 p2099 N84-23596
New methods of excitation, acquisition and data reduction about unsteady wind tunnel tests 14 p2099 N84-23599
A mathematical model of the UH-60 helicopter
[NASA-TM-85890] 14 p2110 N84-23653
Doublet point method for calculations on oscillatory lifting surfaces. Part 2: Supersonic flow
[NAL-TR-785-PT-2] 16 p2439 N84-25649
A theoretical analysis of the aerodynamic and structural forces associated with a ribbon parachute canopy in steady descent 16 p2443 N84-25671
Operation and performance measurement on engines in sea-level test facilities: Introduction and general survey 16 p2452 N84-25724
Satellite control by stabilizing flaps
[INPE-2889-TDL/145] 17 p2614 N84-26733
Protection equipment against high velocity ejections — pilot ejection
[STPA/CIN-6] 18 p2790 N84-27705
Evaluation of aerodynamic admittance of a model bridge oscillating with vertical motion
[NMI-R-175] 18 p2851 N84-28104
The aerodynamic admittance of model bridges
[NMI-R-176] 18 p2851 N84-28105
Gasdynamic study of model with combustion in shock tunnel 21 p3481 N84-32061
Investigation of the external flow analysis for density measurements at high altitude — shuttle upper atmosphere mass spectrometer experiment
[NASA-CR-173881] 22 p3530 N84-32352

AERODYNAMIC HEAT TRANSFER
Orbiter catalytic/noncatalytic heat transfer as evidenced by heating to contaminated surfaces on STS-2 and STS-3 01 p0024 N84-10153
Leeward centerline and side fuselage entry heating predictions for the space shuttle orbiter 01 p0025 N84-10156
Space Shuttle external interference heating test
[AD-A131688] 03 p0341 N84-12215
Determination of the uncertainty of experimental heat-flux calibrations
[AD-A131918] 03 p0376 N84-12450
Nonlinear modeling and initial condition estimation for identifying the aerothermodynamic environment of the Space Shuttle Orbiter
[AD-A136928] 10 p1438 N84-19391
Aerodynamic and thermal characteristics of 3-dimensional stellate bodies in rarefied gas 17 p2644 N84-26915

AERODYNAMIC HEATING
NT SHOCK HEATING
Orbiter catalytic/noncatalytic heat transfer as evidenced by heating to contaminated surfaces on STS-2 and STS-3 01 p0024 N84-10153
A review of nonequilibrium effects and surface catalysis on shuttle heating 01 p0024 N84-10154
Filler bar heating due to stepped tiles in the shuttle orbiter thermal protection system 01 p0024 N84-10155
AFFTC overview of orbiter-reentry flight-test results 01 p0027 N84-10169
Enhancement of the CAVE computer code — aerodynamic heating package for nose cones and scramjet engine sidewalls
[NASA-CR-3731] 04 p0532 N84-13501
Computational modeling of aerodynamic heating for XM797 nose cap configurations
[AD-A133684] 05 p0627 N84-14126
Boundary-layer trip effectiveness and computations of aerodynamic heating for XM797 nose-tip configurations
[AD-A128036] 07 p0947 N84-16148
Thermal control of tethered satellite in a very low altitude aerodynamic mission 10 p1446 N84-19444
Interaction of unsteady spatial boundary layer with hypersonic flow near rapidly heated portion of surface 13 p1971 N84-22794
Status of new aerothermodynamic analysis tool for high-temperature resistant transparencies
[AD-P003236] 17 p2598 N84-26649
Studies of boundary layer transition and surface roughness effects in hypersonic flow
[AD-A140803] 17 p2601 N84-26670
Aerodynamic heating computations for projectiles. Volume 1: In-depth heat conduction modifications to the ABRES shape change code (BRLASCC)
[AD-A143252] 22 p3531 N84-32359
Aerodynamic heating computations for projectiles. Volume 2: Swept wing calculations using the planar version of the ABRES shape change code (PLNRASCC)
[AD-A143253] 22 p3532 N84-32360
Aerodynamic heating computations for projectiles. Volume 3: BRL interactive plotting program (BRLINPLOT)
[AD-A143254] 22 p3532 N84-32361
A study of leeside flow field heat transfer on Shuttle Orbiter configuration
[NASA-CR-172362] 22 p3540 N84-32410
Columbia: The first five flights. Entry heating data series. Volume 6: The upper leeside surface centerline
[NASA-CR-171795] 22 p3541 N84-32414

AERODYNAMIC INTERFERENCE
A study of the aerodynamic interactions of the tail rotor and fin
[AD-A130757] 01 p0005 N84-10030
Special Course on Subsonic/Transonic Aerodynamic Interference for Aircraft
[AGARD-R-712] 03 p0317 N84-12072
Subsonic/Transonic Aerodynamic Interference for Aircraft: Introductory remarks 03 p0317 N84-12073
Computational methods for subsonic and transonic aerodynamic design 03 p0317 N84-12074
Subsonic/transonic viscous interactions 03 p0317 N84-12075
Aerodynamic design for overall vehicle performance 03 p0318 N84-12077
Application of computational procedures in aerodynamic design 03 p0318 N84-12078
Transonic empirical configuration design process 03 p0318 N84-12079
Aerodynamic interference: A general overview 03 p0318 N84-12080
Transonic configuration design (fighter) 03 p0318 N84-12082

External stores interference 03 p0318 N84-12083
Interference problems in aircraft design 03 p0319 N84-12084
Engine/airframe interference 03 p0319 N84-12085
Engine-airframe interference effects 03 p0319 N84-12086
A study of wing-body aerodynamic interference of a light twin aircraft utilizing a panel method potential flow program 03 p0327 N84-12134
An approximate method of estimating the aerodynamic interference between two parallel bodies (normal force and side force)
[NAL-TR-752] 04 p0479 N84-13154
Suppression of interference flutter by composite tailoring 05 p0632 N84-14155
Special opportunities in helicopter aerodynamics
[NASA-TM-84396] 07 p0946 N84-16138
Calculation of the aerodynamic flow field in the vicinity of a Sea King helicopter
[ARL-AERO-REPT-158] 08 p1096 N84-17128
TWINTN4: A program for transonic four-wall interference assessment in two-dimensional wind tunnels
[NASA-CR-3777] 08 p1106 N84-17189
An experimental investigation of nacelle-pylon installation on an unswept wing at subsonic and transonic speeds
[NASA-TP-2246] 09 p1250 N84-18162
A study of the aerodynamic interference effects during aerial refueling
[AD-A136895] 10 p1420 N84-19290
Two-dimensional wind tunnel wall interference
[AD-A138964] 11 p1603 N84-20499
Application of computational procedures in aerodynamic design
[NLR-MP-83012-U] 12 p1766 N84-21521
Test techniques for jet effects on fighter aircraft 14 p2098 N84-23589
Design of a wind tunnel afterbody model for the development of a transonic combat aircraft 14 p2098 N84-23591
Introduction and review of some jet interference phenomena relevant to V/STOL aircraft 16 p2436 N84-25626
Development and application of an analysis of axisymmetric body effects on helicopter rotor aerodynamics using modified slender body theory
[NASA-TM-85934] 21 p3324 N84-31090

AERODYNAMIC LIFT
U LIFT

AERODYNAMIC LOADS
NT BLAST LOADS
NT GUST LOADS
A study of the aerodynamic interactions of the tail rotor and fin
[AD-A130757] 01 p0005 N84-10030
Study of an asymptotic method for helicopter rotor blade aerodynamic loads 03 p0327 N84-12135
Loads and aeroelasticity division research and technology accomplishments for FY 1982 and plans for FY 1983
[NASA-TM-84594] 06 p0782 N84-15120
The effect of superposing ripple loading of maneuver load cycles
[AD-A132653] 06 p0786 N84-15148
A study to determine the accuracy of 2 computer programs in predicting hinge moments for all movable tail fins on missile bodies
[AD-A133399] 06 p0793 N84-15169
Statistical review of counting accelerometer data for Navy and Marine fleet aircraft from 1 January 1962 to 31 December 1982
[AD-A134289] 07 p0951 N84-16169
Effect of blade structural parameters on helicopter vibrational characteristics
[AD-A134547] 07 p0951 N84-16174
Helicopter rotor wake geometry and its influence in forward flight. Volume 1: Generalized wake geometry and wake effect on rotor airloads and performance
[NASA-CR-3726] 08 p1099 N84-17149
In-flight load testing of advanced shuttle thermal protection systems
[NASA-TM-86024] 08 p1115 N84-17250
Studies and vorticity effects by the Euler equations with emphasis on supersonic flow fields
[AD-A135118] 08 p1157 N84-17535
The cumulative exceedance distribution for accelerations due to turbulence encountered by a CT/4A air trainer
[AD-A135640] 09 p1258 N84-18211
Testing for severe aerodynamically induced vibration environments 10 p1513 N84-19905
Simplified models and computational schemes of the aerodynamic load — large space structures 12 p1780 N84-21614
Prediction of fatigue crack-growth patterns and lives in three-dimensional cracked bodies
[NASA-TM-85787] 13 p2000 N84-22979
Air blast loadings on building elements from detonating 8.4 Kg Comp high explosive charges
[FOA-C-20522-D4] 15 p2349 N84-25102
Operational loads on B-747 aircraft: Design assumptions, actual experience and maintenance aspects 17 p2585 N84-26569
Nacelle Aerodynamic and Inertial Loads (NAIL) project
[NASA-CR-165807] 18 p2786 N84-27685
KC-135 Winglet Program Review
[NASA-CP-2211] 18 p2787 N84-27686
KC-135 wing and winglet flight pressure distributions, loads, and wing deflection results with some wind tunnel comparisons 18 p2787 N84-27688
Energy efficient engine: Low-pressure turbine subsonic cascade component development and integration program
[NASA-CR-165592] 18 p2795 N84-27738
Pressure distribution data from tests of 2.29-meter (7.5-ft.) span EET high-lift research model in Langley 4- by 7-meter tunnel
[NASA-TM-83111] 19 p2957 N84-28739
Measurement of unsteady aerodynamic pressures
[ESA-TT-834] 19 p2959 N84-28757
Nacelle Aerodynamic and Inertial Loads (NAIL) project
[NASA-CR-3585] 19 p2983 N84-28777
Results of the AFRSI detailed-environment test of the 0.035-scale SSV pressure-loads model 84-0 in the Ames 11x11 ft. TWT and the Lewis 8x6 ft. and 10x10 ft. SWT (OA-310A, B, C), volume 2
[NASA-CR-167686] 21 p3351 N84-31260
Results of the AFRSI detailed-environment test of the 0.035-scale SSV pressure-loads model 84-0 in the Ames 11x11 ft. TWT and the Lewis 8x6 ft. and 10x10 ft. SWT (OA-310A, B, C), volume 1
[NASA-CR-167685] 21 p3352 N84-31261
Aerothermal loads analysis for high speed flow over a quilted surface configuration
[NASA-TM-86280] 21 p3399 N84-31560
NASA rotor system research aircraft flight-test data report: Helicopter and compound configuration
[NASA-TM-85843] 22 p3535 N84-32381
Aerothermodynamic data base
[NASA-CR-171807] 22 p3541 N84-32415
Aerodynamic feasibility for airborne retrieval of a remotely piloted vehicle
[AD-A143695] 23 p3693 N84-33404
Flight test techniques used for proof of structural integrity of Tornado when carrying external stores 24 p3849 N84-34413

AERODYNAMIC MOMENTS
U STABILITY DERIVATIVES

AERODYNAMIC NOISE
Light aircraft sound transmission study
[NASA-CR-174540] 01 p0139 N84-10910
Correlations of supersonic boundary-layer transition on cones including effects of large axial variations in wind-tunnel noise
[NASA-TP-2229] 08 p1157 N84-17534
Experimental blade vortex interaction noise characteristics of a utility helicopter at 1/4 scale
[NASA-TM-84653] 08 p1227 N84-18018
On the significance of unsteady surface pressures for aerodynamically induced interior noise of automobiles
[DFVLR-FB-83-28] 10 p1423 N84-19303
Interaction of aerodynamic noise with laminar boundary layers in supersonic wind tunnels
[NASA-CR-3621] 11 p1651 N84-20781
Acoustic environmental accuracy requirements for response determination
[NASA-CR-171003] 13 p2039 N84-23234
Fan noise reduction achieved by removing tip flow irregularities behind the rotor - forward arc test configurations
[NASA-TM-83616] 13 p2040 N84-23235
Aerodynamic sound generation by turbulent boundary layer flow along solid and compliant walls
[MPIS-116/1983] 13 p2040 N84-23239
Installation noise measurements of model SR and CR propellers
[NASA-TM-85790] 15 p2403 N84-25425
Noise generated by a propeller in a wake
[NASA-TM-85794] 16 p2553 N84-26382
Propeller noise at subsonic blade tip speeds, torque and thrust force
[ESA-TT-821] 16 p2554 N84-26385
A description of two methods for calculation of low frequency wind turbine noise, including applications for the Swedish prototype Wind Energy Conversion System (WECS) Maglarp
[FFA-TN-1983-31] 18 p2876 N84-28262
Rotorcraft noise
[NASA-CP-2234] 19 p3096 N84-29662
A comparison of wind tunnels suitable for rotorcraft noise studies 19 p3096 N84-29665
Rotary wing aerodynamically generated noise 19 p3097 N84-29668
Rotor noise prediction technology: Theoretical approach 19 p3098 N84-29678
Experiment versus theory 19 p3098 N84-29679
Aerodynamic prediction I 19 p3098 N84-29680
Aerodynamic predictions II 19 p3098 N84-29681
An experimental investigation of the effect of boundary layer refraction on the noise from a high-speed propeller
[NASA-TM-83764] 23 p3821 N84-34230

AERODYNAMIC STABILITY
Gust response of a light, single-engined, high-wing aircraft
[AD-A131033] 01 p0013 N84-10081
Instabilities of a gyroscope produced by rapidly rotating, highly viscous liquids
[AD-A130874] 01 p0084 N84-10547
Aeromechanical stability of a hingeless rotor in hover and forward flight: Analysis and wind tunnel tests
[NASA-TM-85683] 01 p0094 N84-10610
Self-sustained oscillations of a shock wave interacting with a boundary layer on a supercritical airfoil
[NASA-CR-175338] 07 p0945 N84-16131
Helicopter flying qualities characteristics-CH-46E, volume 1
[AD-A134320] 07 p0951 N84-16170
Helicopter flying qualities characteristics-CH-46E, volume 4
[AD-A134323] 07 p0951 N84-16173
Wind tunnel tests on a nonaxisymmetric projectile shape at Mach numbers 2.5 to 6.0
[AD-A135784] 09 p1253 N84-18177
Research on boundary feedback and control theories, 1978 - 1983
[AD-A136531] 09 p1376 N84-18987
Numerical investigation of the aerodynamics and stability of a flared afterbody for axisymmetric projectiles at supersonic speeds
[AD-A136826] 10 p1420 N84-19289
A time domain analysis of a rigid two-bladed fully gimballed helicopter rotor with circulation control
[AD-A136947] 10 p1422 N84-19296
Lecture notes on airplane stability and control 1, part 1
[VTH-LR-384-PT-1] 10 p1431 N84-19357
Lecture notes on airplane stability and control 1, part 2
[VTH-LR-384-PT-2] 10 p1432 N84-19358
Wingtip vortex propeller
[NASA-CASE-LAR-13019-1] 11 p1602 N84-20495
Practical aspects of modeling aircraft dynamics from flight data 11 p1616 N84-20575
Transonic calculation of airfoil stability and response with active controls
[NASA-TM-85770] 12 p1765 N84-21513
On the stability of flight vehicles in the low Reynolds number non-linear regime
[AD-A138379] 12 p1773 N84-21559
Generation of vehicle wobbling by the unsteady flow field in a spinning solid propellant rocket motor 13 p1945 N84-22648
Active suppression of aeroelastic instabilities for forward swept wings 16 p2438 N84-25638
Full scale wind tunnel tests on hang glider pilots
[CA-8416] 16 p2438 N84-25643
A technique for optimizing the aerodynamic design of a generalized combat aircraft with forward swept wings for the purposes of stability and control investigation
[CA-8325] 16 p2448 N84-25700
Flight dynamics and aircraft piloting
[ONERA-P-1983-1] 16 p2539 N84-26301
Effect of elastically suspended masses on stability of elastic panels in supersonic stream 17 p2650 N84-26949
Aerodynamic instability of cable-stayed bridges: Theoretical experimental study of stall flutter 18 p2789 N84-27700
Nonlinear attitude stability of a dual-spin spacecraft containing spherical dampers
[AD-A141307] 18 p2807 N84-27821
Active suppression of aeroelastic instabilities for forward swept wings
[AD-A141739] 19 p2964 N84-28783
Space Shuttle separate-surface control-system study
[NASA-TP-2340] 19 p2967 N84-28801
An explanation of spin-up instabilities for a 155mm binary projectile
[AD-A141534] 19 p3023 N84-29173
Development and flight evaluation of an augmented stability active controls concept with a small tail
[NASA-CR-173880] 22 p3537 N84-32395
Contribution of pressure to the moment during spin-up on a nutating liquid-filled cylinder: Ad hoc model
[AD-A143678] 23 p3747 N84-33752

Role of aerodynamics in Tupolev, Ilyushin aircraft designs 24 p3851 N84-34426

AERODYNAMIC STALLING

A dynamic model for aircraft poststall departure 01 p0012 N84-10077

Application of the small body pressure transducer [AD-A131733] 03 p0377 N84-12454

Performance degradation of a typical twin engine commuter type aircraft in measured natural icing conditions [NASA-TM-83564] 04 p0483 N84-13173

Pilot human factors in stall/spin accidents of supersonic fighter aircraft 06 p0779 N84-15102

An investigation of airfoil dynamic stall with large amplitude motions [AD-A134230] 07 p0948 N84-16150

Effect of blade structural parameters on helicopter vibrational characteristics [AD-A134547] 07 p0951 N84-16174

Numerical simulation of stalling flows by an integral equation method 07 p0956 N84-16199

Air Force Academy Aeronautics Digest - Fall/Winter 1982 [AD-A135073] 08 p1099 N84-17145

Experimental investigation of dynamic stall [AD-A135846] 09 p1252 N84-18172

Investigation of effects contributing to dynamic stall using a momentum-integral method [AD-A136897] 10 p1421 N84-19291

An automated stall-speed warning system [NASA-TM-84917] 11 p1607 N84-20520

Application of the small body pressure transducer [AD-P002687] 11 p1659 N84-20822

Wind-tunnel investigation of an advanced general aviation canard configuration [NASA-TM-85760] 12 p1789 N84-21539

Data acquisition and aerodynamic coefficient estimation at high angles of attack 13 p1927 N84-22542

An investigation of three-dimensional stall development on NACA 23012 and NACA 0012 aerofoils [GU-AERO-8300] 15 p2257 N84-24554

Aerodynamic characteristics of 2 NASA supercritical airfoils with different maximum thickness [NASA-TM-X-2532] 18 p2784 N84-27667

Aerodynamic instability of cable-stayed bridges: Theoretical experimental study of stall flutter 18 p2789 N84-27700

Experimental studies of flow separation of three airfoils at low speeds [NASA-CR-3530] 19 p2956 N84-28736

An experimental investigation of the aerodynamic effects of forward facing wedges on the upper surface and leading edge of an aerofoil, with emphasis at high angles of attack [AD-A142053] 19 p2959 N84-28755

Flight characteristics of a manned, low-speed, controlled deep stall vehicle [NASA-TM-86041] 20 p3128 N84-29863

Calculation of boundary layers of oscillating airfoils [NASA-TM-85943] 21 p3398 N84-31554

Subsonic/transonic stall flutter investigation of a rotating rig [NASA-CR-174625] 23 p3695 N84-33417

Laser velocimeter measurements of dynamic stall — conducted in the Ames two foot wind tunnel [NASA-CR-166603] 24 p3852 N84-34429

Identification of quasi-steady compressor characteristics from transient data [NASA-CR-174685] 24 p3855 N84-34444

AERODYNAMIC VEHICLES

U AIRCRAFT

AERODYNAMICS

NT AEROTHERMODYNAMICS
NT HYPERSONICS
NT ROTOR AERODYNAMICS

Aeronautical Engineering: A continuing bibliography with indexes (supplement 165) [NASA-SP-7037(165)] 01 p0001 N84-10008

Introduction to computational aerodynamics [AD-A130717] 01 p0005 N84-10031

The application of aerodynamic uncertainties in the design of the entry trajectory and flight control system of the space shuttle orbiter 01 p0022 N84-10141

Evaluation of the variable reluctance transducer/carrier amplifier method of measuring low pneumatic pressures in aerodynamic and propulsion testing [AD-A130695] 01 p0084 N84-10546

Status of the vertical-axis wind-trubine program, 1983 [DE83-013098] 02 p0229 N84-11504

User's guide for a computer program for calculating the zero-lift wave drag of complex aircraft configurations [NASA-TM-85670] 02 p0271 N84-11774

Aeronautical Engineering: A continuing bibliography with indexes (supplement 166) [NASA-SP-7037(166)] 03 p0311 N84-12027

AFWAL FY82 technical accomplishments [AD-A131839] 03 p0315 N84-12054

Acta Aeronautica et Astronautica Sinica [AD-A131828] 03 p0315 N84-12055

Vortical flow management for improved configuration aerodynamics: Recent experiences 03 p0326 N84-12129

Aeronautical Engineering, a continuing bibliography with indexes [NASA-SP-7037(168)] 04 p0477 N84-13136

Aeronautical Engineering: A continuing bibliography with indexes (supplement 167) [NASA-SP-7037(167)] 04 p0477 N84-13137

An overview of aerodynamic research and technology requirements as related to some military needs [NASA-TM-85691] 04 p0477 N84-13138

Some thoughts concerning large load-carrying vehicles [NASA-TM-85701] 04 p0477 N84-13139

Analytical model of rotor wake aerodynamics in ground effect [NASA-CR-166533] 04 p0480 N84-13157

Aerodynamic sources of acoustic radiation from a single MOD-2 wind turbine [DE84-000013] 06 p0909 N84-15905

Computational aerodynamics and supercomputers [NASA-TM-85887] 07 p0946 N84-16139

A laser velocimeter system for large-scale aerodynamic testing [NASA-TM-84393] 07 p0947 N84-16144

Numerical techniques for high incidence reentry aerodynamics [AD-A134178] 07 p0948 N84-16149

Aeronautical engineering. A continuing bibliography with indexes, supplement 169, January 1984 [NASA-SP-7037(169)] 08 p1095 N84-17117

STEP mechanical systems 08 p1109 N84-17213

Shuttle on-orbit dynamics 08 p1110 N84-17216

Airframe technology for aircraft energy efficiency — economic factors [NASA-TM-85749] 09 p1249 N84-18154

Aeronautical engineering, a continuing bibliography with indexes [NASA-SP-7037(171)] 10 p1419 N84-19279

Aeronautical Engineering: 1983 cumulative index [NASA-SP-7037(170)] 10 p1546 N84-20133

Kinematics, influence functions and field quantities for disturbance propagation from moving disturbance sources [NASA-TM-77410] 11 p1601 N84-20489

Helicopter fatigue design guide [AD-A138963] 11 p1605 N84-20513

Aerodynamic features of flames in premixed gases 11 p1613 N84-20559

Aeronautical Engineering: A continuing bibliography, supplement 172 [NASA-SP-7037(172)] 12 p1763 N84-21492

Report by the Chairman of the Fluid Dynamics Panel 12 p1763 N84-21499

Validated Engineering Data Index, 1963 - 1984 12 p1804 N84-21758

Research activities at the Institute for Aerospace Studies, 1982 12 p1917 N84-22492

Characteristics of a prototype experiment 13 p2027 N84-23140

INTFL-8401 computer tomography for interferomatic aerodynamic measurements [AD-A139591] 14 p2101 N84-23611

The study of an idealized wing/body junction [AD-A139933] 15 p2257 N84-24559

Aeronautical Engineering, a continuing bibliography with indexes, supplement 173 [NASA-SP-7037(173)] 16 p2433 N84-25603

Aeronautical Engineering: A continuing bibliography with indexes, supplement 174 [NASA-SP-7037(174)] 16 p2433 N84-25604

Projects and programs as a reflection of the performances of engineers in aircraft making by Hans-Wocke [MBB-UT-24-83-O] 16 p2433 N84-25608

Jet flowfields 16 p2437 N84-25631

Notes on special flight aspects, such as STO, ski-jump and ODM 16 p2437 N84-25637

Nonlinear problems in flight dynamics [NASA-TM-85940] 16 p2439 N84-25648

The wind tunnel S2MA of the aerodynamic testing plant in Modene-Avrieux, France [ONERA-NT-1983-5] 16 p2454 N84-25735

Free molecular aerodynamics for satellite application [ESA-TT-776] 16 p2456 N84-25749

The ONERA Aeronautics Research Establishment in Cannes (France) [ONERA-P-1983-2] 16 p2565 N84-26455

Langley aeronautics and space test highlights, 1983 [NASA-TM-85806] 16 p2583 N84-26564

International aviation (selected articles) [AD-A140895] 17 p2601 N84-26671

Aerodynamics of hovering 17 p2645 N84-26923

Advanced aerodynamics. Selected NASA research [NASA-CP-2208] 18 p2783 N84-27660

EET theoretical design techniques 18 p2784 N84-27666

Energy efficient engine fan component detailed design report [NASA-CR-165466] 18 p2795 N84-27737

Aeronautical Engineering: A Continuing Bibliography with indexes (supplement 176) [NASA-SP-7037(176)] 19 p2956 N84-28733

Unsteady aerodynamics of moving control surfaces at the Airbus wing [BMFT-FB-W-84-001] 19 p2968 N84-28811

Production version of the extended NASA-Langley vortex lattice FORTRAN computer program. Volume 2: Source code [NASA-TM-83304] 19 p3073 N84-29500

Some aerodynamic discoveries and related NACA/NASA research programs following World War 2 [NASA-TM-86258] 20 p3125 N84-29847

APL/JHU free flight tests of the general purpose heat source module. Testing: 5-7 March 1984 [DE84-011065] 20 p3299 N84-30948

Computational aerodynamics and artificial intelligence [NASA-TM-85994] 21 p3324 N84-31069

Report to Congress on the effectiveness of the Civil Aviation Security Program [AD-A143023] 21 p3326 N84-31103

Unsteady aerodynamics of fast moving control surfaces [BMFT-FB-W-84-020] 21 p3328 N84-31117

Aeronautical Engineering: A continuing bibliography with indexes (supplement 177) [NASA-SP-7037(177)] 22 p3529 N84-32342

Experimental determination of the inertia constants of an airplane or of a missile [NASA-TM-77767] 23 p3689 N84-33381

AEROELASTICITY

NT AEROTHERMOELASTICITY

Aeroelastic response of an aircraft wing to random loads [AD-A130476] 01 p0004 N84-10028

Approach to establishing the effect of aeroelasticity on aerodynamic characteristics of the space shuttle orbiter 01 p0021 N84-10133

Parametric tip effects for conformable rotor applications [NASA-TM-85682] 01 p0094 N84-10609

Aeroelastic Considerations in the Preliminary Design of Aircraft [AGARD-CP-354] 02 p0169 N84-11116

Preliminary Aeroelastic Design of Structures (PADS) methods development and application 02 p0170 N84-11117

Aeroelastic tailoring of high-aspect-ratio composite wings in the transonic regime 02 p0170 N84-11119

Aeroelastic design of civil transports at the project stage 02 p0170 N84-11120

Transonic flutter clearance for a supercritical transport aircraft in the preliminary stage 02 p0170 N84-11121

Influence of main design parameters on flutter behaviour for aircraft configurations with heavy concentrated masses 02 p0170 N84-11122

Aeroelastic design considerations for turboprop powerplant installations 02 p0171 N84-11123

Aeroelastic design considerations in the development of helicopters 02 p0171 N84-11126

The influence of aeroelastic stability requirements on helicopter design 02 p0171 N84-11127

Aeroelastic considerations in the design of high speed rotors 02 p0171 N84-11128

Estimated analysis of the aeroelastic behavior of tail rotors 02 p0172 N84-11129

The role of aeroelasticity in the preliminary design of helicopter rotors 02 p0172 N84-11130

Aeroelasticity and optimization at the design stage 02 p0172 N84-11131

Aeroelastic considerations in preliminary design of a military combat aircraft 02 p0172 N84-11132

Preliminary design of aircraft using structural optimization methods 02 p0172 N84-11133

A flutter optimization program for complete aircraft structural design 02 p0172 N84-11134

Acta Aeronautica et Astronautica Sinica [AD-A131828] 03 p0315 N84-12055

Aeroelastic analysis for propellers - mathematical formulations and program user's manual [NASA-CR-3729] 03 p0388 N84-12530

Development of the basic methods needed to predict the aeroelastic behavior of helicopters 03 p0429 N84-12811

La Recherche Aerospatiale, Bimonthly Bulletin, no. 1982-4, 209/July-August 1982
[ESA-TT-781] 04 p0477 N84-13141
La Recherche Aerospatiale, Bimonthly Bulletin, no. 1982-5, 210/September-October 1982
[ESA-TT-785] 04 p0477 N84-13142
Specification for a Program for an Interative Aeroelastic Solution (PIAS)
[NASA-CR-172200] 04 p0479 N84-13153
On the effect of gyroscopic forces on the instability of certain fluid-elastic systems. Part 1: Definitions
[PUBL-340] 04 p0532 N84-13499
Aeroelastic stability analysis of the light weight tank LH-2 cable tray
[LMSC/D059511] 05 p0692 N84-14543
Loads and aeroelasticity division research and technology accomplishments for FY 1982 and plans for FY 1983
[NASA-TM-84594] 06 p0782 N84-15120
Aerodynamics, aeroelasticity, and stability of hang gliders 06 p0784 N84-15134
Bladed-shrouded-disc aeroelastic analyses: Computer program updates in NASTRAN level 17.7
[NASA-CR-165428] 06 p0790 N84-15154
Aeroelastic analysis of a Darrieus type wind turbine blade with troposkien geometry 06 p0863 N84-15623
Optimal mistuning for enhanced aeroelastic stability of transonic fans
[NASA-CR-173179] 07 p0953 N84-16180
Flutter of swept fan blades
[NASA-TM-83547] 07 p1015 N84-16587
Loads and aeroelasticity division research and technology accomplishments for FY 1983 and plans for FY 1984
[NASA-TM-85740] 08 p1097 N84-17135
Aeroelastic analysis using nonlinear aerodynamic methods
[AD-A135133] 08 p1099 N84-17146
Airloads research study. Volume 1: Flight test loads acquisition
[NASA-CR-170409] 08 p1103 N84-17173
Hover test of a full-scale hingeless helicopter rotor: Aeroelastic stability, performance and loads data — wind tunnel tests
[NASA-TM-85892] 09 p1255 N84-18190
An assessment of the capability to calculate tilting prop-rotor aircraft performance, loads and stability
[NASA-TP-2291] 10 p1427 N84-19333
Fracture, longevity (fatigue), dynamics, and aeroelasticity of composite structures
[AD-A137047] 10 p1452 N84-19486
Generalization of the subsonic kernel function in the s-plane, with applications to flutter analysis
[NASA-TP-2292] 11 p1600 N84-20480
Formulation of blade-flutter spectral analyses in stationary reference frame
[NASA-TP-2296] 11 p1614 N84-20562
Tools for active control system design
11 p1617 N84-20582
Pilot modeling, modal analysis, and control of large flexible aircraft 11 p1617 N84-20584
A computational method for predicting the effects of varying Reynolds number and dynamic pressure on flexible wings at transonic speeds 12 p1764 N84-21508
Transonic calculation of airfoil stability and response with active controls
[NASA-TM-85770] 12 p1765 N84-21513
Body-freedom flutter of a 1/2-scale forward-swept-wing model, an experimental and analytical study
[NASA-CR-172324] 12 p1771 N84-21553
Calculation of apparent masses in blade ring
13 p1971 N84-22793
Further development of XTRAN3S computer program
[NASA-CR-172335] 14 p2101 N84-23608
A study of aeroelastic and structural dynamic effects in multi-rotor systems with application to hybrid heavy lift vehicles
[NASA-CR-173505] 14 p2104 N84-23620
An aeroelastician's perspective of wind tunnel and flight experiences with active control of structural response and stability
[NASA-TM-85761] 14 p2157 N84-23824
Flutter and forced response of mistuned rotors using standing wave analysis
[NASA-CR-173555] 15 p2262 N84-24586
Active suppression of aeroelastic instabilities for forward swept wings 16 p2438 N84-25638
Transonic aeroelastic stability and response of conventional and supercritical airfoils including active controls 17 p2598 N84-26655
Modeling of the overall aeroelastic system of a wind turbine aided by symbolic programming
[DFVLR-FB-84-10] 18 p2877 N84-28265
Calculation of unsteady aerodynamics for four AGARD standard aeroelastic configurations
[NASA-TM-85817] 19 p2958 N84-28747
Active suppression of aeroelastic instabilities for forward swept wings
[AD-A141739] 19 p2964 N84-28783
Aeroelastic problems caused by tornados and their successful treatment with technologies that result from experiences of precedent intensive technologic modernizing
[MBB-FE-294/S/PUB/110] 19 p3035 N84-29253
Aeroelasticity in turbomachine-cascades
[AD-A141905] 20 p3131 N84-29880
Two-dimensional and quasi three-dimensional experimental standard configurations for aeroelastic investigations in turbomachine-cascades
[AD-A141904] 20 p3196 N84-30297
Aeroelastic effects in multi-rotor vehicles with application to a hybrid heavy lift system. Part 1: Formulation of equations of motion
[NASA-CR-3822] 21 p3344 N84-31216
Active controls: A look at analytical methods and associated tools
[NASA-TM-86269] 21 p3419 N84-31684
Summary of recent NASA propeller research
[NASA-TM-83733] 22 p3529 N84-32344
Experience with transonic unsteady aerodynamic calculations
[NASA-TM-86278] 22 p3530 N84-32353
Refined methods of aeroelastic analysis and optimization — swept wings, propeller theory, and subsonic flutter
[NASA-CR-173967] 23 p3760 N84-33835
Active suppression of aeroelastic instabilities on a forward swept wing using a linear optimal regulator
[AD-A144561] 24 p3854 N84-34442

AEROEMBOLISM
Decompression procedures for flying after diving, and diving at altitudes above sea level
[AD-A132039] 04 p0572 N84-13771

AEROLOGY
Reports from the German Meteorological Service, no. 163. Contribution to the classification of waste heat weather situations by means of thermal stratification. Upper Rhine model. Waste heat project, Upper Rhine, part 2
[ISBN-3-88148-206-7] 12 p1849 N84-22048

AEROMAGNETISM
U GEOMAGNETISM
Do satellite magnetic anomaly data accurately portray the crustal component? 15 p2356 N84-25134
Long-wavelength magnetic and gravity anomaly correlations of Africa and Europe
15 p2356 N84-25135
US aeromagnetic and satellite magnetic anomaly comparisons 15 p2356 N84-25136
Quantitative interpretation of aeromagnetic anomalies in the Sinclinal Gandarela
[INPE-3070-PRE/487] 22 p3614 N84-32898

AEROMAGNETO FLUTTER
U FLUTTER

AERONAUTICAL ENGINEERING
Aeronautical Engineering: A continuing bibliography with indexes (supplement 165)
[NASA-SP-7037(165)] 01 p0001 N84-10008
Aeronautics and space report of the President, 1982 activities
[NASA-TM-85454] 01 p0166 N84-11093
Aerospace research activities in West Germany
02 p0169 N84-11115
National Aeronautics and Space Administration authorization, 1984, volume 2
[GPO-19-605] 02 p0303 N84-11988
Research and technology, 1983
[NASA-TM-85702] 02 p0309 N84-12026
Aeronautical Engineering: A continuing bibliography with indexes (supplement 166)
[NASA-SP-7037(166)] 03 p0311 N84-12027
AFWAL FY82 technical accomplishments
[AD-A131839] 03 p0315 N84-12054
Aeronautical Engineering, a continuing bibliography with indexes
[NASA-SP-7037(168)] 04 p0477 N84-13136
Aeronautical Engineering: A continuing bibliography with indexes (supplement 167)
[NASA-SP-7037(167)] 04 p0477 N84-13137
Research and technology, 1983
[NASA-TM-83540] 04 p0615 N84-14061
NASA's five-year plan
[GPO-27-459] 05 p0757 N84-14964
A summary of the Naval Postgraduate School Research Program
[AD-A132871] 05 p0766 N84-15024
European Scientific Notes, volume 37, numbers 10/11
[AD-A134360] 07 p1084 N84-17053
Aeronautical engineering. A continuing bibliography with indexes, supplement 169, January 1984
[NASA-SP-7037(169)] 08 p1095 N84-17117
The Prandtl Hergesell project of a National Research Establishment for Aeronautics
[DFVLR-MITT-83-10] 08 p1096 N84-17123
The Concorde and aeronautical research
[NASA-TM-76973] 09 p1249 N84-18153
Significant NASA inventions available for licensing in foreign countries
[NASA-SP-7038(05)] 09 p1399 N84-19133
Significant NASA inventions available for licensing in foreign countries
[NASA-SP-7038(07)] 09 p1399 N84-19134
Scientific and technical information output of the Langley Research Center
[NASA-TM-85735] 09 p1399 N84-19137
Aeronautical engineering, a continuing bibliography with indexes
[NASA-SP-7037(171)] 10 p1419 N84-19279
Aeronautical Engineering: 1983 cumulative index
[NASA-SP-7037(170)] 10 p1546 N84-20133
The historical development and basis of human factors guidelines for automated systems in aeronautical operations
[NASA-CR-166560] 10 p1552 N84-20174
For the sacred air space of our homeland
[AD-A137189] 11 p1599 N84-20476
Calendar of selected aeronautical and space meetings
[AGARD-CAL-83/2] 11 p1761 N84-21490
Aeronautical Engineering: A continuing bibliography, supplement 172
[NASA-SP-7037(172)] 12 p1763 N84-21492
Acta aeronautica et astronautica sinica (selected articles
[AD-A138531] 12 p1764 N84-21506
Aeronautics and Space Engineering Board: Aeronautics Assessment Committee
[NASA-TM-85594] 13 p1967 N84-22771
Cost effectiveness of reliability in the aerospace industry
[PNR-90187] 13 p1999 N84-22971
Ilyushin design bureau achievements profiled
14 p2093 N84-23554
AGARD index of publications, 1980-1982
[ISBN-92-835-1462-9] 14 p2248 N84-24502
Activities of the Aeronautics and Space Engineering Board Commission on Engineering and Technical Systems
[NASA-CR-173529] 15 p2265 N84-24600
Future of aeronautics
[GPO-29-744] 15 p2419 N84-25529
Astronautics and aeronautics, 1976. A chronology
[NASA-SP-4021] 15 p2431 N84-25602
Aeronautical Engineering, a continuing bibliography with indexes, supplement 173
[NASA-SP-7037(173)] 16 p2433 N84-25603
Aeronautical Engineering: A continuing bibliography with indexes, supplement 174
[NASA-SP-7037(174)] 16 p2433 N84-25604
Review of aeronautical fatigue investigations in the Netherlands during the period March 1981 - February 1983
[AD-B082166] 16 p2502 N84-26057
Flight dynamics and aircraft piloting
[ONERA-P-1983-1] 16 p2539 N84-26301
Aeronautical Engineering: A Continuing Bibliography with indexes (supplement 176)
[NASA-SP-7037(176)] 19 p2956 N84-28733
Proposal and development plan for an aircraft systems integration laboratory
[AD-A141827] 19 p2970 N84-28822
Air Force Academy Aeronautics Digest
[AD-A142399] 20 p3125 N84-29849
Theoretical and measured airflow about the Twin Otter wing
[AD-A141974] 20 p3126 N84-29855
Proceedings of the Symposium on Mechanics for Space Flight
[ISAS-SP-2] 20 p3168 N84-30114
Historical research and development inflation indices for Army fixed and rotor winged aircraft
[AD-A142943] 21 p3323 N84-31085
Graduate engineering research participation in aeronautics
[NASA-CR-173849] 21 p3507 N84-32220
Calendar of selected aeronautical and space meetings
[AGARD-CAL-84/1] 21 p3527 N84-32341
Aeronautical Engineering: A continuing bibliography with indexes (supplement 177)
[NASA-SP-7037(177)] 22 p3529 N84-32342
Aeronautical Engineering: A Continuing Bibliography with indexes
[NASA-SP-7037(178)] 22 p3529 N84-32343
The 1985 NASA authorization, volume 2
[GPO-34-202] 22 p3676 N84-33301
Aeronautics and space report of the President, 1983 activities
[NASA-TM-85538] 22 p3684 N84-33364

Manufacturing developments to reduce strategic materials usage 23 p3703 N84-33475
Report of the working group on large-scale computing in aeronautics
[AGARD-AR-209] 23 p3813 N84-34177
Notice for airmen, part 2. Index of approved manufacturing operations for aeronautical appliances according to paragraph 18 of test procedures for aeronautical appliances
[NFL-II-38/84] 24 p3847 N84-34394
Notice for airmen, part 2. Index of approved aeronautical engineering operations and of independent inspectors according to paragraph 33 of test procedures for aeronautical appliances
[NFL-II-39/84] 24 p3847 N84-34395

AERONAUTICAL SATELLITES
Test and evaluation of the Satellite-Aided Maritime Search and Rescue System (SAMSARS). Volume 1: System description and test results
[PB84-184621] 22 p3540 N84-32412

AERONAUTICS
World and United States aviation and space records, as of June 1, 1983 01 p0001 N84-10009
Design, development and flight test of a demonstration advanced avionics system 06 p0773 N84-15067
Fuel economy in aviation
[NASA-SP-462] 06 p0786 N84-15144
A review of US international aviation policy
[GPO-18-813] 07 p1087 N84-17070
Research and technology report, 1983
[NASA-TM-85865] 08 p1247 N84-18152
AGARD highlights
[AGARD-HIGHLIGHTS-83/1] 12 p1763 N84-21493
Aerospace research and technology in Germany 12 p1763 N84-21500
General aviation activity and avionics survey
[AD-A139936] 15 p2254 N84-24536
The ONERA Aeronautics Research Establishment in Cannes (France)
[ONERA-P-1983-2] 16 p2565 N84-26455
International aviation (selected articles)
[AD-A140895] 17 p2601 N84-26671
Modernization of the US national airspace system. Foundation for the future
[AD-A144332] 24 p3853 N84-34435
Fleet project team participation in major aviation training device development, acquisition and support
[AD-A144182] 24 p3857 N84-34452

AERONOMY
Rocket and laboratory studies in aeronomy and astronomy
[NASA-CR-173272] 07 p1088 N84-17075
Research in aeronomy
[NASA-CR-175370] 08 p1185 N84-17721
SMM-UVSP ozone profile inversion programs
[NASA-CR-175216] 10 p1533 N84-20042
Earth Observing System. Volume 1, part 2: Science and mission requirements. Working group report appendix
[NASA-TM-86129-VOL-1-PT-2] 20 p3217 N84-30433
Aeronomy 20 p3219 N84-30449

AEROPHYSICS
U ATMOSPHERIC PHYSICS

AEROSOLS
NT FOG
A stochastic atmospheric model for remote sensing applications
[NASA-CR-172181] 01 p0100 N84-10648
Forward multiple scattering corrections as function of detector field of view
[AD-A130631] 01 p0106 N84-10686
Atmospheric infrared backscatter:: Summary of present knowledge and recommendations for future work
[PB83-222281] 01 p0106 N84-10690
Atmospheric IR transmission data for a temperate maritime environment
[AD-A131035] 01 p0147 N84-10968
In-situ light scattering techniques for determining aerosol size distributions and optical constants
[AD-A131363] 01 p0148 N84-10970
Solar radiative impacts of graphitic carbon (soot) in aerosols, clouds and snow 02 p0243 N84-11592
The development and implementation of techniques to determine the concentrations of environmental pollutants arising from energy production
[DE83-015386] 02 p0244 N84-11599
The application of multivariate source/receptor models to aerosol mass apportionment
[DE83-014592] 02 p0245 N84-11603
Measurements of atmospheric aerosols: Experimental methods and results of measurements off the east coast of the United States
[AD-A130998] 02 p0248 N84-11626
The Istituto di Ricerca sulle Onde Elettromagnetiche (IROE)-lidar remote sensing of the environment 03 p0396 N84-12590
Optical extinction coefficients beneath marine stratus clouds. Comparison of coefficients calculated from observed aerosol spectra with coefficients specified by the Navy aerosol model
[AD-A132011] 03 p0410 N84-12685
Asthalometer: An instrument for the real-time measurement of optical absorption by aerosol particles
[DE84-000400] 04 p0538 N84-13538
Characterization of reactants, reaction mechanisms and reaction products leading to extreme acid rain and acid aerosol conditions in southern California
[PB83-252825] 04 p0561 N84-13697
Aerosol size distribution using the extinction-sedimentation inversion technique
[AD-A132158] 04 p0563 N84-13711
Optical properties of the marine aerosol as predicted by a BASIC version of the Navy aerosol model
[AD-A132411] 04 p0604 N84-13986
Calculation of atmospheric transmittance by IBM 3033 computer code LOWTRAN IIIB
[AD-A132123] 04 p0604 N84-13989
The effects of long-range transport of air pollutants on artic cloud-active aerosol 05 p0702 N84-14604
The turbulent transfer of ions to the Earth's surface 05 p0706 N84-14630
Measurements of optical properties of particulates in an arid region
[AD-A132889] 05 p0709 N84-14844
Satellite measurements of marine aerosols 06 p0871 N84-15671
Status of research in progress at the Inhalation Toxicology Research Institute
[DE83-012610] 06 p0875 N84-15694
Radiative-dynamic properties of Arctic stratus clouds and their possible modification by aerosol particles
[DFVLR-FB-83-23] 06 p0882 N84-15740
Exposure chamber for studies of pollutant gases and aerosols in human subjects: Design considerations
[DE84-001135] 06 p0890 N84-15785
Determination of particle-size distribution by measuring the transmission of an aerosol in sedimentation
[AD-A133288] 06 p0918 N84-15962
Jet-impact nebulization for sample introduction in inductively coupled plasma spectrometry
[AD-A133152] 06 p0920 N84-15982
Observations of Radioactivity, no. 21, 1981
[ISBN-951-697-191-1] 07 p1027 N84-16853
Local effects of partly-cloudy skies on solar and emitted radiations
[NASA-CR-173189] 07 p1035 N84-16711
Arctic haze: Natural or pollution?
[AD-A134263] 07 p1039 N84-16737
Light scattering condensation nuclei, and air mass trajectories at Whiteface Mountain: Summer 1982
[PB84-104363] 08 p1188 N84-17742
Satellite measurements of atmospheric aerosols
[AD-A135241] 08 p1190 N84-17757
Sea salt aerosol, atmospheric radon and meteorological observations in the western South Atlantic Ocean (February 1981)
[AD-A134792] 08 p1195 N84-17794
Laboratory investigation of the fate of diesel emissions in the atmosphere
[PB84-118496] 09 p1343 N84-18772
Properties of aerosols during a dust storm over the Beijing area
[AD-A136521] 09 p1344 N84-18783
Optical detection loss due to air-borne salts on Diego Garcia
[AD-A136120] 09 p1346 N84-18792
The optical spectra of aerosols
[AD-A135687] 09 p1377 N84-18993
Aerosol detection by polarization measurements 10 p1535 N84-20057
A molecular identification device for individual sub-micron aerosols: Engineering breadboard device
[AD-A137139] 10 p1536 N84-20067
Effectiveness of a device for detection of bacteriological aerosols; improvements in standardization and sensitivity in the laboratory
[FOA-C-40175-B2] 10 p1546 N84-20132
Chemiluminescent/laser diode measurement technique intercomparison and captive air measurement program
[PB84-134485] 11 p1661 N84-20639
Influence of stratospheric aerosols forming during combustion of rocket fuels on Earth's albedo 11 p1670 N84-20899
Determining optical characteristics of stratospheric aerosol by multifrequency laser sounding method 11 p1670 N84-20900
Atmospheric aerosol research for FY 82
[DE84-004308] 11 p1676 N84-20937
Relation of urban model performance to stability
[PB84-130418] 11 p1676 N84-20940
Vertical structure and convective dynamics of the equatorial region on Jupiter 11 p1758 N84-21473
Observing system simulation experiments related to space-borne Lidar wind profiling. Part 2: Sensitivity to atmospheric and instrumental influences 12 p1850 N84-22053
Boron in the marine atmosphere 13 p2010 N84-23036
Inversion of experimental optical data
[AD-A139979] 13 p2043 N84-23257
Measurement and analysis of diffuse solar irradiance 13 p2091 N84-23546
AVHRR aerosol ground truth experiment
[PB84-157882] 14 p2181 N84-24065
Aerosol growth in a cold environment
[AD-A139907] 15 p2287 N84-24720
Low temperature fluorination of aerosol suspensions of hydrocarbons utilizing elemental fluorine
[AD-A139958] 15 p2287 N84-24721
The effects of meteorology on marine aerosol and optical and in propagation 15 p2323 N84-24950
Aerosol characteristics on the Alboran sea, 9-18 october 1982
[AD-A139892] 15 p2371 N84-25227
Channel cooling by turbulent convective mixing
[AD-A139724] 15 p2410 N84-25466
Remote measurements of tropospheric aerosol scattering properties by an airborne high spectral resolution lidar 16 p2520 N84-26179
The orientation distribution on nonspherical aerosol particles within a cloud
[AD-A140470] 16 p2526 N84-26216
Collective mode of evolution of plasma produced by optical breakdown in aerosol medium 17 p2631 N84-26828
Turbulent flow of aerosol in rotating channels of turbomachines 17 p2649 N84-26939
Radiative heat exchange in atmosphere disturbed by volcanic eruption 17 p2698 N84-27184
Influence of tropospheric aerosol on integral albedo of cloudy atmosphere. Underlying surface system 17 p2707 N84-27236
Condensational variability of scattering phase function 17 p2707 N84-27240
Drift movement of aerosol particles in field of atmospheric gravity waves 17 p2708 N84-27242
Temperature and humidity profiles in the atmosphere from spaceborne lasers: A feasibility study 17 p2716 N84-27292
Aerosol chamber of Atmospheric Optics Institute 18 p2864 N84-28183
Identification of aerosol composition from multi-wavelength lidar measurements
[NASA-CR-173445] 18 p2877 N84-28268
Analysis of metals in atmospheric particules for spectrophotometry of atomic absorption 18 p2877 N84-28269
The optical spectra of aerosols
[AD-A141571] 19 p3104 N84-29719
Scientific analysis of existing data on aerosol dispersion and transport in a mountain valley
[AD-A142013] 20 p3238 N84-30555
Effect of living conditions in confined space on formation of bacterial aerosol 20 p3255 N84-30659
Laboratory for Energy Related Health Research
[DE84-000529] 20 p3257 N84-30672
Growth and characterization of metal oxide whiskers for aerosol filtration
[DE84-011049] 20 p3310 N84-31021
Total aerosol volume computed from laser spectrometer particle-size data for comparison with flame photometer total-mass data
[AD-A143171] 21 p3359 N84-31306
Development of a global model for atmospheric backscatter at CO2 wavelengths
[NASA-CR-171130] 21 p3382 N84-31459
A 1-dimensional time dependent model of the stratospheric aerosol 21 p3437 N84-31808
Development of a global model for atmospheric backscatter at CO2 wavelengths
[NASA-CR-171117] 21 p3442 N84-31835
Development of a global model for atmospheric backscatter at CO2 wavelengths
[NASA-CR-171116] 21 p3442 N84-31836
Development of a global model for atmospheric backscatter at CO2 wavelengths
[NASA-CR-171127] 21 p3442 N84-31837
Double scattering background in a CW lidar 21 p3483 N84-32072
Agglomeration and pecipitation by sonic-inertial means: Abstract of the state of the art
[REPT-0563/84] 21 p3491 N84-32126
The climatic impact of volcanic activity 22 p3624 N84-32963

Aerosol measurements at an optical propagation site on the Outer Hebrides
[AD-A143564] 22 p3625 N84-32972
Plasma-particle interaction effects in induction plasma modelling under dense loading conditions
[DE84-013388] 22 p3660 N84-33203
Measurement of range-resolved water vapor concentration by coherent CO2 differential absorption lidar
[AD-A143594] 23 p3753 N84-33791
Quantitative determination of aerosol concentrations by lidar with respect to various relative humidities
23 p3780 N84-33998
Chemical analysis of ions in rain water in natural regions: Correlations with aerosols in the atmosphere
[INPE-2856-PRE/395] 23 p3792 N84-34052
Preliminary chemical analysis of rain water in Cubatao: Ambient effects
[INPE-2857-PRE/396] 23 p3792 N84-34053
A study of long aerosol initiated laser induced air breakdown plasmas
[AD-A143967] 23 p3828 N84-34279
USSR report: Chemistry
[JPRS-UCH-84-007] 24 p3867 N84-34508
Development of a global model for atmospheric backscatter at CO2 wavelengths
24 p3924 N84-34838
Atmospheric effects on coherent lidar systems
24 p3924 N84-34839

AEROSPACE ENGINEERING
NT AERONAUTICAL ENGINEERING
Aerospace research activities in West Germany
02 p0169 N84-11115
National Aeronautics and Space Administration authorization, 1984, volume 2
[GPO-19-605] 02 p0303 N84-11988
Research and technology, 1983
[NASA-TM-85702] 02 p0309 N84-12026
Activities report of the aerospace industry in West Germany 03 p0328 N84-12140
Practical experience during installation of the large multiaxes vibration test facility SAMSON
03 p0339 N84-12199
Hydraulic actuators and associated components suited for multiaxis vibration systems — spacecraft testing
03 p0339 N84-12201
An overview of aerodynamic research and technology requirements as related to some military needs
[NASA-TM-85891] 04 p0477 N84-13138
Technology for large space systems: A bibliography with indexes
[NASA-SP-7046(09)] 04 p0488 N84-13204
The role of quality assurance in the development of software for space applications
05 p0723 N84-14743
NASA's five-year plan
[GPO-27-459] 05 p0757 N84-14964
FY 1983 scientific and technical reports, articles, papers and presentations
[NASA-TM-82547] 05 p0759 N84-14974
Detroit space odessey
[NASA-TM-85487] 06 p0792 N84-15164
Cleveland Space Odyssey
[NASA-TM-85493] 06 p0927 N84-16020
A guide to research in NASA history, 7th edition
[NASA-TM-85486] 06 p0935 N84-16076
Aerospace research activities
09 p1253 N84-18179
First European Space Mechanics and Tribology Symposium
[ESA-SP-196] 09 p1294 N84-18454
European technology requirements on space automation and teleoperation 09 p1297 N84-18477
Aerospace bibliography, seventh edition
[NASA-TM-85436] 09 p1399 N84-19136
Calendar of selected aeronautical and space meetings
[AGARD-CAL-83/2] 11 p1761 N84-21490
Developments in science and technology
[JHU/APL/DST-10] 11 p1761 N84-21491
AGARD Highlights, September 1983
[AGARD-HIGHLIGHTS-83/2] 12 p1763 N84-21494
Research activities at the Institute for Aerospace Studies, 1982 12 p1917 N84-22492
Guides to aerospace research and development in NATO countries. Bibliography
[AGARD-R-718] 12 p1920 N84-22509
AGARD index of publications, 1960-1982
[ISBN-92-835-1462-0] 14 p2248 N84-24502
Calendar of AGARD technical meetings 1984
14 p2262 N84-24526
The 16th Aerospace Mechanisms Symposium
[NASA-CP-2311] 15 p2346 N84-25078
Design and test of a low-temperature liner driver/rate controller 15 p2347 N84-25083
European scientific notes. Volume 38, Number 4
[AD-A140039] 15 p2416 N84-25506
Astronautics and aeronautics, 1976. A chronology
[NASA-SP-4021] 15 p2431 N84-25602
Projects and programs as a reflection of the performances of engineers in aircraft making by Hans-Wocke
[MBB-UT-24-83-O] 16 p2433 N84-25608
La Recherche Aerospatiale, Bimonthly Bulletin, no. 1983-6, 217/November-December
[ESA-TT-841] 16 p2476 N84-25870
The listing and approval procedure for materials and processes
[ESA-PSS-01-716-ISSUE-1] 16 p2500 N84-26046
The Airbus: The state-of-the-art today, and future developments
[MBB-UT-22-83-O] 16 p2562 N84-26437
Aerodynamic design using numerical optimization
[NASA-TM-85550] 17 p2599 N84-26661
Implementation and performance of algorithms on a vector calculator
[SNIAS-832-111-104] 18 p2920 N84-28519
Aerospace engineering design by systematic decomposition and multilevel optimization
[NASA-TM-85823] 19 p2962 N84-28775
National Aerospace Laboratory, 1982
19 p2969 N84-28813
Management of CAD/CAM information: Key to improved manufacturing productivity
[NASA-TM-86255] 19 p3080 N84-29545
European scientific notes. Volume 38, number 6
[AD-A142175] 19 p3116 N84-29801
The use of space laboratories for materials investigations, process engineering, and scientific purposes 20 p3133 N84-29895
Summer faculty fellowship program, 1984
[NASA-CR-172409] 21 p3507 N84-32221
Calendar of selected aeronautical and space meetings
[AGARD-CAL-84/1] 21 p3527 N84-32341
Shuttle detached spacecraft
[AD-A143320] 22 p3541 N84-32417
West Europe report: Science and technology
[JPRS-WST-84-030] 22 p3651 N84-33141
Spinoff, 1984
[NASA-TM-85596] 22 p3676 N84-33305
Charge control investigation of rechargeable lithium cells 23 p3736 N84-33671
European scientific notes
[AD-A144223] 24 p3995 N84-35284

AEROSPACE ENVIRONMENTS
NT DEEP SPACE
NT INTERPLANETARY SPACE
NT INTERSTELLAR SPACE
The hydraulic multiaxes vibrator: Its capabilities to simulate real mechanical environments and to verify aerospace structures 03 p0339 N84-12198
Winds: Chapter 6, 1983 revision. Handbook of Geophysics and Space Environments
[AD-A132018] 03 p0410 N84-12683
Avduyevskiy on accomplishments and prospects of cosmonautics 05 p0634 N84-14168
The gaseous and plasma environment around space shuttle
[AD-A133900] 05 p0643 N84-14231
Space Technology Experiments Platform (STEP) overview 08 p1109 N84-17212
The effects of the space environment on damping materials and damping designs on flexible structures
08 p1110 N84-17217
Structural development and gravity
09 p1353 N84-18842
Bone loss in tail-suspended rats in restricted to the unweighted limbs 09 p1353 N84-18843
Simulating certain aspects of hypogravity: Effects on the mandibular incisors of suspended rats (PULEH model) 09 p1353 N84-18844
The effects of spaceflight on the mineralization of rat incisor dentin 09 p1353 N84-18845
Influence of stress, weightlessness, and simulated weightlessness on differentiation of preosteoblasts
09 p1354 N84-18846
Environmental effects on the dynamics and control of an orbiting large flexible antenna system
[NASA-CR-175448] 11 p1623 N84-20627
Dynamic spacecraft simulators in military space ground systems
[AD-P002159] 14 p2139 N84-23825
Long Duration Exposure Facility (LDEF). Mission 1 Experiments
[NASA-SP-473] 15 p2270 N84-24632
Influence of extended exposure in space on mechanical properties of high-toughness graphite-epoxy composite material (A0019) 15 p2271 N84-24637
Effect of space environment on space-based radar phased-array antenna (A0133) 15 p2271 N84-24638
Space exposure of composite materials for large space structures (A0134) 15 p2271 N84-24639
Effect of space exposure of some epoxy matrix composites on their thermal expansion and mechanical properties (A0138-8) 15 p2272 N84-24640
The effect of the space environment on composite materials (A0138-9) 15 p2272 N84-24641
The effect of space environment exposure on the properties of polymer matrix composite materials (A0180) 15 p2272 N84-24644
Space environment effects on spacecraft materials (M0003) 15 p2272 N84-24645
Thermal control surface experiment (S0069)
15 p2273 N84-24649
Ion-beam-textured and coated surfaces experiment (S1003) 15 p2273 N84-24650
Space plasma high-voltage drainage experiment (A0054) 15 p2274 N84-24655
Solar-array-materials passive LDEF experiment (A0171) 15 p2274 N84-24656
Advanced photovoltaic experiment (S0014)
15 p2274 N84-24657
Investigation of critical surface degradation effects on coatings and solar cells developed in Germany (S1002)
15 p2275 N84-24658
Space aging of solid rocket materials (P0005)
15 p2275 N84-24659
Vacuum-deposited optical coatings experiment (A0138-4) 15 p2278 N84-24681
Space environment effects on fiber optics systems
15 p2279 N84-24689
Space environment effects (M0006)
15 p2279 N84-24690
Summary of environmentally induced electrical discharges on the P78-2 (SCATHA) satellite
[AD-A140077] 15 p2282 N84-24705
Coated flexible laminate and method of its production
[NASA-CASE-GSC-12913-1] 15 p2301 N84-24807
TOPEX orbital radiation study
[NASA-TM-85447] 16 p2582 N84-26562
Techniques for the analysis of spectral and orbital congestion in space systems
[AD-A140841] 17 p2614 N84-26734
Natural environment design criteria for the space station program definition phase
[NASA-TM-82585] 17 p2615 N84-26740
Analogies between control mechanisms in flight guidance and medicine 17 p2744 N84-27420
Space station needs, attributes and architectural options study. Volume 7-1: Data book. Science and applications missions
[NASA-CR-173700] 18 p2804 N84-27796
Piecewise simulation proton test of gallium arsenide and thin silicon solar cells 19 p3045 N84-29317
Radiation tolerance of low resistivity, high voltage silicon solar cells 19 p3045 N84-29318
On-orbit performance of LIPS gallium arsenide solar cell experiment 19 p3045 N84-29319
He-3 cooling systems for space
[NASA-TM-85985] 20 p3183 N84-30226
Innovations in cosmonaut medical monitoring, physical conditioning 21 p3347 N84-31229
Medical research in first 100 days of Salyut-7 flight
21 p3347 N84-31230
Cosmonaut Berezovoy's memoirs on 211-day spaceflight 21 p3347 N84-31231
Excerpt from cosmonaut Aleksandrov's flight diary
21 p3347 N84-31232
DC (Direct-Current) partial-discharge-environmental screening of space TWTs (Traveling Wave Tubes)
[AD-A143230] 22 p3586 N84-32710
Effect of cyclic changes in cultivation conditions of growth kinetics and physiological properties of yeasts
22 p3629 N84-32998
National Aeronautics and Space Administration Authorization Act, 1985
[PUB-LAW-98-361] 22 p3676 N84-33303
Space station program description document. Books 1-7
[NASA-TM-86652-BK-1-7] 23 p3698 N84-33437
System requirements and characteristics, book 3
[NAS 1.15:86652-BK-3] 23 p3698 N84-33440
Advanced development program, books 4 and 5
[NAS 1.15:86652-BK-4/5] 23 p3699 N84-33441
Stand on space station participation to be surveyed
23 p3732 N84-33658
A low Earth orbit molecular beam space simulation facility 24 p3863 N84-34483
LEO atomic oxygen effects on spacecraft materials: STS-5 results
[NASA-TM-86463] 24 p3867 N84-34506
Conceptual design of a hybrid Ge:Ga
[NASA-CR-166605] 24 p3902 N84-34708

AEROSPACE INDUSTRY
NT AIRCRAFT INDUSTRY
Space commercialization
[GPO-22-870] 01 p0017 N84-10108

Aerospace research activities in West Germany
02 p0169 N84-11115
Electroforming of complicated structures for the nuclear and aerospace industry
[MBB-BB-536-82-OE] 02 p0207 N84-11350
Space Station needs, attributes and architectural options, volume 2, book 2, part 4: International reports
[NASA-CR-173319] 09 p1271 N84-18303
AGARD Highlights, March 1984
[AGARD-HIGHLIGHTS-84/1] 12 p1763 N84-21498
The aerospace industry in Germany: Today and tomorrow
12 p1764 N84-21501
Management of CAD/CAM information: Key to improved manufacturing productivity 12 p1889 N84-22300
Product definition data interface
12 p1891 N84-22314
Guides to aerospace research and development in NATO countries. Bibliography
[AGARD-R-718] 12 p1920 N84-22509
Impact of corporate resource allocation decisions on national security objectives: Dissynergism in aerospace industrial resource planning
[AD-P002601] 13 p2058 N84-23347
The Score technique: An analytical approach for assessing the results of manufacturing reviews
[AD-P002838] 13 p2064 N84-23383
West Europe report: Science and technology
[JPRS-WST-84-001] 14 p2135 N84-23799
Projects and programs as a reflection of the performances of engineers in aircraft making by Hans-Wocke
[MBB-UT-24-83-O] 16 p2433 N84-25608
The industry's materials: SNIAS and general conditions of its environment
[SNIAS-832-502-101] 16 p2475 N84-25865
Project management in the 80's
[MBB-UR-631-83-O] 16 p2564 N84-26454
Guide to Canadian aerospace related industries
[AD-A140606] 17 p2598 N84-26650
Evaluating the availability, role, and performance of subcontractors in the aerospace industry
[AD-A141408] 19 p3114 N84-29788
Scientific-Technical Facilities Department. Scientific-technical report
[ESA-TT-843] 20 p3321 N84-31083
Factors affecting the supply of strategic raw materials with particular reference to the aerospace manufacturing industry 23 p3702 N84-33467

AEROSPACE MEDICINE

AGARD Bulletin, technical programme, 1984
[AGARD-BUL-83/2] 01 p0002 N84-10010
USSR report: Space Biology and Aerospace Medicine, volume 17, no. 5, September - October 1983
[JPRS-84655] 02 p0259 N84-11693
Programmatic comments 02 p0263 N84-11732
Aerospace Medicine and Biology: A continuing bibliography with indexes (supplement 250)
[NASA-SP-7011(250)] 03 p0415 N84-12712
Aerospace Medicine and Biology: A continuing bibliography with indexes (supplement 251)
[NASA-SP-7011(251)] 04 p0572 N84-13767
Aerospace medicine and biology: A continuing bibliography with indexes (supplement 252)
[NASA-SP-7011(252)] 06 p0886 N84-15763
USSR report: Space Biology and Aerospace Medicine, Vol. 17, No. 6, November - December 1983 94 p
[JPRS-USB-84-001] 07 p1044 N84-16769
Practical applications of advances in aviation medicine
07 p1044 N84-16770
Shielding part of bone marrow as a method of local protection against cosmic radiation
07 p1044 N84-16771
Fluid intake at high altitudes 07 p1044 N84-16772
Mental status and work capacity of Salyut-6 station crew members 07 p1044 N84-16773
Changes in some rheological parameters of blood in experiments simulating weightlessness
07 p1044 N84-16774
G suit of bladderless type as a means of improving orthostatic stability after water immersion hypokinesia nd exposure to accelerations 07 p1045 N84-16775
Study of metabolic sequelae of using positive intrapulmonary pressure during exposure to accelerations 07 p1045 N84-16776
Effect of sydnocarb on hemodynamics and redistribution of blood during functional tests following six-hour antiorthostatic hypokinesia 07 p1045 N84-16777
Respiratory tract closing volume and structure of total lung capacity during seven-day hypokinesia in head-down position 07 p1045 N84-16778
Aerospace Medicine and Biology: A continuing bibliography with indexes (supplement 253)
[NASA-SP-7011(253)] 07 p1047 N84-16790
Military Medical Journal, no. 7, 1983
[L-2456] 08 p1198 N84-17811
Prevention of flight fatigue by physical training
08 p1198 N84-17812
Military Medical Journal, no. 2, 1983
[L-2341] 08 p1199 N84-17814
Military Medical Journal, no. 3, 1983
[L-2399] 08 p1199 N84-17817
Analysis of the kinematic properties data of the shoulder complex during forced motion
[AD-A135913] 09 p1362 N84-18895
Aerospace Medicine and Biology: A continuing bibliography with indexes (supplement 255)
[NASA-SP-7011(255)] 10 p1546 N84-20134
Space Station medical sciences concepts
[NASA-TM-58255] 11 p1693 N84-21040
Aerospace Medicine and Biology: 1983 cumulative index
[NASA-SP-7011(254)] 11 p1693 N84-21043
Aerospace medicine and biology: A continuing bibliography with indexes
[NASA-SP-7011(256)] 11 p1693 N84-21044
System for the management of trauma and emergency surgery in space
[NASA-CR-175439] 11 p1693 N84-21045
Sustained Intensive Air Operations: Physiological and Performance Aspects
[AGARD-CP-338] 11 p1696 N84-21062
Thermal constraints in a helicopter during long duration flights under extreme climatic conditions
11 p1698 N84-21078
Non-invasive methods of cardiovascular exploration in aerospace medicine
[AGARD-AG-277(E)] 11 p1699 N84-21082
Main electrocardiographic abnormalities in the medical examination of flying personnel
11 p1699 N84-21083
Ventricular pre-excitation syndromes
11 p1699 N84-21084
Continuous ECG monitoring by the Holter method
11 p1700 N84-21086
The Holter method in aeronautical medicine
11 p1700 N84-21087
Contribution of standard X-ray to cardiovascular exploration during the clinical examination of flying personnel 11 p1700 N84-21088
Value of the lower body negative pressure test in aerospace medicine 11 p1701 N84-21096
Aerospace Medicine and Biology: A continuing bibliography with indexes, supplement 257
[NASA-SP-7011(257)] 12 p1864 N84-22146
USSR report: Space Biology and Aerospace Medicine, volume 18, no. 1, January - February 1984
[JPRS-USB-84-002] 12 p1864 N84-22149
Thirteenth Gagarin Conference
12 p1865 N84-22151
Aerospace Medicine and Biology: A continuing bibliography with indexes (supplement 258)
[NASA-SP-7011(258)] 14 p2184 N84-24088
The effects of Gx, Gy and Gz forces on cone mesopic vision
[AD-A139498] 14 p2185 N84-24092
Airsickness during Naval flight officer training: Fleet readiness squadrons
[AD-A138973] 14 p2185 N84-24095
USSR report. Life sciences: Biomedical and behavioral sciences
[JPRS-UBB-84-007] 14 p2250 N84-24515
Contributions of space medicine to medical research
14 p2251 N84-24517
Calendar of AGARD technical meetings 1984
14 p2252 N84-24526
AGARD bulletin: Meetings, publications, membership
[AGARD-BUL-84/1] 14 p2252 N84-24527
Review of book on space radiobiology
15 p2378 N84-25270
Astronautics and aeronautics, 1976. A chronology
[NASA-SP-4021] 15 p2431 N84-25602
Aermedical Support in Military Helicopter Operations
[AGARD-LS-134] 16 p2536 N84-26279
Aeromedical support in military helicopter operations
16 p2536 N84-26280
Stressful mission profiles, part 1
16 p2536 N84-26281
Stressful mission profiles, part 2: Workload and fatigue 16 p2536 N84-26282
Visual problems in helicopter operations
16 p2536 N84-26283
Disorientation in helicopter flight
16 p2536 N84-26284
Hearing loss associated with helicopter flight
16 p2537 N84-26285
Thermal control problems in military helicopters
16 p2537 N84-26286
Medical aspects of helicopter safety and crashworthiness 16 p2537 N84-26287
Back pain in helicopter flight operations
16 p2537 N84-26288
Aeromedical support of helicopter medical evacuation and rescue operations 16 p2537 N84-26289
Aerospace Medicine and Biology: A continuing bibliography with indexes (supplement 259)
[NASA-SP-7011(259)] 17 p2743 N84-27415
Research opportunities in muscle atrophy
[NASA-CR-3796] 17 p2743 N84-27416
Research opportunities in bone demineralization, phase 3
[NASA-CR-3795] 17 p2743 N84-27417
Are living cells sensitivity to gravity?
[DFVLR-MITT-83-19] 17 p2743 N84-27418
The research program of the Institute for Aerospace Medicine 17 p2744 N84-27419
Analogies between control mechanisms in flight guidance and medicine 17 p2744 N84-27420
The deep diving simulator TITAN: Physiological problems of stays in large water depths
17 p2745 N84-27427
Psychological evaluation of aircrew members
[AD-P003286] 18 p2908 N84-28440
USSR report: Space
[JPRS-USP-84-003] 19 p2970 N84-28823
Medical research program of 'Soyuz T-10' crew
19 p2971 N84-28826
Goals of cosmonaut At'kov's medical studies on 'Salyut-7' 19 p2971 N84-28827
Space biology and medicine: Yesterday and today
19 p2976 N84-28865
Aerospace Medicine and Biology: A continuing bibliography with indexes (supplement 260)
[NASA-SP-7011(260)] 19 p3064 N84-29440
A survey of biodynamic test devices and methods
[AD-A142467] 20 p3133 N84-29894
USSR report: Space Biology and Aerospace Medicine, vol. 18, no. 3, May - June 1984
[JPRS-USB-84-005] 20 p3252 N84-30642
Use of vitamins during adaptation to high altitudes
20 p3252 N84-30643
Circulatory changes in orthostatic position in the presence of hyperthermia 20 p3253 N84-30647
Blood plasma free amino acids under hypokinetic conditions 20 p3253 N84-30648
Biological effects of millimeter-wave irradiation: Living bacterial organisms
[AD-A142474] 20 p3256 N84-30670
Aerospace Medicine and Biology: A continuing bibliography with indexes (supplement 261)
[NASA-SP-7011(261)] 20 p3259 N84-30683
Increase in whole-body peripheral vascular resistance during three hours of air or oxygen prebreathing
[NASA-TM-58261] 20 p3259 N84-30684
USSR report: Space
[JPRS-USP-84-004] 21 p3347 N84-31228
Innovations in cosmonaut medical monitoring, physical conditioning 21 p3347 N84-31229
Medical research in first 100 days of Salyut-7 flight
21 p3347 N84-31230
USAFSAM (USAF School of Aerospace Medicine) review and analysis of radiofrequency radiation bioeffects literature
[AD-A142961] 21 p3453 N84-31912
Pulmonary artery location during microgravity activity: Potential impact for chest-mounted Doppler during space travel
[NASA-TM-58262] 21 p3457 N84-31935
Aerospace Medicine and Biology: A continuing bibliography with indexes
[NASA-SP-7011(262)] 22 p3630 N84-33003
Occupational Medicine Relevant to Aviation Medicine
[AGARD-CP-341] 22 p3631 N84-33011
Review of occupational medicine relevant to aviation medicine 22 p3631 N84-33012
Visual perception in systems management in aeronautics 22 p3632 N84-33017
USSR report: Life sciences. Biomedical and behavioral sciences
[JPRS-UBB-84-020] 23 p3805 N84-34128
Application of compartmentalization/air lock of simulated pressurized aircraft and tolerance of lung to rapid decompression in different laboratory animals
24 p3957 N84-35053

AEROSPACE SAFETY

Software testing of safety critical systems
06 p0774 N84-15073
Safety assurance of ESA spacecraft and associated equipment
[ESA-PSS-01-40-ISSUE-1] 16 p2500 N84-26039

AEROSPACE SCIENCES

Fourth outer space program of the German Federal Republic
[ISBN-3-88135-111-6] 01 p0017 N84-10110
Aeronautics and space report of the President, 1982 activities
[NASA-TM-85454] 01 p0166 N84-11093

USSR report: Space, no. 25
[JPRS-84946] 05 p0633 N84-14159
Fundamental astrometry today and tomorrow
05 p0634 N84-14165
Information sources and services in astronomy, astrophysics, and related space sciences
05 p0762 N84-14998
Transactions of the Japan Society for Aeronautical and Space Sciences, vol. 26, no. 73, November 1983
[ISSN-0549-3811] 07 p0984 N84-16374
Radar activities of the DFVLR Institute for Radio Frequency Technology 07 p0990 N84-16418
STEP Experiment Requirements
[NASA-CP-2294] 08 p1109 N84-17211
Space Technology Experiments Platform (STEP) overview 08 p1109 N84-17212
STEP electronic system design
08 p1109 N84-17214
Research and technology report, 1983
[NASA-TM-85865] 08 p1247 N84-18152
Scientific and technical information output of the Langley Research Center
[NASA-TM-85735] 09 p1399 N84-19137
Research and technology, fiscal year 1983
[NASA-TM-85557] 10 p1592 N84-20434
Optical Information Processing for Aerospace Applications 2
[NASA-CP-2302] 12 p1904 N84-22402
Computational modeling and mathematics applied to the physical sciences
[DE84-008252] 14 p2214 N84-24301
The research of National Defence's (FOA) future policy document on space technology
[FOA-A-30034-E1] 15 p2265 N84-24602
Technical and scientific publication 1983: Research and development 16 p2561 N84-26430
Space research in Belgium, 1982-1983
20 p3321 N84-31084
Aeronautics and space report of the President, 1983 activities
[NASA-TM-85538] 22 p3684 N84-33364

AEROSPACE SYSTEMS
Engineering services in support of the AFGL sounding rocket program
[AD-A131929] 03 p0340 N84-12211
Identification of bottlenecks and capacity constraints in F-14, F-15, F-16, and F/A-18 aircraft production
[AD-A134829] 08 p1095 N84-17121
Control strategies for complex systems for use in aerospace avionics
[AD-A135072] 08 p1104 N84-17179
Aerospace research activities
09 p1253 N84-18179
Air force technical objective document fiscal year 1985
[AD-A136724] 10 p1598 N84-20471
Guides to aerospace research and development in NATO countries. Bibliography
[AGARD-R-718] 12 p1920 N84-22509
Calendar of AGARD technical meetings 1984
14 p2252 N84-24526
Future of aeronautics
[GPO-29-744] 15 p2419 N84-25529
Multichannel detection systems available for flow diagnostics at AEDC
[AD-A132302] 16 p2452 N84-25722
Investment justification of robotic technology in aerospace manufacturing
[AD-A140782] 17 p2598 N84-28651
Techniques for the analysis of spectral and orbital congestion in space systems
[AD-A140841] 17 p2614 N84-26734
FY 1985 technical objective document
[AD-A140581] 17 p2770 N84-27586
National Aerospace Laboratory, 1982
19 p2969 N84-28813
Solar array: Plasma interactions
19 p3048 N84-29343
Geokinetic effects on motion sensitive instrumentation, systems and facilities
[AD-A142682] 20 p3241 N84-30575
Air force technical objective document FY 85
[AD-A141925] 20 p3312 N84-31033
USSR report: Electronics and electrical engineering
[JPRS-UEE-84-006] 22 p3565 N84-32580
Overview: Techniques for the analysis of spectral and orbital congestion in space systems
[AD-A143973] 23 p3697 N84-33426

AEROSPACE TECHNOLOGY TRANSFER
Space commercialization
[GPO-22-670] 01 p0017 N84-10106
Policy and legal issues involved in the commercialization of space
[GPO-21-495] 01 p0163 N84-11069
Potential means of support for materials processing in space. A history of government support for new technology
[NASA-TM-82554] 04 p0488 N84-13205
UNISPACE-82: Recommendations addressed to member states on the development of indigenous capabilities and follow-up actions for their implementation
[INPE-2915-PRE/427] 07 p1087 N84-17071
STEP Experiment Requirements
[NASA-CP-2294] 08 p1109 N84-17211
STEP electronic system design
08 p1109 N84-17214
STEP experiment integration
08 p1109 N84-17215
Deployable beam flight experiment (MAST)
08 p1110 N84-17218
AGARD Highlights, March 1984
[AGARD-HIGHLIGHTS-84/1] 12 p1763 N84-21498
Aerospace research and technology in Germany
12 p1763 N84-21500
The aerospace industry in Germany: Today and tomorrow 12 p1764 N84-21501
AGARD bulletin: Meetings, publications, membership
[AGARD-BUL-84/1] 14 p2252 N84-24527
Technical and scientific publication 1983: Research and development 16 p2561 N84-26430
Spinoff, 1984
[NASA-TM-85598] 22 p3676 N84-33305

AEROSPACE VEHICLES
NT FLEXIBLE SPACECRAFT
The effect of periodic overloads on flight-by-flight fatigue crack growth rates
[AD-A136407] 09 p1255 N84-18192
Aerospace vehicle
[NASA-CASE-LAR-13155-1] 11 p1624 N84-20628
Scattering of an electromagnetic plane wave from a perfectly electrically conducting half-plane in the proximity of planar media discontinuities
[AD-A138968] 13 p1983 N84-22876
Future of aeronautics
[GPO-29-744] 15 p2419 N84-25529
An operating system for future aerospace vehicle computer systems
[NASA-TM-85784] 16 p2546 N84-26340

AEROSTATS
U AIRSHIPS

AEROTHERMOCHEMISTRY
Executive summary, aerothermal modeling program, phase 1
[NASA-CR-174602] 03 p0348 N84-12263
Aerothermal modeling program, phase 1
[NASA-CR-168243-VOL-1] 03 p0348 N84-12264
Aerothermal modeling program, phase 1
[NASA-CR-168243-VOL-2] 03 p0348 N84-12265
Unsteady combustion of composite fuel droplets
[ONERA-NT-1983-3] 16 p2462 N84-25781

AEROTHERMODYNAMICS
Shuttle Performance: Lessons Learned, part 1
[NASA-CP-2283-PT-1] 01 p0018 N84-10115
A review of preflight estimates of real-gas effects on space shuttle aerodynamic characteristics
01 p0020 N84-10129
Shuttle Performance: Lessons Learned, part 2
[NASA-CP-2283-PT-2] 01 p0023 N84-10144
Calculation of shuttle base heating environments and comparison with flight data 01 p0023 N84-10145
Flight test derived heating math models for critical locations on the orbiter during reentry
01 p0023 N84-10147
Space shuttle wing leading edge heating environment prediction derived from development flight data
01 p0025 N84-10162
MINIVER upgrade for the AVID system. Volume 1: LANMIN user's manual
[NASA-CR-172212] 01 p0120 N84-10779
MINIVER upgrade for the AVID system. Volume 2: LANMIN input guide
[NASA-CR-172213] 01 p0120 N84-10780
Analytical prediction of aerothermal environment in a wing-elevon cove — space shuttle orbiter
[NASA-TM-85711] 03 p0370 N84-12412
Research on aero-thermodynamic distortion induced structural dynamic response of multi-stage compressor blading
[AD-A133853] 05 p0632 N84-14151
Loads and aeroelasticity division research and technology accomplishments for FY 1982 and plans for FY 1983
[NASA-TM-84594] 06 p0782 N84-15120
Aerothermal modeling, phase 1. Volume 1: Model assessment
[NASA-CR-168296-VOL-1] 06 p0790 N84-15155
Aerothermal modeling, phase 1. Volume 2: Experimental data
[NASA-CR-168296-VOL-2] 06 p0790 N84-15156
Aerothermodynamics of Low Pressure Steam Turbines and Condensers, volume 1 — conferences
[VKI-LS-1983-06-VOL-1] 06 p0840 N84-15472
The design of modern Low Pressure (LP) steam turbines 06 p0840 N84-15473
Turbine aerodynamic design using through-flow theory. Meridional through-flow calculation
06 p0840 N84-15474
Aerodynamics and steam wetness fraction of a multistage turbine. Comparison of prediction with experimental data 06 p0840 N84-15475
Applications of through-flow theory — steam turbines
06 p0840 N84-15477
Trends in steam turbine design, testing and manufacturing 06 p0840 N84-15478
A method of calculating fully three dimensional inviscid flow through any type of turbomachine blade row
06 p0840 N84-15479
A review of current research activity on the aerodynamics of axial flow turbines 06 p0841 N84-15480
Three-dimensional flow calculations on a hypothetical steam turbine last stage 06 p0841 N84-15481
Aerothermodynamics of Low Pressure Steam Turbines and Condensers, Volume 2 — conferences
[VKI-LS-1983-06-VOL-2] 06 p0841 N84-15482
Steam condenser thermal design theories
06 p0841 N84-15485
Digital computer program for generating dynamic turbofan engine models (DIGTEM)
[NASA-TM-83446] 07 p0954 N84-16185
Assessment of real gas effects on the prediction of the aerodynamics of high velocity Army shells
[AD-A134739] 08 p1099 N84-17150
A method for aerodynamic and aerothermodynamic conceptual design of capsule type reentry vehicle
[NAL-TR-779] 09 p1272 N84-18309
Nonlinear modeling and initial condition estimation for identifying the aerothermodynamic environment of the Space Shuttle Orbiter
[AD-A136928] 10 p1438 N84-19391
Hypersonic Aerothermodynamics
[VKI-LS-1984-01] 16 p2440 N84-25656
Shuttle flight data analysis 16 p2441 N84-25659
General introduction. Part 1: The waverider. Origins, evolution and applications. Part 2: Waverider aero-and aerothermodynamics. Part 3: Configuration design. Reentry gliders. Part 4: Configuration design. Cruise/ramjet vehicles 16 p2442 N84-25667
Operational and Performance Measurement on Engines in Sea Level Test Facilities
[AGARD-LS-132] 16 p2452 N84-25723
Aero/thermodynamic and acoustic considerations in the design of test-beds for turbojets and turbofans
16 p2452 N84-25725
Aerodynamic and thermal characteristics of 3-dimensional stellate bodies in rarefied gas
17 p2644 N84-26915
Wind tunnel material test to quantify Space Shuttle external tank insulation requirements
[AD-A141563] 19 p2981 N84-28890
Aerothermodynamic data base, phase C
[NASA-CR-173862] 21 p3351 N84-31259
Aerothermal loads analysis for high speed flow over a quilted surface configuration
[NASA-TM-86280] 21 p3399 N84-31560
Hypersonic three-dimensional flow of radiating gas around wing 21 p3481 N84-32062
Columbia: The first five flights. Entry heating data series. Volume 6: The upper leeside surface centerline
[NASA-CR-171795] 22 p3541 N84-32414
Aerothermodynamic data base
[NASA-CR-171807] 22 p3541 N84-32415
Parabolized Navier-Stokes solutions for hypersonicflow fields 23 p3688 N84-33373

AEROTHERMOELASTICITY
Four new capabilities in NASTRAN for dynamic and aeroelastic analyses of rotating cyclic structures
22 p3611 N84-32676

AFC (CONTROL)
U AUTOMATIC FREQUENCY CONTROL

AFCS (CONTROL SYSTEM)
U AUTOMATIC FLIGHT CONTROL

AFFECTS
U EFFECTS

AFFERENT NERVOUS SYSTEMS
Correlation of afferent activity and binocular receptive field properties
[AD-A143087] 21 p3457 N84-31938

AFFINITY
Positive ion-molecule reactions in OCS/hydrocarbon mixtures
[AD-A132350] 04 p0493 N84-13237

AFRICA
Euro-African MAGSAT anomaly-tectonic observations
15 p2355 N84-25129

Reduced to pole long-wavelength magnetic anomalies of Africa and Europe 15 p2355 N84-25132
Satellite magnetic anomalies of Africa and Europe 15 p2356 N84-25133
Long-wavelength magnetic and gravity anomaly correlations of Africa and Europe 15 p2356 N84-25135
A directory of European, Middle Eastern, and North African coastal ground control points for mapping satellite images
[AD-A142019] 20 p3228 N84-30512
African Doppler Surveys (ADOS)
[AD-A142738] 21 p3430 N84-31764

AFTERBODIES
Navier-Stokes computational study of the influence of shell geometry on the Magnus effect at supersonic speeds
[AD-A130630] 01 p0079 N84-10516
Afterbody propulsor performance validation for A 2.65 fineness ratio body advanced tactical vehicle
[AD-A131259] 01 p0080 N84-10517
Some aerodynamic characteristics of a projectile shape with a nonaxisymmetric boattail at Mach numbers of 0.91 and 3.02
[AD-A133755] 05 p0627 N84-14125
Missile rolling tail brake torque system — simulating bearing friction on canard controlled missiles
[NASA-CASE-LAR-12751-1] 07 p0961 N84-16231
Numerical investigation of the aerodynamics and stability of a flared afterbody for axisymmetric projectiles at supersonic speeds
[AD-A136826] 10 p1420 N84-19289
Three-dimensional flow over a conical afterbody containing a centered propulsive jet: A numerical simulation 10 p1560 N84-20222
Test techniques for jet effects on fighter aircraft 14 p2098 N84-23589
Design of a wind tunnel afterbody model for the development of a transonic combat aircraft 14 p2098 N84-23591
Transonic nozzle-afterbody flow field measurements using a laser Doppler velocimeter 14 p2098 N84-23592
On the evaluation of boundary layer measurements on boattailed bodies of revolution in axisymmetric compressible subsonic flow
[DFVLR-FB-84-09] 18 p2837 N84-28010
Self-deploying afterbody apparatus for an ejection seat
[AD-D011205] 24 p3852 N84-34433

AFTERBURNERS
U AFTERBURNING

AFTERBURNING
Some themes on Rolls-Royce military engine technology. Part 1: Old and new engines for combat aircraft. Part 2: After-burning technology
[PNR-90195] 13 p1934 N84-22579
Acoustic and photoelectric burnout detection of T-burner grains 13 p1946 N84-22650
Fuel property effects on USAF gas turbine engine combustors and afterburners 14 p2107 N84-23635

AFTERGLOWS
NT OXYGEN AFTERGLOW
Atmospheric-pressure argon afterglows as a detector for gas chromatography
[DE83-017695] 03 p0351 N84-12282
Ionic reactions of atmospheric importance
[AD-A137166] 11 p1683 N84-20981
Chemistry of energetic fragments: Hypovalent radicals
[AD-A143269] 22 p3547 N84-32453

AFTERIMAGES
Development of automatic measuring system for image pickup tubes
[NHK-LN-295] 15 p2335 N84-25014

AGC (CONTROL)
U AUTOMATIC GAIN CONTROL

AGE DETERMINATION
U CHRONOLOGY

AGE FACTOR
An age comparison of the vestibulo-ocular counterroll reflex
[AD-A132064] 03 p0415 N84-12716
Animal sensitivity to super-high frequency electromagnetic fields in correlation to age 07 p1043 N84-16766
Age, altitude, and workload effects on complex performance
[AD-A133594] 07 p1047 N84-16793
Age-related responses to de- and hyperhydration 21 p3452 N84-31905
Analysis of collagen and noncollagenous proteins in bone particles fractionated by gradient density fractionation 23 p3808 N84-34144

AGE HARDENING
U PRECIPITATION HARDENING

AGGLOMERATION
Agglomeration in suspension
[WTHD-160] 07 p0973 N84-16305
Combustion of agglomerates formed by carbon slurry fuels
[AD-A136390] 09 p1278 N84-18345
Simulations of galaxy mergers 11 p1757 N84-21470
Agglomeration and peciptation by sonic-inertial means: Abstract of the state of the art
[REPT-0563/84] 21 p3491 N84-32126

AGGREGATES
Study on strength, elastic modulus of artifical lightweight aggregate concrete
[PB83-224824] 01 p0059 N84-10389
The effect of surface charge on the rheology of concentrated aqueous quartz suspensions
[CSIR-CENG-423] 04 p0493 N84-13235
Geology of carbonate aggregate resources of Illinois, Illinois mineral notes
[PB83-251140] 04 p0565 N84-13725
Evaluation of Stokes settling equation for variable density aggregates
[AD-A140878] 17 p2721 N84-27322

AGING
Bifunctional oxygen electrodes
[DE84-002774] 07 p0972 N84-16296
Studies on age-hardening in spinodally modulated alloys: Experimental and theoretical
[DE84-004650] 09 p1285 N84-18390

AGING (BIOLOGY)
An age comparison of the vestibulo-ocular counterroll reflex
[AD-A132064] 03 p0415 N84-12716
Initial validation of a functional age profile for aviators
[AD-P003271] 18 p2907 N84-28436
Age effects on active duty Army MMPI (Minnesota Multiphasic Personality Inventory) profiles
[AD-P003343] 18 p2911 N84-28464
Geochemistry, age and strontium composition of late tertiary and quaternary basalts and andesites in western Nevada and their relation to geothermal potential
[DE84-012404] 21 p3444 N84-31852

AGING (MATERIALS)
NT AGING (METALLURGY)
Metallurgical characterization of Niobium/Tin superconducting multifilamentary wires
[AD-A131018] 01 p0044 N84-10281
A survey of the state-of-the-art in aging of electronics with application to nuclear-power-plant instrumentation
[DE83-012696] 01 p0073 N84-10478
Creep and thermal effects in aging solids
[DE83-012673] 01 p0098 N84-10635
The effect of aircraft age and flying hours on maintenance costs
[AD-A131534] 02 p0169 N84-11114
Temperature dependence of hydrolysis of polyimide wire insulation
[AD-A131334] 02 p0200 N84-11301
Aging of polymeric materials
[AD-A132250] 04 p0506 N84-13318
Mechanical properties of types 304 and 316 stainless steel after long-term aging and exposure
[DE84-003325] 07 p0976 N84-16327
Critical current of the dispersion superconducting phase, obtained during aging
[AD-A136024] 09 p1396 N84-19118
Developing of practical methods for the determination of the stagnation temperature and the durability of solar collectors
[BMFT-FB-T-83-227] 10 p1530 N84-20024
TEM studies on the deformation structure of Cu-10Ni-6Sn spinodal alloy
[DE84-004426] 11 p1635 N84-20690
Characterization of PMR polyimide resin and prepreg
[NASA-CR-168217] 11 p1636 N84-20695
Compatibility and accelerated aging study for Li(Si)/FeS/sub 2 thermally activated batteries
[DE84-006099] 12 p1813 N84-21818
Mechanical engineering research program
[DE84-001085] 12 p1823 N84-21884
Shelf life determination of an epoxy resin by accelerated aging
[DE84-006048] 14 p2121 N84-23709
Surveillance report. Stage I dissected motors. Phase XIV. Propellant and component testing
[AD-A139201] 14 p2132 N84-23777
Microstructures associated with wear 14 p2153 N84-23901
Space aging of solid rocket materials (P0005) 15 p2275 N84-24859
Aging control number 4 of gas generator grains for RB 05 and RB 24
[FOA-C-20528-D1(D3)] 15 p2303 N84-24820
LGM-30B, stage 2 dissected motor test report
[AD-A140337] 16 p2460 N84-25765
Artificial aging of transparent aerospace materials
[AD-P003210] 17 p2593 N84-26623
Auger characterization of new and aged dispenser cathode surfaces
[AD-A140754] 17 p2663 N84-26968
Optical studies of moon rock samples at various degrees of maturity 19 p2975 N84-28861
Microstructural evaluation of a ferritic stainless steel by small angle neutron scattering
[DE84-009487] 19 p2995 N84-28980
Improved high temperature resistant matrix resins
[NASA-CR-168210] 19 p2998 N84-28995
Stage I propellant surveillance report glacial acrylic acid motors GAA-001 and GAA-002 TP-H1011
[AD-A141099] 19 p3001 N84-29020
Method of minimizing the aging rate of an oscillator
[AD-D011049] 19 p3018 N84-29135
Physical aging and its influence on the reliability of network epoxies and epoxy-matrix composites
[NASA-CR-173870] 21 p3356 N84-31289
Viscoelastic and aging characteristics of polymers
[DE84-012689] 21 p3371 N84-31393
Effect of thermal aging on the output of a pyrotechnic actuator
[DE84-012903] 22 p3562 N84-32558
LEO atomic oxygen effects on spacecraft materials: STS-5 results
[NASA-TM-86463] 24 p3867 N84-34506

AGING (METALLURGY)
Effect of specimen size and nickel content on the impact properties of 12 Cr-1 MoVW ferritic steel
[DE84-003270] 08 p1134 N84-17377
Aging degradation of cast stainless steel: Status and program
[DE84-004018] 08 p1135 N84-17381
Over-aging of aluminum alloys
[DE84-004927] 08 p1135 N84-17382
Repeated load relaxations of type 316 austenitic stainless steel
[DE84-004875] 10 p1461 N84-19541
Edge crack growth of thermally aged graphite/polyimide composites
[NASA-TM-85763] 12 p1789 N84-21667
Study of the fatigue crack propagation characteristics of YB-3 and YB-4 aeronautical organic glass 20 p3160 N84-30069

AGRICULTURAL AIRCRAFT
International aviation (selected articles)
[AD-A140895] 17 p2601 N84-26671
A numerical simulation of the dispersal of aerial sprays
[NASA-CR-165816] 19 p3020 N84-29151

AGRICULTURE
Remote Sensing Applications for Environmental Studies — conferences
[ESA-SP-188] 03 p0395 N84-12579
SPOT potential applications: An overview of the results of the simulation campaigns 03 p0396 N84-12587
Development of a data base for carbon dioxide releases resulting from conversion of land to agricultural uses
[DE83-015728] 03 p0402 N84-12626
County-level wind resource estimates for DOE Region 5
[DE84-000009] 04 p0568 N84-13744
Remote sensing of the Earth and agriculture 05 p0634 N84-14167
Significant results from the HCMM program 05 p0696 N84-14568
Radar and infrared remote sensing of terrain, water resources, arctic sea ice, and agriculture 06 p0868 N84-15651
Remote sensing: New satellite systems and potential applications — conferences
[ESA-SP-205] 08 p1174 N84-17650
Remote sensing for agriculture and land use 08 p1177 N84-17666
Accomplishments of the NASA Johnson Space Center portion of the soil moisture project in fiscal year 1981
[E84-10090] 10 p1521 N84-19961
AgRISTARS: Agriculture and resources inventory surveys through aerospace remote sensing
[E84-10091] 10 p1522 N84-19962
Computer program for prediction of the deposition of material released from fixed and rotary wing aircraft
[NASA-CR-3780] 11 p1600 N84-20482
Discrete random media techniques for microwave modeling of vegetated terrain 12 p1832 N84-21939
Measuring and modeling of the dielectric properties and attenuation of vegetation 12 p1832 N84-21940
Remote sensing of Earth terrain 12 p1834 N84-21951
USSR Report: Life sciences, biomedical and behavioral sciences
[JPRS-UBB-84-003] 12 p1864 N84-22145
East Europe report: Scientific affairs
[JPRS-ESA-84-009] 14 p2136 N84-23802

A constrained-clustering approach to the analysis of remote sensing data
[AD-A139124] 14 p2169 N84-23993
Agricultural waste water reverse osmosis pretreatment
[PB84-153543] 17 p2725 N84-27347
USSR Report: Life sciences biomedical and behavioral sciences
[JPRS-UBB-84-013] 17 p2740 N84-27397
Organizing work with information flows in system for automated processing of data from remote sensing of the Earth for use in agriculture 19 p2977 N84-28873
Characterization of LANDSAT-4 TM and MSS image quality for interpretation of agricultural and forest resources 20 p3213 N84-30411
An initial analysis of LANDSAT-4 Thematic Mapper data for the discrimination of agricultural, forested wetland, and urban land covers 20 p3213 N84-30414
Comparison of the information content of data from the LANDSAT-4 Thematic Mapper and the Multispectral Scanner 20 p3215 N84-30420
Thematic Mapper data quality and performance assessment in renewable resources/agriculture remote sensing 20 p3215 N84-30422
Producer gas: Another fuel for motor transport
[DE84-901066] 21 p3375 N84-31416
USSR report: Life sciences. Biomedical and behavioral sciences
[JPRS-UBB-84-017] 21 p3455 N84-31924
Agriculture and water use: Present and future issues
[GPO-30-599] 22 p3614 N84-32897
Geomorphic approach to hydrograph synthesis, with potential for application to ungaged watersheds
[PB84-190115] 22 p3615 N84-32904
Agriculture weather services
[GPO-27-913] 22 p3624 N84-32966
Workshop on Systems Analysis
[PB84-194661] 22 p3650 N84-33138
An experimental and theoretical investigation of deposition patterns from an agricultural airplane
[NASA-TP-2348] 23 p3689 N84-33379
Development of ferrous metallurgy described 23 p3707 N84-33499
Changes in TM response of soil scenes due to tillage, residue, and weathering --- Landsat Thematic Mapper (TM) 23 p3766 N84-33874
USSR report: Life sciences. Biomedical and behavioral sciences
[JPRS-UBB-84-020] 23 p3805 N84-34128
Catalog of existing published periodicals of INPE, Volume 7
[INPE-2886-NTE/206] 23 p3834 N84-34320
Scientific research abstracts in Republic of China, 1983 24 p3955 N84-35038

AGRISTARS PROJECT
Update and review of accuracy assessment techniques for remotely sensed data
[E84-10029] 01 p0099 N84-10646
AgRISTARS documents tracking list report
[E84-10030] 01 p0100 N84-10647
Passive microwave sensing of soil moisture content: Soil bulk density and surface roughness
[E84-10019] 02 p0237 N84-11556
Land cover change monitoring within the east central Louisiana study site: A case for large area surveys with LANDSAT multispectral scanner data
[E84-10031] 02 p0238 N84-11562
Increase of cold tolerance in cotton plant (Gossypium hirsutum L.) by mepiquat chloride
[E84-10088] 10 p1521 N84-19959
Reflectance measurements of cotton leaf senescence altered by mepiquat chloride
[E84-10089] 10 p1521 N84-19960
Accomplishments of the NASA Johnson Space Center portion of the soil moisture project in fiscal year 1981
[E84-10090] 10 p1521 N84-19961
AgRISTARS: Agriculture and resources inventory surveys through aerospace remote sensing
[E84-10091] 10 p1522 N84-19962
Remote sensing of agricultural crops and soils
[E84-10107] 12 p1829 N84-21925
Evaluation of a native vegetation masking technique
[E84-10108] 12 p1829 N84-21926
Intercepted photosynthetically active radiation estimated by spectral reflectance --- Phoenix, Arizona
[E84-10109] 12 p1829 N84-21927
AgRISTARS stage 3: The Bristol interactive scheme (BIAS) for satellite-improved rainfall monitoring: Further developments, testing and method description
[PB84-150630] 12 p1837 N84-21976
CONSERVB: A numerical method to compute soil water content and temperature profiles under a bare surface
[E84-10113] 13 p2005 N84-23006
A microwave systems approach to measuring root zone soil moisture
[E84-10114] 13 p2005 N84-23007
A method to combine remotely sensed and in situ measurements: Program documentation
[E84-10172] 21 p3426 N84-31735

AGROCLIMATOLOGY
Argentina soybean yield model
[E84-10102] 12 p1828 N84-21920
Brazil wheat yield covariance model
[E84-10103] 12 p1829 N84-21921
Brazil soybean yield covariance model
[E84-10104] 12 p1829 N84-21922
Argentina corn yield model
[E84-10105] 12 p1829 N84-21923

AGROMETEOROLOGY
Guide to agricultural meteorological practices, second edition
[WMO-134] 03 p0412 N84-12697
Group Agromet Monitoring Project (GAMP), phase 1
[ESA-CR(P)-1769] 07 p1023 N84-16637
Argentina wheat yield model
[E84-10101] 12 p1828 N84-21919
Seasonal variation of spectral brightness coefficients for barley and rye 19 p2977 N84-28872

AH-1G HELICOPTER
Human factors issues associated with the use of speech technology in the cockpit
[NASA-CR-166548] 08 p1143 N84-17433

AILERONS
Flight service evaluation of advanced composite ailerons on the L-1011 transport aircraft
[NASA-CR-172246] 04 p0491 N84-13223
International aviation (selected articles)
[AD-A140895] 17 p2601 N84-26671
Development of an advanced composite aileron for the L-1011 transport aircraft
[NASA-CR-3517] 18 p2810 N84-27836
Acoustic tests of the MOD-O/5A wind turbine rotor with two different ailerons
[NASA-CR-172427] 21 p3491 N84-32120

AIR
NT COMPRESSED AIR
NT EXPIRED AIR
NT HIGH TEMPERATURE AIR
Dielectric breakdown of MXB-71 phenolic and Sylgard 184/GMB silicone at high temperature
[DE83-016768] 02 p0201 N84-11312
Growth of epitaxial ice crystals on covellite (CuS) under reduced air pressure 02 p0306 N84-12008
Hydrogen-air detonations
[DE83-009289] 03 p0350 N84-12278
Ion-ion recombination rate in the EMP source region
[AD-A131148] 03 p0360 N84-12339
Electrolytic gettering of tritius from air
[DE84-000174] 04 p0496 N84-13252
Air-breakdown limits for microwave-pulse propagation. Part 1. Experiments
[DE83-017832] 04 p0523 N84-13438
Development and demonstration of a spiral-wound thin-film composite membrane system for the economical production of oxygen-enriched air, phases 1, 2 and 3
[DE84-002918] 07 p0972 N84-16298
Mechanisms for SAR imaging of ocean surface phenomena: Theory and experiment 07 p0990 N84-16416
Forced convection heat transfer to air/water vapor mixtures
[NASA-CR-3769] 07 p1000 N84-16488
Integrated aircraft fuel tank inerting and compartment fire suppression system. Volume 2: Evaluation of nitrogen-enriched air as a fire suppressant
[AD-A134883] 08 p1101 N84-17157
Applications for anaerobic adhesives, with particular reference to the replacement of conventional locking devices 09 p1291 N84-18433
Sources and sinks for nitrous oxide and experimental studies of the source of atmospheric COS, CS-2 and CH-3-Cl
[NASA-CR-175404] 10 p1531 N84-20030
Millimeter wave attenuation in moist air: Laboratory measurements and analysis
[AD-A139502] 14 p2140 N84-23832
Automatically equalizing fluid manometer combined with a computer
[ESA-TT-811] 16 p2496 N84-26015
Theoretical study of the radiative and kinetic properties of selected metal oxides and air molecules
[AD-A141230] 18 p2811 N84-27847
Basic mathematical formulation of contaminant dispersions --- atmospheric pollution 18 p2878 N84-28274
Air as an adjustable insulator for C-V and G-V analysis of semiconductor surfaces
[AD-A141437] 19 p3013 N84-29099
Cerenkov radiation generated by periodic electron bunches in a finite air path
[AD-A142063] 19 p3101 N84-29700
Requirements for high-temperature air-cooled central receivers
[DE84-000081] 20 p3235 N84-30534
Analytical methods for determination of inorganic anions
[BLL-WH-592-(9091.9F)] 21 p3358 N84-31301
Stretch effects in plane premixed hydrogen-air flames
[DE84-012035] 21 p3360 N84-31311
Chemical kinetics in hydrogen-air flames
[DE84-011002] 21 p3361 N84-31323
Static thrust augmentation of rocket motors by air entrainment
[AD-A143179] 22 p3543 N84-32430
Conditional velocity statistics in premixed CH-4-air and C-2H-4-air turbulent flames
[DE84-012257] 22 p3549 N84-32464
Passive sampling device for ambient air and personal monitoring
[PB84-210046] 22 p3599 N84-32798
Research on oxidation by air and tempering of Raney nickel electrocatalysts for the H2 anodes of alkali combustion materials cells
[NASA-TM-77414] 23 p3713 N84-33535
A comparison of impedance measurement techniques in air
[AD-A143638] 23 p3821 N84-34232
A study of long aerosol initiated laser induced air breakdown plasmas
[AD-A143967] 23 p3828 N84-34279

AIR BAG RESTRAINT DEVICES
Development of 2 underseat energy absorbers for application to crashworthy passenger seats for general aviation aircraft
[NASA-CR-158927] 22 p3533 N84-32367

AIR BEARINGS
U GAS BEARINGS

AIR BLASTS
U AERIAL EXPLOSIONS

AIR BREATHING ENGINES
NT BRISTOL-SIDDELEY BS 53 ENGINE
NT GAS TURBINE ENGINES
NT JET ENGINES
NT RAMJET ENGINES
NT SUPERSONIC COMBUSTION RAMJET ENGINES
NT TF-41 ENGINE
NT TURBOFAN ENGINES
NT TURBOJET ENGINES
NT TURBOPROP ENGINES
Proposed fast-response oxygen monitoring and control system for the Langley 8-foot high-temperature tunnel
[NASA-TP-2218] 02 p0223 N84-11460
A study of air breathing rockets. 3: Supersonic mode combustors
[NAL-TR-756] 04 p0489 N84-13213
Operating system for a real-time multiprocessor propulsion system simulator
[NASA-TM-83605] 10 p1566 N84-20258
Wave engine technology development
[AD-A139175] 14 p2155 N84-23911
Modification of NASA Langley 8 foot high temperature tunnel to provide a unique national research facility for hypersonic air-breathing propulsion systems
[NASA-TM-85783] 16 p2454 N84-25733
FY 1985 technical objective document
[AD-A140581] 17 p2770 N84-27586
Propulsion options for orbit-on-demand 20 p3136 N84-29915

AIR CARGO
Improved air shipment of fruit reported this year 01 p0001 N84-10005
Successful Arctic testing of KA-32 helicopter 18 p2784 N84-27671
IL-76 used successfully for Arctic cargo air drops 18 p2784 N84-27673

AIR CONDITIONING
Frigair 1983. Papers
[CSIR-S-281] 11 p1639 N84-20717
Free cooling: A total HVAC design concept 11 p1640 N84-20723
Analysis of structural storage air conditioning systems 11 p1640 N84-20725
Late developments in the field of heat recovery 11 p1640 N84-20727
Heat recovery subsystem and overall system integration of fuel cell on-site integrated energy systems
[NASA-CR-168309] 11 p1673 N84-20915
Gas-fired heat pump research and development: Review and assessment
[PB84-153907] 14 p2135 N84-23796
Theoretical analysis of a kinematic Stirling-cycle heat pump for space conditioning applications
[DE84-010240] 15 p2344 N84-25072
Performance monitoring highlights of BERD programs 16 p2516 N84-26146

Integrated gas-fired space heating/water heating system with electric air conditioning
[PB84-181999] 20 p3171 N84-30138

Air modulation apparatus
[NASA-CASE-LEW-13524-1] 23 p3694 N84-33410

AIR CONDITIONING EQUIPMENT

Development of a high efficiency compressor/expander for an air cycle air conditioning system
[AD-A130976] 02 p0229 N84-11502

A rotary vane open reversed Brayton cycle air conditioning and refrigeration system
04 p0543 N84-13574

Aircraft and background noise annoyance effects
[NASA-TM-85744] 09 p1386 N84-19051

Design, selection and simulation of air conditioning systems by computer. Part 3: Program data preparation and reference manual
[CSIR-ME-1465-PT-3] 10 p1471 N84-19604

Energy and peak power saved by passively cooled residences 16 p2513 N84-26130

AIR COOLING

High-temperature-turbine-technology program. Phase 2: Technology test and support studies
[DE83-015200] 01 p0092 N84-10597

Effectiveness in reducing heat stress of three conditioned-air cooling vests worn with and without cooling air supplied to a face piece
[AD-A131975] 03 p0417 N84-12726

Characteristics of a four nozzle, slotted mixing stack with slanted shroud, gas eductor system
[AD-A134794] 08 p1159 N84-17547

Review and status of heat-transfer technology for internal passages of air-cooled turbine blades
[NASA-TP-2232] 12 p1814 N84-21828

Multi-small hole drilling by EDM — electrodischarge machining (EDM)
[PNR-90184] 13 p1975 N84-22813

Increase of efficiency in cooled high temperature turbines
[BMFT-FB-W-84-019] 21 p3343 N84-31212

AIR CURRENTS

NT JET STREAMS (METEOROLOGY)
NT MERIDIONAL FLOW
NT VERTICAL AIR CURRENTS

Experimental water tunnel with density stratification for the simulation of small-scale atmospheric flows
[BLL-RISLEY-TR-4871-(9091.9F)]
08 p1106 N84-17188

Untapped midwestern wind energy resource: Nocturnal low-level wind maxima
[DE84-006424] 13 p2017 N84-23077

An explanation of the revised DVORAK technique for estimating tropical cyclone intensity using satellite cloud imagery and some results of its application to two 1982 storms 24 p3921 N84-34820

AIR CUSHION VEHICLES

U GROUND EFFECT MACHINES

AIR DEFENSE

An investigation of geometric radar shapes for stereotyping
[AD-A131120] 03 p0459 N84-13020

Tactical requirements impact on avionics/weapon system design 06 p0768 N84-15036

Improved dynamic models for air combat analysis
[TAE-483] 08 p0905 N84-15876

Description and analysis of PACAM 5 (Piloted Air Combat Analysis Model) as a tactical decision aid with a user's guide for operation at NPS
[AD-A136793] 10 p1574 N84-20313

Workload of personnel engaged in air defence
11 p1699 N84-21079

An expected value air combat model simulation algorithm to predict missions performance in tactical air operations
[AD-A137651] 11 p1718 N84-21207

Jam-resistant tactical communications
13 p1976 N84-22828

A comparison of two air defense command and control models
[AD-P002876] 13 p1977 N84-22837

DARPA (Defense Advanced Research Projects Agency) air vehicles technology office technical task order contract
[AD-A138887] 14 p2105 N84-23625

Multisensor calibration procedure for an all weather short range air defense system concept
[AD-A141337] 18 p2791 N84-27715

A computer simulation to predict target identification latencies
[AD-P003272] 18 p2907 N84-28437

The Enforcer aircraft program: A lower-cost alternative weapon system
[AD-A141564] 19 p2955 N84-28728

White paper: An overview of how the IFFN (Identification Friend, Foe, or Neutral) evaluation testbed system will be used
[AD-A141453] 19 p3004 N84-29042

Simulated 3-dimensional computer graphics training display for air weapons controllers. Volume 2: Users guide
[AD-A141336] 19 p3075 N84-29510

Simulated 3-dimensional computer graphics training display for air weapons controllers, volume 1
[AD-A141347] 19 p3075 N84-29511

Concepts for LHX avionics
[AD-P003575] 21 p3338 N84-31180

Advanced technology for SAM systems analysis, synthesis and simulation 21 p3350 N84-31249

Missile system for low altitude air defence
21 p3351 N84-31255

Naval applications for Remotely Piloted Vehicles (RPV's)
[AD-A143826] 23 p3693 N84-33405

AIR DROP OPERATIONS

USSR report: Transportation
[JPRS-UTR-84-005] 18 p2784 N84-27668

IL-76 used successfully for Arctic cargo air drops
18 p2784 N84-27673

AIR DUCTS

Dynamic characteristics of a jet engine test facility air supply
[AD-A136910] 10 p1433 N84-19365

AIR FILTERS

Component development
[DE84-005829] 11 p1634 N84-20681

High-efficiency particulate air filter behavior at high-speed flows
[DE84-014137] 22 p3595 N84-32769

Control of respirable particles and radon progeny with portable air cleaners
[DE84-013878] 23 p3812 N84-34170

AIR FLOW

NT AIR CURRENTS
NT JET STREAMS (METEOROLOGY)
NT MERIDIONAL FLOW
NT VERTICAL AIR CURRENTS

Contrast between natural and experimentally controlled fires in forced ventilated enclosures
[DE83-013038] 01 p0057 N84-10373

Measurement of two-phase flow velocity using a laser Doppler anemometer
[DE83-013522] 01 p0082 N84-10531

Comparison of calculated results from 2 analytical models with measured data from a heat-exchanger flow test
[DE83-013071] 01 p0082 N84-10534

The performance of small jet noise silencers for industrial applications
[PB83-234047] 02 p0230 N84-11507

Evaluation of a total energy-rate sensor on a transport airplane
[NASA-TP-2212] 03 p0332 N84-12164

An experimental investigation into the forebody and engine inlet airflow characteristics of a photographic reconnaissance window pallet on the RF/A-18 aircraft
[AD-A132271] 04 p0481 N84-13167

Recent Japanese progress in fire modeling
04 p0511 N84-13353

On smoke control experiments
04 p0514 N84-13379

Experimental study of three-dimensional natural convection at high Rayleigh number
[DE83-011962] 04 p0537 N84-13530

Study of the contained air flow in a radial tire: Experimental
[DE84-000840] 04 p0545 N84-13591

Multicomponent velocity measurement in a pison-cylinder configuration using laser velocimetry
[NASA-TM-83534] 05 p0627 N84-14121

Simulation and interpretation of polarization diversity radar spectral functions
[AD-A132622] 05 p0670 N84-14402

On the application of holographic interferometry to axisymmetric air flows 05 p0678 N84-14458

A study of helicopter rotor aerodynamics in ground-effect at low speeds 06 p0779 N84-15106

Evaluation of air-cooled central receivers
[DE83-005130] 06 p0833 N84-15423

Extinguisher agent behavior in a ventilated small aircraft
[FAA-CT-83-30] 07 p0949 N84-16158

Structural analysis of air outflow from low layers of intense thundercloud
[AD-A136500] 09 p1348 N84-18810

A study of annular diffuser flow using a photon-correlating laser Doppler anemometer
[AD-A137019] 10 p1493 N84-19762

Interaction of two-dimensional transverse jet with a supersonic mainstream
[NASA-CR-175446] 11 p1602 N84-20492

Crossed hot-wire data acquisition and reduction system
[NASA-TM-85871] 11 p1656 N84-20807

Calibration of engines laboratory air flow measuring devices
[AD-A137909] 11 p1680 N84-20831

Review and status of heat-transfer technology for internal passages of air-cooled turbine blades
[NASA-TP-2232] 12 p1814 N84-21828

Energetics of vortex ring formation
[AD-A138795] 13 p1927 N84-22539

Contingency power concepts for helicopter turboshaft engine
[NASA-TM-83679] 14 p2109 N84-23648

The effect of strakes on vortical flows applied to aircraft
[AD-A139989] 15 p2257 N84-24560

A review of internal combustion engine combustion chamber process studies at NASA Lewis Research Center
[NASA-TM-83666] 15 p2331 N84-24999

Aero/thermodynamic and acoustic considerations in the design of test-beds for turbojets and turbofans
16 p2452 N84-25725

A probe for direct measurements of flow direction
[DFVLR-FB-83-27] 16 p2486 N84-25948

Computer program for studying turbulent convection in buildings 16 p2517 N84-26155

Turbulent structure of stably stratified nocturnal slope flows
[AD-A140740] 17 p2734 N84-27378

Calculation of natural ventilation and comfort
[DE84-009215] 19 p3071 N84-29485

Theoretical and measured airflow about the Twin Otter wing
[AD-A141974] 20 p3126 N84-29855

Fire induced flows through room openings - flow coefficients
[PB84-176759] 20 p3151 N84-30011

Atomization of liquid sheets in high pressure airflow
[NASA-TM-83731] 20 p3183 N84-30223

Effect of radial load distribution on the first-harmonic inflow velocity of a helicopter rotor at transition speeds
[AD-A142840] 21 p3325 N84-31100

Axisymmetric thrust augmenting ejector with discrete primary air slot nozzles
[AD-D011129] 22 p3536 N84-32366

JT15D simulated flight data evaluation
[NASA-CR-172322] 22 p3536 N84-32367

Pin rooted blade biaxial air seal
[AD-D011088] 22 p3537 N84-32391

AIR FREIGHT

U AIR CARGO

AIR INLETS

U AIR INTAKES

AIR INTAKES

NT ENGINE INLETS
NT INLET AIRFRAME CONFIGURATIONS
NT SUPERSONIC INLETS

Swirl at gas-intake inlet
[AD-A139472] 14 p2146 N84-23861

An investigation into anti-swirl devices for s-shaped air intakes
[BU-293] 15 p2256 N84-24549

Ground based testing without wind tunnels
16 p2437 N84-25634

AIR JETS

Numerical simulations of fuel droplet flows using a Lagrangian triangular mesh
[NASA-CR-168263] 03 p0370 N84-12411

Air-jet milling of grinding materials
[NASA-TM-77366] 09 p1291 N84-18430

Characteristics of inhomogeneous jets in confined swirling air flows 11 p1612 N84-20550

New TPS calibration bench, and ejector tests — wind tunnel turbines and powered models
14 p2099 N84-23594

The impingement of an underexpanded air jet on square section beams
[BU-291] 15 p2256 N84-24548

AIR LAND INTERACTIONS

Numerical modeling techniques for half-space (ground) problems 03 p0365 N84-12374

A system for measuring fluxes of trace gases to and from soil and vegetation with a chamber technique
[CM-61] 07 p1028 N84-16662

Investigation of the equatorial orographic-dynamic mechanism applying the bounded derivative method
12 p1854 N84-22078

Influence of surface roughness of a desert
12 p1859 N84-22109

Land-surface influences on weather and climate
[NASA-CR-173595] 16 p2529 N84-26234

Interaction of the ABL with stratocumulus and cumulus cloud layers, appendix N 18 p2885 N84-28309
The demand side flux determination, appendix P 18 p2886 N84-28311
Participation in the Mars data analysis program: Global and regional studies of wind-indicators on the surface of Mars
[NASA-CR-173982] 24 p3992 N84-35261

AIR LAUNCHING
A balloon design for 9000 pounds at 90,000 feet: Recommendations based on heavy-load balloon history
[AD-A131987] 03 p0320 N84-12093
Development and fabrication of a graphite/epoxy motor case for air launch missile applications 20 p3142 N84-29948

AIR LAW
Aircraft noise legislation: An overkill
[PNR-90167] 13 p2010 N84-23037
Legal expert expounds on new civil air code 14 p2093 N84-23553

AIR MASSES
Diagnosis of the comma cloud of 10 April 1979, abridged report
[AD-A130649] 01 p0108 N84-10701
Transport and fate of acid rains out of North America
[DE83-015819] 02 p0244 N84-11597
Optical extinction coefficients beneath marine stratus clouds. Comparison of coefficients calculated from observed aerosol spectra with coefficients specified by the Navy aerosol model
[AD-A132011] 03 p0410 N84-12685
Air mass computer program for atmospheric transmittance/radiance calculation: FSCATM
[AD-A132108] 04 p0563 N84-13712

AIR NAVIGATION
NT ALL-WEATHER AIR NAVIGATION
NT AREA NAVIGATION
NT NAP-OF-THE-EARTH NAVIGATION
Investigation of air transportation technology at Ohio University, 1982 02 p0167 N84-11100
Aircraft navigation technology and errors
[GPO-26-859] 04 p0482 N84-13170
Magnetic heading reference
[NASA-CASE-LAR-12636-1] 05 p0629 N84-14132
Methods for developing the navigation and weapon systems of the Mirage 2000 06 p0774 N84-15068
Satellite-directed navigational guidance for aircraft
[H-REPT-98-510] 08 p1102 N84-17164
Status, future plans for Aeroflot's meteorological support 18 p2790 N84-27711

AIR PIRACY
Semiannual report to Congress on the effectiveness of the civil aviation security program
[AD-A134660] 08 p1100 N84-17156

AIR POLLUTION
NT GLOBAL AIR POLLUTION
NT INDOOR AIR POLLUTION
Acidic deposition and the corrosion and deterioration of materials in the atmosphere: A bibliography, 1880 - 1982
[PB83-236091] 01 p0047 N84-10302
Research program for effects of acidic deposition on materials and cultural resources
[PB83-232074] 01 p0051 N84-10331
Laser remote sensing of atmospheric pollutants
[AD-A130259] 01 p0103 N84-10670
Atlas of source emission particles
[PB83-229013] 01 p0103 N84-10672
The design and operation of systems for inhalation exposure of animals
[DE83-015388] 01 p0112 N84-10727
Recent advances in EPA's (Environmental Prog monitoring and methods development research
[PB83-231209] 01 p0115 N84-10743
Probabilistic model for assessing time-varying contaminant levels
[PB83-232108] 01 p0115 N84-10745
A study of air-pollution mixing heights and atmospheric turbulence over New York City, data report
[DE83-010624] 02 p0244 N84-11596
The geographic and statistical analysis of air quality data in the United States
[DE83-016471] 02 p0244 N84-11598
The development and implementation of techniques to determine the concentrations of environmental pollutants arising from energy production
[DE83-015386] 02 p0244 N84-11599
The application of multivariate source/receptor models to aerosol mass apportionment
[DE83-014592] 02 p0245 N84-11603
Bioassay of particulate organic matter from ambient air
[PB83-239731] 02 p0267 N84-11754
Results and interpretation of labor-hygienic studies in the paintshop of the jet engine depot of the Woensdrecht airbase
[PML-1982-54] 02 p0269 N84-11759
Soot formation from polycyclic aromatics
[DE83-009750] 03 p0349 N84-12271
Detecting long-term ecological effects in forests and food chains
[DE83-003469] 03 p0406 N84-12655
Oxygen-18 measurements in the assessment of natural and anthropogenic sulfur in the environment
[DE84-000566] 04 p0560 N84-13690
The effects of relaxing automobile emission standards: A generic analysis and an urban case study
[DE84-000193] 04 p0560 N84-13693
SRL tethersonde and echosonde data, Anderson Creek Valley, California
[DE84-001680] 04 p0564 N84-13715
Air monitoring techniques for space shuttle launches Vandenberg Air Force Base
[AD-A132956] 05 p0700 N84-14593
USAF Space Shuttle dispersion modelling
[AD-A132957] 05 p0700 N84-14594
Raman study of graphitic-carbon concentrations in the Western Arctic
[DE84-001090] 05 p0700 N84-14596
Radioactivity levels in humid and dry fallout gathered in the last 20 years in some points of the Padana Valley (Italy)
[CISE-2069] 05 p0701 N84-14598
Air pollution, environmental policy, and economics in the Federal Republic of Germany
[GHK-07] 05 p0701 N84-14601
Atmospheric emergencies: Existing capabilities and future needs
[PB83-250779] 05 p0701 N84-14602
The effects of long-range transport of air pollutants on artic cloud-active aerosol 05 p0702 N84-14604
Exposure chamber for studies of pollutant gases and aerosols in human subjects: Design considerations
[DE84-001135] 06 p0890 N84-15785
Some statistical distributions of air particle trajectories near the ground in Finland
[ILMATIEDE-106] 07 p1035 N84-16716
Evaluation of wind field interpolation schemes used in studies of regional-scale pollutant transport
[DE84-003634] 08 p1182 N84-17699
Dispersion experiments with sulfur hexafluoride from the 213m high meteorological mast at Cabauw in the Netherlands 08 p1183 N84-17706
Environmental Radiation Data Report 33, January - March 1983
[PB84-104785] 08 p1183 N84-17708
Air pollution effects on terrestrial ecosystems
[PB84-128313] 08 p1184 N84-17712
Human exposure to atmospheric concentrations to selected chemicals, volume 1
[PB84-102540] 08 p1202 N84-17835
Acidic deposition effects on vegetation: A review and analysis of methodology
[DE84-004014] 09 p1343 N84-18769
An estimation method of vertical diffusion parameters in the mesoscale range
[AD-A136496] 09 p1345 N84-18787
Aircraft generation equipment emissions estimator (AGEEE)
[AD-A136829] 10 p1532 N84-20031
An analysis of concepts for controlling atmospheric carbon dioxide
[DE84-004203] 10 p1532 N84-20033
Regional acid deposition: Models and physical processes
[PB84-115997] 10 p1532 N84-20035
Regional acid deposition: Design and management plan for a comprehensive modeling system
[PB84-116003] 10 p1532 N84-20037
Acid precipitation in southeastern Wyoming
[PB84-132521] 10 p1533 N84-20039
Short-term human respiratory effects of nitrogen dioxide: Determination of quantitative dose-response profiles. Phase 1: Exposure of healthy volunteers to 4 PPM NO/sub 2
[PB84-132299] 10 p1548 N84-20148
Corrosion in large aircraft: Management of the problem 11 p1631 N84-20666
FORAST: A regional scale study of forest responses to air pollutants
[DE84-003269] 11 p1675 N84-20933
Preliminary report on the global transport model GRANTOUR
[DE84-005596] 11 p1676 N84-20936
Atmospheric aerosol research for FY 82
[DE84-004308] 11 p1676 N84-20937
Progress in the prevention and control of air pollution in 1980 and 1981
[PB84-126788] 11 p1676 N84-20939
A method to estimate the vertical dispersion parameter in a 10 Km range
[AD-A137192] 11 p1683 N84-20982
A numerical analysis of the effect of inhomogeneity and wind speed shear on the vertical dispersion in the mesoscale range
[AD-A137188] 11 p1688 N84-21006
HC quench layer formation in combustion processes
[DE84-005068] 12 p1823 N84-21883
Rainfall chemistry and potential beneficial-detrimental impact to indigenous vegetation
[AD-A138471] 12 p1845 N84-22027
TRAN-STAT statistics for environmental studies. Statistical distributions for contaminant studies, and the estimation of average concentrations
[DE84-006579] 12 p1845 N84-22029
Characterization of acid rain for source identification. Task 1: Sulfur isotope rationing
[DE84-006510] 12 p1845 N84-22030
Proceedings of the National Symposium on Recent Advances in Pollutant Monitoring of Ambient Air and Stationary Sources
[PB84-148345] 12 p1845 N84-22031
Effects of mesoscale weather distrubances on contamination concentrations
[DE84-005753] 13 p2010 N84-23036
Kinetic studies of atmospheric reactions of OH radicals 13 p2012 N84-23050
Prediction of atmospheric flow and dispersion over sloping terrain 13 p2012 N84-23056
The vertical redistribution of a pollutant tracer due to cumulus convection 13 p2013 N84-23057
Impact assessment of reducing gasoline volatility
[PB84-152024] 14 p2133 N84-23781
East Europe report: Scientific affairs
[JPRS-ESA-84-009] 14 p2136 N84-23802
Coherent laser radar remote sensing
[AD-A139448] 14 p2151 N84-23885
Technology transfer of the air quality assessment model
[AD-A139582] 14 p2173 N84-24018
Assessment of ozone as a surrogate for other products of atmospheric photochemical reactions
[PB84-155852] 14 p2177 N84-24042
Indicators of hazard for polycyclic organic matter
[PB84-167493] 15 p2288 N84-24730
Formation and destruction of organic pollutants in thermal systems and flames 15 p2291 N84-24752
Protocol for the collection and analysis of volatile POHCs (Principal Organic Hazardous Constituents) using VOST (Volatile Organic Sampling Train)
[PB84-170042] 15 p2338 N84-25035
Measurement of small amounts of xenon-133 in air: Report on a series of measures and tests in Stockholm and in Ljungbyhed
[FOA-C-20515-A1] 15 p2366 N84-25197
Acidification of rain by the oxidation of dissolved SO2 and the absorption of HNO3
[PB84-168368] 15 p2367 N84-25200
Internal gravitation waves in a stably stratified atmosphere
[KBMI-WR-84-1] 15 p2368 N84-25206
A review of the basic concepts of dense gas dispersion with special regard to modelling of heat transfer
[QUEL-1512/84] 16 p2487 N84-25952
Survey of environmental regulations applying to geothermal exploration, development and use
[PB84-173665] 16 p2519 N84-26174
Acid deposition: Atmospheric processes in eastern North America, a review of current scientific understanding
[PB84-173095] 16 p2526 N84-26220
The carbon dioxide research plan, a summary
[DOE/ER-0178] 16 p2528 N84-26228
Atmospheric volatile hydrocarbon composition at five remote sites in Northwestern North Carolina
[PB84-177930] 17 p2620 N84-26768
Present-day status of investigations of anthropogenic influence on atmospheric ozone 17 p2697 N84-27180
Stratospheric concentration of nitric acid, ozone and sulphurous carbonyl: Measurement of nitric acid absorption in the Q branch of the v4 band as a function of temperature
[AD-B071596] 17 p2724 N84-27336
Causes and effects of changes in stratospheric ozone: Update 1983
[PB84-176072] 17 p2729 N84-27368
Survey of urban meteorological data
[AD-A140890] 17 p2734 N84-27380
Basic mathematical formulation of the contaminant dispersion processes 18 p2877 N84-28268
Analysis of metals in atmospheric particules for spectrophotometry of atomic absorption 18 p2877 N84-28269

Plasma discharge chemistry
[AD-A141033] 18 p2932 N84-28596
Lead 19 p2992 N84-28959
Development of air sulfur concentration in Finland through the year 2000
[ISBN-951-697-178-4] 19 p3052 N84-29366
A real-time air dispersion modeling system
[AD-A141405] 19 p3052 N84-29368
Fluorspar 19 p3053 N84-29375
Programming for energy monitoring/display system in multicolor lidar system research
[NASA-CR-165875] 19 p3073 N84-29498
Analysis of particulates in the exhaust plume of a TF30 engine at military power
[AD-A142510] 20 p3131 N84-29882
Evaluation of sampling methods for gaseous atmospheric samples
[PB84-190735] 20 p3151 N84-30012
Scientific analysis of existing data on aerosol dispersion and transport in a mountain valley
[AD-A142013] 20 p3238 N84-30555
Anti-tampering and anti-misfueling programs to reduce in-use emissions from motor vehicles
[PB84-185222] 20 p3238 N84-30559
Sampling report for the study of personal CO (carbon monoxide) exposure
[PB84-181957] 20 p3239 N84-30560
Air pollution effects on aquatic ecosystems: Summary of a symposium
[PB84-185214] 20 p3239 N84-30562
Development of a global model for atmospheric backscatter at CO2 wavelengths
[NASA-CR-171130] 21 p3382 N84-31459
Mathematical model of electrostatic precipitation (revision 3). Volume 1: Modeling and programming
[PB84-212679] 22 p3549 N84-32469
Field surveys of carbon monoxide in commercial settings using personal exposure monitors
[PB84-211291] 22 p3599 N84-32797
Locating and estimating air emissions from sources of acrylonitrile
[PB84-200609] 22 p3619 N84-32934
Locating and estimating air emissions from sources of chloroform
[PB84-200617] 22 p3619 N84-32935
Locating and estimating air emissions from sources of carbon tetrachloride
[PB84-200625] 22 p3620 N84-32936
Hydrogen chloride measurements with a Differential Absorption and Scattering (DAS) lidar in the marine atmosphere 23 p3779 N84-33965
Quantitative determination of aerosol concentrations by lidar with respect to various relative humidities 23 p3780 N84-33968
Quantitative determination of gaseous air pollutants by semiconducting sensors
[BMFT-FB-T-84-113] 23 p3793 N84-34058
Fabrication of glass gas cells for the HALOE and MAPS satellite experiments
[NASA-TM-86302] 24 p3866 N84-34501
The high altitude pollution program (1976 - 1982)
[AD-A144390] 24 p3917 N84-34800

AIR PURIFICATION
Hygienic microbiological/virological examination of an airwasher concerning the emission of airborne microorganisms
[BMFT-FB-T-83-130] 02 p0265 N84-11742
Advanced air revitalization system testing
[NASA-CR-166540] 08 p1205 N84-17855
Problems encountered in connection with the removal of small concentrations of noxious gases by the use of liquid absorbents
[BLL-OA-TRANS-3182-(6196.3)] 09 p1277 N84-18337
Chemiluminescent/laser diode measurement technique intercomparison and captive air measurement program
[PB84-134485] 11 p1661 N84-20839

AIR QUALITY
Atmospheric Sciences Division
[DE83-014429] 01 p0098 N84-10639
MSFC exhaust effluent diffusion predictions and measurements for STS-1, STS-2, STS-3, and STS-4
[NASA-TM-82551] 02 p0243 N84-11593
The geographic and statistical analysis of air quality data in the United States
[DE83-016471] 02 p0244 N84-11598
The effects of relaxing automobile emission standards: A generic analysis and an urban case study
[DE84-000193] 04 p0560 N84-13693
Proceedings of the 3rd Tripartite Conference on Submarine Medicine: France, United Kingdom and the United States
[AD-A133150] 06 p0889 N84-15777
Review of the National Ambient Air Quality Standards for sulfur oxides: Assessment of scientific and technical information
[PB84-102920] 08 p1184 N84-17711
Preparing meteorological data for use in routine dispersion calculations: Workgroup summary
[PB84-119890] 08 p1193 N84-17774
Airborne measurements of launch vehicle effluent of STS-2 launch on November 12, 1981 at Cape Canaveral, Florida
[NASA-TP-2260] 09 p1342 N84-18764
Evaluation of performance measures for an urban photochemical model
[PB84-115062] 09 p1343 N84-18771
Regional acid deposition: Models and physical processes
[PB84-115997] 10 p1532 N84-20035
Relationship between global fossil-fuel consumption and the concentration of carbon dioxide in the atmosphere, part 1
[PB84-123413] 10 p1532 N84-20036
Chemiluminescent/laser diode measurement technique intercomparison and captive air measurement program
[PB84-134485] 11 p1661 N84-20839
Progress in the prevention and control of air pollution in 1980 and 1981
[PB84-126788] 11 p1676 N84-20939
North American climatic data catalog, part 1
[PB84-150366] 12 p1863 N84-22136
Technology transfer of the air quality assessment model
[AD-A139582] 14 p2173 N84-24018
Geophysical Fluid Dynamics Laboratory activities, FY83, plans FY84
[PB84-148790] 15 p2374 N84-25245
Air quality report, 1982
[PB84-166750] 17 p2725 N84-27346
Problem definition study on emission by-product hazards from diesel engines for confined space Army workplaces
[AD-A141377] 19 p3052 N84-29367
Evaluation of sampling methods for gaseous atmospheric samples
[PB84-190735] 20 p3151 N84-30012
Cabin air quality
[GPO-29-522] 20 p3263 N84-30702
Urban and local source effects on precipitation chemistry
[DE84-011848] 21 p3436 N84-31803
National environmental monitoring
[GPO-26-186] 22 p3619 N84-32933
Urban scale variations of turbulence parameters and fluxes
[PB84-209113] 22 p3626 N84-32980

AIR SAMPLING
Optimization of GC/MS based Tenax collection method for toxic organics
[PB83-229476] 02 p0222 N84-11455
Air monitoring techniques for space shuttle launches Vandenberg Air Force Base
[AD-A132956] 05 p0700 N84-14593
Arctic haze: Natural or pollution?
[AD-A134263] 07 p1039 N84-16737
Chemical reactions and molecular aggregation in cryogenic whole air sample matrices
[AD-A137879] 11 p1682 N84-20977
Dual adsorber-capillary column system for gas chromatographic analysis of air samples
[AD-A138305] 12 p1792 N84-21689
Characterization of acid rain for source identification. Task 1: Sulfur isotope rationing
[DE84-006510] 12 p1845 N84-22030
Simultaneous cabin and ambient ozone measurements on two Boeing 747 airplanes. Volume 2: January to October 1978
[NASA-TM-81733] 12 p1917 N84-22488
Observations of major stratospheric chlorine species
[AD-A138646] 13 p2011 N84-23045
Protocol for the collection and analysis of volatile POHCs (Principal Organic Hazardous Constituents) using VOST (Volatile Organic Sampling Train)
[PB84-170042] 15 p2338 N84-25035
Atmospheric volatile hydrocarbon composition at five remote sites in Northwestern North Carolina
[PB84-177930] 17 p2620 N84-26768
Analysis of metals in atmospheric particules for spectrophotometry of atomic absorption 18 p2877 N84-28269
Evaluation of sampling methods for gaseous atmospheric samples
[PB84-190735] 20 p3151 N84-30012
Composition alteration of stratospheric air due to sampling through a flow tube: Environmental research papers
[AD-A143319] 22 p3623 N84-32959
Portable, sequential air sampler
[AD-D011168] 23 p3793 N84-34057

AIR SEA ICE INTERACTIONS
MIZEX: A program for mesoscale air-ice-ocean interaction experiments in Arctic marginal ice zones. 2: A science plan for a summer marginal ice zone experiment in the Fram Strait/Greenland sea: 1984
[AD-A134872] 08 p1187 N84-17737
Wind, waves and swell in the Antarctic marginal ice zone by SEASAT radar altimetar 14 p2161 N84-23941
Radar altimetry over sea ice 17 p2719 N84-27309
Method to estimate drag coefficient at the air/ice interface over drifting open pack ice from remotely sensed data 17 p2720 N84-27310
Bering Air-Sea-Ice Study (BASICS), February and March, 1981
[PB84-196161] 22 p3615 N84-32903

AIR SEA INTERACTIONS
U AIR WATER INTERACTIONS

AIR SICKNESS
U MOTION SICKNESS

AIR TO AIR MISSILES
NT SPARROW 3 MISSILE
Bank-to-turn control
[AD-A132491] 04 p0489 N84-13214
Optical data processing for missile guidance
[AD-A136216] 09 p1254 N84-18188
Description and analysis of PACAM 5 (Piloted Air Combat Analysis Model) as a tactical decision aid with a user's guide for operation at NPS
[AD-A136793] 10 p1574 N84-20313
Effect of data latency upon missile accuracy
[AD-A138048] 12 p1778 N84-21600
Weapons file
[AD-A142508] 20 p3128 N84-29867

AIR TO AIR REFUELING
A study of the aerodynamic interference effects during aerial refueling
[AD-A136895] 10 p1420 N84-19290
Microprocessors in aircrew training devices
[AD-P003485] 21 p3513 N84-32252
The handling and performance trials needed to clear an aircraft to act as a receiver during air-to-air refuelling 24 p3848 N84-34405

AIR TO AIR ROCKETS
U AIR TO AIR MISSILES

AIR TO SURFACE MISSILES
Hypervelocity missile: Based on the concept of aircraft/missile integration for maximum firepower 03 p0315 N84-12058
F-16 Penguin anti-ship missile integration 03 p0315 N84-12059
Unconventional missile concepts from consideration of varied mission requirements
[NASA-TM-85829] 18 p2785 N84-27879
Application of 1553B to MRASM (Medium Range Air to Surface Missile): A systems look
[AD-P003540] 21 p3332 N84-31144
MIL-STD-1553B in MRASM (Medium Range Air to Surface Missile): The designer's challenge
[AD-P003541] 21 p3333 N84-31145
Pivotal mono wing cruise missile with wing deployment and fastener mechanism
[AD-D011192] 24 p3853 N84-34436

AIR TRAFFIC
Influence of physical and air traffic conditions on aircraft noise emission to the ground
[MPIS-11/1982] 02 p0177 N84-11159
Contributions of flight mechanics to civil air traffic 07 p0944 N84-16124
The air traffic planning coordinator of the Federal Republic of Germany
[FACHTHEMEN-5] 07 p0945 N84-16130
FAA (Federal Aviation Administration) statistical handbook of aviation: Calender year 1982
[PB84-127323] 08 p1096 N84-17124
Aircraft over Steinberg (West Germany)
[REPT-5/1982] 10 p1424 N84-19316
System safety study of minimum TCAS II (Traffic Alert and Collision Avoidance System)
[AD-A138674] 13 p1929 N84-22548
FAA (Federal Aviation Administration) aviation forecasts -Fiscal Years 1984-1995
[AD-A138759] 13 p1929 N84-22549
Airfield delay simulation model (ADSIM) users guide
[PB84-171552] 17 p2611 N84-26715
USSR report: Transportation
[JPRS-UTR-84-005] 18 p2784 N84-27668
Hungarian officials comment on performance of Soviet-built aircraft 18 p2784 N84-27670
Aircraft traffic density in the Los Angeles basin
[AD-A141435] 19 p2961 N84-28768
The changing airline industry: A status report through 1982
[GAO/RCED-83-179] 20 p3127 N84-29858
National Airspace Review: Implementation plan
[AD-A145379] 21 p3327 N84-31107

AIR TRAFFIC CONTROL
NT AUTOMATED EN ROUTE ATC
Start automated traffic control system operational at Krasnodar 01 p0001 N84-10004
Time controlled descent guidance algorithm for simulation of advanced ATC systems
[NASA-TM-84373] 01 p0007 N84-10043
Marine Air Traffic Control And Landing System (MATCALS) investigation
[AD-A130309] 01 p0007 N84-10045
The FAA (Federal Aviation Administration) air traffic activity, fiscal year 1982
[PB83-226460] 01 p0008 N84-10048
Standard Engineering Installation Package. Ground control approach radar systems and radome(S)
[AD-A130726] 01 p0066 N84-10430
Investigation of air transportation technology at MIT 02 p0168 N84-11104
Development of real-time ATC simulation facility 02 p0168 N84-11106
Performance of the collision avoidance logic during preliminary flight tests of the traffic alert and collision avoidance system (TCAS 3)
[MTR-82W238] 02 p0176 N84-11158
Study to determine the IFR operational profile and problems to the general aviation pilot 03 p0311 N84-12032
A flight investigation of simulated data link communications during single-pilot IFR flight 03 p0313 N84-12046
Airport and air traffic control system
[OTA-STI-175] 03 p0329 N84-12143
Airport and air traffic control system. Executive summary 03 p0329 N84-12144
Airport and air traffic control system. Introduction and overview 03 p0329 N84-12145
The National Airspace System 03 p0329 N84-12146
Aviation growth scenarios 03 p0329 N84-12147
Technology and the future evolution of the ATC system 03 p0329 N84-12148
Airport capacity alternatives 03 p0329 N84-12149
Policy implications 03 p0329 N84-12150
Traffic alert and collision avoidance system (TCAS): A functional overview of active TCAS I
[AD-A132281] 04 p0482 N84-13171
Establishment and discontinuance criteria for airport traffic control towers
[AD-A133461] 06 p0785 N84-15141
Video processor for air traffic control beacon system
[NASA-CASE-KSC-11155-1] 06 p0829 N84-15395
Improving the air traffic control system: An assessment of the National Airspace System Plan 07 p0950 N84-16160
A concept for reducing oceanic separation minima through the use of a TCAS-derived CDTI
[NASA-CR-172256] 07 p0952 N84-16177
Activities report on air traffic control in the Federal Republic of Germany 09 p1253 N84-18182
Development of the L-1011 four-dimensional flight management system
[NASA-CR-3700] 09 p1254 N84-18183
Feasibility of remoting BRITE 2 via fiber optics
[AD-A135858] 09 p1389 N84-19071
Automated en route air traffic control algorithmic specifications. Volume 3: Flight plan conflict probe
[AD-A136795] 10 p1425 N84-19319
Automated en route air traffic control algorithmic specifications. Volume 4: Sector workload probe
[AD-A136796] 10 p1425 N84-19320
Automated en route air traffic control algorithmic specifications. Volume 2: Airspace probe
[AD-A136850] 10 p1426 N84-19324
Operational and functional description of the AERA packages
[AD-A136852] 10 p1426 N84-19326
Automated en route air traffic control algorithmic specifications. Volume 1: Trajectory estimation
[AD-A137088] 10 p1426 N84-19328
Addressee errors in ATC communications: The call sign problem
[NASA-CR-166462] 11 p1603 N84-20501
Mixing 4D-equipped and unequipped aircraft in the terminal area 11 p1616 N84-20577
Application of fuel/time minimization techniques to route planning and trajectory optimization 11 p1616 N84-20578
Fundamentals of mode S parity coding
[DOT/FAA/PM-83/6] 11 p1642 N84-20736
Mode S surveillance netting
[AD-A138267] 12 p1768 N84-21531
Simulation analysis and derivation of accuracy requirements for future terminal area navigation. Part 1: Single aircraft analysis
[BMFT-FB-W-83-035-PT-1] 12 p1768 N84-21535
Simulation analysis and derivation of accuracy requirements for future terminal area navigation. Part 2: Multi aircraft analysis
[BMFT-FB-W-83-036-PT-2] 12 p1769 N84-21536
Simulation of a cockpit-display concept for executing a wake-vortex avoidance procedure
[NASA-TP-2300] 12 p1770 N84-21542
En route/terminal ATC (Air Traffic Control) operations concept
[AD-A138991] 13 p1929 N84-22550
General aviation TCAS (Traffic Alert and Collision Avoidance System) avionics (GATCAS)
[AD-A139145] 14 p2104 N84-23618
Minimum operational performance standards for traffic alert and collision avoidance system (TCAS) airborne equipment, volume 2
[RTCA/DO-185-VOL-2] 16 p2445 N84-25686
Single-pilot IFR flights and operations
[SNIAS-832-210-103] 16 p2552 N84-26374
Evaluation of strategies to enhance departure sequencing
[AD-A140710] 17 p2605 N84-26689
AN/TPN-19 improvements program management plan
[AD-A140726] 17 p2605 N84-26690
Airfield delay simulation model (ADSIM) users guide
[PB84-171552] 17 p2611 N84-26715
Introduction to multiradar tracking systems 17 p2653 N84-26964
Doppler weather radar applications to terminal and enroute air traffic control 18 p2887 N84-28324
National airspace review benefits and costs
[FAA-AT-84-1] 19 p2961 N84-28765
Study of the FAA (Federal Aviation Administration) program to modernize maintenance operations
[AD-A142295] 20 p3125 N84-29648
FAA (Federal Aviation Administration) air traffic activity FY 1983
[AD-A142493] 20 p3127 N84-29861
Definition and layout of a traffic generator for an air traffic control simulation
[DFVLR-FB-84-15] 20 p3128 N84-29862
User's manual for a fuel-conservative descent planning algorithm implemented on a small programmable calculator
[NASA-TM-86275] 20 p3129 N84-29871
National Airspace Review: Implementation plan
[AD-A145379] 21 p3327 N84-31107
Distributed problem solving for air fleet control: Framework and implementations
[AD-A143168] 21 p3327 N84-31108
Thunderstorm impact on Denver air traffic control operations and the role of NEXRAD (Next Generation Weather Radar)
[PB84-189729] 22 p3534 N84-32374
Array processor utilization in the computation of real-time images
[ARL-SYS-TM-73] 22 p3637 N84-33058
Oversight on the Federal Aviation Administration fiscal year 1985 research, engineering and development budget request
[GPO-34-924] 22 p3676 N84-33302
Application of a probabilistic tracking filter: A first evaluation with emphasis on air traffic control. Part 1: Evaluation results
[NLR-TR-82088-U-PT-1] 23 p3692 N84-33397
Application of a probabilistic tracking filter: A first evaluation with emphasis on air traffic control. Part 2: Live traffic samples
[NLR-TR-82088-U-PT-2] 23 p3692 N84-33398
Modernization of the US national airspace system. Foundation for the future
[AD-A144332] 24 p3853 N84-34435

AIR TRAFFIC CONTROLLERS (PERSONNEL)
Aircraft accident report: Midair collision of North American Rockwell Aero Commander model 560E, N3627C and Cessna 182Q, N96402, Livingston, New Jersey, November 20, 1982
[PB83-910403] 01 p0006 N84-10036
Color perception and ATC job performance
[AD-A132649] 06 p0890 N84-15781
Computer based landing signal officer carrier aircraft recovery model
[AD-A133507] 06 p0894 N84-15808
The air traffic planning coordinator of the Federal Republic of Germany
[FACHTHEMEN-5] 07 p0945 N84-16130
Radar training facility initial validation
[AD-A133220] 07 p1049 N84-16797
Automated en route air traffic control algorithmic specifications. Volume 4: Sector workload probe
[AD-A136796] 10 p1425 N84-19320
Operational and functional description of AERA 1.01
[AD-A136831] 10 p1425 N84-19322
Pilot behavior models for LSO (Landing Signal Officer) training systems
[AD-A135823] 10 p1552 N84-20169
Attention, performance, and sustained activation in military air traffic controllers 11 p1698 N84-21076
En route/terminal ATC (Air Traffic Control) operations concept
[AD-A138991] 13 p1929 N84-22550
Detection of severe weather by FAA radars
[FAA-RD-79-91] 17 p2733 N84-27372
Understanding a technical language: A schema-based approach
[NASA-TM-85868] 19 p3070 N84-29478
Operational requirements for the Remote maintenance Monitoring System (RMMS)
[AD-A144218] 24 p3894 N84-34859

AIR TRANSPORTATION
USSR report: Transportation, no. 126
[JPRS-84457] 01 p0001 N84-10001
Improved air shipment of fruit reported this year 01 p0001 N84-10005
Aeronautics systems technology studies
[NASA-CR-174572] 02 p0167 N84-11098
Domestic scheduled air transport for the year 2000. Financial and capacity related effects of supply alternatives, considering, also, the cooperation with high speed rail transport services — West Germany
[DFVLR-FB-83-03] 03 p0328 N84-12141
Census of US civil aircraft
[PB83-252460] 04 p0478 N84-13147
Improvement needed in the implementation of the United States International Aviation Policy
[GPO-23-934] 07 p1087 N84-17072
Effects on rail transport caused by air transport supply alternatives within the Federal Republic of Germany for the year 2000
[DFVLR-MITT-83-14] 08 p1101 N84-17160
Economic cases of the Civil Aeronautics Board, Volume 101, April 1983 to May 1983
[PB84-127695] 09 p1405 N84-19183
Economic cases of the Civil Aeronautics Board, Volume 102, June 1983 to July 1983
[PB84-127703] 09 p1405 N84-19184
Compilation of selected aviation laws
[GPO-99-811] 11 p1752 N84-21438
USSR report: Transportation
[JPRS-UTR-84-004] 14 p2093 N84-23551
An analysis of national aviation policy with respect to America's strategic airlift capability
[AD-A141308] 18 p2946 N84-28679

AIR WATER INTERACTIONS
NT AIR SEA ICE INTERACTIONS
The southern oscilation: Oceanic-atmospheric circulation changes and related rainfall anomalies
[INPE-2903-PRE/420] 02 p0253 N84-11656
Role of the oceans in the carbon cycle
[DE83-015530] 02 p0258 N84-11688
On the growth of gravity-capillary waves by wind
[KNMI-WR-83-10] 03 p0412 N84-12698
Data validation and summary for the NRL remote sensing experiment: Phelps Bank, July, 1982. Part 2: Meteorology
[AD-A132105] 04 p0553 N84-13646
Fate and effects of metals in the sea-surface microlayer
[DE84-000114] 04 p0569 N84-13752
On the unsteady response of an oceanic front to local atmospheric forcing
[AD-A132215] 05 p0708 N84-14837
Climate-chemistry connection
[DE84-001950] 06 p0882 N84-15739
The effects of wind waves on sea level at the coast
[IOS-155] 07 p1042 N84-16754
Chemical and biological processes in CO/sub 2-ocean models
[DE84-003304] 08 p1182 N84-17702
Ocean research for understanding climatic variations: Priorities and goals for the 1980's
[PB84-105816] 08 p1192 N84-17768
Nelepo describes Intercosmos-Black Sea experiment 09 p1265 N84-18257
El Nino and the southern oscillation: A scientific plan
[PB84-129733] 09 p1351 N84-18825
The Role of Eddies in the General Ocean Circulation: Proceedings of Aha Huliko's Hawaiian Winter Workshop
[AD-A137212] 11 p1689 N84-21014
Waves and circulation driven by oscillatory winds in an idealized ocean basin
[AD-P002650] 11 p1689 N84-21015
Eddy: Mean flow interaction diagnostics
[AD-P002654] 11 p1690 N84-21019
Simulation of midlatitude variability
[AD-P002655] 11 p1690 N84-21020
Evidence for the direct atmospheric forcing of mid-ocean eddies
[AD-P002656] 11 p1690 N84-21021
Ventilated and unventilated models of the wind-driven circulation
[AD-P002657] 11 p1690 N84-21022

On the mean dynamical balances of the Gulf Stream Recirculation Zone
[AD-P002661] 11 p1691 N84-21026
Eddy heat flux in the North Pacific
[AD-P002666] 11 p1691 N84-21031
Sea surface temperatures from the Nimbus-7 scanning multichannel microwave radiometer
12 p1835 N84-21963
Measurement of sea surface temperature from HIRS2/MSU 12 p1836 N84-21966
Ocean fluxes simulated by the GLAS GCM
12 p1855 N84-22085
Design of coupled ocean-atmosphere experiments
12 p1856 N84-22093
Handbook of geophysics and space environments, Chapter 15, 1983 revision: Atmospheric temperature, density and pressure
[AD-A138846] 13 p2017 N84-23076
Arctic Sea ice by passive microwave observations from the Nimbus-5 Satellite 14 p2166 N84-23970
NASA Oceanic Processes Program, fiscal year 1983
[NASA-TM-86248] 14 p2183 N84-24078
Nimbus 7 SMMR derived seasonal variations in the water vapor, liquid water and surface winds over the global oceans
[NASA-TM-86080] 16 p2528 N84-26233
Modeling seasonal evolution of thermal regime of ocean-atmosphere system 17 p2697 N84-27181
Fractionation of chemical elements at ocean-atmosphere interface 17 p2698 N84-27189
Influence of wind on rate of gas exchange through ocean-atmosphere interface 17 p2699 N84-27190
Frontiers of Remote Sensing of the Oceans and Troposphere from Air and Space Platforms
[NASA-CP-2303] 17 p2711 N84-27262
Remote sensing for oceanography: Past, present, future 17 p2711 N84-27263
SPECTRASAT: A concept for the collection of global directional wave spectra 17 p2712 N84-27265
Remote sensing of air-sea interactions
17 p2712 N84-27267
A new parameterization of an empirical model for wind/ocean scatterometry 17 p2712 N84-27269
Underwater laser anemometer for measuring ocean currents 18 p2857 N84-28141
Evaluating parameters of vertical exchange of ocean waters by radioisotopic methods
18 p2858 N84-28146
Modeling kinetics of aerodisperse phase in ocean surface layer 18 p2859 N84-28153
Observing ocean-atmosphere exchanges with space-borne sensors, appendix C
18 p2884 N84-28298
Comments on atmospheric boundary layer forcing of ocean models, appendix J 18 p2885 N84-28305
Some comments on the atmospheric boundary layer over the ocean and its parameterization, appendix K
18 p2885 N84-28306
Parameterization of the atmospheric boundary layer at ECMWF, appendix O 18 p2885 N84-28310
The demand side flux determination, appendix P
18 p2886 N84-28311
Oceanic transport 20 p3218 N84-30444
Sea ice 20 p3218 N84-30446
Observational requirements and measurement systems concepts 20 p3219 N84-30452
Results of ocean-atmosphere interaction studies in West Atlantic 20 p3223 N84-30481
Spatial distribution of advective heat influxes in atmosphere over Northern Hemisphere and its relationship to heat influxes from ocean 20 p3223 N84-30482
Mechanisms of interannual ocean-atmosphere interactions
[NASA-CR-173834] 20 p3245 N84-30595
Global Biology Research Program: Biogeochemical Processes in Wetlands
[NASA-CP-2316] 20 p3256 N84-30665
Executive summary: Background
20 p3256 N84-30666
Geographic distribution of wetland parameters: The foundation of a data base 20 p3256 N84-30667
Excitation of quasi-static magnetic fields in axial structures 20 p3267 N84-30673
Proceedings of the 8th Annual Climate Diagnostics Workshop
[PB84-192418] 21 p3450 N84-31893
Southern oscillation-El Nino events: Characteristics, evolution, and precipitation anomalies
[INPE-2976-PRE/438] 22 p3627 N84-32983
The modification of the modulation transfer function by sea slicks measured by L-band radar
23 p3780 N84-33971
Chemical analysis of ions in rain water in natural regions: Correlations with aerosols in the atmosphere
[INPE-2856-PRE/395] 23 p3792 N84-34052
Atmospheric Science Workshop on the Meteorology of the Antarctic Region at INPE
[INPE-3202-RPE/460] 23 p3800 N84-34093

AIRBORNE EQUIPMENT
NT AIRBORNE/SPACEBORNE COMPUTERS
User requirements and a high level design of the hydrographic software/data processing subsystem of an airborne laser hydrography system
[PB83-228569] 01 p0127 N84-10830
Effects of vegetation canopy on the radar backscattering coefficient
[NASA-TM-85070] 02 p0208 N84-11359
Remote sensing using the airborne MEIS 2 multidetector electro optical imaging scanner
03 p0397 N84-12592
Passive radiometry and other remote sensing data interpretation for oil slick thickness assessment, in an experimental case 03 p0399 N84-12609
An airborne color video insetter
[AD-A132183] 04 p0484 N84-13185
Mathematical and physical scaling of triggered lightning — lightning effects on aircraft circuitry
[DE84-002480] 05 p0709 N84-14646
Critical factors and operational research in tactical fighter avionic system development 06 p0773 N84-15062
A study on airborne integrated display system and human information processing
[NASA-TM-77338] 06 p0891 N84-15789
Performance evaluation of the JPL interim digital SAR processor 07 p0969 N84-16407
Mechanisms for SAR imaging of ocean surface phenomena: Theory and experiment
07 p0990 N84-16416
Airborne fallout monitoring
[FOA-A-40045-A3] 08 p1183 N84-17705
Inorganic analysis in a controlled ecological life support system
[NASA-CR-173299] 08 p1204 N84-17852
L band push broom microwave radiometer: Soil moisture verification and time series experiment Delmarva Peninsula
[E84-10084] 10 p1520 N84-19955
A conical scan radiometer for an airplane mission
10 p1534 N84-20050
Minimum operational performance standards for airborne radio communications equipment operating within the radio frequency range 117.975 - 137.000 MGz
[RTCA/DO-186] 11 p1642 N84-20734
Airborne lidar for oceanography and hydrology (FLOH)
[ESA-TT-799] 13 p1996 N84-22955
Considerations pertinent to propagation prediction methods applied to airborne microwave equipment
15 p2326 N84-24970
GENTRI: A system for simultaneous adjustment of photogrammetric and other observations
15 p2358 N84-25152
Analysis of airborne electromagnetic systems for mapping thickness of sea ice
[AD-A139786] 15 p2373 N84-25235
The evolutionary trend in airborne and satellite radar altimeters 17 p2718 N84-27300
C3I system modification and EMC (electromagnetic compatibility) methodology, volume 1
[AD-A141420] 19 p3004 N84-29041
Comparison of airborne turbulence-indicating doppler radar systems with ground-based doppler radar systems
[AD-A141474] 19 p3005 N84-29043
A 60 GHz pulse radar for detection of high voltage power lines
[BMFT-FB-W-84-013] 19 p3009 N84-29077
Airborne wind measurements at Cape Blanco, Oregon
[DE84-013662] 21 p3448 N84-31880
Future requirements for airborne simulation
[AGARD-AR-188] 22 p3538 N84-32401
Airborne Visible/Infrared Imaging Spectrometer (AVIRIS): An advanced tool for Earth remote sensing
23 p3781 N84-33976
A search for 183-GHz emission from water in late-type stars
[NASA-TM-85987] 23 p3838 N84-34348
An ER-2 aircraft airborne lidar as part of the development program of a spaceborne system: A potential NASA/CNES cooperative project 24 p3907 N84-34744
Mapping of Arctic haze using airborne lidar
24 p3907 N84-34746
Overview of mesocale research Doppler lidar activities
24 p3928 N84-34863
Evaluation of airborne lidar wind measurements
24 p3928 N84-34865

AIRBORNE LASERS
Space/Airborne Laser Ranging (SALR) as complement to groundbased transportable Satellite Laser Ranging (SLR) — crystal dynamics 24 p3906 N84-34742

AIRBORNE RADAR APPROACH
Development and flight test of an X-band precision approach concept for remote-area rotorcraft operations
[NASA-TM-84398] 01 p0007 N84-10041

AIRBORNE SURVEILLANCE RADAR
Tracking theory for airborne surveillance radars
[AD-A131792] 03 p0361 N84-12350
Effective Earth radius for refraction of radio waves at altitudes above 1 km
[AD-A137095] 10 p1482 N84-19683
Preliminary investigations concerning a 90 GHz radiometer satellite experiment
[DFVLR-FB-84-02] 15 p2280 N84-24693

AIRBORNE/SPACEBORNE COMPUTERS
Distributed processing and fiber optic communications in air data measurements 02 p0189 N84-11110
An on board control and supervisory system
[INPE-2812-TDL/139] 02 p0208 N84-11357
Effects of integrated maintenance on the definitions of onboard equipments — Mirage 2000 aircraft
03 p0316 N84-12068
Helicopter In-flight Monitoring System second generation (HIMS 2)
[AD-A132496] 04 p0483 N84-13179
Flight evaluation of a linear optical displacement transducer
[AD-A132638] 05 p0630 N84-14141
Software flexibility ensured success of Dutch Astronomical Netherlands Satellite (ANS) and Infrared Astronomical Satellite (IRAS) satellites
05 p0725 N84-14758
CASCADE: A design environment for future avionic systems 06 p0772 N84-15057
Methods for developing the navigation and weapon systems of the Mirage 2000 06 p0774 N84-15068
The man-machine interface in new generation commercial aircraft 06 p0777 N84-15096
Processor architecture for airborne SAR systems
07 p0989 N84-16406
A fast, programmable hardware architecture for spaceborne SAR processing 07 p0989 N84-16409
Spacecraft command-measurement complex
09 p1264 N84-18256
Centralized warning systems for the new generation of airliners
[VTH-LR-373] 10 p1424 N84-19315
Advanced aircraft electrical system control technology demonstrator. Phase 1: Requirements analysis & preliminary design. Phase 2: Detailed design
[AD-A136758] 10 p1428 N84-19337
Development of a redundant computer system for flight augmentation
[BMFT-FB-W-83-027] 10 p1431 N84-19356
Interface control document for AN/ARC-186 VHF-AM/FM radio
[AD-A136939] 10 p1481 N84-19679
Airborne real time multisensor navigation
[AD-B079957] 12 p1768 N84-21534
A dual digital to video converter for avionics symbology and messages
[AD-A138383] 12 p1771 N84-21547
Reprogrammable onboard mission of IRAS
[NLR-MP-83014-U] 13 p1937 N84-22600
Proceedings of the 1983 Symposium on Military Space Communications and Operations
[AD-A135021] 14 p2137 N84-23809
Mission operations impact of specific shuttle vehicle improvements
[AD-P002152] 14 p2138 N84-23817
Highly integrated digital engine control system on an F-15 airplane
[NASA-TM-86040] 15 p2262 N84-24587
The role of onboard intelligence and of orbital servicing in the increase of satellite lifetime
15 p2266 N84-24605
Fault tolerant spaceborne computer
15 p2266 N84-24607
A filtered attitude determination system for spacecraft measurement and control 15 p2267 N84-24612
Certifying onboard software: A total progressive approach 15 p2269 N84-24625
Verification and validation techniques applied to the reconfigurable block SD satellite software
15 p2269 N84-24626
Investigation, development, and evaluation of performance proving for fault-tolerant computers
[NASA-CR-166008] 15 p2385 N84-25307
STP: A mechanized logic for specification and verification 15 p2386 N84-25308
Specifying and verifying ultra-reliability and fault-tolerance properties 15 p2386 N84-25309
The hierarchical specification and mechanical verification of the SIFT design 15 p2386 N84-25310
Overview of code verification
15 p2386 N84-25311
A summary of HDM 15 p2386 N84-25312

A formal semantics for the SRI hierarchical program design methodology 15 p2387 N84-25318
On why it is impossible to prove that the BDX90 dispatcher implements a time-sharing system 15 p2387 N84-25319
Defining of the BDX930 assembly language 15 p2387 N84-25320
Verification of numerical algorithms 15 p2387 N84-25321
Software quality assurance for ESA spacecraft and associated equipment [ESA-PSS-01-21-ISSUE-1] 16 p2500 N84-26037
Proceedings of the 12th Symposium on Aircraft Integrated Data Systems [DFVLR-MITT-84-01] 17 p2585 N84-26585
Are we giving aircraft integrated data systems users the best information in the best way at the best time? 17 p2585 N84-26586
Access to maintenance via Aircraft Integrated Data System (AIDS): Future aspects of the expanded AIDS 17 p2585 N84-26587
Engine condition monitoring with aircraft integrated data systems on Lufthansa A310 17 p2585 N84-26571
First experience with ARINC 717 Aircraft Integrated Data Systems (AIDS) on Airbus 310 for maintenance support 17 p2586 N84-26572
Performance validation of Lear Siegler flight management systems 17 p2586 N84-26578
Delco performance management system flight test evaluation 17 p2587 N84-26579
Performance validation of Sperry Flight Management Systems (FMS) 17 p2587 N84-26580
Aircraft Integrated Data Systems (AIDS) on medium size aircraft 17 p2587 N84-26582
The silicon AIDS (Airborne Integrated Data Systems) 17 p2587 N84-26583
Fault tolerant architectures for integrated aircraft electronics systems, task 2 [NASA-CR-172282] 18 p2795 N84-27734
A concurrent PASCAL implementation on a Rolm 1664 [NLR-MP-83035-U] 18 p2922 N84-28531
Assessment of data handling configuration for on-board operation system definition [DM55/JPS/JP/321.82] 19 p2982 N84-28898
User's manual for a fuel-conservative descent planning algorithm implemented on a small programmable calculator [NASA-TM-86275] 20 p3129 N84-29871
Proton-induced single event upsets in the SBP9989 microprocessor [AD-A142448] 20 p3266 N84-30724
Software control and system configuration management: A systems-wide approach [NASA-TM-85908] 21 p3328 N84-31112
Transportable GPU (General Processor Units) chip set technology for standard computer architectures [AD-P003553] 21 p3334 N84-31157
MIL-STD-1750A as a spaceborne instruction set architecture [AD-P003554] 21 p3334 N84-31158
The application of standards to the TDY-750 (TIGERSHARK) mission computer [AD-P003567] 21 p3337 N84-31172
Development of a digital air data computer using modern microprocessors, hybrid circuits, and pressure sensors with frequency output [BMFT-FB-W-84-018] 21 p3343 N84-31208
Some management initiatives to improve embedded commercial computer and training device life cycle support [AD-P003494] 21 p3514 N84-32260
Viking lander: Building a complex spacecraft 24 p3991 N84-35256

AIRBUS
U EUROPEAN AIRBUS

AIRCRAFT
Yellow ophthalmic filters in the visual acquisition of aircraft [AD-A138536] 13 p2020 N84-23097
Status of new aerothermodynamic analysis tool for high-temperature resistant transperencies [AD-P003236] 17 p2598 N84-26649
International aviation (selected articles) [AD-A140895] 17 p2601 N84-26671
STABCAR: A program for finding characteristic root systems having transcendental stability matrices [NASA-TP-2165] 17 p2751 N84-27461
Worldwide flight and ground-based exposure of composite materials 20 p3145 N84-29971
Oscillations of elastic airplane due to wind gust 21 p3485 N84-32087
System for indicating fuel-efficient aircraft altitude [NASA-CASE-NPO-15351-2] 24 p3855 N84-34443

AIRCRAFT ACCIDENT INVESTIGATION
Investigation, reporting and analysis of US Army aircraft accident 06 p0775 N84-15077
The use of flight recorders in the investigation of aircraft mishaps 06 p0775 N84-15078
Aircraft accident report: Eastern Air Lines, inc., Boeing 727-225, N8838E, Raleigh, North Carolina, November 12, 1975 [PB83-910406] 11 p1603 N84-20500
Aircraft accident report. Western Helicopters, Inc., Bell-UH-1B, N67701, Valencia, California July 23, 1982 [PB84-910402] 11 p1603 N84-20502
Aircraft accident report. Eastern Air Lines, Incorporated, Lockheed L-1011, N334EA, Miami International Airport, Miami, Florida, May 5, 1983 [NTSB-AAR-84-04] 14 p2103 N84-23613
Safety recommendation(s) A-84-10 and -11 16 p2444 N84-25676
Safety recommendation(s) A-84-16 16 p2444 N84-25679
Deficiencies of current flight data recorders in accidents investigation 17 p2586 N84-26575
McCauley Aviation, Inc. Mitsubishi MU-2B, N72B near Jeffersonville, Georgia, March 24, 1983 aircraft accident report [PB84-910401] 18 p2789 N84-27702
Aircraft accident report: Las Vegas Airlines, Flight 88, Piper PA-31-350, Grand Canyon, Arizona, August 17, 1983 [PB84-910405] 19 p2960 N84-28760

AIRCRAFT ACCIDENTS
NT BIRD-AIRCRAFT COLLISIONS
Multi-scale analyses of meteorological conditions affecting Pan American World Airways flight 759 [PB83-222562] 01 p0006 N84-10040
Controls, Displays, and Information Transfer for General Aviation IFR Operations [NASA-CP-2279] 03 p0311 N84-12029
Single pilot IFR accident data analysis 03 p0311 N84-12031
A summary and integration of research concerning single pilot IFR operational problems 03 p0312 N84-12034
Lessons learned from FY82 US Army aviation mishaps [AD-A131725] 03 p0328 N84-12137
Aircraft accident report - United Airlines Flight 2885, N8053U, McDonnell Douglas DC-8-54F, Detroit, Michigan, January 11, 1983 [PB83-910407] 04 p0481 N84-13168
Aircraft accident report - A. E. Staley Manufacturing Company, Inc., Canadair Challenger CL-600, N805C, Hailey, Idaho, January 3, 1983 [PB83-910405] 04 p0482 N84-13169
Crash Position Indicator/Crash Survivable Flight Data Recorder ejectable versus nonejectable [AD-A132329] 04 p0484 N84-13184
Fire management-suppression system-concepts relating to aircraft cabin fire safety [FAA-CT-82-134] 05 p0628 N84-14130
Flight Mechanics and System Design Lessons From Operational Experience [AGARD-CP-347] 06 p0775 N84-15076
Investigation, reporting and analysis of US Army aircraft accident 06 p0775 N84-15077
The use of flight recorders in the investigation of aircraft mishaps 06 p0775 N84-15078
Two decades of air carrier jet operation 06 p0775 N84-15080
Worldwide experience of wind shear during 1981-1982 06 p0776 N84-15087
Some comments on the hazards associated with manoeuvring flight in severe turbulence at high speed and low altitude 06 p0776 N84-15089
Army helicopter crashworthiness 06 p0777 N84-15090
Linguistic methodology for the analysis of aviation accidents [NASA-CR-3741] 06 p0784 N84-15135
Airborne lightning characterization [AD-A130827] 06 p0881 N84-15733
FAA (Federal Aviation Administration) statistical handbook of aviation: Calender year 1982 [PB84-127323] 08 p1096 N84-17124
The 1980 and 1981 accident experience of civil airmen with selected visual pathology [AD-A134898] 08 p1101 N84-17158
Computer modeling of aircraft cabin fires [PB84-101153] 08 p1101 N84-17162
Addressee errors in ATC communications: The call sign problem [NASA-CR-166462] 11 p1603 N84-20501
Aircraft accident report. Western Helicopters, Inc., Bell-UH-1B, N87701, Valencia, California July 23, 1982 [PB84-910402] 11 p1603 N84-20502
Aircraft accident report: Sierra Pacific Airlines, DHC-6-300, N361V, Hailey, Idaho, February 15, 1983 [PB84-910403] 12 p1767 N84-21525
Survey of NASA research on crash dynamics [NASA-TP-2298] 12 p1826 N84-21901
Aircraft accident report. Eastern Air Lines, Incorporated, Lockheed L-1011, N334EA, Miami International Airport, Miami, Florida, May 5, 1983 [NTSB-AAR-84-04] 14 p2103 N84-23613
System safety and the Coast Guard lighter-than-air system project [AD-A139807] 15 p2258 N84-24584
Annual review of aircraft accident data: US general aviation, 1980 [PB84-182914] 16 p2443 N84-25672
Safety recommendation: Cessna Model 402C airplane, September 5, 1983, Tampa International Airport, Tampa, Florida 16 p2444 N84-25680
Note on an accident to the Boulton Paul 120 VT 951 delta aircraft [RAE-STRUCT-ACC-248] 17 p2603 N84-26677
Note on the structural failure of Handley page 88 (E6/48) VX.330 [RAE-STRUCT-ACC-245] 17 p2603 N84-26678
McCauley Aviation, Inc. Mitsubishi MU-2B, N72B near Jeffersonville, Georgia, March 24, 1983 aircraft accident report [PB84-910401] 18 p2789 N84-27702
Analysis of incidents during helicopter missions [FOA-C-53016-H2] 18 p2790 N84-27706
Study on transport airplane unplanned water contact [AD-A142092] 19 p2961 N84-28764
Design of wind shear filters [NASA-TM-77460] 19 p2968 N84-28808
Aircraft accident report. Midair collision: McDonnell-Douglas F-4C Beech D-55 Baron, Cherry Point, North Carolina, 9 January 1983 [PB84-910407] 22 p3533 N84-32368

AIRCRAFT ANTENNAS
General 3rd Airborne antenna radiation pattern code users manual [AD-A130359] 01 p0121 N84-10790
Numerical modelling methods for predicting antenna performance on aircraft 03 p0365 N84-12375
Proceedings of the Antenna Applications Symp., volume 2 [AD-A142754] 21 p3383 N84-31467
A conformal SHF phased array for aircraft satellite communication [AD-P003509] 21 p3384 N84-31477
Radio frequency distribution assembly [AD-A143575] 22 p3577 N84-32658
In-flight accuracy and coverage tests of ESM- and ECM-systems 24 p3849 N84-34412

AIRCRAFT BASES
U MILITARY AIR FACILITIES

AIRCRAFT BRAKES
NT SPLIT FLAPS
NT TRAILING-EDGE FLAPS
NT WING FLAPS

AIRCRAFT CABINS
U AIRCRAFT COMPARTMENTS

AIRCRAFT CARRIERS
Computer based landing signal officer carrier aircraft recovery model [AD-A133507] 06 p0894 N84-15808
Predictor displays as training aids in carrier landings [AD-A136643] 10 p1433 N84-19367
Specialized common carriers: Long distance alternatives for military installations [AD-A140596] 17 p2653 N84-26967

AIRCRAFT COMMUNICATION
Weather data communication and utilization 03 p0313 N84-12045
Meteor scatter communication in an air-ground environment [RAE-TM-RAD-NAV-224] 09 p1298 N84-18484
A conformal SHF phased array for aircraft satellite communication [AD-P003509] 21 p3384 N84-31477

AIRCRAFT COMPARTMENTS
Optimization of aircraft seat cushion fire blocking layers [NASA-TM-85430] 01 p0006 N84-10037
Study of noise transmission through double wall aircraft windows [NASA-CR-172182] 02 p0267 N84-11884
Inhalation toxicology. 3: Evaluation of thermal degradation products from aircraft and automobile engine oils, aircraft hydraulic fluid, and mineral oil [AD-A133221] 06 p0889 N84-15778
Effects of ventilation and panel properties on temperature rise from aircraft fires [DOT/FAA/CT-TN83/63] 07 p0949 N84-16157
Developments in cabin safety and crashworthiness --- passenger aircraft 08 p1101 N84-17161

Fire-retardant decorative inks for aircraft interiors
[NASA-TM-85876] 10 p1451 N84-19475
Cabin safety subject index
[AD-A140409] 16 p2445 N84-25683
Narrowband (LPC-10) vocoder performance under combined effects of random bit errors and jet aircraft cabin noise
[AD-A141333] 18 p2830 N84-27967
Criteria for selecting subjects for the assessment of advanced crew system concepts
[AD-P003354] 18 p2912 N84-28470
General aviation aircraft interior noise problem: Some suggested solutions
[NASA-CR-173784] 19 p3099 N84-29685
Propeller aircraft interior noise model
[NASA-CR-3813] 19 p3099 N84-29687
Experimental study of noise transmission into a general aviation aircraft
[NASA-CR-172357] 20 p3290 N84-30888
Report to Congress on the effectiveness of the Civil Aviation Security Program
[AD-A143023] 21 p3326 N84-31103
Study of double wall panels for use in propeller driven aircraft
[NASA-CR-173847] 21 p3490 N84-32116
Prediction of light aircraft interior sound pressure level using the room equation
[NASA-CR-173840] 21 p3490 N84-32117
Analytical model of the structureborne interior noise induced by a propeller wake
[NASA-CR-172381] 21 p3490 N84-32119
System for the removal of airborne contaminants from aircraft environmental control systems
[AD-D011172] 23 p3727 N84-33615
Application of compartmentalization/air lock of simulated pressurized aircraft and tolerance of lung to rapid decompression in different laboratory animals
24 p3957 N84-35053

AIRCRAFT CONFIGURATIONS
Preliminary Aeroelastic Design of Structures (PADS) methods development and application
02 p0170 N84-11117
Family of airfoil shapes for rotating blades — for increased power efficiency and blade stability
[NASA-CASE-LAR-12843-1] 02 p0173 N84-11136
Analysis of electromagnetic backscatter from an inlet cavity configuration
[AD-A133626] 05 p0669 N84-14400
TAS: A Transonic Aircraft/Store flow field prediction code
[NASA-CR-3721] 06 p0781 N84-15114
Analysis of nonplanar wing-tip mounted lifting surfaces on low-speed airplanes 06 p0786 N84-15142
Research and technology report, 1983
[NASA-TM-85865] 08 p1247 N84-18152
Investigation of trailing-edge-flap, spanwise-blowing concepts on an advanced fighter configuration
[NASA-TP-2250] 09 p1251 N84-18164
Integration of flight test data into a real-time simulation
09 p1259 N84-18216
SKETCH: A computer program for plotting a transport airplane configuration in conceptual design
[VTH-LR-388] 10 p1429 N84-19348
Wing planform effects at supersonic speeds for an advanced fighter configuration
[NASA-TP-2269] 11 p1601 N84-20486
Computational methods for subsonic and transonic aerodynamic design
[AD-B079994] 12 p1767 N84-21524
Wind-tunnel investigation of an advanced general aviation canard configuration
[NASA-TM-85760] 12 p1769 N84-21539
Use of a small scale wind tunnel and model shop at Aeronautica Macchi as an industrial tool
14 p2097 N84-23585
Design of advanced technology maneuvering aircraft models for the National Transonic Facility
14 p2098 N84-23590
Design of a wind tunnel afterbody model for the development of a transonic combat aircraft
14 p2098 N84-23591
The new calibration tank for engine simulators at DFVLR Goettingen 14 p2099 N84-23593
Application of near-term technology to a Mach 2.0 variable-sweep-wing, supersonic-cruise executive jet
[NASA-CR-172321] 14 p2104 N84-23621
V/STOL wind-tunnel testing
[NASA-TM-85936] 15 p2253 N84-24528
Special Course on V/STOL Aerodynamics
[AGARD-R-710] 16 p2436 N84-25625
V/STOL concepts in the United States: Past, present, and future 16 p2436 N84-25628
Assessment of aerodynamic performance of V/STOL and STOVL fighter aircraft 16 p2437 N84-25636
NASTRAN analysis of nuclear effects on helicopter transparencies
[AD-P003234] 17 p2597 N84-26647
Status of new aerothermodynamic analysis tool for high-temperature resistant transparencies
[AD-P003236] 17 p2598 N84-26649
Designer, scientist on projected developments in aviation 18 p2784 N84-27669
Antonov Bureau developing new STOL turbofan for use in far north 18 p2790 N84-27710
Application of selected advanced technologies to high performance, single-engine, business airplanes
[NASA-CR-172361] 18 p2792 N84-27719
Cost analysis of Mode S data link avionics system for the low-performance general aviation aircraft community
[DOT/FAA/PM-83/38] 18 p2795 N84-27735
Algorithms for zonal methods and development of three dimensional mesh generation procedures
[AD-A141692] 19 p3066 N84-29592
Design study of test models of maneuvering aircraft configurations for the National Transonic Facility (NTF)
[NASA-CR-3827] 23 p3696 N84-33422
Determination of external store drag
24 p3847 N84-34397

AIRCRAFT CONSTRUCTION
U AIRCRAFT STRUCTURES

AIRCRAFT CONSTRUCTION MATERIALS
NT AIRFRAME MATERIALS
An empirical appraisal of defects in composites — helicopter tail rotor blades 01 p0034 N84-10211
Research and technology, 1983
[NASA-TM-85702] 02 p0309 N84-12026
Long term evaluation of the effects of shale oil produced JP-4 on aircraft construction materials
[AD-A131665] 03 p0331 N84-12161
The effect of some water-displacing corrosion preventatives on corrosion of aluminum alloys 7075-T651 and 2024-T6
[ARL-MAT-REPT-115] 07 p0973 N84-16307
Friction and wear behavior of aluminum and composite airplane skins
[NASA-TP-2262] 08 p1103 N84-17175
Composite structural materials
[NASA-CR-173259] 08 p1122 N84-17293
Rapid solidification processing of Al-Cu-Li-Mg alloys
[VTH-LR-380] 10 p1464 N84-19560
Fatigue crack growth in aluminum alloy sheet material under constant amplitude and simplified flight simulation loading
[VTH-LR-381] 10 p1464 N84-19561
The peel strength of aramid aluminum laminate (ARALL)
[VTH-LR-397] 12 p1790 N84-21673
Aramid Aluminum Laminate (ARALL): A material for the next generation of aircraft, a state of the art
[VTH-LR-400] 12 p1790 N84-21674
Clarification of environmental effects in stress corrosion cracking
[AD-A138581] 13 p1960 N84-22737
High temperature adhesives for structural applications: A review — aircraft engines
[PNR-90171] 13 p1965 N84-22767
High performance composites and adhesives for V/STOL aircraft
[AD-A139168] 14 p2119 N84-23702
AGARD bulletin: Meetings, publications, membership
[AGARD-BUL-84/1] 14 p2252 N84-24527
Journal of aeronautical materials (selected articles)
[AD-A140167] 16 p2434 N84-25610
Current requirements on specifications for corrosion prevention 16 p2435 N84-25618
Cracking threshold on steel used in aeronautical construction: influence of the environment
[SNIAS-832-551-101] 16 p2465 N84-25797
The industry's materials: SNIAS and general conditions of its environment
[SNIAS-832-502-101] 16 p2475 N84-25865
Nondestructive testing of composite structures
[SNIAS-832-210-108] 16 p2500 N84-26045
Dynamic fracture behavior of structural materials
[AD-A140381] 16 p2502 N84-26060
Aircraft seat fire blocking layers. Effectiveness and benefits under various scenarios
[AD-A140796] 17 p2603 N84-26681
Processing and properties of airframe materials
[AD-A140832] 17 p2624 N84-26797
Characterization of a sample of aluminum alloy longeron in 7050 T73652 of Alcoa origin. Summary of test number MO 570300 18 p2794 N84-27729
Material characterization by strain rate controlled low cycle fatigue tests and by crack propagation velocity: Summary of test number M3 430300
[IMI-679] 18 p2816 N84-27878
Flexible manufacturing line for aircraft structures of sheet metal
[BMFT-FB-W-84-011] 19 p2955 N84-28731
ACEE Composite Structures Technology: Review of selected NASA research on composite materials and structures
[NASA-CP-2321] 20 p3145 N84-29969
Residual-strength tests of L-1011 vertical fin components after 10 and 20 years of simulated flight service 20 p3145 N84-29970
Worldwide flight and ground-based exposure of composite materials 20 p3145 N84-29971
Postbuckling behavior of graphite-epoxy panels
20 p3146 N84-29976
Studies of noise transmission in advanced composite material structures 20 p3146 N84-29977
Adhesive bond and composite strength screening system developmental study
[FZM-7184] 20 p3161 N84-30073
Air force technical objective document FY 85
[AD-A141925] 20 p3312 N84-31033
Modern structure materials: Present situation and evolution perspectives — aircraft construction materials
[SNIAS-841-551-103] 21 p3328 N84-31118
Investigation of damage and damage propagation in static and fatigue tests on carbon epoxy composites
[SNIAS-841-551-102] 21 p3358 N84-31298
Nonlinear analysis for high-temperature composites: Turbine blades/vanes 21 p3421 N84-31699
Aeronautical Engineering: A Continuing Bibliography with indexes
[NASA-SP-7037(178)] 22 p3529 N84-32343
Curved cap corrugated sheet
[NASA-CASE-LAR-12884-1] 23 p3700 N84-33450
Manufacturing developments to reduce strategic materials usage 23 p3703 N84-33475
Ground exposure of composite materials for helicopters
[NASA-TM-86311] 24 p3879 N84-34577

AIRCRAFT CONTROL
NT HELICOPTER CONTROL
ATOPS B-737 inner-loop control system linear model construction and verification
[NASA-CR-166055] 01 p0012 N84-10078
Special Course on Aerodynamic Characteristics of Controls
[AGARD-R-711] 01 p0013 N84-10082
Introductory remarks and review of 1979 symposium
01 p0013 N84-10083
The aerodynamics of aircraft control: A general survey in the context of active control technology
01 p0013 N84-10084
Mathematical modelling and theoretical methods for the aerodynamic behaviour of control devices
01 p0013 N84-10085
Dynamic effects of controls 01 p0013 N84-10086
Experimental methods to determine control effectiveness in wind tunnels 01 p0013 N84-10087
Control of the forebody vortex orientation by asymmetric air injection. Part A: Application to enhance departure/spin recovery of fighter aircraft and Part B: Details of the flow structure 01 p0014 N84-10088
Control of advanced fighter aircraft
01 p0014 N84-10089
Direct force control 01 p0014 N84-10090
Experimental methods in flight for the measurement of control characteristics 01 p0014 N84-10091
Integration of Fire Control, Flight Control and Propulsion Control Systems
[AGARD-CP-349] 03 p0315 N84-12056
Integration of fire, flight and propulsion control systems: An overview, retrospective and prospective
03 p0315 N84-12057
Application of flight controls technology to engine control systems 03 p0315 N84-12061
The use of a formal simulator to verify a simple real time control program
[AD-A131732] 03 p0420 N84-12745
La Recherche Aerospatiale, Bimonthly Bulletin, no. 1982-2, 207/March-April 1982
[ESA-TT-759] 04 p0478 N84-13143
An application of nonlinear programming to the design of regulators of a linear-quadratic formulation
[NASA-CR-172253] 04 p0515 N84-13380
Frequency-shaped estimation and robust controller design for aircraft flight control in wind disturbances
05 p0632 N84-14154
Flying qualities experiments of rate command/attitude hold systems in the HFB 320 in-flight simulator
[DFVLR-FB-83-25] 06 p0792 N84-15163
Optimal symmetric flight with an intermediate vehicle model 07 p0943 N84-16117
Optimal symmetric flight with an intermediate vehicle model
[NASA-CR-173181] 07 p0951 N84-16167
Control definition study for advanced vehicles
[NASA-CR-3738] 07 p0958 N84-16212

Development of the L-1011 four-dimensional flight management system
[NASA-CR-3700] 09 p1254 N84-18183
Flight evaluation of the DEEC secondary control air-start capability
[NASA-TM-84910] 09 p1257 N84-18203
Low-speed handling qualities of advanced transport aircraft: A comparison of ground-based and in-flight simulator experiments
[NLR-TR-82041-U-REV] 09 p1258 N84-18212
A survey of the Control system Analysis and Synthesis Program (CASPAR) package for Aerospace Research
[VTH-LR-336] 10 p1423 N84-19304
Lecture notes on airplane stability and control 1, part 1
[VTH-LR-384-PT-1] 10 p1431 N84-19357
Lecture notes on airplane stability and control 1, part 2
[VTH-LR-384-PT-2] 10 p1432 N84-19358
Interface control document for AN/ARC-186 VHF-AM/FM radio
[AD-A136939] 10 p1481 N84-19679
Cooperative pilot-optimal augmentation system synthesis for complex flight vehicles
11 p1605 N84-20511
Aircraft control position indicator
[NASA-CASE-LAR-12984-1] 11 p1607 N84-20522
Foreign technology summary of flight crucial flight control systems 11 p1618 N84-20587
A brief review of aircraft controls research opportunities in the general aviation field 11 p1619 N84-20595
Military aircraft research opportunities for the future
11 p1619 N84-20598
Opportunities for aircraft controls research
11 p1619 N84-20599
Design of longitudinal control laws for the X-29A backup analog flight control system
[AD-A137814] 11 p1619 N84-20601
Aircraft accident report: Sierra Pacific Airlines, DHC-6-300, N361V, Hailey, Idaho, February 15, 1983
[PB84-910403] 12 p1767 N84-21525
Multivariable digital flight control design for the FPCC (Flight propulsion control coupling) aircraft
[AD-A136093] 12 p1772 N84-21556
V/STOL maneuverability and control
[NASA-TM-85939] 13 p1935 N84-22584
Multivariable control law theory
15 p2253 N84-24530
The use of a formal simulator to verify a simple real time control program 15 p2388 N84-25322
V/STOL maneuverability and control
16 p2437 N84-25632
La Recherche Aerospatiale, Bimonthly Bulletin, no. 1983-6, 217/November-December
[ESA-TT-841] 16 p2476 N84-25870
Robustness quantification for nonlinear sampled-data systems with dynamic multiplicative perturbations
16 p2476 N84-25871
Flight dynamics and aircraft piloting
[ONERA-P-1983-1] 16 p2539 N84-26301
Design and analysis of a longitudinal ride comfort control system for a Short Take-Off and Landing (STOL) aircraft
[UTIAS-TN-254] 17 p2748 N84-27442
Design of wind shear filters
[NASA-TM-77460] 19 p2968 N84-28808
Effect of control logic modifications on airstart performance of F100 engine model derivative engines in an F-15 airplane
[NASA-TM-85900] 20 p3130 N84-29879
Oscillations of elastic airplane due to wind gust
21 p3485 N84-32087
Digital control loading: A microprocessor-based approach
[AD-P003483] 21 p3512 N84-32250
Development and flight evaluation of an augmented stability active controls concept with a small tail
[NASA-CR-173880] 22 p3537 N84-32395
Direct lift command blending
[AD-D011178] 23 p3696 N84-33420
The flight test of an automatic spin prevention system
24 p3847 N84-34398
Flight testing a digital flight control system: Issues and results 24 p3848 N84-34403
Reference systems for the evaluation of dead-reckoning navigation equipment 24 p3848 N84-34406
Computer program to simulate the lateral-directional response of a high performance aircraft digital electronic flight control system
[AD-A144480] 24 p3856 N84-34447
GASP cloud- and particle-encounter statistics and their application to LPC aircraft studies. Volume 1: Analysis and conclusions
[NASA-TM-85835] 24 p3923 N84-34828

AIRCRAFT DESIGN
NT HELICOPTER DESIGN

An-32 transportation aircraft, USSR
[AD-A131013] 01 p0008 N84-10050
Airplane actuation trade study
[AD-A130709] 01 p0013 N84-10080
China report: Science and technology, no. 208
[JPRS-84474] 01 p0118 N84-10766
YIDOYU-1: Computer system for optimal wing design
01 p0118 N84-10768
Investigation of air transportation technology at Princeton University 02 p0169 N84-11108
Aeroelastic Considerations in the Preliminary Design of Aircraft
[AGARD-CP-354] 02 p0169 N84-11116
Preliminary Aeroelastic Design of Structures (PADS) methods development and application
02 p0170 N84-11117
Aerospatial'es approach to the study of flutter at the design stage of the project 02 p0170 N84-11118
Aeroelastic tailoring of high-aspect-ratio composite wings in the transonic regime 02 p0170 N84-11119
Aeroelastic design of civil transports at the project stage 02 p0170 N84-11120
Transonic flutter clearance for a supercritical transport aircraft in the preliminary stage
02 p0170 N84-11121
Influence of main design parameters on flutter behaviour for aircraft configurations with heavy concentrated masses 02 p0170 N84-11122
Aeroelastic design considerations for turboprop powerplant installations 02 p0171 N84-11123
The development of FAST-FLOW (a program for flutter optimization to satisfy multiple flutter requirements)
02 p0171 N84-11124
The influence of aeroelastic stability requirements on helicopter design 02 p0171 N84-11127
Preliminary design of aircraft using structural optimization methods 02 p0172 N84-11133
A flutter optimization program for complete aircraft structural design 02 p0172 N84-11134
Fast flutter clearance by parameter variation
02 p0172 N84-11135
Quiang 5 attack aircraft of the PRC
[AD-A131058] 02 p0177 N84-11161
Guidelines for composite materials research related to general aviation aircraft
[NASA-CR-3720] 02 p0187 N84-11218
User's guide for a computer program for calculating the zero-lift wave drag of complex aircraft configurations
[NASA-TM-85670] 02 p0271 N84-11774
Transmission of sound through a cylindrical shell and a light aircraft fuselage 02 p0287 N84-11881
An integrated AFCS for the "PROFILE"-mode
03 p0317 N84-12069
Computational methods for subsonic and transonic aerodynamic design 03 p0317 N84-12074
Aerodynamic interference: A general overview
03 p0318 N84-12080
Transonic configuration design
03 p0318 N84-12081
Transonic configuration design (fighter)
03 p0318 N84-12082
External stores interference 03 p0318 N84-12083
Interference problems in aircraft design
03 p0319 N84-12084
Engine/airframe interference
03 p0319 N84-12085
Engine-airframe interference effects
03 p0319 N84-12086
Geometries for roughness shapes in laminar flow
[NASA-CASE-LAR-13255-1] 03 p0320 N84-12092
Recent studies at NASA-Langley of vortical flows interacting with neighboring surfaces
03 p0322 N84-12109
Design considerations for bearingless rotor hubs
[AD-A131660] 03 p0331 N84-12162
Ground and inflight operational effects of APU's
03 p0335 N84-12182
Some thoughts concerning large load-carrying vehicles
[NASA-TM-85701] 04 p0477 N84-13139
A preliminary study of solar powdered aircraft and associated power trains
[NASA-CR-3699] 04 p0486 N84-13194
Statistical analysis of turbulence data from the NASA Marshall Space Flight Center atmospheric boundary layer tower array facility — statistical correlations for aircraft design
[NASA-CR-3737] 04 p0566 N84-13730
The first peek at China's new fighters for the eighties, the Jian-8 and Jian-12
[AD-A133785] 05 p0625 N84-14113
Suppression of interference flutter by composite tailoring 05 p0632 N84-14155
Operational readiness and its impact on fighter avionics system design 06 p0768 N84-15037

Increasing significance of electromagnetic effects in modern aircraft development 06 p0769 N84-15041
Computational procedures in transonic aerodynamic design
[NLR-MP-82020-U] 06 p0783 N84-15131
Minimal drag for wings with prescribed lift, roll moment and yaw moment
[AD-A134572] 07 p0948 N84-16152
Wake vortices and their aerodynamic alleviation: A review of the literature
[DFVLR-MITT-83-07] 07 p0948 N84-16154
Measurement of unsteady aerodynamic pressures
[DFVLR-MITT-83-08] 07 p0949 N84-16155
SUN WORSHIPER: McCready's Solar Challenger flies over the English Channel
[NASA-TM-77327] 07 p0950 N84-16166
X-29 flight-research program
[NASA-TM-86025] 07 p0951 N84-16168
Effect of structural flexibility on the design of vibration-isolating mounts for aircraft engines
[NASA-TM-85725] 07 p1016 N84-16590
Wave drag as the objective function in transonic fighter wing optimization
[NASA-TP-2265] 08 p1096 N84-17127
Loads and aeroelasticity division research and technology accomplishments for FY 1983 and plans for FY 1984
[NASA-TM-85740] 08 p1097 N84-17135
Trailing edge flow conditions as a factor in airfoil design
[NASA-CR-173294] 08 p1098 N84-17140
Developments in cabin safety and crashworthiness — passenger aircraft 08 p1101 N84-17161
Effect of creep in titanium alloy Ti-6Al-4V at elevated temperature on aircraft design and flight test
[NASA-TM-86033] 09 p1330 N84-18685
A wind tunnel investigation to determine dominant forebody strake design characteristics for an F-15 equipped with conformal fuel tanks
[AD-A136912] 10 p1421 N84-19292
SKETCH: A computer program for plotting a transport airplane configuration in conceptual design
[VTH-LR-388] 10 p1429 N84-19348
An infrastructure for computational fluid dynamics for computer aided design
[NLR-MP-82046-U] 10 p1495 N84-19774
Wingtip vortex propeller
[NASA-CASE-LAR-13019-1] 11 p1602 N84-20495
NASA Aircraft Controls Research, 1983
[NASA-CP-2296] 11 p1615 N84-20567
NASA control research overview
11 p1615 N84-20568
Flying qualities criteria for superaugmented aircraft
11 p1615 N84-20569
Reliability and maintainability assessment factors for reliable fault-tolerant systems 11 p1616 N84-20574
Tools for active control system design
11 p1617 N84-20582
Algorithms for output feedback, multiple-model, and decentralized control problems
11 p1617 N84-20583
Report by the Chairman of the Flight Mechanics Panel
12 p1763 N84-21495
The corrosion-fatigue cooperative testing programme
12 p1763 N84-21497
Report by the Chairman of the Fluid Dynamics Panel
12 p1763 N84-21499
An RAF viewpoint on aircraft structural integrity
12 p1764 N84-21503
Application of computational procedures in aerodynamic design
[NLR-MP-83012-U] 12 p1766 N84-21521
An interactive system for the analysis and constrained minimization of induced drag of aircraft configurations (SAMID)
[NLR-MP-82057-U] 12 p1767 N84-21523
Computational methods for subsonic and transonic aerodynamic design
[AD-B079994] 12 p1767 N84-21524
Measurement of fluid properties using rapid-double-exposure and time-average holographic interferometry
[NASA-TM-83630] 12 p1818 N84-21849
Interactive graphics for quick-geometry modeling
12 p1872 N84-22202
Using a commercial CAD system for simultaneous input to theoretical aerodynamic programs and wind-tunnel model construction 12 p1875 N84-22223
V/STOL concepts in the United States: Past, present, and future
[NASA-TM-85938] 13 p1926 N84-22532
Development and analysis of a STOL supersonic cruise fighter concept
[NASA-TM-85777] 13 p1930 N84-22553
Technology review of flight crucial flight controls
[NASA-CR-172332] 13 p1934 N84-22583

Ilyushin design bureau achievements profiled
14 p2093 N84-23554
Use of a small scale wind tunnel and model shop at Aeronautica Macchi as an industrial tool
14 p2097 N84-23585
Tandem fan applications in advanced STOVL fighter configurations
[NASA-TM-83689] 15 p2261 N84-24579
Fast estimation of state feedback gain for the design of aircraft autopilots
[GU-AERO-8305] 15 p2264 N84-24596
Astronautics and aeronautics, 1976. A chronology
[NASA-SP-4021] 15 p2431 N84-25602
An advanced pitch change mechanism incorporating a hybrid traction drive
[NASA-TM-83709] 16 p2433 N84-25605
Corrosion control requirements for UK military aircraft
16 p2434 N84-25614
Current procurement specification design requirements for US Navy aircraft 16 p2434 N84-25615
Current design requirements for corrosion control on helicopters 16 p2434 N84-25616
Design and manufacturing practices to minimize corrosion in aircraft 16 p2435 N84-25620
V/STOL concepts in the United States: Past, present, and future 16 p2436 N84-25628
Layout considerations and types of V/STOL aircraft
16 p2436 N84-25629
Ground based testing without wind tunnels
16 p2437 N84-25634
Aerodynamics of V/STOL aircraft: Performance assessment 16 p2437 N84-25635
Assessment of aerodynamic performance of V/STOL and STOVL fighter aircraft 16 p2437 N84-25636
An investigation of aerodynamic characteristics of wings having vortex flow using different numerical codes
[NASA-CR-173596] 16 p2438 N84-25639
Computational techniques for hypersonic flows
16 p2442 N84-25666
Safety recommendations A-84-1 through -3
16 p2443 N84-25673
Requirements, applications, and results of strapdown inertial technology to commercial airplanes
16 p2447 N84-25695
Evolution of a heave control system for an amphibious hovercraft
[CAR-8401] 16 p2475 N84-25864
Radomes for flight vehicles
[AD-A140174] 16 p2483 N84-25920
Unsteady flow in turbomachinery: An overview
16 p2488 N84-25961
Numerical computation of vortical flows about wings
16 p2492 N84-25987
Ground and inflight operational effects of APU's
[VFW-30/83-O] 16 p2562 N84-26438
Conference on Aerospace Transparent Materials and Enclosures
[AD-A140701] 17 p2589 N84-26596
Battle damage repair of birdstrike resistant laminated transparencies
[AD-P003185] 17 p2589 N84-26598
Simulation of T-38 aircraft student canopy response to cockpit pressure and thermal loads using MAGNA (Materially and Geometrically Nonlinear Analysis)
[AD-P003231] 17 p2597 N84-26644
Parametric studies of the T-38 student windshield using the finite element of code MAGNA (Materially and Geometrically Nonlinear Analysis)
[AD-P003232] 17 p2597 N84-26645
Current problems and progress in transparency impact analysis
[AD-P003233] 17 p2597 N84-26646
Theoretical evaluation of the structural performance of Swedish fighter aircraft windshields subjected to bird impact
[AD-P003235] 17 p2597 N84-26648
Status of new aerothermodynamic analysis tool for high-temperature resistant transparencies
[AD-P003236] 17 p2598 N84-26649
Low-speed investigation of effects of wing leading- and trailing-edge flap deflections and canard incidence on a fighter configuration equipped with a forward-swept wing
[NASA-TM-85795] 17 p2600 N84-26657
Note on an accident to the Boulton Paul 120 VT 951 delta aircraft
[RAE-STRUCT-ACC-248] 17 p2603 N84-26677
Note on the structural failure of Handley page 88 (E6/48) VX.330
[RAE-STRUCT-ACC-245] 17 p2603 N84-26678
Analysis of lateral and torsional vibration characteristics of beams and shafts with end located rotational masses
[NASA-TM-84593] 17 p2679 N84-27065
USSR report: Transportation
[JPRS-UTR-84-005] 18 p2784 N84-27668
Designer, scientist on projected developments in aviation 18 p2784 N84-27669
Study of aerodynamic technology for single-cruise-engine VSTOL fighter/attack aircraft, phase 1
[NASA-CR-166268] 18 p2788 N84-27693
Application of selected advanced technologies to high performance, single-engine, business airplanes
[NASA-CR-172361] 18 p2792 N84-27719
COSAL: A black-box compressible stability analysis code for transition prediction in three-dimensional boundary layers
[NASA-CR-165925] 18 p2836 N84-28002
Criteria for selecting subjects for the assessment of advanced crew system concepts
[AD-P003354] 18 p2912 N84-28470
Implementation and performance of algorithms on a vector calculator
[SNIAS-832-111-104] 18 p2920 N84-28519
Current development at National Aerospace Laboratory (NLR) and Fokker in computer aided aerodynamic design
[NLR-MP-83031-U] 18 p2922 N84-28530
Aeronautical Engineering: A continuing bibliography with indexes (supplement 175)
[NASA-SP-7037(175)] 19 p2955 N84-28726
Shapes for rotating airfoils
[NASA-CASE-LAR-12396-1] 19 p2956 N84-28732
Study of transonic flow over swept wings
[NASA-CR-173799] 19 p2956 N84-28734
Results of design studies and wind tunnel tests of high-aspect-ratio supercritical wings for an energy efficient transport
[NASA-CR-159332] 19 p2956 N84-28735
Study of aerodynamic technology for single-cruise-engine V/STOL fighter/attack aircraft
[NASA-CR-166270] 19 p2956 N84-28738
Computer program documentation for a subcritical wing design code using higher order far-field drag minimization
[NASA-CR-3457] 19 p2957 N84-28740
Study of aerodynamic technology for single-cruise-engine V/STOL fighter/attack aircraft
[NASA-CR-166269] 19 p2961 N84-28767
Improving the efficiency of smaller transport aircraft
[NASA-TM-85992] 19 p2963 N84-28780
Energy efficient engine: Turbine intermediate case and low-pressure turbine component test hardware detailed design report
[NASA-CR-167973] 19 p2965 N84-28789
Integrated Application of Active Controls (IAAC) technology to an advanced subsonic transpot project-demonstration act system definition
[NASA-CR-165920] 19 p2967 N84-28804
Causes and prevention of structural materials failures in naval environments
[AD-A141560] 19 p2994 N84-28972
Aeroelastic problems caused by tornados and their successful treatment with technologies that result from experiences of precedent intensive technologic modernizing
[MBB-FE-294/S/PUB/110] 19 p3035 N84-29253
Some aerodynamic discoveries and related NACA/NASA research programs following World War 2
[NASA-TM-86258] 20 p3125 N84-29647
Effect of control logic modifications on airstart performance of F100 engine model derivative engines in an F-15 airplane
[NASA-TM-85900] 20 p3130 N84-29679
Review and comparison of discrete and continuous gust methods for the determination of airplane design loads
[NLR-TR-82134-U] 20 p3132 N84-29886
ACEE Composite Structures Technology: Review of selected NASA research on composite materials and structures
[NASA-CP-2321] 20 p3145 N84-29969
Residual-strength tests of L-1011 vertical fin components after 10 and 20 years of simulated flight service 20 p3145 N84-29970
Worldwide flight and ground-based exposure of composite materials 20 p3145 N84-29971
Impact dynamics research on composite transport structures 20 p3146 N84-29975
Postbuckling behavior of graphite-epoxy panels
20 p3146 N84-29976
Studies of noise transmission in advanced composite material structures 20 p3146 N84-29977
Improved methods of vibration analysis of pretwisted, airfoil blades
[NASA-TM-83735] 20 p3200 N84-30329
Interactive aircraft flight control and aeroelastic stabilization
[NASA-CR-173866] 21 p3344 N84-31214
The influence of Computer Aided Design (CAD) on research — aircraft design
[NLR-MP-83026-U] 21 p3467 N84-31984
Oscillations of elastic airplane due to wind gust
21 p3485 N84-32087
Study of double wall panels for use in propeller driven aircraft
[NASA-CR-173847] 21 p3490 N84-32116
Aeronautical Engineering: A Continuing Bibliography with indexes
[NASA-SP-7037(178)] 22 p3529 N84-32343
Turbine blade and vane heat flux sensor development, phase 1
[NASA-CR-168297] 22 p3598 N84-32790
The need for biaxial fatigue testing at A.R.L.
[AD-A143203] 22 p3611 N84-32878
Integrated technology wing design study
[NASA-CR-3586] 23 p3693 N84-33402
Nozzle performance calibration and turbomachinery operational analysis of Turbo-Powered Simulators (TPS) for the NASA-Langley EET propulsion airframe integration investigation
[NASA-CR-165949] 23 p3695 N84-33416
Aircraft tests in the clearance program for the use of a combat aircraft from a runway after damage repair
24 p3848 N84-34404
USSR report: Transportation
[JPRS-UTR-84-027] 24 p3851 N84-34422
ARSSR civil aviation chief on Aerflot's work in Armenia 24 p3851 N84-34423
GROB G-112: Flight testing fulfills expectations
[NASA-TM-77745] 24 p3854 N84-34438
Application of computational fluid dynamics in aircraft design
[AD-A144323] 24 p3854 N84-34441
An approach for estimating the impact of carbon-reinforced plastic 24 p3868 N84-34515
GASP cloud- and particle-encounter statistics and their application to LPC aircraft studies. Volume 1: Analysis and conclusions
[NASA-TM-85835] 24 p3923 N84-34828
Triangular extrapolation
[AD-A144660] 24 p3952 N84-35025

AIRCRAFT DETECTION
Shape recognition and description: A comparative study
[AD-A132842] 05 p0737 N84-14843
Distributed sensor network
[AD-A133250] 06 p0909 N84-15903
Preliminary field tests for detecting flying targets in front of a land background — ground observers
[FOA-C-56033-H2] 08 p1204 N84-17847
Detection of flying targets in front of a land background: Laboratory tests
[FOA-C-56034-H2] 08 p1204 N84-17848
Detection of flying targets in front of a land background: Field tests — human observers
[FOA-C-56035-H2] 08 p1204 N84-17849
DARPA (Defense Advanced Research Projects Agency) air vehicles technology office technical task order contract
[AD-A138887] 14 p2105 N84-23625
Estimation of the flight parameters of low flying aircraft using the radiated noise
[LFD-211] 15 p2259 N84-24569

AIRCRAFT ENERGY EFFICIENCY PROGRAM
U ACEE PROGRAM

AIRCRAFT ENGINES
NT HELICOPTER ENGINES
NT TF-41 ENGINE
Cycloconverter on the all-electric airplane
01 p0011 N84-10069
The CEMS (Comprehensive Engine Management System) IV OAP (Oil Analysis Program) algorithm
[AD-A131055] 01 p0011 N84-10072
Turbine engine exhaust hydrocarbon analysis, tasks 1 and 2
[AD-A131522] 01 p0012 N84-10074
An assessment of the use of antimisting fuel in turbofan engines
[NASA-CR-168081] 01 p0052 N84-10332
Statistics of crack growth of a superalloy under sustained load
[AD-A130395] 01 p0095 N84-10616
Hydrazine APU starter development
[AD-A131575] 02 p0180 N84-11175
Overview of liquid lubricants for advanced aircraft
[NASA-TM-83529] 02 p0199 N84-11296
A critical review of the short crack problem in fatigue
[AD-A131349] 02 p0231 N84-11516
Fatigue behavior of long and short cracks in wrought and powder aluminum alloys
[AD-A131324] 02 p0231 N84-11517
The relations between the numerical control of the engine and other aircraft functions
03 p0315 N84-12062
Engine/airframe interference
03 p0319 N84-12085
Engine-airframe interference effects
03 p0319 N84-12086

Auxiliary power systems with gas turbines
03 p0334 N84-12170
Hot gas APU starter for advanced aircraft applications
03 p0335 N84-12178
A jet fuel starter for lowest system life cycle cost
03 p0335 N84-12179
Cost efficient on board power for airline operation
03 p0335 N84-12180
APU operational efficiency 03 p0335 N84-12181
Ground and inflight operational effects of APU's
03 p0335 N84-12182
Super integrated power unit for fighter aircraft
03 p0335 N84-12183
Implementing microprocessor technology in aircraft electrical power generating system control
03 p0336 N84-12185
150 hour engine test of corrosion inhibited MIL-L-23699C oil
[AD-A131633] 03 p0356 N84-12317
Power effects on the longitudinal characteristics on single-engine propeller-driven aircraft
[ARL-AERO-REPT-157] 04 p0483 N84-13174
Three-dimensional viscous design methodology for advanced technology aircraft supersonic inlet systems
[NASA-TM-83558] 04 p0485 N84-13190
Engine performance monitoring: Rolls-Royce Dart and Allison T56 turbo-prop engines
[ARL-MECH-ENG-NOTE-393] 04 p0486 N84-13191
Work done to determine the source of errors on conditioned pressure transduce signals in the JT9D-7F turbofan engines used on SAA Boeing 747 aircraft
[NIAST-82/78] 04 p0486 N84-13192
The VTX duty cycle developed from T-2C and TA-4J engine usage data
[AD-A133092] 05 p0631 N84-14149
Aerothermal modeling. Executive summary
[NASA-CR-168330] 06 p0790 N84-15152
Broad specification fuels combustion technology program
[NASA-CR-168179] 06 p0812 N84-15283
Determination of the static performance of a Cuyuna cc model UL-430RR engine
[NASA-CR-175354] 07 p0953 N84-16179
Aircraft gas turbine guide
[GE-AEG-607R(10/80)] 07 p0953 N84-16183
Design concepts for low-cost composite engine frames
[NASA-TM-83544] 07 p0954 N84-16186
Reliability growth programs of major weapon systems in the aeronautical systems division
[AD-A134380] 07 p1013 N84-16571
Evaluation of fatigue-creep crack growth in an engine alloy
[AD-A136956] 10 p1460 N84-19536
Investigation of the acoustic characteristics of aircraft/engines operating in a dry-cooled jet engine maintenance test facility 10 p1513 N84-19901
Study of noise-certification standards for aircraft engines. Volume 3: Selection and evaluation of engine-noise-certification concept
[AD-A137805] 11 p1614 N84-20563
Analysis of a topping-cycle, aircraft, gas-turbine-engine system which uses cryogenic fuel
[NASA-TP-2294] 12 p1771 N84-21549
Acoustic emission: A brief introduction to some of its uses in the aero engine industry
[PNR-90172] 13 p1933 N84-22571
High temperature adhesives for structural applications: A review — aircraft engines
[PNR-90171] 13 p1965 N84-22767
Vortex generating flow passage design for increased film-cooling effectiveness and surface coverage — aircraft engine blade cooling
[NASA-TM-83617] 13 p1989 N84-22909
Proven design + new technology = reliability + economy — aircraft engines
[PNR-90199] 13 p1999 N84-22973
NASA/General Electric broad-specification fuels combustion technology program
14 p2107 N84-23638
The NASA broad specification fuels combustion technology program at Pratt and Whitney
14 p2108 N84-23640
General aviation activity and avionics survey
[AD-A139936] 15 p2254 N84-24536
An overview of NASA intermittent combustion engine research
[NASA-TM-83668] 15 p2261 N84-24583
Status of understanding for bearing materials
15 p2342 N84-25060
Status of understanding for seal materials
15 p2343 N84-25062
Safety recommendations A-84-8 and -9, and A-84-17 through -20 16 p2444 N84-25675
Safety recommendation(s) A-84-10 and -11
16 p2444 N84-25676
Comparison of a propfan/turbofan engine by thermodynamic cycle calculation
[ESA-TT-820] 16 p2450 N84-25715
Unsteady flow in turbomachinery: An overview
16 p2488 N84-25961
Ground and inflight operational effects of APU's
[VFW-30/83-O] 16 p2562 N84-26438
The development of military aircraft engine monitoring systems 17 p2585 N84-26570
Engine condition monitoring with aircraft integrated data systems on Lufthansa A310 17 p2585 N84-26571
First experience with ARINC 717 Aircraft Integrated Data Systems (AIDS) on Airbus 310 for maintenance support
17 p2586 N84-26572
Vortex lifted stone ingestion: The influence of stone diameter
[BAE-KRS-N-GEN-276] 17 p2603 N84-26676
Hot corrosion in aircraft engines
[DFVLR-MITT-84-04] 18 p2796 N84-27742
Energy efficient engine high-pressure turbine detailed design report
[NASA-CR-165608] 19 p2965 N84-28788
Energy efficient engine: Turbine intermediate case and low-pressure turbine component test hardware detailed design report
[NASA-CR-167973] 19 p2965 N84-28789
An overview of the NASA rotary engine research program
[NASA-TM-83699] 19 p2965 N84-28791
Improved high temperature resistant matrix resins
[NASA-CR-168210] 19 p2998 N84-28995
Effects of wear metal on lubricant deposition
[AD-A142027] 19 p2999 N84-29008
Mode 2 fatigue crack growth specimen development
[NASA-TM-83722] 19 p3034 N84-29248
Effect of control logic modifications on airstart performance of F100 engine model derivative engines in an F-15 airplane
[NASA-TM-85900] 20 p3130 N84-29879
Nonlinear analysis for high-temperature composites: Turbine blades/vanes 21 p3421 N84-31699
Using gas-turbine power stations with aircraft engines for power-and-heat generation
[AD-A142084] 21 p3434 N84-31786
Perfluoroalkylether substituted phenyl phosphines
[AD-D011122] 22 p3558 N84-32529
Swedish research in high-temperature ceramics, superalloys 22 p3651 N84-33142
Propulsion control experience used in the Highly Integrated Digital Electronic Control (HIDEC) program
[NASA-TM-85914] 23 p3695 N84-33415
Measures for materials conservation in aero-engine construction 23 p3702 N84-33468
Problems presented to engine builders by the recycling of metallic materials — titanium and nickel alloys for aircraft engine parts 23 p3704 N84-33482
Powder metallurgy for the economical manufacture of aeronautical components in titanium alloy
[AD-B076255] 23 p3717 N84-33562
Diesel engine catalytic combustor system — aircraft engines
[NASA-CASE-LEW-12995-1] 23 p3756 N84-33808
The high altitude pollution program (1976 - 1982)
[AD-A144390] 24 p3917 N84-34800

AIRCRAFT EQUIPMENT
NT AIRCRAFT HYDRAULIC SYSTEMS
NT AIRCRAFT TIRES
NT EJECTION SEATS
NT FLYING EJECTION SEATS

The 400-Hz aircraft power-generation systems: Advancing the baseline 01 p0010 N84-10056
Three-phase, high-voltage, high-frequency distributed bus system for advanced aircraft
01 p0010 N84-10058
Secondary electric power generation with minimum engine bleed 01 p0010 N84-10059
Impact and vibration testing of a modified UH-1 crew seat
[AD-A130279] 01 p0117 N84-10760
Effects of integrated maintenance on the definitions of onboard equipments — Mirage 2000 aircraft
03 p0316 N84-12068
Auxiliary Power Systems
[AGARD-CP-352] 03 p0333 N84-12168
Secondary power systems for fighter aircraft experiences today and requirements for a next generation 03 p0334 N84-12171
Small auxiliary power unit design constraints
03 p0334 N84-12172
APU in commercial airline operation
03 p0334 N84-12173
Auxiliary power units for wide-body aircraft
03 p0334 N84-12174
Secondary power supplies for a small single engine combat aircraft 03 p0334 N84-12175
Optimization of engine power offtake by secondary power system design 03 p0335 N84-12177
Hydraulic subsystems flight test handbook
[AD-A132633] 05 p0629 N84-14137
A programmable voice processor for fighter aircraft applications
[AD-A133780] 05 p0668 N84-14393
Mathematical and physical scaling of triggered lightning — lightning effects on aircraft circuitry
[DE84-002480] 05 p0709 N84-14646
DEF STAN 00-18: A family of compatible digital interface standards 06 p0771 N84-15049
A video bus for weapon system integration
06 p0771 N84-15051
Network communications for a distributed avionics system 06 p0771 N84-15052
Avionics fault tree analyzer 06 p0771 N84-15053
Computer graphics techniques for aircraft EMC analysis and design 06 p0771 N84-15055
The lock-on-before-launch weapon delivery and display/control consideration 06 p0772 N84-15056
A practical approach to the design of a new avionic system 06 p0772 N84-15058
Integration of ICNIA into advanced high performance fighter aircraft 06 p0772 N84-15059
Methods for developing the navigation and weapon systems of the Mirage 2000 06 p0774 N84-15068
Concepts for avionic and weapon integration facilities
06 p0774 N84-15070
Advanced high-power generator for airborne applications
[AD-A133290] 06 p0830 N84-15398
Far Infrared Radiometric Spectrometer (FIRRS)
[AD-A133552] 06 p0847 N84-15527
Reliability growth programs of major weapon systems in the aeronautical systems division
[AD-A134380] 07 p1013 N84-16571
A cost prediction model for electronic systems flight test costs
[AD-A135598] 09 p1255 N84-18195
Science of integration
[AD-A135590] 09 p1364 N84-18906
Evaluation of installation of Lightweight Doppler Navigation System (LDNS) in Iroquois UH-1H aircraft
[AD-A137815] 11 p1605 N84-20510
Electroluminescent formation lights for HC-130 P/N special operations. 1: Flight test candidates
[AD-A137662] 11 p1606 N84-20516
Evaluation of automatic test equipment for use with the Army helicopter improvement program
[AD-A137647] 11 p1607 N84-20523
A Generalized Escape System Simulation (GESS) computer program: GESS user's guide, version 2, volume 1
[AD-A138844] 13 p1928 N84-22545
Preliminary experience with a stereoscopic video system in a remotely piloted aircraft application
[NASA-TM-84909] 13 p1931 N84-22557
First stage of equipment for aircraft Do 28 of DFVLR as a research aircraft for icing and first research results
[DFVLR-FB-83-40] 15 p2259 N84-24571
Electrical subsystems flight test handbook
[AD-A139783] 15 p2260 N84-24576
Emulation of a voice interactive Doppler navigation set
[AD-A140204] 16 p2446 N84-25687
Advances in strapdown sensors
16 p2446 N84-25693
Overview of HUD (Head-Up Display) optical designs
[AD-P003157] 17 p2588 N84-26588
Optical interactions of aircraft windscreens and HUDs (Head-Up Displays) producing diplopia
[AD-P003159] 17 p2588 N84-26590
Physical integration of the HUD (Head-Up Display)
[AD-P003163] 17 p2589 N84-26594
Transparency technology needs for military aircraft
[AD-P003191] 17 p2590 N84-26604
Testing polycarbonate for utilization in the production of transparent enclosures
[AD-P003192] 17 p2591 N84-26605
Degradation of the bird impact resistance of polycarbonate
[AD-P003193] 17 p2591 N84-26606
The effect of accelerated ultra violet weathering on the rain erosion resistance of coated aircraft transparencies
[AD-P003194] 17 p2591 N84-26607
Service-life induced failure of bird impact resistant windshields
[AD-P003195] 17 p2591 N84-26608
The effects of moisture on fracture toughness and thermal relaxation of stretched acrylic plastics
[AD-P003197] 17 p2591 N84-26610
Heat resistant copolyester-carbonate transparent plastics
[AD-P003205] 17 p2593 N84-26618

The need for application of dynamic mechanical analysis in the evaluation of interlayer materials
[AD-P003211] 17 p2594 N84-26624
Aircraft transparency testing methodology
[AD-P003213] 17 p2594 N84-26626
Visual perception through windscreens: Effects of minor occlusions and haze on operator performance
[AD-P003223] 17 p2596 N84-26636
The reduction of life-cycle costs through continuing acrylic maintenance
[AD-P003224] 17 p2596 N84-26637
The wiper abrasion and rain erosion resistance of transparent materials and coatings for aircraft glazing
[AD-P003227] 17 p2596 N84-26640
Proposed crashworthiness requirements for the Australian Basic Trainer
[AD-A140850] 17 p2603 N84-26682
Command flight path display, phase 1 and 2
[AD-A140870] 17 p2611 N84-26711
Command flight path display, phase 1 and 2. Appendices A - E
[AD-A140871] 17 p2611 N84-26712
Hygrothermal effects in continuous fibre reinforced composites. Part 1: Thermal and moisture diffusion in composite materials
[AD-A128228] 18 p2810 N84-27837
Stores weight and inertia system update: Cable attachment redesign, flexible length parameter calibration, data sheet revision
[AD-A141087] 19 p2963 N84-28781
Decision analysis model for passenger-aircraft fire safety with application to fire-blocking of seats
[AD-A142477] 20 p3127 N84-29859
Design and development of an automatically controlled variable-load energy absorber
[AD-A142683] 20 p3128 N84-29868
Simulated crash decelerations in a light aircraft cabin
[AD-A142806] 21 p3326 N84-31102
Annual meeting of the Pyrotechnics and Explosives Applications Section on the American Defense Preparedness Association
[AD-A143157] 21 p3373 N84-31406
Regulation of mechanical characteristic of iron-powder electromagnetic brake 21 p3379 N84-31444
Uniform mass distribution properties and body size appropriate for the 50 percentile male aircrewmember, 1980 - 1990
[AD-A142946] 21 p3461 N84-31948
Position and restraint system for aircrewman
[AD-D011058] 22 p3532 N84-32364
Low temperature evaluation of advanced technology hydraulic system (8,000 psi)
[AD-A143389] 22 p3538 N84-32396
Piezoelectric deicing device
[NASA-CASE-LEW-13773-2] 22 p3597 N84-32782
Constant speed drive with compensation using differential gears
[AD-D011156] 23 p3756 N84-33812
Autopilot performance evaluation Tornado experience and future applications 24 p3849 N84-34407
Evaluation of aircraft battery charge, discharge, and analyzation requirements for ground support equipment
[AD-A144243] 24 p3897 N84-34678

AIRCRAFT FUEL SYSTEMS

Antimisting kerosene: Base fuel effects, blending and quality control techniques
[NASA-CR-174509] 07 p0980 N84-16351
Atomization and combustion performance of antimisting kerosene and jet fuel
[NASA-CR-174507] 07 p0980 N84-16353
Fuel system research and technology: An overview of the NASA program 14 p2108 N84-23641
In-flight atmospheric and fuel tank temperature measurements 14 p2108 N84-23643
Analysis of fuel system technology for broad property fuels 14 p2108 N84-23644
Fuel system design concepts for broad property fuels 14 p2109 N84-23645
Alternative fuel deposit formation 15 p2289 N84-24735
Safety recommendation A-84-7 16 p2443 N84-25674
Aircraft fuel tank inerting system
[AD-A141863] 19 p2964 N84-28785

AIRCRAFT FUELS

Low temperature behavior of fuels in simulated aircraft tanks
[AD-A130267] 01 p0052 N84-10336
Temperature histories of commercial flights at severe conditions from GASP data
[NASA-CR-168247] 02 p0175 N84-11152
Investigation of sources, properties and preparation of distillate test fuels
[NASA-CR-168227] 04 p0508 N84-13332
Handbook of aviation fuel properties
[AD-A132106] 04 p0509 N84-13338
Alternative fuels for general aviation
[GPO-27-618] 08 p1139 N84-17409
Emission FTIR analyses of thin microscopic patches of jet fuel residue deposited on heated metal surface
[NASA-CR-168331] 08 p1139 N84-17410
Experimental results for the rapid determination of the freezing point of fuels
[NASA-CR-168305] 09 p1290 N84-18419
Electrostatic charging test for aviation fuel filters
[AD-A136986] 10 p1433 N84-19366
Heat transfer and thermal stability of alternative aircraft fuels, volume 1
[AD-A137404] 10 p1469 N84-19597
Properties of fuels employed in a gas turbine combustor program
[AD-A136663] 10 p1470 N84-19600
Analysis of a topping-cycle, aircraft, gas-turbine-engine system which uses cryogenic fuel
[NASA-TP-2294] 12 p1771 N84-21549
Industrial hygiene data for F-16 aircraft refueling inside closed aircraft shelters. Supplementary
[AD-A136364] 12 p1865 N84-22154
Fuel property effects on USAF gas turbine engine combustors and afterburners 14 p2107 N84-23635
Fuel property effects on USN gas turbine combustors 14 p2107 N84-23636
Combustion Problems in Turbine Engines
[AGARD-CP-353] 15 p2289 N84-24732
Aviation fuel specification requirements: Their significance and future trends 15 p2289 N84-24733
Research on aviation fuel instability 15 p2289 N84-24734
Alternative fuel deposit formation 15 p2289 N84-24735
Combustor technology for broadened-properties fuels 15 p2289 N84-24736
Fuel effects on gas turbine combustion systems 15 p2289 N84-24737
Fuel character effects on performance of small gas turbine combustion systems 15 p2290 N84-24738
U.S. Army alternative gas-turbine fuels research: MERADCOM 15 p2290 N84-24739
Study of effects of fuel properties in turbine-powered business aircraft
[NASA-CR-174627] 16 p2473 N84-25854
Properties of aircraft fuels and related materials
[AD-A141068] 19 p3001 N84-29019
Summary of recent NASA propeller research
[NASA-TM-83733] 22 p3529 N84-32344
Method of making compartmented, filament wound, one-piece aircraft fuel tanks
[AD-D011144] 22 p3534 N84-32376
Decision recommendation board (DRB) report. Transition of shale JP-4 to the operational validation phase
[AD-A144504] 24 p3890 N84-34833

AIRCRAFT GUIDANCE

Investigation of air transportation technology at MIT 02 p0168 N84-11104
Lateral runway approach guidance using Loran-C 02 p0168 N84-11105
On-board near-optimal climb-dash energy management 07 p0943 N84-16116
A comparison of two position estimate algorithms that use ILS localizer and DME information. Simulation and flight test results
[NASA-TP-2281] 08 p1102 N84-17165
NASA Aircraft Controls Research, 1983
[NASA-CP-2296] 11 p1615 N84-20567
Mixing 4D-equipped and unequipped aircraft in the terminal area 11 p1616 N84-20577
Application of fuel/time minimization techniques to route planning and trajectory optimization 11 p1616 N84-20578
VTOL shipboard letdown guidance system analysis
[NASA-CR-166519] 16 p2451 N84-25716
Fuel conservative guidance concept for shipboard landing of powered-lift aircraft
[NASA-TM-85971] 21 p3344 N84-31215
The microwave landing system (MLS)
[NLR-MP-83070-U] 23 p3692 N84-33399
Reference systems for the evaluation of dead-reckoning navigation equipment 24 p3848 N84-34406

AIRCRAFT HAZARDS

Advanced Ultra-Violet (UV) aircraft fire detection system. Volume 3: Ground Support Equipment (GSE) for system check-out
[AD-A130298] 01 p0006 N84-10039
Analysis of general aviation single-pilot IFR incident data obtained from the NASA Aviation Safety Reporting System 03 p0312 N84-12033
Correlation of laboratory-scale fire test methods for seat blocking layer materials with large-scale test results
[AD-A131666] 03 p0328 N84-12138
Aircraft hazard assessment from a clear-air radar and meteorological tower study of gravity wave events — effect on airspeed
[PB83-257139] 05 p0710 N84-14650
A systematic characterization of the effects of atmospheric electricity on the operational conditions of aircraft 06 p0776 N84-15086
Integrated aircraft fuel tank inerting and compartment fire suppression system. Volume 2: Evaluation of nitrogen-enriched air as a fire suppressant
[AD-A134883] 08 p1101 N84-17157
Status for knowledge: Meteorological affected icing on aircraft in clouds
[DFVLR-MITT-83-12] 08 p1191 N84-17763
Study of aerospace materials, coatings, adhesions and processes. Aircraft icing processes
[AD-A139743] 15 p2257 N84-24557
System safety and the Coast Guard lighter-than-air system project
[AD-A139807] 15 p2258 N84-24564
First stage of equipment for aircraft Do 28 of DFVLR as a research aircraft for icing and first research results
[DFVLR-FB-83-40] 15 p2259 N84-24571
Investigation of the detectability and lifetime of gust fronts and other weather hazards to aircraft
[AD-A141552] 19 p3058 N84-29404
Cabin air quality
[GPO-29-522] 20 p3263 N84-30702
A laboratory study of aircraft precipitation static charging
[AD-A142561] 21 p3443 N84-31848
Lightning swept-stroke attachment patterns and flight conditions for storm hazards 1981
[NASA-TM-86279] 22 p3532 N84-32365
A research study of the assessment of escape impairment by irritant combustion gases in postcrash aircraft fires
[FAA-CT-84-16] 22 p3533 N84-32366
Airport safety technology: Washington National Airport
[GPO-34-406] 23 p3696 N84-33423

AIRCRAFT HYDRAULIC SYSTEMS

Low temperature evaluation of advanced technology hydraulic system (8,000 psi)
[AD-A143389] 22 p3538 N84-32396

AIRCRAFT INDUSTRY

Develop a normative or descriptive model of the international/domestic civil aviation industry, volume 3
[AD-A131878] 03 p0314 N84-12051
Develop a normative or descriptive model of the international/domestic civil aviation industry, volume 2
[AD-A131877] 03 p0314 N84-12052
Develop a normative or descriptive model of the international/domestic civil aviation industry. Volume 1: Executive summary
[AD-A131876] 03 p0314 N84-12053
Application of computational procedures in aerodynamic design 03 p0318 N84-12078
A microcomputer program package of the USAF stability and control DATCOM
[AD-A132143] 04 p0487 N84-13199
Probing into the secret of the Chinese Air Force
[AD-A135960] 09 p1249 N84-18157
For the sacred air space of our homeland
[AD-A137189] 11 p1599 N84-20476
Cost effectiveness of reliability in the aerospace industry
[PNR-90187] 13 p1999 N84-22971
Status report of the programs — of MBB 14 p2105 N84-23626
The MBB business activities' report 14 p2247 N84-24494
Competitive assessment of the U.S. Civil aircraft industry
[PB84-154913] 15 p2419 N84-25525
Design and manufacturing practices to minimize corrosion in aircraft 16 p2435 N84-25620
Guide to Canadian aerospace related industries
[AD-A140606] 17 p2598 N84-26650
An analysis of national aviation policy with respect to America's strategic airlift capability
[AD-A141308] 18 p2946 N84-28679
Integrated Computer-Aided Manufacturing (ICAM) architecture. Part 3, Volume 6: Composite information model of 'Manufacture product' (MFG1)
[AD-A143072] 21 p3466 N84-31973
Contribution of the industry to a better adaptation of helicopters to military requirements
[SNIAS-841-210-102] 23 p3687 N84-33367
Civil aviation officials review ministerial concerns, goals 23 p3687 N84-33369
Towards a cycle without loss: Cobalt in the aircraft industry 23 p3702 N84-33469

ICAM (Integrated Computer Aided Manufacturing) conceptual design for computer-integrated manufacturing. Volume 4, part 5, task D: Quality assurance/quality, control/technical requirement/tasks, quality assurance modeling and analysis, architecture for product assurance, (TTD)
[AD-A144691] 24 p3948 N84-34999

AIRCRAFT INSTRUMENTS
NT ALTIMETERS
NT ANEMOMETERS
NT APPROACH INDICATORS
NT ATTITUDE INDICATORS
NT AUTOMATIC PILOTS
NT FLIGHT RECORDERS
NT GYROCOMPASSES
NT HOT-WIRE ANEMOMETERS
NT PLAN POSITION INDICATORS
NT POSITION INDICATORS
NT RADIO ALTIMETERS
NT RADIO DIRECTION FINDERS
NT SOLAR COMPASSES
NT TACHOMETERS

FINDS: A fault inferring nonlinear detection system. User's guide
[NASA-CR-172199] 02 p0176 N84-11156
Pilot response with conventional displays
03 p0313 N84-12040
Helicopter In-flight Monitoring System second generation (HIMS 2)
[AD-A132498] 04 p0483 N84-13179
Simulator study of pilot-aircraft-display system response obtained with a three-dimensional-box pictorial display
[NASA-TP-2122] 04 p0484 N84-13182
A concept for reducing oceanic separation minima through the use of a TCAS-derived CDTI
[NASA-CR-172258] 07 p0952 N84-16177
In-trail dynamics of multiple CDTI-equipped aircraft queues
[NASA-TM-85699] 07 p0953 N84-16178
CDTI target selection criteria
[NASA-CR-3776] 08 p1104 N84-17178
Calibration of meteorological measurements made by NOAA (National Oceanic and Atmospheric Administration) WP3D aircraft, 1983
[PB84-127463] 10 p1541 N84-20099
An automated stall-speed warning system
[NASA-TM-84917] 11 p1607 N84-20520
Dynamic assessment of B-52B-008 carrier aircraft for the revised Space Shuttle solid rocket booster decelerator subsystem drop test vehicle
[NASA-CR-170989] 12 p1779 N84-21606
Advances in strapdown inertial systems: Introduction and overview 16 p2446 N84-25692
The project Cockpit Instruments and Human Engineering as part of a joint research program on aircraft guidance and control at the Technical University of Brunswick
[ESA-TT-783] 16 p2539 N84-26300
The NESDIS-SEL Lear aircraft instruments and data recording system
[NOAA-TR-NESDIS-9] 17 p2607 N84-26698
Heads up display
[NASA-CASE-LAR-12630-1] 18 p2795 N84-27733
The application of fiber optics in aircraft instrumentation: Technology assessment
[NLR-TR-83048-U] 23 p3694 N84-33409
System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] 24 p3855 N84-34443

AIRCRAFT LANDING
NT CRASH LANDING
NT DITCHING (LANDING)

Simulation and evaluation of the Sh-2F helicopter in a shipboard environment using the interchangeable cab system
[NASA-TM-84387] 02 p0180 N84-11176
Simulator study of flight characteristics of a large twin-fuselage cargo transport airplane during approach and landing
[NASA-TP-2183] 03 p0337 N84-12190
Flight-test of the glide-slope track and flare-control laws for an automatic landing system for a powered-lift STOL airplane
[NASA-TP-2126] 04 p0487 N84-13198
Aircraft operations from airfields with special unconventional characteristics 06 p0776 N84-15085
Influence of windshear on flight safety
06 p0776 N84-15088
Computer based landing signal officer carrier aircraft recovery model
[AD-A133507] 06 p0894 N84-15808
Evaluation and analysis of experience reports concerning wind shear problems
[DFVLR-FB-83-19] 07 p0949 N84-16159
Results of a slant range visibility field test in Munich-Reim
[DFVLR-MITT-83-09] 08 p1102 N84-17169
Establishment and discontinuance criteria for precision landing systems
[AD-A135606] 09 p1254 N84-18185
Low-speed handling qualities of advanced transport aircraft: A comparison of ground-based and in-flight simulator experiments
[NLR-TR-82041-U-REV] 09 p1258 N84-18212
Predictor displays as training aids in carrier landings
[AD-A136643] 10 p1433 N84-19367
Part-task training strategies in simulated carrier landing final approach training
[AD-A136670] 10 p1549 N84-20156
Pilot behavior models for LSO (Landing Signal Officer) training systems
[AD-A135823] 10 p1552 N84-20169
Evaluation of instrument landing system DDM (Difference in Depth of Modulation) calibration accuracies
[AD-A138301] 12 p1768 N84-21533
Ministry official on improving all-weather aviation capabilities 14 p2093 N84-23552
Flight simulation investigations for the problem of flyability of noise optimal approach and takeoff paths
[IFD-3/83] 14 p2221 N84-24329
Tandem fan applications in advanced STOVL fighter configurations
[NASA-TM-83689] 15 p2261 N84-24579
Physiological assessment of aircraft pilot workload in simulated landing and simulated hostile threat environments
[AD-A140469] 16 p2538 N84-26297
In-flight investigation of landing approach flying qualities of transport aircraft with relaxed static stability
[DFVLR-FB-84-11] 17 p2610 N84-26706
New world records set by AN-72 transport
18 p2784 N84-27672
FAA (Federal Aviation Administration) air traffic activity FY 1983
[AD-A142493] 20 p3127 N84-29861
Fuel conservative guidance concept for shipboard landing of powered-lift aircraft
[NASA-TM-85971] 21 p3344 N84-31215
Aircraft landing dynamics facility carriage weld test program
[NASA-TM-85802] 22 p3603 N84-32827
The microwave landing system (MLS)
[NLR-MP-83070-U] 23 p3692 N84-33399
In-flight investigation of longitudinal flying qualities criteria
[AD-A143614] 23 p3695 N84-33419
Airport safety technology: Washington National Airport
[GPO-34-406] 23 p3696 N84-33423
Radar cross section measurements of wingtip vortices
23 p3775 N84-33934

AIRCRAFT MAINTENANCE
Aircraft maintenance and fire
[GPO-24-247] 02 p0169 N84-11112
RIM-AIR (Repairable Integrated Model for aviation) study
[AD-A131141] 02 p0169 N84-11113
The effect of aircraft age and flying hours on maintenance costs
[AD-A131534] 02 p0169 N84-11114
A survey of robotic technology
[AD-A130999] 02 p0269 N84-11762
Models of maintenance resources interaction: Peacetime operations
[AD-A131379] 03 p0457 N84-13011
Extending the lifetime of operational systems through corrosion tracking and prediction
[AD-A133931] 05 p0625 N84-14112
The aircraft availability model: Conceptual framework and mathematics
[AD-A132927] 05 p0626 N84-14115
Enhancement and verification of the Navy CASEE model (Calendar year 1982 task)
[AD-A133077] 05 p0730 N84-14793
First level integrated maintenance in weapons systems 06 p0771 N84-15054
Job attitudes toward the new maintenance concept of the airway facilities service
[AD-A133282] 06 p0891 N84-15793
A Q-GERT analysis of the effect of improved automatic testing on F-16 aircraft availability
[AD-A134280] 07 p0945 N84-16128
Development of a stable epoxy resin system for composite repair
[AD-A135390] 08 p1137 N84-17395
Preventive maintenance intervals for components of the F-15/F100 aircraft engine
[AD-A135637] 09 p1249 N84-18156
Fuel system O-ring leaks on post P.D.M. (Programmed Depot Maintenance) C-5A aircraft
[AD-A137885] 11 p1606 N84-20519
Evaluation of automatic test equipment for use with the Army helicopter improvement program
[AD-A137647] 11 p1607 N84-20523
Corrosion in large aircraft: Management of the problem 11 p1631 N84-20666
Enhancement and verification of the Navy CASEE (Comprehensive Aircraft Support Effectiveness Evaluation) model (calendar year 1983 task)
[AD-A138516] 12 p1764 N84-21505
Aircraft accident report: Sierra Pacific Airlines, DHC-6-300, N361V, Hailey, Idaho, February 15, 1983
[PB84-910403] 12 p1767 N84-21525
Future engine technologies and their effect on maintenance — aircraft engines
[PNR-90190] 14 p2110 N84-23651
Naval aviation IMA repair capability: A readiness to resources approach
[AD-A140465] 16 p2434 N84-25612
Workshop on Requirements for Aircraft Corrosion Control
[AGARD-R-714] 16 p2434 N84-25613
US Navy corrosion control maintenance
16 p2435 N84-25619
Corrosion control maintenance practices for Canadian aircraft 16 p2435 N84-25621
Methodology for assessment of corrosion costs
16 p2435 N84-25623
Safety recommendations A-84-8 and -9, and A-84-17 through -20 16 p2444 N84-25675
Safety recommendations A-84-14 and -15
16 p2444 N84-25678
Access to maintenance via Aircraft Integrated Data System (AIDS): Future aspects of the expanded AIDS
17 p2585 N84-26567
Intelligent flight data recorder: A contribution to on-condition maintenance and optimization of operation
17 p2585 N84-26568
Operational loads on B-747 aircraft: Design assumptions, actual experience and maintenance aspects 17 p2585 N84-26569
Swedish Air Force maintenance programme for aged transparent enclosures for jet trainer and jet fighter aircraft
[AD-P003208] 17 p2593 N84-26621
The reduction of life-cycle costs through continuing acrylic maintenance
[AD-P003224] 17 p2596 N84-26637
Operational loads on B-747 aircraft: Design assumptions, actual experience and maintenance aspects
[NLR-MP-83051-U] 17 p2606 N84-26697
B-1B Avionics/Automatic test equipment: Maintenance queueing analysis
[AD-A141175] 18 p2795 N84-27736
Aircraft Spare Stockage Methodology (aircraft spares) study
[AD-A142259] 19 p2955 N84-28730
High-performance, low-energy-curing resins
[AD-A141524] 19 p2998 N84-29000
Durability methods development, volume 7
[AD-A142400] 20 p3126 N84-29865
T700 engine case study report. IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A143104] 21 p3343 N84-31211
On-line task analyses in maintenance simulation
[AD-P003452] 21 p3509 N84-32229
Artificial Intelligence-Robotics applications to Navy aircraft maintenance
[AD-A143219] 22 p3529 N84-32345
AVCAL (Aviation Consolidated Allowance) restoration program and aircraft material condition
[AD-A144045] 23 p3687 N84-33366
Damaged radar radome repair device
[AD-D011158] 23 p3712 N84-33528
Improvements in work of aircraft repair plant no. 402
24 p3851 N84-34425

AIRCRAFT MANEUVERS
Control of advanced fighter aircraft
01 p0014 N84-10089
Evaluation of the effects of lateral and longitudinal aperiodic modes on helicopter instrument flight handling qualities
[AD-A134116] 05 p0629 N84-14135
The effect of superposing ripple loading of maneuver load cycles
[AD-A132653] 06 p0786 N84-15148
A helicopter flight investigation of roll-control sensitivity, damping and cross coupling in a low altitude lateral maneuvering task
[NASA-TM-84376] 07 p0959 N84-16216
Wave drag as the objective function in transonic fighter wing optimization
[NASA-TP-2265] 08 p1096 N84-17127

Body and canard effects on an attached-flow maneuver wing at Mach 1.62
[NASA-TP-2249] 09 p1250 N84-18163
An open loop missile evasion algorithm for fighters
[AD-A136834] 10 p1428 N84-19339
Simulation analysis and derivation of accuracy requirements for future terminal area navigation. Part 1: Single aircraft analysis
[BMFT-FB-W-83-035-PT-1] 12 p1768 N84-21535
Simulation analysis and derivation of accuracy requirements for future terminal area navigation. Part 2: Multi aircraft analysis
[BMFT-FB-W-83-036-PT-2] 12 p1769 N84-21536
Development and flight test evaluation of an analytical model of the air-to-air tracking task
[AD-A138058] 12 p1772 N84-21555
Evaluation of a digital flight controller for a flexible-fighter aircraft
[AD-A138269] 12 p1772 N84-21558
A hazard in aerobatics: Effects of G-forces on pilots
[FAA-AC-91-61] 12 p1865 N84-22152
V/STOL maneuverability and control
[NASA-TM-85939] 13 p1935 N84-22584
Device 2E6 (ACMS) Air Combat Maneuvering Simulator instructor console review
[AD-A138972] 13 p1935 N84-22587
High-gain error actuated flight control systems for continuous linear multivariable plants
[AFIT/GAE/EE/82D-1] 15 p2254 N84-24534
System modeling and identification of equivalent systems with and without compensating time delay for control-augmented aircraft
[DFVLR-FB-83-36] 15 p2259 N84-24570
V/STOL maneuverability and control
16 p2437 N84-25632
Improved pilot model for application to a computer flight testing program for helicopters
[NLR-MP-83052-U] 20 p3129 N84-29869
Extensions and modifications to the ARL point-performance program
[AD-A142078] 21 p3328 N84-31113
Training the multiple-aircraft combat environment
[AD-P003495] 21 p3514 N84-32261
Direct lift command blending
[AD-D011178] 23 p3696 N84-33420

AIRCRAFT MODELS
A dynamic model for aircraft poststall departure
01 p0012 N84-10077
Design of a lateral ride comfort control system for STOL aircraft
[UTIAS-TN-247] 07 p0950 N84-16165
A modified lifting line theory for wing-propeller interference
[NASA-CR-173324] 09 p1252 N84-18171
Noise-reduction measurements of stiffened and unstiffened cylindrical models of an airplane fuselage
[NASA-TM-85716] 09 p1386 N84-19052
F-14 scale model measurements. Part 1: External response
[DE84-008201] 15 p2258 N84-24562
System modeling and identification of equivalent systems with and without compensating time delay for control-augmented aircraft
[DFVLR-FB-83-36] 15 p2259 N84-24570
Design and implementation of input signals for identification of pilot/aircraft models
[DFVLR-FB-84-08] 16 p2449 N84-25709
Flight mechanics test with a restricted flying aircraft model in a wind tunnel
[DFVLR-FB-84-13] 18 p2789 N84-27701
Health risks associated with aircraft model type among US Navy pilots
[AD-P003270] 18 p2907 N84-28435
Aerodynamic feasibility for airborne retrieval of a remotely piloted vehicle
[AD-A143695] 23 p3693 N84-33404

AIRCRAFT NOISE
NT JET AIRCRAFT NOISE
NT SONIC BOOMS
Helicopter noise survey conducted at Norwood, Massachusetts on April 27, 1983
[AD-A131053] 01 p0140 N84-10922
Influence of physical and air traffic conditions on aircraft noise emission to the ground
[MPIS-11/1982] 02 p0177 N84-11159
YC-15 EBF (Externally-Blown Flap) STOL (Short Takeoff and Landing) airplane fuselage and interior noise environment
[AD-A131462] 02 p0178 N84-11164
Helicopter noise survey performed at Parker Center, Pasadena, and Anaheim, California, on February 10-14, 1983
[AD-A130962] 02 p0288 N84-11887
Noise emission by helicopters
03 p0457 N84-13007
Continued research on selected parameters to minimize community annoyance from airport noise
[NASA-CR-174607] 04 p0559 N84-13688
Aeroacoustics: Ten Years of Research — conferences
[VKI-LS-1983-05] 06 p0767 N84-15025
Research towards and development of aerospace vehicle noise certification with emphasis on propeller aircraft and helicopters 06 p0767 N84-15026
Helicopter noise 06 p0767 N84-15027
Study of noise-certification standards for aircraft engines. Volume 2: Procedures for measuring far field sound pressure levels around an outdoor jet-engine test stand
[AD-A133408] 06 p0791 N84-15158
Airport noise control strategies
[AD-A133137] 06 p0908 N84-15900
Phase averaged measurements of the coherent structure of a mach number 0.6 jet
[NASA-CR-175359] 07 p0945 N84-16134
Noise levels and data analyses for small prop-driven aircraft
[AD-A134598] 07 p0952 N84-16175
Noise of the SR-6 propeller model at 2 deg and 4 deg angles of attack
[NASA-TM-83515] 07 p1069 N84-16946
Investigation of fuselage acoustic treatment for a twin-engine turboprop aircraft in flight and laboratory tests
[NASA-TM-85722] 07 p1069 N84-16947
La Recherche Aerospatiale bimonthly bulletin, number 1983-3, 214/May-June
[ESA-TT-822] 08 p1226 N84-18014
Aircraft and background noise annoyance effects
[NASA-TM-85744] 09 p1386 N84-19051
In-flight acoustic testing techniques using the YO-3A Acoustic Research Aircraft
[NASA-TM-85895] 10 p1427 N84-19334
Evaluation of ride quality prediction methods for helicopter interior noise and vibration environments
[NASA-TP-2261] 10 p1549 N84-20155
Strategies for and validity of noise monitoring in the vicinity of civilian airfields and army installations
[AD-A137780] 11 p1729 N84-21279
Initial experiments on profile vortex interaction — helicopter noise
[MPIS-6/1983] 12 p1766 N84-21520
Field evaluation of proposed ICAO annex 16 takeoff noise certification procedure for propeller-driven airplanes not exceeding 5700 kg
[DFVLR-FB-83-34] 12 p1901 N84-22378
Aircraft noise legislation: An overkill
[PNR-90167] 13 p2010 N84-23037
Aeroacoustic noise measurements in wind tunnel
14 p2097 N84-23584
Flight simulation investigations for the problem of flyability of noise optimal approach and takeoff paths
[IFD-3/83] 14 p2221 N84-24329
A comparison of measured take-off and flyover sound levels for several general aviation propeller-driven aircraft
[AD-A139901] 15 p2404 N84-25429
Noise measurement flight test: Data/Analyses Bell 222 twin jet helicopter
[AD-A139906] 15 p2404 N84-25430
The compressible aerodynamics of rotating blades using an acoustic formulation 16 p2442 N84-25670
Noise generated by a propeller in a wake
[NASA-TM-85794] 16 p2553 N84-26382
Airport noise and land use compatibility at downstate Illinois airports
[PB84-177377] 17 p2611 N84-26716
Airfield Noise Evaluation Program (ANEP)
[VTH-LR-370] 17 p2725 N84-27342
Flight Track and Aircraft Noise Monitoring System (FANAMOS)
[NLR-MP-83043-U] 17 p2725 N84-27343
Acoustic flight testing of advanced design propellers on a JetStar aircraft 18 p2783 N84-27661
Preliminary experimental and theoretical results on cantilever vibration absorbers applied for aircraft cabin vibration
[SPER-8390] 18 p2794 N84-27730
Theoretical and experimental results of dynamic behavior of periodically stiffened cylindrical shell
18 p2794 N84-27731
Experimental modal analysis of a partial full-scale fuselage of turboprop aircraft — vibration modes
18 p2794 N84-27732
Noise path identification using face-to-face and side-by-side microphone arrangements
[NASA-CR-173708] 18 p2928 N84-28569
Design of incident field B-dot sensor for the nose boom of NASA F-106B aircraft
[AD-A141765] 19 p2984 N84-28787
Community reaction to impulsive noise: A 10-year research summary
[AD-A141762] 19 p3052 N84-29369
Area equivalent method VISICALC (trade name). Users' guide
[AD-A141430] 19 p3084 N84-29572
Role of empirical methods 19 p3097 N84-29670
Priority for empirical methods development
19 p3097 N84-29671
Facility requirements for helicopter noise research
19 p3097 N84-29672
High-speed noise of helicopter rotors
19 p3097 N84-29673
Psychoacoustic considerations for helicopter noise quantification: Metrics, human response and criteria
19 p3098 N84-29675
State of the art: Design for noise I
19 p3099 N84-29682
State of the art: Design for noise II
19 p3099 N84-29683
A designer's viewpoint: Requirements for reducing helicopter noise 19 p3099 N84-29684
General aviation aircraft interior noise problem: Some suggested solutions
[NASA-CR-173784] 19 p3099 N84-29685
Propeller aircraft interior noise model
[NASA-CR-3813] 19 p3099 N84-29687
Simulation procedure for the calculation of aircraft noise 19 p3100 N84-29692
Studies of noise transmission in advanced composite material structures 20 p3146 N84-29977
Active attenuation of propeller blade passage noise
[NASA-CR-172386] 20 p3290 N84-30686
Study of double wall panels for use in propeller driven aircraft
[NASA-CR-173847] 21 p3490 N84-32116
Prediction of light aircraft interior sound pressure level using the room equation
[NASA-CR-173840] 21 p3490 N84-32117
Analytical model of the structureborne interior noise induced by a propeller wake
[NASA-CR-172381] 21 p3490 N84-32119
Analysis of the effect on combustor noise measurements of acoustic waves reflected by the turbine and combustor inlet
[NASA-TM-83760] 21 p3491 N84-32122
Analytical investigation of synchrophasing as a means of reducing aircraft interior noise
[NASA-CR-3823] 21 p3491 N84-32123
Annoyance caused by propeller airplane flyover noise
[NASA-TP-2356] 21 p3491 N84-32124
Application of stiffened cylinder analysis to ATP interior noise studies
[NASA-CR-172384] 22 p3652 N84-33147
Noise measurement flight test: Data-analyses Aerospatiale SA-365N Dauphin 2 helicopter
[AD-A143229] 22 p3652 N84-33151
An experimental investigation of the effect of boundary layer refraction on the noise from a high-speed propeller
[NASA-TM-83764] 23 p3821 N84-34230
The effect of aircraft with noise certificates according to class ICAO Annex 16 on the determination of noise protection domains following the law on protection against aircraft noise
[MPIS-117/1983] 23 p3821 N84-34234

AIRCRAFT NOISE PREDICTION
U NOISE PREDICTION (AIRCRAFT)

AIRCRAFT PARTS
Alternative shock characterizations for consistent shock-test specification
[DE84-000482] 04 p0549 N84-13619
Development of accelerated fuel-engine qualification procedures
[AD-A143845] 23 p3693 N84-33406

AIRCRAFT PERFORMANCE
NT HELICOPTER PERFORMANCE
An-32 transportation aircraft, USSR
[AD-A131013] 01 p0008 N84-10050
Airborne laboratory measurement of aircraft performance and stability and control for light aircraft. Supplement
[AD-A131457] 02 p0181 N84-11179
User's guide for a computer program for calculating the zero-lift wave drag of complex aircraft configurations
[NASA-TM-85670] 02 p0271 N84-11774
Integration of Fire Control, Flight Control and Propulsion Control Systems
[AGARD-CP-349] 03 p0315 N84-12056
Auxiliary power requirements: Their role in aircraft performance 03 p0334 N84-12169
Performance degradation of a typical twin engine commuter type aircraft in measured natural icing conditions
[NASA-TM-83564] 04 p0483 N84-13173
Trending of cruise drag — aircraft performances
[NLR-TR-82078-U] 09 p1258 N84-18200

Lecture notes on the principles and practice of airplane performance prediction. Part 1: Basic elements
[VTH-LR-385-VOL-1] 10 p1429 N84-19345
Lecture notes on the principles and practice of airplane performance prediction. Part 2: Point-performance in steady symmetric and unsymmetric flight
[VTH-LR-385-VOL-2] 10 p1429 N84-19346
Lecture notes on the principles and practice of airplane performance prediction. Part 3: Path performance in quasi steady and unsteady symmetric flight
[VTH-LR-385-VOL-3] 10 p1429 N84-19347
Helistat simulation studies
[NASA-CR-166567] 11 p1614 N84-20564
Development of the A-6E/A-6E TRAM/KA-6D NATOPS (Naval Air Training and Operating Procedures Standardization) calculator aided performance planning system (NCAPPS)
[AD-A136897] 14 p2186 N84-24100
Aerodynamics of V/STOL aircraft: Performance assessment 16 p2437 N84-25635
Assessment of aerodynamic performance of V/STOL and STOVL fighter aircraft 16 p2437 N84-25636
Notes on special flight aspects, such as STO, ski-jump and ODM 16 p2437 N84-25637
Performance validation of Lear Siegler flight management systems 17 p2586 N84-26578
Hungarian officials comment on performance of Soviet-built aircraft 18 p2784 N84-27670
New world records set by AN-72 transport 18 p2784 N84-27672
IL-76 used successfully for Arctic cargo air drops 18 p2784 N84-27673
KC-135 Winglet Program Review
[NASA-CP-2211] 18 p2787 N84-27686
Measurements of the fuel mileage of a KC-135 aircraft with and without winglets 18 p2787 N84-27690
Comparison of flight measured, predicted and wind tunnel measured winglet characteristics on a KC-135 aircraft 18 p2787 N84-27691
User's manual for a fuel-conservative descent planning algorithm implemented on a small programmable calculator
[NASA-TM-86275] 20 p3129 N84-29871
Extensions and modifications to the ARL point-performance program
[AD-A142078] 21 p3328 N84-31113
GROB G-112: Flight testing fulfills expectations
[NASA-TM-77745] 24 p3854 N84-34438

AIRCRAFT PILOTS
An overview of the demonstration advanced avionics system guest pilot evaluation conducted at Ames Research Center 03 p0314 N84-12049
Extent of hearing loss among Army aviators at Fort Rucker, Alabama
[AD-A132089] 03 p0415 N84-12714
Study of metabolic sequelae of using positive intrapulmonary pressure during exposure to accelerations 07 p1045 N84-16776
Mathematical simulation of the cardiopulmonary system
[AD-A135460] 08 p1200 N84-17822
Development of speech input/output interfaces for tactical aircraft
[AD-A136485] 09 p1255 N84-18193
Distribution of visual characteristics of Naval aviation personnel
[AD-A135930] 10 p1547 N84-20144
Performance consistency on a perceptual-motor task as a correlate of achievement motivation
[AD-A135933] 10 p1552 N84-20170
A hazard in aerobatics: Effects of G-forces on pilots
[FAA-AC-91-61] 12 p1865 N84-22152
Safety recommendation(s) A-84-16 16 p2444 N84-25679
Helicopter Pilot/Copilot survival system
[AD-A140358] 16 p2445 N84-25682
Physiological assessment of aircraft pilot workload in simulated landing and simulated hostile threat environments
[AD-A140469] 16 p2538 N84-26297
Initial validation of a functional age profile for aviators
[AD-P003271] 18 p2907 N84-28436
Understanding a technical language: A schema-based approach
[NASA-TM-85868] 19 p3070 N84-29478

AIRCRAFT POWER SOURCES
U AIRCRAFT ENGINES

AIRCRAFT POWER SUPPLIES
Solid state power controller fuse development program
[AD-A142118] 19 p3016 N84-29118
Rapid electrolyte exchange procedures for 22 AH nickel-cadmium calgard cells
[AD-A142004] 20 p3177 N84-30178
Handling of hydrazine in the Royal Danish Air Force 22 p3631 N84-33014

AIRCRAFT PRODUCTION
Engine affordability — aircraft engines
[PNR-90178] 13 p1933 N84-22574
Alpha jet pylon 14 p2093 N84-23556
MRCA run-in floors 14 p2093 N84-23557
Additionally compressed titanium fine cast components 14 p2094 N84-23559
Superplastic transformation and diffusion welding of titanium alloys 14 p2094 N84-23562
Aluminum precision forging components 14 p2094 N84-23563
Modern helicopter development in Germany
[MBB-UD-395-83-O] 14 p2105 N84-23627

AIRCRAFT PRODUCTION COSTS
Historical inflation program. A computer program generating historical inflation indices for Army aircraft: Revision
[AD-A137670] 11 p1599 N84-20474
An automated airframe production cost model
[AD-P002787] 13 p2056 N84-23334
Independent cost estimates: A case study joint vertical lift aircraft (JVX) program
[AD-P002797] 13 p2057 N84-23343

AIRCRAFT RELIABILITY
The initial design of active control systems for a flexible aircraft 02 p0171 N84-11125
The Civil Aircraft Airworthiness Data Recording Programme 06 p0775 N84-15079
Structural composites technology working group report IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A137331] 10 p1504 N84-19829
Safety standards on small passenger aircraft with nine or fewer seats are significantly less stringent than on larger aircraft
[PB84-142033] 12 p1767 N84-21526
SIRE: An integrated reliability and cost model for the aerospace industry --- System Integrated Reliability Evaluator (SIRE)
[PNR-90192] 13 p1999 N84-22972
A comparison of measured take-off and flyover sound levels for several general aviation propeller-driven aircraft
[AD-A139901] 15 p2404 N84-25429
Preliminary airworthiness evaluation of the Rutan Aircraft Factory (RAF), Incorporated LONG-EZ airplane
[AD-A140765] 17 p2606 N84-26695
Preliminary airworthiness evaluation of the UH-60 helicopter with T700-GE-701A engines installed
[AD-A140882] 17 p2606 N84-26696

AIRCRAFT SAFETY
Crashworthiness: An illustrated commentary on occupant survival in general aviation accidents
[AD-A130198] 01 p0006 N84-10038
Lessons learned from FY82 US Army aviation mishaps
[AD-A131725] 03 p0328 N84-12137
Aircraft navigation technology and errors
[GPO-26-859] 04 p0482 N84-13170
Performance degradation of a typical twin engine commuter type aircraft in measured natural icing conditions
[NASA-TM-83564] 04 p0483 N84-13173
Statistical analysis of turbulence data from the NASA Marshall Space Flight Center atmospheric boundary layer tower array facility --- statistical correlations for aircraft design
[NASA-CR-3737] 04 p0566 N84-13730
An analysis of potential protective breathing devices intended for use by aircraft passengers
[AD-A132648] 05 p0716 N84-14692
The Civil Aircraft Airworthiness Data Recording Programme 06 p0775 N84-15079
Incident reporting: Its role in aviation safety and the acquisition of human error data 06 p0775 N84-15081
Flight parameters recording for safety monitoring and investigations 06 p0775 N84-15083
Aircraft operations from airfields with special unconventional characteristics 06 p0776 N84-15085
Lessons learned in the development of the F-16 flight control system 06 p0777 N84-15092
Ice formation in aircraft 06 p0783 N84-15130
Airborne lightning characterization
[AD-A130627] 06 p0881 N84-15733
Wake vortices and their aerodynamic alleviation: A review of the literature
[DFVLR-MITT-83-07] 07 p0948 N84-16154
Antimisting kerosene: Base fuel effects, blending and quality control techniques
[NASA-CR-174509] 07 p0980 N84-16351
Airport and aircraft safety research and technology
[GPO-26-497] 08 p1100 N84-17152
Explosion and fire hazards in an oil-oxygen system --- of an airplane
[FOA-C-20507-D1] 08 p1101 N84-17159
Developments in cabin safety and crashworthiness --- passenger aircraft 08 p1101 N84-17161
Current procedures for forecasting aviation icing: A review
[AD-A136152] 09 p1350 N84-18818
Centralized warning systems for the new generation of airliners
[VTH-LR-373] 10 p1424 N84-19315
Aircraft accident report: Sierra Pacific Airlines, DHC-6-300, N361V, Hailey, Idaho, February 15, 1983
[PB84-910403] 12 p1767 N84-21525
System safety and the Coast Guard lighter-than-air system project
[AD-A139807] 15 p2258 N84-24564
Safety recommendations A-84-8 and -9, and A-84-17 through -20 16 p2444 N84-25675
Safety recommendations A-84-14 and -15 16 p2444 N84-25678
Cabin safety subject index
[AD-A140409] 16 p2445 N84-25683
Alternate T-38 transparency development
[AD-P003219] 17 p2595 N84-26632
Evaluation of an improved flame resistant aircraft window system
[FAA-CT-83-10] 17 p2603 N84-26680
Aircraft seat fire blocking layers. Effectiveness and benefits under various scenarios
[AD-A140796] 17 p2603 N84-26681
Protection equipment against high velocity ejections — pilot ejection
[STPA/CIN-6] 18 p2790 N84-27705
An experimental and theoretical investigation of an Nemp (nuclear electromagnetic pulse simulator) type fast rise lightning simulator
[AD-A141283] 18 p2890 N84-28346
System safety in aircraft acquisition
[AD-A141492] 19 p2960 N84-28763
Structures and Dynamics Division research and technology plans for FY 1894 and accomplishments for FY 1982
[NASA-TM-85828] 19 p3034 N84-29245
History of aircraft escape system propulsion 20 p3141 N84-29941
Propulsion in a life-saving role for ACES 2 20 p3141 N84-29942
Crest: Crew escape technologies for the 1990's 20 p3141 N84-29944
Energy management for crew escape systems 20 p3141 N84-29945
Simulated crash decelerations in a light aircraft cabin
[AD-A142806] 21 p3326 N84-31102
Handling of hydrazine in the Royal Danish Air Force 22 p3631 N84-33014
Fire blocking systems for aircraft seat cushions
[NASA-CASE-ARC-11423-1] 23 p3691 N84-33394
Radar cross section measurements of wingtip vortices 23 p3775 N84-33934
Modernization of the US national airspace system. Foundation for the future
[AD-A144332] 24 p3853 N84-34435

AIRCRAFT SPECIFICATIONS
Managing aircraft/simulator concurrency
[AD-P003463] 21 p3511 N84-32240

AIRCRAFT SPIN
Pilot human factors in stall/spin accidents of supersonic fighter aircraft 06 p0779 N84-15102

AIRCRAFT STABILITY
Airborne laboratory measurement of aircraft performance and stability and control for light aircraft. Supplement
[AD-A131457] 02 p0181 N84-11179
Reduced stability in a modern commercial aircraft and center of gravity control
[MBB-UT-22-82-OE] 05 p0632 N84-14156
Bifurcation analysis of aircraft pitching motions near the stability boundary
[NASA-TM-85881] 08 p1097 N84-17137
A wind tunnel investigation to determine dominant forebody strake design characteristics for an F-15 equipped with conformal fuel tanks
[AD-A136912] 10 p1421 N84-19292
The effect of constant versus oscillatory rates on dynamic stability derivatives
[AD-A136913] 10 p1421 N84-19293
An assessment of the capability to calculate tilting prop-rotor aircraft performance, loads and stability
[NASA-TP-2291] 10 p1427 N84-19333
Low-speed wind-tunnel study of the high-angle-of-attack stability and control characteristics of a cranked-arrow-wing fighter configuration
[NASA-TM-85776] 14 p2110 N84-23654

On the stability of flight vehicles in the low Reynolds number non-linear regime
[AD-A140008] 15 p2258 N84-24561
In-flight investigation of landing approach flying qualities of transport aircraft with relaxed static stability
[DFVLR-FB-84-11] 17 p2610 N84-26706
On the stick-free longitudinal dynamic stability of a general aviation aircraft equipped with an all-movable horizontal tail 18 p2797 N84-27748
In-flight investigation of longitudinal flying qualities criteria
[AD-A143614] 23 p3695 N84-33419
Determination of performance and stability characteristics from dynamic manoeuvres with a transport aircraft using parameter identification techniques 24 p3847 N84-34400

AIRCRAFT STRUCTURES
NT AFTERBODIES
NT AIRFRAMES
NT FOREBODIES
NT FUSELAGES
NT NOSES (FOREBODIES)
Aircraft fatigue, with particular emphasis on Australian operations and research
[AD-A131036] 01 p0009 N84-10051
Flight service evaluation of Kevlar-49 epoxy composite panels in wide-bodies commercial transport aircraft
[NASA-CR-166065] 01 p0030 N84-10188
The influence of fabrication flows on the static and dynamic behavior of structures made of carbon-resin composites 01 p0034 N84-10215
Advanced ND techniques for composite primary structures 01 p0034 N84-10216
The significance of defects and damage in composite structures 01 p0035 N84-10219
Effect of defects on aircraft composite structures 01 p0035 N84-10221
The engineering significance of defects in composite structures 01 p0035 N84-10222
Defect occurrences in the manufacture of large CFC structures and work associated with defects, damage and repair of CFC components 01 p0035 N84-10223
Poor quality aircraft exterior surfaces cause greater fuel expenditures 02 p0167 N84-11095
Polyurethane aircraft coatings for fuel savings 02 p0167 N84-11096
Estimated analysis of the aeroelastic behavior of tail rotors 02 p0172 N84-11129
Aeroelasticity and optimization at the design stage 02 p0172 N84-11131
Metal matrix composite structural panel construction
[NASA-CASE-LAR-12807-1] 02 p0187 N84-11214
Aircraft transparency testing methodology and evaluation criteria. Part 2: Methodology development for improved durability
[AD-A131928] 03 p0331 N84-12157
Aircraft transparency testing methodology and evaluation criteria. Part 1: Test methods and information analysis
[AD-A131927] 03 p0331 N84-12158
Flightline thermal environment testing of F-111 transparencies
[AD-A131642] 03 p0332 N84-12163
Vibration response of geometrically nonlinear elastic beams to pulse and impact loading
[NASA-CR-174495] 03 p0386 N84-12527
Evaluation of the crack gage as an advanced individual aircraft tracking concept 03 p0391 N84-12551
Some thoughts concerning large load-carrying vehicles
[NASA-TM-85701] 04 p0477 N84-13139
Numerical simulation of two-dimensional heat transfer in composite bodies with application to de-icing of aircraft components
[NASA-CR-166283] 04 p0531 N84-13490
Economic production of aircraft structures made of fiber reinforced materials
[MBB-UT-23-82-OE] 05 p0625 N84-14109
Connection of large Airbus components taking example of control surfaces junctions
[MBB-UT-07-82-OE] 05 p0629 N84-14134
Recognizing defects in carbon-fiber reinforced plastics
[NASA-TM-76947] 06 p0786 N84-15143
Report on visit to the US and Europe in May 1983, covering the 1983 ICAF (International Committee on Aeronautical Fatigue) Meetings and related visits
[AD-A133415] 06 p0786 N84-15147
Effect of suction on the wake structure of a three-dimensional turret
[AD-A135897] 09 p1252 N84-18174
The use of interference-fit bolts or bushes and hole cold expansion for increasing the fatigue life of thick-section aluminium alloy bolted joints
[AR-002-973] 09 p1329 N84-18676
Concepts for improving the damage tolerance of composite compression panels — aircraft structures
[NASA-TM-85748] 09 p1329 N84-18678
New analytical methods for the prediction of fatigue crack growth under realistic loading — aircraft structures
[NLR-MP-82055-U] 09 p1335 N84-18713
The Shock and Vibration Bulletin. Part 3: Vehicle dynamics and vibration: Test and criteria
[AD-A134454] 10 p1511 N84-19893
Testing for severe aerodynamically induced vibration environments 10 p1513 N84-19905
Numerical determination of the effects of boundary conditions on the instability of composite panels with cutouts
[AD-A136772] 10 p1517 N84-19931
Optimized bolted joint
[NASA-CASE-LAR-13250-1] 11 p1664 N84-20859
AGARD Highlights, March 1984
[AGARD-HIGHLIGHTS-84/1] 12 p1763 N84-21498
Report by the Chairman of the Fluid Dynamics Panel 12 p1763 N84-21499
An RAF viewpoint on aircraft structural integrity 12 p1764 N84-21503
The application of cold worked holes (in aircraft structures)
[NLR-TR-81120-U] 13 p2002 N84-22990
Aluminum precision forging components 14 p2094 N84-23563
Recent developments and future directions in dynamic stability research at NAE, Ottawa 14 p2097 N84-23582
Large deflection multimode response of clamped rectangular panels to acoustic excitation, volume 1
[AD-A139622] 15 p2350 N84-25107
Safety recommendations A-84-1 through -3 16 p2443 N84-25673
Influence of the environment on the application and drying quality of organic paints — aircraft structures
[SNIAS-832-551-102] 16 p2471 N84-25833
Radomes for flight vehicles
[AD-A140174] 16 p2483 N84-25920
Revisions to the PETROS 4 shell response code
[AD-A140268] 16 p2502 N84-26059
On improving the fatigue performance of a double-shear lap joint
[VFW-29/83-O] 16 p2561 N84-26431
Successful utilization of economic, light aluminum-casted structures in airplane construction
[VFW-31/83-O] 16 p2562 N84-26439
New high performance windshield/canopy materials
[AD-P003199] 17 p2592 N84-26612
An industry test program for interlayer equivalency
[AD-P003200] 17 p2592 N84-26613
Fluroepoxy and fluroacrylic transparencies
[AD-P003201] 17 p2592 N84-26614
Polycrystalline MgAl2O4 spinel for high performance windows
[AD-P003202] 17 p2592 N84-26615
An improved acrylic sheet material with enhanced craze resistance
[AD-P003203] 17 p2592 N84-26616
Protective linear materials for transparent plastics
[AD-P003204] 17 p2592 N84-26617
Specialty coatings for increased service life of acrylic aircraft transparencies, part 2
[AD-P003206] 17 p2593 N84-26619
In-flight measurement of pressure distribution over T-38 student canopy
[AD-P003207] 17 p2593 N84-26620
Swedish Air Force maintenance programme for aged transparent enclosures for jet trainer and jet fighter aircraft
[AD-P003208] 17 p2593 N84-26621
Visual effects of F-16 Canopy/HUD (Head-Up Display) integration
[AD-P003221] 17 p2595 N84-26634
Optical effects of F-16 Canopy-HUD (Head-Up Display) integration
[AD-P003222] 17 p2595 N84-26635
Visual perception through windscreens: Effects of minor occlusions and haze on operator performance
[AD-P003223] 17 p2596 N84-26636
Lufthansa German Airlines experience with cabin and cockpit windows of Boeing 707, 727, 737, 747, Douglas DC10 and Airbus A300
[AD-P003226] 17 p2596 N84-26639
Windshield problems on UK operated transport sized jet aircraft 1976 to 1982
[AD-P003228] 17 p2596 N84-26641
Evaluation of an improved flame resistant aircraft window system
[FAA-CT-83-10] 17 p2603 N84-26680
USSR report: Transportation
[JPRS-UTR-84-005] 18 p2784 N84-27668
Theoretical and experimental results of dynamic behavior of periodically stiffened cylindrical shell 18 p2794 N84-27731
Hygrothermal effects in continuous fibre reinforced composites. Part 1: Thermal and moisture diffusion in composite materials
[AD-A128228] 18 p2810 N84-27837
SPF/DB primary structure for supersonic aircraft (T-38 horizontal stabilizer)
[NASA-CR-163114] 18 p2813 N84-27860
An investigation into the probabilistic combination of quasi-static and random accelerations
[NASA-TM-82584] 18 p2852 N84-28111
Flexible manufacturing line for aircraft structures of sheet metal
[BMFT-FB-W-84-011] 19 p2955 N84-28731
Aeroelastic problems caused by tornados and their successful treatment with technologies that result from experiences of precedent intensive technologic modernizing
[MBB-FE-294/S/PUB/110] 19 p3035 N84-29253
USAF durability design handbook: Guidelines for the analysis and design of durable aircraft structures
[AD-A142424] 20 p3128 N84-29666
Stress-corrosion crack-growth study of titanium alloy Ti-6Al-4V exposed to Freon PCA and nitrogen tetroxide MON-1 20 p3138 N84-29923
ACEE Composite Structures Technology: Review of selected NASA research on composite materials and structures
[NASA-CP-2321] 20 p3145 N84-29969
Residual-strength tests of L-1011 vertical fin components after 10 and 20 years of simulated flight service 20 p3145 N84-29970
Worldwide flight and ground-based exposure of composite materials 20 p3145 N84-29971
Prediction of light aircraft interior sound pressure level using the room equation
[NASA-CR-173840] 21 p3490 N84-32117
Aeronautical Engineering: A Continuing Bibliography with Indexes
[NASA-SP-7037(178)] 22 p3529 N84-32343
Development and flight evaluation of an augmented stability active controls concept with a small tail
[NASA-CR-173880] 22 p3537 N84-32395
Rigid closed-cell polyimide foams for aircraft applications and foam-in-place technology
[NASA-CR-171805] 22 p3559 N84-32535
The need for biaxial fatigue testing at A.R.L.
[AD-A143203] 22 p3611 N84-32878

AIRCRAFT SURVIVABILITY
Lessons learned in the development of the F-16 flight control system 06 p0777 N84-15092
Tornado autopilot measures to ensure survivability after failures 06 p0777 N84-15094
Increased aircraft survivability using direct voice input 06 p0778 N84-15100
Technical information support for survivability 10 p1508 N84-19868
Aircraft survivability 10 p1508 N84-19869
Crew survivable helicopter undercarriage
[AD-A137770] 11 p1606 N84-20517
Survivability design guidelines for Fly-By-Wire Flight Control Systems development
[AD-A138211] 12 p1772 N84-21557
Educational aids in aircraft combat survivability
[AD-A139090] 13 p1931 N84-22556
Application of multifunction strapdown inertial system 16 p2447 N84-25698
Aircraft seat fire blocking layers. Effectiveness and benefits under various scenarios
[AD-A140796] 17 p2603 N84-26681
A simulation model to evaluate aircraft survivability and target damage during offensive counterair operations
[AD-A141324] 18 p2793 N84-27728
The effect of component redundancy upon aircraft combat survivability
[AD-A141815] 19 p2964 N84-28784

AIRCRAFT TIRES
FOD (Foreign Object Damage) generation by aircraft tires — probability of engine ingestion and airfield surface movements
[AD-A133319] 06 p0786 N84-15146
Heat generation in aircraft tires under braked rolling conditions
[NASA-CR-3768] 06 p0858 N84-15587
Process for renovating aircraft tires tested 18 p2790 N84-27712

AIRCRAFT WAKES
NT HELICOPTER WAKES
NT PROPELLER SLIPSTREAMS
NT SLIPSTREAMS
Experimental vortex analyzer
[NLR-MP-82006-U] 02 p0175 N84-11151
The effect of wing tip devices on the far-field wake of a Paris Aircraft 03 p0326 N84-12131

Wake vortices and their aerodynamic alleviation: A review of the literature
[DFVLR-MITT-83-07] 07 p0948 N84-16154
Wake visualization
[BU-282] 15 p2255 N84-24542
Installation noise measurements of model SR and CR propellers
[NASA-TM-85790] 15 p2403 N84-25425
Noise generated by a propeller in a wake
[NASA-TM-85794] 16 p2553 N84-26382
A numerical simulation of the dispersal of aerial sprays
[NASA-CR-165816] 19 p3020 N84-29151
Wake profile measurements of fixed and oscillating flaps
[NASA-CR-166602] 24 p3852 N84-34428

AIRCREWS
U FLIGHT CREWS

AIRFIELD SURFACE MOVEMENTS
ARSSR civil aviation chief on Aeriot's work in Armenia 24 p3851 N84-34423

AIRFIELDS
U AIRPORTS

AIRFOIL CHARACTERISTICS
U AIRFOILS

AIRFOIL PROFILES
NT WING PROFILES
Effects of vane-tip geometry on the electric fields in radio-frequency quadrupole linacs
[DE83-013214] 01 p0143 N84-10937
Family of airfoil shapes for rotating blades — for increased power efficiency and blade stability
[NASA-CASE-LAR-12843-1] 02 p0173 N84-11136
An application of the finite element method to the solution of low Reynolds number, incompressible flow around a Joukowski aerofoil, with emphasis on automatic generation of grids
[AD-A133008] 05 p0628 N84-14127
Three-dimensional effects on airfoils
[NASA-TM-77025] 06 p0781 N84-15118
Computational procedures in transonic aerodynamic design
[NLR-MP-82020-U] 06 p0783 N84-15131
Design procedures for compressor blades
[NASA-TM-77085] 06 p0852 N84-15552
Design of transonic compressor cascades for minimal shock losses and comparison with test results 07 p0955 N84-16192
COMFLO: An experimental program for multigrid treatment of subsonic potential flows past airfoil profiles
[PREPRINT-604] 10 p1423 N84-19302
Identification of airfoil characteristics for optimum wind turbine performance 12 p1765 N84-21510
Implementation of uniform perturbation method for potential flow past axisymmetric and two-dimensional bodies
[NASA-CR-173629] 20 p3125 N84-29851
Experimental investigations on airfoils with different geometries in the domain of high angles of attack — flow separation
[REPT-A-5/84-PT-1] 23 p3691 N84-33393

AIRFOIL SECTIONS
U AIRFOIL PROFILES

AIRFOIL THICKNESS
U AIRFOIL PROFILES

AIRFOILS
NT AERIAL RUDDERS
NT AILERONS
NT ARROW WINGS
NT BEARINGLESS ROTORS
NT CAMBERED WINGS
NT CARET WINGS
NT CIRCULATION CONTROL AIRFOILS
NT CRUCIFORM WINGS
NT DELTA WINGS
NT ELEVATORS (CONTROL SURFACES)
NT ELEVONS
NT EXTERNALLY BLOWN FLAPS
NT FIXED WINGS
NT FLAPS (CONTROL SURFACES)
NT FLEXIBLE WINGS
NT HORIZONTAL TAIL SURFACES
NT INFINITE SPAN WINGS
NT JET FLAPS
NT LAMINAR FLOW AIRFOILS
NT LOW ASPECT RATIO WINGS
NT PROPELLER BLADES
NT RECTANGULAR WINGS
NT RIGID ROTORS
NT ROTARY WINGS
NT SLENDER WINGS
NT SPLIT FLAPS
NT SPOILERS
NT SUPERCRITICAL AIRFOILS
NT SUPERCRITICAL WINGS
NT SUPERSONIC AIRFOILS
NT SWEPT FORWARD WINGS
NT SWEPT WINGS
NT SWEPTBACK WINGS
NT TABS (CONTROL SURFACES)
NT THIN WINGS
NT TIP DRIVEN ROTORS
NT TRAILING-EDGE FLAPS
NT UNCAMBERED WINGS
NT UNSWEPT WINGS
NT VARIABLE SWEEP WINGS
NT VORTEX FLAPS
NT WING FLAPS
NT WINGS
Computational analyses of unsteady flow past airfoils with flapping and/or pitching motion 01 p0002 N84-10013
A lifting surface theory in rotational flow
[NASA-CR-172233] 01 p0002 N84-10017
An experimental documentation of trailing-edge flows at high Reynolds number
[NASA-TM-84375] 01 p0076 N84-10498
Reynolds number tests of an NPL 9510 airfoil in the Langley 0.3-meter transonic cryogenic tunnel
[NASA-TM-85663] 02 p0173 N84-11141
Airloads on bluff bodies, with application to the rotor-induced downloads on tilt-rotor aircraft
[NASA-TM-84401] 02 p0174 N84-11142
A computer program for estimating the aerodynamic characteristics of NACA 16-series airfoils
[NASA-TM-85696] 02 p0174 N84-11145
A steady-state thermal model for analysis of incipient icing on an air foil leading edge
[AD-A131207] 02 p0175 N84-11150
Acta Aeronautica et Astronautica Sinica
[AD-A131828] 03 p0315 N84-12055
Subsonic/transonic viscous interactions 03 p0317 N84-12075
Aerodynamic design for overall vehicle performance 03 p0318 N84-12077
Application of computational procedures in aerodynamic design 03 p0318 N84-12078
Dynamic-stall regulation of the Darrieus turbine
[DE83-017994] 03 p0321 N84-12097
Steady and unsteady flow models for airfoils with spoiler 03 p0327 N84-12136
La Recherche Aerospatiale, Bimonthly Bulletin, no. 1982-4, 209/July-August 1982
[ESA-TT-781] 04 p0477 N84-13141
A viscous-inviscid interactive procedure for rotational flow in cascades of two dimensional airfoils of arbitrary shape
[NASA-CR-174609] 04 p0478 N84-13149
Tabulation of data from tests of an NPL 9510 airfoil in the Langley 0.3-meter transonic cryogenic tunnel
[NASA-TM-84579] 04 p0479 N84-13151
A fully vectorized numerical solution of the incompressible Navier-Stokes equations
[NASA-CR-174496] 04 p0531 N84-13491
Computational methods for complex flowfields
[AD-A133970] 05 p0680 N84-14467
Global pressure relaxation procedure for laminar and turbulent incompressible flows with strong interaction and separation 05 p0683 N84-14490
A model of the trailing edge separation on an airfoil
[AD-A126703] 06 p0782 N84-15125
Aerothermal modeling. Executive summary
[NASA-CR-168330] 06 p0790 N84-15152
Unsteady pressure and force measurements associated with transonic buffeting of a two-dimensional supercritical airfoil
[AD-A133139] 06 p0844 N84-15503
Self-sustained oscillations of a shock wave interacting with a boundary layer on a supercritical airfoil
[NASA-CR-175336] 07 p0945 N84-16131
The effect of discrete spanwise regions of bleed on pseudo-two-dimensional base flow at transonic speeds
[ARL-AERO-NOTE-418] 07 p0945 N84-16132
Interacting boundary-layer solutions for laminar separated flow past airfoils
[NASA-CR-172267] 07 p0946 N84-16140
Results of an experimental program investigating the effects of simulated ice on the performance of the NACA 63A415 airfoil with flap
[NASA-CR-168268] 07 p0947 N84-16145
Potential flow analysis of glaze ice accretions on an airfoil
[NASA-CR-168282] 07 p0947 N84-16146
An investigation of airfoil dynamic stall with large amplitude motions
[AD-A134230] 07 p0948 N84-16150
Determination of optimum fin planform and airfoil section for minimizing fin hinge moment
[AD-A134523] 07 p0948 N84-16151
Numerical simulation of stalling flows by an integral equation method 07 p0956 N84-16199
Transactions of the Japan Society for Aeronautical and Space Sciences, vol. 26, no. 73, November 1983
[ISSN-0549-3811] 07 p0984 N84-16374
Quasi-doublet-lattice method for oscillating thin airfoils in subsonic flow 07 p0985 N84-16378
Numerical solution of the Navier-Stokes equations for arbitrary 2-dimensional multi-element airfoils
[NASA-CR-173251] 07 p1061 N84-16876
Tests on a CAST 7 two-dimensional airfoil in a streamlining test section
[NASA-CR-172291] 08 p1097 N84-17136
Trailing edge flow conditions as a factor in airfoil design
[NASA-CR-173294] 08 p1098 N84-17140
A recontoured, upper surface designed to increase the maximum lift coefficient of a modified NACA 65 (0.82) (9.9) airfoil section
[NASA-TM-85855] 08 p1099 N84-17144
The 2-dimensional inextensible lifting membrane airfoil, theory and experiment
[AD-A135251] 08 p1099 N84-17147
IRAAM wind tunnel test, task 3
[AD-A135256] 08 p1099 N84-17148
A cooperative program to stimulate student involvement through the MIT Undergraduate Research Opportunity Program
[NASA-CR-173300] 08 p1237 N84-18086
Calculating C-grids with fine and embedded mesh regions
[CFDL-TR-83-7] 08 p1238 N84-18090
Airfoil interaction with impinging vortex
[NASA-TP-2273] 09 p1250 N84-18159
An approach to the design of airfoils with high lift to drag ratios
[UTIAS-TN-245] 09 p1250 N84-18160
Experiment of a shockless transonic airfoil
[NAL-TR-783] 09 p1251 N84-18166
Calculation of three-dimensional flying object in shockless transonic flow
[NAL-TR-782] 09 p1251 N84-18167
A modified lifting line theory for wing-propeller interference
[NASA-CR-173324] 09 p1252 N84-18171
Experimental investigation of dynamic stall
[AD-A135846] 09 p1252 N84-18172
Unsteady viscous transonic flow computations using LTRAN2-NLR code coupled with Green's lag-entrainment method
[NLR-MP-82052-U] 09 p1253 N84-18181
The effect on acoustic radiation of mutual interaction between a line vortex and an airfoil
[FFA-TN-1983-45] 09 p1387 N84-19058
Tests of a NACA 65(sub 1)-213 airfoil in the NASA Langley 0.3-meter transonic cryogenic tunnel
[NASA-TM-85732] 10 p1420 N84-19267
Investigation of effects contributing to dynamic stall using a momentum-integral method
[AD-A136897] 10 p1421 N84-19291
Continued experimental investigation of dynamic stall
[AD-A136920] 10 p1421 N84-19294
The effect of trailing vortices on the production of lift on an airfoil undergoing a constant rate of change of angle of attack
[AD-A136921] 10 p1421 N84-19295
Some unsteady aerodynamic characteristics of separated and attached flow
[AD-A137070] 10 p1422 N84-19300
An experimental investigation of the aerodynamic effects of forward facing wedges on the upper surface and leading edge of an aerofoil, with emphasis on high angles of attack
[ARL-AERO-TECH-MEMO-356] 11 p1599 N84-20477
Experimental study of the separating confluent boundary-layer. Volume 2: Experimental data
[NASA-CR-166018] 11 p1600 N84-20481
The status of analytical preparation for 2-dimensional testing at high transonic speeds in the University of Southampton transonic self-streamlining wind tunnel
[NASA-CR-3785] 11 p1602 N84-20494
Formulation of blade-flutter spectral analyses in stationary reference frame
[NASA-TP-2296] 11 p1614 N84-20562
Application of the small body pressure transducer
[AD-P002687] 11 p1659 N84-20822
Transonic calculation of airfoil stability and response with active controls
[NASA-TM-85770] 12 p1765 N84-21513
Inverse transonic airfoil design methods including boundary layer and viscous interaction effects
[NASA-CR-173449] 12 p1765 N84-21514
Study of large-scale mixing in developing wakes behind streamlined bodies
[NASA-CR-173478] 12 p1766 N84-21517

Effect of a rotor wake on heat transfer from a circular cylinder
[NASA-TM-83613] 12 p1815 N84-21832
Transonic flow calculations using triangular finite elements 13 p1925 N84-22529
Calculation of the flow over a stalled airfoil 13 p1925 N84-22531
The design and operational development of self-streamlining 2-dimensional flexible walled test sections
[NASA-CR-172328] 13 p1926 N84-22534
ALESEP: A computer program for the analysis of airfoil leading edge separation bubbles
[NASA-CR-172310] 13 p1926 N84-22537
High Reynolds number tests of the cast 10-2/DOA2 transonic airfoil at ambient and cryogenic temperature conditions 14 p2096 N84-23575
Nonadiabatic model wall effects on transonic airfoil performance in a cryogenic wind tunnel 14 p2096 N84-23579
Computation of viscous flows over airfoils, including separation, with a coupling approach
[NASA-TM-77079] 14 p2101 N84-23607
Application of rapidly solidified superalloys
[AD-A139350] 14 p2127 N84-23755
Artificial mass concept and transonic viscous flow equation
[AD-P002946] 14 p2198 N84-24186
Calculation of transonic flow in a linear cascade
[NASA-TM-83697] 15 p2255 N84-24539
An algorithm for the prediction of unsteady potential flow about an arbitrary aerofoil
[GU-AERO-8306] 15 p2257 N84-24553
An investigation of three-dimensional stall development on NACA 23012 and NACA 0012 aerofoils
[GU-AERO-8300] 15 p2257 N84-24554
The structural and aerodynamic behaviour of a semi-inflatable wing
[BU-297] 15 p2260 N84-24574
Behavior of cascaded airfoils under conditions of high mean loading and flow unsteadiness
[AD-A139799] 15 p2263 N84-24592
Panel method for perturbations of transonic flows with finite shocks 16 p2442 N84-25669
Introduction to unsteady flow in turbomachines 16 p2489 N84-25962
The method of complex characteristics for design of transonic compressors 17 p2599 N84-26659
Integrating multigrid relaxation into a robust fast-solver for transonic potential flows around lifting airfoils
[NLR-MP-83021-U] 17 p2601 N84-26673
Advanced aerodynamics. Selected NASA research
[NASA-CP-2208] 18 p2783 N84-27660
Measured transonic unsteady pressures on an energy efficient transport wing with oscillating control surfaces 18 p2783 N84-27663
The investigation of a variable camber blade lift control for helicopter rotor systems
[NASA-CR-3503] 18 p2788 N84-27695
Energy efficient engine: Low-pressure turbine subsonic cascade component development and integration program
[NASA-CR-165592] 18 p2795 N84-27738
Experimental studies of flow separation of three airfoils at low speeds
[NASA-CR-3530] 19 p2956 N84-28736
Pressure distribution data from tests of 2.29-meter (7.5-ft.) span EET high-lift research model in Langley 4- by 7-meter tunnel
[NASA-TM-83111] 19 p2957 N84-28739
Two-dimensional aerodynamic characteristics of three rotorcraft airfoils at Mach numbers from 0.35 to 0.90
[NASA-TP-2000] 19 p2957 N84-28743
An experimental investigation of the aerodynamic effects of forward facing wedges on the upper surface and leading edge of an aerofoil, with emphasis at high angles of attack
[AD-A142053] 19 p2959 N84-28755
Energy efficient engine high-pressure turbine detailed design report
[NASA-CR-165608] 19 p2965 N84-28788
Three-dimensional unsteady viscous flow analysis over airfoil sections
[NASA-CR-172368] 19 p3020 N84-29152
Noise reduction techniques: Criteria and validation 19 p3096 N84-29664
Acceleration to a steady state for the Euler equations
[NASA-CR-172398] 20 p3126 N84-29852
Analysis of airfoil transitional separation bubbles
[NASA-CR-3791] 20 p3126 N84-29854
Grid-size reduction in flow calculations on infinite domains by higher-order far-field asymptotics in numerical boundary conditions
[NLR-MP-83029-U] 20 p3187 N84-30253
Stall delay by boundary layer blowing and/or suction 21 p3323 N84-31086
Feedback in separated flows over symmetric airfoils
[NASA-TM-83758] 21 p3324 N84-31091
Unsteady transonic aerodynamic and aeroelastic calculations about airfoils and wings
[NASA-TM-85986] 21 p3324 N84-31092
Comparison of the full potential and Euler formulations for computing transonic airfoil flows
[NASA-TM-85963] 21 p3324 N84-31094
Shock-free transonic airfoil design by a hodograph method
[AD-A142752] 21 p3325 N84-31098
Wing design for minimum drag with practical constraints 21 p3327 N84-31109
Calculation of boundary layers of oscillating airfoils
[NASA-TM-85943] 21 p3398 N84-31554
Flux-vector splitting and Runge-Kutta methods for the Euler equations
[NASA-CR-172415] 21 p3470 N84-31993
Multiple grid methods for equations of the second kind with applications in fluid mechanics
[MATH-CENTRE-TRACTS-163] 21 p3474 N84-32018
Improvements in the accuracy and stability of algorithms for the small-disturbance and full-potential equations applied to transonic flows
[NASA-TM-85970] 22 p3530 N84-32350
Experience with transonic unsteady aerodynamic calculations
[NASA-TM-86278] 22 p3530 N84-32353
Simulation of transonic separated airfoil flow by finite difference viscous-inviscid interaction
[NASA-TM-85980] 22 p3531 N84-32358
Calculation of the pressure distribution on a pitching airfoil with application to the Darrieus rotor
[DE84-013571] 22 p3532 N84-32363
A fully vectorized numerical solution of the incompressible Navier-Stokes equations 23 p3688 N84-33375
Data from tests of a R4 airfoil in the Langley 0.3-meter transonic cryogenic tunnel
[NASA-TM-85739] 23 p3690 N84-33385
Sidewall boundary layer corrections in subsonic, 2-dimensional airfoil-hydrofoil testing
[AD-A144002] 23 p3691 N84-33391
Experimental investigations on airfoils with different geometries in the domain of high angles of attack — flow separation
[REPT-A-5/84-PT-1] 23 p3691 N84-33393
Laser velocimeter measurements of dynamic stall — conducted in the Ames two foot wind tunnel
[NASA-CR-166603] 24 p3852 N84-34429
Improving the fatigue life of the Mirage IIIO wing main spar
[ARL-STRUC-REPT-398] 24 p3853 N84-34437

AIRFRAME MATERIALS

Hardware-in-the-loop simulation techniques used in the development of the Sea Harrier avionic system 06 p0774 N84-15071
Alpha jet pylon 14 p2093 N84-23556
MRCA run-in floors 14 p2093 N84-23557
Statistical and vibratory fatigue limit characteristics of aluminum cast alloys 14 p2093 N84-23558
Additionally compressed titanium fine cast components 14 p2094 N84-23559
Economic riveting: Different bore qualities, fittings, connection elements 14 p2094 N84-23560
Welding of components made of the aluminum cast alloy A357 14 p2094 N84-23561
Superplastic transformation and diffusion welding of titanium alloys 14 p2094 N84-23562
Aluminum precision forging components 14 p2094 N84-23563
Carbon structures on the wing of the regional transport plane ATR-42
[SNIAS-832-111-113] 16 p2448 N84-25704
Composite materials: The user and the producer
[SNIAS-832-111-108] 16 p2481 N84-25772
A thermal cycling test for the screening of space materials and processes
[ESA-PSS-01-704-ISSUE-1] 16 p2500 N84-26044
Review of aeronautical fatigue investigations in the Netherlands during the period March 1981 - February 1983
[AD-B082166] 16 p2502 N84-26057
Processing and properties of airframe materials
[AD-A140832] 17 p2624 N84-26797
Composite structure repair
[AD-A141456] 21 p3358 N84-31300
Powder metallurgy for the economical manufacture of aeronautical components in titanium alloy
[AD-B076255] 23 p3717 N84-33562

AIRFRAMES

Application of FRACTOMAT/KRAK GAGES to crack growth measurements in structural components
[AD-A130945] 01 p0095 N84-10620
Semielliptical cracks along holes in plates and lugs
[AD-A130786] 01 p0096 N84-10622
Effects of Nacelle configuration/position on performance of subsonic transport
[NASA-CR-3743] 02 p0174 N84-11144
Engine/airframe interference 03 p0319 N84-12085
Engine-airframe interference effects 03 p0319 N84-12086
Influence of the airframe on the performance of antennas for avionics 03 p0364 N84-12372
A review of Australian investigations on aeronautical fatigue during the period April 1981 to March 1983
[AD-A130968] 03 p0388 N84-12532
Deformation and fatigue of aircraft structural alloys
[AD-A133947] 05 p0654 N84-14297
Effect of blade structural parameters on helicopter vibrational characteristics
[AD-A134547] 07 p0951 N84-16174
Estimating the cost of composite material airframes using the Rand Corporation Development and Procurement Costs of Aircraft parametric model (DAPCA III)
[AD-A134993] 08 p1095 N84-17120
Use of small crack data to bring about and quantify improvements to aircraft structural integrity
[AD-A135012] 08 p1170 N84-17623
Airframe technology for aircraft energy efficiency --- economic factors
[NASA-TM-85749] 09 p1249 N84-18154
Development of fatigue and crack propagation design and analysis methodology in a corrosive environment for typical mechanically-fastened joints. Volume 2: State-of-the-art assessment
[AD-A136415] 09 p1331 N84-18692
An analysis of prop-fan/airframe aerodynamic integration
[NASA-CR-152186] 10 p1419 N84-19281
Optimization for vibration isolation
[AD-A137895] 11 p1668 N84-20886
Survey of NASA research on crash dynamics
[NASA-TP-2298] 12 p1826 N84-21901
A review study of nondestructive test techniques for residual stresses in aircraft transparencies
[AD-A138930] 13 p1930 N84-22555
Moisture transport in composites during repair work
[AD-A138658] 13 p1954 N84-22703
Development and demonstration of economic production systems in airframe construction. Part 2: Technological phase. Part 6: Review 14 p2093 N84-23555
Statistical and vibratory fatigue limit characteristics of aluminum cast alloys 14 p2093 N84-23558
Welding of components made of the aluminum cast alloy A357 14 p2094 N84-23561
The new calibration tank for engine simulators at DFVLR Goettingen 14 p2099 N84-23593
A technique for optimizing the aerodynamic design of a generalized combat aircraft with forward swept wings for the purposes of stability and control investigation
[CA-8325] 16 p2448 N84-25700
Uninstalled aero engine testing in operation in the Royal Air Force 16 p2453 N84-25731
Successful utilization of economic, light aluminum-casted structures in airplane construction
[VFW-31/83-O] 16 p2562 N84-26439
T-38 student windshield birdproofing efforts utilizing metal and composite materials for aft arch reinforcement
[AD-P003189] 17 p2590 N84-26602
Processing and properties of airframe materials
[AD-A140832] 17 p2624 N84-26797
Hygrothermal effects in continuous fibre reinforced composites. Part 1: Thermal and moisture diffusion in composite materials
[AD-A128228] 18 p2810 N84-27837
Report of an overseas visit to the USA, part 2
[AD-A142054] 19 p2955 N84-28729
High-performance, low-energy-curing resins
[AD-A141524] 19 p2998 N84-29000
Durability methods development, volume 7
[AD-A142400] 20 p3128 N84-29865
USAF durability design handbook: Guidelines for the analysis and design of durable aircraft structures
[AD-A142424] 20 p3128 N84-29866
Effects of variations in coldworking repair procedures on flaw growth and structural life
[AD-A141966] 20 p3202 N84-30336
A laboratory study of aircraft precipitation static charging
[AD-A142561] 21 p3443 N84-31848
Validation of an Active Gear, Flexible Aircraft Take-off and Landing analysis (AGFATL)
[NASA-TP-2353] 22 p3534 N84-32378
Rigid closed-cell polyimide foams for aircraft applications and foam-in-place technology
[NASA-CR-171805] 22 p3559 N84-32535

Experimental determination of the inertia constants of an airplane or of a missile
[NASA-TM-77767] 23 p3689 N84-33361
Nozzle performance calibration and turbomachinery operational analysis of Turbo-Powered Simulators (TPS) for the NASA-Langley EET propulsion airframe integration investigation
[NASA-CR-165949] 23 p3695 N84-33416
Manufacturing developments to reduce strategic materials usage 23 p3703 N84-33475
A formulation of rotor-airframe coupling for design analysis of vibrations of helicopter airframes
[NASA-RP-1089] 23 p3760 N84-33832
Improving the fatigue life of the Mirage IIIO wing main spar
[ARL-STRUC-REPT-396] 24 p3853 N84-34437

AIRGLOW
NT NIGHTGLOW
NT TWILIGHT GLOW
Tidal and solar cycle effects on the OI 5577 angstrom, NaD and OH(8,3)airglow emissions observed at 23 deg S
[INPE-2901-PRE/419] 02 p0248 N84-11620
OI 630.0 nm optical measurements of neutral winds, temperatures and airglow enhancements during the BIME program
[AD-A131695] 03 p0408 N84-12671
Summary of ionospheric heating experiments at Tromsoe (Norway) 05 p0635 N84-14178
Plasma particle acceleration due to emission of ground-based and onboard transmitters
05 p0636 N84-14181
Rocket exhaust effects as active space plasma experiments of opportunity 05 p0640 N84-14211
Carbon monoxide fourth positive ultraviolet airglow emissions on Venus 05 p0764 N84-15015
A study of the atmosphere and ionosphere using satellite observations of 300-1400 Ang airglow
[NASA-CR-173146] 07 p1028 N84-16663
Optical, radio and computer simulation studies of the Brazil ionospheric modification experiment of 8 September 1982
[AD-A135143] 08 p1186 N84-17731
Dual channel water vapor radiometer system
[PB84-119445] 08 p1189 N84-17746
Measurements in the presence of nonwhite noise — stellar spectrophotometry 09 p1411 N84-19224
Airglow morphology during an ionospheric heating experiment at Platteville, Colorado
[AD-A137869] 11 p1682 N84-20976
Equatorial plasma bubble eastward velocity characteristics from scanning airglow photometer measurements over Cachoeira Paulista
[INPE-3026-PRE/464] 12 p1847 N84-22039
Low latitude F-region studies using the OI6300 angstrom and 7744 angstrom nightglow measurements at Cachoeira Paulista, Brazil
[INPE-3025-PRE/463] 12 p1847 N84-22040

AIRLINE OPERATIONS
Aeronautics systems technology studies
[NASA-CR-174572] 02 p0167 N84-11098
Activities report of the aerospace industry in West Germany 03 p0328 N84-12139
Activities report of the aerospace industry in West Germany 03 p0328 N84-12140
Airport capacity alternatives 03 p0329 N84-12149
Deregulating the airlines: An economic analysis
[PB83-250019] 04 p0617 N84-14070
Economic cases of the Civil Aeronautics Board, Volume 101, April 1983 to May 1983
[PB84-127695] 09 p1405 N84-19183
Economic cases of the Civil Aeronautics Board, Volume 102, June 1983 to July 1983
[PB84-127703] 09 p1405 N84-19184
Developmental possibilities and restrictions in air transport — conferences
[ESA-TT-744] 10 p1423 N84-19307
Development possibilities in commercial air transport in the Federal Republic of Germany
10 p1423 N84-19308
The supplier: Constraints and prospects — civil air transport 10 p1424 N84-19311
The historical development and basis of human factors guidelines for automated systems in aeronautical operations
[NASA-CR-166560] 10 p1552 N84-20174
Safety recommendations A-84-8 and -9, and A-84-17 through -20 16 p2444 N84-25675
Safety recommendations A-84-14 and -15
16 p2444 N84-25678
Airline experience with avionic software development for aircraft integrated data systems
17 p2587 N84-26581
The reduction of life-cycle costs through continuing acrylic maintenance
[AD-P003224] 17 p2596 N84-26637
Flight Track and Aircraft Noise Monitoring System (FANAMOS)
[NLR-MP-83043-U] 17 p2725 N84-27343
Aircraft surface coatings
[NASA-CR-165928] 19 p2963 N84-28778
The changing airline industry: A status report through 1982
[GAO/RCED-83-179] 20 p3127 N84-29858
Legislation needed to clarify future of consumer protection and federal preemption after the Civil Aeronautics Board sunsets
[PB84-210103] 22 p3533 N84-32371

AIRLOCK MODULES
Spacelab scientific airlock 09 p1295 N84-18460

AIRPORT LIGHTS
NT RUNWAY LIGHTS

AIRPORT PLANNING
The air traffic planning coordinator of the Federal Republic of Germany
[FACHTHEMEN-5] 07 p0945 N84-16130
Federal Aviation Administration's system for prioritizing airport grants
[PB84-181650] 20 p3133 N84-29893
Airport safety technology: Washington National Airport
[GPO-34-406] 23 p3696 N84-33423
ARSSR civil aviation chief on Aerflot's work in Armenia 24 p3851 N84-34423

AIRPORT SECURITY
Semiannual report to Congress on the effectiveness of the civil aviation security program
[AD-A134860] 08 p1100 N84-17156
Missile system for low altitude air defence
21 p3351 N84-31255

AIRPORT SURFACE DETECTION EQUIPMENT
National airspace review benefits and costs
[FAA-AT-84-1] 19 p2961 N84-28765

AIRPORTS
NT HELIPORTS
Deputy Minister Svechnikov on civil aviation construction projects 01 p0001 N84-10003
Upgraded Yakutsk airport opens to IL-62 service
01 p0001 N84-10006
Uzbek SSR city of Shakhrisabz opens new airport: Tourism planned 01 p0001 N84-10007
Optimization of long range major rehabilitation of airfield pavements 02 p0182 N84-11181
Technology of airport safety
[GPO-24-762] 02 p0182 N84-11183
Determination of the Pavement Classification Number (PCN) of airfields
[ISBN-3-87977-0530] 02 p0182 N84-11185
Airport and air traffic control system
[OTA-STI-175] 03 p0329 N84-12143
Airport and air traffic control system. Executive summary 03 p0329 N84-12144
Airport and air traffic control system. Introduction and overview 03 p0329 N84-12145
Policy implications 03 p0329 N84-12150
Continued research on selected parameters to minimize community annoyance from airport noise
[NASA-CR-174607] 04 p0559 N84-13688
Airport noise control strategies
[AD-A133137] 06 p0908 N84-15900
Airport and aircraft safety research and technology
[GPO-26-497] 08 p1100 N84-17152
Climatic publications
[AD-A136021] 09 p1349 N84-18816
Development possibilities in commercial air transport in the Federal Republic of Germany
10 p1423 N84-19308
Transport infrastructure: Is planning still achievable — airport planning 10 p1424 N84-19310
Strategies for and validity of noise monitoring in the vicinity of civilian airfields and army installations
[AD-A137780] 11 p1729 N84-21279
Compilation of selected aviation laws
[GPO-99-811] 11 p1752 N84-21438
Simulation analysis and derivation of accuracy requirements for future terminal area navigation. Part 1: Single aircraft analysis
[BMFT-FB-W-83-035-PT-1] 12 p1768 N84-21535
Simulation analysis and derivation of accuracy requirements for future terminal area navigation. Part 2: Multi aircraft analysis
[BMFT-FB-W-83-036-PT-2] 12 p1769 N84-21536
Airfield delay simulation model (ADSIM) users guide
[PB84-171552] 17 p2611 N84-26715
Airport noise and land use compatibility at downstate Illinois airports
[PB84-177377] 17 p2611 N84-26716
Airfield Noise Evaluation Program (ANEP)
[VTH-LR-370] 17 p2725 N84-27342
Flight Track and Aircraft Noise Monitoring System (FANAMOS)
[NLR-MP-83043-U] 17 p2725 N84-27343
Safety study: Airport certification and operations
[PB84-917002] 19 p2960 N84-28761
A SLAM (Simulation Language for Alternative Modeling) airfield model for airlift operations
[AD-A141106] 19 p2960 N84-28762
Identification of exit taxiways (retroflective markers only)
[FAA-CT-83-5] 19 p2969 N84-28812
The performance of civil airport pavement with lime-cement-flyash base course
[FAA-PM-84-10] 19 p2969 N84-28815
Area equivalent method VISICALC (trade name). Users' guide
[AD-A141430] 19 p3084 N84-29572
Simulation procedure for the calculation of aircraft noise 19 p3100 N84-29692
Report of accomplishments under the airport improvement program
[AD-A142444] 20 p3132 N84-29889
Directional extreme wind speed data for the design of buildings and other structures
[PB84-178847] 20 p3171 N84-30139
Multi-variate acceptance plans for flexible airport pavements 21 p3345 N84-31220
Missile system for low altitude air defence
21 p3351 N84-31255
Aeroproyekt Institute's work in aviation facility design
23 p3687 N84-33370
Airport safety technology: Washington National Airport
[GPO-34-406] 23 p3696 N84-33423
ARSSR civil aviation chief on Aerflot's work in Armenia 24 p3851 N84-34423
Introduction to the airport improvement program
[AD-A144556] 24 p3857 N84-34454

AIRSHIPS
NT HEAVY LIFT AIRSHIPS
World and United States aviation and space records, as of June 1, 1983 01 p0001 N84-10009
Some trends in airship technology developments
[AGARD-R-717] 03 p0314 N84-12050
Aerodynamic forces on an airship hull in atmospheric turbulence
[UTIAS-277] 14 p2100 N84-23604
System safety and the Coast Guard lighter-than-air system project
[AD-A139807] 15 p2258 N84-24564
Airship proof-of-concept evaluation
[AD-A141759] 19 p2959 N84-28753

AIRSPACE
The FAA (Federal Aviation Administration) air traffic activity, fiscal year 1982
[PB83-228460] 01 p0008 N84-10048
General aviation single pilot IFR autopilot study
03 p0312 N84-12035
Aircraft over Steinberg (West Germany)
[REPT-5/1982] 10 p1424 N84-19316
Airfield delay simulation model (ADSIM) users guide
[PB84-171552] 17 p2611 N84-26715
National Airspace Review: Implementation plan
[AD-A145379] 21 p3327 N84-31107

AIRSPEED
Time controlled descent guidance algorithm for simulation of advanced ATC systems
[NASA-TM-84373] 01 p0007 N84-10043
Aircraft hazard assessment from a clear-air radar and meteorological tower study of gravity wave events — effect on airspeed
[PB83-257139] 05 p0710 N84-14650
An automated stall-speed warning system
[NASA-TM-84917] 11 p1607 N84-20520
Regression analysis technique for air data sensor calibration with an inertial navigation system
[DFVLR-MITT-84-03] 18 p2791 N84-27716
An experimental and theoretical investigation of deposition patterns from an agricultural airplane
[NASA-TP-2348] 23 p3689 N84-33379
Using an airborne CO2 CW laser for free stream airspeed and windshear measurements 24 p3850 N84-34417

AIRWORTHINESS
U AIRCRAFT RELIABILITY

AIRWORTHINESS REQUIREMENTS
U AIRCRAFT RELIABILITY

ALABAMA
Forest statistics for southwest-north Alabama counties
[PB83-251314] 04 p0556 N84-13662
Forest statistics for southwest-south Alabama counties, Forest Service resource bulletin
[PB83-249763] 04 p0556 N84-13664
Forest statistics for southeast Alabama counties, Forest Service resource bulletin
[PB83-250753] 04 p0556 N84-13666
Forest statistics for west central Alabama counties, Forest Service resource bulletin
[PB83-249961] 04 p0556 N84-13668

Application of remote sensing to state and regional problems
[E84-10128] 14 p2168 N84-23986
Water resources data for Alabama, water year 1982
[PB84-163250] 20 p3229 N84-30523
Investigation of several aspects of LANDSAT 4/5 data quality — California, Texas, Arkansas, Alabama, and Pacific Ocean
[E84-10024] 22 p3613 N84-32892

ALARMS
U WARNING SYSTEMS

ALASKA
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F. Cape Romanzof AFS, Alaska
[AD-A130206] 01 p0107 N84-10698
Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F. Cape Lisburne Alaska AFS
[AD-A131194] 01 p0109 N84-10705
Operation of a telemetered seismic network on the Alaska Peninsula
[DE83-016673] 02 p0250 N84-11636
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F. Indian Mountain AFS, Alaska
[AD-A131195] 02 p0255 N84-11668
Alaska's mineral resources
[DE83-016599] 03 p0401 N84-12623
Eielson AFB, Alaska. Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F
[AD-A134198] 07 p1036 N84-16723
King Salmon, Alaska. Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F
[AD-A134201] 07 p1037 N84-16726
Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F. Adak NAS, Alaska
[AD-A134203] 07 p1037 N84-16728
Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F. Elmendorf AFB, Alaska
[AD-A134206] 07 p1038 N84-16731
Limited Surface Observations Climatic Summary (LISOCS). Ft. Richardson, Alaska
[AD-A134207] 07 p1038 N84-16732
Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F. Galena AFS, Alaska
[AD-A134211] 07 p1039 N84-16736
Movement of satellite-tracked buoys in the Beaufort sea (1979-1981)
[AD-A133159] 07 p1041 N84-16748
Probable maximum precipitation and snowmelt criteria for southeast Alaska
[PB84-104371] 08 p1193 N84-17777
Water resources data for Alaska, water year 1982
[PB84-119569] 09 p1340 N84-18753
Fort Wainwright, Wainwright AAF, Alaska, Limited Surface Observations Climatic Summary (LISOCS)
[AD-A137574] 11 p1685 N84-20990
Planetary geomorphology field studies: Washington and Alaska 13 p2084 N84-23501
The Arctic platform in the national petroleum reserve in Alaska: Deposition, deformation and petroleum potential 14 p2164 N84-23959
Oil and gas resources of the North Slope, Alaska 14 p2164 N84-23960
Petroleum source rock richness, type and maturity for four rock units on the Alaskan North Slope: Are they sources for the two oil types? 14 p2164 N84-23961
Emerging recognition of the nonfuel mineral resources of Arctic Alaska 14 p2164 N84-23962
Coal occurrence, quality and resource assessment, national petroleum reserve in Alaska 14 p2164 N84-23963
Permafrost and the geothermal regime 14 p2165 N84-23964
Glaciation in Arctic Alaska 14 p2165 N84-23965
A pleistocene sand desert in Arctic Alaska 14 p2165 N84-23966
Sedimentary facies on an ice dominated shelf, Beaufort Sea, Alaska 14 p2165 N84-23967
Quaternary sedimentation on the Alaskan Beaufort shelf: Sediment sources, glacioeustatism and regional tectonics 14 p2165 N84-23968
Land cover and terrain mapping for the development of digital data bases for wildlife habitat assessment in the Yukon Flats National Wildlife Refuge, Alaska 14 p2166 N84-23971
Geochemical detection of prospective petroleum areas in Arctic regions 14 p2166 N84-23972
Hydrology of the North Slope, Alaska 14 p2166 N84-23973
Alaska's mineral resources
[DE84-006918] 14 p2170 N84-23998
Climatological frequency distributions for Juneau, Alaska
[PB84-154814] 14 p2180 N84-24059
Capabilities and limitations of existing MST radars: Poker Flat — Alaska 17 p2690 N84-27133
Panel 1A: Geologic studies related to oil and gas development in the EEZ 18 p2866 N84-28194
Panel 2A: Offshore oil and gas technology assessment 18 p2866 N84-28196
Preliminary guide to the onsite identification and delineation of the wetlands of Alaska
[AD-A142091] 19 p3042 N84-29299
Vertebrate behavior and ecology
[DE84-007318] 20 p3257 N84-30673
Surface winds in some Alaskan passes
[PB84-194745] 21 p3450 N84-31895
Topographic effects of the Alaskan stream on shelf currents
[PB84-205137] 22 p3628 N84-32988
Alaska Land Conveyance Program: A slow, complex and costly process
[PB84-207265] 22 p3674 N84-33294

ALBEDO
NT COSMIC RAY ALBEDO
NT EARTH ALBEDO
NT LUNAR ALBEDO
The lapse rate, surface albedo and global climatic stability: Experiments with an annual zonal energy balance model 02 p0246 N84-11610
Predictability of time averages: The influence of the boundary forcing
[NASA-TM-85092] 02 p0248 N84-11624
Principles of thermal remote sensing 05 p0695 N84-14565
LANDSAT-D investigations in snow hydrology
[E84-10074] 07 p1021 N84-16621
Determination of the planetary radiation budget from TIROS-N satellites
[PB84-100916] 08 p1189 N84-17748
Variation of arctic cloud cover in summer: Results through February 1983
[DE84-005098] 11 p1688 N84-21010
Atmospheric model development 13 p2004 N84-22998
Topography on Ganymede derived from photoclinometry 13 p2074 N84-23442
Classification of volcanoes of the Kane Patera Quadrangle of Io: Proportions of lava flows and pyroclastic flows 13 p2080 N84-23477
Vegetation, land-use and seasonal albedo data sets: Documentation of archived data tape
[E84-10133] 15 p2357 N84-25142
Preliminary results of albedo correlation between Europa and Ganymede 15 p2427 N84-25561
Quantities of interest to climatology and atmospheric physics, volume 2 16 p2529 N84-26239
Temporal albedo variations in Saturn's atmosphere 17 p2776 N84-27627
New technique to improve the accuracy of albedo neutron dosimeter evaluations
[DE84-002458] 19 p3027 N84-29201
Observations of radiation exchange above and below Amazonian forest
[INPE-3194-PRE/558] 21 p3447 N84-31870

ALCOHOLS
NT BISPHENOLS
NT ETHYL ALCOHOL
NT GLYCOLS
NT ISOPROPYL ALCOHOL
NT METHYL ALCOHOLS
NT PHENOLS
NT POLYVINYL ALCOHOL
Sol-gel transition in simple silicates, 2
[DE83-013975] 01 p0051 N84-10329
Analysis and synthesis of 1,2,4-butanetriol
[AD-A130875] 01 p0052 N84-10338
Effect of low-proof fuel alcohol on crankcase oil dilution in an Otto-cycle engine
[DE83-016425] 01 p0091 N84-10594
Insulin and cortisol improve heat tolerance in isolated perfused rat liver
[AD-A133382] 07 p1042 N84-16758
Alcohol fuels: Options for developing countries
[PB84-129808] 09 p1291 N84-18428
Water and alcohol use in automotive diesel engines: Alternative Fuels Utilization Program
[DE84-004196] 10 p1470 N84-19603
Statistical review of alcohol-involved aviation accidents
[NTSB-SS-84-03] 16 p2445 N84-25681
Promotion effects on the synthesis of higher alcohols
[DE84-009916] 20 p3166 N84-30109
Research and development of alcohol fuel usage in spark ignited engines
[DE84-011177] 21 p3374 N84-31412

ALDEHYDES
NT ACROLEINS
NT FORMALDEHYDE

ALDOSTERONE
Age-related responses to de- and hyperhydration 21 p3452 N84-31905

ALERTNESS
The programming and validation of the computerised version of the intermediate mental alertness test
[CSIR-PERS-303] 04 p0573 N84-13776
The effects of sleep loss and sustained mental work: Implications for command and control performance 11 p1697 N84-21069
Adaptation to irregularity of rest and activity 11 p1697 N84-21070
Some issues in research on effects of sustained work and sleep loss on performance 11 p1697 N84-21071

ALEUTIAN ISLANDS (US)
Operation of a telemetered seismic network on the Alaska Peninsula
[DE83-016673] 02 p0250 N84-11636
Sea level variations and ocean dynamics in the Aleutian Islands
[AD-A139421] 14 p2183 N84-24079

ALFVEN WAVES
U MAGNETOHYDRODYNAMIC WAVES

ALGAAS
U ALUMINUM GALLIUM ARSENIDES

ALGAE
NT BLUE GREEN ALGAE
NT MICROCYSTIS
Phytochrome from green plants: Assay, purification, and characterization
[DE83-017447] 03 p0414 N84-12710
Yields photosynthetic efficiencies, and proximate chemical composition of dense cultures of marine microalgae, a subcontract report
[DE83-011992] 04 p0570 N84-13757
Suggestions concerning technological research and development for the purpose of industrial use of marine algae
[ISSN-0077-5606] 05 p0711 N84-14661
Identification of a volatile phytotoxin from algae 09 p1358 N84-18876
Prochloron research
[NASA-CR-173264] 10 p1543 N84-20113
Prochloron on synaptula 10 p1543 N84-20114
A comparative study of the fatty acid composition of prochloron lipids 10 p1544 N84-20115
Prochloron 10 p1544 N84-20116
Prochloron-ascidian symbioses: Photosynthetic potential and productivity 10 p1544 N84-20117
Diurnal rhythm in the cell-division frequency of prochloron (prochlorophyta) in nature 10 p1544 N84-20118
Chlorophyll and carotenoid pigments of prochloron (prochlorophyta) 10 p1544 N84-20119
Prochloron expedition 10 p1544 N84-20120
Report of Prochloron research 10 p1544 N84-20121
Report of prochloron research, IPE-7 (Palau, February 1982) 10 p1544 N84-20122
IPE 7 10 p1545 N84-20123
Prochloron expedition 10 p1545 N84-20124
Checklist and bibliography of benthic marine macroalgae recorded from northern Australia. 1: Rhodophyta
[MRL-R-912] 11 p1692 N84-21039
A first evaluation of LANDSAT TM data to monitor suspended sediments in lakes 20 p3215 N84-30425
Salinity and temperature effects on photosynthesis and organic carbon release rates by selected benthic macroalgae
[PB84-163146] 20 p3257 N84-30674

ALGAL BLOOM
U ALGAE

ALGEBRA
NT ADJOINTS
NT AUTOMORPHISMS
NT BANACH SPACE
NT BINOMIALS
NT CANONICAL FORMS
NT CUBIC EQUATIONS
NT DETERMINANTS
NT DYADICS
NT EIGENVALUES
NT EIGENVECTORS
NT GROUP THEORY
NT HERMITIAN POLYNOMIAL
NT HILBERT SPACE
NT HOMOMORPHISMS
NT JORDAN FORM
NT LIE GROUPS
NT LINEAR EQUATIONS
NT LINEAR EVOLUTION EQUATIONS
NT MATRICES (MATHEMATICS)

NT MONOIDS
NT NONLINEAR EQUATIONS
NT NONLINEAR EVOLUTION EQUATIONS
NT POLYNOMIALS
NT QUADRATIC EQUATIONS
NT SOBOLEV SPACE
NT STATE VECTORS
NT STIFFNESS MATRIX
NT STRESS TENSORS
NT SUBGROUPS
NT TENSORS
NT VECTOR SPACES
NT VECTORS (MATHEMATICS)
NT VORTICITY
KWIC index for numerical linear algebra
[DE83-014869] 01 p0135 N84-10882
The effects of small noise on implicitly defined non-linear dynamical systems
[AD-A131632] 03 p0428 N84-12806
The specific solutions of a uniform algebraic differential equation of the second order 04 p0575 N84-13790
Convolution of generalized vector measures 04 p0577 N84-13803
Concurrency control for resilient nested transactions
[AD-A132501] 04 p0589 N84-13891
Splice and Malcev algebras 04 p0593 N84-13911
Combining testing with formal specifications: A case study
[AD-A134110] 05 p0726 N84-14764
A 2-tiered approach to specifying programs
[AD-A133949] 05 p0727 N84-14775
Stability analysis for difference schemes, problems in applied linear algebra, and application of number theory to computing
[AD-A133654] 05 p0735 N84-14825
A new numerical method for the transient gas-dyanmic code EVENT
[LA-9594-MS] 06 p0920 N84-15977
Algebraic tools for system construction
[MC-IW-234/83] 07 p1053 N84-16820
Projective monads and extensions of functors
[MC-ZW-195/83] 07 p1065 N84-16909
An abstraction mechanism for process algebra
[MC-IW-231/83] 07 p1066 N84-16916
An algebraic specification method for processes over a finite action set
[MC-IW-232/83] 07 p1066 N84-16917
The algebra of recursively defined processes and the algebra of regular processes
[MC-IW-235/83] 07 p1066 N84-16918
On specifying sets of integers
[MC-IW-237/83] 07 p1066 N84-16919
Current algebras and the identification problem
[MC-BW-187/83] 07 p1066 N84-16923
An algebraic approach to analysis and control of time-scales
[AD-A135115] 08 p1218 N84-17949
Diophantine equations 08 p1225 N84-18004
The numerical solution of incompressible Navier-Stokes equations
[AD-A136156] 09 p1316 N84-18597
Research in algebraic manipulation
[AD-A137742] 11 p1713 N84-21171
User-friendly interface to the Roth relational database
[AD-A136153] 12 p1877 N84-22234
Optical systolic solutions of linear algebraic equations 12 p1905 N84-22405
The operator mapping between relational algebra operators and CODASYL based databases managed by a CODASYL DBMS
[AD-A138117] 12 p1918 N84-22497
Annals of the Fourier Institute, volume 33, no. 4
[ISSN-0373-0956] 13 p2031 N84-23172
The Fourier Plancherel transform of the analytic Lie group. 1: Weyl algebras and differential operators 13 p2032 N84-23176
Process algebra semantics for queues
[MC-IW-241/83] 13 p2037 N84-23219
Quotient algebras for logics of imprecision
[AD-P002330] 14 p2189 N84-24121
Quasitransitive algebras
[AD-P002343] 14 p2191 N84-24134
An algebraic method for hazard analysis with the maximum number of spikes in combinational and sequential circuits
[AD-P002369] 14 p2194 N84-24160
Mix, A mix-valued algebra
[AD-P002371] 14 p2195 N84-24162
A minimization method for engineering estimation
[AD-P002372] 14 p2195 N84-24163
Annals of the Fourier Institute, volume 33, no. 3
[ISSN-0373-0956] 14 p2210 N84-24264
Stability of C* algebras of a foliated manifold 14 p2211 N84-24273
Best approximation in L sub p (W) by algebraic polynomials
[CTH-MATH-1983-20] 14 p2215 N84-24307
Remarks concerning the application of polynomial zeroing methods on the algebraic eigenvalue problem 16 p2541 N84-26309
Analytical solution of 1st and 2nd ordinary differential equations using the REDUCE 2 algebra manipulation program
[NASA-TM-77446] 16 p2548 N84-26351
Design of an integrated software system based on the relational data base model
[AD-A140628] 17 p2752 N84-27470
Algebra of communicating processes with abstraction
[CWI-CS-R8403] 17 p2754 N84-27485
Investigation of three dimensional mesh generation with precise controls
[AD-A142246] 19 p3089 N84-29614
Conduct of the International Multigrid Conference
[NASA-CR-173823] 19 p3090 N84-29618
PASCAL-MP: A language for the algebraic and numerical manipulation of polynomials
[INPE-3057-PRE/477] 23 p3814 N84-34183

ALGORITHMS
NT PARSING ALGORITHMS
NT SIMPLEX METHOD
The CEMS (Comprehensive Engine Management System) IV OAP (Oil Analysis Program) algorithm
[AD-A131055] 01 p0011 N84-10072
Application of an adaptive blade control algorithm to a gust alleviation system
[NASA-TM-85848] 01 p0012 N84-10079
Analysis of the Howells-Applebaum algorithm in the presence of moving interference. The use of lattice filters in daptive array processors. Stability analysis of LMS adaptive filters. Adaptive array processors with moving interference
[AD-A130218] 01 p0063 N84-10413
Low-input-harmonics power supplies
[AD-A130337] 01 p0071 N84-10482
Research on algorithms for adaptive array antennas
[AD-A131064] 01 p0072 N84-10469
Interactive raster data structure study
[AD-A130195] 01 p0100 N84-10649
Description of NCAR (National Center for Atmospheric Research) community climate model (CCMOB)
[PB83-231066] 01 p0110 N84-10715
Dynamic programming algorithms and analyses for nonserial networks, part 1
[AD-A130885] 01 p0122 N84-10795
Algorithms for nonlinear programming
[AD-A130903] 01 p0122 N84-10796
Dynamic programming algorithm and analyses for nonserial networks, part 2
[AD-A130905] 01 p0123 N84-10798
A study of texture analysis algorithms
[AD-A131498] 01 p0123 N84-10802
Using the glyph concept to create user-definable display formats
[DE83-013831] 01 p0124 N84-10806
Computational experience in solving equilibrium models by a sequency of linear complementarity problems
[DE83-011189] 01 p0124 N84-10811
A subdivision algorithm in configuration space for findpath with rotation
[AD-A130565] 01 p0130 N84-10850
Accurate computation of divided differences of the exponential function
[AD-A130306] 01 p0132 N84-10865
Incomplete-Cholesky factorization by a matrix-partition algorithm
[DE83-013044] 01 p0134 N84-10879
Numerical solution of systems of simultaneous polynomial equations
[DE83-015832] 01 p0135 N84-10883
Modified quasilinearization algorithm for optimal control problems with nondifferential constraints and general boundary conditions. Part 1: Theory
[PB83-226944] 01 p0135 N84-10885
Modified quasilinearization algorithm for optimal control problems with nondifferential constraints and general boundary conditions. Part 2: Examples
[PB83-226936] 01 p0135 N84-10886
The use of an adaptive grid in a solution of the Navier-Stokes equations for incompressible flow 02 p0173 N84-11139
Significance of a wall effect in enclosures with growing fires
[PB83-235671] 02 p0192 N84-11247
Assessment of potential SSM/I (Special Sensor Microwave/Imager) ice products in light ESMR (Electrically Scanning Microwave Radiometer) and SMMR (Scanning Microwave Spectrometer) ice classification algorithms
[AD-A130961] 02 p0239 N84-11570
Computational studies in the interpretation of structure and motion: Summary and extension
[AD-A131598] 02 p0265 N84-11746
An algorithm for multiple target tracking and data correlation
[AD-A131313] 02 p0273 N84-11786
Draft remarks for the IFIPS Congress 1983 panel on how to obtain high performance for high-speed processors
[DE83-012669] 02 p0277 N84-11814
A multiple shooting algorithm for direct solution of optimal control problems
[PREPRINT-589] 02 p0279 N84-11827
LLNL Basic Energy Sciences Program in numerical methods for partial differential equations
[DE83-016531] 02 p0283 N84-11852
Computational experience with the octahedral algorithm and related results
[DE83-015834] 02 p0283 N84-11854
A new algorithm for constrained nonlinear least-squares problems, part 1
[NASA-CR-174480] 02 p0283 N84-11855
Transient electron transport in gases
[DE83-009188] 02 p0291 N84-11906
Three-dimensional feature extraction
[AD-A131333] 02 p0294 N84-11926
Decentralized control of scheduling in distributed processing systems
[AD-A131548] 02 p0301 N84-11976
Application of computational procedures in aerodynamic design 03 p0318 N84-12078
Progress on ultrasonic flaw sizing in turbine-engine rotor components: Bore and web geometries
[DE83-018081] 03 p0333 N84-12167
Preliminary data processing plan for the thermal plasma experiment on the HILAT satellite
[AD-A132017] 03 p0340 N84-12209
Tracking theory for airborne surveillance radars
[AD-A131792] 03 p0361 N84-12350
Optimum reception in non-Gaussian electromagnetic interference environments. Part 2: Optimum and suboptimum threshold signal detection in class A and B noise
[PB83-241141] 03 p0363 N84-12364
Inverse born approximation: Exact determination of shape of convex voids
[DE83-017685] 03 p0385 N84-12512
Spline classification methods 03 p0393 N84-12564
Description of an automatic seismic measurements package: Analysis and design goals
[AD-A132067] 03 p0407 N84-12666
Evaluation of automated imagery analysis algorithms for use in the three-dimensional nephanalysis model at AFGWC (Air Force Global Weather Central)
[AD-A131986] 03 p0410 N84-12686
Mesocyclone detection and classification algorithm
[AD-A131626] 03 p0411 N84-12691
Numerical solution of the three-dimensional unsteady Euler equations
[AD-A132034] 03 p0425 N84-12783
The effect of coordinate system rotation on spherical harmonic expansions: A numerical method
[AD-A131974] 03 p0425 N84-12785
Lecture notes for contact-impact algorithms for large-deformation finite-element analysis
[DE83-013039] 03 p0426 N84-12789
Rank modification method for certain singular systems of linear equations 03 p0427 N84-12797
An alternative to the Monte Carlo estimation of network reliability
[AD-A131849] 03 p0427 N84-12800
On the performance of two-stage group screening experiments
[AD-A131970] 03 p0428 N84-12807
The effect of noisy reflection data on an inverse method for determining the structure of a layered ocean bottom
[AD-A131976] 03 p0430 N84-12820
Methods for deconvoluting and interpreting complex gamma and X-ray spectral regions
[DE83-013585] 03 p0454 N84-12991
The computer fire codes and required new data 04 p0513 N84-13369
Algorithms for single-signal and multisignal minimum-cross-entropy spectrum analysis
[AD-A132400] 04 p0520 N84-13420
Outline of methods for design of superconducting turbogenerators
[AD-A132528] 04 p0525 N84-13451
Computer-aided synthesis and design of monolithic microwave GaAs MESFET amplifiers
[AD-A132474] 04 p0525 N84-13452
Computations of turbulent recirculating flows with fully coupled solution of momentum and continuity equations
[DE84-001529] 04 p0535 N84-13518

Fully-coupled solution of pressure-linked fluid flow equations
[DE83-017989] 04 p0536 N84-13527
Modelling of submerged cable dynamics
[AD-A132495] 04 p0544 N84-13580
Solution of groundwater-flow equations using an orthogonal finite-element scheme
[DE84-000690] 04 p0554 N84-13648
Scheduling supercomputers
[AD-A132512] 04 p0579 N84-13822
The design of backtrack algorithms
[AD-A132299] 04 p0580 N84-13828
Algorithms for automated diagnosis of faults in physical plant
[DE84-000192] 04 p0582 N84-13841
Computer implementation, accuracy, and timing of radiation view-factor algorithms
[DE83-017618] 04 p0583 N84-13849
Acceleration of convergence of vector sequences
[NASA-TP-2193] 04 p0588 N84-13885
Concurrency control for resilient nested transactions
[AD-A132501] 04 p0589 N84-13891
Curve fit technique for a smooth curve using Gaussian sections
[AD-A132499] 04 p0589 N84-13893
Analysis-plot generation code with significance levels computed using Kolmogorov-Smirnov statistics valid for both large and small samples
[DE84-001581] 04 p0592 N84-13907
An introduction to the parabolic equation for acoustic propagation
[AD-A132315] 04 p0595 N84-13925
Ultrasonic 3-D reconstruction of inclusions in solids using the inverse Born algorithm
[DE83-018082] 04 p0595 N84-13928
A polarization diversity radar data processor
[AD-A134011] 05 p0666 N84-14382
Optimal approximation algorithms for digital filter design 05 p0673 N84-14420
Fast convolution algorithms and associated VHSIC architectures
[AD-A133851] 05 p0674 N84-14432
A solution-adaptive finite-volume algorithm with application to problems in planetary entry 05 p0678 N84-14457
Computational methods for complex flowfields
[AD-A133970] 05 p0680 N84-14467
Three-dimensional magnetotelluric interpretation 05 p0706 N84-14632
Space-time algorithms: Semantics and Methodology 05 p0721 N84-14726
Generating data flow programs from nonprocedural specifications
[AD-A132609] 05 p0728 N84-14780
Analysis of a network structure for algorithm testing — communication networks
[FUB-1-1983] 05 p0732 N84-14804
Tests of an inversion algorithm for spectrally resolved limb emission
[AD-A134128] 05 p0733 N84-14814
Bayes smoothing algorithms for segmentation of images modelled by Markov random fields
[AD-A133966] 05 p0734 N84-14817
Ordering methods for sparse matrices
[AD-A133657] 05 p0735 N84-14824
Ellipsoid algorithm variants in nonlinear programming
[AD-A132599] 05 p0735 N84-14826
Numerical analysis of a Stefan problem
[AD-A132823] 05 p0737 N84-14838
Implementation of a subgradient projection algorithm II
[AD-A132835] 05 p0737 N84-14841
Comparison of arithmetic requirements for the PFA (Prime Factor Algorithm), WFTA (Winograd Fourier Transform Algorithm), SWIFT, MFFT (Mixed radix fast Fourier transform), FFT (Fast Fourier Transform) and DFT (Discrete Fourier Transform) algorithms
[AD-A133087] 05 p0738 N84-14847
Vectorization of algorithms for solving systems of elliptic difference equations
[DE83-014125] 05 p0738 N84-14848
A horizontal range versus depth solution of sound source position under general sound velocity conditions using the Lloyd's mirror interference pattern
[AD-A134097] 05 p0742 N84-14875
A comprehensive description of the mission sensor microwave imager (SSM/I) environmental parameter extraction algorithm
[AD-A134052] 05 p0759 N84-14976
Design considerations for remotely piloted, high-altitude airplanes powered by microwave energy
[NASA-TM-85730] 06 p0786 N84-15145
Stability of mechanical properties of cold-drawn rolled metal with high-temperature thermomechanical treatment
[BLL-M-35292-(5828.4)] 06 p0803 N84-15233
Dynamic control of session input rates in communication networks
[AD-A133572] 06 p0825 N84-15379
Second-order adaptive infinite impulse response filter
[DE84-001768] 06 p0831 N84-15406
Fully coupled calculation of fluid flows with limited use of computer storage
[DE84-002218] 06 p0844 N84-15508
Digital multishaker modal testing
[NASA-CR-170951] 06 p0847 N84-15522
Support for the Naval Research Laboratory Environmental Passive Microwave Remote Sensing Program
[AD-A133330] 06 p0847 N84-15526
General method for fatigue analysis of vertical axis wind turbine blades
[DE84-002654] 06 p0861 N84-15613
Development of visible/infrared/microwave agriculture classification and biomass estimation algorithms, volume 2 — Oklahoma and Texas
[E84-10059] 06 p0864 N84-15629
Adaptive protection of detecion systems operating by spread spectrum 06 p0868 N84-15652
A comparison of NMC models (1977) on precipitation forecasts for east coast cyclogenesis 06 p0879 N84-15720
Implementation of automatic focusing algorithms for a computer vision system with camera control
[AD-A133492] 06 p0894 N84-15807
Tailored testing theory and practice: A basic model, normal ogive submodels, and tailored testing algorithms
[AD-A133385] 06 p0897 N84-15824
A survey of network reliability
[AD-A133545] 06 p0899 N84-15835
Direct multivariable model reference adaptive control with applications to large structural systems 06 p0900 N84-15840
An algorithm for detecting a change in stochastic process
[AD-A134104] 06 p0900 N84-15842
Application of the Gibbs distribution to image segmentation
[AD-A133406] 06 p0901 N84-15850
The travelling salesman problem in graphs with 3-edge cutsets
[AD-A133504] 06 p0902 N84-15852
Analytical and numerical solution for a solidifying liquid alloy slab 06 p0927 N84-16025
Computer control of a seven degree of freedom manipulator arm 06 p0931 N84-16051
Gravitational orientation of the orbital complex, Salyut-6–Soyuz
[NASA-TM-77299] 07 p0961 N84-16228
Presentation of a new adaptive intraframe prediction procedure — television signals
[IND-FB-112] 07 p0994 N84-16446
Theory of pulse propagation in fluid saturated porous layers
[DE84-002714] 07 p1003 N84-16503
Large deformation analysis of a cylindrical shell under pure bending and pressurization 07 p1015 N84-16582
Human factors products: A one-act play with epilogue
[AD-A133354] 07 p1052 N84-16811
Some efficient random number generators for micro computers
[AD-A134558] 07 p1053 N84-16815
Performance criteria for comparing constrained nonlinear programming codes
[CSIR-TWISK-279] 07 p1053 N84-16822
A computer program for reliability evaluation of large-scale undirected networks via polygon-to-chain reductions
[AD-A134190] 07 p1054 N84-16826
ARIES: A computer program for the solution of first kind integral equations with noisy data
[DE84-003908] 07 p1056 N84-16838
Guidelines for the design of large modular scientific libraries in Ada
[MW-NN-31/83] 07 p1056 N84-16840
Introduction to self-tuning controllers 07 p1057 N84-16846
Parallel algorithms in combinatorial optimization: An annotated bibliography
[MC-BW-189/93] 07 p1058 N84-16853
Segmented testing
[NASA-CR-173188] 07 p1058 N84-16855
Sensory redundancy management: The development of a design methodology for determining threshold values through a statistical analysis of sensor output data
[NASA-CR-173270] 07 p1059 N84-16859
A convex hull algorithm for planar simple polygons
[CSIR-TWISK-290] 07 p1059 N84-16864
On conditions for success of Sklansky's convex hull algorithm
[CSIR-TWISK-282] 07 p1059 N84-16866
Sea height information from complex SAR data
[NASA-CR-173199] 07 p1060 N84-16872
A novel algorithm for sea surface height estimation using complex SAR data 07 p1060 N84-16873
Optimal inference with chaotic dynamics 07 p1060 N84-16875
The use of refined error bound when updating eigenvalues of tridiagonals
[AD-A134163] 07 p1061 N84-16879
An approach to rotation invariant texture classification and some experimental results
[AD-A134197] 07 p1061 N84-16881
A characterization of an element of best simultaneous approximation
[AD-A134542] 07 p1063 N84-16893
Projection pursuit regression: Some mathematics
[AD-A134544] 07 p1063 N84-16894
Triangulations (tilings) and certain block triangular matrices
[DE84-003579] 07 p1064 N84-16902
Weighted decoding, by lattice, of linear block codes
[ENST-E-83008] 07 p1064 N84-16903
Robust estimation with censored and grouped data: An application of the EM algorithm
[MATHS-RES-174] 07 p1067 N84-16927
Solving uninterpreted equations with context free expression grammars
[AD-A133613] 07 p1085 N84-17055
A comparison of two position estimate algorithms that use ILS localizer and DME information. Simulation and flight test results
[NASA-TP-2281] 08 p1102 N84-17165
Breadboard stellar tracker system test report
[NASA-CR-170973] 08 p1102 N84-17166
Study on optimal tracking strategy — satellite tracking
[GMV-211/83] 08 p1113 N84-17243
Coding of full motion color video signals at 50 kb/s
[AD-A134319] 08 p1146 N84-17456
Real-time implementation of a speech digitization algorithm combining time-domain harmonic scaling and adaptive residual coding, volume 1
[AD-A135232] 08 p1150 N84-17485
Real-time implementation of a speech digitization algorithm combining time-domain harmonic scaling and adaptive residual coding, volume 2
[AD-A135233] 08 p1150 N84-17486
Testability of interconnection structures
[AD-A135431] 08 p1168 N84-17607
Design and complexity of VLSI algorithms 08 p1208 N84-17876
On acyclic database decompositions
[AD-A135105] 08 p1209 N84-17887
Modelling algorithm execution time on processor arrays
[NASA-CR-172269] 08 p1211 N84-17899
Computer networks without a shared memory AFOSR-81-0197
[AD-A135074] 08 p1215 N84-17927
Estimation techniques for transport equations
[AD-A135092] 08 p1218 N84-17945
Spline-based estimation techniques for parameters in elliptic distributed systems
[NASA-TM-85439] 08 p1218 N84-17947
Algorithms, modeling and estimation for linear systems
[AD-A135134] 08 p1218 N84-17951
Matrix-free methods in the solution of stiff systems of ODE's
[DE84-003361] 08 p1221 N84-17974
Statistical data processing, system modeling and reliability
[AD-A135208] 08 p1223 N84-17984
Factorization algorithms of exponential order 08 p1224 N84-17994
Analysis and comparison of some integer factoring algorithms 08 p1224 N84-17995
Quadratic fields and factorization 08 p1225 N84-18002
Multi-dimensional continued fraction algorithms 08 p1225 N84-18003
The program complexity of searching a table
[AD-A135299] 08 p1240 N84-18104
Distributed algorithms for various problems
[AD-A135452] 08 p1240 N84-18105
Strapdown inertial guidance system: Onboard software and its evaluation
[NAL-TR-775] 09 p1254 N84-18184
Quantization and detection in signal processing
[AD-A136560] 09 p1299 N84-18494
Multi-dimensional signal processing research program
[AD-A135732] 09 p1302 N84-18511
The vocoder project
[AD-A135820] 09 p1302 N84-18512
Research in VLSI (Very Large Scale Integration) systems
[AD-A136413] 09 p1307 N84-18542

Princeton VLSI project
[AD-A136553] 09 p1308 N84-18548
A structured design methodology for VLSI systems
[AD-A135725] 09 p1308 N84-18554
Efficient finite element methods for transient nonlinear analysis of shells
[AD-A138044] 09 p1333 N84-18701
Simulation of Thematic Mapper data for remote bathymetry
[AD-A136377] 09 p1337 N84-18728
A CRAY-Class multiprocessor simulator
[AD-A136555] 09 p1365 N84-18913
An image processing language
[AD-A135865] 09 p1368 N84-18926
Analysis of reliable multicast algorithms for local networks
[AD-A135807] 09 p1369 N84-18935
Squeezing the most out of an algorithm in Cray FORTRAN
[DE84-003871] 09 p1369 N84-18941
Linear complementarity problems solvable by an efficient polynomially bounded pivoting algorithm
[AD-A136405] 09 p1374 N84-18977
On the representation of a basis for the null space
[AD-A136419] 09 p1375 N84-18979
An adaptive, noise tolerant, frequency extrapolation algorithm for diffraction corrected ultrasound tomography
[AD-A136455] 09 p1375 N84-18982
Development of realistic algorithms for matrix computations on parallel computers
[AD-A136570] 09 p1376 N84-18990
Fixed point implementations of fast Kalman algorithms
[AD-A136188] 09 p1378 N84-19005
Recursive interpolation of space-limited scenes
[AD-A136215] 09 p1379 N84-19007
Factorization using the quadratic sieve algorithm
[DE84-004140] 09 p1379 N84-19010
Algorithms for computing (H sup (infinity symbol)) optimal transfer functions
[PB84-127448] 09 p1380 N84-19015
The Jack Kiefer-Jacob Wolfowitz Memorial Statistical Research Conference
[AD-A136490] 09 p1381 N84-19021
A multivariable regression algorithm
[AD-A136630] 09 p1382 N84-19026
Convergence theories of distributed iterative process: A survey
[AD-A135875] 09 p1382 N84-19027
Dynamic sequence assignment
[AD-A136548] 09 p1384 N84-19037
Concurrent algorithms as space-time recursion equations 09 p1400 N84-19143
A formal derivation of array implementations of FFT algorithms 09 p1400 N84-19144
Problem-oriented specification of concurrent algorithms 09 p1400 N84-19145
Digital signal processing structures for VLSI 09 p1401 N84-19149
Linear or square array for eigenvalue and singular value decompositions? 09 p1401 N84-19150
Impact of VLSI on modern signal processing 09 p1402 N84-19155
An approach to reliable parallel data processing 09 p1402 N84-19157
VLSI architectures for recognition of context-free languages 09 p1402 N84-19160
Parallel algorithms for image analysis, extended summary 09 p1402 N84-19161
A classification algorithm for star-galaxy counts 09 p1409 N84-19207
Statistical determination of the precision obtained by a photometric reduction algorithm 09 p1410 N84-19217
An investigation of new possibilities to simplify the standard supersonic area rule
[AD-A137016] 10 p1422 N84-19297
Automated en route air traffic control algorithmic specifications. Volume 3: Flight plan conflict probe
[AD-A136795] 10 p1425 N84-19319
Automated en route air traffic control algorithmic specifications. Volume 4: Sector workload probe
[AD-A136796] 10 p1425 N84-19320
A comparison of two extended Kalman filter algorithms for air-to-air passive ranging
[AD-A136838] 10 p1426 N84-19323
Automated en route air traffic control algorithmic specifications. Volume 2: Airspace probe
[AD-A136850] 10 p1426 N84-19324
Automated en route air traffic control algorithmic specifications. Volume 5: Data specification
[AD-A136851] 10 p1426 N84-19325
Position determination with Loran-C triplets using the Hewlett-Packard HP-67C, the Sharp PC-1500 (TRS-80 PC-2) or the Radio Shack TRS-80 model 100 portable computers
[AD-A137009] 10 p1426 N84-19327
Automated en route air traffic control algorithmic specifications. Volume 1: Trajectory estimation
[AD-A137068] 10 p1426 N84-19328
An open loop missile evasion algorithm for fighters
[AD-A136834] 10 p1428 N84-19339
The Telecommunications and Data Acquisition Report
[NASA-CR-173263] 10 p1473 N84-19621
Another look at the optimum frequencies for a water vapor radiometer 10 p1473 N84-19622
Simulations for full unit-memory and partial unit-memory convolutional codes with real-time minimal-byte-error probability decoding algorithm 10 p1474 N84-19629
Signal-to-noise ratio and combiner weight estimation for symbol stream combining 10 p1474 N84-19630
A systolic VLSI design of a pipeline Reed-Solomon decoder 10 p1474 N84-19631
Distributed optimization algorithms with communications
[AD-A137476] 10 p1480 N84-19672
Adaptive cancellation techniques
[AD-A136946] 10 p1481 N84-19680
Analytical studies of turbulent flow fields
[AD-A137008] 10 p1493 N84-19761
The Shock and Vibration Bulletin. Part 1: Welcome, keynote address, invited papers, pyrotechnic shock, and shock testing and analysis
[AD-A134452] 10 p1507 N84-19866
Shock spectral analysis by personal computer, using the IFT algorithm 10 p1509 N84-19875
Efficient algorithms for calculating shock spectra on general purpose computers 10 p1509 N84-19878
Error analysis of satellite derived radiation flux densities 10 p1534 N84-20047
Estimation of planetary albedo and emission over the Tibetan plateau from AVHRR data 10 p1536 N84-20083
Explaining complex engineered devices
[AD-A136790] 10 p1554 N84-20186
Nonlinear prediction of head movements for helmet-mounted displays
[AD-A136590] 10 p1555 N84-20192
Implementation of a reliability shorthand on the Apple 2(+) microcomputer
[AD-A136778] 10 p1557 N84-20203
Mathematical algorithms to maximize performance in numerical weather prediction 10 p1558 N84-20209
Adapting iterative algorithms for solving large sparse linear systems for efficient use on the CDC CYBER 205 10 p1560 N84-20220
Fundamental organometallic reactions: Applications on the CYBER 205 10 p1560 N84-20221
Efficient spares matrix multiplication scheme for the CYBER 203 10 p1561 N84-20225
Algorithms for solving large sparse systems of simultaneous linear equations on vector processors 10 p1561 N84-20227
Preliminary results in implementing a model of the world economy on the CYBER 205: A case of large sparse nonsymmetric linear equations 10 p1561 N84-20228
Vectorization of a penalty function algorithm for well scheduling 10 p1562 N84-20233
Spectral methods in time for hyperbolic equations
[NASA-CR-172302] 10 p1568 N84-20274
Efficient computation of the k-terminal reliability of directed acyclic networks
[AD-A136900] 10 p1570 N84-20286
Further development of a computer algorithm for the automatic determination of space vehicle potential in real time
[AD-A137041] 10 p1571 N84-20292
Factorization using the quadratic sieve algorithm
[DE84-004996] 10 p1572 N84-20299
An improved version of the chamfer matching algorithm — for image processing
[FOA-C-30344-E1] 10 p1572 N84-20303
Transverse and quantum effects in light control by light; (A) parallel beams: Pump dynamics for three level superfluorescence; and (B) counterflow beams: An algorithm for transverse, full transient effects in optical bi-stability in a Fabryperot cavity
[AD-A136906] 10 p1578 N84-20342
Algorithm to calculate proportional area transformation factors for digital geographic databases
[DE84-004456] 10 p1593 N84-20440
Development of a VOR/DME model for an advanced concepts simulator
[NASA-TM-85717] 11 p1604 N84-20505
Real-time flutter analysis
[NASA-CR-170412] 11 p1605 N84-20512
Application of improved numerical schemes 11 p1610 N84-20537
Fast algorithms for combustion kinetics calculations: A comparison 11 p1612 N84-20554
Mixing 4D-equipped and unequipped aircraft in the terminal area 11 p1616 N84-20577
Eigenspace design techniques for active flutter suppression 11 p1617 N84-20581
Algorithms for output feedback, multiple-model, and decentralized control problems 11 p1617 N84-20583
Adaptive control: Myths and realities 11 p1618 N84-20586
Application of advanced control techniques to aircraft propulsion systems 11 p1618 N84-20590
Fast algorithms for improved speech coding and recognition
[AD-A137569] 11 p1643 N84-20740
Detection of multiple sinusoids using an adaptive cascaded structure
[DE84-005521] 11 p1645 N84-20753
Computation of current-voltage-characteristics in a semiconductor device using arc-length continuation
[AD-A137919] 11 p1647 N84-20770
Optimization for vibration isolation
[AD-A137895] 11 p1668 N84-20886
Beta systems error analysis
[NASA-CR-170998] 11 p1705 N84-21117
Liu fault diagnosis investigation
[AD-A137552] 11 p1706 N84-21119
Minimax solution of a nonlinear system of mixed equalities and inequalities
[DE84-003870] 11 p1709 N84-21137
Evaluation of document retrieval ranking algorithms 11 p1711 N84-21154
Generalized Dinkelbach-type algorithms
[CSIR-TWISK-295] 11 p1712 N84-21161
On an algorithm for external triangulation of ELV polygons
[CSIR-TWISK-287] 11 p1712 N84-21162
Time domain analysis and synthesis of robust controllers for large scale LQG (Linear Quadratic Gaussian) regulators
[AD-A137760] 11 p1713 N84-21172
Generalization of the numerical Schwarz algorithm
[DE84-003735] 11 p1716 N84-21191
Evaluation of step directions in optimization algorithms
[DE84-006044] 11 p1716 N84-21194
Error analysis of vapor pressure measurements
[AD-A137584] 11 p1728 N84-21271
Chemical application of diffusion quantum Monte Carlo
[DE84-005173] 11 p1746 N84-21393
Word frequency and automatic indexing 11 p1747 N84-21401
Analysis of unsteady processes caused by nonaxisymmetrical loading of finite multilayer cylinders 12 p1788 N84-21661
Vaporization of synthetic fuels
[DE84-006556] 12 p1803 N84-21755
State variable method of fault tree analysis
[DE84-006007] 12 p1824 N84-21891
Atmospheric effects on remote sensing of the Earth's surface 12 p1832 N84-21949
Water vapor profile retrieval simulation studies for the HIRS/MSU and AMTS/MSU sounders 12 p1851 N84-22058
A new algorithm for tuning of computed radiances for HIRS2/MSU 12 p1852 N84-22063
Description of algorithms for processing Coastal Zone Color Scanner (CZCS) data
[NASA-CR-173466] 12 p1863 N84-22138
Solid modelling in the Department of Energy 12 p1870 N84-22188
An intersection algorithm for moving parts 12 p1871 N84-22193
The triangle compare method of hidden-line elimination 12 p1873 N84-22205
An interactive modeling program for the generation of planar polygons for boundary type solids representations of wire frame models 12 p1874 N84-22210
An enhanced Oct-tree data structure and operations for solid modeling 12 p1874 N84-22214
Effects of computer architecture on FFT (Fast Fourier Transform) algorithm performance
[AD-A138465] 12 p1878 N84-22237
An approach for multilayer PCB (Printed circuit boards) design with automatic routing
[AD-A138072] 12 p1880 N84-22255
Placing hidden surface removal within the CORE graphics standard: An example
[AD-A138239] 12 p1882 N84-22266
Grid-based line drawing quantization
[AD-A138503] 12 p1884 N84-22278
Generalized inverses of matrices and its applications
[AD-A138274] 12 p1894 N84-22337
Integrated-optical approaches to matrix multiplication 12 p1906 N84-22418
Program for a constructive physics
[DE84-005425] 12 p1916 N84-22486

Diophantine inferences from statistical aggregates on few-valued attributes
[AD-A138365] 12 p1919 N84-22501

Analysis of inviscid and viscous flows in cascades with an explicit multiple-grid algorithm
[NASA-TM-83636] 13 p1925 N84-22527

Quantification of subjective ratings through conjoint measurement analysis
[AD-A138810] 13 p1930 N84-22554

Numerical analysis of an unsteady shock in an inlet diffuser 13 p1951 N84-22686

Numerical predictions of residence times behind a rearward facing step with transverse injection 13 p1951 N84-22687

Balancing of flexible rotors with simultaneous precise determination of influencing factors 13 p1974 N84-22808

A digital adaptive array processing algorithm for communications 13 p1977 N84-22834

A model for asynchronous distributed computation
[AD-P002879] 13 p1978 N84-22840

Distributed estimation in the MIT/LL (Massachusetts Institute of Technology/Lincoln Laboratory) DSN (Distributed Sensor Networks) test-bed
[AD-P002897] 13 p1980 N84-22856

A framework for evaluation of surveillance algorithms
[AD-P002901] 13 p1981 N84-22859

Compression algorithm for data analysis in a radio link (preparation of PACEM 2 experiment)
[CRPE-NT-121] 13 p1984 N84-22881

Parametric and nonparametric Fast Kalman echo cancellation 13 p1987 N84-22901

Data compression
[AD-A138541] 13 p2024 N84-23124

Transformations of software design and code may lead to reduced errors 13 p2027 N84-23145

Image acquisition and manipulation system
[AD-A138927] 13 p2028 N84-23153

Implementation of an optimal multicommodity network flow algorithm based on gradient projection and a path flow formulation
[AD-A138935] 13 p2029 N84-23154

The representation and synthesis of design specifications for distributed software systems 13 p2030 N84-23163

Factoring multivariate integral polynominals
[MC-IW-229/83] 13 p2034 N84-23190

Factoring multivariate integral polynomials, part 2
[MC-IW-230/83-PT-2] 13 p2034 N84-23191

The early roots of Babylonian mathematics. Part 3: Three remarkable texts from Elba
[CTH-MATH-198314-PT-3] 13 p2034 N84-23197

Polynomial factorization by root approximation
[MC-IW-242/83] 13 p2035 N84-23201

Application of a distributed routing algorithm to a packet-switched communications network
[AD-A139147] 14 p2140 N84-23828

Finite element analysis of wrinkling membranes
[NASA-CR-172325] 14 p2158 N84-23926

Solution techniques in finite element analysis
[AD-A139552] 14 p2158 N84-23931

A constrained-clustering approach to the analysis of remote sensing data
[AD-A139124] 14 p2169 N84-23993

Research agenda in non-linear decision systems
[PB84-161207] 14 p2187 N84-24102

Control algorithms of Soviet HCS Rusalka for robots analyzed 14 p2188 N84-24113

A preprocessing procedure method in ternary clause selection
[AD-P002327] 14 p2189 N84-24118

A fast complementation algorithm for sum-of-products expressions of multiple-valued input binary functions
[AD-P002339] 14 p2191 N84-24130

The simplification of multiple-valued symmetric functions
[AD-P002340] 14 p2191 N84-24131

Vector expansion transformation of logic algebra
[AD-P002349] 14 p2192 N84-24140

Image processing algorithms for a multiple-valued array processor
[AD-P002359] 14 p2193 N84-24150

Four-valued logic star algorithm and their applications
[AD-P002370] 14 p2194 N84-24161

The synthesis of ternary functions under fixed polarities and ternary I-2L circuits
[AD-P002381] 14 p2196 N84-24172

On the extremum of bilinear functional for hyperbolic type P.D.E.
[AD-P002942] 14 p2197 N84-24182

Diagnostic algorithms for contour dynamics
[AD-P002947] 14 p2198 N84-24187

Orthogonal schemes for structural optimization
[AD-P002954] 14 p2199 N84-24194

Space and time analysis in dynamic programming algorithms
[AD-P002963] 14 p2200 N84-24203

Decision algorithms in fuzzy situations
[AD-P002968] 14 p2201 N84-24205

Distributed database control and allocation. Volume 2: Performance analysis of concurrency control algorithms
[AD-A138892] 14 p2203 N84-24224

Modular computing networks: A new methodology for analysis and design of parallel Algorithms/Architectures
[AD-A139600] 14 p2209 N84-24261

Singular value computations with systolic arrays
[AD-A139302] 14 p2211 N84-24277

A parallel QR method using fast Givens' rotations
[AD-A139184] 14 p2212 N84-24281

Multivariate perpendicular interpolation
[AD-A139254] 14 p2212 N84-24284

A hybrid Chebyshev Krylov subspace algorithm for solving nonsymmetric systems of linear equations
[AD-A139301] 14 p2213 N84-24291

The efficient use of spectral and finite difference methods for the solution of certain hyperbolic and parabolic problems
[AD-A139477] 14 p2214 N84-24299

An approximate Newton method for coupled nonlinear systems
[AD-A139589] 14 p2214 N84-24300

Factoring multivariate polynomials over algebraic number fields
[MC-IW-233/83] 14 p2215 N84-24305

A filtered attitude determination system for spacecraft measurement and control 15 p2267 N84-24612

An implementation of Watson's algorithm for computing 2-dimensional Delaunay triangulations
[QUEL-1509/83] 15 p2391 N84-25345

Adaptive coherence estimation
[DE84-006486] 15 p2393 N84-25361

Implementation of the sign-logarithm arithmetic FFT
[AD-A139355] 15 p2396 N84-25373

A study of the different solution methods for nonlinear problems
[ISD-304] 15 p2396 N84-25376

On the sequential nature of unification
[AD-A139939] 15 p2398 N84-25388

Comments on bounded error adaptive control
[NASA-CR-173542] 15 p2399 N84-25393

Updating LU factorizations for computing stationary distributions
[DE84-007566] 15 p2400 N84-25402

Investigation of image enhancement techniques for the development of a self-contained airborne radar navigation system
[NASA-CR-166530] 16 p2445 N84-25684

Minimum operational performance standards for traffic alert and collision avoidance system (TCAS) airborne equipment, volume 1
[RTCA/DO-185-VOL-1] 16 p2445 N84-25685

Minimum operational performance standards for traffic alert and collision avoidance system (TCAS) airborne equipment, volume 2
[RTCA/DO-185-VOL-2] 16 p2445 N84-25686

Advances in strapdown inertial systems: Introduction and overview 16 p2446 N84-25692

Strapdown system algorithms 16 p2446 N84-25694

Application of multifunction strapdown inertial system 16 p2447 N84-25698

Structural sizing of a solar powered aircraft
[NASA-CR-172313] 16 p2448 N84-25702

An algorithm for maximum likelihood estimation using an efficient method for approximating sensitivities
[NASA-TP-2311] 16 p2451 N84-25717

An easy-to-implement coding scheme for multifrequency PPM 16 p2479 N84-25896

Digital image processing and analysis 16 p2490 N84-25974

Recent developments in multigrid methods for the steady Euler equations 16 p2492 N84-25988

Element-by-element solution procedures for nonlinear transient heat conduction analysis 16 p2494 N84-26000

Several aspects of the sequential processing of photogrammetric bundle blocks 16 p2505 N84-26077

Measured versus predicted performance of the SERI test house: A validation study 16 p2513 N84-26128

Status of the class A performance evaluation program 16 p2514 N84-26134

Cluster analysis package for image segmentation
[AD-P003117] 16 p2532 N84-26258

Fourier shape analysis: A multivariate pattern recognition approach
[AD-P003118] 16 p2532 N84-26259

Fuzzy algorithms for pattern recognition
[AD-P003119] 16 p2533 N84-26260

Remarks concerning the application of polynomial zeroing methods on the algebraic eigenvalue problem 16 p2541 N84-26309

An evaluation of the directed flow graph methodology
[NASA-CR-173593] 16 p2543 N84-26324

Research in adaptive control hybrid and constrained structure systems
[AD-A140496] 16 p2547 N84-26345

Modification to shock fitting program
[NASA-TM-86097] 16 p2548 N84-26353

Conference on Vector Calculators, Winter Quarter 1983 16 p2548 N84-26355

Parallel processors: Aspects of interaction between calculator architecture and algorithms 16 p2549 N84-26360

Evaluating the response of complex systems to environmental threats: The Sigma 2 method
[UCRL-53399] 16 p2551 N84-26366

A quasi-simultaneous calculation method for strongly interacting viscous flow around an infinite swept wing
[NLR-MP-83001-U] 17 p2601 N84-26672

Study of NOAA (National Oceanic and Atmospheric Administration) WP-3D terminal navigation errors based on navigators logbooks: 1977-1983
[PB84-155738] 17 p2605 N84-26692

Efficiency comparison of quasi-optimum direction finding algorithms used for point sources of signals 17 p2633 N84-26844

Peculiarities of minimization of mixer noise factor 17 p2635 N84-26856

Real time divergence measurement from single Doppler radar
[AD-A140558] 17 p2653 N84-26966

Defense switched network technology and experiments program
[AD-A140609] 17 p2653 N84-26968

Finite element analysis of bonded joints
[AD-A140559] 17 p2680 N84-27068

Algorithm for determining coordinates of hypocenters of near earthquakes and seismic wave propagation velocity in layer 17 p2706 N84-27235

Development of Great Lakes algorithms for the Nimbus-G coastal zone color scanner
[NASA-CR-173511] 17 p2711 N84-27258

New algorithms for microwave measurements of ocean winds 17 p2713 N84-27272

Tracking ocean wave spectrum from SAR images 17 p2714 N84-27277

A fast interpolator with slope specification
[INPE-3058-PRE/478] 17 p2751 N84-27462

Data smoothing: An automatic algorithm
[INPE-3034-PRE/468] 17 p2752 N84-27467

Preconditioned iterative methods for nonselfadjoint or indefinite elliptic boundary value problems
[AD-A140777] 17 p2758 N84-27511

New directions in scheduling theory
[CWI-OS-R8401] 17 p2761 N84-27535

Application of supercomputers to computational aerodynamics
[NASA-TM-85965] 18 p2785 N84-27680

Multivariable digital flight control design of the X-29A
[AD-A140983] 18 p2796 N84-27745

The Lincoln low-rate vocoder: A 1200/2400 bps LPC-10 voice terminal
[AD-A141291] 18 p2829 N84-27963

Narrowband (LPC-10) vocoder performance under combined effects of random bit errors and jet aircraft cabin noise
[AD-A141333] 18 p2830 N84-27967

Computer-aided design of millimeter wave e-plane filters
[AD-A141016] 18 p2833 N84-27987

Solution of direct three-dimensional problems in gravimetry and magnetometry with arbitrary continuous laws of density and magnetization distribution 18 p2861 N84-28169

Implementation of the Sun position calculation in the PDC-1 control microprocessor 18 p2875 N84-28257

An algorithm to compute the geoid surface
[IOS-168] 18 p2881 N84-28290

The International Satellite Cloud Climatology Project (ISCCP): Cloud analysis algorithm intercomparison
[WCP-73] 18 p2886 N84-28313

Motion simulation with a G-seat system: Sensory and performance mechanisms
[AD-P003267] 18 p2907 N84-28432

Multi-dimensional signal processing research program
[AD-A141273] 18 p2917 N84-28497

A comparison of two photogrammetric algorithms for the measurement of model deformation in the National Transonic Facility
[NASA-TM-85830] 18 p2919 N84-28513

Parallel programming and the poker programming environment
[AD-A141026] 18 p2921 N84-28523

Enhanced tracking of airborne targets using multiple model filtering techniques for adaptive field of view expansion
[AD-A141144] 18 p2926 N84-28554

Rapidly convergent algorithms for 3-D tandem and stellarator equilibria in the paraxial approximation
[DE84-009688] 18 p2933 N84-28603

Formulation of theory of artificial earth satellite motion by Hori-Deprit method 19 p2974 N84-28852

An information-theoretic approach to target estimation of a laser radar tracking system
[AD-A142247] 19 p3006 N84-29067

Low rate voice transmission by a classifying vocoder
[ENST-84E002] 19 p3010 N84-29083

Procedures for signal reconstruction from noisy phase
[AD-A142185] 19 p3016 N84-29120

An iterative method for restoring noisy blurred images
[AD-A142201] 19 p3016 N84-29122

A spectral collocation method for the Navier-Stokes equations
[NASA-CR-172365] 19 p3021 N84-29159

An algorithm for seam tracking applications
[AD-A141705] 19 p3031 N84-29227

Sensitivity of a lidar inversion algorithm to parameters relating atmospheric backscatter and extinction
[AD-A141565] 19 p3054 N84-29378

A new minimax algorithm
[NASA-CR-172382] 19 p3074 N84-29503

Sorting by recursive partitioning
[AD-A141583] 19 p3077 N84-29524

Solution of a tridiagonal system of equations on the finite element machine
[NASA-TM-85710] 19 p3080 N84-29543

Study of the mapping of Navier-Stokes algorithms onto multiple-instruction/multiple-data-stream computers
[NASA-TM-85945] 19 p3080 N84-29544

Conjugate gradient coupled with multigrid for an indefinite problem
[NASA-CR-172379] 19 p3082 N84-29558

Special nonlinear optimization techniques
[AD-A141097] 19 p3083 N84-29564

An optically implemented Kalman filter algorithm
[AD-A141126] 19 p3083 N84-29565

Algorithms for zonal methods and development of three dimensional mesh generation procedures
[AD-A141692] 19 p3086 N84-29592

A graph theoretic technique for the generation of systolic implementations for shift-invariant flow graphs
[AD-A142251] 19 p3090 N84-29615

Application of asymptotic methods of theoretical computer science and combinatorics to problems in the design of VLSI circuits
[AD-A142262] 19 p3090 N84-29617

Topics in large sparse nonlinear optimization
[DE84-008933] 19 p3090 N84-29620

Periodic orbits and libration in the Mimas-Tethys case 19 p3121 N84-29839

The missing cone problem in computer tomography and a model for interpolation in synthetic aperture radar
[AD-A142421] 20 p3174 N84-30157

Parallelism in manipulator dynamics. Revision
[AD-A142515] 20 p3196 N84-30299

TM failed detectors data replacement 20 p3208 N84-30382

Bias removal for conventional magnetotelluric data
[DE84-012189] 20 p3241 N84-30579

Computational method for thermoviscoelasticity with application to rock mechanics
[DE84-003087] 20 p3242 N84-30585

Computational experiments with a feature based stereo algorithm
[AD-A142549] 20 p3259 N84-30687

A minimum area VLSI (Very Large Scale Integrated) architecture for O(logn) time sorting
[AD-A142414] 20 p3266 N84-30723

Modifications to iterative recursion unfolding algorithms and computer codes to find more appropriate neutron spectra
[AD-A142475] 20 p3273 N84-30775

Three image compression algorithms for Compression and Decompression of Imaging Sensor Signals (CADISS)
[NLR-MP-83027-U] 20 p3275 N84-30791

Two algorithms for the contact problem in elastostatics, 1982
[PB83-147678] 20 p3275 N84-30793

Canonical realizations of completely regular modular computing networks
[AD-A142010] 20 p3277 N84-30802

Some design guidelines and discrete-time adaptive controllers
[NASA-CR-173800] 20 p3278 N84-30808

Smoothed local symmetries and their implementation
[AD-A142489] 20 p3279 N84-30811

A numerical algorithm for chained aggregation and modified chained aggregation
[AD-A142394] 20 p3280 N84-30822

New algorithms for near neighbor searching
[AD-A142404] 20 p3280 N84-30824

The complexity of sorting on distributed systems
[AD-A142415] 20 p3281 N84-30825

An improved accuracy general remapping algorithm
[DE84-004320] 20 p3282 N84-30837

Electron motion in solenoidal magnetic fields using a first order symplectric integration algorithm
[DE84-011341] 20 p3293 N84-30910

Stall delay by boundary layer blowing and/or suction 21 p3323 N84-31086

An on-line equivalent system identification scheme for adaptive control 21 p3343 N84-31213

Attitude dynamics of the Galileo spacecraft 21 p3352 N84-31262

Computational Methods: 1984 JPM Specialist Session
[AD-A142923] 21 p3354 N84-31276

Exponential-fitted methods for integrating stiff systems of ordinary differential equations: Applications to homogeneous gas-phase chemical kinetics 21 p3355 N84-31279

A comparison of the efficiency of numerical methods for integrating chemical kinetic rate equations 21 p3355 N84-31280

A comparative study of linear array synthesis technique using a personal computer
[AD-P003500] 21 p3383 N84-31468

Multiple source DF (Direction Finding) signal processing: An experimental system
[AD-P003515] 21 p3385 N84-31483

High speed low-cost ways to get messages from a sender to a receiver when some channels linking them become inoperative
[AD-A142831] 21 p3386 N84-31488

The new algorithm for symbolic network analysis 21 p3390 N84-31509

Princeton VLSI project
[AD-A142959] 21 p3391 N84-31521

A space-marching method for the Navier-Stokes equations for internal flows 21 p3397 N84-31550

Slave finite elements: The temporal element approach to nonlinear analysis 21 p3420 N84-31689

Self-adaptive solution strategies 21 p3420 N84-31693

Enhanced Fourier algorithms for ultrasonic crack characterization
[DE84-012544] 21 p3423 N84-31714

Environmental impact research program. An implicit, wiggle-free, and accurate upstream finite-difference algorithm for the 1-dimensional transport-diffusion equation
[AD-A143141] 21 p3436 N84-31802

Abstraction, specification and implementation techniques with an application to garbage collection — data processing
[MATH-CENTRE-TRACTS-166] 21 p3467 N84-31980

A model of asynchronous iterative algorithms for solving large, sparse, linear systems
[NASA-CR-172418] 21 p3469 N84-31988

Fundamental research in applied mathematics
[AD-A143123] 21 p3474 N84-32016

PLTMGC: A multi-grid continuation program for parameterized nonlinear elliptic systems
[DE84-010406] 21 p3474 N84-32017

Algorithm for secondary electron emission from water vapor by high velocity ions
[DE84-011871] 21 p3494 N84-32142

Solution and sensitivity analysis of RESDYN model 1a using SENSUMT
[AD-A142788] 21 p3515 N84-32267

Logical optimization for database uniformization
[NASA-CR-173836] 21 p3518 N84-32282

Flight Experiment Demonstration System (FEDS): Mathematical specification
[NASA-CR-175252] 22 p3539 N84-32405

The Record of Electrical and Communication Engineering Conversazione, volume 53, no. 1, Jul. 1984
[ISSN-0385-7719] 22 p3563 N84-32565

An automatic syntheses of hardware algorithm 22 p3563 N84-32568

Adaptive analog-to-digital converter 22 p3567 N84-32591

Performance simulation for unit-memory convolutional codes with byte-oriented Viterbi decoding algorithm 22 p3573 N84-32630

A simple algorithm for the metric traveling salesman problem 22 p3573 N84-32631

Error-trellis syndrome decoding techniques for convolutional codes 22 p3574 N84-32633

On the finite element approximation of the stream function-vorticity equations
[AD-A143506] 22 p3594 N84-32758

Computational fluid dynamics at the ICMA (Institute of Computational Mathematics and Applications)
[AD-A143510] 22 p3594 N84-32759

A geographic information system for regional hydrologic modeling 22 p3613 N84-32891

Manual and automated line generalization and feature displacement
[AD-A143250] 22 p3614 N84-32900

Use of the tensor product for numerical weather prediction by the finite element method, part 1
[AD-A143273] 22 p3625 N84-32970

Summary of research in applied mathematics, numerical analysis and computer science at the Institute for Computer Applications in Science and Engineering
[NASA-CR-172421] 22 p3633 N84-33024

On the impact of communication complexity in the design of parallel numerical algorithms
[NASA-CR-172436] 22 p3637 N84-33059

The Blue ChiP Project
[AD-A143474] 22 p3638 N84-33065

Extending binary Byzantine agreement to multivalued Byzantine agreement
[AD-A143424] 22 p3640 N84-33077

Dynamic programming and transitive closure on linear pipelines
[AD-A143527] 22 p3640 N84-33079

Algorithms for error localization of discrete data
[DE84-014417] 22 p3641 N84-33089

Basic geometric algorithms for use with graphic input
[DE84-013256] 22 p3642 N84-33090

Simulation of large networks of processors by smaller ones
[AD-A143529] 22 p3643 N84-33098

The least squares lattice algorithm: An alternate derivation with a discussion of numerical conditioning
[AD-A143439] 22 p3645 N84-33114

Distributions of central quadratic forms in normal variables: A comparison of algorithms
[AD-A143468] 22 p3646 N84-33116

High-order sparse factorization methods for elliptic boundary value problems
[DE84-012582] 22 p3646 N84-33122

Accelerated convergence of the steepest-descent method for magnetohydrodynamic equilibria
[DE84-013602] 22 p3659 N84-33195

Digital signal processing 22 p3684 N84-33357

A fully vectorized numerical solution of the incompressible Navier-Stokes equations 23 p3688 N84-33375

Refinement and evaluation of helicopter real-time self-adaptive active vibration controller algorithms
[NASA-CR-3821] 23 p3689 N84-33378

Unsteady viscous-inviscid interaction procedures for transonic airfoil flows
[AD-A143764] 23 p3690 N84-33390

Segmentation of the speech signal based on changes in energy distribution in the spectrum
[ISSN-0208-5658] 23 p3729 N84-33635

The calculation of the radar vertical coverage diagram
[AD-A143647] 23 p3731 N84-33645

Evaluation of wind estimates over open ocean from the Nimbus 7 scanning multichannel microwave radiometer 23 p3773 N84-33921

Profile inversion of a planar medium with a line source or a point source 23 p3776 N84-33938

Multiresolution spatially constrained clustering of remotely sensed data on the massively parallel processor 23 p3779 N84-33962

A comparison of storm tracking and extrapolation algorithms
[DOT-FAA-PM-84/1] 23 p3800 N84-34091

Efficient editing of solid models by exploiting structural and spatial locality
[TM-46] 23 p3815 N84-34190

Rational-spline approximation with automatic tension adjustment
[NASA-TP-2366] 23 p3817 N84-34204

Boolean operations in solid modelling: Boundary evaluation and merging algorithms
[TM-26] 23 p3818 N84-34207

Pipelined orthogonal digital lattice filters
[AD-A143902] 23 p3818 N84-34208

Solution of simultaneous polynomial equations by elimination in MACSYMA
[DE84-013891] 23 p3818 N84-34211

A multigrid finite element method 23 p3818 N84-34213

Throughput for packet radio networks with dynamic power levels
[AD-A144415] 24 p3895 N84-34864

Evaluation and development of new VAS remote sensing algorithms 24 p3933 N84-34894

High-performance specialized processors for calculation of elementary and special functions 24 p3941 N84-34950

Image input/output controller-interface based on 16-bit microprocessor 24 p3942 N84-34954
Adaptive control with variable dead-zone nonlinearities [NASA-CR-173980] 24 p3948 N84-35001
Spline and weighted random directions method for nonlinear optimization [AD-A144217] 24 p3950 N84-35012
Spatio-temporal spectral analysis by eigenstructure methods [AD-A144361] 24 p3951 N84-35017
Algorithms and file structures for computational geometry [AD-A144381] 24 p3951 N84-35018
A systolic algorithm for integer GCD computation [AD-A144409] 24 p3951 N84-35019
Atmospheric refraction error and its compensation for passive optical sensors [AD-A144377] 24 p3963 N84-35098
Statistical classification of IUE stellar spectra by the Variable Procrustean Bed (VPB) approach 24 p3975 N84-35178

ALIGNMENT
NT SELF ALIGNMENT
Alignment telescope for Antares [DE83-014179] 01 p0088 N84-10576
Using an X-ray-sensitive vidicon and remote-control stage mechanism to obtain critical radiographic alignment of small explosive devices [DE83-012846] 03 p0358 N84-12326
Simulator scene display evaluation [NASA-CASE-ARC-11504-1] 07 p0960 N84-16221
Surface accuracy measurement sensor test on a 50-meter antenna surface model [NASA-TM-85689] 07 p0992 N84-16427
Rotary target V-block [NASA-CASE-LAR-12007-3] 07 p1006 N84-16523
Algorithm for real time control of non linear systems with application to the control satelite alignment systems [INPE-2755-PRE/331] 09 p1265 N84-18263
Fabrication and evaluation of a high density multi fiber plastic connector 11 p1720 N84-21223
A field splicing system for single-mode optical fiber 11 p1726 N84-21257
Application for surveying technology for the alignment of large optical systems [DE84-006005] 14 p2225 N84-24353
Novel method of assembling large multicomponent machine sets 17 p2641 N84-26899
Development of a multidetector deflection measurement system [DE84-009703] 18 p2847 N84-28078
Three wavelength optical alignment of the Nova laser [DE84-009702] 18 p2847 N84-28079
Nova laser alignment control system [DE84-010992] 20 p3194 N84-30288
Automatic beam centering at the SSC interaction regions [DE84-010710] 20 p3292 N84-30902
High-spin gamma-ray spectroscopy [DE84-010716] 20 p3296 N84-30929
Alignment of multistate laser amplifiers with periodic space filtration of beam 21 p3381 N84-31452
Feed error effects on lens performance [AD-P003513] 21 p3385 N84-31481
Operational performance of the Antares alignment system [DE84-012659] 21 p3410 N84-31632
Characteristics and capacities of the NASA Lewis Research Center high precision 6.7- by 6.7-m planar near-field scanner [NASA-TM-83785] 22 p3598 N84-32789
Low loss splicing method for single-mode optical fiber [NASA-CASE-NPO-16294-1] 22 p3656 N84-33179
System for maintaining the alignment of mandrels in filament winding operations [DE84-014660] 23 p3727 N84-33617
Stable mirror mount [DE84-014250] 23 p3755 N84-33804
Optical fiber splice sled [AD-D011180] 24 p3910 N84-34767

ALIPHATIC COMPOUNDS
NT ACETONE
NT ACETYL COMPOUNDS
NT ACETYLENE
NT ACROLEINS
NT ACRYLATES
NT ACRYLIC ACID
NT ACRYLONITRILES
NT ADENOSINE TRIPHOSPHATE
NT ALKANES
NT ALKENES
NT ALKYL COMPOUNDS
NT ALKYNES
NT ALLYL COMPOUNDS
NT BUTADIENE
NT BUTANES
NT BUTENES
NT CARBAMIDES
NT CARBON TETRACHLORIDE
NT CARBON TETRAFLUORIDE
NT CELLULOSE
NT CHLOROETHYLENE
NT CHLOROFORM
NT CITRIC ACID
NT CYCLIC HYDROCARBONS
NT DEXTRANS
NT DIMETHYLHYDRAZINES
NT ETHANE
NT ETHYL ALCOHOL
NT ETHYLENE
NT ETHYLENEDIAMINE
NT FATTY ACIDS
NT FLUOROAMINES
NT FORMIC ACID
NT GLUCOSE
NT GLUCOSIDES
NT GLUTAMIC ACID
NT GLUTAMINE
NT GLYCERIDES
NT GLYCEROLS
NT GLYCOGENS
NT GLYCOLS
NT HEPTANES
NT HYDRAZIDES
NT HYDRAZINES
NT ISOPROPYL ALCOHOL
NT KETONES
NT LACTATES
NT MALEATES
NT METHANE
NT METHYL ALCOHOLS
NT METHYL COMPOUNDS
NT METHYLHYDRAZINE
NT NAPHTHENES
NT NITRATE ESTERS
NT NITROAMINES
NT NITROSAMINE
NT NUCLEOSIDES
NT OXYACETYLENE
NT PARAFFINS
NT PENTANES
NT PROPANE
NT RIBOSE
NT SUGARS
NT THIOLS
NT URETHANES
NT VINYLIDENE

ALKALI HALIDES
NT CESIUM IODIDES
NT SODIUM CHLORIDES
Ground-state properties and optical excitations of a solvated electron in molten alkali halides [DE84-701191] 24 p3881 N84-34587

ALKALI METAL COMPOUNDS
Assessment of the BCL and ORL chemical heat pumps [DE83-011450] 01 p0080 N84-10518
A model for superconductivity in graphite intercalation compounds [AD-A133862] 05 p0753 N84-14937
Electric-dipole moment of CaF by molecular-beam, laser-RF, double-resonance study of Stark splittings [DE84-005413] 15 p2405 N84-25439

ALKALI METALS
NT CESIUM
NT CESIUM VAPOR
NT CESIUM 137
NT LIQUID LITHIUM
NT LIQUID SODIUM
NT LITHIUM
NT POTASSIUM
NT RUBIDIUM
NT RUBIDIUM ISOTOPES
NT SODIUM
NT SODIUM VAPOR
Vibrational spectra of single and mixed alkali pentasilicate glasses [AD-A130527] 01 p0049 N84-10318
Oxygen production by the moltox process [DE83-012847] 02 p0190 N84-11237
Lidar studies of the alkali metals [INPE-2892-PRE/411] 02 p0193 N84-11252
Equations of state for the alkali metals, with generalizations to NaCl [DE83-018075] 03 p0351 N84-12280
Introduction: Advances and opportunities in cluster research [DE84-000364] 04 p0594 N84-13917
Dielectric relaxation in poly(ethylene oxide) complexed with alkali metal perchlorates [AD-A134464] 07 p0970 N84-16284
Fourier transform and polychromator studies of the inductively coupled plasma [DE84-003975] 08 p1233 N84-18059
Resonance line broadening of alkali metals in pyrotechnic flames [AD-A135685] 09 p1279 N84-18355
Thermal diffusion in glass melts [BMFT-FB-W-83-033] 12 p1802 N84-21751
Improvements in the process of dehydrating hydrazine by sodium hydroxide [INPE-3198-PRE/561] 23 p3712 N84-33531

ALKALIES
NT POTASSIUM HYDROXIDES
NT SODIUM HYDROXIDES
Chemical and electrochemical properties in molten alkaline hydroxides. 2: Oxidising/reducing reactions of oxygen [BLL-RISLEY-TR-4775-(9091.9F)] 01 p0036 N84-10227
Alkali doping heterogeneous catalysts [BMFT-FB-T-83-174] 07 p0973 N84-16303
Chemical and electrochemical properties in molten alkaline hydroxides. 3: Oxide and acid complexes of some metallic cations [BLL-RISLEY-TR-4858-(9091.9F)] 08 p1123 N84-17299
Aluminum-air research and development program. Summary report for FY 1982 [DE84-006360] 14 p2142 N84-23848
Gel structures in leached alkali silicate glass [DE84-009928] 18 p2819 N84-27899
Evaluation of alkaline chemical addition and organic loading schemes for enhancement of secondary treatment and ancillary nutrient removal [AD-A141178] 18 p2877 N84-28270
Intergranular failures of Alloy 600 in high temperature caustic environments [DE84-010890] 20 p3155 N84-30032
Corrosion of unalloyed steels in different alkaline solutions at high temperatures and under high pressures [S/T-REPT-VOL-1-NO-1] 20 p3159 N84-30060
Alkali-SCl2 chemiluminescence: Vibrational population inversion in the B state of S2 [AD-A143639] 23 p3754 N84-33794

ALKALINE BATTERIES
Investigation of the electrochemical formation of Li-C intercalation compounds [AD-A130879] 01 p0037 N84-10233
Temperature limitation of primary and secondary alkaline battery electrodes [DE83-015009] 02 p0214 N84-11404
Additive for zinc electrodes — electric automobiles [NASA-CASE-LEW-13286-1] 05 p0673 N84-14422
Performance of alkaline battery cells used in emergency locator transmitters [NASA-TP-2277] 11 p1646 N84-20759
Laboratory discharge studies of a 6 V alkaline lantern-type battery Eveready Energizer no. 526, under various ambient temperatures (-15 deg C and + 22 deg C) and loads (30 omega and 60 omega) 18 p2800 N84-27772
Secondary alkaline batteries [DE84-010963] 20 p3179 N84-30191
Research on oxidation by air and tempering of Raney nickel electrocatalysts for the H2 anodes of alkali combustion materials cells [NASA-TM-77414] 23 p3713 N84-33535

ALKALINE EARTH OXIDES
NT BERYLLIUM OXIDES
NT CALCIUM OXIDES
NT MAGNESIUM OXIDES
NT PERICLASE

ALKALINITY
Some aspects of the corrosion of iron in alkaline solutions and associated fundamental problems [BLL-T6234/BG/LRS/LRST677/83] 12 p1795 N84-21707

ALKALOIDS
NT ATROPINE
NT ERGOTAMINE
NT MORPHINE
NT QUINOLINE
Failure of vincristine induce twinning 09 p1358 N84-18872

ALKANES
NT BUTANES
NT ETHANE
NT HEPTANES
NT METHANE
NT PARAFFINS
NT PENTANES
NT PROPANE
Time-temperature studies of high temperature deterioration phenomena in lubricant systems: Synthetic ester lubricants [AD-A135464] 08 p1166 N84-17594

Photochemical conversion of H-2Os-3(CO)10(P-Donor) to H-2Oc-3(CO)9(P-Donor) in solution and on high surface area silica
[AD-A136891] 10 p1455 N84-19501
Alkane soluble transition metal complexes
[AD-A137252] 10 p1458 N84-19525
Liquid and solid phase compositions in a partially frozen JP-5 fuel low in n-alkanes
[AD-A143390] 22 p3561 N84-32553

ALKENES
NT BUTADIENE
NT BUTENES
NT ETHYLENE
NT VINYLIDENE
Mutual solubility and properties of polyolefins and polyisoprene mixtures
[CSIR-TRANS-1647] 01 p0029 N84-10185
Oligomerization and butenolysis of olefins by metathesis: Contributions to a chemical use of industrial C4-olefins — catalysts
[BMFT-FB-T-83-184] 10 p1457 N84-19518
Organometallic chemistry of weakly solvated transition metal cations
[DE84-006987] 13 p1958 N84-22726
Chemical utilization of the olefinic byproducts in pyrolysis naphtha by carbonylation and alkylation reaction
[BMFT-FB-T-84-064] 19 p2985 N84-28914
Laser induced nitrations of some aliphatic hydrocarbon compounds 21 p3373 N84-31404

ALKYL COMPOUNDS
Photodegradation of coumarin laser dyes. An unexpected singlet self-quenching mechanism
[AD-A136339] 09 p1321 N84-18628
Alkane soluble transition metal complexes
[AD-A137252] 10 p1458 N84-19525
Process for preparing perfluorotriazine elastomers and precursors thereof
[NASA-CASE-ARC-11402-1] 13 p1961 N84-22744
Substitution and addition reactions of a (Methylene)phosphine with alkyllithium reagents
[AD-A141512] 19 p2984 N84-28908
Quantum chemical study of methane oxidation species
[NASA-CR-173819] 19 p2987 N84-28928
Reactions of metal-metal multiple bonds. Part 14: Synthesis and characterization of triangulo-W3 and Mo2W-oxo capped alkoxide clusters. Comproportionation of M-M triple bonds, sigma(2)pi(4) and d(o) Metal-oxo groups: M triple bond M + M triple bond O yields M3(micron 3-O)
[AD-A141067] 19 p2987 N84-28930
CO2 laser decomposition of the alkyl phosphites 21 p3373 N84-31402
Laser induced nitrations of some aliphatic hydrocarbon compounds 21 p3373 N84-31404

ALKYLATION
Chemical utilization of the olefinic byproducts in pyrolysis naphtha by carbonylation and alkylation reaction
[BMFT-FB-T-84-064] 19 p2985 N84-28914
Chemical attenuation rates, coefficients, and constants in leachate migration. Volume 1: A critical review
[DE84-009432] 20 p3238 N84-30557

ALKYNES
NT ACETYLENE
NT OXYACETYLENE
Phenoxy resins containing pendent ethynyl groups and cured resins therefrom
[NASA-CASE-LAR-13262-1] 15 p2300 N84-24805

ALL SKY PHOTOGRAPHY
Optical ionospheric mapping
[AD-A140508] 16 p2526 N84-26218

ALL-WEATHER AIR NAVIGATION
Air force technical objective document fiscal year 1985
[AD-A136724] 10 p1598 N84-20471
Ministry official on improving all-weather aviation capabilities 14 p2093 N84-23552

ALL-WEATHER LANDING SYSTEMS
Ministry official on improving all-weather aviation capabilities 14 p2093 N84-23552
Development and flight test of a helicopter compact, portable, precision landing system concept
[NASA-TM-85951] 15 p2259 N84-24566
Investigation of the technology of the microwave landing system Time Reference Scanning Beam (TRSB)
[BMFT-FB-W-84-008] 19 p2962 N84-28774

ALLENDE METEORITE
The nature and origin of refractory inclusions in the Allende meteorite 22 p3678 N84-33318

ALLOCATIONS
NT RESOURCE ALLOCATION
Academic science/engineering: R and D funds, fiscal year 1981(detailed statistical tables)
[PB83-226213] 01 p0160 N84-11057
The design of information structures: Basic allocation strategies for organizations
[AD-P002909] 13 p1981 N84-22861
Optimal file allocation problems for distributed data bases in unreliable computer networks, 2
[AD-P002913] 13 p1981 N84-22864
Justification of estimates for fiscal year 1985 submitted to Congress February 1984. Missile procurement, Air Force
[AD-A140836] 17 p2773 N84-27609
Appropriate Technology Small Grants Program evaluation, volume 1: Executive summary
[DE84-010675] 20 p3313 N84-31038
Appropriate Technology Small Grants Program evaluation, volume 2
[DE84-010674] 20 p3313 N84-31039
Equitable assignment rules
[AD-A142809] 21 p3515 N84-32268
Research salaries
[INPE-2971-NTE/209] 23 p3832 N84-34307

ALLOYS
NT ALUMINUM ALLOYS
NT ANTIMONY ALLOYS
NT ASTROLOY (TRADEMARK)
NT AUSTENITIC STAINLESS STEELS
NT BAINITIC STEEL
NT BEARING ALLOYS
NT BERYLLIUM ALLOYS
NT BINARY ALLOYS
NT BORON ALLOYS
NT BRASSES
NT BRONZES
NT CADMIUM ALLOYS
NT CARBON STEELS
NT CAST ALLOYS
NT CHROMIUM ALLOYS
NT CHROMIUM STEELS
NT COBALT ALLOYS
NT COPPER ALLOYS
NT ERBIUM ALLOYS
NT EUTECTIC ALLOYS
NT FERRITIC STAINLESS STEELS
NT GADOLINIUM ALLOYS
NT GALLIUM ALLOYS
NT GERMANIUM ALLOYS
NT GOLD ALLOYS
NT HAFNIUM ALLOYS
NT HEAT RESISTANT ALLOYS
NT HIGH STRENGTH ALLOYS
NT HIGH STRENGTH STEELS
NT INCONEL (TRADEMARK)
NT INDIUM ALLOYS
NT IRON ALLOYS
NT LEAD ALLOYS
NT LIGHT ALLOYS
NT LIQUID ALLOYS
NT LITHIUM ALLOYS
NT LOW CARBON STEELS
NT MAGNESIUM ALLOYS
NT MANGANESE ALLOYS
NT MARAGING STEELS
NT MARTENSITIC STAINLESS STEELS
NT MERCURY ALLOYS
NT MOLYBDENUM ALLOYS
NT MONEL (TRADEMARK)
NT MONOTECTIC ALLOYS
NT NICKEL ALLOYS
NT NICKEL STEELS
NT NIMONIC ALLOYS
NT NIOBIUM ALLOYS
NT NITINOL ALLOYS
NT PALLADIUM ALLOYS
NT QUATERNARY ALLOYS
NT RARE EARTH ALLOYS
NT REFRACTORY METAL ALLOYS
NT RENE 95
NT RHENIUM ALLOYS
NT SELENIUM ALLOYS
NT SHAPE MEMORY ALLOYS
NT SILICON ALLOYS
NT SODIUM ALLOYS
NT STAINLESS STEELS
NT STEELS
NT TANTALUM ALLOYS
NT TELLURIUM ALLOYS
NT TERNARY ALLOYS
NT TIN ALLOYS
NT TITANIUM ALLOYS
NT TUNGSTEN ALLOYS
NT UDIMET ALLOYS
NT URANIUM ALLOYS
NT VANADIUM ALLOYS
NT WASPALOY
NT WROUGHT ALLOYS
NT YTTRIUM ALLOYS
NT ZINC ALLOYS
NT ZIRCONIUM ALLOYS
Amorphous materials from precision alloys
[BLL-M-35179-(5828.4)] 01 p0041 N84-10264
Thermodynamic estimation of influence of alloying on sticking fault energy of bcc metals
[BLL-M-30130-(5828.4)] 01 p0151 N84-10995
Thermal oxidative degradation reactions of perfluoroalkiethers
[NASA-CR-168224] 02 p0189 N84-11229
Apparatus for directional solidification
[DE83-016409] 02 p0196 N84-11271
Miniature charpy-impact test results for the irradiated ferritic alloys HT-9 and modified 9Cr-1Mo
[DE83-016935] 03 p0354 N84-12300
Clustering and ordering in 3-5 alloys
[AD-A131785] 03 p0452 N84-12974
Localized magnetization arising from spin-dependent impurity potentials in the Wolff model
[AD-A133652] 05 p0742 N84-14871
Corrosion research 06 p0797 N84-15191
Powder metallurgy
[BLL-M-35271-(5828.4)] 06 p0803 N84-15231
Calculation of structure factor for different cluster models of an amorphous alloy
[BLL-M-35293-(5828.4)] 06 p0803 N84-15234
Use of the disk bend test to assess irradiation performance of structural alloys
[DE84-001484] 06 p0806 N84-15255
Dispersion alloys TEXUS-Experiments: TEXUS-01 B TEXUS 7, TEM-01 B — microgravity processing
[NASA-TM-77531] 07 p0973 N84-16308
Effects of alloy composition and processing on the microstructure of D-9 type stainless steel
[DE84-003022] 07 p0975 N84-16321
Application of solidification theory to rapid solidification processing
[AD-A135982] 09 p1283 N84-18380
Evaluation of fatigue-creep crack growth in an engine alloy
[AD-A136956] 10 p1460 N84-19536
Physical metallurgy and alloy design of dual phase steels
[DE84-005182] 11 p1634 N84-20682
Welding with alloying and ultrasonic treatment with an ion beam 12 p1786 N84-21652
Determination of the mixing potential in alloys from experimental data on short-range order
[BLL-M-35498-(5828.4)] 12 p1795 N84-21709
Ion plating of coatings made from high melting point metals
[BLL-RISLEY-TRANS-4879] 12 p1796 N84-21715
Metastable transition metal alloys produced by rapid quenching: Structure and properties
[AD-A138296] 12 p1798 N84-21729
Importance and definition of materials in tribology. Status of understanding 14 p2152 N84-23893
Importance of properties of solids to friction and wear behaviour 14 p2153 N84-23895
Studies of metastable microcrystalline and glassy alloys
[AD-A139941] 15 p2297 N84-24787
The influence of Al2O3 and surface scales on alloy degradation at elevated temperatures
[DE84-007299] 15 p2298 N84-24794
Simulation of heat transfer and fluid flow in the solidification of alloys 15 p2306 N84-24836
Grain refinement of commercial aluminum by niobium and zirconium additions to the melt 15 p2307 N84-24841
Journal of aeronautical materials (selected articles)
[AD-A140181] 16 p2434 N84-25611
Modeling binary alloy solidification processes
[ORNL/CSD-117] 16 p2464 N84-25790
Material selection for controlling stress-corrosion cracking
[ESA-PSS-01-736-ISSUE-1] 16 p2465 N84-25799
On the separation of alloys exhibiting a miscibility gap 17 p2612 N84-26720
Ion implantation metallurgy: A study of the composition, structure and corrosion behavior of surface alloys formed by ion implantation and ion beam mixing
[AD-A140713] 17 p2624 N84-26792
Three-dimensional non-self-similar crack growth in elastic-plastic materials 17 p2678 N84-27055
Liquid metal corrosion considerations in alloy development
[DE84-008512] 18 p2815 N84-27868
Long-term materials test program
[DE84-008899] 18 p2815 N84-27870
Rapidly solidified alloys made by chill block melt-spinning processes 18 p2937 N84-28625
Characterization of the microstructures of various materials
[AD-A141946] 20 p3152 N84-30017

Application of transverse-section analytical electron microscopy to the study of oxidation of metal alloys
[DE84-006415] 20 p3157 N84-30049
High resolution electron microscopy studies of the early stages of decomposition in alloys and ceramics
[DE84-020802] 20 p3163 N84-30067
Method to reveal microstructures in single phase alloys
[AD-D011094] 22 p3555 N84-32512
Processing and consolidation of rapidly solidified alloys: A technology assessment
[DE84-014673] 22 p3557 N84-32523
Certain metallurgical properties of laser welding 23 p3710 N84-33517
Solidification of highly undercooled liquid droplets
[AD-A143892] 23 p3714 N84-33543
The influence of containerless undercooling and rapid solid-state quenching on the superconductive and magnetic properties of some clustering alloy systems
[NASA-CR-171144] 23 p3718 N84-33566
USSR report: Materials science and metallurgy, no. 94
[JPRS-85025] 24 p3868 N84-34512
Anodic electrochemical processing of amorphous alloys 24 p3870 N84-34527
Processing the results of fatigue testing of structural materials damaged by corrosion 24 p3873 N84-34541
Passivation of amorphous alloys with various phosphorus contents 24 p3873 N84-34542
Matched evaporation of alloys in a vacuum 24 p3873 N84-34543
Rare-earth metals and their applications in aviation
[AD-A144410] 24 p3884 N84-34607

ALLUVIUM

Role of geomorphic thresholds in determining alluvial channel morphology
[DE84-003627] 07 p1034 N84-16708
Geophysical exploration surveys for ground water in the San Pedro Basin, Arizona
[PB84-110808] 08 p1179 N84-17684
A regression model for the temporal development of soil pipes and associated gullies in the alluvial-fill valley of the Rio Puerco, central New Mexico 13 p2084 N84-23502
Results of field observations of radio waves in alluvial deposits in Cara state from 1:100.000: Fortaleza, Canirde, Taperuaba, Santa Quiteria, Sobral, and Sao Luiz do Curu
[INPE-3061-NTE/216] 16 p2509 N84-26100
Preliminary evaluation of TM for soils information 20 p3216 N84-30427
Mathematical modeling of longitudinal profile adjustment in alluvial streams 21 p3425 N84-31726
Aggradation and degradation at alluvial-channel beds
[PB84-201557] 22 p3615 N84-32905

ALLYL COMPOUNDS

Laser-induced decomposition of some allyl halides
[AD-A140426] 16 p2463 N84-25786

ALMUCANTAR

U ELEVATION ANGLE

ALOHA SYSTEM

Advanced teleprocessing systems
[AD-A133554] 06 p0825 N84-15377

ALPHA JET AIRCRAFT

Alpha jet pylon 14 p2093 N84-23556

ALPHA PARTICLES

Heavy-ion reaction mechanisms studied with the spin spectrometer
[DE83-015716] 01 p0144 N84-10950
TFTR alpha extraction and measurement project
[DE83-018120] 03 p0448 N84-12947
Cross sections relevant to gamma-ray astronomy: Alpha-particle-induced reactions
[DE83-015533] 03 p0481 N84-13038
Code BETAL to calculation Alpha/Beta activities in environmental samples
[JEN-549] 04 p0578 N84-13816
New-generation low-power radiation survey instruments
[DE84-001716] 05 p0685 N84-14506
Ion beam modification of ceramics
[DE84-003302] 08 p1138 N84-17403
Effect of lower hybrid wave heating on alpha-particle dynamics
[IPPJ-649] 10 p1580 N84-20351
A comment on atomic processes relevant to alpha particle diagnostics 11 p1736 N84-21323
Determining of surface oxide compositions on Alloy 600 using Rutherford backscattering
[DE84-002872] 15 p2299 N84-24797
Low power radiation hard GaAs RAM
[AD-A139930] 15 p2329 N84-24986
Data needs for the track structure of alpha particles and electrons in water
[DE84-009154] 19 p3103 N84-29710
Alpha-particle simulation using NBI beam and ICRF wave
[IPPJ-688] 23 p3827 N84-34270

ALPHA RADIATION

U ALPHA PARTICLES

ALPHABETS

The design of an English word-processor for scientific and technical use in which superscripts, subscripts and Greek characters are operated in one-touch, 1 23 p3741 N84-33709
The design of an English word-processor for scientific and technical use in which superscripts, subscripts and Greek characters are operated in one-touch, 2 23 p3741 N84-33710

ALPHANUMERIC CHARACTERS

NT BINARY DIGITS
NT DIGITS
Utility programs for generating the Hershey character fonts on microcomputers and laboratory plotters
[PB83-220467] 01 p0125 N84-10813
Enhanced character sizes for the VDM-1 video display board 02 p0168 N84-11101
The effects of character stroke width on the visibility of a head-coupled display
[AD-A132048] 04 p0484 N84-13183
Size of letters required for visibility as a function of viewing distance and observer visual acuity
[PB83-250589] 04 p0574 N84-13782
User's guide to Sandia TEX
[DE83-016763] 04 p0582 N84-13840
Graphic and visual presentation of aerospace date 11 p1751 N84-21431
Some mathematical tools for a modeller's workbench 12 p1873 N84-22204

ALPINE METEOROLOGY

Omega Dropwindsonde processing
[PB83-248773] 03 p0412 N84-12700
Studies of the behavior of a snow cover on a mountain slope. 14: Poisson's ratio of snow, 2 15 p2353 N84-25120

ALPS MOUNTAINS (EUROPE)

Determination of a geoid profile across the Alps using Doppler measurements of the US Navy Navigation Satellite System (NNSS) 02 p0234 N84-11534
Alpine cyclogenesis as a complex problem 18 p2889 N84-28335
Upper air sounding subprogram of Alpine Experiment (ALPEX) 18 p2889 N84-28337

ALTERATION

U REVISIONS

ALTERNATING CURRENT

Pulse width modulated DC link converter development
[AD-A134488] 07 p0997 N84-16467
AC voltage calibrations for the 0.1 Hz to 10 Hz frequency range
[PB84-109867] 08 p1163 N84-17570
Extra losses in the inductor windings of induction heaters and electric machines
[BLL-OA-TRANS-3114-(6196.3)] 09 p1306 N84-18534
Measuring accurately single-phase sinusoidal and non-sinusoidal power
[AD-A136408] 09 p1307 N84-18541
AC conductivity of polycrystalline Ca-Alpha-double prime-alumina
[DE84-005529] 11 p1745 N84-21386
Motor power control circuit for ac induction motors
[NASA-CASE-MFS-25323-1] 13 p1985 N84-22686
Corrosion of aluminium caused by alternating current
[BLL-ERA-TRANS-2920] 17 p2621 N84-26776
Novelties in design of instruments for measuring high ac voltages 18 p2826 N84-27940
Spectroscopic determination of the ac voltammetric response
[AD-A137321] 18 p2833 N84-27983
Ion conduction poly(vinyl acetate)
[AD-A142249] 19 p3096 N84-29660
Alternating acoustoelectric current generated by interaction of two waves in acoustic microwaveguide 21 p3380 N84-31449
AC propulsion system for an electric vehicle, phase 2
[NASA-CR-168244] 21 p3390 N84-31514
Magnetic impurity scattering in in situ superconductors
[DE84-012835] 21 p3505 N84-32212
Coupling an induction motor type generator to ac power lines — making windmill generators compatible with public power lines
[NASA-CASE-MFS-25302-2] 23 p3734 N84-33660
Three-phase power factor controller with induced EMF sensing
[NASA-CASE-MFS-25852-1] 23 p3734 N84-33661

ALTERNATING CURRENT GENERATORS

U AC GENERATORS

ALTERNATIONS

Low-cost stator material for M734 alternators
[AD-A126804] 07 p0997 N84-16464

ALTERNATIVES

An alternative approach to quantum statistics
[AD-A131525] 01 p0137 N84-10899

ALTERNATORS (GENERATORS)

U AC GENERATORS

ALTIMETERS

NT LASER ALTIMETERS
NT RADIO ALTIMETERS
Variations of ocean surfaces from ERS-1 altimeter data for repetitive orbits 02 p0233 N84-11532
Test operations procedure: Absolute altimeters
[AD-A131746] 03 p0332 N84-12165
Interpretation of a SAR (Synthetic Aperture Radar) image of the Bay of Biscay
[AD-A135981] 09 p1303 N84-18517
Non-gravitational force modelling and altimeter measurement modelling for SEASAT-A satellite 11 p1621 N84-20609
Altitudinal change in continuous absorption in atmospheric transparency window 8-12 microns 11 p1670 N84-20901
Oceanic mesoscale variability and general circulation from satellite altimetry: A status report
[AD-P002653] 11 p1689 N84-21018
Topex: Observing the oceans from Space
[NASA-CR-173490] 13 p2018 N84-23085
Satellite techniques for determining the geopotential for sea-surface elevations 17 p2717 N84-27296
The importance of altimeter and scatterometer data for ocean prediction 17 p2720 N84-27316
First- and second-phase gravity field solutions based on satellite altimetry
[AD-A142256] 19 p3054 N84-29381
SEASAT observations of lithospheric flexure 20 p3221 N84-30483
SEASAT altimetry for surface height of inland seas 20 p3222 N84-30472
Sensor noise and Kalman filter for aided inertial navigation system
[AD-A143360] 22 p3534 N84-32372

ALTITUDE

NT FLIGHT ALTITUDE
NT HIGH ALTITUDE
NT LOW ALTITUDE
NT SEA LEVEL
Variability of atmospheric density in the middle atmosphere
[AD-A131985] 03 p0407 N84-12667
Analysis of AFGL aircraft icing data
[AD-A137197] 10 p1539 N84-20087
A directory of European, Middle Eastern, and North African coastal ground control points for mapping satellite images
[AD-A142019] 20 p3228 N84-30512
Oxygen affinity of hemoglobin, 3 hours after passive increase in altitude from 400 to 1800 metres
[RAE-TRANS-2118] 22 p3630 N84-33004
Meteorological and climatological conditions affecting the vertical structure of visibility in northern Germany
[AD-A144352] 24 p3934 N84-34902

ALTITUDE ACCLIMATIZATION

Physiological adjustments to hemorrhage, altitude, and work
[AD-A137781] 11 p1695 N84-21057
Efficacy of conditioning animals to hypoxia during sleep 15 p2377 N84-25261

ALTITUDE CONTROL

Flight test validation of a design procedure for digital autopilots 03 p0312 N84-12036
Fixed-base simulator investigation of Display/SCAS requirements for army helicopter low-speed tasks
[AD-A134123] 05 p0630 N84-14140
Design and analysis of a longitudinal ride comfort control system for a Short Take-Off and Landing (STOL) aircraft
[UTIAS-TN-254] 17 p2748 N84-27442

ALTITUDE SICKNESS

Prevention of acute mountain sickness by dexamethasone
[AD-A131533] 01 p0114 N84-10737
Variable inhibition by falling CO2 of hypoxic ventilatory response in man
[AD-A130656] 06 p0887 N84-15768
Ventilation and ventilatory control in high altitude pulmonary edema and acute mountain sickness
[AD-A135941] 10 p1548 N84-20145
A software package for administering and monitoring the Environmental Symptoms Questionnaire (ESQ-3)
[AD-A140288] 16 p2538 N84-26293
Verification of an altitude decompression sickness prevention protocol for Shuttle operations utilizing a 10.s psi pressure stage
[NASA-TM-58259] 18 p2899 N84-28392

ALTITUDE SIMULATION

Spectroscopic measurements of the Laser-HANE plasma
[AD-A138685] 13 p1995 N84-22947

Preliminary engineering report for design of a subscale ejector/diffuser system for high expansion ratio space engine testing
[NASA-CR-171137] 21 p3354 N84-31273

ALTITUDE TESTS
NT HIGH ALTITUDE TESTS

ALTITUDE TOLERANCE
The influence of cardiorespiratory fitness on the decrement in maximal aerobic power at high altitude
[AD-A142218] 19 p3066 N84-29452

ALU (COMPUTER COMPONENTS)
U ARITHMETIC AND LOGIC UNITS

ALUMINA
U ALUMINUM OXIDES

ALUMINATES
Effects of surface chemistry on hot corrosion life
[NASA-CR-174683] 15 p2295 N84-24774
Polycrystalline MgAl2O4 spinel for high performance windows
[AD-P003202] 17 p2592 N84-26615

ALUMINIZING
U ALUMINUM COATINGS

ALUMINUM
NT POWDERED ALUMINUM
NT SINTERED ALUMINUM POWDER
Melting of metals above 100 GPa
[DE83-015261] 01 p0046 N84-10299
Some effects of anisotropic roughening on the wetting of metal surfaces
[AERE-R-10976] 01 p0047 N84-10305
Structure and properties of polymers and organosilanes adsorbed onto oxidized aluminum and titanium
[AD-A130753] 01 p0050 N84-10321
New fabrication process for a tubular LiAl/FeS cell battery
[DE83-014305] 01 p0074 N84-10488
Assessment of ultrasonic reference block calibration methodology
[PB83-225870] 01 p0086 N84-10558
Matrix effects in ion-induced emission as observed in Ne collisions with Cu-Mg and Cu-Al alloys
[NASA-TM-83061] 01 p0141 N84-10923
Particle-velocity measurements of laser-induced shock waves using ORVIS
[DE83-016503] 02 p0228 N84-11494
Dynamic heterogeneous response of aluminum and copper to stress waves
[DE83-015229] 02 p0232 N84-11522
Heat pipes made of roll bond panels
[BMFT-FB-T-83-116] 02 p0242 N84-11588
Phonon-induced enhancements of the energy gap and critical current in superconducting aluminum
[DE83-015210] 03 p0455 N84-12996
Reduction of tritium permeation through iron using aluminum-ion implantation
[DE84-000184] 04 p0500 N84-13279
Aluminum as a global high-pressure equation-of-state standard
[DE84-000153] 04 p0501 N84-13287
A rectangular gate merged MOSBJT
[AD-A132450] 04 p0525 N84-13453
Particle velocity measurements in laser irradiated foils using ORVIS
[DE83-016629] 04 p0541 N84-13563
Thermal modeling of laser welding with a quasi-1-dimensional approach
[DE84-001292] 04 p0544 N84-13585
Kriging of geological and physical parameters from Yucca Flat, NTS
[DE83-018227] 04 p0550 N84-13625
Measurement of precipitate nucleation times in molten metals by pulsed surface melting
[DE84-002383] 05 p0656 N84-14311
Shock tube study of the ignition and combustion of aluminum
[AD-A134035] 05 p0661 N84-14345
Behavior of aluminum on the burning surface of a solid propellant 05 p0662 N84-14351
Fracture behavior of unidirectional boron/aluminum composite laminates
[NASA-CR-3753] 06 p0797 N84-15196
Potentiostatic investigation of the kinetics of the breakdown of the passivity of aluminium in aqueous medium
[BLL-OA-TRANS-3088-(6196.3)] 06 p0804 N84-15238
Ion plating in corrosion protection
[DE84-001182] 06 p0807 N84-15256
A small and light weight heat exchanger for on-board helium refrigerator 06 p0819 N84-15339
Manufacturing technology for high quality swept-culture growth quartz
[AD-A133500] 06 p0923 N84-15996
Studies of neutron and proton nuclear activation in low-Earth orbit 2 06 p0930 N84-16041
A contribution to the manufacture and characteristics of steel-wire-reinforced aluminum
[NASA-TM-76977] 07 p0974 N84-16310
High strain rate characterization of materials
[AD-A134342] 07 p1016 N84-16593
An experimental and numerical investigation of pressure-shear waves in 6061-T6 aluminum and alpha-titanium 08 p1129 N84-17345
A technique for the nondestructive detection of voids and composition anomalies in metal matrix composite wires using X or gamma rays
[AD-A135481] 08 p1132 N84-17359
An evaluation of overload retardation behavior and overload retardation models of Ti-6Al-4V sheet titanium alloy
[AD-A135548] 08 p1132 N84-17362
Eddy current thickness gauge for reel-to-reel tape processes
[DE84-004050] 08 p1162 N84-17567
Rabbit neurobehavioral toxicity from aluminum
[PB84-103266] 08 p1198 N84-17809
Aluminium extrusion: A metal forming process 09 p1293 N84-18444
The manufacture and finishing of aluminium extrusion dies 09 p1293 N84-18447
Development of a planar heterojunction bipolar transistor for very high speed logic
[AD-A136341] 09 p1306 N84-18539
Rotating cathode device for molten salt bath — to prepare metallic titanium or aluminum
[BLL-OA-TRANS-3173-(6196.3)] 09 p1317 N84-18604
Laser-induced surface migration via surface plasmons
[AD-A136436] 09 p1321 N84-18633
Mechanically working fully-automatic plant for the regeneration of used aluminum cap screws for bottles
[BMFT-FB-T-83-215] 10 p1472 N84-19615
Biaxial tension tests of HERF 304L stainless steel
[DE84-006205] 11 p1634 N84-20685
Development of copper-coated aluminum-shielded wire 11 p1719 N84-21214
Studies of 3-5 compound semiconductors for optical and microwave applications
[AD-A137849] 11 p1744 N84-21381
USSR report: Materials science and metallurgy
[JPRS-UMS-84-001] 12 p1783 N84-21633
Fracture of aluminum in uniaxial and biaxial extension at 473-77 deg K 12 p1783 N84-21635
Effect of electron irradiation on relaxation of tension in aluminum and aluminum alloys 12 p1784 N84-21639
Influence of aging in martensite state on mechanical properties of Cu-Al-Zn system Beta-alloy 12 p1784 N84-21641
Nitration of intermetallide TiAl3 12 p1785 N84-21646
The peel strength of aramid aluminum laminate (ARALL)
[VTH-LR-397] 12 p1790 N84-21673
Aramid Aluminum Laminate (ARALL): A material for the next generation of aircraft, a state of the art
[VTH-LR-400] 12 p1790 N84-21674
Modelling of deformation and fracture in high-temperature structural materials
[DE84-006452] 12 p1798 N84-21731
Quality and reliability of steel wire ropes
[BLL-M-35461-(5828.4)] 12 p1821 N84-21872
Solar cell metallization: Historical perspective 12 p1838 N84-21981
Conditions for inflammation of accumulated aluminum in the propellant combustion zone 13 p1947 N84-22660
Combustion of high-aluminum-content propellants 13 p1947 N84-22661
Revision of design values for 7075-T7351 and 7075-T7651 aluminum plate
[AD-A139092] 13 p1961 N84-22740
Energy and statistical effects in the dynamic fragmentation of metal rings
[DE84-005458] 14 p2128 N84-23760
Aluminum-air research and development program. Summary report for FY 1982
[DE84-008360] 14 p2142 N84-23848
Linear energy transfer spectrum measurement experiment (P0006) 15 p2276 N84-24665
Manufacturing and properties of aluminum sheet from mixed scrap materials
[BMFT-FB-T-84-007] 15 p2296 N84-24776
Bimetal and multimetal galvanic corrosion prediction using long- and short-term polarization curves
[AD-A139893] 15 p2297 N84-24786
Selection of a mineral-base lubricant for the cold rolling of aluminum strip 15 p2401 N84-25412
Estimate of the consumer cost of aluminum fuel for electric vehicles
[DE84-008327] 15 p2421 N84-25539
The black-anodizing of aluminum with inorganic dyes
[ESA-PSS-01-703-ISSUE-1] 16 p2465 N84-25798
Evaluation of process systems for effective management of aluminum finishing wastewaters and sludges
[PB84-170661] 16 p2520 N84-26178
Corrosion of aluminium caused by alternating current
[BLL-ERA-TRANS-2920] 17 p2621 N84-26776
Thermally-sprayed active metal coatings for corrosion protection in marine environments
[AD-A140783] 17 p2624 N84-26795
Noise of 1/f form in polycrystalline aluminum films 17 p2633 N84-26843
A study of aluminium brazes using hot stage scanning electron microscopy
[AERE-R-11063] 18 p2850 N84-28097
Plasma studies on ion diodes
[AD-A142183] 19 p3107 N84-29743
Survey and analysis of materials research and development at selected federal laboratories
[DE84-008904] 20 p3145 N84-29967
Impact dynamics research on composite transport structures 20 p3146 N84-29975
Potential-determining reactions during pitting corrosion of aluminum
[DE84-007695] 20 p3155 N84-30031
Corrosion of 5083 aluminum by aqueous sodium sulfate
[DE84-012033] 20 p3156 N84-30045
Galvanic corrosion of an aluminum O-ring
[DE84-011345] 20 p3157 N84-30047
Sulfidation- and oxidation-resistant ferritic stainless steel containing aluminum
[PB84-189521] 20 p3165 N84-30101
Development of hydrocyclones for aluminum/air battery applications
[DE84-011403] 20 p3179 N84-30197
Residual strength of five boron/aluminum laminates with crack-like notches after fatigue loading
[NASA-CR-3815] 21 p3357 N84-31290
Overlay coating degradation by simultaneous oxidation and coating/substrate interdiffusion
[NASA-TM-83738] 21 p3365 N84-31344
An analytical evaluation of spall suppression of impulsively loaded aluminum panels based on a 1-dimensional stress wave propagation model
[AD-A143173] 21 p3422 N84-31708
USSR report: Materials science and metallurgy
[JPRS-UMS-84-006] 23 p3705 N84-33489
MHD technology in aluminum casting 23 p3706 N84-33491
Structure and properties of polymers and organosilanes absorbed onto oxidized aluminum and titanium
[AD-A143935] 23 p3724 N84-33599
Fatigue induced cracking in aluminum LN-2 shroud of 39 foot vacuum chamber 24 p3862 N84-34476
Composite materials with aluminum matrix reinforced with carbon fibers 24 p3872 N84-34537
Energy-absorbing earcup engineering feasibility evaluation
[AD-A144179] 24 p3938 N84-34924

ALUMINUM ALLOYS
The effects of powder metallurgical processing and intermediate thermal mechanical treatment on the fatigue properties of high strength aluminum alloys
[AD-A130790] 01 p0044 N84-10282
Changes in acoustic emission peaks in precipitation strenghtened alloys with heat treiment
[DE83-013611] 01 p0045 N84-10289
High-temperature corrosion of iron and iron-based alloys in sulfur-containing atmospheres
[DE83-013843] 01 p0045 N84-10290
Corrosion evaluation of aluminum 5083
[DE83-015786] 01 p0047 N84-10301
Effects of bonding temperatures on fatigue crack growth
[AD-A130396] 01 p0094 N84-10615
Calculation of short-range-order structures in Cu-14.5 percent (atom.) Al
[BLL-M-35115-(5828.4)] 01 p0152 N84-10997
Metal matrix composite structural panel construction
[NASA-CASE-LAR-12807-1] 02 p0187 N84-11214
Metallurgical characterization of the fracture of several high strength aluminum alloys
[NASA-TP-1086] 02 p0189 N84-11230
Stress-corrosion behavior of aluminum-lithium alloys in aqueous environments
[NASA-TM-85853] 02 p0193 N84-11256
An evaluation of the effect of cell voltage and termination current on barrier anodic Al2O3 film formation
[DE83-013961] 02 p0195 N84-11266
Plating on aluminum: Influence on varying zinc immersion treatment times
[DE83-015246] 02 p0196 N84-11272
The velocity of sound behind strong shock waves in 2024 Al
[DE83-015927] 02 p0220 N84-11446

Fatigue behavior of long and short cracks in wrought and powder aluminum alloys
[AD-A131324] 02 p0231 N84-11517
Response of cracks in structural materials to short pulse loads
[AD-A131565] 02 p0231 N84-11519
Solidification of aluminum and aluminum alloys at high levels of undercooling 03 p0351 N84-12286
Mechanical property evaluation of P/M (Powder-Metallurgy) aluminum 7090-T7E71 plate
[AD-A132058] 03 p0352 N84-12290
Galvanic coupling between D6AC steel, 6061-T6 aluminum, Inconel 718 and graphite-epoxy composite material: Corrosion occurrence and prevention
[NASA-TP-2236] 04 p0497 N84-13263
The localized corrosion of aluminum alloys: A review
[AD-A132582] 04 p0498 N84-13269
Characterization of the structure and substructure of thermally transformation cycled Cu-Zn-Al shape memory alloys
[AD-A132341] 04 p0499 N84-13270
Segregation and domain structure in rapidly solidified Ni3Al
[DE83-017168] 04 p0504 N84-13306
Low-hysteresis materials for magnetic refrigeration: Gd sub 1-x/Er sub x/Al2
[DE84-001685] 04 p0505 N84-13307
Bending fatigue of a particulate SiC/Al 6061 metal matrix composite
[AD-A134108] 05 p0653 N84-14293
The effect of microstructure on the properties of high strength aluminum alloys
[AD-A133997] 05 p0653 N84-14296
Fatigue crack growth rates of high-magnesium aluminum-magnesium alloys as influenced by solution treatment time and alloy content
[AD-A132926] 05 p0655 N84-14305
High speed machining of space shuttle external tank liquid hydrogen barrel panel
[NASA-TM-82557] 05 p0662 N84-14352
Lattice dynamics of the mixed-conducting intermetallic compound alpha-LiAl
[DE83-014334] 05 p0756 N84-14959
The effect of superposing ripple loading of maneuver load cycles
[AD-A132653] 06 p0786 N84-15148
Choice of a melting installation for aluminum alloy
[BLL-OA-TRANS-3095-(6196.3)] 06 p0804 N84-15239
Rapid solidification processing and powder metallurgy of Al alloys
[AD-A133873] 06 p0806 N84-15250
Investigation of fatigue crack-growth resistance of aluminum alloys under spectrum loading
[AD-A133206] 06 p0806 N84-15251
Fatigue crack propagation in Al-alloy lugs under constant amplitude and maneuver spectrum loading
[TAE-497] 06 p0857 N84-15585
The effect of some water-displacing corrosion preventatives on corrosion of aluminum alloys 7075-T651 and 2024-T6
[ARL-MAT-REPT-115] 07 p0973 N84-16307
Friction and wear behavior of aluminum and composite airplane skins
[NASA-TP-2262] 08 p1103 N84-17175
Study of intermetallic compounds in ternary systems Al-Ba-Nd and Al-Ba-Yb
[BLL-M-35387-(5828.4)] 08 p1129 N84-17343
Microstructural and mechanical aspects of fatigue crack initiation and growth in a 2048 aluminum alloy
08 p1130 N84-17347
Aluminum-manganese plating from a molten salt bath
[AD-A135240] 08 p1131 N84-17356
Precipitation mechanisms in aluminum-lithium alloys
[AD-A134836] 08 p1133 N84-17367
Segregation of Zn solutes to high-angles (001) twist grain boundaries in Al
[DE84-003455] 08 p1134 N84-17375
Over-aging of aluminum alloys
[DE84-004927] 08 p1135 N84-17382
Fundamental mathematical principles for electrochemical engineering
[DE84-002181] 08 p1221 N84-17975
Mechanical properties of Mn-Al-C system alloys
[BLL-M-35432] 09 p1280 N84-18362
Synthesis and properties of elevated temperature P/M aluminum alloys
[AD-A135956] 09 p1283 N84-18379
Precipitation in rapidly solidified Al-Mn alloys
[AD-A136128] 09 p1284 N84-18385
A fundamental study of P/M processed elevated temperature aluminum alloys
[AD-A136154] 09 p1284 N84-18387
The role of hydrogen in the stress corrosion failure of high strength Al-Zn-Mg alloys
[AD-A136212] 09 p1284 N84-18388
The use of interference-fit bolts or bushes and hole cold expansion for increasing the fatigue life of thick-section aluminium alloy bolted joints
[AR-002-973] 09 p1329 N84-18676
Key to aluminium alloys. Designations, compositions, trade names of aluminium materials, first edition
[ISBN-3-87017-160-X] 10 p1458 N84-19522
Effects of fatigue on the G.P. zones in Al-Zn alloys
[AD-A137518] 10 p1459 N84-19530
Size distribution for G.P. zones in dilute Al-Zn alloys
[AD-A137519] 10 p1459 N84-19531
Workhardening correlations based on state variables in some FCC metals in monotonic loadings
[DE84-004880] 10 p1461 N84-19540
Design and characterization of Mn-Al-C alloys for permanent magnet applications
[DE84-004881] 10 p1461 N84-19542
Effect of specimen geometry on stable crack growth by nonlinear material behavior
[GKSS-83-E-38] 10 p1463 N84-19554
Fatigue and fracture toughness in aluminum
[NLR-MP-82058-U] 10 p1463 N84-19556
Rapid solidification processing of Al-Cu-Li-Mg alloys
[VTH-LR-380] 10 p1464 N84-19560
Fatigue crack growth in aluminum alloy sheet material under constant amplitude and simplified flight simulation loading
[VTH-LR-381] 10 p1464 N84-19561
Pyrotechnic shock test and test simulation
10 p1508 N84-19873
Investigation into the role of sodium chloride deposited on oxide and metal substrates in the initiation of hot corrosion
[NASA-CR-173377] 11 p1633 N84-20676
Study of the effects of metallurgical factors on the growth of fatigue microcracks
[AD-A137954] 11 p1669 N84-20888
Re-examination of beta-alumina doped with chromium using photoacoustic spectroscopy
11 p1742 N84-21369
Transport behavior of multivalent beta aluminas
11 p1743 N84-21370
The corrosion-fatigue cooperative testing programme
12 p1783 N84-21497
USSR report: Materials science and metallurgy
[JPRS-UMS-84-001] 12 p1783 N84-21633
Microstructure of aluminum alloy in early stages of spalling 12 p1783 N84-21634
Effect of electron irradiation on relaxation of tension in aluminum and aluminum alloys
12 p1784 N84-21639
Analytical determination of resistance of aluminium alloys to deformation
[BLL-M-35476-(5828.4)] 12 p1796 N84-21714
Creep and creep recovery of 2618-T61 aluminum under variable temperature
[AD-A137976] 12 p1797 N84-21723
Modelling of deformation and fracture in high-temperature structural materials
[DE84-006452] 12 p1798 N84-21731
An assessment of the static strength of flush head aluminum alloy rivets in two grades of aramid aluminium laminate (ARALL) sheet
[VTH-LR-391] 12 p1827 N84-21913
Review of the effects of microstructure on fatigue in aluminum alloys
[NASA-TM-83626] 13 p1960 N84-22735
Clarification of environmental effects in stress corrosion cracking
[AD-A138581] 13 p1960 N84-22737
The fatigue of powder metallurgy alloys
[AD-A138714] 13 p1960 N84-22738
Prediction of fatigue crack-growth patterns and lives in three-dimensional cracked bodies
[NASA-TM-85787] 13 p2000 N84-22979
Corrosion and load transfer effects on fatigue of mechanically fastened joints. Fatigue of zero load transfer specimen
[AD-A139042] 13 p2001 N84-22985
The application of cold worked holes (in aircraft structures)
[NLR-TR-81120-U] 13 p2002 N84-22990
The Record of Electrical and Communication Engineering Conversazione Tohoku University, volume 52, no. 4
[ISSN-0385-7719] 13 p2039 N84-23228
All-aluminum-alloy UHV chamber for molecular beam epitaxy, 1 13 p2039 N84-23229
Statistical and vibratory fatigue limit characteristics of aluminum cast alloys 14 p2093 N84-23558
Welding of components made of the aluminum cast alloy A357 14 p2094 N84-23561
Aluminum precision forging components
14 p2094 N84-23563
An investigation of the structure and high temperature mechanical properties of oxide dispersion strengthened alloys
[AD-A139359] 14 p2128 N84-23756
Metastable phases of rapidly solidified Al-rich, Al-Fe alloys
[AD-A139598] 14 p2128 N84-23757
Ion-induced surface modification of alloys
[DE84-006664] 14 p2243 N84-24468
The use of Arall in fuselage skins
[AD-B080831] 15 p2260 N84-24572
Rapid solidification research on aluminum alloys at Delft University of Technology — bibliographies
15 p2295 N84-24771
Effect of preferred orientation on crack growth properties of Ti-6Al-4V alloys, part 2
[BR89101-PT-2] 15 p2296 N84-24780
Fracture toughness and corrosion properties of the aluminum plate alloys 7010-T651 and 7150-T6E189
[NLR-TR-82125-U] 15 p2296 N84-24781
Engineering property comparisons of PM alloy X7091-T7E69 and IM alloy forgings
[NLR-TR-82054-U] 15 p2296 N84-24782
Effect of cooling rate on corrosion properties and microstructure of high strength aluminum alloys
[NLR-TR-82105-U] 15 p2297 N84-24783
Prediction of creep and creep relaxation of AL 2618 under variable multiaxial stresses
[AD-A139950] 15 p2297 N84-24788
Spin correlations near the farromagnetic to spin glass crossover
[DE84-007385] 15 p2299 N84-24799
Effect of preferred orientation on crack growth properties of Ti-6Al-4V alloys, part 1
[BR89100-PT-1] 15 p2299 N84-24802
Determination of the susceptibility of metals to stress corrosion cracking — testing aluminum alloys
[ESA-PSS-01-737-ISSUE-1] 16 p2465 N84-25800
Utilization of zirconium wastes in Al-special alloys
[BMFT-FB-T-84-020] 16 p2465 N84-25802
Short pulse fracture mechanics
[AD-P003105] 16 p2467 N84-25810
Fatigue crack growth rate data for aluminum alloy 6061-t651 plate
[AD-A140325] 16 p2469 N84-25824
Preparation of dispersion alloys: Component separation during cooling and solidification of dispersions of immiscible alloys 17 p2613 N84-26725
Solidification of Al-Pb alloys under microgravity in Texus-7, preliminary report 17 p2613 N84-26730
Microstructure and orientation effects on properties of discontinuous silicon carbide/aluminum composites
[NASA-TP-2302] 17 p2617 N84-26749
Study of the influence of metallurgical factors on fatigue and fracture of aerospace structural materials
[AD-A140659] 17 p2623 N84-26789
Coating of self-catalytic nickel on aluminum and aluminum alloys
[AD-A140697] 17 p2623 N84-26791
Characterization of a sample of aluminum alloy longeron in 7050 T73652 of Alcoa origin. Summary of test number MO 570300 18 p2794 N84-27729
Modeling degradation and failure of Ni-Cr-Al overlay coatings
[NASA-TM-83672] 18 p2813 N84-27858
Experimental and theoretical studies of creep crack growth
[AD-A141193] 18 p2814 N84-27862
Tensile strength and recrystallization of the 7010 and 7475 alloys: Low cycle fatigue of the 7010 alloy — aluminum alloys
[REPT-18/5069-M] 18 p2815 N84-27873
The locus of environmental crack growth in bonded aluminium alloy joints
[AERE-R-11069] 18 p2816 N84-27880
The use of novel processing procedures for improving the overall fatigue resistance of high strength aluminum alloys
[AD-A141107] 19 p2993 N84-28966
A fundamental study of P/M processed elevated temperature aluminum alloys
[AD-A141780] 19 p2994 N84-28974
The effect of thickness on fatigue crack propagation in 7475-T731 aluminum alloy sheet
[NASA-CR-172367] 19 p3035 N84-29251
Application of electrochemical and mechanical impedance measurements to corrosion induced failures
[AD-A142468] 20 p3153 N84-30021
Fatigue behavior of long and short cracks in wrought and powder aluminum alloys
[AD-A142609] 20 p3153 N84-30024
Ductile aluminide alloys for high temperature applications
[DE84-011037] 20 p3156 N84-30038

Method of enhancing selective isotope desorption from metals
[DE84-011031] 20 p3156 N84-30044
Liquid metal infiltration of an aluminum alloy into a packed column of B4C particles
[DE84-012136] 20 p3158 N84-30055
Influence of temperature on the Delta K sub th and da/dN of LY-12CS aluminum alloy 20 p3160 N84-30067
High temperature X-ray decomposition studies of alpha phase nickel-silicon and beta phase copper-aluminum-nickel alloys 21 p3364 N84-31338
Corrosion fatigue of an Al-Zn-Mg alloy and an Al-Mg-Li alloy 21 p3364 N84-31339
Flight service evaluation of two aluminum-brazed titanium spoilers
[NASA-CR-172371] 21 p3364 N84-31343
Powder metallurgy of light metal alloys for demanding applications
[AD-A142066] 21 p3366 N84-31352
The effects of deformation mode and microstructure fracture-related properties of Ti alloys
[AD-A142691] 21 p3366 N84-31353
Superplasticity in thermomechanically processed high magnesium aluminum-magnesium alloys
[AD-A143164] 21 p3366 N84-31356
Rapid solidification and undercooling of aluminum germanium alloys: Characterization and control of microstructure
[DE84-012395] 21 p3367 N84-31361
Deposits on light alloys — aluminum
[CETIM-12-F-360] 21 p3368 N84-31371
Investigation of in position end to end welding of an aluminum alloy by electron beam
[CETIM-12-Y-442] 21 p3414 N84-31652
Ocean thermal energy conversion: Materials issues
[DE84-012094] 21 p3434 N84-31790
Creep transitions in aluminum solid-solution alloys 22 p3550 N84-32472
The importance of impact pressure in the development of the process of formation of bonds between metals in the solid phase
[BLL-M-35656-(5828.4)] 22 p3550 N84-32473
Mechanical property data 7175-t736 aluminum alloy: Hand forging
[AD-A143328] 22 p3555 N84-32511
Role of grain size on the brittle to ductile transition of the strongly ordered alloy Ni3Al
[DE84-014904] 22 p3556 N84-32519
Coating developments to restrict strategic materials usage 23 p3704 N84-33483
USSR report: Materials science and metallurgy
[JPRS-UMS-84-006] 23 p3705 N84-33489
Activated aluminum alloy for generating hydrogen fuel 23 p3705 N84-33490
Study of size factor effect on low-cycle fatigue of aluminum alloys 23 p3706 N84-33492
Deformation and failure of titanium aluminide 23 p3709 N84-33510
Microscopic studies of accelerated destruction of plastic contact in kinematic pairs from different metals
[ISSN-0208-5658] 23 p3716 N84-33554
The influence of grain structure, testing temperature and environment on the monotonic and low cycle fatigue behavior of a high strength aluminum-copper-lithium alloy 23 p3716 N84-33556
The role of hydrogen in the stress corrosion cracking of 7XXX-series aluminum alloys 23 p3717 N84-33561
Ductile aluminide alloys for high temperature applications
[DE84-014317] 23 p3719 N84-33575
Engineering property comparisons of Powder Metallurgy (PM) alloy X7901-T7E69 and Ingot Metallurgy (IM) alloy forgings
[NLR-MEMO-SM-83-050-U] 23 p3720 N84-33583
The corrosion properties of Spacelab structural alloy aluminum 2219-T851
[ESA-STR-212] 23 p3720 N84-33585
Effect of boundary conditions on the damping characteristics of a randomly excited cast nickel-aluminum bronze specimen at low stress levels
[AD-A143685] 23 p3761 N84-33837
Features of laser welding of AMg6 alloy 24 p3870 N84-34525
USSR report: Materials science and metallurgy, no. 91
[JPRS-84129] 24 p3871 N84-34533
Significance of the environment in corrosion cracking of Al-Mg and Al-Li-Mg system alloys 24 p3871 N84-34534
Structure and properties of granulated aluminum alloys containing transition metals 24 p3872 N84-34535
Failure of aluminum alloy in the preplitting stage 24 p3874 N84-34549
Predicting fatigue durability of duralumin specimens 24 p3874 N84-34550
Study of specifics of formation of stress and strain in making circular welded joints in aluminum alloy envelopes 24 p3876 N84-34560
Introduction to composite materials
[AD-A144274] 24 p3879 N84-34578
Macroseegregation in aluminum alloy ingot cast by the semicontinuous direct chill method 24 p3883 N84-34600
Directional solidification of Al2-Cu-Al and Al3-Ni-Al eutectics during TEXUS rocket flight
[NASA-TM-77552] 24 p3883 N84-34602
Investigation of rapidly solidified Ni3Al-based alloys
[AD-A144174] 24 p3883 N84-34604
Stress corrosion cracking of wrought and P/M high strength aluminum alloys
[AD-A144279] 24 p3884 N84-34606
The use of adhesive-bonded rivets to lessen the reductions in fatigue life caused by rivet holes
[ARL-STRUC-REPT-399] 24 p3887 N84-34617
Modelling for fatigue crack growth prediction in Mirage IIIO frame 26
[ARL-STRUC-REPT-401] 24 p3912 N84-34772
Stability analysis of elastic-plastic rectangular plate with opening 24 p3958 N84-35062

ALUMINUM ARSENIDES
Development of mechanically-stacked multijunction solar cell for concentrator applications
[DE84-008355] 15 p2363 N84-25177

ALUMINUM BORON COMPOUNDS
Features of physiochemical reaction in aluminum-boron composite material 12 p1783 N84-21636
Fabrication of pressure vessels from fiber reinforced aluminum by electroforming for space application
[BMFT-FB-W-84-009] 19 p3032 N84-29235

ALUMINUM CHLORIDES
Process and cell arrangement for producing difficult to reduce elements by fused salt electrolysis
[BLL-OA-TRANS-3137-(6196.3)] 08 p1129 N84-17339
Electrochemical and spectroscopic studies of polypyridine complexes of Fe(2)/(3) and Ru(2)/(3) in the aluminum chloride: N-(1-Butyl)Pyridinium chloride molten salt
[AD-A139170] 14 p2122 N84-23715
Dehydration of aluminum chloride hexahydrates: A technical assessment
[DE84-013086] 21 p3362 N84-31328
Deactivation of thionyl chloride cells
[AD-D011113] 22 p3615 N84-32908

ALUMINUM COATINGS
Characterization of aluminum oxide layers (pretreatment of plated aluminum sheet metal for adhesive bonding)
[MBB-BB-549/83-O] 07 p0977 N84-16330
Detection and performance of defects in aluminum coated steels
[DE84-004175] 10 p1461 N84-19545
Aluminum foil shield effectiveness for electronic cables 11 p1719 N84-21215
Erosion of corrosion resistant coatings for jet engine compressors
[NLR-MP-83010-U] 12 p1771 N84-21550
Thermodynamics and kinetics of the gas phase and pack aluminide coating formation on iron and steel 13 p2049 N84-23291
Solid-phase reaction of dispersed graphitized material with aluminium and nickel
[BLL-M-35633-(5828.4)] 22 p3551 N84-32482
Practical implications of the use of aluminide coatings for the corrosion protection of superalloys in gas turbines 23 p3703 N84-33476
Corrosion protective properties of coatings obtained by hydraulic pulse compacting of aluminum powder 24 p3875 N84-34553

ALUMINUM COMPOUNDS
NT ALUMINATES
NT ALUMINUM ARSENIDES
NT ALUMINUM CHLORIDES
NT ALUMINUM NITRIDES
NT ALUMINUM OXIDES
NT ALUMINUM SILICATES
NT ANDESITE
NT SAPPHIRE
Preliminary study of the electrolysis of aluminum sulfide in molten salts
[DE83-014552] 01 p0038 N84-10242

ALUMINUM GALLIUM ARSENIDES
Matrix calibration for the quantitative analysis of layered semiconductors by secondary ion mass spectrometry
[AD-A130972] 02 p0298 N84-11954
Point-by-Point matrix effect calibration for the quantitative analysis of layered semiconductors by secondary ion mass spectrometry
[AD-A134099] 05 p0752 N84-14933
AlGaAsSb vapor phase epitaxy and laser program
[AD-A133123] 06 p0922 N84-15995
Organometallic epitaxy for GaAs/AlGaAs microwave transistors and integrated circuits
[AD-A133569] 06 p0923 N84-16001
Infrared devices for control applications
[BMFT-FB-T-83-247] 10 p1579 N84-20349
GaAs gigabit monolithic optoelectronic tranamitter
[AD-A136894] 10 p1589 N84-20413
High speed FETs fabricated in GaAs/AlGaAs layered structures prepared by molecular beam epitaxy
[AD-A141058] 19 p3013 N84-29096
Process in manufacturing high efficiency AlGaAs/GaAs solar cells by MO-CVD 19 p3044 N84-29311

ALUMINUM GRAPHITE COMPOSITES
Select fiber composites for space applications: A mechanistic assessment
[NASA-TM-83631] 13 p1954 N84-22702
Loss factors measured in metal matrix composite materials
[AD-A143542] 22 p3545 N84-32440

ALUMINUM NITRIDES
Fabrication of SiC, Si3N4 and AlN combustion synthesis
[DE84-001766] 05 p0660 N84-14339
Densification of shock-treated aluminum nitride and aluminum oxide
[DE84-003251] 07 p0968 N84-16273
X-ray line broadening studies on aluminum nitride, titanium carbide and titanium diboride modified by high pressure shock loading
[DE84-003257] 10 p1463 N84-19553

ALUMINUM OXIDES
NT SAPPHIRE
Investigations into the burning-out of organic substances in the ceramic body
[NASA-TM-77065] 01 p0049 N84-10315
Hot isostatic pressing of ceramic powder compacts
[AD-A131514] 01 p0050 N84-10324
Report of the research assistance task force on beta-alumina for sodium-sulfur batteries
[DE83-013616] 01 p0074 N84-10486
Sintering behavior of refractories in the ternary system ZrO2-Al2O3-Cr2O3 in dependence of the firing atmosphere
[BMFT-FB-T-83-105] 02 p0197 N84-11285
Investigation on the oxide layer of aluminium with respect to adhesive bonding
[MBB-BB-530-82-OE] 02 p0202 N84-11315
The sodium sulfur battery system: Investigation of the solid electrolyte beta alumina
[BMFT-FB-T-83-123] 02 p0216 N84-11416
Carbon piezoresistive stress gauge
[DE83-016505] 02 p0224 N84-11470
High alumina cement concrete
[CSIR-BRR-573] 04 p0505 N84-13311
X-ray diffraction line-broadening studies on shock-loaded TiO-2 and Al2O-3
[DE83-016161] 05 p0755 N84-14955
Refined test methods in evaluating brittle material strengths
[AD-A133596] 06 p0861 N84-15610
Method and technique for installing light-weight, fragile, high-temperature fiber insulation
[NASA-CASE-MSC-16934-3] 07 p0966 N84-16262
Densification of shock-treated aluminum nitride and aluminum oxide
[DE84-003251] 07 p0968 N84-16273
Characterization of aluminum oxide layers (pretreatment of plated aluminum sheet metal for adhesive bonding)
[MBB-BB-549/83-O] 07 p0977 N84-16330
Transformation toughened and whisker reinforced ceramics
[DE84-003281] 07 p0979 N84-16346
Influence of cation stoichiometry on the electrical conductivity and high-temperature stability of MgO:Al/sub 2O/sub 3 spinel
[DE84-003305] 07 p0980 N84-16348
Hydration of (BETA)-prime-prime-alumina
[DE83-015696] 07 p1083 N84-17041
Electrode noise in beta aluminas
[AD-A134837] 08 p1152 N84-17497
Studies of supported metal catalysts
[DE84-004210] 09 p1285 N84-18389
Migration of grain boundaries in ceramic materials with particular reference to the sintering process
[DE84-004086] 09 p1289 N84-18414
Thermal properties of coating materials and their effect on the efficiency of coated cutting tools 09 p1292 N84-18440
Durability and failure analyses of a silane treated Alpha-Al2O3/Polyethylene joint in wet environment
[AD-A136089] 09 p1333 N84-18705
Solid electrolyte degradation: Problems and solutions
[DE84-002916] 10 p1457 N84-19514
Role of Al-2O-3 in sintering of submicron yttria-stabilized ZrO-2 powders
[AD-A136798] 10 p1460 N84-19533

Particle scattering studies on foreign ions in superionic conductors
[AD-A137231] 10 p1588 N84-20406
Proceedings of the Conference on High Temperature Solid Oxide Electrolytes. Volume 2: Cation conductors
[BNL-51728-VOL-2] 11 p1742 N84-21368
Proton transport in beta alumina 11 p1743 N84-21371
Ion-ion correlations and phase transitions in nascion type materials 11 p1743 N84-21375
The preparation of sodium beta-alumina by the isostatic pressing and zone sintering of spray dried powders 11 p1744 N84-21377
Synthesis of Co2+ and Ni2+ stabilized beta alumina 11 p1744 N84-21378
AC conductivity of polycrystalline Ca-Alpha-double prime-alumina
[DE84-005529] 11 p1745 N84-21386
High temperature failure mechanisms in ceramic polycrystals
[DE84-006641] 13 p1965 N84-22764
Characterization of humidity sensors and physical properties of h20
[AD-A139024] 13 p1993 N84-22938
The strength of the metal. Aluminum oxide interface 14 p2153 N84-23898
Effects of lunar soil and metal oxides on thermal and radiochemical stability of amino acids 14 p2251 N84-24518
Characterization of aluminum oxide layers
[MBB-BB-549-83-O] 16 p2561 N84-26433
Sputtered coatings for protection of spacecraft polymers
[NASA-TM-83706] 17 p2626 N84-26803
Interaction of sulfuric acid corrosion and mechanical wear of iron
[NASA-TM-83717] 18 p2813 N84-27857
Friction and wear characteristics of molecular compound classes from lubricating base oils. Part 1: Separation and chemical characterization
[PB84-167741] 18 p2820 N84-27904
Structure and mechanical properties in the Al2O3-MgO system 19 p2996 N84-28984
Oxygen diffusion in alpha-Al2O3
[NASA-TM-83622] 19 p2997 N84-28990
Ion implantation, ion beam mixing and annealing studies of metals in Al2O3, SiC and Si3N4
[DE84-012336] 20 p3157 N84-30052
Electrolytic degradation of lithia-stabilized polycrystalline beta-alumina
[DE84-008668] 20 p3311 N84-31027
Transport behavior of multivalent beta aluminas
[AD-A142968] 21 p3370 N84-31382
Nd-3+ Beta prime prime alumina platelet laser
[AD-A142797] 21 p3409 N84-31621
In-situ TEM investigations of graphic-epitaxy and small particles
[NASA-CR-166593] 21 p3503 N84-32201
Chemical stability of beta-aluminum
[DE84-009635] 22 p3560 N84-32545
Behavior of Al2O3 and SiO2 with heating in a Cl2 + CO stream
[NASA-TM-77487] 23 p3713 N84-33533
Properties of principal TL (thermoluminescence) dosimeters
[AD-A143635] 23 p3751 N84-33776
Mechanical response of ceramics to creep loading 23 p3760 N84-33830
Silicon carbide material sintered bodies manufacturing
[NASA-TM-77596] 24 p3878 N84-34574
Hot isostatic pressing of ceramic powder compacts
[AD-A144123] 24 p3888 N84-34621

ALUMINUM SILICATES
NT ANDESITE
The heterogeneous nucleation of ice I 06 p0817 N84-15325
Silicon carbide fiber/mullite composites from rapidly solidified aluminosilicate powder
[AD-A140529] 16 p2469 N84-25825

AMAZON REGION (SOUTH AMERICA)
The water balance and climate
[INPE-2997-PRE/449] 12 p1859 N84-22114
Application of Magsat lithospheric modeling in South America. Part 1: Processing and interpretation of magnetic and gravity anomaly data
[E84-10115] 13 p2005 N84-23008
Satellite elevation magnetic and gravity models of major South American plate tectonic features 15 p2355 N84-25131
Analysis of normalized radar cross section (sigma-O) signature of Amazon rain forest using SEASAT scatterometer data
[E84-10168] 19 p3039 N84-29278
Daily variations of temperature and humidity within and above Amazonian forest
[INPE-3196-PRE/560] 21 p3447 N84-31869
Observations of radiation exchange above and below Amazonian forest
[INPE-3194-PRE/558] 21 p3447 N84-31870
Satellite telemetry
[INPE-2854-PRE/394] 23 p3699 N84-33444

AMBIENCE
Observations of the GEOS-2 equilibrium potential and its relation to the ambient electron energy distribution 08 p1116 N84-17256
Tabulations of ozonesonde data, 1963 - 1980
[NASA-CR-174631] 17 p2733 N84-27375
Quasi-steady flames on an evolving atmosphere
[CAR-8406] 21 p3358 N84-31302

AMBIENT TEMPERATURE
Polymer coated electrodes in ambient temperature molten salts
[AD-A133202] 06 p0801 N84-15220
Global temperature patterns 6000 years ago
[DE84-004209] 10 p1537 N84-20072
Thermal constraints in a helicopter during long duration flights under extreme climatic conditions 11 p1698 N84-21078
NOAA program for data analysis for the first detection of CO/sub 2 induced-climate change
[DE84-006509] 12 p1861 N84-22125
Ambient temperature testing of the G-tunnel heated block
[DE84-009927] 20 p3298 N84-30945
Stress corrosion cracking of stainless steels in sea water at ambient temperature
[BLL-RISLEY-TRANS-4556-(9091.9)] 22 p3550 N84-32476

AMBIGUITY
A study of a class of detection waveforms having nearly ideal range-Doppler ambiguity properties
[AD-A132597] 05 p0669 N84-14401
Ambiguity and uncertainty in probabilistic inference
[AD-A133418] 06 p0905 N84-15872
Preliminary study of (2-D) digital filtering for dealiasing NOSS wind direction data
[NASA-CR-173147] 07 p1036 N84-16721
Regular ternary logic functions. Ternary logic functions suitable for treating ambiguity
[AD-P002366] 14 p2194 N84-24157
Fiber optic magnetometer for the detection of dc magnetic fields without hysteretic ambiguity
[AD-D011085] 22 p3599 N84-32794

AMBIPOLAR DIFFUSION
Ambipolarity and transport with resonant ion diffusion in EBT
[DE84-000333] 04 p0606 N84-14000
Ambipolar diffusion in interstellar clouds: One-dimensional, isothermal collapse 06 p0939 N84-16099
Azimuthal electric fields and tandem ambipolarity
[DE84-010843] 21 p3501 N84-32189

AMBIT
U FIELD THEORY (PHYSICS)

AMERICIUM
NT AMERICIUM 241
Low power radiation hard GaAs RAM
[AD-A139930] 15 p2329 N84-24986

AMERICIUM ISOTOPES
NT AMERICIUM 241

AMERICIUM 241
Aerial radiological survey of Area 11, Nevada Test Site
[DE84-000440] 04 p0554 N84-13650

AMIDES
NT CARBAMIDES
NT POLYIMIDES
NT UREAS
Small solute concentration differences determined by interferometry
[CSIR-CENG-424] 07 p0969 N84-16278
Fabrication of biaxially oriented films via poly(p-phenylene teraphthalamide)/H2SO4 liquid crystalline dopes
[AD-A141755] 19 p3111 N84-29764
Lithium cell reactions
[AD-A142976] 21 p3391 N84-31522
Synthesis and characterization of phosphorus-containing polyamides and copolyamides based on 1methyl]-2,4- and -2,6-diaminobenzenes
[NASA-TM-85877] 22 p3543 N84-32431
New gallium precursors for the formation of high purity gallium arsenide by metal organic vapor phase deposition
[AD-A143361] 22 p3663 N84-33219

AMINES
NT ANILINE
NT CATECHOLAMINE
NT DIAMINES
NT DIMETHYLHYDRAZINES
NT ERGOTAMINE
NT ETHYLENEDIAMINE
NT FLUOROAMINES
NT HISTIDINE
NT NITROAMINES
NT NITROSAMINE
NT SEROTONIN
Synthesis of energetic materials
[AD-A130974] 02 p0200 N84-11299
Synthesis of N-substituted silaneamines: Monomeric precursors of silicon carbide-nitride fibers 06 p0929 N84-16033
Effect of amine surface treatment on the adhesion of a polyurethane to the surface
[AD-A135591] 09 p1288 N84-18406
Preprototype SAWD subsystem
[NASA-CR-171760] 10 p1553 N84-20177
Synthesis of energetic materials
[AD-A141495] 19 p3001 N84-29021
A study of Beta-hydroxyamines and Beta-hydroxysulphides as corrosion inhibitors for metals
[BLL-T6313/BG/WH773/84] 22 p3552 N84-32487
Preparation of certain m-aminophenols and the use thereof for preparation of laser dyes
[DE84-014232] 23 p3755 N84-33603

AMINO ACIDS
NT GLUTAMIC ACID
NT GLUTAMINE
NT HISTIDINE
NT LYSINE
NT PEPTIDES
NT POLYPEPTIDES
NT TRYPTOPHAN
Free amino acids of blood before and after short-term spaceflights 02 p0260 N84-11702
Effect of hypokinesia on amino acid metabolism in rats on diets differing in calcium and phosphorus content 02 p0261 N84-11707
Studies in boron chemistry
[AD-A135364] 09 p1280 N84-18360
Primary patterns of electronically excited molecules in the gas phase 2
[MPIS-9/1983] 13 p2041 N84-23245
Effects of lunar soil and metal oxides on thermal and radiochemical stability of amino acids 14 p2251 N84-24518
Blood plasma amino acid levels in cosmonauts before and after 175-day mission aboard Salyut-6 15 p2375 N84-25250
The effects of nonphysiological oxygen supply on the organism 17 p2745 N84-27428
Blood plasma free amino acids under hypokinetic conditions 20 p3253 N84-30648
Dissociation of amino acid-DNA complexes under influence of long-wave UV light 20 p3258 N84-30680

AMMINES
Surface-enhanced Raman spectroscopy of electrochemically characterized interfaces. Transition-metal isothiocyanate adsorbates at silver adsorbates
[AD-A142407] 20 p3148 N84-29986

AMMONIA
NT LIQUID AMMONIA
On the CO2 laser generated channel conductivity and electron beam ionization of ammonia
[AD-A131591] 02 p0225 N84-11478
Isotope dependence of the breakdown strength of gases
[DE83-017272] 03 p0373 N84-12430
Atmospheric dispersion of ammonia: An ammonia fog model
[DE84-000165] 04 p0580 N84-13689
Evaluation of human blood morphological composition during exercise in sealed chamber with different concentrations of ammonia 07 p1045 N84-16779
Metabolic disturbances in man in an environment with low ammonia level and their correction by graded physical exercise 07 p1045 N84-16780
Equation of state of fluid NH-3 from P-V-T and ultrasound measurements to 12 kbar
[DE83-015913] 08 p1125 N84-17316
High pressure cosmochemistry applied to major planetary interiors: Experimental studies — phase diagram for the ammonia water system
[NASA-CR-173278] 08 p1245 N84-18138
Nitrite reduction in paracoccus halodenitrificans: Evidence for the role of a cd-type cytochrome in ammonia formation
[NASA-TM-85883] 10 p1545 N84-20125
Preliminary performance estimates and value analyses for binary geothermal power plants using ammonia-water mixtures as working fluids
[DE84-006124] 11 p1674 N84-20921
The reaction NH2 + PH3 yields NH3 + PH2: Absolute rate constant measurement and implication for NH3 and PH3 photochemistry in the atmosphere of Jupiter
[NASA-TM-85063] 13 p2072 N84-23430

Mechanical behavior of surface aminated polyaramid fabric/epoxy composites
[DE84-006230] 14 p2120 N84-23706
REB (Relativistic Electron Beam)/channel tracking experiments in low pressure ammonia
[AD-A140209] 16 p2555 N84-26394
Effect of high ammonia content in pressure chamber atmosphere on human adrenocortical system function
20 p3255 N84-30658
Method of making fine-grained triaminotrinitrobenzene
[DE84-012754] 21 p3374 N84-31413
Urban and local source effects on precipitation chemistry
[DE84-011848] 21 p3436 N84-31803
New gallium precursors for the formation of high purity gallium arsenide by metal organic vapor phase deposition
[AD-A143361] 22 p3663 N84-33219

AMMONIUM CHLORIDES
Chloride ion conductivity in a plasticized quaternary ammonium polymer
[AD-A135373] 08 p1124 N84-17305
New gallium precursors for the formation of high purity gallium arsenide by metal organic vapor phase deposition
[AD-A143361] 22 p3663 N84-33219

AMMONIUM COMPOUNDS
NT AMMONIUM CHLORIDES
NT AMMONIUM NITRATES
NT AMMONIUM PERCHLORATES
Combustion thermodynamics of some boron-nitrogen-hydrogen compounds
13 p1951 N84-22684
Measurement of NO, NO/sub 2, and HNO/sub 3 using a tunable diode laser system. Phase 2: Modification to permit automated simultaneous multi-species monitoring and feasibility study of extension to H/sub 2O/sub 2, CH/sub 2O and HONO
[PB84-160076] 14 p2151 N84-23890
Biocidal quaternary ammonium resin
[NASA-CR-171802] 19 p3063 N84-29433

AMMONIUM NITRATES
Characterization of hydroxylammonium nitrate (HAN) at various pressures and temperatures
[AD-A131574] 02 p0203 N84-11324
Lagrange gage studies of nonideal explosives containing NH-4NO-3
[AD-A132760] 05 p0661 N84-14347
Decomposition of four ammonium nitrate propellants
[AD-A136916] 10 p1470 N84-19601
Status of ammonium nitrate in propellants and explosives
13 p1946 N84-22655
Discrete charge diagnostics on Pre-DIRECT COURSE
[AD-A139073] 13 p1990 N84-22919
New developments in cylinder testing
[DE84-002782] 15 p2337 N84-25033

AMMONIUM PERCHLORATES
Thermophysical property determination using transient techniques
[AD-A130707] 01 p0156 N84-11027
Combustion at the interface of an oxidizer-fuel slab system
06 p0800 N84-15215
Expanded ignition effectiveness tests of selected igniter materials with Navy propellants
[AD-A134704] 08 p1125 N84-17312
The two-slab burning problem
[AD-A139618] 15 p2287 N84-24719
Combustion of ammonium perchlorate-polymer sandwiches
[AD-A139673] 15 p2302 N84-24814

AMMUNITION
A 2-dimensional numerical study of detonation propagation between munitions by means of shock initiation
[AD-A133680] 05 p0661 N84-14346
Time resolved measurement and analysis of the response of confined explosives to heat, impact and penetration
[DE84-002781] 07 p0981 N84-16358
Numerical investigation of the aerodynamics and stability of a flared afterbody for axisymmetric projectiles at supersonic speeds
[AD-A136826] 10 p1420 N84-19289

AMORPHOUS MATERIALS
Amorphous materials from precision alloys
[BLL-M-35179-(5828.4)] 01 p0041 N84-10264
Amorphous silicon solar cells
[BMFT-FB-T-83-112] 02 p0243 N84-11590
Photovoltaics advanced research and development bibliography
[DE83-009399] 02 p0302 N84-11983
Effects of compensation on light-induced metastable defects in aSi:H
[DE83-016696] 04 p0558 N84-13680
Pulsed electrodeposition of amorphous and composite alloys
[AD-A132848] 05 p0646 N84-14246
Calculation of structure factor for different cluster models of an amorphous alloy
[BLL-M-35293-(5828.4)] 06 p0803 N84-15234
Moessbauer spectroscopy study of amorphous Fe87B11Au2 ribbon and its crystallization products
[DE83-018091] 06 p0924 N84-16010
TDPAC (Time Differential Perturbed Angular Correlations) study of liquid and amorphous se sub (1-x)Te sub x alloys
[AD-A135588] 09 p1279 N84-18353
Electrical transport in low resistivity amorphous alloys
[AD-A136331] 09 p1282 N84-18372
Atomic transport in metallic glasses
[AD-A136363] 09 p1282 N84-18373
Tunneling through amorphous silicon barriers
[AD-A135866] 09 p1395 N84-19110
Annealing effects in ferromagnetic amorphous alloys
[AD-A136843] 10 p1460 N84-19534
Development of low cost amorphous materials with high saturation flux density
[BMFT-FB-T-83-213] 10 p1463 N84-19558
Mechanical contact induced transformation from the amorphous to the crystalline state in metallic glass
[NASA-TM-83583] 11 p1632 N84-20673
Specifics of processes of deformation and microfracture of amorphous iron-based alloys
12 p1788 N84-21662
Optimization of transparent electrode for solar cell and chemical vapor deposition of amorphous silicon
[DE83-017780] 12 p1843 N84-22014
Bulk formation of metallic glasses and amorphous silicon from the melt
[NASA-CR-171012] 13 p1963 N84-22752
SEM (Scanning-Electron-Microscopy) studies of magnetic domains in amorphous metals
[AD-A140718] 17 p2624 N84-26793
Effect of multifold trapping of carriers on transient photocurrent in amorphous semiconductors
17 p2635 N84-26860
Origins of amorphous interstellar grains
18 p2949 N84-28701
Amorphous metals with high magnetic permeability
[BMFT-FB-T-84-056] 19 p2996 N84-28983
MEA/A-1 experiment 81F01 conducted on STS-7 flight, June 1983. Containerless processing of glass forming melts
[NASA-CR-171048] 19 p2997 N84-28993
Utilization of amorphous metals in electric motors. Power systems technology program
[DE84-009483] 19 p3018 N84-29136
Dynamical properties of disordered systems
[AD-A141597] 19 p3085 N84-29580
Research Reports of the Faculty of Engineering, no. 31
[DEC/1983/31] 21 p3476 N84-32034
Improvement in quality of silicon-based amorphous films 21 p3477 N84-32041
Electronic properties of amorphous silicon dioxide
22 p3683 N84-33351
Structure and properties of amorphous powder material after explosive loading 24 p3870 N84-34526
Anodic electrochemical processing of amorphous alloys 24 p3870 N84-34527
Amorphous metallic materials
24 p3870 N84-34528
Passivation of amorphous alloys with various phosphorus contents 24 p3873 N84-34542
Electrochemical behavior of amorphous titanium-based alloy after various annealing conditions
24 p3875 N84-34555
Study of superfine interactions in amorphous chromium-containing alloys by Moessbauer spectroscopy
24 p3877 N84-34565
Optical properties of amorphous silicon: Some problem areas
[DE84-701201] 24 p3964 N84-35102

AMORPHOUS SEMICONDUCTORS
Structural studies of amorphous Mo-Ge alloys through the semiconductor-metal transition
[DE83-016525] 02 p0299 N84-11964
Amorphous silicon-carbon films
[DE83-018077] 03 p0347 N84-12259
Optical properties and correlation energy of defects in a-Ge:H
[DE83-016697] 03 p0455 N84-12993
Thin-layer solar cells made of amorphous silicon
[MBB-UA-664-82-OE] 05 p0698 N84-14584
Electronic properties of amorphous silicon (a-Si:H)
[BMFT-FB-T-83-154] 05 p0699 N84-14590
Chemical vapor deposition of amorphous semiconductor films
[DE84-004489] 20 p3311 N84-31026
Drift mobilities by time-of-flight methods and time-dependent phototransport in the nanosecond regime in amorphous semiconductors
[DE84-014906] 22 p3668 N84-33241

AMPERAGE
U ELECTRIC CURRENT

AMPHIBIA
NT FROGS
Polarity of the amphibian egg
02 p0263 N84-11731
Cytoplasmic rearrangements associated with amphibian egg symmetrization 09 p1357 N84-18867

AMPHIBIOUS AIRCRAFT
World and United States aviation and space records, as of June 1, 1983 01 p0001 N84-10009

AMPHIBIOUS VEHICLES
NT AMPHIBIOUS AIRCRAFT

AMPLIFICATION
NT POWER GAIN
NT SOUND AMPLIFICATION
NT WAVE AMPLIFICATION
High-repetition-rate amplification of 16 (SIGMA) micron radiation
[DE83-012782] 01 p0087 N84-10569
Evaluation of the Beijing Instrument Factory GDB-44F photomultiplier
[DE84-000849] 03 p0368 N84-12398
Computer-aided synthesis and design of monolithic microwave GaAs MESFET amplifiers
[AD-A132474] 04 p0525 N84-13452
Amplification of sound by gas phase reactions
[AD-A133747] 05 p0649 N84-14266
Limiting energy spread at high laser intensities using phase space displacement
[AD-A133322] 06 p0850 N84-15542
Optimal control and filter gains for the stationary continuous or discrete time LQG problem - A FORTRAN program
[AD-A137667] 11 p1713 N84-21168
Variable structure control of interconnected systems with applications to power systems
[DE84-006587] 12 p1892 N84-22321
High-gain error actuated flight control systems for continuous linear multivariable plants
[AFIT/GAE/EE/82D-1] 15 p2254 N84-24534
Lossless symmetric TEM line IMPATT diode power combiners
[AD-A142599] 20 p3178 N84-30187
Use of Peltier effect for small signal amplification and conversion 20 p3286 N84-30864
Television transmitting antenna of decimeter band system based on tubes 720 and 1020 mm in diameter
21 p3377 N84-31431
Time-dependent oscillations in a CW HF chemical laser unstable resonator
[AD-A142966] 21 p3409 N84-31622
The 64-m antenna automatic subreflector focusing controller 22 p3573 N84-32628
Variable gain oven temperature control circuit
[AD-D011141] 22 p3597 N84-32778
Research on output feedback control of systems with ill-conditioned dynamics
[NASA-CR-173921] 22 p3639 N84-33071
The Gain-Spread-Excitation theorem
[AD-A144447] 24 p3951 N84-35020

AMPLIFICATION FACTOR
U AMPLIFICATION

AMPLIFIER DESIGN
Simulation of a high-gain tapered-wiggler free-electron laser
[DE84-001237] 04 p0540 N84-13557
The 20 GHz spacecraft FET solid state transmitter
[NASA-CR-168240] 08 p1149 N84-17477
Radially resolved simulation of a high-gain free electron laser amplifier
[DE84-003751] 08 p1165 N84-17585
MLS/Airplane system design. RF component design
[NASA-CR-172339] 15 p2259 N84-24567
Dye laser traveling wave amplifier
[NASA-CR-175228] 15 p2338 N84-25036
Low noise amplifier at L band
[INPE-3128-PRE/519] 16 p2483 N84-25925
V-band IMPATT transmitter
[NASA-CR-175249] 18 p2832 N84-27976
Microdensitometer electronics modification
18 p2840 N84-28030
Development of a transimpedance amplifier for cryotemperatures, study --- high sensitivity infrared detectors
[BMFT-FB-W-84-023] 21 p3407 N84-31610
Measurement amplifier
[NASA-CASE-MFS-25868-1] 22 p3581 N84-32680

AMPLIFIERS
NT BEAM PLASMA AMPLIFIERS
NT BROADBAND AMPLIFIERS
NT CROSSED FIELD AMPLIFIERS

NT CURRENT AMPLIFIERS
NT DIFFERENTIAL AMPLIFIERS
NT DISTRIBUTED AMPLIFIERS
NT FLUID AMPLIFIERS
NT INTERMEDIATE FREQUENCY AMPLIFIERS
NT LIGHT AMPLIFIERS
NT LIMITER AMPLIFIERS
NT LINEAR AMPLIFIERS
NT MICROWAVE AMPLIFIERS
NT OPERATIONAL AMPLIFIERS
NT PARAMETRIC AMPLIFIERS
NT PHOTOMULTIPLIER TUBES
NT POWER AMPLIFIERS
NT PREAMPLIFIERS
NT TRANSISTOR AMPLIFIERS
NT TRAVELING WAVE AMPLIFIERS

Pulse power for the RAPIER B amplifier KrF laser system
[DE83-012951] 01 p0088 N84-10573

Development of a HgCdTe photomixer and impedance matched GaAs FET amplifier
[NASA-CR-170608] 02 p0213 N84-11390

Electromagnetic forces related to flash-lamp failures in the Nova/Novette amplifiers
[DE83-016524] 02 p0227 N84-11491

Creation of ultra-high-pressure shocks by the collision of laser-accelerated disks: Experiment and theory
[DE83-017366] 03 p0382 N84-12486

L band low noise amplifier project
[INPE-2794-PRE/356] 04 p0524 N84-13445

Superregenerative amplifier in linear mode as a radar range gate-derivations
[DE84-000978] 04 p0528 N84-13474

Channel electron multiplier and optically coupled amplifier used as an incident-flux monitor
[DE84-001451] 04 p0538 N84-13539

Adaptive feedforward linear wideband HF power bank
[AD-A134744] 08 p1151 N84-17493

Flow visualizations, velocity measurements, and surface convection measurements in simulated 20.8-cm Nova box amplifier cavities
[DE84-004354] 10 p1501 N84-19812

A comparison of radiation damage in liner ICs from cobalt-60 gamma rays and 2.2-MeV electrons
[NASA-CR-173474] 12 p1901 N84-22380

Low noise tuned amplifier
[NASA-CASE-GSC-12567-1] 13 p1985 N84-22887

First infrared radiation detector
14 p2136 N84-23805

Dye laser traveling wave amplifier
[NASA-CR-175228] 15 p2338 N84-25036

Procedure for calculation of stages with operational direct-current amplifiers 17 p2634 N84-26853

Study of VUV generation by coherent resonant frequency mixing in metal vapors
[AD-A140800] 17 p2663 N84-26989

Gyrotron backward-wave oscillator
[AD-A140908] 17 p2664 N84-26993

High power fast pulse lasers
17 p2673 N84-27033

Microdensitometer electronics modification
18 p2840 N84-28030

An improved logarithmic amplifier circuit for PDS microdensitometers 18 p2841 N84-28034

Microwave frequency divider
[AD-D011065] 19 p3017 N84-29124

Reflex ring laser amplifier system
[DE84-010874] 20 p3193 N84-30282

Use of Peltier effect for small signal amplification and conversion 20 p3286 N84-30864

A high-performance hybrid RF isolation amplifier
22 p3572 N84-32623

Magnetic refrigeration development
22 p3573 N84-32626

High-intensity discharge (HID) solid-state ballast program: Engineering development report, phase 2
[DE84-013882] 22 p3588 N84-32726

Temperature controlled gyro
[AD-D011138] 22 p3596 N84-32777

East European report: Science and technology
[JPRS-ESA-84-031] 24 p3960 N84-35071

Microcomputer-aided A/D converters
24 p3960 N84-35074

AMPLITUDE DISTRIBUTION ANALYSIS

Effect of frequency-averaging on estimation of clutter statistics used in setting CFAR detection thresholds
[AD-A131947] 03 p0360 N84-12343

Amplitude distributions of the spider heartpulse in response to gravitational stimuli
09 p1353 N84-18841

AMPLITUDE MODULATION

The performance of an LMS (Least Mean Square) adaptive array with frequency hopped signals
[AD-A136461] 09 p1298 N84-18489

Interface control document for AN/ARC-186 VHF-AM/FM radio
[AD-A136939] 10 p1481 N84-19679

Effect of measurement system phase response on shock spectrum computation
[AD-P002688] 11 p1659 N84-20823

Extraction of rotation information from a simulated fiber optic gyro using amplitude modulation
[AD-A138092] 12 p1767 N84-21528

A CW-CO2 laser range finder using heterodyne detection and on-off amplitude modulation
[PHL-1983-34] 12 p1821 N84-21871

Effect of driving laser fluctuations on optical bistability
14 p2235 N84-24413

Development of automatic measuring system for image pickup tubes
[NHK-LN-295] 15 p2335 N84-25014

Chopped molecular beam multiplexing system
[NASA-CASE-LAR-13174-1] 15 p2404 N84-25431

On the problem of cylindrical array radiation through inhomogeneous dielectric layer
17 p2631 N84-26831

Concerning criteria for evaluation of amplitude-frequency characteristic of two-signal selectivity of radio reception channel 17 p2633 N84-26846

Basic EMC (electromagnetic compatibility) technology advancement for c3 systems. Volume 1: A nonlinear macromodel of the bipolar integrated circuit operational amplifier for electromagnetic interference analysis
[AD-A141369] 19 p3004 N84-29040

Description of a microwave system for the measurement of close to carrier AM and FM noise spectra
[LEOK-TR-1984-04] 20 p3176 N84-30166

Microwave phase modulators using semiconductor diodes (survey) 21 p3380 N84-31448

Modulation of microwave power with electron transfer diodes 22 p3570 N84-32610

Immunologic effects of electromagnetic fields (1981 - 1983)
[PB84-190602] 22 p3631 N84-33008

AMPLITUDE PROBABILITY ANALYSIS

U AMPLITUDE DISTRIBUTION ANALYSIS

AMPLITUDES

NT PULSE AMPLITUDE
NT SCATTERING AMPLITUDE

Fourier-processed images of dynamic lung function from list-mode data
[DE83-013276] 01 p0114 N84-10741

A numerical study of the structure and vertical transport properties of a tropical convective system
02 p0252 N84-11651

Progress on ultrasonic flaw sizing in turbine-engine rotor components: Bore and web geometries
[DE83-018081] 03 p0333 N84-12167

Minimal unitary (covariant) scattering theory
[DE83-014896] 03 p0435 N84-12849

The amplitude density function and high-resolution frequency analysis of time series
[AD-A132466] 04 p0592 N84-13906

Baroclinic waves in the atmosphere of Mars: Observations, linear instability, and finite-amplitude evolution 04 p0621 N84-14094

The local wavenumber spectrum and its applications in turbulence and noise 05 p0672 N84-14417

The effect of superposing ripple loading of maneuver load cycles
[AD-A132653] 06 p0786 N84-15148

A magnetically suspended linearly driven cryogenic refrigerator 06 p0820 N84-15345

The satellite applications of amplitude companded single sideband modulation 06 p0827 N84-15391

Free electron laser with versatile polarization capability
[DE84-002889] 07 p1011 N84-16557

Bioecholocation method for inestigation of parameters of intracranial circulation of blood and fluid in man
07 p1047 N84-16788

Splines and a three-body separable expansion for scattering problems
[CSIR-TWISK-291] 07 p1059 N84-16863

Atmospheric scintillation at 94 GHz
[AD-A134743] 08 p1145 N84-17452

Amplitude Compandored Sideband compared to conventional frequency modulation for VHF mobile radio: Laboratory and field testing results
[PB84-116383] 08 p1148 N84-17474

Guide to transform software for nonlinear normal-mode initialization of the NCAR community forecast model
[PB84-119130] 09 p1350 N84-18820

Interference measurements on amplitude compandored single sideband (ACSB) land mobil radio
[PB84-123645] 10 p1484 N84-19702

Calibration of vibration pickups at high frequencies
[AD-P002691] 11 p1659 N84-20826

Transverse mode dynamics in a free electron laser
[AD-A137738] 11 p1662 N84-20846

Study and design of a cylindrical lens array antenna for wideband electronic scanning
[AD-A138806] 13 p1983 N84-22875

Acoustic rotation control
[NASA-CASE-NPO-15689-1] 13 p2039 N84-23233

Growth rates of parametric instabilities driven by two pumps
[AD-A139463] 14 p2229 N84-24364

Unsteady laminar boundary-layer calculations on oscillating configurations including backflow. Part 2: Airfoil in high-amplitude pitching motion. Dynamic stall
[NASA-TM-84319-PT-2] 15 p2254 N84-24537

The influence of a moving suspension on the behaviour of modelled helicopter underslung loads
[BU-288] 15 p2260 N84-24573

Nonlinear vibrations of a rubber support system constrained by a fixed surface 15 p2313 N84-24878

Measurement of the flow field behind harmonically oscillating gust generators in the model subsonic wind tunnel (MUK)
[ESA-TT-806] 16 p2487 N84-25953

Effect of asymmetric Ekman dissipation on finite-amplitude baroclinic disturbance
16 p2527 N84-26223

Shot waves in frozen ground
17 p2703 N84-27218

Accommodative amplitude and speed measuring instrument
[AD-D011032] 19 p3071 N84-29484

Hoop/column antenna: RF verification model. Volume 1: Test results
[NASA-CR-172412] 21 p3382 N84-31463

The use of overlapped subarray techniques in simultaneous receive beam linear arrays
[AD-P003501] 21 p3383 N84-31469

Relation between pressure pulse generated in optoacoustic receiver and intensity of stimulating laser pulse 21 p3478 N84-32047

Simulation of an electronic countermeasure technique
[AD-D011143] 22 p3572 N84-32619

Fatigue behavior of welded joints subjected to variable amplitude stresses
[PB84-207620] 22 p3612 N84-32868

Onset of oscillations in symmetric convective states in a superfluid He-3-He-4 mixture
[DE84-009984] 22 p3666 N84-33244

Reducing grating lobes due to subarray amplitude tapering
[AD-A143844] 23 p3730 N84-33844

Radio frequency distribution assembly, operations and maintenance manual
[AD-A143864] 23 p3731 N84-33849

Nonlinear interaction of two noncollinear sound waves in a rectangular waveguide
[AD-A144440] 24 p3895 N84-34666

AMPOULES

Complete sample analysis by gas chromatography
[BLL-T6213/BG/LRS/LRST671/83]
06 p0800 N84-15212

ANAEROBES

The mechanism of anaerobic (microbial) corrosion
[AD-A131223] 01 p0044 N84-10283

Biorefining of selected industrial wastes to liquid fuels and organic chemicals
[DE83-013910] 01 p0054 N84-10346

ANALGESIA

Voltammetric studies of Zomepirac sodium and its determination in tablets by differential-pulse polarography
[AD-A136982] 10 p1455 N84-19499

The interactive effects of morphine and ionizing radiation on the latency of tail-withdrawal from warm water in the rat
[AD-P003251] 18 p2904 N84-28418

ANALOG CIRCUITS

Applications of analog Change Coupled Devices (CCD's)
[BMFT-FB-T-83-141] 03 p0456 N84-13002

Tuned analog network
[NASA-CASE-GSC-12650-1] 05 p0673 N84-14421

Analog fault diagnosis of large-scale electronic circuits
[AD-A133491] 06 p0830 N84-15400

Acquisition systems for heat transfer measurement
[DE84-003779] 08 p1160 N84-17551

INTAC: Digital and analog circuit test language
[INPE-2764-PRE/338] 08 p1211 N84-17898

INTAC: Digital and analog circuit test stations
[INPE-2741-PRE/320] 11 p1656 N84-20803

Experimental investigation of switched-capacitor circuits and systems
[AD-A138034] 12 p1811 N84-21808

Signal processing circuit development
[AD-A138648] 13 p1982 N84-22870

Installation and evaluation of SPLICE
[AD-A140170] 16 p2484 N84-25933

Microdensitometer electronics modification
18 p2840 N84-28030

ANALOG COMPUTERS
NT UNIVAC 1100 SERIES COMPUTERS
Optical analog & hybrid computer solution of partial differential equations
[AD-A137028] 10 p1571 N84-20291
Conversational eigenanalysis program for solving differential equations
[DE84-007560] 15 p2399 N84-25397
Development of dynamic simulation of TF34-GE-100 turbofan engine with post-stall capability
[NASA-TM-83660] 16 p2450 N84-25712
Europe approaches chaos with electrical circuits
[AD-A142085] 20 p3177 N84-30179
Flight testing a digital flight control system: Issues and results 24 p3848 N84-34403

ANALOG DATA
Fast multichannel analog storage system
[DE83-012711] 01 p0119 N84-10773
A comparison of arithmetic units in VLSI signal processing systems 09 p1403 N84-19165
Linearization of an analog fiber-optic system using the quasi-feedforward technique
[AD-A137529] 11 p1731 N84-21294
Technique for modal data acquisition in remote locations using hand portable instrumentation
[DE84-005755] 12 p1819 N84-21854
Analog fiber optics: Pragmatic considerations beyond the textbook
[AD-A137528] 12 p1908 N84-22430
Description of the ACCESS data acquisition system
[DE84-005758] 12 p1919 N84-22506
Solid state research
[AD-A140027] 15 p2413 N84-25488
Microprocessor devices for analog signal processing
18 p2824 N84-27928
Utilization of AC and DC converters in the design and use of a system of acquisition retrieval of analogic data
18 p2944 N84-28669
Analog single channel communication transmitter and receiver tests
[AD-A141480] 19 p3005 N84-29044
A SAR system test unit for verification of user requirements
[BMFT-FB-W-84-002] 19 p3009 N84-29074
Frequency domain non-linear signal processing apparatus and method for discriminationd against non-Gaussian interference
[AD-D011068] 19 p3017 N84-29126
A multi-GHz multi-channel photonic analog data processing system
[DE84-012281] 21 p3499 N84-32175
Microprocessors for analog signal processing
24 p3941 N84-34947

ANALOG SIMULATION
Data and results of a laboratory investigation of microprocessor upset caused by simulated lightning-induced analog transients
[NASA-TM-85821] 17 p2733 N84-27376
Simulation of the reaction of optical systems in the manufacturing process
[BMFT-FB-T-84-128] 23 p3728 N84-33622

ANALOG TO DIGITAL CONVERTERS
A high-performance analog-to-digital conversion subsystem suitable for the study of evoked potentials, with design considerations for the eclipse $140 (trademark) computer
[AD-A130353] 01 p0071 N84-10461
GSE for balloon-borne I.M.S.: Decommutator and D/A units
[AD-A131845] 03 p0377 N84-12452
The DJS-054II microcomputer
[AD-A132552] 04 p0577 N84-13807
Overview of digital-image processing
[DE84-000156] 04 p0583 N84-13848
ECM (Electronic Counter Measure) signal discrimination and identification techniques
[AD-A133427] 06 p0824 N84-15372
The development of a digital processing system for accurate range determinations — for Teleoperator Maneuvering Systems 06 p0930 N84-16046
Measurement errors in TDC's using digital techniques
[DE84-002133] 07 p1008 N84-16537
Transformation procedures for interactive digitizing apparatus 07 p1018 N84-16606
New developments in digitizing and processing map data on large scales by Ordnance Survey (OS), Southampton, England 07 p1018 N84-16607
Automation in digitizing large scale maps
07 p1019 N84-16608
Digitizing of block and parish boundary maps: Aids, experiences and problems 07 p1019 N84-16609
Software clock-divider
[DE84-001266] 07 p1053 N84-16817
Solid state research work of the Solid State Division at Lincoln Laboratory
[AD-A134594] 07 p1081 N84-17028
Simply instrumentable and optimal digitization of analog information sources
[AD-A135124] 08 p1150 N84-17484
Real-time implementation of a speech digitization algorithm combining time-domain harmonic scaling and adaptive residual coding, volume 1
[AD-A135232] 08 p1150 N84-17485
Real-time implementation of a speech digitization algorithm combining time-domain harmonic scaling and adaptive residual coding, volume 2
[AD-A135233] 08 p1150 N84-17486
Acquisition systems for heat transfer measurement
[DE84-003779] 08 p1160 N84-17551
Automatic evaluation of interferograms
[NASA-TM-76953] 11 p1731 N84-21291
The 3SPACE digitizer: A new input device for solid geometry modeling 12 p1872 N84-22200
Improvement in analog error autocorrection circuit
17 p2634 N84-26855
Signal processing at the Poker Flat MST radar
17 p2695 N84-27169
Heads up display
[NASA-CASE-LAR-12630-1] 18 p2795 N84-27733
Automated inspection of analog-digital standard replacement components 18 p2824 N84-27927
Improvements to the Photometric response and positional accuracy of the Yale PDS 2020G microdensitometer 18 p2840 N84-28033
Robotron digitalization unit 18 p2919 N84-28511
Utilization of AC and DC converters in the design and use of a system of acquisition retrieval of analogic data
18 p2944 N84-28669
Synthesis of arbitrary broadband signals for a parametric array
[AD-D011021] 19 p3100 N84-29691
Reports on cartography and geodesy. Series 1: Original reports, number 92
[ISSN-0469-4236] 20 p3225 N84-30495
Application of FASTRAK by Skandinavisk Autodigitaliserings AB (SADAB) cartographic service
20 p3226 N84-30498
Adaptive analog-to-digital converter
22 p3567 N84-32591
Estimation of sensitivity threshold in integrating analog-to-digital converters with averaging of readings
22 p3567 N84-32593
Selections on CSSR electronics, computer technology: MHB8804 integrated circuit 23 p3813 N84-34179
East European report: Science and technology
[JPRS-ESA-84-031] 24 p3960 N84-35071
Monolithic 8-bit converter 24 p3960 N84-35073
Microcomputer-aided A/D converters
24 p3960 N84-35074

ANALOGIES
Metaphor and common-sense reasoning
[AD-A131423] 02 p0268 N84-11756
The copycat project: An experiment in nondeterminism and creative analogies
[AD-A142744] 21 p3470 N84-31990

ANALOGS
Water immersion and its computer simulation as analogs of weightlessness
[NASA-CR-171746] 06 p1200 N84-17821
Studies in boron chemistry
[AD-A135364] 09 p1280 N84-18360
SeaMARC 2 side-scan images of submarine volcanoes: Potential analogues for Venus 11 p1754 N84-21452
Venus analogues on the Earth's ocean floor(?): Volcanic terrains seen by SeaMARC 2 side scan sonar
11 p1755 N84-21456
Curvilinear ground on Mars: The search for terrestrial analogs 13 p2085 N84-23508
Analysis of modern analog and digital communication channels from a manager's perspective
[AD-A143161] 21 p3387 N84-31494

ANALYSIS
U ANALYZING

ANALYSIS (MATHEMATICS)
NT ABEL FUNCTION
NT ANALYTIC FUNCTIONS
NT APPROXIMATION
NT ASYMPTOTES
NT ASYMPTOTIC SERIES
NT BANACH SPACE
NT BESSEL FUNCTIONS
NT BETHE-SALPETER EQUATION
NT BIHARMONIC EQUATIONS
NT BINARY INTEGRATION
NT BORN APPROXIMATION
NT BORN-OPPENHEIMER APPROXIMATION
NT BURGER EQUATION
NT CALCULUS
NT CALCULUS OF VARIATIONS
NT CAUCHY-RIEMANN EQUATIONS
NT CHEBYSHEV APPROXIMATION
NT COLLINEARITY
NT COMBINATORIAL ANALYSIS
NT COMPLEX VARIABLES
NT COMPUTATIONAL FLUID DYNAMICS
NT CONFORMAL MAPPING
NT CONJUGATE GRADIENT METHOD
NT CONJUGATES
NT CONTINUITY (MATHEMATICS)
NT CONVOLUTION INTEGRALS
NT COPLANARITY
NT COSINE SERIES
NT CUBIC EQUATIONS
NT DIFFERENCE EQUATIONS
NT DIFFERENTIAL CALCULUS
NT DIFFERENTIAL EQUATIONS
NT EDDINGTON APPROXIMATION
NT EINSTEIN EQUATIONS
NT ELLIPTIC DIFFERENTIAL EQUATIONS
NT ELLIPTIC FUNCTIONS
NT ENTIRE FUNCTIONS
NT ERROR ANALYSIS
NT EULER-CAUCHY EQUATIONS
NT EXISTENCE THEOREMS
NT EXPONENTIAL FUNCTIONS
NT EXTREMUM VALUES
NT FINITE DIFFERENCE THEORY
NT FINITE ELEMENT METHOD
NT FOKKER-PLANCK EQUATION
NT FOURIER ANALYSIS
NT FOURIER SERIES
NT FOURIER TRANSFORMATION
NT FREDHOLM EQUATIONS
NT FUNCTION SPACE
NT FUNCTIONAL ANALYSIS
NT FUNCTIONAL INTEGRATION
NT GAMMA FUNCTION
NT GAUSS EQUATION
NT GREEN'S FUNCTIONS
NT HALF PLANES
NT HALF SPACES
NT HARMONIC ANALYSIS
NT HARMONIC FUNCTIONS
NT HARTREE APPROXIMATION
NT HELMHOLTZ VORTICITY EQUATION
NT HILBERT SPACE
NT HILBERT TRANSFORMATION
NT HYPERBOLIC DIFFERENTIAL EQUATIONS
NT HYPERBOLIC FUNCTIONS
NT HYPERPLANES
NT INTEGRAL EQUATIONS
NT INTEGRAL TRANSFORMATIONS
NT INTERPOLATION
NT ITERATION
NT J INTEGRAL
NT JACOBI MATRIX METHOD
NT KERNEL FUNCTIONS
NT LAGUERRE FUNCTIONS
NT LAPLACE TRANSFORMATION
NT LEAST SQUARES METHOD
NT LEBESGUE THEOREM
NT LEGENDRE FUNCTIONS
NT LIAPUNOV FUNCTIONS
NT LIMITS (MATHEMATICS)
NT LINEAR EQUATIONS
NT LINEAR EVOLUTION EQUATIONS
NT LIOUVILLE EQUATIONS
NT LIPSCHITZ CONDITION
NT LOGARITHMS
NT MAXIMA
NT MEASURE AND INTEGRATION
NT MEROMORPHIC FUNCTIONS
NT MINIMA
NT MONTE CARLO METHOD
NT NEUMANN PROBLEM
NT NEWTON-RAPHSON METHOD
NT NOMOGRAPHS
NT NONLINEAR EQUATIONS
NT NONLINEAR EVOLUTION EQUATIONS
NT NUMERICAL ANALYSIS
NT NUMERICAL DIFFERENTIATION
NT NUMERICAL INTEGRATION
NT ORTHOGONAL FUNCTIONS
NT PADE APPROXIMATION
NT PARABOLIC DIFFERENTIAL EQUATIONS
NT PARTIAL DIFFERENTIAL EQUATIONS
NT PARTICLE IN CELL TECHNIQUE
NT PARTITIONS (MATHEMATICS)
NT PERIODIC FUNCTIONS
NT PERMUTATIONS
NT PHASE-SPACE INTEGRAL
NT POISSON EQUATION
NT POWER SERIES
NT QUADRATIC EQUATIONS
NT RATIONAL FUNCTIONS

NT RAYLEIGH-RITZ METHOD
NT REAL VARIABLES
NT RELAXATION METHOD (MATHEMATICS)
NT RUNGE-KUTTA METHOD
NT SCHWARZ-CHRISTOFFEL TRANSFORMATION
NT SERIES (MATHEMATICS)
NT SINGULARITY (MATHEMATICS)
NT SOBOLEV SPACE
NT SOMMERFELD APPROXIMATION
NT SPHERICAL HARMONICS
NT STURM-LIOUVILLE THEORY
NT TANGENTS
NT TAYLOR SERIES
NT VECTOR ANALYSIS
NT VOLTERRA EQUATIONS
NT VORTICITY
NT WEIGHTING FUNCTIONS
Neurocognitive pattern analysis
[AD-A131302] 01 p0114 N84-10740
Comments on Bing's paper On a Posteriori Probability, and reply to Professor L. Lorenz
[CSIR-TRANS-1658] 01 p0128 N84-10838
Three-dimensional analysis of composite plates with material nonlinearity
[AD-A131884] 03 p0347 N84-12258
Applied mathematical sciences research at Argonne
[DE83-3014268] 03 p0426 N84-12788
Status of research at the Institute for Computer Applications in Science and Engineering (ICASE)
[NASA-CR-172267] 06 p0895 N84-15811
Analytical and numerical solution for a solidifying liquid alloy slab 06 p0927 N84-16025
Sound velocity anisotropy in cubic crystals
[NASA-CR-175344] 07 p1079 N84-17016
Bifurcation and stability theory with application to problems of combustion and flame propagation
[AD-A135383] 08 p1124 N84-17306
The computation of Galois groups 08 p1225 N84-18000
Efficient finite element methods for transient nonlinear analysis of shells
[AD-A136044] 09 p1333 N84-18701
Evolution of nonlinear wave groups on water of slowly-varying depth
[AD-A137420] 10 p1491 N84-19751
The 100 GHz, 1 MW, CW gyrotron study program
[DE84-005751] 12 p1813 N84-21819
Multi-parameter universal route to chaos in a Fabry-Perot resonator 14 p2233 N84-24399
Bistable operation of two semiconductor lasers in an external cavity: Rate-equation analysis 14 p2233 N84-24400
Optically-induced bistability in a nematic liquid crystal 14 p2234 N84-24401
Resonant Frustrated Total Reflection (FTR) approach to optical bistability in semiconductors 14 p2234 N84-24405
Verification of numerical algorithms 15 p2387 N84-25321
Unified analytical kinematic analysis and synthesis of spatial mechanisms 16 p2501 N84-26049
Guide to available mathematical software
[PB84-171305] 16 p2545 N84-26337
Noise immunity of optical lines with imprecise levels of signal and noise 17 p2634 N84-26852
Scattering properties of partly screened dielectric sphere
[REPT-218] 17 p2662 N84-26983
Digital phase meter 18 p2826 N84-27941
Theoretical calculations of pressure vessel failure frequencies for Sizewell B transients
[AERE-R-11196] 18 p2854 N84-28125
Spatiotemporal structure of quanta of industrial work and its physiological basis 18 p2897 N84-28379
Edge waves by boundary collocation
[AD-A137959] 18 p2924 N84-28545
A numerical simulation of three-dimensional flow in an adaptive wall wind tunnel
[NASA-TP-2351] 19 p2958 N84-28750
On dynamical formulation of a tethered satellite system with mass transport
[AD-A142312] 19 p2980 N84-28888
Sensitivity based segmentation and identification in automatic speech recognition
[AD-A142255] 19 p3008 N84-29068
Carbon dioxide emissions from fossil fuels: A procedure for estimation and results for 1950 - 1981
[DOE/NBB-0036] 19 p3052 N84-29365
Present-day problems in identification of dynamic systems: A review
[ISSN-0208-5658] 19 p3082 N84-29555
Research in the areas of stochastic control under partial observations, nonlinear filtering, large deviations for nearly deterministic processes, and transition and invariant densities for nearly deterministic diffusions
[AD-A142191] 19 p3115 N84-29791
A note about Lie series and some applications 19 p3121 N84-29836
Research in nonlinear motion
[AD-A143000] 21 p3473 N84-32013
Least-squares smoothing of direct-exchange in zonal analysis
[DE84-002612] 22 p3595 N84-32770
Summaries of the FY 1983 applied mathematical sciences research program
[DOE/ER-0157/1] 24 p3950 N84-35010
Analytic solution of the Spencer-Lewis angular-spatial moments equations
[AD-A144609] 24 p3962 N84-35089

ANALYSIS OF VARIANCE
The heteroscedastic method: Theory and applications
[AD-A129525] 01 p0137 N84-10695
Repeated-measures analysis of image data 03 p0393 N84-12567
An alternative to the Monte Carlo estimation of network reliability
[AD-A131849] 03 p0427 N84-12800
On the performance of two-stage group screening experiments
[AD-A131970] 03 p0428 N84-12807
Microcomputer scientific software series 3: General linear model-analysis of variance
[PB83-263640] 05 p0731 N84-14799
Some new results on Grubbs' estimators
[AD-A133922] 05 p0739 N84-14852
An investigation of methods for reducing sampling error in certain IRT (Item Response Theory) procedures
[AD-A133848] 05 p0739 N84-14853
Hypothesis identification in the case of the missing cell
[AD-A134553] 07 p1063 N84-16895
Testing hypotheses in linear models with weighted rank statistics
[AD-A135759] 09 p1383 N84-19032
Towards a comprehensive approach to the analysis of categorical data
[AD-A135967] 09 p1383 N84-19034
Comprehensive analyses of variances of meteorological fields over Southern Bavaria
[DFVLR-FB-83-31] 10 p1541 N84-20097
Variance reduction techniques with applications
[AD-A138074] 12 p1894 N84-22334
An analysis of the acquisition strategy decision process along three dimensions of the acquisition improvement program
[AD-P002758] 13 p2051 N84-23305
Residuals in nonlinear regression
[AD-A139309] 14 p2218 N84-24311
New approaches to robust confidence intervals for location: A simulation study
[AD-A142248] 19 p3094 N84-29648
Variance-stable R-estimators
[AD-A143172] 21 p3475 N84-32024

ANALYTIC FUNCTIONS
NT ENTIRE FUNCTIONS
On complex rational approximation by interpolation at preselected nodes
[AD-A130526] 01 p0131 N84-10855
The specific solutions of a uniform algebraic differential equation of the second order
[ISSN-0066-1953] 04 p0575 N84-13783
On some extensions of a theorem of Hardy and Littlewood 04 p0575 N84-13784
On the range of real coefficients of functions with bounded boundary rotation 04 p0575 N84-13789
Functions of uniformly bounded characteristic 04 p0577 N84-13802
Annals of the Fourier Institute, volume 33, no. 4
[ISSN-0373-0956] 13 p2031 N84-23172
On a fundamental inequality and the singularities of an analytic function defined by the LC-Dirichletian element 13 p2032 N84-23177
Exponential calculus of microdifferential operators of infinite order, part 1 13 p2033 N84-23181
Annals of the Fourier Institute, volume 33, no. 3
[ISSN-0373-0956] 14 p2210 N84-24264
Extension in Hardy classes of holomorphic functions and Carleson measures estimates for the bar delta equation 14 p2210 N84-24268
Unfoldings of foliations with multiform first integrals 14 p2210 N84-24269
A result on extension of C.R. functions 14 p2210 N84-24270
Analytic wave front and microlocal decomposition distributions 14 p2211 N84-24272
Classification of Nash manifolds 14 p2211 N84-24274
An infinite L: Estimate for the delta bar equation in the ball in C sup N
[MATH-MATH-1983-29] 17 p2759 N84-27521
Solution formulas for the delta delta bar equation and weighted Nevanlinna classes in the polydisk
[CTH-MATH-1984-07] 19 p3091 N84-29625
Annals of the Fourier Institute, volume 34, no. 1
[ISSN-0373-0956] 22 p3633 N84-33025
Characterizations of zeros in the functions of some Nevanlinna type classes in the bidisk 22 p3634 N84-33029
Wave fronts to infinity of real analytic functions 22 p3634 N84-33031
The growth of plurisubharmonic functions in infinite domain 22 p3634 N84-33033
Annals of the Fourier Institute, volume 34, no. 2
[ISSN-0373-0956] 22 p3635 N84-33036
An application of fine potential theory to prove a Phragmen Lindeloef theorem 22 p3635 N84-33043
Analytic automorphisms of a bounded Reinhardt domain in a complex Banach space with base 22 p3636 N84-33044
The exponential accuracy of Fourier and Tchebyshev differencing methods
[NASA-CR-172435] 22 p3645 N84-33108

ANALYTIC GEOMETRY
NT CONICS
NT ELLIPSES
NT HYPERBOLAS
NT LOCI
NT MERCATOR PROJECTION
NT OBLATE SPHEROIDS
NT PARABOLAS
NT PROLATE SPHEROIDS
NT QUADRANTS
NT S CURVES
NT SPHEROIDS
NT TANGENTS
NT TORUSES
NT TRIGONOMETRY
Regular n-gons and Fuchsian groups 04 p0576 N84-13798
Diophantine equations 08 p1225 N84-18004
Some links between turtle geometry and analytic geometry
[AD-A138319] 12 p1882 N84-22269

ANALYTICAL CHEMISTRY
A study of the CH2NO2 radical using a multiconfigurational self-consistent field approach
[AD-A133815] 05 p0648 N84-14262
Activities of the National Chemical Research Laboratory
[CSIR-SR-CHEM-261] 06 p0796 N84-15188
Analytical chemistry 06 p0796 N84-15189
A new method for obtaining individual component spectra from those of complex mixtures
[AD-A139262] 14 p2122 N84-23719
Chemistry of processible acetylene-terminated imides
[AD-A139417] 14 p2122 N84-23720
A review of classical silicate-rock analysis and recommended modifications of classical methods of analysis
[USGS-CIRC-864] 14 p2175 N84-24027
Supercritical fluid methods in analytical chemistry
[DE84-008289] 15 p2288 N84-24728
United States Air Force Academy, Department of Chemistry research: AY 1982-83
[AD-A141015] 18 p2808 N84-27828
Activities report of the Department of Chemistry
[OEFZS-4273] 18 p2931 N84-28588
Solving corrosion problems with surface analysis
[DE84-008652] 20 p3154 N84-30025
USSR report: Chemistry
[JPRS-UCH-84-007] 24 p3867 N84-34508

ANALYZERS
NT ENGINE ANALYZERS
NT SIGNAL ANALYZERS
Experimental vortex analyzer
[NLR-MP-82006-U] 02 p0175 N84-11151
Efficiency of high-frequency ventilation as determined by nitrogen washouts: A model study
[AD-A131331] 02 p0265 N84-11745
The determination of research octane number of gasoline fuels by octane analyzer 04 p0509 N84-13335
In-line, concurrent electromagnetic beam analyzer
[AD-D011040] 19 p3102 N84-29704
Optical distortion analyzer system
[AD-D011127] 22 p3656 N84-33176

ANALYZING
Computer analysis of phased array far-field patterns for non-symmetrical feed networks
[AD-P003502] 21 p3383 N84-31470

ANATOMY
NT ABDOMEN
NT ADRENAL GLAND
NT AORTA
NT ARM (ANATOMY)
NT ARTERIES

NT BLADDER
NT BLOOD VESSELS
NT BONES
NT BRAIN
NT BRONCHI
NT CAPILLARIES (ANATOMY)
NT CARDIAC VENTRICLES
NT CARDIOVASCULAR SYSTEM
NT CARTILAGE
NT CEREBELLUM
NT CEREBRAL CORTEX
NT CEREBRUM
NT CIRCULATORY SYSTEM
NT COCHLEA
NT COLLAGENS
NT CONJUNCTIVA
NT EAR
NT ERYTHROCYTES
NT EYE (ANATOMY)
NT FEMUR
NT FINGERS
NT FOVEA
NT GASTROINTESTINAL SYSTEM
NT GRAVIRECEPTORS
NT HAND (ANATOMY)
NT HEAD (ANATOMY)
NT HEMATOPOIESIS
NT HEMATOPOIETIC SYSTEM
NT HUMAN BODY
NT KIDNEYS
NT LEG (ANATOMY)
NT LEUKOCYTES
NT LIMBS (ANATOMY)
NT LIVER
NT LUNGS
NT LYMPHOCYTES
NT MUSCULOSKELETAL SYSTEM
NT NECK (ANATOMY)
NT OCULOMOTOR NERVES
NT ORGANS
NT PARATHYROID GLAND
NT PHOTORECEPTORS
NT PITUITARY GLAND
NT PUPILS
NT RESPIRATORY SYSTEM
NT RETINA
NT SCAPULA
NT SEMICIRCULAR CANALS
NT SENSE ORGANS
NT STOMACH
NT SYSTOLE
NT TEETH
NT THERMORECEPTORS
NT THYROID GLAND
NT ULNA
NT VASCULAR SYSTEM
NT VEINS
NT VERTEBRAL COLUMN
NT VESTIBULES
NT WRIST

Morphological study of primate muscle fibers and microcirculation during head-down hypokinesia
15 p2377 N84-25262

A mechanical model of the human body and its application
17 p2744 N84-27421

ANCHORS (FASTENERS)

Strength of anchor bolts in masonry
[PB84-111160] 09 p1297 N84-18479

ANDES MOUNTAINS (SOUTH AMERICA)

Tectonic deformation of the Andes and the configuration of the subducted slab in central Peru: Results from a micro-seismic experiment
[NASA-CR-175445] 11 p1681 N84-20972

Radar-visible wind streaks in the Altiplano of Bolivia
13 p2088 N84-23527

Correlation of tectonic provinces of South America and the Caribbean region with MAGSAT anomalies
15 p2355 N84-25130

Satellite elevation magnetic and gravity models of major South American plate tectonic features
15 p2355 N84-25131

Andean tectonics: Implications for Satellite Geodesy
[NASA-TM-86160] 24 p3919 N84-34809

ANDESITE

Geochemistry, age and strontium composition of late tertiary and quaternary basalts and andesites in western Nevada and their relation to geothermal potential
[DE84-012404] 21 p3444 N84-31852

ANDROMEDA CONSTELLATION

A new outburst of Z Andromedae
24 p3979 N84-35209

ANECHOIC CHAMBERS

Scattering experiments at the Ipswich electromagnetic measurements facility: Calibration with perfectly conducting spheres
[AD-A138028] 12 p1806 N84-21772

A reverberation room round robin on the determination of absorption coefficients
[NRC/CNR-TT-2079] 12 p1898 N84-22364

Analysis of acoustic chamber pressure oscillations in shuttle high-pressure SRB's
13 p1946 N84-22651

Causes and prevention of systematic deviations from true values of absorption coefficients measured in reverberation rooms
[NRC/CNR-TT-2060] 15 p2403 N84-25423

The Technical University of Denmark (TUD)-ESA spherical near field antenna test facility, Lyngby, Denmark
[ESA-BR-19] 20 p3132 N84-29890

Experimental investigation of shock-cell noise reduction for single-stream nozzles in simulated flight, comprehensive data report. Volume 3: Shadowgraph photos and facility description
[NASA-CR-168234-VOL-3] 22 p3652 N84-33150

ANELASTICITY

Analysis of anelastic relaxations controlled by a spectrum of relaxation times
[DE84-006014] 12 p1915 N84-22479

ANEMOMETERS

NT HOT-FILM ANEMOMETERS
NT HOT-WIRE ANEMOMETERS
NT LASER ANEMOMETERS

Rotating-boom facility for evaluation of wind characteristics approaching a wind-turbine blade
[DE83-013117] 01 p0017 N84-10107

Laser velocimeter developments for surveying thin boundary layers in a Mach 6 high Reynolds number flow
[AD-A130387] 01 p0083 N84-10541

Scanning laser Doppler anemometer and its application in turbulent separated flow
[AD-A130823] 01 p0084 N84-10548

Height extrapolation of wind data
[DE83-012974] 01 p0109 N84-10706

Study of the contained air flow in a radial tire: Experimental
[DE84-000840] 04 p0545 N84-13591

Design, construction, and use of a high-resolution, two-component LDA
06 p0633 N84-15419

Effect of solid particles on the turbulent flow of a round gaseous jet: A mathematical and experimental study
[DE84-005830] 11 p1653 N84-20794

Particle sizing in a fuel rich airbreathing engine combustor
13 p1943 N84-22634

Simulation of winds as seen by a rotating vertical axis wind turbine blade
[DE84-009033] 14 p2180 N84-24056

Radionuclide counting technique for measuring wind velocity and direction
[NASA-CASE-LAR-12971-1] 18 p2883 N84-28292

Wind energy assessment studies in the Goodnoe Hills and Cape Blanco areas
[DE84-010067] 19 p3059 N84-29409

On-site analysis to assess the feasibility of wind power
[DE84-009782] 20 p3247 N84-30606

Measurement of turbulent wind velocities using a rotating boom apparatus
[DE84-012417] 21 p3448 N84-31875

Basic principles and recent observations of rotationally sampled wind
[DE84-013267] 22 p3626 N84-32976

ANEMOMETRY

U VELOCITY MEASUREMENT

ANESTHETICS

NT CHLOROFORM

ANGIOGRAPHY

Exploration of arterial function using Doppler flow determination. Application to aeronautical and space medicine
11 p1700 N84-21091

Computer-aided analysis of atherosclerosis
15 p2431 N84-25598

ANGLE OF ATTACK

NT ZERO ANGLE OF ATTACK

A dynamic model for aircraft poststall departure
01 p0012 N84-10077

Low aspect ratio wing/body vortex interaction at large angles of pitch and yaw
02 p0173 N84-11140

On the generation of vortical flow at hypersonic speeds over elliptical cones
03 p0323 N84-12114

Computational vortex flow aerodynamics
03 p0324 N84-12117

Some aerodynamic characteristics of a projectile shape with a nonaxisymmetric boattail at Mach numbers of 0.91 and 3.02
[AD-A133755] 05 p0627 N84-14125

A preliminary investigation of the drag and ventilation characteristics of livestock haulers
[NASA-CR-170406] 05 p0761 N84-14990

Interacting boundary-layer solutions for laminar separated flow past airfoils
[NASA-CR-172267] 07 p0946 N84-16140

Real-time pilot guidance system for improved flight test maneuvers
[NASA-TM-84922] 07 p0952 N84-16176

Control definition study for advanced vehicles
[NASA-CR-3738] 07 p0958 N84-16212

Prediction of vortex shedding from circular and noncircular bodies in supersonic flow
[NASA-CR-3754] 08 p1096 N84-17129

A study of prediction methods for the high angle-of-attack aerodynamics of straight wings and fighter aircraft
[NASA-CR-3764] 08 p1097 N84-17131

Bifurcation analysis of aircraft pitching motions near the stability boundary
[NASA-TM-85881] 08 p1097 N84-17137

Wind-tunnel free-flight investigation of a model of a forward-swept-wing fighter configuration
[NASA-TP-2230] 08 p1105 N84-17184

Computer programs for helicopter high speed flight analysis
[AD-A136376] 09 p1255 N84-18191

Continued experimental investigation of dynamic stall
[AD-A136920] 10 p1421 N84-19294

The effect of trailing vortices on the production of lift on an airfoil undergoing a constant rate of change of angle of attack
[AD-A136921] 10 p1421 N84-19295

Experimental investigation of tangential blowing applied to a subsonic V/STOL inlet
[NASA-TP-2297] 11 p1602 N84-20493

Evaluation of a flow direction probe and a pitot-static probe on the F-14 airplane at high angles of attack and sideslip
[NASA-TM-84911] 11 p1606 N84-20514

On the stability of flight vehicles in the low Reynolds number non-linear regime
[AD-A138379] 12 p1773 N84-21559

Data acquisition and aerodynamic coefficient estimation at high angles of attack
13 p1927 N84-22542

Effect of aerodynamic and angle-of-attack uncertainties on the blended entry flight control system of the Space Shuttle from Mach 10 to 2.5
[NASA-TP-2283] 14 p2110 N84-23652

Rotary balance data for a typical single-engine general aviation design for an angle-of-attack range of 20 to 90 deg. 3: Influence of control deflection on predicted model D spin modes
[NASA-CR-3248] 16 p2438 N84-25641

Experimental pressure distributions on axisymmetric forebodies at Mach 3 and angles of attack up to 17.5 degrees
[AD-A140321] 16 p2442 N84-25668

Magnetohydrodynamic flow past nonconducting wedge
17 p2647 N84-26931

Three-dimensional turbulent boundary layers at bielliptical bodies in stream of compressible gas at some angle of attack
17 p2648 N84-26936

Integrated Application of Active Controls (IAAC) technology to an advanced subsonic transport project: Wing planform study and final configuration selection
[NASA-CR-3468] 18 p2792 N84-27720

Flight characteristics of a manned, low-speed, controlled deep stall vehicle
[NASA-TM-86041] 20 p3128 N84-29863

Experimental investigations on airfoils with different geometries in the domain of high angles of attack — flow separation
[REPT-A-5/84-PT-1] 23 p3691 N84-33393

High angle of attack test and evaluation techniques for the 1990s
24 p3847 N84-34399

ANGLES (GEOMETRY)

NT ANGLE OF ATTACK
NT BRAGG ANGLE
NT BREWSTER ANGLE
NT ELEVATION ANGLE
NT GRAZING INCIDENCE
NT LEADING EDGE SWEEP
NT SWEEP ANGLE
NT ZERO ANGLE OF ATTACK

Forward multiple scattering corrections as function of detector field of view
[AD-A130631] 01 p0106 N84-10686

Ultrasonic reflection from solid halfspaces and from solid plates
[AD-A129886] 01 p0140 N84-10916

Investigation of the Rayleigh critical angle phenomenon for the characterization of surface properties
[AD-A131530] 03 p0360 N84-12340

A vertical wind angle standard deviation calculation method for the unstable surface boundary layer
[AD-A132362] 04 p0567 N84-13739

Study on deep-hole boring by BTA system solid boring tool: Burnishing effect and guiding action of tool head
07 p0984 N84-16372

Use of radar image texture in geologic mapping
07 p0988 N84-16402

Photogrammetric method for determining geometric visual perception
[FOA-C-20478-D8] 07 p1008 N84-16539
Visual slant misperception and the Black-Hole landing situation
[NASA-TM-85866] 07 p1049 N84-16795
Reflected overpressure impulse on a finite structure
[AD-A137259] 11 p1653 N84-20792
Implementation of the Sun position calculation in the PDC-1 control microprocessor 18 p2875 N84-28257
Differential rectification of SLR-images using map-derived and radar-generated digital elevation models
[AD-A141828] 19 p3006 N84-29054
Small-angle method in study of single and multiple scattering 20 p3225 N84-30492
Conformal array analysis
[AD-P003504] 21 p3384 N84-31472
Axial-conductances angular filter investigation
[AD-A142802] 21 p3386 N84-31487

ANGULAR ACCELERATION
Support structures for large infrared telescopes
[NASA-CR-3800] 20 p3200 N84-30328

ANGULAR CORRELATION
Baryon-antiberyon angular correlations in quark jets
[DE83-015923] 03 p0435 N84-12854
TDPAC (Time Differential Perturbed Angular Correlations) study of liquid and amorphous se sub (1-x)Te sub x alloys
[AD-A135588] 09 p1279 N84-18353

ANGULAR DISTRIBUTION
Recent results in the study of heavy-ion eleastic scattering at large angles
[DE83-012214] 01 p0142 N84-10935
New statistical and non-statistical effects in deep inelastic heavy-ion collisions
[DE83-015732] 03 p0439 N84-12885
Temperature dependence of the electric-field gradient in Er metal
[DE83-015564] 03 p0454 N84-12989
Stellar winds driven by multi-line scattering 03 p0469 N84-13087
Recent developments in the understanding of pion-nucleus scattering
[DE84-001017] 04 p0597 N84-13942
Statistical properties of deep inelastic reactions
[DE84-000722] 04 p0598 N84-13943
Proposal for a free electron laser in the X-ray region
[DE84-004735] 10 p1501 N84-19808
Reactive resonance and angular distributions in the rotating linear model
[DE84-011354] 20 p3295 N84-30919

ANGULAR MOMENTUM
A numerical study on the evolution of tornadoes 03 p0409 N84-12679
New statistical and non-statistical effects in deep inelastic heavy-ion collisions
[DE83-015732] 03 p0439 N84-12885
Ambipolar diffusion in interstellar clouds: One-dimensional, isothermal collapse 06 p0939 N84-16099
On the role of the baroclinic structure in extratropical cyclone development: A case study 11 p1684 N84-20987
Excitation of simple atoms by slow magnetic monopoles
[DE84-008209] 12 p1903 N84-22393
Nuclear moments of inertia at high spins
[DE84-005717] 14 p2224 N84-24345

ANGULAR MOTION
U ANGULAR VELOCITY

ANGULAR RESOLUTION
Demonstration of angular anisotropy in the output of Thematic Mapper
[E84-10095] 10 p1522 N84-19965
Nimbus-7 ERB (Earth Radiation Budget) Sub-Target Radiance Tape (STRT) data base
[PB84-149921] 14 p2177 N84-24039
Image dissector tube star trackers performance: Advantages and drawbacks as compared to those of charge transfer device star trackers 15 p2266 N84-24606
Large Deployable Reflector Science and Technology Workshop. Volume 3: Systems and technology assessment. Conclusions 21 p3523 N84-32321
Angle resolution of wideband signals received by two slightly diverse linear antenna arrays 22 p3565 N84-32582
Angular resolution of coherent and noncoherent sources
[AD-A143287] 22 p3648 N84-33129
Research relative to high energy astrophysics — large area modular array of reflectors, X-ray spectroscopy, and thermal control
[NASA-CR-173878] 22 p3678 N84-33315

ANGULAR VELOCITY
An experimental study of multi-link models of human postural dynamics and control 04 p0572 N84-13769
Gravitational orientation of the orbital complex, Salyut-6--Soyuz
[NASA-TM-77299] 07 p0961 N84-16228
Displacement angle relation for the cross crank mechanism: An exact kinematic measure synthesis
[WTHD-155] 12 p1823 N84-21886
Dynamic response of rotating beams with nonconstant angular velocity 16 p2503 N84-26067
A three-degree-of-freedom flight simulator for spin-stabilized projectiles
[AD-A140657] 17 p2610 N84-26709
Determining orientation of solid object 17 p2642 N84-26907
Orientation and calibration of three-dimensional tachometer with aid of available angle data 17 p2651 N84-26954
Spin analysis of concentrated traction contacts
[NASA-TM-83713] 17 p2675 N84-27042
Oscillations of a reservoir with a fluid on the free surface of which a membrane is located
[AD-A142127] 19 p3024 N84-29179
Psychophysics of proprioceptive sensibility 21 p3456 N84-31933
Dynamics of angular movements of a solid supporting a rotating rotor with consideration of energy dissipation
[AD-A143349] 22 p3611 N84-32881

ANHYDRIDES
NT PEROXIDES
Preparation of anhydrous hydrazine
[INPE-2806-PRE/366] 02 p0203 N84-11320
Fire and heat resistant laminating resins based on maleimido substituted aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-1] 13 p1953 N84-22697
Calorimetric determination of the thermodynamic behavior of reversible liquid-phase reactions for use in energy storage
[DE84-010437] 21 p3507 N84-32218
Synthesis of monomers for the preparation of regiospecifically substituted poly(phenylacetylenes) as potential chemical detectors
[AD-A144690] 24 p3889 N84-34828

ANILINE
Molecular supersonic jet studies of Aniline solvation by helium and methane
[AD-A132879] 05 p0650 N84-14276
Molecular jet study of aniline-helium van der Waals molecules and aniline radiationless relaxation in the 1-B sub 2 excited electronic state
[AD-A132726] 05 p0744 N84-14888
Electrochemistry of anilines. 2: Oxidation to dications, electrochemical and UV/VIS spectroelectrochemical investigation
[AD-A136949] 10 p1454 N84-19498
High energy density lithium primary cells using nitrogen containing polymer positives
[AD-A137377] 10 p1529 N84-20018
Mode-to-mode vibrational energy transfer in (1)B2 aniline induced by collisions with CO/sub 2
[DE84-007197] 15 p2406 N84-25440

ANIMALS
NT AMPHIBIA
NT ARTHROPODS
NT BABOONS
NT BIRDS
NT CATS
NT CATTLE
NT CHICKENS
NT DOGS
NT FISHES
NT FROGS
NT HUMAN BEINGS
NT INSECTS
NT INVERTEBRATES
NT LIVESTOCK
NT MAMMALS
NT MICE
NT MICROSPORES
NT MONKEYS
NT MOTHS
NT PIGEONS
NT PRIMATES
NT PROTOZOA
NT RABBITS
NT RATS
NT RODENTS
NT SHEEP
NT VERTEBRATES
NT WHALES
NT WILDLIFE
The design and operation of systems for inhalation exposure of animals
[DE83-015388] 01 p0112 N84-10727
The relevance of experimental animal studies to the human experience
[DE83-014053] 01 p0112 N84-10729
Influence of nitrogen dioxide on xenobiotic metabolism in animals
[PB83-239723] 02 p0265 N84-11743
NASA space biology accomplishments, 1982
[NASA-TM-86244] 04 p0488 N84-13206
Bibliography of research reports and publications issued by the Toxic Hazards Division, 1957-1982
[AD-A133637] 05 p0713 N84-14672
NASA Space Biology Program. Eighth annual symposium's program and abstracts
[NASA-CP-2299] 09 p1351 N84-18829
Operational evaluation of a new 435-mHz radiation facility
[AD-A138474] 12 p1773 N84-21564
The use of a small digital computer for on-line behavioral experiments
[AD-A138975] 13 p2025 N84-23126
Canyon and slope processes study. Volume 1: Executive summary
[PB84-169481] 17 p2738 N84-27391
Animal models of human performance: Structural and functional approaches to extrapolating from animal to man
[AD-P003292] 18 p2908 N84-28442
Animal models for the assessment of laser induced eye damage
[AD-P003293] 18 p2908 N84-28443
The assessment of nonionizing radiation hazards
[AD-P003294] 18 p2908 N84-28444
NASA space biology accomplishments, 1983-84
[NASA-TM-86654] 20 p3256 N84-30664
Vertebrate behavior and ecology
[DE84-007318] 20 p3257 N84-30673
Publications of the NASA space biology program for 1980 - 1984 — bibliographies
[NASA-TM-86657] 22 p3628 N84-32990
Dosimetry of ozone and nitrogen dioxide in man and animals
[PB84-195304] 22 p3631 N84-33009
Integration of species sensitivity and dosimetry data in the extrapolation of ozone and nitrogen dioxide health data from animals to man
[PB84-195312] 22 p3631 N84-33010

ANIMATION
U MOTION

ANIONS
Battery transport data
[DE84-001640] 04 p0526 N84-13462
Summary of the status of negative-ion-based neutral beams
[DE84-001328] 04 p0598 N84-13948
Properties of polyurethane anionomers: Ionization via bimolecular nucleophilic displacement of the urethane hydrogen
[AD-A137988] 12 p1801 N84-21742
Negative-ion formation from surface scattering and the Anderson correlation energy U
[AD-A138390] 12 p1914 N84-22473
Simulation of lubricating behavior of a thioether liquid lubricant by an electrochemical method
[NASA-TP-2316] 14 p2129 N84-23764
Inner-sphere reorganization in optical electron transfer
[AD-A139722] 15 p2405 N84-25435
Gas-liquid correlation of ionization energies
[AD-A141255] 18 p2930 N84-28578

ANISOTROPIC MEDIA
Hamiltonian for antisotropic bodies with defects
[ISSN-0208-5658] 03 p0451 N84-12966
Geometrically nonlinear analysis of layered anisotropic plates and shells 05 p0695 N84-14562
Transversely anisotropic optical fiber: Variatioonal analysis of a nonstandard eigen problem
[REPT-S-133] 09 p1390 N84-19080
Asymptotic analysis of weakly guiding anisotropic optical fibers
[REPT-S-136] 09 p1390 N84-19081
Angular corrections of satellite derived measurements of radiances 10 p1534 N84-20046
Modeling anisotropic properties of media with oriented fractures 17 p2706 N84-27234
Problems in seismic anisotropy of thin-layered media 18 p2859 N84-28157
Low energy (130 eV) oxygen ions at the geoasynchronous orbit during the CDAW-6 event of March 22, 1979
[IFSI-83-17] 18 p2881 N84-28291
A shear deformable shell element for laminated composites 21 p3420 N84-31691
Intensity of radiowave scattering on anisotropic irregularities with various positions of scattering volume about caustic zone 22 p3566 N84-32585

ANISOTROPIC PLATES
An interactive computer program for analysis of ultrasonic modulus data on anistropic materials
[NPL-DMA(A)-68] 03 p0388 N84-12526
Effect of stress singularities on the delamination of laminated composites 15 p2310 N84-24858
Numerical solution of rectangular anisotropic plates in flexure with free edges
[NPL-DMA(A)-71] 15 p2346 N84-25075
The influence of stress on the principal polarisation directions of ultrasonic shear waves in textured steel plates
[AERE-R-11078] 18 p2854 N84-28124

ANISOTROPY
NT ELASTIC ANISOTROPY
NT PLASTIC ANISOTROPY
Some effects of anisotropic roughening on the wetting of metal surfaces
[AERE-R-10976] 01 p0047 N84-10305
The anisotropy of high latitude nighttime F-region irregularities
[AD-A131215] 01 p0106 N84-10688
Study of materials having significance for high energy magnet production and for hydrogen storage
[AD-A130900] 01 p0138 N84-10906
Technology of thin silicon foils in respect to the fabrication of monolithic integrated sensors
[BMFT-FB-T-83-069] 02 p0206 N84-11347
Experimental and theoretical studies of electron beam lithography for the fabrication of semiconductor circuits with submicron dimensions: Water distortion, comparison of results
[BMFT-FB-T-83-068] 02 p0216 N84-11414
The polarization and anisotropy on large angular scales of the microwave background radiation in homogeneous cosmologies 02 p0306 N84-12007
Anisotropy and microstructure of Sm2(Co, Fe, Cu, Zr)17 magnetic materials
[AD-A131961] 03 p0352 N84-12291
Beam plasma turbulence study
[AD-A131946] 03 p0444 N84-12917
The behavior of the cosmic ray equatorial anisotropy inside fast solar wind streams ejected by coronal holes
[IFSI-82-16] 03 p0475 N84-13130
Absolute determination of stress in textured materials
[DE83-018083] 04 p0550 N84-13621
The effects of naturally-occurring propagation disturbances on discrete focused arrays
[AD-A132645] 05 p0670 N84-14404
Tearing instability in an anisotropic neutral sheet
[AD-A132684] 05 p0749 N84-14920
An anisotropic model of diffuse solar radiation with application to an optimization of compound parabolic collectors 05 p0765 N84-15017
Large scale anisotropy of the 3K cosmic background radiation at 24.8, 31.4 and 46.0 GHZ 05 p0765 N84-15020
A study of the return to isotropy of homogeneous turbulence 06 p0780 N84-15110
Lateral heterogeneity and azimuthal anistropy of the upper mantle: Love and Rayleigh waves 100-250 sec
[NASA-CR-174619] 06 p0878 N84-15710
Impact experiments in viscous fluid media
[NASA-CR-173196] 07 p1040 N84-16745
Studies in RF emission and absorption in EBT plasmas
[DE84-002118] 07 p1076 N84-16996
Sound velocity anisotropy in cubic crystals
[NASA-CR-175344] 07 p1079 N84-17016
Phenomenology of structured plasma in the ionosphere
[AD-A136396] 09 p1345 N84-18784
Development of a large area color display
[BMFT-FB-T-83-206] 10 p1499 N84-19801
The Shock and Vibration Digest, volume 15, no. 6
[AD-A131730] 10 p1505 N84-19841
Nonlinear vibrations of plates: A review 10 p1505 N84-19842
Biaxial tension tests of HERF 304L stainless steel
[DE84-006205] 11 p1634 N84-20685
Lubrication of engineering surfaces, phase 2
[DE84-005685] 11 p1665 N84-20863
The effect of excitation anisotropy in the laser-induced fluorescence spectroscopy of plasmas 11 p1735 N84-21319
Influence of anisotropy and viscosity on propagation on waves in multilayer cylinders 12 p1786 N84-21660
Approach to solving problem of acoustic wave diffraction by elastic shell 13 p1973 N84-22804
Light-induced nonreciprocity: Directional optical bistability; spectroscopy of induced anisotropy; nonlinear Sagnac effect 14 p2241 N84-24452
Theory of exterior and harmonic eigenstrains 16 p2503 N84-26065
Spatial fluctuations in the diffuse cosmic X-ray background, volumes 1 and 2 17 p2775 N84-27621
Problems in seismic anisotropy of thin-layered media 18 p2859 N84-28157
Plasma Physics on auroral field lines: The formation of ion conic distributions
[NASA-CR-173683] 18 p2932 N84-28595
Orientation and morphology effects in rapid silicon sheet solidification 18 p2937 N84-28627
Microwave and theoretical studies for Cosmic Background Explorer satellite
[NASA-CR-175248] 18 p2954 N84-28721
Methods of analyzing processes of plastic working of metal, part 4 19 p2991 N84-28951
Anisoptropic diffusion kinetics of metals and carbides in pyrolytic graphite
[BLL-CTO-2261-(9091.9F)] 19 p2991 N84-28953
Noncubic magnetic anisotropy in YSmLuCaFeGe garnet films 20 p3287 N84-30869
Acceleration of ions and electrons by wave-particle interactions
[AD-A142341] 20 p3292 N84-30900
Properties of bubble domains in cholesteric-nematic mixtures 21 p3477 N84-32039
Possible cosmological origin of the ultra high energy cosmic rays
[DE84-013083] 22 p3681 N84-33334
Texture effect on anisotropy of electric and magnetic properties of titanium alpha-alloys 23 p3708 N84-33506
Qualitative analysis of the anisotropic Kepler problem 23 p3819 N84-34221
The effects of impurities and additives on the growth of polycrystalline TNT
[MRL-R-916] 24 p3890 N84-34629
An anisotropic lens for launching TEM waves on a conducting circular conical system
[AD-A144140] 24 p3893 N84-34656
The density distribution of galactic cosmic rays allowing for the generalized tensor of anisotropic diffusion and for the real distribution of solar activity 24 p3994 N84-35275

ANNEALING
NT LASER ANNEALING
NT PULSE HEATING
Study of deep-level defects and transport properties vs. growth parameters and annealing conditions in III-IV compound semiconductors
[AD-A130776] 01 p0153 N84-11008
Radiation testing of the CMOS 8085 microprocessor family
[DE83-014604] 02 p0271 N84-11771
Semiconductor processing with excimer lasers
[DE83-007509] 03 p0380 N84-12477
X-ray and backscattering analysis of ion implantation phenomena in GaAs and related compounds
[AD-A132429] 04 p0612 N84-14038
Determining stresses in the presence of nonlinearities in interplanar spacing versus Sin squared Psi
[AD-A132365] 04 p0612 N84-14041
Glass-like carbon: A C/sub x/H polymer intercalation compound
[DE84-001863] 05 p0660 N84-14340
Annealing of interstitial loops in arsenic implanted silicon
[DE84-000384] 05 p0755 N84-14953
Energy release and transformation of shock-modified zirconia upon annealing to 1550 deg C
[DE83-017801] 05 p0755 N84-14954
Volume recovery in glasses: A free-volume diffusion process
[DE83-013771] 06 p0811 N84-15280
Beam processing for high-efficiency Si solar cells
[DE84-002059] 06 p0874 N84-15690
Evaluation of radiation damage to Metal-Oxide-Semiconductor (MOS) devices
[AD-A133593] 06 p0923 N84-16002
Comparison of thermal, line-source electron beam and CW laser annealing for the fabrication of ErSi/sub 2 Schottky barrier on Si
[DE84-003105] 07 p1081 N84-17031
Neutron cross sections for defect production by high-energy displacement cascades in copper
[DE84-002116] 07 p1083 N84-17045
Precipitation in rapidly solidified Al-Mn alloys
[AD-A136128] 09 p1284 N84-18385
Characterization of ceramic powders by an X-ray measuring method
[NASA-TM-77094] 09 p1286 N84-18398
Monolithic ZnO SAW (Surface Acoustic Waves) structures
[AD-A135987] 09 p1309 N84-18557
Annealing effects in ferromagnetic amorphous alloys
[AD-A136843] 10 p1460 N84-19534
Influence of aging in martensite state on mechanical properties of Cu-Al-Zn system Beta-alloy 12 p1784 N84-21641
A detailed comparison of hydrogen and mercury embrittlement in Monel 400
[AD-A139119] 14 p2127 N84-23753
Impurity and defect interactions in GaAs
[AD-A139592] 14 p2243 N84-24485
Effect of electric field on build-up and annealing of E5-centers in GaAs 18 p2825 N84-27934
Role of charged state in build-up and annealing of deep centers in GaAs irradiated by protons 18 p2825 N84-27938
Cold working and annealing effects on the creep and rupture resistance of the oxide-dispersion-strengthened alloy MA754
[AD-A141438] 19 p2993 N84-28969
Furnace transient anneal process and apparatus
[AD-D011048] 19 p3002 N84-29027
Ion implantation, ion beam mixing and annealing studies of metals in Al2O3, SiC and Si3N4
[DE84-012336] 20 p3157 N84-30052
Low cost, sprayed CuInSe2 solar cell research
[DE84-010480] 20 p3235 N84-30533
Intelligent optical design program
[DE84-010071] 20 p3279 N84-30813
Physical aging and its influence on the reliability of network epoxies and epoxy-matrix composites
[NASA-CR-173870] 21 p3356 N84-31289
Superplasticity in thermomechanically processed high magnesium aluminum-magnesium alloys
[AD-A143164] 21 p3366 N84-31356
The effects of lithium counterdoping on radiation damage and annealing in n(+)p silicon solar cells
[NASA-TM-83755] 21 p3390 N84-31513
Formation of silicide contacts using codeposited refractory metals alloy films
[AD-A142879] 21 p3391 N84-31519
Manufacture and characterization of Pb(1-x)Sn(x)Te photoconductors
[INPE-3045-TDL/157] 22 p3662 N84-33212
Basic problems in InP technology
[AD-A143456] 22 p3663 N84-33222
Process Research of Polycrystalline Silicon Material (PROPSM)
[NASA-CR-173935] 23 p3789 N84-34033
Effect of annealing under thermodynamically stable conditions on the formation and transformation of structural defects in diamond monocrystals
[CSIR-TRANS-1737] 23 p3829 N84-34288
Growth of CdTe/HgTe superlattice with the LADA (Laser Assisted Deposition and Annealing) techniques
[AD-A143948] 23 p3830 N84-34295
Hydrogen embrittlement of titanium and its alloys 24 p3875 N84-34554
Relationship of structure with cyclic crack resistance of Alpha-titanium alloys 24 p3875 N84-34557
Influence of conditions and medium of annealing on short-term strength and fatigue resistance of welded joints in OT4 titanium alloy 24 p3876 N84-34559
Irradiation creep of solution annealed and coldworked 316 stainless steel
[DE84-780404] 24 p3885 N84-34613

ANNIHILATION REACTIONS
NT POSITRON ANNIHILATION
Photon-photon production in hadron-hadron collisions
[DE83-015948] 02 p0292 N84-11912
The e+e- collisions in the multi-TeV region
[DE84-000993] 04 p0601 N84-13968
New particles and interactions
[DE84-001444] 05 p0745 N84-14894
Equilibria in strongly magnetized pair plasmas 09 p1407 N84-19191
Physics, Computer Science and Mathematics Division
[DE84-003915] 09 p1418 N84-19278
Research in elementary particle physics
[DE84-006130] 12 p1903 N84-22392
Nuclear and particle physics aspects of hyperon and antinucleon interactions
[DE84-010793] 20 p3293 N84-30905
Physics of nonmagnetic relativistic thermal plasmas
[NASA-TM-86154] 24 p3965 N84-35107

ANNOTATIONS
Annotation language design for Ada (ANNA)
[AD-A140452] 16 p2545 N84-26336

ANNUAL VARIATIONS
Tidal and solar cycle effects on the OI 5577 angstrom, NaD and OH(8,3)airglow emissions observed at 23 deg S
[INPE-2901-PRE/419] 02 p0248 N84-11620
A candidate hypothesis for the generation of quasi-biennial variations in sea level pressure 02 p0252 N84-11652
Predicting lake ice decay
[AD-A132012] 03 p0401 N84-12618
Estimating long-term mean winds from short-term wind data
[DE83-017417] 03 p0412 N84-12693

Seasonal soybean crop reflectance
[E84-10049] 04 p0553 N84-13642
Observations and theory of irregularities of middle latitude sporadic E layers 04 p0562 N84-13703
Worldwide experience of wind shear during 1981-1982 06 p0776 N84-15087
Forecasters handbook for the Middle East/Arabian Sea
[AD-A134312] 07 p1039 N84-16739
A statistical-dynamical study of the large-scale intraseasonal variability of the northern hemisphere winter circulation 08 p1184 N84-17716
The relation between isolated tree brightness temperature and grass background brightness temperature
[AD-A135843] 09 p1389 N84-19070
Connecticut ELF (Extremely Low Frequency) field measurements, May to July 1977
[AD-A137416] 10 p1480 N84-19668
Study of the seasonal variation of the tropical ocean front between the Brazil Current and the Malvinas Current, using oceanographic and SMS-2 satellite data
[INPE-2780-TDL/137] 10 p1539 N84-20082
A study of the weather record from Fanoe (1872-1980) including an analysis of climate variation
[AD-A136694] 10 p1540 N84-20090
Comprehensive analyses of variances of meteorological fields over Southern Bavaria
[DFVLR-FB-83-31] 10 p1541 N84-20097
Seasonal climate fluctuations as steady and periodic flow states of a barotropic model of planetary waves 10 p1542 N84-20108
Marine fouling at HMAS Stirling, western Australia
[MRL-R-914] 11 p1692 N84-21038
Plasma bubble irregularity occurrence and zonal velocities under quiet and disturbed conditions, from polarimeter observations
[INPE-3023-PRE/461] 12 p1846 N84-22036
Solar cycle related range type spread F occurrence characteristics over equatorial and low latitude stations in Brazil
[INPE-3024-PRE/462] 12 p1846 N84-22037
Equatorial plasma bubble eastward velocity characteristics from scanning airglow photometer measurements over Cachoeira Paulista
[INPE-3026-PRE/464] 12 p1847 N84-22039
Interannual variability of Indian monsoon rainfall 12 p1855 N84-22081
The simulation of transient statistics of the Southern Hemispheric circulation by the GLAS seasonal cycle model: Preliminary results 12 p1855 N84-22082
Teleconnection patterns in the Southern Hemisphere 12 p1855 N84-22084
On the role of the transient eddies in maintaining the seasonal mean circulation 12 p1855 N84-22086
Two contrasting Northern Hemisphere winters: 1980 - 1981 and 1981 - 1982 12 p1855 N84-22087
Prospects for improvement of zonal mean temperatures in the UCLA general circulation model 12 p1856 N84-22088
Climate sensitivity with a seasonal cycle energy balance model 12 p1856 N84-22091
Design for and efficient dynamic climate model with realistic geography 12 p1856 N84-22092
Some properties of transient phenomena in the extra-tropical region and their importance in the seasonal mean flow 12 p1859 N84-22112
Low frequency variability and tropical-extratropical interactions 12 p1859 N84-22113
A study of Western North Pacific tropical storms and typhoons that intensify after recurvature
[AD-A138792] 13 p2017 N84-23075
The effect of interior motion on seasonal thermocline evolution
[AD-A138270] 13 p2018 N84-23088
Evaluation of the effects of the seasonal variation of solar elevation angle and azimuth on the processes of digital filtering and thematic classification of relief units
[E84-10121] 14 p2167 N84-23980
Wind climate of the Netherlands
[ISBN-90-12-04466-9] 14 p2178 N84-24045
A preliminary study of the feasibility of detecting long-term trends in atmospheric humidity
[DE84-006417] 14 p2180 N84-24055
Vegetation, land-use and seasonal albedo data sets: Documentation of archived data tape
[E84-10133] 15 p2357 N84-25142
Evaluation of solar angle variation over digital processing of LANDSAT imagery — Brazil
[E84-10140] 16 p2507 N84-26088
Multiseasonal variables in digital image enhancements for geological applications
[E84-10145] 16 p2508 N84-26093
A simplified upper atmosphere model to explain seasonal phenomena
[INPE-3071-PRE/488] 16 p2521 N84-26181
On the 1983 drought in Northeast Brazil
[INPE-3110-PRE/509] 16 p2528 N84-26229
Nimbus 7 SMMR derived seasonal variations in the water vapor, liquid water and surface winds over the global oceans
[NASA-TM-86080] 16 p2528 N84-26233
Seasonal oscillations of the subtropical convergence between the Brazil and Malvinas currents, using oceanographic and SMS-2 satellite data
[INPE-3092-PRE/497] 16 p2532 N84-26255
Maps of favorable areas for tuna fishing to the South and Southeast of Brazil prepared from SMS-2 satellite data
[INPE-3102-PRE/501] 16 p2532 N84-26256
Modeling seasonal evolution of thermal regime of ocean-atmosphere system 17 p2697 N84-27181
Seasonal variability of surface currents in world ocean 17 p2698 N84-27188
Asymptotic form of solution of problem of seasonal evolution of thermal regime in ocean 17 p2699 N84-27194
Quasibiennial cycle of thermodynamic atmosphere-ocean interaction in North Atlantic 17 p2700 N84-27198
Recent advances in multispectral sensing of ocean surface temperature from space 17 p2717 N84-27297
Tabulations of ozonesonde data, 1963 - 1980
[NASA-CR-174631] 17 p2733 N84-27375
Renormalization of seasonals in the additive seasonal model: Is it necessary?
[AD-A140799] 17 p2734 N84-27379
Temperature response of cryosphere area in northern hemisphere 18 p2856 N84-28138
An explanation of the spectral seasonal variations in the night airglow emissions
[KGI-PREPRINT-066] 18 p2880 N84-28288
Diurnal and annual variation of climatic elements in Finland
[T-551.583.13(480)] 18 p2883 N84-28294
Climatology of heating-degree days in the Netherlands during the years 1961-1980
[KNMI-TR-47] 18 p2891 N84-28351
Error analysis for winters' additive seasonal forecasting system
[AD-A141355] 19 p3058 N84-29399
The space-time scales of variability in oceanic thermal structure off the central California coast
[AD-A142040] 19 p3062 N84-29428
Middle atmospheric science 20 p3219 N84-30448
Changes in Earth's rotation rate caused by zonal tide and their manifestations in atmospheric pressure field 20 p3224 N84-30487
US average wind power by season
[DE84-012214] 20 p3248 N84-30613
Comparative study of heat pump regulation systems. The problem of defrosting evaporators
[CETIM-100250] 21 p3403 N84-31589
Prescription of land-surface boundary conditions in GISS GCM 2: A simple method based on high-resolution vegetation data bases
[NASA-TM-86096] 21 p3430 N84-31761
Variability in the height distribution of electrojet currents of Jicamarca
[INPE-3205-PRE/563] 21 p3442 N84-31840
Comparison between density profiles obtained at Cachoeira Paulista, Brazil, and deduced from IRI-79 model
[INPE-3136-PRE/527] 21 p3443 N84-31843
Interannual variations of rainfall in northeast Brazil and their connections with the large-scale features
[INPE-3207-PRE/565] 21 p3447 N84-31868
Seasonal ice variation in the Barents Sea obtained from the Nimbus 7 Scanning Multichannel Microwave Radiometer (SMMR) observations 23 p3773 N84-33919
Temporal and latitudinal distribution of ionosphere irregularity in Brazil, data analysis of scintillations in very high frequencies and ionograms
[INPE-3179-TDL/172] 23 p3798 N84-34081
Seasonal climate scenarios for Europe and North America in a high-CO2, warmer world
[DOE/EV-10098/5] 23 p3801 N84-34104
A first attempt to identify areas of high probability for the occurrence of surface skipjack schools (Katsuwonus pelamis), from an analysis of oceanographic data for the south-southeast region of Brazil
[INPE-2972-RPE/449] 23 p3803 N84-34112
Studies of midaltitude cyclone structure with SEASAT scanning multichannel microwave radiometer 24 p3930 N84-34877
Some preliminary results of ionospheric slab thickness observations at Lunping 24 p3956 N84-35045

ANNULAR FLOW
Annular Momentum Control Device (AMCD) 03 p0345 N84-12241
Effects of a skewed inlet end wall boundary layer on the 3-D flow field in an annular turbine cascade 07 p0956 N84-16202
Annulus wall boundary layer development in a compressor stage, including the effects of tip clearance 07 p0957 N84-16207
Air Force Academy Aeronautics Digest - Fall/Winter 1982
[AD-A135073] 08 p1099 N84-17145
Turbulent flow annular pump seals: A literature review 12 p1822 N84-21875
Unsteady laminar natural convection inside an annular cavity
[CFD-83/8] 18 p2838 N84-28014
Secondary flow theory in straight and annular cascades 19 p3022 N84-29163
Experimental research on secondary flows in annular turbine cascades at the Von Karman Institute 19 p3022 N84-29165
Annulus endwall boundary layer theory — turbomachinery 19 p3023 N84-29167
Calculation of three dimensional viscous flows in annular cascades using parabolized Navier-Stokes equations 19 p3023 N84-29168
Natural convection in porous media: An experimental and numerical study for vertical annular and rectangular enclosures 22 p3592 N84-32744
Supersonic jet shock noise reduction
[NASA-TM-83799] 24 p3961 N84-35085

ANNULAR NOZZLES
Inverted velocity profile semi-annular nozzle jet exhaust noise experiments
[NASA-TM-83525] 04 p0595 N84-13924

ANNULAR PLATES
Elastic-plastic analysis of annular plate problems using NASTRAN
[AD-A131293] 02 p0231 N84-11518
Elastic-plastic analysis of annular plate problems using NASTRAN 06 p0861 N84-15607

ANNULAR SUSPENSION AND POINTING SYSTEM
Conceptual design of a noncontacting power transfer device for the ASPS Vernier system
[NASA-CR-172238] 22 p3581 N84-32677

ANNULI
The structure of turbulent entraining flow in an annulus with a rotating screen 06 p0832 N84-15416
A topological version of a theorem of Mather on twist maps
[AD-A137950] 11 p1716 N84-21189
Shaft transducer having dc output proportional to angular velocity
[NASA-CASE-NPO-15706-1] 18 p2838 N84-28017
Secondary flow theory in straight and annular cascades 19 p3022 N84-29163
Experimental research on secondary flows in annular turbine cascades at the Von Karman Institute 19 p3022 N84-29165
Annulus endwall boundary layer theory — turbomachinery 19 p3023 N84-29167
Calculation of three dimensional viscous flows in annular cascades using parabolized Navier-Stokes equations 19 p3023 N84-29168

ANODES
NT CELL ANODES
NT TUBE ANODES
Cathodic protection in simulated geothermal environments
[DE83-013690] 01 p0045 N84-10291
Carbonaceous anode depolarizers for electrolytic hydrogen production
[DE83-013278] 01 p0053 N84-10343
Zinc/bromine prototype-batteries evaluation
[DE83-011861] 01 p0072 N84-10473
Anode plasma expansion in pinch-reflex diodes
[AD-A131083] 01 p0149 N84-10977
Decoupling ion efficiency from impedance in pulsed power diodes
[DE83-018114] 04 p0528 N84-13470
Analysis of mechanisms for anode plasma formation in ion diodes
[DE83-017793] 04 p0608 N84-14010
Preliminary investigation of ceramic-coated anodes for cathodic protection
[AD-A133440] 06 p0810 N84-15273
Calcium-thionyl chloride battery technology
[AD-A133570] 06 p0830 N84-15401
The definition of the process of electrochemical impregnation of nickel electrodes
[NASA-TM-77356] 09 p1277 N84-18338
The effect of pulse current on the electrical strength of high-voltage modulator tubes
[AD-A136489] 09 p1307 N84-18544
Metal oxide anodes for the photoelectrochemical generation of oxygen
[DE84-004168] 10 p1456 N84-19511

Anodic oxidation of furans in aprotic solvents
[AD-A137081] 10 p1468 N84-19587
Wavelength measurement of X-ray lines from He-like ions 11 p1736 N84-21326
Bimetal and multimetal galvanic corrosion prediction using long- and short-term polarization curves
[AD-A139693] 15 p2297 N84-24786
Evaluation of the effect of non-metallic inclusions in steel electrodes on the frequency of flashbacks in mercury-arc rectifiers
[BLL-ERA-TRANS-3002/23] 17 p2662 N84-26982
Rigid indented cylindrical cathode for X-ray tube
[DE84-011093] 20 p3160 N84-30204
The effect of current density on anode depolarization economics
[DE84-010465] 21 p3392 N84-31524
A review of anode phenomena in vacuum arcs
[DE84-012371] 21 p3395 N84-31547
Electrochemically deposited cadmium electrode for sealed Ni-Cd cells 23 p3737 N84-33683
Anodic electrochemical processing of amorphous alloys 24 p3870 N84-34527

ANODIC COATINGS
An evaluation of the effect of cell voltage and termination current on barrier anodic Al2O3 film formation
[DE83-013961] 02 p0195 N84-11266
HgCdTe surface study program
[AD-A132071] 03 p0349 N84-12266
Study of the initial stages of anodic oxidation of polycrystalline silver in KOH solutions
[AD-A138381] 12 p1793 N84-21694
Anodic oxide formation on Ti-6Al-4V in chromic acid for adhesive bonding
[AD-A140057] 15 p2296 N84-24790
Selective coating heat pipe collector adaptation to solar energy plants
[BMFT-FB-T-84-054] 19 p3025 N84-29187
Dynamical properties of disordered systems
[AD-A141597] 19 p3085 N84-29580
Anodic processes and the kinetics of stress-corrosion cracking or corrosion fatigue
[DE84-012911] 21 p3368 N84-31367

ANODIZING
Investigation on the oxide layer of aluminium with respect to adhesive bonding
[MBB-BB-530-82-OE] 02 p0202 N84-11315
Electrode polarization studies in hot corrosion systems
[DE84-005485] 11 p1634 N84-20686
The black-anodizing of aluminum with inorganic dyes
[ESA-PSS-01-703-ISSUE-1] 16 p2465 N84-25798
Anodic dissolution of transition metal carbides at high current density 24 p3877 N84-34566

ANOMALIES
NT GRAVITY ANOMALIES
NT MAGNETIC ANOMALIES
Afternoon effect studies, part 1
[AD-A130926] 01 p0140 N84-10918
The southern oscillation: Oceanic-atmospheric circulation changes and related rainfall anomalies
[INPE-2903-PRE/420] 02 p0253 N84-11656
Theory of hyperfine anomalies in muonic atoms
[DE83-015392] 03 p0438 N84-12872
Geoid anomalies and fracture zones in the Pacific Ocean
[E84-10052] 05 p0696 N84-14572
Statistical data on anomalous propagation in the Tyrrhenian Sea using an X-band link 06 p0871 N84-15668
A long range propagation experiment to investigate the incidence of anomalous propagation in the north Atlantic 06 p0871 N84-15669
Anomalously high potentials observed on ISEE
[NASA-CR-172791] 08 p1115 N84-17252
Anomalous behavior of ISEE-1 detected by the electron density experiment 08 p1116 N84-17259
Atmospheric planetary-wave response to external forcing
[NASA-CR-175165] 08 p1186 N84-17726
Maximum entropy reconstruction of a volume anomaly from pulse scatter data
[DE84-002463] 08 p1237 N84-18084
El Nino and the southern oscillation: A scientific plan
[PB84-129733] 09 p1351 N84-18825
A study of phase transitions
[AD-A136449] 09 p1395 N84-19108
Empirical-theoretical survey of the variety of peculiarities and anomalies in the atmospheres enveloping actual stars 09 p1414 N84-19256
Annual and interannual variability in the Kuroshio Current System
[AD-P002685] 11 p1691 N84-21030
Aspects of medical examinations of airmen with regard to eye diseases 11 p1694 N84-21048
Chiral anomalies and differential geometry
[DE84-004837] 11 p1717 N84-21200
GCM sensitivity to 1982 - 1983 equatorial Pacific sea surface temperature anomalies 12 p1858 N84-22106
Low frequency variability and tropical-extratropical interactions 12 p1859 N84-22113
A classical picture of anomalous effects in a Tokamak
[IPPJ-664] 13 p2044 N84-23263
Geophysical investigations of a geothermal anomaly at Wadi Ghadir, eastern Egypt
[NASA-CR-173527] 14 p2175 N84-24030
One-dimensional model hindcasts of cold anomalies in the North Pacific ocean
[AD-A139870] 15 p2373 N84-25236
Shuttle flight data analysis 16 p2441 N84-25659
Barotropic studies of stationary extratropical anomalies in the troposphere 16 p2527 N84-26224
Diagnostics of rainfall anomalies in the Nordeste during the global weather experiment
[SAPR-1] 16 p2529 N84-26235
Geophysical and tectonic characteristics of Mongolian-Okhotsk seismic zone 17 p2701 N84-27206
Density inhomogeneities in upper mantle of eastern Indian Ocean 17 p2702 N84-27210
Anomalies in, and crystallization of supercooled water and aqueous solutions
[AD-A140582] 17 p2767 N84-27573
Prognostic relationships for surface temperature anomalies in northern part of Pacific Ocean 18 p2858 N84-28148
New types of transient processes observed in electromagnetic sounding 18 p2860 N84-28164
A synoptic case study analysis of the ocean temperature anomalies in the central Pacific region, 1976 - 1979
[AD-A142548] 20 p3251 N84-30631
Teleconnections and sea surface temperature anomaly effects on the drought of 1983 in northeast Brazil
[INPE-3214-PRE/567] 21 p3446 N84-31867
Proceedings of the 8th Annual Climate Diagnostics Workshop
[PB84-192418] 21 p3450 N84-31893
Solar flares and magnetospheric particles: Investigations based upon the ONR-602 experiment
[AD-A143144] 21 p3526 N84-32336
Aircraft liftmeter
[NASA-CASE-LAR-12518-1] 22 p3535 N84-32383
High-speed thyristors on weakly doped GaAs 22 p3568 N84-32600
The climatic impact of volcanic activity 22 p3624 N84-32963
Southern oscillation-El Nino events: Characteristics, evolution, and precipitation anomalies
[INPE-2976-PRE/438] 22 p3627 N84-32983
Large scale tropical heat sources and global atmospheric energy propagation associated with droughts in Northeast Brazil
[INPE-3227-PRE/578] 24 p3918 N84-34806

ANOMALOUS TEMPERATURE ZONES
Geothermal resources of southern Idaho
[USGS-CIRC-866] 14 p2168 N84-23988
Nimbus 7 SMMR derived seasonal variations in the water vapor, liquid water and surface winds over the global oceans
[NASA-TM-86080] 16 p2528 N84-26233
Acoustic ray-path fluctuations induced by El Nino
[PB84-167709] 16 p2534 N84-26270

ANORTHOSITE
Shock temperatures in anorthite glass
[NASA-CR-173364] 09 p1287 N84-18401

ANS
U ASTRONOMICAL NETHERLANDS SATELLITE

ANTARCTIC ENVIRONMENT
U ICE ENVIRONMENTS

ANTARCTIC REGIONS
NT ROSS ICE SHELF
Snow and ice research: An assessment
[PB83-231662] 01 p0101 N84-10656
Antartic sea ice, 1973 - 1976: Satellite passive-microwave observations
[NASA-SP-459] 01 p0110 N84-10718
L band satellite communication experiment in the Antartic
[ESA-TT-805] 03 p0362 N84-12356
Investigation of antarctic crust and upper mantle using MAGSAT and other geophysical data
[E84-10055] 06 p0864 N84-15627
Geomagnetic and related geophysical phenomena
[CSIR-SR-MAG-3] 07 p1032 N84-16693
Reports of the U.S. - U.S.S.R. Weddell Polynya Expedition, October-November 1981. Volume 7. Surface-level meteorological data
[AD-A134476] 07 p1041 N84-16747
Radioactivities in returned lunar materials and in meteorites
[NASA-CR-175347] 07 p1090 N84-17089
Reports of the U.S. - U.S.S.R. Weddell Polynya expedition, October-November 1981. Volume 6: Upper-air data
[AD-A134871] 08 p1187 N84-17736
Earth science investigations in the United States Antarctic Research Program (USARP)
[PB84-119460] 09 p1336 N84-18722
Antarctic Meteorite Newsletter. Volume 7, number 1: Sample requests and allocations
[NASA-TM-85559] 10 p1596 N84-20462
USSR report: Earth sciences
[JPRS-UES-84-003] 11 p1669 N84-20891
A numerical model of interactions between a polar ice stream, the ocean and the solid earth: Application to ice stream E, West Antarctica 11 p1689 N84-21013
Weathered stony meteorites from Victoria Land, Antarctica, as possible guides to rock weathering on Mars 13 p2085 N84-23509
Salts in the dry valleys of Antartica 13 p2085 N84-23510
Planetary geomorphology field studies: Iceland and Antarctica 13 p2086 N84-23514
US Geological Survey Polar Research Symposium. Abstracts with program
[USGS-CIRC-911] 14 p2160 N84-23934
Antarctic mapping and international coordination 14 p2160 N84-23935
Configuration of eastern Gondwanaland 14 p2160 N84-23936
Mineral resources of Antarctica 14 p2160 N84-23937
Speculations on the petroleum resources of Antarctica 14 p2160 N84-23938
Planned marine geophysical geological surveys of the Wilkes Land and Ross Sea margins 14 p2160 N84-23939
Satellite image atlas of glaciers: The Polar regions 14 p2161 N84-23940
Wind, waves and swell in the Antarctic marginal ice zone by SEASAT radar altimeter 14 p2161 N84-23941
Surveying in Antarctica during the International Geophysical Year 14 p2161 N84-23942
The Duffek intrusion of Antarctica and a survey of its minor metals related to possible resources 14 p2161 N84-23943
Crystallization of the Duffek intrusion, Antarctica 14 p2161 N84-23944
Geophysical investigations of the Dufek intrusion and the surrounding region 14 p2161 N84-23945
Geology of the Neptune Range, Antarctica 14 p2162 N84-23946
Proterozoic to mesozoic mobile-belt geology, Pensacola Mountains, Antarctica 14 p2162 N84-23947
Paleomagnetic studies in Antarctica 14 p2162 N84-23950
Mars-analog studies in Wright and Victoria Valleys, Antarctica 14 p2163 N84-23951
An isotopic and chemical study of Lake Vanda and Don Juan Pond, Antarctica 14 p2163 N84-23952
Climatic significance of lacustrine deposits around Lake Vanda and Don Juan Pond, Antarctica 14 p2163 N84-23953
Program for mapping Antarctica 14 p2163 N84-23954
The use of satellite technology in the search for meteorites in Antarctica aut 01Meunier, Tony K. 14 p2163 N84-23955
Glacological and geological studies of Antarctica with satellite remote sensing technology 14 p2163 N84-23956
Modeling the movement at the polar ice cap at the South Pole 14 p2164 N84-23957
MEM spectrum analysis of snow densities 15 p2353 N84-25117
Snow storm with strong wind in Antarctica 15 p2353 N84-25118
Some psychological consequences of prolonged social isolation 15 p2376 N84-25257
Department of Housing and Urban Development-Independent Agencies Appropriation Act, 1985 16 p2568 N84-26480
Satellite remote sensing over ice 17 p2719 N84-27308
Matrix partitioning and EOF/principal component analysis of Antarctic Sea ice brightness temperatures
[NASA-TM-83916] 17 p2721 N84-27319
Antarctic Meteorite Newsletter, volume 7, number 2: Sample requests and allocations
[NASA-TM-85385] 18 p2953 N84-28714
Overseas programs 19 p3038 N84-29272
Synoptic meteorology in Antarctica
[INPE-3201-NTE/222] 23 p3800 N84-34095
A scientific visit to the Institute of Polar Study of Japan
[INPE-3161-NTE/221] 23 p3801 N84-34097

A study of antarctic remote site automatic weather station data (1980-81) from the ross ice shelf area
[AD-A143738] 23 p3802 N84-34105
ANTARCTICA
U ANTARCTIC REGIONS
ANTENNA ARRAYS
NT LINEAR ARRAYS
NT STEERABLE ANTENNAS
NT YAGI ANTENNAS
Research on algorithms for adaptive array antennas
[AD-A131064] 01 p0072 N84-10469
On the odd-symmetry of minimum phase-only perturbations
[AD-A130514] 01 p0131 N84-10860
A FORTRAN computer program to compute the radiation pattern of an array-fed paraboloid reflector
[AD-A131060] 02 p0209 N84-11363
Performance analysis of a three-dimensional microwave lens in a cylindrical array scanning application
[AD-A131691] 03 p0360 N84-12345
Simultaneous nulling in the sum and difference patterns of a monopulse antenna
[AD-A131865] 03 p0361 N84-12347
Nulling with limited degrees of freedom
[AD-A132276] 04 p0521 N84-13424
Adaptive array behavior with periodic phase modulated interference
[AD-A132229] 04 p0521 N84-13427
An evaluation of the broadband direction finding capabilities of array signal processing techniques
05 p0665 N84-14368
Research in adaptive beamforming for satellite communications
[AD-A133733] 05 p0668 N84-14396
Research on adaptive antenna techniques 5
[AD-A133676] 05 p0669 N84-14398
Phase-only nulling at symmetric pattern locations
[AD-A133128] 06 p0822 N84-15361
Aperture efficiency considerations in the convolution synthesis of symmetrical hexagonal arrays
[AD-A133367] 06 p0824 N84-15369
Issues critical to the application of adaptive array antennas to missile seekers
[AD-A133401] 06 p0824 N84-15371
Contending with jamming in decametric waves in an adaptive system of all-directional antennas
06 p0868 N84-15653
Spaceborne Imaging Radar Symposium
[NASA-CR-173186] 07 p0987 N84-16390
Solid state transmitters for spaceborne radars
07 p0988 N84-16398
Advanced adaptive antenna techniques
[AD-A134300] 07 p0993 N84-16434
Channel tracking errors and the adaptive multiple-beam antenna
[AD-A134596] 07 p0994 N84-16443
Multifrequency synthetic aperture radar antenna comparison study — for remote sensing
[NASA-CR-171736] 08 p1143 N84-17434
Cylindrical microstrip array: C-band beacon antenna array with 48 rectangular radiating elements fed in-phase
[AD-A135144] 08 p1144 N84-17442
Studies in fin-line antenna design for phased array applications
[AD-A135255] 08 p1144 N84-17444
Handbook for broadband isotropic antenna system. Volume 1: Operation manual
[PB84-101948] 08 p1153 N84-17510
DOA location accuracy of a multibeam antenna system
[AD-A136386] 09 p1298 N84-18487
The performance of an LMS (Least Mean Square) adaptive array with frequency hopped signals
[AD-A136461] 09 p1298 N84-18489
Perturbations on the reception characteristics of antennas on Diego Garcia due to the presence of a GEODSS site
[AD-A136107] 09 p1303 N84-18520
Effects of mutual coupling on the performance of adaptive arrays
[AD-A136083] 09 p1309 N84-18560
Enhanced radio frequency carrier margin improvements for an array of receiving systems with unequal predetection signal-to-noise ratios 10 p1475 N84-19637
Closed loop adaptive control of a 4.0 gigaHertz reactively steered microstrip array - experimental results
[AD-A137523] 10 p1486 N84-19717
The 30-GHz monolithic receive module
[NASA-CR-168326] 11 p1642 N84-20737
Correcting feed displacements in a space fed lens antenna
[AD-A137702] 11 p1643 N84-20743
Pattern nulling by reflector shaping
[AD-A138049] 12 p1806 N84-21773
Buried antenna analysis at VHF. Part 1: The buried horizontal electric dipole
[AD-A138068] 12 p1806 N84-21774
Optimal design of an antenna array
[FTZ-454-TBR-38-E] 12 p1808 N84-21789
Microstrip analysis techniques
[AD-A137972] 12 p1811 N84-21804
Research Trends in Military Communications
[AD-A138229] 13 p1975 N84-22821
Adaptive array combined with spread spectrum in communications 13 p1976 N84-22825
A digital adaptive array processing algorithm for communications 13 p1977 N84-22834
Focal region characteristics of focused microwave array antennas
[AD-A138557] 13 p1982 N84-22867
Study and design of a cylindrical lens array antenna for wideband electronic scanning
[AD-A138808] 13 p1983 N84-22875
The study of microstrip antenna arrays and related problems
[NASA-CR-173534] 14 p2136 N84-23807
Effect of space environment on space-based radar phased-array antenna (A0133) 15 p2271 N84-24638
Pattern deformation of scalar antenna arrays due to near field backscatter
[LFD-210] 15 p2318 N84-24913
Prediction of field strengths near HF transmitters
[AD-B078278] 15 p2319 N84-24917
Adaptive arrays for satellite communications
[NASA-CR-173548] 15 p2320 N84-24924
On the problem of cylindrical array radiation through inhomogeneous dielectric layer
17 p2631 N84-26831
Statistics of field of multistage phased antenna array
17 p2632 N84-26834
Radiochannel with curved antenna utilizing three-dimensional excitation 17 p2632 N84-26836
A comment on some drawbacks of monostatic radars
17 p2686 N84-27106
Characteristics of Sunset radar
17 p2690 N84-27131
The mobile Sousy-Doppler radar: Technical design and first results 17 p2693 N84-27152
Delay line and mutual coupling considerations for MST radar antenna arrays 17 p2694 N84-27157
Review of specific antenna configurations: An estimate of cost and performance versus frequency for a simple (10 Lambda)-2 clear-air radar antenna array
17 p2694 N84-27158
Data processing techniques used with MST radars: A review 17 p2694 N84-27159
Adaptive techniques for troposcatter
[AD-A142226] 19 p3008 N84-29066
Grating lobe characteristics of arrays with uniformly illuminated contiguous subarrays
[AD-A142332] 19 p3009 N84-29072
Proceedings of the Antenna Applications Symposium, volume 1
[AD-A142003] 19 p3014 N84-29104
Antenna applications and system engineering
[AD-P003401] 19 p3014 N84-29105
Integration of monolithic microwave integrated circuits into phased array antenna systems
[AD-P003403] 19 p3014 N84-29107
A wide band 44 GHz printed circuit conformal array
[AD-P003404] 19 p3014 N84-29108
Development of scanning dipole array
[AD-P003405] 19 p3014 N84-29109
The design of a low loss light-weight s-band phase shifter
[AD-P003406] 19 p3015 N84-29110
A compact fully overlapping subarray antenna
[AD-P003407] 19 p3015 N84-29111
Geodesic cone antenna
[AD-P003408] 19 p3015 N84-29112
An experimental investigation of the improvement in the reception of TM (Transverse Magnetic)-polarized LF (Low-Frequency) waves with a two-element spaced array
[AD-A142478] 20 p3175 N84-30159
Propagation loss in electrostatically variable SAW delay lines
[AD-A142433] 20 p3178 N84-30183
Nulling in array patterns with orthogonal analytic cancellation beams
[AD-A142719] 20 p3178 N84-30188
Adaptive multibeam antenna array
21 p3377 N84-31430
Design of short-wave absorption lines
21 p3377 N84-31433
The 20 and 30 GHz MMIC technology for future space communication antenna system
[NASA-TM-83745] 21 p3382 N84-31460
Proceedings of the Antenna Applications Symp., volume 2
[AD-A142754] 21 p3383 N84-31467
Analysis of directivity as a function of scan angle for planar arrays of radiating slots
[AD-P003503] 21 p3383 N84-31471
Conformal array analysis
[AD-P003504] 21 p3384 N84-31472
Phase error effects on the radiation patterns of space-fed planar phased arrays
[AD-P003505] 21 p3384 N84-31473
Wideband microstrip ring radiator
[AD-P003507] 21 p3384 N84-31475
Moebius r-2R lens
[AD-P003511] 21 p3385 N84-31479
Multiple source DF (Direction Finding) signal processing: An experimental system
[AD-P003515] 21 p3385 N84-31483
Solution of some additional electromagnetic problems by the discrete convolution method
[AD-A143056] 21 p3387 N84-31493
The behavior of very large short pulse antennas
[DE84-012372] 21 p3388 N84-31500
Effect of spatial decorrelation on nulling performance of linear adaptive array
[AD-A143013] 21 p3400 N84-31570
Angle resolution of wideband signals received by two slightly diverse linear antenna arrays
22 p3565 N84-32582
Relations between algorithms of adaptive optimization of antenna arrays and algorithms of optimum detection of multidimensional stochastic signal
22 p3566 N84-32588
Symbol-stream combiner: Description and demonstration plans 22 p3574 N84-32632
Antenna performance verification at launch site. A feasibility study on preflight performance testing of stripline slot arrays mounted on a rocket
[AD-A143266] 22 p3577 N84-32653
Monolithic integrated antenna systems
[AD-A143184] 22 p3586 N84-32708
Tactical high frequency array antennas
[AD-D011095] 22 p3587 N84-32717
Development of a 611 MHz feed for a 9-meter reflector
[NASA-TM-86300] 23 p3730 N84-33641
Reducing grating lobes due to subarray amplitude tapering
[AD-A143644] 23 p3730 N84-33644
A 360-degree scanning antenna with cylindrical array of slotted waveguides
[AD-D011189] 24 p3893 N84-34653
Monolithic microwave integrated circuit devices for active array antennas
[NASA-CR-173981] 24 p3897 N84-34675
A new adaptive antenna system for coherent signals and interference
[AD-A144355] 24 p3898 N84-34683
ANTENNA COMPONENTS
NT ANTENNA COUPLERS
NT ANTENNA FEEDS
NASTRAN structural model for the large 64-meter antenna pedestal. Part 2: Improved model
04 p0519 N84-13412
Mirror antenna dual-band lightweight mirror design
[AD-A138113] 12 p1806 N84-21776
Evolution from a hinge actuator mechanism to an antenna deployment mechanism for use on the European large communications satellite (L-SAT/OLYMPUS)
15 p2347 N84-25084
Around-a-mast quadrifilar microstrip antenna
[AD-D011051] 22 p3571 N84-32617
Electronic Switching Spherical Array (ESSA) antenna systems
[NASA-TM-86127] 22 p3572 N84-32621
Potential surface improvements by bump removal for 64-m antenna 22 p3573 N84-32627
ANTENNA COUPLERS
NT COUPLING CIRCUITS
NT DIPLEXERS
Delay line and mutual coupling considerations for MST radar antenna arrays 17 p2694 N84-27157
ANTENNA DESIGN
CW (Continuous Wave) antenna design and testing
[AD-A131291] 02 p0210 N84-11369
Computer model for a circular symmetric cavity with application for lens antennas
[FOA-C-30332-E] 02 p0211 N84-11380
The Performance of Antennas in Their Operational Environment
[AGARD-LS-131] 03 p0363 N84-12367
Scale modelling and full scale measurement techniques with particular reference to antennas in their operational environments 03 p0364 N84-12368

Interaction of antennas with masts under special consideration of the sensitivity and nonlinear effects in ship borne receiving systems 03 p0364 N84-12371
Influence of the airframe on the performance of antennas for avionics 03 p0364 N84-12372
Numerical modeling techniques for half-space (ground) problems 03 p0365 N84-12374
Numerical modelling methods for predicting antenna performance on aircraft 03 p0365 N84-12375
Effects of nonlinear loads on antennas and scatterers 03 p0365 N84-12376
Technology for large space systems: A bibliography with indexes
[NASA-SP-7046(09)] 04 p0488 N84-13204
Aerials for use in television outside broadcasts
[BBC-RD-1983/12] 05 p0665 N84-14373
Phased-array-fed antenna configuration study. Volume 1: Technology assessment
[NASA-CR-168231] 07 p0991 N84-16423
Phased-array-fed antenna configuration study, volume 2
[NASA-CR-168232] 07 p0991 N84-16424
A wideband corner-reflector antenna for 240 to 400 MHz
[AD-A134281] 07 p0992 N84-16433
SAPIENS MEMO 5: The mechanical design of the EMP-simulator SAPIENS
[FOA-C-30320-A3] 08 p1106 N84-17192
Study on large, ultralight long-life structures in space, phase 2C
[TM-EKR3] 08 p1120 N84-17284
Multifrequency synthetic aperture radar antenna comparison study — for remote sensing
[NASA-CR-171736] 08 p1143 N84-17434
Studies in fin-line antenna design for phased array applications
[AD-A135255] 08 p1144 N84-17444
A program for computer-controlled impedance measurement within the microwave range — antennas
[FOA-C-30330-E3] 08 p1146 N84-17460
Perturbations on the reception characteristics of antennas on Diego Garcia due to the presence of a GEODSS site
[AD-A138107] 09 p1303 N84-18520
Investigation of new concepts for designing millimetre-wave antennas
[AD-A137350] 10 p1479 N84-19663
Construction concept for erecting an offset-fed antenna
[NASA-TM-85774] 11 p1623 N84-20626
Analysis of rectangular microstrip antennas
[NASA-TP-2276] 11 p1642 N84-20735
Pattern nulling by reflector shaping
[AD-A138049] 12 p1806 N84-21773
Mirror antenna dual-band lightweight mirror design
[AD-A138113] 12 p1806 N84-21776
Modeling antennas near to and penetrating a lossy interface
[DE84-004785] 12 p1806 N84-21786
Optimal design of an antenna array
[FTZ-454-TBR-38-E] 12 p1808 N84-21789
Experimental spherical near field antenna test facility, phase 3. Volume 2: Study of an offset reflector antenna with a sagging feed support
[S-179-01-VOL-2] 12 p1809 N84-21794
Geometric modeling of large space antenna deployment 12 p1876 N84-22225
Study of wind scatterometer antenna for ERS-1. Volume 1: Executive summary report
[Y/A-3360] 13 p2017 N84-23060
Study of windscatterometer antenna for ERS-1
[MIX/A-3188] 13 p2018 N84-23061
NASA/Howard University Large Space Structures Institute
[NASA-CR-173425] 14 p2244 N84-24476
Stabilization of a flexible body (hoop-column) antenna by feedback control law 14 p2245 N84-24478
Dynamics and control of flexible orbiting systems 14 p2245 N84-24481
MLS/Airplane system design. RF component design
[NASA-CR-172339] 15 p2259 N84-24567
Antenna tracking mechanism for geostationary satellites 15 p2348 N84-25091
The mobile Sousy-Doppler radar: Technical design and first results 17 p2693 N84-27152
Design considerations for MST radar antennas 17 p2693 N84-27153
Directivity and spacing for the antenna elements 17 p2693 N84-27154
Full versus limited versus no steerability 17 p2693 N84-27155
Analysis and programming for electromagnetic applications
[AD-A142313] 19 p3009 N84-29071
Dipole arrays with sector-shaped patterns for applications in mobile radio communications
[FI-454-TBR-34] 19 p3009 N84-29076
Fundamental design issues for monolithic phased arrays
[AD-P003402] 19 p3014 N84-29106
The design of a low loss light-weight s-band phase shifter
[AD-P003406] 19 p3015 N84-29110
A compact fully overlapping subarray antenna
[AD-P003407] 19 p3015 N84-29111
The mechanical design of a high-power, dual frequency, millimeter-wave antenna feed system
[AD-P003409] 19 p3015 N84-29113
Earth coverage corrugated horns (44.5 GHz and 20.7 GHz)
[AD-P003410] 19 p3015 N84-29114
Advances in spiral antenna technology
[AD-P003411] 19 p3015 N84-29115
Designing antennas to price; or the economics of antenna design
[AD-P003412] 19 p3015 N84-29116
An experimental investigation of the improvement in the reception of TM (Transverse Magnetic)-polarized LF (Low-Frequency) waves with a two-element spaced array
[AD-A142478] 20 p3175 N84-30159
Television transmitting antenna of decimeter band system based on tubes 720 and 1020 mm in diameter 21 p3377 N84-31431
Adaptive antennas for tropospheric radio relay lines 21 p3377 N84-31432
Phase light range finder 21 p3380 N84-31447
Reflector antennas with low sidelobes, low cross polarization, and high aperture efficiency
[NASA-CR-174670] 21 p3383 N84-31464
Broadband microstrip matching techniques
[AD-P003506] 21 p3384 N84-31474
Broadband cavity-backed slot using printed circuit technology
[AD-P003508] 21 p3384 N84-31476
Moebius r-2R lens
[AD-P003511] 21 p3385 N84-31479
Synthesis of antennas with weak superdirectivity 22 p3565 N84-32581
Around-a-mast quadrifilar microstrip antenna
[AD-D011051] 22 p3571 N84-32617
The Telecommunications and Data Acquisition Report
[NASA-CR-173885] 22 p3572 N84-32622
Optimization of antenna structure design 22 p3572 N84-32624
Structural design of a vertical antenna boresight 18.3 by 18.3-m planar near-field antenna measurement system
[NASA-TM-83781] 22 p3597 N84-32783
Characteristics and capacities of the NASA Lewis Research Center high precision 6.7- by 6.7-m planar near-field scanner
[NASA-TM-83785] 22 p3598 N84-32789
Criteria for nearly omnidirectional radiation patterns for printed antennas
[AD-A143662] 23 p3731 N84-33646
Development of a slotted waveguide array panel for SAR antenna: Electrical design and testing
[IEC-MO-80/11] 23 p3732 N84-33656
A 360-degree scanning antenna with cylindrical array of slotted waveguides
[AD-D011189] 24 p3893 N84-34653

ANTENNA FEEDS

A compact Q-K/band dual frequency feed horn
[AD-A130258] 01 p0063 N84-10416
Computer model for a circular symmetric cavity with application for lens antennas
[FOA-C-30332-E] 02 p0211 N84-11380
A wideband corner-reflector antenna for 240 to 400 MHz
[AD-A134281] 07 p0992 N84-16433
Correcting feed displacements in a space fed lens antenna
[AD-A137702] 11 p1643 N84-20743
Experimental spherical near field antenna test facility, phase 3. Volume 2: Study of an offset reflector antenna with a sagging feed support
[S-179-01-VOL-2] 12 p1809 N84-21794
Microstrip analysis techniques
[AD-A137972] 12 p1811 N84-21804
The mechanical design of a high-power, dual frequency, millimeter-wave antenna feed system
[AD-P003409] 19 p3015 N84-29113
Computer analysis of phased array far-field patterns for non-symmetrical feed networks
[AD-P003502] 21 p3383 N84-31470
Feed error effects on lens performance
[AD-P003513] 21 p3385 N84-31481
Evaluation of microstrip radiators as feeds for reflector antenna — satellite antenna
[ERA-83-0056] 23 p3732 N84-33655
Feed displacement correction in a space fed lens antenna
[AD-D011155] 23 p3742 N84-33722

ANTENNA FIELDS

U ANTENNA RADIATION PATTERNS

ANTENNA RADIATION PATTERNS

NT SIDELOBES

A computer program for the prediction of search radar performance
[AD-A131080] 01 p0067 N84-10436
General 3rd Airborne antenna radiation pattern code users manual
[AD-A130359] 01 p0121 N84-10790
On the odd-symmetry of minimum phase-only perturbations
[AD-A130514] 01 p0131 N84-10860
Geometric models, antenna gains, and protection ratios as developed for BC SAT-R2 conference software
[NASA-TM-83381] 02 p0208 N84-11358
Radiation patterns of an antenna mounted on the off-mid section of an ellipsoid
[AD-A130956] 02 p0209 N84-11362
A FORTRAN computer program to compute the radiation pattern of an array-fed paraboloid reflector
[AD-A131060] 02 p0209 N84-11363
On the assessment of errors due to antenna pattern imperfections: Executive summary — satellite-borne imaging microwave radiometer
[TUD-R-253] 02 p0210 N84-11376
Offset-reflector with horn feed array as an experimental sensor for radiometric measurements
[DFVLR-FB-83-16] 02 p0211 N84-11379
Approximate formulas for the far fields and gain of open-ended rectangular waveguide
[PB83-233999] 02 p0212 N84-11384
The use of a beam space representation and nonlinear programming in phase-only nulling
[AD-A131365] 02 p0272 N84-11779
Simultaneous nulling in the sum and difference patterns of a monopulse antenna
[AD-A131865] 03 p0361 N84-12347
RF performance of a proposed L-band antenna system 04 p0519 N84-13410
Nulling with limited degrees of freedom
[AD-A132276] 04 p0521 N84-13424
Advanced Hough transform implementations
[AD-A132522] 04 p0589 N84-13890
Analysis of airborne antenna pattern and mutual coupling and their effects on adaptive array performance 05 p0672 N84-14416
Radiation patterns of an antenna mounted on the mid-section of an ellipsoid
[AD-A133203] 06 p0823 N84-15365
Earth coverage corrugated horns (44.5 GHz and 20.7 GHz)
[AD-A133241] 06 p0823 N84-15366
Millimeter wave guiding structures and antennas
[AD-A133528] 06 p0825 N84-15376
Contending with jamming in decametric waves in an adaptive system of all-directional antennas 06 p0868 N84-15653
A wideband corner-reflector antenna for 240 to 400 MHz
[AD-A134281] 07 p0992 N84-16433
Advanced adaptive antenna techniques
[AD-A134300] 07 p0993 N84-16434
Advanced adaptive antenna techniques
[AD-A134301] 07 p0993 N84-16435
Airborne antenna pattern calculations
[NASA-CR-173284] 08 p1143 N84-17436
Cylindrical microstrip array: C-band beacon antenna array with 48 rectangular radiating elements fed in-phase
[AD-A135144] 08 p1144 N84-17442
Antenna pattern measurements to characterize the out-of-band behavior of reflector antennas
[AD-A136199] 09 p1304 N84-18525
Adaptive cancellation techniques
[AD-A136946] 10 p1481 N84-19680
Deterministic and random phase noise of oscillation — synthetic aperture radar
[DFVLR-MITT-83-11] 10 p1483 N84-19695
Analysis of rectangular microstrip antennas
[NASA-TP-2276] 11 p1642 N84-20735
UHF (Ultra-High Frequency) propagation measurements
[AD-A137837] 11 p1643 N84-20741
The characteristics of iris-fed millimeterwave rectangular microstrip patch antennas
[PB84-134634] 11 p1648 N84-20775
Pattern nulling by reflector shaping
[AD-A138049] 12 p1806 N84-21773

Buried antenna analysis at VHF. Part 1: The buried horizontal electric dipole
[AD-A138068] 12 p1806 N84-21774
An experimental study of cylindrical antennas radiating in or near a lossy half space
[AD-A138206] 12 p1807 N84-21779
Experimental spherical near field antenna test facility, phase 3. Volume 2: Study of an offset reflector antenna with a sagging feed support
[S-179-01-VOL-2] 12 p1809 N84-21794
Far field radiation patterns from open ended oversized circular waveguides and identification of multimode outputs of gyrotrons
[IPF-83-5] 12 p1911 N84-22454
Focal region characteristics of focused microwave array antennas
[AD-A138557] 13 p1982 N84-22867
Extension of finitely conducting Earth-Image-Theory results to any range
[AD-A139144] 14 p2139 N84-23827
Prediction of field strengths near HF transmitters
[AD-B078278] 15 p2319 N84-24917
Secondary pattern computation of an arbitrarily shaped main reflector
[NASA-TM-85527] 16 p2481 N84-25909
Reduction of the strut radiation of reflector antennas
[FI-454-TBR-35] 16 p2482 N84-25918
Statistics of field of multistage phased antenna array 17 p2632 N84-26834
The spaced antenna drift method 17 p2687 N84-27107
An evaluation of the accuracy of some radar wind profiling techniques 17 p2687 N84-27109
On the measurement of vertical velocity by MST radar 17 p2687 N84-27111
Accuracy of vertical velocity determination 17 p2687 N84-27112
Effects of geophysical noise on the accuracy of wind determination 17 p2687 N84-27113
Radar interferometer measurements 17 p2688 N84-27114
Techniques for studying gravity waves and turbulence 17 p2688 N84-27115
The MST radar technique: A tool for investigations of turbulence spectra 17 p2688 N84-27117
Existence of a persistent background of turbulence 17 p2688 N84-27118
Determination of vertical and horizontal wavelengths of gravity waves 17 p2688 N84-27119
School of Electrical Engineering. 17 p2694 N84-27156
Delay line and mutual coupling considerations for MST radar antenna arrays 17 p2694 N84-27157
Review of specific antenna configurations: An estimate of cost and performance versus frequency for a simple (10 Lambda)-2 clear-air radar antenna array 17 p2694 N84-27158
Decoding: Codes and hardware implementation 17 p2694 N84-27160
Observing atmospheric water in storms with the Nimbus 7 scanning multichannel microwave radiometer 17 p2716 N84-27291
Backscatter from a corner reflector close to a two-antenna radar system
[FOA-C-30355-E1] 18 p2830 N84-27968
Near field effects in radiometer measurements
[FOA-C-30357-E1] 18 p2830 N84-27969
Three-element radiointerferometer with very long baselines 19 p2974 N84-28853
Dipole arrays with sector-shaped patterns for applications in mobile radio communications
[FI-454-TBR-34] 19 p3009 N84-29076
Nulling in array patterns with orthogonal analytic cancellation beams
[AD-A142719] 20 p3178 N84-30188
Finite-element-analysis of fields radiated from ICRF antenna
[IPPJ-675] 20 p3301 N84-30965
Hoop/column antenna RF verification model. Volume 2: Analysis and correlation
[NASA-CR-172413] 21 p3382 N84-31462
Hoop/column antenna: RF verification model. Volume 1: Test results
[NASA-CR-172412] 21 p3382 N84-31463
Reflector antennas with low sidelobes, low cross polarization, and high aperture efficiency
[NASA-CR-174670] 21 p3383 N84-31464
Phase error effects on the radiation patterns of space-fed planar phased arrays
[AD-P003505] 21 p3384 N84-31473
A dual-ported, dual-polarized spherical near-field probe
[AD-P003514] 21 p3385 N84-31482
Antenna pattern characteristics of fine-steered pencil beams
[AD-P003516] 21 p3385 N84-31484
Solution of some additional electromagnetic problems by the discrete convolution method
[AD-A143056] 21 p3387 N84-31493
Synthesis of antennas with weak superdirectivity 22 p3565 N84-32581
Antenna performance verification at launch site. A feasibility study on preflight performance testing of stripline slot arrays mounted on a rocket
[AD-A143266] 22 p3577 N84-32653
Monolithic integrated antenna systems
[AD-A143184] 22 p3586 N84-32708
Structural design of a vertical antenna boresight 18.3 by 18.3-m planar near-field antenna measurement system
[NASA-TM-83781] 22 p3597 N84-32783
Criteria for nearly omnidirectional radiation patterns for printed antennas
[AD-A143662] 23 p3731 N84-33646
Radio frequency distribution assembly, operations and maintenance manual
[AD-A143864] 23 p3731 N84-33649
Diffraction of waves by bed boundaries in an open borehole 23 p3776 N84-33939

ANTENNAS
NT AIRCRAFT ANTENNAS
NT CASSEGRAIN ANTENNAS
NT CYLINDRICAL ANTENNAS
NT DIPOLE ANTENNAS
NT DIRECTIONAL ANTENNAS
NT GRAVITATIONAL WAVE ANTENNAS
NT HELICAL ANTENNAS
NT HORN ANTENNAS
NT LENS ANTENNAS
NT LOG PERIODIC ANTENNAS
NT LOOP ANTENNAS
NT MICROWAVE ANTENNAS
NT MISSILE ANTENNAS
NT MONOPOLE ANTENNAS
NT MONOPULSE ANTENNAS
NT MULTIPLE BEAM INTERVAL SCANNERS
NT OMNIDIRECTIONAL ANTENNAS
NT PARABOLIC ANTENNAS
NT RADAR ANTENNAS
NT RADIO ANTENNAS
NT RHOMBIC ANTENNAS
NT SATELLITE ANTENNAS
NT SLOT ANTENNAS
NT SPACECRAFT ANTENNAS
NT SPHERICAL ANTENNAS
NT SPIRAL ANTENNAS
NT STEERABLE ANTENNAS
NT WAVEGUIDE ANTENNAS
NT YAGI ANTENNAS
The dynamics and control of large flexible space structures, 6
[NASA-CR-174450] 01 p0027 N84-10173
CW (Continuous Wave) antenna design and testing
[AD-A131291] 02 p0210 N84-11369
Calculation of ground wave attenuation over irregular, inhomogeneous, layered media using PROGRAM WAGNER 03 p0364 N84-12369
Numerical modeling techniques for antennas 03 p0365 N84-12373
Microwave monolithic integrated circuit development for future spaceborne phased array antennas
[NASA-TM-83518] 04 p0517 N84-13399
RF performance of a proposed L-band antenna system 04 p0519 N84-13410
NASTRAN structural model for the large 64-meter antenna pedestal. Part 2: Improved model 04 p0519 N84-13412
External wave-launcher study
[DE84-001124] 04 p0523 N84-13441
Millimeter wave guiding structures and antennas
[AD-A133526] 06 p0825 N84-15376
Numerical electromagnetics code. Method of moments. User's guide supplement for NEC-3 for modeling buried wires
[DE84-002195] 06 p0825 N84-15382
Broadband base isolated asymmetrically fed VHF antenna 06 p0827 N84-15393
Characteristics of RF lightning emission at 2 GHz and 250 MHz 06 p0929 N84-16039
Shuttle Imaging Radar: A/B sensors 07 p0987 N84-16395
Microstrip antennas for SAR applications 07 p0987 N84-16396
Experimental study of a dielectric antenna at the frequency range of 76-80 GHz
[AD-A134429] 07 p0993 N84-16438
A study of microwave and millimeter-wave quasi-optical planar mixers
[AD-A135252] 08 p1144 N84-17443
Implementation of large antennas for deep space mission support 10 p1475 N84-19636
Computer assessment of electromagnetic means of detecting approaching cruise missile
[DE84-005115] 10 p1482 N84-19687
Computation of linear communication antennas
[PB84-143502] 11 p1645 N84-20755
The characteristics of iris-fed millimeterwave rectangular microstrip patch antennas
[PB84-134634] 11 p1648 N84-20775
Modeling antennas near to and penetrating a lossy interface
[DE84-004785] 12 p1808 N84-21786
Microstrip analysis techniques
[AD-A137972] 12 p1811 N84-21804
SETI science working group report
[NASA-TP-2244] 12 p1869 N84-22178
Multiple access adaptive antennas 13 p1976 N84-22823
Enhancement of spread-spectrum systems through adaptive antenna techniques 13 p1976 N84-22824
Spread spectrum networks 13 p1977 N84-22831
The study of microstrip antenna arrays and related problems
[NASA-CR-173534] 14 p2136 N84-23807
Lumped element and leaky-wave antennas for millimeter waves
[AD-A139512] 14 p2140 N84-23833
Stabilization of a flexible body (hoop-column) antenna by feedback control law 14 p2245 N84-24478
MLS/Airplane system design. RF component design
[NASA-CR-172339] 15 p2259 N84-24567
Latching mechanism for deployable-restowable columns
[NASA-CASE-LAR-13169-1] 15 p2343 N84-25063
DSS 13 microprocessor antenna controller 16 p2479 N84-25897
Representative electromagnetic field intensities near the Clam Lake, Wisconsin and Republic, Michigan ELF (Extremely Low Frequency) facilities
[AD-A140796] 17 p2654 N84-26972
Modification of the Propagation Measurement File (PMF)
[PB84-169796] 17 p2655 N84-26980
Interference problems for nongeostationary satellites
[NASA-CR-173717] 18 p2802 N84-27760
USSR Report: Electronics and electrical engineering
[JPRS-UEE-84-002] 18 p2822 N84-27915
High-sensitivity correlation receiver for radio interferometry 18 p2823 N84-27924
Analysis and programming for electromagnetic applications
[AD-A142313] 19 p3009 N84-29071
Demountable coaxial electrical connector for in-line amplifiers
[AD-D011074] 19 p3017 N84-29128
Advanced ICRF launchers for heating and current drive in large Tokamaks
[DE84-009092] 19 p3108 N84-29750
An experimental investigation of the improvement in the reception of TM (Transverse Magnetic)-polarized LF (Low-Frequency) waves with a two-element spaced array
[AD-A142478] 20 p3175 N84-30159
Computer-generated movie on the short pulse electromagnetic behavior of wire objects
[DE84-012032] 20 p3175 N84-30162
Performance of Beverage antennas at low angles
[DE84-011163] 20 p3175 N84-30164
USSR report: Electronics and electrical engineering
[JPRS-UEE-84-008] 21 p3376 N84-31427
Television transmitting antenna of decimeter band system based on tubes 720 and 1020 mm in diameter 21 p3377 N84-31431
Adaptive antennas for tropospheric radio relay lines 21 p3377 N84-31432
On the quasi-periodic microstrip snake antenna with metal trough backing
[AD-P003510] 21 p3384 N84-31478
Using information on tangential target motion in space-time signal processing 21 p3487 N84-32101
USSR report: Electronics and electrical engineering
[JPRS-UEE-84-006] 22 p3565 N84-32580
Around-a-mast quadrifilar microstrip antenna
[AD-D011051] 22 p3571 N84-32617
The 64-m antenna automatic subreflector focusing controller 22 p3573 N84-32628
On the modeling of electromagnetically coupled microstrip antennas: The printed strip dipole
[AD-A143927] 23 p3731 N84-33651
Frequency independent acoustic antenna
[AD-D011194] 24 p3963 N84-35093

ANTHROPOMETRY
Development of an interactive computer program to produce body description data
[AD-A133720] 06 p0897 N84-15822

Aircrew Automated Escape Systems (AAES) In-service Usage Data Analyses, volume 1
[AD-A134633] 08 p1100 N84-17154
Military Medical Journal, no. 5, May 1983
[L-2404] 11 p1693 N84-21047
User's guide for COMBIMAN programs (Computerized Biomechanical Man-Model), version 6
[AD-A139139] 14 p2184 N84-24066
Anthropometric changes at high altitude
[AD-A140311] 16 p2535 N84-26277
Anthropometric and mass distribution characteristics of the adult female, revised
[AD-A143096] 21 p3457 N84-31939

ANTIBIOTICS
Obtaining yeast vector marked by mutation of multiple antibiotic resistance 23 p3806 N84-34133

ANTIBODIES
Modelling of multi-signal immobilized immunogens 17 p2741 N84-27401
Methane producing bacteria: Immunological characterization 19 p3064 N84-29438

ANTIDOTES
Animal models of human performance: Structural and functional approaches to extrapolating from animal to man
[AD-P003292] 18 p2908 N84-28442

ANTIFERROMAGNETISM
Commensurability, chaos, and the devil's staircase
[DE83-013280] 03 p0454 N84-12987
Structural phase transitions at high pressure: Quantum effects
[DE84-005724] 11 p1745 N84-21390

ANTIFOULING
An assessment of ablative organotin antifouling (AF) coatings
[AD-A134019] 05 p0658 N84-14326
Atomic and molecular processes in discharge cleaning plasmas 11 p1736 N84-21322

ANTIFRICTION BEARINGS
NT BALL BEARINGS
NT ROLLER BEARINGS
Modeling of the transmissibility through rolling-element bearings under radial and moment loads 01 p0089 N84-10580
Magnetic bearing design for high speed momentum wheels 09 p1296 N84-18474
Spin analysis of concentrated traction contacts
[NASA-TM-83713] 17 p2675 N84-27042

ANTIGENS
Labeled cells as research, diagnostic and therapeutic tools 15 p2429 N84-25589
Genetic control and phenotypic correction of cellular immune response to H-antigen of Salmonella typhimurium 17 p2740 N84-27400
Methane producing bacteria: Immunological characterization 19 p3064 N84-29438

ANTIKNOCK ADDITIVES
The determination of research octane number of gasoline fuels by octane analyzer
[AD-A132427] 04 p0509 N84-13335
Residual shale-oil/diesel-engine operating compatibility program
[DE84-000133] 04 p0545 N84-13587
1981 CRC octane number requirement survey
[AD-A133369] 06 p0812 N84-15288

ANTIMATTER
NT ANTINEUTRINOS
NT ANTIPARTICLES
NT ANTIPROTONS
NT POSITRONS
Cosmic ray antimatter and baryon symmetric cosmology
[NASA-TM-83058] 04 p0622 N84-14103
Matter antimatter domains: A possible solution to the CP domain wall problem in the early universe
[NASA-TM-86100] 15 p2425 N84-25565
Balloon test project: Cosmic Ray Antimatter Calorimeter (CRAC)
[NASA-TM-77461] 23 p3750 N84-33772

ANTIMISSILE MISSILES
A new concept for guiding missiles with an application to the ground-air system 21 p3350 N84-31253

ANTIMISTING FUELS
An assessment of the use of antimisting fuel in turbofan engines
[NASA-CR-168081] 01 p0052 N84-10332
Antimisting kerosene: Base fuel effects, blending and quality control techniques
[NASA-CR-174509] 07 p0980 N84-16351
Atomization and combustion performance of antimisting kerosene and jet fuel
[NASA-CR-174507] 07 p0980 N84-16353
Antimisting fuel breakup and flammability
[NASA-CR-174508] 07 p0981 N84-16354
Characterization and degradation studies on synthetic polymers for aerospace application
[NASA-CR-166597] 21 p3355 N84-31284

ANTIMONIDES
NT INDIUM ANTIMONIDES

ANTIMONY
Effect of antimony on lead-acid battery negative electrode
[DE83-014680] 03 p0369 N84-12404
Research into the electrodeposition of antimony
[BLL-OA-TRANS-3112-(6196.3)] 09 p1305 N84-18533
Embrittlement of 4340 type steel by liquid lead and antimony and lead-antimony solutions
[AD-A143785] 23 p3718 N84-33567

ANTIMONY ALLOYS
Maintenance free lead acid battery with high cycle life and a new type of grid
[BMFT-FB-T-83-156] 05 p0677 N84-14453
InAsSb strained-layer superlattices for long wavelength detector applications
[DE84-001055] 06 p0924 N84-16004
Theoretical and experimental study of solid phase miscibility gaps in 3/4 quaternary alloys
[DE84-004391] 12 p1915 N84-22478
Sulfur and antimony segregation to creep cavity surfaces in Ni and an FCC Fe-Ni-Cr alloy
[DE84-011458] 20 p3154 N84-30028

ANTIMONY COMPOUNDS
NT INDIUM ANTIMONIDES

ANTINEUTRINOS
Low energy neutrino physics
[DE84-002856] 08 p1230 N84-18037

ANTIOXIDANTS
Replacement of PBNA in HB and HC polymers used in SRM propellant and liner
[NASA-CR-170936] 03 p0355 N84-12311
Time-temperature studies of high temperature deterioration phenomena in lubricant systems: Synthetic ester lubricants
[AD-A135464] 08 p1166 N84-17594
Behaviour of four non-migratory antioxidants in solid polyethylene insulation 11 p1721 N84-21228
Perfluoroalkylether substituted phenyl phosphines
[AD-D011122] 22 p3558 N84-32529
Stabilized unsaturated polyesters
[NASA-CASE-NPO-16103-1] 22 p3558 N84-32530
Dihalo-monaphospha-s-triazines and their derivatives
[AD-D011175] 23 p3714 N84-33545
Halo-substituted diphospha-s-triazines and their derivatives
[AD-D011176] 23 p3714 N84-33546

ANTIPARTICLES
NT ANTINEUTRINOS
NT ANTIPROTONS
NT POSITRONS
Baryon-antibaryon angular correlations in quark jets
[DE83-015923] 03 p0435 N84-12854
The case for antiparticles in the extragalactic cosmic radiation
[NASA-TM-86070] 11 p1760 N84-21487

ANTIPROTONS
Intense antiproton source for a 20 TeV collider
[DE83-012878] 01 p0142 N84-10934
Nucleon-nucleon interactions and polarized-beam (both proton and antiproton) facilities at LAMPF 2
[DE83-017215] 03 p0436 N84-12860
Cryogenically cooled broad-band GaAs field-effect transistor preamplifier
[DE84-004166] 10 p1487 N84-19722

ANTIREFLECTION COATINGS
Raising the surface damage threshold of neutral solution processed BK-7 by pulse laser irradiation
[DE83-012660] 02 p0225 N84-11477
Photodetachment neutralizer development. Laser-resonator study. Volume 1: Summary
[DE84-001682] 06 p0851 N84-15547
Chemical treatment of silicate glasses for producing anti-reflection surfaces
[DE84-005865] 11 p1732 N84-21299
Solar-array-materials passive LDEF experiment (A0171) 15 p2274 N84-24656
Laser damage in porous-silica antireflection films
[DE84-009535] 19 p3030 N84-29216
Investigation of sol-gel antireflection coatings
[DE84-008381] 19 p3030 N84-29218
Recent damage results for antireflection coatings at 355 NM
[DE84-011560] 21 p3371 N84-31388
Wide spectrum antireflective coating for laser fusion systems
[DE84-013211] 22 p3601 N84-32814
Process research of non-CZ silicon material
[NASA-CR-173954] 23 p3787 N84-34017

ANTISEPTICS
Operation and maintenance of selected ozone and ultraviolet disinfection systems
[PB84-180124] 20 p3265 N84-30719

ANTISHIP MISSILES
F-16 Penguin anti-ship missile integration 03 p0315 N84-12059
Bank-to-Turn cruise missile terminal guidance and control law comparison
[AD-A132595] 05 p0629 N84-14136

ANTISTATIC DEVICES
U STATIC DISCHARGERS

ANTISUBMARINE WARFARE
Tactical decision aids which quantify judgment
[AD-P002889] 13 p1979 N84-22850
Use of helicopters to develop operational concepts for V/STOL (vertical and short takeoff and landing) aircraft in naval missions
[AD-A139354] 14 p2105 N84-23624
Flight test techniques employed in the Nimrod MR MK 2 weapon system performance trials 24 p3849 N84-34410

ANTISUBMARINE WARFARE AIRCRAFT
NT P-3 AIRCRAFT
NT S-3 AIRCRAFT
NT SH-3 HELICOPTER

ANTITANK MISSILES
Target track and stabilization for manportable direct fire missiles
[AD-A136219] 09 p1271 N84-18306
Real-time simulation in a terrain model: Mathematical description
[FOA-C-56041-H2] 15 p2390 N84-25343

ANVIL CLOUDS
Applications of the AVE-SESAME data sets to mesoscale studies
[NASA-CR-3819] 21 p3446 N84-31866

AO-1 AIRCRAFT
U OV-1 AIRCRAFT

AOIPS
U ATMOSPHERIC & OCEANOGRAPHIC INFORM SYS

AORTA
Experimental and clinical research on the effectiveness of ultrasound in vascular surgery
[ISSN-0208-5658] 19 p3064 N84-29442

APATITES
U MINERALS

APERTURES
NT SYNTHETIC APERTURES
Electromagnetic coupling to an infinite wire through a small aperture of arbitrary shape
[AD-A130425] 01 p0062 N84-10407
Aperture averaging of scintillation for space-to-ground optical communication applications
[AD-A132198] 04 p0521 N84-13428
Effects of a finite aperture on the inverse born approximation
[DE83-016086] 04 p0596 N84-13930
Rotationally symmetric arrays of apertures on conducting spherical surfaces 05 p0673 N84-14419
Aperture efficiency considerations in the convolution synthesis of symmetrical hexagonal arrays
[AD-A133367] 06 p0824 N84-15369
Optimized baffle and aperture placement in neutral beamlines
[DE84-003746] 09 p1388 N84-19062
Discussion of moment method codes with emphasis on aperture coupling
[DE84-005116] 11 p1644 N84-20751
Development of short-distance optical transmission cord 11 p1727 N84-21268
Pattern nulling by reflector shaping
[AD-A138049] 12 p1806 N84-21773
The effects of aperture antennas after signal propagation through anisotropic ionized media
[AD-A138286] 12 p1807 N84-21781
Dipole aperture and superconductor requirements
[DE84-006011] 12 p1916 N84-22483
Advanced optical and thermal technologies for aperture control 16 p2517 N84-26156
Applications of Riemann-Hilbert problem techniques to electromagnetic coupling through apertures
[DE84-009532] 19 p3009 N84-29073
Aperture studies of the BNL colliding beam accelerator with reduced superperiodicity
[DE84-002854] 19 p3103 N84-29713
Shock wave absorber having apertured plate
[DE84-011271] 20 p3203 N84-30345
Dual aperture dipole magnet with second harmonic component
[DE84-011305] 20 p3285 N84-30856
The Spot of Arago and its role in aberration analysis
[AD-A141983] 20 p3299 N84-30952
Synthesis of offset dual shaped subreflector antennas for control of Cassegrain aperture distributions
[AD-P003517] 21 p3385 N84-31485

Computer programs for electromagnetic coupling between a conducting body and an aperture in an infinite conducting plane
[AD-A142975] 21 p3386 N84-31491

APEXES
Development of partially fluorinated resin apex seals
[NASA-CR-174706] 22 p3603 N84-32828

APHELIONS
Comet nucleus sample return mission
[NASA-CR-173501] 13 p1936 N84-22592

APL (PROGRAMMING LANGUAGE)
APL (A Programming Language) TUTOR: An on-line instructional facility
[AD-A140117] 15 p2393 N84-25359

APNEA
U RESPIRATION

APOGEE BOOST MOTORS
Separation and staging mechanisms for the Indian SLV-3 launch vehicle 15 p2349 N84-25095
Dual mode propulsion system engine testing for INTELSAT 20 p3136 N84-29913

APOLLO FLIGHTS
NT APOLLO 17 FLIGHT

APOLLO 17 FLIGHT
Ultraviolet studies of interstellar matter 23 p3839 N84-34356

APPALACHIAN MOUNTAINS (NORTH AMERICA)
Synthesis of regional crust and upper-mantle structure from seismic and gravity data
[E84-10061] 06 p0864 N84-15631
Application of Heat Capacity Mapping Mission data to regional geologic analysis for mineral and energy resource evaluation
[E84-10078] 07 p1021 N84-16625
Broken-formations of the Pulaski thrust sheet near Pulaski, Virginia 23 p3794 N84-34061
Forms of large folds in the Central Appalachians, Pennsylvania 23 p3795 N84-34066

APPARATUS
U EQUIPMENT

APPENDAGES
NT ARM (ANATOMY)
NT HAND (ANATOMY)
NT LEG (ANATOMY)

APPLICATION
U UTILIZATION

APPLICATIONS EXPLORER SATELLITES
Heat Capacity Mapping Radiometer (HCMR) data processing algorithm, calibration, and flight performance evaluation
[E84-10153] 17 p2709 N84-27248

APPLICATIONS OF MATHEMATICS
Proceedings of the NASA Symposium on Mathematical Pattern Recognition and Image Analysis
[E84-10032] 03 p0392 N84-12557
Applied mathematical sciences research at Argonne
[DE83-3014268] 03 p0426 N84-12788
Derivations of a prime ring which satisfy a polynomial identity
[AD-A135435] 08 p1220 N84-17963
Functioning of mathematics in institutes for applied scientific research
[NLR-MP-82056-U] 10 p1572 N84-20300
Computational modeling and mathematics applied to the physical sciences
[DE84-008252] 14 p2214 N84-24301
New algorithms for near neighbor searching
[AD-A142404] 20 p3280 N84-30824
National Science Foundation, volume 1
[PB84-193234] 20 p3316 N84-31061

APPLICATIONS PROGRAMS (COMPUTERS)
Mission analysis: Definition of orbital geometry of artificial satellites
[INPE-2843-TDL/141] 02 p0184 N84-11194
FORTH: An unconventional programming language
[INPE-2894-PRE/413] 04 p0578 N84-13813
Project management and quality assurance in a multiapplication environment — software quality 05 p0723 N84-14745
Primer for the Transportable Applications Executive
[NASA-TM-86062] 09 p1367 N84-18921
Generalized Exponential Markov (GEM) updating procedure for AFOS (Automation of Field Operations and Services)
[PB84-154822] 14 p2180 N84-24060
Design of an integrated software system based on the relational data base model
[AD-A140628] 17 p2752 N84-27470

APPROACH
NT AIRBORNE RADAR APPROACH
NT INSTRUMENT APPROACH
Simulator study of flight characteristics of a large twin-fuselage cargo transport airplane during approach and landing
[NASA-TP-2183] 03 p0337 N84-12190
A comparison of two position estimate algorithms that use ILS localizer and DME information. Simulation and flight test results
[NASA-TP-2281] 08 p1102 N84-17165
Towards a comprehensive approach to the analysis of categorical data
[AD-A135967] 09 p1383 N84-19034
Part-task training strategies in simulated carrier landing final approach training
[AD-A136670] 10 p1549 N84-20156
Tandem fan applications in advanced STOVL fighter configurations
[NASA-TM-83689] 15 p2261 N84-24579
Cleared for the visual approach: Human factor problems in air carrier operations
[NASA-CR-166573] 17 p2603 N84-26679
Selected advanced aerodynamic and active control concepts development
[NASA-CR-3489] 18 p2786 N84-27683
Investigation of the technology of the microwave landing system Time Reference Scanning Beam (TRSB)
[BMFT-FB-W-84-008] 19 p2962 N84-28774

APPROACH AND LANDING TESTS (STS)
Flying the orbiter in the approach/landing phase 01 p0027 N84-10170

APPROACH CONTROL
The FAA (Federal Aviation Administration) air traffic activity, fiscal year 1982
[PB83-228460] 01 p0008 N84-10048
Lateral runway approach guidance using Loran-C 02 p0168 N84-11105
General aviation single pilot IFR autopilot study 03 p0312 N84-12035
A simulator evaluation of an automatic terminal approach system 03 p0312 N84-12037
Advanced symbology for general aviation approach to landing displays 03 p0313 N84-12039
Simulation analysis and derivation of accuracy requirements for future terminal area navigation. Part 1: Single aircraft analysis
[BMFT-FB-W-83-035-PT-1] 12 p1768 N84-21535
Simulation analysis and derivation of accuracy requirements for future terminal area navigation. Part 2: Multi aircraft analysis
[BMFT-FB-W-83-036-PT-2] 12 p1769 N84-21536
Automated rendezvous and docking: A parametric study
[NASA-TP-2314] 14 p2115 N84-23677
FAA (Federal Aviation Administration) air traffic activity FY 1983
[AD-A142493] 20 p3127 N84-29861

APPROACH INDICATORS
Advanced symbology for general aviation approach to landing displays 03 p0313 N84-12039

APPROPRIATIONS
Authorizing appropriations to the National Aeronautics and Space Administration for fiscal year 1985
[H-REPT-98-629] 11 p1753 N84-21441
National Aeronautics and Space Administration Authorization Act, 1985 11 p1753 N84-21443
National Aeronautics and Space Administration Authorization Act, 1985
[H-REPT-98-629] 11 p1753 N84-21444
National Aeronautics and Space Administration Authorization Bill, 1984
[S-REPT-98-455] 14 p2249 N84-24506
National Aeronautics and Space Administration Authorization Act
[S-REPT-98-455] 14 p2249 N84-24507
Department of Housing and Urban Development Appropriations Bill, 1984
[H-REPT-98-803] 14 p2249 N84-24508
Department of Housing and Urban Development-Independent Agencies Appropriation Bill, 1985 15 p2420 N84-25530
National Aeronautics and Space Administration 15 p2420 N84-25531
Department of Housing and Urban Development-Independent Agencies Appropriations Act, 1985 15 p2420 N84-25532
National Aeronautics and Space Administration research and development 15 p2420 N84-25533
Department of Housing and Urban Development-Independent Agencies Appropriations Bill, 1985
[S-REPT-98-506] 16 p2568 N84-26476
National Aeronautics and Space Administration 16 p2568 N84-26477
Department of Housing and Urban Development-Independent Agencies Appropriation Act, 1985
[S-REPT-98-506] 16 p2568 N84-26478
National Aeronautics and Space Administration: Research and development foi HC 16 p2568 N84-26479
Department of Housing and Urban Development-Independent Agencies Appropriation Act, 1985 16 p2568 N84-26480
National Aeronautics and Space Administration 16 p2568 N84-26481
Making appropriations for the Department of Housing and Urban Development, and for sundry independent agencies, boards, commissions, corporations, and offices for the fiscal year ending September 30, 1985, and for other purposes
[H-REPT-98-867] 17 p2772 N84-27603
National Aeronautics and Space Administration 17 p2772 N84-27604
Authorizing appropriations from the National Aeronautics and Space Administration
[H-REPT-98-873] 17 p2772 N84-27605
Report of accomplishments under the airport improvement program
[AD-A142444] 20 p3132 N84-29869
Federal funds for research and development, fiscal years 1981, 1982 and 1983, volume 31
[PB84-189596] 20 p3314 N84-31045
Federal funds for research and development, fiscal years 1982, 1983 and 1984. Volume 32: Detailed statistical tables
[PB84-189604] 20 p3314 N84-31048

APPROXIMATION
NT BORN APPROXIMATION
NT BORN-OPPENHEIMER APPROXIMATION
NT CHEBYSHEV APPROXIMATION
NT EDDINGTON APPROXIMATION
NT FINITE DIFFERENCE THEORY
NT FINITE ELEMENT METHOD
NT HARTREE APPROXIMATION
NT LEAST SQUARES METHOD
NT NEWTON-RAPHSON METHOD
NT NUMERICAL DIFFERENTIATION
NT PADE APPROXIMATION
NT PARTICLE IN CELL TECHNIQUE
NT RAYLEIGH-RITZ METHOD
NT RELAXATION METHOD (MATHEMATICS)
NT SOMMERFELD APPROXIMATION
Asymptotic methods in reliability theory: A review
[AD-A130163] 01 p0092 N84-10600
Forward multiple scattering corrections as function of detector field of view
[AD-A130631] 01 p0106 N84-10686
Future directions in large-scale scientific computing
[DE83-013229] 01 p0124 N84-10807
Documentation for FDCALC and FDCORE
[DE83-013886] 01 p0124 N84-10808
High resolution schemes and the entropy condition
[NASA-CR-172218] 01 p0128 N84-10836
On complex rational approximation by interpolation at preselected nodes
[AD-A130526] 01 p0131 N84-10855
Solution manifolds and submanifolds of parametrized equations and their discretization errors
[AD-A130186] 01 p0131 N84-10857
The role of aeroelasticity in the preliminary design of helicopter rotors 02 p0172 N84-11130
Ultrasound tomography by Galerkin or moment methods
[AD-A131408] 02 p0266 N84-11747
A numerical method for solving by approximation an advanced integro-differential equation
[INPE-2826-PRE/379] 02 p0279 N84-11830
Approximation methods in multidimensional filter design and related problems encountered in multidimensional system design
[AD-A131316] 02 p0280 N84-11836
Explicit, nearly optimal, linear rational approximation with preassigned poles
[AD-A131392] 02 p0280 N84-11837
Progress on ultrasonic flaw sizing in turbine-engine rotor components: Bore and web geometries
[DE83-018081] 03 p0333 N84-12167
Techniques for locating a remote HF transmitter from single-site measurements
[AD-A132014] 03 p0360 N84-12342
Numerical calculations of turbulent recirculating heat transfer beyond two-dimensional back-steps and sudden pipe expansions 03 p0374 N84-12439
Inverse born approximation: Exact determination of shape of convex voids
[DE83-017685] 03 p0385 N84-12512
Bending of transversally loaded orthotropic rectangular and sector plates 03 p0387 N84-12520
Disjunctive programming and a hierarchy of relaxations for discrete optimization problems
[AD-A132004] 03 p0425 N84-12784
New soluble approximation to Fokker-Planck equations
[DE83-016210] 03 p0426 N84-12791

Method of operator splitting or fractional steps and its applications to fluid-dynamic modelling
[DE84-000800] 04 p0534 N84-13511
A study of magnetotelluric fields in laterally inhomogeneous Earth models 05 p0671 N84-14413
Optimal approximation algorithms for digital filter design 05 p0673 N84-14420
Estimation of parameters for truncated distributions
[AD-A132605] 05 p0735 N84-14827
A collocation method for computing eigenvalues and eigenfunctions of the Laplacian
[AD-A132827] 05 p0737 N84-14839
Asymptotic theory of an unseparated supersonic turbulent boundary layer at a compression corner 06 p0780 N84-15112
Numerical electromagnetics code. Method of moments. User's guide supplement for NEC-3 for modeling buried wires
[DE84-002195] 06 p0825 N84-15362
Introduction to the FORTRAN 14 programs Duvorol and Contact for the solution of 3 D elastostatic half-space contact problems with and without friction
[PB83-147421] 06 p0898 N84-15833
Optimal reconstructions and n-widths
[AD-A133576] 06 p0902 N84-15853
Numerical methods for tracking interfaces
[DE84-001730] 06 p0902 N84-15854
The parabolic approximation for sound propagation in stratified moving media 06 p0907 N84-15893
A lifting surface computer code with jet-in-crossflow interference effects. Volume 1: Theoretical description
[NASA-CR-166524] 07 p0947 N84-16147
Approximation dispersion equations for thin walled liquid filled tubes — blood flow
[MEAH-25] 07 p1005 N84-16520
Comment on the energy variation method
[CSIR-TWISK-293] 07 p1059 N84-16862
Splines and a three-body separable expansion for scattering problems
[CSIR-TWISK-291] 07 p1059 N84-16863
On the convergence of Galerkin approximation schemes for second-order hyperbolic equations in energy and negative norms
[CSIR-TWISK-280] 07 p1059 N84-16867
On perturbations of stability inequalities with an application to finite difference approximations of ODE's
[AD-A134535] 07 p1062 N84-16889
A characterization of an element of best simultaneous approximation
[AD-A134542] 07 p1063 N84-16893
Projection pursuit regression: Some mathematics
[AD-A134544] 07 p1063 N84-16894
An approximation formula for a class of Markov reliability models
[NASA-CR-172290] 07 p1068 N84-16935
Photoemission spectroscopy and the optical properties of surface
[PB84-100445] 08 p1127 N84-17331
Regular operator approximation theory
[HMI-B-389] 08 p1226 N84-18008
Convergence of generalized MUSCL schemes
[NASA-CR-173356] 09 p1372 N84-18959
Structure and stability of finite dimensional approximations for functional differential equations
[AD-A136324] 09 p1373 N84-18966
Corrected diffusion approximations and their applications
[AD-A136384] 09 p1374 N84-18974
Simplified confidence intervals for an awkward nonlinear model
[AD-A136403] 09 p1374 N84-18975
Rounding errors in some recursive methods used in computational probability
[PB84-124734] 09 p1379 N84-19013
Error measurement of a deterministic approximation for stochastic production planning problem
[INPE-2768-PRE/341] 09 p1381 N84-19017
Approximating the distribution of a dynamic risk portfolio
[AD-A136039] 09 p1383 N84-19035
Convergence of generalized MUSCL schemes
[NASA-CR-172306] 10 p1420 N84-19286
Simple approximate models for a class of structures 10 p1515 N84-19921
Aircraft generation equipment emissions estimator (AGEEE)
[AD-A136829] 10 p1532 N84-20031
Newton like: Minimal residual methods applied to transonic flow calculations
[NASA-CR-172305] 10 p1568 N84-20275
Norm estimates for a maximal right inverse of the divergence operator in spaces of piecewise polynomials
[AD-A136889] 10 p1573 N84-20309
Entropy condition satisfying approximations for the full potential equations of transonic flow
[NASA-TM-85751] 11 p1601 N84-20485
Development of a complete model of turbulence revisited
[AD-A138145] 12 p1816 N84-21836
An operator calculus for surface and volume modeling 12 p1869 N84-22180
Volumetric representation for object model acquisition 12 p1870 N84-22189
A 2-step bilinear filtering approximation
[AD-A138350] 12 p1894 N84-22338
Parameterization and approximation methods in feedback theory with applications in high gain, fast sampling and cheap optimal control
[RR-241] 13 p2031 N84-23167
Big omega versus the wild functions
[MC-IW-239/83] 13 p2035 N84-23200
Quotient algebras for logics of imprecision
[AD-P002330] 14 p2189 N84-24121
In the labyrinth of many valued logics
[AD-P002331] 14 p2190 N84-24122
Riemann solvers, the entropy condition and high resolution difference approximations
[AD-P002945] 14 p2198 N84-24185
A Finite Integral Transform (FIT) method for differential equations having asymptotic solutions
[AD-P002958] 14 p2200 N84-24198
On the Taylor approximation of control systems
[AD-A139255] 14 p2212 N84-24285
An approximate Newton method for coupled nonlinear systems
[AD-A139589] 14 p2214 N84-24300
Best approximation in L sub p (W) by algebraic polynomials
[CTH-MATH-1983-20] 14 p2215 N84-24307
Conical flows with leading edge vortices 15 p2333 N84-25013
Geometrical transformation of binary images
[FOA-C-30342-E1] 15 p2397 N84-25380
Approximations for expected values of normal order statistics with an application to goodness-of-fit
[AD-A139970] 15 p2400 N84-25401
Piecewise monotone interpolation and approximation with generalized polynomials 15 p2402 N84-25416
An algorithm for maximum likelihood estimation using an efficient method for approximating sensitivities
[NASA-TP-2311] 16 p2451 N84-25717
Treatment of the discontinuity in the spin-up problem with impulsive start
[AD-A139682] 16 p2485 N84-25940
Modification to shock fitting program
[NASA-TM-86097] 16 p2548 N84-26353
Approximating multiple ITO integrals with Band limited processes
[AD-A140417] 16 p2550 N84-26364
Criteria for accuracy of rotary transformers 17 p2635 N84-26857
Preconditioned iterative methods for nonselfadjoint or indefinite elliptic boundary value problems
[AD-A140777] 17 p2758 N84-27511
Comment on corrected diffusion approximations in certain random walk problems'
[AD-A140923] 17 p2759 N84-27519
Approximating the level probabilities in order restricted inference: The simple tree ordering
[AD-A140684] 17 p2760 N84-27525
Method for summing Gaussian beams in isotropic elasticity theory 18 p2862 N84-28171
Corrected diffusion approximations to first passage times
[AD-A140940] 18 p2925 N84-28548
The approximation theory for the p-version of the finite element method, part 2
[AD-A140952] 18 p2925 N84-28550
Finite element methods for the solution of problems with rough input data
[AD-A140955] 18 p2925 N84-28552
Approximating the probabilities of detecting and of hitting targets and the probability distribution of the number of trials along the visible portions of curves in the plane subject to a Poisson shadowing process
[AD-A141327] 18 p2927 N84-28563
Inversion of the acoustic plane wave reflection response of a layered ocean bottom
[AD-A132794] 18 p2928 N84-28570
Rapidly convergent algorithms for 3-D tandem and stellarator equilibria in the paraxial approximation
[DE84-009688] 18 p2933 N84-28603
Secondary flow theory in straight and annular cascades 19 p3022 N84-29163
LANDSAT-D investigations in snow hydrology
[E84-10156] 19 p3039 N84-29277
The generation of a mass point model from surface gravity data
[AD-A142327] 19 p3054 N84-29382
A new minimax algorithm
[NASA-CR-172382] 19 p3074 N84-29503
The duality between expected utility and penalty in stochastic linear programming
[AD-A141393] 19 p3075 N84-29513
Estimation of coefficients and boundary parameters in hyperbolic systems
[NASA-CR-172389] 19 p3082 N84-29562
Applications of the variational integral in iterative numerical solutions to the stationary heat equations
[AD-A141091] 19 p3083 N84-29563
Numerical solutions of non-uniquely solvable integral equations using finite rank modifications
[AD-A142149] 19 p3089 N84-29610
A maximum-likelihood approach to image segmentation by texture
[AD-A142323] 19 p3090 N84-29619
New approaches to robust confidence intervals for location: A simulation study
[AD-A142248] 19 p3094 N84-29648
A numerical scheme for the identification of hybrid systems describing the vibration of flexible beams with tip bodies
[NASA-CR-172388] 19 p3095 N84-29655
Width of nonlinear resonance
[DE84-009862] 19 p3102 N84-29706
On the two-body problem with variable masses 19 p3117 N84-29808
Analytical theory of the motion of the Galilean satellites of Jupiter: The first approximation 19 p3120 N84-29834
Approximation techniques for parameter estimation and feedback control for distributed models of large flexible structures
[NASA-CR-172411] 20 p3135 N84-29903
Computer-generated movie on the short pulse electromagnetic behavior of wire objects
[DE84-012032] 20 p3175 N84-30162
Accuracy of one approximate method for computing radiative fluxes in presence of broken clouds 20 p3225 N84-30491
Small-angle method in study of single and multiple scattering 20 p3225 N84-30492
A retrievable recipe for inverse t
[AD-A142557] 20 p3281 N84-30829
Calculation of ballistic focusing of ion beams
[DE84-012870] 20 p3297 N84-30934
Renormalized action improvements
[DE84-011810] 20 p3311 N84-31028
Optimal low-thrust transfers to geosynchronous orbit 21 p3348 N84-31240
On the controlled approximation order from certain spaces of smooth bivariate splines
[AD-A142868] 21 p3472 N84-32004
Spline approximation for retarded systems and the Ricatti equation
[AD-A142963] 21 p3473 N84-32010
Acoustic propagation in a thermally stratified atmosphere
[NASA-CR-173863] 21 p3491 N84-32121
A theoretical study of the energetics and dynamics of high energy inelastic collision processes
[AD-A142799] 21 p3497 N84-32163
Approximation models for electrodynamic systems in solid state millimetric wave devices 22 p3569 N84-32606
Numerical techniques for the prediction of flow induced orientation 22 p3591 N84-32743
On the finite element approximation of the stream function-vorticity equations
[AD-A143506] 22 p3594 N84-32758
BGRID: A block-structured grid generation code for wing sections
[NASA-CR-166317] 23 p3814 N84-34187
Rational-spline approximation with automatic tension adjustment
[NASA-TP-2366] 23 p3817 N84-34204
Supraconvergence and functions that sum to zero on cycles
[DE84-013889] 23 p3818 N84-34210
Research on self-generated stochastic motion
[AD-A144093] 23 p3820 N84-34225
Electrostatic equations for large scale plasma simulation studies
[AD-A143640] 23 p3828 N84-34277
An anisotropic lens for launching TEM waves on a conducting circular conical system
[AD-A144140] 24 p3893 N84-34656
A technique to approximate complex computer models: An approximation of the Teisberg Model
[AD-P003855] 24 p3940 N84-34940
Undetected error probability and throughput analysis of a concatenated coding scheme
[NASA-CR-173983] 24 p3945 N84-34977
On the estimation of the 1st-order autoregressive parameter
[AD-A144284] 24 p3950 N84-35014

The generic local time-optimal stabilizing controls in dimension 3
[AD-A144662] 24 p3952 N84-35027
Convergence of difference approximations of quasilinear evolution equations
[AD-A144694] 24 p3953 N84-35032
Impurity states in the presence of an interface
[DE84-701192] 24 p3967 N84-35123

APPROXIMATION METHODS
U APPROXIMATION

APSIDES
NT APHELIONS
NT PERIHELIONS

APTITUDE
Racial bias and predictive validity in testing for selection
[AD-A131830] 03 p0416 N84-12722
Radar training facility initial validation
[AD-A133220] 07 p1049 N84-16797
Massed practice: Does it change the statistical properties of performance tests?
[AD-A139338] 15 p2383 N84-25294
Microcomputer network for Computerized Adaptive Testing (CAT)
[AD-A140256] 16 p2546 N84-26341
Using interactive computing to expand intelligence testing: A critique and prospectus
[AD-A141657] 19 p3072 N84-29489

AQUARID METEOROIDS
Meteor showers effects in the low terrestrial ionosphere detected at VLF ionosonde and long distance propagation paths
[INPE-3242-PRE/588] 24 p3990 N84-35246

AQUATIC PLANTS
Method for treating wastewater using microorganisms and vascular aquatic plants
[NASA-CASE-NSTL-10] 03 p0406 N84-12654
Evaluation of spatial, radiometric and spectral Thematic Mapper performance for coastal studies
[E84-10093] 10 p1522 N84-19964
Aquatic plant control research program. Effects of endothall treatment on phosphorus concentration and community metabolism of aquatic communities
[AD-A141830] 19 p3052 N84-29370
Aboveground biomass estimation in a tidal brackish marsh using simulated Thematic Mapper spectral data
20 p3214 N84-30419
Parametric and nonparametric analysis of LANDSAT TM and MSS imagery for detecting submerged plant communities 20 p3215 N84-30424

AQUEOUS SOLUTIONS
Structure and properties of polymers and organosilanes adsorbed onto oxidized aluminum and titanium
[AD-A130753] 01 p0050 N84-10321
Sodium-sulfate solubilities in high-temperature (250 to 3740C) salt and acid solutions
[DE83-015813] 02 p0191 N84-11241
Stress-corrosion behavior of aluminum-lithium alloys in aqueous environments
[NASA-TM-85853] 02 p0193 N84-11256
Refractive index and equation of state of a shock-compressed aqueous solution of zinc chloride
[DE83-016302] 02 p0220 N84-11443
Potentiostatic investigation of the kinetics of the breakdown of the passivity of aluminium in aqueous medium
[BLL-OA-TRANS-3066-(6196.3)]
06 p0804 N84-15238
Spectroscopic studies on surface reactions between minerals and reagents in flotation systems
06 p0817 N84-15324
Thermodynamics of aqueous sodium chloride to 823 K and 1 kbar
[DE84-001841] 06 p0927 N84-16019
Small solute concentration differences determined by interferometry
[CSIR-CENG-424] 07 p0969 N84-16278
Density of sodium chloride solutions at high temperatures and pressures
[DE84-004883] 10 p1456 N84-19508
Thermal properties of binary aqueous solutions at high temperatures and high pressure
[BMFT-FB-T-83-217] 12 p1794 N84-21701
MEXAMS (Metals exposure analysis modeling system)
[PB84-157155] 12 p1799 N84-21736
Dispersion spectroscopy of optical electron transfer in solution
[AD-A139101] 14 p2121 N84-23713
Production of hydrogen from renewable resources
[DE84-000082] 14 p2132 N84-23780
Determining of surface oxide compositions on Alloy 600 using Rutherford backscattering
[DE84-002672] 15 p2299 N84-24797
Inner-sphere reorganization in optical electron transfer
[AD-A139722] 15 p2405 N84-25435
Anomalies in, and crystallization of supercooled water and aqueous solutions
[AD-A140582] 17 p2767 N84-27573
The vapor pressure of Salt-HCl-Water solutions below 0 C
[AD-A141184] 18 p2811 N84-27845
Capillary zone electrophoresis: Instrumentation and use with nonaqueous solvents
[DE84-010617] 18 p2812 N84-27854
Evaluation of 95 gpm inductors for aqueous film forming foam
[AD-A141242] 18 p2818 N84-27894
Determination of structural parameters from EXAFS (Extended X-ray Absorption Fine Structure): Application to solutions and catalysts
[AD-A142205] 19 p2989 N84-28942
Intergranular failures of Alloy 600 in high temperature caustic environments
[DE84-010890] 20 p3155 N84-30032
Mechanisms of intergranular failures in Alloy 600 in high temperature environments
[DE84-010514] 20 p3155 N84-30033
Dielectric breakdown distributions of large dielectric constant liquids
[DE84-013216] 22 p3548 N84-32461
Improvements in the process of dehydrating hydrazine by sodium hydroxide
[INPE-3198-PRE/561] 23 p3712 N84-33531
Dependence of rate of growth in aqueous corrosive medium on electrochemical conditions at tip of crack
24 p3871 N84-34530

AQUICULTURE
Aquaculture techniques: A production forecasting model for aquaculture systems
[PB83-221713] 01 p0112 N84-10730
Detecting long-term ecological effects in forests and food chains
[DE83-003469] 03 p0406 N84-12655
Artificial upwelling driven by salinity differences in the ocean
[DE84-000086] 15 p2374 N84-25244
Air pollution effects on aquatic ecosystems: Summary of a symposium
[PB84-185214] 20 p3239 N84-30562

AQUIFERS
Velocity plots and capture zones of pumping centers for ground-water investigations
[DE83-016618] 03 p0401 N84-12624
Initial operation of the compressed air experiment at Pittsfield, Illinois
[DE83-016930] 03 p0404 N84-12643
Adjoint sensitivity theory for steady-state ground-water flow
[DE84-003335] 09 p1337 N84-18732
Continuity and internal properties of Gulf Coast sandstones and their implications for geopressured fluid production
[DE84-004396] 10 p1526 N84-19996
Design, performance, and analysis of an aquifer thermal-energy-storage experiment using the doublet-well configuration
[DE84-001811] 10 p1529 N84-20019
Modeling of the regional hydraulics of the Rustler Formation
[DE84-005859] 11 p1672 N84-20910
Analysis of Sweet Lake geopressured-geothermal aquifer
[DE84-006053] 12 p1836 N84-21972
Relationship of regional water quality to aquifer thermal energy storage
[DE84-006649] 14 p2169 N84-23992
The development of a geopressured energy management information and analysis system in support of research planning: Third year
[PB84-174481] 16 p2511 N84-26116
Estimation of recharge in a small southern Arizona basin by means of hydrological, hydrochemical, and environmental isotope data
[PB84-159672] 20 p3230 N84-30527
Hydrogeology, digital solute-transport simulation, and geochemistry of the Lower Cretaceous aquifer system near Baltimore, Maryland 21 p3425 N84-31728

ARC DISCHARGES
A review of SCATHA satellite results: Charging and discharging 08 p1115 N84-17254
Arcing phenomena in high voltage fuses
[EUT-83-E-137] 10 p1489 N84-19736
Cathode degradation and erosion in high pressure arc discharges
[NASA-TM-83638] 13 p1942 N84-22631
Literature review of spacecraft charging
[AD-A140543] 16 p2458 N84-25761
Volatilization-excitation phenomena and efficiency of spectrochemical buffers in the analysis of geological samples. 1: The action of the mixture Li2CO3 graphite
[JEN-555] 17 p2729 N84-27369
Characteristics of arc currents on a negatively biased solar cell array in a plasma
[NASA-TM-83726] 18 p2807 N84-27824
Magnetic fluorescent lamp
[DE84-014231] 22 p3590 N84-32740

ARC HEATING
Iron and steel (selected articles)
[AD-A135576] 09 p1282 N84-18376

ARC JET ENGINES
Cathode degradation and erosion in high pressure arc discharges
[NASA-TM-83638] 13 p1942 N84-22631
Phenomenology of plasma engine cathodes at high current rates and low pressures
[NASA-TM-77729] 24 p3866 N84-34502

ARC LAMPS
Arc discharge convection studies: A Space Shuttle experiment 18 p2799 N84-27761

ARC MELTING
The part played by the skin in the denitration of metal during vacuum arc remelting
[BLL-M-35213-(5828.4)] 01 p0041 N84-10261
Tantalum-copper alloy and method for making
[DE84-011081] 20 p3155 N84-30037
A review of our present understanding of macrosegregation in ingots 24 p3883 N84-34601

ARC SPRAYING
Electromagnetic shielding of full-sized structures by metal arc spraying
[AD-A132883] 05 p0663 N84-14357
Arc spray fabrication of metal matrix composite monotape — high temperature fiber-reinforced superalloy composites
[NASA-CASE-LEW-13828-1] 08 p0798 N84-15203
Diamondlike flakes
[NASA-CASE-LEW-13837-2] 13 p1953 N84-22696

ARC WELDING
NT GAS TUNGSTEN ARC WELDING
Metallurgical aspects and mechanical properties of weld metal in automatic submerged arc welding
[BLL-RISLEY-TR-4875-(9091.9F)]
09 p1324 N84-18650
Generation, collection, and analysis of welding fumes
[PB84-116607] 09 p1326 N84-18663
Characterizations of preheated and non-preheated HY-80 steel weldments by transmission electron microscopy
[AD-A136966] 10 p1460 N84-19537
Introduction of productive welding and surfacing technological processes to production of nuclear powerplant equipment 12 p1787 N84-21655
Development of holographic interferometry for welding arc analysis
[DE84-005454] 13 p1994 N84-22940
Corrosion fatigue crack growth rates of weldments in Q1N steel
[AD-A141261] 18 p2814 N84-27864
Optical and electronic methods for weld arc viewing
[DE84-009731] 19 p3032 N84-29233
Characterization of submerged-arc and gas-metal-arc weldments in hY-100 steel
[AD-A141939] 20 p3196 N84-30298
Instrumentation for real-time ultrasonic sensing of arc welding characteristics
[DE84-012536] 21 p3414 N84-31649
Real-time ultrasonic sensing of arc welding processes
[DE84-005031] 21 p3415 N84-31657
Device for high frequency arc welding
24 p3869 N84-34522

ARCHAEOLOGY
Seismo-acoustic effects of sonic booms on archeological sites, Valentine Military Operations Area
[AD-A139581] 14 p2146 N84-23862
Evaluation of the use of thermal airborne prospection for archaeology during the last 10 years
23 p3769 N84-33890

ARCHES
Double arch mirror study. Part 1: Preliminary engineering report
[NASA-CR-166589-PT-1] 21 p3412 N84-31634

ARCHITECTURE
Human behavior 04 p0511 N84-13352
Space station needs, attributes and architectural options study. Volume 3: Requirements
[NASA-CR-173332] 09 p1266 N84-18267
Space station needs, attributes and architectural options study. Volume 4: Architectural options, subsystems, technology and programmatics
[NASA-CR-173331] 09 p1266 N84-18268
Space station needs, attributes and architectural options study. Final executive review
[NASA-CR-173335] 09 p1267 N84-18269
Space station needs, attributes and architectural options study. Final review executive summary briefing
[NASA-CR-173674] 09 p1267 N84-18272

Space station needs, attributes and architectural options. Volume 1: Executive summary NASA
[NASA-CR-172792] 09 p1269 N84-18292
Passive solar design procedures for Naval installations
[AD-A136329] 09 p1341 N84-18760
An investigation into the sand erosion technique as a means of determining the wind environment around buildings
[BU-294] 15 p2306 N84-24832
Cooling-load implications for residential passive solar heating systems 16 p2513 N84-26126
The DOE passive solar commercial buildings program: Preliminary results of performance evaluation
16 p2515 N84-26141
Field instrumentation for the passive solar commercial buildings monitoring program 16 p2515 N84-26142
Performance monitoring highlights of BERD programs
16 p2516 N84-26146
Development of an evaluation methodology for passive solar design tools 16 p2516 N84-26148
Advanced optical and thermal technologies for aperture control 16 p2517 N84-26156
Architecture earth-sheltered buildings: Design Manual 1.4
[AD-A140831] 17 p2629 N84-26820
Space station needs, attributes and architectural options: Architectural options and selection
[NASA-CR-173694] 18 p2804 N84-27793
A study of space station needs, attributes, and architectural options, volume 2, technical. Book 2: Mission implementation concepts
[NASA-CR-173690] 18 p2805 N84-27806
A study of space station needs, attributes and architectural options, volume 2, technical. Book 3: Economic benefits, costs and programmatics
[NASA-CR-173689] 18 p2805 N84-27807
Space station needs, attributes and architectural options. Volume 4, task 2 and 3: Mission implementation and cost
[NASA-CR-173715] 18 p2806 N84-27813
Space station needs, attributes and architectural options: Study summary
[NASA-CR-173692] 18 p2806 N84-27814
Daylight availability as a function of atmospheric conditions
[DE84-007973] 20 p3247 N84-30609
Electrochromic materials for the regulation of solar energy transmission through windows
[DE84-012165] 20 p3311 N84-31029
Mission description document, book 2
[NAS 1.15:86652-BK-2] 23 p3698 N84-33439
Space Station 23 p3701 N84-33456

ARCHITECTURE (COMPUTERS)

Communications Support Processor (CSP)
[AD-A130360] 01 p0064 N84-10419
Fault tolerant architectures for integrated aircraft electronics systems
[NASA-CR-172226] 01 p0119 N84-10769
Pringle: A parallel processor to emulate CHIP (configurable highly parallel) computers
[AD-A129152] 01 p0119 N84-10770
A distributed signal processing architecture
[AD-A130227] 01 p0119 N84-10771
S-1 uniprocessor architecture
[DE83-012344] 01 p0119 N84-10774
Directly executed languages
[AD-A130704] 01 p0122 N84-10794
A methodology for exploiting parallelism in the finite element process
[NASA-CR-172219] 01 p0127 N84-10831
A systolic architecture for singular value decomposition
[AD-A130098] 01 p0132 N84-10864
Parallel processor for fast event analysis
[DE83-014050] 02 p0271 N84-11770
A summary of research on microprocessor networks
[AD-A131325] 02 p0277 N84-11813
LLNL Basic Energy Sciences Program in numerical methods for partial differential equations
[DE83-016531] 02 p0283 N84-11852
Integrated powerplant control systems and potential performance benefits 03 p0316 N84-12063
High dynamic global positioning system receiver
[NASA-CASE-NPO-16171-1-CU]
03 p0330 N84-12151
Software voting in asynchronous NMR (N-Modular Redundancy) computer structures
[NASA-CR-174488] 03 p0418 N84-12732
Computer system design environment software development plan
[AD-A131651] 03 p0420 N84-12747
A microcomputer program package of the USAF stability and control DATCOM
[AD-A132143] 04 p0487 N84-13199
Issues in the design and implementation of Act2
[AD-A132326] 04 p0580 N84-13826
A technical overview of the National Software Works
[AD-A132320] 04 p0580 N84-13827
File migration in distributed computer systems
04 p0584 N84-13860
La Recherche Aerospatiale, Bimonthly Bulletin, no. 1982-3, 208/May-June 1982
[ESA-TT-771] 04 p0593 N84-13916
Fast convolution algorithms and associated VHSIC architectures
[AD-A133851] 05 p0674 N84-14432
An argument for soft layering of protocols
[AD-A133948] 05 p0718 N84-14708
Implementing an ADA kernel on NEBULA
[AD-A132745] 05 p0719 N84-14714
INTEL 432/670 Ada benchmark performance evaluation in the Multiprocessor/Multiprocess environment
[AD-A132774] 05 p0719 N84-14715
Memory intensive functional architecture for distributed computer control systems
[DE84-002579] 05 p0720 N84-14719
System specification for Ada integrated environment type A AIE(1)
[AD-A134080] 05 p0726 N84-14769
Vectorization of algorithms for solving systems of elliptic difference equations
[DE83-014125] 05 p0738 N84-14848
Advanced Concepts for Avionics/Weapon System Design, Development and Integration
[AGARD-CP-343] 06 p0768 N84-15034
System architecture: Key to future avionics capabilities 06 p0768 N84-15035
Certification experience of the Jaguar fly-by-wire demonstrator aircraft integrated flight control system
06 p0777 N84-15095
Multispectral Data Processing System (MDPS)
[AD-A133426] 06 p0896 N84-15816
Perspectives on oversight management of software development projects
[AD-A133404] 06 p0933 N84-16064
Processor architecture for airborne SAR systems
07 p0989 N84-16406
A fast, programmable hardware architecture for spaceborne SAR processing 07 p0989 N84-16409
C-3I local area networks: An assessment
[AD-A134194] 07 p0992 N84-16431
Multilevel semantic analysis and problem-solving in the flight-domain
[NASA-CR-173177] 07 p1050 N84-16804
Two fundamental issues in multiprocessing: The dataflow solution
[AD-A134239] 07 p1052 N84-16813
Integrated Computer-Aided Manufacturing (ICAM) architecture part 3. Volume 1: Architecture part 3: Accomplishments
[AD-A134249] 07 p1055 N84-16829
Accuracy considerations when using some minicomputers for scientific and engineering problems
[AD-A134141] 07 p1061 N84-16878
VLSI research
[AD-A134628] 08 p1151 N84-17491
EASAMS architecture for management and control systems 08 p1207 N84-17871
Distributed computing 08 p1208 N84-17874
Parallel computation 08 p1206 N84-17875
Performance evaluation and control of distributed computer communication networks
[AD-A135121] 08 p1215 N84-17928
Statistical data processing, system modeling and reliability
[AD-A135208] 08 p1223 N84-17984
Luneburg lens and optical matrix algebra research
[NASA-CR-172276] 08 p1231 N84-18047
Attitude, control and stabilization
09 p1268 N84-18281
Data management 09 p1269 N84-18287
Multi-dimensional signal processing research program
[AD-A135732] 09 p1302 N84-18511
Research in VLSI (Very Large Scale Integration) systems
[AD-A136413] 09 p1307 N84-18542
A versatile parallel image processor system
[AD-A136292] 09 p1365 N84-18910
Verification of hardware design correctness: Symbolic execution techniques and criteria for consistency
[AD-A136466] 09 p1365 N84-18912
A CRAY-Class multiprocessor simulator
[AD-A136555] 09 p1365 N84-18913
A multiprocessor emulation facility
[AD-A136094] 09 p1365 N84-18915
Adaptive machines: Examples of architecture, modeling and evaluation
[ENST-E-83009] 09 p1366 N84-18916
Abstract type oriented dynamic vertical migration
[AD-A135840] 09 p1367 N84-18926
The extension and application of global compaction techniques for horizontal scientific code
[AD-A135794] 09 p1368 N84-18934
Signal processing applications of systolic array technology (extended summary)
09 p1399 N84-19139
A parallel VLSI architecture for a digital filter using a number theoretic transform 09 p1400 N84-19141
Signal processing in high data rate environments. Design tradeoffs in the exploitation of parallel architectures and fast system clock rates. An overview
09 p1401 N84-19151
Impact of VLSI on modern signal processing
09 p1402 N84-19155
A systolic signal processor for recursive filtering
09 p1402 N84-19156
VLSI architectures for recognition of context-free languages 09 p1402 N84-19160
Concurrent VLSI architectures for two dimensional signal processing systems 09 p1402 N84-19162
VLSI architectures for pattern analysis and image database management 09 p1403 N84-19163
Functional and database architecture design
[AD-A136275] 09 p1403 N84-19169
Tracking and data acquisition system for the 1990's. Volume 1: Executive summary
[NASA-CR-175193] 10 p1433 N84-19369
Study of tracking and data acquisition system for the 1990's. Volume 4: TDAS space segment architecture
[NASA-CR-175212] 10 p1434 N84-19372
Tracking and data acquisition system for the 1990's. Volume 5: TDAS ground segment architecture and operations concept
[NASA-CR-175197] 10 p1434 N84-19373
Tracking Data Acquisition System (TDAS) for the 1990's. Volume 6: TDAS navigation system architecture
[NASA-CR-175198] 10 p1434 N84-19374
Bus interconnection in multiprocessor environment: The communication principle and the arbitration techniques
[ENST-E-83010] 10 p1482 N84-19689
Integrated Computer-Aided Manufacturing (ICAM) architecture. Part 3, volume 2: Procedures
[AD-A137422] 10 p1563 N84-20240
Benchmarking the selection and projection operations and ordering capabilities of relational database machines
[AD-A136776] 10 p1593 N84-20438
Radar signal processing architectures and algorithms in digital VLSI (Very Large Scale Integration)
[PB84-140110] 11 p1645 N84-20756
One solution to STAR-1100 in a dual machine environment
[DE83-017160] 11 p1704 N84-21109
Data flow computer architecture
[DE84-004198] 11 p1704 N84-21111
Design of array processor software for nonlinear structural analysis
[AD-A137767] 11 p1706 N84-21124
Software quality measurement for distributed systems. Volume 3: Distributed computing systems. Impact on software quality
[AD-A137957] 11 p1708 N84-21130
Architecture for a user interface management system
[DE84-003982] 11 p1710 N84-21146
Numerical methods for partial differential equations
[AD-A137624] 11 p1713 N84-21167
Open systems interconnection for the defence community 11 p1750 N84-21426
A study of optimal computer network architecture for digital avionics systems
[AD-A138151] 12 p1770 N84-21545
VLSI research, semi-annual technical R&D (Research and Development)
[AD-A138339] 12 p1812 N84-21813
Stereo reconstruction study
[AD-A138208] 12 p1836 N84-21970
Translators between CADD and section 5 of the ANSI Y14.26M standard 12 p1871 N84-22192
Highly parallel processing of relational databases
[AD-A137961] 12 p1877 N84-22231
Effects of computer architecture on FFT (Fast Fourier Transform) algorithm performance
[AD-A138465] 12 p1878 N84-22237
Efficient computer architectures for computing discrete Fourier transforms
[AD-A138109] 12 p1881 N84-22258
A candidate programming language
[AD-A138433] 12 p1883 N84-22274
Real-time synthetic aperture radar processing
12 p1906 N84-22416
A survey of European robotics research
[AD-A138952] 13 p2024 N84-23122
Machine vision: Three generations of commercial systems
[AD-A139037] 13 p2024 N84-23123

A high speed processor for binary images
[AD-A138908] 13 p2025 N84-23125
Feasibility studies of optical processing of image bandwidth compression schemes
[AD-A138736] 13 p2043 N84-23254
Advanced Platform Systems Technology study. Volume 4: Technology advancement program plan
[NASA-CR-173524] 14 p2115 N84-23674
Air operations language for military space ground systems
[AD-P002146] 14 p2137 N84-23811
Dynamic spacecraft simulators in military space ground systems
[AD-P002159] 14 p2139 N84-23825
A methodology for benchmarking relational database machines
[AD-A139104] 14 p2202 N84-24217
On mapping cube graphs on VLSI array and tree architectures
[AD-A139306] 14 p2205 N84-24234
Modular computing networks: A new methodology for analysis and design of parallel Algorithms/Architectures
[AD-A139600] 14 p2209 N84-24261
A parallel QR method using fast Givens' rotations
[AD-A139184] 14 p2212 N84-24281
Report of the Information Technology Workshop
[PB84-163203] 14 p2248 N84-24500
Submicron systems architecture
[AD-A139819] 15 p2270 N84-24630
Hierarchical design and verification for VLSI
15 p2388 N84-25323
Submicron systems architecture
[AD-A139844] 15 p2388 N84-25327
CRONUS: A distributed operating system
[AD-A139983] 15 p2388 N84-25328
Development and evaluation of a fault-tolerant multiprocessor (FTMP) computer. Volume 4: FTMP executive summary
[NASA-CR-172286] 15 p2395 N84-25366
Query execution in the distributed RAP DBM systems
15 p2401 N84-25409
An evaluation of the directed flow graph methodology
[NASA-CR-173593] 16 p2543 N84-26324
A representational basis for the development of a distributed expert system for Space Shuttle flight control
[NASA-TM-58258] 16 p2544 N84-26326
Conference on Vector Calculators, Winter Quarter 1983 16 p2548 N84-26355
Possibilities of using ICL: Distributed array processor
16 p2549 N84-26357
Parallel processors: Aspects of interaction between calculator architecture and algorithms
16 p2549 N84-26360
Upset susceptibility study employing circuit analysis and digital simulation
[NASA-TM-85822] 17 p2733 N84-27374
The Pringle parallel computer
[AD-A140852] 17 p2750 N84-27452
Top-down design and the algebra of communicating processes
[CWI-CS-R8401] 17 p2756 N84-27495
Fault tolerant architectures for integrated aircraft electronics systems, task 2
[NASA-CR-172282] 18 p2795 N84-27734
Space station needs, attributes, and architectural options: Space station program cost analysis
[NASA-CR-173686] 18 p2803 N84-27790
GD 80: Computer assisted device for engineers
18 p2827 N84-27949
Investigation of fast initialization of spacecraft bubble memory systems
[NASA-TM-85832] 18 p2832 N84-27977
Multi-dimensional signal processing research program
[AD-A141273] 18 p2917 N84-28497
Integrated Application of Active Controls (IAAC) technology to an advanced subsonic transpot project-demonstration act system definition
[NASA-CR-165920] 19 p2987 N84-28804
VLSI research
[AD-A142142] 19 p3016 N84-29119
A distributed memory management system for PASM
[AD-A141360] 19 p3072 N84-29487
Design methodology for back-end database machines in distributed environments
[AD-A142122] 19 p3072 N84-29491
Design and performance of a distributed relational data base system
[AD-A142177] 19 p3073 N84-29495
Kernel Ada Programming Support Environment (KAPSE) interface team, public report, volume 3
[AD-A141576] 19 p3077 N84-29523
NLTSS overview
[DE84-008536] 19 p3080 N84-29546
The semi-Markov unreliability range evaluator program
[NASA-TM-86261] 19 p3093 N84-29640
LONEX (Laboratory Office Network Experiment) cost/benefits study, volume 1
[AD-A141396] 19 p3114 N84-29786
Performance evaluation tools for a multi-backend database system
[AD-A141786] 19 p3116 N84-29800
The next generation in satellite flight control systems
19 p3119 N84-29822
Research in VLSI (Very Large Scale Integration) systems
[AD-A142511] 20 p3178 N84-30185
Parallelism in manipulator dynamics. Revision
[AD-A142515] 20 p3196 N84-30299
Strategic computing: New-generation computing technology: A strategic plan for its development and application to critical problems in defense
[AD-A141982] 20 p3266 N84-30721
A minimum area VLSI (Very Large Scale Integrated) architecture for O(logn) time sorting
[AD-A142414] 20 p3266 N84-30723
Supercomputers: The next ten years. A user's view
[DE84-011072] 20 p3267 N84-30727
Logic machine architecture inference mechanisms: Layer 2 user reference manual release 2.0
[DE84-012115] 20 p3267 N84-30728
An operating system and memory switch for the S-1 computer
[DE84-013094] 20 p3267 N84-30731
Integrated Computer-Aided Manufacturing (ICAM) architecture, part 3. Volume 5: Composite function model of manufacture product (MFG0)
[AD-A142337] 20 p3272 N84-30766
Integrated Computer-Aided Manufacturing (ICAM) architecture. Part 3, volume 4: Composite information model of design product (DES 1)
[AD-A142447] 20 p3273 N84-30774
A summary of fault tolerant computing research at Carnegie Mellon University
[AD-A142707] 20 p3273 N84-30777
Review of NASA's (National Aeronautics and Space Administration) Numerical Aerodynamic Simulation Program
[NASA-CR-173842] 20 p3276 N84-30799
Canonical realizations of completely regular modular computing networks
[AD-A142010] 20 p3277 N84-30802
Current research in parallel microprocessing systems at Los Alamos
[DE84-011342] 20 p3277 N84-30804
Design issues in parallel architectures for artificial intelligence
[AD-A142482] 20 p3278 N84-30809
The complexity of sorting on distributed systems
[AD-A142415] 20 p3281 N84-30825
The NEBULA and MCF (Military Computer Family) standardization programs
[AD-P003531] 21 p3331 N84-31135
The NEBULA standard computer architecture
[AD-P003532] 21 p3331 N84-31136
Transportability of NEBULA software
[AD-P003533] 21 p3331 N84-31137
A common 1553B I/O channel for the F-16
[AD-P003546] 21 p3333 N84-31150
MIL-STD-1750A users group
[AD-P003547] 21 p3333 N84-31151
A high performance MIL-STD-1750A microprocessor
[AD-P003549] 21 p3334 N84-31153
A new silicon-on-sapphire MIL-STD-1750A microprocessor
[AD-P003551] 21 p3334 N84-31155
The use of computer ISA (Instruction Set Architectures) and software standards at Westinghouse Defense Electronics Center
[AD-P003552] 21 p3334 N84-31156
Transportable GPU (General Processor Units) chip set technology for standard computer architectures
[AD-P003553] 21 p3334 N84-31157
MIL-STD-1750A verification testing
[AD-P003555] 21 p3335 N84-31159
Standards and integrated avionic digital system architecture
[AD-P003561] 21 p3336 N84-31166
Standard ISAs (Instruction Set Architectures) and VLSI (Very Large Scale Integration): Two interacting trends
[AD-P003563] 21 p3336 N84-31168
PAVE PILLAR: A maturation process for an advanced avionics architecture
[AD-P003568] 21 p3337 N84-31173
Advanced cockpit-systems integration
[AD-P003569] 21 p3337 N84-31174
Defense industry attitudes about AF interface standards report of an electronics industries association survey
[AD-P003570] 21 p3337 N84-31175
A general purpose computer architecture investigation facility
[AD-P003573] 21 p3338 N84-31178
Architecture, hardware and software issues in fielding the next generation DOD processors
[AD-P003581] 21 p3339 N84-31186
Quantum leap in avionics
[AD-P003584] 21 p3340 N84-31189
Architectural and control considerations for a high speed signal processor implemented with an Ada (Trademark) executive
[AD-P003594] 21 p3341 N84-31199
Proceedings of the 2nd AFSC (Air Force Systems Command) Avionics Standardization Conference. Volume 7: Tutorial: MIL-STD-1750, 16 bit instruction set architecture
[AD-A142782] 21 p3342 N84-31205
Cronus, A distributed operating system: Functional definition and system concept
[AD-A142795] 21 p3482 N84-31950
Thinking big
[DE84-007412] 21 p3462 N84-31951
Software design issues in the implementation of hierarchical display editors 21 p3463 N84-31953
Guidelines for testing and release procedures
[NASA-CR-166581] 21 p3464 N84-31962
Integrated Computer-Aided Manufacturing (ICAM) architecture. Part 3, Volume 6: Composite information model of 'Manufacture product' (MFG1)
[AD-A143072] 21 p3466 N84-31973
Autonomous Integrated Receive System (AIRS) requirements definition. Volume 3: Performance and simulation
[NASA-CR-175263] 22 p3576 N84-32648
The design and performance of a parallel computer architecture for simulation 22 p3637 N84-33054
Summary of research performed at MIT Laboratory for Computer Science
[AD-A143459] 22 p3638 N84-33064
The Blue CHiP Project
[AD-A143474] 22 p3638 N84-33065
The use of pipeline techniques in the architecture of digital processors employed in real time applications
[INPE-2992-TDL/153] 22 p3639 N84-33075
The effect of queueing disciplines on response times in distributed systems
[DE84-012639] 22 p3641 N84-33086
The NBS data management technology program
22 p3672 N84-33277
Cognitive information processing
22 p3684 N84-33360
Custom integrated circuits 22 p3684 N84-33361
Detailed system studies on rendezvous and docking. Part 1: Executive summary
[ESA-CR(P)-1894-PT-1] 23 p3697 N84-33428
Methodology for software maintenance
[AD-A143763] 23 p3815 N84-34192
Simulation applied to the avionics system testing in the F/A-18 24 p3849 N84-34409
General Integrated Multipurpose Inflight Calibration System (GIMICS) 24 p3851 N84-34420
Two-dimensional signal processing and storage and theory and applications of electromagnetic measurements
[AD-A144266] 24 p3898 N84-34680
Trends in microprocessor technology outlined
24 p3943 N84-34964
Embedded system design with Ada as the system design language
[AD-A144232] 24 p3945 N84-34979
LISP implementation baseline investigation
[AD-A144244] 24 p3946 N84-34983
Ada (trademark) training curriculum. Software engineering methodologies m201 teacher's guide, volume 1
[AD-A144256] 24 p3946 N84-34984
Integrated Computer-Aided Manufacturing (ICAM) architecture, part 3. Volume 7: MFG01 glossary
[AD-A144426] 24 p3947 N84-34991
ICAM (Integrated Computer Aided Manufacturing) conceptual design for computer-integrated manufacturing. Volume 4, part 5, task D: Quality assurance/quality, control/technical requirement/tasks, quality assurance modeling and analysis, architecture for product assurance, (TTD)
[AD-A144691] 24 p3948 N84-34999
On extending functional capabilities of cellular-logic devices for database management
24 p3959 N84-35067

ARCTIC ENVIRONMENTS
U ICE ENVIRONMENTS

ARCTIC OCEAN
Geophysical data from drifting ice stations FRAM 4 and TRISTEN
[AD-A133370] 06 p0866 N84-15640
Data analysis and modeling of arctic sea ice subsurface roughness
[AD-A133349] 07 p1041 N84-16750

Physical oceanography report STD data from drifting ice station Fram 1
[AD-A134244] 08 p1196 N84-17797
Investigation of ice dynamics in the marginal ice zone — Arctic Ocean
[AD-A134599] 08 p1196 N84-17799
A comparison of numerical results of Arctic Sea ice modeling with satellite images 14 p2165 N84-23969
Arctic Sea ice by passive microwave observations from the Nimbus-5 Satellite 14 p2166 N84-23970
Remote sensing of floe size distribution and surface topography
[E84-10132] 15 p2357 N84-25141
Analyzing temperature data from XBT grid surveys
[AD-A140685] 17 p2737 N84-27388
TRISTEN/FRAM IV arctic ambient noise measurements
[AD-A140656] 17 p2763 N84-27549
Panel 2A: Offshore oil and gas technology assessment 18 p2866 N84-28196
The distribution of ice concentration, multiyear and first year fraction in the Arctic Ocean derived from the Nimbus 7 Scanning Multichannel Microwave Radiometer (SMMR) observations 23 p3773 N84-33920
Arctic ice island and sea ice movements and mechanical properties
[DE84-014324] 23 p3803 N84-34116
Arctic physical oceanography
[AD-A144596] 24 p3935 N84-34909

ARCTIC REGIONS
Occurrences of the polar Slant E Condition (SEC) at Narssarsuaq, Godhavn, Thule, 1981
[ISSN-0108-2922] 02 p0251 N84-11642
Climatic reconstructions in the North American arctic during the last 6000 years
[DE83-015836] 02 p0256 N84-11677
Hundred years later: September 1883 - September 1983; annotated bibliography of the first Dutch North Pole expedition 1882-1883
[KNMI-83-02] 05 p0696 N84-14571
Raman study of graphitic-carbon concentrations in the Western Arctic
[DE84-001090] 05 p0700 N84-14596
The effects of long-range transport of air pollutants on artic cloud-active aerosol 05 p0702 N84-14604
Radar and infrared remote sensing of terrain, water resources, arctic sea ice, and agriculture 06 p0868 N84-15651
Radiative-dynamic properties of Arctic stratus clouds and their possible modification by aerosol particles
[DFVLR-FB-83-23] 06 p0882 N84-15740
The effects of dehydration on peripheral cooling
[AD-A130838] 06 p0887 N84-15767
Arctic haze: Natural or pollution?
[AD-A134263] 07 p1039 N84-16737
Providing comprehensive national policy dealing with national needs and objectives in the Arctic and national materials policy
[H-REPT-98-593] 06 p1173 N84-17640
Arctic personnel effects
[AD-A134892] 08 p1201 N84-17829
Cosmos-1500 SLR used for Arctic ice reconnaissance 09 p1265 N84-18258
USSR report: Earth sciences
[JPRS-UES-84-003] 11 p1669 N84-20691
Arctic Terrestrial Environmental Research Programs of the Office of Energy Research, Department of Energy: Evaluations and recommendations. Appendix B: Components of an Arctic Terrestrial Environmental Research Program
[PB84-129766] 11 p1672 N84-20913
Variation of arctic cloud cover in summer: Results through February 1983
[DE84-005098] 11 p1688 N84-21010
Evaluation of arctic test of tritium radioluminescent lighting
[AD-A139176] 14 p2104 N84-23619
Satellite tactical communications at high altitudes
[AD-P002145] 14 p2137 N84-23810
US Geological Survey Polar Research Symposium. Abstracts with program
[USGS-CIRC-911] 14 p2160 N84-23934
Satellite image atlas of glaciers: The Polar regions 14 p2161 N84-23940
Tectonic evolution of the Arctic continental margin in the Beaufort and Chukchi Seas: Evidence from seismic reflections 14 p2164 N84-23958
The Arctic platform in the national petroleum reserve in Alaska: Deposition, deformation and petroleum potential 14 p2164 N84-23959
Glaciation in Arctic Alaska 14 p2165 N84-23965
A pleistocene sand desert in Arctic Alaska 14 p2165 N84-23966
Geochemical detection of prospective petroleum areas in Arctic regions 14 p2166 N84-23972
Measurements of atmospheric effects on satellite links at very low elevation angle 15 p2323 N84-24948
VHF and UHF propagation in the Canadian high Arctic 15 p2326 N84-24969
Investigation of ice dynamics in the marginal zone
[AD-A138558] 15 p2374 N84-25243
Arctic Research and Policy Act of 1983
[GPO-171] 15 p2419 N84-25527
Successful Arctic testing of KA-32 helicopter 18 p2784 N84-27671
IL-76 used successfully for Arctic cargo air drops 18 p2784 N84-27673
Antonov Bureau developing new STOL turbofan for use in far north 18 p2790 N84-27710
Variation of Arctic cloud cover during summer 1979, part 1
[DE84-008996] 19 p3057 N84-29395
The geology and petroleum resources of basins in the Asian Arctic and offshore east Greenland
[DE84-012114] 21 p3431 N84-31772
Geology and geochemistry of the Arctic prospect, Ambler District, Alaska 21 p3438 N84-31814
Arctic ice island and sea ice movements and mechanical properties
[DE84-014324] 23 p3803 N84-34116
Mapping of Arctic haze using airborne lidar 24 p3907 N84-34746

AREA
A new solar cell design for improved open circuit voltage and high efficiency
[NASA-CASE-NPO-16126-1] 22 p3616 N84-32911

AREA NAVIGATION
A comparison of two position estimate algorithms that use ILS localizer and DME information. Simulation and flight test results
[NASA-TP-2281] 08 p1102 N84-17165
Evaluation of radio navigation systems and their configuration with respect to minimum cost
[DFVLR-FB-83-32] 10 p1426 N84-19329
Simulation analysis and derivation of accuracy requirements for future terminal area navigation. Part 1: Single aircraft analysis
[BMFT-FB-W-83-035-PT-1] 12 p1768 N84-21535
Simulation analysis and derivation of accuracy requirements for future terminal area navigation. Part 2: Multi aircraft analysis
[BMFT-FB-W-83-036-PT-2] 12 p1769 N84-21536

ARGENTINA
Argentina wheat yield model
[E84-10101] 12 p1828 N84-21919
Argentina soybean yield model
[E84-10102] 12 p1828 N84-21920
Argentina corn yield model
[E84-10105] 12 p1829 N84-21923

ARGON
Development of advanced inert-gas ion thrusters
[NASA-CR-168206] 01 p0029 N84-10180
Ignition delay times of propene oxygen argon mixtures
[AD-A130464] 01 p0037 N84-10232
Molecular-beam scattering
[DE83-016138] 01 p0144 N84-10951
Shocked fluids at high densities and temperatures
[DE83-015901] 02 p0219 N84-11437
Atmospheric-pressure argon afterglows as a detector for gas chromatography
[DE83-017695] 03 p0351 N84-12282
Observations of nonlinear behavior in a low-pressure discharge column
[AD-A132321] 04 p0605 N84-13996
Theoretical treatment of the current neutralization of high intensity light ion beams in argon
[DE84-000118] 05 p0745 N84-14893
Non-LTE radiation from an argon seeded microballoon implosion 2
[AD-A133679] 05 p0749 N84-14919
Bone blood flow measured by (41)Ar clearance formed by (44)Ca(n,(-)) (41)Ar
[DE83-017600] 06 p0886 N84-15761
Investigation of a microwave discharge in argon/helium mixtures
[LP-202] 07 p0995 N84-16451
Shock structure near a wall in pure inert gas and in binary inert gas mixtures 07 p1005 N84-16517
Scattering distribution characteristics of rare gases reflected from metal surface with absorbed gas molecules
[NAL-TR-761] 09 p1394 N84-19101
Diffusion of gases in porous solids: Simulations and measurements
[DE84-004146] 10 p1494 N84-19771
Charge state resolved energy spectra of He, N, Ar, and Na ions — in a plasma focus 10 p1582 N84-20366
Abundances in galactic H2 regions, 3: G25.4-0.2, G45.5+0.06, M8, S159 and DR22
[NASA-TM-85962] 17 p2774 N84-27616
Direct measurement of a VUV transition oscillator strength in xenon
[DE84-008555] 18 p2941 N84-28655
Thrust balance efficiency measurements for a pulsed inductive thruster 20 p3139 N84-29930
Resonance ionization spectroscopy of argon, krypton and xenon using vacuum ultraviolet light
[DE84-011655] 20 p3150 N84-30006
Mechanical properties of components made from powders received by processing low-grade porous titanium 23 p3707 N84-33500

ARGON LASERS
Spectroscopic evaluation of Nd(3+):CAMGAR and H sub o(3+):YLF as 0.94 micrometer lasers
[AD-A137610] 11 p1662 N84-20845
A study of low level laser retinal damage
[AD-A137664] 11 p1695 N84-21055
Five times compression of mode-locked argon ion laser pulses
[AD-A139635] 15 p2339 N84-25040
Capillary separations with calorimetric absorbance detection
[DE84-012466] 20 p3195 N84-30291
Experiments in development of powerful dye laser 21 p3486 N84-32095

ARGON PLASMA
Hysteresis in a low-pressure argon discharge, revision
[AD-A134387] 07 p1076 N84-16995
A detailed consideration of resonance radiation trapping in the argon inductively coupled plasma
[AD-A136633] 09 p1391 N84-19085
Two-dimensional MHD boundary layers in argon-cesium plasmas
[EUT-83-E-139] 10 p1587 N84-20400
High resolution X-ray spectra of H- and He-like argon from the Alcator C Tokamak 11 p1735 N84-21321
Mini, micro, and high-efficiency torches for the ICP (Inductively-Coupled Plasma): Toys or tools?
[AD-A138144] 12 p1909 N84-22440
A detailed consideration of resonance radiation trapping in the argon inductively coupled plasma
[AD-A139369] 14 p2222 N84-24334
Spatial electron density and electric field strength measurements in microwave cavity experiments
[NASA-CR-173907] 22 p3582 N84-32682

ARGUMENTS (MATHEMATICS)
U INDEPENDENT VARIABLES

ARIANE LAUNCH VEHICLE
Development of an ultrasonic testing procedure for electron beam welded parts for aerospace applications
[BMFT-FB-W-72-011] 03 p0386 N84-12515
The ESA activities on future launchers 16 p2441 N84-25657
Ariane V8 - Intelsat V F8 16 p2456 N84-25746
Analysis of the sound field radiated by the Ariane launch vehicle during lift-off 16 p2476 N84-25872
West Europe report: Science and technology
[JPRS-WST-84-018] 17 p2640 N84-26888
Second Ariane launch pad at Kourou, Belgian participation 17 p2640 N84-26889
Dynamic analysis of evolutive conservative systems. Discussion of eigenmode crossings
[NASA-TM-77052] 24 p3860 N84-34462

ARID LANDS
Evaluation of radiometric and geometric characteristics of LANDSAT-D imaging system
[E84-10050] 04 p0553 N84-13643
Measurements of optical properties of particulates in an arid region
[AD-A132889] 05 p0709 N84-14644
Group Agromet Monitoring Project (GAMP), phase 1
[ESA-CR(P)-1769] 07 p1023 N84-16637
Identifying environmental features for land management decisions
[E84-10125] 14 p2168 N84-23984
Revegetation methods for arid areas, revised
[AD-A139088] 14 p2170 N84-23997
Measurement of unsaturated flow below the root zone at an arid site
[DE84-006575] 15 p2359 N84-25158
Discriminating vegetation and soils using LANDSAT MSS and Thematic Mapper bands and band ratios
[AD-A140198] 16 p2510 N84-26108
Sensing of factors involved in development of exogenous processes on space photographs of arid territories 19 p2977 N84-28870
Agriculture and water use: Present and future issues
[GPO-30-599] 22 p3614 N84-32897

ARIP (IMPACT PREDICTION)
U COMPUTERIZED SIMULATION
U IMPACT PREDICTION

ARITHMETIC
NT FIXED POINT ARITHMETIC
NT FLOATING POINT ARITHMETIC
Fast arithmetic operations on numbers and polynomials 08 p1224 N84-17992

Pulse-train residue arithmetic circuit using multiple-valued charge-coupled devices and its application to digital filter
[AD-P002345] 14 p2191 N84-24136
A quaternary cellular array complex number multiplier
[AD-P002362] 14 p2193 N84-24153
Cyclic ST-AN codes and modular ST distance
[AD-P002367] 14 p2194 N84-24158
The arithmetic of differentiation
[AD-A142964] 21 p3473 N84-32011
Multi-length arithmetic implementation and uses
[MR-179] 24 p3950 N84-35008

ARITHMETIC AND LOGIC UNITS
A comparison of arithmetic units in VLSI signal processing systems 09 p1403 N84-19165
Optical residue addition and storage units using a Hughes liquid crystal light valve 12 p1906 N84-22417
The design and layout of a complementary metal oxide semiconductor silicon on sapphire cell library
[AD-A138310] 12 p1914 N84-22470
A quaternary cellular array complex number multiplier
[AD-P002362] 14 p2193 N84-24153
Cyclic ST-AN codes and modular ST distance
[AD-P002367] 14 p2194 N84-24158
Programmable arithmetic logic unit
[AD-D011128] 22 p3637 N84-33055

ARIZONA
Arizona State science, engineering and technology process
[PB83-237107] 03 p0458 N84-13016
Stratified maximum temperature relationships between sixteen zone stations in Arizona and respective key stations
[PB83-249904] 04 p0568 N84-13746
Geophysical exploration surveys for ground water in the San Pedro Basin, Arizona
[PB84-110808] 08 p1179 N84-17684
Subsidence monitoring for state of Arizona
[PB84-126960] 08 p1189 N84-17750
Estimation of recharge in a small southern Artzona basin by means of hydrological, hydrochemical, and environmental isotope data
[PB84-159672] 20 p3230 N84-30527
Climatic change and streamflow in the southwest
[DE84-012658] 21 p3432 N84-31776

ARKANSAS
An initial analysis of LANDSAT 4 Thematic Mapper data for the classification of agricultural, forested wetland, and urban land covers
[E84-10073] 07 p1020 N84-16620
Water resources data Texas: Water year, 1982. Volume 1: Arkansas River Basin, Red River Basin, Sabine River Basin, Neches River Basin, Trinity River Basin and intervening coastal basins
[PB84-133271] 10 p1527 N84-20006
An initial analysis of LANDSAT-4 Thematic Mapper data for the discrimination of agricultural, forested wetland, and urban land covers 20 p3213 N84-30414
Preliminary evaluation of Thematic Mapper image data quality 20 p3214 N84-30415
Thematic Mapper data quality and performance assessment in renewable resources/agriculture remote sensing 20 p3215 N84-30422
A first evaluation of LANDSAT TM data to monitor suspended sediments in lakes 20 p3215 N84-30425
Preliminary evaluation of TM for soils information 20 p3216 N84-30427
Water resources data for Arkansas, water year 1982
[PB84-181296] 20 p3229 N84-30522
Investigation of several aspects of LANDSAT 4/5 data quality — California, Texas, Arkansas, Alabama, and Pacific Ocean
[E84-10024] 22 p3613 N84-32892

ARM (ANATOMY)
Dynamics of rheographic parameters of cerebral circulation and circulation in the extremities during active orthostatic test 02 p0260 N84-11700
Physiological responses to prolonged upper body exercise
[AD-A134811] 08 p1200 N84-17826
The effect of aerobic capacity on VO2 max values measured during leg ergometry and combined arm and leg ergometry 10 p1548 N84-20149
The design of manually operated controls for a six-degree-of-freedom groundborne walking vehicle: Control strategies and stereotypes
[AD-P003273] 18 p2907 N84-28438
Psychophysics of proprioceptive sensibility 21 p3456 N84-31933

ARMATURES
Railgun plasma armature characterisation experiments
[MRL-R-928] 24 p3965 N84-35104

ARMED FORCES
NT ARMED FORCES (FOREIGN)
NT ARMED FORCES (UNITED STATES)
NT NAVY
Report on a visit to England, 7-10 November 1983 — defense medical research
[FOA-C-59009-H1] 18 p2901 N84-28402

ARMED FORCES (FOREIGN)
Probing into the secret of the Chinese Air Force
[AD-A135960] 09 p1249 N84-18157
Handling of hydrazine in the Royal Danish Air Force 22 p3631 N84-33014

ARMED FORCES (UNITED STATES)
A survey of body fat content of U.S. Navy male personnel
[AD-A131500] 01 p0113 N84-10736
Project UPGRADE extended statistical analysis
[AD-A130823] 01 p0137 N84-10897
Evaluation of automated imagery analysis algorithms for use in the three-dimensional nephanalysis model at AFGWC (Air Force Global Weather Central)
[AD-A131986] 03 p0410 N84-12686
Microfiche Image Transmission System (MITS) demonstration field evaluation of microfacsimile
[AD-A134716] 08 p1145 N84-17450
Overuse injuries of the lower extremities associated with marching, jogging and running. A review
[AD-A134672] 08 p1200 N84-17824
The Army study program fiscal year 1984 report, volume 1
[AD-A136213] 09 p1398 N84-19130
The Army study program fiscal year 1984 report, volume 2
[AD-A136214] 09 p1398 N84-19131
Memory organization-based methods of instruction: A comparison with performance-oriented training
[AD-A137640] 11 p1701 N84-21098
Individual differences in military decisionmaking: The classification performance of active sonar operators
[AD-P002885] 13 p1979 N84-22848
The leader of the Army acquisition workforce
[AD-P002762] 13 p2052 N84-23309
Air Force Systems Command research planning guide (research objectives)
[AD-A138851] 13 p2064 N84-23384
United States Air Force summer faculty research program, 1983. Program management report
[AD-A139366] 14 p2245 N84-24484
United States Air Force summer faculty research program, 1983, volume 1
[AD-A139403] 14 p2245 N84-24485
United States Air Force summer faculty research program, 1983, volume 2
[AD-A139404] 14 p2246 N84-24486
An overview of productivity improvement efforts in Army organizations
[AD-A138589] 14 p2246 N84-24490
Now: An initial approach to collection of major materiel systems actual costs
[AD-A139845] 15 p2416 N84-25505
Results of a research study to identify historical RDTE (Research, Development, Test and Evaluation) obligations and expenditures on major Army materiel and non-materiel systems
[AD-A139328] 15 p2416 N84-25508
Visible spectra of standard Navy colored flares
[AD-A140342] 16 p2474 N84-25858
Department of Housing and Urban Development-Independent Agencies Appropriations Bill, 1985
[S-REPT-98-506] 16 p2568 N84-26476
Engineering aids for the design of survivable defense communications transmission capability
[AD-A140755] 17 p2653 N84-26970
Cohesion in the US military
[AD-A140828] 17 p2747 N84-27439
Increasing competition for spares within AFLC (Air Force Logistics Command)
[AD-A140751] 17 p2770 N84-27588
Making appropriations for the Department of Housing and Urban Development, and for sundry independent agencies, boards, commissions, corporations, and offices for the fiscal year ending September 30, 1985, and for other purposes
[H-REPT-98-867] 17 p2772 N84-27603
Justification of estimates for fiscal year 1985 submitted to Congress February 1984. Aircraft procurement, Air Force
[AD-A140837] 17 p2773 N84-27610
Notes on a theory of terrorism
[AD-P003242] 18 p2903 N84-28409
Situational interaction: A peer counseling approach to AWOL (unauthorized absences from duty) reduction
[AD-P003243] 18 p2903 N84-28410
Evaluation of the BCT (Basic Cadet Training) paraprofessional counselor training at the United States Air Force Academy
[AD-P003244] 18 p2903 N84-28411
Suicide gestures of USAF basic trainees
[AD-P003245] 18 p2903 N84-28412
Expectations, job perceptions and disconfirmation among Air Force Academy graduates
[AD-P003259] 18 p2906 N84-28426
The effects of REFORGER (return of forces to Germany) exercise participation on soldiers' attitudes
[AD-P003260] 18 p2906 N84-28427
Changes in attitudes toward women at the Air Force Academy
[AD-P003261] 18 p2906 N84-28428
Risk-taking performance of military personnel: Sex differences and practice effects
[AD-P003262] 18 p2906 N84-28429
Comparing well-being and stress of several high risk Army groups
[AD-P003264] 18 p2906 N84-28430
Habitability and human productivity issues confronting the Air Force Space Command
[AD-P003266] 18 p2906 N84-28431
Health risks associated with aircraft model type among US Navy pilots
[AD-P003270] 18 p2907 N84-28435
Windows on a future world: Human dimensions of Air Force doctrine in the 21st century
[AD-P003307] 18 p2909 N84-28449
Leadership, managership, and computers in today's Air Force
[AD-P003351] 18 p2912 N84-28468
Relationship between crewmember characteristics and tank crew performance
[AD-P003355] 18 p2912 N84-28471
Research integration: An essential for Department of Defense psychological research
[AD-P003366] 18 p2913 N84-28479
A review of US Army aircrew-aircraft integration research programs
[NASA-TM-85947] 19 p2968 N84-28809
Izvestiya assails U.S. military space plans 19 p2978 N84-28877
U. S. ASAT program viewed as element of space militarization policy 19 p2978 N84-28878
Stress biochemistry: Non-invasive measurement techniques in military subjects
[AD-A141598] 19 p3065 N84-29447
Recommendations for the conduct of physical training in cold weather
[AD-A142137] 19 p3066 N84-29449
Validation of the military entrance physical strength capacity test
[AD-A142169] 19 p3066 N84-29451
US Army Research Institute 1983 report
[AD-A141821] 19 p3115 N84-29790
Evaluation of U.S. Coast Guard forward-looking airborne radars
[AD-A142417] 20 p3174 N84-30156
The Army Ada (trademark) education program
[AD-P003414] 20 p3269 N84-30746
The US Army model Ada (trademark) training curriculum
[AD-P003415] 20 p3269 N84-30747
A field study of Air Force organization structures
[AD-A142389] 20 p3312 N84-31035
A model of inter-organizational influences on organizational processes
[AD-A142450] 20 p3313 N84-31037
Westinghouse uses USAF-developed standards
[AD-P003572] 21 p3338 N84-31177
Proceedings of the 5th Interservice/Industry training equipment conference Volume 1
[AD-A142774] 21 p3508 N84-32223
A comparison of simulator procurement/program practices: Military versus commercial
[AD-P003453] 21 p3509 N84-32230
Marine Corps ground simulator training needs in the 1985-1995 time frame
[AD-P003485] 21 p3511 N84-32242
Proceedings of the 5th Interservice-Industry Training Equipment Conference, volume 2
[AD-A142775] 21 p3515 N84-32236
Photodigitizing procedures
[AD-A143589] 22 p3599 N84-32793
IBM's token-ring LAN (Local-Area Network): A base-level communications solution
[AD-A143446] 22 p3638 N84-33063
Analysis of benefits realized from multiyear contracting for the Black Hawk helicopter
[AD-A143485] 22 p3669 N84-33254

ARMOR
Laser surface hardened patterns for increased ballistic protection
[AD-A130385] 01 p0043 N84-10277

Feasibility of using a large press (80,000 - 200,000 tons) for manufacturing future components on Army systems
[AD-A132398] 04 p0544 N84-13582
West breakwater-Sines (Portugal): Study of armor stability 08 p1194 N84-17788
West breakwater-Sines (Portugal): New aspects of armor units 08 p1195 N84-17789
Structural composites technology working group report IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A137331] 10 p1504 N84-19829
Thermomechanical processing and texture development in Ni-Cr-Mo and Mn-Mo-B armor steels
[AD-A142352] 20 p3153 N84-30020

AROMATIC COMPOUNDS
Far infrared studies on superconductors and heat-capacity studies on liquid crystals
[DE84-001105] 04 p0613 N84-14046
Study of nitration and oxidation in oxynitrogen systems
[AD-A132742] 05 p0650 N84-14271
Model compound studies of rigid rod aromatic heterocyclic polymer systems, the X-ray crystal structure of 2,6-diphenylbenzo (1,2-d; 5,4-d') diimidazole tetrahydrate, C2OH14N4. 4H2O, a model system for the study of polymer-water interaction in polybenzimidazoles
[AD-A135278] 08 p1137 N84-17393
Properties of fuels employed in a gas turbine combustor program
[AD-A136663] 10 p1470 N84-19600
Synthesis and properties of phenylated aromatic heterocyclic imide and thiazole polymers containing pendant diphenylether and diphenylsulfide groups
[AD-A140341] 16 p2472 N84-25844
Synthesis of polyheteroarylenes for highly heat-resistant materials
[AD-A140610] 17 p2626 N84-26604
Investigation of thermal coking rates of Air Force jet fuels
[AD-A144421] 24 p3890 N84-34631

AROUSAL
Benzodiazepine effects on arousal threshold during sleep
[AD-A133151] 07 p1047 N84-16792
Cognition and arousal as predictors of risk taking: Effects of load and cognitive style
[AD-A134324] 08 p1203 N84-17843
Task differences, stylistic characteristics and physiological arousal
[AD-A134335] 08 p1203 N84-17844
An instrumental conditioning method for establishing chronic arousal
[AD-A140808] 17 p2740 N84-27396
Nonauditory-system response to noise and effects on health 19 p3070 N84-29475

ARPA COMPUTER NETWORK
A technical overview of the National Software Works
[AD-A132320] 04 p0580 N84-13827
A survey of network reliability
[AD-A133545] 06 p0899 N84-15835
Pluribus satellite IMP (Interface Message Provision) development mobile access terminal network
[AD-A136256] 09 p1298 N84-18486

ARRAYS
NT ANTENNA ARRAYS
NT LINEAR ARRAYS
NT MULTISPECTRAL LINEAR ARRAYS
NT PHASED ARRAYS
NT SOLAR ARRAYS
NT SOLAR BLANKETS
NT STEERABLE ANTENNAS
NT YAGI ANTENNAS
Analysis of the Howells-Applebaum algorithm in the presence of moving interference. The use of lattice filters in daptive array processors. Stability analysis of LMS adaptive filters. Adaptive array processors with moving interference
[AD-A130218] 01 p0063 N84-10413
Gate array layout using CADDS 2
[DE83-014840] 01 p0075 N84-10491
FORTRAN 8X: A continuing language for numerical software
[DE83-014290] 01 p0124 N84-10809
Use of superposition in calculating cooling requirements for circuit cards containing arrays of electronic components
[DE83-016091] 03 p0373 N84-12428
Turbulent tube-flow heat transfer coefficients in the presence of flow imbalance in the tubes of a parallel array 03 p0374 N84-12437
A model for the distributed storage and processing of large arrays
[NASA-CR-172252] 03 p0420 N84-12742
Wafer-scale integration of systolic arrays
[AD-A132536] 04 p0525 N84-13450
The effects of naturally-occurring propagation disturbances on discrete focused arrays
[AD-A132645] 05 p0670 N84-14404
Cascaded adaptive arrays 05 p0671 N84-14415
Analysis of airborne antenna pattern and mutual coupling and their effects on adaptive array performance 05 p0672 N84-14416
Rotationally symmetric arrays of apertures on conducting spherical surfaces 05 p0673 N84-14419
Applications of Josephson junction squids and arrays
[AD-A134114] 05 p0673 N84-14425
Arrays of very small voltammetric electrodes based on reticulated vitreous carbon
[AD-A134031] 05 p0674 N84-14426
Parametric acoustic array formation via weak collinear and noncollinear interaction in dispersive fluids
[AD-A133660] 05 p0675 N84-14436
Very Large Array observations of solar active regions. 4: Structure and evolution of radio bursts from 20 cm loops
[AD-A133907] 06 p0940 N84-16109
Modelling algorithm execution time on processor arrays
[NASA-CR-172269] 08 p1211 N84-17899
Deep diode arrays for X-ray detection
[NASA-CR-175178] 09 p1306 N84-18537
A study of a space-station-associated multiple spacecraft Michelson spatial interferometer
[NASA-CR-175438] 11 p1624 N84-20630
Design and development of a stand-alone concentrator photovoltaic array
[DE84-005860] 11 p1675 N84-20930
Multiplication of processing capacity with a parallel processor array
[DE84-004654] 11 p1711 N84-21156
PLAFST programmable logic array from state table
[AD-A138466] 12 p1883 N84-22275
GaAs/GaAlAs bipolar heterojunction gate array
[AD-A138203] 12 p1913 N84-22466
High angular resolution microwave sensing with large, sparse, random arrays
[AD-A138717] 13 p1983 N84-22874
Multi-sensor array time-delay estimation with small phase incoherences
[AD-A138867] 13 p2033 N84-23183
Further development of XTRAN3S computer program
[NASA-CR-172335] 14 p2101 N84-23608
Measurement of the energy resolution and related properties of an SCG1-C scintillation glass shower counter array for 1 to 25 GeV positrons
[DE84-007246] 14 p2148 N84-23871
On mapping cube graphs on VLSI array and tree architectures
[AD-A139306] 14 p2205 N84-24234
Singular value computations with systolic arrays
[AD-A139302] 14 p2211 N84-24277
Instrumentation requirements for small scale towed temperature measurements
[AD-A139897] 15 p2336 N84-25026
Very large array observations of solar active regions
[AD-A139287] 15 p2428 N84-25586
Possibilities of using ICL: Distributed array processor 16 p2549 N84-26357
Measurements of the low wavenumber wall pressure spectral density during transition on a flat plate
[AD-A140753] 17 p2668 N84-27013
Design considerations for high-power VHF radar transceivers: Distributed versus single large transmitter 17 p2692 N84-27144
Astronomical application of IR CID technology
[NASA-CR-166584] 18 p2844 N84-28057
Synthesis of arbitrary broadband signals for a parametric array
[AD-D011021] 19 p3100 N84-29691
Fiber optic bundle towed array
[AD-D011034] 19 p3105 N84-29724
Fiber optic lever towed array
[AD-D011047] 19 p3105 N84-29727
Gate arrays — integrated circuits
[AD-B082958] 20 p3182 N84-30214
A theory for cross-coupling in ultrasonic transducer arrays
[DE84-010327] 20 p3189 N84-30259
Use of space-diverse photoreceivers for analysis of interference patterns 21 p3377 N84-31429
Deep-Towed Array Geophysical System (DTAGS): A hardware description
[AD-A142970] 21 p3444 N84-31851
Kolmogorov's and Mourier's strong laws for arrays with independent and identically distributed columns
[AD-A143222] 22 p3650 N84-33139
Point response functions for unfilled optical arrays
[AD-A143384] 22 p3657 N84-33183
The microcode for the control processor of the ARO (array oriented processor) array processor
[AD-A143765] 23 p3813 N84-34175
Pipelined orthogonal digital lattice filters
[AD-A143902] 23 p3818 N84-34208
Broadband guided-wave optical frequency translator using an electro-optical Bragg array
[AD-D011164] 23 p3825 N84-34260
Conformal array compensating beamformer
[AD-D011198] 24 p3893 N84-34654
Optoelectronic programmable logic arrays 24 p3941 N84-34948

ARRHYTHMIA
Ventricular pre-excitation syndromes 11 p1699 N84-21084
Continuous ECG monitoring by the Holter method 11 p1700 N84-21086
The Holter method in aeronautical medicine 11 p1700 N84-21087

ARRIVALS
Aircraft accident report - A. E. Staley Manufacturing Company, Inc., Canadair Challenger CL-600, N605C, Hailey, Idaho, January 3, 1983
[PB83-910405] 04 p0482 N84-13169
Passive source localization from spatially correlated angle-of-arrival data
[AD-A133141] 06 p0822 N84-15362

ARROW WINGS
Low-speed wind-tunnel study of the high-angle-of-attack stability and control characteristics of a cranked-arrow-wing fighter configuration
[NASA-TM-85776] 14 p2110 N84-23654

ARSENIC
NT ARSENIC ISOTOPES
Effects of simultaneous phosphorus and arsenic diffusions on emitter push and dislocation generation
[AD-A132331] 04 p0612 N84-14042

ARSENIC COMPOUNDS
NT ALUMINUM GALLIUM ARSENIDES
NT GALLIUM ARSENIDES
NT INDIUM ARSENIDES
Impact of weak electric field on photoconductivity of modified vitreous As2Se3 20 p3286 N84-30867

ARSENIC ISOTOPES
Annealing of interstitial loops in arsenic implanted silicon
[DE84-000384] 05 p0755 N84-14953

ARSENIDES
NT ALUMINUM ARSENIDES
NT ALUMINUM GALLIUM ARSENIDES
NT GALLIUM ARSENIDES
NT INDIUM ARSENIDES

ARTERIES
NT AORTA
Assessment of ultrasonic B-scan imaging for detection and quantification of atherosclerotic lesions in human carotid and illofemoral arteries and in arteries of animals
[PB83-261123] 05 p0714 N84-14678
Wave propagation in a thin walled liquid filled initially stressed tube — blood flow
[MEAH-24] 07 p1005 N84-16519
High capacity heat pipe performance demonstration
[NASA-CR-171733] 08 p1157 N84-17531
Exploration of arterial function using Doppler flow determination. Application to aeronautical and space medicine 11 p1700 N84-21091
Experimental and clinical research on the effectiveness of ultrasound in vascular surgery
[ISSN-0208-5658] 19 p3064 N84-29442
Nomogram for demonstrating change in central venous and pulmonary artery pressure during decompression of different parts of the body 20 p3255 N84-30680
Pulmonary artery location during microgravity activity: Potential impact for chest-mounted Doppler during space travel
[NASA-TM-58262] 21 p3457 N84-31935

ARTERIOSCLEROSIS
Assessment of ultrasonic B-scan imaging for detection and quantification of atherosclerotic lesions in human carotid and illofemoral arteries and in arteries of animals
[PB83-261123] 05 p0714 N84-14678
Detection of latent atherosclerotic stenosing lesions to great vessels of the head in flight personnel 07 p1046 N84-16787
Investigation of the microcirculation of the conjunctiva in airmen with the initial symptoms of cerebral atherosclerosis 08 p1199 N84-17818
Computer-aided analysis of atherosclerosis 15 p2431 N84-25598

ARTHROPODS
NT INSECTS
NT MOTHS
Rheoceptive mediators of graviperception in a water flea: Morphological implications of antennal-socket setae in daphnia magna 09 p1360 N84-18883

ARTICULATION
Speech communications in noise 19 p3069 N84-29469

ARTIFACTS
G-38, 39 and 40: An artist's exploration of space — using the space environment to create orbiting sphere configurations 18 p2801 N84-27774
ARTIFICIAL CLOUDS
NT BARIUM ION CLOUDS
NT CHEMICAL CLOUDS
Review and assessment of USAF and US Army (HISS) artificial icing cloud studies
[AD-A135720] 09 p1349 N84-18814
Measurements of coefficient of turbulent diffusion in middle-latitude strato- and mesosphere 11 p1670 N84-20894
Modification of the surface temperature by an artificial cirrus cloud
[DE84-011387] 20 p3247 N84-30611
ARTIFICIAL INTELLIGENCE
NT COGNITIVE PSYCHOLOGY
NT EXPERT SYSTEMS
Representation in memory
[AD-A130662] 01 p0117 N84-10757
Proceedings of the Conference on Applied Natural Language Processing
[AD-A129624] 01 p0121 N84-10787
An overview of artificial intelligence and robotics. Volume 1: Artificial intelligence. Part B: Applications
[NASA-TM-85836] 01 p0128 N84-10834
An extremum principle for shape from contour
[AD-A131321] 02 p0272 N84-11780
Design of a system that understands informal specifications
[AD-A131479] 02 p0273 N84-11785
Recommendations for NASA research and development in artificial intelligence
[NASA-CR-170585] 02 p0277 N84-11817
Discourse and problem solving
[AD-A131003] 02 p0277 N84-11818
Interdisciplinary study on artificial intelligence
[AD-A131359] 02 p0278 N84-11819
Natural language communication with machines: An ongoing goal
[AD-A131320] 02 p0278 N84-11820
Artificial intelligence implications for information retreival
[AD-A131382] 02 p0278 N84-11821
Research on interactive acquisition and use of knowledge
[AD-A131306] 02 p0278 N84-11823
Machine learning. Part 1: A historical and methodological analysis
[AD-A131424] 02 p0278 N84-11824
What's important about knowledge representation
[AD-A131260] 02 p0278 N84-11825
Expert systems: Matching techniques to tasks
[AD-A131385] 02 p0279 N84-11826
Robotics: An introduction to today's robot and future trends
[AD-A132070] 03 p0423 N84-12768
Using structural and functional information in diagnostic design
[AD-A131859] 03 p0423 N84-12769
Artificial intelligence: Cognition as computation
[AD-A131804] 03 p0423 N84-12770
Prerequisites for deriving formal specifications from natural language requirements
[AD-A131722] 03 p0424 N84-12771
Representations for reasoning about change
[AD-A131649] 03 p0424 N84-12772
Automated reasoning in man-machine control systems
[DE83-014307] 03 p0424 N84-12774
Four frames suffice. A provisionary model of vision and space
[AD-A132359] 04 p0580 N84-13825
Issues in the design and implementation of Act2
[AD-A132326] 04 p0580 N84-13826
Artificial intelligence techniques for industrial applications in job shop scheduling
[AD-A132164] 04 p0586 N84-13867
A knowledge based approach to VLSI CAD
[AD-A133692] 05 p0675 N84-14434
Picking up an object from a pile of objects
[AD-A133631] 05 p0716 N84-14691
An overview of artificial intelligence and robotics. Volume 1: Artificial intelligence. Part C: Basic AI topics
[NASA-TM-85839] 05 p0732 N84-14805
Some remarks on the role of logic in knowledge representation
[AD-A132534] 05 p0732 N84-14806
The syntactic theory of belief and knowledge
[AD-A133905] 05 p0732 N84-14807
Hypothesizing channels through free-space in solving the findpath problem
[AD-A133632] 05 p0732 N84-14810
An overview of the quasi-optimizer system
[AD-A133763] 05 p0739 N84-14856
Artificial intelligence: An analysis of potential applications to training, performance measurement, and job performance aiding
[AD-A133592] 06 p0900 N84-15839
Analyzing the roles of descriptions and actions in open systems
[AD-A133614] 06 p0905 N84-15878
An interval logic for higher-level temporal reasoning
[NASA-CR-172262] 07 p1053 N84-16821
Solving uninterpreted equations with context free expression grammars
[AD-A133613] 07 p1085 N84-17055
Reasoning in multiple belief spaces
08 p1210 N84-17894
Knowledge representation and natural-language semantics
[AD-A135476] 08 p1212 N84-17905
Inquiry semantics: A functional semantics of natural language grammar
[AD-A135153] 08 p1215 N84-17929
Mutual adaptiveness of man and machine in information acquisition tasks
[AD-A135449] 08 p1216 N84-17932
Center of excellence in aerospace manufacturing automation
[AD-A136477] 09 p1249 N84-18155
The AI research environment at the US Army engineer topographic laboratories
[AD-A136316] 09 p1336 N84-18727
Strategies of cooperation in distributed problem solving
[AD-A136527] 09 p1371 N84-18955
Active databases as a paradigm for enhanced computing environments
[AD-A135808] 09 p1404 N84-19177
Machine intelligence research applied to industrial automation
[PB84-123348] 10 p1473 N84-19618
Artificial intelligence applications to maintenance technology working group report IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A137329] 10 p1503 N84-19827
Logic programming and knowledge base maintenance
[AD-A137062] 10 p1564 N84-20245
Approach to programming multiprocessing algorithms on the Denelcor HEP
[DE84-005440] 10 p1565 N84-20251
Extending grammars to new domains
[AD-A137110] 10 p1567 N84-20266
Artificial intelligence applied to the command, control, communications and intelligence of the US Central Command
[AD-A137205] 10 p1567 N84-20267
Time map maintenance
[AD-A137236] 10 p1567 N84-20268
Automatic planning of fine motions: Correctness and completeness
[AD-A137355] 10 p1568 N84-20269
Research on interactive acquisition and use of knowledge
[AD-A137436] 10 p1568 N84-20270
Three-dimensional locating of industrial parts
[PB84-134790] 11 p1641 N84-20731
Study on extremizing adaptive systems and applications to synthetic aperture radars
[AD-A137725] 11 p1643 N84-20744
Electronics/electrical manufacturing industry research needs
[PB84-122969] 11 p1648 N84-20774
Robotics at Savannah River
[DE84-003482] 11 p1712 N84-21158
Distributed knowledge base systems for diagnosis and information retrieval
[AD-A137828] 11 p1750 N84-21421
Stereo reconstruction study
[AD-A138208] 12 p1836 N84-21970
Natural language processor as a universal front end to expert systems
[AD-A138455] 12 p1878 N84-22236
A natural language interface for a PROLOG database
[AD-A138071] 12 p1880 N84-22254
Top-down statistical estimation on a database
[AD-A138318] 12 p1896 N84-22351
Alternative knowledge acquisition interface structures
[AD-A139019] 13 p2022 N84-23109
Documentation for the machine-readable version of the Survey of the Astrographic Catalogue From 1 to 31 Degrees of Northern Declination (Fresneau 1983)
[NASA-TM-85569] 13 p2071 N84-23421
Research briefings for the Office of Science and Technology Policy, the National Science Foundation and selected federal departments and agencies, 1983
[PB84-161322] 14 p2124 N84-23732
Representing and acquiring geographic knowledge
[AD-A139308] 14 p2169 N84-23994
Problem solving and reasoning
[AD-A138689] 14 p2186 N84-24099
Picking parts out of a bin
[AD-A139257] 14 p2187 N84-24106
Systemic grammar in computation: The Nigel case
[AD-A139251] 14 p2209 N84-24262
Report of the Information Technology Workshop
[PB84-163203] 14 p2248 N84-24500
Methodological preliminaries to the development of an expert system for aerial photo interpretation
[AD-A139899] 15 p2336 N84-25027
An expert distributed robotics system with comprehension and learning abilities in the aircraft flight domain
[AD-A139826] 15 p2384 N84-25300
A knowledge-based system for LP (Linear Programming) modeling
[AD-A139991] 15 p2392 N84-25357
The advantages of abstract control knowledge in expert system design
[AD-A139978] 15 p2396 N84-25370
Strategic explanations for a diagnostic consultation system
[AD-A140014] 15 p2396 N84-25371
Portable environment for research in automated reasoning
[DE84-009212] 15 p2396 N84-25372
Linear associative mappings
[DFVLR-FB-84-01] 15 p2396 N84-25375
A preliminary investigation on the application of robotics to missile fire control
[AD-A140369] 16 p2456 N84-25751
Statistical methods of pattern recognition
[ISBN-2-7225-0694-7] 16 p2544 N84-26330
Travel report from the first International Programming Conference
[FOA-C-20520-D6] 16 p2544 N84-26332
Discourse structures for text generation
[AD-A140278] 16 p2546 N84-26342
Simulation experiments with goal-seeking adaptive elements
[AD-A140295] 16 p2546 N84-26343
Survey of sensitivity analysis methodology
[PB84-166701] 16 p2552 N84-26375
Complemented Scharfetter-Gummel condition 17 p2636 N84-26864
Feedback in robotics for assembly and manufacturing
[PB84-177112] 17 p2675 N84-27044
Is artificial intelligence possible?
[INPE-3007-PRE/453] 17 p2757 N84-27499
The explanation game
[AD-A140681] 17 p2757 N84-27500
Harmony theory: Problem solving, parallel cognitive models and thermal physics
[AD-A140877] 17 p2759 N84-27515
Multivariable digital flight control design of the X-29A
[AD-A140983] 18 p2796 N84-27745
Kinematic control of robot with degenerate wrist
[NASA-TP-2341] 18 p2923 N84-28539
Towards a general scientific reasoning engine
[AD-A141263] 18 p2924 N84-28543
Artificial intelligence applied to spectrum estimation
[AD-A142202] 19 p3007 N84-29062
Pilot interaction with automated airborne decision making systems
[NASA-CR-173782] 19 p3068 N84-29484
A machine learning approach to student modeling
[AD-A141704] 19 p3080 N84-29547
Initial insights on robotics
[DE84-010768] 20 p3197 N84-30302
Strategic computing: New-generation computing technology: A strategic plan for its development and application to critical problems in defense
[AD-A141982] 20 p3266 N84-30721
Logic machine architecture inference mechanisms: Layer 2 user reference manual release 2.0
[DE84-012115] 20 p3267 N84-30728
An algorithm for parsing flow graphs
[AD-A142440] 20 p3273 N84-30773
Design issues in parallel architectures for artificial intelligence
[AD-A142482] 20 p3278 N84-30809
Artificial intelligence and robotics
[AD-A142488] 20 p3278 N84-30810
Design philosophy for reliable systems, including control
[DE84-012681] 20 p3279 N84-30814
Automated planning for intelligent machines in energy-related applications
[DE84-011666] 20 p3279 N84-30815
The curvature primal sketch
[AD-A142480] 20 p3281 N84-30827
Computational aerodynamics and artificial intelligence
[NASA-TM-85994] 21 p3324 N84-31089

Potential application of artificial concepts to aerodynamic simulation
[NASA-TM-85976] 21 p3324 N84-31093
A route generator concept for aircraft onboard fault monitoring
[NASA-TM-86264] 21 p3326 N84-31104
Intelligent instruments for process measurement techniques (monitoring of sensors)
[BMFT-FB-T-84-078] 21 p3407 N84-31611
Basis research on intelligent robotic systems operating in hostile environments: New developments at ORNL
[DE84-011464] 21 p3414 N84-31647
Applying artificial intelligence to large networks
21 p3428 N84-31743
Knowledge-based expert systems for crop identification 21 p3428 N84-31744
Knowledge based engineering for spatial database management and use 21 p3428 N84-31745
The potential of AI techniques for remote sensing
21 p3428 N84-31748
The copycat project: An experiment in nondeterminism and creative analogies
[AD-A142744] 21 p3470 N84-31990
Artificial Intelligence-Robotics applications to Navy aircraft maintenance
[AD-A143219] 22 p3529 N84-32345
Impact of robots and computers on the work force of the 1980's
[GPO-31-912] 22 p3603 N84-32826
Summary of research performed at MIT Laboratory for Computer Science
[AD-A143459] 22 p3638 N84-33064
Rand's experience in applying artificial intelligence techniques to strategic-level military-political war gaming
[P-6977] 22 p3649 N84-33137
Intelligent infrared sensor
[BMFT-FB-T-84-092] 22 p3658 N84-33189
Artificial intelligence theory and reconfigurable control systems
[AD-A143766] 23 p3817 N84-34203
West Europe report: Science and technology, no. 157
[JPRS-84434] 24 p3892 N84-34645
OECD study shows Sweden has highest robot-worker ratio 24 p3892 N84-34648
Midi-robots get underway in September: Lab-industry link 24 p3892 N84-34649
LISP implementation baseline investigation
[AD-A144244] 24 p3946 N84-34983
LOGLISP sequential forms with resolution semantics
[AD-A144413] 24 p3946 N84-34989
SPIRIT: An evolutionally designed intelligent tutoring system
[AD-A144638] 24 p3949 N84-35003
Research on parallelism in problem-solving systems
[AD-A144414] 24 p3954 N84-35036
Report of the Information Technology Workshop
[AD-A144212] 24 p3968 N84-35126

ARTIFICIAL SATELLITES
NT ACTIVE SATELLITES
NT AERONAUTICAL SATELLITES
NT APPLICATIONS EXPLORER SATELLITES
NT ASTRONOMICAL NETHERLANDS SATELLITE
NT BIOSATELLITES
NT COMMUNICATION SATELLITES
NT COSMOS SATELLITES
NT COSMOS 1129 SATELLITE
NT DYNAMICS EXPLORER SATELLITES
NT DYNAMICS EXPLORER 1 SATELLITE
NT DYNAMICS EXPLORER 2 SATELLITE
NT ENVIRONMENTAL RESEARCH SATELLITES
NT ERS-1 (ESA SATELLITE)
NT ESA SATELLITES
NT EUROPEAN COMMUNICATIONS SATELLITE
NT EXOSAT SATELLITE
NT EXPLORER SATELLITES
NT GEODETIC SATELLITES
NT GEOS 1 SATELLITE
NT GEOS 2 SATELLITE
NT GOES SATELLITES
NT GRAVITY GRADIENT SATELLITES
NT GRAVSAT SATELLITE
NT HEAO 1
NT HEAO 2
NT HELIOS A
NT HELIOS B
NT HELIOS SATELLITES
NT HELIOS 1
NT HELIOS 2
NT HIPPARCOS SATELLITE
NT INFRARED ASTRONOMY SATELLITE
NT INTELSAT SATELLITES
NT INTERNATIONAL SUN EARTH EXPLORER 1
NT INTERNATIONAL SUN EARTH EXPLORER 2
NT INTERNATIONAL SUN EARTH EXPLORER 3
NT INTERNATIONAL SUN EARTH EXPLORERS
NT IUE
NT L-SAT
NT LAGEOS (SATELLITE)
NT LANDSAT SATELLITES
NT LANDSAT 4
NT LANDSAT 5
NT LONG DURATION EXPOSURE FACILITY
NT MAGSAT SATELLITES
NT MARITIME SATELLITES
NT MAROTS (ESA)
NT METEOROLOGICAL SATELLITES
NT METEOSAT SATELLITE
NT NAVIGATION SATELLITES
NT NAVSTAR SATELLITES
NT NIMBUS SATELLITES
NT NIMBUS 5 SATELLITE
NT NIMBUS 7 SATELLITE
NT NOAA SATELLITES
NT NOAA 6 SATELLITE
NT NOAA 7 SATELLITE
NT NOAA 8 SATELLITE
NT OAO 3
NT ORBITAL SPACE STATIONS
NT OTS (ESA)
NT PROGNOZ SATELLITES
NT RCA SATCOM SATELLITES
NT RELAY SATELLITES
NT ROSAT MISSION
NT SAN MARCO SATELLITE
NT SARSAT
NT SCATHA SATELLITE
NT SEASAT SATELLITES
NT SEASAT 1
NT SHUTTLE PALLET SATELLITES
NT SIRIO SATELLITE
NT SIRS B SATELLITE
NT SMS 2
NT SOLAR MESOSPHERE EXPLORER
NT SOLAR POWER SATELLITES
NT SPOT (FRENCH SATELLITE)
NT SYNCHRONOUS METEOROLOGICAL SATELLITE
NT SYNCHRONOUS SATELLITES
NT TETHERED SATELLITES
NT TIROS N SERIES SATELLITES
NT UK SATELLITES
NT VENERA SATELLITES
Mission analysis: Definition of orbital geometry of artificial satellites
[INPE-2843-TDL/141] 02 p0184 N84-11194
Acquisition, image and data compression
[AD-A131923] 03 p0360 N84-12344
Satellite measurements of atmospheric aerosols
[AD-A135241] 08 p1190 N84-17757
Simplified analysis of the problem of retrieval for a stabilized artificial satellite by a gravity gradient
[INPE-2756-PRE/332] 09 p1270 N84-18295
The Grand Banks experiment: A satellite/aircraft/ship experiment to explore the ability of specialized radars to define ocean fronts
[AD-A136181] 09 p1304 N84-18522
Aerospace bibliography, seventh edition
[NASA-TM-85438] 09 p1399 N84-19136
More optimal searches
[AD-A136934] 10 p1436 N84-19367
ISEE-3 microwave filter requirements
10 p1475 N84-19632
Astron satellite 12 p1775 N84-21576
Fourier spectrometry research on Venera-15, -16
12 p1775 N84-21582
Stochastic techniques applied to the smoothing treatment of bias and compression of artificial satellite tracking and telemetry data
[INPE-2909-TDL/148] 13 p1938 N84-22604
Comparisons of sea-surface temperature obtained from ship and satellite data
[AD-A138257] 13 p2018 N84-23087
Satellite system survivability
[AD-P002147] 14 p2137 N84-23812
Semi-analytical procedure for the propagation of artificial satellite orbits based on parameter estimation
[INPE-2757-PRE/333] 15 p2270 N84-24628
Numerical orbit generators of artificial earth satellites
[INPE-3050-RPE/455] 16 p2455 N84-25740
Summary of 25 years of spacecraft launching
[AERONOMICA-ACTA-A-34-1983]
16 p2455 N84-25744
Study of in-orbit test techniques for multibeam satellites
[LL3-17] 16 p2456 N84-25748
Observations of the Earth's magnetic field from the Space Station: Measurement at high and extremely low altitude using Space Station-controlled free-flyers
[NASA-TM-86119] 16 p2521 N84-26183
Environmental interactions of polar orbiting satellites
[AD-P002110] 16 p2523 N84-26196
The interaction of large space structures with the near-Earth environment
[AD-P002115] 16 p2523 N84-26201
National Aeronautics and Space Administration
16 p2568 N84-26481
Satellite control by stabilizing flaps
[INPE-2889-TDL/145] 17 p2614 N84-26733
Stability diagrams for a rigid gyrostat in a circular orbit
[UTIAS-TN-243] 17 p2671 N84-27023
Numerical-analytical method for computing movement of 12-hour artificial earth satellites in near-circular orbits
19 p2972 N84-28841
Numeric extension of periodic solutions to Lagrangian system with two degrees of freedom
19 p2972 N84-28843
Quasicircular equatorial orbits of artificial earth satellites with allowance for light pressure
19 p2974 N84-28851
Excess science accommodation capabilities and excess performance capabilities assessment for Mars Geoscience and Climatology Orbiter: Extended study
[NASA-CR-173765] 19 p2978 N84-28882
Radiation testing of GaAs on CRRES and LIPS experiment 19 p3044 N84-29314
Solar cell degradation in proton radiation orbits
19 p3045 N84-29315
Piecewise simulaton proton test of gallium arsenide and thin silicon solar cells 19 p3045 N84-29317
The Motion of Planets and Natural and Artificial Satellites, volume 2 19 p3117 N84-29806
An equality which yields zero velocity surfaces
19 p3117 N84-29810
Formal solutions in a double resonant problem
19 p3118 N84-29813
Comment on coupled perturbations on orbits of artificial earth satellites 19 p3119 N84-29824
Proton-induced single event upsets in 71 Earth-satellite environments
[AD-A142435] 20 p3272 N84-30771
Artificial satellites, orbital motion
[INPE-3163-RPE/458] 23 p3699 N84-33445
A simulation of a satellite power supply system
[INPE-3140-TDL/166] 23 p3699 N84-33446
Prediction model for the life of nickel-cadmium batteries in geosynchronous orbit satellites
23 p3737 N84-33686
Objectives: Activities and needs of the digital simulation laboratory, attitude and orbit control systems, and the thermal control laboratory of the space mechanics and control department
[INPE-3174-RPE/459] 23 p3833 N84-34311
Stochastic control of pitch motion of satellites using stabilizing flaps
[INPE-3235-PRE/584] 24 p3859 N84-34458
History of on-orbit satellite fragmentations
[NASA-CR-171814] 24 p3859 N84-34461
Fabrication of glass gas cells for the HALOE and MAPS satellite experiments
[NASA-TM-86302] 24 p3866 N84-34501

ARTILLERY
Enhanced compressible fluids investigation
[AD-A131622] 02 p0218 N84-11428
Three dimensional stress analysis of an artillery projectile joint
[AD-P002955] 14 p2199 N84-24195

ARTILLERY FIRE
Evaluation of army remotely piloted vehicle mission payload operator performance in simulated artillery missions
[AD-A137602] 11 p1703 N84-21103

ARTS
NT ABILITIES
NT GRAPHIC ARTS
Spacescapes/payloads for the arts: Administrative and technical aspects of the New Wave Ruby Falls Get Away Special Project are reviewed in perspective
16 p2799 N84-27762

ARYABHATA
U INDIAN SPACECRAFT

ARYL COMPOUNDS
U AROMATIC COMPOUNDS

ASBESTOS
Separator development and testing of nickel-hydrogen cells
[NASA-TM-83653] 13 p1955 N84-22712

ASCENT
NT CLIMBING FLIGHT
Ascent air data system results from the space shuttle flight test program 01 p0020 N84-10125
Ice impact testing of space shuttle thermal protection system materials 10 p1509 N84-19880

ASCENT TRAJECTORIES
Shuttle Performance: Lessons Learned, part 1
[NASA-CP-2283-PT-1] 01 p0018 N84-10115

Techniques for assessment of ascent aerodynamic characteristics of the space shuttle launch system
01 p0019 N84-10121
Shuttle Performance: Lessons Learned, part 2
[NASA-CP-2283-PT-2] 01 p0023 N84-10144
The Earth synchronous satellite carrier rocket
[AD-A138504] 12 p1778 N84-21602
A computer model for evaluation of launch vehicle and target tracking error assignments for direct ascent, deep space ASAT (Anti-satellite) systems
[AD-A141136] 20 p3134 N84-29896

ASDE
U AIRPORT SURFACE DETECTION EQUIPMENT

ASHES
NT FLY ASH
Recent solar measurements results at the parabolic dish test site 18 p2875 N84-28253
In-stream distribution and hydraulic and ecological effects of volcanic ash from Mount St. Helens eruption
[PB84-169382] 20 p3230 N84-30525
Chemical evolution of a high-level magma system: The Black Mountain Volcanic Center, Southern Nevada
[DE84-013321] 20 p3243 N84-30587

ASIA
New data on upper mantle literal inhomogeneities in western Eurasia 17 p2703 N84-27217
New facts concerning dessication of Central Asia
18 p2856 N84-28136
Dominant depth of sources in the Kuril-Kamchatka earthquake focal zone from observations by surface and bottom stations 19 p3060 N84-29419
Eolian quartz granulometry as a paleowind indicator in the Northeast Equatorial Atlantic, North Pacific and Southeast Equatorial Pacific 23 p3796 N84-34069

ASPECT RATIO
NT HIGH ASPECT RATIO
NT LOW ASPECT RATIO
Reversed-field pinch large aspect ratio equilibrium
[DE83-016771] 03 p0449 N84-12953
Langley high-lift research on a high-aspect-ratio supercritical wing configuration
18 p2784 N84-27665
Selected advanced aerodynamic and active control concepts development
[NASA-CR-3469] 18 p2786 N84-27683
Nonlinear finite element analysis of shells with large aspect ratio 21 p3420 N84-31692

ASPHALT
Sulfur extended asphalt pavement evaluation in the State of Washington: SR 270 highway pavement performance report
[PB83-205567] 01 p0058 N84-10380
Sulfur extended asphalt pavement evaluation: Executive summary
[PB83-205971] 01 p0058 N84-10381
Evaluation of fabric interlayers
[PB83-253245] 05 p0664 N84-14363
Microwave methods and apparatus for paving and paving maintenance
[DE84-016306] 06 p0822 N84-15359
Evaluation of Chem-Crete high strength modified asphalt concentrate
[PB84-105089] 08 p1172 N84-17636
Investigation of the FAA overlay design procedures for rigid pavements
[AD-A135317] 09 p1259 N84-18222
Development of criteria for the use of asphalt-rubber as a Stress-Absorbing Membrane Interlayer (SAMI)
[AD-A137412] 10 p1471 N84-19608
Criteria for use of asphalt friction surfaces
[PB84-155613] 14 p2135 N84-23798
A study of thermal properties and the heating process in asphaltic concrete
[AD-A141691] 19 p3035 N84-29254
Multi-variate acceptance plans for flexible airport pavements 21 p3345 N84-31220
Mechanistic methodology for airport pavement design with engineering fabrics. Volume 1: Theoretical and experimental base
[DOT/FAA/PM-84-9.1] 24 p3857 N84-34450
Evaluation of the pavement condition index for use on porous friction surfaces
[AD-A144521] 24 p3857 N84-34453

ASPHALTENES
Separation as asphaltenes using high-resolution supercritical-fluid chromatography
01 p0038 N84-10240

ASPHERICITY
Development of production technologies for the series production of optical components with aspheric surfaces
[BMFT-FB-T-84-115] 23 p3727 N84-33620

ASPIRATION
U VACUUM

ASSATEAGUE ISLAND (MD-VA)
Historical and projected shoreline changes: Ocean City and north Assateague Island, Maryland
[PB84-190206] 22 p3628 N84-32987

ASSAYING
Effectiveness of a device for detection of bacteriological aerosols; improvements in standardization and sensitivity in the laboratory
[FOA-C-40175-B2] 10 p1546 N84-20132

ASSEMBLER ROUTINES
Software Implemented Fault-Tolerant (SIFT) user's guide
[NASA-TM-86289] 23 p3817 N84-34199

ASSEMBLIES
NT TAIL ASSEMBLIES
Resilient seal ring assembly with spring means applying force to wedge member — cryogenic applications
[NASA-CASE-MFS-25678-1] 02 p0228 N84-11497
Ultra low loss optical fiber cable assemblies, volume 2
[AD-A132008] 03 p0440 N84-12891
Ultra low loss optical fiber cable assemblies, volume 1
[AD-A132007] 03 p0440 N84-12892
Dynamic behavior of nonuniform tire/wheel assemblies
[PB84-125541] 08 p1167 N84-17596

ASSEMBLING
NT ORBITAL ASSEMBLY
Pulsed heterodyne CO2 laser/scanner system. Volume 1: Assembly report
[AD-A135059] 08 p1164 N84-17577
Feasibility of remotely manipulated welding in space. A step in the development of novel joining technologies
[NASA-CR-175437] 11 p1664 N84-20857
Overall mechanization of assembly and welding processes in the manufacture of ships' structures
12 p1787 N84-21653
Mechanization of assembly and welding operations in manufacture of ship hull structures
12 p1787 N84-21654
Novel method of assembling large multicomponent machine sets 17 p2641 N84-26899
Feedback in robotics for assembly and manufacturing
[PB84-177112] 17 p2675 N84-27044
End-point control of flexible robots
[AD-A144428] 24 p3910 N84-34766

ASSEMBLY LANGUAGE
Assembly language graphics library (EGR1.LB) with Fortran interfacing
[PB83-239624] 03 p0422 N84-12757
Defining of the BDX930 assembly language
15 p2387 N84-25320
Numerical mathematics by vector calculation: Theory and practical experiments 16 p2549 N84-26356
A design method for a state feedback microcomputer controller of a wide bandwidth analog plant
[AD-A142101] 19 p3072 N84-29490
Object code optimization in a standard compiler
[AD-P003520] 21 p3329 N84-31124
An assembly language program for calculating random decrement signatures
[AD-A143908] 23 p3815 N84-34195
Software debugging devices for microprocessors
24 p3941 N84-34952

ASSESSMENTS
NT DAMAGE ASSESSMENT
NT TECHNOLOGY ASSESSMENT
Priorities for detailed quality assessments of the National Defense Stockpile nonfuel materials
[NMAB-403] 13 p2006 N84-23011
Revision and experimental verification of the hazard assessment computer system models for spreading, movement, dissolution, and dissipation of insoluble chemicals spilled onto water, volume 1
[AD-A140635] 17 p2724 N84-27337
System planning tool to measure cost avoidance resulting from independent assessment techniques applied to test program software development
[AD-P003588] 21 p3340 N84-31193
Regional Wind Energy Assessment Program report. Appendix: Wind statistics summaries
[DE84-011835] 21 p3448 N84-31876

ASSIGNMENT
U ALLOCATIONS

ASSIMILATION
Four-dimensional satellite data assimilation
[AD-A139904] 15 p2372 N84-25228

ASSOCIATION REACTIONS
Reactions of negative ions
[AD-A143793] 23 p3714 N84-33541

ASSOCIATIONS
U ORGANIZATIONS

ASSOCIATIVE PROCESSING (COMPUTERS)
Science analysis by knowledge stored in associative networks
[INPE-2784-PRE/350] 09 p1366 N84-18920
Advanced document retrieval system
[AD-A139385] 14 p2247 N84-24498
On extending functional capabilities of cellular-logic devices for database management
24 p3959 N84-35067

ASSURANCE
Management input in quality 08 p1168 N84-17602
Design QA on a small batch project
08 p1168 N84-17603
Measuring quality achievements
08 p1168 N84-17605
Product assurance management and audit systems for ESA spacecraft and associated equipment
[ESA-PSS-01-10-ISSUE-1] 16 p2499 N84-26035
Safety assurance of ESA spacecraft and associated equipment
[ESA-PSS-01-40-ISSUE-1] 16 p2500 N84-26039
Software quality assurance plans
[ESA-PSS-01-101-ISSUE-1] 16 p2500 N84-26041
Quality assurance of test houses for ESA spacecraft and associated equipment
[ESA-PSS-01-203-ISSUE-1] 16 p2500 N84-26042
Software quality assurance programs: Key elements of concern in selected commercial approaches
[DE84-009486] 20 p3274 N84-30785
Aircraft, ships, spacecraft, nuclear plants and quality
[DE84-013262] 22 p3655 N84-33166

ASTEROID BELTS
NT ASTEROIDS

ASTEROIDS
Spectral reflectance of near-earth asteroids: Implications for composition, origin and evolution
05 p0762 N84-15000
Radar investigation of asteroids
[NASA-CR-175350] 07 p1090 N84-17090
Radar investigations of asteroids
[NASA-CR-175348] 07 p1092 N84-17100
A search for Earth-crossing asteroids, supplement
[NASA-CR-173255] 07 p1092 N84-17101
A search for Earth-crossing asteroids
[NASA-CR-175374] 08 p1245 N84-18139
The 433 Eros and 624 Hektor. A physical model for two highly elongated asteroids 09 p1414 N84-19250
Quenched magnetite in cretaceous-tertiary boundary microtekite-like spheroid 11 p1755 N84-21459
Toward a complete inventory of stratospheric dust particles with implications and their classification
11 p1756 N84-21464
Wave drag of elongated astroid bodies at moderate supersonic flight velocities 13 p1972 N84-22797
The planet crossing asteroid survey: Progress in the analysis of populations and terrestrial-planet cratering rates 13 p2075 N84-23449
Planet-crossing asteroid survey
15 p2427 N84-25580
Radar investigation of asteroids
[NASA-CR-173603] 16 p2576 N84-26530
Flights to asteroids with space vehicle maneuvers near Venus, Earth, Mars and Jupiter
19 p2973 N84-28844
Stability and capture of asteroids
19 p3118 N84-29811
A simple theory of Trojan asteroids
19 p3121 N84-29837
The occultation of AG+29 deg 398 by 98 Minerva
[NASA-CR-173827] 20 p3319 N84-31066
Cosmic bombardment
[DE84-011402] 20 p3319 N84-31071
Asteroid light inversion
[NASA-CR-173864] 21 p3523 N84-32316

ASTRO VEHICLE
Payload missions integration
[NASA-CR-170977] 09 p1260 N84-18225

ASTROBIOLOGY
U EXOBIOLOGY

ASTRODYNAMICS
Planetary geometry handbook: Venus positional data, 1988 - 2020, volume 2
[NASA-CR-173192] 07 p1091 N84-17096
Planetary geometry handbook: Mars positional data, 1990 - 2020, volume 3
[NASA-CR-173193] 07 p1091 N84-17097
Planetary geometry handbook: Jupiter positional data, 1985 - 2020, volume 4
[NASA-CR-173194] 07 p1091 N84-17098
Planetary geometry handbook: Saturn positional data, 1985 - 2020, volume 5
[NASA-CR-173195] 07 p1091 N84-17099
Development of baseline random vibration environment criteria for Shuttle pallet payload subsystems
[NASA-TM-86087] 14 p2113 N84-23666
Contribution to the dynamics of extended bodies: Gravitational interaction
[SER-C-268] 18 p2952 N84-28711

Viking radio science data analysis and synthesis — rotation of Mars, solar system dynamics, and gravitational laws
[NASA-CR-173966] 23 p3843 N84-34385

ASTROLOY (TRADEMARK)
Fatigue crack growth and low cycle fatigue of two nickel base superalloys
[NASA-CR-174534] 01 p0042 N84-10267
The cyclic behaviour of a powder Ni-base superalloy — aircraft engines
[PNR-90182] 13 p1961 N84-22743

ASTROMETRY
Fundamental astrometry today and tomorrow 05 p0634 N84-14165
A search for Earth-crossing asteroids, supplement
[NASA-CR-173255] 07 p1092 N84-17101
Applicability of stellar rate for astronomic position determination
[AD-A135845] 10 p1595 N84-20452
Performance of the ESO PDS 18 p2840 N84-28027
Solar variability observed through changes in solar figure and mean diameter
[DE84-013914] 22 p3680 N84-33328

ASTRONAUT MANEUVERING EQUIPMENT
Construction concept for erecting an offset-fed antenna
[NASA-TM-85774] 11 p1623 N84-20626

ASTRONAUT PERFORMANCE
A definition of STS accommodations for attached payloads
[NASA-CR-172223] 01 p0018 N84-10114
Contributions of space medicine to medical research 14 p2251 N84-24517

ASTRONAUTICS
Krasnaya Zvezda on advantages of Cosmos-1443 modular spacecraft 05 p0633 N84-14161
Avduyevskiy on accomplishments and prospects of cosmonautics 05 p0634 N84-14168

ASTRONAUTS
NT ORBITAL WORKERS
Flight of STS-7 with astronauts Captain Robert L. Crippen, Captain Frederick H. Hauck, Colonel John M. Fabian, Doctor Sally K. Ride and Doctor Norman E. Thagard
[GPO-23-872] 02 p0184 N84-11198
Visiting specemen
[NASA-TM-77294] 07 p0960 N84-16226
Mathematical simulation of the cardiopulmonary system
[AD-A135460] 08 p1200 N84-17822

ASTRONOMICAL CATALOGS
First, second and third Herstmonceux catalogues of stars for 1950.0
[BULL-189] 08 p1243 N84-18125
Narrow-band photometry of faint red stars, 2
[BULL-191] 08 p1243 N84-18126
Data set description and bias — in astronomy 09 p1408 N84-19197
Astronomical and statistical algorithms used in the Space Telescope guide star selection system 09 p1409 N84-19206
A classification algorithm for star-galaxy counts 09 p1409 N84-19207
Prediction of spectral classification from photometric data. Application to the MK spectral classification and the Geneva photometric system 09 p1410 N84-19221
Documentation for the machine-readable version of a supplement to the Bright Star catalogue (Hoffleit, Saladyga and Wlasuk 1983)
[NASA-TM-85573] 13 p2070 N84-23415
Documentation for the machine-readable version of the catalogue of 20457 Star positions obtained by photography in the declination zone -48 deg to -54 deg (1950)
[NASA-TM-85572] 13 p2070 N84-23416
Documentation for the machine-readable version of a table of Redshifts for Abell clusters (Sarazin, Rood and Struble 1982)
[NASA-TM-85571] 13 p2070 N84-23417
Documentation for the machine-readable version of the SAO-HD-GC-DM cross index version 1983
[NASA-TM-85570] 13 p2071 N84-23418
Documentation for the machine-readable version of the Smithsonian Astrophysical Observatory Star catalogue (SAO) version 1984
[NASA-TM-85574] 13 p2071 N84-23419
Documentation for the machine-readable version of the general catalogue of 33342 stars for the epoch 1950 (Boss 1937)
[NASA-TM-85568] 13 p2071 N84-23420
Documentation for the machine-readable version of the Survey of the Astrographic Catalogue From 1 to 31 Degrees of Northern Declination (Freeneau 1983)
[NASA-TM-85569] 13 p2071 N84-23421
A catalog of solar white-light flares, including their statistical properties and associated emissions, 1859 - 1982
[AD-A138645] 14 p2251 N84-24521
Arcsecond positions for milliarcsecond VLBI nuclei of extragalactic radio sources, part 2: 207 sources 16 p2478 N84-25890
IUE low dispersion spectra reference atlas. Part 1: Normal stars
[ESA-SP-1052-PT-1] 16 p2576 N84-26531
Research in extragalactic astrophysics
[NASA-CR-173606] 16 p2577 N84-26536
IUE low dispersion spectra reference atlas 24 p3976 N84-35179

ASTRONOMICAL MAPS
Documentation for the machine-readable version of the Survey of the Astrographic Catalogue From 1 to 31 Degrees of Northern Declination (Freeneau 1983)
[NASA-TM-85569] 13 p2071 N84-23421
Pattern recognition for Space Applications Center director's discretionary fund
[NASA-TM-82586] 18 p2951 N84-28710

ASTRONOMICAL MODELS
NT STELLAR MODELS
Origin of the ultra-high-energy cosmic rays
[DE83-013760] 02 p0309 N84-12025
Statistical methods in astronomy — conferences
[ESA-SP-201] 09 p1407 N84-19196
Predictions: Also an astronomical tool 09 p1410 N84-19219
Drift analysis: A forgotten technique — statistical techniques in astronomy 09 p1411 N84-19226
A methodological look at astronomical statistics in the light of unbiased estimation 09 p1411 N84-19229
Self and cross tests of astronomical hypothesis and optimal cutoff bias-free nonparametric estimation 09 p1412 N84-19234
On the frequency of wide pairs among nearby dwarf stars 09 p1412 N84-19236
The life cycle of stars 10 p1594 N84-20450
The role of H/sub 2O in molecular clouds: Line transfer and thermal balance in warm dusty medium 10 p1596 N84-20460
Cometary nucleus and active regions 13 p2075 N84-23450
LHEA contributions to the Future of Ultraviolet Astronomy Based on Six Years of IUE Research
[NASA-TM-86096] 15 p2423 N84-25559
Ultraviolet and X-ray observations of active galactic nuclei: Constraints on models of the broad emission line region 15 p2423 N84-25560
Cosmic rays and the emission line regions of active galactic nuclei
[NASA-TM-86110] 16 p2582 N84-26561
A hybrid N-body/Fokker-Planck stellar dynamical code with application to late core collapse in globular clusters 17 p2775 N84-27620
High resolution surface photometry of elliptical galaxies 17 p2776 N84-27625
Generalized model of lunar gravitational field 19 p2975 N84-28860
Theoretical models for the polarization of astronomical masers 21 p3522 N84-32313
Theoretical study of cepheid light curves
[DE84-012453] 21 p3523 N84-32322
The kinematics of the emission line gas in quasars and active galactic nuclei 21 p3524 N84-32326
Three-dimensional model for fusion processes
[DE84-011731] 21 p3526 N84-32339
Photoionization models of the MgII and CIV selected clouds observed in absorption in QSO spectra 22 p3678 N84-33314
Trapped particle absorption by the Ring of Jupiter
[NASA-CR-173919] 22 p3679 N84-33323
Possible cosmological origin of the ultra high energy cosmic rays
[DE84-013083] 22 p3681 N84-33334
Metal-silicate relationships in differentiated meteorites
[NASA-CR-173929] 23 p3843 N84-34384
Viking radio science data analysis and synthesis — rotation of Mars, solar system dynamics, and gravitational laws
[NASA-CR-173966] 23 p3843 N84-34385
MHD processes in the outer heliosphere
[NASA-TM-86137] 23 p3845 N84-34391
Wet model of Saturn's ionosphere: Water from the rings
[NASA-TM-86144] 24 p3992 N84-35262

ASTRONOMICAL NETHERLANDS SATELLITE
Software flexibility ensured success of Dutch Astronomical Netherlands Satellite (ANS) and Infrared Astronomical Satellite (IRAS) satellites 05 p0725 N84-14758

ASTRONOMICAL OBSERVATORIES
NT GAMMA RAY OBSERVATORY
NT HEAO
NT HEAO 1
NT HEAO 2
NT OAO 3
NT ROSAT MISSION
Work of Estonian Astrophysics and Atmospheric Physics Institute described 01 p0056 N84-10364
Measurement of atmospheric moisture and extinction coefficient in the near infrared at Cima Ekar
[IFSI-83-6] 05 p0782 N84-14999
Meteorological yearbook of Finland, volume 78, part 1b. Climatological data from Jokioinen and Sodankylae Observatories, 1978
[ISBN-951-697-193-8] 07 p1035 N84-16714
Astronomical observatories
[NASA-TM-77295] 07 p1089 N84-17082
The Advanced X-ray Astrophysics Facility. Observing the universe in X-rays
[NASA-EP-199] 12 p1921 N84-22517
Far infrared extinction coefficients of minerals of interest for astronomical observations 16 p2571 N84-26502
Ground-based measurements of solar irradiance variations 17 p2778 N84-27639
Two-dimensional photometry of active regions 17 p2778 N84-27640
The PDS-VAX intelligent plate scanning system of Trieste Astronomical Observatory 18 p2841 N84-28035
The preparation of the measurements at the PDS at the Padova Observatory: Report on an experience with the development of an astronomical data base environment 18 p2843 N84-28050
Astronomical application of IR CID technology
[NASA-CR-166584] 18 p2844 N84-28057
Minor planet observations and a dynamical reference system 19 p3120 N84-29828
Observations of faint planetary satellites with a charge-coupled device 19 p3120 N84-29832
Activities in astronomy
[ISSN-0531-4496] 20 p3319 N84-31067
Large Deployable Reflector Science and Technology Workshop. Volume 3: Systems and Technology Assessment
[NASA-CP-2275-VOL-3] 21 p3523 N84-32318
Large Deployable Reflector Science and Technology Workshop. Volume 3: Systems and technology assessment. Introduction 21 p3523 N84-32319
Technology Panel reports 21 p3523 N84-32320
Large Deployable Reflector Science and Technology Workshop. Volume 3: Systems and technology assessment. Conclusions 21 p3523 N84-32321
Studies of low-mass star formation with the large deployable reflector
[NASA-TM-85960] 21 p3524 N84-32326
Research relative to high energy astrophysics — large area modular array of reflectors, X-ray spectroscopy, and thermal control
[NASA-CR-173878] 22 p3678 N84-33315

ASTRONOMICAL PHOTOGRAPHY
PIRAMIG and PGN experiments 09 p1263 N84-18249
A classification algorithm for star-galaxy counts 09 p1409 N84-19207
Internal calibration of astronomical photographs 09 p1411 N84-19230
The 70 cm Schmidt telescope of Turku University observatory 09 p1414 N84-19252
Galilean satellite multispectral data base production 13 p2087 N84-23521
The automated photographic measuring facility at Cambridge 18 p2842 N84-28043
A preliminary analysis of a diode array for densitometry 18 p2842 N84-28045
Plans for a fast image recording system at ESO 18 p2842 N84-28046
A new measuring machine in Paris 18 p2842 N84-28047
Next generation microdensitometer 18 p2842 N84-28048
Crystal gazing. Part 2: Implications of advanced in digital data storage technology 18 p2842 N84-28049
Photographic surveys of the southern sky 18 p2843 N84-28052
The role of the Automated Plate Measuring (APM) machine in developing a program to discover QSOs automatically 18 p2843 N84-28054
RIMSTAR: Rapid image scanning technology and archiving 18 p2843 N84-28055
New ephemerides for the Galilean Satellites of Jupiter calculated from Sampson-Lieske theory 19 p3119 N84-29825

Observations of mutual phenomena of the Galilean satellites of Jupiter in 1979-1980
19 p3121 N84-29835

ASTRONOMICAL PHOTOMETRY
NT STELLAR SPECTROPHOTOMETRY
Submillimeter astronomy at the NASA/University of Hawaii 3-meter infrared telescope facility
[NASA-CR-173269] 07 p1089 N84-17083
Infrared astronomy research and high altitude observations
[NASA-CR-173526] 13 p2070 N84-23413
Publications resulting from Infrared Astronomy Research and High Altitude Observations
[NASA-CR-173525] 13 p2070 N84-23414
Multi-image photometric solutions for the Galilean satellites 13 p2087 N84-23522
Rapid extraction of relative topography from Viking orbiter images. 2: Application to irregular topographic features 13 p2087 N84-23523
High resolution surface photometry of elliptical galaxies 17 p2776 N84-27625
Astronomical Microdensitometry Conference
[NASA-CP-2317] 18 p2839 N84-28020
Diagnosing a PDS microdensitometer
18 p2839 N84-28021
Performance testing of the high altitude observatory PDS microdensitometer 18 p2839 N84-28022
Photometric and positional accuracy of the PDS Bonn in view of astronomical requirements
18 p2839 N84-28023
Microdensitometer errors: Their effect on photometric data reduction 18 p2839 N84-28024
Automated microdensitometer for digitizing astronomical plates 18 p2841 N84-28039
The Sacramento Peak fast microphotometer
18 p2841 N84-28040
Data compression techniques for astronomy
18 p2842 N84-28041
Techniques of isophotometry
18 p2842 N84-28042
The automated photographic measuring facility at Cambridge 18 p2842 N84-28043
A next generation microdensitometer?
18 p2842 N84-28044
Observations of mutual phenomena of the Galilean satellites of Jupiter in 1979-1980
19 p3121 N84-29835

ASTRONOMICAL SATELLITES
NT HEAO
NT HEAO 1
NT HEAO 2
NT OAO 3

ASTRONOMICAL SPECTROSCOPY
Development of a segmented n-type germanium detector, and its application to astronomical gamma-ray spectroscopy
[NASA-TM-85435] 03 p0461 N84-13039
Observation of winds in cool stars
03 p0468 N84-13084
Activities report of the Institute for Extraterrestrial Physics 13 p2069 N84-23407
Surface compositions in the Aristarchus Region: Implications for regional stratigraphy
13 p2087 N84-23519
A case for olivine on Mars 13 p2087 N84-23520
LHEA contributions to the Future of Ultraviolet Astronomy Based on Six Years of IUE Research
[NASA-TM-86098] 15 p2423 N84-25559
Laboratory and observational infrared spectra of interstellar dust — conferences
[ROE-OR-12] 18 p2947 N84-28683
Studies of X-ray clusters of galaxies/intergalactic plasmas
[NASA-CR-173825] 20 p3319 N84-31068
Fourth European IUE Conference
[ESA-SP-218] 24 p3970 N84-35135

ASTRONOMICAL TELESCOPES
NT INFRARED TELESCOPES
NT PYROHELIOMETERS
NT SPECTROSCOPIC TELESCOPES
NT ULTRAVIOLET TELESCOPES
NT X RAY TELESCOPES
High Resolution Imager (HRI) for the Roentgen Satellite (ROSAT) definition study
[NASA-CR-174598] 03 p0342 N84-12223
A very large array 1411 MHz radio survey: Properties of complete samples of radio and optically selected QSO candidates in a high galactic-latitude field
04 p0618 N84-14076
The rapidly moving telescope: An instrument for the precise study of optical transients
09 p1407 N84-19193
A study of a space-station-associated multiple spacecraft Michelson spatial interferometer
[NASA-CR-175438] 11 p1624 N84-20630
Detection of extrasolar planets by the large deployable reflector
[NASA-TM-85874] 11 p1757 N84-21471
The star splitters: The high energy astronomy observatories
[NASA-SP-466] 12 p1921 N84-22516
Large Deployable Reflector Science and Technology Workshop. Volume 3: Systems and Technology Assessment
[NASA-CP-2275-VOL-3] 21 p3523 N84-32318
Large Deployable Reflector Science and Technology Workshop. Volume 3: Systems and technology assessment. Introduction 21 p3523 N84-32319
Technology Panel reports 21 p3523 N84-32320
Large Deployable Reflector Science and Technology Workshop. Volume 3: Systems and technology assessment. Conclusions 21 p3523 N84-32321
Studies of low-mass star formation with the large deployable reflector
[NASA-TM-85960] 21 p3524 N84-32328
Development of a 60 cm photographic Zenith telescope, and construction of a prototype
[BMFT-FB-T-84-122] 23 p3826 N84-34263

ASTRONOMY
NT GAMMA RAY ASTRONOMY
NT INFRARED ASTRONOMY
NT RADAR ASTRONOMY
NT RADIO ASTRONOMY
NT SPACEBORNE ASTRONOMY
NT ULTRAVIOLET ASTRONOMY
NT X RAY ASTRONOMY
NT X RAY SOURCES
Fourth outer space program of the German Federal Republic
[ISBN-3-88135-111-6] 01 p0017 N84-10110
LIDAR (light detection and ranging) measurements for astronomical refraction. Feasibility and system definition study
[AD-A130740] 01 p0147 N84-10966
Challenges to astronomy and astrophysics: Working documents of the Astronomy Survey Committee
[PB83-203984] 01 p0165 N84-11080
USSR report: Space, no. 25
[JPRS-84946] 05 p0633 N84-14159
Information sources and services in astronomy, astrophysics, and related space sciences
05 p0762 N84-14998
Astronomical observatories
[NASA-TM-77295] 07 p1089 N84-17082
Combined ultraviolet studies of astronomical sources
[NASA-CR-175234] 08 p1242 N84-18121
Proceedings of a workshop: Multidisciplinary Use of the Very Long Baseline Array
[NASA-CR-173541] 15 p2338 N84-25034
Astronautics and aeronautics, 1976. A chronology
[NASA-SP-4021] 15 p2431 N84-25602
Seeing Halley's Comet: A guide for observers in the Northern Hemisphere
[NASA-CR-173604] 16 p2574 N84-26517
An improved logarithmic amplifier circuit for PDS microdensitometers 18 p2841 N84-28034
The VAX/VMS device driver and user operation program for the Midwestern Astronomical Data Reduction and Analysis Facility PDS microdensitometer
18 p2841 N84-28036
Why use a microdensitometer other than a PDS?
18 p2841 N84-28038
Research on 'Prognoz-9' and 'Astron' satellites
19 p2972 N84-28838
Solar-geophysical data number 473. Part 2: (Comprehensive reports) data for July 1983, March 1981 and miscellanea
[PB84-180629] 20 p3320 N84-31074
A search for 183-GHz emission from water in late-type stars
[NASA-TM-85987] 23 p3838 N84-34348
Why Mars? 24 p3990 N84-35249

ASTROPHYSICS
NT SOLAR PHYSICS
Fourth outer space program of the German Federal Republic
[ISBN-3-88135-111-6] 01 p0017 N84-10110
Work of Estonian Astrophysics and Atmospheric Physics Institute described 01 p0056 N84-10364
Challenges to astronomy and astrophysics: Working documents of the Astronomy Survey Committee
[PB83-203984] 01 p0165 N84-11080
Linear and nonlinear models of Mira variable stars
02 p0304 N84-11996
Formation of standing shocks in stellar winds and related astrophysical flows 03 p0469 N84-13088
Review of astrophysical research at Los Alamos
[DE83-017304] 04 p0620 N84-14091
Indirect processes in electron-ion scattering
[DE84-002381] 05 p0745 N84-14897
Information sources and services in astronomy, astrophysics, and related space sciences
05 p0762 N84-14998
Radiation transport in numerical astrophysics
[DE84-002011] 05 p0763 N84-15008
Design of an adiabatic demagnetization refrigerator for studies in astrophysics 06 p0821 N84-15352
Problems in astrophysical radiation hydrodynamics
[DE84-000185] 06 p0939 N84-16102
Satellite-tracking and Earth dynamics research programs
[NASA-CR-173182] 07 p0962 N84-16233
Upgrading and performance of the SAO laser ranging system in Matera
[NASA-CR-173176] 07 p1009 N84-16543
Periods of activity cycles in late-type stars
[NASA-TM-77297] 07 p1091 N84-17094
Commentary on Prognoz-9 satellite
09 p1284 N84-18253
Stellar atmospheric structural patterns
[NASA-SP-471] 09 p1414 N84-19253
Introductory comments on stellar atmospheric structure and its modeling 09 p1414 N84-19254
Inferences on the thermodynamic characteristics of a star from the observed distinctive radial sequences of the distinctive atmospheric regions comprising that stellar atmosphere 09 p1415 N84-19259
Physics, Computer Science and Mathematics Division
[DE84-003915] 09 p1418 N84-19278
Applications for fission product data to problems in stellar nucleosynthesis
[DE84-004819] 10 p1596 N84-20458
Simulations of galaxy mergers
11 p1757 N84-21470
The star splitters: The high energy astronomy observatories
[NASA-SP-466] 12 p1921 N84-22516
Space research and cosmic plasma physics
[TRITA-EPP-83-06] 12 p1922 N84-22520
Central burst of simultaneously rotating and gravitating body 13 p1969 N84-22783
Activities report of the Institute for Extraterrestrial Physics 13 p2069 N84-23407
The energetics and mass structure of regions of star formation
[NASA-TM-85953] 16 p2575 N84-26525
Observational and theoretical studies of rich clusters with multiple subcondensations
[NASA-CR-173618] 16 p2575 N84-26528
Nuclear processes in the jets of SS433
[NASA-TM-86109] 16 p2582 N84-26560
Role of theory in space science
[NASA-CR-173444] 18 p2798 N84-27757
Space station needs, attributes and architectural options study. Volume 7-1: Data book. Science and applications missions
[NASA-CR-173700] 18 p2804 N84-27796
Space station needs, attributes and architectural options study. Volume 7-5B: Data book. Mission analysis part B
[NASA-CR-173711] 18 p2805 N84-27802
Research on 'Prognoz-9' and 'Astron' satellites
19 p2972 N84-28838
Observations of mutual phenomena of the Galilean satellites of Jupiter in 1979-1980
19 p3121 N84-29835
Survey of atmospheric radiation components for the Gamma and Cosmic Ray Astrophysics Branch of the Space Science Division of the Naval Research Laboratory
[AD-A141134] 19 p3124 N84-29845
Results from Astron satellite after one year in orbit
21 p3347 N84-31233
Research in particles and fields — cosmic rays, gamma rays, and cosmic plasma
[NASA-CR-173928] 23 p3845 N84-34392

ASYMMETRY
Microwave measurements of azimuthal asymmetries in accelerating fields of disk-loaded waveguides
[DE83-012705] 02 p0210 N84-11373
Engineering evaluations and studies. Volume 3: Exhibit C
[NASA-CR-171727] 06 p0794 N84-15177
Asymmetric turbulent flows 06 p0837 N84-15451
Preserving asymmetry by symmetric processes and distributed fair conflict resolution
[AD-A135458] 08 p1223 N84-17986
Evaluation of the quality of predictions in the case of a variable with strongly asymmetric distribution — solar flares 09 p1410 N84-19215
Theory of asymmetric double layers
[AD-A136960] 10 p1573 N84-20311
Numerical study of heat transfer in turbulent shear flow
[DE84-005106] 11 p1655 N84-20802
Stationary stochastic asymmetric control
[AD-A137585] 11 p1717 N84-21201

Rank-based inference for linear models: Asymmetric errors
[AD-A138404] 12 p1894 N84-22340
Supersonic three-dimensional jet flow in channel
17 p2646 N84-26928
Method for the preparation of thin-skinned asymmetric reverse osmosis membranes and products thereof
[NASA-CASE-ARC-11359-1] 18 p2894 N84-28361
Weak corrections to the e+-e-yields mu+-mu- asymmetry
[DO-TH-83-16] 20 p3297 N84-30939
Analysis of the solution of the problem of diffraction on an asymmetric impedance half-plane
[ISSN-0208-5658] 23 p3729 N84-33633

ASYMPTOTES
Asymptotic behaviors of the solution of an elliptic equation with penalty terms
[AD-A130473] 01 p0131 N84-10858
On sensitivity, compensation and the approach to the asymptotes in multivariable root-loci
[RR-222] 03 p0426 N84-12795
Tests for preference
[MATH-CENTRE-TRACTS-162]
08 p1217 N84-17939

ASYMPTOTIC METHODS
Robust ABLUE's (Asymptotically Best Linear Unbiased Estimators) for location and scale parameter estimation
[AD-A130752] 01 p0132 N84-10867
Minimum distance estimation of mixture model parameters: Asymptotic results and simulation comparisons with maximum likelihood
[AD-A130426] 01 p0136 N84-10889
Computation of Bessel functions of complex argument and large order
[DE83-014463] 02 p0282 N84-11851
Robust prediction and interpolation for Vector stationary processes
[AD-A130973] 02 p0284 N84-11859
Linear rank procedures for matched observations
[AD-A131338] 02 p0284 N84-11862
Study of an asymptotic method for helicopter rotor blade aerodynamic loads 03 p0327 N84-12135
Asymptotic optimality of shortest path routing
[AD-A132280] 04 p0521 N84-13423
A free-boundary problem arising from a galvanizing process
[AD-A132853] 05 p0655 N84-14304
Numerical analysis of boundary value problem of elliptic type by means penalty and the finite difference and its application to free boundary problem
[AD-A132805] 05 p0736 N84-14834
Stabilization of solutions for a class of parabolic integro-differential equations
[AD-A132821] 05 p0736 N84-14837
Asymptotic analysis of numerical wave propagation in finite difference equations
[NASA-CR-175323] 06 p0822 N84-15360
An algorithm for detecting a change in stochastic process
[AD-A134104] 06 p0900 N84-15842
Acoustic shocks in a variable area duct containing near sonic flows
[NASA-CR-172274] 06 p0906 N84-15897
Diffusion on viscous fluids, existence and asymptotic properties of solutions
[AD-A134538] 07 p1063 N84-16891
On iterative procedures of asymptotic inference
[MC-SW-94/83] 07 p1064 N84-16905
Asymptotic properties of extended Yule-Walker estimates of the AR parameters of an ARMA (autoregressive moving-average)
[AD-A134861] 08 p1221 N84-17970
Asymptotic analysis of weakly guiding anisotropic optical fibers
[REPT-S-136] 09 p1390 N84-19081
Stable response of damped linear systems
10 p1507 N84-19651
Simulation methodology
[AD-A137127] 10 p1592 N84-20436
Bayes least squares linear regression is asymptotically full Bayes: Estimation of spectral densities
[AD-A136351] 12 p1897 N84-22352
Asymptotic condensed phase analysis of deflagrating monopropellants with subsurface exothermicity
13 p1946 N84-22656
Asymptotic models for wave scattering from very rough surfaces 13 p1984 N84-22883
Chaos in optical bistability 14 p2232 N84-24388
Stabilization of a flexible body (hoop-column) antenna by feedback control law 14 p2245 N84-24478
Approximations for expected values of normal order statistics with an application to goodness-of-fit
[AD-A139970] 15 p2400 N84-25401
Asymptotic theory of separation flow
17 p2646 N84-26924
Interaction of turbulent boundary layer and upward density jump at transonic stream velocities
17 p2648 N84-26937
Asymptotic formulas for distribution moments in solution of radiation transfer equation in stochastic medium
17 p2708 N84-27243
The stability and dynamics of elastic structures and fluid flows
[AD-A141206] 18 p2837 N84-28006
Age effects on active duty Army MMPI (Minnesota Multiphasic Personality Inventory) profiles
[AD-P003343] 18 p2911 N84-28464
Status report on asymptotic methods for the analysis, estimation, and control of stochastic dynamic systems
[AD-A140931] 18 p2925 N84-28547
Boundary layer solution for the Rayleigh-Benard convection problem
[MPIS-19/1983] 19 p3026 N84-29189
Asymptotic solutions of dispersive quasi-linear equations
[ISSN-0208-5658] 19 p3081 N84-29552
Global existence of classical solutions to the equations of motion for materials with fading memory
[AD-A141607] 19 p3085 N84-29584
The exit problem for a stochastic dynamical system in a domain with almost everywhere characteristic boundaries
[CWI-AM-R8403] 19 p3092 N84-29635
Asymptotic analysis of a queueing system with a two-dimensional state space
[CWI-OS-R8402] 19 p3092 N84-29637
Estimation of the generalized extreme-value distribution by the method of probability weighted moments
[AD-A141696] 19 p3093 N84-29642
Asymptotic laws of the tests and rupture estimators in a classical statistical model
[ENST-84C001] 19 p3094 N84-29653
Grid-size reduction in flow calculations on infinite domains by higher-order far-field asymptotics in numerical boundary conditions
[NLR-MP-83029-U] 20 p3187 N84-30253
Hopf bifurcation in two-component flow
[AD-A142844] 21 p3400 N84-31568
Asymptotic estimates for resolvents of some nonintegrable Volterra kernels
[AD-A141662] 21 p3471 N84-31999
Variance-stable R-estimators
[AD-A143172] 21 p3475 N84-32024
Robust C(Alpha)-type tests for linear models
[AD-A143177] 22 p3648 N84-33125

ASYMPTOTIC PROPERTIES
Spatial and temporal distribution of Northern Hemisphere snow cover
[PB84-118348] 09 p1350 N84-18819
On the asymptotics of maximum likelihood and related estimators based on type 2 censored data
[AD-A137958] 12 p1896 N84-22348
Asymptotic relative efficiencies of the rank transformation procedure in randomized complete block designs
[DE84-010600] 22 p3649 N84-33134

ASYMPTOTIC SERIES
Asymptotic methods in reliability theory: A review
[AD-A130163] 01 p0092 N84-10600
Asymptotic expansions of the pressure and the free boundary for flows through porous media
[PREPRINT-584] 02 p0221 N84-11448
Weak and strong law results for a function of the spacings
[AD-A130705] 03 p0425 N84-12782
Asymptotic null and nonnull distributions of three multivariate test statistics in Gmanova
[TR-82] 04 p0592 N84-13905
A Berry-Essen bound for symmetric statistics
[MC-SW-95/83] 07 p1067 N84-16929
Transonic flow around protruding corner with free streamline 13 p1972 N84-22796
Asymptotics and numerics
[AD-P002934] 14 p2196 N84-24174
A Finite Integral Transform (FIT) method for differential equations having asymptotic solutions
[AD-P002958] 14 p2200 N84-24198
Local asymptotic approximation of nonlinear control systems
[AD-A139260] 14 p2213 N84-24288
Study of asymptotic theory of transonic wind tunnel wall interference
[AD-A141431] 19 p2958 N84-28751
On estimating a parameter and its score function
[CWI-MS-R8402] 19 p3091 N84-29632
Entire functions for the logistic map 2
[CWI-AM-R8404] 19 p3092 N84-29636
Fundamental research in applied mathematics
[AD-A143123] 21 p3474 N84-32016
Nonnegative matrices in dynamic programming
[MATH-CENTRE-TRACTS-167]
21 p3475 N84-32028
Distribution results for positive definite quadratic forms with repeated roots
[AD-A143450] 22 p3645 N84-33115

ATHEROSCLEROSIS
U ARTERIOSCLEROSIS

ATHLETES
Psychophysics of proprioceptive sensibility
21 p3456 N84-31933

ATHODYDS
U RAMJET ENGINES

ATLANTIC OCEAN
Diagnostic studies of atmospheric blocking patterns
02 p0246 N84-11611
Long SeaSoar CTD sections in the northeast Atlantic Ocean collected during RRS Discovery Cruise 116 --- salinity, temperature, depth (CTD)
[IOS-148] 02 p0258 N34-11692
Pertinent meteorological data for hurricane Allen of 1980
[PB84-104322] 06 p1192 N84-17766
Methodology for the calculation of a shallow-water wave climate
[AD-A134715] 06 p1195 N84-17792
Hydrographic station data of five surveys of the beta-triangle in the eastern North Atlantic, 1978 - 1981
[PB84-100874] 06 p1196 N84-17800
Ion microprobe zircon geochronology of the Ulvak Gneisses: Implications for the evolution of early terrestrial crust in the North Atlantic Craton
11 p1678 N84-20951
Observational evidence for an eddy-driven deep circulation in the North Atlantic
[AD-P002660] 11 p1690 N84-21025
Studies of the velocity structure of the Gulf Stream east of Cape Hatteras
[AD-P002663] 11 p1691 N84-21028
The eddy field of the Central North Atlantic
[AD-P002664] 11 p1691 N84-21029
Short term measurements of omnidirectional ambient noise in the southwest Atlantic during January 1981
[AD-A137666] 11 p1692 N84-21033
Coordination: Southeast Continental Shelf studies
[DE84-004165] 11 p1692 N84-21034
Annual data and verification tabulation Atlantic tropical cyclones, 1983
[PB84-161330] 14 p2181 N84-24067
ONR-Sponsored meeting to discuss South Atlantic and Indian Ocean physical oceanographic research
[AD-A140030] 15 p2374 N84-25242
Diagnostics of rainfall anomalies in the Nordeste during the global weather experiment
[SAPR-1] 16 p2529 N84-26235
Seasonal oscillations of the subtropical convergence between the Brazil and Malvinas currents, using oceanographic and SMS-2 satellite data
[INPE-3092-PRE/497] 16 p2532 N84-26255
Georges Bank monitoring program: Analysis of trace metals in bottom sediments during the second year of monitoring
[PB84-169465] 16 p2534 N84-26269
The depiction of Alboran Sea Gyre during Donde Va? using remote sensing and conventional data
17 p2719 N84-27306
Canyon and slope processes study. Volume 1: Executive summary
[PB84-169481] 17 p2738 N84-27391
Canyon and slope processes study. Volume 2: Physical processes
[PB84-169499] 17 p2738 N84-27392
Symposium Proceedings: A National program for the assessment and development of the mineral resources of the United States Exclusive Economic Zone
[US-CIRC-929] 18 p2866 N84-28192
Chapter 6: The US Geological Survey program and plans in the EEZ 18 p2866 N84-28193
Panel 1A: Geologic studies related to oil and gas development in the EEZ 18 p2866 N84-28194
Charts of the O1, K1, N2, M2, and S2 tides in the Celtic Sea including M2 and S2 tidal currents
[IOS-169] 18 p2893 N84-28360
Seismicity of Iceland and the adjoining region of the Atlantic Ocean 19 p3061 N84-29423
Preliminary studies of the total cation exchange capacity of sediments from two North Atlantic study sites
[IOS-158] 19 p3062 N84-29430
An objective analysis technique for extrapolating tidal fields 20 p3222 N84-30471
Results of ocean-atmosphere interaction studies in West Atlantic 20 p3223 N84-30481
US Navy hindcast spectral ocean wave model climatic atlas: North Atlantic Ocean
[AD-A141810] 20 p3250 N84-30627

Continental shelf processes affecting the oceanography of the South Atlantic Bight
[DE84-010113] 20 p3251 N84-30635
Environmental geologic studies on the United States mid- and north Atlantic outer continental shelf area, 1980-1982. Volume 2: Mid-Atlantic region
[PB84-187947] 20 p3252 N84-30640
Microfacies, depositional environments and diagenesis of the Amapa carbonates (Paleocene - Middle Miocene) Foz Do Amazonas Basin, offshore northeast Brazil
21 p3439 N84-31817
Microfacies, depositional models and diagenesis of Lagoa Feia Formation (lower cretaceous), Campos Basin, offshore Brazil 21 p3440 N84-31827
South Atlantic physical oceanography study (year 5). Volume 1: Executive summary
[PB84-187855] 21 p3451 N84-31899

ATLAS CENTAUR LAUNCH VEHICLE
National Aeronautics and Space Administration
16 p2568 N84-26477
The cart before the horse: Mariner spacecraft and launch vehicles 24 p3990 N84-35250

ATLAS LAUNCH VEHICLES
NT ATLAS CENTAUR LAUNCH VEHICLE

ATMOSPHERES
Electro-optical transmission and liquid water content of fogs and clouds
[AD-A134307] 07 p1039 N84-16738

ATMOSPHERIC & OCEANOGRAPHIC INFORM SYS
Report of the NASA workshop on tidal research
[NASA-CR-173204] 07 p1040 N84-16744

ATMOSPHERIC ABSORPTION
U ATMOSPHERIC ATTENUATION

ATMOSPHERIC ATTENUATION
The effects of atmospheric water vapor absorption on infrared laser propagation in the 5 micrometer band
[AD-A130788] 01 p0087 N84-10566
Atmospheric IR transmission data for a temperate maritime environment
[AD-A131035] 01 p0147 N84-10968
Estimates of millimeter wave attenuation for 18 United States cities
[PB83-240630] 02 p0211 N84-11381
Computed survey spectra of 2-5 micron atmospheric absorption
[AD-A132526] 04 p0563 N84-13708
Summary of ionospheric heating experiments at Tromsoe (Norway) 05 p0635 N84-14178
Measurement of atmospheric moisture and extinction coefficient in the near infrared at Cima Ekar
[IFSI-83-6] 05 p0762 N84-14999
The calculated performance of some radar and transmissometer systems in rain and fog at 35, 94, 140 and 240 GHz, volume 1
[AD-A133587] 06 p0825 N84-15380
Far Infrared Radiometric Spectrometer (FIRRS)
[AD-A133552] 06 p0847 N84-15527
Laser radar analyses
[AD-A133295] 06 p0850 N84-15540
Beam propagation experimental study
[AD-A133310] 06 p0915 N84-15946
Silent radar: A study of the performances of a navigational radar with limited range
[FOA-C-30334-E1] 08 p1146 N84-17461
An investigation of methods for computing long path atmospheric transmittance
[AD-A136434] 09 p1345 N84-18785
Measurements in the presence of nonwhite noise — stellar spectrophotometry 09 p1411 N84-19224
Analysis of the behavior of some types of synchronizer for numerical radio links in the presence of atmospheric multipath transmission
[FUB-57-1982] 10 p1483 N84-19692
The use of dual-polarization radar data to predict attenuation from precipitation on Earth-space paths
[ESA-CR(P)-1845] 12 p1809 N84-21798
Study of the 13 GHz signal attenuation due to tropical rains
[CRPE-NT-113] 13 p1984 N84-22879
An atmospheric millimeter wave propagation model
[AD-A139154] 14 p2176 N84-24033
Calculations of atmospheric transmittance in the 11 micrometer window for estimating skin temperature from VISSR infrared brightness temperatures
[NASA-TM-86105] 15 p2319 N84-24922
Two types of errors made in prediction wave attenuation by rain 15 p2322 N84-24945
A system to measure LOS atmospheric transmittance at 19 GHz 15 p2324 N84-24951
Prediction of multipath fading on terrestrial microwave links at frequencies of 11 GHz and greater
15 p2324 N84-24953
Mesospheric scatter and its microstructure
17 p2684 N84-27090
Effects of pulse width and coding on radar returns from clear air 17 p2684 N84-27092
Scanning wind-vector scatterometers with two pencil beams 17 p2713 N84-27271
Renormalization of seasonals in the additive seasonal model: Is it necessary?
[AD-A140799] 17 p2734 N84-27379
Wavelength selection for a ground based free electron laser weapon system
[AD-A141157] 18 p2846 N84-28072
Atmospheric transmittance model for a solar beam propagating between a heliostat and a receiver
[DE84-007980] 18 p2953 N84-28716
The effect of turbulence on the atmospheric transmittance
[AD-A141133] 19 p3004 N84-29039
The evaluation of prediction models for microwave attenuation by rainfall
[PB84-182104] 20 p3176 N84-30170
Evaluation of the radiometric integrity of LANDSAT-4 Thematic Mapper band 6 data 20 p3207 N84-30375
Resonance absorption of narrow-band laser radiation by atmospheric gases 20 p3225 N84-30493
Aerosol measurements at an optical propagation site on the Outer Hebrides
[AD-A143564] 22 p3625 N84-32972
Determination of microwave attenuation due to the influence of atmospheric gases using the radiometric technique
[INPE-2850-PRE/391] 23 p3730 N84-33637
Differential emission measurement for atmospheric absorption by a ground-based microwave radiometer
23 p3774 N84-33928
Recovery of spectral optical depth and zero-airmass solar spectral irradiance under conditions of temporally varying optical depth 23 p3775 N84-33930
Low and high altitude ionospheric modification experiments 23 p3796 N84-34072
Spatial structures of optical parameters in the California current as measured with the Nimbus-7 coastal zone color scanner
[AD-A144070] 23 p3803 N84-34115
Differential absorption lidar in space for temperature and humidity profiles in the atmosphere
24 p3907 N84-34748

ATMOSPHERIC BOUNDARY LAYER
Proceedings of the Workshop on Coastal Atmospheric Transport Processes
[DE83-015489] 02 p0244 N84-11601
A study of the convective atmospheric boundary and surface layers 02 p0246 N84-11609
Improvement of the scintillation-irregularity model in WBMOD
[AD-A131536] 02 p0249 N84-11632
A study of coherent structures in the near-neutral marine atmospheric boundary layer 03 p0406 N84-12658
Gust structure and gust statistics. Results from an analysis of atmospheric turbulence measurements by using conditional sampling technique
[FFA-TN-1983-28] 03 p0412 N84-12696
Surface heat flux derived from sodar amplitude and frequency data: A comparison
[DE83-017930] 04 p0564 N84-13717
Statistical analysis of turbulence data from the NASA Marshall Space Flight Center atmospheric boundary layer tower array facility — statistical correlations for aircraft design
[NASA-CR-3737] 04 p0566 N84-13730
Rush field experiments: Growth and initial decay of the mixed layer over an autumn landscape
[DE84-001671] 07 p1040 N84-16743
Effect of diabatic and frictional processes on frontal circulations
[PB84-104074] 08 p1193 N84-17778
Sea salt aerosol, atmospheric radon and meteorological observations in the western South Atlantic Ocean (February 1981)
[AD-A134792] 08 p1195 N84-17784
Diffusion of particulate matter and wind speed profile in planetary boundary layer
[AD-A135961] 09 p1345 N84-18790
The behavior of the atmosphere in the desert planetary boundary layer
[AD-A135962] 09 p1345 N84-18791
Theory and modeling of atmospheric turbulence, part 1
[NASA-CR-3787] 09 p1348 N84-18805
An investigation into the sand erosion technique as a means of determining the wind environment around buildings
[BU-294] 15 p2306 N84-24832
Internal gravitation waves in a stably stratified atmosphere
[KBMI-WR-84-1] 15 p2368 N84-25206
The specific humidity profile of the convective atmospheric boundary layer
[KNMI-WR-84-2] 15 p2368 N84-25207
Survey of urban meteorological data
[AD-A140890] 17 p2734 N84-27380
Wind velocity and temperature profiles in atmospheric surface layer for neutral and unstable stratification conditions 18 p2865 N84-28189
Quasigeostrophic movements in barotropic and baroclinic fluid 18 p2865 N84-28191
Report of the WMO/CAS expert meeting on atmospheric boundary layer parameterization over the oceans for long range forecasting and climate models
[WCP-74] 18 p2884 N84-28297
Observing ocean-atmosphere exchanges with space-borne sensors, appendix C
18 p2884 N84-28298
Surface and atmospheric boundary layer. Observations from ships, appendix D 18 p2884 N84-28299
The use of observational studies in the design of oceanic atmospheric boundary layer parameterizations in atmospheric circulation models, appendix E
18 p2884 N84-28300
On mixed-layer models for the atmospheric boundary layer, appendix G 18 p2884 N84-28302
Note on the interaction of the cloud layer and ABL, appendix H 18 p2884 N84-28303
The cloudy marine boundary layer in the meteorological office climate model, appendix I
18 p2885 N84-28304
Comments on atmospheric boundary layer forcing of ocean models, appendix J 18 p2885 N84-28305
Some comments on the atmospheric boundary layer over the ocean and its parameterization, appendix K
18 p2885 N84-28306
Introduction of a finite-element boundary layer model into a regional forecasting model, appendix L
18 p2885 N84-28307
Parameterization of the ABL and OBL in a GFDL model, appendix M 18 p2885 N84-28308
Interaction of the ABL with stratocumulus and cumulus cloud layers, appendix N 18 p2885 N84-28309
Parameterization of the atmospheric boundary layer at ECMWF, appendix O 18 p2885 N84-28310
The demand side flux determination, appendix P
18 p2886 N84-28311
Research study: Organization and development of organized convection in the boundary layer
[NASA-CR-171115] 21 p3398 N84-31552
Dynamical simulation of cloudy boundary layer flow during cold air outbreaks 22 p3624 N84-32964
The effects of latent heat release on the waves with Ekman pumping 24 p3926 N84-34847
Group-kinetic scaling as a basis for modeling large scale turbulence 24 p3926 N84-34848
Morphology and development of organized convection in the boundary layer 24 p3930 N84-34880
Investigation of mesoscale pre-convective forcing mechanisms 24 p3931 N84-34883
Participation in the Mars data analysis program: Global and regional studies of wind-indicators on the surface of Mars
[NASA-CR-173982] 24 p3992 N84-35261

ATMOSPHERIC CHEMISTRY
Kinetic studies of the reactions of CH3O2 with NO2 and OH with HNO3
[AD-A130922] 01 p0105 N84-10685
Mechanism and rates of the gas phase oxidations of sulfur dioxide and the nitrogen oxides in the atmosphere
[PB83-231324] 01 p0106 N84-10691
The development and implementation of techniques to determine the concentrations of environmental pollutants arising from energy production
[DE83-015386] 02 p0244 N84-11599
Remote sensing instruments for trace species measurements in the troposphere and stratosphere: A review 03 p0396 N84-12583
Activities report of the Laboratory of Environmental Physics and Chemistry 03 p0450 N84-12963
Oxygen-18 measurements in the assessment of natural and anthropogenic sulfur in the environment
[DE84-000566] 04 p0560 N84-13690
Proceedings of a Workshop on Assessment of Techniques for Measuring Tropospheric N sub x O sub y
[NASA-CP-2292] 04 p0562 N84-13706
Radiative transfer and photochemistry in the upper atmosphere of Jupiter 04 p0621 N84-14095
Rocket exhaust effects as active space plasma experiments of opportunity 05 p0640 N84-14211
Application of quantum chemistry to atmospheric chemistry — uranium oxide
[AD-A133836] 05 p0648 N84-14261
A molecular orbital study of atmospherically important species
[AD-A133656] 05 p0649 N84-14267
Atomospheric studies pertaining to sulfur in the environment
[DE84-001455] 05 p0701 N84-14597

The 27th AFOSR (Air Force Office of Scientific Research) chemical and atmospheric sciences program review (27th)
[AD-A133718] 05 p0703 N84-14612

Development of analytical methodology for the measurement of chlorine and bromine in the stratosphere
[AD-A132640] 05 p0703 N84-14614

Significant scientific and technical results at Marshal Space Flight Center
[NASA-TM-82562] 06 p0935 N84-16075

Formation of acid deposition: Atmospheric chemical tranformation and deposition
[REPT-107] 07 p1027 N84-16654

Chemical composition of acid precipitation in Texas, volume 1
[DE84-900411] 07 p1027 N84-16659

Arctic haze: Natural or pollution?
[AD-A134263] 07 p1039 N84-16737

The infrared spectral analysis of CF/sub 2Cl/sub 2
[NASA-CR-173196] 07 p1075 N84-16985

Flight tests of instrumentation for airborne carbon dioxide flux measurement
[AD-A135856] 09 p1342 N84-18767

Laboratory investigation of the fate of diesel emissions in the atmosphere
[PB84-118496] 09 p1343 N84-18772

Regional acid deposition: Design and management plan for a comprehensive modeling system
[PB84-116003] 10 p1532 N84-20037

Acid precipitation in southeastern Wyoming
[PB84-132521] 10 p1533 N84-20039

Atmospheric aerosol research for FY 82
[DE84-004308] 11 p1676 N84-20937

Solar-blind Raman lidar, phase 2
[AD-A137604] 11 p1732 N84-21295

Acid rain information book
[DE83-013693] 12 p1845 N84-22028

Three dimensional global modeling of atmospheric CO2
[NASA-TM-85444] 12 p1847 N84-22043

Activities report of the Institute of Meteorology
[AR-82-83] 12 p1861 N84-22126

Effects of mesoscale weather distrubances on contamination concentrations
[DE84-005753] 13 p2010 N84-23036

Kinetic studies of atmospheric reactions of OH radicals 13 p2012 N84-23050

Kinetics and products of the reaction OH + HNO3 13 p2012 N84-23051

The reaction NH2 + PH3 yields NH3 + PH2: Absolute rate constant measurement and implication for NH3 and PH3 photochemistry in the atmosphere of Jupiter
[NASA-TM-85063] 13 p2072 N84-23430

Assessment of ozone as a surrogate for other products of atmospheric photochemical reactions
[PB84-155852] 14 p2177 N84-24042

RANP: Stability Analysis Plot Program
[PB84-161447] 14 p2181 N84-24071

Aerosol growth in a cold environment
[AD-A139907] 15 p2287 N84-24720

Literature review on occurence and methodology for determination of nickel, chromium, manganese and arsenic species in air
[PB84-172105] 16 p2463 N84-25788

Atmospheric volatile hydrocarbon composition at five remote sites in Northwestern North Carolina
[PB84-177930] 17 p2620 N84-26768

Present-day status of investigations of anthropogenic influence on atmospheric ozone 17 p2697 N84-27180

Applications of airborne remote sensing in atmospheric sciences research 17 p2715 N84-27286

Evaluation of meteorological airborne Doppler radar 17 p2715 N84-27287

Atmospheric selenium
[CM-66] 17 p2728 N84-27366

Causes and effects of changes in stratospheric ozone: Update 1983
[PB84-176072] 17 p2729 N84-27368

Proceedings of a Workshop on Research Needs in Heterogeneous Tropospheric Chemistry
[NASA-CP-2320] 18 p2855 N84-28131

Mass spectrometers for studying the ionic and neutral composition of the upper layers of the atmosphere
[AD-A141011] 18 p2879 N84-28282

Atomic collisions and plasma physics
[AD-A141320] 18 p2880 N84-28286

Plasma discharge chemistry
[AD-A141033] 18 p2932 N84-28596

Quantum chemical study of methane oxidation species
[NASA-CR-173819] 19 p2987 N84-28928

A three-dimensional dynamical-chemical model of the mesosphere and lower thermosphere for upper atmospheric research
[AD-A142200] 19 p3054 N84-29379

Tropospheric chemistry 20 p3218 N84-30441

Middle atmospheric science 20 p3219 N84-30448

Atmospheric chemistry of H2O2, NO3, HONO, and HNO3: Influence of aqueous phase and heterogeneous processes
[PB84-183680] 20 p3243 N84-30592

National Center for Atmospheric Research
[PB84-183581] 20 p3249 N84-30621

Temperature oscillations and ozone correlations in the lower stratosphere of Natal (6 deg S)
[INPE-3116-PRE/512] 21 p3443 N84-31844

Studies in atmospheric chemistry. Part 1: Primary peroxides from hydrocarbons. Part 2: elemental analysis using nuclear reactions
[DE84-012246] 21 p3445 N84-31857

Proceedings of a Workshop on Polar Stratospheric Clouds: Their Role in Atmospheric Processes
[NASA-CP-2318] 22 p3622 N84-32952

Composition alteration of stratospheric air due to sampling through a flow tube: Environmental research papers
[AD-A143319] 22 p3623 N84-32959

A national program for data collection platforms: Information techniques for users
[INPE-3137-NTE/219] 24 p3858 N84-34456

Search for exotic molecules in bright comets 24 p3981 N84-35222

Analysis of hydroxyl data from comet Austin 1982g 24 p3981 N84-35223

ATMOSPHERIC CIRCULATION

Diagnosis of the comma cloud of 10 April 1979, abridged report
[AD-A130649] 01 p0108 N84-10701

The FGGE level 3-B daily global analyses, part 1
[PB83-221051] 01 p0109 N84-10709

Tidal and solar cycle effects on the OI 5577 angstrom, NaD and OH(8,3)airglow emissions observed at 23 deg S
[INPE-2901-PRE/419] 02 p0248 N84-11620

Predictability of time averages: The influence of the boundary forcing
[NASA-TM-85092] 02 p0248 N84-11624

On the physical processes responsible for tropical cyclone motion 02 p0252 N84-11648

A comparison of baroclinic eddy heat-transport parameterizations to a simplified general circulation model 02 p0252 N84-11650

Applications of fluid mechanics to meteorology
[INPE-2839-PRE/386] 02 p0253 N84-11655

Mechanisms of monsoonal cyclogenesis 03 p0410 N84-12680

Winds: Chapter 6, 1983 revision. Handbook of Geophysics and Space Environments
[AD-A132018] 03 p0410 N84-12683

Turbulence environment characterization
[AD-A131815] 03 p0411 N84-12692

A galerkin-finite element technique for small-scale atmospheric flows and transport over general terrain
[AD-A132735] 05 p0736 N84-14832

The structure of turbulent entraining flow in an annulus with a rotating screen 06 p0832 N84-15416

Baroclinic instability of atmospheric jets 06 p0877 N84-15704

Alternative experiments using the geophysical fluid flow cell
[NASA-CR-3766] 06 p0877 N84-15706

Possible tidal modulation of the Indian monsoon onset 06 p0879 N84-15721

A comparison study of the energetics of standing and transient eddies between two general circulation models: The GLAS Climate Model and the NCAR Community Climate Model 06 p0880 N84-15726

Development and perturbation analysis of model stochastic equations for global circulation 06 p0883 N84-15743

A preliminary study of the observed vertical mode structure of the summer circulation over tropical South America
[INPE-2914-PRE/428] 07 p1031 N84-16689

Monthly variation of 200 MB flow in the tropics
[INPE-2953-PRE/435] 07 p1032 N84-16695

Blocking in the Southern Hemisphere, during 1975-1979
[INPE-2994-PRE/446] 07 p1032 N84-16696

Tropical heat sources and their associated large-scale atmospheric circulation
[INPE-2727-TDL/133] 07 p1032 N84-16697

A general field theory for vortex structure and interaction
[AD-A134146] 07 p1033 N84-16705

A statistical-dynamical study of the large-scale intraseasonal variability of the northern hemisphere winter circulation 08 p1184 N84-17716

Atmospheric planetary-wave response to external forcing
[NASA-CR-175165] 08 p1186 N84-17726

A climatically-derived global soil moisture data set for use in the GLAS atmospheric circulation model seasonal cycle experiment
[NASA-CR-173269] 08 p1186 N84-17729

Kinetic energy in the northern hemisphere during the FGGE (First GARP Global Experiment) year
[AD-A135382] 08 p1190 N84-17759

Effect of diabatic and frictional processes on frontal circulations
[PB84-104074] 08 p1193 N84-17778

Frontogenesis in a moist atmosphere
[PB84-104066] 08 p1193 N84-17779

FGGE level 3-B daily global analyses. Part 2: (Mar. 1979 - May 1979)
[PB84-100270] 08 p1193 N84-17780

Subsynoptic variations in SEASAT winds
[PB84-131697] 09 p1350 N84-18823

Verification of the radiation budget in numerical models 10 p1535 N84-20059

Using the NOAA-7 AVHRR data to monitor El Chichon aerosol evolution and subsequent sea surface temperatures anomalies 10 p1539 N84-20083

FGGE level 3-B daily global analyses, part 3
[PB84-135854] 10 p1541 N84-20101

Memory efficient solution of the primitive equations for numerical weather prediction on the CYBER 205 10 p1559 N84-20213

Experimental study of turbulent swirling flows 11 p1650 N84-20776

Longwave radiation parameterization for UCLA/GLAS GCM
[NASA-TM-86072] 11 p1681 N84-20971

On the onset of the planetary scale monsoon 11 p1684 N84-20986

Research Review, 1983
[NASA-TM-86053] 12 p1850 N84-22049

Regional correlation between TOMS total ozone from NIMBUS-7 satellite and geopotential height from the GLAS analysis 12 p1851 N84-22056

Multivariate optimum interpolation of surface pressure and winds over oceans 12 p1853 N84-22069

Design of a linear projector for use with the normal modes of the GLAS 4th order GCM 12 p1853 N84-22070

Computational aspects of the nonlinear normal mode initialization of the GLAS 4th order GCM 12 p1853 N84-22071

A user friendly operating system for the GLAS 4th order forecast-analysis system 12 p1853 N84-22072

Empirically derived second order schemes for the advection equations with minimum dissipation and dispersion errors 12 p1853 N84-22073

On the effect of using the Shapiro filter to smooth winds on a sphere 12 p1853 N84-22074

Lagged average forecasting, some operational considerations 12 p1854 N84-22075

Predictability experiments using a low order empirically corrected dynamical model 12 p1854 N84-22077

Investigation of the equatorial orographic-dynamic mechanism applying the bounded derivative method 12 p1854 N84-22078

Postprocessing for the UCLA climate model 12 p1854 N84-22079

The growth, propagation and decay of global scale Rossby waves during FGGE 12 p1854 N84-22080

The simulation of transient statistics of the Southern Hemispheric circulation by the GLAS seasonal cycle model: Preliminary results 12 p1855 N84-22082

Localized blocking accounted for by slow variations of the zonal driving 12 p1855 N84-22083

Teleconnection patterns in the Southern Hemisphere 12 p1855 N84-22084

Ocean fluxes simulated by the GLAS GCM 12 p1855 N84-22085

On the role of the transient eddies in maintaining the seasonal mean circulation 12 p1855 N84-22086

Prospects for improvement of zonal mean temperatures in the UCLA general circulation model 12 p1856 N84-22088

Stratocumulus simulations with a general circulation model 12 p1856 N84-22090

Design of coupled ocean-atmosphere experiments 12 p1856 N84-22093

Development and preliminary tests of a new long-wave radiation parameterization 12 p1857 N84-22097

Simulations of the stratocumulus-topped boundary layer with a third-order closure model 12 p1857 N84-22098

Problems with the process partitioning theory of stratocumulus entrainment 12 p1857 N84-22099

On the bimodality of temperature and moisture near stratocumulus cloud tops 12 p1858 N84-22101
An ensemble formulation of PBL fluxes in a GCM 12 p1858 N84-22102
A new parameterization of 15 micron radiative transfer for a GCM 12 p1858 N84-22105
GCM sensitivity to 1982 - 1983 equatorial Pacific sea surface temperature anomalies 12 p1858 N84-22106
Impact of prescribed diabatic heating on short range weather forecasts 12 p1858 N84-22107
Influence of surface roughness of a desert 12 p1859 N84-22109
Some properties of transient phenomena in the extra-tropical region and their importance in the seasonal mean flow 12 p1859 N84-22112
Low frequency variability and tropical-extratropical interactions 12 p1859 N84-22113
The Amazon and climate
[NASA-CR-173408] 12 p1860 N84-22115
Investigation of the characteristics of the ECMWF model using the P27 system — atmospheric circulation
[KNMI-TR-39] 12 p1861 N84-22127
Effects of mesoscale weather distrubances on contamination concentrations
[DE84-005753] 13 p2010 N84-23036
Prediction of atmospheric flow and dispersion over sloping terrain 13 p2012 N84-23056
The vertical redistribution of a pollutant tracer due to cumulus convection 13 p2013 N84-23057
Documentation of the GLAS fourth order general circulation model. Volume 2: Scalar code
[NASA-TM-86064-VOL-2] 14 p2179 N84-24049
Documentation of the GLAS fourth order general calculation model. Volume 3: Vectorized code for the Cyber 205
[NASA-TM-86064-VOL-3] 14 p2179 N84-24050
Single Doppler velocity signatures: An Atlas of patterns in clean air/widespread precipitation and convective storms
[PB84-155779] 14 p2181 N84-24063
EPA (Environmental Protection Agency) complex terrain model development description of a computer data base from small hill impaction study no. 1, Cinder Cone Butte, Idaho
[PB84-161439] 14 p2182 N84-24072
Wind tunnel modelling of buoyant plumes
[QUEL-1513/84] 15 p2256 N84-24552
The specific humidity profile of the convective atmospheric boundary layer
[KNMI-WR-84-2] 15 p2368 N84-25207
Barotropic studies of stationary extratropical anomalies in the troposphere 16 p2527 N84-26224
On the structure and forcing of tropospheric stationary waves 16 p2527 N84-26225
Land-surface influences on weather and climate
[NASA-CR-173595] 16 p2529 N84-26234
The magnetic field of Mars: Implications from gasdynamics modeling 16 p2573 N84-26515
Effects of aircraft and flight parameters on energy-efficient profile descents in time-based metered traffic
[NASA-CR-172338] 17 p2604 N84-26685
Spectral characteristics of the MST radar returns 17 p2685 N84-27094
A comment on some drawbacks of monostatic radars 17 p2686 N84-27106
On the extraction of atmospheric turbulence parameters from radar backscatter Doppler spectra. Part 1: Theory 17 p2689 N84-27127
Supercritical regimes in Rossby wave propagation 17 p2700 N84-27197
Quasibiennial cycle of thermodynamic atmosphere-ocean interaction in North Atlantic 17 p2700 N84-27198
A scheme for mass and wind analysis on a limited area using multivariate three-dimensional optimum interpolation: Scientific documentation and first evaluation
[KNMI-TR-46] 17 p2734 N84-27382
Applications of satellite observations to the radiation budget, fluxes and the general circulation
[PB83-256818] 17 p2735 N84-27383
Proceedings of a Workshop on Research Needs in Heterogeneous Tropospheric Chemistry
[NASA-CP-2320] 18 p2855 N84-28131
The use of observational studies in the design of oceanic atmospheric boundary layer parameterizations in atmospheric circulation models, appendix E 18 p2884 N84-28300
Interaction of the ABL with stratocumulus and cumulus cloud layers, appendix N 18 p2885 N84-28309
Numerical simulation of thunderstorm gust fronts
[AD-A141214] 18 p2889 N84-28339
Mean upper tropospheric flow over the global tropics, volume 1
[AD-A141227] 18 p2889 N84-28341
The stability of atmospheric fields induced by localized topography and heat sources
[AD-A141357] 19 p3058 N84-29400
Mean upper tropospheric flow over the global tropics, volume 2
[AD-A141484] 19 p3058 N84-29402
Global hydrologic cycle 20 p3217 N84-30434
US average wind power by season
[DE84-012214] 20 p3248 N84-30613
Variability of the convection field pattern in South Florida and its relationship to the synoptic flow
[PB84-177393] 20 p3249 N84-30623
Synoptic scale wind field properties from the SEASAT SASS
[E84-10169] 21 p3426 N84-31732
Three-dimensional computer model for the atmospheric general circulation experiment
[NASA-CR-171109] 21 p3446 N84-31663
Proceedings of the 8th Annual Climate Diagnostics Workshop
[PB84-192418] 21 p3450 N84-31893
Discussion of the Ionian and Levantine Seas
[DE84-011562] 21 p3451 N84-31896
An ocean climate research strategy
[PB84-194828] 21 p3452 N84-31902
Dynamical simulation of cloudy boundary layer flow during cold air outbreaks 22 p3624 N84-32964
Southern oscillation-El Nino events: Characteristics, evolution, and precipitation anomalies
[INPE-2976-PRE/438] 22 p3627 N84-32983
Normal modes of the NCAR (National Center for Atmospheric Research) Community Forecast Model (CFM)
[PB84-191220] 22 p3642 N84-33094
Local climatological investigation of wind fields in the lower Monongahela Valley of Allegheny County, Pennsylvania 23 p3799 N84-34088
Report of the Meeting of Experts on the Design of a Pilot Atmospheric-Hydrological Experiment for the WCRP
[WCP-76] 23 p3801 N84-34100
Report of the Meeting of Experts on Sea Ice and Climate Modelling
[WCP-77] 23 p3801 N84-34101
Large scale tropical heat sources and global atmospheric energy propagation associated with droughts in Northeast Brazil
[INPE-3227-PRE/578] 24 p3918 N84-34806
Transient convection over the Amazon/Bolivia region and the dynamics of drought over northeast Brazil
[INPE-3226-PRE/577] 24 p3922 N84-34823
A synoptic study of the influence of extra-tropical latitude systems on the climatic variability in northeast Brazil
[INPE-3225-PRE/576] 24 p3922 N84-34824
A study of the influence of extra-tropical latitude systems on the climatic variability in Northeast Brazil
[INPE-3264-PRE/595] 24 p3922 N84-34825
NASA/MSFC FY-84 Atmospheric Processes Research Review
[NASA-CP-2329] 24 p3923 N84-34829
Development of a global model for atmospheric backscatter at CO2 wavelengths 24 p3924 N84-34838
The use of satellite data in understanding and predicting convective and large-scale dynamical processes 24 p3925 N84-34842
Dynamics and energetics of the South Pacific convergence zone during FGGE SOP-1 24 p3926 N84-34850
Model study of the atmospheric frontogenesis. 2: Theoretical model 24 p3956 N84-35047

ATMOSPHERIC COMPOSITION
NT ATMOSPHERIC MOISTURE
NT IONOSPHERIC COMPOSITION
Direct biological effects of increased atmospheric carbon dioxide levels
[PB83-224360] 01 p0115 N84-10749
Optimization of GC/MS based Tenax collection method for toxic organics
[PB83-229476] 02 p0222 N84-11455
Properties of the neutral density and composition in the thermosphere
[AD-A131557] 03 p0407 N84-12665
Atmospheric retention of anthropogenic CO2: Scenario dependence of the airborne fraction
[DE83-016854] 04 p0565 N84-13723
National Climate Program
[PB83-253278] 05 p0710 N84-14649
Documentation of NCAR (National Center for Atmospheric Research) CCMOB program modules
[PB83-263996] 05 p0710 N84-14651
Carbon monoxide in the atmospheres of the terrestrial planets 05 p0764 N84-15011
Analysis of severe storm data
[NASA-CR-170947] 06 p0881 N84-15732
A spectrum of methane from 700 to 5500 cm-1
[NASA-CR-175360] 07 p0969 N84-16280
Least squares methods of analyzing spectroscopic data
[NASA-CR-173241] 07 p1059 N84-16858
Least squares methods of analyzing spectroscopic data
[NASA-CR-175335] 07 p1061 N84-16877
The retrieval of atmospheric constituent mixing-ratio profiles from solar absorption spectra
[NASA-CR-173303] 08 p1186 N84-17730
A theoretical analysis of the past variations in global atmospheric composition and temperature structure 08 p1190 N84-17754
Human exposure to atmospheric concentrations to selected chemicals, volume 1
[PB84-102540] 08 p1202 N84-17835
Proposals for VIRA (Venus International Reference Atmosphere): Chemical composition of atmosphere below 100 km
[PR-830] 08 p1244 N84-18134
Investigation of forestry resources and other remote sensing data. 1: LANDSAT. 2: Remote sensing of volcanic emissions
[E84-10092] 10 p1522 N84-19963
Chemical reactions and molecular aggregation in cryogenic whole air sample matrices
[AD-A137879] 11 p1682 N84-20977
Solar-blind Raman lidar, phase 2
[AD-A137604] 11 p1732 N84-21295
A statistical method to sense sea surface temperature from the Nimbus-7 scanning multichannel microwave radiometer 12 p1835 N84-21964
Global energy future and CO2 induced climate change: Executive summary
[PB84-145911] 12 p1862 N84-22133
Simultaneous cabin and ambient ozone measurements on two Boeing 747 airplanes. Volume 2: January to October 1978
[NASA-TM-81733] 12 p1917 N84-22488
Development and operation of a real-time data acquisition system for the NASA, Langley Research Center Differential Absorption Lidar
[NASA-CR-173397] 12 p1918 N84-22495
Observations of major stratospheric chlorine species
[AD-A138646] 13 p2011 N84-23045
MM-wavelength measurements of CO in the atmosphere of Mars and SO2 in the atmosphere of Venus 13 p2072 N84-23429
Origin and evolution of the Saturn system 13 p2073 N84-23433
Measurement of NO, NO/sub 2, and HNO/sub 3 using a tunable diode laser system. Phase 2: Modification to permit automated simultaneous multi-species monitoring and feasibility study of extension to H/sub 2O/sub 2, CH/sub 2O and HONO
[PB84-160076] 14 p2151 N84-23890
Assessment of ozone as a surrogate for other products of atmospheric photochemical reactions
[PB84-155852] 14 p2177 N84-24042
Modeling glacial climates
[NASA-TM-86106] 15 p2371 N84-25221
Mean depths of line formation 15 p2421 N84-25541
Partial frequency redistribution in subordinate lines 15 p2421 N84-25543
A sample performance of the grille spectrometer aboard Spacelab
[AERONOMICA-ACTA-A-281-1984] 16 p2494 N84-26003
Coupling between the thermosphere and the stratosphere: The role of nitric oxide
[AERONOMICA-ACTA-A-270-1983] 16 p2520 N84-26175
Voyager 1 imaging and IRIS observations of Jovian methane absorption and thermal emission: Implications for cloud structure
[NASA-CR-173567] 16 p2579 N84-26544
Atmospheric volatile hydrocarbon composition at five remote sites in Northwestern North Carolina
[PB84-177930] 17 p2620 N84-26768
Stratospheric concentration of nitric acid, ozone and sulphurous carbonyl: Measurement of nitric acid absorption in the Q branch of the v4 band as a function of temperature
[AD-B071596] 17 p2724 N84-27336
First All-Union Symposium on M.A.P.: Conclusion of report 18 p2822 N84-27917
Analysis of metals in atmospheric particules for spectrophotometry of atomic absorption 18 p2877 N84-28269
The problem of climate and climate variations
[WCP-72] 18 p2886 N84-28312

Carbon dioxide emissions from fossil fuels: A procedure for estimation and results for 1950 - 1981
[DOE/NBB-0036] 19 p3052 N84-29365
Global biogeochemistry: An overview
20 p3217 N84-30435
Biogeochemical considerations
20 p3217 N84-30436
Intermediate-range grid model and user's guide for atmospheric sulfur dioxide and sulfate concentrations and depositions: Wisconsin Power Plant Impact Study
[PB84-189257] 20 p3238 N84-30556
Trace constituents measurements deduced from spectrometric observations onboard Spacelab
[AERONOMICA-ACTA-A-286-1984]
20 p3239 N84-30565
Stratospheric NO and NO2 profiles at sunset from analysis of high-resolution balloon-borne infrared solar absorption spectra obtained at 33 deg N and calculations with a time-dependent photochemical model
[NASA-TM-86285] 20 p3240 N84-30566
Response to W. W. Kellogg's Carbon Dioxide and Climatic Change
[DE84-010986] 20 p3241 N84-30577
National Center for Atmospheric Research
[PB84-183581] 20 p3249 N84-30621
A modified standard method for the determination of ozone residual concentration by spectrophotometry
[PB84-204684] 21 p3363 N84-31335
Development of a global model for atmospheric backscatter at CO2 wavelengths
[NASA-CR-171130] 21 p3382 N84-31459
US EPA (Environmental Protection Agency) regional oxidant model, background and overview
[PB84-201680] 21 p3437 N84-31806
Empirical studies of upper atmospheric species
[NASA-CR-172437] 21 p3443 N84-31847
Atmospheric retention of anthrogenic CO2: Scenario dependence of the airborne fraction
[DE84-012079] 21 p3448 N84-31879
CO2 forecasting and control: A mathematical approach
[DE84-013454] 21 p3449 N84-31882
Geophysical monitoring for climatic change Number 11,
[PB84-181841] 21 p3449 N84-31883
Measurement of H2O and other trace gases in the stratosphere using a high resolution far-infrared spectrometer at 26 km
[NASA-CR-173879] 22 p3622 N84-32951
Chemical analysis of ions in rain water in natural regions: Correlations with aerosols in the atmosphere
[INPE-2856-PRE/395] 23 p3792 N84-34052
Preliminary chemical analysis of rain water in Cubatao: Ambient effects
[INPE-2857-PRE/396] 23 p3792 N84-34053
An analysis of possible future atmospheric retention of fossil fuel CO-2
[DOE/OR-21400/1] 23 p3793 N84-34054
Historical carbon dioxide: Abundances derived from the Smithsonian spectrobolograms
[DOE/NBB-0063] 23 p3793 N84-34056
Introduction to simulation of upper atmosphere oxygen satellite exposed to atomic oxygen in low Earth orbit
24 p3863 N84-34479
WMO project on research and monitoring of atmospheric CO2. Report of the WMO(CAS) Meeting of Experts on the CO2 Concentrations from Pre-Industrial Times to I.G.Y.
[REPT-1] 24 p3934 N84-34900
RECOZ data reduction and analysis: Programs and procedures
[NASA-TM-87365] 24 p3944 N84-34973
Device for measuring oxygen
24 p3961 N84-35083
Digital electronic hygrometer
24 p3961 N84-35084
Reorganization and creation of Viking
24 p3991 N84-35253

ATMOSPHERIC CONDITIONS
U METEOROLOGY

ATMOSPHERIC CONDUCTIVITY
NT IONOSPHERIC CONDUCTIVITY
Simulated precipitation reference materials, 4
[PB83-139378] 06 p0883 N84-15742
Estimation of North America anthropogenic sulfur deposition as a function of source/receptor separation
[DE84-003638] 06 p1182 N84-17701

ATMOSPHERIC CORRECTION
LANDSAT 4 band 6 data evaluation
[E84-10001] 02 p0235 N84-11543
LANDSAT 4 band 6 data evaluation
[E84-10012] 02 p0236 N84-11550
Atmospheric correction studies/processing image no. I-100
[INPE-2870-RPE/442] 02 p0239 N84-11568
In-flight absolute radiometric calibration of the thematic mapper
[E84-10044] 04 p0552 N84-13637
Recommended values of the humidity correction factor k sub h for determining exposure in an X-ray beam with free-air chambers
[JEN-542] 04 p0593 N84-13915
Numerical problems for the implantation of an INPE atmospheric correction system for LANDSAT images
[INPE-2801-PRE/361] 05 p0721 N84-14727
Evaluation of thermal data for geologic applications
[NASA-CR-173211] 07 p1033 N84-16703
LANDSAT-D investigations in snow hydrology
[E84-10094] 13 p2003 N84-22997
LANDSAT 4 band 6 data evaluation
[E84-10119] 13 p2005 N84-23009
Understanding and utilization of Thematic Mapper and other remotely sensed data for vegetation monitoring
[E84-10150] 16 p2508 N84-26098
Development of Great Lakes algorithms for the Nimbus-G coastal zone color scanner
[NASA-CR-173511] 17 p2711 N84-27258
Range corrections for airborne radar - A joint STARS study
[AD-A142383] 20 p3174 N84-30154
LANDSAT-4 Thematic Mapper calibration and atmospheric correction 20 p3209 N84-30384

ATMOSPHERIC DENSITY
Range reference atmosphere 0-70Km altitude, Wallops Island, Virginia
[AD-A131327] 02 p0254 N84-11661
Properties of the neutral density and composition in the thermosphere
[AD-A131557] 03 p0407 N84-12665
Variability of atmospheric density in the middle atmosphere
[AD-A131985] 03 p0407 N84-12667
On the determination of the index of refraction of the atmosphere
[AD-A132107] 04 p0563 N84-13713
Measurements of chromospheric densities and geometrical extensions of late-type giant and super-giant stars
[NASA-CR-175236] 07 p1089 N84-17079
Non-gravitational force modelling and altimeter measurement modelling for SEASAT-A satellite
11 p1621 N84-20609
Proposals for VIRA (Venus International Reference Atmosphere): Dynamics and structure below 100 km
[REPT-831] 11 p1758 N84-21475
Characterization of surface reflectance variation effects on remote sensing 12 p1832 N84-21944
Handbook of geophysics and space environments, Chapter 15, 1983 revision: Atmospheric temperature, density and pressure
[AD-A136846] 13 p2017 N84-23076
Density, specific humidity and water vapor elasticity above condensation level 17 p2697 N84-27183
Numerical simulation of thunderstorm gust fronts
[AD-A141214] 18 p2889 N84-28339
Investigation of the external flow analysis for density measurements at high altitude — shuttle upper atmosphere mass spectrometer experiment
[NASA-CR-173881] 22 p3530 N84-32352
Solar tides in the mesospheric sodium layer
[INPE-2942-TDL/151] 22 p3622 N84-32953
System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] 24 p3855 N84-34443
Analysis and programming for research in the physics of the upper atmosphere
[AD-A144203] 24 p3919 N84-34811

ATMOSPHERIC DIFFUSION
Feasibility tests of pipeline pigs for cryogenic pipelines
[DE83-015494] 02 p0206 N84-11343
Transport and diffusion of buoyant material
[AD-A132613] 05 p0708 N84-14642
A model for simulation of a fluctuating plume
[FOA-C-40165-A1(C1)] 08 p1188 N84-17741
Preliminary analysis of results of a mountain area atmospheric diffusion test
[AD-A136502] 09 p1342 N84-18765
An estimation method of vertical diffusion parameters in the mesoscale range
[AD-A136498] 09 p1345 N84-18787
Wave characteristics of temperature inversion process of nighttime radiation
[AD-A136499] 09 p1348 N84-18809
Parametrization of the turbulent diffusion in the atmosphere using the turbulent energy equation(s) — pollution transport
[GKSS-83-E-60] 14 p2174 N84-24019
EPA (Environmental Protection Agency) complex terrain model development description of a computer data base from small hill impaction study no. 1, Cinder Cone Butte, Idaho
[PB84-161439] 14 p2182 N84-24072
Wind tunnel modelling of buoyant plumes
[QUEL-1513/84] 15 p2256 N84-24552
Basic mathematical formulation of the contaminant dispersion processes 18 p2877 N84-28268
Basic mathematical formulation of contaminant dispersions — atmospheric pollution
18 p2878 N84-28274
Diffusion modeling with convective scaling and effects of surface inhomogeneities
[PB84-210053] 22 p3627 N84-32981

ATMOSPHERIC EFFECTS
LANDSAT 4 band 6 data evaluation
[E84-10001] 02 p0235 N84-11543
The Istituto di Ricerca sulle Onde Elettromagnetiche (IROE)-lidar remote sensing of the environment
03 p0396 N84-12590
Clear atmospheric effects on insolation illustrated by broad-band radiometer measurements
06 p0876 N84-15701
A note on atmospheric effects in the Earth's rotation
07 p1030 N84-16678
A theoretical analysis of the past variations in global atmospheric composition and temperature structure
08 p1190 N84-17754
Optical scintillation statistics for infrared ground-to-space laser communication systems
[AD-A136607] 09 p1299 N84-18495
Measurements in the presence of nonwhite noise — stellar spectrophotometry 09 p1411 N84-19224
The shortwave radiation budget depending on the optical parameters of the atmosphere 10 p1535 N84-20054
Multipath propagation at 11, 18, and 36 GHz due to ducting
[FOA-C-20511-E2] 12 p1810 N84-21800
Fundamental remote sensing science research program. Part 1: Scene radiation and atmospheric effects characterization project
[NASA-TM-86078] 12 p1830 N84-21929
NASA fundamental remote sensing science research program 12 p1830 N84-21930
Multidimensional modeling of atmospheric effects and surface heterogeneities on remote sensing
12 p1833 N84-21945
Global energy and CO2-induced climate change
[PB84-145895] 12 p1862 N84-22131
Measurements of atmospheric effects on satellite links at very low elevation angle 15 p2323 N84-24948
Blue-green propagation through clouds
15 p2323 N84-24949
Influence of the environment on the application and drying quality of organic paints — aircraft structures
[SNIAS-832-551-102] 16 p2471 N84-25833
The management of atmospheric resources in food production
[INPE-3121-PRE/514] 16 p2528 N84-26231
Estimating spectral indices from transforms of discrete representations of density functions
[AD-A140164] 16 p2557 N84-26404
Drift movement of aerosol particles in field of atmospheric gravity waves 17 p2708 N84-27242
Range corrections for airborne radar - A joint STARS study
[AD-A142363] 20 p3174 N84-30154
On molecular scattering in the terrestrial atmosphere: An empirical formula for its calculation in the homosphere
[AERONOMICA-ACTA-A-284-1984]
20 p3239 N84-30564
National Center for Atmospheric Research
[PB84-183581] 20 p3249 N84-30621
Analytic techniques for estimating visible image transmission properties of the atmosphere
[AD-A142524] 20 p3300 N84-30954
Atmospheric propagation effects on infrared radars
[AD-A143196] 22 p3576 N84-32651
Optical propagation and communication
22 p3683 N84-33355
Participation in the Mars data analysis program: Global and regional studies of wind-indicators on the surface of Mars
[NASA-CR-173982] 24 p3992 N84-35261

ATMOSPHERIC ELECTRICITY
NT AURORAL ELECTROJETS
NT ELECTROJETS
NT EQUATORIAL ELECTROJET
NT IONOSPHERIC CURRENTS
The rocket-triggered lightning investigation
[AD-A131409] 02 p0249 N84-11631
A systematic characterization of the effects of atmospheric electricity on the operational conditions of aircraft 06 p0776 N84-15086
Correlated measurements of UHF radar signatures, RF radiation and electric field changes from lightning
[NASA-TM-84425] 16 p2481 N84-25907
Spacecraft-aided aerial studies of atmosphere's electrostatic zones 18 p2864 N84-28184

Cosmic rays, solar activity, magnetic coupling, and lightning incidence
[NASA-CR-3812] 19 p3057 N84-29397
Nighttime observations of thunderstorm electrical activity from a high altitude airplane
[NASA-TM-86455] 21 p3405 N84-31597
Mesoscale observations of lightning from Space Shuttle
[NASA-TM-86451] 22 p3598 N84-32788
Nighttime observations of thunderstorm electrical activity from a high altitude airplane
24 p3926 N84-34853
Lightning mapper development: Status and requirements 24 p3927 N84-34854
Lightning Observations above and below clouds
24 p3927 N84-34856
Severe storm electricity 24 p3927 N84-34860

ATMOSPHERIC EMISSION
U AIRGLOW

ATMOSPHERIC ENERGY SOURCES
Large scale tropical heat sources and global atmospheric energy propagation associated with droughts in Northeast Brazil
[INPE-3227-PRE/578] 24 p3918 N84-34806

ATMOSPHERIC ENTRY
NT HYPERSONIC REENTRY
NT REENTRY
A solution-adaptive finite-volume algorithm with application to problems in planetary entry
05 p0678 N84-14457
Numerical techniques for high incidence reentry aerodynamics
[AD-A134178] 07 p0948 N84-16149
Evaluation of a non-catalytic coating for metallic TPS
[NASA-TM-85745] 07 p0974 N84-16312
Nonlinear modeling and initial condition estimation for identifying the aerothermodynamic environment of the Space Shuttle Orbiter
[AD-A136928] 10 p1438 N84-19391
STS-13 (41-C) BET products
[NASA-CR-172350] 20 p3134 N84-29901
Columbia: The first 5 flights entry heating data series. Volume 5: The side fuselage and payload bay door
[NASA-CR-171732] 22 p3541 N84-32416

ATMOSPHERIC ENTRY SIMULATION
Re-entry and simulation
[AD-A135515] 08 p1108 N84-17201

ATMOSPHERIC GENERAL CIRCULATION EXPERIMENT
A sample performance of the grille spectrometer aboard Spacelab
[AERONOMICA-ACTA-A-281-1984]
16 p2494 N84-26003
Theoretical analyses of baroclinic flows
24 p3923 N84-34830
Theoretical flow regime diagrams for the AGCE
24 p3923 N84-34831
Laboratory studies of baroclinic instability at small Richardson number 24 p3924 N84-34835

ATMOSPHERIC HEAT BUDGET
Response of the North American corn belt to climate warming, CO2
[DE83-017873] 04 p0564 N84-13721
Radiation for box budgets — atmospheric heat budget
10 p1535 N84-20058
Mapping of global radiation from Meteosat image data
10 p1536 N84-20065
Reports from the German Meteorological Service, no. 163. Contribution to the classification of waste heat weather situations by means of thermal stratification. Upper Rhine model. Waste heat project, Upper Rhine, part 2
[ISBN-3-88148-206-7] 12 p1849 N84-22048
Applications of satellite observations to the radiation budget, fluxes and the general circulation
[PB83-256818] 17 p2735 N84-27383
A kinetic energy study of the meso beta-scale storm environment during AVE-SESAME 5 (20-21 May 1979)
[NASA-CR-3820] 23 p3800 N84-34090
Report of the Meeting of Experts on the Design of a Pilot Atmospheric-Hydrological Experiment for the WCRP
[WCP-76] 23 p3801 N84-34100

ATMOSPHERIC HEATING
A numerical study of the global axisymmetric circulation with varying heating and rotation rates
02 p0246 N84-11607
Airglow morphology during an ionospheric heating experiment at Platteville, Colorado
[AD-A137869] 11 p1682 N84-20976
Determination of rainfall and condensational heating in the South Pacific convergence zone during FGGE SOP-1 24 p3925 N84-34843
Use of satellite data in a diagnostic parameterization of convective heating 24 p3925 N84-34844

ATMOSPHERIC IMPURITIES
U AIR POLLUTION

ATMOSPHERIC IONIZATION
NT AURORAL IONIZATION
A study of the atmosphere and ionosphere using satellite observations of 300-1400 Ang airglow
[NASA-CR-173146] 07 p1028 N84-16663
User's manual of a program to compute the distribution of photoelectrons — atmospheric ionization
[CRPE-NT-110] 13 p2012 N84-23054
Ion kinetics, minor neutral and excited components in D-region with high level of ionization
19 p2973 N84-28848
Ion makeup in upper atmosphere affected by source of X-ray radiation 19 p2973 N84-28850
Cosmic rays, solar activity, magnetic coupling, and lightning incidence
[NASA-CR-3812] 19 p3057 N84-29397
The search for superionization lines in A dwarf stars
24 p3975 N84-35171
IUE spectra of three A0 V stars rotating close to their break-up velocity: HD 119921, HD 129685, HD 181296
24 p3975 N84-35172

ATMOSPHERIC LASERS
Applications of laser for climatology and atmospheric research
[BLEV-R-65.169-5] 16 p2529 N84-26237
Fundamentals of spaceborne remote sensing: Applications of lasers, volume 1
16 p2529 N84-26238
Spaceborne lasers in atmospheric research
24 p3904 N84-34721
Spaceborne lidar applications to meteorology and environmental studies 24 p3904 N84-34725
The use of TEA and multiatmosphere CO2 lasers in active remote sensing 24 p3907 N84-34749

ATMOSPHERIC LOADING
U POLLUTION TRANSPORT

ATMOSPHERIC MODELS
NT REFERENCE ATMOSPHERES
A stochastic atmospheric model for remote sensing applications
[NASA-CR-172181] 01 p0100 N84-10648
A review of optical data analysis related to the modelling of visible and optical infrared atmospheric properties
[AD-A131486] 01 p0108 N84-10687
Further developments of the A. R. A. P. model for the atmospheric marine environment
[AD-A129862] 01 p0107 N84-10696
Proceedings of the Workshop on Coastal Atmospheric Transport Processes
[DE83-015489] 02 p0244 N84-11601
A numerical study of the global axisymmetric circulation with varying heating and rotation rates
02 p0246 N84-11607
The lapse rate, surface albedo and global climatic stability: Experiments with an annual zonal energy balance model 02 p0246 N84-11610
Horizontal energy propagation and barotropic instability in a quasi-linear model of the atmosphere
02 p0247 N84-11614
Study on the applicability of the international ionospheric model IRI 79 for obtaining electron density profiles
[INPE-2817-PRE/372] 02 p0247 N84-11619
Numerical experiments on the formation and maintenance of cirriform clouds
02 p0252 N84-11649
Range reference atmosphere 0-70Km altitude, Wallops Island, Virginia
[AD-A131327] 02 p0254 N84-11661
Dugway, Utah range reference atmosphere 0-30 Km altitude
[AD-A131110] 02 p0254 N84-11664
The mechanism of meteorological noise
[PB83-241489] 02 p0257 N84-11681
Numerical simulation of convective scaling
03 p0406 N84-12660
Statistical analysis of turbulence data from the NASA Marshall Space Flight Center atmospheric boundary layer tower array facility — statistical correlations for aircraft design
[NASA-CR-3737] 04 p0566 N84-13730
Range reference atmosphere 0-70 km altitude
[AD-A132487] 04 p0567 N84-13737
White Sands Missile Range, New Mexico Range reference atmosphere 0-70 km altitude
[AD-A132471] 04 p0567 N84-13738
The conversion of off-vertical observations of total electron content into equivalent vertical-incidence values
[AD-A132624] 05 p0703 N84-14613
Measurements of optical properties of particulates in an arid region
[AD-A132889] 05 p0709 N84-14644
Data analysis and theoretical studies for atmospheric Explorer C, D and E
[NASA-CR-175121] 06 p0878 N84-15711
Evaluation of 2 1-D cloud models for the analysis of VAS soundings
[NASA-CR-3771] 06 p0881 N84-15729
Range reference atmosphere 0-30 km altitude, Eglin AFB, Florida
[AD-A133506] 06 p0882 N84-15734
Taquac, Guam Island. Range reference atmosphere 0-30 km altitude
[AD-A133618] 06 p0882 N84-15736
LANDSAT-D investigations in snow hydrology
[E84-10074] 07 p1021 N84-16621
Evaluation of performance measures for an urban photochemical model
[PB84-115062] 09 p1343 N84-18771
Theory and modeling of atmospheric turbulence, part 1
[NASA-CR-3787] 09 p1348 N84-18805
Numerical simulation of the forcing of monsoon surges by mid-latitude baroclinic waves
[AD-A136274] 09 p1348 N84-18807
Preliminary study for the modeling of an artificial icing cloud
[AD-A135717] 09 p1349 N84-18813
Tropical cyclone wind probability forecasting for the southern hemisphere (WINDPSH)
[AD-A136146] 09 p1350 N84-18817
Guide to transform software for nonlinear normal-mode initialization of the NCAR community forecast model
[PB84-119130] 09 p1350 N84-18820
El Nino and the southern oscillation: A scientific plan
[PB84-129733] 09 p1351 N84-18825
Speculative-theoretical modeling of the atmosphere enveloping a hypothetical (closed, thermal) star
09 p1414 N84-19255
Regional acid deposition: Models and physical processes
[PB84-115997] 10 p1532 N84-20035
Prediction of total electron content using the International Reference Ionosphere
[AD-A137136] 10 p1536 N84-20066
Statistics of vertical shear from a hemispheric model
[AD-A136179] 10 p1543 N84-20111
Barking Sands, Hawaii. Range reference atmosphere 0-70 km altitude
[AD-A137406] 10 p1590 N84-20421
Non-gravitational force modelling and altimeter measurement modelling for SEASAT-A satellite
11 p1621 N84-20609
Spectroradiometric calibration of the thematic mapper and multispectral scanner system
[NASA-CR-175405] 11 p1671 N84-20905
Atmospheric transmittance/radiance: Computer code LOWTRAN 6
[AD-A137786] 11 p1707 N84-21126
Polarization radiation in the planetary atmosphere delimited by a heterogeneous diffusely reflecting surface
[NASA-TM-77296] 11 p1731 N84-21292
Atmospheric effects on remote sensing of the Earth's surface 12 p1832 N84-21943
Characterization of surface reflectance variation effects on remote sensing 12 p1832 N84-21944
Multidimensional modeling of atmospheric effects and surface heterogeneities on remote sensing
12 p1833 N84-21945
Three dimensional global modeling of atmospheric CO2
[NASA-TM-85444] 12 p1847 N84-22043
Research Review, 1983
[NASA-TM-86053] 12 p1850 N84-22049
Evaluation of glass model precipitation forecasts for North America during SOP-1 12 p1850 N84-22051
Comparison of AMSU temperature soundings with those produced by HIRS and AMTS 12 p1851 N84-22057
Design of a linear projector for use with the normal modes of the GLAS 4th order GCM
12 p1853 N84-22070
Computational aspects of the nonlinear normal mode initialization of the GLAS 4th order GCM
12 p1853 N84-22071
A user friendly operating system for the GLAS 4th order forecast-analysis system 12 p1853 N84-22072
Empirically derived second order schemes for the advection equations with minimum dissipation and dispersion errors 12 p1853 N84-22073
On the effect of using the Shapiro filter to smooth winds on a sphere 12 p1853 N84-22074
Lagged average forecasting, some operational considerations 12 p1854 N84-22075
Investigation of the equatorial orographic-dynamic mechanism applying the bounded derivative method
12 p1854 N84-22078
Postprocessing for the UCLA climate model
12 p1854 N84-22079
The growth, propagation and decay of global scale Rossby waves during FGGE 12 p1854 N84-22080

The simulation of transient statistics of the Southern Hemispheric circulation by the GLAS seasonal cycle model: Preliminary results 12 p1855 N84-22082
Localized blocking accounted for by slow variations of the zonal driving 12 p1855 N84-22083
Ocean fluxes simulated by the GLAS GCM 12 p1855 N84-22085
Prospects for improvement of zonal mean temperatures in the UCLA general circulation model 12 p1856 N84-22088
Stratocumulus simulations with a general circulation model 12 p1856 N84-22090
Horizontal energy propagation in a baroclinic atmosphere with meridional and zonal structure 12 p1857 N84-22096
Development and preliminary tests of a new long-wave radiation parameterization 12 p1857 N84-22097
Simulations of the stratocumulus-topped boundary layer with a third-order closure model 12 p1857 N84-22098
Problems with the process partitioning theory of stratocumulus entrainment 12 p1857 N84-22099
On the bimodality of temperature and moisture near stratocumulus cloud tops 12 p1858 N84-22101
An ensemble formulation of PBL fluxes in a GCM 12 p1858 N84-22102
A note on the temporal behavior of bucket hydrologies 12 p1858 N84-22103
Time dependent land and vegetation canopy temperatures 12 p1858 N84-22104
A new parameterization of 15 micron radiative transfer for a GCM 12 p1858 N84-22105
GCM sensitivity to 1982 - 1983 equatorial Pacific sea surface temperature anomalies 12 p1858 N84-22106
Impact of prescribed diabatic heating on short range weather forecasts 12 p1858 N84-22107
Influence of surface roughness of a desert 12 p1859 N84-22109
A dynamical basis for the parameterization of organized deep convection in large-scale numerical models 12 p1859 N84-22111
The use of trajectories in short range weather forecasting
[KNMI-TR-35] 12 p1861 N84-22126
Investigation of the characteristics of the ECMWF model using the P27 system — atmospheric circulation
[KNMI-TR-39] 12 p1861 N84-22127
Observation model and parameter partials for the JPL VLBI parameter estimation software MASTERFIT-V1.0
[NASA-CR-173455] 12 p1879 N84-22245
Atmospheric turbulence simulation for Shuttle orbiter
[NASA-CR-171013] 13 p1938 N84-22602
Atmospheric model development 13 p2004 N84-22998
Effects of mesoscale weather distrubances on contamination concentrations
[DE84-005753] 13 p2010 N84-23036
Atmospheric correction study/atmospheric model optimization
[INPE-2969-RPE/448] 13 p2010 N84-23040
A middle latitude ionospheric model
[CRPE-NT-114] 13 p2012 N84-23049
Influence of extratropical heteorological phenomenon on the northeast Brazilian climate: A study using finite elements
[INPE-2912-PRE/425] 13 p2016 N84-23072
Martian paleoclimate 13 p2072 N84-23427
MM-wavelength measurements of CO in the atmosphere of Mars and SO2 in the atmosphere of Venus 13 p2072 N84-23429
Millimeter wave attenuation in moist air: Laboratory measurements and analysis
[AD-A139502] 14 p2140 N84-23832
Nimbus-Earth radiation budget instrument analysis
[NASA-CR-172318] 14 p2175 N84-24029
Numerical modeling of ionospheric parameters from global IMS (International Magnetospheric Study) magnetometer data for the CDAW-6 intervals
[PB84-151307] 14 p2177 N84-24041
A spatial model of wind shear and turbulence for flight simulation
[NASA-TP-2313] 14 p2178 N84-24044
Documentation of the GLAS fourth order general circulation model. Volume 1: Model documentation
[NASA-TM-86064-VOL-1] 14 p2179 N84-24048
Wind tunnel modelling of buoyant plumes
[QUEL-1513/84] 15 p2256 N84-24552
Acidification of rain by the oxidation of dissolved SO2 and the absorption of HNO3
[PB84-168368] 15 p2367 N84-25200
Plasma and magnetospheric research
[NASA-CR-171031] 15 p2368 N84-25205
Internal gravitation waves in a stably stratified atmosphere
[KBMI-WR-84-1] 15 p2368 N84-25206
The specific humidity profile of the convective atmospheric boundary layer
[KNMI-WR-84-2] 15 p2368 N84-25207
Global maps of foF2 derived from observations and theoretical values
[PB84-163906] 15 p2369 N84-25215
Vector wind gust model
[NASA-CR-171029] 15 p2371 N84-25222
Stellar Spectra and Their Interpretation. 1st conference of the Subcommission No. 2 15 p2421 N84-25540
Analysis of MgII lines in algol 15 p2422 N84-25547
A model atmosphere analysis of the Am star 68 Tau 15 p2422 N84-25548
A computer program for calculating non-LTE model stellar atmospheres 15 p2423 N84-25554
Model stellar atmosphere and spectrum computations with minicomputer 15 p2423 N84-25555
The radiative cooling resource 16 p2513 N84-26131
Models of the ionospheric environment
[AD-P002121] 16 p2524 N84-26207
On the structure and forcing of tropospheric stationary waves 16 p2527 N84-26225
Nimbus 7 SMMR derived seasonal variations in the water vapor, liquid water and surface winds over the global oceans
[NASA-TM-86060] 16 p2528 N84-26233
Land-surface influences on weather and climate
[NASA-CR-173595] 16 p2529 N84-26234
On the structure of the narrow cold-frontal rainband 16 p2532 N84-26254
Patterns of magnetic field merging sites on the magnetopause 16 p2572 N84-26511
Voyager 1 imaging and IRIS observations of Jovian methane absorption and thermal emission: Implications for cloud structure
[NASA-CR-173567] 16 p2579 N84-26544
On the morphology of the scattering medium as seen by MST/ST radars 17 p2684 N84-27086
The delta S (delta R)-2 question: The pulse-length dependence of signal power for Fresnel scatter 17 p2685 N84-27099
Modeling seasonal evolution of thermal regime of ocean-atmosphere system 17 p2697 N84-27181
The impact of scatterometer wind data on global weather forecasting 17 p2720 N84-27314
Causes and effects of changes in stratospheric ozone: Update 1983
[PB84-176072] 17 p2729 N84-27368
A numerical study of the coastal stratus cloud in a two-dimensioanl meso-scale model 17 p2733 N84-27371
Response of an atmospheric prediction model to time-dependent sea-surface temperatures
[AD-A140730] 17 p2734 N84-27377
Proceedings of a Workshop on Research Needs in Heterogeneous Tropospheric Chemistry
[NASA-CP-2320] 18 p2855 N84-28131
Phenomenology and modeling of heavy gas dispersion
[DE84-008800] 18 p2878 N84-28272
Atomic collisions and plasma physics
[AD-A141320] 18 p2880 N84-28286
Tortuosity of lightning return stroke channels
[NASA-TM-86104] 18 p2883 N84-28295
The use of observational studies in the design of oceanic atmospheric boundary layer parameterizations in atmospheric circulation models, appendix E 18 p2884 N84-28300
Higher-order turbulence models including a cloud layer, appendix F 18 p2884 N84-28301
On mixed-layer models for the atmospheric boundary layer, appendix G 18 p2884 N84-28302
The cloudy marine boundary layer in the meteorological office climate model, appendix I 18 p2885 N84-28304
Parameterization of the ABL and OBL in a GFDL model, appendix M 18 p2885 N84-28308
The problem of climate and climate variations
[WCP-72] 18 p2886 N84-28312
The International Satellite Cloud Climatology Project (ISCCP): Cloud analysis algorithm intercomparison
[WCP-73] 18 p2886 N84-28313
Brookhaven National Laboratory Coastal Meteorology Program, 1972-1983
[DE84-008584] 18 p2891 N84-28349
Cloud recognition from bispectral histograms
[MITT-38] 18 p2891 N84-28352
Atmospheric transmittance model for a solar beam propagating between a heliostat and a receiver
[DE84-007980] 18 p2953 N84-28716
Unbalanced infrared radiation and natural laser effect in atmospheres of Venus and Mars 19 p2975 N84-28858
LANDSAT-D investigations in snow hydrology
[E84-10156] 19 p3039 N84-29277
A three-dimensional dynamical-chemical model of the mesosphere and lower thermosphere for upper atmospheric research
[AD-A142200] 19 p3054 N84-29379
Assessing the impact of climatic change in cold regions
[IIASA-SR-84-1] 19 p3057 N84-29394
Cosmic rays, solar activity, magnetic coupling, and lightning incidence
[NASA-CR-3812] 19 p3057 N84-29397
Theory and modeling of atmospheric turbulence, part 2
[NASA-CR-3817] 19 p3057 N84-29398
The stability of atmospheric fields induced by localized topography and heat sources
[AD-A141357] 19 p3058 N84-29400
A rapid estimation of near earth satellite lifetimes with quasi-dynamic atmospheric model with application to a proposed Brazilian satellite 19 p3119 N84-29823
A method for three-dimensional modeling of wind-shear environments for flight simulator applications
[NASA-TM-85969] 20 p3127 N84-29857
Sea ice 20 p3218 N84-30446
Scientific analysis of existing data on aerosol dispersion and transport in a mountain valley
[AD-A142013] 20 p3238 N84-30555
Stratospheric NO and NO2 profiles at sunset from analysis of high-resolution balloon-borne infrared solar absorption spectra obtained at 33 deg N and calculations with a time-dependent photochemical model
[NASA-TM-86285] 20 p3240 N84-30566
Geophysical plasmas and atmospheric modeling
[AD-A142573] 20 p3240 N84-30572
Mechanisms of interannual ocean-atmosphere interactions
[NASA-CR-173834] 20 p3245 N84-30595
Studies of Chebyshev spectral methods and multigrid methods
[AD-A142014] 20 p3245 N84-30596
Development of a global model for atmospheric backscatter at CO2 wavelengths
[NASA-CR-171130] 21 p3382 N84-31459
Prescription of land-surface boundary conditions in GISS GCM 2: A simple method based on high-resolution vegetation data bases
[NASA-TM-86096] 21 p3430 N84-31761
Lidar observations and modeling of atmospheric mixed layer entrainment processes 21 p3437 N84-31807
A 1-dimensional time dependent model of the stratospheric aerosol 21 p3437 N84-31808
Development of a global model for atmospheric backscatter at CO2 wavelengths
[NASA-CR-171117] 21 p3442 N84-31835
Development of a global model for atmospheric backscatter at CO2 wavelengths
[NASA-CR-171116] 21 p3442 N84-31836
Development of a global model for atmospheric backscatter at CO2 wavelengths
[NASA-CR-171127] 21 p3442 N84-31837
On the zonally averaged temperature in the Southern Hemisphere
[INPE-3139-PRE/528] 21 p3443 N84-31846
AFGL cloud modeling program: Annex
[AD-A143084] 21 p3447 N84-31872
Atmospheric retention of anthrogenic CO2: Scenario dependence of the airborne fraction
[DE84-012079] 21 p3448 N84-31879
Extending normal mode initialization: A new method
[PB84-196435] 21 p3449 N84-31885
A computer calculation and display station for slosh hurricane surge model data
[PB84-198753] 21 p3449 N84-31887
Tropospheric delay effects in radio interferometry 22 p3574 N84-32636
Composition alteration of stratospheric air due to sampling through a flow tube: Environmental research papers
[AD-A143319] 22 p3623 N84-32959
Dynamical simulation of cloudy boundary layer flow during cold air outbreaks 22 p3624 N84-32964
Dynamic model of the Earth's upper atmosphere
[NASA-CR-3835] 22 p3624 N84-32965
Experiments in objective aviation weather forecasting using upper-level steering
[AD-A143393] 22 p3625 N84-32971
Studies in climate
[PB84-196385] 22 p3626 N84-32977
Diffusion modeling with convective scaling and effects of surface inhomogeneities
[PB84-210053] 22 p3627 N84-32981
Normal modes of the NCAR (National Center for Atmospheric Research) Community Forecast Model (CFM)
[PB84-191220] 22 p3642 N84-33094

Computer implementation of a globally averaged model of the world carbon cycle
[DOE/NBB-0062] 23 p3793 N84-34055
The International Satellite Cloud Climatology Project (ISCCP) preliminary implementation plan, revision 1
[WCP-35-REV-1] 23 p3801 N84-34098
Predictability of inversions at Vandenberg (VBG) AFB, California
[AD-A144042] 23 p3802 N84-34107
A boundary layer parameterization for a general model
[AD-A144224] 24 p3915 N84-34791
Vertical mode decomposition and model resolution
[INPE-3230-PRE/580] 24 p3918 N84-34805
Transient convection over the Amazon/Bolivia region and the dynamics of drought over northeast Brazil
[INPE-3226-PRE/577] 24 p3922 N84-34823
NASA/MSFC FY-84 Atmospheric Processes Research Review
[NASA-CP-2329] 24 p3923 N84-34829
The application of satellite data to study the effects of latent heat release on cyclones 24 p3925 N84-34841
Observational and theoretical studies of the evolving structure of baroclinic waves 24 p3925 N84-34845
Regional scale simulation of atmospheric structure using VAS data 24 p3929 N84-34869
Mesoscale ageostrophic circulations associated with baroclinic jet streaks 24 p3930 N84-34875
Cloud scale influences on mesoscale precipitation patterns 24 p3930 N84-34879
Model study of the atmospheric frontogenesis. 2: Theoretical model 24 p3956 N84-35047
Cloud and ice in the planetary scale circulation and in climate
[NASA-CR-173992] 24 p3990 N84-35244

ATMOSPHERIC MOISTURE
Measurement of atmospheric moisture and extinction coefficient in the near infrared at Cima Ekar
[IFSI-83-6] 05 p0762 N84-14999
The influence of the environment on the mechanical characteristics of composite materials: Design considerations — polymer matrix composites
[INTA-INFORME-I-1/221/720/83047] 06 p0811 N84-15281
The movement of water droplets in clouds around the nose of an atmospheric research aircraft
[NASA-TM-77358] 07 p1001 N84-16491
Extensions and applications of a second-order landsurface parameterization
[NASA-CR-175144] 07 p1023 N84-16636
Effect of diabatic and frictional processes on frontal circulations
[PB84-104074] 08 p1193 N84-17778
Frontogenesis in a moist atmosphere
[PB84-104066] 08 p1193 N84-17779
Remote sensing of Earth terrain 12 p1834 N84-21951
Can cloud-top entrainment promote cloud growth? 12 p1857 N84-22100
On the bimodality of temperature and moisture near stratocumulus cloud tops 12 p1858 N84-22101
D-19 evaluating the height of tropospheric conduction of evaporation 15 p2325 N84-24962
The specific humidity profile of the convective atmospheric boundary layer
[KNMI-WR-84-2] 15 p2368 N84-25207
Satellite observations of a monsoon depression
[NASA-CR-173590] 16 p2528 N84-26232
Nimbus 7 SMMR derived seasonal variations in the water vapor, liquid water and surface winds over the global oceans
[NASA-TM-86080] 16 p2528 N84-26233
Land-surface influences on weather and climate
[NASA-CR-173595] 16 p2529 N84-26234
Density, specific humidity and water vapor elasticity above condensation level 17 p2697 N84-27183
Condensational variability of scattering phase function 17 p2707 N84-27240
Peculiarities in determining small contents of atmospheric moisture by surface radio thermal sounding methods 17 p2707 N84-27241
A new technique for monitoring the water vapor in the atmosphere 17 p2716 N84-27293
Diurnal and annual variation of climatic elements in Finland
[T-551.583.13(480)] 18 p2883 N84-28294
Two-dimensional finite amplitude mountain waves in the presence of moisture 22 p3622 N84-32947
Studies in climate
[PB84-196385] 22 p3626 N84-32977
Ground-based remote sensing of temperature and water vapor by passive microwave radiometers 23 p3774 N84-33925
Combined ground-based and satellite remote sensing of temperature 23 p3774 N84-33926
Retrieval of vertical moisture profiles with microwave radiometry 23 p3775 N84-33929
Quantitative determination of aerosol concentrations by lidar with respect to various relative humicities 23 p3780 N84-33968
Report of the Meeting of Experts on the Design of a Pilot Atmospheric-Hydrological Experiment for the WCRP
[WCP-76] 23 p3801 N84-34100
Differential absorption lidar in space for temperature and humidity profiles in the atmosphere 24 p3907 N84-34748
Mesoscale analysis of VAS 6.7 micron image data for several case studies 24 p3930 N84-34873
Satellite Precipitation and Cloud Experiment (SPACE) 24 p3931 N84-34887

ATMOSPHERIC NOISE
U ATMOSPHERICS

ATMOSPHERIC OPTICS
Atmospheric transmittance/radiance computer code FASCOD2
[AD-A130241] 01 p0147 N84-10964
Atmospheric transmittance/radiance: Computer code LOWTRAN 6
[AD-A137786] 11 p1707 N84-21126
Background sources in optical communications
[NASA-CR-173457] 12 p1907 N84-22422
Correlation between the meteorological parameters and the optical strength of atmospheric turbulence close to the ground. Part 3: Results
[BAE-BT-10771] 13 p2016 N84-23070
Adaptive compensation for atmospheric turbulence effects on optical propagation 15 p2325 N84-24960
Effects of atmospheric turbulence on optical propagation 15 p2325 N84-24961
Applications of laser for climatology and atmospheric research
[BLEV-R-65.169-5] 16 p2529 N84-26237
Definition and design of spaceborne lidar instruments 16 p2529 N84-26240
Foundations of a numerical model of slant visibility
[ESA-TT-757] 16 p2557 N84-26403
Condensational variability of scattering phase function 17 p2707 N84-27240
Accuracy of one approximate method for computing radiative fluxes in presence of broken clouds 20 p3225 N84-30491
Interpreting spectra of sea surface aerial photographs 20 p3225 N84-30494
The DFVLR contrast transmittance model SCOTRAN-program system: Description and operating instruction
[DFVLR-FB-84-18] 20 p3243 N84-30589
Atmospheric contrast transmittance monitor
[AD-D011167] 23 p3798 N84-34083

ATMOSPHERIC PHYSICS
NT CLOUD PHYSICS
Work of Estonian Astrophysics and Atmospheric Physics Institute described 01 p0056 N84-10364
Atmospheric Sciences Division
[DE83-014429] 01 p0098 N84-10639
Geophysical Fluid Dynamics Laboratory activities FY1982, plans-FY1983
[PB83-232827] 01 p0101 N84-10657
Description of NCAR (National Center for Atmospheric Research) community climate model (CCMOB)
[PB83-231068] 01 p0110 N84-10715
Diagnostic studies of atmospheric blocking patterns 02 p0246 N84-11611
A climatology of synoptic scale atmospheric structure prior to severe convective storms 02 p0253 N84-11653
Proceedings of 1st International Workshop on Atmospheric Icing of Structures
[AD-A131669] 03 p0411 N84-12690
Activities report of the Laboratory of Environmental Physics and Chemistry 03 p0450 N84-12963
Analytical investigation of meso-scale boundary layer forced by surface temperature variation in a stratified sheared atmosphere 04 p0562 N84-13702
Air mass computer program for atmospheric transmittance/radiance calculation: FSCATM
[AD-A132108] 04 p0563 N84-13712
An experimental device for real time determination of slant path atmospheric contrast transmittance (prototype status)
[AD-A134000] 05 p0702 N84-14610
Significant scientific and technical results at Marshal Space Flight Center
[NASA-TM-82562] 06 p0935 N84-16075
Kinetic energy in the northern hemisphere during the FGGE (First GARP Global Experiment) year
[AD-A135382] 08 p1190 N84-17759
Magnetospheric and atmospheric physics at the University of Natal 09 p1344 N84-18778
USSR report: Earth sciences
[JPRS-UES-84-003] 11 p1669 N84-20891
Activities report of the Institute of Meteorology
[AR-82-83] 12 p1861 N84-22128
Channel cooling by turbulent convective mixing
[AD-A139724] 15 p2410 N84-25466
Experimental test of the gravitational inverse square law between 45 centimeters and one meter 16 p2526 N84-26221
The Arecibo Observatory as an MST radar 17 p2691 N84-27138
Capabilities and limitations of the Sondrestrom radar for ST observations 17 p2691 N84-27139
Design considerations of a proposed UK VHF radar 17 p2692 N84-27142
USSR report: Earth sciences
[JPRS-UES-84-004] 17 p2696 N84-27177
Radiative heat exchange in atmosphere disturbed by volcanic eruption 17 p2696 N84-27184
Influence of tropospheric aerosol on integral albedo of cloudy atmosphere. Underlying surface system 17 p2707 N84-27236
USSR report: Earth sciences
[JPRS-UES-84-005] 18 p2855 N84-28132
Aerosol chamber of Atmospheric Optics Institute 18 p2864 N84-28183
USSR report: Earth sciences
[JPRS-UES-84-006] 20 p3223 N84-30479
Results of ocean-atmosphere interaction studies in West Atlantic 20 p3223 N84-30481
Changes in Earth's rotation rate caused by zonal tide and their manifestations in atmospheric pressure field 20 p3224 N84-30487
Environmental Research Laboratories publication abstracts, FY 1983
[PB84-189323] 21 p3450 N84-31892
Study of the system of middle atmosphere-ionosphere using remote-sensing data
[NASA-TM-77764] 23 p3797 N84-34074
Introduction to atmospheric geophysics
[INPE-3169-PRE/539] 23 p3797 N84-34079
Analysis and programming for research in the physics of the upper atmosphere
[AD-A144203] 24 p3919 N84-34811
Lightning Observations above and below clouds 24 p3927 N84-34856
The optical characteristics of lightning 24 p3927 N84-34858
Model study of the atmospheric frontogenesis. 2: Theoretical model 24 p3956 N84-35047
A general scientific information system to support the study of climate-related data
[NASA-TM-86152] 24 p3968 N84-35128

ATMOSPHERIC PRESSURE
NT CYCLOGENESIS
Atlas of mean sea-level pressure
[AD-A130207] 01 p0107 N84-10697
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F. Cape Romanzof AFS, Alaska
[AD-A130206] 01 p0107 N84-10698
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F. Lemoore NAS, California
[AD-A130205] 01 p0108 N84-10699
Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F. Cape Lisburne Alaska AFS
[AD-A131194] 01 p0109 N84-10705
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F. Brize Norton RAF, United Kingdom
[AD-A131621] 02 p0254 N84-11663
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F. Indian Mountain AFS, Alaska
[AD-A131195] 02 p0255 N84-11668
Atmospheric-pressure argon afterglows as a detector for gas chromatography
[DE83-017695] 03 p0351 N84-12282
Range reference atmosphere 0-70 km altitude
[AD-A132487] 04 p0567 N84-13737
White Sands Missile Range, New Mexico Range reference atmosphere 0-70 km altitude
[AD-A132471] 04 p0567 N84-13738
Remote sensing of atmospheric pressure and sea state from satellites using short-pulse multicolor laser altimeters 06 p0872 N84-15674
Meteorological yearbook of Finland, volume 78, part 1b. Climatological data from Jokioinen and Sodankylae Observatories, 1978
[ISBN-951-697-193-8] 07 p1035 N84-16714
Climatological statistics in Finland, 1961 - 1980 07 p1035 N84-16715

Eielson AFB, Alaska. Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F
[AD-A134198] 07 p1036 N84-16723
McGuire AFB, New Jersey. Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F
[AD-A134199] 07 p1036 N84-16724
Duluth, Duluth IAP, Minnesota. Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F
[AD-A134200] 07 p1037 N84-16725
King Salmon, Alaska. Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F
[AD-A134201] 07 p1037 N84-16726
Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F. Kitzingen, West Germany
[AD-A134202] 07 p1037 N84-16727
Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F. Adak NAS, Alaska
[AD-A134203] 07 p1037 N84-16728
Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F. Loring AFB, Maine
[AD-A134204] 07 p1037 N84-16729
Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F. Buckley ANGB, Colorado
[AD-A134205] 07 p1038 N84-16730
Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F. Elmendorf AFB, Alaska
[AD-A134206] 07 p1038 N84-16731
Limited Surface Observations Climatic Summary (LISOCS). Ft. Richardson, Alaska
[AD-A134207] 07 p1038 N84-16732
Limited Surface Observations Climatic Summary (LISOCS). Colonel A J Bo Baker AAF, West Germany
[AD-A134209] 07 p1038 N84-16734
Limited Surface Observations Climatic Summary (LISOCS). Coleman AAF, West Germany
[AD-A134210] 07 p1038 N84-16735
Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F. Galena AFS, Alaska
[AD-A134211] 07 p1039 N84-16736
A comparison of sea ice model results using three different wind forcing fields
[AD-A134462] 07 p1040 N84-16746
A quasi-lagrangian diagnostics investigation of rapid cyclogenesis in a polar air stream
[AD-A136844] 10 p1540 N84-20091
Theoretical and experimental analysis of laser altimeters for barometric measurements over the ocean
[NASA-CR-175443] 11 p1682 N84-20842
Comments on laser-excited fluorescence of the hydroxyl radical: Relaxation coefficients at atmospheric pressure, appendix 5
[NASA-CR-175442] 11 p1682 N84-20843
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Dyess AFB, Texas
[AD-A137575] 11 p1685 N84-20991
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Part A-F: Phillips, Aberdeen, Maryland
[AD-A137577] 11 p1685 N84-20993
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Gela, Italy
[AD-A137578] 11 p1686 N84-20994
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Dhahran, Saudi Arabia
[AD-A137580] 11 p1686 N84-20995
Limited Surface Observations Climatic Survey (LISOCS), Baumholder, West Germany
[AD-A137582] 11 p1686 N84-20997
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Andersen AFB, Guam
[AD-A137583] 11 p1686 N84-20998
Proposals for VIRA (Venus International Reference Atmosphere): Dynamics and structure below 100 km
[REPT-831] 11 p1758 N84-21475
Effect of high latitude filtering on NWP skill
12 p1852 N84-22066
Ascension Island, South Atlantic Range reference atmosphere, 0.66 km altitude
[AD-A138470] 12 p1861 N84-22122
Handbook of geophysics and space environments, Chapter 15, 1983 revision: Atmospheric temperature, density and pressure
[AD-A138646] 13 p2017 N84-23076
Gas pressure sintering of Beta-Sialon with Z=3
[NASA-TM-77421] 14 p2129 N84-23765
Evaluation of gas-cooled pressurized phosphoric acid fuel cells for electric utility power generation
[NASA-CR-168296] 15 p2362 N84-25169
Limited surface observations climatic summary (Lisocs). Schwaebisch Hall West Germany
[AD-A140242] 16 p2530 N84-26242
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Plattsburgh AFB, New York
[AD-A140244] 16 p2530 N84-26244
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: McGhee-Tyson Airport, Tennessee
[AD-A140245] 16 p2530 N84-26245
Cross-spectral analysis of atmospheric pressure microfluctuations and low-frequency sea level changes
17 p2699 N84-27196
Quasibiennial cycle of thermodynamic atmosphere-ocean interaction in North Atlantic
17 p2700 N84-27198
Diurnal and annual variation of climatic elements in Finland
[T-551.583.13(480)] 18 p2883 N84-28294
USSR report: Earth sciences
[JPRS-UES-84-006] 20 p3223 N84-30479
Dependence of blood coagulating and fibrinolytic systems on functional state of lysosomal system of neutrophil leukocytes during exposure of the body to low barometric pressure 20 p3255 N84-30661
Investigation into the internal aerodynamic design and associated errors in a fast descent ducted sonde for the measurement of atmospheric pressure and temperature (AMPARS phase 2)
[AD-A143189] 22 p3625 N84-32969
Experimental validation of a millimeter wave radar technique to remotely sense atmospheric pressure at the Earth's surface 23 p3775 N84-33935

ATMOSPHERIC RADIATION
NT AIRGLOW
NT AURORAL ARCS
NT AURORAS
NT DAYGLOW
NT IONOSPHERIC NOISE
NT NIGHTGLOW
NT RADIO AURORAS
NT RED ARCS
NT SKY RADIATION
NT TWILIGHT GLOW
NT WHISTLERS

Spectroradiometric calibration of the thematic mapper and multispectral scanner system
[E84-10045] 04 p0552 N84-13638
Passive source localization from spatially correlated angle-of-arrival data
[AD-A133141] 06 p0822 N84-15362
Analysis of longwave radiation for the Earth-atmosphere system
[NASA-CR-173155] 08 p1143 N84-17437
Emission and transmission of atmospheric radiation and their influence on the performance of electro-optics systems measurement, analysis and modelling
[AD-A137359] 10 p1479 N84-19665
Atmospheric transmittance/radiance: Computer code LOWTRAN 6
[AD-A137786] 11 p1707 N84-21126
Polarization radiation in the planetary atmosphere delimited by a heterogeneous diffusely reflecting surface
[NASA-TM-77296] 11 p1731 N84-21292
The night airglow O2(1-Sigma) atmospheric band at 8645A and the rotational temperature observed at 23 deg S
[INPE-3021-PRE/459] 12 p1846 N84-22034
East Europe report: Scientific affairs
[JPRS-ESA-84-008] 14 p2174 N84-24020
Article examines presence of KR-85 in atmosphere
14 p2174 N84-24021
Measurements concerning increase of atmospheric radiokryption content 14 p2174 N84-24022
Measurements of atmospheric Kr-85 concentration at ATOMKI from 1966 to 1977 14 p2174 N84-24023
Blue-green propagation through clouds
15 p2323 N84-24949
Radiative transfer in Roche coordinates
15 p2421 N84-25544
Survey of atmospheric radiation components for the Gamma and Cosmic Ray Astrophysics Branch of the Space Science Division of the Naval Research Laboratory
[AD-A141134] 19 p3124 N84-29845
Dynamic characteristic of intense short microwave propagation in an atmosphere
[DE84-002788] 21 p3387 N84-31496
Science support for the Earth radiation budget sensor on the Nimbus-7 spacecraft
[NASA-CR-175251] 22 p3622 N84-32948
Proceedings of a Workshop on Polar Stratospheric Clouds: Their Role in Atmospheric Processes
[NASA-CP-2318] 22 p3822 N84-32952
Solar influence on terrestrial weather and global lightning patterns via cosmic ray modulations
24 p3927 N84-34855

ATMOSPHERIC REFRACTION
NT RADIO WAVE REFRACTION

Two-layer model of line-of-sight refractive multipath propagation
[AD-A130474] 01 p0064 N84-10418
On the determination of the index of refraction of the atmosphere
[AD-A132107] 04 p0583 N84-13713
Effective Earth radius for refraction of radio waves at altitudes above 1 km
[AD-A137095] 10 p1482 N84-19683
Correlation between the meteorological parameters and the optical strength of atmospheric turbulence close to the ground. Part 3: Results
[BAE-BT-10771] 13 p2016 N84-23070
Autonomous navigation of USAF spacecraft
[AD-A139173] 14 p2114 N84-23669
Considerations pertinent to propagation prediction methods applied to airborne microwave equipment
15 p2326 N84-24970
Synoptic classification and horizontal homogeneity of the refractive index structure function parameter in the surface layer
[AD-A140925] 18 p2879 N84-28280
Accuracy requirements of space laser systems for geodetic applications 24 p3906 N84-34736
Atmospheric effects on coherent lidar systems
24 p3924 N84-34839
Atmospheric refraction error and its compensation for passive optical sensors
[AD-A144377] 24 p3963 N84-35098

ATMOSPHERIC SCATTERING
NT TROPOSPHERIC SCATTERING

The effects of atmospheric water vapor absorption on infrared laser propagation in the 5 micrometer band
[AD-A130788] 01 p0087 N84-10566
A review of optical data analysis related to the modelling of visible and optical infrared atmospheric properties
[AD-A131486] 01 p0106 N84-10687
Measurements of optical properties of particulates in an arid region
[AD-A132889] 05 p0709 N84-14644
Relation between atmospheric scattering and backscattering coefficient
[DFVLR-FB-83-20] 07 p1075 N84-16989
Photon-burst correlation techniques for atmospheric crosswind measurements
[AD-A134617] 08 p1187 N84-17735
Meteor scatter communication in an air-ground environment
[AD-A135669] 09 p1301 N84-18506
Beta systems error analysis
[NASA-CR-170998] 11 p1705 N84-21117
Atmospheric transmittance/radiance: Computer code LOWTRAN 6
[AD-A137786] 11 p1707 N84-21126
Polarization radiation in the planetary atmosphere delimited by a heterogeneous diffusely reflecting surface
[NASA-TM-77296] 11 p1731 N84-21292
Multipath propagation at 11, 18, and 36 GHz due to ducting
[FOA-C-20511-E2] 12 p1810 N84-21800
Effect of multiple scattering on the propagation of light beams in dense nonhomogeneous media
15 p2325 N84-24959
Fundamentals of spaceborne remote sensing: Applications of lasers, volume 1
16 p2529 N84-26238
The delta S (delta R)-2 question: The pulse-length dependence of signal power for Fresnel scatter
17 p2685 N84-27099
Jicamarca mesospheric observations
17 p2686 N84-27100
Origin of refractive index fluctuations in the mesosphere as opposed to the stratosphere and troposphere
17 p2686 N84-27101
Capabilities and limitations of EISCAT as an MST radar 17 p2690 N84-27129
Capabilities and limitations of the Jicamarca radar as an MST radar 17 p2690 N84-27130
Small-angle method in study of single and multiple scattering 20 p3225 N84-30492
Analytic techniques for estimating visible image transmission properties of the atmosphere
[AD-A142524] 20 p3300 N84-30954
Development of a global model for atmospheric backscatter at CO2 wavelengths
[NASA-CR-171130] 21 p3382 N84-31459
Coherent polarimetric C-band radar for atmospheric research 23 p3776 N84-33937
Low and high altitude ionospheric modification experiments 23 p3796 N84-34072

Atmospheric effects on coherent lidar systems
24 p3924 N84-34839

ATMOSPHERIC SHELLS
U ATMOSPHERIC STRATIFICATION

ATMOSPHERIC SOUNDING
Omega Dropwindsonde processing
[PB83-248773] 03 p0412 N84-12700
Strong acoustic wave action — on the atmosphere
05 p0636 N84-14186
The conversion of off-vertical observations of total electron content into equivalent vertical-incidence values
[AD-A132624] 05 p0703 N84-14613
Rocket and laboratory studies in aeronomy and astronomy
[NASA-CR-173272] 07 p1088 N84-17075
Ion source for a rocket payload
[AD-A135051] 08 p1121 N84-17289
Performance appraisal of VAS radiometry for GOES-4, -5 and -6
[NASA-TM-85125] 09 p1344 N84-18781
Use of VAS multispectral data for sea surface temperature determination 12 p1836 N84-21967
Research Review, 1983
[NASA-TM-86053] 12 p1850 N84-22049
Observing system simulation experiments related to space-borne Lidar wind profiling. Part 1: Forecast impacts of highly idealized observing systems
12 p1850 N84-22052
SASS wind forecast impact studies using the GLAS and NEPRF systems: Preliminary conclusions
12 p1851 N84-22055
Comparison of AMSU temperature soundings with those produced by HIRS and AMTS 12 p1851 N84-22057
Improved HIRS2/MSU soundings using tropopause information 12 p1851 N84-22060
High resolution GLAS on the MCIDAS
12 p1852 N84-22062
A new algorithm for tuning of computed radiances for HIRS2/MSU 12 p1852 N84-22063
A statistical evaluation and comparison of VISSR Atmospheric Sounder (VAS) data and corresponding rawinsonde measurements
[NASA-TM-82575] 13 p2016 N84-23071
Application of VISSR Atmospheric Sounder (VAS) data
[NASA-TM-82574] 13 p2016 N84-23073
RANP: Stability Analysis Plot Program
[PB84-161447] 14 p2181 N84-24071
Basic elements of laser radar
[INPE-3123-MD/025] 16 p2497 N84-26021
Evidence for parallel elongated structures in the mesosphere 17 p2689 N84-27122
The Urbana MST radar, capabilities and limitations
17 p2691 N84-27136
Limiting ranges in atmospheric radioacoustic sounding
17 p2707 N84-27238
Case studies of NOAA 6/TIROS N data impact on numerical weather forecasts 17 p2717 N84-27294
Signal power during radioacoustic sounding of turbulent atmosphere 18 p2864 N84-28186
Well-developed convective cloud cover as source of internal waves 18 p2865 N84-28187
Comparison of qualitative and quantitative measurements of temperature turbulence with monostatic sodar 18 p2865 N84-28188
Meteorological sounding systems
[AD-A141706] 19 p3058 N84-29405
The advantages of sounding with the smaller detectors of the VISSR atmospheric sounder
[NOAA-TM-NESDIS-6] 20 p3240 N84-30571
Passive microwave remote sensing of the atmosphere from satellites 23 p3774 N84-33923
Spaceborne lasers in atmospheric research
24 p3904 N84-34721
Spaceborne lidar applications to meteorology and environmental studies 24 p3904 N84-34725
Spaceborne lidar investigations of the atmosphere
24 p3907 N84-34743
An ER-2 aircraft airborne lidar as part of the development program of a spaceborne system: A potential NASA/CNES cooperative project 24 p3907 N84-34744
VISSR IR grid data processing
24 p3922 N84-34821
NASA/MSFC FY-84 Atmospheric Processes Research Review
[NASA-CP-2329] 24 p3923 N84-34829
Regional scale simulation of atmospheric structure using VAS data 24 p3929 N84-34869
Statistical analysis and use of the VAS radiance data
24 p3929 N84-34870
Mesoscale analysis of VAS 6.7 micron image data for several case studies 24 p3930 N84-34873
An application of VISSR atmospheric sounder (VAS) data in mesoscale analysis 24 p3930 N84-34874
Statistical severe storm nowcasting comparison of VAS and Rawinsonde soundings 24 p3930 N84-34878
Statistical structure of convective periods derived from satellite ground based data 24 p3931 N84-34882
Investigation of mesoscale pre-convective forcing mechanisms 24 p3931 N84-34883
Applications of the AVE-Sesame data sets to mesoscale studies 24 p3931 N84-34886
Radar analyses of mesoscale meteorological phenomena during the AVE/VAS correlation field experiment 24 p3932 N84-34889
NSSFC: VAS assessment activities
24 p3932 N84-34891
A statistical evaluation and comparison of VISSR Atmospheric Sounder (VAS) data
24 p3932 N84-34892
VAS sounding data evaluation
24 p3933 N84-34893
Evaluation and development of new VAS remote sensing algorithms 24 p3933 N84-34894
Sensor studies and space flight opportunities
24 p3933 N84-34896

ATMOSPHERIC STRATIFICATION
Analytical investigation of meso-scale boundary layer forced by surface temperature variation in a stratified sheared atmosphere 04 p0562 N84-13702
Experimental water tunnel with density stratification for the simulation of small-scale atmospheric flows
[BLL-RISLEY-TR-4871-(9091.9F)]
08 p1106 N84-17188
Multipath propagation at 11, 18, and 36 GHz due to ducting
[FOA-C-20511-E2] 12 p1810 N84-21800
Reports from the German Meteorological Service, no. 163. Contribution to the classification of waste heat weather situations by means of thermal stratification. Upper Rhine model. Waste heat project, Upper Rhine, part 2
[ISBN-3-88148-206-7] 12 p1849 N84-22048
Internal gravitation waves in a stably stratified atmosphere
[KBMI-WR-84-1] 15 p2368 N84-25206
Quantities of interest to climatology and atmospheric physics, volume 2 16 p2529 N84-26239
Spectral characteristics of the MST radar returns
17 p2685 N84-27094
Wind velocity and temperature profiles in atmospheric surface layer for neutral and unstable stratification conditions 18 p2865 N84-28189

ATMOSPHERIC TEMPERATURE
NT IONOSPHERIC TEMPERATURE
Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F. Cape Lisburne Alaska AFS
[AD-A131194] 01 p0109 N84-10705
Temperature histories of commercial flights at severe conditions from GASP data
[NASA-CR-168247] 02 p0175 N84-11152
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F. Brize Norton RAF, United Kingdom
[AD-A131621] 02 p0254 N84-11663
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F. Indian Mountain AFS, Alaska
[AD-A131195] 02 p0255 N84-11668
Climate of Phoenix, Arizona (revised)
[PB83-246801] 03 p0412 N84-12699
Range reference atmosphere 0-70 km altitude
[AD-A132487] 04 p0567 N84-13737
White Sands Missile Range, New Mexico Range reference atmosphere 0-70 km altitude
[AD-A132471] 04 p0567 N84-13738
An analysis of aircraft data collected in the Alboran Sea during Donde Va?, 6 - 18 October 1982
[AD-A133995] 06 p0883 N84-15746
Can we delay a greenhouse warming
[DE84-900198] 07 p1027 N84-16658
Meteorological yearbook of Finland, volume 78, part 1b. Climatological data from Jokioinen and Sodankylae Observatories, 1978
[ISBN-951-697-193-8] 07 p1035 N84-16714
Climatological statistics in Finland, 1961 - 1980
07 p1035 N84-16715
Eielson AFB, Alaska. Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F
[AD-A134198] 07 p1036 N84-16723
McGuire AFB, New Jersey. Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F
[AD-A134199] 07 p1036 N84-16724
Duluth, Duluth IAP, Minnesota. Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F
[AD-A134200] 07 p1037 N84-16725
King Salmon, Alaska. Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F
[AD-A134201] 07 p1037 N84-16726
Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F. Kitzingen, West Germany
[AD-A134202] 07 p1037 N84-16727
Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F. Adak NAS, Alaska
[AD-A134203] 07 p1037 N84-16728
Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F. Loring AFB, Maine
[AD-A134204] 07 p1037 N84-16729
Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F. Buckley ANGB, Colorado
[AD-A134205] 07 p1038 N84-16730
Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F. Elmendorf AFB, Alaska
[AD-A134206] 07 p1038 N84-16731
Limited Surface Observations Climatic Summary (LISOCS). Ft. Richardson, Alaska
[AD-A134207] 07 p1038 N84-16732
Limited Surface Observations Climatic Summary (LISOCS). Finthen AAF, West Germany
[AD-A134208] 07 p1038 N84-16733
Limited Surface Observations Climatic Summary (LISOCS). Coleman AAF, West Germany
[AD-A134210] 07 p1038 N84-16735
Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F. Galena AFS, Alaska
[AD-A134211] 07 p1039 N84-16736
A program of research in environmental modeling
[NASA-CR-173281] 08 p1182 N84-17697
A theoretical analysis of the past variations in global atmospheric composition and temperature structure
08 p1190 N84-17754
The relationship between vehicle fuel temperature and ambient temperature. 1981 CRC (Coordinating Research Council) Kapuskasing field test
[AD-A136948] 10 p1470 N84-19602
The NEPHOS program: Preliminary results
10 p1536 N84-20061
Analysis of AFGL aircraft icing data
[AD-A137197] 10 p1539 N84-20087
A model to calculate hourly temperatures from three regular readings, part 3
[KNMI-165-3] 10 p1540 N84-20093
Barking Sands, Hawaii. Range reference atmosphere 0-70 km altitude
[AD-A137406] 10 p1590 N84-20421
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Dyess AFB, Texas
[AD-A137575] 11 p1685 N84-20991
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Part A-F: Phillips, Aberdeen, Maryland
[AD-A137577] 11 p1685 N84-20993
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Gela, Italy
[AD-A137578] 11 p1686 N84-20994
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Dhahran, Saudi Arabia
[AD-A137580] 11 p1686 N84-20995
Limited Surface Observations Climatic Survey (LISOCS), Baumholder, West Germany
[AD-A137582] 11 p1686 N84-20997
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Andersen AFB, Guam
[AD-A137583] 11 p1686 N84-20998
Solar-blind Raman lidar, phase 2
[AD-A137604] 11 p1732 N84-21295
Proposals for VIRA (Venus International Reference Atmosphere): Dynamics and structure below 100 km
[REPT-831] 11 p1758 N84-21475
Results of the joint NASA/NOAA AMTS/HIRS2 sounding simulation test 12 p1851 N84-22059
Improved HIRS2/MSU soundings using tropopause information 12 p1851 N84-22060
The prediction of tropopause height from clusters of brightness temperatures and its application in the stratified regression temperature retrievals using microwave and infrared satellite measurements
12 p1852 N84-22064
Applications of cluster analysis to satellite soundings
12 p1852 N84-22065
Ocean fluxes simulated by the GLAS GCM
12 p1855 N84-22085
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Zaragoza Air Base, Spain
[AD-A138281] 12 p1860 N84-22121

Ascension Island, South Atlantic Range reference atmosphere, 0.66 km altitude
[AD-A138470] 12 p1861 N84-22122
Handbook of geophysics and space environments, Chapter 15, 1983 revision: Atmospheric temperature, density and pressure
[AD-A138846] 13 p2017 N84-23076
In-flight atmospheric and fuel tank temperature measurements 14 p2108 N84-23643
Climatological frequency distributions for Juneau, Alaska
[PB84-154814] 14 p2180 N84-24059
Quantities of interest to climatology and atmospheric physics, volume 2 16 p2529 N84-26239
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Plattsburgh AFB, New York
[AD-A140244] 16 p2530 N84-26244
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: McGhee-Tyson Airport, Tennessee
[AD-A140245] 16 p2530 N84-26245
Radiative forcing of the Venus mesosphere 16 p2580 N84-26549
Evaluation of probabilities of large deviations of climatic characteristics from present levels 17 p2697 N84-27179
Modeling seasonal evolution of thermal regime of ocean-atmosphere system 17 p2697 N84-27181
Radiative heat exchange in atmosphere disturbed by volcanic eruption 17 p2698 N84-27184
Analytical model of latitudinal variation of dispersion and spectra of fluctuations of zonally averaged surface temperature 18 p2856 N84-28137
Evaluations of coefficient of vertical exchange in lower thermosphere 18 p2864 N84-28185
Comparison of qualitative and quantitative measurements of temperature turbulence with monostatic sodar 18 p2865 N84-28188
Wind velocity and temperature profiles in atmospheric surface layer for neutral and unstable stratification conditions 18 p2865 N84-28189
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-E: Clark AFB, Philippines
[AD-A141228] 18 p2890 N84-28342
Climatology of heating-degree days in the Netherlands during the years 1961-1980
[KNMI-TR-47] 18 p2891 N84-28351
Unbalanced infrared radiation and natural laser effect in atmospheres of Venus and Mars 19 p2975 N84-28858
Spatial patterns of climate and climatic change. Part 1: Summary report, appendices 1-5
[DE84-010253] 19 p3059 N84-29408
The advantages of sounding with the smaller detectors of the VISSR atmospheric sounder
[NOAA-TM-NESDIS-6] 20 p3240 N84-30571
Meteorological research and support for the MIZEX (Marginal Ice Zone Experiment) program
[AD-A142409] 20 p3245 N84-30598
Climatic change and streamflow in the southwest
[DE84-012658] 21 p3432 N84-31776
Applications of the AVE-SESAME data sets to mesoscale studies
[NASA-CR-3819] 21 p3446 N84-31866
Daily variations of temperature and humidity within and above Amazonian forest
[INPE-3196-PRE/560] 21 p3447 N84-31869
Proceedings of the 8th Annual Climate Diagnostics Workshop
[PB84-192418] 21 p3450 N84-31893
The climatic impact of volcanic activity 22 p3624 N84-32963
Ground-based remote sensing of temperature and water vapor by passive microwave radiometers 23 p3774 N84-33925
Combined ground-based and satellite remote sensing of temperature 23 p3774 N84-33926
Seasonal climate scenarios for Europe and North America in a high-CO2, warmer world
[DOE/EV-10098/5] 23 p3801 N84-34104
System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] 24 p3855 N84-34443
Differential absorption lidar in space for temperature and humidity profiles in the atmosphere 24 p3907 N84-34748
Ground-based observations of equatorial thermosphere dynamics with a Fabry-Perot interferometer
[NASA-CR-174005] 24 p3933 N84-34897

ATMOSPHERIC TIDES
Thermal tides in the atmosphere of Venus 06 p0876 N84-15702
Possible tidal modulation of the Indian monsoon onset 06 p0879 N84-15721
Possible tidal modulation of the Indian monsoon onset
[AD-A135441] 08 p1191 N84-17760
Tidal oscillations in the atmospheric sodium layer
[INPE-3008-PRE/454] 12 p1846 N84-22033
Research status and recommendations from the Alaska workshop on gravity waves and turbulence in the middle atmosphere
[AD-A140939] 18 p2879 N84-28281
Monthly mean determination of the solar semidiurnal surface pressure oscillation at Batavia from 1866 through 1944
[PB84-184795] 20 p3244 N84-30593
Analysis and programming for research in the physics of the upper atmosphere
[AD-A144203] 24 p3919 N84-34811

ATMOSPHERIC TURBULENCE
NT CLEAR AIR TURBULENCE
NT GUSTS
NT LOW LEVEL TURBULENCE
Turbulent wind effects on tension leg platform surge
[PB83-207464] 01 p0058 N84-10376
A study of air-pollution mixing heights and atmospheric turbulence over New York City, data report
[DE83-010624] 02 p0244 N84-11596
Gust structure and gust statistics. Results from an analysis of atmospheric turbulence measurements by using conditional sampling technique
[FFA-TN-1983-28] 03 p0412 N84-12696
Wind speed, stability category, and atmospheric turbulence at selected locations
[AD-A132947] 05 p0709 N84-14645
The effect of turbulent atmosphere on backscattered waves 06 p0870 N84-15664
Doppler lidar signal and turbulence study
[NASA-CR-170976] 08 p1163 N84-17574
Optical scintillation statistics for infrared ground-to-space laser communication systems
[AD-A136607] 09 p1299 N84-18495
Theory and modeling of atmospheric turbulence, part 1
[NASA-CR-3787] 09 p1348 N84-18805
Measurements of coefficient of turbulent diffusion in middle-latitude strato- and mesosphere 11 p1670 N84-20894
Terrain variables improve modeling of Richardson numbers less than unity in the lower atmosphere
[AD-A137926] 11 p1671 N84-20906
On the horizontal and vertical variability of the vertical turbulent eddy diffusion coefficients in the mesosphere
[AD-A137877] 11 p1687 N84-21002
Atmospheric turbulence simulation for Shuttle orbiter
[NASA-CR-171013] 13 p1938 N84-22602
A spatial model of wind shear and turbulence for flight simulation
[NASA-TP-2313] 14 p2178 N84-24044
Case study of layer fine structure and turbulence within stable elevated layers
[PB84-158666] 14 p2182 N84-24076
Adaptive compensation for atmospheric turbulence effects on optical propagation 15 p2325 N84-24960
Effects of atmospheric turbulence on optical propagation 15 p2325 N84-24961
Internal gravitation waves in a stably stratified atmosphere
[KBMI-WR-84-1] 15 p2368 N84-25206
Vector wind gust model
[NASA-CR-171029] 15 p2371 N84-25222
A model atmosphere analysis of the Am star 68 Tau 15 p2422 N84-25548
Correlated measurements of UHF radar signatures, RF radiation and electric field changes from lightning
[NASA-TM-84425] 16 p2481 N84-25907
On the structure and forcing of tropospheric stationary waves 16 p2527 N84-26225
On the structure of the narrow cold-frontal rainband 16 p2532 N84-26254
Middle Atmosphere Program. Handbook for MAP, volume 9
[NASA-CR-173439] 17 p2682 N84-27076
Spectral characteristics of the MST radar returns 17 p2685 N84-27094
Spectral characteristics of the return 17 p2685 N84-27095
Origin of refractive index fluctuations in the mesosphere as opposed to the stratosphere and troposphere 17 p2686 N84-27101
The relationship between strength of turbulence and backscattering radar power at HF and VHF 17 p2689 N84-27125
Relationship of strength of turbulence to received power 17 p2689 N84-27126
On the extraction of atmospheric turbulence parameters from radar backscatter Doppler spectra. Part 1: Theory 17 p2689 N84-27127
Mesospheric turbulence intensities measured with a HF radar at 35 deg S. Part 2 17 p2689 N84-27128
Stratosphere and troposphere (S-T) studies at Millstone Hill. Recent results, capabilities and limitations 17 p2691 N84-27137
Properties of echo spectra observed by MST radars 17 p2696 N84-27171
Turbulent pulsations of horizontal and vertical wind velocity components in clouds of different genera 17 p2697 N84-27182
Limiting ranges in atmospheric radioacoustic sounding 17 p2707 N84-27238
Intensity fluctuations during specular reflection of light beams in turbulent atmosphere 18 p2823 N84-27922
Evaluations of coefficient of vertical exchange in lower thermosphere 18 p2864 N84-28185
Signal power during radioacoustic sounding of turbulent atmosphere 18 p2864 N84-28186
Comparison of qualitative and quantitative measurements of temperature turbulence with monostatic sodar 18 p2865 N84-28188
Wind velocity and temperature profiles in atmospheric surface layer for neutral and unstable stratification conditions 18 p2865 N84-28189
Higher-order turbulence models including a cloud layer, appendix F 18 p2884 N84-28301
Theory and modeling of atmospheric turbulence, part 2
[NASA-CR-3817] 19 p3057 N84-29398
Acoustic propagation in the surface layer under convectively unstable conditions 21 p3489 N84-32111
Scintillometer for measuring atmospheric turbulence
[FOA-C-30363-E1] 23 p3752 N84-33785
Simultaneous remote sensing of atmospheric turbulence by radar optical means: A comparison 23 p3775 N84-33932
Atmospheric effects on coherent lidar systems 24 p3924 N84-34839

ATMOSPHERIC WINDOWS
Principles of thermal remote sensing 05 p0695 N84-14565
Altitudinal change in continuous absorption in atmospheric transparency window 8-12 microns 11 p1670 N84-20901
Passive infrared ranging
[AD-A138066] 12 p1907 N84-22424

ATMOSPHERICS
NT WHISTLERS
The mechanism of meteorological noise
[PB83-241489] 02 p0257 N84-11681
Single event upset phenomena from high energy neutrons
[AD-A131287] 02 p0292 N84-11914
A study of atmospheric transmission in the wavelength regions of 0.35 micrometers to 14 micrometers
[AD-A135721] 09 p1302 N84-18510
Correlated measurements of UHF radar signatures, RF radiation and electric field changes from lightning
[NASA-TM-84425] 16 p2481 N84-25907
Principal components as a method for atmospherically correcting coastal zone color scanner data
[AD-P003124] 16 p2533 N84-26265
The mobile Sousy-Doppler radar: Technical design and first results 17 p2693 N84-27152

ATOMIC BATTERIES
U RADIOISOTOPE BATTERIES

ATOMIC BEAMS
Laser-Cooled and Trapped Atoms
[PB83-238196] 02 p0192 N84-11249
High-sensitivity laser spectroscopy with atoms from a cooled helium jet
[DE84-000614] 04 p0540 N84-13554
Atomic-beam density determination from laser-induced fluorescence interval distributions
[DE84-000677] 04 p0542 N84-13571
Laser optical pumping of sodium and lithium atom beams 06 p0849 N84-15534
Laser cooling and trapping of neutral atoms
[AD-A134333] 07 p1009 N84-16547
Atomic hydrogen maser investigations of hydrogen atom interactions from 4 K to 12 K
[AD-A134917] 08 p1165 N84-17582
Plasma magnetic field measurement by intracavity absorption
[DE84-005152] 10 p1500 N84-19806
Atomic hydrogen beam probing with spectroscopic technique 11 p1736 N84-21324
Interactions of fast atomic and molecular ions with matter
[DE84-006555] 15 p2405 N84-25438
Optically pumped polarized alkali atomic beams and targets
[DE84-012389] 21 p3495 N84-32147
Probing a plasma with high-energy beams of atoms using threshold detectors
[DE84-013360] 21 p3502 N84-32195

Hypervelocity supersonic nozzle beam source of atomic oxygen 24 p3863 N84-34480
A facility for investigating interactions of energetic atomic oxygen with solids 24 p3863 N84-34481
An atomic oxygen facility for studying polymer materials for spacecraft applications 24 p3863 N84-34482
A low Earth orbit molecular beam space simulation facility 24 p3863 N84-34483
Atomic beam system for laboratory simulation of upper atmosphere oxygen atom impact on STS surfaces 24 p3863 N84-34485
Studies of compound states of atomic negative ions using laser beams
[AD-A144653] 24 p3962 N84-35091

ATOMIC CLOCKS
Journal of Research of the National Bureau of Standards. Volume 88, Number 5, September-October 1983
[PB84-125293] 08 p1139 N84-17406
Model mission study for laser synchronization of clocks
[SNIAS-221-CA/LP] 08 p1162 N84-17569
Picosecond time difference measurements utilizing CAMAC-based ANSI/IEEE-488 data acquisition hardware. Operating manual IE3, version 1.0
[PB84-116011] 09 p1319 N84-18616
Frequency stability analysis of GPS (Global Positioning System) NAVSTARs 3 and 4 rubidium clocks and the NAVSTARs 5 and 6 cesium clocks
[AD-A137376] 10 p1425 N84-19318
Thermal vacuum test facility
[AD-A137712] 11 p1620 N84-20607

ATOMIC COLLISIONS
Hadron-hadron collider group
[DE83-010704] 03 p0437 N84-12865
Cross sections for charge transfers of highly ionized ions in hydrogen atoms
[IPPJ-AM-30] 03 p0443 N84-12912
Physics of ion implantation: Ion-cascade processes and physical state of the implanted solid
[DE83-017152] 03 p0455 N84-12998
Laser-induced fluorescence line narrowing in atomic vapors
[DE83-018216] 04 p0541 N84-13558
Theory of electronic, atomic and molecular collisions
[AD-A134025] 05 p0743 N84-14883
Concept for a volume-type tandem three-chamber negative hydrogen ion source
[DE84-003338] 07 p1073 N84-16971
Progress in numerical calculations of ion-atom collisions
[DE84-003405] 08 p1229 N84-18033
Low energy ion-neutral collisions
[DE84-005392] 11 p1730 N84-21287
Proceedings on Symposium on Atomic Collision Data for Diagnostics and Modelling of Fusion Plasmas
[IPPJ-AM-33] 11 p1734 N84-21310
Atomic collision data for beam probe diagnostics of magnetically confined high temperature plasmas 11 p1735 N84-21318
Charge exchange and related processes 11 p1736 N84-21327
Laboratory studies of atomic collision processes
[AD-A137992] 12 p1901 N84-22382
A classical picture of anomalous effects in a Tokamak
[IPPJ-664] 13 p2044 N84-23263
Atomic collisions and plasma physics
[AD-A141320] 18 p2880 N84-28286
Correlated charge changing interactions and K X-ray emission in ion-atom collisions
[DE84-008645] 18 p2930 N84-28580
Attractive interaction between an atom and a surface
[DE84-003204] 19 p3103 N84-29712
Energy transfer in atom-molecule collisions with suprathermal collision energy
[MPIS-2/1984] 23 p3824 N84-34249
A facility for investigating interactions of energetic atomic oxygen with solids 24 p3863 N84-34481
An atomic oxygen facility for studying polymer materials for spacecraft applications 24 p3863 N84-34482
A low Earth orbit molecular beam space simulation facility 24 p3863 N84-34483
Atomic beam system for laboratory simulation of upper atmosphere oxygen atom impact on STS surfaces 24 p3863 N84-34485
Low-energy collisions excited atoms
[AD-A144192] 24 p3961 N84-35087
Studies of compound states of atomic negative ions using laser beams
[AD-A144653] 24 p3962 N84-35091

ATOMIC ENERGY
U NUCLEAR ENERGY

ATOMIC ENERGY LEVELS
Relativistic calculations and measurements of energies, Auger rates and lifetimes
[AD-A130094] 01 p0141 N84-10924
New program for the least-squares calculation of atomic energy levels
[DE83-014076] 01 p0143 N84-10941
Different sensitivity of s- and d-electron energy levels to a change in lattice parameters in transition metals
[BLL-M-35116-(5828.4)] 01 p0151 N84-10996
Kinetics of growth and decay of excited rare-gas atoms and molecules in the pulse radiolysis of pure rare gases and of mixtures of rare gases with molecular quenching agents
[DE83-017016] 03 p0436 N84-12856
Liouvillian Green's-function theory of spectral line shape
[AD-A132467] 04 p0589 N84-13894
Collisional excitation and radiation of atoms and molecules
[AD-A134093] 05 p0743 N84-14881
Atomic transport in metallic glasses
[AD-A136363] 09 p1282 N84-18373
Energy levels and transition probabilities of low Z ions for electric field determination 11 p1736 N84-21325
Spin-polarized triplet helium
[NASA-CR-173787] 19 p2987 N84-28929
Research in dense plasma atomic physics
[AD-A141538] 19 p3107 N84-29740
Multiphoton ionization spectroscopy and photochemistry of transient species
[DE84-010424] 20 p3295 N84-30922
Relation of vertical intensity profiles for neutral atom lines to analyte atomization behavior in inductively coupled plasmas
[DE84-014126] 22 p3659 N84-33194

ATOMIC EXCITATIONS
The 100% alignment of hydrogen excited states in beam-foil spectroscopy
[DE83-017963] 03 p0436 N84-12859
Collisional-radiative model for helium-like ions: Application to intermediate-density plasmas
[IPPJ-647] 06 p0919 N84-15976
Enhancement of the excitation and deexcitation rate coefficient of ions in dense plasmas: The role of autoionizing states
[IPPJ-661] 11 p1733 N84-21302
The effect of excitation anisotropy in the laser-induced fluorescence spectroscopy of plasmas 11 p1735 N84-21319
Excitation of simple atoms by slow magnetic monopoles
[DE84-006209] 12 p1903 N84-22393
Electronically excited products in the reactions of O(3PJ) atoms with halogenated ethenes
[MPIS-8/1983] 13 p2041 N84-23244
Spin-polarized triplet helium
[NASA-CR-173787] 19 p2987 N84-28929
Study of proton and neutron activation of metal samples in low Earth orbit
[NASA-CR-171113] 21 p3430 N84-31763
Relation of vertical intensity profiles for neutral atom lines to analyte atomization behavior in inductively coupled plasmas
[DE84-014126] 22 p3659 N84-33194

ATOMIC EXPLOSIONS
U NUCLEAR EXPLOSIONS

ATOMIC GASES
U MONATOMIC GASES

ATOMIC PHYSICS
Intense positron beams: Linacs; preworkshop copy
[DE83-012941] 01 p0146 N84-10958
Atomic processes in hot dense plasma
[IPPJ-AM-31] 03 p0443 N84-12911
Bibliography on atomic processes in hot dense plasmas
[IPPJ-AM-29] 03 p0443 N84-12913
Basic and applied research in the field of electronics and communications
[AD-A135283] 08 p1150 N84-17487
RLE (Research Laboratory of Electronics)
[AD-A134812] 08 p1151 N84-17495
Program for a constructive physics
[DE84-005425] 12 p1916 N84-22486
Research in the area of laser modified atomic physics
[AD-A139387] 14 p2222 N84-24335
Mirrorless intrinsic optical bistability due to the local field correction in the Maxwell-Bloch formulation 14 p2233 N84-24397
Many-body processes in atomic and molecular physics
[DE84-007336] 15 p2406 N84-25441
Institutional supporting research highlights in physics and mathematics, fiscal year 1983
[DE84-011025] 20 p3264 N84-30855
Accelerator-based atomic physics experiments with photon and ion beams
[DE84-010789] 20 p3296 N84-30928

ATOMIC RECOMBINATION
NT OXYGEN RECOMBINATION

ATOMIC SPECTRA
Continued investigation of the atomic physics of flashlamp pumped cesium-neon lasers
[AD-A130223] 01 p0086 N84-10561
Harmonic generation in paramagnetic spin systems
[AD-A130895] 01 p0153 N84-11004
Computational spectroscopy
[DE84-003754] 07 p0971 N84-16290
Detection of elements in biomedical fluids by laser-induced breakdown spectroscopy
[DE84-003838] 08 p1126 N84-17319
Atomic and molecular gas phase spectrometry
[AD-A135971] 09 p1392 N84-19088
Current trends in atomic spectroscopy
[PB84-162957] 13 p1959 N84-22732
Current trends in atomic spectroscopy. Report on a workshop held in Tucson, Arizona, October 24-26, 1982
[AD-A139288] 14 p2222 N84-24333
Spectral analysis of Beta Pegasi 15 p2422 N84-25551
Trace analysis in quartz
[AD-A142425] 20 p3148 N84-29988

ATOMIC STRUCTURE
Amorphous materials from precision alloys
[BLL-M-35179-(5828.4)] 01 p0041 N84-10264
Nuclear magnetic resonance gyroscope
[AD-A130102] 01 p0083 N84-10539
Molecular photoionization studies
[DE83-014283] 02 p0291 N84-11905
Atomic and electronic structure of defects in semiconductors
[AD-A131539] 02 p0299 N84-11960
Structural studies of amorphous Mo-Ge alloys through the semiconductor-metal transition
[DE83-016525] 02 p0299 N84-11964
Implications of heavy-ion-induced satellite X-ray emission. 1: Introduction
[DE83-015682] 03 p0435 N84-12851
Dense molecular thermodynamics
[DE83-015216] 03 p0457 N84-13006
Density of occupied d states in transition metal-metalloid metallic glasses
[DE84-001206] 04 p0503 N84-13298
Application of quantum chemistry to atmospheric chemistry — uranium oxide
[AD-A133836] 05 p0648 N84-14261
Theoretical and experimental studies of the electronic structure of the Mo3(Micro3-O)(Micro3-OR)(Micro-OR)3(OR)6 type of triangulo metal atom cluster compound
[AD-A133516] 06 p0915 N84-15951
Photoelectron studies of resonant multiphoton ionization of CO via the A-1 Pi state
[DE83-008535] 06 p0916 N84-15956
Deuteron forward photodisintegration: Meson currents and relativity
[DE84-001314] 07 p1072 N84-16966
Monolithic ZnO SAW (Surface Acoustic Waves) structures
[AD-A135987] 09 p1309 N84-18557
Magnetic properties of interstitial phases in vanadium-oxygen system
[BLL-M-35386] 09 p1393 N84-19095
Atomic structure in strongly coupled neon plasmas
[AD-A137341] 10 p1576 N84-20327
The electronic structure of C(2x2)S/Fe(100): S 3p-level dispersions and linewidths. Revision
[AD-A138124] 12 p1797 N84-21725
Evolution of the phonon spectrum and the density of states at the Fermi level near the martensitic transformation in NiAl, Ti(NiCo), CuZnAl and InTl alloys
[ESA-TT-767] 16 p2465 N84-25801
A calculation of the pressure dependent energy bands of cooper chloride
[INPE-3094-PRE/498] 16 p2559 N84-26419
A cluster model for the determination of the state of impurities in crystal
[INPE-3048-PRE/471] 16 p2559 N84-26420
Cluster calculation of electronic structure of the diamond (111) surface using the XAlpha-scattered wave method
[AD-A140486] 16 p2560 N84-26426
Electron emission and ion desorption spectroscopy of clean and oxidized Ti(0001)
[AD-A141319] 18 p2930 N84-28579
Theory of the electronic structure and optical properties of organic solids: Exciton effects
[AD-A142544] 20 p3149 N84-29993
Ultraviolet light absorbers having 2 different chromophors in the same molecule
[DE84-011279] 20 p3150 N84-30000
Investigation of the structure of photosynthetic reaction centers
[DE84-012475] 20 p3150 N84-30005
Supersonic metal cluster beams
[DE84-012976] 22 p3556 N84-32516

Relativistic calculations and measurements of energies, Auger rates, and lifetimes
[AD-A143423] 22 p3663 N84-33220
Diamond surface: Atomic and electronic structure
[DE84-013518] 22 p3665 N84-33234
Local electronic properties of semiconductor surfaces and interfaces
[DE84-013608] 22 p3666 N84-33239

ATOMIZATION
U ATOMIZING

ATOMIZERS
EPA evaluation of the Atomized Vapor Injector device under Section 511 of the Motor Vehicle Information and Cost Savings Act
[PB83-214684] 01 p0163 N84-11072
Constant-output atomizer — inhalation therapy and aerosol research
[NASA-CASE-MFS-25631-1] 03 p0370 N84-12406
Pneumatic atomization with coaxial injectors: Measurements of drop size by diffraction method and liquid phase fraction by attenuation method
[NAL-TR-768] 09 p1312 N84-18574
Measurements in liquid fuel sprays
11 p1608 N84-20526
Alternative fuels use in a vehicular gas turbine
15 p2290 N84-24741
Optical measurements of droplet size distributions: Special considerations in the parameter definition for fuel atomizers 15 p2290 N84-24745
Improved graphite furnace atomizer
[DE84-011091] 20 p3190 N84-30263

ATOMIZING
NT LIQUID ATOMIZATION
Injection, atomization, ignition and combustion of liquid fuels in high-speed air streams
[AD-A133806] 05 p0648 N84-14264
Atomization and mixing study
[NASA-CR-170943] 06 p0834 N84-15428
Glow discharge as an atomization and ionization device
[DE84-005253] 11 p1629 N84-20662
Obtaining metallic powders by ultrasonic atomization of melts 12 p1785 N84-21643
Experimental study of powder production process using centrifugal atomization 12 p1785 N84-21644
Effects of airblast atomizer design upon spray quality
15 p2290 N84-24744
Liquid fuel atomization and mixing in a high velocity air stream 15 p2291 N84-24746
Specification and implementation of atomic data types
[AD-A141823] 19 p3078 N84-29529
Effect of physical properties on break-up and atomization of liquid jets in a supersonic crossflow
24 p3851 N84-34427

ATOMS
NT HOT ATOMS
NT HYDROGEN ATOMS
NT METASTABLE ATOMS
NT NEUTRAL ATOMS
NT OXYGEN ATOMS
NT RECOIL ATOMS
Resonance fluorescence of many interacting adatoms at a metal surface
[AD-A129666] 01 p0038 N84-10239
Resonance fluorescence of a two-level atom near a metal surface
[AD-A130277] 01 p0141 N84-10928
Experimental study of dissociative attachment in optically-pumped lithium molecules
[AD-A131601] 02 p0289 N84-11894
Dielectronic recombination: An introduction
[DE83-015738] 02 p0296 N84-11942
Trends in exotic-atom research
[DE84-001679] 04 p0602 N84-13974
The role of phonons in the excitation and relaxation of adspecies
[AD-A137066] 10 p1455 N84-19504
Sensitive collinear laser spectroscopy on fast atom and ion beams
[DE84-003403] 10 p1456 N84-19512
Detection methods for atoms and radicals in the gas phase
[MPIS-1/1983] 10 p1577 N84-20334
Electron microscopy at atomic resolution
[DE84-005546] 11 p1730 N84-21288
Resonance fluorescence of a two-level atom near a metal surface. 2: Case of a strong driving field
[AD-A138275] 12 p1914 N84-22469
Deactivation of higher vibrational levels of HF by F atoms
[AD-A140653] 17 p2673 N84-27034
The transfer of atoms, ions and molecular groups in solution. Part 1: Models and limits
[AD-A142333] 20 p3147 N84-29981
The transfer of atoms, ions and molecular groups in solution. Part 2: Tunnelling between harmonic wells
[AD-A142334] 20 p3147 N84-29982
Triply differential studies of atomic and molecular photoionization using synchrotron radiation
[AD-A142834] 21 p3493 N84-32133
Radiation pressure on atoms: Laser cooling and intense field effects
[AD-A143637] 23 p3754 N84-33793

ATP
U ADENOSINE TRIPHOSPHATE

ATROPHY
Biochemical and histochemical adaptations of skeletal muscle to rat suspension 09 p1354 N84-18649
Effects of suspension on tissue levels of glucocorticoid receptors 09 p1360 N84-18684
Research opportunities in muscle atrophy
[NASA-CR-175422] 10 p1546 N84-20135
Evaluation of changes in human axial skeletal bone structures during long-term spaceflights
15 p2375 N84-25251
Research opportunities in muscle atrophy
[NASA-CR-3796] 17 p2743 N84-27416
The combined influence of stretch, mobility and electrical stimulation in the prevention of muscle fiber atrophy caused hypokinesia and hypodynamia
[NASA-CR-173994] 24 p3936 N84-34914

ATROPINE
Effect of atropine on the exercise-heat performance of man
[AD-A131843] 03 p0416 N84-12719
Heat exchange following atropine injection before and after heat acclimation
[AD-A132618] 06 p0890 N84-15780
Effects of heat acclimation on atropine impaired thermoregulation
[AD-A139292] 15 p2380 N84-25282
The stability of atropine, stored in the Swedish autoinjector
[FOA-C-40191-C3] 23 p3805 N84-34127

ATTACHMENTS
U ACCESSORIES

ATTACK AIRCRAFT
NT A-6 AIRCRAFT
NT A-7 AIRCRAFT
NT A-10 AIRCRAFT
NT ALPHA JET AIRCRAFT
NT B-1 AIRCRAFT
NT B-52 AIRCRAFT
NT BOMBER AIRCRAFT
NT F-4 AIRCRAFT
NT F-8 AIRCRAFT
NT F-14 AIRCRAFT
NT F-15 AIRCRAFT
NT F-16 AIRCRAFT
NT F-18 AIRCRAFT
NT F-106 AIRCRAFT
NT F-111 AIRCRAFT
NT FIGHTER AIRCRAFT
NT JAGUAR AIRCRAFT
NT MIG AIRCRAFT
NT MIRAGE AIRCRAFT
NT T-2 AIRCRAFT
Quiang 5 attack aircraft of the PRC
[AD-A131058] 02 p0177 N84-11161
Hypervelocity missile: Based on the concept of aircraft/missile integration for maximum firepower
03 p0315 N84-12058
A nonlinear control law for piloting aircraft in the air-to-ground attack phase 03 p0317 N84-12071
Secondary power supplies for a small single engine combat aircraft 03 p0334 N84-12175
Interface specifications for the SCR (A-7E) application data types module
[AD-A132717] 05 p0729 N84-14785
Computer aided construction of ground attack mission profiles over European terrain 06 p0772 N84-15060
Physiological and psychological aspects of the piloting of modern high-performance combat aircraft
06 p0778 N84-15099
Survivability design guidelines for Fly-By-Wire Flight Control Systems development
[AD-A138211] 12 p1772 N84-21557
DARPA (Defense Advanced Research Projects Agency) air vehicles technology office technical task order contract
[AD-A138867] 14 p2105 N84-23625
Study of aerodynamic technology for single-cruise-engine V/STOL fighter/attack aircraft
[NASA-CR-166270] 19 p2956 N84-28738
Study of aerodynamic technology for single-cruise-engine V/STOL fighter/attack aircraft
[NASA-CR-166269] 19 p2961 N84-28767
Weapons file
[AD-A142508] 20 p3128 N84-29867

ATTENTION
Pattern-directed attention in uncertain frequency detection
[AD-A135905] 10 p1547 N84-20142
Neuromagnetic investigation of workload and attention
[AD-A136172] 10 p1548 N84-20147
The limits of multiple resource theory: The role of task correlation/integration in optimal display formatting
[AD-A136692] 10 p1554 N84-20182
Cognitive performance change during a 6-hour hike at low temperature in simulated rain, at controlled walking rates
[AD-A138358] 13 p2020 N84-23100
A Unified Model of Attention and Problem Solving
[AD-A138787] 14 p2186 N84-24097
Neuromagnetic investigation of workload and attention
[AD-A140946] 18 p2900 N84-28394

ATTENUATION
NT ACOUSTIC ATTENUATION
NT ATMOSPHERIC ATTENUATION
NT MICROWAVE ATTENUATION
NT RADAR ATTENUATION
NT RADIO ATTENUATION
NT SIDELOBE REDUCTION
NT WAVE ATTENUATION
Further investigations of the multiple knife-edge attenuation function
[PB83-245043] 04 p0523 N84-13442
Effects of crack closure on ultrasonic transmission
[DE83-018073] 04 p0546 N84-13599
Constraints on the Earth's anelastic and aspherical structure from antipodal surface waves
06 p0876 N84-15700
Analysis of excess attenuation in optical fibers subjected to low temperatures 11 p1722 N84-21232
Variable transmittance electrochromic windows
16 p2517 N84-26158
A comparison of the ultrasonic attenuation of Fe-C alloys in the annealed, normalised and quenched states
[AERE-R-10956] 18 p2929 N84-28573
Chemical attenuation rates, coefficients, and constants in leachate migration. Volume 1: A critical review
[DE84-009432] 20 p3238 N84-30557
Protective plasma envelope
[DE84-013316] 21 p3502 N84-32194
Radio frequency distribution assembly, operations and maintenance manual
[AD-A143864] 23 p3731 N84-33649
The effect of fluids on waveguides below cutoff penetrations as related to electromagnetic shielding effectiveness
[AD-A144685] 24 p3896 N84-34870

ATTENUATION COEFFICIENTS
Measurement of the absorption coefficient using the sound-intensity technique
[NASA-CR-173848] 21 p3490 N84-32115
Measurement of multimode optical fiber attenuation: An NBS special test service
[PB84-192202] 21 p3499 N84-32179

ATTENUATORS
NT RESISTORS
NT THERMISTORS

ATTITUDE (INCLINATION)
NT PITCH (INCLINATION)
NT ROLL
NT SATELLITE ORIENTATION
NT YAW
An instrument to monitor the tilt of large structures
[AD-A129598] 01 p0084 N84-10544
V/STOL (Vertical/Short Takeoff and Landing) low speed and transition equivalent systems analysis
[AD-A131955] 03 p0330 N84-12156
Bank-to-turn control
[AD-A132491] 04 p0489 N84-13214
Polarized-interferometer feasibility study
[NASA-CR-170979] 11 p1656 N84-20805
Circadian rhythm of human heart rate during antiorthostatic tests 15 p2376 N84-25259
Morphological study of primate muscle fibers and microcirculation during head-down hypokinesia
15 p2377 N84-25262
Structural distinctions of thyroid C cells and parathyroid glands of primates during head-down hypokinesia
15 p2377 N84-25263
Disorientation in helicopter flight
16 p2536 N84-26284
Orientation and calibration of three-dimensional tachometer with aid of available angle data
17 p2651 N84-26954

ATTITUDE CONTROL
NT DIRECTIONAL CONTROL
NT LATERAL CONTROL
NT LONGITUDINAL CONTROL
NT SATELLITE ATTITUDE CONTROL
NT THRUST VECTOR CONTROL

Journal of the Chinese Society of Astronautics (selected articles)
[AD-A131032] 02 p0183 N84-11191
Control of flexible spacecraft by optimal model following 03 p0342 N84-12222
Integrated Flywheel Technology, 1983
[NASA-CP-2290] 03 p0343 N84-12228
Integrated Power/Attitude Control System (IPACS) 03 p0344 N84-12229
GSFC flywheel status 03 p0344 N84-12230
Space station control requirements and flywheel system weights for combined momentum and energy storage 03 p0344 N84-12236
Combined attitude control and energy storage 03 p0345 N84-12237
IPACS attitude control technology considerations 03 p0345 N84-12238
Flywheel electronics 03 p0345 N84-12239
IPACS electronics: Comments on the original design and current efforts at Langley Research Center 03 p0345 N84-12240
Annular Momentum Control Device (AMCD) 03 p0345 N84-12241
Advanced Control and Power System (ACAPS) technology program 03 p0345 N84-12243
Power system considerations and test activities 03 p0345 N84-12244
IPACS guidance navigation and control system considerations and test activities 03 p0346 N84-12245
Tentative STOL (short-takeoff-and-landing) flying qualities criteria for MIL standard and handbook
[AD-A132857] 05 p0629 N84-14138
Propulsion apparatus and method using boil-off gas from a cryogenic liquid — controlling spacecraft attitude and drag
[NASA-CASE-MFS-25946-1] 06 p0796 N84-15183
Fine pointing control of the solar UV telescope on the sounding rocket S-520-5
[ISAS-608] 06 p0938 N84-16094
Study of Attitude Control and Guidance System (ACGS) for orbit change stage
[ESA-CR(P)-1797] 08 p1120 N84-17285
Multivariable control laws for the AFTI/F-16
[AD-A135870] 09 p1258 N84-18210
Investigation of pulsed performance of an electrothermal hydrazine thruster, using a special see-through thruster
[AD-A137408] 10 p1451 N84-19473
Aircraft control position indicator
[NASA-CASE-LAR-12984-1] 11 p1607 N84-20522
Exhibit D modular design attitude control system study
[NASA-CR-170993] 11 p1623 N84-20625
Drift prediction for a roll-stabilized inertial measurement system
[AD-P002674] 11 p1657 N84-20811
Space Station Systems Technology Study. Volume 1: Executive summary
[NASA-CR-171014] 13 p1940 N84-22614
Attitude and shape control of large space structures 13 p2019 N84-23091
Programmable scan/read circuitry for charge coupled device imaging detectors — spacecraft attitude control and star trackers
[NASA-CASE-NPO-15345-1] 13 p2042 N84-23247
Advanced Platform Systems Technology study. Volume 2: Trade study and technology selection
[NASA-CR-173522] 14 p2115 N84-23672
Dynamics and control of flexible orbiting systems 14 p2245 N84-24481
Microprocessor based implementation of attitude and shape control of large space structures 14 p2245 N84-24482
Multivariable control laws for the AFTI/F-16
[AFIT/GE/EE/83S-4] 15 p2253 N84-24531
A piloted simulator investigation of decoupling helicopters by using a model following control system
[AD-A139976] 15 p2264 N84-24598
Guidance and Control Techniques for Advanced Space Vehicles
[AGARD-CP-350] 15 p2265 N84-24603
A double gimballed momentum wheel for precision 3-axis attitude control 15 p2266 N84-24608
Current work on high-grade space gyros at Ferranti in the UK 15 p2266 N84-24609
Overcoming unobservability in 3-axis stabilization of satellites 15 p2267 N84-24610
Multifunction spacecraft attitude estimation and navigation system 15 p2267 N84-24611
A filtered attitude determination system for spacecraft measurement and control 15 p2267 N84-24612
Inertial-optical attitude determination and model following control of maneuvering spacecraft 15 p2267 N84-24613
Docking mechanism for in-orbit assembly and spacecraft servicing 15 p2267 N84-24614
The influence of sensor and thruster imperfections on the attitude and position of a spacecraft performing a rendezvous 15 p2267 N84-24615
Modular design attitude control system
[NASA-CR-173684] 16 p2548 N84-26352
Satellite control by stabilizing flaps
[INPE-2889-TDL/145] 17 p2614 N84-26733
Multivariable digital control laws for the UH-60A black hawk helicopter
[AD-A141046] 18 p2797 N84-27746
Regions of attraction and ultimate boundedness for linear quadratic regulators with nonlinearities
[NASA-TP-2322] 18 p2923 N84-28538
Development of lateral-directional equivalent system models for selected U.S. Navy tactical aircraft
[AD-A141672] 19 p2968 N84-28810
Space Station Systems Technology Study. Volume 2: Trade study and technical selection technical report
[NASA-CR-173776] 19 p2981 N84-28891
The 1984 JANNAF Propulsion Meeting, volume 1
[AD-A142852] 20 p3135 N84-29906
Low thrust bipropellant engine development 20 p3136 N84-29912
Dual mode propulsion system engine testing for INTELSAT 20 p3136 N84-29913
Tracking and Data Relay Satellite launch recovery mission 20 p3137 N84-29916
A study of methods for alleviation of flow decay risk to the Galileo spacecraft 20 p3137 N84-29919
An integrated space station propulsion system 20 p3139 N84-29933
Thrust level requirements for space station on-orbit propulsion 20 p3140 N84-29935
Attitude determination using strapdown inertial sensors and adaptive estimation
[INPE-3180-PRE/545] 21 p3327 N84-31106
Helium thrustor propulsion system for precise attitude control and drag compensation of the gravity Probe-B satellite 21 p3349 N84-31242
Attitude dynamics of the Galileo spacecraft 21 p3352 N84-31262
Optimal digital control of a bank-to-turn missile
[AD-A144043] 23 p3699 N84-33447
Computer program to simulate the lateral-directional response of a high performance aircraft digital electronic flight control system
[AD-A144480] 24 p3856 N84-34447
Stochastic control of pitch motion of satellites using stabilizing flaps
[INPE-3235-PRE/584] 24 p3859 N84-34458

ATTITUDE GYROS
Canadian Attitude Sensing Experimental Package (CASEP) 08 p1110 N84-17223
Mechanics of rigid gyroscopic systems 17 p2643 N84-26910

ATTITUDE INDICATORS
A study on airborne integrated display system and human information processing
[NASA-TM-77338] 06 p0891 N84-15789
Pilot-aircraft interaction concerning a wind shear indication system 17 p2588 N84-26586

ATTITUDE STABILITY
NT DIRECTIONAL STABILITY
NT GYROSCOPIC STABILITY
NT LATERAL STABILITY
NT LONGITUDINAL STABILITY
Equations of small oscillations for inertial navigation system taking into account Earth's ellipsoidality 17 p2643 N84-26909
Control of quadriaxial cardan suspension 17 p2643 N84-26911

ATTRACTION
Regions of attraction and ultimate boundedness for linear quadratic regulators with nonlinearities
[NASA-TP-2322] 18 p2923 N84-28538

AUDIO EQUIPMENT
NT EARPHONES
NT LOUDSPEAKERS
NT MICROPHONES
Performance tests of 4-5 year old lithium sulphur dioxide batteries
[AD-A139842] 15 p2363 N84-25176
Individualizing with Computer-Assisted Instruction (CAI): Enhancing student motivation through computer-controlled audio
[AD-P003314] 18 p2909 N84-28453
Robotic seam tracking
[AD-A141769] 19 p3031 N84-29228
A method of measuring distortion noise in digital audio equipment
[NHK-LABS-NOTE-299] 20 p3177 N84-30174
Two-way unidirectional condenser microphone
[NHK-LABS-NOTE-297] 20 p3177 N84-30175
Underwater depth telemetry
[AD-D011054] 22 p3541 N84-32418
Frequency independent acoustic antenna
[AD-D011194] 24 p3963 N84-35093

AUDIO FREQUENCIES
Digital audio: Dynamic range control of digital audio signals
[BBC-RD-1983/17] 05 p0665 N84-14374
The effect of structured contextual tones on psychophysical frequency discrimination
[AD-A135433] 09 p1363 N84-18903
Cochlear mechanics: Analysis for a pure tone
[AD-A136436] 09 p1366 N84-19055
Pattern-directed attention in uncertain frequency detection
[AD-A135905] 10 p1547 N84-20142

AUDIO VISUAL EQUIPMENT
U TRAINING DEVICES
U VISUAL AIDS

AUDIOLOGY
Aermedical Support in Military Helicopter Operations
[AGARD-LS-134] 16 p2536 N84-26279
Hearing loss associated with helicopter flight 16 p2537 N84-26285
Perception of acoustic transients
[AD-A138201] 18 p2929 N84-28571
Physiological, Psychological, and Social Effects of Noise
[NASA-RP-1115] 19 p3069 N84-29465
Physiological functioning of the ear and masking 19 p3069 N84-29468
Presbycusis, sociocusis, and nosocusis 19 p3069 N84-29471
Activities report of the Institute of Sound and Vibration Research 19 p3100 N84-29693
Audiometric configurations and repeatability in noise-induced hearing loss
[ISVR-TR-123] 20 p3260 N84-30694
Communications biophysics 22 p3684 N84-33362

AUDIOMETRY
The audiomat: An automatic audiometer to be used in occupational audiometry
[IZF-1983-17] 12 p1900 N84-22372
Input filter compensation for switching regulators
[NASA-CR-173557] 15 p2327 N84-24975
Hearing loss associated with helicopter flight 16 p2537 N84-26285
Perception of binaural temporal shifts 18 p2898 N84-28387
Development of a microprocessor based audiometer for threshold shift studies
[AD-A142124] 19 p3065 N84-29448
Physiological, Psychological, and Social Effects of Noise
[NASA-RP-1115] 19 p3069 N84-29465
Physiological functioning of the ear and masking 19 p3069 N84-29468
Presbycusis, sociocusis, and nosocusis 19 p3069 N84-29471
Audiometric configurations and repeatability in noise-induced hearing loss
[ISVR-TR-123] 20 p3260 N84-30694

AUDITORY DEFECTS
Extent of hearing loss among Army aviators at Fort Rucker, Alabama
[AD-A132069] 03 p0415 N84-12714
Status and progress of studies on the nature of speech, instrumentation for its investigation and practical applications
[AD-A136416] 09 p1298 N84-18488
Hearing loss associated with helicopter flight 16 p2537 N84-26285
Physiological, Psychological, and Social Effects of Noise
[NASA-RP-1115] 19 p3069 N84-29465
Physiological functioning of the ear and masking 19 p3069 N84-29468
Noise-induced hearing loss and its prediction 19 p3069 N84-29472
Noise-induced hearing impairment and handicap 19 p3069 N84-29473
Nonauditory-system response to noise and effects on health 19 p3070 N84-29475
Audiometric configurations and repeatability in noise-induced hearing loss
[ISVR-TR-123] 20 p3260 N84-30694
Noise as a public health problem, volume 1
[AD-A142412] 21 p3436 N84-31799
Noise as a public health problem, volume 2
[AD-A142413] 21 p3436 N84-31800
Communications biophysics 22 p3684 N84-33362

AUDITORY PERCEPTION
The detectability of repetitive, periodic impulses
[AD-A132744] 05 p0713 N84-14675
Auditory induction of discrete tones in signal detection tasks
[AD-A135502] 08 p1227 N84-18019

Accuracy and speed of response to different voice types in a cockpit voice warning system
[AD-A135595] 09 p1301 N84-18503
Single trial brain electrical patterns of an auditory and visual perceptuomotor task
[AD-A135545] 09 p1302 N84-18899
Pattern-directed attention in uncertain frequency detection
[AD-A135905] 10 p1547 N84-20142
Vocoder analysis based on properties of the human auditory system
[AD-A139860] 14 p2141 N84-23837
Perception of binaural temporal shifts
18 p2898 N84-28387
Development of a microprocessor based audiometer for threshold shift studies
[AD-A142124] 19 p3065 N84-29448
Physiological functioning of the ear and masking
19 p3069 N84-29468
Communications biophysics 22 p3684 N84-33362
Spatial performance, cognitive representation and cerebral procedures
[AD-A144095] 23 p3811 N84-34163

AUDITORY SIGNALS
Audio signal management techniques
[AD-A130391] 01 p0062 N84-10410
A study on sound guidance for evacuation: Effect of megaphoned evacuation guidance in smoke
04 p0512 N84-13356
The detectability of repetitive, periodic impulses
[AD-A132744] 05 p0713 N84-14675
Auditory induction of discrete tones in signal detection tasks
[AD-A135502] 08 p1227 N84-18019
Perception of binaural temporal shifts
18 p2898 N84-28387
Perception of acoustic transients
[AD-A138201] 18 p2929 N84-28571
On measuring the acoustic intensity of hydroacoustic sources
[AD-A142484] 20 p3291 N84-30893
Relation between pressure pulse generated in optoacoustic receiver and intensity of stimulating laser pulse 21 p3478 N84-32047

AUDITORY STIMULI
The discrimination of pitch in pulse trains and speech
[AD-A142996] 21 p3492 N84-32127

AUDITORY TASKS
Pattern-directed attention in uncertain frequency detection
[AD-A135905] 10 p1547 N84-20142
Frequency encoded auditory display of the critical tracking task
[NASA-TM-85869] 13 p1931 N84-22558

AUFEIS (ICE)
Permafrost and the geothermal regime
14 p2165 N84-23964

AUGER EFFECT
Relativistic calculations and measurements of energies, Auger rates and lifetimes
[AD-A130094] 01 p0141 N84-10924
Ion makeup in upper atmosphere affected by source of X-ray radiation 19 p2973 N84-28850
Auger electron pumping of short wavelength lasers
[DE84-009240] 19 p3030 N84-29217
Relativistic calculations and measurements of energies, Auger rates, and lifetimes
[AD-A143423] 22 p3663 N84-33220

AUGER SPECTROSCOPY
Effect of oxygen monolayer coverages on titanium sputtering yields as determined by simultaneous laser fluorescence and Auger measurements
[DE83-014716] 01 p0046 N84-10296
Matrix effects in ion-induced emission as observed in Ne collisions with Cu-Mg and Cu-Al alloys
[NASA-TM-83061] 01 p0141 N84-10923
Auger and depth profile analysis of synthetic crystals for dispersion of soft X-rays — tungsten carbides
[DE83-015257] 02 p0293 N84-11916
Quantitative determination of the intensities of known components in spectra obtained from surface analytical techniques
[DE84-000926] 04 p0493 N84-13239
Understanding localized behavior in the Auger spectra of covalent systems such as graphite
[AD-A133924] 05 p0647 N84-14255
Proceedings of Symposium on Surface Science and its Industrial Implications
[ISBN-0-7988-2417-4] 06 p0814 N84-15298
Experience in surface analysis applied to technical material problems 06 p0815 N84-15303
The use of Auger electron spectroscopy and ellipsometry in the study of corrosion inhibition
06 p0815 N84-15307
Surface segration and diffusion investigations by means of AES 06 p0816 N84-15319
Impedance and ellipsometer measurements of lithium electrodes in propylene carbonate solutions
[DE84-003922] 07 p0998 N84-16475
Software for computer controlled X-ray photoelectron and Auger Spectroscopy
[DE84-003912] 07 p1056 N84-16837
Electron spectroscopy study of SiC
[AD-A134352] 07 p1080 N84-17023
X-ray photoelectron and Auger electron spectroscopic study of the CdTe surface resulting from various surface pretreatments: Correlations of photoelectrochemical and capacitance-potential behavior with surface chemical composition
[AD-A138601] 13 p1956 N84-22714
Fast ion atomic spectroscopy
[DE84-006720] 15 p2404 N84-25432
Determination of elemental intensities from direct Auger spectra by pre-filtered least squares fitting
[AERE-R-11226] 18 p2927 N84-28561
Crystalline effects in Auger electron spectroscopy
[AERE-R-11051] 18 p2942 N84-28658

AUGMENTATION
NT STABILITY AUGMENTATION
NT THRUST AUGMENTATION
Proposed revisions to MIL-F-8785C related to flight safety of augmented aircraft. Volume 1. Section 1 - 7
[AD-A131414] 02 p0175 N84-11153
Proposed revisions to MIL-F-8785C related to flight safety of augmented aircraft. Volume 2. Appendices A - F
[AD-A131415] 02 p0176 N84-11154
Proposed revisions to MIL-F-8785C related to flight safety of augmented aircraft. Volume 3. Appendix G. Pilot comments
[AD-A131416] 02 p0176 N84-11155
Satellite broadcasting: Protection ratio requirements for enhanced transmissions using extended PAL vision and digital sound signals
[BBC-RD-1983/18] 07 p0986 N84-16386
E/O (Electro-Optical) augmentation environmental temperature test
[AD-A134296] 07 p1075 N84-16988
NASA Aircraft Controls Research, 1983
[NASA-CP-2296] 11 p1615 N84-20567
Flying qualities criteria for superaugmented aircraft
11 p1615 N84-20569
Large aircraft handling qualities
11 p1615 N84-20570
A summary of rotorcraft handling qualities research at NASA Ames Research Center 11 p1615 N84-20571
Implications of control technology on aircraft design
11 p1615 N84-20573
Location errors in time-of-arrival types of systems with augmenting equations
[DE84-006250] 11 p1717 N84-21198
Design of a complete multivariable digital flight control system
[AFIT/GE/EE/82D-18] 15 p2253 N84-24532
Optimal cooperative control synthesis applied to a control-configured aircraft
[NASA-CR-170411] 15 p2264 N84-24593
The influence of localized precipation-induced D-region ionization enhancements on subionospheric VLF progation 17 p2726 N84-27348
Enhancements to the codata definition language
[DE84-010579] 20 p3274 N84-30783
Numerical solution of viscoplastic flow problems by augmented lagrangians
[AD-A142793] 21 p3400 N84-31566
Method and apparatus for enhancing microchannel plate data
[DE84-014498] 24 p3899 N84-34690

AURORAL ACTIVITY
U AURORAS

AURORAL ARCS
NT RED ARCS
The Koresn auroral records, 1507 - 1747 and the SAR (Stable Auroral Red) arcs
[NASA-CR-174472] 01 p0104 N84-10677
Auroral arc classification scheme based on the observed arc-associated electric field pattern
[TRITA-EPP-83-01] 02 p0251 N84-11641
Experimental and theoretical aspects of the generation of MHD waves by chemical releases in the ionosphere
05 p0639 N84-14206
Project Waterhole III — ionospheric perturbation experiments 05 p0640 N84-14210
Sequential barium releases to study tangential versus rotational discontinuities in auroral arcs
05 p0640 N84-14215
Study plasma interactions in the auroral ionosphere
[NASA-CR-175352] 07 p1032 N84-16698
Observations of fast magnetospheric echoes of artificially injected electrons above an auroral arc
[BMFT-FB-W-84-014] 19 p3055 N84-29390

AURORAL ECHOES
Fast magnetospheric echoes of energetic electron beams 05 p0636 N84-14187

AURORAL ELECTROJETS
Review of ionospheric VLF and ELF generation
05 p0634 N84-14174
High-latitude ionospheric irregularities
[AD-A142648] 20 p3241 N84-30573

AURORAL IONIZATION
Results from wave injection experiments on the Porcupine rocket 05 p0635 N84-14175
Auroral ion acceleration
[PR-783] 08 p1184 N84-17715
Shuttle Orbiter charging in polar Earth orbit
[AD-P002116] 16 p2524 N84-26202
The importance of neutrals, transient effects, and the Earth's magnetic field on sheath structure
[AD-P002119] 16 p2524 N84-26205
Models of the ionospheric environment
[AD-P002121] 16 p2524 N84-26207
Questions that need to be answered
[AD-P002127] 16 p2525 N84-26213
Studies of some plasma instabilities in space physics
17 p2766 N84-27562
Overview of ultraviolet remote sensing of the ionosphere
[AD-A141533] 19 p3041 N84-29294

AURORAL IRRADIATION
Auroral kilometric radiation: Wave modes, harmonic and source region electron density structures
[NASA-TM-86101] 15 p2367 N84-25203

AURORAL ZONES
The anisotropy of high latitude nighttime F-region irregularities
[AD-A131215] 01 p0108 N84-10688
Energization of ions by oblique double layers
04 p0561 N84-13700
Summary of ionospheric heating experiments at Tromsoe (Norway) 05 p0635 N84-14178
Ionospheric modification by electron beams. Results from electron accelerator experiments on rockets in Norway 05 p0637 N84-14188
Results of foil cloud experiments performed at Esrange (Kiruna, Sweden) and Andenes (Andoya, Norway) during the Energy Budget Campaign, November 1981 — wind measurement
[BMFT-FB-W-83-012] 07 p1034 N84-16710
Effects of small-scale plasma disturbance on the IKB-1300 spacecraft potential
[PR-839] 08 p1109 N84-17208
Chatanika radar and S3-2 measurements of auroral-zone electrodynamics in the midnight sector
[AD-A137947] 11 p1644 N84-20748
A study of low energy electron precipitations and auroral phenomena by using the USAF polar orbiting satellites
[AD-A137888] 11 p1682 N84-20979
Observations of short period magnetic pulsations during the SBARMO-79 campaign: Data summary
[REPT-90/1982] 13 p2012 N84-23052
The worst case charging environment
[AD-P002108] 16 p2522 N84-26194
Estimates of precipitating electron power flux from simultaneous DMSP auroral image and ISEE-1 AKR observations
[AD-P002109] 16 p2523 N84-26195
Environmental interactions of polar orbiting satellites
[AD-P002110] 16 p2523 N84-26196
Low frequency electric and magnetic noise along the auroral field lines
[NASA-CR-173641] 17 p2727 N84-27358
Distributions of aurora and ionospheric currents observed simultaneously on a global scale
[AD-A140615] 17 p2727 N84-27360
Diffuse auroral zone. Part 7: Dynamics of equatorial boundary in field of diffuse electron spill in evening sector 19 p2973 N84-28846
HF omnidirectional spectral CW auroral radar (HF-OSCAR) at very high latitude. Part 1: Technique
[DMI-GEOPHYS-PAPERS-R-67]
19 p3010 N84-29079
Geophysical plasmas and atmospheric modeling
[AD-A142573] 20 p3240 N84-30572
First observations of 140 MHz plasma line backscatter during healthy experiments at Tromsoe
[UIO-SR-84-02] 20 p3243 N84-30588

AURORAS
NT AURORAL ARCS
NT RADIO AURORAS
NT RED ARCS
The Korean auroral records, 1507 - 1747 and the SAR (Stable Auroral Red) arcs
[NASA-CR-174472] 01 p0104 N84-10677
High-altitude observations of an intense inverted-V event
[NASA-CR-174468] 01 p0104 N84-10678

Evidence of East-West structure in large-scale F-region plasma enhancements in the auroral zone
[AD-A131263] 01 p0106 N84-10689
Nuclear-induced lightning aurora experiment
[AD-A131274] 02 p0249 N84-11628
Solar wind variations in the 60-100 year period range: A review 03 p0469 N84-13092
Periodicities in the occurrence of aurora as indicators of solar variability 03 p0470 N84-13093
Systematics of the equatorward diffuse auroral boundary
[AD-A132897] 05 p0704 N84-14617
A study of the atmosphere and ionosphere using satellite observations of 300-1400 Ang airglow
[NASA-CR-173146] 07 p1028 N84-16663
Auroral ion acceleration
[PR-783] 08 p1184 N84-17715
Plasma sheet behavior during substorms
[DE84-003833] 10 p1537 N84-20070
Velocity shear stabilization of the current convective instability
[AD-A137963] 12 p1909 N84-22439
Activities report of the Institute for Extraterrestrial Physics 13 p2069 N84-23407
Long wavelength limit of the current convective instability
[AD-A139172] 14 p2228 N84-24358
Activities report of the Institute of Extraterrestrial Physics
[MPE-181] 15 p2423 N84-25557
Solar control of winter mesospheric echo occurrence at Poker Flat, Alaska 17 p2686 N84-27102
Distributions of aurora and ionospheric currents observed simultaneously on a global scale
[AD-A140615] 17 p2727 N84-27360
Spacescapes/payloads for the arts: Administrative and technical aspects of the New Wave Ruby Falls Get Away Special Project are reviewed in perspective 18 p2799 N84-27762
Space physics research activities report
[ISSN-0347-6405] 18 p2928 N84-28567
Plasma Physics on auroral field lines: The formation of ion conic distributions
[NASA-CR-173683] 18 p2932 N84-28595
A numerical study of artificial electron aurora experiments
[ISAS-611] 20 p3240 N84-30568
Influence of magnetic shear on the collisional current driven ion cyclotron instability
[AD-A143391] 22 p3659 N84-33191
Path integrated growth of auroral kilometric radiation
[NASA-CR-173995] 24 p3919 N84-34812

AUSTENITE
Dilatometric investigation of phase-transformation kinetics in HP 9-4-20 steel
[DE84-001180] 04 p0500 N84-13280
Heat treatment and residual austenite
[CSIR-TRANS-1704] 08 p1130 N84-17349
On the effect of fine grain size on the M sub s temperature in Fe-27Ni-0.025C alloys
[AD-A134607] 08 p1133 N84-17366
Martensitic transformations, relaxation and acoustic-emission properties of some alloys of the Fe-Ni-Mn system
[BLL-M-35434-(5828.4)] 09 p1281 N84-18363
Austenitizing and microstructure of a HT-9 steel
[DE84-004914] 11 p1635 N84-20687
Carbide formation and fracture of high carbon steel
[AD-A138519] 12 p1798 N84-21730
Effect of precipitated austenite on the fracture of a ferritic cryogenic steel
[DE84-014604] 22 p3557 N84-32521

AUSTENITIC STAINLESS STEELS
Properties of manganese alloys for cryogenic engineering
[BLL-M-35127-(5828.4)] 01 p0040 N84-10251
Stress corrosion resistance of Z 6 CN 18-9 steel: Influence of surface treatment (shot peening, polishing)
[BLL-RISLEY-TR-4777-(9091.9F)] 01 p0041 N84-10265
Tensile behavior of three commercial ferritic steels after low-temperature irradiation
[DE83-014044] 02 p0195 N84-11264
Lattice-parameter measurement in retained austenite by CBED
[DE83-013296] 02 p0195 N84-11267
Low activation approaches to materials development
[DE83-015972] 02 p0196 N84-11273
Helium damage in austenitic stainless steels
[DE83-017494] 03 p0355 N84-12309
Non-uniformity of elastic micro-deformations in austenitic steels
[BLL-M-35357-(5828.4)] 04 p0497 N84-13261
Corrosion of ferrous alloys in eutectic lead-lithium environments
[DE84-000593] 04 p0502 N84-13292
Mass transfer behavior of a modified austenitic stainless steel in lithium
[DE84-000338] 04 p0502 N84-13293
A comparison of the irradiated tensile properties of a high-manganese austenitic steel and type 316 stainless steel
[DE84-000260] 04 p0502 N84-13294
Miniaturized disk bend tests of neutron-irradiated path A type alloys
[DE84-001277] 04 p0549 N84-13618
Solidification and phase stability in austenitic stainless steels
[DE84-001937] 05 p0656 N84-14312
Factors which determine the swelling rate of austenitic stainless steels
[DE84-001474] 05 p0656 N84-14315
Corrosion of TIG welded austenitic stainless steels
[BLL-WINDSCALE-TR-959-(9091.F)] 06 p0803 N84-15235
Effects of pulsed dual-ion irradiation on phase transformations and microstructure in Ti-modified austenitic alloy
[DE84-001985] 06 p0807 N84-15257
Yield stress of type 21-6-9 stainless steel over a wide range of strain rate (10(-5) to 10-4 s(-1)) and temperature
[DE83-017159] 06 p0807 N84-15259
Improved swelling resistance for PCA austenitic stainless steel under HFIR irradiation through microstructural control
[DE84-003203] 08 p1133 N84-17370
Effects of pulsed and/or dual ion irradiation on microstructural evolution in a Ti and Si modified Austenitic alloy
[DE84-003411] 08 p1134 N84-17374
Temperature aspects of pulsed ion bombardment in an austenitic alloy
[DE84-003382] 08 p1134 N84-17376
The study and modeling of high temperature fatigue crack propagation in austenitic stainless steel
[DE84-005391] 10 p1462 N84-19552
Emission-proof valves — for chemical plants
[BMFT-FB-HA-83-028] 10 p1503 N84-19822
Standard reference material containing 2.5 percent austenite (SRM 488)
[PB84-143296] 12 p1799 N84-21735
Fracture toughness processes
[DE84-007244] 13 p2002 N84-22989
Fracture temperature and flaw growth in nitronic 40 at cryogenic temperatures
[NASA-TP-2312] 14 p2127 N84-23750
The yield stress of type 21-6-9 stainless steel over a wide range of strain rate (10(-5) to 10(4) s(-1)) and temperature
[DE84-000914] 15 p2298 N84-24793
Experimental verification of constitutive equations for plasticity under biaxial, cyclic and nonradial loading conditions — of austenitic steel
[REPT-5011202-81-1] 17 p2625 N84-26798
Prediction of ductile crack growth in the austenitic steel WN 1.4948 at ambient and elevated temperature
[REPT-5011202-81-2] 17 p2625 N84-26799
Experimental verification of constitutive equations for creep and the interaction of creep and plasticity under biaxial loading conditions
[REPT-5011202-81-3] 17 p2625 N84-26800
Fatigue crack growth in austenitic stainless steel — cladding; PWR
[ND-R-802(S)] 18 p2813 N84-27856
The influence of overheating on the development of structures, on ductility, and on corrosion resistance of the heat effect zones of stabilized austenitic nickel-chromium steels
[MPA-83-03] 18 p2815 N84-27872
Cladding of carbon steel with stainless steel
[BMFT-FB-T-84-030] 18 p2816 N84-27877
Effect of austenitisation heat treatment on the fracture resistance and temper embrittlement of MnMoNi steels
[AERE-R-11043] 18 p2816 N84-27882
Chromium-magnesium stainless steels, resistant to stress corrosion cracking in magnesium and calcium chloride solutions
[BLL-RISLEY-TRANS-4571-(9091.9)] 22 p3550 N84-32477
Stress corrosion cracking of austenitic stainless steels in sea water: An investigation of test methods
[BLL-RISLEY-TRANS-4568-(9091.9)] 22 p3551 N84-32478
Contribution ot the high temperature deformation behavior of the austenitic steel 1.4981 after neutron irradiation
[JUEL-1904] 23 p3720 N84-33584

AUSTRALIA
Australian Oceanographic Data Centre bulletin 16
[AD-A132002] 03 p0413 N84-12701
Tropical cyclones in the Australian/southwest Pacific region 05 p0710 N84-14654
Marine fouling at HMAS Stirling, western Australia
[MRL-R-914] 11 p1692 N84-21038
Checklist and bibliography of benthic marine macroalgae recorded from northern Australia. 1: Rhodophyta
[MRL-R-912] 11 p1692 N84-21039
Configuration of eastern Gondwanaland 14 p2160 N84-23936
Planned marine geophysical geological surveys of the Wilkes Land and Ross Sea margins 14 p2160 N84-23939
Handbook - H8: Description of services 15 p2367 N84-25202
Yearbook of the Bureau of Mineral Resources, Geology and Geophysics, Canberra, 1 July 1982 - 30 June 1983
[BMR-83] 19 p3037 N84-29266
Fossil fuels 19 p3037 N84-29267
Minerals 19 p3038 N84-29268
Groundwater 19 p3038 N84-29269
Earthquake hazards 19 p3038 N84-29270
National and international geoscience maps 19 p3038 N84-29271
Petroleum and minerals resource assessment 19 p3038 N84-29273
Guide to the geology of Australia
[BMR-BULL-181] 23 p3797 N84-34076
Oligocene and Miocene larger foraminiferida from Australia and New Zealand
[BMR-BULL-188] 23 p3797 N84-34077

AUSTRIA
Reports from the German Meteorological Service. No 21: The evolution of meteorological observations in Austria, including Bohemia and Moravia up to the year 1700
[ISBN-3-88148-206-3] 14 p2178 N84-24046

AUTOCATALYSIS
A thermal stability test for primary explosive stab sensitizers: Study of the thermal and hydrolytic stability of 1-picryl-5-nitrotetrazole
[MRL-R-918] 16 p2473 N84-25853

AUTOCLAVES
Study of the kinetics of hydrogenation using aged catalysis
[DE84-006588] 21 p3362 N84-31330

AUTOCLAVING
MoO3, ex MoS2, with further processing of the metal-bearing waste sulfuric acid generated in the process
[BMFT-FB-T-83-297] 15 p2366 N84-25196

AUTOCOLLIMATORS
U COLLIMATORS

AUTOCORRELATION
Algorithms for single-signal and multisignal minimum-cross-entropy spectrum analysis
[AD-A132400] 04 p0520 N84-13420
A unified approach to ARMA (autoregressive-moving average) model identification and preliminary estimation
[AD-A136426] 09 p1381 N84-19020
The autocorrelation function of seasonal ARMA models
[AD-A137929] 11 p1715 N84-21182
A recursive linear predictive vocoder
[AD-A138008] 12 p1805 N84-21770
Improvement in analog error autocorrection circuit 17 p2634 N84-26855
An autoregressive process for Beta random variables
[AD-A140848] 17 p2759 N84-27514
A generalization of autocorrelation and partial autocorrelation functions useful for identification of ARMA(p,q) processes
[AD-A140860] 17 p2759 N84-27516
A maximum-likelihood approach to image segmentation by texture
[AD-A142323] 19 p3090 N84-29619
Autocorrelation receiver for Doppler short-range radar systems 22 p3566 N84-32589

AUTOIONIZATION
H Division: Materials physics
[DE84-001083] 07 p1068 N84-16939
Enhancement of the excitation and deexcitation rate coefficient of ions in dense plasmas: The role of autoionizing states
[IPPJ-661] 11 p1733 N84-21302
Absolute photoionization cross sections of atomic oxygen
[NASA-CR-173873] 21 p3492 N84-32130

AUTOMATA THEORY
An overview of artificial intelligence and robotics. Volume 1: Artificial intelligence. Part C: Basic AI topics
[NASA-TM-85839] 05 p0732 N84-14805
A learning approach to routing in data communication networks
[REPT-8212] 06 p0899 N84-15834
A survey of European robotics research
[AD-A138952] 13 p2024 N84-23122

An efficient method for the conversion to residue number systems and its application to convolutions
[FUB-53-1982] 14 p2220 N84-24319
2.0 GHz to 4.0 GHz automated radiometer operation and service manual
[PB84-165158] 17 p2672 N84-27031

AUTOMATED EN ROUTE ATC
Automated en route air traffic control algorithmic specifications. Volume 3: Flight plan conflict probe
[AD-A136795] 10 p1425 N84-19319
Operational and functional description of AERA 1.01
[AD-A136831] 10 p1425 N84-19322

AUTOMATIC CONTROL
NT ACTIVE CONTROL
NT ADAPTIVE CONTROL
NT AUTOMATIC FLIGHT CONTROL
NT AUTOMATIC FREQUENCY CONTROL
NT AUTOMATIC GAIN CONTROL
NT AUTOMATIC LANDING CONTROL
NT CASCADE CONTROL
NT DYNAMIC CONTROL
NT FEEDBACK CONTROL
NT FEEDFORWARD CONTROL
NT LEARNING MACHINES
NT NUMERICAL CONTROL
NT OFF-ON CONTROL
NT OPTIMAL CONTROL
NT PROPORTIONAL CONTROL
NT SELF ADAPTIVE CONTROL SYSTEMS
NT SELF ALIGNMENT
NT SEQUENTIAL CONTROL
NT TIME OPTIMAL CONTROL
Start automated traffic control system operational at Krasnodar 01 p0001 N84-10004
Automatic combustor controller development and liquid-fuel combustor design program
[AD-A130368] 01 p0052 N84-10335
Survey of radar Automatic Detection and Tracking (ADT)
[AD-A130358] 01 p0064 N84-10420
Microcomputer aided tracking (MCAT)
[AD-A130651] 01 p0065 N84-10426
Gust alleviation — numerical analysis 02 p0181 N84-11180
Proposed fast-response oxygen monitoring and control system for the Langley 8-foot high-temperature tunnel
[NASA-TP-2218] 02 p0223 N84-11460
Computer vision research and its applications to automated cartography
[AD-A131289] 02 p0240 N84-11572
Method for evaluating operator inputs to digital controllers
[DE83-013521] 02 p0269 N84-11763
Robotics: An introduction to today's robot and future trends
[AD-A132070] 03 p0423 N84-12768
Flight-test of the glide-slope track and flare-control laws for an automatic landing system for a powered-lift STOL airplane
[NASA-TP-2128] 04 p0487 N84-13198
Automated standard nautical chart production
[AD-A132249] 04 p0553 N84-13644
A general measurement design philosophy for the Kalman filter estimation with special application given to the imaging radar autofocus update
[AD-A133895] 05 p0734 N84-14819
Implementation of automatic focusing algorithms for a computer vision system with camera control
[AD-A133492] 06 p0894 N84-15807
Laboratory automation of a quadrupole mass spectrometer 06 p0932 N84-16053
Reports on cartography and geodesy, series 1: Original reports, no. 69
[ISSN-0469-4236] 07 p1018 N84-16602
Walking machine control programming
[AD-A134435] 07 p1051 N84-16809
Deployable beam flight experiment (MAST) 08 p1110 N84-17218
Power subsystem automation study
[NASA-CR-170974] 08 p1180 N84-17686
Experience with a regular expression compiler
[AD-A135202] 08 p1209 N84-17888
Center of excellence in aerospace manufacturing automation
[AD-A136477] 09 p1249 N84-18155
The integrated manual and automatic control of complex flight systems
[NASA-CR-173308] 09 p1257 N84-18207
A structured design methodology for VLSI systems
[AD-A135725] 09 p1308 N84-18554
Picosecond time difference measurements utilizing CAMAC-based ANSI/IEEE-488 data acquisition hardware. Operating manual IE3, version 1.0
[PB84-116011] 09 p1319 N84-18616
Automated storage and retrieval systems--a consolidation of guidance for project management and implementation
[AD-A135571] 09 p1404 N84-19175
Automated en route air traffic control algorithmic specifications. Volume 4: Sector workload probe
[AD-A136796] 10 p1425 N84-19320
The automatic remote sensing system on a 320 meter meteorological tower
[AD-A137144] 10 p1539 N84-20085
Self-indexing latch system
[NASA-CASE-MFS-25956-1] 11 p1664 N84-20860
Kinematic and dynamic analysis of high-speed intermittent-motion mechanisms
[AD-A137903] 11 p1665 N84-20862
Graphics specification for graphical requirements for computer-aided control system design
[DE84-004367] 11 p1708 N84-21135
Flexible automated waveform recorder data acquisition program
[DE84-005553] 11 p1709 N84-21141
Mechanization of assembly and welding operations in manufacture of ship hull structures 12 p1787 N84-21654
Introduction of productive welding and surfacing technological processes to production of nuclear powerplant equipment 12 p1787 N84-21655
Interactive computer graphics for system analysis
[AD-A138025] 12 p1879 N84-22250
Research in man-machine interaction discussed 13 p2065 N84-23393
Automatic synthesis of fine-motion strategies for robots
[AD-A139532] 14 p2188 N84-24107
Smart motor technology 15 p2349 N84-25096
Fundamental design problems of distributed systems for the hard real-time environment
[AD-A139996] 15 p2392 N84-25358
Error analysis for marine geodetic control using the global positioning system
[AD-A140566] 17 p2605 N84-26687
Automatic measurement of bandwidth of microwave resonators 17 p2638 N84-26880
Description of FRG basic research in X-ray lithography 17 p2640 N84-26894
Scanning photoelectric devices of search and tracking
[AD-A132566] 17 p2671 N84-27027
Automatic control of a visual physiology experiment, using MINC
[AD-A140607] 17 p2745 N84-27431
Conceptual design of a robotic loader system for remote missile launchers
[AD-A141270] 18 p2802 N84-27781
Automated inspection of analog-digital standard replacement components 18 p2824 N84-27927
Requirements for a transformerless power conditioning system
[NASA-CR-173742] 18 p2833 N84-27981
Proceedings of the Fifth Parabolic Dish Solar Thermal Power Program
[NASA-CR-173745] 18 p2871 N84-28224
White Cliffs: Operating experience 18 p2874 N84-28250
East Europe Report: Science and technology. Czechoslovakia: Computer technology examined
[JPRS-ESA-84-022] 18 p2918 N84-28499
VARS: Multilevel automated control system 18 p2918 N84-28507
HP-85/Mini-Ranger navigation system
[AD-A142131] 19 p2961 N84-28770
Solid state power controller fuse development program
[AD-A142118] 19 p3016 N84-29118
Meteorological interactive data display system (MIDDA)
[AD-A141864] 19 p3059 N84-29406
Development of a microprocessor based audiometer for threshold shift studies
[AD-A142124] 19 p3065 N84-29448
LONEX (Laboratory Office Network Experiment) cost/benefits study, volume 1
[AD-A141396] 19 p3114 N84-29786
LONEX (Laboatory Office Network Experiment) cost/benefits study, volume 2
[AD-A141397] 19 p3114 N84-29787
Local automation model: System specification
[AD-A141503] 19 p3116 N84-29798
Design and development of an automatically controlled variable-load energy absorber
[AD-A142683] 20 p3128 N84-29868
Energy management for crew escape systems 20 p3141 N84-29945
Microprocessor automation for the Dynaflect Deflection Measuring System
[PB84-180413] 20 p3171 N84-30135
Analyzer for determining helium-4 in the part-per-billion range
[PB84-189554] 20 p3191 N84-30272
Control computer and automation subsystem equipment in Delfin Facility 20 p3289 N84-30680
Automatic beam centering at the SSC interaction regions
[DE84-010710] 20 p3292 N84-30902
Architectural and control considerations for a high speed signal processor implemented with an Ada (Trademark) executive
[AD-P003594] 21 p3341 N84-31199
Automated Construction Management System (ACMS). Volume 1: User's guide
[AD-A143031] 21 p3465 N84-31971
Automatic audit information system for software development
[AD-P003499] 21 p3515 N84-32265
Special features of information presentation in teaching systems
[BLL-M-35604-(5828.4)] 21 p3516 N84-32273
The Record of Electrical and Communication Engineering Conversazione, volume 53, no. 1, Jul. 1984
[ISSN-0385-7719] 22 p3563 N84-32565
An automatic syntheses of hardware algorithm 22 p3563 N84-32568
The 64-m antenna automatic subreflector focusing controller 22 p3573 N84-32628
Development and characterization analysis of a radar polarimeter
[NASA-CR-175259] 22 p3598 N84-32785
Static methods in the design of nonlinear automatic control systems
[AD-A143297] 22 p3644 N84-33101
Assessment of trends of input actions of inertial objects
[BLL-M-35689-(5828.4)] 22 p3644 N84-33104
West Europe report: Science and technology
[JPRS-WST-84-030] 22 p3651 N84-33141
Administrative obstacles to robotization recalled 23 p3728 N84-33626
Control and supervision of nut fastening by means of a microcomputer
[BMFT-FB-T-84-106] 23 p3757 N84-33818
The microcode for the control processor of the ARO (array oriented processor) array processor
[AD-A143765] 23 p3813 N84-34175
Software for a computer controlled laser Doppler velocimeter
[AD-A143786] 23 p3815 N84-34193
An optimum policy for a system of maintenance with control by a repair time distribution
[INPE-3131-PRE/522] 23 p3833 N84-34313
USSR report: Cybernetics, computers and automation technology
[JPRS-UCC-84-001] 24 p3940 N84-34942
Autonomous microprocessor controllers for scientific research automation systems 24 p3941 N84-34946
Academician Vamos interviewed on automation related problems 24 p3944 N84-34972
An alternative mathematical approach to movement as complex human behavior 24 p3957 N84-35054

AUTOMATIC CONTROL VALVES
NT PRESSURE REGULATORS
A servo controlled rapid response anti-g valve
[AD-A134042] 05 p0715 N84-14687
Development of an electrically controllable gas flow valve for use in patient ventilators
[BMFT-FB-T-84-129] 23 p3757 N84-33819

AUTOMATIC DATA PROCESSING
U DATA PROCESSING

AUTOMATIC FLIGHT CONTROL
NT AUTOMATIC LANDING CONTROL
An integrated AFCS for the "PROFILE"-mode 03 p0317 N84-12069
The use of a formal simulator to verify a simple real time control program
[AD-A131732] 03 p0420 N84-12745
Frequency-shaped estimation and robust controller design for aircraft flight control in wind disturbances 05 p0632 N84-14154
AFTI/F-16: An integrated system approach to combat automation 06 p0773 N84-15063
Nonlinear transformat
[NASA-CR-166506] 06 p0905 N84-15877
Flight test experience with pilot-induced-oscillation suppression filters
[NASA-TM-86028] 07 p0958 N84-16213
Development of a redundant computer system for flight augmentation
[BMFT-FB-W-83-027] 10 p1431 N84-19356
Functional integration of vertical flight path and speed control using energy principles 11 p1618 N84-20588
AFTI/F-16 digital flight control system experience 11 p1619 N84-20592

Multiple input - multiple output flight control design with highly uncertain parameters; application to the C-135 aircraft
[AD-A138011] 12 p1772 N84-21554
The use of a formal simulator to verify a simple real time control program 15 p2388 N84-25322
A representational basis for the development of a distributed expert system for Space Shuttle flight control
[NASA-TM-58258] 16 p2544 N84-26328
Status, future plans for Aeroflot's meteorological support 18 p2790 N84-27711
Software control and system configuration management: A systems-wide approach
[NASA-TM-85908] 21 p3328 N84-31112
Feasibility study of a low cost Energy Performance Management System (EPMS) — automatic flight control
[BMFT-FB-W-84-015] 21 p3328 N84-31116

AUTOMATIC FREQUENCY CONTROL
Carrier acquisition and tracking by a COSTAS-loop with automatic frequency control
[DFVLR-FB-83-24] 08 p1108 N84-17202
Frequency modulation with noise in a sampled Automatic Frequency Control (AFC) system 17 p2652 N84-26963

AUTOMATIC GAIN CONTROL
Digital audio: Dynamic range control of digital audio signals
[BBC-RD-1983/17] 05 p0665 N84-14374
Functional electronic amplifiers with broad dynamic band
[AD-A133774] 05 p0675 N84-14433
Automatic gain control circuit for video signals of scenes of varying illumination levels
[AD-A144198] 24 p3894 N84-34658

AUTOMATIC LANDING CONTROL
Flight test results for the Digital Integrated Automatic Landing Systems (DIALS): A modern control full-state feedback design 11 p1618 N84-20589
Ministry official on improving all-weather aviation capabilities 14 p2093 N84-23552
A flight-test and simulation evaluation of the longitudinal final approach and landing performance of an automatic system for a light wing loading STOL aircraft equipped with wing spoilers
[NASA-TM-85873] 22 p3537 N84-32393

AUTOMATIC PATTERN RECOGNITION
U PATTERN RECOGNITION

AUTOMATIC PILOTS
Single pilot IFR program overview and status 03 p0311 N84-12030
General aviation single pilot IFR autopilot study 03 p0312 N84-12035
Flight test validation of a design procedure for digital autopilots 03 p0312 N84-12036
A simulator evaluation of an automatic terminal approach system 03 p0312 N84-12037
Control/display trade-off study for single-pilot instrument flight rule operations 03 p0313 N84-12044
The use of a formal simulator to verify a simple real time control program
[AD-A131732] 03 p0420 N84-12745
Fixed-base simulator investigation of Display/SCAS requirements for army helicopter low-speed tasks
[AD-A134123] 05 p0630 N84-14140
Tornado autopilot measures to ensure survivability after failures 06 p0777 N84-15094
Fast estimation of state feedback gain for the design of aircraft autopilots
[GU-AERO-8305] 15 p2264 N84-24596
Design and analysis of Coordinated Bank-To-Turn (CBTT) autopilots for Bank-To-Turn (BTT) missiles
[AD-A140103] 15 p2280 N84-24698
The use of a formal simulator to verify a simple real time control program 15 p2388 N84-25322
CSTS: The software test system for the TORNADO auto pilot
[MBB-FE-325/S/PUB/118] 16 p2562 N84-26436
Autopilot performance evaluation Tornado experience and future applications 24 p3849 N84-34407

AUTOMATIC ROCKET IMPACT PREDICTORS
U COMPUTERIZED SIMULATION
U IMPACT PREDICTION

AUTOMATIC TEST EQUIPMENT
AVT 110 automatic multiple probe tester described 02 p0205 N84-11338
Technology assessment: 1983 forecast of future test technology requirements
[AD-A132421] 04 p0623 N84-14107
A Q-GERT analysis of the effect of improved automatic testing on F-16 aircraft availability
[AD-A134280] 07 p0945 N84-16128
ATE, ATLAS and the microprocessor — automatic test equipment (ATE); abreviated test language for all systems (ATLAS) 08 p1207 N84-17872
Army digital test requirements analytic report
[AD-A137394] 10 p1486 N84-19714
Evaluation of automatic test equipment for use with the Army helicopter improvement program
[AD-A137647] 11 p1607 N84-20523
Development of automatic measuring system for image pickup tubes
[NHK-LN-295] 15 p2335 N84-25014
An inductive process in automatic recording of crack propagation
[ISD-298] 16 p2502 N84-26056
B-1B Avionics/Automatic test equipment: Maintenance queueing analysis
[AD-A141175] 18 p2795 N84-27736
Experimental research facility for creep-rupture testing of tantalum alloy T-111
[DE84-012030] 20 p3155 N84-30036
MATE standardization
[AD-P003567] 21 p3340 N84-31192

AUTOMATIC WEATHER STATIONS
Establishment and discontinuance criteria for Automated Weather Observing Systems (AWOS)
[AD-A135674] 09 p1349 N84-18811
A study of antarctic remote site automatic weather station data (1980-81) from the ross ice shelf area
[AD-A143738] 23 p3802 N84-34105

AUTOMATION
Description of an automatic seismic measurements package: Analysis and design goals
[AD-A132067] 03 p0407 N84-12666
General Purpose Electronic Test Equipment (GPETE) acquisition considerations for automated calibration
[AD-A133865] 05 p0718 N84-14709
Automating the testing of software 06 p0774 N84-15074
Advanced automation program. Program master plan
[DOT/FAA/AP-83/3] 06 p0785 N84-15139
Composite laminate weight optimization on the HX-20
[AD-A133490] 06 p0799 N84-15207
Analog fault diagnosis of large-scale electronic circuits
[AD-A133491] 06 p0830 N84-15400
A distributed control system for the CMU Rover
[AD-A133201] 06 p0893 N84-15802
A modular twin bus microprocesor system for laboratory automation
[AD-A133372] 06 p0896 N84-15815
A program for developing automated scientific-information processing in maritime economy
[AD-A135518] 08 p1240 N84-18107
Operational and functional description of the AERA packages
[AD-A138852] 10 p1426 N84-19326
Data distribution in the NBS Automated Manufacturing Research Facility 12 p1891 N84-22315
Office automation in the acquisition environment
[AD-P002747] 13 p2049 N84-23294
USSR report: Machine tools and metalworking equipment
[JPRS-UMM-84-008] 14 p2155 N84-23913
Industry official on progress in Soviet robotics program 14 p2155 N84-23915
Automated design of combinational networks under specific constraints: A theorem proving approach
[AD-P002377] 14 p2195 N84-24168
Automating the transformational development of software, volume 1
[AD-A139860] 15 p2392 N84-25355
A model of human problem solving in dynamic environments
[AD-A140862] 17 p2748 N84-27446
Automatic shock calibration of accelerometers
[AD-A141005] 18 p2844 N84-28061
East Europe Report: Science and technology. Czechoslovakia: Computer technology examined
[JPRS-ESA-84-022] 18 p2918 N84-28499
Selections on computer technology in CSSR 18 p2918 N84-28500
Evaluation of automated configuration management tools in ADA programming support environments
[AD-A140982] 18 p2944 N84-28666
Strategies for analytical applications and implementation of a multi-purpose laboratory robot
[DE84-012379] 20 p3198 N84-30314
Automation of a drop forge at the Centre Techniques des Industries Mecaniques (CETIM) forge section
[CETIM-1.3K.27.3] 21 p3376 N84-31423
I/O channel interface
[NBS-FIPS-PUB-60-2] 22 p3637 N84-33057
Predictions of satisfaction with automated library circulation systems 22 p3670 N84-33259
A study of the extent of automation in small college libraries and relationships of attitudes of library directors toward it 22 p3670 N84-33260
Automated helium gas metering system
[DE84-015083] 23 p3751 N84-33779
Industrial optodigital inspection system 24 p3942 N84-34955
Improving automated statistical data processing 24 p3942 N84-34956

AUTOMOBILE ACCIDENTS
Staged collision and damage data report for accident reconstruction of fourteen (14) test vehicles (1980 - 1982 model year), volume 1
[PB83-226502] 01 p0092 N84-10598

AUTOMOBILE ENGINES
EPA evaluation of the Atomized Vapor Injector device under Section 511 of the Motor Vehicle Information and Cost Savings Act
[PB83-214684] 01 p0163 N84-11072
EPA evaluation of the Malpassi Filter King device under Section 511 of the Motor Vehicle Information and Cost Savings Act
[PB83-214700] 01 p0163 N84-11073
Experimental hydrogen-fueled automotive engine design data-base project, volume 1
[DE83-017023] 02 p0204 N84-11331
Experimental hydrogen-fueled automotive engine design data-base project. Volume 2: Main technical report
[DE83-017025] 02 p0204 N84-11332
Controlled combustion engine evaluation
[DE83-011245] 03 p0384 N84-12499
Optimum engine for methanol utilization
[PB83-239459] 03 p0385 N84-12507
Flywheel rotor and containment technology development, FY83
[DE83-017615] 04 p0545 N84-13589
Advanced Gas Turbine (AGT) technology development
[NASA-CR-168235] 06 p0852 N84-15554
Automotive Stirling engine development program
[NASA-CR-168205] 08 p1242 N84-18117
Real-time simulation of an automotive gas turbine using the hybrid computer
[NASA-TM-83593] 16 p2569 N84-26484
Experimental hydrogen-fueled automotive engine design data-base project. Volume 3: Main technical report (appendices)
[DE83-017362] 18 p2848 N84-28086
Advanced Gas Turbine (AGT) Technology Project
[NASA-CR-174629] 18 p2849 N84-28089
Automotive Stirling engine development program
[NASA-CR-174622] 21 p3521 N84-32305
Automotive Stirling Engine Development Program. RESD summary report
[NASA-CR-174674] 22 p3677 N84-33307

AUTOMOBILE FUELS
Effect of low-proof fuel alcohol on crankcase oil dilution in an Otto-cycle engine
[DE83-016425] 01 p0091 N84-10594
Ethanol fuels reference guide: A decision-makers guide to ethanol fuels
[DE83-014401] 02 p0204 N84-11329
Experimental hydrogen-fueled automotive engine design data-base project, volume 1
[DE83-017023] 02 p0204 N84-11331
Experimental hydrogen-fueled automotive engine design data-base project. Volume 2: Main technical report
[DE83-017025] 02 p0204 N84-11332
Low mileage catalyst evaluation with a methanol-fueled Rabbit
[PB83-241620] 02 p0230 N84-11506
Evaluation of unthrottled combustion system options for light duty applications with future syncrude derived fuels
[DE83-017047] 03 p0358 N84-12327
Energy-efficient automobiles for the future
[DE84-000600] 04 p0617 N84-14073
Gasogen for automobile use
[DE84-000712] 06 p0813 N84-15291
The lead file: Car fuel additives
[INFORM-NOTE-29] 17 p2725 N84-27341
Evaluation of dissociated and steam-reformed methanol as automotive engine fuels
[NASA-CR-168242] 18 p2821 N84-27909
Anti-tampering and anti-misfueling programs to reduce in-use emissions from motor vehicles
[PB84-185222] 20 p3238 N84-30559

AUTOMOBILES
NT ELECTRIC AUTOMOBILES
Development of large area Multi-coloured Multifunctional Displays (MFA) in liquid crystal technology
[BMFT-FB-T-83-098] 02 p0300 N84-11970
A study of the relationship between exhaust emissions and fuel economy
[PB83-235564] 03 p0385 N84-12506
Energy use and range of electric vehicles in selected US Department of Energy sites
[DE83-015719] 03 p0461 N84-13034
The effects of relaxing automobile emission standards: A generic analysis and an urban case study
[DE84-000193] 04 p0560 N84-13693
Energy-efficient automobiles for the future
[DE84-000600] 04 p0617 N84-14073

West Europe report: Science and technology, no. 189
[JPRS-84936] 05 p0634 N84-14169
Noise reduction of automobile tires
[MBB-BB-539-83-OE] 05 p0667 N84-14517
Downsizing assessment of automotive Stirling engines
[NASA-TM-83468] 05 p0761 N84-14989
1981 CRC octane number requirement survey
[AD-A133369] 06 p0812 N84-15288
1981 CRC (Coordinating Research Council) diesel fuel low-temperature operability field test
[AD-A133543] 06 p0813 N84-15289
Recycling the kinetic energy of an automobile
[DE83-004201] 06 p0851 N84-15551
Optimization of production conditions and material characteristics of tubular stabilizer bars — vehicle stabilizer bars
[BMFT-FB-T-83-177] 07 p0986 N84-16385
On the significance of unsteady surface pressures for aerodynamically induced interior noise of automobiles
[DFVLR-FB-83-26] 10 p1423 N84-19303
Use of phase transformations in the design of alloy steel
[DE84-003050] 10 p1462 N84-19550
Time to Line Crossing (TLC): A new method to describe driving performance
[IZF-1983-10] 12 p1867 N84-22165
Open and closed loop steering in a lane change manouver
[IZF-1983-22] 12 p1867 N84-22167
Optimal control model applications and field measurements with respect to car driving
[IZF-1983-18] 12 p1892 N84-22324
The CARFAX road traffic information system
[BBC-RD-1984/1] 13 p1975 N84-22818
Impact assessment of reducing gasoline volatility
[PB84-152024] 14 p2133 N84-23781
West Europe report: Science and technology
[JPRS-WST-84-001] 14 p2135 N84-23799
Saab claims world's most modern engine-assembly plant 14 p2135 N84-23800
Volvo LCP: New materials, production methods 14 p2136 N84-23801
Electric and Hybrid Vehicles Program. Report to Congress for fiscal year 1983
[DE84-007792] 14 p2249 N84-24511
Composite materials in automobile weight reduction 15 p2431 N84-25599
West Europe report: Science and technology
[JPRS-WST-84-018] 17 p2640 N84-26886
New material, process spins off from Volvo LCP 2000 program 17 p2640 N84-26891
Ergonomic aspects of road vehicles. Part 1: A literature survey of some aspects
[IZF-1983-15] 18 p2915 N84-28487
Simulation of vehicle aerodynamics by means of a general-purpose computer program
[CFD/84/4] 19 p2960 N84-28759
Orientation of ergonomic aspects of the Universal Dynamometer Device — vehicle testing
[IZF-1983-25] 20 p3199 N84-30315
Anti-tampering and anti-misfueling programs to reduce in-use emissions from motor vehicles
[PB84-185222] 20 p3238 N84-30559
Cost effectiveness of converting to alternative motor vehicle fuels. A technical assistance study for the city of Longview
[DE84-010479] 21 p3375 N84-31415
Producer gas: Another fuel for motor transport
[DE84-901066] 21 p3375 N84-31416
Activated aluminum alloy for generating hydrogen fuel 23 p3705 N84-33490
Study of the process of destruction of fibroconcrete slabs under a static load simulating the action of a motor vehicle's wheel on a bridge
[ISSN-0206-5658] 23 p3726 N84-33612
Development of a general model of the car drivers eye movement sequences and effects of subject and environmental variables
[AD-A144180] 24 p3936 N84-34915
Study of annoyance due to urban automobile traffic. Annex 5: Sociological study
[NASA-TM-77515] 24 p3968 N84-35124

AUTOMORPHISMS
On the uniqueness of a regular thin near octagon on 288 vertices (or the semibiplane belonging to the Mathieu group M12)
[MC-ZW-196/83] 21 p3476 N84-32029
Analytic automorphisms of a bounded Reinhardt domain in a complex Banach space with base 22 p3636 N84-33044

AUTONOMIC NERVOUS SYSTEM
NT SYMPATHETIC NERVOUS SYSTEM
Autonomic influences on peripheral circulatory and thermal responses to cold
[AD-A134444] 08 p1201 N84-17831
Spatiotemporal structure of quanta of industrial work and its physiological basis 18 p2897 N84-28379
Eye accommodation, personality, and autonomic balance
[AD-A141499] 19 p3065 N84-29446

AUTONOMY
Autonomous navigation of USAF spacecraft
[AD-A139173] 14 p2114 N84-23669

AUTOPILOTS
U AUTOMATIC PILOTS

AUTORADIOGRAPHY
Imaging of fast-neutron sources using solid-state track-recorder pinhole radiography
[DE84-001466] 05 p0685 N84-14504

AUTOREGRESSIVE PROCESSES
Autoregressive models for use in scene segmentation 03 p0393 N84-12561
A user's guide to ARSPIC: The univariate time series analysis program for autoregressive spectral information quantile identification
[AD-A132217] 04 p0581 N84-13831
Time series long memory identification and quantile spectral analysis
[AD-A132240] 04 p0590 N84-13900
Application of the maximum entropy method to the spectral analysis of geophysics data. Results of some preliminary tests on theoretical series
[IFSI-82-1] 05 p0705 N84-14626
Reliability of electrical machines and drives, part 2
[BMFT-FB-T-83-164-PT-2] 07 p0999 N84-16481
Asymptotic properties of extended Yule-Walker estimates of the AR parameters of an ARMA (autoregressive moving-average)
[AD-A134981] 08 p1221 N84-17970
On the maximum-entropy/autoregressive modeling of time series
[NASA-TM-86057] 09 p1372 N84-18961
The autocorrelation function of seasonal ARMA models
[AD-A137929] 11 p1715 N84-21182
A multivariate autoregressive display monitoring model
[NLR-MP-83033-U] 15 p2384 N84-25296
Algorithms of adaptive Markov filtration of noisy speech signals 17 p2630 N84-26822
An autoregressive process for Beta random variables
[AD-A140848] 17 p2759 N84-27514
A generalization of autocorrelation and partial autocorrelation functions useful for identification of ARMA(p,q) processes
[AD-A140880] 17 p2759 N84-27516
A note on the derivation of theoretical autocovariances for ARIMA models
[AD-A140829] 17 p2760 N84-27527
Use of simultaneous autoregressive models in balanced incomplete block and lattice square designs
[AD-A141661] 19 p3086 N84-29590
On the estimation of the 1st-order autoregressive parameter
[AD-A144284] 24 p3950 N84-35014

AUTOROTATION
New, high performance rotating parachute — reentry vehicle recovery
[DE84-002382] 06 p0783 N84-15129
Numerical aerodynamic analysis of a free falling autorotating plate
[AD-A138900] 14 p2102 N84-23612
Numerical simulation of autorotation 20 p3168 N84-30118

AUXILIARY EQUIPMENT (COMPUTERS)
NT PLOTTERS
NT PRINTERS (DATA PROCESSING)
Numeric keyboard layout and computer menu selection
[BAE-BT-11969] 13 p2023 N84-23116

AUXILIARY POWER SOURCES
NT SNAP 8
NT SPACE POWER REACTORS
NT SPACE POWER UNIT REACTORS
Aircraft Electric Secondary Power
[NASA-CP-2282] 01 p0009 N84-10055
Secondary electric power generation with minimum engine bleed 01 p0010 N84-10059
Primary electric power generation systems for advanced-technology engines 01 p0010 N84-10060
Installation of electric generators on turbine engines 01 p0010 N84-10061
Application of advanced materials to rotating machines 01 p0010 N84-10063
New developments in power semiconductors 01 p0011 N84-10065
Lightweight, high-frequency transformers 01 p0011 N84-10066
Cycloconverter on the all-electric airplane 01 p0011 N84-10069
Preliminary operating assessment advanced Heat Recovery Incinerator (HRI). Site One: O'Connor Combustor Corporation
[AD-A131254] 01 p0103 N84-10667
Auxiliary Power Systems
[AGARD-CP-352] 03 p0333 N84-12168
Auxiliary power requirements: Their role in aircraft performance 03 p0334 N84-12169
Auxiliary power systems with gas turbines 03 p0334 N84-12170
Secondary power systems for fighter aircraft experiences today and requirements for a next generation 03 p0334 N84-12171
Small auxiliary power unit design constraints 03 p0334 N84-12172
APU in commercial airline operation 03 p0334 N84-12173
Auxiliary power units for wide-body aircraft 03 p0334 N84-12174
Secondary power supplies for a small single engine combat aircraft 03 p0334 N84-12175
Hydraulic generation of auxiliary power for the Mirage 2000 aircraft 03 p0335 N84-12176
Optimization of engine power offtake by secondary power system design 03 p0335 N84-12177
Hot gas APU starter for advanced aircraft applications 03 p0335 N84-12178
Cost efficient on board power for airline operation 03 p0335 N84-12180
APU operational efficiency 03 p0335 N84-12181
Ground and inflight operational effects of APU's 03 p0335 N84-12182
All-electric accessory drive systems: Implications on engine design and performance 03 p0336 N84-12184
The 400 Hz generators evolution, effects on installation arrangements 03 p0336 N84-12186
Orbiting wire as a dynamo: Auxiliary power possibilities for space platforms
[IFSI-83-3] 03 p0405 N84-12653
Ground and inflight operational effects of APU's
[VFW-30/83-O] 16 p2562 N84-26438
Space Shuttle Orbiter improved auxiliary power unit 20 p3144 N84-29965
Ground test challenges in the development of the Space Shuttle orbiter auxiliary power unit 24 p3862 N84-34478

AUXILIARY PROPULSION
Study of auxiliary propulsion requirements for large space systems, volume 2
[NASA-CR-168193-VOL-2] 04 p0490 N84-13218
Radiative resistojet performance characterization tests
[NASA-CR-174763] 23 p3701 N84-33462
Ground test challenges in the development of the Space Shuttle orbiter auxiliary power unit 24 p3862 N84-34478

AV-8A AIRCRAFT
U HARRIER AIRCRAFT

AVAILABILITY
Bulk availability
[AD-A129863] 01 p0129 N84-10845
A Q-GERT analysis of the effect of improved automatic testing on F-16 aircraft availability
[AD-A134280] 07 p0945 N84-16128
Wind energy systems program summary, fiscal years 1981 and 1982
[DE84-002958] 11 p1673 N84-20919
Sunlight probability data for select cities in the US
[DE84-000006] 20 p3247 N84-30605
Wind energy: a brief assessment
[DE84-012208] 21 p3434 N84-31788

AVALANCHE DIODES
A 20-GHz IMPATT transmitter
[NASA-CR-168076] 02 p0212 N84-11385
A 20-GHz IMPATT transmitter, summary 02 p0212 N84-11386
A 20-GHz IMPATT diode development
[S-3057] 02 p0212 N84-11387
Silicon millimeter wave devices by MBE (Molecular Beam Epitaxy)
[AD-A134419] 07 p1080 N84-17025
Optimum design of millimeter-wave impatt diode oscillators
[AD-A135335] 08 p1151 N84-17489
A nonlinear eigenvalue problem modelling the avalanche effect in semiconductor diodes
[AD-A136368] 09 p1394 N84-19106
High efficiency IMPATT diodes for 60 GHz intersatellite link applications
[NASA-TM-83584] 10 p1485 N84-19708
Microwave semiconductor equipment produced in Poland
[AD-A137598] 11 p1646 N84-20762
Investigation of noise in silicon avalanche photodiodes
[FI-14-TBR-11] 14 p2244 N84-24474

V-band IMPATT transmitter
[NASA-CR-175249] 18 p2832 N84-27976
Lossless symmetric TEM line IMPATT diode power combiners
[AD-A142599] 20 p3178 N84-30187
Utilization of nonlinear properties of IMPATT-diodes in microwave devices (survey) 22 p3569 N84-32603
The 20 GHz solid state transmitter design, impatt diode development and reliability assessment
[NASA-CR-174716] 23 p3741 N84-33715

AVALANCHES
NT ELECTRON AVALANCHE
Drainage evolution in the debris avalanche deposits near Mount Saint Helens, Washington 13 p2083 N84-23496
San Juan Mountains avalanche study: Evaluation and prediction of avalanche hazard, meteorological and avalanche observations
[PB84-202704] 21 p3432 N84-31778
Data Report. Low Temperature Science. Series A: Physical Sciences
[ISSN-0385-3683] 23 p3762 N84-33842
Snow cover observations at Avalanche Research Station, Toikanbetsu, northern Hokkaido, 15 (1982-1983 winter) 23 p3762 N84-33844

AVERAGE
NT MEAN
Averaging procedures of multiphase conservation equations
[DE83-014698] 04 p0592 N84-13908
Formulae for configuration averages of products of 1-body and 2-body operators in many-fermion spaces
[DE84-002634] 08 p1221 N84-17971
The autocorrelation function of seasonal ARMA models
[AD-A137929] 11 p1715 N84-21182
Lagged average forecasting, some operational considerations 12 p1854 N84-22075
A generalization of autocorrelation and partial autocorrelation functions useful for identification of ARMA(p,q) processes
[AD-A140880] 17 p2759 N84-27516
A note on the derivation of theoretical autocovariances for ARMA models
[AD-A140829] 17 p2760 N84-27527
A numerical averaging procedure for the Galilean Satellites system 19 p3118 N84-29816

AVIATION
U AERONAUTICS

AVIATORS
U AIRCRAFT PILOTS

AVIONICS
AGARD Bulletin, technical programme, 1984
[AGARD-BUL-83/2] 01 p0002 N84-10010
Aeronautics Research and Technology Program and specific objectives, fiscal year 1982
[NASA-TM-85474] 01 p0002 N84-10011
Flight evaluation results from the general-aviation advanced avionics system program
[NASA-TM-84397] 01 p0007 N84-10042
A definition of STS accommodations for attached payloads
[NASA-CR-172223] 01 p0018 N84-10114
A simulator evaluation of an automatic terminal approach system 03 p0312 N84-12037
NASA Demonstration Advanced Avionics System (DAAS) 03 p0314 N84-12048
An overview of the demonstration advanced avionics system guest pilot evaluation conducted at Ames Research Center 03 p0314 N84-12049
AFWAL FY82 technical accomplishments
[AD-A131839] 03 p0315 N84-12054
Some aspects of flight trajectory control in future avionic systems for combat aircraft 03 p0316 N84-12066
Influence of the airframe on the performance of antennas for avionics 03 p0364 N84-12372
From launching carrier rockets towards the Pacific on the accomplishments and problems of electronic technologies in our country
[AD-A131088] 03 p0366 N84-12380
Design implications from AFTI/F-16 flight test
[NASA-TM-86026] 05 p0632 N84-14157
Advanced Concepts for Avionics/Weapon System Design, Development and Integration
[AGARD-CP-343] 06 p0768 N84-15034
System architecture: Key to future avionics capabilities 06 p0768 N84-15035
Tactical requirements impact on avionics/weapon system design 06 p0768 N84-15036
Operational readiness and its impact on fighter avionics system design 06 p0768 N84-15037
Avionics concept evaluation at the force level 06 p0769 N84-15038
Towards a modularity of software conceived for the requirement of the user 06 p0769 N84-15040
Increasing significance of electromagnetic effects in modern aircraft development 06 p0769 N84-15041
Avionics/crew station integration 06 p0769 N84-15042
Combined visualization 06 p0769 N84-15043
Guidelines and criteria for the functional integration of avionic systems with crew members in command 06 p0770 N84-15044
Towards the functional partitioning of highly integrated, fault tolerant avionics signal processors 06 p0770 N84-15047
Advanced F/A-18 avionics 06 p0770 N84-15048
DEF STAN 00-18: A family of compatible digital interface standards 06 p0771 N84-15049
Techniques for interbus communication in a multibus avionic system 06 p0771 N84-15050
Network communications for a distributed avionics system 06 p0771 N84-15052
Avionics fault tree analyzer 06 p0771 N84-15053
First level integrated maintenance in weapons systems 06 p0771 N84-15054
Computer graphics techniques for aircraft EMC analysis and design 06 p0771 N84-15055
CASCADE: A design environment for future avionic systems 06 p0772 N84-15057
A practical approach to the design of a new avionic system 06 p0772 N84-15058
Integration of ICNIA into advanced high performance fighter aircraft 06 p0772 N84-15059
Critical factors and operational research in tactical fighter avionic system development 06 p0773 N84-15062
AFTI/F-16: An integrated system approach to combat automation 06 p0773 N84-15063
CADAS: A computer aided design tool for avionic systems 06 p0773 N84-15065
Design and verification of electromagnetic compatibility in airborne weapons systems 06 p0773 N84-15066
Design, development and flight test of a demonstration advanced avionics system 06 p0773 N84-15067
Concepts for avionic and weapon integration facilities 06 p0774 N84-15070
Hardware-in-the-loop simulation techniques used in the development of the Sea Harrier avionic system 06 p0774 N84-15071
Simulation requirements to support the development of a fault tolerant avionic system 06 p0774 N84-15072
Software testing of safety critical systems 06 p0774 N84-15073
A dynamic approach to military avionics systems testing 06 p0774 N84-15075
The man-machine interface in new generation commercial aircraft 06 p0777 N84-15096
Validation of digital systems in avionics and flight control applications handbook, volume 1
[AD-A133222] 06 p0788 N84-15150
AFTI/F-16 flight test results and lessons
[NASA-TM-84920] 06 p0791 N84-15159
Sensory redundancy management: The development of a design methodology for determining threshold values through a statistical analysis of sensor output data
[NASA-CR-173270] 07 p1059 N84-16859
Control strategies for complex systems for use in aerospace avionics
[AD-A135072] 08 p1104 N84-17179
Human factors issues associated with the use of speech technology in the cockpit
[NASA-CR-166548] 08 p1143 N84-17433
Automation, supervisory control and workload in flight management
[NASA-CR-166474] 08 p1202 N84-17838
Automated data base implementation requirements for the avionics planning baseline, Army
[AD-A135259] 08 p1240 N84-18103
Logistics engineering design techniques for fault-tolerant avionics systems
[AD-A137456] 10 p1430 N84-19349
Interface control document for AN/ARC-186 VHF-AM/FM radio
[AD-A136939] 10 p1481 N84-19679
Interface control document for RT-XXXX/ARC-164 UHF-AM radio
[AD-A136970] 10 p1481 N84-19681
An automated stall-speed warning system
[NASA-TM-84917] 11 p1607 N84-20520
Aircraft control position indicator
[NASA-CASE-LAR-12984-1] 11 p1607 N84-20522
Evaluation of automatic test equipment for use with the Army helicopter improvement program
[AD-A137647] 11 p1607 N84-20523
Nonlinear systems approach to control system design 11 p1618 N84-20585
AFTI/F-16 digital flight control system experience 11 p1619 N84-20592
Research opportunities for future commercial transports 11 p1619 N84-20594
An RAF viewpoint on aircraft structural integrity 12 p1764 N84-21503
General Purpose Bus Interface Unit (GPBIU) system test software design
[AD-A138005] 12 p1770 N84-21543
A study of optimal computer network architecture for digital avionics systems
[AD-A138151] 12 p1770 N84-21545
Multibus Avionic Architecture Design Study (MAADS)
[AD-A138226] 12 p1770 N84-21548
A dual digital to video converter for avionics symbology and messages
[AD-A138383] 12 p1771 N84-21547
Exploration of dose-response techniques with some applications to a simulation problem
[AD-A138029] 12 p1880 N84-22252
Integrated testing and maintenance technologies
[AD-A138587] 13 p1925 N84-22528
Technology review of flight crucial flight controls
[NASA-CR-172332] 13 p1934 N84-22583
The avionics integrity program (AVIP)
[AD-P002817] 13 p2060 N84-23382
General aviation TCAS (Traffic Alert and Collision Avoidance System) avionics (GATCAS)
[AD-A139145] 14 p2104 N84-23618
AGARD bulletin: Meetings, publications, membership
[AGARD-BUL-84/1] 14 p2252 N84-24527
General aviation activity and avionics survey
[AD-A139936] 15 p2254 N84-24536
Advances in Strapdown Inertial Systems
[AGARD-LS-133] 16 p2446 N84-25691
Modular strapdown guidance unit with embedded microprocessors 16 p2447 N84-25697
Initial alignment and augmentation of the ARINC 705 strapdown AHRS LTR-81 16 p2447 N84-25699
Failure Identification Module (FIM) for digital control systems — avionics 17 p2586 N84-26573
Airline experience with avionic software development for aircraft integrated data systems 17 p2587 N84-26581
Cost analysis of Mode S data link avionics system for the low-performance general aviation aircraft community
[DOT/FAA/PM-83/38] 18 p2795 N84-27735
B-1B Avionics/Automatic test equipment: Maintenance queueing analysis
[AD-A141175] 18 p2795 N84-27736
Integrated Application of Active Controls (IAAC) technology to an advanced subsonic transport project: Current and advanced act control system definition study
[NASA-CR-3545] 18 p2796 N84-27744
Development and flight evaluation of an augmented stability active controls concept with a small horizontal tail
[NASA-CR-165951] 19 p2967 N84-28805
Distributed avionic computers
[AD-A142140] 19 p3073 N84-29494
Improvements to software maintenance methods in real time embedded aviation flight systems
[AD-A141949] 20 p3269 N84-30742
Software modifications to the Demonstration Advanced Avionics Systems (DAAS)
[NASA-TM-85942] 21 p3327 N84-31105
Proceedings papers of the 2nd AFSC (Air Force Systems Command) Avionics Standardization Conference, volume 1
[AD-A142776] 21 p3329 N84-31121
Management overview of the benefits of efficient JOVIAL J73/1750A software tools
[AD-P003519] 21 p3329 N84-31123
JOVIAL language control procedures with a view toward Ada (Trademark)
[AD-P003522] 21 p3330 N84-31126
The Multiple System OFP Support (MSOS) system, a Pre-PMRT capability for evaluating tactical software
[AD-P003524] 21 p3330 N84-31128
Consideration of MIL-STD-1760, aircraft/store electrical interface standard on stores management system architectures
[AD-P003529] 21 p3331 N84-31133
Aircraft multiplexing system architecture and stores compatibility
[AD-P003530] 21 p3331 N84-31134
MIL-STD-1553B Marconi LSI chip set in a remote terminal application
[AD-P003538] 21 p3332 N84-31142
A common 1553B I/O channel for the F-16
[AD-P003546] 21 p3333 N84-31150
MIL-STD-1750A microprocessor chip set development
[AD-P003548] 21 p3334 N84-31152
Proceedings papers of the 2nd AFSC (Air Force Systems Command) Avionics Standardization Conference, volume 2
[AD-A142777] 21 p3335 N84-31165

Standards and integrated avionic digital system architecture
[AD-P003561] 21 p3336 N84-31166
Achieving the benefits of modular avionics design
[AD-P003562] 21 p3336 N84-31167
Navy packaging standardization thrusts
[AD-P003564] 21 p3336 N84-31169
An introduction to the avionics integrity program
[AD-P003565] 21 p3336 N84-31170
Elements for successful implementation of computing standards
[AD-P003566] 21 p3336 N84-31171
The application of standards to the TDY-750 (TIGERSHARK) mission computer
[AD-P003567] 21 p3337 N84-31172
PAVE PILLAR: A maturation process for an advanced avionics architecture
[AD-P003568] 21 p3337 N84-31173
Advanced cockpit-systems integration
[AD-P003569] 21 p3337 N84-31174
Defense industry attitudes about AF interface standards report of an electronics industries association survey
[AD-P003570] 21 p3337 N84-31175
Digital avionics design for validation
[AD-P003571] 21 p3337 N84-31176
Concepts for LHX avionics
[AD-P003575] 21 p3338 N84-31180
Options and opportunities for standards: A NATO/AGARD viewpoint
[AD-P003577] 21 p3338 N84-31182
Proposed MIL-STD for avionics installation interfaces
[AD-P003578] 21 p3338 N84-31183
Integrated CNI (Communication Navigation and Identification) avionics and future standardization
[AD-P003580] 21 p3339 N84-31185
Standard avionics software: The future strategy for cost-effective avionics
[AD-P003582] 21 p3339 N84-31187
Quantum leap in avionics
[AD-P003584] 21 p3340 N84-31189
Proceedings of the 2nd AFSC (Air Force Systems Command) Avionics Standardization Conference. Volume 3: Embedded computer resources governing documents
[AD-A142778] 21 p3342 N84-31201
Proceedings of the 2nd AFSC (Air Force Systems Command) Avionics Standardization Conference. Volume 4: Tutorial: MIL-STD-1553 multiplex data bus
[AD-A142779] 21 p3342 N84-31202
Proceedings of the 2nd AFSC (Air Force Systems Command) Avionics Standardization Conference. Volume 5: Tutorial: MIL-STD-1589 JOVIAL (J-73) high order language
[AD-A142780] 21 p3342 N84-31203
Proceedings of the 2nd AFSC (Air Force Systems Command) Avionics Standardization Conference. Volume 6: Tutorial: MIL-STD-1679 weapon system software development
[AD-A142781] 21 p3342 N84-31204
Proceedings of the 2nd AFSC (Air Force Systems Command) Avionics Standardization Conference. Volume 7: Tutorial: MIL-STD-1750, 16 bit instruction set architecture
[AD-A142782] 21 p3342 N84-31205
Proceedings of the 2nd AFSC (Air Force Systems Command) Avionics Standardization Conference. Volume 8: Tutorial: MIL-STD-1815 Ada high order language
[AD-A142783] 21 p3342 N84-31206
Proceedings of the 2nd AFSC (Air Force Systems Command) Avionics Standardization Conference. Volume 9: Tutorial: Navy case study implementation of military standards
[AD-A142784] 21 p3342 N84-31207
On-line task analyses in maintenance simulation
[AD-P003452] 21 p3509 N84-32229
A flight-test and simulation evaluation of the longitudinal final approach and landing performance of an automatic system for a light wing loading STOL aircraft equipped with wing spoilers
[NASA-TM-85873] 22 p3537 N84-32393
Definition, analysis and development of an optical data distribution network for integrated avionics and control systems. Part 2: Component development and system integration
[NASA-CR-172429] 22 p3657 N84-33181
A dual digital to video converter and color video inserter for avionics symbology and messages
[AD-A143772] 23 p3693 N84-33408
Direct lift command blending
[AD-D011178] 23 p3696 N84-33420
Flight Test Techniques
[AGARD-CP-373] 24 p3847 N84-34396
Simulation applied to the avionics system testing in the F/A-18 24 p3849 N84-34409
F-16 and A-10 diffraction optics Head Up Display (HUD) flight test evaluation 24 p3849 N84-34411

AVOIDANCE
NT BEACON COLLISION AVOIDANCE SYSTEM
NT COLLISION AVOIDANCE
Effects of ionizing radiation and restraint stress on activity, avoidance conditioning, and stomach ulcers in albino rats
[AD-A141515] 19 p2984 N84-28911
Rat behavior in selection of negative stimulus: Pain or exposure to electromagnetic field 20 p3255 N84-30657

AWACS AIRCRAFT
NT E-3A AIRCRAFT

AWARDS
AGARD Highlights, September 1982
[AGARD-HIGHLIGHTS-82/2] 12 p1763 N84-21496
Landmarks of progress 13 p2065 N84-23397

AXAF
U X RAY ASTROPHYSICS FACILITY

AXES (COORDINATES)
U COORDINATES

AXES (REFERENCE LINES)
NT AXES OF ROTATION
NT EARTH AXIS
Multi-directional gaging probe
[DE83-012855] 01 p0085 N84-10551

AXES OF ROTATION
NT EARTH AXIS
On a viscometric flow of a simple fluid
[AD-A132852] 05 p0681 N84-14476
Design report: Two axis rotational rate measurement system using rate gyros
[NIAST-83/06] 07 p1068 N84-16938
Frequency and mode shape calculations for vertical axis wind turbines using reduction techniques and complex eigensolvers
[DE84-003316] 08 p1172 N84-17633
Comparison of finite element predictions and experimental data for the forced response of the DOE 100 kW vertical axis wind turbine
[DE84-007977] 14 p2159 N84-23932
Simulation of winds as seen by a rotating vertical axis wind turbine blade
[DE84-009033] 14 p2180 N84-24056
On the structure of rotational instabilities in non-Newtonian fluids 15 p2315 N84-24892
Centrifugal-reciprocating compressor
[NASA-CASE-NPO-14597-2] 18 p2848 N84-28061

AXIAL COMPRESSION LOADS
An analysis of the buckling of truncated or complete spherical shells under axial compressive loads 07 p0985 N84-16379
Analysis of a high-strength concrete model under biaxial compression
[AD-A137050] 10 p1518 N84-19935
Collapse of long stiffened circular cylinders under combined axial bending and pressure loading 23 p3759 N84-33825
Stability analysis of elastic-plastic rectangular plate with opening 24 p3958 N84-35062

AXIAL COMPRESSORS
U TURBOCOMPRESSORS

AXIAL FLOW
Aerodynamics of advanced axial-flow turbomachinery
[AD-A131360] 01 p0012 N84-10073
Transient heat flow across uni-directional fibers in composites
[AD-A131052] 01 p0032 N84-10199
On the structure of the turbulent vortex 03 p0321 N84-12102
Remarks on the axial flow taper in a countercurrent gas centrifuge
[DE84-002931] 07 p1003 N84-16506
An experimental study of thrust augmenting ejectors
[AD-A136929] 10 p1492 N84-19757
Effect of oscillations upon velocity distributions in simulated solid propellant flow environments 13 p1945 N84-22646
Performance of a high-work low aspect ration turbine tested with a realistic inlet radial temperature profile
[NASA-TM-83655] 15 p2262 N84-24589
The boundary layer on compressor cascade blades
[NASA-CR-173514] 15 p2332 N84-25001
Cold-air performance of compressor-drive turbine of department of energy upgraded automobile gas turbine engine. 3: Performance of redesigned turbine
[NASA-TM-83627] 16 p2436 N84-25644
Velocity and temperature characteristics of two-stream, coplanar jet exhaust plumes
[NASA-TM-83730] 19 p2965 N84-28790
Stator blade row geometry modification influence on two-stage, axial-flow compressor aerodynamic performance
[AD-A141793] 19 p2966 N84-28797
Aerodynamic design and performance of a two-stage, axial-flow compressor (Baseline)
[AD-A141796] 19 p2966 N84-28798
Non-inertial flow of dilute polymer solutions in a sudden contraction
[BLL-WH-558-(9091.9F)] 20 p3183 N84-30221
Blade endwall flows in an axial flow compressor stage 21 p3343 N84-31209
Pin rooted blade biaxial air seal
[AD-D011086] 22 p3537 N84-32391

AXIAL FLOW COMPRESSORS
U TURBOCOMPRESSORS

AXIAL FLOW PUMPS
NT TURBINE PUMPS
An investigation of tip-wall vortex cavitation in an axial-flow pump
[AD-A134357] 07 p1002 N84-16496

AXIAL FLOW TURBINES
Turbine aerodynamic design using through-flow theory. Meridional through-flow calculation 06 p0840 N84-15474
A review of current research activity on the aerodynamics of axial flow turbines 06 p0841 N84-15480
The development of unsteady boundary layers on the rotor of an axial-flow turbine 07 p0956 N84-16197
Secondary flows and losses in a turbine cascade 07 p0956 N84-16203
The generation of higher levels of turbulence in the test section of the high speed cascade wind tunnel at Brunswick for simulation of turbomachinery conditions
[ESA-TT-815] 16 p2440 N84-25654
Secondary flows and endwall boundary layers in axial turbomachines --- conferences
[VKI-LS-1984-05] 19 p3022 N84-29162
Secondary loss prediction methods --- turbines 19 p3022 N84-29164
Experimental research on secondary flows in annular turbine cascades at the Von Karman Institute 19 p3022 N84-29165
Calculation of three dimensional viscous flows in annular cascades using parabolized Navier-Stokes equations 19 p3023 N84-29168
Low aspect ratio turbine design at Rolls-Royce 19 p3023 N84-29169
Calculation of the 3-D viscous flow at the endwall leading edge region of an axial annular turbine cascade
[NASA-CR-168275] 21 p3325 N84-31095
Analytical and experimental investigation of stator endwall countouring in a small axial-flow turbine
[NASA-TP-2309] 22 p3536 N84-32388

AXIAL LOADS
NT AXIAL COMPRESSION LOADS
Evaluation of WES one-dimensional dynamic soil testing procedures
[AD-A130925] 01 p0057 N84-10371
Modeling of the transmissibility through rolling-element bearings under radial and moment loads 01 p0089 N84-10580
Inelastic stability of tapered, singly-symmetric beam-columns 02 p0230 N84-11509
Seismic behavior of active beam links in eccentrically braced frames
[PB84-119676] 09 p1297 N84-18480
Numerical determination of the effects of boundary conditions on the instability of composite panels with cutouts
[AD-A136772] 10 p1517 N84-19931
Analysis of symmetric reinforcement of quasi-isotropic graphite-epoxy plates with a circular cutout under uniaxial tensile loading
[AD-A139998] 15 p2285 N84-24715
Experimental verification of constitutive equations for plasticity under biaxial, cyclic and nonradial loading conditions --- of austenitic steel
[REPT-5011202-81-1] 17 p2625 N84-26798
Experimental verification of constitutive equations for creep and the interaction of creep and plasticity under biaxial loading conditions
[REPT-5011202-81-3] 17 p2625 N84-26800
Modeling the behavior of type 304 stainless steel with a unified creep-plasticity theory 21 p3417 N84-31672
Large deflections of circular isotropic membranes subjected to arbitrary axisymmetric loading
[NASA-TM-86271] 21 p3419 N84-31686
Statistics of fracture of composite materials under multiaxial loading 22 p3544 N84-32433
Flexural support member having a high ratio of lateral-to-axial stiffness
[DE84-011104] 23 p3761 N84-33839

AXIAL MODES
Ballooning precessional instabilities in a single cell hot electron plasma
[DE84-007017] 14 p2230 N84-24373
A compact frequency-stable pulsed CO-2 laser
[AD-A143216] 22 p3600 N84-32806

AXIAL STRAIN
Evidence for stacking faults in multiaxial strained alpha-brass
[DE83-014118] 01 p0155 N84-11019
Relationship between morphology and mechanical properties of ultra high molecular weight polyethylene
[PB83-240960] 02 p0202 N84-11317
Analysis of interlaminar stresses in thick composite laminates with and without edge delamination
[NASA-TM-85738] 06 p0798 N84-15201
Calculations for uniaxial stress and strain cycling in plasticity
[AD-A135800] 09 p1332 N84-18698
Determining and modeling the response of piezoresistance transducers to dynamic loading
[AD-A137121] 10 p1498 N84-19788
Free edge strain concentrations in real composite laminates: Experimental-theoretical correlation
[NASA-CR-173818] 19 p2986 N84-28919
Identification of strain-softening properties and computational predictions of localized fracture
[AD-A141866] 19 p3036 N84-29258

AXIAL STRESS
Biaxial fatigue, a review of the literature
[FRP-82/17] 04 p0498 N84-13266
Instruction manual for the use of the CSIR triaxial rock stress measuring equipment
[CSIR-ME-1763] 04 p0538 N84-13535
Hydrogen embrittlement of titanium sheet under multiaxial deformation paths
[AD-A133846] 05 p0654 N84-14298
Evaluation of a biaxial test fixture
[AD-A134845] 08 p1171 N84-17829
Axial test methods development for 3-D cylindrical-weave carbon-carbon composite materials
[AD-A138221] 12 p1790 N84-21672
Torsional and axial hot fatigue characterization of the Z2 NKD 18-8-5 steel (maraging 250): Specimens obtained from a bar. Summary of test number M3 418700
18 p2815 N84-27874
The influence of stress on the principal polarisation directions of ultrasonic shear waves in textured steel plates
[AERE-R-11078] 18 p2854 N84-28124
Applications of the scanning electron microscope to concrete failure (Axial, biaxial, and dynamic)
[AD-A141788] 19 p3036 N84-29256

AXIOMS
Axiomatic characterization and comparative analysis of preference on desirability and possibility
[AD-P002329] 14 p2189 N84-24120
A general method for the evaluation of degree of completeness
[AD-P002354] 14 p2192 N84-24145
Towards a formal multi-valued utility theory
[AD-P002356] 14 p2193 N84-24147
Synthesis of axion systems for the three-valued predicate logic by means of the special four-valued logic
[AD-P002358] 14 p2193 N84-24149

AXISYMMETRIC BODIES
Experimental studies of boundary layer transition on a spinning and non-spinning axisymmetric body
01 p0002 N84-10014
Numerical analysis of dusty supersonic flow past blunt axisymmetric bodies
[UTIAS-267] 01 p0003 N84-10023
An experimental investigation of the impingement of a planar shock wave on an axisymmetric body at Mach 3
[NASA-TM-84410] 09 p1312 N84-18573
Nonlinear sloshing analysis of liquid in containers with arbitrary geometries
[NAL-TR-757] 09 p1313 N84-18579
Numerical investigation of the aerodynamics and stability of a flared afterbody for axisymmetric projectiles at supersonic speeds
[AD-A136826] 10 p1420 N84-19289
Extension to an analysis of turbulent swirling compressible flow for application to axisymmetric small gas turbine ducts
[NASA-CR-165597] 11 p1753 N84-21445
Finite element model for nonaxisymmetric structure with rate dependent yield conditions
[AD-A139530] 14 p2158 N84-23930
On the origin of Be phenomenon
15 p2422 N84-25552
A ring source method for predicting the aerodynamic characteristics of bodies of revolution
[COA-8409] 19 p2957 N84-28744
Implementation of uniform perturbation method for potential flow past axisymmetric and two-dimensional bodies
[NASA-CR-173829] 20 p3125 N84-29851
Development and application of an analysis of axisymmetric body effects on helicopter rotor aerodynamics using modified slender body theory
[NASA-TM-85934] 21 p3324 N84-31090
Another look at the use of complex sources for the generation of bodies of revolution in incompressible flow
[CAR-8412] 21 p3396 N84-31555
Supersonic nonsteady flow past flat and axisymmetric pointed bodies 21 p3485 N84-32088
Representation of potential flow about axisymmetric bodies with discrete singularities
[AD-A143526] 22 p3594 N84-32760

AXISYMMETRIC DEFORMATION
U AXIAL STRAIN

AXISYMMETRIC FLOW
NT ANNULAR FLOW
Numerical procedure for an inviscid stability analysis of an axisymmetric jet
[PB83-224071] 01 p0083 N84-10537
Numerical simulation of the countercurrent flow in a gas centrifuge
[DE83-013323] 02 p0218 N84-11432
The AGCE related studies of baroclinic flows in spherical geometry
[NASA-CR-170934] 03 p0371 N84-12415
Boundary-integral simulations of rayleigh-taylor instability in ideal magnetohydrodynamics
[AD-A131667] 03 p0444 N84-12920
Investigation of axisymmetric confined turbulent jet mixing in the near region with adverse pressure gradient
04 p0478 N84-13148
The effects of external and self excitations on axisymmetric jet turbulence and noise
05 p0743 N84-14878
The CARS spectroscopy in a supersonic jet
06 p0800 N84-15216
Viscous effects and heat transfer in a calculation method for axialsymmetric flow in multistage turbomachines using the stream function 07 p0956 N84-16201
Computation of strongly swirling axi-symmetric free jets
[KU-SFB-80/T/216] 07 p1004 N84-16512
Experimental investigation of the turbulent axisymmetric jet 08 p1155 N84-17518
A calculation of the parabolized Navier-Stokes equations for turbulent axisymmetric flows using streamline coordinates and k-epsilon turbulence model
[AD-A136240] 09 p1313 N84-18582
Turbulence characteristics of an axisymmetric reacting flow 11 p1611 N84-20548
Axisymmetric MHD equilibria with flow — Tokamaks
[IPP-6/230] 13 p2044 N84-23262
Water-tunnel study of transition flow around circular cylinders
[NASA-TM-85879] 14 p2100 N84-23606
A rapid method for predicting suction distributions to maintain attached, laminar boundary layers on bodies of revolution
[AD-A139125] 14 p2145 N84-23856
A review of internal combustion engine combustion chamber process studies at NASA Lewis Research Center
[NASA-TM-83666] 15 p2331 N84-24999
Hypersonic static and dynamic stability. Part 2: Inviscid prediction methods for unsteady hypersonic flow
16 p2442 N84-25664
Treatment of the discontinuity in the spin-up problem with impulsive start
[AD-A133682] 16 p2485 N84-25840
Numerical and optical experiments on the Weissenberg effect
[DFVLR-FB-84-04] 16 p2493 N84-25992
Separation flow of transsonic water stream past circular cone 17 p2647 N84-26929
Multiple buoyancy driven flows in a vertical cylinder heated from below
[NASA-CR-173626] 17 p2666 N84-27001
Sensitivity analysis of predicted reacting flow characteristics in solid fuel ramjet combustors
[AD-A141279] 18 p2796 N84-27740
On the evaluation of boundary layer measurements on boattailed bodies of revolution in axisymmetric compressible subsonic flow
[DFVLR-FB-84-09] 18 p2837 N84-28010
Random-choice solutions for two-dimensional and axisymmetric supersonic flows 20 p3168 N84-30115
Turbulence characteristics of swirling flowfields
23 p3687 N84-33371
Analysis of combustion oscillations in heterogeneous systems
[AD-A144436] 24 p3880 N84-34583
The calculation of the axisymmetrical subsonic viscous flow field of annular diffusers with prewhirling current at the inlets
[AD-A144534] 24 p3901 N84-34702
Theoretical analyses of baroclinic flows
24 p3923 N84-34830

AXISYMMETRY
U SYMMETRY

AXLES
U SHAFTS (MACHINE ELEMENTS)

AXONS
Research Reports of the Faculty of Engineering, no. 31
[DEC/1983/31] 21 p3476 N84-32034
Nonlinear dynamics in excitable nerve membranes
21 p3477 N84-32037

AZIDES (INORGANIC)
A shock tube study of chlorine azide decomposition
13 p1958 N84-22728

AZIDES (ORGANIC)
Synthesis and chemistry of energetic metallotetraazadienes
[AD-A136269] 09 p1278 N84-18344
The onset of detonation behind incident shock waves in chlorine azide-argon mixtures
13 p1990 N84-22921
Organic azides as jet fuel additives: Synthesis of azides and micro-explosion characteristics of droplets
20 p3144 N84-29963

AZIMUTH
Microwave measurements of azimuthal asymmetries in accelerating fields of disk-loaded waveguides
[DE83-012705] 02 p0210 N84-11373
Interaction of the plasma tail of comet Bradfield 1979L on 1980 February 6 with a possibly flare-generated solar-wind disturbance 03 p0475 N84-13126
Lateral heterogeneity and azimuthal anistropy of the upper mantle: Love and Rayleigh waves 100-250 sec
[NASA-CR-174619] 06 p0878 N84-15710
An error analysis of range-azimuth positioning
[AD-A136775] 10 p1525 N84-19990
Applicability of stellar rate for astronomic position determination
[AD-A135845] 10 p1595 N84-20452
Acta Aeronautica et Astronautica Sinicia (selected articles)
[AD-A137150] 11 p1599 N84-20475
Mode S surveillance netting
[AD-A136267] 12 p1768 N84-21531
Evaluation of the effects of the seasonal variation of solar elevation angle and azimuth on the processes of digital filtering and thematic classification of relief units
[E84-10121] 14 p2167 N84-23980
Multiseasonal variables in digital image enhancements for geological applications
[E84-10145] 16 p2508 N84-26093

AZINES
Transient photochemistry of neutral red
[AD-A131564] 18 p2810 N84-27839
Dihalo-monaphospha-s-triazines and their derivatives
[AD-D011175] 23 p3714 N84-33545
Halo-substituted diphospha-s-triazines and their derivatives
[AD-D011176] 23 p3714 N84-33546

AZO COMPOUNDS
NT RDX
Vibrational energy transfer at a surface in reacting systems. Decomposition of azomethane
[AD-A137966] 12 p1901 N84-22381

AZOLES
NT CARBAZOLES
NT PYRROLES
NT TRYPTOPHAN
Synthesis and investigation of polyimidobenzimidazoles
[AD-A140184] 16 p2471 N84-25838
Studies on B-(Pyrazol-1'-yl)pyrazaboles
[AD-A141115] 19 p2998 N84-28997
A method for obtaining new derived benzimidazoles
[AD-A144320] 24 p3867 N84-34507

A2F AIRCRAFT
U A-6 AIRCRAFT

B

B STARS
A study of A- and B-type stars in the southern galactic halo 04 p0618 N84-14077
The emission line spectra of cataclysmic variable accretion disks 16 p2576 N84-26533
Spectral analysis of (very) hot stars: Methods and results 24 p3971 N84-35140
Interstellar lines in high resolution IUE spectra of run-away B type stars 24 p3973 N84-35160
An analysis of the helium-weak stars HD 144334
24 p3976 N84-35182
Flux variations of 88 Her through phase transition from far UV to visual 24 p3976 N84-35184
Possible identifying characteristics of Be stars
24 p3976 N84-35185
An IUE study of Be stars with Fe 2 emissions in the visible 24 p3976 N84-35186

An estimate of V348 Sgr effective temperature
24 p3978 N84-35201

B-A-W DEVICES
U BULK ACOUSTIC WAVE DEVICES

B-1 AIRCRAFT
Flight test and analyses of the B-1 structural mode control system at supersonic flight conditions
[NASA-CR-170405] 04 p0487 N84-13197
Airloads research study. Volume 1: Flight test loads acquisition
[NASA-CR-170409] 08 p1103 N84-17173
Airloads research study. Volume 2: Airload coefficients derived from wind tunnel data
[NASA-CR-170410] 08 p1103 N84-17174
B-1B Avionics/Automatic test equipment: Maintenance queueing analysis
[AD-A141175] 18 p2795 N84-27736

B-52 AIRCRAFT
Companion trainer aircraft: Concept test
[AD-A131378] 02 p0268 N84-11757
Extending the lifetime of operational systems through corrosion tracking and prediction
[AD-A133931] 05 p0625 N84-14112
Preflight transient dynamic analyses of B-52 aircraft carrying Space Shuttle solid rocket booster drop-test vehicle
[NASA-TM-84925] 06 p0858 N84-15588
A study of the aerodynamic interference effects during aerial refueling
[AD-A136895] 10 p1420 N84-19290
Corrosion in large aircraft: Management of the problem 11 p1631 N84-20666
Dynamic assessment of B-52B-006 carrier aircraft for the revised Space Shuttle solid rocket booster decelerator subsystem drop test vehicle
[NASA-CR-170989] 12 p1779 N84-21606

BABOONS
Comparison of Rhesus monkey and baboon -G sub x acceleration experiments
[AD-A141395] 19 p3063 N84-29436

BACK INJURIES
Aermedical Support in Military Helicopter Operations
[AGARD-LS-134] 16 p2536 N84-26279
Back pain in helicopter flight operations
16 p2537 N84-26288
Position and restraint system for aircrewman
[AD-D011058] 22 p3532 N84-32364

BACKGROUND NOISE
Technique for producing a coherent sum of the data from P78-1, F2, and F4 satellites
[AD-A131965] 03 p0340 N84-12210
Development of a segmented n-type germanium detector, and its application to astronomical gamma-ray spectroscopy
[NASA-TM-85435] 03 p0461 N84-13039
Further development of magnetotelluric methods for the exploration of the pre-Zechstein by improvement of the data processing codes, data acquisition and interpretation techniques
[BMFT-FB-T-83-190] 07 p1023 N84-16638
Aircraft and background noise annoyance effects
[NASA-TM-85744] 09 p1386 N84-19051
New principle of array processing in underwater passive listening 09 p1401 N84-19152
Detection of space-time signal with scattering from background of isotropic noise field
17 p2632 N84-26835
Annoyance ratings for impulse and traffic sounds at two different background noise levels
[IZF-1983-27] 17 p2725 N84-27345
Noise path identification using face-to-face and side-by-side microphone arrangements
[NASA-CR-173708] 18 p2928 N84-28569
Spatial fluctuations in the diffuse cosmic X-ray background
[NASA-TM-85029] 24 p3994 N84-35281

BACKGROUND RADIATION
The polarization and anisotropy on large angular scales of the microwave background radiation in homogeneous cosmologies 02 p0306 N84-12007
Correlation between two spacecraft in the Doppler detection of a gravitational background radiation
[IFSI-83-7] 03 p0363 N84-12362
Large scale anisotropy of the 3K cosmic background radiation at 24.8, 31.4 and 46.0 GHZ
05 p0765 N84-15020
Far Infrared Radiometric Spectrometer (FIRRS)
[AD-A133552] 06 p0847 N84-15527
Empirical background calculation method for multi-channel X-ray spectrometers
[PB84-130475] 09 p1319 N84-18618
The relation between isolated tree brightness temperature and grass background brightness temperature
[AD-A135843] 09 p1389 N84-19070
Derivation of the properties of the cosmic background radiation from a static world model
09 p1413 N84-19244
Rocket observations of the diffuse ultraviolet background 10 p1598 N84-20470
Optical characteristics of young quasars as sources of the cosmic X-ray background
[NASA-TM-85069] 11 p1760 N84-21488
Background sources in optical communications
[NASA-CR-173457] 12 p1907 N84-22422
Measurement of the intensity of the cosmic background radiation at 3.0 cm
[DE84-008246] 14 p2252 N84-24525
Linear energy transfer spectrum measurement experiment (P0006) 15 p2276 N84-24665
Development of an interferometric technique for reduction of background radiation at 10 micrometers
[AD-A140081] 15 p2408 N84-25455
Stray light analysis of the Diffuse Infrared Background Experiment (DIRBE)
[NASA-CR-175225] 16 p2575 N84-26529
The diffuse ultraviolet background: 1700 - 2900 Angstroms 16 p2576 N84-26534
Limits on soft X-ray flux from distant emission regions
[NASA-CR-173591] 16 p2582 N84-26558
Spatial fluctuations in the diffuse cosmic X-ray background, volumes 1 and 2 17 p2775 N84-27621
Microwave and theoretical studies for Cosmic Background Explorer satellite
[NASA-CR-175248] 18 p2954 N84-28721
Ultraviolet studies of interstellar matter
23 p3839 N84-34356
On detecting diffuse ultraviolet radiation of cosmological origin
[PREPRINT-10] 23 p3840 N84-34362
Search for the radiative decay of a cosmic relic particle with IUE 24 p3982 N84-35231

BACKINGS
U BACKUPS

BACKSCATTERING
Measured ionospheric Doppler spreading of HF ground backscatter
[PB83-220764] 01 p0068 N84-10446
Radar remote sensing for crop classification and canopy condition assessment: Ground-data documentation
[E84-10020] 01 p0099 N84-10643
Atmospheric infrared backscatter:: Summary of present knowledge and recommendations for future work
[PB83-222281] 01 p0106 N84-10690
Microwave backscattering from short gravity waves. A deterministic, coherent and dual-polarized laboratory study
[AD-A131217] 01 p0111 N84-10719
Stimulated Brillouin backscatter in long scale length plasmas
[DE83-013817] 01 p0150 N84-10984
Effects of vegetation canopy on the radar backscattering coefficient
[NASA-TM-85070] 02 p0208 N84-11359
Speed-dependent collision effects on radar back-scattering from the ionosphere --- incoherent scatter radar
[NASA-CR-173077] 03 p0359 N84-12336
X-ray and backscattering analysis of ion implantation phenomena in GaAs and related compounds
[AD-A132429] 04 p0612 N84-14038
Summary of ionospheric heating experiments at Tromsoe (Norway) 05 p0635 N84-14178
Analysis of electromagnetic backscatter from an inlet cavity configuration
[AD-A133626] 05 p0669 N84-14400
The dependence of the radar modulation transfer function on environmental conditions and wave parameters (A contribution to studies of radar backscattering from the sea surface). Revision
[AD-A133064] 05 p0670 N84-14408
Focused acoustical and optical backscattering from spheres and properties of optoacoustic sources
[AD-A133744] 05 p0747 N84-14904
Ion channeling analysis of GaAs/sub x/P/sub 1-x/GaP strained-layer superlattices
[DE84-002536] 05 p0755 N84-14952
Surface and near-surface analysis of diamond by RBS
06 p0814 N84-15302
Multifrequency scattering for target characterization and identification: A summary of recent results
06 p0870 N84-15663
The effect of turbulent atmosphere on backscattered waves 06 p0870 N84-15664
The nature of microwave backscattering from water waves 06 p0870 N84-15665
Multiple paths on the ocean surface
06 p0870 N84-15666
Variation of laser absorption with plasma scalelength in long-scalelength plasmas
[DE84-002743] 06 p0921 N84-15991
Backscattering from inhomogeneous media with irregular boundaries
[AD-A134500] 07 p0993 N84-16440
Relation between atmospheric scattering and backscattering coefficient
[DFVLR-FB-83-20] 07 p1075 N84-16989
Characterization of the TEXTOR plasma edge using deposition probe techniques
[DE84-003308] 07 p1078 N84-17011
Ion beam modification of ceramics
[DE84-003302] 08 p1138 N84-17403
A study of the dependence of radar backscatter cross section on wind speed and wave slope from the MARSEN experimental results (a contribution to studies of radar backscattering from the sea surface). Supplement to final report
[AD-A135041] 08 p1144 N84-17441
Approaches to radar image interpretation
08 p1177 N84-17669
NIMBUS-7 SBUV (Solar Backscatter Ultraviolet) observations of solar UV spectal irradiance variations caused by solar rotation and active-region evolution for the period November 7, 1978 - October 26, 1979
[PB84-108166] 08 p1188 N84-17743
Thresholds of Raman backscatter: Effects of collisions and Landau damping
[DE84-003736] 08 p1233 N84-18060
Research on new approaches to optical systems for inertial rotation sensing
[AD-A136045] 09 p1254 N84-18186
Optical time-domain reflectometer performance and calibration studies
[PB84-110964] 09 p1390 N84-19082
Particle scattering studies on foreign ions in superionic conductors
[AD-A137231] 10 p1588 N84-20406
Theoretical and experimental analysis of laser altimeters for barometric measurements over the ocean
[NASA-CR-175443] 11 p1662 N84-20842
Beta systems error analysis
[NASA-CR-170998] 11 p1705 N84-21117
Computerised optical fibre characterisation
11 p1727 N84-21266
Scattering experiments at the Ipswich electromagnetic measurements facility: Calibration with perfectly conducting spheres
[AD-A138028] 12 p1806 N84-21772
Determination of the sources of radar scattering
12 p1832 N84-21941
Effects of vegetation canopy structure on microwave scattering 12 p1832 N84-21942
Determination of the sources of radar scattering
12 p1834 N84-21954
Measurement of ocean surface winds by SEASAT synthetic aperture radar
[AD-A138392] 12 p1836 N84-21971
Observing system simulation experiments related to space-borne Lidar wind profiling. Part 2: Sensitivity to atmospheric and instrumental influences
12 p1850 N84-22053
Energy loss of 24.8-MeV electrons by interacting with thick layers of C, Al, Cu, and Pb
[ETL-836] 13 p2046 N84-23277
Radar backscatter modelling
13 p2088 N84-23525
BETA: A program for calculating and archiving backscattering profiles taken with the NOAA National Oceanic and Atmospheric Administration) coherent lidar system
[PB84-150168] 14 p2177 N84-24040
Determining of surface oxide compositions on Alloy 600 using Rutherford backscattering
[DE84-002872] 15 p2299 N84-24797
Pattern deformation of scalar antenna arrays due to near field backscatter
[LFD-210] 15 p2318 N84-24913
Theoretical and experimental study of radar backscatter from sea ice
[AD-A139866] 15 p2321 N84-24935
Marginal ice zone experiment (1983). Part 1: Ice characterization measurements. Part 2. Helicopter-borne and ship-based radar backscatter measurement of sea ice in the marginal ice zone
[AD-A139894] 15 p2373 N84-25238
Dependence of the backscattering coefficients of light ions upon angle of incidence
[IPPJ-AM-34] 15 p2409 N84-25459
Three component velocity measurements using Fabry-Perot interferometer
[NASA-TM-83692] 16 p2495 N84-26010
The theory of Earth observation using multiple-frequency radar
[ESA-TT-819] 16 p2509 N84-26105
Definition and design of spaceborne lidar instruments
16 p2529 N84-26240

The MST radar technique: Requirements for operational weather forecasting 17 p2682 N84-27077
Interpretation of MST radar returns from clear air 17 p2683 N84-27085
The delta S (delta R)-2 question: The pulse-length dependence of signal power for Fresnel scatter 17 p2685 N84-27099
The relationship between strength of turbulence and backscattering radar power at HF and VHF 17 p2689 N84-27125
Signal processor architecture for backscatter radars 17 p2695 N84-27164
Parmeterization of spectra 17 p2696 N84-27170
SPECTRASAT: A concept for the collection of global directional wave spectra 17 p2712 N84-27265
A new parameterization of an empirical model for wind/ocean scatterometry 17 p2712 N84-27269
Does the scatterometer see wind speed or friction velocity? 17 p2713 N84-27270
Scanning wind-vector scatterometers with two pencil beams 17 p2713 N84-27271
New algorithms for microwave measurements of ocean winds 17 p2713 N84-27272
Optimum backscatter cross section of the ocean as measured by synthetic aperture radars 17 p2714 N84-27276
Non-Gaussian statistical models of surface wave fields for remote sensing applications 17 p2715 N84-27284
Project Noordwijk. Part 4: The radar backscatter of oil spills as measured at platform Noordwijk [PHL-1983-47] 17 p2725 N84-27344
Infrared photothermal radiometry [AD-A140562] 17 p2765 N84-27561
Backscatter from a corner reflector close to a two-antenna radar system [FOA-C-30355-E1] 18 p2830 N84-27968
The nature of microwave backscattering from water waves [AD-A141877] 19 p3006 N84-29056
HF omnidirectional spectral CW auroral radar (HF-OSCAR) at very high latitude. Part 1: Technique [DMI-GEOPHYS-PAPERS-R-67] 19 p3010 N84-29079
Project Noordwijk, part 5: Analysis of the fading component of the radar backscatter [AD-B083044] 19 p3010 N84-29082
Active and passive remote sensing of ice [AD-A141473] 19 p3041 N84-29293
Sensitivity of a lidar inversion algorithm to parameters relating atmospheric backscatter and extinction [AD-A141565] 19 p3054 N84-29378
Backscatter measurements on snow covered terrain at 94 GHz — radar [REPT-4-84] 20 p3172 N84-30144
Nordsee radar backscatter measurements data report [AD-A141914] 20 p3173 N84-30148
Study of stimulated Brillouin and Raman scattering [DE84-011260] 20 p3194 N84-30286
First observations of 140 MHz plasma line backscatter during healthy experiments at Tromsoe [UIO-SR-84-02] 20 p3243 N84-30588
Development of a global model for atmospheric backscatter at CO2 wavelengths [NASA-CR-171130] 21 p3382 N84-31459
Double scattering background in a CW lidar 21 p3483 N84-32072
Frequency correlation of HF skywave ground backscatter Doppler spectra [PB84-204353] 22 p3578 N84-32668
Statistics at HF skywave ground backscatter Doppler spectra [PB84-204973] 22 p3578 N84-32669
Wave propagation in dense geophysical media [AD-A143213] 22 p3623 N84-32955
High-frequency acoustic backscatter from the sea surface [AD-A143536] 22 p3652 N84-33152
The calculation of the radar vertical coverage diagram [AD-A143647] 23 p3731 N84-33645
The X, and L-band radar backscatterer analysis of agricultural crops in West Germany 23 p3767 N84-33879
Radar backscattering of forest stands 23 p3767 N84-33880
On the relationships between radar backscattering coefficient and vegetation canopy characteristics 23 p3768 N84-33882
On the SAR response of agricultural targets in a northern prairie environment 23 p3770 N84-33896
Measurements of microwave backscattering signatures of the ocean surface using X-band and Ka-band airborne scatterometer/radiometer system 23 p3771 N84-33907
NASA/MSFC FY-84 Atmospheric Processes Research Review [NASA-CP-2329] 24 p3923 N84-34829
Overview of global scale research Doppler lidar activities 24 p3924 N84-34836
Atmospheric backscatter research 24 p3924 N84-34837
Development of a global model for atmospheric backscatter at CO2 wavelengths 24 p3924 N84-34838
Atmospheric effects on coherent lidar systems 24 p3924 N84-34839
Pulsed photothermal radiometry for noncontact spectroscopy, material testing and inspection measurement [AD-A144640] 24 p3964 N84-35101

BACKSHORES
U BEACHES

BACKUPS
Improved impact tolerant material [NASA-CASE-LAR-12887-1] 11 p1627 N84-20649

BACKWARD DIFFERENCING
Multidimensional explicit difference schemes for hyperbolic conservation laws [NASA-CR-172254] 03 p0425 N84-12778

BACKWARD FACING STEPS
Computation of turbulent flows over backward-facing step [NASA-TM-85851] 03 p0371 N84-12414
Finite element analysis of incompressible turbulent backstep flow with heat transfer [DE84-003101] 07 p1003 N84-16502

BACKWARD WAVE TUBES
Gyrotron backward-wave oscillator [AD-A140906] 17 p2664 N84-26993

BACKWARD WAVES
Ladder supported ring bar circuit [NASA-CASE-LEW-13570-1] 07 p0995 N84-16452
Dielectric based submillimeter backward wave oscillator circuit [NASA-CASE-LEW-13736-1] 18 p2831 N84-27974

BACTERIA
NT SALMONELLA
NT STAPHYLOCOCCUS
Microbial fouling and its effect on power generation [AD-A131084] 01 p0112 N84-10726
Time-resolved laser studies on the energy transfer and the configurational changes in bacteriohodopsin [DE83-015708] 03 p0382 N84-12487
Biological chemistry 06 p0796 N84-15190
The role of microorganisms in marine corrosion processes [AD-A133113] 06 p0885 N84-15757
Kinetic model on substrate-metabolic system and growth of microorganisms in activated sludge 07 p0982 N84-16362
Influence of variable magnetic field on bactericidal effect of ionizing radiation 07 p1043 N84-16765
Effectiveness of a device for detection of bacteriological aerosols; improvements in standardization and sensitivity in the laboratory [FOA-C-40175-B2] 10 p1546 N84-20132
The biochemistry and physiology of bacterial adhesion to surfaces [AD-A138271] 13 p2019 N84-23094
Relationship of regional water quality to aquifer thermal energy storage [DE84-006649] 14 p2169 N84-23992
Methane producing bacteria: Immunological characterization 19 p3064 N84-29438
Effect of living conditions in confined space on formation of bacterial aerosol 20 p3255 N84-30659
Unraveling photosystems [DE84-013812] 22 p3629 N84-32994

BAFFLES
Baffle system employing reflective surfaces [NASA-TM-84406] 04 p0604 N84-13985
Pressure letdown method and device for coal conversion systems [NASA-CASE-NPO-15100-1] 05 p0698 N84-14583
Liquid management in low gravity using baffled rotating containers [NASA-TP-2263] 06 p0834 N84-15427
Study on the baffle system of the sounding rocket payload INTER-ZODIAK [BMFT-FB-W-83-015] 07 p0962 N84-16239
Dynamics of tubes in fluid with tube-baffle interaction — heat exchanger tubes [DE84-001452] 07 p1003 N84-16508
Optimized baffle and aperture placement in neutral beamlines [DE84-003746] 09 p1388 N84-19062
A new satellite instrument for yaw and pitch measurements [AD-A138729] 13 p1937 N84-22599
Optical system with reflective baffles [NASA-CASE-ARC-11502-1] 16 p2557 N84-26400
Effect of boattail geometry on the acoustics of parallel baffles in ducts [NASA-TM-85981] 19 p3099 N84-29686
Flexible, resilient anti-contamination baffle [AD-D011111] 22 p3542 N84-32421
Dynamic characteristics of heat exchanger tubes vibrating in a tube support plate inactive mode [DE84-014844] 23 p3761 N84-33840

BAGS
NT AIR BAG RESTRAINT DEVICES

BAINITE
Dilatometric investigation of phase-transformation kinetics in HP 9-4-20 steel [DE84-001180] 04 p0500 N84-13280

BAINITIC STEEL
Reactor pressure vessel steels ASME SA 533B and SA508.C1.2: Microstructural investigations — heat treatment effects [VTT-RR-219] 07 p0977 N84-16333
A microstatistical model for carbide induced cleavage fracture — of steels [VTT-RR-220] 07 p1017 N84-16599
A study of the tempering transformation of retained austenite in isothermal quenching structures, bainite tempered embrittlement 20 p3159 N84-30065

BAJA CALIFORNIA
U LOWER CALIFORNIA (MEXICO)

BAKEOUT
U DEGASSING

BALANCE
Aeroelastic design considerations for turboprop powerplant installations 02 p0171 N84-11123
Turbulent tube-flow heat transfer coefficients in the presence of flow imbalance in the tubes of a parallel array 03 p0374 N84-12437
A note on the analysis of random balance designs [AD-A133287] 06 p0901 N84-15848
Dynamically stable legged locomotion [AD-A136644] 09 p1383 N84-18905
Unbalance response of a single mass rotor mounted on dissimilar hydrodynamic bearings 10 p1515 N84-19919
EPA (Environmental Protection Agency) evaluation of the Gyroscopic Wheel Cover device under section 511 of the Motor Vehicle Information and Cost Savings Act [PB84-143577] 12 p1921 N84-22514

BALANCE EQUATIONS
U EQUATIONS

BALANCING
Optimization of parameters of electromechanical systems with mechanical balancing [BLL-M-35442] 09 p1324 N84-18651
Compacted virtual search tree and addressed ordered binary trees for file organization [INPE-3075-TDL/161] 16 p2548 N84-26349

BALL BEARINGS
Topological reaction rate measurements related to scoffing [NASA-TM-83486] 05 p0652 N84-14288
Thermal conductance and torque of thin section four-point contact ball bearings in vacuum [ESA-ESTL-54] 06 p0853 N84-15562
The ball bearing as a rheological test device [NASA-TM-83570] 08 p1166 N84-17591
The stiffness torque and thermal conductance of thin-sector four-point contact ball bearings for use in spacecraft mechanisms 09 p1295 N84-18465
Computational methods for ball bearings in spacecraft 09 p1295 N84-18466
Some observations on the performance of Fomblin Z25 oil and Braycote 3L-38RP grease in ball bearings and gear boxes 09 p1296 N84-18467
Comparison of predicted and experimental thermal performance of angular-contact ball bearings [NASA-TP-2275] 09 p1325 N84-18654
Engine-transmission angular-contact ball thrust bearing endurance tests [AD-A136264] 09 p1325 N84-18655
High pressure oxygen turbopump bearing cage stability analyses — space shuttle main engine [NASA-CR-170991] 10 p1502 N84-19815
First order ball bearing kinematics [NASA-TM-83592] 10 p1502 N84-19816
Approach to solving problem of acoustic wave diffraction by elastic shell 13 p1973 N84-22804
Balancing of flexible rotors with simultaneous precise determination of influencing factors 13 p1974 N84-22808
Bearing tester data compilation, analysis and reporting and bearing math modeling, volume 1 [NASA-CR-171039] 15 p2340 N84-25046
Transient EHL effects in starved ball bearings 15 p2341 N84-25054

The oil impregnation of phenolic-resin-based materials used in the fabrication of ball-bearing cages
[ESA-PSS-01-712-ISSUE-1] 16 p2472 N84-25846
Effect of outer race misalignment on the high speed performance of ball bearings
[NAL-TR-786] 16 p2498 N84-26028
Molecular order and solidification processes in organic liquids and solutions
[AD-A141777] 19 p3101 N84-29699
Solid lubrication design methodology
[NASA-CR-174690] 22 p3677 N84-33309
Life tests of ball bearings at 120C in helium atmosphere
[JUEL-1911] 23 p3757 N84-33816
Torque properties of oscillating, dry-lubricated ball bearings in vacuum — spacecraft lubrication
[ESA-ESTL-57] 23 p3758 N84-33820
Optical and other property changes of M-50 bearing steel surfaces for different lubricants and additive prior to scuffing
[NASA-TM-83746] 24 p3888 N84-34620

BALLAST
High-intensity discharge (HID) solid-state ballast program: Engineering development report, phase 2
[DE84-013882] 22 p3588 N84-32726

BALLISTIC MISSILES
NT INTERCONTINENTAL BALLISTIC MISSILES
NT MINUTEMAN ICBM
NT PERSHING MISSILE
Laser effects and vulnerability program. Liquid propellant characterization
[AD-A134584] 07 p1010 N84-16550
Ballistic missile defense, space-based weapons, and the defense of the west
[AD-A140280] 16 p2454 N84-25738

BALLISTICS
NT HYDROBALLISTICS
NT INTERIOR BALLISTICS
NT TERMINAL BALLISTICS
Laser surface hardened patterns for increased ballistic protection
[AD-A130385] 01 p0043 N84-10277
Computational modeling of aerodynamic heating for XM797 nose cap configurations
[AD-A133684] 05 p0627 N84-14126
The 20th JANNAF Combustion Meeting, volume 1
[AD-A138033] 13 p1943 N84-22632
Laser ballistic sensor development — projectile yawing motion
[AD-A140427] 17 p2671 N84-27026
Calculation of ballistic focusing of ion beams
[DE84-012870] 20 p3297 N84-30934
Textile ballistic performance (data base)
[AD-A143249] 22 p3560 N84-32541

BALLISTOCARDIOGRAPHY
Ballistocardiography: A non-invasive method advancing towards clinical application 11 p1701 N84-21093

BALLOON SOUNDING
A portable real-time data processing system for standard meteorological radiosondes
[NASA-CR-175358] 07 p1036 N84-16719
Development of a command control and communications system for light aircraft
[AD-A139474] 14 p2140 N84-23831
Measurement of H2O and other trace gases in the stratosphere using a high resolution far-infrared spectrometer at 28 km
[NASA-CR-173879] 22 p3622 N84-32951

BALLOON-BORNE INSTRUMENTS
An on board control and supervisory system
[INPE-2812-TDL/139] 02 p0208 N84-11357
Observations of galactic center for annihilation line at 0.511 MeV
[INPE-2907-PRE/421] 02 p0305 N84-12000
GSE for balloon-borne I.M.S.: Decommutator and D/A units
[AD-A131845] 03 p0377 N84-12452
Information processing for the infrared balloon telescope Goldener Drache
[MPE-38] 03 p0461 N84-13035
A mercuric detector system for X-ray astronomy. 2. Results from flight tests of a balloon borne instrument
[NASA-CR-175329] 06 p0938 N84-16095
A portable real-time data processing system for standard meteorological radiosondes
[NASA-CR-175358] 07 p1036 N84-16719
PULSAR: A balloon-borne experiment to detect variable low energy gamma-ray
[INPE-2950-PRE/433] 07 p1093 N84-17108
High resolution X- and gamma-ray spectroscopy of cosmic X-ray sources
[NASA-CR-175368] 08 p1246 N84-18148
A balloon-borne high-resolution spectrometer for observations of gamma-ray emission from solar flares
[NASA-TM-86069] 09 p1416 N84-19266
Results of the 1983 NASA/JPL balloon flight solar cell calibration program
[NASA-CR-173465] 12 p1779 N84-21609
Development of a command control and communications system for light aircraft
[AD-A139474] 14 p2140 N84-23831
Earth-based planetary data 23 p3842 N84-34374

BALLOONS
NT HIGH ALTITUDE BALLOONS
NT METEOROLOGICAL BALLOONS
NT MICROBALLOONS
Enhanced compressible fluids investigation
[AD-A131622] 02 p0218 N84-11428
A balloon design for 9000 pounds at 90,000 feet: Recommendations based on heavy-load balloon history
[AD-A131987] 03 p0320 N84-12093
JBFA - buoyant flight
[NASA-TM-76815] 07 p0946 N84-16136
An experimental study on wave interception by several pairs of balloons and a pair of grouped several balloons in submerged state 07 p0982 N84-16363
Characterization of acid rain for source identification. Task 1: Sulfur isotope rationing
[DE84-006510] 12 p1845 N84-22030

BALMER SERIES
The 100% alignment of hydrogen excited states in beam-foil spectroscopy
[DE83-017963] 03 p0436 N84-12859
Ultraviolet studies of nova-like variables with the IUE
[NASA-CR-175233] 07 p1089 N84-17080

BALTIC SEA
Introductory studies of natural contamination and manmade pollution in Danish waters 03 p0399 N84-12606
Trapped topographic waves in Baltic Sea 17 p2698 N84-27186

BANACH SPACE
NT SOBOLEV SPACE
Convolution of generalized vector measures 04 p0577 N84-13803
A characterization of an element of best simultaneous approximation
[AD-A134542] 07 p1063 N84-16893
Regular operator approximation theory
[HMI-B-389] 08 p1226 N84-18008
Semigroup associated with a quasi-linear system in which the coupling is linear
[DE84-004227] 11 p1719 N84-21210
Symmetric systems with semisimple structure algebra: The quaternionic case
[NASA-CR-173421] 13 p2034 N84-23193
On the reduction procedure for weak convergence of measures
[CTH-MATH-1983-19] 14 p2215 N84-24306
Hitting probabilities of killed Brownian motion: A study on geometric regularity
[CTH-MATH-1983-11] 14 p2219 N84-24314
State estimation and parameter identification: An approach involving a pair consisting of the initial state and the trajectory
[INPE-3183-PRE/548] 21 p3471 N84-31995
Determinants connected with a trace on a Banach algebra 22 p3635 N84-33036
Analytic automorphisms of a bounded Reinhardt domain in a complex Banach space with base 22 p3636 N84-33044
Completely continuous multipliers from L sub 1 (G) into L sub infinity (G) 22 p3636 N84-33047
Symbolic dynamics and nonlinear semiflows
[AD-A143487] 22 p3646 N84-33117
Kolmogorov's and Mourier's strong laws for arrays with independent and identically distributed columns
[AD-A143222] 22 p3650 N84-33139

BAND RATIOING
Methodological approach in lithological discrimination by digital processing: A case study in the Serra do Ramalho, state of Bahia
[INPE-3108-PRE/507] 16 p2509 N84-26101

BAND STRUCTURE OF SOLIDS
Defect studies in semiconductors 05 p0752 N84-14931
Evaluation of gallium nitride for active microwave devices
[AD-A132968] 05 p0754 N84-14947
Two-dimensional impurity bands at semiconductor hetero-structure interfaces
[INPE-2996-PRE/448] 12 p1912 N84-22456
Investigation of nonlinear optical properties of semiconductors
[AD-A139227] 14 p2242 N84-24459
Variation of carrier concentration caused by band structure reconstruction in tellurium and tin-doped Al(x)Ga(1-x)As solid solutions 17 p2636 N84-26861
Band structure effects in the electronic properties of solids assessible in neutron scattering studies
[DE84-008557] 18 p2941 N84-28654
Theory of the electronic structure and optical properties of organic solids: Exciton effects
[AD-A142544] 20 p3149 N84-29993

BANDGAP
U ENERGY GAPS (SOLID STATE)

BANDPASS FILTERS
NT CRYSTAL FILTERS
NT TRACKING FILTERS
Etched cavity SAW (Surface Acoustic Wave) resonator elements for multipole filter applications
[AD-A131002] 02 p0288 N84-11886
Tuned analog network
[NASA-CASE-GSC-12650-1] 05 p0673 N84-14421
Optimum filtering required for broadband detection of Gaussian processes
[AD-A133721] 05 p0735 N84-14823
A representation for shape based on peaks and ridges in the difference of low-pass transform
[AD-A133299] 06 p0901 N84-15849
An active filter primer
[AD-A134836] 08 p1152 N84-17498
The Cloud Field Simulation Project 10 p1578 N84-20338
Voice preprocessing system incorporating a real-time spectrum analyzer with programmable switched-capacitor filters
[AD-A137999] 12 p1805 N84-21769
Low noise tuned amplifier
[NASA-CASE-GSC-12567-1] 13 p1985 N84-22887
Multispectral linear array multiband selection device
[NASA-CASE-GSC-12911-1] 15 p2335 N84-25016
Computer-aided design of millimeter wave e-plane filters
[AD-A141016] 18 p2833 N84-27987
Adaptive spread spectrum receiver using acoustic surface wave technology
[AD-A142129] 19 p3007 N84-29060
Dielectric-grating band-pass filters 21 p3379 N84-31442
Discrimination of iron alteration minerals in remote sensing data 21 p3425 N84-31727
Varying bandpass of optical spatial filter by rotating mirrors having changing reflectivity
[AD-D011114] 22 p3656 N84-33173

BANDWIDTH
NT BROADBAND
NT NARROWBAND
NT SPECTRAL LINE WIDTH
Suboptimal threshold detection in narrowband non-Gaussian noise
[AD-A129629] 01 p0071 N84-10464
IPACS attitude control technology considerations 03 p0345 N84-12238
Computational tool for the design of ultrasonic systems
[DE83-018092] 03 p0431 N84-12824
Computer-aided synthesis and design of monolithic microwave GaAs MESFET amplifiers
[AD-A132474] 04 p0525 N84-13452
Frequency-shaped estimation and robust controller design for aircraft flight control in wind disturbances 05 p0632 N84-14154
Investigation of digital encoding techniques for television transmission
[NASA-CR-171734] 07 p0991 N84-16421
Amplitude Compandored Sideband compared to conventional frequency modulation for VHF mobile radio: Laboratory and field testing results
[PB84-116383] 08 p1148 N84-17474
Advanced filter technology
[AD-A135446] 08 p1232 N84-18050
Multipole monolithic Surface Acoustic Wave (SAW) resonator filters
[AD-A136123] 09 p1309 N84-18561
Wideband monolithic microwave amplifier study
[AD-A136424] 09 p1318 N84-18608
Analysis of rectangular microstrip antennas
[NASA-TP-2276] 11 p1642 N84-20735
Remote-ended time domain bandwidth measurements on installed regenerator sections of multimode optical fibre cable in the British Telecom Network 11 p1727 N84-21267
Precise measurement of refractive index and absorption coefficient of near millimeter wave and far infrared materials
[AD-A138656] 13 p2043 N84-23253
Feasibility studies of optical processing of image bandwidth compression schemes
[AD-A138736] 13 p2043 N84-23254
Study of gain, bandwidth, and tunability of a millimeter-wave free-electron laser operating in the collective regime
[AD-A139285] 14 p2151 N84-23884
Singular value computations with systolic arrays
[AD-A139302] 14 p2211 N84-24277

Spectroradiometric calibration of the Thematic Mapper and Multispectral Scanner system — White Sands, New Mexico
[E84-10136] 16 p2506 N84-26084
Automatic measurement of bandwidth of microwave resonators 17 p2638 N84-26880
Effect of bandwidth and interference rejection on the spectrum efficiency of land mobile radio systems
[PB84-158369] 17 p2654 N84-26978
Extreme value estimates for arbitrary bandwidth Gaussian processes using the analytic envelope
[AD-A141685] 19 p3086 N84-29591
Fundamental and harmonic emission in interplanetary type 2 radio bursts
[NASA-TM-86099] 20 p3320 N84-31079
Broadband cavity-backed slot using printed circuit technology
[AD-P003508] 21 p3384 N84-31476
The 20 x 20 high speed microwave switches
[NASA-TM-83775] 22 p3575 N84-32644
Telemetry bandwidth selection for infrared surveillance sensors
[AD-A144251] 24 p3861 N84-34466

BANG-BANG CONTROL
U OFF-ON CONTROL

BANKING FLIGHT
U TURNING FLIGHT

BARCHANS
U DUNES

BARDEEN APPROXIMATION
U BARRIER LAYERS
U ELECTRICAL PROPERTIES
U SURFACE PROPERTIES

BARDEEN-COOPER-SCHRIEFFER THEORY
U BCS THEORY

BARENTS SEA
Seasonal ice variation in the Barents Sea obtained from the Nimbus 7 Scanning Multichannel Microwave Radiometer (SMMR) observations
23 p3773 N84-33919

BARITE
A compilation of mineral occurrences and the relationship of occurrences to structural elements of the Kentucky and Tennessee region
[NASA-CR-175240] 18 p2878 N84-28275

BARIUM
Results of PLACES data analysis
[AD-A130933] 01 p0066 N84-10432
Small scale structure in the Earth's ionosphere: Theory and numerical simulation
[AD-A130462] 01 p0105 N84-10680
Creating unstable velocity-space distributions with barium injections
[DE83-012783] 02 p0250 N84-11635
The relative abundances of Sn, Te, Xe, Ba and Ce
[NASA-CR-174599] 03 p0465 N84-13064
X-ray fluorescence analysis for barium, zinc, calcium and phosphorus in oil additives
[MRL-TN-475] 05 p0646 N84-14249
Rayleigh-Taylor instability in the presence of a stratified shear layer
[AD-A138544] 13 p2011 N84-23043
Georges Bank monitoring program: Analysis of trace metals in bottom sediments during the second year of monitoring
[PB84-169465] 16 p2534 N84-26269
Determination of thermodynamic characteristics of the barium dissolution process in liquid iron
[BLL-M-35634-(5828.4)] 22 p3551 N84-32481

BARIUM COMPOUNDS
NT BARIUM TITANATES
Study of intermetallic compounds in ternary systems Al-Ba-Nd and Al-Ba-Yb
[BLL-M-35387-(5828.4)] 08 p1129 N84-17343

BARIUM ION CLOUDS
Colored bubbles: An experiment for triggering equatorial spread F 05 p0640 N84-14212
Plasma composition and structure characterization of an ionospheric barium cloud 05 p0640 N84-14213
Creating unstable velocity-space distributions with barium injections 05 p0640 N84-14214
Sequential barium releases to study tangential versus rotational discontinuities in auroral arcs
05 p0640 N84-14215
The Active Magnetospheric Particle Tracer Explorers (AMPTE) program 05 p0641 N84-14216
Plasma confinement and interaction experiments — Active Magnetospheric Particle Tracers Explorers mission 05 p0641 N84-14218
On the linear stability of two-dimensional barium clouds. 1: The inviscid case
[AD-A141284] 18 p2880 N84-28285
Evolution of structure in the PLACES barium clouds
[DE84-010996] 20 p3242 N84-30583
Finite temperature effects on the evolution of ionospheric barium clouds in the presence of a conducting background ionosphere
[AD-A143592] 23 p3798 N84-34082

BARIUM TITANATES
Analysis of soldering-induced cracking of BaTiO3 ceramic capacitors
[DE83-013980] 02 p0200 N84-11304
Stress corrosion of ceramic materials
[AD-A136729] 10 p1467 N84-19581
A microstrip time delay circuit on barium tetratitanate
[AD-A138026] 12 p1811 N84-21807
Preliminary experiments on phase conjugation for flow visualization — barium titanate single crystals
[NASA-TM-83766] 21 p3498 N84-32169
Research and crystal growth on high dielectric constant materials for mm wave applications
[AD-A144412] 24 p3967 N84-35119

BAROCLINIC INSTABILITY
Mechanisms of monsoonal cyclogenesis
03 p0410 N84-12680
Baroclinic and barotropic instability with cumulus heating and tropical cyclogenesis 05 p0710 N84-14656
Baroclinic instability of atmospheric jets
06 p0877 N84-15704
Alternative experiments using the geophysical fluid flow cell
[NASA-CR-3766] 06 p0877 N84-15706
Observational evidence for an eddy-driven deep circulation in the North Atlantic
[AD-P002660] 11 p1690 N84-21025
Baroclinic instability in the stratosphere and mesosphere 17 p2683 N84-27082
The stability of atmospheric fields induced by localized topography and heat sources
[AD-A141357] 19 p3058 N84-29400
On the zonally averaged temperature in the Southern Hemisphere
[INPE-3139-PRE/528] 21 p3443 N84-31846
NASA/MSFC FY-84 Atmospheric Processes Research Review
[NASA-CP-2329] 24 p3923 N84-34829
Theoretical analyses of baroclinic flows
24 p3923 N84-34830
Theoretical flow regime diagrams for the AGCE
24 p3923 N84-34831
Numerical studies of baroclinic instability at small Richardson number 24 p3924 N84-34834
Laboratory studies of baroclinic instability at small Richardson number 24 p3924 N84-34835
The use of satellite data in understanding and predicting convective and large-scale dynamical processes
24 p3925 N84-34842
Mesoscale ageostrophic circulations associated with baroclinic jet streaks 24 p3930 N84-34875
A note on the eigenvalues of a layered system
[INPE-3263-PRE/594] 24 p3950 N84-35007

BAROCLINIC WAVES
A comparison of baroclinic eddy heat-transport parameterizations to a simplified general circulation model 02 p0252 N84-11650
Acoustic-gravity wave dispersion relations in a baroclinic atmosphere
[PB83-248690] 04 p0565 N84-13726
Baroclinic Rossby wave signature in a general circulation ocean model
[AD-A132219] 04 p0569 N84-13750
Baroclinic waves in the atmosphere of Mars: Observations, linear instability, and finite-amplitude evolution 04 p0621 N84-14094
Baroclinic and barotropic instability with cumulus heating and tropical cyclogenesis 05 p0710 N84-14656
Alternative experiments using the geophysical fluid flow cell
[NASA-CR-3766] 06 p0877 N84-15706
Numerical simulation of the forcing of monsoon surges by mid-latitude baroclinic waves
[AD-A136274] 09 p1348 N84-18807
On the role of the baroclinic structure in extratropical cyclone development: A case study
11 p1684 N84-20987
Horizontal energy propagation in a baroclinic atmosphere with meridional and zonal structure
12 p1857 N84-22096
Some properties of transient phenomena in the extra-tropical region and their importance in the seasonal mean flow 12 p1859 N84-22112
Effect of asymmetric Ekman dissipation on finite-amplitude baroclinic disturbance
16 p2527 N84-26223
Quasigeostrophic movements in barotropic and baroclinic fluid 18 p2865 N84-28191
Observational and theoretical studies of the evolving structure of baroclinic waves 24 p3925 N84-34845

BAROCLINITY
Acoustic-gravity wave dispersion relations in a baroclinic atmosphere
[PB83-248690] 04 p0565 N84-13726
Estimation and prediction of oceanic eddy fields
[AD-P002652] 11 p1689 N84-21017
The effect of compact implicit differencing in a baroclinic primitive equations model 12 p1852 N84-22067
A study of the influence of extra-tropical latitude systems on the climatic variability in Northeast Brazil
[INPE-3264-PRE/595] 24 p3922 N84-34825

BAROMETERS
Investigation of the precision and utilization of a digital barometer based on the piezoresistive principle
02 p0233 N84-11531
A case study of gravity wave-convective storm interactions 03 p0408 N84-12659

BAROMETRIC PRESSURE
U ATMOSPHERIC PRESSURE

BAROTRAUMA
Ultrasonography of canine soft tissues during decompression 20 p3254 N84-30653

BAROTROPIC FLOW
Seasonal climate fluctuations as steady and periodic flow states of a barotropic model of planetary waves
10 p1542 N84-20108
Investigation of the equatorial orographic-dynamic mechanism applying the bounded derivative method
12 p1854 N84-22078
Two contrasting Northern Hemisphere winters: 1980 - 1981 and 1981 - 1982 12 p1855 N84-22087
Forced stationary solutions in a barotropic channel: Multiple equilibria and theory of nonlinear resonance
12 p1856 N84-22089
Horizontal energy propagation in a baroclinic atmosphere with meridional and zonal structure
12 p1857 N84-22096
Time dependent land and vegetation canopy temperatures 12 p1858 N84-22104
Shelf waves in presence of currents and stability of boundary currents 17 p2699 N84-27193
Supercritical regimes in Rossby wave propagation
17 p2700 N84-27197
Quasigeostrophic movements in barotropic and baroclinic fluid 18 p2865 N84-28191
On the stability of boundary-induced flows and modons
[PREPRINT-372] 21 p3403 N84-31591
Topographic effects of the Alaskan stream on shelf currents
[PB84-205137] 22 p3626 N84-32988
The use of satellite data in understanding and predicting convective and large-scale dynamical processes
24 p3925 N84-34842

BAROTROPISM
NT PLANETARY WAVES
Barotropic studies of stationary extratropical anomalies in the troposphere 16 p2527 N84-26224
Supercritical regimes in Rossby wave propagation
17 p2700 N84-27197

BARRED GALAXIES
Near-infrared surface photometry of barred spiral galaxies 17 p2775 N84-27618

BARRELS (CONTAINERS)
Helium/solid powder o-ring leakage correlation experiments
[DE83-013773] 01 p0090 N84-10588

BARREN LAND
Photo interpretation key to Michigan land cover/use
[E84-10048] 04 p0553 N84-13841
CONSERVB: A numerical method to compute soil water content and temperature profiles under a bare surface
[E84-10113] 13 p2005 N84-23006
A microwave systems approach to measuring root zone soil moisture
[E84-10114] 13 p2005 N84-23007

BARRENS
U BARREN LAND

BARRIER LAYERS
The role of potential barrier formation in spacecraft charging 08 p1118 N84-17269
Investigation of accelerated stress factors and failure/degradation mechanisms in terrestrial solar cells
[NASA-CR-173757] 18 p2870 N84-28222
High temperature electronics technology
[AD-A143571] 22 p3586 N84-32714

BARRIERS (LANDFORMS)
NT REEFS
Distance measurement to line of sight obstacles close to roads, a commission from Statens Vaeg och Trafikinstitute (VTI) — distance measuring with a continuous wave laser
[FOA-C-30333-E1] 08 p1165 N84-17586

BARS
NT ELASTIC BARS

Bond characteristics of epoxy coated reinforced bars
[PB83-205518] 01 p0058 N84-10379
On the dynamic fracture of bars, beams and plates
03 p0391 N84-12552
A three-dimensional photoelastic investigation of stresses and cracks formed in concrete around deformed reinforcing bars 06 p0862 N84-15621
Stress distribution in a cylindrical bar subjected to cyclic torsional loading
[AD-P002957] 14 p2199 N84-24197
Local bond stress-slip relationships of deformed bars under generalized excitations: Experimental results and analytical model
[PB84-192848] 20 p3204 N84-30355
The use of adhesive-bonded rivets to lessen the reductions in fatigue life caused by rivet holes
[ARL-STRUC-REPT-399] 24 p3887 N84-34617
A simulation process for determining reliability of cyclic random loaded structures
[AD-P003849] 24 p3939 N84-34936

BARS (LANDFORMS)
Experiments examining the shapes of isolated bars in comparison with those occurring in braided rivers
13 p2084 N84-23503

BARYCENTER
U CENTER OF GRAVITY

BARYONS
Baryon-antibaryon angular correlations in quark jets
[DE83-015923] 03 p0435 N84-12854
Cosmic ray antimatter and baryon symmetric cosmology
[NASA-TM-83958] 04 p0622 N84-14103
Mean field theory of the linear sigma-model: Chiral solitons
[DE84-002864] 08 p1229 N84-18034

BASALT
Ridges on basalt flows 13 p2081 N84-23484
Subalkaline basaltic magmatism of active ocean-continent transition zones
18 p2857 N84-28144
Age discrimination among basalt flows using digitally enhanced LANDSAT imagery — Saudi Arabia
[E84-10189] 21 p3430 N84-31760
Geochemistry, age and strontium composition of late tertiary and quaternary basalts and andesites in western Nevada and their relation to geothermal potential
[DE84-012404] 21 p3444 N84-31852

BASE FLOW
Numerical computation of base flow for a projectile at transonic speeds
[AD-A130293] 01 p0004 N84-10027
Fluid dynamic mechanisms and interactions within separated flows and their effects on missile aerodynamics
[AD-A130631] 01 p0079 N84-10514
Navier-Stokes computations of projectile base flow at transonic speeds with and without base injection
[AD-A135783] 09 p1252 N84-18176
Computation of viscous flow about advanced projectiles
[AD-A137935] 11 p1653 N84-20790

BASE HEATING
Calculation of shuttle base heating environments and comparison with flight data 01 p0023 N84-10145

BASE PRESSURE
Investigation of aerodynamics of non axisymmetric projectiles
[AD-A139107] 14 p2101 N84-23609
Base pressure measurements on a projectile shape at Mach numbers from 0.91 to 1.20
[AD-A141341] 18 p2789 N84-27699

BASES
Catalog of the Oak Ridge National Laboratory Meteorological Tape Library
[DE83-017493] 01 p0162 N84-11067
Microbial evaluation of some adhesive formulations and adhesive bases
[AD-A141659] 19 p2999 N84-29005

BASES (FOUNDATIONS)
U FOUNDATIONS

BASIC (PROGRAMMING LANGUAGE)
Data General Corporation ECLIPSE MV/8000, AOS/VS BASIC revision 2.20
[PB83-233452] 01 p0119 N84-10776
Convergent technologies AWS 267, CT BASIC Version 8.0 (Pre-Release)
[PB83-227306] 01 p0125 N84-10818
Burroughs Corporation B21-6T (512K), B20 BASIC Release 3.0 (Pre-Release)
[PB83-227298] 01 p0126 N84-10819
The TRW Datacom, AWS 267, TRW BASIC Version 8.0 (Pre-Release)
[PB83-227272] 01 p0126 N84-10821
The NRC Corporation, Office Systems division, WS 150 16Mb, NRC BASIC Release 3.0 (Pre-Release)
[PB83-227249] 01 p0126 N84-10824
Data General Corporation ECLIPSE C/350, MP/BASIC revision 2.00
[PB83-233478] 01 p0127 N84-10829
Multi-parametric data acquisition system with DC11-C interface towards PDP 11/34
[DE82-906300] 02 p0275 N84-11798
Digital Equipment Corporation VAX-11/750, VAX-11 BASIC V2.0
[PB83-233213] 02 p0275 N84-11801
Digital Equipment Corporation, PDP-11/24, PDP-11 BASIC-PLUS-2
[PB83-233205] 02 p0275 N84-11802
Computer Sciences Corporation UNIVAC 1100/80, CSTS BASIC - release BAS160
[PB83-237412] 02 p0276 N84-11807
NCR Corporation NCR 9300 ITX-BASIC release 1.1
[PB83-243410] 03 p0422 N84-12762
IBM Corporation IBM4341 IBM BASIC release 1.0
[PB82-240945] 04 p0583 N84-13852
Sperry Univac, Univac 1100/80, UBASIC/BBASIC level 9R1
[PB84-113901] 08 p1214 N84-17919
Honeywell Information Systems DPS 6/96 BASIC Interpreter Release 4.0
[PB84-139765] 11 p1710 N84-21149
Digital Equipment Corporation, VAX 11/730, VAX-11 BASIC V2.2
[PB84-149806] 12 p1885 N84-22291
Sperry Univac, OS/3 BASIC Version 9.0
[PB84-150218] 14 p2206 N84-24240
Burroughs Corporation B7800, Large Systems BASIC 3.4.1
[PB84-157379] 14 p2208 N84-24254
IBM Corporation, IBM 5360 model B24, SYSTEM/36 BASIC Release 1 (5727-BL1)
[PB84-157171] 14 p2208 N84-24255
IBM Corporation, IBM 4341, IBM BASIC/MVS release 1.0
[PB84-175611] 17 p2755 N84-27490
Burroughs Corporation B1000 system interactive, BASIC release 11.0
[PB84-180215] 20 p3275 N84-30794
Data General Corporation ECLIPSE MV/8000, MP-BASIC revision 3.00
[PB84-181361] 20 p3275 N84-30796
United Information Services, Inc. CDC Cyber 175, super BASIC version 1.0
[PB84-181387] 20 p3276 N84-30797
BASIC programs 2 23 p3762 N84-33847

BASINS
U STRUCTURAL BASINS

BATCH PROCESSING
Survey of radar Automatic Detection and Tracking (ADT)
[AD-A130358] 01 p0064 N84-10420
Computer center introductory reference manual for CDC 6000
[AD-A130941] 01 p0122 N84-10797
Computer program development specification for Ada integrated environment: MAPSE debugging facilities, B5-AIE(1).DBUG(1)
[AD-A134070] 05 p0727 N84-14771
The creation of the NLR benchmark package and the performance of two new CDC comuters with it
[NLR-MP-82015-U] 06 p0896 N84-15819
Data distribution in the NBS Automated Manufacturing Reseach Facility 12 p1891 N84-22315
A system for managing meteorological data
[INPE-3029-PRE/466] 17 p2733 N84-27373
Smoothing on the frequency domain
[INPE-3182-PRE/547] 21 p3471 N84-31997
GCKP84-general chemical kinetics code for gas-phase flow and batch processes including heat transfer effects
[NASA-TP-2320] 22 p3546 N84-32446

BATHOLITHS
The petrology and geochemistry of the Yerington Batholith and the Ann-Mason Porphyry Copper Deposit, Western Nevada 21 p3441 N84-31828

BATHS
NT SALT BATHS
The descaling of 3Cr12 steel
06 p0817 N84-15322

BATHYMETERS
Multi-temporal analysis of LANDSAT imagery for bathymetry
[AD-A130648] 01 p0100 N84-10652
Data validation and summary for the NRL remote sensing experiment: Phelps Bank, July, 1982. Part 2: Meteorology
[AD-A132105] 04 p0553 N84-13646
Multispectral Data Processing System (MDPS)
[AD-A133426] 06 p0896 N84-15816
NODC (National Oceanographic Data Center) inventory of XBT data along transects in U.S. Atlantic and Gulf coastal waters from NMFS/MARD ship of opportunity program for 1981
[PB84-122662] 08 p1197 N84-17802
Simulation of Thematic Mapper data for remote bathymetry
[AD-A136377] 09 p1337 N84-18728
Airborne lidar for oceanography and hydrology (FLOH)
[ESA-TT-799] 13 p1996 N84-22955
Coastal bathymetry and currents from LANDSAT data
17 p2718 N84-27303

BATHYMETRY
U BATHYMETERS

BATHYTHERMOGRAPHS
A bathythermograph to sound velocity profile program for the HP-41CV calculator, including a Northern Hemisphere salinity profile library
[AD-A130761] 01 p0111 N84-10720
Data validation and summary for the NRL remote sensing experiment. Phelps Bank, July 1982. Part 1: Hydrography
[AD-A132083] 05 p0697 N84-14575
Expendable bathythermograph (XBT) measurements in the Western Alboran Sea, October 1982
[AD-A133939] 06 p0884 N84-15748
Analyzing temperature data from XBT grid surveys
[AD-A140685] 17 p2737 N84-27388

BATTERIES
U ELECTRIC BATTERIES

BATTERY CHARGERS
Zinc/bromine prototype-batteries evaluation
[DE83-011861] 01 p0072 N84-10473
Charge characteristics of Ni/Fe traction cells
[DE83-014205] 03 p0367 N84-12389
Integral inverter/battery charger for use in electric vehicles
[NASA-CR-168177] 07 p1088 N84-17073
Chemically rechargeable battery
[NASA-CASE-NPO-16024-1] 13 p2007 N84-23020
Performance of the Lester battery charger in electric vehicles
[NASA-CR-173726] 18 p2833 N84-27982
Rechargeable zinc batteries
[DE84-008947] 20 p3179 N84-30192
Effect of charging methods on battery electrodes
[DE84-010287] 20 p3179 N84-30196
Test and evaluation of the Philips Model PE 1701 and Lester Model 9865 electric vehicle battery chargers
[DE84-901243] 21 p3394 N84-31541
Nickel cadmium charge control concepts — ampte cram 23 p3738 N84-33688
A battery charger and state of charge indicator
[NASA-CR-173961] 23 p3743 N84-33725

BATTERY SEPARATORS
U SEPARATORS

BAYARD-ALPERT IONIZATION GAGES
Investigation on low pressure limit of Bayard-Alpert gauge
[DE84-002578] 05 p0685 N84-14502

BAYES THEOREM
On two-stage bayes selection procedures
[AD-A130301] 01 p0136 N84-10890
Decentralized control of scheduling in distributed processing systems
[AD-A131548] 02 p0301 N84-11976
An empirical Bayes approach to spatial analysis
03 p0393 N84-12563
Spline classification methods
03 p0393 N84-12564
A general framework for learning curve reliability growth models
[AD-A132277] 04 p0546 N84-13596
Various solutions in multiple Bayesian's decision and multinormal estimation problems
[TR-78] 04 p0588 N84-13882
Bayes smoothing algorithms for segmentation of images modelled by Markov random fields
[AD-A133966] 05 p0734 N84-14817
Tailored testing theory and practice: A basic model, normal ogive submodels, and tailored testing algorithms
[AD-A133385] 06 p0897 N84-15824
On Bayes and empirical bayes rules for selecting good populations
[AD-A133336] 06 p0904 N84-15869
A Bayesian explanation of an apparent failure rate paradox
[AD-A134748] 08 p1223 N84-17987
The nonlinear filtering problem for the unbounded case
[AD-A136501] 09 p1376 N84-18985
Some alternatives to Bayes' rule
[AD-A135944] 09 p1383 N84-19033
Computing confidences in tactical rule-based systems by using Dempster-Shafer theory
[AD-A137274] 10 p1562 N84-20237

Multi-Bayesian estimation theory
[CSIR-TWISK-296] 11 p1712 N84-21160
Bayesian reliability test plans for one-shot devices
[AD-A138234] 12 p1896 N84-22350
Bayes least squares linear regression is asymptotically full Bayes: Estimation of spectral densities
[AD-A138351] 12 p1897 N84-22352
Axiomatic characterization and comparative analysis of preference on desirability and possibility
[AD-P002329] 14 p2189 N84-24120
Water mass classification in the North Atlantic using IR digital data and Bayesian decision theory
[AD-P003125] 16 p2534 N84-26266
Bayes-p* subset selection procedures for the best population
[AD-A140179] 16 p2551 N84-26367
Subset selection procedures: A review and an assessment
[AD-A140266] 16 p2551 N84-26368
Numerical methods for Bayes sequential decision problems
[AD-A140418] 16 p2551 N84-26369
Informative stopping rules
[AD-A140599] 17 p2758 N84-27507
Statistical tests for detecting crustal movements using Bayesian inference
[PB84-198811] 21 p3445 N84-31861
Bayesian models for response surfaces, 2: Estimating the response surface
[AD-A142768] 21 p3471 N84-32001
Bayesian models for response surfaces. 1: The equivalence of several models and their relationship to smoothing splines
[AD-A142843] 21 p3472 N84-32003
Sequential decision models in reliability
[AD-A144181] 24 p3911 N84-34770
A combined Bayes-sampling theory method for monitoring a Bernoulli process
[AD-P003840] 24 p3938 N84-34928

BAYESIAN STATISTICS
U BAYES THEOREM

BAYS (STRUCTURAL UNITS)
Mach 0.6 to 3.0 flows over rectangular cavities
[AD-A134579] 07 p0948 N84-16153
Acoustic environments for JPL shuttle payloads based on early flight data 10 p1512 N84-19898
On-site survey and analysis of pyrotechnic mixer bays
[AD-A139485] 14 p2132 N84-23779
Columbia: The first 5 flights entry heating data series. Volume 5: The side fuselage and payload bay door
[NASA-CR-171732] 22 p3541 N84-32416
Contamination control and cleanliness level integrity for the Space Shuttle Orbiter PLB, payloads and facilities at KSC 24 p3865 N84-34498

BAYS (TOPOGRAPHIC FEATURES)
NT CHESAPEAKE BAY (US)
NT DELAWARE BAY (US)
NT MONTEREY BAY (CA)
Remote sensing analysis of oil pollution in Augusta Bay, Sicily 03 p0400 N84-12616
Dynamic mass balance of PCB (polychlorinated biphenyls) and suspended solids in Saginaw Bay: A case study
[PB83-250308] 04 p0561 N84-13699
Coordination: Southeast Continental Shelf studies
[DE84-004165] 11 p1692 N84-21034
Biological processes in the water column of the South Atlantic Bight
[DE84-004336] 11 p1692 N84-21035

BBGKY HIERARCHY
Calculation of critical temperatures and correlation parameters in binary alloys by the method of BBGKI equations
[BLL-M-35200-(5828.4)] 01 p0042 N84-10272
Unified theory of plasma correlations
[AD-A131478] 02 p0296 N84-11938

BCAS
U BEACON COLLISION AVOIDANCE SYSTEM

BCC LATTICES
U BODY CENTERED CUBIC LATTICES

BCH CODES
BCH codes for large IC random-access memory systems
[NASA-CR-166549] 17 p2751 N84-27460

BCS THEORY
Far infrared studies on superconductors and heat-capacity studies on liquid crystals
[DE84-001105] 04 p0613 N84-14046

BEACHES
Computer-model results for the beach-escarpment-induced distortion of onshore wind flow at the northwest point of San Nicolas Island, California
[AD-A135952] 09 p1349 N84-18815

BEACON COLLISION AVOIDANCE SYSTEM
Traffic alert and collision avoidance system (TCAS): A functional overview of active TCAS I
[AD-A132281] 04 p0482 N84-13171

BEACONS
NT RADAR BEACONS
NT RADIO BEACONS
NT RADIO DIRECTION FINDERS
Preliminary studies of Solar Advance Observatory and Solar Beacon Facility
[NASA-CR-170937] 03 p0466 N84-13066
A review of underwater acoustic systems and methods for locating objects lost at sea
[NASA-TM-85727] 06 p0908 N84-15898

BEADS
Solid impingement erosion mechanisms and characterization of erosion resistance of ductile metals
[NASA-TM-83492] 03 p0352 N84-12287
Erosion of iron-chromium alloys by glass particles
[NASA-TP-2354] 19 p2993 N84-28965

BEAM CURRENTS
The Los Alamos free-electron-laser oscillator experiment: Plans and present status
[DE83-017290] 03 p0382 N84-12485
Measurements of the emittance and current density profile of the beam produced by the ATA injector
[DE83-016522] 03 p0434 N84-12848
The 83-inch cyclotron research program
[DE83-015827] 03 p0435 N84-12852
Developing a 500-eV proton beam
[DE83-012781] 03 p0439 N84-12880
A steady-state axisymmetric toroidal system
[IPPJ-643] 03 p0443 N84-12910
Rotating and propagating LIB stabilized by self-induced magnetic field
[IPPJ-640] 03 p0444 N84-12916
Light-ion-beam fusion
[DE83-018263] 03 p0448 N84-12944
Summary of the status of negative-ion-based neutral beams
[DE84-001326] 04 p0598 N84-13948
New concepts in particle acceleration
[DE83-017747] 04 p0600 N84-13961
Optical measurements of a large-scale laboratory Beam Plasma Discharge (BPD) 05 p0638 N84-14196
Beam Plasma Discharge (BPD) experiments in the laboratory 05 p0638 N84-14197
Initial experimental results from a laboratory size beam plasma discharge device 05 p0638 N84-14198
Theoretical treatment of the current neutralization of high intensity light ion beams in argon
[DE84-000118] 05 p0745 N84-14893
Beam current limitations due to instabilities in modified and conventional betatrons
[AD-A133337] 06 p0915 N84-15947
Performance of the intense pulsed neutron source accelerator system
[DE84-003607] 07 p1072 N84-16966
Preliminary experiments with a carbon fiber tuft cathode
[DE84-006296] 12 p1813 N84-21820
On the convective properties of the resistive hose instability in an intense relativistic electron beam
[AD-A137527] 12 p1902 N84-22386
RFQ development at LBL
[DE84-006762] 13 p2045 N84-23271
Energetic ion beam-plasma interactions
[AD-A140173] 16 p2558 N84-26412
Comparison of some SSC beam parameters for pp and anti pp
[DE84-010729] 20 p3293 N84-30908
A high current heavy ion beam transport experiment at LBL
[DE84-009225] 20 p3294 N84-30912

BEAM INJECTION
High charge picosecond pulses with a double gap subharmonic buncher
[DE83-011743] 01 p0143 N84-10939
Efficient radiation-hardened, 400- and 800-keV neutral-beam injection systems
[DE83-015691] 03 p0440 N84-12886
PR beam-pulse formation and control
[DE84-001354] 04 p0596 N84-13936
Summary of the status of negative-ion-based neutral beams
[DE84-001328] 04 p0598 N84-13948
Acceleration of heavy ions in the AGS and CBA
[DE83-017762] 04 p0600 N84-13963
Construction and operational experience of the tandem mirror experiment-upgrade (TMX-U)
[DE83-018181] 04 p0605 N84-13995
Experimental results on finite-beta limits and transport in the ISX-B Tokamak
[DE84-000258] 04 p0606 N84-14001
Active experiments in space — conferences
[ESA-SP-195] 05 p0634 N84-14172
VLF wave injections from the ground 05 p0634 N84-14173
Results from wave injection experiments on the Porcupine rocket 05 p0635 N84-14175
Observation of waves induced by an artificial ion beam in the ionosphere 05 p0635 N84-14176
Highlights of the electron beam experiments in space in Japan 05 p0637 N84-14191
A second kind of Beam-Plasma Discharge (BPD): Rocket and laboratory results 05 p0637 N84-14193
Plasma processes in the region of electron beam injection from a high altitude payload 05 p0637 N84-14194
Electron beam experiments aboard the Space Shuttle 05 p0638 N84-14195
Initial experimental results from a laboratory size beam plasma discharge device 05 p0638 N84-14198
Suprathermal electron tail distributions in a space-simulation beam plasma discharge 05 p0638 N84-14199
Modeling of beam-plasma discharge in the laboratory 05 p0638 N84-14200
Dynamics of quasineutral beams 05 p0639 N84-14201
Plasma jet effects on the ionospheric plasma 05 p0639 N84-14202
The experiment Phenomena Induced by Charged Particle Beams (PICPAB) on board Spacelab 1 05 p0641 N84-14220
Waves in Space Plasmas (WISP): A space plasma lab active experiment 05 p0642 N84-14223
Impurity poloidal asymmetries and plasma rotation in the PDX Tokamak 05 p0748 N84-14914
Effects of neutral beam injection on impurity transport in Tokamaks
[DE84-001857] 05 p0750 N84-14926
External injection into a high current modified betatron accelerator
[AD-A134694] 08 p1229 N84-18030
Optimized baffle and aperture placement in neutral beamlines
[DE84-003748] 09 p1388 N84-19062
Modified betatron accelerator studies
[AD-A137508] 10 p1576 N84-20329
A comment on atomic processes relevant to alpha particle diagnostics 11 p1736 N84-21323
Atomic hydrogen beam probing with spectroscopic technique 11 p1736 N84-21324
Plasma processes caused by an electron beam injected from a high altitude rocket probe. Part 1: Neutralization processes
[IWF-8302] 17 p2728 N84-27363
Plasma processes caused by an electron beam injected from a high altitude rocket probe. Part 2: Studies of beam-plasma discharge
[IWF-8303] 17 p2728 N84-27364
Observations of fast magnetospheric echoes of artificially injected electrons above an auroral arc
[BMFT-FB-W-84-014] 19 p3055 N84-29390
Steady-state solutions of propagating LIB with rotating motion
[IPPJ-672] 19 p3106 N84-29734
The effect of trapped electrons on the beam-induced current 2
[IPPJ-673] 19 p3106 N84-29736
A 6.5 Tesla SSC lattice example
[DE84-010719] 20 p3285 N84-30858
High-current, low-energy synchrotrons and compressor rings
[DE84-012104] 20 p3293 N84-30906
RFQ radial matching sections and fringe fields
[DE84-011408] 20 p3295 N84-30920
Impurity characteristics of TMX-U
[DE84-012413] 20 p3297 N84-30932
Design fabrication and testing of the BNL radio frequency quadrupole accelerator
[DE84-011915] 21 p3494 N84-32145
Pulsed high-current source of negatively charged hydrogen ions
[DE84-012989] 21 p3496 N84-32158
Proceedings of Collaborating Research Meeting on Particle-Beam Applications to Fusion Research
[IPPJ-678] 21 p3500 N84-32184
High power neutral beam heating on Doublet 3
[DE84-012471] 21 p3501 N84-32186
Investigation of neutral beam driven impurity flow reversal as an impurity control method in future Tokamaks
[DE84-008855] 21 p3501 N84-32191
Experiments on interaction of keV particle beams with the ionosphere
[AD-A143277] 22 p3623 N84-32957
Experimental investigation of certain beam transport issues in a pulsed transmission line linear accelerator
[DE84-011191] 22 p3654 N84-33164

Three chamber negative ion source
[DE84-014505] 23 p3823 N84-34243
Alpha-particle simulation using NBI beam and ICRF wave
[IPPJ-688] 23 p3827 N84-34270
BEAM INTERACTIONS
Search for doubly-charged negative ions via accelerator mass spectrometry
[DE83-014321] 01 p0036 N84-10243
The effects of beam-beam collisions on storage-ring peformance: A pedagogical review
[DE83-012773] 01 p0144 N84-10944
Analysis of beam interaction of the electrical thruster RIT 10 (particle emission) with surfaces
[DFVLR-FB-83-04] 02 p0185 N84-11202
Electron-ion collisions
[DE83-017211] 03 p0437 N84-12867
Effect of RF structure on cumulative beam breakup
[DE83-017302] 03 p0439 N84-12882
Wave and particle observations associated with the beam plasma discharge in a space simulation chamber
04 p0489 N84-13210
Colliding-beam-accelerator lattice
[DE83-017875] 04 p0614 N84-14050
Dissipative effects in the beam-beam interaction of intersecting storage rings
[DE84-004871] 09 p1388 N84-19064
Numerical and analytical studies of beam channel tracking
[AD-A139148] 14 p2222 N84-24332
Differential charge transfer and continuum electron capture studies for ions in atomic hydrogen
[DE84-009675] 19 p3102 N84-29708
Aperture studies of the BNL colliding beam accelerator with reduced superperiodicity
[DE84-002854] 19 p3103 N84-29713
Automatic beam centering at the SSC interaction regions
[DE84-010710] 20 p3292 N84-30902
Using ions to probe the transverse size of a bunch
[DE84-012772] 21 p3494 N84-32141
Future accelerators using micro-fabrication technology
[DE84-002692] 21 p3496 N84-32157
Dynamic resonances in the reaction of fluorine atoms with hydrogen molecules
[DE84-013240] 23 p3823 N84-34242
BEAM LEADS
Deployable beam flight experiment (MAST)
08 p1110 N84-17218
Erectable beam experiment 08 p1110 N84-17219
BEAM NEUTRALIZATION
Windows and mirrors needed for a laser-driven photoneutralizer
[DE83-013582] 03 p0380 N84-12473
Dynamics of quasineutral beams
05 p0639 N84-14201
Space experiments with particle accelerators (SEPAC). Science problems of SEPAC/Spacelab 1 mission
05 p0641 N84-14221
Theoretical treatment of the current neutralization of high intensity light ion beams in argon
[DE84-000118] 05 p0745 N84-14893
Energetic ion beam-plasma interactions
[AD-A133816] 05 p0749 N84-14918
Photodetachment neutralizer development. Laser-resonator study. Volume 1: Summary
[DE84-001682] 06 p0851 N84-15547
Beam front accelerators
[DE84-003709] 08 p1229 N84-18032
Generation of intense polarized beams by selective neutralization of negative ions
[DE84-007377] 15 p2405 N84-25437
BEAM PLASMA AMPLIFIERS
Studies of amplifier module in Delfin Facility for heating thermonuclear plasma 20 p3289 N84-30881
BEAM RIDER GUIDANCE
Target track and stabilization for manportable direct fire missiles
[AD-A136219] 09 p1271 N84-18306
Some aspects of guidance loop design for SAM systems 21 p3350 N84-31251
BEAM SPLITTERS
Feed system for the Metsaehovi cooled 75-95 GHz receiver
[REPT-S-146] 15 p2328 N84-24978
High energy channeling and its applications
[DE84-007251] 19 p3103 N84-29715
Practical problems with CO2 laser radar tests
[RAE-TRANS-2113] 22 p3600 N84-32804
BEAM SWITCHING
Approaches to optimization of SS/TDMA time slot assignment — satellite switched time division multiple access
[NASA-CR-168328] 07 p0963 N84-16243
Design of microwave beam-switching networks
[AD-A137240] 10 p1478 N84-19661
BEAM WAVEGUIDES
Investigations on the lock-in problem and the readout technique of laser gyros
[ESA-TT-773] 16 p2496 N84-26014
Conformal array compensating beamformer
[AD-D011198] 24 p3893 N84-34654
BEAMS
Nulling in array patterns with orthogonal analytic cancellation beams
[AD-A142719] 20 p3178 N84-30188
BEAMS (RADIATION)
NT ATOMIC BEAMS
NT ELECTRON BEAMS
NT ION BEAMS
NT LIGHT BEAMS
NT MOLECULAR BEAMS
NT NEUTRAL BEAMS
NT NEUTRINO BEAMS
NT NEUTRON BEAMS
NT PARTICLE BEAMS
NT PHOTON BEAMS
NT PROTON BEAMS
NT RADAR BEAMS
NT RELATIVISTIC ELECTRON BEAMS
Molecular-beam studies of photodissociation reactions
[DE83-015962] 02 p0228 N84-11492
Parametric acoustic array formation via weak collinear and noncollinear interaction in dispersive fluids
[AD-A133660] 05 p0675 N84-14436
Application of the density matrix multipole expansion to stark quantum beats from beam-foil-excited hydrogen atoms
[AD-A133603] 06 p0797 N84-15193
Adaptive arrays for multiple simultaneous desired signals
[AD-A133486] 06 p0824 N84-15373
Brighter H(-) source for the intense pulsed neutron source accelerator system
[DE84-003608] 07 p1072 N84-18965
Normalized emittance of SITEX negative ion source
[DE84-003285] 07 p1072 N84-16967
Cryogenically cooled broad-band GaAs field-effect transistor preamplifier
[DE84-004166] 10 p1487 N84-19722
Optical bistability based on self-focusing
14 p2237 N84-24424
Spiral Kicker for the beam abort system
[DE84-007267] 15 p2406 N84-25442
Off-axis coherently pumped laser
[NASA-CASE-GSC-12592-1] 18 p2845 N84-28065
Theoretical methods in the calculation of the bremsstrahlung recoil force in a nonequilibrium beam-plasma system
[AD-A142136] 19 p3089 N84-29609
In-line, concurrent electromagnetic beam analyzer
[AD-D011040] 19 p3102 N84-29704
Recommendations for on-site vibration standards
[DE84-011756] 20 p3181 N84-30207
X-ray beam finder
[DE84-011100] 20 p3294 N84-30916
Alignment of multistate laser amplifiers with periodic space filtration of beam 21 p3381 N84-31452
The use of overlapped subarray techniques in simultaneous receive beam linear arrays
[AD-P003501] 21 p3383 N84-31469
Antenna pattern characteristics of fine-steered pencil beams
[AD-P003516] 21 p3385 N84-31484
Short wavelength optics for future free electron lasers
[DE84-012316] 21 p3410 N84-31626
Laser beam duct pressure controller system
[AD-D011102] 22 p3601 N84-32811
Beam recombination via cylindrical mirror
[AD-D011104] 22 p3601 N84-32812
Angular resolution of coherent and noncoherent sources
[AD-A143287] 22 p3648 N84-33129
BEAMS (SUPPORTS)
NT CANTILEVER BEAMS
NT CURVED BEAMS
NT I BEAMS
Modifications of the boundary-element method for application to bending of layered composites
02 p0187 N84-11217
Wide flanged beams with improved properties
[BMFT-FB-T-83-082] 02 p0197 N84-11283
Design considerations for bearingless rotor hubs
[AD-A131660] 03 p0331 N84-12162
Calculation of forced response to base excitation using experimentally derived modal participation factors
03 p0340 N84-12205
On the dynamic fracture of bars, beams and plates
03 p0391 N84-12552
A thin-walled beam finite element
[TT-8302] 03 p0425 N84-12779
Buckling analysis of end restrained imperfect tubular beam columns 05 p0691 N84-14539
Bending of beams, plates and laminates: Refined theories and comparative studies
05 p0691 N84-14540
Wave attenuation in damped periodic structures
[AD-A133736] 05 p0693 N84-14550
Relationship of Benkelman beam deflection as measured by Florida method to those measured by AASHTO method T-256-77, P-13-79
[PB83-252973] 05 p0694 N84-14557
A periodically forced piecewise linear oscillator
06 p0856 N84-15577
The dynamic response characteristics of a viscoelastic beam on periodically-spaced, viscoelastic supports
06 p0862 N84-15619
Improved finite-difference vibration analysis of pretwisted, tapered beams
[NASA-TM-83549] 07 p1015 N84-16588
Erectable beam experiment 08 p1110 N84-17219
The STEP/STACBEAM experiment technology development for very large solar array deployers
08 p1110 N84-17220
Technical theory of pneumatic beams --- inflated beams
[FOA-C-20504-E4] 08 p1172 N84-17634
Component mode synthesis and large deflection vibrations of complex structures --- beams and trusses
[NASA-CR-173338] 09 p1329 N84-18680
Bending of beams subjected to transverse impacts
[AD-A137840] 11 p1668 N84-20884
Optimization of space structures
14 p2245 N84-24480
The impingement of an underexpanded air jet on square section beams
[BU-291] 15 p2256 N84-24548
On some dynamic problems in layered elastic-viscoelastic beams 15 p2309 N84-24856
Investigation of a cylindrical inflated beam-column structure
[BU-301] 15 p2350 N84-25105
A modified modal method for nonlinear dynamic analysis of structures 16 p2501 N84-26052
Boundary condition and strain-rate effects on the response of blast-loaded beams
[AD-A140428] 16 p2502 N84-26061
Deflection and vibration in shear-deformable beams and laminated composites made of bimodular and multimodular materials 16 p2503 N84-26066
Dynamic response of rotating beams with nonconstant angular velocity 16 p2503 N84-26067
Application of micropolar elasticity to the finite element continuum analysis of articulated structures
17 p2679 N84-27064
Analysis of lateral and torsional vibration characteristics of beams and shafts with end located rotational masses
[NASA-TM-84593] 17 p2679 N84-27065
Consistent hydrodynamic mass for parallel prismatic beams in a fluid-filled container
[DE84-010381] 18 p2853 N84-28116
The statistical theory of the fracture of fragile bodies. Part 2: The integral equation method
[NASA-TM-77449] 19 p3035 N84-29250
A numerical scheme for the identification of hybrid systems describing the vibration of flexible beams with tip bodies
[NASA-CR-172388] 19 p3095 N84-29655
Tensile crack exposure tests. Statistical analysis of the long-term durability of series B beams
[AD-A141955] 20 p3201 N84-30335
A finite element model for the analysis and optimal design of beams and plates with variable flexural rigidity
21 p3417 N84-31668
Combined experimental/analytical modeling using component mode synthesis
[DE84-013147] 21 p3423 N84-31715
User's guide: Computer program for analysis of two-dimensional beam-columns with nonlinear supports (CBNTBM)
[AD-A143170] 21 p3466 N84-31974
Supersonic metal cluster beams
[DE84-012976] 22 p3556 N84-32516
Parameter estimation for the Euler-Bernoulli-beam
[NASA-CR-172417] 22 p3645 N84-33107
BEAMSHAPING
U COLLIMATION
BEARING (DIRECTION)
Dynamic pulse buckling, theory and experiment. Handbook
[AD-A130910] 01 p0095 N84-10621
Spatiotemporal characteristics of visual localization
[AD-A133952] 06 p0888 N84-15770
Efficiency comparison of quasi-optimum direction finding algorithms used for point sources of signals
17 p2633 N84-26844

Determining orientation of solid object
17 p2642 N84-26907
US Navy hindcast spectral ocean wave model climatic atlas: North Atlantic Ocean
[AD-A141810] 20 p3250 N84-30627
A finite element method for treating nearly one way wave propagation
[DE84-010294] 20 p3290 N84-30889

BEARING ALLOYS
Wear damage to materials — tribology
14 p2126 N84-23747
Status of understanding for bearing materials
15 p2342 N84-25060

BEARINGLESS ROTORS
Design considerations for bearingless rotor hubs
[AD-A131660] 03 p0331 N84-12162

BEARINGS
NT ANTIFRICTION BEARINGS
NT BALL BEARINGS
NT FOIL BEARINGS
NT GAS BEARINGS
NT JOURNAL BEARINGS
NT LIQUID BEARINGS
NT MAGNETIC BEARINGS
NT ROLLER BEARINGS
Process development of making bearings and bushings from continuous-cast SAE 660 bronze alloy plate
[DE83-014234] 01 p0057 N84-10374
Special cases of friction and applications
[NASA-TM-83523] 02 p0229 N84-11500
Unidirectional flexural pivot
[NASA-CASE-GSC-12622-1] 03 p0383 N84-12492
A magnetically suspended linearly driven cryogenic refrigerator 06 p0820 N84-15345
Interactive mechanisms of sliding-surface bearings
[AD-A133127] 06 p0852 N84-15556
Surface topographical changes measured by phase-locked interferometry
[NASA-CR-3757] 07 p1074 N84-16984
Effects of bearing deadbands on bearing loads and rotor stability
[NASA-CR-170986] 10 p1501 N84-19814
Prediction of critical speeds, unbalance and nonsynchronous forced response of rotors
10 p1515 N84-19918
Plane motion of solid body on rough surface of annular bearing rotating about its axis perpendicular to plane of motion 13 p1973 N84-22801
Measurements of elastohydrodynamic film thickness, wear and tempering behavior of high pressure oxygen turbopump bearings
[NASA-CR-171008] 13 p1997 N84-22960
Status of understanding for bearing materials
15 p2342 N84-25060
A rear engine without joints and pillows
[MBB-UD-383-83-O] 16 p2563 N84-26441
Subharmonic vibrations of rotor mounted in rolling bearings 17 p2649 N84-26943
Current status of an organic Rankine cycle engine development program 18 p2872 N84-28230
Mode 2 fatigue crack growth specimen development
[NASA-TM-83722] 19 p3034 N84-29248
Summary of drive-train component technology in helicopters
[NASA-TM-83726] 20 p3195 N84-30294
Mechanical interactions of rough surfaces
[DE84-014097] 22 p3605 N84-32841
Production of extra-pure iron for cermet bearings
23 p3707 N84-33501
Review of LOX Bearing and Seal Materials Tester (BSMT) radial load system
[NASA-CR-171162] 23 p3756 N84-33810
Research study for effects of case flexibility on bearing loads and rotor stability
[NASA-CR-171147] 23 p3756 N84-33811
Seizing in friction of composite materials with differing phase compositions 24 p3868 N84-34517

BEAT
U SYNCHRONISM

BEAUFORT SEA (NORTH AMERICA)
Movement of satellite-tracked buoys in the Beaufort sea (1979-1981)
[AD-A133159] 07 p1041 N84-16748
Statistical aspects of ice gouging on the Alaskan Shelf of the Beaufort Sea
[AD-A134428] 08 p1196 N84-17798
Sedimentary facies on an ice dominated shelf, Beaufort Sea, Alaska 14 p2165 N84-23967
Quaternary sedimentation on the Alaskan Beaufort shelf: Sediment sources, glacioeustatism and regional tectonics 14 p2165 N84-23968
Method to estimate drag coefficient at the air/ice interface over drifting open pack ice from remotely sensed data 17 p2720 N84-27310

BED REST
Pharmacologic counter measures minimizing post-space flight orthostatic intolerance — bed rest, drug disposition, and physiological function
[NASA-CR-173861] 21 p3457 N84-31936

BEDROCK
NT BATHOLITHS
Structural variation of proterozoic dikes in central Superior Province: A possible reflection of post-Archean shield deformation 11 p1678 N84-20954
Venus: The nature of the surface from Venera panoramas 13 p2077 N84-23459
Crystallization of the Dufek intrusion, Antarctica
14 p2161 N84-23944
Geophysical investigations of the Dufek intrusion and the surrounding region 14 p2161 N84-23945
Euro-African MAGSAT anomaly-tectonic observations
15 p2355 N84-25129
Reduced to pole long-wavelength magnetic anomalies of Africa and Europe 15 p2355 N84-25132
Relation of MAGSAT anomalies to the main tectonic provinces of South America 15 p2356 N84-25137
Ellipsoidal magnetostatic shield
17 p2638 N84-26877
Petrology of basement rocks of the California continental borderline and the Los Angeles Basin
24 p3917 N84-34801

BEDS (GEOLOGY)
NT SALT BEDS
Sedimentology of the Horlick Formation (Lower Devonians), Ohio Range, Transantarctic Mountains
14 p2162 N84-23948
Aggradation and degradation at alluvial-channel beds
[PB84-201557] 22 p3615 N84-32905

BEDS (PROCESS ENGINEERING)
Fischer-Tropsch synthesis in slurry reactors: Summary and analysis of the state of the art
[CSIR-CENG-432] 04 p0493 N84-13234
Continuous chemical reaction chromatography
[DE84-004089] 10 p1456 N84-19509

BEECH AIRCRAFT
U BEECHCRAFT AIRCRAFT

BEECHCRAFT AIRCRAFT
Airborne laboratory measurement of aircraft performance and stability and control for light aircraft. Supplement
[AD-A131457] 02 p0181 N84-11179
Aircraft accident report. Midair collision: McDonnell-Douglas F-4C Beech D-55 Baron, Cherry Point, North Carolina, 9 January 1983
[PB84-910407] 22 p3533 N84-32368

BEHAVIOR
NT DECONDITIONING
NT HUMAN BEHAVIOR
The flexural behavior of PACSAT (passive communication satellite) in orbit
[AD-A131406] 02 p0184 N84-11195
Fatigue behavior of long and short cracks in wrought and powder aluminum alloys
[AD-A131324] 02 p0231 N84-11517
Behavioral and prenatal effects of 60-Hz fields
[DE84-001126] 05 p0712 N84-14664
The strength and behavior of steel fiber-reinforced concrete under combined tension-compression loading
[AD-A136124] 09 p1334 N84-18708
Biological effects of electric fields: An overview
[DE84-005888] 12 p1864 N84-22144
Behavioral biology of mammalian reproduction and development for a space station
[NASA-CR-173493] 13 p2019 N84-23092
The use of a small digital computer for on-line behavioral experiments
[AD-A138975] 13 p2025 N84-23126
Progress report abstracts, Oceanic Biology Program
[AD-A140840] 17 p2737 N84-27390
An instrumental conditioning method for establishing chronic arousal
[AD-A140808] 17 p2740 N84-27396
Symbolic knowledge processing for the acquisition of expert behavior: A study in medicine
[AD-A141835] 19 p3068 N84-29460
Abstracts of ARI research publications FY 1983
[AD-A141440] 19 p3115 N84-29796
Rat behavior in selection of negative stimulus: Pain or exposure to electromagnetic field
20 p3255 N84-30657
Vertebrate behavior and ecology
[DE84-007316] 20 p3257 N84-30673
USSR report: Life sciences. Biomedical and behavioral sciences
[JPRS-UBB-84-016] 20 p3257 N84-30675
Organophosphate toxicity: Genetics, receptors, and antidotes
[AD-A141059] 20 p3259 N84-30685
Transport behavior of multivalent beta aluminas
[AD-A142968] 21 p3370 N84-31382
USSR report: Life sciences. Biomedical and behavioral sciences
[JPRS-UBB-84-012] 21 p3454 N84-31916
Fatigue behavior of welded joints subjected to variable amplitude stresses
[PB84-207620] 22 p3612 N84-32888
An exploratory analysis of the relationship between media richness and managerial information processing
[AD-A143503] 22 p3674 N84-33293
Development of a general model of the car drivers eye movement sequences and effects of subject and environmental variables
[AD-A144180] 24 p3936 N84-34915

BELGIUM
SAR 580: Images for agricultural and forest survey. First results in middle Belgium 03 p0397 N84-12595
Interpretability of wetland on SEASAT-A imagery in the polderland of Flanders: A structural approach
03 p0397 N84-12597
Remote sensing and topographic maps — belgium
03 p0398 N84-12600
Inventory of Flemish forests using medium-scale Color Infrared (CIR) photography and CIR orthophotoplans as base for a forest management data bank
03 p0400 N84-12614
Space research in Belgium, 1982-1983
20 p3321 N84-31084

BELL AIRCRAFT
NT UH-1 HELICOPTER
NT XV-15 AIRCRAFT

BELLOWS
Bellows flow-induced vibrations
[NASA-TM-82556] 13 p1989 N84-22912
Protective telescoping shield for solar concentrator
[NASA-CASE-NPO-16236-1] 15 p2361 N84-25164
Low temperature rate controller
[AD-D011029] 19 p2982 N84-28897
Demountable coaxial electrical connector for in-line amplifiers
[AD-D011074] 19 p3017 N84-29128
Shoulder and hip joint for hard space suits and the like
[NASA-CASE-ARC-11534-1] 22 p3633 N84-33021

BENARD CELLS
A selection principle in Benard-type convection
[NASA-CR-173869] 21 p3398 N84-31559

BENCHES
U SEATS

BENDING
NT ELASTIC BENDING
Seismic behavior of steel bent-bracing system
[PB83-224840] 01 p0061 N84-10399
Limit analysis of plates by a finite element approach
01 p0093 N84-10604
Aeroelastic design considerations in the development of helicopters 02 p0171 N84-11126
The flexural behavior of PACSAT (passive communication satellite) in orbit
[AD-A131406] 02 p0184 N84-11195
Modifications of the boundary-element method for application to bending of layered composites
02 p0187 N84-11217
Microelectronic bending and pressure sensors
[BMFT-FB-T-83-100] 02 p0225 N84-11476
Bending of transversally loaded orthotropic rectangular and sector plates 03 p0387 N84-12520
Miniaturized disk bend tests of neutron-irradiated path A type alloys
[DE84-001277] 04 p0549 N84-13618
Bending of beams, plates and laminates: Refined theories and comparative studies
05 p0691 N84-14540
MIT miniaturized disk bend test
[DE84-001275] 05 p0694 N84-14554
Use of the disk bend test to assess irradiation performance of structural alloys
[DE84-001484] 06 p0806 N84-15255
Theoretical and experimental determination of stress-strain of high-pressure equipment
[BLL-M-35287-(5828.4)] 06 p0856 N84-15574
Nonlinear bending and collapse analysis of a poked cylinder and other point-loaded cylinders
[DE84-001853] 07 p1017 N84-16595
Strength of anchor bolts in masonry
[PB84-111160] 09 p1297 N84-18479
Gravitropism in leafy dicot stems
09 p1355 N84-18857
Measurement of thigmomorphogenesis and gravitropism by non-intrusive computerized video image processing
09 p1356 N84-18859
Biophysical mechanism of differential growth during gravitropism 09 p1356 N84-18861
Surface cracks in a plate of finite width under tension or bending
[NASA-CR-172309] 10 p1516 N84-19926

A critical evaluation of new plate theories applied to laminated composites
[AD-A137789] 11 p1668 N84-20883
An accurate and economical plate-bending hybrid finite element 11 p1712 N84-21163
Fracture mechanics evaluation of the static fatigue life of optical fibers in bending 11 p1727 N84-21265
Calculations of misfit dislocation and dangling bond densities in abrupt Hg sub (1-x) Cd sub x Te heterojunctions
[AD-A138241] 12 p1914 N84-22467
A discrete-element analysis for large deflection of thin plates: A combined effect of geometric and material nonlinearities 13 p2003 N84-22995
Stability of fuses under cyclic load 17 p2639 N84-26882
J-integral tearing instability analysis for 8-inch diameter ASTM A106 steel pipe
[AD-A142589] 20 p3153 N84-30023
Collapse of long stiffened circular cylinders under combined axial bending and pressure loading 23 p3759 N84-33825
How some test variables affect bending, tension, and compression values for particle panel products
[AD-A143627] 23 p3761 N84-33836
Surface property modification of silicon
[NASA-CR-173952] 23 p3788 N84-34023
Stability analysis of elastic-plastic rectangular plate with opening 24 p3958 N84-35062

BENDING FATIGUE
Bending fatigue of electron-beam-welded foils. Application to a hydrodynamic air bearing in the Chrysler/DOE upgraded automotive gas tubine engine
[NASA-TM-83539] 07 p1016 N84-16589

BENDING MOMENTS
Tests on steel I-beam columns subjected to thrust and biaxial bending
[CRIF-MT-157] 07 p1017 N84-16598
Body-freedom flutter of a 1/2-scale forward-swept-wing model, an experimental and analytical study
[NASA-CR-172324] 12 p1771 N84-21553
Improved compliant hydrodynamic fluid journal bearing
[NASA-CASE-LEW-13670-1] 13 p1997 N84-22959
Wave attenuation in periodic structures
[AD-A138924] 13 p2001 N84-22984
On the propagation of bending waves in a periodically stiffened panel
[FFA-TN-1984-12] 18 p2853 N84-28119
Verification of the plate element with bending (element 11) of the program OPTIMA
[IWECO-5074403-83-2] 18 p2854 N84-28121

BENDING VIBRATION
Investigation of the effect of blade sweep on rotor vibratory loads
[NASA-CR-166526] 09 p1256 N84-18196
Design considerations of platens for vibration testing
[AD-A135815] 09 p1332 N84-18699

BENDS (PHYSIOLOGY)
U DECOMPRESSION SICKNESS

BENTONITE
Formation of free hydrogen during radiolysis in a bed of clay
[DE83-017724] 03 p0350 N84-12275

BENZENE
Syntheeis and properties of trisubstituted trinitrobenzenes. TATB analogs
[AD-A131619] 02 p0203 N84-11322
Single-pulse coherent Raman spectroscopy in shock-compressed benzene
[DE83-014140] 02 p0219 N84-11433
Polymers of phosphonylmethyl-2,4- and -2,6-diamino benzenes and the like
[NASA-CASE-ARC-11506-1] 03 p0356 N84-12313
Development of a continuous monitor for detection of toxic organic compounds
[PB83-234922] 03 p0378 N84-12461
Theoretical and experimental studies of shock-compressed benzene and polybutene
[DE83-015884] 03 p0430 N84-12816
Investigation of sources, properties and preparation of distillate test fuels
[NASA-CR-168227] 04 p0508 N84-13332
Studies of Electron-Beam-Induced decomposition of benzene
[AD-A137241] 10 p1454 N84-19496
Fire resistant polymers based on 1-((dialkoxyphosphonyl)methyl)-2,4- and -2,6-diaminobenzenes
[NASA-CASE-ARC-11512-1] 11 p1637 N84-20702
Determination of the succinonitrile-benzene and succinonitrile-cyclohexanol phase diagrams by thermal and UV spectroscopic analysis
[NASA-TM-82561] 16 p2462 N84-25778
Synthesis and investigation of polyimidobenzimidazoles
[AD-A140184] 16 p2471 N84-25838
Exciplex ionic dissociation in non-polar solvent induced by multipolar salt complexes
[AD-A140919] 17 p2620 N84-26786
Laboratory evaluation of tunable atomic line molecular spectrometers for benzene analysis
[PB84-177765] 17 p2672 N84-27032

BENZENE POISONING
Industrial hygiene data for F-16 aircraft refueling inside closed aircraft shelters. Supplementary
[AD-A138364] 12 p1865 N84-22154

BERING SEA
Winter currents on the eastern Bering Sea shelf
[PB83-248823] 04 p0570 N84-13753
Sea level variations and ocean dynamics in the Aleutian Islands
[AD-A139421] 14 p2183 N84-24079
Radar altimetry over sea ice 17 p2719 N84-27309
Bering Air-Sea-Ice Study (BASICS), February and March, 1981
[PB84-196161] 22 p3615 N84-32903
Passive microwave characteristics of the Bering Sea ice cover during Marginal Ice Zone Experiment (MIZEX) West 23 p3773 N84-33917
Surface based brightness temperatures of sea ice in the Bering and Greenland Seas 23 p3773 N84-33918

BERYLLIUM
NT BERYLLIUM 9
NT BERYLLIUM 10
Materials research for advanced inertial instrumentation. Task 2: Gas bearing material development
[AD-A130471] 01 p0007 N84-10044
Comparison of compression properties and swelling of beryllium irradiated at various temperatures
[DE84-000597] 04 p0500 N84-13277
Further abbreviation of the machining schedule for producing surface-damage-free beryllium
[DOE/TIC-4500-REV-69] 06 p0814 N84-15297
Dynamic compressive strain rate tests on 2 types of beryllium
[DE84-006126] 11 p1635 N84-20691
Development of high strength braze joints in beryllium
[DE84-007243] 13 p1998 N84-22964
H Division materials physics
[DE84-007789] 15 p2304 N84-24826
Materials research for advanced inertial instrumentation. Task 2: Gas bearing material development
[AD-A140435] 16 p2446 N84-25690
Chemical vapor deposition and reactive diffusion of boron on beryllium
[AD-D011043] 19 p2995 N84-28976

BERYLLIUM ALLOYS
Performance and materials aspects of Ge:Be photoconductors
[NASA-CR-174470] 01 p0155 N84-11023
Superconducting ground state of a strongly interacting electron system: UBe13
[DE84-001708] 06 p0923 N84-16003
Thin film strain transducer
[NASA-CASE-WLP-10055-1] 18 p2838 N84-28015
Pressure-dependent resistive behavior of YbBe13
[DE84-010068] 22 p3555 N84-32514

BERYLLIUM COMPOUNDS
NT BERYLLIUM OXIDES

BERYLLIUM ISOTOPES
NT BERYLLIUM 9
NT BERYLLIUM 10

BERYLLIUM OXIDES
Properties of principal TL (thermoluminescence) dosimeters
[AD-A143635] 23 p3751 N84-33776

BERYLLIUM 9
An upper limit to the Beryllium abundance in the population 2 star HD 140283 from a high resolution IUE spectrum 24 p3974 N84-35167

BERYLLIUM 10
Radioactivities in returned lunar materials and in meteorites
[NASA-CR-175347] 07 p1090 N84-17089

BESSEL FUNCTIONS
Computation of Bessel functions of complex argument
[DE83-013528] 01 p0134 N84-10881
Computation of Bessel functions of complex argument and large order
[DE83-014463] 02 p0282 N84-11851
Computation of radiation in stratified media by Fast Fourier Transform (FFT)
[AD-A138647] 13 p1982 N84-22869

BETA FACTOR
Initial assessment of the MHD stability of TMX-U
[DE83-016521] 03 p0404 N84-12646
A steady-state axisymmetric toroidal system
[IPPJ-643] 03 p0443 N84-12910
Elimination of stochasticity in stellarators
[DE84-001560] 06 p0921 N84-15985
Experimental study of high beta toroidal plasmas
[DE84-004869] 07 p1078 N84-17006

BETA INTERACTIONS
U WEAK INTERACTIONS (FIELD THEORY)

BETA PARTICLES
Code BETAL to calculation Alpha/Beta activities in environmental samples
[JEN-549] 04 p0578 N84-13816
Theory of optical flashes
[DE84-001450] 04 p0622 N84-14106
Magnetic fluctuations in high-beta sub p Tokamak plasmas
[DE83-015872] 05 p0751 N84-14929
Steepest descent moment method for three-dimensional magnetohydrodynamic equilibria
[DE84-002993] 07 p1076 N84-16999
Electrode noise in beta aluminas
[AD-A134837] 08 p1152 N84-17497
Neoclassical current studies in high beta plasmas
[DE84-005052] 12 p1910 N84-22445

BETATRONS
Simulation studies on a novel betatron injection scheme
[DE84-001337] 04 p0598 N84-13946
A mathematical investigation of the induction acceleration of conductors
[AD-A133786] 05 p0741 N84-14870
Research on intense electron beams and applications
[AD-A134068] 05 p0743 N84-14882
Thermionic cathode, MITL (Magnetically Insulated Transmission Line) and auxiliary coils systems investigations for the modified betatron
[AD-A133757] 05 p0744 N84-14887
The effect of field index fluctuations on the dynamics of a high current electron ring in a modified betatron accelerator
[AD-A133089] 05 p0745 N84-14891
Dynamics of a high current electron ring in a conventional betatron accelerator
[AD-A133291] 06 p0914 N84-15945
Beam current limitations due to instabilities in modified and conventional betatrons
[AD-A133337] 06 p0915 N84-15947
External injection into a high current modified betatron accelerator
[AD-A134694] 08 p1229 N84-18030
Toroidal self-field corrections to the linear dispersion relation for the negative mass instability in a modified betatron
[AD-A135940] 09 p1377 N84-18995
The modified betatron accelerator experiment
[AD-A137447] 10 p1576 N84-20328
Modified betatron accelerator studies
[AD-A137508] 10 p1576 N84-20329
Flux diffusion and acceleration in a high current modified betatron
[AD-A141277] 18 p2931 N84-28584
A Bumpy Torus betatron
[AD-A141840] 19 p3107 N84-29742
Longitudinal and transverse instabilities in a high current modified betatron electron accelerator
[AD-A142822] 21 p3493 N84-32132
High-current betatron, phase 1
[AD-A143748] 23 p3824 N84-34252

BETHE-SALPETER EQUATION
Research in theoretical nuclear physics
[DE84-003442] 08 p1230 N84-18038

BIAS
NT RESPONSE BIAS
Racial bias and predictive validity in testing for selection
[AD-A131830] 03 p0416 N84-12722
A rectangular gate merged MOSBJT
[AD-A132450] 04 p0525 N84-13453
Processing phenomena and the dissociation between subjective and objective workload measures
[AD-A134050] 05 p0715 N84-14686
Passive source localization from spatially correlated angle-of-arrival data
[AD-A133141] 06 p0822 N84-15362
Basic research for the geodynamics program
[NASA-CR-175337] 07 p1032 N84-16699
Data set description and bias — in astronomy 09 p1408 N84-19197
Correction of data-quality induced bias 09 p1409 N84-19209
Bias in nonlinear regression
[AD-A139239] 14 p2218 N84-24308
Information from bias measurement — meteorological radar signals 18 p2868 N84-28327
HgCdTe surface and defect study program
[AD-A142342] 20 p3308 N84-31010

BIBLIOGRAPHIES
Aeronautical Engineering: A continuing bibliography with indexes (supplement 165)
[NASA-SP-7037(165)] 01 p0001 N84-10008

AgRISTARS documents tracking list report
[E84-10030] 01 p0100 N84-10647
Hydroacoustics research in Seattle, Washington, 1967 - 1981. An annotated bibliography
[PB83-220483] 01 p0111 N84-10722
Energy: A continuing bibliography with indexes, issue 38
[NASA-SP-7043(38)] 02 p0241 N84-11578
Bibliography of documents issued by the GAO (General Accounting Office) on matters related to ADP (Automatic Data Processing) January 1982 - December 1982
[PB83-238766] 02 p0273 N84-11788
Photovoltaics advanced research and development bibliography
[DE83-009399] 02 p0302 N84-11983
Aeronautical Engineering: A continuing bibliography with indexes (supplement 166)
[NASA-SP-7037(166)] 03 p0311 N84-12027
Bibliography of coefficient of friction literature relating to slip type accidents — slipping accidents
[PB83-243626] 03 p0359 N84-12334
Topically classified bibliography on shapes of falling drops, drops in electric fields and related topics
[AD-A131134] 03 p0371 N84-12417
Rising bubbles
[AD-A131572] 03 p0371 N84-12418
Pulsed power bibliography. Volume 2: Annotated bibliography
[AD-A131753] 03 p0379 N84-12468
Pulsed power bibliography. Volume 1: Indices
[AD-A131752] 03 p0379 N84-12469
Nondestructive evaluation publications, 1981
[PB83-239574] 03 p0386 N84-12517
Aerospace Medicine and Biology: A continuing bibliography with indexes (supplement 250)
[NASA-SP-7011(250)] 03 p0415 N84-12712
Bibliography on atomic processes in hot dense plasmas
[IPPJ-AM-29] 03 p0443 N84-12913
NASA patent abstracts bibliography. Section 1: Abstracts. A continuing bibliography
[NASA-SP-7039(23)-SECT-1] 03 p0458 N84-13017
NASA Patent Abstracts Bibliography. Section 2: Indexes. A continuing bibliography (supplement 23)
[NASA-SP-7039(23)-SECT-2] 03 p0458 N84-13018
Aeronautical Engineering, a continuing bibliography with indexes
[NASA-SP-7037(168)] 04 p0477 N84-13136
Aeronautical Engineering: A continuing bibliography with indexes (supplement 167)
[NASA-SP-7037(167)] 04 p0477 N84-13137
Technology for large space systems: A bibliography with indexes
[NASA-SP-7046(09)] 04 p0488 N84-13204
Annotated bibliography of battery evaluations
[DE84-000653] 04 p0527 N84-13486
Proceedings of the 3rd LAN-Transport Workshop. Report of the third workshop for local area network implementors of the NBS specifications of the International Standards Organization transport class 4 protocol: Special interest group on file transfer protocol
[PB83-251348] 04 p0555 N84-13657
Glaciological data: Permafrost. A bibliography, 1978 - 1982
[PB83-249730] 04 p0565 N84-13724
Aerospace Medicine and Biology: A continuing bibliography with indexes (supplement 251)
[NASA-SP-7011(251)] 04 p0572 N84-13767
Research activities that occurred in the Coordinated Science Laboratory for July 1, 1982 through Jun 30, 1983
[AD-A132132] 04 p0623 N84-14108
Fast convolution algorithms and associated VHSIC architectures
[AD-A133851] 05 p0674 N84-14432
Hundred years later: September 1883 - September 1983; annotated bibliography of the first Dutch North Pole expedition 1882-1883
[KNMI-83-02] 05 p0696 N84-14571
Bibliography of the climate of the Netherlands and atmospheric conditions in the Netherlands
[KNMI-164] 05 p0708 N84-14635
Human reactions to elf electric and magnetic fields: An annotated bibliography of current literature, 3rd edition
[PB83-259648] 05 p0714 N84-14679
FY 1983 scientific and technical reports, articles, papers and presentations
[NASA-TM-82547] 05 p0759 N84-14974
Information sources and services in astronomy, astrophysics, and related space sciences
05 p0762 N84-14998
Chemical vapor deposition of group IVB, VB, and VIB elements with nonmetals. A literature review
[PB83-225409] 06 p0802 N84-15228
Aerospace medicine and biology: A continuing bibliography with indexes (supplement 252)
[NASA-SP-7011(252)] 06 p0886 N84-15763
A literature survey of the electrical resistance and thermal properties of modern composites and of the fibers and matrices that constitute them
[FOA-C-20505-D6(F9)] 07 p0968 N84-16274
Aerospace Medicine and Biology: A continuing bibliography with indexes (supplement 253)
[NASA-SP-7011(253)] 07 p1047 N84-16790
Parallel algorithms in combinatorial optimization: An annotated bibliography
[MC-BW-189/93] 07 p1058 N84-16853
Scheduling theory since 1981: An annotated bibliography
[MC-BW-188/83] 07 p1068 N84-16934
Aeronautical engineering. A continuing bibliography with indexes, supplement 169, January 1984
[NASA-SP-7037(169)] 08 p1095 N84-17117
Biological Effects of Nonionizing Electromagnetic Radiation, volume 7, number 2-4, July - December 1982
[AD-A134674] 08 p1197 N84-17805
Rotary wing aircraft and technical publications of NASA, 1970 - 1982
[NASA-TM-85521] 08 p1239 N84-18102
Theory of image analysis and recognition
[AD-A135453] 08 p1240 N84-18106
Guide to the bibliographic format used by the Carbon Dioxide Information Center
[DE84-004109] 09 p1280 N84-18361
Compendium of abstracts on statistical applications in geotechnical engineering
[AD-A136355] 09 p1297 N84-18478
Radar chaff: A bibliography
[AD-A135928] 09 p1302 N84-18513
Earth Resources: A continuing bibliography with indexes, issue 40
[NASA-SP-7041(40)] 09 p1336 N84-18723
Aerospace bibliography, seventh edition
[NASA-TM-85438] 09 p1399 N84-19136
Scientific and technical information output of the Langley Research Center
[NASA-TM-85735] 09 p1399 N84-19137
Aeronautical engineering, a continuing bibliography with indexes
[NASA-SP-7037(171)] 10 p1419 N84-19279
The stability and dynamics of elastic structures and fluid flows
[AD-A137184] 10 p1491 N84-19750
IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study bibliography
[AD-A137327] 10 p1503 N84-19825
The Shock and Vibration Digest, volume 15, no. 7
[AD-A132576] 10 p1505 N84-19845
The Shock and Vibration Digest, volume 16, no. 1
[AD-A137502] 10 p1507 N84-19862
Energy: A continuing bibliography with indexes, issue 39
[NASA-SP-7043(39)] 10 p1528 N84-20011
Review of publications on the Dutch wind climate
[KNMI-TR-41(FM)] 10 p1539 N84-20081
Aeronautical Engineering: 1983 cumulative index
[NASA-SP-7037(170)] 10 p1546 N84-20133
Aerospace Medicine and Biology: A continuing bibliography with indexes (supplement 255)
[NASA-SP-7011(255)] 10 p1546 N84-20134
NASA patent abstracts bibliography. Section 1: Abstracts
[NASA-SP-7039(24)-SECT-1] 10 p1592 N84-20432
Patent abstracts bibliography, a continuing bibliography. Section 2: Indexes
[NASA-SP-7039(24)-SECT-2] 10 p1592 N84-20433
Simulation methodology
[AD-A137127] 10 p1592 N84-20436
A method for comparing the structure of a discipline to the structure of a bibliographic file for that discipline
10 p1593 N84-20443
Bibliography of Soviet Laser Developments, no. 62, November - December 1982
[AD-A137854] 11 p1663 N84-20851
Bibliography of Soviet Laser Developments, no. 61, September - October 1982
[AD-A137867] 11 p1663 N84-20852
Acid rain bibliography
[PB84-138940] 11 p1677 N84-20941
Checklist and bibliography of benthic marine macroalgae recorded from northern Australia. 1: Rhodophyta
[MRL-R-912] 11 p1692 N84-21039
Aerospace Medicine and Biology: 1983 cumulative index
[NASA-SP-7011(254)] 11 p1693 N84-21043
Aerospace medicine and biology: A continuing bibliography with indexes
[NASA-SP-7011(256)] 11 p1693 N84-21044
Bibliography and abstracts of papers pertaining to applied mathematics
[AD-A137823] 11 p1750 N84-21420
Mineralogic and petrologic studies of meteorites and lunar samples
[NASA-CR-175390] 11 p1756 N84-21478
Data reduction and analysis for ISEE-A and -B energetic particles flux experiment and ISEE-C electron and X-ray experiments
[NASA-CR-175220] 11 p1760 N84-21486
Aeronautical Engineering: A continuing bibliography, supplement 172
[NASA-SP-7037(172)] 12 p1763 N84-21492
Energy: A continuing bibliography with indexes, issue 40, January 1984
[NASA-SP-7043(40)] 12 p1837 N84-21977
Publications of the JPL Solar Thermal Power Systems Project, 1976 to 1983
[NASA-CR-173464] 12 p1842 N84-22011
Directory of research publications
[AD-A138224] 12 p1860 N84-22119
Aerospace Medicine and Biology: A continuing bibliography with indexes, supplement 257
[NASA-SP-7011(257)] 12 p1864 N84-22146
Cumulative reports and publications through 31 December 1983
[NASA-CR-172326] 12 p1876 N84-22226
COSMIC software catalog, 1984 edition
[NASA-CR-174576] 12 p1878 N84-22242
Guides to aerospace research and development in NATO countries. Bibliography
[AGARD-R-718] 12 p1920 N84-22509
Bibliography of Soviet Laser Developments, Number 63, January-February 1983
[AD-A138742] 13 p1995 N84-22948
Scientific activity in oceanography, 1979-1982
13 p2018 N84-23084
Bibliography on direct voice input and direct voice output
[BAE-BT-12363] 13 p2023 N84-23118
Bibliography of technical publications and papers, October 1982 - September 1983
[AD-A138907] 13 p2067 N84-23403
Infrared astronomy research and high altitude observations
[NASA-CR-173526] 13 p2070 N84-23413
Publications resulting from Infrared Astronomy Research and High Altitude Observations
[NASA-CR-173525] 13 p2070 N84-23414
Earth Resources: A continuing bibliography with indexes
[NASA-SP-7041(41)] 14 p2166 N84-23975
Index of air weather service technical publications
[AD-A139133] 14 p2179 N84-24054
Bibliography of the research staff of the UK Institute of Oceanographic Sciences, Bidston Observatory (1979-83)
[AD-A138597] 14 p2183 N84-24080
Aerospace Medicine and Biology: A continuing bibliography with indexes (supplement 258)
[NASA-SP-7011(258)] 14 p2184 N84-24068
Bibliography of the literature on optical storage technology
[PB84-150184] 14 p2204 N84-24227
Noise, A bibliography
[AD-A138896] 14 p2221 N84-24328
AGARD index of publications, 1980-1982
[ISBN-92-835-1462-9] 14 p2248 N84-24502
AGARD bulletin: Meetings, publications, membership
[AGARD-BUL-84/1] 14 p2252 N84-24527
Rapid solidification research on aluminum alloys at Delft University of Technology — bibliographies
15 p2295 N84-24771
Motion illness: A bibliography
[AD-A139342] 15 p2379 N84-25276
USAFSAM (USAF School of Aerospace Medicine) review and analysis of radiofrequency radiation bioeffects literature
[AD-A140023] 15 p2379 N84-25280
A sixth annotated bibliography of recent publications on data security and cryptography
[NPL-DITC-35/83] 15 p2385 N84-25305
Publications of the Jet Propulsion Laboratory 1982
[NASA-CR-173539] 15 p2417 N84-25510
SIRIUS: Bibliographic search and retrieval system
[INPE-2771-PRE/344] 15 p2417 N84-25512
Aeronautical Engineering, a continuing bibliography with indexes, supplement 173
[NASA-SP-7037(173)] 16 p2433 N84-25603
Aeronautical Engineering: A continuing bibliography with indexes, supplement 174
[NASA-SP-7037(174)] 16 p2433 N84-25604
Management. A continuing bibliography for NASA managers, with indexes
[NASA-SP-7500(18)] 16 p2561 N84-26429

A computer algorithm for correcting spelling and typographical errors in subject headings
16 p2566 N84-26463
An annotated bibliography covering generation and use of evaluated cross section uncertainty files
[BNL-NCS-51684] 16 p2566 N84-26465
The process of technological innovation: Reviewing the literature 16 p2566 N84-26466
Technical publications of the NASA Wallops Flight Facility, 1960 through 1983
[NASA-TM-84421] 16 p2566 N84-26467
Catalog of ESA publications in 1983
[ESA-SP-105] 16 p2567 N84-26470
Catalog of infrared observations including: Bibliography of infrared astronomy and index of infrared source positions
[NASA-RP-1118] 16 p2574 N84-26520
Support interference of wind tunnel models: A selective annotated bibliography
[NASA-TM-81909-SUPPL] 17 p2610 N84-26708
Aerospace Medicine and Biology: A continuing bibliography with indexes (supplement 259)
[NASA-SP-7011(259)] 17 p2743 N84-27415
Bibliography of Supersonic Cruise Research (SCR) program from 1960 to 1983
[NASA-RP-1117] 18 p2785 N84-27674
A bibliography of packet radio literature
[AD-A141299] 18 p2830 N84-27964
Pyrotechnic shock: A literature survey of the Linear Shaped Charge (LSC)
[NASA-TM-82583] 18 p2852 N84-28109
Aeronautical Engineering: A Continuing Bibliography with indexes (supplement 176)
[NASA-SP-7037(176)] 19 p2956 N84-28733
Bibliography of in-house and contract reports, supplement 12
[AD-A141778] 19 p3041 N84-28298
Aerospace Medicine and Biology: A continuing bibliography with indexes (supplement 260)
[NASA-SP-7011(260)] 19 p3064 N84-29440
Nonlaboratory techniques for the study of cognitive and decision-making processes: A description and selected bibliography
[AD-A141732] 19 p3067 N84-29458
Annotated bibliography of human factors laboratory reports (1945-1968): Supplement 4, 1979-1983
[AD-A142141] 19 p3071 N84-29481
Quarks
[TB-83-7] 19 p3100 N84-29694
Women in the sciences
[TB-83-8] 19 p3114 N84-29784
Abstracts of ARI research publications FY 1983
[AD-A141440] 19 p3115 N84-29796
A bibliography of planetary geology principal investigators and their associates, 1982 - 1983
[NASA-TM-86249] 19 p3121 N84-29840
High-temperature alloys: Theory and design
[DE84-010428] 20 p3154 N84-30029
Bibliography of Soviet laser developments, number 64, March -April 1983
[AD-A141906] 20 p3193 N84-30275
Publications — bibliographies
20 p3245 N84-30594
Aerospace Medicine and Biology: A continuing bibliography with indexes (supplement 261)
[NASA-SP-7011(261)] 20 p3259 N84-30683
Inverse scattering problem
[AD-A142634] 20 p3291 N84-30894
Selected bibliography of solar thermal literature. Volume 1: Bibliography
[DE84-011386] 20 p3315 N84-31052
Information Center Complex publications and presentations, 1971-1982
[DE84-010603] 20 p3315 N84-31055
Aerothermodynamic data base, phase C
[NASA-CR-173862] 21 p3351 N84-31259
A comprehensive guide to the literature on acoustic emission from composites
[DE84-011064] 21 p3358 N84-31296
Surface modification and coatings: A technical assessment
[DE84-012483] 21 p3372 N84-31396
Splash and spray from road vehicles and associated topics: A bibliography
[CAR-8425] 21 p3398 N84-31557
Earth resources, a continuing bibliography with indexes
[NASA-SP-7041(42)] 21 p3425 N84-31725
Annotated bibliography of global resources information systems related publications 21 p3428 N84-31746
Global resources information system
21 p3428 N84-31747
NASA patent abstracts bibliography, a continuing bibliography. Section 1: Abstracts (Supplement 25)
[NASA-SP-7039(25)-SECT-1] 21 p3516 N84-32272
Microgravity Science Applications Bibliography: 1984 revision
[NASA-TM-86651] 21 p3518 N84-32283
Selected bibliography of solar thermal literature. Volume 2: Indexes
[DE84-009363] 21 p3518 N84-32288
Publications of the Executive Office of the President, January 20, 1981 - March 31, 1984
[PB84-182328] 21 p3519 N84-32298
Aeronautical Engineering: A continuing bibliography with indexes (supplement 177)
[NASA-SP-7037(177)] 22 p3529 N84-32342
Aeronautical Engineering: A Continuing Bibliography with indexes
[NASA-SP-7037(178)] 22 p3529 N84-32343
Aerothermodynamic data base
[NASA-CR-171807] 22 p3541 N84-32415
Publications of the NASA space biology program for 1980 - 1984 — bibliographies
[NASA-TM-86857] 22 p3628 N84-32990
Aerospace Medicine and Biology: A continuing bibliography with indexes
[NASA-SP-7011(262)] 22 p3630 N84-33003
Matrix management in DoD: An annotated bibliography
[AD-A143316] 22 p3669 N84-33253
NASA Patents Abstracts bibliography: A continuing bibliography. Section 2: Indexes (supplement 25)
[NASA-SP-7039(25)-SECT-2] 22 p3669 N84-33257
Catalog of existing published periodicals of INPE, Volume 7
[INPE-2886-NTE/206] 23 p3834 N84-34320
Guide to technical documents. Volume 2: January 1983 through December 1983
[AD-A143596] 23 p3834 N84-34322
Laser damage and effects bibliography. Part 1: Journal literature through 1982
[AD-A144313] 24 p3908 N84-34755

BICARBONATES
U CARBONATES

BICRYSTALS
Deformation of bimetallic bicrystals of Alpha-Ti/Beta-Ti-13Mn
[AD-A140263] 16 p2469 N84-25822
Electronic properties of grain boundaries in GaAs: A study of oriented bicrystals prepared by epitaxial lateral overgrowth
[AD-A144358] 24 p3967 N84-35118

BIFURCATION (MATHEMATICS)
U BRANCHING (MATHEMATICS)

BIGHORN MOUNTAINS (MT-WY)
Preliminary geologic/spectral analysis of LANDSAT-4 Thematic Mapper data, Wind River/Bighorn basin area, Wyoming 20 p3213 N84-30413

BIGHTS
U BAYS (TOPOGRAPHIC FEATURES)

BIHARMONIC EQUATIONS
Positive biharmonic functions
04 p0575 N84-13786

BILLETS
Ultrasonic billet testing equipment for surface defects
[BMFT-FB-T-83-192] 07 p1014 N84-16576

BIMETALS
Mechanistic studies related to the metal catalyzed reduction of carbon monoxide to hydrocarbons
[DE84-007963] 15 p2288 N84-24729
Analysis of fracture modes during extrusion and drawing of bimetal rods or wire
[DE84-009849] 20 p3157 N84-30051

BINARY ALLOYS
Calculation of short-range-order structures in Cu-14.5 percent (atom.) Al
[BLL-M-35115-(5828.4)] 01 p0152 N84-10997
Determination of composition profile for isomorphic binary alloys
[INPE-2813-RPE/438] 02 p0193 N84-11251
Modeling binary-alloy solidification processes: Numerical implementation
[DE84-001587] 04 p0501 N84-13284
Analytical and numerical solution for a solidifying liquid alloy slab 06 p0927 N84-16025
Determination of systems suitable for study as monotectic binary metallic alloy solidification models
06 p0931 N84-16050
TDPAC (Time Differential Perturbed Angular Correlations) study of liquid and amorphous se sub (1-x)Te sub x alloys
[AD-A135588] 09 p1279 N84-18353
Analysis and calculation of macrosegregation in a casting ingot, exhibits C and E
[NASA-CR-171030] 14 p2127 N84-23752
Separation processes during binary monotectic alloy production
[NASA-TM-82579] 15 p2295 N84-24773
Computerized version of the summary of binary phase diagrams
[DE84-009405] 15 p2299 N84-24800
The effect of gravity on the solidification of immiscible alloys — conference
[ESA-SP-219] 17 p2612 N84-26719
Thermodynamics of the decomposition of liquid alloys
17 p2612 N84-26721
Space results on the solidification of immiscible alloys
17 p2612 N84-26722
Preparation of dispersion alloys: Component separation during cooling and solidification of dispersions of immiscible alloys 17 p2613 N84-26725
Process for the epitaxial deposition of III-V compounds utilizing a binary alloy as the metallic source
[AD-D011097] 22 p3664 N84-33229
Electrical conductivity in random alloys
[DE84-701207] 24 p3884 N84-34611

BINARY CODES
Sodium heat transfer system modeling
[DE84-002051] 07 p1004 N84-16509
Cogeneration computer model assessment: Advanced cogeneration research study
[NASA-CR-173453] 12 p1841 N84-22006
Trends in convolutional coding
13 p1976 N84-22830
The Record of Electrical and Communication Engineering Conversazione Tohoku University, volume 52, no. 4
[ISSN-0385-7719] 13 p2039 N84-23228
Transmitting two-level balanced code within the bandwidth of straight binary code-transmission
13 p2039 N84-23231
Effects of NRZ-M modulation on convolutional codes performance 16 p2479 N84-25894
New short constraint length, rate 1/N convolutional codes which minimize required E sub b/N sub o for given bit error rate 16 p2479 N84-25895

BINARY DATA
Efficient sequential designs with binary data
[AD-A142904] 21 p3473 N84-32008

BINARY DIGITS
Impossibility of distributed consensus with one faulty process
[AD-A132503] 04 p0580 N84-13823
Comment on graphical methods for assessing logistic regression models by Landwehr, Pregibon and Shoemaker
[AD-A135684] 09 p1383 N84-19031
Efficient sequential designs with binary data
[AD-A142904] 21 p3473 N84-32008

BINARY FLUIDS
The shock wave structure in one-component gas and in binary gas mixture
[ISSN-0208-5658] 03 p0370 N84-12407
Shock structure near a wall in pure inert gas and in binary inert gas mixtures 07 p1005 N84-16517
Preliminary performance estimates and value analyses for binary geothermal power plants using ammonia-water mixtures as working fluids
[DE84-006124] 11 p1674 N84-20921
Physical processes in fluids
[NASA-CR-170990] 12 p1814 N84-21827
Analysis of the transfer function model of tray-type binary distillation columns with liquid hydraulic delay
[RR-234] 13 p1975 N84-22816
Light scattering measurements of critical fluctuations in an optically thin binary liquid sample
17 p2765 N84-27559
Sperry Low Temperature Geothermal Conversion System, Phase 1 and Phase 2. Volume 3: Systems description
[DE84-008042] 18 p2876 N84-28260

BINARY INTEGRATION
Program for a constructive physics
[DE84-005425] 12 p1916 N84-22486
Method of acceleration of arithmetic calculations
24 p3941 N84-34949

BINARY MIXTURES
NT BINARY FLUIDS
NT EUTECTIC ALLOYS
NT EUTECTICS
Thermodynamic properties for natural gas binaries
[PB83-228403] 01 p0157 N84-11031
Prediction of multicomponent liquid-mixture viscosity from binary thermodynamic data
[DE83-011934] 04 p0536 N84-13524
Investigations on the system boron-carbon silicon
[NASA-TM-77375] 09 p1275 N84-18324
Theoretical predictions for the phase stability of dense binary mixtures 13 p2072 N84-23428
Modeling binary alloy solidification processes
[ORNL/CSD-117] 16 p2464 N84-25790
Excitation of sound by light 20 p3285 N84-30863

Multicomponent diffusion under general chemical potential gradients
[DE84-010830] 22 p3548 N84-32458
Maximum supercooling in liquid 3He-4He mixtures near the tricritical point
[DE84-010076] 22 p3665 N84-33232

BINARY STARS
NT COMPANION STARS
NT DWARF NOVAE
NT ECLIPSING BINARY STARS
NT SYMBIOTIC STARS
HEAO 1-A1 observations of AM Herculis and related objects
[NASA-CR-170907] 01 p0164 N84-11077
Circinus X-1: A laboratory for studying the accretion phenomenon in compact binary X-ray sources
[NASA-TM-85095] 01 p0165 N84-11083
A search for radio pulsars in the Northern sky: Discovery of a pulsar in a unique binary system
03 p0462 N84-13040
Observation of winds in cool stars
03 p0468 N84-13084
Studies of cataclysmic variables
04 p0619 N84-14084
Theory of optical flashes
[DE84-001450] 04 p0622 N84-14106
K-type overcontact binaries 05 p0763 N84-15003
The structure and evolution of interacting binary galaxies 05 p0763 N84-15004
Ambipolar diffusion in interstellar clouds: One-dimensional, isothermal collapse
06 p0939 N84-16099
International Ultraviolet Explorer observations of Wolf-Rayet binaries: Wind structures
[NASA-CR-175235] 07 p1089 N84-17081
Clustering properties of stars outside the galactic disk
09 p1408 N84-19198
A study of the wake-like distortions in the light curves of RS CVN stars by means of time analysis
09 p1409 N84-19213
Bias in polarimetric estimators — binary stars
09 p1412 N84-19235
Circular polarimetry of the magnetic compact binary AM Herculis 09 p1414 N84-19251
Computer simulations of gravitational encounters between pairs of binary star systems
10 p1595 N84-20456
International ultraviolet explorer observations of Wolf-Rayet binaries: Wind structures
11 p1757 N84-21467
V 505 Monocerotis: New binary shell star
15 p2423 N84-25553
A search for X-ray polarization in cosmic X-ray sources — binary X-ray sources and supernovae remnants
[NASA-CR-173635] 17 p2781 N84-27657
The determination of frequencies and mass characteristics of binary stars in open clusters
23 p3839 N84-34355
The structure, internal kinematics and dynamics of open star clusters 23 p3839 N84-34357
IUE impact on the studies of the Zeta Aur, Algol and W Ser interacting binary systems
24 p3971 N84-35142
Rotational modulation of spots and plages on RSCVn stars 24 p3978 N84-35196
Models for the active and quiescent regions on the RS CVN-type system 2 Pegasi (HD 224085)
24 p3978 N84-35197
UV and optical observations of the novalike object V3885 SGR 24 p3979 N84-35207
UV and optical spectroscopy of W Serpentis objects
24 p3980 N84-35212
Evidence for variations in the phase-dependent ionization structure of the stellar wind in Vela X-1
24 p3981 N84-35220
IUE observations of the X-ray binary A0538 66: Recent results on a remarkable recurrent
24 p3981 N84-35221
Phase-dependent stellar wind absorptions in interacting Wolf-Rayet binaries 24 p3982 N84-35233

BINARY SUMMATORS
U ADDING CIRCUITS

BINARY SYSTEMS (DIGITAL)
U DIGITAL SYSTEMS

BINARY SYSTEMS (MATERIALS)
NT BINARY ALLOYS
NT BINARY FLUIDS
NT BINARY MIXTURES
NT EUTECTIC ALLOYS
NT EUTECTICS
Solidification of aluminum and aluminum alloys at high levels of undercooling 03 p0351 N84-12286
New developments and opportunities for NMR in metal-hydrogen systems
[DE83-017696] 03 p0437 N84-12864
Muon spin relaxation in ferromagnetic PdMn
[DE83-012659] 03 p0453 N84-12979
A clocking discipline for two-phase digital integrated circuits 05 p0677 N84-14455
Observations on the vanadium-nitrogen system and on pure metallic vanadium
[CSIR-TRANS-1708] 06 p0805 N84-15243
Characterization of high temperature electrically conducting oxides
[DE84-002887] 08 p1236 N84-18076
Recent and planned developments at the Goddard Space Flight Center in thermal control technology
10 p1440 N84-19402
New materials for infrared transmitting electrooptic filters
[AD-A139272] 14 p2224 N84-24349
Experimental study of immiscibility in metallurgical systems
[BLL-M-35553-(5828.4)] 17 p2821 N84-26775
Sperry Low Temperature Geothermal Conversion System, Phase 1 and Phase 2. Volume 3: Systems description
[DE84-006042] 18 p2876 N84-28260
Application of the finite compartment model of carbon adsorption to binary systems
[AD-A141483] 19 p2988 N84-28932
Measure of mass flow rate in gas-solid two phase fluids; application to pneumatic tranaport
21 p3403 N84-31590
Two phase system; Interfacial turbulence
[AD-A143182] 22 p3593 N84-32754

BINAURAL HEARING
Perception of binaural temporal shifts
18 p2898 N84-28387
Communications biophysics 22 p3684 N84-33362

BINDERS (ADHESIVES)
U ADHESIVES

BINDERS (MATERIALS)
NT PROPELLANT BINDERS
NT SOLID ROCKET BINDERS
Investigations into the burning-out of organic substances in the ceramic body
[NASA-TM-77065] 01 p0049 N84-10315
Method of manufacturing ceramic shaped articles
[NASA-TM-77242] 01 p0057 N84-10370
Research into the thermal decomposition of selected energetic material candidates (Project order ATL-2-094)
[AD-A138730] 13 p1966 N84-22770
Fuel-resistant coating and binders for porous friction surface pavements: Tests and analyses
[AD-A139865] 15 p2317 N84-24907

BINDING
Bilateral carotid ligation and effects of electromagnetic field on conditioned reflex retention and cerebral nucleic acid levels 20 p3258 N84-30677

BINOCULAR VISION
Preliminary experience with a stereoscopic video system in a remotely piloted aircraft application
[NASA-TM-84909] 13 p1931 N84-22557
PRISM: A practical real-time imaging stereo matcher
[AD-A142532] 20 p3259 N84-30686
Nonlinear dynamics of multi-channel binocular vision
[AD-A142600] 20 p3260 N84-30689

BINOMIALS
On using selection procedures with binomial models
[AD-A135275] 08 p1219 N84-17957
Inspection errors in link sampling
[AD-A135636] 09 p1382 N84-19029
Estimating network reliability with accelerated convergence rates on error bounds
[AD-A139841] 15 p2397 N84-25383
Regression methods for binomial and Poisson distributed data
[DE84-009714] 18 p2927 N84-28564

BIOACOUSTICS
Progress report abstracts, Oceanic Biology Program
[AD-A140840] 17 p2737 N84-27390

BIOASSAY
Evaluation of motor vehicle and other combustion emissions using short-term genetic bioassays
[PB83-233270] 01 p0112 N84-10731
Bioassay of particulate organic matter from ambient air
[PB83-239731] 02 p0267 N84-11754
Phytochrome from green plants: Assay, purification, and characterization
[DE83-017447] 03 p0414 N84-12710
Calibration of laboratory bioassays with results from microcosms and ponds
[DE83-017224] 04 p0560 N84-13692
A preliminary survey of plankton and periphyton in the Turn Barge Canal and basin area of Kennedy Space Center, Florida 06 p0928 N84-16027
Manual of analytical methods for radiobioassay
[DE84-003978] 08 p1126 N84-17318
Bioassay, isolation and studies on the mechanism of action of neurite extension factor
09 p1359 N84-18881
Thirteenth Gagarin Conference
12 p1865 N84-22151
Exploration of dose-response techniques with some applications to a simulation problem
[AD-A138029] 12 p1880 N84-22252
The biochemistry and physiology of bacterial adhesion to surfaces
[AD-A138271] 13 p2019 N84-23094
Nucleic acid content of canine liver during long-term experimental hypokinesia 15 p2377 N84-25267
Mouse adrenal corticosterone content during prolonged exposure to high-intensity stationary magnetic field
15 p2378 N84-25269
Methane producing bacteria: Immunological characterization 19 p3084 N84-29436
Current methods of evaluation of bone mineral content 23 p3807 N84-34142

BIOASTRONAUTICS
Birth of space plant growing
[NASA-TM-77244] 07 p1042 N84-16756
Microgravity as an additional tool for research in human physiology with emphasis on sensorimotor systems
[ESA-BR-15] 09 p1362 N84-18900

BIOCHEMISTRY
NT BIOGEOCHEMISTRY
NT ENZYMOLOGY
NT PHYSIOCHEMISTRY
Evidence for a regulatory role of calcium in gravitropism 02 p0262 N84-11721
Intracellular calcium receptors: Calmodulin and related proteins 02 p0263 N84-11724
The Role of Oxygen Radicals in Biology and Medicine
[AD-A133053] 05 p0712 N84-14663
Activities of the National Chemical Research Laboratory
[CSIR-SR-CHEM-261] 06 p0796 N84-15188
Biological chemistry 06 p0796 N84-15190
Environmental behavior of Technetium-99
[DP-1644] 06 p0805 N84-15245
Metabolic disturbances in man in an environment with low ammonia level and their correction by graded physical exercise 07 p1045 N84-16780
European Scientific Notes, volume 37, numbers 10/11
[AD-A134360] 07 p1084 N84-17053
Detection of elements in biomedical fluids by laser-induced breakdown spectroscopy
[DE84-003838] 08 p1126 N84-17319
Biochemical and histochemical adaptations of skeletal muscle to rat suspension 09 p1354 N84-18849
Prochloron 10 p1544 N84-20116
The Alpha-Helix Concept: Innovative utilization of the Space Station Program. A report to the National Aeronautical and Space Administration requesting establishment of a Sensory Physiology Laboratory on the Space Station
[NASA-CR-175436] 11 p1621 N84-20610
Hypnotics and air operations
11 p1697 N84-21072
The biochemistry and physiology of bacterial adhesion to surfaces
[AD-A138271] 13 p2019 N84-23094
Biochemical studies on the initiation of odor sensing
[AD-A129926] 14 p2184 N84-24085
Biochemical measurements of the human stress response
[AD-A139381] 14 p2184 N84-24089
USSR report. Life sciences: Biomedical and behavioral sciences
[JPRS-UBB-84-007] 14 p2250 N84-24515
Investigation of compounds essential for the origin of life
[NASA-CR-173538] 15 p2378 N84-25272
Microbiological and biochemical studies towards optimization of substrate utilization by methanogenic bacteria
[PB84-179753] 16 p2474 N84-25859
Hematologic and biochemical data on healthy individuals participating in a physical conditioning program
[AD-A140464] 16 p2536 N84-26278
USSR Report: Life sciences biomedical and behavioral sciences
[JPRS-UBB-84-013] 17 p2740 N84-27397
Genetic control and phenotypic correction of cellular immune response to H-antigen of Salmonella typhimurium 17 p2740 N84-27400
USSR report: Life sciences, biomedical and behavioral sciences
[JPRS-UBB-84-011] 18 p2894 N84-28364
Animal models of human performance: Structural and functional approaches to extrapolating from animal to man
[AD-P003292] 18 p2908 N84-28442

Psychological and biochemical effects of a stress management program
[AD-P003300] 18 p2909 N84-26447
Stress biochemistry: Non-invasive measurement techniques in military subjects
[AD-A141598] 19 p3065 N84-29447
European scientific notes, volume 38, no. 5
[AD-A141713] 21 p3518 N84-32285
Studies of the electric field distribution in biological bodies: Experimental dosimetry at radio frequencies
[AD-A143507] 22 p3628 N84-32992
USSR report: Life sciences. Biomedical and behavioral sciences
[JPRS-UBB-84-020] 23 p3805 N84-34128
USSR report: Chemistry
[JPRS-UCH-84-007] 24 p3867 N84-34508

BIOCONVERSION
Energy source today and tomorrow
[MBB-UR-602-82-O] 16 p2564 N84-26452

BIODEGRADABILITY
Waste water treatment with the aid of the addition of activated carbon into the aeration station and reactivation of the spent carbon
[BMFT-FB-T-83-186] 07 p1028 N84-16661

BIODEGRADATION
The mechanism of anaerobic (microbial) corrosion
[AD-A131223] 01 p0044 N84-10283
Bacterial degradation of polychlorinted biphenyls in sludge from an industrial sewer lagoon
[NASA-TM-83543] 02 p0243 N84-11594
Method for treating wastewater using microorganisms and vascular aquatic plants
[NASA-CASE-NSTL-10] 03 p0406 N84-12654
Waste water treatment with the aid of the addition of activated carbon into the aeration station and reactivation of the spent carbon
[BMFT-FB-T-83-186] 07 p1028 N84-16661
Microbial deterioration of hydrocarbon fuels from oil shale, coal and petroleum. III: Inhibition of fungi by fuels from coal
[AD-A137177] 10 p1469 N84-19596
Decomposition of four ammonium nitrate propellants
[AD-A136916] 10 p1470 N84-19601
Degradation of jet fuel hydrocarbons by aquatic microbial communities
[AD-A139791] 15 p2304 N84-24822
Microbial evaluation of some adhesive formulations and adhesive bases
[AD-A141659] 19 p2999 N84-29005

BIODYNAMICS
Simulation of cerebrocranial trauma for evaluation and development of gear to protect pilots against impacts
02 p0259 N84-11695
Stress fractures: The remodelling response to excessive repetitive loading
[AD-A130881] 06 p0887 N84-15765
Development of an interactive computer program to produce body description data
[AD-A133720] 06 p0897 N84-15822
Analysis of the kinematic properties data of the shoulder complex during forced motion
[AD-A135913] 09 p1362 N84-18895
Physiological, biomechanical, and medical aspects of lifting and repetitive lifting: A review
[AD-A136689] 10 p1547 N84-20140
Current research at the U.S. Naval Biodynamics Laboratory on human whole-body motion and vibration
[AD-A136367] 12 p1865 N84-22155
Effects of a negative G strap on restraint dynamics and human impact response
[AD-A138642] 13 p2024 N84-23121
User's guide for COMBIMAN programs (Computerized Biomechanical Man-Model), version 6
[AD-A139139] 14 p2184 N84-24086
The research program of the Institute for Aerospace Medicine 17 p2744 N84-27419
A survey of biodynamic test devices and methods
[AD-A142467] 20 p3133 N84-29894
Study of spatial asymmetry in human external electrical field 21 p3456 N84-31932
Photodigitizing procedures
[AD-A143589] 22 p9599 N84-32793
Mechanochemical effects in demineralization and mineralization of bone 23 p3808 N84-34146

BIOELECTRIC POTENTIAL
Variations in EEG in relation to brain functional status
18 p2897 N84-28377

BIOELECTRICITY
Neuronal adaptive mechanisms underlying intelligent information processing
[AD-A133694] 06 p0889 N84-15776
Assessment of the functional state of the heart muscle in aircrew members by means by bicycle ergometry
08 p1199 N84-17815
ERG (Electroretinogram) implicit time: An exploration of high frequency wavelets recorded in the human visual system
[AD-A134575] 08 p1201 N84-17832
Ventricular pre-excitation syndromes
11 p1699 N84-21084
Continuous ECG monitoring by the Holter method
11 p1700 N84-21086
The Holter method in aeronautical medicine
11 p1700 N84-21087
Bioelectromagnetics research in West Germany: An assessment
[AD-A144297] 24 p3935 N84-34911

BIOENGINEERING
NT ANTHROPOMETRY
NT BALLISTOCARDIOGRAPHY
NT BIOINSTRUMENTATION
NT BIOMETRICS
NT BODY MEASUREMENT (BIOLOGY)
NT CARDIOGRAPHY
NT ECHOCARDIOGRAPHY
NT ELECTROCARDIOGRAPHY
NT ELECTROENCEPHALOGRAPHY
NT ELECTROMYOGRAPHY
NT ELECTROPLETHYSMOGRAPHY
NT ELECTRORETINOGRAPHY
NT PHONOCARDIOGRAPHY
NT PLETHYSMOGRAPHY
Prosthetic occlusive device for an internal passageway
[NASA-CASE-MFS-25740-1] 02 p0265 N84-11744
US Army Medical Bioengineering Research and Development Laboratory, fiscal year 1983
[AD-A136926] 10 p1545 N84-20129
System for the management of trauma and emergency surgery in space
[NASA-CR-175439] 11 p1693 N84-21045
Developments in science and technology
[JHU/APL/DST-10] 11 p1761 N84-21491
Evaluation of proposed human subject certification tests for self-contained breathing apparatus
[PB84-172212] 17 p2748 N84-27447
ECUT: Energy Conversion and Utilization Technologies program - Biocatalysis research activity
[NASA-CR-173752] 18 p2868 N84-28207
Medical clip
[NASA-CASE-LAR-12650-1] 18 p2899 N84-28388
Conference Grant for 2nd World Congress on Biomaterials
[AD-A143129] 21 p3454 N84-31915
USSR report: Life sciences. Biomedical and behavioral sciences
[JPRS-UBB-84-018] 22 p3629 N84-32996
Effect of cyclic changes in cultivation conditions of growth kinetics and physiological properties of yeasts
22 p3629 N84-32998
USSR report: Life sciences. Biomedical and behavioral sciences
[JPRS-UBB-84-020] 23 p3805 N84-34128

BIOFEEDBACK
Biofeedback methods and quality of operator's performance 17 p2740 N84-27399
Biofeedback regulation of pulmonary ventilation
18 p2897 N84-28378
Link between characteristics of EEG rhythms in biofeedback control and indexes for operator activity
21 p3455 N84-31927

BIOGENESIS
U BIOLOGICAL EVOLUTION

BIOGEOCHEMISTRY
Oxygen-18 measurements in the assessment of natural and anthropogenic sulfur in the environment
[DE84-000566] 04 p0560 N84-13690
Dissolved organic matter and lake metabolism: Biochemistry and controls of nutrient flux dynamics in lakes
[DE83-016789] 04 p0571 N84-13761
Detection of hidden mineral deposits by airborne spectral analysis of forest canopies — Spirit Lake, Washington; Catheart Mountain, Maine; Blacktail Mountain, Montana; and Cotter Basin, Montana
[E84-10110] 12 p1830 N84-21928
Fossil fuels 19 p3037 N84-29267
Assessment of temporal dynamics of selected terrestrial carbon pools
[DE84-009850] 19 p3059 N84-29410
Earth Observing System. Volume 1, part 2: Science and mission requirements. Working group report appendix
[NASA-TM-86129-VOL-1-PT-2]
20 p3217 N84-30433
Global biogeochemistry: An overview
20 p3217 N84-30435
Biogeochemical considerations
20 p3217 N84-30436
Biological oceanography 20 p3217 N84-30437
Inland aquatic resources and biogeochemical cycles
20 p3217 N84-30438
Earth Observing System, introduction
20 p3219 N84-30451
Global Biology Research Program: Biogeochemical Processes in Wetlands
[NASA-CP-2316] 20 p3256 N84-30665
Executive summary: Background
20 p3256 N84-30666
Geographic distribution of wetland parameters: The foundation of a data base 20 p3256 N84-30667
A framework for wetlands research: Development of a wetlands data base 20 p3256 N84-30668
An analysis of possible future atmospheric retention of fossil fuel CO-2
[DOE/OR-21400/1] 23 p3793 N84-34054

BIOGRAPHY
For the sacred air space of our homeland
[AD-A137189] 11 p1599 N84-20476
USSR report: Political and sociological affairs, no. 1389. Chapters from Brezhnev's Reminiscences
[JPRS-83124] 14 p2112 N84-23658
Gwilym Jenkins: Experimental design and time series
[AD-A141506] 19 p3084 N84-29575
East Europe report: Scientific affairs
[JPRS-ESA-84-007] 23 p3728 N84-33628

BIOINSTRUMENTATION
Adaptive noise cancellation in neuromagnetic measurement systems
[AD-A132547] 05 p0684 N84-14494
Immobilization of biomolecules on semiconductor surfaces
[FOA-C-40178-C2(B2,A3)] 06 p0831 N84-15408
Analysis of the kinematic properties data of the shoulder complex during forced motion
[AD-A135913] 09 p1362 N84-18895
The VERRUN and VERNAL software systems for steady-state visual evoked response experimentation
[NASA-CR-172311] 16 p2539 N84-26298
Development of an EM-based lifeform monitor
[AD-A140583] 17 p2745 N84-27430

BIOLOGICAL ACTIVITY
U ACTIVITY (BIOLOGY)

BIOLOGICAL ANALYSIS
U BIOASSAY

BIOLOGICAL CELLS
U CELLS (BIOLOGY)

BIOLOGICAL EFFECTS
NT DESYNCHRONIZATION (BIOLOGY)
NT JET LAG
Personal exposure to volatile organics and other compounds indoors and outdoors: The TEAM (Total Exposure Assessment Methodology) study
[PB83-231357] 01 p0115 N84-10744
Radiofrequency radiation exposure for bio-effects research at the Health Effects Research Laboratory, Research Triangle Park, North Carolina
[PB83-229591] 01 p0115 N84-10747
Registry of toxic effects of chemical substances. User's guide to the RTECS computer tape
[PB83-223172] 01 p0115 N84-10748
Direct biological effects of increased atmospheric carbon dioxide levels
[PB83-224360] 01 p0115 N84-10749
Concepts of dose to soft tissue at the cellular level
[DE83-013830] 02 p0266 N84-11748
Accuracy of external personnel dosimetry systems in mixed neutron and gamma radiation fields
[DE83-015712] 02 p0266 N84-11751
Eruption of permanent dentition in rhesus monkeys exposed to ELF (Extremely low frequency) fields
[AD-A132065] 03 p0413 N84-12703
Aerospace Medicine and Biology: A continuing bibliography with indexes (supplement 250)
[NASA-SP-7011(250)] 03 p0415 N84-12712
Effect of carbon monoxide (CO) on firefighters
04 p0512 N84-13357
Fates and biological effects of polycyclic aromatic hydrocarbons in aquatic systems
[PB83-250191] 04 p0561 N84-13698
Early mechanisms in radiation-induced biological damage
[DE84-001511] 04 p0572 N84-13765
Respiration of roots response to low O2 stress
[DE83-017495] 04 p0572 N84-13766
Aerospace Medicine and Biology: A continuing bibliography with indexes (supplement 251)
[NASA-SP-7011(251)] 04 p0572 N84-13767
Behavioral and prenatal effects of 60-Hz fields
[DE84-001126] 05 p0712 N84-14664
Biological effects of radiofrequency radiation: Review draft, parts 1, 2 and 3
[PB83-262550] 05 p0714 N84-14680
Status of research in progress at the Inhalation Toxicology Research Institute
[DE83-012610] 06 p0875 N84-15694

Duration of memory loss due to electron beam exposure
[AD-A132941] 06 p0886 N84-15760
Aerospace medicine and biology: A continuing bibliography with indexes (supplement 252)
[NASA-SP-7011(252)] 06 p0886 N84-15763
Modeling SO2 effects on the productivity and growth of plants
[DE83-010259] 07 p1027 N84-16655
Global Change: A Biogeochemical Perspective
[NASA-CR-173210] 07 p1027 N84-16656
Birth of space plant growing
[NASA-TM-77244] 07 p1042 N84-16756
Aerospace Medicine and Biology: A continuing bibliography with indexes (supplement 253)
[NASA-SP-7011(253)] 07 p1047 N84-16790
Radiation protection for manned space activities
[NASA-CR-173202] 07 p1047 N84-16791
Development of power system measurements
[PB84-109891] 08 p1153 N84-17509
Risk models for risk distance prediction during release of toxic industrial chemicals caused by acts of war
[FOA-C-40185-C2(H2)] 08 p1183 N84-17707
Biological Effects of Nonionizing Electromagnetic Radiation, volume 7, number 2-4, July - December 1982
[AD-A134674] 08 p1197 N84-17805
Acidic deposition effects on vegetation: A review and analysis of methodology
[DE84-004014] 09 p1343 N84-18769
Mechanical regulation of plant growth and development 09 p1355 N84-18858
The roles of callose, elicitors and ethylene in thigmomorphogenesis and gravitropism
09 p1356 N84-18860
Ultrastructural effects of radiation on cells and tissues: Concluding remarks
[DE84-003454] 10 p1545 N84-20131
Aerospace Medicine and Biology: A continuing bibliography with indexes (supplement 255)
[NASA-SP-7011(255)] 10 p1546 N84-20134
Vegetation response to carbon dioxide research plan
[DE84-006219] 11 p1676 N84-20934
Space Station medical sciences concepts
[NASA-TM-58255] 11 p1693 N84-21040
Aerospace Medicine and Biology: 1983 cumulative index
[NASA-SP-7011(254)] 11 p1693 N84-21043
Aerospace medicine and biology: A continuing bibliography with indexes
[NASA-SP-7011(256)] 11 p1693 N84-21044
Hypnotics and air operations
11 p1697 N84-21072
Biological effects from electric fields associated with high voltage transmission lines
[DE84-005498] 12 p1864 N84-22143
Biological effects of electric fields: An overview
[DE84-005888] 12 p1864 N84-22144
Aerospace Medicine and Biology: A continuing bibliography with indexes, supplement 257
[NASA-SP-7011(257)] 12 p1864 N84-22146
USSR report: Space Biology and Aerospace Medicine, volume 18, no. 1, January - February 1984
[JPRS-USB-84-002] 12 p1864 N84-22149
Toxicology of tetrachloroethylene
[MBL-1983-3] 12 p1866 N84-22159
Toxicology of styrene
[MBL-1983-11] 12 p1866 N84-22160
Behavioral biology of mammalian reproduction and development for a space station
[NASA-CR-173493] 13 p2019 N84-23092
Aerospace Medicine and Biology: A continuing bibliography with indexes (supplement 258)
[NASA-SP-7011(258)] 14 p2184 N84-24088
Free-flyer biostack experiment
15 p2277 N84-24674
USSR report: Space Biology and Aerospace Medicine, volume 18, no. 2, March - April 1984
[JPRS-USB-84-004] 15 p2374 N84-25247
Some aspects of dosimetry in studies of biological effects of nonionizing electromagnetic radiation
15 p2375 N84-25248
Dynamics of changes in metabolic and endocrine processes in helicopter crews during commercial flights
15 p2375 N84-25254
Review of book on space radiobiology
15 p2378 N84-25270
USAFSAM (USAF School of Aerospace Medicine) review and analysis of radiofrequency radiation bioeffects literature
[AD-A140023] 15 p2379 N84-25280
Biological effects of nonionizing electromagnetic radiation. Volume 8, Number 1: A digest of current literature
[AD-A139296] 15 p2380 N84-25283
Change in spectrum of blood hormones under influence of centimeter range microwaves
17 p2742 N84-27412
Gene mutations, chromosome aberrations and survivability after X-ray irradiation of Chinese hamster cell culture under conditions of cysteamine protection
17 p2743 N84-27413
Land use planning for sources of nonionizing electromagnetic radiation
[PB84-156363] 17 p2771 N84-27594
An investigation of the phototropic effect on seedling orientation in a microgravity environment: A student involvement project — radish germination
18 p2800 N84-27771
Behavioral and biological effects of changes in group size and membership
[NASA-CR-173801] 19 p3067 N84-29457
European scientific notes. Volume 38, number 6
[AD-A142175] 19 p3116 N84-29801
Biological oceanography 20 p3217 N84-30437
Land biology 20 p3218 N84-30440
Chesapeake Bay nutrient dynamics study
[PB84-190982] 20 p3229 N84-30524
Effect of high ammonia content in pressure chamber atmosphere on human adrenocortical system function
20 p3255 N84-30658
Laboratory for Energy Related Health Research
[DE84-000529] 20 p3257 N84-30672
Bilateral carotid ligation and effects of electromagnetic field on conditioned reflex retention and cerebral nucleic acid levels 20 p3258 N84-30677
Time-dependent spinal cord changes following nonionizing microwave irradiation
20 p3258 N84-30678
Effect of constant and low-frequency magnetic fields on biological systems 20 p3258 N84-30679
Reactions of cerebral cortex neurons to alternating magnetic field on glutamic acid
20 p3258 N84-30681
Influence of microwave electromagnetic radiation and certain hormones on osmotic resistance of mouse erythrocytes 20 p3259 N84-30682
Aerospace Medicine and Biology: A continuing bibliography with indexes (supplement 261)
[NASA-SP-7011(261)] 20 p3259 N84-30683
Analysis of some aspects of mechanism of action of helium-neon laser 21 p3455 N84-31922
Roles of ionizing radiation in cell transformation
[DE84-013397] 22 p3629 N84-32995
Effect of cyclic changes in cultivation conditions of growth kinetics and physiological properties of yeasts
22 p3629 N84-32998
Aerospace Medicine and Biology: A continuing bibliography with indexes
[NASA-SP-7011(262)] 22 p3630 N84-33003
Occupational Medicine Relevant to Aviation Medicine
[AGARD-CP-341] 22 p3631 N84-33011
Hydrazine toxicology: Impact on safety and health in military aviation 22 p3631 N84-33013
A comparative study in the animal of the toxicity of the combustion products of diverse materials
22 p3632 N84-33015
An unusual toxicological property of alcohol: The density effect on the organ of balance 22 p3632 N84-33016
Visual function and the definition of thresholds for exposure to laser radiation 22 p3632 N84-33019

BIOLOGICAL EVOLUTION
Local calcium entry and the guidance of growth
02 p0263 N84-11726
Comparison of organisms and cell types using two-dimensional electrophoresis
[DE84-003574] 08 p1197 N84-17807
Investigation of compounds essential for the origin of life
[NASA-CR-173538] 15 p2378 N84-25272
Methane producing bacteria: Immunological characterization 19 p3064 N84-29438
Galactic cycles and their relationship to life on Earth
[DE84-011737] 21 p3525 N84-32329

BIOLOGICAL MODELS
U BIONICS

BIOLOGICAL MODELS (MATHEMATICS)
Branching processes in periodically varying environment
[CTH-MATH-1983-12-PREPRINT]
03 p0426 N84-12792
Mathematical simulation of diver performance
[AD-A133844] 05 p0713 N84-14671
The dynamics of structured populations: Some examples
[MC-TW-241/83] 07 p1064 N84-16906
On the stability of the cell size distribution
[MC-TW-242/83] 07 p1065 N84-16907
Clines induced by a geographical barrier
[MC-TW-244/83] 07 p1065 N84-16908
Modelling of multi-signal immobilized immunogens
17 p2741 N84-27401
Research opportunities in bone demineralization, phase 3
[NASA-CR-3795] 17 p2743 N84-27417
A mechanical model of the human body and its application 17 p2744 N84-27421
An axiomatic theory of concentration and diversity — in biology
[NLR-MP-83015-U] 17 p2760 N84-27531
ECUT: Energy Conversion and Utilization Technologies program - Biocatalysis research activity
[NASA-CR-173752] 18 p2868 N84-28207
An optimal control problem in the study of liver kinetics
[CTH-MATH-1984-10] 19 p3064 N84-29439
On the stable size distribution of populations reproducing by fission into two unequal parts
[CWI-AM-R8401] 19 p3092 N84-29833
Sensitivity to hypoxia in humans
21 p3456 N84-31934
Modeling, control and simulation of three-dimensional robotic systems with application to biped locomotion
21 p3460 N84-31943
Roles of ionizing radiation in cell transformation
[DE84-013397] 22 p3629 N84-32995
Physiology 22 p3684 N84-33383

BIOLOGY
Conference on Ultrasonics in Biology and Medicine, UBIOMED 6: Report summaries
[ISSN-0208-5658] 01 p0111 N84-10723
Defense, energy, and basic research at the Los Alamos National Laboratory
[DE83-015241] 07 p1094 N84-17116
Aerospace Medicine and Biology: A continuing bibliography with indexes (supplement 255)
[NASA-SP-7011(255)] 10 p1546 N84-20134
USSR report: Life sciences. Biomedical and behavioral sciences
[JPRS-UBB-84-016] 20 p3257 N84-30675
USSR report: Life sciences. Biomedical and behavioral sciences
[JPRS-UBB-84-012] 21 p3454 N84-31916

BIOLUMINESCENCE
A portable, microprocessor controlled, multichannel fluorometer for marine analysis
[AD-A130161] 01 p0083 N84-10542
Properties of the deep scattering layer analyzed in terms of bioluminescent behavior of its components
[AD-A143849] 23 p3803 N84-34113

BIOMAGNETISM
Adaptive noise cancellation in neuromagnetic measurement systems
[AD-A132547] 05 p0684 N84-14494
Neuromagnetic localization of two components of the transient visual evoked response to patterned stimulation
[AD-A132546] 05 p0712 N84-14667
Magnetoencephalography
[AD-A132496] 05 p0712 N84-14668
The application of a superconducting quantum interference device second-order gradiometer to measure visual evoked responses
[AD-A138407] 12 p1865 N84-22156
Biomagnetism: Possible new predictor of personnel performance
[AD-A142451] 20 p3262 N84-30697
Bioelectromagnetics research in France: An assessment
[AD-A144305] 24 p3936 N84-34912

BIOMASS
The hardwood resource on nonindustrial private forest land in the southeast Piedmont
[PB83-252759] 04 p0556 N84-13663
Biomass electrochemistry
[DE84-000020] 07 p0971 N84-16293
The effects of vegetation and soil hydraulic properties on passive microwave sensing of soil moisture: Data report for the 1982 fisis experiments
[NASA-TM-85106] 07 p1023 N84-16633
Biothermal conversion of biomass and wastes to methane
[DE84-006052] 11 p1675 N84-20931
Production of hydrogen from renewable resources
[DE84-000062] 14 p2132 N84-23780
Hot spot reflectance measurements applied to green biomass estimation and crop growth monitoring
[NLR-MP-83037-U] 17 p2721 N84-27323
Assessment of temporal dynamics of selected terrestrial carbon pools
[DE84-009850] 19 p3059 N84-29410
Aboveground biomass estimation in a tidal brackish marsh using simulated Thematic Mapper spectral data
20 p3214 N84-30419
Chesapeake Bay nutrient dynamics study
[PB84-190982] 20 p3229 N84-30524

Appropriate technology management information system
[DE84-010952] 20 p3315 N84-31056
Habitability of the Earth 21 p3427 N84-31740
NASA pilot land data system 21 p3427 N84-31741
An analysis of the effect of biological and physical parameters of a wetlands grass biome on the spectral modeling of phytomass and primary productivity 23 p3769 N84-33891

BIOMASS ENERGY PRODUCTION
Methanol production by catalytic gasification of wood
[DE83-013744] 01 p0053 N84-10341
Gas-turbine demonstration of pyrolysis-derived fuels
[DE83-013610] 01 p0053 N84-10342
Ethyl alcohol fuel production from the Jerusalem artichoke
[DE83-013468] 02 p0203 N84-11326
Fluidized bed gasification of biomass to methane
[NASA-CASE-NPO-15903-1] 03 p0403 N84-12635
Biomass electrochemistry
[DE84-000020] 07 p0971 N84-16293
Producer gas: Another fuel for motor transport
[PB84-129774] 09 p1291 N84-18427
Alcohol fuels: Options for developing countries
[PB84-129608] 09 p1291 N84-18426
Vegetable Oil as Diesel Fuel: Seminar 3
[PB84-151323] 14 p2133 N84-23782
Photo/Biological Hydrogen Principal Investigators Review Meeting: Proceedings of the May 1983 Program Review
[DE84-000083] 20 p3235 N84-30536
Evaluation of sulfuric acid hydrolysis processes for alcohol fuel production
[DE84-004524] 23 p3715 N84-33548

BIOMECHANICS
U BIODYNAMICS

BIOMEDICAL DATA
Uses of synchrotron radiation
[DE83-014431] 03 p0416 N84-12720
China report: Science and technology
[JPRS-CST-84-009] 12 p1773 N84-21561
Contributions of space medicine to medical research 14 p2251 N84-24517
Circadian rhythm of human heart rate during antiorthostatic tests 15 p2376 N84-25259
Effect of working in two shifts on circadian rhythm of heart rate 15 p2376 N84-25260
Influence of exam stress on cardiac function of students differing in level of physical activity 15 p2378 N84-25268
Investigation of compounds essential for the origin of life
[NASA-CR-173538] 15 p2378 N84-25272
Guidelines for health surveillance in the NASA (National Aeronautics and Space Administration) workplace
[NASA-CR-173677] 18 p2899 N84-28390
Animal models for the assessment of laser induced eye damage
[AD-P003293] 18 p2908 N84-28443
Innovations in cosmonaut medical monitoring, physical conditioning 21 p3347 N84-31229
Medical research in first 100 days of Salyut-7 flight 21 p3347 N84-31230
Managerial and organizational determinants of efficiency in research teams (social sciences)
[AD-A144153] 24 p3968 N84-35125

BIOMETRICS
NT ANTHROPOMETRY
NT BALLISTOCARDIOGRAPHY
NT BODY MEASUREMENT (BIOLOGY)
NT CARDIOGRAPHY
NT ECHOCARDIOGRAPHY
NT ELECTROCARDIOGRAPHY
NT ELECTROENCEPHALOGRAPHY
NT ELECTROMYOGRAPHY
NT ELECTROPLETHYSMOGRAPHY
NT ELECTRORETINOGRAPHY
NT PHONOCARDIOGRAPHY
NT PLETHYSMOGRAPHY
Evaluation of skeletal muscle tone by recording lateral rigidity 02 p0262 N84-11717
The U.S. Air Force neurophysiological workload test battery: Concept and validation 11 p1686 N84-21064
Criteria of human cold adaptation 18 p2897 N84-28381
Oligocene and Miocene larger foraminiferida from Australia and New Zealand
[BMR-BULL-188] 23 p3797 N84-34077

BIONICS
Lethal, potentially lethal lesion model
[DE84-001325] 06 p0886 N84-15762
Visual routines
[AD-A133634] 06 p0891 N84-15792
Operator alertness/workload assessment using stochastic model-based analysis of myoelectric signals
[AD-A144535] 24 p3937 N84-34921

BIOPHYSICS
NT HEALTH PHYSICS
NT PUBLIC HEALTH
The measurement of the diffusive motion of protons in biological systems
[AD-A129276] 01 p0142 N84-10930
physico-chemical investigation of some areas of fundamental significance to biophysics
[DE83-017404] 07 p1043 N84-16761
RLE (Research Laboratory of Electronics)
[AD-A134812] 08 p1151 N84-17495
Biophysical mechanism of differential growth during gravitropism 09 p1358 N84-18861
USSR report. Life sciences: Biomedical and behavioral sciences
[JPRS-UBB-84-007] 14 p2250 N84-24515
Are living cells sensitivity to gravity?
[DFVLR-MITT-83-19] 17 p2743 N84-27418
Biophysics space research 17 p2745 N84-27426
International Workshop on Biophysical Correlates of Cellular Function UNESCO
[AD-A142490] 20 p3257 N84-30671
RLE Progress Report no. 126
[RLE-PR-126] 22 p3681 N84-33336
Communications biophysics 22 p3684 N84-33362
USSR report: Life sciences. Biomedical and behavioral sciences
[JPRS-UBB-84-020] 23 p3805 N84-34128

BIOREACTORS
Analysis and modeling of photosynthetic bacterial hydrogen production plants
[DE84-000003] 04 p0570 N84-13758

BIOREGENERATION
U REGENERATION (PHYSIOLOGY)

BIOREGENERATIVE LIFE SUPPORT SYSTEMS
U CLOSED ECOLOGICAL SYSTEMS

BIOSATELLITES
Development of equipment for 'Cosmos-1514' biosatellite 19 p2976 N84-28866

BIOSENSORS
U BIOINSTRUMENTATION

BIOSIMULATION
U BIONICS

BIOSPHERE
Direct biological effects of increased atmospheric carbon dioxide levels
[PB83-224360] 01 p0115 N84-10749
Time dependent land and vegetation canopy temperatures 12 p1858 N84-22104
Toward an International Geosphere-Biosphere Program: A Study of Global Change
[PB84-161769] 14 p2176 N84-24038
Man and the biosphere program
[GPO-28-292] 15 p2366 N84-25193
Weather summaries for Coram Experimental Forest, Northwestern Montana: An international biosphere reserve
[PB84-182443] 20 p3248 N84-30615

BIOSYNTHESIS
The growth of paracoccus halodenitrificans in a defined medium
[NASA-TM-84411] 01 p0111 N84-10724
NASA Space Biology Program. Eighth annual symposium's program and abstracts
[NASA-CP-2299] 09 p1351 N84-18829
Aromatic biosynthesis in pine tissues 09 p1357 N84-18866
Interactions of light and gravity on growth, orientation, and lignin biosynthesis in mung beans 09 p1359 N84-18879
Isolation and characterization of beta-glucan synthase: A potential biochemical regulator of gravistimulated differential cell wall loosening 09 p1359 N84-18882
Microwaves and human leukocyte function: Exposure of human mononuclear leukocytes to microwave energy pulse-modulated at 16 Hz or at 60 Hz
[AD-A141071] 19 p3065 N84-29443

BIOT METHOD
The treatment of convected vortices in compressible potential flow 03 p0324 N84-12121

BIOTECHNOLOGY
Suggestions concerning technological research and development for the purpose of industrial use of marine algae
[ISSN-0077-5606] 05 p0711 N84-14661
European Scientific Notes. Volume 37, number 9
[AD-A133558] 06 p0935 N84-16079
European Scientific Notes, volume 38, number 1
[AD-A136868] 10 p1598 N84-20472
West Europe report: Science and technology
[JPRS-WST-84-011] 13 p2038 N84-23224
West Europe report: Science and technology
[JPRS-WST-84-013] 14 p2118 N84-23694
West Europe report: Science and technology
[JPRS-WST-84-001] 14 p2135 N84-23799
East Europe report: Scientific affairs
[JPRS-ESA-84-009] 14 p2136 N84-23802
ECUT: Energy Conversion and Utilization Technologies program. Industry, university and research interest in the US Department of Energy ECUT biocatalysis research activity
[NASA-CR-173553] 15 p2361 N84-25167
Commercial biotechnology: An international analysis
[PB84-173608] 16 p2535 N84-26272
Aerospace Medicine and Biology: A continuing bibliography with indexes (supplement 259)
[NASA-SP-7011(259)] 17 p2743 N84-27415
ECUT: Energy Conversion and Utilization Technologies program - Biocatalysis research activity
[NASA-CR-173752] 18 p2868 N84-28207
Aerospace Medicine and Biology: A continuing bibliography with indexes (supplement 260)
[NASA-SP-7011(260)] 19 p3064 N84-29440

BIOTITE
Possibility of investigation of Kimberlite pipes by superconductive geomagnetic variation measuring stations
[CSIR-TRANS-1701] 08 p1185 N84-17724

BIPLANES
An experimental and theoretical analysis of the aerodynamic characteristics of a biplane-winglet configuration
[NASA-TM-85815] 19 p2963 N84-28779

BIPOLAR TRANSISTORS
Development and fabrication of an augmented power transistor
[NASA-CR-168262] 02 p0212 N84-11388
Hybrid power semiconductor switch
[NASA-CASE-LEW-13922-1] 02 p0212 N84-11389
Internal noise of low-frequency preamplifiers
[AD-A131532] 02 p0213 N84-11398
A rectangular gate merged MOSBJT
[AD-A132450] 04 p0525 N84-13453
The BJT-JFET: A novel merged device structure
[AD-A132373] 04 p0525 N84-13454
Numerical modeling of the MOSBJT
[AD-A132351] 04 p0525 N84-13456
Development of a planar heterojunction bipolar transistor for very high speed logic
[AD-A136341] 09 p1306 N84-18539
Technology for LSI circuits combining integrated injection logic and bipolar transistors
[BMFT-FB-T-83-210] 10 p1489 N84-19733
High voltage-high power components for large space power distribution systems
[NASA-TM-83648] 13 p1940 N84-22615
Basic EMC (electromagnetic compatibility) technology advancement for c3 systems. Volume 1: A nonlinear macromodel of the bipolar integrated circuit operational amplifier for electromagnetic interference analysis
[AD-A141369] 19 p3004 N84-29040
Thermodynamic field theory of the dynamic behavior of bipolar junction transistors 21 p3390 N84-31510

BIPOLARITY
Internal noise of low-frequency preamplifiers
[AD-A131532] 02 p0213 N84-11398
GaAs/GaAlAs bipolar heterojunction gate array
[AD-A138203] 12 p1913 N84-22466
Teardown analysis of a ten cell bipolar nickel-hydrogen battery
[NASA-TM-83618] 13 p2008 N84-23026
Thomson semiconductors bipolar IC strategy to 1986 13 p2039 N84-23227
New integrated circuit technology 14 p2136 N84-23804
The 8th European Specialist Workshop on Active Microwave Semiconductor Devices 4-6 may 1983
[AD-A142252] 20 p3177 N84-30180
Circuit engineering principles for construction of bipolar large-scale integrated circuit storage devices and very large-scale main memory 21 p3379 N84-31441
Study of bipolar batteries
[DE84-013193] 21 p3394 N84-31540

BIPROPELLANTS
U LIQUID ROCKET PROPELLANTS

BIRD-AIRCRAFT COLLISIONS
Alternate T-38 transparency development. Part 4: Parametric studies
[AD-A131904] 03 p0331 N84-12159
Flightline thermal environment testing of F-111 transparencies
[AD-A131642] 03 p0332 N84-12163
Capabilities of the NRCC/NAE flight impact simulator facility
[AD-A130849] 06 p0784 N84-15136
Conference on Aerospace Transparent Materials and Enclosures
[AD-A140701] 17 p2589 N84-26596

Pyrotechnic clear path egress system for the T-38 trainer aircraft
[AD-P003184] 17 p2589 N84-26597
Battle damage repair of birdstrike resistant laminated transparencies
[AD-P003185] 17 p2589 N84-26598
New aircraft windshield applications using ion exchange glass
[AD-P003187] 17 p2590 N84-26600
T-38 student windshield birdproofing efforts utilizing metal and composite materials for aft arch reinforcement
[AD-P003189] 17 p2590 N84-26602
Development of lightweight commercial aircraft windshields with new high strength glasses
[AD-P003190] 17 p2590 N84-26603
Degradation of the bird impact resistance of polycarbonate
[AD-P003193] 17 p2591 N84-26606
Service-life induced failure of bird impact resistant windshields
[AD-P003195] 17 p2591 N84-26608
In-flight measurement of pressure distribution over T-38 student canopy
[AD-P003207] 17 p2593 N84-26620
Civil aircraft windscreen damage due to birdstrikes
[AD-P003214] 17 p2594 N84-26627
USAF aircraft windshield/canopy bird strikes
[AD-P003215] 17 p2594 N84-26628
Increasing birdstrike rates and improved birdstrike analysis of the Royal Netherlands Air Force
[AD-P003216] 17 p2594 N84-26629
Investigations concerning improvements of the SAAB 37 windshield birdstrike resistance
[AD-P003217] 17 p2595 N84-26630
Bird impact evaluation of the F/RF-4 transparency system
[AD-P003218] 17 p2595 N84-26631
Alternate T-38 transparency development
[AD-P003219] 17 p2595 N84-26632
A triangulation technique for obtaining deflections of aircraft transparencies during bird impact testing
[AD-P003220] 17 p2595 N84-26633
Validation of the MAGNA (Materially and Geometrically Nonlinear Analysis) computer program for nonlinear finite element analysis of aircraft transparency bird impact
[AD-P003229] 17 p2596 N84-26642
MAGNA (Materially and Geometrically Nonlinear Analysis) computer simulation of bird impact on the F-15 aircraft canopy
[AD-P003230] 17 p2597 N84-26643
Simulation of T-38 aircraft student canopy response to cockpit pressure and thermal loads using MAGNA (Materially and Geometrically Nonlinear Analysis)
[AD-P003231] 17 p2597 N84-26644
Parametric studies of the T-38 student windshield using the finite element of code MAGNA (Materially and Geometrically Nonlinear Analysis)
[AD-P003232] 17 p2597 N84-26645
Theoretical evaluation of the structural performance of Swedish fighter aircraft windshields subjected to bird impact
[AD-P003235] 17 p2597 N84-26648
Monolithic F-16 uniform thickness stretched acrylic canopy transparency program
[AD-A140645] 17 p2606 N84-26694
Feasibility study for the improvement of automatic detection of bird migration with radar images
[LEOK-TR-1983-12] 18 p2790 N84-27704
Effects of surface flaws on impact resistance of uncoated polycarbonate
[AD-A141364] 19 p2998 N84-28998
Improving the birdstrike resistance and durability of aircraft windshield systems: Program technical summary
[AD-A143712] 23 p3691 N84-33395

BIRDS
NT CHICKENS
NT PIGEONS
Use of fauna as biomonitors
[DE83-016082] 04 p0571 N84-13762
Bird impact evaluation of the F/RF-4 transparency system
[AD-P003218] 17 p2595 N84-26631
Feasibility study for the improvement of automatic detection of bird migration with radar images
[LEOK-TR-1983-12] 18 p2790 N84-27704

BIREFRINGENCE
Silicon switch development for optical pulse generation in fusion lasers at Lawrence Livermore National Laboratory
[DE84-002798] 07 p1011 N84-16556
Advanced filter technology
[AD-A135446] 08 p1232 N84-18050
Large aperture optical switching devices
[DE84-005126] 12 p1908 N84-22433
Temperature dependance and temporal fluctuations of the birefringence of some single-mode fibers
[FI-452-TBR-56] 14 p2225 N84-24356
Solar-assisted hydrogen generation by photoelectrocatalysis: Electric birefringence and ellipsometric spectroscopy of the semiconductor/electrolyte interface
[PB84-169804] 15 p2288 N84-24731
Measurement of residual strains and stresses in transparent materials
[AD-P003209] 17 p2593 N84-26622
Fiber optic current probe
[DE84-007964] 19 p3105 N84-29729
Crystalline-state extrusion of low density polyethylenes
[AD-A142017] 20 p3161 N84-30075
Newly discovered effect of interaction of optical radiation and glass 21 p3482 N84-32069

BIREFRINGENT FILTERS
Strategic blue-green communication filters
[AD-A142353] 20 p3173 N84-30151

BISMUTH COMPOUNDS
NT BISMUTH OXIDES
Oxygen electrodes for energy conversion and storage
[DE84-003919] 07 p0999 N84-16476
Shuttle flight test of an advanced gamma-ray detection system
[AD-A136681] 10 p1498 N84-19789

BISMUTH OXIDES
Ionic conductivity of Li7BiO6
[AD-A135386] 08 p1124 N84-17307
Dependence of holographic grating formation upon interference pattern orientation in bismuth silicon oxide
[AD-A138099] 12 p1818 N84-21852

BISPHENOLS
An experimental approach to evaluating environmental degradation mechanisms in bisphenol-A polycarbonate films on metallic substrates
[SERI/TR-255-1602] 24 p3917 N84-34798

BISTABLE AMPLIFIERS
U FLIP-FLOPS

BISTABLE CIRCUITS
Transverse and quantum effects in light control by light; (A) parallel beams: Pump dynamics for three level superfluorescence; and (B) counterflow beams: An algorithm for transverse, full transient effects in optical bi-stability in a Fabryperot cavity
[AD-A136906] 10 p1578 N84-20342
Optical bistability: A novel approach to optical signal processing and communications 12 p1905 N84-22411

BISTATIC RADAR
U MULTISTATIC RADAR

BISTATIC REFLECTIVITY
Bistatic radar cross sections of chaff
[AD-A133967] 05 p0667 N84-14384
Bistatic radar cross sections of horizontally oriented chaff
[AD-A140903] 17 p2654 N84-26975

BIT ERROR RATE
Automatic-repeat-request error control schemes
[NASA-CR-170605] 02 p0207 N84-11353
Fast evaluation of the numerical error rate in the presence of intersymbolic interference
[CRPE-NT-127] 13 p2029 N84-23158
New short constraint length, rate 1/N convolutional codes which minimize required E sub b/N sub o for given bit error rate 16 p2479 N84-25895
On the undetected error probability of a concatenated coding scheme for error control
[NASA-CR-173613] 16 p2541 N84-26313
Applications of differential phase statistics to studies of c3 and spread spectrum communications
[AD-A142204] 19 p3007 N84-29063

BIT SYNCHRONIZATION
Symbol synchronization for the TDRSS decoder
[NASA-CR-170603] 02 p0207 N84-11352

BITS
Method for counting errors, deletions, and additions when both transmitted and received data are known
[PB84-127620] 09 p1305 N84-18531
Investigation into a digital modulation method for a frequency hopping system, using a low bit rate
[PHL-1983-44] 12 p1808 N84-21790
Contribution to the question bit error performance of CCITT study group 18
[FI-44-TBR-82] 12 p1810 N84-21799
Research in the design of high-performance reconfigurable systems
[NASA-CR-173998] 24 p3942 N84-34957

BITUMENS
Review of storage stability characteristics of hydrocarbon fuels, 1952-1982
[DE84-006557] 12 p1803 N84-21754
Oil shale extraction using super-critical extraction
[NASA-CASE-NPO-15656-1] 13 p2006 N84-23012

BIVARIATE ANALYSIS
A user's guide to BISAM: The bivariate data modeling program
[AD-A132722] 05 p0729 N84-14788
Assessment of Fisher and logistic linear quadratic discrimination models
[ORNL/CSD-TM-200] 06 p0904 N84-15865
Some properties of a 5-parameter bivariate probability distribution
[NASA-TM-82550] 06 p0904 N84-15866
The influence of solar activity on Earth's rotation: Problems of a bivariate analysis
09 p1410 N84-19218
Statistical modeling of space shuttle environmental data
[NASA-CR-170940] 10 p1573 N84-20304
A method for determining if unequal shape parameters are necessary in a bivariate gamma distribution
10 p1573 N84-20306
A differential equations approach to the modal location for a family of bivariate gamma distributions
10 p1573 N84-20307
Bivariate quadratic splines on crisscross triangulations
[AD-P002979] 14 p2202 N84-24215
An autoregressive process for Beta random variables
[AD-A140848] 17 p2759 N84-27514
On the controlled approximation order from certain spaces of smooth bivariate splines
[AD-A142868] 21 p3472 N84-32004
Convergence of bivariate cardinal interpolation
[AD-A142894] 21 p3472 N84-32006
Triangular extrapolation
[AD-A144660] 24 p3952 N84-35025
Multivariate scattered data derivative generation by functional minimization
[AD-A144663] 24 p3952 N84-35028

BL LACERTAE OBJECTS
Quasars and galaxies with active nuclei
10 p1594 N84-20448
An X-ray survey of variable radio bright quasars
[NASA-TM-86094] 14 p2250 N84-24512
LHEA contributions to the Future of Ultraviolet Astronomy Based on Six Years of IUE Research
[NASA-TM-86098] 15 p2423 N84-25559
Very recent IUE observations of 2 BL Lacertae orbits
15 p2424 N84-25561
Photon losses in cosmic ray acceleration in active galactic nuclei
[DE84-012583] 20 p3321 N84-31081
Multifrequency observations of three active galaxies
24 p3972 N84-35151
Multifrequency observations of active galactic nuclei
24 p3972 N84-35152

BLACK AND WHITE PHOTOGRAPHY
Analysis of the metric camera black and white images over Italy 23 p3764 N84-33859

BLACK BODY RADIATION
Theoretical studies of solar-pumped lasers
[NASA-CR-173283] 08 p1164 N84-17576
Temperature, concentration, and size measurements in turbulent reactive flows 13 p1943 N84-22633
Effect of certain geometrical parameters on metrological characteristics of multichamber black body
17 p2637 N84-26871
Irradiance from stars based on blackbody theory
[NASA-TM-82582] 17 p2775 N84-27617
A blackbody-pumped CO2-N2 transfer laser
[NASA-TP-2347] 21 p3408 N84-31617

BLACK HAWK ASSAULT HELICOPTER
U H-60 HELICOPTER

BLACK HILLS (SD-WY)
Analysis of the quality of image data acquired by the LANDSAT-4 Thematic Mapper (TM) of the Black Hills area, South Dakota
[E84-10041] 04 p0552 N84-13634

BLACK HOLES (ASTRONOMY)
Self-consistent spherical accretion and models of quasars 04 p0620 N84-14088
Electromagnetic, gravitational, and neutrino waves in flat and curved spacetime 06 p0941 N84-16111
Black-hole electrodynamics 16 p2578 N84-26540
Nonlinear growth of perturbations in an Einstein-De Sitter cosmology 17 p2776 N84-27624

BLACKOUT (PROPAGATION)
NT ATMOSPHERICS
NT COSMIC NOISE
NT ELECTROMAGNETIC NOISE
NT IONOSPHERIC NOISE
NT SHOT NOISE
NT THERMAL NOISE
NT WHISTLERS
NT WHITE NOISE

BLADDER
PSC, a programmable software controller for a multiple bladder, sequentially inflatable g-suit
[AD-A138069] 12 p1868 N84-22172

BLADDERS (MECHANICS)
U DIAPHRAGMS (MECHANICS)
BLADE TIPS
An experimental investigation of a free-tip rotor configuration in a forward flight wind-tunnel test
[NASA-TM-84409] 01 p0003 N84-10018
Parametric tip effects for conformable rotor applications
[NASA-TM-85682] 01 p0094 N84-10609
Helicopter rotor wake geometry and its influence in forward flight. Volume 2: Wake geometry charts
[NASA-CR-3727] 03 p0320 N84-12091
La Recherche Aerospatiale, Bimonthly Bulletin, no. 1982-4, 209/July-August 1982
[ESA-TT-781] 04 p0477 N84-13141
A possible explanation for the present difference between linear noise theory and experimental data for supersonic helical tip speed propellers
[NASA-TM-83467] 05 p0742 N84-14874
Helicopter blade tips
[NASA-TM-77370] 06 p0782 N84-15119
Special opportunities in helicopter aerodynamics
[NASA-TM-84396] 07 p0946 N84-16138
Comparison of calculated and measured pressures on straight and swept-tip model rotor blades
[NASA-TM-85872] 07 p0947 N84-16143
Annulus wall boundary layer development in a compressor stage, including the effects of tip clearance 07 p0957 N84-16207
Noise of the SR-6 propeller model at 2 deg and 4 deg angles of attack
[NASA-TM-83515] 07 p1069 N84-16946
Space Shuttle main engine, powerhead structural modeling, stress and fatigue life analysis. Volume 4: Summary of investigation of unscheduled events and special tasks
[NASA-CR-171002] 11 p1625 N84-20638
Mach number correlation for a two-dimensional helicopter rotor-blade analysis in the tip region 12 p1765 N84-21509
Identification of airfoil characteristics for optimum wind turbine performance 12 p1765 N84-21510
Tip cap for a rotor blade
[NASA-CASE-LEW-13654-1] 13 p1931 N84-22560
A high temperature optical displacement measuring system — gas turbine blades
[PNR-90186] 13 p2044 N84-23261
A flow visualisation study of tip vortex formation
[ARL-AERO-NOTE-421] 14 p2100 N84-23603
Acoustic measurements of a full-scale rotor with four tip shapes. Volume 1: Text, appendices A and B
[NASA-TM-85878-VOL-1] 14 p2221 N84-24327
Abrasive tip treatment for use on compressor blades
[NASA-CR-174666] 15 p2343 N84-25065
Acoustic measurements of a full-scale rotor with four tip shapes. Volume 2: Appendices C, D, E and F
[NASA-TM-85878-VOL-2] 15 p2403 N84-25426
A numerical analysis for blade tip loadings on a thick bladed hovering helicopter rotor 17 p2599 N84-26658
BLADES (CUTTERS)
Precision cutting of millimeter wave ferrite materials
[AD-D011179] 24 p3891 N84-34839
BLANKETS
Feasibility of a laser or charged-particle-beam fusion-reactor concept with direct electric generation by magnetic-flux compression
[DE83-015735] 03 p0381 N84-12482
Double layered tailorable advanced blanket insulation
[NASA-CR-166600] 23 p3723 N84-33591
BLANKETS (FUSION REACTORS)
Fusion technology development plan
[DE83-012954] 01 p0150 N84-10965
Development of an engineering-scale nuclear test of a solid-breeder fusion-blanket concept
[DE83-016861] 01 p0151 N84-10992
High-field Tokamaks with DD-DT operation and tritium-breeding requirements
[DE83-013092] 02 p0296 N84-11939
Influence of a flowing-lithium environment on the fatigue and tensile properties of type 316 stainless steel
[DE84-000611] 04 p0503 N84-13295
Low-activation fusion-reactor design studies
[DE83-017688] 04 p0608 N84-14014
Materials needs for compact fusion reactors
[DE84-001366] 04 p0611 N84-14031
Fusion reactors: Physics and technology
[DE83-017148] 06 p1232 N84-18055
Blanket comparison and selection study, volume 1
[DE84-003657] 10 p1585 N84-20392
Fusion and high temperature electrolysis 11 p1740 N84-21350
Heavy ion fusion reactor HIBLIC-1. Conceptual design of heavy ion fusion reactor
[IPPJ-663] 12 p1909 N84-22438
Moving ring reactor KARIN-I
[IPPJ-660] 13 p2044 N84-23265
Contribution to the 6th annual report on special purpose materials for magnetically confined fusion reactors: Solid breeder materials
[DE84-008181] 15 p2411 N84-25470
Liquid metal breeder-coolant blanket concept
[DE84-006554] 20 p3302 N84-30971
BLAST LOADS
Dynamic pulse buckling, theory and experiment. Handbook
[AD-A130910] 01 p0095 N84-10621
Interaction of gas explosions with buildings 06 p0836 N84-15447
Identification of damage in hysteretic structures
[AD-A136342] 09 p1331 N84-18688
Reinforced concrete response to near field explosions
[AD-A135876] 09 p1332 N84-18696
Blast loadings of emergency exits for air-raid shelters type E
[FOA-C-20530-D4(D6)] 15 p2350 N84-25103
Revisions to the PETROS 4 shell response code
[AD-A140268] 16 p2502 N84-26059
Boundary condition and strain-rate effects on the response of blast-loaded beams
[AD-A140428] 16 p2502 N84-26061
BLASTOFF
U ROCKET LAUNCHING
BLASTS
Grit blasting a distributed roughness based on a 30% probability of exceedence
[AD-A138779] 13 p1974 N84-22809
BLEED-OFF
U PRESSURE REDUCTION
BLENDS
U MIXTURES
BLINDNESS
NT FLASH BLINDNESS
The 1980 and 1981 accident experience of civil airmen with selected visual pathology
[AD-A134898] 08 p1101 N84-17158
BLOCKING
Diagnostic studies of atmospheric blocking patterns 02 p0246 N84-11611
Correlation of laboratory-scale fire test methods for seat blocking layer materials with large-scale test results
[AD-A131666] 03 p0328 N84-12138
Blocking in the Southern Hemisphere, during 1975-1979
[INPE-2994-PRE/446] 07 p1032 N84-16696
Swirl, expansion ratio and blockage effects on confined turbulent flow
[NASA-CR-175391] 10 p1491 N84-19746
Localized blocking accounted for by slow variations of the zonal driving 12 p1855 N84-22083
The filling effect of blockages in wide angle diffusers
[BU-284] 15 p2332 N84-25005
A note on Delbrouck's approximate solution to the heterogeneous blocking problem
[MC-BW-190/83] 17 p2761 N84-27536
The role of boundary layer capacitance at blocking electrodes in the interpretation of dielectric cure data in adhesives
[AD-A142188] 19 p3016 N84-29121
BLOCKS
Assessment of ultrasonic reference block calibration methodology
[PB83-225870] 01 p0086 N84-10558
Identification of nonlinear systems
[RR-232] 05 p0739 N84-14850
Plastic flows of tubes and blocks 06 p0833 N84-15421
BLOOD
NT ERYTHROCYTES
NT LEUKOCYTES
NT LYMPHOCYTES
Changes in blood urea content under hypokinetic conditions 02 p0260 N84-11703
Study of biological samples obtained from victims of MGM Grand Hotel fire 04 p0514 N84-13374
Changes in some rheological parameters of blood in experiments simulating weightlessness 07 p1044 N84-16774
Effect of sydnocarb on hemodynamics and redistribution of blood during functional tests following six-hour antiorthostatic hypokinesia 07 p1045 N84-16777
Evaluation of human blood morphological composition during exercise in sealed chamber with different concentrations of ammonia 07 p1045 N84-16779
Comparative characteristics of erythron reactions to hypoxic hypoxia, immobilization and high-intensity stationary magnetic field 07 p1046 N84-16785
Bioecholocation method for inestigation of parameters of intracranial circulation of blood and fluid in man 07 p1047 N84-16788
Behavioral change of blood lactate metabolism
[PB84-100171] 08 p1204 N84-17850
Regulation of hematopoiesis in the suspended rat as a model for space flight 09 p1355 N84-18856
Some immunological mechanisms of adaptation of seamen to conditions of low latitude sailing 11 p1694 N84-21052
Skeletal muscle metabolism of sea-level natives following short-term high-altitude residence
[AD-A139323] 15 p2380 N84-25284
Artificial blood substitutes 15 p2430 N84-25594
A non-dimensional analysis of cardiovascular response to cold stress. Part 1: Identification of the physical parameters that govern the thermoregulatory function of the cardiovascular system
[AD-A138710] 17 p2745 N84-27429
Verification of an altitude decompression sickness prevention protocol for Shuttle operations utilizing a 10.s psi pressure stage
[NASA-TM-58259] 18 p2899 N84-28392
Effects of long-term low-level radiofrequency radiation exposure on rats. Volume 6: Hematological, serum chemistry, thyroxine, and protein electrophoresis evaluations
[AD-A141124] 19 p3063 N84-29434
Cerebral metabolism and blood brain transport: Toxicity of organophosphorous compounds
[AD-A142705] 22 p3630 N84-33005
BLOOD CIRCULATION
NT BRAIN CIRCULATION
NT CORONARY CIRCULATION
NT PERIPHERAL CIRCULATION
NT PULMONARY CIRCULATION
Dynamics of rheographic parameters of cerebral circulation and circulation in the extremities during active orthostatic test 02 p0260 N84-11700
Effect of redistribution of blood on severity of spatial position illusions in weightlessness 02 p0260 N84-11701
Effect of sydnocarb on hemodynamics and redistribution of blood during functional tests following six-hour antiorthostatic hypokinesia 07 p1045 N84-16777
Investigation of the microcirculation of the conjunctiva in airmen with the initial symptoms of cerebral atherosclerosis 08 p1199 N84-17818
Blood flow measurements under high-G conditions: Early prediction of Gz tolerance
[AD-A134653] 08 p1200 N84-17823
Value of the tilt table in the exploration of circulatory function 11 p1701 N84-21095
Morphological study of primate muscle fibers and microcirculation during head-down hypokinesia 15 p2377 N84-25262
USSR report: Space Biology and Aerospace Medicine, vol. 18, no. 3, May - June 1984
[JPRS-USB-84-005] 20 p3252 N84-30642
Effect of dihydroergotamine on human circulation during orthostatic tests 20 p3253 N84-30646
Circulatory changes in orthostatic position in the presence of hyperthermia 20 p3253 N84-30647
Simulation of physiological effects of negative pressure on man 20 p3255 N84-30662
Link between indexes for mental work capacity and parameters in circulatory system before and after physical stress 21 p3455 N84-31925
Regulation and characteristics of cold-induced vasodilation
[AD-A143797] 23 p3810 N84-34158
BLOOD COAGULATION
Dependence of blood coagulating and fibrinolytic systems on functional state of lysosomal system of neutrophil leukocytes during exposure of the body to low barometric pressure 20 p3255 N84-30661
Fibrinogen, plasminogen and tissue-type plasminogen activator: Their role in the fibinolytic system 23 p3804 N84-34121
BLOOD FLOW
Bone blood flow measured by (41)Ar clearance formed by (44)Ca(n,(-)) (41)Ar
[DE83-017600] 06 p0886 N84-15761
Wave propagation in a thin walled liquid filled initially stressed tube — blood flow
[MEAH-24] 07 p1005 N84-16519
Approximation dispersion equations for thin walled liquid filled tubes — blood flow
[MEAH-25] 07 p1005 N84-16520
The effects of high frequency positive pressure ventilation on hypoxic pulmonary vasoconstriction 10 p1549 N84-20151
Exploration of arterial function using Doppler flow determination. Application to aeronautical and space medicine 11 p1700 N84-21091
Development of limb volume measuring system
[NASA-CR-171789] 16 p2495 N84-26008

Ultrasonic and optical evaluation of surgical implant materials and devices. A durability study of pericardial bioprostheses
[NASA-CR-173437] 16 p2535 N84-26274
Use of the Doppler ultrasound method to evaluate the rate of blood flow in children with patent ductus arteriosus
[ISSN-0208-5658] 19 p3064 N84-29441
Experimental and clinical research on the effectiveness of ultrasound in vascular surgery
[ISSN-0208-5658] 19 p3064 N84-29442
Animal models of disuse osteoporosis 23 p3809 N84-34153

BLOOD PLASMA
Free amino acids of blood before and after short-term spaceflights 02 p0260 N84-11702
Study of metabolic sequelae of using positive intrapulmonary pressure during exposure to accelerations 07 p1045 N84-16776
Blood plasma amino acid levels in cosmonauts before and after 175-day mission aboard Salyut-6 15 p2375 N84-25250
Oxidative enzyme activity in rat blood plasma and subcellular fraction of liver following flight aboard Cosmos-936 biosatellite 15 p2377 N84-25265
Change in spectrum of blood hormones under influence of centimeter range microwaves 17 p2742 N84-27412
Blood plasma free amino acids under hypokinetic conditions 20 p3253 N84-30648
Correlation between plasma fibronectin level and mortality following experimental rate heat stress
[AD-A143383] 22 p3628 N84-32991

BLOOD PRESSURE
NT HYPERTENSION
NT LOWER BODY NEGATIVE PRESSURE
Hemodynamic reactions to positive intrathoracic pressure at +G sub z accelerations 02 p0259 N84-11698
Work at high altitude: A clinical and physiological study at the United Kingdom Infrared Telescope, Mauna Kea, Hawaii
[REPT-11] 12 p1864 N84-22147
Evaluation of some hemodynamic parameters of pilots during flights 15 p2376 N84-25256
A mathematical model of the cardiovascular system under +Gz stress 16 p2537 N84-26290
Nomogram for demonstrating change in central venous and pulmonary artery pressure during decompression of different parts of the body 20 p3255 N84-30660
Increase in whole-body peripheral vascular resistance during three hours of air or oxygen prebreathing
[NASA-TM-58261] 20 p3259 N84-30684
Changes in arterial pressure in static work as function of time of day and degree of disturbance in Earth's magnetic field 21 p3456 N84-31930

BLOOD VESSELS
NT AORTA
NT ARTERIES
NT CAPILLARIES (ANATOMY)
NT VEINS
Demonstration of gas bubbles in canine pulmonary artery and aorta by means of ultrasonic echography with intravenous air infusion 02 p0261 N84-11708
Bilateral carotid ligation and effects of electromagnetic field on conditioned reflex retention and cerebral nucleic acid levels 20 p3258 N84-30677

BLOOD VOLUME
Cardiac chamber volumes by echocardiography using a new mathematical method: A promising technique for zero-G use 09 p1358 N84-18874
Reliability and efficiency of Kubicek rheographic method for monitoring cardiac output and stroke volume 20 p3253 N84-30644

BLOWDOWN WIND TUNNELS
Aerodynamic and Propulsion Test Unit (APTU) performance with a vitiated air heater 20 p3144 N84-29964

BLOWING
Control of the forebody vortex orientation by asymmetric air injection. Part A: Application to enhance departure/spin recovery of fighter aircraft and Part B: Details of the flow structure 01 p0014 N84-10088
Analytical study of blowing boundary-layer control for subsonic V/STOL inlets
[NASA-TM-83576] 07 p0946 N84-16141
A blowup phenomenon of the working fluid in a two-phase closed thermosyphon 20 p3169 N84-30122
Stall delay by boundary layer blowing and/or suction 21 p3323 N84-31086

BLOWN FLAPS
U EXTERNALLY BLOWN FLAPS

BLUE GREEN ALGAE
Production of hydrogen by cyanobacteria
[PB83-226379] 01 p0054 N84-10347
The ultrastructural organization of the blue-green alga microcystis aeruginosa kuetz. Emend. Elenk in connection with toxicogenesis
[AD-A132540] 05 p0712 N84-14662
The effect of various carbon sources on the growth of single-celled cyanophyta
[NASA-TM-77090] 08 p1197 N84-17804

BLUE STARS
NT SYMBIOTIC STARS
Ultraviolet fluxes of blue straggler stars 24 p3974 N84-35165

BLUFF BODIES
Airloads on bluff bodies, with application to the rotor-induced downloads on tilt-rotor aircraft
[NASA-TM-84401] 02 p0174 N84-11142
The existence of Karman vortex streets of unequal vortex strengths and possible forms of wake flow behind bluff bodies
[DFVLR-FB-83-33] 12 p1766 N84-21519

BLUFFS (LANDFORMS)
U CLIFFS

BLUNT BODIES
Numerical analysis of dusty supersonic flow past blunt axisymmetric bodies
[UTIAS-267] 01 p0003 N84-10023
A comparison of measured and theoretical predictions for STS ascent and entry sonic booms 01 p0027 N84-10168
Numerical simulation of flow around a three-dimensional turret
[AD-A128686] 01 p0078 N84-10507
A generalized solution technique for the parabolized Navier-Stokes equations 02 p0173 N84-11137
An analytical method to calculate the flow field about blunt bodies of revolution at incidence in supersonic free stream flow
[CSIR-NIAST-82/72] 04 p0479 N84-13156
Universal single level implicit algorithm for gasdynamics
[NASA-CR-166531] 08 p1216 N84-17936
Fundamentals of hypersonics: Aerodynamics and heat transfer 16 p2441 N84-25660
Experimental pressure distributions on axisymmetric forebodies at Mach 3 and angles of attack up to 17.5 degrees
[AD-A140321] 16 p2442 N84-25668
Studies of boundary layer transition and surface roughness effects in hypersonic flow
[AD-A140803] 17 p2601 N84-26670
Large structure in the far wakes of two-dimensional bluff bodies
[AD-A143642] 23 p3747 N84-33751

BLUNT TRAILING EDGES
The effect of discrete spanwise regions of bleed on pseudo-two-dimensional base flow at transonic speeds
[ARL-AERO-NOTE-418] 07 p0945 N84-16132

BLURRING
Edge blurring in stacked X-ray film screen combinations
[DE84-009658] 19 p3027 N84-29200

BMC
U BONE MINERAL CONTENT

BOATS
Fast Multi Purpose Combat Craft Concept (FMPCC) for a high speed naval craft
[MBB-UT-18-82-OE] 02 p0207 N84-11351
Analysis of US Coast Guard HU-25A visual and radar detection performance
[AD-A133380] 06 p0784 N84-15138

BOATTAILS
Some aerodynamic characteristics of a projectile shape with a nonaxisymmetric boattail at Mach numbers of 0.91 and 3.02
[AD-A133755] 05 p0627 N84-14125
Numerical investigation of the aerodynamics and stability of a flared afterbody for axisymmetric projectiles at supersonic speeds
[AD-A136826] 10 p1420 N84-19289
Investigation of aerodynamics of non axisymmetric projectiles
[AD-A139107] 14 p2101 N84-23609
On the evaluation of boundary layer measurements on boattailed bodies of revolution in axisymmetric compressible subsonic flow
[DFVLR-FB-84-09] 18 p2837 N84-28010
Effect of boattail geometry on the acoustics of parallel baffles in ducts
[NASA-TM-85981] 19 p3099 N84-29686

BODIES
A lifting surface computer code with jet-in-crossflow interference effects. Volume 1: Theoretical description
[NASA-CR-166524] 07 p0947 N84-16147

BODIES OF REVOLUTION
NT CONCENTRIC SPHERES
NT CONICAL BODIES
NT CYLINDRICAL BODIES
NT FALLING SPHERES
NT POINCARE SPHERES
NT ROTATING CYLINDERS
NT ROTATING SPHERES
NT SPHERES
NT TORUSES
Navier-Stokes computational study of the influence of shell geometry on the Magnus effect at supersonic speeds
[AD-A130630] 01 p0079 N84-10516
Three-dimensional turbulent boundary layer on a body of revolution at incidence
[AD-A135454] 08 p1158 N84-17539
Unsteady boundary layers on thin bodies of revolution
[AD-A136257] 09 p1313 N84-18583
Stability of steady motion of planar body in field of central force 17 p2649 N84-26944
A ring source method for predicting the aerodynamic characteristics of bodies of revolution
[COA-8409] 19 p2957 N84-28744
Invariance of level of rotating liquid
[BLL-M-35611-(5828.4)] 20 p3182 N84-30220
Another look at the use of complex sources for the generation of bodies of revolution in incompressible flow
[CAR-8412] 21 p3398 N84-31555
Representation of potential flow about axisymmetric bodies with discrete singularities
[AD-A143526] 22 p3594 N84-32760

BODY CENTERED CUBIC LATTICES
Thermodynamic estimation of influence of alloying on sticking fault energy of bcc metals
[BLL-M-30130-(5828.4)] 01 p0151 N84-10995
Structural properties of epitaxial single layer metals on (110) B.C.C. metal substrates 06 p0817 N84-15326
Momentum distributions in hcp, bcc, and liquid He-4
[DE84-014679] 23 p3831 N84-34300

BODY COMPOSITION (BIOLOGY)
Gravity, body mass and composition, and metabolic rate 09 p1355 N84-18854

BODY FLUIDS
NT BLOOD
NT CEREBROSPINAL FLUID
NT ENDOLYMPH
NT ERYTHROCYTES
NT LEUKOCYTES
NT LYMPHOCYTES
NT SALIVA
NT URINE
The effects of dehydration on peripheral cooling
[AD-A130838] 06 p0887 N84-15767
Fluid intake at high altitudes 07 p1044 N84-16772
Detection of elements in biomedical fluids by laser-induced breakdown spectroscopy
[DE84-003838] 08 p1126 N84-17319
Influence of hydration level and body fluids on exercise performance in the heat
[AD-A139284] 15 p2380 N84-25281
Cardiovascular reactions on orthostasis and weightlessness 17 p2744 N84-27424
Fluid replacement during hypothermia
[AD-A143807] 23 p3810 N84-34159

BODY KINEMATICS
Drift analysis: A forgotten technique — statistical techniques in astronomy 09 p1411 N84-19226
Maximum-likelihood estimation of kinematic parameters — stellar motion 09 p1412 N84-19232
About the formation of particle energy spectrum by the statistical mechanism of particle acceleration: The character of particle energy gain in the statistical acceleration mechanism 24 p3993 N84-35268

BODY MEASUREMENT (BIOLOGY)
NT ANTHROPOMETRY
NT ELECTROPLETHYSMOGRAPHY
Blood flow measurements under high-G conditions: Early prediction of Gz tolerance
[AD-A134653] 08 p1200 N84-17823
Biological effects from electric fields associated with high voltage transmission lines
[DE84-005498] 12 p1864 N84-22143
Development of an EM-based lifeform monitor
[AD-A140583] 17 p2745 N84-27430

BODY SIZE (BIOLOGY)
Gravity, body mass and composition, and metabolic rate 09 p1355 N84-18854
Rat body size, composition and growth at hypo- and hypergravity
[NASA-CR-175393] 10 p1545 N84-20126
Anthropometric and mass distribution characteristics of the adult female, revised
[AD-A143096] 21 p3457 N84-31939
Uniform mass distribution properties and body size appropriate for the 50 percentile male aircrewmember, 1980 - 1990
[AD-A142946] 21 p3461 N84-31948

BODY TEMPERATURE
Aerobic fitness and the hypohydration response to exercise-heat stress
[AD-A132263] 05 p0713 N84-14669
Mathematical simulation of diver performance
[AD-A133844] 05 p0713 N84-14671
Effect of the microclimate on the night sleep and physical fitness of seamen during a cruise in the low latitudes
08 p1198 N84-17813
Set-point changes in hierarchically-arranged thermogenic systems 09 p1355 N84-18853
Cognitive performance change during a 6-hour hike at low temperature in simulated rain, at controlled walking rates
[AD-A138358] 13 p2020 N84-23100
Hyperpyrexia and head trauma
[AD-A139420] 14 p2185 N84-24090
Circadian pattern of simian functional parameters during hypokinesia and in the recovery period
20 p3253 N84-30650
Effect of body temperature on human work capacity
21 p3455 N84-31926
Mechanisms of thermoregulation of rats exposed to hypergravic fields 22 p3628 N84-32989
BODY TEMPERATURE (NON-BIOLOGICAL)
U TEMPERATURE
BODY TEMPERATURE REGULATION
U THERMOREGULATION
BODY WEIGHT
A survey of body fat content of U.S. Navy male personnel
[AD-A131500] 01 p0113 N84-10736
Effect of eleuterococcus extract on recovery processes in rats following seven-day hypokinesia
02 p0260 N84-11706
Gravity, body mass and composition, and metabolic rate 09 p1355 N84-18854
Upper to lower body muscular strength and endurance ratios for women and men
[AD-A143821] 23 p3811 N84-34168
BODY-WING AND TAIL CONFIGURATIONS
Wind tunnel investigations of glider fuselages with different waistings and wing arrangements
06 p0781 N84-15116
New investigation of short wings with lateral jets
[NASA-TM-77347] 06 p0782 N84-15124
Fuselage and nozzle pressure distributions of a 1/12-scale F-15 propulsion model at transonic speeds. Effect of fuselage modifications and nozzle variables
[NASA-TP-2333] 22 p3531 N84-32354
BODY-WING CONFIGURATIONS
Studies and vorticity effects by the Euler equations with emphasis on supersonic flow fields
[AD-A135118] 08 p1157 N84-17535
Body and canard effects on an attached-flow maneuver wing at Mach 1.62
[NASA-TP-2249] 09 p1250 N84-18163
Development of a computer code for 3-dimensional higher order panel method for subsonic potential flow
[FFA-136] 09 p1253 N84-18180
The generation of three-dimensional body-fitted coordinate systems for viscous flow problems
[AD-A136503] 09 p1314 N84-18588
Three-dimensional boundary layer calculations on wings, starting from the fuselage
[NLR-MP-82060-U] 09 p1317 N84-18603
Surface grid generation for wing-fuselage bodies
12 p1870 N84-22186
Visualisation of the vortex dominated flow around a delta wing-body combination using a water tunnel
[BAE-821/RES/6631] 13 p1988 N84-22904
Flight mechanical analysis of dynamic derivatives of the Dornier variation wind tunnel model
[DFVLR-FM-83-36] 15 p2255 N84-24541
Experimental investigation of the turbulent large scale temporal flow in the wing-body junction
[AD-A139836] 15 p2257 N84-24558
The study of an idealized wing/body junction
[AD-A139933] 15 p2257 N84-24559
Safety recommendations A-84-1 through -3
16 p2443 N84-25673
Configuration design studies and wind tunnel tests of an energy efficient transport with a high-aspect-ratio supercritical wing
[NASA-CR-3524] 19 p2955 N84-28727
Results of design studies and wind tunnel tests of high-aspect-ratio supercritical wings for an energy efficient transport
[NASA-CR-159332] 19 p2956 N84-28735
Transonic interference flow-field analysis for wing-body-pylon-store
[AD-A141811] 19 p2959 N84-28754
Active suppression of aeroelastic instabilities for forward swept wings
[AD-A141739] 19 p2964 N84-28783
Transonic equivalence rule with lift
[AD-A143591] 23 p3690 N84-33389
BOEING AIRCRAFT
NT B-52 AIRCRAFT
NT BOEING 707 AIRCRAFT
NT BOEING 727 AIRCRAFT
NT BOEING 737 AIRCRAFT
NT BOEING 747 AIRCRAFT
NT C-135 AIRCRAFT
NT E-3A AIRCRAFT
BOEING MILITARY AIRCRAFT
U MILITARY AIRCRAFT
BOEING 707 AIRCRAFT
Vertical drop test of a transport fuselage center section including the wheel wells
[NASA-TM-85706] 03 p0388 N84-12531
BOEING 727 AIRCRAFT
Advanced composite elevator for Boeing 727 aircraft. Volume 1: Technical summary
[NASA-CR-3290] 18 p2792 N84-27722
BOEING 737 AIRCRAFT
Advanced composite stabilizer for Boeing 737 aircraft
[NASA-CR-157639] 19 p2985 N84-28915
Flight service evaluation of two aluminum-brazed titanium spoilers
[NASA-CR-172371] 21 p3364 N84-31343
BOEING 747 AIRCRAFT
Work done to determine the source of errors on conditioned pressure transduce signals in the JT9D-7F turbofan engines used on SAA Boeing 747 aircraft
[NIAST-82/78] 04 p0486 N84-13192
Simultaneous cabin and ambient ozone measurements on two Boeing 747 airplanes. Volume 2: January to October 1978
[NASA-TM-81733] 12 p1917 N84-22488
Operational loads on B-747 aircraft: Design assumptions, actual experience and maintenance aspects 17 p2585 N84-26569
Operational loads on B-747 aircraft: Design assumptions, actual experience and maintenance aspects
[NLR-MP-83051-U] 17 p2606 N84-26697
BOGS
U MARSHLANDS
BOILERS
Hydrogen-evolution monitoring as a measure of steam-generator corrosion
[DE83-900677] 01 p0044 N84-10285
Effect of calcium hydroxide and carbonates on IGA and SCC of Alloy 600
[DE83-902229] 01 p0045 N84-10286
Design and construction of deep tubesheet crevice devices for producing intergranular attack of heat transfer tubing
[DE83-902228] 01 p0045 N84-10287
Open-cycle vapor compression heat pump
[PB83-228429] 01 p0059 N84-10384
Sodium-sulfate solubilities in high-temperature (250 to 3740C) salt and acid solutions
[DE83-015813] 02 p0191 N84-11241
Assessment of TRAC-PF1 and RELAP5/MOD1 codes with GE large-vessel blowdown test
[DE83-015384] 03 p0438 N84-12874
German/Indian cooperation program for solar powered water pumps, phase 1
[BMFT-FB-T-83-171] 07 p1026 N84-16851
Comparison of field performance of a high efficiency heat pump with and without a desuperheater water heater
[DE84-005816] 11 p1653 N84-20795
Advanced cogeneration research study: Executive summary
[NASA-CR-173467] 12 p1841 N84-22005
Mathematical model of power station blocks with forced circulation steam generation
[DRIC-T-7008] 15 p2389 N84-25332
Eddy current testing of steam generator tubes
[BLL-RISLEY-TRANS-4584-(9091.9)] 22 p3606 N84-32848
Cogeneration Technology Alternatives Study (CTAS). Volume 2: Comparison and evaluation of results
[NASA-TM-81401] 23 p3790 N84-34038
BOILING
NT NUCLEATE BOILING
Studies on sodium boiling phenomena in out of pile rod bundles for various accidental situations in Liquid Metal Fast Breeder Reactors (LMFBR) experiments and interpretations 06 p0842 N84-15493
Temperature distributions, boiling and dry-out behind local blockages — liquid metal fast breeder reactors (LMFBR) 06 p0843 N84-15495
Sodium boiling experiments in bundle geometries under fast transient and steady state conditions — fast breeder reactor safety analysis 06 p0843 N84-15496
Computation of the thermohydraulics in subassemblies for accident situations — liquid metal fast breeder reactors (LMFBR) 06 p0843 N84-15499
Concentration of sulphuric acid: Premature failure of Bamag pots
[MRL-R-885] 08 p1123 N84-17301
Preliminary experiments with an electro-osmotic heat pipe laboratory model
[AD-B081344] 15 p2332 N84-25004
Ammonia boiling in long tubes. Heat transfer and charge loss in vertical and horizontal tubes
[CETIM-14-C-011] 21 p3403 N84-31588
BOILING WATER REACTORS
Evaluation of stainless steel pipe cracking: Causes and fixes
[DE84-003459] 09 p1285 N84-18391
Acoustic leak detection and ultrasonic crack detection
[DE84-004037] 09 p1328 N84-18670
BOLIVIA
Radar-visible wind streaks in the Altiplano of Bolivia
13 p2088 N84-23527
BOLOGRAMS
U BOLOMETERS
BOLOMETERS
Far infrared studies on superconductors and heat-capacity studies on liquid crystals
[DE84-001105] 04 p0613 N84-14046
Design of an adiabatic demagnetization refrigerator for studies in astrophysics 06 p0821 N84-15352
On 3He bolometer systems
[NASA-CR-175325] 06 p0846 N84-15520
Analysis of the performance of the free electron bolometer
[AD-A134139] 07 p1008 N84-16533
Thermal detectors as X-ray spectrometers
[NASA-TM-86092] 14 p2148 N84-23866
Historical carbon dioxide: Abundances derived from the Smithsonian spectrobolograms
[DOE/NBB-0063] 23 p3793 N84-34056
BOLTS
Improving the fatigue performance of thick aluminum alloy bolted joints by hole cold-expansion and the use of interference-fit steel bushes
[ARL-STRUC-NOTE-486] 04 p0543 N84-13578
Bolt in bore boundaries 06 p0861 N84-15608
Strength of anchor bolts in masonry
[PB84-111160] 09 p1297 N84-18479
The use of interference-fit bolts or bushes and hole cold expansion for increasing the fatigue life of thick-section aluminium alloy bolted joints
[AR-002-973] 09 p1329 N84-18676
Optimized bolted joint
[NASA-CASE-LAR-13250-1] 11 p1664 N84-20859
Strength of bolted joints in laminated composites
13 p2002 N84-22992
Blast loadings of emergency exits for air-raid shelters type E
[FOA-C-20530-D4(D6)] 15 p2350 N84-25103
Corrosion fatigue of high strength fastener materials in seawater
[NASA-CR-174677] 17 p2723 N84-27328
Eyebolts for lift suspension
[NPL-DMA(A)-70] 20 p3195 N84-30292
Strains in an elastic plate containing an interference-fit bolt near a free edge
[AR-003-012] 20 p3201 N84-30333
Hydrogen fatigue test — plated bolts
[CETIM-12-F-400] 21 p3369 N84-31373
Testing and evaluation of Vespel up to 450 deg F when used in nuts and bolts as a self-locking element
[NASA-TM-86456] 21 p3412 N84-31639
Nonlinear analysis of a bolted marine riser connector using NASTRAN substructuring
22 p3610 N84-32875
Improving the fatigue life of the Mirage IIIO wing main spar
[ARL-STRUC-REPT-398] 24 p3853 N84-34437
BOLTZMANN TRANSPORT EQUATION
Transient electron transport in gases
[DE83-009188] 02 p0291 N84-11906
The shock wave structure in one-component gas and in binary gas mixture
[ISSN-0208-5658] 03 p0370 N84-12407
Transition flow ion transport via integral Boltzmann equation
[UTIAS-269] 03 p0432 N84-12828
General path-integral successive-collision solution of the bounded dynamic multi-swarm problem
[AD-A136961] 10 p1570 N84-20287
A method for solving Boltzmann's equation in semiconductors by expansion in Legendre polynomials
[EUT-83-E-134] 10 p1590 N84-20420
Loeb solutions of the Boltzmann equation
[CTH-MATH-1983-82] 13 p1991 N84-22926

BOLTZMANN-VLASOV EQUATION
Canonical derivation of the Vlasov-Coulomb noncanonical poisson structure
[DE84-002909] 07 p1064 N84-16900
Renormalization theory of stationary homogeneous strong turbulence in a collisionless plasma
[DE84-006724] 12 p1910 N84-22443
Complemented Scharfetter-Gummel condition 17 p2636 N84-26864
Analytic solution for the problem of gridded gap-electron flow interaction
[DE84-008975] 20 p3181 N84-30209
BOLZA PROBLEMS
Study of the optimal control problem solving in the Bolza form by the finite element method
[INPE-2750-PRE/326] 04 p0588 N84-13884
BOMBER AIRCRAFT
NT A-6 AIRCRAFT
NT B-1 AIRCRAFT
NT B-52 AIRCRAFT
Reliability growth programs of major weapon systems in the aeronautical systems division
[AD-A134380] 07 p1013 N84-16571
US military aircraft cost handbook
[AD-A136035] 09 p1249 N84-18158
Near-optimal finite solutions to the 3 and 4 step discrete evasion games
[AD-A136811] 10 p1574 N84-20314
Ilyushin design bureau achievements profiled 14 p2093 N84-23554
BOMBS (ORDNANCE)
Improved acrylic systems for rapid runway repair
[AD-A130389] 01 p0016 N84-10103
Ultraviolet curable resin system for rapid runway repair
[AD-A130364] 01 p0016 N84-10104
Connecting aircraft and external loads 06 p0770 N84-15046
Mach 0.6 to 3.0 flows over rectangular cavities
[AD-A134579] 07 p0948 N84-16153
Evaluation of selected commercial construction equipment for bomb damage repair
[AD-A140907] 17 p2611 N84-26714
Simulator design features for air-to-ground bombing. Part 1: Performance experiment 1
[AD-A141190] 18 p2798 N84-27753
Bomb damage repair: Precast slab design
[AD-A141687] 19 p2970 N84-28819
Aircraft loading adapter for use with ordnance lift vehicle
[AD-D011147] 23 p3696 N84-33421
BOMBS (PRESSURE GAGES)
U PRESSURE GAGES
BOMBS (SAMPLERS)
U SAMPLERS
BOND GRAPHS
Bond graph time simulations using extracted modal parameters from the Nova spaceframe
[DE84-010918] 20 p3273 N84-30779
BONDING
NT ADHESIVE BONDING
NT CERAMIC BONDING
NT EXPLOSIVE WELDING
NT METAL BONDING
NT METAL-METAL BONDING
NT REACTION BONDING
NT RESIN BONDING
Life considerations of the shuttle orbiter densified-tile thermal protection system 01 p0025 N84-10159
Bond characteristics of epoxy coated reinforced bars
[PB83-205518] 01 p0058 N84-10379
Interface bonding of shotcrete reinforced brick masonry assemblages, volume 1
[PB83-223206] 01 p0058 N84-10382
Interface bonding of shotcrete reinforced brick masonry assemblages. Volume 2: Appendices
[PB83-223214] 01 p0059 N84-10383
Development of nondestructive full-test requirements for gold wires on multilayer thick-film hybrid microcircuits
[DE83-014368] 01 p0093 N84-10802
Effects of bonding temperatures on fatigue crack growth
[AD-A130396] 01 p0094 N84-10615
Cryogenic insulation strength and bond tester
[NASA-CASE-MFS-25910-1] 02 p0199 N84-11297
Fiber composite materials research in the UK: Assessment report
[AD-A132386] 04 p0492 N84-13226
Cell-substrate bonding system design and development
[DE84-000963] 04 p0558 N84-13678
Heat sealable, flame and abrasion resistant coated fabric
[NASA-CASE-MSC-18382-2] 05 p0658 N84-14324
Ultrasonic inspection for roadwheel bondline quality
[AD-A132608] 05 p0690 N84-14531
Feasibility of thermal NDE methods for Naval thermal spray coatings
[DE84-001463] 06 p0855 N84-15569
Surface analysis in composite bonding
[NASA-CR-175353] 07 p0967 N84-16264
Characterization of fiber composite flywheels by ultrasonic imaging techniques
[DE84-004689] 10 p1452 N84-19487
Pretreatment of Kapton-coated cable for epoxy adhesion
[DE84-006265] 11 p1661 N84-20837
Advanced leading edge thermal-structure concept. Direct bond reusable surface insulation to a composite structure
[NASA-TM-85941] 14 p2113 N84-23665
Hardness of wet snow, 2 15 p2353 N84-25119
Measurement of the peel and pull-off strength of coatings and finishes with pressure-sensitive tapes
[ESA-PSS-01-713-ISSUE-1] 16 p2472 N84-25847
Science of adhesion
[PB84-176734] 16 p2473 N84-25852
The role of chemical bonding in adhesion
[AD-A140937] 18 p2818 N84-27891
Ceramic-glass-metal seal by microwave heating
[DE84-011283] 20 p3196 N84-30295
Composite structure repair
[AD-A141456] 21 p3358 N84-31300
Crack problems for bonded nonhomogeneous materials under antiplane shear loading
[NASA-CR-173892] 22 p3609 N84-32863
Bonding materials by gas-phase precipitation 23 p3709 N84-33512
Multilayer ceramic capacitor
[AD-D011166] 23 p3742 N84-33723
BONE DEMINERALIZATION
Bone and calcium alterations during spaceflight 02 p0263 N84-11729
Evaluation of changes in human axial skeletal bone structures during long-term spaceflights 15 p2375 N84-25251
A study of stress-free living bone and its application to space flight
[NASA-CR-171786] 16 p2535 N84-26275
Research opportunities in bone demineralization, phase 3
[NASA-CR-3795] 17 p2743 N84-27417
High resolution bone mineral densitometry with a gamma camera
[NASA-TM-85386] 18 p2899 N84-28391
Ultrasound distribution and bone calcium content in experimental animals submitted to hypokinesia and weightlessness 20 p3254 N84-30652
The Gravity Relevance in Bone Mineralization Processes — conference
[ESA-SP-203] 23 p3807 N84-34138
Bone changes in acutely immobilized patients: Results and perspectives 23 p3807 N84-34140
The potential of low dose computed tomography in assessing space flight induced bone loss 23 p3807 N84-34141
Mechanochemical effects in demineralization and mineralization of bone 23 p3808 N84-34146
Electromechanical hypothesis of bone demineralization in weightlessness 23 p3808 N84-34149
BONE MARROW
Shielding part of bone marrow as a method of local protection against cosmic radiation 07 p1044 N84-16771
BONE MINERAL CONTENT
Bone mineral analysis of rat vertebrae following space flight: COSMOS 1129
[AD-A133178] 07 p1042 N84-16757
High resolution bone mineral densitometry with a gamma camera
[NASA-TM-85386] 18 p2899 N84-28391
Ultrasound distribution and bone calcium content in experimental animals submitted to hypokinesia and weightlessness 20 p3254 N84-30652
The Gravity Relevance in Bone Mineralization Processes — conference
[ESA-SP-203] 23 p3807 N84-34138
Current methods of evaluation of bone mineral content 23 p3807 N84-34142
Urinary excretion of hydroxylysyl glycosides as an index of bone metabolism 23 p3808 N84-34143
Analysis of collagen and noncollagenous proteins in bone particles fractionated by gradient density fractionation 23 p3808 N84-34144
Mechanochemical effects in demineralization and mineralization of bone 23 p3808 N84-34146
Glycosaminoglycans in fetal bone mineralization 23 p3809 N84-34156
BONES
NT CARTILAGE
NT CEREBRUM
NT FEMUR
NT SCAPULA
NT ULNA
Summary of study group session discussions 02 p0264 N84-11739
Bone blood flow measured by (41)Ar clearance formed by (44)Ca(n,(-)) (41)Ar
[DE83-017600] 06 p0686 N84-15761
Stress fractures: The remodelling response to excessive repetitive loading
[AD-A130881] 06 p0687 N84-15765
Structural development and gravity 09 p1353 N84-18842
Simulating certain aspects of hypogravity: Effects on the mandibular incisors of suspended rats (PULEH model) 09 p1353 N84-18844
Morphological and histochemical studies of bone and cartilage during periods of stimulated weightlessness 09 p1354 N84-18847
Regulation of bone mass by mechanical strain
[NASA-CR-173363] 09 p1360 N84-18888
Control of bone remodelling by applied dynamic loads
[NASA-CR-173287] 09 p1361 N84-18889
Biomedical Research Division significant accomplishments for FY 1983
[NASA-TM-85929] 10 p1545 N84-20128
Research opportunities in bone demineralization, phase 3 11 p1693 N84-21046
A study of stress-free living bone and its application to space flight
[NASA-CR-171786] 16 p2535 N84-26275
On Froude's number and the thickness of bones during growth 23 p3807 N84-34139
The so-called Wolff's law and the adaptation of bone to microgravity 23 p3808 N84-34145
Evaluation of the gravity relevance on bone stresses by in vivo measurements 23 p3808 N84-34148
Experimental investigation of the effect of electrets on bone healing 23 p3809 N84-34150
Sensitivity of bone cell populations to weightlessness and simulated weightlessness 23 p3809 N84-34151
Morphometric and biophysical study of bone tissue in immobilization-induced osteoporosis in the growing rat 23 p3809 N84-34152
Use of primate model in weightlessness bone physiology: General problems 23 p3809 N84-34154
Use of primate model in weightlessness bone physiology. Histological approach after iliac crest biopsy 23 p3809 N84-34155
BOOLEAN ALGEBRA
NT BOOLEAN FUNCTIONS
Splice and Malcev algebras 04 p0593 N84-13911
Foundations of computer science 4. Distributed systems. Part 2: Semantics and logic
[MATH-CENTRE-TRACTS-159-PT-2] 08 p1208 N84-17879
Ten years of Hoare's logic, a survey. Part 2: Nondeterminism 08 p1209 N84-17882
Image filtering with Boolean and statistical operators
[AD-A138421] 12 p1908 N84-22428
Vector expansion transformation of logic algebra
[AD-P002349] 14 p2192 N84-24140
Four-valued logic star algorithm and their applications
[AD-P002370] 14 p2194 N84-24161
The optimization of GMC over GF(p)
[AD-P002373] 14 p2195 N84-24164
Switching net models: Rudimentary behavior, representations and applications
[AD-A140047] 15 p2398 N84-25391
Investigation of three dimensional mesh generation with precise controls
[AD-A142246] 19 p3089 N84-29614
Boolean computation of optimum hitting sets
[DE84-012920] 20 p3283 N84-30842
Economical multiplication of Boolean equations 21 p3484 N84-32079
Boolean operations in solid modelling: Boundary evaluation and merging algorithms
[TM-26] 23 p3818 N84-34207
BOOLEAN FUNCTIONS
Roots of N-valued switching functions
[AD-P002350] 14 p2192 N84-24141
BOOM
Measurement of turbulent wind velocities using a rotating boom apparatus
[DE84-012417] 21 p3448 N84-31875
BOOMS (EQUIPMENT)
Rotating-boom facility for evaluation of wind characteristics approaching a wind-turbine blade
[DE83-013117] 01 p0017 N84-10107
Large space instrumentation to measure the interaction between space structures and the environment
[AD-A129990] 01 p0028 N84-10179

A passively controlled appendage deployment system for the San Marco D/L spacecraft
15 p2347 N84-25061
Design of incident field B-dot sensor for the nose boom of NASA F-106B aircraft
[AD-A141765] 19 p2964 N84-28787
Optimization of the capture process for a rigid satellite stabilized by gravity gradient
[INPE-3184-PRE/549] 21 p3349 N84-31245
BOOST
U ACCELERATION (PHYSICS)
BOOSTER ROCKET ENGINES
NT APOGEE BOOST MOTORS
NT P-1 ENGINE
Solid rocket booster thrust vector control subsystem description
[NASA-TM-82546] 01 p0029 N84-10183
The SRB nozzle erosion related flow analysis
[NASA-CR-170961] 07 p0965 N84-16251
The Earth synchronous satellite carrier rocket
[AD-A138504] 12 p1778 N84-21602
Analysis of acoustic chamber pressure oscillations in shuttle high-pressure SRB's 13 p1946 N84-22651
Space Shuttle with rail system and aft thrust structure securing solid rocket boosters to external tank
[NASA-CASE-MFS-25853-1] 18 p2802 N84-27784
Elliptical orbit performance computer program
[NASA-CR-165832] 18 p2920 N84-28515
LOX/CH4 for reusable high performance booster engines 20 p3138 N84-29926
BOOSTERS
STS-5 (Space Transport System-5) fish kill, Kennedy Space Center, Florida
[AD-A132958] 05 p0700 N84-14595
BOOSTERS (EXPLOSIVES)
Feasibility demonstration of booster cross-over system for 3 1/2 inch SRB/MLP frangible nut system
[NASA-CR-170895] 01 p0029 N84-10182
BOOTS (FOOTWEAR)
Overuse injuries of the lower extremities associated with marching, jogging and running. A review
[AD-A134672] 08 p1200 N84-17824
BORANES
NT CARBORANE
Combustion thermodynamics of some boron-nitrogen-hydrogen compounds
13 p1951 N84-22684
BORATES
Studies on B-(Pyrazol-1'-yl)pyrazaboles
[AD-A141115] 19 p2998 N84-28997
BORAZON (TRADEMARK)
U BORON NITRIDES
BOREHOLES
Feasibility of using sonic techniques to estimate in-situ stresses
[DE83-016890] 01 p0097 N84-10634
Development of a method and apparatus for quantitative assessment of the iron content of rocks and ores by means of data obtained from borehole radiometry
[BLL-M-28724-(5828.4)] 02 p0246 N84-11613
Petrographic examination of Bell Canyon Tests (BCT) 1-FF field grouts over a 3-year period
[DE83-016226] 04 p0555 N84-13654
Seismic investigation of the Multi-Well Experiment site
[DE84-000943] 04 p0555 N84-13655
Marine seismic System(MSS) deployment. Phase IV: Investigation of techniques and deployment scenarios for installation of tri-axial seismometer in a borehole in the deep ocean
[AD-A132300] 04 p0563 N84-13710
A method for stratigraphic correlation of several boreholes
[CSIR-TWISK-281] 07 p1032 N84-16692
Alterant geophysical tomography
[DE84-004794] 11 p1671 N84-20907
Analysis of production data from the Krafla geothermal field, Iceland
[DE84-006881] 13 p2006 N84-23014
Tube waves recorded in a seismic crosshole experiment
[FOA-C-20521-E1] 15 p2368 N84-25206
Microexplosions in boreholes
[FOA-C-20523-E1] 15 p2406 N84-25445
Marine Seismic System (MSS) deployment. Phase 5: An investigation of techniques and deployment scenarios for installation of triaxial seismometer in a borehole in the deep ocean
[AD-A142873] 21 p3444 N84-31850
Surplus Facilities Management Program. Post-remedial-action survey report for SNAP-8 Experimental Reactor Facility, building 010 site, Santa Susana Field Laboratories, Rockwell International, Ventura County, California
[DE84-009591] 21 p3497 N84-32165
Diffraction of waves by bed boundaries in an open borehole 23 p3776 N84-33939
Radial inversion of TE measurements in a borehole
23 p3776 N84-33940
Small orifice laser cutting machine viewed
24 p3891 N84-34642
BORES
U CAVITIES
BORESIGHT ERROR
Electromagnetic waves near dielectric structures
[AD-A132630] 05 p0670 N84-14403
Radome analysis
[AD-A136805] 10 p1481 N84-19677
BORESIGHTS
Alignment telescope for Antares
[DE83-014179] 01 p0088 N84-10576
BORIDES
NT TITANIUM BORIDES
Novel hard metal compositions and properties
[DE84-001736] 05 p0656 N84-14310
Method of making a light weight battery plaque
[NASA-CASE-LEW-13349-1] 13 p1960 N84-22734
BORING MACHINES
Load control of a 300 hp tunnelling machine: Controller modification and testing for underground trials
[RR-230] 05 p0688 N84-14524
Study on deep-hole boring by BTA system solid boring tool: Burnishing effect and guiding action of tool head
07 p0984 N84-16372
Broaching today 09 p1293 N84-18450
BORN APPROXIMATION
Waveform inversion of mantle Love waves: The born seismogram approach
[NASA-CR-174483] 02 p0248 N84-11622
Elastic-wave inverse scattering in non-destructive evaluation
[DE83-017683] 03 p0386 N84-12513
Ultrasonic 3-D reconstruction of inclusions in solids using the inverse Born algorithm
[DE83-018082] 04 p0595 N84-13928
Effects of a finite aperture on the inverse born approximation
[DE83-018086] 04 p0596 N84-13930
The Cauchy and Born hypotheses for crystals
[AD-A136374] 09 p1395 N84-19107
Calculation procedures for variational, Born and exact solutions for electromagnetic scattering from two randomly separated dielectric Rayleigh cylinders
[AD-A138543] 13 p1982 N84-22865
Profile inversion of a planar medium with a line source or a point source 23 p3776 N84-33938
A simple DWBA (Franck-Condon) treatment of H-atom transfers between two heavy particles
[AD-A143867] 23 p3822 N84-34236
BORN-MAYER EQUATION
U BORN APPROXIMATION
BORN-OPPENHEIMER APPROXIMATION
Shock induced molecular excitation in solids
[AD-A132236] 04 p0596 N84-13935
BOROHYDRIDES
Catalysis of nitramine propellants by mmtal borohydrides
[AD-A133215] 06 p0812 N84-15285
BORON
NT BORON FIBERS
Materials research for advanced inertial instrumentation. Task 2: Gas bearing material development
[AD-A130471] 01 p0007 N84-10044
Chemiluminescence and laser induced fluorescence of boron atom reactions
[AD-A131709] 03 p0380 N84-12471
Beam processing for high-efficiency Si solar cells
[DE84-002059] 06 p0874 N84-15690
Studies in boron chemistry
[AD-A135364] 09 p1280 N84-18360
Mechanical properties of a modified 2 1/4 Cr-1 Mo steel for pressure vessel applications
[DE84-004105] 09 p1285 N84-18394
Boron in the marine atmosphere
13 p2010 N84-23038
Materials research for advanced inertial instrumentation. Task 2: Gas bearing material development
[AD-A140435] 16 p2446 N84-25690
Chemical vapor deposition and reactive diffusion of boron on beryllium
[AD-D011043] 19 p2995 N84-28976
Influence of oxygen on defect production in electron-irradiated, boron-doped silicon
19 p3045 N84-29320
Environment and fracture
[DE84-011454] 21 p3367 N84-31360
Studies of hydrogenated amorphous silicon
[DE84-011888] 21 p3505 N84-32211
Influence of microalloying with titanium and boron on cold resistance of structural steel
[BLL-M-35698-(5828.4)] 22 p3551 N84-32483
Role of grain size on the brittle to ductile transition of the strongly ordered alloy Ni3Al
[DE84-014904] 22 p3556 N84-32519
Investigation of rapidly solidified Ni3Al-based alloys
[AD-A144174] 24 p3883 N84-34604
BORON ALLOYS
Magnetic susceptibility of Fe-B, Fe - P and Ni - P alloys
[BLL-M-35126-(5828.4)] 01 p0138 N84-10902
Moessbauer spectroscopy study of amorphous Fe87B11Au2 ribbon and its crystallization products
[DE83-018091] 06 p0924 N84-16010
BORON CARBIDES
Investigations on the system boron-carbon silicon
[NASA-TM-77375] 09 p1275 N84-18324
Thermal conductivity behavior of boron carbides
[NASA-CR-173165] 09 p1316 N84-18600
Theoretical influence of the deposition conditions on the uniformity of boron carbide coatings
13 p1954 N84-22707
Liquid metal infiltration of an aluminum alloy into a packed column of B4C particles
[DE84-012136] 20 p3158 N84-30055
BORON COMPOUNDS
NT BORANES
NT BORATES
NT BORIDES
NT BOROHYDRIDES
NT BORON CARBIDES
NT BORON HYDRIDES
NT BORON NITRIDES
NT BORON PHOSPHIDES
NT CARBORANE
NT TITANIUM BORIDES
Expanded ignition effectiveness tests of selected igniter materials with Navy propellants
[AD-A134704] 08 p1125 N84-17312
Chemical vapour deposition coating of hard metals with special reference to boron and boron compounds
[BLL-RISLEY-TRANS-4877] 12 p1795 N84-21705
BORON FIBERS
Fracture behavior of unidirectional boron/aluminum composite laminates
[NASA-CR-3753] 06 p0797 N84-15196
Method for strengthening boron fibers
[NASA-CASE-LEW-13826-2] 15 p2284 N84-24711
BORON HYDRIDES
NT BORANES
NT CARBORANE
Kinetics and mechanisms of thermolytic interconversions of boron hydrides
[AD-A143525] 22 p3547 N84-32455
BORON NITRIDES
Effect of high pressures and temperatures in pyrolytic boron nitride
[CSIR-1684] 01 p0030 N84-10189
Structures and properties of new types of cubical boron nitride
[CSIR-TRANS-1683] 01 p0030 N84-10190
Genera use of CBN in tool grinding: Technology and economics
[CSIR-TRANS-1688] 01 p0056 N84-10367
Aspects of the grinding process
[CSIR-TRANS-1694] 08 p1140 N84-17416
Dressing methods for grinding wheels made of superhard abrasive materials
[CSIR-TRANS-1700] 08 p1141 N84-17419
On the use of diamond and cubical boron nitride abrasives in automatic honing applications
[CSIR-TRANS-1640] 08 p1141 N84-17420
The current status of diamond and cubic boron nitride composites 09 p1292 N84-18441
Production of cubic crystalline boron nitride
[BMFT-FB-T-84-025] 16 p2471 N84-25836
Turning of hardened ferrous materials with homogeneous CBN tool tips
[CSIR-TRANS-1728] 21 p3375 N84-31418
Grinding with Borazon: Progress and rewards
[CSIR-TRANS-1718] 21 p3375 N84-31420
Internal grinding of high-speed steels: Shorter processing times with boron nitride grinding tools
[CSIR-TRANS-1719] 21 p3376 N84-31421
Development and testing of glass coatings for Hexanite-A powders
[CSIR-TRANS-1747] 22 p3557 N84-32527
Structure of polycrystalline boron nitride as determined by electron microscopic thin sections
[CSIR-TRANS-1738] 22 p3558 N84-32533
Economic use of CBN grinding tools in the production of jet turbine components
[CSIR-TRANS-1736] 22 p3563 N84-32561
Economical grinding of steel and sintered carbides using superhard abrasives and high temperature-resistant bonds
[CSIR-TRANS-1744] 22 p3563 N84-32562

EPR investigation of inclusions in cubic boron nitride crystals
[CSIR-TRANS-1752] 22 p3661 N84-33207
Crystallization of cubic boron nitride in the presence of silicon
[CSIR-TRANS-1753] 23 p3829 N84-34289

BORON PHOSPHIDES
The preparation of BP single crystals by high pressure flux method
[NASA-TM-77389] 10 p1587 N84-20403

BORON REINFORCED MATERIALS
Residual strength of five boron/aluminum laminates with crack-like notches after fatigue loading
[NASA-CR-3815] 21 p3357 N84-31290
Fracture mechanism of carbon and boron reinforced plastics with shear between layers
24 p3872 N84-34539

BOROSILICATE GLASS
Raising the surface damage threshold of neutral solution processed BK-7 by pulse laser irradiation
[DE83-012660] 02 p0225 N84-11477
Vitrification of highly-loaded SDS zeolites
[DE83-006198] 02 p0292 N84-11915
Characterization of borosilicate glass containing Savannah River Plant radioactive waste. 2: Microstructure and durability
[DE83-011246] 02 p0292 N84-11916
Borophosphate vitreous electrolytes: The relationship between local order, thermal stability and ion transport
11 p1743 N84-21372
Effect of fatigue and thermal loads on silicon carbon fiber reinforced glass matrix composites
[DE84-007464] 14 p2121 N84-23710

BOSE-CHAUDHURI-HOCQUENGHEM CODES
U BCH CODES

BOSE-EINSTEIN STATISTICS
U QUANTUM STATISTICS

BOSON FIELDS
Spherically symmetric radiation in gravitational collapse 22 p3677 N84-33312

BOSONS
NT ALPHA PARTICLES
NT LIGHT BEAMS
NT MESONS
NT MUONS
NT PHOTONS
NT PIONS
W decay in supergravity GUTS
[DE83-015144] 02 p0291 N84-11911
Search for Hadron jets and large transverse momentum electrons at the SPS pp collider
06 p0911 N84-15913
Supersymmetry in physics: An algebraic overview
[DE84-007289] 15 p2399 N84-25395
Weak corrections to the e+e-yields mu+mu-asymmetry
[DO-TH-83-16] 20 p3297 N84-30939
Electroweak interaction parameters
[DE84-012910] 21 p3496 N84-32159
Axions, neutrinos and strings: The formation of structure in an SO(10) universe
[NASA-TM-86139] 22 p3678 N84-33317
Implications of a class of grand unified theories for large scale structure in the universe
[NASA-TM-86146] 24 p3967 N84-35240

BOTANY
NT GEOBOTANY

BOULES
Manufacturing methods and technology engineering for 'Growth of large diameter Nd:YAG laser crystals'
[AD-A139902] 15 p2413 N84-25486

BOUNDARIES
NT FLUID BOUNDARIES
NT FREE BOUNDARIES
NT GAS-SOLID INTERFACES
NT GRAIN BOUNDARIES
NT LIQUID-LIQUID INTERFACES
NT LIQUID-SOLID INTERFACES
NT LIQUID-VAPOR INTERFACES
On setting up boundary conditions for soil-structure interaction problems with DYNALK (a ling from TENSOR to DYNA3D)
[DE83-016914] 02 p0206 N84-11344
Rays and modes on concave surfaces
[AD-A131411] 02 p0210 N84-11371
Boundary behavior of harmonic functions
02 p0283 N84-11857
The emergence and propagation of a phase boundary in an elastic bar
[AD-A132275] 04 p0549 N84-13616
On the Harnack constant and the boundary behavior of Harnack functions 04 p0576 N84-13796
Quasiconformal mappings with free boundary components 04 p0577 N84-13801
Systematics of the equatorward diffuse auroral boundary
[AD-A132897] 05 p0704 N84-14617
Numerical methods for tracking interfaces
[DE84-001730] 06 p0902 N84-15854
Theory of pulse propagation in fluid saturated porous layers
[DE84-002714] 07 p1003 N84-16503
Perturbation solution for gas flow in a tapered rotor
[DE84-002930] 07 p1003 N84-16507
Clines induced by a geographical barrier
[MC-TW-244/83] 07 p1065 N84-16908
Estimation techniques for transport equations
[AD-A135092] 08 p1218 N84-17945
Numerical determination of the effects of boundary conditions on the instability of composite panels with cutouts
[AD-A136772] 10 p1517 N84-19931
Quenched magnetite in cretaceous-tertiary boundary microtektite-like spheroid 11 p1755 N84-21459
Detection of bump-on-tail reduced electron velocity distributions at the electron foreshock boundary
[NASA-TM-86067] 12 p1922 N84-22518
Exact solution to problem of interaction between wedge moving at supersonic velocity and interface of two gaseous media 13 p1971 N84-22790
Numerical boundary conditions for flow problems
[AD-P002960] 14 p2200 N84-24200
Comments on a problem of Chernoff and Petkau
[AD-A140911] 17 p2759 N84-27518
Edge waves by boundary collocation
[AD-A137959] 18 p2924 N84-28545
Spectral methods for exterior elliptic problems
[NASA-CR-172380] 19 p3082 N84-29560
Geology of the Gualan and Southern Sierra de las Minas Quadrangles, Guatemala 21 p3441 N84-31834
Research in nonlinear motion
[AD-A143000] 21 p3473 N84-32013
Ekman boundary conditions for numerical models of centrifuge flows
[DE84-013576] 22 p3595 N84-32765
On the boundary limits of harmonic functions with gradient in L sup p 22 p3634 N84-33030
Boolean operations in solid modelling: Boundary evaluation and merging algorithms
[TM-26] 23 p3818 N84-34207
Analysis, modeling and control of dynamical systems
[AD-A143937] 23 p3818 N84-34209
Visible-light imaging MHD studies of the edge plasma in the JIPP-T-IIU Tokamak
[IPPJ-683] 23 p3827 N84-34272

BOUNDARY ELEMENT METHOD
An investigation of the indirect boundary element method in One- and two-dimensional elastostatics
[AD-A133142] 06 p0900 N84-15843
Interactive computer graphic surface modeling of three-dimensional solid domains for boundary element analysis 12 p1873 N84-22208
Nonlinear Structural Analysis
[NASA-CP-2297] 21 p3419 N84-31688
Three-dimensional stress analysis using the boundary element method 21 p3421 N84-31700
A review of chevron-notched fracture specimens
[NASA-TM-85797] 23 p3760 N84-33834

BOUNDARY INTEGRAL METHOD
Three-dimensional analysis of chevron-notched specimens by boundary integral method
[NASA-CR-172225] 04 p0547 N84-13807
Some new developments in exact integral equation formulations for sub- or transonic potential flow
[NLR-MP-82024-U] 06 p0903 N84-15860
Some considerations on boundary integral equation method: A dynamic program for two-dimensional fracture mechanics problems
[OUEL-1468/83] 07 p1017 N84-16600
Development of a computer code for 3-dimensional higher order panel method for subsonic potential flow
[FFA-138] 09 p1253 N84-18180
Multigrid methods for boundary integral equations
[NLR-MP-82059-U] 09 p1379 N84-19011
Some boundary integral equation methods and their application to seismic exploration
24 p3918 N84-34803

BOUNDARY LAYER COMBUSTION
The calculation of the heat transfer associated with the injection of methane gas at the stagnation point of the dissociated boundary layer of the laminar air flow
[AD-A139063] 13 p1990 N84-22918
Fuel injection device and method
[DE84-014320] 22 p3606 N84-32846

BOUNDARY LAYER CONTROL
Optimum forebody shaping for axisymmetric submersibles with turbulent boundary layers and BLO (Boundary Layer Control) afterbodies
[AD-A130950] 01 p0079 N84-10515
Afterbody propulsor performance validation for A 2.65 fineness ratio body advanced tactical vehicle
[AD-A131259] 01 p0080 N84-10517
A flight test of laminar flow control leading-edge systems
[NASA-TM-85712] 05 p0625 N84-14110
Investigation to optimize the passive shock wave-boundary layer control for supercritical airfoil drag reduction
[NASA-CR-173276] 07 p0948 N84-16135
Analytical study of blowing boundary-layer control for subsonic V/STOL inlets
[NASA-TM-83576] 07 p0948 N84-16141
Design of transonic compressor cascades for minimal shock losses and comparison with test results
07 p0955 N84-16192
Sound radiation by vortex-body interaction
07 p0982 N84-16360
Airframe technology for aircraft energy efficiency --- economic factors
[NASA-TM-85749] 09 p1249 N84-18154
The effects of cylindrical surface modifications on turbulent boundary layers
[AD-A136296] 09 p1314 N84-18585
Experimental investigation of tangential blowing applied to a subsonic V/STOL inlet
[NASA-TP-2297] 11 p1602 N84-20493
Aerodynamic design of the contoured wind-tunnel liner for the NASA supercritical, laminar-flow-control, swept-wing experiment
[NASA-TP-2335] 23 p3688 N84-33377
A possibility of avoiding surface roughness due to insects
[NASA-TM-77419] 23 p3690 N84-33384

BOUNDARY LAYER EQUATIONS
Subsonic/transonic viscous interactions
03 p0317 N84-12075
Three-dimensional, time-dependent, compressible, turbulent, integral boundary-layer equations in general curvilinear coordinates and their numerical solution
[AD-A133289] 06 p0844 N84-15504
Interacting boundary-layer solutions for laminar separated flow past airfoils
[NASA-CR-172287] 07 p0948 N84-16140
Similar velocity profiles and integral quantities of a boundary layer on a rotating cylinder
[VKI-NT-148] 08 p1160 N84-17553
Cochlear mechanics: Analysis for a pure tone
[AD-A136438] 09 p1386 N84-19055
Design of single component airfoils using an inverse boundary element method
[REPT-83-A2-SER-A] 12 p1785 N84-21512
Transonic flow around protruding corner with free streamline 13 p1972 N84-22796
Wave drag of elongated astroid bodies at moderate supersonic flight velocities 13 p1972 N84-22797
Evaluation of boundary layer measurements in two-dimensional compressible subsonic flow with a pressure gradient across the boundary layer
[ESA-TT-810] 16 p2440 N84-25653
The behavior of streamlines near separation point and separation criterion
[AD-A140649] 17 p2668 N84-27010
A numerical view on strong viscous-inviscid interaction
[NLR-MP-83049-U] 17 p2669 N84-27020
Development of a self-adapted error-controlled difference method to solve the three-dimensional laminar incompressible boundary layer equations by numerically given contours determined by points
[REPT-24/83] 19 p3025 N84-29186
Stall delay by boundary layer blowing and/or suction
21 p3323 N84-31086
Simplified Navier-Stokes equations and combined solution of non-viscous and viscous boundary layer equations
[AD-A141634] 21 p3399 N84-31564
Three-dimensional, time-dependent, compressible, turbulent, integral boundary layer equations in general curvilinear coordinates and their numerical solutions
22 p3529 N84-32346
Simulation of transonic separated airfoil flow by finite difference viscous-inviscid interaction
[NASA-TM-85980] 22 p3531 N84-32358
Transonic viscous-inviscid interaction using Euler and inverse boundary-layer equations
23 p3688 N84-33376

BOUNDARY LAYER FLOW
NT BOUNDARY LAYER SEPARATION
NT REATTACHED FLOW
NT SECONDARY FLOW
NT SEPARATED FLOW
Aerodynamics of advanced axial-flow turbomachinery
[AD-A131360] 01 p0012 N84-10073
COMPBL-II: Compressible, variable pressure boundary layer program for arbitrary gaseous mixtures
[AD-A131352] 02 p0218 N84-11427

High Reynolds number cylinder flow studies
[AD-A131116] 02 p0218 N84-11429
Transonic empirical configuration design process
03 p0318 N84-12079
Unsteady compressible laminar boundary-layer flow within an expansion wave
[AD-A131889] 03 p0371 N84-12420
Experimental mixed-convection heat transfer from a large, vertical surface in a horizontal flow
[DE83-016419] 03 p0373 N84-12429
High altitude aerodynamic tests with simulated heat-shield outgassing
[AD-A132078] 04 p0492 N84-13227
Embedded cavity drag in steady and unsteady flows
[NASA-CR-172275] 04 p0531 N84-13493
The structure of the internal wave Mach front generated by a point source moving in a stratified fluid
[AD-A133775] 05 p0680 N84-14470
Experimental studies of unsteady phenomena in boundary layers
[AD-A133769] 05 p0680 N84-14471
The response of a laminar boundary layer to sound and wall vibration
[AD-A132843] 05 p0681 N84-14474
The instability of oscillatory Ekman boundary-layer flow 05 p0710 N84-14655
Experimental mixed convection heat transfer from a large vertical surface in a horizontal flow
06 p0832 N84-15412
Large scale motion in turbulent boundary layers
06 p0837 N84-15455
Some aspects of two-dimensional compressible turbulent boundary layers 06 p0837 N84-15456
Effects of unsteadiness on turbulent boundary layers
06 p0838 N84-15457
Three-dimensional turbulent boundary layers
06 p0838 N84-15459
An experimental method for analyzing shock-boundary layer interactions in cascades 07 p0955 N84-16195
Boundary layer development on rotating bodies of revolution 07 p0957 N84-16204
Finite element method for incompressible laminar boundary layer flows 08 p1096 N84-17126
Photodiagnostics of turbulent flows using laser-induced fluorescence
[NASA-CR-166546] 08 p1155 N84-17519
Numerical simulation of flow over rough surfaces, including effects of shock waves
[AD-A134700] 08 p1159 N84-17545
Effect of diabatic and frictional processes on frontal circulations
[PB84-104074] 08 p1193 N84-17778
La Recherche Aerospatiale bimonthly bulletin, number 1983-3, 214/May-June
[ESA-TT-822] 08 p1226 N84-18014
Investigation of effects contributing to dynamic stall using a momentum-integral method
[AD-A136697] 10 p1421 N84-19291
An analytical study of the effects of surface roughness on a compressible turbulent boundary layer
[AD-A136911] 10 p1492 N84-19756
Two-dimensional MHD boundary layers in argon-cesium plasmas
[EUT-83-E-139] 10 p1587 N84-20400
Unsteady turbulent boundary layers
[AD-A137853] 11 p1652 N84-20787
Design of single component airfoils using an inverse boundary element method
[REPT-83-A2-SER-A] 12 p1765 N84-21512
Simulations of the stratocumulus-topped boundary layer with a third-order closure model
12 p1857 N84-22098
On the bimodality of temperature and moisture near stratocumulus cloud tops 12 p1858 N84-22101
Aerodynamic sound generation by turbulent boundary layer flow along solid and compliant walls
[MPIS-116/1983] 13 p2040 N84-23239
Hydrodynamic theory of convective transport across a dynamically stabilized diffuse boundary layer — plasma flow
[JUEL-1889] 13 p2046 N84-23275
A short note on recent advances in the adaptive wall technique for 3D-model tests at the TU-Berlin
14 p2095 N84-23571
Turbulent diffuser flow studies related to the design of the ETW diffuser 14 p2095 N84-23572
Analysis and calculation of macrosegregation in a casting ingot, exhibits C and E
[NASA-CR-171030] 14 p2127 N84-23752
On separating turbulent boundary layers
[ARL-MECH-ENG-REPT-162] 14 p2144 N84-23851
Experimental mixed convection heat transfer from a large, vertical surface in a horizontal flow
[HMT-36] 14 p2146 N84-23864
Demonstration of boundary layer characteristics
[BU-299] 15 p2256 N84-24550
Experimental investigation of the turbulent large scale temporal flow in the wing-body junction
[AD-A139836] 15 p2257 N84-24558
The boundary layer on compressor cascade blades
[NASA-CR-173514] 15 p2332 N84-25001
Evaluation of boundary layer measurements in two-dimensional compressible subsonic flow with a pressure gradient across the boundary layer
[ESA-TT-810] 16 p2440 N84-25653
Numerical computation of vortical flows about wings
16 p2492 N84-25987
Effect of injection into boundary layer on flow of supersonic stream past oscillating cone
17 p2646 N84-26925
Parameterization of the ABL and OBL in a GFDL model, appendix M 18 p2885 N84-28308
Turbulence and surface heat transfer near the stagnation point of a circular cylinder in turbulent flow
[NASA-TM-83732] 19 p3021 N84-29157
Secondary flows and endwall boundary layers in axial turbomachines — conferences
[VKI-LS-1984-05] 19 p3022 N84-29162
Annulus endwall boundary layer theory — turbomachinery 19 p3023 N84-29167
An analytical study of a locally cooled high Reynolds number simulation technique
[AD-A141062] 19 p3023 N84-29170
An inverse laminar boundary layer problem with assigned wall shear: The mechul function revisited
[AD-A142326] 19 p3025 N84-29182
Boundary layer solution for the Rayleigh-Benard convection problem
[MPIS-19/1983] 19 p3026 N84-29189
Effect of turbulent boundary layer flow on measurement of acoustic pressure and intensity, revised
[AD-A142473] 20 p3184 N84-30229
Simplified Navier-Stokes equations and combined solution of non-viscous and viscous boundary layer equations
[AD-A141634] 21 p3399 N84-31564
On the stability of boundary-induced flows and modons
[PREPRINT-372] 21 p3403 N84-31591
Flow structures and their evolution in turbulent shear layer 21 p3486 N84-32091
The structure of the vorticity field in turbulent channel flow. Part 1: Analysis of instantaneous fields and statistical correlations
[NASA-TM-86019] 22 p3593 N84-32753
Measurement of skin friction in unsteady boundary layers using a flush-mounted hot-film gage
[PB84-197995] 22 p3596 N84-32773
Dynamical simulation of cloudy boundary layer flow during cold air outbreaks 22 p3624 N84-32964
Sidewall boundary layer corrections in subsonic, 2-dimensional airfoil-hydrofoil testing
[AD-A144002] 23 p3691 N84-33391
A flow visualization investigation on selected shapes with emphasis on flow separation
[AD-A143804] 23 p3747 N84-33753
Analysis of combustion oscillations in heterogeneous systems
[AD-A144436] 24 p3880 N84-34583
Turbulent boundary layers developing over compliant surfaces
[AD-A144268] 24 p3900 N84-34698
Numerical solutions for cavitating flow of a fluid with surface tension past a curved obstacle
[AD-A144695] 24 p3901 N84-34704
Transient convection over the Amazon/Bolivia region and the dynamics of drought over northeast Brazil
[INPE-3226-PRE/577] 24 p3922 N84-34823
Morphology and development of organized convection in the boundary layer 24 p3930 N84-34880

BOUNDARY LAYER NOISE
U AERODYNAMIC NOISE
U BOUNDARY LAYERS

BOUNDARY LAYER SEPARATION
Scanning laser Doppler anemometer and its application in turbulent separated flow
[AD-A130923] 01 p0084 N84-10548
Aerodynamics of Vortical Type Flows in Three Dimensions
[AGARD-CP-342] 03 p0321 N84-12099
Boundary layer segmentation on sharp highly swept leading edges and its effects on secondary vortices
03 p0326 N84-12132
A model of the trailing edge separation on an airfoil
[AD-A126703] 06 p0782 N84-15125
Potential flow analysis of glaze ice accretions on an airfoil
[NASA-CR-168282] 07 p0947 N84-16146
Compressor and turbine blade boundary layer separation 07 p0955 N84-16196
Analysis of three-dimensional viscous internal flows
[AD-A135762] 09 p1315 N84-18592
Analysis of transonic shock induced separated flow including normal pressure gradients
[AD-A137052] 10 p1422 N84-19298
Some unsteady aerodynamic characteristics of separated and attached flow
[AD-A137070] 10 p1422 N84-19300
Model equations describing unsteady fluid motion
[DFVLR-MITT-83-17] 10 p1495 N84-19775
Experimental study of the separating confluent boundary-layer. Volume 2: Experimental data
[NASA-CR-166018] 11 p1600 N84-20481
Determination of boundary layer transition and separation on double circular arc compressor blades in a large subsonic cascade
[AD-A137550] 11 p1652 N84-20786
ALESEP: A computer program for the analysis of airfoil leading edge separation bubbles
[NASA-CR-172310] 13 p1926 N84-22537
On separating turbulent boundary layers
[ARL-MECH-ENG-REPT-162] 14 p2144 N84-23851
Turbulence effect on laminar separation on a circular cylinder 15 p2314 N84-24889
Aerothermal wind tunnel test of the space shuttle OMS (Orbital Maneuvering System) pod AFRSI (Advanced Flexible Reusable Surface Insulation) material
[AD-A140292] 16 p2457 N84-25754
Implicit time dependent methods for the solution of the Euler equations 16 p2492 N84-25989
Three-dimensional laminar separation
[AD-A140378] 16 p2493 N84-25993
The behavior of streamlines near separation point and separation criterion
[AD-A140649] 17 p2668 N84-27010
A numerical view on strong viscous-inviscid interaction
[NLR-MP-83049-U] 17 p2669 N84-27020
Behaviour of a vortex sheet separating from a smooth surface
[RAE-TR-77058] 18 p2836 N84-27998
Calculation of three dimensional viscous flows in annular cascades using parabolized Navier-Stokes equations
19 p3023 N84-29168
An integral prediction method for three-dimensional flow separation
[AD-A142551] 20 p3184 N84-30231
Experimental investigations on airfoils with different geometries in the domain of high angles of attack — flow separation
[REPT-A-5/84-PT-1] 23 p3691 N84-33393

BOUNDARY LAYER STABILITY
Experimental studies of boundary layer transition on a spinning and non-spinning axisymmetric body
01 p0002 N84-10014
A numerical study of the global axisymmetric circulation with varying heating and rotation rates
02 p0246 N84-11607
A vertical wind angle standard deviation calculation method for the unstable surface boundary layer
[AD-A132362] 04 p0567 N84-13739
Results from a two-layer and a reduced gravity model of the Alboran Sea; and vertical shear from tops
[AD-A133753] 06 p0884 N84-15752
The development of unsteady boundary layers on the rotor of an axial-flow turbine 07 p0956 N84-16197
Stability of the laminar boundary layer in a streamwise corner
[NASA-CR-173282] 08 p1157 N84-17532
On the stability of an infinite swept attachment line boundary layer
[NASA-CR-172300] 10 p1420 N84-19285
The hydrodynamic stability of a supersonic laminar boundary layer over a rough wall
[AD-A137056] 10 p1422 N84-19299
Newton like: Minimal residual methods applied to transonic flow calculations
[NASA-CR-172305] 10 p1568 N84-20275
Problems with the process partitioning theory of stratocumulus entrainment 12 p1857 N84-22099
Excitation of Tollmin-Schlichting waves in boundary layer at vibrating surface of infinite-span sweptback wing
13 p1971 N84-22792
COSAL: A black-box compressible stability analysis code for transition prediction in three-dimensional boundary layers
[NASA-CR-165925] 18 p2836 N84-28002
Numerical analysis of the burst in the turbulent boundary layer, based on the three-dimensional ortex model
20 p3168 N84-30116
Boundary-layer linear stability theory
23 p3748 N84-33759
Morse theory for flows in presence of a symmetry group
[AD-A144661] 24 p3952 N84-35026

BOUNDARY LAYER TRANSITION
Experimental studies of boundary layer transition on a spinning and non-spinning axisymmetric body
01 p0002 N84-10014

Shuttle orbiter boundary layer transition at flight and wind tunnel conditions 01 p0023 N84-10149
Orbiter windward surface entry Heating: Post-orbital flight test program update 01 p0024 N84-10150
Further developments of the A. R. A. P. model for the atmospheric marine environment
[AD-A129862] 01 p0107 N84-10896
Laminarization of a boundary layer in a supersonic nozzle by cooling of the surface
[NASA-TM-77341] 05 p0626 N84-14119
On the relationship between transitional and fully turbulent shear flow
[AD-A133808] 05 p0680 N84-14469
Cavitation inception observations on axisymmetric headforms with turbulence stimulators
[AD-A133517] 06 p0844 N84-15506
Correlations of supersonic boundary-layer transition on cones including effects of large axial variations in wind-tunnel noise
[NASA-TP-2229] 08 p1157 N84-17534
Predicting the onset of turbulence in the presence of a pressure gradient
[AD-A136980] 10 p1493 N84-19760
A synthesized model of the near-wall behavior in turbulent boundary layers
[AD-A137029] 10 p1493 N84-19764
The plasma sheet boundary layer
[AD-A137399] 10 p1537 N84-20069
Interaction of aerodynamic noise with laminar boundary layers in supersonic wind tunnels
[NASA-CR-3621] 11 p1651 N84-20781
Determination of boundary layer transition and separation on double circular arc compressor blades in a large subsonic cascade
[AD-A137550] 11 p1652 N84-20786
Investigation of the laminar turbulent boundary layer transition on the rotor blades of the 25 m wind turbine HAT
[VTH-LR-390] 12 p1817 N84-21844
Boundary layer trip performance test on a 7-deg cone model at mach number 8
[AD-A139408] 14 p2146 N84-23860
Experimental mixed convection heat transfer from a large, vertical surface in a horizontal flow
[HMT-36] 14 p2146 N84-23864
The generation of higher levels of turbulence in the test section of the high speed cascade wind tunnel at Brunswick for simulation of turbomachinery conditions
[ESA-TT-815] 16 p2440 N84-25654
Hypersonic static and dynamic stability. Part 3: Experimental techniques, experimental results and viscous effects 16 p2442 N84-25665
Studies of boundary layer transition and surface roughness effects in hypersonic flow
[AD-A140803] 17 p2601 N84-26670
Measurements of the low wavenumber wall pressure spectral density during transition on a flat plate
[AD-A140753] 17 p2668 N84-27013
COSAL: A black-box compressible stability analysis code for transition prediction in three-dimensional boundary layers
[NASA-CR-165925] 18 p2836 N84-28002
Numerical simulation of boundary-layer transition
[NASA-TM-85984] 19 p2958 N84-28746
Investigation of the mechanism of transonic shock wave/boundary layer interactions using a Navier-Stokes analysis
[AD-A141551] 19 p2959 N84-28752
Simplified Navier-Stokes equations and combined solution of non-viscous and viscous boundary layer equations
[AD-A141634] 21 p3399 N84-31564
Special Course on Stability and Transition of Laminar Flow
[AGARD-R-709] 23 p3748 N84-33757
Environment and receptivity 23 p3748 N84-33760
Transition description and prediction in three-dimensional flows 23 p3748 N84-33761
Secondary instability of shear flows 23 p3748 N84-33763

BOUNDARY LAYERS

NT ATMOSPHERIC BOUNDARY LAYER
NT COMPRESSIBLE BOUNDARY LAYER
NT HYPERSONIC BOUNDARY LAYER
NT INCOMPRESSIBLE BOUNDARY LAYER
NT LAMINAR BOUNDARY LAYER
NT PLANETARY BOUNDARY LAYER
NT SUPERSONIC BOUNDARY LAYERS
NT THREE DIMENSIONAL BOUNDARY LAYER
NT TURBULENT BOUNDARY LAYER
NT TWO DIMENSIONAL BOUNDARY LAYER
Nickel diffusion along single inter-phase boundaries
[BLL-M-35109-(5828.4)] 01 p0040 N84-10254
On the stability of the unsteady boundary layer on a cylinder oscillating transversely in a viscous fluid
[NASA-CR-172216] 01 p0076 N84-10499
Atmospheric infrared backscatter:: Summary of present knowledge and recommendations for future work
[PB83-222281] 01 p0106 N84-10690
Analysis of an effusive sampling device for analysis of boundary layer gases
[NASA-CR-174532] 01 p0120 N84-10778
An example of boundary layer in delay equations
[AD-A129144] 01 p0129 N84-10842
Neoclassical transport in a multiple-helicity torsatron in the low-collisionality regime: Strong radial electric-field limit
[DE83-016463] 02 p0296 N84-11941
Dynamic-stall regulation of the Darrieus turbine
[DE83-017994] 03 p0321 N84-12097
A gas-flow tracing technique applicable to rotating systems boundary layer on a rotating disk
[DE83-012761] 03 p0372 N84-12425
Optical extinction coefficients beneath marine stratus clouds. Comparison of coefficients calculated from observed aerosol spectra with coefficients specified by the Navy aerosol model
[AD-A132011] 03 p0410 N84-12685
Boundary layers in cataclysmic variables: The HEAO-1 X-ray constraints
[NASA-TM-85112] 03 p0463 N84-13046
Computation of turbulent reacting flows: Comparison of various mixing/chemistry interaction models
[DE84-000998] 04 p0534 N84-13514
Analytical investigation of meso-scale boundary layer forced by surface temperature variation in a stratified sheared atmosphere 04 p0562 N84-13702
SRL tethersonde and echosonde data, Anderson Creek Valley, California
[DE84-001680] 04 p0564 N84-13715
An experimental investigation of the boundary layer structures in a partially-filled horizontal and rapidly-rotating cylinder 06 p0832 N84-15414
The Norwegian Seismic Array (NORSAR). Phase 3
[AD-A134036] 06 p0878 N84-15713
Effects of a skewed inlet end wall boundary layer on the 3-D flow field in an annular turbine cascade 07 p0956 N84-16202
End-wall boundary layer calculations in multistage axial compressors 07 p0957 N84-16205
Annulus wall boundary layer development in a compressor stage, including the effects of tip clearance 07 p0957 N84-16207
End-wall boundary layer measurements in a two-stage fan 07 p0957 N84-16208
Experimental verification of an endwall boundary layer prediction method 07 p0958 N84-16211
JANNAF Performance Standardization Subcommittee 16th Meeting minutes
[CPIA-PUBL-382] 07 p0981 N84-16355
Theory of pulse propagation in fluid saturated porous layers
[DE84-002714] 07 p1003 N84-16503
Benthic boundary layer - IOS modelling programme
[IOS-162] 07 p1074 N84-16983
An approach to the design of airfoils with high lift to drag ratios
[UTIAS-TN-245] 09 p1250 N84-18160
Unsteady boundary layers on thin bodies of revolution
[AD-A136257] 09 p1313 N84-18583
An estimation method of vertical diffusion parameters in the mesoscale range
[AD-A136498] 09 p1345 N84-18787
Wave characteristics of temperature inversion process of nighttime radiation
[AD-A136499] 09 p1348 N84-18809
Structural analysis of air outflow from low layers of intense thundercloud
[AD-A136500] 09 p1348 N84-18810
Research on boundary feedback and control theories, 1978 - 1983
[AD-A136531] 09 p1376 N84-18987
Analysis of transonic shock induced separated flow including normal pressure gradients
[AD-A137052] 10 p1422 N84-19298
Heat transfer in oscillatory flow
[DE84-005193] 10 p1494 N84-19768
The relation between the gravity current in the atmospheric boundary layer and local heavy rainfall
[AD-A137193] 10 p1539 N84-20086
Experimental study of the separating confluent boundary-layer. Volume 2: Experimental data
[NASA-CR-166018] 11 p1600 N84-20481
Remote sensing of winds and turbulence above complex terrain during ASCOT-1980
[DE84-004231] 11 p1688 N84-21009
NASA/MSFC ground-based Doppler lidar nocturnal boundary layer experiment (Noblex)
[NASA-CR-3778] 11 p1731 N84-21293
Inverse transonic airfoil design methods including boundary layer and viscous interaction effects
[NASA-CR-173449] 12 p1765 N84-21514
Study of large-scale mixing in developing wakes behind streamlined bodies
[NASA-CR-173478] 12 p1766 N84-21517
Vaporization of synthetic fuels
[DE84-006556] 12 p1803 N84-21755
HC quench layer formation in combustion processes
[DE84-005068] 12 p1823 N84-21883
Numerical analysis of an unsteady shock in an inlet diffuser 13 p1951 N84-22686
Aerodynamic forces on an airship hull in atmospheric turbulence
[UTIAS-277] 14 p2100 N84-23604
Boundary layer trip performance test on a 7-deg cone model at mach number 8
[AD-A139408] 14 p2146 N84-23860
Unsteady laminar boundary-layer calculations on oscillating configurations including backflow. Part 2: Airfoil in high-amplitude pitching motion. Dynamic stall
[NASA-TM-84319-PT-2] 15 p2254 N84-24537
The effects of meteorology on marine aerosol and optical and in propagation 15 p2323 N84-24950
Benthic boundary layer: IOS observational programme
[IOS-163] 15 p2372 N84-25232
High magnetic field MHD generator program
[DE84-007690] 15 p2411 N84-25474
Application of a quasi-3D inviscid flow and boundary layer analysis to the hub-shroud contouring of a radial turbine
[NASA-TM-83669] 16 p2439 N84-25647
Boundary layers in space plasmas: A kinetic model of tangential discontinuities
[AERONOMICA-ACTA-A-260-1984] 16 p2558 N84-26406
Mathematical modeling of transient separation flow around circular cylinder 17 p2644 N84-26916
Large eddy interactions in curved wall boundary layers: Model and implications 17 p2666 N84-26998
Remote sensing of air-sea interactions 17 p2712 N84-27267
Evaluation of meteorological airborne Doppler radar 17 p2715 N84-27287
Brookhaven National Laboratory Coastal Meteorology Program, 1972-1983
[DE84-008584] 18 p2891 N84-28349
Studies of Chebyshev spectral methods and multigrid methods
[AD-A142014] 20 p3245 N84-30596
Objective analysis and prediction techniques, 1983
[AD-A142441] 20 p3245 N84-30599
Flow in a tapered centrifuge
[DE84-012553] 21 p3401 N84-31573
Pressure effects on wall heat transfer during flame quenching
[DE84-012265] 21 p3401 N84-31575
Two-dimensional vapor flow analysis in heat pipes
[DE84-012581] 21 p3402 N84-31582
Coefficient of surface friction with turbulent flow in boundary layer 21 p3481 N84-32064
Graduate engineering research participation in aeronautics
[NASA-CR-173849] 21 p3507 N84-32220
Ekman boundary conditions for numerical models of centrifuge flows
[DE84-013576] 22 p3595 N84-32765
Experimental and model transport and diffusion studies in complex terrain with emphasis on tracer studies
[DE84-013076] 22 p3626 N84-32975
Research on phase transformations and non-equilibrium process
[DE84-014376] 23 p3720 N84-33580
Predictability of inversions at Vandenberg (VBG) AFB, California
[AD-A144042] 23 p3802 N84-34107
An experimental investigation of the effect of boundary layer refraction on the noise from a high-speed propeller
[NASA-TM-83764] 23 p3821 N84-34230
A boundary layer parameterization for a general model
[AD-A144224] 24 p3915 N84-34791
Vertical mode decomposition and model resolution
[INPE-3230-PRE/580] 24 p3918 N84-34805
The effects of latent heat release on the waves with Ekman pumping 24 p3926 N84-34847
Boundary layer thermal stresses in cross-ply composite laminates 24 p3958 N84-35057

BOUNDARY LUBRICATION

Temperature analysis in lubricated simple sliding rough contacts 01 p0089 N84-10579
Hydrodynamic lubrication of rigid nonconformal contacts in combined rolling and normal motion
[NASA-TM-83578] 08 p1166 N84-17592
Lubrication of engineering surfaces, phase 2
[DE84-006344] 12 p1822 N84-21878
Support of oil lubrication by bonded coatings 15 p2342 N84-25057

Lubrication of machine elements
[NASA-RP-1128] 21 p3413 N84-31640
Solid lubrication design methodology
[NASA-CR-174690] 22 p3677 N84-33309

BOUNDARY VALUE PROBLEMS
NT CAUCHY PROBLEM
NT DIRICHLET PROBLEM
NT NEUMANN PROBLEM

Eigenmode analysis of unsteady one-dimensional Euler equations
[NASA-CR-172217] 01 p0003 N84-10022
Spectral methods for time dependent partial differential equations
[NASA-CR-172241] 01 p0128 N84-10837
Smooth solutions to a quasi-linear system of diffusion equations for a certain population model
[AD-A129180] 01 p0128 N84-10839
Block iterative methods for elliptic finite element equations
[AD-A129150] 01 p0129 N84-10841
On the superlinear Ambrosetti-Prodi problem
[AD-A130574] 01 p0130 N84-10849
Implications of analytical investigations about the semiconductor equations on device modeling programs
[AD-A130549] 01 p0130 N84-10851
Solution manifolds and submanifolds of parametrized equations and their discretization errors
[AD-A130186] 01 p0131 N84-10857
Asymptotic behaviors of the solution of an elliptic equation with penalty terms
[AD-A130473] 01 p0131 N84-10858
Stable equilibria in a scalar parabolic equation with variable diffusion
[AD-A131221] 01 p0134 N84-10877
Computational methods for static and dynamic systems and engineering applications
[PB83-227314] 01 p0135 N84-10884
Modified quasilinearization algorithm for optimal control problems with nondifferential constraints and general boundary conditions. Part 2: Examples
[PB83-228936] 01 p0135 N84-10885
Nonperiodic fluctuations induced by stationary surface waviness on a semi-infinite plate
[AD-A130820] 02 p0174 N84-11146
Asymptotic expansions of the pressure and the free boundary for flows through porous media
[PREPRINT-584] 02 p0221 N84-11448
Numerical methods and computers used in elastohydrodynamic lubrication
[NASA-TM-83524] 02 p0228 N84-11498
Partitioned Runge-Kutta procedures for numerical solution for nonstiff and stiff initial value problems
[TUM-M8304] 02 p0279 N84-11828
Numerical methods for free boundary problems and 2 phase flows
[AD-A131374] 02 p0280 N84-11835
Computational methods for subsonic and transonic aerodynamic design 03 p0317 N84-12074
Improved wave drag predictions using modified linear theory
[NASA-CR-174494] 03 p0320 N84-12096
Acta Mechanica Sinica (selected articles)
[AD-A131871] 03 p0372 N84-12422
Zero-dimensional model of compressible gas flow in networks of pressure vessels: Program TRIC
[DE83-017121] 03 p0373 N84-12431
Buckled plate vibrations, large amplitude vibrations and nonlinear flutter of elastic plates using high-order triangular finite elements 03 p0387 N84-12523
Adaptive finite element methods for parabolic partial differential equations
[NASA-CR-174490] 03 p0417 N84-12727
GRIDPACK: Toward unification of general grid programming
[AD-A131692] 03 p0420 N84-12746
Multidimensional explicit difference schemes for hyperbolic conservation laws
[NASA-CR-172254] 03 p0425 N84-12778
Boundary-integral simulations of rayleigh-taylor instability in ideal magnetohydrodynamics
[AD-A131667] 03 p0444 N84-12920
Calculations of composition boundaries of saturated phases
[DE84-001665] 04 p0499 N84-13274
The emergence and propagation of a phase boundary in an elastic bar
[AD-A132275] 04 p0549 N84-13616
On the range of real coefficients of functions with bounded boundary rotation 04 p0575 N84-13789
On quasi-parabolic problems with normal boundary conditions 04 p0576 N84-13797
On interpolation methods for boundary value ordinary differential equations 04 p0586 N84-13869
Solution of the 2-point boundary value problems of optimal spacecraft rotational maneuvers 04 p0586 N84-13870
The plane stress/strain analysis of non-homogeneous continua by the boundary integral equation method
[TR-821S] 04 p0587 N84-13880
Remarks on the Kuramoto-Sivashinsky equation
[DE84-001018] 04 p0590 N84-13901
An introduction to the parabolic equation for acoustic propagation
[AD-A132315] 04 p0595 N84-13925
A free-boundary problem arising from a galvanizing process
[AD-A132853] 05 p0655 N84-14304
The interfaces of one-dimensional flows in porous media
[AD-A132862] 05 p0681 N84-14478
The emergence and propagation of a phase boundary in an elastic bar 05 p0690 N84-14535
A study of plasmaspheric density distributions for diffusive equilibrium conditions
[AD-A132643] 05 p0703 N84-14615
Numerical methods for singularly perturbed differential equations with applications
[AD-A133741] 05 p0734 N84-14821
Stability analysis for difference schemes, problems in applied linear algebra, and application of number theory to computing
[AD-A133654] 05 p0735 N84-14825
Initial-boundary value problems for linear hyperbolic systems
[AD-A132644] 05 p0735 N84-14829
Numerical analysis of boundary value problem of elliptic type by means penalty and the finite difference and its application to free boundary problem
[AD-A132805] 05 p0736 N84-14834
Numerical analysis of a Stefan problem
[AD-A132823] 05 p0737 N84-14838
A collocation method for computing eigenvalues and eigenfunctions of the Laplacian
[AD-A132827] 05 p0737 N84-14839
A coordinate transformation for the porous media equation that renders the free-boundary stationary
[AD-A132839] 05 p0737 N84-14842
A 3-component system of competition and diffusion
[AD-A132860] 05 p0738 N84-14844
Establishing observation equations by means of series expansion into eigenfunctions
[TUM-MITT-163] 05 p0739 N84-14851
Solution of elastic and elasto-plastic problems by the method of lines 06 p0856 N84-15573
Analysis of plates by the initial-value method 06 p0863 N84-15622
An investigation of the indirect boundary element method in One- and two-dimensional elastostatics
[AD-A133142] 06 p0900 N84-15843
Numerical modeling and fast-solver calculation of approximately normal shocks
[NLR-MP-82026-U] 06 p0902 N84-15856
Turbulent flow downstream of a backward-facing step
[CFD/83/2] 07 p1005 N84-16515
Wave propagation in fluid lines
[MEAH-26] 07 p1005 N84-16521
Variational methods in elasticity theory 07 p1030 N84-16681
On perturbations of stability inequalities with an application to finite difference approximations of ODE's
[AD-A134535] 07 p1062 N84-16889
Diffusion on viscous fluids, existence and asymptotic properties of solutions
[AD-A134538] 07 p1063 N84-16891
A variational approach to superlinear elliptic problems
[AD-A134541] 07 p1063 N84-16892
On M-functions and nonlinear relaxation methods
[MC-NW-160/83] 07 p1066 N84-16922
The control of float zone interfaces by the use of selected boundary conditions
[NASA-CR-170959] 07 p1079 N84-17017
Shape optimal design and free boundary value problems 08 p1154 N84-17516
The effect of the artificial far field boundary on a finite different approximation of the Navier-Stokes equations for a compressible fluid
[AD-A135152] 08 p1157 N84-17536
Temporal finite elements based on a minimum principle for initial value problems 08 p1216 N84-17935
Smoothness of bounded solutions of nonlinear evolution equations
[AD-A135294] 08 p1219 N84-17958
Numerical solution of singular integral equations arising in mixed boundary value problems of elasticity
[AD-A134673] 08 p1220 N84-17965
Optimal low-thrust interplanetary orbit transfer including Earth escape spiral trajectory
[NAL-TR-778T] 09 p1266 N84-18264
A singular free boundary problem
[AD-A136325] 09 p1373 N84-18967
Using interval methods for the numerical solution of ODE'S (Ordinary Differential Equations)
[AD-A136373] 09 p1374 N84-18972
Applications of natural constraints in critical point theory to boundary value problems on domains with rotation symmetry
[AD-A136404] 09 p1374 N84-18976
Numerical methods for stiff two-point boundary value problems
[AD-A136427] 09 p1375 N84-18981
Feedback and adaptive finite element solution of one-dimensional boundary value problems
[AD-A136018] 09 p1378 N84-19000
Finite element grid optimization
[AD-A136025] 09 p1378 N84-19001
A nonlinear eigenvalue problem modelling the avalanche effect in semiconductor diodes
[AD-A136368] 09 p1394 N84-19106
Evolution of nonlinear wave groups on water of slowly-varying depth
[AD-A137420] 10 p1491 N84-19751
Vectorized multigrid Poisson solver for the CDC CYBER 205 10 p1561 N84-20230
General path-integral successive-collision solution of the bounded dynamic multi-swarm problem
[AD-A136961] 10 p1570 N84-20287
Time-dependent Child-Langmuir diode simulation
[AD-A136964] 10 p1570 N84-20288
Transverse and quantum effects in light control by light; (A) parallel beams: Pump dynamics for three level superfluorescence; and (B) counterflow beams: An algorithm for transverse, full transient effects in optical bi-stability in a Fabryperot cavity
[AD-A136906] 10 p1578 N84-20342
Feedback laws for fuel minimization for transport aircraft 11 p1617 N84-20579
Shearing deformation of simple materials 11 p1666 N84-20872
Elastic quarter plane and quarter space boundary value problems 11 p1667 N84-20876
Stability of finite difference models containing two boundaries or interfaces
[NASA-CR-172319] 11 p1712 N84-21165
New exact solutions in non-linear elasticity
[AD-A137928] 11 p1715 N84-21181
Interpolation for Runge-Kutta methods
[DE84-006455] 11 p1716 N84-21193
Step sizes used by one-step codes for ODEs
[DE84-006317] 12 p1895 N84-22344
Step size control in ODE solvers
[DE84-006391] 12 p1895 N84-22345
Galerkin's method and stabilization method for variable type equations
[PREPRINT-789] 12 p1895 N84-22346
Numerical methods for transient semiconductor device modelling
[AD-A137970] 12 p1913 N84-22462
Energetics of vortex ring formation
[AD-A138795] 13 p1927 N84-22539
More precise numerical simulation of transsonic flow through passages in turbomachines 13 p1970 N84-22786
Linear multistep methods with minimized truncation error for periodic initial value problems
[MC-NW-157/83] 13 p2034 N84-23195
A posteriori error analysis in L sub p norms for the finite element method
[CTH-MATH-1983-15] 13 p2035 N84-23198
A new eigenfunction expansion and its application to waveguide acoustics
[AD-A138946] 13 p2040 N84-23236
Numerical boundary conditions for flow problems
[AD-P002960] 14 p2200 N84-24200
A numerical technique in the hydrodynamic theory of foil bearings
[AD-P002966] 14 p2200 N84-24204
Near Chapman-Jouget detonations
[AD-P002974] 14 p2201 N84-24210
Remarks on the Ambrosetti-Prodi problem
[AD-A139237] 14 p2212 N84-24282
Exact boundary conditions at an artificial boundary for partial differential equations in cylinders
[AD-A139310] 14 p2213 N84-24292
Bifurcation and multiplicity results for nonlinear elliptic problems involving critical sobolev exponents
[AD-A139332] 14 p2219 N84-24315
Preconditioning by fast direct methods for non-self-adjoint nonseparable elliptic equations
[AD-A139360] 14 p2219 N84-24316
Mathematical analysis 14 p2245 N84-24479
Utilization of satellite observations to determine the mean orbital elements
[LFD-219] 15 p2269 N84-24627
On 4th-order homogeneous functionals in the class of bounded univalent functions 15 p2396 N84-25374

Canonical solutions for unsteady flow fields
[NASA-TM-85812] 16 p2486 N84-25947
A finite difference method for inverse mode calculations of a three-dimensional boundary layer
[AD-B071559] 16 p2488 N84-25956
The method of complex characteristics for design of transonic compressors 17 p2599 N84-26659
Mixed boundary-value problems pertaining to profile of supersonic nozzles and channels
17 p2645 N84-26919
Vortical-potential flow of ideal fluid along plane with depression 17 p2646 N84-26927
An integrated boundary element analysis system with interactive computer graphics for 3-dimensional linear-elastic fracture mechanics
17 p2676 N84-27048
Numerical analysis of time-dependent inelastic fracture 17 p2677 N84-27054
Preconditioned iterative methods for nonselfadjoint or indefinite elliptic boundary value problems
[AD-A140777] 17 p2758 N84-27511
An infinite L: Estimate for the delta bar equation in the ball in C sup N
[MATH-MATH-1983-29] 17 p2759 N84-27521
New hydrodynamic potentials and a free boundary value problem of the stationary Stokes equation
[PREPRINT-636] 17 p2760 N84-27524
Distributed parameter control techniques with application to adaptive control of certain flutter phenomena, November 1, 1982 to October 31, 1983
[AD-A140943] 18 p2923 N84-28540
Finite element methods for the solution of problems with rough input data
[AD-A140955] 18 p2925 N84-28552
PAN AIR summary document (version 1.0)
[NASA-CR-3250] 19 p2957 N84-28741
Nonlinear wave propagation
[AD-A141098] 19 p3004 N84-29038
On the scattering of electromagnetic waves by perfectly conducting bodies moving in vacuum. Part 1: Formulation and reformulation of the scattering problem
[AD-A141746] 19 p3006 N84-29051
Remarks on the flow between two parallel rotating plates
[AD-A141582] 19 p3023 N84-29174
The cauchy problem in one-dimensional nonlinear viscoelasticity
[AD-A141507] 19 p3084 N84-29576
A free boundary problem for degenerate quasilinear parabolic equations
[AD-A141608] 19 p3085 N84-29585
A remark on semilinear perturbations of abstract parabolic equations
[AD-A141695] 19 p3087 N84-29593
The factorization method for two points boundary value problems for ODE's and its relation to the finite difference method
[AD-A141829] 19 p3088 N84-29604
Interpolation of weighted L sub P and Sobolev spaces on intervals
[CTH-MATH-1984-04] 19 p3090 N84-29622
Boundary problems and large deviation results for queue length processes
[CTH-MATH-1984-05] 19 p3090 N84-29623
Solution formulas for the delta delta bar equation and weighted Nevanlinna classes in the polydisk
[CTH-MATH-1984-07] 19 p3091 N84-29625
Grid-size reduction in flow calculations on infinite domains by higher-order far-field asymptotics in numerical boundary conditions
[NLR-MP-83029-U] 20 p3187 N84-30253
Studies of Chebyshev spectral methods and multigrid methods
[AD-A142014] 20 p3245 N84-30596
On the extremum of bilinear functional for hyperbolic type partial differential equations
[AD-A142505] 20 p3281 N84-30828
Calculation of boundary layers of oscillating airfoils
[NASA-TM-85943] 21 p3398 N84-31554
Global solutions for the one-dimensional equations of a viscous reactive gas
[AD-A142931] 21 p3400 N84-31569
Large deflections of circular isotropic membranes subjected to arbitrary axisymmetric loading
[NASA-TM-86271] 21 p3419 N84-31686
Free bulging of round diaphragm exposed to uniform pressure in state of creep
[BLL-M-35680-(5826.4)] 22 p3608 N84-32861
The time evolution of spectral discretizations of hyperbolic systems
[NASA-CR-172432] 22 p3645 N84-33113
Stability analysis of finite difference schemes for hyperbolic systems, and problems in applied and computational linear algebra
[AD-A143537] 22 p3646 N84-33119
High-order sparse factorization methods for elliptic boundary value problems
[DE84-012582] 22 p3646 N84-33122
Existence and equivalence of solutions of mixed problems for Euler's hydrodynamic equations
[ISSN-0208-5658] 23 p3745 N84-33738
Effect of boundary conditions on the damping characteristics of a randomly excited cast nickel-aluminum bronze specimen at low stress levels
[AD-A143685] 23 p3761 N84-33837
Diffraction of waves by bed boundaries in an open borehole 23 p3776 N84-33939
Efficient editing of solid models by exploiting structural and spatial locality
[TM-46] 23 p3815 N84-34190
A multigrid finite element method
23 p3818 N84-34213
Modeling two-dimensional freezing using transfinite mappings and a moving-mesh finite element technique
[AD-A144131] 24 p3900 N84-34696
A study of some multi-grid ideas
[AD-A144485] 24 p3951 N84-35021
Iterative methods for elliptic problems and the discovery of Q
[AD-A144483] 24 p3952 N84-35022
The SLxE program for the solution of nonlinear systems for elliptic differential equations — fluid mechanics
[REPT-23/83] 24 p3953 N84-35033

BOUSSINESQ APPROXIMATION
The AGCE related studies of baroclinic flows in spherical geometry
[NASA-CR-170934] 03 p0371 N84-12415

BOW SHOCK WAVES
U BOW WAVES
U SHOCK WAVES

BOW WAVES
Scale lengths in quasi-parallel shocks
[NASA-TM-85109] 03 p0407 N84-12663
On the relationship between collisionless shock structure and energetic particle acceleration
[NASA-CR-175328] 06 p0910 N84-15909
Whistler mode turbulence generated by electron beams in Earth's bow shock
[NASA-CR-173143] 07 p1034 N84-16707
Conical flows with leading edge vortices
15 p2333 N84-25013
Characteristics of the magnetospheric source of interplanetary energetic particles
16 p2573 N84-26512
Whistler mode turbulence at Earth's bow shock: Generation via electron beams and ray path integrated amplification 17 p2726 N84-27349
A comparative review of bow shocks and magnetopauses
[NASA-TM-86114] 17 p2726 N84-27353
Some contributions to knowledge of the magnetospheric plasma by ISEE investigators
[NASA-TM-86124] 20 p3301 N84-30962
Large amplitude MHD waves upstream of the Jovian bow shock: Reinterpretation
[NASA-TM-86131] 21 p3525 N84-32333

BOWS
Suprathermal ions upstream of the Earth's bow shock
[DE84-012625] 21 p3444 N84-31855

BOXES
Flow visualizations, velocity measurements, and surface convection measurements in simulated 20.8-cm Nova box amplifier cavities
[DE84-004354] 10 p1501 N84-19612

BRAGG ANGLE
Investigation of Bragg reflection of electromagnetic surface waves by diffraction grating
21 p3479 N84-32053
Broadband guided-wave optical frequency translator using an electro-optical Bragg array
[AD-D011164] 23 p3825 N84-34260

BRAGG CURVE
On the detection of underwater bottom topography by imaging radars 17 p2718 N84-27301

BRAIN
NT CEREBELLUM
NT CEREBRAL CORTEX
NT CEREBRUM
Stability of rat brain glutamine synthetase to oxygen toxicity (oxygen at high pressure)
[AD-A131049] 01 p0112 N84-10725
Neurocognitive pattern analysis
[AD-A131302] 01 p0114 N84-10740
Interdisciplinary study on artificial intelligence
[AD-A131359] 02 p0278 N84-11819
Event-related brain potentials: An alternative methodology for neurotoxicological research
[PB83-246116] 04 p0573 N84-13775
Magnetoencephalography
[AD-A132496] 05 p0712 N84-14868
Neuronal adaptive mechanisms underlying intelligent information processing
[AD-A133694] 06 p0889 N84-15776
Bioecholocation method for inestigation of parameters of intracranial circulation of blood and fluid in man
07 p1047 N84-16788
Neurophysiological bases of event-related potentials
[AD-A135263] 09 p1362 N84-18897
Neuromagnetic investigation of workload and attention
[AD-A136172] 10 p1548 N84-20147
The effects of organophosphorus antichclinesterase compounds on brain glucose and energy metabolism
[AD-A137819] 11 p1695 N84-21058
The event related brain potential as an index of information processing, cognitive activity, and skill acquisition: A program of basic research
[AD-A137779] 11 p1702 N84-21100
New techniques for measuring single event related brain potentials
[AD-A138694] 13 p2021 N84-23107
Hyperpyrexia and head trauma
[AD-A139420] 14 p2185 N84-24090
Brain responses and information processing IV. Investigations of hemispheric asymmetry in event related potentials and performance during discrimination of line orientation, color, shape and under visual masking
[AD-A139797] 15 p2383 N84-25289
Activity of respiratory system during laser irradiation of brain structures 17 p2742 N84-27409
Neuromagnetic investigation of workload and attention
[AD-A140946] 18 p2900 N84-28394
Organophosphate toxicity: Genetics, receptors, and antidotes
[AD-A141059] 20 p3259 N84-30685
Biomagnetism: Possible new predictor of personnel performance
[AD-A142451] 20 p3262 N84-30697
Psychophysiological aspects of monotonous human activity 21 p3453 N84-31911

BRAIN CIRCULATION
Dynamics of rheographic parameters of cerebral circulation and circulation in the extremities during active orthostatic test 02 p0260 N84-11700
Effect of redistribution of blood on severity of spatial position illusions in weightlessness
02 p0260 N84-11701
Use of electromagnetic field in patients following a disruption of cerebral circulation
07 p1044 N84-16768
Bioecholocation method for inestigation of parameters of intracranial circulation of blood and fluid in man
07 p1047 N84-16788

BRAIN DAMAGE
Development of a new, completely implantable intraventricular pressure meter and preliminary report of its clinical experience
[NASA-TM-77121] 18 p2535 N84-26276
Variations in EEG in relation to brain functional status
18 p2897 N84-28377

BRAKES (FOR ARRESTING MOTION)
NT DRAG CHUTES
NT SPLIT FLAPS
NT TRAILING-EDGE FLAPS
NT WING FLAPS
High temperature (1645 deg C, 3000 deg F) surface ignition test apparatus for fluids
[AD-A132658] 05 p0649 N84-14268
Regulation of mechanical characteristic of iron-powder electromagnetic brake 21 p3379 N84-31444

BRAKING
Heat generation in aircraft tires under braked rolling conditions
[NASA-CR-3768] 06 p0858 N84-15587
Braking-turning-maneuvering stability of heavy transporters 10 p1512 N84-19897

BRANCHING (MATHEMATICS)
Branching Atmospheric Trajectory (BAT) model
[PB83-233023] 01 p0110 N84-10717
Stable equilibria in a scalar parabolic equation with variable diffusion
[AD-A131221] 01 p0134 N84-10877
Branching processes in periodically varying environment
[CTH-MATH-1983-12-PREPRINT] 03 p0426 N84-12792
La Recherche Aerospatiale, Bimonthly Bulletin, no. 1982-2, 207/March-April 1982
[ESA-TT-759] 04 p0478 N84-13143
Bifurcation theory applied to the study of control losses on combat aircraft 04 p0478 N84-13144
Bifurcations in nonlinear problems of hydrodynamic instability of plane parallel shear flows
06 p0831 N84-15411
A periodically forced piecewise linear oscillator
06 p0856 N84-15577

Introduction to dynamic bifurcation
[AD-A133252] 06 p0901 N84-15846
Bifurcation analysis of aircraft pitching motions near the stability boundary
[NASA-TM-85861] 08 p1097 N84-17137
Smoothness of bounded solutions of nonlinear evolution equations
[AD-A135294] 08 p1219 N84-17958
Bifurcation of map resonance 1 : 4
[MC-TW-245/83] 13 p2035 N84-23204
Local bifurcation of a logistic delay map
[MC-TW-246/83] 13 p2035 N84-23205
Bifurcation and multiplicity results for nonlinear elliptic problems involving critical sobolev exponents
[AD-A139332] 14 p2219 N84-24315
Topical Meeting on Optical Bistability
[AD-A138996] 14 p2231 N84-24381
Chaos and optical bistability: Bifurcation structure
14 p2231 N84-24382
Optical bistability, chaos in the coherent two photon processes 14 p2231 N84-24384
Turbulence and 1/f noise in quantum optics
14 p2232 N84-24385
The physical mechanism of optical instabilities
14 p2232 N84-24389
Hopf bifurcation and the beam-plasma instability
[DE84-008243] 15 p2412 N84-25480
On a series of problems with machines: Costs of modernization and storage in case of demand
[TUM-M8312] 16 p2475 N84-25863
A study of elimination conditions for the permutation flow-shop sequencing problem
[CWI-OS-R8403] 17 p2754 N84-27483
Multiple limit point bifurcation for Fredholm operators of non-zero index
[AD-A141660] 19 p3086 N84-29589
Morse theory for symmetric functionals on the sphere and an application to a bifurcation problem
[AD-A141709] 19 p3087 N84-29596
Abelian integrals and bifurcation theory
[AD-A142198] 19 p3089 N84-29613
Hopf bifurcation and symmetry: Traveling and standing waves on the circle
[MC-TW-249/83] 19 p3091 N84-29631
Global bifurcation of a logistic delay map
[CWI-AM-R8402] 19 p3092 N84-29634
Transition bifurcation branches in non-linear water waves
[CAR-8418] 21 p3398 N84-31556
Hopf bifurcation in two-component flow
[AD-A142844] 21 p3400 N84-31568
Persistence of the Hopf bifurcation under singular perturbations
[DE84-013671] 22 p3646 N84-33120
Analysis, modeling and control of dynamical systems
[AD-A143937] 23 p3818 N84-34209

BRANCHING (PHYSICS)
Dynamic kinking and bifurcation of cracks in plane strain
[AD-P003113] 16 p2468 N84-25818

BRASSES
Evidence for stacking faults in multiaxial strained alpha-brass
[DE83-014118] 01 p0155 N84-11019
Life prediction under stress corrosion conditions below K sub ISCC
[DE83-018074] 03 p0355 N84-12307
Effect of liquid tin-zinc on the drilling parameters of several alloys
[PB84-134782] 10 p1464 N84-19562
Crack initiation model for stress corrosion cracking alpha-brass
[DE84-012837] 21 p3423 N84-31712

BRAYTON CYCLE
A rotary vane open reversed Brayton cycle air conditioning and refrigeration system
04 p0543 N84-13574
Evaluation of air-cooled central receivers
[DE83-005130] 06 p0833 N84-15423
Assessment of fuel cell propulsion systems
[DE84-006323] 15 p2420 N84-25536
Proceedings of the Fifth Parabolic Dish Solar Thermal Power Program
[NASA-CR-173745] 18 p2871 N84-28224
Overview of advanced Stirling and gas turbine engine development programs and implications for solar thermal electrical applications 18 p2872 N84-28231
Brayton module development overview
18 p2874 N84-28245
Near-term Brayton module status
18 p2874 N84-28246
Subatmospheric Brayton-cycle engine program review
18 p2874 N84-28247
Waste heat recovery from adiabatic diesel engines by exhaust-driven Brayton cycles
[NASA-CR-168257] 21 p3521 N84-32307

BRAZIL
The effects of solar incidence angle over digital processing of LANDSAT data
[E84-10007] 01 p0099 N84-10641
Study on the applicability of the international ionospheric model IRI 79 for obtaining electron density profiles
[INPE-2817-PRE/372] 02 p0247 N84-11619
Tidal and solar cycle effects on the OI 5577 angstrom, NaD and OH(8,3)airglow emissions observed at 23 deg S
[INPE-2901-PRE/419] 02 p0248 N84-11620
Geologic survey in the south-central region of Mato Grosso
[E84-10039] 04 p0551 N84-13632
Rise in the frequency of cloud cover in LANDSAT data for the period 1973 to 1981 — Brazil
[E84-10047] 04 p0553 N84-13640
Urban land use of the Sao Paulo metropolitan area by automatic analysis of LANDSAT data
[E84-10069] 07 p1020 N84-16616
Multiseasonal and geobotanical approach in remote detection of greisenization areas in the Serra da Pedra Branca Granite, Goias State, Brazil
[E84-10070] 07 p1020 N84-16617
CNPq/INPE LANDSAT system
[E84-10071] 07 p1020 N84-16618
Brazil wheat yield covariance model
[E84-10103] 12 p1829 N84-21921
Brazil soybean yield covariance model
[E84-10104] 12 p1829 N84-21922
Estimating monthly rainfall from geostationary satellite imagery over Amazonia, Brazil 13 p2016 N84-23069
Utilization of digital LANDSAT imagery for the study of granitoid bodies in Rondonia: Case example of the Pedra Branca massif
[E84-10120] 14 p2167 N84-23979
Evaluation of the effects of the seasonal variation of solar elevation angle and azimuth on the processes of digital filtering and thematic classification of relief units
[E84-10121] 14 p2167 N84-23980
Irrigated rice area estimation using remote sensing techniques: Project's proposal and preliminary results — Rio Grande do Sul, Brazil
[E84-10131] 16 p2506 N84-26081
Sampling system for wheat (Triticum aestivum L) area estimation using digital LANDSAT MSS data and aerial photographs — Brazil
[E84-10139] 16 p2506 N84-26087
Evaluation of solar angle variation over digital processing of LANDSAT imagery — Brazil
[E84-10140] 16 p2507 N84-26088
Application of LANDSAT data to the study of urban development in Brasilia
[E84-10142] 16 p2507 N84-26090
Forest inventory using multistage sampling with probability proportional to size — Brazil
[E84-10144] 16 p2507 N84-26092
Field data observed during the geological excursion in the west-central region of the Sul-Riogrande Shield
[E84-10146] 16 p2508 N84-26094
The use of an image registration technique in the urban growth monitoring
[E84-10147] 16 p2508 N84-26095
Evaluation of SIR-A (Shuttle Imaging Radar) images from the Tres Marias region (Minas Gerais State, Brazil) using derived spatial features and registration with MSS-LANDSAT images
[E84-10148] 16 p2508 N84-26096
Results of field observations of radio waves in alluvial deposits in Cara state from 1:100.000: Fortaleza, Canirde, Taperuaba, Santa Quiteria, Sobral, and Sao Luiz do Curu
[INPE-3061-NTE/216] 16 p2509 N84-26100
Methodological approach in lithological discrimination by digital processing: A case study in the Serra do Ramalho, state of Bahia
[INPE-3108-PRE/507] 16 p2509 N84-26101
On the 1983 drought in Northeast Brazil
[INPE-3110-PRE/509] 16 p2528 N84-26229
Diagnostics of rainfall anomalies in the Nordeste during the global weather experiment
[SAPR-1] 16 p2529 N84-26235
The use of photointerpretation for socio-economic characterization of urban population
[INPE-3067-PRE/484] 16 p2561 N84-26428
Identification and estimation of the area planted with irrigated rice based on the visual interpretation of LANDSAT MSS data
[E84-10164] 17 p2710 N84-27256
A sampling system for estimating the cultivation of wheat (Triticum aestivum L) from LANDSAT data
[E84-10165] 17 p2711 N84-27257
A report on the task of collecting geological and structural data in Rio de Janeiro state
[INPE-2851-NTE/203] 17 p2726 N84-27351
A rapid estimation of near earth satellite lifetimes with quasi-dynamic atmospheric model with application to a proposed Brazilian satellite 19 p3119 N84-29623
The INPE handouts to the 6th LANDSAT Technical Working Group (LTWG) Meeting
[E84-10176] 21 p3427 N84-31738
Two years experience testing solar collectors in Brazil
[INPE-3221-RPE/461] 21 p3434 N84-31785
Microfacies, depositional environments and diagenesis of the Amapa carbonates (Paleocene - Middle Miocene) Foz Do Amazonas Basin, offshore northeast Brazil
21 p3439 N84-31817
Microfacies, depositional models and diagenesis of Lagoa Feia Formation (lower cretaceous), Campos Basin, offshore Brazil 21 p3440 N84-31827
Nighttime enhancements in the TEC and magnetic storm response of the tropical F-region over Brazil
[INPE-3038-PRE/469] 21 p3442 N84-31839
Comparison between density profiles obtained at Cachoeira Paulista, Brazil, and deduced from IRI-79 model
[INPE-3136-PRE/527] 21 p3443 N84-31843
Observations of radiation exchange above and below Amazonian forest
[INPE-3194-PRE/558] 21 p3447 N84-31870
Quantitative interpretation of aeromagnetic anomalies in the Sinclinal Gandarela
[INPE-3070-PRE/487] 22 p3614 N84-32698
The severity of the Brazilian freeze of 1981 as monitored in real time by satellite
[INPE-2586-PRE/234] 22 p3625 N84-32967
Aspects of the Brazil current system according to SMS-2, NOAA-6, and Tiros-N satellites for 1979 to 1980
[INPE-2975-RPE/450] 22 p3627 N84-32982
Satellite telemetry
[INPE-2854-PRE/394] 23 p3699 N84-33444
Mapping project on land use changes in the carboniferous region of Santa Catarina
[NASA-CR-173946] 23 p3763 N84-33853
Irrigated lands: Monitoring by remote sensing
[NASA-CR-173945] 23 p3763 N84-33854
A comparative study of different products of sensor systems applied in a lithologic-structural analysis of the Quadrilatero Ferrifero area, Minas Gerais
[INPE-3210-TDL/174] 23 p3764 N84-33856
Chemical analysis of ions in rain water in natural regions: Correlations with aerosols in the atmosphere
[INPE-2856-PRE/395] 23 p3792 N84-34052
Preliminary chemical analysis of rain water in Cubatao: Ambient effects
[INPE-2857-PRE/396] 23 p3792 N84-34053
Barreira do Inferno: Five years of ozone research
[INPE-2974-PRE/437] 23 p3796 N84-34073
Temporal and latitudinal distribution of ionosphere irregularity in Brazil, data analysis of scintillations in very high frequencies and ionograms
[INPE-3179-TDL/172] 23 p3798 N84-34081
A first attempt to identify areas of high probability for the occurrence of surface skipjack schools (Katsuwonus pelamis), from an analysis of oceanographic data for the south-southeast region of Brazil
[INPE-2972-RPE/449] 23 p3803 N84-34112
A national program for data collection platforms: Information techniques for users
[INPE-3137-NTE/219] 24 p3858 N84-34456
Large scale tropical heat sources and global atmospheric energy propagation associated with droughts in Northeast Brazil
[INPE-3227-PRE/578] 24 p3918 N84-34806
A synoptic study of the influence of extra-tropical latitude systems on the climatic variability in northeast Brazil
[INPE-3225-PRE/576] 24 p3922 N84-34824
A study of the influence of extra-tropical latitude systems on the climatic variability in Northeast Brazil
[INPE-3264-PRE/595] 24 p3922 N84-34825
Are droughts predictable?
[INPE-3274-PRE/598] 24 p3923 N84-34826

BRAZILIAN SPACE PROGRAM
Current status of th Brazilian LANDSAT facilities
10 p1523 N84-19977
A preliminary definition of the Brazilian Complete Space Mission (MECB) ground segment
[INPE-3036-NTE/215] 17 p2612 N84-26717
An adaptive attitude controller for terrestrial artificial satellites
[INPE-3186-PRE/551] 21 p3349 N84-31243
Pitch control of a satellite using stabilizing flaps
[INPE-3185-PRE/550] 21 p3349 N84-31246
BRESEX: On board supervision, basic architecture and preliminary aspects for payload and space shuttle interface
[NASA-CR-173673] 21 p3353 N84-31271

BRAZING
Low-cycle fatigue behavior of oxygen-free high-conductivity copper at 3000C in high vacuum
[DE84-000725] 04 p0504 N84-13305

Copper-manganese-base silverless brazing systems
[PB83-250100] 04 p0545 N84-13593
Advantages of using diamond tools brazed under high vacuum
[CSIR-TRANS-1709] 06 p0813 N84-15293
Furnace brazing: A mass production method for producing high strength joints 09 p1292 N84-18434
Klystron manufacturing technology program
[AD-A135782] 09 p1309 N84-18555
Development of high strength braze joints in beryllium
[DE84-007243] 13 p1998 N84-22964
A study of aluminium brazes using hot stage scanning electron microscopy
[AERE-R-11083] 18 p2850 N84-28097
Graphite-ceramic RF Faraday-thermal shield and plasma limiter
[DE84-010960] 20 p3163 N84-30086
Sodium compatibility of refractory metal alloy/304L braze joints
[DE84-012877] 21 p3368 N84-31364
Materials for Advanced Turbine Engines (MATE): Project 3: Design, fabrication and evaluation of an oxide dispersion strengthened sheet alloy combustor liner
[NASA-CR-174691] 22 p3554 N84-32504

BREADBOARD MODELS
IPACS electronics: Comments on the original design and current efforts at Langley Research Center 03 p0345 N84-12240
Breadboard stellar tracker system test report
[NASA-CR-170973] 08 p1102 N84-17166
SAR transmitter
[SES/ENG/TN-254/83] 16 p2484 N84-25928
Color film preservation system: Breadboard development
[NASA-CR-171099] 19 p3026 N84-29194
A high-performance hybrid RF isolation amplifier 22 p3572 N84-32623

BREAKAWAY
U BOUNDARY LAYER SEPARATION

BREAKDOWN
Isotope dependence of the breakdown strength of gases
[DE83-017272] 03 p0373 N84-12430
Air-breakdown limits for microwave-pulse propagation. Part 1. Experiments
[DE83-017832] 04 p0523 N84-13438
Modeling and testing for second breakdown phenomena
[DE84-002470] 07 p0994 N84-16444
Silicon switch development for optical pulse generation in fusion lasers at Lawrence Livermore National Laboratory
[DE84-002798] 07 p1011 N84-16556
The physics of second breakdown
[AD-A136537] 09 p1395 N84-19109
Breakdown processes in large-area cold-cathode vacuum triodes
[DE84-014026] 22 p3602 N84-32817

BREAKERS (ELECTRIC)
U CIRCUIT BREAKERS

BREAKING
Dielectric breakdown of MXB-71 phenolic and Sylgard 184/GMB silicone at high temperature
[DE83-016768] 02 p0201 N84-11312
The breaking of ocean surface waves
[AD-A142356] 20 p3250 N84-30629

BREAKWATERS
West breakwater, Sines (Portugal) — conferences 08 p1194 N84-17785
West breakwater-Sines (Portugal). Overview of rehabilitation and synthesis of project 08 p1194 N84-17786
West breakwater-Sines (Portugal): Study of armor stability 08 p1194 N84-17788
West breakwater-Sines (Portugal): New aspects of armor units 08 p1195 N84-17789
Optmization of breakwater lengths in relation to wave penetration
[PUBL-312] 15 p2360 N84-25160

BREATHING
A study of personal exposure to carbon monoxide in Denver, Colorado
[PB84-146125] 12 p1866 N84-22161
The influence of sleep state on ventilatory control in humans 17 p2746 N84-27435

BREATHING APPARATUS
NT OXYGEN MASKS
NT UNDERWATER BREATHING APPARATUS
An analysis of potential protective breathing devices intended for use by aircraft passengers
[AD-A132648] 05 p0716 N84-14692
Study of metabolic sequelae of using positive intrapulmonary pressure during exposure to accelerations 07 p1045 N84-16776
Evaluation of proposed human subject certification tests for self-contained breathing apparatus
[PB84-172212] 17 p2748 N84-27447
Improved G-Tolerance with assisted positive pressure breathing and anti-gravity suit with ready pressure and faster filling
[FOA-A-58002-H1] 19 p3071 N84-29486

BRECCIA
Mineralogical investigations of lunar samples and meteorites
[NASA-CR-173246] 07 p1091 N84-17093

BREEDER REACTORS
NT EXPERIMENTAL BREEDER REACTOR 2
NT LIQUID METAL FAST BREEDER REACTORS
High-field Tokamaks with DD-DT operation and tritium-breeding requirements
[DE83-013092] 02 p0296 N84-11939
Thermal analysis of a helium-cooled tube-bank blanket module for a tandem-mirror fusion reactor
[DE83-015840] 02 p0297 N84-11945
Use of the disk bend test to assess irradiation performance of structural alloys
[DE84-001484] 06 p0806 N84-15255
Blanket comparison and selection study, volume 1
[DE84-003657] 10 p1585 N84-20392
Liquid metal breeder-coolant blanket concept
[DE84-006554] 20 p3302 N84-30971

BREMSSTRAHLUNG
Generation of monoenergetic positrons
[DE83-015535] 03 p0440 N84-12887
Nonlinear force on an unpolarized relativistic test particle to second order in the total field in a nonequilibrium beam-plasma system
[AD-A131631] 03 p0444 N84-12919
A study of thick-target X-ray spectra using photonuclear reactions
[AD-A132543] 04 p0596 N84-13934
X-ray production in long-scale length laser-plasma interaction experiments
[DE84-002472] 07 p1076 N84-16997
The total field in collective bremsstrahlung in a nonequilibrium relativistic beam-plasma system
[AD-A136595] 10 p1585 N84-20391
An X-ray survey of clusters of galaxies with the Einstein Observatory and a study of iron sedimentation in the intracluster gas 10 p1595 N84-20454
The impulsive hard X-rays from solar flares
[NASA-CR-175431] 11 p1759 N84-21480
On the form of the collective bremsstrahlung recoil force in a nonequilibrium relativistic beam-plasma system
[AD-A139895] 15 p2410 N84-25467
High resolution hard X-ray spectra of solar and cosmic sources
[NASA-CR-173561] 15 p2429 N84-25587
Comparative effects of bremsstrahlung, gamma, and electron radiation on rat motor performance
[AD-P003250] 16 p2904 N84-28417
Edge blurring in stacked X-ray film screen combinations
[DE84-009658] 19 p3027 N84-29200
Theoretical methods in the calculation of the bremsstrahlung recoil force in a nonequilibrium beam-plasma system
[AD-A142136] 19 p3089 N84-29609
Bremsstrahlung from longitudinal plasma waves produced by subthermal electrons in plasma 21 p3488 N84-32102
LINAC facility at Armed Forces Radiobiology Research Institute
[AD-A143970] 23 p3822 N84-34239
Physics of nonmagnetic relativistic thermal plasmas
[NASA-TM-86154] 24 p3965 N84-35107

BREWSTER ANGLE
Videopolarimetry of water surfaces
[BMFT-FB-W-83-020] 07 p1075 N84-16990

BRICKS
Interface bonding of shotcrete reinforced brick masonry assemblages, volume 1
[PB83-223206] 01 p0058 N84-10382

BRIDGES (STRUCTURES)
Prediction of dynamic effects due to vehicles crossing military bridges
[ISVR-TR-120] 03 p0391 N84-12548
The Shock and Vibration Digest, volume 15, no. 12
[AD-A138158] 10 p1506 N84-19852
Vehicle-structure interactions in bridge dynamics 10 p1506 N84-19853
Intramolecular electron transfer at metal surfaces. 2: Comparisons of ligand-bridged CR(3) reduction kinetics at silver versus mercury electrodes
[AD-A139047] 13 p1956 N84-22720
Aerodynamic instability of cable-stayed bridges: Theoretical experimental study of stall flutter 18 p2789 N84-27700
Evaluation of aerodynamic admittance of a model bridge oscillating with vertical motion
[NMI-R-175] 18 p2851 N84-28104
The aerodynamic admittance of model bridges
[NMI-R-176] 18 p2851 N84-28105
Research and development of long heat pipes and their applications — heating road surfaces on bridges 20 p3170 N84-30126
Fatigue behavior of longitudinal transverse stiffener intersection
[PB84-202092] 22 p3612 N84-32887
Fatigue behavior of welded joints subjected to variable amplitude stresses
[PB84-207620] 22 p3612 N84-32888
Study of the process of destruction of fibroconcrete slabs under a static load simulating the action of a motor vehicle's wheel on a bridge
[ISSN-0208-5658] 23 p3726 N84-33812
Analysis of fatigue crack propagation of structural steel members subjected to variable amplitude fatigue stress 24 p3957 N84-35055

BRIDGMAN METHOD
Growth and evaluation of AgGaS2 and AgGaSe2 for infrared nonlinear applications
[NASA-CR-175185] 08 p1234 N84-18066
Mathematical model for a simplified Bridgman-Stockbarger crystal growing system
[NASA-CR-171108] 21 p3504 N84-32202

BRIGHTNESS
NT SOLAR GRANULATION
Relative elevation determination from LANDSAT imagery 03 p0392 N84-12558
Preliminary evaluation of the light pen as the key component in a microcomputer-based simulator
[AD-A132596] 05 p0719 N84-14712
A sine-wave grating controller for vision testing
[AD-A135871] 09 p1318 N84-18610
Partial level down in brightness of Geostationary Meteorological Satellite (GMS) infrared (IR) images caused by the Moon 09 p1347 N84-18800
On the infra-red brightness level increase caused by the sun light during the eclipse period 09 p1347 N84-18804
A study of coronal precursors of solar flares
[AD-A137163] 11 p1759 N84-21482
An automatic sine-wave grating controller to be used for contrast sensitivity testing
[AD-A138294] 12 p1812 N84-21811
Optical studies of moon rock samples at various degrees of maturity 19 p2975 N84-29861

BRIGHTNESS DISCRIMINATION
DOE-2, supplement, version 2.1B
[LBL-8706-REV-3-SUPPL] 16 p2519 N84-26171
Influence of level of adaptation to light upon estimation of brightness 18 p2898 N84-28385

BRIGHTNESS DISTRIBUTION
Eclipse mapping of accretion disks in cataclysmic binaries 04 p0618 N84-14060
An X-ray survey of variable radio bright quasars
[NASA-TM-86094] 14 p2250 N84-24512
Morning twilight observations of the zodiacal light and terrestrial airglow 16 p2526 N84-26222
Microwave and X-ray observations of delayed brightenings at sites remote from the primary flare locations
[NASA-TM-86140] 22 p3680 N84-33326

BRIGHTNESS TEMPERATURE
Antartic sea ice, 1973 - 1976: Satellite passive-microwave observations
[NASA-SP-459] 01 p0110 N84-10718
Mathematical models for the brightness temperature of object and environment in the microwave region
[DFVLR-FB-83-12] 02 p0211 N84-11378
Passive microwave sensing of soil moisture content: Soil bulk density and surface roughness
[E84-10019] 02 p0237 N84-11556
Snowpack ground-truth manual
[NASA-CR-170584] 02 p0239 N84-11569
Principles of thermal remote sensing 05 p0695 N84-14565
Estimating oceanic rainfall using microwave and GOES infrared satellite data
[PB83-253013] 05 p0709 N84-14648
Support for the Naval Research Laboratory Environmental Passive Microwave Remote Sensing Program
[AD-A133330] 06 p0847 N84-15526
Thermal tides in the atmosphere of Venus 06 p0876 N84-15702
Snow thickness and brightness temperature on multi-year ice
[AD-A133940] 06 p0884 N84-15747

A comparison of SMMR (Scanning Multichannel Microwave Radiometer) and airborne microwave measurements during GOASEX (Gulf of Alaska experiment)
[AD-A134514] 07 p1008 N84-16534
Submillimeter astronomy at the NASA/University of Hawaii 3-meter infrared telescope facility
[NASA-CR-173269] 07 p1089 N84-17083
Three dimensional structure and time development of radio emission from solar active regions
[AD-A126640] 07 p1093 N84-17110
Dual channel water vapor radiometer system
[PB84-119445] 08 p1189 N84-17746
The relation between isolated tree brightness temperature and grass background brightness temperature
[AD-A135843] 09 p1389 N84-19070
Inversion algorithms for water vapor radiometers operating at 20.7 and 31.4 GHz
10 p1473 N84-19623
An analysis of new techniqes for radiometric correction of LANDSAT-4 Thematic Mapper images — Terrebonne Bay, Louisiana and Grand Bahamas scenes
[E84-10066] 10 p1521 N84-19957
A statistical method to sense sea surface temperature from the Nimbus-7 scanning multichannel microwave radiometer 12 p1835 N84-21964
Results of the joint NASA/NOAA AMTS/HIRS2 sounding simulation test 12 p1851 N84-22059
A new algorithm for tuning of computed radiances for HIRS2/MSU 12 p1852 N84-22063
The prediction of tropopause height from clusters of brightness temperatures and its application in the stratified regression temperature retrievals using microwave and infrared satellite measurements
12 p1852 N84-22064
Applications of cluster analysis to satellite soundings
12 p1852 N84-22065
A microwave systems approach to measuring root zone soil moisture
[E84-10114] 13 p2005 N84-23007
Use of remote sensing for land use policy formulation
[E84-10117] 14 p2167 N84-23977
Satellite observations of a monsoon depression
[NASA-CR-173590] 16 p2528 N84-26232
Near infrared observations of the visual reflection nebulae NGC 7023, NGC 2023 and NGC 2068
16 p2570 N84-26497
The behaviour of the 3.28 micron dust feature in NGC 2024 16 p2571 N84-26498
Crop moisture estimation over the southern Great Plains with dual polarization 1.66 centimeter passive microwave data from Nimbus 7
[E84-10163] 17 p2710 N84-27255
Matrix partitioning and EOF/principal component analysis of Antarctic Sea ice brightness temperatures
[NASA-TM-83916] 17 p2721 N84-27319
Applications of satellite observations to the radiation budget, fluxes and the general circulation
[PB83-256818] 17 p2735 N84-27383
Seasonal variation of spectral brightness coefficients for barley and rye 19 p2977 N84-28872
The effect of row direction on the microwave emission from vegetation canopies 23 p3767 N84-33877
Surface based brightness temperatures of sea ice in the Bering and Greenland Seas
23 p3773 N84-33918
Preliminary investigations concerning a 90 GHz radiometer satellite experiment
23 p3781 N84-33978
Saturn's rings: 3-mm low-inclination observations and derived properties
[NASA-TM-87363] 23 p3844 N84-34367
A new procedure of objective target cloud selection for the GMS cloud wind estimation system and the accuracy of the resultant wind vectors 24 p3921 N84-34819

BRILLOUIN EFFECT
Stimulated Brillouin backscatter in long scale length plasmas
[DE83-013817] 01 p0150 N84-10984
Absolutely unstable stimulated Brillouin scattering and 2-plasmon decay
[DE84-000623] 04 p0611 N84-14032
Melting phenomena investigated by laser light scattering
[DE84-002004] 07 p1010 N84-16554
Study of stimulated Brillouin and Raman scattering
[DE84-011260] 20 p3194 N84-30256

BRILLOUIN ZONES
Electronic properties of semiconductor interfaces
[AD-A130745] 01 p0152 N84-11002

BRINES
New fluorocarbon elastomers for seals for geothermal and other aggressive environments
[DE83-014424] 01 p0090 N84-10580
Petrographic examination of Bell Canyon Tests (BCT) 1-FF field grouts over a 3-year period
[DE83-018226] 04 p0555 N84-13654
Salton Sea Geothermal Field, California, as a near-field natural analog of a radioactive waste repository in salt
[DE84-003851] 09 p1346 N84-18794
Generating capacity of the Heber geothermal field, California
[DE84-006883] 13 p2009 N84-23030
Prediction of long term crevice corrosion and hydrogen embrittlement behavior of ASTM grade-12 titanium — containers for radioactive waste disposal
[DE84-002575] 14 p2128 N84-23759
Helical rotary screw expanders to generate electricity from geothermal brines 15 p2430 N84-25596
Environmental assisted fracture of cast and wrought steels in brine
[DE84-011870] 20 p3158 N84-30058
Comparison between two Lysholm engines
[DE84-013696] 22 p3564 N84-32571
Diagensis and deformation of the Madison Group, Colorado and Utah overthrust belt
22 p3620 N84-32938

BRISTOL-SIDDELEY BS 53 ENGINE
Ground based testing without wind tunnels
16 p2437 N84-25634

BRITISH GUINEA
U GUYANA

BRITTLE MATERIALS
Refined test methods in evaluating brittle material strengths
[AD-A133596] 06 p0861 N84-15610
The statistical theory of the fracture of fragile bodies. Part 2: The integral equation method
[NASA-TM-77449] 19 p3035 N84-29250
Review of the strength of brittle rock materials
23 p3722 N84-33586
Some aspects of the deformation and brittle destruction of elastooptic materials 23 p3722 N84-33587
Strength of gypsum in complex states of stress
23 p3722 N84-33588

BRITTLENESS
Initial evaluation of molybdenum-rhenium alloy for reactor heat pipes
[DE83-012687] 01 p0145 N84-10955
Strain rate effects on ductile/brittle transitions in steels
[DE83-016906] 03 p0355 N84-12308
Cobalt ion-containing epoxies
[NASA-TM-85715] 04 p0505 N84-13309
Effect of contact damage on the strength of ceramic materials
[AD-A133746] 05 p0658 N84-14327
A microscopic analysis of brittle fracture in deformable solids 05 p0691 N84-14537
MIT miniaturized disk bend test
[DE84-001275] 05 p0694 N84-14554
Investigations on the reproducibility of the results of drop weight tests by the method of W. S. Pellini
[BLL-DRIC-T-6970-(3623.66)] 06 p0846 N84-15517
Microcrack damage model of brittle rock
[DE84-002088] 06 p0879 N84-15717
Vinyl styrylpyridines and their copolymerization with bismaleimide resins
[NASA-CASE-ARC-11429-1-CU]
07 p0979 N84-16341
Tensile fracture of ductile materials
[NASA-CR-173607] 16 p2464 N84-25792
Processes controlling the dynamic fracture of brittle solids
[AD-P003108] 16 p2467 N84-25813
Effect of austenitisation heat treatment on the fracture resistance and temper embrittlement of MnMoNi steels
[AERE-R-11043] 18 p2816 N84-27882
Phase transformations in nearly stoichiometric nickel-manganese alloys 21 p3364 N84-31340
Role of grain size on the brittle to ductile transition of the strongly ordered alloy Ni3Al
[DE84-014904] 22 p3556 N84-32519
Deformation and failure of titanium aluminide
23 p3709 N84-33510
Investigation of rapidly solidified Ni3Al-based alloys
[AD-A144174] 24 p3883 N84-34604
Erosion mechanisms of metals
[AD-A144194] 24 p3884 N84-34605

BROADBAND
A wideband low-sidelobe disc-o-cone antenna
[AD-A131440] 02 p0210 N84-11370
A broadband high power millimeter to centimeter spectrometer
[AD-A131629] 02 p0294 N84-11927
Low frequency Raman spectra of V-B2O3 as a function of temperature and pressure
[AD-A132699] 05 p0649 N84-14270
An evaluation of the broadband direction finding capabilities of array signal processing techniques
05 p0665 N84-14368
Broadband electromagnetic interference testing for vehicles and electrical subsystems - noncommunications
[AD-A134087] 05 p0666 N84-14381
Optimum filtering required for broadband detection of Gaussian processes
[AD-A133721] 05 p0735 N84-14823
Broadband base isolated asymmetrically fed VHF antenna 06 p0827 N84-15393
A wideband corner-reflector antenna for 240 to 400 MHz
[AD-A134281] 07 p0992 N84-16433
A diagnostic probe to investigate propagation at millimeter wavelengths
[PB84-104223] 08 p1148 N84-17473
Adaptive feedforward linear wideband HF power bank
[AD-A134744] 08 p1151 N84-17493
Handbook for broadband isotropic antenna system. Volume 1: Operation manual
[PB84-101948] 08 p1153 N84-17510
Development of innovative millimeter-wave broadband mixers
[AD-A136134] 09 p1310 N84-18562
Investigation of high efficiency large TBW line acoustic wave convolvers
[AD-A135686] 09 p1387 N84-19056
Comments on measures of performance of selected signal detectors
[AD-A137102] 10 p1482 N84-19684
Millimeter wave metal-insulator-metal detector/mixer diode
[AD-A136391] 12 p1812 N84-21815
Characterization of microstrip fixtures, a broadband model for a microstrip connector
[FOA-C-30338-E] 12 p1814 N84-21824
SETI science working group report
[NASA-TP-2244] 12 p1869 N84-22178
Broadband rotor noise analyses
[NASA-CR-3797] 12 p1899 N84-22365
Local network wideband interconnection alternatives
[AD-A138604] 13 p1982 N84-22868
Analysis of propagation conditions at 20 and 30 GHz in Europe
[CRPE-NT-122] 13 p1984 N84-22880
Theoretical and experimental investigations for the construction of a continuous, RF-excited waveguide CO2-laser with high frequency tunability and high output power
[IPF-83-1] 14 p2151 N84-23889
Ultraviolet and X-ray observations of active galactic nuclei: Constraints on models of the broad emission line region 15 p2423 N84-25560
V-band IMPATT transmitter
[NASA-CR-175249] 18 p2832 N84-27976
A wide band 44 GHz printed circuit conformal array
[AD-P003404] 19 p3014 N84-29108
Multi-shaker random mode testing
[AD-A142094] 19 p3089 N84-29608
Role of empirical methods 19 p3097 N84-29670
Priority for empirical methods development
19 p3097 N84-29671
Synthesis of arbitrary broadband signals for a parametric array
[AD-D011021] 19 p3100 N84-29691
Broadband microstrip matching techniques
[AD-P003506] 21 p3384 N84-31474
Angle resolution of wideband signals received by two slightly diverse linear antenna arrays
22 p3565 N84-32582
The broad-band X-ray spectrum of a QSO sample
[NASA-TM-85071] 22 p3681 N84-33333
Broadband guided-wave optical frequency translator using an electro-optical Bragg array
[AD-D011164] 23 p3825 N84-34260
Measurement of small elastic anisotropy in solids using laser induced ultrasonic pulses
[AD-A144296] 24 p3912 N84-34775
Spatio-temporal spectral analysis by eigenstructure methods
[AD-A144361] 24 p3951 N84-35017

BROADBAND AMPLIFIERS
Cyrogenic FET IF-amplifier for a mm wave mixer
[REPT-S-124] 09 p1310 N84-18566

BROADCASTING
Geometric models, antenna gains, and protection ratios as developed for BC SAT-R2 conference software
[NASA-TM-83381] 02 p0208 N84-11358
Ionospheric propagation in the L. F. broadcasting band
[BBC-RD-1983/15] 05 p0665 N84-14375
Advanced teleprocessing systems
[AD-A133525] 06 p0824 N84-15375

Satellite broadcasting: Protection ratio requirements for enhanced transmissions using extended PAL vision and digital sound signals
[BBC-RD-1983/18] 07 p0986 N84-16386
Broadcasting satellites at 12 GHz for Region 2: Technical characteristics
[NASA-TM-83522] 10 p1476 N84-19640
The CARFAX road traffic information system
[BBC-RD-1984/1] 13 p1975 N84-22818
Engineering calculations for communications satellite systems planning
[NASA-CR-173532] 14 p2113 N84-23662
An experimental system of FM data-broadcasting
[NHK-SERIAL-293] 15 p2319 N84-24919
International law gives states right to jam foreign radio broadcasts 15 p2327 N84-24972
USSR report: Electronics and electrical engineering
[JPRS-UEE-84-008] 21 p3376 N84-31427
The acoustic design of outside broadcast vehicles
[BBC-RD-1984/3] 21 p3381 N84-31454
Selected worldwide marine weather broadcasts
[PB84-192855] 21 p3450 N84-31894
USSR report: Electronics and electrical engineering
[JPRS-UEE-84-006] 22 p3565 N84-32580

BROKEN SYMMETRY
Axions in cosmology
[DE83-015590] 01 p0156 N84-11028
W decay in supergravity GUTS
[DE83-015144] 02 p0291 N84-11911
Research in theoretical physics
[DE83-0168222] 03 p0456 N84-13004
Electron-electron interactions and broken symmetry in one dimension
[DE84-001704] 06 p0925 N84-16014
Superfluid hydrodynamics of inhomogeneous states: Systems with broken gauge-translation-symmetry
[JUEL-1858] 10 p1495 N84-19773
Research in elementary particle physics
[DE84-006130] 12 p1903 N84-22392
Matter antimatter domains: A possible solution to the CP domain wall problem in the early universe
[NASA-TM-86100] 15 p2425 N84-25565

BROMIDES
NT HYDROBROMIC ACID
NT SILVER BROMIDES
Assessment of the BCL and ORL chemical heat pumps
[DE83-011450] 01 p0080 N84-10518
Performance test results of an absorption heat pump which is designed to utilize low-temperature 600C (1400F) industrial waste heat
[DE83-017194] 04 p0537 N84-13533
Zinc electrode morphology in acid electrolytes
[DE84-007184] 14 p2124 N84-23728
Human response to pyridostigmine bromide
[AD-A140960] 18 p2900 N84-28395
Laser induced nitrations of some aliphatic hydrocarbon compounds 21 p3373 N84-31404
Electrochemical performance of porous nickel sulfide electrodes
[DE84-009586] 22 p3590 N84-32741

BROMINATION
Production of hydrogen from renewable resources
[DE84-000082] 14 p2132 N84-23780
The bromination of pyrazabole
[AD-A144264] 24 p3880 N84-34581
Synthesis of monomers for the preparation of regiospecifically substituted poly(phenylacetylenes) as potential chemical detectors
[AD-A144690] 24 p3889 N84-34628

BROMINE
Development of analytical methodology for the measurement of chlorine and bromine in the stratosphere
[AD-A132640] 05 p0703 N84-14614

BROMINE COMPOUNDS
NT BROMIDES
NT HYDROBROMIC ACID
NT POLYBROMINATED BIPHENYLS
NT SILVER BROMIDES
Assessment of the BCL and ORL chemical heat pumps
[DE83-011450] 01 p0080 N84-10518

BRONCHI
Modulation of the cholinergic mechanisms in the bronchial smooth muscle
[NDRE/PUBL-84/1001] 21 p3457 N84-31937

BRONZES
Metallurgical characterization of Niobium/Tin superconducting multifilamentary wires
[AD-A131018] 01 p0044 N84-10281
Process development of making bearings and bushings from continuous-cast SAE 660 bronze alloy plate
[DE83-014234] 01 p0057 N84-10374
Ferroelectric tungsten bronze bulk crystals and epitaxial thin films for electro-optic device applications
[AD-A138693] 13 p2046 N84-23276
Temperature-compensated piezoelectric materials
[AD-A139279] 14 p2242 N84-24460
Bimetal and multimetal galvanic corrosion prediction using long- and short-term polarization curves
[AD-A139893] 15 p2297 N84-24786
In-situ measurements of bronze deterioration
[DE84-007300] 15 p2299 N84-24796
Dependence of realizability of selective mass transfer during friction of aluminum bronzes against steel on composition of lubricating fluid 17 p2641 N84-26901
Dependence of realizability of selective mass transfer during friction of tin bronzes against steel in hydraulic system mechanisms on concentration of alloying elements 17 p2642 N84-26902
Elastoplastic double-wall shells under intricate nonisothermal load 17 p2651 N84-26951
Single crystal growth of ferroelectric tungsten bronze compositions for SAW applications
[AD-A141741] 19 p3110 N84-29763
Critical current density of bronze-processed multifilimentary Nb-3Sn wires with magnesium addition to the matrix
[DE84-014579] 23 p3719 N84-33576
Effect of boundary conditions on the damping characteristics of a randomly excited cast nickel-aluminum bronze specimen at low stress levels
[AD-A143685] 23 p3761 N84-33837

BROWNIAN MOVEMENTS
The measurement of the diffusive motion of protons in biological systems
[AD-A129276] 01 p0142 N84-10930
The nonlinear filtering problem for the unbounded case
[AD-A136501] 09 p1376 N84-18985
Markov processes applied to control, replacement, and signal analysis
[AD-A136508] 09 p1382 N84-19023
Geometric bounds on the Ornstein-Uhlenbeck velocity process
[CTH-MATH-1983-17] 13 p2037 N84-23212
Hitting probabilities of killed Brownian motion: A study on geometric regularity
[CTH-MATH-1983-11] 14 p2219 N84-24314
Optimal control of partially observable stochastic systems with an exponential-of-integral performance index
[MC-BW-194/83] 17 p2761 N84-27534
A nonstandard construction of Levy Brownian motion
[REPT-82] 20 p3285 N84-30861
Brownian motion and random walks on manifolds 22 p3636 N84-33051
Markov processes applied to control, replacement and signal analysis
[AD-A144225] 24 p3953 N84-35034

BRUCETON TEST
U STATISTICAL TESTS

BRUSHES
NT BRUSHES (ELECTRICAL CONTACTS)
Seawater hydraulics: Development and evaluation of an experimental diver tool system
[AD-A142032] 19 p3032 N84-29231
Friction and wear studies of liquid metal wetted, metallic fiber brushes
[AD-A143473] 22 p3604 N84-32831

BRUSHES (ELECTRICAL CONTACTS)
Improved transistor-controlled and commutated brushless DC motors for electric vehicle propulsion
[NASA-CR-168053] 01 p0069 N84-10450
Design and testing of high performance brushes
[AD-A131348] 02 p0213 N84-11394
Sliding electric contacts in space: Observations on existing technology and new trends in low-speed applications 09 p1294 N84-18455
Repetitive switching for an electromagnetic rail gun
[AD-A138360] 12 p1812 N84-21814
Shaft transducer having dc output proportional to angular velocity
[NASA-CASE-NPO-15706-1] 18 p2838 N84-28017

BUBBLE CHAMBERS
Operation of the Brookhaven MPS Facility
[DE83-015383] 03 p0441 N84-12896

BUBBLE MEMORY DEVICES
A program of research on microfabrication techniques for VLSI magnetic devices
[AD-A131706] 03 p0452 N84-12978
Investigation of fast initialization of spacecraft bubble memory systems
[NASA-TM-85832] 18 p2832 N84-27977

BUBBLE TECHNIQUE
An experimental investigation of the structure of a turbulent reattaching flow behind a backward-facing step 06 p0832 N84-15415
Investigation of fast initialization of spacecraft bubble memory systems
[NASA-TM-85832] 18 p2832 N84-27977

BUBBLES
Demonstration of gas bubbles in canine pulmonary artery and aorta by means of ultrasonic echography with intravenous air infusion 02 p0261 N84-11706
Irradiation response in titanium-modified austenitic stainless steels prepared by rapid-solidification processing. Part 2. Dual-ion irradiations
[DE84-001297] 04 p0500 N84-13282
Irradiation response in titanium-modified austenitic stainless steels prepared by rapid-solidification processing. Part 1: Microstructural response to neutron irradiation
[DE84-001298] 04 p0501 N84-13283
Physical modeling of the champagne effect
[DE84-001813] 04 p0516 N84-13388
Colored bubbles: An experiment for triggering equatorial spread F 05 p0640 N84-14212
Mass transfer at gas-evolving surfaces in electrolysis
[DE84-002567] 05 p0651 N84-14282
An acoustic levitation technique for the study of nonlinear oscillations of gas bubbles in liquids
[AD-A132858] 05 p0661 N84-14477
Focused acoustical and optical backscattering from spheres and properties of optoacoustic sources
[AD-A133744] 05 p0747 N84-14904
The effect of gas bubbles and cavity dimensions on the local electrode potential within pits, crevices and cracks
[AD-A134729] 08 p1132 N84-17364
Interaction of weak shock waves and discrete gas inhomogeneities 08 p1155 N84-17517
Experimental study of bubble cavities attached to a rotating shaft in a reservoir
[NASA-TM-83586] 08 p1157 N84-17533
ALESEP: A computer program for the analysis of airfoil leading edge separation bubbles
[NASA-CR-172310] 13 p1926 N84-22537
Bubbles rising in a tube and jets falling from a nozzle
[AD-A139266] 14 p2145 N84-23858
G-36, 39 and 40: An artist's exploration of space — using the space environment to create orbiting sphere configurations 18 p2801 N84-27774
Modeling kinetics of aerodisperse phase in ocean surface layer 18 p2859 N84-28153
Verification of an altitude decompression sickness prevention protocol for Shuttle operations utilizing a 10.s psi pressure stage
[NASA-TM-58259] 18 p2899 N84-28392
Analysis of airfoil transitional separation bubbles
[NASA-CR-3791] 20 p3126 N84-29854
Mie scattering as a technique for the sizing of air bubbles
[AD-A142737] 21 p3498 N84-32170
Features of behaviour of gas bubbles in molten oxide films during enamelling
[BLL-M-35672-(5828.4)] 22 p3553 N84-32496
The effects of porous material on microbubble skin friction reduction
[AD-A143401] 22 p3593 N84-32756
Rising bubbles in a two-dimensional tube with surface tension
[AD-A144693] 24 p3953 N84-35031

BUCKEYE AIRCRAFT
U T-2 AIRCRAFT

BUCKLING
NT CREEP BUCKLING
NT ELASTIC BUCKLING
NT THERMAL BUCKLING
Proceedings of the 8th Annual Mechanics of Composites Review
[AD-A130750] 01 p0031 N84-10196
Seismic behavior of steel bent-bracing system
[PB83-224840] 01 p0061 N84-10399
Further results on the predictions of collapse pressure of a ring stiffened cylindrical shell subject to hydrostatic pressure
[AD-A130877] 01 p0095 N84-10619
Dynamic pulse buckling, theory and experiment. Handbook
[AD-A130910] 01 p0095 N84-10621
Inelastic stability of tapered, singly-symmetric beam-columns 02 p0230 N84-11509
Buckled plate vibrations, large amplitude vibrations and nonlinear flutter of elastic plates using high-order triangular finite elements 03 p0387 N84-12523
Stability, vibration and passive damping of partially restrained imperfect columns
[NASA-TM-85697] 04 p0548 N84-13608
Buckling, postbuckling, and crippling of materially nonlinear composite plates 05 p0644 N84-14239
Buckling flow and transition to turbulence in axisymmetric plumes 05 p0682 N84-14486
Buckling of turbulent jets 05 p0683 N84-14488

Buckling analysis of end restrained imperfect tubular beam columns 05 p0691 N84-14539
Miniature center-cracked-tension specimen for fatigue crack growth testing
[DE84-001470] 06 p0862 N84-15615
Optimization of laminated composite cylindrical shells for axial buckling 07 p0985 N84-16377
An analysis of the buckling of truncated or complete spherical shells under axial compressive loads 07 p0985 N84-16379
Buckling of flat rectangular orthotropic plates - computer program. (Application to laminated composite plates)
[ESDU-81047] 07 p1014 N84-16580
Buckling loads of stiffened panels subjected to combined longitudinal compression and shear: Results obtained with PASCO, EAL, and STAGS computer programs
[NASA-TP-2215] 07 p1015 N84-16585
Technical theory of pneumatic beams — inflated beams
[FOA-C-20504-E4] 08 p1172 N84-17634
Buckling of a sublaminate in a quasi-isotropic composite laminate
[NASA-TM-85755] 09 p1275 N84-18325
Interaction between local and overall buckling modes in axially stiffened cylindrical shells
[UTIAS-247] 09 p1328 N84-18674
POSTOP: Postbuckled open-stiffener optimum panels, user's manual
[NASA-CR-172260] 09 p1330 N84-18682
Buckling strength of corrugated shear webs
[NAL-TR-759] 09 p1330 N84-18684
Calculation methods for fiber reinforced components 10 p1452 N84-19484
Buckling of stiffened cylindrical bins under wind loading
[PB84-137926] 10 p1518 N84-19941
TEM studies on the deformation structure of Cu-10Ni-6Sn spinodal alloy
[DE84-004426] 11 p1635 N84-20690
Nonlinear analysis of thin-walled I-sections in bending
[PB84-137918] 11 p1669 N84-20890
Buckling of optical fibers within elastomers used in an embedded-core cable structure 11 p1722 N84-21233
Finite deformation of viscoelastic disks
[DE84-002795] 12 p1827 N84-21908
Effect of pressure on the mechanical properties of polymers, part 3
[DE84-006653] 14 p2130 N84-23770
Analytical results for postbuckling behavior of plates in compression and shear
[NASA-TM-85766] 14 p2157 N84-23922
An interpretive study of plate and shell buckling
[AD-A140487] 16 p2502 N84-26062
Thermal response of Space Shuttle wing during reentry heating
[NASA-TM-85907] 18 p2802 N84-27785
Postbuckling behavior of graphite-epoxy panels 20 p3146 N84-29976
The effect of finite rotation on a problem in plastic deformation
[DE84-012627] 21 p3423 N84-31710
Simple examples of non linear truss behavior
[AD-A143368] 22 p3611 N84-32882
Analysis of instability-related growth of a through-width delamination
[NASA-TM-86301] 23 p3711 N84-33524
Rapid determination of upper and lower bounds to buckling loads and natural frequencies of non-uniform bars 23 p3759 N84-33827
Post-buckling of initially stressed thick plates 24 p3958 N84-35060
Stability analysis of elastic-plastic rectangular plate with opening 24 p3958 N84-35062

BUDGETING
Bounding the costs of hedging against Space Shuttle contingencies: A policy analytic approach
[N1829-AF] 02 p0184 N84-11196
Activities report of the aerospace industry in West Germany 03 p0328 N84-12139
Activities report of the aerospace industry in West Germany 03 p0328 N84-12140
Integrated budget control using a desktop computer 05 p0717 N84-14697
Computerised plant control system 05 p0717 N84-14698
The Microelectronics Center: A new force in cooperative VLSI signal processing research 09 p1403 N84-19166
Program Manager: The Journal of the Defense Systems Management College, volume 13, no. 2, March - April 1984
[AD-A141770] 19 p3114 N84-29789
A steady-state version of a dynamic optimal budgeting problem
[AD-A142281] 20 p3312 N84-31034
An evaluation of the system 2000 data base management system for use in major item system mapping
[DE84-013130] 21 p3519 N84-32296
Research salaries
[INPE-2971-NTE/209] 23 p3832 N84-34307

BUDGETS
Academic science/engineering: R and D funds, fiscal year 1981(detailed statistical tables)
[PB83-228213] 01 p0160 N84-11057
Use of economic mechanisms in managing scientific and technical progress 13 p2064 N84-23389
Computer developments at Institute of Automation and Electrometry described 13 p2065 N84-23390
CONUS Loran-C error budget: Flight test
[AD-A139871] 15 p2259 N84-24568
Program plan, book 7
[NAS 1.15:86652-BK-7] 23 p3699 N84-33443

BUFFER STORAGE
Methods for choosing buffer size in tandem production operations
[AD-A132639] 05 p0735 N84-14828
Elastic buffers for digital rings
[NPL-DITC-38/84] 20 p3172 N84-30143
Data buffer apparatus between subsystems which operate at differing or varying data rates
[AD-D011206] 24 p3940 N84-34941

BUFFERS
Design aspects of loose buffer tube fiber optics cable 11 p1722 N84-21234

BUFFERS (CHEMISTRY)
Undoped buffer layer development
[AD-A139758] 15 p2413 N84-25484
Alkali-SCl2 chemiluminescence: Vibrational population inversion in the B state of S2
[AD-A143639] 23 p3754 N84-33794

BUILDING MATERIALS
U CONSTRUCTION MATERIALS

BUILDING STRUCTURES
U BUILDINGS

BUILDINGS
Preliminary analysis of the seismic vulnerability of selected buildings at Fort Ord, California using the rapid eismic analysis procedure
[AD-A130924] 01 p0057 N84-10372
Building systems and smoke control 04 p0511 N84-13348
Human behavior 04 p0511 N84-13352
Lateral-torsional response of structures subjected to seismic waves
[PB83-239582] 04 p0516 N84-13390
Assessment of indoor dose from gamma ray emitters and radon daughters in Milan
[CISE-2118] 07 p1073 N84-16974
Performance monitoring of active solar energy systems
[DE84-000027] 12 p1844 N84-22022
Standard for fire protection of DOE electronic computer/data processing systems
[DE84-007194] 14 p2135 N84-23793
Predicting energy savings attributed to daylighting 16 p2514 N84-26132
The predicted impact of linear roof apertures on the energy performance of office buildings 16 p2514 N84-26133
Results from the NBS passive test building: A status report 16 p2514 N84-26135
Parameter estimation and infiltration tests at the repeat facility 16 p2514 N84-26136
Passive solar manufactured buildings development and analyses 16 p2514 N84-26137
Whole building performance monitoring: Measurements on baseline buildings 16 p2515 N84-26145
Performance monitoring highlights of BERD programs 16 p2516 N84-26146
Survey of design tools for passive and hybrid low energy buildings 16 p2516 N84-26147
Multi-family update to the passive solar construction handbook 16 p2516 N84-26149
Convective heat transfer inside passive solar buildings 16 p2517 N84-26154
DOE-2, BDL summary, version 2.1B
[LBL-8668-REV-3] 16 p2519 N84-26170

BULGING
Free bulging of round diaphragm exposed to uniform pressure in state of creep
[BLL-M-35680-(5828.4)] 22 p3608 N84-32861

BULK ACOUSTIC WAVE DEVICES
Research and development of subsurface acoustic wave device configurations for sensor applications
[AD-A133659] 05 p0742 N84-14877
Analysis and acoustooptical measurements of bulk and surface acoustic wave fields
[NASA-CR-173271] 07 p1069 N84-16945
S-band SBAW microwave source, phase 2
[NASA-CR-175153] 08 p1142 N84-17432
Bulk acoustic resonator tracking filter
[AD-D011159] 23 p3821 N84-34233

BULK MODULUS
Elastic moduli of H2O: Liquid, ice 6 and ice 7
[DE83-017960] 05 p0652 N84-14284

BUMPY TORUSES
Theoretical aspects of throat-launch microwave heating in EBT-S
[DE83-015762] 03 p0438 N84-12875
Theoretical studies of fusion physics. Volume 1: Summary
[DE83-010378] 03 p0445 N84-12924
Theoretical studies of fusion physics. Volume 2: Appendices
[DE83-010371] 03 p0445 N84-12925
Detailed modeling of microwave energy deposition in EBT devices
[DE83-017496] 03 p0449 N84-12952
Effect of magnetic bending on the high-frequency stability of the ELMO Bumpy Torus
[DE83-017177] 03 p0450 N84-12961
Ambipolarity and transport with resonant ion diffusion in EBT
[DE84-000333] 04 p0606 N84-14000
Radial structure of curvature-driven instabilities in hot-electron plasma
[DE84-002256] 06 p0921 N84-15986
Studies in RF emission and absorption in EBT plasmas
[DE84-002118] 07 p1076 N84-16996
Proceedings of the Advanced Bumpy Torus Concepts Workshop
[DE84-002406] 09 p1392 N84-19091
Neoclassical transport associated with collisionless detrapping in a bumpy torus
[IPPJ-651] 10 p1580 N84-20350
Transport studies of ECH heated bumpy torus plasmas
[IPPJ-652] 10 p1580 N84-20353
Experimental studies on plasma confinement in Nagoya bumpy torus
[IPPJ-655] 10 p1580 N84-20355
Transport of a multiple-ion species plasma in the collisionless regime in a bumpy torus
[IPPJ-657] 11 p1734 N84-21307
Heavy ion beam probe for the study of plasma confinement in Nagoya bumpy torus
[IPPJ-669] 15 p2409 N84-25462
Research support for plasma diagnostics on Elmo Bumpy Torus - development of a multichannel Hall-probe based diamagnetic diagnostic instrument and observation and modeling of EBT electron rings
[DE84-008810] 18 p2933 N84-28600
A Bumpy Torus betatron
[AD-A141840] 19 p3107 N84-29742
Theoretical studies of Elmo Bumpy Torus (EBT)
[DE84-010814] 20 p3303 N84-30978
The EBT-S 28-GHz, 200-kW, CW, mixed-mode, quasi-optical plasma heating system
[DE84-014415] 23 p3829 N84-34287

BUNCHING
NT ELECTRON BUNCHING
Intense antiproton source for a 20 TeV collider
[DE83-012878] 01 p0142 N84-10934
Subharmonic buncher for the Los Alamos free-electron laser oscillator experiment
[DE83-015220] 03 p0380 N84-12474
Power-amplification of a heavy-ion beam in an induction linac
[DE84-002911] 08 p1231 N84-18042
Generation of intense coherent soft X-ray with electron microbunches induced and frozen by lasers
[DE84-005361] 10 p1501 N84-19811

BUNDLES
Acoustic resonance in heat-exchanger tube banks
[DE83-011413] 02 p0219 N84-11436
Recursion formulas and limit theorems for the lifetime distribution of a model fibrous composite 11 p1626 N84-20645
Several aspects of the sequential processing of photogrammetric bundle blocks 16 p2505 N84-26077
Fiber optic bundle towed array
[AD-D011034] 19 p3105 N84-29724

BUOYANCY
Flow-through boundary conditions for time-dependent, buoyancy-influenced flow simulations using low order finite elements
[DE83-010256] 02 p0218 N84-11430
Multiple steady states of buoyancy induced flow in cold water and their stability 04 p0530 N84-13487
Modelling of submerged cable dynamics
[AD-A132495] 04 p0544 N84-13580
Transport and diffusion of buoyant material
[AD-A132613] 05 p0708 N84-14642

Case studies on convective storms, case study 1, 13 July 1978: First echo case
[PB84-147479] 12 p1862 N84-22134
Experimental mixed convection heat transfer from a large, vertical surface in a horizontal flow
[HMT-36] 14 p2146 N84-23864
Heat flow, fluid flow and solidification phenomena in weld pools 15 p2306 N84-24835
Multiple buoyancy driven flows in a vertical cylinder heated from below
[NASA-CR-173826] 17 p2666 N84-27001
Thermally induced instabilities of two-layer fluid systems 22 p3592 N84-32745

BUOYS
Long term upper ocean study (LOTUS) at 34 deg N, 70 deg W: Meteorological sensors, data and heat fluxes for May-October 1982 (LOTUS-3 and LOTUS-4)
[AD-A133883] 05 p0711 N84-14659
Movement of satellite-tracked buoys in the Beaufort sea (1979-1981)
[AD-A133159] 07 p1041 N84-16748
The Grand Banks experiment: A satellite/aircraft/ship experiment to explore the ability of specialized radars to define ocean fronts
[AD-A136181] 09 p1304 N84-18522
Aids to navigation radar 1 principal findings: Performance in limited visibility of short range aids with passive reflectors
[AD-A137596] 11 p1604 N84-20507
The eddy field of the Central North Atlantic
[AD-P002664] 11 p1691 N84-21029
The variability of the surface wind field in the equatorial Pacific Ocean: Criteria for satellite measurements 17 p2717 N84-27296
Test and evaluation of the Satellite-Aided Maritime Search and Rescue System (SAMSARS). Volume 1: System description and test results
[PB84-184621] 22 p3540 N84-32412
Test and evaluation of the Satellite-Aided Maritime Search and Rescue System (SAMSARS). Volume 2: Hardware circuitry and software programs
[PB84-184639] 22 p3540 N84-32413

BURGER EQUATION
Adaptive grid generation for numerical solution of partial differential equations
[AD-A136985] 10 p1570 N84-20289
An explicit predictor-corrector solver with applications to Burgers' equation
[NASA-TM-84402] 14 p2211 N84-24276
The well-posedness of the Kuramoto-Sivashinsky equation
[NASA-CR-172431] 22 p3637 N84-33053

BURNERS
Micronized coal burner facility
[NASA-CASE-LEW-13426-1] 07 p0969 N84-16276
A critical review of noise production models for turbulent, gas-fueled burners
[NASA-CR-3803] 16 p2554 N84-26384
An investigation of experimental techniques for obtaining particulate behavior in metallized solid propellant combustion
[AD-A141044] 18 p2808 N84-27826
The structure of evaporating and combusting sprays: Measurements and predictions
[NASA-CR-173778] 19 p3021 N84-29155

BURNING
U COMBUSTION

BURNING PROCESS
U COMBUSTION

BURNING RATE
Transient combustion: Models versus ONERA data
[AD-A131151] 02 p0203 N84-11323
Correlation of laboratory-scale fire test methods for seat blocking layer materials with large-scale test results
[AD-A131666] 03 p0328 N84-12138
Combustion modeling of composite solid propellants 03 p0351 N84-12285
A comment on the plateau combustion mechanism of the double-base propellants
[AD-A132551] 04 p0509 N84-13333
Recent US progress in fire growth modeling 04 p0511 N84-13354
Fire modeling research at Factory Mutual 04 p0513 N84-13370
Behavior of aluminum on the burning surface of a solid propellant 05 p0662 N84-14351
Combustion at the interface of an oxidizer-fuel slab system 06 p0800 N84-15215
Transport algorithms for methane flames
[AD-A133213] 06 p0801 N84-15221
Catalysis of nitramine propellants by mmtal borohydrides
[AD-A133215] 06 p0812 N84-15285
Dry chemical development: A model for the extinction of hydrocarbon flames
[AD-A137952] 11 p1628 N84-20656
An optical surface tracking device which determines a solid propellant's burning rate 13 p1944 N84-22638
Insitu measurement of burning rate 13 p1944 N84-22639
Measurement of solid propellant burning rates employing microwave techniques 13 p1944 N84-22640
Dependence of burning rate of AP-polymer sandwiches on thickness of the binder laminae 13 p1946 N84-22653
Effect of fabrication techniques on consolidated charge burning 13 p1948 N84-22668
Modeling effects of composition on the burn rates of nitrate ester-based energetic binders 13 p1951 N84-22685
Nitramine propellant crack tip ignition and crack propagation of a burning sample under rapid pressurization
[AD-A141246] 18 p2811 N84-27848
Wall quench and flammability limit effects on exhaust hydrocarbon emission
[DE84-009754] 21 p3359 N84-31307

BURNOUT
Acoustic and photoelectric burnout detection of T-burner grains 13 p1946 N84-22650
Latchup window tests
[AD-A138680] 13 p1986 N84-22694

BURNTHROUGH (FAILURE)
A laboratory test for evaluating the fire containment characteristics of aircraft class D cargo compartment lining material
[DOT/FAA/CT-83/44] 01 p0006 N84-10035

BURSTS
NT GAMMA RAY BURSTS
NT RADIO BURSTS
NT SOLAR RADIO BURSTS
A study of coherent structures in the near-neutral marine atmospheric boundary layer 03 p0406 N84-12658
A model for chorus associated electrostatic bursts
[NASA-CR-174489] 03 p0432 N84-12832
The bursting phenomenon in bounded shear flows 06 p0837 N84-15454
The use of burst transmission to increase communication range: A feasibility study
[PB84-111400] 08 p1147 N84-17467
On the estimation of spectral parameters using burst waveforms
[AD-A137932] 11 p1644 N84-20748
Central burst of simultaneously rotating and gravitating body 13 p1969 N84-22783
The study of the physics of cometary nuclei
[NASA-CR-173519] 13 p2091 N84-23543
Energetic electrons in impulsive solar flares
[NASA-TM-86102] 14 p2251 N84-24519
High energy transients
[NASA-CR-173944] 23 p3838 N84-34347
A new class of solar burst with MM-wave emission but only at the highest frequency (90 GHz)
[NASA-TM-87369] 24 p3992 N84-35264

BUS CONDUCTORS
Three-phase, high-voltage, high-frequency distributed bus system for advanced aircraft 01 p0010 N84-10058
General Purpose Electronic Test Equipment (GPETE) acquisition considerations for automated calibration
[AD-A133865] 05 p0718 N84-14709
Techniques for interbus communication in a multibus avionic system 06 p0771 N84-15050
A video bus for weapon system integration 06 p0771 N84-15051
A modular twin bus microprocessor system for laboratory automation
[AD-A133372] 06 p0896 N84-15815
Bus interconnection in multiprocessor environment: The communication principle end the arbitration techniques
[ENST-E-83010] 10 p1482 N84-19689
General Purpose Bus Interface Unit (GPBIU) system test software design
[AD-A138005] 12 p1770 N84-21543
Microbus
[AD-A132338] 18 p2833 N84-27984
A programmable bus control interface
[AD-P003536] 21 p3332 N84-31140
Single chip MIL-STD-1553B bus interface unit keeps pace with chip sets
[AD-P003537] 21 p3332 N84-31141
Application of 1553B to MRASM (Medium Range Air to Surface Missile): A systems look
[AD-P003540] 21 p3332 N84-31144
MIL-STD-1553B in MRASM (Medium Range Air to Surface Missile): The designer's challenge
[AD-P003541] 21 p3333 N84-31145

BUSHINGS
Process development of making bearings and bushings from continuous-cast SAE 660 bronze alloy plate
[DE83-014234] 01 p0057 N84-10374
Improving the fatigue performance of thick aluminum alloy bolted joints by hole cold-expansion and the use of interference-fit steel bushes
[ARL-STRUC-NOTE-486] 04 p0543 N84-13578
Distribution of unit pressures in universal spindle joint 08 p1165 N84-17588
Investigation of the dynamic properties of an elastomer bush
[BU-283] 15 p2255 N84-24543
Evaluation of two polyimides and of an improved liner retention design for self-lubricating bushings
[NASA-TM-83719] 18 p2817 N84-27887

BUSINESS MANAGEMENT
U INDUSTRIAL MANAGEMENT

BUTADIENE
Diffusion and sorption of cyclohexane vapor in SBS and SBR copolymers
[AD-A132397] 04 p0506 N84-13315
Modeling the mechanical behavior of elastomeric styrene-butadiene-styrene block copolymers 11 p1635 N84-20693

BUTANES
Thermal and hydraulic performance of a sieve-tray direct-contact heat exchanger
[DE84-000663] 04 p0537 N84-13531
Correlations between surface structure and catalytic reactivity for alkane hydrogenolysis over nickel
[DE84-002610] 07 p0971 N84-16292
A comprehensive chemical kinetic reaction mechanism for the oxidation of n-butane
[DE84-005739] 22 p3549 N84-32467

BUTENES
Theoretical and experimental studies of shock-compressed benzene and polybutene
[DE83-015864] 03 p0430 N84-12816
Oligomerization and butenolysis of olefins by metathesis: Contributions to a chemical use of industrial C4-olefins — catalysts
[BMFT-FB-T-83-184] 10 p1457 N84-19518

BUTT JOINTS
Welding deformations and residual stresses due to circumferential welding of cylindrical shells and hemispherical end plates
[DRIC-T-6968] 04 p0547 N84-13602
Corrosion research in support of Canadian forces aircraft 16 p2435 N84-25622

BUTTERFLY VALVES
NT DAMPERS (VALVES)

BUTTES
East Butte: A volcanic dome of the Eastern Snake River Plain, Idaho 13 p2079 N84-23475

BUTYLENE
U BUTENES

BUTYLENE OXIDES
U TETRAHYDROFURAN

BY-PRODUCTS
Negative ion formation in SF6 spark by-products
[DE84-012340] 20 p3181 N84-30212

BYPASS RATIO
HYTESS: A hypothetical turbofan engine simplified simulation
[NASA-TM-83561] 07 p0954 N84-16184

BYPASSES
Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] 13 p2019 N84-23095
Design and selection of bypass diodes 22 p3582 N84-32688

C

C BAND
Operational applications of military test ranges in space transportation system programs
[AD-A132535] 04 p0490 N84-13217
Pacific barrier radar 3 (PACBAR 3)
[AD-A133790] 05 p0668 N84-14392
A user's manual for the NASA/JPL synthetic aperture radar and the NASA/JPL L and C band scatterometers
[NASA-CR-173209] 07 p0992 N84-16428
Cylindrical microstrip array: C-band beacon antenna array with 48 rectangular radiating elements fed in-phase
[AD-A135144] 08 p1144 N84-17442
Range safety transponder catalog
[AD-A140095] 15 p2270 N84-24631
Coherent polarimetric C-band radar for atmospheric research 23 p3776 N84-33937

C-5 AIRCRAFT
The measurement of C-5A aircrew performance
[AD-P003268] 18 p2907 N84-28433
A SLAM (Simulation Language for Alternative Modeling) airfield model for airlift operations
[AD-A141106] 19 p2960 N84-28762

C-9 AIRCRAFT
Ozone survey of C-9A
[AD-A130632] 01 p0009 N84-10052
C-15 AIRCRAFT
YC-15 EBF (Externally-Blown Flap) STOL (Short Takeoff and Landing) airplane fuselage and interior noise environment
[AD-A131462] 02 p0178 N84-11164
C-130 AIRCRAFT
Data acquisition for evaluation of an airborne lightning detection system
[AD-A135318] 08 p1100 N84-17153
Electroluminescent formation lights for HC-130 P/N special operations. 1: Flight test candidates
[AD-A137662] 11 p1606 N84-20516
A SLAM (Simulation Language for Alternative Modeling) airfield model for airlift operations
[AD-A141106] 19 p2960 N84-28762
C-135 AIRCRAFT
Multiple input - multiple output flight control design with highly uncertain parameters; application to the C-135 aircraft
[AD-A138011] 12 p1772 N84-21554
KC-135 Winglet Program Review
[NASA-CP-2211] 18 p2787 N84-27686
KC-135 winglet program overview 18 p2787 N84-27687
KC-135 wing and winglet flight pressure distributions, loads, and wing deflection results with some wind tunnel comparisons 18 p2787 N84-27688
In-flight lift and drag measurements on a first generation jet transport equipped with winglets 18 p2787 N84-27689
Measurements of the fuel mileage of a KC-135 aircraft with and without winglets 18 p2787 N84-27690
Comparison of flight measured, predicted and wind tunnel measured winglet characteristics on a KC-135 aircraft 18 p2787 N84-27691
KC-135A winglet flight flutter program 18 p2788 N84-27692
Digital multivariable tracker control laws for the KC-135A
[AD-A141118] 19 p2964 N84-28786
Development of the sonic pump levitation
[NASA-CR-161963] 22 p3592 N84-32749
C-140 AIRCRAFT
Acoustic flight testing of advanced design propellers on a JetStar aircraft 18 p2783 N84-27661
C-141 AIRCRAFT
Extending the lifetime of operational systems through corrosion tracking and prediction
[AD-A133931] 05 p0625 N84-14112
Proceedings of the Workshop on Multivariable Control Systems
[AD-A139050] 15 p2253 N84-24529
Digital multivariable tracker control laws for the C-141-A Starlifter aircraft
[AFIT/GE/EE/82D-47] 15 p2254 N84-24533
A SLAM (Simulation Language for Alternative Modeling) airfield model for airlift operations
[AD-A141106] 19 p2960 N84-28762
CABIN ATMOSPHERES
NT SPACECRAFT CABIN ATMOSPHERES
Thermal constraints in a helicopter during long duration flights under extreme climatic conditions 11 p1698 N84-21078
Simultaneous cabin and ambient ozone measurements on two Boeing 747 airplanes. Volume 2: January to October 1978
[NASA-TM-81733] 12 p1917 N84-22488
Cabin air quality
[GPO-29-522] 20 p3263 N84-30702
System for the removal of airborne contaminants from aircraft environmental control systems
[AD-D011172] 23 p3727 N84-33615
Application of compartmentalization/air lock of simulated pressurized aircraft and tolerance of lung to rapid decompression in different laboratory animals 24 p3957 N84-35053
CABLES
Transient gas flow along single or bundled electrical cables surrounded by a permeable medium
[DE84-004791] 10 p1494 N84-19772
Pretreatment of Kapton-coated cable for epoxy adhesion
[DE84-006265] 11 p1661 N84-20837
Foamable PVDF fluoroplastic for wire and cable applications 11 p1722 N84-21230
Development of composite fiber-optic electric-power umbilical cable and optical feedthrough for deep ocean mining 11 p1722 N84-21231
Buckling of optical fibers within elastomers used in an embedded-core cable structure 11 p1722 N84-21233
Design aspects of loose buffer tube fiber optics cable 11 p1722 N84-21234
Non-metallic optical cable with optical fiber catenary for long span aerial application 11 p1722 N84-21235
New silicon rubber cable insulation promises circuit integrity, in flaming environment 11 p1723 N84-21237
A polytetrafluorethylene insulated cable for high temperature oxygen aerospace applications 11 p1723 N84-21238
Development of flame retardant, low aggressivity cables 11 p1723 N84-21239
Versatile fire barrier systems for telephone cable 11 p1723 N84-21241
Measurement of the characteristic impedance of balanced twisted pairs using scattering parameters 11 p1725 N84-21250
Standard for fire protection of DOE electronic computer/data processing systems
[DE84-007194] 14 p2135 N84-23793
NC-controlled machine with a cable
[MBB-UT-21-83-O] 16 p2564 N84-26450
Finite element thermal-structural analysis of cable-stiffened space structues
[NASA-CR-173709] 18 p2852 N84-28108
CABLES (ROPES)
The OTEC (Ocean Thermal Energy Conversion) mooring technology
[PB83-221166] 01 p0060 N84-10396
Correlation of superconductor strand, cable, and dipole critical currents in CBA magnets
[DE83-003951] 02 p0214 N84-11400
Current researches on fire retardant materials in Japan 04 p0510 N84-13342
Modelling of submerged cable dynamics
[AD-A132495] 04 p0544 N84-13580
User's manual for CABLE: A three-dimensional, finite-segment computer code for submerged and partially submerged cable systems
[AD-A132515] 04 p0579 N84-13821
Aeroelastic stability analysis of the light weight tank LH-2 cable tray
[LMSC/D059511] 05 p0692 N84-14543
Field expedient repair of fiber optic cables
[AD-A134276] 07 p0985 N84-16382
Quality and reliability of steel wire ropes
[BLL-M-35461-(5828.4)] 12 p1821 N84-21872
Linear dynamics of cables and chains 13 p2000 N84-22978
Frictional hold of various sheave configurations on synthetic ropes
[AD-A139808] 15 p2343 N84-25067
Nature of formation of stopper defect in hoisting ropes
[BLL-M-35544-(5828.4)] 17 p2674 N84-27036
Stress analysis of wire hoist rope
[PB84-172618] 17 p2681 N84-27075
Electromagnetic inspection of wire ropes using sensor arrays
[AD-A141164] 18 p2851 N84-28100
Study of latent heat storage system used heat pipes for cooling of underground cables 20 p3170 N84-30127
Electromagnetic inspection of wire ropes using sensor arrays
[AD-A142012] 20 p3199 N84-30321
CAD (DESIGN)
U COMPUTER AIDED DESIGN
CADASTRAL MAPPING
Automation in digitizing large scale maps 07 p1019 N84-16608
A program system for computer assisted acquisition and analysis of classification maps in land association 07 p1019 N84-16611
Use of the interactive graphical system SICAD for computer assisted land evaluation and redistribution in land consolidation 07 p1019 N84-16612
The automated cadastral plan, a source for the topographic country map works 20 p3227 N84-30508
CADMIUM
Properties of mercury-cadmium-telluride solid solutions
[AD-A130224] 01 p0156 N84-11025
Battery transport data
[DE84-001640] 04 p0526 N84-13462
Cadmium plating versus other coatings to prevent corrosion
[AD-A142504] 20 p3153 N84-30022
CADMIUM ALLOYS
Theory of the electronic properties of mercury-cadmium-telluride alloys
[AD-A143426] 22 p3663 N84-33221
CADMIUM COMPOUNDS
NT CADMIUM FLUORIDES
NT CADMIUM SELENIDES
NT CADMIUM SULFIDES
NT CADMIUM TELLURIDES
Homogeneity and magnetic susceptibility in some substituted cadmium spinels
[AD-A135297] 08 p1131 N84-17357
New materials for infrared transmitting electrooptic filters
[AD-A139272] 14 p2224 N84-24349
Investigation of the role of sintering in gas-solid interactions
[DE84-010862] 20 p3163 N84-30089
HgCdTe surface and defect study program
[AD-A142342] 20 p3308 N84-31010
CADMIUM FLUORIDES
Association and bound motion in alkali metal doped cadmium fluoride
[AD-A143200] 22 p3546 N84-32450
CADMIUM MERCURY TELLURIDES
U MERCURY CADMIUM TELLURIDES
CADMIUM NICKEL BATTERIES
U NICKEL CADMIUM BATTERIES
CADMIUM SELENIDES
Polarization effects in the luminescence of cadmium selenide electrodes
[AD-A133951] 05 p0647 N84-14253
Optically induced changes in the Faraday rotation spectra of the ferromagnetic semiconductor CdCr/sub 2/Se/sub 4 14 p2233 N84-24398
Spray pyrolysis of cadmium sulfide/copper indium selenide cells
[DE84-004491] 20 p3235 N84-30537
CADMIUM SULFIDES
Design analysis of advanced photovoltaic technologies
[DE84-000008] 04 p0557 N84-13675
Pressure quenched excitonic solids
[AD-A133817] 05 p0753 N84-14940
Excitonic solids
[AD-A135972] 09 p1396 N84-19115
High resolution study of the relationship between misfit accommodation and growth of Cu sub 2-x in CdS
[DE84-004636] 11 p1673 N84-20920
Characterization of single crystal Cu/sub 2S/CdS heterojunctions by hing resolution electron microscopy
[DE84-006761] 13 p2048 N84-23287
Solar cell characterization by photocapacitance
[DE84-008215] 14 p2143 N84-23849
Optical bistability and hysteresis under phase conjugation in CdS crystal 14 p2240 N84-24450
Low power optical bistability near bound excitons in cadmium sulfide 14 p2241 N84-24451
Technical use of solar energy. Part 1. Thin films solar cells
[BMFT-FB-T-83-298-PT-1] 15 p2362 N84-25172
CdS/CuInSe2 heterojunction cell research
[DE84-004508] 22 p3618 N84-32926
CADMIUM TELLURIDES
Large plate CdTe synthesis by sealed vessel transport
[AD-A130947] 01 p0153 N84-11005
Thermal property measurement techniques and some results for CdTe
[AD-A133899] 05 p0753 N84-14936
Progress in polycrystalline thin-film solar cells
[DE83-012131] 06 p0875 N84-15691
Replicated CdTe substrates
[AD-A133114] 06 p0922 N84-15994
Large plate CdTe synthesis by sealed vessel transport
[AD-A134588] 07 p1081 N84-17027
Research and crystal growth on high dielectric constant materials for mm wave applications
[AD-A136281] 09 p1394 N84-19102
Growth of HgCdTe by modified molecular beam epitaxy
[AD-A137243] 10 p1588 N84-20407
Growth of cadmium telluride by pulling under liquid encapsulation
[AD-A136842] 10 p1589 N84-20412
X-ray photoelectron and Auger electron spectroscopic study of the CdTe surface resulting from various surface pretreatments: Correlations of photoelectrochemical and capacitance-potential behavior with surface chemical composition
[AD-A138601] 13 p1956 N84-22714
Thermal property measurement techniques and some results for CdTe and (Hg,Cd)Te alloys
[AD-A139375] 14 p2242 N84-24462
Investigation of the MBE growth of InSb and novel quantum well structures
[AD-A144151] 24 p3967 N84-35117
CAI
U COMPUTER ASSISTED INSTRUCTION
CALCINATION
U ROASTING
CALCITE
Stress-wave experiments on selected crustal rocks and minerals
[DE84-001613] 04 p0563 N84-13714

Electron paramagnetic resonance (EPR) study of calcite (CaCO3) containing both Mn-2+ and Pb-2+ cations
15 p2401 N84-25413
Effect of iron on the electron paramagnetic resonance (EPR) spectra of Mn-2+ ions in polycrystalline calcite
15 p2402 N84-25414
Diagensis and deformation of the Madison Group, Colorado and Utah overthrust belt
22 p3620 N84-32938

CALCIUM
NT CALCIUM ISOTOPES
The Regulatory Functions of Calcium and the Potential Role of Calcium in Mediating Gravitational Responses in Cells and Tissues
[NASA-CP-2286] 02 p0262 N84-11720
Evidence for a regulatory role of calcium in gravitropism 02 p0262 N84-11721
Calcium and mitosis 02 p0262 N84-11722
Calcium modulation of plant plasma membrane-bound ATPase activities 02 p0263 N84-11723
Intracellular calcium receptors: Calmodulin and related proteins 02 p0263 N84-11724
Role of calcium and calmodulin in plant cell regulation 02 p0263 N84-11725
Local calcium entry and the guidance of growth 02 p0263 N84-11726
Bone and calcium alterations during spaceflight 02 p0263 N84-11729
Gravitational study of the central nervous system 02 p0263 N84-11730
Carboxylic acid ionophores as probes of the role of calcium in biological systems 02 p0264 N84-11735
Measurement and control of free calcium inside small intact cells 02 p0264 N84-11736
X-ray fluorescence analysis for barium, zinc, calcium and phosphorus in oil additives
[MRL-TN-475] 05 p0646 N84-14249
Bone blood flow measured by (41)Ar clearance formed by (44)Ca(n,(-)) (41)Ar
[DE83-017600] 06 p0886 N84-15761
Inhibition of gravitropism in oat coleoptiles by calcium chelation 09 p1352 N84-18831
Calcium elicited asymmetric auxin transport in gravity influenced root segments 09 p1352 N84-18835
Mechanism of shoot gravitropism 09 p1352 N84-18836
Investigation of silicon materials for solar cells. Part 1: Segregation and gettering properties of certain contaminations. Part 2: Measurement of electrical parameters
[BMFT-FB-T-83-204] 10 p1531 N84-20026
A laboratory manual for the determination of metals in water and wastewater by atomic absorption spectrophotometry
[CSIR-TECH-GUIDE-K63] 11 p1628 N84-20653
Research opportunities in bone demineralization, phase 3 11 p1693 N84-21046
A critical assessment of thermodynamic data for the Ca-Mg system
[NPL-DMA(A)-73] 15 p2415 N84-25500
Synthesis of refractory materials
[DE84-011045] 20 p3156 N84-30041
Ultrasound distribution and bone calcium content in experimental animals submitted to hypokinesia and weightlessness 20 p3254 N84-30652
Urban and local source effects on precipitation chemistry
[DE84-011848] 21 p3436 N84-31803
Chromium-magnesium stainless steels, resistant to stress corrosion cracking in magnesium and calcium chloride solutions
[BLL-RISLEY-TRANS-4571-(9091.9)] 22 p3550 N84-32477
Animal models of disuse osteoporosis 23 p3809 N84-34153

CALCIUM CARBONATES
NT CALCITE

CALCIUM CHLORIDES
Calcium-thionyl chloride battery technology
[AD-A133570] 06 p0830 N84-15401
Salton Sea Geothermal Field, California, as a near-field natural analog of a radioactive waste repository in salt
[DE84-003851] 09 p1346 N84-18794
The vapor pressure of Salt-HCl-Water solutions below 0 C
[AD-A141184] 18 p2811 N84-27845

CALCIUM COMPOUNDS
NT CALCITE
NT CALCIUM CHLORIDES
NT CALCIUM FLUORIDES
NT CALCIUM OXIDES
NT FLUORITE
NT FLUORSPAR
NT PEROVSKITES
Complex impedance of Ca/CaCrO4/Fe thermal batteries
[DE84-005507] 11 p1647 N84-20771
AC conductivity of polycrystalline Ca-Alpha-double prime-alumina
[DE84-005529] 11 p1745 N84-21386

CALCIUM FLUORIDES
NT FLUORSPAR
Electric-dipole moment of CaF by molecular-beam, laser-RF, double-resonance study of Stark splittings
[DE84-005413] 15 p2405 N84-25439

CALCIUM ISOTOPES
Pion elastic and inelastic scattering from (40) (42) (44) (48)Ca and (54)Fe
[DE84-009080] 20 p3296 N84-30927

CALCIUM METABOLISM
Bone and calcium alterations during spaceflight 02 p0263 N84-11729
The plasma membrane calcium pump 02 p0264 N84-11734
Summary of study group session discussions 02 p0264 N84-11739
Biochemical and histochemical adaptations of skeletal muscle to rat suspension 09 p1354 N84-18849
A study of stress-free living bone and its application to space flight
[NASA-CR-171786] 16 p2535 N84-26275

CALCIUM OXIDES
Low temperature sintering of Al2O-CaO
[DE84-010713] 20 p3163 N84-30083

CALCIUM 45
U CALCIUM ISOTOPES

CALCULATION
U COMPUTATION

CALCULATORS
Mathematical model of electrostatic precipitation for the Texas Instruments Programmable 59 calculator
[PB83-261669] 04 p0560 N84-13695
Design and implementation of a BASIC cross-compiler and virtual memory management system for the TI-59 programmable calculator
[AD-A132172] 04 p0577 N84-13808
Random number generators for a pocket calculator
[MC-SW-93/83] 07 p1064 N84-16904
Computer program for preliminary helicopter design
[AD-A136026] 09 p1256 N84-18197
HP-41C programs and instructions for probability and statistics
[AD-A140573] 17 p2752 N84-27468
EMG 7177 programmable graphic calculator, control system 18 p2827 N84-27948
Random numbers from small calculators
[AD-P003850] 24 p3940 N84-34937

CALCULI
Apparatus for disintegrating kidney stones
[NASA-CASE-GSC-12652-1] 24 p3936 N84-34913

CALCULUS
NT ASYMPTOTIC SERIES
NT COLLINEARITY
NT CONTINUITY (MATHEMATICS)
NT COPLANARITY
NT COSINE SERIES
NT DIFFERENTIAL CALCULUS
NT FOURIER SERIES
NT LIMITS (MATHEMATICS)
NT PADE APPROXIMATION
NT POWER SERIES
NT SERIES (MATHEMATICS)
NT TAYLOR SERIES
NT VECTOR ANALYSIS
NT VORTICITY
Exponential calculus of microdifferential operators of infinite order, part 1 13 p2033 N84-23181

CALCULUS OF VARIATIONS
On the superlinear Ambrosetti-Prodi problem
[AD-A130574] 01 p0130 N84-10849
Variational method for the three-dimensional inverse-equilibrium problem in toroids: Part 2
[DE83-012925] 01 p0149 N84-10981
Variational-moment method for computing magnetohydrodynamic equilibria
[DE83-017477] 03 p0450 N84-12957
Variational method for adaptive grid generation
[DE83-017312] 04 p0583 N84-13850
The MHD stability of inertia-tied Z-pinches with application to solar coronal loops 04 p0596 N84-13932
Variational methods in elasticity theory 07 p1030 N84-16681
La Recherche Aerospatiale, bimonthly bulletin number 1983-2, 213/March-April
[ESA-TT-817] 08 p1226 N84-18013
Applications of natural constraints in critical point theory to periodic solutions of natural Hamiltonian systems
[AD-A136348] 09 p1373 N84-18968
Transversely anisotropic optical fiber: Variational analysis of a nonstandard eigen problem
[REPT-S-133] 09 p1390 N84-19080
A variational method for calculating the natural frequencies and mode shapes of a cantilevered open cylindrical shell
[AD-A136901] 10 p1517 N84-19932
On small period, large amplitude normal modes of natural Hamiltonian systems
[AD-A139314] 14 p2213 N84-24294
Method for solving variation problems of plasticity theory — metal working
[BLL-M-35555-(5828.4)] 17 p2676 N84-27047
A few necessary considerations for the use of the finite element methods by non-specialists
[INPE-3238-PRE/586] 24 p3949 N84-35005

CALDERAS
Volcanic forms in the Kane Patera region, Io 13 p2073 N84-23437
Classification of volcanoes of the Kane Patera Quadrangle of Io: Proportions of lava flows and pyroclastic flows 13 p2080 N84-23477
Calderas in the solar system 13 p2081 N84-23485

CALENDARS
NT CROP CALENDARS
Calendar of selected aeronautical and space meetings
[AGARD-CAL-83/2] 11 p1761 N84-21490

CALIBRATING
NT WIND TUNNEL CALIBRATION
Rotating-boom facility for evaluation of wind characteristics approaching a wind-turbine blade
[DE83-013117] 01 p0017 N84-10107
Portable dynamic pressure generator for static and dynamic calibration of in situ pressure transducers
[NASA-TM-85687] 01 p0083 N84-10538
Assessment of ultrasonic reference block calibration methodology
[PB83-225870] 01 p0086 N84-10558
Journal of Research of the National Bureau of Standards, volume 88, number 1, January - February 1983
[PB83-226704] 01 p0160 N84-11055
A technique for dynamically calibrating pressure transducers at cryogenic temperatures
[NASA-TM-85695] 02 p0222 N84-11458
Investigation of radiometric properties of the LANDSAT-4 multispectral scanner
[E84-10013] 02 p0236 N84-11551
Preliminary data processing plan for the thermal plasma experiment on the HILAT satellite
[AD-A132017] 03 p0340 N84-12209
Technique for producing a coherent sum of the data from P78-1, F2, and F4 satellites
[AD-A131965] 03 p0340 N84-12210
Determination of the uncertainty of experimental heat-flux calibrations
[AD-A131918] 03 p0376 N84-12450
Development of a unique Physical Metrology Laboratory Recall System
[DE83-017415] 03 p0423 N84-12767
A study of the charged particle calibration requirements for the Deep Space Network 04 p0519 N84-13414
Aethalometer: An instrument for the real-time measurement of optical absorption by aerosol particles
[DE84-000400] 04 p0538 N84-13538
Coordinate-measuring machine capability
[DE84-002014] 04 p0539 N84-13544
Description of a method and artifact for estimating volumetric uncertainty of coordinate measuring machines
[DE84-002017] 04 p0539 N84-13545
In-flight absolute radiometric calibration of the thematic mapper
[E84-10044] 04 p0552 N84-13637
Spectroradiometric calibration of the thematic mapper and multispectral scanner system
[E84-10045] 04 p0552 N84-13638
Parametric model for peak flow prediction in ungaged ephemeral watersheds
[PB83-249698] 04 p0555 N84-13658
Calibration of laboratory bioassays with results from microcosms and ponds
[DE83-017224] 04 p0560 N84-13692
Telescope calibration for gamma spectroscopy with a new Ge(Li) diode configuration
[INPE-2885-PRE/407] 04 p0619 N84-14083
Value of flow calibration for decision making in infiltration/inflow studies
[PB83-259739] 05 p0682 N84-14483
Description of a calibrator for piezoelectric pressure transducers
[FOA-C-20496-D4] 05 p0686 N84-14507
Design and initial operational characteristics of a shock tube-Raman scattering calibration system
[AD-A133251] 06 p0847 N84-15525

Study of the onboard calibration equipment of the HRV camera — SPOT satellite
[ESA-TT-794] 06 p0848 N84-15529
Calibration of air-data systems and flow direction sensors. AGARD Flight Test Techniques Series, volume 1
[AGARD-AG-300-VOL-1] 06 p0848 N84-15530
In-flight absolute radiometric calibration of the thematic mapper
[E84-10064] 06 p0865 N84-15633
Laboratory robotics at the Savannah River Laboratory
[DE84-001760] 06 p0894 N84-15810
Preliminary designs for modifications to the X-ray source and beam monitor of the Marshall Space Flight Center's X-ray Calibration Facility 06 p0926 N84-16032
Simulator scene display evaluation
[NASA-CASE-ARC-11504-1] 07 p0960 N84-16221
SAR calibration: A technology review
07 p0986 N84-16399
Effect of nonideal square-law detection on static calibration in noise-injection radiometers
[NASA-TM-85684] 07 p0997 N84-16462
Advanced high temperature heat flux sensors
[NASA-TM-83526] 07 p1001 N84-16493
Radiac calibrators
[AD-A134611] 07 p1006 N84-16535
Log N-log S in inconclusive
[NASA-CR-173153] 07 p1093 N84-17111
Look at techniques for the dimensional calibration of standard microscopic particles
[PB84-112648] 08 p1125 N84-17324
Development of power system measurements
[PB84-109891] 08 p1153 N84-17509
A detailed evaluation of the Endevco model 7302 (trade name) angular accelerometer
[AD-A134682] 08 p1162 N84-17562
AC voltage calibrations for the 0.1 Hz to 10 Hz frequency range
[PB84-109857] 08 p1163 N84-17570
Calibration measurements of Doppler receivers — satellite Doppler positioning 08 p1174 N84-17647
Torsional ultrasonic technique for reactor vessel liquid level measurement
[DE84-003357] 08 p1226 N84-18024
Effects of systematic errors on the mixing ratios of trace gases obtained from occulation spectra
[NASA-CR-175371] 08 p1231 N84-18046
Hot wire in low Reynolds number flow
08 p1237 N84-18087
Flow behavior in the Wright Brothers Facility
[WBWT-TR-1187] 08 p1237 N84-18088
Luminosity calibration of low redshift quasars
[NASA-CR-175372] 08 p1242 N84-18120
Some aspects of the compatibility between strain gauge readout equipment and multi-component wind tunnel balances
[ARL-AERO-NOTE-417] 09 p1317 N84-18606
A sine-wave grating controller for vision testing
[AD-A135871] 09 p1318 N84-18610
Internal calibration of astronomical photographs
09 p1411 N84-19230
Absolute magnitude calibration for red dwarf stars
09 p1411 N84-19231
Revised radiometric calibration technique for LANDSAT-4 Thematic Mapper data by the Canada Centre for Remote Sensing 10 p1522 N84-19967
Revised radiometric calibration technique for LANDSAT-4 Thematic Mapper data
10 p1522 N84-19968
Radiometric calibration and geocoded precision processing of LANDSAT-4 MSS products
10 p1523 N84-19975
Prospective use of a mobile radiation system to validate techniques of radiation estimations from satellite records
10 p1536 N84-20064
Calibration of meteorological measurements made by NOAA (National Oceanic and Atmospheric Administration) WP3D aircraft, 1983
[PB84-127463] 10 p1541 N84-20099
Absolute electroacoustic measurement of temperature oscillations in superfluid helium by the reciprocity method
[AD-A136851] 10 p1575 N84-20322
Extragalactic radio sources: Rapid variability at 90 GHz
[AD-A136533] 10 p1595 N84-20451
Fluorescence and electron energy loss cross sections in mercuric bromide
[AD-A137153] 11 p1629 N84-20657
Performance evaluation of sensors
[AD-P002675] 11 p1657 N84-20812
Temperature compensation and shunt calibration of semiconductor pressure transducers
[AD-P002686] 11 p1658 N84-20821
Calibration of vibration pickups at high frequencies
[AD-P002691] 11 p1659 N84-20826
Testing techniques involved with the development of high shock acceleration sensors
[AD-P002693] 11 p1660 N84-20828
Aircraft ground vibration test instrumentation system
[AD-P002694] 11 p1660 N84-20829
Calibration of engines laboratory air flow measuring devices
[AD-A137909] 11 p1660 N84-20831
Analysis of a time-of-flight neutron spectrometer
[DE84-006504] 11 p1661 N84-20836
Evaluation of instrument landing system DDM (Difference in Depth of Modulation) calibration accuracies
[AD-A138301] 12 p1768 N84-21533
Results of the 1983 NASA/JPL balloon flight solar cell calibration program
[NASA-CR-173465] 12 p1779 N84-21609
Study of advanced signal processing and calibration for IRES (infrared sensors)
[REPT-458-DT-5] 12 p1782 N84-21628
Standard reference material containing 2.5 percent austenite (SRM 488)
[PB84-143296] 12 p1799 N84-21735
A transportable cryostat
[NAL-TR-791] 12 p1818 N84-21850
Extended-range pendulous velocity gage
[DE83-012749] 12 p1819 N84-21856
Performance evaluation and geologic utility of LANDSAT-4 TM and MSS data
[E84-10099] 12 p1828 N84-21918
Civil turbofan propulsion system integration studies using powered testing techniques at ARA, Bedford
[ARA-MEMO-246] 13 p1931 N84-22561
Method and apparatus for precision control of radiometer
[NASA-CASE-NPO-15398-1] 13 p1992 N84-22931
An absolute calibration method for electron cyclotron emission spectrometers
[REPT-83-149] 13 p1994 N84-22941
Spectroradiometric calibration of the Thematic Mapper and multispectral scanner system
[E84-10098] 13 p2004 N84-23000
Sensor radiance for a midlatitude atmospheric model
13 p2004 N84-23001
In-flight absolute radiometric calibration of the Thematic Mapper — White Sands, New Mexico
13 p2004 N84-23002
Aeroacoustic noise measurements in wind tunnel
14 p2097 N84-23584
Aerodynamic forces on an airship hull in atmospheric turbulence
[UTIAS-277] 14 p2100 N84-23604
L-Division streak camera
[DE84-007780] 14 p2149 N84-23872
Theory of beam channel hydrodynamics
[AD-A139595] 14 p2229 N84-24365
V/STOL wind-tunnel testing
[NASA-TM-85936] 15 p2253 N84-24528
Advanced photovoltaic experiment (S0014)
15 p2274 N84-24657
The estimation and correction of refractive bending in the AR3-D tactical radar systems
15 p2325 N84-24958
Measurements of elongational viscometry using a fiber spinning technique. Part 1: Modifications to the Sangamo Schlumberger elongational viscometer model E4
[AD-A140002] 15 p2333 N84-25010
Spinning disk calibration method and apparatus for laser Doppler velocimeter
[NASA-CASE-ARC-11510-1] 15 p2335 N84-25015
The multistate reflectometer
[AD-A139318] 15 p2407 N84-25448
Oxide bond energies for the calibration of matrix effects in secondary ion mass spectrometry
[AD-A139633] 15 p2413 N84-25483
Some problems in calibrating UBV photometry for effective temperature and surface gravity
15 p2422 N84-25546
Application of semi-empirical Ge(Li) detector calibration technique for large volume samples
[DE83-012801] 16 p2434 N84-26004
New technique for calibrating hydrocarbon gas flowmeters
[NASA-TM-85792] 16 p2495 N84-26007
Spectroradiometric calibration of the Thematic Mapper and Multispectral Scanner system — White Sands, New Mexico
[E84-10136] 16 p2506 N84-26084
Measurement of residual strains and stresses in transparent materials
[AD-P003209] 17 p2593 N84-26622
Heat Capacity Mapping Radiometer (HCMR) data processing algorithm, calibration, and flight performance evaluation
[E84-10153] 17 p2709 N84-27248
Detection of severe weather by FAA radars
[FAA-RD-79-91] 17 p2733 N84-27372
Testing and control of a compliant wrist
[AD-A140842] 17 p2748 N84-27445
Multisensor calibration procedure for an all weather short range air defense system concept
[AD-A141337] 18 p2791 N84-27715
Regression analysis technique for air data sensor calibration with an inertial navigation system
[DFVLR-MITT-84-03] 18 p2791 N84-27716
Strain gage calibration
[NASA-CASE-LAR-12743-1] 18 p2839 N84-28019
Positive-feedback photometric drift in the PDS
18 p2840 N84-28025
Automatic shock calibration of accelerometers
[AD-A141005] 18 p2844 N84-28061
Practical measurement of rainfall rate by radar
18 p2886 N84-28318
Stores weight and inertia system update: Cable attachment redesign, flexible length parameter calibration, data sheet revision
[AD-A141087] 19 p2963 N84-28781
Mechanical interactions of rough surfaces
[DE84-008589] 20 p3198 N84-30311
LANDSAT-4 Science Investigations Summary, including December 1983 Workshop results, volume 1
[E84-10166] 20 p3205 N84-30359
Multispectral Scanner (MSS) instrument description
20 p3205 N84-30362
Radiometric calibration and processing procedure for reflective bands on LANDSAT-4 protoflight Thematic Mapper 20 p3206 N84-30366
Pre-launch absolute radiometric calibration of LANDSAT-4 protoflight Thematic Mapper
20 p3207 N84-30373
Relative radiometric calibration of LANDSAT TM reflective bands — San Francisco, California
20 p3207 N84-30374
Thermal band characterization of LANDSAT-4 Thematic Mapper — Buffalo, New York and water temperature in Lake Erie 20 p3207 N84-30376
Revised radiometric calibration technique for LANDSAT-4 Thematic Mapper data by the Canada Centre for Remote Sensing 20 p3208 N84-30378
LANDSAT-4 Thematic Mapper calibration and atmospheric correction 20 p3209 N84-30384
Calibration of TM data from ground-based measurements 20 p3209 N84-30385
MTF analysis of LANDSAT-4 Thematic Mapper
20 p3209 N84-30388
Intraband radiometric performance of the LANDSAT-4 Thematic Mapper 20 p3209 N84-30389
Radiometric calibration and geocoded precision processing of LANDSAT-4 Multispectral Scanner products by the Canada Centre for Remote Sensing
20 p3212 N84-30404
Preliminary geologic/spectral analysis of LANDSAT-4 Thematic Mapper data, Wind River/Bighorn basin area, Wyoming 20 p3213 N84-30413
Operation and calibration of the Wincharger 450 model SWECS
[DE84-009757] 20 p3237 N84-30546
Comparison of lightning flash rates from the PBE sensor and streak counting from the DMSP satellite
[DE84-006722] 20 p3246 N84-30602
Results of the first complete static calibration of the RSRA rotor-load-measurement system
[NASA-TP-2327] 21 p3328 N84-31111
Calibration of CT-4A fatigue test article, March 1983
[AD-A142880] 21 p3328 N84-31115
Development of long-length wire filament strain gages
[DE84-011543] 21 p3406 N84-31605
Thermocouple simulation: A calibration technique
[DE84-012408] 21 p3406 N84-31606
Radiometric calibration and processing procedure for reflective bands on LANDSAT-4 protoflight Thematic Mapper
[E84-10056] 21 p3426 N84-31731
LANDSAT 4 band 6 data evaluation
[E84-10175] 21 p3427 N84-31737
TM digital image products for applications — computer compatible tapes
[E84-10178] 21 p3428 N84-31749
Relative radiometric calibration of LANDSAT TM reflective bands
[E84-10179] 21 p3428 N84-31750
Prelaunch absolute radiometric calibration of the reflective bands on the LANDSAT-4 protoflight Thematic Mapper
[E84-10180] 21 p3428 N84-31751
Prelaunch absolute radiometric calibration of LANDSAT-4 protoflight Thematic Mapper
[E84-10181] 21 p3429 N84-31752
Characterization of radiometric calibration of LANDSAT-4 TM reflective bands
[E84-10182] 21 p3429 N84-31753

Air data position-error calibration using state reconstruction techniques
[NASA-TM-86029] 22 p3535 N84-32384
Rectangular heat source on a semi-infinite solid: An analysis of a thin film heat flux gage
[DE84-012234] 22 p3599 N84-32796
Development of color criteria for advanced displays
[AD-A143246] 22 p3630 N84-33006
Target for optically activated seekers and trackers
[AD-D011059] 22 p3655 N84-33171
NASA metrology information system: A NEMS subsystem 22 p3672 N84-33279
Langley's views on NEMS 22 p3672 N84-33280
Means and method for calibrating a photon detector utilizing electron-photon coincidence
[NASA-CASE-NPO-15644-1] 23 p3749 N84-33767
Digital processing and absolute calibration of a stripmap synthetic aperture radar 23 p3778 N84-33954
Calibration of precise satellite altimetry for the ionosphere and wet troposphere --- TOPEX 23 p3778 N84-33955
ERS-1 system simulation and calibration 23 p3783 N84-33991
The in-flight calibration of a satellite-borne wind scatterometer --- ERS-1 (ESA) 23 p3783 N84-33993
Performance of passive solar and energy conserving houses in California
[SERI/STR-254-2017] 23 p3790 N84-34039
A comparison of impedance measurement techniques in air
[AD-A143638] 23 p3821 N84-34232
Planetary data definition 23 p3841 N84-34367
General Integrated Multipurpose Inflight Calibration System (GIMICS) 24 p3851 N84-34420

CALIFORNIA
Preliminary analysis of the seismic vulnerability of selected buildings at Fort Ord, California using the rapid eismic analysis procedure
[AD-A130924] 01 p0057 N84-10372
Evaluation of LANDSAT-4 TM and MSS ground geometry performance without ground control
[E84-10022] 01 p0099 N84-10644
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F. Lemoore NAS, California
[AD-A130205] 01 p0108 N84-10699
Helicopter noise survey performed at Parker Center, Pasadena, and Anaheim, California, on February 10-14, 1983
[AD-A130962] 02 p0288 N84-11887
Compilation of selected faults and lineaments that may be relevant to a study of seismic activity in southern Nevada and part of adjacent California
[DE83-017085] 03 p0409 N84-12673
Characterization of reactants, reaction mechanisms and reaction products leading to extreme acid rain and acid aerosol conditions in southern California
[PB83-252825] 04 p0561 N84-13697
SRL tethersonde and echosonde data, Anderson Creek Valley, California
[DE84-001680] 04 p0564 N84-13715
Combined use of remote sensing and seismic observations to infer geologically recent crustal deformation, active faulting, and stress fields --- California and Pennsylvania
[E84-10057] 06 p0864 N84-15628
Geologic application of spaceborne radars 07 p0987 N84-16391
Short-range local forecasting of coastal summer stratus by statistical techniques, a pilot study
[AD-A134590] 07 p1040 N84-16742
Effects of diesel vehicles on visibility in California
[PB84-122167] 08 p1184 N84-17714
The upper mantle beneath the Cascade Range: A comparison with the Gulf of California
[NASA-CR-175428] 11 p1681 N84-20970
Reflectance modeling 12 p1831 N84-21935
Generating capacity of the Heber geothermal field, California
[DE84-006883] 13 p2009 N84-23030
Neotectonics of the north frontal fault system of the San Bernardino Mountains, southern California: Cajon Pass to Lucerne Valley 13 p2013 N84-23061
Strong motion program report
[USGS-CIRC-914] 14 p2175 N84-24028
Diagnostic tools for mapping California EOR processes
[DE84-006232] 15 p2359 N84-25157
Aircraft traffic density in the Los Angeles basin
[AD-A141435] 19 p2961 N84-28768
Evaluation of LANDSAT-D Thematic Mapper performance as applied to hydrocarbon exploration
[E84-10154] 19 p3038 N84-29275
Snow reflectance from LANDSAT-4 Thematic Mapper 20 p3216 N84-30426
Interannual variability in sea-surface temperature at one location along the central California coast
[AD-A142553] 20 p3251 N84-30632
Seismicity and crustal structure studies of southern California: Tectonic implications from improved earthquake locations 21 p3439 N84-31819
Volcanism, plutonism, and sedimentation in a late Devonian Submarine Island-arc setting, Northern Sierra Nevada, California 21 p3441 N84-31831
Field surveys of carbon monoxide in commercial settings using personal exposure monitors
[PB84-211291] 22 p3599 N84-32797
Investigation of several aspects of LANDSAT 4/5 data quality --- California, Texas, Arkansas, Alabama, and Pacific Ocean
[E84-10024] 22 p3613 N84-32892
Performance of passive solar and energy conserving houses in California
[SERI/STR-254-2017] 23 p3790 N84-34039
The shear wave velocity structure of the lithosphere in central and northern California 23 p3795 N84-34063
Cirques of the Marble Mountains, northwestern California 23 p3795 N84-34065
Paleogeography and tectonics of the Redding section, Eastern Klamath Belt, Northern California 23 p3796 N84-34070
Petrology of basement rocks of the California continental borderline and the Los Angeles Basin 24 p3917 N84-34801
Geophysical interpretation of satellite laser ranging measurements of crustal movement in California
[NASA-TM-86148] 24 p3919 N84-34808

CALLISTO
Geologic investigations of outer planets satellites
[NASA-CR-173497] 13 p2091 N84-23544
Spatial distribution of craters on the Moon and Callisto 15 p2426 N84-25574
Callisto: A lunar-like bombardment? 15 p2426 N84-25575
A geographic comparison of selected large-scale planetary surface features
[NASA-TM-86147] 22 p3679 N84-33320

CALORIC REQUIREMENTS
Metabolism and nutritional status in emergency situations without food supply or on a low-calorie diet 07 p1046 N84-16781

CALORIMETERS
Journal of Research of the National Bureau of Standards. Volume 87, Number 6, November-December 1982
[PB83-226670] 01 p0160 N84-11056
Calorimeter operating system implemented on a Z-80 microcomputer in read only memory
[DE83-016647] 03 p0419 N84-12734
Measurement of thermal conductivity from high-temperature pulse diffusivity and calorimetry measurements
[DE84-000353] 04 p0503 N84-13297
The design and expected performance of a fast scintillator hadron calorimeter 06 p0912 N84-15926
Scintillation chamber operation of calorimeters for colliding beam detectors 06 p0912 N84-15927
Calorimetry at L = 10/sup 33 06 p0913 N84-15931
Operation of a high-P/sub T spectrometer arm at 10/sup 33 cm-2 sec-1 with praticle identification 06 p0913 N84-15937
Muons and electrons in general 06 p0914 N84-15938
Software clock-divider
[DE84-001266] 07 p1053 N84-16817
The practical use of data as to the solution enthalpies of molten Fe-V-Si
[BLL-M-35430-(5828.4)] 08 p1129 N84-17342
Heat transfer measurements in cold wind tunnels
[AD-A135740] 09 p1315 N84-18591
Periods found in heat measurements obtained by calorimetry
[DE84-007446] 14 p2220 N84-24321
Journal of Research of the National Bureau of Standards. Volume 88, Number 6, November-December 1983
[PB84-160605] 14 p2220 N84-24322
Assessing the credibility of the calorific value of municipal solid waste
[PB84-175470] 16 p2474 N84-25861
Initial results from testing passive solar components in the NBS calorimeter 16 p2517 N84-26160
Experimental study of the thermodynamics of thin films and surfaces
[DE84-010361] 18 p2943 N84-28660
Capillary separations with calorimetric absorbance detection
[DE84-012466] 20 p3195 N84-30291
Opacification of high temperature fibrous insulation
[NASA-CR-166578] 21 p3356 N84-31285
Differential scanning calorimeter data acquisiton system
[AD-A143118] 21 p3405 N84-31600
Electrical and differential scanning calorimetry studies of poly(ethylene oxide) complexed with alkaline earth thiocyanates
[AD-A143196] 22 p3546 N84-32449
High energy physics research at Texas Agriculture and Mining University --- magnetic monopoles in cosmic rays and hadron calorimeter design
[DE84-011616] 22 p3655 N84-33167
Balloon test project: Cosmic Ray Antimatter Calorimeter (CRAC)
[NASA-TM-77461] 23 p3750 N84-33772
Spectroscopy of adsorbates by transient laser calorimetry
[AD-A144473] 24 p3880 N84-34584

CALORIMETRY
U HEAT MEASUREMENT

CALUTRONS
U CYCLOTRONS

CAM (MANUFACTURING)
U COMPUTER AIDED MANUFACTURING

CAMBER
NT WING CAMBER
Modification of wing design to increase lift for future Airbus derivatives (NEW)
[BMFT-FB-W-83-005] 02 p0178 N84-11167
Delta wings with shock-free cross flow
[NASA-CR-172297] 10 p1419 N84-19282
Investigation of effects contributing to dynamic stall using a momentum-integral method
[AD-A136897] 10 p1421 N84-19291
Numerical analysis of a variable camber rotor blade as a lift control device
[NASA-CR-173452] 12 p1769 N84-21538

CAMBERED WINGS
Body and canard effects on an attached-flow maneuver wing at Mach 1.62
[NASA-TP-2249] 09 p1250 N84-18163
Wind tunnel tests on an outer wing segment of the ASW-19X sailplane
[VTH-LR-389] 10 p1423 N84-19305
VORCAM: A computer program for calculating vortex lift effect of cambered wings by the suction analogy
[NASA-CR-165800] 23 p3690 N84-33387

CAMERA SHUTTERS
Edge-sealed PLZT shutters for operation in high-humidity/temperature environments
[DE83-012627] 01 p0148 N84-10971

CAMERA TUBES
NT IMAGE DISSECTOR TUBES
NT THERMICONS
NT VIDICONS
Streak cameras for soft X-ray and optical radiation
[DE84-002780] 06 p1162 N84-17564
Development of automatic measuring system for image pickup tubes
[NHK-LN-295] 15 p2335 N84-25014

CAMERAS
NT FAINT OBJECT CAMERA
NT FRAMING CAMERAS
NT HIGH SPEED CAMERAS
NT MULTISPECTRAL BAND CAMERAS
NT PINHOLE CAMERAS
NT STREAK CAMERAS
NT TELEVISION CAMERAS
Using an X-ray-sensitive vidicon and remote-control stage mechanism to obtain critical radiographic alignment of small explosive devices
[DE83-012846] 03 p0358 N84-12326
Implementation of automatic focusing algorithms for a computer vision system with camera control
[AD-A133492] 06 p0894 N84-15807
Spas color camera
[NASA-CR-171739] 08 p1161 N84-17559
Infrared monitoring of gyrotron windows
[DE84-004442] 10 p1499 N84-19799
Image dissector camera system study
[NASA-CR-171759] 11 p1656 N84-20806
A CCD photometric camera for satellite observation
[AD-A137214] 11 p1660 N84-20833
Optical engineering at Los Alamos: A history
[DE83-009905] 12 p1908 N84-22431
Enviropod handbook: A guide to preparation and use of the Environmental Protection Agency's light-weight aerial camera system --- Weber River, Utah
[E84-10123] 14 p2168 N84-23982
In-situ measurements of alloy oxidation/corrosion/erosion using a video camera and proximity sensor with microcomputer control
[NASA-TM-83673] 18 p2813 N84-27859
Automatic camera tracking for remote manipulators
[DE84-011455] 21 p3407 N84-31608

Method of measuring optical properties of a transparency
[AD-D011117] 22 p3658 N84-33188
Two approaches to the instrumental estimation of detectability 24 p3915 N84-34789

CAMOUFLAGE
Cleaning compound efficiency; test method for aircraft surface cleaners
[AD-A138515] 12 p1764 N84-21504
Passive countersurveillance: An overview 24 p3914 N84-34781
Detecting camouflaged targets: Theory into practice 24 p3914 N84-34784
Development of texture descriptions for images 24 p3914 N84-34785

CANS
The chemical and physical changes on lubricated surfaces 22 p3602 N84-32820

CANADA
NT MANITOBA
NT ONTARIO
NT YUKON TERRITORY
CCRS proposal for evaluating LANDSAT-D MSS and TM data
[E84-10026] 02 p0238 N84-11560
Movement of satellite-tracked buoys in the Beaufort sea (1979-1981)
[AD-A133159] 07 p1041 N84-16748
Chemical generation and deactivation of oxygen singlet delta
[AD-A135392] 08 p1124 N84-17308
Satellite tactical communications at high altitudes
[AD-P002145] 14 p2137 N84-23810
Guide to Canadian aerospace related industries
[AD-A140606] 17 p2598 N84-26650

CANADIAN SPACE PROGRAMS
Research activities at the Institute for Aerospace Studies, 1982 12 p1917 N84-22492

CANALS
Panama Canal Fog Navigation Study: Candidate system definition
[PB84-180793] 20 p3249 N84-30624
Panama Canal Fog Navigation Study: System requirements statement
[PB84-179811] 20 p3249 N84-30625

CANARD CONFIGURATIONS
Wake characteristics and interactions of the Canard/wing lifting surface configuration of the X-29 forward-swept wing flight demonstrator
[AD-A133188] 06 p0783 N84-15126
Control definition study for advanced vehicles
[NASA-CR-3738] 07 p0958 N84-16212
Missile rolling tail brake torque system — simulating bearing friction on canard controlled missiles
[NASA-CASE-LAR-12751-1] 07 p0961 N84-16231
Body and canard effects on an attached-flow maneuver wing at Mach 1.62
[NASA-TP-2249] 09 p1250 N84-18163

CANCELLATION
Clutter cancellation techniques for use in a space-based radar system
[AD-A138467] 12 p1808 N84-21784
A re-evaluations of cancellation theory: Visual, vestibular and oculomotor contributions to perceived object motion
[AD-B082936] 19 p3067 N84-29455
Acousto-Optic Adaptive Processing (AOAP)
[AD-A141445] 19 p3100 N84-29689
Nulling in array patterns with orthogonal analytic cancellation beams
[AD-A142719] 20 p3178 N84-30168
Cascaded adaptive loops
[AD-D011116] 22 p3580 N84-32674

CANCER
Nonparametric estimation of the distribution of time to onset for specific diseases in survival/sacrifice experiments
[DE83-013726] 01 p0112 N84-10728
The relevance of experimental animal studies to the human experience
[DE83-014053] 01 p0112 N84-10729
Bioassay of particulate organic matter from ambient air
[PB83-239731] 02 p0267 N84-11754
Method for thermal monitoring subcutaneous tissue
[NASA-CASE-LAR-13028-1] 11 p1694 N84-21053

CANISTERS
U CANS

CANNONS
U GUNS (ORDNANCE)

CANONICAL FORMS
Nonlinear transformat
[NASA-CR-166506] 06 p0905 N84-15877
The actual content of quantum theoretical kinematics and mechanics
[NASA-TM-77379] 07 p1083 N84-17046
Numeric extension of periodic solutions to Lagrangian system with two degrees of freedom 19 p2972 N84-26843
Width of nonlinear resonance
[DE84-009682] 19 p3102 N84-29706
Formal solutions in a double resonant problem 19 p3118 N84-29813
Canonical realizations of completely regular modular computing networks
[AD-A142010] 20 p3277 N84-30802
Two-phase methods of solving canonical problem of linear programming 21 p3484 N84-32078
Canonic measurements in the classic moment problem 22 p3635 N84-33041
Frequency response design methods for large scale systems
[DE84-013111] 22 p3644 N84-33103
Canonical commutation relations and Gauss' law in the temporal gauge
[PREPRINT-360] 23 p3819 N84-34216

CANOPIES
Aircraft transparency testing methodology and evaluation criteria. Part 2: Methodology development for improved durability
[AD-A131928] 03 p0331 N84-12157
Aircraft transparency testing methodology and evaluation criteria. Part 1: Test methods and information analysis
[AD-A131927] 03 p0331 N84-12158
Flightline thermal environment testing of F-111 transparencies
[AD-A131642] 03 p0332 N84-12163
A theoretical analysis of the aerodynamic and structural forces associated with a ribbon parachute canopy in steady descent 16 p2443 N84-25671
Optical interactions of aircraft windscreens and HUDs (Head-Up Displays) producing diplopia
[AD-P003159] 17 p2588 N84-26590
Conference on Aerospace Transparent Materials and Enclosures
[AD-A140701] 17 p2589 N84-26596
Pyrotechnic clear path egress system for the T-38 trainer aircraft
[AD-P003184] 17 p2589 N84-26597
New high performance windshield/canopy materials
[AD-P003199] 17 p2592 N84-26612
Fluroepoxy and fluroacrylic transparencies
[AD-P003201] 17 p2592 N84-26614
In-flight measurement of pressure distribution over T-38 student canopy
[AD-P003207] 17 p2593 N84-26620
Swedish Air Force maintenance programme for aged transparent enclosures for jet trainer and jet fighter aircraft
[AD-P003208] 17 p2593 N84-26621
Visual effects of F-16 Canopy/HUD (Head-Up Display) integration
[AD-P003221] 17 p2595 N84-26634
MAGNA (Materially and Geometrically Nonlinear Analysis) computer simulation of bird impact on the F-15 aircraft canopy
[AD-P003230] 17 p2597 N84-26643
Simulation of T-38 aircraft student canopy response to cockpit pressure and thermal loads using MAGNA (Materially and Geometrically Nonlinear Analysis)
[AD-P003231] 17 p2597 N84-26644
Parametric studies of the T-38 student windshield using the finite element of code MAGNA (Materially and Geometrically Nonlinear Analysis)
[AD-P003232] 17 p2597 N84-26645
Theoretical evaluation of the structural performance of Swedish fighter aircraft windshields subjected to bird impact
[AD-P003235] 17 p2597 N84-26648
Status of new aerothermodynamic analysis tool for high-temperature resistant transparencies
[AD-P003236] 17 p2598 N84-26649
Monolithic F-16 uniform thickness stretched acrylic canopy transparency program
[AD-A140645] 17 p2606 N84-26694
Improving the birdstrike resistance and durability of aircraft windshield systems: Program technical summary
[AD-A143712] 23 p3691 N84-33395

CANOPIES (VEGETATION)
Radar remote sensing for crop classification and canopy condition assessment: Ground-data documentation
[E84-10020] 01 p0099 N84-10643
Effects of vegetation canopy on the radar backscattering coefficient
[NASA-TM-85070] 02 p0206 N84-11359
The use of airborne thematic mapper simulation data for the estimation and mapping of Green Leaf Area Index (GLAI) 03 p0398 N84-12602
Seasonal soybean crop reflectance
[E84-10049] 04 p0553 N84-13642
A correlation analysis of percent canopy closure versus TMS spectral response for selected forest sites in the San Juan National Forest, Colorado
[E84-10066] 06 p0665 N84-15635
The effects of vegetation and soil hydraulic properties on passive microwave sensing of soil moisture: Data report for the 1982 fiels experiments
[NASA-TM-85106] 07 p1023 N84-16633
Evaluation of spatial, radiometric and spectral Thematic Mapper performance for coastal studies
[E84-10093] 10 p1522 N84-19964
Interpreting Michigan forest cover types from color infrared aerial photographs
[E84-10097] 12 p1828 N84-21917
Remote sensing of agricultural crops and soils
[E84-10107] 12 p1829 N84-21925
Intercepted photosynthetically active radiation estimated by spectral reflectance — Phoenix, Arizona
[E84-10109] 12 p1829 N84-21927
Reflectance modeling 12 p1830 N84-21931
Bidirectional reflectance modeling of non-homogeneous plant canopies 12 p1830 N84-21932
Comprehensive understanding for vegetated scene radiance relationships 12 p1830 N84-21933
Measurement and modeling of the optical scattering properties of crop canopies 12 p1831 N84-21934
Reflectance modeling 12 p1831 N84-21935
A study of the relation between crop growth and spectra reflectance parameters 12 p1831 N84-21936
Measuring and modeling of the dielectric properties and attenuation of vegetation 12 p1832 N84-21940
Determination of the sources of radar scattering 12 p1832 N84-21941
Effects of vegetation canopy structure on microwave scattering 12 p1832 N84-21942
Bidirectional spectral reflectance of Earth resources: Influence of scene complexity and atmospheric effects on remote sensing 12 p1833 N84-21946
Comprehensive understanding for vegetated scene radiance relationships 12 p1833 N84-21947
Measurement and modeling of the optical scattering properties of crop canopies 12 p1833 N84-21948
A study of the relation between crop growth and spectra reflectance parameters 12 p1833 N84-21949
Determination of the sources of radar scattering 12 p1834 N84-21954
Time dependent land and vegetation canopy temperatures 12 p1858 N84-22104
Evaluation of spatial, radiometric and spectral Thematic Mapper performance for coastal studies
[E84-10118] 14 p2167 N84-23978
Evaluation of spatial, radiometric and spectral Thematic Mapper performance for coastal studies
[E84-10159] 17 p2709 N84-27251
Costs of measuring leaf area index of corn
[E84-10162] 17 p2710 N84-27254
Aboveground biomass estimation in a tidal brackish marsh using simulated Thematic Mapper spectral data 20 p3214 N84-30419
Parametric and nonparametric analysis of LANDSAT TM and MSS imagery for detecting submerged plant communities 20 p3215 N84-30424
Daily variations of temperature and humidity within and above Amazonian forest
[INPE-3196-PRE/560] 21 p3447 N84-31869
Remote sensing for geobotanical prospecting 22 p3613 N84-32689
Modeling the polarization dependence of the attenuation in vegetation canopies — microwave attenuation 23 p3767 N84-33876
The effect of row direction on the microwave emission from vegetation canopies 23 p3767 N84-33877
Parametric analysis of synthetic aperture radar data acquired over truck garden vegetation 23 p3767 N84-33878
The X, and L-band radar backscatterer analysis of agricultural crops in West Germany 23 p3767 N84-33879
On the relationships between radar backscattering coefficient and vegetation canopy characteristics 23 p3768 N84-33882
Automatic analysis of bitemporal LANDSAT data: An application to the study of the evolution of vegetation-covered areas in a tropical region 23 p3768 N84-33887

CANS
Design guidelines for carbon dioxide scrubbers
[AD-A130459] 01 p0117 N84-10761
Improvement of manufacturing of drawn and ironed steel cans
[BMFT-FB-T-83-094] 02 p0198 N84-11286
Characterization of borosilicate glass containing Savannah River Plant radioactive waste. 2: Microstructure and durability
[DE83-011246] 02 p0292 N84-11916

Flame radiation and liner heat transfer in a tubular-can combustor
[NASA-TM-83538] 04 p0485 N84-13188
Development, production and marketing of a temporarily protected blackplate (TPP) — cans
[BMFT-FB-T-83-195] 10 p1463 N84-19555
A high accuracy temperature measurement on a diagnostic canister for the Nevada test site
[AD-P002678] 11 p1658 N84-20815
A versatile structure for GAS payloads 18 p2801 N84-27775

CANT
U SLOPES

CANTILEVER BEAMS
An improved finite-difference analysis of uncoupled vibrations of tapered cantilever beams
[NASA-TM-83495] 04 p0548 N84-13610
Free vibration analysis with beam models which include bending warping, torsion warping and anticlastic bending effects 11 p1667 N84-20674
Wave attenuation in periodic structures
[AD-A138924] 13 p2001 N84-22984
CASE (Computer-Aided Structural Engineering) study of 6 major general-purpose finite element programs
[AD-A139065] 13 p2001 N84-22986
Middle East Technical University Journal of Pure and Applied Sciences, volume 15, no. 3 15 p2401 N84-25411
Free vibration analysis of uniform and nonuniform cantilever beams by including the effects of transverse shear deformation and rotary inertia 15 p2402 N84-25417
Dynamic crack growth criteria in structural metals
[AD-P003107] 16 p2467 N84-25812
Preliminary experimental and theoretical results on cantilever vibration absorbers applied for aircraft cabin vibration
[SPER-8390] 18 p2794 N84-27730
Approximation techniques for parameter estimation and feedback control for distributed models of large flexible structures
[NASA-CR-172411] 20 p3135 N84-29903
Loss factors measured in metal matrix composite materials
[AD-A143542] 22 p3545 N84-32440

CANTILEVER MEMBERS
NT CANTILEVER BEAMS
NT CANTILEVER PLATES
The influence of gyroscopic forces on the dynamic behavior and flutter of rotating blades
[NASA-CR-175444] 11 p1608 N84-20524

CANTILEVER PLATES
Wave attenuation in damped periodic structures
[AD-A133736] 05 p0693 N84-14550

CANTILEVER WINGS
U WINGS

CANYONS
NT GRAND CANYON (AZ)
Petrographic examination of Bell Canyon Tests (BCT) 1-FF field grouts over a 3-year period
[DE83-018226] 04 p0555 N84-13654
A tectonic geomorphological classification of the walls of Valles Marineris 13 p2087 N84-23518
Canyon and slope processes study. Volume 3: Biological processes
[PB84-169507] 17 p2738 N84-27393

CAP CLOUDS
Cloud physics studies in SCPP (Sierra Cooperative Pilot Project) during 1982-1983
[PB84-176452] 17 p2735 N84-27384

CAPACITANCE
Development of instrumentation for monitoring carbon fiber emission
[PB83-233726] 03 p0378 N84-12460
Discharge kinetics of the nickel electrode
[AD-A134389] 07 p0970 N84-16283
Multipole monolithic Surface Acoustic Wave (SAW) resonator filters
[AD-A136123] 09 p1309 N84-18561
Parametric analysis of hollow conductor parallel and coaxial transmission lines for high frequency space power distribution
[NASA-TM-83601] 11 p1625 N84-20639
Deep traps in AlGaAs layers at AlGaAs-GaAs interfaces
[DE84-005234] 11 p1745 N84-21387
Solar cell characterization by photocapacitance
[DE84-008215] 14 p2143 N84-23849
Comparative measurement of capacitance in solar cells for space and terrestrial applications 17 p2662 N84-26984
Characteristics of arc currents on a negatively biased solar cell array in a plasma
[NASA-TM-83728] 18 p2807 N84-27824
Automatic digital battery cell capacitance measurements
[AD-A143143] 21 p3392 N84-31523

CAPACITANCE SWITCHES
Controller for the electro-optical shutter of a dual pulse laser 13 p1968 N84-22778
TLINES: A computer program for circuits of transmission lines
[AD-A139596] 14 p2142 N84-23844

CAPACITORS
High-current, high-frequency capacitors 01 p0011 N84-10067
Modeling of parasitic effects in discrete passive components
[AD-A130458] 01 p0070 N84-10460
RAVEN, a 5-jK, 1.5-MV repetitive pulser
[DE83-013643] 01 p0071 N84-10465
A 2-MJ staged explosive generator
[DE83-013677] 01 p0072 N84-10474
Performance of the perfluorocarbon liquid/plastic film capacitor technology in repetitive discharge pulse power service
[DE83-012502] 01 p0073 N84-10477
Analysis of soldering-induced cracking of BaTiO3 ceramic capacitors
[DE83-013980] 02 p0200 N84-11304
The performance of the perfluorocarbon liquid/plastic-film capacitor technology in pulse-power service. A current status report
[DE83-014606] 03 p0369 N84-12402
Plasma polymerized high energy density dielectric films for capacitors
[NASA-CR-168233] 04 p0505 N84-13310
A programmable controller with overcurrent latch for constant primary peak current in capacitor-charging FET switcher for Nova
[DE83-018184] 04 p0542 N84-13569
Infant-mortality testing of high-energy-density capacitors used on Nova
[DE83-018027] 04 p0610 N84-14028
Capacitor hardness demonstration program
[AD-A133045] 05 p0676 N84-14442
New-generation low-power radiation survey instruments
[DE84-001716] 05 p0685 N84-14506
Novette pulse-power-system description
[DE83-018185] 06 p0918 N84-15968
Evaluation of radiation damage to Metal-Oxide-Semiconductor (MOS) devices
[AD-A133593] 06 p0923 N84-16002
Electromagnetic propulsion test facility
[NASA-TM-83568] 07 p0961 N84-16229
Design and construction of large capacitor banks
[DE84-002790] 07 p0998 N84-16472
Switched-capacitor sampled-data networks with communication applications 08 p1142 N84-17429
Linear inductive accelerator
[AD-A135547] 08 p1229 N84-18029
Reliability studies of ceramic capacitors
[AD-A136378] 09 p1287 N84-18403
Thyristor converter for capacitive laser accumulators
[AD-A136051] 09 p1341 N84-18762
Test techniques for model development of repetitive service energy storage capacitors
[DE84-004312] 11 p1674 N84-20925
Experimental investigation of switched-capacitor circuits and systems
[AD-A138034] 12 p1811 N84-21808
High voltage-high power components for large space power distribution systems
[NASA-TM-83648] 13 p1940 N84-22615
Leakage currents in degraded multi-layer ceramic capacitors
[AD-A140157] 17 p2662 N84-26985
Novelties in design of instruments for measuring high ac voltages 18 p2826 N84-27940
Intrinsic mechanisms of multi-layer ceramic capacitor failure
[AD-A141050] 18 p2834 N84-27988
Estimating reliability of an electrical insulating system
[DE84-010633] 18 p2834 N84-27993
Testing and failure analysis to improve screening techniques for hermetically sealed metallized film capacitors for low energy applications
[NASA-CR-162071] 19 p3011 N84-29088
Air as an adjustable insulator for C-V and G-V analysis of semiconductor surfaces
[AD-A141437] 19 p3013 N84-29099
Properties of polymers: Some uses in electronics, part two
[DE84-012864] 21 p3371 N84-31387
Energy storage capacitors. Lecture 4: Appendix
[DE84-010040] 21 p3395 N84-31546
A 50 kJ repetitively pulsed capacitor bank
[DE84-012959] 22 p3589 N84-32735
Multilayer ceramic capacitor
[AD-D011166] 23 p3742 N84-33723

CAPACITY
Ragone characteristics of aqueous mobile batteries and their application in projecting ranges of electric vehicles
[DE83-014701] 03 p0404 N84-12642
Capacity control of screw compressor units 11 p1640 N84-20726
Small wind systems (field evaluation). Volume 4: Small wind system performance data
[DE84-006920] 14 p2173 N84-24014
Effects of standtime on the available capacity of lead-acid and nickel/iron electric vehicle batteries
[DE84-013452] 22 p3587 N84-32721

CAPE KENNEDY LAUNCH COMPLEX
A preliminary survey of plankton and periphyton in the Turn Barge Canal and basin area of Kennedy Space Center, Florida 06 p0928 N84-16027
Chronology of KSC and KSC related events for 1981
[NASA-TM-85510] 06 p0933 N84-16060
Chronology of KSC and KSC related events, 1982
[NASA-TM-85576] 12 p1917 N84-22491
Contamination control and cleanliness level integrity for the Space Shuttle Orbiter PLB, payloads and facilities at KSC 24 p3885 N84-34498

CAPILLARIES
Capillary separations with calorimetric absorbance detection
[DE84-012466] 20 p3195 N84-30291

CAPILLARIES (ANATOMY)
Morphological study of primate muscle fibers and microcirculation during head-down hypokinesia 15 p2377 N84-25262

CAPILLARY CIRCULATION
U CAPILLARY FLOW

CAPILLARY FLOW
Capillary supercritical fluid chromatography of polycyclic aromatic compounds
[DE84-002939] 07 p0972 N84-16302
Analysis of flow dynamics through small diameter gas sampling systems
[NASA-CR-175447] 11 p1728 N84-21276
Some recent progress in steep front calculations for porous flow
[DE84-008249] 19 p3025 N84-29183
Thickener/fluid interaction in lubricating greases
[AD-A142276] 20 p3161 N84-30076
Effects of cyclohexyl groups and ortho-substituents on the viscosity of ester liquid crystal components
[AD-A143028] 21 p3504 N84-32205
Features of behaviour of gas bubbles in molten oxide films during enamelling
[BLL-M-35672-(5828.4)] 22 p3553 N84-32496

CAPILLARY TUBES
Note on evaporation in capillaries
[AD-A132850] 05 p0650 N84-14275
Complete sample analysis by gas chromatography
[BLL-T6213/BG/LRS/LRST671/83] 06 p0800 N84-15212
Wave propagation in a thin walled liquid filled initially stressed tube — blood flow
[MEAH-24] 07 p1005 N84-16519
Approximation dispersion equations for thin walled liquid filled tubes — blood flow
[MEAH-25] 07 p1005 N84-16520
Dual adsorber-capillary column system for gas chromatographic analysis of air samples
[AD-A138305] 12 p1792 N84-21689
Microwave discharges in capillary tubes
[LP-203] 16 p2558 N84-26410
Capillary zone electrophoresis: Instrumentation and use with nonaqueous solvents
[DE84-010617] 18 p2812 N84-27854
Investigation of the influence of the zeta-potential on the filtration rate in the presence of collectors
[NASA-TM-77447] 19 p2987 N84-28927
Diagnostics of a high current capillary discharge
[DE84-011369] 20 p3179 N84-30194
Low loss splicing method for single-mode optical fiber
[NASA-CASE-NPO-16294-1] 22 p3656 N84-33179

CAPILLARY WAVES
NT BAROCLINIC WAVES
NT GRAVITY WAVES
NT RIPPLES
Interaction of the radar waves with the capillary waves on the ocean
[AD-A129690] 01 p0064 N84-10421
On the growth of gravity-capillary waves by wind
[KNMI-WR-83-10] 03 p0412 N84-12698

CAPTIVE TESTS
NT STATIC FIRING
NT STATIC TESTS
Captive trajectory system test planning information for AEDC supersonic wind tunnel (A) and hypersonic wind tunnels (B) and (C)
[AD-A136439] 09 p1259 N84-18217

Recent developments in store separation and grid survey techniques using the ARA Two-Sting Rig
14 p2099 N84-23595
A self-contained captive trajectory system for a blowdown wind tunnel
14 p2099 N84-23596
CAPTURE CROSS SECTIONS
U ABSORPTION CROSS SECTIONS
CAPTURE EFFECT
Giant dipole resonances built on excited states
[DE84-001549] 06 p0916 N84-15954
Unbalanced infrared radiation and natural laser effect in atmospheres of Venus and Mars
19 p2975 N84-28658
CARBAMATES (TRADENAME)
NT URETHANES
CARBAMIDES
A melt for electrolytic tungsten plating — using a carbamide base and ammonium chloride
[BLL-OA-TRANS-3160-(6196.3)]
09 p1281 N84-18369
CARBAZOLES
Innovative concepts for photovoltaic applications
[DE84-005247] 11 p1674 N84-20923
CARBENES
The chemistry of transition metal carbene complexes
[AD-A133541] 06 p0801 N84-15225
Chemistry of energetic fragments: Hypovalent radicals
[AD-A143269] 22 p3547 N84-32453
CARBIDES
NT BORON CARBIDES
NT CEMENTITE
NT MOLYBDENUM CARBIDES
NT SILICON CARBIDES
NT TANTALUM CARBIDES
NT TITANIUM CARBIDES
NT TUNGSTEN CARBIDES
NT VANADIUM CARBIDES
NT ZIRCONIUM CARBIDES
Phonon dispersion of transverse basal-plane modes in alkali-graphite compounds
[DE83-003910] 03 p0350 N84-12273
Carbide precipitation in nickel-base model alloys and its influence on ductility and fracture behavior at room temperature
[JUEL-1845] 05 p0657 N84-14319
Theoretical and experimental determination of stress-strain of high-pressure equipment
[BLL-M-35287-(5828.4)] 06 p0856 N84-15574
A microstatistical model for carbide induced cleavage fracture — of steels
[VTT-RR-220] 07 p1017 N84-16599
Carbide formation and fracture of high carbon steel
[AD-A138519] 12 p1798 N84-21730
Absorbable-susceptor joining of ceramic surfaces
[NASA-CASE-NPO-15640-1] 13 p1962 N84-22748
Electrochemistry of carbides and carbon cathodes in molten halides
[DE84-007966] 15 p2287 N84-24725
Anisoptropic diffusion kinetics of metals and carbides in pyrolytic graphite
[BLL-CTO-2261-(9091.9F)] 19 p2991 N84-28953
Seizing in friction of composite materials with differing phase compositions
24 p3868 N84-34517
Carbide phases in high-temperature nickel-hafnium alloys
24 p3871 N84-34532
CARBOHYDRATE METABOLISM
New book on metabolism under hypodynamic conditions
15 p2378 N84-25271
CARBOHYDRATES
NT ADENOSINE TRIPHOSPHATE
NT CELLULOSE
NT CITRIC ACID
NT DEXTRANS
NT FATS
NT GLUCOSE
NT GLUCOSIDES
NT GLYCOGENS
NT NUCLEOSIDES
NT RIBOSE
NT SUGARS
Yields photosynthetic efficiencies, and proximate chemical composition of dense cultures of marine microalgae, a subcontract report
[DE83-011992] 04 p0570 N84-13757
Carbohydrate-protein interactions
23 p3805 N84-34123
CARBON
NT ACTIVATED CARBON
NT CARBON 12
NT CARBON 13
NT CARBON 14
NT GLASSY CARBON
Investigation of coherent anti-Stokes Raman scattering measurements in carbon ablation experiments
[AD-A130578] 01 p0036 N84-10230
Effects of solvent and supporting electrolyte on the electrochemical reduction of sulfur dioxide
[DE83-013436] 01 p0038 N84-10241
Thermodynamic activity of carbon in solid nickel
[BLL-M-35192-(5828.4)] 01 p0040 N84-10258
Hydrogen-evolution monitoring as a measure of steam-generator corrosion
[DE83-900677] 01 p0044 N84-10285
Torsion characteristics of isotropic and carbon fiber reinforced carbons
[REPT-35] 02 p0189 N84-11226
Carbon piezoresistive stress gauge
[DE83-016505] 02 p0224 N84-11470
Solar radiative impacts of graphitic carbon (soot) in aerosols, clouds and snow
02 p0243 N84-11592
Influence of heat-treatment and physicochemical properties on the electrochemical oxidation of carbon blacks in phosphoric acid
[DE83-017744] 03 p0350 N84-12276
Creation of ultra-high-pressure shocks by the collision of laser-accelerated disks: Experiment and theory
[DE83-017366] 03 p0362 N84-12486
Asthalometer: An instrument for the real-time measurement of optical absorption by aerosol particles
[DE84-000400] 04 p0538 N84-13538
Glass-like carbon: A C/sub x/H polymer intercalation compound
[DE84-001863] 05 p0660 N84-14340
Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] 07 p0967 N84-16266
Gas phase spectroscopy near the carbon K-edge
[DE84-002876] 07 p0971 N84-16294
Bifunctional oxygen electrodes
[DE84-002774] 07 p0972 N84-16296
Ion deposited carbon coatings
[AD-A135068] 08 p1136 N84-17390
Apparatus and method for destructive removal of particles contained in flowing fluid
[NASA-CASE-NPO-15426-1] 08 p1161 N84-17555
Effects of diesel vehicles on visibility in California
[PB84-122167] 08 p1184 N84-17714
The effect of various carbon sources on the growth of single-celled cyanophyta
[NASA-TM-77090] 08 p1197 N84-17804
Combustion of agglomerates formed by carbon slurry fuels
[AD-A136390] 09 p1278 N84-18345
Mechanical properties of Mn-Al-C system alloys
[BLL-M-35432] 09 p1280 N84-18362
Evaluation of organic carbon analyzers for space application — for water reclamation
[NASA-CR-171755] 09 p1317 N84-18807
Preparation of a profiled film of diamond-like carbon on germanium substrates
[AD-A136314] 09 p1394 N84-19104
Coaxial carbon plasma gun deposition of amorphous carbon films
[NASA-TM-83600] 10 p1587 N84-20404
Barriers to the migration of interphase boundaries
[AD-A137902] 11 p1633 N84-20679
Electrical, luminescence and SIMS (Secondary ion mass spectroscopy) characterization of carbon implanted vapor phase epitaxial gallium arsenide
[AD-A138094] 12 p1913 N84-22464
Solid carbon oxidation and radiation in exhaust plumes
13 p1941 N84-22623
Diamondlike flakes
[NASA-CASE-LEW-13837-2] 13 p1953 N84-22696
Zinc electrode morphology in acid electrolytes
[DE84-007184] 14 p2124 N84-23728
Electrochemistry of carbides and carbon cathodes in molten halides
[DE84-007966] 15 p2287 N84-24725
Status of understanding for seal materials
15 p2343 N84-25062
Neutral carbon in the Egg Nebula (AFGL 2688)
[NASA-TM-84360] 16 p2574 N84-26518
Chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] 18 p2868 N84-28205
Salinity and temperature effects on photosynthesis and organic carbon release rates by selected benthic macroalgae
[PB84-163148] 20 p3257 N84-30674
Energy-resolving carbon resistance probes for plasma edge characterization
[DE84-012235] 20 p3306 N84-30997
Investigation of damage and damage propagation in static and fatigue tests on carbon epoxy composites
[SNIAS-841-551-102] 21 p3358 N84-31298
Disappearance rates of C2(a 3 Pi u) and C2(X 1 Sigma g +) with O2 over the temperature range 298-1300 deg K
21 p3373 N84-31405
Dual ion beam deposition of carbon films with diamondlike properties
[NASA-TM-83743] 21 p3390 N84-31512
Atomic carbon in the Venus thermosphere: Observations and theory
21 p3525 N84-32332
Observations of the ultraviolet spectra of helium (DB) white dwarfs and a study of the ultraviolet spectra of white dwarfs containing carbon
[NASA-CR-173889] 22 p3677 N84-33310
Photoionization models of the MgII and CIV selected clouds observed in absorption in QSO spectra
22 p3678 N84-33314
A facility for investigating interactions of energetic atomic oxygen with solids
24 p3863 N84-34481
Electrofilters from polymer materials
24 p3867 N84-34509
Carbon and nitrogen abundances in field dwarf stars
24 p3988 N84-35236
CARBON COMPOUNDS
NT BORON CARBIDES
NT CALCITE
NT CARBIDES
NT CARBONATES
NT CEMENTITE
NT DOLOMITE (MINERAL)
NT FLUOROPOLYMERS
NT LEXAN (TRADEMARK)
NT MOLYBDENUM CARBIDES
NT POLYCARBONATES
NT SILICON CARBIDES
NT SODIUM CARBONATES
NT TANTALUM CARBIDES
NT TITANIUM CARBIDES
NT TUNGSTEN CARBIDES
NT VANADIUM CARBIDES
NT ZIRCONIUM CARBIDES
Performance of the perfluorocarbon liquid/plastic film capacitor technology in repetitive discharge pulse power service
[DE83-012502] 01 p0073 N84-10477
Processing science for AS/3501-6 carbon/epoxy composites
[AD-A132323] 04 p0506 N84-13316
Design and characterization of Mn-Al-C alloys for permanent magnet applications
[DE84-004881] 10 p1461 N84-19542
Diamondlike flake composites
[NASA-CASE-LEW-13837-1] 13 p1953 N84-22695
A comparison of the ultrasonic attenuation of Fe-C alloys in the annealed, normalised and quenched states
[AERE-R-10956] 18 p2929 N84-28573
Anodic dissolution of transition metal carbides at high current density
24 p3877 N84-34566
CARBON CYCLE
Carbon in live vegetation of major world ecosystems
[DE83-015328] 01 p0101 N84-10654
Role of the oceans in the carbon cycle
[DE83-015530] 02 p0258 N84-11688
Deforestation measured by LANDSAT: Steps toward a method
[DE83-016645] 04 p0554 N84-13652
Commentary on the recent CO2-climate controversy
[DE83-016367] 04 p0565 N84-13722
Atmospheric retention of anthropogenic CO2: Scenario dependence of the airborne fraction
[DE83-016854] 04 p0565 N84-13723
Can we delay a greenhouse warming
[DE84-900198] 07 p1027 N84-16658
Chemical and biological processes in CO/sub 2-ocean models
[DE84-003304] 08 p1182 N84-17702
Refinements to a one-dimensional carbon cycle model
[ISBN-0-643-03582-6] 10 p1533 N84-20040
CO/sub 2 climate research plan
[DE84-005461] 11 p1688 N84-21008
Three dimensional global modeling of atmospheric CO2
[NASA-TM-85444] 12 p1847 N84-22043
Carbon cycle research plan
[DE84-006221] 12 p1861 N84-22124
Activities report of the Institute of Meteorology
[AR-82-83] 12 p1861 N84-22128
Joint hearing on carbon dioxide and the greenhouse effect. Testimony presented to Subcommittee on Natural Resources, Agriculture Research and Environment and Subcommittee on Investigations and Oversight of the Science and Technology Committee, US House of Representatives
[DE84-007527] 15 p2372 N84-25230
The carbon dioxide research plan, a summary
[DOE/ER-0178] 16 p2528 N84-26228
Assessment of temporal dynamics of selected terrestrial carbon pools
[DE84-009850] 19 p3059 N84-29410
Geographic distribution of wetland parameters: The foundation of a data base
20 p3256 N84-30667
Atmospheric retention of anthrogenic CO2: Scenario dependence of the airborne fraction
[DE84-012079] 21 p3448 N84-31879

Computer implementation of a globally averaged model of the world carbon cycle
[DOE/NBB-0062] 23 p3793 N84-34055

CARBON DIOXIDE

Effects of approximate radiation treatments used in the climate models on the clear sky thermal radiation flux and its perturbation due to CO2 increase
[DOE/ER-60023/1] 01 p0104 N84-10674
Direct biological effects of increased atmospheric carbon dioxide levels
[PB83-224360] 01 p0115 N84-10749
Role of the oceans in the carbon cycle
[DE83-015530] 02 p0258 N84-11688
Molecular photoionization studies
[DE83-014283] 02 p0291 N84-11905
Advanced technologies for the recovery, disposal, and reuse of carbon dioxide for atmospheric control
[DE83-016371] 03 p0347 N84-12256
Development of a data base for carbon dioxide releases resulting from conversion of land to agricultural uses
[DE83-015726] 03 p0402 N84-12626
Inventory of numeric data for carbon dioxide research
[DE83-017571] 03 p0406 N84-12657
Techniques to extend ozonesonde temperature data to the mesopause
[DE84-002749] 05 p0705 N84-14623
Evaluation of CO2 and CO dopants in hydrogen to reduce hydrogen permeation in the Stirling engine heater head tube alloy CG-27
[NASA-TM-83535] 06 p0805 N84-15246
Response to W. W. Kellogg carbon dioxide and climatic change: Implications for mankind's future
[DE84-002723] 06 p0882 N84-15737
Variable inhibition by falling CO2 of hypoxic ventilatory response in man
[AD-A130658] 06 p0887 N84-15768
Some issues related to evolution of planetary atmospheres 06 p0939 N84-16103
Impact ionization effects on Pioneer Venus Orbiter 06 p1116 N84-17270
Thermophysical properties of gaseous carbon dioxide/water mixtures
[PB84-125226] 08 p1127 N84-17330
Can we delay a greenhouse warming
[DE84-003390] 08 p1183 N84-17703
Advanced air revitalization system testing
[NASA-CR-166540] 08 p1205 N84-17855
Electrochemical carbon dioxide concentrator subsystem development
[NASA-CR-166538] 08 p1205 N84-17857
Effects of systematic errors on the mixing ratios of trace gases obtained from occulation spectra
[NASA-CR-175371] 08 p1231 N84-18046
Accurate evaluation of homogenous and nonhomogeneous gas emissivities
[NASA-CR-173307] 09 p1277 N84-18340
Guide to the bibliographic format used by the Carbon Dioxide Information Center
[DE84-004109] 09 p1280 N84-18361
Flight tests of instrumentation for airborne carbon dioxide flux measurement
[AD-A135856] 09 p1342 N84-18767
Diffusion of gases in porous solids: Simulations and measurements
[DE84-004146] 10 p1494 N84-19771
An analysis of concepts for controlling atmospheric carbon dioxide
[DE84-004203] 10 p1532 N84-20033
Relationship between global fossil-fuel consumption and the concentration of carbon dioxide in the atmosphere, part 1
[PB84-123413] 10 p1532 N84-20036
Turbulent exchange of carbon dioxide, water vapor, heat and momentum over crop surfaces 10 p1538 N84-20079
Atlas of high resolution infrared spectra of carbon dioxide
[NASA-TM-85764] 10 p1576 N84-20325
Vegetation response to carbon dioxide research plan
[DE84-006219] 11 p1676 N84-20934
Relationship between global fossil-fuel consumption and the concentration of carbon dioxide in the atmosphere, part 2
[PB84-138841] 11 p1683 N84-20985
CO/sub 2 climate research plan
[DE84-005461] 11 p1688 N84-21008
Three dimensional global modeling of atmospheric CO2
[NASA-TM-85444] 12 p1847 N84-22043
A new parameterization of 15 micron radiative transfer for a GCM 12 p1858 N84-22105
Carbon cycle research plan
[DE84-006221] 12 p1861 N84-22124
NOAA program for data analysis for the first detection of CO/sub 2 induced-climate change
[DE84-006509] 12 p1861 N84-22125
Global energy and CO2-induced climate change
[PB84-145895] 12 p1862 N84-22131
Global energy future and CO2 induced climate change: Executive summary
[PB84-145911] 12 p1862 N84-22133
Passive infrared ranging
[AD-A138066] 12 p1907 N84-22424
Adsorption and catalyzed reactions of CO and CO2 on graphite surfaces
[DE84-006825] 14 p2123 N84-23725
Joint hearing on carbon dioxide and the greenhouse effect. Testimony presented to Subcommittee on Natural Resources, Agriculture Research and Environment and Subcommittee on Investigations and Oversight of the Science and Technology Committee, US House of Representatives
[DE84-007527] 15 p2372 N84-25230
Mode-to-mode vibrational energy transfer in (1)B2 aniline induced by collisions with CO/sub 2
[DE84-007197] 15 p2406 N84-25440
Analysis of carbon dioxide bands near 2.2 micrometers
[NASA-CR-173605] 16 p2462 N84-25779
Some comments on the atmospheric boundary layer over the ocean and its parameterization, appendix K 18 p2885 N84-28306
Evaluation of a carbon dioxide scrubber in a 2-lock recompression chamber
[AD-A141052] 19 p2969 N84-28816
Unbalanced infrared radiation and natural laser effect in atmospheres of Venus and Mars 19 p2975 N84-28858
Changing pattern of carbon dioxide emissions
[DE84-010088] 19 p3052 N84-29371
Spatial patterns of climate and climatic change. Part 1: Summary report, appendices 1-5
[DE84-010253] 19 p3059 N84-29408
Assessment of temporal dynamics of selected terrestrial carbon pools
[DE84-009850] 19 p3059 N84-29410
Investigation of multiple scattering contributions to the depolarization of light scattered by carbon dioxide and xenon in the critical region. Part 3: Comparison between theory and experimental results
[VDW-PUBL-287] 19 p3105 N84-29731
CO2 gamma 3 fundamental band 4.5 micrometers laser potential
[AD-A142536] 20 p3148 N84-29991
Resonance absorption of narrow-band laser radiation by atmospheric gases 20 p3225 N84-30493
Trace constituents measurements deduced from spectrometric observations onboard Spacelab
[AERONOMICA-ACTA-A-286-1984] 20 p3239 N84-30565
Response to W. W. Kellogg's Carbon Dioxide and Climatic Change
[DE84-010986] 20 p3241 N84-30577
Identification and preliminary characterization of global water resource issues which may be affected by CO2-induced climate change
[DE84-011127] 20 p3248 N84-30604
Reduction of CO2 to methanol and methane by photo and dark reactions on semiconductor electrodes
[PB84-214360] 21 p3363 N84-31334
Humidity/cloud-radiation feedback on possible climatic perturbation due to fossil fuel utilization
[DE84-011895] 21 p3448 N84-31874
Atmospheric retention of anthrogenic CO2: Scenario dependence of the airborne fraction
[DE84-012079] 21 p3448 N84-31879
Inventory of numeric data for carbon dioxide research, revision 1
[DE84-013683] 21 p3449 N84-31881
Carbon-13 and proton nuclear magnetic resonance analysis of shale-derived refinery products and jet fuels and of experimental referee broadened-specification jet fuels
[NASA-CR-174761] 22 p3561 N84-32552

CARBON DIOXIDE CONCENTRATION

International carbon dioxide-related activities: The international organizations involved and US bilateral arrangements
[DE83-016013] 02 p0245 N84-11602
Response of the North American corn belt to climate warming, CO2
[DE83-017873] 04 p0564 N84-13721
Commentary on the recent CO2-climate controversy
[DE83-016367] 04 p0565 N84-13722
Atmospheric retention of anthropogenic CO2: Scenario dependence of the airborne fraction
[DE83-016854] 04 p0565 N84-13723
Carbon dioxide sensor technology
[AD-A133688] 05 p0716 N84-14690
Preprototype SAWD subsystem
[NASA-CR-171760] 10 p1553 N84-20177
Changing climate
[PB84-148576] 12 p1862 N84-22135
Development of temperature-, velocity- and concentration-profiles in a curved combustor 15 p2292 N84-24757
The carbon dioxide research plan, a summary
[DOE/ER-0178] 16 p2528 N84-26228
The problem of climate and climate variations
[WCP-72] 18 p2886 N84-28312
Carbon dioxide emissions from fossil fuels: A procedure for estimation and results for 1950 - 1981
[DOE/NBB-0036] 19 p3052 N84-29365
Trace constituents measurements deduced from spectrometric observations onboard Spacelab
[AERONOMICA-ACTA-A-286-1984] 20 p3239 N84-30565
Response to W. W. Kellogg's Carbon Dioxide and Climatic Change
[DE84-010986] 20 p3241 N84-30577
Atmospheric retention of anthrogenic CO2: Scenario dependence of the airborne fraction
[DE84-012079] 21 p3448 N84-31879
CO2 forecasting and control: A mathematical approach
[DE84-013454] 21 p3449 N84-31882
Geophysical monitoring for climatic change Number 11,
[PB84-181841] 21 p3449 N84-31883
An analysis of possible future atmospheric retention of fossil fuel CO-2
[DOE/OR-21400/1] 23 p3793 N84-34054
Historical carbon dioxide: Abundances derived from the Smithsonian spectrobolograms
[DOE/NBB-0063] 23 p3793 N84-34056
Seasonal climate scenarios for Europe and North America in a high-CO2, warmer world
[DOE/EV-10098/5] 23 p3801 N84-34104
Development of a global model for atmospheric backscatter at CO2 wavelengths 24 p3924 N84-34838
WMO project on research and monitoring of atmospheric CO2. Report of the WMO(CAS) Meeting of Experts on the CO2 Concentrations from Pre-Industrial Times to I.G.Y.
[REPT-1] 24 p3934 N84-34900

CARBON DIOXIDE LASERS

Laser surface hardened patterns for increased ballistic protection
[AD-A130385] 01 p0043 N84-10277
High-repetition-rate amplification of 18 (SIGMA) micron radiation
[DE83-012782] 01 p0087 N84-10569
Experimental determination of transport coefficients in CO2 laser gas mixtures
[DE83-013638] 01 p0088 N84-10572
On the CO2 laser generated channel conductivity and electron beam ionization of ammonia
[AD-A131591] 02 p0225 N84-11478
A novel 15.9-micron source
[DE83-015234] 02 p0227 N84-11490
Frequency stabilization of carbon dioxide lasers
[FOA-C-30326-E1] 02 p0228 N84-11496
A survey of electric laser codes
[AD-A132352] 04 p0540 N84-13551
A frequency stabilization and trigger control unit for hybrid TEA-CO2 lasers
[AD-A132247] 04 p0540 N84-13552
Laser-plasma interaction at 10.6 microns
[DE84-001038] 04 p0541 N84-13560
Development of recuperator manufacturing techniques, phase 2
[AD-A132448] 04 p0544 N84-13581
Calculation of performance of an RF-excited transverse flow CO2 laser
[DFVLR-FB-83-06] 05 p0687 N84-14514
A computer model for an imaging coherent laser radar
[FOA-C-30341-E] 06 p0826 N84-15388
Data reduction programs for a laser radar system
[NASA-CR-173152] 07 p0992 N84-16430
Pulsed heterodyne CO2 laser/scanner system. Volume 1: Assembly report
[AD-A135059] 08 p1164 N84-17577
Pulsed heterodyne CO2 laser/scanner system. Volume 2: Operating instructions
[AD-A135060] 08 p1164 N84-17578
Measurement of heat pump processes induced by laser radiation
[NASA-CR-168324] 09 p1319 N84-18620
Investigation of cold cathode and RF excitation for long life CO2 waveguide lasers
[AD-A136088] 09 p1323 N84-18643
Manufacturing Methods and Technology (MM&T) program. 10.6 micrometer carbon dioxide TEA (Transversely Excited Atmospheric) lasers
[AD-A137490] 10 p1500 N84-19805

Development of CO2 and KrF gas lasers as drivers for inertial confinement fusion
[DE84-004329] 10 p1501 N84-19810
Precision measurements of line positions and profile at a wavelength of ten micrometers — infrared spectroscopy
[MPE-180] 10 p1579 N84-20346
Laser chemical vapor deposition
[AD-A137827] 11 p1683 N84-20850
Millimeter and submillimeter wave research: Spectroscopy, energy transfer and techniques
[AD-A137884] 11 p1683 N84-20853
NASA/MSFC ground-based Doppler lidar nocturnal boundary layer experiment (Noblex)
[NASA-CR-3778] 11 p1731 N84-21293
Microwave excitation of a CO2 laser
[AD-A138057] 12 p1820 N84-21862
Study of a tunable CO2/N2O medium pressure waveguide laser
[AD-A138076] 12 p1820 N84-21863
Possibility of using pulsed CO2 lasers for radiation scattering diagnostics in Tokamak plasmas
[BLL-CTO-2199-(9091.9F)] 12 p1909 N84-22437
Miniaturized pulsed CO2 laser with sealed electron source 13 p1969 N84-22782
Proof of principle experiment for a coherent CO2 waveguide laser array
[AD-A139121] 14 p2150 N84-23881
Coherent laser radar remote sensing
[AD-A139448] 14 p2151 N84-23885
Theoretical and experimental investigations for the construction of a continuous, RF-excited waveguide CO2-laser with high frequency tunability and high output power
[IPF-83-1] 14 p2151 N84-23869
Precise measurements of bistability in a CO/sub 2 laser with intracavity saturable absorber
14 p2238 N84-24431
Model calculations for a CO2 mixing laser with screen nozzle
[DFVLR-FB-83-41] 15 p2339 N84-25039
CO-2 laser heating of silicon and applications
[DE84-006273] 15 p2339 N84-25042
Laser-induced decomposition of some allyl halides
[AD-A140426] 16 p2463 N84-25786
Design of a CO2 laser transceiver package for space-to-space optical communication
[BLEV-R-84.225] 16 p2482 N84-25913
Characteristics of a plasma-injection-controlled discharge for CO2 mixing lasers
[MRL-R-922] 16 p2497 N84-26020
Imaging by active laser methods
[ESA-TT-804] 16 p2497 N84-26022
Laser ranging technology for space to space applications. Volume 2: High stability CO2-laser for range rate finder development of critical technologies
[ESA-CR(P)-1877] 17 p2673 N84-27035
Cutting of fiber reinforced polymers with a CW CO-2 laser: An experimental study
[FOA-C-20527-D9] 19 p3030 N84-29220
Calculation of the performance of an RF excited transverse flow CO2 laser
[ESA-TT-832] 19 p3030 N84-29221
CO2 gamma 3 fundamental band 4.5 micrometers laser potential
[AD-A142536] 20 p3148 N84-29991
Theoretcial studies of solar-pumped lasers
[NASA-CR-173833] 20 p3192 N84-30274
Studies of CO2 laser interactions with plasma
[DE84-012485] 20 p3307 N84-31004
A blackbody-pumped CO2-N2 transfer laser
[NASA-TP-2347] 21 p3408 N84-31617
Operational performance of the Antares alignment system
[DE84-012659] 21 p3410 N84-31632
Improving energy performance and duty time of production process CW electrical ionization CO2 lasers by using five-component lasing mixtures
21 p3481 N84-32065
Study of emission spectrum of tea CO2 lasers with intracavity absorber 21 p3486 N84-32094
Waveguide CO2 laser with 7.5 W power rating
21 p3487 N84-32098
Practical problems with CO2 laser radar tests
[RAE-TRANS-2113] 22 p3600 N84-32804
Laser furnace technology for zone refining
[NASA-TM-86459] 22 p3600 N84-32805
A compact frequency-stable pulsed CO-2 laser
[AD-A143216] 22 p3600 N84-32806
Using an airborne CO2 CW laser for free stream airspeed and windshear measurements 24 p3850 N84-34417
High speed laser formation of small diameter apertures in printed circuit board blanks 24 p3874 N84-34547
A CO2 laser transceiver package with Gbit/sec capability for space-to-space communications
24 p3905 N84-34731
The concept of the Low Intermediate Frequency Translation Loop (LIFTL) and its application on a CO2 laser intersatellite data link system
24 p3905 N84-34733
The use of TEA and multiatmosphere CO2 lasers in active remote sensing 24 p3907 N84-34749
Millimetre waves: A problem for the future
24 p3915 N84-34790

CARBON DIOXIDE REMOVAL
Design guidelines for carbon dioxide scrubbers
[AD-A130459] 01 p0117 N84-10761
Preprototype SAWD subsystem
[NASA-CR-171780] 10 p1553 N84-20177

CARBON DIOXIDE TENSION
NT HYPERCAPNIA

CARBON DISULFIDE
Electronic spectra of condensed phase under shock conditions
[AD-A137531] 11 p1652 N84-20785
Experimental study of the fluxes of reduced sulfur gasses from a salt water marsh
[PB84-156318] 14 p2181 N84-24064

CARBON FIBER REINFORCED PLASTICS
Fractographic analysis of failures in CFRP
01 p0033 N84-10204
Monitoring of defect progression by acoustic emission
01 p0033 N84-10206
Experimental investigation of delaminations in carbon fibre composite 01 p0033 N84-10209
The effect of damage on the tensile and compressive performance of carbon fibre laminates
01 p0034 N84-10213
Behavior of idealized discontinuities and impact damages in CFRP under fatigue loading
01 p0034 N84-10214
The influence of fabrication flows on the static and dynamic behavior of structures made of carbon-resin composites 01 p0034 N84-10215
The significance of defects and damage in composite structures 01 p0035 N84-10219
In-service NDI of composite structures: An assessment of current requirements and capabilities
01 p0035 N84-10220
Defect occurrences in the manufacture of large CFC structures and work associated with defects, damage and repair of CFC components 01 p0035 N84-10223
Ballistic impact on carbon fiber reinforced epoxy composites
[FOA-C-20497-F9] 02 p0189 N84-11227
An X-ray radiography study of delamination growth in notched carbon/epoxy laminates
[FFA-TN-1983-29] 03 p0386 N84-12516
An interactive computer program for analysis of ultrasonic modulus data on anistropic materials
[NPL-DMA(A)-68] 03 p0388 N84-12526
Characterization of carbon fiber composites using acousto-ultrasonic techniques
[AD-A132305] 04 p0506 N84-13317
The effect of humidity on the thermomechanical behavior of carbon fiber reinforced epoxy resins
[MBB-BB-526-82-OE] 05 p0645 N84-14241
Recognizing defects in carbon-fiber reinforced plastics
[NASA-TM-76947] 06 p0786 N84-15143
In-plane shear properties of a fabric-CFRP/aluminum-honeycomb sandwich construction
[NAL-TR-773] 09 p1275 N84-18327
Integrity control of carbon fiber reinforced plastics structural elements, phase 1 report — space applications
[TB-TS-11-01/82-A] 09 p1289 N84-18416
Long term in-service evaluation of CFRP components (spoilers) on Airbus A300, phase 1
[BMFT-FB-W-83-028] 10 p1429 N84-19344
Contribution to the properties of carbon fiber reinforced composites — structural mechanics
[DFVLR-MITT-83-16] 10 p1452 N84-19480
Damage mechanisms in damaged CFRP laminates
10 p1452 N84-19483
Calculation methods for fiber reinforced components
10 p1452 N84-19484
Review report of the third year's activities on the study survey of advanced materials — for spacecraft and launch vehicles
[R878] 12 p1790 N84-21675
High performance composites and adhesives for V/STOL aircraft
[AD-A139168] 14 p2119 N84-23702
Effect of space exposure of some epoxy matrix composites on their thermal expansion and mechanical properties (A0138-8) 15 p2272 N84-24640
Exposure to space radiation of high-performance infrared multilayer filters and materials technology experiments (A0056) 15 p2277 N84-24678
The mechanical properties of carbon fibre with glass fibre reinforced plastics 15 p2284 N84-24710
Carbon structures on the wing of the regional transport plane ATR-42
[SNIAS-832-111-113] 16 p2448 N84-25704
Investigation of the RF properties of carbon fibre composite materials
[AD-A140261] 16 p2461 N84-25774
Experimental investigation of delaminations in carbon fiber composite
[MBB-FE-214/S/PUB/107] 16 p2562 N84-26434
Liquid crystal polyester-carbon fiber composites
[NASA-CR-172323] 17 p2618 N84-26754
Residual curing stress of carbon-resin composites
[ONERA-RT-6/3521-M] 20 p3147 N84-29980
Physical aging and its influence on the reliability of network epoxies and epoxy-matrix composites
[NASA-CR-173870] 21 p3356 N84-31289
The mechanical properties of carbon fibre with glass fibre hybrid reinforced plastics 21 p3357 N84-31292
An evaluation of the Boeing wedge test for the assessment of CFRP surface pretreatment
[AD-A144050] 23 p3711 N84-33526
USSR report: Materials science and metallurgy, no. 94
[JPRS-85025] 24 p3868 N84-34512
Experimental study of stress-deformed state of three-layer shells made with anisotropic high-module composite materials 24 p3868 N84-34514
An approach for estimating the impact of carbon-reinforced plastic 24 p3868 N84-34515
Influence of natural exposure in space on physical-mechanical properties of carbon reinforced plastic 24 p3872 N84-34536
Fracture mechanism of carbon and boron reinforced plastics with shear between layers
24 p3872 N84-34539

CARBON FIBERS
Irradiation effects on the mechanical properties of composite organic insulators
[DE83-014703] 01 p0032 N84-10202
Some trends in airship technology developments
[AGARD-R-717] 03 p0314 N84-12050
Development of instrumentation for monitoring carbon fiber emission
[PB83-233726] 03 p0378 N84-12460
Economic production of aircraft structures made of fiber reinforced materials
[MBB-UT-23-82-OE] 05 p0625 N84-14109
Mechanical property characterization of F-100/934 graphite-epoxy composite material
06 p0928 N84-16031
Mesophase behavior fundamental to the processing of carbon-carbon composites
[AD-A134283] 07 p0968 N84-16270
Composite structural materials
[NASA-CR-173259] 08 p1122 N84-17293
Determination of characteristic values for fiber reinforced materials — structural mechanics
10 p1452 N84-19481
Properties of carbon fibers with various coatings
[NASA-TM-77027] 10 p1464 N84-19563
Preliminary experiments with a carbon fiber tuft cathode
[DE84-006296] 12 p1813 N84-21820
Effect of fatigue and thermal loads on silicon carbon fiber reinforced glass matrix composites
[DE84-007464] 14 p2121 N84-23710
Composite materials: The user and the producer
[SNIAS-832-111-108] 16 p2461 N84-25772
The S-Web technique for high-speed growth of Si sheets 18 p2937 N84-28629
Composite materials with aluminum matrix reinforced with carbon fibers 24 p3872 N84-34537

CARBON ISOTOPES
NT CARBON 12
NT CARBON 13
NT CARBON 14

CARBON MONOXIDE
Investigation of coherent anti-Stokes Raman scattering measurements in carbon ablation experiments
[AD-A130578] 01 p0036 N84-10230
Recent advances in EPA's (Environmental Prog monitoring and methods development research
[PB83-231209] 01 p0115 N84-10743
N(2) and CO vibrational CARS and h(2) rotational CARS spectroscopy of CH(4)-N(2)O flames
[AD-A132234] 04 p0493 N84-13238
Effect of carbon monoxide (CO) on firefighters
04 p0512 N84-13357
Photon-stimulated ion desorption from condensed CO and N2
[AD-A133925] 05 p0647 N84-14254
Comparison of autoionization and photoelectron spectra of CO
[AD-A133902] 05 p0647 N84-14256

Theoretical studies in molecular fragmentation: Processes, energetics and diagnostics
[AD-A134008] 05 p0743 N84-14884
Carbon monoxide in the atmospheres of the terrestrial planets 05 p0764 N84-15011
Carbon monoxide fourth positive ultraviolet airglow emissions on Venus 05 p0764 N84-15015
Evaluation of CO2 and CO dopants in hydrogen to reduce hydrogen permeation in the Stirling engine heater head tube alloy CG-27
[NASA-TM-83535] 06 p0805 N84-15246
Neurobehavioral effects of carbon monoxide (CO) exposure in humans protocol 1
[AD-A133891] 06 p0888 N84-15774
Photoelectron studies of resonant multiphoton ionization of CO via the A-1 Pi state
[DE83-008535] 06 p0916 N84-15956
An analysis of carbon monoxide emissions as a function of ambient temperature and vehicle parameters
[PB84-103829] 08 p1167 N84-17509
Turbulence and mass motion in galactic molecular clouds 08 p1244 N84-18129
Emissions and efficiency of agricultural diesels using low-proof ethanol as supplement fuel
[DE84-003931] 09 p1325 N84-18659
The fluctuation spectrum of molecular clouds — interstellar matter 09 p1408 N84-19201
Metal-support interactions: Their effects upon adsorption, electronic, and activity/selectivity properties of cobalt in CO hydrogenation
[DE83-013012] 10 p1457 N84-19516
Molecular clouds and galactic spiral structure 10 p1596 N84-20459
Development of catalysts for the utilization of carbon monoxide
[DE84-005475] 11 p1629 N84-20659
A study of personal exposure to carbon monoxide in Denver, Colorado
[PB84-146125] 12 p1886 N84-22161
Organometallic chemistry of weakly solvated transition metal cations
[DE84-006987] 13 p1958 N84-22726
Adsorption and catalyzed reactions of CO and CO2 on graphite surfaces
[DE84-006625] 14 p2123 N84-23725
CO + H/sub 2 reaction over nitrogen-modified iron catalysts
[DE84-009046] 15 p2288 N84-24727
Mechanistic studies related to the metal catalyzed reduction of carbon monoxide to hydrocarbons
[DE84-007963] 15 p2288 N84-24729
Stoichiometric CO reduction by supported metal carbonyls
[PB84-175025] 16 p2474 N84-25862
Vibrational and rotational excitation of CO in comets. Part 1: Non-equilibrium calculations. Part 2: Results of the calculation for standard bright comet, comet Iras-Araki-Alcock and comet Halley
[NASA-TM-86122] 16 p2579 N84-26545
W3 North: Far-infrared and radio molecular observations
[NASA-TM-85961] 17 p2774 N84-27615
Fundamental research for production of high polymers on synthesis gas basis
[BMFT-FB-T-84-075] 19 p3001 N84-29016
Pulsed-laser atom-probe studies of surface chemical reactions
[DE84-012811] 20 p3151 N84-30007
Promotion effects on the synthesis of higher alcohols
[DE84-009916] 20 p3166 N84-30109
Sampling report for the study of personal CO (carbon monoxide) exposure
[PB84-181957] 20 p3239 N84-30560
Trace constituents measurements deduced from spectrometric observations onboard Spacelab
[AERONOMICA-ACTA-A-286-1984] 20 p3239 N84-30565
Crystallite size and support effects on CO hydrogenation reactions
[DE84-012474] 21 p3360 N84-31314
Vibrational spectra of CO on Ni(100) studied by infrared emission spectroscopy
[DE84-009246] 21 p3362 N84-31327
Field surveys of carbon monoxide in commercial settings using personal exposure monitors
[PB84-211291] 22 p3599 N84-32797
HII regions in the outer galaxy 23 p3838 N84-34345

CARBON MONOXIDE LASERS
A survey of electric laser codes
[AD-A132352] 04 p0540 N84-13551
Microwave discharge in a supersonic flow for the excitation of a gas dynamic CO laser
[DFVLR-FB-83-21] 07 p1011 N84-16558

CARBON MONOXIDE POISONING
Effect of carbon monoxide (CO) on firefighters 04 p0512 N84-13357
Dependence of evolution of toxic gases on burning conditions 04 p0514 N84-13377

CARBON STARS
Problems in the spectroscopy of cool carbon stars 15 p2422 N84-25549
Origin of amorphous interstellar grains 16 p2571 N84-26503
Neutral carbon in the Egg Nebula (AFGL 2688)
[NASA-TM-84360] 16 p2574 N84-26518

CARBON STEELS
NT LOW CARBON STEELS
Cathodic protection in simulated geothermal environments
[DE83-013690] 01 p0045 N84-10291
Environmental crack-growth-measurement techniques
[DE83-900734] 01 p0097 N84-10630
The effects of specimen size, specimen geometry and data analysis procedures on ductile crack growth resistance curves
[AERE-R-10906] 01 p0098 N84-10638
Testing of epoxy-phenolic coating for lining carbon steel pipe
[DE84-000073] 04 p0507 N84-13322
Aspects of damping of sonic vibrations due to impact loading in plate steels
[BLL-M-35295-(5828.4)] 06 p0908 N84-15895
Fatigue process of hard steels 07 p0983 N84-16368
Superplastic bonding and ultrahigh carbon steel laminated composites
[AD-A137807] 11 p1627 N84-20651
Some aspects of the corrosion of iron in alkaline solutions and associated fundamental problems
[BLL-T6234/BG/LRS/LRST677/83] 12 p1795 N84-21707
Niobizing carbon steels
[BLL-M-35502-(5828.4)] 12 p1795 N84-21710
Carbide formation and fracture of high carbon steel
[AD-A138519] 12 p1798 N84-21730
Prevention of stress-corrosion cracking in nuclear waste storage tanks
[DE84-001410] 14 p2128 N84-23758
Corrosion of carbon steel in oxidizing caustic solutions
[DE84-000209] 15 p2296 N84-24792
Stress corrosion resistance of structural steels in high chloride environments
[EUR-7435] 17 p2622 N84-26781
Dependence of realizability of selective mass transfer during friction of aluminum bronzes against steel on composition of lubricating fluid 17 p2641 N84-26901
Dependence of realizability of selective mass transfer during friction of tin bronzes against steel in hydraulic system mechanisms on concentration of alloying elements 17 p2642 N84-26902
Cladding of carbon steel with stainless steel
[BMFT-FB-T-84-030] 18 p2816 N84-27877
Directional growth of pearlite in Fe-C eutectoid alloys
[DE84-007368] 20 p3156 N84-30042

CARBON TETRACHLORIDE
Niobizing carbon steels
[BLL-M-35502-(5828.4)] 12 p1795 N84-21710
Locating and estimating air emissions from sources of carbon tetrachloride
[PB84-200625] 22 p3620 N84-32936

CARBON TETRACHLORIDE POISONING
Toxicology of tetrachloroethylene
[MBL-1983-3] 12 p1866 N84-22159

CARBON TETRAFLUORIDE
High-repetition-rate amplification of 16 (SIGMA) micron radiation
[DE83-012782] 01 p0087 N84-10569

CARBON 12
Stable isotope studies
[DE84-002436] 10 p1577 N84-20332

CARBON 13
Evaluation of a laser-based photoacoustic spectrometer in measurement of stable-isotope ratios
[DE83-014628] 01 p0088 N84-10574
High-resolution solid-state (13)C NMR study of the templating cations in tetrapropylammonium fluoride silicalite: The effect of steric interactions
[DE83-011706] 06 p0925 N84-16013
Stable isotope studies
[DE84-002436] 10 p1577 N84-20332
Ultraviolet light absorbers having 2 different chromophors in the same molecule
[DE84-011279] 20 p3150 N84-30000

CARBON 14
Radioactivites in returned lunar materials and in meteorites
[NASA-CR-171710] 02 p0308 N84-12018
Radioactivities in returned lunar materials and in meteorites
[NASA-CR-175347] 07 p1090 N84-17089

CARBON-CARBON COMPOSITES
Theoretical basis for design of thermal-stress-free fasteners
[NASA-TP-2226] 04 p0548 N84-13614
First investigations on a wrapped fiber blanket insulation with massive spacers consisting of carbon fiber composite — ducts
[JUEL-1840] 05 p0648 N84-14247
Mesophase behavior fundamental to the processing of carbon-carbon composites
[AD-A134283] 07 p0968 N84-16270
Disclinations in carbon-carbon composites
[AD-A135248] 08 p1122 N84-17295
Creep of carbon yarns and composites at high temperature
[AD-A138143] 12 p1790 N84-21671
Axial test methods development for 3-D cylindrical-weave carbon-carbon composite materials
[AD-A138221] 12 p1790 N84-21672
Mechanical behavior of carbon-carbon composites
[NASA-CR-174767] 24 p3878 N84-34575

CARBONACEOUS CHONDRITES
NT ALLENDE METEORITE
High-temperature inclusions in the Murchison meteorite 11 p1755 N84-21454

CARBONACEOUS MATERIALS
NT PEAT
Mesophase behavior fundamental to the processing of carbon-carbon composites
[AD-A134283] 07 p0968 N84-16270
Quenched Carbonaceous Composite (QCC): A likely candidate for interstellar grains 16 p2571 N84-26501
Quenched Carbonaceous Composite (QCC): A likely candidate for interstellar grains 18 p2949 N84-28699

CARBONACEOUS ROCKS
NT COAL
Conductivity mapping of underground flow channels and moisture anomalies in carbonate terrain using electromagnetic methods
[DE84-004098] 08 p1178 N84-17677

CARBONATES
NT CALCITE
NT DOLOMITE (MINERAL)
NT LEXAN (TRADEMARK)
NT POLYCARBONATES
NT SODIUM CARBONATES
Investigation of the electrochemical formation of Li-C intercalation compounds
[AD-A130879] 01 p0037 N84-10233
Development of molten carbonate fuel cell power plant technology
[DE84-002367] 10 p1487 N84-19720
Archean crust-mantle geochemical differentiation 11 p1680 N84-20966
Cathode materials development for carbonate fuel cells
[DE84-010033] 15 p2363 N84-25179
Development of molten carbonate fuel cell technology
[DE84-004856] 15 p2364 N84-25183
Advanced fuel cell development
[DE84-008964] 18 p2834 N84-27994
Molten carbonate fuel cell cathode development
[DE84-012101] 21 p3395 N84-31544
Microfacies, depositional environments and diagenesis of the Amapa carbonates (Paleocene - Middle Miocene) Foz Do Amazonas Basin, offshore northeast Brazil 21 p3439 N84-31817
Molten carbonate fuel cell performance model update
[DE84-012932] 22 p3589 N84-32733

CARBONIC ACID
Impedance and ellipsometer measurements of lithium electrodes in propylene carbonate solutions
[DE84-003922] 07 p0998 N84-16475

CARBONYL COMPOUNDS
Stratospheric concentration of nitric acid, ozone and sulphurous carbonyl: Measurement of nitric acid absorption in the Q branch of the v4 band as a function of temperature
[AD-B071596] 17 p2724 N84-27336

CARBORANE
Cyclic and high polymeric phosphazenes as carrier molecules for carboranyl, metallo, or bioactive side groups
[AD-A135656] 09 p1288 N84-18407
Carboranylmethylene-substituted phosphazenes and polymers thereof
[NASA-CASE-ARC-11370-1] 13 p1962 N84-22750

CARBOXYHEMOGLOBIN TEST
Study of biological samples obtained from victims of MGM Grand Hotel fire 04 p0514 N84-13374

US-Japan cooperative research on evaluation of toxicity 04 p0514 N84-13375
CARBOXYLATION
Adsorption and catalyzed reactions of CO and CO2 on graphite surfaces
[DE84-006625] 14 p2123 N84-23725
CARBOXYLIC ACIDS
NT ACRYLIC ACID
NT CITRIC ACID
NT FORMIC ACID
NT LYSINE
NT TRYPTOPHAN
Nuclear-medicine
[DE84-000346] 04 p0571 N84-13759
Metal phthalocyanine polymers
[NASA-CASE-ARC-11405-1] 18 p2817 N84-27884
CARBURIZING
Vacuum ionic carburisation
[BLL-OA-TRANS-3149-(6196.3)] 08 p1122 N84-17291
CARCINOGENS
The relevance of experimental animal studies to the human experience
[DE83-014053] 01 p0112 N84-10729
Evaluation of motor vehicle and other combustion emissions using short-term genetic bioassays
[PB83-233270] 01 p0112 N84-10731
Bioassay of particulate organic matter from ambient air
[PB83-239731] 02 p0267 N84-11754
Low cost acetylene terminated polymers
[AD-A140040] 19 p2998 N84-26996
Use of sperm enzymes to detect genotoxic agents
[AD-A142724] 20 p3260 N84-30691
CARCINOMA
U CANCER
CARDIAC VENTRICLES
Cardiac chamber volumes by echocardiography using a new mathematical method: A promising technique for zero-G use 09 p1358 N84-18874
Ventricular pre-excitation syndromes 11 p1699 N84-21084
CARDIOGRAMS
Contribution of cardiac mechanograms in the expert examination of flying personnel 11 p1700 N84-21089
CARDIOGRAPHY
NT BALLISTOCARDIOGRAPHY
NT ECHOCARDIOGRAPHY
NT ELECTROCARDIOGRAPHY
NT PHONOCARDIOGRAPHY
Cardiac chamber volumes by echocardiography using a new mathematical method: A promising technique for zero-G use 09 p1358 N84-18874
Non-invasive methods of cardiovascular exploration in aerospace medicine
[AGARD-AG-277(E)] 11 p1699 N84-21082
Reliability and efficiency of Kubicek rheographic method for monitoring cardiac output and stroke volume 20 p3253 N84-30644
Walking erect as a factor in development of arterial hypertension in primates 20 p3253 N84-30645
CARDIOLOGY
Non-invasive methods of cardiovascular exploration in aerospace medicine
[AGARD-AG-277(E)] 11 p1699 N84-21082
The contribution of nuclear medicine to cardiology 11 p1700 N84-21092
Influence of exam stress on cardiac function of students differing in level of physical activity 15 p2378 N84-25268
Response of cardiac rhythm to information load 18 p2898 N84-28384
Reliability and efficiency of Kubicek rheographic method for monitoring cardiac output and stroke volume 20 p3253 N84-30644
CARDIOVASCULAR SYSTEM
NT AORTA
NT ARTERIES
NT BLOOD VESSELS
NT CAPILLARIES (ANATOMY)
NT CARDIAC VENTRICLES
NT ERYTHROCYTES
NT HEMATOPOIESIS
NT HEMATOPOIETIC SYSTEM
NT LEUKOCYTES
NT LYMPHOCYTES
NT SYSTOLE
NT VEINS
Study of cardiovascular system during long-term spaceflights 02 p0259 N84-11694
Mathematical simulation of the cardiopulmonary system
[AD-A135460] 08 p1200 N84-17822
Biomedical Research Division significant accomplishments for FY 1983
[NASA-TM-85929] 10 p1545 N84-20128
Non-invasive methods of cardiovascular exploration in aerospace medicine
[AGARD-AG-277(E)] 11 p1699 N84-21082
Main electrocardiographic abnormalities in the medical examination of flying personnel 11 p1699 N84-21083
Ventricular pre-excitation syndromes 11 p1699 N84-21084
Continuous ECG monitoring by the Holter method 11 p1700 N84-21086
Contribution of standard X-ray to cardiovascular exploration during the clinical examination of flying personnel 11 p1700 N84-21088
Value of the lower body negative pressure test in aerospace medicine 11 p1701 N84-21096
Methods and major findings of cardiovascular exploration involving the human centrifuge 11 p1701 N84-21097
Cardiac swimming and a traditional rehabilitation program of bike-walk-jog; a comparison of maximal oxygen consumption and strength 12 p1864 N84-22148
Cardiovascular and respiratory responses to muscular activity during immersion in water at different temperatures
[AD-A138894] 14 p2185 N84-24094
A non-dimensional analysis of cardiovascular response to cold stress. Part 1: Identification of the physical parameters that govern the thermoregulatory function of the cardiovascular system
[AD-A138710] 15 p2380 N84-25285
Ultrasound visualization of cardiovascular systems 15 p2430 N84-25597
A mathematical model of the cardiovascular system under +Gz stress 16 p2537 N84-26290
Relationship between cardiovascular system response and adrenocortical glucocorticoid function on exposure to diffuse, low-intensity helium-neon laser emission 17 p2741 N84-27405
Cardiovascular reactions on orthostasis and weightlessness 17 p2744 N84-27424
A non-dimensional analysis of cardiovascular response to cold stress. Part 1: Identification of the physical parameters that govern the thermoregulatory function of the cardiovascular system
[AD-A138710] 17 p2745 N84-27429
Response of cardiac rhythm to information load 18 p2898 N84-28384
Medical clip
[NASA-CASE-LAR-12650-1] 18 p2899 N84-28388
The role of neural reflexes in control of the cardiovascular system during stress
[AD-A140936] 18 p2899 N84-28393
Response of the cardiovascular system to vibration and combined stresses
[AD-A142166] 19 p3066 N84-29450
The influence of cardiorespiratory fitness on the decrement in maximal aerobic power at high altitude
[AD-A142218] 19 p3066 N84-29452
Reliability and efficiency of Kubicek rheographic method for monitoring cardiac output and stroke volume 20 p3253 N84-30644
Walking erect as a factor in development of arterial hypertension in primates 20 p3253 N84-30645
Circadian pattern of simian functional parameters during hypokinesia and in the recovery period 20 p3253 N84-30650
Conference Grant for 2nd World Congress on Biomaterials
[AD-A143129] 21 p3454 N84-31915
Pharmacologic counter measures minimizing post-space flight orthostatic intolerance — bed rest, drug disposition, and physiological function
[NASA-CR-173861] 21 p3457 N84-31936
Fluid replacement during hypothermia
[AD-A143807] 23 p3810 N84-34159
CARET WINGS
Hypersonic static and dynamic stability. Part 2: Inviscid prediction methods for unsteady hypersonic flow 16 p2442 N84-25664
CARGO
NT AIR CARGO
Redesign of cargo mobility containers
[AD-A137396] 10 p1424 N84-19312
Airport activity statistics of certificated route air carriers
[AD-A137418] 10 p1424 N84-19313
Adjustable self-releasing hook
[AD-D011082] 22 p3604 N84-32834
A heuristic method for the problem of the distribution of perishable cargos
[INPE-3133-PRE/524] 23 p3832 N84-34309
CARGO AIRCRAFT
NT C-5 AIRCRAFT
NT C-9 AIRCRAFT
NT C-130 AIRCRAFT
NT C-135 AIRCRAFT
NT C-140 AIRCRAFT
NT C-141 AIRCRAFT
Simulator study of flight characteristics of a large twin-fuselage cargo transport airplane during approach and landing
[NASA-TP-2163] 03 p0337 N84-12190
Antonov Bureau developing new STOL turbofan for use in far north 18 p2790 N84-27710
CARGO SHIPS
NT TANKER SHIPS
Reducing risk in seaways — around the British Isles 08 p1102 N84-17163
Detonation-and-flame arresters for gasoline-vapor recovery systems 15 p2431 N84-25600
Flashback flame arresters for fuel cargo tanks 15 p2431 N84-25601
CARGO SPACECRAFT
Krasnaya Zvezda on advantages of Cosmos-1443 modular spacecraft 05 p0633 N84-14161
Shuttle detached spacecraft
[AD-A143320] 22 p3541 N84-32417
CARIBBEAN REGION
Correlation of tectonic provinces of South America and the Caribbean region with MAGSAT anomalies 15 p2355 N84-25130
Development of alternative energy science and engineering in the Caribbean
[PB84-181106] 20 p3237 N84-30552
CARIBBEAN SEA
Optical means of measuring particle-sea interactions in the Caribbean Sea and Gulf of Mexico
[AD-A131290] 02 p0257 N84-11685
Analysis of SEASAT wind observations in the Gulf of Mexico and the Caribbean Sea
[PB84-131309] 09 p1350 N84-18824
Application of Magsat lithospheric modeling in South America. Part 1: Processing and interpretation of magnetic and gravity anomaly data
[E84-10115] 13 p2005 N84-23008
CARNOT CYCLE
Revised isothermal analysis program for Stirling engines
[DE83-017276] 03 p0384 N84-12504
CAROTENE
Chlorophyll and carotenoid pigments of prochloron (prochlorophyta) 10 p1544 N84-20119
CARRIER DENSITY (SOLID STATE)
Room temperature optical nonlinearities in GaAs multiple quantum wells 14 p2235 N84-24408
Effect of multifold trapping of carriers on transient photocurrent in amorphous semiconductors 17 p2635 N84-26860
Contribution to the low temperature study of MOS transistors (10K-77K)
[ENST-83E017] 19 p3113 N84-29781
CARRIER FREQUENCIES
Carrier recovery methods for a dual-mode modem: A design approach
[NASA-CR-173355] 10 p1432 N84-19360
Enhanced radio frequency carrier margin improvements for an array of receiving systems with unequal predetection signal-to-noise ratios 10 p1475 N84-19637
Description of a microwave system for the measurement of close to carrier AM and FM noise spectra
[LEOK-TR-1984-04] 20 p3176 N84-30168
CARRIER MOBILITY
NT ELECTRON MOBILITY
Electronic properties of semiconductor interfaces
[AD-A130745] 01 p0152 N84-11002
High field transport of free carriers at the Si-SiO2 interface
[AD-A135338] 08 p1235 N84-18071
Photoconductivity of alpha-Si-H in infrared range of spectrum 18 p2825 N84-27933
Quasi-Newton and multigrid methods for semiconductor device simulation
[DE84-008487] 19 p3112 N84-29773
Spray pyrolysis of cadmium sulfide/copper indium selenide cells
[DE84-004491] 20 p3235 N84-30537
Diffusion and electrical properties of sulfur implanted in gallium arsenide
[AD-A142405] 20 p3308 N84-31012
Modelling of transfer processes in monopolar semiconductor structures with submicron dimensions 21 p3381 N84-31453
Infrared absorption spectrum of free carriers in polar semiconductors
[DE84-013276] 22 p3667 N84-33248
CARRIER MODULATION
U MODULATION

CARRIER ROCKETS
U LAUNCH VEHICLES
CARRIER SYSTEMS
U WIRELESS COMMUNICATION
CARRIER TO NOISE RATIOS
Coupling of current and frequency-modulated noise in Gunn oscillators 17 p2636 N84-26865
CARRIER TRANSPORT (SOLID STATE)
Microcrystalline silicon growth for heterojunction solar cells
[NASA-CR-173750] 18 p2869 N84-28216
Drift mobilities by time-of-flight methods and time-dependent photottransport in the nanosecond regime in amorphous semiconductors
[DE84-014906] 22 p3686 N84-33241
Gallium arsenide field-effect transistor magnetic field studies
[AD-A144058] 23 p3742 N84-33721
CARRIER WAVES
A carrier recovery closed loop implementation in high velocity PSK modems by digital techniques — (feedback control)
[INPE-2822-PRE/376] 02 p0208 N84-11355
Estimation of the parameters of an unmodulated carrier signal disturbed by complex-multiplicative and additive Gaussian noise
[ESA-TT-737] 16 p2482 N84-25914
Coherent digital demodulation of a residual carrier signal using IF sampling 22 p3574 N84-32634
CARRINGTON ROTATION
U SOLAR ROTATION
CARTAN SPACE
Fatou theorem for the proper functions of invariant potential operators by a group of Cartan displacements 22 p3635 N84-33037
CARTESIAN COORDINATES
Numerical solution of the three-dimensional unsteady Euler equations
[AD-A132034] 03 p0425 N84-12783
IRIG standard for distributing interrange vector acquisition data
[AD-A133617] 06 p0793 N84-15170
The elements of the rotation matrices in terms of Rodriguez's parameters
[AD-A136550] 09 p1376 N84-18988
On the grid generation methods in harmonic mapping on plane and curved surfaces
[NASA-CR-172331] 12 p1893 N84-22327
Transient three-dimensional predictions of turbulent flows in cylindrical and cartesian coordinate systems 13 p1991 N84-22927
Application of the principal component method to trajectory estimation
[AD-P002951] 14 p2199 N84-24191
Computational Fluid Dynamics, volume 1
[VKI-LS-1984-04-VOL-1] 16 p2491 N84-25980
Asymptotic theory of separation flow 17 p2646 N84-26924
Effect of injection into boundary layer on flow of supersonic stream past oscillating cone 17 p2646 N84-26925
Application of recurrent formulas for solving main geodetic problems 18 p2861 N84-28166
CARTILAGE
Mechanical force and cartilage metabolism 23 p3808 N84-34147
CARTOGRAPHY
U MAPPING
CARTRIDGE ACTUATED DEVICES
U ACTUATORS
U EXPLOSIVE DEVICES
CARTRIDGES
NSI-1 Squib adapter development and final test report for usage on space shuttle gas sampler valve/bottle assembly 3270
[NASA-CR-171735] 08 p1161 N84-17556
CASCADE CONTROL
The use of singular value gradients and optimization techniques to design robust controllers for multiloop systems
[NASA-TM-85720] 02 p0277 N84-11815
Cascade Joule-Thomson refrigerators 06 p0821 N84-15354
Development of mechanically-stacked multijunction solar cell for concentrator applications
[DE84-008355] 15 p2363 N84-25177
CASCADE FLOW
The calculation of steady and unsteady transonic flow in cascades
[CUED/A-TURBO/TR-118] 01 p0002 N84-10016
Flow-field matrix solution for direct problem of flow along S1 relative stream surface employing non-orthogonal curvilinear coordinates and corresponding non-orthogonal velocity components
[AD-A131031] 01 p0079 N84-10512
Design and performance of a fixed, nonaccelerating, guide vane cascade that operates over an inlet flow angle range of 60 deg
[NASA-TM-83519] 05 p0626 N84-14120
An investigation of cascade energy density effects using classical trajectory simulations of sputtering by molecular ions
[AD-A132539] 05 p0743 N84-14880
A lower-upper factored implicit scheme for the numerical solution of the Euler equations applied to arbitrary cascades 06 p0780 N84-15111
Two dimensional condensing flow in transonic turbine cascades 06 p0841 N84-15484
Application of an inviscid-viscous interaction method to transonic compressor cascades 07 p0954 N84-16190
A viscid inviscid interaction procedure for two dimensional cascades 07 p0955 N84-16191
Design of transonic compressor cascades for minimal shock losses and comparison with test results 07 p0955 N84-16192
Flow trajectories, mixing and entropy fluxes in a turbine cascade 07 p0955 N84-16193
An experimental method for analyzing shock-boundary layer interactions in cascades 07 p0955 N84-16195
Aerodynamic computation method of airfoil cascades subjected to viscous flow 07 p0956 N84-16198
Effects of a skewed inlet end wall boundary layer on the 3-D flow field in an annular turbine cascade 07 p0956 N84-16202
Secondary flows and losses in a turbine cascade 07 p0956 N84-16203
Report of tests of a compressor configuration of DCA blading
[AD-A133350] 07 p1002 N84-16501
Computer program for evaluating the ives transformation in turbomachinery cascades, revision
[AD-A137064] 10 p1571 N84-20295
Potential flow through a cascade of alternately displaced circular bodies: The rod-wall wind tunnel boundary conditions
[NASA-TM-85750] 11 p1601 N84-20487
Analysis of inviscid and viscous flows in cascades with an explicit multiple-grid algorithm
[NASA-TM-83636] 13 p1925 N84-22527
Redesign and cascade tests of a supercritical controlled diffusion stator blade-section
[NASA-TM-83635] 13 p1926 N84-22533
Calculation of apparent masses in blade ring 13 p1971 N84-22793
Calculation of transonic flow in a linear cascade
[NASA-TM-83697] 15 p2255 N84-24539
Behavior of cascaded airfoils under conditions of high mean loading and flow unsteadiness
[AD-A139799] 15 p2263 N84-24582
The method of complex characteristics for design of transonic compressors 17 p2599 N84-26659
Long-time states of inverse cascades in the presence of a maximum length scale 17 p2668 N84-26999
Energy efficient engine: Low-pressure turbine subsonic cascade component development and integration program
[NASA-CR-165592] 18 p2795 N84-27738
Energy efficient engine high-pressure turbine supersonic cascade technology report
[NASA-CR-165567] 18 p2796 N84-27739
Secondary flow theory in straight and annular cascades 19 p3022 N84-29163
Experimental research on secondary flows in annular turbine cascades at the Von Karman Institute 19 p3022 N84-29165
Calculation of three dimensional viscous flows in annular cascades using parabolized Navier-Stokes equations 19 p3023 N84-29168
Aeroelasticity in turbomachine-cascades
[AD-A141905] 20 p3131 N84-29680
Two-dimensional and quasi three-dimensional experimental standard configurations for aeroelastic investigations in turbomachine-cascades
[AD-A141904] 20 p3196 N84-30297
Physics of ion sputtering
[DE84-011664] 21 p3495 N84-32150
Unsteady transonic flow in cascades
[NASA-TM-83780] 22 p3530 N84-32351
A linear aerodynamic analysis for unsteady transonic cascades
[NASA-CR-3833] 22 p3531 N84-32355
Report of tests of a compressor configuration of CD (Controlled Diffusion) blading
[AD-A143499] 22 p3604 N84-32832
Development of a design-oriented Navier-Stokes cascade analysis
[AD-A144594] 24 p3901 N84-34703
CASCADE RANGE (CA-OR-WA)
Application of Heat Capacity Mapping Mission data to regional geologic analysis for mineral and energy resource evaluation
[E84-10078] 07 p1021 N84-16625
Geochemical analyses, age dates, and flow-volume estimates for quaternary volcanic rocks, Southern Cascade Mountains, Washington
[DE84-007662] 15 p2368 N84-25211
Geological and geothermal investigation of the lower Wind River valley southwestern Washington Cascade Range
[DE84-012545] 21 p3431 N84-31771
Complete Bouguer gravity anomaly map, Cascade Mountains, Washington
[DE84-012548] 21 p3445 N84-31856
CASCADES (FLUID DYNAMICS)
U FLUID DYNAMICS
CASCODE MOSFET
U FIELD EFFECT TRANSISTORS
CASES (CONTAINERS)
NT ROCKET ENGINE CASES
Automatic sprinklers 04 p0510 N84-13348
SRB/FWC water impact: Flexible body loads test
[NASA-CR-171076] 19 p3020 N84-29147
Research study for effects of case flexibility on bearing loads and rotor stability
[NASA-CR-171147] 23 p3758 N84-33811
CASING
An analysis of the buckling of truncated or complete spherical shells under axial compressive loads 07 p0985 N84-16379
Dual clearance squeeze film damper
[NASA-CASE-LEW-13506-1] 13 p1932 N84-22562
New integrated circuit casing 18 p2918 N84-28504
CASKS
U BARRELS (CONTAINERS)
CASSEGRAIN ANTENNAS
Phase A study for a test satellite for propagation and transmission experiments in the 20/30 GHz frequency band
[BMFT-FB-W-83-009] 03 p0362 N84-12355
Deformable subreflector computed by geometric optics 04 p0519 N84-13407
Analysis of a Cassegrain antenna having a Gaussian illumination pattern
[REPT-S-147] 15 p2320 N84-24927
Synthesis of offset dual shaped subreflector antennas for control of Cassegrain aperture distributions
[AD-P003517] 21 p3385 N84-31485
High power K sub a -band transmitter for planetary radar and spacecraft uplink 22 p3572 N84-32625
Intermodulation product levels in flame-sprayed materials 22 p3573 N84-32629
CASSEGRAIN OPTICS
Study of multi-kilowatt solar arrays for Earth orbit applications
[NASA-CR-170939] 03 p0403 N84-12634
HRTS observations of the fine structure and dynamics of the solar chromosphere and transition zone 03 p0466 N84-13070
A computer program for point-surface microwave continuum observation
[REPT-S-141] 15 p2320 N84-24925
Optical analysis of Cassegrainian point focus concentrators 18 p2872 N84-28229
Preliminary concept of a 100-kilowatt miniaturized Cassegrainian concentrator solar array 19 p3047 N84-29332
CAST ALLOYS
Properties of grey cast iron treated with pulsating current during inoculation
[BLL-M-35118-(5828.4)] 01 p0040 N84-10252
The effect of technological parameters on the heterogeneity of continuously cast slab
[BLL-M-35095-(5828.4)] 01 p0042 N84-10271
Fracture-toughness testing of ductile cast irons
[DE83-010824] 01 p0046 N84-10294
Grinding of cast iron with wheels made of superhard materials
[CSIR-TRANS-1687] 01 p0056 N84-10368
Single specimen J-integral testing
[DE83-016069] 03 p0390 N84-12543
Concentration of sulphuric acid: Premature failure of Bamag pots
[MRL-R-885] 08 p1123 N84-17301
Influence of the base metal on the wear-resistance of high-strength cast iron
[BLL-M-35504-(5828.4)] 12 p1796 N84-21712
MRCA run-in floors 14 p2093 N84-23557
Statistical and vibratory fatigue limit characteristics of aluminum cast alloys 14 p2093 N84-23558
Economic riveting: Different bore qualities, fittings, connection elements 14 p2094 N84-23560

Welding of components made of the aluminum cast alloy A357 14 p2094 N84-23561
Successful utilization of economic, light aluminum-casted structures in airplane construction [VFW-31/83-O] 16 p2562 N84-26439
Environmental assisted fracture of cast and wrought steels in brine [DE84-011870] 20 p3158 N84-30058
Procedure for the electroplating of sintered materials containing carbide or cast alloys of tungsten, molybdenum, titanium or zirconium [BLL-RISLEY-TRANS-4557-(9091.9)] 22 p3551 N84-32484
Gas turbine engine design considerations as related to alloys of high critical element content 23 p3703 N84-33470
Trace elements in superalloys and the implications for recycling 23 p3705 N84-33484
Using recycled superalloys in precision casting 23 p3705 N84-33486
Influence of boundary volume structure on grain boundary relaxation of cast heat resistant nickel alloys 24 p3877 N84-34569
Application of quantitative microscopy to ceramics [NASA-TM-77420] 24 p3888 N84-34618

CASTING
NT CENTRIFUGAL CASTING
NT INVESTMENT CASTING
NT PROPELLANT CASTING
NT SLIP CASTING
Process development of making bearings and bushings from continuous-cast SAE 660 bronze alloy plate [DE83-014234] 01 p0057 N84-10374
Measures for the improvement of the continuous casting procedure (electromagnetic stirring) [BMFT-FB-T-83-138] 02 p0207 N84-11348
Aging degradation of cast stainless steel: Status and program [DE84-004018] 08 p1135 N84-17381
Chemical properties and film casting of radiation grafted ion-containing polymers [AD-A138551] 13 p1963 N84-22754
Cladding of carbon steel with stainless steel [BMFT-FB-T-84-030] 18 p2816 N84-27877
A mathematical model of the formation of powdered metal coatings on castings [BLL-M-35598-(5828.4)] 19 p2991 N84-28955
Organic materials for ceramic molding processes [NASA-TM-77438] 19 p2997 N84-28991
Utilization of amorphous metals in electric motors. Power systems technology program [DE84-009483] 19 p3018 N84-29136
Influence of direct current on temperature gradient in directionally solidifying ingot of alloy YuNDK35T5 [BLL-M-35684-(5828.4)] 22 p3553 N84-32495
MHD technology in aluminum casting 23 p3706 N84-33491
Low cycle fatigue behavior of conventionally cast MAR-M 200 AT 1000 deg C [NASA-TM-83769] 23 p3717 N84-33564
Clad cast steel strip [DE84-014245] 23 p3719 N84-33574
The potential for bulk undercooling as an industrial process 24 p3882 N84-34592
Porosity and environment 24 p3882 N84-34593
Solidification structures grown under induced flow and continuous casting of steel 24 p3883 N84-34599
Macrosegregation in aluminum alloy ingot cast by the semicontinuous direct chill method 24 p3883 N84-34600
A review of our present understanding of macrosegregation in ingots 24 p3883 N84-34601
Tape casting of Honeywell PZT type 3 powder [AD-A144215] 24 p3888 N84-34623

CASTING SOLVENTS
U PLASTICIZERS

CASTINGS
NT INGOTS
NT PROPELLANT CASTING
Electrochemical etching of titanium-alloy castings [DE84-000244] 04 p0501 N84-13266
Mechanical-property characterization of an electroslag-cast valve body of CF8M composition [DE84-002253] 05 p0655 N84-14309
Choice of a melting installation for aluminum alloy [BLL-OA-TRANS-3095-(6196.3)] 06 p0804 N84-15239
Alpha jet pylon 14 p2093 N84-23556
Ultrasonic inspection of internal defects in castings [VTT-201] 14 p2156 N84-23920
An investigation of chemically-induced improvement in saturation moisture characteristics of epoxies [NASA-TM-85826] 18 p2809 N84-27834
A procedure for determining the tempo at which alloys solidify [BLL-M-35642-(5828.4)] 22 p3553 N84-32497

CASUALTIES
Emergency handling of compressed air casualties [AD-A143598] 23 p3810 N84-34157

CATABOLISM
Hypnotics and air operations 11 p1697 N84-21072

CATALOGS
Publications from the Department of Plasma Physics and the Unit of Accelerator Technology: Index and abstracts, 1983 [TRITA-EPP-83-10] 17 p2766 N84-27564
Flight termination receiver catalog [AD-A144155] 24 p3894 N84-34657

CATALOGS (PUBLICATIONS)
NT ASTRONOMICAL CATALOGS
AgRISTARS documents tracking list report [E84-10030] 01 p0100 N84-10647
Catalog of the Oak Ridge National Laboratory Meteorological Tape Library [DE83-017493] 01 p0162 N84-11067
Documentation for the machine-readable version of the Fourth Cambridge Radio Survey Catalogue (4C) (Pilkington, Gower, Scott and Wills 1965, 1967) [NASA-TM-85456] 02 p0305 N84-12002
Documentation for the machine-readable version of the revised Catalogue of Stellar Rotational Velocities of Uesugi and Fukuda (1982) [NASA-TM-85457] 02 p0305 N84-12003
Source header list, supplement 1 [AD-A131800] 03 p0459 N84-13024
Natural hazards photograph catalog, key to geophysical records documentation no. 20 [PB83-250415] 04 p0557 N84-13674
Catalog of seismogram archives (revised) [PB84-127976] 10 p1537 N84-20074
North American climatic data catalog, part 1 [PB84-150366] 12 p1863 N84-22136
COSMIC software catalog, 1984 edition [NASA-CR-174576] 12 p1878 N84-22242
Satellite Services Catalog: Tools and equipment [NASA-TM-85627] 13 p1937 N84-22597
Documentation for the machine-readable version of the SAO-HD-GC-DM cross index version 1983 [NASA-TM-85570] 13 p2071 N84-23418
A study of conference publication records in OCLC: Some implications for the formulation and application of cataloging rules 16 p2566 N84-26464
Far infrared supplement: Catalog of infrared observations [NASA-RP-1119] 16 p2574 N84-26519
Catalog of infrared observations including: Bibliography of infrared astronomy and index of infrared source positions [NASA-RP-1118] 16 p2574 N84-26520
Publications and reports of the Institute of Oceanographic Sciences 1979-1982 [IOS-170] 18 p2892 N84-28354
Submillimeter, millimeter, and microwave spectral line catalogue [NASA-CR-173899] 22 p3546 N84-32448
Notes for medical catalogers, 1983 [PB84-195874] 22 p3675 N84-33296
NASA climate data catalog [NASA-TM-86085] 24 p3923 N84-34827

CATALYSIS
NT AUTOCATALYSIS
Catalysed low-temperature production of methane from water and graphite [DE83-012474] 02 p0203 N84-11325
Thermolysis of 4-methyl-4-phenyl malonyl peroxide: A new oxygen dependent chemiluminescent reaction [AD-A131863] 03 p0349 N84-12266
Chemical properties of metallic glasses [DE83-017353] 03 p0357 N84-12322
Surface science study of selective ethylene epoxidation catalyzed by the Ag(110) surface: Structural sensitivity [DE84-001324] 04 p0494 N84-13246
Catalysis of nitramine propellants by mmtal borohydrides [AD-A133215] 06 p0812 N84-15285
The number of solutions of an equation from catalysis [AD-A134555] 07 p1063 N84-16896
Organometallics in high energy chemistry [AD-A135715] 09 p1275 N84-18323
Metal-support interactions: Their effects upon adsorption, electronic, and activity/selectivity properties of cobalt in CO hydrogenation [DE83-013012] 10 p1457 N84-19516
Polymerization of functionalized acetylenes [AD-A137120] 10 p1465 N84-19570
Heavy-duty fuel economy program phase 5: Investigation of a heavy-duty 3-way catalyst system [PB84-135722] 11 p1639 N84-20715
Second Berkeley Catalysis and Surface Science Conference [DE84-005536] 12 p1794 N84-21699
Mechanisms of photochemical reactions of transition metal complexes: Excited state electron transfer and organometallic photochemistry [AD-A140006] 15 p2287 N84-24722
ECUT: Energy Conversion and Utilization Technologies program. Industry, university and research interest in the US Department of Energy ECUT biocatalysis research activity [NASA-CR-173553] 15 p2361 N84-25167
United States Air Force Academy, Department of Chemistry research: AY 1982-83 [AD-A141015] 18 p2808 N84-27828
Model catalytic studies using metal single crystals [DE84-010267] 18 p2812 N84-27850
Mechanism and kinetics of the oxidation of the iodide ion by oxygen [BLL-CE-TRANS-8005-(9022.09)] 19 p2987 N84-28924
Photochemical oxidation of hydrogen iodide by oxygen [BLL-CE-TRANS-7989-(9022.09)] 19 p2987 N84-28925
Theory of laser-induced surface chemistry with applications to microelectronics and heterogeneous catalysis [AD-A141832] 19 p2989 N84-28938
Investigation of the kinetics of catalyzed combustion of fuel [AD-A142153] 19 p2989 N84-28939
Porous catalytic metal plate degeneration bed in a gas generator [AD-D011078] 21 p3373 N84-31407
Energy Conversion and Utilization Technologies Program (ECUT) electrocatalysis research [NASA-CR-173939] 23 p3713 N84-33534
USSR report: Chemistry [JPRS-UCH-84-007] 24 p3867 N84-34508
Laser control of chemical reactions [AD-A144359] 24 p3908 N84-34758

CATALYSTS
NT ELECTROCATALYSTS
Analysis and synthesis of 1,2,4-butanetriol [AD-A130875] 01 p0052 N84-10338
Methanol production by catalytic gasification of wood [DE83-013744] 01 p0053 N84-10341
Study of the interaction of organomagnesium compounds with the salts of heavy metals and the use of organomagnesium compounds and their complexes as initiators of polymerization [BLL-M-28720-(5828.4)] 02 p0198 N84-11292
Low mileage catalyst evaluation with a methanol-fueled Rabbit [PB83-241620] 02 p0230 N84-11506
New approach to the generation of metal-bearing, medium-pore, shape-selective zeolites for Fischer-Tropsch catalysis: Spectroscopic studies of zeolites [DE83-014344] 03 p0347 N84-12254
Photoelectrochemical electrodes [NASA-CASE-NPO-15458-1] 03 p0348 N84-12262
Structural characterization of dispersed metal catalysts [DE83-017145] 03 p0354 N84-12305
Selective catalytic hydrogenation of polynuclear heteroaromatic nitrogen compounds with polymer-supported transition-metal compounds [DE84-001326] 04 p0495 N84-13248
Safety studies on Li/SOCl-2 reserve battery [AD-A132279] 04 p0526 N84-13458
Surface studies of WO3/Al2O3 and Ni/W/Al2O3 catalysts [DE84-000930] 05 p0651 N84-14283
Chemical modification of chemisorptive and catalytic properties of nickel [DE84-002046] 05 p0655 N84-14308
Inorganic chemistry 06 p0797 N84-15192
European Scientific Notes. Volume 37, number 9 [AD-A133558] 06 p0935 N84-16079
Promoter modifications of catalytic activity and selectivity [DE84-003179] 07 p0970 N84-16287
Correlations between surface structure and catalytic reactivity for alkane hydrogenolysis over nickel [DE84-002610] 07 p0971 N84-16292
Bifunctional oxygen electrodes [DE84-002774] 07 p0972 N84-16296
Alkali doping heterogeneous catalysts [BMFT-FB-T-83-174] 07 p0973 N84-16303
physico-chemical investigation of some areas of fundamental significance to biophysics [DE83-017404] 07 p1043 N84-16761
Symposium on Advanced Methods of Catalyst Characterization, November 1-2, 1982 [AD-A136209] 09 p1280 N84-18359
Studies of supported metal catalysts [DE84-004210] 09 p1285 N84-18389

Oligomerization and butenolysis of olefins by metathesis: Contributions to a chemical use of industrial C4-olefins — catalysts
[BMFT-FB-T-83-184] 10 p1457 N84-19518
Development of the VLS process for SiC whisker growth
[DE84-004376] 11 p1628 N84-20652
Development of catalysts for the utilization of carbon monoxide
[DE84-005475] 11 p1629 N84-20659
Surface ignition and heterogeneous catalysis of hydrocarbon fuels
[AD-A138214] 12 p1792 N84-21686
ECUT: Energy Conversion and Utilization Technologies program. Heterogeneous catalysis modeling program concept
[NASA-CR-173463] 12 p1842 N84-22012
Physical and chemical investigations on real catalyst surfaces
[BMFT-FB-T-83-273] 13 p1958 N84-22729
Adsorption and catalyzed reactions of CO and CO2 on graphite surfaces
[DE84-006625] 14 p2123 N84-23725
CO + H/sub 2 reaction over nitrogen-modified iron catalysts
[DE84-009046] 15 p2288 N84-24727
Mechanistic studies related to the metal catalyzed reduction of carbon monoxide to hydrocarbons
[DE84-007963] 15 p2288 N84-24729
Opportunities for the chemical industry in space, part 1
[NASA-CR-173594] 16 p2462 N84-25776
Full scale phosphoric acid fuel cell stack technology development
[NASA-CR-174660] 16 p2518 N84-26165
Thin film models of SMSI (Show Strong Metal-Support Interactions) catalysts: Pt on oxidized titanium
[AD-A140569] 17 p2767 N84-27572
Determination of structural parameters from EXAFS (Extended X-ray Absorption Fine Structure): Application to solutions and catalysts
[AD-A142205] 19 p2989 N84-28942
Fourier transform photoacoustic spectroscopy
[DE84-010216] 19 p2990 N84-28946
Performance verification tests of an uprated augmented catalytic thruster 20 p3136 N84-29911
Promotion effects on the synthesis of higher alcohols
[DE84-009916] 20 p3166 N84-30109
Mechanistic studies of catalytic methanol synthesis
[DE84-008380] 21 p3359 N84-31308
Chemical poisoning in model heterogeneous reactions
[DE84-012461] 21 p3360 N84-31315
Study of the kinetics of hydrogenation using aged catalysis
[DE84-006588] 21 p3362 N84-31330
Laser induced polymerization reactions in solid propellant binders 21 p3373 N84-31403
The selective epoxidation of ethylene catalyzed by silver: Mechanistic details revealed by single-crystal studies
[DE84-009987] 21 p3506 N84-32215
A diffusion mechanism in the catalytic conversion of carbonaceous materials into diamonds at high pressures
[CSIR-TRANS-1743] 22 p3557 N84-32526
Negative electrode catalyst for the iron-chromium REDOX energy storage system
[NASA-CASE-LEW-14028-1] 22 p3616 N84-32909

CATALYTIC ACTIVITY
Catalytic surface effects on space thermal protection system during Earth entry of flights STS-2 through STS-5 01 p0024 N84-10152
Orbiter catalytic/noncatalytic heat transfer as evidenced by heating to contaminated surfaces on STS-2 and STS-3 01 p0024 N84-10153
A review of nonequilibrium effects and surface catalysis on shuttle heating 01 p0024 N84-10154
High temperature catalytically assisted combustion
[AD-A133864] 05 p0648 N84-14259
Clean catalytic combustor program
[NASA-CR-168323] 06 p0789 N84-15151
Inorganic chemistry 06 p0797 N84-15192
Investigation of a para-ortho hydrogen reactor for application to spacecraft sensor cooling
[NASA-CR-175131] 06 p0916 N84-15957
The role of surface generated radicals in catalytic combustion 11 p1613 N84-20555
Proceedings of the 5th Workshop on Catalytic Combustion
[PB84-145580] 12 p1794 N84-21703
Diesel engine catalytic combustor system — aircraft engines
[NASA-CASE-LEW-12995-1] 23 p3756 N84-33808

CATAPULTS
Propulsion in a life-saving role for ACES 2 20 p3141 N84-29942
The Stencel S4S ejection seat: A study in new pyrotechnic developments 20 p3141 N84-29943
Crest: Crew escape technologies for the 1990's 20 p3141 N84-29944

CATCHMENT AREAS
U WATERSHEDS

CATECHOLAMINE
NT EPINEPHRINE
Link between blood catecholamine levels and individual features in dynamics of operator error 21 p3456 N84-31929

CATEGORIES
Projective monads and extensions of functors
[MC-ZW-195/83] 07 p1065 N84-16909

CATHETERIZATION
Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] 13 p2019 N84-23095

CATHODE RAY TUBES
Manufacturing Methods and Technology (MM and T) specifications for miniature cathode ray tube
[AD-A131042] 01 p0072 N84-10468
Manufacturing Methods and Technology (MM and T) specifications for miniature cathode ray tube
[AD-A132797] 05 p0675 N84-14439
Fast optical position-sensitive detector for McPherson ESCA-36
[AD-A132808] 05 p0685 N84-14501
Color display technology in advanced fighter cockpits 06 p0772 N84-15061
Displaying colors of specified chrominance on a color graphics display
[AD-A133591] 06 p0896 N84-15817
A sine-wave grating controller for vision testing
[AD-A135871] 09 p1318 N84-18610
Reliability modeling of critical electronic devices
[AD-A135705] 09 p1328 N84-18669
Ergo-ophthalmological aspects of the VDU: Visual strain and the blue light lesion
[DRIC-T-6821] 09 p1361 N84-18893
An optical analysis of the Farrand VCASS (Visually Coupled Airborne Systems Simulator) helmet-mounted display
[AD-A136649] 10 p1430 N84-19350
An automatic sine-wave grating controller to be used for contrast sensitivity testing
[AD-A138294] 12 p1812 N84-21811
Selection of elements in process schemes on Cathode Ray Tube (CRT). A comparative study between four types of trackballs
[IZF-1984-4] 20 p3182 N84-30213
A wide field-of-view CRT projection system with optical feedback for self alignment
[AD-P003447] 21 p3508 N84-32224
Comparison of CRT (Cathode Ray Tube) antireflection filters
[PB84-202753] 22 p3590 N84-32742
Development of color criteria for advanced displays
[AD-A143246] 22 p3630 N84-33006
Visual perception in systems management in aeronautics 22 p3632 N84-33017
The perception of saturation and hue on colour cathode ray tubes
[AD-A143645] 23 p3811 N84-34167

CATHODES
NT CELL CATHODES
NT COLD CATHODES
NT HOLLOW CATHODES
NT HOT CATHODES
NT PHOTOCATHODES
NT THERMIONIC CATHODES
NT TUBE CATHODES
Effects of solvent and supporting electrolyte on the electrochemical reduction of sulfur dioxide
[DE83-013436] 01 p0038 N84-10241
The cathodic polarization of nickel during precipitation from pure solutions without additions
[BLL-OA-TRANS-3004-(6196.3)] 01 p0043 N84-10275
The cathodic polarization of nickel during precipitation from pure solutions without additions
[BLL-OA-TRANS-3003-(6196.3)] 01 p0043 N84-10276
Design, construction and long life endurance testing of cathode assemblies for use in microwave high-power transmitting tubes
[NASA-CR-168112] 01 p0069 N84-10451
The effect of the structure of metallo-organic complexes on the electrolytic precipitation of titanium and niobium from nonaqueous electrolytes
[BLL-OA-TRANS-3070-(6196.3)] 04 p0497 N84-13259
Microwave generators: Oscillating virtual cathodes and reflexing electrons
[DE84-001346] 04 p0522 N84-13433
Solubility of the NiO fuel-cell cathode in Li2CO3 melts as determined by cyclic voltammetry
[DE83-014311] 04 p0530 N84-13485
Cathode driven high gain crossed-field amplifier
[AD-A133030] 05 p0676 N84-14441
Advanced fuel-cell development
[DE84-002685] 05 p0678 N84-14445
Preliminary investigation of ceramic-coated anodes for cathodic protection
[AD-A133440] 06 p0810 N84-15273
Development of new intercalated cathode materials for use in sodium batteries
[NASA-CR-173145] 07 p0997 N84-16460
Effects of water on the cathode passivation by lithium dithionite in the Li/SO2 battery
[DE84-003103] 07 p0998 N84-16473
Virtual cathode oscillations
[AD-A135120] 08 p1228 N84-18027
The cathode material for a plasma-arc heater
[BLL-OA-TRANS-3126-(6196.3)] 08 p1232 N84-18053
Rotating cathode device for molten salt bath — to prepare metallic titanium or aluminum
[BLL-OA-TRANS-3173-(6196.3)] 09 p1317 N84-18604
High energy density lithium primary cells using nitrogen containing polymer positives
[AD-A137377] 10 p1529 N84-20018
Glow discharge as an atomization and ionization device
[DE84-005253] 11 p1629 N84-20662
Preliminary experiments with a carbon fiber tuft cathode
[DE84-006296] 12 p1813 N84-21820
Cathode degradation and erosion in high pressure arc discharges
[NASA-TM-83638] 13 p1942 N84-22631
An electrodynamic interpretation of virtual-cathode oscillations
[DE84-008001] 14 p2142 N84-23848
Electrochemistry of carbides and carbon cathodes in molten halides
[DE84-007966] 15 p2287 N84-24725
Improved computer modelling of magnetron injection guns for gyrotrons
[DE84-007536] 15 p2330 N84-24992
Cathode materials development for carbonate fuel cells
[DE84-010033] 15 p2363 N84-25179
Fast turn-on osmium coated cathode
[AD-D011036] 19 p3018 N84-29134
Linear stability of general magnetically insulated electron flow
[DE84-010148] 19 p3018 N84-29138
Plasma studies on ion diodes
[AD-A142183] 19 p3107 N84-29743
Rigid indented cylindrical cathode for X-ray tube
[DE84-011093] 20 p3180 N84-30204
Electronically conductive ceramics for high temperature oxidizing environments
[DE84-014506] 22 p3561 N84-32549
Solid state tetrachloroaluminate storage battery having a transition metal chloride cathode
[AD-D011133] 22 p3618 N84-32924
Pore-forming fillers for molten carbonate matrices
[DE84-014509] 23 p3715 N84-33551
Phenomenology of plasma engine cathodes at high current rates and low pressures
[NASA-TM-77729] 24 p3866 N84-34502

CATHODIC COATINGS
Development of a prototype cathode sputtering plant
[BMFT-FB-T-83-251] 10 p1472 N84-19617
Cathode degradation and erosion in high pressure arc discharges
[NASA-TM-83638] 13 p1942 N84-22631

CATHODOLUMINESCENCE
High resolution cathodoluminescence of yellow and waterclear CVD polycrystalline ZnS
[AD-A141100] 19 p3110 N84-29759

CATIONS
NT FERRIC IONS
NT MANGANESE IONS
NT METAL IONS
Effects of acid precipitation and natural processes on cation leaching from 4 diverse forest ecosystems
[DE83-015759] 01 p0103 N84-10671
Nuclear-medicine
[DE84-000346] 04 p0571 N84-13759
Photon-stimulated ion desorption from condensed CO and N2
[AD-A133925] 05 p0647 N84-14254
Study of nitration and oxidation in oxynitrogen systems
[AD-A132742] 05 p0650 N84-14271
Photoluminescence excitation of the 1.441-eV cation antisite emission in p-type GaAs
[AD-A134332] 07 p1080 N84-17021
Diffusion mechanisms in transition-metal oxides
[DE84-003460] 08 p1236 N84-18081

Negative-ion formation from surface scattering and the Anderson correlation energy U
[AD-A136390] 12 p1914 N84-22473
Organometallic chemistry of weakly solvated transition metal cations
[DE84-006987] 13 p1958 N84-22726
Electron paramagnetic resonance (EPR) study of calcite ($CaCO_3$) containing both Mn^{2+} and Pb^{2+} cations
15 p2401 N84-25413
Ion photofragment spectroscopy: Structure and dissociation of molecular ions
[AD-A141196] 18 p2811 N84-27848
Ion makeup in upper atmosphere affected by source of X-ray radiation 19 p2973 N84-28850
Preliminary studies of the total cation exchange capacity of sediments from two North Atlantic study sites
[IOS-158] 19 p3062 N84-29430
The transfer of atoms, ions and molecular groups in solution. Part 1: Models and limits
[AD-A142333] 20 p3147 N84-29981
Cation self-diffusion in Fe_2O_3
[DE84-009152] 20 p3310 N84-31025
Transport behavior of multivalent beta aluminas
[AD-A142968] 21 p3370 N84-31362
Point defects and diffusion mechanisms in the monoxides of the iron-group metals
[DE84-012105] 21 p3505 N84-32210
High performance liquid chromatographic studies of the ion exchange selectivity of Nafion
[AD-A144646] 24 p3881 N84-34585

CATS
Neuronal-vascular relations in lateral geniculate body and superior colliculi of cats after exposure to accelerations 07 p1046 N84-16783
Regulation and characteristics of cold-induced vasodilation
[AD-A143797] 23 p3810 N84-34158

CATTLE
Biological chemistry 06 p0796 N84-15190

CAUCHY PROBLEM
Cauchy flux and sets of finite perimeter
[AD-A132834] 05 p0737 N84-14840
A singular free boundary problem
[AD-A136325] 09 p1373 N84-18967
Global existence and asymptotics in one-dimensional nonlinear viscoelasticity
[AD-A136367] 09 p1374 N84-18970
Initial value problems for viscoelastic liquids
[AD-A136425] 09 p1375 N84-18980
The Cauchy and Born hypotheses for crystals
[AD-A136374] 09 p1395 N84-19107
Solution of the Riemann problem for a polytropic gas
[REPT-22] 10 p1457 N84-19517
Riemann solvers, the entropy condition and high resolution difference approximations
[AD-P002945] 14 p2198 N84-24185
Multigrid techniques: The 1984 guide with applications to fluid dynamics 16 p2491 N84-25981
The cauchy problem in one-dimensional nonlinear viscoelasticity
[AD-A141507] 19 p3084 N84-29576
Uniqueness in the Cauchy problem for second order operators with real symbols 22 p3636 N84-33045
The generic local time-optimal stabilizing controls in dimension 3
[AD-A144662] 24 p3952 N84-35027

CAUCHY-RIEMANN EQUATIONS
Computational methods in number theory, part 2
[MATH-CENTRE-TRACTS-155-PT-2]
06 p1225 N84-17999
The computation of Galois groups
06 p1225 N84-18000
The first 200,000,001 zeros of Riemann's zeta function 06 p1225 N84-18006
A modified least squares formulation for a system of first order equations
[NASA-CR-172372] 19 p3062 N84-29557
A nonstationary relaxation technique for solving the equations of gas dynamics 23 p3746 N84-33746

CAUSES
Investigation, reporting and analysis of US Army aircraft accident 06 p0775 N84-15077
Time map maintenance
[AD-A137236] 10 p1567 N84-20268
McCauley Aviation, Inc. Mitsubishi MU-2B, N72B near Jeffersonville, Georgia, March 24, 1983 aircraft accident report
[PB84-910401] 18 p2789 N84-27702

CAUSTICS
U ALKALIES

CAUSTICS (OPTICS)
On some current problems in experimental fracture dynamics
[AD-P003102] 16 p2466 N84-25807
Dynamic crack growth criteria in structural metals
[AD-P003107] 16 p2467 N84-25812
Viscoelastic effect on dynamic crack propagation in Homalite 100
[AD-P003115] 16 p2468 N84-25820
Intensity of radiowave scattering on anisotropic irregularities with various positions of scattering volume about caustic zone 22 p3566 N84-32585

CAVES
Cavity detection and delineation research. Part 2. Seismic methodology: Medford Cave Site, Florida
[AD-A131322] 02 p0249 N84-11627
Cavity detection and delineation research. Report 5: Electromagnetic (Radar) techniques applied to cavity detection
[AD-A132923] 05 p0670 N84-14407

CAVITATION
U CAVITATION FLOW

CAVITATION CORROSION
Size scale effect in cavitation erosion
[NASA-TM-83533] 02 p0193 N84-11254
Diffusive relaxation of stress concentrations at grain boundary cavities in elevated temperature creep
02 p0297 N84-11950
Grain-boundary cavitation and weld-underbead cracking in DOP-26 iridium alloy
[DE83-015406] 03 p0389 N84-12539
Corrosion damage with additional mechanical loading
14 p2126 N84-23745
Empirical relations for cavitation and liquid impingement erosion processes
[NASA-TP-2339] 21 p3365 N84-31349
Characterization of erosion of metallic materials under cavitation attack in a mineral oil
[NASA-TP-2368] 22 p3603 N84-32825

CAVITATION FLOW
An investigation of cavity cycling for ventilated and natural cavities
[AD-A130641] 01 p0078 N84-10511
An analysis of the interaction between a submerged jet and a receiver-diffuser in a reverse-flow diverter
[DE83-012593] 04 p0536 N84-13521
The effect of flow oscillations on cavity drag, and a technique for their control 06 p0780 N84-15109
Cavitation inception observations on axisymmetric headforms with turbulence stimulators
[AD-A133517] 06 p0844 N84-15506
Characterization and analysis of cavity development during creep of ceramics at elevated temperature
[DE84-003113] 07 p0979 N84-16345
An investigation of tip-wall vortex cavitation in an axial-flow pump
[AD-A134357] 07 p1002 N84-16496
A 2-phase flow model for the diffused cavitation study
[CISE-2109] 07 p1004 N84-16514
Development of a high pressure water jet for the rapid removal of concrete
[PB84-109909] 08 p1142 N84-17426
The Shock and Vibration Bulletin. Part 2: Fluid-structure dynamics and dynamic analysis
[AD-A134453] 10 p1510 N84-19881
A study of pump cavitation damage — space shuttle main engine high pressure oxidizer turbopump
[NASA-CR-170992] 11 p1652 N84-20783
An investigation of the structure and high temperature mechanical properties of oxide dispersion strengthened alloys
[AD-A139359] 14 p2128 N84-23756
Practice; criteria; provisions; mathematical descriptions: Examples
[PUBL-310] 16 p2487 N84-25951
Failure by creep cracking and creep fatigue interaction in nickel base superalloys
[AD-A141112] 19 p2993 N84-28967
Micrometric cleaning of steel tubes through ultrasonic cavitation
[REPT-61584] 21 p3491 N84-32125
Numerical solutions for cavitating flow of a fluid with surface tension past a curved obstacle
[AD-A144695] 24 p3901 N84-34704

CAVITIES
Cavity detection and delineation research. Part 2. Seismic methodology: Medford Cave Site, Florida
[AD-A131322] 02 p0249 N84-11627
Detection of cavities under concrete pavement
[AD-A131851] 03 p0358 N84-12331
Steady laminar natural convection in open rectangular cavities 03 p0375 N84-12441
Embedded cavity drag in steady and unsteady flows
[NASA-CR-172275] 04 p0531 N84-13493
Component temperature versus laser-welding parameters
[DE84-000362] 04 p0541 N84-13559
Analysis of electromagnetic backscatter from an inlet cavity configuration
[AD-A133626] 05 p0669 N84-14400
Cavity detection and delineation research. Report 5: Electromagnetic (Radar) techniques applied to cavity detection
[AD-A132923] 05 p0670 N84-14407
The effect of flow oscillations on cavity drag, and a technique for their control 06 p0780 N84-15109
Mach 0.6 to 3.0 flows over rectangular cavities
[AD-A134579] 06 p0782 N84-15121
Grain boundary segregation and cavity formation in creep embrittled Cr-Mo steels 06 p0817 N84-15320
Mach 0.6 to 3.0 flows over rectangular cavities
[AD-A134579] 07 p0948 N84-16153
A generalized couple theory of hygrothermal-elasticity: Transient effects in composite laminate with circular cavity
[AD-A134376] 07 p0968 N84-16271
Experimental study of bubble cavities attached to a rotating shaft in a reservoir
[NASA-TM-83586] 08 p1157 N84-17533
Some topics in finite elasticity
08 p1169 N84-17614
The use of interference-fit bolts or bushes and hole cold expansion for increasing the fatigue life of thick-section aluminium alloy bolted joints
[AR-002-973] 09 p1329 N84-18676
Flow visualizations, velocity measurements, and surface convection measurements in simulated 20.8-cm Nova box amplifier cavities
[DE84-004354] 10 p1501 N84-19812
Process for producing parts with deep pocketed precision cavities using P/M shape technology
[DE84-006566] 12 p1799 N84-21733
Elastic wave scattering from cylindrical cavities and solid inclusions analyzed by the resonance method
[AD-P002971] 14 p2201 N84-24207
Chaos and optical bistability: Bifurcation structure
14 p2231 N84-24382
Optical bistability, chaos in the coherent two photon processes 14 p2231 N84-24384
Self-pulsing, breathing and chaos in optical bistability and the laser with injected signal
14 p2232 N84-24386
The aerodynamic effects of cavities in a body
[BU-289] 15 p2256 N84-24547
An epicycloidal hole under uniform tangential force in an infinite, isotropic, compressible medium in second order elasticity 15 p2401 N84-25407
Unsteady laminar natural convection inside an annular cavity
[CFD-83/8] 18 p2838 N84-28014
SRB/FWC water impact: Flexible body loads test
[NASA-CR-173786] 19 p3021 N84-29156
Sulfur and antimony segregation to creep cavity surfaces in Ni and an FCC Fe-Ni-Cr alloy
[DE84-011458] 20 p3154 N84-30028
Simulation of powder distribution in IITRI bag experiments
[AD-A141941] 20 p3170 N84-30128
Broadband cavity-backed slot using printed circuit technology
[AD-P003508] 21 p3384 N84-31476
Calculation of electromagnetic fields on the surface of and inside cavities — nuclear explosion effects
[SNIAS-841-422-108] 21 p3388 N84-31506
Supersonic jet-cavity interaction pulsation
21 p3485 N84-32089
The concentric spherical cavity TE and TM (Transverse Electromagnetic and Transverse Magnetic) eigenvalues
[AD-A143985] 23 p3732 N84-33652
Sidetone generator flowmeter
[DE84-014246] 23 p3752 N84-33783
High Marangoni Number convection in a square cavity: Additional results
[AD-A144485] 24 p3901 N84-34701

CAVITY RESONATORS
Transient high-field behavior of niobium superconducting cavities
[DE83-011852] 01 p0068 N84-10443
An investigation of cavity cycling for ventilated and natural cavities
[AD-A130641] 01 p0078 N84-10511
High charge picosecond pulses with a double gap subharmonic buncher
[DE83-011743] 01 p0143 N84-10939
Computer model for a circular symmetric cavity with application for lens antennas
[FOA-C-30332-E] 02 p0211 N84-11380
Etched cavity SAW (Surface Acoustic Wave) resonator elements for multipole filter applications
[AD-A131002] 02 p0288 N84-11886
Dielectric loss measurement at millimetre wave frequencies using an untuned cavity
[RSRE-MEMO-3597] 03 p0366 N84-12379
High-Q perpendicular-biased ferrite-tuned cavity
[DE83-017291] 04 p0529 N84-13478

Microwave nondestructive evaluation of composites
[DE84-001777] 04 p0547 N84-13601
Beam dynamics in the Advanced Test Accelerator (ATA)
[DE84-001421] 04 p0598 N84-13947
Surface properties of metal-nitride and metal-carbide films deposited on Nb for RF superconductivity
[DE84-001491] 04 p0614 N84-14055
Design and fabrication of the BNL radio frequency quadrupole
[DE84-001456] 05 p0671 N84-14409
Laser Resonator
[NASA-CASE-GSC-12565-1] 05 p0686 N84-14509
Periodic flow noise reduction using flow-excited resonators: Theory and application — centrifugal fans
[DFVLR-FB-83-29] 06 p0831 N84-15409
Maser cavity servo-tuning system
[NASA-CASE-NPO-15890-1] 06 p0849 N84-15536
Two-stage FEL (Free Electron Laser) program
[AD-A133508] 06 p0850 N84-15546
Preliminary tests of a second harmonic RF system for the intense pulsed neutron source synchrotron
[DE84-003595] 08 p1230 N84-18041
Development of X-ray laser media. Measurement of gain and development of cavity resonators for wavelengths near 130 angstroms, volume 1
[AD-A136305] 09 p1320 N84-18621
Development of X-ray laser media. Measurement of gain and development of cavity resonators for wavelengths near 130 angstroms, volume 2
[AD-A136306] 09 p1320 N84-18622
Development of X-ray laser media. Measurement of gain and development of cavity resonators for wavelengths near 130 angstroms, volume 3
[AD-A136307] 09 p1320 N84-18623
Transverse mode formation in positive branch unstable resonators
[AD-A136515] 09 p1322 N84-18635
Variational methods for nonstandard eigenvalue problems in waveguide and resonator analysis
[REPT-S-128] 09 p1379 N84-19012
Implementation and evaluation of two design concepts of the passive ring resonator laser gyroscope
[AD-A138064] 12 p1818 N84-21851
Polarization switching with J=1/2 to J=1/2 atoms in a ring cavity 14 p2237 N84-24423
Critical slowing down and magnetically-induced self-pulsing in a sodium-filled Fabry-Perot resonator 14 p2240 N84-24449
Low power optical bistability near bound excitons in cadmium sulfide 14 p2241 N84-24451
Off-axis coherently pumped laser
[NASA-CASE-GSC-12592-1] 18 p2845 N84-28065
Extended laser sensor
[AD-D011011] 19 p3029 N84-29214
Advanced ICRF launchers for heating and current drive in large Tokamaks
[DE84-009092] 19 p3108 N84-29750
Practical aspects of tuning a ringed RFQ
[DE84-011366] 20 p3175 N84-30163
General-purpose RFQ design program
[DE84-011327] 20 p3175 N84-30165
Analytic solution for the problem of gridded gap-electron flow interaction
[DE84-008975] 20 p3181 N84-30209
Excitation of sound by light 20 p3285 N84-30863
High-gradient, pulsed operation of superconducting niobium cavities
[DE84-012498] 20 p3311 N84-31030
Lumped-circuit model of four vane RFQ resonator
[DE84-011343] 21 p3387 N84-31497
A superconducting microwave parametric converter transducer sensitive to 10 to the minus nineteenth power m harmonic motion 21 p3489 N84-32112
Beam cavity coupling impedance
[DE84-014064] 22 p3578 N84-32662
Interferometrically tuned laser resonator
[AD-D011125] 22 p3600 N84-32800
Autogenerator of beams of charged particles
[DE84-014242] 22 p3654 N84-33163
A microwave oscillator controlled by pressure and stabilized by a 1250 MHz cavity resonator — single channel per carrier transmission
[INPE-3173-PRE/543] 23 p3741 N84-33712
Monolithic SAW oscillators on silicon
[AD-A143664] 23 p3741 N84-33716
Superconducting resonators — niobium
[BMFT-FB-T-84-119] 23 p3831 N84-34303

CCD
U CHARGE COUPLED DEVICES

CDC COMPUTERS
NT CDC CYBER 170 SERIES COMPUTERS
NT CDC CYBER 174 COMPUTER
NT CDC CYBER 175 COMPUTER
NT CDC CYBER 203 COMPUTER
NT CDC 6000 SERIES COMPUTERS
NT CDC 6600 COMPUTER
NT CDC 6700 COMPUTER
NT CDC 7600 COMPUTER
Network file-storage system
[DE84-001068] 04 p0585 N84-13863
Vector coding the finite volume procedure for the CYBER 205 06 p0839 N84-15485
Some predictions on the performance of future supercomputers for simulation and control
[DE84-002785] 07 p1053 N84-16816
Fundamental organometallic reactions: Applications on the CYBER 205 10 p1560 N84-20221
A Koeloff/Basal method, 3D migration program implemented on the CYBER 205 supercomputer 10 p1562 N84-20232
PASCAL packages for ASC II file I/O and CDC and dynamic strings
[PHL-1983-18] 12 p1884 N84-22285
Biaxial orientation and mechanical properties of amorphous polymers 13 p1998 N84-22985
NASTEK: Interactive display of NASTRAN-generated plots
[AD-A138631] 13 p2001 N84-22983
SNIAS's experience and work in the geometric modeling area
[SNIAS-632-111-107] 15 p2391 N84-25349
The simulation of deformable mechanical systems using vector processors 17 p2675 N84-27045
Routine storm surge forecasting using numerical models: Procedures and computer programs for use on the CDC CYBER 205E at the British Meteorological Office
[IOS-167] 18 p2891 N84-28353

CDC CYBER 170 SERIES COMPUTERS
NT CDC CYBER 175 COMPUTER
The creation of the NLR benchmark package and the performance of two new CDC comuters with it
[NLR-MP-82015-U] 06 p0896 N84-15819
PASCAL packages for ASC II file I/O and CDC and dynamic strings
[PHL-1983-18] 12 p1884 N84-22285
XSECT: A computer code for generating fuselage cross sections - user's manual
[NASA-TM-83218] 18 p2788 N84-27696
CARE 3: Model overview and user's guide
[NASA-TM-85810] 18 p2920 N84-28514

CDC CYBER 174 COMPUTER
PASCAL packages for ASC II file I/O and CDC and dynamic strings
[PHL-1983-18] 12 p1884 N84-22285

CDC CYBER 175 COMPUTER
United Information Services, Inc., CDC CYBER 175, CDC FORTRAN 5.1
[PB84-157668] 14 p2207 N84-24245

CDC CYBER 203 COMPUTER
Efficient spares matrix multiplication scheme for the CYBER 203 10 p1561 N84-20225
PASCAL packages for ASC II file I/O and CDC and dynamic strings
[PHL-1983-18] 12 p1884 N84-22285

CDC 6000 SERIES COMPUTERS
NT CDC 6600 COMPUTER
NT CDC 6700 COMPUTER

CDC 7000 SERIES COMPUTERS
NT CDC 7600 COMPUTER

CDC 6000 SERIES COMPUTERS
Computer center introductory reference manual for CDC 6000
[AD-A130941] 01 p0122 N84-10797

CDC 6600 COMPUTER
Expanding the permanent file directory on the CDC (Control Data Corporation) NOS/BE (Network Operating System/Batch Environment) operating systems
[AD-A140005] 15 p2418 N84-25519

CDC 6700 COMPUTER
Expanding the permanent file directory on the CDC (Control Data Corporation) NOS/BE (Network Operating System/Batch Environment) operating systems
[AD-A140005] 15 p2418 N84-25519

CDC 7600 COMPUTER
CDC to CRAY FORTRAN conversion manual
[NASA-CR-166574] 12 p1879 N84-22243

CDMA
U CODE DIVISION MULTIPLE ACCESS

CEILINGS (ARCHITECTURE)
Computer modeling of aircraft cabin fires
[PB84-101153] 08 p1101 N84-17162

CEILINGS (METEOROLOGY)
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F. Cape Romanzof AFS, Alaska
[AD-A130206] 01 p0107 N84-10698
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F. Lemoore NAS, California
[AD-A130205] 01 p0108 N84-10699
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F. Brize Norton RAF, United Kingdom
[AD-A131621] 02 p0254 N84-11663
Time lapse simulation of interrelated weather conditions
[AD-A133999] 05 p0706 N84-14639
Eielson AFB, Alaska. Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F
[AD-A134198] 07 p1036 N84-16723
McGuire AFB, New Jersey. Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F
[AD-A134199] 07 p1036 N84-16724
Duluth, Duluth IAP, Minnesota. Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F
[AD-A134200] 07 p1037 N84-16725
King Salmon, Alaska. Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F
[AD-A134201] 07 p1037 N84-16726
Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F. Kitzingen, West Germany
[AD-A134202] 07 p1037 N84-16727
Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F. Adak NAS, Alaska
[AD-A134203] 07 p1037 N84-16728
Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F. Loring AFB, Maine
[AD-A134204] 07 p1037 N84-16729
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Dyess AFB, Texas
[AD-A137575] 11 p1685 N84-20991
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Part A-F: Phillips, Aberdeen, Maryland
[AD-A137577] 11 p1685 N84-20993
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Gela, Italy
[AD-A137578] 11 p1686 N84-20994
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Dhahran, Saudi Arabia
[AD-A137580] 11 p1686 N84-20995
Limited Surface Observations Climatic Survey (LISOCS), Baumholder, West Germany
[AD-A137582] 11 p1686 N84-20997
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Andersen AFB, Guam
[AD-A137583] 11 p1686 N84-20998
AWOS (Automatic Weather Observing System) sensor evaluation. Transmissometer, forward-scatter meter and lidar ceilometer
[AD-A138743] 13 p2017 N84-23074
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Yokota Air Base, Japan
[AD-A137579] 15 p2372 N84-25229
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: McGhee-Tyson Airport, Tennessee
[AD-A140245] 16 p2530 N84-26245
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Malmstrom AFB, Montana
[AD-A141229] 18 p2890 N84-28343
Joint probability of selected cloud and visibility thresholds around Frankfurt, Germany
[AD-A141342] 18 p2891 N84-28348
VISSR IR grid data processing 24 p3922 N84-34821

CEILOMETERS
U CLOUD HEIGHT INDICATORS

CELESTIAL BODIES
NT A STARS
NT ACHONDRITES
NT ALLENDE METEORITE
NT AQUARID METEOROIDS
NT ASTEROIDS
NT B STARS
NT BARRED GALAXIES
NT BINARY STARS
NT BL LACERTAE OBJECTS
NT BLUE STARS
NT CALLISTO
NT CARBON STARS
NT CARBONACEOUS CHONDRITES
NT CEPHEID VARIABLES
NT CHONDRITES
NT COMET HEADS
NT COMET NUCLEI
NT COMET TAILS
NT COMETS
NT COMPANION STARS

NT CRAB NEBULA
NT DISK GALAXIES
NT DWARF NOVAE
NT DWARF STARS
NT EARLY STARS
NT EARTH (PLANET)
NT ECLIPSING BINARY STARS
NT ELLIPTICAL GALAXIES
NT EUROPA
NT EXTRAGALACTIC RADIO SOURCES
NT EXTRASOLAR PLANETS
NT GALACTIC CLUSTERS
NT GALAXIES
NT GALILEAN SATELLITES
NT GANYMEDE
NT GAS GIANT PLANETS
NT GEMINID METEOROIDS
NT GIANT STARS
NT GLOBULAR CLUSTERS
NT HALLEY'S COMET
NT HOT STARS
NT IAPETUS
NT INFRARED STARS
NT IO
NT IRAS-ARAKI-ALCOCK COMET
NT IRON METEORITES
NT JUPITER (PLANET)
NT JUPITER RINGS
NT JUPITER SATELLITES
NT LATE STARS
NT MAGNETIC STARS
NT MAIN SEQUENCE STARS
NT MARS (PLANET)
NT MERCURY (PLANET)
NT METALLIC STARS
NT METEORITES
NT METEOROID DUST CLOUDS
NT METEOROIDS
NT MICROMETEORITES
NT MICROMETEOROIDS
NT MILKY WAY GALAXY
NT MOON
NT NATURAL SATELLITES
NT NEBULAE
NT NEPTUNE (PLANET)
NT NEUTRON STARS
NT NOVAE
NT O STARS
NT ORION NEBULA
NT PECULIAR STARS
NT PHOBOS
NT PLANETARY NEBULAE
NT PLANETS
NT PRE-MAIN SEQUENCE STARS
NT PROTOPLANETS
NT PROTOSTARS
NT PULSARS
NT QUASARS
NT RADIO GALAXIES
NT RADIO SOURCES (ASTRONOMY)
NT RED GIANT STARS
NT REFLECTION NEBULAE
NT SATURN (PLANET)
NT SATURN RINGS
NT SEYFERT GALAXIES
NT SOLAR SYSTEM
NT SPIRAL GALAXIES
NT STAR CLUSTERS
NT STARS
NT STONY METEORITES
NT SUBDWARF STARS
NT SUN
NT SUPERGIANT STARS
NT SUPERMASSIVE STARS
NT SUPERNOVAE
NT SYMBIOTIC STARS
NT T TAURI STARS
NT TEKTITES
NT TITAN
NT URANUS (PLANET)
NT URANUS RINGS
NT VARIABLE STARS
NT VENUS (PLANET)
NT VIRGO GALACTIC CLUSTER
NT WHITE DWARF STARS
NT WOLF-RAYET STARS
NT ZODIACAL DUST

Royal Observatory, Edinburgh: Research and Facilities 1983
[ISBN-0-902553-27-5] 10 p1594 N84-20446

The life cycle of stars 10 p1594 N84-20450

Academician Barsukov interviewed on Venera results 12 p1775 N84-21578

Documentation for the machine-readable version of the Smithsonian Astrophysical Observatory Star catalogue (SAO) version 1984
[NASA-TM-85574] 13 p2071 N84-23419

Contribution to the dynamics of extended bodies: Gravitational interaction
[SER-C-288] 18 p2952 N84-28711

Spinoff, 1984
[NASA-TM-85596] 22 p3676 N84-33305

CELESTIAL GEODESY

Assessment of means for determining deflection of the vertical
[AD-A131286] 01 p0100 N84-10651

The far infrared sky survey experiment
[AD-A131966] 03 p0461 N84-13037

Geodetic astronomy 10 p1519 N84-19945

On recent progress in and utilization of astrogeodetic-inertial and astrogeodetic-gradiometric gravity vector determination
[AD-A136263] 10 p1526 N84-19993

CELESTIAL MECHANICS

On perturbation theory
[AD-A130213] 01 p0131 N84-10856

A study of A- and B-type stars in the southern galactic halo 04 p0618 N84-14077

Central configurations of the N-body problem
[AD-A132820] 05 p0736 N84-14836

Chaos and order — stochastic processes in dynamical systems
[MC-TW-243/83] 07 p1067 N84-16930

The celestial mechanics experiment (E 11) of HELIOS
[BMFT-FB-W-83-016] 08 p1243 N84-18124

A topological version of a theorem of Mather on twist maps
[AD-A137950] 11 p1716 N84-21189

Introduction to geostationary orbits
[ESA-SP-1053] 12 p1776 N84-21590

Cometary nucleus and active regions 13 p2075 N84-23450

Numerical-analytical method for computing movement of 12-hour artificial earth satellites in near-circular orbits 19 p2972 N84-28841

Space in Keplerian orbits 19 p2972 N84-28842

Stability of equilibrium in problems with double resonance 19 p3117 N84-29809

An equality which yields zero velocity surfaces 19 p3117 N84-29810

Stability and capture of asteroids 19 p3118 N84-29811

A method for the estimation of small perturbations 19 p3118 N84-29817

Orbital evolution of the Galilean satellites: The conservative model 19 p3120 N84-29830

A 2:1 Commensurability in Uranus-Neptune system 19 p3120 N84-29833

Radio science 23 p3842 N84-34373

Numerical simulations of collisions in self-gravitating systems 24 p3987 N84-35237

CELESTIAL NAVIGATION

Celestial pattern recognition allowing autonomous earth-surface or deep-space positioning
[AD-A136115] 12 p1768 N84-21529

CELESTIAL OBSERVATION

U ASTRONOMY

CELESTIAL REFERENCE SYSTEMS

Comments on conventional terrestrial and quasi-inertial reference systems 07 p1029 N84-16669

Effects of adopting new precession, nutation and equinox corrections on the terrestrial reference frame 07 p1029 N84-16670

CELL ANODES

Research on oxidation by air and tempering of Raney nickel electrocatalysts for the H2 anodes of alkali combustion materials cells
[NASA-TM-77414] 23 p3713 N84-33535

CELL CATHODES

Lithium cell reactions
[AD-A142976] 21 p3391 N84-31522

Molten carbonate fuel cell cathode development
[DE84-012101] 21 p3395 N84-31544

CELL DIVISION

Branching processes in periodically varying environment
[CTH-MATH-1983-12-PREPRINT] 03 p0426 N84-12792

On the stability of the cell size distribution
[MC-TW-242/83] 07 p1065 N84-16907

Diurnal rhythm in the cell-division frequency of prochloron (prochlorophyta) in nature 10 p1544 N84-20118

On the stable size distribution of populations reproducing by fission into two unequal parts
[CWI-AM-R8401] 19 p3092 N84-29633

CELLS

Operation and performance measurement on engines in sea-level test facilities: Introduction and general survey 16 p2452 N84-25724

Conditions for two-cell structure in severe vortical storms
[AD-A138242] 17 p2734 N84-27381

Automatic digital battery cell capacitance measurements
[AD-A143143] 21 p3392 N84-31523

CELLS (BIOLOGY)

NT AXONS
NT CHROMOSOMES
NT COLLAGENS
NT ERYTHROCYTES
NT FIBROBLASTS
NT GAMETOCYTES
NT HEMATOPOIESIS
NT HEMOGLOBIN
NT LEUKOCYTES
NT LYMPHOCYTES
NT MITOCHONDRIA
NT NEURONS

Morphometric study of rat adrenal medulla during long-term hypokinesia 02 p0260 N84-11705

The Regulatory Functions of Calcium and the Potential Role of Calcium in Mediating Gravitational Responses in Cells and Tissues
[NASA-CP-2286] 02 p0262 N84-11720

Evidence for a regulatory role of calcium in gravitropism 02 p0262 N84-11721

Calcium modulation of plant plasma membrane-bound ATPase activities 02 p0263 N84-11723

Intracellular calcium receptors: Calmodulin and related proteins 02 p0263 N84-11724

Role of calcium and calmodulin in plant cell regulation 02 p0263 N84-11725

Local calcium entry and the guidance of growth 02 p0263 N84-11726

Developing higher plant systems in space 02 p0263 N84-11727

Calcium ions, stores, and modulators: What is the gravity receptor connection? 02 p0264 N84-11733

The plasma membrane calcium pump 02 p0264 N84-11734

Measurement and control of free calcium inside small intact cells 02 p0264 N84-11736

Role of calmodulin in cell proliferation 02 p0264 N84-11737

Controls of intracellular communication mediated by gap junctions 02 p0264 N84-11738

Concepts of dose to soft tissue at the cellular level
[DE83-013830] 02 p0266 N84-11748

Kinetic and spectroscopic studies of cytochrome b-563 in isolated cytochrome b/f complex and in thylakoid membranes
[DE83-017982] 04 p0571 N84-13760

New polymers for low-gravity purification of cells by phase partitioning
[NASA-CR-170957] 06 p0809 N84-15267

Countercurrent distribution of biological cells
[NASA-CR-170958] 06 p0885 N84-15755

Lethal, potentially lethal lesion model
[DE84-001325] 06 p0886 N84-15762

The effect of various carbon sources on the growth of single-celled cyanophyta
[NASA-TM-77090] 08 p1197 N84-17804

Behavioral change of blood lactate metabolism
[PB84-100171] 08 p1204 N84-17850

Cells, embryos and development in space 09 p1356 N84-18862

Effects of simulated weightlessness on mammalian development. Part 1: Development of clinostat for mammalian tissue culture and use in studies on meiotic maturation of mouse oocytes 09 p1357 N84-18868

Rodent CNS neuron development: Timing of cell birth and death 09 p1357 N84-18870

Fluid mechanical aspects of cell culture
[NASA-CR-171749] 09 p1360 N84-18886

IPE 7 10 p1545 N84-20123

Labeled cells as research, diagnostic and therapeutic tools 15 p2429 N84-25589

Computer-assisted chromosome analysis 15 p2430 N84-25590

Suppression of asymmetric acid efflux and gravitropism in maize roots treated with auxin transport inhibitors of sodium orthovanadate
[NASA-CR-173634] 17 p2740 N84-27395

Laser cell analyzer 17 p2741 N84-27406

Do living cells have a good sensitivity to gravity 17 p2744 N84-27425

International Workshop on Biophysical Correlates of Cellular Function UNESCO
[AD-A142490] 20 p3257 N84-30671

Effects of microwaves on cell membrane permeability
[AD-A142979] 21 p3453 N84-31913

Effects of radiofrequency radiation on differentiation of erythroleukemic cells
[AD-A143038] 21 p3453 N84-31914
Roles of ionizing radiation in cell transformation
[DE84-013397] 22 p3629 N84-32995
Immunologic effects of electromagnetic fields (1981 - 1983)
[PB84-190602] 22 p3631 N84-33006
Molecule microscopy 22 p3681 N84-33337
Sensitivity of bone cell populations to weightlessness and simulated weightlessness 23 p3809 N84-34151
A study of the interaction of millimeter wave fields with biological systems
[AD-A144150] 24 p3935 N84-34910

CELLULAR MATERIALS (NON BIOLOGICAL)
U FOAMS

CELLULOSE
Contributions towards analytical chromatography
[BLL-M-29666-(5828.4)] 24 p3880 N84-34579

CELLULOSE NITRATE
Liquid chromatographic analysis of nitrocellulose-base propellants
[AD-A129005] 01 p0052 N84-10333
Colour testing of nitrocellulose propellants by a spectrophotometric method
[AD-A133091] 05 p0662 N84-14348
Expanded ignition effectiveness tests of selected igniter materials with Navy propellants
[AD-A134704] 08 p1125 N84-17312

CEMENTATION
Gaseous cementation in nitrogen-methanol atmospheres
[CETIM-12-G-284] 21 p3369 N84-31374

CEMENTITE
The redistribution of silicon during the spheroidizing annealing of iron
[BLL-M-35167-(5828.4)] 01 p0040 N84-10257
Influence of microplastic deformations on spheroidization of cementite in steel
[BLL-M-35503-(5828.4)] 12 p1795 N84-21711
Influence of the base metal on the wear-resistance of high-strength cast iron
[BLL-M-35504-(5828.4)] 12 p1796 N84-21712

CEMENTS
Sulfur extended asphalt pavement evaluation: Executive summary
[PB83-205971] 01 p0058 N84-10381
High alumina cement concrete
[CSIR-BRR-573] 04 p0505 N84-13311
Grinding kinetics and equilibrium states
[NASA-TM-77430] 19 p3002 N84-29025
Survey and analysis of materials research and development at selected federal laboratories
[DE84-008904] 20 p3145 N84-29967

CENSORED DATA (MATHEMATICS)
On the asymptotics of maximum likelihood and related estimators based on type 2 censored data
[AD-A137958] 12 p1896 N84-22348

CENTAUR LAUNCH VEHICLE
NT ATLAS CENTAUR LAUNCH VEHICLE
Engineering evaluations and studies. Volume 2: Exhibit B, part 2
[NASA-CR-171726] 06 p0794 N84-15176
Centaur D-1A guidance/software system
[NASA-TM-83552] 07 p0962 N84-16234
A high energy stage for the National Space Transporation System
[NASA-TM-83795] 22 p3540 N84-32411

CENTAUR VEHICLE
U CENTAUR LAUNCH VEHICLE

CENTER OF GRAVITY
Reduced stability in a modern commercial aircraft and center of gravity control
[MBB-UT-22-82-OE] 05 p0632 N84-14156
Weight and balance for the airmass incorporated sunburst model C ultralight
[NASA-CR-175356] 07 p0950 N84-16163

CENTER OF MASS
Stability of periodic oscillations of almost axisymmetric satellite in plane of elliptical orbit
17 p2650 N84-26945
Center of mass correction and its confidence for the Precise Orbital Positioning Satellite (Popsat)
24 p3906 N84-34738

CENTIMETER WAVES
A broadband high power millimeter to centimeter spectrometer
[AD-A131629] 02 p0294 N84-11927
Millimeter radio astronomy at Onsala (Sweden)
09 p1413 N84-19242
Quenchings and outbursts of extragalactic radio sources: Nine years of 3.3-mm measurements and comparisons with centimeter-wave variations
[AD-A138233] 13 p2092 N84-23550
Change in spectrum of blood hormones under influence of centimeter range microwaves
17 p2742 N84-27412
Height profile of the field strength of reception by multipath propagation in the cm wave range
[FI-455-TBR-75] 19 p3010 N84-29081

CENTRAL NERVOUS SYSTEM
NT BRAIN
NT CEREBELLUM
NT CEREBRAL CORTEX
NT CEREBRUM
NT SPINAL CORD
NT SPINE
A high-performance analog-to-digital conversion subsystem suitable for the study of evoked potentials, with design considerations for the eclipse $140 (trademark) computer
[AD-A130353] 01 p0071 N84-10461
Cervical spline analysis for ejection injury prediction
[AD-A131081] 01 p0114 N84-10739
Experimental psychological methods used in expert evaluation of mental work capacity of flight personnel in the presence of functional disturbances and central nervous system diseases 02 p0261 N84-11712
Gravitational study of the central nervous system
02 p0263 N84-11730
The effects of hyperbaric elemental gases on the rate coefficient of K(+) influx in mammalian synaptosomes
04 p0570 N84-13754
Rodent CNS neuron development: Timing of cell birth and death 09 p1357 N84-18870
Results of psychophysiological study of Videoton terminal operators 21 p3454 N84-31919
Link between blood catecholamine levels and individual features in dynamics of operator error
21 p3456 N84-31929

CENTRAL PROCESSING UNITS
NT ARITHMETIC AND LOGIC UNITS
Hard CPU related failures and system activity: Measurement and modelling
[AD-A130821] 01 p0119 N84-10772
Microprocessor multi-task monitor
[DE83-012590] 02 p0270 N84-11769
Portable kernel for computers
[INPE-2877-PRE/403] 02 p0271 N84-11775
Users' guide for the NCAR (National Center for Atmospheric Research) CCM (Community Climate Model) modular processor
[PB83-264002] 05 p0710 N84-14652
CONSTRUCT: A tool for programming in the large
05 p0722 N84-14733
Performance analysis of loosely coupled computer systems 05 p0731 N84-14801
Exact performance of general second-order processors for Gaussian inputs
[AD-A134098] 05 p0733 N84-14816
Permanent CPU errors and system activity: Measurement and modelling
[AD-A134467] 07 p1052 N84-16814
UCLA demodulation engine
[AD-A135912] 09 p1309 N84-18556
Design of array processor software for nonlinear structural analysis
[AD-A137767] 11 p1706 N84-21124
A high speed processor for binary images
[AD-A138906] 13 p2025 N84-23125
Comparison of processor arrays with pipeline processors for image processing
[NLR-MP-83011-U] 13 p2030 N84-23165
Development of automatic measuring system for image pickup tubes
[NHK-LN-295] 15 p2335 N84-25014
Signal processing at the Poker Flat MST radar
17 p2695 N84-27189
Design study of floating point systolic VLSI chip
[AD-A141868] 19 p3013 N84-29102
A high performance MIL-STD-1750A microprocessor
[AD-P003549] 21 p3334 N84-31153
Architecture, hardware and software issues in fielding the next generation DOD processors
[AD-P003561] 21 p3339 N84-31186
Simulation of large networks of processors by smaller ones
[AD-A143529] 22 p3643 N84-33098
Pipelined digital SAR azimuth correlator using hybrid FFT-transversal filter
[NASA-CASE-NPO-15519-1] 24 p3893 N84-34651
Research in the design of high-performance reconfigurable systems
[NASA-CR-173998] 24 p3942 N84-34957
Design and implementation of a reentrant page editing processor 24 p3959 N84-35068
EC 1027 computer system 24 p3960 N84-35075

CENTRIFUGAL CASTING
Centrifugal scaling laws for ground launch cruise missile shelter
[AD-A141572] 19 p2969 N84-28818
Low cost thermal protection system processing
[AD-D011142] 22 p3544 N84-32434
Generalization of results of electro-simulation of temperature of the piece during centrifugal cladding
[BLL-M-35687-(5828.4)] 22 p3551 N84-32479

CENTRIFUGAL COMPRESSORS
La Recherche Aerospatiale, Bimonthly Bulletin, no. 1982-6, 211/November-December 1982
[ESA-TT-801] 04 p0515 N84-13382
Periodic flow noise reduction using flow-excited resonators: Theory and application — centrifugal fans
[DFVLR-FB-83-29] 06 p0831 N84-15409
A viscid inviscid interaction procedure for two dimensional cascades 07 p0955 N84-16191
Flow generation in a novel centrifugal diffuser test device
[AD-A136874] 10 p1492 N84-19754
Prediction of critical speeds, unbalance and nonsynchronous forced response of rotors
10 p1515 N84-19918
Centrifugal-reciprocating compressor
[NASA-CASE-NPO-14597-2] 18 p2848 N84-28081
An improved method for the prediction of centrifugal compressor rotational-tone noise
[DE84-013345] 22 p3605 N84-32842

CENTRIFUGAL FORCE
The evolution equations for Taylor vortices in the small gap limit
[NASA-CR-172249] 01 p0077 N84-10501
Procedure for determination of damping capability of turbomachine blades subjected to heat and centrifugal forces 17 p2642 N84-26905

CENTRIFUGAL PUMPS
A helium refrigerator with features for supercritical pressure cooling
[DE84-017759] 04 p0515 N84-13383
Forces on a whirling centrifugal pump-impeller
05 p0687 N84-14516
The Shock and Vibration Digest, volume 16, no. 4
[AD-A141077] 21 p3418 N84-31676
Critical speed of centrifugal pumps
21 p3418 N84-31677
Mechanical seal program
[DE84-012421] 22 p3605 N84-32838
An improved method for the prediction of centrifugal compressor rotational-tone noise
[DE84-013345] 22 p3605 N84-32842

CENTRIFUGES
NT HUMAN CENTRIFUGES
Numerical studies of the isotope distribution in a gas centrifuge using a tapered, double-parabolic axial flow
[DE83-013011] 01 p0081 N84-10529
Numerical simulation of the countercurrent flow in a gas centrifuge
[DE83-013323] 02 p0218 N84-11432
Practical computation of multidimensional thermal flows in a gas centrifuge
[DE83-005697] 03 p0372 N84-12426
Avian embryonic development in hyperdynamic environments
[NASA-CR-173339] 09 p1360 N84-18885
Centrifuge impact cratering experiment 5
[NASA-CR-173354] 10 p1497 N84-19784
Development of the CARS method for measurement of pressure and temperature gradients in centrifuges
[DE84-006321] 11 p1629 N84-20660
Development of hydrocyclones for aluminum/air battery applications
[DE84-011403] 20 p3179 N84-30197
Flow in a tapered centrifuge
[DE84-012553] 21 p3401 N84-31573
Ekman boundary conditions for numerical models of centrifuge flows
[DE84-013576] 22 p3595 N84-32765

CENTRIFUGING
Coil planet centrifugation as a means for small particle separation
[NASA-TM-82561] 04 p0570 N84-13756
Twinning of amphibian embryos by centrifugation
09 p1358 N84-18873
Rat body size, composition and growth at hypo- and hypergravity
[NASA-CR-175393] 10 p1545 N84-20126

CENTRIFUGING STRESS
Effect of centrifuging on survival of early larvae of common frogs 15 p2377 N84-25266

CENTRIPETAL FORCE
Forced vibration analysis of rotating cyclic structures in NASTRAN
[NASA-CR-165429] 02 p0231 N84-11514

CENTROIDS
Centroid scaling of citation data: Charting the history of a scientific specialty, plate tectonics
01 p0104 N84-10673

CENTURION AIRCRAFT
U CESSNA 210 AIRCRAFT

CEPHEID VARIABLES
Application of multivariate analysis to the parameters of parameters of astrophysical objects
09 p1408 N84-19199
Theoretical study of cepheid light curves
[DE84-012453] 21 p3523 N84-32322
Some masses for population 1 and 2 cepheids
[DE84-014032] 22 p3677 N84-33311
Cepheid evolution
[DE84-014027] 23 p3839 N84-34352

CEPHEUS CONSTELLATION
Correlated errors in a functional relationship: Estimation of the color term in the Period Luminosity-Color (PLC) for Long Magellanic Clouds (LMC) Cepheids
09 p1411 N84-19228

CERAMAL PROTECTIVE COATINGS
U CERMETS
U PROTECTIVE COATINGS

CERAMALS
U CERMETS

CERAMIC BONDING
Development of reaction-bonded silicon carbide (SiSiC)-ceramics
[JUEL-1873] 18 p2819 N84-27901
Joining silicon nitride based ceramics: A technical assessment
[DE84-011356] 20 p3164 N84-30092

CERAMIC COATINGS
Development of strain tolerant thermal barrier coating systems, tasks 1 - 3
[NASA-CR-166251] 03 p0355 N84-12312
Comparative study of TiN hard coatings produced by reactive sputtering, ion-plating and CVD technique
[BLL-RARDE-TR-1094(7291.7965)]
06 p0804 N84-15236
Preliminary investigation of ceramic-coated anodes for cathodic protection
[AD-A133440] 06 p0810 N84-15273
Evaluation of a non-catalytic coating for metallic TPS
[NASA-TM-85745] 07 p0974 N84-16312
Some inelastic effects of thermal cycling on yttria-stabilized zirconia
[NASA-TM-83488] 07 p1001 N84-16492
Characterization of ceramic powders by an X-ray measuring method
[NASA-TM-77094] 09 p1286 N84-18398
Swedish activities in new ceramic materials, processes 14 p2119 N84-23696
Performance of thermal barrier coatings in high heat flux environments
[NASA-TM-83663] 15 p2295 N84-24772
Sputtered coatings for protection of spacecraft polymers
[NASA-TM-83706] 17 p2626 N84-26803
Harwell research into the oxidation of metals: A summary
[AERE-E-11155] 18 p2816 N84-27881
Surfaces, Coatings and Protection — for nuclear reactor components
[ND-R-751(S)] 18 p2931 N84-28583
Sputter-deposited metallic and ceramic coatings for heat engines
[DE84-011401] 20 p3154 N84-30030

CERAMICS
NT PORCELAIN
Lessons learned from the development and manufacture of ceramic reusable surface insulation materials for the space shuttle orbiters 01 p0025 N84-10158
Investigations into the burning-out of organic substances in the ceramic body
[NASA-TM-77065] 01 p0049 N84-10315
Research on microstructurally developed toughening mechanisms in ceramics
[AD-A130394] 01 p0049 N84-10316
Hot isostatic pressing of ceramic powder compacts
[AD-A131514] 01 p0050 N84-10324
Method of manufacturing ceramic shaped articles
[NASA-TM-77242] 01 p0057 N84-10370
Advanced Gas Turbine (AGT): Power-train system development
[NASA-CR-168056] 01 p0089 N84-10581
Analysis of soldering-induced cracking of BaTiO3 ceramic capacitors
[DE83-013960] 02 p0200 N84-11304
Structure-property relationships in ion-implanted ceramics
[DE83-015505] 02 p0202 N84-11313
The sodium sulfur battery system: Investigation of the solid electrolyte beta alumina
[BMFT-FB-T-83-123] 02 p0216 N84-11416
Design, performance and operation of the laser interferometric dilatometer
[DE83-014359] 02 p0226 N84-11483
Investigation of inhomogeneity in ceramic reactor materials using laser-localized emission spectroscopy
[JUEL-1834] 03 p0357 N84-12323
Elastic-wave inverse scattering in non-destructive evaluation
[DE83-017683] 03 p0386 N84-12513
Characterization of ceramic vane materials for 10KW turboalternator
[AD-A132505] 04 p0486 N84-13196
Mechanisms of elevated-temperature rupture in single-phase ceramics
[DE83-017779] 04 p0508 N84-13327
Automated thermal conductivity probe and applications to powders
[DE84-000451] 04 p0508 N84-13328
Structural performance of ceramics in a high-fluence fusion environment
[DE84-001311] 04 p0508 N84-13329
Sizing defects using annular-array techniques with an automated ultrasonic data-acquisition system
[DE84-001644] 04 p0546 N84-13597
Three-dimensional analysis of chevron-notched specimens by boundary integral method
[NASA-CR-172225] 04 p0547 N84-13607
Ceramic composite liner material for gas turbine combustors
[NASA-TM-83490] 05 p0631 N84-14145
Effect of contact damage on the strength of ceramic materials
[AD-A133746] 05 p0658 N84-14327
Optimization of SiC-based materials
[BMFT-FB-T-83-161] 05 p0661 N84-14343
Metals and ceramics research: Processing, properties, and applications
[ORNL-5943] 06 p0796 N84-15187
Energy Materials Coordinating Committee (EMACC). Contractors Meeting on Problems and Opportunities in Structural Ceramics
[CONF-8209111] 06 p0809 N84-15266
Screening and classification of ceramic powders
[NASA-TM-77092] 06 p0809 N84-15270
Advanced Gas Turbine (AGT) technology development
[NASA-CR-168235] 06 p0852 N84-15554
Refined test methods in evaluating brittle material strengths
[AD-A133596] 06 p0861 N84-15610
Silicon nitride: A ceramic material with outstanding resistance to thermal shock and corrosion
[NASA-TM-77067] 07 p0978 N84-16336
Characterization and analysis of cavity development during creep of ceramics at elevated temperature
[DE84-003113] 07 p0979 N84-16345
Transformation toughened and whisker reinforced ceramics
[DE84-003281] 07 p0979 N84-16346
Influence of temperature on fracture behavior and mechanical properties of hot-pressed silicon nitride with different sintering aids
[BMFT-FB-T-83-166] 07 p0980 N84-16349
Some inelastic effects of thermal cycling on yttria-stabilized zirconia
[NASA-TM-83488] 07 p1001 N84-16492
Ceramic components for gas turbines, phase 2
[BMFT-FB-T-83-198] 08 p1105 N84-17183
Ceramic life prediction methodology - hot spin disc life program
[AD-A134783] 08 p1138 N84-17400
Dynamic consolidation of ceramic powders: Practicalities, problems, and prospects
[DE84-003744] 08 p1138 N84-17404
Electrode noise in beta aluminas
[AD-A134637] 08 p1152 N84-17497
Theory of dynamic ferroelectricity
[DE84-002609] 08 p1152 N84-17500
Characterization of high temperature electrically conducting oxides
[DE84-002687] 08 p1236 N84-18076
Reliability studies of ceramic capacitors
[AD-A136378] 09 p1287 N84-18403
Status, needs, and opportunities for structural ceramics in advanced heat engines
[DE84-003307] 09 p1289 N84-18413
Dynamic fragmentation of ferroelectric ceramics using the torsional Kolsky bar
[DE84-003726] 09 p1289 N84-18415
The current status of diamond and cubic boron nitride composites 09 p1292 N84-18441
Report to Congress on the Automotive Technology Development Program
[DE84-004097] 09 p1325 N84-18660
Fabrication and coating of selected diesel engine components for combustion durability testing
[DE84-002188] 09 p1326 N84-18662
Computer-based methods for thermodynamic analysis of materials processing
[AD-A136085] 09 p1397 N84-19123
Ceramic wear in indentation and sliding
[NASA-TM-83585] 10 p1465 N84-19566
Micro and macro mechanics of fracture in ceramics
[AD-A137290] 10 p1465 N84-19572
Ceramic coatings for heat engine materials: Status and future needs
[DE84-003401] 10 p1468 N84-19590
Corrosion resistance of ceramic materials to hydrochloric acid
[PB84-131333] 10 p1469 N84-19594
Recent trends and theoretical background in sintering of silicon carbide ceramics
[NASA-TM-77378] 11 p1636 N84-20698
Dynamic compaction of ceramic materials
[AD-A137257] 11 p1638 N84-20708
Technique for removing resin from a molded object
[NASA-TM-77240] 11 p1641 N84-20729
Large scale fire test of cable installed in tunnels
11 p1727 N84-21263
Electrochemical applications of stabilized zirconia
11 p1740 N84-21353
Preparation and properties of electrically conducting ceramics based on indium oxide-rare Earth oxides-hafnium oxide 11 p1741 N84-21360
Microstructure and electrical properties of ceria-based ceramic electrolytes 11 p1741 N84-21361
Mechanisms of catalytic oxidation of hydrocarbons in a solid-electrolyte fuel cell 11 p1742 N84-21366
Reinforcing materials based on magnesium oxide
12 p1783 N84-21637
Microwave sintering of ceramics
[AD-A138402] 12 p1801 N84-21744
Sintering phenomena of non-oxide silicon compounds
[DE84-006599] 12 p1802 N84-21747
Assessment of ceramic materials technology for heat exchangers
[DE84-005748] 12 p1802 N84-21748
Proceedings of the 20th Automotive Technology Development Contractors' Coordination Meeting
[NASA-CR-173412] 12 p1822 N84-21877
Absorbable-susceptor joining of ceramic surfaces
[NASA-CASE-NPO-15640-1] 13 p1962 N84-22748
Ceramic-to-metal bonding for pressure transducers
[NASA-CR-173500] 13 p1963 N84-22753
High temperature failure mechanisms in ceramic polycrystals
[DE84-006641] 13 p1965 N84-22764
Method of fabricating an abradable gas path seal
[NASA-CASE-LEW-13269-2] 13 p1997 N84-22957
West Europe report: Science and technology
[JPRS-WST-84-011] 13 p2038 N84-23224
Qualities of SEP ceramic-ceramic Cerasep composites
13 p2038 N84-23225
Swedish activities in new ceramic materials, processes 14 p2119 N84-23696
Strength evaluation test of pressureless-sintered silicon nitride at room temperature
[NASA-TM-77394] 14 p2119 N84-23700
Rheological study of clay-kaolin aqueous suspensions
[NASA-TM-77363] 14 p2121 N84-23711
Application of NDE methods to green ceramics: Initial results
[DE84-006411] 14 p2130 N84-23769
Ceramic glazes: Basic information
[PB84-150663] 14 p2130 N84-23772
Ceramic tube materials and processing development
[PB84-151653] 14 p2135 N84-23795
Considerations in friction and wear
14 p2154 N84-23903
Development of silicon nitride gas turbine components, phase 2
[BMFT-FB-T-83-322] 15 p2262 N84-24591
The impact resistance of SiC and other mechanical properties of SiC and Si3N4
[NASA-CR-165325] 15 p2301 N84-24809
Development of high temperature ceramic parts for vehicular gas turbines
[BMFT-FB-T-84-006] 15 p2301 N84-24812
Human factors: A necessary tool for industry
[DE84-007531] 15 p2385 N84-25304
Thermo-mechanical and thermal behavior of high-temperature structural materials
[AD-A140520] 16 p2461 N84-25775
Silicon carbide fiber/mullite composites from rapidly solidified aluminosilicate powder
[AD-A140529] 16 p2469 N84-25825
A dynamic fracture assessment of impact damage in structural ceramics 16 p2469 N84-25826

Fabrication of highly dense SiN4 ceramics without additives by high pressure sintering
[NASA-TM-77425] 16 p2470 N84-25829
Deposition stress effects on thermal barrier coating burner rig life
[NASA-TM-83670] 16 p2470 N84-25830
MM&T-Ceramic metal substrates for hybrid electronics: Handbook
[AD-A140689] 17 p2623 N84-26790
Sweden's STU proposes funding for metals, ceramics approach 17 p2640 N84-26890
Leakage currents in degraded multi-layer ceramic capacitors
[AD-A140157] 17 p2662 N84-26985
Influence of microstructure, stress-state and environment on superplastic flow and fracture in glass-ceramics 17 p2677 N84-27050
Shell tile thermal protection system
[NASA-CASE-LAR-12862-1] 18 p2817 N84-27886
Application of NDE methods to green ceramics: Initial results
[DE84-010571] 18 p2819 N84-27896
Development of reaction-bonded silicon carbide (SiSiC)-ceramics
[JUEL-1873] 18 p2819 N84-27901
Intrinsic mechanisms of multi-layer ceramic capacitor failure
[AD-A141050] 18 p2834 N84-27988
Advanced fuel cell development
[DE84-008964] 18 p2834 N84-27994
Advanced Gas Turbine (AGT) Technology Project
[NASA-CR-174629] 18 p2849 N84-28089
Organic materials for ceramic molding processes
[NASA-TM-77438] 19 p2997 N84-28991
Pressure filtration of ceramic pastes. 4: Treatment of experimental data
[NASA-TM-77454] 19 p2997 N84-28992
Organosilane polymers. 5: Hydrosilyl-modified polycarbosilane precursors for silicon carbide
[AD-A141546] 19 p2999 N84-29002
Organosilane polymers. 6: Branched polysilahydrocarbon precursors for silicon carbide
[AD-A141556] 19 p2999 N84-29003
Organosilane polymers, 8
[AD-A141627] 19 p2999 N84-29004
Determination of the optimum crystallization conditions of a high thermal expansion glass-ceramic
[DE84-009734] 19 p3000 N84-29014
Development of fine-structured components for gas discharge displays
[BMFT-FB-T-84-031] 19 p3000 N84-29015
Research on the crystal growth and dielectric properties of high permittivity ferroelectric materials
[AD-A142125] 19 p3111 N84-29767
Self-propagating high-temperature synthesis of ceramics in vacuum
[AD-A142506] 20 p3162 N84-30079
Study of mechano-chemical machining of ceramics and the effect on thin film behavior
[AD-A142542] 20 p3162 N84-30080
Ceramics for fusion devices
[DE84-011409] 20 p3162 N84-30082
Ceramic to metal attachment system — magnetohydrodynamic generators
[DE84-011095] 20 p3163 N84-30085
Graphite-ceramic RF Faraday-thermal shield and plasma limiter
[DE84-010960] 20 p3163 N84-30086
High resolution electron microscopy studies of the early stages of decomposition in alloys and ceramics
[DE84-020802] 20 p3163 N84-30087
Investigation of the role of sintering in gas-solid interactions
[DE84-010962] 20 p3163 N84-30089
Lead zirconate-lead titanate (PZT) ceramics from organic-derived precursors
[DE84-009921] 20 p3164 N84-30095
Corrosion resistance of selected ceramic materials to nitric acid
[PB84-178870] 20 p3164 N84-30098
Ceramic-glass-metal seal by microwave heating
[DE84-011283] 20 p3196 N84-30295
Elastic domain wall waves in ferroelectric ceramics and single crystals
[AD-A142393] 20 p3308 N84-31011
Property screening and evaluation of ceramic turbine materials
[AD-A142739] 21 p3343 N84-31210
Comparative studies of vapor and liquid-phase impregnation of porous silicon nitride and silicon carbide materials
[DE84-012867] 21 p3359 N84-31309
The wetting of ceramic opaque suspensions on oxidized alloy surfaces
[AD-A142899] 21 p3370 N84-31381
Ceramic heat exchanger design methodology
[DE84-010581] 21 p3370 N84-31385
Effect of crystallization of grain boundary phase on the high temperature strength of silicon nitride ceramics
[DE84-011786] 21 p3371 N84-31392
Observations on the sliding wear of ceramics
[DE84-012344] 21 p3372 N84-31395
Conference Grant for 2nd World Congress on Biomaterials
[AD-A143129] 21 p3454 N84-31915
Processing science to increase the reliability of ceramics
[AD-A143207] 22 p3559 N84-32539
Electronically conductive ceramics for high temperature oxidizing environments
[DE84-014506] 22 p3561 N84-32549
Ceramic component manufacturing technology development — silicon carbide tubing for industrial waste heat recovery
[PB84-215276] 22 p3561 N84-32550
DC (Direct-Current) partial-discharge-environmental screening of space TWTs (Traveling Wave Tubes)
[AD-A143230] 22 p3586 N84-32710
Swedish research in high-temperature ceramics, superalloys 22 p3651 N84-33142
Non-destructive evaluation techniques, high temperature ceramic component parts for gas turbines
[NASA-TM-77755] 23 p3694 N84-33413
Ceramics as substitutes for scarce metals 23 p3704 N84-33479
Multilayer ceramic capacitor
[AD-D011166] 23 p3742 N84-33723
Mechanical response of ceramics to creep loading 23 p3760 N84-33830
Mechanics of microcrack toughening in ceramics 23 p3760 N84-33831
High temperature ceramic interface study
[NASA-CR-174728] 23 p3836 N84-34331
Creep of LaCrO-3Cr ceramic-metallic material 24 p3877 N84-34568
Tape casting of Honeywell PZT type 3 powder
[AD-A144215] 24 p3888 N84-34623
Strengthening and strength uniformity of structral ceramics
[AD-A144302] 24 p3889 N84-34625
Sinterable ceramic powders from laser heated gas phase reactions and rapidly solidified ceramic materials
[AD-A144439] 24 p3889 N84-34627

CEREBELLUM
Correlation between individual alpha-rhythm parameters and operator's performance while subjected to maximum information input 21 p3453 N84-31909

CEREBRAL CORTEX
Neuromagnetic localization of two components of the transient visual evoked response to patterned stimulation
[AD-A132546] 05 p0712 N84-14667
Evaluation of factors producing visual evoked response variability
[AD-A133917] 06 p0688 N84-15772
Neurophysiological approaches to higher brain functions
[PB84-175769] 17 p2746 N84-27434
Bilateral carotid ligation and effects of electromagnetic field on conditioned reflex retention and cerebral nucleic acid levels 20 p3258 N84-30677
Reactions of cerebral cortex neurons to alternating magnetic field on glutamic acid 20 p3258 N84-30681

CEREBROSPINAL FLUID
Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] 13 p2019 N84-23095

CEREBRUM
Prevention of acute mountain sickness by dexamethasone
[AD-A131533] 01 p0114 N84-10737
Use of electromagnetic field in patients following a disruption of cerebral circulation 07 p1044 N84-16768
Cerebral metabolism and blood brain transport: Toxicity of organophosphorous compounds
[AD-A142705] 22 p3630 N84-33005

CERENKOV EFFECT
U CERENKOV RADIATION

CERENKOV RADIATION
Stimulated Cerenkov radiation beam monitor
[AD-A132817] 05 p0744 N84-14889
Prospects for Cerenkov ring imaging at hadron colliders 06 p0913 N84-15934
The cosmic ray energy spectrum from 2 x 10-17 to 10-e-19 EV 08 p1248 N84-18148
Stimulated Cerenkov-Raman scattering
[AD-A136473] 09 p1387 N84-19061
Cerenkov radiation from bunched electron beams, revised
[AD-A137533] 11 p1729 N84-21280
Diffraction effects in Cerenkov radiation
[AD-A137540] 11 p1729 N84-21281
A Cerenkov-Raman maser
[AD-A139275] 14 p2150 N84-23883
A stochastic model for photon noise induced by charged particles in multiplier phototubes of the space telescope fine guidance sensors
[NASA-TP-2337] 16 p2556 N84-26398
Cerenkov radiation generated by periodic electron bunches in a finite air path
[AD-A142063] 19 p3101 N84-29700
Measurement of LINAC bunch parameters using the Cerenkov effect
[AD-A143128] 21 p3493 N84-32136
Radiation from intense electron beams associated with the Cherenkov mechanism
[AD-A143350] 22 p3577 N84-32657
Time development of Cerenkov radiation
[AD-A143225] 22 p3653 N84-33155
High power millimeter wavelength coherent radiation sources
[AD-A144481] 24 p3909 N84-34759

CERIUM
The relative abundances of Sn, Te, Xe, Ba and Ce
[NASA-CR-174599] 03 p0465 N84-13064
An investigation of the structure and high temperature mechanical properties of oxide dispersion strengthened alloys
[AD-A139359] 14 p2128 N84-23758
Preparation of mixed perovskite oxides for blue-green lasers
[AD-A142195] 19 p3111 N84-29768

CERIUM COMPOUNDS
NT CERIUM OXIDES

CERIUM OXIDES
Defect interactions at high concentrations in solid oxide electrolytes
[DE83-016849] 03 p0455 N84-12992

CERMETS
Low-power radiation-hard GaAs RAM
[AD-A132325] 04 p0526 N84-13457
Structure, preparation and properties of refractory compounds and systems (hard materials and hard metals)
[NASA-TM-77076] 07 p0974 N84-16309
Coating with overlay metallic-cermet alloy systems
[NASA-CASE-LEW-13639-2] 18 p2813 N84-27855
Overlay metallic-cermet alloy coating systems
[NASA-CASE-LEW-13639-1] 23 p3716 N84-33555
Oxidation characteristics of molybdenum-zirconium oxide cermets
[NASA-TM-77622] 23 p3723 N84-33594
Creep of LaCrO-3Cr ceramic-metallic material 24 p3877 N84-34568

CERTIFICATION
Pressure system recertification at NASA-Langley Research Center
[NASA-TM-85733] 04 p0543 N84-13576
Research towards and development of aerospace vehicle noise certification with emphasis on propeller aircraft and helicopters 06 p0767 N84-15026
Certification experience with methods for minimum crew demonstration 06 p0778 N84-15101
IMCS relflight certification requirements and design specifications
[NASA-CR-170968] 08 p1102 N84-17167
Study of noise-certification standards for aircraft engines. Volume 3: Selection and evaluation of engine-noise-certification concept
[AD-A137805] 11 p1614 N84-20563
Field evaluation of proposed ICAO annex 16 takeoff noise certification procedure for propeller-driven airplanes not exceeding 5700 kg
[DFVLR-FB-83-34] 12 p1901 N84-22378
Post-test data report for the space shuttle full-scale AFRSI sequence of environments test (OS-305-1 to -5) in the NASA/Ames Research Center 11x11-foot wind tunnel
[NASA-CR-167684] 13 p1938 N84-22603
Apparatus for certification of angular-displacement transducers 13 p1973 N84-22806
Certifying onboard software: A total progressive approach 15 p2269 N84-24625
Development testing: Use of sea level test beds and rigs 16 p2453 N84-25726
The certification of polycarbonate transparencies: An appeal for reasonable requirements
[AD-P003225] 17 p2596 N84-26638
Evaluation of proposed human subject certification tests for self-contained breathing apparatus
[PB84-172212] 17 p2748 N84-27447
Safety study: Airport certification and operations
[PB84-917002] 19 p2960 N84-28761

An extended real-time microwave airplane position system 24 p3850 N84-34419
CESIUM
NT CESIUM VAPOR
NT CESIUM 137
Continued investigation of the atomic physics of flashlamp pumped cesium-neon lasers
[AD-A130223] 01 p0086 N84-10561
The organic geochemistry of deep ground waters and radionuclide-partitioning experiment: Under hydrothermal conditions
[DE83-015784] 04 p0554 N84-13651
An assessment of the benefits of using infrared thermography to measure the temperature of discrete electronic components operating in a vacuum
[AD-A134350] 07 p0997 N84-18465
CESIUM COMPOUNDS
NT CESIUM IODIDES
Intercalate phonon densities of states for alkali-graphite compounds
[DE83-016515] 02 p0188 N84-11225
CESIUM HALIDES
NT CESIUM IODIDES
CESIUM IODIDES
Deposition of cesium iodide on papylene
[DE83-017839] 04 p0605 N84-13992
CESIUM ISOTOPES
NT CESIUM 137
CESIUM PLASMA
Two-dimensional MHD boundary layers in argon-cesium plasmas
[EUT-83-E-139] 10 p1587 N84-20400
CESIUM VAPOR
Development of a cesium-vapor-lamp system for triggering photothyristors — for power conversion applications in electric utility substations
[DE83-902691] 02 p0215 N84-11407
CESIUM 137
Aerial radiological survey of Area 11, Nevada Test Site
[DE84-000440] 04 p0554 N84-13650
CESSNA AIRCRAFT
NT CESSNA 210 AIRCRAFT
CESSNA MILITARY AIRCRAFT
U MILITARY AIRCRAFT
CESSNA 210 AIRCRAFT
Extinguisher agent behavior in a ventilated small aircraft
[FAA-CT-83-30] 07 p0949 N84-16158
CFRP
U CARBON FIBER REINFORCED PLASTICS
CHAFF
Bistatic radar cross sections of chaff
[AD-A133967] 05 p0667 N84-14384
Results of foil cloud experiments performed at Esrange (Kiruna, Sweden) and Andenes (Andoya, Norway) during the Energy Budget Campaign, November 1981 — wind measurement
[BMFT-FB-W-83-012] 07 p1034 N84-16710
Radar chaff: A bibliography
[AD-A135928] 09 p1302 N84-18513
Bistatic radar cross sections of horizontally oriented chaff
[AD-A140903] 17 p2654 N84-26975
CHAINS
Kinematics and dynamics of multi-rigid-body open-chain systems: Application to robot manipulators
08 p1204 N84-17851
Grid-based line drawing quantization
[AD-A138194] 12 p1861 N84-22261
A numerical algorithm for chained aggregation and modified chained aggregation
[AD-A142394] 20 p3280 N84-30822
Thermistor chain observations during MILDEX (mixed layer dynamics experiment)
[AD-A143933] 23 p3803 N84-34114
CHAIRS
U SEATS
CHALCOGENIDES
NT ALUMINUM OXIDES
NT ANHYDRIDES
NT BERYLLIUM OXIDES
NT BISMUTH OXIDES
NT CADMIUM SELENIDES
NT CADMIUM SULFIDES
NT CADMIUM TELLURIDES
NT CALCIUM OXIDES
NT CARBON DIOXIDE
NT CARBON DISULFIDE
NT CARBON MONOXIDE
NT CHROMITES
NT CHROMIUM OXIDES
NT COBALT OXIDES
NT COPPER OXIDES
NT COPPER SELENIDES
NT COPPER SULFIDES
NT HAFNIUM OXIDES
NT HYDROGEN PEROXIDE
NT HYDROGEN SULFIDE
NT IRON OXIDES
NT LANTHANUM OXIDES
NT LEAD OXIDES
NT LEAD SULFIDES
NT LEAD TELLURIDES
NT LITHIUM OXIDES
NT MAGNESIUM OXIDES
NT MAGNETITE
NT MANGANESE OXIDES
NT METAL OXIDES
NT MIXED OXIDES
NT MOLYBDENUM DISULFIDES
NT MOLYBDENUM OXIDES
NT MOLYBDENUM SULFIDES
NT NICKEL OXIDES
NT NITRIC OXIDE
NT NITROGEN DIOXIDE
NT NITROGEN OXIDES
NT NITROGEN TETROXIDE
NT NITROUS OXIDES
NT OXIDES
NT PERICLASE
NT PEROXIDES
NT PLUTONIUM OXIDES
NT POLYSULFIDES
NT PYROXENES
NT QUARTZ
NT RUTILE
NT SAPPHIRE
NT SELENIDES
NT SILICON DIOXIDE
NT SILICON OXIDES
NT SILVER OXIDES
NT SULFIDES
NT SULFUR DIOXIDES
NT SULFUR OXIDES
NT TELLURIDES
NT TIN TELLURIDES
NT TITANIUM OXIDES
NT TUNGSTEN OXIDES
NT URANIUM OXIDES
NT VANADIUM OXIDES
NT YTTRIUM OXIDES
NT ZINC OXIDES
NT ZINC SELENIDES
NT ZINC SULFIDES
NT ZINC TELLURIDES
NT ZIRCONIUM OXIDES
Photoelectrochemical cells including chalcogenophosphate photoelectrodes
[NASA-CASE-LAR-12958-1] 13 p2007 N84-23019
New materials from high temperature synthesis
[DE84-014125] 22 p3664 N84-33231
CHAMBERS
Diffuser/ejector system for a very high vacuum environment
[NASA-CASE-MRS-25791-1] 18 p2797 N84-27749
CHANCE-VOUGHT MILITARY AIRCRAFT
U MILITARY AIRCRAFT
CHANDLER MOTION
U POLAR WANDERING (GEOLOGY)
CHANGE DETECTION
Land cover change monitoring within the east central Louisiana study site: A case for large area surveys with LANDSAT multispectral scanner data
[E84-10031] 02 p0236 N84-11562
Actual state and recent evolution of the French coast observed by remote sensing using LANDSAT recordings
03 p0399 N84-12606
Use of remote sensing for land use policy formulation
[E84-10117] 14 p2167 N84-23977
Application of LANDSAT data to the study of urban development in Brasilia
[E84-10142] 16 p2507 N84-26090
Impact of LANDSAT MSS sensor differences on change detection analysis 20 p3212 N84-30408
CHANNEL CAPACITY
Capacity of mismatched Gaussian channels
[AD-A134962] 08 p1145 N84-17455
Estimation of channel capacity of the time variable multipath channel
[LFD-208] 15 p2318 N84-24912
Capacity of generalized mismatched Gaussian channels
[AD-A141399] 19 p3083 N84-29569
I/O channel interface
[NBS-FIPS-PUB-60-2] 22 p3637 N84-33057
CHANNEL FLOW
NT OPEN CHANNEL FLOW
Investigation of two-component two-phase channel flow with heat supply for application in inside cooled turbine blades 02 p0221 N84-11447
Calculation of unsteady flow in tubes of combustion engines with special regard to multiple branching
[REPT-82.8] 03 p0370 N84-12410
The core region of channel flows
06 p0837 N84-15452
Computation of turbulent gas-particle suspension flows in channels 06 p0839 N84-15470
Transition to turbulence in plane channel flow
[NASA-CR-173149] 07 p1000 N84-16486
Flow technical problems with transitions between partial and complete filling and with flow measurement in channel sections. — sewage flow
[TUM-SFB-81] 08 p1160 N84-17552
Transition to turbulence in plane channel flows
[NASA-CR-172298] 09 p1313 N84-18577
Experimental investigation of channel meandering
[REPT-5/1983] 09 p1336 N84-18724
Study of unsteady turbulent boundary layers
[AD-A138156] 12 p1816 N84-21837
Multicolor printing plate joining
[NASA-CASE-LEW-13598-1] 13 p1992 N84-22930
Theoretical studies of solid particles in laminar and turbulent flows
[KU-SFB-80/T/223] 14 p2146 N84-23863
The source of Mangalia Vales
15 p2426 N84-25573
Mixed boundary-value problems pertaining to profile of supersonic nozzles and channels
17 p2645 N84-26919
Turbulent flow of aerosol in rotating channels of turbomachines 17 p2649 N84-26839
Injection of drag reducing additives into turbulent water flows: Results from factorial design
[AD-A141675] 19 p3024 N84-29177
Analytical and numerical study of the flow in a shock tube with an area change at the diaphragm section
[UTIAS-TN-255] 21 p3399 N84-31563
The structure of the vorticity field in turbulent channel flow. Part 1: Analysis of instantaneous fields and statistical correlations
[NASA-TM-86019] 22 p3593 N84-32753
Improved monogroove heat pipe design: Insulated liquid channel with bridging wick
[NASA-CASE-MSC-20497-1] 24 p3899 N84-34692
CHANNEL MULTIPLIERS
Proton electrostatic analyzer
[AD-A133588] 06 p0848 N84-15528
Method and apparatus for enhancing microchannel plate data
[DE84-014498] 24 p3899 N84-34690
CHANNELS
Planar channeling radiation from relativistic positrons and electrons in LiF
[DE84-002800] 07 p1081 N84-17033
Conductivity mapping of underground flow channels and moisture anomalies in carbonate terrain using electromagnetic methods
[DE84-004098] 08 p1178 N84-17677
A transmission line bridge for the diagnostics of plasma channels
[AD-A139286] 14 p2228 N84-24362
Theory of beam channel hydrodynamics
[AD-A139595] 14 p2229 N84-24365
Distributed feedback bistability in channel waveguides
14 p2236 N84-24417
Tortuosity of lightning return stroke channels
[NASA-TM-86104] 18 p2883 N84-28295
CHANNELS (DATA TRANSMISSION)
Status of the SLAC SNOOP diagnostic module for FASTBUS
[DE83-012715] 02 p0290 N84-11903
The relations between the numerical control of the engine and other aircraft functions
03 p0315 N84-12062
Effects of integrated maintenance on the definitions of onboard equipments — Mirage 2000 aircraft
03 p0316 N84-12068
Standard NIM digital bus (NIM/GPIE)
[DE83-017865] 04 p0522 N84-13435
Mathematical analysis of digital phase locked loops over fading communication channels
05 p0664 N84-14364
Digital communications over satellite channels
05 p0664 N84-14365
Effects of cochannel interference on QPSK systems in a nonlinear satellite channel 05 p0671 N84-14414
Bit weighting and soft decision demodulation for image compression & error control
[AD-A134187] 07 p1054 N84-16825
Test Operations Procedure (TOP): Data transmission equipment
[AD-A134711] 08 p1145 N84-17449
Pluribus satellite IMP (Interface Message Provision) development mobile access terminal network
[AD-A136256] 09 p1298 N84-18486

Advanced aircraft electrical system control technology demonstrator. Phase 1: Requirements analysis & preliminary design. Phase 2: Detailed design
[AD-A136758] 10 p1428 N84-19337
Study of a Tracking and Data Acquisition System (TDAS) in the 1990's
[NASA-CR-173262] 10 p1433 N84-19368
Breakout cables for short haul fiber optic systems
11 p1728 N84-21270
General Purpose Bus Interface Unit (GPBIU) system test software design
[AD-A138005] 12 p1770 N84-21543
Multibus Avionic Architecture Design Study (MAADS)
[AD-A138226] 12 p1770 N84-21548
IEEE 488 bus pseudo-controller linking talker with listener
[DE84-007093] 12 p1878 N84-22238
A study of error detection and correction codes
[AD-A139398] 14 p2156 N84-23917
The design, simulation and developmental testing of the Space Shuttle Data Bus System
15 p2269 N84-24624
H. F. Frequency management by frequency sharing as assisted by models updated in real-time
[AD-A139696] 15 p2321 N84-24936
Design of a CO2 laser transceiver package for space-to-space optical communication
[BLEV-R-64.225] 16 p2482 N84-25913
The identification and inversion of acoustic multipath data at long range in the ocean
[AD-P003123] 16 p2533 N84-26264
User's guide for ERB-7 SEFDT. Volume 3: Quality control report for year-2
[NASA-CR-170616] 16 p2581 N84-26552
Radiochannel with curved antenna utilizing three-dimensional excitation 17 p2632 N84-26836
Pulse and interval distributor with sensor control
17 p2637 N84-26867
Land Mobile Satellite Service (LMSS) channel simulator: An end-to-end hardware simulation and study of the LMSS communications links
[NASA-CR-173744] 18 p2828 N84-27956
A statistical channel model for adaptive HF communications via a severely disturbed ionosphere
[AD-A141237] 18 p2829 N84-27960
A note on average mutual information for spherically invariant processes
[AD-A141401] 19 p3083 N84-29570
Decentralized estimation in communication networks with delay
[AD-A142376] 20 p3174 N84-30155
Performance of digital communications over selective fading channels
[AD-A142427] 20 p3174 N84-30158
MIL-STD-1553 interface application notes
[AD-P003539] 21 p3332 N84-31143
A common 1553B I/O channel for the F-16
[AD-P003546] 21 p3333 N84-31150
Advanced cockpit-systems integration
[AD-P003569] 21 p3337 N84-31174
Proceedings of the 2nd AFSC (Air Force Systems Command) Avionics Standardization Conference. Volume 4: Tutorial: MIL-STD-1553 multiplex data bus
[AD-A142779] 21 p3342 N84-31202
The application of convolutional codes to continuous phase modulated communication channels
21 p3381 N84-31457
High speed low-cost ways to get messages from a sender to a receiver when some channels linking them become inoperative
[AD-A142831] 21 p3386 N84-31488
Analysis of modern analog and digital communication channels from a manager's perspective
[AD-A143161] 21 p3387 N84-31494
Prelaunch absolute radiometric calibration of the reflective bands on the LANDSAT-4 protoflight Thematic Mapper
[E84-10180] 21 p3428 N84-31751
Spectral characterization of the LANDSAT Thematic Mapper sensors
[E84-10184] 21 p3429 N84-31755
Analysis of space telescope data collection systems
[NASA-CR-171129] 21 p3464 N84-31958
Simulator-probe for diagnostic testing of short-wave radio channels 22 p3567 N84-32595
Performance simulation for unit-memory convolutional codes with byte-oriented Viterbi decoding algorithm
22 p3573 N84-32630
Satellite communication of real-time packet video images
[AD-A143613] 23 p3730 N84-33643
Selection of data from busses for test
[AD-D011160] 23 p3813 N84-34176

CHANNELTRONS
U CHANNEL MULTIPLIERS

CHAOTIC CLOUD PATTERNS
U CLOUDS (METEOROLOGY)

CHAPMAN SHEAR LAYER
U SHEAR LAYERS

CHAPMAN-ENSKOG THEORY
The collapse of the local, Spitzer-Haerm formulation and a global-local generalization for heat flow in an inhomogeneous, fully ionized plasma
03 p0466 N84-13080

CHAPMAN-JOUGET FLAME
U CHEMICAL EQUILIBRIUM
U DETONATION
U FLAME PROPAGATION

CHARACTER RECOGNITION
The effects of character stroke width on the visibility of a head-coupled display
[AD-A132046] 04 p0484 N84-13183
Operator performance on flat-panel displays with line and cell failures
[AD-A142340] 20 p3265 N84-30716
Report on functional design specification for the automated alphanumeric data entry system
[AD-A142518] 20 p3266 N84-30725
Correlation between individual alpha-rhythm parameters and operator's performance while subjected to maximum information input 21 p3453 N84-31909
Search command for character strings and words in computer files on CMS (Conversational Monitor System)
[PB84-201243] 22 p3639 N84-33068

CHARACTERISTIC EQUATIONS
U EIGENVALUES
U EIGENVECTORS

CHARACTERISTIC FUNCTIONS
U EIGENVALUES
U EIGENVECTORS

CHARACTERISTIC METHOD
U METHOD OF CHARACTERISTICS

CHARACTERISTICS
Energy efficient engine fan component detailed design report
[NASA-CR-165466] 18 p2795 N84-27737

CHARACTERIZATION
Characterization of hydroxylammonium nitrate (HAN) at various pressures and temperatures
[AD-A131574] 02 p0203 N84-11324
Characterization of carbon fiber composites using acousto-ultrasonic techniques
[AD-A132305] 04 p0506 N84-13317
Characterization of aluminum oxide layers (pretreatment of plated aluminum sheet metal for adhesive bonding)
[MBB-BB-549/83-O] 07 p0977 N84-16330
Studies in boron chemistry
[AD-A135364] 09 p1280 N84-18360
Characterization of acid rain for source identification. Task 1: Sulfur isotope rationing
[DE84-006510] 12 p1845 N84-22030
Hereditary subdirect irreducibility in graphs
[MC-ZW-193/83] 13 p2038 N84-23221
Characterization of pressure transducers for future cryogenic wind tunnels 16 p2476 N84-25873
Development and application of SIMS (Secondary Ion Mass Spectrometry) characterization techniques for the study of impurities and impurity motion in (HgCd)Te and CdTe
[AD-A140712] 17 p2619 N84-26759
Characterization of Acetylene Terminated Sulfone (ATS-G)
[AD-A141348] 18 p2819 N84-27897
Real-time X-ray diffraction: Applications to materials characterization 18 p2939 N84-28644
Property screening and evaluation of ceramic turbine materials
[AD-A142739] 21 p3343 N84-31210
Characterization of high powered laser diodes — spacecraft communication 24 p3904 N84-34728

CHARACTERS
U SYMBOLS

CHARCOAL
NT ACTIVATED CARBON

CHARGE CARRIERS
NT FREE ELECTRONS
NT HOLES (ELECTRON DEFICIENCIES)
NT MINORITY CARRIERS
Large-area mercuric iodide photodectors
[DE83-013035] 03 p0441 N84-12898
Studies of the electronic properties of two-dimensionally confined carriers in MIS (Metal-Insulator-Semiconductor) Inversion/Accumulation layers, heterojunctions and quantum wells
[AD-A134094] 05 p0752 N84-14935
Investigation of charge coupled devices for signal processing
[AD-A139820] 15 p2329 N84-24965
CO-2 laser heating of silicon and applications
[DE84-008273] 15 p2339 N84-25042
Leakage currents in degraded multi-layer ceramic capacitors
[AD-A140157] 17 p2662 N84-26965
Persistant relaxation of excess charge carriers in epitaxial pure n-GaAs 18 p2824 N84-27931
Impact ionization in semiconductors by microwave field in the presence of an arbitrarily oriented constant magnetic field 18 p2825 N84-27932
Semiconductors investigated by time resolved Raman absorption and photoluminescence spectroscopy using femtosecond and picosecond laser techniques
[AD-A141361] 19 p3029 N84-29209
Radiation upset threshold detector apparatus
[AD-D011030] 19 p3111 N84-29769
High-speed thyristors on weakly doped GaAs
22 p3568 N84-32600
Mechanisms of electrical conductivity in olivine
[DE83-017313] 22 p3588 N84-32723
Infrared absorption spectrum of free carriers in polar semiconductors
[DE84-013276] 22 p3667 N84-33248

CHARGE COUPLED DEVICES
Predevelopment of IR-CCD components
[BMFT-FB-T-83-133] 03 p0456 N84-13001
Applications of analog Change Coupled Devices (CCD's)
[BMFT-FB-T-83-141] 03 p0456 N84-13002
Overview of digital-image processing
[DE84-000156] 04 p0583 N84-13848
LEC GaAs for integrated circuit applications
[NASA-CR-173267] 07 p1079 N84-17014
Distance measurement to line of sight obstacles close to roads, a commission from Statens Vaeg och Trafikinstitute (VTI) — distance measuring with a continuous wave laser
[FOA-C-30333-E1] 08 p1165 N84-17586
The GOES X-ray imager feasibility demonstration
[PB84-111970] 09 p1319 N84-18614
Optical processing in radon space
[AD-A137033] 10 p1579 N84-20343
A CCD photometric camera for satellite observation
[AD-A137214] 11 p1660 N84-20833
The applications of silicon liquid crystal light valves to optical data processing: A review
12 p1905 N84-22409
Signal processing circuit development
[AD-A138648] 13 p1982 N84-22870
Programmable scan/read circuitry for charge coupled device imaging detectors — spacecraft attitude control and star trackers
[NASA-CASE-NPO-15345-1] 13 p2042 N84-23247
Pulse-train residue arithmetic circuit using multiple-valued charge-coupled devices and its application to digital filter
[AD-P002345] 14 p2191 N84-24136
Tolerance analysis and related measurements on MVL-CCD's (Multiple-valued-Charge-Coupled Devices)
[AD-P002346] 14 p2191 N84-24137
Tabular methods for the design of CCD (Charge-Coupled Devices) multiple-valued circuits
[AD-P002347] 14 p2192 N84-24138
Investigation of charge coupled devices for signal processing
[AD-A139820] 15 p2329 N84-24965
Laser pulse detection method and apparatus
[NASA-CASE-NPO-16030-1] 15 p2339 N84-25037
Study on critical assessment of IR CCD arrays for spaceborne reflected and thermal IR imagers
[ESA-CR(P)-1881] 17 p2616 N84-26744
Innovative research in the design and operation of large telescopes for space: Aspects of giant telescopes in space 17 p2765 N84-27560
All solid state CCD image sensor
[BMFT-FB-T-84-046] 19 p3113 N84-29778
NASA-Texas Planetary Program
[NASA-CR-173798] 19 p3121 N84-29842
Economic application of assembly robots: Elements of sensor applications to programmable feeders
[PB84-193200] 21 p3415 N84-31656
Development of a spectroradiometer with a linear network of detectors from standard CCD
[INPE-3095-TDL/165] 22 p3657 N84-33180
Multispectral linear array visible and shortwave infrared sensors 23 p3781 N84-33977

CHARGE DISTRIBUTION
Survey of He(+)/He(2+) abundance ratios in energetic particle events 03 p0474 N84-13117
Calculation of ion charge-state distribution in ECR ion sources
[DE84-000517] 04 p0600 N84-13957
A molecular orbital study of atmospherically important species
[AD-A133656] 05 p0649 N84-14267
Species-specific densities of states of ga and as in the chemisorption of oxygen on GaAs(110)
[AD-A134416] 07 p1080 N84-17024

Influence parameters of impact grinding mills
[NASA-TM-77352] 10 p1471 N84-19607
Acceleration of high charge density electron beams in the SLAC linac
[DE84-012415] 21 p3497 N84-32161
Time development of Cerenkov radiation
[AD-A143225] 22 p3653 N84-33155

CHARGE EFFICIENCY
Maintenance-free, deep-discharge, lead-acid battery for photovoltaic applications: Phase two
[DE83-013561] 02 p0214 N84-11401
Development of maintenance-free lead batteries
[BMFT-FB-T-83-150] 02 p0216 N84-11419
Effect of antimony on lead-acid battery negative electrode
[DE83-014680] 03 p0369 N84-12404
Application features and considerations in advanced lead-acid and nickel/iron EV batteries
[DE83-017936] 04 p0528 N84-13472
Pulsed-laser atom probe: Recent applications
[DE82-020093] 07 p1010 N84-16551
Lead-acid battery with improved cycle life and increased efficiency for lead leveling application and electric road vehicles
[BMFT-FB-T-83-225] 10 p1489 N84-19734
Use of the Li-Al/FeS battery in advanced vehicle propulsion systems
[DE84-007275] 15 p2421 N84-25538
Performance of the Lester battery charger in electric vehicles
[NASA-CR-173726] 18 p2833 N84-27982
Secondary alkaline batteries
[DE84-010963] 20 p3179 N84-30191
Effect of charging methods on battery electrodes
[DE84-010287] 20 p3179 N84-30196
EValuation of a 96V EV 1000 battery pack at temperature extremes
[PB84-187723] 20 p3182 N84-30217
Evaluation of an 96V ALCO 2200 battery pack at temperature extremes
[PB84-187731] 20 p3182 N84-30219
Effects of standtime on the available capacity of lead-acid and nickel/iron electric vehicle batteries
[DE84-013452] 22 p3587 N84-32721
Separator qualification for aerospace nickel-cadmium cells 23 p3737 N84-33682
Second plateau voltage in nickel-cadmium cells 23 p3737 N84-33684
Prediction of battery life and behavior from analysis of voltage data 23 p3737 N84-33685
Nickel cadmium charge control concepts — ampte cram 23 p3738 N84-33688
Deep reconditioning testing for near Earth orbits 23 p3738 N84-33689
Special test methods for batteries 23 p3738 N84-33695

CHARGE EXCHANGE
Heat conduction process in Tokamak hot-ion plasmas
[DE83-014884] 01 p0150 N84-10987
Charge transfer cross-sections for N V and S III ions interacting with hydrogen atoms in astrophysical plasmas 02 p0307 N84-12014
Low energy nuclear physics and accelerator development
[DE83-013364] 03 p0438 N84-12877
Cross sections for charge transfers of highly ionized ions in hydrogen atoms
[IPPJ-AM-30] 03 p0443 N84-12912
Recent developments in the understanding of pion-nucleus scattering
[DE84-001017] 04 p0597 N84-13942
Calculation of ion charge-state distribution in ECR ion sources
[DE84-000517] 04 p0600 N84-13957
Investigation of the dynamics and threshold behavior of endothermic negative ion-neutral reactions
[DE84-001369] 04 p0602 N84-13975
Io: Escape and ionization of atmospheric gases
[NASA-CR-174580] 05 p0702 N84-14607
Impurity poloidal asymmetries and plasma rotation in the PDX Tokamak 05 p0748 N84-14914
Numerical analyses for scrape-off plasmas in FER divertor chamber 11 p1734 N84-21313
Sloshing-ion equilibria in the TARA endplugs
[DE84-003360] 11 p1738 N84-21337
Excitation of simple atoms by slow magnetic monopoles
[DE84-006209] 12 p1903 N84-22393
Formation of negative ions by charge transfer: He(-) to Cl(-)
[DE84-005718] 13 p2041 N84-23243
An overview of charging of large space structures in polar orbit
[AD-P002100] 16 p2521 N84-26186
Correlated charge changing interactions and K X-ray emission in ion-atom collisions
[DE84-006645] 18 p2930 N84-28580

CHARGE SEPARATION
U POLARIZATION (CHARGE SEPARATION)

CHARGE TRANSFER
Novel interactions of the charge-balancing cations with framework defects and trapped hydrogen atoms in holmium-exchanged Y zeolites
[DE83-014204] 03 p0433 N84-12839
Large-area mercuric iodide photodectors
[DE83-013095] 03 p0441 N84-12898
Development of an XUV amplifier 06 p0848 N84-15532
Emission of short-wavelength photons from ion-surface charge exchange
[AD-A133183] 06 p0914 N84-15942
Thermal and electrical interaction of tantalum with a low temperature chemically active plasma flow
[NASA-TM-77374] 06 p0920 N84-15980
Semiconductor drift chamber: An application of a novel charge transport scheme
[DE84-002875] 07 p1082 N84-17038
Laser-induced electron-phonon processes on metal surfaces
[AD-A136435] 09 p1321 N84-18632
Laser-induced surface migration via surface plasmons
[AD-A136436] 09 p1321 N84-18633
Laser-induced neutralization and negative-ion formation in surface scattering
[AD-A135907] 09 p1322 N84-18641
Picosecond laser studies of excited state processes
[AD-A136137] 09 p1323 N84-18646
Charge storage in doped poly(thiophene)
[AD-A137085] 10 p1455 N84-19506
Atomic hydrogen beam probing with spectroscopic technique 11 p1736 N84-21324
Many electron effects in the photoelectron spectra of condensed nitric oxide
[AD-A138130] 12 p1791 N84-21681
Space plasma high-voltage drainage experiment (A0054) 15 p2274 N84-24655
Effect of laminated structure in materials based on complexes with charge transfer 18 p2826 N84-27943
Photographic characteristics of polymer composite including complex with charge transfer 18 p2826 N84-27944
Gas-liquid correlation of ionization energies
[AD-A141255] 18 p2930 N84-28578
Differential charge transfer and continuum electron capture studies for ions in atomic hydrogen
[DE84-009675] 19 p3102 N84-29708
A laboratory study of aircraft precipitation static charging
[AD-A142561] 21 p3443 N84-31848
Probing a plasma with high-energy beams of atoms using threshold detectors
[DE84-013360] 21 p3502 N84-32195
Low-energy collisions excited atoms
[AD-A144192] 24 p3961 N84-35087

CHARGE TRANSFER DEVICES
NT CHARGE COUPLED DEVICES
CTD transect of the Kuroshio Extension 27-42 deg N, 152 deg E
[AD-A131329] 01 p0111 N84-10721
Image processing for low resolution target finders
[FOA-C-30297-E1,E3] 07 p0962 N84-16238
Breadboard stellar tracker system test report
[NASA-CR-170973] 08 p1102 N84-17166
Image dissector tube star trackers performance: Advantages and drawbacks as compared to those of charge transfer device star trackers 15 p2266 N84-24606
Improved charge injection device and a focal plane interface electronics board for stellar tracking
[NASA-CR-171066] 19 p3012 N84-29092

CHARGED PARTICLES
NT ALPHA PARTICLES
NT ANIONS
NT ANTIPROTONS
NT ARGON PLASMA
NT BETA PARTICLES
NT CATIONS
NT CESIUM PLASMA
NT COLD PLASMAS
NT COLLISIONAL PLASMAS
NT COLLISIONLESS PLASMAS
NT CONDUCTION ELECTRONS
NT COSMIC PLASMA
NT CYLINDRICAL PLASMAS
NT DENSE PLASMAS
NT DEUTERONS
NT ELECTRON PLASMA
NT ELECTRONS
NT ENERGETIC PARTICLES
NT FERRIC IONS
NT FREE ELECTRONS
NT HEAVY NUCLEI
NT HELIUM PLASMA
NT HIGH ENERGY ELECTRONS
NT HIGH TEMPERATURE PLASMAS
NT HOT ELECTRONS
NT HYDROGEN PLASMA
NT HYPERNUCLEI
NT LASER PLASMAS
NT MAGNETICALLY TRAPPED PARTICLES
NT MANGANESE IONS
NT METAL IONS
NT METALLIC PLASMAS
NT N ELECTRONS
NT NEGATIVE IONS
NT NONEQUILIBRIUM PLASMAS
NT NONUNIFORM PLASMAS
NT NUCLEI (NUCLEAR PHYSICS)
NT ODD-EVEN NUCLEI
NT PARTONS
NT PHOTOELECTRONS
NT PLASMA CLOUDS
NT PLASMA FOCUS
NT PLASMA LAYERS
NT PLASMA SHEATHS
NT PLASMA SLABS
NT PLASMAS (PHYSICS)
NT POSITIVE IONS
NT POSITRONS
NT PROTONS
NT RADIATION BELTS
NT RELATIVISTIC ELECTRON BEAMS
NT RELATIVISTIC PLASMAS
NT ROTATING PLASMAS
NT SOLAR ELECTRONS
NT SOLAR PROTONS
NT SOLAR WIND
NT STELLAR WINDS
NT STRONGLY COUPLED PLASMAS
NT THERMAL PLASMAS
NT TOROIDAL PLASMAS
Theoretical research on charged particle beam and other plasma systems
[AD-A130381] 01 p0149 N84-10976
Phase-slip centers and their interactions
[AD-A130914] 01 p0153 N84-11006
The high zenith angle limits of cosmic ray access to an Earth satellite
[AD-A130216] 01 p0166 N84-11092
Transient electron transport in gases
[DE83-009188] 02 p0291 N84-11906
Feasibility of a laser or charged-particle-beam fusion-reactor concept with direct electric generation by magnetic-flux compression
[DE83-015735] 03 p0381 N84-12482
Nonlinear force on an unpolarized relativistic test particle to second order in the total field in a nonequilibrium beam-plasma system
[AD-A131631] 03 p0444 N84-12919
Wave and particle observations associated with the beam plasma discharge in a space simulation chamber 04 p0489 N84-13210
Fracto-emission from polymers
[AD-A132462] 04 p0506 N84-13314
A study of the charged particle calibration requirements for the Deep Space Network 04 p0519 N84-13414
PATH: A lumped-element beam-transport simulation program with space charge
[DE84-001330] 04 p0599 N84-13953
Small-angle X-ray scattering study of micelle formation in mixtures of butadiene homopolymer and styrene-butadiene block copolymer
[AD-A133645] 05 p0659 N84-14330
Surface analysis by particle beams 06 p0814 N84-15301
The problem of tracking charged particles in the cores of high energy jets in a high rate environment 06 p0911 N84-15916
Prospects for Cerenkov ring imaging at hadron colliders 06 p0913 N84-15934
Spacecraft/plasma interactions and their influence on field and particle measurements — conferences
[ESA-SP-198] 08 p1115 N84-17253
Contributions to the theory of quantum 1/f noise 08 p1236 N84-18082
A diode model of high energy particle emission in the plasma focus device 10 p1582 N84-20368
Fluorescence and electron energy loss cross sections in mercuric bromide
[AD-A137153] 11 p1629 N84-20657
The beam-density effect on energy loss of a relativistic charged particle beam
[AD-A139051] 13 p2041 N84-23241

Discharges on a negatively biased solar array in a charged particle environment
[NASA-TM-83644] 14 p2118 N84-23690
A detailed consideration of resonance radiation trapping in the argon inductively coupled plasma
[AD-A139369] 14 p2222 N84-24334
Linear induction accelerator
[AD-A139458] 14 p2222 N84-24336
Linear energy transfer spectrum measurement experiment (P0006) 15 p2276 N84-24665
Growth of electrically charged soot particles in flames 15 p2291 N84-24751
On the form of the collective bremsstrahlung recoil force in a nonequilibrium relativistic beam-plasma system
[AD-A139695] 15 p2410 N84-25467
Apparatus for measuring charged particle beam
[NASA-CASE-MFS-25641-1] 18 p2929 N84-28575
High energy channeling and its applications
[DE84-007251] 19 p3103 N84-29715
Transverse field focused system
[DE84-011070] 20 p3298 N84-30942
Solar flares and magnetospheric particles: Investigations based upon the ONR-602 experiment
[AD-A143144] 21 p3526 N84-32336
Free charged particle behavior in intense laser fields
[DE84-013700] 22 p3653 N84-33160
Autogenerator of beams of charged particles
[DE84-014242] 22 p3654 N84-33163
Turbulent diffusion for the radial twist map
[IPPJ-685] 23 p3826 N84-34267
Particle acceleration 23 p3836 N84-34334
Fracto-emission from polymers
[AD-A144149] 24 p3888 N84-34622

CHARGING
Research, development and demonstration of advanced lead-acid batteries for utility load leveling
[DE84-002683] 05 p0676 N84-14444
Development of a new charger system
[BMFT-FB-T-83-305] 15 p2328 N84-24977
A battery charger and state of charge indicator
[NASA-CR-173961] 23 p3743 N84-33725

CHARM (PARTICLE PHYSICS)
Multiquark exotics
[DE83-017958] 04 p0601 N84-13964
Theoretical perspectives on strange physics
[DE83-018085] 04 p0601 N84-13965

CHARPY IMPACT TEST
The impact resistance of SiC and other mechanical properties of SiC and Si3N4
[NASA-CR-165325] 15 p2301 N84-24809

CHARTS
NT BOND GRAPHS
NT FLOW CHARTS
NT GRAPHS (CHARTS)
NT METEOROLOGICAL CHARTS
NT NAUTICAL CHARTS
Mapping, charting and geodesy at the Defense Mapping Agency
[AD-A130344] 01 p0100 N84-10650
Multispectral Data Processing System (MDPS)
[AD-A133426] 06 p0896 N84-15816

CHASSIS
High power bogie for 350 km/h. Design and definition — locomotives
[MBB-UD-376-OE] 05 p0687 N84-14518
Vehicle dynamic analysis with flexible components
[AD-P002939] 14 p2197 N84-24179

CHEBYSHEV APPROXIMATION
Computational methods for static and dynamic systems and engineering applications
[PB83-227314] 01 p0135 N84-10884
Spectral methods for partial differential equations
[NASA-CR-172248] 02 p0280 N84-11832
Higher order approximations in fluid mechanisms: Compact to spectral 06 p0839 N84-15466
A comparative survey of numerical methods for the linear generalized Abel integral equation
[MC-NW-155/83] 07 p1065 N84-16915
Spectral methods for the Euler equations: Chebyshev methods and shock-fitting
[NASA-CR-172295] 08 p1095 N84-17118
Computational Fluid Dynamics, volume 1
[VKI-LS-1984-04-VOL-1] 16 p2491 N84-25980
Recent developments of spectral and pseudospectral methods in fluid dynamics 16 p2492 N84-25985
A spectral collocation method for the Navier-Stokes equations
[NASA-CR-172365] 19 p3021 N84-29159
Studies of Chebyshev spectral methods and multigrid methods
[AD-A142014] 20 p3245 N84-30596
The exponential accuracy of Fourier and Tchebyshev differencing methods
[NASA-CR-172435] 22 p3645 N84-33108
The time evolution of spectral discretizations of hyperbolic systems
[NASA-CR-172432] 22 p3645 N84-33113

CHECKOUT
Advanced Ultra-Violet (UV) aircraft fire detection system. Volume 3: Ground Support Equipment (GSE) for system check-out
[AD-A130298] 01 p0006 N84-10039
An introduction to the AXIS test box
[RSRE-MEMO-3583] 03 p0418 N84-12729
The design and implementation of debugging systems for languages with advanced control structures 04 p0578 N84-13811
Avionics fault tree analyzer 06 p0771 N84-15053
The debugging of real time multiprocessor systems: An integrated solution proposal
[CISE-2067] 06 p0899 N84-15637
LSI (Large Scale Integrated) design for testability: Design, demonstration and testability analysis
[AD-A135899] 09 p1306 N84-18550
Operational experience with the National Transonic Facility 14 p2094 N84-23565
Low power 2-of-3-valued CMOS self-checking circuits
[AD-P002334] 14 p2190 N84-24125
PDSS/IMC qualification test user's manual — payload development support system image motion compensator
[NASA-CR-171025] 15 p2389 N84-25334
Development of standardized specifications for screening space level integrated circuits and semiconductors
[NASA-CR-171100] 19 p3012 N84-29093
An operating system and memory switch for the S-1 computer
[DE84-013094] 20 p3267 N84-30731
Software debugging devices for microprocessors 24 p3941 N84-34952

CHECKOUT EQUIPMENT
U TEST EQUIPMENT

CHELATE COMPOUNDS
U CHELATES

CHELATES
Metal-chelate polymers: Structural/property relationships as a function of the metal ion
[AD-A140205] 16 p2471 N84-25839

CHELATION
Investigation to diminish the heavy metal concentrations in sewage sludges with organic complexing reagents
[BMFT-FB-T-83-158] 07 p1027 N84-16660
Inhibition of gravitropism in oat coleoptiles by calcium chelation 09 p1352 N84-18831

CHEMICAL ANALYSIS
NT ELECTROPHOTOMETRY
NT GAS ANALYSIS
NT GAS SPECTROSCOPY
NT LASER SPECTROSCOPY
NT MICROANALYSIS
NT NEUTRON ACTIVATION ANALYSIS
NT OZONOMETRY
NT POTENTIOMETRIC ANALYSIS
NT QUALITATIVE ANALYSIS
NT QUANTITATIVE ANALYSIS
NT SPECTROSCOPIC ANALYSIS
NT URINALYSIS
NT VOLUMETRIC ANALYSIS
Structure and properties of intercalated graphite fiber-polymer composites
[AD-A130832] 01 p0032 N84-10198
Separation as asphaltenes using high-resolution supercritical-fluid chromatography 01 p0038 N84-10240
Studies of the voltammetric determination of trace metals in seawater
[AD-A131164] 02 p0190 N84-11233
Multi-detector gel permeation chromatography and its application to the analysis of industrial samples
[MQAD-808] 03 p0351 N84-12283
Process, product, and waste-stream monitoring with fiber optics
[DE83-001102] 03 p0441 N84-12899
A gas turbine combustor test facility for fuel composition investigations
[AD-A132479] 04 p0487 N84-13201
Laser-induced fluorescence spectroscopy for improved chemical analysis
[DE84-000629] 04 p0494 N84-13243
Aging of polymeric materials
[AD-A132250] 04 p0506 N84-13318
Improved polymers for enhanced-oil-recovery synthesis and rheology
[DE83-017371] 04 p0507 N84-13324
The determination of research octane number of gasoline fuels by octane analyzer
[AD-A132427] 04 p0509 N84-13335
Assessment of quality of data on tapes from the hydrogeochemical and stream sediment reconnaissance
[DE83-017697] 04 p0554 N84-13647
Characterization of reactants, reaction mechanisms and reaction products leading to extreme acid rain and acid aerosol conditions in southern California
[PB83-252825] 04 p0561 N84-13697
The Crab Nebula: A theoretical and observational study 04 p0617 N84-14074
Identification and characterization of elastomer vulcanizate materials using pyrolytic gas liquid phase chromatography
[AD-A134056] 05 p0658 N84-14325
Increased confidence in spectrum matching by use of a retention time library — compound identification in industrial effluents
[PB83-232090] 06 p0802 N84-15229
Surface analysis by particle beams 06 p0814 N84-15301
Simulated precipitation reference materials, 4
[PB83-139378] 06 p0883 N84-15742
Bone mineral analysis of rat vertebrae following space flight: COSMOS 1129
[AD-A133178] 07 p1042 N84-16757
Quantitative Secondary Ion Mass Spectroscopy (SIMS)
[AD-A134195] 08 p1125 N84-17315
Techniques for the inorganic analysis in a controlled ecological life support system 08 p1204 N84-17853
Study of the characteristics of high pressure proportional counters for the detection of radioactive gases
[AD-A135803] 09 p1280 N84-18356
Evaluation of organic carbon analyzers for space application — for water reclamation
[NASA-CR-171755] 09 p1317 N84-18607
Metallurgical and mechanical tests of materials
[AD-A136347] 09 p1327 N84-18668
Water resources data for Illinois, water year 1982. Volume 1: Illinois except Illinois River Basin
[PB84-120112] 09 p1338 N84-18738
Voltammetric studies of Zomepirac sodium and its determination in tablets by differential-pulse polarography
[AD-A136982] 10 p1455 N84-19489
Improving a chemical method to determine the epoxy equivalent in epoxy resins
[REPT-I-4/241/720/83.063] 10 p1469 N84-19593
Corrosion resistance of ceramic materials to hydrochloric acid
[PB84-131333] 10 p1469 N84-19594
Water resources data for North Dakota: Water year, 1982
[PB84-136589] 10 p1528 N84-20008
Water resources data: Iowa water year, 1982
[PB84-137215] 10 p1528 N84-20009
Acid precipitation in southeastern Wyoming
[PB84-132521] 10 p1533 N84-20039
Chemical application of diffusion quantum Monte Carlo 10 p1560 N84-20218
Three-dimensional graphics for scientific data display and analysis
[DE84-004075] 10 p1565 N84-20253
Chemistry and application of ozone and ozone/UV light for water reuse-2
[PB84-140557] 11 p1630 N84-20684
Design and application of two stage evaporative cooling systems 11 p1640 N84-20720
Origin of the Moon: In search of the holy grail — volcanic glass 11 p1754 N84-21451
Chemical ionization mass spectrometry: New methodology
[AD-A138037] 12 p1791 N84-21678
Physical and chemical investigations on real catalyst surfaces
[BMFT-FB-T-83-273] 13 p1958 N84-22729
Geologic investigations of outer planets satellites
[NASA-CR-173497] 13 p2091 N84-23544
Research briefings for the Office of Science and Technology Policy, the National Science Foundation and selected federal departments and agencies, 1983
[PB84-161322] 14 p2124 N84-23732
A review of classical silicate-rock analysis and recommended modifications of classical methods of analysis
[USGS-CIRC-864] 14 p2175 N84-24027
Attempt at dust debris collection with stacked detectors (A0138-2) 15 p2276 N84-24668
The chemistry of micrometeoroids (A0187-1) 15 p2276 N84-24669
X-ray diffraction phase analysis of process and pollution control device samples
[PB84-168832] 15 p2367 N84-25201
Aerosol characteristics on the Alboran sea, 9-16 october 1982
[AD-A139892] 15 p2371 N84-25227
Magnetic properties of Martian surface material
[NASA-CR-173491] 15 p2425 N84-25566
Labeled cells as research, diagnostic and therapeutic tools 15 p2429 N84-25589

Literature review on occurence and methodology for determination of nickel, chromium, manganese and arsenic species in air
[PB84-172105] 16 p2463 N84-26788
Nonenzymatic formation of energy-rich lactoyl and glyceroyl thioesters from glyceraldehyde and a thiol
[NASA-CR-173633] 17 p2617 N84-26748
Atmospheric volatile hydrocarbon composition at five remote sites in Northwestern North Carolina
[PB84-177930] 17 p2620 N84-26786
Change in spectrum of blood hormones under influence of centimeter range microwaves 17 p2742 N84-27412
Nitroguanidine wastewater pollution control technology: Phase 2 wastewater characterization and analytical methods development for organics
[AD-A141178] 18 p2811 N84-27844
Photochemical oxidation of hydrogen iodide by oxygen
[BLL-CE-TRANS-7986-(9022.09)] 19 p2987 N84-28926
Mechanism of operation and design considerations for surface acoustic wave device vapor sensors
[AD-A141537] 19 p3027 N84-29195
Trace analysis in quartz
[AD-A142425] 20 p3148 N84-29988
Vapor spill pipe monitor
[DE84-011103] 20 p3190 N84-30267
Analytical methods for determination of inorganic anions
[BLL-WH-582-(9091.9F)] 21 p3358 N84-31301
Supercritical and chromotography/supersonic jet spectroscopy
[DE84-012124] 21 p3360 N84-31312
Versatility of laser induced fluorescence line narrowing in chemical analysis
[DE84-012834] 21 p3360 N84-31316
Development of normalized operative mode for making deposits for chemical analysis in MIG/MAG welding
[CETIM-I.S.13.826] 21 p3362 N84-31331
Analysis of polynuclear aromatic hydrocarbons in particulate matter by luminescence techniques
[PB84-161682] 21 p3363 N84-31333
Analytical characterization of coatings and thin overlayers
[DE84-011902] 21 p3371 N84-31389
Lithium cell reactions
[AD-A142976] 21 p3391 N84-31522
Composition and structure of multicomponent vanadium- and niobium-base coatings
[BLL-M-35657-(5828.4)] 22 p3550 N84-32474
Obtaining iron-55 with high radiochemical purity
[CSIR-TRANS-1751] 22 p3553 N84-32494
Low-chromium heat-resisting ferritic alloys strengthened by the Chi Phase
[PB84-199041] 22 p3557 N84-32524
Investigation and rehabilitation to extend service life of DSS-13 antenna concrete foundation 22 p3574 N84-32637
Preliminary chemical analysis of rain water in Cubatao: Ambient effects
[INPE-2857-PRE/396] 23 p3792 N84-34053
Contributions towards analytical chromatography
[BLL-M-29666-(5828.4)] 24 p3880 N84-34579

CHEMICAL ATTACK
NT INTERGRANULAR CORROSION
Surface modification of some titanate minerals subjected to hydrothermal chemical attack
[AERE-R-10799] 01 p0039 N84-10249
High-temperature corrosion of iron and iron-based alloys in sulfur-containing atmospheres
[DE83-013843] 01 p0045 N84-10290
Novel composite membranes
[PB83-243170] 03 p0351 N84-12284
Chemical erosion of first-wall materials by atomic hydrogen at high temperatures
[DE83-017161] 03 p0450 N84-12962
The localized corrosion of aluminum alloys: A review
[AD-A132582] 04 p0498 N84-13269
Scale prevention and removal by hydrodynamic fluid treatment 11 p1640 N84-20721
Turbulent boundary layer thermochemical attack on coated walls
[DE84-005892] 12 p1817 N84-21843
Producible alternative to CdTe for epitaxy (PACE-2) of LWIR HgCdTe
[AD-A138255] 12 p1914 N84-22468

CHEMICAL BONDS
NT COVALENT BONDS
NT HYDROGEN BONDS
Polymerisation of acrolein and its derivatives. 2: Polymerisation of acrolein and alpha-alkyl substituted acrolein in the presence of metallic sodium
[BLL-M-28706-(5828.4)] 01 p0048 N84-10308
Study of factors leading to regrouping of the chain structure during ionic diene polymerization
[BLL-M-28719-(5828.4)] 01 p0048 N84-10309
Electronic-relaxation processes in polyatomic molecules
[DE83-006738] 01 p0144 N84-10945
Measurements, in vivo, of parameters of the dopamine system
[DE83-017964] 03 p0414 N84-12709
Solitons and polarons in quasi-one dimensional conducting polymers and related materials
[DE83-015233] 03 p0435 N84-12853
A molecular orbital study of atmospherically important species
[AD-A133656] 05 p0649 N84-14267
High-resolution solid-state (13)C NMR study of the templating cations in tetrapropylammonium fluoride silicalite: The effect of steric interactions
[DE83-011706] 06 p0925 N84-16013
Synthesis of energetic prepolymers
[AD-A135770] 09 p1288 N84-18409
Resin composition
[NASA-TM-77457] 10 p1451 N84-19477
Structure of glasses containing transition metal ions
[DE84-004211] 10 p1468 N84-19591
Polyphosphorus compounds containing phosphorus-nitrogen bonds
[AD-A137722] 11 p1628 N84-20655
Many electron effects in the photoelectron spectra of condensed nitric oxide
[AD-A138130] 12 p1791 N84-21681
Theoretical studies of metal clusters and of chemisorption on metals
[AD-A138175] 12 p1791 N84-21683
Chemical bonding technology for terrestrial photovoltaic modules
[NASA-CR-173460] 12 p1842 N84-22008
Momentum dependent line shapes in photoemission
[AD-A137968] 12 p1913 N84-22461
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-3] 13 p1953 N84-22698
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-4] 13 p1953 N84-22699
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-5] 13 p1953 N84-22700
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-6] 13 p1953 N84-22701
Effect of interfacial bonding on the strength of adhesion of elastomers. 3: Interlinking by molecular entanglements
[AD-A138760] 13 p1963 N84-22757
Considerations in friction and wear 14 p2154 N84-23903
Oxide bond energies for the calibration of matrix effects in secondary ion mass spectrometry
[AD-A139633] 15 p2413 N84-25483
Proceedings of the 5th Symposium on applied surface analysis
[AD-A140744] 17 p2768 N84-27576
The role of chemical bonding in adhesion
[AD-A140937] 18 p2818 N84-27891
A twisted P-C double bond: Synthesis and structure of a (Methylene)phosphine Fe-CO-4 complex
[AD-A141502] 19 p2984 N84-28907
Chemical bonding, interdiffusion and electronic structure at InP, GaAs, and si-metal interfaces
[AD-A141809] 19 p2988 N84-28936
High-efficiency solar cells fabricated by vacuum MO-CVD 19 p3047 N84-29329
Durability of adhesive bonds with ionic bonds at the interface — propellant binder adhesion 20 p3144 N84-29960
Research Reports of the Faculty of Engineering, no. 31
[DEC/1983/31] 21 p3476 N84-32034
Hydrogen-bond energies of dimer formation and UV absorption spectra of mono-methyl substituted 2-pyridones 21 p3477 N84-32040

CHEMICAL CLEANING
NT PICKLING (METALLURGY)
Advanced cleaning by mass finishing
[DE84-004850] 10 p1472 N84-19612
Cleaning compound efficiency; test method for aircraft surface cleaners
[AD-A138515] 12 p1764 N84-21504
Improved materials characterization for spacecraft applications 24 p3865 N84-34494
Preparation and cleanliness verifications of a space simulation chamber for contamination sensitive test specimens 24 p3865 N84-34495

CHEMICAL CLOUDS
NT BARIUM ION CLOUDS
Optical, radio and computer simulation studies of the Brazil ionospheric modification experiment of 8 September 1982
[AD-A135143] 08 p1186 N84-17731
Effects of chemical releases by the STS-3 Orbiter on the ionosphere
[NASA-CR-171032] 15 p2367 N84-25204
A review of the basic concepts of dense gas dispersion with special regard to modelling of heat transfer
[QUEL-1512/84] 16 p2487 N84-25952
Phenomenology and modeling of heavy gas dispersion
[DE84-008800] 18 p2878 N84-28272
A modeling analysis program for the JPL Table Mountain Io sodium cloud data
[NASA-CR-173971] 23 p3844 N84-34386

CHEMICAL COMPOSITION
NT CARBON DIOXIDE CONCENTRATION
NT STELLAR COMPOSITION
Composition gradients in electrolyzed LiCl-KCl melts
[DE83-012347] 01 p0037 N84-10237
Magnetic properties and structure of monocrystals of Fe-24 percent Cr-15 percent Co-8 percent W alloys
[BLL-M-35131-(5828.4)] 01 p0040 N84-10253
The X-ray-diffraction analysis of corrosion products of Fe-Ni-Cr alloys formed in molten-nitrate salts
[DE83-013317] 01 p0046 N84-10293
Analysis and synthesis of 1,2,4-butanetriol
[AD-A130875] 01 p0052 N84-10338
Intercomparison of stable-element content of foods by statistical methods
[DE83-014029] 01 p0118 N84-10764
Determination of composition profile for isomorphic binary alloys
[INPE-2813-RPE/438] 02 p0193 N84-11251
A statistical examination of the effect of composition on the freezing points of hydro-carbon mixtures
[AD-A131000] 02 p0203 N84-11321
The application of multivariate source/receptor models to aerosol mass apportionment
[DE83-014592] 02 p0245 N84-11603
Multi-detector gel permeation chromatography and its application to the analysis of industrial samples
[MQAD-808] 03 p0351 N84-12283
A gas turbine combustor test facility for fuel composition investigations
[AD-A132479] 04 p0487 N84-13201
Spectrographic investigation of gold by Grimm lamp
[CSIR-SR-283] 04 p0493 N84-13233
Molecular basis for local compositions in liquid-mixture models
[DE83-016604] 04 p0495 N84-13250
Calculations of composition boundaries of saturated phases
[DE84-001665] 04 p0499 N84-13274
The determination of research octane number of gasoline fuels by octane analyzer
[AD-A132427] 04 p0509 N84-13335
Solid-oxide fuel cells
[DE83-017925] 04 p0527 N84-13469
Measurement of friction and wear on modified surfaces
[AD-A132364] 04 p0544 N84-13583
Yields photosynthetic efficiencies, and proximate chemical composition of dense cultures of marine microalgae, a subcontract report
[DE83-011992] 04 p0570 N84-13757
An abundance analysis of the cool barium stars 04 p0620 N84-14087
Specific heat of British, Czechoslovakian, French, German, Japanese, Polish, Romanian and Swedish stainless steels, state-of-the-art report
[AD-A132991] 05 p0655 N84-14306
Novel hard metal compositions and properties
[DE84-001736] 05 p0656 N84-14310
Raman study of graphitic-carbon concentrations in the Western Arctic
[DE84-001090] 05 p0700 N84-14598
Some observable indicators of s-process environments
[DE84-001720] 05 p0763 N84-15006
Stability of mechanical properties of cold-drawn rolled metal with high-temperature thermomechanical treatment
[BLL-M-35292-(5828.4)] 06 p0803 N84-15233
Observations on the vanadium-nitrogen system and on pure metallic vanadium
[CSIR-TRANS-1708] 06 p0805 N84-15243
Pit initiation resistance of ferritic stainless steels in chloride environments from 800 to 2600C
[DE84-000355] 06 p0807 N84-15258
Synthesis and characterization of some thermotropic nematic and cholesteric polymers 06 p0808 N84-15262

Polymer characterization by electrohydrodynamic ionization mass spectrometry: Probing composition and chemistry of mixtures in solution
06 p0809 N84-15264
Experience in surface analysis applied to technical material problems 06 p0815 N84-15303
Coaxial measurement of the translational distribution of CS produced in the laser photolysis of CS2 at 193nm
[AD-A134613] 07 p0970 N84-16286
Microstructure and phase composition of sputter-deposited zirconia-yttria films
[DE84-003352] 07 p1082 N84-17039
Nucleosynthesis in stellar explosions
[DE84-002787] 07 p1090 N84-17087
Chemical generation and deactivation of oxygen singlet delta
[AD-A135392] 08 p1124 N84-17308
Friction and wear reduction of 440C stainless steel by ion implantation
[DE84-003255] 08 p1133 N84-17371
Fast diffusion of iron in single crystal rutile and iron doped rutile
[DE84-004021] 08 p1236 N84-18079
Proposals for VIRA (Venus International Reference Atmosphere): Chemical composition of atmosphere below 100 km
[PR-830] 08 p1244 N84-18134
Commentary on Prognoz-9 satellite
09 p1264 N84-18253
Investigations on the system boron-carbon silicon
[NASA-TM-77375] 09 p1275 N84-18324
Thermal conductivity behavior of boron carbides
[NASA-CR-173165] 09 p1316 N84-18600
Evaluation of NRL glass for fiber optics, phase 2
[AD-A136017] 09 p1390 N84-19076
A procedure for investigating the composition of the plasma arc
[BLL-M-35454-(5828.4)] 09 p1391 N84-19083
Excitonic solids
[AD-A135972] 09 p1396 N84-19115
Some investigations about the Carson opacities
[DE84-003785] 09 p1415 N84-19262
Key to aluminium alloys. Designations, compositions, trade names of aluminium materials, first edition
[ISBN-3-87017-160-X] 10 p1458 N84-19522
Temporal and spatial gaseous HCl concentrations in the near field STS postlaunch environment, Kennedy Space Center, Florida
[AD-A136935] 10 p1532 N84-20032
A molecular identification device for individual sub-micron aerosols: Engineering breadboard device
[AD-A137139] 10 p1536 N84-20067
Observation of the interstellar ice grain feature in the Taurus molecular clouds
[DE84-004316] 10 p1595 N84-20453
Transport properties of fluorite oxides
11 p1740 N84-21355
Fluctuations in chemical composition of titanium alloy Beta-solid solution in preseparation stage
12 p1786 N84-21650
A study of the magnetic and metallurgical properties of Sm(Co,Fe,Cu, Zr) sub z alloys near z = 8.5
[AD-A138253] 12 p1798 N84-21728
Changing climate
[PB84-148576] 12 p1862 N84-22135
Surface-enhanced Raman spectroscopy of electrochemically characterized interfaces. Relations between Raman scattering intensity and surface coverage for simple anionic adsorbates
[AD-A139054] 13 p1957 N84-22721
A method for evaluating the surface concentrations of 2 like-charged ions simultaneously adsorbed at an electrode-solution interface
[AD-A139074] 13 p1957 N84-22724
Weld penetration variations
[DE84-007915] 13 p1998 N84-22963
A new method for obtaining individual component spectra from those of complex mixtures
[AD-A139262] 14 p2122 N84-23719
Chemistry of processible acetylene-terminated imides
[AD-A139417] 14 p2122 N84-23720
Application of a spray deposition method for reversed phase liquid chromatography-mass spectrometry
[PB84-159029] 14 p2124 N84-23730
The chemistry of micrometeoroids (A0187-1)
15 p2276 N84-24669
Chemical and isotopic measurements of micrometeoroids by secondary ion mass spectrometry (A0187-2) 15 p2276 N84-24670
The effects of fuel composition upon heat transfer in gas turbine combustors 15 p2290 N84-24740
Skeletal muscle metabolism of sea-level natives following short-term high-altitude residence
[AD-A139323] 15 p2380 N84-25284
Resonant coherent anti-Stokes Raman scattering
[ONERA-P-1983-3] 16 p2487 N84-25954
Observations of the interstellar ice grain feature in the Taurus molecular clouds 16 p2570 N84-26493
Effects of alloy composition on cyclic flame hot-corrosion attack of cast nickel-base superalloys at 900 deg C
[NASA-TP-2338] 17 p2622 N84-26783
Nature of 640-KM seismic boundary
17 p2703 N84-27216
Allomonades: New group of vibrionaceae family microorganisms 17 p2742 N84-27410
Identification of aerosol composition from multi-wavelength lidar measurements
[NASA-CR-173445] 18 p2877 N84-28266
The composition of interstellar grain mantles
18 p2947 N84-28688
Ice in comet dust 18 p2949 N84-28702
Erosion of iron-chromium alloys by glass particles
[NASA-TP-2354] 19 p2993 N84-28965
Properties of aircraft fuels and related materials
[AD-A141068] 19 p3001 N84-29019
Effects of long-term low-level radiofrequency radiation exposure on rats. Volume 6: Hematological, serum chemistry, thyroxine, and protein electrophoresis evaluations
[AD-A141124] 19 p3063 N84-29434
Ductile aluminide alloys for high temperature applications
[DE84-011037] 20 p3156 N84-30038
Hard metal composition
[DE84-011034] 20 p3156 N84-30040
NMP, electrical relaxation, and high pressure electrical conductivity in ion conducting polymers
[AD-A143202] 22 p3546 N84-32451
Cubic silicon nitride in iron-silicon steels
[BLL-M-35653-(5828.4)] 22 p3552 N84-32486
Slavutich high-cobalt WC-Co-matrix alloy
[CSIR-TRANS-1739] 22 p3552 N84-32490
Geology and origin of the Aquila iron deposit in southwestern Michoacan, Mexico
22 p3613 N84-32890
The interpretation of very low frequency Raman scattering from roughened silver electrodes: Clusters, cavities or complexes?
[AD-A143471] 22 p3657 N84-33184
Epitaxial crystallization in the Te-HgTe-CdTe system
[CSIR-TRANS-1745] 22 p3661 N84-33206
Ductile aluminide alloys for high temperature applications
[DE84-014317] 23 p3719 N84-33575
Characterization of polyetheretherketone and other engineering thermoplastics
[DE84-010668] 23 p3725 N84-33603
Detonation parameters for Australian high-explosives composition
[AD-A143655] 23 p3726 N84-33609
Chemical analysis of ions in rain water in natural regions: Correlations with aerosols in the atmosphere
[INPE-2856-PRE/395] 23 p3792 N84-34052
Investigation of rapidly solidified Ni3Al-based alloys
[AD-A144174] 24 p3883 N84-34604

CHEMICAL DEFENSE

Psycho-ergonomic problems presented by the prolonged wearing of gas masks
11 p1698 N84-21073
Selected factors affecting aircrew performance during sustained operations 11 p1698 N84-21074
Aeromedical support in military helicopter operations
16 p2536 N84-26280
Synthesis of resin polymers for chemical agent defense
[AD-A141035] 18 p2818 N84-27692

CHEMICAL EFFECTS

Fuel effects on gas turbine combustion
[AD-A134503] 07 p0954 N84-16187
Human exposure to atmospheric concentrations to selected chemicals, volume 1
[PB84-102540] 08 p1202 N84-17835
Biochemical and histochemical adaptations of skeletal muscle to rat suspension 09 p1354 N84-18849
Use of sperm enzymes to detect genotoxic agents
[AD-A142724] 20 p3260 N84-30691

CHEMICAL ELEMENTS

NT ACTIVATED CARBON
NT ALKALI METALS
NT ALUMINUM
NT AMERICIUM
NT AMERICIUM 241
NT ANTIMONY
NT ARGON
NT ARSENIC
NT ARSENIC ISOTOPES
NT BARIUM
NT BERYLLIUM
NT BERYLLIUM 9
NT BERYLLIUM 10
NT BORON
NT BROMINE
NT CADMIUM
NT CALCIUM
NT CALCIUM ISOTOPES
NT CARBON
NT CARBON 12
NT CARBON 13
NT CARBON 14
NT CERIUM
NT CESIUM
NT CESIUM VAPOR
NT CESIUM 137
NT CHLORINE
NT CHROMIUM
NT COBALT
NT COBALT 60
NT COPPER
NT DEUTERIUM
NT ERBIUM
NT EUROPIUM
NT FLUORINE
NT GADOLINIUM
NT GALLIUM
NT GERMANIUM
NT GOLD
NT HAFNIUM
NT HALOGENS
NT HELIUM
NT HELIUM ISOTOPES
NT HOLMIUM
NT HYDROGEN
NT HYDROGEN ATOMS
NT HYDROGEN IONS
NT HYDROGEN ISOTOPES
NT HYDROGEN PLASMA
NT INDIUM
NT IODINE
NT IODINE ISOTOPES
NT IODINE 131
NT IRIDIUM
NT IRON
NT IRON ISOTOPES
NT ISOTOPES
NT KRYPTON
NT KRYPTON 85
NT LANTHANUM
NT LEAD (METAL)
NT LIQUID HELIUM
NT LIQUID HELIUM 2
NT LIQUID HYDROGEN
NT LIQUID LITHIUM
NT LIQUID NITROGEN
NT LIQUID SODIUM
NT LITHIUM
NT LUTETIUM
NT MAGNESIUM
NT MAGNESIUM ISOTOPES
NT MANGANESE
NT MERCURY (METAL)
NT METALLOIDS
NT MOLYBDENUM
NT NEODYMIUM
NT NEON
NT NEON ISOTOPES
NT NICKEL
NT NIOBIUM
NT NITROGEN
NT NITROGEN IONS
NT NITROGEN 15
NT NUCLIDES
NT ORTHO HYDROGEN
NT OSMIUM
NT OXYGEN
NT OXYGEN ATOMS
NT OXYGEN IONS
NT OXYGEN ISOTOPES
NT OXYGEN PLASMA
NT PALLADIUM
NT PHOSPHORUS
NT PLATINUM
NT PLUTONIUM
NT PLUTONIUM 238
NT POTASSIUM
NT POWDERED ALUMINUM
NT PRASEODYMIUM
NT RADIOACTIVE ISOTOPES
NT RADON
NT RADON ISOTOPES
NT RARE EARTH ELEMENTS
NT RARE GASES
NT REFRACTORY METALS
NT RHODIUM
NT RUBIDIUM
NT RUBIDIUM ISOTOPES
NT RUTHENIUM
NT SAMARIUM
NT SELENIUM

NT SILICON
NT SILVER
NT SILVER ISOTOPES
NT SINTERED ALUMINUM POWDER
NT SODIUM
NT SODIUM VAPOR
NT STRONTIUM ISOTOPES
NT SULFUR
NT TANTALUM
NT TECHNETIUM
NT TELLURIUM
NT THORIUM
NT TIN
NT TITANIUM
NT TRACE ELEMENTS
NT TRITIUM
NT TUNGSTEN
NT URANIUM
NT URANIUM 235
NT URANIUM 238
NT VANADIUM
NT XENON
NT XENON 133
NT YTTERBIUM
NT YTTRIUM
NT ZINC
NT ZIRCONIUM

CHEMICAL ENERGY
NT ENERGY OF FORMATION
New materials for organic photovoltaic cells
[DE83-016845] 03 p0404 N84-12645
Achieving chemical accuracy by quantum Monte Carlo
[DE84-006175] 11 p1746 N84-21392
Study of the contributions of chemical and van der Waal forces to interaction between fluorine and Ar, Kr and Xe, using molecular beam scattering investigations of integral scattering cross sections
[MPIS-1/1984] 23 p3823 N84-34248

CHEMICAL ENGINEERING
ECUT: Energy Conversion and Utilization Technologies program. Chemical Processes project report, FY 1982
[NASA-CR-173212] 07 p1025 N84-16642
Emission-proof valves --- for chemical plants
[BMFT-FB-HA-83-028] 10 p1503 N84-19622
Evaluative report on the National Engineering Laboratory, National Bureau of Standards, fiscal year 1983
[PB84-129673] 11 p1747 N84-21398
Validated Engineering Data Index, 1983 - 1984
12 p1804 N84-21758
Material certification and material-certification effectiveness
[PB84-143270] 12 p1804 N84-21762
Scientology and management of science and technology
[AD-A139084] 14 p2246 N84-24487
Transport phenomena in improved electrochemical cell design for the production of magnesium
[DE84-006436] 19 p2995 N84-28978
Engineering scoping study of the production of hydrogen and oxygen from the cerium oxide-sodium phosphate/carbonate thermochemical cycle
[DE84-010629] 20 p3150 N84-29998
National Science Foundation, volume 1
[PB84-193234] 20 p3316 N84-31061
Review of solar fuel-producing quantum conversion processes
[NASA-CR-173904] 22 p3617 N84-32916
Solar photochemical process engineering for production of fuels and chemicals
[NASA-CR-173910] 22 p3617 N84-32917
Soluble polyacetylenic and polyaromatic polymers and method of making the same
[DE84-014314] 23 p3725 N84-33607

CHEMICAL EQUILIBRIUM
NT ACID BASE EQUILIBRIUM
Equations of state of PBX-9404, LX-07, and RX-26-AF detonation products at pressures above detonation pressure
[DE84-002465] 09 p1290 N84-18424
Electrochemical reduction reactions involving formic acid
[AD-A139479] 14 p2123 N84-23721
Mobility and molecular ions of dimethyl methyl phosphonate, methyl salicylate and acetone
[AD-A140328] 16 p2555 N84-26395
Mechanistic studies of catalytic methanol synthesis
[DE84-008360] 21 p3359 N84-31308
Calorimetric determination of the thermodynamic behavior of reversible liquid-phase reactions for use in energy storage
[DE84-010437] 21 p3507 N84-32218
The controlling reactions during interaction between silicon and carbon
[BLL-M-35673-(5828.4)] 22 p3545 N84-32444
Extensions of electron stimulated desorption measurements. Investigation of gas adsorption on Cu layers deposited on a tungsten (110) surface
[AD-A143779] 23 p3714 N84-33539

CHEMICAL EVOLUTION
Investigation of compounds essential for the origin of life
[NASA-CR-173538] 15 p2378 N84-25272
Chemical evolution of a high-level magma system: The Black Mountain Volcanic Center, Southern Nevada
[DE84-013321] 20 p3243 N84-30587
Carbon and nitrogen abundances in field dwarf stars
24 p3986 N84-35236
Temperature and elemental abundances in the Abell cluster A 576 derived from X-ray observations
[NASA-TM-85103] 24 p3987 N84-35238

CHEMICAL EXPLOSIONS
NT GAS EXPLOSIONS
Optical properties of explosive-driven waves in noble gases
[DE83-015236] 01 p0082 N84-10536
Raman spectroscopies in shock-compressed materials
[DE83-014170] 02 p0190 N84-11236
LARC: Computer codes for Lagrangian analysis of stress-guage data to obtain decomposition rates through correlation to thermodynamic variables
[DE84-002404] 06 p0813 N84-15292
Heron, volume 28, no. 1, 1983. Dynamic elasto-plastic model for reinforced concrete members
[PB84-109057] 08 p1172 N84-17635
Energetic materials separations and specific polymorph preparations via thermal gradient sublimation
[DE84-002830] 09 p1290 N84-18422
Equations of state of PBX-9404, LX-07, and RX-26-AF detonation products at pressures above detonation pressure
[DE84-002465] 09 p1290 N84-18424
Fundamental research on explosives
[DE84-001201] 09 p1290 N84-18425
H Division materials physics
[DE84-007789] 15 p2304 N84-24826
Study of Deflagration-to-Detonation Transition (DDT) in the granular explosive, CP
[DE84-009500] 15 p2305 N84-24828
Organic azides as jet fuel additives: Synthesis of azides and micro-explosion characteristics of droplets
20 p3144 N84-29963

CHEMICAL EXTINGUISHERS
U FIRE EXTINGUISHERS

CHEMICAL FRACTIONATION
Studies of Electron-Beam-Induced decomposition of benzene
[AD-A137241] 10 p1454 N84-19496
Stable isotope studies
[DE84-002436] 10 p1577 N84-20332
Fractionation of chemical elements at ocean-atmosphere interface
17 p2698 N84-27189
Analysis of collagen and noncollagenous proteins in bone particles fractionated by gradient density fractionation
23 p3808 N84-34144

CHEMICAL FUELS
NT AIRCRAFT FUELS
NT AUTOMOBILE FUELS
NT DIESEL FUELS
NT GASOHOL (FUEL)
NT GASOLINE
NT HIGH ENERGY FUELS
NT HYDROCARBON FUELS
NT HYDROGEN FUELS
NT JET ENGINE FUELS
NT JP-4 JET FUEL
NT JP-5 JET FUEL
NT KEROSENE
NT LIQUID FUELS
NT METAL FUELS
NT SLURRY PROPELLANTS
NT SYNTHETIC FUELS
Alternative fuels use in a vehicular gas turbine
15 p2290 N84-24741

CHEMICAL INDICATORS
A battery charger and state of charge indicator
[NASA-CR-173961] 23 p3743 N84-33725

CHEMICAL KINETICS
U REACTION KINETICS

CHEMICAL LASERS
Continued investigation of the atomic physics of flashlamp pumped cesium-neon lasers
[AD-A130223] 01 p0086 N84-10561
Ukrainian Physics Journal (selected articles)
[AD-A131087] 03 p0429 N84-12814
The possibility of amplifying infrared radiation by high-pressure reacting gas
[AD-A131086] 03 p0440 N84-12890
Theoretical study of laser-stimulated chemical vapor deposition processes of importance in microelectronics
[AD-A136433] 09 p1321 N84-18631
Energetics and collision dynamics of electronic transition lasers
[AD-A135894] 09 p1322 N84-18639
Bibliography of Soviet Laser Developments, no. 62, November - December 1982
[AD-A137854] 11 p1663 N84-20851
Bibliography of Soviet Laser Developments, no. 61, September - October 1982
[AD-A137867] 11 p1663 N84-20852
Bibliography of Soviet Laser Developments, Number 63, January-February 1983
[AD-A138742] 13 p1995 N84-22948
Nonlinear interactions between the pumping kinetics, fluid dynamics and optical resonator of CW fluid flow lasers
[AD-A139189] 14 p2150 N84-23882
La Recherche Aerospatiale, Bimonthly Bulletin, number 1983-S, 216/September - October
[ESA-TT-836] 15 p2402 N84-25419
Numerical simulation of a three-dimensional chemical laser flow field including radiation produced by laser induced fluorescence
16 p2498 N84-26026
Primary processes of electronically excited molecules in vapor phase, part 3
[MPIS-12/1983] 18 p2930 N84-28582
Computer modeling of pulsed chemical lasers
[AD-A141889] 19 p3029 N84-29212
Time-dependent oscillations in a CW HF chemical laser unstable resonator
[AD-A142966] 21 p3409 N84-31622
Chemical lasers 21 p3486 N84-32093
CW HF R-branch laser
[AD-D011120] 22 p3601 N84-32813
Alkali-SCl2 chemiluminescence: Vibrational population inversion in the B state of S2
[AD-A143639] 23 p3754 N84-33794
Small continuous wave (CW) HF chemical laser
[AD-A144322] 24 p3908 N84-34756

CHEMICAL MACHINING
NT ELECTROCHEMICAL MACHINING

CHEMICAL PROPERTIES
NT ACIDITY
NT HEAT OF COMBUSTION
NT HEAT OF FORMATION
NT HEAT OF FUSION
NT HEAT OF VAPORIZATION
NT SALINITY
NT THERMOCHEMICAL PROPERTIES
No. 263 chemical and electrochemical properties in molten alkaline hydroxides. 11: Potential-acidity diagram for iron in molten sodium hydroxide at 350 deg C
[BLL-RISLEY-TR-4761-(9091.9F)]
01 p0036 N84-10228
Low temperature behavior of fuels in simulated aircraft tanks
[AD-A130267] 01 p0052 N84-10336
Analysis and syntheals of 1,2,4-butanetriol
[AD-A130875] 01 p0052 N84-10338
Chemical properties of metallic glasses
[DE83-017353] 03 p0357 N84-12322
Environmental behavior of Technetium-99
[DP-1644] 06 p0805 N84-15245
The unique surface properties of gold
06 p0815 N84-15310
On the functional dependence of the freezing point of soils on the composition of water soluble salts in an interstitial solution
[NRC/CNR-TT-2070] 06 p0877 N84-15707
Silicon nitride: A ceramic material with outstanding resistance to thermal shock and corrosion
[NASA-TM-77067] 07 p0978 N84-16336
Chemical and electrochemical properties in molten alkaline hydroxides
[BLL-RISLEY-TR-4854-(9091.9F)]
08 p1123 N84-17298
Chemical and electrochemical properties in molten alkaline hydroxides. 3: Oxide and acid complexes of some metallic cations
[BLL-RISLEY-TR-4858-(9091.9F)]
08 p1123 N84-17299
Structure, inhibition and extinction of polymer diffusion flames
[PB84-101336] 08 p1127 N84-17327
Aviation-fuel property effects on combustion
[NASA-CR-168334] 08 p1139 N84-17407
Properties of fuels employed in a gas turbine combustor program
[AD-A136663] 10 p1470 N84-19600
Sources and sinks for nitrous oxide and experimental studies of the source of atmospheric COS, CS-2 and CH-3-Cl
[NASA-CR-175404] 10 p1531 N84-20030
Overview of zirconia with respect to gas turbine applications
[NASA-TP-2286] 12 p1801 N84-21740

High-temperature CVD heat pipe development
[DE83-017893] 12 p1816 N84-21838
MMH-nitrate and plume deposits from NTO/MMH engines 13 p1941 N84-22620
Chemical properties and film casting of radiation grafted ion-containing polymers
[AD-A138551] 13 p1963 N84-22754
Influence of fuel chemical properties on gas turbine combustors 14 p2107 N84-23634
Fuel property effects on USAF gas turbine engine combustors and afterburners 14 p2107 N84-23635
Fuel property effects on USN gas turbine combustors 14 p2107 N84-23636
Electrochemical and spectroelectrochemical studies of some coordination compounds in high oxidation states
[DE84-006637] 14 p2123 N84-23727
Research and research needs in colloidal interactions
[PB84-161231] 14 p2124 N84-23731
New acid-proof protective coating 14 p2136 N84-23806
Modeling binary alloy solidification processes
[ORNL/CSD-117] 16 p2464 N84-25790
Effect of substrate chemical pretreatment on the tribological properties of graphite films
[NASA-TM-83574] 16 p2470 N84-25831
Liquid crystal polyester-carbon fiber composites
[NASA-CR-172323] 17 p2618 N84-26754
Some properties of epoxy resins used for filament winding and preimpregnating fibres
[AERE-R-10966] 18 p2820 N84-27905
Overview of characterization techniques for high speed crystal growth 18 p2936 N84-28619
Properties of aircraft fuels and related materials
[AD-A141068] 19 p3001 N84-29019
Free radical detection and dynamics in propellant ignition and combustion systems
[AD-A142180] 19 p3002 N84-29023
Aviation fuels, 1983
[DE84-011823] 20 p3166 N84-30106
Properties of polymers: Some uses in electronics, part 1
[DE84-012863] 21 p3370 N84-31386
Nd-3+ Beta prime prime alumina platelet laser
[AD-A142797] 21 p3409 N84-31621
Lubrication of machine elements
[NASA-RP-1126] 21 p3413 N84-31640
Detonation parameters for Australian high-explosives composition
[AD-A143655] 23 p3726 N84-33609

CHEMICAL PROPULSION
NT HYBRID PROPULSION
Evaluation of propellent tank insulation concepts for low-thrust chemical propulsion systems: Executive summary
[NASA-CR-168321] 11 p1636 N84-20699
A review of in situ propellant production techniques for solar system exploration
[NASA-CR-173494] 13 p1936 N84-22595

CHEMICAL REACTION CONTROL
Some aspects of mathematical and chemical modeling of complex chemical processes
[NASA-TM-77055] 07 p0969 N84-16279
Research and research needs in colloidal interactions
[PB84-161231] 14 p2124 N84-23731
Topics in finite time thermodynamics
[DE84-009057] 15 p2416 N84-25502
Photochemical oxidation of hydrogen iodide by oxygen
[BLL-CE-TRANS-7988-(9022.09)] 19 p2987 N84-28926

CHEMICAL REACTIONS
NT ALKYLATION
NT ASSOCIATION REACTIONS
NT BROMINATION
NT CARBOXYLATION
NT CHLORINATION
NT COPOLYMERIZATION
NT CRACKING (CHEMICAL ENGINEERING)
NT DECARBOXYLATION
NT DEHYDROGENATION
NT DENITROGENATION
NT DESULFURIZING
NT DIELS-ALDER REACTIONS
NT ELECTROCHEMICAL OXIDATION
NT ENDOTHERMIC REACTIONS
NT EPOXIDATION
NT EXOTHERMIC REACTIONS
NT FERMENTATION
NT FLUORINATION
NT HALOGENATION
NT HYDROGENATION
NT HYDROGENOLYSIS
NT HYDROLYSIS
NT ION RECOMBINATION
NT METAL-WATER REACTIONS
NT METHANATION
NT METHYLATION
NT NITRATION
NT NITRIDING
NT NITROLYSIS
NT OXIDATION
NT OXIDATION-REDUCTION REACTIONS
NT OXYGEN RECOMBINATION
NT OXYGENATION
NT PHOSPHORYLATION
NT PHOTOCHEMICAL REACTIONS
NT PHOTOCHROMISM
NT PHOTODECOMPOSITION
NT PHOTOLYSIS
NT PHOTOOXIDATION
NT PHOTOSYNTHESIS
NT PYROLYSIS
NT RADIOLYSIS
NT REDUCTION (CHEMISTRY)
NT SULFATION
NT THERMAL DECOMPOSITION
NT THERMAL DISSOCIATION
NT TITRATION
Ignition delay times of propene oxygen argon mixtures
[AD-A130464] 01 p0037 N84-10232
Synthetic fuels from US oil shales: A technical and economic verification of the HYTORT PROCESS
[DE83-005440] 01 p0053 N84-10345
Growth and decay of one-dimensional shock waves in chemically reacting multiphase mixtures
[DE83-011134] 01 p0080 N84-10519
Kinetic studies of the reactions of CH3O2 with NO2 and OH with HNO3
[AD-A130922] 01 p0105 N84-10685
The NEST chemistry computer program: Operations handbook
[AD-A130215] 01 p0121 N84-10788
The quantum dynamics of chemical reactions
[AD-A130160] 01 p0156 N84-11026
Thermal oxidative degradation reactions of perfluoroalkethers
[NASA-CR-168224] 02 p0189 N84-11229
Experimental studies of the geometric and electronic structure of chemisorption bonding
[PB83-243949] 02 p0192 N84-11248
Temperature dependence of hydrolysis of polyimide wire insulation
[AD-A131334] 02 p0200 N84-11301
Evaluation of low melting halide systems for battery applications
[AD-A131330] 02 p0242 N84-11582
Modeling of modification experiments involving neutral-gas release
[DE83-012785] 02 p0250 N84-11634
OI 630.0 nm optical measurements of neutral winds, temperatures and airglow enhancements during the BIME program
[AD-A131695] 03 p0408 N84-12671
Positive ion-molecule reactions in OCS/hydrocarbon mixtures
[AD-A132350] 04 p0493 N84-13237
CI: A computer program for calculation of contact indexes which will correct reaction rates evaluated by mean quantities during simulation of turbulent combustion
[DE84-001000] 04 p0494 N84-13244
Flame fronts with complex chemical networks
[DE84-001175] 04 p0496 N84-13255
Diffusion and sorption of cyclohexane vapor in SBS and SBR copolymers
[AD-A132397] 04 p0506 N84-13315
Computation of turbulent reacting flows: Comparison of various mixing/chemistry interaction models
[DE84-000998] 04 p0534 N84-13514
Chemical reactions in turbulent mixing flows, revision
[AD-A133874] 05 p0647 N84-14258
Amplification of sound by gas phase reactions
[AD-A133747] 05 p0649 N84-14266
Chemical kinetics modeling of engine knock: Preliminary results
[DE84-001236] 06 p0802 N84-15226
Observations on the vanadium-nitrogen system and on pure metallic vanadium
[CSIR-TRANS-1706] 06 p0805 N84-15243
Polymer characterization by electrohydrodynamic ionization mass spectrometry: Probing composition and chemistry of mixtures in solution 06 p0809 N84-15264
New polymers for low-gravity purification of cells by phase partitioning
[NASA-CR-170957] 06 p0809 N84-15267
Influence of Ar + CO2 shielding on the composition of a Cr-Mo-V weld
[BLL-CE-TRANS-5000-(9022.09)] 06 p0851 N84-15550
The number of solutions of an equation from catalysis
[AD-A134555] 07 p1063 N84-16896
A photoacoustic study of chemically active systems
[AD-A134663] 08 p1125 N84-17311
Ozone reactions in aqueous solutions: A bibliography
[PB84-109883] 08 p1127 N84-17325
The ball bearing as a rheological test device
[NASA-TM-83570] 08 p1166 N84-17591
Growth and evaluation of AgGaS2 and AgGaSe2 for infrared nonlinear applications
[NASA-CR-175185] 08 p1234 N84-18066
Synthesis and chemistry of energetic metallotetraazadienes
[AD-A135269] 09 p1278 N84-18344
Synthesis of energetic prepolymers
[AD-A135770] 09 p1288 N84-18409
Picosecond laser studies of excited state processes
[AD-A136137] 09 p1323 N84-18648
Theoretical chemical calculations on molecules of air force interest
[AD-A137203] 10 p1576 N84-20326
Direct numerical simulation of reacting flows 11 p1611 N84-20549
Lean limit phenomena 11 p1612 N84-20552
Electronic spectra of condensed phase under shock conditions
[AD-A137531] 11 p1652 N84-20785
Chemical reactions and molecular aggregation in cryogenic whole air sample matrices
[AD-A137879] 11 p1682 N84-20977
Re-examination of beta-alumina doped with chromium using photoacoustic spectroscopy 11 p1742 N84-21369
Achieving chemical accuracy by quantum Monte Carlo
[DE84-005175] 11 p1746 N84-21392
Bibliography and abstracts of papers pertaining to applied mathematics
[AD-A137823] 11 p1750 N84-21420
Features of physiochemical reaction in aluminum-boron composite material 12 p1783 N84-21636
Nitration of intermetallide TiAl3 12 p1785 N84-21646
Numerical modeling of D-mappings with applications to chemical kinetics
[NASA-TM-84332] 12 p1893 N84-22326
Infrared emission associated with chemical reactions on Shuttle and SIRTF surfaces
[NASA-TM-85875] 12 p1921 N84-22515
Three-dimensional, primitive-variable model for solid-fuel ramjet combustion 13 p1952 N84-22668
The influence of specific reactant-solvent interactions on intrinsic activation entropies for outer-sphere electron transfer reactions
[AD-A139061] 13 p1957 N84-22725
The calculation of the heat transfer associated with the injection of methane gas at the stagnation point of the dissociated boundary layer of the laminar air flow
[AD-A139063] 13 p1990 N84-22918
Chemistry of processible acetylene-terminated imides
[AD-A139417] 14 p2122 N84-23720
Simulation of lubricating behavior of a thioether liquid lubricant by an electrochemical method
[NASA-TP-2316] 14 p2129 N84-23764
Flame propagation in heterogeneous mixtures of fuel drops and air
[NASA-CR-174644] 14 p2131 N84-23775
Thiazine dyes for use in photogalvanic cells
[DE84-009097] 15 p2330 N84-24990
Direct simulations of chemically reacting turbulent mixing layers
[NASA-CR-174640] 16 p2450 N84-25710
Synthesis of refractory compounds with gaseous combustion reactions
[AD-A140296] 16 p2472 N84-25842
Numerical simulation of a three-dimensional chemical laser flow field including radiation produced by laser induced fluorescence 16 p2498 N84-26026
Mobility and molecular ions of dimethyl methyl phosphonate, methyl salicylate and acetone
[AD-A140328] 16 p2555 N84-26395
Spectroscopy of the 4.6 - 4.7 micron interstellar absorption features 16 p2570 N84-26492
Nonenzymatic formation of energy-rich lactoyl and glyceroyl thioesters from glyceraldehyde and a thiol
[NASA-CR-173833] 17 p2617 N84-26748
Crystallogeometric analysis of compatibility of carbon-metal materials
[BLL-M-35559-(5828.4)] 17 p2767 N84-27570
Model catalytic studies using metal single crystals
[DE84-010267] 18 p2812 N84-27850
Liquid metal corrosion considerations in alloy development
[DE84-008512] 18 p2815 N84-27868
The influence of lattice imperfections on the chemical reactivity of solids. The growth, perfection and defect properties of PETN (pentaerythritol tetranitrate) and RDX (cyclotrimethylene trinitramine) single crystals, part 1
[AD-A141271] 18 p2941 N84-28651

The influence of lattice imperfections on the chemical reactivity of solids. The growth, perfection and defect properties of PETN (pentaerythritol tetranitrate) and RDX (cyclotrimethylene trinitramine) single crystals, part 2
[AD-A141272] 18 p2941 N84-28652
Organophosphazenes: 17: The synthesis of trimethylsilylacetylene and terminal acetylene derivatives of hexafluorocyclotriphosphazene
[AD-A141429] 19 p2983 N84-28906
Substitution and addition reactions of a (Methylene)phosphine with alkyllithium reagents
[AD-A141512] 19 p2984 N84-28908
Organosilane polymers. Part 7: Sodium-derived vinylic polysilanes
[AD-A141649] 19 p2984 N84-28912
Nuclear magnetic resonance studies of molten salts
[AD-A141751] 19 p2986 N84-28935
Nitrolysis of the CN single bond and related chemistry of nitro and nitroso groups
[AD-A141825] 19 p2989 N84-28937
Chemical mechanisms and reaction rates for the initiation of hot corrosion of IN-738
[NASA-TP-2319] 19 p2992 N84-28958
Sulfone-ester polymers containing pendent ethynyl groups
[NASA-CASE-LAR-13316-1] 19 p2996 N84-28987
Low cost acetylene terminated polymers
[AD-A140040] 19 p2998 N84-28996
Hydrogen fluoride formation and metal corrosion in freon-contaminated propellants
20 p3137 N84-29921
The prediction of electrochemical reactivities from contemporary theory: Some comparisons with experiment
[AD-A142406] 20 p3147 N84-29985
Engineering scoping study of the production of hydrogen and oxygen from the cerium oxide-sodium phosphate/carbonate thermochemical cycle
[DE84-010629] 20 p3150 N84-29998
Investigation of laser induced radical reactions using time resolved infrared and coherent anti-Stokes Raman scattering (CARS) spectroscopy
[MPIS-17/1983] 20 p3151 N84-30008
Method and apparatus for producing high purity silicon
[DE84-011087] 20 p3163 N84-30090
Modeling chemical kinetic aspects of engine knock
[DE84-009674] 20 p3198 N84-30312
Using chemically reactive tracers to determine temperature characteristics of geothermal reservoirs
[DE84-011373] 20 p3242 N84-30580
Calculation of vaporization rates assuming various rate determining steps: Application to the resistojet
[NASA-TM-83757] 21 p3355 N84-31283
Use of surface and thin film analysis techniques to study metal-organic and metal-polymer interaction
[DE84-012542] 21 p3361 N84-31321
Chemical kinetics in hydrogen-air flames
[DE84-011002] 21 p3361 N84-31323
Simulations of erosion/corrosion surface chemical reactions with a laser beam
[AD-A143001] 21 p3366 N84-31354
Scattering properties of a moving dielectric object
[AD-A142845] 21 p3386 N84-31489
Lithium cell reactions
[AD-A142976] 21 p3391 N84-31522
Effects of whole-body cold exposure on erythrocyte morphology 21 p3452 N84-31906
The controlling reactions during interaction between silicon and carbon
[BLL-M-35673-(5828.4)] 22 p3545 N84-32444
Influence of diluents and inhibitors on detonations
[DE84-006300] 22 p3548 N84-32463
A comprehensive chemical kinetic reaction mechanism for the oxidation of n-butane
[DE84-005739] 22 p3549 N84-32467
Topochemical reactions and the Stefan problem
[BLL-M-35671-(5828.4)] 22 p3553 N84-32501
Cure reactions, network structure and mechanical response of diaminodiphenyl sulfone cured tetraglycidyl 4,4'diaminodiphenyl methane
[DE84-012807] 22 p3561 N84-32548
Mechanisms involved in the glow-discharge deposition of doped hydrogenated amorphous silicon
[DE84-013124] 22 p3665 N84-33236
Behavior of Al2O3 and SiO2 with heating in a Cl2 + CO stream
[NASA-TM-77487] 23 p3713 N84-33533
Friction behavior of silicon in contact with titanium, nickel, silver and copper
[NASA-TP-2362] 23 p3723 N84-33590
Soluble polyacetylenic and polyaromatic polymers and method of making the same
[DE84-014314] 23 p3725 N84-33607
Alkali-SCl2 chemiluminescence: Vibrational population inversion in the B state of S2
[AD-A143639] 23 p3754 N84-33794
Preparation of certain m-aminophenols and the use thereof for preparation of laser dyes
[DE84-014232] 23 p3755 N84-33803
Carbohydrate-protein interactions
23 p3805 N84-34123
A simple DWBA (Franck-Condon) treatment of H-atom transfers between two heavy particles
[AD-A143867] 23 p3822 N84-34236
MOD silver metallization for photovoltaics
[NASA-CR-173975] 24 p3884 N84-34610
Laser control of chemical reactions
[AD-A144359] 24 p3908 N84-34758

CHEMICAL REACTORS
Synthetic and mechanistic studies in fluorine chemistry. New developments in organonitrogen fluorine chemistry
[AD-A132844] 05 p0650 N84-14274
Pressure letdown method and device for coal conversion systems
[NASA-CASE-NPO-15100-1] 05 p0698 N84-14583
Investigation of a para-ortho hydrogen reactor for application to spacecraft sensor cooling
[NASA-CR-175131] 06 p0916 N84-15957
Continuous chemical reaction chromatography
[DE84-004089] 10 p1456 N84-19509
Characterization of zirconium alloy oxidation films by alternating current impedence
[DE84-006225] 13 p1965 N84-22766
O-atoms yields from microwave discharges in N2O/Ar mixtures
[AD-A130429] 14 p2137 N84-23808
A study of the fundamental problems of combustion in the combustion chambers of turbojets using a tubular reactor 15 p2293 N84-24759
Research activities in advanced techniques
16 p2565 N84-26456
Two-stage process for conversion of synthesis gas to high quality transportation fuels
[DE84-009624] 20 p3166 N84-30108
Study of ebullated bed fluid dynamics
[DE84-010230] 20 p3187 N84-30251
Solar-heated oil shale retort
[NASA-CASE-NPO-16392-1] 22 p3616 N84-32912
Development of a polysilicon process based on chemical vapor deposition, phase 1 and phase 2
[NASA-CR-173957] 23 p3786 N84-34015
Modeling and control of an on-board oxygen generation system 23 p3811 N84-34164

CHEMICAL RELAXATION
U MOLECULAR RELAXATION

CHEMICAL SHIFT
U CHEMICAL EQUILIBRIUM

CHEMICAL TESTS
NT CHEMICAL ANALYSIS
NT ELECTROPHOTOMETRY
NT GAS ANALYSIS
NT GAS SPECTROSCOPY
NT MICROANALYSIS
NT NEUTRON ACTIVATION ANALYSIS
NT OZONOMETRY
NT POTENTIOMETRIC ANALYSIS
NT QUALITATIVE ANALYSIS
NT QUANTITATIVE ANALYSIS
NT SALT SPRAY TESTS
NT SPECTROSCOPIC ANALYSIS
NT URINALYSIS
NT VOLUMETRIC ANALYSIS
High temperature and post irradiation piezoelectric properties of strontium niobate, Sr2Nb2O7
[AERE-R-11112] 18 p2620 N84-27906

CHEMICAL WARFARE
Laser chromatography (gaseous electrophoresis) of chemical agents
[AD-A130948] 01 p0087 N84-10565
Risk models for risk distance prediction during release of toxic industrial chemicals caused by acts of war
[FOA-C-40185-C2(H2)] 08 p1183 N84-17707
Synthesis of resin polymers for chemical agent defense
[AD-A141035] 18 p2618 N84-27892

CHEMILUMINESCENCE
Thermolysis of 4-methyl-4-phenyl malonyl peroxide: A new oxygen dependent chemiluminescent reaction
[AD-A131963] 03 p0349 N84-12268
Chemiluminescence and laser induced fluorescence of boron atom reactions
[AD-A131709] 00 p0380 N84-12471
Characterization of high-temperature vapor-phase species and vapor-solid interactions of import to combustion and gasification processes in the energy technologies
[DE83-015166] 04 p0494 N84-13242
Structural and dynamic studies of materials possessing high energy content
[AD-A136250] 09 p1278 N84-18343
Prototype chemiluminescent analyzer for measurement of hydrazines and nitrogen dioxide
[AD-A135622] 09 p1279 N84-18354
Effectiveness of a device for detection of bacteriological aerosols; improvements in standardization and sensitivity in the laboratory
[FOA-C-40175-B2] 10 p1546 N84-20132
Chemiluminescent/laser diode measurement technique intercomparison and captive air measurement program
[PB84-134485] 11 p1661 N84-20639
Spectroscopy and kinetics of lead oxide chemiluminescence
[AD-A138250] 12 p1792 N84-21687
Infrared emission associated with chemical reactions on Shuttle and SIRTF surfaces
[NASA-TM-85875] 12 p1921 N84-22515
Alkali-SCl2 chemiluminescence: Vibrational population inversion in the B state of S2
[AD-A143639] 23 p3754 N84-33794

CHEMISORPTION
Structural gradient in the silane coupling agent layers and its influence on the mechanical and physical properties of composites
[AD-A130664] 01 p0031 N84-10197
Hydrothermal stability of gamma-aminopropyltriethoxysilane coupling agent on ground silicon powder and E-glass fibers
[AD-A130904] 01 p0037 N84-10234
Experimental studies of the geometric and electronic structure of chemisorption bonding
[PB83-243949] 02 p0192 N84-11248
Chemical modification of chemisorptive and catalytic properties of nickel
[DE84-002046] 05 p0655 N84-14308
Species-specific densities of states of ga and as in the chemisorption of H2O on GaAs(110)
[AD-A134344] 07 p1060 N84-17022
Species-specific densities of states of ga and as in the chemisorption of oxygen on GaAs(110)
[AD-A134416] 07 p1060 N84-17024
Comparison of photon stimulated dissociation of gas phase, solid and chemisorbed water
[AD-A134986] 08 p1125 N84-17314
Research Laboratory of Electronics
[AD-A135319] 08 p1150 N84-17488
Theoretical studies of metal clusters and of chemisorption on metals
[AD-A138175] 12 p1791 N84-21683
Theory of surface enhanced Raman scattering: A prospective view
[AD-A138320] 12 p1793 N84-21690
Momentum dependent line shapes in photoemission
[AD-A137968] 12 p1913 N84-22461
Chemical modification of surfaces: The effect of potassium on the chemisorption of molecules on transition metal crystal surfaces
[DE84-008345] 14 p2244 N84-24473
Thin film models of SMSI (Show Strong Metal-Support Interactions) catalysts: Pt on oxidized titanium
[AD-A140589] 17 p2767 N84-27572
Quantum structure of adsorbates on semiconductor surfaces
[AD-A143465] 22 p3663 N84-33223
Phase transitions in chemisorbed systems
22 p3682 N84-33342
Extensions of electron stimulated desorption measurements. Investigation of gas adsorption on Cu layers deposited on a tungsten (110) surface
[AD-A143779] 23 p3714 N84-33539

CHEMISTRY
Effects of surface chemistry on hot corrosion life
[NASA-CR-174683] 15 p2295 N84-24774
Materials sciences programs, fiscal year 1983
[DOE/ER-0143/1] 19 p2983 N84-28905

CHEMONUCLEAR PROPULSION
U CHEMICAL PROPULSION

CHEMOTHERAPY
Prevention of acute mountain sickness by dexamethasone
[AD-A131533] 01 p0114 N84-10737
Acute intramuscular toxicity (LD50) of 1,1'-trimethylenebis (4-(Hydroxyiminomethyl) pyridinium bromide) monohydrate, (TMB-4) in male mice
[AD-A133148] 06 p0866 N84-15758
Ultrastructural evaluation of the retina in retinopathy of prematurity and correlations with vitamin E therapy
[AD-A135929] 10 p1547 N84-20143
Hypnotics and air operations
11 p1697 N84-21072

CHESAPEAKE BAY (US)
Evaluation of spatial, radiometric and spectral thematic mapper performance for coastal studies
[E84-10018] 02 p0237 N84-11555
The biochemistry and physiology of bacterial adhesion to surfaces
[AD-A138271] 13 p2019 N84-23094

Evaluation of spatial, radiometric and spectral Thematic Mapper performance for coastal studies
[E84-10118] 14 p2167 N84-23978
Evaluation of spatial, radiometric and spectral Thematic Mapper performance for coastal studies
[E84-10159] 17 p2709 N84-27251
Chesapeake Bay nutrient dynamics study
[PB84-190982] 20 p3229 N84-30524
Long-term salinity, temperature and current measurements in upper Chesapeake Bay
[PB84-180280] 20 p3251 N84-30636

CHICKENS
Avian embryonic development in hyperdynamic environments
[NASA-CR-173339] 09 p1360 N84-18885

CHILDREN
Use of the Doppler ultrasound method to evaluate the rate of blood flow in children with patent ductus arteriosus
[ISSN-0208-5658] 19 p3064 N84-29441

CHILE
Geology of the Portrerillos District, Atacama, Chile 21 p3436 N84-31811

CHILLING
U COOLING

CHIMES
U AUDITORY SIGNALS

CHINA
From launching carrier rockets towards the Pacific on the accomplishments and problems of electronic technologies in our country
[AD-A131088] 03 p0366 N84-12380
Major water conservation and reclamation projects in the Jianghan Plain and surroundings, Hubei Province, China — Landsat imagery 03 p0397 N84-12593
Posts and telecommunications
[AD-A133805] 05 p0667 N84-14390
First UFO incident for our country
[AD-A133326] 06 p0932 N84-16058
Visiting spacemen
[NASA-TM-77294] 07 p0960 N84-16226
China report: Science and technology
[JPRS-CST-84-009] 12 p1773 N84-21561
First Chinese-built fighter simulator described 12 p1773 N84-21562
Scientology and management of science and technology
[AD-A139084] 14 p2246 N84-24487
Interactive creations and modification of chinese characters
[ISD-299] 15 p2417 N84-25513
Report on the International Cartographic Association Seminar on computer assisted mapping and charting 19 p3040 N84-29285
The forecasts of computers and the policy-making of China
[AD-A141557] 19 p3072 N84-29488
US technology transfer to China
[GPO-29-567] 20 p3318 N84-31064
Domestic satellite communication system to be established in China 24 p3891 N84-34635

CHINA (COMMUNIST) MAINLAND
U CHINA

CHINESE PEOPLES REPUBLIC
U CHINA

CHIPS (ELECTRONICS)
Microelectronic bending and pressure sensors
[BMFT-FB-T-83-100] 02 p0225 N84-11476
Wafer-scale integration of systolic arrays
[AD-A132536] 04 p0525 N84-13450
Computer-aided synthesis and design of monolithic microwave GaAs MESFET amplifiers
[AD-A132474] 04 p0525 N84-13452
A knowledge based approach to VLSI CAD
[AD-A133692] 05 p0675 N84-14434
Comparison of arithmetic requirements for the PFA (Prime Factor Algorithm), WFTA (Winograd Fourier Transform Algorithm), SWIFT, MFFT (Mixed radix fast Fourier transform), FFT (Fast Fourier Transform) and DFT (Discrete Fourier Transform) algorithms
[AD-A133087] 05 p0738 N84-14847
Research in VLSI systems. Heuristic programming project and VLSI theory project. A fast turn around facility for very large scale integration (VLSI)
[AD-A134809] 08 p1151 N84-17494
Proceedings of the 9th World Computer Congress. IFIP (International Federation of Information Processing)
[AD-A136317] 09 p1365 N84-18911
A Systolic Design Rule Checker (SDRC)
[AD-A136194] 09 p1378 N84-19006
The impact of VLSI on signal processing 09 p1402 N84-19159
Concurrent VLSI architectures for two dimensional signal processing systems 09 p1402 N84-19162
VLSI signal processing: Basis for cooperation 09 p1403 N84-19168
VHSIC technology working group report (IDA/OSD R&M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A137720] 11 p1646 N84-20766
On the relation between wire length distributions and placement of logic on master slice ICs
[AD-A137848] 11 p1647 N84-20768
Lead making for improved continuous-flow manufacturing systems 11 p1721 N84-21224
Product assurance technology for procuring reliable, custom LSI/VLSI electronics
[NASA-CR-173405] 12 p1812 N84-21810
The development and fabrication of an implantable, multiplexed, semiconductor multielectrode array
[AD-A138788] 13 p1986 N84-22895
A structured design of multiple-valued LSI/VLSI with built-in testing capability
[AD-P002328] 14 p2189 N84-24119
Tolerance analysis and related measurements on MVL-CCD's (Multiple-valued-Charge-Coupled Devices)
[AD-P002346] 14 p2191 N84-24137
How to assemble tree machines
[AD-A139963] 15 p2390 N84-24988
The MOSIS (MOS implementation) system (What it is and how to use it)
[AD-A139744] 15 p2418 N84-25517
An evaluation of the directed flow graph methodology
[NASA-CR-173593] 16 p2543 N84-26324
New integrated circuit casing 18 p2918 N84-28504
Design study of floating point systolic VLSI chip
[AD-A141868] 19 p3013 N84-29102
VLSI research
[AD-A142142] 19 p3016 N84-29119
Research in VLSI (Very Large Scale Integration) systems
[AD-A142511] 20 p3178 N84-30185
Single chip MIL-STD-1553B bus interface unit keeps pace with chip sets
[AD-P003537] 21 p3332 N84-31141
MIL-STD-1553B Marconi LSI chip set in a remote terminal application
[AD-P003538] 21 p3332 N84-31142
MIL-STD-1553 interface application notes
[AD-P003539] 21 p3332 N84-31143
Third generation MIL-STD-1553B LSI chip set
[AD-P003542] 21 p3333 N84-31146
MIL-STD-1750A microprocessor chip set development
[AD-P003548] 21 p3334 N84-31152
A MIL-STD-1750A computer employing the MDAC (McDonnell Douglas Astronautics Corporation) CMOS-SOS chipset
[AD-P003550] 21 p3334 N84-31154
A new silicon-on-sapphire MIL-STD-1750A microprocessor
[AD-P003551] 21 p3334 N84-31155
Transportable GPU (General Processor Units) chip set technology for standard computer architectures
[AD-P003553] 21 p3334 N84-31157
Research pressure instrumentation for NASA Space Shuttle main engine, modification no. 5
[NASA-CR-171122] 21 p3404 N84-31594
VHSIC (Very High Speed Integrated Circuits) for training systems
[AD-P003484] 21 p3513 N84-32251
Three-dimensional circuit layouts
[AD-A143430] 22 p3586 N84-32713
Research pressure instrumentation for NASA Space Shuttle main engine, modification no. 6
[NASA-CR-171126] 22 p3597 N84-32780
Research pressure instrumentation for NASA Space Shuttle main engine, modification no. 5
[NASA-CR-171128] 22 p3622 N84-32949
The Blue CHIP Project
[AD-A143474] 22 p3638 N84-33065

CHIPS (MEMORY DEVICES)
Monolithic integrated analog switching arrays
[BMFT-FB-T-83-146] 02 p0216 N84-11418
Research in VLSI (Very Large Scale Integration) systems
[AD-A136413] 09 p1307 N84-18542
UCLA demodulation engine
[AD-A135912] 09 p1309 N84-18556
On the number of locations required in the content-addressable memory implementation of multiple-varied functions
[AD-P002338] 14 p2190 N84-24129
Compression and Decompression of Imaging Sensor Signals (CADISS): An image (de)compression system for deep space application
[NLR-MP-83028-U] 15 p2390 N84-25339
Nonvolatile, electrically erasable programmable ROM
[BMFT-FB-T-84-008] 15 p2412 N84-25482
An evaluation of the directed flow graph methodology
[NASA-CR-173593] 16 p2543 N84-26324
West Europe report: Science and technology
[JPRS-WST-84-018] 17 p2640 N84-26888
Siemens plans 256 K memory chip to catch up with Japan 17 p2640 N84-26892
Siemens strategy includes DM 1 billion for submicrons IC's 17 p2640 N84-26893
Description of FRG basic research in X-ray lithography 17 p2640 N84-26894
An application of number theory to the organization of raster-graphics memory
[AD-A140638] 17 p2758 N84-27508
Reed Solomon codes for error control in byte organized computer memory systems
[NASA-CR-173803] 19 p3060 N84-29542
Circuit engineering principles for construction of bipolar large-scale integrated circuit storage devices and very large-scale main memory 21 p3379 N84-31441

CHIRAL DYNAMICS
Mean field theory of the linear sigma-model: Chiral solitons
[DE84-002864] 08 p1229 N84-18034
Chiral anomalies and differential geometry
[DE84-004637] 11 p1717 N84-21200
Local and global integrability of anomalous ward identities
[PREPRINT-364] 23 p3819 N84-34217
Search for excited quarks
[PREPRINT-383] 23 p3823 N84-34246

CHIRP
NT CHIRP SIGNALS
Real-time synthetic aperture radar processing 12 p1906 N84-22416

CHIRP SIGNALS
Chirp signal generator feasibility study — ERS-1 altimeter
[TH-CSF-DASM-83/001/106] 07 p0999 N84-16482
Target super-resolution compensation for coherent airborne radar utilizing spread spectrum waveforms
[AD-A138545] 13 p1982 N84-22866

CHLORIDES
NT ALUMINUM CHLORIDES
NT AMMONIUM CHLORIDES
NT CALCIUM CHLORIDES
NT CARBON TETRACHLORIDE
NT COPPER CHLORIDES
NT HYDROCHLORIC ACID
NT HYDROGEN CHLORIDES
NT IRON CHLORIDES
NT LITHIUM CHLORIDES
NT MAGNESIUM CHLORIDES
NT POTASSIUM CHLORIDES
NT SODIUM CHLORIDES
NT SULFUR CHLORIDES
NT ZINC CHLORIDES
The detection of pitting corrosion in stainless steel using double-layer activation
[AERE-R-9751] 01 p0047 N84-10304
Magnetic properties of CoCl2-intercalated graphite
[AD-A133860] 05 p0648 N84-14260
Pit initiation resistance of ferritic stainless steels in chloride environments from 800 to 2600C
[DE84-000355] 06 p0907 N84-15258
Part 1: Physical studies of distant comets. Part 2: Morphologies of planetary nebulae 06 p0937 N84-16091
Study of strong electrolytes by X-ray spectroscopy at the c1 k-edge
[AD-A142225] 19 p2989 N84-28943
Photoelectrochemistry at iron oxide electrodes
[DE84-011453] 20 p3150 N84-30003
Analytical methods for determination of inorganic anions
[BLL-WH-592-(9091.9F)] 21 p3358 N84-31301
Chromium-magnesium stainless steels, resistant to stress corrosion cracking in magnesium and calcium chloride solutions
[BLL-RISLEY-TRANS-4571-(9091.9)] 22 p3550 N84-32477

CHLORINATION
Ocean thermal energy conversion: Materials issues
[DE84-012084] 21 p3434 N84-31790

CHLORINE
Novel composite membranes
[PB83-243170] 03 p0351 N84-12284
Amplification of sound by gas phase reactions
[AD-A133747] 05 p0649 N84-14266
Development of analytical methodology for the measurement of chlorine and bromine in the stratosphere
[AD-A132640] 05 p0703 N84-14614
Photochemical generation of the optoacoustic effect
[DE84-003712] 08 p1228 N84-18023
Excitonic solids
[AD-A135972] 09 p1396 N84-19115
Observations of major stratospheric chlorine species
[AD-A138646] 13 p2011 N84-23045

Multistability due to the helical optical distributed feedback in the cholesteric liquid crystals
14 p2241 N84-24454
A review of the basic concepts of dense gas dispersion with special regard to modelling of heat transfer
[QUEL-1512/84] 16 p2487 N84-25952
The selective epoxidation of ethylene catalyzed by silver: Mechanistic details revealed by single-crystal studies
[DE84-009987] 21 p3506 N84-32215
Interstellar chlorine abundance: Results and implications of a large-scale survey
24 p3973 N84-35159

CHLORINE COMPOUNDS
NT ALUMINUM CHLORIDES
NT AMMONIUM CHLORIDES
NT AMMONIUM PERCHLORATES
NT CALCIUM CHLORIDES
NT CARBON TETRACHLORIDE
NT CHLORIDES
NT CHLOROSILANES
NT COPPER CHLORIDES
NT HYDROCHLORIC ACID
NT IRON CHLORIDES
NT LITHIUM CHLORIDES
NT MAGNESIUM CHLORIDES
NT PERCHLORATES
NT POTASSIUM CHLORIDES
NT POTASSIUM PERCHLORATES
NT SODIUM CHLORIDES
NT SULFUR CHLORIDES
NT ZINC CHLORIDES
The reciprocal influence of functional groups in substitution reactions on the diamond surface
[CSIR-TRANS-1685] 01 p0152 N84-11000
Energetic materials separations and specific polymorph preparations via thermal gradient sublimation
[DE84-002830] 09 p1290 N84-18422
Chemistry and application of ozone and ozone/UV light for water reuse-2
[PB84-140557] 11 p1630 N84-20664
A shock tube study of chlorine azide decomposition
13 p1958 N84-22728
The onset of detonation behind incident shock waves in chlorine azide-argon mixtures
13 p1990 N84-22921

CHLOROAROMATICS
Cleavage of aromatic carbon-carbon bonds
[DE84-010161] 22 p3543 N84-32432

CHLOROETHYLENE
Vapor degreaser/ultrasonic cleaner solvent evaluation
[DE84-002015] 04 p0508 N84-13331
Toxicology of tetrachloroethylene
[MBL-1983-3] 12 p1866 N84-22159

CHLOROFORM
Application of the finite compartment model of carbon adsorption to binary systems
[AD-A141483] 19 p2988 N84-28932
Locating and estimating air emissions from sources of chloroform
[PB84-200617] 22 p3619 N84-32935

CHLOROPHYLLS
Marine remote sensing activities of the Joint Research Center, Ispra, Italy 03 p0396 N84-12586
Two different aspects of phytoplankton bloom seen by satellite (CZCS) in the western English Channel — coastal zone color scanner (CZCS) 03 p0399 N84-12604
Introductory studies of natural contamination and manmade pollution in Danish waters
03 p0399 N84-12608
Normalization of water-leaving radiance obtained from the Coastal Zone Colour Scanner (CZCS) data
03 p0399 N84-12610
Investigation of the structure of photosynthetic reaction centers
[DE84-002866] 07 p1043 N84-16760
In vitro chlorophyll photosynthetic reaction
[PB84-104892] 08 p1198 N84-17810
Reflectance measurements of cotton leaf senescence altered by mepiquat chloride
[E84-10069] 10 p1521 N84-19960
Prochloron research
[NASA-CR-173264] 10 p1543 N84-20113
Chlorophyll and carotenoid pigments of prochloron (prochlorophyta) 10 p1544 N84-20119
Prochloron expedition 10 p1544 N84-20120
Particulate models of photosynthesis
[DE84-003947] 12 p1863 N84-22142
Development of Great Lakes algorithms for the Nimbus-G coastal zone color scanner
[NASA-CR-173511] 17 p2711 N84-27258
A radiative transfer model for remote sensing of laser induced fluorescence of phytoplankton in non-homogeneous turbid water
[NASA-CR-173777] 19 p3063 N84-29432
A first evaluation of LANDSAT TM data to monitor suspended sediments in lakes 20 p3215 N84-30425
Unraveling photosystems
[DE84-013812] 22 p3629 N84-32994
Remote monitoring of sediments and chlorophyll as traces of pollutant movements in a Mediterranean coastal area 23 p3780 N84-33969
The influence of perturbing water properties in chlorophyll mapping 23 p3780 N84-33970

CHLOROPLASTS
Role of calcium and calmodulin in plant cell regulation
02 p0263 N84-11725
Pea amyloplast DNA is qualitatively similar to pea chloroplast DNA 09 p1359 N84-18877
Prochloron 10 p1544 N84-20116
Unraveling photosystems
[DE84-013812] 22 p3629 N84-32994

CHLOROPRENE RESINS
Effects of stress on permeation and polyurethane degradation
[AD-A140260] 16 p2472 N84-25841

CHLOROSILANES
Radical and ion molecule mechanisms in the polymerization of hydrocarbons and chlorosilanes in RF plasmas at low pressures (1.0 torr)
[NASA-TM-83602] 11 p1736 N84-21329
Correlations between plasma variables and the deposition process of Si films from chlorosilanes in low pressure RF plasma of argon and hydrogen
[NASA-TM-83603] 11 p1737 N84-21330
Organosilane polymers. Part 7: Sodium-derived vinylic polysilanes
[AD-A141649] 19 p2984 N84-28912
Development of a polysilicon process based on chemical vapor deposition, phase 1 and phase 2
[NASA-CR-173957] 23 p3786 N84-34015

CHOICE
U SELECTION

CHOKES
Helium leak detector improved sensitivity speed choke
[DE84-005160] 10 p1498 N84-19793

CHOKES (FUEL SYSTEMS)
Fuel injection device and method
[DE84-014320] 22 p3606 N84-32846

CHOLESKY FACTORIZATION
Incomplete-Cholesky factorization by a matrix-partition algorithm
[DE83-013044] 01 p0134 N84-10679

CHOLESTEROL
Polarization bistability in cholesteric liquid crystals
14 p2236 N84-24420

CHOLINESTERASE
Combined effects of ionizing radiation and anticholinesterase exposure on rodent motor performance
[AD-A131647] 03 p0414 N84-12707
Structure-activity correlations for organophosphorus ester anticholinesterases. Part 2: CNDO/2 calculations applied to ester hydrolysis rates
[NASA-TM-85888] 07 p0966 N84-16257
The effects of organophosphorus anticholinesterase compounds on brain glucose and energy metabolism
[AD-A137819] 11 p1695 N84-21058
Human response to pyridostigmine bromide
[AD-A140960] 18 p2900 N84-28395
Organophosphate toxicity: Genetics, receptors, and antidotes
[AD-A141059] 20 p3259 N84-30685
Modulation of the cholinergic mechanisms in the bronchial smooth muscle
[NDRE/PUBL-84/1001] 21 p3457 N84-31937

CHONDRITES
NT ALLENDE METEORITE
NT CARBONACEOUS CHONDRITES
Microprobe analyses of rare-earth-element fractionation in meteoritic minerals
[DE83-017326] 04 p0621 N84-14097
Primitive meteorites: Where do they come from and how do they form? 11 p1755 N84-21458
L Chondrite meteorites: A compilation and preliminary analyses 15 p2427 N84-25576
Elemental advances of ultraheavy cosmic rays
[NASA-CR-173650] 17 p2781 N84-27658

CHONDRULE
Primitive meteorites: Where do they come from and how do they form? 11 p1755 N84-21458
Formation of Meteoritic chonrules by lightning
11 p1756 N84-21462
Formation of chondrules by drag heating in dust-enriched environments 11 p1756 N84-21463

CHOPPERS (ELECTRIC)
U ELECTRIC CHOPPERS

CHROMATOGRAPHY
NT GAS CHROMATOGRAPHY
NT LIQUID CHROMATOGRAPHY
NT THIN LAYER CHROMATOGRAPHY
Determining the homomorphils of polar substances by gas-liquid chromatography
[BLL-T6164/BG/LRS-(9022.048)]
01 p0036 N84-10229
Phytochrome from green plants: Assay, purification, and characterization
[DE83-017447] 03 p0414 N84-12710
Improved polymers for enhanced-oil-recovery synthesis and rheology
[DE83-017371] 04 p0507 N84-13324
Analytical chemistry 06 p0796 N84-15189
Capillary supercritical fluid chromatography of polycyclic aromatic compounds
[DE84-002939] 07 p0972 N84-16302
Journal of Research of the National Bureau of Standards. Volume 88, Number 3, May-June 1983
[PB84-115799] 08 p1127 N84-17328
Inorganic analysis in a controlled ecological life support system
[NASA-CR-173299] 08 p1204 N84-17852
Characterization of organometallic polymers by chromatographic methods and nuclear magnetic resonance, part 2
[PB84-183599] 20 p3165 N84-30100
Analysis of moisture in solids: A review of the last decade or from Pande to the present
[DE84-011166] 21 p3362 N84-31326
Carbon-13 and proton nuclear magnetic resonance analysis of shale-derived refinery products and jet fuels and of experimental referee broadened-specification jet fuels
[NASA-CR-174761] 22 p3561 N84-32552
Research on Instrumentation, Testing and Evaluation
[DE84-014859] 23 p3727 N84-33616
Navy mobility fuels evaluation
[AD-A144171] 24 p3890 N84-34630

CHROME
U CHROMIUM

CHROMIC ACID
Anodic oxide formation on Ti-6Al-4V in chromic acid for adhesive bonding
[AD-A140057] 15 p2298 N84-24790

CHROMITES
Lunar sample analysis
[NASA-CR-171772] 11 p1758 N84-21476

CHROMIUM
Studies of an inductively coupled plasma with a Fourier-transform spectrometer
[DE83-014194] 01 p0151 N84-10991
Different sensitivity of s- and d-electron energy levels to a change in lattice parameters in transition metals
[BLL-M-35116-(5828.4)] 01 p0151 N84-10996
Study of chromium-free and chromium-reduced steels
[DE83-016717] 03 p0353 N84-12294
A practical sublimation source for large-scale chromium gettering in fusion devices
[DE84-000724] 04 p0606 N84-14002
An investigation of substrate effects on type two hot corrosion of marine gas turbine materials
[AD-A132833] 05 p0655 N84-14303
Optical studies of dynamical process in disordered materials
[DE84-002048] 07 p1083 N84-17042
Applications of solvent extraction in hydrometallurgy
[BLL-OA-TRANS-3162-(6196.3)]
08 p1128 N84-17334
Chromium
[PB84-100882] 08 p1136 N84-17385
Generation, collection, and analysis of welding fumes
[PB84-116607] 09 p1326 N84-18663
Determination of Cr(6) and Cr(3) by ICP
[DE83-016627] 10 p1457 N84-19515
Study of the recovery of valuable metal starting materials from steelsworks slag
[BMFT-FB-T-83-183] 10 p1532 N84-20034
Process for improving moisture resistance of epoxy resins by addition of chromium ions
[NASA-CASE-LAR-13226-1] 11 p1636 N84-20700
Lunar sample analysis
[NASA-CR-171772] 11 p1758 N84-21476
Theoretical studies of metal clusters and of chemisorption on metals
[AD-A136175] 12 p1791 N84-21683
Kinetics of chromium ion absorption by cross-linked polyacrylate films
[NASA-TM-83661] 14 p2118 N84-23693
Characterization of crystallographic structure and internal stress of chromium coatings plated under current interruptions
[AD-A136118] 17 p2623 N84-26786
On the structure of the uranium-niobium-chromium-system
[BLL-TRANS-1104-(7291.7965)]
19 p2991 N84-28954
Erosion of iron-chromium alloys by glass particles
[NASA-TP-2354] 19 p2993 N84-28965

Ductile-brittle transition temperature measurement of temper embrittled Ni-Cr steels by means of small punch tests
[DE84-012833] 20 p3158 N84-30054
Overlay coating degradation by simultaneous oxidation and coating/substrate interdiffusion
[NASA-TM-83738] 21 p3365 N84-31344
Pulsed current hard chromium plating
[CETIM-12-F-390] 21 p3369 N84-31372
Numerical calculations of the function of the static receptivity of electrons in metals
[BLL-M-35840-(5828.4)] 22 p3551 N84-32480
Supersonic metal cluster beams
[DE84-012976] 22 p3556 N84-32516
Negative electrode catalyst for the iron-chromium REDOX energy storage system
[NASA-CASE-LEW-14028-1] 22 p3616 N84-32909
Substitution and conservation technology for chromium 23 p3703 N84-33473

CHROMIUM ALLOYS
NT ASTROLOY (TRADEMARK)
NT CHROMIUM STEELS
NT RENE 95
Magnetic properties and structure of monocrystals of Fe-24 percent Cr-15 percent Co-8 percent W alloys
[BLL-M-35131-(5828.4)] 01 p0040 N84-10253
High-temperature corrosion of iron and iron-based alloys in sulfur-containing atmospheres
[DE83-013843] 01 p0045 N84-10290
Corrosion-resistant behavior of amorphous and crystallized Fe-Ni-Cr-W alloys
[DE83-016815] 02 p0197 N84-11280
Corrosion behavior of Fe-Cr-Ni-Zr alloys in aggressive environments at high temperatures
[DE83-014735] 03 p0353 N84-12297
Wear during rubbing of a sintered metal powder body
[AD-A132354] 04 p0544 N84-13584
Swelling behavior of a simple ferritic alloy
[DE84-003162] 07 p0976 N84-16329
Corrosion and oxidation of vanadium-base alloys
[DE84-003266] 09 p1285 N84-18393
The development of wrought heat-resisting alloys for gas turbines
[CSIR-ME-1778] 11 p1632 N84-20669
Re-examination of beta-alumina doped with chromium using photoacoustic spectroscopy
11 p1742 N84-21369
Superfine wire made from new alloy
12 p1787 N84-21657
Analysis of microstructure and strengthening mechanisms in laser surface alloyed Fe-Cr and Fe-C-Cr alloy systems
[AD-A137971] 12 p1797 N84-21722
Kinetics of corrosion of alloys of vanadium-chromium system in phosphoric acid
[BLL-M-35560-(5828.4)] 17 p2621 N84-26771
Modeling degradation and failure of Ni-Cr-Al overlay coatings
[NASA-TM-83672] 18 p2813 N84-27858
Improved oxidation sulfidation resistance of Fe-Cr-Ni alloys
[DE84-010066] 20 p3156 N84-30039
Oxidation-sulfidation behavior of Fe-Cr-Ni alloys containing additions of Zr, Nb, or Ti
[DE84-005411] 20 p3156 N84-30043
Creep-fatique and temperature synergisms in alloy 800
[DE84-010131] 20 p3157 N84-30046
Evolution of cavity microstructure in ion-irradiated 316 SS and Fe-20Ni-15Cr alloy
[DE84-012111] 20 p3158 N84-30053
Behavior of Ni-Cr-Si coating alloys in Na2SO4, V2O5 and mixed salt hot corrosion
[DE84-012386] 21 p3367 N84-31363
Fundamental alloy studies
[DE84-013941] 22 p3555 N84-32513
Low-chromium heat-resisting ferritic alloys strengthened by the Chi Phase
[PB84-199041] 22 p3557 N84-32524
Seizing in friction of composite materials with differing phase compositions 24 p3868 N84-34517
Study of superfine interactions in amorphous chromium-containing alloys by Mossbauer spectroscopy
24 p3877 N84-34565

CHROMIUM COMPOUNDS
NT CHROMIC ACID
NT CHROMITES
NT CHROMIUM OXIDES
Optically induced changes in the Faraday rotation spectra of the ferromagnetic semiconductor CdCr/sub 2/Se/sub 4 14 p2233 N84-24398
Chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] 18 p2868 N84-28205

CHROMIUM OXIDES
NT CHROMITES
Sintering behavior of refractories in the ternary system ZrO2-Al2O3-Cr2O3 in dependence of the firing atmosphere
[BMFT-FB-T-83-105] 02 p0197 N84-11285
Characterization of high temperature electrically conducting oxides
[DE84-002887] 08 p1236 N84-18076
Diffusion mechanisms in transition-metal oxides
[DE84-003460] 08 p1236 N84-18081

CHROMIUM STEELS
Fracture behavior of unirradiated HT-9 and modified 9Cr-1Mo welds
[DE83-016021] 01 p0096 N84-10636
Development of modified 9 Cr-1 Mo steel
[DE83-003450] 02 p0194 N84-11282
Hydrogen embrittlement of a 12 Cr-1 Mo steel
[DE83-016781] 02 p0195 N84-11270
Miniature charpy-impact test results for the irradiated ferritic alloys HT-9 and modified 9Cr-1Mo
[DE83-016935] 03 p0354 N84-12300
Structures and properties of rapidly solidified 9Cr-1Mo steel
[DE84-001276] 04 p0499 N84-13276
Microstructure of 9 Cr-1 MoVNb steel irradiated to 40 dpa at elevated temperatures in HFIR
[DE84-000339] 04 p0501 N84-13285
Analysis of hydrogen attack on pressure-vessel steels
[DE84-000061] 04 p0504 N84-13301
Grain boundary segregation and cavity formation in creep embrittled Cr-Mo steels 06 p0817 N84-15320
Evaluation of the pitting corrosion resistance of a Fe-12% Cr alloy 06 p0817 N84-15321
The descaling of 3Cr12 steel
06 p0817 N84-15322
In-reactor creep behavior of selected ferritic alloys
[DE83-017005] 07 p0976 N84-16322
Creep properties of modified 9 Cr-1 Mo steel
[DE84-003174] 07 p0976 N84-16328
Influence of the tramp elements on the properties of steel, metallurgical processes for controlling the contents of tramp elements
[BMFT-FB-T-83-189] 07 p0977 N84-16331
Development of modified 9 Cr-1 Mo steel for elevated-temperature service
[DE84-003161] 08 p1133 N84-17372
Mechanical properties of a modified 2 1/4 Cr-1 Mo steel for pressure vessel applications
[DE84-004105] 09 p1285 N84-18394
Fracture toughness of ferritic alloys irradiated in HFIR
[DE84-004594] 10 p1462 N84-19547
Influence of the viscous environments on fatigue crack propagation in a lower strength steel
[DE84-008247] 14 p2128 N84-23761
Creep-low cycle fatigue interaction of 2 1/4 Cr 1 Mo steel at high temperature 16 p2501 N84-26051
Experimental study of behavior of cylindrical shells with lumped masses under dynamic external pressure
17 p2650 N84-26947
Stability analysis of elastic-plastic rectangular plate with opening 24 p3958 N84-35062

CHROMOSOMES
Nonaerospace uses of JPL technology: A report on technology transfer
[NASA-CR-172804] 15 p2429 N84-25588
Computer-assisted chromosome analysis
15 p2430 N84-25590
Gene mutations, chromosome aberrations and survivability after X-ray irradiation of Chinese hamster cell culture under conditions of cysteamine protection
17 p2743 N84-27413
Genetic study of plasmid integration in yeast chromosomes. Report 1: Effect of integration of episomal plasmid in meiotic crossover in chromosome 3
23 p3806 N84-34131
Genetic study of plasmid integration in yeast chromosomes. Report 2: Analysis of irregular meiotic segregation 23 p3806 N84-34132
Obtaining yeast vector marked by mutation of multiple antibiotic resistance 23 p3806 N84-34133

CHROMOSPHERE
The modelling of the solar upper photosphere and lower chromosphere based upon ATM data
[NASA-CR-170920] 02 p0308 N84-12021
HRTS observations of the fine structure and dynamics of the solar chromosphere and transition zone
03 p0466 N84-13070
Measurements of chromospheric densities and geometrical extensions of late-type giant and super-giant stars
[NASA-CR-175236] 07 p1089 N84-17079
The calculation of theoretical chromospheric models and the interpretation of solar spectra from rockets and spacecraft
[NASA-CR-175351] 07 p1092 N84-17105
Consequences of a chromospheric temperature gradient on the width of H Alpha in late-type giants
[NASA-CR-173359] 09 p1415 N84-19260
2nd Joint Solar Dynamics Project data summary: Solar magnetic field, chromospheric and coronal observations near the time of the 11 June 1983 solar eclipse
[NASA-CR-173340] 09 p1417 N84-19272
The emission line spectra of cataclysmic variable accretion disks 16 p2576 N84-26533
Localization of X-ray bright spots relative to cells in solar chromospheric grid 19 p2974 N84-28854
Observations and analysis of solar flares using H Alpha spectral profiles 21 p3526 N84-32395
Corona models tested with IUE and Einstein observations 24 p3970 N84-35139
Ultraviolet and optical observations of metal deficient red giants and chromospheric models
24 p3974 N84-35166
Search for chromospheric indicators in A dwarf stars
24 p3974 N84-35169
The search for superionization lines in A dwarf stars
24 p3975 N84-35171
The wind and chromosphere of the Herbig Ae star AB Aur as seen by IUE 24 p3975 N84-35173

CHRONOGRAPHS
U CHRONOMETERS

CHRONOLOGY
NT GEOCHRONOLOGY
Double beta decay: Recent developments and projections
[DE84-000476] 04 p0596 N84-13944
Hf-182: A new stopwatch for the early solar system
[DE83-011486] 07 p1090 N84-17088
Cosmic ray exposure ages of iron meteorites, complex irradiation and the constancy of cosmic ray flux in the past 11 p1755 N84-21455
Neotectonics of the north frontal fault system of the San Bernardino Mountains, southern California: Cajon Pass to Lucerne Valley 13 p2013 N84-23081
Martian crater size distributions and terrain age
13 p2077 N84-23462
Mercury: New identification of ancient multi-ring basins and implications for geologic evolution
13 p2077 N84-23463
The crater density of a linear feature
15 p2427 N84-25577
Dependence of crustal structure of eastern Pacific Ocean on its age 20 p3223 N84-30483
Structure of ocean floor in relation to conditions for formation of lithosphere 20 p3223 N84-30484
Geology, petrology and geochronology of the metamorphic rocks of Meatiq Dome, Central Eastern Desert, Egypt 22 p3621 N84-32942

CHRONOMETERS
The 182-Hf: A new short-lived r-process chronometer
[DE83-015698] 05 p0764 N84-15009

CHRONOTRONS
U PULSE RATE
U TIME LAG

CHUCKCHI SEA
Arctic ice island and sea ice movements and mechanical properties
[DE84-014324] 23 p3803 N84-34116

CHUGGING
U COMBUSTION STABILITY

CHUTES
Methods for analysis of cracks in three-dimensional solids
[NASA-TM-86266] 20 p3201 N84-30330
Special features of the formation of a bed of polydispersed free-flowing materials
[BLL-M-35674-(5828.4)] 22 p3592 N84-32747

CINEFLUOROGRAPHY
U MOTION PICTURES
U RADIOGRAPHY

CINEMATOGRAPHY
Mechanisms of wear in single and two-phase materials
[DE83-014651] 01 p0091 N84-10592
Super 8 film scanning set by using a CCD-line
[BMFT-FB-T-83-249] 10 p1483 N84-19697
Requirements to be met by parameters of high-definition television systems for cinematography
17 p2633 N84-26841

CINERADIOGRAPHY
U MOTION PICTURES
U RADIOGRAPHY

CIRCADIAN RHYTHMS
Biological clocks and shift work scheduling
[GPO-21-747] 03 p0415 N84-12713
Symposium on mathematical modeling of circadian systems
[AD-A133636] 05 p0713 N84-14673
Sleep and wakefulness handbook for flight medical officers
[AGARD-AG-270(FR)] 06 p0891 N84-15788

Diurnal rhythm in the cell-division frequency of prochloron (prochlorophyta) in nature
10 p1544 N84-20118
Dynamic models of neural systems: Propagated signals, photoreceptor transduction, and circadian rhythms
[AD-A137826] 11 p1695 N84-21059
Circadian rhythms and sustained operations
11 p1697 N84-21067
Adaptation to irregularity of rest and activity
11 p1697 N84-21070
Some issues in research on effects of sustained work and sleep loss on performance
11 p1697 N84-21071
Circadian rhythm of human heart rate during antiorthostatic tests 15 p2376 N84-25259
Effect of working in two shifts on circadian rhythm of heart rate 15 p2376 N84-25260
Biological clocks and shift work scheduling
[GPO-29-312] 15 p2379 N84-25277
Circulatory dynamics in expeditionary tour of duty
18 p2896 N84-26372
Effects of natural light conditions on biorhythms in polar dwellers 18 p2897 N84-26376
Circadian pattern of simian functional parameters during hypokinesia and in the recovery period
20 p3253 N84-30650
Changes in arterial pressure in static work as function of time of day and degree of disturbance in Earth's magnetic field 21 p3456 N84-31930
USSR report: Life sciences. Biomedical and behavioral sciences
[JPRS-UBB-84-018] 22 p3629 N84-32996
Pilot jet lag experiments described
22 p3629 N84-32997
The effect of lesions in the preoptic-anterior hypothalamus on the reflexive responses of rats to cold stress
[AD-A144020] 23 p3805 N84-34126

CIRCLES (GEOMETRY)
NT GREAT CIRCLES
A generalization of Denjoy's theorem on diffeomorphisms of the circle
[AD-A130575] 01 p0130 N84-10848
A direct approach to the Villarceau circles of a torus
[AD-A141653] 19 p3066 N84-29587
Variability orderings related to coverage problems on the circle
[AD-A143364] 22 p3648 N84-33130

CIRCUIT BOARDS
Flexible composite film for printed circuit board
[NASA-TM-77109] 01 p0069 N84-10452
Insulation-resistance measurements of coated and uncoated printed wiring boards
[DE83-015457] 01 p0074 N84-10489
The C-squared system: A general-purpose neuron network model
[AD-A136191] 09 p1304 N84-18524
Circuit Board Intermediate Language (CBIL): A data base for circuit board description
[IND-FB-110] 09 p1369 N84-18942
Single circuit board implementation of a Digitally Compensated SAW Oscillator (DCSO)
[AD-A138313] 12 p1812 N84-21812
Printed circuit board layout by microcomputer
[AD-A138427] 12 p1813 N84-21816
An approach for multilayer PCB (Printed circuit boards) design with automatic routing
[AD-A138072] 12 p1880 N84-22255
An assessment of the reliability of edge connectors — circuit boards
[ERA-82-22] 13 p1965 N84-22888
An evaluation of permanent solder masks for high reliability applications
[AD-A139234] 14 p2134 N84-23787
The repair and modification of printed-circuit boards and solder joints for space use
[ESA-PSS-01-728-ISSUE-1] 16 p2477 N84-25881
Advanced application of the printed circuit board testability design and rating system
[AD-A141147] 18 p2834 N84-27989
The evaluation and approval of automatic machine wave soldering for ESA spacecraft hardware
[ESA-PSS-01-707] 20 p3182 N84-30215
MIL-STD-1553B in MRASM (Medium Range Air to Surface Missile): The designer's challenge
[AD-P003541] 21 p3333 N84-31145
Three-dimensional circuit layouts
[AD-A143430] 22 p3586 N84-32713
High speed laser formation of small diameter apertures in printed circuit board blanks 24 p3874 N84-34547
Capacity selector valve electronics enclosure assembly controller card assembly test specifications: Revision
[AD-A144349] 24 p3898 N84-34682

CIRCUIT BREAKERS
Derated application of parts for (Electronic System Division) systems development
[AD-A133880] 05 p0674 N84-14429
Reliability modeling of critical electronic devices
[AD-A135705] 09 p1328 N84-18669
New techniques for medium voltage SF6 switches
[CAHIERS-TECHNIQUES-121]
10 p1488 N84-19726
Interruption of a dry-type transformer in no-load by a vacuum circuit-breaker
[EUT-83-E-141] 10 p1489 N84-19737
Fault detection and protection system for neutral beam generators on the Neutral Beam Engineering Test Facility (NBETF)
[DE84-006634] 12 p1903 N84-22394
Rotating arc cutoff with a Fluarc switch or a Rollarc contactor in SF6
[CAHIERS-TECHNIQUES-123]
15 p2330 N84-24993
Development of a solid-state circuit breaker concept
[DE84-009110] 15 p2414 N84-25493
Solar concentrator protective system
[NASA-CASE-NPO-15662-1] 18 p2867 N84-28204
Switching transients in a superconducting coil
[DE84-012592] 21 p3393 N84-31532

CIRCUIT DIAGRAMS
RF front end interface and AGC modification
02 p0168 N84-11102
Circuit Board Intermediate Language (CBIL): A data base for circuit board description
[IND-FB-110] 09 p1369 N84-18942
Mental representation of circuit diagrams: Individual differences in procedural knowledge
[AD-A136876] 10 p1550 N84-20159
Printed circuit board layout by microcomputer
[AD-A138427] 12 p1813 N84-21816
VLSI systems of digital signal processing for consumer applications
[BMFT-FB-T-84-060] 19 p3019 N84-29143

CIRCUIT PROTECTION
Control fo switching induced surges using SF6 devices
[CAHIERS-TECHNIQUES-125]
15 p2331 N84-24995
Selectivity of low tension circuit protection: The SELLIM system
[CAHIERS-TECHNIQUES-126]
15 p2331 N84-24996
Alternative power supply and dump resistor connections for similar, mutually coupled, superconducting coils
[DE84-012602] 21 p3393 N84-31534
Performance and test criteria for dc fuses, phase 1
[PB84-202662] 21 p3395 N84-31548
Source-circuit design overview
22 p3582 N84-32684
Grounding and fault protection of the SMUD PVI array
22 p3584 N84-32698

CIRCUIT RELIABILITY
Application guidelines for quality assurance procedures for hybrid microcircuits
[AD-A131395] 02 p0214 N84-11405
INTAC: A computer-aided test interface
[INPE-2792-TDL/138] 04 p0524 N84-13446
INTAC: Digital and analog circuit test language
[INPE-2764-PRE/338] 08 p1211 N84-17898
Lifetime prediction for electronic components and circuits using the phase noise measuring method
[FB-111] 10 p1487 N84-19723
INTAC: Digital and analog circuit test stations
[INPE-2741-PRE/320] 11 p1656 N84-20803
Liu fault diagnosis investigation
[AD-A137552] 11 p1706 N84-21119
Circuit transmission integrity of plenum cables in a developing fire scenario 11 p1726 N84-21262
Reliability assurance using test structures, phase 2 — MOS testing
[ESA-CR(P)-1827-VOL-1] 12 p1825 N84-21894
Reliability assurance using test structures, phase 3 — MOS testing
[ESA-CR(P)-1827-VOL-2] 12 p1825 N84-21895
Low power 2-of-3-valued CMOS self-checking circuits
[AD-P002334] 14 p2190 N84-24125
An algebraic method for hazard analysis with the maximum number of spikes in combinational and sequential circuits
[AD-P002369] 14 p2194 N84-24160
VLSI (Very Large Scale Integrated) self-testing using exhaustive bit patterns
[AD-A144299] 24 p3898 N84-34681

CIRCUITS
NT ADDING CIRCUITS
NT ANALOG CIRCUITS
NT BISTABLE CIRCUITS
NT CIRCULATORS (PHASE SHIFT CIRCUITS)
NT COUNTING CIRCUITS
NT COUPLING CIRCUITS
NT DELAY CIRCUITS
NT DIGITAL INTEGRATORS
NT DIPLEXERS
NT ECHO SUPPRESSORS
NT ELECTRIC BRIDGES
NT EQUIVALENT CIRCUITS
NT FEEDBACK CIRCUITS
NT FLIP-FLOPS
NT FLUID SWITCHING ELEMENTS
NT GATES (CIRCUITS)
NT HYBRID CIRCUITS
NT INTEGRATED CIRCUITS
NT ITERATIVE NETWORKS
NT LARGE SCALE INTEGRATION
NT LINEAR CIRCUITS
NT LINEAR INTEGRATED CIRCUITS
NT LOGIC CIRCUITS
NT MAGNETIC CIRCUITS
NT MATRICES (CIRCUITS)
NT MICROWAVE CIRCUITS
NT MIXING CIRCUITS
NT PHASE DETECTORS
NT PHASE SHIFT CIRCUITS
NT PNEUMATIC CIRCUITS
NT POWER SUPPLY CIRCUITS
NT PRINTED CIRCUITS
NT RC CIRCUITS
NT SCALERS
NT SWITCHING CIRCUITS
NT TRANSISTOR CIRCUITS
NT TRIGGER CIRCUITS
NT TTL INTEGRATED CIRCUITS
NT VERY LARGE SCALE INTEGRATION
NT VHSIC (CIRCUITS)
NT WHEATSTONE BRIDGES
Modeling of parasitic effects in discrete passive components
[AD-A130458] 01 p0070 N84-10460
Control system for an induction motor with energy recovery
[NASA-CASE-MFS-25477-1] 05 p0673 N84-14424
The 240-kA switch with potential application in electromagnetic-launch systems
[DE84-001174] 05 p0677 N84-14449
Calculation of cosmic ray induced single event upsets: Program CRUP (Cosmic Ray Upset Program)
[AD-A133620] 06 p0941 N84-16113
Ladder supported ring bar circuit
[NASA-CASE-LEW-13570-1] 07 p0995 N84-16452
BERTHA: A versatile transmission line and circuit code
[AD-A135024] 08 p1209 N84-17886
Intrasystem Analysis Program (IAP) code summaries
[AD-A135673] 09 p1301 N84-18507
Loop gain and circuit parameters for residual carrier tracking in the advanced DSN block V receiver
10 p1474 N84-19625
Cryogenically cooled broad-band GaAs field-effect transistor preamplifier
[DE84-004166] 10 p1487 N84-19722
Mental representation of circuit diagrams: Individual differences in procedural knowledge
[AD-A136876] 10 p1550 N84-20159
VLSI circuit simulation using a vector computer
10 p1559 N84-20215
Linear longitudinal oscillations in collisionless plasma diodes with thin sheaths. Part 2: Application to an extended pierce-type problem
[AD-A138963] 10 p1585 N84-20389
Liu fault diagnosis investigation
[AD-A137552] 11 p1706 N84-21119
Air-to-ground HF (High Frequency) propagation prediction model for fast multicircuit computation
[PB84-145961] 12 p1810 N84-21802
Polymer thick-film conductors and dielectrics for membrane switches and flexible circuitry
12 p1840 N84-21994
Optical Information Processing for Aerospace Applications 2
[NASA-CP-2302] 12 p1904 N84-22402
Generalized adaptive node concept
13 p1977 N84-22833
Programmable scan/read circuitry for charge coupled device imaging detectors — spacecraft attitude control and star trackers
[NASA-CASE-NPO-15345-1] 13 p2042 N84-23247
A circuit design for multiplexed digital correlation at 60 MHz
[AD-A139117] 14 p2142 N84-23842
SAR transmitter
[SES/ENG/TN-254/83] 16 p2484 N84-25928
USSR report: Electronics and electrical engineering
[JPRS-UEE-84-007] 17 p2630 N84-26821
Reference flat pulse generator
[PB84-162163] 17 p2672 N84-27030

Harmony theory: Problem solving, parallel cognitive models and thermal physics
[AD-A140877] 17 p2759 N84-27515
Dielectric based submillimeter backward wave oscillator circuit
[NASA-CASE-LEW-13736-1] 18 p2831 N84-27974
An improved logarithmic amplifier circuit for PDS microdensitometers 18 p2841 N84-28034
Total temperature probe buffer amplifier
[AD-D011037] 19 p3027 N84-29197
Europe approaches chaos with electrical circuits
[AD-A142085] 20 p3177 N84-30179
Large-signal characterization of nonlinear two-port active networks
[AD-A142462] 20 p3178 N84-30184
Lossless symmetric TEM line IMPATT diode power combiners
[AD-A142599] 20 p3178 N84-30187
Biasing and fast degaussing circuit for magnetic materials
[DE84-011281] 20 p3285 N84-30857
Use of Peltier effect for small signal amplification and conversion 20 p3286 N84-30864
The new algorithm for symbolic network analysis
21 p3390 N84-31509
USSR report: Electronics and electrical engineering
[JPRS-UEE-84-006] 22 p3565 N84-32580
Measurement amplifier
[NASA-CASE-MFS-25868-1] 22 p3581 N84-32680
Source-circuit design overview
22 p3582 N84-32684
Source circuit design considerations
22 p3583 N84-32690
Hipot and continuity qualification est experience
22 p3583 N84-32692
Laboratory experience with voltage breakdown
22 p3583 N84-32693
Three-dimensional circuit layouts
[AD-A143430] 22 p3586 N84-32713
Variable gain oven temperature control circuit
[AD-D011141] 22 p3597 N84-32778
A new solar cell design for improved open circuit voltage and high efficiency
[NASA-CASE-NPO-16126-1] 22 p3616 N84-32911
A microwave oscillator controlled by pressure and stabilized by a 1250 MHz cavity resonator — single channel per carrier transmission
[INPE-3173-PRE/543] 23 p3741 N84-33712
Multilayer ceramic capacitor
[AD-D011166] 23 p3742 N84-33723
Automatic gain control circuit for video signals of scenes of varying illumination levels
[AD-A144198] 24 p3894 N84-34658
Electronic 4-wheel drive control device
[NASA-TM-77618] 24 p3910 N84-34764
Monolithic 8-bit converter 24 p3960 N84-35073

CIRCULAR CONES
Optimization of waverider configurations generated from non-axisymmetric flows past a nearly circular cone
06 p0780 N84-15108
Separation flow of transsonic water stream past circular cone 17 p2647 N84-26929
Supersonic flows around a circular cone with or without blowing on the surface
[AD-A143258] 22 p3532 N84-32362

CIRCULAR CYLINDERS
On the stability of the unsteady boundary layer on a cylinder oscillating transversely in a viscous fluid
[NASA-CR-172216] 01 p0076 N84-10499
The evolution equations for Taylor vortices in the small gap limit
[NASA-CR-172249] 01 p0077 N84-10501
Stability of a pair of stationary vortices in the leeward side of a cylinder in a potential flowfield
[AD-A131917] 03 p0320 N84-12095
Heat transfer distributions around nominal ice accretion shapes formed on a cylinder in the NASA Lewis icing research tunnel
[NASA-TM-83557] 05 p0679 N84-14483
Bending elasticity of circularly notched bars as monolithic flexure hinges in precision mechanisms
[DE84-002199] 06 p0861 N84-15612
Steady viscous flow past a circular cylinder
10 p1560 N84-20223
Three-dimensional locating of industrial parts
[PB84-134790] 11 p1641 N84-20731
Effect of a rotor wake on heat transfer from a circular cylinder
[NASA-TM-83613] 12 p1815 N84-21832
A solution to the problem of the flow around a circular cylinder between two parallel plates with the Monte Carlo method
[PREPRINT-791] 12 p1817 N84-21846
Aeroacoustic noise measurements in wind tunnel
14 p2097 N84-23584
Water-tunnel study of transition flow around circular cylinders
[NASA-TM-85879] 14 p2100 N84-23606
Investigation of the effects of pressure gradient, temperature and wall temperature ratio on the stagnation point heat transfer for circular cylinders and gas turbine vanes
[NASA-CR-174667] 14 p2109 N84-23649
First stage of equipment for aircraft Do 28 of DFVLR as a research aircraft for icing and first research results
[DFVLR-FB-83-40] 15 p2259 N84-24571
Turbulence effect on laminar separation on a circular cylinder 15 p2314 N84-24889
Oblique vortex induced vibration of cylinders
[BU-295] 15 p2350 N84-25104
Investigation of a cylindrical inflated beam-column structure
[BU-301] 15 p2350 N84-25105
An empirical model for vortex-induced vibrations
[PB84-161157] 16 p2493 N84-25998
Mathematical modeling of transient separation flow around circular cylinder 17 p2644 N84-26916
Three-dimensional stressed state of longitudinally corrugated elastic cylinders 17 p2651 N84-26950
Residual stresses in long double-layer cylinder under nonsteady cooling 17 p2651 N84-26953
Turbulence and surface heat transfer near the stagnation point of a circular cylinder in turbulent flow
[NASA-TM-83732] 19 p3021 N84-29157
A review of some Reynolds number effects related to bodies at high angles of attack
[NASA-CR-3809] 21 p3325 N84-31097
Mass transfer from a circular cylinder: Effects of flow unsteadiness and slight nonuniformities
[NASA-CR-174759] 22 p3593 N84-32751
Heat transfer from a circular cylinder due to a slot jet impingement 23 p3748 N84-33747
Large structure in the far wakes of two-dimensional bluff bodies
[AD-A143642] 23 p3747 N84-33751
Collapse of long stiffened circular cylinders under combined axial bending and pressure loading
23 p3759 N84-33625

CIRCULAR ORBITS
NT STATIONARY ORBITS
Close approaches between satellites in circular orbits
[AD-A133779] 05 p0642 N84-14224
Orbital motion of a freely coning solar sail
[AD-A136794] 10 p1435 N84-19381
Stability diagrams for a rigid gyrostat in a circular orbit
[UTIAS-TN-243] 17 p2671 N84-27023
Numeric extension of periodic solutions to Lagrangian system with two degrees of freedom
19 p2972 N84-28643
Quasicircular equatorial orbits of artificial earth satellites with allowance for light pressure
19 p2974 N84-28651

CIRCULAR PLATES
Prediction of impact force and duration during low velocity impact on circular composite laminates
[NASA-TM-85703] 02 p0188 N84-11219
Bending of transversally loaded orthotropic rectangular and sector plates 03 p0367 N84-12520
Comparison of the stress concentration factor of a hole near a circular edge notch with an engineering estimate
[AD-A137691] 11 p1668 N84-20882
Vibration and flutter of mistuned bladed-disk assemblies
[NASA-TM-83634] 14 p2157 N84-23923
Stresses and displacements in linear Maxwell non-isothermal circular plates on Winkler foundation and with radial and transverse variation in material properties
22 p3608 N84-32856

CIRCULAR POLARIZATION
A polarization diversity radar data processor
[AD-A134011] 05 p0666 N84-14382
The circularly polarized sun at 12.6 cm wavelength
[AD-A133668] 06 p0940 N84-16110
The simplest solar microbursts flux and circular polarization at 22 GHz
[INPE-2970-PRE/436] 07 p1092 N84-17104
Circular polarimetry of the magnetic compact binary AM Herculis 09 p1414 N84-19251

CIRCULAR SHELLS
Pressure measurements in a rapidly rotating and coning, highly viscous fluid
[AD-A136824] 10 p1491 N84-19753

CIRCULAR TUBES
An experimental study of steady and pulsating heat transfer in curved tubes 06 p0845 N84-15515
Developing flow in S-shaped ducts. 2: Circular cross-section duct
[NASA-CR-3759] 09 p1312 N84-18572
Helical shear of an elastic circular tube with non-convex stored energy 15 p2313 N84-24882
Improvement of heat treatment of tubes of steel 15Kh5M
[BLL-M-35545-(5828.4)] 17 p2621 N84-26774
Studies of heat transfer in complex internal flows
[AD-A140804] 17 p2668 N84-27014

CIRCULAR WAVEGUIDES
Compact broadband rectangular to coaxial waveguide junction
[AD-D011091] 22 p3587 N84-32716

CIRCULATION
NT ATMOSPHERIC CIRCULATION
NT BLOOD CIRCULATION
NT BRAIN CIRCULATION
NT COASTAL CURRENTS
NT CONGESTION
NT CORONARY CIRCULATION
NT OCEAN CURRENTS
NT PERIPHERAL CIRCULATION
NT PULMONARY CIRCULATION
NT WATER CIRCULATION
NT WATER CURRENTS
Microprocessor-based control system for flowing-electrolyte zinc-bromine battery systems
[DE83-012506] 03 p0369 N84-12403
Prototype tidal data analysis for Mississippi Sound and adjacent areas
[AD-A134071] 06 p0883 N84-15744
Numerical predictions of residence times behind a rearward facing step with transverse injection
13 p1951 N84-22687
Mathematical model of power station blocks with forced circulation steam generation
[DRIC-T-7008] 15 p2389 N84-25332
Large-scale atmosphere-ocean coupling
[AD-A143162] 21 p3447 N84-31873

CIRCULATION CONTROL AIRFOILS
Investigation of a pneumatic thrust deflector based on circulation control technology
[AD-A128950] 11 p1652 N84-20784
Helicopter anti-torque system using strakes
[NASA-CASE-LAR-13233-1] 23 p3692 N84-33400

CIRCULATION CONTROL ROTORS
A time domain analysis of a rigid two-bladed fully gimballed helicopter rotor with circulation control
[AD-A136947] 10 p1422 N84-19296

CIRCULATORS (PHASE SHIFT CIRCUITS)
A 20-GHz IMPATT transmitter, summary
02 p0212 N84-11386

CIRCULATORY SYSTEM
NT AORTA
NT ARTERIES
NT BLOOD VESSELS
NT CAPILLARIES (ANATOMY)
NT VASCULAR SYSTEM
NT VEINS
Water immersion and its computer simulation as analogs of weightlessness
[NASA-CR-171748] 08 p1200 N84-17821
Cardiovascular reactions on orthostasis and weightlessness 17 p2744 N84-27424

CIRCUMSOLAR RADIATION
Measurement and analysis of diffuse solar irradiance
13 p2091 N84-23546

CIRCUMSTELLAR MATTER
U STELLAR ENVELOPES

CIRQUES (LANDFORMS)
Cirques of the Marble Mountains, northwestern California 23 p3795 N84-34065

CIRRUS CLOUDS
A study of cirriform clouds over eleven USSR stations
[AD-A130085] 01 p0107 N84-10693
Numerical experiments on the formation and maintenance of cirriform clouds
02 p0252 N84-11649
Modification of the surface temperature by an artificial cirrus cloud
[DE84-011387] 20 p3247 N84-30611
Clouds with appearance like Cb-cloud on satellite imagery 24 p3921 N84-34818

CITIES
NT PHOENIX (AZ)
NT SAN FRANCISCO (CA)
Evaluation of LANDSAT-4 TM and MSS ground geometry performance without ground control
[E84-10022] 01 p0099 N84-10644
Helicopter noise survey conducted at Norwood, Massachusetts on April 27, 1983
[AD-A131053] 01 p0140 N84-10922
Technology assessment of productive conservation in urban transportation
[DE83-012179] 01 p0163 N84-11070
LANDSAT-4 thematic mapper Modulation Transfer Function (MTF) evaluation
[E84-10014] 02 p0236 N84-11552
The synthesized climatic function map
03 p0400 N84-12617

Arizona State science, engineering and technology process
[PB83-237107] 03 p0458 N84-13016
Reflection and identification studies applied to terrain imaging radar
[AD-A132401] 04 p0520 N84-13419
The use of thematic mapper data for land cover discrimination: Preliminary results from the UK SATMaP programme
[E84-10038] 04 p0551 N84-13631
Stratified maximum temperature relationships between sixteen zone stations in Arizona and respective key stations
[PB83-249804] 04 p0568 N84-13746
Measuring energy use in urban travel using a sketch planning model
[DE83-015375] 05 p0761 N84-14992
Urban millimeter wave propagation studies
[AD-A134465] 07 p0993 N84-16439
An initial analysis of LANDSAT 4 Thematic Mapper data for the classification of agricultural, forested wetland, and urban land covers
[E84-10073] 07 p1020 N84-16620
Evaluation of performance measures for an urban photochemical model
[PB84-115082] 09 p1343 N84-18771
Relation of urban model performance to stability
[PB84-130418] 11 p1676 N84-20940
Application of LANDSAT data to the study of urban development in Brasilia
[E84-10142] 16 p2507 N84-26090
Department of Housing and Urban Development-Independent Agencies Appropriation Act, 1985
[S-REPT-98-506] 16 p2566 N84-26478
Survey of urban meteorological data
[AD-A140890] 17 p2734 N84-27380
Quick look analysis of TM data of the Washington, District of Columbia area 20 p3214 N84-30418
Study of Thematic Mapper and Multispectral Scanner data applications 20 p3215 N84-30421
Thematic Mapper data quality and performance assessment in renewable resources/agriculture remote sensing 20 p3215 N84-30422
Preliminary comparisons of the information content and utility of TM versus MSS data 20 p3215 N84-30423
Relative accuracy assessment of LANDSAT-4 MSS and TM data for level 1 land cover inventory 20 p3217 N84-30432
Sunlight probability data for select cities in the US
[DE84-000006] 20 p3247 N84-30605
Urban scale variations of turbulence parameters and fluxes
[PB84-209113] 22 p3626 N84-32980
Multitemporal LANDSAT urban area classification 23 p3768 N84-33886

CITRIC ACID
On the mechanism of the biological conversion of citric acid. 6: Citrate-synthase is an acetyl-CoA enolase
[NRC/CNR-TT-2074] 07 p0965 N84-16256

CIVIL AVIATION
USSR report: Transportation, no. 126
[JPRS-84457] 01 p0001 N84-10001
Minister Bugayev promises improved Aeroflot services 01 p0001 N84-10002
Deputy Minister Svechnikov on civil aviation construction projects 01 p0001 N84-10003
Improved air shipment of fruit reported this year 01 p0001 N84-10005
Uzbek SSR city of Shakhrisabz opens new airport: Tourism planned 01 p0001 N84-10007
USSR report: Transportation, no. 129
[JPRS-84573] 02 p0167 N84-11094
Innovations for improving performance, aerodynamic properties of aircraft 02 p0167 N84-11097
Aeroelastic design of civil transports at the project stage 02 p0170 N84-11120
Joint services advanced vertical wing (JVX) program
[GPO-22-771] 02 p0177 N84-11160
Develop a normative or descriptive model of the international/domestic civil aviation industry, volume 3
[AD-A131878] 03 p0314 N84-12051
Develop a normative or descriptive model of the international/domestic civil aviation industry, volume 2
[AD-A131877] 03 p0314 N84-12052
Develop a normative or descriptive model of the international/domestic civil aviation industry. Volume 1: Executive summary
[AD-A131876] 03 p0314 N84-12053
Domestic scheduled air transport for the year 2000. Financial and capacity related effects of supply alternatives, considering, also, the cooperation with high speed rail transport services — West Germany
[DFVLR-FB-83-03] 03 p0328 N84-12141
Information resources management plan
[AD-A131964] 03 p0459 N84-13023
Census of US civil aircraft
[PB83-252460] 04 p0478 N84-13147
Deregulating the airlines: An economic analysis
[PB83-250019] 04 p0617 N84-14070
The 8th FAA Forecast Conference Proceedings
[AD-A132646] 05 p0626 N84-14114
Helicopter noise 06 p0767 N84-15027
Census of US Civil aircraft. Calendar year 1982
[AD-A133161] 06 p0768 N84-15033
Contributions of flight mechanics to civil air traffic 07 p0944 N84-16124
Development of a systems theoretical procedure for evaluation of the work organization of the cockpit crew of a civil transport airplane
[NASA-TM-77359] 07 p1051 N84-16806
Semiannual report to Congress on the effectiveness of the civil aviation security program
[AD-A134860] 08 p1100 N84-17156
Satellite-directed navigational guidance for aircraft
[H-REPT-98-510] 08 p1102 N84-17164
Alternative fuels for general aviation
[GPO-27-618] 08 p1139 N84-17409
Economic cases of the Civil Aeronautics Board, Volume 101, April 1983 to May 1983
[PB84-127695] 09 p1405 N84-19183
Economic cases of the Civil Aeronautics Board, Volume 102, June 1983 to July 1983
[PB84-127703] 09 p1405 N84-19184
Developmental possibilities and restrictions in air transport — conferences
[ESA-TT-744] 10 p1423 N84-19307
Development possibilities in commercial air transport in the Federal Republic of Germany 10 p1423 N84-19308
Possibilities for the future organization of air transport in the European community 10 p1424 N84-19309
The supplier: Constraints and prospects — civil air transport 10 p1424 N84-19311
Airport activity statistics of certificated route air carriers
[AD-A137418] 10 p1424 N84-19313
Compilation of selected aviation laws
[GPO-99-811] 11 p1752 N84-21438
The aerospace industry in Germany: Today and tomorrow 12 p1764 N84-21501
Safety standards on small passenger aircraft with nine or fewer seats are significantly less stringent than on larger aircraft
[PB84-142033] 12 p1767 N84-21526
FAA (Federal Aviation Administration) aviation forecasts -Fiscal Years 1984-1995
[AD-A138759] 13 p1929 N84-22549
USSR report: Transportation
[JPRS-UTR-84-004] 14 p2093 N84-23551
Legal expert expounds on new civil air code 14 p2093 N84-23553
Status report of the programs — of MBB 14 p2105 N84-23626
West Europe report: Science and technology
[JPRS-WST-84-001] 14 p2135 N84-23799
General aviation activity and avionics survey
[AD-A139936] 15 p2254 N84-24536
A vectorized finite element method for computation of transonic tridimensional potential flows
[SNIAS-832-111-105] 15 p2257 N84-24555
USSR report: Transportation
[JPRS-UTR-84-016] 17 p2598 N84-26652
USSR report: Transportation
[JPRS-UTR-84-005] 18 p2784 N84-27668
Hungarian officials comment on performance of Soviet-built aircraft 18 p2784 N84-27670
USSR Report: Transportation
[JPRS-UTR-84-009] 18 p2790 N84-27709
Status, future plans for Aeroflot's meteorological support 18 p2790 N84-27711
Process for renovating aircraft tires tested 18 p2790 N84-27712
An analysis of national aviation policy with respect to America's strategic airlift capability
[AD-A141308] 18 p2946 N84-28679
The changing airline industry: A status report through 1982
[GAO/RCED-83-179] 20 p3127 N84-29858
Decision analysis model for passenger-aircraft fire safety with application to fire-blocking of seats
[AD-A142477] 20 p3127 N84-29859
FAA (Federal Aviation Administration) air traffic activity FY 1983
[AD-A142493] 20 p3127 N84-29861
Report of accomplishments under the airport improvement program
[AD-A142444] 20 p3132 N84-29889
Report to Congress on the effectiveness of the Civil Aviation Security Program
[AD-A143023] 21 p3326 N84-31103
USSR report: Transportation
[JPRS-UTR-84-024] 21 p3329 N84-31119
Voluntary accounting systems for a small air carrier: Revenues, financial and traffic statistics
[PB84-210996] 22 p3533 N84-32369
Economic cases of the Civil Aeronautics Board, volume 104, October - November 1983
[PB84-209287] 22 p3533 N84-32370
Legislation needed to clarify future of consumer protection and federal preemption after the Civil Aeronautics Board sunsets
[PB84-210103] 22 p3533 N84-32371
Definition, analysis and development of an optical data distribution network for integrated avionics and control systems. Part 2: Component development and system integration
[NASA-CR-172429] 22 p3657 N84-33181
USSR report: Transportation
[JPRS-UTR-84-026] 23 p3687 N84-33368
Civil aviation officials review ministerial concerns, goals 23 p3687 N84-33369
Aeroproyekt Institute's work in aviation facility design 23 p3687 N84-33370
USSR report: Transportation
[JPRS-UTR-84-027] 24 p3851 N84-34422
ARSSR civil aviation chief on Aeroflot's work in Armenia 24 p3851 N84-34423
Improvements in work of aircraft repair plant no. 402 24 p3851 N84-34425
Role of aerodynamics in Tupolev, Ilyushin aircraft designs 24 p3851 N84-34426

CIVIL DEFENSE
Risk models for risk distance prediction during release of toxic industrial chemicals caused by acts of war
[FOA-C-40185-C2(H2)] 08 p1183 N84-17707

CLADDING
Evaluation of NRL glass for fiber optics, phase 2
[AD-A136017] 09 p1390 N84-19076
Long-term materials test program
[DE84-006899] 18 p2815 N84-27870
Cladding of carbon steel with stainless steel
[BMFT-FB-T-84-030] 18 p2816 N84-27877
Space nuclear safety program
[DE84-011015] 20 p3298 N84-30943
Weldability of steels: Study of cracking and methods of examination
[BLL-RISLEY-TRANS-4518-(9091.9)] 22 p3550 N84-32475
Generalization of results of electro-simulation of temperature of the piece during centrifugal cladding
[BLL-M-35687-(5828.4)] 22 p3551 N84-32479
Clad cast steel strip
[DE84-014245] 23 p3719 N84-33574

CLAMPS
Prosthetic occlusive device for an internal passageway
[NASA-CASE-MFS-25740-1] 02 p0265 N84-11744
Clamp-mount device
[NASA-CASE-MFS-25510-1] 07 p1011 N84-16560
Grippers for an unmanned forging cell
[AD-A134237] 07 p1051 N84-16808
Flexible conformable clamps for a machining cell with applications to turbine blade machining
[AD-A134942] 08 p1167 N84-17596
The introduction of clampbands in spacecraft structural mathematical models
[EMSB-12/83] 12 p1782 N84-21627
Testing and control of a compliant wrist
[AD-A140842] 17 p2748 N84-27445
Double arch mirror study. Part 1: Preliminary engineering report
[NASA-CR-166589-PT-1] 21 p3412 N84-31634
Methods for use of the single-electrode voltage clamp
[AD-A144177] 24 p3897 N84-34676

CLARITY
Visual clarity with a black-and-White scene
[AD-A141496] 19 p3065 N84-29445

CLARK Y AIRFOIL
U AIRFOIL PROFILES

CLASSIC AIRCRAFT
U IL-62 AIRCRAFT

CLASSICAL MECHANICS
NT ASTRODYNAMICS
NT CELESTIAL MECHANICS
NT KEPLER LAWS
NT MINIMUM VARIANCE ORBIT DETERMINATION
NT ORBITAL MECHANICS
Fluid thermodynamics
[ESA-TT-778] 06 p0845 N84-15512
Filamentation in the plasma focus as a plasma Meissner effect 10 p1584 N84-20380
Normal modes of a LaGrangian system constrained in potential well
[AD-A137948] 11 p1715 N84-21187

CLASSIFICATIONS
NT BBGKY HIERARCHY
NT HIERARCHIES
NT INDEXES (DOCUMENTATION)
NT SUBJECTS
Update and review of accuracy assessment techniques for remotely sensed data
[E84-10029] 01 p0099 N84-10646
Determination of the Pavement Classification Number (PCN) of airfields
[ISBN-3-87977-0530] 02 p0182 N84-11185
Assessment of potential SSM/I (Special Sensor Microwave/Imager) ice products in light ESMR (Electrically Scanning Microwave Radiometer) and SMMR (Scanning Microwave Spectrometer) ice classification algorithms
[AD-A130961] 02 p0239 N84-11570
Auroral arc classification scheme based on the observed arc-associated electric field pattern
[TRITA-EPP-83-01] 02 p0251 N84-11641
X-ray and optical studies of extragalactic X-ray emitters 02 p0308 N84-12024
Autoregressive models for use in scene segmentation 03 p0393 N84-12561
Spline classification methods 03 p0393 N84-12564
Mesocyclone detection and classification algorithm
[AD-A131826] 03 p0411 N84-12691
On a relation between Maximum-Likelihood classification and Minimum-Cross-Entropy classification
[AD-A132237] 04 p0521 N84-13426
Screening and classification of ceramic powders
[NASA-TM-77092] 06 p0809 N84-15270
Classification and area estimation of land covers in Kansas using ground-gathered and LANDSAT digital data
[E84-10068] 06 p0865 N84-15637
Practical applications of advances in aviation medicine 07 p1044 N84-16770
An approach to rotation invariant texture classification and some experimental results
[AD-A134197] 07 p1061 N84-16881
A catalogue of spreading modulation spectra
[AD-A134850] 08 p1145 N84-17454
The effect of various carbon sources on the growth of single-celled cyanophyta
[NASA-TM-77090] 08 p1197 N84-17804
The covariant classification of two-dimensional smooth commutative formal groups over an algebraically closed field of positive characteristic
[MATH-CENTRE-TRACTS-157] 08 p1223 N84-17989
Frequency of fast, narrow gamma-ray bursts and burst classification 09 p1407 N84-19190
A classification algorithm for star-galaxy counts 09 p1409 N84-19207
Investigation of forestry resources and other remote sensing data. 1: LANDSAT. 2: Remote sensing of volcanic emissions
[E84-10092] 10 p1522 N84-19963
Analysis and classification of mesoscale cloud and precipitation systems
[PB84-138999] 10 p1542 N84-20104
Classified document handbook
[AD-A137002] 10 p1593 N84-20439
Binary classification and the subtractive approach
[AD-A137716] 11 p1701 N84-21099
Enhancing effectiveness of information retrieval systems with relational thesauri 11 p1747 N84-21399
Medlars indexing instructions, tumar key supplement, 1984 (Technical Notes)
[PB84-120039] 11 p1750 N84-21424
The standardization of bibliographic data 11 p1751 N84-21432
Classification of volcanoes of the Kane Patera Quadrangle of Io: Proportions of lava flows and pyroclastic flows 13 p2080 N84-23477
Classification, causes, and characteristics of fractures 14 p2125 N84-23736
Aerial photography for ecological site mapping 14 p2169 N84-23990
Classification of Nash manifolds 14 p2211 N84-24274
Classification of coastal environments, shorezone profile dynamics
[AD-A139947] 15 p2373 N84-25240
Results of a research study to identify historical RDTE (Research, Development, Test and Evaluation) obligations and expenditures on major Army materiel and non-materiel systems
[AD-A139328] 15 p2416 N84-25508
Principal components technique analysis for vegetation and land use discrimination — Brazilian cerrados
[E84-10135] 16 p2506 N84-26083
Evaluation of entropy and JM-distance criterions as features selection methods using spectral and spatial features derived from LANDSAT images
[E84-10141] 16 p2507 N84-26089
A study of conference publication records in OCLC: Some implications for the formulation and application of cataloging rules 16 p2566 N84-26464
Low rate voice transmission by a classifying vocoder
[ENST-84E002] 19 p3010 N84-29083
Applications of texture analysis for rock types discrimination, phase 2
[AD-A142268] 19 p3042 N84-29303
Impact of Thematic Mapper sensor characteristics on classification accuracy 20 p3213 N84-30410
Assessment of computer-based geologic mapping of rock units in the LANDSAT-4 scene of northern Death Valley, California 20 p3214 N84-30418
Study of Thematic Mapper and Multispectral Scanner data applications 20 p3215 N84-30421
The use of Thematic Mapper data for land cover discrimination: Preliminary results from the UK Satmap programme 20 p3216 N84-30428
LANDSAT-4 Thematic Mapper scene characteristics for a suburban and regional test site 20 p3216 N84-30429
Relative accuracy assessment of LANDSAT-4 MSS and TM data for level 1 land cover inventory 20 p3217 N84-30432
A statistical classification model for a database system 21 p3517 N84-32279
A simulation of remote sensor systems and data processing algorithms for spectral feature classification
[NASA-CR-172393] 22 p3597 N84-32784
Source hierarchy list. Volume 1: A through H
[AD-A143500] 22 p3674 N84-33291
Source hierarchy list. Volume 2: I through Z
[AD-A143501] 22 p3674 N84-33292
Structural description of a LANDSAT Thematic Mapper (TM) scene for improved region-based classification 23 p3766 N84-33873
Multitemporal LANDSAT urban area classification 23 p3768 N84-33886
Low radio frequency extragalactic variable sources 23 p3845 N84-34390
Statistical classification of IUE stellar spectra by the Variable Procrustean Bed (VPB) approach 24 p3975 N84-35178

CLASSIFYING
The complexity of sorting on distributed systems
[AD-A142415] 20 p3281 N84-30825

CLATHRATES
Intercalate phonon densities of states for alkali-graphite compounds
[DE83-016515] 02 p0188 N84-11225
Glass-like carbon: A C/sub x/H polymer intercalation compound
[DE84-001863] 05 p0660 N84-14340
Chemical reactions possibly useful for low temperature thermal energy storage
[DE84-004126] 09 p1342 N84-18763

CLAYS
Influence of deflocculant on the isoelectric point of refractory powders: Considerations on the action of deflocculant
[NASA-TM-77364] 07 p0969 N84-16277
Determination of boundary layer transition and separation on double circular arc compressor blades in a large subsonic cascade
[AD-A137550] 11 p1652 N84-20786
Rheological study of clay-kaolin aqueous suspensions
[NASA-TM-77363] 14 p2121 N84-23711
Deflocculation of clay suspensions using sodium polyacrylates
[NASA-TM-77432] 14 p2121 N84-23712
The role of water in slip casting
[NASA-TM-77578] 14 p2134 N84-23786
Evaluation of Stokes settling equation for variable density aggregates
[AD-A140878] 17 p2721 N84-27322
The performance of civil airport pavement with lime-cement-flyash base course
[FAA-PM-84-10] 19 p2969 N84-26815
Industrial forging applications of shaping simulation using modeling clay
[CETIM-1.3K.36.2] 21 p3376 N84-31424

CLEAN FUELS
NT FUEL OILS

CLEAN ROOMS
Contamination and cleanliness control
[ESA-PSS-01-201-ISSUE-1] 16 p2475 N84-25867

CLEANERS
NT AIR FILTERS
Elastomeric impression materials and cleaning systems for residue removal
[RFP-3442] 06 p0814 N84-15296
Control of respirable particles and radon progeny with portable air cleaners
[DE84-013878] 23 p3812 N84-34170

CLEANING
NT HOUSEKEEPING (SPACECRAFT)
NT ULTRASONIC CLEANING
Elastomeric impression materials and cleaning systems for residue removal
[RFP-3442] 06 p0814 N84-15296
Problems encountered in connection with the removal of small concentrations of noxious gases by the use of liquid absorbents
[BLL-OA-TRANS-3182-(6196.3)] 09 p1277 N84-18337
Influence of surface tension and surface shear on final coat thickness in jet-stripped continuous coating of sheet materials
[AD-A136402] 09 p1314 N84-18586
Advanced cleaning by mass finishing
[DE84-004850] 10 p1472 N84-19612
The cleaning of ECCOSORB AN foam
[ESA-PSS-01-727-ISSUE-1] 16 p2473 N84-25849
The cleaning of GUIDE-SPACE D96 tape
[ESA-PSS-01-732-ISSUE-1] 16 p2477 N84-25862
Seawater hydraulics: Development and evaluation of an experimental diver tool system
[AD-A142032] 19 p3032 N84-29231
Analysis of interactive image cleaning via RASTER-processing techniques
[AD-A141772] 19 p3078 N84-29527
Purification of nitrogen tetroxide for long-term reliability 20 p3137 N84-29920
On orbit surfacing of thermal control surfaces
[NASA-CR-171121] 21 p3352 N84-31266
Ocean thermal energy conversion: Materials issues
[DE84-012094] 21 p3434 N84-31790
Low temperature epitaxial deposition of silicon by plasma enhanced CVD (Chemical Vapor Deposition)
[AD-A143208] 22 p3662 N84-33216

CLEANLINESS
NT HOUSEKEEPING (SPACECRAFT)
Contamination and cleanliness control
[ESA-PSS-01-201-ISSUE-1] 16 p2475 N84-25867
Improved materials characterization for spacecraft applications 24 p3865 N84-34494
Preparation and cleanliness verifications of a space simulation chamber for contamination sensitive test specimens 24 p3865 N84-34495
Contamination control and cleanliness level integrity for the Space Shuttle Orbiter PLB, payloads and facilities at KSC 24 p3865 N84-34498

CLEAR AIR TURBULENCE
Aircraft hazard assessment from a clear-air radar and meteorological tower study of gravity wave events — effect on airspeed
[PB83-257139] 05 p0710 N84-14650
Atmospheric scintillation at 94 GHz
[AD-A134743] 06 p1145 N84-17452
The use of radar in modern meteorology 18 p2686 N84-28315

CLEARANCES
Bone blood flow measured by (41)Ar clearance formed by (44)Ca(n,(-)) (41)Ar
[DE83-017600] 06 p0886 N84-15781
Annulus wall boundary layer development in a compressor stage, including the effects of tip clearance 07 p0957 N84-16207
Oxidizing seal for a turbine tip gas path
[NASA-CASE-LEW-14053-1] 13 p1932 N84-22563
Dual clearance squeeze film damper for high load conditions
[NASA-TM-83619] 15 p2343 N84-25064
Blade endwall flows in an axial flow compressor stage 21 p3343 N84-31209
Aircraft tests in the clearance program for the use of a combat aircraft from a runway after damage repair 24 p3848 N84-34404

CLEAVAGE
A microstatistical model for carbide induced cleavage fracture — of steels
[VTT-RR-220] 07 p1017 N84-16599
Evaluations of the Irwin (ALPHA) sub Ic adjustment for small specimen fracture toughness data
[DE84-003292] 10 p1518 N84-19936
Hydrogen effects on cleavage fracture in fully pearlitic 1080 steel 17 p2621 N84-26778
Workpiece positioning vise
[NASA-CASE-GSC-12762-1] 18 p2848 N84-28083
Cleavage of aromatic carbon-carbon bonds
[DE84-010161] 22 p3543 N84-32432

CLEBSCH-GORDAN COEFFICIENTS
Special functions and group theory in theoretical physics
[DE83-015642] 02 p0301 N84-11975

Hamiltonian representation of equations of hydrodynamics and its use in describing wave movements in currents with shear 18 p2865 N84-28190

CLIFFS
Wind erosion and dune formation on high frozen bluffs 13 p2082 N84-23493
Scarp development in the Valles Marineris 13 p2086 N84-23515

CLIMATE
Geophysical Fluid Dynamics Laboratory activities FY1982, plans-FY1983
[PB83-232627] 01 p0101 N84-10657
Effects of approximate radiation treatments used in the climate models on the clear sky thermal radiation flux and its perturbation due to CO2 increase
[DOE/ER-60023/1] 01 p0104 N84-10674
Meteorological and climatological approach in determining snowpack accumulation at snow course sites in a Montana watershed
[PB83-226652] 01 p0110 N84-10714
The southern oscillation: Oceanic-atmospheric circulation changes and related rainfall anomalies
[INPE-2903-PRE/420] 02 p0253 N84-11656
Climatic reconstructions in the North American arctic during the last 6000 years
[DE83-015836] 02 p0256 N84-11677
Review of potential satellite techniques for mesoscale mapping of insolation
[DE83-011998] 03 p0401 N84-12622
Inventory of numeric data for carbon dioxide research
[DE83-017571] 03 p0406 N84-12657
Climate of Phoenix, Arizona (revised)
[PB83-246801] 03 p0412 N84-12699
Response of the North American corn belt to climate warming, CO2
[DE83-017873] 04 p0564 N84-13721
Commentary on the recent CO2-climate controversy
[DE83-016367] 04 p0565 N84-13722
Bibliography of the climate of the Netherlands and atmospheric conditions in the Netherlands
[KNMI-164] 05 p0708 N84-14635
National Climate Program
[PB83-253278] 05 p0710 N84-14649
Documentation of NCAR (National Center for Atmospheric Research) CCMOB program modules
[PB83-263996] 05 p0710 N84-14651
Users' guide for the NCAR (National Center for Atmospheric Research) CCM (Community Climate Model) modular processor
[PB83-264002] 05 p0710 N84-14652
Pilot climate data system: A state-of-the-art capability in scientific data management
[NASA-TM-85115] 06 p0881 N84-15731
Climate-chemistry connection
[DE84-001950] 06 p0882 N84-15739
Development and perturbation analysis of model stochastic equations for global circulation
06 p0883 N84-15743
Elelson AFB, Alaska. Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F
[AD-A134198] 07 p1036 N84-16723
McGuire AFB, New Jersey. Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F
[AD-A134199] 07 p1036 N84-16724
Duluth, Duluth IAP, Minnesota. Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F
[AD-A134200] 07 p1037 N84-16725
King Salmon, Alaska. Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F
[AD-A134201] 07 p1037 N84-16726
Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F. Kitzingen, West Germany
[AD-A134202] 07 p1037 N84-16727
Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F. Adak NAS, Alaska
[AD-A134203] 07 p1037 N84-16728
Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F. Loring AFB, Maine
[AD-A134204] 07 p1037 N84-16729
Ocean research for understanding climatic variations: Priorities and goals for the 1980's
[PB84-105816] 08 p1192 N84-17768
Passive solar design procedures for Naval installations
[AD-A136329] 09 p1341 N84-18760
Diurnal freeze-thaw frequencies in the high latitude: A climatological guide
[AD-A135869] 09 p1349 N84-18812
Climatic publications
[AD-A136021] 09 p1349 N84-18816
Global temperature patterns 6000 years ago
[DE84-004209] 10 p1537 N84-20072
A study of the weather record from Fance (1872-1980) including an analysis of climate variation
[AD-A136694] 10 p1540 N84-20090
Seasonal climate fluctuations as steady and periodic flow states of a barotropic model of planetary waves
10 p1542 N84-20108
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Tonopah, Nevada
[AD-A137576] 11 p1685 N84-20992
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Travis Air Force Base, California
[AD-A137581] 11 p1686 N84-20996
Climatic study of the southern California operating area near coastal zone
[AD-A137698] 11 p1687 N84-20999
CO/sub 2 climate research plan
[DE84-005461] 11 p1688 N84-21008
Some immunological mechanisms of adaptation of seamen to conditions of low latitude sailing
11 p1694 N84-21052
Design for and efficient dynamic climate model with realistic geography 12 p1856 N84-22092
The sensitivity of a general circulation model to Saharan dust heating 12 p1858 N84-22108
The Amazon and climate
[NASA-CR-173408] 12 p1860 N84-22115
Modeling climatology of areal coverage
[AD-A138276] 12 p1860 N84-22120
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Zaragoza Air Base, Spain
[AD-A138281] 12 p1860 N84-22121
NOAA program for data analysis for the first detection of CO/sub 2 induced-climate change
[DE84-006509] 12 p1861 N84-22125
Changing climate
[PB84-148576] 12 p1862 N84-22135
Freezing of Martian streams under climatic conditions
13 p2083 N84-23498
Wind climate of the Netherlands
[ISBN-90-12-04466-9] 14 p2178 N84-24045
Theoretical analysis of a kinematic Stirling-cycle heat pump for space conditioning applications
[DE84-010240] 15 p2344 N84-25072
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Yokota Air Base, Japan
[AD-A137579] 15 p2372 N84-25229
Geophysical Fluid Dynamics Laboratory activities, FY83, plans FY84
[PB84-148790] 15 p2374 N84-25245
Self-oscillations and predictability in climate dynamics
[AERONOMICA-ACTA-A-278-1984]
16 p2527 N84-26226
Land-surface influences on weather and climate
[NASA-CR-173595] 16 p2529 N84-26234
Climate modeling at Pacific Ocean Institute of Geography 17 p2697 N84-27178
The solar constant, climate, and some tests of the storage hypothesis 17 p2780 N84-27649
Report of the WMO/CAS expert meeting on atmospheric boundary layer parameterization over the oceans for long range forecasting and climate models
[WCP-74] 18 p2884 N84-28297
The problem of climate and climate variations
[WCP-72] 18 p2886 N84-28312
Climatological and statistical bases to explain the treatment of climate data 19 p3056 N84-29391
Reports from the German Meteorological Service. Number 164: The climate in selected areas of the Federal Republic of Germany, Bremen
[ISBN-3-8848-210-5] 19 p3056 N84-29392
Assessing the impact of climatic change in cold regions
[IIASA-SR-84-1] 19 p3057 N84-29394
Oceanic transport 20 p3218 N84-30444
Tropospheric science 20 p3219 N84-30447
Vegetation and climates of the last 45,000 years in the vicinity of the Nevada Test Site, south-central Nevada
[DE84-009032] 20 p3247 N84-30610
Prescription of land-surface boundary conditions in GISS GCM 2: A simple method based on high-resolution vegetation data bases
[NASA-TM-86096] 21 p3430 N84-31761
Climatic change and streamflow in the southwest
[DE84-012658] 21 p3432 N84-31776
Extending normal mode initialization: A new method
[PB84-196435] 21 p3449 N84-31885
Effects of climate on kininogen levels in healthy human subjects 21 p3452 N84-31907
Science support for the Earth radiation budget sensor on the Nimbus-7 spacecraft
[NASA-CR-175251] 22 p3622 N84-32948
Climate prediction. Part 1: Cyclone frequency
[AD-A143576] 22 p3625 N84-32973
Southern oscillation-El Nino events: Characteristics, evolution, and precipitation anomalies
[INPE-2976-PRE/438] 22 p3627 N84-32983
Seasonal climate scenarios for Europe and North America in a high-CO2, warmer world
[DOE/EV-10096/5] 23 p3801 N84-34104
Physiological-hygienic criteria of medical selection of military servicement for work in a hot climate
23 p3807 N84-34135

CLIMATOLOGY
NT AGROCLIMATOLOGY
NT MICROCLIMATOLOGY
Snow and ice research: An assessment
[PB83-231682] 01 p0101 N84-10656
Atlas of mean sea-level pressure
[AD-A130207] 01 p0107 N84-10697
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F. Cape Romanzof AFS, Alaska
[AD-A130206] 01 p0107 N84-10698
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F. Lemoore NAS, California
[AD-A130205] 01 p0108 N84-10699
Ecological models of the Mississippi Deltaic Plain Region: Data collection and presentation
[PB83-239012] 02 p0245 N84-11604
A numerical study of the global axisymmetric circulation with varying heating and rotation rates
02 p0246 N84-11607
The lapse rate, surface albedo and global climatic stability: Experiments with an annual zonal energy balance model 02 p0246 N84-11610
A candidate hypothesis for the generation of quasi-biennial variations in sea level pressure
02 p0252 N84-11652
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F. Altus AFB, Oklahoma
[AD-A131613] 02 p0254 N84-11662
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F. Grissom AFB, Indiana
[AD-A131198] 02 p0254 N84-11665
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F. Ellsworth AFB, Rapid City, South Dakota
[AD-A131196] 02 p0255 N84-11667
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F. Indian Mountain AFS, Alaska
[AD-A131195] 02 p0255 N84-11668
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F. Carswell AFB, Texas
[AD-A131193] 02 p0255 N84-11669
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F. Cape Newenham AFS, Alaska
[AD-A131192] 02 p0255 N84-11670
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F. Tin City AFS, Alaska
[AD-A131191] 02 p0255 N84-11671
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F. Wertheim AAF, West Germany
[AD-A131190] 02 p0255 N84-11672
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F. Loring AFB, Maine
[AD-A131189] 02 p0256 N84-11673
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A, C, and D. Feucht AAF, West Germany
[AD-A131188] 02 p0256 N84-11674
Snowy Range Observatory: Climatological and streamflow data report 1982
[PB83-243147] 03 p0403 N84-12633
Satellite observations of variations in southern hemisphere snow cover
[PB83-252908] 04 p0568 N84-13745
Stratified maximum temperature relationships between sixteen zone stations in Arizona and respective key stations
[PB83-249904] 04 p0568 N84-13746
Significant results from the HCMM program
05 p0696 N84-14568
Tropical cyclones affecting Guam (1671-1980)
[AD-A134016] 05 p0708 N84-14638
Wind speed, stability category, and atmospheric turbulence at selected locations
[AD-A132947] 05 p0709 N84-14645
Possible tidal modulation of the Indian monsoon onset
06 p0879 N84-15721
A comparison study of the energetics of standing and transient eddies between two general circulation models: The GLAS Climate Model and the NCAR Community Climate Model 06 p0880 N84-15726

Blocking in the Southern Hemisphere, during 1975-1979
[INPE-2994-PRE/446] 07 p1032 N84-16696
Meteorological yearbook of Finland, volume 77, part 1b. Climatological data from Jokioinen and Sodankylae Observatories, 1977
[ISBN-951-697-189-X] 07 p1035 N84-16713
Meteorological yearbook of Finland, volume 78, part 1b. Climatological data from Jokioinen and Sodankylae Observatories, 1978
[ISBN-951-697-193-8] 07 p1035 N84-16714
Climatological statistics in Finland, 1961 - 1980 07 p1035 N84-16715
Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F. Buckley ANGB, Colorado
[AD-A134205] 07 p1038 N84-16730
Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F. Elmendorf AFB, Alaska
[AD-A134206] 07 p1038 N84-16731
Limited Surface Observations Climatic Summary (LISOCS). Ft. Richardson, Alaska
[AD-A134207] 07 p1038 N84-16732
Limited Surface Observations Climatic Summary (LISOCS). Finthen AAF, West Germany
[AD-A134208] 07 p1038 N84-16733
Limited Surface Observations Climatic Summary (LISOCS). Colonel A J Bo Baker AAF, West Germany
[AD-A134209] 07 p1038 N84-16734
Limited Surface Observations Climatic Summary (LISOCS). Coleman AAF, West Germany
[AD-A134210] 07 p1038 N84-16735
Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F. Galena AFS, Alaska
[AD-A134211] 07 p1039 N84-16736
Possible tidal modulation of the Indian monsoon onset
[AD-A135441] 08 p1191 N84-17760
Meteorological applications library (CRH.LB)
[PB84-122639] 08 p1193 N84-17776
Resource and potential reclamation evaluation: Northeast Montana investigations
[PB84-112390] 09 p1337 N84-18734
Resource and potential reclamation evaluation: Northeast Montana investigations
[PB84-112408] 09 p1338 N84-18735
Diurnal freeze-thaw frequencies in the high latitude: A climatological guide
[AD-A135869] 09 p1349 N84-18812
El Nino and the southern oscillation: A scientific plan
[PB84-129733] 09 p1351 N84-18825
Radiation and clouds, the International Satellite Cloud Climatology Project (ISCCP) 10 p1535 N84-20060
USSR report: Earth sciences
[JPRS-UES-84-003] 11 p1669 N84-20891
Influence of stratospheric aerosols forming during combustion of rocket fuels on Earth's albedo 11 p1670 N84-20899
On the onset of the planetary scale monsoon 11 p1684 N84-20966
Uijongbu, Camp LaGuardia, Korea, Limited Surface Observations Climatic Summary (LISOCS)
[AD-A137573] 11 p1685 N84-20989
Fort Wainwright, Wainwright AAF, Alaska, Limited Surface Observations Climatic Summary (LISOCS)
[AD-A137574] 11 p1685 N84-20990
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Travis Air Force Base, California
[AD-A137581] 11 p1686 N84-20998
Weather pattern climatology of the US
[DE84-005863] 11 p1688 N84-21011
Satellite-Derived Sea Surface Temperature: Workshop 1
[NASA-CR-173450] 12 p1834 N84-21955
In situ data 12 p1835 N84-21959
Conclusions and recommendations 12 p1835 N84-21962
Water vapor profile retrieval simulation studies for the HIRS/MSU and AMTS/MSU sounders 12 p1851 N84-22058
Comparison of GLAS retrieved cloud fields with model generated rainfall fields 12 p1851 N84-22061
Diagnosis of the GLAS climate model's stationary planetary waves using a linearized steady state model 12 p1856 N84-22095
The water balance and climate
[INPE-2997-PRE/449] 12 p1859 N84-22114
Directory of research publications
[AD-A138224] 12 p1860 N84-22119
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Zaragoza Air Base, Spain
[AD-A138281] 12 p1860 N84-22121
Global energy and CO2-induced climate change
[PB84-145895] 12 p1862 N84-22131
Global energy future and CO2 induced climate change: Executive summary
[PB84-145911] 12 p1862 N84-22133
Case studies on convective storms, case study 1, 13 July 1976: First echo case
[PB84-147479] 12 p1862 N84-22134
Changing climate
[PB84-148576] 12 p1862 N84-22135
North American climatic data catalog, part 1
[PB84-150366] 12 p1863 N84-22136
Proceedings of the Conference on Cooperative Climate Services
[PB84-152081] 12 p1863 N84-22137
Martian paleoclimate 13 p2072 N84-23427
Hydrology of the North Slope, Alaska 14 p2166 N84-23973
Meteorological and climatological conditions affecting the vertical structure of visibility in Northern Germany
[AD-A139126] 14 p2179 N84-24052
Climatological frequency distributions for Juneau, Alaska
[PB84-154814] 14 p2180 N84-24059
Climate fluctuations in Illinois: 1901-1980
[PB84-159896] 14 p2181 N84-24069
Climatic atlas of Texas
[PB84-162908] 14 p2182 N84-24074
Current velocity profiles in the Straits of Florida from the Pegagus current profiler: Subtropical Atlantic Climate Study 1982
[PB84-154335] 14 p2183 N84-24084
Modeling glacial climates
[NASA-TM-86106] 15 p2371 N84-25221
Guide to climatological practices, second edition
[WMO-100] 15 p2371 N84-25225
Self-oscillations and predictability in climate dynamics
[AERONOMICA-ACTA-A-278-1984] 16 p2527 N84-26226
Applications of laser for climatology and atmospheric research
[BLEV-R-85.169-5] 16 p2529 N84-26237
Quantities of interest to climatology and atmospheric physics, volume 2 16 p2529 N84-26239
Limited surface observations climatic summary (Lisocs). Bad Kreuznach, Germany (West)
[AD-A140243] 16 p2530 N84-26243
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Plattsburgh AFB, New York
[AD-A140244] 16 p2530 N84-26244
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: McGhee-Tyson Airport, Tennessee
[AD-A140245] 16 p2530 N84-26245
Jet stream related observations by MST radars 17 p2682 N84-27078
Equatorial MST radars: Further consideration 17 p2683 N84-27083
On the measurement of vertical velocity by MST radar 17 p2687 N84-27111
USSR report: Earth sciences
[JPRS-UES-84-004] 17 p2696 N84-27177
Evaluation of probabilities of large deviations of climatic characteristics from present levels 17 p2697 N84-27179
Solar total irradiance variability measurements by the SMM/ACRIM I experiment 17 p2778 N84-27636
Socialist-bloc Conference on Climate Forecasting 18 p2856 N84-28134
New facts concerning dessication of Central Asia 18 p2856 N84-28136
Analytical model of latitudinal variation of dispersion and spectra of fluctuations of zonally averaged surface temperature 18 p2856 N84-28137
Note on the interaction of the cloud layer and ABL, appendix H 18 p2884 N84-28303
The cloudy marine boundary layer in the meteorological office climate model, appendix I 18 p2885 N84-28304
Brookhaven National Laboratory Coastal Meteorology Program, 1972-1983
[DE84-008584] 18 p2891 N84-28349
Climatology of heating-degree days in the Netherlands during the years 1961-1980
[KNMI-TR-47] 18 p2891 N84-28351
Excess science accommodation capabilities and excess performance capabilities assessment for Mars Geoscience and Climatology Orbiter: Extended study
[NASA-CR-173765] 19 p2978 N84-28882
Climatological and statistical bases to explain the treatment of climate data 19 p3056 N84-29391
Reports from the German Meteorological Service. Number 164: The climate in selected areas of the Federal Republic of Germany, Bremen
[ISBN-3-8848-210-5] 19 p3056 N84-29392
Spatial patterns of climate and climatic change. Part 1: Summary report, appendices 1-5
[DE84-010253] 19 p3059 N84-29408
Wind energy assessment studies in the Goodnoe Hills and Cape Blanco areas
[DE84-010087] 19 p3059 N84-29409
Inevitable climatic changes 20 p3223 N84-30480
Effect of antiscreening of outgoing thermal radiation by cloud cover 20 p3224 N84-30490
Climatological Summary Programs F6 and CLIMAT
[PB84-185941] 20 p3246 N84-30603
Identification and preliminary characterization of global water resource issues which may be affected by CO2-induced climate change
[DE84-011127] 20 p3246 N84-30604
Weather summaries for Coram Experimental Forest, Northwestern Montana: An international biosphere reserve
[PB84-182443] 20 p3248 N84-30615
US Navy hindcast spectral ocean wave model climatic atlas: North Atlantic Ocean
[AD-A141810] 20 p3250 N84-30627
Climatology of ozone at altitudes from 19,000 at 59,000 feet based on combined GASP and ozonesonde data
[NASA-TP-2303] 21 p3448 N84-31685
Humidity/cloud-radiation feedback on possible climatic perturbation due to fossil fuel utilization
[DE84-011895] 21 p3448 N84-31874
Regional wind energy assessment program
[DE84-011832] 21 p3448 N84-31878
Computer programs for summarizing climatic data stored in the National Fire Weather Data Library
[PB84-197011] 21 p3449 N84-31886
Proceedings of the 8th Annual Climate Diagnostics Workshop
[PB84-192418] 21 p3450 N84-31893
An ocean climate research strategy
[PB84-194828] 21 p3452 N84-31902
The climatic impact of volcanic activity 22 p3624 N84-32963
Studies in climate
[PB84-196385] 22 p3626 N84-32977
Local climatological investigation of wind fields in the lower Monongahela Valley of Allegheny County, Pennsylvania 23 p3799 N84-34088
Atmospheric Science Workshop on the Meteorology of the Antarctic Region at INPE
[INPE-3202-RPE/460] 23 p3800 N84-34093
The International Satellite Cloud Climatology Project (ISCCP) preliminary implementation plan, revision 1
[WCP-35-REV-1] 23 p3801 N84-34098
Rainfall patterns in the desert
[WCP-75] 23 p3801 N84-34099
Report of the Meeting of Experts on Sea Ice and Climate Modelling
[WCP-77] 23 p3801 N84-34101
Report of the Second Session of the JSC/CCCO WOCE Scientific Steering Group
[WCP-81] 23 p3801 N84-34102
Report of the second session of the International Working Group on Data Management for the International Satellite Cloud Climatology Project (ISCCP)
[WCP-52] 23 p3801 N84-34103
Introduction to the International Satellite Cloud Climatology Project (ISCCP) 24 p3822 N84-34822
NASA climate data catalog
[NASA-TM-86085] 24 p3823 N84-34827
Search for solar signals in GOES imagery and cloud climatology analysis 24 p3931 N84-34881
Report of the Planning Meeting on International Satellite Cloud Climatology Project (ISCCP)
[WCP-2C] 24 p3933 N84-34898
The International Satellite Cloud Climatology Project (ISCCP) preliminary implementation plan
[WCP-20] 24 p3933 N84-34899
Cloud and ice in the planetary scale circulation and in climate
[NASA-CR-173992] 24 p3990 N84-35244

CLIMBING FLIGHT

Climb-dash real-time calculations
[NASA-CR-173184] 07 p0943 N84-16115
Energy state revisited 07 p0943 N84-16118
Lecture notes on the principles and practice of airplane performance prediction. Part 2: Point-performance in steady symmetric and unsymmetric flight
[VTH-LR-385-VOL-2] 10 p1429 N84-19346
Post-test data report for the space shuttle full-scale AFRSI sequence of environments test (OS-305-1 to -5) in the NASA/Ames Research Center 11x11-foot wind tunnel
[NASA-CR-167684] 13 p1938 N84-22603

CLINICAL MEDICINE

Military Medical Journal, no. 7, 1983
[L-2456] 08 p1198 N84-17811
Military Medical Journal, no. 4, 1983
[L-2403] 08 p1202 N84-17836

System for the management of trauma and emergency surgery in space
[NASA-CR-175439] 11 p1693 N84-21045
Military Medical Journal, no. 5, May 1983
[L-2404] 11 p1693 N84-21047
Military Medical Journal, no. 11, November 1983
[L-2539] 11 p1694 N84-21050
Method of determining intensity of elimination of microorganisms from human upper respiratory tract 15 p2377 N84-25264
Clinical-immunological spectrum of Leishmaniases 17 p2741 N84-27404
Process of making medical clip
[NASA-CASE-LAR-12650-2] 18 p2899 N84-28389
Guidelines for health surveillance in the NASA (National Aeronautics and Space Administration) workplace
[NASA-CR-173677] 18 p2899 N84-28390
Quaternary naltrexone reverses radiogenic and morphine-induced locomotor hyperactivity
[AD-P003252] 18 p2905 N84-29419
Psychological evaluation of aircrew members
[AD-P003286] 18 p2908 N84-29440
Comet studies, medical research on 'Salyut-7' 19 p2971 N84-28832
Experimental and clinical research on the effectiveness of ultrasound in vascular surgery
[ISSN-0208-5658] 19 p3064 N84-29442
Symbolic knowledge processing for the acquisition of expert behavior: A study in medicine
[AD-A141835] 19 p3068 N84-29460
USSR report: Life sciences. Effects of nonionizing electromagnetic radiation
[JPRS-UNE-84-001] 21 p3452 N84-31903
Medical applications of lasers 21 p3452 N84-31904
Age-related responses to de- and hyperhydration 21 p3452 N84-31905
Effects of climate on kininogen levels in healthy human subjects 21 p3452 N84-31907
Modeling of lethal electric shock 22 p3629 N84-33000
Handling of hydrazine in the Royal Danish Air Force 22 p3631 N84-33014
Military Medical Journal, no. 4, 1984
[L-2718] 23 p3806 N84-34134
Scientific research abstracts in Republic of China, 1983 24 p3955 N84-35038

CLIPS
Medical clip
[NASA-CASE-LAR-12650-1] 18 p2899 N84-28388
Process of making medical clip
[NASA-CASE-LAR-12650-2] 18 p2899 N84-28389

CLOCKS
NT ATOMIC CLOCKS
NT CHRONOMETERS
A clocking discipline for two-phase digital integrated circuits 05 p0677 N84-14455
Distributed elections in an Archimedean ring of processors (preliminary version)
[MC-IW-243/83] 13 p2035 N84-23202
Time interval errors of a Flicker-noise generator 16 p2480 N84-25902
The system of time service for ocean bottom seismic observations 19 p3060 N84-29414
Validation of a fault-tolerant clock synchronization system
[NASA-TP-2346] 23 p3816 N84-34198

CLOGGING
U PLUGGING

CLOSED BASINS
U STRUCTURAL BASINS

CLOSED CYCLES
Closed energy cycle with MRD generator using T-layer effect
[AD-A131136] 02 p0242 N84-11583
Gifford-McMahon refrigerator with split cold head 06 p0820 N84-15346
Suitability of commercially available laboratory cryogenic refrigerators to support shipboard electro-optical systems in the 10 - 77 Kelvin region 06 p0821 N84-15355

CLOSED ECOLOGICAL SYSTEMS
Physiological and ecological characteristics of the water fern, azolla pinnata, and prospects of using it in biological life-support system for man 02 p0261 N84-11709
Birth of space plant growing
[NASA-TM-77244] 07 p1042 N84-16756
Inorganic analysis in a controlled ecological life support system
[NASA-CR-173299] 08 p1204 N84-17852
Identification of a volatile phytotoxin from algae 09 p1358 N84-18876
The complementary roles of existing and advanced environmental, thermal control and life support technology for space stations 10 p1443 N84-19429
Biological life support system — for space stations 10 p1444 N84-19430

CLOSED FAULTS
U GEOLOGICAL FAULTS

CLOSED LOOP SYSTEMS
U FEEDBACK CONTROL

CLOSURE LAW
Introduction to turbulent shear flows 06 p0837 N84-15449
Numerical study of a separating and reattaching flow by using Reynolds-stress tubulence closure
[NASA-CR-166547] 08 p1097 N84-17133
Radiative heat transfer, Favre-averaging and turbulence closure models for combustion applications
[VTH-LR-393] 10 p1496 N84-19780
Simulations of the stratocumulus-topped boundary layer with a third-order closure model 12 p1857 N84-22098
On the closure of spaces of sums of ridge functions and the range of the X-ray transform 22 p3635 N84-33035

CLOSURES
Solving uninterpreted equations with context free expression grammars
[AD-A133613] 07 p1085 N84-17055
Development of a complete model of turbulence revisited
[AD-A136145] 12 p1816 N84-21836

CLOTH
U FABRICS

CLOTHING
NT BOOTS (FOOTWEAR)
NT COTTON FIBERS
NT FLIGHT CLOTHING
NT GLOVES
NT GOGGLES
NT HELMETS
NT PRESSURE SUITS
NT PROTECTIVE CLOTHING
NT SHOES
NT SPACE SUITS
NT SUITS
Effectiveness of two portable liquid-cooled undergarments in reducing heat stress
[AD-A133174] 06 p0893 N84-15801
The military aircrew work environment
[FOA-A-59005-H1-H2] 18 p2915 N84-28490

CLOTTING
Formation and remodeling of the early wound matrix
[AD-A134576] 08 p1201 N84-17833

CLOUD COVER
A study of cirriform clouds over eleven USSR stations
[AD-A130085] 01 p0107 N84-10693
Review of potential satellite techniques for mesoscale mapping of insolation
[DE83-011998] 03 p0401 N84-12622
Model for illuminance on horizontal and vertical surfaces
[DE83-011973] 03 p0475 N84-13127
Graphical method for determining interflected daylight in clear climates
[DE83-011989] 03 p0475 N84-13128
Rise in the frequency of cloud cover in LANDSAT data for the period 1973 to 1981 — Brazil
[E84-10047] 04 p0553 N84-13640
An analysis of cloud cover at Johannesburg, Cape Town and Durban, in South Africa
[CSIR-NBRI-SR-BOU-60] 04 p0566 N84-13734
Time lapse simulation of interrelated weather conditions
[AD-A133999] 05 p0708 N84-14639
Local effects of partly-cloudy skies on solar and emitted radiations
[NASA-CR-173189] 07 p1035 N84-16711
Sub-cloud layer kinematics and convective rainfall in central Illinois
[AD-A134483] 07 p1039 N84-16741
Cloud forecast fields comparison test
[AD-A135556] 08 p1191 N84-17761
Verification of the radiation budget in numerical models 10 p1535 N84-20059
Radiation and clouds, the International Satellite Cloud Climatology Project (ISCCP) 10 p1535 N84-20060
The NEPHOS program: Preliminary results 10 p1536 N84-20061
On the derivation of cloud structure parameters from aircraft measurements 10 p1536 N84-20062
Variation of arctic cloud cover in summer: Results through February 1983
[DE84-005096] 11 p1688 N84-21010
Determination of sea surface temperatures from high resolution infrared satellite measurements
[REPT-115] 12 p1837 N84-21975
Comparison of GLAS retrieved cloud fields with model generated rainfall fields 12 p1851 N84-22061
On the bimodality of temperature and moisture near stratocumulus cloud tops 12 p1858 N84-22101
The Amazon and climate
[NASA-CR-173408] 12 p1860 N84-22115
Panoramic sky monitor (PANSKY)
[AD-A139440] 14 p2176 N84-24035
Environmental satellite imagery, October 1983
[PB84-160001] 14 p2181 N84-24068
Quasibiennial cycle of thermodynamic atmosphere-ocean interaction in North Atlantic 17 p2700 N84-27198
Cloud cover typing from environmental satellite imagery. Discriminating cloud structure with Fast Fourier Transforms (FFT)
[NASA-CR-173727] 18 p2883 N84-28298
Variation of Arctic cloud cover during summer 1979, part 1
[DE84-008996] 19 p3057 N84-29395
A statistical-dynamical model for forecasting cold air stratocumulus over the yellow sea
[AD-A141540] 19 p3058 N84-29403
Stability criterion for moist compressible atmosphere and energy conditions for development of convective cloud cover: Numerical experiment 20 p3224 N84-30489
Effect of antiscreening of outgoing thermal radiation by cloud cover 20 p3224 N84-30490
Accuracy of one approximate method for computing radiative fluxes in presence of broken clouds 20 p3225 N84-30491
Dynamical simulation of cloudy boundary layer flow during cold air outbreaks 22 p3624 N84-32984
Some considerations of the operations of optical imaging space sensors derived from the experience of the metric camera project 23 p3764 N84-33860
The International Satellite Cloud Climatology Project (ISCCP) preliminary implementation plan, revision 1
[WCP-35-REV-1] 23 p3801 N84-34098
An evaluation of the SPADS automated cloud analysis program
[AD-A143987] 23 p3802 N84-34106

CLOUD GLACIATION
Ice formation in aircraft 06 p0783 N84-15130

CLOUD HEIGHT INDICATORS
A study of cirriform clouds over eleven USSR stations
[AD-A130085] 01 p0107 N84-10693
Evaluation of automated imagery analysis algorithms for use in the three-dimensional nephanalysis model at AFGWC (Air Force Global Weather Central)
[AD-A131986] 03 p0410 N84-12686
Meteorological Satellite Center Technical Note, no. 8, 1983
[ISSN-0388-9853] 09 p1346 N84-18796
Comparison of the cloud top heights evaluated from GMS infrared image with the heights reported by air-line pilots, part 2 09 p1346 N84-18797
An evaluation of the SPADS automated cloud analysis program
[AD-A143987] 23 p3802 N84-34106
Lightning Observations above and below clouds 24 p3927 N84-34856

CLOUD PHOTOGRAPHY
Sampling problems and cloud statistics 10 p1534 N84-20048
GMS observations of Typhoon 8305(Abby) and heavy rainfall of eastern Japan
[ISSN-0388-9653] 16 p2528 N84-26230

CLOUD PHYSICS
Diagnosis of the comma cloud of 10 April 1979, abridged report
[AD-A130649] 01 p0108 N84-10701
Cloud physics and nucleation theory: Revisions indicated by new measurements of the electrical conductivity of evaporation-humidified air
[AD-A130696] 01 p0108 N84-10703
Research facilities report, fiscal year 1982
[PB83-224857] 01 p0110 N84-10713
A numerical study of the structure and vertical transport properties of a tropical convective system 02 p0252 N84-11651
Field and laboratory studies of ice nucleation in winter orographic clouds 03 p0409 N84-12678
Radar meteorology in cloud physics and radio wave propagation research
[ESA-TT-808] 03 p0412 N84-12695
Development of theoretical models and analyses of the micro-physics of cloud and precipitation systems
[AD-A133557] 06 p0882 N84-15735
Radiative-dynamic properties of Arctic stratus clouds and their possible modification by aerosol particles
[DFVLR-FB-83-23] 06 p0882 N84-15740
Investigation of the arc cloud complex 06 p0928 N84-16029
Light scattering condensation nuclei, and air mass trajectories at Whiteface Mountain: Summer 1982
[PB84-104363] 08 p1188 N84-17742
Status for knowledge: Meteorological affected icing on aircraft in clouds
[DFVLR-MITT-83-12] 08 p1191 N84-17763

Cloud physics investigations by the University of Wyoming in HIPLEX 1977-1982
[PB84-106756] 08 p1192 N84-17770
Preliminary study for the modeling of an artificial icing cloud
[AD-A135717] 09 p1349 N84-18813
Radiation and clouds, the International Satellite Cloud Climatology Project (ISCCP) 10 p1535 N84-20060
Continuing design, review and analysis work for the Sierra Cooperative Pilot Project
[PB84-143627] 11 p1688 N84-21012
Can cloud-top entrainment promote cloud growth? 12 p1857 N84-22100
Simultaneous observation of snowfall intensity and visibility in winter at Sapporo 15 p2354 N84-25125
The orientation distribution on nonspherical aerosol particles within a cloud
[AD-A140470] 16 p2526 N84-26216
Density, specific humidity and water vapor elasticity above condensation level 17 p2697 N84-27183
A numerical study of the coastal stratus cloud in a two-dimensional meso-scale model 17 p2733 N84-27371
Proceedings of a Workshop on Research Needs in Heterogeneous Tropospheric Chemistry
[NASA-CP-2320] 18 p2855 N84-28131
Seminar on Radar Meteorology — conferences
[WMO-626] 18 p2886 N84-28314
The vertical profile of reflectivity as an indicator of the active regions in PEP experiment — Precipitation Enhancement Project (PEP) 18 p2887 N84-28320
Dynamics of radar cloud characteristics 18 p2887 N84-28325
Topics in cloud physics relevant to radar meteorology 18 p2887 N84-28326
Theoretical and measured airflow about the Twin Otter wing
[AD-A141974] 20 p3126 N84-29855
Analysis of some cloud and frontal events recorded during the Boulder Upslope Cloud Observation Experiment (BUCOE) of 1982
[PB84-179662] 20 p3249 N84-30622
AFGL cloud modeling program: Annex
[AD-A143084] 21 p3447 N84-31872
The International Satellite Cloud Climatology Project (ISCCP) preliminary implementation plan, revision 1
[WCP-35-REV-1] 23 p3801 N84-34098
Nighttime observations of thunderstorm electrical activity from a high altitude airplane 24 p3926 N84-34853
Lightning Observations above and below clouds 24 p3927 N84-34856
Investigation of arc cloud lines 24 p3931 N84-34885
Satellite Precipitation and Cloud Experiment (SPACE) 24 p3931 N84-34887
Cloud bands structure of Hurricane David, 1979: A case study
[AD-A144529] 24 p3934 N84-34904
Cloud and ice in the planetary scale circulation and in climate
[NASA-CR-173992] 24 p3990 N84-35244

CLOUD SEEDING

Cloud physics investigations by the University of Wyoming in HIPLEX 1977-1982
[PB84-106756] 08 p1192 N84-17770
SCPP (Sierra Cooperative Pilot Project) forecasting support, volume 1
[PB84-107911] 08 p1194 N84-17782
Continuing design, review and analysis work for the Sierra Cooperative Pilot Project
[PB84-143627] 11 p1688 N84-21012
Project Skywater data inventory, 1962-1983 SCPP (Sierra Cooperative Pilot Project) data inventory
[PB84-151489] 14 p2180 N84-24058
On the statistical analysis of cloud seeding experiments 17 p2733 N84-27370
Cloud physics studies in SCPP (Sierra Cooperative Pilot Project) during 1982-1983
[PB84-176452] 17 p2735 N84-27384
The vertical profile of reflectivity as an indicator of the active regions in PEP experiment — Precipitation Enhancement Project (PEP) 18 p2887 N84-28320
Cloud seeding with TG-10 rockets — hail suppression 18 p2888 N84-28329
Modification of the surface temperature by an artificial cirrus cloud
[DE84-011387] 20 p3247 N84-30611

CLOUDS

NT ANVIL CLOUDS
NT ARTIFICIAL CLOUDS
NT BARIUM ION CLOUDS
NT CAP CLOUDS
NT CHEMICAL CLOUDS
NT CIRRUS CLOUDS
NT CLOUDS (METEOROLOGY)
NT CONVECTION CLOUDS
NT CUMULONIMBUS CLOUDS
NT CUMULUS CLOUDS
NT MAGELLANIC CLOUDS
NT MOLECULAR CLOUDS
NT PLASMA CLOUDS
NT STRATOCUMULUS CLOUDS
NT STRATUS CLOUDS
NT VENUS CLOUDS

Solar radiative impacts of graphitic carbon (soot) in aerosols, clouds and snow 02 p0243 N84-11592
A numerical study of the structure and vertical transport properties of a tropical convective system 02 p0252 N84-11651
Microwave studies of hot intracluster gas 02 p0306 N84-12011
Evaluation of automated imagery analysis algorithms for use in the three-dimensional nephanalysis model at AFGWC (Air Force Global Weather Central)
[AD-A131986] 03 p0410 N84-12686
Development of a technique for short-term prediction of hydrometeors using advection and physical forcing
[AD-A132259] 04 p0567 N84-13740
Space shuttle exhaust cloud properties
[NASA-TP-2258] 05 p0702 N84-14806
Electro-optical transmission and liquid water content of fogs and clouds
[AD-A134307] 07 p1039 N84-16738
Attenuation of millimeter waves on Earth-space paths by rain clouds
[PB84-115120] 08 p1148 N84-17471
Estimation of parameters of spray clouds
[BLL-TRANS-1571-(9022.552)] 08 p1190 N84-17752
Preliminary study for the modeling of an artificial icing cloud
[AD-A135717] 09 p1349 N84-18813
Airborne penetration of radioactive clouds
[AD-A135848] 09 p1361 N84-18894
Variation of arctic cloud cover in summer: Results through February 1983
[DE84-005098] 11 p1688 N84-21010
Vertical structure and convective dynamics of the equatorial region on Jupiter 11 p1758 N84-21473
Heat transfer effects during cold dense gas dispersion
[PB84-162999] 14 p2177 N84-24043
Studies on light scattering and absorption properties of ice clouds for visible and infrared laser wavelengths
[AD-A140528] 16 p2557 N84-26405
Evolution of interstellar grains 16 p2569 N84-26486
Voyager 1 imaging and IRIS observations of Jovian methane absorption and thermal emission: Implications for cloud structure
[NASA-CR-173567] 16 p2579 N84-26544
Radiative heat exchange in atmosphere disturbed by volcanic eruption 17 p2698 N84-27184
Altimeter height measurement errors introduced by the presence of variable cloud and rain attenuation 17 p2716 N84-27289
A physical and chemical study of Titan: Atmosphere, clouds, and hazes 17 p2776 N84-27628
Variation of Arctic cloud cover during summer 1979, part 1
[DE84-008996] 19 p3057 N84-29395
Electro-optical transmission and liquid water content of fogs and clouds
[AD-A142294] 20 p3245 N84-30597
Effect of polydispersity on the cloud point curves of polymer mixtures
[AD-A143159] 21 p3370 N84-31384
Humidity/cloud-radiation feedback on possible climatic perturbation due to fossil fuel utilization
[DE84-011895] 21 p3448 N84-31874
Photoionization models of the MgII and CIV selected clouds observed in absorption in QSO spectra 22 p3678 N84-33314
An automated technique for determining cloud velocity from GMS data. 1: The design and construction of a scanning converter 24 p3956 N84-35049

CLOUDS (METEOROLOGY)

NT ANVIL CLOUDS
NT ARTIFICIAL CLOUDS
NT BARIUM ION CLOUDS
NT CAP CLOUDS
NT CHEMICAL CLOUDS
NT CIRRUS CLOUDS
NT CONVECTION CLOUDS
NT CUMULONIMBUS CLOUDS
NT CUMULUS CLOUDS
NT STRATOCUMULUS CLOUDS
NT STRATUS CLOUDS

Diagnosis of the comma cloud of 10 April 1979, abridged report
[AD-A130649] 01 p0108 N84-10701
Precipitation development in midlatitude cyclones: A study of cloud structures and processes 04 p0566 N84-13728
A numerical study of cloud and precipitation processes in mesoscale rainbands 04 p0566 N84-13729
A diagnostic case study of the effects of deep extratropical convection on the large-scale temperature and moisture structure 05 p0875 N84-15695
Evaluation of 2 1-D cloud models for the analysis of VAS soundings
[NASA-CR-3771] 06 p0881 N84-15729
Design and verification of a cloud field optical simulator
[NASA-CR-173274] 07 p1035 N84-16717
A new data base of supercooled cloud variables for altitudes up to 10,000 ft. AGL and the implications for low altitude aircraft icing
[DOT/FAA/CT-83/21] 07 p1036 N84-16718
Light scattering condensation nuclei, and air mass trajectories at Whiteface Mountain: Summer 1982
[PB84-104363] 08 p1188 N84-17742
A laboratory investigation of the reflective properties of simulated, optically thick clouds
[NASA-CR-175362] 08 p1190 N84-17755
Cloud forecast fields comparison test
[AD-A135556] 08 p1191 N84-17761
Enhancement of SEASAT wind-stress measurements using data from GOES
[PB84-111244] 08 p1192 N84-17773
A history of the satellite wind estimation at MSC and the present accuracy of satellite winds 09 p1347 N84-18803
Radiation and clouds, the International Satellite Cloud Climatology Project (ISCCP) 10 p1535 N84-20060
Analysis and classification of mesoscale cloud and precipitation systems
[PB84-138999] 10 p1542 N84-20104
Analysis and classification of mesoscale cloud and precipitation systems 10 p1542 N84-20107
A laboratory investigation of the reflective properties of simulated, optically thick clouds
[NASA-CR-175158] 10 p1578 N84-20336
Designing and constructing the Cloud Field Optical Simulator (CFOS) 10 p1578 N84-20337
The Cloud Field Simulation Project 10 p1578 N84-20338
Design and verification of a cloud field optical simulator 10 p1578 N84-20339
Melting layer survey
[AD-A137911] 11 p1687 N84-21003
Can cloud-top entrainment promote cloud growth? 12 p1857 N84-22100
A dynamical basis for the parameterization of organized deep convection in large-scale numerical models 12 p1859 N84-22111
Study of aerospace materials, coatings, adhesions and processes. Aircraft icing processes
[AD-A139743] 15 p2257 N84-24557
Turbulent pulsations of horizontal and vertical wind velocity components in clouds of different genera 17 p2697 N84-27182
Influence of tropospheric aerosol on integral albedo of cloudy atmosphere. Underlying surface system 17 p2707 N84-27236
Diurnal and annual variation of climatic elements in Finland
[T-551.583.13(480)] 18 p2883 N84-28294
Higher-order turbulence models including a cloud layer, appendix F 18 p2884 N84-28301
Note on the interaction of the cloud layer and ABL, appendix H 18 p2884 N84-28303
The cloudy marine boundary layer in the meteorological office climate model, appendix I 18 p2885 N84-28304
The demand side flux determination, appendix P 18 p2886 N84-28311
The International Satellite Cloud Climatology Project (ISCCP): Cloud analysis algorithm intercomparison
[WCP-73] 18 p2886 N84-28313
The use of satellite observed cloud patterns in Northern Hemisphere 300 mb and 1000/300 mb numerical analysis
[AD-A141215] 18 p2889 N84-28340
Joint probability of selected cloud and visibility thresholds around Frankfurt, Germany
[AD-A141342] 18 p2891 N84-28348
Lagrangian time scales connected with clouds and precipitation
[CM-65] 18 p2891 N84-28350
Cloud recognition from bispectral histograms
[MITT-38] 18 p2891 N84-28352
Comparison of icing cloud instruments for 1982-1983 icing season flight program
[NASA-TM-83569] 20 p3129 N84-29870

Analysis of some cloud and frontal events recorded during the Boulder Upslope Cloud Observation Experiment (BUCOE) of 1982
[PB84-179662] 20 p3249 N84-30622
Model cloud relationships
[AD-A142890] 21 p3447 N84-31871
AFGL cloud modeling program: Annex
[AD-A143084] 21 p3447 N84-31872
Turbulent diffusion, dissipation, and winds from calibrated photographs of artificial clouds
[AD-A143231] 22 p3623 N84-32956
Stereo methods in satellite meteorology
23 p3776 N84-33936
Tropical cyclone intensity analysis using satellite data
[NOAA-TR-NESDIS-11] 23 p3800 N84-34096
Report of the second session of the International Working Group on Data Management for the International Satellite Cloud Climatology Project (ISCCP)
[WCP-52] 23 p3801 N84-34103
An evaluation of the SPADS automated cloud analysis program
[AD-A143987] 23 p3802 N84-34106
A new procedure of objective target cloud selection for the GMS cloud wind estimation system and the accuracy of the resultant wind vectors 24 p3921 N84-34819
Introduction to the International Satellite Cloud Climatology Project (ISCCP) 24 p3922 N84-34822
GASP cloud- and particle-encounter statistics and their application to LPC aircraft studies. Volume 1: Analysis and conclusions
[NASA-TM-85835] 24 p3923 N84-34828
NASA/MSFC FY-84 Atmospheric Processes Research Review
[NASA-CP-2329] 24 p3923 N84-34829
Determination of rainfall and condensational heating in the South Pacific convergence zone during FGGE SOP-1 24 p3925 N84-34843
Observational and theoretical studies of the evolving structure of baroclinic waves 24 p3925 N84-34845
Utilization of satellite cloud information to diagnose the energy state and transformations in extratropical cyclones 24 p3925 N84-34846
Application of satellite data to tropic/subtropic moisture coupling 24 p3926 N84-34849
Dynamics and energetics of the South Pacific convergence zone during FGGE SOP-1
24 p3926 N84-34850
Severe storm electricity 24 p3926 N84-34851
Cloud scale influences on mesoscale precipitation patterns 24 p3930 N84-34879
Search for solar signals in GOES imagery and cloud climatology analysis 24 p3931 N84-34881
Report of the Planning Meeting on International Satellite Cloud Climatology Project (ISCCP)
[WCP-28] 24 p3933 N84-34896
The International Satellite Cloud Climatology Project (ISCCP) preliminary implementation plan
[WCP-20] 24 p3933 N84-34899
Handbook of geophysics and space environments. Chapter 16: Water vapor, precipitation, clouds and fog, revised
[AD-A144176] 24 p3934 N84-34901
Meteorological and climatological conditions affecting the vertical structure of visibility in northern Germany
[AD-A144352] 24 p3934 N84-34902
Cloud bands structure of Hurricane David, 1979: A case study
[AD-A144529] 24 p3934 N84-34904

CLUMPS
Intercomparison of stable-element content of foods by statistical methods
[DE83-014029] 01 p0118 N84-10764
Clustering of the least squares lattice PARCOR (partial correlation) coefficients: A pattern-recognition approach to steady state synthetic vowell identification
[AD-A131503] 01 p0134 N84-10876
Impact of clumps on plasma stability and the nature of turbulence in a saturated state
[DE83-012927] 01 p0149 N84-10980
Dynamical evolution of substructure in molecular clouds 03 p0462 N84-13043
Calculation of structure factor for different cluster models of an amorphous alloy
[BLL-M-35293-(5828.4)] 06 p0803 N84-15234
A cluster analysis of visual and near-infrared light curves of long period variable stars 09 p1409 N84-19210
Cluster analysis of rare earths in stellar spectra
09 p1410 N84-19222
A set function approach to cluster analysis
09 p1412 N84-19237
Some aspects in pattern recognition
09 p1412 N84-19238
Theoretical studies of metal clusters and of chemisorption on metals
[AD-A138175] 12 p1791 N84-21683
On systems with spectral cluster points and their relation to H sup p spaces
[RR-235] 13 p2038 N84-23222
A constrained-clustering approach to the analysis of remote sensing data
[AD-A139124] 14 p2169 N84-23993
Supersonic molecular jet studies of Toluene-Helium and Toluene-Methane clusters
[AD-A141379] 19 p2988 N84-28931
Supersonic metal cluster beams
[DE84-012976] 22 p3556 N84-32516
The influence of containerless undercooling and rapid solid-state quenching on the superconductive and magnetic properties of some clustering alloy systems
[NASA-CR-171144] 23 p3718 N84-33566
Multiresolution spatially constrained clustering of remotely sensed data on the massively parallel processor 23 p3779 N84-33962

CLUSTER ANALYSIS
On surface circulation of the eastern north Pacific
02 p0257 N84-11682
A cluster model for two-dimensional disordered systems
[INPE-2895-PRE/414] 02 p0298 N84-11953
Introduction: Advances and opportunities in cluster research
[DE84-000364] 04 p0584 N84-13917
Study of phase diagrams of ternary semiconductors
[AD-A133556] 06 p0923 N84-16000
A model for ordinal filtering of digital images
[AD-A134705] 08 p1232 N84-18052
Applications of cluster analysis to satellite soundings
12 p1852 N84-22065
Cluster analysis package for image segmentation
[AD-P003117] 16 p2532 N84-26258
A calculation of the pressure dependent energy bands of cooper chloride
[INPE-3094-PRE/498] 16 p2559 N84-26419
Cluster calculation of electronic structure of the diamond (111) surface using the XAlpha-scattered wave method
[AD-A140486] 16 p2560 N84-26426
Preliminary comparisons of the information content and utility of TM versus MSS data 20 p3215 N84-30423

CLUSTERS
U CLUMPS

CLUTCHES
Directional gear ratio transmissions
[NASA-CASE-LAR-12644-1] 18 p2848 N84-28084
Electronic 4-wheel drive control device
[NASA-TM-77618] 24 p3910 N84-34764

CLUTTER
A computer program for the prediction of search radar performance
[AD-A131080] 01 p0067 N84-10436
Technique for producing a coherent sum of the data from P78-1, F2, and F4 satellites
[AD-A131965] 03 p0340 N84-12210
Effect of frequency-averaging on estimation of clutter statistics used in setting CFAR detection thresholds
[AD-A131947] 03 p0360 N84-12343
The maximum entropy method and its application to clutter cancellation 06 p0907 N84-15890
Accuracy estimate for radar cross section measurements of targets modelled by multiple independent scatterers in constant clutter
[AD-A136075] 12 p1806 N84-21775
Clutter cancellation techniques for use in a space-based radar system
[AD-A138467] 12 p1808 N84-21784
Interpretation of radar returns from clear air: Discrimination against clutter 17 p2685 N84-27096
Discrimination against interfering signals at the Poker Flat MST radar 17 p2685 N84-27097
Pulse stuttering as a remedy for aliased ground backscatter 17 p2685 N84-27098
Parmeterization of spectra 17 p2696 N84-27170
Analysis of interactive image cleansing via RASTER-processing techniques
[AD-A141772] 19 p3078 N84-29527

CMOS
Radiation testing of the CMOS 8085 microprocessor family
[DE83-014804] 02 p0271 N84-11771
ESD evaluation of radiation-hardened, high-reliability CMOS and MNOS ICs
[DE84-000138] 04 p0529 N84-13481
Pulse width modulated DC link converter development
[AD-A134486] 07 p0997 N84-16467
Effects of space radiation on advanced semiconductor devices. Part 2: Cosmic ray simulation experiments for the study of single event upsets in CMOS technology
[G-2745-VOL-2] 08 p1153 N84-17506
Theoretical-experimental analysis of the effects of grain boundaries on the electrical properties of SOI (Silicon-On-Insulator) MOSFETS
[AD-A136975] 10 p1486 N84-19718
Development of a process for manufacturing high voltage CMOS circuits and of a technology for gold bump plating for use in integrated display systems
[BMFT-FB-T-83-280] 10 p1488 N84-19732
Integrated filters in MOS technology — CMOS
[BMFT-FB-T-83-194] 10 p1590 N84-20419
Product assurance technology for procuring reliable, custom LSI/VLSI electronics
[NASA-CR-173405] 12 p1812 N84-21810
The design and layout of a complementary metal oxide semiconductor silicon on sapphire cell library
[AD-A138310] 12 p1914 N84-22470
High speed, low power MOS technologies
[BMFT-FB-T-83-289] 12 p1916 N84-22484
Testability of VLSI (Very Large Scale Integration) leakage faults in CMOS (Complementary Metal Oxide Semiconductor)
[AD-A136978] 13 p2047 N84-23281
Micropower CMOS implementation of three-valued logic functions
[AD-P002333] 14 p2190 N84-24124
Low power 2-of-3-valued CMOS self-checking circuits
[AD-P002334] 14 p2190 N84-24125
A quaternary logic encoder-decoder circuit design using CMOS
[AD-P002351] 14 p2192 N84-24142
Compression and Decompression of Imaging Sensor Signals (CADISS): An image (de)compression system for deep space application
[NLR-MP-83028-U] 15 p2390 N84-25339
A MIL-STD-1750A computer employing the MDAC (McDonnell Douglas Astronautics Corporation) CMOS-SOS chipset
[AD-P003550] 21 p3334 N84-31154
A new silicon-on-sapphire MIL-STD-1750A microprocessor
[AD-P003551] 21 p3334 N84-31155
Programmable arithmetic logic unit
[AD-D011128] 22 p3637 N84-33055
Soviet integrated circuits in use in GDR
23 p3728 N84-33630
New markets for integrated circuits firms in UK, France and West Germany 24 p3891 N84-34636

CN EMISSION
Physiological function of combustion gas and especially that of CN 04 p0514 N84-13376

COAGULATION
NT BLOOD COAGULATION
Optimizing coagulation-adsorption for haloform and TOC (Total Organic Carbon) reduction
[PB83-210757] 01 p0058 N84-10378
Ionic mechanisms of carbon formation in flames
[AD-A137079] 10 p1455 N84-19505

COAL
NT SOLVENT REFINED COAL
Estimation of uncertainty in coal resources
[DE83-902538] 03 p0401 N84-12620
Alaska's mineral resources
[DE83-016599] 03 p0401 N84-12623
Selective catalytic hydrogenation of polynuclear heteroaromatic nitrogen compounds with polymer-supported transition-metal compounds
[DE84-001326] 04 p0495 N84-13248
Supercritical multicomponent solvent coal extraction
[NASA-CASE-NPO-15767-1] 07 p0965 N84-16255
Resource and potential reclamation evaluation: Northeast Montana investigations
[PB84-112408] 09 p1338 N84-18735
Microbial deterioration of hydrocarbon fuels from oil shale, coal and petroleum. III: Inhibition of fungi by fuels from coal
[AD-A137177] 10 p1469 N84-19596
Three-color pyrometer for burning particle temperature measurement 13 p1943 N84-22635
Supercritical solvent coal extraction
[NASA-CASE-NPO-15210-1] 13 p1955 N84-22709
Alaska's mineral resources
[DE84-006918] 14 p2170 N84-23998
Performance criteria guideline for three explosion protection methods of electrical equipment rated up to 15,000 volts AC
[NASA-TM-85528] 17 p2640 N84-26887
Study of the kinetics of hydrogenation using aged catalysis
[DE84-006588] 21 p3362 N84-31330
Performance and test criteria for dc fuses, phase 1
[PB84-202662] 21 p3395 N84-31548
Petrography and depositional environment of the Herrin (no. 6) seam in central, eastern and northwestern Illinois
21 p3438 N84-31813
Development of accelerated fuel-engine qualification procedures
[AD-A143845] 23 p3693 N84-33406
Longwall shearer tracking system
[NASA-CASE-MFS-25717-1] 23 p3749 N84-33768

Mapping project on land use changes in the carboniferous region of Santa Catarina
[NASA-CR-173946] 23 p3763 N84-33853
Cogeneration Technology Alternatives Study (CTAS). Volume 2: Comparison and evaluation of results
[NASA-TM-81401] 23 p3790 N84-34038

COAL DERIVED GASES
Experimental investigation concerning the feasibility of electrostatic precipitators at high pressures and temperatures — gas cleaning systems for coal conversion
[BMFT-FB-T-83-201] 08 p1183 N84-17704

COAL DERIVED LIQUIDS
Preparation of a design study for the construction of a 2 million tons/annum commercial scale hydrogenation plant
[BMFT-FB-T-83-135] 03 p0405 N84-12652
Calibration of laboratory bioassays with results from microcosms and ponds
[DE83-017224] 04 p0560 N84-13692
Hydrotreating of coal derived liquids
[BMFT-FB-T-83-175] 07 p0973 N84-16304
Developments in open tubular liquid chromatography
[DE84-010585] 18 p2812 N84-27853

COAL GASIFICATION
Characterization of Kel-F-graphite composite (Kelgraf) electrodes and application to detection in flowing streams
[PB83-224204] 01 p0039 N84-10247
Methanol production from natural gas or coal
[DE83-901909] 01 p0053 N84-10340
Preparation of a design study for the construction of a 2 million tons/annum commercial scale hydrogenation plant
[BMFT-FB-T-83-135] 03 p0405 N84-12652
Reverse combustion along constant geometry fissures in heterogeneous fuels 04 p0492 N84-13232
Pressure letdown method and device for coal conversion systems
[NASA-CASE-NPO-15100-1] 05 p0698 N84-14583
Micronized coal burner facility
[NASA-CASE-LEW-13426-1] 07 p0969 N84-16276
Guidelines for evaluation of commercial fossil fuels gasification concepts
[PB84-132570] 09 p1291 N84-18429
USSR report: Chemistry
[JPRS-UCH-84-007] 24 p3867 N84-34508

COAL LIQUEFACTION
Combustion of EDS mid-distillate and refined shale-oil residual fuel in a gas turbine with large single-combustion chamber
[DE83-017700] 03 p0351 N84-12281
Selective catalytic hydrogenation of polynuclear heteroaromatic nitrogen compounds with polymer-supported transition-metal compounds
[DE84-001326] 04 p0495 N84-13248
Analysis of hydrogen attack on pressure-vessel steels
[DE84-000061] 04 p0504 N84-13301
Mechanical properties of a modified 2 1/4 Cr-1 Mo steel for pressure vessel applications
[DE84-004105] 09 p1285 N84-18394
Study of ebullated bed fluid dynamics
[DE84-010230] 20 p3187 N84-30251
Cleavage of aromatic carbon-carbon bonds
[DE84-010161] 22 p3543 N84-32432
Effect of feed gas trace components on the SRC-1 hydrogen purification unit
[DE84-012975] 22 p3562 N84-32556

COAL UTILIZATION
Development of materials for open-cycle MHD
[DE83-016334] 03 p0445 N84-12926
Systems analysis of electricity production from coal using fuel cells
[NASA-CR-173157] 07 p1026 N84-16645
Energy technology characterizations handbook: Environmental pollution and control factors, third edition
[DOE/EP-0093] 16 p2511 N84-26117

COALESCENCE
U COALESCING

COALESCING
An analysis of shock coalescence including three-dimensional effects with application to sonic boom prediction 02 p0288 N84-11890
Loop coalescence in flares and coronal X-ray brightening
[DE83-013070] 04 p0621 N84-14099
Initiation, growth, and coalescence of small fatigue cracks
[AD-A133935] 05 p0692 N84-14545
An analysis of shock coalescence including three-dimensional effects with application to sonic boom extrapolation
[NASA-TP-2214] 13 p1988 N84-22906

COANDA EFFECT
Reattachment of a three-dimensional, incompressible jet to an adjacent axisymmetric inclined surface
[AD-A136288] 09 p1314 N84-18584
Investigation of a pneumatic thrust deflector based on circulation control technology
[AD-A128950] 11 p1652 N84-20784

COASTAL CURRENTS
Sizewell-Dunwich Banks field study, topic report 7: A study of nearshore sediment transport process
[IOS-146] 02 p0258 N84-11690
Application of remote sensing for studies, mapping and forecasting of eddies on the Norwegian continental shelf 03 p0399 N84-12605
Sound propagation through a moderate coastal upwelling: Comparison of modeling prediction with experimental data
[AD-A133782] 05 p0742 N84-14876
Coastal bathymetry and currents from LANDSAT data 17 p2718 N84-27303
Variations in surface current off the coasts of Canada as inferred from infrared satellite imagery 17 p2719 N84-27305
A numerical model for studying some coastal circulation
[INPE-2904-RPE/444] 17 p2737 N84-27386
South Atlantic physical oceanography study (year 5). Volume 1: Executive summary
[PB84-187855] 21 p3451 N84-31899
A first attempt to identify areas of high probability for the occurrence of surface skipjack schools (Katsuwonus pelamis), from an analysis of oceanographic data for the south-southeast region of Brazil
[INPE-2972-RPE/449] 23 p3803 N84-34112

COASTAL DUNES
U DUNES

COASTAL ECOLOGY
Atmospheric Sciences Division
[DE83-014429] 01 p0098 N84-10639
Ecological models of the Mississippi Deltaic Plain Region: Data collection and presentation
[PB83-239012] 02 p0245 N84-11604
Contribution of satellite remote sensing to knowledge of the littoral from the mouth of the Loire to that of the Gironde (France) 03 p0396 N84-12584
Application of high resolution satellite data to coastal zones: SPOT simulations during ecological survey of the Britanny coast 03 p0397 N84-12591
Proceedings of the 18th International Conference on Coastal Engineering
[ISBN-0-7988-2553-7] 08 p1194 N84-17783
Evaluation of spatial, radiometric and spectral Thematic Mapper performance for coastal studies
[E84-10118] 14 p2167 N84-23978
Evaluation of spatial, radiometric and spectral Thematic Mapper performance for coastal studies
[E84-10159] 17 p2709 N84-27251

COASTAL MARSHLANDS
U MARSHLANDS

COASTAL PLAINS
Proceedings of the Workshop on Coastal Atmospheric Transport Processes
[DE83-015489] 02 p0244 N84-11601
Evaluation of a ground transient electromagnetic remote sensing method for the deep detection and monitoring of salt water interfaces
[PB83-253351] 05 p0698 N84-14580
Evaluation of the FEMA (Federal Emergency Management Agency) model for estimating potential coastal flooding from hurricanes and its application to Lee County, Florida
[PB84-105832] 08 p1192 N84-17769

COASTAL WATER
Sizewell-Dunwich Banks field study, topic report 7: A study of nearshore sediment transport process
[IOS-146] 02 p0258 N84-11690
Contribution of satellite remote sensing to knowledge of the littoral from the mouth of the Loire to that of the Gironde (France) 03 p0396 N84-12584
Marine remote sensing activities of the Joint Research Center, Ispra, Italy 03 p0396 N84-12586
SPOT potential applications: An overview of the results of the simulation campaigns 03 p0396 N84-12587
Two different aspects of phytoplankton bloom seen by satellite (CZCS) in the western English Channel — coastal zone color scanner (CZCS) 03 p0399 N84-12604
Actual state and recent evolution of the French coast observed by remote sensing using LANDSAT recordings 03 p0399 N84-12606
Remote sensing analysis of oil pollution in Augusta Bay, Sicily 03 p0400 N84-12616
Adjustment in the oceans: The long-period tides and coastal upwelling 03 p0413 N84-12702
Sound propagation through a moderate coastal upwelling: Comparison of modeling prediction with experimental data
[AD-A133782] 05 p0742 N84-14876
The effects of wind waves on sea level at the coast
[IOS-155] 07 p1042 N84-16754
NODC (National Oceanographic Data Center) inventory of XBT data along transects in U.S. Atlantic and Gulf coastal waters from NMFS/MARD ship of opportunity program for 1981
[PB84-122662] 08 p1197 N84-17802
Swirls and plumes or application of statistical methods to satellite-derived sea surface temperatures
[AD-A135462] 10 p1528 N84-20010
Coordination: Southeast Continental Shelf studies
[DE84-004165] 11 p1692 N84-21034
Biological processes in the water column of the South Atlantic Bight
[DE84-004336] 11 p1692 N84-21035
Research in oceanography
[AD-A139690] 15 p2373 N84-25237
Coastal bathymetry and currents from LANDSAT data 17 p2718 N84-27303
Historical and projected shoreline changes: Ocean City and north Assateague Island, Maryland
[PB84-190206] 22 p3628 N84-32967
Remote monitoring of sediments and chlorophyll as traces of pollutant movements in a Mediterranean coastal area 23 p3780 N84-33969
The influence of perturbing water properties in chlorophyll mapping 23 p3780 N84-33970
Spatial structures of optical parameters in the California current as measured with the Nimbus-7 coastal zone color scanner
[AD-A144070] 23 p3803 N84-34115
Remote sensing of coastal environment: The estuarine processes of Ta-Tu River 24 p3955 N84-35039
Preliminary study of LANDSAT imageries of Taiwan and its surroundings 24 p3956 N84-35050

COASTAL ZONE COLOR SCANNER
Normalization of water-leaving radiance obtained from the Coastal Zone Colour Scanner (CZCS) data 03 p0399 N84-12610
The advection of submesoscale thermal features in the Alboran Sea Gyre
[AD-A133877] 06 p0884 N84-15749
Description of algorithms for processing Coastal Zone Color Scanner (CZCS) data
[NASA-CR-173466] 12 p1863 N84-22138
Principal components as a method for atmospherically correcting coastal zone color scanner data
[AD-P003124] 16 p2533 N84-26265
Development of Great Lakes algorithms for the Nimbus-G coastal zone color scanner
[NASA-CR-173511] 17 p2711 N84-27258
Spatial structures of optical parameters in the California current as measured with the Nimbus-7 coastal zone color scanner
[AD-A144070] 23 p3803 N84-34115

COASTS
Wind and wave summaries for selected U.S. Coast Guard operating areas
[AD-A130647] 01 p0108 N84-10702
Evaluation of spatial, radiometric and spectral thematic mapper performance for coastal studies
[E84-10018] 02 p0237 N84-11555
Hydrographic survey requirements system (HYSUR)
[AD-A131115] 02 p0240 N84-11573
Measurements of atmospheric aerosols: Experimental methods and results of measurements off the east coast of the United States
[AD-A130996] 02 p0248 N84-11626
Application of high resolution satellite data to coastal zones: SPOT simulations during ecological survey of the Britanny coast 03 p0397 N84-12591
Actual state and recent evolution of the French coast observed by remote sensing using LANDSAT recordings 03 p0399 N84-12606
10 cm radar ground clutter measurements taken from a coastal steamer radar on passage from Bergen to North Cape in May 1982 06 p0871 N84-15667
Short-range local forecasting of coastal summer stratus by statistical techniques, a pilot study
[AD-A134590] 07 p1040 N84-16742
Remote sensing: New satellite systems and potential applications — conferences
[ESA-SP-205] 08 p1174 N84-17650
Coastal zones inventory by high resolution satellites 08 p1176 N84-17661
Northeast Scotland coastal field guide and geographical essays
[AD-A134861] 08 p1178 N84-17674
Proceedings of the 18th International Conference on Coastal Engineering
[ISBN-0-7988-2553-7] 08 p1194 N84-17783

Nearshore current model workshop summary
[AD-A134702] 08 p1195 N84-17791
Methodology for the calculation of a shallow-water wave climate
[AD-A134715] 08 p1195 N84-17792
Evaluation of spatial, radiometric and spectral Thematic Mapper performance for coastal studies
[E84-10093] 10 p1522 N84-19964
LORAN-C signal stability study: Northeast and southeast U.S.
[AD-A137628] 11 p1604 N84-20508
Climatic study of the southern California operating area near coastal zone
[AD-A137698] 11 p1687 N84-20999
Classification of coastal environments, shorezone profile dynamics
[AD-A139947] 15 p2373 N84-25240
Meteorological measurements in the Northern German coastal area for wind energy prospection
[BMFT-FB-T-84-017] 16 p2529 N84-26241
A numerical study of the coastal stratus cloud in a two-dimensional meso-scale model
17 p2733 N84-27371
The space-time scales of variability in oceanic thermal structure off the central California coast
[AD-A142040] 19 p3062 N84-29428
A directory of European, Middle Eastern, and North African coastal ground control points for mapping satellite images
[AD-A142019] 20 p3228 N84-30512
Interannual variability in sea-surface temperature at one location along the central California coast
[AD-A142553] 20 p3251 N84-30632
Predictability of inversions at Vandenberg (VBG) AFB, California
[AD-A144042] 23 p3802 N84-34107
The functional condition of seamen under conditions of the southern maritime area 23 p3807 N84-34137

COATING
NT ANODIZING
NT ELECTROPLATING
NT ENCAPSULATING
NT METALLIZING
Development of strain tolerant thermal barrier coating systems, tasks 1 - 3
[NASA-CR-168251] 03 p0355 N84-12312
Electromagnetic shielding of full-sized structures by metal arc spraying
[AD-A132883] 05 p0663 N84-14357
Sputtering of multicomponent materials
06 p0816 N84-15312
Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] 07 p0967 N84-16266
Contactless pellet fabrication
[NASA-CASE-NPO-15592-1] 07 p1069 N84-16940
Stabilization of thickness of zinc coating by adaptive system of control
[BLL-M-35367-(5828.4)] 09 p1281 N84-18364
Practical applications and uses of solid lubricant films
15 p2342 N84-25056
Status of plasma physics techniques for the deposition of tribological coatings 15 p2342 N84-25058
Abrasive tip treatment for use on compressor blades
[NASA-CR-174666] 15 p2343 N84-25065
Influence of the environment on the application and drying quality of organic paints — aircraft structures
[SNIAS-832-551-102] 16 p2471 N84-25833
Coating of self-catalytic nickel on aluminum and aluminum alloys
[AD-A140997] 17 p2623 N84-26791
Fiber optic light guides based on polymer coated multicomponent glasses 21 p3487 N84-32100

COATINGS
NT ALUMINUM COATINGS
NT ANODIC COATINGS
NT ANTIREFLECTION COATINGS
NT CATHODIC COATINGS
NT CERAMIC COATINGS
NT ELECTROPLATING
NT ENAMELS
NT ENCAPSULATING
NT GLASS COATINGS
NT GLAZES
NT GOLD COATINGS
NT LACQUERS
NT MAGNETIC FILMS
NT METAL COATINGS
NT METALLIZING
NT NICKEL COATINGS
NT PAINTS
NT PLASTIC COATINGS
NT PRIMERS (COATINGS)
NT PROTECTIVE COATINGS
NT REFRACTORY COATINGS
NT RUBBER COATINGS
NT SPRAYED COATINGS
NT THERMAL CONTROL COATINGS
NT ZINC COATINGS
Materials research for advanced inertial instrumentation. Task 2: Gas bearing material development
[AD-A130471] 01 p0007 N84-10044
On the electrochemical precipation of titanium coatings
[BLL-OA-TRANS-3028-(6196.3)] 01 p0043 N84-10274
The mechanics of bridging cracks
[BLL-T6144/LRST652/83(9022.048)] 01 p0057 N84-10369
Insulation-resistance measurements of coated and uncoated printed wiring boards
[DE83-015457] 01 p0074 N84-10489
The development and study of sensitive and process-compatible polymers for X-ray lithography
[BMFT-FB-T-83-122] 02 p0202 N84-11314
Novel techniques for enhanced reflectivity infrared mirrors
[AD-A131924] 03 p0441 N84-12894
Sputtered C-axis inclined piezoelectric films and shear-wave resonators
[DE83-017253] 03 p0455 N84-12997
Investigation of soft X-ray reflective coatings
[DE84-000510] 04 p0610 N84-14025
An investigation of substrate effects on type two hot corrosion of marine gas turbine materials
[AD-A132833] 05 p0655 N84-14303
Study of limiter damage in a magnetic-field error region of the ZT-40M experiment
[DE84-001711] 05 p0750 N84-14924
Aerostat icing problems
[AD-A133403] 06 p0810 N84-15272
Development of improved coating for advanced carbon-carbon components
[NASA-CR-173248] 07 p0967 N84-16265
Aluminum-manganese plating from a molten salt bath
[AD-A135240] 08 p1131 N84-17356
Passive films, surface structure and stress corrosion and crevice corrosion susceptibility
[AD-A135549] 08 p1132 N84-17363
Polymeric glazings
[DE84-000016] 08 p1138 N84-17402
Ion beam assisted deposition of SiO2
[AD-A136247] 09 p1278 N84-18342
Influence of surface tension and surface shear on final coat thickness in jet-stripped continuous coating of sheet materials
[AD-A136402] 09 p1314 N84-18586
Durable solid lubricant coatings for foil gas bearings to 315 deg C
[NASA-TM-83596] 10 p1485 N84-19567
A vibration damping treatment for high temperature gas turbine applications 10 p1514 N84-19912
Effect of Rhodamine B on the electrodeposition of lead on copper
[DE84-005535] 11 p1634 N84-20683
Surface modification by physical vapour deposition
[AD-A137844] 11 p1637 N84-20706
Performance criteria for restoration coatings for porcelain enamel surfaces
[PB84-141787] 11 p1638 N84-20709
Fundamental processes occurring at electrodes
[AD-A138038] 12 p1791 N84-21679
Ion plating of coatings made from high melting point metals
[BLL-RISLEY-TRANS-4879] 12 p1796 N84-21715
Turbulent boundary layer thermochemical attack on coated walls
[DE84-005892] 12 p1817 N84-21843
Diamondlike flake composites
[NASA-CASE-LEW-13837-1] 13 p1953 N84-22695
A study of adherent oxide formation
[AD-A139505] 14 p2123 N84-23722
Structure and porosity of electrodeposited platinum: Evaluation of 4 plating methods
[PB84-152933] 14 p2129 N84-23763
Achievements and plans of the Solar Thermal Advanced Research Center
[DE84-005480] 14 p2172 N84-24010
Space plasma high-voltage drainage experiment (A0054) 15 p2274 N84-24655
Investigation of critical surface degradation effects on coatings and solar cells developed in Germany (S1002)
15 p2275 N84-24658
Effects of surface chemistry on hot corrosion life
[NASA-CR-174683] 15 p2295 N84-24774
Stresses in and around double confocal spheroids embedded in infinite media 15 p2314 N84-24883
Status and new directions for solid lubricant coatings and composite materials 15 p2341 N84-25055
Support of oil lubrication by bonded coatings
15 p2342 N84-25057
Status of plasma physics techniques for the deposition of tribological coatings 15 p2342 N84-25058
Status of understanding for seal materials
15 p2343 N84-25062
Plasma behavior in vacuum coating using hot hollow cathode: A literature survey and proposal for experiment
[DE84-007907] 15 p2411 N84-25471
The application of the black electrically conductive coating CHEMGLAZE H322
[ESA-PSS-01-734-ISSUE-1] 16 p2471 N84-25834
Characterization of crystallographic structure and internal stress of chromium coatings plated under current interruptions
[AD-A136118] 17 p2623 N84-26786
Proceedings of the 5th Symposium on applied surface analysis
[AD-A140744] 17 p2768 N84-27576
Overlay coating degradation by simultaneous oxidation and coating/substrate interdiffusion
[NASA-TM-83738] 21 p3365 N84-31344
Behavior of Ni-Cr-Si coating alloys in Na2SO4, V2O5 and mixed salt hot corrosion
[DE84-012386] 21 p3367 N84-31363
Hard Coatings for Tribological Systems Operating under Extreme Conditions
[DE84-009680] 21 p3368 N84-31369
Analytical characterization of coatings and thin overlayers
[DE84-011902] 21 p3371 N84-31389
Dual ion beam deposition of carbon films with diamondlike properties
[NASA-TM-83743] 21 p3390 N84-31512
Improved photovoltaic cells and electrodes
[DE84-011105] 21 p3393 N84-31530
Optical coating materials for the ultraviolet: Selection and characterization
[DE84-011504] 21 p3410 N84-31629
Composition and structure of multicomponent vanadium- and niobium-base coatings
[BLL-M-35657-(5828.4)] 22 p3550 N84-32474
Development and testing of glass coatings for Hexanite-A powders
[CSIR-TRANS-1747] 22 p3557 N84-32527
RF sputtered silicon and hafnium nitrides as applied to 440C steel
[NASA-TM-86862] 22 p3559 N84-32536
Molten carbonate fuel cell performance model update
[DE84-012932] 22 p3589 N84-32733
Coating developments to restrict strategic materials usage 23 p3704 N84-33483
Effect of surface condition and edge preparation on metal fusion during laser welding
23 p3710 N84-33518
Natural weathering of selected organic matrix composites
[AD-A144091] 23 p3711 N84-33527
Development of a production method for hard dielectric coating systems
[BMFT-FB-T-84-116] 23 p3727 N84-33621
Use of concentrated solar energy to form slip coatings
24 p3874 N84-34552
Passive countersurveillance: An overview
24 p3914 N84-34781

COAXIAL CABLES
Transmission lines with very lossy conductors and seawater return
[AD-A130739] 01 p0065 N84-10427
Potential applications of cable television (CATV) to the FEMA (Federal Emergency Management Agency) communications mission
[AD-A131326] 02 p0209 N84-11367
Prototype fiber optic system to remote TRACALS radar
[AD-A132073] 03 p0360 N84-12341
Proceedings of the 32d International Wire and Cable Symposium
[AD-A136749] 11 p1719 N84-21212
Design and characteristics of radiating pair cable
11 p1720 N84-21217
Equipment and design changes in extrusion of foamed fluoropolymer resins 11 p1721 N84-21229
Design/Process optimization of paired computer interconnecting cable for local area networks
11 p1725 N84-21251
A practical single-mode system, 50 km at 140 mbit/s
11 p1725 N84-21253
An analysis of the coax-fed monopole in a general medium
[AD-A137981] 12 p1811 N84-21805
Design considerations for high-power VHF radar transceivers: Phase matching long coaxial cables using a cable radar 17 p2693 N84-27149
Demountable coaxial electrical connector for in-line amplifiers
[AD-D011074] 19 p3017 N84-29128

Backfire bifilar helix antenna
[AD-D011118] 22 p3587 N84-32719
COAXIAL FLOW
Mass and momentum turbulent transport experiments with confined swirling coaxial jets
[NASA-CR-168252] 08 p1156 N84-17530
Mass and momentum transport experiments with swirling flow 11 p1610 N84-20541
The influence of large-scale motion on turbulent transport for confined coaxial jets 11 p1610 N84-20542
COAXIAL NOZZLES
An experimental and analytical study on spray flow field by liquid/gas coaxial injector elements. 3: Application for the combustion performance prediction model of LO2/LH2 rocket combustion
[NAL-TR-769] 09 p1274 N84-18317
COAXIAL PLASMA ACCELERATORS
Coaxial carbon plasma gun deposition of amorphous carbon films
[NASA-TM-83600] 10 p1587 N84-20404
COAXIAL TRANSMISSION
U COAXIAL CABLES
U TRANSMISSION
COBALT
NT COBALT 60
Installation of electric generators on turbine engines 01 p0010 N84-10061
Magnetic properties and structure of monocrystals of Fe-24 percent Cr-15 percent Co-8 percent W alloys
[BLL-M-35131-(5828.4)] 01 p0040 N84-10253
Updated process flowsheets for manganese nodule processing
[PB83-226340] 01 p0047 N84-10303
Cobalt ion-containing epoxies
[NASA-TM-85715] 04 p0505 N84-13309
The organic geochemistry of deep ground waters and radionuclide-partitioning experiment: Under hydrothermal conditions
[DE83-015784] 04 p0554 N84-13651
Mobility of organic complexes of nickel and cobalt in soils
[DE83-017897] 04 p0564 N84-13720
Studies of supported metal catalysts
[DE84-004210] 09 p1285 N84-18389
Metal-support interactions: Their effects upon adsorption, electronic, and activity/selectivity properties of cobalt in CO hydrogenation
[DE83-013012] 10 p1457 N84-19516
The role of cobalt on the creep of Waspaloy
[NASA-CR-174628] 10 p1458 N84-19523
Strength of hard alloy elements of high pressure apparatus for synthesis of superhard materials 12 p1785 N84-21647
Redox thermodynamics of surface-bound reactants. Illustrative behavior of Cobalt(3)/(2) macrobicyclic cage complexes
[AD-A139058] 13 p1957 N84-22723
Effects of long-time elevated temperature exposures on hot-isostatically-pressed power-metallurgy Udimet 700 alloys with reduced cobalt contents
[NASA-TM-83632] 19 p2985 N84-28917
Towards a cycle without loss: Cobalt in the aircraft industry 23 p3702 N84-33469
Process for improving mechanical properties of epoxy resins by addition of cobalt ions
[NASA-CASE-LAR-13230-1] 24 p3878 N84-34571
Evaluation of candidate Stirling engine heater tube alloys after 3500 hours exposure to high pressure doped hydrogen or helium
[NASA-TM-83782] 24 p3883 N84-34603
COBALT ALLOYS
NT ASTROLOY (TRADEMARK)
NT RENE 95
Phase transformations and coercive force of alloys based on the compound SmCo5
[BLL-M-35117-(5828.4)] 01 p0040 N84-10255
Effect of structural factors on the crack resistance of tungsten carbide/cobalt alloys at high temperatures
[CSIR-1682] 01 p0042 N84-10269
Creep fatigue of low-cobalt superalloys: Waspaloy, PM U 700 and wrought U 700
[NASA-CR-168260] 04 p0496 N84-13265
Effects of cobalt in nickel-base superalloys
[NASA-CR-168308] 05 p0652 N84-14287
Preliminary study of thermomechanical fatigue of polycrystalline MAR-M 200
[NASA-TP-2280] 08 p1130 N84-17350
Influence of cobalt, tantalum and tungsten on the high temperature mechanical properties of single crystal nickel-base superalloys
[NASA-TM-83479] 08 p1131 N84-17355
Grain size in sintered samarium-cobalt alloys and their coercive force
[BLL-M-35406(5826.4)] 09 p1281 N84-18365
Analysis of thermoelectric properties of high-temperature complex alloys of nickel-base, iron-base and cobalt-base groups
[NASA-TP-2278] 09 p1281 N84-18370
Effects of alloy composition on cyclic flame hot-corrosion attack of cast nickel-base superalloys at 900 deg C
[NASA-TP-2338] 17 p2622 N84-26783
Creep-rupture behavior of candidate Stirling engine iron superalloys in high-pressure hydrogen. Volume 2: Hydrogen creep-rupture behavior
[NASA-CR-174705] 19 p2992 N84-28961
High-temperature cyclic oxidation data, volume 1
[NASA-TM-83665] 21 p3365 N84-31345
Study of high performance alloy electroforming — nickel manganese and nickel cobalt manganese alloys
[NASA-CR-173865] 21 p3366 N84-31350
Slavutich high-cobalt WC-Co-matrix alloy
[CSIR-TRANS-1739] 22 p3552 N84-32490
Understanding the roles of the strategic element cobalt in nickel base superalloys 23 p3703 N84-33471
Using recycled superalloys in precision casting 23 p3705 N84-33486
Study of high performance alloy electroforming
[NASA-CR-173979] 23 p3717 N84-33585
Effect of stretch rate on texture and mechanical properties of nickel-cobalt alloys 24 p3869 N84-34521
Solidification study of some Ni- and Co-base alloys 24 p3882 N84-34596
COBALT COMPOUNDS
NT COBALT OXIDES
Magnetic properties of CoCl2-intercalated graphite
[AD-A133860] 05 p0648 N84-14260
Interfacial reactions of nickel and cobalt thin films on silicon 24 p3959 N84-35064
COBALT ISOTOPES
NT COBALT 60
COBALT OXIDES
Comparison of the calculated properties of high-angle (001) twist boundaries in MnO, FeO, CoO and NiO with MgO
[DE83-015677] 02 p0201 N84-11307
Point defects and diffusion mechanisms in the monoxides of the iron-group metals
[DE84-012105] 21 p3505 N84-32210
Interfacial reactions of nickel and cobalt thin films on silicon 24 p3959 N84-35064
COBALT 60
A comparison of radiation damage in liner ICs from cobalt-60 gamma rays and 2.2-MeV electrons
[NASA-CR-173474] 12 p1901 N84-22380
COBE
U COSMIC BACKGROUND EXPLORER SATELLITE
COBOL
The TRW DATACOM AWS 246, TRW COBOL, Version 8.0 (Pre-Release)
[PB83-228148] 01 p0125 N84-10814
The NCR Corporation, WS 210, NCR COBOL Release 3.0 (Pre-Release)
[PB83-228171] 01 p0125 N84-10815
Burroughs Corporation B21-5T (512K), B20 COBOL Release 3.0 (Pre-Release)
[PB83-228130] 01 p0125 N84-10816
Convergent technologies IWS 111, CT COBOL Version 8.0 (Pre-Release)
[PB83-228122] 01 p0125 N84-10817
Burroughs Corporation B21-5T (512K), B20 COBOL release 3.0 (Pre-Release)
[PB83-233254] 01 p0127 N84-10827
Convergent technologies, IWS 111, CT COBOL version 8.0 (Pre-Release)
[PB83-233247] 01 p0127 N84-10828
Data General Corporation ECLIPSE C/350, AOS and AOS/VS HICOBOL revision 2.00
[PB83-233486] 02 p0275 N84-11799
NCR Corporation, NCR 19300, ITX COBOL, release 1.0 (COBOL technical report)
[PB83-241943] 02 p0276 N84-11805
NCR Corporation, NCR 19300, NCR ITX COBOL release 1.0
[PB83-241935] 02 p0276 N84-11806
Data Generation Corporation Eclipse MV/8000, AOS/VS COBOL Revision 2.14
[PB83-237396] 02 p0276 N84-11808
The TRW DATACOM AWS 246, TRW COBOL Version 8.0 (Pre-Release)
[PB83-233981] 02 p0276 N84-11810
The NCR Corporation, Office Systems Division, WS 210, NCR COBOL release 3.0 (Pre-Release)
[PB83-233718] 02 p0276 N84-11811
Northern Telecom, Incorporated NTI-585 ACOBOL/3 release 3 (COBOL technical report)
[PB83-241521] 03 p0422 N84-12758
Northern Telecom Incorporated NTI-585 XCOBOL, release 3
[PB83-241539] 03 p0422 N84-12759
Northern Telecom, Incorporated NTI-585 XCOBOL, release 3 (COBOL technical report)
[PB83-241547] 03 p0422 N84-12760
Digital Equipment Corporation VAX 11/750, VAL-11 COBOL version 2.2
[PB83-241588] 03 p0422 N84-12761
Digital Equipment Corporation, PDP-11/44 COBOL-81 version 2.0
[PB83-247734] 03 p0422 N84-12764
Digital Equipment Corporation COBOL-81 version 2.0 (COBOL technical report)
[PB83-247742] 03 p0423 N84-12765
Perkin-Elmer, Perkin-Elmer 3230 COBOL R07 (pre-release)
[PB83-238600] 03 p0423 N84-12766
Computerized art plotting system. Volume 1: Horizontal bar charts (second edition)
[DE83-018113] 04 p0582 N84-13639
Digital Equipment Corporation, VAX 11/750, VAL-11 COBOL version 2.2 (COBOL technical report)
[PB83-241596] 04 p0583 N84-13651
Datapoint Corporation Datapoint 8800 RMS COBOL 2.3.A
[PB83-240962] 04 p0583 N84-13653
Datapoint Corporation, Datapoint 8800, RMS COBOL 2.3.A
[PB83-241075] 04 p0583 N84-13654
Northern Telecom, Incorporated NTI-585 A COBOL/3 release 3
[PB83-241513] 04 p0584 N84-13655
Hewlett Packard HP 3000 series 40, COBOL 11/3000 version A.00.09
[PB83-254805] 04 p0584 N84-13658
Hewlett Packard HP 3000 series 40, COBOL 11/3000 version A.00.09 (COBOL technical report)
[PB83-254813] 04 p0584 N84-13659
Differences in COBOL syntax between vendors' implementations
[PB83-263392] 05 p0720 N84-14721
Stratus Computer, Inc. Stratus 32, VOS COBOL release 2.5
[PB83-262378] 05 p0720 N84-14722
COBOL programming standards at Sandia labs
[DE84-001790] 07 p1055 N84-16835
Four Phase Systems, Incorporated IV/90 Mod 2 COBOL '74 release BE07
[PB84-102706] 08 p1214 N84-17923
Four Phase Systems, Incorporated IV/90 Mod 2 COBOL '74 release BE07.COBOL technical report
[PB84-102714] 08 p1215 N84-17924
Burroughs Corporation, Burroughs B3955, Burroughs COBOL, version 6.7
[PB84-128446] 09 p1370 N84-18947
Harris Corporation, Harris H800, VOS COBOL, version 3.0
[PB84-128487] 09 p1370 N84-18949
Harris Corporation, Harris H800, Harris COBOL, version 3.0
[PB84-128495] 09 p1370 N84-18950
Honeywell Information Systems, DPS 8/49C, COBOL CB4.3U1 B06
[PB84-134758] 10 p1557 N84-20204
Tandem Computers, Incorporated, Tandem Nonstop 2 COBOL T9201E01
[PB84-137199] 10 p1558 N84-20206
SDC/A Burroughs Corporation B94 CMS system CMS COBOL release 3.05
[PB84-140235] 10 p1565 N84-20257
Honeywell Information Systems DPS 6/96 COBOLR release 1.0
[PB84-137264] 11 p1705 N84-21113
Analyzing program methodologies using software science
[AD-A138121] 12 p1881 N84-22259
Validation report IBM Corporation, IBM 5360 MODEL B24, SYSTEM/36 COBOL release 1
[PB84-149228] 12 p1885 N84-22288
Honeywell Information Systems, DPS 6/96, CoBOLA Release 4.0
[PB84-150010] 12 p1886 N84-22293
IBM Corporation, IBM 5360 model B24 SYSTEM/36 COBOL Release 1
[PB84-150228] 12 p1886 N84-22294
Data General Corporation, Eclipse MV/8000, AOS/VS HICOBOL, revision 2.01
[PB84-157346] 14 p2206 N84-24241
Prime Computer, Incorporated, Prime 750, COBOL-74 19.4, revised
[PB84-155985] 14 p2207 N84-24249
COBOL technical report, United information Services, Incorporated, CDC CYBER 175, CDC COBOL 5.3 level 552
[PB84-156587] 14 p2208 N84-24251
Wang Laboratories, Incorporated, VS-100 VS COBOL, Version 3.8.1
[PB84-156595] 14 p2208 N84-24252

COBOL technical report, Wang Laboratories, Incorporated, VS-100 VS COBOL Version 3.8.1
[PB84-156678] 14 p2208 N84-24253
Validation summary report, Data General Corporation, Eclipse MV/8000, AOS/VS COBOL revision 2.16
[PB84-156116] 14 p2208 N84-24258
Burroughs Corporation, B1990-DP system, B1000 system COBOL74 release 11.0
[PB84-179241] 17 p2755 N84-27487
COBOL automated verification system, implementation phase
[AD-A141083] 19 p3074 N84-29504
A study of the application of software metrics to COBOL
[AD-A141467] 19 p3076 N84-29516
Burroughs Corporation, B5900, large systems COBOL74 3.4.1.
[PB84-181379] 20 p3268 N84-30735
Gould Incorporated, Gould Concept 32/87, COBOL Release 1.4
[PB84-180249] 20 p3276 N84-30798
Common data input-retrieval system
[DE84-010972] 20 p3315 N84-31053

COCHLEA
Cochlear mechanics: Analysis for a pure tone
[AD-A136438] 09 p1386 N84-19055

COCKPIT SIMULATORS
A comparison of manual and vocal response modes for the control of aircraft subsystems
[AD-A132048] 03 p0330 N84-12152

COCKPITS
Cockpit voice recognition program at Princeton University 02 p0169 N84-11109
Symbology verification study
[AD-A131328] 02 p0177 N84-11162
Study to determine the IFR operational profile and problems to the general aviation pilot 03 p0311 N84-12032
Analysis of airborne antenna pattern and mutual coupling and their effects on adaptive array performance 05 p0672 N84-14416
Color display technology in advanced fighter cockpits 06 p0772 N84-15061
Linguistic methodology for the analysis of aviation accidents
[NASA-CR-3741] 06 p0784 N84-15135
Real-time pilot guidance system for improved flight test maneuvers
[NASA-TM-84922] 07 p0952 N84-16176
Development of a systems theoretical procedure for evaluation of the work organization of the cockpit crew of a civil transport airplane
[NASA-TM-77359] 07 p1051 N84-16806
CDTI target selection criteria
[NASA-CR-3776] 08 p1104 N84-17178
Automation, supervisory control and workload in flight management
[NASA-CR-166474] 08 p1202 N84-17836
Development of speech input/output interfaces for tactical aircraft
[AD-A136485] 09 p1255 N84-18193
Accuracy and speed of response to different voice types in a cockpit voice warning system
[AD-A135595] 09 p1301 N84-18503
Aircraft simulator: Multiple-cockpit combat mission trainer network
[AD-A137182] 10 p1432 N84-19363
Simulation of a cockpit-display concept for executing a wake-vortex avoidance procedure
[NASA-TP-2300] 12 p1770 N84-21542
The project Cockpit Instruments and Human Engineering as part of a joint research program on aircraft guidance and control at the Technical University of Brunswick
[ESA-TT-783] 16 p2539 N84-26300
Lufthansa German Airlines experience with cabin and cockpit windows of Boeing 707, 727, 737, 747, Douglas DC10 and Airbus A300
[AD-P003226] 17 p2596 N84-26639
Simulation of T-38 aircraft student canopy response to cockpit pressure and thermal loads using MAGNA (Materially and Geometrically Nonlinear Analysis)
[AD-P003231] 17 p2597 N84-26644
Cockpit data management requirements (current technology aircraft)
[AD-A140643] 17 p2607 N84-26699
Voice communication and positive pressure breathing in noise
[AD-A141303] 18 p2830 N84-27965
Criteria for selecting subjects for the assessment of advanced crew system concepts
[AD-P003354] 18 p2912 N84-28470
Cockpit data management requirements (current technology aircraft)
[FAA-PM-83-25] 19 p2961 N84-28766
UH-60A Black Hawk engineering simulation program. Volume 1: Mathematical model
[NASA-CR-166309] 19 p2968 N84-28806
Advanced cockpit-systems integration
[AD-P003569] 21 p3337 N84-31174

CODE DIVISION MULTIPLE ACCESS
The effects of Reed-Solomon code shortening on the performance of coded telemetry systems 04 p0518 N84-13403

CODERS
The 2400- to 800-B/S LPC (Linear Predictive Coder) rate converter
[AD-A129825] 01 p0070 N84-10456
Coding of full motion color video signals at 50 kb/s
[AD-A134319] 08 p1146 N84-17456
The C-squared system: A general-purpose neuron network model
[AD-A136191] 09 p1304 N84-18524
A quaternary logic encoder-decoder circuit design using CMOS
[AD-P002351] 14 p2192 N84-24142
Objective speech quality evaluation of real-time speech coders
[AD-A141194] 18 p2829 N84-27959
A procedure for designing exact reconstruction filter banks for tree-structured subband coders
[AD-A142345] 20 p3173 N84-30150

CODES
Numerical experiments with CONCHAS-SPRAY: Compression stroke of an external chamber diesel engine
[DE84-002321] 06 p0853 N84-15561
Methodology for the objective validation of model performance, with an application to atmospheric transport models
[DE83-015693] 06 p0875 N84-15693
Studies in RF emission and absorption in EBT plasmas
[DE84-002118] 07 p1076 N84-16996
Database transfers between several systems
[DE84-003841] 07 p1085 N84-17056
Discussion of moment method codes with emphasis on aperture coupling
[DE84-005116] 11 p1644 N84-20751

CODING
NT DECODING
NT REDUNDANCY ENCODING
NT SIGNAL ENCODING
Description of NCAR (National Center for Atmospheric Research) community climate model (CCMOB)
[PB83-231068] 01 p0110 N84-10715
Ray-tracing analysis of electron-cyclotron-resonance heating in straight stellarators
[DE83-013854] 01 p0149 N84-10982
Symbol synchronization for the TDRSS decoder
[NASA-CR-170603] 02 p0207 N84-11352
Automatic-repeat-request error control schemes
[NASA-CR-170605] 02 p0207 N84-11353
VLSI architectures for computing multiplications and inverses in GF(2-m) 04 p0518 N84-13406
A compact optical pulse compressor with computer-generated holographic masks for radar applications
[AD-A132152] 04 p0522 N84-13430
Study of potential standardization of video teleconferencing systems. Volume 2: Appendices
[AD-A132081] 04 p0522 N84-13431
Study of potential standardization of video teleconferencing systems, volume 1
[AD-A132080] 04 p0522 N84-13432
Assessment of quality of data on tapes from the hydrogeochemical and stream sediment reconnaissance
[DE83-017697] 04 p0554 N84-13847
Short introduction to office applications of markup language
[DE83-011400] 04 p0582 N84-13844
Bending of beams subjected to transverse impacts
[MRL-R-886] 05 p0692 N84-14544
ANSR-3: General purpose computer program for nonlinear structural analysis
[PB83-251330] 05 p0694 N84-14556
INTEL 432/670 Ada benchmark performance evaluation in the Multiprocessor/Multiprocess environment
[AD-A132774] 05 p0719 N84-14715
CRAY-1 instruction analysis: A comparison of two methods
[DE83-012778] 05 p0730 N84-14794
Ordering methods for sparse matrices
[AD-A133657] 05 p0735 N84-14824
Vector coding the finite volume procedure for the CYBER 205 06 p0839 N84-15465
NASA/MSFC NASTRAN auxiliary I/O routines 06 p0858 N84-15592
BERTHA: A versatile transmission line and circuit code
[DE84-002984] 07 p0998 N84-16474
Jam-resistant speech encoding
[AD-A134707] 08 p1145 N84-17448
Investigation of encryptation for satellite communications
[FOA-C-30300-E1] 08 p1146 N84-17457
Simply instrumentable and optimal digitization of analog information sources
[AD-A135124] 08 p1150 N84-17484
Real-time implementation of a speech digitization algorithm combining time-domain harmonic scaling and adaptive residual coding, volume 1
[AD-A135232] 08 p1150 N84-17485
Real-time implementation of a speech digitization algorithm combining time-domain harmonic scaling and adaptive residual coding, volume 2
[AD-A135233] 08 p1150 N84-17486
BERTHA: A versatile transmission line and circuit code
[AD-A135024] 08 p1209 N84-17886
On a secure public-key cryptosystem 08 p1224 N84-17997
Problem-oriented specification of concurrent algorithms 09 p1400 N84-19145
Cray/VAX interactive graphics system
[DE84-003826] 10 p1564 N84-20249
BIMOND: Monotone bivariate interpolation code (preliminary documentation)
[DE84-004159] 10 p1565 N84-20252
Fundamentals of mode S parity coding
[DOT/FAA/PM-83/6] 11 p1642 N84-20736
Fast algorithms for improved speech coding and recognition
[AD-A137569] 11 p1643 N84-20740
Implementation of MACLISP on a large address space computer
[DE84-005042] 11 p1710 N84-21145
Obtaining the zero-temperature equation of state from shock data
[DE84-006696] 11 p1728 N84-21272
Cryptography in a communication system
[NLR-MP-82051-U] 12 p1808 N84-21787
Shannon: Theory and cryptography
[NLR-MP-82053-U] 12 p1808 N84-21788
State variable method of fault tree analysis
[DE84-006007] 12 p1824 N84-21891
Grid-based line drawing quantization
[AD-A138194] 12 p1881 N84-22261
Reliability analysis using network simulation
[DE84-006990] 12 p1904 N84-22397
CONTAM 3 plus improved CONTAM 3 usability 13 p1941 N84-22622
Microwave curing of composites 13 p1955 N84-22708
Atmospheric correction study/atmospheric model optimization
[INPE-2969-RPE/448] 13 p2010 N84-23040
Characteristics of a prototype experiment 13 p2027 N84-23140
Structural coverage of functional testing 13 p2027 N84-23141
Adaptive hybrid picture coding
[AD-A138876] 13 p2033 N84-23184
The early roots of Babylonian mathematics. Part 3: Three remarkable texts from Elba
[CTH-MATH-198314-PT-3] 13 p2034 N84-23197
Micropower CMOS implementation of three-valued logic functions
[AD-P002333] 14 p2190 N84-24124
Cyclic ST-AN codes and modular ST distance
[AD-P002367] 14 p2194 N84-24158
Reconfigurable digital control laws for the A-7D DIGITAC 2 aircraft with failed primary control surfaces
[AFIT/GE/EE/82D-59] 15 p2254 N84-24535
Finite element analysis of axisymmetric forging 15 p2307 N84-24838
Satellite Data Transmission (SDT) requirement
[NASA-CR-175231] 15 p2319 N84-24920
Overview of code verification 15 p2386 N84-25311
Programs for handling Raster Chain (RC) coded images
[FOA-C-30351-E1] 15 p2390 N84-25341
Reversed-field pinch dynamics and transport studies
[DE84-009054] 15 p2411 N84-25472
One-dimensional transport code for field-reversed configurations
[DE84-007449] 15 p2411 N84-25477
Results of a research study to identify historical RDTE (Research, Development, Test and Evaluation) obligations and expenditures on major Army materiel and non-materiel systems
[AD-A139328] 15 p2416 N84-25508
Dynamic crack growth in polymers
[AD-P003106] 16 p2467 N84-25811
Effects of NRZ-M modulation on convolutional codes performance 16 p2479 N84-25894

New short constraint length, rate 1/N convolutional codes which minimize required E sub b/N sub o for given bit error rate 16 p2479 N84-25895
An easy-to-implement coding scheme for multifrequency PPM 16 p2479 N84-25896
TDA assessment of recommendations for space data system standards 16 p2479 N84-25898
Minimum-distance problems in protocol design 16 p2480 N84-25903
A microwave time transmission system [ESA-TT-782] 16 p2482 N84-25916
Maximum likelihood decoding of AMI-coded digital transmission and additive Gaussian disturbance [FI-44-TBR-91] 16 p2482 N84-25917
An extended d(min) = 4 RS code [NASA-CR-173619] 16 p2544 N84-26327
Detonation parameters for Australian high-explosives composition [MRL-R-822] 17 p2628 N84-26812
Complementary code and digital filtering for detection of weak VHF radar signals from the mesoscale — SCUSY-VHF radar, Harz Mountains, Germany 17 p2690 N84-27134
MHD stability of the spheromak 17 p2766 N84-27563
EET theoretical design techniques 18 p2784 N84-27666
Signal detection and block truncation coding for image compression [AD-A141162] 18 p2829 N84-27958
Photographic memory: The storage and retrieval of data 18 p2843 N84-28053
The effect of turbulence on the atmospheric transmittance [AD-A141133] 19 p3004 N84-29039
Morphological skeleton representation and coding of binary images [AD-A142250] 19 p3079 N84-29536
Reed Solomon codes for error control in byte organized computer memory systems [NASA-CR-173803] 19 p3080 N84-29542
DDRFP transport code [DE84-006573] 19 p3109 N84-29753
PURDU-WINCOF: A computer code for establishing the performance of a fan-compressor unit with water ingestion [NASA-CR-168005] 20 p3130 N84-29875
Three image compression algorithms for Compression and Decompression of Imaging Sensor Signals (CADISS) [NLR-MP-83027-U] 20 p3275 N84-30791
Results of investigation of adaptive speech codes 21 p3376 N84-31428
High speed low-cost ways to get messages from a sender to a receiver when some channels linking them become inoperative [AD-A142831] 21 p3386 N84-31488
The behavior of very large short pulse antennas [DE84-012372] 21 p3388 N84-31500
DYNA3D user's manual. Nonlinear dynamic analysis of solids in three dimensions, revision 1 [DE84-012828] 21 p3466 N84-31979
Efficient sequential designs with binary data [AD-A142904] 21 p3473 N84-32008
APC-2: An electron beam propagation code [DE84-011532] 21 p3494 N84-32144
Physics of ion sputtering [DE84-011664] 21 p3495 N84-32150
Improvements in the accuracy and stability of algorithms for the small-disturbance and full-potential equations applied to transonic flows [NASA-TM-85970] 22 p3530 N84-32350
Computer studies of hybrid-slotted working sections with minimum interference at subsonic speeds [NASA-TM-86002] 22 p3535 N84-32379
The compression of digital imagery by transformation [INPE-2693-PRE/412] 22 p3639 N84-33073
Prolonging the life of software [DE84-001722] 22 p3641 N84-33088
System design of a remotely operated, program controlled measurement table for the calibration of the Egret experiment. Part A: Program control [NASA-TM-77758] 23 p3812 N84-34172
Planetary data definition 23 p3841 N84-34367
Ada (trademark) training curriculum. Software engineering methodologies M201 teacher's guide, volume 3 [AD-A144258] 24 p3946 N84-34986

COEFFICIENT OF FRICTION

Bibliography of coefficient of friction literature relating to slip type accidents — slipping accidents [PB83-243626] 03 p0359 N84-12334
Friction and morphology of magnetic tapes in sliding contact with nickel-zinc ferrite [NASA-TP-2267] 07 p0977 N84-16334
Mechanism of lubrication by tricresylphosphate (TCP) [NASA-TP-2274] 09 p1324 N84-18653
A renormalization group model for the stick-slip behavior of faults [NASA-CR-173382] 09 p1344 N84-18782
An analytical method to predict efficiency of aircraft gearboxes [NASA-TM-83716] 16 p2433 N84-25606
Zero wear (selective mass transfer): New step toward higher wear resistance of machine parts 17 p2642 N84-26804
Friction in low speed lubricated rolling and sliding contacts [VTT-16] 20 p3199 N84-30318
Coefficient of surface friction with turbulent flow in boundary layer 21 p3481 N84-32064
Mechanical interactions of rough surfaces [DE84-014097] 22 p3605 N84-32841

COEFFICIENTS

NT AERODYNAMIC COEFFICIENTS
NT ATTENUATION COEFFICIENTS
NT CLEBSCH-GORDAN COEFFICIENTS
NT COEFFICIENT OF FRICTION
NT CORRELATION COEFFICIENTS
NT COUPLING COEFFICIENTS
NT DIFFUSION COEFFICIENT
NT FLOW COEFFICIENTS
NT HEAT TRANSFER COEFFICIENTS
NT INFLUENCE COEFFICIENT
NT NOZZLE THRUST COEFFICIENTS
NT RECOMBINATION COEFFICIENT
NT REGRESSION COEFFICIENTS
NT SCATTERING COEFFICIENTS
NT STRUCTURAL INFLUENCE COEFFICIENTS

Clustering of the least squares lattice PARCOR (partial correlation) coefficients: A pattern-recognition approach to steady state synthetic vowell identification [AD-A131503] 01 p0134 N84-10876
A steady-state thermal model for analysis of incipient icing on an air foil leading edge [AD-A131207] 02 p0175 N84-11150
On the Fatou set of monic polynomials 04 p0575 N84-13788
On the range of real coefficients of functions with bounded boundary rotation 04 p0575 N84-13789
Generalizing the TRAPRG and TRAPAX finite elements 06 p0859 N84-15596
On the determination of the coefficients of the Gaussian general theory of the Earth's magnetism for the year 1885 and about the relationship of the three Earth-magnetic elements [NASA-TM-77105] 07 p1033 N84-16701
Estimation of temporally and spatially varying coefficients in models for insect dispersal [AD-A135093] 08 p1218 N84-17946
Nonlinear resonance [AD-A135117] 08 p1218 N84-17950
Guide to transform software for nonlinear normal-mode initialization of the NCAR community forecast model [PB84-119130] 09 p1350 N84-18820
Estimation of discontinuous coefficients in parabolic systems: Applications to reservoir simulation [NASA-CR-172301] 10 p1568 N84-20273
Nonlinear least-squares fitting of first-order rate coefficients comparison between the Gauss-Seidel method and Swain's kore program [AD-A139080] 13 p2029 N84-23157
The determination of the Bodner material coefficients for indium 718 and their effects on cyclic loading [AD-A141174] 18 p2814 N84-27861
Variation in coefficient accounting for influence of external zones with variation in contact friction conditions — metal working [BLL-M-35596-(5828.4)] 19 p3031 N84-29222
Estimation of coefficients and boundary parameters in hyperbolic systems [NASA-CR-172389] 19 p3062 N84-29562

COENZYMES

NT CYTOCHROMES

On the mechanism of the biological conversion of citric acid. 6: Citrate-synthase is an acetyl-CoA enolase [NRC/CNR-TT-2074] 07 p0965 N84-16256

COERCIVITY

Thought control from parenting, to behavior mod, to cults, to brainwashing [AD-P003240] 18 p2903 N84-28407

COGENERATION

An assessment of advanced technology for industrial cogeneration [NASA-CR-173456] 12 p1841 N84-22001
Advanced cogeneration research study: Executive summary [NASA-CR-173467] 12 p1841 N84-22005
Cogeneration computer model assessment: Advanced cogeneration research study [NASA-CR-173453] 12 p1841 N84-22006
Survey of cogeneration: Advanced cogeneration research study [NASA-CR-173454] 12 p1842 N84-22007
Cogeneration: Status and environmental issues [PB84-155175] 17 p2723 N84-27334
AFB/open cycle gas turbine conceptual design study [NASA-CR-168135] 21 p3434 N84-31784

COGNITION

Neurocognitive pattern analysis [AD-A131302] 01 p0114 N84-10740
Task validation for studies on fragmented sleep and cognitive efficiency under stress [AD-A130260] 01 p0116 N84-10753
Weighing evidence: The design and comparison of probability [AD-A131475] 01 p0137 N84-10886
Metaphor and common-sense reasoning [AD-A131423] 02 p0268 N84-11758
What's important about knowledge representation [AD-A131260] 02 p0278 N84-11825
Effect of noise in the three-parameter logistic model [AD-A131667] 03 p0416 N84-12721
Artificial intelligence: Cognition as computation [AD-A131804] 03 p0423 N84-12770
Representations for reasoning about change [AD-A131649] 03 p0424 N84-12772
External versus intuitive reasoning: The conjunction fallacy in probability judgment [AD-A131801] 04 p0574 N84-13778
Neuromagnetic localization of two components of the transient visual evoked response to patterned stimulation [AD-A132546] 05 p0712 N84-14667
Research in knowledge representation for natural language understanding [AD-A134102] 05 p0726 N84-14765
The syntactic theory of belief and knowledge [AD-A133905] 05 p0732 N84-14807
Cognition and arousal as predictors of risk taking: Effects of load and cognitive style [AD-A134324] 08 p1203 N84-17843
Task differences, stylistic characteristics and physiological arousal [AD-A134335] 08 p1203 N84-17844
Effects of load, cognitive complexity and type A on satisfaction [AD-A134415] 08 p1203 N84-17846
The effect of locus of control on performance with man-machine dialogues 08 p1239 N84-18098
User centered system design [AD-A136131] 09 p1364 N84-19907
A theory of diagnostic inference [AD-A137032] 10 p1551 N84-20163
Self-monitoring. Cognitive processes and performance [AD-A137043] 10 p1551 N84-20164
A comparison of homogeneous and heterogeneous display formats in information integration and nonintegration tasks [AD-A136693] 10 p1554 N84-20183
Applied cognitive science [AD-A136780] 10 p1554 N84-20185
The event related brain potential as an index of information processing, cognitive activity, and skill acquisition: A program of basic research [AD-A137779] 11 p1702 N84-21100
Decision theory: Individual biases and their effect on forecasting in an organization [AD-A137943] 11 p1746 N84-21395
Research on cognitive collaboration between persons and computers [AD-P002892] 13 p1960 N84-22853
Problem solving and reasoning [AD-A138889] 14 p2186 N84-24099
Understanding picture-text instructions [AD-A139746] 15 p2382 N84-25287
Computer-managed instruction: Stability of cognitive components [AD-A139681] 15 p2383 N84-25291
Visual organization and information processing [PB84-170778] 15 p2384 N84-25295
The advantages of abstract control knowledge in expert system design [AD-A139978] 15 p2396 N84-25370
What's domain skill? Frames in information seeking [FOA-C-53014-H2] 15 p2417 N84-25515
The explanation game [AD-A140681] 17 p2757 N84-27500
Harmony theory: Problem solving, parallel cognitive models and thermal physics [AD-A140877] 17 p2759 N84-27515
Nonlaboratory techniques for the study of cognitive and decision-making processes: A description and selected bibliography [AD-A141732] 19 p3067 N84-29458

Cognitive organization as a function of flying experience
[AD-A141767] 19 p3068 N84-29459
Effects of confirmed and disconfirmed expectations: A naturally occuring experiment
[AD-A141857] 19 p3068 N84-29461
Modification of current feedback strategies: A text synthesis approach
[AD-A142187] 19 p3068 N84-29463
Nonauditory-system response to noise and effects on health 19 p3070 N84-29475
Speculations on the future of test design
[AD-A142662] 20 p3263 N84-30699
Interaction of human cognitive models and computer-based models in supervisory control
[AD-A142677] 20 p3265 N84-30717

COGNITIVE PSYCHOLOGY
Cognitive processes and knowledge structures used in solving physics problems
[PB83-225177] 01 p0157 N84-11033
Human visual information processing: Basic viewpoints from psychology and human engineering research
[NLR-MP-82032-U] 06 p0892 N84-15798
Applied cognitive science
[AD-A136780] 10 p1554 N84-20185
Memory organization-based methods of instruction: A comparison with performance-oriented training
[AD-A137640] 11 p1701 N84-21098
Research and theory on predecision processes
[AD-A137982] 12 p1866 N84-22163
Problem solving and reasoning
[AD-A138669] 14 p2186 N84-24099
Brain responses and information processing IV. Investigations of hemispheric asymmetry in event related potentials and performance during discrimination of line orientation, color, shape and under visual masking
[AD-A139797] 15 p2383 N84-25289
A consideration on the capability of receiving character-information
[NHK-SERIAL-294] 15 p2417 N84-25511
Effects of confirmed and disconfirmed expectations: A naturally occuring experiment
[AD-A141857] 19 p3068 N84-29461
Extracts from symposium: Countersurveillance 1983
[MRL-R-921] 24 p3914 N84-34779
The time it takes to see 24 p3914 N84-34782
Cognitive processes in target acquisition 24 p3914 N84-34783
A psychophysiological mapping of cognitive processes
[AD-A144557] 24 p3937 N84-34922
Estimating the number and duration of cognitive processes using the within-task subtractive method
[AD-A144617] 24 p3937 N84-34923

COHERENCE
Laser accelerators
[DE83-016123] 02 p0227 N84-11489
Coherence study of geomagnetic fluctuations in frequency range .04 - 0.6 HZ between remote land sites
[AD-A138542] 13 p2011 N84-23042
Adaptive coherence estimation
[DE84-006486] 15 p2393 N84-25361

COHERENT ACOUSTIC RADIATION
Phase averaged measurements of the coherent structure of a mach number 0.6 jet
[NASA-CR-175359] 07 p0945 N84-16134

COHERENT ANTI-STOKES RAMAN SPECTROSCOPY
U RAMAN SPECTROSCOPY

COHERENT ELECTROMAGNETIC RADIATION
NT COHERENT LIGHT
Coherent propagation and sum frequency generation into the vacuum ultraviolet
[AD-A130729] 01 p0066 N84-10428
Coherent electromagnetic wave propagation and scattering in random media
[AD-A133601] 06 p0825 N84-15381
Theoretical studies on free electron lasers
[AD-A136333] 09 p1321 N84-18627
New high power coherent radiation sources
[AD-A137317] 10 p1479 N84-19662
Off-axis coherently pumped laser
[NASA-CASE-GSC-12592-1] 18 p2845 N84-28065
Plasma dynamics 22 p3683 N84-33354
High power millimeter wavelength coherent radiation sources
[AD-A144461] 24 p3909 N84-34759

COHERENT LIGHT
Multistability due to the helical optical distributed feedback in the cholesteric liquid crystals 14 p2241 N84-24454

COHERENT RADAR
Simulation and interpretation of polarization diversity radar spectral functions
[AD-A132622] 05 p0670 N84-14402
Target super-resolution compensation for coherent airborne radar utilizing spread spectrum waveforms
[AD-A136545] 13 p1982 N84-22866
Coherent laser radar remote sensing
[AD-A139448] 14 p2151 N84-23885
Techniques for measurements of horizontal and vertical velocities 17 p2686 N84-27104
Chung-Li, Taiwan dual mode (Doppler and spaced antenna) VHF radar: Preliminary specifications 17 p2691 N84-27141
Signal processing at the Poker Flat MST radar 17 p2695 N84-27169
Ocean waves and turbulence as observed with an adaptive coherent multifrequency radar 17 p2714 N84-27279
Coherent polarimetric C-band radar for atmospheric research 23 p3776 N84-33937
Wind measurement with coherent laser radar at 10 microns 24 p3907 N84-34750

COHERENT RADIATION
NT COHERENT ACOUSTIC RADIATION
NT COHERENT ELECTROMAGNETIC RADIATION
NT COHERENT LIGHT
Studies of collisional and nonlinear radiative processes for development of coherent UV and XUV sources
[AD-A131837] 03 p0379 N84-12467
Generation of coherent, vacuum ultraviolet and extreme ultraviolet radiation 05 p0665 N84-14370
Coherent effects in laser spectroscopy 06 p0849 N84-15533
The evolution of spontaneous and coherent radiation in the free electron laser oscillator
[AD-A134458] 08 p1165 N84-17583
Fabry-Perot interference filters
[AD-A136511] 09 p1388 N84-19066
Generation of intense coherent soft X-ray with electron microbunches induced and frozen by lasers
[DE84-005361] 10 p1501 N84-19811
Surfatron laser-plasma accelerator: Prospects and limitations
[DE84-005497] 11 p1683 N84-20854
Theoretical studies of solids under extreme conditions
[AD-A139352] 14 p2132 N84-23778
A high-gain 35 GHz free-electron laser amplifier experiment
[AD-A139593] 14 p2151 N84-23886
Study of VUV generation by coherent resonant frequency mixing in metal vapors
[AD-A140800] 17 p2683 N84-26989
Coherent integration 17 p2695 N84-27162
A note on the use of coherent integration in periodogram analysis of MST radar signals 17 p2695 N84-27163
Long range coherence in free electron lasers
[NASA-CR-173678] 18 p2845 N84-28066
New adaptive processor for coherent signals and interference
[AD-A142638] 20 p3273 N84-30776
Eye safe laser transmitter
[AD-D011145] 22 p3597 N84-32779
Free charged particle behavior in intense laser fields
[DE84-013700] 22 p3653 N84-33160
Tapered-wiggler free-electron laser oscillator program
[AD-A144053] 23 p3755 N84-33799

COHERENT SCATTERING
Coherent scattering of light into high frequency radiowaves
[AD-A130691] 01 p0066 N84-10431
New method in elementary particle detection
[AD-A131238] 01 p0142 N84-10932
Observations of the upper troposphere and lower stratosphere using the urbana coherent-scatter radar
[NASA-CR-174594] 03 p0407 N84-12664
Coherent electromagnetic wave propagation and scattering in random media
[AD-A133601] 06 p0825 N84-15381
CARS studies of nitramine lova propellant combustion
[AD-A135813] 09 p1280 N84-18357
New method in elementary particle detection
[AD-A144057] 23 p3822 N84-34240

COHERENT SOURCES
U COHERENT RADIATION
U RADIATION SOURCES

COHERENT TRANSMISSION
U COHERENT RADIATION

COHESION
Workshops for management of combat stress
[AD-P003263] 18 p2907 N84-28439

COHOMOLOGY
U HOMOLOGY

COKE
Electrographite electrodes from coal tar pitch super needle coke for electric steel manufacturing
[BMFT-FB-T-83-067] 02 p0197 N84-11281

COLD ACCLIMATIZATION
Criteria of human cold adaptation 18 p2897 N84-28381

COLD CATHODE TUBES
NT PHOTOMULTIPLIER TUBES
NT PHOTOTUBES
Investigation of cold cathode and RF excitation for long life CO2 waveguide lasers
[AD-A136088] 09 p1323 N84-18643
Breakdown processes in large-area cold-cathode vacuum triodes
[DE84-014026] 22 p3602 N84-32817

COLD CATHODES
Cold-cathode gas-discharge modulator power tube 21 p3379 N84-31443

COLD FLOW TESTS
Plume base flow simulation technology 01 p0018 N84-10116
On some flow characteristics of conventional and excited jets
[NASA-TM-83503] 04 p0594 N84-13922
Interaction of two-dimensional transverse jet with a supersonic mainstream
[NASA-CR-175446] 11 p1602 N84-20492
Fluid-dynamically coupled solid propellant combustion instability - cold flow simulation 13 p1945 N84-22644
Direct measurement of high frequency solid propellant response functions 13 p1945 N84-22649

COLD FORMING
U COLD WORKING

COLD FRONTS
Effect of diabatic and frictional processes on frontal circulations
[PB84-104074] 08 p1193 N84-17778
On the role of the baroclinic structure in extratropical cyclone development: A case study 11 p1684 N84-20987
On the structure of the narrow cold-frontal rainband 16 p2532 N84-26254

COLD GAS
The behavior of cold gas in spheroidal galactic potentials 02 p0306 N84-12010

COLD HARDENING
Influence of microalloying with titanium and boron on cold resistance of structural steel
[BLL-M-35698-(5828.4)] 22 p3551 N84-32483

COLD PLASMAS
Colored bubbles: An experiment for triggering equatorial spread F 05 p0640 N84-14212
Plasma composition and structure characterization of an ionospheric barium cloud 05 p0640 N84-14213
Creating unstable velocity-space distributions with barium injections 05 p0640 N84-14214
Thermal and electrical interaction of tantalum with a low temperature chemically active plasma flow
[NASA-TM-77374] 06 p0920 N84-15980
The preparation of low-loss optical fiber with microwave plasma activated chemical vapor deposition process
[AD-A134260] 07 p1076 N84-16994
The DC electric field in space: Direct measurements and inferences from cold plasma drifts 08 p1117 N84-17264
Regular and stochastic motions of charged particles in electrostatic waves
[IPF-83-7] 14 p2223 N84-24341
Space resolved absolutely calibrated VUV spectroscopic measurements on CTX
[DE84-007490] 20 p3304 N84-30964
Low temperature epitaxial deposition of silicon by plasma enhanced CVD (Chemical Vapor Deposition)
[AD-A143208] 22 p3662 N84-33216
Temporal evolution of whistler growth in a cold plasma injection experiment
[NASA-CR-173972] 23 p3828 N84-34280

COLD PRESSING
Comparative studies of vapor and liquid-phase impregnation of porous silicon nitride and silicon carbide materials
[DE84-012867] 21 p3359 N84-31309

COLD ROLLING
Stability of mechanical properties of cold-drawn rolled metal with high-temperature thermomechanical treatment
[BLL-M-35292-(5828.4)] 06 p0803 N84-15233
Selection of a mineral-base lubricant for the cold rolling of aluminum strip 15 p2401 N84-25412
Cold working and annealing effects on the creep and rupture resistance of the oxide-dispersion-strengthened alloy MA754
[AD-A141438] 19 p2993 N84-28969

COLD STRENGTH
Investigations made to improve the cold-cracking and the fracture behavior of welded joints in high-strength structural steels
[BMFT-FB-T-84-034] 16 p2466 N84-25803

COLD SURFACES
Theoretical studies of solids under extreme conditions
[AD-A139352] 14 p2132 N84-23778

COLD TOLERANCE
Effects of acute cold exposure on submaximal endurance performance
[AD-A132581] 05 p0712 N84-14865
Arctic personnel effects
[AD-A134892] 08 p1201 N84-17829
Autonomic influences on peripheral circulatory and thermal responses to cold
[AD-A134444] 08 p1201 N84-17831
USSR report: Life sciences, biomedical and behavioral sciences
[JPRS-UBB-84-011] 18 p2894 N84-28364
Effects of long-term exposure to low positive temperatures on cold-induced vasodilation
18 p2896 N84-28371
Effects of whole-body cold exposure on erythrocyte morphology 21 p3452 N84-31906
The effect of lesions in the preoptic-anterior hypothalamus on the reflexive responses of rats to cold stress
[AD-A144020] 23 p3805 N84-34126

COLD WALLS
U COLD SURFACES
U WALLS

COLD WATER
Analysis and summary of OTEC (Ocean Thermal Energy Conversion) cold water pipe costs
[PB83-221002] 01 p0060 N84-10392
Ocean thermal energy conversion cold water pipe at-sea test program
[PB83-221119] 01 p0060 N84-10393
OTEC (Ocean Thermal Energy Conversion) cold water pipe at-sea test program. Volume 2.F.: Environmental design criteria
[PB83-221127] 01 p0060 N84-10394
Environmental design criteria for the 1/3 scale OTEC cold water pipe at-sea test site off Honolulu, Hawaii
[PB83-221143] 01 p0060 N84-10395
Multiple steady states of buoyancy induced flow in cold water and their stability 04 p0530 N84-13487
The advection of submesoscale thermal features in the Alboran Sea Gyre
[AD-A133877] 06 p0884 N84-15749
Development of low temperature cure epoxy paint for offshore steel structures in cold areas
[NRC/CNR-TT-2078] 11 p1636 N84-20694

COLD WEATHER
Impact and vibration testing of a modified UH-1 crew seat
[AD-A130279] 01 p0117 N84-10760
An analysis of carbon monoxide emissions as a function of ambient temperature and vehicle parameters
[PB84-103829] 08 p1167 N84-17599
Cold weather goggles. 6: Effectiveness of yellow filters
[AD-A136241] 09 p1363 N84-18904
Recommendations for the conduct of physical training in cold weather
[AD-A142137] 19 p3066 N84-29449

COLD WEATHER TESTS
Cold regions instrumentation considerations
[AD-A139605] 15 p2336 N84-25024

COLD WORKING
NT COLD ROLLING
NT EXPLOSIVE FORMING
Low-temperature forming of beta titanium alloys
[NASA-CR-3706] 02 p0193 N84-11253
Cold sintering: A new powder consolidation process
[AD-A131687] 03 p0353 N84-12292
Evaluation of several high-strength copper sheet alloys
[DE83-015612] 03 p0353 N84-12298
Irradiation response in titanium-modified austenitic stainless steels prepared by rapid-solidification processing. Part 1: Microstructural response to neutron irradiation
[DE84-001298] 04 p0501 N84-13283
Improving the fatigue performance of thick aluminum alloy bolted joints by hole cold-expansion and the use of interference-fit steel bushes
[ARL-STRUC-NOTE-486] 04 p0543 N84-13578
Cold-form tapping of internal threads
09 p1292 N84-18435
Cold forming and upsetting in the fastener industry
09 p1293 N84-18445
Klystron manufacturing technology program
[AD-A135782] 09 p1309 N84-18555
The use of interference-fit bolts or bushes and hole cold expansion for increasing the fatigue life of thick-section aluminium alloy bolted joints
[AR-002-973] 09 p1329 N84-18676
The application of cold worked holes (in aircraft structures)
[NLR-TR-81120-U] 13 p2002 N84-22990
The effect of cold work on martensitic transformations in CU-ZN-AL shape memory alloys
[AD-A139975] 15 p2297 N84-24789
Analysis of deformation and stresses near cold worked holes
[NLR-TR-82113-U] 15 p2349 N84-25101
Effects of variations in coldworking repair procedures on flaw growth and structural life
[AD-A141966] 20 p3202 N84-30336
Microstructural development and control in liquid phase sintering; processing, structures and properties of cold worked metal matrix composites
[AD-A143188] 22 p3555 N84-32509
Irradiation creep of solution annealed and coldworked 316 stainless steel
[DE84-780404] 24 p3885 N84-34613

COLLAGENS
Analysis of collagen and noncollagenous proteins in bone particles fractionated by gradient density fractionation 23 p3808 N84-34144

COLLAPSE
Dynamic pulse buckling, theory and experiment. Handbook
[AD-A130910] 01 p0095 N84-10621
SRB/FWC water impact: Flexible body loads test
[NASA-CR-173786] 19 p3021 N84-29156
The post-buckling equilibrium and the dynamic collapse of complex hyperstatic pin-jointed lattices and reticulated shells 21 p3417 N84-31667

COLLECTORS
U ACCUMULATORS

COLLEGES
U UNIVERSITIES

COLLIMATION
Ion beam accelerator system
[NASA-CASE-NPO-15547-1] 07 p1071 N84-16959
Sonic levitation apparatus
[NASA-CASE-MFS-25828-1] 18 p2928 N84-28568

COLLIMATORS
Imaging of fast-neutron sources using solid-state track-recorder pinhole radiography
[DE84-001466] 05 p0685 N84-14504
Eye safe laser transmitter
[AD-D011145] 22 p3597 N84-32779
Ion source with improved primary arc collimation
[DE84-014359] 23 p3823 N84-34244

COLLINEARITY
Estimation of the ridge constant: An approach based on the condition index
[DE83-017955] 03 p0428 N84-12805
Assessment of local influence
[AD-A143002] 21 p3473 N84-32014

COLLISION AVOIDANCE
NT BEACON COLLISION AVOIDANCE SYSTEM
A subdivision algorithm in configuration space for findpath with rotation
[AD-A130565] 01 p0130 N84-10850
Performance of the collision avoidance logic during preliminary flight tests of the traffic alert and collision avoidance system (TCAS 3)
[MTR-82W238] 02 p0176 N84-11158
Airport capacity alternatives 03 p0329 N84-12149
Aircraft accident report - A. E. Staley Manufacturing Company, Inc., Canadair Challenger CL-600, N805C, Hailey, Idaho, January 3, 1983
[PB83-910405] 04 p0482 N84-13169
Airborne Intelligent Display (AID) phase 1 software development
[ATC-123] 04 p0484 N84-13181
A concept for reducing oceanic separation minima through the use of a TCAS-derived CDTI
[NASA-CR-172258] 07 p0952 N84-16177
Automated en route air traffic control algorithmic specifications. Volume 3: Flight plan conflict probe
[AD-A136795] 10 p1425 N84-19319
System safety study of minimum TCAS II (Traffic Alert and Collision Avoidance System)
[AD-A138674] 13 p1929 N84-22548
General aviation TCAS (Traffic Alert and Collision Avoidance System) avionics (GATCAS)
[AD-A139145] 14 p2104 N84-23618
Minimum operational performance standards for traffic alert and collision avoidance system (TCAS) airborne equipment, volume 1
[RTCA/DO-185-VOL-1] 16 p2445 N84-25685
Minimum operational performance standards for traffic alert and collision avoidance system (TCAS) airborne equipment, volume 2
[RTCA/DO-185-VOL-2] 16 p2445 N84-25686
Cockpit data management requirements (current technology aircraft)
[AD-A140643] 17 p2607 N84-26699
System safety in aircraft acquisition
[AD-A141492] 19 p2960 N84-28763
A 60 GHz pulse radar for detection of high voltage power lines
[BMFT-FB-W-84-013] 19 p3009 N84-29077
Path relaxation: Path planning for a mobile robot
[AD-A141779] 19 p3032 N84-29229

COLLISION PARAMETERS
NT COLLISION RATES
Use of synchrotron radiation for electron identification at high luminosity 06 p0913 N84-15935
Approximate numerical predictions of impact-induced structural responses 10 p1511 N84-19890
Dynamic resonances in the reaction of fluorine atoms with hydrogen molecules
[DE84-013240] 23 p3823 N84-34242
About the formation of particle energy spectrum by the statistical mechanism of particle acceleration: The character of particle energy gain in the statistical acceleration mechanism 24 p3993 N84-35268

COLLISION RATES
Calorimetry at L = 10/sup 33
06 p0913 N84-15931
Inversion of spectral lineshapes to yield collisional rate constants
[AD-A142661] 20 p3149 N84-29994

COLLISION WARNING DEVICES
U COLLISION AVOIDANCE
U WARNING SYSTEMS

COLLISIONAL PLASMAS
NT STRONGLY COUPLED PLASMAS
Filamentation instability associated with a relativistic beam and a finite-temperature, collisional plasma
[DE84-002303] 05 p0750 N84-14928
Long wavelength limit of interchange instabilities
[AD-A138943] 13 p2011 N84-23047
Long wavelength limit of the current convective instability
[AD-A139172] 14 p2228 N84-24358
Microtheory of collisionless shock current layers
[DE84-007500] 14 p2229 N84-24366
Influence of collisions on the magnetized ion-ion instability
[AD-A141464] 19 p3101 N84-29696
Influence of magnetic shear on the collisional current driven ion cyclotron instability
[AD-A143391] 22 p3659 N84-33191

COLLISIONLESS PLASMAS
Scale lengths in quasi-parallel shocks
[NASA-TM-85109] 03 p0407 N84-12663
Plasma beat-wave accelerator
[DE84-001601] 05 p0750 N84-14925
Nonlinear interaction of toroidicity induced drift modes
[DE84-001562] 06 p0921 N84-15987
Linear longitudinal oscillations in collisionless plasma diodes with thin sheaths. Part 2: Application to an extended pierce-type problem
[AD-A136963] 10 p1585 N84-20389
Transport of a multiple-ion species plasma in the collisionless regime in a bumpy torus
[IPPJ-657] 11 p1734 N84-21307
Renormalization theory of stationary homogeneous strong turbulence in a collisionless plasma
[DE84-006724] 12 p1910 N84-22443
Computer modeling of fast collisionless reconnection
[DE84-006714] 14 p2229 N84-24367
The interaction of large space structures with the near-Earth environment
[AD-P002115] 16 p2523 N84-26201
Boundary layers in space plasmas: A kinetic model of tangential discontinuities
[AERONOMICA-ACTA-A-280-1984]
16 p2558 N84-26406
Electrostatic drift models in toroidal geometry
[REPT-84-152] 17 p2767 N84-27569
Plasma confinement in self-consistent, one-dimensional transport equilibria in the collisionless-ion regime of EBT operation
[DE84-001861] 19 p3108 N84-29751
Electron velocity distributions near collisionless shocks
[DE84-011352] 20 p3185 N84-30235
Ion reflection, gyration, and dissipation at supercritical shocks
[DE84-011353] 20 p3303 N84-30980

COLLISIONS
NT ATOMIC COLLISIONS
NT BIRD-AIRCRAFT COLLISIONS
NT COULOMB COLLISIONS
NT INELASTIC COLLISIONS
NT IONIC COLLISIONS
NT MIDAIR COLLISIONS
NT MOLECULAR COLLISIONS
NT PARTICLE COLLISIONS
Nuclear magnetic resonance gyroscope
[AD-A130102] 01 p0083 N84-10539
Studies of collisional and nonlinear radiative processes for development of coherent UV and XUV sources
[AD-A131837] 03 p0379 N84-12467
Hazardous location identification by computer
[CSIR-TR-RF/6/81] 04 p0578 N84-13814
Collisional excitation and radiation of atoms and molecules
[AD-A134093] 05 p0743 N84-14881

Scintillation chamber operation of calorimeters for colliding beam detectors 06 p0912 N84-15927
Average vibrational energy transfer during a single collision of excited molecules with heat bath molecules [AD-A133391] 06 p0915 N84-15949
Solitary waves in water colliding head-on [AD-A135537] 08 p1220 N84-17964
A model for evaluation of satellite population management alternatives [AD-A136886] 10 p1436 N84-19386
Computer simulations of gravitational encounters between pairs of binary star systems 10 p1595 N84-20456
An intersection algorithm for moving parts 12 p1871 N84-22193
On the Bell-Szekeres solution for colliding electromagnetic waves [MATHS-RES-176] 19 p3010 N84-29078
Influence of collisions on the magnetized ion-ion instability [AD-A141464] 19 p3101 N84-29696
Kinetic processes in high pressure gases. Excited state collisions [AD-A141927] 20 p3152 N84-30016
Cosmic bombardment [DE84-011402] 20 p3319 N84-31071

COLLOCATION
Numerical evaluation of finite Fourier integrals [CSIR-TWISK-273] 07 p1060 N84-16868
A comparative survey of numerical methods for the linear generalized Abel integral equation [MC-NW-155/83] 07 p1065 N84-16915
Simulation of edge effects in electroanalytical experiments by orthogonal collocation. Part 4: Application to voltammetric experiments [AD-A136988] 10 p1455 N84-19500
Solution of dynamic optimization problems by successive quadratic programming and orthogonal collocation [AD-A137338] 10 p1563 N84-20238
Colocation stationkeeping of geostationary satellites 19 p3121 N84-29838
Results of laser ranging collocations during 1983 20 p3220 N84-30458

COLLOIDING
Properties of simulated comet mantle 13 p2076 N84-23452
Research and research needs in colloidal interactions [PB84-161231] 14 p2124 N84-23731
The role of water in slip casting [NASA-TM-77578] 14 p2134 N84-23786

COLLOIDS
NT AEROSOLS
NT FOG
Small-angle X-ray scattering study of micelle formation in mixtures of butadiene homopolymer and styrene-butadiene block copolymer [AD-A133645] 05 p0659 N84-14330
Research and research needs in colloidal interactions [PB84-161231] 14 p2124 N84-23731
Development of particle sizing for highly concentrated colloidal dispersions using photon correlation spectroscopy [BMFT-FB-T-84-117] 23 p3716 N84-33553

COLOR
NT WATER COLOR
Method for evaluating operator inputs to digital controllers [DE83-013521] 02 p0269 N84-11763
Ocean color studies from Salyut-7 05 p0633 N84-14164
Colour testing of nitrocellulose propellants by a spectrophotometric method [AD-A133091] 05 p0662 N84-14348
Color display technology in advanced fighter cockpits 06 p0772 N84-15061
Electrically controlled coloration of materials [AD-A133420] 06 p0801 N84-15223
Displaying colors of specified chrominance on a color graphics display [AD-A133591] 06 p0896 N84-15617
Production of printing originals for multicolor printings using raster plotters working on an electrostatic basis 07 p1018 N84-16604
Correlated errors in a functional relationship: Estimation of the color term in the Period Luminosity-Color (PLC) for Long Magellanic Clouds (LMC) Cepheids 09 p1411 N84-19228
Yellow ophthalmic filters in the visual acquisition of aircraft [AD-A138536] 13 p2020 N84-23097
Dust streaks on Mars: Colors and photometry 13 p2082 N84-23489
Visible spectra of standard Navy colored flares [AD-A140342] 16 p2474 N84-25858
Color order systems for computer graphics. Part 1: Transformation of Natural Color System (NCS) data into CIELAB color space [FOA-C-53013-H2] 18 p2922 N84-28528
Optical studies of moon rock samples at various degrees of maturity 19 p2975 N84-28861
Visual clarity with a black-and-White scene [AD-A141498] 19 p3065 N84-29445
CHART and SKETCH: An interactive computer graphics program [AD-A141997] 20 p3269 N84-30744
Newly discovered effect of interaction of optical radiation and glass 21 p3482 N84-32069
Digital color space transformations 23 p3779 N84-33960
The alpha-crustacyanin, the lobster carapace astaxanthin-protein 23 p3804 N84-34122
The perception of saturation and hue on colour cathode ray tubes [AD-A143645] 23 p3811 N84-34167
Comparison of color versus black-and-white visual displays as indicated by bombing and landing performance in the 2B35 TA-4J flight simulator [AD-A144674] 24 p3857 N84-34455
Development of texture descriptions for images 24 p3914 N84-34785

COLOR (PARTICLE PHYSICS)
U QUANTUM CHROMODYNAMICS

COLOR CENTERS
NdP5O14 crystal used for miniature rangefinder [AD-A132541] 04 p0539 N84-13549
Infrared absorption spectroscopy with color center lasers [DE84-008812] 19 p2990 N84-28945

COLOR CODING
Electrophoretic recording of color images with high quality [BMFT-FB-T-83-319] 12 p1794 N84-21702
LANDSAT 4 investigations of Thematic Mapper and multispectral scanner applications — Death Valley, California; Silver Bell Copper Mine, Arizona, and Dulles Airport near Washington, D.C. [E84-10100] 13 p2004 N84-23003
Multichannel linear predictive coding of color images [AD-A142260] 19 p3008 N84-29069
An investigation of the reproduction of the general topographic map 1:200,000 in shortened scale with a digital raster data processing system 20 p3227 N84-30505
Development of color criteria for advanced displays [AD-A143246] 22 p3630 N84-33006

COLOR INFRARED PHOTOGRAPHY
Evaluation of some remote sensing techniques for oil and crop management 02 p0234 N84-11538
Land use inventory of Salt Lake County, Utah from color infrared aerial photography 1982 [E84-10015] 02 p0237 N84-11553
An operational remote sensing methodology for the detection, inventory and environmental monitoring of waste disposal sites 03 p0398 N84-12601
Inventory of Flemish forests using medium-scale Color Infrared (CIR) photography and CIR orthophotoplans as base for a forest management data bank 03 p0400 N84-12614
Remote sensing for agriculture and land use 08 p1177 N84-17668
Remote sensing for geology 08 p1177 N84-17668
Interpreting Michigan forest cover types from color infrared aerial photographs [E84-10097] 12 p1828 N84-21917
Sampling system for wheat (Triticum aestivum L) area estimation using digital LANDSAT MSS data and aerial photographs — Brazil [E84-10139] 16 p2506 N84-26087
Forest inventory using multistage sampling with probability proportional to size — Brazil [E84-10144] 16 p2507 N84-26092

COLOR PERCEPTION
U COLOR VISION

COLOR PHOTOGRAPHY
Spas color camera [NASA-CR-171739] 06 p1161 N84-17559
Method for creating synthesized images using diazo color films 19 p2978 N84-28875
Color film preservation system: Breadboard development [NASA-CR-171099] 19 p3026 N84-29194
Laser color recording unit [BMFT-FB-T-84-098] 21 p3411 N84-31633

COLOR TELEVISION
Development of new integrated concepts for digital color video processing [BMFT-FB-T-83-079] 02 p0210 N84-11375
An airborne color video insetter [AD-A132183] 04 p0484 N84-13185
Investigation of digital encoding techniques for television transmission [NASA-CR-171734] 07 p0991 N84-16421
Super 8 film scanning set by using a CCD-line [BMFT-FB-T-83-249] 10 p1483 N84-19697
New digital Integrated Circuit (IC) concept for color TV receivers [BMFT-FB-T-83-261] 10 p1488 N84-19729
On-line preprocessing of gray scale images [BMFT-FB-DV-83-004] 12 p1909 N84-22435
The present status of Clean PAL systems [BBC-RD-1984/6] 20 p3172 N84-30142

COLOR VISION
Computer symbol generator and control panel for an integrated cockpit color display information system [BMFT-FB-W-83-007] 02 p0179 N84-11169
Color perception and ATC job performance [AD-A132649] 06 p0890 N84-15781
Cold weather goggles. 6: Effectiveness of yellow filters [AD-A136241] 09 p1363 N84-18904
Nonlinear dynamics of multi-channel binocular vision [AD-A142600] 20 p3260 N84-30689

COLORADO
Height extrapolation of wind data [DE83-012974] 01 p0109 N84-10706
Study of LANDSAT-D thematic mapper performance as applied to hydrocarbon exploration [E84-10003] 02 p0235 N84-11544
Microwave remote sensing of snow experiment description and preliminary results [E84-10009] 02 p0236 N84-11547
Contribution of LANDSAT-4 thematic mapper data to geologic exploration [E84-10021] 02 p0237 N84-11557
A correlation analysis of percent canopy closure versus TMS spectral response for selected forest sites in the San Juan National Forest, Colorado [E84-10066] 06 p0665 N84-15635
Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F. Buckley ANGB, Colorado [AD-A134205] 07 p1038 N84-16730
Water resources data for Colorado, water year 1982. Volume 3: Dolores River Basin, Green River Basin, and San Juan River Basin [PB84-120146] 09 p1339 N84-18743
Water resources data for Colorado, water year 1982. Volume 2: Colorado River Basin above Dolores River [PB84-120138] 10 p1527 N84-20004
A study of personal exposure to carbon monoxide in Denver, Colorado [PB84-146125] 12 p1866 N84-22161
Evaluation of LANDSAT-D Thematic Mapper performance as applied to hydrocarbon exploration [E84-10154] 19 p3038 N84-29275
San Juan Mountains avalanche study: Evaluation and prediction of avalanche hazard, meteorological and avalanche observations [PB84-202704] 21 p3432 N84-31778
Argillic alteration associated with the Amethyst Vein System, Creede Mining District, Colorado 21 p3441 N84-31832
Results of a detailed gravity survey in the Alamosa area, Alamosa County, Colorado [DE84-012188] 21 p3444 N84-31853
Depositional history and sedimentology of upper cretaceous mancos shale and lower mesaverde group, Northwestern Colorado: Migrating shelfbar and wave-dominated shoreline deposits 23 p3796 N84-34068

COLORADO PLATEAU (US)
Application of Heat Capacity Mapping Mission data to regional geologic analysis for mineral and energy resource evaluation [E84-10076] 07 p1021 N84-16625
Seismicity of the Paradox Basin and the Colorado Plateau interior [DE84-011620] 20 p3228 N84-30516

COLORADO RIVER (NORTH AMERICA)
San Juan Mountains avalanche study: Evaluation and prediction of avalanche hazard, meteorological and avalanche observations [PB84-202704] 21 p3432 N84-31778

COLORATION
U COLOR

COLORIMETRY
Bone mineral analysis of rat vertebrae following space flight: COSMOS 1129 [AD-A133178] 07 p1042 N84-16757
Some problems in calibrating UBV photometry for effective temperature and surface gravity 15 p2422 N84-25546
Ocean Color Working Group report to ESA Observation Advisory Committee [ESA-BR-20] 23 p3785 N84-34003

The perception of saturation and hue on colour cathode ray tubes
[AD-A143645] 23 p3811 N84-34167

COLUMBIA RIVER BASIN (ID-OR-WA)
Commentary on Columbia River instream flows
[PB84-133651] 10 p1527 N84-20007

COLUMBIUM
U NIOBIUM

COLUMNS (PROCESS ENGINEERING)
Fischer-Tropsch synthesis in slurry reactors: Summary and analysis of the state of the art
[CSIR-CENG-432] 04 p0493 N84-13234
Dual adsorber-capillary column system for gas chromatographic analysis of air samples
[AD-A138305] 12 p1792 N84-21689
Analysis of the transfer function model of tray-type binary distillation columns with liquid hydraulic delay
[RR-234] 13 p1975 N84-22816
Innovative detection, separation and sampling techniques for trace analysis by gas chromatography
[AD-A140974] 16 p2611 N84-27842
Application of the finite compartment model of carbon adsorption to binary systems
[AD-A141483] 19 p2988 N84-28932
Two-stage process for conversion of synthesis gas to high quality transportation fuels
[DE84-009624] 20 p3166 N84-30108

COLUMNS (SUPPORTS)
NT TAPERED COLUMNS
Spirally-reinforced high-strength concrete columns
[PB83-223297] 01 p0059 N84-10388
Stability, vibration and passive damping of partially restrained imperfect columns
[NASA-TM-85697] 04 p0548 N84-13608
Buckling analysis of end restrained imperfect tubular beam columns 05 p0691 N84-14539
Transducer for measuring the internal forces in the columns of a frame-wall reinforced concrete structure
[PB84-119494] 09 p1319 N84-18617
Latching mechanism for deployable-restowable columns
[NASA-CASE-LAR-13169-1] 15 p2343 N84-25063
Investigation of a cylindrical inflated beam-column structure
[BU-301] 15 p2350 N84-25105
Possible interpretation of discrepancy in results of absolute gravity determination at Sevres 17 p2703 N84-27215
Formulation of stiffness matrices for elastic buckling of thin-walled open section prismatic columns
[TT-8402] 20 p3204 N84-30353
User's guide: Computer program for analysis of two-dimensional beam-columns with nonlinear supports (CBNTBM)
[AD-A143170] 21 p3466 N84-31974

COMBAT
Aeroelastic considerations in preliminary design of a military combat aircraft 02 p0172 N84-11132
Symbology verification study
[AD-A131328] 02 p0177 N84-11162
Fast Multi Purpose Combat Craft Concept (FMPCC) for a high speed naval craft
[MBB-UT-18-82-OE] 02 p0207 N84-11351
Time lapse simulation of interrelated weather conditions
[AD-A133999] 05 p0708 N84-14639
Improved dynamic models for air combat analysis
[TAE-483] 06 p0905 N84-15876
Robotic technology applied to Army mobility systems
[AD-A134728] 08 p1216 N84-17933
Surface-attack mission simulation: Preliminary scenario evaluation
[AD-A135868] 09 p1259 N84-18219
Aircraft simulator: Multiple-cockpit combat mission trainer network
[AD-A137182] 10 p1432 N84-19363
IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study bibliography
[AD-A137327] 10 p1503 N84-19825
R and M (Reliability and Maintainability) parameter analysis document IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A137328] 10 p1503 N84-19826
Artificial intelligence applications to maintenance technology working group report IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A137329] 10 p1503 N84-19827
Description and analysis of PACAM 5 (Piloted Air Combat Analysis Model) as a tactical decision aid with a user's guide for operation at NPS
[AD-A136793] 10 p1574 N84-20313
The effects of sleep loss and sustained mental work: Implications for command and control performance 11 p1697 N84-21069
An expected value air combat model simulation algorithm to predict missions performance in tactical air operations
[AD-A137851] 11 p1718 N84-21207
Educational aids in aircraft combat survivability
[AD-A139090] 13 p1931 N84-22556
A formulation and analysis of combat games
[NASA-TM-85927] 13 p1935 N84-22585
A man-machine interface concept for a state-of-art, shipboard, command/control console
[AD-P002894] 13 p1980 N84-22854
Aerodynamics of V/STOL aircraft: Performance assessment 16 p2437 N84-25635
Design and implementation of input signals for identification of pilot/aircraft models
[DFVLR-FB-84-08] 16 p2449 N84-25709
A non-dimensional analysis of cardiovascular response to cold stress. Part 1: Identification of the physical parameters that govern the thermoregulatory function of the cardiovascular system
[AD-A138710] 17 p2745 N84-27429
The Defense Nuclear Agency intermediate dose program: An overview (effects of total-body irradiation on the performance of personnel in Army combat crews)
[AD-P003253] 18 p2905 N84-28420
Workshops for management of combat stress
[AD-P003283] 18 p2907 N84-28439
The effect of component redundancy upon aircraft combat survivability
[AD-A141815] 19 p2964 N84-28784
Marine Corps ground simulator training needs in the 1985-1995 time frame
[AD-P003465] 21 p3511 N84-32242
Fiber optic helmet mounted display: A cost effective approach to full visual flight simulation
[AD-P003482] 21 p3512 N84-32249
Training the multiple-aircraft combat environment
[AD-P003495] 21 p3514 N84-32261

COMBINATORIAL ANALYSIS
NT PARTITIONS (MATHEMATICS)
NT PERMUTATIONS
Occupancy models, Bell-type polynomials and numbers and applications to probability
[AD-A130453] 01 p0136 N84-10892
Research in net management techniques for tactical data networks
[AD-A131674] 03 p0361 N84-12352
Toward a constructive physics
[DE83-016644] 04 p0594 N84-13919
Parallel algorithms in combinatorial optimization: An annotated bibliography
[MC-BW-189/93] 07 p1058 N84-16853
Scheduling theory since 1981: An annotated bibliography
[MC-BW-188/83] 07 p1068 N84-16934
The Jack Kiefer-Jacob Wolfowitz Memorial Statistical Research Conference
[AD-A136490] 09 p1381 N84-19021
On the facial structure of scheduling polyhedra
[AD-A136983] 10 p1591 N84-20427
Applications of combinatorics to the busy period in several queueing models
[AD-A142492] 20 p3284 N84-30850
On the uniqueness of a regular thin near octagon on 288 vertices (or the semibiplane belonging to the Mathieu group M12)
[MC-ZW-196/83] 21 p3476 N84-32029

COMBINED CYCLE POWER GENERATION
Combined cold compressor/ejector helium-refrigerator cycle
[DE83-017764] 04 p0515 N84-13385

COMBINED STRESS
Response of the cardiovascular system to vibration and combined stresses
[AD-A142166] 19 p3066 N84-29450

COMBUSTIBILITY
U FLAMMABILITY

COMBUSTIBLE FLOW
A review of research in chemical-acoustic coupling
[AD-A129896] 01 p0140 N84-10915
Prediction of turbulent reactive flow 15 p2293 N84-24762
Utilization of laser diagnostics to evaluate combustor models 15 p2294 N84-24767
Problem independent numerical simulation of two-phase flow in combustors 15 p2294 N84-24768
Numerical prediction of multireactive turbulent flows by a Eulerian-Lagrangian method
[ONERA-NT-1983-9] 16 p2488 N84-25959
Fuel injection device and method
[DE84-014320] 22 p3606 N84-32846

COMBUSTION
NT AFTERBURNING
NT BOUNDARY LAYER COMBUSTION
NT DEFLAGRATION
NT FUEL COMBUSTION
NT HYDROCARBON COMBUSTION
NT PROPELLANT COMBUSTION
NT SOLID PROPELLANT COMBUSTION
NT SOLID PROPELLANT IGNITION
NT SPONTANEOUS COMBUSTION
NT SUPERSONIC COMBUSTION
Data analysis of the LLNL hydrogen igniter experiments
[DE83-010260] 01 p0037 N84-10236
Gas-turbine demonstration of pyrolysis-derived fuels
[DE83-013610] 01 p0053 N84-10342
Contrast between natural and experimentally controlled fires in forced ventilated enclosures
[DE83-013036] 01 p0057 N84-10373
Combustion jet ignition 03 p0336 N84-12188
Soot formation from polycyclic aromatics
[DE83-009750] 03 p0349 N84-12271
Reverse combustion along constant geometry fissures in heterogeneous fuels 04 p0492 N84-13232
PDF: A computer program for calculation of turbulent combustion utilizing a Probability Density Function (PDF) approach
[DE84-000999] 04 p0494 N84-13240
CI: A computer program for calculation of contact indexes which will correct reaction rates evaluated by mean quantities during simulation of turbulent combustion
[DE84-001000] 04 p0494 N84-13244
The computer fire codes and required new data 04 p0513 N84-13369
Flame heights, flame radiation and flame spread 04 p0513 N84-13371
Recent progress at NBS in fire growth modeling 04 p0513 N84-13372
Response of flame spread phenomena to ambient air stream velocity changes 04 p0514 N84-13373
Proposed plan for joint research program between Japan, the USA and Canada concerning gas toxicity in fires 04 p0514 N84-13378
Experiments on mixing and combustion with low heat release in a turbulent shear flow 04 p0531 N84-13489
Computation of turbulent reacting flows: Comparison of various mixing/chemistry interaction models
[DE84-000998] 04 p0534 N84-13514
Residual shale-oil/diesel-engine operating compatibility program
[DE84-000133] 04 p0545 N84-13587
Acoustic modelling and analysis of pulsating combustion in a gas-fired pulse burner 04 p0594 N84-13921
High temperature catalytically assisted combustion
[AD-A133864] 05 p0648 N84-14259
Multiangular scanning absorption techniques for three dimensional combustion diagnostics
[AD-A133811] 05 p0648 N84-14263
Injection, atomization, ignition and combustion of liquid fuels in high-speed air streams
[AD-A133806] 05 p0648 N84-14264
PDF: A computer program for calculation of turbulent combustion utilizing a Probability Density Function (PDF) approach
[DE84-002525] 05 p0651 N84-14278
Fundamental combustion and diagnostics research at Sandia
[DE84-001787] 05 p0651 N84-14280
Shock tube study of the ignition and combustion of aluminum
[AD-A134035] 05 p0661 N84-14345
Combustion at the interface of an oxidizer-fuel slab system 06 p0800 N84-15215
Considerations on the external combustion system of the Stirling hot gas engine
[NASA-TM-77026] 08 p1123 N84-17302
Bifurcation and stability theory with application to problems of combustion and flame propagation
[AD-A135383] 08 p1124 N84-17306
Technique for the rapid generation of OH radicals behind shock waves and its application to the study of combustion kinetics
[DE84-003183] 08 p1126 N84-17317
Flammability characteristics of some epoxy resins and composites
[AD-A135282] 08 p1137 N84-17394
CARS studies of nitramine lova propellant combustion
[AD-A135813] 09 p1280 N84-18357
Fabrication and coating of selected diesel engine components for combustion durability testing
[DE84-002188] 09 p1326 N84-18662
Atomic and molecular gas phase spectrometry
[AD-A135971] 09 p1392 N84-19088
Measurement of spray combustion processes 11 p1609 N84-20530

Turbulent swirling combustion
11 p1609 N84-20535
Advanced numerics for multi-dimensional fluid flow calculations
11 p1610 N84-20539
Free stream turbulence and density ratio effects on the interaction region of a jet in a cross flow
11 p1611 N84-20546
A parametric study of ramrocket performance
[ARL-MECH-ENG-NOTE-395] 11 p1625 N84-20633
AGARD highlights
[AGARD-HIGHLIGHTS-83/1] 12 p1763 N84-21493
Applications of laser scattering probes to turbulent diffusion flames
[AD-A138207] 12 p1792 N84-21685
Simultaneous multipoint measurements of density gradients and temperature in a flame
[DE84-006832] 12 p1794 N84-21697
Vaporization of synthetic fuels
[DE84-006556] 12 p1803 N84-21755
Combustion thermodynamics of some boron-nitrogen-hydrogen compounds
13 p1951 N84-22684
Three-dimensional, primitive-variable model for solid-fuel ramjet combustion
13 p1952 N84-22688
Detailed flow measurements in fuel-rich, particle-laden plumes
13 p1952 N84-22690
Combustion performance of a vitiated air heater for a freejet test facility
13 p1952 N84-22691
Very low thrust gaseous oxygen-hydrogen rocket engine ignition technology
13 p1952 N84-22692
Three-dimensional, primitive-variable model for solid-fuel ramjet combustion
[AD-A138756] 13 p1956 N84-22715
Assessment of Alternative Aircraft Fuels
[NASA-CP-2307] 14 p2106 N84-23630
USAF shale oil program status
14 p2107 N84-23633
NASA broad-specification fuels combustion technology program
14 p2107 N84-23637
NASA/General Electric broad-specification fuels combustion technology program
14 p2107 N84-23638
Analytical fuel property effects: Small combustors
14 p2108 N84-23639
The chemistry of nitrogen compounds in combustion processes
[AD-A139539] 14 p2123 N84-23723
Flame propagation in heterogeneous mixtures of fuel drops and air
[NASA-CR-174644] 14 p2131 N84-23775
Moving finite element research for shock hydrodynamics, continuum mechanics and combustion
[AD-P002970] 14 p2201 N84-24206
Stability of plane near-equidiffusional flames without invoking the constant-density approximation
[AD-P002972] 14 p2201 N84-24208
Principles of combustion
[INPE-2759-MD/023] 15 p2286 N84-24717
Examination of frontal development during a dry forward combustion
[DE84-006304] 15 p2288 N84-24726
Soot formation in diffusion flames
15 p2291 N84-24750
Study of Deflagration-to-Detonation Transition (DDT) in fine granular explosive, CP
[DE84-009500] 15 p2305 N84-24828
A perturbation method for self-coupled combustion-instability problems
15 p2317 N84-24904
Magnetohydrodynamic power generation
[NASA-TP-2331] 15 p2409 N84-25458
Assessing the credibility of the calorific value of municipal solid waste
[PB84-175470] 16 p2474 N84-25861
Theoretical calculations of H(2) CARS spectra for propellant flames
[AD-A135818] 17 p2619 N84-26758
Prediction of thermal rate constants for combustion reaction
[AD-A140736] 17 p2619 N84-26760
Prediction of transition states and thermochemistry for combustion reactions
[AD-A140738] 17 p2619 N84-26761
Laser photoelectron spectroscopy of ions
[DE84-006932] 18 p2812 N84-27852
Advanced high temperature materials for the energy efficient automotive Stirling engine
[NASA-TM-83659] 19 p2992 N84-28963
The structure of evaporating and combusting sprays: Measurements and predictions
[NASA-CR-173778] 19 p3021 N84-29155
High pressure LOX/natural gas staged combustion technology
20 p3138 N84-29927
Experimental facilities to study hydrogen combustion and detonation
[DE84-006998] 20 p3149 N84-29997
Vortex methods and turbulent combustion
[DE84-011874] 20 p3150 N84-30004
Modeling chemical kinetic aspects of engine knock
[DE84-009874] 20 p3198 N84-30312
Computational Methods: 1984 JPM Specialist Session
[AD-A142923] 21 p3354 N84-31276
Computational hierarchy for the analysis of combustion phenomena in ramjet environments
21 p3354 N84-31277
A comparison of the efficiency of numerical methods for integrating chemical kinetic rate equations
21 p3355 N84-31280
Models for calculating reaction rates in turbulent, reacting flows
21 p3355 N84-31281
Stretch effects in plane premixed hydrogen-air flames
[DE84-012035] 21 p3360 N84-31311
Hydrogen transport, mixing, and combustion studies
[DE84-012455] 21 p3360 N84-31317
Raman spectroscopy measurements of flame quenching in a duct-type crevice, appendix B
[DE84-009326] 21 p3362 N84-31329
Gasdynamic study of model with combustion in shock tunnel
21 p3481 N84-32061
Conditions of filtration burning of porous condensed systems with multiple passage of reaction wave
21 p3483 N84-32076
A system for controlling the oxygen content of a gas produced by combustion
[NASA-CASE-LAR-13257-1] 22 p3546 N84-32447
Conditional velocity statistics in premixed CH-4-air and C-2H-4-air turbulent flames
[DE84-012257] 22 p3549 N84-32464
An experimental investigation of gas jets in confined swirling air flow
[NASA-CR-3832] 23 p3694 N84-33412
Combustion chemistry of vibrationally excited oxygen
[AD-A143791] 23 p3714 N84-33540
A theoretical model for the cross spectra between pressure and temperature downstream of a combustor
[NASA-TM-83871] 23 p3821 N84-34231
Dynamic analysis of evolutive conservative systems. Discussion of eigenmode crossings
[NASA-TM-77052] 24 p3860 N84-34462
USSR report: Chemistry
[JPRS-UCH-84-007] 24 p3867 N84-34506

COMBUSTION CHAMBERS

Linear theory of pressure oscillations in liquid fueled Ramjet engines
[AD-A130882] 01 p0011 N84-10071
Automatic combustor controller development and liquid-fuel combustor design program
[AD-A130368] 01 p0052 N84-10335
Cross spectra between pressure and temperature in a constant-area duct downstream of a hydrogen-fueled combustor
[NASA-TM-83463] 02 p0287 N84-11885
Analytical design of a liquid hydrogen fueled turbofan-ramjet engine for flight Mach numbers zero to five
03 p0336 N84-12187
Executive summary, aerothermal modeling program, phase 1
[NASA-CR-174602] 03 p0348 N84-12263
Aerothermal modeling program, phase 1
[NASA-CR-168243-VOL-1] 03 p0348 N84-12264
Aerothermal modeling program, phase 1
[NASA-CR-168243-VOL-2] 03 p0348 N84-12265
Erosive particle kinematics in the turbulent combustion boundary layer contacting a solid wall
[DE83-010594] 03 p0349 N84-12272
Optimum engine for methanol utilization
[PB83-239459] 03 p0385 N84-12507
A theoretical and experimental study of turbulent particle-laden jets
[NASA-CR-168293] 04 p0485 N84-13187
Flame radiation and liner heat transfer in a tubular-can combustor
[NASA-TM-83538] 04 p0485 N84-13188
A gas turbine combustor test facility for fuel composition investigations
[AD-A132479] 04 p0487 N84-13201
An experimental investigation of soot behavior in a gas turbine combustor
[AD-A132210] 04 p0487 N84-13202
A study of air breathing rockets. 3: Supersonic mode combustors
[NAL-TR-756] 04 p0489 N84-13213
Ceramic composite liner material for gas turbine combustors
[NASA-TM-83490] 05 p0631 N84-14145
A review of NASA combustor and turbine heat transfer research
[NASA-TM-83541] 05 p0631 N84-14146
Turbulent mixing and combustion of multi-phase reacting flows in ramjet and ducted rocket environment
[AD-A133802] 05 p0632 N84-14152
Clean catalytic combustor program
[NASA-CR-168323] 06 p0789 N84-15151
Aerothermal modeling. Executive summary
[NASA-CR-168330] 06 p0790 N84-15152
Aerothermal modeling, phase 1. Volume 1: Model assessment
[NASA-CR-168296-VOL-1] 06 p0790 N84-15155
Nonlinear acoustics instabilities in combustion chambers
06 p0802 N84-15230
Micronized coal burner facility
[NASA-CASE-LEW-13426-1] 07 p0969 N84-16276
Effects of broadened property fuels on radiant heat flux to gas turbine combustor liners
[NASA-TM-83537] 07 p1001 N84-16494
Dynamic gas temperature measurement system, volume 1
[NASA-CR-168267-VOL-1] 07 p1007 N84-16529
Prediction of an apparent flame length in a co-axial jet diffusion flame combustor
[AD-A135088] 08 p1123 N84-17303
Laser diagnostic development and measurement and modeling of turbulent flowfields of jets and wakes. Part 1: Two-dimensional laser Doppler anemometer studies of isothermal flowfield in a ducted centerbody combustor
[AD-A134691] 08 p1158 N84-17542
Laser diagnostic development and measurement and modeling of turbulent flowfields of jets and wakes. Part 2: Numerical predictions of isothermal flowfields in a ducted centerbody combustor
[AD-A134692] 08 p1159 N84-17543
Optical measurement of SO/sub 2 in combustion environments
[DE84-002927] 09 p1342 N84-18768
Flow processes in overexpanded chemical rocket nozzles. Part 1: Flow separation
[NASA-TM-77396] 10 p1450 N84-19470
Evaluation of a candidate model complex flow combustor using instantaneous two-color laser anemometry
10 p1458 N84-19521
Properties of fuels employed in a gas turbine combustor program
[AD-A136663] 10 p1470 N84-19600
Turbulence characteristics of swirling flowfields
[NASA-CR-175392] 10 p1490 N84-19744
Radiative heat transfer, Favre-averaging and turbulence closure models for combustion applications
[VTH-LR-383] 10 p1496 N84-19780
Error reduction program: A progress report
11 p1609 N84-20536
Numerical modeling of turbulent flow
11 p1610 N84-20538
Grid flexibility and patching techniques
11 p1610 N84-20540
Investigations of flowfields found in typical combustor geometries
11 p1611 N84-20544
Dilution jet experiments in compact combustor configurations
11 p1611 N84-20545
Modeling of dilution jet flowfields
11 p1611 N84-20547
Interactive computer modeling of combustion chemistry and coalescence-dispersion modeling of turbulent combustion
11 p1612 N84-20553
Liner environment effects study
11 p1613 N84-20556
Transient flow combustion 11 p1613 N84-20560
Combustor flame flashback 11 p1614 N84-20561
Fuel effects on gas turbine engine combustion
[AD-A138385] 12 p1803 N84-21753
HC quench layer formation in combustion processes
[DE84-005068] 12 p1823 N84-21883
Preliminary investigation of a two-zone swirl flow combustor
[NASA-TM-83637] 13 p1932 N84-22565
Experimental investigation of the low NO/sub x vortex airblast annular combustor
[NASA-TM-83615] 13 p1932 N84-22567
The design and development of a low emissions Transply combustor for the civil Spey engine
[PNR-90198] 13 p1934 N84-22582
La Recherche Aerospatiale, Bimonthly bulletin, number 1983-4, 215/July-August
[ESA-TT-823] 13 p1935 N84-22589
Particle sizing in a fuel rich airbreathing engine combustor
13 p1943 N84-22634
Investigation of combustion characteristics of a high chamber pressure rocket motor
13 p1952 N84-22693
Alternate fuels combustion research
[AD-A138575] 13 p1965 N84-22769
Aerodynamic effect of combustor inlet-air pressure on fuel jet atomization
[NASA-TM-83611] 13 p1989 N84-22910
Infrared temperature measurements in combustion systems
[PNR-90170] 13 p1994 N84-22942

Heat pipes to reduce engine exhaust emissions
[NASA-CASE-LEW-12590-1] 13 p1997 N84-22958
Influence of fuel chemical properties on gas turbine combustors 14 p2107 N84-23634
Fuel property effects on USN gas turbine combustors 14 p2107 N84-23636
Analytical fuel property effects: Small combustors 14 p2108 N84-23639
The NASA broad specification fuels combustion technology program at Pratt and Whitney 14 p2108 N84-23640
Monte Carlo calculations of two-dimensional combustor flows
[AD-A139589] 14 p2123 N84-23724
Combustor liner construction
[NASA-CASE-LEW-14035-1] 15 p2260 N84-24577
Combustor technology for broadened-properties fuels 15 p2289 N84-24736
Fuel effects on gas turbine combustion systems 15 p2289 N84-24737
Fuel character effects on performance of small gas turbine combustion systems 15 p2290 N84-24738
The effects of fuel composition upon heat transfer in gas turbine combustors 15 p2290 N84-24740
Alternative fuels use in a vehicular gas turbine 15 p2290 N84-24741
Design of a combustion chambers with reverse flow for small gas turbines 15 p2290 N84-24742
Detailed fuel spray analysis techniques 15 p2291 N84-24747
The design and performance of a combustor with a multiple jet primary zone 15 p2291 N84-24749
Optical measurements of soot size and number density in a complex flow, swirl-stabilized combustor 15 p2292 N84-24753
The design and development of a low emissions transply combustor for the civil Spey engine 15 p2292 N84-24755
Advanced combustor liner cooling concepts 15 p2292 N84-24756
Development of temperature-, velocity- and concentration-profiles in a curved combustor 15 p2292 N84-24757
An investigation of the interaction between multiple dilution jets and combustion products 15 p2292 N84-24758
A study of the fundamental problems of combustion in the combustion chambers of turbojets using a tubular reactor 15 p2293 N84-24759
Evaluation of multi-dimensional flux models for radiative transfer in combustion chambers: A review 15 p2293 N84-24760
Predicted TF41 performance with the AGARD research fuel 15 p2293 N84-24763
An aerodynamic study of combustion in the combustion chambers of turbomachines: Experimental and theoretical approaches 15 p2293 N84-24764
Predicting combustor efficiency and stability performances 15 p2294 N84-24765
Utilization of laser diagnostics to evaluate combustor models 15 p2294 N84-24767
Problem independent numerical simulation of two-phase flow in combustors 15 p2294 N84-24768
Development of high temperature ceramic parts for vehicular gas turbines
[BMFT-FB-T-84-006] 15 p2301 N84-24812
Electrical spray modification with various fuels in a t56 combustor
[AD-A139961] 15 p2304 N84-24824
A review of internal combustion engine combustion chamber process studies at NASA Lewis Research Center
[NASA-TM-83666] 15 p2331 N84-24999
A study of liquid hydrogen cooled LO2/LH2 rocket combustor with channel wall construction
[NAL-TR-767] 16 p2459 N84-25763
Numerical prediction of multireactive turbulent flows by a Eulerian-Lagrangian method
[ONERA-NT-1983-9] 16 p2488 N84-25959
Evaluation of thermocouple and thermal radiation instrumentation for measuring gas turbine combustor liner temperature
[NAL-TR-784] 16 p2495 N84-26009
A critical review of noise production models for turbulent, gas-fueled burners
[NASA-CR-3803] 16 p2554 N84-26384
Dilution jet mixing program
[NASA-CR-174624] 17 p2609 N84-26702
Sensitivity analysis of predicted reacting flow characteristics in solid fuel ramjet combustors
[AD-A141279] 18 p2796 N84-27740
Fuel effects on soot formation in turbojet engines
[AD-A141287] 18 p2821 N84-27912
Dilution jets in accelerated cross flows
[NASA-CR-174717] 19 p2966 N84-28794
Wall effects on combustion in an engine
[AD-A141418] 19 p2966 N84-28796
A diagnostic technique for improving combustor performance 19 p2967 N84-28800
Methane heat transfer investigation
[NASA-CR-171051] 19 p3001 N84-29018
Helicopter engine core noise 19 p3096 N84-29676
Atomization of liquid sheets in high pressure airflow
[NASA-TM-83731] 20 p3183 N84-30223
Computational hierarchy for the analysis of combustion phenomena in ramjet environments 21 p3354 N84-31277
Analysis of the effect on combustor noise measurements of acoustic waves reflected by the turbine and combustor inlet
[NASA-TM-83760] 21 p3491 N84-32122
A study of heat release rate distribution in a gas turbine combustor by acoustic measurements 22 p3536 N84-32385
A theoretical and experimental study of turbulent evaporating sprays
[NASA-CR-174760] 22 p3536 N84-32390
Rocket injector anomalies study. Volume 1: Description of the mathematical model and solution procedure
[NASA-CR-174702] 22 p3543 N84-32428
Rocket injector anomalies study. Volume 2: Results of parametric studies
[NASA-CR-174703] 22 p3543 N84-32429
Low cost thermal protection system processing
[AD-D011142] 22 p3544 N84-32434
A system for controlling the oxygen content of a gas produced by combustion
[NASA-CASE-LAR-13257-1] 22 p3546 N84-32447
Low heat loss laser combustion chamber
[AD-D011107] 22 p3600 N84-32799
Hybrid seal
[AD-D011083] 22 p3605 N84-32835
Diesel engine catalytic combustor system --- aircraft engines
[NASA-CASE-LEW-12995-1] 23 p3756 N84-33808

COMBUSTION CONTROL

Contrast between natural and experimentally controlled fires in forced ventilated enclosures
[DE83-013038] 01 p0057 N84-10373
Controlled combustion engine evaluation
[DE83-011245] 03 p0384 N84-12499
An evaluation of automated control of the oxyfuel cutting process for M1 vehicle fabrication
[AD-A134073] 05 p0688 N84-14520
Integral low-energy thermite igniter
[DE84-011082] 20 p3150 N84-29999
Thixotropic flame inhibitors for rocket propellant grains
[AD-D011081] 21 p3373 N84-31408
Research on Instrumentation, Testing and Evaluation
[DE84-014859] 23 p3727 N84-33616

COMBUSTION EFFICIENCY

EPA evaluation of the Atomized Vapor Injector device under Section 511 of the Motor Vehicle Information and Cost Savings Act
[PB83-214684] 01 p0163 N84-11072
New modeling of compartment fires and problem of flashover 04 p0513 N84-13365
Fuel effects on gas turbine combustion
[AD-A134503] 07 p0954 N84-16187
Development and demonstration of a spiral-wound thin-film composite membrane system for the economical production of oxygen-enriched air, phases 1, 2 and 3
[DE84-002918] 07 p0972 N84-16298
An experimental and analytical study on spray flow field by liquid/gas coaxial injector elements. 3: Application for the combustion performance prediction model of LO2/LH2 rocket combustion
[NAL-TR-769] 09 p1274 N84-18317
Effect of oscillations upon velocity distributions in simulated solid propellant flow environments 13 p1945 N84-22646
Three-dimensional vorticity procedure interactions in combustion instability analysis of solid propellant rocket motors 13 p1945 N84-22647
Tangential mode instability in double-base solid rocket motors: A case study 13 p1946 N84-22652
Aerodynamic effect of combustor inlet-air pressure on fuel jet atomization
[NASA-TM-83611] 13 p1969 N84-22910
Heat pipes to reduce engine exhaust emissions
[NASA-CASE-LEW-12590-1] 13 p1997 N84-22958
Recent research on the efflux of the Rolls-Royce vaporiser fuel injector 15 p2290 N84-24743
Predicted TF41 performance with the AGARD research fuel 15 p2293 N84-24763
Predicting combustor efficiency and stability performances 15 p2294 N84-24765
Utilization of alternative fuels in diesel engines
[NASA-CR-174689] 17 p2628 N84-26813
Development of carbon slurry fuels for transportation (hybrid fuels, phase 2)
[NASA-CR-174659] 19 p2992 N84-28980
Recent applications of the CONTAM 3 computer model to spacecraft propulsion systems 20 p3137 N84-29916
Organic azides as jet fuel additives: Synthesis of azides and micro-explosion characteristics of droplets 20 p3144 N84-29963
Fuel injection device and method
[DE84-014320] 22 p3606 N84-32846
Comparison of combustion efficiencies for ramjet engines
[NASA-TM-77749] 23 p3694 N84-33411
Exploratory Energy Research Program of the University of Hawaii at Manoa
[DE84-014910] 23 p3784 N84-34000

COMBUSTION HEAT

U HEAT OF COMBUSTION

COMBUSTION INSTABILITY

U COMBUSTION STABILITY

COMBUSTION PHYSICS

Los Alamos mini-review. Numerical calculations of hydrogen-air combustion
[DE83-016508] 02 p0191 N84-11240
Materials processing in space program tasks-supplement
[NASA-TM-82548] 03 p0338 N84-12196
Laser spectroscopy of propellant-like flames
[AD-A132042] 03 p0349 N84-12267
A comment on the plateau combustion mechanism of the double-base propellants
[AD-A132551] 04 p0509 N84-13333
Unconfined gas explosions --- conferences
[VKI-LS-1983-02] 06 p0835 N84-15438
Unconfined vapor cloud explosions: A review of recent theories and experiments 06 p0835 N84-15439
Identification of problem areas --- unconfined gas explosions 06 p0836 N84-15440
Flat cloud modeling --- unconfined gas explosions 06 p0836 N84-15442
Estimate of blast wave properties --- unconfined vapor cloud explosions (UVCE) 06 p0836 N84-15443
Analytical solutions for the flow field induced by a spherical flame expanding at constant velocity 06 p0836 N84-15445
Theoretical studies on heterogeneous combustion
[DE84-003178] 07 p0971 N84-16289
On the propagation laws of combustion waves in solids (pyrotechnic reactions)
[BLL-TRANS-1098-(7291.7965)] 06 p1123 N84-17300
Simplified combustion noise theory yielding a prediction of fluctuating pressure level
[NASA-TP-2237] 09 p1366 N84-19049
Combustion characteristics in the transition region of liquid fuel sprays
[NASA-CR-175396] 10 p1454 N84-19495
Evaluation of a candidate model complex flow combustor using instantaneous two-color laser anemometry 10 p1458 N84-19521
Combustion Fundamentals Research
[NASA-CP-2309] 11 p1606 N84-20525
Interactive computer modeling of combustion chemistry and coalescence-dispersion modeling of turbulent combustion 11 p1612 N84-20553
Transient flow combustion 11 p1613 N84-20560
Comprehensive assessment of the specific compounds present in combustion processes. Volume 1: Pilot study of combustion emissions variability
[PB84-140870] 11 p1630 N84-20665
Shock tube study of the fuel structure effects on the chemical kinetic mechanisms responsible for soot formation
[NASA-CR-174661] 12 p1790 N84-21677
Proceedings of the 5th Workshop on Catalytic Combustion
[PB84-145580] 12 p1794 N84-21703
La Recherche Aerospatiale, Bimonthly bulletin, number 1983-4, 215/July-August
[ESA-TT-823] 13 p1935 N84-22589
Advanced diagnostics for reacting flows 13 p1943 N84-22637
Deuterium isotope effects in HMX thermochemical mechanisms: Decomposition, deflagration, and combustion 13 p1950 N84-22680
Principles of combustion
[INPE-2759-MD/023] 15 p2286 N84-24717
A droplet evaporation rate controlled combustion model 15 p2293 N84-24761
Study of particulate formation and radiant heat loss in direct injection-type diesel engines
[PB84-160100] 15 p2344 N84-25073
Unsteady combustion of composite fuel droplets
[ONERA-NT-1983-3] 16 p2462 N84-25781

Synthesis of refractory compounds with gaseous combustion reactions
[AD-A140296] 16 p2472 N84-25842
Numerical prediction of multireactive turbulent flows by a Eulerian-Lagrangian method
[ONERA-NT-1983-9] 16 p2488 N84-25959
Properties of aircraft fuels and related materials
[AD-A141068] 19 p3001 N84-29019
Quasi-steady flames on an evolving atmosphere
[CAR-8406] 21 p3358 N84-31302
A study of the burning of a solid fuel surface in partial enclosures 23 p3712 N84-33532

COMBUSTION PRODUCTS
Experimental and theoretical study of combustion jet ignition
[NASA-CR-168139] 01 p0009 N84-10054
Evaluation of motor vehicle and other combustion emissions using short-term genetic bioassays
[PB83-233270] 01 p0112 N84-10731
Combustibility of electrical wire and cable for rail rapid transit systems. Volume 1: Flammability
[PB83-233742] 02 p0217 N84-11420
Combustibility of electrical wire and cable for rail rapid transit systems. Volume 2: Toxicity
[DOT-TSC-UMTA-83-4.2-VOL-2] 02 p0217 N84-11421
A gas turbine combustor test facility for fuel composition investigations
[AD-A132479] 04 p0487 N84-13201
Current researches on fire retardant materials in Japan 04 p0510 N84-13342
Smoke inhalation injury 04 p0511 N84-13350
Human behavior 04 p0511 N84-13351
US-Japan cooperative research on evaluation of toxicity 04 p0514 N84-13375
Physiological function of combustion gas and especially that of CN 04 p0514 N84-13376
Dependence of evolution of toxic gases on burning conditions 04 p0514 N84-13377
Inhalation toxicology. 3: Evaluation of thermal degradation products from aircraft and automobile engine oils, aircraft hydraulic fluid, and mineral oil
[AD-A133221] 06 p0889 N84-15778
Effects of broadened property fuels on radiant heat flux to gas turbine combustor liners
[NASA-TM-83537] 07 p1001 N84-16494
A computer study of detonation waves in dispersed powdered high explosives
[AD-A134226] 07 p1054 N84-16827
Inertial Upper Stage (IUS) Solid Rocket Motor (SRM) core flow sampling at high altitudes
[AD-A134997] 08 p1121 N84-17288
Combustion gas spectroscopy using tunable lasers
[DE84-004976] 08 p1126 N84-17320
Chemical and biological processes in CO/sub 2-ocean models
[DE84-003304] 08 p1182 N84-17702
Optical measurement of SO/sub 2 in combustion environments
[DE84-002927] 09 p1342 N84-18768
Properties of aerosols during a dust storm over the Beijing area
[AD-A136521] 09 p1344 N84-18783
Transient horizontal flame spread tests on cellular plastics - experimental results, volume 1
[PB84-135458] 10 p1469 N84-19595
Laboratory evaluation of novel particulate control concepts for jet engine test cells
[AD-A137641] 11 p1620 N84-20603
Products from the detonation of trinitrotoluene in air and nitrogen
[AD-A137809] 11 p1639 N84-20713
Carbon cycle research plan
[DE84-006221] 12 p1861 N84-22124
Fiberoptic probe for measuring high frequency temperature fluctuations in combustion gases
[DE84-006784] 14 p2148 N84-23869
Combustion gas properties of various fuels of interest to gas turbine engineers
[NASA-TM-83682] 15 p2261 N84-24584
An investigation of the interaction between multiple dilution jets and combustion products 15 p2292 N84-24758
Study of particulate formation and radiant heat loss in direct injection-type diesel engines
[PB84-160100] 15 p2344 N84-25073
Holographic investigation of solid propellant combustion particles
[AD-A140168] 16 p2496 N84-26016
Changing pattern of carbon dioxide emissions
[DE84-010086] 19 p3052 N84-29371
Combustion of GAP, part 1 20 p3142 N84-29952
Deposition of Na2SO4 from salt-seeded combustion gases of a high velocity burner rig
[NASA-TM-83751] 21 p3398 N84-31558
Studies in atmospheric chemistry. Part 1: Primary peroxides from hydrocarbons. Part 2: elemental analysis using nuclear reactions
[DE84-012246] 21 p3445 N84-31857
A research study of the assessment of escape impairment by irritant combustion gases in postcrash aircraft fires
[FAA-CT-84-16] 22 p3533 N84-32366
A system for controlling the oxygen content of a gas produced by combustion
[NASA-CASE-LAR-13257-1] 22 p3546 N84-32447
Expendable infrared source and method therefor
[AD-D011112] 22 p3561 N84-32551
Occupational Medicine Relevant to Aviation Medicine
[AGARD-CP-341] 22 p3631 N84-33011
A comparative study in the animal of the toxicity of the combustion products of diverse materials 22 p3632 N84-33015
An analysis of possible future atmospheric retention of fossil fuel CO-2
[DOE/OR-21400/1] 23 p3793 N84-34054

COMBUSTION STABILITY
NT FLAME STABILITY
Linear theory of pressure oscillations in liquid-fueled ramjet engines
[AD-A131610] 01 p0012 N84-10075
Mechanisms of exciting pressure oscillations in ramjet engines
[AD-A133977] 05 p0631 N84-14150
Combustion instability: Measurement of acoustic admittance in solid propellant
[INPE-2789-NTE/201] 07 p0960 N84-16352
Ignition and unsteady flame propagation in turbulent reactive flows
[AD-A136450] 09 p1279 N84-18349
Transient flow combustion 11 p1613 N84-20560
Direct measurement of high frequency solid propellant response functions 13 p1945 N84-22649
Non-steady combustion of composite solid propellants
[AD-A139182] 14 p2132 N84-23776
Predicted TF41 performance with the AGARD research fuel 15 p2293 N84-24763
Predicting combustor efficiency and stability performances 15 p2294 N84-24765
A theoretical prediction of the acoustic pressure generated by turbulence-flame front interactions
[NASA-TM-83587] 16 p2553 N84-26383
Experimental investigation of rocket motor flow-turning acoustic losses
[AD-A144168] 24 p3866 N84-34504
Analysis of combustion oscillations in heterogeneous systems
[AD-A144436] 24 p3880 N84-34583

COMBUSTION TEMPERATURE
Intracavity laser excitation of NCO fluorescence in an atmospheric pressure flame
[AD-A134740] 08 p1164 N84-17579
Investigation of organic oxidizers for high performance low flame temperature gas generator applications 13 p1950 N84-22676
Molecular beam mass spectrometer sampling of flash ignited combustion
[DE84-006771] 22 p3548 N84-32459

COMBUSTION VIBRATION
High speed photography and pulsed laser holography for diagnostic investigations of mixture formation and vibration in reciprocating engines
[DFVLR-MITT-83-18] 12 p1819 N84-21857

COMBUSTION WAVES
U FLAME PROPAGATION

COMBUSTORS
U COMBUSTION CHAMBERS

COMET HEADS
The chemical evolution of the coma of comet P/Stephan-Oterma 03 p0464 N84-13055

COMET NUCLEI
Comet nucleus sample return mission
[NASA-CR-173501] 13 p1936 N84-22592
Cometary nucleus and active regions 13 p2075 N84-23450
The study of the physics of cometary nuclei
[NASA-CR-173519] 13 p2091 N84-23543
Vibrational and rotational excitation of CO in comets. Part 1: Non-equilibrium calculations. Part 2: Results of the calculation for standard bright comet, comet Iras-Araki-Alcock and comet Halley
[NASA-TM-86122] 16 p2579 N84-26545
Ice in comet dust 18 p2949 N84-28702
Analysis of hydroxyl data from comet Austin 1982g 24 p3981 N84-35223

COMET TAILS
Interaction of the plasma tail of comet Bradfield 1979L on 1980 February 6 with a possibly flare-generated solar-wind disturbance 03 p0475 N84-13126
MHD (Magnetohydrodynamic) simulation of a comet magnetosphere
[AD-A140208] 16 p2580 N84-26546
Interaction of the plasma tail of comet Bradfield 1979L on 1980 February 6 with a possibly flare-generated solar-wind disturbance
[NASA-TM-85617] 17 p2777 N84-27832
Ion mass spectrometer
[NASA-CASE-NPO-15423-1] 18 p2838 N84-28016

COMETARY ATMOSPHERES
The chemical evolution of the coma of comet P/Stephan-Oterma 03 p0464 N84-13055
Outer satellite atmospheres: Their extended nature and planetary interactions
[NASA-CR-173395] 12 p1922 N84-22524
Search for exotic molecules in bright comets 24 p3981 N84-35222
Analysis of hydroxyl data from comet Austin 1982g 24 p3981 N84-35223

COMETS
NT COMET HEADS
NT COMET NUCLEI
NT COMET TAILS
NT HALLEY'S COMET
NT IRAS-ARAKI-ALCOCK COMET
Infrared observations of cometary solids 02 p0304 N84-11997
The chemical evolution of the coma of comet P/Stephan-Oterma 03 p0464 N84-13055
Interaction of the plasma tail of comet Bradfield 1979L on 1980 February 6 with a possibly flare-generated solar-wind disturbance 03 p0475 N84-13126
Outer satellite atmospheres: Their extended nature and planetary interactions
[NASA-CR-174579] 05 p0764 N84-15013
Part 1: Physical studies of distant comets. Part 2: Morphologies of planetary nebulae 06 p0937 N84-16091
Toward a complete inventory of stratospheric dust particles with implications and their classification 11 p1756 N84-21464
USSR report: Space
[JPRS-USP-84-002] 12 p1774 N84-21566
Interplanetary dust experiment (A0201) 15 p2277 N84-24671
Origin of amorphous interstellar grains 16 p2571 N84-26503
Brazil national report on radio astronomy (1981 - 1984)
[INPE-3052-PRE/473] 16 p2573 N84-26516
MHD (Magnetohydrodynamic) simulation of a comet magnetosphere
[AD-A140208] 16 p2580 N84-26546
A method for the estimation of small perturbations 19 p3118 N84-29617
NASA-Texas Planetary Program
[NASA-CR-173798] 19 p3121 N84-29842
Cosmic bombardment
[DE84-011402] 20 p3319 N84-31071
Geological rhythms and cometary impacts
[NASA-TM-86116] 21 p3524 N84-32327

COMFORT
Ride quality meter
[NASA-CASE-LAR-12882-1] 03 p0375 N84-12445
A user-oriented and computerized model for estimating vehicle ride quality
[NASA-TP-2299] 12 p1866 N84-22162
Cognitive performance change during a 6-hour hike at low temperature in simulated rain, at controlled walking rates
[AD-A138358] 13 p2020 N84-23100
Annoyance ratings for impulse and traffic sounds at two different background noise levels
[IZF-1983-27] 17 p2725 N84-27945
Improving comfort of welders by reducing preheating temperatures — steel welding
[CETIM-12-Y-413] 21 p3414 N84-31651
Combined effect of noise and vibration on passenger acceptance
[NASA-TM-86284] 23 p3810 N84-34161

COMMAND AND CONTROL
AGARD Bulletin, technical programme, 1984
[AGARD-BUL-83/2] 01 p0002 N84-10010
Sensor correlation and data fusion theory
[AD-A131510] 01 p0134 N84-10875
Integrated command, control, communication and computation system design study. Summary of tasks performed
[NASA-CR-170611] 02 p0209 N84-11361
The development and application of an advanced computer-based shared-graphic workstation for video teleconferencing
[AD-A132583] 04 p0579 N84-13817
C-3I local area networks: An assessment
[AD-A134194] 07 p0992 N84-16431

Spacecraft command-measurement complex
09 p1264 N84-18258
Program approach document
[AD-A135886] 09 p1300 N84-18501
Artificial intelligence applied to the command, control, communications and intelligence of the US Central Command
[AD-A137205] 10 p1567 N84-20267
The effects of sleep loss and sustained mental work: Implications for command and control performance
11 p1697 N84-21069
The subjective function approach for analyzing systems
[RAND/P-6893] 11 p1718 N84-21206
Proceedings of the 6th MIT/ONR (Massachusetts Institute of Technology/Office of Naval Research) Workshop on C3 (Command, Control, and Communications) Systems
[AD-A138614] 13 p1977 N84-22835
Doing C2 (Command Control) experiments using war games
[AD-P002675] 13 p1977 N84-22836
A comparison of two air defense command and control models
[AD-P002676] 13 p1977 N84-22837
Lanchester's equations and game theory
[AD-P002677] 13 p1978 N84-22838
Software for explicitly probabilistic mathematics
[AD-P002681] 13 p1978 N84-22842
Command decision makers and their modes of interaction
[AD-P002682] 13 p1978 N84-22843
The effects of a spatial information format on decision making performance in a C3 (Command, Control, and Communications) probabilistic information integration task
[AD-P002687] 13 p1979 N84-22848
Tactical decision aids which quantify judgment
[AD-P002689] 13 p1979 N84-22850
A man-machine interface concept for a state-of-art, shipboard, command/control console
[AD-P002694] 13 p1980 N84-22854
Multi-sensor fusion, communications and information warfare
[AD-P002695] 13 p1980 N84-22855
Optimal file allocation problems for distributed data bases in unreliable computer networks, 2
[AD-P002913] 13 p1981 N84-22864
Human factors aspects of C3 systems — command, control, communication (C3)
[PP-119] 13 p2023 N84-23115
Generalized monitoring facility. Users manual. Change 7
[AD-A138533] 13 p2028 N84-23151
A concept for mission-oriented planning for system acquisition at the Defense Communications Agency
[AD-P002823] 13 p2061 N84-23368
Proceedings of the 1983 Symposium on Military Space Communications and Operations
[AD-A135021] 14 p2137 N84-23809
Satellite tactical communications at high altitudes
[AD-P002145] 14 p2137 N84-23810
The evolution of Air Force Space Mission Command, control and communications
[AD-P002149] 14 p2137 N84-23814
Operation of communications satellite systems during crisis and conflict
[AD-P002150] 14 p2138 N84-23815
Command Post Modem/Processor (CPM/P)
[AD-P002151] 14 p2138 N84-23816
A commonality approach to DoD command and control centers
[AD-P002153] 14 p2138 N84-23818
Distributed database performance modeling
[AD-P002157] 14 p2139 N84-23823
Development of a command control and communications system for light aircraft
[AD-A139474] 14 p2140 N84-23831
Vehicle concept for a robotic missile launcher
[AD-A141297] 18 p2802 N84-27782
Air Force Technical Objective Document (TOD) C(3)I (command, control, communications and intelligence) - fiscal year 1985
[AD-A141276] 18 p2829 N84-27961
Advanced application of the printed circuit board testability design and rating system
[AD-A141147] 18 p2834 N84-27989
Environments for evaluating performance of C3I (Command, Control, Communications, and Intelligence) systems
[AD-P003237] 18 p2902 N84-28404
A sociotechnical communications model for command and control
[AD-P003238] 18 p2902 N84-28405
User-system interface design in system acquisition
[AD-A140956] 18 p2943 N84-28664
Program master plan
[AD-A141554] 19 p3005 N84-29049
Assessing and displaying the effects of elevated trapping layers in support of Navy command and control
[AD-A142216] 19 p3008 N84-29085
Graphics language, version 2.2
[AD-A142438] 20 p3272 N84-30772
Hierarchial command, control and coupled bilinear systems
[AD-A142401] 20 p3280 N84-30823
Advanced technology for SAM systems analysis, synthesis and simulation 21 p3350 N84-31249
Cronus, A distributed operating system: Functional definition and system concept
[AD-A142795] 21 p3462 N84-31950
Sensor correlation and data fusion theory
[AD-A143587] 22 p3649 N84-33133
Large screen display technology survey
[AD-A144222] 24 p3902 N84-34711
C3I (Command, Control, Communications and Intelligence) information systems internetwork study
[AD-A144271] 24 p3942 N84-34958
Information systems: The challenge of the future for the Air Force Communications Command
[AD-A144277] 24 p3969 N84-35129

COMMAND GUIDANCE
Computer simulated development of a command to Line-of-Sight missile using on-off control
[AD-A140041] 15 p2280 N84-24697

COMMAND LANGUAGES
NT QUERY LANGUAGES
A user-oriented microprocessor shell command language interpreter
[AD-A136809] 10 p1563 N84-20242
Considerations on command and response language features for a network of heterogeneous autonomous computers
[NASA-TM-86089] 18 p2923 N84-28535

COMMAND SYSTEMS
U COMMAND GUIDANCE

COMMAND-CONTROL
U COMMAND AND CONTROL

COMMANDS
Efficient demand-driven evaluation (2)
[AD-A133879] 05 p0727 N84-14776
Writing TSO (Time Sharing Option) commands in FORTRAN
[AD-A136584] 09 p1367 N84-18925

COMMERCE
Transfer of civil meteorological satellites
[H-REPT-98-509] 08 p1113 N84-17238
Space Station commercial user development
[NASA-CR-173688] 18 p2798 N84-27756
Space station needs, attributes and architectural options. Volume 3, task 1: Mission requirements
[NASA-CR-173712] 18 p2806 N84-27811
Ada (trademark) for business and other non-DOD applications
[AD-P003425] 20 p3271 N84-30757
Commentary on Philips R and D strategy, policies, major efforts 24 p3892 N84-34647

COMMERCIAL AIRCRAFT
NT A-300 AIRCRAFT
NT BOEING 707 AIRCRAFT
NT BOEING 727 AIRCRAFT
NT BOEING 737 AIRCRAFT
NT BOEING 747 AIRCRAFT
NT CV-990 AIRCRAFT
NT DC 10 AIRCRAFT
NT EUROPEAN AIRBUS
NT IL-62 AIRCRAFT
NT JETSTREAM AIRCRAFT
NT L-1011 AIRCRAFT
NT LEAR JET AIRCRAFT
Temperature histories of commercial flights at severe conditions from GASP data
[NASA-CR-168247] 02 p0175 N84-11152
APU in commercial airline operation
03 p0334 N84-12173
Census of US civil aircraft
[PB83-252460] 04 p0478 N84-13147
Reduced stability in a modern commercial aircraft and center of gravity control
[MBB-UT-22-82-OE] 05 p0632 N84-14156
Census of US Civil aircraft. Calendar year 1982
[AD-A133161] 06 p0768 N84-15033
The man-machine interface in new generation commercial aircraft 06 p0777 N84-15096
Semiannual report to Congress on the effectiveness of the civil aviation security program
[AD-A134860] 08 p1100 N84-17156
Airport activity statistics of certificated route air carriers
[AD-A137418] 10 p1424 N84-19313
Research opportunities for future commercial transports 11 p1619 N84-20594
Turboprop engine design concepts
[PNR-90181] 13 p1933 N84-22576
Analysis of fuel system technology for broad property fuels 14 p2108 N84-23644
Economic impact of fuel properties on turbine powered business aircraft 14 p2109 N84-23648
Cost of corrosion for commercial aviation
16 p2436 N84-25624
Requirements, applications, and results of strapdown inertial technology to commercial airplanes
16 p2447 N84-25695
Development of lightweight commercial aircraft windshields with new high strength glasses
[AD-P003190] 17 p2590 N84-26603
Aircraft seat fire blocking layers. Effectiveness and benefits under various scenarios
[AD-A140796] 17 p2603 N84-26681
An analysis of national aviation policy with respect to America's strategic airlift capability
[AD-A141308] 18 p2946 N84-28679
Aircraft surface coatings
[NASA-CR-165926] 19 p2963 N84-28778
Decision analysis model for passenger-aircraft fire safety with application to fire-blocking of seats
[AD-A142477] 20 p3127 N84-29859
Fuel savings potential of the NASA Advanced Turboprop Program
[NASA-TM-83736] 20 p3130 N84-29878
A comparison of simulator procurement/program practices: Military versus commercial
[AD-P003453] 21 p3509 N84-32230
Minimum-fuel, 3-dimensional flightpath guidance of transfer jets
[NASA-TP-2326] 22 p3537 N84-32394
The high altitude pollution program (1976 - 1982)
[AD-A144390] 24 p3917 N84-34800

COMMERCIAL AVIATION
U CIVIL AVIATION
U COMMERCIAL AIRCRAFT

COMMERCIAL ENERGY
County-level wind resource estimates for DOE Region 5
[DE84-000009] 04 p0568 N84-13744
Guidelines for evaluation of commercial fossil fuels gasification concepts
[PB84-132570] 09 p1291 N84-18429
Heat recovery subsystem and overall system integration of fuel cell on-site integrated energy systems
[NASA-CR-168309] 11 p1673 N84-20915
Active Program Research Requirements (APRR), volume 1
[DE84-002141] 12 p1921 N84-22513
Solar and internal gain adjustments in calculation of energy conservation savings
[DE83-011983] 16 p2512 N84-26119
The predicted impact of linear roof apertures on the energy performance of office buildings
16 p2514 N84-26133
The DOE passive solar commercial buildings program: Preliminary results of performance evaluation
16 p2515 N84-26141
Field instrumentation for the passive solar commercial buildings monitoring program 16 p2515 N84-26142
Thermal effects resulting from occupant behavior and building operation 16 p2515 N84-26143
Do users ruin design intentions?
16 p2515 N84-26144
On solar thermal electric power capacity sizing
18 p2872 N84-28236

COMMERCIAL SPACECRAFT
NT RCA SATCOM SATELLITES
Space Station needs, attributes and architectural options. Volume 2, book 1, part 3: Manned Space Station relevance to commercial telecommunications satellites
[NASA-CR-173314] 09 p1270 N84-18298
The advisability of competitive international satellites
[AD-A140188] 16 p2456 N84-25750
Commercial Space Launch Act
[H-REPT-98-816] 23 p3835 N84-34329
NASA authorization for fiscal year 1985
[GPO-32-363] 24 p3969 N84-35133

COMMINUTION
NT CRUSHING
NT GRINDING (COMMINUTION)

COMMITTEE ON SPACE RESEARCH
Report presented by the European Space Agency to the 25th COSPAR meeting
[ESA-SP-1061] 19 p2979 N84-28885

COMMODITIES
Lead 19 p2992 N84-28959
Fluorspar 19 p3053 N84-29375

COMMONALITY
Space Station needs, attributes and architectural options. Volume 2, book 2, part 1: Mission implementation concepts
[NASA-CR-173316] 09 p1270 N84-18300

The Spacelab Atmosphere Storage and Control Section (ASCS) and its orbiter common hardware flight performance 10 p1443 N84-19427
Spacelab/Orbiter atmosphere revitalization subsystem commonality and flight experience 10 p1443 N84-19428

COMMUNICATING
NT AIRCRAFT COMMUNICATION
NT CONVERSATION
NT GROUND-AIR-GROUND COMMUNICATION
NT INFORMATION DISSEMINATION
NT MESSAGES
NT SELECTIVE DISSEMINATION OF INFORMATION
NT VERBAL COMMUNICATION
Toward an interpersonal paradigm for superior-subordinate communication
[AD-A135863] 10 p1551 N84-20166
Aerospace research and technology in Germany 12 p1763 N84-21500
Strategies and mechanisms for the diffusion of scientific and technical information: A comparative study 13 p2067 N84-23406
Human-computer interactions and decision behavior
[AD-A139759] 15 p2384 N84-25299
The impact of communicating through computers 17 p2750 N84-27457
Algebra of communicating processes with abstraction
[CWI-CS-R8403] 17 p2754 N84-27485
Top-down design and the algebra of communicating processes
[CWI-CS-R8401] 17 p2756 N84-27495
The role of information technology in emergency management
[GPO-29-457] 23 p3834 N84-34319
Planetary Data Workshop, part 2
[NASA-CP-2343-PT-2] 23 p3842 N84-34376
Networking 23 p3843 N84-34381

COMMUNICATION
NT FACSIMILE COMMUNICATION
NT INFORMATION DISSEMINATION
NT LINE OF SIGHT COMMUNICATION
NT OPTICAL COMMUNICATION
NT UNDERWATER COMMUNICATION
NT VERBAL COMMUNICATION
Natural language communication with machines: An ongoing goal
[AD-A131320] 02 p0278 N84-11820
System hardware for the implementation of frame protocol in packet switched networks
[FUB-58-1981] 05 p0731 N84-14803
Network communications for a distributed avionics system 06 p0771 N84-15052
Low rate transmission of video signals using adaptive delta modulation
[AD-A133145] 06 p0823 N84-15363
Computer communications with Mauna Loa Solar Observatory
[PB84-137256] 11 p1705 N84-21114
Exhaust plume induced fluctuations in the index of refraction at optical wavelengths 13 p1941 N84-22624
Development of a generalized human-machine interface
[AD-P002688] 13 p1979 N84-22849
Transmitting two-level balanced code within the bandwidth of straight binary code-transmission 13 p2039 N84-23231
Reporting of indication data
[FOA-C-30352-E] 15 p2407 N84-25446
Improving the legibility of computer printouts
[BMFT-FB-DV-84-001] 16 p2542 N84-26315
National Aeronautics and Space Administration 16 p2568 N84-26481
Analysis of housekeeping radiolinks satellite/ground station
[INPE-3097-NTE/217] 17 p2652 N84-26957
West Europe report: Science and technology. FRG: Concept paper on microelectronics, communications technology
[JPRS-WST-84-023] 18 p2835 N84-27996
Office automation: A look beyond word processing
[AD-A132764] 18 p2944 N84-28670
Understanding a technical language: A schema-based approach
[NASA-TM-85868] 19 p3070 N84-29478
Computer graphics support service
[DE84-010001] 19 p3079 N84-29540
Acoustical communications by means of small explosive charges
[DE84-008803] 20 p3175 N84-30161
Integrated CNI (Communication Navigation and Identification) avionics and future standardization
[AD-P003580] 21 p3339 N84-31185
USSR report: Electronics and electrical engineering
[JPRS-UEE-84-008] 21 p3376 N84-31427
Proceedings of the 5th Interservice-Industry Training Equipment Conference, volume 2
[AD-A142775] 21 p3515 N84-32266
The Record of Electrical and Communication Engineering Conversazione, volume 52, no. 3, February 1984
[ISSN-0385-7719] 23 p3740 N84-33707
Modernization of the US national airspace system. Foundation for the future
[AD-A144332] 24 p3853 N84-34435

COMMUNICATION CABLES
NT BEAM WAVEGUIDES
NT CIRCULAR WAVEGUIDES
NT COAXIAL CABLES
NT OPTICAL WAVEGUIDES
NT PLASMAGUIDES
NT RECTANGULAR WAVEGUIDES
NT WAVEGUIDES
Economic study of long distance optical fibre links
[FUB-38-1982] 03 p0443 N84-12908
The effect of water on the dielectric performance of a cable
[BLL-OA-TRANS-2634-(6196.3)] 04 p0524 N84-13447
Service experience of EDF 20 kV XLPe insulated cable
[BLL-OA-TRANS-2633-(6196.3)] 04 p0524 N84-13448
Radial thermomechanical behaviour
[BLL-OA-TRANS-2639-(6196.3)] 04 p0533 N84-13503
Basic EMC technology advancement for c3 systems. Volume 2A: Macromodels of op amps for CADA applications
[AD-A133861] 05 p0675 N84-14435
Activities report in communications research performed in cooperation with Higher Institute for Posts and Telegraph (ISPT) 06 p0826 N84-15384
Cylindrical v-grooved non-metallic optical fibre cable 11 p1723 N84-21242
Design and test results of optical fiber units for optical submarine cable 11 p1723 N84-21243
Metal-free cylindrical v-grooved optical cable 11 p1724 N84-21244
Design, fabrication and testing of a ruggedized fiberoptic cable 11 p1724 N84-21245
A rodent and lightning protective sheath for fiber optic cables 11 p1724 N84-21246
Material requirements for multimedia communications cable 11 p1724 N84-21248
Design of a twisted pair cable for a token passing local area network 11 p1724 N84-21249
Recent developments in mini-unit cable 11 p1725 N84-21255
Manufacture cables with low losses 11 p1725 N84-21256
A new engineering approach for cable in fire situations using halogenated polymers 11 p1726 N84-21259
Characteristics of heat and flame resistant optical fiber cables 11 p1726 N84-21260
Large scale fire test of cable installed in tunnels 11 p1727 N84-21263
Bounding of signal levels at terminations of a multiconductor transmission-line network
[AD-A139757] 15 p2329 N84-24983
Design calculations associated with the laying of submarine communication cables
[NPL-DMA(A)-76] 15 p2346 N84-25077
Rotatable electric cable connecting system
[NASA-CASE-GSC-12899-1] 19 p3011 N84-29085
Analysis of modern analog and digital communication channels from a manager's perspective
[AD-A143161] 21 p3387 N84-31494
Soldering method for cable connectors
[AD-D011103] 22 p3587 N84-32718

COMMUNICATION EQUIPMENT
NT DIGITAL SPACECRAFT TELEVISION
NT DIPLEXERS
NT RADIO RECEIVERS
NT SATELLITE TELEVISION
NT STEREOTELEVISION
NT TRANSMITTER RECEIVERS
Communications Support Processor (CSP)
[AD-A130360] 01 p0064 N84-10419
Optical cable-electrical cable hybrid transmission system. The videophone: The optical cable transmission part
[AD-A131012] 02 p0294 N84-11924
Integration of ICNIA into advanced high performance fighter aircraft 06 p0772 N84-15059
Computer science and technology: Future information processing technology, 1983
[PB83-257618] 06 p0896 N84-15820
System integration and interface transition issues
[AD-A134583] 07 p0994 N84-16442
Test Operations Procedure (TOP): Data transmission equipment
[AD-A134711] 08 p1145 N84-17449
Communication system studies for the submarine laser communications system
[AD-A135661] 09 p1301 N84-18504
EMC (electromagnetic compatibility) system test and analysis interface
[AD-A136064] 09 p1303 N84-18519
Volterra transfer functions from pulse tests for mildly nonlinear channels
[AD-A135703] 09 p1308 N84-18553
A concept for mission-oriented planning for system acquisition at the Defense Communications Agency
[AD-P002823] 13 p2061 N84-23368
Engineering aids for the design of survivable defense communications transmission capability
[AD-A140755] 17 p2653 N84-26970
Report on U.S. domestic and international telecommunications and information markets
[PB84-166362] 17 p2772 N84-27602
The assessment of nonionizing radiation hazards
[AD-P003294] 18 p2908 N84-28444
Performance of digital communications over selective fading channels
[AD-A142427] 20 p3174 N84-30158
Communication aids for the handicapped 20 p3265 N84-30715
Computer graphics enhancement for COMEL (communications electronics)
[AD-A141920] 20 p3269 N84-30741
Analysis of noise temperature of optical waveguide 21 p3377 N84-31434
Computer-based transmission monitor and control system
[PB84-202068] 22 p3639 N84-33069
Signal detection in multiple-access channels
[AD-A143796] 23 p3731 N84-33648

COMMUNICATION NETWORKS
Mobile radio alternative systems study. Volume 1: Traffic model
[NASA-CR-168062] 01 p0061 N84-10402
Simulation of systolic networks with a syntax directed solver for systems of sequence equations
[AD-A130232] 01 p0064 N84-10417
An estimate of HF/VHF surface-wave communication link reaches in the West German forest environment
[AD-A131262] 01 p0067 N84-10441
Research in network management techniques for tactical data communications networks
[AD-A131357] 02 p0209 N84-11365
Interoperability of the European Defense Communications System with TRI-service tactical communications
[PB83-240614] 02 p0211 N84-11383
Type KODEK DC modems for use in CYFRONET terminal network
[AD-A131057] 02 p0213 N84-11393
Trends in the development of teleinformatics
[AD-A131067] 03 p0359 N84-12338
Telecommunications (selected articles)
[AD-A131872] 03 p0361 N84-12346
Network design tool for EHF satellite communications networks
[AD-A131812] 03 p0361 N84-12349
Research in net management techniques for tactical data networks
[AD-A131674] 03 p0361 N84-12352
Propagation effects on satellite systems at frequencies below 10 GHz, a handbook for satellite systems design, 1st edition
[NASA-RP-1108] 04 p0517 N84-13397
A system for the simulation and evaluation of satellite communication networks
[NASA-TM-83531] 04 p0517 N84-13400
Wideband integrated Voice/Data technology
[AD-A132284] 04 p0521 N84-13421
Asymptotic optimality of shortest path routing
[AD-A132280] 04 p0521 N84-13423
NOVANET: Communications network for a control system
[DE83-013862] 04 p0523 N84-13436
Service experience of EDF 20 kV XLPe insulated cable
[BLL-OA-TRANS-2633-(6196.3)] 04 p0524 N84-13448
Radial thermomechanical behaviour
[BLL-OA-TRANS-2639-(6196.3)] 04 p0533 N84-13503
Communications network design and costing model technical manual
[NASA-CR-168236] 05 p0666 N84-14376
Communications network design and costing model programmers manual
[NASA-CR-168237] 05 p0666 N84-14377

Communications network design and costing model users manual
[NASA-CR-168238] 05 p0666 N84-14378
Defense data network subscriber interface guide
[AD-A132877] 05 p0670 N84-14406
Technical and economic analysis of the planned visual display terminal employment for the Stock Point Logistics Integrated Communications Environment (SPLICE)
[AD-A133642] 05 p0719 N84-14711
Design and implementation of software protocol in VAX/VMS using ethernet local area network
[AD-A133699] 05 p0726 N84-14778
Analysis of a network structure for algorithm testing — communication networks
[FUB-1-1983] 05 p0732 N84-14804
Review of activities, 1982 - 1983
[ISSN-0314-1357] 05 p0766 N84-15023
Efficient utilization of the DRAMA service channel
[AD-A133286] 06 p0823 N84-15368
Advanced teleprocessing systems
[AD-A133525] 06 p0824 N84-15375
Advanced teleprocessing systems
[AD-A133555] 06 p0825 N84-15378
Dynamic control of session input rates in communication networks
[AD-A133572] 06 p0825 N84-15379
A learning approach to routing in data communication networks
[REPT-8212] 06 p0899 N84-15834
C-3I local area networks: An assessment
[AD-A134194] 07 p0992 N84-16431
An exploratory study of the use of an inexpensive cordless telephone as a part of a data communications link — management information in hospitals
[AD-A134228] 07 p0992 N84-16432
Edge display spanning trees and recovery in data communication networks
[AD-A134378] 07 p0993 N84-16437
Urban millimeter wave propagation studies
[AD-A134465] 07 p0993 N84-16439
Defense Data Network System Test Facility (STF) recommendations
[AD-A134166] 07 p1084 N84-17048
Recommended test and evaluation and independent verification and validation actions for the Defense Data Network
[AD-A134167] 07 p1084 N84-17049
Switched-capacitor sampled-data networks with communication applications 08 p1142 N84-17429
Traffic routing in a switched regenerative satellite. Volume 1, task 3: Traffic assignment
[ESA-CR(P)-1792-VOL-1] 08 p1147 N84-17463
Traffic routing in a switched regenerative satellite. Volume 2, task 4: Review (executive summary)
[ESA-CR(P)-1792-VOL-2] 08 p1147 N84-17464
V-band integrated quadriphase modulator
[NASA-CR-175159] 08 p1149 N84-17480
A distributed procedure to detect and/or deadlock
[AD-A135459] 08 p1212 N84-17904
Model and analysis of a communication interface with distributed processing for application in a communication network by packet switching
[INPE-2773-TDL/136] 08 p1215 N84-17926
M/A-COM linkabit eastern operations
[AD-A136463] 09 p1299 N84-18490
Evaluation of a five node videoconference system and shared graphics workspace - U.S. Department of Defense, Washington, D.C.
[AD-A136483] 09 p1299 N84-18491
Interactive communication systems simulation model (ICSSM) extension
[AD-A135704] 09 p1302 N84-18509
An iteration algorithm for optimal network flows
[AD-A136183] 09 p1304 N84-18523
Analysis of reliable multicast algorithms for local networks
[AD-A135807] 09 p1369 N84-18935
Convergence theories of distributed iterative process: A survey
[AD-A135875] 09 p1382 N84-19027
Land mobile radio services: Acts of the 2nd Convention — conferences
[FUB-7-1983] 10 p1476 N84-19642
The mobile radio service in the integrated network — AXE 10 commutation system 10 p1477 N84-19652
A layered communication system for ethernet
[AD-A136799] 10 p1481 N84-19676
Protocol software for a packet voice terminal
[AD-A136938] 10 p1481 N84-19678
Applications of functional analytic and Martingale methods to problems in queueing network theory
[AD-A137748] 11 p1718 N84-21208
Field trial of composite fiber-optic overhead ground wire 11 p1720 N84-21221
Design/Process optimization of paired computer interconnecting cable for local area networks 11 p1725 N84-21251
Open systems interconnection for the defence community 11 p1750 N84-21426
Protocol standards and implementation within the digital engineering laboratory computer network (DELNET) using the universal network interface device (UNID). Part 2
[AD-A138119] 12 p1806 N84-21777
Cryptography in a communication system
[NLR-MP-82051-U] 12 p1808 N84-21787
Study of a satellite communication system for wideband communications: Executive summary
[ESA-CR(P)-1839] 12 p1809 N84-21795
An automated computer communication network protocol verification system
[AD-A138160] 12 p1881 N84-22260
Implementation of a stand alone FORTRAN version of the TOPSIM simulation package — communication systems analysis
[ESA-CR(P)-1825] 12 p1884 N84-22284
Continued development of a universal network interface device using the Intel 8086 and 8089 16-bit microprocessors
[AD-A138118] 12 p1891 N84-22319
The CARFAX road traffic information system
[BBC-RD-1984/1] 13 p1975 N84-22818
Spread spectrum networks 13 p1977 N84-22831
Spread spectrum data networks 13 p1977 N84-22832
Distributed estimation in the MIT/LL (Massachusetts Institute of Technology/Lincoln Laboratory) DSN (Distributed Sensor Networks) test-bed
[AD-P002897] 13 p1980 N84-22856
Distributed estimation systems
[AD-P002898] 13 p1980 N84-22857
Optimal file allocation problems for distributed data bases in unreliable computer networks, 2
[AD-P002913] 13 p1981 N84-22864
Local network wideband interconnection alternatives
[AD-A138604] 13 p1982 N84-22868
Some analytical aspects of the peakedness concept
[MC-BW-183/83] 13 p2037 N84-23217
Paperless solicitation and contracting
[AD-P002749] 13 p2050 N84-23296
The evolution of Air Force Space Mission Command, control and communications
[AD-P002149] 14 p2137 N84-23814
The Consolidated Space Operations Center (CSOC) communications acquisition
[AD-P002154] 14 p2138 N84-23819
Soviet military capabilities in space
[AD-P002156] 14 p2139 N84-23821
DSCS 3: Acquisition and testing 14 p2139 N84-23822
Application of a distributed routing algorithm to a packet-switched communications network
[AD-A139147] 14 p2140 N84-23828
A practical terrestrial packet radio network
[AD-A139162] 14 p2140 N84-23829
Primer on Integrated Services Digital Networks (ISDN): Implications for future global communications
[PB84-152586] 14 p2141 N84-23839
Designing efficient communication networks
[AD-A139190] 14 p2202 N84-24219
Formal specification and verification of distributed system
[AD-A139305] 14 p2203 N84-24220
Development and investigation of a high level token passing module for local communication networks — microprocessors
[HMI-B-387] 15 p2322 N84-24941
EMV norms: Introduction to the norms of electromagnetic accomodation
[MBB-UR-652-83-O] 16 p2481 N84-25910
Multiple path static routing protocols for packet switched networks
[AD-A140166] 16 p2483 N84-25919
Digitally controlled sonars
[AD-P003121] 16 p2533 N84-26262
The Pilot Land Data System: Report of the Program Planning Workshops
[NASA-TM-86250] 16 p2586 N84-26468
The ROE file system
[AD-A140497] 16 p2567 N84-26473
System requirements for a SCPC FM low capacity Earth station — Brazil
[INPE-2943-NTE/207] 17 p2652 N84-26958
Specifications for a low capacity SCPC FM Earth station
[INPE-2944-NTE/208] 17 p2652 N84-26959
Specialized common carriers: Long distance alternatives for military installations
[AD-A140596] 17 p2653 N84-26967
Defense switched network technology and experiments program
[AD-A140609] 17 p2653 N84-26968
Adaptive topological configuration of an integrated circuit/packet-switched computer network
[AD-A141309] 18 p2830 N84-27966
Development of an AFIT (Air Force Institute of Technology) ADP system network model
[AD-A141253] 18 p2917 N84-28496
Connector and cable assembly specifications for the SHAPE fiber optic network
[AD-A141280] 18 p2932 N84-28583
Study of the FAA (Federal Aviation Administration) program to modernize maintenance operations
[AD-A142295] 20 p3125 N84-29648
Elastic buffers for digital rings
[NPL-DITC-38/84] 20 p3172 N84-30143
Decentralized estimation in communication networks with delay
[AD-A142376] 20 p3174 N84-30155
Performance measurement in a distributed processing environment
[AD-A142410] 20 p3266 N84-30722
A minimum area VLSI (Very Large Scale Integrated) architecture for O(logn) time sorting
[AD-A142414] 20 p3266 N84-30723
Experimental evaluation of a high frequency radio data terminal in the ship-shore mode
[CRC-1375] 21 p3382 N84-31458
NETWORK: A user oriented, interactive, station-siting program for NOAA (National Oceanic and Atmospheric Administration) VHF weather radio
[PB84-202233] 21 p3466 N84-31978
Video noise reduction
[BBC-RD-1984/7] 22 p3571 N84-32615
IBM's token-ring LAN (Local-Area Network): A base-level communications solution
[AD-A143446] 22 p3638 N84-33063
Computer-based transmission monitor and control system
[PB84-202068] 22 p3639 N84-33069
RLE Progress Report no. 126
[RLE-PR-126] 22 p3681 N84-33336
Communication networks 22 p3683 N84-33356
Generation of two stage random graphs — telecommunication network analysis
[FI-032-TB-16] 23 p3732 N84-33654
Worldwide report: Telecommunications policy, research and development
[JPRS-TTP-84-029] 23 p3732 N84-33657
Perspectives on European satellite communications 23 p3732 N84-33659
Domestic satellite communication system to be established in China 24 p3891 N84-34635
Operational requirements for the Remote maintenance Monitoring System (RMMS)
[AD-A144218] 24 p3894 N84-34659
Millimeter wave communications
[AD-A144636] 24 p3895 N84-34660
C3I (Command, Control, Communications and Intelligence) information systems internetwork study
[AD-A144271] 24 p3942 N84-34958

COMMUNICATION SATELLITES
NT AERONAUTICAL SATELLITES
NT EUROPEAN COMMUNICATIONS SATELLITE
NT INTELSAT SATELLITES
NT L-SAT
NT MAROTS (ESA)
NT RCA SATCOM SATELLITES
NT RELAY SATELLITES
A comparison of the domestic satellite communications forecast to the year 2000
[NASA-TM-83516] 01 p0062 N84-10405
A compact Q-K/band dual frequency feed horn
[AD-A130258] 01 p0063 N84-10416
A description of the NORDA satellite remote sensing hardware/software for prospective users
[AD-A130779] 01 p0067 N84-10438
The flexural behavior of PACSAT (passive communication satellite) in orbit
[AD-A131406] 02 p0184 N84-11195
Satellite communication, part 1
[INPE-2893-PRE/417] 03 p0359 N84-12337
Network design tool for EHF satellite communications networks
[AD-A131812] 03 p0361 N84-12349
Propagation effects on satellite systems at frequencies below 10 GHz, a handbook for satellite systems design, 1st edition
[NASA-RP-1108] 04 p0517 N84-13397
A system for the simulation and evaluation of satellite communication networks
[NASA-TM-83531] 04 p0517 N84-13400
Digital communications over satellite channels 05 p0664 N84-14365

Effects of cochannel interference on QPSK systems in a nonlinear satellite channel 05 p0571 N84-14414
Earth coverage corrugated horns (44.5 GHz and 20.7 GHz)
[AD-A133241] 06 p0823 N84-15366
Long life communication satellites: Electric power supply during the eclipse period
[NASA-TM-77351] 07 p0965 N84-16253
Satellite communications for the Pacific islands. Second year report
[NASA-CR-173171] 07 p0986 N84-16388
Study to forecast and determine characteristics of world satellite communications market
[NASA-CR-168270] 07 p0991 N84-16426
Comment on direct television broadcast by satellite 09 p1265 N84-18260
Space Station needs, attributes and architectural options. Volume 2, book 1, part 3: Manned Space Station relevance to commercial telecommunications satellites
[NASA-CR-173314] 09 p1270 N84-18298
Design and development of an advanced solar array drive mechanism 09 p1294 N84-18457
BAe reaction wheels for Olympus — Olympus telecommunication satellite 09 p1297 N84-18475
Pluribus satellite IMP (Interface Message Provision) development mobile access terminal network
[AD-A136256] 09 p1298 N84-18486
Issues in satellite packet video communication
[AD-A135942] 09 p1303 N84-18515
Assessment of satellite power flux-density limits in the 2025-2300 MHz frequency range, part 1
[PB84-129402] 09 p1305 N84-18532
Preliminary tests on the u-shaped heat pipes of TV-SAT/TDF-1 10 p1440 N84-19403
Design aspects of TV-SAT/TDF-1 heat pipes 10 p1440 N84-19404
Heat pipes for the L-SAT communications module radiators 10 p1440 N84-19405
A Variable Conductance Heat Pipe (VCHP) radiator system for communications payloads 10 p1440 N84-19406
Thermal control of Telecom 1 10 p1441 N84-19413
The thermal design of L-SAT large telecommunication satellite 10 p1441 N84-19414
Broadcasting satellites at 12 GHz for Region 2: Technical characteristics
[NASA-TM-83522] 10 p1476 N84-19640
Advanced technology satellites in the commercial environment. Volume 1: Executive summary
[NASA-CR-174635-VOL-1] 11 p1621 N84-20611
Advance technology satellites in the commercial environment, volume 2
[NASA-CR-174635-VOL-2] 11 p1621 N84-20612
List of recent Soviet space launches 12 p1776 N84-21585
System feasibility study on rendezvous and docking in transfer orbit, volume 1
[PV6-13/82-VOL-1] 12 p1776 N84-21588
System feasibility study on rendezvous and docking in transfer orbit, volume 2
[PRV6-13/82] 12 p1776 N84-21589
Proceedings of the 1983 Symposium on Military Space Communications and Operations
[AD-A135021] 14 p2137 N84-23809
Satellite tactical communications at high altitudes
[AD-P002145] 14 p2137 N84-23810
Reliability in space: Program manager and user awareness
[AD-P002148] 14 p2137 N84-23813
The evolution of Air Force Space Mission Command, control and communications
[AD-P002149] 14 p2137 N84-23814
Operation of communications satellite systems during crisis and conflict
[AD-P002150] 14 p2138 N84-23815
Command Post Modem/Processor (CPM/P)
[AD-P002151] 14 p2138 N84-23816
A commonality approach to DoD command and control centers
[AD-P002153] 14 p2138 N84-23818
Soviet military capabilities in space
[AD-P002156] 14 p2139 N84-23821
A double gimballed momentum wheel for precision 3-axis attitude control 15 p2266 N84-24808
Antenna tracking mechanism for geostationary satellites 15 p2348 N84-25091
The advisability of competitive international satellites
[AD-A140188] 16 p2456 N84-25750
Satellite communication, part 2
[INPE-3107-PRE/506] 16 p2481 N84-25906
Determination of the key parameters affecting historic communications satellite trends
[NASA-TM-83633] 16 p2481 N84-25908
Secondary pattern computation of an arbitrarily shaped main reflector
[NASA-TM-85527] 16 p2481 N84-25909
National Aeronautics and Space Administration 17 p2772 N84-27804
List of recent Soviet space launches 19 p2978 N84-28880
Earth coverage corrugated horns (44.5 GHz and 20.7 GHz)
[AD-P003410] 19 p3015 N84-29114
Rebuttal to floating a satellite on microwaves
[AD-P003413] 19 p3016 N84-29117
Spectrum/orbit utilization program for geostationary satellites
[NASA-TM-83759] 20 p3172 N84-30146
The 20 and 30 GHz MMIC technology for future space communication antenna system
[NASA-TM-83745] 21 p3382 N84-31460
The 20 x 20 high speed microwave switches
[NASA-TM-83775] 22 p3575 N84-32644
Mission description document, book 2
[NAS 1.15:86652-BK-2] 23 p3698 N84-33439
Management and performance of APPLE battery in high temperature environment 23 p3738 N84-33693
The 20 GHz solid state transmitter design, impatt diode development and reliability assessment
[NASA-CR-174716] 23 p3741 N84-33715
Review of West Germany's DFS satellite telecommunications program 24 p3891 N84-34637

COMMUNICATION SYSTEMS
U TELECOMMUNICATION

COMMUNICATION THEORY
NT WORDS (LANGUAGE)
On the stability of signal detection
[AD-A138525] 12 p1808 N84-21785
Investigation of duration of multichannel sequential signal detection procedure 17 p2634 N84-26850
Decentralized system theory
[DE84-013658] 23 p3820 N84-34227

COMMUNITIES
Zoning for wind machines: A guide for Minnesota communities
[PB84-129568] 10 p1531 N84-20027
Community reaction to impulsive noise: A 10-year research summary
[AD-A141762] 19 p3052 N84-29369
M.A.N. heat pumps in industry and communities, and their efficiency 23 p3747 N84-33755

COMMUTATION
The mobile radio service in the integrated network — AXE 10 commutation system 10 p1477 N84-19652
Canonical commutation relations and Gauss' law in the temporal gauge
[PREPRINT-360] 23 p3819 N84-34216

COMMUTATORS
NT DECOMMUTATORS
The covariant classification of two-dimensional smooth commutative formal groups over an algebraically closed field of positive characteristic
[MATH-CENTRE-TRACTS-157] 08 p1223 N84-17989

COMPACTING
Shock compaction of molybdenum powder
[NASA-CR-173154] 08 p1133 N84-17369
Dynamic consolidation of ceramic powders: Practicalities, problems, and prospects
[DE84-003744] 08 p1138 N84-17404
Dynamic compaction of ceramic materials
[AD-A137257] 11 p1638 N84-20706
Shock consolidation of powders: Theory and experiment
[DE84-007273] 13 p1961 N84-22741
Fatigue evaluation of the molded T.A6V alloy isostatically compacted under heat. Summary of test number M9 505600 18 p2816 N84-27876
Dynamic powder compaction
[DE84-006133] 20 p3170 N84-30132
Investigation of shock activated sintering and shock wave consolidation of selected powder materials
[DE84-013074] 21 p3371 N84-31391
Fabrication of metallic glass structures
[DE84-014499] 23 p3725 N84-33606

COMPACTNESS
U VOID RATIO

COMPANION STARS
On the frequency of wide pairs among nearby dwarf stars 09 p1412 N84-19236

COMPARATORS
High stability buffered phase comparator
[NASA-CASE-GSC-12645-1] 07 p0996 N84-16454
Novelties in design of instruments for measuring high ac voltages 18 p2826 N84-27940
Phase modulator in 41.650 MHz
[INPE-3177-PRE/544] 21 p3391 N84-31515

COMPARISON
Comparative testing of polymer solutions. Part 1: Preliminary evaluation of a rheometrics fluids rheometer
[AD-A130688] 01 p0050 N84-10322
Directly executed languages
[AD-A130704] 01 p0122 N84-10794
Statistical correlations of surface wind data: A comparison between a National Weather Service station and a nearby aerometric network
[PB83-237263] 02 p0257 N84-11680
Why didn't Box-Jenkins win (again)?
[DE83-014043] 03 p0427 N84-12802
Diffusion and sorption of cyclohexane vapor in SBS and SBR copolymers
[AD-A132397] 04 p0506 N84-13315
The programs used to compare the predictions of some geomagnetic models with the measurements from the experiment S-331 onboard the GEOS-1 satellite
[IFSI-82-2] 05 p0705 N84-14627
A comparison study of the energetics of standing and transient eddies between two general circulation models: The GLAS Climate Model and the NCAR Community Climate Model 06 p0880 N84-15726
Comparison of IRT observed-score and true-score equatings
[AD-A133871] 06 p0891 N84-15791
Crop identification of SAR data using digital textural analysis 07 p0968 N84-16404
Some experiences with gasp-like microcomputer simulation languages in FORTRAN, Pascal, and Ada
[AD-A134543] 07 p1055 N84-16832
Accuracy considerations when using some minicomputers for scientific and engineering problems
[AD-A134141] 07 p1061 N84-16878
A statistical technique for forecasting severe weather from vertical soundings by satellite and radiosonde
[PB84-114099] 08 p1192 N84-17772
An objective waveform comparison technique
[AD-A136130] 09 p1315 N84-18596
Flow processes in overexpanded chemical rocket nozzles. Part 1: Flow separation
[NASA-TM-77396] 10 p1450 N84-19470
The influence of large-scale motion on turbulent transport for confined coaxial jets 11 p1610 N84-20542
Image dissector camera system study
[NASA-CR-171759] 11 p1656 N84-20806
Chemiluminescent/laser diode measurement technique intercomparison and captive air measurement program
[PB84-134485] 11 p1661 N84-20839
Nonparametric statistics test software package
[AD-A137170] 11 p1708 N84-21132
Clutter cancellation techniques for use in a space-based radar system
[AD-A138467] 12 p1808 N84-21784
A note on the temporal behavior of bucket hydrologies 12 p1858 N84-22103
Comparison between measured turbine stage performance and the predicted performance using quasi-3D flow and boundary layer analyses
[NASA-TM-83640] 13 p1932 N84-22564
Empirical analysis of a token ring network
[AD-A138905] 13 p2030 N84-23164
On 'Before' and 'After' cost comparisons
[AD-P002799] 13 p2056 N84-23345
A comparison of measured take-off and flyover sound levels for several general aviation propeller-driven aircraft
[AD-A139901] 15 p2404 N84-25429
Application of an optimization method to high performance propeller designs
[NASA-TM-83710] 16 p2433 N84-25607
Using comparison-based methods for predicting and designing
[AD-P003364] 18 p2913 N84-28477
Comparison of methods for calculating energy release rates
[DE84-012231] 20 p3204 N84-30350
Comparison of lightning flash rates from the PBE sensor and streak counting from the DMSP satellite
[DE84-006722] 20 p3246 N84-30602
Total aerosol volume computed from laser spectrometer particle-size data for comparison with flame photometer total-mass data
[AD-A143171] 21 p3359 N84-31306
Cogeneration Technology Alternatives Study (CTAS). Volume 2: Comparison and evaluation of results
[NASA-TM-81401] 23 p3790 N84-34038
A comparison of impedance measurement techniques in air
[AD-A143638] 23 p3821 N84-34232

COMPARTMENTATION
U COMPARTMENTS

COMPARTMENTS
NT AIRCRAFT COMPARTMENTS
NT ANECHOIC CHAMBERS
NT HYPERBARIC CHAMBERS
NT PRESSURE CHAMBERS
NT PRESSURIZED CABINS
NT TEST CHAMBERS
NT VACUUM CHAMBERS
Modeling of compartment fires
04 p0512 N84-13364
New modeling of compartment fires and problem of flashover
04 p0513 N84-13365
Thermal instability in transient compartment fire: An approach to characterize flashover and estimate its mechanisms
04 p0513 N84-13366
Recent progress at NBS in fire growth modeling
04 p0513 N84-13372
Innovative method for the thermal cycling of large spacecraft systems
24 p3861 N84-34470
COMPASSES
NT GYROCOMPASSES
NT SOLAR COMPASSES
COMPATIBILITY
NT ELECTROMAGNETIC COMPATIBILITY
NT SYSTEMS COMPATIBILITY
Improved acrylic systems for rapid runway repair
[AD-A130389] 01 p0016 N84-10103
Enhanced compressible fluids investigation
[AD-A131622] 02 p0218 N84-11428
Incentives for controlling the performance of high technology and professional employees
[AD-A134074] 06 p0933 N84-16061
The perceptual component of relationships in library networks
06 p0934 N84-16070
Surface compatibility studies of potassium perchlorate reaction with pyrotechnic fuels
[DE84-002829] 08 p1140 N84-17412
A method of measurement of behavioral factors affecting information systems design and use: An application of multidimensional scaling in uncovering individual psychological structure
06 p1239 N84-18099
Compatibility and accelerated aging study for Li(Si)/FeS/sub 2 thermally activated batteries
[DE84-006099] 12 p1813 N84-21818
Airport noise and land use compatibility at downstate Illinois airports
[PB84-177377] 17 p2611 N84-26716
The compatibility of MON-3 and 301 cryoformed stainless steel
20 p3138 N84-29924
Aircraft multiplexing system architecture and stores compatibility
[AD-P003530] 21 p3331 N84-31134
Transportability of NEBULA software
[AD-P003533] 21 p3331 N84-31137
Sodium compatibility of refractory metal alloy/304L braze joints
[DE84-012877] 21 p3368 N84-31364
Navy mobility fuels evaluation
[AD-A144171] 24 p3890 N84-34630
COMPENSATORS
Practical aspects of digital implementation of control laws
01 p0016 N84-10101
Mean-square optimal, full-order compensation of structural systems with uncertain parameters
[AD-A131276] 02 p0281 N84-11841
Real visual image compensation for head motion parallax effects as a function of object distance
[AD-A132915] 05 p0720 N84-14717
Apparatus for and method of compensating dynamic unbalance
[NASA-CASE-GSC-12550-1] 18 p2848 N84-28082
Compensating technique using one active control scheme to nullify the acummulated effect of modelling deviation
[INPE-3181-PRE/546] 21 p3471 N84-31996
Finite dimensional compensators for infinite dimensional systems with unbounded control action
[AD-A142808] 21 p3472 N84-32002
COMPETITION
Effects of load, cognitive complexity and type A on satisfaction
[AD-A134415] 08 p1203 N84-17846
Role of technology in promoting industrial competitiveness
[S-REPT-98-565] 10 p1471 N84-19605
Competitive procurements: The synergistic linkage among government, industry and academe
[AD-P002773] 13 p2053 N84-23320
Competition: An integral part of the acquisition process
[AD-P002774] 13 p2054 N84-23321
Increasing spares competition in AFLC (Air Force Logistics Center)
[AD-P002775] 13 p2054 N84-23322
Value and competition
[SNIAS-832-501-101] 15 p2416 N84-25504
Competitive assessment of the U.S. Civil aircraft industry
[PB84-154913] 15 p2419 N84-25525
International competitiveness in electronics
[PB84-170695] 16 p2568 N84-26475
COMPILATION (COMPUTERS)
U COMPILERS
COMPILER PROGRAMS
U COMPILERS
COMPILERS
Data General Corporation ECLIPSE MV/8000, AOS/VS BASIC revision 2.20
[PB83-233452] 01 p0119 N84-10776
The TRW DATACOM AWS 246, TRW COBOL, Version 8.0 (Pre-Release)
[PB83-226148] 01 p0125 N84-10814
The NCR Corporation, WS 210, NCR COBOL Release 3.0 (Pre-Release)
[PB83-226171] 01 p0125 N84-10815
Burroughs Corporation B21-6T (512K), B20 COBOL Release 3.0 (Pre-Release)
[PB83-226130] 01 p0125 N84-10816
Convergent technologies IWS 111, CT COBOL Version 8.0 (Pre-Release)
[PB83-226122] 01 p0125 N84-10817
Convergent technologies AWS 267, CT BASIC Version 8.0 (Pre-Release)
[PB83-227306] 01 p0125 N84-10818
Burroughs Corporation B21-6T (512K), B20 BASIC Release 3.0 (Pre-Release)
[PB83-227298] 01 p0126 N84-10819
Convergent technologies, IWS 111, CT FORTRAN Version 8.0 (Pre-Release)
[PB83-227280] 01 p0126 N84-10820
The TRW Datacom, AWS 267, TRW BASIC Version 8.0 (Pre-Release)
[PB83-227272] 01 p0126 N84-10821
The TRW Datacom, AWS 246, TRW FORTRAN Version 8.0 (Pre-Release)
[PB83-227264] 01 p0126 N84-10822
The NCR Corporation, Office Systems Division, WS 210, NCR FORTRAN Release 3.0 (Pre-Release)
[PB83-227256] 01 p0126 N84-10823
The NRC Corporation, Office Systems division, WS 150 16Mb, NRC BASIC Release 3.0 (Pre-Release)
[PB83-227249] 01 p0126 N84-10824
Burroughs Corporation, B21-6T (512K), B20 FORTRAN Release 2.0 (Pre-Release)
[PB83-227231] 01 p0126 N84-10825
Data General Corporation ECLIPSE C/350, AOS FORTRAN 77, revision 2.11
[PB83-233460] 01 p0126 N84-10826
Burroughs Corporation B21-6T (512K), B20 COBOL release 3.0 (Pre-Release)
[PB83-233254] 01 p0127 N84-10827
Convergent technologies, IWS 111, CT COBOL version 8.0 (Pre-Release)
[PB83-233247] 01 p0127 N84-10828
Data General Corporation ECLIPSE C/350, MP/BASIC revision 2.00
[PB83-233478] 01 p0127 N84-10829
Multi-parametric data acquisition system with DC11-C interface towards PDP 11/34
[DE82-906300] 02 p0275 N84-11798
Data General Corporation ECLIPSE C/350, AOS and AOS/VS HICOBOL revision 2.00
[PB83-233486] 02 p0275 N84-11799
Data General Corporation ECLIPSE MV/8000, AOS/VS FORTRAN 77 revision 2.11
[PB83-233262] 02 p0275 N84-11800
Digital Equipment Corporation VAX-11/750, VAX-11 BASIC V2.0
[PB83-233213] 02 p0275 N84-11801
Digital Equipment Corporation, PDP-11/24, PDP-11 BASIC-PLUS-2
[PB83-233205] 02 p0275 N84-11802
Perkin-Elmer, Perkin-Elmer 3240, FORTRAN 7 release RO5-01
[PB83-233072] 02 p0275 N84-11803
NCR Corporation, NCR 19300, ITX COBOL, release 1.0 (COBOL technical report)
[PB83-241943] 02 p0276 N84-11805
NCR Corporation, NCR 19300, NCR ITX COBOL release 1.0
[PB83-241935] 02 p0276 N84-11806
Computer Sciences Corporation UNIVAC 1100/80, CSTS BASIC - release BAS160
[PB83-237412] 02 p0276 N84-11807
Data Generation Corporation Eclipse MV/8000, AOS/VS COBOL Revision 2.14
[PB83-237396] 02 p0276 N84-11808
The TRW DATACOM AWS 246, TRW COBOL Version 8.0 (Pre-Release)
[PB83-233981] 02 p0276 N84-11810
The NCR Corporation, Office Systems Division, WS 210, NCR COBOL release 3.0 (Pre-Release)
[PB83-233718] 02 p0276 N84-11811
Northern Telecom, Incorporated NTI-585 ACOBOL/3 release 3 (COBOL technical report)
[PB83-241521] 03 p0422 N84-12758
Northern Telecom Incorporated NTI-585 XCOBOL, release 3
[PB83-241539] 03 p0422 N84-12759
Northern Telecom, Incorporated NTI-585 XCOBOL, release 3 (COBOL technical report)
[PB83-241547] 03 p0422 N84-12760
Digital Equipment Corporation VAX 11/750, VAL-11 COBOL version 2.2
[PB83-241588] 03 p0422 N84-12761
NCR Corporation NCR 9300 ITX-BASIC release 1.1
[PB83-243410] 03 p0422 N84-12762
Computer Sciences Corporation UNIVAC 1100/80 CSTS FORTRAN, release FTN148
[PB83-243428] 03 p0422 N84-12763
Digital Equipment Corporation, PDP-11/44 COBOL-81 version 2.0
[PB83-247734] 03 p0422 N84-12764
Digital Equipment Corporation COBOL-81 version 2.0 (COBOL technical report)
[PB83-247742] 03 p0423 N84-12765
Perkin-Elmer, Perkin-Elmer 3230 COBOL R07 (pre-release)
[PB83-236600] 03 p0423 N84-12766
Design and implementation of a BASIC cross-compiler and virtual memory management system for the TI-59 programmable calculator
[AD-A132172] 04 p0577 N84-13808
Digital Equipment Corporation, VAX 11/750, VAL-11 COBOL version 2.2 (COBOL technical report)
[PB83-241596] 04 p0583 N84-13851
IBM Corporation IBM4341 IBM BASIC release 1.0
[PB82-240945] 04 p0583 N84-13852
Datapoint Corporation Datapoint 8800 RMS COBOL 2.3.A
[PB83-240962] 04 p0583 N84-13853
Datapoint Corporation, Datapoint 8800, RMS COBOL 2.3.A
[PB83-241075] 04 p0583 N84-13854
Northern Telecom, Incorporated NTI-585 A COBOL/3 release 3
[PB83-241513] 04 p0584 N84-13855
Hewlett Packard HP 3000 series 40, COBOL 11/3000 version A.00.09
[PB83-254805] 04 p0584 N84-13858
Hewlett Packard HP 3000 series 40, COBOL 11/3000 version A.00.09 (COBOL technical report)
[PB83-254813] 04 p0584 N84-13859
Stratus Computer, Inc. Stratus 32, VOS COBOL release 2.5
[PB83-262378] 05 p0720 N84-14722
IBM Corporation IBM 4341, VS FORTRAN release 3.0
[PB83-257998] 05 p0720 N84-14723
Computer program development specification for Ada integrated environment. Ada compiler phases B5-AIE (1). COMP (1)
[AD-A134032] 05 p0727 N84-14773
Efficient demand-driven evaluation (2)
[AD-A133879] 05 p0727 N84-14776
FSCAN-83 report and user's manual
[AD-A132740] 05 p0729 N84-14788
TREGRM-83 report and user's manual
[AD-A132874] 05 p0729 N84-14789
The dynamics of software development project management: An integrative systems dynamic perspective
[NASA-CR-175342] 07 p1054 N84-16824
Experience with a regular expression compiler
[AD-A135202] 08 p1209 N84-17888
A demand-driven, coroutine-based implementation of a nonprocedural language
08 p1211 N84-17895
Sperry Univac, Univac 1100/80, UBASIC/BBASIC level 9R1
[PB84-113901] 08 p1214 N84-17919
Sperry Univac, Univac 1100/80, ASCII FORTRAN level 10R1A
[PB84-113893] 08 p1214 N84-17920
Four Phase Systems, Incorporated IV/90 Mod 2 COBOL '74 release BE07
[PB84-102706] 08 p1214 N84-17923
Four Phase Systems, Incorporated IV/90 Mod 2 COBOL '74 release BE07.COBOL technical report
[PB84-102714] 08 p1215 N84-17924
The extension and application of global compaction techniques for horizontal scientific code
[AD-A135794] 09 p1368 N84-18934
Burroughs Corporation, Burroughs B3955, Burroughs COBOL, version 6.7
[PB84-128446] 09 p1370 N84-18947

Harris Corporation, Harris H800, FORTRAN 77 NON-SAU, version 3.12
[PB84-128479] 09 p1370 N84-18948
Harris Corporation, Harris H800, VOS COBOL, version 3.0
[PB84-128487] 09 p1370 N84-18949
Harris Corporation, Harris H800, Harris COBOL, version 3.0
[PB84-128495] 09 p1370 N84-18950
Harris Corporation, Harris H800, FORTRAN 77 SAU, version 3.12
[PB84-128503] 09 p1371 N84-18951
Ada compiler validation summary report: ROLM Ada compiler, version 4.42 V-002
[AD-A136732] 10 p1557 N84-20199
Ada compiler validation report: Western digital STC-Ada compiler, version C1.OM V-004
[AD-A136738] 10 p1557 N84-20200
Ada compiler validation summary report: NYU Ada/Ed, version 19.7 V-001
[AD-A136759] 10 p1557 N84-20201
Ada compiler validation summary report: ROLM Ada compiler, version 4.52 V-003
[AD-A136760] 10 p1557 N84-20202
Honeywell Information Systems, DPS 8/49C, COBOL CB4.3U1 B06
[PB84-134758] 10 p1557 N84-20204
Honeywell International Systems DPS 8/70 FORTRAN-77 REL COO
[PB84-136191] 10 p1557 N84-20205
Tandem Computers, Incorporated, Tandem Nonstop 2 COBOL T9201E01
[PB84-137199] 10 p1558 N84-20206
The Pascal Plus (PAP) preprocessor: A precompiler for a language for concurrent processing on a multiprocessor system
[EUT-82-E-130] 10 p1565 N84-20254
Control Data Corporation CYBER 205 model 442 200 (G201-25)
[PB84-137421] 10 p1565 N84-20256
SDC/A Burroughs Corporation B94 CMS system CMS COBOL release 3.05
[PB84-140235] 10 p1585 N84-20257
Honeywell Information Systems DPS 6/96 COBOLR release 1.0
[PB84-137264] 11 p1705 N84-21113
An analysis of application generators
[AD-A137159] 11 p1708 N84-21131
Implementation of MACLISP on a large address space computer
[DE84-005042] 11 p1710 N84-21145
Honeywell Information Systems DPS 8/49 FORTRAN (8) FZ3.0
[PB84-138213] 11 p1710 N84-21148
Honeywell Information Systems DPS 6/96 BASIC Interpreter Release 4.0
[PB84-139765] 11 p1710 N84-21149
Burroughs Corporation B3955 Burroughs FORT77 Version 6.7
[PB84-137223] 11 p1710 N84-21150
Honeywell Information Systems DPS 8/70M MULTICS FORTRAN compiler version 10.2
[PB84-140714] 11 p1710 N84-21151
Honeywell Information Systems DPS 6/96 FORTRANA release 2.1
[PB84-141233] 11 p1711 N84-21152
Cray Research, Incorporated, Cray 1-S Cray FORTRAN (CFT) version 1.11 Bugfix 1
[PB84-141258] 11 p1711 N84-21153
ADA1: An ADA subset compiler for the AFIT syntax directed programming environment
[AD-A138027] 12 p1880 N84-22251
A generator of recursive descent parsers for LL(k) languages
[AD-A136061] 12 p1880 N84-22253
Implementation and evaluation of a core graphics system on a VAX 11/780 computer with a UNIX operating system
[AD-A138406] 12 p1882 N84-22271
Validation report IBM Corporation, IBM 5360 MODEL B24, SYSTEM/36 COBOL release 1
[PB84-149228] 12 p1885 N84-22288
D and B Computing Services, Inc., AMDAHL 470 V/8, IBM FORTRAN VS Release 3, Mod 0
[PB84-149327] 12 p1885 N84-22290
Digital Equipment Corporation, VAX 11/730, VAX-11 BASIC V2.2
[PB84-149606] 12 p1885 N84-22291
Burroughs Corporation, Burroughs B-7800, FORTRAN 77 Version III.4.1
[PB84-149913] 12 p1885 N84-22292
Honeywell Information Systems, DPS 6/96, CoBOLA Release 4.0
[PB84-150010] 12 p1886 N84-22293
IBM Corporation, IBM 5360 model B24 SYSTEM/36 COBOL Release 1
[PB84-150226] 12 p1886 N84-22294
Prime Computer, Incorporated, PRIME 750, FORTRAN-77, revision 19.3.1
[PB84-151265] 12 p1886 N84-22296
Digital Equipment Corporation, PDP-11/44, PDP-11 FORTRAN V5.0
[PB84-151273] 12 p1886 N84-22297
Validation report: Digital Equipment Corporation, VAX 11/780, PDP-11 FORTRAN V5.0
[PB84-149236] 12 p1886 N84-22298
Sperry Univac, OS/3 BASIC Version 9.0
[PB84-150218] 14 p2206 N84-24240
Data General Corporation, Eclipse MV/8000, AOS/VS HICOBOL, revision 2.01
[PB84-157346] 14 p2206 N84-24241
United Information Services, Inc., CDC CYBER 175, CDC FORTRAN 5.1
[PB84-157668] 14 p2207 N84-24245
Honeywell Information Systems, DPS 8/49, (8)BA2.3 BASIC compiler
[PB84-157296] 14 p2207 N84-24247
Intel Corporation INTEL System 86/330A, FoRTRAN 86 Release 2.1
[PB84-155134] 14 p2207 N84-24248
Prime Computer, Incorporated, Prime 750, COBOL-74 19.4, revised
[PB84-155985] 14 p2207 N84-24249
Data General Corporation, Eclipse MV/8000, AOS FORTRAN 77 2.21, revised
[PB84-156124] 14 p2207 N84-24250
COBOL technical report, United Information Services, Incorporated, CDC CYBER 175, CDC COBOL 5.3 level 552
[PB84-156587] 14 p2208 N84-24251
Wang Laboratories, Incorporated, VS-100 VS COBOL, Version 3.8.1
[PB84-156595] 14 p2208 N84-24252
COBOL technical report, Wang Laboratories, Incorporated, VS-100 VS COBOL Version 3.8.1
[PB84-156678] 14 p2208 N84-24253
Burroughs Corporation B7800, Large Systems BASIC 3.4.1
[PB84-157379] 14 p2208 N84-24254
IBM Corporation, IBM 5360 model B24, SYSTEM/36 BASIC Release 1 (5727-BL1)
[PB84-157171] 14 p2208 N84-24255
Validation summary report, United Information Services, Inc., CDC CYBER 175, CDC COBOL 5.3 level 552
[PB84-156679] 14 p2208 N84-24257
Validation summary report, Data General Corporation, Eclipse MV/8000, AOS/VS COBOL revision 2.18
[PB84-156116] 14 p2208 N84-24258
Validation summary report, NCR Corporation, NCR V8585, VRX FORTRAN version 25
[PB84-156108] 14 p2209 N84-24259
Functions in first order data bases
16 p2565 N84-26461
Burroughs Corporation, B1990-DP system, B1000 system COBOL74 release 11.0
[PB84-179241] 17 p2755 N84-27487
Gould Incorporated, Gould concept 32/87, FORTRAN 77/X32 Rel. 2.0
[PB84-175603] 17 p2755 N84-27488
Gould Incorporated, Gould Concept 32/87, FORTRAN 77+Rel.4.0
[PB84-175629] 17 p2755 N84-27489
IBM Corporation, IBM 4341, IBM BASIC/MVS release 1.0
[PB84-175611] 17 p2755 N84-27490
Software research for computer aided cartography at the Berlin Technical University 20 p3226 N84-30503
Modular Computer System, Inc. Modular NASA extended FORTRAN 78 C.1
[PB84-180231] 20 p3267 N84-30734
Burroughs Corporation, B5900, large systems COBOL74 3.4.1.
[PB84-181379] 20 p3268 N84-30735
Learning the Ada (trademark) integrated environment
[AD-P003417] 20 p3270 N84-30749
DCP (Distributed software engineering control process): Experience in bootstrapping an Ada (trademark) environment
[AD-P003424] 20 p3270 N84-30756
Burroughs Corporation B1000 system interactive, BASIC release 11.0
[PB84-180215] 20 p3275 N84-30794
Data General Corporation ECLIPSE MV/8000, MP-BASIC revision 3.00
[PB84-181361] 20 p3275 N84-30796
United Information Services, Inc. CDC Cyber 175, super BASIC version 1.0
[PB84-181387] 20 p3276 N84-30797
Gould Incorporated, Gould Concept 32/87, COBOL Release 1.4
[PB84-180249] 20 p3276 N84-30798
The evolution of the JOVIAL/J73 language from definition to use
[AD-P003518] 21 p3329 N84-31122
Object code optimization in a standard compiler
[AD-P003520] 21 p3329 N84-31124
Architectural and control considerations for a high speed signal processor implemented with an Ada (Trademark) executive
[AD-P003594] 21 p3341 N84-31199
S-1 software development and maintenance
[DE84-013071] 22 p3642 N84-33091
The development of LANAC/II language for concurrent programming
[INPE-2781-PRE/347] 23 p3813 N84-34180

COMPLEMENTARY METAL OXIDE SEMICONDUCTORS
U CMOS

COMPLETENESS
A mechanical proof of the turing completeness of pure LISP
[AD-A130625] 01 p0121 N84-10785
Notions of dependency satisfaction
[AD-A135303] 08 p1211 N84-17902
Completeness for uniformly delayed circuits
[AD-P002325] 14 p2189 N84-24116
A general method for the evaluation of degree of completeness
[AD-P002354] 14 p2192 N84-24145
Three-valued logic and its application to the query language of incomplete information
[AD-P002355] 14 p2192 N84-24146

COMPLEX COMPOUNDS
Intercalate phonon densities of states for alkali-graphite compounds
[DE83-016515] 02 p0188 N84-11225
Study of the interaction of organomagnesium compounds with the salts of heavy metals and the use of organomagnesium compounds and their complexes as initiators of polymerization
[BLL-M-28720-(5828.4)] 02 p0198 N84-11292
The chemistry of transition metal carbene complexes
[AD-A133541] 06 p0801 N84-15225
Synthesis and characterization of binuclear Schiff base complexes of nickel, copper, and manganese
[AD-A135493] 08 p1132 N84-17360
Intramolecular energy transfer reactions as a method for metal complex assisted production of hydrogen
[DE84-004762] 10 p1456 N84-19510
Alkane soluble transition metal complexes
[AD-A137252] 10 p1458 N84-19525
Development of catalysts for the utilization of carbon monoxide
[DE84-005475] 11 p1629 N84-20659
A twisted P-C double bond: Synthesis and structure of a (Methylene)phosphine Fe-CO-4 complex
[AD-A141502] 19 p2984 N84-28907

COMPLEX NUMBERS
A quaternary cellular array complex number multiplier
[AD-P002362] 14 p2193 N84-24153
Some observations concerning the zero-curves of the real and imaginary parts of Riemann's zeta function
[MC-ZW-201/83] 21 p3476 N84-32030

COMPLEX SYSTEMS
On the interactions of incentive and information structures
[DE83-012064] 04 p0616 N84-14065
In the labyrinth of many valued logics
[AD-P002331] 14 p2190 N84-24122
Evaluating the response of complex systems to environmental threats: The Sigma 2 method
[UCRL-53399] 16 p2551 N84-26366

COMPLEX VARIABLES
NT ANALYTIC FUNCTIONS
NT BESSEL FUNCTIONS
NT CONFORMAL MAPPING
NT CONJUGATES
NT ELLIPTIC FUNCTIONS
NT ENTIRE FUNCTIONS
NT EXPONENTIAL FUNCTIONS
NT GAMMA FUNCTION
NT HARMONIC FUNCTIONS
NT HYPERBOLIC FUNCTIONS
NT LAGUERRE FUNCTIONS
NT LEGENDRE FUNCTIONS
NT LOGARITHMS
NT MEROMORPHIC FUNCTIONS
NT ORTHOGONAL FUNCTIONS
NT RATIONAL FUNCTIONS
NT SCHWARZ-CHRISTOFFEL TRANSFORMATION
NT SINGULARITY (MATHEMATICS)
NT SPHERICAL HARMONICS
Elements of functions of a complex variable
06 p0906 N84-15881

Research in stochastic processes
[AD-A136222] 09 p1381 N84-19018
Annals of the Fourier Institute, volume 33, no. 3
[ISSN-0373-0956] 14 p2210 N84-24264
Unfoldings of foliations with multiform first integrals
14 p2210 N84-24269
A result on extension of C.R. functions
14 p2210 N84-24270
Analytic wave front and microlocal decomposition distributions 14 p2211 N84-24272
Applications of Riemann-Hilbert problem techniques to electromagnetic coupling through apertures
[DE84-009532] 19 p3009 N84-29073
Annals of the Fourier Institute, volume 34, no. 1
[ISSN-0373-0956] 22 p3633 N84-33025
Characterizations of zeros in the functions of some Nevanlinna type classes in the bidisk
22 p3634 N84-33029
The Levi problem for cohomology classes
22 p3634 N84-33032
The growth of plurisubharmonic functions in infinite domain 22 p3634 N84-33033
Annals of the Fourier Institute, volume 34, no. 2
[ISSN-0373-0956] 22 p3635 N84-33038

COMPLEXITY
NT TASK COMPLEXITY
On the simulation of many storage heads by a single one
[MC-IW-226/83] 07 p1053 N84-16818
On the simulation of many storage heads by one
[MC-IW-228/83] 07 p1053 N84-16819
Partially ordered computations with applications to VLSI design 08 p1208 N84-17880
Machine models, computational complexity and number theory 08 p1223 N84-17991
Complex impedance of Ca/CaCrO4/Fe thermal batteries
[DE84-005507] 11 p1647 N84-20771
A new method for obtaining individual component spectra from those of complex mixtures
[AD-A139262] 14 p2122 N84-23719
On the distribution of complexity for de Bruijn sequences
[AD-A140679] 17 p2758 N84-27510
Bounded tiling, an alternative to satisfiability
[CWI-OS-R8405] 19 p3092 N84-29638
Experimental and model transport and diffusion studies in complex terrain with emphasis on tracer studies
[DE84-013076] 22 p3626 N84-32975

COMPLIANCE (ELASTICITY)
U MODULUS OF ELASTICITY

COMPLICATION
U COMPLEXITY

COMPONENT RELIABILITY
First level integrated maintenance in weapons systems 06 p0771 N84-15054
Reliability issues in active control of large flexible space structures
[NASA-CR-175341] 07 p0964 N84-16248
Reliability of electrical machines and drives, part 1
[BMFT-FB-T-83-163-PT-1] 07 p0999 N84-16480
Multistate reliability
[AD-A134589] 07 p1013 N84-16572
Sortie duration and helicopter component failures (an empirical study)
[AD-A134745] 08 p1095 N84-17122
Analysis and testing of the thermal design of the electronic package in the US Army's Upgraded Logic Module (ULM)
[AD-A135996] 09 p1308 N84-18551
Engine cyclic durability by analysis and material testing
[NASA-TM-83577] 09 p1330 N84-18683
Flight service evaluation of composite components on the Bell helicopter model 206L, flight service report
[NASA-CR-172296] 10 p1452 N84-19479
Lifetime prediction for electronic components and circuits using the phase noise measuring method
[FB-111] 10 p1487 N84-19723
Creep-rupture reliability analysis
[NASA-CR-3790] 10 p1516 N84-19925
Engineering and technical services to improve reliability and maintainability of instrument landing system components
[DOT/FAA/PM-84/7] 11 p1604 N84-20503
Component relevancy in multistate systems
[AD-A137727] 11 p1713 N84-21169
NASA flight electronics environmental stress screening survey
[NASA-CR-173472] 12 p1841 N84-22002
Safety recommendations A-84-8 and -9, and A-84-17 through -20 16 p2444 N84-25675
Safety recommendations A-84-14 and -15
16 p2444 N84-25678
Quality assurance of ESA spacecraft and associated equipment
[ESA-PSS-01-20-ISSUE-1] 16 p2499 N84-26036
Reliability assurance of ESA spacecraft
[ESA-PSS-01-30-ISSUE-1] 16 p2500 N84-26038
NASA Orbit Transfer Rocket Engine Technology Program
[NASA-CR-168156] 19 p2983 N84-28901
Stochastic models for common failures of components
[AD-A141490] 19 p3033 N84-29237
Advanced Gas Turbine (AGT)
[NASA-CR-174694] 19 p3117 N84-29605
Preliminary comparisons of the information content and utility of TM versus MSS data 20 p3215 N84-30423
Lower confidence bounds on system reliability using component data: Maximum methodology
[DE84-012813] 21 p3415 N84-31658

COMPONENTS
Experimental validation of the component synthesis method for predicting vibration of liquid-filled piping
10 p1510 N84-19882

COMPOSITE MATERIALS
NT ALUMINUM BORON COMPOSITES
NT ALUMINUM GRAPHITE COMPOSITES
NT BORON REINFORCED MATERIALS
NT CARBON FIBER REINFORCED PLASTICS
NT CARBON-CARBON COMPOSITES
NT CERMETS
NT COMPOSITE PROPELLANTS
NT EPOXY MATRIX COMPOSITES
NT EUTECTIC COMPOSITES
NT FIBER COMPOSITES
NT FIBER REINFORCED COMPOSITES
NT GLASS FIBER REINFORCED PLASTICS
NT GLASSY CARBON
NT GRAPHITE-EPOXY COMPOSITES
NT GRAPHITE-POLYIMIDE COMPOSITES
NT LAMINATES
NT METAL MATRIX COMPOSITES
NT PLYWOOD
NT POLYMER MATRIX COMPOSITES
NT REINFORCED PLASTICS
NT RESIN MATRIX COMPOSITES
NT THREE DIMENSIONAL COMPOSITES
NT WHISKER COMPOSITES
Optical pattern recognition for missile guidance
[AD-A130097] 01 p0018 N84-10113
Structural anomaly in composite material
[BLL-M-35170-(5828.4)] 01 p0030 N84-10187
Sharp PC-1500 pocket computer solutions to composite materials formulas
[AD-A130421] 01 p0031 N84-10193
Structural gradient in the silane coupling agent layers and its influence on the mechanical and physical properties of composites
[AD-A130864] 01 p0031 N84-10197
Characterization, Analysis and Significance of Defects in Composite Materials
[AGARD-CP-355] 01 p0032 N84-10203
Dissecting composite parts: A valuable aid in concept design and nondestructive control
01 p0033 N84-10207
Flexible composite film for printed circuit board
[NASA-TM-77109] 01 p0069 N84-10452
Mechanisms of wear in single and two-phase materials
[DE83-014651] 01 p0091 N84-10592
Fracture mechanics of sub-laminate cracks
[AD-A130782] . 01 p0096 N84-10623
Singularities at the tip of a crack normal to the interface of an anisotropic layered composite
[AD-A131504] 01 p0096 N84-10625
Examination, evaluation and repair of laminated wood blades after service on the Mod-OA wind turbine
[NASA-TM-83483] 01 p0102 N84-10664
Composite laminate weight optimization on the Timex-Sinclair 1000 microcomputer
[AD-A130214] 01 p0121 N84-10789
On the optimal design of bidirectional composites
[AD-A131353] 02 p0188 N84-11221
The effect of moisture on the properties of an aramid/epoxy composite
[AD-A131132] 02 p0188 N84-11222
Some trends in airship technology developments
[AGARD-R-717] 03 p0314 N84-12050
Enthalpy - improved dielectric insulation for superconducting wires
[AD-A131857] 03 p0356 N84-12316
New developments in composite-flywheel containment
[DE83-012583] 03 p0383 N84-12497
INHYD: Computer code for intraply hybrid composite design. A users manual
[NASA-TP-2239] 04 p0491 N84-13224
Overview of composites capability at Lawrence Livermore National Laboratory
[DE84-001086] 04 p0492 N84-13228
Characterization of glass-filled engineering thermoplastic composites
[DE84-000361] 04 p0492 N84-13231
Microwave nondestructive evaluation of composites
[DE84-001777] 04 p0547 N84-13601
Research on composite materials for structural design
[AD-A134059] 05 p0645 N84-14242
Manufacturing methods and technology (MANTECH) program. Quality control and nondestructive evaluation techniques for composites. Part 6: Acoustic emission: A state-of-the-art review
[AD-A132621] 05 p0645 N84-14245
Linear and nonlinear viscoelastic constitutive relations of cord reinforced elastomers
[DE84-002371] 05 p0660 N84-14338
Ultrasonic NDE of bonds in multilayered systems
[AD-A133619] 05 p0689 N84-14530
Coupled diffusion and deformation theory: Hygrothermal stress distribution around crack-like defects
05 p0694 N84-14556
The preparation and properties of porous glass-polymer composite 06 p0808 N84-15261
A simple approach to determination of stiffness characteristics of unidirectional composites
[NASA-TM-77088] 07 p0967 N84-16263
Surface analysis in composite bonding
[NASA-CR-175353] 07 p0967 N84-16264
Composite laminate weight optimization on the sharp PC-1500 pocket computer
[AD-A133348] 07 p0968 N84-16272
Energy absorption by polymer crazing
[NASA-CR-173275] 07 p0978 N84-16335
Phenoxy resins containing pendent ethynyl groups
[NASA-TM-85747] 07 p0978 N84-16338
Optimization of laminated composite cylindrical shells for axial buckling 07 p0985 N84-16377
Buckling loads of stiffened panels subjected to combined longitudinal compression and shear: Results obtained with PASCO, EAL, and STAGS computer programs
[NASA-TP-2215] 07 p1015 N84-16585
An accurate theory and simple fourth order governing equations for orthotropic and composite cylindrical shells
[AD-A134532] 07 p1062 N84-16886
Estimating the cost of composite material airframes using the Rand Corporation Development and Procurement Costs of Aircraft parametric model (DAPCA III)
[AD-A134993] 08 p1095 N84-17120
Composite structural materials
[NASA-CR-173259] 08 p1122 N84-17293
Ultrastructure processing and environmental stability of advanced structural and electronic materials
[AD-A135107] 08 p1136 N84-17391
Determination of the effect of strain rate on the mechanical properties of graphite-epoxy laminates
[AD-A136334] 09 p1276 N84-18328
Sharp PC-1500 pocket computer solutions to statistical data analysis of composite materials or metals
[AD-A135086] 09 p1276 N84-18334
The current status of diamond and cubic boron nitride composites 09 p1292 N84-18441
Structural efficiency studies of corrugated compression panels with curved caps and beaded webs
[NASA-TP-2272] 09 p1329 N84-18675
POSTOP: Postbuckled open-stiffener optimum panels, user's manual
[NASA-CR-172260] 09 p1330 N84-18682
Long-term load performance of hardboard I-beams
[AD-A136091] 09 p1334 N84-18706
Applications of composite materials in helicopter construction
[AD-A136678] 10 p1427 N84-19336
Temperature effects of cement joints in ceramic-stack resonators
[AD-A137435] 10 p1486 N84-19716
Structural composites technology working group report IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A137331] 10 p1504 N84-19829
SH wave propagation in a laminated composite
11 p1627 N84-20646
Development of the VLS process for SiC whisker growth
[DE84-004376] 11 p1628 N84-20652
Technique for manufacturing nickel electrodes
[NASA-TM-77239] 11 p1632 N84-20671
Flywheel rotor and containment technology development
[DE84-005742] 11 p1665 N84-20864
Material requirements for multimedia communications cable 11 p1724 N84-21248
USSR report: Materials science and metallurgy
[JPRS-UMS-84-001] 12 p1783 N84-21633
Mechanical engineering research program
[DE84-001085] 12 p1823 N84-21884

Pre-stressed thermal protection systems
[NASA-CASE-MSC-20254-1] 13 p1938 N84-22601
Diamondlike flake composites
[NASA-CASE-LEW-13837-1] 13 p1953 N84-22695
Microwave curing of composites
13 p1955 N84-22706
Non-destructive evaluation of composite materials using ultrasound
[NASA-CR-173416] 13 p1999 N84-22969
West Europe report: Science and technology
[JPRS-WST-84-011] 13 p2036 N84-23224
Qualities of SEP ceramic-ceramic Cerasep composites
13 p2036 N84-23225
West Europe report: Science and technology
[JPRS-WST-84-013] 14 p2118 N84-23694
Britain's ICI develops new easy-to-shape composites
14 p2118 N84-23695
Fatigue damage - strength relationships in composite laminates, volume 2
[AD-A139241] 14 p2120 N84-23704
Thick-wall Kevlar 49/epoxy pressure vessels
[DE84-003102] 14 p2120 N84-23707
Mechanical behavior of surface aminated polyaramid fabric/epoxy composites
[DE84-006230] 14 p2120 N84-23708
AGARD bulletin: Meetings, publications, membership
[AGARD-BUL-84/1] 14 p2252 N84-24527
European research on polymers and composites
[AD-A139760] 15 p2302 N84-24813
Reliability-based design principle of composite materials with failure probability as a statistic
15 p2309 N84-24851
Effective elastic moduli of an isotropic, two-phase composite 15 p2309 N84-24852
Dynamic instability of suddenly heated, thick, composite shells 15 p2309 N84-24853
Longitudinally stiffened composite multi-layer cylindrical shells (and rings) under internal pressure
15 p2309 N84-24855
Effect of stress singularities on the delamination of laminated composites 15 p2310 N84-24858
On the analysis of thick walled composite material cylindrical shells 15 p2311 N84-24867
Panasonic HR-1600 hand-held computer solutions to composite materials formulas
[AD-A139798] 15 p2391 N84-25352
Composite materials in automobile weight reduction
15 p2431 N84-25599
Nondestructive testing of composite structures
[SNIAS-832-210-106] 16 p2500 N84-26045
Effect of preforming adherends on static and fatigue strength of bonded composite single-lap joints
[NASA-TP-2324] 16 p2501 N84-26053
Full scale phosphoric acid fuel cell stack technology development
[NASA-CR-174660] 16 p2518 N84-26185
Annual report on grant AFOSR-80-0228
[AD-A140612] 16 p2550 N84-26365
A principal rotor without joints and pillows, made of fiber materials, for dynamic systems of future helicopters
[MBB-UD-384-83-O] 16 p2562 N84-26440
Matrix cracking in composites and its effects on damaged ply constitutive behavior
17 p2677 N84-27052
Interlaminar fracture of composites
[NASA-TM-85768] 18 p2809 N84-27835
Hygrothermal effects in continuous fibre reinforced composites. Part 1: Thermal and moisture diffusion in composite materials
[AD-A128226] 18 p2810 N84-27837
Deformation and fracture maps for polymer-foams, solid polymers and polymer-composites
[AD-A141197] 18 p2818 N84-27893
An AC impedance study of steel in concrete
[AERE-R-11132] 18 p2835 N84-27997
The application of HTR coated fuel particle performance models to various problems in materials' science
[AERE-R-11029] 18 p2931 N84-28589
Report of an overseas visit to the USA, part 2
[AD-A142054] 19 p2955 N84-28729
Transformation plasticity in high-strength materials
[DE84-008655] 19 p2986 N84-28922
The role of boundary layer capacitance at blocking electrodes in the interpretation of dielectric cure data in adhesives
[AD-A142186] 19 p3016 N84-29121
Interfacial interaction and adhesion in composite materials 20 p3144 N84-29961
ACEE Composite Structures Technology: Review of selected NASA research on composite materials and structures
[NASA-CP-2321] 20 p3145 N84-29969
Worldwide flight and ground-based exposure of composite materials 20 p3145 N84-29971
Comparison of toughened composite laminates using NASA standard damage tolerance tests
20 p3145 N84-29972
Impact dynamics research on composite transport structures 20 p3146 N84-29975
Studies of noise transmission in advanced composite material structures 20 p3146 N84-29977
Electropositive bivalent metallic ion unsaturated polyester complexed polymer concrete
[DE84-011080] 20 p3146 N84-29979
Characterization of the microstructures of various materials
[AD-A141946] 20 p3152 N84-30017
Adhesive bond and composite strength screening system developmental study
[FZM-7184] 20 p3161 N84-30073
Modern structure materials: Present situation and evolution perspectives — aircraft construction materials
[SNIAS-841-551-103] 21 p3328 N84-31118
Flight service evaluation of Kevlar-49 epoxy composite panels in wide-bodied commercial transport aircraft
[NASA-CR-172344] 21 p3356 N84-31287
Dielectric cure monitoring: Preliminary studies
[NASA-TM-86452] 21 p3369 N84-31378
Holographic test procedures for the evaluation of complicated material composites (tires)
[BMFT-FB-T-84-096] 21 p3407 N84-31612
Graduate engineering research participation in aeronautics
[NASA-CR-173849] 21 p3507 N84-32220
Statistics of fracture of composite materials under multiaxial loading 22 p3544 N84-32433
A simple rectangular element for 2-dimensional analysis of laminated composites
[NASA-TM-86291] 22 p3544 N84-32439
Hybrid stress reduced-Mindlin elements for thin multilayer plates with application to edge contact problems 22 p3608 N84-32657
USSR report: Materials science and metallurgy
[JPRS-UMS-84-006] 23 p3705 N84-33489
Scale effect of fiber strength and properties of fiber-based unidirectional composites
23 p3706 N84-33496
Deformation of fiber-reinforced laminated composite near free surface 23 p3706 N84-33497
Deformability and bearing strength of shells made on release mandrel 23 p3707 N84-33498
Temperature and heat-flux distributions in a strip-heated composite slab
[DE84-006016] 23 p3712 N84-33529
How some test variables affect bending, tension, and compression values for particle panel products
[AD-A143627] 23 p3761 N84-33836
Influence of natural exposure in space on physical-mechanical properties of carbon reinforced plastic 24 p3872 N84-34536
Composite materials with aluminum matrix reinforced with carbon fibers 24 p3872 N84-34537
Highly porous powder-fiber composite materials
24 p3872 N84-34538
Thermal physics of plasma atomization onto fiber materials 24 p3873 N84-34544
Prediction of crack extension direction in unidirectional composites
[VPI-E-84-27] 24 p3878 N84-34572
Ultrasonic inspection of composite materials
[AD-D011210] 24 p3911 N84-34768
Effect of stacking sequence on fatigue life of composite materials 24 p3958 N84-35058

COMPOSITE PROPELLANTS
Combustion modeling of composite solid propellants
03 p0351 N84-12285
Status of ammonium nitrate in propellants and explosives 13 p1946 N84-22655
Nitramine propellant ignition under rapid gas loading conditions 13 p1950 N84-22677
Multiphase flow analysis of the ballistic performance of an anomalous LOVA propellant mix
13 p1950 N84-22679
CARS studies of nitramine LOVA propellant combustion 13 p1951 N84-22683

COMPOSITE STRUCTURES
NT LAMINATES
NT PLYWOOD
Proceedings of the 8th Annual Mechanics of Composites Review
[AD-A130750] 01 p0031 N84-10196
Methods of improving the matrix dominated performance of composite structures: A technical review
[AD-A131257] 01 p0032 N84-10201
The influence of fabrication flows on the static and dynamic behavior of structures made of carbon-resin composites 01 p0034 N84-10215
Advanced ND techniques for composite primary structures 01 p0034 N84-10216
The significance of defects and damage in composite structures 01 p0035 N84-10219
In-service NDI of composite structures: An assessment of current requirements and capabilities
01 p0035 N84-10220
Effect of defects on aircraft composite structures
01 p0035 N84-10221
The engineering significance of defects in composite structures 01 p0035 N84-10222
Delamination growth in composite structures under inplane compression loading 01 p0036 N84-10224
Field-incidence transmission of treated orthotropic and laminated composite panels
[NASA-TM-85680] 01 p0139 N84-10911
Aeroelastic tailoring of high-aspect-ratio composite wings in the transonic regime 02 p0170 N84-11119
Guidelines for composite materials research related to general aviation aircraft
[NASA-CR-3720] 02 p0187 N84-11218
Flight service evaluation of advanced composite ailerons on the L-1011 transport aircraft
[NASA-CR-172246] 04 p0491 N84-13223
Numerical simulation of two-dimensional heat transfer in composite bodies with application to de-icing of aircraft components
[NASA-CR-168283] 04 p0531 N84-13490
Manufacturing methods and technology (MANTECH) program. Quality control and nondestructive evaluation techniques for composites. Part 6: Acoustic emission: A state-of-the-art review
[AD-A132621] 05 p0645 N84-14245
Ultrasonic NDE of bonds in multilayered systems
[AD-A133619] 05 p0689 N84-14530
Analysis of the nonlinear large deformation behavior of composite cylindrical shells
[AD-A133761] 05 p0693 N84-14549
Design concepts for low-cost composite engine frames
[NASA-TM-83544] 07 p0954 N84-16186
Development of a stable epoxy resin system for composite repair
[AD-A135390] 08 p1137 N84-17395
Numerical investigation of stress-strain state of composite working tool assembled with negative allowance
[BLL-M-35379] 09 p1328 N84-18672
Concepts for improving the damage tolerance of composite compression panels — aircraft structures
[NASA-TM-85748] 09 p1329 N84-18678
POSTOP: Postbuckled open-stiffener optimum panels-theory and capability
[NASA-CR-172259] 09 p1329 N84-18679
Skin-stiffener interface stresses in composite stiffened panels
[NASA-CR-172261] 09 p1330 N84-18681
Fracture, longevity (fatigue), dynamics, and aeroelasticity of composite structures
[AD-A137047] 10 p1452 N84-19486
The Shock and Vibration Digest, volume 15, no. 10
[AD-A136898] 10 p1506 N84-19855
Impact loading in filamentary structural composites
10 p1506 N84-19857
Dynamic behavior of composite layered beams by the finite element method 10 p1511 N84-19892
Optimized bolted joint
[NASA-CASE-LAR-13250-1] 11 p1664 N84-20859
Moisture transport in composites during repair work
[AD-A138658] 13 p1954 N84-22703
New theory for thick, composite-material rings
[AD-A138538] 13 p2001 N84-22961
Advanced leading edge thermal-structure concept. Direct bond reusable surface insulation to a composite structure
[NASA-TM-85941] 14 p2113 N84-23665
Experimental measurement of material damping for space structures in simulated zero-g
[AD-A139215] 14 p2120 N84-23703
Finite element model to compute stresses in composite masonry due to creep, shrinkage and temperature
[PB84-152578] 14 p2159 N84-23933
Multidirectional composites in ballistic and aerospace vehicles
[SNIAS-832-430-102] 16 p2458 N84-25759
Composite materials: The user and the producer
[SNIAS-832-111-108] 16 p2461 N84-25772
Deflection and vibration in shear-deformable beams and laminated composites made of bimodular and multimodular materials 16 p2503 N84-26066
Repair techniques for celion/LARC-160 graphite/polyimide composite structures
[NASA-CR-3794] 17 p2617 N84-26752
Roll-trusion (RT*) of composite structures
[AD-A140838] 17 p2618 N84-26757
Design of mechanical joints in composites
17 p2674 N84-27038

Advanced composite elevator for Boeing 727 aircraft. Volume 1: Technical summary
[NASA-CR-3290] 18 p2792 N84-27722
Development of an advanced composite aileron for the L-1011 transport aircraft
[NASA-CR-3517] 18 p2810 N84-27836
Improved high temperature resistant matrix resins
[NASA-CR-168210] 19 p2998 N84-28995
Fatigue and Fracture Branch: A compendium of recently completed and on-going research projects
[NASA-TM-85825] 20 p3201 N84-30331
Evaluation of a vibration technique for detection of barely-visible impact-damage in composites
[AD-A142807] 21 p3357 N84-31293
Composite structure repair
[AD-A141456] 21 p3358 N84-31300
Simulation of vibratory processes in damped structures with temperature-frequency characteristics of vibration absorbing materials taken into account
21 p3478 N84-32046
Design of a composite wing extension for a general aviation aircraft
[NASA-CR-173832] 22 p3534 N84-32377

COMPOSITES
U COMPOSITE MATERIALS

COMPOSITION (PROPERTY)
NT ATMOSPHERIC COMPOSITION
NT ATMOSPHERIC MOISTURE
NT BODY COMPOSITION (BIOLOGY)
NT CARBON DIOXIDE CONCENTRATION
NT CHEMICAL COMPOSITION
NT CONCENTRATION (COMPOSITION)
NT GAS COMPOSITION
NT IONOSPHERIC COMPOSITION
NT LUNAR COMPOSITION
NT METEORITIC COMPOSITION
NT METEOROID CONCENTRATION
NT MOISTURE CONTENT
NT PLANETARY COMPOSITION
NT PLASMA COMPOSITION
NT STELLAR COMPOSITION
Continental crustal composition and lower crustal models 11 p1680 N84-20965
Status of understanding for seal materials
15 p2343 N84-25062
Formation of silicide contacts using codeposited refractory metals alloy films
[AD-A142879] 21 p3391 N84-31519

COMPRESSED AIR
Physical modeling of the champagne effect
[DE84-001813] 04 p0516 N84-13388
Efficiency of compressed-air systems
[DE84-002599] 05 p0663 N84-14361
A quasi-continuous transonic wind tunnel for cryogenic operation
[ROLLAB-MEMO-RM-096] 06 p0792 N84-15161
The start-up of a gas turbine engine using compressed air tangentially fed onto the blades of the basic turbine
[NASA-TM-77021] 07 p1012 N84-16583
A radically new approach to the installation of optical fibre using the viscous flow of air
11 p1724 N84-21247
A study of the action of an airgun
[BU-296] 16 p2454 N84-25734
Compressed air systems: A guidebook on energy and cost savings
[DE84-006802] 20 p3170 N84-30133
Compressed air exhaust silencers, summary
[CETIM-11-H-275] 21 p3414 N84-31650
Compressed air production with waste heat utilization in industry 23 p3727 N84-33619
Emergency handling of compressed air casualties
[AD-A143598] 23 p3810 N84-34157

COMPRESSED GAS
NT HIGH PRESSURE OXYGEN
Enhanced compressible fluids investigation
[AD-A131622] 02 p0218 N84-11428
Assessment of institutional barriers to the use of natural gas fuel in automotive vehicle fleets
[NASA-CR-168183] 05 p0699 N84-14587
Compact gas insulated transformer
[DE84-006426] 12 p1814 N84-21822

COMPRESSIBILITY
Proceedings of the 8th Annual Mechanics of Composites Review
[AD-A130750] 01 p0031 N84-10196
Comparison of compression properties and swelling of beryllium irradiated at various temperatures
[DE84-000597] 04 p0500 N84-13277
Chemistry of shock compression: A bibliography
[DE84-002192] 05 p0651 N84-14279
Computer programs for helicopter high speed flight analysis
[AD-A136376] 09 p1255 N84-18191
Compressibility of colloids. 2: Compressibility studies of tri-block non-ionic polymers in toluene and water solutions
[AD-A138738] 13 p1963 N84-22755
Effect of pressure on the mechanical properties of polymers, part 1
[DE84-006311] 13 p1965 N84-22765
Numerical simulation of strongly non-isothermal compression molding flows 15 p2306 N84-24834
Compression failure mechanisms in unidirectional composites
[NASA-TM-85834] 23 p3711 N84-33523

COMPRESSIBILITY EFFECTS
Fast, non-linear optical-scattering spectroscopy in shock-compressed organic liquids
[DE83-007548] 01 p0148 N84-10972
Laser velocimetry study of compressibility effects on the flow field of a delta wing 03 p0322 N84-12108
The compressible aerodynamics of rotating blades based on an acoustic formulation
[NASA-TP-2197] 04 p0594 N84-13923

COMPRESSIBLE BOUNDARY LAYER
Unsteady compressible laminar boundary-layer flow within an expansion wave
[AD-A131889] 03 p0371 N84-12420
A finite difference technique for laminar and turbulent compressible boundary layers 06 p0835 N84-15433
Some aspects of two-dimensional compressible turbulent boundary layers 06 p0837 N84-15456
Three-dimensional, time-dependent, compressible, turbulent, integral boundary-layer equations in general curvilinear coordinates and their numerical solution
[AD-A133289] 06 p0844 N84-15504
Numerical simulation of shock/turbulent boundary layer interactions over 2-D compression corners
17 p2666 N84-27000
COSAL: A black-box compressible stability analysis code for transition prediction in three-dimensional boundary layers
[NASA-CR-165925] 18 p2836 N84-28002

COMPRESSIBLE FLOW
NT TRANSONIC FLOW
COMPBL-II: Compressible, variable pressure boundary layer program for arbitrary gaseous mixtures
[AD-A131352] 02 p0218 N84-11427
Numerical methods for free boundary problems and 2 phase flows
[AD-A131374] 02 p0280 N84-11835
Unsteady compressible laminar boundary-layer flow within an expansion wave
[AD-A131889] 03 p0371 N84-12420
Computation of compressible flows using finite elements and optimization techniques 05 p0678 N84-14456
Computational methods for ideal compressible flow
06 p0836 N84-15482
Spectral methods for the Euler equations: Fourier methods and shock-capturing
[NASA-CR-172294] 08 p1095 N84-17119
Time dependent, compressible simulations of shear flows: Tests of outflow boundary conditions
[AD-A136410] 09 p1314 N84-18587
Stability of compressible wake and jet flows
[AD-A136541] 09 p1314 N84-18589
Rotordynamic forces developed by labyrinth seals
[AD-A136217] 09 p1316 N84-18599
An analytical study of the effects of surface roughness on a compressible turbulent boundary layer
[AD-A136911] 10 p1492 N84-19756
Effects of multiple cylinders on the formation of Von Karman vortex streets
[AD-A136930] 10 p1492 N84-19758
Computation of discrete slanted hole film cooling flow using the Navier-Stokes equations
[AD-A137022] 10 p1493 N84-19763
Bodies in compressible flow: The use of axial singularity distributions
[COLL-AERON.-8329] 11 p1600 N84-20483
Extension to an analysis of turbulent swirling compressible flow for application to axisymmetric small gas turbine ducts
[NASA-CR-165597] 11 p1753 N84-21445
Normal reflection of a shock wave at a rigid wall in a dusty gas
[UTIAS-274] 12 p1815 N84-21829
Riemann solvers, the entropy condition and high resolution difference approximations
[AD-P002945] 14 p2198 N84-24185
Least squares approximations to compressible flow problems
[AD-P002961] 14 p2200 N84-24201
High speed inviscid compressible flow by the finite element method
[NASA-CR-173556] 15 p2332 N84-25002
Computational techniques for hypersonic flows
16 p2442 N84-25666
The compressible aerodynamics of rotating blades using an acoustic formulation 16 p2442 N84-25670
Pseudo-unsteady systems for steady inviscid flows
[ONERA-P-1983-4] 16 p2487 N84-25955
Finite elements in computational fluid dynamics
16 p2491 N84-25982
An adaptive finite element method for high speed compressible flow
[NASA-CR-173443] 17 p2601 N84-26669
Transonic panel method for the full potential equation applied to multi-component airfoils
[NLR-MP-83030-U] 17 p2601 N84-26674
Immersion of disk in compressible fluid at angle to free surface 17 p2647 N84-26930
Three-dimensional turbulent boundary layers at bielliptical bodies in stream of compressible gas at some angle of attack 17 p2648 N84-26936
Vibrations of and radiation from shell of revolution under hoop load 17 p2649 N84-26940
Numerical simulation of shock/turbulent boundary layer interactions over 2-D compression corners
17 p2666 N84-27000
Solution of 3-dimensional time-dependent viscous flows. Part 2: Development of the computer code
[NASA-CR-166565-PT-2] 17 p2666 N84-27002
Compressible flows of jets and cavities
[PREPRINT-637] 17 p2669 N84-27022
Solution of 3-dimensional time-dependent viscous flows. Part 1: Investigation of candidate algorithms
[NASA-CR-166565-PT-1] 17 p2757 N84-27503
On the evaluation of boundary layer measurements on boattailed bodies of revolution in axisymmetric compressible subsonic flow
[DFVLR-FB-84-09] 18 p2837 N84-28010
Acoustic pressures emanating from a turbomachine stage
[NASA-TM-83734] 20 p3183 N84-30224
Spectral methods for compressible flow problems
[NASA-CR-172395] 20 p3279 N84-30816
Semi-implicit method for three-dimensional compressible MHD simulation
[IPP-6/234] 20 p3301 N84-30961
Numerical solution of the Euler and the Navier-Stokes equations for a compressible flow problem
21 p3397 N84-31551
Three-dimensional, time-dependent, compressible, turbulent, integral boundary layer equations in general curvilinear coordinates and their numerical solutions
22 p3529 N84-32348
A theoretical study of resin flows for thermosetting materials during prepreg processing
[NASA-CR-172442] 23 p3724 N84-33596
A comparison of experimental and theoretical results for leakage, pressure distribution, and rotordynamic coefficients for annular gas seals
[NASA-CR-174000] 24 p3910 N84-34785
Enthalpy damping for the steady Euler equations
[NASA-TM-86006] 24 p3950 N84-35009

COMPRESSIBLE FLUIDS
Enhanced compressible fluids investigation
[AD-A131622] 02 p0218 N84-11428
The vertical propagation of internal gravity waves in a compressible atmosphere 10 p1536 N84-20080
Approximation of compressible fluid in fluid-structure interaction problems
[CSIR-R/NIAST-15] 11 p1651 N84-20778
TOPAZ: A computer code for modeling heat transfer and fluid flow in arbitrary networks of pipes, flow branches, and vessels
[DE84-006275] 11 p1709 N84-21142
Dynamic stifness of closed gas-static bearing with regulator 13 p1968 N84-22774
Improvement of dynamic characteristics of gas-static bearings 13 p1968 N84-22775
Effect of pressure wave on cylindrical sandwich shell immersed in compressible fluid
17 p2650 N84-26948

COMPRESSING
NT PLASMA COMPRESSION
Research on microstructurally developed toughening mechanisms in ceramics
[AD-A130394] 01 p0049 N84-10316
Plastic flows of tubes and blocks
06 p0833 N84-15421
Structure of quasi-hyperbolic stochasticity in inertial self-excited oscillator 18 p2823 N84-27923
Collapse of long stiffened circular cylinders under combined axial bending and pressure loading
23 p3759 N84-33825

COMPRESSION LOADS
NT AXIAL COMPRESSION LOADS
NT IMPACT LOADS
Delamination growth in composite structures under inplane compression loading 01 p0036 N84-10224
Raman spectroscopies in shock-compressed materials
[DE83-014170] 02 p0190 N84-11236

Specific surface measurements of shock-modified powders
[DE83-016230] 02 p0196 N84-11275
Single-pulse coherent Raman spectroscopy in shock-compressed benzene
[DE83-014140] 02 p0219 N84-11433
Mach disc formation in cylindrical recovery systems
[DE83-015912] 02 p0220 N84-11442
The effect of moisture on the physical and durability properties of methyl methacrylate polymer concrete
[DE83-016733] 03 p0390 N84-12541
Theoretical and experimental studies of shock-compressed benzene and polybutene
[DE83-015884] 03 p0430 N84-12816
Buckling loads of stiffened panels subjected to combined longitudinal compression and shear: Results obtained with PASCO, EAL, and STAGS computer programs
[NASA-TP-2215] 07 p1015 N84-16585
Nonlinear geometric, material and time dependent analysis of reinforced concrete shells with edge beams
[PB84-104454] 08 p1173 N84-17639
Elysium Region, Mars: Characterization of tectonic features 13 p2089 N84-23534
Analytical results for postbuckling behavior of plates in compression and shear
[NASA-TM-85766] 14 p2157 N84-23922
Delamination growth in notched graphite/epoxy laminates under compression fatigue loading
[FFA-TN-1983-57] 15 p2264 N84-24713
Stress intensity factors for slightly kinked, partially closed cracks in compression
[AD-A140550] 16 p2503 N84-28064
Further thoughts on shot peening (and other compression inducing surface treatments) for fatigue enhancement
[BAE-KRS-N-GEN-275] 17 p2622 N84-26779
Orbiting dynamic compression laboratory
[NASA-CR-173704] 18 p2798 N84-27755
Concrete behavior under dynamic tensile-compressive load
[AD-A141735] 19 p3036 N84-29255
Postbuckling behavior of graphite-epoxy panels 20 p3146 N84-29976
New experimental techniques with the split Hopkinson pressure bar
[DE84-003818] 20 p3190 N84-30268
Development of a high-pressure quasi-isentropic plane wave generating capability
[DE84-011619] 20 p3203 N84-30348
Hole interaction and load introduction effects for compression-loaded laminates with holes
[NASA-TM-86287] 22 p3544 N84-32435
Distribution of micro-heterogeneous deformation in O8Yu steel around inclusions during compression
[BLL-M-35641-(5828.4)] 22 p3553 N84-32498
Opening of an interface flaw in a layered elastic half-plane under compressive loading
[NASA-TM-86282] 22 p3611 N84-32677
Analysis of instability-related growth of a through-width delamination
[NASA-TM-86301] 23 p3711 N84-33524
Mechanical force and cartilage metabolism 23 p3808 N84-34147

COMPRESSION RATIO
Positive displacement rotary compressor for vapor compression
[PB83-232744] 01 p0092 N84-10599
Numerical experiments with CONCHAS-SPRAY: Compression stroke of an external chamber diesel engine
[DE84-002321] 06 p0653 N84-15561

COMPRESSION TESTERS
U COMPRESSION TESTS

COMPRESSION TESTS
Metal formability in bulk deformation processes 09 p1293 N84-18446
Effect of creep in titanium alloy Ti-6Al-4V at elevated temperature on aircraft design and flight test
[NASA-TM-86033] 09 p1330 N84-18665
Determination of characteristic values for fiber reinforced materials — structural mechanics 10 p1452 N84-19481
Analysis of a high-strength concrete model under biaxial compression
[AD-A137050] 10 p1518 N84-19935
Compressional features in the Tharsis Region of Mars: Orientations and Timing of Deformation 13 p2090 N84-23539
Orbiting dynamic compression laboratory
[NASA-CR-173704] 18 p2798 N84-27755
Mechanical properties of multi-year sea ice. Phase 1: Test results
[AD-A144132] 24 p3935 N84-34907

COMPRESSION WAVES
Velocity Interferometer System for Any Reflector (VISAR): Studies of wave growth in granular explosives
[DE83-013772] 02 p0204 N84-11330
On the breakdown of acceleration waves in radiative magneto-fluids 15 p2402 N84-25415
Petrography and ultrasonic wave velocity in the Admire Formation (Permian), Kansas 22 p3621 N84-32945

COMPRESSIVE STRENGTH
The effect of damage on the tensile and compressive performance of carbon fibre laminates 01 p0034 N84-10213
Tensile, compressive, and shear properties of a 64-kg/m3 polyurethane foam at low temperatures
[PB83-204818] 01 p0051 N84-10330
Short-term mechanical properties of high-strength light-weight concrete 01 p0059 N84-10387
Time-dependent behavior of high-strength concrete sustained compressive stresses
[PB83-227041] 01 p0060 N84-10391
Structural efficiency studies of corrugated compression panels with curved caps and beaded webs
[NASA-TP-2272] 09 p1329 N84-18675
Concepts for improving the damage tolerance of composite compression panels — aircraft structures
[NASA-TM-85748] 09 p1329 N84-18678
Compressive strength and damage mechanisms in partially stabilized zirconia
[AD-A137513] 10 p1459 N84-19529
Effect of impact damage and open holes on the compression strength of tough resin/high strain fiber laminates — graphite-epoxy composites
[NASA-TM-85756] 11 p1627 N84-20650
Strength of hard alloy elements of high pressure apparatus for synthesis of superhard materials 12 p1785 N84-21647
Revision of design values for 7075-T7351 and 7075-T7651 aluminum plate
[AD-A139092] 13 p1961 N84-22740
Selection of a mineral-base lubricant for the cold rolling of aluminum strip 15 p2401 N84-25412
High-strength concrete for Peacekeeper facilities
[AD-A140510] 16 p2477 N84-25880
Experimental investigation of delaminations in carbon fiber composite
[MBB-FE-214/S/PUB/107] 16 p2562 N84-26434
Analytical model of strength loss in filament wound spherical vessels
[DE84-010213] 19 p2986 N84-28923
Comparison of toughened composite laminates using NASA standard damage tolerance tests 20 p3145 N84-29972
Synthesis and toughness properties of resins and composites 20 p3146 N84-29973
Simple examples of non linear truss behavior
[AD-A143368] 22 p3611 N84-32682
How some test variables affect bending, tension, and compression values for particle panel products
[AD-A143627] 23 p3761 N84-33836
Ground exposure of composite materials for helicopters
[NASA-TM-86311] 24 p3879 N84-34577
Mechanical properties of multi-year sea ice. Phase 1: Test results
[AD-A144132] 24 p3935 N84-34907

COMPRESSOR BLADES
Research on aero-thermodynamic distortion induced structural dynamic response of multi-stage compressor blading
[AD-A133853] 05 p0632 N84-14151
Design procedures for compressor blades
[NASA-TM-77085] 06 p0852 N84-15552
Design of transonic compressor cascades for minimal shock losses and comparison with test results 07 p0955 N84-16192
Compressor and turbine blade boundary layer separation 07 p0955 N84-16196
Annulus wall boundary layer development in a compressor stage, including the effects of tip clearance 07 p0957 N84-16207
Report of tests of a compressor configuration of DCA blading
[AD-A133350] 07 p1002 N84-16501
Secondary flow spanwise deviation model for the stators of NASA middle compressor stages
[NASA-CR-173360] 09 p1256 N84-18202
Roughness effects on compressor blade performance in cascade at high Reynolds number
[AD-A136896] 10 p1492 N84-19755
Computer program for evaluating the ives transformation in turbomachinery cascades, revision
[AD-A137064] 10 p1571 N84-20295
Determination of boundary layer transition and separation on double circular arc compressor blades in a large subsonic cascade
[AD-A137550] 11 p1652 N84-20786
Erosion of corrosion resistant coatings for jet engine compressors
[NLR-MP-83010-U] 12 p1771 N84-21550
Behavior of cascaded airfoils under conditions of high mean loading and flow unsteadiness
[AD-A139799] 15 p2263 N84-24592
The boundary layer on compressor cascade blades
[NASA-CR-173514] 15 p2332 N84-25001
Abrasive tip treatment for use on compressor blades
[NASA-CR-174666] 15 p2343 N84-25065
Unsteady Flow in Turbomachines, volume 2
[VKI-LS-1984-02-VOL-2] 16 p2489 N84-25965
Stator blade row geometry modification influence on two-stage, axial-flow compressor aerodynamic performance
[AD-A141793] 19 p2966 N84-28797
Analysis of three-dimensional transonic compressors
[NASA-CR-166580] 22 p3531 N84-32356
Pin rooted blade biaxial air seal
[AD-D011066] 22 p3537 N84-32391
Report of tests of a compressor configuration of CD (Controlled Diffusion) blading
[AD-A143499] 22 p3604 N84-32832

COMPRESSOR EFFICIENCY
Increase of efficiency in cooled high temperature turbines
[BMFT-FB-W-84-019] 21 p3343 N84-31212

COMPRESSOR ROTORS
Annulus wall boundary layer development in a compressor stage, including the effects of tip clearance 07 p0957 N84-16207
End-wall boundary layer measurements in a two-stage fan 07 p0957 N84-16208
Compressor rotor aerodynamics 07 p0958 N84-16210
Experimental determination of the relative flow at the tip of a transonic axial compressor rotor
[AD-A137483] 10 p1420 N84-19288
Prediction of critical speeds, unbalance and nonsynchronous forced response of rotors 10 p1515 N84-19918
The potential of the single screw compressor 11 p1640 N84-20722
Erosion of corrosion resistant coatings for jet engine compressors
[NLR-MP-83010-U] 12 p1771 N84-21550
Lewis Research Center spin rig and its use in vibration analysis of rotating systems
[NASA-TP-2304] 15 p2260 N84-24578
Unsteady Flow in Turbomachines, volume 2
[VKI-LS-1984-02-VOL-2] 16 p2489 N84-25965
Unsteady interactions in supersonic compressor stages 16 p2490 N84-25972
Investigation of the three-dimensional flow field within a transonic fan rotor: Experiment and analysis
[NASA-TM-83739] 22 p3531 N84-32357

COMPRESSORS
NT CENTRIFUGAL COMPRESSORS
NT SUPERCHARGERS
NT SUPERSONIC COMPRESSORS
NT TRANSONIC COMPRESSORS
NT TURBOCOMPRESSORS
Positive displacement rotary compressor for vapor compression
[PB83-232744] 01 p0092 N84-10599
Computer modeling of the vapor compression cycle with constant flow area expansion device
[PB83-226639] 01 p0156 N84-11029
Computer modeling of the vapor compression cycle with constant flow area expansion device: Appendix J
[PB83-226647] 01 p0156 N84-11030
Development of a high efficiency compressor/expander for an air cycle air conditioning system
[AD-A130976] 02 p0229 N84-11502
Satellite refrigerator compressors with the oil and moisture removal systems
[DE83-016079] 03 p0384 N84-12502
Combined cold compressor/ejector helium-refrigerator cycle
[DE83-017764] 04 p0515 N84-13385
Stirling-engine heat-actuated heat pump
[DE83-017137] 04 p0537 N84-13529
Parametric testing and evaluation of a free-piston Stirling engine/linear-compressor system
[DE83-017282] 04 p0545 N84-13590
Efficiency of compressed-air systems
[DE84-002599] 05 p0663 N84-14361
Bladed-shrouded-disc aeroelastic analyses: Computer program updates in NASTRAN level 17.7
[NASA-CR-165428] 06 p0790 N84-15154
Gifford-McMahon refrigerator with split cold head 06 p0820 N84-15346
Analysis of a high-frequency Stirling Cycle compressor for cryogenic cooling in space
[NASA-TM-85066] 06 p0852 N84-15555

Computing the three dimensional boundary layer in a compressor 07 p0956 N84-16200
Heat pump units with electrically driven compressors for water heating
[BLL-OA-TRANS-3181-(6196.3)] 08 p1154 N84-17514
Research and development of energy-efficient appliance motor-compressors. Volume 4: Production demonstration and field test
[DE84-005083] 10 p1472 N84-19611
The potential of the single screw compressor 11 p1640 N84-20722
Capacity control of screw compressor units 11 p1640 N84-20726
High-efficiency dual-stroke compressor for heat pumps
[DE84-005813] 11 p1665 N84-20865
Technique for modal data acquisition in remote locations using hand portable instrumentation
[DE84-005755] 12 p1819 N84-21854
Determination of compressor in-stall characteristics from engine surge transients
[NASA-TM-83639] 13 p1932 N84-22566
Aeronautics and Space Engineering Board: Aeronautics Assessment Committee
[NASA-TM-85594] 13 p1967 N84-22771
Investigation of the behavior of axial compressor stages with steady state inlet distortions
[DFVLR-FB-83-39] 15 p2262 N84-24590
Solar photovoltaic powered refrigerators/freezers for medical use in remote geographic locations
[NASA-CR-168268] 15 p2361 N84-25163
Unsteady Flow in Turbomachines, volume 1
[VKI-LS-1984-02-VOL-1] 16 p2488 N84-25960
Stability of pumps and compressors 16 p2489 N84-25963
Solid state compressor
[AD-A140498] 16 p2499 N84-26032
Computer design and optimization of the active rotary flux compressor
[DE84-010089] 19 p3030 N84-29215
Research and development of energy-efficient high back-pressure compressor
[DE84-011827] 20 p3170 N84-30131
Advanced electric heat pump dual-stroke compressor and system development
[DE84-007916] 20 p3185 N84-30239
Solid state compressor
[AD-A142605] 20 p3196 N84-30300
A data acquisition and real-time display system for testing a jet engine compressor
[AD-A142698] 20 p3197 N84-30301
Blade endwall flows in an axial flow compressor stage 21 p3343 N84-31209
High-power RF compressor
[DE84-013118] 22 p3578 N84-32664
Report of tests of a compressor configuration of CD (Controlled Diffusion) blading
[AD-A143499] 22 p3604 N84-32832
Development of ferrous metallurgy described 23 p3707 N84-33499
Identification of quasi-steady compressor characteristics from transient data
[NASA-CR-174685] 24 p3855 N84-34444

COMPTON EFFECT

Inverse comptonization vs. thermal synchrotron
[DE84-001039] 04 p0622 N84-14105
Nonlinear interaction of toroidicity induced drift modes
[DE84-001562] 06 p0921 N84-15987
Empirical background calculation method for multi-channel X-ray spectrometers
[PB84-130475] 09 p1319 N84-18618
A comparison of radiation damage in liner ICs from cobalt-60 gamma rays and 2.2-MeV electrons
[NASA-CR-173474] 12 p1901 N84-22380
Continuous energy gamma-ray spectrometry
[DE84-006349] 14 p2123 N84-23726
An X-ray survey of variable radio bright quasars
[NASA-TM-86094] 14 p2250 N84-24512
Shuttle flight test of an advanced gamma-ray detection system
[AD-A136157] 15 p2337 N84-25030
Compton scattering of photons from electrons in thermal (Maxwellian) motion: Electron heating
[DE84-013860] 23 p3823 N84-34241
Physics of nonmagnetic relativistic thermal plasmas
[NASA-TM-86154] 24 p3965 N84-35107

COMPUTATION

NT MINIMUM VARIANCE ORBIT DETERMINATION
NT ORBIT CALCULATION

Computational analyses of unsteady flow past airfoils with flapping and/or pitching motion 01 p0002 N84-10013
Computation of influence of defects on static and fatigue strength of composites 01 p0034 N84-10217
Simulation of systolic networks with a syntax directed solver for systems of sequence equations
[AD-A130232] 01 p0064 N84-10417
Centroid scaling of citation data: Charting the history of a scientific specialty, plate tectonics 01 p0104 N84-10673
Algorithms for nonlinear programming
[AD-A130903] 01 p0122 N84-10798
Dynamic programming algorithm and analyses for nonserial networks, part 2
[AD-A130905] 01 p0123 N84-10798
Future directions in large-scale scientific computing
[DE83-013229] 01 p0124 N84-10807
A methodology for exploiting parallelism in the finite element process
[NASA-CR-172219] 01 p0127 N84-10831
Accurate computation of divided differences of the exponential function
[AD-A130306] 01 p0132 N84-10865
On the application of optical signal processing to the solution of Riccati equations
[AD-A130710] 01 p0133 N84-10869
Computation of Bessel functions of complex argument
[DE83-013528] 01 p0134 N84-10881
Computational methods for static and dynamic systems and engineering applications
[PB83-227314] 01 p0135 N84-10884
New program for the least-squares calculation of atomic energy levels
[DE83-014076] 01 p0143 N84-10941
The role of aeroelasticity in the preliminary design of helicopter rotors 02 p0172 N84-11130
Fast flutter clearance by parameter variation 02 p0172 N84-11135
Programmed M3T 300 terminals discussed 02 p0205 N84-11337
Computational studies in the interpretation of structure and motion: Summary and extension
[AD-A131598] 02 p0265 N84-11748
A nested-decomposition approach for solving staircase linear programs
[DE83-3013560] 02 p0274 N84-11792
Computation of Bessel functions of complex argument and large order
[DE83-014463] 02 p0282 N84-11851
Computational experience with the octahedral algorithm and related results
[DE83-015834] 02 p0283 N84-11854
Three-dimensional feature extraction
[AD-A131333] 02 p0294 N84-11926
Computational vortex flow aerodynamics 03 p0324 N84-12117
Computation of three-dimensional unsteady flow in rigid and deformable curved tubes 03 p0375 N84-12440
Design, development and use of the finite element machine
[NASA-CR-172250] 03 p0424 N84-12777
Applied mathematical sciences research at Argonne
[DE83-3014268] 03 p0426 N84-12788
Generalized plastic hinge concepts for 3D beam-column elements
[PB83-247981] 04 p0516 N84-13391
Vectorizing and machine-spanning techniques
[DE84-000469] 04 p0578 N84-13810
Some aerodynamic characteristics of a projectile shape with a nonaxisymmetric boattail at Mach numbers of 0.91 and 3.02
[AD-A133755] 05 p0627 N84-14125
Mathematical analysis of digital phase locked loops over fading communication channels 05 p0664 N84-14364
Continuously deforming finite element method for moving free surface heat transfer problems 05 p0683 N84-14489
Bending of beams, plates and laminates: Refined theories and comparative studies 05 p0691 N84-14540
Report on new calculations of the magnetic potential of the Earth
[NASA-TM-77329] 05 p0702 N84-14608
An overview of artificial intelligence and robotics. Volume 1: Artificial intelligence. Part C: Basic AI topics
[NASA-TM-85839] 05 p0732 N84-14805
Bayes smoothing algorithms for segmentation of images modelled by Markov random fields
[AD-A133966] 05 p0734 N84-14817
Ordering methods for sparse matrices
[AD-A133657] 05 p0735 N84-14824
Moving finite elements in 2-D
[AD-A132700] 05 p0736 N84-14831
Numerical analysis of a Stefan problem
[AD-A132823] 05 p0737 N84-14838
A collocation method for computing eigenvalues and eigenfunctions of the Laplacian
[AD-A132827] 05 p0737 N84-14839
Implementation of a subgradient projection algorithm II
[AD-A132835] 05 p0737 N84-14841
An efficient generator of uniformly distributed random deviates between zero and one
[AD-A132851] 05 p0741 N84-14865
Stimulated Cerenkov radiation beam monitor
[AD-A132817] 05 p0744 N84-14889
Focused acoustical and optical backscattering from spheres and properties of optoacoustic sources
[AD-A133744] 05 p0747 N84-14904
Site-dependent inelastic response spectra 06 p0862 N84-15620
Visual routines
[AD-A133634] 06 p0891 N84-15792
Analysis of data flow for SIMD (Single Instruction Multiple Data) systems
[AD-A133248] 06 p0895 N84-15812
Efficient large-scale finite-element computations in a CRAY environment
[DE83-014946] 06 p0896 N84-15818
The generalized Euler-Mascheroni constants
[NASA-TP-2264] 06 p0906 N84-15880
Computational spectroscopy
[DE84-003754] 07 p0971 N84-16290
On the simulation of many storage heads by a single one
[MC-IW-226/83] 07 p1053 N84-16818
On the simulation of many storage heads by one
[MC-IW-226/83] 07 p1053 N84-16819
Large scale computations
[DE84-002763] 07 p1055 N84-16836
Accuracy considerations when using some minicomputers for scientific and engineering problems
[AD-A134141] 07 p1061 N84-16878
Computation of some parameters of Lie geometries
[MC-ZW-196/83] 07 p1095 N84-16911
Dynamic meteorology; control theory and optimization. Research programme, 1983-1984
[CSIR-SWISK-31] 07 p1094 N84-17115
TERR, PERR, and GIGC: Three programs to compute verification statistics
[PB84-127521] 08 p1193 N84-17775
Modelling algorithm execution time on processor arrays
[NASA-CR-172289] 08 p1211 N84-17899
Thermodynamics library for AFOS (Automation of Field Operations and Services) programmers (THERMO LB)
[PB84-122621] 08 p1215 N84-17925
International Conference on Stiff Computation
[AD-A135265] 08 p1219 N84-17958
Computational methods in number theory, part 1
[MATH-CENTRE-TRACTS-154-PT-1] 08 p1223 N84-17990
Machine models, computational complexity and number theory 08 p1223 N84-17991
Fast arithmetic operations on numbers and polynomials 08 p1224 N84-17992
Analysis and comparison of some integer factoring algorithms 08 p1224 N84-17995
Perfect numbers and aliquot sequences 08 p1224 N84-17996
Electromagnetic near-field computations for a broadcast monopole using Numerical Electromagnetics Code (NEC)
[AD-A135975] 09 p1303 N84-18516
Development of innovative millimeter-wave broadband mixers
[AD-A136134] 09 p1310 N84-18562
A timing and memory sizing study for wavenumber analyzer
[AD-A135581] 09 p1318 N84-18611
Synthesis of efficient structures for concurrent computation
[AD-A135892] 09 p1368 N84-18930
Squeezing the most out of an algorithm in Cray FORTRAN
[DE84-003871] 09 p1369 N84-18941
Interval methods for fixed-point problems
[AD-A136323] 09 p1373 N84-18965
Analysis of an error masking scheme for parallel computations
[AD-A136372] 09 p1374 N84-18971
Rounding errors in some recursive methods used in computational probability
[PB84-124734] 09 p1379 N84-19013
On ARMA (autoregressive moving average) representations for white noise in a Markovian environment
[AD-A136354] 09 p1386 N84-19054
State of the art in eigenvalue computations 09 p1401 N84-19154
Computing theory and practice 09 p1403 N84-19167
Vectorized multigrid Poisson solver for the CDC CYBER 205 10 p1561 N84-20230

The vectorization of a ray tracing program for image generation 10 p1561 N84-20231
Temperature compensation and shunt calibration of semiconductor pressure transducers
[AD-P002686] 11 p1658 N84-20821
Effect of measurement system phase response on shock spectrum computation
[AD-P002688] 11 p1659 N84-20823
A computer code to calculate emission and transmission of infrared radiation through non-equilibrium atmospheres
[AD-A137162] 11 p1683 N84-20980
Data flow computer architecture
[DE84-004198] 11 p1704 N84-21111
On an algorithm for external triangulation of ELV polygons
[CSIR-TWISK-287] 11 p1712 N84-21162
Harmony theory: A mathematical framework for stochastic parallel processing
[AD-A137683] 11 p1714 N84-21178
Generalization of the numerical Schwarz algorithm
[DE84-003735] 11 p1718 N84-21191
NASA-wide standard administrative systems
11 p1749 N84-21415
Bibliography and abstracts of papers pertaining to applied mathematics
[AD-A137823] 11 p1750 N84-21420
Research activities of the Applied Mathematics Group
[AD-A137836] 11 p1750 N84-21422
MINTEQ: A computer program for calculating aqueous geochemical equilibria
[PB84-157148] 12 p1795 N84-21704
Modeling antennas near to and penetrating a lossy interface
[DE84-004785] 12 p1808 N84-21766
Development and preliminary tests of a new long-wave radiation parameterization 12 p1857 N84-22097
Simulations of the stratocumulus-topped boundary layer with a third-order closure model
12 p1857 N84-22098
Can cloud-top entrainment promote cloud growth?
12 p1857 N84-22100
Time dependent land and vegetation canopy temperatures 12 p1858 N84-22104
Mathematical synthesization of complex structures
12 p1876 N84-22224
Cumulative reports and publications through 31 December 1983
[NASA-CR-172326] 12 p1876 N84-22226
Efficient computer architectures for computing discrete Fourier transforms
[AD-A136109] 12 p1881 N84-22258
Numerical modeling of D-mappings with applications to chemical kinetics
[NASA-TM-84332] 12 p1893 N84-22326
Step sizes used by one-step codes for ODEs
[DE84-006317] 12 p1895 N84-22344
Step size control in ODE solvers
[DE84-006391] 12 p1895 N84-22345
Programmable masks for optical information processing 12 p1906 N84-22415
Atomic data calculations for application to the diagnostics of Tokamak plasmas. FY 1982 report
[DE84-006132] 12 p1910 N84-22446
Atmospheric turbulence simulation for Shuttle orbiter
[NASA-CR-171013] 13 p1938 N84-22602
Balancing of flexible rotors with simultaneous precise determination of influencing factors
13 p1974 N84-22808
Transient processes in an inductor system consisting of a flat coil and a multilayer conducting medium
[AD-A139053] 13 p2039 N84-23232
The accelerated light model technique of store separation as developed and used at British Aerospace, Brough 14 p2099 N84-23597
Physical aspects of computing the flow of a viscous fluid
[NASA-TM-85893] 14 p2100 N84-23605
Application of symbolic computation to the analysis of mechanical systems, including robot arms
[AD-P002940] 14 p2197 N84-24180
Solving the Poisson equation on the FPS-164 (Floating Point System-164)
[AD-A139307] 14 p2211 N84-24278
Computational modeling and mathematics applied to the physical sciences
[DE84-008252] 14 p2214 N84-24301
Optimization of space structures
14 p2245 N84-24480
A vectorized finite element method for computation of transonic tridimensional potential flows
[SNIAS-832-111-105] 15 p2257 N84-24555
The 6th International Conference on Computing Methods in Applied Sciences and Engineering
[AD-A139824] 15 p2317 N84-24906
The future of computing technology in physics: The potentials and pitfalls
[DE84-007249] 15 p2389 N84-25330
Panasonic HR-1800 hand-held computer solutions to composite materials formulas
[AD-A139798] 15 p2391 N84-25352
Synthetic spectra of red giants
15 p2422 N84-25550
A theoretical analysis of the aerodynamic and structural forces associated with a ribbon parachute canopy in steady descent 16 p2443 N84-25671
Computational Fluid Dynamics, volume 2
[VKI-LS-1984-04-VOL-2] 16 p2492 N84-25986
Numerical computation of vortical flows about wings
16 p2492 N84-25987
Implicit time dependent methods for the solution of the Euler equations. Part 2: Application to transonic flows
16 p2492 N84-25990
Guide to available mathematical software
[PB84-171305] 16 p2545 N84-26337
Computation of noise radiating from a free jet perpendicular to its axis via laser anemometry measurements
[ONERA-NT-1983-6] 16 p2554 N84-26387
Application of a global solar wind/planetary obstacle interaction computational model: Earth, Venus, Mars, Jupiter and Saturn studies 16 p2572 N84-26510
Harmony theory: Problem solving, parallel cognitive models and thermal physics
[AD-A140877] 17 p2759 N84-27515
Application of supercomputers to computational aerodynamics
[NASA-TM-85965] 18 p2785 N84-27680
Numerical optimization design of advanced transonic wing configurations
[NASA-TM-85950] 18 p2792 N84-27718
Application of recurrent formulas for solving main geodetic problems 18 p2861 N84-28166
Identification of aerosol composition from multi-wavelength lidar measurements
[NASA-CR-173445] 18 p2877 N84-28266
Numerical methods for nonlinear elliptic eigenvalue problems
[DE84-010408] 18 p2926 N84-28558
Criteria for efficiency of experiments in remote sensing
19 p2978 N84-28876
LANDSAT-D investigations in snow hydrology
[E84-10156] 19 p3039 N84-29277
Calculation of natural ventilation and comfort
[DE84-009215] 19 p3071 N84-29485
A machine learning approach to student modeling
[AD-A141704] 19 p3080 N84-29547
Strategic computing and survivability research
[AD-A141717] 19 p3081 N84-29548
Application of asymptotic methods of theoretical computer science and combinatorics to problems in the design of VLSI circuits
[AD-A142262] 19 p3090 N84-29617
Transport properties of concentrated solutions
[DE84-006495] 20 p3181 N84-30210
Application of molecular dynamics to macroscopic particles
[DE84-011066] 20 p3186 N84-30244
Comparison of methods for calculating energy release rates
[DE84-012231] 20 p3204 N84-30350
Computational method for thermoviscoelasticity with application to rock mechanics
[DE84-003087] 20 p3242 N84-30585
Proton-induced single event upsets in 71 Earth-satellite environments
[AD-A142435] 20 p3272 N84-30771
Design issues in parallel architectures for artificial intelligence
[AD-A142482] 20 p3278 N84-30809
Smoothed local symmetries and their implementation
[AD-A142489] 20 p3279 N84-30811
On the design of a Pipelined/Systolic finite element system
[AD-A142558] 20 p3281 N84-30830
Boolean computation of optimum hitting sets
[DE84-012920] 20 p3283 N84-30842
Computation of inviscid transonic flow using flux vector splitting in generalized coordinates
21 p3323 N84-31087
Reflector antennas with low sidelobes, low cross polarization, and high aperture efficiency
[NASA-CR-174670] 21 p3383 N84-31464
User's guide: Computer program for analysis of two-dimensional beam-columns with nonlinear supports (CBNTBM)
[AD-A143170] 21 p3466 N84-31974
A model of asynchronous iterative algorithms for solving large, sparse, linear systems
[NASA-CR-172418] 21 p3469 N84-31988
Tutorial: Fuzzy sets and applications
[INPE-3168-PRE/538] 21 p3471 N84-31998
Analysis of parametrically excited large vibration systems
[AD-A143283] 22 p3611 N84-32879
Summary of research in applied mathematics, numerical analysis and computer science at the Institute for Computer Applications in Science and Engineering
[NASA-CR-172421] 22 p3633 N84-33024
Research in computer science
[NASA-CR-173857] 22 p3637 N84-33056
MECA: A supercomputer for Monte Carlo
[DE84-014129] 22 p3638 N84-33066
Quasiconformal mappings and grid generation
[NASA-CR-173920] 22 p3644 N84-33105
On accuracy conditions for the numerical computation of waves
[NASA-CR-172433] 22 p3645 N84-33111
Some masses for population 1 and 2 cepheids
[DE84-014032] 22 p3677 N84-33311
Multipoint method for sample temperature measurement in a mirror furnace
[TS-14-83] 23 p3752 N84-33789
Report of the working group on large-scale computing in aeronautics
[AGARD-AR-209] 23 p3813 N84-34177
Computational modeling and mathematics applied to the physical sciences
[PB84-180512] 23 p3819 N84-34222
Optical computing research
[AD-A143994] 23 p3825 N84-34258
Processing the results of fatigue testing of structural materials damaged by corrosion
24 p3873 N84-34541
Matched evaporation of alloys in a vacuum
24 p3873 N84-34543
Summaries of the FY 1983 applied mathematical sciences research program
[DOE/ER-0157/1] 24 p3950 N84-35010

COMPUTATIONAL FLUID DYNAMICS

Numerical computation of base flow for a projectile at transonic speeds
[AD-A130293] 01 p0004 N84-10027
Introduction to computational aerodynamics
[AD-A130717] 01 p0005 N84-10031
A review of nonequilibrium effects and surface catalysis on shuttle heating 01 p0024 N84-10154
Fingers in a Hele-Shaw cell with surface tension
[AD-A130548] 01 p0130 N84-10852
Moving finite elements in 2-D
[AD-A131279] 02 p0281 N84-11842
Transonic configuration design (fighter)
03 p0318 N84-12082
Simulation of turbulent flows with a point vortex method 03 p0324 N84-12119
Numerical solutions of the Euler equations simulating vortex flows around wings 03 p0324 N84-12120
The treatment of convected vortices in compressible potential flow 03 p0324 N84-12121
A contribution to the problem of vortex breakdown
03 p0325 N84-12125
Aspects of second- and third-order panel methods demonstrated for the two-dimensional flat plate problem
[NLR-TR-81074-U] 03 p0373 N84-12433
Results of a new version of the LTRAN2-NLR (LTRANV) for unsteady viscous transonic flow computations
[NLR-TR-81078-U] 03 p0374 N84-12434
Turbulence modelling: A state-of-the-art review
[CFD/83/3] 03 p0374 N84-12435
A revised two-equation model of turbulence
[CFD/83/5] 03 p0374 N84-12436
Numerical solution of the three-dimensional unsteady Euler equations
[AD-A132034] 03 p0425 N84-12783
New conformal solution theory
[PB83-249441] 03 p0457 N84-13008
XTRAN2L: A program for solving the general-frequency unsteady transonic small disturbance equation
[NASA-TM-85723] 04 p0479 N84-13150
Complex eigenvalues for the stability of Couette flow
[NASA-CR-172251] 04 p0531 N84-13492
Computation of viscous flow in curved ducts and comparison with experimental data
[NASA-TM-83548] 04 p0532 N84-13494
Computation of compressible flows using finite elements and optimization techniques 05 p0678 N84-14456
Further development of a method for computing three-dimensional subsonic viscous flows in turbofan lobe mixers
[NASA-CR-168304] 05 p0679 N84-14462
Computational methods for complex flowfields
[AD-A133970] 05 p0680 N84-14467
Eulerian and Lagrangian predictions of particulate two phase flows
[KU-SFB-80/T/222] 05 p0682 N84-14481

Computation of steady internal flows using integral representation methods with finite series expansions
06 p0833 N84-15418
An assumed deviatoric stress-velocity-pressure mixed finite element method for unsteady convective, incompressible viscous flow 06 p0833 N84-15420
Fully-coupled analysis of jet mixing problems. Part 1. Shock-capturing model, SCIPVIS
[NASA-CR-3761] 06 p0834 N84-15425
Introduction to computational fluid dynamics — conferences
[VKI-LS-1983-01] 06 p0834 N84-15429
Equations of fluid flow, finite difference approximations and basic mathematical properties of each
06 p0834 N84-15430
An introduction to numerical methods suitable for the Euler equations 06 p0835 N84-15431
Finite difference methods for convective-diffusive equations 06 p0835 N84-15432
Three-dimensional wake of a swept wing
06 p0838 N84-15458
Computational Fluid Dynamics, volume 1 — conferences
[VKI-LS-1983-04-VOL-1] 06 p0838 N84-15461
Computational methods for ideal compressible flow
06 p0838 N84-15462
Higher order approximations in fluid mechanisms: Compact to spectral 06 p0839 N84-15466
Computational Fluid Dynamics, volume 2 — conferences
[VKI-LS-1983-04-VOL-2] 06 p0839 N84-15467
Least squares and domain decomposition methods applied to the numerical solution of nonlinear problems in fluid dynamics 06 p0839 N84-15468
Numerical computation of transonic flow governed by the full-potential equation 06 p0839 N84-15469
Three-dimensional flow calculations on a hypothetical steam turbine last stage 06 p0841 N84-15481
Wet steam flow in L. P. turbines — low pressure (LP)
06 p0841 N84-15483
Fully coupled calculation of fluid flows with limited use of computer storage
[DE84-002218] 06 p0844 N84-15508
A local-relaxation method for solving convection-diffusion equations
[NLR-MP-82030-U] 06 p0903 N84-15862
A numerical investigation of the multiple vortex phenomenon: Vortex number and structure as a function of swirl ratio 06 p0931 N84-16049
Computational aerodynamics and supercomputers
[NASA-TM-85887] 07 p0946 N84-16139
Mach 0.6 to 3.0 flows over rectangular cavities
[AD-A134579] 07 p0948 N84-16153
Viscous Effects in Turbomachines
[AGARD-CP-351] 07 p0954 N84-16188
Progress in computation of viscous inviscid interaction
07 p0954 N84-16189
A coupling method for the inverse mode calculation of transonic internal flows with a shock wave
07 p0955 N84-16194
An experimental method for analyzing shock-boundary layer interactions in cascades 07 p0955 N84-16195
Compressor and turbine blade boundary layer separation 07 p0955 N84-16196
Aerodynamic computation method of airfoil cascades subjected to viscous flow 07 p0956 N84-16198
Computing the three dimensional boundary layer in a compressor 07 p0956 N84-16200
Viscous effects and heat transfer in a calculation method for axialsymmetric flow in multistage turbomachines using the stream function 07 p0956 N84-16201
Experimental verification of an endwall boundary layer prediction method 07 p0958 N84-16211
Application of the method of lines for solutions of the Navier-Stokes equations using a nonuniform grid distribution
[NASA-CR-173180] 07 p1060 N84-16870
Programs for calculating quasi-three-dimensional flow in a turbomachine blade row
[NASA-TM-83588] 08 p1098 N84-17138
Computation of potential flows with embedded vortex rings and applications to helicopter rotor wakes
[NASA-CR-166542] 08 p1156 N84-17526
Studies and vorticity effects by the Euler equations with emphasis on supersonic flow fields
[AD-A135118] 08 p1157 N84-17535
Unsteady viscous transonic flow computations using LTRAN2-NLR code coupled with Green's lag-entrainment method
[NLR-MP-82052-U] 09 p1253 N84-18181
An experimental and analytical study on spray flow field by liquid/gas coaxial injector elements. 3: Application for the combustion performance prediction model of LO2/LH2 rocket combustion
[NAL-TR-769] 09 p1274 N84-18317
Reattachment of a three-dimensional, incompressible jet to an adjacent axisymmetric inclined surface
[AD-A136268] 09 p1314 N84-18584
Rotordynamic forces developed by labyrinth seals
[AD-A136217] 09 p1316 N84-18599
Three-dimensional boundary layer calculations on wings, starting from the fuselage
[NLR-MP-82060-U] 09 p1317 N84-18603
Multigrid methods for boundary integral equations
[NLR-MP-82059-U] 09 p1379 N84-19011
Civil component program Integrated Wing-Engine-System (IFAS), phase 1 — computational methods
[BMFT-FB-W-83-018] 10 p1429 N84-19343
Simulation applications at NASA Ames Research Center
[NASA-TM-85846] 10 p1432 N84-19362
Modular design attitude control system
[NASA-CR-170996] 10 p1438 N84-19392
An analytical study of the effects of surface roughness on a compressible turbulent boundary layer
[AD-A136911] 10 p1492 N84-19758
An infrastructure for computational fluid dynamics for computer aided design
[NLR-MP-82046-U] 10 p1495 N84-19774
Model equations describing unsteady fluid motion
[DFVLR-MITT-83-17] 10 p1495 N84-19775
Newton like: Minimal residual methods applied to transonic flow calculations
[NASA-CR-172305] 10 p1568 N84-20275
Applied mathematics of transport theory
[DE84-004135] 10 p1590 N84-20422
Combustion Fundamentals Research
[NASA-CP-2309] 11 p1608 N84-20525
Turbulent swirling combustion
11 p1609 N84-20535
Application of improved numerical schemes
11 p1610 N84-20537
Fast algorithms for combustion kinetics calculations: A comparison 11 p1612 N84-20554
Random vortex method for combusting flows
11 p1613 N84-20558
Computation of viscous flow about advanced projectiles
[AD-A137935] 11 p1653 N84-20790
A computational method for predicting the effects of varying Reynolds number and dynamic pressure on flexible wings at transonic speeds 12 p1764 N84-21508
Inlet flowfield investigation. Part 2: Computation of the flow about a supercruise forebody at supersonic speeds
[NASA-CR-172315] 12 p1766 N84-21516
Application of computational procedures in aerodynamic design
[NLR-MP-83012-U] 12 p1766 N84-21521
Computational vortex flow aerodynamics
[NLR-MP-83017-U] 12 p1766 N84-21522
Computational methods for subsonic and transonic aerodynamic design
[AD-B079994] 12 p1767 N84-21524
Solid fuel combustion chamber
[VTH-LR-392] 12 p1803 N84-21756
A solution to the problem of the flow around a circular cylinder between two parallel plates with the Monte Carlo method
[PREPRINT-791] 12 p1817 N84-21846
Transonic flow calculations using triangular finite elements 13 p1925 N84-22529
Three-dimensional nonequilibrium viscous shock-layer flow over the Space Shuttle orbiter
13 p1925 N84-22530
Solid carbon oxidation and radiation in exhaust plumes
13 p1941 N84-22623
Separation flow past bodies with fixed separation sites
13 p1970 N84-22784
More precise numerical simulation of transonic flow through passages in turbomachines
13 p1970 N84-22786
Turbulence modeling
[NASA-TM-85889] 13 p1989 N84-22913
The changing scene in computational fluid dynamics
[AD-A138661] 13 p1989 N84-22914
The equicontinuous structure relation and extension of functions defined on G-spaces
[MC-ZW-192/83] 13 p2034 N84-23194
Turbulent diffuser flow studies related to the design of the ETW diffuser 14 p2095 N84-23572
Ground/flight test techniques and correlation
14 p2096 N84-23574
Numerical aerodynamic analysis of a free falling autorotating plate
[AD-A138900] 14 p2102 N84-23612
Navier-Stokes calculations for the vortex of a rotor in hover
[NASA-TM-85894] 15 p2255 N84-24540
Flow between rotating disks. Part 1: Basic flow
15 p2315 N84-24890
Flow between rotating disks. Part 2: Stability
15 p2315 N84-24891
Computational modeling of jet induced mixing of cryogenic propellants in low-G
[NASA-TM-83703] 15 p2331 N84-25000
High speed inviscid compressible flow by the finite element method
[NASA-CR-173556] 15 p2332 N84-25002
Conical flows with leading edge vortices
15 p2333 N84-25013
Calculation of aerodynamic characteristics of wings with thickness and camber by a new method based on the modified vortex lattice method
[TAE-493] 16 p2438 N84-25640
The computation of inviscid-viscous coupled equations by a finite element method
[ONERA-NT-1983-1] 16 p2488 N84-25957
Contribution to the study of a numerical implicit method for solving the Euler equations
[ONERA-NT-1983-8] 16 p2488 N84-25958
Numerical aspects of unsteady flow calculations
16 p2489 N84-25968
Computational Fluid Dynamics, volume 1
[VKI-LS-1984-04-VOL-1] 16 p2491 N84-25980
Multigrid techniques: The 1984 guide with applications to fluid dynamics 16 p2491 N84-25981
Finite elements in computational fluid dynamics
16 p2491 N84-25982
Generation of three dimensional grids through elliptic differential equations 16 p2491 N84-25983
The importance of dynamically-adaptive grids in the numerical solution of partial differential equations
16 p2492 N84-25984
Recent developments of spectral and pseudospectral methods in fluid dynamics 16 p2492 N84-25985
Computational Fluid Dynamics, volume 2
[VKI-LS-1984-04-VOL-2] 16 p2492 N84-25986
Implicit time dependent methods for the solution of the Euler equations. Part 2: Application to transonic flows
16 p2492 N84-25990
Solution of the compressible Navier-Stokes equations: Applications to complex turbulent flows
16 p2492 N84-25991
Modification of the eta-invariant code for application of a modular grid network
[AD-A135817] 16 p2547 N84-26347
The method of complex characteristics for design of transonic compressors 17 p2599 N84-26659
Aerodynamic design using numerical optimization
[NASA-TM-85550] 17 p2599 N84-26661
A solution procedure for three-dimensional incompressible Navier-Stokes equation and its application
[NASA-TM-85978] 17 p2600 N84-26666
Analytical description of hypersonic gas jet discharged into motionless medium or into supersonic companion stream 17 p2644 N84-26914
Method of calculating strong viscous interaction at delta wing 17 p2644 N84-26918
Numerical simulation of shock/turbulent boundary layer interactions over 2-D compression corners
17 p2666 N84-27000
Multiple buoyancy driven flows in a vertical cylinder heated from below
[NASA-CR-173626] 17 p2666 N84-27001
A numerical study of the 2- and 3-dimensional unsteady Navier-Stokes equations in velocity-vorticity variables using compact difference schemes
[NASA-CR-172353] 17 p2667 N84-27004
A numerical view on strong viscous-inviscid interaction
[NLR-MP-83049-U] 17 p2669 N84-27020
Introduction to the theory of fluid and magnetofluid turbulence
[IPPJ-670] 17 p2766 N84-27565
Computation of imaginary-side pressure distributions over the flexible walls of the test section insert for the 0.3-M transonic cryogenic tunnel
[NASA-CR-172383] 18 p2785 N84-27678
PAN AIR: A computer program for predicting subsonic or supersonic linear potential flows about arbitrary configurations using a higher order panel method. Volume 1: Theory document (version 1.1)
[NASA-CR-3251] 18 p2788 N84-27697
An improved version of the k-W model of turbulence
[CFD/83/1] 18 p2837 N84-28011
Configuration design studies and wind tunnel tests of an energy efficient transport with a high-aspect-ratio supercritical wing
[NASA-CR-3524] 19 p2955 N84-28727
PAN AIR summary document (version 1.0)
[NASA-CR-3250] 19 p2957 N84-28741
A practical adaptive-grid method for complex fluid-flow problems
[NASA-TM-85989] 19 p2958 N84-28745
Numerical simulation of boundary-layer transition
[NASA-TM-85984] 19 p2958 N84-28746

Calculation of unsteady aerodynamics for four AGARD standard aeroelastic configurations
[NASA-TM-85817] 19 p2958 N84-28747
Transonic interference flow-field analysis for wing-body-pylon-store
[AD-A141811] 19 p2959 N84-28754
Simulation of vehicle aerodynamics by means of a general-purpose computer program
[CFD/84/4] 19 p2960 N84-28759
Application of the implicit MacCormack scheme to the parabolized Navier-Stokes equations
[NASA-CR-166579] 19 p3020 N84-29148
User's guide to the NOZL3D and NOZLIC computer programs
[NASA-CR-168173] 19 p3020 N84-29150
Conforming finite element methods for incompressible and nearly incompressible continua
[AD-A141117] 19 p3023 N84-29171
Note on the displacement effect in a spinning fluid
[AD-A141599] 19 p3024 N84-29175
Oscillations of a reservoir with a fluid on the free surface of which a membrane is located
[AD-A142127] 19 p3024 N84-29179
Acta mechanica sinica (Selected articles)
[AD-A142128] 19 p3024 N84-29180
Some recent progress in steep front calculations for porous flow
[DE84-006249] 19 p3025 N84-29183
Super upwinding elements of doubt and discrete differences of opinion on the numerical muddling of the incomprehensible defective confusion equation
19 p3025 N84-29188
Lubricant jet flow phenomena in spur and helical gears with modified center distances and/or addendums for out-of-mesh conditions
[NASA-TM-83723] 19 p3031 N84-29224
Study of the mapping of Navier-Stokes algorithms onto multiple-instruction/multiple-data-stream computers
[NASA-TM-85945] 19 p3080 N84-29544
An efficient approximate factorization implicit scheme for the equations of gasdynamics
[NASA-TM-85957] 19 p3062 N84-29556
Algorithms for zonal methods and development of three dimensional mesh generation procedures
[AD-A141692] 19 p3066 N84-29592
Random-choice solutions for two-dimensional and axisymmetric supersonic flows 20 p3168 N84-30115
Elliptic grid generation for three-dimensional geometries 20 p3168 N84-30117
Numerical simulation of autorotation
20 p3168 N84-30118
Freejets of rotationally relaxing diatomic gases
20 p3169 N84-30119
Viscous computation of a space shuttle flow field
[NASA-TM-85977] 20 p3183 N84-30225
Generalized roughness effects on turbulent boundary layer heat transfer. A discrete element predictive approach for turbulent flow over rough surfaces
[AD-A141943] 20 p3183 N84-30227
Progress in the development of an intermittency model of turbulence
[CFD/83/7] 20 p3188 N84-30255
Review of NASA's (National Aeronautics and Space Administration) Numerical Aerodynamic Simulation Program
[NASA-CR-173842] 20 p3276 N84-30799
Computational aerodynamics and artificial intelligence
[NASA-TM-85994] 21 p3324 N84-31089
Potential application of artificial concepts to aerodynamic simulation
[NASA-TM-85976] 21 p3324 N84-31093
Shock-free transonic airfoil design by a hodograph method
[AD-A142752] 21 p3325 N84-31098
Computational Methods: 1984 JPM Specialist Session
[AD-A142923] 21 p3354 N84-31276
Stationary state computational fluid dynamics for aero-propulsion devices 21 p3354 N84-31278
Models for calculating reaction rates in turbulent, reacting flows 21 p3355 N84-31281
A space-marching method for the Navier-Stokes equations for internal flows 21 p3397 N84-31550
Computational fluid mechanics utilizing the variational principle of modeling damping seals
[NASA-CR-171114] 21 p3398 N84-31553
Transition bifurcation branches in non-linear water waves
[CAR-8418] 21 p3398 N84-31556
A selection principle in Benard-type convection
[NASA-CR-173869] 21 p3398 N84-31559
Nonstationary oblique-shock-wave reflections in air
[UTIAS-270] 21 p3399 N84-31562
Analytical and numerical study of the flow in a shock tube with an area change at the diaphragm section
[UTIAS-TN-255] 21 p3399 N84-31563
Computer codes for fluid-structure interactions
[DE84-011068] 21 p3401 N84-31578
Unsteady transonic flow in cascades
[NASA-TM-83780] 22 p3530 N84-32351
Analysis of three-dimensional transonic compressors
[NASA-CR-166580] 22 p3531 N84-32356
Computational fluid dynamics at the ICMA (Institute of Computational Mathematics and Applications)
[AD-A143510] 22 p3594 N84-32759
Second- and third-order upwind difference schemes for hyperbolic conservation laws
[NASA-TM-85959] 22 p3644 N84-33106
Trends in computational capabilities for fluid dynamics
[NASA-TM-86012] 23 p3689 N84-33383
Computational modelling of jet induced mixing in cryogenic propellant tanks in low-g
23 p3745 N84-33742
Thermodynamic analysis of multicomponent working fluids for Rankine bottoming cycle applications
[DE84-014843] 23 p3757 N84-33814
Report of the working group on large-scale computing in aeronautics
[AGARD-AR-209] 23 p3813 N84-34177
Flute instability of plasma in a gas-dynamic trap
[DE84-013348] 23 p3828 N84-34284
Application of computational fluid dynamics in aircraft design
[AD-A144323] 24 p3854 N84-34441
On numerical methods in non-Newtonian flows
[DE84-701276] 24 p3899 N84-34691
Fluid layer between infinite elastic plates. I: Mathematics and intensity vectors
[AD-A144373] 24 p3901 N84-34700
High Marangoni Number convection in a square cavity: Additional results
[AD-A144485] 24 p3901 N84-34701
Development of a design-oriented Navier-Stokes cascade analysis
[AD-A144594] 24 p3901 N84-34703
Enthalpy damping for the steady Euler equations
[NASA-TM-86006] 24 p3950 N84-35009

COMPUTATIONAL GRIDS
Optimization of finite element grids using interpolation error 01 p0128 N84-10835
Moving finite elements in 2-D
[AD-A131279] 02 p0281 N84-11842
Analysis of finite difference discretizations of Navier-Stokes problems on mapped domains
02 p0283 N84-11858
Variational method for adaptive grid generation
[DE83-017312] 04 p0583 N84-13850
Solution of Poisson equations for 3-dimensional grid generations --- computations of a flow field over a thin delta wing
[NASA-TM-85857] 04 p0588 N84-13886
An application of the finite element method to the solution of low Reynolds number, incompressible flow around a Joukowski aerofoil, with emphasis on automatic generation of grids
[AD-A133008] 05 p0628 N84-14127
Solving elliptic-parabolic problems
[AD-A133726] 05 p0734 N84-14822
Numerical modeling and fast-solver calculation of approximately normal shocks
[NLR-MP-82026-U] 06 p0902 N84-15856
Application of the method of lines for solutions of the Navier-Stokes equations using a nonuniform grid distribution
[NASA-CR-173180] 07 p1060 N84-16870
A portable vector-code for autonomous multigrid modules
[MC-NW-154/83] 07 p1065 N84-16914
Multigrid methods for problems with a small parameter in the highest derivative
[MC-NW-158/83] 07 p1066 N84-16920
Termination strategies for Newton iteration in full multigrid methods
[MC-NW-159/83] 07 p1066 N84-16921
The effect of the artificial far field boundary on a finite different approximation of the Navier-Stokes equations for a compressible fluid
[AD-A135152] 08 p1157 N84-17536
L2-projection for transferring data between finite element meshes
[DE84-000063] 08 p1221 N84-17973
Automatic adaptive grid refinement for the Euler equations
[NASA-CR-173161] 08 p1222 N84-17977
A cooperative program to stimulate student involvement through the MIT Undergraduate Research Opportunity Program
[NASA-CR-173300] 08 p1237 N84-18086
Calculating C-grids with fine and embedded mesh regions
[CFDL-TR-83-7] 08 p1238 N84-18090
Analysis of three-dimensional viscous internal flows
[AD-A135782] 09 p1315 N84-18592
Finite element grid optimization
[AD-A136025] 09 p1378 N84-19001
Multigrid methods for boundary integral equations
[NLR-MP-82059-U] 09 p1379 N84-19011
BIMOND: Monotone bivariate interpolation code (preliminary documentation)
[DE84-004159] 10 p1565 N84-20252
Adaptive grid generation for numerical solution of partial differential equations
[AD-A136985] 10 p1570 N84-20289
Computation of viscous flow about advanced projectiles
[AD-A137935] 11 p1853 N84-20790
Turbulence structures associated with the bursting event
[NASA-TM-85944] 12 p1815 N84-21831
A Lagrangian method for a two layer shallow water model 12 p1853 N84-22068
Surface grid generation for wing-fuselage bodies
12 p1870 N84-22186
A collection of procedures for defining airplane surfaces for input to PANAIR 12 p1875 N84-22220
The computation of mesh configurations for three-dimensional flow analysis
12 p1875 N84-22221
Grid-based line drawing quantization
[AD-A138503] 12 p1884 N84-22278
On the grid generation methods in harmonic mapping on plane and curved surfaces
[NASA-CR-172331] 12 p1893 N84-22327
MOLAG: A method of lines adaptive grid interface for nonlinear partial differential equations
[DE84-009161] 15 p2399 N84-25396
Special methods for spline functions associated to uniform grids
[HMI-B-381] 15 p2399 N84-25399
Modification of the eta-invariant code for application of a modular grid network
[AD-A135817] 16 p2547 N84-26347
Software development based on multigrid techniques
[GMD-84] 17 p2751 N84-27459
Parameter studies of gear cooling using an automatic finites element mesh generator
[NASA-TM-83721] 18 p2849 N84-28087
A practical adaptive-grid method for complex fluid-flow problems
[NASA-TM-85989] 19 p2958 N84-28745
Conduct of the International Multigrid Conference
[NASA-CR-173823] 19 p3090 N84-29618
Elliptic grid generation for three-dimensional geometries 20 p3168 N84-30117
Grid-size reduction in flow calculations on infinite domains by higher-order far-field asymptotics in numerical boundary conditions
[NLR-MP-83029-U] 20 p3187 N84-30253
GAME: An interactive graphic system for automatic mesh generation
[CISE-2211] 20 p3275 N84-30790
Investigation of criteria enabling a two-dimensional grid to evolve while minimizing errors
[CETIM-100980] 21 p3467 N84-31982
Multiple grid methods for equations of the second kind with applications in fluid mechanics
[MATH-CENTRE-TRACTS-163]
21 p3474 N84-32018
Aerodynamic heating computations for projectiles. Volume 3: BRL interactive plotting program (BRLINPLOT)
[AD-A143254] 22 p3532 N84-32361
Characteristics and capacities of the NASA Lewis Research Center high precision 6.7- by 6.7-m planar near-field scanner
[NASA-TM-83785] 22 p3598 N84-32789
Numerical diffraction by a uniform grid
[DE84-012861] 22 p3646 N84-33121
Supraconvergence and functions that sum to zero on cycles
[DE84-013889] 23 p3818 N84-34210
Research on topics in perturbation methods, transonic flow theory, numerical analysis and adaptive grid generation
[AD-A143641] 23 p3833 N84-34315

COMPUTER AIDED DESIGN
NT IPAD
Computer-Aided Design and Analysis of Digital Guidance and Control Systems
[AGARD-LS-128] 01 p0014 N84-10093
Design environments and the user interface for CAD of control systems 01 p0015 N84-10095
Modeling and simulation techniques
01 p0015 N84-10096
Numerical aspects of control design computations
01 p0015 N84-10097

Direct digital design via pole placement techniques
01 p0015 N84-10099
Systematic computer aided control design
01 p0015 N84-10100
China report: Science and technology, no. 206
[JPRS-84474] 01 p0118 N84-10766
YIDOYU-1: Computer system for optimal wing design
01 p0118 N84-10768
Computer-Aided Design and Evaluation Techniques (CADET)
[AD-A130146] 01 p0121 N84-10784
CAD/CAM: Influencing the skilled trades
[DE83-015188] 01 p0125 N84-10812
Investigation of air transportation technology at Princeton University 02 p0169 N84-11106
Preliminary Aeroelastic Design of Structures (PADS) methods development and application
02 p0170 N84-11117
The development of FAST-FLOW (a program for flutter optimization to satisfy multiple flutter requirements)
02 p0171 N84-11124
Aeroelasticity and optimization at the design stage
02 p0172 N84-11131
Computational studies in the interpretation of structure and motion: Summary and extension
[AD-A131598] 02 p0265 N84-11746
An approach to expert systems for mechanical design
[AD-A131340] 02 p0272 N84-11777
Computer system design environment software development plan
[AD-A131651] 03 p0420 N84-12747
Robotics: An introduction to today's robot and future trends
[AD-A132070] 03 p0423 N84-12768
Computational tool for the design of ultrasonic systems
[DE83-018092] 03 p0431 N84-12824
An application of nonlinear programming to the design of regulators of a linear-quadratic formulation
[NASA-CR-172253] 04 p0515 N84-13380
Computer-aided synthesis and design of monolithic microwave GaAs MESFET amplifiers
[AD-A132474] 04 p0525 N84-13452
Generating three-dimensional surface models of solid objects from multiple projections
[AD-A132392] 04 p0580 N84-13824
Automated design of microprocessor-based digital filters
[AD-A132214] 04 p0581 N84-13832
Advances in computer-aided process planning
[PB83-252254] 05 p0664 N84-14362
A knowledge based approach to VLSI CAD
[AD-A133692] 05 p0675 N84-14434
Computer aided techniques for crew station design, work-apace Organizer-WORG, workstation layout Generator-WOLAG
[AD-A132981] 05 p0716 N84-14693
The use of a microcomputer system as an aid to classical and digital control system design and analysis
[AD-A132945] 05 p0720 N84-14718
The PET/MAESTRO: A user's view — software design system 05 p0724 N84-14750
Hypothesizing channels through free-space in solving the findpath problem
[AD-A133632] 05 p0732 N84-14810
Towards a modularity of software conceived for the requirement of the user 06 p0769 N84-15040
Computer graphics techniques for aircraft EMC analysis and design 06 p0771 N84-15055
CASCADE: A design environment for future avionic systems 06 p0772 N84-15057
CADAS: A computer aided design tool for avionic systems 06 p0773 N84-15065
Thermal analysis research applicable to space station technology needs
[NASA-TM-84658] 06 p0834 N84-15426
Application of interactive computer graphics in finite element analysis 06 p0856 N84-15575
Computer-Aided Structural Engineering (CASE) project. User's guide: Computer graphics program for generation of engineering geometry (SKETCH)
[AD-A133600] 06 p0861 N84-15611
The 2nd European Conference on Computer Aided Design in Small and Medium-Size Industries
[AD-A129389] 06 p0897 N84-15821
Computer-Aided Structural Engineering (CASE) project. Reference manual: Computer graphics program for generation of engineering geometry (SKETCH)
[AD-A133493] 06 p0898 N84-15828
Off-line graphics processing: A case study
[DE84-002420] 06 p0898 N84-15832
Structural optimization: Challenges and opportunities
[NASA-TM-85741] 07 p1016 N84-16591
AESOP: An interactive computer program for the design of linear quadratic regulators and Kalman filters
[NASA-TP-2221] 07 p1057 N84-16843
The evaluation/validation process: Practical considerations and methodology for the evaluation of phenomenological data 07 p1086 N84-17064
Cylindrical microstrip array: C-band beacon antenna array with 48 rectangular radiating elements fed in-phase
[AD-A135144] 08 p1144 N84-17442
Constraint driven synthesis of hardware design
08 p1207 N84-17870
Initial graphics exchange specification test library, version 1.3
[PB84-102144] 08 p1214 N84-17922
Computer programs for helicopter high speed flight analysis
[AD-A136376] 09 p1255 N84-18191
Computer program for preliminary helicopter design
[AD-A136026] 09 p1256 N84-18197
Development and application of optimization techniques for composite laminates
[AD-A135632] 09 p1276 N84-18330
The manufacture and finishing of aluminium extrusion dies 09 p1293 N84-18447
Computerised data acquisition and control methods as related to mechanisms testing — spacecraft mechanisms 09 p1296 N84-18473
The vocoder project
[AD-A135820] 09 p1302 N84-18512
VLSI (Very Large Scale Integrated) design of a 16 bit very fast pipelined carry look ahead adder
[AD-A136356] 09 p1306 N84-18540
LSI (Large Scale Integrated) design for testability: Design, demonstration and testability analysis
[AD-A135899] 09 p1308 N84-18550
A structured design methodology for VLSI systems
[AD-A135725] 09 p1306 N84-18554
Design and analysis of a generalized class of fin-line filters
[AD-A136050] 09 p1309 N84-18558
Design optimization of marine reduction gears
[AD-A136352] 09 p1325 N84-18656
POSTOP: Postbuckled open-stiffener optimum panels, user's manual
[NASA-CR-172260] 09 p1330 N84-18682
Optimal design of friction-braced frames under seismic loading
[PB84-119288] 09 p1335 N84-18714
Simulation tools for digital LSI (Large Scale Integration) design
[AD-A136116] 09 p1369 N84-18938
A Systolic Design Rule Checker (SDRC)
[AD-A136194] 09 p1378 N84-19006
An engineering data management system for computer aided design
[NLR-MP-82050-U] 09 p1405 N84-19180
A survey of the Control system Analysis and Synthesis Program (CASPAR) package for Aeroapace Research
[VTH-LR-336] 10 p1423 N84-19304
SKETCH: A computer program for plotting a transport airplane configuration in conceptual design
[VTH-LR-388] 10 p1429 N84-19348
MANIP and MINIP, new modeling tools for the thermal engineer 10 p1443 N84-19425
ESATAN: A thermal network analysis computer program 10 p1443 N84-19426
Design, selection and simulation of air conditioning systems by computer. Part 3: Program data preparation and reference manual
[CSIR-ME-1465-PT-3] 10 p1471 N84-19604
Research in VLSI systems
[AD-A137398] 10 p1486 N84-19715
Development of technology, circuit design and simulation procedures for Very Large Scale Integration (VLSI) systems, volume 1
[BMFT-FB-T-83-170-VOL-1] 10 p1487 N84-19724
Development of technology, circuit design and simulation procedures for Very Large Scale Integration (VLSI) systems, volume 2
[BMFT-FB-T-83-170-VOL-2] 10 p1487 N84-19725
An infrastructure for computational fluid dynamics for computer aided design
[NLR-MP-82046-U] 10 p1495 N84-19774
Computer aided synthesis of a satellite antenna structure with probabilistic constraints 10 p1512 N84-19899
VLSI circuit simulation using a vector computer
10 p1559 N84-20215
Reliability and maintainability assessment factors for reliable fault-tolerant systems 11 p1616 N84-20574
Tools for active control system design
11 p1617 N84-20582
A data structure for VLSI synthesis and verification
[AD-A137880] 11 p1647 N84-20769
Kinematic and dynamic analysis of high-speed intermittent-motion mechanisms
[AD-A137903] 11 p1665 N84-20862
CAD/CAM technology working group report IDA/OSD R/M (Institute for Defense Analyses/Office of the Secretary of Defense Research and Maintainability) study
[AD-A137761] 11 p1666 N84-20867
Graphics specification for graphical requirements for computer-aided control system design
[DE84-004367] 11 p1708 N84-21135
An interactive system for the analysis and constrained minimization of induced drag of aircraft configurations (SAMID)
[NLR-MP-82057-U] 12 p1767 N84-21523
Multivariable digital flight control design for the FPCC (Flight propulsion control coupling) aircraft
[AD-A138093] 12 p1772 N84-21556
Fuel effects on gas turbine engine combustion
[AD-A138385] 12 p1803 N84-21753
Development of probabilistic rigid pavement design methodologies for military airfields
[AD-A138212] 12 p1804 N84-21760
VLSI research, semi-annual technical R&D (Research and Development)
[AD-A138339] 12 p1812 N84-21813
Printed circuit board layout by microcomputer
[AD-A138427] 12 p1813 N84-21816
Displacement angle relation for the cross crank mechanism: An exact kinematic measure synthesis
[WTHD-155] 12 p1823 N84-21886
Optimization of a stiffened plate
[IWECO-5071303-82-1] 12 p1827 N84-21911
Computer-Aided Geometry Modeling
[NASA-CP-2272] 12 p1869 N84-22179
The computation of all plane/surface intersections for CAD/CAM applications 12 p1869 N84-22182
The Solid Model Geometry Generator (SMGG)
12 p1872 N84-22199
The 3SPACE digitizer: A new input device for solid geometry modeling 12 p1872 N84-22200
Interactive modeling using the PATRAN-G program
12 p1872 N84-22201
Interactive graphics for quick-geometry modeling
12 p1872 N84-22202
Data engineering systems: Computerized modeling and data bank capabilities for engineering analysis
12 p1873 N84-22203
Some mathematical tools for a modeller's workbench
12 p1873 N84-22204
Interactive graphics for geometry modeling
12 p1873 N84-22207
Interactive wire-frame ship hullform generation and display 12 p1874 N84-22209
An interactive modeling program for the generation of planar polygons for boundary type solids representations of wire frame models 12 p1874 N84-22210
CAD/CAM data management
12 p1874 N84-22212
The virtual front end: Towards better management of solid geometric data 12 p1874 N84-22213
An enhanced Oct-tree data structure and operations for solid modeling 12 p1874 N84-22214
IGES, a key interface specification for CAD/CAM systems integration 12 p1874 N84-22215
Modeling concepts for communication of geometric shape data 12 p1875 N84-22217
Computer-aided surface representation and design
12 p1875 N84-22218
Present capabilities and future requirements for computer-aided geometric modeling in the design and manufacture of gas turbine 12 p1875 N84-22219
A collection of procedures for defining airplane surfaces for input to PANAIR 12 p1875 N84-22220
The computation of mesh configurations for three-dimensional flow analysis
12 p1875 N84-22221
Evaluation of 3-D graphics software: A case study
12 p1875 N84-22222
Using a commercial CAD system for simultaneous input to theoretical aerodynamic programs and wind-tunnel model construction 12 p1875 N84-22223
Mathematical synthesization of complex structures
12 p1876 N84-22224
Geometric modeling of large space antenna deployment 12 p1876 N84-22225
Interactive computer graphics for system analysis
[AD-A138025] 12 p1879 N84-22250
An approach for multilayer PCB (Printed circuit boards) design with automatic routing
[AD-A138072] 12 p1880 N84-22255
PLAFST programmable logic array from state table
[AD-A138466] 12 p1883 N84-22275
How to use TRIX RED to format equations for REDPP and other tricks
[DE84-006328] 12 p1884 N84-22280
IPAD2: Advances in Distributed Data Base Management for CAD/CAM
[NASA-CP-2301] 12 p1889 N84-22299

Management of CAD/CAM information: Key to improved manufacturing productivity 12 p1889 N84-22300
CIM's bridge from CADD to CAM: Data management requirements for manufacturing engineering 12 p1889 N84-22301
Technology for the product and process data base 12 p1889 N84-22302
Design versus manufacturing data base management requirements 12 p1890 N84-22304
A distributed data base management facility for the CAD/CAM environment 12 p1890 N84-22305
Data management for Computer-Aided Engineering (CAE) 12 p1890 N84-22306
CAD/CAM and scientific data management at Dassault 12 p1890 N84-22307
Future developments of a hybrid CAD/CAM system 12 p1890 N84-22310
Product definition data interface 12 p1891 N84-22314
The database management system: A topic and a tool 12 p1891 N84-22316
The role of DBMS in design research 12 p1891 N84-22317
Impact of IPAD on CAD/CAM database university research 12 p1891 N84-22318
The design and layout of a complementary metal oxide semiconductor silicon on sapphire cell library [AD-A138310] 12 p1914 N84-22470
Optimization of thermal systems with sensitive optics, electronics, and structures [NASA-CR-3745] 13 p1939 N84-22608
Manufacturing influence of design and its importance to successful automation — aircraft engines [PNR-90189] 13 p1975 N84-22814
State-space structures for the realization of low roundoff noise digital filters 13 p1987 N84-22900
CASE (Computer-Aided Structural Engineering) study of 6 major general-purpose finite element programs [AD-A139085] 13 p2001 N84-22986
Design considerations for a 10-kW integrated hydrogen-oxygen regenerative fuel cell system [NASA-TM-83664] 13 p2008 N84-23023
Data compression [AD-A138541] 13 p2024 N84-23124
Corporate DP planning: New approaches and new concerns — data processing (DP) [PNR-90180] 13 p2064 N84-23386
Computer developments at Institute of Automation and Electrometry described 13 p2065 N84-23390
Volvo LCP: New materials, production methods 14 p2136 N84-23801
Users' manual for computer program for three-dimensional analysis of coupler-cavity traveling wave tubes [NASA-CR-168269] 14 p2141 N84-23841
Some difficulties developing a large-scale research grade CAD program for a production environment [DE84-005549] 14 p2142 N84-23845
Picking parts out of a bin [AD-A139257] 14 p2187 N84-24106
Automated design of combinational networks under specific constraints: A theorem proving approach [AD-P002377] 14 p2195 N84-24168
Computer programs for helicopter data display and conceptual design [AD-A139096] 14 p2205 N84-24231
Development of a microcomputer-based engineering design optimization software package [AD-A139123] 14 p2205 N84-24232
Computer aided layout of procedure information for training and job aiding [AD-A139347] 14 p2205 N84-24236
Experimental design: Review and comment [AD-A139268] 14 p2218 N84-24309
NASA/Howard University Large Space Structures Institute [NASA-CR-173425] 14 p2244 N84-24476
Megamechanics research Consortium 14 p2244 N84-24477
Stabilization of a flexible body (hoop-column) antenna by feedback control law 14 p2245 N84-24478
Mathematical analysis 14 p2245 N84-24479
Optimization of space structures 14 p2245 N84-24480
Multivariable control laws for the AFTI/F-16 [AFIT/GE/EE/83S-4] 15 p2253 N84-24531
Digital multivariable tracker control laws for the C-141-A Starlifter aircraft [AFIT/GE/EE/82D-47] 15 p2254 N84-24533
Reconfigurable digital control laws for the A-7D DIGITAC 2 aircraft with failed primary control surfaces [AFIT/GE/EE/82D-59] 15 p2254 N84-24535
Predicting combustor efficiency and stability performances 15 p2294 N84-24765
The conceptual design of mechanisms and mechanical systems 15 p2311 N84-24869
A designer's perception of computer-aided design 15 p2312 N84-24871
Optimization of high speed linkages 15 p2312 N84-24872
KINSYN and micro KINSYN: User-friendly computer systems for linkage design 15 p2312 N84-24873
A passively controlled appendage deployment system for the San Marco D/L spacecraft 15 p2347 N84-25081
The design and production of a procedure training aid using the procedure learning format and the computer automated page layout (PLA) routine [AD-A139968] 15 p2383 N84-25292
Interactive creation of instructions for interactive graphic analysis (INGA) [ISD-300] 15 p2390 N84-25337
A computer package for designing pH regulation systems 15 p2391 N84-25344
Data exchange and transfer structures [SNIAS-832-111-103] 15 p2391 N84-25347
Solid modeling at SNIAS [SNIAS-832-111-106] 15 p2391 N84-25348
SNIAS's experience and work in the geometric modeling area [SNIAS-832-111-107] 15 p2391 N84-25349
Introduction to computer-aided design/computer-aided manufacturing [NLR-MP-83018-U] 15 p2393 N84-25363
The MOSIS (MOS implementation) system (What it is and how to use it) [AD-A139744] 15 p2418 N84-25517
Experimental modal analysis [SNIAS-832-210-110] 16 p2440 N84-25655
Transponder optimization by computer simulation [MBB-UR-617-83-O] 16 p2563 N84-26445
Important CAD/CAM utilization at MBB [MBB-Z-13-83-O] 16 p2564 N84-26451
Aerodynamic design using numerical optimization [NASA-TM-85550] 17 p2599 N84-26661
Advanced prediction technique for the low speed aerodynamics of V/STOL aircraft. Volume 1: Technical discussion [NASA-CR-166442-VOL-1] 17 p2600 N84-26662
Advanced prediction technique for the low speed aerodynamics of V/STOL aircraft. Volume 2: User's manual [NASA-CR-166442-VOL-2] 17 p2600 N84-26663
Friction damping of flutter in gas turbine engines 17 p2609 N84-26701
Turbofan engine technology evaluation system, user's guide [AD-A140781] 17 p2609 N84-26704
Princeton VLSI project [AD-A140588] 17 p2663 N84-26986
Solution of 3-dimensional time-dependent viscous flows. Part 2: Development of the computer code [NASA-CR-166565-PT-2] 17 p2666 N84-27002
Solution of 3-dimensional time-dependent viscous flows. Part 3: Application to turbulent and unsteady flows [NASA-CR-166565-PT-3] 17 p2667 N84-27003
Computer-aided design of robots 17 p2674 N84-27037
Computer-aided optimal design of constrained dynamic systems 17 p2675 N84-27040
Integrated analysis and design of steel frames with interactive computer graphics 17 p2677 N84-27049
Method for evaluating parameters of magnetized object of great horizontal extent 17 p2705 N84-27229
DANTE: A semantic data model for use in the construction sector [KU-IB-17/83] 17 p2754 N84-27480
A data management and presentation tool for engineering and research [NLR-MP-83044-U] 17 p2754 N84-27482
Solution of 3-dimensional time-dependent viscous flows. Part 1: Investigation of candidate algorithm [NASA-CR-166565-PT-1] 17 p2757 N84-27503
Multivariable digital flight control design of the X-29A [AD-A140983] 18 p2796 N84-27745
GD 80: Computer assisted device for engineers 18 p2827 N84-27949
Computer-aided design of millimeter wave e-plane filters [AD-A141016] 18 p2833 N84-27987
Initial validation of a functional age profile for aviators [AD-P003271] 18 p2907 N84-28436
Development of a computer aided design package for control system design and analysis for use on a personal computer [AD-A139065] 18 p2920 N84-28520
Establishment of a Computer-Aided Design (CAD)/Computer-Aided Manufacturing (CAM) process for the production of cold forged gears [AD-A141018] 18 p2921 N84-28522
Current development at National Aerospace Laboratory (NLR) and Fokker in computer aided aerodynamic design [NLR-MP-83031-U] 18 p2922 N84-28530
Coupling of the program OPTIMA to the pre and post processor SUPERTAB — finite element program [IWECO-5074403-100-83-1] 18 p2922 N84-28532
Study of transonic flow over swept wings [NASA-CR-173799] 19 p2956 N84-28734
Simulation of vehicle aerodynamics by means of a general-purpose computer program [CFD/84/4] 19 p2960 N84-28759
Digital multivariable tracker control laws for the KC-135A [AD-A141118] 19 p2964 N84-28786
Integrated Application of Active Controls (IAAC) technology to an advanced subsonic transport project: Current and advanced act control system definition study. Volume 2: Appendices [NASA-CR-165631-VOL-2] 19 p2967 N84-28803
Proposal and development plan for an aircraft systems integration laboratory [AD-A141827] 19 p2970 N84-28822
Interactive systems design and synthesis of future spacecraft concepts [NASA-TM-86254] 19 p2981 N84-28893
Characterization of silicon-gate CMOS/SOS integrated circuits processed with ion implantation [NASA-CR-161988] 19 p3011 N84-29087
Structures and Dynamics Division research and technology plans for FY 1894 and accomplishments for FY 1982 [NASA-TM-85828] 19 p3034 N84-29245
Two-dimensional computer simulation of EMVJ and grating solar cells under AMO illumination 19 p3044 N84-29313
Digital systems design language. Design synthesis of digital systems [NASA-CR-162032] 19 p3073 N84-29409
Multiprocessor Z-buffer architecture for high-speed, high complexity computer image generation [AD-A141083] 19 p3074 N84-29507
Automated Q-GERT source code generation using computer aided design [AD-A141127] 19 p3075 N84-29509
DOE workshop on computer-aided engineering: Abstracts [DE84-001064] 19 p3079 N84-29538
Parameterization and shape of B-spline curves for CAD — computer aided design (CAD) 19 p3080 N84-29541
Management of CAD/CAM information: Key to improved manufacturing productivity [NASA-TM-86255] 19 p3080 N84-29545
The semi-Markov unreliability range evaluator program [NASA-TM-86261] 19 p3093 N84-29640
Rotary wing aerodynamically generated noise 19 p3097 N84-29668
Modeling and extraction of interconnect parameters in very-large-scale integrated circuits [AD-A142381] 20 p3178 N84-30182
Graphics workstation switching unit [DE84-011626] 20 p3275 N84-30788
Linear systems analysis program: Programmer's manual, version 2.2 (VAX/VMS) [DE84-010953] 20 p3282 N84-30835
The application of a general purpose data base management system to design automation [AD-A141999] 20 p3314 N84-31048
Some aspects of guidance loop design for SAM systems 21 p3350 N84-31251
Computer-Aided Engineering (CAE) in plastics technology [CSIR-TRANS-1725] 21 p3370 N84-31380
Synthesis of MIG-type electron guns for gyrotrons [INPE-3191-PRE/555] 21 p3391 N84-31517
Auxiliary programs for the Metal-Enclosed Microstrips Project [INPE-3172-PRE/542] 21 p3465 N84-31964
Getting into CAD at the Savannah River Plant [DE84-011581] 21 p3466 N84-31977
Preliminary investigations of means to transfer computer programs to the forging industry [CETIM-1.3K.38.2] 21 p3467 N84-31983
The influence of Computer Aided Design (CAD) on research — aircraft design [NLR-MP-83026-U] 21 p3467 N84-31984
The surface generation using weighted splines [INPE-3160-PRE/534] 21 p3470 N84-31994
A design automation database for computer aided design of computer systems 21 p3517 N84-32278
Conceptual design of a noncontacting power transfer device for the ASPS Vernier system [NASA-CR-172238] 22 p3581 N84-32677
Computer aided modeling and post processing with NASTRAN analysis 22 p3609 N84-32869

Graphical error analysis
[BMFT-FB-T-84-081] 22 p3642 N84-33093
Feedback systems and simultaneous design
[AD-A143547] 22 p3644 N84-33102
Custom integrated circuits 22 p3684 N84-33361
Design, analysis and test verification of advanced encapsulation systems
[NASA-CR-173955] 23 p3787 N84-34016
Report of the working group on large-scale computing in aeronautics
[AGARD-AR-209] 23 p3813 N84-34177
Efficient editing of solid models by exploiting structural and spatial locality
[TM-46] 23 p3815 N84-34190
An analysis of three approaches to the helicopter preliminary design problem
[AD-A144315] 24 p3854 N84-34440
Telemetry bandwidth selection for infrared surveillance sensors
[AD-A144251] 24 p3861 N84-34466
Development of a design-oriented Navier-Stokes cascade analysis
[AD-A144594] 24 p3901 N84-34703
Results of a questionnaire on the teaching of Computer-Aided Engineering (CAE) on undergraduate courses
[TT-8404] 24 p3937 N84-34919
Computers on the job 24 p3941 N84-34945
Ada (trademark) training curriculum. Software engineering methodologies M201 teacher's guide, volume 2
[AD-A144257] 24 p3946 N84-34985
Algorithms and file structures for computational geometry
[AD-A144381] 24 p3951 N84-35018
Triangular extrapolation
[AD-A144660] 24 p3952 N84-35025
Computer aided geometrical optics design
[AD-A144559] 24 p3963 N84-35099

COMPUTER AIDED MANUFACTURING

Computer-Integrated Manufacturing (CIM): Turning visions to reality
[DE83-015481] 01 p0091 N84-10593
Introduction to flexible manufacturing systems: Their applications, classification, and opportunities
[DE83-017373] 04 p0586 N84-13868
The 2nd European Conference on Computer Aided Design in Small and Medium-Size Industries
[AD-A129389] 06 p0897 N84-15821
Off-line graphics processing: A case study
[DE84-002420] 06 p0898 N84-15832
Integrated Computer-Aided Manufacturing (ICAM) architecture part 3. Volume 1: Architecture part 3: Accomplishments
[AD-A134249] 07 p1055 N84-16829
Initial graphics exchange specification test library, version 1.3
[PB84-102144] 08 p1214 N84-17922
The manufacture and finishing of aluminium extrusion dies 09 p1293 N84-18447
Manufacturing methods and technology, CAM (Computer Aided Manufacturing) related projects, FY 83-85
[AD-A136572] 09 p1367 N84-18924
Coordinated research in robotics and integrated manufacturing
[AD-A137042] 10 p1555 N84-20191
Integrated Computer-Aided Manufacturing (ICAM) architecture. Part 3, volume 2: Procedures
[AD-A137422] 10 p1563 N84-20240
Manufacturing information system
[AD-A137891] 11 p1641 N84-20730
CAD/CAM technology working group report IDA/OSD R/M (Institute for Defense Analyses/Office of the Secretary of Defense Research and Maintainability) study
[AD-A137761] 11 p1666 N84-20667
The computation of all plane/surface intersections for CAD/CAM applications 12 p1869 N84-22182
An interactive modeling program for the generation of planar polygons for boundary type solids representations of wire frame models 12 p1874 N84-22210
CAD/CAM data management 12 p1874 N84-22212
An enhanced Oct-tree data structure and operations for solid modeling 12 p1874 N84-22214
IGES, a key interface specification for CAD/CAM systems integration 12 p1874 N84-22215
Modeling concepts for communication of geometric shape data 12 p1875 N84-22217
Computer modeling of complete IC fabrication process
[AD-A138006] 12 p1879 N84-22247
Methodology for benefit analysis of CAD/CAM (Computer-Aided Design/Computer-Aided Manufacturing) in USN shipyards
[AD-A138398] 12 p1882 N84-22270
IPAD 2: Advances in Distributed Data Base Management for CAD/CAM
[NASA-CP-2301] 12 p1889 N84-22299
Management of CAD/CAM information: Key to improved manufacturing productivity 12 p1889 N84-22300
CIM's bridge from CADD to CAM: Data management requirements for manufacturing engineering 12 p1889 N84-22301
Technology for the product and process data base 12 p1889 N84-22302
Design versus manufacturing data base management requirements 12 p1890 N84-22304
A distributed data base management facility for the CAD/CAM environment 12 p1890 N84-22305
Data management for Computer-Aided Engineering (CAE) 12 p1890 N84-22306
CAD/CAM and scientific data management at Dassault 12 p1890 N84-22307
Future developments of a hybrid CAD/CAM system 12 p1890 N84-22310
Product definition data interface 12 p1891 N84-22314
Data distribution in the NBS Automated Manufacturing Research Facility 12 p1891 N84-22315
The database management system: A topic and a tool 12 p1891 N84-22316
Impact of IPAD on CAD/CAM database university research 12 p1891 N84-22318
Direct digital control of the electric arc furnace
[RR-233] 13 p1974 N84-22811
Manufacturing influence of design and its importance to successful automation — aircraft engines
[PNR-90189] 13 p1975 N84-22814
Computer methods for industrial automation and robotics 13 p2031 N84-23168
Corporate DP planning: New approaches and new concerns — data processing (DP)
[PNR-90180] 13 p2064 N84-23386
Computer developments at Institute of Automation and Electrometry described 13 p2065 N84-23390
Research briefings for the Office of Science and Technology Policy, the National Science Foundation and selected federal departments and agencies, 1983
[PB84-161322] 14 p2124 N84-23732
Planning and implementation of automated cutting in the precision engineering industry
[MBB-UA-772-83-O] 14 p2135 N84-23794
Saab claims world's most modern engine-assembly plant 14 p2135 N84-23800
Data exchange and transfer structures
[SNIAS-832-111-103] 15 p2391 N84-25347
Solid modeling at SNIAS
[SNIAS-832-111-106] 15 p2391 N84-25348
SNIAS's experience and work in the geometric modeling area
[SNIAS-832-111-107] 15 p2391 N84-25349
Introduction to computer-aided design/computer-aided manufacturing
[NLR-MP-83018-U] 15 p2393 N84-25363
Important CAD/CAM utilization at MBB
[MBB-Z-13-83-O] 16 p2564 N84-26451
Computer-automated technological innovation in three manufacturing sectors
[AD-P003309] 18 p2909 N84-28450
Establishment of a Computer-Aided Design (CAD)/Computer-Aided Manufacturing (CAM) process for the production of cold forged gears
[AD-A141018] 18 p2921 N84-28522
Management of CAD/CAM information: Key to improved manufacturing productivity
[NASA-TM-86255] 19 p3080 N84-29545
Precision flexible machining cells within a manufacturing system
[AD-A142527] 20 p3170 N84-30129
Integrated Computer-Aided Manufacturing (ICAM) architecture, part 3. Volume 5: Composite function model of manufacture product (MFG0)
[AD-A142337] 20 p3272 N84-30766
Integrated Computer-Aided Manufacturing (ICAM) architecture. Part 3, volume 4: Composite information model of design product (DES 1)
[AD-A142447] 20 p3273 N84-30774
Computer-Aided Engineering (CAE) in plastics technology
[CSIR-TRANS-1725] 21 p3370 N84-31380
Automation of a drop forge at the Centre Techniques des Industries Mecaniques (CETIM) forge section
[CETIM-1.3K.27.3] 21 p3376 N84-31423
Computer aided ultrasonic testing
[CETIM-15-H-404] 21 p3416 N84-31661
Integrated Computer-Aided Manufacturing (ICAM) architecture. Part 3, Volume 6: Composite information model of 'Manufacture product' (MFG1)
[AD-A143072] 21 p3466 N84-31973
Study of numerical control systems for machines. Integration in flexible workshops and units
[CETIM-1.3T.042] 21 p3470 N84-31991
Parts on demand: Evaluation of approaches to achieve flexible manufacturing systems for Navy parts on demand, volume 1
[AD-A143248] 22 p3604 N84-32830
Simulation of the reaction of optical systems in the manufacturing process
[BMFT-FB-T-84-128] 23 p3728 N84-33622
Computers on the job 24 p3941 N84-34945
East Europe report: Science and technology
[JPRS-ESA-84-028] 24 p3943 N84-34967
Robotron K 1520 microcomputer 24 p3943 N84-34968
Computers, microprocessors, economy of USSR 24 p3944 N84-34970
Initial steps in utilization of robots 24 p3944 N84-34971
Academician Vamos interviewed on automation related problems 24 p3944 N84-34972
Integrated Computer-Aided Manufacturing (ICAM) architecture, part 3. Volume 7: MFG01 glossary
[AD-A144426] 24 p3947 N84-34991
ICAM (Integrated Computer Aided Manufacturing) conceptual design for computer-integrated manufacturing. Volume 4, part 5, task D: Quality assurance/quality, control/technical requirement/tasks, quality assurance modeling and analysis, architecture for product assurance, (TTD)
[AD-A144691] 24 p3948 N84-34999

COMPUTER AIDED MAPPING

Remote sensing and topographic maps — belgium 03 p0386 N84-12600
Mapping land use in Catalonia (Spain) — using LANDSAT imagery 03 p0400 N84-12613
CEREAS: An interactive computer-mapping system for environmental assessments
[DE83-017927] 04 p0585 N84-13864
Reports on cartography and geodesy, series 1: Original reports, no. 89
[ISSN-0469-4236] 07 p1018 N84-16602
BIZEPS and raster graphics — plotting package 07 p1018 N84-16603
Production of printing originals for multicolor printings using raster plotters working on an electrostatic basis 07 p1018 N84-16604
New developments in digitizing and processing map data on large scales by Ordnance Survey (OS), Southampton, England 07 p1018 N84-16607
Automation in digitizing large scale maps 07 p1019 N84-16608
Digitizing of block and parish boundary maps: Aids, experiences and problems 07 p1019 N84-16609
Computer assisted processing of soil productivity assessment data for the production of soil classification maps on the basis of soil productivity assessment data on the scale 1:5000 (DGK 5 Bo) 07 p1019 N84-16610
A program system for computer assisted acquisition and analysis of classification maps in land association 07 p1019 N84-16611
Use of the interactive graphical system SICAD for computer assisted land evaluation and redistribution in land consolidation 07 p1019 N84-16612
Automatic connection of map edges for adjacent CIPS data bases — computer program 07 p1019 N84-16613
Software concept for an interactive graphics system for large scale topographic cartography 07 p1019 N84-16614
Digital signal processing in computer aided cartography
[SER-C-278-MITT-163] 10 p1526 N84-19996
Future sea mapping technique: Travel report. Activities in sea mapping technique, laser technique and acoustics at some institutes in Northern Europe
[FOA-C-30346-E1] 10 p1527 N84-20002
Determination of propped fracture length by detection of injected magnetic material with surface superconducting magnetometers
[PB84-181320] 17 p2696 N84-27176
Development of Great Lakes algorithms for the Nimbus-G coastal zone color scanner
[NASA-CR-173511] 17 p2711 N84-27258
Report on the International Cartographic Association Seminar on computer assisted mapping and charting 19 p3040 N84-29285
Automation-associated revision conception of the general topographic map 1 : 200,000 using raster data 19 p3040 N84-29291
A data management system for digital raster maps 19 p3041 N84-29292
Computer-aided mapping in the USA: Experiences from a study tour in November 1983
[FOA-C-20533-D6] 19 p3042 N84-29304

Reports on cartography and geodesy. Series 1: Original reports, number 92
[ISSN-0469-4236] 20 p3225 N84-30495
Automation assisted gathering, processing, and representation of topographic data for the production of the German basic map 1:5000 - height in Lower Saxony
20 p3226 N84-30500
Forest generalization by digital raster data processing
20 p3226 N84-30501
Software research for computer aided cartography at the Berlin Technical University 20 p3226 N84-30503
An example of computer aided generalization of TK 25 — topographical map 1:25,000 (TK 25)
20 p3227 N84-30504
An investigation of the reproduction of the general topographic map 1:200,000 in shortened scale with a digital raster data processing system 20 p3227 N84-30505
A system for automatic digitization of cartographic line drawings 20 p3227 N84-30506
Raster processing for regional planning tasks
20 p3227 N84-30507
The automated cadastral plan, a source for the topographic country map works
20 p3227 N84-30508
Suggestion for a cartographic pattern recognition system using digital raster data processing methods
20 p3227 N84-30509
Data integrity factors affecting the construction of the mapping, charting, and geodesy data base
[NASA-CR-173835] 20 p3226 N84-30511
Tropospheric delay effects in radio interferometry
22 p3574 N84-32636
Investigation of texturing functions. Application to ecographical zoning and to mapping land use in a sloping basin: The Aveyron
[CESR-83-1089] 23 p3784 N84-34001

COMPUTER ASSISTED INSTRUCTION
Extended development procedure EDeP user's manual
[AD-A131381] 01 p0116 N84-10756
CTX: A system for computer-aided indexing — computer aided text retrieval (CTX)
[BMFT-FB-ID-83-006] 02 p0303 N84-11986
Report of the Faculty Working Group on Computers
[AD-A132706] 05 p0729 N84-14784
Investigation of an error theory for conjoint measurement methodology
[AD-A133946] 05 p0734 N84-14818
A comparison of map learning methods: Map study, simulated travel and mixed
[AD-A133544] 06 p0892 N84-15794
Computer based landing signal officer carrier aircraft recovery model
[AD-A133507] 06 p0694 N84-15808
Classifying bugs is a tricky business
[AD-A133264] 06 p0895 N84-15813
Tailored testing theory and practice: A basic model, normal ogive submodels, and tailored testing algorithms
[AD-A133385] 06 p0897 N84-15824
A guideline for the planning and system requirement determination of a computer based educational system
[AD-A133529] 06 p0898 N84-15829
Artificial intelligence: An analysis of potential applications to training, performance measurement, and job performance aiding
[AD-A133592] 06 p0900 N84-15839
Proceedings of the Conference on Joint Problem Solving and Microcomputers
[AD-A135001] 08 p1211 N84-17901
Desk-top computer controlled instrument lathe for machining with high form accuracy
[FOA-C-30339-E1,E3] 08 p1214 N84-17918
Predictor displays as training aids in carrier landings
[AD-A136643] 10 p1433 N84-19387
Interactive videodisc design and production, workshop guide
[AD-A136830] 10 p1498 N84-19791
Explaining complex engineered devices
[AD-A136790] 10 p1554 N84-20186
Successful use of microcomputers in classroom instruction
[RAND/P-6653] 12 p1876 N84-22229
Alternative knowledge acquisition interface structures
[AD-A139019] 13 p2022 N84-23109
User manual for driver program
[AD-A139028] 13 p2029 N84-23156
Computer-managed instruction: Individual differences in student performance
[AD-A139708] 15 p2382 N84-25286
Computer-managed instruction: Stability of cognitive components
[AD-A139681] 15 p2383 N84-25291
The design and production of a procedure training aid using the procedure learning format and the computer automated page layout (PLA) routine
[AD-A139668] 15 p2383 N84-25292
GUIDON: A computer-aided instructional program
[AD-A139999] 15 p2383 N84-25293
APL (A Programming Language) TUTOR: An on-line instructional facility
[AD-A140117] 15 p2393 N84-25359
Individualizing with Computer-Assisted Instruction (CAI): Enhancing student motivation through computer-controlled audio
[AD-P003314] 18 p2909 N84-28453
Training and performance support system: A new dimension in individualized instruction
[AD-P003315] 18 p2910 N84-28454
MAGIC (Microcomputer Applications of Graphics and Interactive Communications). 1: A study of manual versus vocal control under heavy task loading
[AD-P003320] 18 p2910 N84-28456
Individual differences in learning rate
[AD-P003338] 18 p2911 N84-28462
Video games: A human factors guide to visual display design and instructional system design
[AD-P003368] 18 p2914 N84-28480
Towards a general scientific reasoning engine
[AD-A141263] 18 p2924 N84-28543
Annotated bibliography of human factors laboratory reports (1945-1968): Supplement 4, 1979-1983
[AD-A142141] 19 p3071 N84-29481
Teaching Ada (trademark) at the US Military Academy
[AD-P003418] 20 p3270 N84-30750
Ada (Registered trademark) training curriculum. Software engineering for managers. M101: Teachers exercise guide
[AD-A142429] 20 p3272 N84-30767
Ada (registered trademark) training curriculum. Ada (registered trademark) for software managers, L201. Teachers' guide: Volume 1
[AD-A142430] 20 p3272 N84-30768
Ada (registered trademark) training curriculum. Ada (registered trademark) for software managers, L201. Teachers guide: Volume 2
[AD-A142431] 20 p3272 N84-30769
Research on computer aided testing of pilot response to critical in-flight events
[NASA-CR-173871] 21 p3460 N84-31945
Guide to computer-based training
[DE84-012244] 21 p3466 N84-31975
On-line task analyses in maintenance simulation
[AD-P003452] 21 p3509 N84-32229
Training capabilities: The facility part of the equation
[AD-P003457] 21 p3510 N84-32234
An adaptive CBT (Computer Based Training) courseware authoring system to meet the needs of military authors
[AD-P003460] 21 p3510 N84-32237
User friendly authoring languages: An alternative approach
[AD-P003461] 21 p3510 N84-32238
Special features of information presentation in teaching systems
[BLL-M-35604-(5828.4)] 21 p3516 N84-32273
Fleet project team participation in major aviation training device development, acquisition and support
[AD-A144182] 24 p3857 N84-34452
Results of a questionnaire on the teaching of Computer-Aided Engineering (CAE) on undergraduate courses
[TT-8404] 24 p3937 N84-34919
Ada training curriculum. Introduction to software engineering, M102: Teachers' guide
[AD-A144236] 24 p3945 N84-34980
SPIRIT: An evolutionally designed intelligent tutoring system
[AD-A144638] 24 p3949 N84-35003

COMPUTER COMPATIBLE TAPES
APQ-102 imaging radar digital image quality study
[NASA-CR-171738] 08 p1143 N84-17435
NOAA position for TM data distribution
10 p1524 N84-19981
CCRS option for TM data distribution
10 p1524 N84-19982
ERB master archival tape specification no. T 134081 ERB MAT, revision 1
[NASA-TM-85612] 14 p2204 N84-24230
TM digital image products for applications
20 p3206 N84-30371
TM digital image products for applications — computer compatible tapes
[E84-10178] 21 p3428 N84-31749
TM digital image products for applications — computer compatible tapes
[E84-10183] 21 p3429 N84-31754

COMPUTER COMPONENTS
Self-teaching guide to Rand's text processor
[RAND/N-2056-RC-REV] 12 p1879 N84-22244
Microelectronic components development in seventh 5-year plan described 18 p2827 N84-27947
Trends in microprocessor technology outlined
24 p3943 N84-34964

COMPUTER DESIGN
Pringle: A parallel processor to emulate CHIP (configurable highly parallel) computers
[AD-A129152] 01 p0119 N84-10770
S-1 uniprocessor architecture
[DE83-012344] 01 p0119 N84-10774
A methodology for exploiting parallelism in the finite element process
[NASA-CR-172219] 01 p0127 N84-10831
Further development in electron beam lithography
[BMFT-FB-T-83-099] 02 p0216 N84-11415
Application of computational procedures in aerodynamic design 03 p0318 N84-12078
Ada-Europe guidelines for the portability of Ada programs, second edition
[NPL-DITC-27/83] 03 p0419 N84-12739
A Specification Assistance System (SAS)
05 p0721 N84-14731
Research in VLSI systems. Heuristic programming project and VLSI theory project. A fast turn around facility for very large scale integration (VLSI)
[AD-A134809] 08 p1151 N84-17494
Constraint driven synthesis of hardware design
08 p1207 N84-17870
Translators between CADD and section 5 of the ANSI Y14.26M standard 12 p1871 N84-22192
Some mathematical tools for a modeller's workbench
12 p1873 N84-22204
The design and operational development of self-streamlining 2-dimensional flexible walled test sections
[NASA-CR-172328] 13 p1926 N84-22534
Proceedings of the Eighth Annual Software Engineering Workshop
[NASA-TM-85445] 13 p2026 N84-23137
Transformations of software design and code may lead to reduced errors 13 p2027 N84-23145
Cleanroom certification model
13 p2028 N84-23147
An approach to software baseline generation
13 p2028 N84-23149
Thomson semiconductors bipolar IC strategy to 1986
13 p2039 N84-23227
Research briefings for the Office of Science and Technology Policy, the National Science Foundation and selected federal departments and agencies, 1983
[PB84-161322] 14 p2124 N84-23732
Software improvement process: Its phases and tasks. Part 1: Text. Part 2: Appendices
[PB84-162460] 14 p2206 N84-24242
Considerations involved in the design of an optical digital computer 14 p2239 N84-24444
Hierarchical design and verification for VLSI
15 p2388 N84-25323
An evaluation of the directed flow graph methodology
[NASA-CR-173593] 16 p2543 N84-26324
Theses and remarks of future development of calculators 16 p2549 N84-26359
Signal processing at the Poker Flat MST radar
17 p2695 N84-27169
Robotron image processing systems
18 p2919 N84-28509
Design study of floating point systolic VLSI chip
[AD-A141868] 19 p3013 N84-29102
Computer design and optimization of the active rotary flux compressor
[DE84-010089] 19 p3030 N84-29215
Design methodology for back-end database machines in distributed environments
[AD-A142122] 19 p3072 N84-29491
On the design of a Pipelined/Systolic finite element system
[AD-A142558] 20 p3281 N84-30830
Development of a digital air data computer using modern microprocessors, hybrid circuits, and pressure sensors with frequency output
[BMFT-FB-W-84-018] 21 p3343 N84-31208
Design, test, and evaluation of an Air Force environmental model and data exchange
[AD-A143226] 22 p3638 N84-33060
MECA: A supercomputer for Monte Carlo
[DE84-014129] 22 p3638 N84-33066
Design and implementation of a reentrant page editing processor 24 p3959 N84-35066

COMPUTER GRAPHICS
Compiling the space shuttle wind tunnel data base: An exercise in technical and managerial innovators
01 p0026 N84-10166
Interactive raster data structure study
[AD-A130195] 01 p0100 N84-10649
Mapping, charting and geodesy at the Defense Mapping Agency
[AD-A130344] 01 p0100 N84-10650
Status of auto carto at the Defense Mapping Agency
[AD-A131235] 01 p0101 N84-10653

Automated stereo perception
[AD-A130645] 01 p0122 N84-10792
Interactive modeling of scintillation pulses by visual overlay of computed pulse shapes with the raw data
[DE83-012668] 01 p0124 N84-10805
Using the glyph concept to create user-definable display formats
[DE83-013831] 01 p0124 N84-10806
TIS (Technology Information System): A focal point for technology transfer
[AD-A130798] 01 p0161 N84-11060
Enhanced character sizes for the VDM-1 video display board 02 p0168 N84-11101
Computer generated pictorial stores management displays for fighter aircraft
[AD-A131412] 02 p0179 N84-11168
Method for evaluating operator inputs to digital controllers
[DE83-013521] 02 p0269 N84-11763
Core graphics user's manual
[DE83-013206] 02 p0274 N84-11791
System for computer generated images and digital radar landmass simulation systems
[MBB-UA-688-82-OE] 02 p0275 N84-11797
Multivariate density estimation and remote sensing 03 p0393 N84-12560
Measurements, in vivo, of parameters of the dopamine system
[DE83-017964] 03 p0414 N84-12709
DRAMIN: Transferring data from the Applicon graphic system to A DRAM input file user guide
[DE83-018235] 03 p0421 N84-12753
Assembly language graphics library (EGR1.LB) with Fortran interfacing
[PB83-239624] 03 p0422 N84-12757
Galilean satellite geomorphology
[NASA-CR-174574] 03 p0464 N84-13057
Automated thermal conductivity probe and applications to powders
[DE84-000451] 04 p0508 N84-13328
The development and application of an advanced computer-based shared-graphic workstation for video teleconferencing
[AD-A132583] 04 p0579 N84-13817
Interactive surface visualization using raster graphics
[AD-A132548] 04 p0579 N84-13819
Planar embedding of planar graphs
[AD-A132538] 04 p0579 N84-13820
Generating three-dimensional surface models of solid objects from multiple projections
[AD-A132392] 04 p0580 N84-13824
Development of a GIFTS (graphics-oriented interactive finite-element time-sharing system) plotting package compatible with either PLOT10 or IBM/DSM graphics
[AD-A132195] 04 p0581 N84-13833
Developing computer-graphics programs for specialized applications
[DE83-016181] 04 p0581 N84-13836
Computerized art plotting system. Volume 1: Horizontal bar charts (second edition)
[DE83-018113] 04 p0582 N84-13839
Portable FORTRAN contour-plotting subprogram
[DE83-017422] 04 p0582 N84-13846
ANALYSIS/PLOT: A graphics package for use with the SORT/ANALYSIS data bases
[DE83-017886] 04 p0583 N84-13847
Advanced Hough transform implementations
[AD-A132522] 04 p0589 N84-13890
On bisecting random graphs
[AD-A132500] 04 p0589 N84-13892
Multivariate, minimum-curvature splines for randomly spaced data
[AD-A132319] 04 p0590 N84-13899
Management and display of data analysis environments for large data sets
[DE84-001414] 04 p0616 N84-14069
Range safety display system upgrade
[AD-A133789] 05 p0642 N84-14225
Multiangular scanning absorption techniques for three dimensional combustion diagnostics
[AD-A133811] 05 p0648 N84-14263
E-beam written computer generated holograms
[AD-A133772] 05 p0684 N84-14499
Users' guide for the NCAR (National Center for Atmospheric Research) CCM (Community Climate Model) modular processor
[PB83-264002] 05 p0710 N84-14652
Computer graphics hardware and software of the HP 1000F system
[IFSI-82-8] 05 p0720 N84-14720
A Specification Assistance System (SAS) 05 p0721 N84-14731
Qualigraph: A software tool for quality metrics and graphic documentation 05 p0723 N84-14739
Research in knowledge representation for natural language understanding
[AD-A134102] 05 p0726 N84-14765
The smoothest velocity field and token matching schemes
[AD-A133633] 05 p0732 N84-14809
Hypothesizing channels through free-space in solving the findpath problem
[AD-A133632] 05 p0732 N84-14810
Avionics concept evaluation at the force level 06 p0769 N84-15038
Computer graphics techniques for aircraft EMC analysis and design 06 p0771 N84-15055
Application of interactive computer graphics in finite element analysis 06 p0856 N84-15575
The GPRIME approach to finite element modeling 06 p0859 N84-15594
Computer-Aided Structural Engineering (CASE) project. User's guide: Computer graphics program for generation of engineering geometry (SKETCH)
[AD-A133600] 06 p0861 N84-15611
Evaluation of map symbols for a computer generated topographic display: Transfer of training, symbol confusion, and association value studies
[AD-A133590] 06 p0866 N84-15643
Displaying colors of specified chrominance on a color graphics display
[AD-A133591] 06 p0896 N84-15817
Computer-Aided Structural Engineering (CASE) project. Reference manual: Computer graphics program for generation of engineering geometry (SKETCH)
[AD-A133493] 06 p0898 N84-15828
Use of 3D graphics in scientific data analysis
[DE84-000911] 06 p0898 N84-15831
Off-line graphics processing: A case study
[DE84-002420] 06 p0898 N84-15832
Computer-Output Microfiche (COM) on the Oak Ridge computer network
[DE84-002422] 06 p0899 N84-15836
Reports on cartography and geodesy, series 1: Original reports, no. 89
[ISSN-0469-4236] 07 p1018 N84-16602
BIZEPS and raster graphics — plotting package 07 p1018 N84-16603
Production of printing originals for multicolor printings using raster plotters working on an electrostatic basis 07 p1018 N84-16604
The graphical kernel system: Concepts and realization in Common Graphical Manager (CGM) — software package 07 p1018 N84-16605
Transformation procedures for interactive digitizing apparatus 07 p1018 N84-16606
Use of the interactive graphical system SICAD for computer assisted land evaluation and redistribution in land consolidation 07 p1019 N84-16612
Software concept for an interactive graphics system for large scale topographic cartography 07 p1019 N84-16614
IMAGES: A digital computer program for interactive modal analysis and gain estimation for eigensystem synthesis
[NASA-TM-85690] 08 p1105 N84-17186
Foundations of computer science 4. Distributed systems. Part 1: Algorithms and complexity
[MATH-CENTRE-TRACTS-158-PT-1] 08 p1207 N84-17873
VLSI, algorithms and graphics 08 p1208 N84-17878
TIGS (table plot interactive graphics system)—an interactive graphical system for the creation and correction of tabular data sets
[AD-A135522] 08 p1212 N84-17906
Hexagonal data base study
[AD-A135532] 08 p1212 N84-17907
Advanced edit system
[AD-A134952] 08 p1213 N84-17913
Initial graphics exchange specification test library, version 1.3
[PB84-102144] 08 p1214 N84-17922
De-excitation and equipartition in H2-surface collisions
[DE84-003008] 08 p1229 N84-18031
Spacecraft simulators 09 p1264 N84-18252
Design criteria and eigensequence plots for satellite computed tomography
[NASA-CR-172767] 09 p1267 N84-18276
Princeton VLSI project
[AD-A136552] 09 p1307 N84-18547
User's guide: Interactive graphics computer program for contouring randomly spaced data
[AD-A135861] 09 p1367 N84-18927
Hewlett-Packard 7221T plotter user's manual
[AD-A135881] 09 p1368 N84-18929
The GRAPHIX library - A collection of interaction graphics routines for the Tektronix 4014
[AD-A135757] 09 p1368 N84-18932
The integrated mission-planning station: Functional requirements, aviator-computer dialogue, and human engineering design criteria
[AD-A136909] 10 p1430 N84-19352
MANIP and MINIP, new modeling tools for the thermal engineer 10 p1443 N84-19425
An infrastructure for computational fluid dynamics for computer aided design
[NLR-MP-82046-U] 10 p1495 N84-19774
Instructional systems development model for interactive videodisc
[AD-A136737] 10 p1498 N84-19790
Interactive videodisc design and production, workshop guide
[AD-A136830] 10 p1498 N84-19791
Analyzing sliding stability of structures using the modified computer program GWALL, revision
[AD-A136954] 10 p1517 N84-19934
Review and synthesis of problems and directions for large scale geographic information system development
[NASA-CR-166563] 10 p1525 N84-19988
The behavioral demonstrator: A requirements specification executor
[AD-A136944] 10 p1555 N84-20189
The vectorization of a ray tracing program for image generation 10 p1561 N84-20231
SIMTBED: A graphical test bed for analyzing and reporting the results of a statistical simulation experiment
[AD-A136812] 10 p1563 N84-20243
Computer generation of plan of action and milestone schedule
[AD-A137057] 10 p1564 N84-20244
Cray/VAX interactive graphics system
[DE84-003826] 10 p1564 N84-20249
Three-dimensional graphics for scientific data display and analysis
[DE84-004075] 10 p1565 N84-20253
Manufacturing information system
[AD-A137891] 11 p1641 N84-20730
The use of interactive graphics processing in short-range terminal weather forecasting: An initial assessment
[AD-A137185] 11 p1687 N84-21004
Application of marine acoustic systems
[PB84-141381] 11 p1692 N84-21037
MAPPER user's manual
[DE84-003478] 11 p1708 N84-21133
Operation of a computer aided drafting system: Improvement, results and hopes
[DE84-005176] 11 p1708 N84-21134
Graphics specification for graphical requirements for computer-aided control system design
[DE84-004367] 11 p1708 N84-21135
CORE graphics users manual, revision 1
[DE84-004235] 11 p1708 N84-21136
Emacs primer
[DE84-005482] 11 p1710 N84-21144
DIGLIB for HP-1000 computers
[DE84-004741] 11 p1710 N84-21147
Printed circuit board layout by microcomputer
[AD-A138427] 12 p1813 N84-21816
High resolution GLAS on the MCIDAS 12 p1852 N84-22062
Computer-Aided Geometry Modeling
[NASA-CP-2272] 12 p1869 N84-22179
Solid modelling in the Department of Energy 12 p1870 N84-22188
Translators between CADD and section 5 of the ANSI Y14.26M standard 12 p1871 N84-22192
Desktop computer graphics for RMS/payload handling flight design 12 p1871 N84-22196
Automatic generation of 3-D envelopes 12 p1872 N84-22197
ESCHER: An interactive mesh-generating editor for preparing finite-element input 12 p1872 N84-22198
The Solid Model Geometry Generator (SMGG) 12 p1872 N84-22199
The 3SPACE digitizer: A new input device for solid geometry modeling 12 p1872 N84-22200
Interactive modeling using the PATRAN-G program 12 p1872 N84-22201
Interactive graphics for quick-geometry modeling 12 p1872 N84-22202
Data engineering systems: Computerized modeling and data bank capabilities for engineering analysis 12 p1873 N84-22203
The triangle compare method of hidden-line elimination 12 p1873 N84-22205
Computer graphics in aerodynamic analysis 12 p1873 N84-22206
Interactive graphics for geometry modeling 12 p1873 N84-22207
Interactive computer graphic surface modeling of three-dimensional solid domains for boundary element analysis 12 p1873 N84-22208

Interactive wire-frame ship hullform generation and display 12 p1874 N84-22209
An interactive modeling program for the generation of planar polygons for boundary type solids representations of wire frame models 12 p1874 N84-22210
Reflections on representing non-geometric data 12 p1874 N84-22216
Computer-aided surface representation and design 12 p1875 N84-22218
A collection of procedures for defining airplane surfaces for input to PANAIR 12 p1875 N84-22220
The computation of mesh configurations for three-dimensional flow analysis 12 p1875 N84-22221
Evaluation of 3-D graphics software: A case study 12 p1875 N84-22222
Using a commercial CAD system for simultaneous input to theoretical aerodynamic programs and wind-tunnel model construction 12 p1875 N84-22223
Mathematical synthesization of complex structures 12 p1876 N84-22224
Geometric modeling of large space antenna deployment 12 p1876 N84-22225
Interactive computer graphics for system analysis [AD-A138025] 12 p1879 N84-22250
Placing hidden surface removal within the CORE graphics standard: An example [AD-A138239] 12 p1882 N84-22266
A microcomputer based system for analysis of line drawing quantization techniques [AD-A138413] 12 p1883 N84-22272
Grid-based line drawing quantization [AD-A138503] 12 p1884 N84-22278
PICTURE: An interactive tool for creating visual aids. Reference manual, version 2.0 [DE84-007447] 12 p1884 N84-22279
Computer-assisted information graphics from the graphic design perspective [DE84-008059] 12 p1884 N84-22281
Graphic design for computer-based information management: A case study of Seedis [DE84-005873] 12 p1919 N84-22505
NASTEX: Interactive display of NASTRAN-generated plots [AD-A138831] 13 p2001 N84-22963
Development of MCAERO wing design panel method with interactive graphics module [NAS 1.60:3775] 14 p2104 N84-23623
User's guide for COMBIMAN programs (Computerized Biomechanical Man-Model), version 6 [AD-A139139] 14 p2184 N84-24086
Computer programs for helicopter data display and conceptual design [AD-A139096] 14 p2205 N84-24231
Computer aided layout of procedure information for training and job aiding [AD-A139347] 14 p2205 N84-24236
Photogrammetric research [TRITA-FMI-47] 15 p2358 N84-25146
Design of interactive graphics for Digital Elevation Model (DEM) sampling 15 p2358 N84-25149
Programs for handling Raster Chain (RC) coded images [FOA-C-30351-E1] 15 p2390 N84-25341
Graphic design of program text [DE84-008162] 15 p2393 N84-25360
FLOCHT: A system of FORTRAN codes for computer drawn flow charts and diagrams [DE84-007569] 15 p2393 N84-25362
Introduction to computer-aided design/computer-aided manufacturing [NLR-MP-83018-U] 15 p2393 N84-25363
Synthesis of natural textures on 3-d surfaces [AD-A139869] 15 p2407 N84-25452
Interactive creations and modification of chinese characters [ISD-299] 15 p2417 N84-25513
Construction of engineering drawings using a personal computer 16 p2544 N84-26329
Command flight path display, phase 1 and 2 [AD-A140670] 17 p2611 N84-26711
Command flight path display, phase 1 and 2. Appendices A - E [AD-A140671] 17 p2611 N84-26712
An integrated boundary element analysis system with interactive computer graphics for 3-dimensional linear-elastic fracture mechanics 17 p2676 N84-27048
Introduction to the Poker Parallel Programming Environment [AD-A140851] 17 p2753 N84-27476
An application of number theory to the organization of raster-graphics memory [AD-A140638] 17 p2758 N84-27506
East Europe Report: Scientific affairs [JPRS-ESA-84-004] 18 p2827 N84-27946
EMG 7177 programmable graphic calculator, control system 18 p2827 N84-27948
GD 80: Computer assisted device for engineers 18 p2827 N84-27949
Institute achievements in man-machine relations 18 p2827 N84-27950
Computer generated animation and movie production at LARC: A case study [NASA-CR-172375] 18 p2917 N84-28494
Current and future graphics requirements for LaRC and proposed future graphics system [NASA-TM-85726] 18 p2917 N84-28495
Color order systems for computer graphics. Part 1: Transformation of Natural Color System (NCS) data into CIELAB color space [FOA-C-53013-H2] 18 p2922 N84-28528
Description of the general utility graphic routines of the HP 1000 F IFSI [IFSI-83-15] 18 p2922 N84-28534
Applications programs to facilitate use of a DBMS to store and retrieve graphics displays (INGRED 2) [AD-A138059] 18 p2945 N84-28672
Development of Integrated Programs for Aerospace-vechicle Design (IPAD). IPAD user requirements: Implementation (first-level IPAD) [NASA-CR-162713] 19 p2963 N84-28776
A real-time air dispersion modeling system [AD-A141405] 19 p3052 N84-29368
Learning about supercomputers on a microcomputer with no keyboard: A science museum exhibit [DE84-001177] 19 p3073 N84-29496
Multiprocessor Z-buffer architecture for high-speed, high complexity computer image generation [AD-A141083] 19 p3074 N84-29507
Automated Q-GERT source code generation using computer aided design [AD-A141127] 19 p3075 N84-29509
Simulated 3-dimensional computer graphics training display for air weapons controllers. Volume 2: Users guide [AD-A141336] 19 p3075 N84-29510
Simulated 3-dimensional computer graphics training display for air weapons controllers, volume 1 [AD-A141347] 19 p3075 N84-29511
Program descriptions for Interactive Signal and Pattern Analysis and Recognition System (ISPARS) [AD-A141575] 19 p3077 N84-29522
Analysis of interactive image cleansing via RASTER-processing techniques [AD-A141772] 19 p3078 N84-29527
A tutorial for the Ramtek 9460 raster graphics system and the di-3000 graphics package [AD-A141834] 19 p3078 N84-29530
CIG distortion correction with delay lines [AD-D011025] 19 p3079 N84-29537
DOE workshop on computer-aided engineering: Abstracts [DE84-001064] 19 p3079 N84-29538
Computer graphics support service [DE84-010001] 19 p3079 N84-29540
Interactive computer analysis methods for predicting the inelastic cyclic behaviour of structural sections [PB84-192012] 20 p3205 N84-30358
DIGMAP, an interactive graphic support system for mine survey 20 p3225 N84-30496
COMEDG: A program to combine logically independent line segments into geometrically coherent lines 20 p3226 N84-30499
An assessment of interactive graphics processing in short-range terminal weather forecasting [AD-A142706] 20 p3246 N84-30601
Computer graphics enhancement for COMEL (communications electronics) [AD-A141920] 20 p3269 N84-30741
CHART and SKETCH: An interactive computer graphics program [AD-A141997] 20 p3269 N84-30744
Experience with Ada (trademark) for the Graphical Kernel System [AD-P003426] 20 p3271 N84-30758
Graphics language, version 2.2 [AD-A142436] 20 p3272 N84-30772
Guide to graphics at ANL, revised [DE84-013189] 20 p3274 N84-30786
Graphics workstation switching unit [DE84-011626] 20 p3275 N84-30788
GAME: An interactive graphic system for automatic mesh generation [CISE-2211] 20 p3275 N84-30790
Report on the experience with the Supervisory Control and Diagnostics System (SCDS) of MFTF-B [DE84-012599] 20 p3278 N84-30807
Smoothed local symmetries and their implementation [AD-A142489] 20 p3279 N84-30811
GRAPH 2: A digitizing and graph plotting program [DE84-010747] 20 p3282 N84-30834
Holographic investigation of thermal nonequilibrium vapor generation [DE84-011905] 21 p3406 N84-31607
METLIB-2: A program library for calculating and plotting atmospheric and oceanic fields [PB84-205434] 21 p3450 N84-31890
The effect of information display format on multiple-cue judgment [AD-A142884] 21 p3459 N84-31941
A device-dependent interface for interactive image display [NASA-TM-86136] 21 p3461 N84-31949
Pilot climate data system user's guide [NASA-TM-86084] 21 p3463 N84-31956
A fast method for computer image enhancement [INPE-3170-PRE/540] 21 p3465 N84-31965
User's guide to Sphere and Plate Interactive Display Routine (SPIDR) [DE84-012855] 21 p3466 N84-31976
Getting into CAD at the Savannah River Plant [DE84-011581] 21 p3466 N84-31977
New concepts in aircrew training using computer generated imagery: A study report [AD-P003451] 21 p3509 N84-32228
DMA and CIG: A shotgun wedding [AD-P003459] 21 p3510 N84-32236
Data base generation: Improving the state-of-the-art [AD-P003470] 21 p3512 N84-32245
Real-time CGSI (Computer Generated Synthesized Imagery)-single pipeline processor [AD-P003480] 21 p3512 N84-32247
Fiber optic helmet mounted display: A cost effective approach to full visual flight simulation [AD-P003482] 21 p3512 N84-32249
A mathematical simulation model of the CH-47B helicopter, volume 2 [NASA-TM-84351] 22 p3535 N84-32390
Optional stopping performance under graphic and numeric CRT formatting [AD-A143274] 22 p3586 N84-32712
Flight systems raster graphics software reference manual [ARL-SYS-TM-72] 22 p3639 N84-33072
Basic geometric algorithms for use with graphic input [DE84-013256] 22 p3642 N84-33090
Graphical error analysis [BMFT-FB-T-84-081] 22 p3642 N84-33093
A study of methods to predict and measure the transmission of sound through the walls of light aircraft. A survey of techniques for visualization of noise fields [NASA-CR-173917] 22 p3652 N84-33146
NATURAL graphics 22 p3672 N84-33274
Cognitive information processing 22 p3684 N84-33360
A simulation of a satellite power supply system [INPE-3140-TDL/166] 23 p3699 N84-33446
An interactive procedure for the analysis of linear elements detected in LANDSAT pictures: An application to northern Mozambique 23 p3770 N84-33900
Interactive Automatic System (Iaap): An expert system to help photointerpretation 23 p3779 N84-33961
Efficient editing of solid models by exploiting structural and spatial locality [TM-46] 23 p3815 N84-34190
A system for embedding data displays in graphical contexts [AD-A143630] 23 p3815 N84-34191
Boolean operations in solid modelling: Boundary evaluation and merging algorithms [TM-26] 23 p3818 N84-34207
Investigation of electro-optical effects in liquid crystals for high information density over a wide temperature range -- displays [BMFT-FB-T-84-120] 23 p3831 N84-34304
User requirements 23 p3841 N84-34368
Planetary Data Workshop, part 2 [NASA-CP-2343-PT-2] 23 p3842 N84-34376
Non-imaging software/data analysis requirements 23 p3843 N84-34379
Planetary science analysis support system: Hardware report 23 p3843 N84-34382
Mesoscale and severe storms (Mass) data management and analysis system 24 p3929 N84-34871
Applications of the AVE-Sesame data sets to mesoscale studies 24 p3931 N84-34886
Pilot climate data system: User's guide for charts subsystem [NASA-TM-86151] 24 p3945 N84-34975
A method of photo data reduction, with design considerations for the NOVA 800 and UNIVAC 1100/83 computers [AD-A144537] 24 p3947 N84-34997
Algorithms and file structures for computational geometry [AD-A144381] 24 p3951 N84-35018

A computer program designed for contour chart plotting 24 p3959 N84-35068
COMPUTER INFORMATION SECURITY
C-3I local area networks: An assessment
[AD-A134194] 07 p0992 N84-16431
On a secure public-key cryptosystem 08 p1224 N84-17997
Security, a set of rules or an approach — cryptography
[NLR-MP-82047-U] 10 p1593 N84-20442
Information systems, security and privacy
[RAND/P-6930] 11 p1747 N84-21402
Cryptography in a communication system
[NLR-MP-82051-U] 12 p1808 N84-21787
Shannon: Theory and cryptography
[NLR-MP-82053-U] 12 p1808 N84-21788
Diophantine inferences from statistical aggregates on few-valued attributes
[AD-A138365] 12 p1919 N84-22501
Concept of a secure information system consisting of the components operating system, data base, dialogue system, and applications
[BMFT-FB-DV-83-005] 12 p1920 N84-22508
A sixth annotated bibliography of recent publications on data security and cryptography
[NPL-DITC-35/83] 15 p2385 N84-25305
Secure reliable processing systems
[AD-A140150] 16 p2542 N84-26316
Guidelines for developing NASA (National Aeronautics and Space Administration) ADP security risk management plans
[NASA-CR-173564] 16 p2542 N84-26317
Guidelines for development of NASA (National Aeronautics and Space Administration) computer security training programs
[NASA-CR-173562] 16 p2542 N84-26318
Department of defense trusted computer system evaluation criteria
[AD-A141304] 18 p2917 N84-28498
Guideline for computer security certification and accreditation. Category: ADP (Automatic Data Processing) operations. Subcategory: Computer security. Federal information processing standards
[FIPS-PUB-102] 20 p3268 N84-30736
Guidelines for contingency planning NASA (National Aeronautics and Space Administration) ADP security risk reduction decision studies
[PB84-189836] 20 p3268 N84-30737
Fundamentals of computer security
[DE84-011476] 21 p3469 N84-31989
Classification management. Journal of the national classification management society, volume 19, 1983
[AD-A143015] 21 p3518 N84-32286
C3I (Command, Control, Communications and Intelligence) information systems internetwork study
[AD-A144271] 24 p3942 N84-34958
COMPUTER METHODS
U COMPUTER PROGRAMS
COMPUTER NETWORKS
NT ARPA COMPUTER NETWORK
Association for Energy Systems, Operations and Programming (AESOP) Topical Conference summary of proceedings
[CONF-820986-SUMM] 01 p0101 N84-10659
NSW (National Software Works) executive enhancements II
[AD-A129022] 01 p0120 N84-10781
Local networking with intelligent nodes
[DE83-014900] 01 p0127 N84-10832
Analysis of a communication interface using multimicroprocessing
[INPE-2823-PRE/377] 02 p0208 N84-11356
Type KODEK DC modems for use in CYFRONET terminal network
[AD-A131057] 02 p0213 N84-11393
Vibration monitoring using a computer-network approach
[DE83-012123] 02 p0232 N84-11523
Draft remarks for the IFIPS Congress 1983 panel on how to obtain high performance for high-speed processors
[DE83-012669] 02 p0277 N84-11814
A fault-tolerant distributed computer network design and analysis for an integrated flight control system 03 p0336 N84-12189
Trends in the development of teleinformatics
[AD-A131067] 03 p0359 N84-12338
Alternative transmission media for third-generation interface standards
[PB83-238345] 03 p0363 N84-12365
Procedures for the transfer of data files between the BRL CYBER computer system and the IBD Hewlett-Packard minicomputer network
[AD-A132083] 03 p0418 N84-12731
Linked state machines
[DE83-4000123] 03 p0419 N84-12736
Participation of VAX VMS computers in IBM file-transfer networks
[DE83-017945] 04 p0581 N84-13838
Network file-storage system
[DE84-001068] 04 p0585 N84-13863
Detailed introduction and reference manual for: The network-shared-memory distributed database system
[DE83-017547] 04 p0585 N84-13865
TIS: An intelligent gateway computer for information and modeling networks. Overview
[DE83-017986] 04 p0616 N84-14067
Study on extremizing adaptive systems and applications to synthetic aperture radars
[AD-A133945] 05 p0667 N84-14385
Pluribus satellite IMP (Interface Message Provision) development mobile access terminal network
[AD-A132690] 05 p0670 N84-14405
Defense data network subscriber interface guide
[AD-A132877] 05 p0670 N84-14406
Microcomputer networking: A CP/M-Based application
[AD-A134124] 05 p0718 N84-14707
An argument for soft layering of protocols
[AD-A133948] 05 p0718 N84-14708
INTERACT execute facility for job scheduling and manipulation
[DE84-001653] 05 p0758 N84-14968
Advanced automation program. Program master plan
[DOT/FAA/AP-83/3] 06 p0785 N84-15139
A learning approach to routing in data communication networks
[REPT-8212] 06 p0899 N84-15834
Computer-Output Microfiche (COM) on the Oak Ridge computer network
[DE84-002422] 06 p0899 N84-15836
Rivista Tecnica Selenia, volume 8, number 3, 1983 06 p0906 N84-15887
Local area networks: Impact on shipboard applications 06 p0907 N84-15888
Research topics in statistical database management
[DE84-002581] 06 p0935 N84-16080
Telemetered seismic network--'System 788'
[AD-A133143] 07 p0963 N84-16245
Edge display spanning trees and recovery in data communication networks
[AD-A134378] 07 p0993 N84-16437
Foundations of computer science 4. Distributed systems. Part 1: Algorithms and complexity
[MATH-CENTRE-TRACTS-158-PT-1] 08 p1207 N84-17873
Distributed computing 08 p1208 N84-17874
Systolic computation and VLSI 08 p1208 N84-17877
RADC (Rome Air Development Center) DDP (Distributed Data Processing) topology evaluation
[AD-A134701] 08 p1212 N84-17909
Computer networks without a shared memory
AFOSR-81-0197
[AD-A135074] 08 p1215 N84-17927
Performance evaluation and control of distributed computer communication networks
[AD-A135121] 08 p1215 N84-17928
Distributed algorithms for various problems
[AD-A135452] 08 p1240 N84-18105
Operator workload measurement validation for the MARK IV DSCC monitor and control subsystem 10 p1475 N84-19634
A layered communication system for ethernet
[AD-A136799] 10 p1481 N84-19676
The DFVLR main department for central data processing, 1976 - 1983
[NASA-TM-77314] 10 p1556 N84-20196
Interactive parallel processor for data analysis
[DE84-004311] 10 p1564 N84-20250
Job handling in a network of distributed processors
[EUT-82-E-131] 10 p1566 N84-20262
Efficient computation of the k-terminal reliability of directed acyclic networks
[AD-A136900] 10 p1570 N84-20286
Simulation methodology
[AD-A137127] 10 p1592 N84-20436
Advanced teleprocessing systems
[AD-A137944] 11 p1644 N84-20747
Distributed processing tools definition. Volume 1: Hardware and software technologies for tightly-coupled distributed systems
[AD-A137686] 11 p1704 N84-21105
Distributed processing tools definition. Volume 2: Application of software engineering technology
[AD-A137687] 11 p1704 N84-21106
Computer communications with Mauna Loa Solar Observatory
[PB84-137256] 11 p1705 N84-21114
The DARPA Internet project: M/A-COM LINKABIT eastern operation
[AD-A137661] 11 p1711 N84-21155
Design/Process optimization of paired computer interconnecting cable for local area networks 11 p1725 N84-21251
Method for accessing distributed heterogeneous databases 11 p1749 N84-21412
The Application of New Technologies to Improve the Delivery of Aerospace and Defence Information
[AGARD-CP-357] 11 p1750 N84-21425
Open systems interconnection for the defence community 11 p1750 N84-21426
The INet Gateway trial 11 p1750 N84-21427
Word processors in aerospace/defense information services: Use of distributed information systems by the Office of the Secretary of Defense 11 p1751 N84-21429
The standardization of bibliographic data 11 p1751 N84-21432
The application of management techniques to defence and other information services: The British approach 11 p1751 N84-21433
Computer-based conferencing 11 p1752 N84-21435
Automated document request and delivery systems in the United Kingdom 11 p1752 N84-21436
A study of optimal computer network architecture for digital avionics systems
[AD-A138151] 12 p1770 N84-21545
Protocol standards and implementation within the digital engineering laboratory computer network (DELNET) using the universal network interface device (UNID). Part 2
[AD-A138119] 12 p1806 N84-21777
A unified data flow model for fault tolerant computers
[NASA-CR-173479] 12 p1877 N84-22230
An automated computer communication network protocol verification system
[AD-A138160] 12 p1881 N84-22260
Design and implementation of an Input/Output interface protocol for the INTEL 432/670 computer system
[AD-A138429] 12 p1883 N84-22273
Materials properties data base computerization 12 p1889 N84-22303
A distributed data base management facility for the CAD/CAM environment 12 p1890 N84-22305
Distributed data base systems with special emphasis toward POREL 12 p1890 N84-22308
Control Data ICEM: A vendors IPAD-like system 12 p1890 N84-22309
RIM as an implementation tool for a distributed heterogeneous database 12 p1890 N84-22311
Continued development of a universal network interface device using the Intel 8086 and 8089 16-bit microprocessors
[AD-A138118] 12 p1891 N84-22319
Protocol standards and implementation within the digital engineering laboratory computer network (DELNET) using the Universal Network Interface Device (UNID), part 1
[AD-A138481] 12 p1892 N84-22320
The operator mapping between relational algebra operators and CODASYL based databases managed by a CODASYL DBMS
[AD-A138117] 12 p1918 N84-22497
Optimal file allocation problems for distributed data bases in unreliable computer networks, 2
[AD-P002913] 13 p1961 N84-22864
Empirical analysis of a token ring network
[AD-A133905] 13 p2030 N84-23164
Distributed elections in an Archimedean ring of processors (preliminary version)
[MC-IW-243/83] 13 p2035 N84-23202
French ONERA acquires U.S. supercomputer for research 13 p2038 N84-23226
Ternary transmission to local area networks
[AD-P002360] 14 p2193 N84-24151
Automated design of combinational networks under specific constraints: A theorem proving approach
[AD-P002377] 14 p2195 N84-24168
Synthesis algorithm for minimal components in T-ulm networks
[AD-P002379] 14 p2196 N84-24170
Introduction to computer-aided design/computer-aided manufacturing
[NLR-MP-83018-U] 15 p2393 N84-25363
Special or general purpose end-to-end transport mechanisms in distributed systems: One view
[DE84-008297] 15 p2395 N84-25367
Requirements for migration of NSSD code systems from LTSS to NLTSS
[DE84-009533] 15 p2395 N84-25368
Display units for online passage retrieval: A comparative analysis
[DE84-001004] 15 p2395 N84-25369
Embedding of networks of processors into hypercubes
[AD-A139647] 15 p2397 N84-25384
Query execution in the distributed RAP DBM systems 15 p2401 N84-25409

Secure reliable processing systems
[AD-A140150] 16 p2542 N84-26316
The embedded operating system project
[NASA-CR-173438] 16 p2542 N84-26319
Trends in data communication by computer networks in space missions
[INPE-3068-PRE/485] 16 p2545 N84-26338
An operating system for future aerospace vehicle computer systems
[NASA-TM-85784] 16 p2546 N84-26340
Bounds on network reliability
16 p2552 N84-26371
Optimization of query processing in distributed databases systems 16 p2557 N84-26474
Detonation parameters for Australian high-explosives composition
[MRL-R-822] 17 p2628 N84-26812
Top-down design and the algebra of communicating processes
[CWI-CS-R8401] 17 p2756 N84-27495
Adaptive topological configuration of an integrated circuit/packet-switched computer network
[AD-A141309] 18 p2830 N84-27966
Development of an AFIT (Air Force Institute of Technology) ADP system network model
[AD-A141253] 18 p2917 N84-28496
ELORG permanent exhibition
18 p2919 N84-28508
Considerations on command and response language features for a network of heterogeneous autonomous computers
[NASA-TM-86089] 18 p2923 N84-28535
The database management module of the SPLICE system
[AD-A132795] 18 p2945 N84-28671
The economics of computerized information dissemination 18 p2946 N84-28678
Organizing work with information flows in system for automated processing of data from remote sensing of the Earth for use in agriculture 19 p2977 N84-28873
Microcomputer network for Computerized Adaptive Testing (CAT): Program listing. Supplement
[AD-A141569] 19 p3077 N84-29521
NLTSS overview
[DE84-008536] 19 p3080 N84-29546
The impact of a computerized network on the quality of work life in two college of advanced education libraries in New South Wales 19 p3115 N84-29792
Graphics workstation switching unit
[DE84-011626] 20 p3275 N84-30788
Augmenting computer networks
[NASA-CR-172399] 20 p3277 N84-30800
Canonical realizations of completely regular modular computing networks
[AD-A142010] 20 p3277 N84-30802
Argonne integrated heterogeneous file transfer network
[DE84-012092] 20 p3277 N84-30803
Syntax and semantics of a LINCS control monologue
[DE84-011399] 20 p3277 N84-30805
Serial link protocol design: A critique of the X.25 standard, level 2
[DE84-002724] 20 p3278 N84-30806
Applying artificial intelligence to large networks
21 p3428 N84-31743
Fundamentals of computer security
[DE84-011476] 21 p3469 N84-31989
Modern control techniques for accelerators
[DE84-012521] 21 p3494 N84-32140
Array processor utilization in the computation of real-time images
[ARL-SYS-TM-73] 22 p3637 N84-33058
On the impact of communication complexity in the design of parallel numerical algorithms
[NASA-CR-172436] 22 p3637 N84-33059
Higher layer protocols for a workstation architecture
[DE84-013649] 22 p3641 N84-33087
Simulation of large networks of processors by smaller ones
[AD-A143529] 22 p3643 N84-33098
The allocation of data and programs in distributed data processing environments 22 p3670 N84-33261
A methodology for the distribution of databases
22 p3670 N84-33265
Asynchronous file transfer to IBM PC's
22 p3672 N84-33275
Data communication between data terminal equipment and the JPL administrative data base management system 22 p3672 N84-33276
LaRC local area networks to support distributed computing 22 p3673 N84-33281
Adaptive subject description in document retrieval
22 p3675 N84-33298
Optical propagation and communication
22 p3683 N84-33355
Detonation parameters for Australian high-explosives composition
[AD-A143655] 23 p3726 N84-33609
The creation of a central database on a microcomputer network
[AD-A143875] 23 p3835 N84-34326
Planetary Data Workshop, part 2
[NASA-CP-2343-PT-2] 23 p3842 N84-34376
Networking 23 p3843 N84-34381
Throughput for packet radio networks with dynamic power levels
[AD-A144415] 24 p3895 N84-34664
East Europe report: Science and technology
[JPRS-ESA-84-033] 24 p3943 N84-34960
Delta computer network to be expanded
24 p3943 N84-34961
East Europe report: Science and technology
[JPRS-ESA-84-027] 24 p3943 N84-34963
New computer developments described
24 p3943 N84-34965
Large scale software development project on the design of a computer network system 24 p3959 N84-35065

COMPUTER PROGRAM INTEGRITY
A methodology for collecting valid software engineering data
[AD-A131332] 02 p0272 N84-11781
A study of software failures and recovery in the MVS operating system
[AD-A132661] 05 p0728 N84-14783
An empirically developed Fourier series model for describing software failures
[AD-A132739] 05 p0729 N84-14787
Abstract type oriented dynamic vertical migration
[AD-A135840] 09 p1367 N84-18926
A statistical study of hardware related software errors in MVS
[AD-A135726] 09 p1368 N84-18931
Program mutation: An approach to software testing
[AD-A135775] 09 p1368 N84-18933
Greater emphasis on testing needed to make computer software more reliable and less costly
[PB84-113513] 09 p1370 N84-18944
Various aspects of network reliability
[AD-A136579] 09 p1384 N84-19038
Operational software technology working group report IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A137335] 10 p1504 N84-19832
Ada compiler validation summary report: NYU Ada/Ed, version 19.7 V-001
[AD-A136759] 10 p1557 N84-20201
Ada compiler validation summary report: ROLM Ada compiler, version 4.52 V-003
[AD-A136760] 10 p1557 N84-20202
Software quality measurement for distributed systems, volume 1
[AD-A137955] 11 p1707 N84-21128
Software quality measurement for distributed systems. Volume 2: Guidebook for software quality measurement
[AD-A137956] 11 p1707 N84-21129
Integrity in database systems
11 p1747 N84-21400
Reliability model demonstration study, volume 1
[AD-A138196] 12 p1881 N84-22262
Reliability model demonstration study, volume 2
[AD-A138197] 12 p1881 N84-22263
A guidebook for software reliability assessment
[AD-A139240] 14 p2205 N84-24233
Data General Corporation, Eclipse MV/8000, AOS/VS HICOBOL, revision 2.01
[PB84-157346] 14 p2206 N84-24241
Honeywell Information Systems, DPS 8/49, (8)BA2.3 BASIC compiler
[PB84-157296] 14 p2207 N84-24247
Intel Corporation INTEL System 86/330A, FoRTRAN 86 Release 2.1
[PB84-155134] 14 p2207 N84-24248
Prime Computer, Incorporated, Prime 750, COBOL-74 19.4, revised
[PB84-155985] 14 p2207 N84-24249
Data General Corporation, Eclipse MV/8000, AOS FORTRAN 77 2.21, revised
[PB84-156124] 14 p2207 N84-24250
COBOL technical report, United Information Services, Incorporated, CDC CYBER 175, CDC COBOL 5.3 level 552
[PB84-156587] 14 p2208 N84-24251
Wang Laboratories, Incorporated, VS-100 VS COBOL, Version 3.8.1
[PB84-156595] 14 p2208 N84-24252
COBOL technical report, Wang Laboratories, Incorporated, VS-100 VS COBOL Version 3.8.1
[PB84-156678] 14 p2208 N84-24253
Burroughs Corporation B7800, Large Systems BASIC 3.4.1
[PB84-157379] 14 p2208 N84-24254
IBM Corporation, IBM 5360 model B24, SYSTEM/36 BASIC Release 1 (5727-BL1)
[PB84-157171] 14 p2208 N84-24255
Validation summary report, United Information Services, Inc., CDC CYBER 175, CDC COBOL 5.3 level 552
[PB84-156679] 14 p2208 N84-24257
Validation summary report, Data General Corporation, Eclipse MV/8000, AOS/VS COBOL revision 2.18
[PB84-156116] 14 p2208 N84-24258
Validation summary report, NCR Corporation, NCR V8585, VRX FORTRAN version 25
[PB84-156108] 14 p2209 N84-24259
A sixth annotated bibliography of recent publications on data security and cryptography
[NPL-DITC-35/83] 15 p2385 N84-25305
Software quality assurance for ESA spacecraft and associated equipment
[ESA-PSS-01-21-ISSUE-1] 16 p2500 N84-26037
Guidelines for developing NASA (National Aeronautics and Space Administration) ADP security risk management plans
[NASA-CR-173564] 16 p2542 N84-26317
Guideline for computer security certification and accreditation. Category: ADP (Automatic Data Processing) operations. Subcategory: Computer security. Federal information processing standards
[FIPS-PUB-102] 20 p3268 N84-30736
Logistic support: A computer manufacturer's viewpoint
[AD-P003496] 21 p3514 N84-32262
Automated software testing
[AD-P003498] 21 p3515 N84-32264

COMPUTER PROGRAMMING
NT ASSEMBLER ROUTINES
NT LANGUAGE PROGRAMMING
NT LOGIC PROGRAMMING
NT MICROPROGRAMMING
NT MULTIPROGRAMMING
NT ON-LINE PROGRAMMING
NT PARALLEL PROGRAMMING
NT SYMBOLIC PROGRAMMING
Practical aspects of digital implementation of control laws 01 p0016 N84-10101
New control system for the SLAC accelerator klystrons for SLC
[DE83-012706] 01 p0073 N84-10480
A bathythermograph to sound velocity profile program for the HP-41CV calculator, including a Northern Hemisphere salinity profile library
[AD-A130761] 01 p0111 N84-10720
NSW (National Software Works) executive enhancements II
[AD-A129022] 01 p0120 N84-10781
Computer center introductory reference manual for CDC 6000
[AD-A130941] 01 p0122 N84-10797
AFWL benchmark computer program
[AD-A131273] 01 p0124 N84-10804
Future directions in large-scale scientific computing
[DE83-013229] 01 p0124 N84-10807
An overview of artificial intelligence and robotics. Volume 1: Artificial intelligence. Part B: Applications
[NASA-TM-85838] 01 p0128 N84-10834
Incomplete-Cholesky factorization by a matrix-partition algorithm
[DE83-013044] 01 p0134 N84-10879
East Europe report: Scientific affairs, no. 789
[JPRS-84426] 02 p0205 N84-11336
Programmed M3T 300 terminals discussed
02 p0205 N84-11337
A methodology for collecting valid software engineering data
[AD-A131332] 02 p0272 N84-11781
Representation of information in software documentation
[AD-A131470] 02 p0273 N84-11783
Documentation of concurrent programs
[AD-A131476] 02 p0273 N84-11784
Ada-Europe guidelines for the portability of Ada programs, second edition
[NPL-DITC-27/83] 03 p0419 N84-12739
Processing elements
[AD-A131068] 03 p0420 N84-12743
GRIDPACK: Toward unification of general grid programming
[AD-A131692] 03 p0420 N84-12746
Prerequisites for deriving formal specifications from natural language requirements
[AD-A131722] 03 p0424 N84-12771
Applied mathematical sciences research at Argonne
[DE83-3014268] 03 p0426 N84-12788
Why didn't Box-Jenkins win (again)?
[DE83-014043] 03 p0427 N84-12802

The programming and validation of the computerised version of the intermediate mental alertness test
[CSIR-PERS-303] 04 p0573 N84-13776
Design and implementation of a BASIC cross-compiler and virtual memory management system for the TI-59 programmable calculator
[AD-A132172] 04 p0577 N84-13808
The design of backtrack algorithms
[AD-A132299] 04 p0580 N84-13828
Utilization of Ada as a program design language
[AD-A132244] 04 p0580 N84-13830
Control of the HP3325 frequency synthesizer by a PDP 11 computer for gravitational experiments --- gravitational antennas, geophysical studies
[IFSI-83-9] 05 p0683 N84-14492
An instrument for the characterization of defects in ultrasonic inspections
[CISE-2073] 05 p0690 N84-14533
Fault detection using abstracted models of finite-state machines 05 p0721 N84-14724
CONSTRUCT: A tool for programming in the large
05 p0722 N84-14733
The software engineering environment project model (PROMOD) 05 p0722 N84-14737
The PET/MAESTRO: A user's view --- software design system 05 p0724 N84-14750
The project library PLUS: A general overview
05 p0724 N84-14751
A host-target programming support environment for the production of high-quality real-time systems
05 p0724 N84-14753
Software flexibility ensured success of Dutch Astronomical Netherlands Satellite (ANS) and Infrared Astronomical Satellite (IRAS) satellites
05 p0725 N84-14758
ANSI Ada and the UK M-CHAPSE
05 p0725 N84-14760
System specification for Ada integrated environment type A AIE(1)
[AD-A134080] 05 p0726 N84-14769
Relational programming
[AD-A133643] 05 p0728 N84-14779
Learning to program in LISP
[AD-A132611] 05 p0728 N84-14781
A computer science version of Goedel's theorem
[AD-A132903] 05 p0730 N84-14790
Investigation of intrinsically error-free programs
[AD-A132934] 05 p0730 N84-14791
System hardware for the implementation of frame protocol in packet switched networks
[FUB-58-1861] 05 p0731 N84-14803
Nonlinear inverse perturbation method in dynamic redesign 06 p0779 N84-15107
Vector coding the finite volume procedure for the CYBER 205 06 p0839 N84-15465
Development of theoretical models and analyses of the micro-physics of cloud and precipitation systems
[AD-A133557] 06 p0882 N84-15735
Classifying bugs is a tricky business
[AD-A133264] 06 p0895 N84-15813
Efficient demand-driven evaluation
[AD-A133477] 06 p0898 N84-15827
Walking machine control programming
[AD-A134435] 07 p1051 N84-16809
Some experiences with gasp-like microcomputer simulation languages in FORTRAN, Pascal, and Ada
[AD-A134543] 07 p1055 N84-16832
COBOL programming standards at Sandia labs
[DE84-001790] 07 p1055 N84-16835
Automatic synthesis of abstract data type implementations from abstract specifications
08 p1211 N84-17896
Desk-top computer controlled instrument lathe for machining with high form accuracy
[FOA-C-30339-E1,E3] 08 p1214 N84-17918
Inquiry semantics: A functional semantics of natural language grammar
[AD-A135153] 08 p1215 N84-17929
Computer programs for helicopter high speed flight analysis
[AD-A136376] 09 p1255 N84-18191
Development of a flight simulation concept and aerodynamic buildup for investigation of departure prevention systems in tactical aircraft
[AD-A136182] 09 p1259 N84-18221
An objective waveform comparison technique
[AD-A136130] 09 p1315 N84-18596
User centered system design
[AD-A136131] 09 p1364 N84-18907
Proceedings of the 9th World Computer Congress. IFIP (International Federation of Information Processing)
[AD-A136317] 09 p1365 N84-18911
Software development guidelines
[NASA-CR-171748] 09 p1366 N84-18919
OBJ-1, a study in executable algebraic formal specification
[AD-A136282] 09 p1367 N84-18922
Research in programming languages and software engineering
[AD-A136037] 09 p1369 N84-18937
A multivariable regression algorithm
[AD-A136630] 09 p1382 N84-19026
Concurrent algorithms as space-time recursion equations 09 p1400 N84-19143
Instructional systems development model for interactive videodisc
[AD-A136737] 10 p1498 N84-19790
Operational software technology working group report IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A137335] 10 p1504 N84-19832
Altering the application of the traditional systems lifecycle
[DE84-000052] 10 p1505 N84-19837
CYBER 200 Applications Seminar
[NASA-CP-2295] 10 p1558 N84-20208
Vectorized multigrid Poisson solver for the CDC CYBER 205 10 p1561 N84-20230
Programming productivity enhancement by the use of application generators
[AD-A137124] 10 p1562 N84-20235
Approach to programming multiprocessing algorithms on the Denelcor HEP
[DE84-005440] 10 p1565 N84-20251
RTMPL: A structured programming and documentation utility for real-time multiprocessor simulations
[NASA-TM-83606] 10 p1566 N84-20259
A revised STONEMAN for distributed Ada (trademark) support environments
[AD-A137940] 11 p1707 N84-21127
Guidelines-software verification
[DE84-003899] 11 p1709 N84-21138
Automatic, self-nulling, spectral scanning ellipsometer: Software for the LSI-11 data acquisition system
[DE83-015007] 11 p1709 N84-21139
Architecture for a user interface management system
[DE84-003982] 11 p1710 N84-21146
RAMIS DBMS update 11 p1748 N84-21407
First Chinese-built fighter simulator described
12 p1773 N84-21562
Manual for implementing a Shared Time Engineering Program (STEP) September 1980 through September 1983
[PB84-144260] 12 p1804 N84-21765
Development of a communications Front End Processor (FEP) for the VAX-11/780 using an LSI-11/23
[AD-A138152] 12 p1807 N84-21778
PSC, a programmable software controller for a multiple bladder, sequentially inflatable g-suit
[AD-A138069] 12 p1868 N84-22172
Solid modelling: History, status and current research directions 12 p1870 N84-22187
Installation representative guide
[DE83-008451] 12 p1878 N84-22241
CDC to CRAY FORTRAN conversion manual
[NASA-CR-166574] 12 p1879 N84-22243
Sire: An automated software development environment
[AD-A138022] 12 p1879 N84-22249
ADA1: An ADA subset compiler for the AFIT syntax directed programming environment
[AD-A138027] 12 p1880 N84-22251
A natural language interface for a PROLOG database
[AD-A138071] 12 p1880 N84-22254
Analyzing program methodologies using software science
[AD-A138121] 12 p1881 N84-22259
Implementation and evaluation of a core graphics system on a VAX 11/780 computer with a UNIX operating system
[AD-A138406] 12 p1882 N84-22271
PLAFST programmable logic array from state table
[AD-A138466] 12 p1883 N84-22275
How to use TRIX RED to format equations for REDPP and other tricks
[DE84-006328] 12 p1884 N84-22280
Implementation of a stand alone FORTRAN version of the TOPSIM simulation package --- communication systems analysis
[ESA-CR(P)-1825] 12 p1884 N84-22284
DATMAN FORTRAN user's guide version 3.0
[PB84-149251] 12 p1885 N84-22289
Programmable masks for optical information processing 12 p1906 N84-22415
NIPROP: A computer package for the thermodynamic and thermophysical properties of nitrogen
[OUEL-1485/83] 12 p1917 N84-22487
Automated hierarchical to CODASYL (Conference On Data Systems Languages) database interface schema translator
[AD-A138012] 12 p1918 N84-22498
Environment for scientific laboratories
[DE83-013848] 12 p1919 N84-22504
Reprogrammable onboard mission of IRAS
[NLR-MP-83014-U] 13 p1937 N84-22600
Current research in the Software Engineering Laboratory (SEL) 13 p2026 N84-23138
Structural coverage of functional testing
13 p2027 N84-23141
Examining functional acceptance testing with structural coverage metrics 13 p2027 N84-23142
Generalized monitoring facility. Users manual. Change 7
[AD-A138533] 13 p2028 N84-23151
A survey of three language-independent programming environments
[MC-IW-240/83] 13 p2029 N84-23160
Order-preserving dynamic hashing schemes for associative searching in data base systems
13 p2066 N84-23400
Some difficulties developing a large-scale research grade CAD program for a production environment
[DE84-005549] 14 p2142 N84-23845
Automatic synthesis of fine-motion strategies for robots
[AD-A139532] 14 p2188 N84-24107
Transactions of the 1st Army Conference on Applied Mathematics and Computing, held at Washington, D.C., 9-11 May 1983
[AD-A139224] 14 p2196 N84-24173
On the conversion of LINPACK to Ada
[AD-P002941] 14 p2197 N84-24181
Software tools survey
[PB84-145572] 14 p2208 N84-24256
Advances in transmission X-ray optics
[DE84-007235] 14 p2225 N84-24354
Verification of numerical algorithms
15 p2367 N84-25321
Three lectures on theorem-proving and program verification 15 p2368 N84-25324
Automating the transformational development of software. Volume 2: Appendices
[AD-A139918] 15 p2392 N84-25356
Fundamental design problems of distributed systems for the hard real-time environment
[AD-A139996] 15 p2392 N84-25358
Adaptive coherence estimation
[DE84-006486] 15 p2393 N84-25361
Research on new, fast, direct-executing programs for multiple microprocessor systems
[PB84-162791] 15 p2393 N84-25364
Special or general purpose end-to-end transport mechanisms in distributed systems: One view
[DE84-006297] 15 p2395 N84-25367
Portable environment for research in automated reasoning
[DE84-009212] 15 p2396 N84-25372
Special methods for spline functions associated to uniform grids
[HMI-B-361] 15 p2399 N84-25399
Minimum operational performance standards for traffic alert and collision avoidance system (TCAS) airborne equipment, volume 2
[RTCA/DO-185-VOL-2] 16 p2445 N84-25686
Requirements for validating system models
[AD-P002128] 16 p2525 N84-26214
The embedded operating system project
[NASA-CR-173436] 16 p2542 N84-26319
Programming language LANAC 2 and implementation for a SISCO MB-8000
[INPE-3090-TDL/163] 16 p2543 N84-26322
Travel report from the first International Programming Conference
[FOA-C-20520-D8] 16 p2544 N84-26332
Simulation of linear multivariable systems with piecewise continuous input functions and with various options for graphic representation of the results
[ESA-TT-749] 16 p2544 N84-26333
ACSL (Advanced Continuous Simulation Language) simulation of a third order Butterworth filter using implementations derived from both Z and S domain representations
[AD-A140302] 16 p2545 N84-26335
Virtual Z-trees: A balancing technique for multiway search trees
[INPE-3093-TDL/164] 16 p2547 N84-26348
Mathematical modelling of a continuum. Related modal analysis. Part 3: Programmer's manual
[ESA-CR(P)-1862-VOL-3] 16 p2553 N84-26377
Foundations of a numerical model of slant visibility
[ESA-TT-757] 16 p2557 N84-26403
Preliminary program manager's guide to Ada
[AD-A140347] 16 p2565 N84-26457

Functions in first order data bases
16 p2565 N84-26461
Selection of actuator locations for static shape control of large space structures by heuristic integer programing
[NASA-TM-85769] 17 p2616 N84-26741
Correlation methods 17 p2695 N84-27167
Microcomputer and mythology: Procrustean assignments
[INPE-3012-PRE/455] 17 p2749 N84-27449
Tutorial material on the real data types in Ada
[NFL-DITC-34/83] 17 p2751 N84-27458
Ada (Trademark) primer
[AD-A140660] 17 p2753 N84-27471
Ada (Trademark) case studies II
[AD-A140618] 17 p2753 N84-27475
A specification technique for the common APSE (Ada programming support environments) interface set
[AD-A140689] 17 p2754 N84-27479
On the design of an editor for the B programming language
[MC-IW-248/83] 17 p2754 N84-27484
EMG 7177 programmable graphic calculator, control system 18 p2827 N84-27948
An Electronic Counter Measures (ECM) program generator
[LEOK-TR-1983-13] 18 p2830 N84-27970
Streamflow modelling
[AD-A141281] 18 p2866 N84-28198
An implementation of the distributed programming structural synthesis system (PROSSS)
[NASA-TM-83253] 18 p2920 N84-28518
Interactive programming
[AD-A141186] 18 p2921 N84-28525
A concurrent PASCAL implementation on a Rolm 1664
[NLR-MP-83035-U] 18 p2922 N84-28531
NIMBUS observation processing system requirements NG-13. ERB master archival. Tape specification no. T134061 ERB Mst, revision 1
[NASA-TM-85388] 18 p2944 N84-28668
On dynamical formulation of a tethered satellite system with mass transport
[AD-A142312] 19 p2980 N84-28888
Reuse in the context of a transformation based methodology
[AD-A141514] 19 p2984 N84-28910
Robotic seam tracking
[AD-A141769] 19 p3031 N84-29228
Computer-aided mapping in the USA: Experiences from a study tour in November 1983
[FOA-C-20533-D8] 19 p3042 N84-29304
A tutorial for the Ramtek 9460 raster graphics system and the di-3000 graphics package
[AD-A141834] 19 p3078 N84-29530
Ada (registered trademark) technical overview. L102 teacher's guide
[AD-A141662] 19 p3078 N84-29532
An informal study of program comprehension
[AD-A142224] 19 p3079 N84-29534
Runtime detection and description of deadness errors in Ada tasking
[AD-A142239] 19 p3079 N84-29535
Computer graphics support service
[DE84-010001] 19 p3079 N84-29540
Topics in large sparse nonlinear optimization
[DE84-008933] 19 p3090 N84-29620
LONEX (Laboatory Office Network Experiment) cost/benefits study, volume 2
[AD-A141397] 19 p3114 N84-29787
Performance measurement in a distributed processing environment
[AD-A142410] 20 p3266 N84-30722
Supercomputers: The next ten years. A user's view
[DE84-011072] 20 p3267 N84-30727
A user-oriented laboratory data entry computer system designed to reduce errors
[DE84-011901] 20 p3267 N84-30730
The S-1 Mark IIA supercomputer
[DE84-012374] 20 p3267 N84-30732
Proceedings of the 2nd Annual Conference on Ada (Trademark) Technology
[AD-A142403] 20 p3269 N84-30745
Teaching Ada (trademark) at the US Military Academy
[AD-P003418] 20 p3270 N84-30750
Experiences in teaching Ada (trademark)
[AD-P003419] 20 p3270 N84-30751
Teaching Ada (trademark) at Hampton Institute
[AD-P003420] 20 p3270 N84-30752
The CECOM summer faculty research program
[AD-P003421] 20 p3270 N84-30753
Teach Ada (trademark) as the student's first programming language?
[AD-P003422] 20 p3270 N84-30754
An advanced host-target environment for the military computer family
[AD-P003428] 20 p3271 N84-30760
Ada (trademark) as a program design language: Have the major issues been addressed and answered?
[AD-P003430] 20 p3271 N84-30762
Ada (trademark) design language concerns
[AD-P003431] 20 p3271 N84-30763
Seeding the Ada (trademark) software components industry
[AD-P003432] 20 p3272 N84-30764
Guide to graphics at ANL, revised
[DE84-013189] 20 p3274 N84-30786
FORTRAN 8x: The scientific programming language of the future
[DE84-012526] 20 p3274 N84-30787
Guidelines for the design of large modular scientific libraries in Ada
[CWI-NM-N8401] 20 p3275 N84-30792
Unsteady transonic aerodynamic and aeroelastic calculations about airfoils and wings
[NASA-TM-85866] 21 p3324 N84-31092
Comparison of the full potential and Euler formulations for computing transonic airfoil flows
[NASA-TM-85963] 21 p3324 N84-31094
A programmable bus control interface
[AD-P003536] 21 p3332 N84-31140
The use of computer ISA (Instruction Set Architectures) and software standards at Westinghouse Defense Electronics Center
[AD-P003552] 21 p3334 N84-31156
Ada (Trademark) as a program design language. A rational approach to transitioning industry to the world of Ada through a program design language criteria
[AD-P003556] 21 p3335 N84-31160
The Ada (Trademark) run-time environment
[AD-P003558] 21 p3335 N84-31162
A code of practice to constrain Ada (Trademark)
[AD-P003559] 21 p3335 N84-31163
Architecture, hardware and software issues in fielding the next generation DOD processors
[AD-P003581] 21 p3339 N84-31186
Investigation and appreciation of optimal output feedback. Volume 1: A convergent algorithm for the stochastic infinite-time discrete optimal output feedback problem
[NASA-CR-3828] 21 p3344 N84-31217
Differential scanning calorimeter data acquisiton system
[AD-A143118] 21 p3405 N84-31600
The implementation and use of Ada on distributed systems with high reliability requirements
[NASA-CR-173841] 21 p3463 N84-31954
Specifying the behavior of concurrent systems
[NASA-CR-173839] 21 p3464 N84-31957
Accounting utility for determining individual usage of production level software systems
[NASA-CR-172414] 21 p3464 N84-31959
Ada (trade name) orientation for managers L101 teacher's guide
[AD-A141846] 21 p3465 N84-31968
Continuation of research in computer simulation of integrated circuits
[AD-A143005] 21 p3465 N84-31970
Automated Construction Management System (ACMS). Volume 2: Program documentation
[AD-A143032] 21 p3466 N84-31972
NETWORK: A user oriented, interactive, station-siting program for NOAA (National Oceanic and Atmospheric Administration) VHF weather radio
[PB84-202233] 21 p3466 N84-31978
Abstraction, specification and implementation techniques with an application to garbage collection — data processing
[MATH-CENTRE-TRACTS-166]
21 p3467 N84-31980
WARN: A warning formatter
[PB84-204551] 21 p3467 N84-31985
HEART OF GOLD: Computer routines for large sparse, least squares computations
[PB84-196492] 21 p3467 N84-31987
The surface generation using weighted splines
[INPE-3160-PRE/534] 21 p3470 N84-31994
The arithmetic of differentiation
[AD-A142964] 21 p3473 N84-32011
An adaptive CBT (Computer Based Training) courseware authoring system to meet the needs of military authors
[AD-P003460] 21 p3510 N84-32237
User-friendly software: The role of the user
[AD-P003489] 21 p3514 N84-32256
Automated software testing
[AD-P003498] 21 p3515 N84-32264
Automatic audit information system for software development
[AD-P003499] 21 p3515 N84-32265
INTERMD: A computer program to predict intermodulation product generation on two-way FM radio frequencies
[DE84-013767] 22 p3578 N84-32661
Programmable signal processing device
[AD-D011109] 22 p3580 N84-32673
Summary of research performed at MIT Laboratory for Computer Science
[AD-A143459] 22 p3636 N84-33064
Research on output feedback control of systems with ill-conditioned dynamics
[NASA-CR-173921] 22 p3639 N84-33071
ADA (trademark) training curriculum. Programming methodology m203 teacher's guide
[AD-A143581] 22 p3641 N84-33082
ADA (trademark) training curriculum. Basic ADA programming l202 teacher's guide, volume 1
[AD-A143584] 22 p3641 N84-33083
ADA (trademark) training curriculum. Basic ADA programming l202 teacher's guide, volume 2
[AD-A143585] 22 p3641 N84-33084
Solving low density knapsacks
[DE84-006964] 22 p3641 N84-33085
Prolonging the life of software
[DE84-001722] 22 p3641 N84-33068
S-1 software development and maintenance
[DE84-013071] 22 p3642 N84-33091
Programmer productivity aid catalog
[PB84-212166] 22 p3642 N84-33095
Analytical solution for computing first and second order ordinary differential equations using a method of series development
[INPE-2980-PRE/442] 22 p3645 N84-33110
Strip and load data 22 p3672 N84-33273
NATURAL graphics 22 p3672 N84-33274
The development of LANAC/II language for concurrent programming
[INPE-2781-PRE/347] 23 p3813 N84-34180
PASCAL-MP: A language for the algebraic and numerical manipulation of polynomials
[INPE-3057-PRE/477] 23 p3814 N84-34183
Methodology for software maintenance
[AD-A143763] 23 p3815 N84-34192
Software support for a video disc based terrain map display system
[AD-A143700] 23 p3834 N84-34324
Lamberton Robotics develops new robot to handle heavy loads 24 p3892 N84-34650
Optoelectronic programmable logic arrays
24 p3941 N84-34948
US Army Ada training curriculum. Curriculum catalog, 1984
[AD-A144188] 24 p3945 N84-34978
Ada (trademark) training curriculum. Advanced Ada Topics 1305, teacher's guide exercises
[AD-A144497] 24 p3947 N84-34993
Ada training curriculum. Advanced Ada topics l305 teacher's guide exercises, volume 3
[AD-A144500] 24 p3947 N84-34996
Multi-length arithmetic implementation and uses
[MR-179] 24 p3950 N84-35008
A computational logic with quantifiers
[AD-A144335] 24 p3951 N84-35016
Some algebraic properties of the monoid of languages and its applications 24 p3955 N84-35040

COMPUTER PROGRAMS

NT APPLICATIONS PROGRAMS (COMPUTERS)
NT ASSEMBLER ROUTINES
NT COMPILERS
NT COMPUTER SYSTEMS PROGRAMS
NT EDITING ROUTINES (COMPUTERS)
NT INPUT/OUTPUT ROUTINES
NT MERGING ROUTINES
NT NASTRAN
NT OPERATING SYSTEMS (COMPUTERS)
NT SOURCE PROGRAMS
NT SUBROUTINE LIBRARIES (COMPUTERS)
NT SUBROUTINES
ATOPS B-737 inner-loop control system linear model construction and verification
[NASA-CR-166055] 01 p0012 N84-10078
Design environments and the user interface for CAD of control systems 01 p0015 N84-10095
Numerical aspects of control design computations
01 p0015 N84-10097
A definition of STS accommodations for attached payloads
[NASA-CR-172223] 01 p0018 N84-10114
Space shuttle orbiter venting: Lessons learned
01 p0020 N84-10126
Explanation of the hypersonic longitudinal stability problem: Lessons learned 01 p0021 N84-10130
Space shuttle wing leading edge heating environment prediction derived from development flight data
01 p0025 N84-10162
Compiling the space shuttle wind tunnel data base: An exercise in technical and managerial innovators
01 p0026 N84-10166

Data analysis of the LLNL hydrogen igniter experiments
[DE83-010260] 01 p0037 N84-10236
A description of the NORDA satellite remote sensing hardware/software for prospective users
[AD-A130779] 01 p0067 N84-10438
Lecture notes for Bulk and Hourglass Viscosities in Wave Propagation Codes
[DE83-013042] 01 p0068 N84-10445
Modeling of parasitic effects in discrete passive components
[AD-A130458] 01 p0070 N84-10460
Computer program for performance and sizing analysis of compact counter-flow plate-fin heat exchangers, research and development report
[AD-A129856] 01 p0078 N84-10508
Numerical method for computing flow through partially saturated porous media
[DE83-007910] 01 p0081 N84-10529
Status of auto carto at the Defense Mapping Agency
[AD-A131235] 01 p0101 N84-10653
Stormer equation implementation using offset dipole coordinates derived from specified geographic coordinates
[AD-A130079] 01 p0104 N84-10676
Description of NCAR (National Center for Atmospheric Research) community climate model (CCM0B)
[PB83-231068] 01 p0110 N84-10715
YIDOYU-1: Computer system for optimal wing design 01 p0118 N84-10768
MAGNA (Materially And Geometrically Nonlinear Analysis). Part 2: Preprocessor manual
[AD-A129025] 01 p0120 N84-10782
MAGNA (Materially And Geometrically Nonlinear Analysis). Part 4. Quick-reference manual
[AD-A129026] 01 p0120 N84-10783
Issues in software maintenance
[AD-A130622] 01 p0121 N84-10786
The NEST chemistry computer program: Operations handbook
[AD-A130215] 01 p0121 N84-10788
Composite laminate weight optimization on the Timex-Sinclair 1000 microcomputer
[AD-A130214] 01 p0121 N84-10789
General 3rd Airborne antenna radiation pattern code users manual
[AD-A130359] 01 p0121 N84-10790
Verification of concurrent programs: A temporal proof system
[AD-A131501] 01 p0123 N84-10801
AFWL benchmark computer program
[AD-A131273] 01 p0124 N84-10804
Documentation for FDCALC and FDCORE
[DE83-013886] 01 p0124 N84-10808
FORTRAN 8X: A continuing language for numerical software
[DE83-014290] 01 p0124 N84-10809
CAMDAS (CAMAC data-acquisition system)
[DE83-014907] 01 p0124 N84-10810
User requirements and a high level design of the hydrographic software/data processing subsystem of an airborne laser hydrography system
[PB83-228569] 01 p0127 N84-10830
New program for the least-squares calculation of atomic energy levels
[DE83-014076] 01 p0143 N84-10941
Atmospheric transmittance/radiance computer code FASCOD2
[AD-A130241] 01 p0147 N84-10964
Transient response of superconducting microbridges to supercritical currents
[AD-A130913] 01 p0153 N84-11007
The development of FAST-FLOW (a program for flutter optimization to satisfy multiple flutter requirements) 02 p0171 N84-11124
A flutter optimization program for complete aircraft structural design 02 p0172 N84-11134
A computer program for estimating the aerodynamic characteristics of NACA 16-series airfoils
[NASA-TM-85696] 02 p0174 N84-11145
An approach to experimental investigation of jet plume effects on missile aerodynamics
[AD-A131336] 02 p0186 N84-11210
On setting up boundary conditions for soil-structure interaction problems with DYNALK (a ling from TENSOR to DYNA3D)
[DE83-016914] 02 p0206 N84-11344
Geometric models, antenna gains, and protection ratios as developed for BC SAT-R2 conference software
[NASA-TM-83381] 02 p0208 N84-11358
A FORTRAN computer program to compute the radiation pattern of an array-fed paraboloid reflector
[AD-A131060] 02 p0209 N84-11363
On-line traffic monitor
[AD-A131356] 02 p0209 N84-11364
COMPBL-II: Compressible, variable pressure boundary layer program for arbitrary gaseous mixtures
[AD-A131352] 02 p0218 N84-11427
SAGUARO: A finite-element computer program for partially saturated porous flow problems
[DE83-015603] 02 p0219 N84-11438
The rocket-triggered lightning investigation
[AD-A131409] 02 p0249 N84-11631
Microprocessor multi-task monitor
[DE83-012590] 02 p0270 N84-11769
Documentation of concurrent programs
[AD-A131476] 02 p0273 N84-11784
MAZE: An input generator for DYNA2D and NIKE2D
[DE83-016415] 02 p0274 N84-11795
FASTMENU: A set of FORTRAN programs for analyzing surface texture
[PB83-240838] 02 p0276 N84-11804
TRAN-STAT (statistics for environmental studies) no. 20, May 1982
[DE83-015096] 02 p0285 N84-11871
Review of Stirling-engine mathematical models
[DE83-016454] 02 p0301 N84-11974
Flight test validation of a design procedure for digital autopilots 03 p0312 N84-12036
Application of computational procedures in aerodynamic design 03 p0318 N84-12078
A study of wing-body aerodynamic interference of a light twin aircraft utilizing a panel method potential flow program 03 p0327 N84-12134
A generalized computer code for developing dynamic gas turbine engine models (DIGTEM)
[NASA-TM-83506] 03 p0333 N84-12166
Control of flexible spacecraft by optimal model following 03 p0342 N84-12222
Use of superposition in calculating cooling requirements for circuit cards containing arrays of electronic components
[DE83-016091] 03 p0373 N84-12428
Design and implementation of a preprocessing system for a sodium lidar
[NASA-CR-174595] 03 p0378 N84-12462
Evaluation of automated imagery analysis algorithms for use in the three-dimensional nephanalysis model at AFGWC (Air Force Global Weather Central)
[AD-A131986] 03 p0410 N84-12686
PLT: A multipurpose plotting package
[DE83-018261] 03 p0419 N84-12735
Computer system design environment software development plan
[AD-A131651] 03 p0420 N84-12747
Environments and search paths for the software tools
[DE83-016607] 03 p0420 N84-12749
Perkin-Elmer, Perkin-Elmer 3230 COBOL R07 (pre-release)
[PB83-238600] 03 p0423 N84-12766
Prerequisites for deriving formal specifications from natural language requirements
[AD-A131722] 03 p0424 N84-12771
Numerical solution of the three-dimensional unsteady Euler equations
[AD-A132034] 03 p0425 N84-12783
Dynasty 2: A nonlinear implicit code for relativistic electron beam tracking studies
[AD-A131592] 03 p0432 N84-12829
A 2-D skin-current toroidal-MHD-equilibrium code
[DE83-016916] 03 p0446 N84-12929
The computerization of material safety data sheet information
[AD-A131992] 03 p0459 N84-13021
Information retrieval research support
[AD-A131990] 03 p0459 N84-13022
Galilean satellite geomorphology
[NASA-CR-174574] 03 p0464 N84-13057
XTRAN2L: A program for solving the general-frequency unsteady transonic small disturbance equation
[NASA-TM-85723] 04 p0479 N84-13150
Specification for a Program for an Interative Aeroelastic Solution (PIAS)
[NASA-CR-172200] 04 p0479 N84-13153
PDF: A computer program for calculation of turbulent combustion utilizing a Probabilty Density Function (PDF) approach
[DE84-000999] 04 p0494 N84-13240
CI: A computer program for calculation of contact indexes which will correct reaction rates evaluated by mean quantities during simulation of turbulent combustion
[DE84-001000] 04 p0494 N84-13244
Thermodynamic surface for water: The formulation and computer programs
[PB83-249789] 04 p0496 N84-13256
Computational models for cyclic plasticity, rate dependence and creep in finite element analysis
[PB83-245829] 04 p0505 N84-13308
The computer fire codes and required new data 04 p0513 N84-13369
Flame heights, flame radiation and flame spread 04 p0513 N84-13371
Recent progress at NBS in fire growth modeling 04 p0513 N84-13372
Programmer's manual for the fire safety evaluation system cost minimizer computer program
[PB83-251447] 04 p0517 N84-13395
Algorithms for single-signal and multisignal minimum-cross-entropy spectrum analysis
[AD-A132400] 04 p0520 N84-13420
Calculation of natural convection within a heated enclosure using the method of second moments
[DE84-001596] 04 p0535 N84-13517
Oak Ridge heat-pump models. Part 1. A steady-state computer design model for air-to-air heat pumps
[DE84-001577] 04 p0535 N84-13519
Probabilistic fatigue life predictions of structural components in high-cycle fatigue regimes
[AD-A132425] 04 p0549 N84-13615
Air mass computer program for atmospheric transmittance/radiance calculation: FSCATM
[AD-A132108] 04 p0563 N84-13712
Analysis and modeling of photosynthetic bacterial hydrogen production plants
[DE84-000003] 04 p0570 N84-13758
Computer-based training starter kit
[PB83-248815] 04 p0574 N84-13780
The design and implementation of debugging systems for languages with advanced control structures 04 p0578 N84-13811
PREWATE: An interactive preprocessing computer code to the Weight Analysis of Turbine Engines (WATE) computer code
[NASA-TM-83545] 04 p0578 N84-13812
A program for the automatic request of magnetic tapes filing and reading of its contents (processor PCINTA)
[JEN-545] 04 p0578 N84-13815
Code BETAL to calculation Alpha/Beta activities in environmental samples
[JEN-549] 04 p0578 N84-13816
Formal techniques in the management of software design
[AD-A132569] 04 p0579 N84-13818
Model Statement Language/analyzer (MSL/MSA): A top-down Problem Statement Language/analyzer (PSL/PSA) approach for the user dialogue in decision support systems
[AD-A132273] 04 p0580 N84-13829
A user's guide to ARSPIC: The univariate time series analysis program for autoregressive spectral information quantile identification
[AD-A132217] 04 p0581 N84-13831
Computer software summaries, numbers 424 through 693
[DE83-015297] 04 p0581 N84-13834
FACET: A radiation-view-factor computer code for axisymmetric, 2D planar and 3D geometries with shadowing
[DE84-000359] 04 p0581 N84-13835
T-HEMP3D user manual
[DE84-000526] 04 p0582 N84-13845
ANALYSIS/PLOT: A graphics package for use with the SORT/ANALYSIS data bases
[DE83-017886] 04 p0583 N84-13847
NOSTRUM: A finite element program for nonlinear structural mechanics
[TR-18] 04 p0587 N84-13881
Analysis-plot generation code with significance levels computed using Kolmogorov-Smirnov statistics valid for both large and small samples
[DE84-001581] 04 p0592 N84-13907
A survey of underwater-acoustic ray tracing techniques
[PB83-250522] 04 p0596 N84-13931
ARCHSIM: A proton-synchrotron tracking program, including longitudinal space charge
[DE84-001335] 04 p0599 N84-13952
Calculation of ion charge-state distribution in ECR ion sources
[DE84-000517] 04 p0600 N84-13957
Design and performance of a fixed, nonaccelerating, guide vane cascade that operates over an inlet flow angle range of 60 deg
[NASA-TM-83519] 05 p0626 N84-14120
A 2-dimensional numerical study of detonation propagation between munitions by means of shock initiation
[AD-A133680] 05 p0661 N84-14348
Communications network design and costing model programmers manual
[NASA-CR-168237] 05 p0666 N84-14377
ELF/VLF (Extremely Low Frequency/Very Low Frequency) long path pulse program for antennas of arbitrary elevation and orientation
[AD-A133876] 05 p0667 N84-14388

XWVG: A waveguide program for trilinear tropospheric ducts. Computer program for calculating the signal levels of EM (Electromagnetic) waves propagating over seawater
[AD-A133667] 05 p0669 N84-14399
Semiconductor measurement technology: A FORTRAN program for analysis of data from microelectronic test structures
[PB83-263764] 05 p0677 N84-14454
A finite element analysis of incompressible laminar and turbulent flow with heat transfer past irregular surfaces 05 p0682 N84-14485
Heat transfer, pressure drop, and fluid flow in interrupted wall passages 05 p0682 N84-14487
A simplified method for elastic-plastic-creep structural analysis
[NASA-TM-83509] 05 p0692 N84-14542
Bending of beams subjected to transverse impacts
[MRL-R-886] 05 p0692 N84-14544
The programs used to compare the predictions of some geomagnetic models with the measurements from the experiment S-331 onboard the GEOS-1 satellite
[IFSI-82-2] 05 p0705 N84-14627
Computer aided techniques for crew station design, work-space Organizer-WORG, workstation layout Generator-WOLAG
[AD-A132981] 05 p0716 N84-14693
USERSIN: An interactive user-interface for FORTRAN SIN
[MRL-R-877] 05 p0721 N84-14728
AMDC: An automated system for handling error notification data — amendments on UNIX (trademark); AMIX 05 p0722 N84-14734
EDDA: A very high level data flow specification language 05 p0722 N84-14735
Software configuration management 05 p0723 N84-14742
Ada and the NASA software environment 05 p0724 N84-14749
The PET/MAESTRO: A user's view — software design system 05 p0724 N84-14750
Onboard software testing and qualification 05 p0724 N84-14754
SPOT on-board software test and validation: Methodology and tools 05 p0724 N84-14755
Software quality assurance Spacelab experience and future trends 05 p0725 N84-14759
Comparison of the portable Program ECS Package for Synchronous Orbit Control (PEPSOC) and the ESOC Multi-Satellite Support System (MSSS) control software 05 p0725 N84-14762
Computer program development specification for Ada integrated environment: KAPSE (Kernel Ada Programming Support Environment)/Database, type b5, B5-AIE(1).KAPSE(1)
[AD-A134092] 05 p0726 N84-14766
Computer program development specification for Ada integrated environment: Virtual memory methodology, B5-AIE(1).VMM(2)
[AD-A134091] 05 p0726 N84-14767
System specification for Ada integrated environment type A AIE(1)
[AD-A134080] 05 p0726 N84-14769
Nonlinear regression analysis methodology for the estimation of detection probabilities from empirical data
[AD-A134078] 05 p0727 N84-14770
Computer program development specification for Ada integrated environment: MAPSE debugging facilities, B5-AIE(1).DBUG(1)
[AD-A134070] 05 p0727 N84-14771
Computer program development specification for Ada integrated environment. MAPSE command processor B5-AIE(1).MCP (1)
[AD-A134033] 05 p0727 N84-14772
Computer program development specification for Ada integrated environment: Program integration facilities, type b5, B5-AIE (1). PIF (1)
[AD-A134003] 05 p0727 N84-14774
Efficient demand-driven evaluation (2)
[AD-A133879] 05 p0727 N84-14776
SPECAN (Spectral Analysis): A program in ACSL for stochastic time series analysis
[AD-A133719] 05 p0728 N84-14777
Design and implementation of software protocol in VAX/VMS using ethernet local area network
[AD-A133699] 05 p0728 N84-14778
Generating data flow programs from nonprocedural specifications
[AD-A132609] 05 p0728 N84-14780
Interface specifications for the SCR (A-7E) application data types module
[AD-A132717] 05 p0729 N84-14785
A user's guide to BISAM: The bivariate data modeling program
[AD-A132722] 05 p0729 N84-14786
An empirically developed Fourier series model for describing software failures
[AD-A132739] 05 p0729 N84-14787
Investigation of intrinsically error-free programs
[AD-A132934] 05 p0730 N84-14791
Factors affecting specifications for computer software programs
[AD-A133070] 05 p0730 N84-14792
Microcomputer scientific software series 1: The numerical information manipulation system
[PB83-263624] 05 p0731 N84-14797
Microcomputer scientific software series 2: General linear model-regression
[PB83-263632] 05 p0731 N84-14798
Microcomputer scientific software series 3: General linear model-analysis of variance
[PB83-263640] 05 p0731 N84-14799
Some remarks on the role of logic in knowledge representation
[AD-A132534] 05 p0732 N84-14806
Methods for choosing buffer size in tandem production operations
[AD-A132639] 05 p0735 N84-14828
Accurate efficient evaluation of cumulative or exceedance probability distributions directly from characteristic functions
[AD-A133703] 05 p0740 N84-14858
A calculator adaptation of the Markov chain model for manpower analysis
[AD-A132960] 05 p0757 N84-14966
CADAS: A computer aided design tool for avionic systems 06 p0773 N84-15085
Automating the testing of software 06 p0774 N84-15074
A dynamic approach to military avionics systems testing 06 p0774 N84-15075
TAS: A Transonic Aircraft/Store flow field prediction code
[NASA-CR-3721] 06 p0781 N84-15114
Advanced automation program. Program master plan
[DOT/FAA/AP-83/3] 06 p0785 N84-15139
Aerothermal modeling. Executive summary
[NASA-CR-166330] 06 p0790 N84-15152
A study to determine the accuracy of 2 computer programs in predicting hinge moments for all movable tail fins on missile bodies
[AD-A133399] 06 p0793 N84-15169
Heat capacity and thermodynamic properties of linear macromolecules 06 p0809 N84-15263
Nonlinear viscoelastic characterization of structural adhesives
[NASA-CR-172279] 06 p0809 N84-15268
LARC: Computer codes for Lagrangian analysis of stress-guage data to obtain decomposition rates through correlation to thermodynamic variables
[DE84-002404] 06 p0813 N84-15292
Computer program for analysis of split-Stirling-cycle cryogenic coolers 06 p0820 N84-15344
Fully-coupled analysis of jet mixing problems. Part 1. Shock-capturing model, SCIPVIS
[NASA-CR-3761] 06 p0834 N84-15425
Numerical solution to the steady state equation of transfer in azimuthally symmetric geometries — heat transfer and molecular flow
[DE84-001781] 06 p0845 N84-15509
Eleventh NASTRAN User's Colloquium
[NASA-CP-2284] 06 p0858 N84-15590
BANDIT in NASTRAN 06 p0858 N84-15591
NASA/MSFC NASTRAN auxiliary I/O routines 06 p0858 N84-15592
Using PAFEC as a preprocessor for COSMIC/NASTRAN 06 p0858 N84-15593
The GPRIME approach to finite element modeling 06 p0859 N84-15594
Generalizing the TRAPRG and TRAPAX finite elements 06 p0859 N84-15596
An alternative method of analysis for base accelerated dynamic response in NASTRAN 06 p0859 N84-15598
A NASTRAN DMAP procedure for calculation of base excitation modal participation factors 06 p0859 N84-15599
Computer-Aided Structural Engineering (CASE) project. User's guide: Computer graphics program for generation of engineering geometry (SKETCH)
[AD-A133600] 06 p0861 N84-15611
Determination of propagation limitations at HF by real-time update of a computer model from oblique sounder data 06 p0869 N84-15660
Elliptic solvers for NORDA ocean models and a quasi-geostrophic regional eddy-mean energetics package
[AD-A133754] 06 p0884 N84-15751
Computer science and technology: Future information processing technology, 1983
[PB83-257618] 06 p0896 N84-15820
Development of an interactive computer program to produce body description data
[AD-A133720] 06 p0897 N84-15822
Report and recommendations for improving constitutive relations used in computer codes — shock mechanics in solids
[AD-A133239] 06 p0897 N84-15823
PROUST: Knowledge-based program understanding
[AD-A133447] 06 p0897 N84-15825
Sparse Matrix Software Catalog
[AD-A133559] 06 p0898 N84-15830
Introduction to the FORTRAN 14 programs Duvorol and Contact for the solution of 3 D elastostatic half-space contact problems with and without friction
[PB83-147421] 06 p0898 N84-15833
An investigation of the indirect boundary element method in One- and two-dimensional elastostatics
[AD-A133142] 06 p0900 N84-15843
A new numerical method for the transient gas-dyanmic code EVENT
[LA-9594-MS] 06 p0920 N84-15977
Studies of neutron and proton nuclear activation in low-Earth orbit 2 06 p0930 N84-16041
Perspectives on oversight management of software development projects
[AD-A133404] 06 p0933 N84-16064
FGGE/SMMR-30 tape specification and shipping letter description
[NASA-CR-170550] 06 p0935 N84-16074
Local automation model: Functional description
[AD-A133389] 06 p0935 N84-16077
The linear vortex distribution using the alternative approach
[NIAST-82/80] 07 p0945 N84-16133
Assessment of three-dimensional inviscid codes and loss calculations for turbine aerodynamic computations
[NASA-TM-83571] 07 p0947 N84-16142
A lifting surface computer code with jet-in-crossflow interference effects. Volume 1: Theoretical description
[NASA-CR-166524] 07 p0947 N84-16147
Digital computer program for generating dynamic turbofan engine models (DIGTEM)
[NASA-TM-83446] 07 p0954 N84-16185
A study of washout filters for a simulator motion base
[UTIAS-TN-246] 07 p0959 N84-16218
Centaur D-1A guidance/software system
[NASA-TM-83552] 07 p0962 N84-16234
The IF-77 electromagnetic wave propagation model
[AD-A134504] 07 p0993 N84-16441
BERTHA: A versatile transmission line and circuit code
[DE84-002984] 07 p0998 N84-16474
Buckling of flat rectangular orthotropic plates - computer program. (Application to laminated composite plates)
[ESDU-81047] 07 p1014 N84-16580
Buckling loads of stiffened panels subjected to combined longitudinal compression and shear: Results obtained with PASCO, EAL, and STAGS computer programs
[NASA-TP-2215] 07 p1015 N84-16585
Some considerations on boundary integral equation method: A dynamic program for two-dimensional fracture mechanics problems
[OUEL-1468/83] 07 p1017 N84-16600
The graphical kernel system: Concepts and realization in Common Graphical Manager (CGM) — software package 07 p1018 N84-16605
A program system for computer assisted acquisition and analysis of classification maps in land association 07 p1019 N84-16611
Stability enhancement of a flexible robot manipulator
[AD-A134185] 07 p1051 N84-16807
Performance criteria for comparing constrained nonlinear programming codes
[CSIR-TWISK-279] 07 p1053 N84-16822
A computer study of detonation waves in dispersed powdered high explosives
[AD-A134226] 07 p1054 N84-16827
Microcomputer software system development: Suggested revisions to MIL-STD-1521A for cost-effective acquisition of custom software through software engineering
[AD-A134363] 07 p1055 N84-16830
SAMPLE: Software for VAX FORTRAN execution timing
[DE84-003819] 07 p1055 N84-16834
Software for computer controlled X-ray photoelectron and Auger Spectroscopy
[DE84-003912] 07 p1056 N84-16837
ARIES: A computer program for the solution of first kind integral equations with noisy data
[DE84-003908] 07 p1056 N84-16838
Error latency estimation using functional fault modeling
[NASA-CR-173207] 07 p1058 N84-16856

The use of refined error bound when updating eigenvalues of tridiagonals
[AD-A134163] 07 p1061 N84-16879

HEXANN-EVALU: A Monte Carlo program system for pressure vessel neutron irradiation calculation
[VTT-RR-210] 07 p1073 N84-16975

Recommended test and evaluation and independent verification and validation actions for the Defense Data Network
[AD-A134167] 07 p1084 N84-17049

RSAW: A computer program for processing and presentation of geographic information
[FOA-C-20473-D8(F8)] 07 p1085 N84-17057

Computer modeling of aircraft cabin fires
[PB84-101153] 08 p1101 N84-17162

A program for computer-controlled impedance measurement within the microwave range — antennas
[FOA-C-30330-E3] 08 p1146 N84-17460

Estimating the performance of telecommunication systems using the ionospheric transmission channel. Ionospheric communications analysis and prediction program user's manual
[PB84-111210] 08 p1147 N84-17488

Computer models for two-dimensional transient heat conduction
[AD-A134893] 08 p1160 N84-17549

Summary of earthquake intensity file: A computerized file of the effects of earthquakes in the United States
[PB84-101443] 08 p1189 N84-17745

Use of digitized radar and microcomputers to forecast local floods and irrigation needs
[PB84-105568] 08 p1192 N84-17767

TERR, PERR, and GIGC: Three programs to compute verification statistics
[PB84-127521] 08 p1193 N84-17775

Meteorological applications library (CRH.LB)
[PB84-122639] 08 p1193 N84-17776

Analysis of electrical accident prevention countermeasures
[PB84-102987] 08 p1207 N84-17869

Verification of concurrent programs: A temporal proof system 08 p1209 N84-17884

BERTHA: A versatile transmission line and circuit code
[AD-A135024] 08 p1209 N84-17886

A computer program for solving the parabolic equation using an implicit finite-difference solution method and incorporating exact interface conditions
[AD-A135325] 08 p1212 N84-17903

TIGS (table plot interactive graphics system)--an interactive graphical system for the creation and correction of tabular data sets
[AD-A135522] 08 p1212 N84-17906

Empirical studies of program behaviour in virtual memory
[PB84-112267] 08 p1214 N84-17921

Initial graphics exchange specification test library, version 1.3
[PB84-102144] 08 p1214 N84-17922

Thermodynamics library for AFOS (Automation of Field Operations and Services) programmers (THERMO LB)
[PB84-122621] 08 p1215 N84-17925

The effect of locus of control on performance with man-machine dialogues 08 p1239 N84-18098

A method of measurement of behavioral factors affecting information systems design and use: An application of multidimensional scaling in uncovering individual psychological structure 08 p1239 N84-18099

Multidomain, multirecord-type Datatrieve-11 databases
[DE84-001707] 08 p1241 N84-18110

Strapdown inertial guidance system: Onboard software and its evaluation
[NAL-TR-775] 09 p1254 N84-18184

Computer program for preliminary helicopter design
[AD-A136026] 09 p1256 N84-18197

A user's manual for Electromagnetic Surface Patch (ESP) code. Version 2: Polygonal plates and wires
[AD-A135837] 09 p1300 N84-18497

Intrasystem Analysis Program (IAP) code summaries
[AD-A135673] 09 p1301 N84-18507

A study of atmospheric transmission in the wavelength regions of 0.35 micrometers to 14 micrometers
[AD-A135721] 09 p1302 N84-18510

Electromagnetic near-field computations for a broadcast monopole using Numerical Electromagnetics Code (NEC)
[AD-A135975] 09 p1303 N84-18516

Transverse mode formation in positive branch unstable resonators
[AD-A136515] 09 p1322 N84-18635

Reanalysis methods for structures with laser induced damage
[AD-A135874] 09 p1322 N84-18638

Design optimization of marine reduction gears
[AD-A136352] 09 p1325 N84-18656

Computer-aided analysis of concrete strength test results
[AD-A136265] 09 p1330 N84-18686

Computer-model results for the beach-escarpment-induced distortion of onshore wind flow at the northwest point of San Nicolas Island, California
[AD-A135952] 09 p1349 N84-18815

Airborne penetration of radioactive clouds
[AD-A135848] 09 p1361 N84-18894

Writing TSO (Time Sharing Option) commands in FORTRAN
[AD-A136584] 09 p1367 N84-18925

Synthesis of efficient structures for concurrent computation
[AD-A135892] 09 p1368 N84-18930

Program mutation: An approach to software testing
[AD-A135775] 09 p1368 N84-18933

Data and analysis center for software: An IAC in transition
[AD-A135985] 09 p1369 N84-18936

Research in programming languages and software engineering
[AD-A136037] 09 p1369 N84-18937

Computer programs for continuum measurements at the Metsaehovi Radio Research Station
[REPT-S-130] 09 p1370 N84-18943

Greater emphasis on testing needed to make computer software more reliable and less costly
[PB84-113513] 09 p1370 N84-18944

Program ERROR
[PB84-128081] 09 p1370 N84-18946

Guidance on software maintenance
[PB84-128951] 09 p1371 N84-18952

State of the art in eigenvalue computations 09 p1401 N84-19154

Improved computer programs for microwave Sun observation at the Metsaehovi radio research station
[REPT-S-140] 09 p1417 N84-19269

Automated en route air traffic control algorithmic specifications. Volume 5: Data specification
[AD-A136851] 10 p1426 N84-19325

Automated en route air traffic control algorithmic specifications. Volume 1: Trajectory estimation
[AD-A137068] 10 p1426 N84-19326

ESATAN: A thermal network analysis computer program 10 p1443 N84-19426

Machine intelligence research applied to industrial automation
[PB84-123348] 10 p1473 N84-19618

Simulations for full unit-memory and partial unit-memory convolutional codes with real-time minimal-byte-error probability decoding algorithm 10 p1474 N84-19629

Signal-to-noise ratio and combiner weight estimation for symbol stream combining 10 p1474 N84-19630

Telemetry simulation assembly implementation in the DSN 10 p1475 N84-19633

A layered communication system for ethernet
[AD-A136799] 10 p1481 N84-19676

Radome analysis
[AD-A136805] 10 p1481 N84-19677

Adaptive cancellation techniques
[AD-A136946] 10 p1481 N84-19680

Heat transfer in oscillatory flow
[DE84-005193] 10 p1494 N84-19768

Operational software technology working group report IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A137335] 10 p1504 N84-19832

Vibration test software for electronics mounted in a remotely piloted vehicle 10 p1513 N84-19904

Numerical determination of the effects of boundary conditions on the instability of composite panels with cutouts
[AD-A136772] 10 p1517 N84-19931

Analyzing sliding stability of structures using the modified computer program GWALL, revision
[AD-A136954] 10 p1517 N84-19934

Buckling of stiffened cylindrical bins under wind loading
[PB84-137926] 10 p1518 N84-19941

AFOS (Automation of Field Operations and Services)-era forecast verification
[PB84-129303] 10 p1541 N84-20096

Slick and quick data entry for AFOS Era Verification (AEV) programs
[PB84-138726] 10 p1542 N84-20103

Development INTERDATA 8/32 computer system
[NASA-CR-175425] 10 p1556 N84-20197

Ada compiler validation summary report: ROLM Ada compiler, version 4.42 V-002
[AD-A136732] 10 p1557 N84-20199

Ada compiler validation report: Western digital STC-Ada compiler, version C1.OM V-004
[AD-A136738] 10 p1557 N84-20200

Vectorized Monte Carlo methods for reactor lattice analysis 10 p1559 N84-20218

Fundamental organometallic reactions: Applications on the CYBER 205 10 p1560 N84-20221

Navier-Stokes simulation of homogeneous turbulence on the CYBER 205 10 p1560 N84-20224

Efficient spares matrix multiplication scheme for the CYBER 203 10 p1561 N84-20225

Modeling material failure with a vectorized routine 10 p1561 N84-20226

Preliminary results in implementing a model of the world economy on the CYBER 205: A case of large sparse nonsymmetric linear equations 10 p1561 N84-20228

A Kosloff/Basal method, 3D migration program implemented on the CYBER 205 supercomputer 10 p1562 N84-20232

Vectorization of a penalty function algorithm for well scheduling 10 p1562 N84-20233

SIMTBED: A graphical test bed for analyzing and reporting the results of a statistical simulation experiment
[AD-A136812] 10 p1563 N84-20243

Software Acquisition Resource Expenditure (SARE) data collection methodology
[AD-A137084] 10 p1564 N84-20247

Introduction to GEMINI
[DE84-005058] 10 p1564 N84-20248

Approach to programming multiprocessing algorithms on the Denelcor HEP
[DE84-005440] 10 p1565 N84-20251

Three-dimensional graphics for scientific data display and analysis
[DE84-004075] 10 p1565 N84-20253

Ray modeling methods for range dependent ocean environments
[AD-A137202] 10 p1569 N84-20278

Computer program for evaluating the ives transformation in turbomachinery cascades, revision
[AD-A137064] 10 p1571 N84-20295

Hybrid vehicle simulation
[AD-A136950] 10 p1594 N84-20445

Theoretical studies of X-ray emission from supernova remnants and other non-equilibrium astrophysical plasmas
[NASA-CR-175394] 10 p1597 N84-20468

Historical inflation program. A computer program generating historical inflation indices for Army aircraft: Revision
[AD-A137670] 11 p1599 N84-20474

A method for computing the leading-edge suction in a higher-order panel method
[NASA-CR-3730] 11 p1600 N84-20479

Computer program for prediction of the deposition of material released from fixed and rotary wing aircraft
[NASA-CR-3780] 11 p1600 N84-20482

Progress toward the development of an aircraft icing analysis capability
[NASA-TM-83562] 11 p1601 N84-20490

Numerical studies of the deposition of material released from fixed and rotary wing aircraft 11 p1602 N84-20491

Development of a VOR/DME model for an advanced concepts simulator
[NASA-TM-85717] 11 p1604 N84-20505

Implications of control technology on aircraft design 11 p1615 N84-20573

Tools for active control system design 11 p1617 N84-20582

Discussion of moment method codes with emphasis on aperture coupling
[DE84-005116] 11 p1644 N84-20751

Topics in the optimization of millimeter-wave mixers
[NASA-TP-2287] 11 p1645 N84-20758

Numerical modeling of parametric uncertainties in flow through porous media: Development and initial testing of PORSTAT
[DE84-006682] 11 p1654 N84-20798

Calibration of engines laboratory air flow measuring devices
[AD-A137909] 11 p1660 N84-20831

Videodisc premastering facility: Technical evaluation
[PB84-135821] 11 p1661 N84-20840

Development of a simplified procedure for cyclic structural analysis
[NASA-TP-2243] 11 p1667 N84-20878

Static and dynamic structural-sensitivity derivative calculations in the finite-element-based Engineering Analysis Language (EAL) system
[NASA-TM-85743] 11 p1668 N84-20880

Bending of beams subjected to transverse impacts
[AD-A137840] 11 p1668 N84-20884

Spectroradiometric calibration of the thematic mapper and multispectral scanner system
[NASA-CR-175405] 11 p1671 N84-20905

Longwave radiation parameterization for UCLA/GLAS GCM
[NASA-TM-86072] 11 p1681 N84-20971

A computer code to calculate emission and transmission of infrared radiation through non-equilibrium atmospheres
[AD-A137162] 11 p1683 N84-20980

Relationship between global fossil-fuel consumption and the concentration of carbon dioxide in the atmosphere, part 2
[PB84-136841] 11 p1683 N84-20985

Distributed processing tools definition. Volume 3: An integrated software engineering environment for distributed processing software development
[AD-A137686] 11 p1704 N84-21107

SANDUS MA164 digital data acquisition system specifications, November 8, 1982
[DE84-006502] 11 p1704 N84-21110

Proceedings of the 4th LAN-Transport Workshop
[PB84-136825] 11 p1705 N84-21116

A practical guide to MAXLIK
[RAND/N-1914-RC-REV] 11 p1706 N84-21118

Atmospheric transmittance/radiance: Computer code LOWTRAN 6
[AD-A137786] 11 p1707 N84-21126

An analysis of application generators
[AD-A137159] 11 p1708 N84-21131

Nonparametric statistics test software package
[AD-A137170] 11 p1708 N84-21132

MAPPER user's manual
[DE84-003478] 11 p1708 N84-21133

Operation of a computer aided drafting system: Improvement, results and hopes
[DE84-005176] 11 p1708 N84-21134

Graphics specification for graphical requirements for computer-aided control system design
[DE84-004367] 11 p1708 N84-21135

CORE graphics users manual, revision 1
[DE84-004235] 11 p1708 N84-21136

Minimax solution of a nonlinear system of mixed equalities and inequalities
[DE84-003870] 11 p1709 N84-21137

Guidelines-software verification
[DE84-003899] 11 p1709 N84-21138

Automatic, self-nulling, spectral scanning ellipsometer: Software for the LSI-11 data acquisition system
[DE83-015007] 11 p1709 N84-21139

TOPAZ: A computer code for modeling heat transfer and fluid flow in arbitrary networks of pipes, flow branches, and vessels
[DE84-006275] 11 p1709 N84-21142

Optimal control and filter gains for the stationary continuous or discrete time LQG problem - A FORTRAN program
[AD-A137667] 11 p1713 N84-21168

Moving finite elements in 1-D: A review of the method and the coding experience
[DE84-004821] 11 p1716 N84-21192

Applications of operations research and management information system concepts to management of large software projects 11 p1718 N84-21204

Obtaining the zero-temperature equation of state from shock data
[DE84-006696] 11 p1728 N84-21272

Investigation of the applicability of a stored hydraulic energy propulsion system to a conventional bus
[PB84-115021] 11 p1753 N84-21446

Missile system: Simulation and validation 12 p1764 N84-21502

Design of single component airfoils using an inverse boundary element method
[REPT-83-A2-SER-A] 12 p1765 N84-21512

Inverse transonic airfoil design methods including boundary layer and viscous interaction effects
[NASA-CR-173449] 12 p1765 N84-21514

Centralized monitoring and control of environmental chambers by digital computer
[AD-A138278] 12 p1773 N84-21563

The development of computer routines to perform a comprehensive analysis of spectroscopic data from diatomic molecules
[AD-A138063] 12 p1781 N84-21680

MINTEQ: A computer program for calculating aqueous geochemical equilibria
[PB84-157148] 12 p1795 N84-21704

Analytical determination of resistance of aluminium alloys to deformation
[BLL-M-35476-(5828.4)] 12 p1796 N84-21714

MEXAMS (Metals exposure analysis modeling system)
[PB84-157155] 12 p1799 N84-21736

Protocol standards and implementation within the digital engineering laboratory computer network (DELNET) using the universal network interface device (UNID). Part 2
[AD-A138119] 12 p1806 N84-21777

Air-to-ground HF (High Frequency) propagation prediction model for fast multicircuit computation
[PB84-145961] 12 p1810 N84-21802

A compressible Navier-Stokes code for turbulent flow modeling
[NASA-TM-85899] 12 p1815 N84-21833

Regression analysis of fragment perforation data
[PML-1982-4] 12 p1821 N84-21873

Lubrication of engineering surfaces, phase 2
[DE84-006344] 12 p1822 N84-21878

State variable method of fault tree analysis
[DE84-006007] 12 p1824 N84-21891

Optimization of a stiffened plate
[IWECO-5071303-82-1] 12 p1827 N84-21911

Characterization of surface reflectance variation effects on remote sensing 12 p1832 N84-21944

Multidimensional modeling of atmospheric effects and surface heterogeneities on remote sensing 12 p1833 N84-21945

Advanced cogeneration research study: Executive summary
[NASA-CR-173467] 12 p1841 N84-22005

Cogeneration computer model assessment: Advanced cogeneration research study
[NASA-CR-173453] 12 p1841 N84-22006

Simulation studies of proposed observing systems and their impact on numerical weather prediction 12 p1850 N84-22050

Design of a linear projector for use with the normal modes of the GLAS 4th order GCM 12 p1853 N84-22070

Computational aspects of the nonlinear normal mode initialization of the GLAS 4th order GCM 12 p1853 N84-22071

Application of augmented-Lagrangian methods in meteorology: Comparison of different conjugate-gradient codes for large-scale minimization 12 p1854 N84-22076

Horizontal energy propagation in a baroclinic atmosphere with meridional and zonal structure 12 p1857 N84-22096

Development and preliminary tests of a new long-wave radiation parameterization 12 p1857 N84-22097

A note on the temporal behavior of bucket hydrologies 12 p1858 N84-22103

Time dependent land and vegetation canopy temperatures 12 p1858 N84-22104

Global energy futures and CO2-induced climate change, appendices
[PB84-145903] 12 p1862 N84-22132

A user-oriented and computerized model for estimating vehicle ride quality
[NASA-TP-2299] 12 p1866 N84-22162

Interactive geometry modeling of space station conceptual designs 12 p1871 N84-22191

Application and enhancements of MOVIE.BYU 12 p1871 N84-22195

The triangle compare method of hidden-line elimination 12 p1873 N84-22205

An interactive modeling program for the generation of planar polygons for boundary type solids representations of wire frame models 12 p1874 N84-22210

Evaluation of 3-D graphics software: A case study 12 p1875 N84-22222

Using a commercial CAD system for simultaneous input to theoretical aerodynamic programs and wind-tunnel model construction 12 p1875 N84-22223

CPESIM II: A computer system simulation for computer performance evaluation use
[AD-A138116] 12 p1877 N84-22233

Effects of computer architecture on FFT (Fast Fourier Transform) algorithm performance
[AD-A138465] 12 p1878 N84-22237

COSMIC software catalog, 1984 edition
[NASA-CR-174576] 12 p1878 N84-22242

CDC to CRAY FORTRAN conversion manual
[NASA-CR-166574] 12 p1879 N84-22243

Self-teaching guide to Rand's text processor
[RAND/N-2056-RC-REV] 12 p1879 N84-22244

Observation model and parameter partials for the JPL VLBI parameter estimation software MASTERFIT-V1.0
[NASA-CR-173455] 12 p1879 N84-22245

FEED (Field exploitation of Elevation Data) software documentation
[AD-A137977] 12 p1879 N84-22246

Implementation and evaluation of a core graphics system on a VAX 11/780 computer with a UNIX operating system
[AD-A138406] 12 p1882 N84-22271

Software interoperability and reusability, volume 1
[AD-A138477] 12 p1883 N84-22276

Software interoperability and reusability. Volume 2: Guidebook for software quality measurement
[AD-A138478] 12 p1884 N84-22277

PICTURE: An interactive tool for creating visual aids. Reference manual, version 2.0
[DE84-007447] 12 p1884 N84-22279

Numerical modeling of D-mappings with applications to chemical kinetics
[NASA-TM-84332] 12 p1893 N84-22326

Variance reduction techniques with applications
[AD-A138074] 12 p1894 N84-22334

Step size control in ODE solvers
[DE84-006391] 12 p1895 N84-22345

Program for a constructive physics
[DE84-005425] 12 p1916 N84-22486

Description of the ACCESS data acquisition system
[DE84-005758] 12 p1919 N84-22506

Analysis of inviscid and viscous flows in cascades with an explicit multiple-grid algorithm
[NASA-TM-83836] 13 p1925 N84-22527

The design and operational development of self-streamlining 2-dimensional flexible walled test sections
[NASA-CR-172328] 13 p1926 N84-22534

ALESEP: A computer program for the analysis of airfoil leading edge separation bubbles
[NASA-CR-172310] 13 p1926 N84-22537

Three-dimensional nonequilibrium viscous shock-layer flows over complex reentry vehicles 13 p1927 N84-22543

Comparison between measured turbine stage performance and the predicted performance using quasi-3D flow and boundary layer analyses
[NASA-TM-83640] 13 p1932 N84-22564

Atmospheric turbulence simulation for Shuttle orbiter
[NASA-CR-171013] 13 p1938 N84-22602

Application of the CONTAM 3 computer model to the prediction of heating, forces, and contamination on a communications satellite 13 p1941 N84-22621

CONTAM 3 plus improved CONTAM 3 usability 13 p1941 N84-22622

Computerized static firing analysis techniques of solid propellant rocket motors 13 p1944 N84-22641

Three-dimensional, primitive-variable model for solid-fuel ramjet combustion 13 p1952 N84-22688

Microwave curing of composites 13 p1955 N84-22708

Computer controlled laser optoacoustic spectroscopy for trace gas analysis 13 p1955 N84-22710

Three-dimensional, primitive-variable model for solid-fuel ramjet combustion
[AD-A138756] 13 p1956 N84-22715

Estimation of local stress intensity in flanged thin-wall shell structures under heavy thermal load 13 p1972 N84-22799

Stressed-strained state of flanged shells under heavy thermal load beyond elastic limit 13 p1972 N84-22800

Balancing of flexible rotors with simultaneous precise determination of influencing factors 13 p1974 N84-22808

Software for explicitly probabilistic mathematics
[AD-P002881] 13 p1978 N84-22842

State-space structures for the realization of low roundoff noise digital filters 13 p1987 N84-22900

Parametric and nonparametric Fast Kalman echo cancellation 13 p1987 N84-22901

Non-destructive evaluation of composite materials using ultrasound
[NASA-CR-173416] 13 p1999 N84-22969

Nonlinear/transient rotor dynamics analysis 13 p2000 N84-22977

Linear dynamics of cables and chains 13 p2000 N84-22978

Method of initial functions for thick shells 13 p2003 N84-22996

Development of a 3-D microscale topography system
[AD-A138809] 13 p2006 N84-23013

Incorporation of remotely sensed soil moisture data into a hydrologic runoff model 13 p2007 N84-23017

An approach to control the evolution of software systems 13 p2025 N84-23127

On the generation and use of quantitative criteria for assessing software maintenance quality 13 p2025 N84-23128

A computer program for the evaluation of cubic splines
[BAE-BT-11729] 13 p2026 N84-23131

A general purpose guidance simulation program: Software definition
[BAE-BT-13122] 13 p2026 N84-23132

Proceedings of the Eighth Annual Software Engineering Workshop
[NASA-TM-85445] 13 p2026 N84-23137

Transformations of software design and code may lead to reduced errors 13 p2027 N84-23145

Cleanroom certification model 13 p2028 N84-23147

An approach to software baseline generation
13 p2028 N84-23149
Managers handbook for software development
[NASA-TM-85604] 13 p2028 N84-23150
Documentation for software maintenance
[AD-A139663] 13 p2028 N84-23152
Nonlinear least-squares fitting of first-order rate coefficients comparison between the Gauss-Seidel method and Swain's kore program
[AD-A139080] 13 p2029 N84-23157
The representation and synthesis of design specifications for distributed software systems
13 p2030 N84-23163
Computer methods for industrial automation and robotics 13 p2031 N84-23168
Acoustic environmental accuracy requirements for response determination
[NASA-CR-171003] 13 p2039 N84-23234
Office automation in the acquisition environment
[AD-P002747] 13 p2049 N84-23294
A cost based acquisition planning model utilizing expert system concepts
[AD-P002783] 13 p2055 N84-23330
Computer Generated Acquisition Document System (CGADS)
[AD-P002784] 13 p2055 N84-23331
Employment changes resulting from the award of contracts in labor surplus areas
[AD-P002834] 13 p2063 N84-23379
Computer developments at Institute of Automation and Electrometry described 13 p2065 N84-23390
USSR report: Science and technology policy
[JPRS-UST-84-007] 13 p2065 N84-23391
Martian paleoclimate 13 p2072 N84-23427
MM-wavelength measurements of CO in the atmosphere of Mars and SO2 in the atmosphere of Venus
13 p2072 N84-23429
Characterization of surficial geologic units on Venus from Pioneer Venus radar data: A progress report
13 p2076 N84-23454
Further development of XTRAN3S computer program
[NASA-CR-172335] 14 p2101 N84-23608
A model for reaction rates in turbulent reacting flows
[NASA-TM-85746] 14 p2110 N84-23650
Satellite orbit theory for a small computer
[AD-A139406] 14 p2112 N84-23660
Engineering calculations for communications satellite systems planning
[NASA-CR-173532] 14 p2113 N84-23662
Analysis and calculation of macrosegregation in a casting ingot, exhibits C and E
[NASA-CR-171030] 14 p2127 N84-23752
Computer applications to geotechnical engineering
[AD-A139271] 14 p2134 N84-23789
New developments in science, technology described. Specialized GEO-20 minicomputer system
14 p2136 N84-23803
Millimeter wave attenuation in moist air: Laboratory measurements and analysis
[AD-A139502] 14 p2140 N84-23832
A model of radar propagation and detection
[AD-A139531] 14 p2141 N84-23834
Synthetic voice: Power system enunciation speech synthesis system
[PB84-151646] 14 p2141 N84-23838
Users' manual for computer program for three-dimensional analysis of coupler-cavity traveling wave tubes
[NASA-CR-168269] 14 p2141 N84-23841
TLINES: A computer program for circuits of transmission lines
[AD-A139596] 14 p2142 N84-23844
Some difficulties developing a large-scale research grade CAD program for a production environment
[DE84-005549] 14 p2142 N84-23845
Finite element model for nonaxisymmetric structure with rate dependent yield conditions
[AD-A139530] 14 p2158 N84-23930
Active ionospheric generation on ELF/VLF waves
[AD-A139317] 14 p2176 N84-24034
BETA: A program for calculating and archiving backscattering profiles taken with the NOAA National Oceanic and Atmospheric Administration) coherent lidar system
[PB84-150168] 14 p2177 N84-24040
MDR-processing manually digitized observations
[PB84-161462] 14 p2181 N84-24070
Profs' Doppler radar data processing system. Part 1: Design and implementation with application to NEXRAD algorithms
[PB84-165224] 14 p2182 N84-24073
Determination of cloud parameters for NEROS 2 from digital satellite data
[PB84-162601] 14 p2182 N84-24075
FINDIF: A software package to create synthetic seismograms by finite differences
[AD-A139904] 14 p2183 N84-24081
User's guide for COMBIMAN programs (Computerized Biomechanical Man-Model), version 6
[AD-A139139] 14 p2184 N84-24086
Air Force progress in implementing the phase 4 base level computer replacement program
[AD-A139378] 14 p2203 N84-24221
Microprocessor Database Management Systems (DBMS): Evaluation and comparison of three commercial DBMS
[AD-A139560] 14 p2203 N84-24222
Development of a microcomputer-based engineering design optimization software package
[AD-A139123] 14 p2205 N84-24232
The Extended Multi-Attribute Decision Analysis Model (EMADAM)
[AD-A139510] 14 p2206 N84-24237
OMEGA documentation
[DE84-007014] 14 p2206 N84-24239
Development of a proposed standard for the exchange of scientific microcomputer programs
[PB84-157940] 14 p2207 N84-24244
Tandem Computers, Incorporated, Tandem Nonstop 2, FORTRAN T92002E01
[PB84-157569] 14 p2207 N84-24246
Software tools survey
[PB84-145572] 14 p2208 N84-24256
Microprocessor based implementation of attitude and shape control of large space structures
14 p2245 N84-24482
The Department of Defense statement on the science and technology program by Dr. Edith W. Martin, Deputy Under Secretary of Defense for Research and Advanced Technology before the Subcommittee on Research and Development of the Committee on Armed Services of the United States House of Representatives, 98th Congress, second session
[AD-A139402] 14 p2246 N84-24488
Calculation of transonic flow in a linear cascade
[NASA-TM-83697] 15 p2255 N84-24539
Study of aerospace materials, coatings, adhesions and processes. Aircraft icing processes
[AD-A139743] 15 p2257 N84-24557
The influence of a moving suspension on the behaviour of modelled helicopter underslung loads
[BU-288] 15 p2260 N84-24573
Highly integrated digital engine control system on an F-15 airplane
[NASA-TM-86040] 15 p2262 N84-24587
A digital flight control system for an unstable aircraft
[BU-292] 15 p2264 N84-24594
A double gimballed momentum wheel for precision 3-axis attitude control 15 p2266 N84-24608
Verification and validation techniques applied to the reconfigurable block SD satellite software
15 p2269 N84-24626
Advanced combustor liner cooling concepts
15 p2292 N84-24756
Finite element analysis of axisymmetric forging
15 p2307 N84-24838
KINSYN and micro KINSYN: User-friendly computer systems for linkage design 15 p2312 N84-24873
A computer program for point-surface microwave continuum observation
[REPT-S-141] 15 p2320 N84-24925
Anomalous propagation and radar coverage through inhomogeneous atmospheres 15 p2326 N84-24967
Plasma and magnetospheric research
[NASA-CR-171031] 15 p2368 N84-25205
Principal facts, base station descriptions and plots for gravity stations on and near the Butte 1 degree x 2 degree quadrangle, Montana
[PB84-168103] 15 p2369 N84-25216
GUIDON: A computer-aided instructional program
[AD-A139999] 15 p2383 N84-25293
The SIFT code specification 15 p2387 N84-25316
The proof of the SIFT implementation
15 p2387 N84-25317
An algorithm for the estimation of limiting recognition range of image intensifier systems
[SRDE-7100] 15 p2389 N84-25333
A computer program for mapping regions in a geographic data base with raster structure
[FOA-C-20529-D6] 15 p2390 N84-25340
Computer program for treating and compiling ionospheric data
[FOA-C-30354-E] 15 p2391 N84-25346
Mathematical modelling of waveguiding techniques and electron transport, volume 2
[AD-A139604] 15 p2391 N84-25350
Software Cost Estimation Workshop report
[AD-A139840] 15 p2392 N84-25354
Automating the transformational development of software, volume 1
[AD-A139860] 15 p2392 N84-25355
Graphic design of program text
[DE84-008182] 15 p2393 N84-25360
Requirements for migration of NSSD code systems from LTSS to NLTSS
[DE84-009533] 15 p2395 N84-25368
Mathematical modelling of waveguiding techniques and electron transport, volume 1
[AD-A139603] 15 p2397 N84-25382
Numerical solution of algebraic matrix Riccati equations
[AD-A139929] 15 p2398 N84-25387
MOLAG: A method of lines adaptive grid interface for nonlinear partial differential equations
[DE84-009161] 15 p2399 N84-25396
Conversational eigenanalysis program for solving differential equations
[DE84-007560] 15 p2399 N84-25397
Nonvolatile, electrically erasable programmable ROM
[BMFT-FB-T-84-008] 15 p2412 N84-25482
CLARIFY: An on-line guide for revising technical prose
[N-2037-RC] 15 p2417 N84-25509
A geographic information system for forest management
[FOA-C-20531-D6] 15 p2418 N84-25516
Synthetic spectra of red giants
15 p2422 N84-25550
A computer program for calculating non-LTE model stellar atmospheres 15 p2423 N84-25554
Model stellar atmosphere and spectrum computations with minicomputer 15 p2423 N84-25555
Computer programs for processing of spectra
15 p2423 N84-25556
A hardware/software simulation for the video tracking system of the Kuiper Airborne Observatory telescope
[NASA-TM-85896] 15 p2424 N84-25562
An analytical method to predict efficiency of aircraft gearboxes
[NASA-TM-83716] 16 p2433 N84-25606
An investigation of aerodynamic characteristics of wings having vortex flow using different numerical codes
[NASA-CR-173596] 16 p2438 N84-25639
A theoretical analysis of the aerodynamic and structural forces associated with a ribbon parachute canopy in steady descent 16 p2443 N84-25671
Minimum operational performance standards for traffic alert and collision avoidance system (TCAS) airborne equipment, volume 2
[RTCA/DO-185-VOL-2] 16 p2445 N84-25686
Emulation of a voice interactive Doppler navigation set
[AD-A140204] 16 p2446 N84-25687
Direct simulations of chemically reacting turbulent mixing layers
[NASA-CR-174840] 16 p2450 N84-25710
On modeling dilution jet flowfields
[NASA-TM-83708] 16 p2450 N84-25713
Computer program to simulate digital computer based longitudinal flight control laws in a high performance aircraft
[AD-A140143] 16 p2451 N84-25719
Aerodynamics of sounding rockets at supersonic speeds 16 p2455 N84-25743
Study of ERS-1 dynamic interaction. Volume 1: Theoretical notes
[ER-RP-A1-002-VOL-1] 16 p2456 N84-25747
Dynamic stress analysis of smooth and notched fiber composite flexural specimens
[NASA-TM-83694] 16 p2460 N84-25770
Intermediate access switch: A multiprocessor application
[AD-A140363] 16 p2485 N84-25935
Software quality assurance for ESA spacecraft and associated equipment
[ESA-PSS-01-21-ISSUE-1] 16 p2500 N84-26037
Software quality assurance plans
[ESA-PSS-01-101-ISSUE-1] 16 p2500 N84-26041
NERF: A computer program for the numerical evaluation of reliability functions-reliability modeling, numerical methods and program documentation
[AR-00-984] 16 p2500 N84-26048
An integrated software system for geometric correction of LANDSAT MSS imagery
[E84-10143] 16 p2507 N84-26091
The use of an image registration technique in the urban growth monitoring
[E84-10147] 16 p2508 N84-26095
Hydrologic simulation program. FORTRAN: Development, maintenance and application
[PB84-168418] 16 p2511 N84-26114
Computer program for studying turbulent convection in buildings 16 p2517 N84-26155
DOE-2, BDL summary, version 2.1B
[LBL-8688-REV-3] 16 p2519 N84-26170

DOE-2, supplement, version 2.1B
[LBL-8706-REV-3-SUPPL] 16 p2519 N84-26171
Models of the ionospheric environment
[AD-P002121] 16 p2524 N84-26207
Polar code development
[AD-P002122] 16 p2524 N84-26208
High voltage solar array models and Shuttle tile charging
[AD-P002123] 16 p2525 N84-26209
Requirements for validating system models
[AD-P002128] 16 p2525 N84-26214
The development of a bidirectional multi-speed impact model of the adult human thorax
16 p2535 N84-26273
A software package for administering and monitoring the Environmental Symptoms Questionnaire (ESQ-3)
[AD-A140288] 16 p2538 N84-26293
The VERRUN and VERNAL software systems for steady-state visual evoked response experimentation
[NASA-CR-172311] 16 p2539 N84-26296
Optimal design of a storage system with constant or linear release rate
[INPE-3125-PRE/516] 16 p2541 N84-26311
Speeding up the halp hydrodynamic code
[MRL-R-925] 16 p2543 N84-26321
Measures and metrics for software development
[NASA-TM-85605] 16 p2543 N84-26323
Construction of engineering drawings using a personal computer 16 p2544 N84-26329
Tools to aid in improving software quality: Application to a structural editor
[ENST-E-83013] 16 p2544 N84-26331
Simulation of linear multivariable systems with piecewise continuous input functions and with various options for graphic representation of the results
[ESA-TT-749] 16 p2544 N84-26333
Guide to available mathematical software
[PB84-171305] 16 p2545 N84-26337
Modification of the eta-invariant code for application of a modular grid network
[AD-A135817] 16 p2547 N84-26347
Analytical solution of 1st and 2nd ordinary differential equations using the REDUCE 2 algebra manipulation program
[NASA-TM-77446] 16 p2548 N84-26351
Modification to shock fitting program
[NASA-TM-86097] 16 p2548 N84-26353
On vector calculation of mechanic flow computer programs 16 p2549 N84-26358
Bounds on network reliability
16 p2552 N84-26371
Advanced laser stratospheric monitoring systems analyses
[NASA-CR-172348] 16 p2552 N84-26373
Mathematical modeling of a continuum. Related modal analysis. Volume 1: Problem analysis
[ESA-CR(P)-1862-VOL-1] 16 p2552 N84-26376
CSTS: The software test system for the TORNADO auto pilot
[MBB-FE-325/S/PUB/118] 16 p2562 N84-26436
A computer algorithm for correcting spelling and typographical errors in subject headings
16 p2566 N84-26463
Final network: Objectives, scopes, benefits
[MBB-UR-670-83-O] 16 p2567 N84-26469
Validation of the MAGNA (Materially and Geometrically Nonlinear Analysis) computer program for nonlinear finite element analysis of aircraft transparency bird impact
[AD-P003229] 17 p2596 N84-26642
MAGNA (Materially and Geometrically Nonlinear Analysis) computer simulation of bird impact on the F-15 aircraft canopy
[AD-P003230] 17 p2597 N84-26643
Status of new aerothermodynamic analysis tool for high-temperature resistant transparencies
[AD-P003236] 17 p2598 N84-26649
Transonic aeroelastic stability and response of conventional and supercritical airfoils including active controls 17 p2598 N84-26655
Development of a thermal and structural model for a NASTRAN finite-element analysis of a hypersonic wing test structure 17 p2599 N84-26656
Calculation of transonic potential flow past wing-tail-fuselage configurations using the multigrid method 17 p2599 N84-26657
Advanced prediction technique for the low speed aerodynamics of V/STOL aircraft. Volume 1: Technical discussion
[NASA-CR-166442-VOL-1] 17 p2600 N84-26662
Advanced prediction technique for the low speed aerodynamics of V/STOL aircraft. Volume 2: User's manual
[NASA-CR-166442-VOL-2] 17 p2600 N84-26663
Calculation of vertical and ramp-assisted takeoffs for supersonic cruise fighters
[NASA-TM-85816] 17 p2600 N84-26668
ICAN: Integrated composites analyzer
[NASA-TM-83700] 17 p2618 N84-26755
Specialized common carriers: Long distance alternatives for military installations
[AD-A140596] 17 p2653 N84-26967
Discrimination against interfering signals at the Poker Flat MST radar 17 p2685 N84-27097
Pulse stuttering as a remedy for aliased ground backscatter 17 p2685 N84-27098
Decoding: Software implementations
17 p2694 N84-27161
Development of Great Lakes algorithms for the Nimbus-G coastal zone color scanner
[NASA-CR-173511] 17 p2711 N84-27258
Airfield Noise Evaluation Program (ANEP)
[VTH-LR-370] 17 p2725 N84-27342
Upset susceptibility study employing circuit analysis and digital simulation
[NASA-TM-85822] 17 p2733 N84-27374
A model of human problem solving in dynamic environments
[AD-A140862] 17 p2748 N84-27446
Care 3: Hands-on demonstration and tutorial
[NASA-TM-85811] 17 p2749 N84-27448
A high performance bulk memory system
[AD-A140780] 17 p2749 N84-27451
BCH codes for large IC random-access memory systems
[NASA-CR-166549] 17 p2751 N84-27460
STABCAR: A program for finding characteristic root systems having transcendental stability matrices
[NASA-TP-2165] 17 p2751 N84-27461
A static analyzer of FORTRAN programs
[INPE-3016-TDL/155] 17 p2752 N84-27465
Bringing together various programs and data packets in the ZX81/TS1000/TK82C/CP200 memory
[INPE-3013-PRE/456] 17 p2752 N84-27466
HP-41C programs and instructions for probability and statistics
[AD-A140573] 17 p2752 N84-27468
Dynamic module replacement in a distributed programming system
[AD-A140619] 17 p2752 N84-27469
PROJMNG FORTRAN: An interactive computer program for use with the defense management simulation exercise
[AD-A140709] 17 p2753 N84-27472
Interactive risk analysis and development of standardized factors
[AD-A140758] 17 p2753 N84-27473
Comparing software development methodologies for Ada (trade name): A study plan
[PB84-178029] 17 p2755 N84-27491
The explanation game
[AD-A140681] 17 p2757 N84-27500
MHD stability of the spheromak
17 p2766 N84-27563
Optical constant determination of thin films condensed on transmitting and reflecting substrates
[AD-A140845] 17 p2768 N84-27578
Irradiance from stars based on blackbody theory
[NASA-TM-82582] 17 p2775 N84-27617
A hybrid N-body/Fokker-Planck stellar dynamical code with application to late core collapse in globular clusters
17 p2775 N84-27620
XSECT: A computer code for generating fuselage cross sections - user's manual
[NASA-TM-83218] 18 p2788 N84-27696
PAN AIR: A computer program for predicting subsonic or supersonic linear potential flows about arbitrary configurations using a higher order panel method. Volume 1: Theory document (version 1.1)
[NASA-CR-3251] 18 p2788 N84-27697
Interference problems for nongeostationary satellites
[NASA-CR-173717] 18 p2802 N84-27780
Progressive fracture of fiber composites
[NASA-TM-83701] 18 p2809 N84-27831
Computer analysis of effects of altering jet fuel properties on refinery costs and yields
[NASA-CR-174642] 18 p2820 N84-27906
Digital phase meter 18 p2826 N84-27941
Effects of spacecraft reflections on RF interferometer position location accuracy
[NASA-CR-175244] 18 p2828 N84-27955
Performance of the Lester battery charger in electric vehicles
[NASA-CR-173726] 18 p2833 N84-27962
COSAL: A black-box compressible stability analysis code for transition prediction in three-dimensional boundary layers
[NASA-CR-165825] 18 p2836 N84-28002
Radar data smoothing filter study
[NASA-CR-168347] 18 p2844 N84-28059
An investigation of the transient thermal analysis of spur gears
[NASA-TM-83724] 18 p2849 N84-28068
VIBRA: An interactive computer program for steady-state vibration response analysis of linear damped structures
[NASA-TM-85789] 18 p2852 N84-28112
User's manual for SAC-3: A 3-dimensional nonlinear, time dependent soil analysis code using the bounding surface plasticity model
[AD-A137782] 18 p2853 N84-28114
Solution of direct three-dimensional problems in gravimetry and magnetometry with arbitrary continuous laws of density and magnetization distribution
18 p2861 N84-28169
CONC/11: A computer program for calculating the performance of dish-type solar thermal collectors and power systems
[NASA-CR-173735] 18 p2869 N84-28212
Special pyrheliometer shroud development
18 p2875 N84-28255
A description of two methods for calculation of low frequency wind turbine noise, including applications for the Swedish prototype Wind Energy Conversion System (WECS) Maglarp
[FFA-TN-1983-31] 18 p2876 N84-28262
An algorithm to compute the geoid surface
[IOS-168] 18 p2881 N84-28290
Current and future graphics requirements for LaRC and proposed future graphics system
[NASA-TM-85726] 18 p2917 N84-28495
Robotron digitalization unit 18 p2919 N84-28511
Elliptical orbit performance computer program
[NASA-CR-165832] 18 p2920 N84-28515
NEMAR plotting computer program
[NASA-CR-165831] 18 p2920 N84-28516
An implementation of the distributed programming structural synthesis system (PROSSS)
[NASA-TM-83253] 18 p2920 N84-28518
Implementation and performance of algorithms on a vector calculator
[SNIAS-832-111-104] 18 p2920 N84-28519
Development of a computer aided design package for control system design and analysis for use on a personal computer
[AD-A138065] 18 p2920 N84-28520
A three-dimensional transonic, potential flow computer program, its conversion to IBM FORTRAN and utilization
[AD-A140936] 18 p2921 N84-28521
Utilization of AC and DC converters in the design and use of a system of acquisition retrieval of analogic data
18 p2944 N84-28669
Pattern recognition for Space Applications Center director's discretionary fund
[NASA-TM-82586] 18 p2951 N84-28710
Aircraft Spare Stockage Methodology (aircraft spares) study
[AD-A142259] 19 p2955 N84-28730
Study of transonic flow over swept wings
[NASA-CR-173799] 19 p2958 N84-28734
PAN AIR summary document (version 1.0)
[NASA-CR-3250] 19 p2957 N84-28741
Three-dimensional transonic potential flow about complex 3-dimensional configurations
[NASA-CR-3814] 19 p2958 N84-28749
Interactive flight control system analysis program
[NASA-CR-172352] 19 p2968 N84-28807
Criteria for efficiency of experiments in remote sensing
19 p2978 N84-28876
An information-theoretic approach to target estimation of a laser radar tracking system
[AD-A142247] 19 p3008 N84-29067
User's guide to the NOZL3D and NOZLIC computer programs
[NASA-CR-159173] 19 p3020 N84-29150
A computer program for predicting nonlinear uniaxial material responses using viscoplastic models
[NASA-TM-83675] 19 p3034 N84-29247
Elastic-plastic fracture toughness testing methods
[AD-A142033] 19 p3036 N84-29259
Programming for energy monitoring/display system in multicolor lidar system research
[NASA-CR-165875] 19 p3073 N84-29498
Production version of the extended NASA-Langley vortex lattice FORTRAN computer program. Volume 2: Source code
[NASA-TM-83304] 19 p3073 N84-29500
Moments of inclination error distribution computer program
[NASA-CR-165824] 19 p3073 N84-29501
A new minimax algorithm
[NASA-CR-172382] 19 p3074 N84-29503
Specification and transformation: Automated implementation
[AD-A141064] 19 p3074 N84-29505
A comparative study of linear array synthesis technique using a personal computer
[AD-A141444] 19 p3076 N84-29515

A study of the application of software metrics to COBOL
[AD-A141467] 19 p3076 N84-29516
LCAP2 (Linear Control Analysis Program). Volume 1: Batch LCAP2 user's guide
[AD-A141486] 19 p3076 N84-29517
Program PREGA pivotal regression analysis of gamma-ray spectra from NaI(T1) detectors for the ND6620 computer
[AD-A141539] 19 p3077 N84-29520
Microcomputer network for Computerized Adaptive Testing (CAT): Program listing. Supplement
[AD-A141569] 19 p3077 N84-29521
Analysis of interactive image cleansing via RASTER-processing techniques
[AD-A141772] 19 p3078 N84-29527
Error in CALSPAN 3-dimensional crash vehicle simulation computer program for the case of massless segments
[AD-A141783] 19 p3078 N84-29528
Purdue plane structures analyzer 2: A computerized wood engineering system, 1983 version
[AD-A142042] 19 p3078 N84-29533
Morphological skeleton representation and coding of binary images
[AD-A142250] 19 p3079 N84-29536
TVD finite difference schemes and artificial viscosity
[NASA-CR-172373] 19 p3082 N84-29559
The approximate solution of a simple constrained search path moving target problem using moving horizon policies
[AD-A142164] 19 p3089 N84-29612
Topics in large sparse nonlinear optimization
[DE84-008933] 19 p3090 N84-29620
The semi-Markov unreliability range evaluator program
[NASA-TM-86261] 19 p3093 N84-29640
Rotorcraft noise prediction 19 p3098 N84-29677
MINDO/3 and MNDO calculations for nitro compounds
[AD-A141727] 19 p3101 N84-29698
PURDU-WINCOF: A computer code for establishing the performance of a fan-compressor unit with water ingestion
[NASA-CR-168005] 20 p3130 N84-29875
Recent applications of the CONTAM 3 computer model to spacecraft propulsion systems
20 p3137 N84-29916
Spectrum/orbit utilization program for geostationary satellites
[NASA-TM-83759] 20 p3172 N84-30146
General-purpose RFQ design program
[DE84-011327] 20 p3175 N84-30165
INFIL1D: A quasi-analytical model for simulating one-dimensional, constant flux infiltration
[DE84-008905] 20 p3187 N84-30250
A data acquisition and real-time display system for testing a jet engine compressor
[AD-A142686] 20 p3197 N84-30301
Geodyn systems development
20 p3221 N84-30467
The ERODYN and QRPIG computer programs
20 p3221 N84-30468
Software research for computer aided cartography at the Berlin Technical University 20 p3226 N84-30503
MULAP4: A multi-linear analysis program for ground motion studies of horizontally layered systems
[PB84-182815] 20 p3243 N84-30591
Climatological Summary Programs F6 and CLIMAT Zones
[PB84-185941] 20 p3246 N84-30603
Automated analysis of upper air soundings to specify precipitation type
[PB84-174325] 20 p3248 N84-30616
Documentation of wave-height and tidal analysis programs for automated data acquisition and control systems
[PB84-174333] 20 p3248 N84-30617
Guidelines for running the thermal computational model of the eye
[AD-A142679] 20 p3251 N84-30634
A user-oriented laboratory data entry computer system designed to reduce errors
[AD-A142550] 20 p3260 N84-30688
Verification of asynchronous transmissions
[DE84-011901] 20 p3267 N84-30730
Computer science and technology: Introduction to software packages
[PB84-189885] 20 p3268 N84-30738
Improvements to software maintenance methods in real time embedded aviation flight systems
[NBS-SP-500-114] 20 p3268 N84-30740
Configuration management with the Ada (trademark) language
[AD-A141949] 20 p3269 N84-30742
Ada (Registered trademark) training curriculum. Software engineering for managers. M101: Teachers exercise guide
[AD-P003416] 20 p3269 N84-30748
Ada (Registered trademark) training curriculum. Software engineering for managers. M101: Teachers guide
[AD-A142429] 20 p3272 N84-30767
Ada (registered trademark) training curriculum. Ada (registered trademark) for software managers, L201. Teachers' guide: Volume 1
[AD-A142430] 20 p3272 N84-30768
Ada (registered trademark) training curriculum. Ada (registered trademark) for software managers, L201. Teachers guide: Volume 2
[AD-A142431] 20 p3272 N84-30769
Ada (Registered trademark) training curriculum. Software engineering for managers. M101: Teachers guide
[AD-A142432] 20 p3272 N84-30770
Proton-induced single event upsets in 71 Earth-satellite environments
[AD-A142435] 20 p3272 N84-30771
Modifications to iterative recursion unfolding algorithms and computer codes to find more appropriate neutron spectra
[AD-A142475] 20 p3273 N84-30775
Quality Assurance (QA) procedures for computer software in department 1510
[DE84-012131] 20 p3273 N84-30778
SLR-PLUS version 1.0 reference manual
[DE84-009180] 20 p3274 N84-30781
SLATEC mathematical subprogram library, version 2.0
[DE84-010750] 20 p3274 N84-30782
WC user's guide
[DE84-009242] 20 p3274 N84-30784
Software quality assurance programs: Key elements of concern in selected commercial approaches
[DE84-009486] 20 p3274 N84-30785
Guide to graphics at ANL, revised
[DE84-013189] 20 p3274 N84-30786
Current research in parallel microprocessing systems at Los Alamos
[DE84-011342] 20 p3277 N84-30804
Intelligent optical design program
[DE84-010071] 20 p3279 N84-30813
Automated planning for intelligent machines in energy-related applications
[DE84-011666] 20 p3279 N84-30815
GRAPH 2: A digitizing and graph plotting program
[DE84-010747] 20 p3282 N84-30834
Linear systems analysis program: Programmer's manual, version 2.2 (VAX/VMS)
[DE84-010953] 20 p3282 N84-30835
Measurement techniques for high-power semiconductor materials and devices
[DE84-010425] 20 p3309 N84-31016
A system for policy analysis in manpower planning. Part 2: Design of the dialogue component
[AD-B082961] 20 p3313 N84-31043
Unsteady transonic aerodynamic and aeroelastic calculations about airfoils and wings
[NASA-TM-85986] 21 p3324 N84-31092
Comparison of the full potential and Euler formulations for computing transonic airfoil flows
[NASA-TM-85983] 21 p3324 N84-31094
Calculation of the 3-D viscous flow at the endwall leading edge region of an axial annular turbine cascade
[NASA-CR-168275] 21 p3325 N84-31095
A route generator concept for aircraft onboard fault monitoring
[NASA-TM-86264] 21 p3326 N84-31104
Software control and system configuration management: A systems-wide approach
[NASA-TM-85908] 21 p3328 N84-31112
Extensions and modifications to the ARL point-performance program
[AD-A142078] 21 p3328 N84-31113
The NEBULA and MCF (Military Computer Family) standardization programs
[AD-P003531] 21 p3331 N84-31135
Transportability of NEBULA software
[AD-P003533] 21 p3331 N84-31137
Standard avionics software: The future strategy for cost-effective avionics
[AD-P003582] 21 p3339 N84-31187
LANTIRN (Low Altitude Navigation and Targeting Infrared System for Night) - tommorrow's software development today
[AD-P003583] 21 p3339 N84-31188
Standardized computing system SDS80
[AD-P003585] 21 p3340 N84-31190
Tri-service Combined Altitude Radar Altimeter (CARA): The Army perspective
[AD-P003586] 21 p3340 N84-31191
Cost/schedule management for software development
[AD-P003591] 21 p3341 N84-31196
Software configuration management in a project environment
[AD-P003592] 21 p3341 N84-31197
Investigation and appreciation of optimal output feedback. Volume 1: A convergent algorithm for the stochastic infinite-time discrete optimal output feedback problem
[NASA-CR-3628] 21 p3344 N84-31217
Reliability analysis of an ultra-reliable fault tolerant control system
[NASA-CR-166594] 21 p3345 N84-31219
Application of finite element substructuring to composite micromechanics
[NASA-TM-83729] 21 p3356 N84-31288
The application of convolutional codes to continuous phase modulated communication channels
21 p3381 N84-31457
A comparative study of linear array synthesis technique using a personal computer
[AD-P003500] 21 p3363 N84-31468
The APL RCS (Radar Cross Section)/statistics code description, illustrations of output, and user's guide
[AD-A142929] 21 p3386 N84-31490
Computer programs for electromagnetic coupling between a conducting body and an aperture in an infinite conducting plane
[AD-A142975] 21 p3386 N84-31491
RFQ simulation code
[DE84-011385] 21 p3387 N84-31499
The behavior of very large short pulse antennas
[DE84-012372] 21 p3388 N84-31500
The new algorithm for symbolic network analysis
21 p3390 N84-31509
Survey and assessment of heat of reaction type chemical heat pumps
[DE84-010988] 21 p3401 N84-31576
Computer codes for fluid-structure interactions
[DE84-011068] 21 p3401 N84-31578
Differential scanning calorimeter data acquisiton system
[AD-A143118] 21 p3405 N84-31600
Economic application of assembly robots: Elements of sensor applications to programmable feeders
[PB84-193200] 21 p3415 N84-31656
Transient 3-dimensional thermoelasticity by the integral equations method
[CETIM-11-B-071] 21 p3424 N84-31717
Simplified approach to two-dimensional cyclic plasticity problems
[CETIM-11-B-110] 21 p3424 N84-31718
Empirical studies of upper atmospheric species
[NASA-CR-172437] 21 p3443 N84-31847
Three-dimensional computer model for the atmospheric general circulation experiment
[NASA-CR-171109] 21 p3446 N84-31863
Computer programs for summarizing climatic data stored in the National Fire Weather Data Library
[PB84-197011] 21 p3449 N84-31886
A computer calculation and display station for sloeh hurricane surge model data
[PB84-198753] 21 p3449 N84-31887
A device-dependent interface for interactive image display
[NASA-TM-86136] 21 p3461 N84-31949
NIMBUS 7 Earth Radiation Budget (ERB) matrix user's guide. Volume 2: Tape specifications
[NASA-CR-170620] 21 p3464 N84-31961
Implementation of INTERLISP on the VAX
[AD-A141707] 21 p3465 N84-31967
A software scheme for managing magnetic tape storage space
[AD-A142847] 21 p3465 N84-31969
User's guide to Sphere and Plate Interactive Display Routine (SPIDR)
[DE84-012855] 21 p3466 N84-31976
Investigation of criteria enabling a two-dimensional grid to evolve while minimizing errors
[CETIM-100080] 21 p3467 N84-31982
Guidelines for software production in developed countries
[PB84-202795] 21 p3467 N84-31986
The surface generation using weighted splines
[INPE-3160-PRE/534] 21 p3470 N84-31994
Smoothing on the frequency domain
[INPE-3182-PRE/547] 21 p3471 N84-31997
The nonlinear dynamics of spinning paraboloidal antennas 21 p3476 N84-32033
Physics of ion sputtering
[DE84-011664] 21 p3495 N84-32150
Mathematical model for a simplified Bridgman-Stockbarger crystal growing system
[NASA-CR-171108] 21 p3504 N84-32202
Logical optimization for database uniformization
[NASA-CR-173836] 21 p3518 N84-32262
An evaluation of the system 2000 data base management system for use in major item system mapping
[DE84-013130] 21 p3519 N84-32296

Investigation of the external flow analysis for density measurements at high altitude --- shuttle upper atmosphere mass spectrometer experiment
[NASA-CR-173881] 22 p3530 N84-32352
Simulation of transonic separated airfoil flow by finite difference viscous-inviscid interaction
[NASA-TM-85980] 22 p3531 N84-32358
Aerodynamic heating computations for projectiles. Volume 1: In-depth heat conduction modifications to the ABRES shape change code (BRLASCC)
[AD-A143252] 22 p3531 N84-32359
Aerodynamic heating computations for projectiles. Volume 3: BRL interactive plotting program (BRLINPLOT)
[AD-A143254] 22 p3532 N84-32361
Validation of an Active Gear, Flexible Aircraft Take-off and Landing analysis (AGFATL)
[NASA-TP-2353] 22 p3534 N84-32378
Analytical and experimental investigation of stator endwall countouring in a small axial-flow turbine
[NASA-TP-2309] 22 p3536 N84-32388
Software conversion history of the Flight Dynamics System (FDS)
[NASA-CR-175257] 22 p3539 N84-32404
GCKP84-general chemical kinetics code for gas-phase flow and batch processes including heat transfer effects
[NASA-TP-2320] 22 p3546 N84-32446
Submillimeter, millimeter, and microwave spectral line catalogue
[NASA-CR-173899] 22 p3546 N84-32448
Optimization of antenna structure design
22 p3572 N84-32624
NASTRAN structural model for the large 64-meter antenna pedestal. Part 3: Applications to hydrostatic bearing oil film
22 p3574 N84-32638
Ku-Band rendezvous radar performance computer simulation model
[NASA-CR-171804] 22 p3576 N84-32650
HF prediction using adiabatic invariant theory
[AD-A143239] 22 p3576 N84-32652
High frequency radar software reference manual for product one
[PB84-194885] 22 p3578 N84-32665
High efficiency heat pump using ground heat source
[DE84-006385] 22 p3594 N84-32761
Research in computer science
[NASA-CR-173857] 22 p3637 N84-33056
Microcomputers in transportation: Software and source book
[PB84-195155] 22 p3638 N84-33067
Search command for character strings and words in computer files on CMS (Conversational Monitor System)
[PB84-201243] 22 p3639 N84-33068
Computer-based transmission monitor and control system
[PB84-202068] 22 p3639 N84-33069
Research on output feedback control of systems with ill-conditioned dynamics
[NASA-CR-173921] 22 p3639 N84-33071
Flight systems raster graphics software reference manual
[ARL-SYS-TM-72] 22 p3639 N84-33072
ADA (trademark) training curriculum. Basic ADA programming I202 teacher's guide, volume 1
[AD-A143584] 22 p3641 N84-33083
ADA (trademark) training curriculum. Basic ADA programming I202 teacher's guide, volume 2
[AD-A143585] 22 p3641 N84-33084
Normal modes of the NCAR (National Center for Atmospheric Research) Community Forecast Model (CFM)
[PB84-191220] 22 p3642 N84-33094
Theoretical issues in the design and verification of distributed systems 22 p3643 N84-33096
Monte Carlo estimation under different distributions using the same simulation
[DE84-012438] 22 p3649 N84-33136
A study of the extent of automation in small college libraries and relationships of attitudes of library directors toward it 22 p3670 N84-33260
Effective organizational solutions for implementation of DBMS software packages 22 p3671 N84-33268
Status tracking system for reports
22 p3672 N84-33276
Parabolized Navier-Stokes solutions for hypersonicflow fields 23 p3688 N84-33373
An experimental and theoretical investigation of deposition patterns from an agricultural airplane
[NASA-TP-2348] 23 p3689 N84-33379
Trends in computational capabilities for fluid dynamics
[NASA-TM-86012] 23 p3689 N84-33383
TRANSEP: A program for high lift separated flow about airfoils
[NASA-CR-3376] 23 p3690 N84-33386
PAN AIR: A computer program for predicting subsonic or supersonic linear potential flows about arbitrary configurations using a higher order panel method. Volume 4: Maintenance document (version 1.1)
[NASA-CR-3254] 23 p3690 N84-33388
Low thrust orbit optimization for interplanetary missions, volume 1
[ESA-CR(P)-1904-VOL-1] 23 p3697 N84-33430
Low thrust orbit optimization for interplanetary missions, volume 2
[ESA-CR(P)-1904-VOL-2] 23 p3697 N84-33431
Ignition and flame propagation in sprays
[AD-A143773] 23 p3713 N84-33538
Detonation parameters for Australian high-explosives composition
[AD-A143855] 23 p3726 N84-33609
Theoretical analysis of microwave propagation
[AD-A143762] 23 p3731 N84-33647
A fast accurate algorithm for solving the steady 3-dimensional equations for inviscid rotational flow
23 p3746 N84-33745
Improved techniques for data acquisition and analysis on X-ray diffraction equipment
[Y-2282] 23 p3750 N84-33774
Manual of phosphoric acid fuel cell power plant cost model and computer program
[NASA-CR-174720] 23 p3790 N84-34037
PCMSOL-1: A computer simulation code for a direct gain passive solar structure. Part 2: PCMSOL-1 users guide
[ORNL/CSD-127/P-2] 23 p3790 N84-34040
Name server design for distributed systems
[AD-A143634] 23 p3812 N84-34173
The microcode for the control processor of the ARO (array oriented processor) array processor
[AD-A143765] 23 p3813 N84-34175
Flexible disk data storage unit
[INPE-2982-RPE/451] 23 p3814 N84-34181
PROCAOC: A program for computation, analysis and optimization of circuits
[INPE-3135-PRE/526] 23 p3814 N84-34184
Project active and passive microwave devices with auxiliary computer
[INPE-3152-TDL/169] 23 p3814 N84-34185
BGRID: A block-structured grid generation code for wing sections
[NASA-CR-166317] 23 p3814 N84-34187
User's guide for an IBM PL/I implementation of the international standard organization DIS 8211 information processing-specification for a data descriptive file for information interchange
[ORNL/CSD-TM-207] 23 p3814 N84-34188
Methodology for software maintenance
[AD-A143763] 23 p3815 N84-34192
Software for a computer controlled laser Doppler velocimeter
[AD-A143786] 23 p3815 N84-34193
An assembly language program for calculating random decrement signatures
[AD-A143908] 23 p3815 N84-34195
Boolean operations in solid modelling: Boundary evaluation and merging algorithms
[TM-26] 23 p3818 N84-34207
A users guide to KLYSMA 2: A multifluid transport code
[AD-A143784] 23 p3828 N84-34278
On-line edit users manual
[AD-A144021] 23 p3835 N84-34328
Computer program to simulate the lateral-directional response of a high performance aircraft digital electronic flight control system
[AD-A144480] 24 p3856 N84-34447
Telemetry bandwidth selection for infrared surveillance sensors
[AD-A144251] 24 p3861 N84-34466
Fracture modes in notched angleplied composite laminates
[NASA-TM-83802] 24 p3878 N84-34576
Development of a design-oriented Navier-Stokes cascade analysis
[AD-A144594] 24 p3901 N84-34703
EURDYN: Computer programs for the nonlinear transient analysis of structures submitted to dynamic loading. EURDYN (release 3) users' manual
[DE84-700986] 24 p3912 N84-34777
LAMPS software 24 p3931 N84-34884
Contouring program for generation of sea surface temperature maps
[INPE-3260-RPE/464] 24 p3935 N84-34906
System for recording and input to computer of one-dimensional images of dim objects and high-speed processes 24 p3941 N84-34951
Software debugging devices for microprocessors
24 p3941 N84-34952
RECOZ data reduction and analysis: Programs and procedures
[NASA-TM-87365] 24 p3944 N84-34973
Interactive implementation of the optimal systems control design program (OPTSYSX) on the IBM 3033
[AD-A144159] 24 p3948 N84-35000
The SLxE program for the solution of nonlinear systems for elliptic differential equations --- fluid mechanics
[REPT-23/83] 24 p3953 N84-35033
A computer program designed for contour chart plotting 24 p3959 N84-35068

COMPUTER SIMULATION
U COMPUTERIZED SIMULATION

COMPUTER STORAGE DEVICES
NT ACCUMULATORS (COMPUTERS)
NT BUBBLE MEMORY DEVICES
NT BUFFER STORAGE
NT COMPUTER COMPATIBLE TAPES
NT CRYOGENIC COMPUTER STORAGE
NT FLIP-FLOPS
NT MAGNETIC CORES
NT MAGNETIC DISKS
NT MAGNETIC TAPES
NT OPTICAL DISKS
NT RANDOM ACCESS MEMORY
NT READ-ONLY MEMORY DEVICES
NT REGISTERS (COMPUTERS)
Fast multichannel analog storage system
[DE83-012711] 01 p0119 N84-10773
A data compressor system
[INPE-2847-PRE/389] 02 p0270 N84-11766
INTEL 432/670 Ada benchmark performance evaluation in the Multiprocessor/Multiprocess environment
[AD-A132774] 05 p0719 N84-14715
Memory intensive functional architecture for distributed computer control systems
[DE84-002579] 05 p0720 N84-14719
Recording and reproduction of microwave holograms using a scanning procedure and their subsequent optical processing
[NASA-TM-77349] 06 p0846 N84-15519
Two fundamental issues in multiprocessing: The dataflow solution
[AD-A134239] 07 p1052 N84-16813
The program complexity of searching a table
[AD-A135299] 08 p1240 N84-18104
A timing and memory sizing study for wavenumber analyzer
[AD-A135581] 09 p1318 N84-18611
Workshop on Magnetic Information Technology (MINT)
[PB84-125210] 09 p1319 N84-18619
Science analysis by knowledge stored in associative networks
[INPE-2784-PRE/350] 09 p1366 N84-18920
Transfer function bounds for partial-unit-memory convolutional codes based on reduced state diagram
10 p1474 N84-19628
Development of a non-volatile programmable digital to analog converter subsystem for PCM (Pulse-Code Modification) telemetry systems
[AD-A137878] 11 p1622 N84-20620
Processing system 12 p1835 N84-21958
MPP disk subsystem
[NASA-CR-175227] 15 p2388 N84-25325
Linear associative mappings
[DFVLR-FB-84-01] 15 p2396 N84-25375
Development of VLSI memories
[BMFT-FB-T-84-022] 16 p2560 N84-26423
Contributions to dynamics study of air-lubricated gas bearings at high compressibility numbers
17 p2674 N84-27039
Where and how variables are structured in the ZX81/TS1000/ TK82C/CP200 memory
[INPE-3014-PRE/457] 17 p2749 N84-27450
A high performance bulk memory system
[AD-A140780] 17 p2749 N84-27451
Investigation of fast initialization of spacecraft bubble memory systems
[NASA-TM-85832] 18 p2832 N84-27977
Crystal gazing. Part 2: Implications of advanced in digital data storage technology
18 p2842 N84-28049
Properties of ferrites important to their friction and wear behavior
[NASA-TM-83718] 19 p2997 N84-28994
A distributed memory management system for PASM
[AD-A141360] 19 p3072 N84-29487
CHART and SKETCH: An interactive computer graphics program
[AD-A141997] 20 p3269 N84-30744
Circuit engineering principles for construction of bipolar large-scale integrated circuit storage devices and very large-scale main memory 21 p3379 N84-31441
Princeton VLSI project
[AD-A142959] 21 p3391 N84-31521

DEC LSI-11/HP9895A software
[DE84-012412] 21 p3462 N84-31952
Selection of data from busses for test
[AD-D011160] 23 p3813 N84-34176
COMPUTER SYSTEMS DESIGN
An introduction to the AXIS test box
[RSRE-MEMO-3583] 03 p0418 N84-12729
Linked state machines
[DE83-4000123] 03 p0419 N84-12736
Design, development and use of the finite element machine
[NASA-CR-172250] 03 p0424 N84-12777
Symposium on Computers in Civil Engineering
[CSIR-S-267] 04 p0577 N84-13806
Integrated bid estimate systems for contractors
05 p0717 N84-14699
Methods for improving the user-computer interface
[AD-A132657] 05 p0719 N84-14713
Space-time algorithms: Semantics and Methodology
05 p0721 N84-14726
Software engineering — conferences
[ESA-SP-199] 05 p0721 N84-14729
Integrated Software Engineering Facilities (ISEF)
05 p0721 N84-14730
The Integrated Software Engineering Facilities (ISEF) software configuration management system
05 p0722 N84-14732
CONSTRUCT: A tool for programming in the large
05 p0722 N84-14733
Practical experience of engineering software production to a structured programming standard
05 p0723 N84-14744
ANSI Ada and the UK M-CHAPSE
05 p0725 N84-14760
Interface specifications for the SCR (A-7E) application data types module
[AD-A132717] 05 p0729 N84-14785
General purpose magnetic-measurement data-acquisition system
[DE84-001101] 05 p0759 N84-14982
Management information system for engineering
[DE84-001655] 05 p0760 N84-14984
Software testing of safety critical systems
06 p0774 N84-15073
Automating the testing of software
06 p0774 N84-15074
Numerical experiments with CONCHAS-SPRAY: Compression stroke of an external chamber diesel engine
[DE84-002321] 06 p0853 N84-15561
Mie code AGAUS 82
[AD-A133489] 06 p0918 N84-15964
Algebraic tools for system construction
[MC-IW-234/83] 07 p1053 N84-16820
Database transfers between several systems
[DE84-003841] 07 p1085 N84-17056
Parallel computation 08 p1208 N84-17875
Assessment of data handling configurations for onboard operating system definition (phase 1)
[ESA-CR(P)-1787] 09 p1273 N84-18314
Development INTERDATA 8/32 computer system
[NASA-CR-175425] 10 p1556 N84-20197
Interactive parallel processor for data analysis
[DE84-004311] 10 p1564 N84-20250
Approach to programming multiprocessing algorithms on the Denelcor HEP
[DE84-005440] 10 p1565 N84-20251
Operating system for a real-time multiprocessor propulsion system simulator
[NASA-TM-83605] 10 p1566 N84-20258
Job handling in a network of distributed processors
[EUT-82-E-131] 10 p1566 N84-20262
Human engineering guidelines for management information systems. Change 1
[AD-A137808] 11 p1703 N84-21104
Distributed processing tools definition. Volume 1: Hardware and software technologies for tightly-coupled distributed systems
[AD-A137686] 11 p1704 N84-21105
Distributed processing tools definition. Volume 2: Application of software engineering technology
[AD-A137687] 11 p1704 N84-21106
One solution to STAR-1100 in a dual machine environment
[DE83-017160] 11 p1704 N84-21109
Design of array processor software for nonlinear structural analysis
[AD-A137767] 11 p1706 N84-21124
Technical addendum to the study: ERS-1 Mission, Fucino Station. SAR processor based upon EMMA architecture
[ERI-171] 12 p1809 N84-21791
Cogeneration computer model assessment: Advanced cogeneration research study
[NASA-CR-173453] 12 p1841 N84-22006
Detailed design and implementation of a multiprogramming operating system for sixteen-bit microprocessors
[AD-A138078] 12 p1880 N84-22256
Detailed design and implementation of a multiprogramming operating system for sixteen-bit microprocessors
[AD-A138083] 12 p1880 N84-22257
A candidate programming language
[AD-A138433] 12 p1883 N84-22274
Rediflow multiprocessing
[DE84-003194] 12 p1884 N84-22282
Numeric keyboard layout and computer menu selection
[BAE-BT-11969] 13 p2023 N84-23116
The representation and synthesis of design specifications for distributed software systems
13 p2030 N84-23163
Computer and database location in designing distributed computer systems 13 p2066 N84-23399
Profs' Doppler radar data processing system. Part 1: Design and implementation with application to NEXRAD algorithms
[PB84-165224] 14 p2182 N84-24073
Distributed database control and allocation. Volume 1: Frameworks for understanding concurrency control and recovery algorithms
[AD-A138691] 14 p2203 N84-24223
Distributed database control and allocation. Volume 2: Performance analysis of concurrency control algorithms
[AD-A138692] 14 p2203 N84-24224
Distributed database control and allocation. Volume 3: Distributed database system designer's handbook
[AD-A138693] 14 p2203 N84-24225
Miniaturized Measurement and Testing (MMT) system — microprocessor system
[MBB-UA-767-83-O] 14 p2203 N84-24226
On mapping cube graphs on VLSI array and tree architectures
[AD-A139306] 14 p2205 N84-24234
The normal approximation and queue control for response times in a processor-shared computer system model
[AD-A139587] 14 p2210 N84-24263
Report of the Information Technology Workshop
[PB84-163203] 14 p2248 N84-24500
MPP disk subsystem
[NASA-CR-175227] 15 p2388 N84-25325
Compression and Decompression of Imaging Sensor Signals (CADISS): An image (de)compression system for deep space application
[NLR-MP-83028-U] 15 p2390 N84-25339
Special or general purpose end-to-end transport mechanisms in distributed systems: One view
[DE84-006297] 15 p2395 N84-25367
Query execution in the distributed RAP DBM systems
15 p2401 N84-25409
Modular strapdown guidance unit with embedded microprocessors 16 p2447 N84-25697
A problem in the optimal control of queueing workloads for the M/G/1 file
[INPE-3106-PRE/505] 16 p2546 N84-26339
Possibilities of using ICL: Distributed array processor
16 p2549 N84-26357
The impact of communicating through computers
17 p2750 N84-27457
Top-down design and the algebra of communicating processes
[CWI-CS-R8401] 17 p2756 N84-27495
PAN AIR: A computer program for predicting subsonic or supersonic linear potential flows about arbitrary configurations using a high order panel method. Volume 2: User's manual (version 1.1)
[NASA-CR-3252] 18 p2788 N84-27698
Fault tolerant architectures for integrated aircraft electronics systems, task 2
[NASA-CR-172282] 18 p2795 N84-27734
East Europe Report: Scientific affairs
[JPRS-ESA-84-004] 18 p2827 N84-27946
Microelectronic components development in seventh 5-year plan described 18 p2827 N84-27947
EMG 7177 programmable graphic calculator, control system 18 p2827 N84-27948
GD 80: Computer assisted device for engineers
18 p2827 N84-27949
The VAX/VMS device driver and user operation program for the Midwestern Astronomical Data Reduction and Analysis Facility PDS microdensitometer
18 p2841 N84-28036
GDR robotron office computers
18 p2918 N84-28502
VARS: Multilevel automated control system
18 p2918 N84-28507
ELORG permanent exhibition
18 p2919 N84-28508
Robotron remote processing systems
18 p2919 N84-28510
Robotron digitalization unit 18 p2919 N84-28511
The database management module of the SPLICE system
[AD-A132795] 18 p2945 N84-28671
HP-85/Mini-Ranger navigation system
[AD-A142131] 19 p2961 N84-28770
Development of Integrated Programs for Aerospace-vechicle Design (IPAD). IPAD user requirements: Implementation (first-level IPAD)
[NASA-CR-162713] 19 p2963 N84-28776
Organizing work with information flows in system for automated processing of data from remote sensing of the Earth for use in agriculture 19 p2977 N84-28873
Design study of floating point systolic VLSI chip
[AD-A141868] 19 p3013 N84-29102
A distributed memory management system for PASM
[AD-A141360] 19 p3072 N84-29487
Design methodology for back-end database machines in distributed environments
[AD-A142122] 19 p3072 N84-29491
Real-time applications in multiprocessor systems
[AD-A142130] 19 p3072 N84-29492
The C.mmp multiprocessor
[AD-A142132] 19 p3072 N84-29493
Programming for energy monitoring/display system in multicolor lidar system research
[NASA-CR-165875] 19 p3073 N84-29496
Digital systems design language. Design synthesis of digital systems
[NASA-CR-162032] 19 p3073 N84-29499
Software support for fully distributed/loosely coupled processing systems. Volume 2: Appendix-selected papers
[AD-A141501] 19 p3076 N84-29519
DOE workshop on computer-aided engineering: Abstracts
[DE84-001064] 19 p3079 N84-29538
The semi-Markov unreliability range evaluator program
[NASA-TM-86261] 19 p3093 N84-29640
The next generation in satellite flight control systems
19 p3119 N84-29822
Supercomputers: The next ten years. A user's view
[DE84-011072] 20 p3267 N84-30727
Logic machine architecture inference mechanisms: Layer 2 user reference manual release 2.0
[DE84-012115] 20 p3267 N84-30728
Augmenting computer networks
[NASA-CR-172399] 20 p3277 N84-30800
DBMS conversion case study
[DE84-011205] 20 p3315 N84-31054
Cronus, A distributed operating system: Functional definition and system concept
[AD-A142795] 21 p3462 N84-31950
Synthetic aperture radar simulation
[AD-P003474] 21 p3512 N84-32246
Real-time CGSI (Computer Generated Synthesized Imagery)-single pipeline processor
[AD-P003480] 21 p3512 N84-32247
A design automation database for computer aided design of computer systems 21 p3517 N84-32278
A non-first-normal-form relational database model
21 p3517 N84-32280
A physical database design methodology using the property of separability 21 p3517 N84-32281
The Record of Electrical and Communication Engineering Conversazione, volume 53, no. 1, Jul. 1984
[ISSN-0385-7719] 22 p3563 N84-32565
An automatic syntheses of hardware algorithm
22 p3563 N84-32568
The design and usage of the new data management features in NASTRAN 22 p3609 N84-32866
The design and performance of a parallel computer architecture for simulation 22 p3637 N84-33054
S-1 software development and maintenance
[DE84-013071] 22 p3642 N84-33091
Langley experience with ADABAS/NATURAL
22 p3671 N84-33272
Strip and load data 22 p3672 N84-33273
Development of a 60 cm photographic Zenith telescope, and construction of a prototype
[BMFT-FB-T-84-122] 23 p3826 N84-34283
The creation of a central database on a microcomputer network
[AD-A143875] 23 p3835 N84-34326
Planetary Data Workshop, part 2
[NASA-CP-2343-PT-2] 23 p3842 N84-34376
Planetary science analysis support system: Hardware report 23 p3843 N84-34382
Interactive digital signal processor
[NASA-TM-83997] 24 p3944 N84-34974
Pilot climate data system: User's guide for charts subsystem
[NASA-TM-86151] 24 p3945 N84-34975

Embedded system design with Ada as the system design language
[AD-A144232] 24 p3945 N84-34979
Ada training curriculum. Introduction to software engineering, M102: Teachers' guide
[AD-A144236] 24 p3945 N84-34980
Large scale software development project on the design of a computer network system 24 p3959 N84-35065
Design and implementation of a reentrant page editing processor 24 p3959 N84-35066
On extending functional capabilities of cellular-logic devices for database management 24 p3959 N84-35067
East European report: Science and technology
[JPRS-ESA-84-031] 24 p3960 N84-35071
EC 1027 computer system 24 p3960 N84-35075

COMPUTER SYSTEMS PERFORMANCE
Directly executed languages
[AD-A130704] 01 p0122 N84-10794
On-line monitoring guide for technical personnel
[AD-A131044] 01 p0159 N84-11047
An on-board control and supervision system for multiple space mission applications is considered
[INPE-2824-PRE/378] 02 p0208 N84-11354
An introduction to the AXIS test box
[RSRE-MEMO-3583] 03 p0418 N84-12729
A technical overview of the National Software Works
[AD-A132320] 04 p0580 N84-13827
Design of relational database benchmarks
[AD-A133651] 05 p0719 N84-14710
Performance analysis of loosely coupled computer systems 05 p0731 N84-14801
Computer Science and Technology: Proceedings of the 16th Meeting of the Computer Performance Evaluation Users Group (CPEUG)
[PB84-114529] 08 p1210 N84-17892
Modelling algorithm execution time on processor arrays
[NASA-CR-172289] 08 p1211 N84-17899
Improvement of the memory allocation algorithm for evaluating query language expressions in the relational database handler CANTOR
[FOA-C-20508-D8] 08 p1213 N84-17916
Empirical studies of program behaviour in virtual memory
[PB84-112267] 08 p1214 N84-17921
A comparison of the Cellular Logic Image Processor (CLIP) 4; Distributed Array Processor (DAP) and Massively Parallel Processor (MPP) processor-array implementations
[NLR-MP-82054-U] 09 p1366 N84-18917
Development and analysis of the Software Implemented Fault-Tolerance (SIFT) computer
[NASA-CR-172146] 09 p1371 N84-18953
Test methodology for the level two subsystem of an X25 procedure for data terminal equipment — packet switching, open systems interconnection
[FUB-3-1983] 10 p1483 N84-19694
The DFVLR main department for central data processing, 1976 - 1983
[NASA-TM-77314] 10 p1556 N84-20196
Operating system for a real-time multiprocessor propulsion system simulator
[NASA-TM-83605] 10 p1566 N84-20258
Markovian models of a transactional system supported by checkpointing and recovery strategies. Part 1: A model with state-dependent parameters
[EUT-82-E-128-PT-1] 10 p1566 N84-20260
Markovian models of a transactional system supported by checkpointing and recovery strategies. Part 2: AA model with a specified number of transactions between checkpoints
[EUT-82-E-129-PT-2] 10 p1566 N84-20261
A single server queue with mixed types of interruptions: Application to the modeling of checkpointing and recovery in a transactional system
[EUT-83-E-138] 10 p1574 N84-20315
The DARPA Internet project: M/A-COM LINKABIT eastern operation
[AD-A137661] 11 p1711 N84-21155
Quantitative evaluation of 3 DBMS: ORACLE, SEED AND INGRES 11 p1748 N84-21410
CPESIM II: A computer system simulation for computer performance evaluation use
[AD-A138116] 12 p1877 N84-22233
CDC to CRAY FORTRAN conversion manual
[NASA-CR-166574] 12 p1879 N84-22243
An approach to control the evolution of software systems 13 p2025 N84-23127
West Europe report: Science and technology
[JPRS-WST-84-011] 13 p2038 N84-23224
French ONERA acquires U.S. supercomputer for research 13 p2038 N84-23226
Computer and database location in designing distributed computer systems 13 p2066 N84-23399
Order-preserving dynamic hashing schemes for associative searching in data base systems 13 p2066 N84-23400
Profs' Doppler radar data processing system. Part 1: Design and implementation with application to NEXRAD algorithms
[PB84-165224] 14 p2182 N84-24073
Formal specification and verification of distributed system
[AD-A139305] 14 p2203 N84-24220
Distributed database control and allocation. Volume 2: Performance analysis of concurrency control algorithms
[AD-A138892] 14 p2203 N84-24224
IBM Corporation, IBM 5360 model B24, SYSTEM/36 BASIC Release 1 (5727-BL1)
[PB84-157171] 14 p2208 N84-24255
The SIFT code specification 15 p2387 N84-25316
MPP disk subsystem
[NASA-CR-175227] 15 p2388 N84-25325
A guide to macro and micro computer performance evaluation
[AD-A140127] 15 p2389 N84-25329
Special or general purpose end-to-end transport mechanisms in distributed systems: One view
[DE84-006297] 15 p2395 N84-25367
Assessment of techniques for evaluating computer systems for Federal Agency procurements
[PB84-176494] 17 p2756 N84-27496
Design and performance of a distributed relational data base system
[AD-A142177] 19 p3073 N84-29495
The next generation in satellite flight control systems 19 p3119 N84-29822
Supercomputers: The next ten years. A user's view
[DE84-011072] 20 p3257 N84-30727
DBMS conversion case study
[DE84-011205] 20 p3315 N84-31054
Modern control techniques for accelerators
[DE84-012521] 21 p3494 N84-32140
Strategies of design, development and activation of the Nova control system
[DE84-013075] 22 p3600 N84-32801
COSMIC/NASTRAN on the Cray computer systems 22 p3609 N84-32868
Langley experience with ADABAS/NATURAL 22 p3671 N84-33272
Validation of a fault-tolerant clock synchronization system
[NASA-TP-2346] 23 p3816 N84-34198
Interactive digital signal processor
[NASA-TM-83997] 24 p3944 N84-34974
Pilot climate data system: User's guide for charts subsystem
[NASA-TM-86151] 24 p3945 N84-34975

COMPUTER SYSTEMS PROGRAMS
NT ASSEMBLER ROUTINES
NT INPUT/OUTPUT ROUTINES
NT OPERATING SYSTEMS (COMPUTERS)
NT SUBROUTINE LIBRARIES (COMPUTERS)
Mathematical models for the brightness temperature of object and environment in the microwave region
[DFVLR-FB-83-12] 02 p0211 N84-11378
Results of a new version of the LTRAN2-NLR (LTRANV) for unsteady viscous transonic flow computations
[NLR-TR-81078-U] 03 p0374 N84-12434
Software voting in asynchronous NMR (N-Modular Redundancy) computer structures
[NASA-CR-174488] 03 p0418 N84-12732
Ada-Europe guidelines for the portability of Ada programs, second edition
[NPL-DITC-27/83] 03 p0419 N84-12739
The AXIS test box software report
[RSRE-MEMO-3585] 03 p0420 N84-12741
Monte Carlo computer simulation program (MCHP) supporting a covariance analysis using the STANHP program
[DFVLR-MITT-83-06] 03 p0421 N84-12756
Computer graphics hardware and software of the HP 1000F system
[IFSI-82-8] 05 p0720 N84-14720
Software engineering — conferences
[ESA-SP-199] 05 p0721 N84-14729
Integrated Software Engineering Facilities (ISEF) 05 p0721 N84-14730
The Integrated Software Engineering Facilities (ISEF) software configuration management system 05 p0722 N84-14732
AMIX: An automated system for handling error notification data — amendments on UNIX (trademark); AMIX 05 p0722 N84-14734
EDDA: A very high level data flow specification language 05 p0722 N84-14735
IDA: Computer-aided testing of real-time software 05 p0722 N84-14736
The software engineering environment project model (PROMOD) 05 p0722 N84-14737
A user's view of the Statistic Analysis Package (SAP): A new software quality assurance tool for FORTRAN programs 05 p0722 N84-14738
Software configuration management 05 p0723 N84-14742
The role of quality assurance in the development of software for space applications 05 p0723 N84-14743
Practical experience of engineering software production to a structured programming standard 05 p0723 N84-14744
Project management and quality assurance in a multiapplication environment — software quality 05 p0723 N84-14745
Software engineering techniques employed in on-schedule completion of Meteosat-2 software 05 p0723 N84-14746
European community support to software engineering development through Ada activities and ESPRIT 05 p0724 N84-14747
The PET/MAESTRO: A user's view — software design system 05 p0724 N84-14750
Reliability and flexibility of the Infrared Astronomical Satellite (IRAS) on-board software 05 p0724 N84-14756
Software quality assurance Spacelab experience and future trends 05 p0725 N84-14759
Comparison of the portable Program ECS Package for Synchronous Orbit Control (PEPSOC) and the ESOC Multi-Satellite Support System (MSSS) control software 05 p0725 N84-14762
A method of calculating fully three dimensional inviscid flow through any type of turbomachine blade row 06 p0840 N84-15479
The BLOW-3A: A theoretical model to describe transient two phase flow conditions in Liquid Metal Fast Breeder Reactor (LMFBR) coolant channels 06 p0843 N84-15497
Multispectral Data Processing System (MDPS)
[AD-A133426] 06 p0896 N84-15816
A multipurpose production controller for plasma physics codes
[LA-9477-MS] 06 p0920 N84-15978
Computer programs for seismic analysis of piping systems with special reference to the power piping code B31.1 — pressure vessels
[CRIF-MT-158] 07 p1017 N84-16601
The graphical kernel system: Concepts and realization in Common Graphical Manager (CGM) — software package 07 p1018 N84-16605
A program system for computer assisted acquisition and analysis of classification maps in land association 07 p1019 N84-16611
Automatic connection of map edges for adjacent CIPS data bases — computer program 07 p1019 N84-16613
Guidelines for the design of large modular scientific libraries in Ada
[MW-NN-31/83] 07 p1056 N84-16840
A portable vector-code for autonomous multigrid modules
[MC-NW-154/83] 07 p1065 N84-16914
Traffic routing in a switched regenerative satellite. Volume 1, task 3: Traffic assignment
[ESA-CR(P)-1792-VOL-1] 08 p1147 N84-17463
Traffic routing in a switched regenerative satellite. Volume 2, task 4: Review (executive summary)
[ESA-CR(P)-1792-VOL-2] 08 p1147 N84-17464
Development of a computer program for road detection in satellite images
[FOA-C-30316-E1] 08 p1214 N84-17917
Journal on Numerical Methods and Computer Applications (selected articles)
[AD-A134752] 08 p1220 N84-17967
Development of a computer code for 3-dimensional higher order panel method for subsonic potential flow
[FFA-138] 09 p1253 N84-18180
An automatic procedure to reduce a large amount of spectrophotometric data 09 p1409 N84-19212
A survey of the Control system Analysis and Synthesis Program (CASPAR) package for Aerospace Research
[VTH-LR-336] 10 p1423 N84-19304
SKETCH: A computer program for plotting a transport airplane configuration in conceptual design
[VTH-LR-388] 10 p1429 N84-19348
IRSIM: A program for the calculation of infrared flux intensity incident on a spacecraft inside a test chamber 10 p1440 N84-19400
Field strength predictions using a computer and a terrain data base — terrestrial mobile radio systems 10 p1476 N84-19643
Simulation analysis and derivation of accuracy requirements for future terminal area navigation. Part 1: Single aircraft analysis
[BMFT-FB-W-83-035-PT-1] 12 p1768 N84-21535

Computing the radiation pressure forces by adapting thermal design verification softwares — large space structures 12 p1780 N84-21613
Simplified models and computational schemes of the aerodynamic load — large space structures 12 p1780 N84-21614
Cogeneration computer model assessment: Advanced cogeneration research study [NASA-CR-173453] 12 p1841 N84-22006
A user friendly operating system for the GLAS 4th order forecast-analysis system 12 p1853 N84-22072
CDC to CRAY FORTRAN conversion manual [NASA-CR-166574] 12 p1879 N84-22243
Static analysis package [REPT-71.3794] 12 p1884 N84-22283
Implementation of a stand alone FORTRAN version of the TOPSIM simulation package — communication systems analysis [ESA-CR(P)-1825] 12 p1884 N84-22284
Functional requirements for the development and use of a software-cost database [AD-B079998] 12 p1885 N84-22287
Reprogrammable onboard mission of IRAS [NLR-MP-83014-U] 13 p1937 N84-22600
A general purpose guidance simulation program: Software definition [BAE-BT-13122] 13 p2026 N84-23132
Glossary of Software Engineering Laboratory terms [NASA-TM-85606] 13 p2026 N84-23135
Data General Corporation, Eclipse MV/8000, AOS/VS HICOBOL, revision 2.01 [PB84-157346] 14 p2206 N84-24241
Tandem Computers, Incorporated, Tandem Nonstop 2, FORTRAN T92002E01 [PB84-157569] 14 p2207 N84-24246
Prime Computer, Incorporated, Prime 750, COBOL-74 19.4, revised [PB84-155985] 14 p2207 N84-24249
COBOL technical report, United Information Services, Incorporated, CDC CYBER 175, CDC COBOL 5.3 level 552 [PB84-156587] 14 p2208 N84-24251
Wang Laboratories, Incorporated, VS-100 VS COBOL, Version 3.8.1 [PB84-156595] 14 p2208 N84-24252
COBOL technical report, Wang Laboratories, Incorporated, VS-100 VS COBOL Version 3.8.1 [PB84-156678] 14 p2208 N84-24253
Certifying onboard software: A total progressive approach 15 p2269 N84-24825
Three lectures on theorem-proving and program verification 15 p2388 N84-25324
MPP disk subsystem [NASA-CR-175227] 15 p2388 N84-25325
Engineering programming at the Ecole Nationale Superieure des Telecommunications (ENST): Particularities and tendencies [ENST-C-83004] 15 p2390 N84-25338
A knowledge-based system for LP (Linear Programming) modeling [AD-A139991] 15 p2392 N84-25357
Fundamental design problems of distributed systems for the hard real-time environment [AD-A139996] 15 p2392 N84-25358
Installation and evaluation of SPLICE [AD-A140170] 16 p2484 N84-25933
Integration of LANDSAT land cover data into the Saginaw River basin geographic information system for hydrologic modeling [AD-A140185] 16 p2510 N84-26106
A problem in the optimal control of queueing workloads for the M/G/1 file [INPE-3106-PRE/505] 16 p2546 N84-26339
A scheme for mass and wind analysis on a limited area using multivariate three-dimensional optimum interpolation: Scientific documentation and first evaluation [KNMI-TR-46] 17 p2734 N84-27382
Software development based on multigrid techniques [GMD-84] 17 p2751 N84-27459
A study of the feasibility of duplicating JAMPS applications software in the Ada programming language [AD-A140884] 17 p2753 N84-27477
DISCRIM: A modification of TWINSPAN (Hill, 1979) to construct simple discriminant functions and to classify attributes, given a hierarchial classification of samples 17 p2756 N84-27493
Differential weights for samples and attributes in the ordination program DECORANA and the classification program TWINSPAN (Hill, 1979) 17 p2756 N84-27494
PAN AIR: A computer program for predicting subsonic or supersonic linear potential flows about arbitrary configurations using a high order panel method. Volume 2: User's manual (version 1.1) [NASA-CR-3252] 18 p2788 N84-27698
GD 80: Computer assisted device for engineers 18 p2827 N84-27949
Verification of the plate element with bending (element 11) of the program OPTIMA [IWECO-5074403-83-2] 18 p2854 N84-28121
Wave climate synthesis using NMIMET: A trilogy of published papers [NMI-R-167] 18 p2855 N84-28127
Assessment of a new global capability for wave climate synthesis 18 p2855 N84-28128
Wave climate synthesis worldwide 18 p2855 N84-28130
Simulation algorithms for parallel processes — computerized simulation [CSC-1023/00-FIN] 18 p2921 N84-28527
Coupling of the program OPTIMA to the pre and post processor SUPERTAB — finite element program [IWECO-5074403-100-83-1] 18 p2922 N84-28532
Monte Carlo studies of tandem mirror plasmas interacting with waves in the Ion Cyclotron Range of Frequencies [DE84-006901] 18 p2934 N84-28605
Evaluation of automated configuration management tools in ADA programming support environments [AD-A140982] 18 p2944 N84-28666
NIMBUS observation processing system requirements NG-13. ERB master archival. Tape specification no. T134081 ERB Mat, revision 1 [NASA-TM-85388] 18 p2944 N84-28668
Horizon and Prime Communication Programs HCP and PCP [REPT-72/84/R006U] 19 p3003 N84-29033
The program ORBDOP (extended GEODOP) — satellite position 19 p3039 N84-29280
Satellite Doppler point positioning using the Navy Navigation Satellite System 19 p3039 N84-29281
Real-time applications in multiprocessor systems [AD-A142130] 19 p3072 N84-29492
Local automation model: System specification [AD-A141503] 19 p3116 N84-29798
Definition and layout of a traffic generator for an air traffic control simulation [DFVLR-FB-84-15] 20 p3128 N84-29862
Software research for computer aided cartography at the Berlin Technical University 20 p3226 N84-30503
The DFVLR contrast tranemittance model SCOTRAN-program system: Description and operating instruction [DFVLR-FB-84-18] 20 p3243 N84-30589
Preliminary result of our new Nationwide Evaluation of X-ray Trends (NEXT) program for Italy [ISS-L-84/3] 20 p3260 N84-30693
FORTRAN 8x: The scientific programming language of the future [DE84-012526] 20 p3274 N84-30787
GAME: An interactive graphic system for automatic mesh generation [CISE-2211] 20 p3275 N84-30790
A system for policy analysis in manpower planning. Part 2: Design of the dialogue component [AD-B082961] 20 p3313 N84-31043
Automatic finite element generators 21 p3420 N84-31695
Interactive finite elements for general engine dynamics analysis 21 p3421 N84-31698
Extension of finite element programs to thermoelastoviscoplastic domains [CETIM-11-A-102] 21 p3424 N84-31716
Preliminary study on elastoplasticity in large transformations [CETIM-11-E-360] 21 p3424 N84-31719
NONAX-TRANAX-CASTOR 2D — structural analysis programs [CETIM-100940] 21 p3424 N84-31721
Fracture mechanics formulas on microcomputers [CETIM-100960] 21 p3424 N84-31722
Software design issues in the implementation of hierarchical display editors 21 p3463 N84-31953
Signal analysis and data processing system (acoustic and vibratory) [CETIM-11-H-50-9] 21 p3467 N84-31981
Data base management of software development [AD-P003486] 21 p3513 N84-32253
Software documentation support [AD-P003487] 21 p3513 N84-32254
Performance simulation for unit-memory convolutional codes with byte-oriented Viterbi decoding algorithm 22 p3573 N84-32630
LANDSAT-4 image data quality analysis — LANDSAT 5 imagery [E84-10173] 22 p3613 N84-32893
S-1 software development and maintenance [DE84-013071] 22 p3642 N84-33091
Planetary Data Workshop, part 2 [NASA-CP-2343-PT-2] 23 p3842 N84-34376
SOFT-1: Imaging processing software 23 p3843 N84-34378
Non-imaging software/data analysis requirements 23 p3843 N84-34379
Geometry software common to all experiments 23 p3843 N84-34380
Real-time solar magnetograph operation system software design and user's guide [NASA-TM-86467] 24 p3945 N84-34976
Program verification [AD-A144360] 24 p3948 N84-34988
Summaries of the FY 1983 applied mathematical sciences research program [DOE/ER-0157/1] 24 p3950 N84-35010
IUE data reduction facilities on Starlink 24 p3962 N84-35226
The NASA IUE data analysis facilities 24 p3962 N84-35227

COMPUTER SYSTEMS SIMULATION

Feasibility study for a generalized gate logic software simulator [NASA-CR-172159] 01 p0118 N84-10785
Design of relational database benchmarks [AD-A133651] 05 p0719 N84-14710
Space-time algorithms: Semantics and Methodology 05 p0721 N84-14726
Requirements on reliability models, and their consequences 05 p0723 N84-14740
Constraint driven synthesis of hardware design 08 p1207 N84-17870
Computer Science and Technology: Proceedings of the 19th Meeting of the Computer Performance Evaluation Users Group (CPEUG) [PB84-114529] 08 p1210 N84-17892
A dual digital to video converter for avionics symbology and messages [AD-A138383] 12 p1771 N84-21547
CPESIM II: A computer system simulation for computer performance evaluation use [AD-A138116] 12 p1877 N84-22233
Rediflow multiprocessing [DE84-003194] 12 p1884 N84-22282
The normal approximation and queue control for response times in a processor-shared computer system model [AD-A139587] 14 p2210 N84-24263
The simulation of a major Automated Information System (AIS) on a microcomputer [AD-A143599] 23 p3834 N84-34323

COMPUTER TECHNIQUES

NT IPAD
Audio signal management techniques [AD-A130391] 01 p0062 N84-10410
Computerized audio processor [AD-A130390] 01 p0063 N84-10411
Modeling of parasitic effects in discrete passive components [AD-A130458] 01 p0070 N84-10460
Multipurpose weather roundup program [PB83-222612] 01 p0110 N84-10711
Proceedings of the Conference on Applied Natural Language Processing [AD-A129824] 01 p0121 N84-10787
Proof-checking, theorem proving and program verification [AD-A130638] 01 p0123 N84-10799
CAMDAS (CAMAC data-acquisition system) [DE83-014907] 01 p0124 N84-10810
On the application of optical signal processing to the solution of Riccati equations [AD-A130710] 01 p0133 N84-10869
Space-variant optical systems [AD-A130096] 01 p0146 N84-10961
Ray-tracing analysis of electron-cyclotron-resonance heating in straight stellarators [DE83-013854] 01 p0149 N84-10982
Computer modeling of the vapor compression cycle with constant flow area expansion device [PB83-226639] 01 p0156 N84-11029
Computer modeling of the vapor compression cycle with constant flow area expansion device: Appendix J [PB83-226647] 01 p0156 N84-11030
Downloading and post-processing of bibliographic information with the TIS (Technology Information System) intelligent gateway computer [AD-A130800] 01 p0162 N84-11062
Investigation of air transportation technology at Ohio University, 1982 02 p0167 N84-11100
Optical means of measuring particle-sea interactions in the Caribbean Sea and Gulf of Mexico [AD-A131290] 02 p0257 N84-11685
Expert systems: Matching techniques to tasks [AD-A131385] 02 p0279 N84-11828
Technology and the future evolution of the ATC system 03 p0329 N84-12148

Control of multiaxis vibration systems
03 p0339 N84-12203
Numerical modeling techniques for antennas
03 p0385 N84-12373
Structure and vibrational spectra of a model of a-Si:H with periodic boundary conditions
[DE83-015245] 03 p0367 N84-12390
Zero-dimensional model of compressible gas flow in networks of pressure vessels: Program TRIC
[DE83-017121] 03 p0373 N84-12431
Revised isothermal analysis program for Stirling engines
[DE83-017276] 03 p0384 N84-12504
Proceedings of the NASA Symposium on Mathematical Pattern Recognition and Image Analysis
[E84-10032] 03 p0392 N84-12557
Effect of noise in the three-parameter logistic model
[AD-A131867] 03 p0416 N84-12721
Hardware and software configuration of the Doublet 3 diagnostic-data-acquisition computer system
[DE83-013427] 03 p0418 N84-12733
Using structural and functional information in diagnostic design
[AD-A131859] 03 p0423 N84-12769
Representations for reasoning about change
[AD-A131649] 03 p0424 N84-12772
On the performance of two-stage group screening experiments
[AD-A131970] 03 p0428 N84-12807
Experiments on the nuclear interactions of pions
[DE83-016285] 03 p0434 N84-12844
Computational synergetics and innovation in wave, vortex, and plasma cloud dynamics
[DE83-015252] 03 p0445 N84-12926
A microcomputer program package of the USAF stability and control DATCOM
[AD-A132143] 04 p0487 N84-13199
A compact optical pulse compressor with computer-generated holographic masks for radar applications
[AD-A132152] 04 p0522 N84-13430
Fully-coupled solution of pressure-linked fluid flow equations
[DE83-017989] 04 p0536 N84-13527
A survey of electric laser codes
[AD-A132352] 04 p0540 N84-13551
Development of recuperator manufacturing techniques, phase 2
[AD-A132448] 04 p0544 N84-13581
Probabilistic fatigue life predictions of structural components in high-cycle fatigue regimes
[AD-A132425] 04 p0549 N84-13615
Automated standard nautical chart production
[AD-A132249] 04 p0553 N84-13644
Vectorizing and machine-spanning techniques
[DE84-000469] 04 p0578 N84-13810
Impossibility of distributed consensus with one faulty process
[AD-A132503] 04 p0580 N84-13823
Investigation in the application of computer-aided process-planning techniques for mechanical engineering at Bendix Kansas City
[DE84-000302] 04 p0582 N84-13842
Curve fit technique for a smooth curve using Gaussian sections
[AD-A132499] 04 p0589 N84-13893
Computer-based ultrasonic multiple-frequency pulse-echo test system
[AD-A132227] 04 p0595 N84-13926
The quantum hall effect 04 p0611 N84-14036
A programmable voice processor for fighter aircraft applications
[AD-A133780] 05 p0668 N84-14393
Ultrasonic inspection for roadwheel bondline quality
[AD-A132608] 05 p0690 N84-14531
Minicomputer administered tasks in the study of effects of sustained work on human performance
[AD-A133870] 05 p0715 N84-14688
Symposium on Computers in Construction
[CSIR-S-285] 05 p0717 N84-14695
Integrated budget control using a desktop computer
05 p0717 N84-14697
Computerised plant control system
05 p0717 N84-14698
Integrated bid estimate systems for contractors
05 p0717 N84-14699
Tendering on a micro computer
05 p0717 N84-14700
Keeping your fingers crossed won't help
05 p0718 N84-14702
Computers for the smaller contractors
05 p0718 N84-14703
Is critical path planning the answer — computer techniques in project management
05 p0718 N84-14705
Construction planning and control: Current practice and continuing challenges 05 p0718 N84-14706
INTERACT execute facility for job scheduling and manipulation
[DE84-001653] 05 p0758 N84-14968
General purpose magnetic-measurement data-acquisition system
[DE84-001101] 05 p0759 N84-14982
Loads and aeroelasticity division research and technology accomplishments for FY 1982 and plans for FY 1983
[NASA-TM-84594] 06 p0782 N84-15120
In situ characterization of seawater using a computerized suite of optical instruments 06 p0872 N84-15675
Methodology for the objective validation of model performance, with an application to atmospheric transport models
[DE83-015693] 06 p0875 N84-15693
A distributed control system for the CMU Rover
[AD-A133201] 06 p0893 N84-15802
Status of research at the Institute for Computer Applications in Science and Engineering (ICASE)
[NASA-CR-172267] 06 p0895 N84-15811
Techniques for sensor-based diagnosis
[AD-A133297] 06 p0896 N84-15814
A modular twin bus microprocessor system for laboratory automation
[AD-A133372] 06 p0896 N84-15815
Efficient demand-driven evaluation
[AD-A133477] 06 p0898 N84-15827
Computer-Output Microfiche (COM) on the Oak Ridge computer network
[DE84-002422] 06 p0899 N84-15836
Numerical simulation and practical testing of a rotation-symmetric ion source for gas mass spectrometers
[DE84-002925] 07 p0970 N84-16288
Sodium heat transfer system modeling
[DE84-002051] 07 p1004 N84-16509
Identifying different item response curves
[AD-A133259] 07 p1049 N84-16798
Software for computer controlled X-ray photoelectron and Auger Spectroscopy
[DE84-003912] 07 p1056 N84-16837
Aids for decision making with conflicting objectives
[CSIR-SWISK-32] 07 p1059 N84-16861
A parametric bootstrap procedure for testing separate families of hypotheses
[AD-A134533] 07 p1062 N84-16887
Database transfers between several systems
[DE84-003841] 07 p1085 N84-17056
Progress toward a coordinated system of databases covering the engineering properties of materials
07 p1087 N84-17068
Journal on Numerical Methods and Computer Applications (selected articles)
[AD-A134752] 08 p1220 N84-17967
Machine models, computational complexity and number theory 08 p1223 N84-17991
Computational methods in number theory, part 2
[MATH-CENTRE-TRACTS-155-PT-2]
08 p1225 N84-17999
The computation of Galois groups
08 p1225 N84-18000
Class numbers and units 08 p1225 N84-18001
Multi-dimensional continued fraction algorithms
08 p1225 N84-18003
Diophantine equations 08 p1225 N84-18004
Numerical computation of special zeros of partial sums of Riemann's zeta function 08 p1225 N84-18005
The first 200,000,001 zeros of Riemann's zeta function 08 p1225 N84-18006
A program for developing automated scientific-information processing in maritime economy
[AD-A135518] 08 p1240 N84-18107
Nelepo describes Intercosmos-Black Sea experiment
09 p1265 N84-18257
Space Station needs, attributes and architectural options: Summary briefing
[NASA-CR-173328] 09 p1267 N84-18271
Princeton VLSI project
[AD-A136551] 09 p1307 N84-18546
A methodology for digital processing of geographic and cartographic data
[AD-A135835] 09 p1337 N84-18730
Detection of bright spots in seismic signal using pattern recognition techniques
[AD-A136210] 09 p1346 N84-18793
Measurement of thigmomorphogenesis and gravitropism by non-intrusive computerized video image processing
09 p1356 N84-18859
Manufacturing methods and technology, CAM (Computer Aided Manufacturing) related projects, FY 83-85
[AD-A136572] 09 p1367 N84-18924
Computational solution of random equations
[AD-A136418] 09 p1375 N84-18978
Computer-aided analysis of reconstructability analysis of many-dimensional relations
[PB84-127935] 09 p1380 N84-19016
Integrating multi-objective optimization methodologies in BMD technology
[AD-A136161] 09 p1383 N84-19036
Computer-based methods for thermodynamic analysis of materials processing
[AD-A136085] 09 p1397 N84-19123
A multi-period repair parts inventory model for a naval air rework facility
[AD-A136873] 10 p1419 N84-19280
Automated en route air traffic control algorithmic specifications. Volume 2: Airspace probe
[AD-A136850] 10 p1426 N84-19324
A model for evaluation of satellite population management alternatives
[AD-A136886] 10 p1436 N84-19386
Operational software technology working group report IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A137335] 10 p1504 N84-19832
Shock spectral analysis by personal computer, using the IFT algorithm 10 p1509 N84-19875
Automated Instructional Media Selection (AIMS)
[AD-A135749] 10 p1552 N84-20168
Institute for Computer Applications in Science and Engineering (ICASE)
[NASA-CR-172304] 10 p1556 N84-20195
Integrated Computer-Aided Manufacturing (ICAM) architecture. Part 3, volume 2: Procedures
[AD-A137422] 10 p1563 N84-20240
Computer generation of plan of action and milestone schedule
[AD-A137057] 10 p1564 N84-20244
Three-dimensional graphics for scientific data display and analysis
[DE84-004075] 10 p1565 N84-20253
Artificial intelligence applied to the command, control, communications and intelligence of the US Central Command
[AD-A137205] 10 p1567 N84-20267
Knowledge-based support systems for long range planning
[AD-A137311] 10 p1591 N84-20424
Typographical terminology
[DE84-001981] 10 p1593 N84-20441
Computer control of refrigerating plants
11 p1640 N84-20724
Manufacturing information system
[AD-A137891] 11 p1641 N84-20730
Computation of linear communication antennas
[PB84-143502] 11 p1645 N84-20755
Application of methods of numerical and software engineering analysis to physical and engineering data collected in a variety of laboratory and field measurement programs
[AD-A137863] 11 p1682 N84-20975
Use of microcomputers for inventory management with uncertain demand
[DE84-005179] 11 p1705 N84-21112
Proceedings of the 4th LAN-Transport Workshop
[PB84-138825] 11 p1705 N84-21116
Operation of a computer aided drafting system: Improvement, results and hopes
[DE84-005176] 11 p1708 N84-21134
Evaluative report on the National Engineering Laboratory, National Bureau of Standards, fiscal year 1983
[PB84-129873] 11 p1747 N84-21398
Distributed knowledge base systems for diagnosis and information retrieval
[AD-A137828] 11 p1750 N84-21421
Experiment in benchmarking database systems
[DE84-003840] 11 p1750 N84-21423
Laser velocimeter optical traverse scheme: An investigation of a proposed optical scanning technique for Arnold Engineering and Development Center's four-foot transonic wind tunnel
[AD-A138168] 12 p1818 N84-21853
Evaluation of a native vegetation masking technique
[E84-10106] 12 p1829 N84-21926
Stereo reconstruction study
[AD-A138208] 12 p1836 N84-21970
Matching wind turbine rotors and loads: Computational methods for designers
[DE84-006921] 12 p1843 N84-22019
Comparison of a simplified version of TRACKER with an analytic solution to a model ray tracing problem
[DE84-007091] 12 p1848 N84-22044
Interactive graphics for geometry modeling
12 p1873 N84-22207

Efficient computer architectures for computing discrete Fourier transforms
[AD-A138109] 12 p1881 N84-22258

A microcomputer based system for analysis of line drawing quantization techniques
[AD-A138413] 12 p1883 N84-22272

Step sizes used by one-step codes for ODEs
[DE84-006317] 12 p1895 N84-22344

Top-down statistical estimation on a database
[AD-A138316] 12 p1896 N84-22351

East Europe report: Scientific affairs
[JPRS-ESA-84-010] 12 p1897 N84-22356

Concerted effort for nationwide computer literacy
12 p1897 N84-22357

Interactive Hazardous Materials Information System (HMIS): Description and assessment
[AD-A138329] 12 p1919 N84-22500

Computation of radiation in stratified media by Fast Fourier Transform (FFT)
[AD-A138647] 13 p1982 N84-22869

60 GHz gyrotron development program
[DE84-006606] 13 p1987 N84-22899

Development of a 3-D microscale topography system
[AD-A138809] 13 p2006 N84-23013

Coherence study of geomagnetic fluctuations in frequency range .04 - 0.6 HZ between remote land sites
[AD-A138542] 13 p2011 N84-23042

The use of a small digital computer for on-line behavioral experiments
[AD-A138975] 13 p2025 N84-23126

Ordered address binary trees: A technique for the optimization of access to trees on disk
[INPE-2916-PRE/428] 13 p2026 N84-23133

User manual for driver program
[AD-A139028] 13 p2029 N84-23156

Empirical analysis of a token ring network
[AD-A138905] 13 p2030 N84-23164

Computer methods for industrial automation and robotics 13 p2031 N84-23168

Statistics and operations research in Europe--1983
[AD-A138953] 13 p2037 N84-23215

Paperless solicitation and contracting
[AD-P002749] 13 p2050 N84-23296

Consolidation of DOD bidder's mailing list application
[AD-P002752] 13 p2050 N84-23299

Expert systems for price analysis: A feasibility study
[AD-P002795] 13 p2057 N84-23341

An intelligent manual for price analysis
[AD-P002798] 13 p2057 N84-23344

Central Demand Data Base (CDDB) End Item Code (EIC)
[AD-P002807] 13 p2059 N84-23353

Employment changes resulting from the award of contracts in labor surplus areas
[AD-P002834] 13 p2063 N84-23379

INTFL-8401 computer tomography for interferomatic aerodynamic measurements
[AD-A139591] 14 p2101 N84-23611

A new method for obtaining individual component spectra from those of complex mixtures
[AD-A139262] 14 p2122 N84-23719

An acoustical imaging system for the inspection of solid rocket motors
[AD-A139482] 14 p2156 N84-23918

Performance in dual tasks
[AD-A138603] 14 p2186 N84-24096

Development of the A-6E/A-6E TRAM/KA-6D NATOPS (Naval Air Training and Operating Procedures Standardization) calculator aided performance planning system (NCAPPS)
[AD-A138897] 14 p2186 N84-24100

Solving the Poisson equation on the FPS-164 (Floating Point System-164)
[AD-A139307] 14 p2211 N84-24278

A note on mixed exponential approximations for GI/G/1 waiting times
[AD-A139534] 14 p2219 N84-24313

Vector optimization techniques
[AD-A139497] 14 p2219 N84-24317

Vibration Control Of Space Structures VCOSS A: High and low-authority hardware implementations
[AD-A139931] 15 p2281 N84-24702

The 6th International Conference on Computing Methods in Applied Sciences and Engineering
[AD-A139824] 15 p2317 N84-24906

Photogrammetric research at the Royal Institute of Technology, Stockholm, Sweden
15 p2358 N84-25147

Geometrical testing of X, Y plotters
15 p2359 N84-25155

Modeling glacial climates
[NASA-TM-86106] 15 p2371 N84-25221

Dimensionality, scoring, and related problems in adaptive testing
[AD-A139849] 15 p2383 N84-25290

The design and production of a procedure training aid using the procedure learning format and the computer automated page layout (PLA) routine
[AD-A139988] 15 p2383 N84-25292

Massed practice: Does it change the statistical properties of performance tests?
[AD-A139338] 15 p2383 N84-25294

Strategic explanations for a diagnostic consultation system
[AD-A140014] 15 p2396 N84-25371

Results of demonstration of JRIM prototype data base
[AD-A139772] 15 p2418 N84-25518

Computer-aided analysis of atherosclerosis
15 p2431 N84-25598

Advances in Strapdown Inertial Systems
[AGARD-LS-133] 16 p2448 N84-25691

Initial alignment and augmentation of the ARINC 705 strapdown AHRS LTR-81 16 p2447 N84-25699

Shock wave modelling and the HULL computer code formation of Mach stems
[MRL-R-907] 16 p2486 N84-25942

Development of a digital mapping program at the Defense Mapping Agency
[AD-A140329] 16 p2511 N84-26113

Parameter estimation and infiltration tests at the repeat facility 16 p2514 N84-26136

Digitally controlled sonars
[AD-P003121] 16 p2533 N84-26262

Application of computer image processing to underwater surveys
[AD-P003122] 16 p2533 N84-26263

Improving the legibility of computer printouts
[BMFT-FB-DV-84-001] 16 p2542 N84-26315

Microcomputer network for Computerized Adaptive Testing (CAT)
[AD-A140256] 16 p2546 N84-26341

Technical and scientific publication 1983: Research and development 16 p2561 N84-26430

Important CAD/CAM utilization at MBB
[MBB-Z-13-83-O] 16 p2564 N84-26451

The electronic chart
[AD-A140565] 17 p2604 N84-26686

Development of concepts for corrosion assessment and evaluation of underground pipelines
[AD-A140633] 17 p2623 N84-26788

Auger characterization of new and aged dispenser cathode surfaces
[AD-A140754] 17 p2663 N84-26988

Decoders for MST radars 17 p2692 N84-27146

Microcomputers: Introduction to features and uses
[PB84-178821] 17 p2750 N84-27456

The impact of communicating through computers
17 p2750 N84-27457

Automatic image processing
[INPE-3001-MD/024] 17 p2752 N84-27484

Application of supercomputers to computational aerodynamics
[NASA-TM-85965] 18 p2785 N84-27680

Development and evaluation of a performance modeling flight test approach based on quasi steady-state maneuvers
[NASA-CR-170414] 18 p2793 N84-27724

Vehicle concept for a robotic missile launcher
[AD-A141297] 18 p2802 N84-27782

A microprocessor-based control system for the Vienna PDS microdensitometer 18 p2841 N84-28037

Computerized hydrologic research complex 'Gidrozond' 18 p2856 N84-28139

Rapid Test Bed Concentrator (TBC) alignment techniques 18 p2875 N84-28256

MAGIC (Microcomputer Applications of Graphics and Interactive Communications). 1: A study of manual versus vocal control under heavy task loading
[AD-P003320] 18 p2910 N84-28456

Assessment of learning abilities using rate measures
[AD-P003340] 18 p2911 N84-28463

The dual meaning of the term context: Implications for research, theory and applications
[AD-P003365] 18 p2913 N84-28478

Computer generated animation and movie production at LARC: A case study
[NASA-CR-172375] 18 p2917 N84-28494

East Europe Report: Science and technology. Czechoslovakia: Computer technology examined
[JPRS-ESA-84-022] 18 p2918 N84-28499

Selections on computer technology in CSSR
18 p2918 N84-28500

GDR robotron office computers
18 p2918 N84-28502

ELORG permanent exhibition
18 p2919 N84-28508

Office automation: A look beyond word processing
[AD-A132764] 18 p2944 N84-28670

Using interactive computing to expand intelligence testing: A critique and prospectus
[AD-A141657] 19 p3072 N84-29489

Software support for fully distributed/loosely coupled processing systems. Volume 2: Appendix-selected papers
[AD-A141501] 19 p3076 N84-29519

Specification and implementation of atomic data types
[AD-A141823] 19 p3078 N84-29529

LONEX (Laboratory Office Network Experiment) cost/benefits study, volume 1
[AD-A141396] 19 p3114 N84-29786

Design of a safety monitor system for high explosives machining
[DE84-010101] 20 p3168 N84-30113

The missing cone problem in computer tomography and a model for interpolation in synthetic aperture radar
[AD-A142421] 20 p3174 N84-30157

TOPAZ: A finite element heat conduction code for analyzing 2-D solids
[DE84-010676] 20 p3187 N84-30247

Nova laser alignment control system
[DE84-010992] 20 p3194 N84-30288

Analysis of computer interactive tests for assigning helicopter pilots to different missions
[AD-A142434] 20 p3262 N84-30696

Review of the Third Biennial Conference on Real-Time Computer Applications in Nuclear and Particle Physics
[DE84-002457] 20 p3266 N84-30720

Strategic computing: New-generation computing technology: A strategic plan for its development and application to critical problems in defense
[AD-A141982] 20 p3266 N84-30721

Performance measurement in a distributed processing environment
[AD-A142410] 20 p3266 N84-30722

A user-oriented laboratory data entry computer system designed to reduce errors
[DE84-011901] 20 p3267 N84-30730

Ada (registered trademark) training curriculum. Ada (registered trademark) for software managers, L201. Teachers guide: Volume 2
[AD-A142431] 20 p3272 N84-30769

FORTRAN 8x: The scientific programming language of the future
[DE84-012526] 20 p3274 N84-30787

Smoothed local symmetries and their implementation
[AD-A142489] 20 p3279 N84-30811

A numerical algorithm for chained aggregation and modified chained aggregation
[AD-A142394] 20 p3280 N84-30822

Architecture, hardware and software issues in fielding the next generation DOD processors
[AD-P003581] 21 p3339 N84-31186

The 6M x 8M low speed wind tunnel
21 p3345 N84-31221

Computer analysis of phased array far-field patterns for non-symmetrical feed networks
[AD-P003502] 21 p3383 N84-31470

Development of a computer-assisted simulation of tactical voice communications. Phase 1: Conceptual design
[AD-A143036] 21 p3386 N84-31492

Voice integrated presentation system
[AD-D011076] 21 p3387 N84-31495

Computer simulation of surface and film processes
[NASA-CR-173682] 21 p3419 N84-31682

Activities of the Remote Sensing Information Sciences Research Group
[E84-10177] 21 p3427 N84-31739

Knowledge based engineering for spatial database management and use 21 p3428 N84-31745

The potential of AI techniques for remote sensing
21 p3428 N84-31748

DMA (Defense Mapping Agency): The digital revolution
[AD-A142787] 21 p3431 N84-31767

Fault tolerant software modules for SIFT
[NASA-CR-165874] 21 p3463 N84-31955

A software scheme for managing magnetic tape storage space
[AD-A142847] 21 p3465 N84-31969

Integrated Computer-Aided Manufacturing (ICAM) architecture. Part 3, Volume 6: Composite information model of 'Manufacture product' (MFG1)
[AD-A143072] 21 p3466 N84-31973

Preliminary investigations of means to transfer computer programs to the forging industry
[CETIM-1.3K.38.2] 21 p3467 N84-31983

Fundamental research in applied mathematics
[AD-A143123] 21 p3474 N84-32016

Modular image analysis system
[BMFT-FB-T-84-074] 21 p3499 N84-32177

Solution and sensitivity analysis of RESDYN model 1a using SENSUMT
[AD-A142788] 21 p3515 N84-32267

The relationship between administrative style and the use of computer-based systems: An attitudinal study of academic library professionals 21 p3517 N84-32276

Flight Experiment Demonstration System (FEDS): Mathematical specification
[NASA-CR-175252] 22 p3539 N84-32405
A finite element implementation of the dual variable method for the Navier-Stokes equations
22 p3592 N84-32746
Strategies of design, development and activation of the Nova control system
[DE84-013075] 22 p3600 N84-32601
Impact of robots and computers on the work force of the 1980's
[GPO-31-912] 22 p3603 N84-32626
Twelfth NASTRAN Users' Colloquium
[NASA-CP-2328] 22 p3609 N84-32864
Manual and automated line generalization and feature displacement
[AD-A143250] 22 p3614 N84-32900
Computer calculated analysis of subsurface formation porosities in central New York state
22 p3620 N84-32941
Summary of research in applied mathematics, numerical analysis and computer science at the Institute for Computer Applications in Science and Engineering
[NASA-CR-172421] 22 p3633 N84-33024
Summary of research performed at MIT Laboratory for Computer Science
[AD-A143459] 22 p3636 N84-33064
The use of pipeline techniques in the architecture of digital processors employed in real time applications
[INPE-2992-TDL/153] 22 p3639 N84-33075
Computer vision for real-time orbital operations. Center directors discretionary fund
[NASA-TM-86457] 22 p3640 N84-33076
High-level operations in nonprocedural programming languages
[AD-A143470] 22 p3640 N84-33078
West Europe report: Science and technology
[JPRS-WST-84-030] 22 p3651 N84-33141
Point response functions for unfilled optical arrays
[AD-A143384] 22 p3657 N84-33183
Direct lift command blending
[AD-D011178] 23 p3696 N84-33420
Automated helium gas metering system
[DE84-015083] 23 p3751 N84-33779
Multiresolution spatially constrained clustering of remotely sensed data on the massively parallel processor 23 p3779 N84-33962
Analysing remotely sensed data on the Massively Parallel Processor 23 p3779 N84-33963
Comprehensive silicon solar cell computer modeling
[NASA-CR-173953] 23 p3788 N84-34025
Development of an automatic system for the treatment of magnetotelluric data
[INPE-3165-TDL/171] 23 p3797 N84-34075
Computer-based measurement of intellectual capabilities
[AD-A144065] 23 p3810 N84-34162
The perception of saturation and hue on colour cathode ray tubes
[AD-A143645] 23 p3811 N84-34167
Report of the working group on large-scale computing in aeronautics
[AGARD-AR-209] 23 p3813 N84-34177
Artificial intelligence theory and reconfigurable control systems
[AD-A143766] 23 p3817 N84-34203
Computational modeling and mathematics applied to the physical sciences
[PB84-180512] 23 p3819 N84-34222
Space-variant optical systems
[AD-A143996] 23 p3825 N84-34259
Managing microcomputers: A survival kit for functional managers
[AD-A144006] 23 p3833 N84-34316
Catalog of existing published periodicals of INPE, Volume 7
[INPE-2686-NTE/206] 23 p3834 N84-34320
The determination of frequencies and mass characteristics of binary stars in open clusters
23 p3839 N84-34355
Range-only multistatic radar system
[AD-D011201] 24 p3896 N84-34671
Theoretical and experimental studies in support of the geophysical fluid flow experiment
24 p3923 N84-34832
Numerical simulation of mesoscale precipitation
24 p3930 N84-34876
Search for solar signals in GOES imagery and cloud climatology analysis 24 p3931 N84-34881
Method of acceleration of arithmetic calculations
24 p3941 N84-34949
Structural approach to design of multiprocessor database management system
24 p3942 N84-34953
Research in the design of high-performance reconfigurable systems
[NASA-CR-173998] 24 p3942 N84-34957
LISP implementation baseline investigation
[AD-A144244] 24 p3946 N84-34963
Computer aided data acquisition and control of an internal combustion engine
[AD-A144425] 24 p3946 N84-34990
A guide to the Electrical Analysis Software System (EASS)
[AD-A144680] 24 p3947 N84-34998
Summaries of the FY 1983 applied mathematical sciences research program
[DOE/ER-0157/1] 24 p3950 N84-35010
Report of the Information Technology Workshop
[AD-A144212] 24 p3968 N84-35126

COMPUTER VISION
Computer vision research and its applications to automated cartography
[AD-A131289] 02 p0240 N84-11572
Scaling theorems for zero-crossings
[AD-A131599] 02 p0281 N84-11839
Picking up an object from a pile of objects
[AD-A133631] 05 p0716 N84-14691
Automatic inspection for printed wiring
[AD-A133328] 06 p0654 N84-15566
Image understanding research and its application to cartography and computer-based analysis of aerial imagery
[AD-A133495] 06 p0866 N84-15642
POPEYE: A gray-level vision system for robotics applications
[AD-A133298] 06 p0893 N84-15804
Implementation of automatic focusing algorithms for a computer vision system with camera control
[AD-A133492] 06 p0894 N84-15807
A representation for shape based on peaks and ridges in the difference of low-pass transform
[AD-A133299] 06 p0901 N84-15849
Sensor control of robot arc welding
06 p0931 N84-16047
Design and prototype implementation of SCAN: A programming language for scene analysis
06 p1210 N84-17893
Robotics at Savannah River
[DE84-003482] 11 p1712 N84-21158
Stereo reconstruction study
[AD-A138208] 12 p1836 N84-21970
Volumetric representation for object model acquisition
12 p1870 N84-22189
Image-plane processing for improved computer vision
12 p1904 N84-22404
Machine vision: Three generations of commercial systems
[AD-A139037] 13 p2024 N84-23123
A high speed processor for binary images
[AD-A138908] 13 p2025 N84-23125
Preliminary DSRS design
[AD-A138890] 14 p2169 N84-23995
Experiments to correct a digital map data base using scene analysis
[AD-A139447] 14 p2248 N84-24499
Parallel image processing and image understanding
[AD-A142162] 19 p3042 N84-29300
PRISM: A practical real-time imaging stereo matcher
[AD-A142532] 20 p3259 N84-30686
Strategic computing: New-generation computing technology: A strategic plan for its development and application to critical problems in defense
[AD-A141982] 20 p3266 N84-30721
Computer vision for real-time orbital operations. Center directors discretionary fund
[NASA-TM-86457] 22 p3640 N84-33076

COMPUTERIZED CONTROL
U NUMERICAL CONTROL

COMPUTERIZED DESIGN
U COMPUTER AIDED DESIGN

COMPUTERIZED SIMULATION
NT ANALOG SIMULATION
NT DIGITAL SIMULATION
Numerical simulation of spacecraft charging phenomena at high altitude
[AD-A130043] 01 p0028 N84-10178
Curing of graphite/epoxy composites
01 p0030 N84-10186
Preliminary analysis of the seismic vulnerability of selected buildings at Fort Ord, California using the rapid eismic analysis procedure
[AD-A130924] 01 p0057 N84-10372
Computer simulator for a mobile telephone system
[NASA-CR-174533] 01 p0061 N84-10401
Physical and computer modeling of military earth grounding practices in a HEMP (High-Altitude Electromagnetic Pulse) environment
[AD-A130141] 01 p0070 N84-10454
Numerical method for computing flow through partially saturated porous media
[DE83-007910] 01 p0081 N84-10529
Stinger post hybrid simulation: Design description and users' manual
[AD-A130027] 01 p0122 N84-10791
Simulation of non-Markovian systems
[AD-A130637] 01 p0133 N84-10871
Development of real-time ATC simulation facility
02 p0168 N84-11106
A model to investigate losses and exchange ratios in large-scale air-to-air engagements
[AD-A131410] 02 p0178 N84-11166
Finite element simulation of viscoelastic flows
02 p0217 N84-11423
COMPBL-II: Compressible, variable pressure boundary layer program for arbitrary gaseous mixtures
[AD-A131352] 02 p0218 N84-11427
Flow-through boundary conditions for time-dependent, buoyancy-influenced flow simulations using low order finite elements
[DE83-010256] 02 p0218 N84-11430
User's manual for SPECTROM-41: A finite-element heat transfer program
[DE83-014809] 02 p0219 N84-11439
The behavior of cold gas in spheroidal galactic potentials 02 p0306 N84-12010
General aviation single pilot IFR autopilot study
03 p0312 N84-12095
Combustion jet ignition 03 p0336 N84-12188
Simulation of electro-servo-hydraulic actuator for high quality testing — of spacecraft 03 p0340 N84-12206
Simulation of mechanical cross coupling of multiaxes vibration facilities 03 p0340 N84-12207
Performance of add-on-type heat pump water heaters using two different test methods
[PB83-222703] 03 p0359 N84-12332
Aeroelastic analysis for propellers - mathematical formulations and program user's manual
[NASA-CR-3729] 03 p0388 N84-12530
Prediction of dynamic effects due to vehicles crossing military bridges
[ISVR-TR-120] 03 p0391 N84-12548
A numerical study on the evolution of tornadoes
03 p0409 N84-12679
The use of a formal simulator to verify a simple real time control program
[AD-A131732] 03 p0420 N84-12745
High-level control programs at NSLS
[DE83-010935] 03 p0421 N84-12754
Monte Carlo computer simulation program (MCHP) supporting a covariance analysis using the STANHP program
[DFVLR-MITT-83-06] 03 p0421 N84-12756
On the performance of two-stage group screening experiments
[AD-A131970] 03 p0428 N84-12807
Hydrodynamic simulations of a combined hydrogen, helium thermonuclear runaway on a 10 km neutron star
[DE83-012658] 03 p0463 N84-13047
Simulations of galaxy mergers
03 p0464 N84-13054
Rotor systems research aircraft: Fixed-wing simulations results
[NASA-TM-85863] 04 p0483 N84-13176
CI: A computer program for calculation of contact indexes which will correct reaction rates evaluated by mean quantities during simulation of turbulent combustion
[DE84-001000] 04 p0494 N84-13244
Escape and rescue model 04 p0512 N84-13361
Fire modeling research at Factory Mutual
04 p0513 N84-13370
On smoke control experiments
04 p0514 N84-13379
A system for the simulation and evaluation of satellite communication networks
[NASA-TM-83531] 04 p0517 N84-13400
Energy consumption analysis of the Venus Deep Space Station (DSS-13) 04 p0519 N84-13413
Microwave generators: Oscillating virtual cathodes and reflexing electrons
[DE84-001346] 04 p0522 N84-13433
Propagation of a radio-frequency pulsed signal over the Earth. The JOLLY programs
[DE84-000109] 04 p0523 N84-13439
Development of a circulating zinc-bromine battery, phase 2
[DE84-001886] 04 p0527 N84-13463
Enhancement of the CAVE computer code — aerodynamic heating package for nose cones and scramjet engine sidewalls
[NASA-CR-3731] 04 p0532 N84-13501
Turbulent wall pressure simulation
[AD-A132297] 04 p0533 N84-13507

Calculation of natural convection within a heated enclosure using the method of second moments
[DE84-001596] 04 p0535 N84-13517
Analysis and modeling of photosynthetic bacterial hydrogen production plants
[DE84-000003] 04 p0570 N84-13758
Algorithms for automated diagnosis of faults in physical plant
[DE84-000192] 04 p0582 N84-13841
Simulation of shock-induced energy flux in molecular solids
[DE84-001157] 04 p0613 N84-14047
The effect of opacity on theoretical models of RR Lyrae stars 04 p0619 N84-14081
Three-dimensional implicit lambda methods
[NASA-CR-172264] 05 p0627 N84-14123
An analysis of the satellite kinematics model in the Naval Warfare Gaming System
[AD-A134039] 05 p0643 N84-14229
An evaluation of the broadband direction finding capabilities of array signal processing techniques 05 p0665 N84-14368
Study on extremizing adaptive systems and applications to synthetic aperture radars
[AD-A133945] 05 p0667 N84-14385
Range performance calculations using the NVEOL-Georgia Tech Research Institute 0.1- to 100-GHz radar performance model
[AD-A133881] 05 p0667 N84-14387
A simulation analysis of space-based and airborne moving platform radars in look-down clutter
[AD-A133813] 05 p0667 N84-14389
Statistical simulation of GaAs MESFETS
[AD-A133923] 05 p0674 N84-14426
Ultrasonic NDE of bonds in multilayered systems
[AD-A133619] 05 p0689 N84-14530
Study to synthesize and interpret data from several satellites and ground magnetometers
[AD-A132670] 05 p0703 N84-14616
Relevance of rock mechanics to gun propellants
[DE84-002010] 05 p0704 N84-14620
Three-dimensional magnetotelluric interpretation 05 p0706 N84-14632
Time lapse simulation of interrelated weather conditions
[AD-A133999] 05 p0708 N84-14639
Transport and diffusion of buoyant material
[AD-A132613] 05 p0708 N84-14642
Computer simulation of construction operations 05 p0718 N84-14704
Learning to program in LISP
[AD-A132611] 05 p0728 N84-14781
Enhancement and verification of the Navy CASEE model (Calendar year 1982 task)
[AD-A133077] 05 p0730 N84-14793
Analysis of a network structure for algorithm testing — communication networks
[FUB-1-1983] 05 p0732 N84-14804
On some issues concerning optimization and decision trees
[AD-A134109] 05 p0733 N84-14815
An investigation of cascade energy density effects using classical trajectory simulations of sputtering by molecular ions
[AD-A132539] 05 p0743 N84-14880
The effect of field index fluctuations on the dynamics of a high current electron ring in a modified betatron accelerator
[AD-A133089] 05 p0745 N84-14891
Computer aided construction of ground attack mission profiles over European terrain 06 p0772 N84-15060
A computer model for an imaging coherent laser radar
[FOA-C-30341-E] 06 p0826 N84-15388
Recent advances in variable speed electrical generator systems for large wind turbines
[DE84-001833] 06 p0830 N84-15404
The BLOW-3A: A theoretical model to describe transient two phase flow conditions in Liquid Metal Fast Breeder Reactor (LMFBR) coolant channels 06 p0843 N84-15497
Theoretical simulation of thermohydraulic behavior of sodium cooled subassemblies in steady state and transient conditions — liquid metal fast breeder reactors (LMFBR) 06 p0843 N84-15498
Computation of the thermohydraulics in subassemblies for accident situations — liquid metal fast breeder reactors (LMFBR) 06 p0843 N84-15499
Assessment of load-frequency-control impacts caused by small wind turbines
[DE82-011513] 06 p0872 N84-15677
Some effects of surface heating and topography on the regional severe storm environment 06 p0880 N84-15723
A numerical investigation of the formation of secondary vortices in laboratory-simulated tornadoes 06 p0880 N84-15725
A comparison of map learning methods: Map study, simulated travel and mixed
[AD-A133544] 06 p0892 N84-15794
Development of an interactive computer program to produce body description data
[AD-A133720] 06 p0897 N84-15822
On the fitting of Pearson curves to sums of independent random variables
[AD-A133153] 06 p0900 N84-15844
Fabrication and properties of multilayer structures
[NASA-CR-174506] 06 p0922 N84-15997
Logic simulator program 06 p0927 N84-16023
ISIS: A constraint-directed reasoning approach to job shop scheduling
[AD-A133296] 06 p0933 N84-16063
HYTESS: A hypothetical turbofan engine simplified simulation
[NASA-TM-83561] 07 p0954 N84-16184
A study of washout filters for a simulator motion base
[UTIAS-TN-246] 07 p0959 N84-16218
Computer simulation of two-dimensional impact tests on propellant
[DE84-002460] 07 p0981 N84-16356
Presentation of a new adaptive intraframe prediction procedure — television signals
[IND-FB-112] 07 p0994 N84-16448
A real-time, portable, microcomputer-based jet engine simulator
[NASA-TM-83550] 07 p1052 N84-16812
Some experiences with gasp-like microcomputer simulation languages in FORTRAN, Pascal, and Ada
[AD-A134543] 07 p1055 N84-16832
Large scale computations
[DE84-002763] 07 p1055 N84-16836
Path discrepancies between great circle and rhumb line
[NASA-TM-85522] 08 p1102 N84-17168
FM spectral modeling and FDM/FM simulation programs
[PB84-118934] 08 p1147 N84-17469
Radially resolved simulation of a high-gain free electron laser amplifier
[DE84-003751] 08 p1165 N84-17585
Advanced photovoltaic system simulator to demonstrate the performance of advanced photovoltaic cells and devices
[DE83-009405] 08 p1180 N84-17688
Summary of earthquake intensity file: A computerized file of the effects of earthquakes in the United States
[PB84-101443] 08 p1189 N84-17745
Preparing meteorological data for use in routine dispersion calculations: Workgroup summary
[PB84-119890] 08 p1193 N84-17774
RADC (Rome Air Development Center) DDP (Distributed Data Processing) topology evaluation
[AD-A134701] 08 p1212 N84-17909
A study of nucleation and growth of thin films by means of computer simulation: General features
[NASA-TM-83559] 08 p1222 N84-17982
Numerical simulations of the NRL collective particle accelerator
[AD-A135533] 08 p1228 N84-18028
Numerical simulation of transonic flutter of a high-aspect-ratio transport wing
[NAL-TR-776T] 09 p1257 N84-18206
Comparison of the longitudinal flying qualities of an optimal pilot model, a ground-based simulator and an airborne simulator
[AD-A135853] 09 p1259 N84-18218
Development of a flight simulation concept and aerodynamic buildup for investigation of departure prevention systems in tactical aircraft
[AD-A136182] 09 p1259 N84-18221
ACOSS eleven (Active Control Of Space Structures), volume 2
[AD-A135676] 09 p1273 N84-18312
Interactive communication systems simulation model (ICSSM) extension
[AD-A135704] 09 p1302 N84-18509
Multipole monolithic Surface Acoustic Wave (SAW) resonator filters
[AD-A136123] 09 p1309 N84-18561
Time dependent, compressible simulations of shear flows: Tests of outflow boundary conditions
[AD-A136410] 09 p1314 N84-18587
Effects of long-term low-level radiofrequency radiation exposure on rats. Volume 2: Average SAR and SAR distribution in man exposed to 450-MHz RFR
[AD-A135455] 09 p1361 N84-18891
A comparison of random balance and two-stage group screening designs, part 1
[AD-A136487] 09 p1376 N84-18984
A time domain analysis of a rigid two-bladed fully gimballed helicopter rotor with circulation control
[AD-A136947] 10 p1422 N84-19296
Suboptimal missile evasion through a sensitivity analysis of proportional guidance to target evasion maneuvers
[AD-A136803] 10 p1428 N84-19338
Design criteria for reducing popping in area-of-interest displays: Preliminary experiments
[AD-A136769] 10 p1430 N84-19351
Parallel processor engine model program
[NASA-CR-174641] 10 p1431 N84-19353
Predictor displays as training aids in carrier landings
[AD-A136643] 10 p1433 N84-19367
Design, selection and simulation of air conditioning systems by computer. Part 3: Program data preparation and reference manual
[CSIR-ME-1465-PT-3] 10 p1471 N84-19604
Computerized simulation of multipath fading for mobile radio systems 10 p1477 N84-19647
Manufacturing in space: Fluid dynamics numerical analysis
[NASA-CR-175401] 10 p1491 N84-19748
Finite element simulation of viscous incompressible flows
[DE84-004355] 10 p1494 N84-19769
LINUS, a line-selective equipment for AGA thermovision
[FOA-C-30348-E4] 10 p1500 N84-19802
High pressure oxygen turbopump bearing cage stability analyses — space shuttle main engine
[NASA-CR-170991] 10 p1502 N84-19815
CYBER 200 Applications Seminar
[NASA-CP-2295] 10 p1558 N84-20206
Computer simulations of space-borne meteorological systems on the CYBER 205 10 p1558 N84-20210
Ocean modelling on the CYBER 205 at GFDL 10 p1559 N84-20212
Memory efficient solution of the primitive equations for numerical weather prediction on the CYBER 205 10 p1559 N84-20213
Computer simulation of protein systems 10 p1559 N84-20214
VLSI circuit simulation using a vector computer 10 p1559 N84-20215
A highly optimized vectorized code for Monte Carlo simulations of SU(3) lattice gauge theories 10 p1560 N84-20219
Three-dimensional flow over a conical afterbody containing a centered propulsive jet: A numerical simulation 10 p1560 N84-20222
Design of experiments in simulation
[AD-A137229] 10 p1562 N84-20236
SIMTBED: A graphical test bed for analyzing and reporting the results of a statistical simulation experiment
[AD-A136812] 10 p1563 N84-20243
DARK: A computer based system for simulating the potential hazards from releases of pressurized gases
[FOA-C-40183-C2] 10 p1565 N84-20255
Operating system for a real-time multiprocessor propulsion system simulator
[NASA-TM-83605] 10 p1566 N84-20258
Extending grammars to new domains
[AD-A137110] 10 p1567 N84-20266
Time-dependent Child-Langmuir diode simulation
[AD-A136964] 10 p1570 N84-20288
Description and analysis of PACAM 5 (Piloted Air Combat Analysis Model) as a tactical decision aid with a user's guide for operation at NPS
[AD-A136793] 10 p1574 N84-20313
Hybrid vehicle simulation
[AD-A136950] 10 p1594 N84-20445
Computer simulations of gravitational encounters between pairs of binary star systems 10 p1595 N84-20456
Theoretical studies of X-ray emission from supernova remnants and other non-equilibrium astrophysical plasmas
[NASA-CR-175394] 10 p1597 N84-20468
Development of a VOR/DME model for an advanced concepts simulator
[NASA-TM-85717] 11 p1604 N84-20505
A micro-computer based system to compute magnetic variation
[NASA-CR-173376] 11 p1604 N84-20506
Advanced numerics for multi-dimensional fluid flow calculations 11 p1610 N84-20539
Direct numerical simulation of reacting flows 11 p1611 N84-20549
Interactive computer modeling of combustion chemistry and coalescence-dispersion modeling of turbulent combustion 11 p1612 N84-20553
Space shuttle pilot-induced-oscillation research testing
[NASA-TM-86034] 11 p1615 N84-20566
NASA Aircraft Controls Research, 1983
[NASA-CP-2296] 11 p1615 N84-20567
A combinatorial geometry computer description of the M48A1 Chaparral missile system
[AD-A137262] 11 p1622 N84-20615

Bending of beams subjected to transverse impacts
[AD-A137840] 11 p1668 N84-20884
Computer simulation of phosphorus cycling in the sediment-water system of eutrophic lakes
[PB84-140573] 11 p1672 N84-20912
SANDUS MA164 digital data acquisition system specifications, November 8, 1982
[DE84-006502] 11 p1704 N84-21110
Data flow computer architecture
[DE84-004198] 11 p1704 N84-21111
TOPAZ: A computer code for modeling heat transfer and fluid flow in arbitrary networks of pipes, flow branches, and vessels
[DE84-006275] 11 p1709 N84-21142
An expected value air combat model simulation algorithm to predict missions performance in tactical air operations
[AD-A137651] 11 p1718 N84-21207
Computerised optical fibre characterisation
11 p1727 N84-21266
Atomic processes for modeling of inertial confinement fusion plasma 11 p1735 N84-21317
Monte Carlo study of ICRF start-up and sustained mode operation in tandem mirrors
[DE84-005806] 11 p1738 N84-21338
Enhancement and verification of the Navy CASEE (Comprehensive Aircraft Support Effectiveness Evaluation) model (calendar year 1983 task)
[AD-A138516] 12 p1764 N84-21505
Design of single component airfoils using an inverse boundary element method
[REPT-83-A2-SER-A] 12 p1765 N84-21512
Simulation analysis and derivation of accuracy requirements for future terminal area navigation. Part 2: Multi aircraft analysis
[BMFT-FB-W-83-036-PT-2] 12 p1769 N84-21536
The role of simulation in the development and flight test of the HIMAT vehicle
[NASA-TM-84912] 12 p1769 N84-21537
Simulation of a cockpit-display concept for executing a wake-vortex avoidance procedure
[NASA-TP-2300] 12 p1770 N84-21542
Development and flight test evaluation of an analytical model of the air-to-air tracking task
[AD-A138058] 12 p1772 N84-21555
The role of simulation in high technology missile applications
[AD-A136277] 12 p1778 N84-21601
Experimental study of powder production process using centrifugal atomization 12 p1785 N84-21644
Simulation of the ignition of a mixture of hydrogen and oxygen
[PML-1983-34] 12 p1790 N84-21676
Porous electrodes 1: Numerical simulation using random network and single pore models
[AD-A138362] 12 p1793 N84-21685
Modeling antennas near to and penetrating a lossy interface
[DE84-004785] 12 p1808 N84-21786
Air-to-ground HF (High Frequency) propagation prediction model for fast multicircuit computation
[PB84-145961] 12 p1810 N84-21802
Lubrication of engineering surfaces, phase 2
[DE84-006344] 12 p1822 N84-21878
Reliability analysis of multi-components systems
[AD-A138013] 12 p1824 N84-21890
Characterization of surface reflectance variation effects on remote sensing 12 p1832 N84-21944
Comparison of a simplified version of TRACKER with an analytic solution to a model ray tracing problem
[DE84-007091] 12 p1848 N84-22044
Research Review, 1983
[NASA-TM-86053] 12 p1850 N84-22049
Simulation studies of proposed observing systems and their impact on numerical weather prediction
12 p1850 N84-22050
Horizontal energy propagation in a baroclinic atmosphere with meridional and zonal structure
12 p1857 N84-22096
Simulations of the stratocumulus-topped boundary layer with a third-order closure model
12 p1857 N84-22098
Problems with the process partitioning theory of stratocumulus entrainment 12 p1857 N84-22099
Can cloud-top entrainment promote cloud growth?
12 p1857 N84-22100
An ensemble formulation of PBL fluxes in a GCM
12 p1858 N84-22102
A note on the temporal behavior of bucket hydrologies
12 p1858 N84-22103
The sensitivity of a general circulation model to Saharan dust heating 12 p1858 N84-22108
Global energy futures and CO2-induced climate change, appendices
[PB84-145903] 12 p1862 N84-22132
Solid modeling: History, status and current research directions 12 p1870 N84-22187
A unified data flow model for fault tolerant computers
[NASA-CR-173479] 12 p1877 N84-22230
Computer modeling of complete IC fabrication process
[AD-A136006] 12 p1879 N84-22247
Exploration of dose-response techniques with some applications to a simulation problem
[AD-A136029] 12 p1880 N84-22252
Grid-based line drawing quantization
[AD-A136503] 12 p1884 N84-22278
Implementation of a stand alone FORTRAN version of the TOPSIM simulation package — communication systems analysis
[ESA-CR(P)-1825] 12 p1884 N84-22284
Employment of adaptive learning techniques for the discrimination of acoustic emissions
[AD-A136142] 12 p1899 N84-22366
Gas filled dynamics for laser driven fusion reactors
[DE84-005181] 12 p1910 N84-22444
The design and operational development of self-streamlining 2-dimensional flexible walled test sections
[NASA-CR-172328] 13 p1926 N84-22534
A Generalized Escape System Simulation (GESS) computer program: GESS user's guide, version 2, volume 1
[AD-A136844] 13 p1928 N84-22545
Model identification and parameter estimation of the power, lift, and drag of light aircraft from a single maneuver 13 p1930 N84-22552
Determination of compressor in-stall characteristics from engine surge transients
[NASA-TM-83639] 13 p1932 N84-22566
La Recherche Aerospatiale, Bimonthly bulletin, number 1983-4, 215/July-August
[ESA-TT-823] 13 p1935 N84-22589
Dynamics analysis of electrodynamic satellite tethers. Equations of motion and numerical solution algorithms for the tether
[NASA-CR-171777] 13 p1937 N84-22598
Atmospheric turbulence simulation for Shuttle orbiter
[NASA-CR-171013] 13 p1938 N84-22602
Computerized static firing analysis techniques of solid propellant rocket motors 13 p1944 N84-22641
Estimation of local stress intensity in flanged thin-wall shell structures under heavy thermal load
13 p1972 N84-22799
Balancing of flexible rotors with simultaneous precise determination of influencing factors
13 p1974 N84-22808
State-space structures for the realization of low roundoff noise digital filters 13 p1987 N84-22900
Parametric and nonparametric Fast Kalman echo cancellation 13 p1987 N84-22901
Nonlinear/transient rotor dynamics analysis
13 p2000 N84-22977
Linear dynamics of cables and chains
13 p2000 N84-22978
CASE (Computer-Aided Structural Engineering) study of 6 major general-purpose finite element programs
[AD-A139065] 13 p2001 N84-22986
Analysis of production data from the Krafla geothermal field, Iceland
[DE84-006881] 13 p2006 N84-23014
Generating capacity of the Heber geothermal field, California
[DE84-006883] 13 p2009 N84-23030
Calm ionospheric dynamo. Part 1: Simulations carried out in 1961
[CRPE-NT-112-PT-1] 13 p2012 N84-23055
Some comparisons between NVL and oracle-based MRTD approaches — vision models
[BAE-BT-11240] 13 p2020 N84-23096
Modeling of inhalation administration of vapors with capacity limited clearance
[AD-A138847] 13 p2020 N84-23098
Some observations on relative approaches to visual acquisition modelling
[BAE-BT-11241] 13 p2021 N84-23104
Disturbance minimization techniques for linear, time-invariant dynamical systems
[AD-A138915] 13 p2033 N84-23185
Bifurcation of map resonance 1 : 4
[MC-TW-245/83] 13 p2035 N84-23204
French ONERA acquires U.S. supercomputer for research 13 p2038 N84-23226
A dynamic personnel assignment model in the R and D environment
[AD-P002765] 13 p2052 N84-23312
An application of the causal-integrative model
[AD-P002786] 13 p2056 N84-23333
Employment changes resulting from the award of contracts in labor surplus areas
[AD-P002834] 13 p2063 N84-23379
Martian paleoclimate 13 p2072 N84-23427
MM-wavelength measurements of CO in the atmosphere of Mars and SO2 in the atmosphere of Venus
13 p2072 N84-23429
Recent developments in store separation and grid survey techniques using the ARA Two-Sting Rig
14 p2099 N84-23595
A self-contained captive trajectory system for a blowdown wind tunnel 14 p2099 N84-23596
The accelerated light model technique of store separation as developed and used at British Aerospace, Brough 14 p2099 N84-23597
Vortical flow exploration methods developed for the F1 wind tunnel 14 p2099 N84-23598
Recent developments in the measurement of time-dependent pressures 14 p2100 N84-23601
Effect of aerodynamic and angle-of-attack uncertainties on the blended entry flight control system of the Space Shuttle from Mach 10 to 2.5
[NASA-TP-2283] 14 p2110 N84-23652
Engineering calculations for communications satellite systems planning
[NASA-CR-173532] 14 p2113 N84-23662
Pershing II simulation studies. Debris dynamics and 2.75 rocket 6-DOF (Degree Of Freedom)
[AD-A139130] 14 p2113 N84-23663
Automated rendezvous and docking: A parametric study
[NASA-TP-2314] 14 p2115 N84-23677
Computer applications to geotechnical engineering
[AD-A139271] 14 p2134 N84-23789
Users' manual for computer program for three-dimensional analysis of coupler-cavity traveling wave tubes
[NASA-CR-168269] 14 p2141 N84-23841
Nonlinear interactions between the pumping kinetics, fluid dynamics and optical resonator of CW fluid flow lasers
[AD-A139189] 14 p2150 N84-23882
Wave engine technology development
[AD-A139175] 14 p2155 N84-23911
Application of remote sensing to state and regional problems
[E84-10128] 14 p2168 N84-23986
The transfer function model: A computer program for determination of jet engine test cell exhaust particulates and opacity
[AD-A139222] 14 p2173 N84-24017
Three-dimensional computer modeling of dynamic reconnection in the magnetotail
[DE84-007480] 14 p2176 N84-24037
A spatial model of wind shear and turbulence for flight simulation
[NASA-TP-2313] 14 p2178 N84-24044
EPA (Environmental Protection Agency) complex terrain model development description of a computer data base from small hill impaction study no. 1, Cinder Cone Butte, Idaho
[PB84-161439] 14 p2182 N84-24072
Profs' Doppler radar data processing system. Part 1: Design and implementation with application to NEXRAD algorithms
[PB84-165224] 14 p2182 N84-24073
FINDIF: A software package to create synthetic seismograms by finite differences
[AD-A138904] 14 p2183 N84-24081
User's guide for COMBIMAN programs (Computerized Biomechanical Man-Model), version 6
[AD-A139139] 14 p2184 N84-24086
A Unified Model of Attention and Problem Solving
[AD-A138787] 14 p2186 N84-24097
Flight simulation investigations for the problem of flyability of noise optimal approach and takeoff paths
[IFD-3/83] 14 p2221 N84-24329
Computer modeling of fast collisionless reconnection
[DE84-006714] 14 p2229 N84-24367
Study of generalized toroidal cusp configurations
[DE84-006662] 14 p2229 N84-24369
Comparison of free-piston Stirling engine model predictions with RE1000 engine test data
[NASA-TM-83650] 14 p2249 N84-24509
A vectorized finite element method for computation of transonic tridimensional potential flows
[SNIAS-832-111-105] 15 p2257 N84-24555
Optimal cooperative control synthesis applied to a control-configured aircraft
[NASA-CR-170411] 15 p2264 N84-24593
Verification and validation techniques applied to the reconfigurable block SD satellite software
15 p2269 N84-24626
Computer simulated development of a command to Line-of-Sight missile using on-off control
[AD-A140041] 15 p2280 N84-24697
Analysis of electrophoresis performance
[NASA-CR-171034] 15 p2286 N84-24716

Simulation of shock-induced energy flux in molecular solids, revision 1
[DE84-008331] 15 p2304 N84-24827
Stochastic simulation of creep behavior
15 p2316 N84-24899
Transmission loss calculations for systems with antennas close to the ground using a digital data base
[LFD-218] 15 p2318 N84-24914
A passively controlled appendage deployment system for the San Marco D/L spacecraft
15 p2347 N84-25081
Environmental modeling under uncertainty: Monte Carlo simulation
[IIASA-RR-83-28] 15 p2365 N84-25192
Psychological research on advanced terrain representation: Formatting the visual material
[AD-A139782] 15 p2382 N84-25288
The SIFT code specification 15 p2387 N84-25316
The proof of the SIFT implementation
15 p2387 N84-25317
The use of a formal simulator to verify a simple real time control program 15 p2388 N84-25322
Real-time simulation in a terrain model: Mathematical description
[FOA-C-56041-H2] 15 p2390 N84-25343
Research on factor screening in computer simulation
[AD-A139625] 15 p2392 N84-25353
Implementation of the sign-logarithm arithmetic FFT
[AD-A139355] 15 p2396 N84-25373
Switching net models: Rudimentary behavior, representations and applications
[AD-A140047] 15 p2398 N84-25391
Computer optimization of a linac injector trajectory
[DE84-005034] 15 p2408 N84-25456
Plasma physics issues in advanced simulation research
[AD-A139628] 15 p2410 N84-25465
CLARIFY: An on-line guide for revising technical prose
[N-2037-RC] 15 p2417 N84-25509
Distributed and decentralized control in fully distributed processing systems
[AD-A140120] 15 p2418 N84-25520
Electric vehicle modeling and simulation
[AD-A139719] 15 p2420 N84-25535
A hardware/software simulation for the video tracking system of the Kuiper Airborne Observatory telescope
[NASA-TM-85896] 15 p2424 N84-25562
Spatial distribution of craters on the Moon and Callisto
15 p2426 N84-25574
SAMICS: Engineering/economic model to predict costs 15 p2430 N84-25591
Introduction and review of some jet interference phenomena relevant to V/STOL aircraft
16 p2436 N84-25626
Experimental modal analysis
[SNIAS-832-210-110] 16 p2440 N84-25655
Computational techniques for hypersonic flows
16 p2442 N84-25666
System concepts for helicopter air-to-air combat
[SNIAS-832-210-102] 16 p2448 N84-25705
Direct simulations of chemically reacting turbulent mixing layers
[NASA-CR-174640] 16 p2450 N84-25710
Development of dynamic simulation of TF34-GE-100 turbofan engine with post-stall capability
[NASA-TM-83660] 16 p2450 N84-25712
VTOL shipboard letdown guidance system analysis
[NASA-CR-166519] 16 p2451 N84-25716
Computer program to simulate digital computer based longitudinal flight control laws in a high performance aircraft
[AD-A140143] 16 p2451 N84-25719
Study of ERS-1 dynamic interaction. Volume 1: Theoretical notes
[ER-RP-A1-002-VOL-1] 16 p2456 N84-25747
Applying molecular dynamics to fracture
[AD-P003104] 16 p2467 N84-25809
Installation and evaluation of SPLICE
[AD-A140170] 16 p2484 N84-25933
Numerical simulation of a three-dimensional chemical laser flow field including radiation produced by laser induced fluorescence 16 p2498 N84-26026
Revisions to the PETROS 4 shell response code
[AD-A140268] 16 p2502 N84-26059
Hydrologic simulation program. FORTRAN: Development, maintenance and application
[PB84-168418] 16 p2511 N84-26114
Measured versus predicted performance of the SERI test house: A validation study 16 p2513 N84-26128
Status of the class A performance evaluation program
16 p2514 N84-26134
Improvement of flat plate collectors for solar energy conversion
[BMFT-FB-T-84-042] 16 p2519 N84-26167
Potential barriers and multiple roots in spacecraft charging
[AD-P002117] 16 p2524 N84-26203
Polar code development
[AD-P002122] 16 p2524 N84-26208
High voltage solar array models and Shuttle tile charging
[AD-P002123] 16 p2525 N84-26209
Sheath shapes: A 3-D generalization of the Child-Langmuir sheath model for large high-voltage space structures in dense plasmas
[AD-P002124] 16 p2525 N84-26210
Summary of experimental results
[AD-P002126] 16 p2525 N84-26212
Requirements for validating system models
[AD-P002128] 16 p2525 N84-26214
The development of a bidirectional multi-speed impact model of the adult human thorax
16 p2535 N84-26273
ACSL (Advanced Continuous Simulation Language) simulation of a third order Butterworth filter using implementations derived from both Z and S domain representations
[AD-A140302] 16 p2545 N84-26335
Simulation experiments with goal-seeking adaptive elements
[AD-A140295] 16 p2546 N84-26343
Transponder optimization by computer simulation
[MBB-UR-617-83-O] 16 p2563 N84-26445
On validation of mission software by closed-loop testing in realtime
[MBB-UA-770-83-O] 16 p2563 N84-26446
Real-time simulation of an automotive gas turbine using the hybrid computer
[NASA-TM-83593] 16 p2569 N84-26484
Spectroscopy of the 4.6 - 4.7 micron interstellar absorption features 16 p2570 N84-26492
TOPEX orbital radiation study
[NASA-TM-85447] 16 p2582 N84-26562
Visual perception through windscreens: Effects of minor occlusions and haze on operator performance
[AD-P003223] 17 p2596 N84-26636
Validation of the MAGNA (Materially and Geometrically Nonlinear Analysis) computer program for nonlinear finite element analysis of aircraft transparency bird impact
[AD-P003229] 17 p2596 N84-26642
MAGNA (Materially and Geometrically Nonlinear Analysis) computer simulation of bird impact on the F-15 aircraft canopy
[AD-P003230] 17 p2597 N84-26643
Control of separated flowfields using forced unsteadiness 17 p2598 N84-26654
Airfield delay simulation model (ADSIM) users guide
[PB84-171552] 17 p2611 N84-26715
Evaluation of characteristics of system of space-time processing of signals by statistical simulation method
17 p2633 N84-26845
Modeling and simulation of lead-acid batteries for photovoltaic systems 17 p2722 N84-27326
Revision and experimental verification of the hazard assessment computer system models for spreading, movement, dissolution, and dissipation of insoluble chemicals spilled onto water, volume 1
[AD-A140635] 17 p2724 N84-27337
A brief history of the use of simulation techniques in training and performance assessment
[AD-A140763] 17 p2746 N84-27437
Assessment of techniques for evaluating computer systems for Federal Agency procurements
[PB84-176494] 17 p2756 N84-27496
A simulation model to evaluate aircraft survivability and target damage during offensive counterair operations
[AD-A141324] 18 p2793 N84-27728
Evaluation of HIMAT aircraft landing approach lateral control gearing using simulation and a visual display
[NASA-TM-84916] 18 p2796 N84-27743
Development situation for guiding systems
18 p2797 N84-27747
Simulation of electromagnetic instabilities of high-voltage gaps
[DE84-010624] 18 p2812 N84-27851
Proc. of a Course of Lectures and Computer Workshops on Computer Simulation of Multi-Phase Flows
[CFD/83/4] 18 p2838 N84-28012
Computer simulation of the effects of transmission-averaging in microdensitometry
18 p2843 N84-28056
Shell shock structural code, fourth edition
[DE84-009549] 18 p2853 N84-28118
A computer simulation to predict target identification latencies
[AD-P003272] 18 p2907 N84-28437
Terrain travel simulation: Data and application
[AD-P003359] 18 p2912 N84-28472
Elliptical orbit performance computer program
[NASA-CR-165832] 18 p2920 N84-28515
Simulation algorithms for parallel processes — computerized simulation
[CSC-1023/00-FIN] 18 p2921 N84-28527
Monte Carlo studies of tandem mirror plasmas interacting with waves in the Ion Cyclotron Range of Frequencies
[DE84-008901] 18 p2934 N84-28605
Numerical simulation of boundary-layer transition
[NASA-TM-85984] 19 p2958 N84-28746
A numerical simulation of three-dimensional flow in an adaptive wall wind tunnel
[NASA-TP-2351] 19 p2958 N84-28750
A SLAM (Simulation Language for Alternative Modeling) airfield model for airlift operations
[AD-A141106] 19 p2960 N84-28762
Integrated Application of Active Controls (IAAC) technology to an advanced subsonic transport project: Current and advanced act control system definition study. Volume 2: Appendices
[NASA-CR-165631-VOL-2] 19 p2967 N84-28803
Analysis of SSME HPOTP rotordynamics subsynchronous whirl
[NASA-CR-171094] 19 p2983 N84-28900
Research in computer simulation of integrated circuits
[AD-A141855] 19 p3013 N84-29101
A numerical simulation of the dispersal of aerial sprays
[NASA-CR-165816] 19 p3020 N84-29151
Computer modeling of pulsed chemical lasers
[AD-A141889] 19 p3029 N84-29212
Two-dimensional computer simulation of EMVJ and grating solar cells under AMO illumination
19 p3044 N84-29313
The transient gravity wave critical layer
[AD-A141095] 19 p3053 N84-29377
Elliptic solvers for Mediterranean Sea ocean modeling
[AD-A142306] 19 p3062 N84-29429
Digital systems design language. Design synthesis of digital systems
[NASA-CR-162032] 19 p3073 N84-29499
Automated Q-GERT source code generation using computer aided design
[AD-A141127] 19 p3075 N84-29509
Simulated 3-dimensional computer graphics training display for air weapons controllers. Volume 2: Users guide
[AD-A141336] 19 p3075 N84-29510
Simulated 3-dimensional computer graphics training display for air weapons controllers, volume 1
[AD-A141347] 19 p3075 N84-29511
Error in CALSPAN 3-dimensional crash vehicle simulation computer program for the case of massless segments
[AD-A141783] 19 p3078 N84-29528
Simulation program for central helium liquefier
[DE84-009866] 19 p3079 N84-29539
Application of the direct simulation Monte Carlo method to mass spectrometer flow
[AD-A142326] 19 p3094 N84-29647
Adaptive modeling and real-time simulation
[AD-A141648] 19 p3095 N84-29656
Air Force Academy Aeronautics Digest
[AD-A142399] 20 p3125 N84-29649
Interference drag in a simulated wing-fuselage juncture
[NASA-CR-3811] 20 p3126 N84-29653
Definition and layout of a traffic generator for an air traffic control simulation
[DFVLR-FB-84-15] 20 p3128 N84-29662
Improved pilot model for application to a computer flight testing program for helicopters
[NLR-MP-83052-U] 20 p3129 N84-29669
Heat transfer and oil flow studies on a single-stage-to-orbit control-configured winged entry vehicle
[NASA-TM-85833] 20 p3133 N84-29697
A computer model for evaluation of launch vehicle and target tracking error assignments for direct ascent, deep space ASAT (Anti-satellite) systems
[AD-A141136] 20 p3134 N84-29698
Recent applications of the CONTAM 3 computer model to spacecraft propulsion systems
20 p3137 N84-29916
Simulation of powder distribution in IITRI bag experiments
[AD-A141941] 20 p3170 N84-30128
Dynamic powder compaction
[DE84-006133] 20 p3170 N84-30132
A computer model for a multiple high PRF pulse Doppler radar
[AD-A142357] 20 p3173 N84-30152
The missing cone problem in computer tomography and a model for interpolation in synthetic aperture radar
[AD-A142421] 20 p3174 N84-30157

Computer-generated movie on the short pulse electromagnetic behavior of wire objects
[DE84-012032] 20 p3175 N84-30162
Evaluation of the attenuation length of a scintillator by means of a computer simulation of the light collection efficiency in long scintillation counters
[NOTA-INTERNA-.20] 20 p3176 N84-30169
INFIL1D: A quasi-analytical model for simulating one-dimensional, constant flux infiltration
[DE84-008905] 20 p3187 N84-30250
Computer simulation of the Lasertron
[DE84-012242] 20 p3194 N84-30267
Investigation of laminar shocks
[DE84-010074] 20 p3242 N84-30582
Analysis of computer interactive tests for assigning helicopter pilots to different missions
[AD-A142434] 20 p3262 N84-30696
Bond graph time simulations using extracted modal parameters from the Nova spaceframe
[DE84-010916] 20 p3273 N84-30779
WC user's guide
[DE84-009242] 20 p3274 N84-30784
Intelligent optical design program
[DE84-010071] 20 p3279 N84-30813
A high current heavy ion beam transport experiment at LBL
[DE84-009225] 20 p3294 N84-30912
Monte Carlo simulation of the microcanonical ensemble
[DE84-010880] 20 p3295 N84-30923
Optical support Hartmann sensor optical simulation
[AD-A142525] 20 p3300 N84-30955
Realistic modelling of lower hybrid current drive with multiple codes
[DE84-010576] 20 p3304 N84-30982
Computer simulation studies of sputtering and multimer formation from clean and oxygen reacted surfaces of titanium, vanadium and niobium
[AD-A141998] 20 p3308 N84-31009
Potential application of artificial concepts to aerodynamic simulation
[NASA-TM-85976] 21 p3324 N84-31093
Fuel conservative guidance concept for shipboard landing of powered-lift aircraft
[NASA-TM-85971] 21 p3344 N84-31215
Optimal low-thrust transfers to geosynchronous orbit
21 p3348 N84-31240
Optimization of the capture process for a rigid satellite stabilized by gravity gradient
[INPE-3184-PRE/549] 21 p3349 N84-31245
Evaluation of the effect of crack closure on fatigue crack growth of simulated short cracks
[NASA-TM-83778] 21 p3365 N84-31348
Development of a computer-assisted simulation of tactical voice communications. Phase 1: Conceptual design
[AD-A143036] 21 p3386 N84-31492
Operational parameters of a 2.0-MeV RFQ linac
[DE84-011368] 21 p3387 N84-31498
RFQ simulation code
[DE84-011385] 21 p3387 N84-31499
CALTECH-DOE program on numerical analysis, computing and fundamental studies of motion, energy and mass transfer in fluids
[DE84-008935] 21 p3401 N84-31572
A numerical simulation of heat transfer in evaporative cooling towers
[DE84-901142] 21 p3402 N84-31580
Radial SI latches vibration test data review
[NASA-TM-86454] 21 p3412 N84-31638
Computer simulation of surface and film processes
[NASA-CR-173682] 21 p3419 N84-31682
Three-dimensional computer model for the atmospheric general circulation experiment
[NASA-CR-171109] 21 p3446 N84-31863
Modeling, control and simulation of three-dimensional robotic systems with application to biped locomotion
21 p3460 N84-31943
Specifying the behavior of concurrent systems
[NASA-CR-173839] 21 p3464 N84-31957
Continuation of research in computer simulation of integrated circuits
[AD-A143005] 21 p3465 N84-31970
Reentry analysis
[DE84-012640] 21 p3498 N84-32167
Real-time CGSI (Computer Generated Synthesized Imagery)-single pipeline processor
[AD-P003480] 21 p3512 N84-32247
Fiber optic helmet mounted display: A cost effective approach to full visual flight simulation
[AD-P003482] 21 p3512 N84-32249
Software progress tracking system
[AD-P003486] 21 p3513 N84-32255
Logistic support: A computer manufacturer's viewpoint
[AD-P003496] 21 p3514 N84-32262
Performance simulation for unit-memory convolutional codes with byte-oriented Viterbi decoding algorithm
22 p3573 N84-32630
Ku-Band rendezvous radar performance computer simulation model
[NASA-CR-171804] 22 p3576 N84-32650
HF prediction using adiabatic invariant theory
[AD-A143239] 22 p3576 N84-32652
A 1-dimensional disk model simulation for klystron design
[DE84-013793] 22 p3588 N84-32727
The design and performance of a parallel computer architecture for simulation 22 p3637 N84-33054
Monte Carlo estimation under different distributions using the same simulation
[DE84-012438] 22 p3649 N84-33136
Point response functions for unfilled optical arrays
[AD-A143384] 22 p3657 N84-33183
Computer simulation of the heavy-duty turbo-compounded diesel cycle for studies of engine efficiency and performance
[NASA-CR-174755] 22 p3676 N84-33306
Detailed system studies on rendezvous and docking. Part 1: Executive summary
[ESA-CR(P)-1894-PT-1] 23 p3697 N84-33428
A simulation of a satellite power supply system
[INPE-3140-TDL/166] 23 p3699 N84-33446
A review of micrometeoroid flux measurements and models for low orbital altitudes of the Space Station
[NASA-TM-86466] 23 p3700 N84-33455
Gallium arsenide field-effect transistor magnetic field studies
[AD-A144058] 23 p3742 N84-33721
Thermodynamic analysis of journal bearings operating under steady state loading in laminar regime
23 p3756 N84-33809
Simulation of Shuttle Imaging Radar (SIR)-B imagery over Freiburg test site 23 p3779 N84-33958
Preliminary investigations concerning a 90 GHz radiometer satellite experiment
23 p3781 N84-33978
Comprehensive silicon solar cell computer modeling
[NASA-CR-173953] 23 p3788 N84-34025
Advanced onboard storage concepts for natural gas-fueled automotive vehicles
[NASA-CR-174655] 23 p3790 N84-34036
Performance of passive solar and energy conserving houses in California
[SERI/STR-254-2017] 23 p3790 N84-34039
PCMSOL-1: A computer simulation code for a direct gain passive solar structure. Part 2: PCMSOL-1 users guide
[ORNL/CSD-127/P-2] 23 p3790 N84-34040
The so-called Wolff's law and the adaptation of bone to microgravity 23 p3808 N84-34145
Report of the working group on large-scale computing in aeronautics
[AGARD-AR-209] 23 p3813 N84-34177
Payload crew training complex simulation engineer's handbook
[NASA-TM-86465] 23 p3814 N84-34186
Objectives: Activities and needs of the digital simulation laboratory, attitude and orbit control systems, and the thermal control laboratory of the space mechanics and control department
[INPE-3174-RPE/459] 23 p3833 N84-34311
The simulation of a major Automated Information System (AIS) on a microcomputer
[AD-A143599] 23 p3834 N84-34323
Simulation applied to the avionics system testing in the F/A-18 24 p3849 N84-34409
Thirteenth Space Simulation Conference. The Payload: Testing for Success
[NASA-CP-2340] 24 p3861 N84-34468
The SCEPTRE facility: Improved simulation of the space environment through the application of advanced technology 24 p3862 N84-34474
Standardization in software conversion of (ROM) estimating 24 p3862 N84-34475
Introduction to simulation of upper atmosphere oxygen satellite exposed to atomic oxygen in low Earth orbit
24 p3863 N84-34479
Lamberton Robotics develops new robot to handle heavy loads 24 p3892 N84-34650
The Lincoln Laboratory-Aerospace Medical Research Laboratory digital speech test facility
[AD-A144303] 24 p3894 N84-34682
Numerical simulation of mesoscale precipitation
24 p3930 N84-34876
A technique to approximate complex computer models: An approximation of the Teisberg Model
[AD-P003855] 24 p3940 N84-34940
Evaluation of microcomputer energy analysis programs
[AD-A144684] 24 p3942 N84-34959
A model of the planetary nebula NGC 3918 based on IUE observations 24 p3978 N84-35195
Numerical simulations of collisions in self-gravitating systems 24 p3987 N84-35237

COMPUTERS

NT AIRBORNE/SPACEBORNE COMPUTERS
NT ANALOG COMPUTERS
NT CDC COMPUTERS
NT CDC CYBER 170 SERIES COMPUTERS
NT CDC CYBER 174 COMPUTER
NT CDC CYBER 175 COMPUTER
NT CDC CYBER 203 COMPUTER
NT CDC 6000 SERIES COMPUTERS
NT CDC 6600 COMPUTER
NT CDC 6700 COMPUTER
NT CDC 7600 COMPUTER
NT DIGITAL COMPUTERS
NT EMBEDDED COMPUTER SYSTEMS
NT HEWLETT-PACKARD COMPUTERS
NT HYBRID COMPUTERS
NT IBM COMPUTERS
NT MICROCOMPUTERS
NT MINICOMPUTERS
NT OPTICAL COMPUTERS
NT PARALLEL COMPUTERS
NT PDP COMPUTERS
NT PDP 8 COMPUTER
NT PDP 11 COMPUTER
NT PDP 11/70 COMPUTER
NT PERSONAL COMPUTERS
NT UNIVAC 1100 SERIES COMPUTERS
NT VAX-11 SERIES COMPUTERS
NT VAX-11/780 COMPUTER
A high-performance analog-to-digital conversion subsystem suitable for the study of evoked potentials, with design considerations for the eclipse $140 (trademark) computer
[AD-A130353] 01 p0071 N84-10461
China report: Science and technology, no. 208
[JPRS-84474] 01 p0118 N84-10766
Nationwide computer users' information retrieval system 01 p0118 N84-10767
S-1 uniprocessor architecture
[DE83-012344] 01 p0119 N84-10774
CAD/CAM: Influencing the skilled trades
[DE83-015188] 01 p0125 N84-10812
Use of desktop computers for data acquisition
[DE83-014277] 02 p0270 N84-11768
Bibliography of documents issued by the GAO (General Accounting Office) on matters related to ADP (Automatic Data Processing) January 1982 - December 1982
[PB83-238766] 02 p0273 N84-11788
Hardware and software configuration of the Doublet 3 diagnostic-data-acquisition computer system
[DE83-013427] 03 p0418 N84-12733
Development of a unique Physical Metrology Laboratory Recall System
[DE83-017415] 03 p0423 N84-12767
Computer-based training starter kit
[PB83-248815] 04 p0574 N84-13780
Symposium on Computers in Construction
[CSIR-S-285] 05 p0717 N84-14695
Computers for the smaller contractors
05 p0718 N84-14703
Department of Defense computer technology. A report to Congress
[AD-A132899] 05 p0720 N84-14716
A summary of the Naval Postgraduate School Research Program
[AD-A132871] 05 p0766 N84-15024
Acousto-optic/CCD real-time SAR data processor
07 p0969 N84-16410
Computer Science and Technology: Proceedings of the 19th Meeting of the Computer Performance Evaluation Users Group (CPEUG)
[PB84-114529] 08 p1210 N84-17892
Distributed processing tools definition. Volume 3: An integrated software engineering environment for distributed processing software development
[AD-A137688] 11 p1704 N84-21107
Computer communications with Mauna Loa Solar Observatory
[PB84-137256] 11 p1705 N84-21114
Operation of a computer aided drafting system: Improvement, results and hopes
[DE84-005176] 11 p1708 N84-21134
Cumulative reports and publications through 31 December 1983
[NASA-CR-172326] 12 p1876 N84-22226
CDC to CRAY FORTRAN conversion manual
[NASA-CR-166574] 12 p1879 N84-22243
Applications of multivariate statistical techniques for computer performance evaluation
[AD-A138268] 12 p1894 N84-22336
European Scientific Notes, volume 38, no. 3
[AD-A138163] 12 p1918 N84-22498

Human decisionmaking in dynamic environments with increasing information processing demands
[AD-P002884] 13 p1979 N84-22845
French ONERA acquires U.S. supercomputer for research 13 p2038 N84-23226
Standard for fire protection of DOE electronic computer/data processing systems
[DE84-007194] 14 p2135 N84-23793
A methodology for benchmarking relational database machines
[AD-A139104] 14 p2202 N84-24217
Air Force progress in implementing the phase 4 base level computer replacement program
[AD-A139378] 14 p2203 N84-24221
Human-computer interactions and decision behavior
[AD-A139759] 15 p2384 N84-25299
Panasonic HR-1800 hand-held computer solutions to composite materials formulas
[AD-A139798] 15 p2391 N84-25352
European scientific notes. Volume 38, Number 4
[AD-A140039] 15 p2416 N84-25506
Activities report of the Computer Department
[ENST-D-8303] 16 p2542 N84-26314
Survey of sensitivity analysis methodology
[PB84-166701] 16 p2552 N84-26375
CSTS: The software test system for the TORNADO auto pilot
[MBB-FE-325/S/PUB/118] 16 p2562 N84-26436
Leadership, managership, and computers in today's Air Force
[AD-P003351] 18 p2912 N84-28468
Digital interface for bi-directional communication between a computer and a peripheral device
[NASA-CASE-MSC-20258-1] 18 p2916 N84-28492
Review of the Third Biennial Conference on Real-Time Computer Applications in Nuclear and Particle Physics
[DE84-002457] 20 p3266 N84-30720
Characterization of real-time computers
[NASA-CR-3807] 20 p3277 N84-30801
A MIL-STD-1750A computer employing the MDAC (McDonnell Douglas Astronautics Corporation) CMOS-SOS chipset
[AD-P003550] 21 p3334 N84-31154
MIL-STD-1750A verification testing
[AD-P003555] 21 p3335 N84-31159
USSR report: Electronics and electrical engineering
[JPRS-UEE-84-008] 21 p3376 N84-31427
User's guide for ERB 7 matrix. Volume 1: Experiment description and quality control report for year 1
[NASA-CR-170619] 21 p3464 N84-31960
An evaluating report on the Institute for Computer Sciences and Technology, National Bureau of Standards, fiscal year 1983
[PB84-194802] 21 p3516 N84-32271
European scientific notes, volume 38, no. 5
[AD-A141713] 21 p3518 N84-32285
Terminal oversight: The editor and the word processor
[DE84-012648] 21 p3519 N84-32295
Research in computer science
[NASA-CR-173857] 22 p3637 N84-33056
East Europe report: Science and technology
[JPRS-ESA-84-035] 23 p3813 N84-34178
Implementation of monitors with macros: A programming aid for the HEP and other parallel processors
[ANL-83-97] 23 p3817 N84-34200
USSR report: Cybernetics, computers and automation technology
[JPRS-UCC-84-001] 24 p3940 N84-34942
Status of scientific research in field of computer technology in country's vuzes 24 p3940 N84-34943
Problems of improving management of use of computer technology in higher schools 24 p3940 N84-34944
Computers on the job 24 p3941 N84-34945
Rehosting the theorem prover
[AD-A144356] 24 p3946 N84-34987
Summaries of the FY 1983 applied mathematical sciences research program
[DOE/ER-0157/1] 24 p3950 N84-35010
East European report: Science and technology
[JPRS-ESA-84-031] 24 p3960 N84-35071
Selections on computer technology in CSSR: Computers yesterday and today 24 p3960 N84-35072
EC 1027 computer system 24 p3960 N84-35075
East Europe report: Science and technology
[JPRS-ESA-84-025] 24 p3960 N84-35077
CEMA computer cooperation, problems described: Application of British technology 24 p3960 N84-35078
R-35 computer shortcomings 24 p3961 N84-35080
Socialist countries cooperate in computer R and D 24 p3961 N84-35081
Comparative analysis of government and private sector ADP acquisition
[AD-A144523] 24 p3969 N84-35131

CONCATENATED CODES
Permanence analysis of a concatenated coding scheme for error control
[NASA-CR-175345] 07 p0991 N84-16422
The Telecommunications and Data Acquisition Report
[NASA-CR-173263] 10 p1473 N84-19621
Transfer function bounds for partial-unit-memory convolutional codes based on reduced state diagram 10 p1474 N84-19628
Simulations for full unit-memory and partial unit-memory convolutional codes with real-time minimal-byte-error probability decoding algorithm 10 p1474 N84-19629
Performance analysis of the word synchronization properties of the outer code in a TDRSS decoder
[NASA-CR-173551] 15 p2319 N84-24921
Cut-off rate calculations for the outer channel in a concatenated cooling system
[NASA-CR-173612] 16 p2541 N84-26312
On the undetected error probability of a concatenated coding scheme for error control
[NASA-CR-173613] 16 p2541 N84-26313
Probability of undetected error after decoding for a concatenated coding scheme
[NASA-CR-173837] 21 p3470 N84-31992
Undetected error probability and throughput analysis of a concatenated coding scheme
[NASA-CR-173983] 24 p3945 N84-34977

CONCAVITY
Rays and modes on concave surfaces
[AD-A131411] 02 p0210 N84-11371
Local measurements of turbulent boundary layer heat transfer on a concave surface using liquid crystals 02 p0221 N84-11451
Convexity and concavity properties of the optimal value function in parametric nonlinear programming
[AD-A138202] 12 p1881 N84-22264
Generalized convexity and concavity properties of the optimal value function in parametric nonlinear programming
[AD-A138220] 12 p1882 N84-22265
Separation flow at concave conical wings 17 p2647 N84-26933

CONCENTRATION
Optical effects of the gravitationally induced concentration gradient in tricritical 3He-4He
[DE84-009972] 23 p3830 N84-34297

CONCENTRATION (COMPOSITION)
NT ATMOSPHERIC MOISTURE
NT CARBON DIOXIDE CONCENTRATION
NT METEOROID CONCENTRATION
NT MOISTURE CONTENT
The part played by the skin in the denitration of metal during vacuum arc remelting
[BLL-M-35213-(5828.4)] 01 p0041 N84-10261
Features of determination of low concentrations of oxygen in steel by the electrochemical method
[BLL-M-35212-(5828.4)] 01 p0041 N84-10262
Microstructures of pulse-melted Fe-Ti-C alloys
[DE83-015213] 01 p0155 N84-11024
SAGUARO: A finite-element computer program for partially saturated porous flow problems
[DE83-015603] 02 p0219 N84-11438
Changes in blood urea content under hypokinetic conditions 02 p0260 N84-11703
Measurement and control of free calcium inside small intact cells 02 p0264 N84-11736
Process, product, and waste-stream monitoring with fiber optics
[DE83-001102] 03 p0441 N84-12899
Spectrographic investigation of gold by Grimm lamp
[CSIR-SR-283] 04 p0493 N84-13233
The effect of surface charge on the rheology of concentrated aqueous quartz suspensions
[CSIR-CENG-423] 04 p0493 N84-13235
Measurement of friction and wear on modified surfaces
[AD-A132364] 04 p0544 N84-13583
Design and development of a high-concentration and high-effieciency photovoltaic concentrator using a curved Fresnel lens
[DE84-000967] 04 p0558 N84-13679
Identification and characterization of elastomer vulcanizate materials using pyrolytic gas liquid phase chromatography
[AD-A134056] 05 p0658 N84-14325
Influence of alloying on the properties of nickel in the solid and liquid states
[BLL-M-35284-(5828.4)] 06 p0803 N84-15232
Methodology for the objective validation of model performance, with an application to atmospheric transport models
[DE83-015693] 06 p0875 N84-15693
Climate-chemistry connection
[DE84-001950] 06 p0882 N84-15739
Proceedings of the 3rd Tripartite Conference on Submarine Medicine: France, United Kingdom and the United States
[AD-A133150] 06 p0889 N84-15777
Partial analysis of Insta-Foam 06 p0928 N84-16030
Small solute concentration differences determined by interferometry
[CSIR-CENG-424] 07 p0969 N84-16278
Coaxial measurement of the translational distribution of CS produced in the laser photolysis of CS2 at 193nm
[AD-A134613] 07 p0970 N84-16286
A system for measuring fluxes of trace gases to and from soil and vegetation with a chamber technique
[CM-61] 07 p1028 N84-16662
Technique for the rapid generation of OH radicals behind shock waves and its application to the study of combustion kinetics
[DE84-003183] 08 p1126 N84-17317
The practical use of data as to the solution enthalpies of molten Fe-V-Si
[BLL-M-35430-(5828.4)] 08 p1129 N84-17342
Effect of specimen size and nickel content on the impact properties of 12 Cr-1 MoVW ferritic steel
[DE84-003270] 08 p1134 N84-17377
Laser diagnostic development and measurement and modeling of turbulent flowfields of jets and wakes. Part 3: The development of a 2-channel CW Time-Resolved Laser Raman Spectroscopy (TILaRS) system for measurements in gas flowfields
[AD-A134693] 08 p1159 N84-17544
Sea salt aerosol, atmospheric radon and meteorological observations in the western South Atlantic Ocean (February 1981)
[AD-A134792] 08 p1195 N84-17794
Fast diffusion of iron in single crystal rutile and iron doped rutile
[DE84-004021] 08 p1236 N84-18079
Prototype chemiluminescent analyzer for measurement of hydrazines and nitrogen dioxide
[AD-A135622] 09 p1279 N84-18354
Precipitation in rapidly solidified Al-Mn alloys
[AD-A136128] 09 p1284 N84-18385
Mechanism of shoot gravitropism 09 p1352 N84-18836
Excitonic solids
[AD-A135972] 09 p1396 N84-19115
Temporal and spatial gaseous HCl concentrations in the near field STS postlaunch environment, Kennedy Space Center, Florida
[AD-A136935] 10 p1532 N84-20032
Relationship between global fossil-fuel consumption and the concentration of carbon dioxide in the atmosphere, part 1
[PB84-123413] 10 p1532 N84-20036
Shot noise limited detection of OH using the technique of laser induced fluorescence
[NASA-CR-175433] 11 p1662 N84-20844
Relation of urban model performance to stability
[PB84-130418] 11 p1676 N84-20940
High temperature oxide electrolytes for the splitting of water. The ROC process 11 p1740 N84-21351
A theoretical analysis of the influence of crack dimensions and geometry on mass transport in corrosion fatigue cracks
[NPL-DMA(A)-69] 12 p1825 N84-21897
A method for evaluating the surface concentrations of 2 like-charged ions simultaneously adsorbed at an electrode-solution interface
[AD-A139074] 13 p1957 N84-22724
Prediction of atmospheric flow and dispersion over sloping terrain 13 p2012 N84-23056
Chemistry of processible acetylene-terminated imides
[AD-A139417] 14 p2122 N84-23720
Intrinsic instabilities in homogeneously broadened lasers 14 p2235 N84-24411
Aerosol characteristics on the Alboran sea, 9-18 october 1982
[AD-A139892] 15 p2371 N84-25227
Atmospheric selenium
[CM-66] 17 p2728 N84-27366
Use of radial hemolysis method in gel for detection of antibodies to Bunya virus Lednice (Turlock virus group) 17 p2741 N84-27403
An axiomatic theory of concentration and diversity — in biology
[NLR-MP-83015-U] 17 p2760 N84-27531
C1 K-edge X-ray absorption studies of concentrated ferric chloride solutions
[AD-A142190] 19 p2969 N84-28940
Definition of the concentration gradient above flammable liquids
[DE84-008296] 20 p3149 N84-29996

Measurements of dissolved gases at Corps of Engineers projects
[AD-A142727] 20 p3170 N84-30130
Stratospheric NO and NO2 profiles at sunset from analysis of high-resolution balloon-borne infrared solar absorption spectra obtained at 33 deg N and calculations with a time-dependent photochemical model
[NASA-TM-86285] 20 p3240 N84-30566
Calorimetric determination of the thermodynamic behavior of reversible liquid-phase reactions for use in energy storage
[DE84-010437] 21 p3507 N84-32218
Measurement of range-resolved water vapor concentration by coherent CO2 differential absorption lidar
[AD-A143594] 23 p3753 N84-33791

CONCENTRATORS
Fundamentals and techniques of nonimaging optics, volume 2
[DE83-015447] 03 p0442 N84-12902
Photovoltaic concentrators: Recent developments
[DE84-001641] 04 p0559 N84-13687
Development of a consensus standard for determining thermal performance of high-concentration-ratio solar collectors
[DE83-005129] 06 p0872 N84-15676
Concentration of sulphuric acid: Premature failure of Bamag pots
[MRL-R-865] 08 p1123 N84-17301
Linear Fresnel lens photovoltaic concentrator program
[DE84-002971] 08 p1180 N84-17689
Electrochemical carbon dioxide concentrator subsystem development
[NASA-CR-166538] 08 p1205 N84-17857
JPL tests of a LaJet concentrator facet
[NASA-CR-173470] 12 p1841 N84-22004
Materials and cells for high-efficiency solar-to-electric conversion
[DE83-011961] 12 p1843 N84-22015
Low-temperature IPH parabolic troughs: Design variations and cost-reduction potential
[DE84-000024] 12 p1843 N84-22016
Design optimization studies for nonimaging concentrating solar collector tubes
[DE84-001368] 12 p1843 N84-22017
A photovoltaic concentrator for 500 Wpk using a C50-Si generator and a glass-laminated metal membrane reflector
[BMFT-FB-T-84-050] 16 p2519 N84-26168
Proceedings of the Fifth Parabolic Dish Solar Thermal Power Program
[NASA-CR-173745] 18 p2871 N84-28224
Concentrator development 18 p2871 N84-28225
Parabolic Dish Concentrator (PDC-1)
18 p2871 N84-28226
Parabolic Dish Concentrator (PDC-2) development
18 p2871 N84-28227
A transmittance-optimized, point-focus Fresnel lens solar concentrator 18 p2871 N84-28228
Optical analysis of Cassegrainian point focus concentrators 18 p2872 N84-28229
Solar tests of aperture plate materials for solar thermal dish collectors 18 p2872 N84-28233
Non-DOE-sponsored domestic dish activities
18 p2872 N84-28234
Advanced solar power systems
18 p2872 N84-28235
Experimental natural convective studies within a compound parabolic concentrator enclosure
[DE84-006967] 19 p3025 N84-29184
Optimal design of GaAs-based concentrator space solar cells for 100 AMO, 80 deg C operation
19 p3044 N84-29312
Optimal design of high-efficiency single-junction and tandem concentrator space cells at 80 deg C and 100 SUNS 19 p3046 N84-29326
Development of a 30 percent efficient 3-junction monolithic cascade solar cell 19 p3047 N84-29328
Photovoltaic concentrators: Present status and future role
[DE84-005520] 20 p3235 N84-30532
Concentrating photovoltaic technology
[DE84-012275] 22 p3619 N84-32931
Solar energy concentrator system
[AD-D011149] 23 p3785 N84-34004

CONCENTRIC CYLINDERS
Complex eigenvalues for the stability of Couette flow
[NASA-CR-172251] 04 p0531 N84-13492
Two-fluid couette flow between concentric cylinders
[AD-A137969] 12 p1815 N84-21834
Flow and free surface of a non-Newtonian fluid between concentric cylinders maintained at unequal temperatures
15 p2315 N84-24893

CONCENTRIC SPHERES
Stresses in and around double confocal spheroids embedded in infinite media 15 p2314 N84-24883

CONCENTRICITY
Vibration-induced flux variation in the space between two concentric tubes
[BLL-CE-TRANS-7949-(9022.09)]
06 p0857 N84-15583

CONCORDE AIRCRAFT
The Concorde and aeronautical research
[NASA-TM-76973] 09 p1249 N84-18153

CONCRETE STRUCTURES
Study on small scale model tests for reinforced concrete structures- small scale model tests by using 3mm diameter deformed re-bars
[PB83-224832] 01 p0059 N84-10390
Blunt-crack band propagation in finite-element analysis for concrete structures
[DE83-010726] 01 p0097 N84-10632
Creep and thermal effects in aging solids
[DE83-012673] 01 p0098 N84-10635
Analytical response of concrete structures subjected to high temperatures
[DE83-009625] 03 p0389 N84-12538
Evaluation of fabric interlayers
[PB83-253245] 05 p0664 N84-14363
Heron, volume 28, no. 1, 1983. Dynamic elasto-plastic model for reinforced concrete members
[PB84-109057] 08 p1172 N84-17635
Concrete tensile strength study
[PB84-101021] 08 p1172 N84-17637
Transducer for measuring the internal forces in the columns of a frame-wall reinforced concrete structure
[PB84-119494] 09 p1319 N84-18617
Evaluation of NASA structural analysis (NASTRAN) to predict the dynamic response of reinforced concrete
[AD-A137244] 10 p1517 N84-19929
Material certification and material-certification effectiveness
[PB84-143270] 12 p1804 N84-21762
Engineering fabrics in transportation construction
[PB84-144856] 12 p1804 N84-21763
Fixity of members embedded in concrete
[AD-A138862] 13 p1974 N84-22610
Dynamic response of concrete and concrete structures
[AD-A139294] 14 p2158 N84-23928
Tensile crack exposure tests. Statistical analysis of the long-term durability of series B beams
[AD-A141955] 20 p3201 N84-30335
Effects of bond deterioration on hysteretic behavior of reinforced concrete joints
[PB84-192020] 20 p3203 N84-30343
Local bond stress-slip relationships of deformed bars under generalized excitations: Experimental results and analytical model
[PB84-192848] 20 p3204 N84-30355
Interactive computer analysis methods for predicting the inelastic cyclic behaviour of structural sections
[PB84-192012] 20 p3205 N84-30358
Research Reports of the Faculty of Engineering, no. 31
[DEC/1983/31] 21 p3476 N84-32034
Considerations on deformable ability and ultimate strength of aseismic walls. Part 2: About the derivation of a formula on ultimate shearing stress of walls and its applied verification for some experimental results
21 p3477 N84-32042
Time-to-corrosion of reinforcing steel in concrete slabs. Volume 5: Calcium nitrite admixture or epoxy-coated reinforcing bars as corrosion protection systems
[PB84-195239] 22 p3565 N84-32578
Investigation and rehabilitation to extend service life of DSS-13 antenna concrete foundation
22 p3574 N84-32637

CONCRETES
Ultraviolet curable resin system for rapid runway repair
[AD-A130364] 01 p0016 N84-10104
Sulfur extended asphalt pavement evaluation: Executive summary
[PB83-205971] 01 p0058 N84-10381
Interface bonding of shotcrete reinforced brick masonry assemblages, volume 1
[PB83-223206] 01 p0058 N84-10382
Interface bonding of shotcrete reinforced brick masonry assemblages. Volume 2: Appendices
[PB83-223214] 01 p0059 N84-10383
Prestressed pavement accelerated testing program
[PB83-225763] 01 p0059 N84-10385
Evaluation of innovative concepts relating to prestressed concrete pavements, volume 5
[PB83-222349] 01 p0059 N84-10386
Short-term mechanical properties of high-strength light-weight concrete 01 p0059 N84-10387
Spirally-reinforced high-strength concrete columns
[PB83-223297] 01 p0059 N84-10388
Study on strength, elastic modulus of artifical lightweight aggregate concrete
[PB83-224824] 01 p0059 N84-10389
Time-dependent behavior of high-strength concrete sustained compressive stresses
[PB83-227041] 01 p0060 N84-10391
Study of the practicalities of concrete for OTEC (Ocean Thermal Energy Conversion) and other marine applications
[PB83-221867] 01 p0060 N84-10398
Mathematical models for inelastic behavior and cracking of concrete structures 01 p0093 N84-10605
Elastic-plastic constitutive modeling of concrete
[DE83-014547] 02 p0206 N84-11342
Rapid runway repair program subtask 1.07 - rapid concrete cutting
[AD-A131771] 03 p0338 N84-12195
Detection of cavities under concrete pavement
[AD-A131851] 03 p0358 N84-12331
Non-destructive testing of non-metallic materials using microwaves
[DRIC-T-6974] 03 p0385 N84-12508
Analytical response of concrete structures subjected to high temperatures
[DE83-009625] 03 p0389 N84-12538
The effect of moisture on the physical and durability properties of methyl methacrylate polymer concrete
[DE83-016733] 03 p0390 N84-12541
High alumina cement concrete
[CSIR-BRR-573] 04 p0505 N84-13311
Detection of cracks on highway pavements
[PB83-238204] 04 p0516 N84-13389
Development of ultrasonic methods for the nondestructive inspection of concrete
[DE83-017923] 04 p0595 N84-13929
Abrasion-erosion resistance of concrete made with two aggregates, Stonewall Jackson Dam, West Virginia
[AD-A133432] 06 p0822 N84-15357
A three-dimensional photoelastic investigation of stresses and cracks formed in concrete around deformed reinforcing bars 06 p0862 N84-15621
Development of a high pressure water jet for the rapid removal of concrete
[PB84-109909] 08 p1142 N84-17426
Evaluation of Chem-Crete high strength modified asphalt concentrate
[PB84-105089] 08 p1172 N84-17636
Concrete tensile strength study
[PB84-101021] 08 p1172 N84-17637
Nonlinear geometric, material and time dependent analysis of reinforced concrete shells with edge beams
[PB84-104454] 08 p1173 N84-17639
Investigation of the FAA overlay design procedures for rigid pavements
[AD-A135317] 09 p1259 N84-18222
Mechanics of geomaterials: Rocks, concretes, soils. Preprints, William Prager Symposium
[PB84-112812] 09 p1297 N84-18482
Computer-aided analysis of concrete strength test results
[AD-A136265] 09 p1330 N84-18686
Reinforced concrete response to near field explosions
[AD-A135876] 09 p1332 N84-18696
Preventative measures to limit stress corrosion cracking in prestressed concrete
[AD-A136665] 10 p1471 N84-19609
Transient gas flow along single or bundled electrical cables surrounded by a permeable medium
[DE84-004791] 10 p1494 N84-19772
Analysis of a high-strength concrete model under biaxial compression
[AD-A137050] 10 p1518 N84-19935
Slip forms for the construction of PRessed CAst-in-Situ concrete linings for shield tunneling
[AD-A139411] 14 p2134 N84-23792
Dynamic response of concrete and concrete structures
[AD-A139294] 14 p2158 N84-23928
Condition evaluation of Supersonic Naval Ordnance Research Track (SNORT)
[AD-A140036] 15 p2265 N84-24599
Corrosion control for reinforced concrete
[AD-A139974] 15 p2317 N84-24909
High-strength concrete for Peacekeeper facilities
[AD-A140510] 16 p2477 N84-25880
Microwave detection of surface and volume moisture in building walls and related structures
[CISE-2111] 16 p2481 N84-25912
Heat: Initiated furan resin for rapid runway repair
[AD-A140902] 17 p2611 N84-26713
Microwave reflection measurements of the dielectric properties of concrete
[PB84-173624] 17 p2654 N84-26976
A study of ultrafine porosity in hydrated cements using small angle neutron scattering
[AERE-R-10954] 18 p2820 N84-27907
An AC impedance study of steel in concrete
[AERE-R-11132] 18 p2835 N84-27997

Bomb damage repair: Precast slab design
[AD-A141687] 19 p2970 N84-28819
A study of thermal properties and the heating process in asphaltic concrete
[AD-A141691] 19 p3035 N84-29254
Concrete behavior under dynamic tensile-compressive load
[AD-A141735] 19 p3036 N84-29255
Applications of the scanning electron microscope to concrete failure (Axial, biaxial, and dynamic)
[AD-A141788] 19 p3036 N84-29256
Identification of strain-softening properties and computational predictions of localized fracture
[AD-A141866] 19 p3036 N84-29258
Modeling of concrete response at high temperature
[DE84-009587] 22 p3564 N84-32570
Mechanistic methodology for airport pavement design with engineering fabrics. Volume 1: Theoretical and experimental base
[DOT/FAA/PM-84-9.1] 24 p3857 N84-34450

CONCURRENT PROCESSING
Rediflow multiprocessing
[DE84-003194] 12 p1884 N84-22282
Distributed database control and allocation. Volume 1: Frameworks for understanding concurrency control and recovery algorithms
[AD-A136891] 14 p2203 N84-24223
Distributed database control and allocation. Volume 2: Performance analysis of concurrency control algorithms
[AD-A136892] 14 p2203 N84-24224
Distributed database control and allocation. Volume 3: Distributed database system designer's handbook
[AD-A136893] 14 p2203 N84-24225
Fundamental design problems of distributed systems for the hard real-time environment
[AD-A139996] 15 p2392 N84-25358
Concurrency control using locks in distributed databases 22 p3670 N84-33262

CONDENSATES
Do pions condense in neutron-star matter?
[DE84-000463] 04 p0620 N84-14093
Acoustic damping by microcondensate — in supersonic nozzle 07 p1070 N84-16952
Using the surface tension to estimate the condensate density of superfluid He-4
[DE83-011325] 06 p1236 N84-18077
Honeycomb insulating shade
[DE84-001270] 09 p1276 N84-18335
Prediction of condensation onset and growth in the European Transonic Wind Tunnel (ETW)
14 p2096 N84-23578
Grain formation in the expanding gas flow around cool luminous stars 18 p2947 N84-28687

CONDENSER RADIATORS
U CONDENSERS (LIQUEFIERS)
U HEAT RADIATORS

CONDENSERS (LIQUEFIERS)
Condensation heat transfer of steam on a single horizontal tube
[AD-A132245] 04 p0533 N84-13508
An analysis of smooth and axially finned, rotating heat pipe condensers
[AD-A132141] 04 p0534 N84-13509
Aerothermodynamics of Low Pressure Steam Turbines and Condensers, volume 1 — conferences
[VKI-LS-1983-06-VOL-1] 06 p0840 N84-15472
Aerothermodynamics of Low Pressure Steam Turbines and Condensers, Volume 2 — conferences
[VKI-LS-1983-06-VOL-2] 06 p0841 N84-15482
Steam condenser thermal design theories
06 p0841 N84-15485
Steam condenser developments
06 p0841 N84-15486
A comparison of the tube-side performance of enhanced heat transfer tubing for Naval condensers
[AD-A126938] 17 p2667 N84-27008
Heat transfer measurements of internally finned rotating heat pipes
[AD-A140647] 17 p2668 N84-27015
Simulation program for central helium liquefier
[DE84-009866] 19 p3079 N84-29539
An evaluation of polymer coatings for the promotion of dropwise condensation of steam
[AD-A144018] 23 p3725 N84-33602

CONDENSING
NT FILM CONDENSATION
Variation of the size of nitrogen droplets in a flow of gaseous nitrogen
[DFVLR-FB-83-13] 02 p0221 N84-11450
The effect of condensate inundation on steam condensation heat transfer to wire-wrapped tubing
[AD-A132175] 04 p0615 N84-14060
Two dimensional condensing flow in transonic turbine cascades 06 p0841 N84-15484
Two-dimensional supersonic expansion flows on walls with nonequilibrium condensation
08 p1096 N84-17125
Rules governing the distribution of a gas jet in a liquid. Communication 2
[BLL-M-35437-(5828.4)] 08 p1154 N84-17513
Frontogenesis in a moist atmosphere
[PB84-104066] 08 p1193 N84-17779
Frontogenesis in a moist atmosphere
10 p1542 N84-20106
Laminar condensation heat and mass transfer to a drop moving at intermediate or high Reynolds number
11 p1651 N84-20777
Prediction of condensation onset and growth in the European Transonic Wind Tunnel (ETW)
14 p2096 N84-23578
Splitting of condensation shock waves in fluids of high specific heat
[MPIS-MITT-76] 16 p2487 N84-25949
Outgassing data for selecting spacecraft materials
[NASA-RP-1124] 17 p2617 N84-26751
Heterogeneous condensation of ice mantle around silicate core grain in molecular cloud
18 p2948 N84-28689
Two-dimensional finite amplitude mountain waves in the presence of moisture 22 p3622 N84-32947
Phase transitions in chemisorbed systems
22 p3682 N84-33342
Determination of rainfall and condensational heating in the South Pacific convergence zone during FGGE SOP-1 24 p3925 N84-34843

CONDITIONED REFLEXES
Bilateral carotid ligation and effects of electromagnetic field on conditioned reflex retention and cerebral nucleic acid levels 20 p3258 N84-30677

CONDITIONED RESPONSES
U CONDITIONING (LEARNING)

CONDITIONING (LEARNING)
An instrumental conditioning method for establishing chronic arousal
[AD-A140808] 17 p2740 N84-27396
Effects of ionizing radiation and restraint stress on activity, avoidance conditioning, and stomach ulcers in albino rats
[AD-A141515] 19 p2984 N84-28911

CONDITIONS
NT ADIABATIC CONDITIONS
NT FLIGHT CONDITIONS
NT LIPSCHITZ CONDITION
NT NONADIABATIC CONDITIONS
NT NONEQUILIBRIUM CONDITIONS
NT RUNWAY CONDITIONS
Techniques of condition monitoring and fault diagnosis in industry 04 p0546 N84-13595

CONDUCTANCE
U RESISTANCE

CONDUCTING
U CONDUCTION

CONDUCTING MEDIA
U CONDUCTORS

CONDUCTION
Hybrid perturbation/Bubnov-Galerkin technique for nonlinear thermal analysis
[NASA-TP-2145] 13 p1988 N84-22907
Computer programs for electromagnetic coupling between a conducting body and an aperture in an infinite conducting plane
[AD-A142975] 21 p3386 N84-31491

CONDUCTION BANDS
A cluster model for two-dimensional disordered systems
[INPE-2895-PRE/414] 02 p0298 N84-11953
Polarization effects in the luminescence of cadmium selenide electrodes
[AD-A133951] 05 p0647 N84-14253
Nonlinearities at the bandgap in InAs
14 p2233 N84-24395

CONDUCTION ELECTRONS
Formation of electron-hole pairs in a semiconductor by vibrationally-excited molecules
[AD-A143552] 22 p3664 N84-33226

CONDUCTIVE HEAT TRANSFER
Thermal conductance measurements of pressed OFHC copper contacts at liquid helium temperatures
[NASA-TM-85861] 03 p0429 N84-12809
Numerical simulation of two-dimensional heat transfer in composite bodies with application to de-icing of aircraft components
[NASA-CR-168283] 04 p0531 N84-13490
Use of numerical heat-transfer techniques to analyze thermal-comparator conductivity measurements
[DE84-000945] 04 p0535 N84-13515
Viscous effects and heat transfer in a calculation method for axisymmetric flow in multistage turbomachines using the stream function 07 p0956 N84-16201
The principle of virtual work and a principle of virtual heat as a basis for nonlinear finite element analysis
[WTHD-157] 07 p1005 N84-16522
ARIES: A computer program for the solution of first kind integral equations with noisy data
[DE84-003908] 07 p1056 N84-16838
A Variable Conductance Heat Pipe (VCHP) radiator system for communications payloads
10 p1440 N84-19406
A new Traveling Wave Tube (TWT) cooling concept — for ers-1 10 p1445 N84-19438
Thermal contraints on high-pressure granulite metamorphism of supracrustal rocks
11 p1678 N84-20948
Thermal stress analysis for a wood composite blade — wind turbines
[NASA-CR-173394] 12 p1826 N84-21903
Effect of O2 on double-base propellant ignition
13 p1949 N84-22673
Modeling of zero gravity venting
[NASA-CR-173503] 14 p2145 N84-23854
A finite difference method for any partial differential equation
[AD-P002959] 14 p2200 N84-24199
Element-by-element solution procedures for nonlinear transient heat conduction analysis
16 p2494 N84-26000
The heat pipe exchanger with controllable heat exchanging area 20 p3169 N84-30124
A convective mechanism for inhibition of heat conduction in laser produced plasmas
[DE84-011336] 20 p3194 N84-30289
Ammonia boiling in long tubes. Heat transfer and charge loss in vertical and horizontal tubes
[CETIM-14-C-011] 21 p3403 N84-31588
Aerodynamic heating computations for projectiles. Volume 1: In-depth heat conduction modifications to the ABRES shape change code (BRLASCC)
[AD-A143252] 22 p3531 N84-32359
Aerodynamic heating computations for projectiles. Volume 2: Swept wing calculations using the planar version of the ABRES shape change code (PLNRASCC)
[AD-A143253] 22 p3532 N84-32360
Development of advanced thermal insulation for appliances
[DE84-013132] 22 p3594 N84-32763
Modeling two-dimensional freezing using transfinite mappings and a moving-mesh finite element technique
[AD-A144131] 24 p3900 N84-34696

CONDUCTIVITY
Influence of cation stoichiometry on the electrical conductivity and high-temperature stability of MgO:Al/sub 2O/sub 3 spinel
[DE84-003305] 07 p0980 N84-16348
Ionic conductivity of Li7BiO6
[AD-A135386] 08 p1124 N84-17307
Low cost, sprayed CuInSe2 solar cell research
[DE84-005339] 10 p1530 N84-20023
The influence of ground conductivity on the structure of RF radiation from return strokes
[NASA-TM-86065] 12 p1860 N84-22117
Cathode materials development for carbonate fuel cells
[DE84-010033] 15 p2363 N84-25179
Glass electrolytes for sodium/sulfur cells
[DE84-013428] 21 p3394 N84-31539

CONDUCTIVITY METERS
CTD data from the N.E. Atlantic 31N to 46N, July 1982 Discovery cruise 130
[IOS-165] 15 p2372 N84-25233

CONDUCTORS
NT BUS CONDUCTORS
NT ELECTRIC CONDUCTORS
NT ELECTRIC WIRE
NT ELECTROLYTES
NT ION EXCHANGE MEMBRANE ELECTROLYTES
NT MOLTEN SALT ELECTROLYTES
NT NONAQUEOUS ELECTROLYTES
NT PHOTOCONDUCTORS
NT SOLID ELECTROLYTES
NT SUPERCONDUCTORS
Use of plain copper conductors in lieu of tinned-copper for internal cables 11 p1719 N84-21213
Development of copper-coated aluminum-shielded wire 11 p1719 N84-21214
Aluminum foil shield effectiveness for electronic cables 11 p1719 N84-21215
Soliton propagation in one-dimensional organic conductors
[AD-A139986] 14 p2242 N84-24463

CONES
NT CIRCULAR CONES
NT CONICAL BODIES
NT NOSE CONES
NT ROCKET NOSE CONES

Subsonic high-angle-of-attack aerodynamic characteristics of a cone and cylinder with triangular cross sections and a cone with a square cross section
[NASA-TM-84377] 01 p0003 N84-10019
On the generation of vortical flow at hypersonic speeds over elliptical cones 03 p0323 N84-12114
Theoretical basis for design of thermal-stress-free fasteners
[NASA-TP-2226] 04 p0548 N84-13614
Correlations of supersonic boundary-layer transition on cones including effects of large axial variations in wind-tunnel noise
[NASA-TP-2229] 08 p1157 N84-17534
The missing cone problem in computer tomography and a model for interpolation in synthetic aperture radar
[AD-A142421] 20 p3174 N84-30157
Hypersonic flow of viscous gas on surface of blunt cone with strong blow-in in blunted region 21 p3481 N84-32063

CONFERENCES
Aircraft Electric Secondary Power
[NASA-CP-2282] 01 p0009 N84-10055
Computer-Aided Design and Analysis of Digital Guidance and Control Systems
[AGARD-LS-128] 01 p0014 N84-10093
Shuttle Performance: Lessons Learned, part 1
[NASA-CP-2283-PT-1] 01 p0018 N84-10115
Shuttle Performance: Lessons Learned, part 2
[NASA-CP-2283-PT-2] 01 p0023 N84-10144
Proceedings of the 8th Annual Mechanics of Composites Review
[AD-A130750] 01 p0031 N84-10196
Characterization, Analysis and Significance of Defects in Composite Materials
[AGARD-CP-355] 01 p0032 N84-10203
Association for Energy Systems, Operations and Programming (AESOP) Topical Conference summary of proceedings
[CONF-820966-SUMM] 01 p0101 N84-10659
Proceedings of the United States Air Force and Tri-Service Wind Energy Workshop and Conference
[AD-A130697] 01 p0103 N84-10666
Conference on Ultrasonics in Biology and Medicine, UBIOMED 6: Report summaries
[ISSN-0208-5658] 01 p0111 N84-10723
Proceedings of the 16th Annual Conference on Manual Control
[AD-A131256] 01 p0118 N84-10763
Proceedings of the Conference on Applied Natural Language Processing
[AD-A129624] 01 p0121 N84-10787
Image Understanding, 14th Workshop
[AD-A130251] 01 p0147 N84-10963
Bottom Line Academia Conference — quality management education
[AD-A131043] 01 p0159 N84-11048
Papers for and a summary of a Workshop on The Role of Basic Research in Science and Technology: Case Studies in Energy R and D (Research and Development)
[PB83-213637] 01 p0159 N84-11052
Information technology and development series. Volume 2: Informatics and industrial development. Proceedings of the International Conference on Policies for Information Processing for Developing Countries
[AD-A130796] 01 p0162 N84-11063
Proceedings of the 1982 Integrated Data Users Workshop
[DE83-014761] 01 p0162 N84-11066
Proceedings of the STIP (Study of Travelling Interplanetary Phenomena) Symposium on Solar Radio Astronomy, Interplanetary Scintillations and Coordination with Spacecraft
[AD-A130687] 01 p0165 N84-11067
Joint University Program for Air Transportation Research, 1982
[NASA-CP-2285] 02 p0167 N84-11099
Aeroelastic Considerations in the Preliminary Design of Aircraft
[AGARD-CP-354] 02 p0169 N84-11116
Summary of the inaugural meeting of the Chinese Society of Astronautics Special Committee for Solid Rocket Propulsion and its first academic conference
[AD-A129342] 02 p0183 N84-11190
Tenth Photovoltaic Concentrator Project Integration Meeting
[DE83-012398] 02 p0242 N84-11587
Proceedings of the Workshop on Coastal Atmospheric Transport Processes
[DE83-015489] 02 p0244 N84-11601
Report of the first Nimbus-7 SMMR Experiment Team Workshop
[NASA-TM-85093] 02 p0257 N84-11684
The Regulatory Functions of Calcium and the Potential Role of Calcium in Mediating Gravitational Responses in Cells and Tissues
[NASA-CP-2286] 02 p0262 N84-11720
Interdisciplinary study on artificial intelligence
[AD-A131359] 02 p0278 N84-11819
Proceedings of the Workshop on Ion Mixing and Surface Layer Alloying
[AD-A131469] 02 p0289 N84-11885
The Gordon Research Conference on Holography and Optical Information Processing
[AD-A129137] 02 p0293 N84-11923
The 21st Symposium on Engineering Aspects of Magnetohydrodynamics
[DE83-014481] 02 p0296 N84-11943
Controls, Displays, and Information Transfer for General Aviation IFR Operations
[NASA-CP-2279] 03 p0311 N84-12029
Aerodynamics of Vortical Type Flows in Three Dimensions
[AGARD-CP-342] 03 p0321 N84-12099
Auxiliary Power Systems
[AGARD-CP-352] 03 p0333 N84-12168
Spacecraft Vibration Testing Using Multi-Axis Hydraulic Vibration Systems — conferences
[ESA-SP-197] 03 p0339 N84-12197
Integrated Flywheel Technology, 1983
[NASA-CP-2290] 03 p0343 N84-12228
International Telecommunication Standards: Issues and Implications for the '80's
[PB83-241471] 03 p0363 N84-12366
The Performance of Antennas in Their Operational Environment
[AGARD-LS-131] 03 p0363 N84-12367
Proceedings of the 16th LAMPF Users-Group Meeting
[DE83-013215] 03 p0382 N84-12488
Proceedings of the NASA Symposium on Mathematical Pattern Recognition and Image Analysis
[E84-10032] 03 p0392 N84-12557
Remote Sensing Applications for Environmental Studies — conferences
[ESA-SP-188] 03 p0395 N84-12579
Fourth International Conference on Photochemical Conversion and Storage of Solar Energy
[DE83-014760] 03 p0403 N84-12636
Proceedings of 1st International Workshop on Atmospheric Icing of Structures
[AD-A131869] 03 p0411 N84-12690
Physics at very high energies
[DE83-012854] 03 p0438 N84-12878
PATRAM '83: 7th International Symposium on Packaging and Transportation of Radioactive Materials, summaries
[DE83-012390] 03 p0439 N84-12881
Proceedings of the Workshop on Ion Mixing and Surface Layer Alloying
[DE83-015354] 03 p0455 N84-12994
NBS (National Bureau of Standards) Workshop: Environmental Control for Archival Records Storage
[PB83-242230] 03 p0460 N84-13026
Workshop on Pristine Highlands Rocks and the early History of the Moon
[NASA-CR-174584] 03 p0465 N84-13059
Solar Wind Five
[NASA-CP-2280] 03 p0466 N84-13067
Proceedings of the 6th Joint Panel Meeting: UJNR Panel on Fire Research and Safety 04 p0510 N84-13341
International Meeting on Lithium Batteries
[AD-A132371] 04 p0525 N84-13455
Proceedings of the 4th International Conference on Physicochemical Hydrodynamics
[DE83-012765] 04 p0537 N84-13532
The 1982 International Congress of Photographic Science
[AD-A132372] 04 p0538 N84-13536
Proceedings of the Seventh International Conference on High Voltage Electron Microscopy
[DE83-016323] 04 p0538 N84-13540
The 1980 International Aerospace Conference on Lightning and Static Electricity
[CSIR-ELEK-249] 04 p0566 N84-13733
Symposium on Computers in Civil Engineering
[CSIR-S-267] 04 p0577 N84-13806
Scientific program and abstracts
[DE83-017620] 04 p0601 N84-13967
Proceedings of the Summer Workshop on Proton Decay Experiments
[DE83-009572] 04 p0603 N84-13980
Separated Isotopes: Vital tools for science and medicine
[DE83-011646] 04 p0603 N84-13981
Fourth Europhysical Conference on Lattice Defects in Ionic Crystals
[AD-A132387] 04 p0612 N84-14039
The 5th Symposium on Gravitational Physiology 05 p0634 N84-14166
Active experiments in space — conferences
[ESA-SP-195] 05 p0634 N84-14172
Proceedings of the 38th Symposium on Molecular Spectroscopy
[AD-A133957] 05 p0646 N84-14252
Gordon Conference on Physical Metallurgy (1983)
[AD-A134034] 05 p0653 N84-14295
Tenth International Thermal Spraying Conference
[AD-A133074] 05 p0663 N84-14359
Workshop on Repetitive Spark Gap Operation
[AD-A132688] 05 p0675 N84-14436
Proceedings of the 1982 Forum on Subsidence Due to Fluid Withdrawals
[DE84-001026] 05 p0704 N84-14618
Symposium on mathematical modeling of circadian systems
[AD-A133636] 05 p0713 N84-14673
Symposium on Computers in Construction
[CSIR-S-285] 05 p0717 N84-14695
Software engineering — conferences
[ESA-SP-199] 05 p0721 N84-14729
Indirect processes in electron-ion scattering
[DE84-002381] 05 p0745 N84-14897
European Scientific Notes, volume 37, number 8
[AD-A133938] 05 p0759 N84-14977
Aeroacoustics: Ten Years of Research — conferences
[VKI-LS-1983-05] 06 p0767 N84-15025
Detroit space odessey
[NASA-TM-85487] 06 p0792 N84-15164
Energy Materials Coordinating Committee (EMACC). Contractors Meeting on Problems and Opportunities in Structural Ceramics
[CONF-8209111] 06 p0809 N84-15266
Proceedings of Symposium on Surface Science and its Industrial Implications
[ISBN-0-7988-2417-4] 06 p0814 N84-15298
Refrigeration for Cryogenic Sensors
[NASA-CP-2287] 06 p0818 N84-15327
Introduction to computational fluid dynamics — conferences
[VKI-LS-1983-01] 06 p0834 N84-15429
Unconfined gas explosions — conferences
[VKI-LS-1983-02] 06 p0835 N84-15438
Turbulent shear flows — conferences
[VKI-LS-1983-03] 06 p0837 N84-15448
Computational Fluid Dynamics, volume 1 — conferences
[VKI-LS-1983-04-VOL-1] 06 p0838 N84-15461
Computational Fluid Dynamics, volume 2 — conferences
[VKI-LS-1983-04-VOL-2] 06 p0839 N84-15467
Aerothermodynamics of Low Pressure Steam Turbines and Condensers, volume 1 — conferences
[VKI-LS-1983-06-VOL-1] 06 p0840 N84-15472
Aerothermodynamics of Low Pressure Steam Turbines and Condensers, Volume 2 — conferences
[VKI-LS-1983-06-VOL-2] 06 p0841 N84-15482
Thermohydraulics of liquid metals, volume 1 — conferences
[VKI-LS-1983-07-VOL-1] 06 p0841 N84-15487
Thermohydraulics of liquid metals, volume 2 — conferences
[VKI-LS-1983-07-VOL-2] 06 p0842 N84-15494
Eleventh NASTRAN User's Colloquium
[NASA-CP-2284] 06 p0858 N84-15590
Propagation Factors Affecting Remote Sensing by Radio Waves
[AGARD-CP-345] 06 p0867 N84-15646
Proceedings of the 3rd Tripartite Conference on Submarine Medicine: France, United Kingdom and the United States
[AD-A133150] 06 p0889 N84-15777
The 2nd European Conference on Computer Aided Design in Small and Medium-Size Industries
[AD-A129389] 06 p0897 N84-15821
Sparse Matrix Software Catalog
[AD-A133559] 06 p0898 N84-15830
Proceedings of the 1983 DPF Workshop on Collider Detectors: Present Capacities and Future Possibilities
[LBL-15973] 06 p0910 N84-15911
Cleveland Space Odyssey
[NASA-TM-85493] 06 p0927 N84-16020
Chicago Meets Outer Space program
[NASA-TM-85492] 06 p0927 N84-16021
Lectures of a Flight Mechanics Conference — conferences
[DFVLR-MITT-83-05] 07 p0944 N84-16120
Viscous Effects in Turbomachines
[AGARD-CP-351] 07 p0954 N84-16188
JANNAF Performance Standardization Subcommittee 16th Meeting minutes
[CPIA-PUBL-382] 07 p0981 N84-16355
Review of progress in quantitative NDE
[DE84-001906] 07 p1014 N84-16575
Proceedings of the 13th Conference on Environmental Toxicology
[AD-A134150] 07 p1027 N84-16657

Geodesy and Global Geodynamics
07 p1026 N84-16665
Report of the NASA workshop on tidal research
[NASA-CR-173204] 07 p1040 N84-16744
The 11th International Congress on Acoustics
[AD-A134345] 07 p1070 N84-16951
Aircrew Automated Escape Systems (AAES) In-service Usage Data Analyses, volume 1
[AD-A134833] 08 p1100 N84-17154
Aircrew Automated Escape Systems (AAES) In-service Usage Data Analyses, volume 2
[AD-A134834] 08 p1100 N84-17155
Synopsis and recommendations of the TSC Workshop on differential operation of NAVSTAR GPS, June 1983
[PB84-121599] 08 p1103 N84-17170
STEP Experiment Requirements
[NASA-CP-2294] 08 p1109 N84-17211
Spacecraft/plasma interactions and their influence on field and particle measurements — conferences
[ESA-SP-198] 08 p1115 N84-17253
International Conference on Recent Developments in Specialty Steels and Hard Materials
08 p1130 N84-17348
Report of the 68th National Conference on Weights and Measures 1983
[PB84-110998] 08 p1141 N84-17425
Specifications, tolerances, and other technical requirements for weighing and measuring devices
[PB84-125764] 08 p1163 N84-17572
Mini-Seminar on Quality Assurance
[CSIR-TSD-0006/82] 08 p1167 N84-17600
Remote sensing: New satellite systems and potential applications — conferences
[ESA-SP-205] 08 p1174 N84-17650
Report from the URSI Commission F Symposium on Wave Propagation and Remote Sensing
[FOA-C-30340-E2] 08 p1179 N84-17682
Proceedings of the 18th International Conference on Coastal Engineering
[ISBN-0-7988-2553-7] 08 p1194 N84-17783
West breakwater, Sines (Portugal) — conferences
08 p1194 N84-17785
Computer Science and Technology: Proceedings of the 19th Meeting of the Computer Performance Evaluation Users Group (CPEUG)
[PB84-114529] 08 p1210 N84-17892
Proceedings of the Conference on Joint Problem Solving and Microcomputers
[AD-A135001] 08 p1211 N84-17901
International Conference on Stiff Computation
[AD-A135265] 08 p1219 N84-17956
New horizons in electromagnetic physics
[DE84-002600] 08 p1230 N84-18039
Symposium on Advanced Methods of Catalyst Characterization, November 1-2, 1982
[AD-A136209] 09 p1280 N84-18359
Mini-seminar on Joining Techniques
[CSIR-TSD-0005/82] 09 p1291 N84-18431
Fourth Seminar on Efficient Metal Forming and Machining
[ISBN-0-7988-2556-1] 09 p1292 N84-18438
First European Space Mechanics and Tribology Symposium
[ESA-SP-196] 09 p1294 N84-18454
Mechanics of geomaterials: Rocks, concretes, soils. Preprints, William Prager Symposium
[PB84-112812] 09 p1297 N84-18482
Proceedings of a Symposium on Laser Induced Damage in Optical Materials: 1981
[PB84-127869] 09 p1324 N84-18649
Spaceborne Gravity Gradiometers
[NASA-CP-2305] 09 p1335 N84-18716
Papers presented at the Symposium on Upper Atmosphere Research in South Africa
[CSIR-S-325] 09 p1343 N84-18775
Proceedings, Seminar on Probabilistic Methods in Geotechnical Engineering
[AD-A136497] 09 p1345 N84-18786
NASA Space Biology Program. Eighth annual symposium's program and abstracts
[NASA-CP-2299] 09 p1351 N84-18829
User centered system design
[AD-A136131] 09 p1364 N84-18907
Proceedings of the 9th World Computer Congress. IFIP (International Federation of Information Processing)
[AD-A136317] 09 p1365 N84-18911
Proceedings of the 12th Conference on Stochastic Processes and Their Applications, Ithaca, N.Y., 11-15 Jul. 1983
[AD-A136626] 09 p1376 N84-18991
The Jack Kiefer-Jacob Wolfowitz Memorial Statistical Research Conference
[AD-A136490] 09 p1381 N84-19021
Proceedings of the Advanced Bumpy Torus Concepts Workshop
[DE84-002406] 09 p1392 N84-19091
Scientific report on the International Conference on Metastable and Modulated Semiconductor Structures (MMSS) held at Pasadena, California on 6-10 December 1982
[AD-A136204] 09 p1396 N84-19121
Management of risk and uncertainty in systems acquisition: Proceedings of the 1983 Defense Risk and Uncertainty Workshop
[AD-A136230] 09 p1397 N84-19124
Proceedings of USC Workshop on VLSI and Modern Signal Processing
[AD-A136855] 09 p1399 N84-19138
Goddard Space Flight Center contributions to the University of California, Santa Cruz Summer Workshop on High Energy Transients
[NASA-TM-86050] 09 p1406 N84-19186
Statistical methods in astronomy — conferences
[ESA-SP-201] 09 p1407 N84-19196
Proceedings of the 16th Finnish Astronomers' Days — conferences
[REPT-S-129] 09 p1413 N84-19241
Developmental possibilities and restrictions in air transport — conferences
[ESA-TT-744] 10 p1423 N84-19307
Environmental and thermal control systems for space vehicles — conferences
[ESA-SP-200] 10 p1439 N84-19396
Sheath ionization model of beam emissions from large spacecrafts
[AD-A137181] 10 p1448 N84-19483
Land mobile radio services: Acts of the 2nd Convention — conferences
[FUB-7-1983] 10 p1476 N84-19642
Some recent results in wave propagation
[DE84-003107] 10 p1482 N84-19686
The Shock and Vibration Bulletin. Part 1: Welcome, keynote address, invited papers, pyrotechnic shock, and shock testing and analysis
[AD-A134452] 10 p1507 N84-19866
The Shock and Vibration Bulletin. Part 2: Fluid-structure dynamics and dynamic analysis
[AD-A134453] 10 p1510 N84-19881
The Shock and Vibration Bulletin. Part 4: Damping and machinery dynamics
[AD-A134455] 10 p1514 N84-19906
National report of the Federal Republic of Germany on geodetic activities, 1979 - 1983 — conferences
[SER-B-265] 10 p1519 N84-19942
Proceedings of the Fourth Meeting of the LANDSAT Technical Working Group (LTWG). Attachments
[LIB-PRO-0012] 10 p1523 N84-19971
Summary of LANDSAT Technical Working Group (LTWG) meetings 10 p1524 N84-19984
Satellite measurements of radiation budgets — conferences
[BMFT-FB-W-83-025] 10 p1533 N84-20044
Proceedings of Aeromagnetic Data Workshop
[PB84-127125] 10 p1538 N84-20077
CYBER 200 Applications Seminar
[NASA-CP-2295] 10 p1558 N84-20208
Proceedings of the 3rd International Workshop on Plasma Focus Research — conference
[IPF-83-6] 10 p1581 N84-20357
Report on an information trip to Holland, August - September 1983 — conference, decision making
[FOA-C-59006-H2] 10 p1582 N84-20431
Combustion Fundamentals Research
[NASA-CP-2309] 11 p1608 N84-20525
Frigair 1983. Papers
[CSIR-S-281] 11 p1639 N84-20717
Twelfth Transducer Workshop
[AD-A137304] 11 p1657 N84-20809
Symposium on Ocean Monitoring held in Tallinn
11 p1670 N84-20895
Workshop on a Cross Section of Archean Crust
[NASA-CR-175451] 11 p1677 N84-20947
The Role of Eddies in the General Ocean Circulation: Proceedings of Aha Huliko's Hawaiian Winter Workshop
[AD-A137212] 11 p1689 N84-21014
A summary of Proceedings of the Department of Defense Robotics Applications Workshop, volume 1 (exclusive of presentations)
[AD-A137941] 11 p1711 N84-21157
Proceedings of the 32d International Wire and Cable Symposium
[AD-A136749] 11 p1719 N84-21212
Proceedings on Symposium on Atomic Collision Data for Diagnostics and Modelling of Fusion Plasmas
[IPPJ-AM-33] 11 p1734 N84-21310
Proceedings of the Conference on High Temperature Solid Oxide electrolytes. Volume 1: Anion conductors
[BNL-51728-VOL-1] 11 p1738 N84-21342
Proceedings of the Conference on High Temperature Solid Oxide Electrolytes. Volume 2: Cation conductors
[BNL-51728-VOL-2] 11 p1742 N84-21368
NASA Administrative Data Base Management Systems, 1983
[NASA-CP-2304] 11 p1747 N84-21403
Computer-based conferencing
11 p1752 N84-21435
Fifteenth Lunar and Planetary Science Conference: Press Abstracts
[NASA-CR-175409] 11 p1754 N84-21448
Calendar of selected aeronautical and space meetings
[AGARD-CAL-83/2] 11 p1761 N84-21490
Critical and strategic materials: Proceedings of the Laboratory Study Group Meeting
[CONF-830474] 12 p1783 N84-21631
Second Berkeley Catalysis and Surface Science Conference
[DE84-005536] 12 p1794 N84-21699
Proceedings of the 5th Workshop on Catalytic Combustion
[PB84-145580] 12 p1794 N84-21703
The 16th European Conference on Laser Interaction With Matter, Book of Abstracts
[AD-A138316] 12 p1821 N84-21868
Proceedings of the 20th Automotive Technology Development Contractors' Coordination Meeting
[NASA-CR-173412] 12 p1822 N84-21877
Proceedings of the Flat-Plate Solar Array Project Research Forum on Photovoltaic Metallization Systems
[NASA-CR-173477] 12 p1838 N84-21960
Publications of the JPL Solar Thermal Power Systems Project, 1976 to 1983
[NASA-CR-173464] 12 p1842 N84-22011
Proceedings of the National Symposium on Recent Advances in Pollutant Monitoring of Ambient Air and Stationary Sources
[PB84-148345] 12 p1845 N84-22031
Proceedings of the Conference on Cooperative Climate Services
[PB84-152061] 12 p1863 N84-22137
Thirteenth Gagarin Conference
12 p1865 N84-22151
Computer-Aided Geometry Modeling
[NASA-CP-2272] 12 p1869 N84-22179
IPAD 2: Advances in Distributed Data Base Management for CAD/CAM
[NASA-CP-2301] 12 p1889 N84-22299
Fiber-optics symposium, scientific agreement describe
12 p1897 N84-22358
Optical Information Processing for Aerospace Applications 2
[NASA-CP-2302] 12 p1904 N84-22402
The 14th JANNAF Plume Technology Meeting, volume 1
[AD-A139654] 13 p1941 N84-22619
The 20th JANNAF Combustion Meeting, volume 1
[AD-A138033] 13 p1943 N84-22632
Research Trends in Military Communications
[AD-A138229] 13 p1975 N84-22821
Proceedings of the 6th MIT/ONR (Massachusetts Institute of Technology/Office of Naval Research) Workshop on C3 (Command, Control, and Communications) Systems
[AD-A138614] 13 p1977 N84-22835
The Shock and Vibration Digest, volume 16, no. 3
[AD-A139707] 13 p2000 N84-22976
Proceedings of the Eighth Annual Software Engineering Workshop
[NASA-TM-85445] 13 p2026 N84-23137
The 1983 International Conference on Fourier Transform Spectroscopy September 1983
[AD-A139014] 13 p2043 N84-23258
USSR report: Science and technology policy
[JPRS-UST-84-007] 13 p2065 N84-23391
Wind Tunnels and Testing Techniques
[AGARD-CP-348] 14 p2094 N84-23564
Assessment of Alternative Aircraft Fuels
[NASA-CP-2307] 14 p2106 N84-23630
Vegetable Oil as Diesel Fuel: Seminar 3
[PB84-151323] 14 p2133 N84-23782
Proceedings of the 1983 Symposium on Military Space Communications and Operations
[AD-A135021] 14 p2137 N84-23809
US Geological Survey Polar Research Symposium. Abstracts with program
[USGS-CIRC-911] 14 p2160 N84-23934
Toward an International Geosphere-Biosphere Program: A Study of Global Change
[PB84-161769] 14 p2178 N84-24038
The Thirteenth International Symposium on Multiple-Valued Logic
[AD-A136457] 14 p2189 N84-24115
Transactions of the 1st Army Conference on Applied Mathematics and Computing, held at Washington, D.C., 9-11 May 1983
[AD-A139224] 14 p2196 N84-24173

Workshop on Multiprocessors for High Performance Parallel Computation: Position papers
[PB84-152545] 14 p2204 N84-24228
Workshop on Multiprocessors for High Performance Parallel Computation
[PB84-152677] 14 p2204 N84-24229
Current trends in atomic spectroscopy. Report on a workshop held in Tucson, Arizona, October 24-26, 1982
[AD-A139286] 14 p2222 N84-24333
Proceedings of the Workshop on Multivariable Control Systems
[AD-A139050] 15 p2253 N84-24529
Space station needs attributes and architectural options study costing working group briefing
[NASA-CR-173517] 15 p2265 N84-24601
Combustion Problems in Turbine Engines
[AGARD-CP-353] 15 p2289 N84-24732
Abstracts of the 20th Annual Meeting: Society of Engineering Science, Incorporated
[AD-A138155] 15 p2306 N84-24833
The 6th International Conference on Computing Methods in Applied Sciences and Engineering
[AD-A139824] 15 p2317 N84-24906
Proceedings of the 12th Joint Panel Conference of the US-Japan Cooperative Program in Natural Resources: Wind and Seismic Effects
[PB84-167758] 15 p2318 N84-24911
Characteristics of the Lower Atmosphere Influencing Radio Wave Propagation
[AGARD-CP-346] 15 p2322 N84-24943
Proceedings of a workshop: Multidisciplinary Use of the Very Long Baseline Array
[NASA-CR-173541] 15 p2336 N84-25034
Tribology in the 80's. Volume 2: Sessions 5 - 8
[NASA-CP-2300-VOL-2] 15 p2340 N84-25047
Proceedings of the Fourth Meeting of the LANDSAT Technical Working Group (LTWG), volume 1
[LIB-PRO-0012-VOL-1] 15 p2357 N84-25144
Proceedings of the 6th European Conference on Visual Perception
[AD-A139927] 15 p2379 N84-25279
Human factors in weapon systems
[FOA-A-58006-H2] 15 p2384 N84-25297
Software Cost Estimation Workshop report
[AD-A139840] 15 p2392 N84-25354
Proceedings of the 2nd International Workshop on Statistical Database Management
[DE84-005866] 15 p2418 N84-25522
Workshop on Requirements for Aircraft Corrosion Control
[AGARD-R-714] 16 p2434 N84-25613
Cost of corrosion for commercial aviation
16 p2436 N84-25624
Workshop on Dynamic Fracture held at Pasadena, California on 17-18 February 1983
[AD-A140194] 16 p2466 N84-25806
Laser Induced Damage in Optical Materials: 1982
[PB84-175124] 16 p2496 N84-26025
Proceedings of the Passive and Hybrid Solar Energy Update
[CONF-830960] 16 p2513 N84-26125
Proceedings of the Air Force Geophysics Laboratory Workshop on Natural Charging of Large Space Structures in Near Earth Polar Orbit
[AD-A134884] 16 p2521 N84-26185
PAME Proceedings, Pattern Analysis in the Marine Environment, An Ocean Science and Technology Workshop
[AD-A140195] 16 p2532 N84-26257
Cluster analysis package for image segmentation
[AD-P003117] 16 p2532 N84-26258
Seminar on Zeroing Methods and Applications, spring trimester, 1983 16 p2540 N84-26304
Travel report from the first International Programming Conference
[FOA-C-20520-D8] 16 p2544 N84-26332
Conference on Vector Calculators, Winter Quarter 1983 16 p2548 N84-26355
Proceedings of the Workshop on Laboratory and Observational Infrared Spectra of Interstellar Dust
[ISBN-0-902553-29-1] 16 p2569 N84-26485
Proceedings of the 12th Symposium on Aircraft Integrated Data Systems
[DFVLR-MITT-84-01] 17 p2585 N84-26585
Conference on Aerospace Transparent Materials and Enclosures
[AD-A140701] 17 p2589 N84-26596
The effect of gravity on the solidification of immiscible alloys — conference
[ESA-SP-219] 17 p2612 N84-26719
Middle Atmosphere Program. Handbook for MAP, volume 9
[NASA-CR-173439] 17 p2682 N84-27076
A comparative review of bow shocks and magnetopauses
[NASA-TM-86114] 17 p2726 N84-27353
Are living cells sensitivity to gravity?
[DFVLR-MITT-83-19] 17 p2743 N84-27418
Proceedings of the 5th Symposium on applied surface analysis
[AD-A140744] 17 p2768 N84-27576
Advanced aerodynamics. Selected NASA research
[NASA-CP-2208] 18 p2783 N84-27660
KC-135 Winglet Program Review
[NASA-CP-2211] 18 p2787 N84-27686
Get away special experimenter's symposium
[NASA-CP-2324] 18 p2799 N84-27758
First All-Union Symposium on M.A.P.: Conclusion of report 18 p2822 N84-27917
Oversight of the Unispace and International Telecommunications Union conference
[GPO-28-104] 18 p2828 N84-27953
Socialist-bloc Conference on Climate Forecasting
18 p2856 N84-28134
Symposium Proceedings: A National program for the assessment and development of the mineral resources of the United States Exclusive Economic Zone
[US-CIRC-929] 18 p2866 N84-28192
Proceedings of the Fifth Parabolic Dish Solar Thermal Power Program
[NASA-CR-173745] 18 p2871 N84-28224
Pulsed power research colloquium
[AD-A141318] 18 p2876 N84-28259
Report of the WMO/CAS expert meeting on atmospheric boundary layer parameterization over the oceans for long range forecasting and climate models
[WCP-74] 18 p2884 N84-28297
Seminar on Radar Meteorology — conferences
[WMO-626] 18 p2886 N84-28314
The military aircrew work environment
[FOA-A-59005-H1-H2] 18 p2915 N84-28490
Selections on computer technology in CSSR
18 p2918 N84-28500
Electronics seminar contributions enumerated
18 p2918 N84-28506
Proceedings of the Flat-Plate Solar Array Project Research Forum on the High-Speed Growth and Characterization of Crystals for Solar Cells
[NASA-CR-173746] 18 p2935 N84-28614
Is there a speed limit? 18 p2935 N84-28616
Laboratory and observational infrared spectra of interstellar dust — conferences
[ROE-OR-12] 18 p2947 N84-28683
Proceedings of the Large Deployable Reflector Science and Technology Workshop. Volume 1: Executive Summary
[NASA-CP-2275-VOL-1] 18 p2950 N84-28709
Proceedings of the Antenna Applications Symposium, volume 1
[AD-A142003] 19 p3014 N84-29104
Secondary flows and endwall boundary layers in axial turbomachines — conferences
[VKI-LS-1984-05] 19 p3022 N84-29162
Report on the International Cartographic Association Seminar on computer assisted mapping and charting
19 p3040 N84-29285
Proceedings of the Conference on Microwave Signatures in Remote Sensing
[FOA-C-30359-E1,E3] 19 p3042 N84-29305
Space Photovoltaic Research and Technology 1983. High Efficiency, Radiation Damage, and Blanket Technology
[NASA-CP-2314] 19 p3043 N84-29307
High-efficiency Conventional Cells Workshop
19 p3049 N84-29345
Radiation Damage Workshop
19 p3049 N84-29346
Conduct of the International Multigrid Conference
[NASA-CR-173823] 19 p3090 N84-29618
International Conference on Radiationless Transitions
[AD-A141407] 19 p3100 N84-29695
The 1984 JANNAF Propulsion Meeting, volume 1
[AD-A142852] 20 p3135 N84-29906
The 1984 JANNAF Propulsion Meeting, volume 2
[AD-A143025] 20 p3140 N84-29939
ACEE Composite Structures Technology: Review of selected NASA research on composite materials and structures
[NASA-CP-2321] 20 p3145 N84-29969
Electrochemistry Research Needs for Mineral and Primary Materials Processing: Report of Workshop
[PB84-192905] 20 p3159 N84-30062
Proceedings of the Symposium on Mechanics for Space Flight
[ISAS-SP-2] 20 p3168 N84-30114
Geodynamics
[NASA-CP-2325] 20 p3222 N84-30475
Debris Flows, Landslides, and Floods in the San Francisco Bay Region, January 1982: Overview and summary of a conference
[PB84-194737] 20 p3243 N84-30590
Proceedings of Tsunami Symposium
[PB84-183462] 20 p3252 N84-30638
International Workshop on Biophysical Correlates of Cellular Function UNESCO
[AD-A142490] 20 p3257 N84-30671
Third World Congress on Emergency and Disaster Medicine
[FOA-C-52005-H4] 20 p3260 N84-30692
Proceedings of the 2nd Annual Conference on Ada (Trademark) Technology
[AD-A142403] 20 p3269 N84-30745
IEEE Transactions on Nuclear Science. Volume NS-30, no. 4, part 2: 1983 Particle Accelerator Conference
[DE84-007400] 20 p3294 N84-30914
Proceedings papers of the 2nd AFSC (Air Force Systems Command) Avionics Standardization Conference, volume 1
[AD-A142776] 21 p3329 N84-31121
Proceedings papers of the 2nd AFSC (Air Force Systems Command) Avionics Standardization Conference, volume 2
[AD-A142777] 21 p3335 N84-31165
Proceedings of the 2nd AFSC (Air Force Systems Command) Avionics Standardization Conference. Volume 3: Embedded computer resources governing documents
[AD-A142778] 21 p3342 N84-31201
Proceedings of the 2nd AFSC (Air Force Systems Command) Avionics Standardization Conference. Volume 4: Tutorial: MIL-STD-1553 multiplex data bus
[AD-A142779] 21 p3342 N84-31202
Proceedings of the 2nd AFSC (Air Force Systems Command) Avionics Standardization Conference. Volume 5: Tutorial: MIL-STD-1589 JOVIAL (J-73) high order language
[AD-A142780] 21 p3342 N84-31203
Proceedings of the 2nd AFSC (Air Force Systems Command) Avionics Standardization Conference. Volume 6: Tutorial: MIL-STD-1679 weapon system software development
[AD-A142781] 21 p3342 N84-31204
Proceedings of the 2nd AFSC (Air Force Systems Command) Avionics Standardization Conference. Volume 7: Tutorial: MIL-STD-1750, 16 bit instruction set architecture
[AD-A142782] 21 p3342 N84-31205
Proceedings of the 2nd AFSC (Air Force Systems Command) Avionics Standardization Conference. Volume 8: Tutorial: MIL-STD-1815 Ada high order language
[AD-A142783] 21 p3342 N84-31206
Proceedings of the 2nd AFSC (Air Force Systems Command) Avionics Standardization Conference. Volume 9: Tutorial: Navy case study implementation of military standards
[AD-A142784] 21 p3342 N84-31207
Advanced Technology for SAM Systems Analysis Synthesis and Simulation
[AGARD-LS-135] 21 p3350 N84-31248
Computational Methods: 1984 JPM Specialist Session
[AD-A142923] 21 p3354 N84-31276
Laser Induced Chemistry. 1984 JPM Specialist Session
[AD-A142922] 21 p3372 N84-31400
Annual meeting of the Pyrotechnics and Explosives Applications Section on the American Defense Preparedness Association
[AD-A143157] 21 p3373 N84-31406
Proceedings of the Antenna Applications Symp., volume 2
[AD-A142754] 21 p3383 N84-31467
Nonlinear Structural Analysis
[NASA-CP-2297] 21 p3419 N84-31688
The INPE handouts to the 6th LANDSAT Technical Working Group (LTWG) Meeting
[E84-10176] 21 p3427 N84-31738
Annotated bibliography of global resources information systems related publications 21 p3428 N84-31748
Noise as a public health problem, volume 1
[AD-A142412] 21 p3436 N84-31799
Noise as a public health problem, volume 2
[AD-A142413] 21 p3436 N84-31800
AFGL cloud modeling program: Annex
[AD-A143084] 21 p3447 N84-31872
Proceedings of the 8th Annual Climate Diagnostics Workshop
[PB84-192418] 21 p3450 N84-31893
Microwave and far infrared spectroscopy of transient molecules
[AD-A142962] 21 p3493 N84-32134
Refractory alloy technology for space nuclear power applications
[DE84-001745] 21 p3497 N84-32166
Proceedings of Collaborating Research Meeting on Particle-Beam Applications to Fusion Research
[IPPJ-678] 21 p3500 N84-32184

Proceedings of the 5th Interservice/Industry training equipment conference Volume 1
[AD-A142774] 21 p3508 N84-32223
Large Deployable Reflector Science and Technology Workshop. Volume 3: Systems and Technology Assessment
[NASA-CP-2275-VOL-3] 21 p3523 N84-32318
Calendar of selected aeronautical and space meetings
[AGARD-CAL-84/1] 21 p3527 N84-32341
Technical evaluation report on the Fluid Dynamics Panel Symposium on Wind Tunnels and Testing Techniques
[AGARD-AR-193] 22 p3539 N84-32402
Twelfth NASTRAN Users' Colloquium
[NASA-CP-2328] 22 p3609 N84-32864
Proceedings of the Solar Thermal-Photochemical Conversion Workshop
[DE84-000089] 22 p3619 N84-32929
Proceedings of a Workshop on Polar Stratospheric Clouds: Their Role in Atmospheric Processes
[NASA-CP-2318] 22 p3622 N84-32952
Global Observations and Understanding of the General Circulation of the Oceans
[NASA-CR-173905] 22 p3627 N84-32986
Occupational Medicine Relevant to Aviation Medicine
[AGARD-CP-341] 22 p3631 N84-33011
NASA Administrative Data Base Management Systems, 1984
[NASA-CP-2323] 22 p3671 N84-33266
Materials Substitution and Recycling
[AGARD-CP-356] 23 p3702 N84-33465
Oxidation characteristics of molybdenum-zirconium oxide cermets
[NASA-TM-77622] 23 p3723 N84-33594
Research on Instrumentation, Testing and Evaluation
[DE84-014859] 23 p3727 N84-33616
Radio spectrum conservation technique — conferences
[FOA-C-30358-E2] 23 p3732 N84-33653
The Record of Electrical and Communication Engineering Conversazione, volume 52, no. 3, February 1984
[ISSN-0385-7719] 23 p3740 N84-33707
The 19th Electrical Communication Research Institute Symposium: Future prospects for the optical computer
23 p3740 N84-33708
Battery Material Symposium
[AD-A143815] 23 p3742 N84-33717
Project summaries, supplement
[DE84-013678] 23 p3744 N84-33734
Special Course on Stability and Transition of Laminar Flow
[AGARD-R-709] 23 p3748 N84-33757
International Geoscience and Remote Sensing Symposium (IGARSS) 84. Remote sensing: From Research Towards Operational Use, volume 1
[ESA-SP-215-VOL-1] 23 p3764 N84-33857
The International Geoscience and Remote Sensing Symposium (IGARSS) 84. Remote sensing: From research towards operational use, volume 2
[NASA-CR-173978] 23 p3777 N84-33946
Report of the second session of the International Working Group on Data Management for the International Satellite Cloud Climatology Project (ISCCP)
[WCP-52] 23 p3801 N84-34103
Protein Single Crystal Growth Under Low Gravity — conferences
[ESA-SP-1067] 23 p3804 N84-34118
The Gravity Relevance in Bone Mineralization Processes — conference
[ESA-SP-203] 23 p3807 N84-34136
The role of information technology in emergency management
[GPO-29-457] 23 p3834 N84-34319
Solar Terrestrial Physics: Present and Future
[NASA-RP-1120] 23 p3836 N84-34332
Planetary Data Workshop, part 1
[NASA-CP-2343-PT-1] 23 p3841 N84-34366
Planetary Data Workshop, part 2
[NASA-CP-2343-PT-2] 23 p3842 N84-34376
Space Station Needs, Attributes and Architectural Options. Contractor orientation briefings
[NASA-CR-173999] 24 p3859 N84-34460
Fundamentals of Alloy Solidification Applied to Industrial Processes
[NASA-CP-2337] 24 p3881 N84-34589
Space laser applications and technologies (SPLAT) — conference
[ESA-SP-202] 24 p3903 N84-34715
Extracts from symposium: Countersurveillance 1983
[MRL-R-921] 24 p3914 N84-34779
NASA/MSFC FY-84 Atmospheric Processes Research Review
[NASA-CP-2329] 24 p3923 N84-34829
Report of the Planning Meeting on International Satellite Cloud Climatology Project (ISCCP)
[WCP-28] 24 p3933 N84-34896
Proceedings of the 29th Conference on the Design of Experiments in Army Research, Development and Testing
[AD-A144261] 24 p3938 N84-34927
Fourth European IUE Conference
[ESA-SP-218] 24 p3970 N84-35135

CONFIDENCE
Estimation of uncertainty in coal resources
[DE83-902538] 03 p0401 N84-12620
A generalized class of certainty and information measures
[NLR-MP-82038-U] 15 p2397 N84-25379
Robust confidence intervals for a scale parameter: A compromise between the Gaussian and the slash
[AD-A143666] 23 p3820 N84-34223

CONFIDENCE LIMITS
Improving NDE (Non-destructive evaluation) capability through multiple inspection with application to gas turbine engine disks
[AD-A131762] 03 p0385 N84-12509
Simplified confidence intervals for an awkward nonlinear model
[AD-A136403] 09 p1374 N84-18975
Calculations of repeatability — of experimental results
[NPL-RS(EXT)-69] 12 p1896 N84-22347
Some notes on optimization of confidence bands in process control based on approximate models
[RR-215] 19 p3003 N84-29031
Absolute bounds on the mean and standard deviation of transformed data for constant-derivative transformations
[AD-A141854] 19 p3088 N84-29605
A uniform bound for the tail probability of Kolmogorov-Smirnov statistics
[AD-A141761] 19 p3093 N84-29643
New approaches to robust confidence intervals for location: A simulation study
[AD-A142248] 19 p3094 N84-29646
Statistical inference for reliability from stress strength relationships: The normal case
[AD-A142893] 21 p3472 N84-32005
Bi- and poly-optimal confidence limits for a location and parameter
[AD-A142980] 21 p3473 N84-32012
Strong confidence intervals: A compromise between the Gaussian and the slash
[AD-A142981] 21 p3475 N84-32021
One-sided r-reliable intervals and their associated confidences on the sum of two Continuous/Independent, random variables
[AD-A143387] 22 p3648 N84-33131

CONFIGURATION INTERACTION
Chaos in semiclassical model of multiphoton excitation of spherical top molecules
[DE83-014201] 02 p0289 N84-11897
Applications of molecular quantum mechanics to problems in chemistry
[DE83-015943] 03 p0456 N84-13003
Electron-electron interactions and broken symmetry in one dimension
[DE84-001704] 06 p0925 N84-16014
Investigation of operational and design factors resulting from main rotor and tail rotor interactions
[AD-A137710] 11 p1603 N84-20497
Application of the graphical unitary group approach to the energy second derivative for CI wave functions via the coupled perturbed CI equations
[DE84-008489] 19 p3112 N84-29772
Determination of energetics and spectra of simple molecular systems using theoretical methods
[DE84-009668] 20 p3296 N84-30930

CONFIGURATION MANAGEMENT
A critique of NAVSTAR Global Positioning System, user equipment, configuration control for DoD common and Navy unique items
[AD-A131234] 01 p0008 N84-10047
Software engineering — conferences
[ESA-SP-199] 05 p0721 N84-14729
Integrated Software Engineering Facilities (ISEF)
05 p0721 N84-14730
The Integrated Software Engineering Facilities (ISEF) software configuration management system
05 p0722 N84-14732
Software configuration management
05 p0723 N84-14742
Coherent management support in the Ada environment
05 p0724 N84-14748
Infrared Astronomical Satellite (IRAS) end-to-end data system
05 p0725 N84-14763
Computer program development specification for Ada integrated environment: KAPSE (Kernel Ada Programming Support Environment)/Database, type b5, B5-AIE(1).KAPSE(1)
[AD-A134092] 05 p0726 N84-14768
Benchmarking the selection and projection operations and ordering capabilities of relational database machines
[AD-A136776] 10 p1593 N84-20438
An analysis of naval aviation configuration status accounting
[AD-A140473] 16 p2565 N84-26460
Integrated Application of Active Controls (IAAC) technology to an advanced subsonic transport project: Final ACT configuration evaluation
[NASA-CR-3519] 18 p2792 N84-27723
Evaluation of automated configuration management tools in ADA programming support environments
[AD-A140982] 18 p2944 N84-28666
Configuration management with the Ada (trademark) language
[AD-P003416] 20 p3269 N84-30748
Software control and system configuration management: A systems-wide approach
[NASA-TM-85908] 21 p3328 N84-31112
Software configuration management in a project environment
[AD-P003592] 21 p3341 N84-31197
Managing aircraft/simulator concurrency
[AD-P003463] 21 p3511 N84-32240

CONFIGURATIONS
Saturated tearing modes in Tokamaks, renewal proposal
[DE84-006851] 14 p2229 N84-24370
A comparison of the tube-side performance of enhanced heat transfer tubing for Naval condensers
[AD-A126938] 17 p2667 N84-27008

CONFINEMENT
A systematic comparative analysis of conditions analogous to long-duration space missions
[AD-P003353] 18 p2912 N84-28469
World survey of magnetic mirror confinement research facilities
[DE84-009715] 19 p3108 N84-29749
An experimental investigation of gas jets in confined swirling air flow
[NASA-CR-3832] 23 p3694 N84-33412

CONFIRMATION
U PROVING

CONFLUENCE
U CONVERGENCE

CONFORMAL MAPPING
The specific solutions of a uniform algebraic differential equation of the second order
[ISSN-0066-1953] 04 p0575 N84-13783
Quasiconformal semiflows 04 p0576 N84-13792
On the order of quasiregular mappings
04 p0576 N84-13793
F-harmonic measure in space
04 p0576 N84-13794
On Fuchsian groups of accessible type
04 p0576 N84-13795
On L sup p-integrability in PDE's and quasiregular mappings for large exponents 04 p0576 N84-13799
Quasiconformal mappings with free boundary components 04 p0577 N84-13801
Variational method for adaptive grid generation
[DE83-017312] 04 p0583 N84-13850
Grid generation for cascades using conformal mapping
[NAL-TR-760] 04 p0586 N84-13872
Chaos and order — stochastic processes in dynamical systems
[MC-TW-243/83] 07 p1067 N84-16930
On a theorem of Szegoe on univalent convex maps of the unit circle
[AD-A139256] 14 p2212 N84-24286
The Dirichlet problem for harmonic maps from the disk into the Euclidean n-sphere
[AD-A139259] 14 p2213 N84-24287
Routes to optical turbulence in a dispersive ring bistable cavity containing saturable nonlinearities
14 p2234 N84-24404
Some methods for numerical conformal mapping
[NAL-TR-794T] 16 p2548 N84-26354
Global bifurcation of a logistic delay map
[CWI-AM-R8402] 19 p3092 N84-29634
A variational formulation for dissipative maps
[REPT-81] 20 p3283 N84-30846
Conformal mapping and almost Lipschitzian curves
22 p3835 N84-33040
Quasiconformal mappings and grid generation
[NASA-CR-173920] 22 p3644 N84-33105

CONFORMAL TRANSFORMATIONS
U CONFORMAL MAPPING

CONGESTION
Techniques for the analysis of spectral and orbital congestion in space systems
[AD-A140841] 17 p2614 N84-26734

CONGRESSIONAL REPORTS

Air Force and Navy trainer aircraft acquisition programs
[PB83-231076] 01 p0002 N84-10012

Space commercialization
[GPO-22-870] 01 p0017 N84-10108

Policy and legal issues involved in the commercialization of space
[GPO-21-495] 01 p0163 N84-11069

Aircraft maintenance and fire
[GPO-24-247] 02 p0169 N84-11112

Joint services advanced vertical wing (JVX) program
[GPO-22-771] 02 p0177 N84-11160

Technology of airport safety
[GPO-24-762] 02 p0182 N84-11183

Flight of STS-7 with astronauts Captain Robert L. Crippen, Captain Frederick H. Hauck, Colonel John M. Fabian, Doctor Sally K. Ride and Doctor Norman E. Thagard
[GPO-23-872] 02 p0184 N84-11198

The space nuclear reactor program
[GPO-22-828] 02 p0185 N84-11204

National Aeronautics and Space Administration authorization, 1984, volume 2
[GPO-19-605] 02 p0303 N84-11988

Paperwork Reduction Act amendments of 1983
[H-REPT-98-147] 02 p0303 N84-11989

National Science Foundation authorization, 1984 authorization
[GPO-21-260] 02 p0303 N84-11990

Space telescope cost, schedule and performance
[GPO-24-522] 02 p0305 N84-12001

US weather satellites and services
[GPO-25-753] 03 p0340 N84-12206

Biological clocks and shift work scheduling
[GPO-21-747] 03 p0415 N84-12713

National Aeronautics and Space Act of 1958, as amended and related legislation
[GPO-24-491] 03 p0460 N84-13032

Aircraft navigation technology and errors
[GPO-26-859] 04 p0482 N84-13170

Flight of STS-8 with astronauts Captain Richard H. Truly, Commander Daniel C. Brandenstein, Lieutenant Commander Dale A. Gardner, Lieutenant Colonel Guion S. Bluford, Jr. and William Edgar Thornton, M.D.
[GPO-27-043] 05 p0643 N84-14230

NASA's space station activities
[GPO-27-393] 05 p0644 N84-14234

The impact of robotics on employment
[GPO-21-160] 05 p0715 N84-14684

NASA's five-year plan
[GPO-27-459] 05 p0757 N84-14964

Improving the air traffic control system: An assessment of the National Airspace System Plan
07 p0950 N84-16160

A review of US international aviation policy
[GPO-18-813] 07 p1067 N84-17070

Improvement needed in the implementation of the United States International Aviation Policy
[GPO-23-934] 07 p1087 N84-17072

Airport and aircraft safety research and technology
[GPO-26-497] 08 p1100 N84-17152

Semiannual report to Congress on the effectiveness of the civil aviation security program
[AD-A134860] 08 p1100 N84-17156

Satellite-directed navigational guidance for aircraft
[H-REPT-98-510] 08 p1102 N84-17164

Review of materials processing in space, 1983
[GPO-27-914] 08 p1107 N84-17193

Space commercialization
[GPO-26-498] 08 p1107 N84-17194

Transfer of civil meteorological satellites
[H-REPT-98-509] 08 p1113 N84-17238

Alternative fuels for general aviation
[GPO-27-618] 08 p1139 N84-17409

Providing comprehensive national policy dealing with national needs and objectives in the Arctic and national materials policy
[H-REPT-98-593] 08 p1173 N84-17640

A 1983 science and technology posture hearing with Director, Office of Science and Technology Policy
[GPO-21-095] 08 p1237 N84-18085

Research and development joint ventures
[GPO-26-312] 08 p1241 N84-18114

Joint industry/university cooperation with federally supported research facilities
[GPO-24-902] 08 p1241 N84-18115

National Aeronautics and Space Administration Act, 1985
08 p1241 N84-18116

Role of technology in promoting industrial competitiveness
[S-REPT-98-565] 10 p1471 N84-19605

LANDSAT-4 commercialization update
10 p1523 N84-19974

Civil space station
[S-REPT-98-523] 11 p1621 N84-20613

The commercialization of meteorological and land remote-sensing satellites
[GPO-20-901] 11 p1622 N84-20614

Information systems, security and privacy
[RAND/P-6930] 11 p1747 N84-21402

Compilation of selected aviation laws
[GPO-99-811] 11 p1752 N84-21438

Department of Housing and Urban Development, and certain independent agencies appropriations, 1984, part 2
[S-REPT-98-221-PT-2] 11 p1752 N84-21439

Department of Housing and Urban Development-independent agencies appropriations for 1984: National Aeronautics and Space Administration
11 p1753 N84-21440

Authorizing appropriations to the National Aeronautics and Space Administration for fiscal year 1985
[H-REPT-98-629] 11 p1753 N84-21441

Review of the National Aeronautics and Space Act of 1958
[GPO-28-915] 11 p1753 N84-21442

National Aeronautics and Space Administration Authorization Act, 1985 11 p1753 N84-21443

National Aeronautics and Space Administration Authorization Act, 1985
[H-REPT-98-629] 11 p1753 N84-21444

Report to Congress on federal energy conservation programs, fiscal year 1981
[DOE/CE-0040] 12 p1917 N84-22489

Transfer of civil meteorological satellites
[S-REPT-98-260] 14 p2248 N84-24503

Paperwork Reduction Act of 1980
[S-REPT-98-479] 14 p2248 N84-24504

National Aeronautics and Space Administration Authorization Bill, 1984
[S-REPT-98-455] 14 p2249 N84-24506

National Aeronautics and Space Administration Authorization Act
[S-REPT-98-455] 14 p2249 N84-24507

Department of Housing and Urban Development Appropriations Bill, 1984
[H-REPT-98-803] 14 p2249 N84-24508

Man and the biosphere program
[GPO-28-292] 15 p2366 N84-25193

Joint hearing on carbon dioxide and the greenhouse effect. Testimony presented to Subcommittee on Natural Resources, Agriculture Research and Environment and Subcommittee on Investigations and Oversight of the Science and Technology Committee, US House of Representatives
[DE84-007527] 15 p2372 N84-25230

Report to the Congress on ocean pollution
[PB84-166766] 15 p2374 N84-25246

Biological clocks and shift work scheduling
[GPO-29-312] 15 p2379 N84-25277

High energy physics facilities
[GPO-30-261] 15 p2406 N84-25444

The 1985 NASA authorization
[GPO-31-453] 15 p2419 N84-25526

Arctic Research and Policy Act of 1983
[GPO-171] 15 p2419 N84-25527

Future of aeronautics
[GPO-29-744] 15 p2419 N84-25529

Department of Housing and Urban Development-Independent Agencies Appropriation Bill, 1985 15 p2420 N84-25530

National Aeronautics and Space Administration
15 p2420 N84-25531

Department of Housing and Urban Development-Independent Agencies Appropriations Act, 1985 15 p2420 N84-25532

National Aeronautics and Space Administration research and development 15 p2420 N84-25533

International competitiveness in electronics
[PB84-170695] 16 p2568 N84-26475

Department of Housing and Urban Development-Independent Agencies Appropriations Bill, 1985
[S-REPT-98-506] 16 p2568 N84-26476

National Aeronautics and Space Administration
16 p2568 N84-26477

Department of Housing and Urban Development-Independent Agencies Appropriation Act, 1985
[S-REPT-98-506] 16 p2568 N84-26478

National Aeronautics and Space Administration: Research and development foi HC
16 p2568 N84-26479

Department of Housing and Urban Development-Independent Agencies Appropriation Act, 1985 16 p2568 N84-26480

National Aeronautics and Space Administration
16 p2568 N84-26481

Report to Congress of the Office of Technology Assessment
[PB84-173814] 16 p2568 N84-26482

Making appropriations for the Department of Housing and Urban Development, and for sundry independent agencies, boards, commissions, corporations, and offices for the fiscal year ending September 30, 1985, and for other purposes
[H-REPT-98-867] 17 p2772 N84-27603

National Aeronautics and Space Administration
17 p2772 N84-27604

Authorizing appropriations from the National Aeronautics and Space Administration
[H-REPT-98-873] 17 p2772 N84-27605

Justification of estimates for fiscal year 1985 submitted to Congress February 1984. Other procurement, Air Force
[AD-A140835] 17 p2773 N84-27606

Justification of estimates for fiscal year 1985 submitted to Congress February 1984. Missile procurement, Air Force
[AD-A140836] 17 p2773 N84-27609

Oversight of the Unispace and International Telecommunications Union conference
[GPO-28-104] 18 p2828 N84-27953

Report of accomplishments under the airport improvement program
[AD-A142444] 20 p3132 N84-29889

Cabin air quality
[GPO-29-522] 20 p3263 N84-30702

Land Remote-Sensing Commercialization Act of 1984
[H-REPT-98-647] 20 p3318 N84-31063

US technology transfer to China
[GPO-29-567] 20 p3318 N84-31064

Impact of robots and computers on the work force of the 1980's
[GPO-31-912] 22 p3603 N84-32826

Agriculture and water use: Present and future issues
[GPO-30-599] 22 p3614 N84-32897

National environmental monitoring
[GPO-28-186] 22 p3619 N84-32933

Agriculture weather services
[GPO-27-913] 22 p3624 N84-32966

Hurricane Alicia: Prediction, damage and recovery efforts
[GPO-33-446] 22 p3625 N84-32968

The 1985 NASA authorization, volume 2
[GPO-34-202] 22 p3676 N84-33301

Oversight on the Federal Aviation Administration fiscal year 1985 research, engineering and development budget request
[GPO-34-924] 22 p3676 N84-33302

National Aeronautics and Space Administration Authorization Act, 1985
[PUB-LAW-98-361] 22 p3676 N84-33303

Airport safety technology: Washington National Airport
[GPO-34-406] 23 p3696 N84-33423

Space activities of the United States, Soviet Union, and other launching countries/organizations, 1957-1983
[GPO-33-265] 23 p3696 N84-33425

The Land Remote-Sensing Commercialization Act of 1984
[GPO-33-947] 23 p3762 N84-33848

International implications of proposed sale of LANDSAT satellite
[GPO-31-310] 23 p3763 N84-33849

Sale of LANDSAT could adversely affect international relations
[H-REPT-98-1108] 23 p3763 N84-33850

The role of information technology in emergency management
[GPO-29-457] 23 p3834 N84-34319

Commercial Space Launch Act
[H-REPT-98-816] 23 p3835 N84-34329

Space telescope, 1984
[GPO-37-290] 23 p3838 N84-34350

NASA authorization for fiscal year 1985
[GPO-32-363] 24 p3969 N84-35133

Review of the National Aeronautics and Space Act of 1958, as amended
[GPO-38-705] 24 p3970 N84-35134

CONGRUENCES

An exhaustive analysis of multiplicative congruential random number generators with modulus 2(31)-1
[AD-A143065] 21 p3473 N84-32015

CONICAL BODIES

Theoretical modelling of three-dimensional vortex flows in aerodynamics 03 p0324 N84-12116

The structure of the internal wave Mach front generated by a point source moving in a stratified fluid
[AD-A133775] 05 p0680 N84-14470

Three-dimensional flow over a conical afterbody containing a centered propulsive jet: A numerical simulation 10 p1560 N84-20222

Thermal characteristics of plasma reactors with cylindrical and conical multijet mixing chambers
13 p1970 N84-22788

Three-dimensional turbulent boundary layers at bielliptical bodies in stream of compressible gas at some angle of attack 17 p2648 N84-26936
Geodesic cone antenna
[AD-P003408] 19 p3015 N84-29112
Morse theory for flows in presence of a symmetry group
[AD-A144661] 24 p3952 N84-35026

CONICAL FLARE
U CONES

CONICAL FLOW
A wing concept for supersonic maneuvering
[NASA-CR-3763] 06 p0781 N84-15115
The COREL and W12SC3 computer programs for supersonic wing design and analysis
[NASA-CR-3676] 08 p1096 N84-17130
On bifurcation phenomena in conical flow patterns
[VTH-LR-378] 10 p1495 N84-19779
The invariance of cones and wedges under flows
[PREPRINT-796] 12 p1817 N84-21848
Conical flows with leading edge vortices 15 p2333 N84-25013
Supersonic flows around a circular cone with or without blowing on the surface
[AD-A143258] 22 p3532 N84-32362

CONICAL NOZZLES
Inverted velocity profile semi-annular nozzle jet exhaust noise experiments
[NASA-TM-83525] 04 p0595 N84-13924
Static thrust augmentation of rocket motors by air entrainment
[AD-A143179] 22 p3543 N84-32430

CONICAL SCANNING
A conical scan radiometer for an airplane mission 10 p1534 N84-20050
On the use of narrow band infrared channels to determine the outgoing long wave flux — satellite radiometry 10 p1534 N84-20051

CONICS
NT ELLIPSES
NT HYPERBOLAS
NT PARABOLAS
Plasma Physics on auroral field lines: The formation of ion conic distributions
[NASA-CR-173683] 18 p2932 N84-28595

CONIFERS
Reflectance modeling 12 p1831 N84-21935

CONJUGATE GRADIENT METHOD
Computational methods for static and dynamic systems and engineering applications
[PB83-227314] 01 p0135 N84-10684
Vectorization of algorithms for solving systems of elliptic difference equations
[DE83-014125] 05 p0736 N84-14848
Solution methods for large sparse linear systems
[AD-A134529] 07 p1062 N84-16885
Evaluation of step directions in optimization algorithms
[DE84-006044] 11 p1716 N84-21194
Simultaneous analysis and design
[NASA-CR-172334] 12 p1826 N84-21902
Banded preconditioning for the solution of symmetric positive definite linear systems
[AD-A140097] 15 p2399 N84-25394
Equivalence between maximization problems subjected to inequality constraints
[INPE-3166-PRE/536] 23 p3818 N84-34206

CONJUGATES
A multigrid method and a combined multigrid-conjugate gradient method for elliptic problems with strongly discontinuous coefficients in general domains
[PUBL-604-REV] 08 p1222 N84-17980
Application of augmented-Lagrangian methods in meteorology: Comparison of different conjugate-gradient codes for large-scale minimization 12 p1854 N84-22076

CONJUGATION
NT PHASE CONJUGATION
Crystallogeometric analysis of compatibility of carbon-metal materials
[BLL-M-35559-(5828.4)] 17 p2767 N84-27570
Locking of diode gain modules using optical conjugation techniques
[AD-A141234] 18 p2846 N84-28075

CONJUNCTIVA
Investigation of the microcirculation of the conjunctiva in airmen with the initial symptoms of cerebral atherosclerosis 08 p1199 N84-17818

CONNECTICUT
Connecticut ELF (Extremely Low Frequency) field measurements, May to July 1977
[AD-A137416] 10 p1480 N84-19668

CONNECTIONS
U JOINTS (JUNCTIONS)

CONNECTIVE TISSUE
NT CARTILAGE
NT COLLAGENS

CONNECTORS
NT ELECTRIC CONNECTORS
NT UNIONS (CONNECTORS)
Fiber optics expanded beam connector
[AD-A131125] 02 p0294 N84-11929
Hermetically sealed microminiature multisocket connector
[DE83-017484] 03 p0384 N84-12503
Ultra low loss optical fiber cable assemblies, volume 2
[AD-A132006] 03 p0440 N84-12891
Ultra low loss optical fiber cable assemblies, volume 1
[AD-A132007] 03 p0440 N84-12892
Standard NIM digital bus (NIM/GPIE)
[DE83-017865] 04 p0522 N84-13435
Fabrication of a hermetically sealed connector
[DE84-002322] 06 p0830 N84-15402
Clamp-mount device
[NASA-CASE-MFS-25510-1] 07 p1011 N84-16560
Electronic packaging and interconnect technology working group report IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A137336] 10 p1504 N84-19633
Fabrication and evaluation of a high density multi fiber plastic connector 11 p1720 N84-21223
Lead making for improved continuous-flow manufacturing systems 11 p1721 N84-21224
Breakout cables for short haul fiber optic systems 11 p1726 N84-21270
Apparatus for releasably connecting first and second objects in predetermined space relationship
[NASA-CASE-MSC-18969-1] 13 p1938 N84-22605
Connector and cable assembly specifications for the SHAPE fiber optic network
[AD-A141280] 18 p2932 N84-28593
Optical fiber termination and splicing techniques
[DE84-013919] 22 p3564 N84-32572
Soldering method for cable connectors
[AD-D011103] 22 p3587 N84-32718
Nonlinear analysis of a bolted marine riser connector using NASTRAN substructuring 22 p3610 N84-32875
Harness formation end-effector with interchangeable tool capability
[AD-D011168] 23 p3757 N84-33813

CONNECTORS (ELECTRIC)
U ELECTRIC CONNECTORS

CONOIDS
U CONICAL BODIES

CONSCIOUSNESS
Analysis of reward functions in learning: Unconscious information processing: Noncognitive determinants of response strength
[AD-A144152] 24 p3937 N84-34920

CONSECUTIVE EVENTS
Human reliability analysis using event trees
[S/T-REPT-VOL-1-NO-3] 20 p3265 N84-30718

CONSERVATION
NT ENERGY CONSERVATION
Evaluation and control of conservatism in drop table shock tests 10 p1509 N84-19879

CONSERVATION EQUATIONS
Multidimensional explicit difference schemes for hyperbolic conservation laws
[NASA-CR-172254] 03 p0425 N84-12778
Averaging procedures of multiphase conservation equations
[DE83-014698] 04 p0592 N84-13908
Time dependent, compressible simulations of shear flows: Tests of outflow boundary conditions
[AD-A136410] 09 p1314 N84-18587
Radiative heat transfer, Favre-averaging and turbulence closure models for combustion applications
[VTH-LR-383] 10 p1496 N84-19780
Entropy condition satisfying approximations for the full potential equations of transonic flow
[NASA-TM-85751] 11 p1601 N84-20485
A finite element method for the gas dynamics equations in 2 dimensions and in conservation form
[AD-A139774] 15 p2333 N84-25009
An investigation of single-substance horizontal two-phase flow
[DE84-012292] 21 p3403 N84-31587

CONSERVATION LAWS
Energy conserving nonrelativistic guiding center mechanics and the Galilean principle of relativity
[IPP-6/219] 02 p0286 N84-11878
The possible unifying effect of the dynamic theory
[DE83-014082] 02 p0301 N84-11973
Multidimensional explicit difference schemes for hyperbolic conservation laws
[NASA-CR-172254] 03 p0425 N84-12778
Deterministic chaos in materials exhibiting phase transitions
[AD-A135172] 08 p1158 N84-17537
Accuracy of stable schemes for 2D scalar conservation laws
[DE84-004869] 08 p1222 N84-17976
Convergence of generalized MUSCL schemes
[NASA-CR-173356] 09 p1372 N84-18859
Convergence of generalized MUSCL schemes
[NASA-CR-172306] 10 p1420 N84-19286
Riemann solvers, the entropy condition and high resolution difference approximations
[AD-P002945] 14 p2198 N84-24185
Conservation laws for some separable gyroscopic dynamical systems 15 p2313 N84-24876
A second order upwind flux method for hyperbolic conservation laws
[AD-A139769] 15 p2332 N84-25008
TVD finite difference schemes and artificial viscosity
[NASA-CR-172373] 19 p3082 N84-29559
An investigation of single-substance horizontal two-phase flow
[DE84-012292] 21 p3403 N84-31587
Conservation laws of wave action and potential enstrophy for Rossby waves in a stratified atmosphere
[NASA-TM-86058] 21 p3442 N84-31838
Least-squares smoothing of direct-exchange in zonal analysis
[DE84-002612] 22 p3595 N84-32770
Second- and third-order upwind difference schemes for hyperbolic conservation laws
[NASA-TM-85959] 22 p3644 N84-33108

CONSISTENCY
Constant-output atomizer — Inhalation therapy and aerosol research
[NASA-CASE-MFS-25831-1] 03 p0370 N84-12406
Notions of dependency satisfaction
[AD-A135303] 08 p1211 N84-17902
Tests for preference
[MATH-CENTRE-TRACTS-162] 08 p1217 N84-17939
Performance consistency on a perceptual-motor task as a correlate of achievement motivation
[AD-A135933] 10 p1552 N84-20170
The relationship between exhaustivity and consistency at the optimum indexing level 16 p2565 N84-26462

CONSOLES
NT REMOTE CONSOLES
Manufacturing Methods and Technology (MM and T) specifications for miniature cathode ray tube
[AD-A132797] 05 p0675 N84-14430
Device 2E6 (ACMS) Air Combat Maneuvering Simulator instructor console review
[AD-A138972] 13 p1935 N84-22587
A man-machine interface concept for a state-of-art, shipboard, command/control console
[AD-P002894] 13 p1980 N84-22854

CONSOLIDATION
Finite element investigations of thermo-elastic and thermo-plastic consolidation 11 p1667 N84-20875
User's manual for SAC-3: A 3-dimensional nonlinear, time dependent soil analysis code using the bounding surface plasticity model
[AD-A137782] 18 p2853 N84-28114
Mechanical properties of a shock consolidated steel powder
[DE84-003573] 20 p3158 N84-30058
Processing and consolidation of rapidly solidified alloys: A technology assessment
[DE84-014673] 22 p3557 N84-32523

CONSTANT
Thermodynamic model of creep at constant stresses and constant strain rates
[AD-A139883] 15 p2317 N84-24908

CONSTANTS
NT SOLAR CONSTANT
NT TIME CONSTANT
On the Harnack constant and the boundary behavior of Harnack functions 04 p0576 N84-13796
The generalized Euler-Mascheroni constants
[NASA-TP-2264] 06 p0906 N84-15880
The generalized Euler-Mascheroni constants 06 p0927 N84-16024
The Froude number for solitary waves
[AD-A134548] 07 p1002 N84-16498
The optical spectra of aerosols
[AD-A135687] 09 p1377 N84-18993
NRL (Naval Research Laboratory) plasma formulary, revised
[AD-A135787] 09 p1391 N84-19086
The transfer of atoms, ions and molecular groups in solution. Part 3: Monte Carlo methods for the evaluation of rate constants
[AD-A142335] 20 p3147 N84-29983
The reliability of standard rate constants for rapid electrochemical reactions
[AD-A142445] 20 p3148 N84-29989

Inversion of spectral lineshapes to yield collisional rate constants
[AD-A142661] 20 p3149 N84-29994
Cooling of semiinfinite body under conditions of nonlinear heat transfer at surface
21 p3483 N84-32075
Experimental determination of the inertia constants of an airplane or of a missile
[NASA-TM-77767] 23 p3689 N84-33361

CONSTELLATIONS
NT ANDROMEDA CONSTELLATION
NT CEPHEUS CONSTELLATION
NT CYGNUS CONSTELLATION
NT LYRA CONSTELLATION
NT SCORPIUS CONSTELLATION
NT SCUTUM CONSTELLATION
NT TAURUS CONSTELLATION
Time-resolved spectrophotometry of the nova-like cataclysmic variables RW trianguium and UX Ursa Majoris 13 p2069 N84-23408

CONSTITUTIONAL DIAGRAMS
U PHASE DIAGRAMS

CONSTITUTIVE EQUATIONS
Research and development program for the development of advanced time-temperature dependent constitutive relationships. Volume 1: Theoretical discussion
[NASA-CR-168191-VOL-1] 01 p0094 N84-10613
Research and development program for the development of advanced time-temperature dependent constitutive relationships. Volume 2: Programming manual
[NASA-CR-168191-VOL-2] 01 p0094 N84-10614
Constitutive equations for the creep behavior of nickel-base alloys for High Temperature Reactor (HTR) components in the temperature range 1023-1273 K
[JUEL-1843] 05 p0657 N84-14318
Stiffness changes in unidirectional composites caused by crack systems
[CA-8311] 06 p0796 N84-15198
Finite element analysis of moisture and external loading effects in composites 06 p0799 N84-15211
Propellant nonlinear constitutive theory extension: Preliminary results
[AD-A133364] 06 p0812 N84-15287
Finite deformation of viscoelastic disks
[DE84-002795] 12 p1827 N84-21908
A tensor constitutive equation for turbulent flow
15 p2314 N84-24888
Experimental verification of constitutive equations for plasticity under biaxial, cyclic and nonradial loading conditions — of austenitic steel
[REPT-5011202-81-1] 17 p2625 N84-26798
Experimental verification of constitutive equations for creep and the interaction of creep and plasticity under biaxial loading conditions
[REPT-5011202-81-3] 17 p2625 N84-26800
Problems of constitutive modeling and stability of dissipative bodies
[ISSN-0208-5658] 19 p3081 N84-29551

CONSTRAINTS
NT METEOROLOGICAL PARAMETERS
Modified quasilinearization algorithm for optimal control problems with nondifferential constraints and general boundary conditions. Part 1: Theory
[PB83-226044] 01 p0135 N84-10885
Modified quasilinearization algorithm for optimal control problems with nondifferential constraints and general boundary conditions. Part 2: Examples
[PB83-226036] 01 p0135 N84-10886
A new algorithm for constrained nonlinear least-squares problems, part 1
[NASA-CR-174480] 02 p0283 N84-11855
Small auxiliary power unit design constraints
03 p0334 N84-12172
Constraints on the scale of toroidal-fusion experiments with application to the design of a helical-axis stellarator
[DE83-016812] 03 p0449 N84-12950
Stability, vibration and passive damping of partially restrained imperfect columns
[NASA-TM-85697] 04 p0548 N84-13608
Exploiting temporal knowledge to organize constraints
[AD-A133417] 06 p0899 N84-15838
Constrained function minimization. Comparison of the augmented Lagrangian and sequentially increasing penalty method
[PB83-217265] 06 p0903 N84-15863
Sufficiency of exact penalty minimization
[AD-A134559] 07 p1063 N84-16898
Constraint driven synthesis of hardware design
06 p1207 N84-17870
Systems/operations technology
09 p1266 N84-18278
Applications of natural constraints in critical point theory to periodic solutions of natural Hamiltonian systems
[AD-A136348] 09 p1373 N84-18968
Small wind systems field evaluation. Volume 1: Executive summary and program description
[DE84-006916] 12 p1844 N84-22023
The role of DBMS in design research
12 p1891 N84-22317
Effects of a negative G strap on restraint dynamics and human impact response
[AD-A136642] 13 p2024 N84-23121
Passive Arm Restraint Curtain (PARC) for Navy aircraft ejection seats
[AD-A139435] 14 p2103 N84-23615
Investigation of thermospheric winds relative to space station orbital altitudes
[NASA-TM-82577] 15 p2371 N84-25220
Fundamental design problems of distributed systems for the hard real-time environment
[AD-A139996] 15 p2392 N84-25358
Research in adaptive control hybrid and constrained structure systems
[AD-A140496] 16 p2547 N84-26345
Computer-aided optimal design of constrained dynamic systems 17 p2675 N84-27040
Methods of analyzing processes of plastic working of metal, part 3 19 p2990 N84-28949
Methods of analyzing processes of plastic working of metal, part 2 19 p2990 N84-28950
Research into self-timed VLSI circuits
[AD-A141871] 19 p3014 N84-29103
An iterative method for restoring noisy blurred images
[AD-A142201] 19 p3016 N84-29122
Limiting load capacity and weld measurements
[ISSN-0208-5658] 19 p3033 N84-29241
On the equivalence of logical databases
[AD-A141541] 19 p3085 N84-29579
Testament of general boundary conditions and point-wise state variable constraints in optimum design for static and dynamic response
[PB84-192749] 20 p3204 N84-30356
Bias removal for conventional magnetotelluric data
[DE84-012189] 20 p3241 N84-30579
The application of convolutional codes to continuous phase modulated communication channels
21 p3381 N84-31457
Retractable tie-down device
[AD-D011079] 21 p3413 N84-31643
Flight operation manual for the MI-8 helicopter
[AD-A143860] 23 p3693 N84-33407

CONSTRUCTION
Deputy Minister Svechnikov on civil aviation construction projects 01 p0001 N84-10003
Uzbek SSR city of Shakhrisabz opens new airport: Tourism planned 01 p0001 N84-10007
Prestressed pavement accelerated testing program
[PB83-225763] 01 p0059 N84-10385
Evaluation of innovative concepts relating to prestressed concrete pavements, volume 5
[PB83-222349] 01 p0059 N84-10386
Development of a point-electrode conductivity salinometer with high-spatial-resolution for use in very-saline solutions
[DE83-011170] 01 p0085 N84-10550
Microcomputers: A tool for planning and scheduling construction projects
[PB83-211201] 01 p0160 N84-11053
Ground coupled heat-pump-system experimental results
[DE83-014011] 03 p0373 N84-12427
Development of a continuous monitor for detection of toxic organic compounds
[PB83-234922] 03 p0378 N84-12461
Initial operation of the compressed air experiment at Pittsfield, Illinois
[DE83-016930] 03 p0404 N84-12643
Construction and verification of a finite-element method for nonisothermal flows in porous media
[DE83-017158] 04 p0536 N84-13522
The use of cyclone modeling in the erection of precast segmental aerial construction
[AD-A132885] 05 p0863 N84-14358
Computer simulation of construction operations
05 p0718 N84-14704
Measures against errors in the building process
[NRC/CNR-TT-2067] 06 p0814 N84-15295
Thermal and electric energy and desalination with a salt gradient solar pond
[DE84-900416] 08 p1181 N84-17691
Authorizing appropriations to the National Aeronautics and Space Administration for fiscal year 1985
[H-REPT-98-629] 11 p1753 N84-21441
Operational modules for space station construction
[NASA-TM-85772] 12 p1779 N84-21608
Re-design and fabrication of titanium multi-wall Thermal Protection System (TPS) test panels
[NASA-CR-172247] 12 p1780 N84-21610
Reinforcing materials based on magnesium oxide
12 p1783 N84-21637
TLINES: A computer program for circuits of transmission lines
[AD-A139596] 14 p2142 N84-23844
Synthesis of multiple-valued logic functions based on a modular design approach
[AD-P002378] 14 p2195 N84-24169
Installation of large-size technological equipment (selected pages)
[AD-A139069] 15 p2318 N84-24910
Multi-family update to the passive solar construction handbook 16 p2516 N84-26149
Evaluation of selected commercial construction equipment for bomb damage repair
[AD-A140907] 17 p2611 N84-26714
Sweden's STU proposes funding for metals, ceramics approach 17 p2640 N84-26890
DANTE: A semantic data model for use in the construction sector
[KU-IB-17/83] 17 p2754 N84-27480
The performance of civil airport pavement with lime-cement-flyash base course
[FAA-PM-84-10] 19 p2969 N84-28815
Limiting load capacity and weld measurements
[ISSN-0208-5658] 19 p3033 N84-29241
Advanced strain-isolation-pad material with bonded fibrous construction
[NASA-CR-166599] 23 p3723 N84-33592
More use of helicopters in construction work urged
24 p3851 N84-34424

CONSTRUCTION IN SPACE
U ORBITAL ASSEMBLY

CONSTRUCTION INDUSTRY
Interdisciplinary aspects of technical measurements
02 p0233 N84-11530
Building systems and smoke control
04 p0511 N84-13348
Symposium on Computers in Construction
[CSIR-S-285] 05 p0717 N84-14695
Information systems design in construction management 05 p0717 N84-14696
Integrated budget control using a desktop computer
05 p0717 N84-14697
Integrated bid estimate systems for contractors
05 p0717 N84-14699
Tendering on a micro computer
05 p0717 N84-14700
Site computers 05 p0717 N84-14701
Keeping your fingers crossed won't help
05 p0718 N84-14702
Computers for the smaller contractors
05 p0718 N84-14703
Construction planning and control: Current practice and continuing challenges 05 p0718 N84-14706
Activities in metal manufacturing
23 p3727 N84-33618
More use of helicopters in construction work urged
24 p3851 N84-34424

CONSTRUCTION MATERIALS
Applications of composite materials in helicopter construction
[AD-A136678] 10 p1427 N84-19336
Corrosion control for reinforced concrete
[AD-A139974] 15 p2317 N84-24909

CONSULTING
Strategic explanations for a diagnostic consultation system
[AD-A140014] 15 p2396 N84-25371

CONSUMABLES (SPACECRAFT)
NT CONSUMABLES (SPACECREW SUPPLIES)
NT DEHYDRATED FOOD
NT PROPELLANT STORAGE
NT SPACE LOGISTICS
NT WORKING FLUIDS

CONSUMABLES (SPACECREW SUPPLIES)
NT DEHYDRATED FOOD
NT POTABLE WATER
Biological life support system — for space stations
10 p1444 N84-19430
Food specialists discuss cosmonaut diet
19 p2971 N84-28835

CONSUMERS
Search among queues
[AD-A131639] 03 p0424 N84-12773
Legislation needed to clarify future of consumer protection and federal preemption after the Civil Aeronautics Board sunsets
[PB84-210103] 22 p3533 N84-32371

CONSUMPTION
NT ENERGY CONSUMPTION
NT FUEL CONSUMPTION
NT OXYGEN CONSUMPTION
Cerebral metabolism and blood brain transport: Toxicity of organophosphorous compounds
[AD-A142705] 22 p3630 N84-33005

CONTACT LENSES
Ophthalmological investigation among contact lens wearers in military service
[REPT-AR/MHAM-1983-1] 21 p3458 N84-31940
CONTACT RESISTANCE
Development of contact materials made by internal oxidation
[BMFT-FB-T-83-196] 07 p0977 N84-16332
Sliding electric contacts in space: Observations on existing technology and new trends in low-speed applications 09 p1294 N84-18455
Development of copper-coated aluminum-shielded wire 11 p1719 N84-21214
Frictional hold of various sheave configurations on synthetic ropes
[AD-A139808] 15 p2343 N84-25067
CONTACTS (ELECTRIC)
U ELECTRIC CONTACTS
CONTACTS (GEOLOGY)
Formation of chondrules by drag heating in dust-enriched environments 11 p1756 N84-21463
CONTAINERLESS MELTS
Space Processing Applications Rocket (SPAR) project SPAR 7
[NASA-TM-82535] 01 p0018 N84-10112
Materials processing in space program tasks-supplement
[NASA-TM-82548] 03 p0338 N84-12196
Containerless electromagnetic levitation melting of Cu-Fe and Ag-Ni alloys
[NASA-TM-82553] 03 p0352 N84-12288
The evaporation of iron and its alloying elements, copper and manganese, under reduced pressure using the levitation melting technique
[BLL-OA-TRANS-3117-(6196.3)] 09 p1261 N84-18367
Containerless high purity pulling process and apparatus for glass fibers
[NASA-CASE-MFS-25905-2] 22 p3564 N84-32569
The influence of containerless undercooling and rapid solid-state quenching on the superconductive and magnetic properties of some clustering alloy systems
[NASA-CR-171144] 23 p3718 N84-33566
CONTAINERS
Flame radiation and liner heat transfer in a tubular-can combustor
[NASA-TM-83538] 04 p0485 N84-13188
Consistent hydrodynamic mass for parallel prismatic beams in a fluid-filled container
[DE84-010381] 18 p2853 N84-28116
CONTAINMENT
A laboratory test for evaluating the fire containment characteristics of aircraft class D cargo compartment lining material
[DOT/FAA/CT-83/44] 01 p0006 N84-10035
Permanent magnet generator rotor containment study
[AD-A131252] 01 p0138 N84-10908
Simplified methods for the inelastic analysis of stiffened shells
[DE83-016518] 02 p0232 N84-11525
New developments in composite-flywheel containment
[DE83-012583] 03 p0383 N84-12497
Flywheel rotor and containment technology development
[DE84-005742] 11 p1665 N84-20864
Heat Transfer Coefficient in Containments (HTCC): A heat transfer model for gas-vapor mixtures
[BMI-1983-022] 16 p2485 N84-25939
CONTAMINANTS
NT RADIOACTIVE CONTAMINANTS
NT TRACE CONTAMINANTS
Orbiter catalytic/noncatalytic heat transfer as evidenced by heating to contaminated surfaces on STS-2 and STS-3 01 p0024 N84-10153
Shuttle measured contaminant environment and modeling for payloads. Preliminary assessment of the space telescope environment in the shuttle bay
[NASA-TM-85111] 03 p0341 N84-12216
Vehicle-emission characteristics using mechanically emulsified alcohol/diesel fuels
[DE83-016012] 03 p0406 N84-12656
Optical thickness as related to pollutant episodes and the concentration of visibility degrading pollutants
[NASA-CR-175203] 10 p1531 N84-20028
Atomic and molecular processes in discharge cleaning plasmas 11 p1736 N84-21322
Coherent laser radar remote sensing
[AD-A139448] 14 p2151 N84-23885
Importance and definition of materials in tribology. Status of understanding 14 p2152 N84-23893
Future directions of research in adhesion and friction. Status of understanding 14 p2153 N84-23896
Numerical simulation of the flow of a chemical contaminant subjected to a jet impingement
[AD-P002936] 14 p2196 N84-24176
Measurement of small amounts of xenon-133 in air: Report on a series of measures and tests in Stockholm and in Ljungbyhed
[FOA-C-20515-A1] 15 p2366 N84-25197
A review of the basic concepts of dense gas dispersion with special regard to modelling of heat transfer
[QUEL-1512/84] 16 p2487 N84-25952
Revision and experimental verification of the hazard assessment computer system models for spreading, movement, dissolution, and dissipation of insoluble chemicals spilled onto water, volume 1
[AD-A140635] 17 p2724 N84-27337
Nitroguanidine wastewater pollution control technology: Phase 2 wastewater characterization and analytical methods development for organics
[AD-A141178] 18 p2611 N84-27844
Basic mathematical formulation of contaminant dispersions — atmospheric pollution 18 p2878 N84-28274
Purification of nitrogen tetroxide for long-term reliability 20 p3137 N84-29920
Effect of living conditions in confined space on formation of bacterial aerosol 20 p3255 N84-30659
System for the removal of airborne contaminants from aircraft environmental control systems
[AD-D011172] 23 p3727 N84-33615
A study of pollutant dispersal in a 2-dimensional field including gravity effects
[AD-A144295] 24 p3900 N84-34699
CONTAMINATION
NT FUEL CONTAMINATION
NT SPACECRAFT CONTAMINATION
Motorized thermal control shade — for spacecraft 10 p1444 N84-19436
Temporal and spatial gaseous HCl concentrations in the near field STS postlaunch environment, Kennedy Space Center, Florida
[AD-A136935] 10 p1532 N84-20032
Priorities for detailed quality assessments of the National Defense Stockpile nonfuel materials
[NMAB-403] 13 p2006 N84-23011
Preservation, storage, handling and transportation of ESA spacecraft hardware
[ESA-PSS-01-202-ISSUE-1] 16 p2475 N84-25868
Surface contamination from actinide solutions
[AERE-R-11046] 18 p2816 N84-27879
A real-time air dispersion modeling system
[AD-A141405] 19 p3052 N84-29368
Flexible, resilient anti-contamination baffle
[AD-D011111] 22 p3542 N84-32421
An evaluation of the Boeing wedge test for the assessment of CFRP surface pretreatment
[AD-A144050] 23 p3711 N84-33526
Thirteenth Space Simulation Conference. The Payload: Testing for Success
[NASA-CP-2340] 24 p3861 N84-34468
Design study of ion anti-contamination system
[AD-A144197] 24 p3963 N84-35097
CONTENT
NT BONE MINERAL CONTENT
Content duplication among documents on specific subjects 21 p3516 N84-32274
CONTINENTAL DRIFT
Proterozoic to mesozoic mobile-belt geology, Pensacola Mountains, Antarctica 14 p2162 N84-23947
Paleomagnetic studies in Antarctica 14 p2162 N84-23950
CONTINENTAL MARGINS
U CONTINENTAL SHELVES
CONTINENTAL SHELVES
Application of remote sensing for studies, mapping and forecasting of eddies on the Norwegian continental shelf 03 p0399 N84-12605
Data validation and summary for the NRL remote sensing experiment: Phelps Bank, July, 1982. Part 2: Meteorology
[AD-A132105] 04 p0553 N84-13646
A satellite study of ocean internal waves
[PB83-248708] 04 p0556 N84-13661
Winter currents on the eastern Bering Sea shelf
[PB83-248823] 04 p0570 N84-13753
Speculations on the petroleum resources of Antarctica 14 p2160 N84-23938
Quaternary sedimentation on the Alaskan Beaufort shelf: Sediment sources, glacioeustatism and regional tectonics 14 p2165 N84-23968
Georges Bank monitoring program: Analysis of trace metals in bottom sediments during the second year of monitoring
[PB84-169465] 16 p2534 N84-26269
Shelf waves in presence of currents and stability of boundary currents 17 p2699 N84-27193
Canyon and slope processes study. Volume 1: Executive summary
[PB84-169481] 17 p2738 N84-27391
Canyon and slope processes study. Volume 2: Physical processes
[PB84-169499] 17 p2738 N84-27392
Canyon and slope processes study. Volume 3: Biological processes
[PB84-169507] 17 p2738 N84-27393
Subalkaline basaltic magmatism of active ocean-continent transition zones 18 p2857 N84-28144
Symposium Proceedings: A National program for the assessment and development of the mineral resources of the United States Exclusive Economic Zone
[US-CIRC-929] 18 p2866 N84-28192
Panel 1A: Geologic studies related to oil and gas development in the EEZ 18 p2866 N84-28194
Panel 2A: Offshore oil and gas technology assessment 18 p2866 N84-28196
Panel 2B: Engineering-technology assessment, hard minerals 18 p2866 N84-28197
Seismicity of the North-Eastern Sakhalin shelf 19 p3061 N84-29422
Continental shelf processes affecting the oceanography of the South Atlantic Bight
[DE84-010113] 20 p3251 N84-30635
Proceedings of Tsunami Symposium
[PB84-183482] 20 p3252 N84-30638
Environmental geologic studies on the United States mid- and north Atlantic outer continental shelf area, 1980-1982. Volume 1: Executive summary
[PB84-187939] 20 p3252 N84-30639
Environmental geologic studies on the United States mid- and north Atlantic outer continental shelf area, 1980-1982. Volume 2: Mid-Atlantic region
[PB84-187947] 20 p3252 N84-30640
Environmental geologic studies on the United States mid-and north Atlantic outer continental shelf area, 1980-1982. Volume 3: North Atlantic region
[PB84-187954] 20 p3252 N84-30641
South Atlantic physical oceanography study (year 5). Volume 1: Executive summary
[PB84-187855] 21 p3451 N84-31899
Shelf circulation studies on the northeastern United States Continental Shelf 23 p3803 N84-34111
CONTINENTS
NT AFRICA
NT ASIA
NT AUSTRALIA
NT EUROPE
NT NORTH AMERICA
NT SOUTH AMERICA
Two types of continental breakup 18 p2863 N84-28178
CONTINGENCY
Bounding the costs of hedging against Space Shuttle contingencies: A policy analytic approach
[N1829-AF] 02 p0184 N84-11196
An analysis of Department of Defense financial and acquisition policies in support of military contingency requirements
[AD-A140820] 17 p2773 N84-27607
Guidelines for contingency planning NASA (National Aeronautics and Space Administration) ADP security risk reduction decision studies
[PB84-189636] 20 p3268 N84-30737
CONTINUITY (MATHEMATICS)
On some extensions of a theorem of Hardy and Littlewood 04 p0575 N84-13784
A boundary modulus of continuity for a class of singular parabolic equations
[AD-A138019] 12 p1893 N84-22331
The equicontinuous structure relation and extension of functions defined on G-spaces
[MC-ZW-192/83] 13 p2034 N84-23194
Poisson integrals of absolutely continuous and other measures
[CTH-MATH-1983-10] 13 p2036 N84-23210
Complemented Scharfetter-Gummel condition 17 p2636 N84-26864
CONTINUITY EQUATION
Computations of turbulent recirculating flows with fully coupled solution of momentum and continuity equations
[DE84-001529] 04 p0535 N84-13518
On the singularities of certain nonlinear partial differential equations 04 p0575 N84-13787
A survey of solution techniques for nonlinear finite element equations
[NLR-MP-82027-U] 06 p0903 N84-15861
Continuum modeling of stick charge combustion 13 p1947 N84-22662
Complemented Scharfetter-Gummel condition 17 p2636 N84-26864
Some computational aspects of the stability analysis of nonlinear structures
[NLR-MP-82034-U] 20 p3204 N84-30351
Variational objective analyses for cyclone studies 24 p3924 N84-34840

CONTINUOUS RADIATION
CW (Continuous Wave) antenna design and testing
[AD-A131291] 02 p0210 N84-11369
The 60-GHz gyrotron development program
[DE83-012922] 02 p0214 N84-11402
Laser and electron beam processing of semiconductors: CW beam-recrystallized polysilicon as a device-worthy material
[AD-A133759] 05 p0753 N84-14942
Laser and electron beam processing of semiconductors: CW beam processing of ion implanted silicon
[AD-A133758] 05 p0754 N84-14943
Effect of radiofrequency radiation on DNA duplex stability and replication
[AD-A133526] 07 p1042 N84-16759
The performance of an LMS (Least Mean Square) adaptive array with frequency hopped signals
[AD-A136461] 09 p1298 N84-18489
Analysis of the output mode from 60 GHz, 200 kW pulsed and CW gyrotrons
[DE84-004586] 10 p1497 N84-19785
Self-pulsing, breathing and chaos in optical bistability and the laser with injected signal
14 p2232 N84-24366
Note on the optimum search strategy for uniformly distributed CW transmitters — implications for Project Seti
16 p2480 N84-25904
Low-frequency radio navigation system
[NASA-CASE-NPO-15264-1] 18 p2791 N84-27713
Near infrared observations of the visual reflection nebulae NGC 1023, NGC 2023, and NGC 2068
18 p2948 N84-28695
Comparison of simulation and measurement techniques for continuous waves and pulses
[SNIAS-841-422-103] 21 p3388 N84-31501
Universal control grid modulator
[AD-D011106] 22 p3580 N84-32672
Measurement of specific absorption rate in human phantoms exposed to simulated Air Force radar emissions
[AD-A143570] 22 p3631 N84-33007

CONTINUOUS SPECTRA
Very recent IUE observations of 2 BL Lacertae orbits
15 p2424 N84-25561
Near infrared observations of the visual reflection nebulae NGC 7023, NGC 2023 and NGC 2068
16 p2570 N84-26497

CONTINUOUS WAVE LASERS
Nd(3+): Yag laser pumped simultaneously by CW and pulsed light
[AD-A131092] 01 p0066 N84-10564
Microwave backscattering from short gravity waves. A deterministic, coherent and dual-polarized laboratory study
[AD-A131217] 01 p0111 N84-10719
Selective laser ionization for mass-spectral isotopic analysis
[DE83-017303] 03 p0381 N84-12483
Laser and electron beam processing of semiconductors: CW beam-recrystallized polysilicon as a device-worthy material
[AD-A133759] 05 p0753 N84-14942
Laser and electron beam processing of semiconductors: CW beam processing of ion implanted silicon
[AD-A133758] 05 p0754 N84-14943
Modeling study of a CW HF resonance transfer laser medium
[AD-A134866] 08 p1184 N84-17580
Distance measurement to line of sight obstacles close to roads, a commission from Statens Vaeg och Trafikinstitute (VTI) — distance measuring with a continuous wave laser
[FOA-C-30333-E1] 08 p1165 N84-17586
A CW-CO2 laser range finder using heterodyne detection and on-off amplitude modulation
[PHL-1983-34] 12 p1821 N84-21871
Spectrophone stabilized laser with line center offset frequency control
[NASA-CASE-NPO-15516-1] 13 p1994 N84-22943
Nonlinear interactions between the pumping kinetics, fluid dynamics and optical resonator of CW fluid flow lasers
[AD-A139189] 14 p2150 N84-23682
Theoretical and experimental investigations for the construction of a continuous, RF-excited waveguide CO2-laser with high frequency tunability and high output power
[IPF-83-1] 14 p2151 N84-23689
Nonlinear optical interfaces 14 p2233 N84-24396
Room-temperature thermal optical bistability in thin-film interference filters and dye-filled etalons
14 p2234 N84-24402
Design and calibration of a CW coherent laser radar
[FOA-C-30345-E1] 15 p2320 N84-24930
Cutting of fiber reinforced polymers with a CW CO-2 laser: An experimental study
[FOA-C-20527-D9] 19 p3030 N84-29220
Nd-3+ Beta prime prime alumina platelet laser
[AD-A142797] 21 p3409 N84-31621
Time-dependent oscillations in a CW HF chemical laser unstable resonator
[AD-A142966] 21 p3409 N84-31622
Medical applications of lasers
21 p3452 N84-31904
Transverse flow CW atomic iodine laser system
[AD-D011098] 22 p3601 N84-32810
CW HF R-branch laser
[AD-D011120] 22 p3601 N84-32813
Hermetic single longitudinal mode CW lasers coupled to single mode optical fiber pigtails
[AD-A143626] 23 p3754 N84-33792
Using an airborne CO2 CW laser for free stream airspeed and windshear measurements 24 p3850 N84-34417
Continuous wave (CW) diode laser instrumentation for rendezvous and docking maneuvers in geosynchronous orbits 24 p3908 N84-34752
Small continuous wave (CW) HF chemical laser
[AD-A144322] 24 p3908 N84-34756

CONTINUOUS WAVE RADAR
Pulse signals in heterodyne and homodyne detection
[ESA-TT-809] 03 p0362 N84-12357
A FMCW radar ranging device for the teleoperator maneuvering system 06 p0930 N84-16045
HF omnidirectional spectral CW auroral radar (HF-OSCAR) at very high latitude. Part 1: Technique
[DMI-GEOPHYS-PAPERS-R-87]
19 p3010 N84-29079
The behavior of very large short pulse antennas
[DE84-012372] 21 p3388 N84-31500

CONTINUOUS WAVES
U CONTINUOUS RADIATION

CONTINUUM FLOW
The kinetic theory of gases with applications in rarefied gas dynamics
[PREPRINT-746] 02 p0221 N84-11449

CONTINUUM MECHANICS
Nonlinear systems in infinite dimensional state spaces
[AD-A136530] 09 p1384 N84-19042
A microchemical derivation of the differential equations of interfacial statics. 3: Line tension
15 p2307 N84-24844
The status of the simple fluid
15 p2314 N84-24886
Applying molecular dynamics to fracture
[AD-P003104] 16 p2467 N84-25809
Similarity transformations of the Euler equations and their numerical evaluation 16 p2540 N84-26306
The principle of virtual work and associated variational principles
[AD-B071515] 16 p2549 N84-26361
Some remarks on the definition of material isotropy
17 p2761 N84-27539
On continuous distributions of dislocations in nonlocal elasticity
[AD-A141858] 19 p3036 N84-29257
Identification of strain-softening properties and computational predictions of localized fracture
[AD-A141866] 19 p3036 N84-29258
Nonlocal continuum theory for dislocation and fracture
[AD-A142538] 20 p3202 N84-30340
Some computational aspects of the stability analysis of nonlinear structures
[NLR-MP-82034-U] 20 p3204 N84-30351
General condition of the limiting state for isotropic materials
[ISSN-0208-5658] 23 p3712 N84-33530
Elastic wave propagation in a periodically trilaminated composite 24 p3957 N84-35056

CONTINUUM MODELING
Time dependent quasifracture nucleation and propagation 15 p2349 N84-25097
Mathematical modelling of a continuum. Related modal analysis. Part 3: Programmer's manual
[ESA-CR(P)-1862-VOL-3] 16 p2553 N84-26377
Mathematical modelling of a continuum. Related modal analysis. Volume 2: User's manual
[ESA-CR(P)-1862-VOL-2] 16 p2553 N84-26379
Continuum theory for fiber suspensions
[DE84-012258] 21 p3402 N84-31584

CONTINUUMS
Nonlinear acoustics in a dispersive continuum: Random waves, radiation pressure, and quantum noise
04 p0594 N84-13920
Computer programs for continuum measurements at the Metsaehovi Radio Research Station
[REPT-S-130] 09 p1370 N84-18943
Differential charge transfer and continuum electron capture studies for ions in atomic hydrogen
[DE84-009675] 19 p3102 N84-29708

CONTOURS
An extremum principle for shape from contour
[AD-A131321] 02 p0272 N84-11780
Interactive surface visualization using raster graphics
[AD-A132548] 04 p0579 N84-13819
Portable FORTRAN contour-plotting subprogram
[DE83-017422] 04 p0582 N84-13846
The possibility of reduction of the subjective redundance of image signals with particular reference to contour coding — visual perception
[FUB-43-1982] 05 p0748 N84-14911
Edge- and contour detection for correction of low-pass filtered images
[PB83-217489] 06 p0918 N84-15969
DSN microwave antenna holography
10 p1474 N84-19624
Turbulent flow over small amplitude solid waves
[AD-A137676] 11 p1653 N84-20789
An operator calculus for surface and volume modeling
12 p1869 N84-22180
Diagnostic algorithms for contour dynamics
[AD-P002947] 14 p2198 N84-24187
Contour-to-grid transformation: Development of a method for generation of a sparse grid structure out of terrain elevation contours
[FOA-C-30349-E1] 15 p2359 N84-25156
Geometrical transformation of binary images
[FOA-C-30342-E1] 15 p2397 N84-25380
The curvature primal sketch
[AD-A142460] 20 p3281 N84-30827
Analytical and experimental investigation of stator endwall countouring in a small axial-flow turbine
[NASA-TP-2309] 22 p3536 N84-32388
Microwave terrestrial link rain attenuation prediction parameter analysis
[PB84-207984] 22 p3578 N84-32666
Three-axis gaging probe
[DE84-015087] 23 p3752 N84-33784
Contouring program for generation of sea surface temperature maps
[INPE-3260-RPE/484] 24 p3935 N84-34906

CONTRACT INCENTIVES
Analysis of incentives for productivity-enhancing investment
[AD-P002770] 13 p2053 N84-23317
The industrial modernization incentives program: An experimental effort to improve defense contractor productivity
[AD-P002771] 13 p2053 N84-23318
Award fee contract provisions as a program management tool
[AD-P002776] 13 p2054 N84-23323
Nuclear reactor: On schedule and under cost
[AD-P002790] 13 p2056 N84-23337
Improving the effectiveness of award fee contracts for program management support services
[AD-P002827] 13 p2062 N84-23372
Contract requirements: A key to controlling DoD acquisition costs
[AD-P002828] 13 p2062 N84-23373
Incentive contracts and cost growth
[AD-A140930] 18 p2943 N84-28663

CONTRACT MANAGEMENT
Lessons learned--advanced attack helicopter
[AD-A135521] 08 p1104 N84-17177
A strategy for improving overhead cost control
[AD-A134661] 08 p1238 N84-18092
Multiyear subcontractor selection criteria analysis
[AD-A135638] 09 p1397 N84-19126
Q-GERT model of the contracting cycle
[AD-A135639] 09 p1398 N84-19127
Mobilization and defense management technical reports series. Management implications of industrial support capabilities for Space Shuttle operations
[AD-A137460] 10 p1438 N84-19390
Requirements analysis for forward funding tracking system, volume 1
[AD-A136840] 10 p1591 N84-20425
Requirements analysis for milestone tracking system, volume 2
[AD-A136841] 10 p1591 N84-20426
Proceedings of the Federal Acquisition Research Symposium with Theme: Government, Industry and Academe: Synergism for Acquisition Improvement
[AD-A137700] 13 p2049 N84-23293
Mechanized contract document preparation and abstract system
[AD-P002750] 13 p2050 N84-23297
Designing the equitable risk contract
[AD-P002756] 13 p2051 N84-23303
Assumption of risk in the R and D environment
[AD-P002757] 13 p2051 N84-23304
An analysis of the acquisition strategy decision process along three dimensions of the acquisition improvement program
[AD-P002758] 13 p2051 N84-23305

Skunkworks 81 revisited: An update on acquisition strategy
[AD-P002759] 13 p2051 N84-23306
Assessing contracting workforce requirements in the matrixed organization
[AD-P002760] 13 p2052 N84-23307
Cost accounting standards: A time for government and industry action
[AD-P002767] 13 p2053 N84-23314
Government - contractor interaction
[AD-P002768] 13 p2053 N84-23315
Needed help for the Federal Acquisition Regulation Council
[AD-P002769] 13 p2053 N84-23316
Competitive procurements: The synergistic linkage among government, industry and academe
[AD-P002773] 13 p2053 N84-23320
Increasing spares competition in AFLC (Air Force Logistics Center)
[AD-P002775] 13 p2054 N84-23322
Award fee contract provisions as a program management tool
[AD-P002776] 13 p2054 N84-23323
Nailing down the liability issue once and for all
[AD-P002777] 13 p2054 N84-23324
Does the Prompt Payment Act insure timely contract payment?
[AD-P002778] 13 p2054 N84-23325
The make or buy decision--its nature and impact
[AD-P002779] 13 p2054 N84-23326
Multi-year procurement a 'Team approach'
[AD-P002780] 13 p2055 N84-23327
Cost risk and contract type: A normative model
[AD-P002781] 13 p2055 N84-23328
Contracting initiative: Best proposal for price
[AD-P002782] 13 p2055 N84-23329
A cost based acquisition planning model utilizing expert system concepts
[AD-P002783] 13 p2055 N84-23330
An application of the causal-integrative model
[AD-P002786] 13 p2056 N84-23333
An automated airframe production cost model
[AD-P002787] 13 p2056 N84-23334
Risk analysis: Comparing different contract types
[AD-P002788] 13 p2056 N84-23335
Managing for success in defense systems acquisition
[AD-P002789] 13 p2056 N84-23336
Nuclear reactor: On schedule and under cost
[AD-P002790] 13 p2056 N84-23337
Contractor 'Hungriness' and the relative profitability of DoD business
[AD-P002796] 13 p2057 N84-23342
Cost realism: Assuring more realistic contractor cost proposals
[AD-P002800] 13 p2058 N84-23346
1982 US Army Materiel Development and Readiness Command (DARCOM) integrated logistic support (ILS) study finding on contracting for ILS
[AD-P002805] 13 p2058 N84-23351
Quality at the crossroads
[AD-P002818] 13 p2060 N84-23363
Incentives for product quality need contract, cost, production and field co-operation
[AD-P002819] 13 p2061 N84-23364
A quality improvement strategy for systems acquisition
[AD-P002820] 13 p2061 N84-23365
Engine product performance agreements and the future
[AD-P002821] 13 p2061 N84-23366
Improving the effectiveness of award fee contracts for program management support services
[AD-P002827] 13 p2062 N84-23372
Contract requirements: A key to controlling DoD acquisition costs
[AD-P002828] 13 p2062 N84-23373
Material handling: A target for productivity improvement
[AD-P002829] 13 p2062 N84-23374
The impact of factory automation and robotics on the contracting and acquisition processes
[AD-P002830] 13 p2062 N84-23375
A survey of contractor productivity measurement practices
[AD-P002831] 13 p2063 N84-23376
Strengthening small business participation in Department of Defense extramural research and development
[AD-P002832] 13 p2063 N84-23377
Contractor fraud: Government response
[AD-P002833] 13 p2063 N84-23378
Employment changes resulting from the award of contracts in labor surplus areas
[AD-P002834] 13 p2063 N84-23379
Automating the source selection process
[AD-P002835] 13 p2063 N84-23380
Increasing the Contractor/Subcontractor/Vendor bidding lists
[AD-P002836] 13 p2063 N84-23381
Selection of multiple sources in weapon systems acquisition
[AD-P002837] 13 p2063 N84-23382
PROJMNG FORTRAN: An interactive computer program for use with the defense management simulation exercise
[AD-A140709] 17 p2753 N84-27472
The decision for the optimal price in competitive bidding: The case of a Korean construction company
[AD-A140556] 17 p2770 N84-27585
Contract audit followup: Its impact on defense contracting
[AD-A140627] 17 p2770 N84-27587
Increasing competition for spares within AFLC (Air Force Logistics Command)
[AD-A140751] 17 p2770 N84-27588
Report on the feasibility of designing expert systems for contract price analysis
[AD-A140854] 17 p2770 N84-27590
Incentive contracts and cost growth
[AD-A140930] 18 p2943 N84-28663
System safety in aircraft acquisition
[AD-A141492] 19 p2960 N84-28763
Effectiveness of multi-year and advance procurement contracts
[AD-P003462] 21 p3510 N84-32239
The Program Planning Review (PPR): Milestone or millstone?
[AD-P003493] 21 p3514 N84-32259
Profit responsibilities in the simulation and training equipment industry
[AD-P003497] 21 p3515 N84-32263

CONTRACT NEGOTIATION

Cost problems in international collaboration
[MBB-UA-671-82-OE] 05 p0760 N84-14968
The decision for the optimal price in competitive bidding: The case of a Korean construction company
[AD-A140556] 17 p2770 N84-27585

CONTRACTORS

Computers for the smaller contractors
05 p0718 N84-14703
Photovoltaic energy systems
[DOE/CE-0033/1] 12 p1838 N84-21979
Government - contractor interaction
[AD-P002768] 13 p2053 N84-23315
Analysis of incentives for productivity-enhancing investment
[AD-P002770] 13 p2053 N84-23317
The industrial modernization incentives program: An experimental effort to improve defense contractor productivity
[AD-P002771] 13 p2053 N84-23318
Strengthening small business participation in Department of Defense extramural research and development
[AD-P002832] 13 p2063 N84-23377
Contractor fraud: Government response
[AD-P002833] 13 p2063 N84-23378
Evaluating the availability, role, and performance of subcontractors in the aerospace industry
[AD-A141408] 19 p3114 N84-29788
Viking lander: Creating the science teams
24 p3991 N84-35255

CONTRACTS

Trade agreements on know-how discussed
01 p0054 N84-10349
Management of aerospace contract documentation by industry and government
[DE84-900451] 11 p1746 N84-21396
Management of aerospace contract documentation by industry and government 11 p1752 N84-21434
Photovoltaic energy systems
[DOE/CE-0033/1] 12 p1838 N84-21979
Mechanized contract document preparation and abstract system
[AD-P002750] 13 p2050 N84-23297
Increasing the Contractor/Subcontractor/Vendor bidding lists
[AD-P002836] 13 p2063 N84-23381
The Score technique: An analytical approach for assessing the results of manufacturing reviews
[AD-P002838] 13 p2064 N84-23383
Report to Congress on the Small Business Program of the Department of Energy
[DE84-009107] 15 p2420 N84-25534
Contract audit followup: Its impact on defense contracting
[AD-A140627] 17 p2770 N84-27587
Relevant and irrelevant legal structures: Distinguishing private sector from DOD contracting
[AD-P003241] 18 p2903 N84-28408
Cost and schedule control systems criteria for contract performance measurement, information pamphlet
[DE84-012576] 21 p3516 N84-32269
Text processing in the writing of contracts
[SNIAS-841-422-102] 21 p3519 N84-32297

CONTRAST

NT IMAGE CONTRAST
NT PHASE CONTRAST
A sine-wave grating controller for vision testing
[AD-A135871] 09 p1318 N84-18610
Edge analyzing properties of center/surround response functions in cybernetic vision
[NASA-TM-85809] 16 p2484 N84-25927
Dyes for displays
[BMFT-FB-T-84-100] 16 p2557 N84-26401
Estimating detection range and range loss looking through windshields and Head-Up Displays
[AD-P003161] 17 p2588 N84-26592
Direct performance assessment of HUD (Head-Up Display) display systems using contrast sensitivity
[AD-P003162] 17 p2589 N84-26593
A fast method for computer image enhancement
[INPE-3170-PRE/540] 21 p3465 N84-31965
Atmospheric contrast transmittance monitor
[AD-D011167] 23 p3798 N84-34083

CONTROL

Design environments and the user interface for CAD of control systems 01 p0015 N84-10095
Modeling and simulation techniques
01 p0015 N84-10096
Implementing microprocessor technology in aircraft electrical power generating system control
03 p0336 N84-12185
Building systems and smoke control
04 p0511 N84-13348
Incentives for controlling the performance of high technology and professional employees
[AD-A134074] 06 p0933 N84-16061
X-29 flight-research program
[NASA-TM-86025] 07 p0951 N84-16168
The effects of the space environment on damping materials and damping designs on flexible structures
06 p1110 N84-17217
Scale model testing for control system parameters of large structures
[AD-A135652] 09 p1273 N84-18313
Experimental and analytical investigation of active loads control for aircraft landing gear
10 p1510 N84-19886
CCRS option for TM data distribution
10 p1524 N84-19982
WECS - load controlled pitch - variable load conversion to heat
[DE84-005328] 11 p1674 N84-20922
Advanced solar power systems
18 p2872 N84-28235
Development of a computer aided design package for control system design and analysis for use on a personal computer
[AD-A138065] 18 p2920 N84-28520
Integrated Application of Active Controls (IAAC) technology to an advanced subsonic transport project: Current and advanced act control system definition study, volume 1
[NASA-CR-165631-VOL-1] 19 p2967 N84-28802
Development and flight evaluation of an augmented stability active controls concept with a small horizontal tail
[NASA-CR-165951] 19 p2967 N84-28805
Engineering physiology: New area for use of control theory 20 p3257 N84-30676
Linear systems analysis program: Programmer's manual, version 2.2 (VAX/VMS)
[DE84-010953] 20 p3262 N84-30635
Some aspects of guidance loop design for SAM systems 21 p3350 N84-31251
Digital control loading: A microprocessor-based approach
[AD-P003483] 21 p3512 N84-32250
Static methods in the design of nonlinear automatic control systems
[AD-A143297] 22 p3644 N84-33101
Preliminary design study of a higher harmonic blade feathering control system
[NASA-CR-159327] 23 p3695 N84-33418

CONTROL BOARDS

Signal processing circuit development
[AD-A138648] 13 p1982 N84-22870

CONTROL CONFIGURED VEHICLES

A nonlinear control law for piloting aircraft in the air-to-ground attack phase 03 p0317 N84-12071
Cooperative pilot-optimal augmentation system synthesis for complex flight vehicles
11 p1605 N84-20511
Active suppression of aeroelastic instabilities for forward swept wings 16 p2438 N84-25638

Heat transfer and oil flow studies on a single-stage-to-orbit control-configured winged entry vehicle
[NASA-TM-85833] 20 p3133 N84-29897
CONTROL DATA (COMPUTERS)
Space Shuttle separate-surface control-system study
[NASA-TP-2340] 19 p2967 N84-28801
Automated search for control images on photographs of Earth's surface using spectral analysis
19 p2978 N84-28874
CONTROL DEVICES
U CONTROL EQUIPMENT
CONTROL EQUIPMENT
NT CONTROL STICKS
NT CRYOSTATS
NT PRESSURE REGULATORS
NT PRESSURE SWITCHES
NT SPEED REGULATORS
NT TELEOPERATORS
NT THERMOSTATS
Apparatus for adapting an end effector device remotely controlled manipulator arm
[NASA-CASE-MFS-25949-1] 02 p0229 N84-11501
Status of the SLAC SNOOP diagnostic module for FASTBUS
[DE83-012715] 02 p0290 N84-11903
Tubular battery and transistorized controller outdoor laboratory test program
[DE83-016231] 02 p0304 N84-11995
Fluidics: Basic components and applications
[AD-A134046] 05 p0679 N84-14465
Control device manipulative behavior, arousal and performance during a compensatory tracking task
[AD-A133921] 05 p0713 N84-14670
Digital control system for space structural dampers
[NASA-CR-175355] 07 p0964 N84-16246
Pulsed thyristor trigger control circuit
[NASA-CASE-MFS-25616-1] 07 p0996 N84-16455
A deployable structure and solar array controls experiment for STEP 08 p1111 N84-17227
Aircraft accident report: Sierra Pacific Airlines, DHC-6-300, N361V, Hailey, Idaho, February 15, 1983
[PB84-910403] 12 p1767 N84-21525
System for torque control of unbalanced rotor during passage through resonance 13 p1973 N84-22802
Lean limit control for internal combustion engines
[DE84-006542] 15 p2344 N84-25071
Scanning photoelectric devices of search and tracking
[AD-A132566] 17 p2671 N84-27027
MST radar transmitter control and monitor system
17 p2693 N84-27150
Description of the Gornergrat telescope control system
[IFSI-84-3] 18 p2850 N84-28096
VARS: Multilevel automated control system
18 p2918 N84-28507
Selection of elements in process schemes on Cathode Ray Tube (CRT). A comparative study between four types of trackballs
[IZF-1984-4] 20 p3182 N84-30213
Strategies for analytical applications and implementation of a multi-purpose laboratory robot
[DE84-012379] 20 p3198 N84-30314
Strategies of design, development and activation of the Nova control system
[DE84-013075] 22 p3600 N84-32801
Computer-based transmission monitor and control system
[PB84-202068] 22 p3639 N84-33069
The flight test of an automatic spin prevention system
24 p3847 N84-34398
Control of seam formation in welding with a light beam
24 p3869 N84-34523
CONTROL PANELS
U CONTROL BOARDS
CONTROL RODS
Studies on sodium boiling phenomena in out of pile rod bundles for various accidental situations in Liquid Metal Fast Breeder Reactors (LMFBR) experiments and interpretations 06 p0842 N84-15493
Aircraft accident report: Sierra Pacific Airlines, DHC-6-300, N361V, Hailey, Idaho, February 15, 1983
[PB84-910403] 12 p1767 N84-21525
CONTROL SIMULATION
Investigation on Kpsi-guidance (quasi-objective carrying guidance) — missile guidance
[FOA-C-20482-E3] 07 p0962 N84-16237
A pilot/vehicle model analysis of the effects of motion cues on Harrier control tasks
[AD-A136291] 09 p1258 N84-18209
Graphics specification for graphical requirements for computer-aided control system design
[DE84-004367] 11 p1708 N84-21135
Control aspects as elaborated in space rendezvous simulations 15 p2268 N84-24616
Design and analysis of a longitudinal ride comfort control system for a Short Take-Off and Landing (STOL) aircraft
[UTIAS-TN-254] 17 p2748 N84-27442
OMV: A simplified mathematical model of the orbital maneuvering vehicle
[NASA-CR-171123] 20 p3134 N84-29902
Analysis and selection of a remote docking simulation visual display system
[NASA-CR-171148] 23 p3698 N84-33432
CONTROL STABILITY
Flight test experience with pilot-induced-oscillation suppression filters
[NASA-TM-86029] 07 p0958 N84-16213
Changing gain versus area of stability for a scalar, modal controller
[AD-A136804] 10 p1436 N84-19385
Time domain analysis and synthesis of robust controllers for large scale LQG (Linear Quadratic Gaussian) regulators
[AD-A137760] 11 p1713 N84-21172
Representations of uncertainty and robustness
[OUEL-1489/83] 12 p1892 N84-22322
Robustness and sensitivity of Smith predictor controllers for time-delay systems
[RR-238] 13 p1974 N84-22612
Stability and performance deterioration due to modelling errors — plant models
[RR-236] 13 p2031 N84-23166
Representation of uncertainty and robustness tests for multivariable feedback systems
[OUEL-1517/84] 19 p3091 N84-29627
Extensions of the small-mu test for robust stability
[OUEL-1518/84] 19 p3091 N84-29628
Inductively stabilized excimer lasers
[DE84-011371] 20 p3194 N84-30284
CONTROL STICKS
A test of Fitts' law in two dimensions with hand and head movements
[AD-A133347] 07 p1051 N84-16810
Crashworthy cyclic control stick
[AD-A135150] 08 p1103 N84-17176
A device for measurement of control column forces in aircraft
[AD-A140876] 17 p2607 N84-26700
CONTROL SURFACES
NT AERIAL RUDDERS
NT AILERONS
NT ELEVATORS (CONTROL SURFACES)
NT ELEVONS
NT EXTERNALLY BLOWN FLAPS
NT FLAPS (CONTROL SURFACES)
NT GUIDE VANES
NT HORIZONTAL TAIL SURFACES
NT JET FLAPS
NT LEADING EDGE FLAPS
NT RUDDERS
NT SPLIT FLAPS
NT SPOILERS
NT TABS (CONTROL SURFACES)
NT TRAILING-EDGE FLAPS
NT WING FLAPS
Special Course on Aerodynamic Characteristics of Controls
[AGARD-R-711] 01 p0013 N84-10082
Introductory remarks and review of 1979 symposium
01 p0013 N84-10083
The aerodynamics of aircraft control: A general survey in the context of active control technology
01 p0013 N84-10084
Mathematical modelling and theoretical methods for the aerodynamic behaviour of control devices
01 p0013 N84-10085
Dynamic effects of controls 01 p0013 N84-10086
Experimental methods to determine control effectiveness in wind tunnels 01 p0013 N84-10087
Control of advanced fighter aircraft
01 p0014 N84-10089
Direct force control 01 p0014 N84-10090
Experimental methods in flight for the measurement of control characteristics 01 p0014 N84-10091
Aerodynamic characteristics of missile controls
01 p0014 N84-10092
Remotely driven model control surfaces for efficient wind-tunnel operations 01 p0022 N84-10139
Nonperiodic fluctuations induced by stationary surface waviness on a semi-infinite plate
[AD-A130820] 02 p0174 N84-11146
Triservice program for extending missile aerodynamic data base and prediction program using rational modeling
[AD-A132455] 04 p0481 N84-13166
Connection of large Airbus components taking example of control surfaces junctions
[MBB-UT-07-82-OE] 05 p0629 N84-14134
A study to determine the accuracy of 2 computer programs in predicting hinge moments for all movable tail fins on missile bodies
[AD-A133399] 06 p0793 N84-15169
Experimental study of fluid deicing system in the NASA Icing Research Tunnel
[NASA-TM-77097] 07 p0960 N84-16220
Research on boundary feedback and control theories, 1978 - 1983
[AD-A136531] 09 p1376 N84-18987
New methods of excitation, acquisition and data reduction about unsteady wind tunnel tests
14 p2099 N84-23599
Multivariable control law theory
15 p2253 N84-24530
An investigation into the nature and control of vortex flow round helicopter upsweep
[BU-285] 15 p2255 N84-24544
Preliminary method for estimating hinge moments of all-movable controls
[AD-A139726] 15 p2264 N84-24597
Langley high-lift research on a high-aspect-ratio supercritical wing configuration
18 p2784 N84-27665
Experimental investigation of elastic mode control on a model of a transport aircraft
[NASA-CR-3472] 18 p2792 N84-27721
Unsteady aerodynamics of moving control surfaces at the Airbus wing
[BMFT-FB-W-84-001] 19 p2968 N84-28811
Investigation of parameters influencing the deflection of a thick wall jet by a thin wall jet coflowing over a rounded corner
[AD-A142773] 21 p3325 N84-31099
Unsteady aerodynamics of fast moving control surfaces
[BMFT-FB-W-84-020] 21 p3328 N84-31117
CONTROL SYSTEMS
U CONTROL
CONTROL THEORY
Computer-Aided Design and Analysis of Digital Guidance and Control Systems
[AGARD-LS-128] 01 p0014 N84-10093
Fundamentals of analysis for digital control systems
01 p0014 N84-10094
Numerical aspects of control design computations
01 p0015 N84-10097
Systematic computer aided control design
01 p0015 N84-10100
Practical aspects of digital implementation of control laws 01 p0016 N84-10101
The dynamics and control of large flexible space structures, 6
[NASA-CR-174450] 01 p0027 N84-10173
New control system for the SLAC accelerator klystrons for SLC
[DE83-012706] 01 p0073 N84-10480
Research initiation: Aggregated hierarchical control
[PB83-226761] 01 p0135 N84-10887
Optimal control of Markov processes
[AD-A129296] 01 p0136 N84-10894
F100 multivariable control synthesis program. Computer implementation of the F100 multivariable control algorithm
[NASA-TP-2231] 02 p0180 N84-11171
Fault tolerant optimal control
[NASA-CR-174471] 02 p0278 N84-11822
A multiple shooting algorithm for direct solution of optimal control problems
[PREPRINT-589] 02 p0279 N84-11827
Controls, Displays, and Information Transfer for General Aviation IFR Operations
[NASA-CP-2279] 03 p0311 N84-12029
Analysis of general aviation single-pilot IFR incident data obtained from the NASA Aviation Safety Reporting System 03 p0312 N84-12033
Control of flexible spacecraft by optimal model following 03 p0342 N84-12222
IPACS attitude control technology considerations
03 p0345 N84-12238
Power system considerations and test activities
03 p0345 N84-12244
Nonlinear dynamics and control of a vibrating rectangular plate
[NASA-CR-172215] 03 p0388 N84-12528
Bank-to-turn control
[AD-A132491] 04 p0489 N84-13214
The design and implementation of debugging systems for languages with advanced control structures
04 p0578 N84-13811
Concurrency control for resilient nested transactions
[AD-A132501] 04 p0589 N84-13891
On the interactions of incentive and information structures
[DE83-012084] 04 p0616 N84-14065

The use of a microcomputer system as an aid to classical and digital control system design and analysis
[AD-A132945] 05 p0720 N84-14718
Fast algebraic methods for multivariable control systems
[AD-A132719] 05 p0733 N84-14811
Design of Smith control schemes for time-delay systems based on plant step data
[RR-231] 05 p0733 N84-14812
Geometric conditions for generic structure of multivariable root-loci
[RR-227] 05 p0736 N84-14849
AFTI/F-16 flight test results and lessons
[NASA-TM-84920] 06 p0791 N84-15159
Articles in self-tuning and adaptive control
[OUEL-1474/83] 07 p1057 N84-16845
Introduction to self-tuning controllers 07 p1057 N84-16846
Implementation of self-tuning controllers 07 p1057 N84-16847
Advanced topics in robustness for multivariable control
[AD-A134606] 07 p1058 N84-16850
Asymmetric Wiener control
[AD-A134531] 07 p1067 N84-16926
Scheduling theory since 1981: An annotated bibliography
[MC-BW-188/83] 07 p1068 N84-16934
Dynamic meteorology; control theory and optimization. Research programme, 1983-1984
[CSIR-SWISK-31] 07 p1094 N84-17115
Control theory of hyperbolic systems
[AD-A135146] 08 p1218 N84-17952
Reconfigurable multivariable control law for commercial airplane using a direct digital output feedback design
[NASA-TM-85759] 09 p1257 N84-18206
Linearised optimal control and application to a gliding projectile
[AD-A135605] 09 p1271 N84-18305
A high-order test for optimality of bang-bang controls
[AD-A136375] 09 p1371 N84-18954
Wiener-Poisson control problems
[AD-A135943] 09 p1372 N84-18956
Average optimality criteria in the problems with unlimited control rates
[PB84-127943] 09 p1384 N84-19040
Minimum time turns with direct sideforce
[AD-A136958] 10 p1429 N84-19342
On optimality OLF control — open loop feedback (OLF)
[OUEL-1493/83] 10 p1567 N84-20263
On equivalence between optimal stochastic control and open-loop feedback control 10 p1567 N84-20264
About equivalence between closed-loop and open-loop feedback controls 10 p1567 N84-20265
Time optimal control of a crane
[EUT-83-E-135] 10 p1568 N84-20271
A learning adaptive controller 10 p1568 N84-20272
Acta Aeronautica et Astronautica Sinicia (selected articles)
[AD-A137150] 11 p1599 N84-20475
Generalization of the subsonic kernel function in the s-plane, with applications to flutter analysis
[NASA-TP-2292] 11 p1600 N84-20480
Tools for active control system design 11 p1617 N84-20582
Nonlinear systems approach to control system design 11 p1618 N84-20585
Adaptive control: Myths and realities 11 p1618 N84-20586
Application of advanced control techniques to aircraft propulsion systems 11 p1618 N84-20590
Military aircraft research opportunities for the future 11 p1619 N84-20598
Opportunities for aircraft controls research 11 p1619 N84-20599
Design of longitudinal control laws for the X-29A backup analog flight control system
[AD-A137814] 11 p1619 N84-20601
An iterative guidance method for the large rocket launch vehicle
[AD-A137586] 11 p1624 N84-20629
Differential games, optimal control and directional derivatives of viscosity solutions of Bellman's and Isaacs' equations
[AD-A137939] 11 p1718 N84-21209
Multiple input - multiple output flight control design with highly uncertain parameters; application to the C-135 aircraft
[AD-A138011] 12 p1772 N84-21554
Multivariable digital flight control design for the FPCC (Flight propulsion control coupling) aircraft
[AD-A138093] 12 p1772 N84-21556
Robust flight controllers
[AD-A138425] 12 p1773 N84-21560
Centralized monitoring and control of environmental chambers by digital computer
[AD-A138278] 12 p1773 N84-21563
Study on synthesis and characterization of large space systems, phase 2. Part 2: Proposals for additions, modifications and new analytical methods, volume 2
[ESA-CR(P)-1779-VOL-4] 12 p1780 N84-21616
Variable structure control of interconnected systems with applications to power systems
[DE84-006587] 12 p1892 N84-22321
Representations of uncertainty and robustness
[OUEL-1489/83] 12 p1892 N84-22322
Adequate/inadequate representations of uncertainty and their implications for robustness analysis
[OUEL-1496/83] 12 p1892 N84-22323
Application of control theory to large flexible structures using the independent modal-space control method 13 p1940 N84-22617
Analysis of the transfer function model of tray-type binary distillation columns with liquid hydraulic delay
[RR-234] 13 p1975 N84-22816
The effects of widening time constants and increasing time delay on controller design using approximate models
[RR-239] 13 p1975 N84-22817
Time optimal digital control of multi-unit paper web dynamics 13 p2002 N84-22991
Stability and performance deterioration due to modelling errors — plant models
[RR-236] 13 p2031 N84-23166
Disturbance minimization techniques for linear, time-invariant dynamical systems
[AD-A138915] 13 p2033 N84-23185
The linear quadratic optimal control problem for infinite dimensional systems with unbounded input and output operators
[AD-A139333] 14 p2214 N84-24296
Mathematical analysis 14 p2245 N84-24479
Dynamics and control of flexible orbiting systems 14 p2245 N84-24481
The nature and use of formal control systems for management control and strategy implementation
[AD-A139083] 14 p2247 N84-24493
Optimal cooperative control synthesis applied to a control-configured aircraft
[NASA-CR-170411] 15 p2264 N84-24593
Contributions to the computation of the matrix exponential, revision
[AD-A140069] 15 p2398 N84-25392
Computer program to simulate digital computer based longitudinal flight control laws in a high performance aircraft
[AD-A140143] 16 p2451 N84-25719
Robustness qualification and improvement of multivariable regulators, with application to airplane control
[ONERA-NT-1983-2] 16 p2451 N84-25720
La Recherche Aerospatiale, Bimonthly Bulletin, no. 1983-6, 217/November-December
[ESA-TT-841] 16 p2476 N84-25870
Ill-posed problems in optimal control systems and a method to solve them 17 p2756 N84-27497
Optimal control of partially observable stochastic systems with an exponential-of-integral performance index
[MC-BW-194/83] 17 p2761 N84-27534
Selected advanced aerodynamic and active control concepts development
[NASA-CR-3469] 18 p2786 N84-27683
Multivariable digital control laws for the UH-60A black hawk helicopter
[AD-A141046] 18 p2797 N84-27746
A simulation aid to gain estimates for robust tuning regulators
[RR-245] 18 p2922 N84-28533
Control theory of partial differential equations
[AD-A140945] 18 p2924 N84-28541
Subgradient methods in deterministic and stochastic optimization
[AD-A141216] 18 p2926 N84-28556
Space Shuttle separate-surface control-system study
[NASA-TP-2340] 19 p2967 N84-28801
LCAP2 (Linear Controls Analysis Program). Volume 3: Source code description
[AD-A141386] 19 p3075 N84-29512
LCAP2 (Linear Control Analysis Program). Volume 1: Batch LCAP2 user's guide
[AD-A141486] 19 p3076 N84-29517
Overload control for a Stored Program Control (SPC) telephone exchange: An optimal stochastic control approach
[CWI-OS-R8404] 19 p3081 N84-29550
An adaptive method of lines with error control for parabolic equations of the reaction-diffusion type
[AD-A142233] 19 p3090 N84-29616
An H sup inf minimax approach to the design of robust control systems
[OUEL-1520/84] 19 p3091 N84-29629
Engineering physiology: New area for use of control theory 20 p3257 N84-30676
The Man-Machine Systems Group 20 p3263 N84-30704
Supervisory control: Introduction and theory — industrial plant control 20 p3263 N84-30706
Modeling the human operator's supervising behavior — industrial plants 20 p3264 N84-30707
Control theory of partial differential equations
[AD-A142636] 20 p3279 N84-30812
Linear structures in bilinear systems
[RR-250] 20 p3284 N84-30852
Acoustic excitation: A promising new means of controlling shear layers
[NASA-TM-83772] 21 p3325 N84-31096
Investigation, development and application of optimal output feedback theory. Volume 2: Development of an optimal, limited state feedback outer-loop digital flight control system for 3-D terminal area operation
[NASA-CR-3829] 21 p3344 N84-31218
Active controls: A look at analytical methods and associated tools
[NASA-TM-86269] 21 p3419 N84-31684
Compensating technique using one active control scheme to nullify the acummulated effect of modelling deviation
[INPE-3181-PRE/546] 21 p3471 N84-31996
Directional convexity and finite optimality conditions
[AD-A141698] 21 p3471 N84-32000
One method of assessing the validity of organizational-systems modelling
[BLL-M-35605-(5828.4)] 21 p3508 N84-32222
Linearized dynamical model for the NASA/IEEE SCOLE configuration
[NASA-CR-172394] 22 p3542 N84-32423
Controller technique of compensation figured in an active control scheme on the accumulated effects of deviation in the modeling
[INPE-2987-TDL/152] 22 p3643 N84-33100
Frequency response design methods for large scale systems
[DE84-013111] 22 p3644 N84-33103
Concurrency control using locks in distributed databases 22 p3670 N84-33262
Optimal digital control of a bank-to-turn missile
[AD-A144043] 23 p3699 N84-33447
Artificial intelligence theory and reconfigurable control systems
[AD-A143766] 23 p3817 N84-34203
Decentralized system theory
[DE84-013658] 23 p3820 N84-34227
Periodic control of the individual-blade-control helicopter rotor
[NASA-CR-166607] 24 p3911 N84-34771

CONTROL UNITS (COMPUTERS)
Control unit for frequency shift for short wave radio transmission
[FOA-C-30269-E2] 07 p0994 N84-16447
Battery Computer System (BCS) human factors field evaluation
[AD-A143425] 22 p3638 N84-33062

CONTROL VALVES
Thermostatic fine control valves mounted on the radiators in district heating systems
[BMFT-FB-T-83-169] 07 p1012 N84-16568

CONTROLLABILITY
Flying the orbiter in the approach/landing phase 01 p0027 N84-10170
Bifurcation theory applied to the study of control losses on combat aircraft 04 p0478 N84-13144
Flight test and analyses of the B-1 structural mode control system at supersonic flight conditions
[NASA-CR-170405] 04 p0487 N84-13197
Evaluation of the effects of lateral and longitudinal aperiodic modes on helicopter instrument flight handling qualities
[AD-A134116] 05 p0629 N84-14135
Sensor control of robot arc welding 06 p0931 N84-16047
Cooperative pilot-optimal augmentation system synthesis for complex flight vehicles 11 p1605 N84-20511
Large aircraft handling qualities 11 p1615 N84-20570
A summary of rotorcraft handling qualities research at NASA Ames Research Center 11 p1615 N84-20571
Flexible aircraft flying and ride qualities 11 p1615 N84-20572
Implications of control technology on aircraft design 11 p1615 N84-20573
Practical aspects of modeling aircraft dynamics from flight data 11 p1616 N84-20575

Applications of modal structure determination to flight test data 11 p1616 N84-20576
Eigenspace design techniques for active flutter suppression 11 p1617 N84-20581
Pilot modeling, modal analysis, and control of large flexible aircraft 11 p1617 N84-20584
Environmental effects on the dynamics and control of an orbiting large flexible antenna system [NASA-CR-175448] 11 p1623 N84-20627
The Dirichlet-Neumann boundary control problem associated with Maxwell's equations in a cylindrical region [AD-A137937] 11 p1715 N84-21184
System modeling and identification of equivalent systems with and without compensating time delay for control-augmented aircraft [DFVLR-FB-83-36] 15 p2259 N84-24570
A simplified method of evaluating aircraft handling qualities using a pilot transfer function model [GU-AERO-8302] 15 p2264 N84-24595
Nonlinear perturbations of dynamical systems and nonlinear controllability [RR-249] 18 p2926 N84-28580
UH-60A Black Hawk engineering simulation program. Volume 1: Mathematical model [NASA-CR-166309] 19 p2968 N84-28806
Simulator evaluation of a remotely piloted vehicle lateral landing task using a visual display [NASA-TM-85903] 20 p3131 N84-29885

CONTROLLED ATMOSPHERES
NT CABIN ATMOSPHERES
NT SPACECRAFT CABIN ATMOSPHERES
Los Alamos mini-review. Numerical calculations of hydrogen-air combustion [DE83-016508] 02 p0191 N84-11240
Effect of environment and materials properties on the friction and wear behavior of precious metal electrical contact alloy couples [DE83-010403] 02 p0215 N84-11409
Method for identifying trace contaminants in chamber atmosphere at high pressure 02 p0262 N84-11718
Proceedings of the 3rd Tripartite Conference on Submarine Medicine: France, United Kingdom and the United States [AD-A133150] 06 p0889 N84-15777
Spacelab/Orbiter atmosphere revitalization subsystem commonality and flight experience 10 p1443 N84-19428
Centralized monitoring and control of environmental chambers by digital computer [AD-A138278] 12 p1773 N84-21563
Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel [NASA-CASE-ARC-11505-1] 13 p1939 N84-22612
Gaseous cementation in nitrogen-methanol atmospheres [CETIM-12-G-264] 21 p3369 N84-31374
Double layered tailorable advanced blanket insulation [NASA-CR-166600] 23 p3723 N84-33591

CONTROLLED FUSION
Recent results in the Los Alamos compact torus program [DE83-014147] 03 p0446 N84-12930
Constraints on the scale of toroidal-fusion experiments with application to the design of a helical-axis stellarator [DE83-016612] 03 p0449 N84-12950
Radiation effects in the Joint European Torus Experiment: Guidelines for preliminary design [R857/2] 06 p0919 N84-15971
Stable Alfven wave dynamo action in the reversed field pinch [DE84-004966] 10 p1586 N84-20397
Ablation accelerator (ABLAC) as driver for impact fusion [IPPJ-668] 15 p2410 N84-25463
NRC survey on plasma physics and fluids fusion plasma confinement and heating. Chapter 8: Inertial confinement fusion [AD-A142302] 19 p3107 N84-29744

CONTROLLED STABILITY
U CONTROL

CONTROLLED SYSTEMS DESIGN
Report on the experience with the Supervisory Control and Diagnostics System (SCDS) of MFTF-B [DE84-012599] 20 p3278 N84-30807
Design philosophy for reliable systems, including control [DE84-012681] 20 p3279 N84-30814
Active controls: A look at analytical methods and associated tools [NASA-TM-86269] 21 p3419 N84-31684
Feedback systems and simultaneous design [AD-A143547] 22 p3644 N84-33102

CONTROLLERS
NT POWER FACTOR CONTROLLERS
NT SERVOMECHANISMS
Direct digital design via pole placement techniques 01 p0015 N84-10099
The use of singular value gradients and optimization techniques to design robust controllers for multiloop systems [NASA-TM-85720] 02 p0277 N84-11815
Bank-to-turn control [AD-A132491] 04 p0489 N84-13214
An application of nonlinear programming to the design of regulators of a linear-quadratic formulation [NASA-CR-172253] 04 p0515 N84-13380
Signal processor interface simulation of the AN/SPY-1A radar controller [AD-A132170] 04 p0522 N84-13429
Load control of a 300 hp tunnelling machine: Controller modification and testing for underground trials [RR-230] 05 p0688 N84-14524
Articles in self-tuning and adaptive control [OUEL-1474/83] 07 p1057 N84-16845
Introduction to self-tuning controllers 07 p1057 N84-16846
Implementation of self-tuning controllers 07 p1057 N84-16847
Selection of noisy sensors and actuators for regulation of linear systems — large space structures [AD-A135442] 08 p1216 N84-17931
Decentralized control of a large space structure using direct output feedback [AD-A136781] 10 p1448 N84-19464
A controller for frequency hopping, with a frequency synthesizer [FOA-C-30350-E4] 10 p1489 N84-19739
A learning adaptive controller 10 p1568 N84-20272
Robust flight controllers [AD-A138425] 12 p1773 N84-21560
An automatic sine-wave grating controller to be used for contrast sensitivity testing [AD-A138294] 12 p1812 N84-21811
IEEE 488 bus pseudo-controller linking talker with listener [DE84-007093] 12 p1878 N84-22238
Interactive computer graphics for system analysis [AD-A138025] 12 p1879 N84-22250
Robust multivariable controller design via implicit model-following methods [AD-A138309] 12 p1882 N84-22268
Controller for the electro-optical shutter of a dual pulse laser 13 p1968 N84-22776
Robustness and sensitivity of Smith predictor controllers for time-delay systems [RR-238] 13 p1974 N84-22812
On the control of a linear stochastic system with finite horizon [AD-P002949] 14 p2196 N84-24189
Optimal reduced order controllers for discrete-time linear systems with partial state estimation [AD-P002952] 14 p2199 N84-24192
On the Taylor approximation of control systems [AD-A139255] 14 p2212 N84-24285
Design and robustness analysis of reduced order controllers for large flexible space vehicles 15 p2269 N84-24623
Design of a robust missile controller by vector performance optimization [DFVLR-FB-84-05] 15 p2280 N84-24694
DSS 13 microprocessor antenna controller 16 p2479 N84-25897
Advanced motor-controller development [AD-A140299] 16 p2484 N84-25934
Navstar Global Positioning System overview [AD-A140793] 17 p2605 N84-26691
Delayed feedback optimal controller 17 p2756 N84-27498
Control systems [AD-A140901] 17 p2771 N84-27592
Phase detector for three-phase power factor controller [NASA-CASE-MFS-25854-1] 18 p2832 N84-27975
The design of manually operated controls for a six-degree-of-freedom groundborne walking vehicle: Control strategies and stereotypes [AD-P003273] 18 p2907 N84-28438
Regions of attraction and ultimate boundedness for linear quadratic regulators with nonlinearities [NASA-TP-2322] 18 p2923 N84-28538
Low temperature rate controller [AD-D011029] 19 p2982 N84-28897
Solid state power controller fuse development program [AD-A142118] 19 p3016 N84-29118
A design method for a state feedback microcomputer controller of a wide bandwidth analog plant [AD-A142101] 19 p3072 N84-29490
LCAP2 (Linear Control Analysis Program). Volume 1: Batch LCAP2 user's guide [AD-A141486] 19 p3076 N84-29517
Adaptive decentralized control [AD-A142160] 19 p3081 N84-29549
Energy management for crew escape systems 20 p3141 N84-29945
Control systems design for linear dynamic systems using simple models: Some case studies. Part 1: The single-input/single-output case [RR-247-PT-1] 20 p3171 N84-30134
DCP (Distributed software engineering control process): Experience in bootstrapping an Ada (trademark) environment [AD-P003424] 20 p3270 N84-30756
Characterization of real-time computers [NASA-CR-3807] 20 p3277 N84-30801
Some design guidelines and discrete-time adaptive controllers [NASA-CR-173800] 20 p3278 N84-30808
Commissioning tests of the Bonneville Power Administration 30 MJ superconducting magnetic energy storage unit [DE84-006033] 20 p3285 N84-30860
An adaptive attitude controller for terrestrial artificial satellites [INPE-3166-PRE/551] 21 p3349 N84-31243
Engineering changes to the 0.1m cryogenic wind tunnel at Southampton University [NASA-CR-172430] 22 p3538 N84-32397
The 64-m antenna automatic subreflector focusing controller 22 p3573 N84-32628
High temperature electronics technology [AD-A143571] 22 p3586 N84-32714
Variable gain oven temperature control circuit [AD-D011141] 22 p3597 N84-32778
Optical power source control system [AD-D011124] 22 p3656 N84-33175
Refinement and evaluation of helicopter real-time self-adaptive active vibration controller algorithms [NASA-CR-3821] 23 p3689 N84-33378
Three-phase power factor controller with induced EMF sensing [NASA-CASE-MFS-25852-1] 23 p3734 N84-33661
Optimal performance in a step motor controlled robot 23 p3735 N84-33664
Modeling and control of an on-board oxygen generation system 23 p3811 N84-34164
Simple microprogrammed controllers: An alternate approach [INPE-3069-PRE/486] 23 p3812 N84-34171
Optimal sensor/actuator placement on a large space structure [AD-A144560] 24 p3865 N84-34499
Autonomous microprocessor controllers for scientific research automation systems 24 p3941 N84-34946
Interactive implementation of the optimal systems control design program (OPTSYSX) on the IBM 3033 [AD-A144159] 24 p3948 N84-35000
Investigation of multiple controller system efficiency as applied to the CSDLI model [AD-A144597] 24 p3949 N84-35002

CONVAIR MILITARY AIRCRAFT
U MILITARY AIRCRAFT

CONVAIR 990 AIRCRAFT
U CV-990 AIRCRAFT

CONVECTION
NT BENARD CELLS
NT FORCED CONVECTION
NT FREE CONVECTION
NT MARANGONI CONVECTION
Summary of the VIN field program: Summer 1979 [AD-A130836] 01 p0108 N84-10704
Numerical experiments on the formation and maintenance of cirriform clouds 02 p0252 N84-11649
A numerical study of the structure and vertical transport properties of a tropical convective system 02 p0252 N84-11651
Convection in horizontal porous media with different end temperatures 03 p0374 N84-12438
Numerical simulation of convective scaling 03 p0406 N84-12660
A subsynoptic environment associated with two inter-mountain severe thunderstorm events [DE83-014498] 03 p0412 N84-12694
Method and apparatus for minimizing convection during crystal growth from solution [NASA-CASE-NPO-15811-1] 03 p0451 N84-12968
Calculation of natural convection within a heated enclosure using the method of second moments [DE84-001596] 04 p0535 N84-13517
Experimental study of three-dimensional natural convection at high Rayleigh number [DE83-011982] 04 p0537 N84-13530

The influence of convective activity on the vorticity budget
[NASA-CR-3752] 04 p0567 N84-13736
Buckling flow and transition to turbulence in axisymmetric plumes 05 p0682 N84-14486
Comparison of steady state transitions in truncated spectral and finite difference models of two-dimensional shallow convection 06 p0832 N84-15417
Studies in unsteady penetrative thermal convection 06 p0833 N84-15422
A diagnostic case study of the effects of deep extratropical convection on the large-scale temperature and moisture structure 06 p0875 N84-15695
Numerical simulations of convectively excited gravity waves
[DE84-001867] 06 p0879 N84-15718
Investigation of the arc cloud complex 06 p0928 N84-16029
Multigrid methods for problems with a small parameter in the highest derivative
[MC-NW-158/83] 07 p1066 N84-16920
Second All-Union Seminar on Hydromechanics and Heat-Mass Transfer in Weightlessness. Abstracts of reports: Table of contents
[NASA-TM-77534] 09 p1312 N84-18576
Hydromechanics and heat and mass exchange in weightlessness (Russian book): Table of contents
[NASA-TM-77533] 10 p1490 N84-19743
Flow visualizations, velocity measurements, and surface convection measurements in simulated 20.8-cm Nova box amplifier cavities
[DE84-004354] 10 p1501 N84-19812
Analysis of structural storage air conditioning systems 11 p1640 N84-20725
Impact of prescribed diabatic heating on short range weather forecasts 12 p1858 N84-22107
Case studies on convective storms, case study 1, 13 July 1978: First echo case
[PB84-147479] 12 p1862 N84-22134
On the convective properties of the resistive hose instability in an intense relativistic electron beam
[AD-A137527] 12 p1902 N84-22386
Velocity shear stabilization of the current convective instability
[AD-A137963] 12 p1909 N84-22439
Hybrid perturbation/Bubnov-Galerkin technique for nonlinear thermal analysis
[NASA-TP-2145] 13 p1988 N84-22907
Preliminary design of two Space Shuttle fluid physics experiments
[NASA-CR-174649] 14 p2114 N84-23667
Convective heat transfer in porous media 15 p2317 N84-24903
Distortion of a narrow radio beam in a convective medium 15 p2326 N84-24966
Channel cooling by turbulent convective mixing
[AD-A139724] 15 p2410 N84-25486
A theoretical analysis of natural convection towers for solar energy conversion
[DE83-011956] 16 p2512 N84-26118
Computer program for studying turbulent convection in buildings 16 p2517 N84-26155
Radial segregation induced by natural convection and melt/solid interface shape in vertical Bridgman growth
[NASA-CR-173627] 17 p2767 N84-27571
Penn State Get Away Special 18 p2799 N84-27759
Experimental natural convective studies within a compound parabolic concentrator enclosure
[DE84-006967] 19 p3025 N84-29184
Boundary layer solution for the Rayleigh-Benard convection problem
[MPIS-19/1983] 19 p3026 N84-29189
Variability of the convection field pattern in South Florida and its relationship to the synoptic flow
[PB84-177393] 20 p3249 N84-30623
Research study: Organization and development of organized convection in the boundary layer
[NASA-CR-171115] 21 p3398 N84-31552
A selection principle in Benard-type convection
[NASA-CR-173869] 21 p3398 N84-31559
Oscillatory instability in a 2-fluid Benard problem
[AD-A142792] 21 p3399 N84-31565
Lidar observations and modeling of atmospheric mixed layer entrainment processes 21 p3437 N84-31807
Applications of the AVE-SESAME data sets to mesoscale studies
[NASA-CR-3819] 21 p3446 N84-31866
Humidity/cloud-radiation feedback on possible climatic perturbation due to fossil fuel utilization
[DE84-011895] 21 p3448 N84-31874
Natural convection in porous media: An experimental and numerical study for vertical annular and rectangular enclosures 22 p3592 N84-32744
Diffusion modeling with convective scaling and effects of surface inhomogeneities
[PB84-210053] 22 p3627 N84-32981
Period-doubling 2-torus state in a convecting He-3-superfluid He-4 solution
[DE84-009985] 22 p3666 N84-33243
Onset of oscillations in symmetric convective states in a superfluid He-3-He-4 mixture
[DE84-009984] 22 p3666 N84-33244
A kinetic energy study of the meso beta-scale storm environment during AVE-SESAME 5 (20-21 May 1979)
[NASA-CR-3820] 23 p3800 N84-34090
Transient convection over the Amazon/Bolivia region and the dynamics of drought over northeast Brazil
[INPE-3226-PRE/577] 24 p3922 N84-34823
The application of satellite data to study the effects of latent heat release on cyclones 24 p3925 N84-34841
The use of satellite data in understanding and predicting convective and large-scale dynamical processes 24 p3925 N84-34842
Use of satellite data in a diagnostic parameterization of convective heating 24 p3925 N84-34844

CONVECTION CLOUDS
NT CIRRUS CLOUDS
NT CUMULONIMBUS CLOUDS
NT STRATOCUMULUS CLOUDS
NT STRATUS CLOUDS
Numerical study of mesoscale convective complexes
[PB84-136506] 10 p1541 N84-20102
A dynamical basis for the parameterization of organized deep convection in large-scale numerical models 12 p1859 N84-22111
Well-developed convective cloud cover as source of internal waves 18 p2865 N84-28187
Studies of Chebyshev spectral methods and multigrid methods
[AD-A142014] 20 p3245 N84-30596
Doppler-radar observation of the evolution of downdrafts in convective clouds
[NASA-CR-173874] 21 p3450 N84-31896
Retrieval of thermal and microphysical variables in observed convective storms 23 p3799 N84-34089
Investigation of arc cloud lines 24 p3931 N84-34885

CONVECTION CURRENTS
Some basic elements of thunderstorm forecasting
[PB83-222604] 01 p0109 N84-10710
A case study of gravity wave-convective storm interactions 03 p0406 N84-12659
Numerical study of mesoscale convective complexes
[PB84-136506] 10 p1541 N84-20102
A dynamical basis for the parameterization of organized deep convection in large-scale numerical models 12 p1859 N84-22111
Self-similar regimes of nonstationary turbulent convection 17 p2698 N84-27185
Acoustic propagation in the surface layer under convectively unstable conditions 21 p3489 N84-32111

CONVECTIVE FLOW
NT BENARD CELLS
A study of the convective atmospheric boundary and surface layers 02 p0246 N84-11609
Steady laminar natural convection in open rectangular cavities 03 p0375 N84-12441
Multiple steady states of buoyancy induced flow in cold water and their stability 04 p0530 N84-13487
Genesis and development of deep convective storms
[PB83-252452] 05 p0710 N84-14653
An assumed deviatoric stress-velocity-pressure mixed finite element method for unsteady convective, incompressible viscous flow 06 p0833 N84-15420
Studies in unsteady penetrative thermal convection 06 p0833 N84-15422
Finite difference methods for convective-diffusive equations 06 p0835 N84-15432
The accuracy of the finite difference computations of recirculating free convective flows 06 p0839 N84-15471
Baroclinic inertial instability in the non-static equilibrium atmosphere
[BLL-TRANS-1568-(9022.552)] 08 p1189 N84-17751
Manufacturing in space: Fluid dynamics numerical analysis
[NASA-CR-175401] 10 p1491 N84-19748
Dynamics of freely ascending convective jets initiated by active admixture 11 p1669 N84-20893
Problems with the process partitioning theory of stratocumulus entrainment 12 p1857 N84-22099
Case studies on convective storms, case study 1, 13 July 1978: First echo case
[PB84-147479] 12 p1862 N84-22134
Hydrodynamic theory of convective transport across a dynamically stabilized diffuse boundary layer — plasma flow
[JUEL-1869] 13 p2046 N84-23275
The specific humidity profile of the convective atmospheric boundary layer
[KNMI-WR-84-2] 15 p2368 N84-25207
On the separation of alloys exhibiting a miscibility gap 17 p2612 N84-26720
Flow visualization study of natural convection from a heated protrusion in a liquid filled rectangular enclosure
[AD-A140696] 17 p2668 N84-27012
Energy flow continuity in solar active regions 17 p2779 N84-27643
Recent ground-based observations of the global properties of the Sun 17 p2779 N84-27644
Super upwinding elements of doubt and discrete differences of opinion on the numerical muddling of the incomprehensible defective confusion equation 19 p3025 N84-29188
Natural convection flows and associated heat transfer processes in room fires
[PB84-171172] 20 p3172 N84-30140
Stability criterion for moist compressible atmosphere and energy conditions for development of convective cloud cover: Numerical experiment 20 p3224 N84-30489
Oscillatory convection — three dimensional flow
[DFVLR-FB-84-14] 23 p3747 N84-33756
Transient convection over the Amazon/Bolivia region and the dynamics of drought over northeast Brazil
[INPE-3226-PRE/577] 24 p3922 N84-34823
Investigation of mesoscale pre-convective forcing mechanisms 24 p3931 N84-34883

CONVECTIVE HEAT TRANSFER
Heating and melting low-melting ferroalloys and hardeners in molten steel
[BLL-M-35219-(5828.4)] 01 p0040 N84-10256
A finite element analysis of the upper jet region of a fiber drawing flow field 02 p0218 N84-11425
Experimental mixed-convection heat transfer from a large, vertical surface in a horizontal flow
[DE83-016419] 03 p0373 N84-12429
Direct coronal heating from dissipation of magnetic field 03 p0486 N84-13069
Continuously deforming finite element method for moving free surface heat transfer problems 05 p0683 N84-14489
Experimental mixed convection heat transfer from a large vertical surface in a horizontal flow 06 p0832 N84-15412
Steam condenser thermal design theories 06 p0841 N84-15485
Thermohydraulics in liquid metals 06 p0842 N84-15491
Forced convection heat transfer to air/water vapor mixtures
[NASA-CR-3769] 07 p1000 N84-16488
Finite analytic numerical solutions of laminar and turbulent convective heat transfer for pipe flow past a cavity 08 p1154 N84-17515
Experimental investigation of turbulent heat transfer in straight and curved rectangular ducts
[AD-A136239] 09 p1313 N84-18581
Terrestrial whisker growth experiments which anticipate some special effects of a space station environment
[NASA-CR-175440] 11 p1627 N84-20647
An ensemble formulation of PBL fluxes in a GCM 12 p1858 N84-22102
Convective heating of energetic materials 13 p1949 N84-22672
Analysis and calculation of macrosegregation in a casting ingot, exhibits C and E
[NASA-CR-171030] 14 p2127 N84-23752
Experimental mixed convection heat transfer from a large, vertical surface in a horizontal flow
[HMT-36] 14 p2146 N84-23864
Fluid flow in laser melted pool 15 p2306 N84-24837
Measurement of local convective heat transfer coefficients of four ice accretion shapes
[NASA-CR-174660] 16 p2439 N84-25648
Convective heat transfer inside passive solar buildings 16 p2517 N84-26154
Effects of nozzle and grid acceleration of corona wind on cooling of a vertical flat plate
[AD-A141224] 18 p2837 N84-28007
Mathematical modelling of high-speed ribbon systems: A case study of edge-defined film-fed growth 18 p2938 N84-28832
Mathematical modelling of Laser/Material interactions
[AD-A141096] 19 p3029 N84-29208
Natural convection flows and associated heat transfer processes in room fires
[PB84-171172] 20 p3172 N84-30140

Cooling of semiinfinite body under conditions of nonlinear heat transfer at surface
21 p3483 N84-32075
Temperature controlled gyro
[AD-D011138] 22 p3596 N84-32777
Laminar convection with buoyancy in tube flows with a surrounding liquid medium 23 p3745 N84-33740
Transient convection over the Amazon/Bolivia region and the dynamics of drought over northeast Brazil
[INPE-3226-PRE/577] 24 p3922 N84-34823

CONVERGENCE
A lifting surface theory in rotational flow
[NASA-CR-172233] 01 p0002 N84-10017
Summary of the VIN field program: Summer 1979
[AD-A130636] 01 p0108 N84-10704
Constrained nonlinear least squares
[AD-A130502] 01 p0132 N84-10862
Computations of turbulent recirculating flows with fully coupled solution of momentum and continuity equations
[DE84-001529] 04 p0535 N84-13518
Acceleration of convergence of vector sequences
[NASA-TP-2193] 04 p0586 N84-13885
Stabilization of solutions for a class of parabolic integro-differential equations
[AD-A132821] 05 p0736 N84-14837
A rapid convergence method for a singular perturbation problem
[AD-A132837] 05 p0740 N84-14863
Relationships between thunderstorm mesoscale circulation and tornadogenesis 06 p0880 N84-15727
Rates of convergence of Gaussian quadrature for singular integrands
[CSIR-TWISK-288] 07 p1059 N84-16865
On the convergence of Galerkin approximation schemes for second-order hyperbolic equations in energy and negative norms
[CSIR-TWISK-280] 07 p1059 N84-16867
A Berry-Esseen bound for symmetric statistics
[MC-SW-95/83] 07 p1067 N84-16929
The queue G/G/1: Finite moments of the cycle variables and uniform rates of convergence
[CTH-MATH-1983-18] 07 p1068 N84-16933
Estimation techniques for transport equations
[AD-A135092] 08 p1218 N84-17945
Estimation of temporally and spatially varying coefficients in models for insect dispersal
[AD-A135093] 08 p1218 N84-17946
Convergence of quadratic forms in p-stable random variablec and theta sub p-radonifying operators
[AD-A135314] 08 p1219 N84-17959
On the Fatou inequality
[AD-A136383] 09 p1374 N84-18973
Convergence theories of distributed iterative process: A survey
[AD-A135875] 09 p1382 N84-19027
Convergence of generalized MUSCL schemes
[NASA-CR-172306] 10 p1420 N84-19286
Use of adaptive walls in 2D tests
[NASA-TM-77360] 10 p1432 N84-19359
Inspections with unknown detection probabilities
[AD-A136890] 10 p1573 N84-20310
Experimental study of the separating confluent boundary-layer. Volume 2: Experimental data
[NASA-CR-166018] 11 p1600 N84-20481
Relaxation, regularity and operator theoretical methods for a class of problems in nonlinear elastoelatics
11 p1666 N84-20871
Generalized Dinkelbach-type algorithms
[CSIR-TWISK-295] 11 p1712 N84-21161
The queue G/G/lc Finite moments of the cycle variables and uniform rates of convergence
[CTH-MATH-1983-24] 13 p2037 N84-23218
Linear Volterra convolution equations: Semigroups small solutions and convergence of projection operators
[MC-TW-248/83] 13 p2038 N84-23223
On a theorem of Szegoe on univalent convex maps of the unit circle
[AD-A139256] 14 p2212 N84-24286
The Dirichlet problem for harmonic maps from the disk into the Euclidean n-sphere
[AD-A139259] 14 p2213 N84-24287
A hybrid Chebyshev Krylov subspace algorithm for solving nonsymmetric systems of linear equations
[AD-A139301] 14 p2213 N84-24291
An approximate Newton method for coupled nonlinear systems
[AD-A139589] 14 p2214 N84-24300
Diffraction of a line sink field
[FOA-C-30353-E] 15 p2320 N84-24931
Estimating network reliability with accelerated convergence rates on error bounds
[AD-A139841] 15 p2397 N84-25383
A device for the acceleration of convergence of a monotonously enclosing iteration method
16 p2541 N84-26307
Modification to shock fitting program
[NASA-TM-86097] 16 p2548 N84-26353
Preconditioned iterative methods for nonselfadjoint or indefinite elliptic boundary value problems
[AD-A140777] 17 p2758 N84-27511
Application of recurrent formulas for solving main geodetic problems 18 p2861 N84-28166
Non-inertial flow of dilute polymer solutions in a sudden contraction
[BLL-WH-558-(9091.9F)] 20 p3183 N84-30221
Testament of general boundary conditions and point-wise state variable constraints in optimum design for static and dynamic response
[PB84-192749] 20 p3204 N84-30356
Numerical solution of viscoplastic flow problems by augmented lagrangians
[AD-A142793] 21 p3400 N84-31566
Convergence of bivariate cardinal interpolation
[AD-A142894] 21 p3472 N84-32006
Globally convergent procedures for solving nonlinear minimization problems
[AD-A142905] 21 p3473 N84-32009
Spline approximation for retarded systems and the Ricatti equation
[AD-A142963] 21 p3473 N84-32010
Kolmogorov's and Mourier's strong laws for arrays with independent and identically distributed columns
[AD-A143222] 22 p3650 N84-33139
Supraconvergence and functions that sum to zero on cycles
[DE84-013889] 23 p3818 N84-34210
Dynamics and energetics of the South Pacific convergence zone during FGGE SOP-1
24 p3926 N84-34850
A study of some multi-grid ideas
[AD-A144465] 24 p3951 N84-35021
Convergence of difference approximations of quasilinear evolution equations
[AD-A144694] 24 p3953 N84-35032

CONVERGENT NOZZLES
Shock associated noise — nozzles
06 p0767 N84-15030
Effects of simulated flight on the structure and noise of underexpanded jets
[NASA-TP-2308] 15 p2403 N84-25422
Effects of nozzle and grid acceleration of corona wind on cooling of a vertical flat plate
[AD-A141224] 18 p2837 N84-28007

CONVERGENT-DIVERGENT NOZZLES
Investigation of installation effects on twin-engine convergent-divergent nozzles
[NASA-TP-2205] 04 p0479 N84-13152
Static internal performance including thrust vectoring and reversing of two-dimensional convergent-divergent nozzles
[NASA-TP-2253] 09 p1251 N84-18165
Experimental investigation of shock-cell noise reduction for dual-stream nozzles in simulated flight comprehensive data report. Volume 1: Test nozzles and acoustic data
[NASA-CR-168336-VOL-1] 14 p2220 N84-24323
Experimental investigation of shock-cell noise reduction for dual-stream nozzles in simulated flight comprehensive data report. Volume 2: Laser velocimeter data, static pressures and shadowgraph photos
[NASA-CR-168336-VOL-2] 14 p2220 N84-24324
Experimental investigation of shock-cell noise reduction for single-stream nozzles in simulated flight, comprehensive data report. Volume 1: Test nozzles and acoustic data
[NASA-CR-168234-VOL-1] 22 p3652 N84-33148
Experimental investigation of shock-cell noise reduction for single-stream nozzles in simulated flight, comprehenseive data report. Volume 3: Shadowgraph photos and facility description
[NASA-CR-168234-VOL-3] 22 p3652 N84-33150
Supersonic jet shock noise reduction
[NASA-TM-83799] 24 p3961 N84-35085

CONVERSATION
Linguistic methodology for the analysis of aviation accidents
[NASA-CR-3741] 06 p0784 N84-15135

CONVERSION
Solar Thermal Technology Program: Polymer synthesis and characterization subtask, FY 1983
[DE84-000094] 10 p1530 N84-20022
A three-dimensional transonic, potential flow computer program, its conversion to IBM FORTRAN and utilization
[AD-A140936] 18 p2921 N84-28521

CONVERTAPLANES
U V/STOL AIRCRAFT

CONVERTERS
Pulse width modulated DC link converter development
[AD-A134486] 07 p0997 N84-16467
Test Operations Procedure: Signal converters
[AD-A134615] 08 p1144 N84-17446

CONVEXITY
Convex-ordering among functions, with applications to reliability and mathematical statistics
[AD-A132796] 05 p0736 N84-14833
A convex hull algorithm for planar simple polygons
[CSIR-TWISK-290] 07 p1059 N84-16864
On conditions for success of Sklansky's convex hull algorithm
[CSIR-TWISK-282] 07 p1059 N84-16866
Conformal solution methods based on the hard convex body expansion theory, section 1
[PB84-100940] 08 p1128 N84-17332
Convergence of generalized MUSCL schemes
[NASA-CR-173356] 09 p1372 N84-18959
On an algorithm for external triangulation of ELV polygons
[CSIR-TWISK-287] 11 p1712 N84-21162
Convexity and concavity properties of the optimal value function in parametric nonlinear programming
[AD-A138202] 12 p1881 N84-22264
Convex integration of non-linear systems of partial differential equations 14 p2210 N84-24271
Helical shear of an elastic circular tube with non-convex stored energy 15 p2313 N84-24882
Geodetic graphs and convexity
21 p3425 N84-31729
Asteroid light inversion
[NASA-CR-173864] 21 p3523 N84-32316
Film cooling on a convex wall: Heat transfer and hydrodynamic measurements for full and partial coverage 23 p3745 N84-33741
Ordered incidence geometry and the geometric foundations of convexity theory
[AD-A144286] 24 p3951 N84-35015

CONVOLUTION INTEGRALS
Reduction of structural complexity in evaluating convolutions by polynomial transforms
[FUB-59-1981] 03 p0426 N84-12794
Convolution of generalized vector measures
04 p0577 N84-13803
Fast convolution algorithms and associated VHSIC architectures
[AD-A133851] 05 p0674 N84-14432
Linear prediction methods — signal processing
[FUB-52-1982] 06 p0902 N84-15858
Zooming and smoothing images using convolution procedures
[AD-A135659] 09 p1372 N84-18957
Transfer function bounds for partial-unit-memory convolutional codes based on reduced state diagram
10 p1474 N84-19628
Optical processing in radon space
[AD-A137033] 10 p1579 N84-20343
Deconvolution based on source scaling applied to teleseismic signals — nuclear explosion monitoring
[FOA-C-20514-T1] 12 p1848 N84-22048
Deconvolution of aberrations in optical systems
[AD-A138096] 12 p1907 N84-22425
Linear Volterra convolution equations: Semigroups small solutions and convergence of projection operators
[MC-TW-248/83] 13 p2038 N84-23223
An efficient method for the conversion to residue number systems and its application to convolutions
[FUB-53-1982] 14 p2220 N84-24319
Effects of NRZ-M modulation on convolutional codes performance 16 p2479 N84-25894
New short constraint length, rate 1/N convolutional codes which minimize required E sub b/N sub o for given bit error rate 16 p2479 N84-25895
Improved resolution rain measurements from spaceborne radar altimeters 17 p2716 N84-27290
Implementation of cellular-logic operators using 3 x 3 convolution and table look-up hardware
[NLR-MP-83039-U] 17 p2750 N84-27454
Supremum convolutions and Greenian potentials in a special case
[CTH-MATH-1983-31] 17 p2759 N84-27522

CONVOLUTIONS (MATHEMATICS)
U CONVOLUTION INTEGRALS

COOLANTS
NT ENGINE COOLANTS
Leak testing and repair of fusion devices
[DE83-014942] 02 p0296 N84-11944
Assessment of TRAC-PF1 and RELAP5/MOD1 codes with GE large-vessel blowdown test
[DE83-015384] 03 p0438 N84-12874
Superconductor stability, 1983: A review
[DE83-015506] 03 p0454 N84-12990
Theoretical simulation of thermohydraulic behavior of sodium cooled subassemblies in steady state and transient conditions — liquid metal fast breeder reactors (LMFBR)
06 p0843 N84-15498
Development of a contact heat exchanger for a constructable radiator system
[NASA-CR-171730] 08 p1155 N84-17523

Simulation of natural convection in a rectangular loop using finite elements
[DE84-003477] 08 p1160 N84-17550
Ultra-high-field superconducting magnets
[DE84-003913] 08 p1226 N84-18012
Application of He-II technology to the production of ultrahigh-field superconducting magnets
[DE84-004853] 10 p1575 N84-20319
Frigair 1983. Papers
[CSIR-S-281] 11 p1639 N84-20717
Mini, micro, and high-efficiency torches for the ICP (Inductively-Coupled Plasma): Toys or tools?
[AD-A138144] 12 p1909 N84-22440
Effect of rotation on thermal state of runner blade through effect on heat transfer on coolant side
13 p1970 N84-22787
Status of the development of a long-life engine coolant system
[AD-A143098] 21 p3413 N84-31642
The Shock and Vibration Digest, volume 16, no. 7
[AD-A143958] 21 p3418 N84-31679
Literature review of tilting pad and turbulent hydrostatic journal bearings for nuclear main coolant pumps
21 p3418 N84-31680
Space reactor fuels performance and development issues
[DE84-011414] 21 p3497 N84-32164
Sloshing response of a reactor tank with internals
[DE84-009629] 22 p3595 N84-32766
Process for making a fluid-cooled electrical conductor
[AD-D011150] 23 p3735 N84-33666

COOLERS
Closed cycle cryocooler for low temperature electronics circuits: Cold end test
[AD-A134043] 05 p0662 N84-14354
Split-Stirling, linear-resonant, cryogenic refrigerators for detector cooling 06 p0819 N84-15342
Split-Stirling-cycle displacer linear-electric drive
06 p0820 N84-15343
Analysis of a high-frequency Stirling Cycle compressor for cryogenic cooling in space
[NASA-TM-85066] 06 p0852 N84-15555
Investigations into the use of ice for cooling deep mines 11 p1641 N84-20728
Laboratory evaluation of the steady-state and part load performance of absorption type heating and cooling equipment
[PB84-182146] 21 p3376 N84-31426

COOLING
NT ABSORPTION COOLING
NT AIR COOLING
NT CRYOGENIC COOLING
NT EVAPORATIVE COOLING
NT FILM COOLING
NT GAS COOLING
NT LIQUID COOLING
NT MAGNETIC COOLING
NT PLASMA COOLING
NT QUENCHING (COOLING)
NT RADIANT COOLING
NT REGENERATIVE COOLING
NT SOLAR COOLING
NT SPACE COOLING (BUILDINGS)
NT SUPERCOOLING
NT SURFACE COOLING
NT THERMOELECTRIC COOLING
Thermal energy storage evaluation and life testing
[NASA-CR-174464] 01 p0102 N84-10660
Laser-Cooled and Trapped Atoms
[PB83-238196] 02 p0192 N84-11249
Investigation of two-component two-phase channel flow with heat supply for application in inside cooled turbine blades 02 p0221 N84-11447
Stress production and relief in the gold/silicon eutectic die-attach process
[DE83-015230] 03 p0369 N84-12400
Use of superposition in calculating cooling requirements for circuit cards containing arrays of electronic components
[DE83-016091] 03 p0373 N84-12428
Models of simultaneous heat and moisture transfer in soils
[DE84-001580] 04 p0534 N84-13513
Analysis and modeling of photosynthetic bacterial hydrogen production plants
[DE84-000003] 04 p0570 N84-13758
Aerothermal modeling. Executive summary
[NASA-CR-168330] 06 p0790 N84-15152
The effects of dehydration on peripheral cooling
[AD-A130838] 06 p0887 N84-15767
Laser cooling and trapping of neutral atoms
[AD-A134333] 07 p1009 N84-16547
Simulation of natural convection in a rectangular loop using finite elements
[DE84-003477] 08 p1160 N84-17550
Analysis and testing of the thermal design of the electronic package in the US Army's Upgraded Logic Module (ULM)
[AD-A135998] 09 p1308 N84-18551
Measurement of heat pump processes induced by laser radiation
[NASA-CR-168324] 09 p1319 N84-18620
Acoustic leak detection and ultrasonic crack detection
[DE84-004037] 09 p1328 N84-18670
A new Traveling Wave Tube (TWT) cooling concept — for ers-1 10 p1445 N84-19438
The relationship between vehicle fuel temperature and ambient temperature. 1981 CRC (Coordinating Research Council) Kapuskasing field test
[AD-A136948] 10 p1470 N84-19602
Dilution jet experiments in compact combustor configurations 11 p1611 N84-20545
Active solar heating and cooling program. Polymer stabilization film-forming, high-temperature polymers
[DE84-000093] 11 p1675 N84-20929
Tip cap for a rotor blade
[NASA-CASE-LEW-13654-1] 13 p1931 N84-22560
Combustor liner construction
[NASA-CASE-LEW-14035-1] 15 p2260 N84-24577
The design and development of a low emissions transply combustor for the civil Spey engine
15 p2292 N84-24755
Advanced combustor liner cooling concepts
15 p2292 N84-24756
The effect of cooling rate from the gamma-phase on the strain-rate sensitivity of a uranium 2w/o molybdenum alloy
[QUEL-1492/83] 15 p2296 N84-24779
Qualification testing of solar photovoltaic powered refrigerator freezers for medical use in remote geographic locations
[NASA-CR-168181] 15 p2361 N84-25162
Channel cooling by turbulent convective mixing
[AD-A139724] 15 p2410 N84-25466
A study of liquid hydrogen cooled LO2/LH2 rocket combustor with channel wall construction
[NAL-TR-767] 16 p2459 N84-25763
Cooling-load implications for residential passive solar heating systems 16 p2513 N84-26126
Energy and peak power saved by passively cooled residences 16 p2513 N84-26130
The radiative cooling resource
16 p2513 N84-26131
Residual stresses in long double-layer cylinder under nonsteady cooling 17 p2651 N84-26953
Optimation of cooled shields in insulations
[NASA-CR-166583] 18 p2836 N84-27999
Effects of nozzle and grid acceleration of corona wind on cooling of a vertical flat plate
[AD-A141224] 18 p2837 N84-28007
Parameter studies of gear cooling using an automatic finites element mesh generator
[NASA-TM-83721] 18 p2849 N84-28087
Requirements for high-temperature air-cooled central receivers
[DE84-000081] 20 p3235 N84-30534
High-Q open resonator structures with sparse spectrum 20 p3288 N84-30676
Rapid solidification and undercooling of aluminum germanium alloys: Characterization and control of microstructure
[DE84-012395] 21 p3367 N84-31361
A numerical simulation of heat transfer in evaporative cooling towers
[DE84-901142] 21 p3402 N84-31580
Heat pipe technology development for high temperature space radiator applications
[DE84-012444] 21 p3402 N84-31581
Air modulation apparatus
[NASA-CASE-LEW-13524-1] 23 p3694 N84-33410
Radiation pressure on atoms: Laser cooling and intense field effects
[AD-A143637] 23 p3754 N84-33793
Characterization of macrosegregation in ESR IN-718
24 p3882 N84-34598
A review of our present understanding of macrosegregation in ingots 24 p3883 N84-34601

COOLING FINS
Heat transfer measurements of internally finned rotating heat pipes
[AD-A140847] 17 p2668 N84-27015

COOLING SYSTEMS
Optimized He 2 cooling systems for space application. Behavior and handling of superfluid helium at G = 0, phase 1
[BMFT-FB-W-83-008] 02 p0207 N84-11349
Deposit formation and heat transfer in hydrocarbon rocket fuels
[NASA-CR-168277] 03 p0343 N84-12225
Solidification of aluminum and aluminum alloys at high levels of undercooling 03 p0351 N84-12286
A laboratory comparison of portable cooling systems for workers exposed to two levels of heat stress
[AD-A131848] 03 p0372 N84-12423
Develop and test fuel cell powered on-site integrated total energy systems. Phase 3: Full-scale power plant development
[NASA-CR-168294] 04 p0557 N84-13672
Evaluation of air-cooled central receivers
[DE83-005130] 06 p0833 N84-15423
The BLOW-3A: A theoretical model to describe transient two phase flow conditions in Liquid Metal Fast Breeder Reactor (LMFBR) coolant channels
06 p0843 N84-15497
Investigation of a para-ortho hydrogen reactor for application to spacecraft sensor cooling
[NASA-CR-175131] 06 p0916 N84-15957
Investigation of a rainwater flow and temperature measuring device in a moist atmosphere refrigerant — cooling ponds
[HT-31.82.11] 09 p1317 N84-18802
Thermal design of Infrared Space Observatory (ISO) payload dual cooling 10 p1442 N84-19417
Design and test of a cryogenic phase separator for zero-g environment 10 p1442 N84-19418
Thermofluidynamics of heat pipes
10 p1443 N84-19423
Design and manufacturing of a heat rejection system for advanced thermal control — spacecraft and or payload cooling 10 p1444 N84-19434
Design and application of two stage evaporative cooling systems 11 p1640 N84-20720
Free cooling: A total HVAC design concept
11 p1640 N84-20723
Investigations into the use of ice for cooling deep mines 11 p1641 N84-20728
Vortex generating flow passage design for increased film cooling effectiveness
[NASA-CASE-LEW-14039-1] 11 p1651 N84-20782
Mitigation of biofouling using coatings
[DE84-006112] 11 p1693 N84-21041
Radiative cooler — spacecraft radiators
[NASA-CASE-NPO-15465-1] 13 p1988 N84-22903
Vortex generating flow passage design for increased film-cooling effectiveness and surface coverage — aircraft engine blade cooling
[NASA-TM-83617] 13 p1989 N84-22909
Combustor liner construction
[NASA-CASE-LEW-14035-1] 15 p2260 N84-24577
Reciprocating magnetic refrigerator employing tandem porous matrices within a reciprocating displacer
[NASA-CASE-NPO-16257-1] 15 p2305 N84-24830
An assessment of dehumidifier geometries for desiccant cooling systems
[DE83-011991] 16 p2512 N84-26123
Investigation of the characteristics of a ventilated transparent shield
[BLL-M-35562-(5828.4)] 17 p2665 N84-26996
Effect of shroud geometry on the effectiveness of a short mixing stack gas eductor model
[AD-A132173] 18 p2836 N84-28004
Optimized He 2 cooling systems for space application. Behavior and handling of superfluid helium at g = 0, phase 2
[BMFT-FB-W-84-006] 19 p3025 N84-29185
Study of latent heat storage system used heat pipes for cooling of underground cables
20 p3170 N84-30127
Open cycle lithium chloride cooling system
[DE84-005831] 20 p3184 N84-30234
Resonance in the water circuit of a cooling tower
[S/T-REPT-VOL-1-NO-2] 20 p3188 N84-30254
Status of the development of a long-life engine coolant system
[AD-A143098] 21 p3413 N84-31642
Laser utilizing a gaseous lasing medium and method for operating the same
[DE84-014500] 22 p3602 N84-32819

COORDINATE SYSTEMS
U COORDINATES

COORDINATE TRANSFORMATIONS
A coordinate transformation for the porous media equation that renders the free-boundary stationary
[AD-A132839] 05 p0737 N84-14842
Practical three-dimensional mesh generation using transfinite interpolation 06 p0838 N84-15463
Transformation procedures for interactive digitizing apparatus 07 p1018 N84-16606
Digital color space transformations
23 p3779 N84-33960

COORDINATES
NT CARTESIAN COORDINATES
NT GEODETIC COORDINATES
NT INERTIAL COORDINATES
NT LAGRANGE COORDINATES
NT OBLIQUE COORDINATES

NT PLANETOCENTRIC COORDINATES
NT POLAR COORDINATES
NT SPHERICAL COORDINATES
Stormer equation implementation using offset dipole coordinates derived from specified geographic coordinates
[AD-A130079] 01 p0104 N84-10676
Accurate computation of divided differences of the exponential function
[AD-A130306] 01 p0132 N84-10865
A contribution to the calculation of measurement uncertainty and optimization of measuring strategies in coordinate measurement -- production measurement technique
[PTB-ME-39] 02 p0206 N84-11345
Determining attitude of object from needle map using extended Gaussian image
[AD-A131617] 02 p0240 N84-11571
African Doppler surveys (ADOS)
[AD-A131135] 02 p0240 N84-11574
Vortex flow simulations past wings using the Euler equations 03 p0324 N84-12118
The effect of coordinate system rotation on spherical harmonic expansions: A numerical method
[AD-A131974] 03 p0425 N84-12785
Description of a method and artifact for estimating volumetric uncertainty of coordinate measuring machines
[DE84-002017] 04 p0539 N84-13545
Three-dimensional, time-dependent, compressible, turbulent, integral boundary-layer equations in general curvilinear coordinates and their numerical solution
[AD-A133269] 06 p0844 N84-15504
Progress on a generalized coordinates tensor product finite element 3DPNS algorithm for subsonic
[NASA-CR-172256] 07 p1002 N84-16495
On the establishment and maintenance of a modern conventional terrestrial reference system
[NOAA-TR-NOS95-NGS-24] 07 p1029 N84-16672
Kinematics and dynamics of multi-rigid-body open-chain systems: Application to robot manipulators 08 p1204 N84-17851
Dynamic analysis of structures using Lanczos coordinates
[AD-A136387] 09 p1331 N84-18690
NRL (Naval Research Laboratory) plasma formulary, revised
[AD-A135787] 09 p1391 N84-19096
Regional acid deposition: Models and physical processes
[PB84-115997] 10 p1532 N84-20035
Adaptive grid generation using elliptic generating equations with precise coordinate controls
[AD-A137006] 10 p1570 N84-20290
A bivariate C-2 Clough-Tocher scheme
[AD-A137930] 11 p1715 N84-21183
Decomposition and scaling-inequality for line-sum-symmetric nonnegative matrices
[DE84-005639] 11 p1719 N84-21211
On the effect of using the Shapiro filter to smooth winds on a sphere 12 p1853 N84-22074
Computer-Aided Geometry Modeling
[NASA-CP-2272] 12 p1869 N84-22179
Surface grid generation for wing-fuselage bodies 12 p1870 N84-22186
Generation of surface-fitted coordinate grids 12 p1871 N84-22194
ESCHER: An interactive mesh-generating editor for preparing finite-element input 12 p1872 N84-22198
Local asymptotic approximation of nonlinear control systems
[AD-A139260] 14 p2213 N84-24288
Radiative transfer in Roche coordinates 15 p2421 N84-25544
Algorithm for determining coordinates of hypocenters of near earthquakes and seismic wave propagation velocity in layer 17 p2706 N84-27235
Local uniform mesh refinement with moving grids
[AD-A141782] 19 p3088 N84-29602
Hyperspherical coordinate theory of 2 electron atomic processes
[DE84-009447] 19 p3102 N84-29705
A Taylor series in symmetry-adaptable functions
[AD-A142336] 20 p3260 N84-30619
Spinorial relativistic rotator: The transformation from quasi-Newtonian to Minokowski coordinates
[DE84-009091] 20 p3282 N84-30639
Moving finite elements in 2-D. Technical report: Year 3
[DE84-008551] 20 p3282 N84-30640
Computation of inviscid transonic flow using flux vector splitting in generalized coordinates 21 p3323 N84-31087
Potential application of artificial concepts to aerodynamic simulation
[NASA-TM-85976] 21 p3324 N84-31093
Flapping-torsional response of helicopter rotor blades to turbulence excitation 21 p3327 N84-31110
Aeroelastic effects in multi-rotor vehicles with application to a hybrid heavy lift system. Part 1: Formulation of equations of motion
[NASA-CR-3822] 21 p3344 N84-31216
Numerical solution of the Euler and the Navier-Stokes equations for a compressible flow problem 21 p3397 N84-31551
Evaluation of the limiting accuracy in determining the coordinates of a point light source by a television tracking system using an image dissector with the presence of a nonstationary current component 22 p3571 N84-32613
Quasiconformal mappings and grid generation
[NASA-CR-173920] 22 p3644 N84-33105
Electrostatic equations for large scale plasma simulation studies
[AD-A143640] 23 p3828 N84-34277
An extended real-time microwave airplane position system 24 p3850 N84-34419
Space Shuttle AFRSI OMS pod environment test using model 81-0 test fixture in the Ames Research Center 9x7-foot supersonic wind tunnel (OS-314A/B/C)
[NASA-CR-167689] 24 p3860 N84-34464
Variational objective analyses for cyclone studies 24 p3924 N84-34840

COORDINATION
Activities of the Hydrogen Energy Coordinating Committee: Summary of DOE hydrogen programs for FY 1983
[DE84-007016] 14 p2172 N84-24011

COPERNICUS SPACECRAFT
U OAO 3

COPILOTS
U AIRCRAFT PILOTS

COPLANARITY
Multiple spacecraft observations of interplanetary shocks: Characteristics of the upstream ULF turbulence 03 p0470 N84-13097

COPOLYMERIZATION
Radiolysis of resist polymers. 1: Poly(methyl-alpha-haloacrylates) and copolymers with methylmethacrylate
[AD-A131864] 03 p0356 N84-12315
Homogenizing properties of diblock polymers in blends of corresponding homopolymers
[AD-A132832] 05 p0659 N84-14334
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-3] 13 p1953 N84-22698
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-4] 13 p1953 N84-22699
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-5] 13 p1953 N84-22700
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-6] 13 p1953 N84-22701
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-1] 18 p2817 N84-27885
Compatibilizing effect of a diblock copolymer of isotactic polystyrene and isotactic polypropylene in blends of the corresponding homopolymers
[AD-A143959] 23 p3724 N84-33601

COPOLYMERS
NT VITON
The development and study of sensitive and process-compatible polymers for X-ray lithography
[BMFT-FB-T-83-122] 02 p0202 N84-11314
Radiolysis of resist polymers. 1: Poly(methyl-alpha-haloacrylates) and copolymers with methylmethacrylate
[AD-A131864] 03 p0356 N84-12315
Diffusion and sorption of cyclohexane vapor in SBS and SBR copolymers
[AD-A132397] 04 p0506 N84-13315
Radiolysis of resist polymers. 2: Poly(haloalkylmethacrylates) and copolymers with methylmethacrylate
[AD-A132095] 04 p0507 N84-13321
Improved polymers for enhanced-oil-recovery synthesis and rheology
[DE83-017371] 04 p0507 N84-13324
Small-angle X-ray scattering study of micelle formation in mixtures of butadiene homopolymer and styrene-butadiene block copolymer
[AD-A133645] 05 p0659 N84-14330
Homogenizing properties of diblock polymers in blends of corresponding homopolymers
[AD-A132832] 05 p0659 N84-14334
Homopolymer-induced microphase separation of a homogeneous diblock copolymer
[AD-A133069] 05 p0660 N84-14337
Aerostat icing problems
[AD-A133403] 06 p0810 N84-15272
Deposition of polymer films on metal by the electrolysis of aqueous solutions of vinyl monomers
[BLL-LTS-1200/83-(5828.4F)] 08 p1136 N84-17386
Mass spectrometric decomposition studies on several azido and nitrato polymers, thermal plasticizers and novel nitramines
[AD-A134636] 08 p1137 N84-17398
Ultra-high molecular weight silphenylene-siloxane polymers
[NASA-TP-2295] 10 p1464 N84-19584
Fluoroalkyl siloxanes as liquid-repellent fabric finishes. Part 3: The durability of the copolymers and comparisons with commercially available finishes
[AD-A136662] 10 p1467 N84-19579
Modeling the mechanical behavior of elastomeric styrene-butadiene-styrene block copolymers 11 p1635 N84-20693
Surface and bulk phase separations in block copolymers and their blends
[AD-A140020] 15 p2302 N84-24815
Heat resistant copolyester-carbonate transparent plastics
[AD-P003205] 17 p2593 N84-26618
Manufacture of DPFC-DMS polymer in the SKG range
[NASA-CR-166276] 18 p2817 N84-27888
Organosilane polymers, 8
[AD-A141627] 19 p2999 N84-29004
Characterization of block copolymers based on poly(3,3 -bis(ethoxymethyl)oxetane) and other novel polyethers
[AD-A142606] 20 p3162 N84-30081
Thermal degradation studies of segmented thermoplastic elastomers
[AD-A143954] 23 p3724 N84-33600

COPPER
X-ray wear metal monitor
[AD-A131251] 01 p0012 N84-10076
Updated process flowsheets for manganese nodule processing
[PB83-226340] 01 p0047 N84-10303
Some effects of anisotropic roughening on the wetting of metal surfaces
[AERE-R-10976] 01 p0047 N84-10305
Durable copper polyimide adhesive bonds
[AD-A130221] 01 p0049 N84-10319
Matrix effects in ion-induced emission as observed in Ne collisions with Cu-Mg and Cu-Al alloys
[NASA-TM-83061] 01 p0141 N84-10923
Design and testing of high performance brushes
[AD-A131348] 02 p0213 N84-11394
Advanced-laser development for isotope separation
[DE83-016151] 02 p0227 N84-11488
Dynamic heterogeneous response of aluminum and copper to stress waves
[DE83-015229] 02 p0232 N84-11522
Solid state copper vapor laser modulator
[DE83-015837] 03 p0380 N84-12475
Thermal conductance measurements of pressed OFHC copper contacts at liquid helium temperatures
[NASA-TM-85861] 03 p0429 N84-12809
Low-cycle fatigue behavior of oxygen-free high-conductivity copper at 3000C in high vacuum
[DE84-000725] 04 p0504 N84-13305
Surface coating systems for copper and copper alloys 06 p0815 N84-15311
A formula for the sputtering yield of polycrystalline materials 06 p0816 N84-15313
Copper vapor laser scale demonstration
[AD-A133327] 06 p0850 N84-15543
Neutron cross sections for defect production by high-energy displacement cascades in copper
[DE84-002116] 07 p1083 N84-17045
Synthesis and characterization of binuclear Schiff base complexes of nickel, copper, and manganese
[AD-A135493] 08 p1132 N84-17360
Eddy current thickness gauge for reel-to-reel tape processes
[DE84-004050] 08 p1162 N84-17567
Reactions of metastable rare gases with copper atoms
[AD-A136448] 09 p1278 N84-18348
The evaporation of iron and its alloying elements, copper and manganese, under reduced pressure using the levitation melting technique
[BLL-OA-TRANS-3117-(6196.3)] 09 p1281 N84-18367
Component development
[DE84-005829] 11 p1634 N84-20681
Effect of Rhodamine-B on the electrodeposition of lead on copper
[DE84-005535] 11 p1634 N84-20683
The insulation of copper wire by the electrostatic coating process
[AD-A137715] 11 p1646 N84-20765

On the mechanical and thermoelectric behavior of composition modulated foils 11 p1666 N84-20870
Use of plain copper conductors in lieu of tinned-copper for internal cables 11 p1719 N84-21213
Influence of aging in martensite state on mechanical properties of Cu-Al-Zn system Beta-alloy 12 p1784 N84-21641
Theoretical studies of metal clusters and of chemisorption on metals [AD-A138175] 12 p1791 N84-21683
Theory of surface enhanced Raman scattering: A prospective view [AD-A138320] 12 p1793 N84-21690
Iron-copper metallization for flexible solar/cell arrays 12 p1841 N84-22000
Energy and statistical effects in the dynamic fragmentation of metal rings [DE84-005458] 14 p2128 N84-23760
Bimetal and multimetal galvanic corrosion prediction using long- and short-term polarization curves [AD-A139893] 15 p2297 N84-24786
The quick and complete recovery of the precious metals of low-grade sweeps and scrap [BMFT-FB-T-84-003] 15 p2299 N84-24801
Secondary electron emission characteristics of ion-textured copper and high-purity isotropic graphite surfaces [NASA-TP-2342] 19 p2997 N84-28989
Development of an all-metal thick film cost effective metallization system for solar cells [NASA-CR-173760] 19 p3049 N84-29350
Geology of the Portrerillos District, Atacama, Chile 21 p3438 N84-31811
The petrology and geochemistry of the Yerington Batholith and the Ann-Mason Porphyry Copper Deposit, Western Nevada 21 p3441 N84-31828
Microstructural stability of copper electroplate [DE84-010070] 21 p3498 N84-32174
Supersonic metal cluster beams [DE84-012976] 22 p3556 N84-32516
Radial distribution function as an analysis technique [DE84-013242] 22 p3665 N84-33235
Long-term creep of copper at cryogenic temperatures 23 p3716 N84-33559

COPPER ALLOYS
NT BRASSES
NT BRONZES
Thermal stability of four high-strength, high-conductivity copper sheet alloys [DE83-013312] 01 p0045 N84-10288
Evaluation of several high-strength copper sheet alloys [DE83-015612] 03 p0353 N84-12298
Characterization of the structure and substructure of thermally transformation cycled Cu-Zn-Al shape memory alloys [AD-A132341] 04 p0499 N84-13270
Copper-manganese-base silverless brazing systems [PB83-250100] 04 p0545 N84-13593
Pulsed electrodeposition of amorphous and composite alloys [AD-A132848] 05 p0646 N84-14246
Surface coating systems for copper and copper alloys 06 p0815 N84-15311
Constitution diagram of system vanadium - copper [AD-A135516] 08 p1132 N84-17361
Modification of alloy surface composition by segregation processes as a means of impurity control in fusion devices [DE84-003645] 08 p1134 N84-17373
Study of ion bombardment-induced subsurface compositional modifications in Ni-Cu alloys at elevated temperatures by ion scattering spectroscopy [DE84-003632] 08 p1135 N84-17380
Studies on age-hardening in spinodally modulated alloys: Experimental and theoretical [DE84-004650] 09 p1285 N84-18390
Effect of temperature on some of the mechanical properties of Cu-10Ni-6Sn spinodal alloy [DE84-004432] 10 p1461 N84-19538
Status of understanding for gear materials 15 p2342 N84-25061
Evolution of the phonon spectrum and the density of states at the Fermi level near the martensitic transformation in NiAl, Ti(NiCo), CuZnAl and InTl alloys [ESA-TT-767] 16 p2465 N84-25801
Melting and solidification of metallic composites 17 p2613 N84-26726
Thin film strain transducer [NASA-CASE-WLP-10055-1] 18 p2838 N84-28015
Application of HVEM in phase transformation research [DE84-009226] 19 p2996 N84-28982
Methane heat transfer investigation [NASA-CR-171051] 19 p3001 N84-29018
Tantalum-copper alloy and method for making [DE84-011081] 20 p3155 N84-30037
High temperature X-ray decomposition studies of alpha phase nickel-silicon and beta phase copper-aluminum-nickel alloys 21 p3364 N84-31338
Influence of copper on MAG deposits [CETIM-12-Y-431] 21 p3369 N84-31375
Ocean thermal energy conversion: Materials issues [DE84-012094] 21 p3434 N84-31790
Directional solidification of Al2-Cu-Al and Al3-Ni-Al eutectics during TEXUS rocket flight [NASA-TM-77552] 24 p3883 N84-34602

COPPER CHLORIDES
A study of phase transitions [AD-A136449] 09 p1395 N84-19108
Optical nonlinearity and bistability due to the biexciton two-photon resonance in CuCl 14 p2239 N84-24441
Optical bistability in CuCl 14 p2241 N84-24456
Spray pyrolysis of cadmium sulfide/copper indium selenide cells [DE84-004491] 20 p3235 N84-30537
Solid state tetrachloroaluminate storage battery having a transition metal chloride cathode [AD-D011133] 22 p3618 N84-32924

COPPER COMPOUNDS
NT COPPER CHLORIDES
NT COPPER OXIDES
NT COPPER SELENIDES
NT COPPER SULFIDES
Raman studies of CuTCNQ: Resonance Raman spectral observations and calculations for TCNQ ion-radicals [AD-A130570] 01 p0037 N84-10231
Platinum-group metals [PB83-239152] 02 p0196 N84-11291

COPPER OXIDES
Diffusion mechanisms in transition-metal oxides [DE84-003460] 08 p1236 N84-18081
Studies involving high temperature desulfurization/regeneration reactions of metal oxides for fuel cell development [DE84-003096] 18 p2876 N84-28261
Polarization of paraexciton luminescence in Cu2O crystals in magnetic field 20 p3267 N84-30670

COPPER SELENIDES
Low cost, sprayed CuInSe2 solar cell research [DE84-005339] 10 p1530 N84-20023
Low cost, sprayed CuInSe2 solar cell research [DE84-010480] 20 p3235 N84-30533
Spray pyrolysis of cadmium sulfide/copper indium selenide cells [DE84-004491] 20 p3235 N84-30537

COPPER SULFIDES
Growth of epitaxial ice crystals on covellite (CuS) under reduced air pressure 02 p0306 N84-12008
Phase transformation study of Cu2S [AD-A135587] 09 p1279 N84-18352
High resolution study of the relationship between misfit accommodation and growth of Cu sub 2-x in CdS [DE84-004636] 11 p1673 N84-20920
Characterization of single crystal Cu/sub 2S/CdS heterojunctions by hing resolution electron microscopy [DE84-006761] 13 p2048 N84-23287
Technical use of solar energy. Part 1. Thin films solar cells [BMFT-FB-T-83-298-PT-1] 15 p2362 N84-25172
Physico-chemical studies on copper sulfide. The CdS-Cu2S solar cell [BMFT-FB-T-84-065] 19 p2990 N84-28947

CORDAGE
Development of short-distance optical transmission cord 11 p1727 N84-21268
Quality and reliability of steel wire ropes [BLL-M-35461-(5828.4)] 12 p1821 N84-21872
Human strength capabilities for the operation of parachute ripcords and riser releases [AD-A138328] 12 p1868 N84-22174
Improved prediction of parachute line sail during lines-first deployment [DE84-007340] 15 p2258 N84-24583

CORDITE
U DOUBLE BASE PROPELLANTS

CORE FLOW
Waves on vortex cores and their relation to vortex breakdown 03 p0328 N84-12128
The core region of channel flows 06 p0837 N84-15452

CORE SAMPLING
Condition evaluation of Supersonic Naval Ordnance Research Track (SNORT) [AD-A140036] 15 p2265 N84-24599

CORES
NT EARTH CORE
NT MAGNETIC CORES
NT PLANETARY CORES
NT REACTOR CORES
NT STELLAR CORES
Evaluation of NRL glass for fiber optics, phase 2 [AD-A136017] 09 p1390 N84-19076
Toroidal equilibrium in an iron-core reversed field pinch [DE84-013858] 23 p3828 N84-34283

CORIOLIS EFFECT
Forced vibration analysis of rotating cyclic structures in NASTRAN [NASA-CR-165429] 02 p0231 N84-11514
On the physical processes responsible for tropical cyclone motion 02 p0252 N84-11648
Intermolecular energy-transfer processes [DE84-000334] 04 p0601 N84-13971
Effect of rotation on thermal state of runner blade through effect on heat transfer on coolant side 13 p1970 N84-22787
High-spin gamma-ray spectroscopy [DE84-010716] 20 p3296 N84-30929
The nonlinear dynamics of spinning paraboloidal antennas 21 p3476 N84-32033

CORN
An analysis of spectral discrimination between corn and soybeans using a row crop reflectance model [E84-10008] 01 p0099 N84-10642
Radar remote sensing for crop classification and canopy condition assessment: Ground-data documentation [E84-10020] 01 p0099 N84-10643
Calcium elicited asymmetric auxin transport in gravity influenced root segments 09 p1352 N84-18835
Protein and carotenoid synthesis and turnover in gravistimulated root caps 09 p1352 N84-18837
Center of Excellence for Applied Mathematical and Statistical Research in support of development of multicrop production monitoring capability [E84-10062] 10 p1520 N84-19953
Radar response from vegetation with nodal structure [E84-10085] 10 p1520 N84-19956
Argentina corn yield model [E84-10105] 12 p1829 N84-21923
Meteorological models for estimating phenology of corn [E84-10160] 17 p2709 N84-27252
Costs of measuring leaf area index of corn [E84-10162] 17 p2710 N84-27254
Suppression of asymmetric acid efflux and gravitropism in maize roots treated with auxin transport inhibitors of sodium orthovanadate [NASA-CR-173634] 17 p2740 N84-27395

CORNER FLOW
Stability of the laminar boundary layer in a streamwise corner [NASA-CR-173282] 08 p1157 N84-17532
Transonic flow around protruding corner with free streamline 13 p1972 N84-22796
Numerical simulation of shock/turbulent boundary layer interactions over 2-D compression corners 17 p2666 N84-27000
A critical assessment of viscous models of trench topography and corner flow [NASA-CR-173648] 17 p2667 N84-27005

CORNERS
Interpolation between calculated stress intensity factors of semi and quarter elliptical cracks [VTH-LR-368] 10 p1518 N84-19939
Investigation of parameters influencing the deflection of a thick wall jet by a thin wall jet coflowing over a rounded corner [AD-A142773] 21 p3325 N84-31099

CORONA DISCHARGES
U ELECTRIC CORONA

CORONAGRAPHS
Pinhole/coronograph pointing control system integration and noise reduction analysis [NASA-CR-171152] 23 p3750 N84-33773

CORONAL HOLES
Observational evidence for solar wind acceleration at the base of coronal holes 03 p0466 N84-13082

CORONAL LOOPS
Modeling of transient disturbances in coronal-streamer configurations 03 p0474 N84-13119
The behavior of the cosmic ray equatorial anisotropy inside fast solar wind streams ejected by coronal holes [IFSI-82-16] 03 p0475 N84-13130
Bright, rapid, highly polarized radio spikes from the M dwarf AD Leo [AD-A136205] 09 p1418 N84-19275
Thermal and nonthermal phenomena in solar flare loops at 20 cm wavelength and in X-rays [NASA-CR-173429] 14 p2252 N84-24522

CORONARY CIRCULATION
Normal human coronary circulation during postural tests and decompression of lower half of body 02 p0259 N84-11699

CORONAS
NT CORONAL HOLES
NT CORONAL LOOPS
NT ELECTRIC CORONA
NT SOLAR CORONA
NT STELLAR CORONAS
Associations between coronal mass ejections and interplanetary shocks 03 p0474 N84-13121
Dynamics of plasma corona on spherical targets irradiated by laser 20 p3268 N84-30878

CORPUSCULAR RADIATION
NT BETA PARTICLES
NT CYCLOTRON RADIATION
NT ELECTRON BEAMS
NT ELECTRON PRECIPITATION
NT ELECTRON RADIATION
NT ENERGETIC PARTICLES
NT ION CYCLOTRON RADIATION
NT PRIMARY COSMIC RAYS
NT RADIATION BELTS
NT RELATIVISTIC ELECTRON BEAMS
NT SOLAR COSMIC RAYS
NT SOLAR ELECTRONS
NT SOLAR PROTONS

CORRECTION
NT OPTICAL CORRECTION PROCEDURE
High precision phase shifting techniques [AD-A138397] 12 p1807 N84-21783
CIG distortion correction with delay lines [AD-D011025] 19 p3079 N84-29537
An overview of the Thematic Mapper geometric correction system 20 p3206 N84-30367
ERS synthetic aperture radar design 23 p3783 N84-33989

CORRELATION
NT ANGULAR CORRELATION
NT AUTOCORRELATION
NT CORRELATION COEFFICIENTS
NT CORRELATION DETECTION
NT CROSS CORRELATION
NT DATA CORRELATION
NT SIGNAL ANALYSIS
NT SPECTRAL CORRELATION
NT STATISTICAL CORRELATION
Space shuttle orbiter venting: Lessons learned 01 p0020 N84-10126
A review of preflight estimates of real-gas effects on space shuttle aerodynamic characteristics 01 p0020 N84-10129
Space shuttle wing leading edge heating environment prediction derived from development flight data 01 p0025 N84-10162
Low temperature behavior of fuels in simulated aircraft tanks [AD-A130267] 01 p0052 N84-10336
Correlation of electrical conductivity and thermal decomposition of phenolic materials [DE83-009186] 01 p0074 N84-10487
Fourier-processed images of dynamic lung function from list-mode data [DE83-013276] 01 p0114 N84-10741
Eddy-correlation measurements of the resistance to vertical transport of ozone [DE83-015363] 02 p0244 N84-11600
Statistical correlations of surface wind data: A comparison between a National Weather Service station and a nearby aerometric network [PB83-237263] 02 p0257 N84-11680
Unified theory of plasma correlations [AD-A131478] 02 p0296 N84-11938
Effects of pressure-drop correlations on Stirling-engine predicted performance [DE83-017279] 03 p0384 N84-12501
Representativeness of meteorological observations [DE83-017899] 04 p0568 N84-13743
On the use of marginal likelihood in time series model estimation [AD-A132828] 05 p0740 N84-14862
Influence of alloying on the properties of nickel in the solid and liquid states [BLL-M-35284-(5828.4)] 06 p0803 N84-15232
Pacific Northwest solar radiation data [DE84-002335] 06 p0882 N84-15736
Comparison of IRT observed-score and true-score equatings [AD-A133871] 06 p0891 N84-15791
Some properties of a 5-parameter bivariate probability distribution [NASA-TM-82550] 06 p0904 N84-15866
A method for stratigraphic correlation of several boreholes [CSIR-TWISK-261] 07 p1032 N84-16692
Bioecholocation method for investigation of parameters of intracranial circulation of blood and fluid in man 07 p1047 N84-16788
Resource and potential reclamation evaluation: Northeast Montana investigations [PB84-112390] 09 p1337 N84-18734
Airborne measurements of launch vehicle effluent of STS-2 launch on November 12, 1981 at Cape Canaveral, Florida [NASA-TP-2260] 09 p1342 N84-18764
Evaluation of performance measures for an urban photochemical model [PB84-115062] 09 p1343 N84-18771
Performance consistency on a perceptual-motor task as a correlate of achievement motivation [AD-A135933] 10 p1552 N84-20170
Monte Carlo calculations of elementary particle properties 10 p1561 N84-20229
Kinematics, influence functions and field quantities for disturbance propagation from moving disturbance sources [NASA-TM-77410] 11 p1601 N84-20489
Transmitted thrust on a large dual rail rocket sled system [AD-A137151] 11 p1621 N84-20608
Geochemistry of volcanic rocks from the Wawa greenstone belt 11 p1680 N84-20963
Atom-jump versus continuous models for fast ion conduction 11 p1741 N84-21357
Low frequency variability and tropical-extratropical interactions 12 p1859 N84-22113
Operationalizing halo: Problems with the computation of a standard deviation across dimensions within rates [AD-A138393] 12 p1867 N84-22164
Real-time synthetic aperture radar processing 12 p1906 N84-22416
Negative-ion formation from surface scattering and the Anderson correlation energy U [AD-A138390] 12 p1914 N84-22473
Monitoring software development through dynamic variables 13 p2027 N84-23139
Mars apleostratigraphy 13 p2090 N84-23536
Fuel property effects on USAF gas turbine engine combustors and afterburners 14 p2107 N84-23635
Ground correlation investigation of thruster spacecraft interactions to be measured on the IAPS flight test [NASA-TM-83598] 14 p2118 N84-23691
Formation and destruction of organic pollutants in thermal systems and flames 15 p2291 N84-24752
Determination of weld hydrogen content [VTT-240] 15 p2296 N84-24777
Performance derivation of turbojets and turbofans from tests in sea-level test cells 16 p2453 N84-25728
Measurement of the horizontal velocity of wind perturbations in the middle atmosphere by spaced MF radar systems 17 p2688 N84-27121
Review of correlation techniques 17 p2695 N84-27166
Correlation methods 17 p2695 N84-27167
Spectral moment estimation in MST radars 17 p2696 N84-27173
Overground Excess Sound Attenuation (ESA). Volume 2: Analysis of data for flat grassy terrain conditions [AD-A142420] 20 p3291 N84-30892
An investigation of single-substance horizontal two-phase flow [DE84-012292] 21 p3403 N84-31587
Correlation of afferent activity and binocular receptive field properties [AD-A143087] 21 p3457 N84-31938
Correlational estimation of parameters of solid state microwave devices 22 p3570 N84-32609
Frequency correlation of HF skywave ground backscatter Doppler spectra [PB84-204353] 22 p3578 N84-32668

CORRELATION COEFFICIENTS
A robust multiple correlation coefficient for the rank analysis of linear models [AD-A135666] 09 p1383 N84-19030
Regional correlation between TOMS total ozone from NIMBUS-7 satellite and geopotential height from the GLAS analysis 12 p1851 N84-22056
Study of total gamma spectra correlation for extending identification range over photopeak analysis [AD-A144637] 24 p3962 N84-35090

CORRELATION DETECTION
Some applications of multiple regression analysis — in astronomy 09 p1410 N84-19220
Coupling of current and frequency-modulated noise in Gunn oscillators 17 p2636 N84-26865

CORRELATION FUNCTIONS
U CORRELATION

CORRELATORS
Correlative phase modulation for fixed satellite services, volume 1 (phase 1) [PTI-SB-2363-21-3505-VOL-1] 08 p1147 N84-17465
Correlative phase modulation for fixed satellite service-s. Volume 2: Supplementary report [PTI-SB-2363-21-3794-VOL-2] 08 p1147 N84-17466
A new multifunction acousto-optic signal processor 12 p1906 N84-22413
A circuit design for multiplexed digital correlation at 60 MHz [AD-A139117] 14 p2142 N84-23842
Photon correlation spectroscopy and applications 22 p3683 N84-33352

CORRIDORS
NT GREAT PLAINS CORRIDOR (NORTH AMERICA)

CORROSION
NT CAVITATION CORROSION
NT ELECTROCHEMICAL CORROSION
NT FRETTING CORROSION
NT FUEL CORROSION
NT HOT CORROSION
NT INTERGRANULAR CORROSION
NT SCALE (CORROSION)
NT STRESS CORROSION
The mechanism of anaerobic (microbial) corrosion [AD-A131223] 01 p0044 N84-10283
Hydrogen-evolution monitoring as a measure of steam-generator corrosion [DE83-900677] 01 p0044 N84-10285
High-temperature corrosion of iron and iron-based alloys in sulfur-containing atmospheres [DE83-013843] 01 p0045 N84-10290
Acidic deposition and the corrosion and deterioration of materials in the atmosphere: A bibliography, 1880 - 1982 [PB83-236091] 01 p0047 N84-10302
Microbial fouling and its effect on power generation [AD-A131084] 01 p0112 N84-10726
Thermal oxidative degradation reactions of perfluoroalkiethers [NASA-CR-168224] 02 p0189 N84-11229
Corrosion of underground pipe [PB83-243923] 02 p0198 N84-11289
Accelerated compatibility testing using corrosion fatigue techniques [DE83-015104] 03 p0353 N84-12296
Breakaway corrosion in mixed-gas environments [DE83-014704] 03 p0354 N84-12299
In-situ photoacoustic spectrometry for corrosion studies [DE84-001994] 04 p0496 N84-13254
The localized corrosion of aluminum alloys: A review [AD-A132582] 04 p0498 N84-13269
Corrosion of ferrous alloys in eutectic lead-lithium environments [DE84-000593] 04 p0502 N84-13292
Analysis of lead-acid battery accelerated testing data [DE83-017403] 04 p0528 N84-13473
Residual shale-oil/diesel-engine operating compatibility program [DE84-000133] 04 p0545 N84-13587
Matrix approach to testing mirrors, part 2 [DE83-011996] 04 p0558 N84-13676
Research, development and demonstration of advanced lead-acid batteries for utility load leveling [DE84-002683] 05 p0876 N84-14444
Activities of the National Chemical Research Laboratory [CSIR-SR-CHEM-261] 06 p0796 N84-15188
Corrosion research 06 p0797 N84-15191
Corrosion of TIG welded austenitic stainless steels [BLL-WINDSCALE-TR-959-(9091.F)] 06 p0803 N84-15235
Ion plating in corrosion protection [DE84-001182] 06 p0807 N84-15256
The role of microorganisms in marine corrosion processes [AD-A133113] 06 p0885 N84-15757
Ferrous alloy metallurgy: Liquid-lithium corrosion and welding [DE84-003011] 07 p0975 N84-16317
Concentration of sulphuric acid: Premature failure of Bamag pots [MRL-R-885] 08 p1123 N84-17301
Corrosion and oxidation of vanadium-base alloys [DE84-003266] 09 p1285 N84-18393
On-site fuel cell power plant technology development program [PB84-125095] 10 p1538 N84-20076
Corrosion in large aircraft: Management of the problem 11 p1631 N84-20666
Mechanism of corrosion of Ni base superalloys by molten Na2MoO4 at elevated temperatures [NASA-TM-83580] 11 p1632 N84-20672
A study of the solidification parameters influencing structures and properties in MAR-M246(Hf) [NASA-TM-82569] 11 p1633 N84-20675
AGARD Highlights, September 1982 [AGARD-HIGHLIGHTS-82/2] 12 p1763 N84-21496
The corrosion-fatigue cooperative testing programme 12 p1763 N84-21497

Some aspects of the corrosion of iron in alkaline solutions and associated fundamental problems
[BLL-T6234/BG/LRS/LRST677/83] 12 p1795 N84-21707
Friction and wear of iron in sulfuric acid
[NASA-TP-2289] 12 p1796 N84-21716
Friction and wear of nickel in sulfuric acid
[NASA-TP-2290] 12 p1797 N84-21721
Proceedings of the Flat-Plate Solar Array Project Research Forum on Photovoltaic Metallization Systems
[NASA-CR-173477] 12 p1838 N84-21980
Observations of solar-cell metallization corrosion 12 p1839 N84-21988
A survey of gas-side fouling in industrial heat-transfer equipment
[NASA-CR-173469] 12 p1841 N84-22003
Clarification of environmental effects in stress corrosion cracking
[AD-A136561] 13 p1960 N84-22737
Characterization of zirconium alloy oxidation films by alternating current impedence
[DE84-006225] 13 p1965 N84-22766
Corrosion damage in metallic materials without mechanical loading 14 p2126 N84-23744
Prevention of stress-corrosion cracking in nuclear waste storage tanks
[DE84-001410] 14 p2128 N84-23758
Structure and porosity of electrodeposited platinum: Evaluation of 4 plating methods
[PB84-152933] 14 p2129 N84-23763
Corrosion of carbon steel in oxidizing caustic solutions
[DE84-000209] 15 p2298 N84-24792
In-situ measurements of bronze deterioration
[DE84-007300] 15 p2299 N84-24796
Status of understanding for bearing materials 15 p2342 N84-25060
Workshop on Requirements for Aircraft Corrosion Control
[AGARD-R-714] 16 p2434 N84-25613
Cost of corrosion for commercial aviation 16 p2436 N84-25624
On-line monitoring of the true corrosion rate in power plants
[CISE-2156] 16 p2465 N84-25796
Cracking threshold on steel used in aeronautical construction: Influence of the environment
[SNIAS-832-551-101] 16 p2465 N84-25797
Corrosion behavior of ion plated films 17 p2621 N84-26777
Development of concepts for corrosion assessment and evaluation of underground pipelines
[AD-A140833] 17 p2623 N84-26788
Corrosion fatigue of high strength fastener materials in seawater
[NASA-CR-174677] 17 p2723 N84-27328
Proceedings of the 5th Symposium on applied surface analysis
[AD-A140744] 17 p2768 N84-27576
Characterization of a sample of aluminum alloy longeron in 7050 T73652 of Alcoa origin. Summary of test number MO 570300 18 p2794 N84-27729
Interaction of sulfuric acid corrosion and mechanical wear of iron
[NASA-TM-83717] 18 p2813 N84-27857
Liquid metal corrosion considerations in alloy development
[DE84-008512] 18 p2815 N84-27868
Reaction kinetics in glass melts. Corrosion of SiO-2. TEXUS 4 project 18 p2819 N84-27900
Advanced high temperature materials for the energy efficient automotive Stirling engine
[NASA-TM-83659] 19 p2992 N84-28963
Potential-determining reactions during pitting corrosion of aluminum
[DE84-007695] 20 p3155 N84-30031
Environmental assisted fracture of cast and wrought steels in brine
[DE84-011870] 20 p3158 N84-30058
Perspective of the corrosive behavior of lithium and sodium
[DE84-011635] 21 p3367 N84-31362
Ocean thermal energy conversion: Materials issues
[DE84-012094] 21 p3434 N84-31790
On-site measurement of the speed of corrosion of a metal in water
[BLL-T6310/BG/WH770/84] 22 p3552 N84-32488
Ferrous alloy metallurgy, liquid lithium corrosion and welding
[DE84-014656] 22 p3556 N84-32517

CORROSION PREVENTION

Cathodic protection in simulated geothermal environments
[DE83-013690] 01 p0045 N84-10291
150 hour engine test of corrosion inhibited MIL-L-23699C oil
[AD-A131633] 03 p0356 N84-12317
Galvanic coupling between D6AC steel, 6061-T6 aluminum, Inconel 718 and graphite-epoxy composite material: Corrosion occurrence and prevention
[NASA-TP-2236] 04 p0497 N84-13263
Bound and free moisture in explosives and plastics
[DE84-001402] 04 p0509 N84-13339
Aircraft water-based solid film lubricants
[AD-A133732] 05 p0656 N84-14328
Preliminary investigation of ceramic-coated anodes for cathodic protection
[AD-A133440] 06 p0810 N84-15273
The use of Auger electron spectroscopy and ellipsometry in the study of corrosion inhibition 06 p0815 N84-15307
The effect of some water-displacing corrosion preventatives on corrosion of aluminum alloys 7075-T651 and 2024-T6
[ARL-MAT-REPT-115] 07 p0973 N84-16307
Development of a corrosion control, nonemissive paint for the protection of bilge spaces
[AD-A136270] 09 p1287 N84-18402
Corrosion and corrosion prevention in gas turbines
[NLR-MP-82048-U] 10 p1431 N84-19355
Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] 11 p1632 N84-20670
Component development
[DE84-005829] 11 p1634 N84-20681
Development of low temperature cure epoxy paint for offshore steel structures in cold areas
[NRC/CNR-TT-2078] 11 p1636 N84-20694
Scale prevention and removal by hydrodynamic fluid treatment 11 p1640 N84-20721
Corrosion control through a better understanding of the metallic substrate/organic coating/interface
[AD-A139086] 13 p1961 N84-22739
Corrosion control for reinforced concrete
[AD-A139974] 15 p2317 N84-24909
Workshop on Requirements for Aircraft Corrosion Control
[AGARD-R-714] 16 p2434 N84-25613
Current procurement specification design requirements for US Navy aircraft 16 p2434 N84-25615
Current design requirements for corrosion control on helicopters 16 p2434 N84-25616
The interpretation of design requirements for multi-market helicopters 16 p2435 N84-25617
Current requirements on specifications for corrosion prevention 16 p2435 N84-25618
US Navy corrosion control maintenance 16 p2435 N84-25619
Design and manufacturing practices to minimize corrosion in aircraft 16 p2435 N84-25620
Corrosion control maintenance practices for Canadian aircraft 16 p2435 N84-25621
Corrosion research in support of Canadian forces aircraft 16 p2435 N84-25622
Methodology for assessment of corrosion costs 16 p2435 N84-25623
Preservation, storage, handling and transportation of ESA spacecraft hardware
[ESA-PSS-01-202-ISSUE-1] 16 p2475 N84-25866
Thermally-sprayed active metal coatings for corrosion protection in marine environments
[AD-A140783] 17 p2624 N84-26795
Hydrogen fluoride formation and metal corrosion in freon-contaminated propellants 20 p3137 N84-29921
Overlay coating degradation by simultaneous oxidation and coating/substrate interdiffusion
[NASA-TM-83738] 21 p3365 N84-31344
Status of the development of a long-life engine coolant system
[AD-A143096] 21 p3413 N84-31642
A study of Beta-hydroxyamines and Beta-hydroxysulphides as corrosion inhibitors for metals
[BLL-T6313/BG/WH773/84] 22 p3552 N84-32487
Encapsulated multifunction corrosion inhibitive primer
[AD-A144311] 24 p3889 N84-34626

CORROSION RESISTANCE

NT OXIDATION RESISTANCE

Stress corrosion resistance of Z 6 CN 18-9 steel: Influence of surface treatment (shot peening, polishing)
[BLL-RISLEY-TR-4777-(9091.9F)] 01 p0041 N84-10265
Improved corrosion resistance of fine-grained 304 stainless steel in H20-CO-CO2-N2 atmospheres
[DE83-013755] 01 p0046 N84-10295
Research needs for the use of polymer coatings for corrosion protection
[DE83-015443] 01 p0051 N84-10328
Corrosion-resistant behavior of amorphous and crystallized Fe-Ni-Cr-W alloys
[DE83-016815] 02 p0197 N84-11280
Corrosion resistant coating
[NASA-CASE-NPO-15928-1] 03 p0352 N84-12289
Corrosion behavior of Fe-Cr-Ni-Zr alloys in aggressive environments at high temperatures
[DE83-014735] 03 p0353 N84-12297
Chemical properties of metallic glasses
[DE83-017353] 03 p0357 N84-12322
The structure and behavior of vacuum plasma sprayed overlay coatings on nickel based superalloys
[AD-A132631] 05 p0654 N84-14301
Methods in competition with electroplating
[BLL-OA-TRANS-3037-(6196.3)] 06 p0800 N84-15213
Ion plating in corrosion protection
[DE84-001182] 06 p0807 N84-15256
Pit initiation resistance of ferritic stainless steels in chloride environments from 800 to 2600C
[DE84-000355] 06 p0807 N84-15258
Evaluation of the pitting corrosion resistance of a Fe-12% Cr alloy 06 p0817 N84-15321
Silicon nitride: A ceramic material with outstanding resistance to thermal shock and corrosion
[NASA-TM-77067] 07 p0978 N84-16336
Structural and electrochemical properties of platinum-titanium laser surface alloys 06 p1129 N84-17348
Corrosion behavior of Ni(+)-ion irradiated NiTi alloys
[DE84-003891] 09 p1285 N84-18392
Corrosion resistance of ceramic materials to hydrochloric acid
[PB84-131333] 10 p1469 N84-19594
Development of a prototype cathode sputtering plant
[BMFT-FB-T-83-251] 10 p1472 N84-19617
Preparation and properties of electrically conducting ceramics based on indium oxide-rare Earth oxides-hafnium oxide 11 p1741 N84-21360
Production of porous sheets from metallic powders
[BLL-M-35465-(5828.4)] 12 p1796 N84-21713
Determination of the effect of composition, structure and electrochemical mass transport properties on adhesion and corrosion inhibition of paint films
[AD-A138487] 12 p1801 N84-21746
Assessment of ceramic materials technology for heat exchangers
[DE84-005748] 12 p1802 N84-21748
Workshop on Requirements for Aircraft Corrosion Control
[AGARD-R-714] 16 p2434 N84-25613
Corrosion control requirements for UK military aircraft 16 p2434 N84-25614
Current design requirements for corrosion control on helicopters 16 p2434 N84-25616
The interpretation of design requirements for multi-market helicopters 16 p2435 N84-25617
Corroeion control maintenance practices for Canadian aircraft 16 p2435 N84-25621
Methodology for assessment of corrosion costs 16 p2435 N84-25623
Material selection for controlling stress-corrosion cracking
[ESA-PSS-01-736-ISSUE-1] 16 p2465 N84-25799
Determination of the susceptibility of metals to stress corroion cracking — testing aluminum alloys
[ESA-PSS-01-737-ISSUE-1] 16 p2465 N84-25900
Corrosion of aluminium caused by alternating current
[BLL-ERA-TRANS-2920] 17 p2621 N84-26776
Stress corrosion resistance of structural steels in high chloride environments
[EUR-7435] 17 p2622 N84-26781
Corrosion behavior of experimental Ni-Cr-Mo-W-Al-Ti-Zr-C alloys in simulated advanced-HTGR helium
[DE84-010487] 18 p2814 N84-27867
The influence of overheating on the development of structures, on ductility, and on corrosion resistance of the heat effect zones of stabilized austenitic nickel-chromium steels
[MPA-83-03] 18 p2815 N84-27872
Cladding of carbon steel with stainless steel
[BMFT-FB-T-84-030] 18 p2816 N84-27877
Harwell research into the oxidation of metals: A summary
[AERE-E-11155] 18 p2816 N84-27881
Development of improved LACV-30 propeller blade coatings for protection against sand and rain erosion and marine environment corrosion
[AD-A132999] 18 p2821 N84-27914
Oxidation and corrosion resistance of candidate Stirling engine heater-head-tube alloys
[NASA-TM-83609] 19 p2992 N84-28962
Cadmium plating versus other coatings to prevent corrosion
[AD-A142504] 20 p3153 N84-30022
Ductile aluminide alloys for high temperature applications
[DE84-011037] 20 p3156 N84-30038

Corrosion of unalloyed steels in different alkaline solutions at high temperatures and under high pressures
[S/T-REPT-VOL-1-NO-1] 20 p3159 N84-30060
Quality control analysis of TA-23 glass seals for lithium ambient temperature batteries
[DE84-011719] 20 p3164 N84-30094
Corrosion resistance of selected ceramic materials to nitric acid
[PB84-176870] 20 p3164 N84-30098
Corrosion fatigue of an Al-Zn-Mg alloy and an Al-Mg-Li alloy 21 p3364 N84-31339
Powder metallurgy of light metal alloys for demanding applications
[AD-A142066] 21 p3366 N84-31352
Behavior of Ni-Cr-Si coating alloys in Na2SO4, V2O5 and mixed salt hot corrosion
[DE84-012386] 21 p3367 N84-31363
Ampule tests to simulate glass corrosion in ambient temperature lithium batteries, volume 2
[DE84-014330] 22 p3589 N84-32732
Effect of surface doping on the oxidation of chromia former alloys
[DE84-013390] 22 p3667 N84-33247
Practical implications of the use of aluminide coatings for the corrosion protection of superalloys in gas turbines 23 p3703 N84-33476
Corrosion resistant glass coating for metals 23 p3706 N84-33495
Long Term Materials Test Program
[DE84-014791] 23 p3719 N84-33579
The corrosion properties of Spacelab structural alloy aluminum 2219-T851
[ESA-STR-212] 23 p3720 N84-33585
Processing the results of fatigue testing of structural materials damaged by corrosion 24 p3873 N84-34541
Passivation of amorphous alloys with various phosphorus contents 24 p3873 N84-34542

CORROSION TESTS
NT SALT SPRAY TESTS
Development of materials for open-cycle MHD
[DE83-016334] 03 p0445 N84-12926
Development of fatigue and crack propagation design and analysis methodology in a corrosive environment for typical mechanically-fastened joints. Volume 1: Phase I documentation
[AD-A136414] 09 p1331 N84-18691
Development of fatigue and crack propagation design and analysis methodology in a corrosive environment for typical mechanically-fastened joints. Volume 2: State-of-the-art assessment
[AD-A136415] 09 p1331 N84-18692
Corrosion and corrosion prevention in gas turbines
[NLR-MP-82048-U] 10 p1431 N84-19355
Erosion of corrosion resistant coatings for jet engine compressors
[NLR-MP-83010-U] 12 p1771 N84-21550
Determination of the susceptibility of metals to stress corrosion cracking — testing aluminum alloys
[ESA-PSS-01-737-ISSUE-1] 16 p2465 N84-25800
Kinetics of corrosion of alloys of vanadium-chromium system in phosphoric acid
[BLL-M-35580-(5828.4)] 17 p2621 N84-26771
Effects of alloy composition on cyclic flame hot-corrosion attack of cast nickel-base superalloys at 900 deg C
[NASA-TP-2338] 17 p2622 N84-26783
Corrosion behavior of experimental Ni-Cr-Mo-W-Al-Ti-Zr-C alloys in simulated advanced-HTGR helium
[DE84-010487] 18 p2814 N84-27867
A new electrochemical technique for evaluation of susceptibility to pitting corrosion
[AERE-M-3372] 18 p2817 N84-27883
Corrosion of unalloyed steels in different alkaline solutions at high temperatures and under high pressures
[S/T-REPT-VOL-1-NO-1] 20 p3159 N84-30060
Corrosion fatigue of an Al-Zn-Mg alloy and an Al-Mg-Li alloy 21 p3364 N84-31339
Simulations of erosion/corrosion surface chemical reactions with a laser beam
[AD-A143001] 21 p3366 N84-31354
Time-to-corrosion of reinforcing steel in concrete slabs. Volume 5: Calcium nitrite admixture or epoxy-coated reinforcing bars as corrosion protection systems
[PB84-195239] 22 p3565 N84-32578
Method for evaluation of petroleum products corrosivity using piezoelectric crystals, part 1 — jet engine fuel corrosion tests
[FOA-C-40169-B4-PT-1] 23 p3726 N84-33611

CORRUGATED PLATES
Pressure and heating-rate distributions on a corrugated surface in a supersonic turbulent boundary layer
[NASA-TP-1024] 01 p0077 N84-10504
Buckling strength of corrugated shear webs
[NAL-TR-759] 09 p1330 N84-18684

CORRUGATING
Structural efficiency studies of corrugated compression panels with curved caps and beaded webs
[NASA-TP-2272] 09 p1329 N84-18675
Three-dimensional stressed state of longitudinally corrugated elastic cylinders 17 p2651 N84-26950
Curved cap corrugated sheet
[NASA-CASE-LAR-12884-1] 23 p3700 N84-33450

CORSAIR AIRCRAFT
U A-7 AIRCRAFT

CORTICOSTEROIDS
NT ALDOSTERONE
NT CORTISONE
Mouse adrenal corticosterone content during prolonged exposure to high-intensity stationary magnetic field 15 p2378 N84-25269

CORTISONE
Influence of microwave electromagnetic radiation and certain hormones on osmotic resistance of mouse erythrocytes 20 p3259 N84-30682

CORUNDUM
U ALUMINUM OXIDES

COSINE SERIES
Unified analytical kinematic analysis and synthesis of spatial mechanisms 16 p2501 N84-26049
Application of the discrete cosine transform to remote sensing image data compression 23 p3779 N84-33964

COSMIC BACKGROUND EXPLORER SATELLITE
Microwave and theoretical studies for Cosmic Background Explorer satellite
[NASA-CR-175248] 18 p2954 N84-28721

COSMIC DUST
NT INTERPLANETARY DUST
NT METEOROID DUST CLOUDS
NT ZODIACAL DUST
The role of H/sub 2O in molecular clouds: Line transfer and thermal balance in warm dusty medium 10 p1596 N84-20460
Toward a complete inventory of stratospheric dust particles with implications and their classification 11 p1756 N84-21464
Attempt at dust debris collection with stacked detectors (A0138-2) 15 p2276 N84-24668
Microanalytical study of some cosmic dust discovered in sea-floor sediments in China
[NASA-TM-77409] 16 p2504 N84-26068
Proceedings of the Workshop on Laboratory and Observational Infrared Spectra of Interstellar Dust
[ISBN-0-902553-29-1] 16 p2569 N84-26485
Evolution of interstellar grains 16 p2569 N84-26486
Grain destruction in interstellar shocks 16 p2569 N84-26487
On supernovae as a source of interstellar dust: The current observational picture 16 p2569 N84-26488
Grain formation in the expanding gas flow around cool luminous stars 16 p2569 N84-26489
The composition of interstellar grain mantles 16 p2570 N84-26490
Heterogeneous condensation of ice mantle around silicate core grain in molecular cloud 16 p2570 N84-26491
The 3 micron ice band 16 p2570 N84-26494
Spectroscopy of the 3.3 and 3.4 micron dust emission features 16 p2570 N84-26496
Near infrared observations of the visual reflection nebulae NGC 7023, NGC 2023 and NGC 2068 16 p2570 N84-26497
The behaviour of the 3.28 micron dust feature in NGC 2024 16 p2571 N84-26498
The 3.3 micron mapping of NGC 7027 16 p2571 N84-26499
Origins of the 3.28 micron dust emission feature 16 p2571 N84-26500
Quenched Carbonaceous Composite (QCC): A likely candidate for interstellar grains 16 p2571 N84-26501
Infrared polarimetry of young clusters 16 p2572 N84-26505
New infrared observations of IRS1, IRS3 and the adjacent nebula in the OMC-2 cluster 16 p2572 N84-26506
The near infrared polarization of NGC 7023 16 p2572 N84-26508
The energetics and mass structure of regions of star formation
[NASA-TM-85953] 16 p2575 N84-26525
AEM of extraterrestrial materials
[NASA-CR-167781] 17 p2777 N84-27630
Laboratory and observational infrared spectra of interstellar dust — conferences
[ROE-OR-12] 18 p2947 N84-28683
Evolution of interstellar grains 18 p2947 N84-28684
Grain destruction in interstellar shocks 18 p2947 N84-28685
On supernovae as a source of interstellar dust. The current observational picture 18 p2947 N84-28686
Grain formation in the expanding gas flow around cool luminous stars 18 p2947 N84-28687
The composition of interstellar grain mantles 18 p2947 N84-28688
Spectroscopy of the 3.3 and 3.4 micron dust emission features — cosmic dust 18 p2948 N84-28694
The behaviour of the 3.28 micron dust feature in NGC 2024 18 p2949 N84-28696
Origins of amorphous interstellar grains 18 p2949 N84-28701
Ice in comet dust 18 p2949 N84-28702
Nova Aquilae 1982: The nature of its dust 18 p2950 N84-28703
Infrared polarimetry of young clusters 18 p2950 N84-28704
Submillimeter wavelength survey of the galactic plane from l = -5 deg to l = +62 deg: Structure and energetics of the inner disk
[NASA-TM-86077] 20 p3319 N84-31069
Study of variable extinction of hot stars with circumstellar dust shells
[NASA-CR-173844] 21 p3522 N84-32315

COSMIC GAMMA RAY BURSTS
U GAMMA RAY BURSTS

COSMIC GASES
NT INTERPLANETARY GAS
NT INTERSTELLAR GAS
NT NEUTRAL GASES
Microwave studies of hot intracluster gas 02 p0306 N84-12011
Observation of the interstellar ice grain feature in the Taurus molecular clouds
[DE84-004316] 10 p1595 N84-20453
The role of H/sub 2O in molecular clouds: Line transfer and thermal balance in warm dusty medium 10 p1596 N84-20460
Observations of the interstellar ice grain feature in the Taurus molecular clouds 16 p2570 N84-26493
V-V compact group of galaxies
[NASA-CR-173609] 16 p2577 N84-26537

COSMIC NOISE
Derivation of the properties of the cosmic background radiation from a static world model 09 p1413 N84-19244

COSMIC PLASMA
The structure of the plasma sheet-lobe boundary in the Earth's magnetotail
[NASA-TM-85434] 03 p0463 N84-13049
Alfven masers 05 p0636 N84-14182
Three-dimensional potential structure associated with Birkeland currents
[TRITA-EPP-83-09] 12 p1912 N84-22455
Space research and cosmic plasma physics
[TRITA-EPP-83-06] 12 p1922 N84-22520
Magnetic field aligned electric fields
[TRITA-EPP-83-07] 12 p1922 N84-22521
Magnetospheric research and the history of the solar system
[TRITA-EPP-84-04] 18 p2952 N84-28713
Research in particles and fields — cosmic rays, gamma rays, and cosmic plasma
[NASA-CR-173928] 23 p3845 N84-34392

COSMIC RADIATION
U COSMIC RAYS

COSMIC RAY ALBEDO
Balloon test project: Cosmic Ray Antimatter Calorimeter (CRAC)
[NASA-TM-77461] 23 p3750 N84-33772

COSMIC RAY SHOWERS
Particle theory, cosmology and relativity
[DE84-003990] 11 p1760 N84-21489

COSMIC RAYS
NT COSMIC RAY SHOWERS
NT GALACTIC COSMIC RAYS
NT GAMMA RAY BURSTS
NT PRIMARY COSMIC RAYS
NT SOLAR COSMIC RAYS
Stormer equation implementation using offset dipole coordinates derived from specified geographic coordinates
[AD-A130079] 01 p0104 N84-10676
The high zenith angle limits of cosmic ray access to an Earth satellite
[AD-A130216] 01 p0166 N84-11092
Solar-Geophysical Data number 465, May 1983. Part 1: Prompt reports. Data for April and March 1983, and late data
[PB83-228544] 02 p0305 N84-12005
Origin of the ultra-high-energy cosmic rays
[DE83-013760] 02 p0309 N84-12025
The relative abundances of Sn, Te, Xe, Ba and Ce
[NASA-CR-174599] 03 p0465 N84-13064

Temporal variations of the anomalous oxygen component 03 p0471 N84-13099
Voyager measurements of the energy spectrum, charge composition, and long term temporal variations of the anomalous components in 1977-1982 03 p0471 N84-13100
The effect of the solar field reversal on the modulation of galactic cosmic rays 03 p0471 N84-13101
Photon damping in cosmic-ray acceleration in active galactic nuclei
[DE83-011320] 03 p0476 N84-13133
Ultra-relativistic heavy ions and cosmic rays
[DE83-015881] 03 p0476 N84-13134
Cosmic ray antimatter and baryon symmetric cosmology
[NASA-TM-83958] 04 p0622 N84-14103
Activities in interplanetary space physics
[IFSI-82-7] 05 p0761 N84-14993
Description of 1982 activities in interplanetary physics
[IFSI-83-5] 05 p0761 N84-14994
Large scale anisotropy of the 3K cosmic background radiation at 24.8, 31.4 and 46.0 GHZ 05 p0765 N84-15020
Concerning the possibility of employing superconducting systems for analyzing the composition of cosmic rays
[AD-A133792] 05 p0765 N84-15021
The 3-10 keV and 0.1- to 2-MeV observations of 4 gamma-ray bursts
[DE84-001334] 05 p0766 N84-15022
Calculation of cosmic ray induced single event upsets: Program CRUP (Cosmic Ray Upset Program)
[AD-A133620] 06 p0941 N84-16113
Log N-log S in inconclusive
[NASA-CR-173153] 07 p1093 N84-17111
Gamma-burst emission from neutron-star accretion
[NASA-TM-85436] 07 p1094 N84-17112
Ten years of Vela X-ray observations
[DE84-001302] 07 p1094 N84-17114
Effects of space radiation on advanced semiconductor devices. Part 1: A review of current theories and practice in cosmic ray simulation
[G-2532-VOL-1] 08 p1153 N84-17505
Effects of space radiation on advanced semiconductor devices. Part 2: Cosmic ray simulation experiments for the study of single event upsets in CMOS technology
[G-2745-VOL-2] 08 p1153 N84-17506
Power spectral signatures of interplanetary corotating and transient flows
[NASA-TM-86051] 08 p1244 N84-18131
The cosmic ray energy spectrum from 2 x 10-17 to 10-e-19 EV 08 p1246 N84-18146
Interplanetary flow systems associated with cosmic ray modulation in 1977 - 1980
[NASA-TM-85120] 08 p1246 N84-18149
Rapporteur paper for sessions MG1, MG3 and MG4: Modulation theory, interplanetary propagation and interplanetary acceleration
[NASA-TM-86047] 08 p1247 N84-18150
A study of the diffuse galactic gamma radiation
[NASA-TM-86055] 08 p1247 N84-18151
The ISPM cosmic-ray and solar-particle investigation 09 p1262 N84-18236
Papers presented at the Symposium on Upper Atmosphere Research in South Africa
[CSIR-S-325] 09 p1343 N84-18775
Modulation of cosmic rays with particular reference to the Hermanus neutron monitor 09 p1344 N84-18780
Space research in the Netherlands 09 p1407 N84-19194
Production of Krypton-81 and Krypton-85 by cosmic rays
[DE84-004439] 09 p1418 N84-19276
Cosmic ray exposure of SNC meteorites and constraints on their derivation from Mars 11 p1754 N84-21449
Cosmic ray exposure ages of iron meteorites, complex irradiation and the constancy of cosmic ray flux in the past 11 p1755 N84-21455
The case for antiparticles in the extragalactic cosmic radiation
[NASA-TM-86070] 11 p1760 N84-21487
Dose in critical body organs in low Earth orbit
[NASA-TM-85778] 12 p1867 N84-22169
Solar-geophysical data no. 470, October 1983. Part 1: (Prompt reports), data for September 1983, August 1983 and late data
[PB84-140359] 12 p1923 N84-22526
Measurement of the intensity of the cosmic background radiation at 3.0 cm
[DE84-008246] 14 p2252 N84-24525
A high-resolution study of ultra-heavy cosmic-ray nuclei (A0178) 15 p2275 N84-24661
Measurement of heavy cosmic-ray nuclei on LDEF (M0002-2) 15 p2276 N84-24664
Cosmic rays and the emission line regions of active galactic nuclei
[NASA-TM-86110] 16 p2582 N84-26561
Report on the activities of the Space Science Department — ESA
[ESA-SP-1062] 17 p2774 N84-27611
Elemental advances of ultraheavy cosmic rays
[NASA-CR-173650] 17 p2781 N84-27658
A guideline for heavy ion radiation testing for Single Event Upset (SEU)
[NASA-CR-173731] 18 p2929 N84-28576
Cosmic ray NM-64 neutron monitor data-9, January-December 1980, Rome, Italy
[IFSI-83-11] 18 p2954 N84-28722
Cosmic ray NM-64 neutron monitor data-10, January-December 1981, Rome, Italy
[IFSI-83-12] 18 p2954 N84-28723
Cosmic ray NM-64 neutron monitor data-9, January-December 1982, Rome, Italy
[IFSI-83-13] 18 p2954 N84-28724
Cutoff for solar cosmic rays in Earth's magnetosphere in magnetically quiet periods 19 p2973 N84-28849
The characteristics of the cylindrical drift chambers of the detector CELLO: Investigation with muons from high altitude cosmic rays
[MPI-PAE/EXP.E1.125] 19 p3028 N84-29205
Cosmic rays, solar activity, magnetic coupling, and lightning incidence
[NASA-CR-3812] 19 p3057 N84-29397
Solar-geophysical data prompt reports, February 1984, number 474. Part 1: Data for January 1984, December 1983 and late data. Explanation of data reports issued as number 474 (supplement) February 1984
[PB84-188689] 20 p3320 N84-31076
Solar-geophysical data explanation of reports, February 1984, number 474, supplement
[PB84-188697] 20 p3320 N84-31078
Photon losses in cosmic ray acceleration in active galactic nuclei
[DE84-012583] 20 p3321 N84-31081
High energy physics research at Texas Agriculture and Mining University — magnetic monopoles in cosmic rays and hadron calorimeter design
[DE84-011616] 22 p3655 N84-33167
Model for GCR-particle fluxes in stony meteorites and production rates of cosmogenic nuclides
[NASA-CR-173923] 22 p3679 N84-33321
Solar-Geophysical Data, no. 475, March 1984. Part 1: Prompt reports. Data for September 1983, May 1981
[PB84-201506] 22 p3680 N84-33329
Possible cosmological origin of the ultra high energy cosmic rays
[DE84-013083] 22 p3681 N84-33334
Balloon test project: Cosmic Ray Antimatter Calorimeter (CRAC)
[NASA-TM-77461] 23 p3750 N84-33772
Research in particles and fields — cosmic rays, gamma rays, and cosmic plasma
[NASA-CR-173928] 23 p3845 N84-34392
Solar influence on terrestrial weather and global lightning patterns via cosmic ray modulations 24 p3927 N84-34855
Cosmic Rays, no. 23. Results of researches on the international geophysics projects 24 p3993 N84-35267
Spectral characteristics of cosmic ray fluctuations 24 p3993 N84-35269
Joint analysis of the data obtained by detecting the general, muon, and neutron components of cosmic ray intensity on May 7, 1978 24 p3993 N84-35270
Calculations of the amplitude spectrum of the 27-day variations of galactic cosmic rays 24 p3993 N84-35271
Lunar variations of cosmic ray intensity 24 p3993 N84-35272
The study of peculiarities of the energy spectrum of low energy electrons in the lower atmosphere 24 p3993 N84-35273
A crossed scintillation supertelescope to measure the muon component of cosmic ray intensity 24 p3994 N84-35274
The density distribution of galactic cosmic rays allowing for the generalized tensor of anisotropic diffusion and for the real distribution of solar activity 24 p3994 N84-35275
Two large decreases of cosmic ray intensity in August and September, 1979 24 p3994 N84-35278
About the profile of cosmic ray intensity increase prior to Forbush-decrease 24 p3994 N84-35279
Large scale solar modulation of 500 MeV/N galactic cosmic rays seen from 1-30 AU
[NASA-CR-173993] 24 p3995 N84-35283

COSMIC X RAYS
Surveys of globular cluster and galactic plane X-ray sources 04 p0622 N84-14102
Joint timing analysis of A0535 + 26 at 1980 outburst
[DE84-001320] 07 p1094 N84-17113
Ten years of Vela X-ray observations
[DE84-001302] 07 p1094 N84-17114
High resolution X- and gamma-ray spectroscopy of cosmic X-ray sources
[NASA-CR-175366] 08 p1246 N84-18148
Optical characteristics of young quasars as sources of the cosmic X-ray background
[NASA-TM-85069] 11 p1760 N84-21488
Limits on soft X-ray flux from distant emission regions
[NASA-CR-173591] 16 p2582 N84-26558
Spatial fluctuations in the diffuse cosmic X-ray background, volumes 1 and 2 17 p2775 N84-27621
A search for X-ray polarization in cosmic X-ray sources — binary X-ray sources and supernovae remnants
[NASA-CR-173635] 17 p2781 N84-27657

COSMOCHEMISTRY
High pressure cosmochemistry applied to major planetary interiors: Experimental studies — phase diagram for the ammonia water system
[NASA-CR-173276] 08 p1245 N84-18138
Model for GCR-particle fluxes in stony meteorites and production rates of cosmogenic nuclides
[NASA-CR-173923] 22 p3679 N84-33321

COSMOGONY
U COSMOLOGY

COSMOLOGY
NT HUBBLE DIAGRAM
Axions in cosmology
[DE83-015590] 01 p0156 N84-11028
The polarization and anisotropy on large angular scales of the microwave background radiation in homogeneous cosmologies 02 p0306 N84-12007
Solar system history as recorded in the Saturnian ring structure
[NASA-CR-174477] 02 p0307 N84-12013
Origin of the ultra-high-energy cosmic rays
[DE83-013760] 02 p0309 N84-12025
Origin and evolution of the Saturn system
[NASA-TM-85847] 04 p0621 N84-14096
Cosmic ray antimatter and baryon symmetric cosmology
[NASA-TM-83958] 04 p0622 N84-14103
Spectrophotometry of 2 complete samples of flat radio spectrum quasars
[NASA-CR-175343] 07 p1088 N84-17077
Milgrom's revision of cosmic dynamics: Amending Newton's laws or Keplers?
[NASA-TM-86049] 08 p1244 N84-18132
Commentary on Prognoz-9 satellite 09 p1264 N84-18253
Self and cross tests of astronomical hypothesis and optimal cutoff bias-free nonparametric estimation 09 p1412 N84-19234
Derivation of the properties of the cosmic background radiation from a static world model 09 p1413 N84-19244
Royal Observatory, Edinburgh: Research and Facilities 1983
[ISBN-0-902553-27-5] 10 p1594 N84-20448
Cosmology 10 p1594 N84-20447
The case for antiparticles in the extragalactic cosmic radiation
[NASA-TM-86070] 11 p1760 N84-21487
Particle theory, cosmology and relativity
[DE84-003990] 11 p1760 N84-21489
Space research and cosmic plasma physics
[TRITA-EPP-83-06] 12 p1922 N84-22520
Activities report of the Institute of Astronomy 13 p2071 N84-23422
Matter antimatter domains: A possible solution to the CP domain wall problem in the early universe
[NASA-TM-86100] 15 p2425 N84-25565
Observational and theoretical studies of rich clusters with multiple subcondensations
[NASA-CR-173618] 16 p2575 N84-26528
Research in extragalactic astrophysics
[NASA-CR-173608] 16 p2577 N84-26536
A rigid embedding of the closed Friedmann manifold 17 p2757 N84-27502
Topics in quantum field theory and cosmology 17 p2769 N84-27583
Nonlinear growth of perturbations in an Einstein-De Sitter cosmology 17 p2776 N84-27624
Magnetospheric research and the history of the solar system
[TRITA-EPP-84-04] 18 p2952 N84-28713
Cosmogony as an extrapolation of magnetospheric research
[NASA-CR-173440] 18 p2953 N84-28720
Joint Soviet-American project for detection of gravitational waves 19 p2972 N84-28840

Axions, neutrinos and strings: The formation of structure in an SO(10) universe
[NASA-TM-86139] 22 p3678 N84-33317
Possible cosmological origin of the ultra high energy cosmic rays
[DE84-013083] 22 p3681 N84-33334
The basic concept of particle rest mass in a quantized relativistic universe
[ESA-STM-233] 23 p3832 N84-34306
Catalog of existing published periodicals of INPE, Volume 7
[INPE-2886-NTE/206] 23 p3834 N84-34320
Metal-silicate relationships in differentiated meteorites
[NASA-CR-173929] 23 p3843 N84-34384
Implications of a class of grand unified theories for large scale structure in the universe
[NASA-TM-86146] 24 p3967 N84-35240

COSMONAUTS
USSR report: Space, no. 25
[JPRS-84946] 05 p0633 N84-14159
Manned flight chronology 05 p0633 N84-14160
Cosmonauts use new instruments for Earth study 05 p0633 N84-14162
Evaluation of human blood morphological composition during exercise in sealed chamber with different concentrations of ammonia 07 p1045 N84-16779
Cosmonaut training 09 p1264 N84-18250
Beregovoy on cosmonaut training 09 p1264 N84-18251
Spacecraft simulators 09 p1264 N84-18252
Biomedical experiments on Soviet-French flight 09 p1264 N84-18254
Landing of Soyuz T-9 cosmonauts 12 p1774 N84-21573
Techniques and instruments for cosmonaut remote sensing 12 p1775 N84-21575
Main results of medical studies on Salyut-6--Soyuz program 15 p2375 N84-25249
Changes in 'Soyuz T-10' crew work schedule 19 p2971 N84-28829
Cosmonauts begin research program on 'Salyut-7' 19 p2971 N84-28830
Feoktistov recounts planning for Gagarin spaceflight 19 p2971 N84-28836
Excerpt from cosmonaut Aleksandrov's flight diary 21 p3347 N84-31232
First mixed crew in space 21 p3454 N84-31917
Physical training of cosmonauts for intercosmos program missions 23 p3805 N84-34129

COSMOS SATELLITES
NT COSMOS 1129 SATELLITE
Cosmos-1500 SLR used for Arctic ice reconnaissance 09 p1265 N84-18258
Research continues with Intercosmos-Bolgariya-1300 satellite 12 p1775 N84-21577
Development of equipment for 'Cosmos-1514' biosatellite 19 p2976 N84-28866

COSMOS 1129 SATELLITE
Bone mineral analysis of rat vertebrae following space flight: COSMOS 1129
[AD-A133178] 07 p1042 N84-16757

COSPAR (COMMITTEE)
U COMMITTEE ON SPACE RESEARCH

COST ANALYSIS
Scientist discusses problems in introducing new technology 01 p0055 N84-10357
The cost growth problem: A realistic diagnosis and solution
[AD-A131082] 01 p0159 N84-11049
Study to establish cost projections for production of Redox chemicals
[NASA-CR-167661] 02 p0241 N84-11580
Develop a normative or descriptive model of the international/domestic civil aviation industry, volume 3
[AD-A131678] 03 p0314 N84-12051
Domestic scheduled air transport for the year 2000. Financial and capacity related effects of supply alternatives, considering, also, the cooperation with high speed rail transport services — West Germany
[DFVLR-FB-83-03] 03 p0328 N84-12141
Overview of state-of-the-art flywheel technology 03 p0344 N84-12231
Electrical power trade-offs 03 p0344 N84-12232
Communications network design and costing model technical manual
[NASA-CR-168236] 05 p0666 N84-14376
Communications network design and costing model programmers manual
[NASA-CR-168237] 05 p0666 N84-14377
Communications network design and costing model users manual
[NASA-CR-168238] 05 p0666 N84-14378
Integrated bid estimate systems for contractors 05 p0717 N84-14699
Life cycle costing in a dynamic environment
[AD-A133023] 05 p0757 N84-14967
A future system design technique based on functional decomposition, supported by quantifiable design aims, and guidelines for minimum maintenance costs 06 p0769 N84-15039
US military aircraft cost handbook
[AD-A136035] 09 p1249 N84-18158
A cost prediction model for electronic systems flight test costs
[AD-A135598] 09 p1255 N84-18195
Cost and performance analysis of visual and sensor simulation systems using Defense Mapping Agency data bases
[AD-A135955] 09 p1259 N84-18220
Space Station needs, attributes and architectural options, volume 2, book 3: Cost and programmatics
[NASA-CR-173320] 09 p1271 N84-18304
Design of a project plan for the establishment of a lunar factory
[ILR-MITT-123] 10 p1435 N84-19379
Accuracy of software development activity data: The software cost reduction project
[AD-A137639] 11 p1706 N84-21122
A probabilistic analysis of silicon cost
[NASA-CR-173461] 12 p1801 N84-21741
Economic assessment of nine geothermal direct use applications
[DE84-006475] 12 p1844 N84-22021
Engine affordability --- aircraft engines
[PNR-90178] 13 p1933 N84-22574
Cost estimation model for advanced planetary programs, fourth edition
[NASA-CR-173495] 13 p1936 N84-22590
SIRE: An integrated reliability and cost model for the aerospace industry --- System Integrated Reliability Evaluator (SIRE)
[PNR-90192] 13 p1999 N84-22972
Managers handbook for software development
[NASA-TM-85604] 13 p2028 N84-23150
Cost risk trade-offs in timing the production decision
[AD-P002753] 13 p2050 N84-23300
Managing program risk: One way to reduce cost growth
[AD-P002754] 13 p2051 N84-23301
Risk analysis: Comparing different contract types
[AD-P002786] 13 p2056 N84-23335
Nuclear reactor: On schedule and under cost
[AD-P002790] 13 p2056 N84-23337
The problem of cost growth
[AD-P002792] 13 p2057 N84-23339
Expert systems for price analysis: A feasibility study
[AD-P002795] 13 p2057 N84-23341
Independent cost estimates: A case study joint vertical lift aircraft (JVX) program
[AD-P002797] 13 p2057 N84-23343
An intelligent manual for price analysis
[AD-P002798] 13 p2057 N84-23344
On 'Before' and 'After' cost comparisons
[AD-P002799] 13 p2058 N84-23345
Cost realism: Assuring more realistic contractor cost proposals
[AD-P002800] 13 p2058 N84-23346
Software improvement process: Its phases and tasks. Part 1: Text. Part 2: Appendices
[PB84-162460] 14 p2206 N84-24242
Status of understanding for gear materials 15 p2342 N84-25061
Special or general purpose end-to-end transport mechanisms in distributed systems: One view
[DE84-008297] 15 p2395 N84-25367
On a series of problems with machines: Costs of modernization and storage in case of demand
[TUM-M8312] 16 p2475 N84-25863
Problems of computing costs in decision problems 16 p2505 N84-26075
Unit production cost of the radar beacon transponder (Rbx)
[AD-A121532] 17 p2652 N84-26956
Interactive risk analysis and development of standardized factors
[AD-A140758] 17 p2753 N84-27473
Comparing software development methodologies for Ada (trade name): A study plan
[PB84-178029] 17 p2755 N84-27491
Assessment of techniques for evaluating computer systems for Federal Agency procurements
[PB84-176494] 17 p2756 N84-27496
Report on the feasibility of designing expert systems for contract price analysis
[AD-A140654] 17 p2770 N84-27590
Justification of estimates for fiscal year 1985 submitted to Congress February 1984. Aircraft procurement, Air Force
[AD-A140837] 17 p2773 N84-27610
Cost analysis of Mode S data link avionics system for the low-performance general aviation aircraft community
[DOT/FAA/PM-83/38] 18 p2795 N84-27735
Space station: Cost and benefits
[NASA-CR-173718] 18 p2806 N84-27815
Reassessment of the OHZ process for the thermochemical decomposition of water
[DE84-007806] 18 p2812 N84-27849
Sensible heat storage in water
[PP-132] 18 p2868 N84-28206
The design of an expert system for contract price analysis
[AD-A140927] 18 p2943 N84-28662
Incentive contracts and cost growth
[AD-A140930] 18 p2943 N84-28663
The Enforcer aircraft program: A lower-cost alternative weapon system
[AD-A141564] 19 p2955 N84-28728
Satellite aided navigation (INNAVSAT)
[BMFT-FB-W-84-003] 19 p2962 N84-28772
Studies of US universities' research equipment needs inconclusive
[AD-A141784] 19 p2970 N84-28821
Advanced composite stabilizer for Boeing 737 aircraft
[NASA-CR-157639] 19 p2985 N84-28915
Acquisition cost analysis for the near term military application of laser versus millimeter wave for satellite crosslink communications
[AD-A141061] 19 p3004 N84-29037
Information search in judgment tasks: The effects of unequal cue validity and cost
[AD-A141712] 19 p3063 N84-29437
Analysis of the acquisition costs of uniquely-built spacecraft versus multi-mission modular spacecraft surrogates for the military space program of the 1970's
[AD-A141120] 19 p3114 N84-29785
LONEX (Laboatory Office Network Experiment) cost/benefits study, volume 2
[AD-A141397] 19 p3114 N84-29787
Cost/risk analysis for disk retirement, volume 1
[AD-A141978] 20 p3131 N84-29861
Economics of a conceptual 75 MW hot dry rock geothermal electric power station
[DE83-015926] 20 p3236 N84-30539
Improving system affordability
[AD-A142387] 20 p3318 N84-31062
Historical research and development inflation indices for Army fixed and rotor winged aircraft
[AD-A142943] 21 p3323 N84-31085
System planning tool to measure cost avoidance resulting from independent assessment techniques applied to test program software development
[AD-P003588] 21 p3340 N84-31193
Cost/schedule management for software development
[AD-P003591] 21 p3341 N84-31196
A computerized system for establishing electric-vehicle battery requirements
[DE84-011728] 21 p3395 N84-31545
Conceptual design of an electrofluid dynamic wind energy system
[DE84-004512] 21 p3435 N84-31795
Software design issues in the implementation of hierarchical display editors 21 p3463 N84-31953
A comparison of simulator procurement/program practices: Military versus commercial
[AD-P003453] 21 p3509 N84-32230
Cost and schedule control systems criteria for contract performance measurement, information pamphlet
[DE84-012576] 21 p3516 N84-32269
The Electric Vehicle Project
[DE84-011788] 21 p3522 N84-32309
Artificial Intelligence-Robotics applications to Navy aircraft maintenance
[AD-A143219] 22 p3529 N84-32345
Energy efficient engine component development and integration program
[NASA-CR-173884] 22 p3536 N84-32389
Fuel cell power systems for Navy applications
[AD-A143402] 22 p3618 N84-32923
Analysis of benefits realized from multiyear contracting for the Black Hawk helicopter
[AD-A143485] 22 p3669 N84-33254
New techniques for adjusting reference factors
[DE84-012649] 22 p3675 N84-33300
Worst case performance of some heuristics for lot size problems
[INPE-3134-PRE/525] 23 p3817 N84-34205
Operating costs of aircraft and flight simulators
[AD-A144241] 24 p3969 N84-35132

COST EFFECTIVENESS
Methanol production from natural gas or coal
[DE83-901909] 01 p0053 N84-10340
Improvement of reliability of welding by in-process sensing and control (development of smart welding machines for girth welding of pipes)
[DE83-017012] 01 p0091 N84-10595
Guidelines for composite materials research related to general aviation aircraft
[NASA-CR-3720] 02 p0187 N84-11218

Estimating temperature and moisture regimes in forest and rangeland soils using thermal remote sensing
[PB83-237453] 02 p0241 N84-11577
Technology and the future evolution of the ATC system 03 p0329 N84-12148
Cost efficient on board power for airline operation 03 p0335 N84-12180
Advanced Control and Power System (ACAPS) technology program 03 p0345 N84-12243
Feasibility of using a large press (80,000 - 200,000 tons) for manufacturing future components on Army systems
[AD-A132396] 04 p0544 N84-13582
A future system design technique based on functional decomposition, supported by quantifiable design aims, and guidelines for minimum maintenance costs 06 p0769 N84-15039
Design, development and flight test of a demonstration advanced avionics system 06 p0773 N84-15067
Productivity improvement in a purchase division: Evaluation of a Performance Contingent Reward System (PCRS)
[AD-A133589] 07 p1050 N84-16801
Microcomputer software system development: Suggested revisions to MIL-STD-1521A for cost-effective acquisition of custom software through software engineering
[AD-A134363] 07 p1055 N84-16830
Feasibility assessment of JOVIAL to Ada translation
[AD-A134857] 08 p1213 N84-17911
A strategy for improving overhead cost control
[AD-A134661] 08 p1238 N84-18092
Preventive maintenance intervals for components of the F-15/F100 aircraft engine
[AD-A135637] 09 p1249 N84-18156
Establishment and discontinuance criteria for Automated Weather Observing Systems (AWOS)
[AD-A135674] 09 p1349 N84-18811
Greater emphasis on testing needed to make computer software more reliable and less costly
[PB84-113513] 09 p1370 N84-18944
Machine intelligence research applied to industrial automation
[PB84-123348] 10 p1473 N84-19618
Application of fuel/time minimization techniques to route planning and trajectory optimization 11 p1616 N84-20578
Development of procedures for component mode synthesis
[DFVLR-IB-232-82-C-09] 12 p1782 N84-21626
Methodology for benefit analysis of CAD/CAM (Computer-Aided Design/Computer-Aided Manufacturing) in USN shipyards
[AD-A138398] 12 p1882 N84-22270
Cost effectiveness of reliability in the aerospace industry
[PNR-90187] 13 p1999 N84-22971
Aircraft noise legislation: An overkill
[PNR-90167] 13 p2010 N84-23037
Current research in the Software Engineering Laboratory (SEL) 13 p2026 N84-23138
Projecting manpower to attain quality 13 p2028 N84-23148
Documentation for software maintenance
[AD-A138663] 13 p2028 N84-23152
A comparison of several alternatives to maximum likelihood for the Weibull distribution
[AD-A138721] 13 p2036 N84-23208
Consolidation of DOD bidder's mailing list application
[AD-P002752] 13 p2050 N84-23299
An analysis of the acquisition strategy decision process along three dimensions of the acquisition improvement program
[AD-P002758] 13 p2051 N84-23305
Contract requirements: A key to controlling DoD acquisition costs
[AD-P002828] 13 p2062 N84-23373
USSR report: Science and technology policy
[JPRS-UST-84-005] 13 p2065 N84-23394
Problems of prompt adoption of new technology discussed 13 p2065 N84-23396
Conceptual design study. Science and Applications Space Platform (SASP). Final briefing
[NASA-CR-173520] 14 p2114 N84-23670
Second interim briefing (D3). Evolutionary Science and Applications Space Platform. Characterization of concepts, tasks A and B
[NASA-CR-173521] 14 p2115 N84-23671
Multiple-foil microabrasion package (A0023) 15 p2276 N84-24666
Economics of installation of solar heating plants 17 p2641 N84-26896
The life cycle cost of integrated logistic support 17 p2652 N84-26962
Concentrator development 18 p2871 N84-28225
Environments for evaluating performance of C3I (Command, Control, Communications, and Intelligence) systems
[AD-P003237] 18 p2902 N84-28404
The Enforcer aircraft program: A lower-cost alternative weapon system
[AD-A141564] 19 p2955 N84-28728
National airspace review benefits and costs
[FAA-AT-84-1] 19 p2961 N84-28765
Panel fabrication utilizing GaAs solar cells 19 p3048 N84-29337
High speed, low cost, LEO-thermal-cycling facility 19 p3048 N84-29340
Synthesis of major economic studies of residential photovoltaics
[NASA-CR-173766] 19 p3049 N84-29349
Psychoacoustic considerations for helicopter noise quantification: Metrics, human response and criteria 19 p3066 N84-29675
Analysis of the acquisition costs of uniquely-built spacecraft versus multi-mission modular spacecraft surrogates for the military space program of the 1970's
[AD-A141120] 19 p3114 N84-29785
LONEX (Laboratory Office Network Experiment) cost/benefits study, volume 1
[AD-A141396] 19 p3114 N84-29786
Remote sensing and the private sector: Issues for discussion
[PB84-160777] 20 p3229 N84-30520
Multi-100kW: Planar low cost solar array development
[NASA-CR-171119] 20 p3234 N84-30529
Technical and cost potential for lightweight, stretched-membrane heliostat technology
[DE84-004433] 20 p3236 N84-30543
Computer science and technology: Report on approaches to database translation
[NBS-SP-500-115] 20 p3268 N84-30739
Computer science and technology: Introduction to software packages
[NBS-SP-500-114] 20 p3268 N84-30740
Increase of efficiency in cooled high temperature turbines
[BMFT-FB-W-84-019] 21 p3343 N84-31212
Cost effectiveness of converting to alternative motor vehicle fuels. A technical assistance study for the city of Longview
[DE84-010479] 21 p3375 N84-31415
Wind energy systems for electric utilities: A synthesis of value studies
[DE84-004520] 21 p3435 N84-31796
Determining cost and training effectiveness tradeoffs for trainer design: Test of an experimental model
[AD-P003455] 21 p3509 N84-32232
Cost-effective and efficient maintenance training devices: A user accepted design process
[AD-P003456] 21 p3509 N84-32233
Effectiveness of multi-year and advance procurement contracts
[AD-P003462] 21 p3510 N84-32239
Increased readiness through modularity
[AD-P003491] 21 p3514 N84-32257
Profit responsibilities in the simulation and training equipment industry
[AD-P003497] 21 p3515 N84-32263
Proceedings of the Flat-Plate Solar Array Project Research Forum on the Design of Flat-Plate Photovoltaic Arrays for Central Stations
[NASA-CR-173918] 22 p3582 N84-32683
Integrated technology wing design study
[NASA-CR-3586] 23 p3693 N84-33402
Glass heating panels and method for preparing the same from architectural reflective glass
[NASA-CASE-NPO-15753-1] 23 p3723 N84-33589
Evaluation of microstrip radiators as feeds for reflector antenna — satellite antenna
[ERA-83-0056] 23 p3732 N84-33655
Comprehensive silicon solar cell computer modeling
[NASA-CR-173953] 23 p3788 N84-34025

COST ESTIMATES

Preliminary analysis of the seismic vulnerability of selected buildings at Fort Ord, California using the rapid elamic analysis procedure
[AD-A130924] 01 p0057 N84-10372
Low-temperature forming of beta titanium alloys
[NASA-CR-3706] 02 p0193 N84-11253
Guidance needed if better Freedom of Information Act costs reports are desired
[PB83-242040] 02 p0303 N84-11987
Design analysis of advanced photovoltaic technologies
[DE84-000008] 04 p0557 N84-13675
Collapsible photovoltaic-concentrator array portable power from the Sun
[DE84-000713] 04 p0558 N84-13677
Cell-substrate bonding system design and development
[DE84-000963] 04 p0558 N84-13678
Integrated bid estimate systems for contractors 05 p0717 N84-14899
Line-focusing adjustable parabolic solar-concentrating collector
[DE84-001590] 06 p0674 N84-15687
Estimating the cost of composite material airframes using the Rand Corporation Development and Procurement Costs of Aircraft parametric model (DAPCA III)
[AD-A134993] 08 p1095 N84-17120
Development of a solar energy system
[DE83-014236] 08 p1180 N84-17690
Development of a solar energy system: Executive summary
[DE83-014392] 08 p1181 N84-17693
A cost prediction model for electronic systems flight test costs
[AD-A135598] 09 p1255 N84-18195
Software Acquisition Resource Expenditure (SARE) data collection methodology
[AD-A137084] 10 p1564 N84-20247
Statistical models for estimating overhead costs
[AD-A137351] 10 p1593 N84-20444
Authorizing appropriations to the National Aeronautics and Space Administration for fiscal year 1985
[H-REPT-98-629] 11 p1753 N84-21441
Demonstration of the coast-down technique for determining train resistances
[NASA-CR-173468] 12 p1785 N84-21515
A probabilistic analysis of silicon cost
[NASA-CR-173461] 12 p1801 N84-21741
Economic implications of current systems 12 p1838 N84-21982
Advanced cogeneration research study: Executive summary
[NASA-CR-173467] 12 p1841 N84-22005
Functional requirements for the development and use of a software-cost database
[AD-B079998] 12 p1885 N84-22287
Cost estimation model for advanced planetary programs, fourth edition
[NASA-CR-173495] 13 p1936 N84-22590
Advanced planetary studies
[NASA-CR-173496] 13 p1936 N84-22591
Manufacturing cost analysis for photovoltaic concentrator tracking structures
[DE84-006318] 13 p2009 N84-23032
An approach to software cost estimation
[NASA-TM-85607] 13 p2026 N84-23136
Proceedings of the Federal Acquisition Research Symposium with Theme: Government, Industry and Academe: Synergism for Acquisition Improvement
[AD-A137700] 13 p2049 N84-23293
Managing program risk: One way to reduce cost growth
[AD-P002754] 13 p2051 N84-23301
Assumption of risk in the R and D environment
[AD-P002757] 13 p2051 N84-23304
Cost risk and contract type: A normative model
[AD-P002781] 13 p2055 N84-23328
A cost based acquisition planning model utilizing expert system concepts
[AD-P002783] 13 p2055 N84-23330
An application of the causal-integrative model
[AD-P002786] 13 p2056 N84-23333
An automated airframe production cost model
[AD-P002787] 13 p2056 N84-23334
Independent cost estimates: A case study joint vertical lift aircraft (JVX) program
[AD-P002797] 13 p2057 N84-23343
On 'Before' and 'After' cost comparisons
[AD-P002799] 13 p2058 N84-23345
Cost realism: Assuring more realistic contractor cost proposals
[AD-P002800] 13 p2058 N84-23346
Trends of jet fuel demand and properties 14 p2106 N84-23631
Software Cost Estimation Workshop report
[AD-A139840] 15 p2392 N84-25354
Estimate of the consumer cost of aluminum fuel for electric vehicles
[DE84-008327] 15 p2421 N84-25539
SAMICS: Engineering/economic model to predict costs 15 p2430 N84-25591
Methodology for assessment of corrosion costs 16 p2435 N84-25623
Cost of corrosion for commercial aviation 16 p2436 N84-25624
Microbiological and biochemical studies towards optimization of subetrate utilization by methanogenic bacteria
[PB84-179753] 16 p2474 N84-25859

Costs of measuring leaf area index of corn
[E84-10162] 17 p2710 N84-27254
Justification of estimates for fiscal year 1985 submitted to Congress February 1984. Other procurement, Air Force
[AD-A140835] 17 p2773 N84-27606
Justification of estimates for fiscal year 1985 submitted to Congress February 1984. Missile procurement, Air Force
[AD-A140836] 17 p2773 N84-27609
Justification of estimates for fiscal year 1985 submitted to Congress February 1984. Aircraft procurement, Air Force
[AD-A140837] 17 p2773 N84-27610
Space station needs, attributes, and architectural options: Space station program cost analysis
[NASA-CR-173696] 18 p2803 N84-27790
Computer analysis of effects of altering jet fuel properties on refinery costs and yields
[NASA-CR-174642] 18 p2820 N84-27908
A review of the silicon material task
[NASA-CR-173743] 18 p2868 N84-28210
A cost data base for the development of technical/scientific software
[NLR-TR-83047-U] 18 p2922 N84-28529
Source circuit design considerations
22 p3583 N84-32690
New techniques for adjusting reference factors
[DE84-012649] 22 p3675 N84-33300
Energy Conversion and Utilization Technologies Program (ECUT) electrocatalysis research
[NASA-CR-173939] 23 p3713 N84-33534
Investigation of test methods, material properties and processes for solar cell encapsulants
[NASA-CR-173940] 23 p3789 N84-34029
Low cost solar array project. Experimental process system development unit for producing semiconductor-grade silicon using the silane-to-silicon process
[NASA-CR-173936] 23 p3789 N84-34034
Manual of phosphoric acid fuel cell power plant cost model and computer program
[NASA-CR-174720] 23 p3790 N84-34037
Cogeneration Technology Alternatives Study (CTAS). Volume 2: Comparison and evaluation of results
[NASA-TM-81401] 23 p3790 N84-34038
Standardization in software conversion of (ROM) estimating
24 p3862 N84-34475

COST REDUCTION
Programmer's manual for the fire safety evaluation system cost minimizer computer program
[PB83-251447] 04 p0517 N84-13395
Evaluating proposed improvements of public rangelands
[PB83-251124] 04 p0556 N84-13669
Development, production and testing of the primary structure for the Shuttle Pallet Satellite (SPAS-01)
[MBB-UR-580-82-OE] 05 p0642 N84-14227
New technologies in the forefront of industrial developments
07 p0944 N84-16123
Systems/operations technology
09 p1268 N84-18278
Auxiliary propulsion
09 p1268 N84-18283
Evaluation of radio navigation systems and their configuration with respect to minimum cost
[DFVLR-FB-83-32] 10 p1426 N84-19329
Development and prototype production of photovoltaic energy supply systems
[BMFT-FB-T-83-238] 10 p1531 N84-20025
Optimization of a stiffened plate
[IWECO-5071303-82-1] 12 p1827 N84-21911
Engine affordability — aircraft engines
[PNR-90178] 13 p1933 N84-22574
Proven design + new technology = reliability + economy — aircraft engines
[PNR-90199] 13 p1999 N84-22973
Development and demonstration of economic production systems in airframe construction. Part 2: Technological phase. Part 6: Review
14 p2093 N84-23555
MRCA run-in floors
14 p2093 N84-23557
Additionally compressed titanium fine cast components
14 p2094 N84-23559
Profitability improvement of projects by early consideration of life cycle cost reduction
[MBB-UR-620-83-O] 14 p2247 N84-24495
Determination of the key parameters affecting historic communications satellite trends
[NASA-TM-83633] 16 p2481 N84-25908
Airline experience with avionic software development for aircraft integrated data systems
17 p2587 N84-26581
Aircraft Integrated Data Systems (AIDS) on medium size aircraft
17 p2587 N84-26582
Polycrystalline silicon sheets for solar cells by the improved spinning method
18 p2937 N84-28626
Flexible manufacturing line for aircraft structures of sheet metal
[BMFT-FB-W-84-011] 19 p2955 N84-28731
Multi-100kW: Planar low cost solar array development
[NASA-CR-171119] 20 p3234 N84-30529
Feasibility study of a low cost Energy Performance Management System (EPMS) — automatic flight control
[BMFT-FB-W-84-015] 21 p3328 N84-31116
Wind turbine generator interaction with conventional diesel generators on Block Island, Rhode Island. Volume 2: Data analysis
[NASA-CR-168319] 21 p3433 N84-31783
Increase of the electric power characteristic number in industrial power stations. Adaptation of Power-Heat Coupling (PHC) to a new consumption structure
23 p3791 N84-34047

COSTS
NT AIRCRAFT PRODUCTION COSTS
NT FREIGHT COSTS
NT LIFE CYCLE COSTS
NT LOW COST
NT OPERATING COSTS
Space telescope cost, schedule and performance
[GPO-24-522] 02 p0305 N84-12001
Detecting long-term ecological effects in forests and food chains
[DE83-003469] 03 p0406 N84-12655
Control and operation cost optimization of the HISS cryogenic system
[DE83-017741] 04 p0515 N84-13384
Cost problems in international collaboration
[MBB-UA-571-82-OE] 05 p0760 N84-14988
Local automation model: Functional description
[AD-A133389] 06 p0935 N84-16077
State-of-the-art survey of existing knowledge for the design of ground-source heat pumps
[DE84-002868] 07 p1003 N84-16504
Average optimality criteria in the problems with unlimited control rates
[PB84-127943] 09 p1384 N84-19040
Possibilities for the future organization of air transport in the European community
10 p1424 N84-19309
Cost accounting standards: A time for government and industry action
[AD-P002767] 13 p2053 N84-23314
Contracting initiative: Best proposal for price
[AD-P002782] 13 p2055 N84-23329
The problem of cost growth
[AD-P002792] 13 p2057 N84-23339
Value and competition
[SNIAS-832-501-101] 15 p2416 N84-25504
Competition as an acquisition strategy: Impact of competitive research and development on procurement costs
[AD-A141313] 18 p2944 N84-28667
National airspace review benefits and costs
[FAA-AT-84-1] 19 p2961 N84-28765
Engineering research on positive displacement gas expanders, phase 1
[DE84-008977] 20 p3198 N84-30310
Computer programs for summarizing climatic data stored in the National Fire Weather Data Library
[PB84-197011] 21 p3449 N84-31886
Low cost solar array project. Experimental process system development unit for producing semiconductor-grade silicon using the silane-to-silicon process
[NASA-CR-173936] 23 p3789 N84-34034
Viking lander: Building a complex spacecraft
24 p3991 N84-35256

COTTON
NT COTTON FIBERS
Increase of cold tolerance in cotton plant (Gossypium hirsutum L.) by mepiquat chloride
[E84-10086] 10 p1521 N84-19959
Reflectance measurements of cotton leaf senescence altered by mepiquat chloride
[E84-10089] 10 p1521 N84-19960

COTTON FIBERS
Finite element analysis of fabrics with nonlinear stress-strain laws
[AD-P002977] 14 p2202 N84-24213

COUETTE FLOW
Complex eigenvalues for the stability of Couette flow
[NASA-CR-172251] 04 p0531 N84-13492
Two-fluid couette flow between concentric cylinders
[AD-A137969] 12 p1815 N84-21834

COULEES
U CANYONS

COULOMB COLLISIONS
Coulomb explosion and recent methods for studying molecular decomposition
[DE83-012348] 01 p0142 N84-10933
Self-consistent models for Coulomb heated X-ray pulsar atmospheres
[NASA-TM-85087] 02 p0307 N84-12012
Electrostatic waves and anomalous transport in the solar wind
03 p0470 N84-13095
Canonical derivation of the Vlasov-Coulomb noncanonical poisson structure
[DE84-002909] 07 p1064 N84-16900

COULOMB POTENTIAL
Localized magnetization arising from spin-dependent impurity potentials in the Wolff model
[AD-A133652] 05 p0742 N84-14871
Thermodynamics of condensed ionic systems
[DE84-001823] 05 p0755 N84-14950
Progress in numerical calculations of ion-atom collisions
[DE84-003405] 08 p1229 N84-18033

COUNTER ROTATION
Technology and benefits of aircraft counter rotation propellers
[NASA-CR-168258] 04 p0485 N84-13186

COUNTERFLOW
Computer program for performance and sizing analysis of compact counter-flow plate-fin heat exchangers, research and development report
[AD-A129656] 01 p0078 N84-10508
Numerical simulation of the countercurrent flow in a gas centrifuge
[DE83-013323] 02 p0218 N84-11432
Remarks on the axial flow taper in a countercurrent gas centrifuge
[DE84-002931] 07 p1003 N84-16506

COUNTERMEASURES
NT CHAFF
NT ELECTRONIC COUNTERMEASURES
NT JAMMING
NT OPTICAL COUNTERMEASURES
Program approach document
[AD-A135886] 09 p1300 N84-18501
Passive countersurveillance: An overview
24 p3914 N84-34781
Millimetre waves: A problem for the future
24 p3915 N84-34790
Design study of ion anti-contamination system
[AD-A144197] 24 p3963 N84-35097

COUNTERS
NT ELECTRON COUNTERS
NT NEUTRON COUNTERS
NT NEUTRON SPECTROMETERS
NT PROPORTIONAL COUNTERS
NT QUANTUM COUNTERS
NT RADIATION COUNTERS
NT SCINTILLATION COUNTERS
NT SPARK CHAMBERS
Study of the characteristics of high pressure proportional counters for the detection of radioactive gases
[AD-A135803] 09 p1280 N84-18356
Reasoning about digital circuits
[AD-A136634] 09 p1365 N84-18914
Large area spark counters with fine time and position resolution
[DE84-007804] 15 p2337 N84-25031
Laser cell analyzer
17 p2741 N84-27406
Isotopically selective counting of noble gas atoms, using resonance ionization spectroscopy
[DE84-011638] 21 p3361 N84-31320
Digital rotation measurement unit
[DE84-010872] 21 p3392 N84-31528

COUNTING
Computation of counting distributions arising from a single-stage multiplicative process
[AD-A131480] 01 p0072 N84-10471
Statistical review of counting accelerometer data for Navy and Marine fleet aircraft from 1 January 1962 to 31 December 1982
[AD-A134289] 07 p0951 N84-16169
Program for a constructive physics
[DE84-005425] 12 p1916 N84-22486

COUNTING CIRCUITS
NT SCALERS
Pulse-train residue arithmetic circuit using multiple-valued charge-coupled devices and its application to digital filter
[AD-P002345] 14 p2191 N84-24136
Pulse and interval distributor with sensor control
17 p2637 N84-26867

COUPLED MODES
Universality and fractal dimension of mode locking structure in systems with competing periodicities
[DE83-017352] 03 p0390 N84-12545
Acoustic responses of coupled fluid-structure system by acoustic-structural analogy
10 p1510 N84-19883
Electrochemistry of the sulfide-polysulfide couple
[DE84-005681] 11 p1629 N84-20661
Surface acoustic wave resonators in layered substrates with large electromechanical coupling coefficient
13 p2039 N84-23230

Vibration and flutter of mistuned bladed-disk assemblies
[NASA-TM-83634] 14 p2157 N84-23923
The ASTRO-1 preliminary design review coupled load analysis
[NASA-TM-82587] 19 p3034 N84-29246
Cosmic rays, solar activity, magnetic coupling, and lightning incidence
[NASA-CR-3812] 19 p3057 N84-29397
Analysis of the influence of nonlinear and dissipative effects in atmospheric plasma
[ISSN-0208-5658] 19 p3106 N84-29732

COUPLERS
NT ANTENNA COUPLERS
NT COUPLING CIRCUITS
NT DIPLEXERS
Optical fiber gyroscope with (3x3) directional coupler
[AD-D011152] 23 p3750 N84-33771
Slotline reverse-phased hybrid ring coupler
[AD-D011182] 24 p3897 N84-34673
Fiber optic rotation-sensing gyroscope with (3x2) coupler
[AD-D011195] 24 p3902 N84-34706

COUPLING
NT CROSS COUPLING
NT MICROWAVE COUPLING
NT OPTICAL COUPLING
NT THERMODYNAMIC COUPLING
Structural gradient in the silane coupling agent layers and its influence on the mechanical and physical properties of composites
[AD-A130864] 01 p0031 N84-10197
Hydrothermal stability of gamma-aminopropyltriethoxysilane coupling agent on ground silicon powder and E-glass fibers
[AD-A130904] 01 p0037 N84-10234
Electromagnetic coupling to an infinite wire through a small aperture of arbitrary shape
[AD-A130425] 01 p0062 N84-10407
Nonlinear stability control
[DE83-014341] 01 p0082 N84-10532
A review of research in chemical-acoustic coupling
[AD-A129896] 01 p0140 N84-10915
Tau and B lifetime measurements from the MARK 2
[DE83-018219] 03 p0439 N84-12879
Strong coupling effects on bound states in plasmas
[AD-A131661] 03 p0444 N84-12918
Analysis of stability and symmetry implications for ICF
[DE84-000640] 04 p0540 N84-13556
Resonance-resonance coupling in dissociative electron attachment
[DE84-001767] 04 p0602 N84-13972
Analysis of airborne antenna pattern and mutual coupling and their effects on adaptive array performance
05 p0672 N84-14416
Magnetic field coupled velocimeters
[AD-A134002] 05 p0679 N84-14466
Multifrequency scattering for target characterization and identification: A summary of recent results
06 p0870 N84-15663
Effect of blade structural parameters on helicopter vibrational characteristics
[AD-A134547] 07 p0951 N84-16174
A coupling method for the inverse mode calculation of transonic internal flows with a shock wave
07 p0955 N84-16194
Radiating dipole model of interference induced in spacecraft circuitry by surface discharges
[NASA-TP-2240] 07 p0964 N84-16247
General cases of the pseudoquadrupole interaction in (169)T-m
[DE83-015685] 07 p1082 N84-17040
Intrasystem Analysis Program (IAP) code summaries
[AD-A135673] 09 p1301 N84-18507
EMC (electromagnetic compatibility) system test and analysis interface
[AD-A136064] 09 p1303 N84-18519
Effects of mutual coupling on the performance of adaptive arrays
[AD-A136083] 09 p1309 N84-18560
Modal deformations and stresses — modal coupling methods
[ED-81-343/RD] 09 p1334 N84-18712
Inertial fusion research at the University of Rochester: Progress in direct drive
[DE84-003691] 10 p1501 N84-19807
The Shock and Vibration Bulletin. Part 2: Fluid-structure dynamics and dynamic analysis
[AD-A134453] 10 p1510 N84-19881
Basic experimental study of the coupling between flow instabilities and incident sound
[NASA-CR-3789] 11 p1728 N84-21275
Electromagnetic coupling between a conducting body and an aperture in an infinite conducting plane
[AD-A138394] 12 p1898 N84-22361
Acoustic-to-Seismic coupling over porous ground surfaces
[AD-A138753] 13 p2011 N84-23046
Coupling of airborne sound in a sandy soil — containing seismic sensors
[LEOK-TR-1983-09] 13 p2040 N84-23238
Proof of principle experiment for a coherent CO2 waveguide laser array
[AD-A139121] 14 p2150 N84-23881
The coupling of tracked and interior waves in a front tracking scheme
[AD-P002944] 14 p2197 N84-24184
Ballooning precessional instabilities in a single cell hot electron plasma
[DE84-007017] 14 p2230 N84-24373
Dilute plasma coupling currents to a high voltage solar array in weak magnetic fields
[NASA-TM-83667] 15 p2283 N84-24706
Blast-wave analysis of high-pressure coupling shells
[AD-A139687] 15 p2350 N84-25108
Coupling between the thermosphere and the stratosphere: The role of nitric oxide
[AERONOMICA-ACTA-A-270-1983] 16 p2520 N84-26175
Applications of Riemann-Hilbert problem techniques to electromagnetic coupling through apertures
[DE84-009532] 19 p3009 N84-29073
Hierarchial command, control and coupled bilinear systems
[AD-A142401] 20 p3280 N84-30823
Non-geometrical optics investigation of mode conversion in weakly relativistic inhomogeneous plasmas
[DE84-012396] 20 p3306 N84-31002
Adaptive antennas for tropospheric radio relay lines
21 p3377 N84-31432
Normal zone detectors for a large number of inductively coupled coils, revision 1
[DE84-011053] 21 p3392 N84-31526
Large-scale atmosphere-ocean coupling
[AD-A143162] 21 p3447 N84-31873
Beam cavity coupling impedance
[DE84-014064] 22 p3578 N84-32662
Coupling an induction motor type generator to ac power lines — making windmill generators compatible with public power lines
[NASA-CASE-MFS-25302-2] 23 p3734 N84-33660
Hermetic single longitudinal mode CW lasers coupled to single mode optical fiber pigtails
[AD-A143626] 23 p3754 N84-33792
The effect of thermomechanical coupling in the case of a thick-wall sphere and tube subjected to internal pressure
[ISSN-0208-5658] 23 p3759 N84-33823
A formulation of rotor-airframe coupling for design analysis of vibrations of helicopter airframes
[NASA-RP-1089] 23 p3760 N84-33832
Coupling of the solar wind to the magnetosphere
23 p3837 N84-34337
Application of satellite data to tropic/subtropic moisture coupling
24 p3926 N84-34849

COUPLING CIRCUITS
Resonant parametric transducer
[IFSI-83-10] 18 p2835 N84-27995

COUPLING COEFFICIENTS
Resonant-3-wave mode coupling in inhomogeneous plasmas: Symmetry breaking by omega meson-*
[DE84-001633] 04 p0606 N84-13999
On the stability of flight vehicles in the low Reynolds number non-linear regime
[AD-A138379] 12 p1773 N84-21559
Piezoelectric shear wave resonator and method of making same
[DE84-014528] 23 p3751 N84-33780
Solar influence on terrestrial weather and global lightning patterns via cosmic ray modulations
24 p3927 N84-34855

COUPLINGS
Nonlinear coupling responses to variable frequency excitations
10 p1515 N84-19920
Apparatus for releasably connecting first and second objects in predetermined space relationship
[NASA-CASE-MSC-18969-1] 13 p1938 N84-22605
Aerospace engineering design by systematic decomposition and multilevel optimization
[NASA-TM-85823] 19 p2982 N84-28775
Shaft coupling device
[AD-D011080] 21 p3413 N84-31644

COURSES
U PATHS

COVALENT BONDS
Understanding localized behavior in the Auger spectra of covalent systems such as graphite
[AD-A133924] 05 p0647 N84-14255

COVARIANCE
Likelihood ratio tests on covariance matrices and mean vectors of complex multivariate normal populations and their applications in time series
[AD-A131523] 01 p0133 N84-10874
Mixture models for dependent observations
03 p0393 N84-12562
Discrimination relative to measures of non-normality
03 p0393 N84-12566
Covariant theory with a confined quantum
[DE83-014897] 03 p0435 N84-12850
A multiple ranking procedure adapted to discrete-event simulation
[AD-A133649] 05 p0740 N84-14860
Asymptotic properties of extended Yule-Walker estimates of the AR parameters of an ARMA (autoregressive moving-average)
[AD-A134961] 08 p1221 N84-17970
Correlated errors in a functional relationship: Estimation of the color term in the Period Luminosity-Color (PLC) for Long Magellanic Clouds (LMC) Cepheids
09 p1411 N84-19228
Some signal processing methods based on covariance estimates of signal and noise
[FOA-C-30343-E1] 10 p1484 N84-19701
Meteorologically induced uncertainty in LRT modeling
[DE84-003444] 11 p1678 N84-20935
Local error estimating by doubling
[DE84-010107] 15 p2363 N84-25180
LGM-30B, stage 2 dissected motor test report
[AD-A140337] 16 p2460 N84-25765
Detection of errors in the functional adjustment model
16 p2505 N84-26074
Variance-covariance components estimation by the adjustment of heterogeneous repetition measurements
[SER-C-282] 16 p2547 N84-26346
An annotated bibliography covering generation and use of evaluated cross section uncertainty files
[BNL-NCS-51684] 16 p2566 N84-26485
Spectral moment estimation in MST radars
17 p2696 N84-27173
A note on the derivation of theoretical autocovariances for ARMA models
[AD-A140829] 17 p2760 N84-27527
Multivariate analysis and its applications
[AD-A140942] 18 p2925 N84-28549
Capacity of generalized mismatched Gaussian channels
[AD-A141399] 19 p3063 N84-29589
Uncertainty covariances in robotics applications
[DE84-013417] 22 p3605 N84-32843
On the estimation of the 1st-order autoregressive parameter
[AD-A144284] 24 p3950 N84-35014
Spatio-temporal spectral analysis by eigenstructure methods
[AD-A144361] 24 p3951 N84-35017

COVERINGS
Development or a solar cell coverglass adhesive for space application
[BMFT-FB-W-83-029] 08 p1181 N84-17695
Solar-array-materials passive LDEF experiment (A0171) 15 p2274 N84-24656
Installation restoration general environmental technology development. Task 3: Guidelines for in-place closure of dry lagoons. Volume 2: Evaluation of in-place closure technologies
[AD-A140655] 17 p2724 N84-27338
Rapid Test Bed Concentrator (TBC) alignment techniques 18 p2875 N84-28258
Role of trench caps in the shallow land burial of low level wastes
[DE84-011824] 20 p3298 N84-30944
Fire blocking systems for aircraft seat cushions
[NASA-CASE-ARC-11423-1] 23 p3691 N84-33394
Solar energy concentrator system
[AD-D011149] 23 p3785 N84-34004

COVES
U BAYS (TOPOGRAPHIC FEATURES)

COWELL METHOD
U NUMERICAL INTEGRATION

CRAB NEBULA
The Crab Nebula: A theoretical and observational study 04 p0617 N84-14074
Stellar Ultraviolet Rocket Research Program — faint object spectrograph
[NASA-CR-175361] 08 p1242 N84-18119
High resolution hard X-ray spectra of solar and cosmic sources
[NASA-CR-173561] 15 p2429 N84-25587

CRACK ARREST
The propagation and arrest of an edge crack in an elastic half-space under conditions of anti-plane shear: Analytical and numerical results
[AD-A137275] 10 p1517 N84-19930

Shear-lag analysis of notched laminates with interlaminar debonding
[NASA-CR-3798] 14 p2119 N84-23697
On some current problems in experimental fracture dynamics
[AD-P003102] 16 p2466 N84-25807
Crack branching, crack arrest and rapid tearing
[AD-P003112] 16 p2468 N84-25817
Modelling for fatigue crack growth prediction in Mirage IIIO frame 26
[ARL-STRUC-REPT-401] 24 p3912 N84-34772

CRACK CLOSURE
Simulation of closure: Effects on crack detection probability and stress distributions
[DE83-009309] 01 p0097 N84-10633
Three-dimensional measurements of fatigue crack closure
[NASA-CR-175366] 08 p1169 N84-17616
Three-dimensional measurements of fatigue crack closure
[NASA-CR-173679] 18 p2852 N84-28110
The use of novel processing procedures for improving the overall fatigue resistance of high strength aluminum alloys
[AD-A141107] 19 p2993 N84-28966
A review of crack closure
[AD-A142273] 19 p3036 N84-29261
Near-threshold fatigue crack propagation: A perspective on the role of crack closure
[DE84-009669] 20 p3180 N84-30202

CRACK FORMATION
U CRACK INITIATION

CRACK GEOMETRY
NT CRACK TIPS
Effect of crack curvature on stress intensity factors for ASTM standard compact tension specimens
[NASA-CR-166260] 02 p0231 N84-11513
The analysis of crack growth data with application to trip steel
[AD-A132021] 03 p0389 N84-12535
Plane stress crack-line fields for crack growth in an elastic perfectly-plastic material
[AD-A134868] 08 p1171 N84-17630
A theoretical analysis of the influence of crack dimensions and geometry on mass transport in corrosion fatigue cracks
[NPL-DMA(A)-69] 12 p1825 N84-21897
Crack layer theory
[NASA-CR-174634] 13 p2001 N84-22980
Longitudinally stiffened composite multi-layer cylindrical shells (and rings) under internal pressure
15 p2309 N84-24855
B-scan displays of ultrasonic time-of-flight diffraction tests of compact tension specimens
[AERE-R-11010] 18 p2854 N84-28126
Enhanced Fourier algorithms for ultrasonic crack characterization
[DE84-012544] 21 p3423 N84-31714

CRACK INITIATION
Fracture mechanics of subluminate cracks in composite laminates
01 p0035 N84-10218
Metal-induced embrittlement of high purity 4140 steel by indium or indium-tin eutectic alloy
02 p0192 N84-11250
Note on standardization of implant tests
[VTT-RR-189] 02 p0198 N84-11288
Creep fatigue of low-cobalt superalloys: Waspaloy, PM U 700 and wrought U 700
[NASA-CR-168260] 04 p0498 N84-13265
Evaluation of fabric interlayers
[PB83-253245] 05 p0664 N84-14363
Initiation, growth, and coalescence of small fatigue cracks
[AD-A139935] 05 p0692 N84-14545
Fracture behavior of unidirectional boron/aluminum composite laminates
[NASA-CR-3753] 06 p0797 N84-15196
Comparison of fracture-toughness measurements from ferritic-steel compact-tension and surface-flawed specimen
[DE84-000695] 06 p0804 N84-15240
Embrittlement of steels due to galvanizing or coating with zinc paint: An investigation of embrittlement in welding or heating operations — liquid metal embrittlement
[AERE-TR-4774] 06 p0805 N84-15244
Investigations on the reproducibility of the results of drop weight tests by the method of W. S. Pellini
[BLL-DRIC-T-6970-(3623.66)] 06 p0846 N84-15517
Propagation of crazing in viscoelastic media
[NASA-CR-173244] 07 p1015 N84-16583
A microstatistical model for carbide induced cleavage fracture — of steels
[VTT-RR-220] 07 p1017 N84-16599
Microstructural and mechanical aspects of fatigue crack initiation and growth in a 2048 aluminum alloy
08 p1130 N84-17347
Extended experimental and theoretical investigations to quantify ductile fracture behavior, using MnMoNi 55
[MPA-82-01] 09 p1334 N84-18709
Fatigue and fracture toughness in aluminum
[NLR-MP-82058-U] 10 p1463 N84-19556
Literature survey on oxidations and fatigue lives at elevated temperatures
[NASA-CR-174639] 11 p1633 N84-20674
Comparison of predicted versus experimentally-determined stresses for crack initiation of surface flaws in a 304 stainless steel and a ferritic steel
[DE84-005481] 11 p1634 N84-20680
Review of the effects of microstructure on fatigue in aluminum alloys
[NASA-TM-83626] 13 p1960 N84-22735
Crack layer theory
[NASA-CR-174634] 13 p2001 N84-22980
Corrosion and load transfer effects on fatigue of mechanically fastened joints. Fatigue of zero load transfer specimen
[AD-A139042] 13 p2001 N84-22985
Macroscopic appearance of vibratory fractures — metal fatigue 14 p2126 N84-23741
Thermally induced fractures 14 p2126 N84-23743
Corrosion damage with additional mechanical loading
14 p2126 N84-23745
Time dependent quasifracture nucleation and propagation 15 p2349 N84-25097
The effect of loading rate and temperature on fracture initiation toughness in a low strength steel
15 p2401 N84-25410
Milliwatt generator heat source
[DE84-006207] 15 p2407 N84-25447
Random fatigue of steels: Sequence effects during the crack initiation phase
[BMFT-FB-T-84-040] 16 p2466 N84-25804
A plate impact experiment for studying crack initiation at loading rates K(I) approximately 10(8) MPa m/s
[AD-P003103] 16 p2466 N84-25808
Circumferential cracks in cylindrical shells
16 p2501 N84-26050
An inductive process in automatic recording of crack propagation
[ISD-298] 16 p2502 N84-26056
Further thoughts on shot peening (and other compression inducing surface treatments) for fatigue enhancement
[BAE-KRS-N-GEN-275] 17 p2622 N84-26779
Fatigue crack growth in austenitic stainless steel --- cladding; PWR
[ND-R-802(S)] 18 p2813 N84-27856
The locus of environmental crack growth in bonded aluminium alloy joints
[AERE-R-11069] 18 p2816 N84-27880
B-scan displays of ultrasonic time-of-flight diffraction tests of compact tension specimens
[AERE-R-11010] 18 p2854 N84-28126
The use of novel processing procedures for improving the overall fatigue resistance of high strength aluminum alloys
[AD-A141107] 19 p2993 N84-28966
Mechanisms of microstructurally-influenced fatigue crack growth in dual-phase steels
[DE84-006491] 19 p2995 N84-28979
Fragmentation under impulsive stress loading
[DE84-006341] 19 p3037 N84-29263
Fracture initiation in glass-reinforced plastics under impact compression
[OUEL-1516/84] 19 p3037 N84-29265
Crack initiation model for stress corrosion cracking alpha-brass
[DE84-012837] 21 p3423 N84-31712
Weldability of steels: Study of cracking and methods of examination
[BLL-RISLEY-TRANS-4519-(9091.9)]
22 p3550 N84-32475
Crack tip field and fatigue crack growth in general yielding and low cycle fatigue
[NASA-CR-174686] 22 p3554 N84-32503
An evaluation of the Boeing wedge test for the assessment of CFRP surface pretreatment
[AD-A144050] 23 p3711 N84-33526
Engineering property comparisons of Powder Metallurgy (PM) alloy X7901-T7E69 and Ingot Metallurgy (IM) alloy forgings
[NLR-MEMO-SM-83-050-U] 23 p3720 N84-33583
Mechanical response of ceramics to creep loading
23 p3760 N84-33830
Evaluation of COD (Crack-Opening-Displacement) compliance determined crack growth rates
[AD-A144037] 23 p3761 N84-33838
Modern methods of studying initial stage of fatigue fracture in metals 24 p3871 N84-34531
Failure of aluminum alloy in the preplitting stage
24 p3874 N84-34549

CRACK PROPAGATION
Fatigue crack growth and low cycle fatigue of two nickel base superalloys
[NASA-CR-174534] 01 p0042 N84-10267
A total life prediction model for stress concentration sites
[NASA-CR-168225] 01 p0094 N84-10612
Effects of bonding temperatures on fatigue crack growth
[AD-A130396] 01 p0094 N84-10615
Semielliptical cracks along holes in plates and lugs
[AD-A130786] 01 p0096 N84-10622
Prediction of crack growth aqueous environments
[AD-A131485] 01 p0096 N84-10626
Environmental crack-growth-measurement techniques
[DE83-900734] 01 p0097 N84-10630
Blunt-crack band propagation in finite-element analysis for concrete structures
[DE83-010726] 01 p0097 N84-10632
Fracture behavior of unirradiated HT-9 and modified 9Cr-1Mo welds
[DE83-016021] 01 p0098 N84-10636
Statistical crack mechanics
[DE83-014124] 01 p0098 N84-10637
The effects of specimen size, specimen geometry and data analysis procedures on ductile crack growth resistance curves
[AERE-R-10906] 01 p0098 N84-10638
Metal-induced embrittlement of high purity 4140 steel by indium or indium-tin eutectic alloy
02 p0192 N84-11250
Fatigue-crack growth behavior in a nitrogen-strengthened high-manganese steel at cryogenic temperatures
[DE83-016619] 02 p0195 N84-11269
Applied J-integral in HY130 tensile panels and implications for fitness for service assessment
[PB83-240598] 02 p0198 N84-11290
Analysis of soldering-induced cracking of BaTiO3 ceramic capacitors
[DE83-013980] 02 p0200 N84-11304
A critical review of the short crack problem in fatigue
[AD-A131349] 02 p0231 N84-11516
Fatigue behavior of long and short cracks in wrought and powder aluminum alloys
[AD-A131324] 02 p0231 N84-11517
Fatigue-crack propagation in viscous environments
[DE83-011741] 02 p0232 N84-11520
Accelerated compatibility testing using corrosion fatigue techniques
[DE83-015104] 03 p0353 N84-12296
Life prediction under stress corrosion conditions below K sub ISCC
[DE83-018074] 03 p0355 N84-12307
Helium damage in austenitic stainless steels
[DE83-017494] 03 p0355 N84-12309
The Dugdale model for the compact specimen
[NASA-TM-85714] 03 p0388 N84-12529
The analysis of crack growth data with application to trip steel
[AD-A132021] 03 p0389 N84-12535
Electron-microscope observation of crack propagation and a dislocation model of fracture
[DE83-014623] 03 p0389 N84-12540
Single specimen J-integral testing
[DE83-016089] 03 p0390 N84-12543
Mechanics of fracture under high-rate stress loading
[DE83-013770] 03 p0390 N84-12544
Numerical analysis of stable crack growth in elastic-plastic materials in small scale and general yielding 03 p0391 N84-12549
Evaluation of the crack gage as an advanced individual aircraft tracking concept 03 p0391 N84-12551
Elastic-plastic fracture of cylindrical shells containing part-through circumferential cracks
03 p0391 N84-12553
Biaxial fatigue, a review of the literature
[FRP-82/17] 04 p0498 N84-13266
Modeling crack-growth processes in fusion-reactor materials
[DE84-000477] 04 p0502 N84-13291
Fracto-emission from polymers
[AD-A132462] 04 p0506 N84-13314
Detection of cracks on highway pavements
[PB83-238204] 04 p0516 N84-13389
Effects of crack closure on ultrasonic transmission
[DE83-018073] 04 p0546 N84-13599
The propagation and arrest of an edge crack in an elastic half-space under conditions of anti-plane shear: Analytical and numerical results 04 p0547 N84-13604
The effects of environment and dwell on high temperature fatigue crack growth of 2 1/4 Cr - 1 Mo steel
[AD-A132147] 04 p0549 N84-13617

Effects of a finite aperture on the inverse born approximation
[DE83-018086] 04 p0596 N84-13930
Bending fatigue of a particulate SiC/Al 6061 metal matrix composite
[AD-A134106] 05 p0653 N84-14293
Fatigue crack growth rates of high-magnesium aluminum-magnesium alloys as influenced by solution treatment time and alloy content
[AD-A132928] 05 p0655 N84-14305
Fatigue of niobium at elevated temperatures
[DE84-001373] 05 p0656 N84-14314
Carbide precipitation in nickel-base model alloys and its influence on ductility and fracture behavior at room temperature
[JUEL-1845] 05 p0657 N84-14319
Measurement of velocity and displacement of a transverestraint testing machine
[MRL-TN-473] 05 p0683 N84-14493
Initiation, growth, and coalescence of small fatigue cracks
[AD-A133935] 05 p0692 N84-14545
Fracture toughness of fiber reinforced concrete
[AD-A133809] 05 p0692 N84-14547
Strength theories of continuous and discontinuous fiber composites 06 p0797 N84-15195
Investigation of fatigue crack-growth resistance of aluminum alloys under spectrum loading
[AD-A133206] 06 p0806 N84-15251
Fatigue crack propagation in Al-alloy lugs under constant amplitude and maneuver spectrum loading
[TAE-497] 06 p0857 N84-15585
Miniature center-cracked-tension specimen for fatigue crack growth testing
[DE84-001470] 06 p0862 N84-15615
Brief note of the stress intensity factor of elliptical cracks
[PB83-216911] 06 p0862 N84-15618
Investigation of static and dynamic fracture of orthotropic media by photomechanics 06 p0863 N84-15625
Ferrous alloy metallurgy: Liquid-lithium corrosion and welding
[DE84-003011] 07 p0975 N84-16317
Fracture-mechanics behavior of neutron-irradiated alloy A-286
[DE84-001467] 07 p0975 N84-16320
Electrochemical kinetics in stress-corrosion cracks
[DE84-002855] 07 p0976 N84-16323
Application of kinetic fracture mechanics to life prediction for polymeric materials
[DE84-003002] 07 p0979 N84-16347
Technology Reports of the Kyushu University, vol. 56, no. 3, June 1983
[ISSN-0023-2718] 07 p0982 N84-16359
Fatigue damage of an annealed 0.45 percent C steel under fully-reversed tension-compression cycling 07 p0983 N84-16367
Fatigue process of hard steels 07 p0983 N84-16368
Disclinations in carbon-carbon composites
[AD-A135248] 08 p1122 N84-17295
Microstructural and mechanical aspects of fatigue crack initiation and growth in a 2048 aluminum alloy 08 p1130 N84-17347
An evaluation of overload retardation behavior and overload retardation models of Ti-6Al-4V sheet titanium alloy
[AD-A135548] 08 p1132 N84-17362
Crack propagation in polystyrene under fixed elongation
[AD-A134749] 08 p1138 N84-17399
Tie molecules in polyethylene
[PB84-101435] 08 p1139 N84-17405
Recommendations for future research on fracture mechanics life technology
[NASA-CR-170904] 08 p1169 N84-17615
A review of fracture mechanics life technology — linear elastic fracture mechanics
[NASA-CR-170903] 08 p1170 N84-17622
Use of small crack data to bring about and quantify improvements to aircraft structural integrity
[AD-A135012] 08 p1170 N84-17623
Fracture and contact problems for linearly viscoelastic material
[AD-A135111] 08 p1170 N84-17624
Plane stress crack-line fields for crack growth in an elastic perfectly-plastic material
[AD-A134868] 08 p1171 N84-17630
Subsidence monitoring for state of Arizona
[PB84-126960] 08 p1189 N84-17750
La Recherche Aerospatiale, bimonthly bulletin number 1983-2, 213/March-April
[ESA-TT-817] 08 p1226 N84-18013
The effect of periodic overloads on flight-by-flight fatigue crack growth rates
[AD-A136407] 09 p1255 N84-18192
The high temperature viscoplastic fatigue behavior of IN-100 using the Bodner-Partom flow law
[AD-A135867] 09 p1282 N84-18375
Effect of the overload ratio on fatigue growth behavior in Ti-6Al-4V
[AD-A136027] 09 p1283 N84-18381
Fatigue crack propagation in Ti-Mn alloys: The role of the Bauschinger effect
[AD-A136036] 09 p1283 N84-18383
Fatigue life analysis and tensile overload effects with high strength steel notched specimens
[AD-A136065] 09 p1284 N84-18384
Evaluation of stainless steel pipe cracking: Causes and fixes
[DE84-003459] 09 p1285 N84-18391
Development of fatigue and crack propagation design and analysis methodology in a corrosive environment for typical mechanically-fastened joints. Volume 1: Phase I documentation
[AD-A136414] 09 p1331 N84-18691
Development of fatigue and crack propagation design and analysis methodology in a corrosive environment for typical mechanically-fastened joints. Volume 2: State-of-the-art assessment
[AD-A136415] 09 p1331 N84-18692
Behavior of pressurized cylinders with multiple internal cracks
[AD-A136104] 09 p1334 N84-18707
Extended experimental and theoretical investigations to quantify ductile fracture behavior, using MnMoNi 55
[MPA-82-01] 09 p1334 N84-18709
New analytical methods for the prediction of fatigue crack growth under realistic loading — aircraft structures
[NLR-MP-82055-U] 09 p1335 N84-18713
Evaluation of the crack growth gage concept as an individual aircraft tracking device, volume 1
[AD-A136932] 10 p1428 N84-19340
Evaluation of the crack growth gage concept as an individual aircraft tracking device, volume 2
[AD-A136933] 10 p1428 N84-19341
Solid electrolyte degradation: Problems and solutions
[DE84-002916] 10 p1457 N84-19514
Crack paths and hydrogen-assisted crack growth response in AISI 4340 steel
[AD-A137388] 10 p1459 N84-19528
Effects of fatigue on the G.P. zones in Al-Zn alloys
[AD-A137518] 10 p1459 N84-19530
Evaluation of fatigue-creep crack growth in an engine alloy
[AD-A136956] 10 p1460 N84-19536
Magneto-mechanical effects in 304 stainless steels
[DE84-004343] 10 p1462 N84-19546
The study and modeling of high temperature fatigue crack propagation in austenitic stainless steel
[DE84-005391] 10 p1462 N84-19552
Effect of specimen geometry on stable crack growth by nonlinear material behavior
[GKSS-83-E-38] 10 p1463 N84-19554
Fatigue and fracture toughness in aluminum
[NLR-MP-82058-U] 10 p1463 N84-19556
Fatigue crack growth in aluminum alloy sheet material under constant amplitude and simplified flight simulation loading
[VTH-LR-381] 10 p1464 N84-19561
Stress corrosion of ceramic materials
[AD-A136729] 10 p1467 N84-19581
The propagation and arrest of an edge crack in an elastic half-space under conditions of anti-plane shear: Analytical and numerical results
[AD-A137275] 10 p1517 N84-19930
Transition of corner cracks at holes into through-the-thickness cracks
[AD-A136922] 10 p1517 N84-19933
Comparison between empirical and calculated stress intensity factors of hole edge cracks
[VTH-LR-376] 10 p1518 N84-19940
Role of microstucture in hydrogen assisted cracking 11 p1631 N84-20667
Comparison of predicted versus experimentally-determined stresses for crack initiation of surface flaws in a 304 stainless steel and a ferritic steel
[DE84-005481] 11 p1634 N84-20680
Intergranular crack propagation rates in sensitized Type 304 stainless steel in an oxygenated water environment
[DE84-005311] 11 p1635 N84-20688
Fatigue resistance and microstructure of experimental dual phase Fe/2Si/0.1C steel
[DE84-004314] 11 p1635 N84-20692
Study of the effects of metallurgical factors on the growth of fatigue microcracks
[AD-A137954] 11 p1669 N84-20888
Microstructure of aluminum alloy in early stages of spalling 12 p1783 N84-21634
Edge crack growth of thermally aged graphite/polyimide composites
[NASA-TM-85763] 12 p1789 N84-21667
Modelling of deformation and fracture in high-temperature structural materials
[DE84-006452] 12 p1798 N84-21731
Plastic deformations near a rapidly propagating crack tip
[AD-A138273] 12 p1826 N84-21907
On the limiting electrode potential in cavities and its role in deciding between SCC (Stress Corrosion Cracking) and HC (Hydrogen Cracking) in metals
[AD-A138585] 13 p1955 N84-22713
Review of the effects of microstructure on fatigue in aluminum alloys
[NASA-TM-83626] 13 p1960 N84-22735
The fatigue of powder metallurgy alloys
[AD-A138714] 13 p1960 N84-22738
High temperature failure mechanisms in ceramic polycrystals
[DE84-006641] 13 p1965 N84-22764
Ultrasonic methods to study shadow boundaries of diffracting cracks. Ultrasonic caustics in NDE (Non-Destructive Evaluation)
[AD-A138839] 13 p1999 N84-22970
Prediction of fatigue crack-growth patterns and lives in three-dimensional cracked bodies
[NASA-TM-85787] 13 p2000 N84-22979
Crack layer theory
[NASA-CR-174834] 13 p2001 N84-22980
Corrosion and load transfer effects on fatigue of mechanically fastened joints. Fatigue of zero load transfer specimen
[AD-A139042] 13 p2001 N84-22985
Fracture toughness processes
[DE84-007244] 13 p2002 N84-22989
Fracture mechanics in the analysis of damage — crack propagation 14 p2126 N84-23749
Fracture temperature and flaw growth in nitronic 40 at cryogenic temperatures
[NASA-TP-2312] 14 p2127 N84-23750
A detailed comparison of hydrogen and mercury embrittlement in Monel 400
[AD-A139119] 14 p2127 N84-23753
A study of fatigue crack propagation in powder metallurgy hot isotatically pressed nickel-base alloy
[AD-A139290] 14 p2127 N84-23754
Influence of the viscous environments on fatigue crack propagation in a lower strength steel
[DE84-008247] 14 p2128 N84-23761
Future directions of research in adhesion and friction. Status of understanding 14 p2153 N84-23896
The conjoint action of high and low cycle fatigue
[AD-A139205] 14 p2158 N84-23927
Condition evaluation of Supersonic Naval Ordnance Research Track (SNORT)
[AD-A140036] 15 p2265 N84-24599
Delamination growth in notched graphite/epoxy laminates under compression fatigue loading
[FFA-TN-1983-57] 15 p2284 N84-24713
Effect of preferred orientation on crack growth properties of Ti-6Al-4V alloys, part 2
[BR89101-PT-2] 15 p2296 N84-24780
Effect of preferred orientation on crack growth properties of Ti-6Al-4V alloys, part 1
[BR89100-PT-1] 15 p2299 N84-24802
A united fracture kinetics representation of the three regions of stress corrosion cracking 15 p2307 N84-24842
Surface fatigue characteristics of transmission gears 15 p2307 N84-24843
Fatigue damage and crack growth in random short-fiber reinforced composites 15 p2308 N84-24847
Observations on the fracture of fiberous composites 15 p2311 N84-24865
An integral optical method for determining stress intensity factors 15 p2311 N84-24866
Crack-growth resistance of laminated hybrid composites 15 p2311 N84-24868
Stability of flow processes for dissipative solids with internal imperfections
[ISSN-0208-5658] 15 p2331 N84-24998
Time dependent quasifracture nucleation and propagation 15 p2349 N84-25097
Review of the application of fracture mechanics: Possibilities and actual limits
[GKSS-83-E-63] 15 p2349 N84-25098
Influence of soft inclusions on the strength of wrought materials
[NASA-CR-173610] 16 p2484 N84-25791
Tensile fracture of ductile materials
[NASA-CR-173607] 16 p2484 N84-25792
On some current problems in experimental fracture dynamics
[AD-P003102] 16 p2486 N84-25807
Applying molecular dynamics to fracture
[AD-P003104] 16 p2487 N84-25809
Short pulse fracture mechanics
[AD-P003105] 16 p2487 N84-25810

Dynamic crack growth in polymers
[AD-P003106] 16 p2467 N84-25811
Dynamic crack growth criteria in structural metals
[AD-P003107] 16 p2467 N84-25812
Processes controlling the dynamic fracture of brittle solids
[AD-P003108] 16 p2467 N84-25813
Some theoretical results on the dependence of dynamic stress intensity factor on crack tip speed
[AD-P003109] 16 p2467 N84-25814
On crack paths
[AD-P003110] 16 p2468 N84-25815
Path-independent integrals in dynamic fracture mechanics
[AD-P003111] 16 p2468 N84-25816
Crack branching, crack arrest and rapid tearing
[AD-P003112] 16 p2468 N84-25817
Dynamic kinking and bifurcation of cracks in plane strain
[AD-P003113] 16 p2468 N84-25818
Dynamic, steady-state crack propagation in linear isotropic viscoelastic material
[AD-P003114] 16 p2468 N84-25819
Viscoelastic effect on dynamic crack propagation in Homalite 100
[AD-P003115] 16 p2468 N84-25820
Some thoughts on the subject of dynamic elastic-plastic analyses of rapid crack propagation and crack arrest
[AD-P003116] 16 p2469 N84-25821
Fatigue crack growth rate data for aluminum alloy 6061-t651 plate
[AD-A140325] 16 p2469 N84-25824
A dynamic fracture assessment of impact damage in structural ceramics 16 p2469 N84-25826
Circumferential cracks in cylindrical shells
16 p2501 N84-26050
An inductive process in automatic recording of crack propagation
[ISD-298] 16 p2502 N84-26056
Study of the influence of metallurgical factors on fatigue and fracture of aerospace structural materials
[AD-A140659] 17 p2623 N84-26789
Initiation and propagation of shear bands in antiplane shear deformation
[AD-A140741] 17 p2624 N84-26794
Prediction of ductile crack growth in the austenitic steel WN 1.4948 at ambient and elevated temperature
[REPT-5011202-81-2] 17 p2625 N84-26799
An integrated boundary element analysis system with interactive computer graphics for 3-dimensional linear-elastic fracture mechanics
17 p2676 N84-27048
Three-dimensional non-self-similar crack growth in elastic-plastic materials 17 p2678 N84-27055
Fatigue considerations in view of measured load spectra
[AD-A140221] 17 p2679 N84-27067
Statistics of crack growth in engine materials. Volume 2: Spectrum loading and advanced techniques
[AD-A140920] 17 p2680 N84-27072
Generation of marker lines by means of marker loads — in flight fatigue tests 17 p2680 N84-27074
A 3-dimensional finite element analysis of delamination growth in composite laminates. Part 1: The energy methods and case-study problems
[AD-A141248] 18 p2810 N84-27838
Nitramine propellant crack tip ignition and crack propagation of a burning sample under rapid pressurization
[AD-A141246] 18 p2811 N84-27848
Experimental and theoretical studies of creep crack growth
[AD-A141193] 18 p2814 N84-27862
Metallographic examinations of type 304 stainless steel (heat 9T2796) tested in high-temperature uniaxial and multiaxial experiments
[DE84-010637] 18 p2814 N84-27866
Material characterization by strain rate controlled low cycle fatigue tests and by crack propagation velocity: Summary of test number M3 430300
[IMI-679] 18 p2816 N84-27878
The locus of environmental crack growth in bonded aluminium alloy joints
[AERE-R-11099] 18 p2816 N84-27880
The role of chemical bonding in adhesion
[AD-A140937] 18 p2818 N84-27891
The effect of section thickness on the fatigue performance of simple welded joints — offshore structures
[ND-R-941(S)] 18 p2852 N84-28107
The dynamic steady-state propagation of an anti-plane shear crack in a general linearly viscoelastic layer
[AD-A140980] 18 p2853 N84-28115
B-scan displays of ultrasonic time-of-flight diffraction tests of compact tension specimens
[AERE-R-11010] 18 p2854 N84-28126
The use of novel processing procedures for improving the overall fatigue resistance of high strength aluminum alloys
[AD-A141107] 19 p2993 N84-28966
Failure by creep cracking and creep fatigue interaction in nickel base superalloys
[AD-A141112] 19 p2993 N84-28967
Mechanisms of microstructurally-influenced fatigue crack growth in dual-phase steels
[DE84-008491] 19 p2995 N84-28979
Mode 2 fatigue crack growth specimen development
[NASA-TM-83722] 19 p3034 N84-29248
The effect of thickness on fatigue crack propagation in 7475-T731 aluminum alloy sheet
[NASA-CR-172367] 19 p3035 N84-29251
Elastic-plastic fracture toughness testing methods
[AD-A142033] 19 p3036 N84-29259
A review of crack closure
[AD-A142273] 19 p3036 N84-29261
Determination of failure characteristics of materials and structures
[AD-A142310] 19 p3037 N84-29262
Fragmentation under impulsive stress loading
[DE84-006341] 19 p3037 N84-29263
Fatigue behavior of long and short cracks in wrought and powder aluminum alloys
[AD-A142609] 20 p3153 N84-30024
Intergranular failures of Alloy 600 in high temperature caustic environments
[DE84-010890] 20 p3155 N84-30032
Aeronautical Materials (selected articles)
[AD-A139952] 20 p3159 N84-30063
Influence of temperature on the Delta K sub th and da/dN of LY-12CS aluminum alloy 20 p3160 N84-30067
Preliminary investigation of fatigue crack propagation of 30CrMnSiA steel in salt spray corrosion conditions
20 p3160 N84-30068
Study of the fatigue crack propagation characteristics of YB-3 and YB-4 aeronautical organic glass
20 p3160 N84-30069
The effects of non-metallic inclusions in steel on fatigue properties 20 p3160 N84-30070
Characteristics of initial period fatigue crack propagation of metals and its affecting factors
20 p3160 N84-30071
Near-threshold fatigue crack propagation: A perspective on the role of crack closure
[DE84-009869] 20 p3180 N84-30202
Calculation of crack behaviour on exposure to thermal shock
[BLL-RISLEY-TR-4941-(9091.9F)]
20 p3200 N84-30326
Methods for analysis of cracks in three-dimensional solids
[NASA-TM-86266] 20 p3201 N84-30330
Effects of variations in coldworking repair procedures on flaw growth and structural life
[AD-A141966] 20 p3202 N84-30336
Criterion for quasibrittle crack growth
[DE84-010052] 20 p3203 N84-30349
Space nuclear safety program
[DE84-011015] 20 p3298 N84-30943
Electrolytic degradation of lithia-stabilized polycrystalline beta-alumina
[DE84-008668] 20 p3311 N84-31027
Fracto-emission from graphite/epoxy composites
[NASA-CR-173845] 21 p3357 N84-31291
Environmentally-controlled crack growth rate of type 304 stainless steel in high temperature sulfate solutions
21 p3364 N84-31342
Failure analysis of plasma-sprayed thermal barrier coatings
[NASA-TM-83777] 21 p3365 N84-31347
Evaluation of the effect of crack closure on fatigue crack growth of simulated short cracks
[NASA-TM-83778] 21 p3365 N84-31348
The effects of deformation mode and microstructure fracture-related properties of Ti alloys
[AD-A142891] 21 p3366 N84-31353
Crack kinetics of the nickel-hydrogen system
21 p3416 N84-31665
Inelastic and dynamic fracture and stress analyses
21 p3421 N84-31697
Response of a plaster-wood room subjected to simulated sonic booms
[UTIAS-276] 21 p3421 N84-31701
Fatigue crack growth behavior of an oxide dispersion strengthened MA956 alloy
[AD-A142059] 21 p3421 N84-31702
Effect of inertia on finite near-tip deformation for fast Mode-3 crack growth
[AD-A142947] 21 p3422 N84-31706
Interdependence of equivalent steady stress, crack growth and failure on sequence and amplitude of irregular loading
[AD-A142951] 21 p3422 N84-31707
Crack initiation model for stress corrosion cracking alpha-brass
[DE84-012837] 21 p3423 N84-31712
Weldability of steels: Study of cracking and methods of examination
[BLL-RISLEY-TRANS-4519-(9091.9)]
22 p3550 N84-32475
Theoretical research program to predict the properties of molecules and clusters containing transition metal atoms
[NASA-CR-173924] 22 p3554 N84-32502
Crack tip field and fatigue crack growth in general yielding and low cycle fatigue
[NASA-CR-174686] 22 p3554 N84-32503
Modeling of concrete response at high temperature
[DE84-009587] 22 p3564 N84-32570
On the mechanics of fatigue crack growth due to contact loading 22 p3608 N84-32859
Retardation analytical model to extend service life
[NASA-CR-173891] 22 p3608 N84-32862
Crack problems for bonded nonhomogeneous materials under antiplane shear loading
[NASA-CR-173892] 22 p3609 N84-32863
Opening of an interface flaw in a layered elastic half-plane under compressive loading
[NASA-TM-86282] 22 p3611 N84-32877
Analysis of dynamic mixed-mode crack tip stress patterns
[AD-A143329] 22 p3611 N84-32880
Thermal shock: High temperature high energy rate testing
[DE84-014147] 22 p3612 N84-32886
Systematic jointing in the cardium sandstone along the Bow River, Alberta, Canada 22 p3620 N84-32937
Compression failure mechanisms in unidirectional composites
[NASA-TM-85834] 23 p3711 N84-33523
Evaluation of the effects of stress state and interfacial properties on the behavior of advanced metal matrix composites
[AD-A143911] 23 p3711 N84-33525
An evaluation of the Boeing wedge test for the assessment of CFRP surface pretreatment
[AD-A144050] 23 p3711 N84-33526
The effect of internal hydrogen on near-threshold fatigue crack propagation in iron base systems
23 p3717 N84-33560
Fracture toughness of irradiated HT-9
[DE84-013935] 23 p3719 N84-33578
Mechanical response of ceramics to creep loading
23 p3760 N84-33830
Mechanics of microcrack toughening in ceramics
23 p3760 N84-33831
Evaluation of COD (Crack-Opening-Displacement) compliance determined crack growth rates
[AD-A144037] 23 p3761 N84-33838
Mechanistic methodology for airport pavement design with engineering fabrics. Volume 1: Theoretical and experimental base
[DOT/FAA/PM-84-9.1] 24 p3857 N84-34450
Fatigue induced cracking in aluminum LN-2 shroud of 39 foot vacuum chamber 24 p3862 N84-34476
Fatigue crack growth in vacuum and in gaseous media
24 p3870 N84-34529
Dependence of rate of growth in aqueous corrosive medium on electrochemical conditions at tip of crack
24 p3871 N84-34530
Failure of aluminum alloy in the presplitting stage
24 p3874 N84-34549
Relationship of structure with cyclic crack resistance of Alpha-titanium alloys 24 p3875 N84-34557
Prediction of crack extension direction in unidirectional composites
[VPI-E-84-27] 24 p3878 N84-34572
The use of adhesive-bonded rivets to lessen the reductions in fatigue life caused by rivet holes
[ARL-STRUC-REPT-399] 24 p3887 N84-34617
Modelling for fatigue crack growth prediction in Mirage IIIO frame 26
[ARL-STRUC-REPT-401] 24 p3912 N84-34772
On stress analysis of a crack-layer
[NASA-CR-174774] 24 p3912 N84-34774
The stress analysis of a rotating cylinder experiment to determine crack growth in thick section steel
[DE84-701733] 24 p3913 N84-34778
Analysis of fatigue crack propagation of structural steel members subjected to variable amplitude fatigue stress
24 p3957 N84-35055

CRACK TIPS
Prediction of crack growth aqueous environments
[AD-A131485] 01 p0096 N84-10626
Investigation of static and dynamic fracture of orthotropic media by photomechanics 06 p0863 N84-15625

The propagation and arrest of an edge crack in an elastic half-space under conditions of anti-plane shear: Analytical and numerical results
[AD-A137275] 10 p1517 N84-19930
Plastic deformations near a rapidly propagating crack tip
[AD-A138273] 12 p1826 N84-21907
Dislocation shielding model of fracture toughness
[DE84-007539] 15 p2351 N84-25111
Some theoretical results on the dependence of dynamic stress intensity factor on crack tip speed
[AD-P003109] 16 p2467 N84-25814
Stress intensity factors for slightly kinked, partially closed cracks in compression
[AD-A140550] 16 p2503 N84-26064
Numerical analysis of time-dependent inelastic fracture 17 p2677 N84-27054
Effect of inertia on finite near-tip deformation for fast Mode-3 crack growth
[AD-A142947] 21 p3422 N84-31706
Crack tip field and fatigue crack growth in general yielding and low cycle fatigue
[NASA-CR-174686] 22 p3554 N84-32503
Analysis of dynamic mixed-mode crack tip stress patterns
[AD-A143329] 22 p3611 N84-32880
A characterization of the fracture behavior of thick, notched, laminated graphite-epoxy composites 23 p3710 N84-33519
Mechanics of microcrack toughening in ceramics 23 p3760 N84-33831
Dependence of rate of growth in aqueous corrosive medium on electrochemical conditions at tip of crack 24 p3871 N84-34530

CRACKING (CHEMICAL ENGINEERING)
NT PYROLYSIS
High temperature catalytically assisted combustion
[AD-A133864] 05 p0648 N84-14259

CRACKING (FRACTURING)
NT STRESS CORROSION CRACKING
The mechanics of bridging cracks
[BLL-T6144/LRST652/83(9022.048)] 01 p0057 N84-10369
Heat checking in the contact zone of a face seal: A three-dimensional model of a single moving asperity
[AD-A130756] 01 p0079 N84-10513
Statistics of crack growth of a superalloy under sustained load
[AD-A130395] 01 p0095 N84-10616
Advanced experimental techniques in crack tip analysis
[AD-A130719] 01 p0095 N84-10618
Solvent stress-cracking study for a matrix material
[DE83-014075] 02 p0188 N84-11224
Grain-boundary cavitation and weld-underbead cracking in DOP-26 iridium alloy
[DE83-015406] 03 p0389 N84-12539
The mechanics of delamination in fiber-reinforced composite materials. Part 1: Stress singularities and solution structure
[NASA-CR-172269] 04 p0491 N84-13221
The mechanics of delamination in fiber-reinforced composite materials. Part 2: Delamination behavior and fracture mechanics parameters
[NASA-CR-172270] 04 p0491 N84-13222
Fiber composite materials research in the UK: Assessment report
[AD-A132386] 04 p0492 N84-13226
Fracto-emission from polymers
[AD-A132462] 04 p0506 N84-13314
Penetrant and magnetic-particle inspection for material integrity
[DE83-017830] 04 p0546 N84-13600
Detection of closed internal fatigue cracks
[DE83-017686] 04 p0549 N84-13620
Degradation of fracture toughness in steels due to prior strain: A predictive model
[AD-A132600] 05 p0654 N84-14300
Complete sample analysis by gas chromatography
[BLL-T6213/BG/LRS/LRST671/83] 06 p0800 N84-15212
A three-dimensional photoelastic investigation of stresses and cracks formed in concrete around deformed reinforcing bars 06 p0862 N84-15621
Energy absorption by polymer crazing
[NASA-CR-173275] 07 p0978 N84-16335
Crack healing in polymers
[AD-A134488] 07 p0979 N84-16343
On the implications for LEFM (Linear elastic fracture Mechanics) of the 3-dimensional aspects in some crack/surface intersection problems
[AD-A134227] 07 p1016 N84-16592
A cylindrical shell with a stress-free end which contains an axial part-through or through crack
[NASA-CR-173290] 08 p1169 N84-17617
Transient thermal stresses in a reinforced hollow disk or cylinder containing a radial crack
[NASA-CR-173292] 08 p1170 N84-17619
Fracture behavior under impact
[AD-A136056] 09 p1333 N84-18702
Fracture behavior under impact
[AD-A136057] 09 p1333 N84-18703
Behavior of pressurized cylinders with multiple internal cracks
[AD-A136104] 09 p1334 N84-18707
Quasi-cleavage and martensite habit plane
[AD-A137378] 10 p1459 N84-19527
Crack paths and hydrogen-assisted crack growth response in AISI 4340 steel
[AD-A137388] 10 p1459 N84-19528
Sustained load crack growth in Inconel 718 under non-isothermal conditions
[AD-A136925] 10 p1460 N84-19535
Development of criteria for the use of asphalt-rubber as a Stress-Absorbing Membrane Interlayer (SAMI)
[AD-A137412] 10 p1471 N84-19608
Preventative measures to limit stress corrosion cracking in prestressed concrete
[AD-A136665] 10 p1471 N84-19609
On the limiting electrode potential in cavities and its role in deciding between SCC (Stress Corrosion Cracking) and HC (Hydrogen Cracking) in metals
[AD-A138585] 13 p1955 N84-22713
Crack layer theory
[NASA-CR-174634] 13 p2001 N84-22980
Fracture mechanics of sublaminate cracks in composite laminates
[AD-A139357] 14 p2120 N84-23706
Stress-intensity factor equations for cracks in three-dimensional finite bodies subjected to tension and bending loads
[NASA-TM-85793] 14 p2157 N84-23925
Effects of curing stress on intralaminar cracking in graphite-epoxy laminates 15 p2306 N84-24846
Cracking threshold on steel used in aeronautical construction: Influence of the environment
[SNIAS-832-551-101] 16 p2465 N84-25797
Investigations made to improve the cold-cracking and the fracture behavior of welded joints in high-strength structural steels
[BMFT-FB-T-84-034] 16 p2466 N84-25803
Dynamic fracture behavior of structural materials
[AD-A140381] 16 p2502 N84-26060
Service-life induced failure of bird impact resistant windshields
[AD-P003195] 17 p2591 N84-26608
Statistics of crack growth in engine materials. Volume 2: Spectrum loading and advanced techniques
[AD-A140920] 17 p2680 N84-27072
Nitramine propellant crack tip ignition and crack propagation of a burning sample under rapid pressurization
[AD-A141246] 18 p2811 N84-27848
Identification of strain-softening properties and computational predictions of localized fracture
[AD-A141866] 19 p3036 N84-29258
Elastic-plastic fracture toughness testing methods
[AD-A142033] 19 p3036 N84-29259
A review of crack closure
[AD-A142273] 19 p3036 N84-29261
Determination of failure characteristics of materials and structures
[AD-A142310] 19 p3037 N84-29262
J-integral tearing instability analysis for 8-inch diameter ASTM A106 steel pipe
[AD-A142589] 20 p3153 N84-30023
The effect of injection molding processing parameters on the environmental stress cracking resistance of polycarbonate moldings
[MRL-R-924] 20 p3201 N84-30332
Anodic processes and the kinetics of stress-corrosion cracking or corrosion fatigue
[DE84-012911] 21 p3368 N84-31367
State of techniques for crackling varnishes and problems posed by their application
[CETIM-1.5C.23.1] 21 p3424 N84-31723
Materials for Advanced Turbine Engines (MATE): Project 3: Design, fabrication and evaluation of an oxide dispersion strengthened sheet alloy combustor liner
[NASA-CR-174891] 22 p3554 N84-32504
Mechanistic methodology for airport pavement design with engineering fabrics. Volume 1: Theoretical and experimental base
[DOT/FAA/PM-84-9.1] 24 p3857 N84-34450
Fracto-emission from polymers
[AD-A144149] 24 p3888 N84-34622

CRACKS
NT CRACK TIPS
NT MICROCRACKS
NT SURFACE CRACKS
Project scattering of elastic waves
[DE83-013574] 01 p0068 N84-10444
Singularities at the tip of a crack normal to the interface of an anisotropic layered composite
[AD-A131504] 01 p0096 N84-10625
Wide range weight functions for the strip with a single edge crack
[NASA-TM-83478] 02 p0231 N84-11512
A critical review of the short crack problem in fatigue
[AD-A131349] 02 p0231 N84-11516
Response of cracks in structural materials to short pulse loads
[AD-A131565] 02 p0231 N84-11519
Interaction of a dislocation with a crack
[AD-A131912] 03 p0389 N84-12536
Inference of fatigue-crack closure stresses from ultrasonic-transmission measurements
[DE83-017684] 03 p0390 N84-12547
Reverse combustion along constant geometry fissures in heterogeneous fuels 04 p0492 N84-13232
Detection of cracks on highway pavements
[PB83-238204] 04 p0516 N84-13389
Petrographic examination of Bell Canyon Tests (BCT) 1-FF field grouts over a 3-year period
[DE83-018226] 04 p0555 N84-13654
Stiffness changes in unidirectional composites caused by crack systems
[CA-8311] 06 p0798 N84-15198
Use of shear lag for composite microstress analysis - rectangular array
[AD-A134165] 07 p0967 N84-16267
Stress intensity factors in lugs (through-thickness cracks)
[ESDU-81029] 07 p1014 N84-16579
On the implications for LEFM (Linear elastic fracture Mechanics) of the 3-dimensional aspects in some crack/surface intersection problems
[AD-A134227] 07 p1016 N84-16592
Three-dimensional measurements of fatigue crack closure
[NASA-CR-175366] 08 p1169 N84-17618
Transient thermal stresses in a reinforced hollow disk or cylinder containing a radial crack
[NASA-CR-173292] 08 p1170 N84-17619
A functional stress intensity approach to multiply cracked, partially autofrettaged cylinders
[AD-A135345] 08 p1170 N84-17625
Frictional hot-spots and statistical crack mechanics
[DE84-003784] 09 p1290 N84-18423
Acoustic leak detection and ultrasonic crack detection
[DE84-004037] 09 p1328 N84-18670
New method of analyzing vibration of cracked cylindrical shells
[AD-A136637] 09 p1331 N84-18693
Sustained load crack growth in Inconel 718 under non-isothermal conditions
[AD-A136925] 10 p1460 N84-19535
Detection of electromagnetic radiation leakage through small structural openings
[AD-A137407] 10 p1479 N84-19667
The crack-inclusion interaction problem
[NASA-CR-172308] 10 p1516 N84-19928
Detection and sizing of underbead cracks using ultrasonic nondestructive examination
[DE83-012205] 11 p1666 N84-20869
Stress intensity factors in a reinforced thick-walled cylinder
[NASA-CR-172307] 11 p1668 N84-20879
Implementation of Nisitani's body force method for the solution of notch problems
[AD-A137690] 11 p1668 N84-20881
Fracture toughness processes
[DE84-007244] 13 p2002 N84-22969
Systematic evaluation of technical causes of damage — fracture mechanics
[ISBN-3-88355-070-1] 14 p2125 N84-23734
Damage to welding seams — cracks 14 p2126 N84-23748
Prevention of stress-corrosion cracking in nuclear waste storage tanks
[DE84-001410] 14 p2126 N84-23758
Prediction of long term crevice corrosion and hydrogen embrittlement behavior of ASTM grade-12 titanium --- containers for radioactive waste disposal
[DE84-002575] 14 p2126 N84-23759
Stress intensity factors for slightly kinked, partially closed cracks in compression
[AD-A140550] 16 p2503 N84-26064
Mechanical properties of metal hydrides
[AD-A141496] 19 p2994 N84-28970
Near-threshold fatigue crack propagation: A perspective on the role of crack closure
[DE84-009669] 20 p3180 N84-30202
Flaw detection reliability criteria. Volume 1: Methods and results
[AD-A142001] 20 p3199 N84-30320

Solving crack problems with analytical techniques and the finite elements method
[BLL-RISLEY-TR-4940-(9091.9F)] 20 p3200 N84-30325
Tensile crack exposure tests. Statistical analysis of the long-term durability of series B beams
[AD-A141955] 20 p3201 N84-30335
A new optical technique for rapid determination of creep and fatigue thresholds at high temperature
[AD-A142675] 20 p3202 N84-30341
Improvements in mechanical properties in SiC by the addition of TiC particles
[DE84-012352] 21 p3358 N84-31297
Opening of an interface flaw in a layered elastic half-plane under compressive loading
[NASA-TM-86262] 22 p3611 N84-32877
Portable electromagnetic flaw detector for metal products 23 p3706 N84-33493
C.A.T. scanner for detecting flaws in metals 23 p3706 N84-33494
An evaluation of the Boeing wedge test for the assessment of CFRP surface pretreatment
[AD-A144050] 23 p3711 N84-33526
Engineering and design properties of thallium-doped sodium iodide and selected properties of sodium-doped cesium iodide
[NASA-RP-1131] 23 p3726 N84-33613
Three-dimensional finite element analysis of straight and curved through cracks in a plate 23 p3759 N84-33826
Evaluation of COD (Crack-Opening-Displacement) compliance determined crack growth rates
[AD-A144037] 23 p3761 N84-33838
On stress analysis of a crack-layer
[NASA-CR-174774] 24 p3912 N84-34774

CRAFT
U VEHICLES

CRANES
EPA (Environmental Protection Agency) model development for stable plume impingement on elevated terrain obstacles
[PB84-130491] 10 p1533 N84-20038
Time optimal control of a crane
[EUT-83-E-135] 10 p1568 N84-20271

CRANKED WINGS
U SWEPT WINGS

CRANKS
U ECCENTRICS

CRASH INJURIES
A high-performance analog-to-digital conversion subsystem suitable for the study of evoked potentials, with design considerations for the eclipse $140 (trademark) computer
[AD-A130353] 01 p0071 N84-10461
Effects of impact acceleration on somatosensory evoked potentials
[AD-A130280] 01 p0113 N84-10734
Safety report: General aviation crashworthiness project, phase 1
[PB83-917004] 03 p0328 N84-12142
Aircraft accident report: Sierra Pacific Airlines, DHC-6-300, N361V, Hailey, Idaho, February 15, 1983
[PB84-910403] 12 p1767 N84-21525
Medical aspects of helicopter safety and crashworthiness 16 p2537 N84-26287

CRASH LANDING
NT DITCHING (LANDING)
Computer modeling of aircraft cabin fires
[PB84-101153] 08 p1101 N84-17162
Aircraft accident report: Sierra Pacific Airlines, DHC-6-300, N361V, Hailey, Idaho, February 15, 1983
[PB84-910403] 12 p1767 N84-21525
Safety recommendations A-84-14 and -15 16 p2444 N84-25678
Study on transport airplane unplanned water contact
[AD-A142092] 19 p2961 N84-28764

CRASHES
NT CRASH LANDING
NT DITCHING (LANDING)
Staged collision and damage data report for accident reconstruction of fourteen (14) test vehicles (1980 - 1982 model year), volume 1
[PB83-228502] 01 p0092 N84-10598
Statistical evaluation of the effectiveness of the 1976 version of the FMVSS 301: Fuel system integrity
[PB83-205211] 01 p0164 N84-11075
Vertical drop test of a transport fuselage center section including the wheel wells
[NASA-TM-85706] 03 p0388 N84-12531
Error in CALSPAN 3-dimensional crash vehicle simulation computer program for the case of massless segments
[AD-A141783] 19 p3078 N84-29526
A research study of the assessment of escape impairment by irritant combustion gases in postcrash aircraft fires
[FAA-CT-84-16] 22 p3533 N84-32366

CRASHWORTHINESS
Crashworthiness: An illustrated commentary on occupant survival in general aviation accidents
[AD-A130198] 01 p0006 N84-10038
Safety report: General aviation crashworthiness project, phase 1
[PB83-917004] 03 p0328 N84-12142
Review of aircraft crash structural response research
[AD-A131696] 03 p0331 N84-12160
Crash Position Indicator/Crash Survivable Flight Data Recorder ejectable versus nonejectable
[AD-A132329] 04 p0484 N84-13184
Army helicopter crashworthiness 06 p0777 N84-15090
Developments in cabin safety and crashworthiness — passenger aircraft 08 p1101 N84-17161
Crashworthy cyclic control stick
[AD-A135150] 08 p1103 N84-17176
Crew survivable helicopter undercarriage
[AD-A137770] 11 p1606 N84-20517
Aermedical Support in Military Helicopter Operations
[AGARD-LS-134] 16 p2536 N84-26279
Medical aspects of helicopter safety and crashworthiness 16 p2537 N84-26287
Crash Position Indicator/Crash Survival Flight Data Recorder (CPI/CSFDR): Ejectable versus nonejectable 17 p2587 N84-26584
Proposed crashworthiness requirements for the Australian Basic Trainer
[AD-A140850] 17 p2603 N84-26682
Structures and Dynamics Division research and technology plans for FY 1894 and accomplishments for FY 1982
[NASA-TM-85828] 19 p3034 N84-29245
Design and development of an automatically controlled variable-load energy absorber
[AD-A142683] 20 p3128 N84-29868
Impact dynamics research on composite transport structures 20 p3146 N84-29975
Simulated crash decelerations in a light aircraft cabin
[AD-A142606] 21 p3326 N84-31102
Development of 2 underseat energy absorbers for application to crashworthy passenger seats for general aviation aircraft
[NASA-CR-158927] 22 p3533 N84-32367

CRATERING
NT PROJECTILE CRATERING
Impact and explosion crater ejecta, fragment size, and velocity
[NASA-CR-174578] 05 p0733 N84-14813
Centrifuge impact cratering experiment 5
[NASA-CR-173354] 10 p1497 N84-19784
Does saturation cratering exist in the solar system? 13 p2078 N84-23467
Progressive impact cratering 13 p2078 N84-23469
Geologic investigations of outer planets satellites
[NASA-CR-173497] 13 p2091 N84-23544
Callisto: A lunar-like bombardment? 15 p2426 N84-25575
The crater density of a linear feature 15 p2427 N84-25577
Geological rhythms and cometary impacts
[NASA-TM-86116] 21 p3524 N84-32327

CRATERS
NT LUNAR CRATERS
NT MARS CRATERS
NT METEORITE CRATERS
NT PLANETARY CRATERS
Impact cratering and spall failure at gabbro
[NASA-CR-174618] 04 p0562 N84-13704
Remote sensing and geologic studies of the planetary crusts
[NASA-CR-173216] 07 p1091 N84-17092
Photometry of icy satellites: How important is multiple scattering in diluting shadows? 13 p2073 N84-23438
Morphology of fresh craters on Ganymede and the origin of pedestal craters 13 p2078 N84-23466
Ode to gravity: Depth/diameter for fresh craters on Mercury 13 p2079 N84-23470
Cratering history of the Saturnian satellites 13 p2079 N84-23473
Geomorphic clues to the Martian volatile inventory. 1: Flow ejecta blankets 13 p2079 N84-23474
Distribution and properties of small volcanoes in Acidalia Planitia 13 p2080 N84-23478
Radar-visible wind streaks in the Altiplano of Bolivia 13 p2088 N84-23527
Ancient volcano-tectonic structures of the Olympus Mons Region, Mars 13 p2089 N84-23535
The crater density of a linear feature 15 p2427 N84-25577
Stratigraphic and volcano-tectonic relations of Crater Flat Tuff and some older volcanic units, Nye County, Nevada
[DE84-010926] 20 p3242 N84-30584

CRATONS
Relation of MAGSAT anomalies to the main tectonic provinces of South America 15 p2356 N84-25137

CRAY COMPUTERS
CRAY-1 instruction analysis: A comparison of two methods
[DE83-012778] 05 p0730 N84-14794
Efficient large-scale finite-element computations in a CRAY environment
[DE83-014946] 06 p0896 N84-15818
Some predictions on the performance of future supercomputers for simulation and control
[DE84-002785] 07 p1053 N84-16816
Squeezing the most out of an algorithm in Cray FORTRAN
[DE84-003871] 09 p1369 N84-18941
Cray/VAX interactive graphics system
[DE84-003826] 10 p1564 N84-20249
Factorization using the quadratic sieve algorithm
[DE84-004996] 10 p1572 N84-20299
Biaxial orientation and mechanical properties of amorphous polymers 13 p1998 N84-22965
OMEGA documentation
[DE84-007014] 14 p2206 N84-24239
The simulation of deformable mechanical systems using vector processors 17 p2675 N84-27045
Vectorized sparse elimination
[AD-A141131] 19 p3095 N84-29657
TOPAZ: A finite element heat conduction code for analyzing 2-D solids
[DE84-010676] 20 p3187 N84-30247
COSMIC/NASTRAN on the Cray computer systems 22 p3609 N84-32868

CRAZING
U SURFACE CRACKS

CREATININE
Changes in blood urea content under hypokinetic conditions 02 p0260 N84-11703

CREATION
U CREATIVITY

CREATIVITY
Organizational outcomes of creativity
[AD-A132825] 06 p0933 N84-16066
Training decision-makers to be creative: A management process model
[AD-P003347] 18 p2912 N84-28466

CREEP ANALYSIS
Tensile and compressive constitutive response of 316 stainless steel at elevated temperatures
[NASA-TM-83506] 06 p0805 N84-15249
The role of cobalt on the creep of Waspaloy
[NASA-CR-174628] 10 p1458 N84-19523
Stochastic simulation of creep behavior 15 p2316 N84-24869
Time dependent quasifracture nucleation and propagation 15 p2349 N84-25097
Creep damage mechanics and micromechanisms
[NPL-DMA(A)-77] 19 p3034 N84-29243
Modeling the behavior of type 304 stainless steel with a unified creep-plasticity theory 21 p3417 N84-31672
Creep transitions in aluminum solid-solution alloys 22 p3550 N84-32472

CREEP BUCKLING
Control of thermal stress in dendritic web growth 18 p2938 N84-28636

CREEP DIAGRAMS
Creep damage mechanics and micromechanisms
[NPL-DMA(A)-77] 19 p3034 N84-29243

CREEP PROPERTIES
NT SHEAR CREEP
NT TENSILE CREEP
Fatigue crack growth and low cycle fatigue of two nickel base superalloys
[NASA-CR-174534] 01 p0042 N84-10267
Low strain, long life creep fatigue of AF2-1DA and INCO 718
[NASA-CR-167989] 01 p0042 N84-10268
Study on creep-fatigue life prediction using simple high temperature low cycle fatigue testing machines
[PB83-224121] 01 p0086 N84-10559
Mathematical models for inelastic behavior and cracking of concrete structures 01 p0093 N84-10605
Research and development program for the development of advanced time-temperature dependent constitutive relationships. Volume 2: Programming manual
[NASA-CR-168191-VOL-2] 01 p0094 N84-10614
Creep and thermal effects in aging solids
[DE83-012673] 01 p0098 N84-10635

Evaluation of the kinematic variable (back stress) response of metals
[DE83-008381] 03 p0353 N84-12293
Creep fatigue of low-cobalt superalloys: Waspaloy, PM U 700 and wrought U 700
[NASA-CR-168260] 04 p0498 N84-13265
Effect of implanted helium on the microstructure and creep properties of ordered (FeO.49 NiO.51) V-3 alloys
[DE84-000891] 04 p0500 N84-13278
Computational models for cyclic plasticity, rate dependence and creep in finite element analysis
[PB83-245829] 04 p0505 N84-13306
Constitutive equations for the creep behavior of nickel-base alloys for High Temperature Reactor (HTR) components in the temperature range 1023-1273 K
[JUEL-1843] 05 p0657 N84-14318
Some remarks on the creeping flow of the second grade fluid
[AD-A132806] 05 p0681 N84-14473
Tensile and compressive constitutive response of 316 stainless steel at elevated temperatures
[NASA-TM-83506] 06 p0805 N84-15249
In-reactor creep behavior of selected ferritic alloys
[DE83-017005] 07 p0976 N84-16322
Creep properties of modified 9 Cr-1 Mo steel
[DE84-003174] 07 p0976 N84-16328
Characterization and analysis of cavity development during creep of ceramics at elevated temperature
[DE84-003113] 07 p0979 N84-16345
Factors which influence directional coarsening of Gamma prime during creep in nickel-base superalloy single crystals
[NASA-TM-83595] 08 p1131 N84-17353
Influence of composition on the microstructure and mechanical properties of a nickel-base superalloy single crystal
[NASA-TM-83563] 08 p1131 N84-17354
Influence of deformation behavior, oxydation, and temperature on the long time cyclic stress behavior of high temperature steels
[MPA-82-02] 09 p1334 N84-18710
Development of a simplified procedure for rocket engine thrust chamber life prediction with creep
[NASA-CR-168261] 10 p1450 N84-19472
Evaluation of fatigue-creep crack growth in an engine alloy
[AD-A136956] 10 p1460 N84-19536
Thermal creep and stress-affected precipitation of 20% cold-worked 316 stainless steel
[DE84-004933] 10 p1461 N84-19539
Creep of carbon yarns and composites at high temperature
[AD-A138143] 12 p1790 N84-21671
Creep and creep recovery of 2618-T61 aluminum under variable temperature
[AD-A137976] 12 p1797 N84-21723
An investigation of the structure and high temperature mechanical properties of oxide dispersion strengthened alloys
[AD-A139359] 14 p2128 N84-23756
Thermodynamic model of creep at constant stresses and constant strain rates
[AD-A139683] 15 p2317 N84-24908
Comparison of the force scale up to 1 MN between the Physikalisch-Technischen Bundesanstalt (PTB), West Germany and the Technical Research Centre of Finland (VTT)
[VTT-229] 15 p2336 N84-25021
Plastic deformation of ice single crystals containing inclusions 15 p2353 N84-25114
Cumulative creep damage for polycarbonate and polysulfone
[NASA-CR-173433] 16 p2471 N84-25840
Numerical and optical experiments on the Weissenberg effect
[DFVLR-FB-84-04] 16 p2493 N84-25992
Creep-low cycle fatigue interaction of 2 1/4 Cr 1 Mo steel at high temperature 16 p2501 N84-26051
Creep deformation measurement of polymer strips after buckling by Moire method
[NAL-TR-789] 16 p2501 N84-26055
Prediction of ductile crack growth in the austenitic steel WN 1.4948 at ambient and elevated temperature
[REPT-5011202-81-2] 17 p2625 N84-26799
Development of sintered Si3N4 for high performance thermomechanical applications
[AD-A140795] 17 p2627 N84-26807
Experimental and theoretical studies of creep crack growth
[AD-A141193] 18 p2614 N84-27862
Metallographic examinations of type 304 stainless steel (heat 9T2796) tested in high-temperature uniaxial and multiaxial experiments
[DE84-010637] 18 p2614 N84-27866
The effect of creep on the residual stresses generated during silicon sheet growth 18 p2938 N84-28634
Creep-rupture behavior of candidate Stirling engine iron superalloys in high-pressure hydrogen. Volume 2: Hydrogen creep-rupture behavior
[NASA-CR-174705] 19 p2992 N84-28961
Advanced high temperature materials for the energy efficient automotive Stirling engine
[NASA-TM-83659] 19 p2992 N84-28963
Failure by creep cracking and creep fatigue interaction in nickel base superalloys
[AD-A141112] 19 p2993 N84-28967
Oxygen diffusion in alpha-Al2O3
[NASA-TM-83622] 19 p2997 N84-28990
Sulfur and antimony segregation to creep cavity surfaces in Ni and an FCC Fe-Ni-Cr alloy
[DE84-011458] 20 p3154 N84-30028
Creep-fatigue and temperature synergisms in alloy 800
[DE84-010131] 20 p3157 N84-30046
A new optical technique for rapid determination of creep and fatigue thresholds at high temperature
[AD-A142675] 20 p3202 N84-30341
Comparative studies of vapor and liquid-phase impregnation of porous silicon nitride and silicon carbide materials
[DE84-012867] 21 p3359 N84-31309
Creep of six glues
[CETIM-1.3N.16.2] 21 p3372 N84-31396
The changes in the compressive and tensile yield strengths during uniaxial cyclic loading
21 p3418 N84-31674
A data acquisition and analysis system for fiber creep testing
[DE84-012654] 21 p3422 N84-31709
Probabilistic models of the stress-rupture of composite materials: Summary
[DE84-013477] 22 p3545 N84-32441
Modeling of concrete response at high temperature
[DE84-009587] 22 p3564 N84-32570
Computer system for fiber creep testing
[DE84-014453] 22 p3612 N84-32885
Kinetic time-temperature equation for creep of heat-resistant alloys taking aging into account
23 p3708 N84-33504
Long-term creep of copper at cryogenic temperatures
23 p3716 N84-33559
Mechanical response of ceramics to creep loading
23 p3760 N84-33830
Creep of LaCrO-3Cr ceramic-metallic material
24 p3877 N84-34568
Irradiation creep of solution annealed and coldworked 316 stainless steel
[DE84-780404] 24 p3885 N84-34613
Steady state creep in quartz
[DE84-701196] 24 p3912 N84-34776

CREEP RESISTANCE
U CREEP STRENGTH

CREEP RUPTURE STRENGTH
Creep-rupture reliability analysis
[NASA-CR-3790] 10 p1516 N84-19925
Microscopic and macroscopic appearance of ductile violent fractures (slide fractures)
14 p2125 N84-23739
Creep-rupture behavior of candidate Stirling engine alloys after long-term aging at 760 deg C in low-pressure hydrogen
[NASA-TM-83676] 16 p2464 N84-25793
Cold working and annealing effects on the creep and rupture resistance of the oxide-dispersion-strengthened alloy MA754
[AD-A141438] 19 p2993 N84-28969
Experimental research facility for creep-rupture testing of tantalum alloy T-111
[DE84-012030] 20 p3155 N84-30036

CREEP STRENGTH
A fundamental study of P/M processed elevated temperature aluminum alloys
[AD-A141780] 19 p2994 N84-28974
Development of improved low-strain creep strength in Cabot alloy R-41 sheet — nickel base sheet alloy for reentry shielding
[NASA-CR-172392] 21 p3365 N84-31346

CREEP TESTS
Grain boundary segregation and cavity formation in creep embrittled Cr-Mo steels 06 p0817 N84-15320
Effect of creep in titanium alloy Ti-6Al-4V at elevated temperature on aircraft design and flight test
[NASA-TM-86033] 09 p1330 N84-18685
Re-design and fabrication of titanium multi-wall Thermal Protection System (TPS) test panels
[NASA-CR-172247] 12 p1780 N84-21610
Some aspects of creep in nickel-base super alloys
[NPL-DMA(A)-72] 15 p2294 N84-24769
Prediction of creep and creep relaxation of AL 2618 under variable multiaxial stresses
[AD-A139950] 15 p2297 N84-24788
Experimental verification of constitutive equations for creep and the interaction of creep and plasticity under biaxial loading conditions
[REPT-5011202-81-3] 17 p2625 N84-26800

CRESTATRONS
U TRAVELING WAVE TUBES

CREVASSES
NT GLACIERS

CREVICES
U CRACKS

CREW PROCEDURES (INFLIGHT)
System for the management of trauma and emergency surgery in space
[NASA-CR-175439] 11 p1693 N84-21045
Safety recommendation A-84-7
16 p2443 N84-25674

CREW STATIONS
Computer aided techniques for crew station design, work-space Organizer-WORG, workstation layout Generator-WOLAG
[AD-A132981] 05 p0716 N84-14693
User's guide for COMBIMAN programs (Computerized Biomechanical Man-Model), version 6
[AD-A139139] 14 p2184 N84-24086

CREWS
NT FLIGHT CREWS
NT SPACECREWS
Memory organization-based methods of instruction: Rationale and development
[AD-A137504] 11 p1702 N84-21101
Models for the evaluation of work loads of crews during long distance flight 17 p2744 N84-27422
Relationship between crewmember characteristics and tank crew performance
[AD-P003355] 18 p2912 N84-28471

CRIMPING
U FOLDING

CRITERIA
NT STRUCTURAL DESIGN CRITERIA
Blanket comparison and selection study, volume 1
[DE84-003657] 10 p1585 N84-20392
A survey of macroscopic failure criteria for composite materials
[AD-A138091] 12 p1789 N84-21670
A minimum range criterion for RCS (Radar Cross-Section) measurements of a target dominated by point scatterers
[AD-A138230] 12 p1807 N84-21780
On the generation and use of quantitative criteria for assessing software maintenance quality
13 p2025 N84-23128
Material selection for controlling stress-corrosion cracking
[ESA-PSS-01-736-ISSUE-1] 16 p2465 N84-25799
Evaluation of entropy and JM-distance criterions as features selection methods using spectral and spatial features derived from LANDSAT images
[E84-10141] 16 p2507 N84-26089
Flaw detection reliability criteria. Volume 1: Methods and results
[AD-A142001] 20 p3199 N84-30320
A simulation technique for checking the circle criterion — linear systems stability
[RR-248] 20 p3267 N84-30733

CRITICAL EXPERIMENTS
Rapid energization of electrons in a critical velocity discharge experiment
[TRITA-EPP-83-02] 02 p0297 N84-11947

CRITICAL FLOW
Vortex stability and breakdown
03 p0325 N84-12122
Phonon-induced enhancements of the energy gap and critical current in superconducting aluminum
[DE83-015210] 03 p0455 N84-12996
Transport and relaxation processes in supercritical fluids
[DE84-002182] 07 p1081 N84-17030
Water-tunnel study of transition flow around circular cylinders
[NASA-TM-85879] 14 p2100 N84-23606
Stability of tubes conveying fluid
[DE84-010573] 20 p3185 N84-30240

CRITICAL FREQUENCIES
Global maps of foF2 derived from observations and theoretical values
[PB84-163906] 15 p2369 N84-25215
On the study of the prediction method of ionospheric F2-layer critical frequency 24 p3955 N84-35043

CRITICAL LOADING
Critically damped dynamic systems
15 p2313 N84-24879
Experimental study of behavior of cylindrical shells with lumped masses under dynamic external pressure
17 p2650 N84-26947

CRITICAL MACH NUMBER
U CRITICAL VELOCITY
U MACH NUMBER
CRITICAL PATH METHOD
Is critical path planning the answer — computer techniques in project management 05 p0718 N84-14705
Estimating critical path and arc probabilities in stochastic activity networks
[AD-A134255] 07 p1067 N84-16925
Frequency encoded auditory display of the critical tracking task
[NASA-TM-85869] 13 p1931 N84-22558
Implementation of an optimal multicommodity network flow algorithm based on gradient projection and a path flow formulation
[AD-A139935] 13 p2029 N84-23154
CRITICAL POINT
Multiple critical points of invariant functionals and applications
[AD-A130544] 01 p0130 N84-10853
Critical heat flux in forced convection boiling of Freon in a tube at high subcritical pressure: In the case of vapor-liquid mixture at inlet 07 p0984 N84-16373
Investigation of multiple scattering contributions to the depolarization of light scattered by carbon dioxide and xenon in the critical region. Part 3: Comparison between theory and experimental results
[VDW-PUBL-267] 19 p3105 N84-29731
CRITICAL REYNOLDS NUMBER
U CRITICAL VELOCITY
U REYNOLDS NUMBER
CRITICAL SPEED
U CRITICAL VELOCITY
CRITICAL STRESS
U CRITICAL LOADING
CRITICAL TEMPERATURE
Is it superconductivity at 293 k?
[AD-A132545] 04 p0612 N84-14037
The concepts of critical temperature and energy cutoff of ambient electrons in high voltage charging of spacecraft 08 p1119 N84-17275
Magnetic excitations in transition-metal ferromagnets. Recent progress and future prospects on neutron scattering experiments
[DE84-008808] 18 p2928 N84-28566
The proximity effects of superconducting multilayer film
[AD-A143255] 22 p3662 N84-33217
Optical effects of the gravitationally induced concentration gradient in tricritical 3He-4He
[DE84-009972] 23 p3830 N84-34297
CRITICAL VELOCITY
Active experiments in space — conferences
[ESA-SP-195] 05 p0634 N84-14172
Critical velocity experiments in space 05 p0639 N84-14203
The space shuttle environment as evidence of critical ionization phenomena 05 p0639 N84-14204
The role of momentum transfer to the ambient plasma in critical velocity experiments 05 p0639 N84-14205
Neutral gas plasma interactions and critical ionization velocity phenomena
[AD-A139233] 14 p2228 N84-24360
CROP CALENDARS
Meteorological models for estimating phenology of corn
[E84-10160] 17 p2709 N84-27252
Seasonal variation of spectral brightness coefficients for barley and rye 19 p2977 N84-28872
CROP GROWTH
Respiration of roots response to low O2 stress
[DE83-017495] 04 p0572 N84-13766
In vitro seed to seed growth on clinostats 09 p1358 N84-18863
Isolation and characterization of beta-glucan synthase: A potential biochemical regulator of gravistimulated differential cell wall loosening 09 p1359 N84-18882
Remote sensing of agricultural crops and soils
[E84-10107] 12 p1829 N84-21925
A study of the relation between crop growth and spectra reflectance parameters 12 p1831 N84-21936
Measuring and modeling of the dielectric properties and attenuation of vegetation 12 p1832 N84-21940
A study of the relation between crop growth and spectra reflectance parameters 12 p1833 N84-21949
USSR Report: Life sciences, biomedical and behavioral sciences
[JPRS-UBB-84-003] 12 p1864 N84-22145
Use of transformed LANDSAT data in regression estimation of crop acreages 17 p2706 N84-27246
Meteorological models for estimating phenology of corn
[E84-10160] 17 p2709 N84-27252
Research and applications of data from environmental satellites: Determining parameters and developing interpretation techniques for applications of environmental satellite data
[INPE-3005-NTE/213] 17 p2711 N84-27261
Hot spot reflectance measurements applied to green biomass estimation and crop growth monitoring
[NLR-MP-83037-U] 17 p2721 N84-27323
CROP IDENTIFICATION
An analysis of spectral discrimination between corn and soybeans using a row crop reflectance model
[E84-10008] 01 p0099 N84-10642
Radar remote sensing for crop classification and canopy condition assessment: Ground-data documentation
[E84-10020] 01 p0099 N84-10643
An empirical Bayes approach to spatial analysis 03 p0393 N84-12563
First results of the evaluations of the European SAR 580 data for agricultural and forestry purposes in test site D6, Freiburg (West Germany) 03 p0398 N84-12599
Crop identification of SAR data using digital textural analysis 07 p0988 N84-16404
Evaluation of a native vegetation masking technique
[E84-10108] 12 p1829 N84-21926
Discrete random media techniques for microwave modeling of vegetated terrain 12 p1832 N84-21939
LANDSAT-4 image data quality analysis
[E84-10134] 16 p2506 N84-26082
Area estimation using multiyear designs and partial crop identification
[E84-10151] 16 p2509 N84-26099
Identification and estimation of the area planted with irrigated rice based on the visual interpretation of LANDSAT MSS data
[E84-10164] 17 p2710 N84-27256
A sampling system for estimating the cultivation of wheat (Triticum aestivum L) from LANDSAT data
[E84-10165] 17 p2711 N84-27257
Hot spot reflectance measurements applied to green biomass estimation and crop growth monitoring
[NLR-MP-83037-U] 17 p2721 N84-27323
Thematic Mapper spectral dimensionality and data structure 20 p3209 N84-30387
An initial analysis of LANDSAT-4 Thematic Mapper data for the discrimination of agricultural, forested wetland, and urban land covers 20 p3213 N84-30414
Crop identification by means of spectral profiles — hand held radiometers 23 p3768 N84-33888
CROP INVENTORIES
Mixture models for dependent observations 03 p0393 N84-12562
Quantile data analysis of image data 03 p0393 N84-12565
Monitoring of renewable resources (a land information system for Europe) — remote sensing 03 p0395 N84-12581
SAR 580: Images for agricultural and forest survey. First results in middle Belgium 03 p0397 N84-12595
Development of visible/infrared/microwave agriculture classification and biomass estimation algorithms, volume 2 — Oklahoma and Texas
[E84-10059] 06 p0864 N84-15629
Land use inventory and statistical sampling in agriculture — spaceborne remote sensing 08 p1176 N84-17658
Crop area estimation based on remotely-sensed data with an accurate but costly subsample
[E84-10087] 10 p1521 N84-19958
Irrigated rice area estimation using remote sensing techniques: Project's proposal and preliminary results — Rio Grande do Sul, Brazil
[E84-10131] 16 p2506 N84-26081
Sampling system for wheat (Triticum aestivum L) area estimation using digital LANDSAT MSS data and aerial photographs — Brazil
[E84-10139] 16 p2506 N84-26087
Area estimation using multiyear designs and partial crop identification
[E84-10151] 16 p2509 N84-26099
A study of multispectral model of land cover 24 p3955 N84-35042
CROP INVENTORIES BY REMOTE SENSING
U AGRISTARS PROJECT
CROP VIGOR
Use of remote sensing for land use policy formulation
[E84-10117] 14 p2167 N84-23977
CROPLANDS
U FARMLANDS
CROPS
Development of a data base for carbon dioxide releases resulting from conversion of land to agricultural uses
[DE83-015728] 03 p0402 N84-12626
Acidic deposition effects on vegetation: A review and analysis of methodology
[DE84-004014] 09 p1343 N84-18769
Measurement and modeling of the optical scattering properties of crop canopies 12 p1833 N84-21948
The management of atmospheric resources in food production
[INPE-3121-PRE/514] 16 p2528 N84-26231
CROSS CORRELATION
Exact performance of general second-order processors for Gaussian inputs
[AD-A134098] 05 p0733 N84-14816
Ambiguity surface statistics and fluctuations
[AD-A137499] 10 p1570 N84-20284
Digital phase meter 18 p2826 N84-27941
Ultrasonic velocity measurement using phase-slope cross-correlation methods
[NASA-TM-83794] 24 p3911 N84-34769
CROSS COUPLING
Simulation of mechanical cross coupling of multiaxes vibration facilities 03 p0340 N84-12207
A theory for cross-coupling in ultrasonic transducer arrays
[DE84-010327] 20 p3189 N84-30259
CROSS FAULTS
U GEOLOGICAL FAULTS
CROSS FLOW
Transient heat flow across uni-directional fibers in composites
[AD-A131052] 01 p0032 N84-10199
Heat transfer distributions around nominal ice accretion shapes formed on a cylinder in the NASA Lewis icing research tunnel
[NASA-TM-83557] 05 p0679 N84-14463
A lifting surface computer code with jet-in-crossflow interference effects. Volume 1: Theoretical description
[NASA-CR-166524] 07 p0947 N84-16147
Dynamics of tubes in fluid with tube-baffle interaction — heat exchanger tubes
[DE84-001452] 07 p1003 N84-16508
Turbulence measurements in plane jets and plumes in crossflow
[PB84-105303] 08 p1160 N84-17554
Photon-burst correlation techniques for atmospheric crosswind measurements
[AD-A134617] 08 p1187 N84-17735
Body and canard effects on an attached-flow maneuver wing at Mach 1.62
[NASA-TP-2249] 09 p1250 N84-18163
Delta wings with shock-free cross flow
[NASA-CR-172297] 10 p1419 N84-19262
Turbulence measurements in plane jets and plumes in crossflow 10 p1496 N84-19783
The Shock and Vibration Digest, volume 15, no. 7
[AD-A132576] 10 p1505 N84-19845
Instability of circular cylinder arrays in cross flow 10 p1506 N84-19847
Free stream turbulence and density ratio effects on the interaction region of a jet in a cross flow 11 p1611 N84-20546
Non-steady combustion of composite solid propellants
[AD-A139182] 14 p2132 N84-23776
An investigation of the interaction between multiple dilution jets and combustion products 15 p2292 N84-24758
Turbulence effect on laminar separation on a circular cylinder 15 p2314 N84-24889
Fluid forces on a rigid cylinder in turbulent crossflow
[DE84-006364] 15 p2333 N84-25012
Operational performance characteristics of a multiply-shrouded, angled-diffuser stack gas eductor in turbulent cross-flow
[AD-A139953] 15 p2343 N84-25068
An analysis of wave interactions in swept-wing flows
[NASA-CR-173723] 18 p2786 N84-27681
Real jet effects on dual jets in a crossflow
[NASA-CR-173817] 19 p3022 N84-29161
A study of the cross flow fan 23 p3688 N84-33372
Heat transfer from a circular cylinder due to a slot jet impingement 23 p3746 N84-33747
A flow visualization investigation on selected shapes with emphasis on flow separation
[AD-A143804] 23 p3747 N84-33753
Effect of physical properties on break-up and atomization of liquid jets in a supersonic crossflow 24 p3851 N84-34427
CROSS POLARIZATION
Effects of cochannel interference on QPSK systems in a nonlinear satellite channel 05 p0671 N84-14414
Focused acoustical and optical backscattering from spheres and properties of optoacoustic sources
[AD-A133744] 05 p0747 N84-14904
Polarization diversity combining for reduction of angular scintillation: Probability density function for a Two-Point-Scatterer target
[AD-A135859] 09 p1300 N84-18499
Ice depolarization on low-angle 2 GHz satellite downlinks 15 p2323 N84-24946

Parametric analysis of synthetic aperture radar data acquired over truck garden vegetation
23 p3767 N84-33878

CROSS SECTIONS
Cross sections relevant to gamma-ray astronomy: Alpha-particle-induced reactions
[DE83-015533] 03 p0461 N84-13038
Direct determination of surface structures from photoelectron diffraction
[DE84-002572] 05 p0663 N84-14360
Discharge cell for optogalvanic spectroscopy having orthogonal relationship between the probe laser and discharge axis
[NASA-CASE-NPO-16271-1] 06 p0849 N84-15537
Production of Krypton-81 and Krypton-85 by cosmic rays
[DE84-004439] 09 p1418 N84-19276
Evaluation of excitation cross sections by plasma spectroscopy 11 p1735 N84-21315
Effects of vegetation canopy structure on microwave scattering 12 p1832 N84-21942
Absolute photoionization cross sections of atomic oxygen
[NASA-CR-173873] 21 p3492 N84-32130
Electron capture cross sections in high energy He2+ + neutral Li collisions
[IPPJ-679] 21 p3500 N84-32182

CROSSBEDDING (GEOLOGY)
Tube waves recorded in a seismic crosshole experiment
[FOA-C-20521-E1] 15 p2368 N84-25208
Systematic jointing in the cardium sandstone along the Bow River, Alberta, Canada 22 p3620 N84-32937

CROSSED FIELD AMPLIFIERS
Cathode driven high gain crossed-field amplifier
[AD-A133030] 05 p0676 N84-14441

CROSSINGS
Scaling theorems for zero-crossings
[AD-A131599] 02 p0281 N84-11839
Higher order crossings
[AD-A137086] 10 p1571 N84-20296

CROSSLINKING
NT VULCANIZING
New fluorocarbon elastomers for seals for geothermal and other aggressive environments
[DE83-014424] 01 p0090 N84-10590
Plasma polymerized high energy density dielectric films for capacitors
[NASA-CR-168233] 04 p0505 N84-13310
Relationships between the glass transition, thermodynamic and mechanical values as possible sources of information correlating material properties with chemical structure
[BR-90008] 05 p0644 N84-14238
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-3] 13 p1953 N84-22698
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-4] 13 p1953 N84-22699
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-5] 13 p1953 N84-22700
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-6] 13 p1953 N84-22701
Process for preparing perfluorotriazine elastomers and precursors thereof
[NASA-CASE-ARC-11402-1] 13 p1961 N84-22744
Ethynyl and substituted ethynyl-terminated polysulfones
[NASA-CASE-LAR-12931-1] 13 p1962 N84-22747
Effect of interfacial bonding on the strength of adhesion of elastomers. 3: Interlinking by molecular entanglements
[AD-A138760] 13 p1963 N84-22757
Kinetics of chromium ion absorption by cross-linked polyacrylate films
[NASA-TM-83661] 14 p2118 N84-23693
Phenoxy resins containing pendent ethynyl groups and cured resins therefrom
[NASA-CASE-LAR-13262-1] 15 p2300 N84-24805
Ethynyl-terminated ester oligomers and polymers therefrom
[NASA-CASE-LAR-13118-1] 19 p2997 N84-28988
Acquisition cost analysis for the near term military application of laser versus millimeter wave for satellite crosslink communications
[AD-A141061] 19 p3004 N84-29037
Properties of UV-cured polyurethane acrylates: Effect of polyol type and molecular weight
[AD-A143178] 22 p3559 N84-32537

CROSSOVERS
Spin correlations near the ferromagnetic to spin glass crossover
[DE84-007385] 15 p2299 N84-24799

CROSSTALK
Bidirectional fiber optic cable adapter
[AD-A133371] 06 p0824 N84-15370
Processing techniques for intelligibility improvement to speech with co-channel interference
[AD-A135702] 09 p1302 N84-18508
Unbalanced digital crosswalk in balanced, twisted pair, inside wiring cable 11 p1720 N84-21216
Self-defocusing and optical crosstalk in a bistable optical etalon 14 p2234 N84-24403
The present status of Clean PAL systems
[BBC-RD-1984/6] 20 p3172 N84-30142

CRUCIBLES
Influence of container interactions on the vaporization thermodynamics of nickel
[MRL-R-884] 17 p2622 N84-26784
Recent advances in LPE GaAs-based solar cells 19 p3044 N84-29310

CRUCIFORM WINGS
Solar powered aircraft
[NASA-CASE-LAR-12615-1] 03 p0330 N84-12154

CRUDE OIL
Studies related to the deep Earth gas
[PB83-244004] 02 p0251 N84-11644
Short-term energy outlook. Volume 2. Methodology
[DE83-016853] 03 p0405 N84-12648
Tactical buying decisions for strategic petroleum reserve spot procurements: The tunnel theory
[AD-P002812] 13 p2060 N84-23358
Assessment of Alternative Aircraft Fuels
[NASA-CP-2307] 14 p2106 N84-23630
The effect of property changes on jet fuel producibility and cost 14 p2106 N84-23632
Speculations on the petroleum resources of Antarctica 14 p2160 N84-23938
Alaska's mineral resources
[DE84-006918] 14 p2170 N84-23998
Symposium Proceedings: A National program for the assessment and development of the mineral resources of the United States Exclusive Economic Zone
[US-CIRC-929] 18 p2866 N84-28192
Panel 1A: Geologic studies related to oil and gas development in the EEZ 18 p2866 N84-28194
Panel 2A: Offshore oil and gas technology assessment 18 p2866 N84-28196
Petroleum and minerals resource assessment 19 p3038 N84-29273
The toxicity of petroleum and shale JP5
[AD-A142670] 20 p3260 N84-30690
The geology and petroleum resources of basins in the Asian Arctic and offshore east Greenland
[DE84-012114] 21 p3431 N84-31772
Microfacies, depositional environments and diagenesis of the Amapa carbonates (Paleocene - Middle Miocene) Foz Do Amazonas Basin, offshore northeast Brazil 21 p3439 N84-31817
USSR report: Chemistry
[JPRS-UCH-84-007] 24 p3867 N84-34508

CRUISE MISSILES
Investigation of water rotor turbofans for Cruise Missile engines, volume 2
[AD-A131168] 02 p0180 N84-11173
Investigation of wave rotor turbofans for Cruise Missile engines, volume 1
[AD-A131167] 02 p0180 N84-11174
Computer assessment of electromagnetic means of detecting approaching cruise missile
[DE84-005115] 10 p1482 N84-19687
DARPA (Defense Advanced Research Projects Agency) air vehicles technology office technical task order contract
[AD-A138687] 14 p2105 N84-23625
Centrifugal scaling laws for ground launch cruise missile shelter
[AD-A141572] 19 p2969 N84-28818
Pivotal mono wing cruise missile with wing deployment and fastener mechanism
[AD-D011192] 24 p3853 N84-34436

CRUISING FLIGHT
Joint services advanced vertical wing (JVX) program
[GPO-22-771] 02 p0177 N84-11160
Engine/airframe interference drag at cruise conditions, using propulsion simulation
[NLR-TR-82012-U] 03 p0321 N84-12098
Range and endurance of jet-engined airplanes at constant altitude
[REPT-83-A1-SER-A] 04 p0483 N84-13175
Helicopter rotor wake geometry and its influence in forward flight. Volume 1: Generalized wake geometry and wake effect on rotor airloads and performance
[NASA-CR-3726] 08 p1099 N84-17149
Trending of cruise drag — aircraft performances
[NLR-TR-82078-U] 09 p1256 N84-18200
Measurements of the fuel mileage of a KC-135 aircraft with and without winglets 18 p2787 N84-27690

CRUSADER AIRCRAFT
U F-8 AIRCRAFT

CRUSHERS
Design of an abrasion test under high stress. Application to the characterization of manganese steel quality assurance
[CETIM-12-D-081] 21 p3415 N84-31659

CRUSHING
Program for processing raw materials
12 p1784 N84-21642

CRUSTAL FRACTURES
Stressing processes associated with great crustal earthquakes at plate boundaries
02 p0246 N84-11612
Geoid anomalies and fracture zones in the Pacific Ocean
[E84-10052] 05 p0696 N84-14572
Combined use of remote sensing and seismic observations to infer geologically recent crustal deformation, active faulting, and stress fields — California and Pennsylvania
[E84-10057] 06 p0864 N84-15628
Wave propagation in porous rock and models for crustal structure 06 p0876 N84-15698
Seismic properties of the crust and uppermost mantle of North America
[NASA-CR-175134] 06 p0877 N84-15708
Is the Kapuskasing structure the site of a cryptic suture 11 p1678 N84-20949
Venus: The nature of the surface from Venera panoramas 13 p2077 N84-23459
Small-scale polygons on Mars
13 p2085 N84-23505
Geothermal resources of southern Idaho
[USGS-CIRC-866] 14 p2168 N84-23988
Determination of propped fracture length by detection of injected magnetic material with surface superconducting magnetometers
[PB84-181320] 17 p2698 N84-27176
Algorithm for determining coordinates of hypocenters of near earthquakes and seismic wave propagation velocity in layer 17 p2706 N84-27235
Relationship between residual displacements, strains and tilts of Earth's surface and earthquake focus characteristics 18 p2862 N84-28174
High precision measurements in crustal dynamic studies
[NASA-CR-173680] 18 p2879 N84-28279
The shear wave velocity structure of the lithosphere in central and northern California 23 p3795 N84-34063
Crustal shear velocity modelling in Nevada: A study of broadband multi-mode surface waves
24 p3918 N84-34802
Geophysical interpretation of satellite laser ranging measurements of crustal movement in California
[NASA-TM-86148] 24 p3919 N84-34808
Planetary tectonics 24 p3990 N84-35247

CRUSTS
NT EARTH CRUST
NT LUNAR CRUST
Seismicity and crustal structure studies of southern California: Tectonic implications from improved earthquake locations 21 p3439 N84-31819

CRYOGENIC COMPUTER STORAGE
Thermal energy storage evaluation and life testing
[NASA-CR-174464] 01 p0102 N84-10660

CRYOGENIC COOLING
Control and operation cost optimization of the HISS cryogenic system
[DE83-017741] 04 p0515 N84-13384
Closed cycle cryocooler for low temperature electronics circuits: Cold end test
[AD-A134043] 05 p0682 N84-14354
Propulsion apparatus and method using boil-off gas from a cryogenic liquid — controlling spacecraft attitude and drag
[NASA-CASE-MFS-25946-1] 06 p0796 N84-15183
Refrigeration for Cryogenic Sensors
[NASA-CP-2287] 06 p0818 N84-15327
US Navy program in small cryocoolers
06 p0818 N84-15328
NASA needs and trends in cryogenic cooling
06 p0818 N84-15329
Japanese activities in refrigeration technology
06 p0818 N84-15330
Spacecraft-borne long life cryogenic refrigeration: Status and trends 06 p0818 N84-15331
Regeneration experiments below 10K in a regenerative-cycle cryocooler 06 p0818 N84-15332
A cryocooler for applications requiring low magnetic and mechanical interference 06 p0818 N84-15333
An approach to optimization of low-power Stirling cryocoolers 06 p0818 N84-15334
Regeneration efficiency, shuttle heat loss and thermal conductivity in epoxy-composite annular gap regenerators from 4K to 80K 06 p0818 N84-15335

A 10 deg K triple-expansion Stirling-cycle cryocooler
06 p0819 N84-15336
Gifford-McMahon refrigerator with split cold head
06 p0820 N84-15346
Optimal design of gas adsorption refrigerators for cryogenic cooling 06 p0820 N84-15348
A general computer model for predicting the performance of gas sorption refrigerators
06 p0820 N84-15349
LaNi5 hydride cryogenic refrigerator test results
06 p0821 N84-15350
4.0 K cryocooler project
[DE84-000332] 06 p0822 N84-15356
Analysis of a high-frequency Stirling Cycle compressor for cryogenic cooling in space
[NASA-TM-85086] 06 p0852 N84-15555
A proposed method for model temperature conditioning in cryogenic wind tunnels
[OUEL-1480/83] 07 p0960 N84-16224
Cyrogenic FET IF-amplifier for a mm wave mixer
[REPT-S-124] 09 p1310 N84-18566
Thermal design and performance of the IRAS spacecraft system 10 p1441 N84-19415
One year of stars, provided by the IRAS cryogenic system 10 p1442 N84-19416
Thermal design of Infrared Space Observatory (ISO) payload dual cooling 10 p1442 N84-19417
Design and test of a cryogenic phase separator for zero-g environment 10 p1442 N84-19418
A 650 mm long liquid hydrogen target for use in a high intensity electron beam
[DE84-007086] 12 p1902 N84-22389
Atomic hydrogen for low temperature atomic hydrogen masers and in-vacuum dissociators for VLG-11 series masers
[NASA-CR-173506] 14 p2150 N84-23860
Phase and volumetric studies for methane/synthesis gas separations: The hydrogen-carbon monoxide-methane system
[PB84-214394] 21 p3375 N84-31417
Maximum supercooling in liquid 3He-4He mixtures near the tricritical point
[DE84-010076] 22 p3665 N84-33232
Dynamical scaling in 3He-4He liquid mixtures
[DE84-010072] 22 p3665 N84-33233
A cryogenically cooled, multidetector spectrometer for infrared astronomy
[NASA-TM-86004] 23 p3840 N84-34359

CRYOGENIC EQUIPMENT
Properties of manganese alloys for cryogenic engineering
[BLL-M-35127-(5828.4)] 01 p0040 N84-10251
Resilient seal ring assembly with spring means applying force to wedge member — cryogenic applications
[NASA-CASE-MFS-25678-1] 02 p0228 N84-11497
Helium-flow measurement using ultrasonic technique
[DE83-017765] 03 p0431 N84-12826
Closed cycle cryocooler for low temperature electronics circuits: Cold end test
[AD-A134043] 05 p0662 N84-14354
Gifford-McMahon refrigerator with split cold head
06 p0820 N84-15346
Suitability of commercially available laboratory cryogenic refrigerators to support shipboard electro-optical systems in the 10 - 77 Kelvin region 06 p0821 N84-15355
Low cost microminiature refrigerators for large unit volume applications 06 p0822 N84-15356
Transonic cryogenic test section for the Goettingen tube facility
[NASA-TM-77050] 07 p0959 N84-16219
Design study of magnetic eddy-current vibration suppression dampers for application to cryogenic turbomachinery
[NASA-CR-173273] 07 p1012 N84-16562
Developed electrotechnology during a cosmic frost
[AD-A135575] 09 p1308 N84-18552
One year of stars, provided by the IRAS cryogenic system 10 p1442 N84-19416
Frigair 1983. Papers
[CSIR-S-281] 11 p1639 N84-20717
Thermal contacts between metal and glass for use at cryogenic temperatures
[NASA-TM-85856] 12 p1907 N84-22423
Cryogenic 75-95 GHz front-end for the Metsaehovi radio telescope
[REPT-S-145] 15 p2424 N84-25564
Characterization of pressure transducers for future cryogenic wind tunnels 16 p2476 N84-25873
Optimation of cooled shields in insulations
[NASA-CR-166563] 18 p2836 N84-27999
Development of a 6-component balance for the cryogenic range
[BMFT-FB-W-84-022] 20 p3191 N84-30270
Field ion microscopy and spectroscopy of hydrogen in metals
[DE84-012972] 21 p3388 N84-31386
Operating modes of superconducting current converters in service 21 p3379 N84-31445

CRYOGENIC FLUID STORAGE
Cryogenic insulation strength and bond tester
[NASA-CASE-MFS-25910-1] 02 p0199 N84-11297
Testing and characterizations of infrared sensor over the temperature range of 2 Kelvin to 300 Kelvin
06 p0820 N84-15347
Cryogenic Fluid Management Experiment (CFME) trunnion verification testing
[NASA-CR-168310] 07 p0985 N84-16381
Design and test of a cryogenic phase separator for zero-g environment 10 p1442 N84-19418
Evaluation of propellent tank insulation concepts for low-thrust chemical propulsion systems: Executive summary
[NASA-CR-168321] 11 p1636 N84-20699
Design considerations for a HE-3 refrigerator for space applications
[NASA-TM-85973] 18 p2836 N84-28001
Experimental study on porous-plug phase separator for superfluid He2
[ISAS-612] 20 p3308 N84-31006

CRYOGENIC FLUIDS
NT FERMI LIQUIDS
NT LIQUID HELIUM
NT LIQUID HELIUM 2
NT LIQUID HYDROGEN
NT LIQUID NITROGEN
NT LIQUID OXYGEN
NT SOLIDIFIED GASES
Feasibility tests of pipeline pigs for cryogenic pipelines
[DE83-015494] 02 p0206 N84-11343
Food preservation with gas 11 p1640 N84-20719
On-orbit cryogenic fluid transfer
[NASA-TM-83688] 16 p2457 N84-25753
US energy: Aviation perspective
[AD-A137766] 18 p2821 N84-27910

CRYOGENIC GYROSCOPES
Background information on the He(3) nuclear gyroscope
[AD-A130755] 01 p0084 N84-10545

CRYOGENIC MAGNETS
Thermal performance of the MFTF magnets
[DE83-016275] 03 p0454 N84-12988
Utilization of low temperatures in electrical machines
[AD-A133325] 06 p0830 N84-15399
LBL program of 1 meter long, 50 mm diameter bore, dipoles with fields greater than 8 tesla
[DE84-002902] 07 p1073 N84-16973

CRYOGENIC ROCKET PROPELLANTS
Combustion performance and heat transfer characterization of LOX/hydrocarbon type propellants, volume 1
[NASA-CR-171713] 02 p0202 N84-11319
Combustion performance and heat transfer characterization of LOX/hydrocarbon type propellants
[NASA-CR-171712] 02 p0205 N84-11335
Computational modeling of jet induced mixing of cryogenic propellants in low-G
[NASA-TM-83703] 15 p2331 N84-25000
Computational modelling of jet induced mixing in cryogenic propellant tanks in low-g
23 p3745 N84-33742

CRYOGENIC WIND TUNNELS
Video model deformation system for the National Transonic Facility
[NAS 1.15:85681] 02 p0222 N84-11457
La Recherche Aerospatiale, Bimonthly Bulletin, no. 1982-2, 207/March-April 1982
[ESA-TT-759] 04 p0478 N84-13143
Aerodynamic force measurements with a strain-gage balance in a cryogenic wind tunnel
[NASA-TP-2251] 04 p0480 N84-13162
A quasi-continuous transonic wind tunnel for cryogenic operation
[ROLLAB-MEMO-RM-096] 06 p0792 N84-15161
A proposed method for model temperature conditioning in cryogenic wind tunnels
[OUEL-1480/83] 07 p0960 N84-16224
The European Transonic Windtunnel (ETW)
14 p2094 N84-23566
The T2 cryogenic wind tunnel with self-adaptable walls at ONERA/CERT 14 p2095 N84-23567
The cryogenic wind tunnel Cologne
14 p2095 N84-23568
Producing a cryogenic gust in an Eiffel type atmospheric wind tunnel with short gust 14 p2095 N84-23569
Prediction of condensation onset and growth in the European Transonic Wind Tunnel (ETW)
14 p2096 N84-23578
Nonadiabatic model wall effects on transonic airfoil performance in a cryogenic wind tunnel
14 p2096 N84-23579
Evaluation tests of platinum resistance thermometers for a cryogenic wind tunnel application
[NASA-TM-85803] 14 p2148 N84-23865
Characterization of pressure transducers for future cryogenic wind tunnels 16 p2476 N84-25873
Computation of imaginary-aide pressure distributions over the flexible walls of the test section insert for the 0.3-M transonic cryogenic tunnel
[NASA-CR-172363] 18 p2785 N84-27678
Fastener load tests and retention systems tests for cryogenic wind-tunnel models
[NASA-TM-85805] 19 p2993 N84-28964
Development of a 6-component balance for the cryogenic range
[BMFT-FB-W-84-022] 20 p3191 N84-30270
Engineering changes to the 0.1m cryogenic wind tunnel at Southampton University
[NASA-CR-172430] 22 p3538 N84-32397
Technical evaluation report on the Fluid Dynamics Panel Symposium on Wind Tunnels and Testing Techniques
[AGARD-AR-193] 22 p3539 N84-32402
Cryogenic wind tunnel technology. A way to measurement at higher Reynolds numbers
[NASA-TM-77481] 24 p3857 N84-34451

CRYOGENICS
A technique for dynamically calibrating pressure transducers at cryogenic temperatures
[NASA-TM-85695] 02 p0222 N84-11458
Cryogenic system for a superconducting spectrometer
[DE83-012995] 02 p0299 N84-11961
Comparative evaluation of existing concepts for a 10-tesla FED toroidal field coil
[DE83-012817] 03 p0429 N84-12815
Combined cold compressor/ejector helium-refrigerator cycle
[DE83-017764] 04 p0515 N84-13385
Fermilab satellite refrigerator compressors with the oil- and moisture-removal systems
[DE83-017328] 04 p0515 N84-13386
Cryogenic testing of the TPC superconducting solenoid
[DE84-000528] 04 p0527 N84-13467
Heat transfer to subcooled HE 1
[DE83-017767] 04 p0535 N84-13520
Forced two-phase cooling of the TPC superconducting solenoid
[DE83-017749] 04 p0613 N84-14049
Materials studies for magnetic fusion energy applications at low temperatures, part 6
[PB83-259630] 05 p0657 N84-14320
Research and technology at the Kennedy Space Center
[NASA-TM-83092] 05 p0759 N84-14975
A miniature tilting pad gas lubricated bearing
06 p0819 N84-15340
Life test performance of a Philips rhombic-drive refrigerator with bellows seals 06 p0819 N84-15341
Split-Stirling, linear-resonant, cryogenic refrigerators for detector cooling 06 p0819 N84-15342
Computer program for analysis of split-Stirling-cycle cryogenic coolers 06 p0820 N84-15344
A magnetically suspended linearly driven cryogenic refrigerator 06 p0820 N84-15345
Testing and characterizations of infrared sensor over the temperature range of 2 Kelvin to 300 Kelvin
06 p0820 N84-15347
A helium-3 refrigerator employing capillary confinement of liquid cryogen 06 p0821 N84-15353
Cascade Joule-Thomson refrigerators
06 p0821 N84-15354
A report on superfluid helium flow through porous plugs for space science applications 06 p0930 N84-16043
Acoustic microscopy at cryogenic temperatures
[AD-A135089] 08 p1141 N84-17421
Developed electrotechnology during a cosmic frost
[AD-A135575] 09 p1308 N84-18552
Problems in the development of high-power turbogenerators with superconducting field windings
[AD-A136525] 09 p1325 N84-18657
Use of phase transformations in the design of alloy steel
[DE84-003050] 10 p1462 N84-19550
Cryogenically cooled broad-band GaAs field-effect transistor preamplifier
[DE84-004166] 10 p1487 N84-19722
Cryomicrotome applications: Techniques for the study of skeletal materials
[AD-A137010] 10 p1545 N84-20130
Chemical reactions and molecular aggregation in cryogenic whole air sample matrices
[AD-A137879] 11 p1682 N84-20977
Select fiber composites for space applications: A mechanistic assessment
[NASA-TM-83631] 13 p1954 N84-22702

High Reynolds number tests of the cast 10-2/DOA2 transonic airfoil at ambient and cryogenic temperature conditions 14 p2096 N84-23575
Some optics alternatives for the FFS
[DE84-006255] 14 p2225 N84-24355
Design of a precision etalon position control system for a cryogenic spectrometer 15 p2348 N84-25093
Advanced components for spaceborne infrared astronomy
[NASA-CR-166585] 17 p2671 N84-27025
2.0 GHz to 4.0 GHz automated radiometer operation and service manual
[PB84-165158] 17 p2672 N84-27031
ONR (Office of Naval Research) Far East Scientific Bulletin. Volume 9, Number 1, January to March 1984
[AD-A140826] 17 p2770 N84-27589
Search for extended-lifetime optically excited laser media
[DE84-009795] 18 p2847 N84-28078
An analytical study of a locally cooled high Reynolds number simulation technique
[AD-A141062] 19 p3023 N84-29170
Influence of processing on the cryogenic mechanical properties of high strength high manganese stainless steel
[DE84-008242] 20 p3154 N84-30027
Development of a transimpedance amplifier for cryotemperatures, study — high sensitivity infrared detectors
[BMFT-FB-W-84-023] 21 p3407 N84-31610
Double arch mirror study. Part 2: Engineering analysis report
[NASA-CR-166589-PT-2] 21 p3412 N84-31635
Double arch mirror study. Part 3: Fabrication and test report
[NASA-CR-166589-PT-3] 21 p3412 N84-31636
Double arch mirror study
[NASA-CR-166589] 21 p3412 N84-31637
Study of size factor effect on low-cycle fatigue of aluminum alloys 23 p3706 N84-33492
Long-term creep of copper at cryogenic temperatures 23 p3716 N84-33559

CRYOSORPTION
U SORPTION

CRYOSTATS
On 3He bolometer systems
[NASA-CR-175325] 06 p0846 N84-15520
Superfluid Helium Cryostat for Space Utilization (CRHESUS): Development and test overview 10 p1442 N84-19420
A transportable cryostat
[NAL-TR-791] 12 p1818 N84-21850

CRYPTOGRAPHY
VLSI architectures for computing multiplications and inverses in GF(2-m) 04 p0518 N84-13406
On a secure public-key cryptosystem 08 p1224 N84-17997
Factorization using the quadratic sieve algorithm
[DE84-004140] 09 p1379 N84-19010
Security, a set of rules or an approach — cryptography
[NLR-MP-82047-U] 10 p1593 N84-20442
Cryptography in a communication system
[NLR-MP-82051-U] 12 p1808 N84-21787
Shannon: Theory and cryptography
[NLR-MP-82053-U] 12 p1808 N84-21788
Solving low density knapsacks
[DE84-006864] 22 p3641 N84-33085
Joint services electronics program
[AD-A144444] 24 p3898 N84-34684

CRYSTAL DEFECTS
NT CRYSTAL DISLOCATIONS
NT EDGE DISLOCATIONS
NT POINT DEFECTS
NT SCREW DISLOCATIONS
NT VACANCIES (CRYSTAL DEFECTS)
The effect of technological parameters on the heterogeneity of continuously cast slab
[BLL-M-35095-(5828.4)] 01 p0042 N84-10271
Report of the research assistance task force on beta-alumina for sodium-sulfur batteries
[DE83-013616] 01 p0074 N84-10486
Study of deep-level defects and transport properties vs. growth parameters and annealing conditions in III-IV compound semiconductors
[AD-A130776] 01 p0153 N84-11008
Evidence for stacking faults in multiaxial strained alpha-brass
[DE83-014118] 01 p0155 N84-11019
Atomic and electronic structure of defects in semiconductors
[AD-A131539] 02 p0299 N84-11960
Hamiltonian for antisotropic bodies with defects
[ISSN-0208-5658] 03 p0451 N84-12966
Characterization by X-ray topography of laser-induced damage in potassium dihydrogen phosphate crystals
[DE83-012045] 03 p0454 N84-12985
Defect interactions at high concentrations in solid oxide electrolytes
[DE83-016849] 03 p0455 N84-12992
Optical properties and correlation energy of defects in a-Ge:H
[DE83-016697] 03 p0455 N84-12993
Effects of compensation on light-induced metastable defects in aSi:H
[DE83-016696] 04 p0558 N84-13680
Fourth Europhysical Conference on Lattice Defects in Ionic Crystals
[AD-A132387] 04 p0612 N84-14039
Solid-State Division
[DE84-000296] 04 p0613 N84-14045
Radiation damage in silicon detectors
[DE84-001460] 04 p0614 N84-14056
Metallic microwave conductivity in shock-loaded rutile
[DE84-002174] 08 p1235 N84-18075
A study of phase transitions
[AD-A136449] 09 p1395 N84-19108
Melting of electrons on corrugated surfaces: Structural and dynamical properties in liquid and solid phases
[DE84-004023] 09 p1397 N84-19122
The effects of substrate surface treatments on the defect incorporation in hydride VPE grown InGaAs films
[AD-A137488] 10 p1588 N84-20408
Defect electrochemistry of oxide electrodes 11 p1742 N84-21364
Diffusional anomalies in deformed metals
[BLL-M-35490-(5828.4)] 12 p1795 N84-21708
High resolution TEM studies of defects near Si-SiO/sub 2 interface
[DE84-006562] 12 p1915 N84-22480
Observations of damage and transport of hydrogen in ion bombarded polycrystalline silicon
[DE84-008035] 14 p2243 N84-24466
The influence of lattice imperfections on the chemical reactivity of solids. The growth and perfection of TNT (trinitro-toluene) single crystals
[AD-A140408] 16 p2560 N84-26425
Role of charged state in build-up and annealing of deep centers in GaAs irradiated by protons 18 p2825 N84-27938
Structural characterization of solar silicon 18 p2939 N84-28640
A high-speed characterization technique for solar silicon 18 p2939 N84-28641
Defects in high speed growth of EFG silicon ribbon 18 p2939 N84-28642
Electrical and structural characterization of web dendrite crystals 18 p2939 N84-28643
X-ray topographic methods and application to analysis of electronic materials 18 p2940 N84-28645
Segregation of impurities in directionally solidified silicon 18 p2940 N84-28647
Effects of non-equilibrium solidification on the material properties of brick silicon for photovoltaics 18 p2940 N84-28648
The influence of lattice imperfections on the chemical reactivity of solids. The growth, perfection and defect properties of PETN (pentaerythritol tetranitrate) and RDX (cyclotrimethylene trinitramine) single crystals, part 1
[AD-A141271] 18 p2941 N84-28651
The influence of lattice imperfections on the chemical reactivity of solids. The growth, perfection and defect properties of PETN (pentaerythritol tetranitrate) and RDX (cyclotrimethylene trinitramine) single crystals, part 2
[AD-A141272] 18 p2941 N84-28652
Influence of oxygen on defect production in electron-irradiated, boron-doped silicon 19 p3045 N84-29320
Cell and defect behavior in lithium-counterdoped solar cells 19 p3046 N84-29322
Research directions and progress in SERI advanced high efficiency concepts program 19 p3046 N84-29325
High resolution cathodoluminescence of yellow and waterclear CVD polycrystalline ZnS
[AD-A141100] 19 p3110 N84-29759
Measurement techniques for high-power semiconductor materials and devices
[DE84-010425] 20 p3309 N84-31016
Defect production efficiencies in thermal neutron irradiated copper and molybdenum
[DE84-010993] 20 p3309 N84-31018
Studies of hydrogenated amorphous silicon
[DE84-011888] 21 p3505 N84-32211
Defect clusters and electrical properties in transition metal monoxides
[DE84-014851] 22 p3666 N84-33242
Interactions of twin boundaries and dislocations in solar silicon
[NASA-CR-173942] 23 p3789 N84-34032
Effect of annealing under thermodynamically stable conditions on the formation and transformation of structural defects in diamond monocrystals
[CSIR-TRANS-1737] 23 p3829 N84-34288
Effect of stacking sequence on fatigue life of composite materials 24 p3958 N84-35058

CRYSTAL DISLOCATIONS
NT EDGE DISLOCATIONS
NT SCREW DISLOCATIONS
Calculations of Channeling in Semiconductor Superlattices
[DE83-012040] 01 p0154 N84-11011
Microstructure and properties of TiB2 implanted with 1-MeV nickel
[DE83-014020] 01 p0154 N84-11012
Interaction of a dislocation with a crack
[AD-A131912] 03 p0389 N84-12536
Etching of defects on crystal surfaces 06 p0814 N84-15300
Observation of the effect of solute segregation on grain boundary structure
[DE84-002964] 07 p0975 N84-16319
A study on the tensile strength of ice as a function of grain size
[AD-A134889] 08 p1172 N84-17631
Structural unit/grain boundary dislocation model for grain boundary structure
[DE84-003167] 10 p1589 N84-20416
Study of the structure of grain boundaries in metals
[DE84-005493] 11 p1635 N84-20689
Study of low temperature plastic deformation mechaniams of alpha-titanium single crystals
[ONERA-NT-1983-7] 16 p2560 N84-26422
Injection currents in GaAs triple crystals 18 p2825 N84-27937

CRYSTAL FILTERS
Strategic blue-green communication filters
[AD-A142353] 20 p3173 N84-30151

CRYSTAL GROWTH
NT CZOCHRALSKI METHOD
NT DIRECTIONAL SOLIDIFICATION (CRYSTALS)
NT EPITAXY
NT LIQUID PHASE EPITAXY
NT MOLECULAR BEAM EPITAXY
NT VAPOR PHASE EPITAXY
Methods of improving the matrix dominated performance of composite structures: A technical review
[AD-A131257] 01 p0032 N84-10201
Large plate CdTe synthesis by sealed vessel transport
[AD-A130947] 01 p0153 N84-11005
Crystal growth and applications of mercuric iodide
[DE83-016731] 02 p0299 N84-11966
Materials processing in space program tasks-supplement
[NASA-TM-82548] 03 p0338 N84-12196
Large-area mercuric iodide photodectors
[DE83-013035] 03 p0441 N84-12898
Single Pb (1-x)Sn(x) Te crystal growth by vapor phase transport, with formation of a liquid/solid interface
[INPE-2811-PRE/369] 03 p0451 N84-12967
Method and apparatus for minimizing convection during crystal growth from solution
[NASA-CASE-NPO-15811-1] 03 p0451 N84-12968
The growth and measurement of single-crystal doped GGG (Gd3-xCexGa5-xZrx012)
[AD-A131875] 03 p0452 N84-12971
Growth and characterization of InP and InGaAs films using the hydride VPE technique
[AD-A131841] 03 p0452 N84-12973
A program of research on microfabrication techniques for VLSI magnetic devices
[AD-A131706] 03 p0452 N84-12978
The role of the tetrapropylammonium template in the synthesis of zeolite ZSM-5
[CSIR-CENG-413] 04 p0493 N84-13236
Preparation of infrared optic fibers using new materials
[AD-A132311] 04 p0604 N84-13968
West Europe report: Science and technology, no. 169
[JPRS-84936] 05 p0634 N84-14169
Danish crystal-growth experiment aboard Spacelab 05 p0634 N84-14171
Effect of hydrodynamic flow on the morphology of electrodeposited zinc
[DE84-001816] 05 p0651 N84-14281
Solidification rate influence on orientation and mechanical properties of MAR-M-246+Hf
[NASA-TM-82558] 05 p0653 N84-14290
Growth processes of snow
[AD-A133136] 06 p0866 N84-15639
Replicated CdTe substrates
[AD-A133114] 06 p0922 N84-15994
Manufacturing technology for high quality swept-culture growth quartz
[AD-A133500] 06 p0923 N84-15998

Characteristic morphological and frictional changes in sputtered MoS/sub 2 films
[NASA-TM-83585] 07 p0985 N84-16380
The control of float zone interfaces by the use of selected boundary conditions
[NASA-CR-170959] 07 p1079 N84-17017
Fabrication of Schottky barrier detectors on thin films of PbSSe
[AD-A134310] 07 p1080 N84-17020
Large plate CdTe synthesis by sealed vessel transport
[AD-A134586] 07 p1081 N84-17027
Performance and materials aspects of Ge:Be and Ge:Ga photoconductors for far-infrared detection
[DE84-003046] 07 p1081 N84-17029
Homogeneity and magnetic susceptibility in some substituted cadmium spinels
[AD-A135297] 08 p1131 N84-17357
Concept study of an automatic ellipsoidal mirror furnace facility, prephase A. Volume 1: Executive summary
[ERC-RP-200-DS-009-VOL-1] 08 p1141 N84-17423
Concept study of an automatic ellipsoidal mirror furnace facility, prephase A. Volume 2: Technical descriptions
[ERC-RP-200-DS-009-VOL-2] 08 p1141 N84-17424
Thermocapillary flows and their stability: Effects of surface layers and combination
[NASA-CR-170962] 08 p1155 N84-17522
Growth and evaluation of AgGaS2 and AgGaSe2 for infrared nonlinear applications
[NASA-CR-175185] 08 p1234 N84-18066
Ohmic contacts, irradiation effects, and thin film growth of GaAs and Al sub 1-x Ga sub x As
[NASA-CR-173257] 09 p1393 N84-19096
Research and crystal growth on high dielectric constant materials for mm wave applications
[AD-A136281] 09 p1394 N84-19102
Development of high purity IP crystals
[AD-A135937] 09 p1395 N84-19114
The preparation of BP single crystals by high pressure flux method
[NASA-TM-77389] 10 p1587 N84-20403
Growth of cadmium telluride by pulling under liquid encapsulation
[AD-A136842] 10 p1589 N84-20412
Terrestrial whisker growth experiments which anticipate some special effects of a space station environment
[NASA-CR-175440] 11 p1627 N84-20647
Development of the VLS process for SIC whisker growth
[DE84-004376] 11 p1628 N84-20652
Recent trends and theoretical background in sintering of silicon carbide ceramics
[NASA-TM-77378] 11 p1636 N84-20696
Scale prevention and removal by hydrodynamic fluid treatment 11 p1640 N84-20721
High resolution study of the relationship between misfit accommodation and growth of Cu sub 2-x in CdS
[DE84-004636] 11 p1673 N84-20920
Lyakhov and Aleksandrov work with Pion experiment on Salyut-7 12 p1774 N84-21567
Spectroscopic investigations of materials for tunable infrared lasers
[AD-A136324] 12 p1821 N84-21869
Study of defects produced by the growth, post treatment and fabrication of quartz
[AD-A136327] 12 p1914 N84-22471
Plasma-initiated laser deposition of polycrystalline and monocrystalline silicon films
[DE84-005527] 13 p1996 N84-22953
Ferroelectric tungsten bronze bulk crystals and epitaxial thin films for electro-optic device applications
[AD-A136693] 13 p2046 N84-23278
Fundamental studies of growth, doping and transformation in beta silicon carbide
[AD-A139179] 14 p2241 N84-24458
Impurity and defect interactions in GaAs
[AD-A139592] 14 p2243 N84-24465
Growth of crystals from solutions in low gravity (A0139A) 15 p2270 N84-24634
Application of the finite element method to study crystal growth 15 p2307 N84-24840
Study of defects produced by the growth, post treatment and fabrication of quartz
[AD-A139834] 15 p2413 N84-25485
Radial segregation induced by natural convection and melt/solid interface shape in vertical Bridgman growth
[NASA-CR-173627] 17 p2767 N84-27571
Fundamental studies of growth, doping and transformation in beta silicon carbide
[AD-A140924] 17 p2769 N84-27582
Crystal growth of artificial snow 18 p2799 N84-27763
Project Explorer: Get Away Special #007 — alloy solidification, seed germination, crystal growth, and radio transmission of payload data 18 p2800 N84-27773
Crystal growth of device quality GaAs in space
[NASA-CR-173749] 18 p2935 N84-28613
Proceedings of the Flat-Plate Solar Array Project Research Forum on the High-Speed Growth and Characterization of Crystals for Solar Cells
[NASA-CR-173746] 18 p2935 N84-28614
High-speed growth of silicon crystals: Flat-plate solar array perspective 18 p2935 N84-28615
Is there a speed limit? 18 p2935 N84-28616
Overview of characterization techniques for high speed crystal growth 18 p2936 N84-28619
Use of the Burton-Prim-Slichter equation at high growth rates 18 p2936 N84-28622
Models of rapid solidification 18 p2936 N84-28623
The effect of growth rate on interface morphology 18 p2936 N84-28624
Polycrystalline silicon sheets for solar cells by the improved spinning method 18 p2937 N84-28626
Orientation and morphology effects in rapid silicon sheet solidification 18 p2937 N84-28627
Silicon foils growth by interface-controlled crystallization 18 p2937 N84-28628
The S-Web technique for high-speed growth of Si sheets 18 p2937 N84-28629
Edge Stabilized Ribbon (ESR); stress, dislocation density and electronic performance 18 p2937 N84-28630
Mathematical modelling of high-speed ribbbon systems: A case study of edge-defined film-fed growth 18 p2938 N84-28632
An improved analysis of the thermal buckling of silicon sheet 18 p2938 N84-28633
The effect of creep on the residual stresses generated during silicon sheet growth 18 p2938 N84-28634
Experimental aspects of the study of stress generating mechanisms in silicon sheet growth 18 p2938 N84-28635
Control of thermal stress in dendritic web growth 18 p2938 N84-28636
High speed crystal growth by Q-switched laser melting 18 p2938 N84-28637
High-quality silicon films prepared by zone-melting recrystallization 18 p2939 N84-28638
A high-speed characterization technique for solar silicon 18 p2939 N84-28641
Defects in high speed growth of EFG silicon ribbon 18 p2939 N84-28642
Segregation of impurities in directionally solidified silicon 18 p2940 N84-28647
Determination of the optimum crystallization conditions of a high thermal expansion glass-ceramic
[DE84-009734] 19 p3000 N84-29014
Development of GaAs/Si and GaAs/Si monolithic structures for future space solar cells 19 p3046 N84-29327
Single crystal growth of ferroelectric tungsten bronze compositions for SAW applications
[AD-A141741] 19 p3110 N84-29763
Quartz growth on x-seeds
[AD-D011031] 19 p3112 N84-29770
Investigation of the crystallization kinetics of an incongruent melting salt hydrate under metastable conditions
[DE84-006666] 19 p3112 N84-29771
Transient and diffusion analysis of HgCdTe
[NASA-CR-162049] 20 p3152 N84-30015
Directional growth of pearlite in Fe-C eutectiod alloys
[DE84-007366] 20 p3156 N84-30042
Mathematical model for a simplified Bridgman-Stockbarger crystal growing system
[NASA-CR-171106] 21 p3504 N84-32202
X-ray diffraction study of the phase composition of the crystallization medium and inclusions in synthetic diamonds
[CSIR-TRANS-1723] 21 p3504 N84-32203
Superlattice structures grown by molecular beam epitaxy
[DE84-011288] 21 p3505 N84-32209
Cubic silicon nitride in iron-silicon steels
[BLL-M-35653-(5828.4)] 22 p3552 N84-32486
Containerless high purity pulling process and apparatus for glass fibers
[NASA-CASE-MFS-25905-2] 22 p3564 N84-32569
The octahedron-rhombododecahedron morphological series of synthetic diamond crystals
[CSIR-TRANS-1746] 22 p3661 N84-33205
EPR investigation of inclusions in cubic boron nitride crystals
[CSIR-TRANS-1752] 22 p3661 N84-33207
Manufacture and characterization of Pb(1-x)Sn(x)Te photoconductors
[INPE-3045-TDL/157] 22 p3662 N84-33212
Nucleation and growth of N- and P-type microcrystals in low-temperature glow-discharge deposited silicon films
[DE84-013122] 22 p3667 N84-33246
Research on phase transformations and non-equilibrium process
[DE84-014376] 23 p3720 N84-33580
Materials for high-temperature thermoelectric conversion
[NASA-CR-173969] 23 p3786 N84-34011
Large-area sheet task advanced dendritic web growth development
[NASA-CR-173958] 23 p3787 N84-34019
Interactions of twin boundaries and dislocations in solar silicon
[NASA-CR-173942] 23 p3789 N84-34032
Crystallization of cubic boron nitride in the presence of silicon
[CSIR-TRANS-1753] 23 p3829 N84-34289
Fundamentals of Alloy Solidification Applied to Industrial Processes
[NASA-CP-2337] 24 p3881 N84-34589
The potential for bulk undercooling as an industrial process 24 p3882 N84-34592
Process and apparatus for growing a crystal ribbon
[NASA-CASE-NPO-15629-1] 24 p3966 N84-35113
Research and crystal growth on high dielectric constant materials for mm wave applications
[AD-A144412] 24 p3967 N84-35119

CRYSTAL LATTICES

NT BODY CENTERED CUBIC LATTICES
NT CUBIC LATTICES
NT SUPERLATTICES

Calculation of critical temperatures and correlation parameters in binary alloys by the method of BBGKI equations
[BLL-M-35200-(5828.4)] 01 p0042 N84-10272
Calculation of short-range-order structures in Cu-14.5 percent (atom.) Al
[BLL-M-35115-(5828.4)] 01 p0152 N84-10997
Axial-channeling studies of strained layer superlattices
[DE83-013309] 01 p0154 N84-11010
Multiple-pulse laser-induced damage in crystaline and fused quartz
[DE83-015458] 01 p0154 N84-11015
Monte Carlo simulation of shock-induced lattice damage
[DE83-015189] 01 p0154 N84-11016
Lattice-parameter measurement in retained austenite by CBED
[DE83-013296] 02 p0195 N84-11267
Investigation of the statistical mechanics of linear polymers for various physical conditions
[JUEL-1832] 03 p0357 N84-12324
Microstructural origins of hot spots in RDX explosive and several reference inert materials
[AD-A132056] 03 p0357 N84-12325
Clustering and ordering in 3-5 alloys
[AD-A131785] 03 p0452 N84-12974
Commensurability, chaos, and the devil's staircase
[DE83-013280] 03 p0454 N84-12987
The relationship between the martensitic phase transition and the superconducting properties of A15 compounds
[DE83-018186] 04 p0529 N84-13477
Fourth Europhysical Conference on Lattice Defects in Ionic Crystals
[AD-A132387] 04 p0612 N84-14039
Ion channeling analysis of GaAs/sub x/P/sub 1-x/GaP strained-layer superlattices
[DE84-002536] 05 p0755 N84-14952
Energy release and transformation of shock-modified zirconia upon annealing to 1550 deg C
[DE83-017801] 05 p0755 N84-14954
Calculation of structures and magnetic orientations in solid alpha- and beta-O-2 as a function of pressure
[DE83-015215] 05 p0756 N84-14958
Lattice dynamics of the mixed-conducting intermetallic compound alpha-LiAl
[DE83-014334] 05 p0756 N84-14959
The heterogeneous nucleation of ice I 06 p0817 N84-15325
Raman measurements of the mobile cation vibrations in Na, K, Ag and Li (ALPHA)'-alumina
[DE83-015697] 06 p0924 N84-16005
Resonance between channeled particle wavelengths and periodicity of strained-layer superlattices
[DE84-002173] 07 p1081 N84-17032
Model compound studies of rigid rod aromatic heterocyclic polymer systems, the X-ray crystal structure of 2,6-diphenylbenzo (1,2-d; 5,4-d') diimidazole tetrahydrate, C2OH14N4. 4H2O, a model system for the study of polymer-water interaction in polybenzimidazoles
[AD-A135278] 08 p1137 N84-17393
The Cauchy and Born hypotheses for crystals
[AD-A136374] 09 p1395 N84-19107
Fundamental radiation damage processes in silicon
[AD-A136033] 09 p1396 N84-19119
Subbarrier absorption in a stationary superlattice
[NASA-TM-77387] 10 p1587 N84-20402

Dynamical friction in condensed matter
[DE84-004202] 10 p1589 N84-20415
Elastic theory of the defect solid solution
[DE84-001976] 10 p1590 N84-20418
Study of the structure of grain boundaries in metals
[DE84-005493] 11 p1635 N84-20689
Oscillatory length dependent conductivity in periodic and almost periodic crystals
[DE84-004364] 11 p1745 N84-21384
Inelastic strong interactions at high energies
[DE84-005666] 11 p1745 N84-21388
Dynamical threshold behavior of a sliding charge density wave
[DE84-004304] 11 p1745 N84-21389
Large aperture optical switching devices
[DE84-005126] 12 p1908 N84-22433
Band-overlap metallization of BaS, BaSe and BaTe
[NASA-CR-173396] 12 p1912 N84-22458
Superlattices and semiconductor/semiconductor interfaces
[AD-A138149] 12 p1913 N84-22465
Calculations of misfit dislocation and dangling bond densities in abrupt Hg sub (1-x) Cd sub x Te heterojunctions
[AD-A138241] 12 p1914 N84-22467
Detection of expansion at large angle grain boundaries using electron diffraction
[DE84-007889] 15 p2414 N84-25496
Surface chemistry of NiO (100)
[AD-A140233] 16 p2463 N84-25785
Impurity states in 2- and 3-dimensional disordered systems
[INPE-3066-PRE/483] 16 p2559 N84-26416
A cluster model for the determination of the state of impurities in crystal
[INPE-3048-PRE/471] 16 p2559 N84-26420
Structure of silver (100) and (111) single-crystal surfaces obtained by chemical polishing
[AD-A140148] 16 p2560 N84-26424
The influence of lattice imperfections on the chemical reactivity of solids. The growth and perfection of TNT (trinitro-toluene) single crystals
[AD-A140408] 16 p2560 N84-26425
Crystallogeometric analysis of compatibility of carbon-metal materials
[BLL-M-35559-(5828.4)] 17 p2767 N84-27570
Crystal-field splittings of the Hund ground states of ndN ions in S4 symmetry: Theory and application to the Ga-3+ Gd-3Sc-2Ga-3O-12
[AD-A140623] 17 p2768 N84-27574
Microcrystalline silicon growth for heterojunction solar cells
[NASA-CR-173750] 18 p2869 N84-28216
The influence of lattice imperfections on the chemical reactivity of solids. The growth, perfection and defect properties of PETN (pentaerythritol tetranitrate) and RDX (cyclotrimethylene trinitramine) single crystals, part 1
[AD-A141271] 18 p2941 N84-28651
The influence of lattice imperfections on the chemical reactivity of solids. The growth, perfection and defect properties of PETN (pentaerythritol tetranitrate) and RDX (cyclotrimethylene trinitramine) single crystals, part 2
[AD-A141272] 18 p2941 N84-28652
Defect interactions in GaAs single crystals
19 p3046 N84-29323
Development of a 30 percent efficient 3-junction monolithic cascade solar cell 19 p3047 N84-29328
Experimental investigation of 4-dimensional superspace crystals
[DE84-009239] 19 p3112 N84-29775
Computer simulation studies of sputtering and multimer formation from clean and oxygen reacted surfaces of titanium, vanadium and niobium
[AD-A141998] 20 p3308 N84-31009
Static frequency-temperature characteristics of doubly rotated quartz
[AD-A142456] 20 p3309 N84-31013
Renormalized action improvements
[DE84-011810] 20 p3311 N84-31028
In-situ TEM investigations of graphic-epitaxy and small particles
[NASA-CR-166503] 21 p3503 N84-32201
Effect of formation conditions and contact zone structure on adhesion strength of carbide forming metal coatings on diamond
[CSIR-TRANS-1735] 22 p3552 N84-32492
Inelastic strong interactions at high energies
[DE84-013647] 22 p3655 N84-33170
Crystallization of cubic boron nitride in the presence of silicon
[CSIR-TRANS-1753] 23 p3829 N84-34289

CRYSTAL OPTICS

X-ray streak crystal spectrography — spectra of laser produced plasmas
[DE83-015618] 02 p0225 N84-11473
Optical hysteresis and bistability in the wave-front conjugation by electrooptic crystals
14 p2234 N84-24406
Optically nonlinear materials for tunable UV-lasers
[BMFT-FB-T-84-133] 23 p3755 N84-33806

CRYSTAL OSCILLATORS

NT PIEZOELECTRIC CRYSTALS
Rubidium frequency standard study
[AD-A134713] 08 p1151 N84-17492
Low temperature quartz crystal oscillator fast warm-up SAW oscillator
[AD-A138024] 12 p1811 N84-21806
Single circuit board implementation of a Digitally Compensated SAW Oscillator (DCSO)
[AD-A138313] 12 p1812 N84-21812
Study of factors determining the radiation sensitivity of quartz crystal oscillators (A0189)
15 p2279 N84-24686
Narrow deviation voltage controlled crystal oscillator
[AD-D011033] 19 p3018 N84-29133
Research in monolithic, signal-processing circuits
[AD-A143204] 22 p3586 N84-32709

CRYSTAL STRUCTURE

Calculation of short-range-order structures in Cu-14.5 percent (atom.) Al
[BLL-M-35115-(5828.4)] 01 p0152 N84-10997
Calcium ions, stores, and modulators: What is the gravity receptor connection? 02 p0264 N84-11733
Influence of heat-treatment and physicochemical properties on the electrochemical oxidation of carbon blacks in phosphoric acid
[DE83-017744] 03 p0350 N84-12276
Snow characterization instruments
[AD-A131984] 03 p0411 N84-12687
New developments and opportunities for NMR in metal-hydrogen systems
[DE83-017696] 03 p0437 N84-12864
Review of some recent theoretical calculations of phase transitions and comparisons with experimental results
[DE83-015863] 03 p0453 N84-12983
X-ray and backscattering analysis of ion implantation phenomena in GaAs and related compounds
[AD-A132429] 04 p0612 N84-14038
Study of defects produced in tungsten by 800-MeV protons using field-ion microscopy
[DE84-001359] 04 p0613 N84-14048
Revision of the statistical mechanics of phonons to include phonon line widths
[DE83-017229] 04 p0614 N84-14051
Grain structure identification by ultrasound frequency averaging and deconvolution
[AD-A134054] 05 p0653 N84-14294
X-ray diffraction line-broadening studies on shock-loaded TiO-2 and Al2O-3
[DE83-016161] 05 p0755 N84-14955
Kinematics of the structure and morphology during surface reactions between transition metals and molecular hydrogen 06 p0816 N84-15317
Structural properties of epitaxial single layer metals on (110) B.C.C. metal substrates 06 p0817 N84-15326
Determination of ionization rates in the principal crystallographic directions in silicon
[AD-A133513] 06 p0923 N84-15999
Structural studies at elevated pressure and reduced temperatures using synchrotron radiation: Application to Ce.8La.1Th.1
[DE84-001793] 06 p0924 N84-16007
Angle-resolved photoemission extended fine structure
[DE84-002899] 08 p1236 N84-18080
Alloy development, processing and characterization of devitrified titanium base microcrystalline alloys
[AD-A136589] 09 p1282 N84-18374
Effect of electromagnetic stirring on weld pools
[AD-A136718] 10 p1460 N84-19532
Quantum chemical investigations of the mechanism of cationic polymerization and theoretical prediction of crystal densities and decomposition pathways of energetic molecules
[AD-A137271] 10 p1465 N84-19571
Subbarrier absorption in a stationary superlattice
[NASA-TM-77387] 10 p1587 N84-20402
The preparation of BP single crystals by high pressure flux method
[NASA-TM-77389] 10 p1587 N84-20403
Structural unit/grain boundary dislocation model for grain boundary structure
[DE84-003167] 10 p1589 N84-20416
Study of the structure of grain boundaries in metals
[DE84-005493] 11 p1635 N84-20689
Frictional and morphological properties of Au-MoS2 films sputtered from a compact target
[NASA-TM-83604] 11 p1664 N84-20858
Proceedings of the Conference on High Temperature Solid Oxide Electrolytes. Volume 2: Cation conductors
[BNL-51728-VOL-2] 11 p1742 N84-21368
Relation between structure and conductivity in the nasicon solid solution system 11 p1743 N84-21374
Properties of 3-dimensional energetic solids and molecular crystals
[AD-A137927] 11 p1744 N84-21382
Molecular dynamics studies of structural transformation in solids
[DE84-006409] 12 p1916 N84-22481
Characterization of single crystal Cu/sub 2S/CdS heterojunctions by hing resolution electron microscopy
[DE84-006761] 13 p2048 N84-23287
Geometric rationale for hydrogenated Pd3P/sub 1-x
[DE84-006737] 13 p2048 N84-23288
Theoretical predictions for the phase stability of dense binary mixtures 13 p2072 N84-23428
Electrochemical and spectroelectrochemical studies of some coordination compounds in high oxidation states
[DE84-006837] 14 p2123 N84-23727
A study of fatigue crack propagation in powder metallurgy hot isotatically pressed nickel-base alloy
[AD-A139290] 14 p2127 N84-23754
Temperature-compensated piezoelectric materials
[AD-A139279] 14 p2242 N84-24460
Standard X-ray diffraction power patterns: Section 20 - data for 71 substances
[PB84-155191] 14 p2244 N84-24475
Effect of preferred orientation on crack growth properties of Ti-6Al-4V alloys, part 1
[BR89100-PT-1] 15 p2299 N84-24802
Polymers in mechanochemical systems: Structure-property requirements
[DE84-007290] 15 p2413 N84-25490
Effect of substrate chemical pretreatment on the tribological properties of graphite films
[NASA-TM-83574] 16 p2470 N84-25831
Change in surface of molybdenum trioxide during its evaporation in an inert atmosphere
[BLL-M-35552-(5828.4)] 17 p2821 N84-26773
Characterization of crystallographic structure and internal stress of chromium coatings plated under current interruptions
[AD-A136118] 17 p2823 N84-26786
Noise of 1/f form in polycrystalline aluminum films
17 p2833 N84-26843
Low temperature structure and properties of graphite lamellar compounds
[AD-A140875] 17 p2768 N84-27579
Injection currents in GaAs triple crystals
18 p2825 N84-27937
Microcrystalline silicon growth for heterojunction solar cells
[NASA-CR-173751] 18 p2869 N84-28215
Developing new materials at elevated temperatures and pressures
[AD-A141235] 18 p2940 N84-28650
The influence of lattice imperfections on the chemical reactivity of solids. The growth, perfection and defect properties of PETN (pentaerythritol tetranitrate) and RDX (cyclotrimethylene trinitramine) single crystals, part 2
[AD-A141272] 18 p2941 N84-28652
Effect of refractory elements on the coherency strain and flow stress on nickel-base superalloys
[AD-A142220] 19 p2994 N84-28975
Determination of the optimum crystallization conditions of a high thermal expansion glass-ceramic
[DE84-009734] 19 p3000 N84-29014
Fabrication of biaxially oriented films via poly(p-phenylene teraphthalamide)/H2SO4 liquid crystalline dopes
[AD-A141755] 19 p3111 N84-29764
Rationalizing the hydrogen sites in Pd3P sub 1-xH sub y
[DE84-009159] 19 p3112 N84-29774
Macrocycles containing tin. Synthesis and structure of 1,10-Diphenyl-1,10-Distannabicycle (8.8.8)Hexacoeane
[AD-A142703] 20 p3145 N84-29966
Thin film synthesis of superconducting chemical compounds
[AD-A142541] 20 p3148 N84-29992
Thermomechanical processing and texture development in Ni-Cr-Mo and Mn-Mo-B armor steels
[AD-A142352] 20 p3153 N84-30020
Renormalized action improvements
[DE84-011810] 20 p3311 N84-31028
Statistical-mechanical study of polyvinylidene fluoride
[AD-A143040] 21 p3370 N84-31383
Microtopography of micro-diamonds from sedimentary covers in the southwestern part of the Eastern European platform and a possible genetic interpretation
[CSIR-TRANS-1726] 21 p3443 N84-31842
Effect of formation conditions and contact zone structure on adhesion strength of carbide forming metal coatings on diamond
[CSIR-TRANS-1735] 22 p3552 N84-32492

Method to reveal microstructures in single phase alloys
[AD-D011094] 22 p3555 N84-32512
Structure of polycrystalline boron nitride as determined by electron microscopic thin sections
[CSIR-TRANS-1738] 22 p3558 N84-32533
Characterization of erosion of metallic materials under cavitation attack in a mineral oil
[NASA-TP-2368] 22 p3603 N84-32825
Inelastic strong interactions at high energies
[DE84-013647] 22 p3655 N84-33170
The octahedron-rhombododecahedron morphological series of synthetic diamond crystals
[CSIR-TRANS-1746] 22 p3661 N84-33205
EPR investigation of inclusions in cubic boron nitride crystals
[CSIR-TRANS-1752] 22 p3661 N84-33207
New materials from high temperature synthesis
[DE84-014125] 22 p3664 N84-33231
Diamond surface: Atomic and electronic structure
[DE84-013518] 22 p3665 N84-33234
X-ray diffuse scattering 22 p3682 N84-33341
Effect of thermocyclic processing on phase composition and structure of VT22 alloy 23 p3709 N84-33511
On the hierarchy of interfacial dislocation structure
[DE84-014160] 23 p3719 N84-33573
Interactions of twin boundaries and dislocations in solar silicon
[NASA-CR-173942] 23 p3789 N84-34032
Application of protein crystals for structure and function analysis 23 p3804 N84-34119
USSR report: Materials science and metallurgy, no. 91
[JPRS-84129] 24 p3871 N84-34533
Structure and properties of granulated aluminum alloys containing transition metals 24 p3872 N84-34535
The bromination of pyrazabole
[AD-A144264] 24 p3880 N84-34581
The effects of impurities and additives on the growth of polycrystalline TNT
[MRL-R-916] 24 p3890 N84-34629

CRYSTAL SURFACES
Chemical modification of chemisorptive and catalytic properties of nickel
[DE84-002046] 05 p0655 N84-14308
Oxygen adsorption and initial oxidation of single crystal first row transition metal and alloy surfaces 06 p0816 N84-15316
On the face-shear vibrations of contoured crystal plates 10 p1511 N84-19891
Momentum dependent line shapes in photoemission
[AD-A137968] 12 p1913 N84-22461
Elementary processes in the catalytic combustion of methane (mechanism, intermediates and controlling reactions)
[PB84-181965] 17 p2620 N84-26770
Molecular beam epitaxy of HgCdTe
[AD-A141574] 19 p3110 N84-29761
Energy redistribution in diatomic molecules on surfaces
[DE84-011442] 21 p3505 N84-32213
Frequency synthesizer
[AD-D011203] 24 p3903 N84-34714

CRYSTALLINITY
Genera use of CBN in tool grinding: Technology and economics
[CSIR-TRANS-1688] 01 p0056 N84-10367
Heat capacity and thermodynamic properties of linear macromolecules 06 p0809 N84-15263
Production of cubic crystalline boron nitride
[BMFT-FB-T-84-025] 16 p2471 N84-25836
Crystalline-state extrusion of low density polyethylenes
[AD-A142017] 20 p3161 N84-30075
Characterization of block copolymers based on poly(3,3 -bis(ethoxymethyl)oxetane) and other novel polyethers
[AD-A142606] 20 p3162 N84-30081
Crystalline rocks of the Northeastern United States
[DE84-013673] 22 p3624 N84-32962

CRYSTALLITES
Trichite growth during oxidation of titanium and TA6V4 alloy by water vapor at high temperatures
[NASA-TM-76974] 06 p0805 N84-15248
Crystallite size and support effects on CO hydrogenation reactions
[DE84-012474] 21 p3360 N84-31314

CRYSTALLIZATION
NT DIRECTIONAL SOLIDIFICATION (CRYSTALS)
NT MELT SPINNING
NT RECRYSTALLIZATION
Origin of pyroelectricity in polyvinilydene fluoride
[DE83-015227] 02 p0201 N84-11311
Kinetics of solid-phase crystallization in ion-implanted and deposited amorphous-silicon films
[DE83-015499] 02 p0300 N84-11967
Predicting the base phase in the crystallization of eutectic alloys
[BLL-M-35347-(5828.4)] 04 p0497 N84-13262
Compositional segregation in unidirectionally solidified solid solution crystals 06 p0932 N84-16055
Feasibility study of an automatic protein growth facility using the retrievable carrier — EURECA project
[MBB-URV-131(82)] 09 p1263 N84-18246
Alloy development, processing and characterization of dwitrified titanium base microcrystalline alloys
[AD-A136589] 09 p1282 N84-18374
Mechanical contact induced transformation from the amorphous to the crystalline state in metallic glass
[NASA-TM-83563] 11 p1632 N84-20673
Innovative concepts for photovoltaic applications
[DE84-005247] 11 p1674 N84-20823
Development of the Earth's early crust: Implications from the Beartooth Mountains 11 p1679 N84-20959
The Lu-Hf evolution of KREEP 11 p1756 N84-21461
Segregation of Si and Sn to the Fe(100) surface in the Fe-6.2% Si-0.03% Sn alloy
[AD-A138154] 12 p1796 N84-21726
High pressure melting and crystalization of Nylon-11
[AD-A138858] 13 p1964 N84-22760
Grain boundary engineering of mechanical strength of silicon nitride (Si3N4)
[NASA-TM-77433] 14 p2119 N84-23699
Aluminum-air research and development program. Summary report for FY 1982
[DE84-008360] 14 p2142 N84-23848
Crystallization of the Duffek intrusion, Antarctica 14 p2161 N84-23944
Preparation of dispersion alloys: Component separation during cooling and solidification of dispersions of immiscible alloys 17 p2613 N84-26725
Anomalies in, and crystallization of supercooled water and aqueous solutions
[AD-A140582] 17 p2767 N84-27573
Overview of bulk silicon crystal growth — Czochralski and float zone systems 18 p2935 N84-28617
Crystallization of silicon ribbons 18 p2936 N84-28318
Transport processes in dendritic crystallization 18 p2936 N84-28621
Silicon foils growth by interface-controlled crystallization 18 p2937 N84-28628
Low angle silicon sheet growth: A review of progress, problems and promise 18 p2938 N84-28631
Origins of amorphous interstellar grains 18 p2949 N84-28701
Determination of the optimum crystallization conditions of a high thermal expansion glass-ceramic
[DE84-009734] 19 p3000 N84-29014
Investigation of the crystallization kinetics of an incongruent melting salt hydrate under metastable conditions
[DE84-008666] 19 p3112 N84-29771
Effect of crystallization of grain boundary phase on the high temperature strength of silicon nitride ceramics
[DE84-011786] 21 p3371 N84-31392
X-ray diffraction study of the phase composition of the crystallization medium and inclusions in synthetic diamonds
[CSIR-TRANS-1723] 21 p3504 N84-32203
Epitaxial crystallization in the Te-HgTe-CdTe system
[CSIR-TRANS-1745] 22 p3661 N84-33206
Protein Single Crystal Growth Under Low Gravity — conferences
[ESA-SP-1067] 23 p3804 N84-34118
Crystallization of the membrane protein rhodopsin 23 p3804 N84-34120
Protein single crystal growth under microgravity 23 p3805 N84-34124
Diffusion profiles in microgravity protein crystallization experiments — Spacelab 23 p3805 N84-34125
Crystallization of cubic boron nitride in the presence of silicon
[CSIR-TRANS-1753] 23 p3829 N84-34289
Method of directly crystallizing a (Sm + Ti):Fe = 1:5 compound
[AD-D011061] 23 p3830 N84-34291
USSR report: Materials science and metallurgy, no. 91
[JPRS-84129] 24 p3871 N84-34533
Structure and properties of granulated aluminum alloys containing transition metals 24 p3872 N84-34535

CRYSTALLOGRAPHY
Research on surface physics and crystallography at NSLS
[DE83-015035] 01 p0155 N84-11017
New materials for organic photovoltaic cells
[DE83-016845] 03 p0404 N84-12645
Surface segration and diffusion investigations by means of AES 06 p0816 N84-15319
Diffraction techniques
[AD-A133254] 06 p0914 N84-15944
Study of the structure of grain boundaries in metals
[DE84-005493] 11 p1635 N84-20889
Niobizing carbon steels
[BLL-M-35502-(5828.4)] 12 p1795 N84-21710
Environmental reactions and their effects on mechanical behavior of metallic materials
[DE84-005768] 12 p1799 N84-21734
Structural and electronic properties of artificial metallic superlattices
[DE84-002771] 12 p1915 N84-22477
Characterization of single crystal Cu/sub 2S/CdS heterojunctions by hing resolution electron microscopy
[DE84-006761] 13 p2048 N84-23287
Considerations in friction and wear 14 p2154 N84-23903
Characterization of crystallographic structure and internal stress of chromium coatings plated under current interruptions
[AD-A136118] 17 p2623 N84-26786
Injection currents in GaAs triple crystals 18 p2825 N84-27937
Real-time X-ray diffraction: Applications to materials characterization 18 p2939 N84-28644
Crystalline effects in Auger electron spectroscopy
[AERE-R-11051] 18 p2942 N84-28658
Determination of the optimum crystallization conditions of a high thermal expansion glass-ceramic
[DE84-009734] 19 p3000 N84-29014
Characterization of the microstructures of various materials
[AD-A141946] 20 p3152 N84-30017
Electromagnetic effects in strong field of single crystals 21 p3485 N84-32084
Numerical calculations of the function of the static receptivity of electrons in metals
[BLL-M-35640-(5828.4)] 22 p3551 N84-32480
Structure of polycrystalline boron nitride as determined by electron microscopic thin sections
[CSIR-TRANS-1738] 22 p3558 N84-32533
The octahedron-rhombododecahedron morphological series of synthetic diamond crystals
[CSIR-TRANS-1746] 22 p3661 N84-33205
Application of protein crystals for structure and function analysis 23 p3804 N84-34119

CRYSTALS
NT BICRYSTALS
NT BOULES
NT CRYSTAL OSCILLATORS
NT CRYSTALLITES
NT DENDRITIC CRYSTALS
NT DOPED CRYSTALS
NT IONIC CRYSTALS
NT LIQUID CRYSTALS
NT METAL CRYSTALS
NT MICROCRYSTALS
NT MIXED CRYSTALS
NT PIEZOELECTRIC CRYSTALS
NT POLYCRYSTALS
NT QUARTZ CRYSTALS
NT SINGLE CRYSTALS
NT WHISKERS (CRYSTALS)
Simulation of shock-induced energy flux in molecular solids
[DE84-001157] 04 p0613 N84-14047
Compositional segregation in unidirectionally solidified solid solution crystals 06 p0932 N84-16055
Investigation of high efficiency large TBW line acoustic wave convolvers
[AD-A135686] 09 p1387 N84-19056
Development of a high resolution cylindrical crystal spectrometer for line shape and spectral diagnostics of X-rays emitted from-hot-plasmas
[DE84-005664] 11 p1661 N84-20835
Electron microscopy at atomic resolution
[DE84-005546] 11 p1730 N84-21288
Structural phase transitions at high pressure: Quantum effects
[DE84-005724] 11 p1745 N84-21390
High pressure melting and crystallization of Nylon-11
[AD-A138858] 13 p1964 N84-22760
Precise measurement of refractive index and absorption coefficient of near millimeter wave and far infrared materials
[AD-A138856] 13 p2043 N84-23253
Holographic data storage crystals for LDEF (A0044) 15 p2277 N84-24677
Mathematical modelling of waveguiding techniques and electron transport, volume 2
[AD-A139604] 15 p2391 N84-25350
Mathematical modelling of waveguiding techniques and electron transport, volume 1
[AD-A139603] 15 p2397 N84-25382
Undoped buffer layer development
[AD-A139758] 15 p2413 N84-25484

Crystal growth of artificial snow
18 p2799 N84-27763
Workpiece positioning vise
[NASA-CASE-GSC-12762-1] 18 p2848 N84-28083
SNOW-ONE-A and B characterization measurements and data analysis
[AD-A141245] 18 p2890 N84-28345
Maximization of growth rates during Czochralski pulling 18 p2940 N84-28646
USSR report: Physics and mathematics
[JPRS-UPM-84-001] 20 p3285 N84-30862
Microspectrophotometer for crystal analysis by absorption reflectometry 20 p3289 N84-30883
Use of theory of systems with dispersed parameters to formulate deformation resistance equations in pressure working of metals: Communication 2
[BLL-M-35595-(5828.4)] 21 p3363 N84-31337
Geology hydrology and mineral resources of crystalline rock areas of Northeastern US
[DE84-013671] 21 p3432 N84-31774
USSR report: Physics and mathematics
[JPRS-UPM-84-003] 21 p3477 N84-32043
USSR report: Physics and mathematics
[JPRS-UPM-84-005] 21 p3484 N84-32081
Role of grain size on the brittle to ductile transition of the strongly ordered alloy Ni3Al
[DE84-014904] 22 p3556 N84-32519
Optical and electrical properties of organic dye crystals
[DE84-014930] 22 p3666 N84-33240
Monochromator for continuous spectrum X-ray radiation
[DE84-014239] 23 p3751 N84-33781
Thermoluminescence dosimeter
[DE84-014247] 23 p3751 N84-33782

CTD
U CHARGE TRANSFER DEVICES

CUBIC EQUATIONS
Nonexistance of finite dimensional filters for conditional statistics of the cubic sensor problem
[MC-BW-178/83] 07 p1067 N84-16931

CUBIC LATTICES
NT BODY CENTERED CUBIC LATTICES
Sound velocity anisotropy in cubic crystals
[NASA-CR-175344] 07 p1079 N84-17016
Grinding with Borazon: Progress and rewards
[CSIR-TRANS-1718] 21 p3375 N84-31420

CUES
Integrated Cuing Requirements (ICR) study: Feasibility analysis and demonstration study
[AD-A131039] 01 p0117 N84-10758
Integrated Cuing Requirements (ICR) study: Demonstration data base and users guide
[AD-A131119] 03 p0459 N84-13019
Visual cues in the simulation of low-level flight
[AD-A135461] 08 p1202 N84-17839
Effects of motion base and g-seat cueing of simulator pilot performance
[NASA-TP-2247] 09 p1255 N84-18189
A pilot/vehicle model analysis of the effects of motion cues on Harrier control tasks
[AD-A136291] 09 p1258 N84-18209
Learning in a probabilistic environment: A new approach, and some preliminary findings
[AD-A137031] 10 p1551 N84-20162
Equal weights, flat maxima, and trivial decisions
[AD-A138506] 12 p1895 N84-22342
Static versus dynamic presentation of visual cues in simulated low level flight
[AD-P003360] 18 p2913 N84-28473
Visual cueing effectiveness: Comparison of perception and flying performance
[AD-P003458] 21 p3510 N84-32235
DMA and CIG: A shotgun wedding
[AD-P003459] 21 p3510 N84-32236
Low-Altitude Database Development Evaluation and Research (LADDER)
[AD-P003468] 21 p3511 N84-32243

CUESTAS
U RIDGES

CUFFS
Prosthetic occlusive device for an internal passageway
[NASA-CASE-MFS-25740-1] 02 p0265 N84-11744

CULTIVATION
Suggestions concerning technological research and development for the purpose of industrial use of marine algae
[ISSN-0077-5606] 05 p0711 N84-14661

CULTURAL RESOURCES
Application of image processing technology to problems in manuscript encapsulation — Codex Hammer
[NASA-CR-173200] 07 p1007 N84-16528
Seismo-acoustic effects of sonic booms on archeological sites, Valentine Military Operations Area
[AD-A139561] 14 p2146 N84-23862

CULTURE TECHNIQUES
The growth of paracoccus halodenitrificans in a defined medium
[NASA-TM-84411] 01 p0111 N84-10724
Manufacturing technology for high quality swept-culture growth quartz
[AD-A133500] 06 p0923 N84-15998
Cells, embryos and development in space
09 p1356 N84-18862
Fluid mechanical aspects of cell culture
[NASA-CR-171749] 09 p1360 N84-18886
IPE 7 10 p1545 N84-20123
Allomonades: New group of vibrionaceae family microorganisms 17 p2742 N84-27410
Nutritional and environmental factors in ethanol fermentation by Saccharomyces cerevisiae
[DE84-009693] 20 p3167 N84-30110

CUMULATIVE DAMAGE
Characterization of cumulative damage in composites during service 01 p0033 N84-10210
The relationship of engineering properties to the molecular structure of polymeric materials: Damage accumulation processes
[AD-A138411] 12 p1801 N84-21745
Cumulative creep damage for polycarbonate and polysulfone
[NASA-CR-173433] 16 p2471 N84-25840

CUMULONIMBUS CLOUDS
NT ANVIL CLOUDS
Clouds with appearance like Cb-cloud on satellite imagery 24 p3921 N84-34818

CUMULUS CLOUDS
NT ANVIL CLOUDS
Study of burnout frame rockets. 1: Study of small rocket with burnout frame for weather modifications
[NAL-TR-764] 09 p1274 N84-18319
Determination of cloud parameters for NEROS 2 from digital satellite data
[PB84-162601] 14 p2182 N84-24075
Satellite observations of a monsoon depression
[NASA-CR-173590] 16 p2528 N84-26232
Interaction of the ABL with stratocumulus and cumulus cloud layers, appendix N 18 p2885 N84-28309
Some radar measurements in the North Adriatic Sea — clouds 18 p2888 N84-28330

CURIE TEMPERATURE
The theory of an active magnetic regenerative refrigerator 06 p0821 N84-15351

CURING
Ultraviolet curable resin system for rapid runway repair
[AD-A130364] 01 p0016 N84-10104
Curing of graphite/epoxy composites
01 p0030 N84-10186
Curing of graphite/epoxy composites
[AD-A130071] 01 p0030 N84-10191
The dicyandiamide cure of SP-250 epoxy resin accelerated by monuron
[AD-A129667] 01 p0050 N84-10320
Curing of epoxy resins with 1-DI(2-chloroethoxyphosphinyl) methyl-2,4 and -2,6-diaminobenzene
[NASA-TM-84350] 02 p0186 N84-11212
Fluoroether modified epoxy composites
[NASA-CASE-ARC-11418-1] 02 p0187 N84-11213
Processing science for AS/3501-6 carbon/epoxy composites
[AD-A132323] 04 p0506 N84-13316
Finite-element analysis of an epoxy-curing process
[DE84-000452] 04 p0507 N84-13323
Spectroscopic characterization of the cured state of acetylene-terminated resin
[AD-A133050] 05 p0660 N84-14336
Method and technique for installing light-weight, fragile, high-temperature fiber insulation
[NASA-CASE-MSC-16934-3] 07 p0966 N84-16262
Use of radiation curing for the production of coated fabrics, profiles, flocking — vulcanizing
[BMFT-FB-T-83-176] 07 p0980 N84-16350
Applications for anaerobic adhesives, with particular reference to the replacement of conventional locking devices 09 p1291 N84-18433
Evaluation of the epoxy system for the repair of fuel tank M109
[AD-A136923] 10 p1467 N84-19583
Qualification of a new MAPO source and ERL-510 curing agent for Minuteman Stage I UF-2121 liner
[AD-A137539] 11 p1626 N84-20640
On the effects of post cure cool down and environmental conditioning on residual stresses in composite laminates
12 p1788 N84-21663
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-3] 13 p1953 N84-22698
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-4] 13 p1953 N84-22699
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-5] 13 p1953 N84-22700
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-6] 13 p1953 N84-22701
Microwave curing of composites
13 p1955 N84-22708
The curing of a bisphenol A type epoxy resin with 1,8 Diamino-P-Menthane
[AD-A138977] 13 p1964 N84-22761
Phenoxy resins containing pendent ethynyl groups and cured resins therefrom
[NASA-CASE-LAR-13262-1] 15 p2300 N84-24805
Effects of curing stress on intralaminar cracking in graphite-epoxy laminates 15 p2308 N84-24846
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-1] 18 p2817 N84-27885
High-performance, low-energy-curing resins
[AD-A141524] 19 p2998 N84-29000
The role of boundary layer capacitance at blocking electrodes in the interpretation of dielectric cure data in adhesives
[AD-A142188] 19 p3016 N84-29121
Residual curing stress of carbon-resin composites
[ONERA-RT-6/3521-M] 20 p3147 N84-29980
Low cost thermal protection system processing
[AD-D011142] 22 p3544 N84-32434
Properties of UV-cured polyurethane acrylates: Effect of polyol type and molecular weight
[AD-A143176] 22 p3559 N84-32537
Properties of UV-curable polyurethane acrylates: Effect of reactive diluent
[AD-A143241] 22 p3559 N84-32540
Cure reactions, network structure and mechanical response of diaminodiphenyl sulfone cured tetraglycidyl 4,4'diaminodiphenyl methane
[DE84-012607] 22 p3561 N84-32548

CURL (VECTORS)
NT VORTICITY

CURRENT AMPLIFIERS
NT PHOTOMULTIPLIER TUBES
Evaluation of the variable reluctance transducer/carrier amplifier method of measuring low pneumatic pressures in aerodynamic and propulsion testing
[AD-A130695] 01 p0084 N84-10546
Tuned analog network
[NASA-CASE-GSC-12650-1] 05 p0673 N84-14421
A dc to dc converter
[NASA-CASE-MFS-25430-1] 07 p0995 N84-16453
Analysis of the performance of the free electron bolometer
[AD-A134139] 07 p1008 N84-16533

CURRENT CONVERTERS (AC TO DC)
Development of a new charger system
[BMFT-FB-T-83-305] 15 p2328 N84-24977
Operating modes of superconducting current converters in service 21 p3379 N84-31445

CURRENT DENSITY
Design conditions for fail safe quenching of a high current density superconducting solenoid with a shorted secondary circuit
[LBL-14859] 01 p0069 N84-10449
Design, construction and long life endurance testing of cathode assemblies for use in microwave high-power transmitting tubes
[NASA-CR-168112] 01 p0069 N84-10451
An evaluation of the effect of cell voltage and termination current on barrier anodic Al2O3 film formation
[DE83-013961] 02 p0195 N84-11266
Measurements of the emittance and current density profile of the beam produced by the ATA injector
[DE83-016522] 03 p0434 N84-12848
Diagnosing the ion beam on the applied-B diode
[DE83-017822] 03 p0447 N84-12943
Development of multicomponent transport theory and transport data for membranes in concentrated electrolytes
[DE84-001846] 04 p0495 N84-13249
Electrical and thermal modeling of railguns
[DE84-001361] 04 p0515 N84-13387
Thermionic cathode, MITL (Magnetically Insulated Transmission Line) and auxiliary coils systems investigations for the modified betatron
[AD-A133757] 05 p0744 N84-14887
Extraction of volume produced H(-) or D(-) ions from a sheet plasma I
[IPPJ-845] 06 p0919 N84-15974
Superconducting properties of Nb3Sn multifilamentary wires fabricated by internal tin process
[DE83-018189] 06 p0925 N84-16011
Time-resolved beam-profile measurements on the Experimental Test Accelerator (ETA)
[DE84-002453] 07 p1072 N84-16969

Transient current density waveforms on a perfectly conducting sphere
[AD-A135862] 09 p1300 N84-18500
The possibilities of application of superconductors in electronics
[AD-A136488] 09 p1307 N84-18543
Detection and performance of defects in aluminum coated steels
[DE84-004175] 10 p1461 N84-19545
Low cost, sprayed CuInSe2 solar cell research
[DE84-006339] 10 p1530 N84-20023
Electrical design of a high current density air-core reversed-field pinch ZTP
[DE84-004321] 10 p1588 N84-20395
Test bed ion engine development
[NASA-CR-174623] 11 p1624 N84-20832
A beam current density monitor for intense electron beams
[AD-A137146] 11 p1660 N84-20832
Use of single point contact electrodes to understand porous electrode behavior on solid electrolytes
11 p1742 N84-21365
Field generated within the SSC magnets due to persistent currents in the superconductor
[DE84-006629] 12 p1915 N84-22476
The importance of neutrals, transient effects, and the Earth's magnetic field on sheath structure
[AD-P002119] 16 p2524 N84-26205
Summary of experimental results
[AD-P002126] 16 p2525 N84-26212
Corrosion of aluminium caused by alternating current
[BLL-ERA-TRANS-2920] 17 p2621 N84-26776
Process Research On Polycrystalline Silicon Material (PROPSM) — flat plate solar array project
[NASA-CR-173754] 18 p2869 N84-28213
Metal dissolution kinetics in halide melts
[DE84-004030] 19 p2995 N84-28977
Plasma studies on ion diodes
[AD-A142183] 19 p3107 N84-29743
Mixed mode operation in CTX
[DE84-007493] 20 p3304 N84-30985
The effect of current density on anode depolarization economics
[DE84-010465] 21 p3392 N84-31524
Acceleration of high charge density electron beams in the SLAC linac
[DE84-012415] 21 p3497 N84-32161
Critical current density of bronze-processed multifilimentary Nb-3Sn wires with magnesium addition to the matrix
[DE84-014579] 23 p3719 N84-33576
High rate discharge studies of Li/SO2 batteries
23 p3737 N84-33680
High-current betatron, phase 1
[AD-A143748] 23 p3824 N84-34252
Anodic dissolution of transition metal carbides at high current density 24 p3877 N84-34566
Maxwell currents beneath thunderstorms
24 p3926 N84-34852

CURRENT DISTRIBUTION
Numerical modeling techniques for half-space (ground) problems 03 p0365 N84-12374
A programmable controller with overcurrent latch for constant primary peak current in capacitor-charging FET switcher for Nova
[DE83-018184] 04 p0542 N84-13569
Computations of the current profile influence on tearing instability
[NASA-TM-77285] 06 p0920 N84-15981
Thermoscopic study of diffraction current distribution
22 p3565 N84-32583
Theoretical and experimental studies of error in square-law detector circuits
[NASA-TM-86307] 23 p3741 N84-33714

CURRENT REGULATORS
Derivation of linearized transfer functions for switching-mode regulations. Phase A: Current step-up and voltage step-up converters
[NASA-CR-175219] 10 p1485 N84-19707
Input filter compensation for switching regulators
[NASA-CR-173557] 15 p2327 N84-24975

CURRENT SHEETS
Anomalous transport in current sheets
[AD-A136030] 09 p1378 N84-19002
Large-scale, near-Earth, magnetic fields from external sources and the corresponding induced internal field
[NASA-TM-85012] 24 p3918 N84-34807

CURRENT STABILIZERS
U CURRENT REGULATORS

CURRENTS (OCEANOGRAPHY)
U WATER CURRENTS

CURTAINS
Honeycomb insulating shade
[DE84-001270] 09 p1276 N84-18335
Passive Arm Restraint Curtain (PARC) for Navy aircraft ejection seats
[AD-A139435] 14 p2103 N84-23615

CURTISS-WRIGHT MILITARY AIRCRAFT
U MILITARY AIRCRAFT

CURVATURE
A conformal mapping technique for nonsymmetric potential flows with separation 02 p0173 N84-11138
Gravitational perturbation of the hydrogen spectrum
02 p0251 N84-11648
Forecasting tropical cyclone recurvature with upper tropospheric winds
[NASA-TM-85114] 02 p0253 N84-11659
Turbulent flow in passage around a 180 deg bend; an experimental and numerical study
[AD-A132845] 05 p0681 N84-14475
An integrated system for shells with discontinuities: Geometric modelling and finite element analysis
06 p0656 N84-15576
Experimental designs for quantal response models
[AD-A133416] 06 p0901 N84-15851
Efficient model-based sequential designs for sensitivity experiments
[AD-A134573] 07 p1064 N84-16899
An analytical study of cylindrical- and spherical-rectangular microstrip antennas
08 p1142 N84-17428
Intrinsic adaptive mesh techniques
[NASA-CR-175375] 08 p1217 N84-17941
Experimental investigation of turbulent heat transfer in straight and curved rectangular ducts
[AD-A136239] 09 p1313 N84-18581
Structural efficiency studies of corrugated compression panels with curved caps and beaded webs
[NASA-TP-2272] 09 p1329 N84-18675
The role of gravity in leaf blade curvatures
09 p1357 N84-18865
Potential flow through a cascade of alternately displaced circular bodies: The rod-wall wind tunnel boundary conditions
[NASA-TM-85750] 11 p1601 N84-20487
JPL tests of a LaJet concentrator facet
[NASA-CR-173470] 12 p1841 N84-22004
Grid-based line drawing quantization
[AD-A138194] 12 p1881 N84-22261
Some links between turtle geometry and analytic geometry
[AD-A138319] 12 p1882 N84-22269
Film cooling on a gas turbine blade near the end wall
[AD-A136794] 13 p1933 N84-22569
A universal 3-dimensional wall pressure correction method for closed rectangular subsonic wind tunnel test sections (displacement, downwash, streamline curvature)
[ESA-TT-800] 13 p1935 N84-22588
NASA-FAA helicopter Microwave Landing System curved path flight test
[NASA-TM-85933] 14 p2103 N84-23617
The coupling of tracked and interior waves in a front tracking scheme
[AD-P002944] 14 p2197 N84-24184
On a theorem of Szegoe on univalent convex maps of the unit circle
[AD-A139256] 14 p2212 N84-24286
Two methods for calculating the physical optics field
[AD-A139116] 14 p2224 N84-24347
Development of temperature-, velocity- and concentration-profiles in a curved combustor
15 p2292 N84-24757
A rigid embedding of the closed Friedmann manifold
17 p2757 N84-27502
A direct approach to the Villarceau circles of a torus
[AD-A141653] 19 p3086 N84-29587
The curvature primal sketch
[AD-A142460] 20 p3281 N84-30627
Developing turbulent flow in strongly curved passages of square and circular cross-section
[AD-A143279] 22 p3593 N84-32755
Numerical solutions for cavitating flow of a fluid with surface tension past a curved obstacle
[AD-A144695] 24 p3901 N84-34704

CURVE FITTING
Effects of impact acceleration on somatosensory evoked potentials
[AD-A130280] 01 p0113 N84-10734
Curve fit technique for a smooth curve using Gaussian sections
[AD-A132499] 04 p0589 N84-13893
On the fitting of Pearson curves to sums of independent random variables
[AD-A133153] 06 p0900 N84-15844
Projection pursuit regression: Some mathematics
[AD-A134544] 07 p1063 N84-16894
An automatic fitting procedure for comparing observed and computed spectral distributions — stellar spectra
09 p1408 N84-19200
Predictions: Also an astronomical tool
09 p1410 N84-19219
Non-linear multidimensional models, least squares and reduced residuals
[AD-P002950] 14 p2198 N84-24190
Spectral moment estimation in MST radars
17 p2896 N84-27173
The computation of an astrogravimetric geoid by adjustment 17 p2727 N84-27357
Photographic characteristics of polymer composite including complex with charge transfer
18 p2826 N84-27944
An application of the H-function to curve-fitting and density estimation
[AD-A141045] 18 p2925 N84-28553
Application of an adaptive noise technique on state estimation to data smoothing
[INPE-3187-PRE/552] 21 p3465 N84-31963
The prediction of acoustical particle motion using an efficient polynomial curve fit procedure
[NASA-CR-173915] 22 p3651 N84-33145
The effect of dimensionality on solar spectrum curves
[DE84-014136] 22 p3680 N84-33327
Rational-spline approximation with automatic tension adjustment
[NASA-TP-2366] 23 p3817 N84-34204

CURVED BEAMS
Dynamic behavior of composite layered beams by the finite element method 10 p1511 N84-19892

CURVED PANELS
Large deformation behavior of long shallow cylindrical composite panels
[NASA-CR-173286] 13 p2000 N84-22975

CURVED SURFACES
U CONTOURS
U SHAPES
U SURFACES

CURVES
Bimetal and multimetal galvanic corrosion prediction using long- and short-term polarization curves
[AD-A139893] 15 p2297 N84-24786

CURVES (GEOMETRY)
NT S CURVES
An umful of blinding functions
12 p1870 N84-22184
Intersection of parametric surfaces using lookup tables 12 p1870 N84-22185
The representation of manipulable solid objects in a relational database 12 p1871 N84-22190
Studies of the behavior of a snow cover on mountain slope. 12: Curves Csubh and Csubv in a wedge-shaped snow cover 15 p2353 N84-25115
Studies of the behavior of a snow cover on mountain slope. 13: Curves Csubh and Csubv in a circular snow cover 15 p2353 N84-25116
Application of regular associated solution model to the liquidus curves of the Sn-Te and Sn-SnS systems
15 p2402 N84-25418
Conformal mapping and almost Lipschitzian curves
22 p3635 N84-33040
Multiparameter maximal functions along dilation-invariant hypersurfaces
[CTH-MATH-1984-11] 23 p3819 N84-34215

CURVILINEAR COORDINATES
U SPHERICAL COORDINATES

CUSHIONS
Optimization of aircraft seat cushion fire blocking layers
[NASA-TM-85430] 01 p0006 N84-10037
Technical information concerning rubber cushion presses 02 p0206 N84-11346
Correlation of laboratory-scale fire test methods for seat blocking layer materials with large-scale test results
[AD-A131666] 03 p0328 N84-12138
Evaluation of 'Sorbothane' cushioning material
[AD-A139079] 13 p1964 N84-22763
Fire blocking systems for aircraft seat cushions
[NASA-CASE-ARC-11423-1] 23 p3691 N84-33394

CUSPS
Conceptual design of the RFC reactor
[IPPJ-659] 11 p1733 N84-21304

CUT-OUTS
U OPENINGS

CUTTERS
NT BLADES (CUTTERS)
NT DRILL BITS
NT SAWS
A review of the use of wear-resistant coatings in the cutting-tool industry
[NASA-TM-83512] 02 p0199 N84-11295
Rapid runway repair program subtask 1.07 - rapid concrete cutting
[AD-A131771] 03 p0338 N84-12195
Aspects of the grinding process
[CSIR-TRANS-1694] 08 p1140 N84-17416

Fourth Seminar on Efficient Metal Forming and Machining
[ISBN-0-7988-2556-1] 09 p1292 N84-18438
Thermal properties of coating materials and their effect on the efficiency of coated cutting tools
09 p1292 N84-18440
Economic roughing and finish milling with end mills made of high speed tool steel class HSSE: High cobalt alloyed 09 p1292 N84-18442
High speed steel special cutting tools: Their design and application 09 p1292 N84-18443
Broaching today 09 p1293 N84-18450
Advanced finishing methods for spiral bevel and hypoid gears 09 p1293 N84-18451
Tubing and cable cutting tool
[NASA-CASE-LAR-12786-1] 18 p2848 N84-28085

CUTTING
NT LASER CUTTING
NT METAL CUTTING
NT MILLING (MACHINING)
NT PLANING
NT SLICING
NT SPARK MACHINING
Rapid runway repair program subtask 1.07 - rapid concrete cutting
[AD-A131771] 03 p0338 N84-12195
An evaluation of automated control of the oxyfuel cutting process for M1 vehicle fabrication
[AD-A134073] 05 p0688 N84-14520
JBFA - buoyant flight
[NASA-TM-76815] 07 p0946 N84-16136
Planning and implementation of automated cutting in the precision engineering industry
[MBB-UA-772-83-O] 14 p2135 N84-23794
Tubing and cable cutting tool
[NASA-CASE-LAR-12786-1] 18 p2848 N84-28085
Precision cutting of millimeter wave ferrite materials
[AD-D011179] 24 p3891 N84-34639

CV-990 AIRCRAFT
Passive microwave characteristics of the Bering Sea ice cover during Marginal Ice Zone Experiment (MIZEX) West 23 p3773 N84-33917

CW RADAR
U CONTINUOUS WAVE RADAR

CYANIDE EMISSION
U CN EMISSION

CYANIDES
Physiological function of combustion gas and especially that of CN 04 p0514 N84-13376
Journal of Research of the National Bureau of Standards. Volume 88, Number 3, May-June 1983
[PB84-115799] 08 p1127 N84-17328

CYANO COMPOUNDS
NT ISOCYANATES
Process for preparing phthalocyanine polymers
[NASA-CASE-ARC-11511-1] 07 p0966 N84-16259

CYANOPHYTA
U BLUE GREEN ALGAE

CYBERNETICS
A learning adaptive controller
10 p1568 N84-20272
An N to the 1.618th power lower bound on the time to simulate one queue or two pushdown stores by one tape
[MC-IW-245/83] 13 p2030 N84-23161
An efficient method for the conversion to residue number systems and its application to convolutions
[FUB-53-1982] 14 p2220 N84-24319
Edge analyzing properties of center/surround response functions in cybernetic vision
[NASA-TM-85809] 16 p2484 N84-25927
Parallelism in manipulator dynamics. Revision
[AD-A142515] 20 p3196 N84-30299
USSR report: Cybernetics, computers and automation technology
[JPRS-UCC-84-001] 24 p3940 N84-34942
Status of scientific research in field of computer technology in country's vuzes 24 p3940 N84-34943

CYCLES
NT ACTIVITY CYCLES (BIOLOGY)
NT BRAYTON CYCLE
NT CARBON CYCLE
NT CARNOT CYCLE
NT OTTO CYCLE
NT RANKINE CYCLE
NT SOLAR CYCLES
NT STIRLING CYCLE
NT STRESS CYCLES
NT SUNSPOT CYCLE
NT THERMODYNAMIC CYCLES
NT WORK-REST CYCLE
Periods of activity cycles in late-type stars
[NASA-TM-77297] 07 p1091 N84-17094
Crossed molecular beam studies of the reactions of oxygen and fluorine atoms
[AD-A135415] 08 p1124 N84-17309
Self-oscillations and predictability in climate dynamics
[AERONOMICA-ACTA-A-278-1984] 16 p2527 N84-26226
Treatment of walking as controllable self-excited oscillations 17 p2649 N84-26942
Dependence of crustal structure of eastern Pacific Ocean on its age 20 p3223 N84-30483
Developments of research on prediction of earthquakes, tsunami and volcanic eruptions in Far East
20 p3224 N84-30485
Global Biology Research Program: Biogeochemical Processes in Wetlands
[NASA-CP-2316] 20 p3256 N84-30665
Executive summary: Background
20 p3256 N84-30666
Geographic distribution of wetland parameters: The foundation of a data base 20 p3256 N84-30667
A framework for wetlands research: Development of a wetlands data base 20 p3256 N84-30668

CYCLIC ACCELERATORS
NT BETATRONS
NT STORAGE RINGS (PARTICLE ACCELERATORS)
NT SYNCHROTRONS
Optimum cyclic redundancy codes for noisier channels
10 p1475 N84-19638
Dual aperture dipole magnet with second harmonic component
[DE84-011305] 20 p3285 N84-30656

CYCLIC COMPOUNDS
NT CYCLIC HYDROCARBONS
Studies of polymer-bound macrocyclic polytertiary phosphines
[AD-A135718] 09 p1288 N84-18408
Polymerizations of acetylenes and cyclic olefins induced by metal-carbynes
[AD-A137090] 10 p1468 N84-19589
Organophosphazenes: 17: The synthesis of trimethylsilylacetylene and terminal acetylene derivatives of hexfluorocyclotriphosphazene
[AD-A141429] 19 p2983 N84-28906
Macrocycles containing tin. Synthesis and structure of 1,10-Diphenyl-1,10-Distannabicycle (8.8.8)Hexacosane
[AD-A142703] 20 p3145 N84-29966

CYCLIC HYDROCARBONS
NT NAPHTHENES
Synthesis of energetic materials
[AD-A130974] 02 p0200 N84-11299
Fates and biological effects of polycyclic aromatic hydrocarbons in aquatic systems
[PB83-250191] 04 p0561 N84-13698
Phototransformation of polycyclic aromatic hydrocarbons into stable, mutagenic components
[DE84-001747] 07 p0966 N84-16261
Analysis of polynuclear aromatic hydrocarbons in particulate matter by luminescence techniques
[PB84-181882] 21 p3363 N84-31333
The structural chemistry of energetic compounds
[AD-A143955] 23 p3822 N84-34237

CYCLIC LOADS
Cumulative damage in components of steel structures under cyclic inelastic loading 03 p0391 N84-12550
Optimization of structures subjected to periodic loads
04 p0547 N84-13605
An assessment of some methods for calculating wave loading
[NMI-R-162] 05 p0694 N84-14555
The effect of superposing ripple loading of maneuver load cycles
[AD-A132653] 06 p0786 N84-15148
Fatigue damage-strength relationships in composite laminates. Volume 1
[AD-A133485] 06 p0799 N84-15206
Recommendations for future research on fracture mechanics life technology
[NASA-CR-170904] 08 p1169 N84-17615
Inelastic deformation of metals and structures under dynamic and quasi-static cyclic loading
[AD-A136022] 09 p1332 N84-18700
Fatigue crack growth in aluminum alloy sheet material under constant amplitude and simplified flight simulation loading
[VTH-LR-381] 10 p1464 N84-19561
Development of a simplified procedure for cyclic structural analysis
[NASA-TP-2243] 11 p1667 N84-20878
Cyclic deformation and fatigue of monocrystalline Ni-base superalloys
[AD-A138052] 12 p1797 N84-21724
The cyclic behaviour of a powder Ni-base superalloy — aircraft engines
[PNR-90182] 13 p1961 N84-22743
Stress distribution in a cylindrical bar subjected to cyclic torsional loading
[AD-A139413] 14 p2158 N84-23929
Stress distribution in a cylindrical bar subjected to cyclic torsional loading
[AD-P002957] 14 p2199 N84-24197
Results of a study of residual stresses and fatigue crack growth in lugs with expanded holes
[NLR-MP-83024-U] 15 p2349 N84-25100
Creep-low cycle fatigue interaction of 2 1/4 Cr 1 Mo steel at high temperature 16 p2501 N84-26051
Experimental verification of constitutive equations for plasticity under biaxial, cyclic and nonradial loading conditions — of austenitic steel
[REPT-5011202-81-1] 17 p2625 N84-26798
Stability of fuses under cyclic load
17 p2639 N84-26862
Emission effects of memory in rocks
17 p2705 N84-27227
The determination of the Bodner material coefficients for indium 718 and their effects on cyclic loading
[AD-A141174] 18 p2814 N84-27861
Failure by creep cracking and creep fatigue interaction in nickel base superalloys
[AD-A141112] 19 p2993 N84-28967
Mode 2 fatigue crack growth specimen development
[NASA-TM-83722] 19 p3034 N84-29248
Elastic-plastic deformation of pulse-loaded structures
[AD-A142350] 20 p3202 N84-30339
Interactive computer analysis methods for predicting the inelastic cyclic behaviour of structural sections
[PB84-192012] 20 p3205 N84-30358
The changes in the compressive and tensile yield strengths during uniaxial cyclic loading
21 p3418 N84-31674
Cyclic torsion testing
[NASA-TM-83756] 21 p3419 N84-31687
Creep-fatigue interactions in advanced eutectic superalloys
[AD-A142872] 21 p3422 N84-31705
Interdependence of equivalent steady stress, crack growth and failure on sequence and amplitude of irregular loading
[AD-A142951] 21 p3422 N84-31707
Simplified approach to two-dimensional cyclic plasticity problems
[CETIM-11-B-110] 21 p3424 N84-31718
Predicting fatigue durability of duralumin specimens
24 p3874 N84-34550
A simulation process for determining reliability of cyclic random loaded structures
[AD-P003849] 24 p3939 N84-34936

CYCLING
U CYCLES

CYCLOGENESIS
Atlas of Northern Hemisphere extratropical cyclone activity, 1958 - 1977
[PB83-225722] 01 p0110 N84-10712
Quasi-Lagrangian diagnostics applied to an extratropical explosive cyclogenesis in the North Pacific
[AD-A132213] 04 p0568 N84-13741
Baroclinic and barotropic instability with cumulus heating and tropical cyclogenesis 05 p0710 N84-14656
A comparison of NMC models (1977) on precipitation forecasts for east coast cyclogenesis
06 p0879 N84-15720
A quasi-lagrangian diagnostics investigation of rapid cyclogenesis in a polar air stream
[AD-A136844] 10 p1540 N84-20091
Mariners Weather Log, Volume 28, Number 1, January-February-March 1984
[PB84-175710] 17 p2735 N84-27385
Alpine cyclogenesis as a complex problem
18 p2889 N84-28335
Upper air sounding subprogram of Alpine Experiment (ALPEX) 18 p2889 N84-28337

CYCLOHEXANE
Diffusion and sorption of cyclohexane vapor in SBS and SBR copolymers
[AD-A132397] 04 p0506 N84-13315
Effects of cyclohexyl groups and ortho-substituents on the viscosity of ester liquid crystal components
[AD-A143028] 21 p3504 N84-32205

CYCLONES
NT CYCLOGENESIS
NT HURRICANES
NT TYPHOONS
Forecast verification and reconnaissance data for Southern Hemisphere tropical cyclones
[AD-A130187] 01 p0108 N84-10700
On the physical processes responsible for tropical cyclone motion 02 p0252 N84-11648
Forecasting tropical cyclone recurvature with upper tropospheric winds
[NASA-TM-85114] 02 p0253 N84-11659
Precipitation development in midlatitude cyclones: A study of cloud structures and processes
04 p0566 N84-13728

Quasi-Lagrangian diagnostics applied to an extratropical explosive cyclogenesis in the North Pacific
[AD-A132213] 04 p0566 N84-13741
Organized mirocscale structure of the windstorm of 12 May 1983 in Utrecht and vicinity
[KNMI-TR-36] 05 p0709 N84-14647
Tropical cyclones in the Australian/southwest Pacific region 05 p0710 N84-14654
Ocean temperature changes induced by tropical cyclones 06 p0879 N84-15722
Tropical cyclone wind probability forecasting for the southern hemisphere (WINDPSH)
[AD-A136146] 09 p1350 N84-18817
Potential impact of remote sensing data on sea-state analysis and prediction
[E84-10083] 10 p1520 N84-19954
An evaluation of 700 mb aircraft reconnaissance data for selected Northwest Pacific tropical cyclones
[AD-A137362] 10 p1540 N84-20089
A study of the weather record from Fanoe (1872-1980) including an analysis of climate variation
[AD-A136694] 10 p1540 N84-20090
Experiments with a spectral tropical cyclone model 10 p1542 N84-20105
On the role of the baroclinic structure in extratropical cyclone development: A case study 11 p1684 N84-20967
Tropical cyclone report, January - December 1983
[AD-A137836] 11 p1687 N84-21000
Forecast aids for predicting tropical cyclone associated gusts and sustained winds for Agana, Hong Kong, Kadena and Misawa
[AD-A137846] 11 p1687 N84-21001
A study of Western North Pacific tropical storms and typhoons that intensify after recurvature
[AD-A136792] 13 p2017 N84-23075
A SEASAT SASS simulation experiment to quantify the errors related to a + or - 3 hour intermittent assimilation technique
[E84-10129] 14 p2168 N84-23987
Fiscal Year 1983 programs, fiscal year 1984 projections
[PB84-158146] 14 p2181 N84-24066
Annual data and verification tabulation Atlantic tropical cyclones, 1983
[PB84-161330] 14 p2181 N84-24067
Tropical cyclone data tape for the North Atlantic Basin, 1886 - 1983: Contents, limitations and uses
[NOAA-TM-MWS-NHC-22] 16 p2531 N84-26252
Observing atmospheric water in storms with the Nimbus 7 scanning multichannel microwave radiometer 17 p2716 N84-27291
Conditions for two-cell structure in severe vortical storms
[AD-A136242] 17 p2734 N84-27361
Mariners Weather Log, Volume 28, Number 1, January-February-March 1984
[PB84-175710] 17 p2735 N84-27385
A spiral analysis technique for monitoring and predicting tropical cyclone intensity using satellite data
[AD-A141468] 19 p3058 N84-29401
Tropical cyclone sea-state probability model development and application
[AD-A142212] 19 p3059 N84-29407
Studies of Chebyshev spectral methods and multigrid methods
[AD-A142014] 20 p3245 N84-30596
Climate prediction. Part 1: Cyclone frequency
[AD-A143576] 22 p3625 N84-32973
Mariners Weather Log, Volume 28, Number 2, April-May-June 1984
[PB84-204569] 22 p3626 N84-32978
Tropical cyclone intensity analysis using satellite data
[NOAA-TR-NESDIS-11] 23 p3800 N84-34096
An explanation of the revised DVORAK technique for estimating tropical cyclone intensity using satellite cloud imagery and some results of its application to two 1982 storms 24 p3921 N84-34820
NASA/MSFC FY-84 Atmospheric Processes Research Review
[NASA-CP-2329] 24 p3923 N84-34829
Variational objective analyses for cyclone studies 24 p3924 N84-34840
The application of satellite data to study the effects of latent heat release on cyclones 24 p3925 N84-34841
Utilization of satellite cloud information to diagnose the energy state and transformations in extratropical cyclones 24 p3925 N84-34846
Dynamics and energetics of the South Pacific convergence zone during FGGE SOP-1 24 p3926 N84-34850
Studies of midaltitude cyclone structure with SEASAT scanning multichannel microwave radiometer 24 p3930 N84-34877
A study of tropical cyclone intensity from satellite imagery 24 p3956 N84-35048

CYCLONES (EQUIPMENT)
U CENTRIFUGES

CYCLOTETRAMETHYLENE TETRANITRAMINE
U HMX

CYCLOTRIMETHYLENE TRINITRAMINE
U RDX

CYCLOTRON FREQUENCY

Proceedings of the DOE Planning Workshop on RF Theory and Computations
[DE84-008670] 12 p1910 N84-22442
Monte Carlo studies of tandem mirror plasmas interacting with waves in the Ion Cyclotron Range of Frequencies
[DE84-008901] 18 p2934 N84-28605
Relativistic electromagnetic instabilities near electron cyclotron frequency and harmonics
[DE84-009672] 19 p3107 N84-29745
Acceleration of ions and electrons by wave-particle interactions
[AD-A142341] 20 p3292 N84-30900

CYCLOTRON RADIATION
NT ION CYCLOTRON RADIATION

Polarization studies in electron cyclotron heating experiments on the Versator 2 Tokamak
[AD-A130808] 01 p0149 N84-10978
Electron-cyclotron maser and whistler instabilities in a relativistic electron plasma with loss-cone distribution
[DE84-001607] 04 p0541 N84-13561
Electrostatic ion-cyclotron waves in magnetospheric plasmas: Non-local aspects
[NASA-CR-174501] 05 p0749 N84-14917
An absolute calibration method for electron cyclotron emission spectrometers
[REPT-83-149] 13 p1994 N84-22941
Cyclotron bistability of electrons in vacuum and semiconductors 14 p2236 N84-24418
Electron cyclotron radiation from mirror-confined plasma
[DE84-008685] 20 p3302 N84-30970
Second harmonic electron cyclotron emission studies of Tokapole-2 plasmas
[DE84-013103] 21 p3502 N84-32193

CYCLOTRON RESONANCE

The 60-GHz gyrotron development program
[DE83-012922] 02 p0214 N84-11402
Acceleration of heavy ions in the solar wind 03 p0474 N84-13118
Positive ion-molecule reactions in OCS/hydrocarbon mixtures
[AD-A132350] 04 p0493 N84-13237
Calculation of ion charge-state distribution in ECR ion sources
[DE84-000517] 04 p0600 N84-13957
Interaction of electromagnetic fields with plasma
[AD-A135173] 06 p1232 N84-18054
Relativistic broadening near cyclotron resonance
[AD-A136224] 09 p1391 N84-19084
New high power coherent radiation sources
[AD-A137317] 10 p1479 N84-19662
Bounce resonance heating and radial transport of electrons in magnetic mirrors
[IPPJ-654] 11 p1734 N84-21309
Monte Carlo study of ICRF start-up and sustained mode operation in tandem mirrors
[DE84-005808] 11 p1738 N84-21338
Whistler mode turbulence at Earth's bow shock: Generation via electron beams and ray path integrated amplification 17 p2726 N84-27349
Passage of strong electromagnetic pulse through semiconductor in external magnetic field 18 p2824 N84-27930
Density variation due to wave heating in Tokamak plasmas
[DE84-009402] 20 p3305 N84-30993
RF-induced stability and transport in axisymmetric tandem mirrors
[DE84-010842] 20 p3306 N84-30999
Non-geometrical optics investigation of mode conversion in weakly relativistic inhomogeneous plasmas
[DE84-012396] 20 p3306 N84-31002
Cyclotron resonant scattering of energetic electrons by electromagnetic waves in the magnetosphere 22 p3621 N84-32946
Influence of magnetic shear on the collisional current driven ion cyclotron instability
[AD-A143391] 22 p3659 N84-33191

CYCLOTRON RESONANCE DEVICES

Polarization studies in electron cyclotron heating experiments on the Versator 2 Tokamak
[AD-A130808] 01 p0149 N84-10978
Superconducting magnets for gyrotron tubes
[DE83-012815] 02 p0299 N84-11962
New high power coherent radiation sources
[AD-A137317] 10 p1479 N84-19662
Analysis of the output mode from 60 GHz, 200 kW pulsed and CW gyrotrons
[DE84-004586] 10 p1497 N84-19785
First 200 kW CW operation of a GHz gyrotron
[DE84-004573] 10 p1498 N84-19794
The 100 GHz, 1 MW, CW gyrotron study program
[DE84-005751] 12 p1813 N84-21819
1 megawatt, 100 GHz gyrotron study
[DE84-006527] 12 p1814 N84-21823
Far field radiation patterns from open ended oversized circular waveguides and identification of multimode outputs of gyrotrons
[IPF-83-5] 12 p1911 N84-22454
60 GHz gyrotron development program
[DE84-006606] 13 p1987 N84-22899
Development program for a 200kW, CW gyrotron
[DE84-007945] 14 p2149 N84-23874
Fundamental mode rectangular waveguide system for Electron-Cyclotron Resonant Heating (ECRH) for tandem mirror experiment-upgrade (TMX-U)
[DE84-009085] 15 p2322 N84-24940
Improved computer modelling of magnetron injection guns for gyrotrons
[DE84-007536] 15 p2330 N84-24992
Gyrotron backward-wave oscillator
[AD-A140908] 17 p2664 N84-26993
Transmission system development for electron cyclotron heating experiments of a Tokamak plasma
[AD-A140688] 17 p2766 N84-27566
Synthesis of MIG-type electron guns for gyrotrons
[INPE-3191-PRE/555] 21 p3391 N84-31517

CYCLOTRONS

The 83-inch cyclotron research program
[DE83-015827] 03 p0435 N84-12852
Acceleration of heavy ions in the solar wind 03 p0474 N84-13118
Acceleration of heavy ions in the AGS and CBA
[DE83-017762] 04 p0600 N84-13963
Possible detection of thermal cyclotron lines from small sources within solar active regions
[AD-A136218] 10 p1597 N84-20466
Studies of some plasma instabilities in space physics 17 p2766 N84-27562

CYGNUS CONSTELLATION

Periodic spectral variation in Cygnus X-2 and Scorpius X-1 06 p0937 N84-16068
Shell ejection phenomena in the hypergiant star P Cygni 24 p3977 N84-35189
Ultraviolet and optical observations of the Cygnus OB2 association: The star 8A 24 p3977 N84-35191
SS Cygni: Accretion disk morphology 24 p3979 N84-35206
The spectrum of the symbiotic star CH Cygni in January 1984 24 p3980 N84-35210

CYLINDERS

Nonlinear bending and collapse analysis of a poked cylinder and other point-loaded cylinders
[DE84-001853] 07 p1017 N84-16595
Free-piston Stirling engine experimental program: Part 2. An evaluation of loss mechanisms
[DE84-003658] 09 p1325 N84-18661
Non-Hertzian rolling contact with longitudinal creepage 15 p2315 N84-24894
Solving crack problems with analytical techniques and the finite elements method
[BLL-RISLEY-TR-4940-(9091.9F)] 20 p3200 N84-30325
Engine wear with methanol fuel in a nitrogen-free environment
[AD-A143530] 22 p3604 N84-32833
Detection of damage in hydraulic components by acoustic emission techniques
[AD-A143262] 22 p3607 N84-32850

CYLINDRICAL AFTERBODIES
U AFTERBODIES
U CYLINDRICAL BODIES

CYLINDRICAL ANTENNAS

An analytical study of cylindrical- and spherical-rectangular microstrip antennas 08 p1142 N84-17428
An experimental study of cylindrical antennas radiating in or near a lossy half space
[AD-A138206] 12 p1807 N84-21779
Study and design of a cylindrical lens array antenna for wideband electronic scanning
[AD-A138808] 13 p1983 N84-22875
Moebius r-2R lens
[AD-P003511] 21 p3385 N84-31479
Antenna performance verification at launch site. A feasibility study on preflight performance testing of stripline slot arrays mounted on a rocket
[AD-A143266] 22 p3577 N84-32653
A 360-degree scanning antenna with cylindrical array of slotted waveguides
[AD-D011189] 24 p3893 N84-34653

CYLINDRICAL BODIES
NT ROTATING CYLINDERS
Viscous effect on acoustic scattering by elastic solid cylinders and spheres
[DE83-014271] 01 p0140 N84-10920
High Reynolds number cylinder flow studies
[AD-A131116] 02 p0218 N84-11429
Water entry impact shock on flat faced cylindrical missiles
[AD-A131937] 03 p0371 N84-12419
Acoustic pulse scattering from impedance covered cylinders
[AD-A131653] 03 p0431 N84-12822
An analysis of smooth and axially finned, rotating heat pipe condensers
[AD-A132141] 04 p0534 N84-13509
A free-boundary problem arising from a galvanizing process
[AD-A132853] 05 p0655 N84-14304
Heat transfer distributions around nominal ice accretion shapes formed on a cylinder in the NASA Lewis icing research tunnel
[NASA-TM-83557] 05 p0679 N84-14463
The effects of space charge on ionic mobility measurements in cylindrical geometries
06 p0922 N84-15993
Numerical computation of steady state scattered sound external to submerged infinite cylinders by combining finite element and integral equation methods
[AD-A134773] 06 p1227 N84-16020
Wind tunnel tests on a nonaxisymmetric projectile shape at Mach numbers 2.5 to 6.0
[AD-A135784] 09 p1253 N84-18177
The effects of cylindrical surface modifications on turbulent boundary layers
[AD-A136296] 09 p1314 N84-18585
Impulsively-started flow about rectangular cylinders
[AD-A136029] 09 p1315 N84-18595
Behavior of pressurized cylinders with multiple internal cracks
[AD-A136104] 09 p1334 N84-18707
Effects of multiple cylinders on the formation of Von Karman vortex streets
[AD-A136930] 10 p1492 N84-19758
Solution of particulated viscous flow over a two dimensional cylinder and in a radial inflow turbine
10 p1496 N84-19782
The Shock and Vibration Digest, volume 15, no. 7
[AD-A132576] 10 p1505 N84-19845
Instability of circular cylinder arrays in cross flow
10 p1506 N84-19847
Three-dimensional locating of industrial parts
[PB84-134790] 11 p1641 N84-20731
Numerical solution for a spinning, nutating, fluid-filled cylinder
[DE84-005878] 11 p1654 N84-20799
Influence of anisotropy and viscosity on propagation on waves in multilayer cylinders 12 p1788 N84-21660
Analysis of unsteady processes caused by nonaxisymmetrical loading of finite multilayer cylinders
12 p1788 N84-21661
Effect of hydromechanical inertia forces on stability of cylindrical hydrodynamic bearing
13 p1971 N84-22789
Calculation procedures for variational, Born and exact solutions for electromagnetic scattering from two randomly separated dielectric Rayleigh cylinders
[AD-A138543] 13 p1982 N84-22865
Transient three-dimensional predictions of turbulent flows in cylindrical and cartesian coordinate systems
13 p1991 N84-22927
Analysis of a fully discrete scheme for the neutron transport in cylindrical geometry
[CTH-MATH-1984-1] 13 p2041 N84-23246
Stress distribution in a cylindrical bar subjected to cyclic torsional loading
[AD-A139413] 14 p2158 N84-23929
Stress distribution in a cylindrical bar subjected to cyclic torsional loading
[AD-P002957] 14 p2199 N84-24197
Elastic wave scattering from cylindrical cavities and solid inclusions analyzed by the resonance method
[AD-P002971] 14 p2201 N84-24207
A transmission line bridge for the diagnostics of plasma channels
[AD-A139286] 14 p2228 N84-24362
Fluid forces on a rigid cylinder in turbulent crossflow
[DE84-006364] 15 p2333 N84-25012
New developments in cylinder testing
[DE84-002782] 15 p2337 N84-25033
Investigation of a cylindrical inflated beam-column structure
[BU-301] 15 p2350 N84-25105
Microexplosions in boreholes
[FOA-C-20523-E1] 15 p2406 N84-25445
Manufacturing methods and technology engineering for 'Growth of large diameter Nd:YAG laser crystals'
[AD-A139902] 15 p2413 N84-25486
Treatment of the discontinuity in the spin-up problem with impulsive start
[AD-A133682] 16 p2485 N84-25940
Effects of unsteady free stream velocity and free stream turbulence on stagnation point heat transfer
[NASA-CR-3804] 16 p2486 N84-25943
On the problem of cylindrical array radiation through inhomogeneous dielectric layer
17 p2631 N84-26831
Concerning Q of a cylindrical dielectric resonator screened by a waveguide 17 p2631 N84-26832
Engineering method of calculating the temperature field of solid and hollow cylinders
[BLL-M-35561-(5828.4)] 17 p2685 N84-26995
Heat transfer measurements of internally finned rotating heat pipes
[AD-A140847] 17 p2688 N84-27015
Suppression of finite-amplitude effects in sloshing modes in cylindrical cavities
[AD-A140652] 17 p2758 N84-27509
Distributed parameter control techniques with application to adaptive control of certain flutter phenomena, November 1, 1982 to October 31, 1983
[AD-A140943] 18 p2923 N84-28540
Low cost thermal protection system processing
[AD-D011142] 22 p3544 N84-32434
Beam recombination via cylindrical mirror
[AD-D011104] 22 p3601 N84-32812
French firm uses unique flexible workshop with laser cutter 22 p3651 N84-33143
Application of stiffened cylinder analysis to ATP interior noise studies
[NASA-CR-172384] 22 p3652 N84-33147
Contribution of pressure to the moment during spin-up on a nutating liquid-filled cylinder: Ad hoc model
[AD-A143678] 23 p3747 N84-33752
The effect of thermomechanical coupling in the case of a thick-wall sphere and tube subjected to internal pressure
[ISSN-0208-5658] 23 p3759 N84-33823
T-motor tests with cylindrical grains
[AD-A143814] 24 p3866 N84-34503

CYLINDRICAL CHAMBERS
Finite analytic numerical solutions of laminar and turbulent convective heat transfer for pipe flow past a cavity 08 p1154 N84-17515
Thermal characteristics of plasma reactors with cylindrical and conical multijet mixing chambers
13 p1970 N84-22788
The characteristics of the cylindrical drift chambers of the detector CELLO: Investigation with muons from high altitude cosmic rays
[MPI-PAE/EXP.E1.125] 19 p3028 N84-29205

CYLINDRICAL COORDINATES
U CARTESIAN COORDINATES

CYLINDRICAL PLASMAS
Development of a high resolution cylindrical crystal spectrometer for line shape and spectral diagnostics of X-rays emitted from-hot-plasmas
[DE84-005664] 11 p1661 N84-20835

CYLINDRICAL SHELLS
Further results on the predictions of collapse pressure of a ring stiffened cylindrical shell subject to hydrostatic pressure
[AD-A130877] 01 p0095 N84-10619
Mach disc formation in cylindrical recovery systems
[DE83-015912] 02 p0220 N84-11442
Transmission of sound through a cylindrical shell and a light aircraft fuselage 02 p0287 N84-11881
Elastic-plastic fracture of cylindrical shells containing part-through circumferential cracks
03 p0391 N84-12553
Tape joint design guidelines
[DE84-002052] 05 p0688 N84-14522
Analysis of the nonlinear large deformation behavior of composite cylindrical shells
[AD-A133761] 05 p0693 N84-14549
An experimental investigation of the boundary layer structures in a partially-filled horizontal and rapidly-rotating cylinder 06 p0832 N84-15414
Liquid management in low gravity using baffled rotating containers
[NASA-TP-2263] 06 p0834 N84-15427
Propagation of flexural and membrane waves with fluid loaded NASTRAN plate and shell elements
06 p0860 N84-15602
Stiffness properties for dynamic modeling of composite graphite-epoxy cylindrical orthotropic shells
06 p0932 N84-16054
Optimization of laminated composite cylindrical shells for axial buckling 07 p0985 N84-16377
Large deformation analysis of a cylindrical shell under pure bending and pressurization
07 p1015 N84-16582
Stresses in cylindrical shells with nozzles subjected to external loadings and internal pressure
[CRIF-MT-156] 07 p1017 N84-16597
An accurate theory and simple fourth order governing equations for orthotropic and composite cylindrical shells
[AD-A134532] 07 p1062 N84-16886
A cylindrical shell with a stress-free end which contains an axial part-through or through crack
[NASA-CR-173290] 08 p1169 N84-17617
A pressurized cylindrical shell with a fixed end which contains an axial part-through or through crack
[NASA-CR-173291] 08 p1169 N84-17618
Transient thermal stresses in a reinforced hollow disk or cylinder containing a radial crack
[NASA-CR-173292] 08 p1170 N84-17619
A functional stress intensity approach to multiply cracked, partially autofrettaged cylinders
[AD-A135345] 08 p1170 N84-17625
Interaction between local and overall buckling modes in axially stiffened cylindrical shells
[UTIAS-247] 09 p1328 N84-18674
New method of analyzing vibration of cracked cylindrical shells
[AD-A136637] 09 p1331 N84-18693
Pressure measurements in a rapidly rotating and coning, highly viscous fluid
[AD-A136824] 10 p1491 N84-19753
A variational method for calculating the natural frequencies and mode shapes of a cantilevered open cylindrical shell
[AD-A136901] 10 p1517 N84-19932
Buckling of stiffened cylindrical bins under wind loading
[PB84-137926] 10 p1518 N84-19941
Stress intensity factors in a reinforced thick-walled cylinder
[NASA-CR-172307] 11 p1668 N84-20879
Study of large viscoplastic strains in cylindrical shells by method of magnetic-pulse loading
13 p1972 N84-22798
Estimation of local stress intensity in flanged thin-wall shell structures under heavy thermal load
13 p1972 N84-22799
Stressed-strained state of flanged shells under heavy thermal load beyond elastic limit
13 p1972 N84-22800
Solving statics problems of thick-walled cylindrical shells with loose contact between layers
13 p1973 N84-22805
Large deformation behavior of long shallow cylindrical composite panels
[NASA-CR-173286] 13 p2000 N84-22975
Underwater shock-induced responses of submerged cylindrical structures
[AD-A139072] 13 p2002 N84-22987
Method of initial functions for thick shells
13 p2003 N84-22996
Longitudinally stiffened composite multi-layer cylindrical shells (and rings) under internal pressure
15 p2309 N84-24855
On the analysis of thick walled composite material cylindrical shells 15 p2311 N84-24857
Circumferential cracks in cylindrical shells
16 p2501 N84-26050
Supersonic three-dimensional jet flow in channel
17 p2648 N84-26928
Experimental study of behavior of cylindrical shells with lumped masses under dynamic external pressure
17 p2650 N84-26947
Effect of pressure wave on cylindrical sandwich shell immersed in compressible fluid
17 p2650 N84-26948
Stressed and strained state of cylindrical shells reinforced with hoops 17 p2651 N84-26952
Multiple buoyancy driven flows in a vertical cylinder heated from below
[NASA-CR-173626] 17 p2666 N84-27001
Theoretical and experimental results of dynamic behavior of periodically stiffened cylindrical shell
18 p2794 N84-27731
Instability of collapsing cylindrical shell during magnetic energy density 20 p3267 N84-30872
A shear deformable shell element for laminated composites 21 p3420 N84-31691
Stress analysis of foam sandwich semi-monocoque structures 24 p3958 N84-35061

CYLINDRICAL TANKS
Logarithmic decrement of oscillations of low-viscosity fluid rotating inside cylindrical vessel
17 p2645 N84-26921
Effect of external pressure environment on the internal noise level due to a source inside a cylindrical tank
[NASA-TM-85814] 21 p3346 N84-31226

CYLINDRICAL WAVES
Tube waves recorded in a seismic crosshole experiment
[FOA-C-20521-E1] 15 p2368 N84-25208
CYLINDROIDS
U CYLINDRICAL BODIES
CYTOCHROMES
Kinetic and spectroscopic studies of cytochrome b-563 in isolated cytochrome b/f complex and in thylakoid membranes
[DE83-017982] 04 p0571 N84-13760
Nitrite reduction in paracoccus halodenitrificans: Evidence for the role of a cd-type cytochrome in ammonia formation
[NASA-TM-85883] 10 p1545 N84-20125
CYTOGENESIS
Cytoplasmic rearrangements associated with amphibian egg symmetrization 09 p1357 N84-18867
International Workshop on Biophysical Correlates of Cellular Function UNESCO
[AD-A142490] 20 p3257 N84-30671
CYTOLOGY
Role of calmodulin in cell proliferation 02 p0264 N84-11737
Approach to single-molecule detection by laser-induced fluorescence
[DE84-001338] 04 p0542 N84-13572
Laser cell analyzer 17 p2741 N84-27406
Effect of decimeter waves on physical-chemical state of membranes, thymocyte chromatin and immunological reactivity of an organism 17 p2742 N84-27411
Do living cells have a good sensitivity to gravity 17 p2744 N84-27425
CYTOPLASM
Calcium and mitosis 02 p0262 N84-11722
Cytoplasmic rearrangements associated with amphibian egg symmetrization 09 p1357 N84-18867
International Workshop on Biophysical Correlates of Cellular Function UNESCO
[AD-A142490] 20 p3257 N84-30671
CZECHOSLOVAKIA
East Europe report: Science and technology
[JPRS-ESA-84-035] 23 p3813 N84-34178
Selections on CSSR electronics, computer technology: MHS8804 integrated circuit 23 p3813 N84-34179
CZOCHRALSKI METHOD
LEC GaAs for integrated circuit applications
[NASA-CR-173267] 07 p1079 N84-17014
Research on ferroelectric materials for millimeter wave application
[AD-A137128] 10 p1588 N84-20405
Ferroelectric tungsten bronze bulk crystals and epitaxial thin films for electro-optic device applications
[AD-A138693] 13 p2046 N84-23278
Manufacturing methods and technology engineering for 'Growth of large diameter Nd:YAG laser crystals'
[AD-A139902] 15 p2413 N84-25486
Carbon, oxygen and their interaction with intrinsic point defects in solar silicon ribbon material: A speculative approach
[NASA-CR-173756] 18 p2870 N84-28221
Overview of bulk silicon crystal growth — Czochralski and float zone systems 18 p2935 N84-28617
Polycrystalline silicon sheets for solar cells by the improved spinning method 18 p2937 N84-28626
Maximization of growth rates during Czochralski pulling 18 p2940 N84-28648
Research on the crystal growth and dielectric properties of high permittivity ferroelectric materials
[AD-A142125] 19 p3111 N84-29767
Preparation of mixed perovskite oxides for blue-green lasers
[AD-A142195] 19 p3111 N84-29768
Silicon crystal growing by oscillating crucible technique
[DE84-011038] 20 p3309 N84-31019

D

D LAYER
U D REGION
D REGION
Electron energy deposition in the middle atmosphere
[AD-A139122] 14 p2175 N84-24032
The influence of localized precipation-induced D-region ionization enhancements on subionospheric VLF progation 17 p2726 N84-27348
Measurement of nitric oxide in the equatorial D-region and other relevant parameters
[IWF-8304] 17 p2726 N84-27365
First All-Union Symposium on M.A.P.: Conclusion of report 18 p2822 N84-27917
Ion kinetics, minor neutral and excited components in D-region with high level of ionization 19 p2973 N84-28848
DACRON (TRADEMARK)
Temperature-resistant elements for reverse osmosis treatment of hot process waste
[DE84-005190] 10 p1456 N84-19507
DAEMO (DATA ANALYSIS)
U DATA PROCESSING
U DATA REDUCTION
U DATA TRANSMISSION
DAMAGE
NT CUMULATIVE DAMAGE
NT EARTHQUAKE DAMAGE
NT FIRE DAMAGE
NT FLOOD DAMAGE
NT IMPACT DAMAGE
NT LASER DAMAGE
NT METEORITIC DAMAGE
NT PROTON DAMAGE
NT RADIATION DAMAGE
NT STORM DAMAGE
Improved acrylic systems for rapid runway repair
[AD-A130389] 01 p0016 N84-10103
Ultraviolet curable resin system for rapid runway repair
[AD-A130364] 01 p0016 N84-10104
The effects of weather on rapid runway repair, volume 2
[AD-A130350] 01 p0016 N84-10105
Characterization, Analysis and Significance of Defects in Composite Materials
[AGARD-CP-355] 01 p0032 N84-10203
The significance of defects and damage in composite structures 01 p0035 N84-10219
Defect occurrences in the manufacture of large CFC structures and work associated with defects, damage and repair of CFC components 01 p0035 N84-10223
Raising the surface damage threshold of neutral solution processed BK-7 by pulse laser irradiation
[DE83-012660] 02 p0225 N84-11477
Further abbreviation of the machining schedule for producing surface-damage-free beryllium
[DOE/TIC-4500-REV-69] 06 p0814 N84-15297
General method for fatigue analysis of vertical axis wind turbine blades
[DE84-002654] 06 p0861 N84-15613
Use of shear lag for composite microstress analysis - rectangular array
[AD-A134165] 07 p0967 N84-16267
Some thoughts on 3-D isoparametric elements
[ARL-STRUC-NOTE-489] 07 p1059 N84-16860
Research on shock models, wear processes, replacement and maintenance policies
[AD-A135620] 09 p1382 N84-19028
Damage mechanisms in damaged CFRP laminates 10 p1452 N84-19483
Increase of cold tolerance in cotton plant (Gossypium hirsutum L.) by mepiquat chloride
[E84-10088] 10 p1521 N84-19959
Ultrastructural evaluation of the retina in retinopathy of prematurity and correlations with vitamin E therapy
[AD-A135929] 10 p1547 N84-20143
Systematic evaluation of technical causes of damage — fracture mechanics
[ISBN-3-88355-070-1] 14 p2125 N84-23734
Procedure of treating a case of damage — fractures 14 p2125 N84-23735
Corrosion damage in metallic materials without mechanical loading 14 p2126 N84-23744
Damage due to high temperature corrosion 14 p2126 N84-23746
Wear damage to materials — tribology 14 p2126 N84-23747
Damage to welding seams — cracks 14 p2126 N84-23748
Fracture mechanics in the analysis of damage — crack propagation 14 p2126 N84-23749
Seismo-acoustic effects of sonic booms on archeological sites, Valentine Military Operations Area
[AD-A139561] 14 p2146 N84-23862
Statistical approach to damage tolerance assessment
[SNIAS-832-111-112] 15 p2260 N84-24575
Fuel-resistant coating and binders for porous friction surface pavements: Tests and analyses
[AD-A139665] 15 p2317 N84-24907
Battle damage repair of birdstrike resistant laminated transparencies
[AD-P003185] 17 p2589 N84-26596
Civil aircraft windscreen damage due to birdstrikes
[AD-P003214] 17 p2594 N84-26627
USAF aircraft windshield/canopy bird strikes
[AD-P003215] 17 p2594 N84-26628
Evaluation of selected commercial construction equipment for bomb damage repair
[AD-A140907] 17 p2611 N84-26714
Bomb damage repair: Precast slab design
[AD-A141687] 19 p2970 N84-28819
Matrix-dominated time-dependent deformation and damage of graphite epoxy composite -- experimental data under multiple-step relaxation
[AD-A141697] 19 p2986 N84-28920
Tensile strength of composite sheets with unidirectional stringers and crack-like damage 20 p3146 N84-29974
Reactions of cerebral cortex neurons to alternating magnetic field on glutamic acid 20 p3256 N84-30681
Recent damage results for antireflection coatings at 355 NM
[DE84-011560] 21 p3371 N84-31388
Observations on the sliding wear of ceramics
[DE84-012344] 21 p3372 N84-31395
Antenna performance verification at launch site. A feasibility study on preflight performance testing of stripline slot arrays mounted on a rocket
[AD-A143266] 22 p3577 N84-32653
Detection of damage in hydraulic components by acoustic emission techniques
[AD-A143262] 22 p3607 N84-32850
Evaluation of the pavement condition index for use on porous friction surfaces
[AD-A144521] 24 p3857 N84-34453
DAMAGE ASSESSMENT
Shuttle launch debris: Sources, consequences, solutions 01 p0019 N84-10124
In-service NDI of composite structures: An assessment of current requirements and capabilities 01 p0035 N84-10220
Research program for effects of acidic deposition on materials and cultural resources
[PB83-232074] 01 p0051 N84-10331
Multiple-pulse laser-induced damage in crystaline and fused quartz
[DE83-015458] 01 p0154 N84-11015
Monte Carlo simulation of shock-induced lattice damage
[DE83-015189] 01 p0154 N84-11016
Advanced fatigue damage development in graphite epoxy laminates 02 p0187 N84-11216
Ballistic impact on carbon fiber reinforced epoxy composites
[FOA-C-20497-F9] 02 p0189 N84-11227
Cumulative damage in components of steel structures under cyclic inelastic loading 03 p0391 N84-12550
Probabilistic fatigue life predictions of structural components in high-cycle fatigue regimes
[AD-A132425] 04 p0549 N84-13615
Natural hazards photograph catalog, key to geophysical records documentation no. 20
[PB83-250415] 04 p0557 N84-13674
Research on composite materials for structural design
[AD-A134059] 05 p0645 N84-14242
Effect of contact damage on the strength of ceramic materials
[AD-A133746] 05 p0658 N84-14327
Organized microscale structure of the windstorm of 12 May 1983 in Utrecht and vicinity
[KNMI-TR-36] 05 p0709 N84-14647
Use of shear lag for composite microstress analysis - linear array
[AD-A134174] 07 p0967 N84-16269
Reanalysis methods for structures with laser induced damage
[AD-A135874] 09 p1322 N84-18638
Identification of damage in hysteretic structures
[AD-A136342] 09 p1331 N84-18688
Compressive strength and damage mechanisms in partially stabilized zirconia
[AD-A137513] 10 p1459 N84-19529
Mathematical models for damageable structures
[AD-A136574] 10 p1572 N84-20298
Description and analysis of PACAM 5 (Piloted Air Combat Analysis Model) as a tactical decision aid with a user's guide for operation at NPS
[AD-A136793] 10 p1574 N84-20313
A study of pump cavitation damage — space shuttle main engine high pressure oxidizer turbopump
[NASA-CR-170992] 11 p1652 N84-20783
Evaluation of army remotely piloted vehicle mission payload operator performance in simulated artillery missions
[AD-A137602] 11 p1703 N84-21103
Materials study experiments with Elektrotopograf on Salyut-7 12 p1774 N84-21568
Crack layer theory
[NASA-CR-174634] 13 p2001 N84-22980
Assessment of microdamage development during tensile loading of graphite/epoxy laminates
[AD-A139128] 14 p2119 N84-23701
Fatigue damage - strength relationships in composite laminates, volume 2
[AD-A139241] 14 p2120 N84-23704

Systematic evaluation of technical causes of damage — fracture mechanics
[ISBN-3-88355-070-1] 14 p2125 N84-23734
Procedure of treating a case of damage — fractures
14 p2125 N84-23735
Materials investigations — fracture mechanics
14 p2125 N84-23737
Electron microscopy for damage analysis — fractures
14 p2125 N84-23738
Fracture mechanics in the analysis of damage — crack propagation 14 p2126 N84-23749
Response of structural panels to air blast
15 p2316 N84-24902
Aerothermal performance and damage tolerance of a Rene 41 metallic standoff thermal protection system at Mach 6.7
[NASA-TM-85773] 17 p2615 N84-26739
A simulation model to evaluate aircraft survivability and target damage during offensive counterair operations
[AD-A141324] 18 p2793 N84-27726
Creep damage mechanics and micromechanisms
[NPL-DMA(A)-77] 19 p3034 N84-29243
Equivalent electron fluence for solar proton damage in GaAs shallow junction cells 19 p3046 N84-29324
Cost/risk analysis for disk retirement, volume 1
[AD-A141978] 20 p3131 N84-29881
Role of texture and structural damage in plane strain deformation processing 21 p3416 N84-31664

DAMAGE THRESHOLD
U YIELD POINT

DAMPERS
Nonlinear attitude stability of a dual-spin spacecraft containing spherical dampers
[AD-A141307] 18 p2807 N84-27821

DAMPERS (VALVES)
A technical note on evaluation of dampers
10 p1507 N84-19859
Experimental study of uncentralized squeeze film dampers
[NASA-CR-168317] 10 p1516 N84-19927

DAMPING
NT ELASTIC DAMPING
NT LANDAU DAMPING
NT VIBRATION DAMPING
NT VISCOELASTIC DAMPING
NT VISCOUS DAMPING
Development of an alloy with high damping properties
[BLL-M-35211-(5828.4)] 01 p0041 N84-10260
Damping ring rf system for SIC
[DE83-011853] 01 p0143 N84-10938
Measurement of macroscopic plasma parameters with a radio experiment: Interpretation of the quasi-thermal noise spectrum observed in the solar wind
03 p0470 N84-13096
Photon damping in cosmic-ray acceleration in active galactic nuclei
[DE83-011320] 03 p0476 N84-13133
Perturbation methods for slightly damped gyroscopic systems 04 p0537 N84-13534
Initial estimates of damping rates and frequencies
[ARL-STRUC-NOTE-485] 04 p0587 N84-13879
Multishaker modal testing
[NASA-CR-170952] 06 p0847 N84-15521
Torsional ultrasonic technique for reactor vessel liquid level measurement
[DE84-003357] 08 p1228 N84-18024
A study of waves on a curved space-time
08 p1237 N84-18063
Importance of gravity for plant growth and behavior
09 p1356 N84-18864
The Shock and Vibration Digest, volume 15, no. 11
[AD-A137065] 10 p1507 N84-19858
Stable response of damped linear systems
10 p1507 N84-19861
Measurement and analysis of platform damping in advanced turbine blade response
10 p1514 N84-19911
SSME interstage seal research
[NASA-CR-170995] 11 p1624 N84-20831
Kinematic and dynamic analysis of high-speed intermittent-motion mechanisms
[AD-A137903] 11 p1665 N84-20862
Optimization for vibration isolation
[AD-A137895] 11 p1668 N84-20886
Dual clearance squeeze film damper
[NASA-CASE-LEW-13506-1] 13 p1932 N84-22562
Constant force friction damper
[NASA-CASE-MSC-20505-1] 13 p1939 N84-22611
Quantum theory of optical excitonic bistability
14 p2237 N84-24427
Investigation of the dynamic properties of an elastomer bush
[BU-283] 15 p2255 N84-24543
Critically damped dynamic systems
15 p2313 N84-24879
Passage of waves in fluids through damping interlayers and their interaction with barrier
17 p2647 N84-26934
Preliminary evaluation of waveguide vibration absorbers
[AD-A140743] 17 p2680 N84-27070
Invention of a tunable damper for use with an acoustic waveguide in hostile environments
[DE84-013109] 20 p3292 N84-30897
Comparison of some SSC beam parameters for pp and anti pp
[DE84-010729] 20 p3293 N84-30908
Photon losses in cosmic ray acceleration in active galactic nuclei
[DE84-012583] 20 p3321 N84-31081
Digital control system for space structural dampers
[NASA-CR-173867] 21 p3353 N84-31267
Critical speed of centrifugal pumps
21 p3418 N84-31677
Dynamic characteristics of heat exchanger tubes vibrating in a tube support plate inactive mode
[DE84-014844] 23 p3761 N84-33840
Rotationally sampled wind characteristics and correlations with MOD-OA wind turbine response
[PNL-5238] 24 p3916 N84-34794
Apparatus for disintegrating kidney stones
[NASA-CASE-GSC-12652-1] 24 p3936 N84-34913
Enthalpy damping for the steady Euler equations
[NASA-TM-86008] 24 p3950 N84-35009

DAMPING FACTOR
U DAMPING

DAMPING IN PITCH
U DAMPING
U PITCH (INCLINATION)

DAMPING IN ROLL
U DAMPING
U ROLL

DAMPING IN YAW
U DAMPING
U YAW

DAMPING TESTS
Design considerations of platens for vibration testing
[AD-A135815] 09 p1332 N84-18699
Procedure for determination of damping capability of turbomachine blades subjected to heat and centrifugal forces 17 p2642 N84-26905
The design of a test procedure for the measurement of acoustic damping materials at low stress
[AD-A132701] 18 p2853 N84-28113

DAMPNESS
U MOISTURE CONTENT

DAMS
An instrument to monitor the tilt of large structures
[AD-A129598] 01 p0084 N84-10544
Activities in hydraulics 02 p0235 N84-11542
Abrasion-erosion resistance of concrete made with two aggregates, Stonewall Jackson Dam, West Virginia
[AD-A133432] 06 p0822 N84-15357

DANGER
U HAZARDS

DARK ADAPTATION
Preliminary investigation of variation in some dark adaptation aspects for possible relevance to military helicopter aircrew
[AD-A130231] 01 p0113 N84-10733

DARKENING
NT LIMB DARKENING

DART TURBOPROP ENGINES
U TURBOPROP ENGINES

DASSAULT AIRCRAFT
NT MIRAGE AIRCRAFT

DATA ACQUISITION
The CEMS (Comprehensive Engine Management System) IV OAP (Oil Analysis Program) algorithm
[AD-A131055] 01 p0011 N84-10072
The calibration and flight test performance of the space shuttle orbiter air data system 01 p0026 N84-10165
Data analysis of the LLNL hydrogen igniter experiments
[DE83-010260] 01 p0037 N84-10236
Comparative testing of polymer solutions. Part 1: Preliminary evaluation of a rheometrics fluids rheometer
[AD-A130888] 01 p0050 N84-10322
Low temperature behavior of fuels in simulated aircraft tanks
[AD-A130267] 01 p0052 N84-10336
Scanning laser Doppler anemometer and its application in turbulent separated flow
[AD-A130923] 01 p0084 N84-10548
Interactive raster data structure study
[AD-A130195] 01 p0100 N84-10649
Memory-mapped CAMAC branch driver
[DE83-016084] 01 p0119 N84-10775
CAMDAS (CAMAC data-acquisition system)
[DE83-014907] 01 p0124 N84-10810
Investigation of magnetic field measurements
[AD-A130422] 01 p0138 N84-10904
Data acquisition for stall/spin flight research
02 p0169 N84-11111
A study of air-pollution mixing heights and atmospheric turbulence over New York City, data report
[DE83-010624] 02 p0244 N84-11596
The geographic and statistical analysis of air quality data in the United States
[DE83-016471] 02 p0244 N84-11598
Eddy-correlation measurements of the resistance to vertical transport of ozone
[DE83-015363] 02 p0244 N84-11600
Ecological models of the Mississippi Deltaic Plain Region: Data collection and presentation
[PB83-239012] 02 p0245 N84-11604
A preliminary analysis of precipitation in southern Nevada
[DE83-016648] 02 p0256 N84-11678
Long-term trends in dynamic height and sea surface temperature
[DE83-014868] 02 p0258 N84-11687
Use of desktop computers for data acquisition
[DE83-014277] 02 p0270 N84-11768
Core graphics user's manual
[DE83-013206] 02 p0274 N84-11791
FASTMENU: A set of FORTRAN programs for analyzing surface texture
[PB83-240838] 02 p0278 N84-11804
Status of the SLAC SNOOP diagnostic module for FASTBUS
[DE83-012715] 02 p0290 N84-11903
Space Shuttle external interference heating test
[AD-A131688] 03 p0341 N84-12215
Ground coupled heat-pump-system experimental results
[DE83-014011] 03 p0373 N84-12427
Design and implementation of a preprocessing system for a sodium lidar
[NASA-CR-174595] 03 p0378 N84-12482
Review of potential satellite techniques for mesoscale mapping of insolation
[DE83-011966] 03 p0401 N84-12622
Variability of atmospheric density in the middle atmosphere
[AD-A131985] 03 p0407 N84-12667
Field and laboratory studies of ice nucleation in winter orographic clouds 03 p0409 N84-12678
Snow characterization instruments
[AD-A131984] 03 p0411 N84-12687
Australian Oceanographic Data Centre bulletin 16
[AD-A132002] 03 p0413 N84-12701
Hardware and software configuration of the Doublet 3 diagnostic-data-acquisition computer system
[DE83-013427] 03 p0418 N84-12733
Experiments on the nuclear interactions of pions
[DE83-016285] 03 p0434 N84-12944
Real-time diagnostic-data-acquisition system for the Doublet 3 Tokamak fusion experiment
[DE83-015871] 03 p0445 N84-12927
Information retrieval research support
[AD-A131990] 03 p0459 N84-13022
Stellar winds driven by multi-line scattering
03 p0469 N84-13087
Solar wind variations in the 60-100 year period range: A review 03 p0469 N84-13092
Periodicities in the occurrence of aurora as indicators of solar variability 03 p0470 N84-13093
Fiber composite materials research in the UK: Assessment report
[AD-A132386] 04 p0492 N84-13226
The computer fire codes and required new data
04 p0513 N84-13369
The Telecommunications and Data Acquisition Report
[NASA-CR-174610] 04 p0516 N84-13401
Polynomial driven time base and PN generator
04 p0519 N84-13409
NOVANET: Communications network for a control system
[DE83-013662] 04 p0523 N84-13436
Data validation and summary for the NRL remote sensing experiment: Phelps Bank, July, 1982. Part 2: Meteorology
[AD-A132105] 04 p0553 N84-13646
Satellite activities of NOAA (National Environmental Satellite Data and Information Service) 1982
[PB83-252510] 04 p0568 N84-13747
NRIC microcomputer system
[CSIR-T/SEA-8134] 04 p0577 N84-13805
Neutron total cross section measurements in the energy region from 47 keV to 20 MeV
[DE84-001400] 04 p0601 N84-13970
Fast, self-nulling spectroscopic ellipsometer: Instrumentation and application, revision
[DE83-015531] 04 p0605 N84-13994

Description of the preliminary measurements carried out on the 11 GHz experimental facility at Roma-Monte S. Pancrazio
[FUB-39-1982] 05 p0671 N84-14411
Heat transfer, pressure drop, and fluid flow in interrupted wall passages 05 p0682 N84-14487
An instrument for the characterization of defects in ultrasonic inspections
[CISE-2073] 05 p0690 N84-14533
Summary and overview 05 p0696 N84-14569
Memory intensive functional architecture for distributed computer control systems
[DE84-002579] 05 p0720 N84-14719
CRAY-1 instruction analysis: A comparison of two methods
[DE83-012778] 05 p0730 N84-14794
Photonuclear data index, 1973-1981, supplement 2 to NBS (National Bureau of Standards) special publication 380
[PB83-251363] 05 p0746 N84-14898
High resolution 3-d tomographic imaging by wavelength and polarization diversity
[AD-A134101] 05 p0747 N84-14903
General purpose magnetic-measurement data-acquisition system
[DE84-001101] 05 p0759 N84-14982
Incident reporting: Its role in aviation safety and the acquisition of human error data
06 p0775 N84-15081
The analysis of records of parameters: An indispensable tool in oversight and in operations control
06 p0775 N84-15082
IRIG standard for distributing interrange vector acquisition data
[AD-A133617] 06 p0793 N84-15170
Support for the Naval Research Laboratory Environmental Passive Microwave Remote Sensing Program
[AD-A133330] 06 p0847 N84-15526
Techniques for sensor-based diagnosis
[AD-A133297] 06 p0896 N84-15814
Laboratory automation of a quadrupole mass spectrometer 06 p0932 N84-16053
The perceptual component of relationships in library networks 06 p0934 N84-16070
Stratospheric determination of effective photodissociation cross sections for molecular oxygen: 191-204 nm
[AD-A134168] 07 p1034 N84-16706
Software for computer controlled X-ray photoelectron and Auger Spectroscopy
[DE84-003912] 07 p1056 N84-16837
Hypothesis identification in the case of the missing cell
[AD-A134553] 07 p1063 N84-16895
Reliability and maintainability data acquisition in equipment development tests
[DE84-002994] 07 p1084 N84-17051
Data acquisition for evaluation of an airborne lightning detection system
[AD-A135316] 08 p1100 N84-17153
Airloads research study. Volume 1: Flight test loads acquisition
[NASA-CR-170409] 08 p1103 N84-17173
Study of a pulse width modulated, telemetered, microprocessor based data acquisition system
08 p1114 N84-17247
Incident velocity distributions on sampling electrodes of spacecraft plasma instruments 08 p1117 N84-17267
Enhancement of SEASAT wind-stress measurements using data from GOES
[PB84-111244] 08 p1192 N84-17773
Preparing meteorological data for use in routine dispersion calculations: Workgroup summary
[PB84-119890] 08 p1193 N84-17774
NODC (National Oceanographic Data Center) inventory of XBT data along transects in U.S. Atlantic and Gulf coastal waters from NMFS/MARD ship of opportunity program for 1981
[PB84-122662] 08 p1197 N84-17802
Proposed National Technical Information Service revolving fund
[PB84-103076] 08 p1239 N84-18097
Experimental investigation of dynamic stall
[AD-A135846] 09 p1252 N84-18172
Assessment methodology for the A-7E: Scale model coupling experiments
[DE84-003139] 09 p1256 N84-18199
Computerised data acquisition and control methods as related to mechanisms testing — spacecraft mechanisms 09 p1296 N84-18473
Picosecond time difference measurements utilizing CAMAC-based ANSI/IEEE-488 data acquisition hardware. Operating manual IE3, version 1.0
[PB84-116011] 09 p1319 N84-18616
Water resources data for New Jersey, water year 1982. Volume 1: Atlantic Slope Basins, Hudson River to Cape May
[PB84-119726] 09 p1338 N84-18736
Water resources data for New York, water year 1982. Volume 1: Eastern New York excluding Long Island
[PB84-114198] 09 p1339 N84-18744
Water resources data for Puerto Rico, 1981 - 1982
[PB84-114701] 09 p1339 N84-18746
Water resources data for Indiana, water year 1982
[PB84-114990] 09 p1339 N84-18747
Water resources data for Louisiana, water year 1982. Volume 1: Central and Northern Louisiana
[PB84-118546] 09 p1339 N84-18750
Water resources data for Montana, water year 1982. Volume 2: Columbia River Basin
[PB84-118561] 09 p1340 N84-18752
A set of organizational-climate measures: Internal consistency, factor structure, and predictive power
[AD-A135352] 09 p1398 N84-19132
An approach to reliable parallel data processing
09 p1402 N84-19157
Data set description and bias — in astronomy
09 p1408 N84-19197
An application of the Navstar global positioning system in navigation track reconstruction for Naval exercises
[AD-A136807] 10 p1425 N84-19321
Evaluation of the crack growth gage concept as an individual aircraft tracking device, volume 1
[AD-A136932] 10 p1428 N84-19340
Tracking and data acquisition system for the 1990's. Volume 1: Executive summary
[NASA-CR-175193] 10 p1433 N84-19369
Study of a tracking and data acquisition system for the 1990's. Volume 3: TDAS Communication Mission Model
[NASA-CR-175195] 10 p1434 N84-19371
Study of tracking and data acquisition system for the 1990's. Volume 4: TDAS space segment architecture
[NASA-CR-175212] 10 p1434 N84-19372
Tracking and data acquisition system for the 1990's. Volume 5: TDAS ground segment architecture and operations concept
[NASA-CR-175197] 10 p1434 N84-19373
Tracking and data acquisition system for the 1990's. Volume 7: TDAS space technology assessment
[NASA-CR-175199] 10 p1434 N84-19375
Tracking and data acquisition system for the 1990's. Volume 8: TDAS frequency planning
[NASA-CR-175200] 10 p1434 N84-19376
On generation, estimation, utilization, availability and compatibility aspects of geodetic and meteorological data
[AD-A135844] 10 p1436 N84-19388
Thermal test data analysis — satellite design
10 p1447 N84-19450
Flow processes in overexpanded chemical rocket nozzles. Part 1: Flow separation
[NASA-TM-77396] 10 p1450 N84-19470
An experimental study of thrust augmenting ejectors
[AD-A136929] 10 p1492 N84-19757
Effects of multiple cylinders on the formation of Von Karman vortex streets
[AD-A136930] 10 p1492 N84-19758
A high-speed data acquisition system for fluid mechanics measurements
[PB84-134592] 10 p1496 N84-19781
Earth tides 10 p1520 N84-19951
Water resources data for New York, water year 1982. Volume 3: Western New York
[PB84-119544] 10 p1527 N84-20003
Water resources data for North Dakota: Water year, 1982
[PB84-136589] 10 p1528 N84-20008
EPA (Environmental Protection Agency) model development for stable plume impingement on elevated terrain obstacles
[PB84-130491] 10 p1533 N84-20038
Software Acquisition Resource Expenditure (SARE) data collection methodology
[AD-A137084] 10 p1564 N84-20247
Artificial intelligence applied to the command, control, communications and intelligence of the US Central Command
[AD-A137205] 10 p1567 N84-20267
Free stream turbulence and density ratio effects on the interaction region of a jet in a cross flow
11 p1611 N84-20546
Aircraft ground vibration test instrumentation system
[AD-P002694] 11 p1660 N84-20829
MA-2026 environmental monitoring system
[DE84-006222] 11 p1676 N84-20938
Studies of the velocity structure of the Gulf Stream east of Cape Hatteras
[AD-P002663] 11 p1691 N84-21028
SANDUS MA164 digital data acquisition system specifications, November 6, 1982
[DE84-006502] 11 p1704 N84-21110
Accuracy of software development activity data: The software cost reduction project
[AD-A137639] 11 p1706 N84-21122
Automatic, self-nulling, spectral scanning ellipsometer: Software for the LSI-11 data acquisition system
[DE83-015007] 11 p1709 N84-21139
Flexible automated waveform recorder data acquisition program
[DE84-005553] 11 p1709 N84-21141
Summary of solar activity observed in the Mauna Loa Solar Observatory, 1980 - 1983
[PB84-137587] 11 p1760 N84-21484
Operational evaluation of a new 435-mHz radiation facility
[AD-A136474] 12 p1773 N84-21564
An experimental study of cylindrical antennas radiating in or near a lossy half space
[AD-A138206] 12 p1807 N84-21779
Technique for modal data acquisition in remote locations using hand portable instrumentation
[DE84-005755] 12 p1819 N84-21854
Comparison of satellite and in situ data
12 p1835 N84-21961
Physiological data acquisition system and motion sickness prevention trainer
[AD-A138361] 12 p1865 N84-22153
Application and enhancements of MOVIE.BYU
12 p1871 N84-22195
Program for a constructive physics
[DE84-005425] 12 p1916 N84-22486
Development and operation of a real-time data acquisition system for the NASA, Langley Research Center Differential Absorption Lidar
[NASA-CR-173397] 12 p1918 N84-22495
Description of the ACCESS data acquisition system
[DE84-005758] 12 p1919 N84-22506
Electro-Magnetic Compatability Test Facility, Bristol
[BAE-BT-10658] 13 p1935 N84-22586
An automated system for characterizing laser pulses
[AD-A138580] 13 p1995 N84-22945
Coherence study of geomagnetic fluctuations in frequency range .04 - 0.6 HZ between remote land sites
[AD-A138542] 13 p2011 N84-23042
Estimating monthly rainfall from geostationary satellite imagery over Amazonia, Brazil 13 p2016 N84-23069
The use of a small digital computer for on-line behavioral experiments
[AD-A138975] 13 p2025 N84-23126
Monitoring software development through dynamic variables 13 p2027 N84-23139
Publication in professional journals in science and engineering: A survey of editorial procedures and opinion
[AD-A138913] 13 p2064 N84-23385
Short time-scale surface changes on Io
13 p2075 N84-23447
The planet crossing asteroid survey: Progress in the analysis of populations and terrestrial-planet cratering rates 13 p2075 N84-23449
Mercury: Topographic and geologic data from Earth-based radar observations
13 p2089 N84-23533
Use of a small scale wind tunnel and model shop at Aeronautica Macchi as an industrial tool
14 p2097 N84-23585
General aviation pilot and aircraft activity survey
[PB84-154301] 14 p2100 N84-23602
Solar absorptance and thermal emittance of some common spacecraft thermal-control coatings
[NASA-RP-1121] 14 p2119 N84-23698
Small wind systems (field evaluation). Volume 4: Small wind system performance data
[DE84-006820] 14 p2173 N84-24014
Nimbus-Earth radiation budget instrument analysis
[NASA-CR-172318] 14 p2175 N84-24029
Nimbus-7 ERB (Earth Radiation Budget) Sub-Target Radiance Tape (STRT) data base
[PB84-149921] 14 p2177 N84-24039
Meteorological and climatological conditions affecting the vertical structure of visibility in Northern Germany
[AD-A139126] 14 p2179 N84-24052
Project Skywater data inventory, 1982-1983 SCPP (Sierra Cooperative Pilot Project) data inventory
[PB84-151489] 14 p2180 N84-24058
EPA (Environmental Protection Agency) complex terrain model development description of a computer data base from small hill impaction study no. 1, Cinder Cone Butte, Idaho
[PB84-161439] 14 p2182 N84-24072
Miniaturized Measurement and Testing (MMT) system — microprocessor system
[MBB-UA-767-83-O] 14 p2203 N84-24226

Bias in nonlinear regression
[AD-A139239] 14 p2218 N84-24308
Experimental design: Review and comment
[AD-A139268] 14 p2218 N84-24309
V/STOL wind-tunnel testing
[NASA-TM-85936] 15 p2253 N84-24528
CONUS Loran-C error budget: Flight test
[AD-A139871] 15 p2259 N84-24568
Orbital imagery: A cartographic solution
[INPE-2820-PRE/374] 15 p2357 N84-25143
Preserve the sense of Earth from space
[DE84-900854] 15 p2359 N84-25159
Computer program for treating and compiling ionospheric data
[FOA-C-30354-E] 15 p2391 N84-25346
Publications of the Jet Propulsion Laboratory 1982
[NASA-CR-173539] 15 p2417 N84-25510
Problems of system identification in flight vibration testing
[AGARD-R-720] 16 p2451 N84-25718
Multichannel detection systems available for flow diagnostics at AEDC
[AD-A132302] 16 p2452 N84-25722
Data acquisition and processing in sea-level test beds
16 p2453 N84-25730
Industrialization of emitters modules, part 2
[SEP-TS/SE/BT/10457/83-PT-2]
16 p2475 N84-25866
The telecommunications and data acquisition report
[NASA-CR-173565] 16 p2476 N84-25889
Goldstone R/D high speed data acquisition system
16 p2480 N84-25899
Demodulator and accumulator for the high-speed data acquisition system 16 p2480 N84-25900
An interpretive study of plate and shell buckling
[AD-A140487] 16 p2502 N84-26062
Earthnet: The story of images
[ESA-BR-18] 16 p2509 N84-26102
Parameter estimation and infiltration tests at the repeat facility 16 p2514 N84-26136
Field instrumentation for the passive solar commercial buildings monitoring program 16 p2515 N84-26142
Whole building performance monitoring: Measurements on baseline buildings 16 p2515 N84-26145
Improvement of flat plate collectors for solar energy conversion
[BMFT-FB-T-84-042] 16 p2519 N84-26167
Summary of experimental results
[AD-P002126] 16 p2525 N84-26212
Limited surface observations climatic summary (Lisocs). Bad Kreuznach, Germany (West)
[AD-A140243] 16 p2530 N84-26243
Human factors engineering. Part 1: Test procedures
[AD-A140343] 16 p2539 N84-26302
Automatic, self-nulling, spectral scanning ellipsometer: Software for the LSI-11 data acquisition system
[LBL-15525] 16 p2543 N84-26320
Process controlled measuring valve acquisition taking example by the noise measuring technique
[PTB-E-25] 16 p2554 N84-26389
Access to maintenance via Aircraft Integrated Data System (AIDS): Future aspects of the expanded AIDS
17 p2585 N84-26567
Intelligent flight data recorder: A contribution to on-condition maintenance and optimization of operation
17 p2585 N84-26568
On-line acquisition and processing of flight mechanical data on board the research aircraft of the Technische Universitaet, Brunswick 17 p2587 N84-26585
The economics of data acquisition computers for ST and MST radars 17 p2683 N84-27064
Costs of measuring leaf area index of corn
[E84-10162] 17 p2710 N84-27254
Field studies in the structural society project: Mineralized lineaments
[INPE-2876-NTE/205] 17 p2726 N84-27352
Status of solar measurements and data reduction for ERB-Nimbus 7 17 p2778 N84-27637
Plans for a fast image recording system at ESO
18 p2842 N84-28046
Aerosol backscatter lidar calibration and data interpretation
[NASA-CR-173738] 18 p2845 N84-28067
Spacecraft-aided aerial studies of atmosphere's electrostatic zones 18 p2864 N84-28184
Technical and meteorological qualifications of areal precipitation measurement by radar
18 p2888 N84-28316
The Defense Nuclear Agency intermediate dose program: An overview (effects of total-body irradiation on the performance of personnel in Army combat crews)
[AD-P003253] 18 p2905 N84-28420
Use of self assessment in estimating levels of skill retention
[AD-P003345] 18 p2911 N84-28485
Robotron digitalization unit 18 p2919 N84-28511
Utilization of AC and DC converters in the design and use of a system of acquisition retrieval of analogic data
18 p2944 N84-28669
Aerodynamic design and performance of a two-stage, axial-flow compressor (Baseline)
[AD-A141796] 19 p2966 N84-28798
Flight data file: STS-4 crew activity plan
[NASA-TM-85502] 19 p2978 N84-28881
Hydrographic data from the OPTOMA (Ocean Prediction Through Observations, Modeling and Analysis) program OPTOMA2, legs I and II, 31 July - 14 August, 1982
[AD-A141547] 19 p3061 N84-29424
Information search in judgment tasks: The effects of unequal cue validity and cost
[AD-A141712] 19 p3063 N84-29437
A data acquisition and real-time display system for testing a jet engine compressor
[AD-A142696] 20 p3197 N84-30301
Scan-angle and detector effects in Thematic Mapper radiometry 20 p3209 N84-30386
Status of the ESA-Earthnet LANDSAT-4 TM ground processing chain 20 p3210 N84-30391
Earth Observing System, conclusions and recommendations 20 p3219 N84-30454
Chesapeake Bay nutrient dynamics study
[PB84-190982] 20 p3229 N84-30524
Documentation of wave-height and tidal analysis programs for automated data acquisition and control systems
[AD-A142679] 20 p3251 N84-30634
Review of the Third Biennial Conference on Real-Time Computer Applications in Nuclear and Particle Physics
[DE84-002457] 20 p3266 N84-30720
A user-oriented laboratory data entry computer system designed to reduce errors
[DE84-011901] 20 p3267 N84-30730
Interfacing CAMAC to a high-speed multiprocessor bit slice data-acquisition system
[DE84-009986] 20 p3273 N84-30780
Selected bibliography of solar thermal literature. Volume 1: Bibliography
[DE84-011386] 20 p3315 N84-31052
Appropriate technology management information system
[DE84-010952] 20 p3315 N84-31056
Solar Radiation Data Directory: A guide to solar radiation and meteorological data collection activities in the US
[DE84-000095] 20 p3315 N84-31057
Distributed problem solving for air fleet control: Framework and implementations
[AD-A143168] 21 p3327 N84-31108
A data acquisition and analysis system for fiber creep testing
[DE84-012654] 21 p3422 N84-31709
The near-Earth magnetic field at 1980 determined from MAGSAT data
[E84-10170] 21 p3426 N84-31733
Global resources information system
21 p3428 N84-31747
Two years experience testing solar collectors in Brazil
[INPE-3221-RPE/461] 21 p3434 N84-31785
Introduction to Meteorological Satellite Center of Japan Meteorological Agency 21 p3446 N84-31864
Climatology of ozone at altitudes from 19,000 at 59,000 feet based on combined GASP and ozonesonde data
[NASA-TP-2303] 21 p3446 N84-31865
Regional wind energy assessment program
[DE84-011832] 21 p3448 N84-31878
Assessment of local influence
[AD-A143002] 21 p3473 N84-32014
Key to oceanographic records documentation
[PB84-186360] 21 p3519 N84-32299
The feasibility, practicality and utility of P-3 inflight refueling
[AD-A143419] 22 p3535 N84-32382
Telecommunications and data acquisition support for the Pioneer Venus Project: Pioneers 12 and 13, prelaunch through March 1984
[NASA-CR-173893] 22 p3539 N84-32403
Remote data acquisition system
[AD-A143347] 22 p3541 N84-32419
Design of a digital telemetry data collection system
[DE84-013916] 22 p3541 N84-32420
The Telecommunications and Data Acquisition Report
[NASA-CR-173885] 22 p3572 N84-32622
Availability of the DSN telemetry data system and its major elements, including the TWM assemblies
22 p3575 N84-32639
A study of DSN traveling wave maser system reliability
22 p3575 N84-32640
GCF compatibility with packets and data compression
22 p3575 N84-32641
Mojave base station implementation
22 p3575 N84-32643
Autonomous Integrated Receive System (AIRS) requirements definition. Volume 1: Executive summary
[NASA-CR-175261] 22 p3575 N84-32646
Data from tests of a R4 airfoil in the Langley 0.3-meter transonic cryogenic tunnel
[NASA-TM-85739] 23 p3690 N84-33385
A high resolution system for analogue recording and digital processing of measured values in fusion research
[JUEL-1909] 23 p3752 N84-33786
Forestry inventory based on multistage sampling with probability proportional to size
[INPE-2869-RPE/441] 23 p3763 N84-33855
The information network for a real-time controlled data acquisition of the Modular Optoelectronic Multispectral Scanner (MOMS) 23 p3765 N84-33863
The International Satellite Cloud Climatology Project (ISCCP) preliminary implementation plan, revision 1
[WCP-35-REV-1] 23 p3801 N84-34098
Optical acquisition, image and data compression
[AD-A143984] 23 p3816 N84-34197
A national program for data collection platforms: Information techniques for users
[INPE-3137-NTE/219] 24 p3858 N84-34456
History of on-orbit satellite fragmentations
[NASA-CR-171814] 24 p3859 N84-34461
Theoretical and experimental studies in support of the geophysical fluid flow experiment
24 p3923 N84-34832
Application of satellite data to tropic/subtropic moisture coupling 24 p3926 N84-34849
Storm severity detecion (RF)
24 p3927 N84-34857
Studies of lightning data in conjunction with geostationary satellite data 24 p3928 N84-34861
Overview of mesocale research Doppler lidar activities
24 p3928 N84-34863
The International Satellite Cloud Climatology Project (ISCCP) preliminary implementation plan
[WCP-20] 24 p3933 N84-34899
Mechanical properties of multi-year sea ice. Phase 1: Test results
[AD-A144132] 24 p3935 N84-34907
Evaluation of optical data collection instrumentation in the desert environment
[AD-P003847] 24 p3939 N84-34934
Autonomous microprocessor controllers for scientific research automation systems 24 p3941 N84-34946
Real-time solar magnetograph operation system software design and user's guide
[NASA-TM-86467] 24 p3945 N84-34976
Computer aided data acquisition and control of an internal combustion engine
[AD-A144425] 24 p3946 N84-34990
The geologic study of Taiwan area following up the acquisition of Taiwan SLAR imagery
24 p3957 N84-35051
Models for the active and quiescent regions on the RS CVN-type system 2 Pegasi (HD 224085)
24 p3978 N84-35197

DATA ADAPTIVE EVALUATOR/MONITOR
U DATA PROCESSING
U DATA REDUCTION
U DATA TRANSMISSION

DATA ANALYSIS
U DATA PROCESSING
U DATA REDUCTION

DATA BASE MANAGEMENT SYSTEMS
Mapping, charting and geodesy at the Defense Mapping Agency
[AD-A130344] 01 p0100 N84-10650
Compilation of cooperative data element dictionary of five federal agencies' systems for processing of technical report literature
[AD-A130797] 01 p0161 N84-11059
Proceedings of the 1982 Integrated Data Users Workshop
[DE83-014761] 01 p0162 N84-11066
Thermophysical properties for synthetic fuels
[DE83-016588] 02 p0191 N84-11239
Experimental hydrogen-fueled automotive engine design data-base project, volume 1
[DE83-017023] 02 p0204 N84-11331
Experimental hydrogen-fueled automotive engine design data-base project. Volume 2: Main technical report
[DE83-017025] 02 p0204 N84-11332
System for computer generated images and digital radar landmass simulation systems
[MBB-UA-688-82-OE] 02 p0275 N84-11797
Using PAFEC as a preprocessor for COSMIC/NASTRAN
[DE83-017179] 03 p0421 N84-12755
Development of a unique Physical Metrology Laboratory Recall System
[DE83-017415] 03 p0423 N84-12767

Real-time diagnostic-data-acquisition system for the Doublet 3 Tokamak fusion experiment
[DE83-015871] 03 p0445 N84-12927
The computerization of material safety data sheet information
[AD-A131992] 03 p0459 N84-13021
Information retrieval research support
[AD-A131990] 03 p0459 N84-13022
Triservice program for extending missile aerodynamic data base and prediction program using rational modeling
[AD-A132455] 04 p0481 N84-13166
Benchmarking the join operations of relational database machines
[AD-A132312] 04 p0584 N84-13861
Network file-storage system
[DE84-001068] 04 p0585 N84-13863
Concurrency control for resilient nested transactions
[AD-A132501] 04 p0589 N84-13891
Knowledge base management for model management systems
[AD-A132211] 04 p0615 N84-14062
Tools for the creation of IMS database designs from Entity-Relationship diagrams
[DE84-000592] 04 p0616 N84-14066
Standard format for data films — synchrotron radiation sources
[DE84-000345] 04 p0616 N84-14068
Management and display of data analysis environments for large data sets
[DE84-001414] 04 p0616 N84-14069
Design of relational database benchmarks
[AD-A133651] 05 p0719 N84-14710
A user's view of the Statistic Analysis Package (SAP): A new software quality assurance tool for FORTRAN programs 05 p0722 N84-14736
Benchmarking unstructured systems
[DE83-011175] 05 p0758 N84-14969
Data dictionary model for relational databases
[DE84-002584] 05 p0759 N84-14981
ALDS project: Motivation, statistical database management issues, perspectives, and directions
[DE84-001412] 05 p0760 N84-14983
Using PAFEC as a preprocessor for COSMIC/NASTRAN 06 p0858 N84-15593
FGGE/SMMR-30 tape specification and shipping letter description
[NASA-CR-170550] 06 p0935 N84-16074
Local automation model: Functional description
[AD-A133389] 06 p0935 N84-16077
Research topics in statistical database management
[DE84-002581] 06 p0935 N84-16080
Processing time using Datatrieve-11, clunks, and FORTRAN
[DE84-001706] 06 p0935 N84-16081
Joint Atomic Information Exchange Group information management project. Briefing outlining functions and specifications of JAIEG automated information management system
[DE84-001800] 06 p0936 N84-16082
C-3I local area networks: An assessment
[AD-A134194] 07 p0992 N84-16431
Software parts in FORTRAN 8X
[DE84-003621] 07 p1055 N84-16833
Hierarchical database decomposition: A technique for database concurrency control
[AD-A134356] 07 p1084 N84-17052
Database transfers between several systems
[DE84-003841] 07 p1085 N84-17056
Development and Use of Numerical and Factual Data Bases
[AGARD-LS-130] 07 p1085 N84-17059
Types of technical content of data 07 p1086 N84-17061
Sources generating and reporting numerical and factual data 07 p1086 N84-17062
Extraction and compilation of numerical and factual data 07 p1086 N84-17063
The evaluation/validation process: Practical considerations and methodology for the evaluation of phenomenological data 07 p1086 N84-17064
Dissemination of data and information 07 p1086 N84-17066
General review of numerical data bases 07 p1087 N84-17067
Progress toward a coordinated system of databases covering the engineering properties of materials 07 p1087 N84-17068
Data organisations and their management 07 p1087 N84-17069
Application of hierarchical data structures to geographical information systems
[AD-A134999] 08 p1177 N84-17670
Improvement of the memory allocation algorithm for evaluating query language expressions in the relational database handler CANTOR
[FOA-C-20506-D6] 08 p1213 N84-17916
Multidomain, multirecord-type Datatrieve-11 databases
[DE84-001707] 08 p1241 N84-18110
ARDS (Automated Requirements Development System) user's manual. Volume 1: Document analysis, revision
[AD-A135925] 09 p1398 N84-19128
Universal relation database systems
[AD-A135707] 09 p1404 N84-19176
Active databases as a paradigm for enhanced computing environments
[AD-A135808] 09 p1404 N84-19177
User's manual for the DOE Technical Information Center Integrated Record Input System (IRIS)
[DE83-013074] 09 p1405 N84-19178
An engineering data management system for computer aided design
[NLR-MP-82050-U] 09 p1405 N84-19180
Geographic operators for management of a data base for frequency planning — geographic data base for radio mobile systems 10 p1476 N84-19648
Software Acquisition Resource Expenditure (SARE) data collection methodology
[AD-A137084] 10 p1564 N84-20247
Requirements analysis for milestone tracking system, volume 2
[AD-A136841] 10 p1591 N84-20426
Benchmarking relational database machines' capabilities in supporting the database administrators' functions and responsibilities
[AD-A137413] 10 p1593 N84-20437
Algorithm to calculate proportional area transformation factors for digital geographic databases
[DE84-004456] 10 p1593 N84-20440
NASA Administrative Data Base Management Systems, 1983
[NASA-CP-2304] 11 p1747 N84-21403
Automated RTOP management system 11 p1748 N84-21406
RAMIS DBMS update 11 p1748 N84-21407
Intercenter Problem Reporting and Corrective Action System (PRACAS) 11 p1748 N84-21408
Integrating micro-computers with a centralized DBMS: ORACLE, SEED AND INGRES 11 p1748 N84-21409
Quantiative evaluation of 3 DBMS: ORACLE, SEED AND INGRES 11 p1748 N84-21410
Automated administrative data bases 11 p1749 N84-21411
Method for accessing distributed heterogeneous databases 11 p1749 N84-21412
DBMS as a tool for project management 11 p1749 N84-21416
Use of DBMS in multi-step information systems for LANDSAT 11 p1749 N84-21417
Experiment in benchmarking database systems
[DE84-003840] 11 p1750 N84-21423
The Application of New Technologies to Improve the Delivery of Aerospace and Defence Information
[AGARD-CP-357] 11 p1750 N84-21425
Automated document request and delivery systems in the United Kingdom 11 p1752 N84-21436
The representation of manipulable solid objects in a relational database 12 p1871 N84-22190
Managing geometric information with a data base management system 12 p1874 N84-22211
CAD/CAM data management 12 p1874 N84-22212
The virtual front end: Towards better management of solid geometric data 12 p1874 N84-22213
IGES, a key interface specification for CAD/CAM systems integration 12 p1874 N84-22215
User-friendly interface to the Roth relational database
[AD-A138153] 12 p1877 N84-22234
DATMAN FORTRAN user's guide version 3.0
[PB84-149251] 12 p1885 N84-22289
IPAD 2: Advances in Distributed Data Base Management for CAD/CAM
[NASA-CP-2301] 12 p1889 N84-22299
Materials properties data base computerization 12 p1889 N84-22303
Design versus manufacturing data base management requirements 12 p1890 N84-22304
A distributed data base management facility for the CAD/CAM environment 12 p1890 N84-22305
Data management for Computer-Aided Engineering (CAE) 12 p1890 N84-22306
CAD/CAM and scientific data management at Dassault 12 p1890 N84-22307
Distributed data base systems with special emphasis toward POREL 12 p1890 N84-22308
Control Data ICEM: A vendors IPAD-like system 12 p1890 N84-22309
RIM as an implementation tool for a distributed heterogeneous database 12 p1890 N84-22311
RIM as the data base management system for a material properties data base 12 p1891 N84-22312
A wind tunnel database using RIM 12 p1891 N84-22313
The database management system: A topic and a tool 12 p1891 N84-22316
The role of DBMS in design research 12 p1891 N84-22317
Impact of IPAD on CAD/CAM database university research 12 p1891 N84-22318
Automated hierarchical to CODASYL (Conference On Data Systems Languages) database interface schema translator
[AD-A138012] 12 p1918 N84-22496
The operator mapping between relational algebra operators and CODASYL based databases managed by a CODASYL DBMS
[AD-A138117] 12 p1918 N84-22497
Environment for scientific laboratories
[DE83-013848] 12 p1919 N84-22504
Concept of a secure information system consisting of the components operating system, data base, dialogue system, and applications
[BMFT-FB-DV-83-005] 12 p1920 N84-22508
Computer and database location in designing distributed computer systems 13 p2066 N84-23399
Order-preserving dynamic hashing schemes for associative searching in data base systems 13 p2066 N84-23400
Beyond the data base: Technology for information resource management
[AD-A138840] 13 p2067 N84-23402
Advanced Platform Systems Technology study. Volume 2: Trade study and technology selection
[NASA-CR-173522] 14 p2115 N84-23672
A methodology for benchmarking relational database machines
[AD-A139104] 14 p2202 N84-24217
Microprocessor Database Management Systems (DBMS): Evaluation and comparison of three commercial DBMS
[AD-A139560] 14 p2203 N84-24222
Distributed database control and allocation. Volume 1: Frameworks for understanding concurrency control and recovery algorithms
[AD-A138891] 14 p2203 N84-24223
Distributed database control and allocation. Volume 2: Performance analysis of concurrency control algorithms
[AD-A138892] 14 p2203 N84-24224
Distributed database control and allocation. Volume 3: Distributed database system designer's handbook
[AD-A138893] 14 p2203 N84-24225
OMEGA documentation
[DE84-007014] 14 p2206 N84-24239
Computer science and technology: Guide on data models in the selection and use of database management systems
[PB84-162189] 14 p2206 N84-24243
Development of a proposed standard for the exchange of scientific microcomputer programs
[PB84-157940] 14 p2207 N84-24244
I and W (Indications and Warning) data base management systems analysis
[AD-A139339] 14 p2247 N84-24497
RSRE speech data base recordings (1983). Part 1: Specification of vocabulary and recording procedure
[AD-A139361] 15 p2318 N84-24916
Ingres to dBASE and financial spreadsheet program packages
[AD-A139626] 15 p2391 N84-25351
Proceedings of the 2nd International Workshop on Statistical Database Management
[DE84-005866] 15 p2418 N84-25522
Technology information system: Transcript of typical demonstration
[DE84-009082] 15 p2418 N84-25523
Guide to reporting time in the financial information system at ANL
[DE84-009356] 15 p2419 N84-25524
Unified database development program
[AD-A140309] 16 p2567 N84-26471
Cockpit data management requirements (current technology aircraft)
[AD-A140643] 17 p2607 N84-26699
A system for managing meteorological data
[INPE-3029-PRE/466] 17 p2733 N84-27373
The implementation of a multi-backend database system (MDBS). Part 4: The revised concurrency control and directory management processes and the revised definitions of inter-process and inter-computer messages
[AD-A140874] 17 p2750 N84-27453
A data management and presentation tool for engineering and research
[NLR-MP-83044-U] 17 p2754 N84-27482

A relational database system for microcomputers: Analysis, design, implementation and performance evaluation 17 p2771 N84-27598
Managing distributed databases in partitioned networks 17 p2772 N84-27599
The preparation of the measurements at the PDS at the Padova Observatory: Report on an experience with the development of an astronomical data base environment 18 p2843 N84-28050
Storage, retrieval, and analysis of ST data 18 p2843 N84-28051
The database management module of the SPLICE system
[AD-A132795] 18 p2945 N84-28671
Applications programs to facilitate use of a DBMS to store and retrieve graphics displays (INGRED 2)
[AD-A138059] 18 p2945 N84-28672
Systems development and applications software in medical facilities
[AD-A141306] 18 p2945 N84-28674
System 2000 to dBASE 2 and back again
[DE84-008031] 18 p2945 N84-28677
A data management system for digital raster maps 19 p3041 N84-29292
Meteorological interactive data display system (MIDDA)
[AD-A141864] 19 p3059 N84-29406
A distributed memory management system for PASM
[AD-A141360] 19 p3072 N84-29487
Design methodology for back-end database machines in distributed environments
[AD-A142122] 19 p3072 N84-29491
A new approach to database logic
[AD-A141130] 19 p3115 N84-29795
Performance evaluation tools for a multi-backend database system
[AD-A141786] 19 p3116 N84-29800
Success with Data Management 4 at the DOE Pinellas Plant
[DE84-008021] 19 p3116 N84-29802
Report on functional design specification for the automated alphanumeric data entry system
[AD-A142518] 20 p3266 N84-30725
Computer science and technology: Report on approaches to database translation
[NBS-SP-500-115] 20 p3268 N84-30739
Enhancements to the codata definition language
[DE84-010579] 20 p3274 N84-30783
The application of a general purpose data base management system to design automation
[AD-A141999] 20 p3314 N84-31048
Common data input-retrieval system
[DE84-010972] 20 p3315 N84-31053
DBMS conversion case study
[DE84-011205] 20 p3315 N84-31054
APSE database user scenario
[AD-P003593] 21 p3341 N84-31198
Activities of the Remote Sensing Information Sciences Research Group
[E84-10177] 21 p3427 N84-31739
NASA pilot land data system 21 p3427 N84-31741
Advanced data structure and geographic information systems 21 p3427 N84-31742
Applying artificial intelligence to large networks 21 p3428 N84-31743
Knowledge based engineering for spatial database management and use 21 p3428 N84-31745
Annotated bibliography of global resources information systems related publications 21 p3428 N84-31746
The potential of AI techniques for remote sensing 21 p3428 N84-31748
Computer programs for summarizing climatic data stored in the National Fire Weather Data Library
[PB84-197011] 21 p3449 N84-31886
Pilot climate data system user's guide
[NASA-TM-86084] 21 p3463 N84-31956
Software documentation support
[AD-P003487] 21 p3513 N84-32254
A design automation database for computer aided design of computer systems 21 p3517 N84-32278
Logical optimization for database uniformization
[NASA-CR-173836] 21 p3518 N84-32282
Energy Data Base. Serial titles with ISSN listing
[DE84-003876] 21 p3518 N84-32289
Energy Data Base corporate author entries
[DE84-003877] 21 p3518 N84-32290
Data base management system of the National Low-Level Radioactive Waste Management Program
[DE84-012789] 21 p3519 N84-32291
An evaluation of the system 2000 data base management system for use in major item system mapping
[DE84-013130] 21 p3519 N84-32296
Summary of research performed at MIT Laboratory for Computer Science
[AD-A143459] 22 p3638 N84-33064
An online directory of databases for material properties
[DE84-013210] 22 p3643 N84-33099
A methodology for the distribution of databases 22 p3670 N84-33265
NASA Administrative Data Base Management Systems, 1984
[NASA-CP-2323] 22 p3671 N84-33266
Strategies for converting to a DBMS environment 22 p3671 N84-33267
Effective organizational solutions for implementation of DBMS software packages 22 p3671 N84-33268
The administrative window into the integrated DBMS 22 p3671 N84-33270
Langley experience with ADABAS/NATURAL 22 p3671 N84-33272
Strip and load data 22 p3672 N84-33273
NATURAL graphics 22 p3672 N84-33274
Asynchronous file transfer to IBM PC's 22 p3672 N84-33275
The NBS data management technology program 22 p3672 N84-33277
Data communication between data terminal equipment and the JPL administrative data base management system 22 p3672 N84-33278
An exploratory analysis of the relationship between media richness and managerial information processing
[AD-A143503] 22 p3674 N84-33293
Retrieval for remote sensing image data base with multimedia user interface 23 p3766 N84-33870
User's guide for an IBM PL/I implementation of the international standard organization DIS 8211 information processing-specification for a data descriptive file for information interchange
[ORNL/CSD-TM-207] 23 p3814 N84-34188
The domain name system
[AD-A143818] 23 p3817 N84-34201
Sandia National Laboratories administrative data processing systems
[DE84-014328] 23 p3817 N84-34202
Planetary Data Workshop, part 1
[NASA-CP-2343-PT-1] 23 p3841 N84-34366
Planetary data definition 23 p3841 N84-34367
User requirements 23 p3841 N84-34368
Configuration and implementation 23 p3842 N84-34369
Imaging data 23 p3842 N84-34370
Laboratory 23 p3842 N84-34375
Planetary Data Workshop, part 2
[NASA-CP-2343-PT-2] 23 p3842 N84-34376
Database management 23 p3843 N84-34377
Studies of lightning data in conjunction with geostationary satellite data 24 p3928 N84-34861
Mesoscale and severe storms (Mass) data management and analysis system 24 p3929 N84-34871
Structural approach to design of multiprocessor database management system 24 p3942 N84-34953
Implementation of logical query languages for databases
[AD-A144435] 24 p3947 N84-34992
On extending functional capabilities of cellular-logic devices for database management 24 p3959 N84-35067
A general scientific information system to support the study of climate-related data
[NASA-TM-86152] 24 p3968 N84-35128

DATA BASES

Omega Data Bank
[AD-A131089] 01 p0008 N84-10046
A review of preflight estimates of real-gas effects on space shuttle aerodynamic characteristics 01 p0020 N84-10129
Space shuttle orbiter reaction control subsystem flight data anomalies 01 p0021 N84-10131
Subsonic longitudinal performance coefficient extraction from shuttle flight data: An accuracy assessment for determination of data base updates 01 p0026 N84-10163
Compiling the space shuttle wind tunnel data base: An exercise in technical and managerial innovators 01 p0026 N84-10166
Liquid chromatographic analysis of nitrocellulose-base propellants
[AD-A129005] 01 p0052 N84-10333
Empirical study of HF air to ground communications at the Research Facilities Center based on radio logs, 1973 - 1982
[PB83-222588] 01 p0068 N84-10447
Atlas of mean sea-level pressure
[AD-A130207] 01 p0107 N84-10697
Proceedings of the Conference on Applied Natural Language Processing
[AD-A129824] 01 p0121 N84-10787
The use and value of Defense Technical Information Center products and services
[AD-A130805] 01 p0161 N84-11061
Combustion performance and heat transfer characterization of LOX/hydrocarbon type propellants, volume 2
[NASA-CR-171714] 02 p0202 N84-11318
Experimental hydrogen-fueled automotive engine design data-base project, volume 1
[DE83-017023] 02 p0204 N84-11331
Experimental hydrogen-fueled automotive engine design data-base project. Volume 2: Main technical report
[DE83-017025] 02 p0204 N84-11332
System for computer generated images and digital radar landmass simulation systems
[MBB-UA-686-82-OE] 02 p0275 N84-11797
Documentation for the machine-readable version of the Fourth Cambridge Radio Survey Catalogue (4C) (Pilkington, Gower, Scott and Wills 1965, 1967)
[NASA-TM-85456] 02 p0305 N84-12002
Documentation for the machine-readable version of the revised Catalogue of Stellar Rotational Velocities of Uesugi and Fukuda (1982)
[NASA-TM-85457] 02 p0305 N84-12003
Electrical power trade-offs 03 p0344 N84-12232
Integrated Cuing Requirements (ICR) study: Demonstration data base and users guide
[AD-A131119] 03 p0459 N84-13019
Source header list, supplement 1
[AD-A131800] 03 p0459 N84-13024
Triservice program for extending missile aerodynamic data base and prediction program using rational modeling
[AD-A132455] 04 p0481 N84-13166
Experimental aerodynamic characteristics of missiles with square cross sections
[AD-A132278] 04 p0489 N84-13215
Flat-plate solar-collector performance data base and user's manual
[DE83-011993] 04 p0558 N84-13682
Specification and interpretation of data model semantics: An integration of two approaches
[PB83-249714] 04 p0584 N84-13856
Detailed introduction and reference manual for: The network-shared-memory distributed database system
[DE83-017547] 04 p0585 N84-13865
An interdisciplinary oceanographic database
[CSIR-T/SEA-8207] 04 p0616 N84-14064
USAF advanced terrestrial energy study. Volume 1: Project summary
[AD-A133803] 05 p0699 N84-14588
Design of relational database benchmarks
[AD-A133651] 05 p0719 N84-14710
Computer program development specification for Ada integrated environment: KAPSE (Kernel Ada Programming Support Environment)/Database, type b5, B5-AIE(1).KAPSE(1)
[AD-A134092] 05 p0726 N84-14766
Computer program development specification for Ada integrated environment: Virtual memory methodology, B5-AIE(1).VMM(2)
[AD-A134091] 05 p0726 N84-14767
Computer-Aided Structural Engineering (CASE) project. User's guide: Computer program to Calculate Shear, Moment and Thrust (CSMT) from stress results of a two-dimensional finite element analysis
[AD-A134089] 05 p0726 N84-14768
Nonlinear regression analysis methodology for the estimation of detection probabilities from empirical data
[AD-A134078] 05 p0727 N84-14770
Photonuclear data index, 1973-1981, supplement 2 to NBS (National Bureau of Standards) special publication 380
[PB83-251363] 05 p0746 N84-14898
A new method for generating and maintaining rigid formats in NASTRAN 06 p0860 N84-15605
USAF advanced terrestrial energy study. Volume 3: Parameter survey
[AD-A133501] 06 p0874 N84-15685
USAF advanced terrestrial energy study. Volume 4: Analysis, data, and bibliography
[AD-A133514] 06 p0874 N84-15686
Development of generic mobility-terrain data bases: Investigation of critical soil parameters
[AD-A133595] 06 p0878 N84-15715
A new treatment of incomplete information and retrieval in relational data bases 06 p0934 N84-16069
An interactive soils information system. Users manual
[AD-A133480] 06 p0935 N84-16078
An inventory of state natural resources information systems — including Puerto Rico and the U.S. Virgin Islands
[E84-10072] 07 p1020 N84-16619

Status and future of the use of numerical and factual data 07 p1086 N84-17060
The evaluation/validation process: Data from disciplines resting on good theoretical foundations 07 p1086 N84-17065
Aircrew Automated Escape Systems (AAES) In-service Usage Data Analyses, volume 2 [AD-A134834] 08 p1100 N84-17155
On acyclic database decompositions [AD-A135105] 08 p1209 N84-17887
Notions of dependency satisfaction [AD-A135303] 08 p1211 N84-17902
Hexagonal data base study [AD-A135532] 08 p1212 N84-17907
Query processing and data allocation in distributed database systems [MATH-CENTRE-TRACTS-156] 08 p1239 N84-18101
Automated data base implementation requirements for the avionics planning baseline, Army [AD-A135259] 08 p1240 N84-18103
Multidomain, multirecord-type Datatrieve-11 databases [DE84-001707] 08 p1241 N84-18110
The ISPM common data file 09 p1263 N84-18245
File searching problems in logic programming systems [AD-A136522] 09 p1367 N84-18923
Data and analysis center for software: An IAC in transition [AD-A135985] 09 p1369 N84-18936
Circuit Board Intermediate Language (CBIL): A data base for circuit board description [IND-FB-110] 09 p1369 N84-18942
VLSI architectures for pattern analysis and image database management 09 p1403 N84-19163
Functional and database architecture design [AD-A136275] 09 p1403 N84-19169
Distributed knowledge base systems for diagnosis and information retrieval [AD-A136577] 09 p1404 N84-19171
Rule-based statistical calculations on a database abstract [AD-A136838] 09 p1404 N84-19172
Active databases as a paradigm for enhanced computing environments [AD-A135806] 09 p1404 N84-19177
Automated en route air traffic control algorithmic specifications. Volume 5: Data specification [AD-A136851] 10 p1426 N84-19325
Telemetry simulation assembly implementation in the DSN 10 p1475 N84-19633
Field strength predictions using a computer and a terrain data base — terrestrial mobile radio systems 10 p1476 N84-19643
Field strength prediction with a topographical data base: Experience gained in the Federal Republic of Germany — terrestrial mobile radio systems 10 p1476 N84-19644
TM data available at EDC, and EDC TM data handling and processing plan 10 p1524 N84-19960
The NEPHOS program: Preliminary results 10 p1536 N84-20061
AFOS (Automation of Field Operations and Services)-era forecast verification [PB84-129303] 10 p1541 N84-20098
Guide to the development of a human factors engineering data retrieval system [AD-A136918] 10 p1554 N84-20187
Development of a VOR/DME model for an advanced concepts simulator [NASA-TM-85717] 11 p1604 N84-20505
Speech recognition: Acoustic phonetic and lexical knowledge representation [AD-A137697] 11 p1643 N84-20742
Videodisc premastering facility: Technical evaluation [PB84-135821] 11 p1661 N84-20840
The microcomputer knowledge base: Introduction and user instructions [AD-A137694] 11 p1704 N84-21108
Integrity in database systems 11 p1747 N84-21400
Action Information Management System (AIMS): A user's view 11 p1748 N84-21405
NASA Scientific and Technical Information System (STI) and new directory of numerical data bases 11 p1749 N84-21413
NASA-wide standard administrative systems 11 p1749 N84-21415
Where to find it. Information resource centers, A quick reference booklet [AD-A133117] 11 p1750 N84-21419
Scientific numeric databases 11 p1751 N84-21430
The standardization of bibliographic data 11 p1751 N84-21432
Multidimensional modeling of atmospheric effects and surface heterogeneities on remote sensing 12 p1833 N84-21945
Data engineering systems: Computerized modeling and data bank capabilities for engineering analysis 12 p1873 N84-22203
Highly parallel processing of relational databases [AD-A137961] 12 p1877 N84-22231
User-friendly interface to the Roth relational database [AD-A138153] 12 p1877 N84-22234
FEED (Field exploitation of Elevation Data) software documentation [AD-A137977] 12 p1879 N84-22246
Reliability model demonstration study, volume 2 [AD-A138197] 12 p1881 N84-22263
Functional requirements for the development and use of a software-cost database [AD-B079996] 12 p1885 N84-22287
DATMAN FORTRAN user's guide version 3.0 [PB84-149251] 12 p1885 N84-22289
Top-down statistical estimation on a database [AD-A138318] 12 p1896 N84-22351
Interactive Hazardous Materials Information System (HMIS): Description and assessment [AD-A138329] 12 p1919 N84-22500
Diophantine inferences from statistical aggregates on few-valued attributes [AD-A138365] 12 p1919 N84-22501
Cost estimation model for advanced planetary programs, fourth edition [NASA-CR-173495] 13 p1936 N84-22590
Analysis of spacecraft charging, particle beams and geophysical data bases [AD-A138632] 13 p1940 N84-22616
Optimal file allocation problems for distributed data bases in unreliable computer networks, 2 [AD-P002913] 13 p1981 N84-22864
Machine vision: Three generations of commercial systems [AD-A139037] 13 p2024 N84-23123
Software Engineering Laboratory (SEL) data base reporting software user's guide and system description. Volume 1: Introduction and user's guide [NASA-TM-85606] 13 p2025 N84-23129
Software Engineering Laboratory (SEL) data base reporting software user's guide and system description. Volume 2: Program descriptions [NASA-TM-85609] 13 p2025 N84-23130
An approach to software baseline generation 13 p2028 N84-23149
Central Demand Data Base (CDDB) End Item Code (EIC) [AD-P002607] 13 p2059 N84-23353
Increasing the Contractor/Subcontractor/Vendor bidding lists [AD-P002836] 13 p2063 N84-23381
Computer and database location in designing distributed computer systems 13 p2066 N84-23399
Order-preserving dynamic hashing schemes for associative searching in data base systems 13 p2066 N84-23400
The planet crossing asteroid survey: Progress in the analysis of populations and terrestrial-planet cratering rates 13 p2075 N84-23449
Galilean satellite multispectral data base production 13 p2087 N84-23521
C3I modeling and simulation [AD-A139264] 14 p2140 N84-23830
Survey of automated statewide natural resource information systems [AD-A139017] 14 p2170 N84-23996
Distributed database control and allocation. Volume 1: Frameworks for understanding concurrency control and recovery algorithms [AD-A138891] 14 p2203 N84-24223
Distributed database control and allocation. Volume 2: Performance analysis of concurrency control algorithms [AD-A138892] 14 p2203 N84-24224
Distributed database control and allocation. Volume 3: Distributed database system designer's handbook [AD-A138893] 14 p2203 N84-24225
Advanced document retrieval system [AD-A139385] 14 p2247 N84-24498
Experiments to correct a digital map data base using scene analysis [AD-A139447] 14 p2248 N84-24499
Vegetation, land-use and seasonal albedo data sets: Documentation of archived data tape [E84-10133] 15 p2357 N84-25142
Photogrammetric research at the Royal Institute of Technology, Stockholm, Sweden 15 p2358 N84-25147
A computer program for mapping regions in a geographic data base with raster structure [FOA-C-20529-D8] 15 p2390 N84-25340
Middle East Technical University Journal of Pure and Applied Sciences, volume 15, no. 2 15 p2401 N84-25406
Query execution in the distributed RAP DBM systems 15 p2401 N84-25409
Data base dependent aggregation operators in a map oriented information system [FOA-C-30347-E1] 15 p2417 N84-25514
Results of demonstration of JRIM prototype data base [AD-A139772] 15 p2418 N84-25518
The embedded operating system project [NASA-CR-173438] 16 p2542 N84-26319
Functions in first order data bases 16 p2565 N84-26461
The Pilot Land Data System: Report of the Program Planning Workshops [NASA-TM-86250] 16 p2566 N84-26488
Optimization of query processing in distributed databases systems 16 p2567 N84-26474
Far infrared supplement: Catalog of infrared observations [NASA-RP-1119] 16 p2574 N84-26519
Catalog of infrared observations including: Bibliography of infrared astronomy and index of infrared source positions [NASA-RP-1118] 16 p2574 N84-26520
Operational loads on B-747 aircraft: Design assumptions, actual experience and maintenance aspects 17 p2585 N84-26569
Operational loads on B-747 aircraft: Design assumptions, actual experience and maintenance aspects [NLR-MP-83051-U] 17 p2606 N84-26697
Research issues in training device design: The organization of a data base [AD-A140815] 17 p2611 N84-26710
Techniques for the analysis of spectral and orbital congestion in space systems [AD-A140841] 17 p2614 N84-26734
MST radar data-base management 17 p2696 N84-27175
A system for managing meteorological data [INPE-3029-PRE/466] 17 p2733 N84-27373
Where and how variables are structured in the ZX81/TS1000/ TK82C/CP200 memory [INPE-3014-PRE/457] 17 p2749 N84-27450
The implementation of a multi-backend database system (MDBS). Part 4: The revised concurrency control and directory management processes and the revised definitions of inter-process and inter-computer messages [AD-A140874] 17 p2750 N84-27453
Design of an integrated software system based on the relational data base model [AD-A140628] 17 p2752 N84-27470
DANTE: A semantic data model for use in the construction sector [KU-IB-17/83] 17 p2754 N84-27480
Space station needs, attributes and architectural options study [NASA-CR-173699] 18 p2804 N84-27798
Space station needs, attributes and architectural options study. Volume 7-5A: Data book. Mission analysis part A [NASA-CR-173701] 18 p2805 N84-27801
Space station needs, attributes and architectural options study. Volume 7-5B: Data book. Mission analysis part B [NASA-CR-173711] 18 p2805 N84-27802
A study of space station needs, attributes and architectural options. Volume 2: Technical. Book 1: Mission requirements. Appendixes 1 and 2 [NASA-CR-173769] 18 p2805 N84-27805
The preparation of the measurements at the PDS at the Padova Observatory: Report on an experience with the development of an astronomical data base environment 18 p2843 N84-28050
Data bank on Pacific and Indian Oceans 18 p2856 N84-28140
Streamflow modelling [AD-A141281] 18 p2866 N84-28198
Radar meteorology for flight assistance formation of data bank for use of radar and satellite data 18 p2887 N84-28322
NEMAR plotting computer program [NASA-CR-165631] 18 p2920 N84-28516
PASCAL statistical procedures package (PSPP) [AD-A141049] 18 p2921 N84-28524
A cost data base for the development of technical/scientific software [NLR-TR-83047-U] 18 p2922 N84-28529
The design of an expert system for contract price analysis [AD-A140927] 18 p2943 N84-28662
Integrated Record Input System (IRIS) for the DOE/Technical Information Center [DE84-008494] 18 p2945 N84-28675

System 2000 to dBASE 2 and back again
[DE84-008031] 18 p2945 N84-28677
C3I system modification and EMC (electromagnetic compatibility) methodology, volume 1
[AD-A141420] 19 p3004 N84-29041
Computer-aided mapping in the USA: Experiences from a study tour in November 1983
[FOA-C-20533-D8] 19 p3042 N84-29304
Design and performance of a distributed relational data base system
[AD-A142177] 19 p3073 N84-29495
Kernel Ada Programming Support Environment (KAPSE) interface team, public report, volume 3
[AD-A141576] 19 p3077 N84-29523
On the equivalence of logical databases
[AD-A141541] 19 p3085 N84-29579
Evaluating the availability, role, and performance of subcontractors in the aerospace industry
[AD-A141406] 19 p3114 N84-29788
A note on lossless database decompositions
[AD-A141488] 19 p3116 N84-29797
Performance evaluation tools for a multi-backend database system
[AD-A141786] 19 p3116 N84-29800
Flight characteristics of a manned, low-speed, controlled deep stall vehicle
[NASA-TM-86041] 20 p3128 N84-29863
Data integrity factors affecting the construction of the mapping, charting, and geodesy data base
[NASA-CR-173835] 20 p3228 N84-30511
Shelf mounted ocean thermal energy conversion platform, revised preliminary report
[PB84-185230] 20 p3237 N84-30551
Zones
[PB84-174325] 20 p3248 N84-30616
Global Biology Research Program: Biogeochemical Processes in Wetlands
[NASA-CP-2316] 20 p3256 N84-30665
A framework for wetlands research: Development of a wetlands data base 20 p3256 N84-30668
DCP (Distributed software engineering control process): Experience in bootstrapping an Ada (trademark) environment
[AD-P003424] 20 p3270 N84-30756
The application of a general purpose data base management system to design automation
[AD-A141999] 20 p3314 N84-31048
Defense Technical Information Center referral data bank directory
[AD-A138400] 20 p3315 N84-31051
Common data base experiment: Detection and location capacity
[FOA-C-20538-T1] 20 p3316 N84-31058
APSE database user scenario
[AD-P003593] 21 p3341 N84-31198
Aerothermodynamic data base, phase C
[NASA-CR-173862] 21 p3351 N84-31259
Hard Coatings for Tribological Systems Operating under Extreme Conditions
[DE84-009660] 21 p3368 N84-31369
RFQ simulation code
[DE84-011385] 21 p3387 N84-31499
NASA pilot land data system 21 p3427 N84-31741
Advanced data structure and geographic information systems 21 p3427 N84-31742
Knowledge based engineering for spatial database management and use 21 p3428 N84-31745
Annotated bibliography of global resources information systems related publications 21 p3428 N84-31746
Inventory of numeric data for carbon dioxide research, revision 1
[DE84-013683] 21 p3449 N84-31881
DMA and CIG: A shotgun wedding
[AD-P003459] 21 p3510 N84-32236
Low-Altitude Database Development Evaluation and Research (LADDER)
[AD-P003468] 21 p3511 N84-32243
An approach to a standardized simulator data base
[AD-P003469] 21 p3511 N84-32244
Data base generation: Improving the state-of-the-art
[AD-P003470] 21 p3512 N84-32245
Synthetic aperture radar simulation
[AD-P003474] 21 p3512 N84-32246
Data base management of software development
[AD-P003486] 21 p3513 N84-32253
A design automation database for computer aided design of computer systems 21 p3517 N84-32278
A statistical classification model for a database system 21 p3517 N84-32279
A non-first-normal-form relational database model 21 p3517 N84-32280
A physical database design methodology using the property of separability 21 p3517 N84-32281
New technical information media
[CSIR-TRANS-1731] 21 p3518 N84-32284
Resource contention, synchronization, and information structure in distributed systems
[AD-A143037] 21 p3518 N84-32287
Energy Data Base corporate author entries
[DE84-003877] 21 p3518 N84-32290
Review of existing environmental and natural resource data bases
[DE84-012039] 21 p3519 N84-32292
Key to oceanographic records documentation
[PB84-186360] 21 p3519 N84-32299
OTS (Office of Toxic Substances) Information Architecture Notebook
[PB84-188655] 21 p3520 N84-32301
Artificial Intelligence-Robotics applications to Navy aircraft maintenance
[AD-A143219] 22 p3529 N84-32345
Pilot study and evaluation of a SMMR-derived sea ice data base
[NASA-CR-175255] 22 p3614 N84-32896
An online directory of databases for material properties
[DE84-013210] 22 p3643 N84-33099
Concurrency control using locks in distributed databases 22 p3670 N84-33282
Deduction in nonhorn databases 22 p3670 N84-33283
Scientific and technical information transfer: Issues and options
[RAND/N-2131-NSF] 22 p3673 N84-33286
Physics in Europe: A data file of selected research
[AD-A143428] 22 p3674 N84-33289
An evaluation of two reliability and maintainability information systems
[AD-A143438] 22 p3674 N84-33290
Notes for medical catalogers, 1983
[PB84-195874] 22 p3675 N84-33296
Advanced development program, books 4 and 5
[NAS 1.15:86652-BK-4/5] 23 p3699 N84-33441
European plans for handling off-line tasks of the ERS-1 23 p3784 N84-33997
Automatic drawing of synoptic charts
[INPE-3146-RPE/456] 23 p3800 N84-34094
Name server design for distributed systems
[AD-A143634] 23 p3812 N84-34173
User's guide for an IBM PL/I implementation of the international standard organization DIS 8211 information processing-specification for a data descriptive file for information interchange
[ORNL/CSD-TM-207] 23 p3814 N84-34188
Source header list, supplement 2
[AD-A143800] 23 p3835 N84-34325
The creation of a central database on a microcomputer network
[AD-A143875] 23 p3835 N84-34326
Trends in Planetary Data Analysis. Executive summary of the Planetary Data Workshop
[NASA-CP-2333] 23 p3841 N84-34363
Non-imaging remote sensing data 23 p3842 N84-34371
In situ data 23 p3842 N84-34372
Radio science 23 p3842 N84-34373
Earth-based planetary data 23 p3842 N84-34374
Database management 23 p3843 N84-34377
NASA climate data catalog
[NASA-TM-86085] 24 p3923 N84-34827
Pilot climate data system: User's guide for charts subsystem
[NASA-TM-86151] 24 p3945 N84-34975
Implementation of logical query languages for databases
[AD-A144435] 24 p3947 N84-34992
Approaches for updating databases with incompleted information and nulls
[AD-A144319] 24 p3969 N84-35130

DATA BUSSES
U CHANNELS (DATA TRANSMISSION)

DATA COLLECTION PLATFORMS
Satellite data relay and platform locating in oceanography. Report of the In Situ Ocean Science Working Group
[NASA-TM-85443] 12 p1860 N84-22116
Phase modulator in 41.650 MHz
[INPE-3177-PRE/544] 21 p3391 N84-31515
DCP systems and characteristics
[INPE-2948-PRE/431] 22 p3614 N84-32899

DATA COMPACTION
U DATA COMPRESSION

DATA COMPRESSION
A data compressor system
[INPE-2847-PRE/389] 02 p0270 N84-11766
Investigation of digital encoding techniques for television transmission
[NASA-CR-171734] 07 p0991 N84-16421
Bit weighting and soft decision demodulation for image compression & error control
[AD-A134187] 07 p1054 N84-16825
Very large scale integration logical and physical structures of VLSI systems
[BMFT-FB-T-83-267] 10 p1488 N84-19730
An interpolation and compaction technique for gridded data
[AD-A137107] 10 p1569 N84-20278
Compression algorithm for data analysis in a radio link (preparation of PACEM 2 experiment)
[CRPE-NT-121] 13 p1984 N84-22881
Image compression: A 2-dimensional run-length coding 13 p2030 N84-23162
Adaptive hybrid picture coding
[AD-A138676] 13 p2033 N84-23184
Feasibility studies of optical processing of image bandwidth compression schemes
[AD-A138736] 13 p2043 N84-23254
Compression and Decompression of Imaging Sensor Signals (CADISS): An image (de)compression system for deep space application
[NLR-MP-83028-U] 15 p2390 N84-25339
A parallel method for natural texture synthesis
[AD-A139889] 15 p2398 N84-25385
Signal detection and block truncation coding for image compression
[AD-A141162] 18 p2829 N84-27958
Data compression techniques for astronomy 18 p2842 N84-28041
Interfacing CAMAC to a high-speed multiprocessor bit slice data-acquisition system
[DE84-009966] 20 p3273 N84-30780
Three image compression algorithms for Compression and Decompression of Imaging Sensor Signals (CADISS)
[NLR-MP-83027-U] 20 p3275 N84-30791
GCF compatibility with packets and data compression 22 p3575 N84-32541
Application of the discrete cosine transform to remote sensing image data compression 23 p3779 N84-33964
Optical acquisition, image and data compression
[AD-A143984] 23 p3816 N84-34197
VISSR IR grid data processing 24 p3922 N84-34821
RECOZ data reduction and analysis: Programs and procedures
[NASA-TM-87365] 24 p3944 N84-34973

DATA CONVERSION ROUTINES
NT SUBROUTINES
Guide to software conversion management
[PB84-118314] 09 p1370 N84-18045
Computerized version of the summary of binary phase diagrams
[DE84-009405] 15 p2299 N84-24800
Software conversion history of the Flight Dynamics System (FDS)
[NASA-CR-175257] 22 p3539 N84-32404

DATA CONVERTERS
NT ANALOG TO DIGITAL CONVERTERS
NT DIGITAL TO ANALOG CONVERTERS
Decoder for manually digitized radar observations
[PB84-127539] 09 p1351 N84-18826
A dual digital to video converter and color video inserter for avionics symbology and messages
[AD-A143772] 23 p3693 N84-33408
Applique rate converter
[AD-D011161] 23 p3751 N84-33777
RECOZ data reduction and analysis: Programs and procedures
[NASA-TM-87365] 24 p3944 N84-34973
An automated technique for determining cloud velocity from GMS data. 1: The design and construction of a scanning converter 24 p3956 N84-35049

DATA CORRELATION
NT SIGNAL ANALYSIS
An algorithm for multiple target tracking and data correlation
[AD-A131313] 02 p0273 N84-11786
Report on new calculations of the magnetic potential of the Earth
[NASA-TM-77329] 05 p0702 N84-14608
Spaceborne SAR sensor architecture 07 p0987 N84-16394
The ISPM common data file 09 p1263 N84-18245
Bias in polarimetric estimators — binary stars 09 p1412 N84-19235
Creep-rupture reliability analysis
[NASA-CR-3790] 10 p1516 N84-19925
Geometric performance: Line to line displacement analysis 10 p1524 N84-19983
Mach number correlation for a two-dimensional helicopter rotor-blade analysis in the tip region 12 p1765 N84-21509
Evaluation of solar angle variation over digital processing of LANDSAT imagery — Brazil
[E84-10140] 16 p2507 N84-26088

Field data observed during the geological excursion in the west-central region of the Sul-Riogrande Shield
[E84-10148] 16 p2508 N84-26094
Evaluation of SIR-A (Shuttle Imaging Radar) images from the Tres Marias region (Minas Gerais State, Brazil) using derived spatial features and registration with MSS-LANDSAT images
[E84-10148] 16 p2508 N84-26096
Characteristics of the MSFC, PDS microdensitometer 18 p2840 N84-26026
Strong earthquake spatial-temporal correlations 18 p2860 N84-26162
Process Research On Polycrystalline Silicon Material (PROPSM)
[NASA-CR-173753] 18 p2869 N84-26214
Satellite-Derived Sea Surface Temperature: Workshop-2
[NASA-CR-173740] 18 p2892 N84-26355
Evaluation of LANDSAT-D Thematic Mapper performance as applied to hydrocarbon exploration
[E84-10154] 19 p3038 N84-29275
Development and support structures for high-power solar arrays 19 p3048 N84-29336
Theory and modeling of atmospheric turbulence, part 2
[NASA-CR-3817] 19 p3057 N84-29396
New ephemerides for the Galilean Satellites of Jupiter calculated from Sampson-Lieske theory 19 p3119 N84-29825
Analytical theory of the motion of the Galilean satellites of Jupiter: The first approximation 19 p3120 N84-29834
Study of high performance alloy electroforming
[NASA-CR-173826] 20 p3152 N84-30013
LANDSAT-4 Science Investigations Summary, Including December 1983 Workshop results, volume 1
[E84-10166] 20 p3205 N84-30359
Thematic Mapper (TM) instrument description 20 p3205 N84-30363
An overview of LANDSAT-4 and the Thematic Mapper 20 p3206 N84-30364
An overview of the Thematic Mapper geometric correction system 20 p3206 N84-30367
A comparison between Lageos laser ranging and VLBI determined baselines 20 p3220 N84-30459
Reliability and efficiency of Kubicek rheographic method for monitoring cardiac output and stroke volume 20 p3253 N84-30644
Blood plasma free amino acids under hypokinetic conditions 20 p3253 N84-30648
Comparison of the full potential and Euler formulations for computing transonic airfoil flows
[NASA-TM-85983] 21 p3324 N84-31094
A method to combine remotely sensed and in situ measurements: Program documentation
[E84-10172] 21 p3426 N84-31735
Characterization of radiometric calibration of LANDSAT-4 TM reflective bands
[E84-10182] 21 p3429 N84-31753
On the zonally averaged temperature in the Southern Hemisphere
[INPE-3139-PRE/528] 21 p3443 N84-31846
Climatology of ozone at altitudes from 19,000 at 59,000 feet based on combined GASP and ozonesonde data
[NASA-TP-2303] 21 p3446 N84-31865
Dynamics of functional status and subjective sensations in process of heat adaptation 21 p3456 N84-31931
Psychophysics of proprioceptive sensibility 21 p3456 N84-31933
Heat-of-mixing experiments for liquefied gases
[PB84-215094] 22 p3562 N84-32560
Time-to-corrosion of reinforcing steel in concrete slabs. Volume 5: Calcium nitrite admixture or epoxy-coated reinforcing bars as corrosion protection systems
[PB84-195239] 22 p3565 N84-32578
Interrelation between parameters of M-type traveling wave tube 22 p3568 N84-32598
Mapping magnetized geologic structures from space: The effect of orbital and body parameters
[E84-10191] 22 p3614 N84-32895
Hydrographic measurements in the western Arboran Sea, October 1982
[AD-A143588] 22 p3627 N84-32985
Controller technique of compensation figured in an active control scheme on the accumulated effects of deviation in the modeling
[INPE-2987-TDL/152] 22 p3643 N84-33100
Unsteady viscous-inviscid interaction procedures for transonic airfoil flows
[AD-A143764] 23 p3690 N84-33390
On the relationships between radar backscattering coefficient and vegetation canopy characteristics 23 p3768 N84-33682
Fast automatic reconnaissance in land observations images by means of analog and/or digital images 23 p3768 N84-33685
Application of the discrete cosine transform to remote sensing image data compression 23 p3779 N84-33964
State-of-the art Differential Absorption and Scattering (DAS) lidar for SO2 and NO2 23 p3780 N84-33966
The 2-on-1 stochastic duel
[AD-A143679] 23 p3820 N84-34224
Observations of ramped current operation in ZT-40M
[DE84-015076] 23 p3829 N84-34286
Saturn's rings: 3-mm low-inclination observations and derived properties
[NASA-TM-87363] 23 p3844 N84-34387
Contribution to the performance of microjets
[NASA-TM-77730] 24 p3900 N84-34694
Mesoscale analysis of VAS 6.7 micron image data for several case studies 24 p3930 N84-34873
An apllication of VISSR atmospheric sounder (VAS) data in mesoscale analysis 24 p3930 N84-34874
Statistical severe storm nowcasting comparison of VAS and Rawinsonde soundings 24 p3930 N84-34878
Radar analyses of mesoscale - meteorological phenomena during the AVE/VAS correlation field experiment 24 p3932 N84-34889
A further study on the spatial correlation of the total electron content at pairs of subionospheric points located at the Crest Zone of the Equatorial Anomely 24 p3956 N84-35046
The nitrogen abundance in WC stars 24 p3977 N84-35192
Mass loss from the central star of NCG 3242 24 p3977 N84-35194
Rotational modulation of spots and plages on RSCVn stars 24 p3978 N84-35196
An estimate of V348 Sgr effective temperature 24 p3978 N84-35201
Constraints on stellar winds of cataclysmic variables derived from ultraviolet resonance lines 24 p3979 N84-35205

DATA FLOW ANALYSIS
Generating data flow programs from nonprocedural specifications
[AD-A132609] 05 p0728 N84-14780
Analysis of data flow for SIMD (Single Instruction Multiple Data) systems
[AD-A133248] 06 p0895 N84-15812
Rediflow multiprocessing
[DE84-003194] 12 p1884 N84-22282
On mapping cube graphs on VLSI array and tree architectures
[AD-A139306] 14 p2205 N84-24234
Dataflow computing approach in high-speed digital simulation
[NASA-CR-173552] 15 p2389 N84-25336
A static analyzer of FORTRAN programs
[INPE-3016-TDL/155] 17 p2752 N84-27465

DATA HANDLING SYSTEMS
U DATA SYSTEMS

DATA INTEGRATION
The impact of VLSI on signal processing 09 p1402 N84-19159
A SEASAT SASS simulation experiment to quantify the errors related to a + or - 3 hour intermittent assimilation technique
[E84-10129] 14 p2168 N84-23987
Nonvolatile, electrically erasable programmable ROM
[BMFT-FB-T-84-008] 15 p2412 N84-25482
Results of demonstration of JRIM prototype data base
[AD-A139772] 15 p2418 N84-25518
Comparative study of image data produced by satellites with different characteristics
[ESA-CR(P)-1867] 16 p2509 N84-26103

DATA LINKS
Transmission lines with very lossy conductors and seawater return
[AD-A130739] 01 p0065 N84-10427
A flight investigation of simulated data link communications during single-pilot IFR flight 03 p0313 N84-12046
Satellite communication, part 1
[INPE-2893-PRE/417] 03 p0359 N84-12337
Airborne Intelligent Display (AID) phase 1 software development
[ATC-123] 04 p0484 N84-13181
Asymptotic optimality of shortest path routing
[AD-A132280] 04 p0521 N84-13423
Optical fibre links for digital YUV signals
[BBC-RD-1983/14] 05 p0665 N84-14372
Aerials for use in television outside broadcasts
[BBC-RD-1983/12] 05 p0665 N84-14373
Bidirectional fiber optic cable adapter
[AD-A133371] 06 p0824 N84-15370
An exploratory study of the use of an inexpensive cordless telephone as a part of a data communications link — management information in hospitals
[AD-A134228] 07 p0992 N84-16432
Performance evaluation of circuit switching for data networks
[ENST-C-83001] 07 p1058 N84-16842
Communications 09 p1269 N84-18285
Space Station needs, attributes and architectural options. Volume 2, book 2, part 3: Communication system
[NASA-CR-173318] 09 p1271 N84-18302
Meteor scatter communication in an air-ground environment
[AD-A135669] 09 p1301 N84-18506
Convergence theories of distributed iterative process: A survey
[AD-A135875] 09 p1362 N84-19027
Study of a Tracking and Data Acquisition System (TDAS) in the 1990's
[NASA-CR-173262] 10 p1433 N84-19368
On the application of biphase coding in data communication systems
[EUT-82-E-132] 10 p1483 N84-19698
LANDSAT-D communication systems in-orbit performance 10 p1523 N84-19972
Multipath link and modem design for satellite mobile communications
[ESA-CR(P)-1833] 12 p1809 N84-21793
The operator mapping between relational algebra operators and CODASYL based databases managed by a CODASYL DBMS
[AD-A138117] 12 p1918 N84-22497
A model for asynchronous distributed computation
[AD-P002879] 13 p1978 N84-22840
Compression algorithm for data analysis in a radio link (preparation of PACEM 2 experiment)
[CRPE-NT-121] 13 p1984 N84-22881
Primer on Integrated Services Digital Networks (ISDN): Implications for future global communications
[PB84-152586] 14 p2141 N84-23839
Ingres to dBASE and financial spreadsheet program packages
[AD-A139626] 15 p2391 N84-25351
Design of a CO2 laser transceiver package for space-to-space optical communication
[BLEV-R-64.225] 16 p2482 N84-25913
Cost analysis of Mode S data link avionics system for the low-performance general aviation aircraft community
[DOT/FAA/PM-83/38] 18 p2795 N84-27735
Augmenting computer networks
[NASA-CR-172399] 20 p3277 N84-30800
Digital transmission: 68Mbit/s pal field trial system
[BBC-RD-1984/5] 21 p3381 N84-31455
Analysis of space telescope data collection systems
[NASA-CR-171129] 21 p3484 N84-31958
On applications of a specification and description language NESDEL to communication protocols 22 p3583 N84-32567
Electronic Switching Spherical Array (ESSA) antenna systems
[NASA-TM-86127] 22 p3572 N84-32621
Decommutation system
[INPE-3148-NTE/220] 23 p3730 N84-33639
The ERS-1 ground segment 23 p3783 N84-33994
The Lincoln Laboratory-Aerospace Medical Research Laboratory digital speech test facility
[AD-A144303] 24 p3894 N84-34662
High reliability semiconductor lasers for data links between satellites 24 p3904 N84-34724
Experimental assessment of semiconductor lasers for optical data links in space 24 p3905 N84-34729
Optical data links for the STAR mission 24 p3905 N84-34730
Receiver concepts for data transmission at 10 microns — between satellites 24 p3905 N84-34732
The concept of the Low Intermediate Frequency Translation Loop (LIFTL) and its application on a CO2 laser intersatellite data link system 24 p3905 N84-34733
Pointing, acquisition and tracking for intersatellite optical data links 24 p3905 N84-34735

DATA MANAGEMENT
Launch vehicle aerodynamic data base development comparison with flight data 01 p0018 N84-10117
Research in network management techniques for tactical data communications networks
[AD-A131357] 02 p0209 N84-11365
Utility of the cortical evoked response as a measure of photographic image quality
[AD-A131679] 03 p0377 N84-12455
Australian Oceanographic Data Centre bulletin 16
[AD-A132002] 03 p0413 N84-12701
Office automation management guide
[AD-A131770] 03 p0458 N84-13012
Microcomputer scientific software series 1: The numerical information manipulation system
[PB83-263624] 05 p0731 N84-14797

Pilot climate data system: A state-of-the-art capability in scientific data management
[NASA-TM-85115] 06 p0881 N84-15731
Perspectives on oversight management of software development projects
[AD-A133404] 06 p0933 N84-16064
FGGE/SBUV tape specification and shipping letter description
[NASA-CR-170482] 06 p0934 N84-16071
FGGE/ERBM tape specification and shipping letter description
[NASA-CR-170547] 06 p0934 N84-16072
FGGE/ERBZ tape specification and shipping letter description
[NASA-CR-170548] 06 p0934 N84-16073
Typical remote sensing data products
08 p1175 N84-17656
Hexagonal data base study
[AD-A135532] 08 p1212 N84-17907
The ISPM common data file 09 p1263 N84-18245
An engineering data management system for computer aided design
[NLR-MP-82050-U] 09 p1405 N84-19180
An application of the Navstar global positioning system in navigation track reconstruction for Naval exercises
[AD-A136807] 10 p1425 N84-19321
On generation, estimation, utilization, availability and compatibility aspects of geodetic and meteorological data
[AD-A135844] 10 p1436 N84-19388
Mathematical theories, numerical investigations — geodesy 10 p1519 N84-19949
CCRS option for TM data distribution
10 p1524 N84-19982
Classified document handbook
[AD-A137002] 10 p1593 N84-20439
One solution to STAR-1100 in a dual machine environment
[DE83-017160] 11 p1704 N84-21109
Development of a data management front-end for use with a LANDSAT-based information system
[NASA-CR-175151] 11 p1749 N84-21418
Cumulative reports and publications through 31 December 1983
[NASA-CR-172326] 12 p1876 N84-22226
Universal disk controller for microcomputers
[AD-A138333] 12 p1877 N84-22235
Natural language processor as a universal front end to expert systems
[AD-A138455] 12 p1878 N84-22236
DATMAN FORTRAN user's guide version 3.0
[PB84-149251] 12 p1885 N84-22269
Integrated Global Ocean Services System (IGOSS): Guide to the IGOSS data processing and services system
[WMO-623] 13 p2019 N84-23089
The microcomputer in the acquisition environment
[AD-P002748] 13 p2049 N84-23295
Computer Generated Acquisition Document System (CGADS)
[AD-P002784] 13 p2055 N84-23331
Publication in professional journals in science and engineering: A survey of editorial procedures and opinion
[AD-A138913] 13 p2064 N84-23385
Order-preserving dynamic hashing schemes for associative searching in data base systems
13 p2066 N84-23400
Advanced Platform Systems Technology study. Volume 4: Technology advancement program plan
[NASA-CR-173524] 14 p2115 N84-23674
Space and time analysis in dynamic programming algorithms
[AD-P002963] 14 p2200 N84-24203
ERB master archival tape specification no. T 134081 ERB MAT, revision 1
[NASA-TM-85612] 14 p2204 N84-24230
Field instrumentation for the passive solar commercial buildings monitoring program 16 p2515 N84-26142
Measures and metrics for software development
[NASA-TM-85605] 16 p2543 N84-26323
Trends in data communication by computer networks in space missions
[INPE-3068-PRE/485] 16 p2545 N84-26338
Are we giving aircraft integrated data systems users the best information in the best way at the best time?
17 p2585 N84-26566
MST radar data-base management
17 p2696 N84-27175
A data management and presentation tool for engineering and research
[NLR-MP-83044-U] 17 p2754 N84-27482
Space Station needs, attributes and architectural options study. Volume 7-4A: Data book, architecture, technology and programmatics, part A
[NASA-CR-173686] 18 p2804 N84-27799
Cockpit data management requirements (current technology aircraft)
[FAA-PM-83-25] 19 p2961 N84-28766
Space Station Systems Technology Study. Volume 2: Trade study and technical selection technical report
[NASA-CR-173776] 19 p2961 N84-28891
Ada (registered trademark) training curriculum. Ada (registered trademark) for software managers, L201. Teachers' guide: Volume 1
[AD-A142430] 20 p3272 N84-30768
Software configuration management in a project environment
[AD-P003592] 21 p3341 N84-31197
Global resources information system
21 p3428 N84-31747
A device-dependent interface for interactive image display
[NASA-TM-86138] 21 p3461 N84-31949
Data base generation: Improving the state-of-the-art
[AD-P003470] 21 p3512 N84-32245
Data base management of software development
[AD-P003486] 21 p3513 N84-32253
The design and usage of the new data management features in NASTRAN 22 p3609 N84-32666
Asynchronous file transfer to IBM PC's
22 p3672 N84-33275
Status tracking system for reports
22 p3672 N84-33276
The NBS data management technology program
22 p3672 N84-33277
Data communication between data terminal equipment and the JPL administrative data base management system 22 p3672 N84-33278
NASA metrology information system: A NEMS subsystem 22 p3672 N84-33279
Langley's views on NEMS 22 p3672 N84-33280
LaRC local area networks to support distributed computing 22 p3673 N84-33281
Implementing automated information systems in the Air Force
[AD-A143398] 22 p3674 N84-33288
Solar-terrestrial data access distribution and archiving
[NASA-CR-173906] 22 p3675 N84-33295
Some considerations of the operations of optical imaging space sensors derived from the experience of the metric camera project 23 p3764 N84-33860
Report of the second session of the International Working Group on Data Management for the International Satellite Cloud Climatology Project (ISCCP)
[WCP-52] 23 p3801 N84-34103
Name server design for distributed systems
[AD-A143634] 23 p3812 N84-34173
Selection of data from busses for test
[AD-D011160] 23 p3813 N84-34176
The domain name system
[AD-A143618] 23 p3817 N84-34201
Managing microcomputers: A survival kit for functional managers
[AD-A144006] 23 p3833 N84-34316
Trends in Planetary Data Analysis. Executive summary of the Planetary Data Workshop
[NASA-CP-2333] 23 p3841 N84-34363
Planetary Data Workshop, part 2
[NASA-CP-2343-PT-2] 23 p3842 N84-34376
Database management 23 p3843 N84-34377
NASA climate data catalog
[NASA-TM-86085] 24 p3923 N84-34827
The International Satellite Cloud Climatology Project (ISCCP) preliminary implementation plan
[WCP-20] 24 p3933 N84-34899
Real-time solar magnetograph operation system software design and user's guide
[NASA-TM-86467] 24 p3945 N84-34976
Summaries of the FY 1983 applied mathematical sciences research program
[DOE/ER-0157/1] 24 p3950 N84-35010

DATA PROCESSING

NT ASSOCIATIVE PROCESSING (COMPUTERS)
NT ATMOSPHERIC & OCEANOGRAPHIC INFORM SYS
NT BATCH PROCESSING
NT CENSORED DATA (MATHEMATICS)
NT CONCURRENT PROCESSING
NT DATA CORRELATION
NT DATA REDUCTION
NT DATA RETRIEVAL
NT DATA SMOOTHING
NT DATA STORAGE
NT DATA STRUCTURES
NT DISTRIBUTED PROCESSING
NT KARHUNEN-LOEVE EXPANSION
NT MULTIPROCESSING (COMPUTERS)
NT OPTICAL DATA PROCESSING
NT PARALLEL PROCESSING (COMPUTERS)
NT PIPELINING (COMPUTERS)
NT SCENE ANALYSIS
NT SIGNAL ANALYSIS
NT SIGNAL PROCESSING
NT VOICE DATA PROCESSING
Optical pattern recognition for missile guidance
[AD-A130097] 01 p0016 N84-10113
Ascent air data system results from the space shuttle flight test program 01 p0020 N84-10125
The calibration and flight test performance of the space shuttle orbiter air data system 01 p0026 N84-10165
Shuttle flight pressure instrumentation: Experience and lessons for the future 01 p0026 N84-10167
Audio signal management techniques
[AD-A130391] 01 p0062 N84-10410
Results of PLACES data analysis
[AD-A130933] 01 p0066 N84-10432
The effects of solar incidence angle over digital processing of LANDSAT data
[E84-10007] 01 p0099 N84-10641
Interactive raster data structure study
[AD-A130195] 01 p0100 N84-10649
Status of auto carto at the Defense Mapping Agency
[AD-A131235] 01 p0101 N84-10653
A review of optical data analysis related to the modelling of visible and optical infrared atmospheric properties
[AD-A131486] 01 p0106 N84-10687
Using the glyph concept to create user-definable display formats
[DE83-013831] 01 p0124 N84-10806
User requirements and a high level design of the hydrographic software/data processing subsystem of an airborne laser hydrography system
[PB83-228569] 01 p0127 N84-10830
Computer symbol generator and control panel for an integrated cockpit color display information system
[BMFT-FB-W-83-007] 02 p0179 N84-11169
On-line traffic monitor
[AD-A131356] 02 p0209 N84-11364
A conceptual study of automatic and semi-automatic quality assurance techniques for round image processing
[NASA-CR-170610] 02 p0230 N84-11508
First experiences with the Mark 3 Very Long Baseline Interferometry (VLBI) data analysis system
02 p0234 N84-11536
The CTD data collected in the Rockall trough on RRS Shackleton Cruise 5c/78 during JASIN 1978 — salinity, temperature, depth (CTD); air sea interaction (JASIN)
[IOS-147] 02 p0258 N84-11691
Parallel processor for fast event analysis
[DE83-014050] 02 p0271 N84-11770
Bibliography of documents issued by the GAO (General Accounting Office) on matters related to ADP (Automatic Data Processing) January 1982 - December 1982
[PB83-238766] 02 p0273 N84-11788
Method in the generation of a real-time interactive display
[DE83-013523] 02 p0274 N84-11789
FASTMENU: A set of FORTRAN programs for analyzing surface texture
[PB83-240638] 02 p0276 N84-11804
Draft remarks for the IFIPS Congress 1983 panel on how to obtain high performance for high-speed processors
[DE83-012669] 02 p0277 N84-11814
Integration of fire, flight and propulsion control systems: An overview, retrospective and prospective
03 p0315 N84-12057
Automated data reduction for optical interferometric data
[DE83-012075] 03 p0377 N84-12457
Information resources management plan
[AD-A131964] 03 p0459 N84-13023
Information processing for the infrared balloon telescope Goldener Drache
[MPE-38] 03 p0461 N84-13035
Triservice program for extending missile aerodynamic data base and prediction program using rational modeling
[AD-A132455] 04 p0481 N84-13166
Design issues in the GCF Mark 4 development
04 p0520 N84-13415
Analysis of lead-acid battery accelerated testing data
[DE83-017403] 04 p0528 N84-13473
Coordinate-measuring machine capability
[DE84-002014] 04 p0539 N84-13544
Automated standard nautical chart production
[AD-A132249] 04 p0553 N84-13644
Real-time processing system for the NRL (Naval Research Laboratory) remote sensing experiment: Phelps Bank, July 1982
[AD-A132151] 04 p0553 N84-13645
Assessment of quality of data on tapes from the hydrogeochemical and stream sediment reconnaissance
[DE83-017697] 04 p0554 N84-13647

Code BETAL to calculation Alpha/Beta activities in environmental samples
[JEN-549] 04 p0578 N84-13816
Generating data flow programs from nonprocedural specifications
[AD-A132609] 05 p0728 N84-14780
Enhancement and verification of the Navy CASEE model (Calendar year 1982 task)
[AD-A133077] 05 p0730 N84-14793
A language for the specification and representation of programs in a data flow model of computation
05 p0731 N84-14800
Joint services electronics program
[AD-A132992] 05 p0754 N84-14948
Benchmarking unstructured systems
[DE83-011175] 05 p0758 N84-14969
A dynamic approach to military avionics systems testing 06 p0774 N84-15075
IRIG standard for distributing interrange vector acquisition data
[AD-A133617] 06 p0793 N84-15170
BANDIT in NASTRAN 06 p0858 N84-15591
Effective use of earthquake data
[AD-A134077] 06 p0878 N84-15712
Use of 3D graphics in scientific data analysis
[DE84-000911] 06 p0898 N84-15831
Laboratory automation of a quadrupole mass spectrometer 06 p0932 N84-16053
Local automation model: Functional description
[AD-A133389] 06 p0935 N84-16077
Performance evaluation of the JPL interim digital SAR processor 07 p0989 N84-16407
Acousto-optic/CCD real-time SAR data processor
07 p0989 N84-16410
Operational test and evaluation of the meter engineering development model
[AD-A125166] 07 p1007 N84-16532
New developments in digitizing and processing map data on large scales by Ordnance Survey (OS), Southampton, England 07 p1018 N84-16607
Digitizing of block and parish boundary maps: Aids, experiences and problems 07 p1019 N84-16609
Computer assisted processing of soil productivity assessment data for the production of soil classification maps on the basis of soil productivity assessment data on the scale 1:5000 (DGK 5 Bo)
07 p1019 N84-16610
LANDSAT-4 horizon scanner full orbit data averages
[E84-10080] 07 p1022 N84-16627
A portable real-time data processing system for standard meteorological radiosondes
[NASA-CR-175358] 07 p1036 N84-16719
Types of technical content of data
07 p1086 N84-17061
Investigation of design considerations for a complex demodulation filter
[NASA-CR-173295] 08 p1107 N84-17195
An Attached Payload Operations Center (APOC) at the Goddard Space Flight Center (GSFC), volume 2
[NASA-CR-175160-VOL-2] 08 p1108 N84-17203
Statistical data processing, system modeling and reliability
[AD-A135208] 08 p1223 N84-17984
Meeting the automatic data processing and telecommunications needs of the federal government: A five-year plan
[PB83-195255] 08 p1241 N84-18111
Activities report on air traffic control in the Federal Republic of Germany 09 p1253 N84-18182
ISPM mission operations 09 p1263 N84-18244
A methodology for digital processing of geographic and cartographic data
[AD-A135835] 09 p1337 N84-18730
The extension and application of global compaction techniques for horizontal scientific code
[AD-A135794] 09 p1368 N84-18934
Geostatistics software user's manual for the Geosciences Research and Engineering Department PDP 11/70 computer
[DE84-004149] 09 p1369 N84-18940
Towards a comprehensive approach to the analysis of categorical data
[AD-A135967] 09 p1383 N84-19034
Signal processing in high data rate environments. Design tradeoffs in the exploitation of parallel architectures and fast system clock rates. An overview
09 p1401 N84-19151
An approach to reliable parallel data processing
09 p1402 N84-19157
Active databases as a paradigm for enhanced computing environments
[AD-A135808] 09 p1404 N84-19177
Data set description and bias — in astronomy
09 p1408 N84-19197
Automated en route air traffic control algorithmic specifications. Volume 5: Data specification
[AD-A136851] 10 p1426 N84-19325
Spacelab Data Processing Facility
[NASA-TM-85556] 10 p1435 N84-19382
Thermal test data analysis — satellite design
10 p1447 N84-19450
Telemetry simulation assembly implementation in the DSN 10 p1475 N84-19633
Accomplishments of the NASA Johnson Space Center portion of the soil moisture project in fiscal year 1981
[E84-10090] 10 p1521 N84-19961
Proceedings of the Fourth Meeting of the LANDSAT Technical Working Group (LTWG). Attachments
[LIB-PRO-0012] 10 p1523 N84-19971
Operational status of the LANDSAT-5 ground station
10 p1523 N84-19976
Proceedings of Aeromagnetic Data Workshop
[PB84-127125] 10 p1536 N84-20077
A system for receiving and analyzing meteorological satellite data at small meteorological/oceanographic centres or aboard ship
[AD-A137215] 10 p1540 N84-20088
Slick and quick data entry for AFOS Era Verification (AEV) programs
[PB84-138726] 10 p1542 N84-20103
Development INTERDATA 8/32 computer system
[NASA-CR-175425] 10 p1556 N84-20197
Programming productivity enhancement by the use of application generators
[AD-A137124] 10 p1562 N84-20235
Three-dimensional graphics for scientific data display and analysis
[DE84-004075] 10 p1565 N84-20253
Research and technology, fiscal year 1983
[NASA-TM-85557] 10 p1592 N84-20434
Algorithm to calculate proportional area transformation factors for digital geographic databases
[DE84-004456] 10 p1593 N84-20440
Security, a set of rules or an approach — cryptography
[NLR-MP-82047-U] 10 p1593 N84-20442
Investigate and verify the validity of mathematical formulas in relation to data obtained from theoretical investigations and experimental observations
[AD-A137847] 11 p1682 N84-20974
The use of interactive graphics processing in short-range terminal weather forecasting: An initial assessment
[AD-A137165] 11 p1687 N84-21004
Data flow computer architecture
[DE84-004198] 11 p1704 N84-21111
FORTRAN 5 cross-reference
[DE84-006438] 11 p1709 N84-21143
An application of a multidimensional extension of the two-parameter logistic latent trait model
[AD-A137741] 11 p1713 N84-21170
Specifications for a federal information processing standard data dictionary system
11 p1749 N84-21414
Use of DBMS in multi-step information systems for LANDSAT 11 p1749 N84-21417
Development of a data management front-end for use with a LANDSAT-based information system
[NASA-CR-175151] 11 p1749 N84-21418
Data reduction and analysis for ISEE-A and -B energetic particles flux experiment and ISEE-C electron and X-ray experiments
[NASA-CR-175220] 11 p1760 N84-21486
Post-mission Viking data anaysis
[NASA-CR-173451] 12 p1776 N84-21587
The development of computer routines to perform a comprehensive analysis of spectroscopic data from diatomic molecules
[AD-A138063] 12 p1791 N84-21680
Remote sensing of Earth terrain
12 p1831 N84-21938
Multidimensional modeling of atmospheric effects and surface heterogeneities on remote sensing
12 p1833 N84-21945
Processing system 12 p1835 N84-21958
In situ data 12 p1835 N84-21959
Postprocessing for the UCLA climate model
12 p1854 N84-22079
Application and enhancements of MOVIE.BYU
12 p1871 N84-22195
A unified data flow model for fault tolerant computers
[NASA-CR-173479] 12 p1877 N84-22230
IEEE 488 bus pseudo-controller linking talker with listener
[DE84-007093] 12 p1878 N84-22238
DATMAN FORTRAN user's guide version 3.0
[PB84-149251] 12 p1885 N84-22289
Use of shape-preserving interpolation methods in surface modeling
[DE83-012708] 12 p1895 N84-22343
The measurement of mechanical point admittances by means of hammer excitation and tape recording. Part 2: Measuring and processing rules
[TPD-308.780/2-VOL-2] 12 p1900 N84-22376
A comparison of radiation damage in liner ICs from cobalt-60 gamma rays and 2.2-MeV electrons
[NASA-CR-173474] 12 p1901 N84-22380
Description of the ACCESS data acquisition system
[DE84-005758] 12 p1919 N84-22506
Study of large viscoplastic strains in cylindrical shells by method of magnetic-pulse loading
13 p1972 N84-22796
Human decisionmaking in dynamic environments with increasing information processing demands
[AD-P002884] 13 p1979 N84-22845
Ongoing data reduction, theoretical studies and supporting research in magnetospheric physics
[NASA-CR-173419] 13 p2010 N84-23039
Integrated Global Ocean Services System (IGOSS): Guide to the IGOSS data processing and services system
[WMO-623] 13 p2019 N84-23089
Generalized monitoring facility. Users manual. Change 7
[AD-A138533] 13 p2026 N84-23151
West Europe report: Science and technology
[JPRS-WST-84-011] 13 p2038 N84-23224
French ONERA acquires U.S. supercomputer for research 13 p2038 N84-23226
Office automation in the acquisition environment
[AD-P002747] 13 p2049 N84-23294
Corporate DP planning: New approaches and new concerns — data processing (DP)
[PNR-90180] 13 p2064 N84-23386
Geology of Maxwell Montes, Venus
13 p2077 N84-23460
INTFL-8401 computer tomography for interferomatic aerodynamic measurements
[AD-A139591] 14 p2101 N84-23611
Distributed database performance modeling
[AD-P002157] 14 p2139 N84-23823
Synchronization technique of data recorded on a multichannel tape recorder
[AD-A139570] 14 p2148 N84-23868
Meteorological and climatological conditions affecting the vertical structure of visibility in Northern Germany
[AD-A139126] 14 p2179 N84-24052
MDR-processing manually digitized observations
[PB84-161462] 14 p2181 N84-24070
RANP: Stability Analysis Plot Program
[PB84-161447] 14 p2181 N84-24071
EPA (Environmental Protection Agency) complex terrain model development description of a computer data base from small hill impaction study no. 1, Cinder Cone Butte, Idaho
[PB84-161439] 14 p2182 N84-24072
Profs' Doppler radar data processing system. Part 1: Design and implementation with application to NEXRAD algorithms
[PB84-165224] 14 p2182 N84-24073
Systemic grammar in computation: The Nigel case
[AD-A139251] 14 p2209 N84-24262
Project FIRST (Faculty Information and Research Service for Texas) technical description of project and results
[PB84-161629] 14 p2248 N84-24501
Guidance and Control Techniques for Advanced Space Vehicles
[AGARD-CP-350] 15 p2265 N84-24603
Application of MAGSAT to lithospheric modeling in South America. Part 2: Synthesis of geologic and seismic data for development of integrated crustal models
[E84-10126] 15 p2355 N84-25128
Proceedings of the Fourth Meeting of the LANDSAT Technical Working Group (LTWG), volume 1
[LIB-PRO-0012-VOL-1] 15 p2357 N84-25144
Plasma and magnetospheric research
[NASA-CR-171031] 15 p2368 N84-25205
World Weather Watch Planning report no. 38: Very short range forecasting: Observations, methods and systems
[WMO-621] 15 p2371 N84-25226
Four-dimensional satellite data assimilation
[AD-A139904] 15 p2372 N84-25228
Activities report of the Laboratory for Computer Science (FOA 32)
[FOA-C-30356-E1] 15 p2388 N84-25326
Computer program for treating and compiling ionospheric data
[FOA-C-30354-E] 15 p2391 N84-25346
A critical assessment of thermodynamic data for the Ca-Mg system
[NPL-DMA(A)-73] 15 p2415 N84-25500
Guide to reporting time in the financial information system at ANL
[DE84-009356] 15 p2419 N84-25524

Computer programs for processing of spectra
15 p2423 N84-25556
Data acquisition and processing in sea-level test beds
16 p2453 N84-25730
Numerical orbit generators of artificial earth satellites
[INPE-3050-RPE/455] 16 p2455 N84-25740
Determination of the key parameters affecting historic communications satellite trends
[NASA-TM-83833] 16 p2481 N84-25908
Understanding and utilization of Thematic Mapper and other remotely sensed data for vegetation monitoring
[E84-10150] 16 p2508 N84-26096
Earthnet: The story of images
[ESA-BR-18] 16 p2509 N84-26102
Improving the legibility of computer printouts
[BMFT-FB-DV-84-001] 16 p2542 N84-26315
Guidelines for developing NASA (National Aeronautics and Space Administration) ADP security risk management plans
[NASA-CR-173564] 16 p2542 N84-26317
Guidelines for development of NASA (National Aeronautics and Space Administration) computer security training programs
[NASA-CR-173562] 16 p2542 N84-26318
Trends in data communication by computer networks in space missions
[INPE-3068-PRE/485] 16 p2545 N84-26338
The multiple device queueing system
[AD-A140429] 16 p2547 N84-26344
Towards a better understanding of helicopter external noise
[SNIAS-832-210-113] 16 p2554 N84-26388
Final network: Objectives, scopes, benefits
[MBB-UR-670-83-O] 16 p2567 N84-26469
User's guide for ERB 7 SEFDT. Volume 1: User's guide. Volume 2: Quality control report, year 1
[NASA-CR-170616] 16 p2581 N84-26553
Hard X-ray and microwave morphology
[NASA-CR-173568] 16 p2582 N84-26559
Aircraft Integrated Data Systems (AIDS) on medium size aircraft 17 p2587 N84-26582
Middle Atmosphere Program. Handbook for MAP, volume 9
[NASA-CR-173439] 17 p2662 N84-27076
Data processing techniques used with MST radars: A review 17 p2694 N84-27159
Contextual classification of remotely sensed data
17 p2708 N84-27245
Heat Capacity Mapping Radiometer (HCMR) data processing algorithm, calibration, and flight performance evaluation
[E84-10153] 17 p2709 N84-27248
Research and applications of data from environmental satellites: Determining parameters and developing interpretation techniques for applications of environmental satellite data
[INPE-3005-NTE/213] 17 p2711 N84-27261
Bringing together various programs and data packets in the ZX81/TS1000/TK82C/CP200 memory
[INPE-3013-PRE/456] 17 p2752 N84-27466
Final STS-11 (41-B) best estimate trajectory products: Development and results from the first Cape landing
[NASA-CR-172349] 18 p2802 N84-27786
Selections on computer technology in CSSR
18 p2918 N84-28500
NIMBUS observation processing system requirements NG-13. ERB master archival. Tape specification no. T134081 ERB Mat, revision 1
[NASA-TM-85388] 18 p2944 N84-28668
The database management module of the SPLICE system
[AD-A132795] 18 p2945 N84-28671
Organizing work with information flows in system for automated processing of data from remote sensing of the Earth for use in agriculture 19 p2977 N84-28873
Universal documentation system handbook. Supplement 2: Procedures for the electronic processing of level 1, 2 and 3 test requirements and support information
[AD-A141850] 19 p2980 N84-28886
Pressure filtration of ceramic pastes. 4: Treatment of experimental data
[NASA-TM-77454] 19 p2997 N84-28992
Analysis and programming for electromagnetic applications
[AD-A142313] 19 p3009 N84-29071
Climatological and statistical bases to explain the treatment of climate data 19 p3056 N84-29391
GEOSAT Ocean Applications Program (GOAP) initial data processing and analysis system test and evaluation plan
[AD-A141673] 19 p3062 N84-29426
Design and performance of a distributed relational data base system
[AD-A142177] 19 p3073 N84-29495
Pareto-optimality, efficiency analysis and empirical production functions
[AD-A141768] 19 p3088 N84-29601
The next generation in satellite flight control systems
19 p3119 N84-29822
Microprocessor automation for the Dynaflect Deflection Measuring System
[PB84-180413] 20 p3171 N84-30135
Radiometric calibration and processing procedure for reflective bands on LANDSAT-4 protoflight Thematic Mapper 20 p3206 N84-30366
Raster processing for regional planning tasks
20 p3227 N84-30507
Data integrity factors affecting the construction of the mapping, charting, and geodesy data base
[NASA-CR-173835] 20 p3228 N84-30511
Climatological Summary Programs F6 and CLIMAT
[PB84-185941] 20 p3246 N84-30603
Review of the Third Biennial Conference on Real-Time Computer Applications in Nuclear and Particle Physics
[DE84-002457] 20 p3266 N84-30720
A user-oriented laboratory data entry computer system designed to reduce errors
[DE84-011901] 20 p3267 N84-30730
Guideline for computer security certification and accreditation. Category: ADP (Automatic Data Processing) operations. Subcategory: Computer security. Federal information processing standards
[FIPS-PUB-102] 20 p3268 N84-30736
Computer science and technology: Introduction to software packages
[NBS-SP-500-114] 20 p3268 N84-30740
WC user's guide
[DE84-009242] 20 p3274 N84-30784
Graphics workstation switching unit
[DE84-011626] 20 p3275 N84-30788
Argonne integrated heterogeneous file transfer network
[DE84-012092] 20 p3277 N84-30803
Development of a document preparation staff within an office automation environment
[DE84-008649] 20 p3313 N84-31041
Attitude determination using strapdown inertial sensors and adaptive estimation
[INPE-3180-PRE/545] 21 p3327 N84-31106
The near-Earth magnetic field at 1980 determined from MAGSAT data
[E84-10170] 21 p3426 N84-31733
Applying artificial intelligence to large networks
21 p3428 N84-31743
Annotated bibliography of global resources information systems related publications 21 p3428 N84-31746
Empirical studies of upper atmospheric species
[NASA-CR-172437] 21 p3443 N84-31847
Introduction to Meteorological Satellite Center of Japan Meteorological Agency 21 p3446 N84-31864
User's guide for ERB 7 matrix. Volume 1: Experiment description and quality control report for year 1
[NASA-CR-170619] 21 p3464 N84-31960
Guidelines for software production in developed countries
[PB84-202795] 21 p3467 N84-31986
Fundamentals of computer security
[DE84-011476] 21 p3469 N84-31989
An evaluating report on the Institute for Computer Sciences and Technology, National Bureau of Standards, fiscal year 1983
[PB84-194802] 21 p3516 N84-32271
Data base management system of the National Low-Level Radioactive Waste Management Program
[DE84-012789] 21 p3519 N84-32291
Key to oceanographic records documentation
[PB84-186360] 21 p3519 N84-32299
A strategy for successful deep space information transmission in bad weather 22 p3574 N84-32635
A simulation of remote sensor systems and data processing algorithms for spectral feature classification
[NASA-CR-172393] 22 p3597 N84-32784
I/O channel interface
[NBS-FIPS-PUB-60-2] 22 p3637 N84-33057
IBM's token-ring LAN (Local-Area Network): A base-level communications solution
[AD-A143446] 22 p3638 N84-33063
Prolonging the life of software
[DE84-001722] 22 p3641 N84-33088
Algorithms for error localization of discrete data
[DE84-014417] 22 p3641 N84-33089
The allocation of data and programs in distributed data processing environments 22 p3670 N84-33261
An exploratory analysis of the relationship between media richness and managerial information processing
[AD-A143503] 22 p3674 N84-33293
East Europe report: Scientific affairs
[JPRS-ESA-84-007] 23 p3726 N84-33628
Applique rate converter
[AD-D011161] 23 p3751 N84-33777
Multitemporal LANDSAT urban area classification
23 p3768 N84-33886
NASA scatterometer research data processing system: Requirements and design 23 p3781 N84-33979
Development of an automatic system for the treatment of magnetotelluric data
[INPE-3165-TDL/171] 23 p3797 N84-34075
A study of antarctic remote site automatic weather station data (1980-81) from the ross ice shelf area
[AD-A143738] 23 p3802 N84-34105
The microcode for the control processor of the ARO (array oriented processor) array processor
[AD-A143765] 23 p3813 N84-34175
On-line edit users manual
[AD-A144021] 23 p3835 N84-34328
Laboratory 23 p3842 N84-34375
Planetary Data Workshop, part 2
[NASA-CP-2343-PT-2] 23 p3842 N84-34376
Non-imaging software/data analysis requirements
23 p3843 N84-34379
Planetary science analysis support system: Hardware report 23 p3843 N84-34382
Flight Test Techniques
[AGARD-CP-373] 24 p3847 N84-34396
Application of advanced parameter identification methods for flight flutter data analysis with comparisons to current techniques 24 p3848 N84-34401
Flight testing and real time data processing for development and integration of weapon systems
24 p3850 N84-34415
VISSR IR grid data processing
24 p3922 N84-34821
Analysis of Doppler lidar wind measurements
24 p3929 N84-34868
An application of VISSR atmospheric sounder (VAS) data in mesoscale analysis 24 p3930 N84-34874
Applications of the AVE-Sesame data sets to mesoscale studies 24 p3931 N84-34886
Autonomous microprocessor controllers for scientific research automation systems 24 p3941 N84-34946
Improving automated statistical data processing
24 p3942 N84-34956
RECOZ data reduction and analysis: Programs and procedures
[NASA-TM-87365] 24 p3944 N84-34973
Geocoded data structures and their applications to Earth science investigations
[NASA-TM-86113] 24 p3968 N84-35127
A general scientific information system to support the study of climate-related data
[NASA-TM-86152] 24 p3968 N84-35128
Comparative analysis of government and private sector ADP acquisition
[AD-A144523] 24 p3969 N84-35131

DATA PROCESSING EQUIPMENT

NT AIRBORNE/SPACEBORNE COMPUTERS
NT ANALOG COMPUTERS
NT AUXILIARY EQUIPMENT (COMPUTERS)
NT CDC COMPUTERS
NT CDC CYBER 170 SERIES COMPUTERS
NT CDC CYBER 174 COMPUTER
NT CDC CYBER 175 COMPUTER
NT CDC CYBER 203 COMPUTER
NT CDC 6000 SERIES COMPUTERS
NT CDC 6600 COMPUTER
NT CDC 6700 COMPUTER
NT CDC 7600 COMPUTER
NT COMPUTERS
NT DATA PROCESSING TERMINALS
NT DIGITAL COMPUTERS
NT EMBEDDED COMPUTER SYSTEMS
NT HEWLETT-PACKARD COMPUTERS
NT HYBRID COMPUTERS
NT IBM COMPUTERS
NT INTEL 8080 MICROPROCESSOR
NT MICROCOMPUTERS
NT MICROPROCESSORS
NT MINICOMPUTERS
NT OPTICAL COMPUTERS
NT PARALLEL COMPUTERS
NT PDP COMPUTERS
NT PDP 8 COMPUTER
NT PDP 11 COMPUTER
NT PDP 11/70 COMPUTER
NT PERSONAL COMPUTERS
NT PRINTERS (DATA PROCESSING)
NT UNIVAC 1100 SERIES COMPUTERS
NT VAX-11 SERIES COMPUTERS
NT VAX-11/780 COMPUTER
Design and implementation of a preprocessing system for a sodium lidar
[NASA-CR-174595] 03 p0378 N84-12462
Test and demonstration of Macrometer (TM) model V-1000 interferometric surveyor
[PB83-239103] 03 p0402 N84-12631

A polarization diversity radar data processor
[AD-A134011] 05 p0666 N84-14382
USERSIN: An interactive user-interface for FORTRAN SIN
[MRL-R-877] 05 p0721 N84-14728
Processor architecture for airborne SAR systems 07 p0969 N84-16406
Real-time digital processing of SAR data 07 p0969 N84-16408
Acquisition systems for heat transfer measurement
[DE84-003779] 08 p1160 N84-17551
Automated synthesis of digital hardware modules: Simulation and verification of interconnections
[AD-A135298] 08 p1210 N84-17689
The impact of VLSI on signal processing 09 p1402 N84-19159
Design of office information systems
[AD-A136523] 09 p1404 N84-19170
Description and status report on TM processing system 10 p1523 N84-19978
Ada compiler validation summary report: ROLM Ada compiler, version 4.42 V-002
[AD-A136732] 10 p1557 N84-20199
Development of a communications Front End Processor (FEP) for the VAX-11/780 using an LSI-11/23
[AD-A138152] 12 p1807 N84-21778
Natural language processor as a universal front end to expert systems
[AD-A138455] 12 p1878 N84-22236
Mechanized contract document preparation and abstract system
[AD-P002750] 13 p2050 N84-23297
Standard for fire protection of DOE electronic computer/data processing systems
[DE84-007194] 14 p2135 N84-23793
The optimization of GMC over GF(p)
[AD-P002373] 14 p2195 N84-24164
Material and process selection and quality control for ESA spacecraft and associated equipment
[ESA-PSS-01-70-ISSUE-2] 16 p2500 N84-26040
Possibilities of using ICL: Distributed array processor 16 p2549 N84-26357
Development of land based radar polarimeter processor system
[NASA-CR-173636] 17 p2652 N84-26960
Typesetting and TROFF
[MC-IW-247/83] 17 p2772 N84-27601
Report on U.S. domestic and international telecommunications and information markets
[PB84-166362] 17 p2772 N84-27602
Astronomical application of IR CID technology
[NASA-CR-166584] 18 p2844 N84-28057
Digital interface for bi-directional communication between a computer and a peripheral device
[NASA-CASE-MSC-20258-1] 18 p2916 N84-28482
GDR robotron office computers 18 p2918 N84-28502
Robotron image processing systems 18 p2919 N84-28509
Robotron remote processing systems 18 p2919 N84-28510
Robotron digitalization unit 18 p2919 N84-28511
LONEX (Laboratory Office Network Experiment) cost/benefits study, volume 2
[AD-A141397] 19 p3114 N84-29787
Development of a multidetector deflection measurement system
[DE84-013580] 21 p3410 N84-31631
Flight Experiment Demonstration System (FEDS): Mathematical specification
[NASA-CR-175252] 22 p3539 N84-32405
The Record of Electrical and Communication Engineering Conversazione, volume 52, no. 3, February 1984
[ISSN-0385-7719] 23 p3740 N84-33707
The design of an English word-processor for scientific and technical use in which superscripts, subscripts and Greek characters are operated in one-touch, 1 23 p3741 N84-33709
The design of an English word-processor for scientific and technical use in which superscripts, subscripts and Greek characters are operated in one-touch, 2 23 p3741 N84-33710

DATA PROCESSING TERMINALS
Type KODEK DC modems for use in CYFRONET terminal network
[AD-A131057] 02 p0213 N84-11393
Test Operations Procedure (TOP): Data transmission equipment
[AD-A134711] 08 p1145 N84-17449
Test methodology for the level two subsystem of an X25 procedure for data terminal equipment --- packet switching, open systems interconnection
[FUB-3-1983] 10 p1483 N84-19694
Efficient computation of the k-terminal reliability of directed acyclic networks
[AD-A136900] 10 p1570 N84-20286
IEEE 488 bus pseudo-controller linking talker with listener
[DE84-007093] 12 p1878 N84-22238
Auxiliary programs for the Metal-Enclosed Microstrips Project
[INPE-3172-PRE/542] 21 p3465 N84-31964
Data communication between data terminal equipment and the JPL administrative data base management system 22 p3672 N84-33278

DATA PROCESSORS
U DATA PROCESSING EQUIPMENT

DATA READOUT SYSTEMS
U DATA SYSTEMS
U DISPLAY DEVICES

DATA RECORDERS
Proceedings of the 12th Symposium on Aircraft Integrated Data Systems
[DFVLR-MITT-84-01] 17 p2585 N84-26565
Intelligent flight data recorder: A contribution to on-condition maintenance and optimization of operation 17 p2585 N84-26568
Laser color recording unit
[BMFT-FB-T-84-098] 21 p3411 N84-31633

DATA RECORDING
Flight parameters recording for safety monitoring and investigations 06 p0775 N84-15063
Recording and reproduction of microwave holograms using a scanning procedure and their subsequent optical processing
[NASA-TM-77349] 06 p0846 N84-15519
Decoder for manually digitized radar observations
[PB84-127539] 09 p1351 N84-18826
NOAA position for TM data distribution 10 p1524 N84-19981
Catalog of seismogram archives (revised)
[PB84-127976] 10 p1537 N84-20074
Digital capability for cockpit television sensor instrumentation systems
[AD-A139432] 14 p2106 N84-23626
Synchronization technique of data recorded on a multichannel tape recorder
[AD-A139570] 14 p2148 N84-23868
Designing readable and reusable tables
[RAND/P-6945] 14 p2247 N84-24496
RSRE speech data base recordings (1983). Part 1: Specification of vocabulary and recording procedure
[AD-A139361] 15 p2318 N84-24916
An experimental video disc for map and image display
[AD-A140215] 16 p2510 N84-26110
Engine condition monitoring with aircraft integrated data systems on Lufthansa A310 17 p2585 N84-26571
Failure Identification Module (FIM) for digital control systems — avionics 17 p2586 N84-26573
A multi-GHz multi-channel photonic analog data processing system
[DE84-012281] 21 p3499 N84-32175
System for recording and input to computer of one-dimensional images of dim objects and high-speed processes 24 p3941 N84-34951

DATA REDUCTION
NT DATA SMOOTHING
Results of PLACES data analysis
[AD-A130933] 01 p0066 N84-10432
Proceedings of the United States Air Force and Tri-Service Wind Energy Workshop and Conference
[AD-A130697] 01 p0103 N84-10666
Investigation of air transportation technology at Ohio University, 1982 02 p0167 N84-11100
First experiences with the Mark 3 Very Long Baseline Interferometry (VLBI) data analysis system 02 p0234 N84-11536
Quantile data analysis of image data 03 p0393 N84-12565
Principles of thermal remote sensing 05 p0695 N84-14565
ALDS project: Motivation, statistical database management issues, perspectives, and directions
[DE84-001412] 05 p0780 N84-14983
Mission definition study for a VLBI station utilizing the Space Shuttle
[NASA-CR-175126] 06 p0794 N84-15173
Investigation of antarctic crust and upper mantle using MAGSAT and other geophysical data
[E84-10055] 06 p0864 N84-15627
Uranium anomalies in Wyoming and parts of adjacent states. National Uranium Resource Evaluation
[DE83-005353] 06 p0866 N84-15638
Data analysis and theoretical studies for atmospheric Explorer C, D and E
[NASA-CR-175121] 06 p0878 N84-15711
Pacific Northwest solar radiation data
[DE84-002335] 06 p0882 N84-15738
Urban land use of the Sao Paulo metropolitan area by automatic analysis of LANDSAT data
[E84-10069] 07 p1020 N84-16616
Manual of analytical methods for radiobioassay
[DE84-003978] 08 p1126 N84-17318
Investigations of Doppler position determination following the short arc and semi short arc techniques --- Navy navigation satellite systems 08 p1174 N84-17645
Spaceborne Gravity Gradiometers. Part 4: Common problems 09 p1336 N84-18720
Fourier-Motzkin elimination as a technique for error localization
[DE84-003309] 09 p1379 N84-19009
Data set description and bias --- in astronomy 09 p1408 N84-19197
An automatic procedure to reduce a large amount of spectrophotometric data 09 p1409 N84-19212
Statistical determination of the precision obtained by a photometric reduction algorithm 09 p1410 N84-19217
Thermal test data analysis --- satellite design 10 p1447 N84-19450
Potential transport errors in single-layer wind fields
[DE84-003446] 11 p1675 N84-20932
MA-2026 environmental monitoring system
[DE84-006222] 11 p1676 N84-20938
Weather pattern climatology of the US
[DE84-005883] 11 p1688 N84-21011
Data reduction and analysis for ISEE-A and -B energetic particles flux experiment and ISEE-C electron and X-ray experiments
[NASA-CR-175220] 11 p1760 N84-21486
Post-mission Viking data anaysis
[NASA-CR-173451] 12 p1776 N84-21587
Computational savings in view factor evaluation on mode prescreening --- large space structures 12 p1781 N84-21618
Remote sensing of Earth terrain 12 p1831 N84-21938
Improved HIRS2/MSU soundings using tropopause information 12 p1851 N84-22060
High resolution GLAS on the MCIDAS 12 p1852 N84-22062
LANDSAT 4 investigations of Thematic Mapper and multispectral scanner applications --- Death Valley, California; Silver Bell Copper Mine, Arizona, and Dulles Airport near Washington, D.C.
[E84-10100] 13 p2004 N84-23003
The use of a small digital computer for on-line behavioral experiments
[AD-A138975] 13 p2025 N84-23126
Venus: The nature of the surface from Venera panoramas 13 p2077 N84-23459
Geology of Maxwell Montes, Venus 13 p2077 N84-23460
Solar-Geophysical Data number 471, November 1983. Part 1: (Prompt reports). Data for October 1983, September 1983 and late data
[PB84-156991] 14 p2252 N84-24523
Solar-Geophysical Data number 471, November 1983. Part 2: Comprehensive reports. Data for May 1983 and miscellanea
[PB84-157007] 14 p2252 N84-24524
Plasma and magnetospheric research
[NASA-CR-171031] 15 p2368 N84-25205
Southern Great Basin seismological data report for 1981 and preliminary data analysis
[DE84-005687] 15 p2369 N84-25213
CTD data from the N.E. Atlantic 31N to 46N, July 1982 Discovery cruise 130
[IOS-165] 15 p2372 N84-25233
The front concept and profile reduction numberings
[SNIAS-832-440-102] 15 p2397 N84-25381
Adaptive correction of control machines
[ISD-301] 16 p2484 N84-25929
Correlation methods 17 p2695 N84-27167
Final STS-11 (41-B) best estimate trajectory products: Development and results from the first Cape landing
[NASA-CR-172349] 18 p2802 N84-27786
Microdensitometer errors: Their effect on photometric data reduction 18 p2839 N84-28024
The VAX/VMS device driver and user operation program for the Midwestern Astronomical Data Reduction and Analysis Facility PDS microdensitometer 18 p2841 N84-28036
Storage, retrieval, and analysis of ST data 18 p2843 N84-28051
On-orbit performance of LIPS gallium arsenide solar cell experiment 19 p3045 N84-29319
Testing, data analysis and engineering services on lead-acid load leveling batteries
[DE84-011523] 20 p3180 N84-30198
Review of the Third Biennial Conference on Real-Time Computer Applications in Nuclear and Particle Physics
[DE84-002457] 20 p3266 N84-30720

Multitemporal LANDSAT urban area classification
23 p3768 N84-33886
Trends in Planetary Data Analysis. Executive summary of the Planetary Data Workshop
[NASA-CP-2333] 23 p3841 N84-34363
Analysis of satellite data for sensor improvement (detection of severe storms from space)
24 p3932 N84-34888
VAS sounding data evaluation
24 p3933 N84-34893
RECOZ data reduction and analysis: Programs and procedures
[NASA-TM-87365] 24 p3944 N84-34973
Computer aided data acquisition and control of an internal combustion engine
[AD-A144425] 24 p3946 N84-34990
A method of photo data reduction, with design considerations for the NOVA 800 and UNIVAC 1100/83 computers
[AD-A144537] 24 p3947 N84-34997
IUE data reduction facilities on Starlink
24 p3982 N84-35226
The NASA IUE data analysis facilities
24 p3982 N84-35227

DATA RETRIEVAL

CEREAS: An interactive computer-mapping system for environmental assessments
[DE83-017927] 04 p0585 N84-13864
NASA/MSFC NASTRAN auxiliary I/O routines
06 p0858 N84-15592
Data engineering systems: Computerized modeling and data bank capabilities for engineering analysis
12 p1873 N84-22203
DATMAN FORTRAN user's guide version 3.0
[PB84-149251] 12 p1885 N84-22289
OMEGA documentation
[DE84-007014] 14 p2206 N84-24239
Earthnet: The story of images
[ESA-BR-18] 16 p2509 N84-26102
Virtual Z-trees: A balancing technique for multiway search trees
[INPE-3093-TDL/164] 16 p2547 N84-26348
A study of conference publication records in OCLC: Some implications for the formulation and application of cataloging rules 16 p2566 N84-26464
Optimization of query processing in distributed databases systems 16 p2567 N84-26474
Astronomical Microdensitometry Conference
[NASA-CP-2317] 18 p2839 N84-28020
Photographic memory: The storage and retrieval of data 18 p2843 N84-28053
Applications programs to facilitate use of a DBMS to store and retrieve graphics displays (INGRED 2)
[AD-A138059] 18 p2945 N84-28672
Data integrity factors affecting the construction of the mapping, charting, and geodesy data base
[NASA-CR-173835] 20 p3228 N84-30511
Verification of asynchronous transmissions
[PB84-189885] 20 p3268 N84-30738
Applying artificial intelligence to large networks
21 p3428 N84-31743
Global resources information system
21 p3428 N84-31747
A statistical classification model for a database system 21 p3517 N84-32279
Adaptive subject description in document retrieval
22 p3675 N84-33298

DATA SAMPLING

Journal of Research of the National Bureau of Standards. Volume 87, Number 6, November-December 1982
[PB83-226670] 01 p0160 N84-11056
System for recording, processing and interpreting vertical seismic profiles
[BMFT-FB-T-83-152] 02 p0250 N84-11638
Gust structure and gust statistics. Results from an analysis of atmospheric turbulence measurements by using conditional sampling technique
[FFA-TN-1983-28] 03 p0412 N84-12696
Incident velocity distributions on sampling electrodes of spacecraft plasma instruments 08 p1117 N84-17267
Sampling mismatch and timing jitter in pulse-Doppler radar
[AD-A134683] 08 p1144 N84-17447
Land use inventory and statistical sampling in agriculture — spaceborne remote sensing
08 p1176 N84-17658
Crop area estimation based on remotely-sensed data with an accurate but costly subsample
[E84-10087] 10 p1521 N84-19958
Sampling problems of satellite measurements of radiation budget parameters 10 p1534 N84-20045
Sampling problems and cloud statistics
10 p1534 N84-20048
Parameterization and approximation methods in feedback theory with applications in high gain, fast sampling and cheap optimal control
[RR-241] 13 p2031 N84-23167
Forest inventory using multistage sampling with probability proportional to size — Brazil
[E84-10144] 16 p2507 N84-26092
Area estimation using multiyear designs and partial crop identification
[E84-10151] 16 p2509 N84-26099
Interactive Signal and Pattern Analysis and Recognition Systems (ISPARS). Users' guide
[AD-A141421] 19 p3075 N84-29514
Program descriptions for Interactive Signal and Pattern Analysis and Recognition System (ISPARS)
[AD-A141575] 19 p3077 N84-29522
Multispectral Scanner (MSS) instrument description
20 p3205 N84-30362
Coherent digital demodulation of a residual carrier signal using IF sampling 22 p3574 N84-32634
Forestry inventory based on multistage sampling with probability proportional to size
[INPE-2869-RPE/441] 23 p3763 N84-33855
Selection of data from busses for test
[AD-D011160] 23 p3813 N84-34176
Complex demodulation: A technique for assessing periodic components in sequentially sampled data
[AD-P003845] 24 p3939 N84-34933

DATA SIMULATION

Simulation aspects in the study of rectification of satellite scanner data 03 p0394 N84-12571
Specification and interpretation of data model semantics: An integration of two approaches
[PB83-249714] 04 p0584 N84-13856
Design of relational database benchmarks
[AD-A133651] 05 p0719 N84-14710
A SEASAT SASS simulation experiment to quantify the errors related to a + or - 3 hour intermittent assimilation technique
[E84-10129] 14 p2168 N84-23987

DATA SMOOTHING

Adaptive spectral smoothing
[AD-A132574] 04 p0588 N84-13887
Zooming and smoothing images using convolution procedures
[AD-A135659] 09 p1372 N84-18957
Stochastic techniques applied to the smoothing treatment of bias and compression of artificial satellite tracking and telemetry data
[INPE-2909-TDL/148] 13 p1938 N84-22604
The discrete prolate spheroidal filter as a digital signal processing tool 17 p2696 N84-27174
Data smoothing: An automatic algorithm
[INPE-3034-PRE/468] 17 p2752 N84-27467
Radar data smoothing filter study
[NASA-CR-168347] 18 p2844 N84-28059
Noise reduction and line following in multiscanned data — digital data 19 p3039 N84-29283
Two-dimensional splines
[NASA-CR-173804] 19 p3062 N84-29561
Application of an adaptive noise technique on state estimation to data smoothing
[INPE-3187-PRE/552] 21 p3465 N84-31963
Smoothing on the frequency domain
[INPE-3182-PRE/547] 21 p3471 N84-31997

DATA STORAGE

Fast multichannel analog storage system
[DE83-012711] 01 p0119 N84-10773
The Total Library System (TLS). Volume 1: What it can do for you
[AD-A130336] 01 p0161 N84-11058
Compilation of cooperative data element dictionary of five federal agencies' systems for processing of technical report literature
[AD-A130797] 01 p0161 N84-11059
Fundamentals and physical limits of holographic memories with and without associative recall
[BMFT-FB-DV-83-002] 02 p0225 N84-11475
Subject categories with scope definitions and limitations
[DE83-008754] 02 p0302 N84-11984
Procedures for the transfer of data files between the BRL CYBER computer system and the IBD Hewlett-Packard minicomputer network
[AD-A132063] 03 p0418 N84-12731
Development of a unique Physical Metrology Laboratory Recall System
[DE83-017415] 03 p0423 N84-12767
The computerization of material safety data sheet information
[AD-A131992] 03 p0459 N84-13021
Computer program development specification for Ada integrated environment: Virtual memory methodology, B5-AIE(1).VMM(2)
[AD-A134091] 05 p0726 N84-14767
Modular Optoelectronic Multispectral Scanner (MOMS). Digital image storage
[MBB-UA-686-82-OE] 05 p0746 N84-14901
Mapping applications of video disc technology
[AD-A135842] 09 p1300 N84-18498
Instructional systems development model for interactive videodisc
[AD-A136737] 10 p1498 N84-19790
Near-optimal finite solutions to the 3 and 4 step discrete evasion games
[AD-A136811] 10 p1574 N84-20314
MA-2026 environmental monitoring system
[DE84-006222] 11 p1676 N84-20936
Nonparametric statistics test software package
[AD-A137170] 11 p1708 N84-21132
Implementation and evaluation of a core graphics system on a VAX 11/780 computer with a UNIX operating system
[AD-A138406] 12 p1882 N84-22271
Description of the ACCESS data acquisition system
[DE84-005758] 12 p1919 N84-22506
NASTEK: Interactive display of NASTRAN-generated plots
[AD-A136831] 13 p2001 N84-22983
Order-preserving dynamic hashing schemes for associative searching in data base systems
13 p2066 N84-23400
Documentation for the machine-readable version of a table of Redshifts for Abell clusters (Sarazin, Rood and Struble 1982)
[NASA-TM-85571] 13 p2070 N84-23417
A study of error detection and correction codes
[AD-A139398] 14 p2158 N84-23917
Space and time analysis in dynamic programming algorithms
[AD-P002963] 14 p2200 N84-24203
OMEGA documentation
[DE84-007014] 14 p2206 N84-24239
Holographic data storage crystals for LDEF (A0044)
15 p2277 N84-24677
Compression and Decompression of Imaging Sensor Signals (CADISS): An image (de)compression system for deep space application
[NLR-MP-83028-U] 15 p2390 N84-25330
The front concept and profile reduction numberings
[SNIAS-832-440-102] 15 p2397 N84-25381
Expanding the permanent file directory on the CDC (Control Data Corporation) NOS/BE (Network Operating System/Batch Environment) operating systems
[AD-A140005] 15 p2418 N84-25519
Earthnet: The story of images
[ESA-BR-18] 16 p2509 N84-26102
An experimental video disc for map and image display
[AD-A140215] 16 p2510 N84-26110
A high performance bulk memory system
[AD-A140780] 17 p2749 N84-27451
Bringing together various programs and data packets in the ZX81/TS1000/TK82C/CP200 memory
[INPE-3013-PRE/456] 17 p2752 N84-27466
Astronomical Microdensitometry Conference
[NASA-CP-2317] 18 p2839 N84-28020
Photographic memory: The storage and retrieval of data 18 p2843 N84-28053
Utilization of basic language programming with EEPROM technology for data acquisition applications and development
[DE84-010380] 18 p2921 N84-28526
NIMBUS observation processing system requirements NG-13. ERB master archival. Tape specification no. T134081 ERB Mst, revision 1
[NASA-TM-85388] 18 p2944 N84-28668
Applications programs to facilitate use of a DBMS to store and retrieve graphics displays (INGRED 2)
[AD-A138059] 18 p2945 N84-28672
A distributed memory management system for PASM
[AD-A141360] 19 p3072 N84-29487
A software scheme for managing magnetic tape storage space
[AD-A142847] 21 p3465 N84-31969
Abstraction, specification and implementation techniques with an application to garbage collection — data processing
[MATH-CENTRE-TRACTS-166]
21 p3467 N84-31980
Key to oceanographic records documentation
[PB84-186360] 21 p3519 N84-32299
Improved techniques for data acquisition and analysis on X-ray diffraction equipment
[Y-2282] 23 p3750 N84-33774
Planetary Data Workshop, part 2
[NASA-CP-2343-PT-2] 23 p3842 N84-34376
Planetary science analysis support system: Hardware report 23 p3843 N84-34382
Data buffer apparatus between subsystems which operate at differing or varying data rates
[AD-D011206] 24 p3940 N84-34941

Structural approach to design of multiprocessor database management system
24 p3942 N84-34953
Algorithms and file structures for computational geometry
[AD-A144381] 24 p3951 N84-35018

DATA STRUCTURES
Concurrent Pascal for RSX-11M
[HEDL-TME-82-46] 01 p0120 N84-10777
Relational programming
[AD-A133643] 05 p0728 N84-14779
An analytical model for evaluating database update schemes 05 p0760 N84-14986
Automated synthesis of digital hardware modules: Simulation and verification of interconnections
[AD-A135298] 08 p1210 N84-17869
Automatic synthesis of abstract data type implementations from abstract specifications
08 p1211 N84-17896
The automated information retrieval system in the field of science and science Policy--AWION
[AD-A135565] 09 p1404 N84-19174
A data structure for VLSI synthesis and verification
[AD-A137880] 11 p1647 N84-20769
User-friendly interface to the Roth relational database
[AD-A136153] 12 p1877 N84-22234
ADA1: An ADA subset compiler for the AFIT syntax directed programming environment
[AD-A136027] 12 p1880 N84-22251
The operator mapping between relational algebra operators and CODASYL based databases managed by a CODASYL DBMS
[AD-A138117] 12 p1918 N84-22497
Syntax and semantics of a LINCS control monologue
[DE84-011399] 20 p3277 N84-30805
Geocoded data structures and their applications to Earth science investigations
[NASA-TM-86113] 24 p3968 N84-35127

DATA SYSTEMS
NT NEEDS (DATA SYSTEM)
Defense data network subscriber interface guide
[AD-A132877] 05 p0670 N84-14406
Handling and processing of hydrographic data
[REPT-111] 07 p1041 N84-16751
Space Station needs, attributes and architectural options. Volume 2, book 2, part 2, Task 2: Information management system
[NASA-CR-173317] 09 p1271 N84-18301
Assessment of data handling configurations for onboard operating system definition (phase 1)
[ESA-CR(P)-1787] 09 p1273 N84-18314
Spacelab Data Processing Facility
[NASA-TM-85556] 10 p1435 N84-19382
Data engineering systems: Computerized modeling and data bank capabilities for engineering analysis
12 p1873 N84-22203
The representation and synthesis of design specifications for distributed software systems
13 p2030 N84-23163
Primer on Integrated Services Digital Networks (ISDN): Implications for future global communications
[PB84-152586] 14 p2141 N84-23839
Dataflow computing approach in high-speed digital simulation
[NASA-CR-173552] 15 p2389 N84-25336
Are we giving aircraft integrated data systems users the best information in the best way at the best time?
17 p2565 N84-26566
Access to maintenance via Aircraft Integrated Data System (AIDS): Future aspects of the expanded AIDS
17 p2565 N84-26567
Engine condition monitoring with aircraft integrated data systems on Lufthansa A310 17 p2565 N84-26571
First experience with ARINC 717 Aircraft Integrated Data Systems (AIDS) on Airbus 310 for maintenance support
17 p2566 N84-26572
Airline experience with avionic software development for aircraft integrated data systems
17 p2567 N84-26581
Aircraft Integrated Data Systems (AIDS) on medium size aircraft 17 p2567 N84-26582
The silicon AIDS (Airborne Integrated Data Systems)
17 p2567 N84-26583
American National Standard X3.102 user reference manual -- data communication systems and services
[PB84-155571] 17 p2654 N84-26977
Assessment of data handling configuration for on-board operation system definition
[DM55/JPS/JP/321.82] 19 p2962 N84-28898
Horizon and Prime Communication Programs HCP and PCP
[REPT-72/84/R006U] 19 p3003 N84-29033
Meteorological interactive data display system (MIDDA)
[AD-A141664] 19 p3059 N84-29406
Design and performance of a distributed relational data base system
[AD-A142177] 19 p3073 N84-29495
Operations manual for the data acquisition and reduction system, Area III Actuator Test Facility
[DE84-006906] 19 p3116 N84-29803
Selection of a general purpose language and a real-time language suitable for shipboard data system 3
[PB84-180892] 20 p3275 N84-30795
BRESEX: On board supervision, basic architecture and preliminary aspects for payload and space shuttle interface
[NASA-CR-173673] 21 p3353 N84-31271
Trends in Planetary Data Analysis. Executive summary of the Planetary Data Workshop
[NASA-CP-2339] 23 p3841 N84-34363
Planetary Data Workshop, part 2
[NASA-CP-2343-PT-2] 23 p3842 N84-34376
Database management 23 p3843 N84-34377
Non-imaging software/data analysis requirements
23 p3843 N84-34379
Networking 23 p3843 N84-34381

DATA TRANSMISSION
NT CODE DIVISION MULTIPLE ACCESS
NT FREQUENCY DIVISION MULTIPLE ACCESS
NT MULTIPLE ACCESS
NT SINGLE CHANNEL PER CARRIER TRANSMISSION
A comparison of the domestic satellite communications forecast to the year 2000
[NASA-TM-83516] 01 p0062 N84-10405
Transmission lines with very lossy conductors and seawater return
[AD-A130739] 01 p0065 N84-10427
Compilation of cooperative data element dictionary of five federal agencies' systems for processing of technical report literature
[AD-A130797] 01 p0161 N84-11059
Automatic-repeat-request error control schemes
[NASA-CR-170605] 02 p0207 N84-11353
MIL-STD-1553 multiplex applications handbook. Addendum: Chapter 11
[AD-A131551] 02 p0210 N84-11372
The FASTBUS segment driver microcode description
[DE83-017972] 04 p0523 N84-13437
Digital communications over satellite channels
05 p0664 N84-14365
Description of the preliminary measurements carried out on the 11 GHz experimental facility at Roma-Monte S. Pancrazio
[FUB-39-1982] 05 p0671 N84-14411
DEF STAN 00-18: A family of compatible digital interface standards 06 p0771 N84-15049
Techniques for interbus communication in a multibus avionic system 06 p0771 N84-15050
Network communications for a distributed avionics system 06 p0771 N84-15052
Spread spectrum transmission. Part 1: General characteristics
[FUB-49-1982-PT-1] 06 p0826 N84-15385
Interrange scheduling and Universal Documentation System (UDS) document development and transmission
[AD-A134398] 07 p0961 N84-16230
Monitoring of ship routes via satellite
[DFVLR-MITT-83-15] 07 p0963 N84-16240
Telemetered seismic network--'System 768'
[AD-A133143] 07 p0963 N84-16245
Permanence analysis of a concatenated coding scheme for error control
[NASA-CR-175345] 07 p0991 N84-16422
System integration and interface transition issues
[AD-A134583] 07 p0994 N84-16442
Performance evaluation of circuit switching for data networks
[ENST-C-83001] 07 p1056 N84-16842
Test Operations Procedure (TOP): Data transmission equipment
[AD-A134711] 08 p1145 N84-17449
Microfiche Image Transmission System (MITS) demonstration field evaluation of microfacsimile
[AD-A134716] 08 p1145 N84-17450
Method for counting errors, deletions, and additions when both transmitted and received data are known
[PB84-127620] 09 p1305 N84-18531
Analysis of reliable multicast algorithms for local networks
[AD-A135807] 09 p1369 N84-18935
Spacelab Data Processing Facility
[NASA-TM-85556] 10 p1435 N84-19382
Data transmission at 1200 Baud in mobile or fixed radio links with interchannel interferences
10 p1478 N84-19655
Interface control document for RT-XXXX/ARC-164 UHF-AM radio
[AD-A136970] 10 p1481 N84-19681
Analysis of receivers provided with equalizers for digital radio links in the presence of multipath fading
[FUB-56-1982] 10 p1483 N84-19691
Analysis of the behavior of some types of synchronizer for numerical radio links in the presence of atmospheric multipath transmission
[FUB-57-1982] 10 p1483 N84-19692
Data communications in the mobile radio channel
[EUT-83-E-142] 10 p1484 N84-19700
Fundamentals of mode S parity coding
[DOT/FAA/PM-83/6] 11 p1642 N84-20736
Advanced teleprocessing systems
[AD-A137944] 11 p1644 N84-20747
Fiber-optic communications systems
[AD-A137138] 11 p1644 N84-20749
Computer communications with Mauna Loa Solar Observatory
[PB84-137256] 11 p1705 N84-21114
Design of a twisted pair cable for a token passing local area network 11 p1724 N84-21249
Design/Process optimization of paired computer interconnecting cable for local area networks
11 p1725 N84-21251
Linearization of an analog fiber-optic system using the quasi-feedforward technique
[AD-A137529] 11 p1731 N84-21294
Effect of data latency upon missile accuracy
[AD-A138048] 12 p1778 N84-21600
Satellite data relay and platform locating in oceanography. Report of the In Situ Ocean Science Working Group
[NASA-TM-85443] 12 p1880 N84-22116
IEEE 488 bus pseudo-controller linking talker with listener
[DE84-007093] 12 p1878 N84-22238
Local network wideband interconnection alternatives
[AD-A138604] 13 p1982 N84-22868
Fast evaluation of the numerical error rate in the presence of intersymbolic interference
[CRPE-NT-127] 13 p2029 N84-23158
Adaptive hybrid picture coding
[AD-A138876] 13 p2033 N84-23184
Strategies and mechanisms for the diffusion of scientific and technical information: A comparative study
13 p2067 N84-23406
Ternary transmission to local area networks
[AD-P002360] 14 p2193 N84-24151
Project FIRST (Faculty Information and Research Service for Texas) technical description of project and results
[PB84-161629] 14 p2248 N84-24501
Fiber optic data transmission experiment (S0109)
15 p2279 N84-24688
An experimental system of FM data-broadcasting
[NHK-SERIAL-293] 15 p2319 N84-24919
Satellite Data Transmission (SDT) requirement
[NASA-CR-175231] 15 p2319 N84-24920
Wideband integrated voice/data technology
[AD-A139924] 15 p2321 N84-24937
Study on spectral/radiometric characteristics of the Thematic Mapper for land use applications
[E84-10130] 15 p2357 N84-25140
World Weather Watch Planning report no. 38: Very short range forecasting: Observations, methods and systems
[WMO-621] 15 p2371 N84-25226
Special or general purpose end-to-end transport mechanisms in distributed systems: One view
[DE84-008297] 15 p2395 N84-25367
Earthnet: The story of images
[ESA-BR-18] 16 p2509 N84-26102
Defense switched network technology and experiments program
[AD-A140609] 17 p2653 N84-26968
Digital interface for bi-directional communication between a computer and a peripheral device
[NASA-CASE-MSC-20258-1] 18 p2916 N84-28492
Exhibit of new technology 18 p2918 N84-28505
Robotron remote processing systems
18 p2919 N84-28510
MITS II (Microfiche Image Transmission System) investigations and design alternatives
[AD-A141040] 18 p2945 N84-28673
Verification of asynchronous transmissions
[PB84-189885] 20 p3268 N84-30738
Computer science and technology: Report on approaches to database translation
[NBS-SP-500-115] 20 p3268 N84-30739
Graphics workstation switching unit
[DE84-011626] 20 p3275 N84-30788
Argonne integrated heterogeneous file transfer network
[DE84-012092] 20 p3277 N84-30803
Syntax and semantics of a LINCS control monologue
[DE84-011399] 20 p3277 N84-30805

Serial link protocol design: A critique of the X.25 standard, level 2
[DE84-002724] 20 p3278 N84-30606
Experimental evaluation of a high frequency radio data terminal in the ship-shore mode
[CRC-1375] 21 p3362 N84-31458
DEC LSI-11/HP9895A software
[DE84-012412] 21 p3462 N84-31952
Analysis of space telescope data collection systems
[NASA-CR-171129] 21 p3464 N84-31958
A strategy for successful deep space information transmission in bad weather 22 p3574 N84-32635
GCF compatibility with packets and data compression 22 p3575 N84-32641
Autonomous Integrated Receive System (AIRS) requirements definition. Volume 1: Executive summary
[NASA-CR-175261] 22 p3575 N84-32646
Autonomous Integrated Receive System (AIRS) requirements definition. Volume 2: Design and development
[NASA-CR-175262] 22 p3576 N84-32647
Higher layer protocols for a workstation architecture
[DE84-013649] 22 p3641 N84-33087
Asynchronous file transfer to IBM PC's 22 p3672 N84-33275
LaRC local area networks to support distributed computing 22 p3673 N84-33281
Decommutation system
[INPE-3148-NTE/220] 23 p3730 N84-33639
Selection of data from busses for test
[AD-D011160] 23 p3813 N84-34176
User's guide for an IBM PL/I implementation of the international standard organization DIS 8211 information processing-specification for a data descriptive file for information interchange
[ORNL/CSD-TM-207] 23 p3814 N84-34188
Decentralized system theory
[DE84-013658] 23 p3820 N84-34227
Optical flip-flop system
[AD-D011165] 23 p3825 N84-34261

DATING
U CHRONOLOGY
U TIME MEASUREMENT

DAYGLOW
An extreme ultraviolet spectrometer experiment for the Shuttle Get Away Special Program 18 p2801 N84-27778

DC (CURRENT)
U DIRECT CURRENT

DC 10 AIRCRAFT
Evaluation of an improved flame resistant aircraft window system
[FAA-CT-83-10] 17 p2603 N84-26680
Cockpit data management requirements (current technology aircraft)
[AD-A140643] 17 p2607 N84-26699
Experimental investigation of elastic mode control on a model of a transport aircraft
[NASA-CR-3472] 18 p2792 N84-27721

DE HAVILLAND AIRCRAFT
Aircraft accident report: Sierra Pacific Airlines, DHC-6-300, N361V, Hailey, Idaho, February 15, 1983
[PB84-910403] 12 p1767 N84-21525

DE LAVAL NOZZLES
U CONVERGENT-DIVERGENT NOZZLES

DEACCLIMATIZATION
U ACCLIMATIZATION

DEACTIVATION
Determination of a jet fuel metal deactivator by high performance liquid chromatography
[AD-A132220] 04 p0509 N84-13336
Interactions of vibrationally excited molecules with solid surfaces
[AD-A133449] 06 p0915 N84-15950
Deactivation of higher vibrational levels of HF by F atoms
[AD-A140853] 17 p2673 N84-27034
Deactivation of thionyl chloride cells
[AD-D011113] 22 p3615 N84-32908

DEAD RECKONING
Reference systems for the evaluation of dead-reckoning navigation equipment 24 p3848 N84-34406

DEADWEIGHT
U STATIC LOADS

DEAFNESS
U AUDITORY DEFECTS

DEATH
Nonparametric estimation of the distribution of time to onset for specific diseases in survival/sacrifice experiments
[DE83-013726] 01 p0112 N84-10726
Civilian residential fire fatality rates: Six high-rate states versus six low-rate states
[PB84-102615] 08 p1142 N84-17427
Suicide gestures of USAF basic trainees
[AD-P003245] 18 p2903 N84-28412

DEATH VALLEY (CA)
Contribution of LANDSAT-4 thematic mapper data to geologic exploration
[E84-10021] 02 p0237 N84-11557
Assessment of computer-based geologic mapping of rock units in the LANDSAT-4 scene of northern Death Valley, California 20 p3214 N84-30416
The depositional environments and petrography of the Stirling Quartzite Death Valley Region, California and Nevada 21 p3439 N84-31816

DEBRIS
NT SPACE DEBRIS
Prediction of hydraulic pump failures through wear debris analysis
[AD-A131386] 02 p0229 N84-11503
Particulate erosion mechanisms
[NASA-TM-83551] 05 p0652 N84-14289
FOD (Foreign Object Damage) generation by aircraft tires — probability of engine ingestion and airfield surface movements
[AD-A133319] 06 p0786 N84-15146
Thermohydraulics of LMFBR core catchers — liquid metal fast breeder reactors (LMFBR) 06 p0843 N84-15500
Pershing II simulation studies. Debris dynamics and 2.75 rocket 6-DOF (Degree Of Freedom)
[AD-A139130] 14 p2113 N84-23683
Plastic deformation of ice single crystals containing inclusions 15 p2353 N84-25114

DEBUGGING
U CHECKOUT

DEBYE LENGTH
Creating unstable velocity-space distributions with barium injections
[DE83-012783] 02 p0250 N84-11635

DEBYE TEMPERATURE
U SPECIFIC HEAT

DEBYE-HUCKEL THEORY
Thermodynamics of condensed ionic systems
[DE84-001823] 05 p0755 N84-14950

DECAMETRIC WAVES
Contending with jamming in decametric waves in an adaptive system of all-directional antennas 06 p0888 N84-15853

DECARBOXYLATION
ECUT: Energy Conversion and Utilization Technologies program. Chemical Processes project report, FY 1982
[NASA-CR-173212] 07 p1025 N84-16642

DECAY
NT ACOUSTIC EMISSION
NT BIOLUMINESCENCE
NT CATHODOLUMINESCENCE
NT CHEMILUMINESCENCE
NT CN EMISSION
NT ELECTROLUMINESCENCE
NT ELECTRON EMISSION
NT EMISSION
NT EXHAUST EMISSION
NT FIELD EMISSION
NT FLUORESCENCE
NT HALF LIFE
NT HYDROXYL EMISSION
NT ION EMISSION
NT LIGHT EMISSION
NT LUMINESCENCE
NT MICROWAVE EMISSION
NT NEUTRON DECAY
NT NEUTRON EMISSION
NT NUCLEAR FISSION
NT OPTICAL RESONANCE
NT PARTICLE EMISSION
NT PHOSPHORESCENCE
NT PHOTOELECTRIC EFFECT
NT PHOTOELECTRIC EMISSION
NT PHOTOIONIZATION
NT PHOTOLUMINESCENCE
NT PHOTOPRODUCTION
NT PLASMA DECAY
NT RADIO EMISSION
NT RADIOACTIVE DECAY
NT RESONANCE FLUORESCENCE
NT SECONDARY EMISSION
NT SOLAR RADIO BURSTS
NT SOLAR RADIO EMISSION
NT SPECTRAL EMISSION
NT SPONTANEOUS EMISSION
NT STIMULATED EMISSION
NT STRANGENESS
NT THERMAL EMISSION
NT THERMIONIC EMISSION
NT THERMOLUMINESCENCE
NT WATER MASERS
NT WEAK ENERGY INTERACTIONS
NT X RAY FLUORESCENCE
Predicting lake ice decay
[AD-A132012] 03 p0401 N84-12618

HI-182: A new stopwatch for the early solar system
[DE83-011486] 07 p1090 N84-17088
Wavelength scaling of the two plasmon decay and stimulated Raman scattering instabilities
[DE84-006934] 18 p2647 N84-28077
Experiments and theory on half-harmonic light and 2-plasmon decay
[DE84-008945] 20 p3193 N84-30276
The 19th Moriond meeting: Summary talk
[DE84-010053] 20 p3319 N84-31072

DECAY RATES
Proceedings of the Summer Workshop on Proton Decay Experiments
[DE83-009572] 04 p0603 N84-13980
Light scattering measurements of critical fluctuations in an optically thin binary liquid sample 17 p2765 N84-27559
Testing the six quark scheme
[PREPRINT-402] 23 p3823 N84-34247

DECCA NAVIGATION
Investigation of the positioning system at Recal-Decca Survey Ltd. (RDS), London
[FOA-C-20478-D6(E2,E3)] 07 p0950 N84-16162

DECELERATION
NT SPIN REDUCTION
Improved four-stage accel-decel production of low-energy stripped heavy ions
[DE83-005791] 06 p0910 N84-15908
Laser cooling and trapping of neutral atoms
[AD-A134333] 07 p1009 N84-16547
IRAAM wind tunnel test, task 3
[AD-A135256] 08 p1099 N84-17148
Statistical problems in the determination of the cosmological deceleration parameter qo 09 p1412 N84-19233
An investigation of a new flight test method for measuring the performance of general aviation aircraft 22 p3534 N84-32375
Possible identifying characteristics of Be stars 24 p3976 N84-35185

DECELERATORS
U BRAKES (FOR ARRESTING MOTION)

DECEPTION
Military deception: A clinical psychological analysis
[AD-P003239] 18 p2902 N84-28406

DECIMETER WAVES
Use of electromagnetic field in patients following a disruption of cerebral circulation 07 p1044 N84-16766
Thermal and nonthermal phenomena in solar flare loops at 20 cm wavelength and in X-rays
[NASA-CR-173429] 14 p2252 N84-24522
Effect of decimeter waves on physical-chemical state of membranes, thymocyte chromatin and immunological reactivity of an organism 17 p2742 N84-27411
Television transmitting antenna of decimeter band system based on tubes 720 and 1020 mm in diameter 21 p3377 N84-31431

DECISION ELEMENTS
U LOGICAL ELEMENTS

DECISION MAKING
Task validation for studies on fragmented sleep and cognitive efficiency under stress
[AD-A130260] 01 p0116 N84-10753
A critical analysis of the uses of multiple regression in the study of human judgement
[AD-A131224] 01 p0116 N84-10755
Proceedings of the 18th Annual Conference on Manual Control
[AD-A131256] 01 p0118 N84-10763
Weighing evidence: The design and comparison of probability
[AD-A131475] 01 p0137 N84-10896
Improved management of scientific progress in Armenia urged 01 p0158 N84-11041
Science and technology programs discussed 01 p0158 N84-11045
A comparative evaluation of quantitative decision-making approaches
[PB83-214106] 01 p0159 N84-11050
A comparative evaluation of quantitative decision-making approaches
[PB83-214114] 01 p0159 N84-11051
A conceptual study of automatic and semi-automatic quality assurance techniques for round image processing
[NASA-CR-170610] 02 p0230 N84-11506
Hydrographic survey requirements system (HYSUR)
[AD-A131115] 02 p0240 N84-11573
Analysis of gases in the Earth's crust
[PB83-243972] 02 p0251 N84-11643
Natural language communication with machines: An ongoing goal
[AD-A131320] 02 p0278 N84-11820

Motivating managers: A guide to performance targeting and performance-based pay in state and local governments
[PB83-237634] 02 p0301 N84-11978

Search among queues
[AD-A131639] 03 p0424 N84-12773

TRAN-STAT (statistics for environmental studies). Issue no. 24: Field sampling designs, simple random and stratified random sampling
[DE83-016626] 03 p0427 N84-12803

Information resources management plan
[AD-A131984] 03 p0459 N84-13023

Building systems and smoke control
04 p0511 N84-13348

Slippery versus slip resistant work surfaces: The background for a regulatory definition
[PB83-243634] 04 p0516 N84-13392

Decision making and information processing under various uncertainty conditions
[AD-A132051] 04 p0572 N84-13770

External versus intuitive reasoning: The conjunction fallacy in probability judgment
[AD-A131801] 04 p0574 N84-13778

Model Statement Language/analyzer (MSL/MSA): A top-down Problem Statement Language/analyzer (PSL/PSA) approach for the user dialogue in decision support systems
[AD-A132273] 04 p0580 N84-13829

Interacting weights in multiple attribute decision making
[CSIR-TWISK-270] 04 p0586 N84-13874

PLY: A system of plausibility inference with a probabilistic basis
[AD-A132537] 04 p0588 N84-13889

Knowledge base management for model management systems
[AD-A132211] 04 p0615 N84-14062

Value of flow calibration for decision making in infiltration/inflow studies
[PB83-259739] 05 p0682 N84-14483

Research in knowledge representation for natural language understanding
[AD-A134102] 05 p0726 N84-14765

Project management techniques for highly integrated programs
[NASA-TM-86023] 05 p0757 N84-14965

Human visual information processing: Basic viewpoints from psychology and human engineering research
[NLR-MP-82032-U] 06 p0892 N84-15798

Computer based landing signal officer carrier aircraft recovery model
[AD-A133507] 06 p0894 N84-15808

Ambiguity and uncertainty in probabilistic inference
[AD-A133418] 06 p0905 N84-15872

Perspectives on oversight management of software development projects
[AD-A133404] 06 p0933 N84-16064

A theory of diagnostic inference: Judging causality
[AD-A133172] 07 p1049 N84-16798

Maze-solving as a performance measurement tool for human operations under time-stress
[AD-A133394] 07 p1050 N84-16799

Aids for decision making with conflicting objectives
[CSIR-SWISK-32] 07 p1059 N84-16861

Development and Use of Numerical and Factual Data Bases
[AGARD-LS-130] 07 p1065 N84-17059

The evaluation/validation process: Practical considerations and methodology for the evaluation of phenomenological data
07 p1066 N84-17064

Knowledge representation and natural-language semantics
[AD-A135476] 08 p1212 N84-17905

Mutual adaptiveness of man and machine in information acquisition tasks
[AD-A135449] 08 p1216 N84-17932

Search algorithms and their implementation
[AD-A135154] 08 p1219 N84-17953

A method of measurement of behavioral factors affecting information systems design and use: An application of multidimensional scaling in uncovering individual psychological structure
08 p1239 N84-18099

Velocity control decision-making ability: Relationship to flying capability and experience
[AD-A136546] 09 p1363 N84-18901

Strategies of cooperation in distributed problem solving
[AD-A136527] 09 p1371 N84-18955

Dynamic sequence assignment
[AD-A136548] 09 p1384 N84-19037

Search with limited resources
[AD-A136122] 09 p1384 N84-19039

Multiyear subcontractor selection criteria analysis
[AD-A135636] 09 p1397 N84-19126

Q-GERT model of the contracting cycle
[AD-A135639] 09 p1398 N84-19127

Economic analysis model program user's manual (Burroughs version)
[AD-A135950] 09 p1405 N84-19182

Distributed optimization algorithms with communications
[AD-A137476] 10 p1480 N84-19672

Effort and accuracy in choice
[AD-A136681] 10 p1550 N84-20161

Computing confidences in tactical rule-based systems by using Dempster-Shafer theory
[AD-A137274] 10 p1562 N84-20237

On the complexity of distributed decision problems
[AD-A137443] 10 p1570 N84-20283

Approaches to automatic strategy analysis and synthesis
[AD-A137067] 10 p1573 N84-20312

Knowledge-based support systems for long range planning
[AD-A137311] 10 p1591 N84-20424

Report on an information trip to Holland, August - September 1983 — conference, decision making
[FOA-C-59006-H2] 10 p1592 N84-20431

Decision theory: Individual biases and their effect on forecasting in an organization
[AD-A137943] 11 p1746 N84-21395

Research and theory on predecision processes
[AD-A137962] 12 p1866 N84-22163

Societal versus individual decision making: How they might differ
[IZF-1983-20] 12 p1867 N84-22166

Equal weights, flat maxima, and trivial decisions
[AD-A138506] 12 p1895 N84-22342

Information processing and decisionmaking organizations: A mathematical description
[AD-P002678] 13 p1978 N84-22839

Software for explicitly probabilistic mathematics
[AD-P002681] 13 p1978 N84-22842

Command decision makers and their modes of interaction
[AD-P002682] 13 p1978 N84-22843

Information theoretic models of memory in human decisionmaking models
[AD-P002683] 13 p1978 N84-22844

Human decisionmaking in dynamic environments with increasing information processing demands
[AD-P002684] 13 p1979 N84-22845

Individual differences in military decisionmaking: The classification performance of active sonar operators
[AD-P002685] 13 p1979 N84-22846

Decision and display analysis in a simple surveillance problem
[AD-P002686] 13 p1979 N84-22847

The effects of a spatial information format on decision making performance in a C3 (Command, Control, and Communications) probabilistic information integration task
[AD-P002687] 13 p1979 N84-22848

Tactical decision aids which quantify judgment
[AD-P002689] 13 p1979 N84-22850

A knowledge based interactive procedure for planning and decision support under uncertainty and parameter imprecision
[AD-P002690] 13 p1979 N84-22851

An evaluation of ARIADNE (alternative ranking interactive aid based on dominance structure information elicitation)
[AD-P002691] 13 p1980 N84-22852

Research on cognitive collaboration between persons and computers
[AD-P002692] 13 p1980 N84-22853

Multi-sensor fusion, communications and information warfare
[AD-P002695] 13 p1980 N84-22855

The design of information structures: Basic allocation strategies for organizations
[AD-P002909] 13 p1981 N84-22861

Informational aspects of a class of subjective games of incomplete information
[AD-P002910] 13 p1981 N84-22862

Dynamic, hierarchical decision problems
[AD-P002912] 13 p1981 N84-22863

Ability and expertise in act generation
[AD-A137973] 13 p2022 N84-23110

Problem analysis and definition in act generation
[AD-A137978] 13 p2022 N84-23111

Cost risk trade-offs in timing the production decision
[AD-P002753] 13 p2050 N84-23300

Managing program risk: One way to reduce cost growth
[AD-P002754] 13 p2051 N84-23301

DECISION TECHNOLOGY: The catalyst for acquisition improvement
[AD-P002755] 13 p2051 N84-23302

Designing the equitable risk contract
[AD-P002756] 13 p2051 N84-23303

Competitive procurements: The synergistic linkage among government, industry and academe
[AD-P002773] 13 p2053 N84-23320

The make or buy decision--its nature and impact
[AD-P002779] 13 p2054 N84-23326

Computer Aided Source Selection (CASS)
[AD-P002785] 13 p2055 N84-23332

An automated airframe production cost model
[AD-P002787] 13 p2056 N84-23334

Expert systems for price analysis: A feasibility study
[AD-P002795] 13 p2057 N84-23341

Program Manager's Support System (PMSS): An update
[AD-P002825] 13 p2062 N84-23370

The Score technique: An analytical approach for assessing the results of manufacturing reviews
[AD-P002838] 13 p2064 N84-23383

Command Post Modern/Processor (CPM/P)
[AD-P002151] 14 p2138 N84-23816

Research agenda in non-linear decision systems
[PB84-161207] 14 p2187 N84-24102

Axiomatic characterization and comparative analysis of preference on desirability and possibility
[AD-P002329] 14 p2189 N84-24120

High value target modeling for tactical decision aids
[AD-P002953] 14 p2199 N84-24193

Decision algorithms in fuzzy situations
[AD-P002968] 14 p2201 N84-24205

The Extended Multi-Attribute Decision Analysis Model (EMADAM)
[AD-A139510] 14 p2206 N84-24237

Interactive signal synthesis system user's guide
[AD-A139594] 14 p2206 N84-24238

Data envelopment analysis and extensions for decision support and management planning
[AD-A139430] 14 p2246 N84-24489

A summary of HDM
15 p2386 N84-25312

Automatic construction of verification generators from Hoare logics
15 p2386 N84-25313

Interactive decision analysis and modelling
[CSIR-TWISK-294] 15 p2400 N84-25403

Decision support for innovation management: Application to the lighting industry
[IIASA-RR-83-29] 15 p2416 N84-25503

What's domain skill? Frames in information seeking
[FOA-C-53014-H2] 15 p2417 N84-25515

The ESA activities on future launchers
16 p2441 N84-25657

Problems of computing costs in decision problems
16 p2505 N84-26075

Reliability and discernability of extended Gauss-Markov models
16 p2505 N84-26076

Development of a model for human operator learning in continuous estimation and control tasks
[AD-A140320] 16 p2538 N84-26294

Statistical methods of pattern recognition
[ISBN-2-7225-0694-7] 16 p2544 N84-26330

Discourse structures for text generation
[AD-A140278] 16 p2546 N84-26342

Subset selection procedures: A review and an assessment
[AD-A140266] 16 p2551 N84-26368

Management. A continuing bibliography for NASA managers, with indexes
[NASA-SP-7500(18)] 16 p2561 N84-26429

Risk: The long and the short
[AD-A140580] 17 p2746 N84-27436

A player's manual for a complex disaster decision simulation
[AD-A140776] 17 p2747 N84-27438

Integrating research on perceived and acceptable risk within the psychometric paradigm
[AD-A140833] 17 p2747 N84-27440

The impact of communicating through computers
17 p2750 N84-27457

PROJMNG FORTRAN: An interactive computer program for use with the defense management simulation exercise
[AD-A140709] 17 p2753 N84-27472

Evaluating organizational change through improved understanding of managerial schemata
17 p2771 N84-27596

Psychology and study of human factor in management
18 p2898 N84-28382

Exploring the interaction of the Vroom/Yetton model and leadership style (LPC) (Least Preferred Coworker) as it predicts performance
[AD-P003247] 18 p2904 N84-28414

Subordinate perceptions of contingent leaders: Do followers accept our theories?
[AD-P003248] 18 p2904 N84-28415

To the wilderness and beyond: The application of a model for transformal change
[AD-P003249] 18 p2904 N84-28416

Risk-taking performance of military personnel: Sex differences and practice effects
[AD-P003262] 18 p2906 N84-28429
Prototype development of an information-sharing and decision support system for the manpower personnel and training community
[AD-P003310] 18 p2909 N84-28451
Training decision-makers to be creative: A management process model
[AD-P003347] 18 p2912 N84-28466
The design of an expert system for contract price analysis
[AD-A140927] 18 p2943 N84-28662
Nonlaboratory techniques for the study of cognitive and decision-making processes: A description and selected bibliography
[AD-A141732] 19 p3067 N84-29458
Pilot interaction with automated airborne decision making systems
[NASA-CR-173782] 19 p3068 N84-29464
The duality between expected utility and penalty in stochastic linear programming
[AD-A141393] 19 p3075 N84-29513
Adaptive modeling and real-time simulation
[AD-A141648] 19 p3095 N84-29656
The representation of part-whole information in memory
[PB84-180140] 20 p3263 N84-30701
Supervisory control: introduction and theory — industrial plant control 20 p3263 N84-30706
Fault management 20 p3264 N84-30709
Treatment of patients with a lesion of the brachial plexus 20 p3264 N84-30712
Interaction of human cognitive models and computer-based models in supervisory control
[AD-A142677] 20 p3265 N84-30717
Network repair level analysis model user's guide
[AD-A141991] 20 p3269 N84-30743
Knowledge-based expert systems for crop identification 21 p3428 N84-31744
The effect of information display format on multiple-cue judgment
[AD-A142884] 21 p3459 N84-31941
Research on computer aided testing of pilot response to critical in-flight events
[NASA-CR-173871] 21 p3460 N84-31945
Guide to computer-based training
[DE84-012244] 21 p3466 N84-31975
Tutorial: Fuzzy sets and applications
[INPE-3168-PRE/538] 21 p3471 N84-31998
Activities in applied systems analysis 21 p3475 N84-32026
Determining cost and training effectiveness tradeoffs for trainer design: Test of an experimental model
[AD-P003455] 21 p3509 N84-32232
Equitable assignment rules
[AD-A142809] 21 p3515 N84-32268
Optional stopping performance under graphic and numeric CRT formatting
[AD-A143274] 22 p3586 N84-32712
Visual perception in systems management in aeronautics 22 p3632 N84-33017
Assessment of trends of input actions of inertial objects
[BLL-M-35689-(5828.4)] 22 p3644 N84-33104
Effective organizational solutions for implementation of DBMS software packages 22 p3671 N84-33268
An evaluation of two reliability and maintainability information systems
[AD-A143438] 22 p3674 N84-33290
An exploratory analysis of the relationship between media richness and managerial information processing
[AD-A143503] 22 p3674 N84-33293
Worst case performance of some heuristics for lot size problems
[INPE-3134-PRE/525] 23 p3817 N84-34205
A problem of determining the optimal policy for maintenance systems with reserve machines and a variable number of servers
[INPE-3197-TDL/173] 23 p3832 N84-34310
Hierarchical planning systems applied to production: A study
[INPE-3147-PRE/531] 23 p3833 N84-34314
The role of information technology in emergency management
[GPO-29-457] 23 p3834 N84-34319
Decision-making process in management automation 24 p3892 N84-34644
Decision rules applied to spread spectrum signal detection
[AD-A144253] 24 p3894 N84-34661
The ESA technological research programs 24 p3903 N84-34717
Estimating the number and duration of cognitive processes using the within-task subtractive method
[AD-A144617] 24 p3937 N84-34923
Ada (trademark) training curriculum. Software engineering methodologies M201 teacher's guide, volume 3
[AD-A144258] 24 p3946 N84-34986
Information systems: The challenge of the future for the Air Force Communications Command
[AD-A144277] 24 p3969 N84-35129
Reorganization and creation of Viking 24 p3991 N84-35253

DECISION THEORY
NT STATISTICAL DECISION THEORY
Decentralized control of scheduling in distributed processing systems
[AD-A131548] 02 p0301 N84-11976
Various solutions in multiple Bayesian's decision and multinormal estimation problems
[TR-78] 04 p0588 N84-13882
Model of the behavior of the human visual system for the perception of contour elements — image processing
[FUB-44-1982] 05 p0714 N84-14877
Distributed hypothesis formation in distributed sensor networks
[AD-A133849] 05 p0731 N84-14802
Markov decision processes with continuous time parameter
[MATH-CENTRE-TRACTS-164] 08 p1217 N84-17940
Preserving asymmetry by symmetric processes and distributed fair conflict resolution
[AD-A135458] 08 p1223 N84-17986
Report on an information trip to Holland, August - September 1983 — conference, decision making
[FOA-C-59006-H2] 10 p1592 N84-20431
Decision theory: Individual biases and their effect on forecasting in an organization
[AD-A137943] 11 p1746 N84-21395
A formulation and analysis of combat games
[NASA-TM-85927] 13 p1935 N84-22585
Problem analysis and definition in act generation
[AD-A137978] 13 p2022 N84-23111
A framework for the probabilistic analysis of hierarchial planning systems
[MC-BW-180/83] 13 p2037 N84-23216
DECISION TECHNOLOGY: The catalyst for acquisition improvement
[AD-P002755] 13 p2051 N84-23302
Research agenda in non-linear decision systems
[PB84-161207] 14 p2187 N84-24102
The Extended Multi-Attribute Decision Analysis Model (EMADAM)
[AD-A139510] 14 p2206 N84-24237
Vector optimization techniques
[AD-A139497] 14 p2219 N84-24317
A multivariate autoregressive display monitoring model
[NLR-MP-83033-U] 15 p2384 N84-25296
Interactive decision analysis and modelling
[CSIR-TWISK-294] 15 p2400 N84-25403
A problem in the optimal control of queueing workloads for the M/G/1 file
[INPE-3106-PRE/505] 16 p2546 N84-26339
Risk: The long and the short
[AD-A140580] 17 p2746 N84-27436
Training decision-makers to be creative: A management process model
[AD-P003347] 18 p2912 N84-28466
An optimization methodology for multi-criteria comparison using response surface methods and mathematical programming
[AD-A141169] 18 p2926 N84-28555
Microcomputer-based graphical linear programming package
[AD-A141094] 19 p3075 N84-29508
The duality between expected utility and penalty in stochastic linear programming
[AD-A141393] 19 p3075 N84-29513
Supervisory control: Introduction and theory — industrial plant control 20 p3263 N84-30706
Interaction of human cognitive models and computer-based models in supervisory control
[AD-A142677] 20 p3265 N84-30717
Study of total gamma spectra correlation for extending identification range over photopeak analysis
[AD-A144637] 24 p3962 N84-35090

DECKS (FLOORS)
U FLOORS

DECLINATION
The geomagnetic elements in Denmark 1928-1980
[ISBN-87-7478-219-3] 14 p2174 N84-24024

DECODERS
Switchable 10-bit PCM decoder
[AD-A130461] 01 p0070 N84-10459
Symbol synchronization for the TDRSS decoder
[NASA-CR-170603] 02 p0207 N84-11352
A systolic VLSI design of a pipeline Reed-Solomon decoder 10 p1474 N84-19631
A quaternary logic encoder-decoder circuit design using CMOS
[AD-P002351] 14 p2192 N84-24142
Some device count comparisons for reduced control stores using MOS (Metal-Oxide Semiconductor) circuits
[AD-P002361] 14 p2193 N84-24152
Performance analysis of the word synchronization properties of the outer code in a TDRSS decoder
[NASA-CR-173551] 15 p2319 N84-24921
Decoders for MST radars 17 p2692 N84-27146
Decoding: Codes and hardware implementation 17 p2694 N84-27160
Minimum-error trellis-path decoders for convolutional codes
[AD-A140811] 17 p2753 N84-27474

DECODING
Development of new integrated concepts for digital color video processing
[BMFT-FB-T-83-079] 02 p0210 N84-11375
White light signal processing with the application to spread spectrum communications
[AD-A132418] 04 p0520 N84-13417
Weighted decoding, by lattice, of linear block codes
[ENST-E-83008] 07 p1064 N84-16903
Investigation of encryptation for satellite communications
[FOA-C-30300-E1] 08 p1146 N84-17457
Fundamental issues of multiple accessing
[AD-A136878] 10 p1481 N84-19875
A study of error detection and correction codes
[AD-A139398] 14 p2156 N84-23917
Micropower CMOS implementation of three-valued logic functions
[AD-P002333] 14 p2190 N84-24124
Fast decoding of a d(min) = 6 RS code
[NASA-CR-173620] 16 p2544 N84-26326
An extended d(min) = 4 RS code
[NASA-CR-173619] 16 p2544 N84-26327
Decoding: Software implementations 17 p2694 N84-27161
Minimum-error trellis-path decoders for convolutional codes
[AD-A140811] 17 p2753 N84-27474
High speed low-cost ways to get messages from a sender to a receiver when some channels linking them become inoperative
[AD-A142831] 21 p3386 N84-31488
Performance simulation for unit-memory convolutional codes with byte-oriented Viterbi decoding algorithm 22 p3573 N84-32630
Error-trellis syndrome decoding techniques for convolutional codes 22 p3574 N84-32633

DECOMMISSIONING
Surplus Facilities Management Program. Post-remedial-action survey report for SNAP-8 Experimental Reactor Facility, building 010 site, Santa Susana Field Laboratories, Rockwell International, Ventura County, California
[DE84-009591] 21 p3497 N84-32165

DECOMMUTATORS
GSE for balloon-borne I.M.S.: Decommutator and D/A units
[AD-A131845] 03 p0377 N84-12452
Memory-based parallel data output controller
[NASA-CASE-GSC-12447-2] 18 p2916 N84-28491
Decommutation system
[INPE-3148-NTE/220] 23 p3730 N84-33639

DECOMPOSITION
NT CRACKING (CHEMICAL ENGINEERING)
NT HYDROGENOLYSIS
NT NITROLYSIS
NT PHOTODECOMPOSITION
NT PHOTODISSOCIATION
NT PHOTOLYSIS
NT PROPELLANT DECOMPOSITION
NT RADIOLYSIS
NT THERMAL DECOMPOSITION
A systolic architecture for singular value decomposition
[AD-A130098] 01 p0132 N84-10864
A nested-decomposition approach for solving staircase linear programs
[DE83-013560] 02 p0274 N84-11792
Theoretical and experimental studies of shock-compressed benzene and polybutene
[DE83-015884] 03 p0430 N84-12816
Matrix approach to testing mirrors, part 2
[DE83-011996] 04 p0558 N84-13676
Measured Hugoniot states of a 2-element fluid, O-2 + N sub 2 prime, near 2 Mg/m-3
[DE83-015910] 05 p0662 N84-14349
Least squares and domain decomposition methods applied to the numerical solution of nonlinear problems in fluid dynamics 06 p0839 N84-15466

Plant waste processing on a solid substrate for a biological life-support system for man
07 p1046 N84-16786
Hierarchical database decomposition: A technique for database concurrency control
[AD-A134356] 07 p1064 N84-17052
On acyclic database decompositions
[AD-A135105] 08 p1209 N84-17887
Eisenstein series on the metaplectic group: An algebraic approach
[MATH-CENTRE-TRACTS-161]
08 p1217 N84-17937
CARS studies of nitramine lova propellant combustion
[AD-A135813] 09 p1260 N84-18357
Investigation of the thermal initiation of detonation in nitromethane
[AD-A136211] 09 p1316 N84-18598
Studies of Electron-Beam-Induced decomposition of benzene
[AD-A137241] 10 p1454 N84-19498
Solid electrolyte degradation: Problems and solutions
[DE84-002916] 10 p1457 N84-19514
Quantum chemical investigations of the mechanism of cationic polymerization and theoretical prediction of crystal densities and decomposition pathways of energetic molecules
[AD-A137271] 10 p1465 N84-19571
Compositions for perfect graphs
[AD-A137611] 11 p1706 N84-21121
Generalization of the numerical Schwarz algorithm
[DE84-003735] 11 p1716 N84-21191
Analytic wave front and microlocal decomposition distributions 14 p2211 N84-24272
On the equidecomposability of a regular triangle and a square of equal areas
[AD-A139270] 14 p2213 N84-24290
Two methods for calculating the physical optics field
[AD-A139116] 14 p2224 N84-24347
GC and GC/MS (Gas Chromatography/Mass Spectrometry) analysis protocols
[AD-A141017] 18 p2811 N84-27843
A note on lossless database decompositions
[AD-A141488] 19 p3116 N84-29797
High resolution electron microscopy studies of the early stages of decomposition in alloys and ceramics
[DE84-020602] 20 p3163 N84-30067
Singular value decomposition with systolic arrays
[NASA-CR-172396] 20 p3279 N84-30817
High temperature X-ray decomposition studies of alpha phase nickel-silicon and beta phase copper-aluminum-nickel alloys 21 p3364 N84-31338
Porous catalytic metal plate degeneration bed in a gas generator
[AD-D011078] 21 p3373 N84-31407
Kinetics and mechanisms of thermolytic interconversions of boron hydrides
[AD-A143525] 22 p3547 N84-32455

DECOMPRESSION
U PRESSURE REDUCTION

DECOMPRESSION SICKNESS
Demonstration of gas bubbles in canine pulmonary artery and aorta by means of ultrasonic echography with intravenous air infusion 02 p0261 N84-11708
Decompression procedures for flying after diving, and diving at altitudes above sea level
[AD-A132039] 04 p0572 N84-13771
Proceedings of the 3rd Tripartite Conference on Submarine Medicine: France, United Kingdom and the United States
[AD-A133150] 06 p0889 N84-15777
Decompression mechanisms and decompression schedule calculations
[AD-A137868] 11 p1695 N84-21060
Verification of an altitude decompression sickness prevention protocol for Shuttle operations utilizing a 10.s psi pressure stage
[NASA-TM-58259] 18 p2899 N84-28392
Ultrasonography of canine soft tissues during decompression 20 p3254 N84-30653
Pulmonary artery location during microgravity activity: Potential impact for chest-mounted Doppler during space travel
[NASA-TM-58262] 21 p3457 N84-31935
Emergency handling of compressed air casualties
[AD-A143598] 23 p3810 N84-34157

DECONDITIONING
Biomedical Research Division significant accomplishments for FY 1983
[NASA-TM-85929] 10 p1545 N84-20128

DECONTAMINATION
NT SPACECRAFT STERILIZATION
Advanced cleaning by mass finishing
[DE84-004850] 10 p1472 N84-19612
Deep level impurities in germanium and silicon: Low temperature passivation or removal techniques
[DE84-006772] 13 p2048 N84-23286
Numerical simulation of the flow of a chemical contaminant subjected to a jet impingement
[AD-P002936] 14 p2196 N84-24176
Evaluation of the performance of filter separators with gasohol
[AD-A139645] 15 p2343 N84-25066
Polymers which are resistant to ionizing radiation for paints used in light water nuclear power stations
[BLL-RISLEY-TR-4907-(9091.9F)]
17 p2626 N84-26801
Contamination control and cleanliness level integrity for the Space Shuttle Orbiter PLB, payloads and facilities at KSC 24 p3865 N84-34498

DECOUPLING
Multiwavelength bidirectional coupler-decouplers
[AD-A132908] 05 p0747 N84-14907
Decoupled control analysis of a large flexible space antenna with linear quadratic regulator comparisons
[NASA-TP-2293] 14 p2115 N84-23675
A piloted simulator investigation of decoupling helicopters by using a model following control system
[AD-A139976] 15 p2264 N84-24598
Nulling in array patterns with orthogonal analytic cancellation beams
[AD-A142719] 20 p3178 N84-30188

DECREMENTING
U REDUCTION

DEEP DRAWING
Deep drawing of continuously cast and rolled zinc sheet
[BMFT-FB-T-83-214] 10 p1472 N84-19614

DEEP SCATTERING LAYERS
Properties of the deep scattering layer analyzed in terms of bioluminescent behavior of its components
[AD-A143849] 23 p3803 N84-34113

DEEP SPACE
NT INTERPLANETARY SPACE
NT INTERSTELLAR SPACE
JPL highlights, 1981
[NASA-CR-174535] 01 p0159 N84-11046
A computer model for evaluation of launch vehicle and target tracking error assignments for direct ascent, deep space ASAT (Anti-satellite) systems
[AD-A141136] 20 p3134 N84-29898

DEEP SPACE INSTRUMENTATION FACILITY
Energy consumption analysis of the Venus Deep Space Station (DSS-13) 04 p0519 N84-13413

DEEP SPACE NETWORK
Telecommunications and data acquisition systems support for Voyager missions to Jupiter and Saturn, 1972-1981, prelaunch through Saturn encounter
[NASA-CR-174571] 02 p0183 N84-11186
Orbit determination of highly elliptical Earth orbiters using VLBI and delta VLBI measurements
04 p0518 N84-13402
Intercontinental time and frequency transfer using a global positioning system timing receiver
04 p0519 N84-13411
Energy consumption analysis of the Venus Deep Space Station (DSS-13) 04 p0519 N84-13413
A study of the charged particle calibration requirements for the Deep Space Network 04 p0519 N84-13414
Design issues in the GCF Mark 4 development
04 p0520 N84-13415
ISPM mission operations 09 p1263 N84-18244
The Telecommunications and Data Acquisition Report
[NASA-CR-173263] 10 p1473 N84-19621
DSN microwave antenna holography
10 p1474 N84-19624
Loop gain and circuit parameters for residual carrier tracking in the advanced DSN block V receiver
10 p1474 N84-19625
Doppler system phase transfer functions for a system with an X-band uplink and X-band and S-band downlinks
10 p1474 N84-19627
Telemetry simulation assembly implementation in the DSN 10 p1475 N84-19633
Operator workload measurement validation for the MARK IV DSCC monitor and control subsystem
10 p1475 N84-19634
First results of GPS time transfer to Australia
10 p1475 N84-19635
Implementation of large antennas for deep space mission support 10 p1475 N84-19636
Publications of the Jet Propulsion Laboratory 1982
[NASA-CR-173539] 15 p2417 N84-25510
The telecommunications and data acquisition report
[NASA-CR-173565] 16 p2478 N84-25889
X-band uplink technology demonstration at DSS-13
16 p2479 N84-25893
Effects of NRZ-M modulation on convolutional codes performance 16 p2479 N84-25894
DSS 13 microprocessor antenna controller
16 p2479 N84-25897
Goldstone R/D high speed data acquisition system
16 p2480 N84-25899
Telecommunications and data acquisition support for the Pioneer Venus Project: Pioneers 12 and 13, prelaunch through March 1984
[NASA-CR-173893] 22 p3539 N84-32403
The Telecommunications and Data Acquisition Report
[NASA-CR-173885] 22 p3572 N84-32622
Magnetic refrigeration development
22 p3573 N84-32626
The 64-m antenna automatic subreflector focusing controller 22 p3573 N84-32628
Intermodulation product levels in flame-sprayed materials 22 p3573 N84-32629
Mojave base station implementation
22 p3575 N84-32643

DEFECTS
NT AUDITORY DEFECTS
NT CRYSTAL DEFECTS
NT CRYSTAL DISLOCATIONS
NT EDGE DISLOCATIONS
NT INCLUSIONS
NT POINT DEFECTS
NT SCREW DISLOCATIONS
NT SURFACE DEFECTS
NT VACANCIES (CRYSTAL DEFECTS)
Characterization, Analysis and Significance of Defects in Composite Materials
[AGARD-CP-355] 01 p0032 N84-10203
Monitoring of defect progression by acoustic emission
01 p0033 N84-10206
An empirical appraisal of defects in composites — helicopter tail rotor blades 01 p0034 N84-10211
Correction between nondestructive inspection results and performance of graphite/epoxy structural parts
01 p0034 N84-10212
The effect of damage on the tensile and compressive performance of carbon fibre laminates
01 p0034 N84-10213
Behavior of idealized discontinuities and impact damages in CFRP under fatigue loading
01 p0034 N84-10214
The significance of defects and damage in composite structures 01 p0035 N84-10219
In-service NDI of composite structures: An assessment of current requirements and capabilities
01 p0035 N84-10220
Effect of defects on aircraft composite structures
01 p0035 N84-10221
The engineering significance of defects in composite structures 01 p0035 N84-10222
Defect occurrences in the manufacture of large CFC structures and work associated with defects, damage and repair of CFC components 01 p0035 N84-10223
Probabilistic assessment of weld quality in steel piping under seismic conditions
[DE83-012053] 01 p0091 N84-10591
Scattering of waves by irregularities in periodic discrete lattic spaces. Part 2: Calculations
[AD-A130665] 01 p0140 N84-10917
Charge characteristics of ion-implanted and annealed nitride/oxide/Si structures
[DE83-012625] 01 p0153 N84-11009
Characterization of infrared optical properties of transparent materials
[AD-A131554] 02 p0294 N84-11930
Progress on ultrasonic flaw sizing in turbine-engine rotor components: Bore and web geometries
[DE83-018081] 03 p0333 N84-12167
Improving NDE (Non-destructive evaluation) capability through multiple inspection with application to gas turbine engine disks
[AD-A131762] 03 p0385 N84-12509
Elastic-wave inverse scattering in non-destructive evaluation
[DE83-017683] 03 p0386 N84-12513
Sizing defects using annular-array techniques with an automated ultrasonic data-acquisition system
[DE84-001644] 04 p0546 N84-13597
Penetrant and magnetic-particle inspection for material integrity
[DE83-017830] 04 p0546 N84-13600
Study of defects produced in tungsten by 800-MeV protons using field-ion microscopy
[DE84-001359] 04 p0613 N84-14048
Buckling analysis of end restrained imperfect tubular beam columns 05 p0691 N84-14539
Defect studies in semiconductors
05 p0752 N84-14931
Comparison of fracture-toughness measurements from ferritic-steel compact-tension and surface-flawed specimen
[DE84-000895] 06 p0804 N84-15240
Moment estimators of defect pattern frequencies, allowing for inspection error
[AD-A133487] 06 p0855 N84-15568

Ultrasonic test data acquisition and defect verification of stainless steel welds at 4000 deg F
[DE83-012146] 06 p0855 N84-15570
Investigations of the mechanical behavior of spot welded joints by means of acoustic emission analysis
[DE84-003041] 07 p1014 N84-16574
Correlation of yield stress changes in 316 stainless steel irradiated with high-energy and fission neutrons
[DE84-002115] 08 p1133 N84-17368
Material growth and characterization for solid state devices
[NASA-CR-173265] 10 p1587 N84-20401
Comparison of predicted versus experimentally-determined stresses for crack initiation of surface flaws in a 304 stainless steel and a ferritic steel
[DE84-005481] 11 p1634 N84-20680
A new application of proximity probe measurement on rolling element bearings
[AD-P002679] 11 p1658 N84-20816
Field test experience 12 p1836 N84-21984
Calculations of misfit dislocation and dangling bond densities in abrupt Hg sub (1-x) Cd sub x Te heterojunctions
[AD-A138241] 12 p1914 N84-22467
Radiation damage and defect behavior in ion-implanted, lithium counterdoped silicon solar cells
[NASA-TM-83646] 13 p1985 N84-22890
Fracture mechanics of subliminate cracks in composite laminates
[AD-A139357] 14 p2120 N84-23706
Application of NDE methods to green ceramics: Initial results
[DE84-006411] 14 p2130 N84-23769
Impurity and defect interactions in GaAs
[AD-A139592] 14 p2243 N84-24465
The impact resistance of SiC and other mechanical properties of SiC and Si3N4
[NASA-CR-165325] 15 p2301 N84-24809
Defects at electrode-oxide and electrode-silicon interfaces in VHSI device structures
[AD-A140814] 17 p2663 N84-26990
Nature of formation of stopper defect in hoisting ropes
[BLL-M-35544-(5828.4)] 17 p2674 N84-27036
Application of NDE methods to green ceramics: Initial results
[DE84-010571] 18 p2819 N84-27898
Defects and materials characterization by analysis of ultrasonic signals
[AD-A141180] 18 p2851 N84-28101
Presbycusis, sociocusis, and nosocusis
19 p3069 N84-29471
Flaw detection reliability criteria. Volume 1: Methods and results
[AD-A142001] 20 p3199 N84-30320
Dynamic overstresses in fibrous polymeric materials
[DE84-012605] 21 p3372 N84-31394
Impurity and defect characterization in epitaxial GaAs InP and the ternary and quaternary compound semiconductors
[AD-A143551] 22 p3664 N84-33225
Non-destructive evaluation techniques, high temperature ceramic component parts for gas turbines
[NASA-TM-77755] 23 p3694 N84-33413
USSR report: Materials science and metallurgy
[JPRS-UMS-84-006] 23 p3705 N84-33489
Portable electromagnetic flaw detector for metal products 23 p3706 N84-33493
C.A.T. scanner for detecting flaws in metals
23 p3706 N84-33494
Compound semiconductor characterization
[AD-A143601] 23 p3830 N84-34292

DEFENSE COMMUNICATIONS SATELLITE SYSTEM
DSCS 3: Acquisition and testing
14 p2139 N84-23822

DEFENSE COMMUNICATIONS SYSTEM (DCS)
ECM (Electronic Counter Measure) signal discrimination and identification techniques
[AD-A133427] 06 p0824 N84-15372

DEFENSE INDUSTRY
NT WEAPONS INDUSTRY
Proceedings of the Federal Acquisition Research Symposium with Theme: Government, Industry and Academe: Synergism for Acquisition Improvement
[AD-A137700] 13 p2049 N84-23293
Large firm efficiency, concentration, and profitability in defense markets
[AD-P002810] 13 p2059 N84-23356
Strengthening small business participation in Department of Defense extramural research and development
[AD-P002832] 13 p2063 N84-23377
Increasing the Contractor/Subcontractor/Vendor bidding lists
[AD-P002836] 13 p2063 N84-23381
The Department of Defense statement on the science and technology program by Dr. Edith W. Martin, Deputy Under Secretary of Defense for Research and Advanced Technology before the Subcommittee on Research and Development of the Committee on Armed Services of the United States House of Representatives, 98th Congress, second session
[AD-A139402] 14 p2246 N84-24488
Technical and scientific publication 1983: Research and development 16 p2561 N84-26430
Contract audit followup: Its impact on defense contracting
[AD-A140627] 17 p2770 N84-27587
Defense industry attitudes about AF interface standards report of an electronics industries association survey
[AD-P003570] 21 p3337 N84-31175

DEFENSE METEOROLOGICAL SATELLITE PROGRAM
U DMSP SATELLITES

DEFENSE PROGRAM
NT DMSP SATELLITES
The use and value of Defense Technical Information Center products and services
[AD-A130805] 01 p0161 N84-11061
Department of Defense computer technology. A report to Congress
[AD-A132899] 05 p0720 N84-14716
Defense Data Network System Test Facility (STF) recommendations
[AD-A134166] 07 p1084 N84-17048
Recommended test and evaluation and independent verification and validation actions for the Defense Data Network
[AD-A134167] 07 p1084 N84-17049
The national space program from the fifties into the eighties
[AD-A134799] 08 p1107 N84-17197
Implications of joint NASA/DOD participation in Space Shuttle operations
[PB84-122472] 08 p1120 N84-17286
Software Acquisition Resource Expenditure (SARE) data collection methodology
[AD-A137084] 10 p1564 N84-20247
CAD/CAM technology working group report IDA/OSD R/M (Institute for Defense Analyses/Office of the Secretary of Defense Research and Maintainability) study
[AD-A137761] 11 p1666 N84-20867
Report of findings and recommendations: Software Engineering Institute Study Panel
[AD-A138282] 12 p1882 N84-22267
Classification management. Journal of the National Classification Management Society, volume 18, 1982
[AD-A138480] 12 p1919 N84-22502
Report of the DOD-University forum working group on engineering and science education
[AD-A138205] 13 p2049 N84-23292
Closing the gap between R and D and application in academe to better support government and industry
[AD-P002761] 13 p2052 N84-23308
The leader of the Army acquisition workforce
[AD-P002762] 13 p2052 N84-23309
Competition: An integral part of the acquisition process
[AD-P002774] 13 p2054 N84-23321
Increasing spares competition in AFLC (Air Force Logistics Center)
[AD-P002775] 13 p2054 N84-23322
Multi-year procurement a 'Team approach'
[AD-P002780] 13 p2055 N84-23327
Managing for success in defense systems acquisition
[AD-P002789] 13 p2056 N84-23336
Impact of corporate resource allocation decisions on national security objectives: Disynergism in aerospace industrial resource planning
[AD-P002801] 13 p2058 N84-23347
Readiness planning in a peacetime environment
[AD-P002803] 13 p2058 N84-23349
Policy initiatives to achieve readiness and support objectives
[AD-P002804] 13 p2058 N84-23350
1982 US Army Materiel Development and Readiness Command (DARCOM) integrated logistic support (ILS) study finding on contracting for ILS
[AD-P002805] 13 p2058 N84-23351
New initiatives in international programs
[AD-P002813] 13 p2060 N84-23359
Rationalization, standardization and interoperability: Protecting US interests in the process
[AD-P002814] 13 p2060 N84-23360
Defense systems acquisition review process: A history and evaluation
[AD-P002822] 13 p2061 N84-23367
Distributed database performance modeling
[AD-P002157] 14 p2139 N84-23823
Workshop on Arms Control in Space
[LC-84-601064] 14 p2248 N84-24505
Astronautics and aeronautics, 1976. A chronology
[NASA-SP-4021] 15 p2431 N84-25602
Defense switched network technology and experiments program
[AD-A140609] 17 p2653 N84-26968
The introduction of uncertainty techniques to the productivity investment fund
[AD-A140864] 17 p2770 N84-27591
An analysis of Department of Defense financial and acquisition policies in support of military contingency requirements
[AD-A140820] 17 p2773 N84-27607
Justification of estimates for fiscal year 1985 submitted to Congress February 1984. Other procurement, Air Force
[AD-A140835] 17 p2773 N84-27608
Justification of estimates for fiscal year 1985 submitted to Congress February 1984. Missile procurement, Air Force
[AD-A140836] 17 p2773 N84-27609
Space station needs, attributes and architectural options. Volume 3, task 1: Mission requirements
[NASA-CR-173712] 18 p2806 N84-27811
An analysis of national aviation policy with respect to America's strategic airlift capability
[AD-A141308] 18 p2946 N84-28679
Izvestiya assails U.S. military space plans
19 p2978 N84-28677
U. S. ASAT program viewed as element of space militarization policy 19 p2978 N84-28678
Program Manager: The Journal of the Defense Systems Management College, volume 13, no. 2, March - April 1984
[AD-A141770] 19 p3114 N84-29789
Format requirements for scientific and technical reports prepared by or for the Department of Defense
[AD-A141758] 19 p3116 N84-29790
Evolution and flight history of the Defense Meteorological Satellite Program (DMSP) propulsion module 20 p3137 N84-29917
Strategic computing: New-generation computing technology: A strategic plan for its development and application to critical problems in defense
[AD-A141982] 20 p3266 N84-30721
Defense Technical Information Center referral data bank directory
[AD-A138400] 20 p3315 N84-31051
MIL-STD defense system software development
[AD-P003590] 21 p3341 N84-31195
DMA (Defense Mapping Agency) policy for digital MC and G (Mapping, Charting, and Geodesy) support of advanced systems
[AD-A142746] 21 p3430 N84-31765
Increased readiness through modularity
[AD-P003491] 21 p3514 N84-32257
Classification management. Journal of the national classification management society, volume 19, 1983
[AD-A143015] 21 p3518 N84-32286
Matrix management in DoD: An annotated bibliography
[AD-A143316] 22 p3669 N84-33253
Source hierarchy list. Volume 1: A through H
[AD-A143500] 22 p3674 N84-33291
Source hierarchy list. Volume 2: I through Z
[AD-A143501] 22 p3674 N84-33292
C3I (Command, Control, Communications and Intelligence) information systems internetwork study
[AD-A144271] 24 p3942 N84-34958

DEFLAGRATION
Vapor cloud explosion experiments
06 p0836 N84-15444
Analytical solutions for the flow field induced by a spherical flame expanding at constant velocity
06 p0836 N84-15445
Asymptotic condensed phase analysis of deflagrating monopropellants with subsurface exothermicity
13 p1948 N84-22656
Condensed phase temperature profiles in deflagrating HMX 13 p1947 N84-22657
A summary of the mechanisms of delayed detonation
13 p1947 N84-22658
Deuterium isotope effects in HMX thermochemical mechanisms: Decomposition, deflagration, and combustion 13 p1950 N84-22680
Modeling the self-deflagration of HMX
13 p1951 N84-22682
Are detonations steady?
[AD-P002975] 14 p2201 N84-24211
Nitramine propellant crack tip ignition and crack propagation of a burning sample under rapid pressurization
[AD-A141246] 18 p2811 N84-27848
Order of functioning
[AD-A141851] 19 p3001 N84-29022

Deflagration to shock to detonation transition of energetic propellants
[AD-A144489] 24 p3890 N84-34632

DEFLATING
U INFLATABLE STRUCTURES
U PRESSURE REDUCTION

DEFLECTION
Seismic behavior of steel bent-bracing system
[PB83-224840] 01 p0061 N84-10399
Assessment of means for determining deflection of the vertical
[AD-A131286] 01 p0100 N84-10651
Load deflection characteristics of inflated structures
[NASA-CR-174585] 03 p0311 N84-12028
Bending of transversally loaded orthotropic rectangular and sector plates 03 p0367 N84-12520
Buckling of turbulent jets 05 p0683 N84-14488
Relationship of Benkelman beam deflection as measured by Florida method to those measured by AASHTO method T-256-77, P-13-79
[PB83-252973] 05 p0694 N84-14557
Computational methods for ball bearings in spacecraft 09 p1295 N84-18466
Nonlinear vibrations of plates: A review 10 p1505 N84-19842
On recent progress in and utilization of astrogeodetic-inertial and astrogeodetic-gradiometric gravity vector determination
[AD-A136263] 10 p1526 N84-19993
A discrete-element analysis for large deflection of thin plates: A combined effect of geometric and material nonlinearities 13 p2003 N84-22995
Large deflection multimode response of clamped rectangular panels to acoustic excitation, volume 1
[AD-A139622] 15 p2350 N84-25107
Rotary balance data for a typical single-engine general aviation design for an angle-of-attack range of 20 to 90 deg. 3: Influence of control deflection on predicted model D spin modes
[NASA-CR-3248] 16 p2438 N84-25641
A triangulation technique for obtaining deflections of aircraft transparencies during bird impact testing
[AD-P003220] 17 p2595 N84-26633
NASTRAN analysis of nuclear effects on helicopter transparencies
[AD-P003234] 17 p2597 N84-26647
Theoretical evaluation of the structural performance of Swedish fighter aircraft windshields subjected to bird impact
[AD-P003235] 17 p2597 N84-26648
KC-135 wing and winglet flight pressure distributions, loads, and wing deflection results with some wind tunnel comparisons 18 p2787 N84-27688
Development of a multidetector deflection measurement system
[DE84-009703] 18 p2847 N84-28078
Fourier transform photoacoustic spectroscopy
[DE84-010216] 19 p2990 N84-28946
Elastic-plastic deformation of pulse-loaded structures
[AD-A142350] 20 p3202 N84-30339
Investigation of parameters influencing the deflection of a thick wall jet by a thin wall jet coflowing over a rounded corner
[AD-A142773] 21 p3325 N84-31099
Ion beamlet steering for two-grid electrostatic thrusters
[NASA-CR-174671] 21 p3354 N84-31274
Large deflections of circular isotropic membranes subjected to arbitrary axisymmetric loading
[NASA-TM-86271] 21 p3419 N84-31686
A linear aerodynamic analysis for unsteady transonic cascades
[NASA-CR-3833] 22 p3531 N84-32355
Direct measurement of Earth's vertical deflection using global positioning system
[AD-D011099] 22 p3534 N84-32373

DEFLECTORS
Investigation of a pneumatic thrust deflector based on circulation control technology
[AD-A128950] 11 p1652 N84-20784
Optimizing the thrust deflecting surface for the pneumatic thrust deflector
[AD-A140612] 17 p2609 N84-26703
Development of optomechanical deflectors for light beams and electronical-optical deflectors with subsequent generation of light to represent characters digitally or partially
[BMFT-FB-T-84-140] 23 p3826 N84-34264

DEFOCUSING
Self-defocusing and optical crosstalk in a bistable optical etalon 14 p2234 N84-24403
The 64-m antenna automatic subreflector focusing controller 22 p3573 N84-32628

DEFOLIATION
Investigation of forestry resources and other remote sensing data. 1: LANDSAT. 2: Remote sensing of volcanic emissions
[E84-10092] 10 p1522 N84-19963
Development of a data management front-end for use with a LANDSAT-based information system
[NASA-CR-175151] 11 p1749 N84-21418
The Pennsylvania defoliation application pilot test
[E84-10111] 13 p2004 N84-23004

DEFORESTATION
Land cover change monitoring within the east central Louisiana study site: A case for large area surveys with LANDSAT multispectral scanner data
[E84-10031] 02 p0238 N84-11562
Deforestation measured by LANDSAT: Steps toward a method
[DE83-016845] 04 p0554 N84-13652
Test of the use of LANDSAT imagery to detect changes in the area of forest in the tropics
[DE84-004444] 08 p1179 N84-17680

DEFORMATION
NT AXIAL STRAIN
NT ELASTIC BENDING
NT ELASTIC BUCKLING
NT ELASTIC DEFORMATION
NT PLASTIC DEFORMATION
NT STATIC DEFORMATION
NT TENSILE DEFORMATION
NT WAVE FRONT DEFORMATION
Investigation of microstructural changes in ferritic stainless steels caused by high-temperature deformation
[DE83-015331] 01 p0046 N84-10298
Evaluation of WES one-dimensional dynamic soil testing procedures
[AD-A130925] 01 p0057 N84-10371
Short-term mechanical properties of high-strength light-weight concrete 01 p0059 N84-10387
Study on small scale model tests for reinforced concrete structures- small scale model tests by using 3mm diameter deformed re-bars
[PB83-224832] 01 p0059 N84-10390
Time-dependent behavior of high-strength concrete sustained compressive stresses
[PB83-227041] 01 p0060 N84-10391
Seismic behavior of steel bent-bracing system
[PB83-224840] 01 p0061 N84-10399
Nonlinear stability control
[DE83-014341] 01 p0082 N84-10532
A method of solving ductility theory problems
[BLL-M-35125-(5828.4)] 01 p0093 N84-10607
Preliminary design of aircraft using structural optimization methods 02 p0172 N84-11133
Applied J-integral in HY130 tensile panels and implications for fitness for service assessment
[PB83-240598] 02 p0198 N84-11290
Video model deformation system for the National Transonic Facility
[NAS 1.15:85881] 02 p0222 N84-11457
MAZE: An input generator for DYNA2D and NIKE2D
[DE83-016415] 02 p0274 N84-11795
Computation of three-dimensional unsteady flow in rigid and deformable curved tubes 03 p0375 N84-12440
Vibration response of geometrically nonlinear elastic beams to pulse and impact loading
[NASA-CR-174495] 03 p0388 N84-12527
Endochronic theory of dynamic viscoplasticity
[DE83-017531] 03 p0390 N84-12546
Crustal deformation, the earthquake cycle, and models of viscoelastic flow in the asthenosphere
[NASA-TM-85117] 03 p0407 N84-12662
Lecture notes for contact-impact algorithms for large-deformation finite-element analysis
[DE83-013039] 03 p0426 N84-12789
Generalized plastic hinge concepts for 3D beam-column elements
[PB83-247961] 04 p0516 N84-13391
Modelling the behavior of materials
[DE84-000154] 04 p0545 N84-13588
Welding deformations and residual stresses due to circumferential welding of cylindrical shells and hemispherical end plates
[DRIC-T-6968] 04 p0547 N84-13602
Precision support of annular optics
[DE83-017473] 04 p0605 N84-13993
Gordon Conference on Physical Metallurgy (1983)
[AD-A134034] 05 p0653 N84-14295
Hydrogen embrittlement of titanium sheet under multiaxial deformation paths
[AD-A133846] 05 p0654 N84-14298
Continuously deforming finite element method for moving free surface heat transfer problems 05 p0683 N84-14489
Bending of beams, plates and laminates: Refined theories and comparative studies 05 p0691 N84-14540
Analysis of the nonlinear large deformation behavior of composite cylindrical shells
[AD-A133761] 05 p0693 N84-14549
Crazing and fatigue behaviour of one and two phase polymers 06 p0811 N84-15282
Welding deformations and residual stresses due to circumferential welding of cylindrical shells and hemispherical end plates
[BLL-DRIC-T-6968-(3623.66)] 06 p0851 N84-15549
Friction and morphology of magnetic tapes in sliding contact with nickel-zinc ferrite
[NASA-TP-2267] 07 p0977 N84-16334
Energy absorption by polymer crazing
[NASA-CR-173275] 07 p0978 N84-16335
Tidal effects in geodetic observations 07 p1030 N84-16676
Deformation 07 p1030 N84-16683
Large scale computations
[DE84-002763] 07 p1055 N84-16836
An accurate theory and simple fourth order governing equations for orthotropic and composite cylindrical shells
[AD-A134532] 07 p1062 N84-16886
Multi-transition stamping of components with thin body and tall stiffening ribs
[BLL-M-35384-(5828.4)] 08 p1140 N84-17415
Embedded gage impact study
[NASA-CR-172227] 08 p1161 N84-17558
Acoustic emission determination of deformation mechanisms leading to failure of naval alloys, volume 1
[AD-A135387] 08 p1171 N84-17626
Acoustic emission determination of deformation mechanisms leading to failure of naval alloys, volume 2
[AD-A135388] 08 p1171 N84-17627
Studies on age-hardening in spinodally modulated alloys: Experimental and theoretical
[DE84-004650] 09 p1285 N84-18390
Holographic FLI (Fringe Linearization Interferometry) for detection of defects
[AD-A135663] 09 p1318 N84-18612
The strength and behavior of steel fiber-reinforced concrete under combined tension-compression loading
[AD-A136124] 09 p1334 N84-18708
Influence of deformation behavior, oxydation, and temperature on the long time cyclic stress behavior of high temperature steels
[MPA-82-02] 09 p1334 N84-18710
X-ray topographic measurements of strain fields
[AD-A136310] 09 p1394 N84-19103
The Cauchy and Born hypotheses for crystals
[AD-A136374] 09 p1395 N84-19107
Deep drawing of continuously cast and rolled zinc sheet
[BMFT-FB-T-83-214] 10 p1472 N84-19614
The Shock and Vibration Digest, volume 15, no. 6
[AD-A131730] 10 p1505 N84-19841
TEM studies on the deformation structure of Cu-10Ni-6Sn spinodal alloy
[DE84-004426] 11 p1635 N84-20690
Correcting feed displacements in a space fed lens antenna
[AD-A137702] 11 p1643 N84-20743
Shearing deformation of simple materials 11 p1666 N84-20872
The Pikwitonei granulite domain: A lower crustal level along the Churchill-Superior boundary in central Manitoba 11 p1680 N84-20967
Microstructure of aluminum alloy in early stages of spalling 12 p1783 N84-21634
Fracture of aluminum in uniaxial and biaxial extension at 473-77 deg K 12 p1783 N84-21635
Strength of hard alloy elements of high pressure apparatus for synthesis of superhard materials 12 p1785 N84-21647
Interrelationship between temperature intervals of inverse martensite transformation and shape restoration in titanium nickelide-based alloys 12 p1786 N84-21648
Martensite transformation and shape memory in Ti0.5Ni0.5-xPd sub x system alloys 12 p1786 N84-21649
Diffusional anomalies in deformed metals
[BLL-M-35490-(5828.4)] 12 p1795 N84-21708
Cyclic deformation and fatigue of monocrystalline Ni-base superalloys
[AD-A138052] 12 p1797 N84-21724
Analysis of shear strain localization in thermal visco-plastic materials
[AD-A138186] 12 p1798 N84-21727
Modelling of deformation and fracture in high-temperature structural materials
[DE84-006452] 12 p1798 N84-21731
Finite deformation of viscoelastic disks
[DE84-002795] 12 p1827 N84-21908
Structural deformation: A comprehensive survey of modern measurement methods
[NLR-TR-82021-U] 12 p1827 N84-21909

Modes of deformation and failure of Kevlar 49 fibers and composites
[DE84-004162] 13 p1954 N84-22706
Biaxial orientation and mechanical properties of amorphous polymers 13 p1996 N84-22965
Large deformation behavior of long shallow cylindrical composite panels
[NASA-CR-173286] 13 p2000 N84-22975
Effects of transverse loading on the thickness shear resonance frequencies in crystal plates 13 p2003 N84-22994
Neotectonics of the north frontal fault system of the San Bernardino Mountains, southern California: Cajon Pass to Lucerne Valley 13 p2013 N84-23061
Impact of Upheaval Dome, Utah 13 p2078 N84-23465
Compressional features in the Tharsis Region of Mars: Geographic 13 p2090 N84-23538
Interpretation of planetary stress systems: Determination of tectonic over-printing in Northwest Wyoming 13 p2090 N84-23540
Effect of pressure on the mechanical properties of polymers, part 3
[DE84-006853] 14 p2130 N84-23770
Flow past a flexible membrane
[AD-P002938] 14 p2197 N84-24178
Stress distribution in a cylindrical bar subjected to cyclic torsional loading
[AD-P002957] 14 p2199 N84-24197
Finite element analysis of fabrics with nonlinear stress-strain laws
[AD-P002977] 14 p2202 N84-24213
Nonlinear analysis of rectangular glass plates by Galerkin method
[PB84-159649] 15 p2302 N84-24819
Studies of elastic-plastic response under high pressure shock loading 15 p2316 N84-24900
Pattern deformation of scalar antenna arrays due to near field backscatter
[LFD-210] 15 p2318 N84-24913
Reanalysis of mechanical structures 15 p2349 N84-25099
Investigation of ice dynamics in the marginal zone
[AD-A138558] 15 p2374 N84-25243
Creep deformation measurement of polymer strips after buckling by Moire method
[NAL-TR-789] 16 p2501 N84-26055
Lower mantle heterogeneity, dynamic topography and the geoid
[NASA-CR-173621] 16 p2521 N84-26184
Failure times and optimal stopping rules of generalized shock models 16 p2552 N84-26372
Initiation and propagation of shear bands in antiplane shear deformation
[AD-A140741] 17 p2624 N84-26794
Deformation and fracture studies of polymers in the scanning electron microscope 17 p2626 N84-26802
Passage of waves in fluids through damping interlayers and their interaction with barrier 17 p2647 N84-26934
The simulation of deformable mechanical systems using vector processors 17 p2675 N84-27045
Investigation of ice dynamics in the marginal ice zone
[AD-A138558] 17 p2737 N84-27387
Deformation and fracture maps for polymer-foams, solid polymers and polymer-composites
[AD-A141197] 18 p2818 N84-27893
Finite element thermal-structural analysis of cable-stiffened space structues
[NASA-CR-173709] 18 p2852 N84-28108
Consistent hydrodynamic mass for parallel prismatic beams in a fluid-filled container
[DE84-010381] 18 p2853 N84-28116
Gravity field response to elastic deformations of Earth 18 p2862 N84-28172
Some specifics of influence of pore pressure on physical properties of deformable rocks 18 p2864 N84-28180
Matrix-dominated time-dependent deformation and damage of graphite epoxy composite -- experimental data under multiple-step relaxation
[AD-A141697] 19 p2986 N84-28920
Methods of analyzing processes of plastic working of metal, part 1 19 p2990 N84-28948
Shaft-hub deformation analysis by means of holography
[SCHR-KONSTR.TECH-5] 19 p3028 N84-29204
Variation in coefficient accounting for influence of external zones with variation in contact friction conditions — metal working
[BLL-M-35596-(5828.4)] 19 p3031 N84-29222
Effects of bond deterioration on hysteretic behavior of reinforced concrete joints
[PB84-192020] 20 p3203 N84-30343
Local bond stress-slip relationships of deformed bars under generalized excitations: Experimental results and analytical model
[PB84-192848] 20 p3204 N84-30355
Geodynamics of crustal deformation and seismotectonic block movements in central Europe 20 p3220 N84-30460
Computational method for thermoviscoelasticity with application to rock mechanics
[DE84-003087] 20 p3242 N84-30585
USSR report: Physics and mathematics
[JPRS-UPM-84-001] 20 p3285 N84-30662
Dynamics of plasma corona on spherical targets irradiated by laser 20 p3288 N84-30678
Viscoelastic and aging characteristics of polymers
[DE84-012689] 21 p3371 N84-31393
Numerical solution of viscoplastic flow problems by augmented lagrangians
[AD-A142793] 21 p3400 N84-31566
Role of texture and structural damage in plane strain deformation processing 21 p3416 N84-31664
Inelastic and dynamic fracture and stress analyses 21 p3421 N84-31697
Creep-fatigue interactions in advanced eutectic superalloys
[AD-A142872] 21 p3422 N84-31705
Effect of inertia on finite near-tip deformation for fast Mode-3 crack growth
[AD-A142947] 21 p3422 N84-31706
Textile ballistic performance (data base)
[AD-A143249] 22 p3560 N84-32541
The 64-m antenna automatic subreflector focusing controller 22 p3573 N84-32628
Diagenesis and deformation of the Madison Group, Colorado and Utah overthrust belt 22 p3620 N84-32936
Deformation of fiber-reinforced laminated composite near free surface 23 p3706 N84-33497
Deformability and bearing strength of shells made on release mandrel 23 p3707 N84-33498
Review of the strength of brittle rock materials 23 p3722 N84-33586
Some aspects of the deformation and brittle destruction of elastooptic materials 23 p3722 N84-33587
Broken-formations of the Pulaski thrust sheet near Pulaski, Virginia 23 p3794 N84-34061
Deformation of the subsurface silurian and devonian rocks of the southern tier of New York State 23 p3795 N84-34067
Mixed models and recugion techniques for large-rotation, nonlinear analysis of shells of revolution with application to tires
[NASA-TP-2343] 24 p3912 N84-34773

DEFROSTING
Comparative study of heat pump regulation systems. The problem of defrosting evaporators
[CETIM-100250] 21 p3403 N84-31589

DEGASSING
NT DEOXYGENATION
Vacuum outgassing of various materials
[DE84-004812] 11 p1626 N84-20644
Hydrogen fatigue test — plated bolts
[CETIM-12-F-400] 21 p3369 N84-31373
Improved materials characterization for spacecraft applications 24 p3865 N84-34494
Preparation and cleanliness verifications of a space simulation chamber for contamination sensitive test specimens 24 p3865 N84-34495
Hubble space telescope component qualification utilizing a residual gas analyzer 24 p3865 N84-34497

DEGENERATION
Weighted inequalities and degenerate elliptic partial differential equations
[AD-A142895] 21 p3472 N84-32007

DEGENERATIVE FEEDBACK
U NEGATIVE FEEDBACK

DEGRADATION
NT BIODEGRADATION
NT THERMAL DEGRADATION
NT WAVE DEGRADATION
Thermal oxidative degradation reactions of perfluoroalkiethers
[NASA-CR-168224] 02 p0189 N84-11229
Reliability analysis of the gradual degradation of semiconductor devices
[AD-A131375] 02 p0213 N84-11395
Radiolysis of resist polymers. 1: Poly(methyl-alpha-haloacrylates) and copolymers with methylmethacrylate
[AD-A131864] 03 p0356 N84-12315
Physical fitness as a moderator of cognitive degradation during sleep deprivation
[AD-A131962] 03 p0415 N84-12718
Fiber composite materials research in the UK: Assessment report
[AD-A132386] 04 p0492 N84-13226
Grain boundary segregation and environmental degradation of a ferritic stainless steel
[DE83-016927] 04 p0502 N84-13289
Storage of synthetic turbine lubricants under adverse conditions
[AD-A132226] 04 p0506 N84-13319
Middle distillate fuel stability characteristics: A review
[AD-A132156] 04 p0509 N84-13337
Matrix approach to testing mirrors, part 2
[DE83-011996] 04 p0556 N84-13678
Results of an experimental program investigating the effects of simulated ice on the performance of the NACA 63A415 airfoil with flap
[NASA-CR-168286] 07 p0947 N84-16145
Antimisting fuel breakup and flammability
[NASA-CR-174508] 07 p0961 N84-16354
Suboptimal LQ control problem using reconstructed state feedback control law 07 p0962 N84-16364
Application of image processing technology to problems in manuscript encapsulation — Codex Hammer
[NASA-CR-173200] 07 p1007 N84-16528
Laboratory degradation of Kapton in a low energy oxygen ion beam
[NASA-TM-83530] 09 p1272 N84-18310
Degradation of evaporated aluminum films for solar reflections
[DE84-005341] 10 p1530 N84-20021
Viscometric changes of engine oils
[REPT-12] 12 p1800 N84-21738
Millimeter wave metal-insulator-metal detector/mixer diode
[AD-A138391] 12 p1812 N84-21815
Accelerated degradation of silicon metallization systems 12 p1838 N84-21983
Exhaust plume induced fluctuations in the index of refraction at optical wavelengths 13 p1941 N84-22624
Cathode degradation and erosion in high pressure arc discharges
[NASA-TM-83638] 13 p1942 N84-22631
Hydrolytic degradation of Kevlar 49 fibers
[DE84-004158] 13 p1954 N84-22705
Hydrolytic degradation of kapton film
[AD-A139016] 13 p1964 N84-22782
Balloon materials degradation (S1006) 15 p2273 N84-24646
Thermal control surface experiment (S0069) 15 p2273 N84-24649
Ion-beam-textured and coated surfaces experiment (S1003) 15 p2273 N84-24650
Investigation of critical surface degradation effects on coatings and solar cells developed in Germany (S1002) 15 p2275 N84-24656
Thin metal film and multilayers experiment (A0138-3) 15 p2278 N84-24660
The influence of Al2O3 and surface scales on alloy degradation at elevated temperatures
[DE84-007299] 15 p2298 N84-24794
Statistical fatigue and residual strength degradation model for glass polyester laminates 15 p2309 N84-24857
Degradation of the bird impact resistance of polycarbonate
[AD-P003193] 17 p2591 N84-26606
Interply layer degradation effects on composite structural response
[NASA-TM-83702] 17 p2618 N84-26756
Evaluation of UH-1H hover performance degradation caused by rotor icing
[AD-A141252] 18 p2793 N84-27727
Intrinsic mechanisms of multi-layer ceramic capacitor failure
[AD-A141050] 18 p2834 N84-27968
Physico-chemical studies on copper sulfide. The CdS-Cu2S solar cell
[BMFT-FB-T-84-065] 19 p2990 N84-28947
Solar cell degradation in proton radiation orbits 19 p3045 N84-29315
Model of solar cell proton damage 19 p3045 N84-29316
Piecewise simulaton proton test of gallium arsenide and thin silicon solar cells 19 p3045 N84-29317
Radiation tolerance of low resistivity, high voltage silicon solar cells 19 p3045 N84-29318
A study of methods for alleviation of flow decay risk to the Galileo spacecraft 20 p3137 N84-29919
Purification of nitrogen tetroxide for long-term reliability 20 p3137 N84-29920
Effects of water-vapor on friction and deformation of polymeric magnetic media in contact with a ceramic oxide
[NASA-TM-83727] 20 p3161 N84-30072

Electrolytic degradation of lithia-stabilized polycrystalline beta-alumina
[DE84-008668] 20 p3311 N84-31027
Physical techniques for profiling heterogeneous polymer degradation
[DE84-013807] 22 p3560 N84-32547
Forecasting of high voltage insulation performance: Testing of recommended potting materials and of capacitors
[NASA-TM-86536] 22 p3581 N84-32681
Aggradation and degradation at alluvial-channel beds
[PB84-201557] 22 p3615 N84-32905
Photovoltaic module encapsulation design and materials section, volume 2
[NASA-CR-173902] 23 p3786 N84-34013
A study of long aerosol initiated laser induced air breakdown plasmas
[AD-A143967] 23 p3828 N84-34279
The energy dependence and surface morphology of Kapton (trademark) degradation under atomic oxygen bombardment 24 p3863 N84-34484
Method and apparatus for determination of lubricant stability
[AD-D011193] 24 p3887 N84-34615
Navy mobility fuels evaluation
[AD-A144171] 24 p3890 N84-34630
An experimental approach to evaluating environmental degradation mechanisms in bisphenol-A polycarbonate films on metallic substrates
[SERI/TR-255-1602] 24 p3917 N84-34798

DEGREES OF FREEDOM

A dynamic model for aircraft poststall departure 01 p0012 N84-10077
The influence of aeroelastic stability requirements on helicopter design 02 p0171 N84-11127
The phenomenology of deep-inelastic processes
[DE83-016622] 02 p0292 N84-11913
Nulling with limited degrees of freedom
[AD-A132276] 04 p0521 N84-13424
An experimental study of multi-link models of human postural dynamics and control 04 p0572 N84-13769
Bank-to-Turn cruise missile terminal guidance and control law comparison
[AD-A132595] 05 p0629 N84-14136
Digital multishaker modal testing
[NASA-CR-170951] 06 p0847 N84-15522
A study of washout filters for a simulator motion base
[UTIAS-TN-246] 07 p0959 N84-16218
Design criteria and eigensequence plots for satellite computed tomography
[NASA-CR-172787] 09 p1267 N84-18276
Procedures for static and constant-rate tests on a Single-Degree-of-Freedom (SDF) strapdown gyroscope
[AD-A136632] 09 p1318 N84-18609
The Shock and Vibration Bulletin. Part 2: Fluid-structure dynamics and dynamic analysis
[AD-A134453] 10 p1510 N84-19881
On the modal identification of multiple degree of freedom systems from experimental data
10 p1511 N84-19887
Methods for describing the coexistence of competing degrees of freedom in a many body system
[CSIR-TWISK-296] 11 p1712 N84-21159
Recent developments and future directions in dynamic stability research at NAE, Ottawa
14 p2097 N84-23582
Effect of aerodynamic and angle-of-attack uncertainties on the blended entry flight control system of the Space Shuttle from Mach 10 to 2.5
[NASA-TP-2283] 14 p2110 N84-23652
A mathematical model of the UH-60 helicopter
[NASA-TM-85890] 14 p2110 N84-23653
Critically damped dynamic systems
15 p2313 N84-24879
A three-degree-of-freedom flight simulator for spin-stabilized projectiles
[AD-A140657] 17 p2610 N84-26709
A new 48 D.O.F. quadrilateral shell element with variable-order polynomial and rational B-spline geometries with rigid body modes 17 p2678 N84-27058
Tension waves in tethered satellite cables
[NASA-TM-85799] 18 p2807 N84-27820
The design of manually operated controls for a six-degree-of-freedom groundborne walking vehicle: Control strategies and stereotypes
[AD-P003273] 18 p2907 N84-28438
A model of rotor blade first natural flapping response for up to three/rev excitations
[AD-A141725] 19 p2963 N84-28782
The transfer of atoms, ions and molecular groups in solution. Part 1: Models and limits
[AD-A142333] 20 p3147 N84-29981
The response of nonlinear structures to random excitation 21 p3418 N84-31678
A mathematical simulation model of the CH-47B helicopter, volume 2
[NASA-TM-84351] 22 p3535 N84-32380
Distribution results for positive definite quadratic forms with repeated roots
[AD-A143450] 22 p3645 N84-33115
Fault-tolerant system considerations for a redundant strapdown inertial measurement unit
[NASA-CR-172426] 23 p3892 N84-33396

DEHUMIDIFICATION

Oak Ridge heat-pump models. Part 1. A steady-state computer design model for air-to-air heat pumps
[DE84-001577] 04 p0535 N84-13519
Frigair 1983. Papers
[CSIR-S-281] 11 p1639 N84-20717
An assessment of dehumidifier geometries for desiccant cooling systems
[DE83-011991] 16 p2512 N84-26123
Energy and peak power saved by passively cooled residences 16 p2513 N84-26130

DEHYDRATED FOOD

A method for producing nutritionally dense freeze dried food bars
[AD-D011052] 23 p3811 N84-34166

DEHYDRATION

Preparation of anhydrous hydrazine
[INPE-2606-PRE/366] 02 p0203 N84-11320
Aerobic fitness and the hypohydration response to exercise-heat stress
[AD-A132263] 05 p0713 N84-14669
The effects of dehydration on peripheral cooling
[AD-A130838] 06 p0887 N84-15767
A questionnaire assessment of estimated radiation effects upon military task performance
[AD-P003254] 18 p2905 N84-28421
Age-related responses to de- and hyperhydration
21 p3452 N84-31905

DEHYDROGENATION

Biochemical and histochemical adaptations of skeletal muscle to rat suspension 09 p1354 N84-18849

DEICERS

JUH-1H pneumatic boot deicing system flight test evaluation
[AD-A140986] 18 p2793 N84-27725
Piezoelectric deicing device
[NASA-CASE-LEW-13773-2] 22 p3597 N84-32782
Atmospheric icing on sea structures
[AD-A144448] 24 p3934 N84-34903

DEICING

Numerical simulation of two-dimensional heat transfer in composite bodies with application to de-icing of aircraft components
[NASA-CR-168263] 04 p0531 N84-13490
Experimental study of fluid deicing system in the NASA Icing Research Tunnel
[NASA-TM-77097] 07 p0960 N84-16220
Aerospatiale's experience on helicopter flight in icing conditions
[SNIAS-832-210-107] 16 p2448 N84-25707

DEICING SYSTEMS

U DEICERS

DEKATRONS

U COUNTERS

DELAMINATING

Growth of delaminations under fatigue loading
01 p0033 N84-10208
Experimental investigation of delaminations in carbon fibre composite 01 p0033 N84-10209
The significance of defects and damage in composite structures 01 p0035 N84-10219
Delamination growth in composite structures under inplane compression loading 01 p0036 N84-10224
An X-ray radiography study of delamination growth in notched carbon/epoxy laminates
[FFA-TN-1983-29] 03 p0386 N84-12516
The mechanics of delamination in fiber-reinforced composite materials. Part 1: Stress singularities and solution structure
[NASA-CR-172269] 04 p0491 N84-13221
The mechanics of delamination in fiber-reinforced composite materials. Part 2: Delamination behavior and fracture mechanics parameters
[NASA-CR-172270] 04 p0491 N84-13222
Analysis of local delaminations and their influence on composite laminate behavior
[NASA-TM-85728] 06 p0798 N84-15199
Buckling of a sublaminate in a quasi-isotropic composite laminate
[NASA-TM-85755] 09 p1275 N84-18325
Concepts for improving the damage tolerance of composite compression panels — aircraft structures
[NASA-TM-85748] 09 p1329 N84-18678
Fluctuations in chemical composition of titanium alloy Beta-solid solution in preseparation stage
12 p1786 N84-21650
Moisture and temperature effects on the mixed-mode delamination fracture of unidirectional graphite/epoxy
[DREP-TM-83-22] 12 p1789 N84-21685
The peel strength of aramid aluminum laminate (ARALL)
[VTH-LR-397] 12 p1790 N84-21673
Hygrothermal influence on delamination behavior of graphite/epoxy laminates
[NASA-TM-85935] 12 p1826 N84-21904
Shear-lag analysis of notched laminates with interlaminar debonding
[NASA-CR-3798] 14 p2119 N84-23697
Delamination growth in notched graphite/epoxy laminates under compression fatigue loading
[FFA-TN-1983-57] 15 p2284 N84-24713
Effect of stress singularities on the delamination of laminated composites 15 p2310 N84-24858
Predicting the delamination of a multistage composite
[SNIAS-832-111-102] 16 p2461 N84-25771
Experimental investigation of delaminations in carbon fiber composite
[MBB-FE-214/S/PUB/107] 16 p2562 N84-26434
Service-life induced failure of bird impact resistant windshields
[AD-P003195] 17 p2591 N84-26608
Interply layer degradation effects on composite structural response
[NASA-TM-83702] 17 p2618 N84-26756
Delamination growth analysis in quasi-isotropic laminates under loads simulating low-velocity impact
[NASA-TM-85819] 18 p2809 N84-27833
Interlaminar fracture of composites
[NASA-TM-85768] 18 p2809 N84-27835
A 3-dimensional finite element analysis of delamination growth in composite laminates. Part 1: The energy methods and case-study problems
[AD-A141248] 18 p2810 N84-27838
Composite structure repair
[AD-A141456] 21 p3358 N84-31300
Analysis of instability-related growth of a through-width delamination
[NASA-TM-86301] 23 p3711 N84-33524

DELAWARE

Aboveground biomass estimation in a tidal brackish marsh using simulated Thematic Mapper spectral data
20 p3214 N84-30419

DELAWARE BAY (US)

Water resources data for New Jersey, water year 1982. Volume 2: Delaware River Basin and tributaries to Delaware Bay
[PB84-119734] 09 p1338 N84-18737
Evaluation of spatial, radiometric and spectral Thematic Mapper performance for coastal studies
[E84-10083] 10 p1522 N84-19964

DELAWARE RIVER BASIN (US)

Water resources data for New Jersey, water year 1982. Volume 2: Delaware River Basin and tributaries to Delaware Bay
[PB84-119734] 09 p1338 N84-18737

DELAY

Analysis of a delayed delta modulator
[AD-A131208] 02 p0282 N84-11845
Optimal delay estimation in a multiple sensor array having spatially correlated noise
[AD-A133810] 05 p0734 N84-14820
Stability in linear multistep methods for pure delay equations
[MC-NW-152/83] 07 p1065 N84-16913
Nonlinear prediction of head movements for helmet-mounted displays
[AD-A136590] 10 p1555 N84-20192
Effect of data latency upon missile accuracy
[AD-A138048] 12 p1778 N84-21600
Observation model and parameter partials for the JPL VLBI parameter estimation software MASTERFIT-V1.0
[NASA-CR-173455] 12 p1879 N84-22245
A summary of the mechanisms of delayed detonation
13 p1947 N84-22658
Multi-sensor array time-delay estimation with small phase incoherences
[AD-A138667] 13 p2033 N84-23183
Evaluation of strategies to enhance departure sequencing
[AD-A140710] 17 p2605 N84-26689
Delayed feedback optimal controller
17 p2756 N84-27498
Global bifurcation of a logistic delay map
[CWI-AM-R8402] 19 p3092 N84-29634
Decentralized estimation in communication networks with delay
[AD-A142376] 20 p3174 N84-30155

DELAY CIRCUITS

Transmission lines for pulsed power applications
[DE84-002754] 05 p0676 N84-14446

Time delay estimation using the adaptive delay element
[DE84-002042] 06 p0830 N84-15403
A microstrip time delay circuit on barium tetratitanate
[AD-A138026] 12 p1811 N84-21807
Completeness for uniformly delayed circuits
[AD-P002325] 14 p2189 N84-24116
Electronic cancelling of acoustic traveling waves
[AD-D011153] 23 p3735 N84-33667

DELAY LINES
Optical analog repeater development for a one GHz bandwidth recirculating delay line
[AD-A133658] 05 p0675 N84-14437
Three dimensional, orthogonal delay line bootlace lens antenna
[AD-D011020] 19 p3018 N84-29131
Acousto-Optic Adaptive Processing (AOAP)
[AD-A141445] 19 p3100 N84-29689
Propagation loss in electrostatically variable SAW delay lines
[AD-A142433] 20 p3178 N84-30183
Digital multi-tapped delay line with automatic time-domain programming
[AD-D011136] 22 p3581 N84-32676
Electronic cancelling of acoustic traveling waves
[AD-D011153] 23 p3735 N84-33667
Temperature compensation of surface transverse waves for stable oscillator applications
[AD-A144245] 24 p3894 N84-34660
Photothermal analysis of thin films
[AD-A144472] 24 p3967 N84-35120

DELINEATION
Cavity detection and delineation research. Part 2. Seismic methodology: Medford Cave Site, Florida
[AD-A131322] 02 p0249 N84-11627
Delineation of wetland boundaries using vegetation within the Altamaha River Basin of Georgia
[AD-A142590] 20 p3228 N84-30515

DELIVERY
NT PAYLOAD DELIVERY (STS)
NT WEAPONS DELIVERY
High-speed, low-altitude payload delivery using a single large ribbon parachute
[DE84-002731] 06 p0783 N84-15128

DELMARVA PENINSULA (DE-MD-VA)
L band push broom microwave radiometer: Soil moisture verification and time series experiment Delmarva Peninsula
[E84-10084] 10 p1520 N84-19955

DELPHI METHOD (FORECASTING)
The role of the state library agency in the future: A Delphi study 22 p3669 N84-33258

DELTA DART AIRCRAFT
U F-106 AIRCRAFT

DELTA MODULATION
Analysis of a delayed delta modulator
[AD-A131208] 02 p0282 N84-11845
Low rate transmission of video signals using adaptive delta modulation
[AD-A133145] 06 p0823 N84-15363
Synthetic voice: Power system enunciation speech synthesis system
[PB84-151646] 14 p2141 N84-23838
Results of investigation of adaptive speech codes 21 p3376 N84-31428

DELTA WINGS
Experimental measurements of wake characteristics of low aspect-ratio delta and flapped-plate planforms
[AD-A130398] 01 p0004 N84-10026
A generalized solution technique for the parabolized Navier-Stokes equations 02 p0173 N84-11137
An experimental investigation of the vortex flow over delta and double-delta wings at low speed 03 p0322 N84-12106
Laser velocimetry study of compressibility effects on the flow field of a delta wing 03 p0322 N84-12108
On the generation of vortical flow at hypersonic speeds over elliptical cones 03 p0323 N84-12114
Vortex flow simulations past wings using the Euler-equations 03 p0324 N84-12118
Vortex flap flow reattachment line and subsonic longitudinal aerodynamic data on 50 deg to 74 deg Delta wings on common fuselage
[NASA-TM-84618] 04 p0480 N84-13160
Wind energy concentration within vortex flow fields and its utilization for the generation of energy, phase 1
[BMFT-FB-T-83-157] 05 p0700 N84-14591
Delta wings with shock-free cross flow
[NASA-CR-172297] 10 p1419 N84-19282
An analytical design procedure for the determination of effective leading edge extensions on thick delta wings
[NASA-CR-172351] 10 p1419 N84-19284
Visualisation of the vortex dominated flow around a delta wing-body combination using a water tunnel
[BAE-821/RES/6631] 13 p1988 N84-22904
An investigation of aerodynamic characteristics of wings having vortex flow using different numerical codes
[NASA-CR-173596] 16 p2438 N84-25639
Calculation of aerodynamic characteristics of wings with thickness and camber by a new method based on the modified vortex lattice method
[TAE-493] 16 p2438 N84-25640
Hypersonic static and dynamic stability. Part 2: Inviscid prediction methods for unsteady hypersonic flow 16 p2442 N84-25664
Method of calculating strong viscous interaction at delta wing 17 p2644 N84-26918
Separation flow at concave conical wings 17 p2647 N84-26933
Surface disturbances due to trailing vortices
[AD-A142693] 20 p3184 N84-30233

DELTAS
NT MISSISSIPPI DELTA (LA)
Observations of surface water temperature and salinity in the Eastern part of the East Scheldt from 1921 until present
[KNMI-TR-40(FM)] 10 p1526 N84-19999
Observations of surface water temperature and salinity in the East Scheldt during the period 1894-1982
[KNMI-WR-83-12(FM)] 10 p1540 N84-20094

DEMAGNETIZATION
Biasing and fast degaussing circuit for magnetic materials
[DE84-011281] 20 p3285 N84-30857

DEMAND (ECONOMICS)
Successes, shortcomings in using production wastes as raw material 01 p0054 N84-10352
Short-term energy outlook. Volume 2. Methodology
[DE83-016853] 03 p0405 N84-12648
Trends of jet fuel demand and properties 14 p2106 N84-23631
The effect of property changes on jet fuel producibility and cost 14 p2106 N84-23632
Lead 19 p2992 N84-28959
Fluorspar 19 p3053 N84-29375

DEMINERALIZING
NT BONE DEMINERALIZATION
Research opportunities in bone demineralization, phase 3 11 p1693 N84-21046

DEMODULATION
Bit weighting and soft decision demodulation for image compression & error control
[AD-A134187] 07 p1054 N84-16825
Investigation of design considerations for a complex demodulation filter
[NASA-CR-173295] 08 p1107 N84-17195
Performance assessment of Serial Minimum Shift Keying (SMSK) modulation technique. Volume 1: Executive summary
[ESA-CR(P)-1840-VOL-1] 12 p1809 N84-21796
Performance assessment of Serial Minimum Shift Keying (SMSK) modulation technique, volume 2
[ESA-CR(P)-1840-VOL-2] 12 p1809 N84-21797
Navigation system and method
[NASA-CASE-GSC-12508-1] 13 p1929 N84-22546
Coherent digital demodulation of a residual carrier signal using IF sampling 22 p3574 N84-32634
Complex demodulation: A technique for assessing periodic components in sequentially sampled data
[AD-P003845] 24 p3939 N84-34933

DEMODULATORS
NT MODEMS
NT PHASE DEMODULATORS
Generalized list detection for coded MFSK/FH signaling on ading and jamming channels
[AD-A130199] 01 p0063 N84-10414
UCLA demodulation engine
[AD-A135912] 09 p1309 N84-18556
Equipment for measuring the distance of satellite in low orbit
[INPE-3126-PRE/517] 16 p2455 N84-25739
Demodulator and accumulator for the high-speed data acquisition system 16 p2480 N84-25900

DEMOGRAPHY
Develop a normative or descriptive model of the international/domestic civil aviation industry, volume 2
[AD-A131877] 03 p0314 N84-12052
Deterministic models in mathematical demography: An investigation of stable population theory including an analysis of the population statistics of Denmark 03 p0428 N84-12806
Analysis of tutored videotape instructional delivery system
[AD-A133441] 07 p1050 N84-16800
Estimation of small area populatons using remote sensing and other approaches
[DE84-003404] 08 p1178 N84-17678

DEMONSTRATION
U PROVING

DEMULTIPLEXING
Optical multiplexers and demultiplexers for optical wavelength-division multiplex transmission systems
[BMFT-FB-T-83-167] 05 p0748 N84-14912

DENDRITIC CRYSTALS
Solidification rate influence on orientation and mechanical properties of MAR-M-246+Hf
[NASA-TM-82556] 05 p0653 N84-14290
Some fundamental aspects of solidification in a supercooled melt
[NASA-TM-83714] 17 p2623 N84-26787
Crystallization of silicon ribbons 18 p2936 N84-28618
Transport processes in dendritic crystallization 18 p2936 N84-28621
Orientation and morphology effects in rapid silicon sheet solidification 18 p2937 N84-28627
Electrical and structural characterization of web dendrite crystals 18 p2939 N84-28643
Process research of non-CZ silicon material
[NASA-CR-173759] 19 p3050 N84-29353
Flat-plate solar array project process development area, process research of non-CZ silicon material
[NASA-CR-173926] 23 p3786 N84-34012
Process research of non-CZ silicon material
[NASA-CR-173954] 23 p3787 N84-34017
Large-area sheet task advanced dendritic web growth development
[NASA-CR-173958] 23 p3787 N84-34019
Progress research of non-Cz silicon material
[NASA-CR-173949] 23 p3787 N84-34021

DENDRITIC DRAINAGE
U DRAINAGE PATTERNS

DENITROGENATION
Hydrotreating of coal derived liquids
[BMFT-FB-T-83-175] 07 p0973 N84-16304
Verification of an altitude decompression sickness prevention protocol for Shuttle operations utilizing a 10.s psi pressure stage
[NASA-TM-58259] 18 p2899 N84-28392

DENMARK
Deterministic models in mathematical demography: An investigation of stable population theory including an analysis of the population statistics of Denmark 03 p0428 N84-12806
A study of the weather record from Faroe (1872-1980) including an analysis of climate variation
[AD-A136694] 10 p1540 N84-20090
Glacial and periglacial landforms in Denmark: Scandinavian analogs for Martian features 13 p2085 N84-23507
Handling of hydrazine in the Royal Danish Air Force 22 p3631 N84-33014

DENSE PLASMAS
NT PLASMA FOCUS
NT STRONGLY COUPLED PLASMAS
Atomic processes in hot dense plasma
[IPPJ-AM-31] 03 p0443 N84-12911
Bibliography on atomic processes in hot dense plasmas
[IPPJ-AM-29] 03 p0443 N84-12913
Strong coupling effects on bound states in plasmas
[AD-A131661] 03 p0444 N84-12918
Atomic structure in strongly coupled neon plasmas
[AD-A137341] 10 p1576 N84-20327
Buildup and sustainment of 10(13) and cm(-3) plasma by ICRF in RFC-XX
[IPPJ-653] 10 p1580 N84-20356
Diagnostics and simulation in G-XII implosion experiments 11 p1735 N84-21316
Atomic processes for modeling of inertial confinement fusion plasma 11 p1735 N84-21317
Physics of high temperature, dense plasmas
[AD-A138872] 13 p2044 N84-23268
Electrical conductivity of an arbitrarily dense plasma
[DE84-008006] 14 p2230 N84-24374
Dense Coulomb plasmas: Quantum statistics and ordering 15 p2410 N84-25484
Research in dense plasma atomic physics
[AD-A141538] 19 p3107 N84-29740
Advanced concepts theory
[AD-A141568] 19 p3107 N84-29741
Protective plasma envelope
[DE84-013316] 21 p3502 N84-32194
Catastrophe in plasma focus evolution
[IPPJ-686] 23 p3826 N84-34268

DENSIFICATION
Densification of shock-treated aluminum nitride and aluminum oxide
[DE84-003251] 07 p0968 N84-16273
Dynamic consolidation of ceramic powders: Practicalities, problems, and prospects
[DE84-003744] 08 p1138 N84-17404
Role of Al-2O-3 in sintering of submicron yttria-stabilized ZrO-2 powders
[AD-A136798] 10 p1460 N84-19533

Comparative studies of vapor and liquid-phase impregnation of porous silicon nitride and silicon carbide materials
[DE84-012867] 21 p3359 N84-31309
Effects of applied pressure on hot-pressing of Beta-SiC
[NASA-TM-77397] 23 p3723 N84-33593

DENSIMETERS
NT ULTRASONIC DENSIMETERS
National Bureau of Standards Journal of Research, volume 88, no. 4, July - August 1983
[PB84-115849] 08 p1163 N84-17571

DENSITOMETERS
NT MICRODENSITOMETERS
High resolution ultrasonic densitometer
[DE84-003367] 13 p1994 N84-22939
A preliminary analysis of a diode array for densitometry 18 p2842 N84-28045
High resolution bone mineral densitometry with a gamma camera
[NASA-TM-85386] 18 p2899 N84-28391

DENSITY
The long term upper ocean study (LOTUS). Cruise summary and hydrographic data report, ENDEAVOR 97, April 1983
[AD-A134005] 06 p0883 N84-15745
Ascension Island, South Atlantic Range reference atmosphere, 0.66 km altitude
[AD-A138470] 12 p1861 N84-22122
Conference Grant for 2nd World Congress on Biomaterials
[AD-A143129] 21 p3454 N84-31915

DENSITY (MASS/VOLUME)
NT ATMOSPHERIC DENSITY
NT GAS DENSITY
Passive microwave sensing of soil moisture content: Soil bulk density and surface roughness
[E84-10019] 02 p0237 N84-11556
Method and apparatus for minimizing convection during crystal growth from solution
[NASA-CASE-NPO-15811-1] 03 p0451 N84-12968
Consolidation of Si3N4 without additives (by hot isostatic pressing)
[NASA-CR-173279] 08 p1136 N84-17389
Combustion of agglomerates formed by carbon slurry fuels
[AD-A136390] 09 p1278 N84-18345
Density of sodium chloride solutions at high temperatures and pressures
[DE84-004883] 10 p1456 N84-19508
Simultaneous multipoint measurements of density gradients and temperature in a flame
[DE84-006832] 12 p1794 N84-21697
The density of liquid slags containing iron oxide
[NPL-DMA(A)-75] 17 p2622 N84-26782
Development of sintered Si3N4 for high performance thermomechanical applications
[AD-A140795] 17 p2627 N84-26807
Crystalline-state extrusion of low density polyethylenes
[AD-A142017] 20 p3161 N84-30075
Density fluctuations in premixed turbulent flames
[DE84-012055] 21 p3361 N84-31322
Solar tides in the mesospheric sodium layer
[INPE-2942-TDL/151] 22 p3622 N84-32953
Liquified natural gas densities: Summary of research program at the National Bureau of Standards
[PB84-202647] 22 p3675 N84-33297

DENSITY (NUMBER/VOLUME)
NT CARRIER DENSITY (SOLID STATE)
NT ELECTRON DENSITY (CONCENTRATION)
NT ELECTRON DENSITY PROFILES
NT ELECTRON DISTRIBUTION
NT ION DENSITY (CONCENTRATION)
NT IONOSPHERIC ELECTRON DENSITY
NT IONOSPHERIC ION DENSITY
NT MAGNETOSPHERIC ELECTRON DENSITY
NT MAGNETOSPHERIC ION DENSITY
NT METEOROID CONCENTRATION
NT PACKING DENSITY
NT PARTICLE DENSITY (CONCENTRATION)
NT PLASMA DENSITY
Analytical evaluation of the potential due to a uniformly charged planar triangular region
[AD-A130810] 01 p0138 N84-10907
Metamorphic fluids and uplift-erosion history of a portion of the Kapuskasing structural zone, Ontario, as deduced from fluid inclusions 11 p1680 N84-20962
Stress relaxation of cellular silicone material, 1983
[DE84-007103] 12 p1802 N84-21749
Quantum theory of optical excitonic bistability 14 p2237 N84-24427
The crater density of a linear feature 15 p2427 N84-25577

DENSITY (RATE/AREA)
U FLUX DENSITY

DENSITY DISTRIBUTION
Transport and radiative processes in the Io plasma torus 05 p0749 N84-14916
Application of the density matrix multipole expansion to stark quantum beats from beam-foil-excited hydrogen atoms
[AD-A133603] 06 p0797 N84-15193
Are Northern Hemisphere tropospheric ozone densities larger?
[INPE-2910-PRE/423] 07 p1031 N84-16691
Maximum entropy reconstruction of a volume anomaly from pulse scatter data
[DE84-002463] 08 p1237 N84-18084
Band-overlap metallization of BaS, BaSe and BaTe
[NASA-CR-173396] 12 p1912 N84-22458
Progressive impact cratering 13 p2078 N84-23469
Lateral dispersion of a high-energy ion beam in a scattering medium
[UTIAS-278] 14 p2222 N84-24331
MEM spectrum analysis of snow densities 15 p2353 N84-25117
Observations of He+ ions in the solar wind
[KGI-PREPRINT-064] 15 p2428 N84-25585
Solution of direct problem in gravimetry on spherical Earth 17 p2700 N84-27202
Local gravity anomalies and crustal density inhomogeneities in southern Kurile Islands 17 p2701 N84-27205
Density inhomogeneities in upper mantle of eastern Indian Ocean 17 p2702 N84-27210
Formation of spatial Alfven resonance and global modes in an inhomogeneous plasma
[IPPJ-674] 20 p3302 N84-30966
Computer simulation studies of sputtering and multimer formation from clean and oxygen reacted surfaces of titanium, vanadium and niobium
[AD-A141998] 20 p3308 N84-31009
Nonlinear inverse methods applied to interpreting gravity anomalies produced by multi-interfaced geologic bodies 21 p3440 N84-31822
Protective plasma envelope
[DE84-013316] 21 p3502 N84-32194
Observations and analysis of solar flares using H Alpha spectral profiles 21 p3526 N84-32335
The density distribution of galactic cosmic rays allowing for the generalized tensor of anisotropic diffusion and for the real distribution of solar activity 24 p3994 N84-35275

DENSITY MEASUREMENT
NT PHOTON ABSORPTIOMETRY
High-latitude F-region irregularities: Intensity and scale size distributions
[AD-A130889] 01 p0105 N84-10684
Long-term trends in dynamic height and sea surface temperature
[DE83-014868] 02 p0258 N84-11667
Properties of the neutral density and composition in the thermosphere
[AD-A131557] 03 p0407 N84-12665
Atomic-beam density determination from laser-induced fluorescence interval distributions
[DE84-000677] 04 p0542 N84-13571
The amplitude density function and high-resolution frequency analysis of time series
[AD-A132466] 04 p0592 N84-13906
Application of holography to flow visualization
[NASA-TM-84325] 07 p1007 N84-16530
Particle sizing in a fuel-rich ramjet combustor
[AD-A135632] 09 p1257 N84-18204
Determining density of upper mantle rocks 11 p1670 N84-20898
Acoustically compensated two-wavelength interferometry for plasma density measurements: One-dimensional theory and applications
[DE84-007983] 14 p2229 N84-24368
Optimum density structure of upper mantle along Japan - Shatsky Rise - Emperor Sea mounts geotraverse 17 p2704 N84-27220
Device for determining frost depth and density
[NASA-CASE-NFS-25754-1] 18 p2839 N84-28018
Positive-feedback photometric drift in the PDS 18 p2840 N84-28025
An improved microwave interferometer technique for plasma density measurements
[TRITA-EPP-83-08] 18 p2935 N84-28611
Nonlinear dynamics of resonance-type instability in high-density electron beam: Analytical solution 21 p3483 N84-32074
Hydrographic measurements in the western Arlboran Sea, October 1982
[AD-A143588] 22 p3627 N84-32985
Liquified natural gas densities: Summary of research program at the National Bureau of Standards
[PB84-202647] 22 p3675 N84-33297
Introduction to simulation of upper atmosphere oxygen satellite exposed to atomic oxygen in low Earth orbit 24 p3863 N84-34479
The effects of curvature on turbulent mixing layers
[AD-A144250] 24 p3900 N84-34697

DEOXYGENATION
Hydrotreating of coal derived liquids
[BMFT-FB-T-83-175] 07 p0973 N84-16304

DEOXYRIBONUCLEIC ACID
Lethal, potentially lethal lesion model
[DE84-001325] 06 p0886 N84-15762
Effect of radiofrequency radiation on DNA duplex stability and replication
[AD-A133526] 07 p1042 N84-16759
Pea amyloplast DNA is qualitatively similar to pea chloroplast DNA 09 p1359 N84-18677
Middle East Technical University Journal of Pure and Applied Sciences, volume 15, no. 2 15 p2401 N84-25406
Commercial biotechnology: An international analysis
[PB84-173608] 16 p2535 N84-26272
Allomonades: New group of vibrionaceae family microorganisms 17 p2742 N84-27410
Microwaves and human leukocyte function: Exposure of human mononuclear leukocytes to microwave energy pulse-modulated at 16 Hz or at 60 Hz
[AD-A141071] 19 p3065 N84-29443
Bilateral carotid ligation and effects of electromagnetic field on conditioned reflex retention and cerebral nucleic acid levels 20 p3258 N84-30677
Dissociation of amino acid-DNA complexes under influence of long-wave UV light 20 p3258 N84-30680
Roles of ionizing radiation in cell transformation
[DE84-013397] 22 p3629 N84-32995

DEPENDENCE
NT TEMPERATURE DEPENDENCE
NT TIME DEPENDENCE
Notions of dependency satisfaction
[AD-A135303] 08 p1211 N84-17902

DEPENDENCY
U DEPENDENCE

DEPLETION
A study of depletion in low-velocity diffuse interstellar gas 03 p0462 N84-13042
Contribution to the low temperature study of MOS transistors (10K-77K)
[ENST-83E017] 19 p3113 N84-29781
A general survey of the correlation of interstellar element depletion with line-of-sight density indicators 24 p3973 N84-35158

DEPLOYMENT
Finite element analysis of a deployable space structure 06 p0932 N84-16056
Synchronously deployable truss structure
[NASA-CASE-LAR-13117-1] 07 p0964 N84-16250
The STEP/STACBEAM experiment technology development for very large solar array deployers 08 p1110 N84-17220
Low concentration ratio solar array structural configuration 08 p1111 N84-17225
Development of Test Article Building Block (TABB) for deployable platform systems 08 p1111 N84-17226
Space telescope: Solar array primary development mechanism 09 p1294 N84-18458
Geometric modeling of large space antenna deployment 12 p1876 N84-22225
A study of MX environmental management information system (MXEMIS) needs
[AD-A139025] 13 p2067 N84-23404
Improved prediction of parachute line sail during lines-first deployment
[DE84-007340] 15 p2258 N84-24563
Inherent problems in designing two-failure tolerant electromechanical actuators 15 p2348 N84-25088
The electron Echo 6 mechanical deployment systems 15 p2348 N84-25094
Quick Deployment Vehicle (QDV)
[AD-D011060] 22 p3563 N84-32563
Self-deploying afterbody apparatus for an ejection seat
[AD-D011205] 24 p3852 N84-34433
Pivotal mono wing cruise missile with wing deployment and fastener mechanism
[AD-D011192] 24 p3853 N84-34436
Ground test article for deployable space structure systems
[NASA-CR-171158] 24 p3858 N84-34457

DEPOLARIZATION
Carbonaceous anode depolarizers for electrolytic hydrogen production
[DE83-013278] 01 p0053 N84-10343
A simple model for the depolarizing effects of rain and ice on Earth-satellite links in the 10 to 30 GHz frequency range
[NASA-CR-174482] 02 p0211 N84-11382

Scattering and depolarization of electromagnetic waves-full wave solutions
[AD-A138349] 12 p1807 N84-21782
Scattering and depolarization of electromagnetic waves--full wave solutions
[AD-A139810] 15 p2321 N84-24934
Ice depolarization on low-angle 2 GHz satellite downlinks 15 p2323 N84-24946
The effect of current density on anode depolarization economics
[DE84-010465] 21 p3392 N84-31524

DEPOLARIZERS
U DEPOLARIZATION

DEPOSITION
NT ANODIZING
NT ELECTRODEPOSITION
NT ELECTROLESS DEPOSITION
NT ELECTROPLATING
NT VACUUM DEPOSITION
NT VAPOR DEPOSITION

Surface acoustic wave/silicon monolithic sensor/processor
[NASA-CR-174541] 01 p0056 N84-10366
Prediction of microstructural modification in dynamically consolidated metal powders
[DE83-015690] 02 p0196 N84-11278
Marine manganese accretions: Nodule micronodule comparisons among major ocean basins 02 p0257 N84-11683
Orbital resonances and planetary accretion in the early solar system evolution 02 p0307 N84-12016
Fabrication and properties of multilayer structures
[AD-A131934] 03 p0451 N84-12969
Survey of water quality and flow in Maryland coastal zone streams: A data report
[PB83-249375] 04 p0556 N84-13660
Fate and effects of metals in the sea-surface microlayer
[DE84-000114] 04 p0569 N84-13752
Fast, self-nulling spectroscopic ellipsometer: Instrumentation and application, revision
[DE83-015531] 04 p0605 N84-13994
Eclipse mapping of accretion disks in cataclysmic binaries 04 p0618 N84-14080
Laser photodeposition and photoetching study
[AD-A134095] 05 p0752 N84-14934
Ion plating in corrosion protection
[DE84-001182] 06 p0807 N84-15256
FeO and H-2O and the homogeneous accretion of the earth
[NASA-CR-173242] 07 p1028 N84-16664
Process and cell arrangement for producing difficult to reduce elements by fused salt electrolysis
[BLL-OA-TRANS-3137-(6196.3)] 08 p1129 N84-17339
Ion deposited carbon coatings
[AD-A135068] 08 p1136 N84-17390
Atmospheric deposition to forests
[DE84-003384] 08 p1182 N84-17700
Estimation of North America anthropogenic sulfur deposition as a function of source/receptor separation
[DE84-003638] 08 p1182 N84-17701
Monolithic ZnO SAW (Surface Acoustic Waves) structures
[AD-A135987] 09 p1309 N84-18557
Optical detection loss due to air-borne salts on Diego Garcia
[AD-A136120] 09 p1346 N84-18792
Experimental and theoretical deposition rates from salt-seeded combustion gases of a Mach 0.3 burner rig
[NASA-TP-2225] 10 p1490 N84-19741
Solar Thermal Technology Program: Polymer synthesis and characterization subtask, FY 1983
[DE84-000094] 10 p1530 N84-20022
Regional acid deposition: Models and physical processes
[PB84-115997] 10 p1532 N84-20035
Regional acid deposition: Design and management plan for a comprehensive modeling system
[PB84-116003] 10 p1532 N84-20037
Computer program for prediction of the deposition of material released from fixed and rotary wing aircraft
[NASA-CR-3780] 11 p1600 N84-20482
Numerical studies of the deposition of material released from fixed and rotary wing aircraft 11 p1602 N84-20491
Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] 11 p1632 N84-20670
Meteorologically induced uncertainty in LRT modeling
[DE84-003444] 11 p1676 N84-20935
Preliminary report on the global transport model GRANTOUR
[DE84-005596] 11 p1676 N84-20936
Clastic sedimentary rocks of the Michipicoten Volcanic-sedimentary belt, Wawa, Ontario 11 p1679 N84-20960
Ionized cluster beam deposition 12 p1840 N84-21995
Chemical deposition of SiO2 on InP
[AD-A138355] 12 p1914 N84-22472
Diamondlike flake composites
[NASA-CASE-LEW-13837-1] 13 p1953 N84-22695
Electrical, chemical, and microstructural characterization of gettering mechanisms for VLSI (Very Large Scale Integrated Circuits)
[AD-A138662] 13 p1986 N84-22893
Plasma-initiated laser deposition of polycrystalline and monocrystalline silicon films
[DE84-005527] 13 p1996 N84-22953
Wind streaks on Mars: Comparisons of production models with observations of bright streaks 13 p2081 N84-23486
Martian dust storms witnessed by Viking Lander 1 13 p2081 N84-23487
A possible source for the Martian circumpolar dune material 13 p2082 N84-23490
Micro-reactions of metal contacts on various types of GaAs surfaces
[AD-A139412] 14 p2242 N84-24484
Ion plating as a deposition method for tribological coatings
[VTT-13] 15 p2296 N84-24778
LSI/VLSI (Large Scale Integration/Very Large Scale Integration) ion implanted GaAs (Gallium Arsenide) IC processing. Appendix A: Feasibility analysis of Gallium-Arsenide mask programmable functions and logic arrays for high performance communications systems
[AD-A139677] 15 p2328 N84-24980
Status of plasma physics techniques for the deposition of tribological coatings 15 p2342 N84-25058
Entrainment and deposition of drops in a dispersed 2-phase flow: An experimental investigation
[CFD/83/6] 16 p2836 N84-28013
Initiation and accretion experiment on the HDZP
[DE84-009997] 18 p2933 N84-28601
Deposition of diamondlike carbon films
[NASA-CASE-LEW-14080-1] 19 p2996 N84-28986
Effects of wear metal on lubricant deposition
[AD-A142027] 19 p2999 N84-29008
Study of dry resistant techniques for electron beam lithography
[BMFT-FB-T-84-037] 19 p3028 N84-29206
Aspects of electroless nickel plating on molybdenum
[DE84-006434] 20 p3158 N84-30057
Air pollution effects on aquatic ecosystems: Summary of a symposium
[PB84-185214] 20 p3239 N84-30562
Deposits on light alloys — aluminum
[CETIM-12-F-380] 21 p3368 N84-31371
Dual ion beam deposition of carbon films with diamondlike properties
[NASA-TM-83743] 21 p3390 N84-31512
Urban and local source effects on precipitation chemistry
[DE84-011848] 21 p3436 N84-31803
Microfacies, depositional models and diagenesis of Lagoa Feia Formation (lower cretaceous), Campos Basin, offshore Brazil 21 p3440 N84-31827
Depositional environment and petrology of the Medicine Peak Quartzite (early proterozoic), southern Wyoming 21 p3441 N84-31829
Investigation of the state of materials in plasma deposition of refractory coatings
[BLL-M-35686-(5828.4)] 22 p3551 N84-32485
Wafer-scale laser pantography. Part 6: Direct-write interconnection of VLSI gate arrays
[DE84-012676] 22 p3601 N84-32615
Lower tertiary biostratigraphy and paleoecology of the Quilcene-Discovery Bay area, northeast Olympic Peninsula, Washington 22 p3621 N84-32943
Process for the epitaxial deposition of III-V compounds utilizing a binary alloy as the metallic source
[AD-D011097] 22 p3664 N84-33229
Mechanisms involved in the glow-discharge deposition of doped hydrogenated amorphous silicon
[DE84-013124] 22 p3665 N84-33236
Nucleation and growth of N- and P-type microcrystals in low-temperature glow-discharge deposited silicon films
[DE84-013122] 22 p3667 N84-33246
An experimental and theoretical investigation of deposition patterns from an agricultural airplane
[NASA-TP-2348] 23 p3689 N84-33379
Advanced strain-isolation-pad material with bonded fibrous construction
[NASA-CR-166599] 23 p3723 N84-33592
Depositional history and sedimentology of upper cretaceous mancos shale and lower mesaverde group, Northwestern Colorado: Migrating shelfbar and wave-dominated shoreline deposits 23 p3796 N84-34068
Growth of CdTe/HgTe superlattice with the LADA (Laser Assisted Deposition and Annealing) techniques
[AD-A143948] 23 p3830 N84-34295
MOD silver metallization for photovoltaics
[NASA-CR-173975] 24 p3884 N84-34610
Investigation of thermal coking rates of Air Force jet fuels
[AD-A144421] 24 p3890 N84-34631

DEPOSITS
NT CALCULI

Deposit formation and heat transfer in hydrocarbon rocket fuels
[NASA-CR-168277] 03 p0343 N84-12225
Structure of convective surface deposits and effect on MHD steam-plant design
[DE83-010757] 03 p0446 N84-12931
Solubility of the NiO fuel-cell cathode in Li2CO3 melts as determined by cyclic voltammetry
[DE83-014311] 04 p0530 N84-13485
Emission FTIR analyses of thin microscopic patches of jet fuel residue deposited on heated metal surface
[NASA-CR-168331] 08 p1139 N84-17410
Studies of Electron-Beam-Induced decomposition of benzene
[AD-A137241] 10 p1454 N84-19496
MMH-nitrate and plume deposits from NTO/MMH engines 13 p1941 N84-22620
Basic study of fuel storage stability
[AD-A142194] 19 p2966 N84-28799
Effects of wear metal on lubricant deposition
[AD-A142027] 19 p2999 N84-29008
The neogene stratigraphy of the Central Florida Panhandle 21 p3441 N84-31833
FTIR analysis of aviation fuel deposits
[NASA-TM-83773] 23 p3726 N84-33608
Investigation of thermal coking rates of Air Force jet fuels
[AD-A144421] 24 p3890 N84-34631

DEPRESSION
Vortical-potential flow of ideal fluid along plane with depression 17 p2646 N84-26927

DEPRESSIONS (TOPOGRAPHY)
U STRUCTURAL BASINS

DEPRESSURIZATION
U PRESSURE REDUCTION

DEPRIVATION
NT SLEEP DEPRIVATION

Variations in states of alertness during continuous operations at the control post level 11 p1697 N84-21068

DEPTH
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F. Cape Romanzof AFS, Alaska
[AD-A130206] 01 p0107 N84-10698
The CTD data collected in the Rockall trough on RRS Shackleton Cruise 5c/78 during JASIN 1978 — salinity, temperature, depth (CTD); air sea interaction (JASIN)
[IOS-147] 02 p0258 N84-11691
Long SeaSoar CTD sections in the northeast Atlantic Ocean collected during RRS Discovery Cruise 116 — salinity, temperature, depth (CTD)
[IOS-148] 02 p0258 N84-11692
Interactive surface visualization using raster graphics
[AD-A132548] 04 p0579 N84-13819
Propagation of weakly-nonlinear surface water waves in regions with varying depth and current
[AD-A132593] 05 p0711 N84-14657
Quantitative sputter profiling at surfaces and interfaces 06 p0816 N84-15314
Depth resolution due to instrumental factors in sputter-assisted depth profiling 06 p0816 N84-15315
Dip-moveout by Fourier transform 06 p0878 N84-15899
The probabilistic analysis on the influence of roughness to depth and velocity in open channels
[PREPRINT-792] 12 p1817 N84-21847
Variability of vertical distributions of sea water temperature and light extinction index in section across Mascarene Ridge 18 p2857 N84-28142
Density model of upper mantle under oceans 18 p2858 N84-28147
Investigation of role of subsurface zones in wear of materials
[DE84-012752] 21 p3368 N84-31365
Thermistor chain observations during MILDEX (mixed layer dynamics experiment)
[AD-A143933] 23 p3803 N84-34114
Photothermal analysis of thin films
[AD-A144472] 24 p3967 N84-35120

DEPTH MEASUREMENT
Evaluation of a ground transient electromagnetic remote sensing method for the deep detection and monitoring of salt water interfaces
[PB83-253351] 05 p0698 N84-14580
Simulation of Thematic Mapper data for remote bathymetry
[AD-A136377] 09 p1337 N84-18728
Airborne lidar for oceanography and hydrology (FLOH)
[ESA-TT-799] 13 p1996 N84-22955
CTD data from the N.E. Atlantic 31N to 46N, July 1982 Discovery cruise 130
[IOS-165] 15 p2372 N84-25233
Mean depths of line formation 15 p2421 N84-25541
Ray trajectories in stochastic media with linear dependence of deterministic velocity component on depth 17 p2702 N84-27211
Ocean optical remote sensing capability statement
[AD-A140589] 17 p2721 N84-27321
Device for determining frost depth and density
[NASA-CASE-NFS-25754-1] 18 p2839 N84-28018
Empirical and dynamic modes in the CCS (California current system)
[AD-A141047] 18 p2892 N84-28357
Underwater depth telemetry
[AD-D011054] 22 p3541 N84-32418
Radiation measurement of snowy season in 1962-1963 at Sapporo 23 p3762 N84-33845
Preliminary study of LANDSAT imageries of Taiwan and its surroundings 24 p3956 N84-35050

DEPTH PERCEPTION
U SPACE PERCEPTION

DERIVATION
Method of deriving equations of motion for dynamically adjustable gyroscope 17 p2643 N84-26912
A note on the derivation of theoretical autocovariances for ARMA models
[AD-A140629] 17 p2760 N84-27527

DERIVATION CALCULUS
U DIFFERENTIAL CALCULUS

DERMATOLOGY
Clinical-immunological spectrum of Leishmaniases 17 p2741 N84-27404

DESALINIZATION
Center for the transfer of desalination technology
[PB83-223057] 01 p0039 N84-10246
Novel composite membranes
[PB83-243170] 03 p0351 N84-12284
Mass transfer and thermodynamic studies of evaporative freezing of water
[PB84-153501] 17 p2620 N84-26769
Agricultural waste water reverse osmosis pretreatment
[PB84-153543] 17 p2725 N84-27347
Reference plant for high temperature electrodialysis desalting of seawater
[PB84-195841] 22 p3549 N84-32471

DESCALING
The descaling of 3Cr12 steel 06 p0617 N84-15322

DESCENT
NT PARACHUTE DESCENT
Time controlled descent guidance algorithm for simulation of advanced ATC systems
[NASA-TM-84373] 01 p0007 N84-10043
Lecture notes on the principles and practice of airplane performance prediction. Part 2: Point-performance in steady symmetric and unsymmetric flight
[VTH-LR-365-VOL-2] 10 p1429 N84-19346
A calculation of descent segment of internal ballistics in solid rocket motors
[AD-A137199] 11 p1626 N84-20642
Effects of aircraft and flight parameters on energy-efficient profile descents in time-based metered traffic
[NASA-CR-172338] 17 p2604 N84-26685

DESCENT TRAJECTORIES
IRAAM wind tunnel test, task 3
[AD-A135256] 08 p1099 N84-17148

DESCRIPTIONS
Toward a theory of library and information science 13 p2067 N84-23405
Defining of the BDX930 assembly language 15 p2387 N84-25320

DESERTIFICATION
Identifying environmental features for land management decisions
[E84-10125] 14 p2168 N84-23984

DESERTS
NT SAHARA DESERT (AFRICA)
Evaluation of radiometric and geometric characteristics of LANDSAT-D imaging system
[E84-10050] 04 p0553 N84-13643
The behavior of the atmosphere in the desert planetary boundary layer
[AD-A135962] 09 p1345 N84-18791
Classification of the California Desert for geology-energy-mineral resource potential geostatistical classification
[PB84-100668] 10 p1538 N84-20078
Influence of surface roughness of a desert 12 p1859 N84-22109
Desert pavement study at Amboy, California 13 p2062 N84-23492
Salts in the dry valleys of Antarctica 13 p2085 N84-23510
Multiprocess evolution of landforms in the Kharga Region, Egypt: Applications to Mars 13 p2086 N84-23511
Planetary geomorphology field studies: Iceland and Antarctica 13 p2086 N84-23514
Pinacate-Gran Desierto Region, Mexico: SIR-A data analysis 13 p2088 N84-23526
A pleistocene sand desert in Arctic Alaska 14 p2165 N84-23966
Desert emergency of lack of water; how to find and collect water
[AD-A140981] 18 p2789 N84-27703
Desert emergency - lack of water - how to find and collect water. Plants and human survival in the desert
[AD-A142025] 20 p3228 N84-30513
Geology, petrology and geochronology of the metamorphic rocks of Meatiq Dome, Central Eastern Desert, Egypt 22 p3621 N84-32942
Morphologic studies of the Moon and planets
[NASA-CR-173886] 22 p3678 N84-33319
Rainfall patterns in the desert
[WCP-75] 23 p3801 N84-34099
Evaluation of optical data collection instrumentation in the desert environment
[AD-P003847] 24 p3939 N84-34934

DESICCANTS
An assessment of dehumidifier geometries for desiccant cooling systems
[DE83-011991] 16 p2512 N84-26123

DESICCATION
U DRYING

DESIGN
Hermetically sealed microminiature multisocket connector
[DE83-017484] 03 p0384 N84-12503
Cascade Joule-Thomson refrigerators 06 p0821 N84-15354
Flywheel energy-management systems for improving fuel economy of motor vehicles
[DE84-002340] 06 p0874 N84-15688
Multi-transition stamping of components with thin body and tall stiffening ribs
[BLL-M-35384-(5828.4)] 08 p1140 N84-17415
Zinc-bromine cell design
[DE84-005532] 11 p1647 N84-20773
Design of the near shore seawater systems for an OTEC expanded test facility
[DE84-004043] 11 p1674 N84-20926
Design of a combustion chambers with reverse flow for small gas turbines 15 p2290 N84-24742
Optimal design of rotating disk with temperature gradient 15 p2313 N84-24877
Design calculations associated with the laying of submarine communication cables
[NPL-DMA(A)-76] 15 p2346 N84-25077
Survey of design tools for passive and hybrid low energy buildings 16 p2516 N84-26147
Development of an evaluation methodology for passive solar design tools 16 p2516 N84-26148
Passive solar design guidelines and evaluation criteria for builders 16 p2516 N84-26153
Effect of operating temperature on the HWB model for solar-collector design
[DE84-900248] 16 p2519 N84-26172
PDS concepts and astronomical applications: An overview 18 p2840 N84-28029
Proceedings of the Fifth Parabolic Dish Solar Thermal Power Program
[NASA-CR-173745] 18 p2871 N84-28224
Advanced solar receivers 18 p2872 N84-28232
Advanced solar power systems 18 p2872 N84-28235
Design of a safety monitor system for high explosives machining
[DE84-010101] 20 p3168 N84-30113
General-purpose RFQ design program
[DE84-011327] 20 p3175 N84-30165
AFB/open cycle gas turbine conceptual design study
[NASA-CR-168135] 21 p3434 N84-31784

DESIGN ANALYSIS
Performance and robustness aspects of digital control systems 01 p0015 N84-10098
Analysis and summary of OTEC (Ocean Thermal Energy Conversion) cold water pipe costs
[PB83-221002] 01 p0060 N84-10392
OTEC (Ocean Thermal Energy Conversion) cold water pipe at-sea test program. Volume 2.F.: Environmental design criteria
[PB83-221127] 01 p0060 N84-10394
Environmental design criteria for the 1/3 scale OTEC cold water pipe at-sea test site off Honolulu, Hawaii
[PB83-221143] 01 p0060 N84-10395
New fabrication process for a tubular LiAl/FeS cell battery
[DE83-014305] 01 p0074 N84-10488
Design and fabrication of a fiberglass circular-weave composite flywheel
[DE83-013406] 01 p0090 N84-10589
Extended development procedure EDeP user's manual
[AD-A131381] 01 p0116 N84-10756
A collection of A-optimal designs for control-test treatment comparisons, part 1
[AD-A129322] 01 p0132 N84-10866
Advanced light source
[DE83-012894] 01 p0143 N84-10940
Design analysis of an aluminum-air battery for vehicle operations: Transportation systems research
[DE83-014488] 01 p0163 N84-11071
Aeroelastic design considerations in the development of helicopters 02 p0171 N84-11126
Qiang 5 attack aircraft of the PRC
[AD-A131058] 02 p0177 N84-11161
Energy efficient engine: Flight propulsion system, preliminary analysis and design update
[NASA-CR-167980] 02 p0179 N84-11170
Size scale effect in cavitation erosion
[NASA-TM-83533] 02 p0193 N84-11254
An approach to expert systems for mechanical design
[AD-A131340] 02 p0272 N84-11777
Approximation methods in multidimensional filter design and related problems encountered in multidimensional system design
[AD-A131316] 02 p0280 N84-11836
Optimization of constructions by means of the finite element method
[IWECO-5071303-82-2] 02 p0283 N84-11856
Safety report: General aviation crashworthiness project, phase 1
[PB83-917004] 03 p0328 N84-12142
Optimization of engine power offtake by secondary power system design 03 p0335 N84-12177
Analytical design of a liquid hydrogen fueled turbofan-ramjet engine for flight Mach numbers zero to five 03 p0336 N84-12187
Development of mass-producible line-focus tracking concentrating solar collectors. Category 1: Collectors
[DE83-015629] 03 p0403 N84-12639
Linked state machines
[DE83-4000123] 03 p0419 N84-12736
Environments and search paths for the software tools
[DE83-016607] 03 p0420 N84-12749
Using structural and functional information in diagnostic design
[AD-A131859] 03 p0423 N84-12769
University of Washington superconducting-booster project
[DE83-015689] 03 p0434 N84-12846
Airborne Intelligent Display (AID) phase 1 software development
[ATC-123] 04 p0484 N84-13181
A rectangular gate merged MOSBJT
[AD-A132450] 04 p0525 N84-13453
Research, development and demonstration of lead-acid batteries for electric vehicle propulsion
[DE84-000468] 04 p0527 N84-13464
Optimization of structures subjected to periodic loads 04 p0547 N84-13605
Spectroradiometric calibration of the thematic mapper and multispectral scanner system
[E84-10045] 04 p0552 N84-13638
Design analysis of advanced photovoltaic technologies
[DE84-000008] 04 p0557 N84-13675
The design and implementation of debugging systems for languages with advanced control structures 04 p0578 N84-13811
Transonic flow over an isolated profile and through a cascade of blade. Phenomenological analysis 05 p0626 N84-14118
Design and performance of a fixed, nonaccelerating, guide vane cascade that operates over an inlet flow angle range of 60 deg
[NASA-TM-83519] 05 p0626 N84-14120
Subsystem duplexer for a 6-4 GHz Earth station
[INPE-2795-PRE/357] 05 p0666 N84-14379
Optimal approximation algorithms for digital filter design 05 p0673 N84-14420
Design patents
[PB83-224063] 05 p0760 N84-14985

Tactical requirements impact on avionics/weapon system design 08 p0768 N84-15036
Operational readiness and its impact on fighter avionics system design 08 p0768 N84-15037
A future system design technique based on functional decomposition, supported by quantifiable design aims, and guidelines for minimum maintenance costs 08 p0769 N84-15039
A practical approach to the design of a new avionic system 08 p0772 N84-15058
Design considerations for remotely piloted, high-altitude airplanes powered by microwave energy [NASA-TM-85730] 08 p0786 N84-15145
ACOSS Fourteen (Active Control of Space Structures) [AD-A133411] 08 p0795 N84-15181
Design and use of nonstandard tensile specimens for irradiated materials testing [DE84-001468] 08 p0806 N84-15254
New polymers for low-gravity purification of cells by phase partitioning [NASA-CR-170957] 08 p0809 N84-15267
A miniature tilting pad gas lubricated bearing 08 p0819 N84-15340
Spread spectrum transmission. Part 1: General characteristics [FUB-49-1982-PT-1] 08 p0826 N84-15385
The use of microprocessors for the instrumentation of nondestructive tests [CISE-2072] 08 p0855 N84-15571
Material selection and structural design for safety and durability [NLR-MP-82023-U] 08 p0862 N84-15617
Line-focusing adjustable parabolic spiar-concentrating collector [DE84-001590] 08 p0874 N84-15687
A note on the analysis of random balance designs [AD-A133287] 08 p0901 N84-15848
Cross section estimates for multi-TeV physics 08 p0911 N84-15914
State-of-the-art survey of existing knowledge for the design of ground-source heat pumps [DE84-002988] 07 p1003 N84-16504
Structural optimization: Challenges and opportunities [NASA-TM-85741] 07 p1016 N84-16591
Design report: Two axis rotational rate measurement system using rate gyros [NIAST-83/08] 07 p1068 N84-16938
Shape optimal design and free boundary value problems 08 p1154 N84-17516
Constraint driven synthesis of hardware design 08 p1207 N84-17870
SP-100 program: Space reactor system and subsystem investigations [DE84-003217] 08 p1231 N84-18045
Fusion reactors: Physics and technology [DE83-017148] 08 p1232 N84-18055
Circular waveguide systems for electron-cyclotron-resonant heating of the tandem mirror experiment-upgrade [DE84-003739] 08 p1233 N84-18062
Design criteria and eigensequence plots for satellite computed tomography [NASA-CR-172787] 09 p1267 N84-18276
Double-injection, deep-impurity switch development [NASA-CR-168335] 09 p1306 N84-18536
Modeling of transient heat pipe operation [NASA-CR-173305] 09 p1312 N84-18575
Design optimization of marine reduction gears [AD-A136352] 09 p1325 N84-18656
Spaceborne Gravity Gradiometers. Part 3: Instrument status and prospects 09 p1335 N84-18719
A wind tunnel investigation to determine dominant forebody strake design characteristics for an F-15 equipped with conformal fuel tanks [AD-A136912] 10 p1421 N84-19292
Superfluid Helium Cryostat for Space Utilization (CRHESUS): Development and test overview 10 p1442 N84-19420
Loop gain and circuit parameters for residual carrier tracking in the advanced DSN block V receiver 10 p1474 N84-19625
Data transmission at 1200 Baud in mobile or fixed radio links with interchannel interferences 10 p1478 N84-19655
Design of receiver transmitters for use in multiple access networks 10 p1478 N84-19656
A conceptual design study for the secondary mirror drive of the shuttle infrared telescope facility (SIRTF) [NASA-CR-166562] 10 p1501 N84-19813
The Shock and Vibration Digest, volume 15, no. 10 [AD-A136898] 10 p1506 N84-19855
Shock and seismic response spectra in design problems 10 p1506 N84-19856
AVRADCOM research helicopter vibration 10 p1507 N84-19867
A testing machine for statistical analysis of small imperfect shells, part 1 [VTH-LR-357-PT-1] 10 p1518 N84-19938
Explaining complex engineered devices [AD-A136790] 10 p1554 N84-20186
Space reactor shielding: An assessment of the technology [DE84-003319] 10 p1577 N84-20335
Implications of control technology on aircraft design 11 p1615 N84-20573
Applications of model structure determination to flight test data 11 p1616 N84-20576
Algorithms for output feedback, multiple-model, and decentralized control problems 11 p1617 N84-20583
Continuing design, review and analysis work for the Sierra Cooperative Pilot Project [PB84-143627] 11 p1688 N84-21012
A new engineering approach for cable in fire situations using halogenated polymers 11 p1726 N84-21259
Characteristics of heat and flame resistant optical fiber cables 11 p1726 N84-21260
Circuit transmission integrity of plenum cables in a developing fire scenario 11 p1726 N84-21262
Prospects of the surfatron laser plasma accelerator [DE84-005463] 11 p1738 N84-21336
Development of the parachute recovery system for the LBRV-2 reentry vehicle [DE84-001540] 12 p1766 N84-21518
Design modifications on Venera-15, -16 12 p1775 N84-21579
Study on synthesis and characterization of large space systems, phase 2. Part 2: Proposals for additions, modifications and new analytical methods, volume 1 [ESA-CR(P)-1779-VOL-3] 12 p1780 N84-21611
Study on synthesis and characterization of large space systems, phase 2. Part 1: Assessment of design verification analytical methods. Volume 1: Mechanical design [ESA-CR(P)-1779-VOL-1] 12 p1782 N84-21624
Study on synthesis and characterization of large space systems, phase 2. Part 1: Assessment of design verification analytical methods. Volume 2: Thermal design [ESA-CR(P)-1779-VOL-2] 12 p1782 N84-21625
Modeling antennas near to and penetrating a lossy interface [DE84-004785] 12 p1808 N84-21786
The 100 GHz, 1 MW, CW gyrotron study program [DE84-005751] 12 p1813 N84-21819
Compact gas insulated transformer [DE84-006426] 12 p1814 N84-21822
Solid modelling in the Department of Energy 12 p1870 N84-22188
Data engineering systems: Computerized modeling and data bank capabilities for engineering analysis 12 p1873 N84-22203
Mathematical synthesization of complex structures 12 p1876 N84-22224
A candidate programming language [AD-A138433] 12 p1883 N84-22274
Use of shape-preserving interpolation methods in surface modeling [DE83-012708] 12 p1895 N84-22343
A 650 mm long liquid hydrogen target for use in a high intensity electron beam [DE84-007086] 12 p1902 N84-22389
Integrated-optical approaches to matrix multiplication 12 p1906 N84-22418
Computerized static firing analysis techniques of solid propellant rocket motors 13 p1944 N84-22641
60 GHz gyrotron development program [DE84-006606] 13 p1987 N84-22899
The synthesis and validation of experimental VLSI design using decoupled behavioral, structural and physical specifications 13 p1987 N84-22902
State space method for optimal design of shock absorbers with floating boundaries 13 p1998 N84-22966
A 37.5-kW point design comparison of the nickel-cadmium battery, bipolar nickel-hydrogen battery, and regenerative hydrogen-oxygen fuel cell energy storage subsystems for low Earth orbit [NASA-TM-83651] 13 p2008 N84-23022
Advanced designs for IPV nickel-hydrogen cells [NASA-TM-83643] 13 p2008 N84-23025
The representation and synthesis of design specifications for distributed software systems 13 p2030 N84-23163
Design and fabrication of a surface conversion negative ion source and an 80 keV pre-accelerator [DE84-006753] 13 p2045 N84-23269
RFQ development at LBL [DE84-006762] 13 p2045 N84-23271
Wind abrasion on Venus: A means for experimental investigations 13 p2076 N84-23455
Contingency power concepts for helicopter turboshaft engine [NASA-TM-83679] 14 p2109 N84-23648
New developments in science, technology described. Specialized GEO-20 minicomputer system 14 p2136 N84-23603
First infrared radiation detector 14 p2136 N84-23605
Experimental design: Review and comment [AD-A139268] 14 p2218 N84-24309
Design and robustness analysis of reduced order controllers for large flexible space vehicles 15 p2269 N84-24623
Design of a robust missile controller by vector performance optimization [DFVLR-FB-84-05] 15 p2280 N84-24694
Design and analysis of Coordinated Bank-To-Turn (CBTT) autopilots for Bank-To-Turn (BTT) missiles [AD-A140103] 15 p2280 N84-24698
Industrial applications for plasma torches [SNIAS-832-430-101] 15 p2305 N84-24829
Reliability-based design principle of composite materials with failure probability as a statistic 15 p2309 N84-24851
The conceptual design of mechanisms and mechanical systems 15 p2311 N84-24869
A designer's perception of computer-aided design 15 p2312 N84-24871
Integrated analysis and design for multi-level performance criteria 15 p2314 N84-24885
Design and calibration of a CW coherent laser radar [FOA-C-30345-E1] 15 p2320 N84-24930
Fundamental mode rectangular waveguide system for Electron-Cyclotron Resonant Heating (ECRH) for tandem mirror experiment-upgrade (TMX-U) [DE84-009085] 15 p2322 N84-24940
Design considerations for a monolithic, GaAs, dual-mode, QPSK/QASK, high-throughput rate transceiver [NASA-CR-173560] 15 p2327 N84-24974
Digital microwave system design guide [AD-A139736] 15 p2329 N84-24982
The 18th Aerospace Mechanisms Symposium [NASA-CP-2311] 15 p2346 N84-25078
Actuator development for the Instrument Pointing System (IPS) 15 p2347 N84-25080
A passively controlled appendage deployment system for the San Marco D/L spacecraft 15 p2347 N84-25081
The electron Echo 6 mechanical deployment systems 15 p2348 N84-25094
Examination of the final design of the rotor blades GROWIAN 1 [BMFT-FB-T-83-308] 15 p2362 N84-25174
The hierarchical specification and mechanical verification of the SIFT design 15 p2386 N84-25310
Development of a solid-state circuit breaker concept [DE84-009110] 15 p2414 N84-25493
System/battery design interaction for a lithium-metal sulfide van battery [DE84-007274] 15 p2421 N84-25537
Special Course on V/STOL Aerodynamics [AGARD-R-710] 16 p2436 N84-25625
Aero/thermodynamic and acoustic considerations in the design of test-beds for turbojets and turbofans 16 p2452 N84-25725
Technology for large space systems: A bibliography with indexes [NASA-SP-7046(10)] 16 p2454 N84-25736
Innovative structures for space applications [GAC-19-1563] 16 p2458 N84-25757
Determination of the stable operating conditions of an axial flow compressor 16 p2490 N84-25971
Factors that affect the fatigue strength of power transmission shafting [NASA-TM-83608] 16 p2498 N84-26029
A proportional piezoelectric electropneumatic servovalve design [AD-A140224] 16 p2499 N84-26031
Unified analytical kinematic analysis and synthesis of spatial mechanisms 16 p2501 N84-26049
Development of an evaluation methodology for passive solar design tools 16 p2516 N84-26148
Space systems environmental interactions technology program [AD-P002125] 16 p2525 N84-26211
Definition and design of spaceborne lidar instruments 16 p2529 N84-26240
Transponder optimization by computer simulation [MBB-UR-617-83-O] 16 p2563 N84-26445
Optical and human performance evaluation of HUD (Head-Up Display) systems design [AD-A140601] 17 p2568 N84-26587
Overview of HUD (Head-Up Display) optical designs [AD-P003157] 17 p2568 N84-26588

Aerodynamic design using numerical optimization
[NASA-TM-85550] 17 p2599 N84-26661
Design study for a low density wind tunnel
[INPE-3072-TDL/160] 17 p2610 N84-26707
Research issues in training device design: The organization of a data base
[AD-A140815] 17 p2611 N84-26710
Analysis of operation of frequency synthesizer of television receiver with micro-electronic computer in a control circuit 17 p2632 N84-26840
Analysis of housekeeping radiolinks satellite/ground station
[INPE-3097-NTE/217] 17 p2652 N84-26957
Reference flat pulse generator
[PB84-162163] 17 p2672 N84-27030
Design considerations of a proposed UK VHF radar 17 p2692 N84-27142
Design considerations for high-power VHF radar transceivers (keynote paper) 17 p2692 N84-27143
Design consideretions for high-power VHF radar transceivers: Distributed versus single large tranamitter 17 p2692 N84-27144
Assessment of techniques for evaluating computer systems for Federal Agency procurements
[PB84-176494] 17 p2756 N84-27496
Advanced aerodynamics. Selected NASA research
[NASA-CP-2206] 18 p2783 N84-27660
Status of advanced airfoil tests in the Langley 0.3-meter transonic cryogenic tunnel 18 p2783 N84-27664
EET theoretical design techniques 18 p2784 N84-27666
Two-dimensional aerodynamic characteristics of an airfoil designed for two
[NASA-TP-1965] 18 p2788 N84-27694
Development situation for guiding systems 18 p2797 N84-27747
A study of space station needs, attributes and architectural options. Volume 1: Executive summary
[NASA-CR-173705] 18 p2805 N84-27803
Space station needs, attributes and architectural options. Volume 4, task 2 and 3: Mission implementation and cost
[NASA-CR-173715] 18 p2806 N84-27813
An investigation into polymer design and synthesis for infrared energy absorption
[AD-A141265] 18 p2818 N84-27895
High-resistance measuring standards of electrical resistance 18 p2826 N84-27939
Performance of the Lester battery charger in electric vehicles
[NASA-CR-173726] 18 p2833 N84-27982
Advanced application of the printed circuit board testability design and rating system
[AD-A141147] 18 p2834 N84-27989
Design considerations for a HE-3 refrigerator for space applications
[NASA-TM-85973] 18 p2836 N84-28001
Astronomical Microdensitometry Conference
[NASA-CP-2317] 18 p2839 N84-28020
Safety-related requirements for photovoltaic modules and arrays
[NASA-CR-173747] 18 p2868 N84-28208
Summary of photovoltaic system performance models
[NASA-CR-173737] 18 p2870 N84-28220
On solar thermal electric power capacity sizing 18 p2872 N84-28236
Recent developments: PKI square dish for the Soleras Project 18 p2873 N84-28237
Continuing research at Solar Steam, Incorporated 18 p2873 N84-28238
SPIKE-2: A practical Stirling engine for kilowatt level solar power 18 p2873 N84-28239
United Stirling's solar engine development: The background for the Vanguard engine 18 p2873 N84-28242
Testing of the United Stirling 4-95 solar Stirling engine on test bed concentrator 18 p2873 N84-28243
Operational experience from solar thermal energy projects 18 p2874 N84-28251
Implementation and performance of algorithms on a vector calculator
[SNIAS-832-111-104] 18 p2920 N84-28519
Hybrid vehicle assessment. Phase 1: Petroleum savings analysis
[NASA-CR-173741] 18 p2947 N84-28682
Configuration design studies and wind tunnel tests of an energy efficient transport with a high-aspect-ratio supercritical wing
[NASA-CR-3524] 19 p2955 N84-28727
Results of design studies and wind tunnel tests of high-aspect-ratio supercritical wings for an energy efficient transport
[NASA-CR-159332] 19 p2956 N84-28735
Study of aerodynamic technology for single-cruise engine V/STOL fighter/attack aircraft
[NASA-CR-166271] 19 p2956 N84-28737
Computer program documentation for a subcritical wing design code using higher order far-field drag minimization
[NASA-CR-3457] 19 p2957 N84-28740
A preliminary design study on an acoustic muffler for the laminar flow transition research apparatus
[NASA-CR-172374] 19 p2958 N84-28748
Aerospace engineering design by systematic decomposition and multilevel optimization
[NASA-TM-85823] 19 p2962 N84-28775
Development of Integrated Programs for Aerospace-vechicle Design (IPAD). IPAD user requirements: Implementation (first-level IPAD)
[NASA-CR-162713] 19 p2963 N84-28776
Design of incident field B-dot sensor for the nose boom of NASA F-106B aircraft
[AD-A141765] 19 p2964 N84-28787
Interactive systems design and synthesis of future spacecraft concepts
[NASA-TM-86254] 19 p2981 N84-28893
Conceptual design of a mobile remote manipulator system 19 p2982 N84-28894
Analysis of SSME HPOTP rotordynamics subsynchronous whirl
[NASA-CR-171094] 19 p2983 N84-28900
Polymeric web lens evaluation
[DE84-010108] 19 p3000 N84-29013
Precision manipulator heating and cooling apparatus for use in UHV systems with sample transfer capability
[NASA-CASE-LAR-13040-1] 19 p3026 N84-29191
The initial mechanical design of hot gas turbine blading using limited information
[PNR-90183] 19 p3032 N84-29234
Optimal design of GaAs-based concentrator space solar cells for 100 AMO, 80 deg C operation 19 p3044 N84-29312
Research directions and progress in SERI advanced high efficiency concepts program 19 p3046 N84-29325
Plasmon device design: Conversion from surface to junction plasmons with grating-couplers 19 p3047 N84-29330
Preliminary concept of a 100-kilowatt miniaturized Cassegrainian concentrator solar array 19 p3047 N84-29332
Performance measurement of low concentration ratio solar array for space application 19 p3047 N84-29333
Preflight study of San Marco D/L GaAs solar cell panels 19 p3047 N84-29334
Preliminary space station solar array structural design study 19 p3047 N84-29335
Synthesis of major economic studies of residential photovoltaics
[NASA-CR-173766] 19 p3049 N84-29349
Software reliability: Additional investigations into modeling with replicated experiments
[NASA-CR-172378] 19 p3074 N84-29502
Acoustic design criteria and validation 19 p3096 N84-29663
Noise reduction experience at Hughes Helicopter, Inc. 19 p3096 N84-29666
NASA/Army supported noise source/noise reduction programs at Langley 19 p3097 N84-29669
Shuttle orbiter main propulsion system hardware development and certification for flight 20 p3135 N84-29907
An experimental study of helical guide-type rotating heat pipe 20 p3169 N84-30123
Propagation loss in electrostatically variable SAW delay lines
[AD-A142433] 20 p3178 N84-30183
Testament of general boundary conditions and point-wise state variable constraints in optimum design for static and dynamic response
[PB84-192749] 20 p3204 N84-30356
LANDSAT-4 system description 20 p3205 N84-30361
Multispectral Scanner (MSS) instrument description 20 p3205 N84-30362
An overview of LANDSAT-4 and the Thematic Mapper 20 p3206 N84-30364
Thematic Mapper sensor characteristics 20 p3206 N84-30365
Speculations on the future of test design
[AD-A142662] 20 p3263 N84-30699
Some design guidelines and discrete-time adaptive controllers
[NASA-CR-173800] 20 p3278 N84-30808
New directions in linear accelerators
[DE84-011412] 20 p3294 N84-30911
Software modifications to the Demonstration Advanced Avionics Systems (DAAS)
[NASA-TM-85942] 21 p3327 N84-31105
Wing design for minimum drag with practical constraints 21 p3327 N84-31109
Achieving the benefits of modular avionics design
[AD-P003562] 21 p3336 N84-31167
Application of TOS/AMS to TDRS E and F
[NASA-CR-171124] 21 p3346 N84-31225
Helium thrustor propulsion system for precise attitude control and drag compensation of the gravity Probe-B satellite 21 p3349 N84-31242
Digital control system for space structural dampers
[NASA-CR-173867] 21 p3353 N84-31267
Preliminary engineering report for design of a subscale ejector/diffuser system for high expansion ratio space engine testing
[NASA-CR-171137] 21 p3354 N84-31273
Flight service evaluation of two aluminum-brazed titanium spoilers
[NASA-CR-172371] 21 p3364 N84-31343
Reflector antennas with low sidelobes, low cross polarization, and high aperture efficiency
[NASA-CR-174670] 21 p3383 N84-31464
Operational parameters of a 2.0-MeV RFQ linac
[DE84-011368] 21 p3387 N84-31498
Synthesis of MIG-type electron guns for gyrotrons
[INPE-3191-PRE/555] 21 p3391 N84-31517
Soft X-ray laser experiments at Norvette Laser Facility
[DE84-012594] 21 p3410 N84-31627
Double arch mirror study. Part 1: Preliminary engineering report
[NASA-CR-166589-PT-1] 21 p3412 N84-31634
Positive displacement compounding of a heavy duty diesel engine
[NASA-CR-168286] 21 p3413 N84-31641
The changes in the compressive and tensile yield strengths during uniaxial cyclic loading 21 p3418 N84-31674
Conceptual design of an electrofluid dynamic wind energy system
[DE84-004512] 21 p3435 N84-31795
Marine Seismic System (MSS) deployment. Phase 5: An investigation of techniques and deployment scenarios for installation of triaxial seismometer in a borehole in the deep ocean
[AD-A142873] 21 p3444 N84-31850
Fault tolerant software modules for SIFT
[NASA-CR-165874] 21 p3463 N84-31955
The surface generation using weighted splines
[INPE-3160-PRE/534] 21 p3470 N84-31994
Future accelerators using micro-fabrication technology
[DE84-002692] 21 p3496 N84-32157
Pulsed high-current source of negatively charged hydrogen ions
[DE84-012989] 21 p3496 N84-32158
Theoretical design and analysis of the layered synthetic microstructure optic for the dual path X-ray telescope
[NASA-CR-171133] 21 p3498 N84-32168
Operation of electric vehicles in the US Department of Energy test program
[DE84-011703] 21 p3521 N84-32308
Energy efficient engine component development and integration program
[NASA-CR-173884] 22 p3536 N84-32389
A high energy stage for the National Space Transporation System
[NASA-TM-83795] 22 p3540 N84-32411
Preliminary design of a 10-kW thermophotovoltaic system for space applications
[NASA-TM-83768] 22 p3543 N84-32427
Advancement of developmental technology for pulse combustion applications
[PB84-215268] 22 p3564 N84-32576
Magnetic refrigeration development 22 p3573 N84-32626
Proceedings of the Flat-Plate Solar Array Project Research Forum on the Design of Flat-Plate Photovoltaic Arrays for Central Stations
[NASA-CR-173918] 22 p3582 N84-32663
Source-circuit design with multiple photovoltaic manufacturers 22 p3582 N84-32685
Hot-spot investigations of utility scale panel configurations 22 p3582 N84-32687
Design and selection of bypass diodes 22 p3582 N84-32688
Plasma switch development
[AD-A143233] 22 p3586 N84-32711
Characteristics and capacities of the NASA Lewis Research Center high precision 6.7- by 6.7-m planar near-field scanner
[NASA-TM-83785] 22 p3598 N84-32789
New machines for grinding, facetting and profiling hard materials
[CSIR-TRANS-1750] 22 p3603 N84-32821
Design of a high-performance slide and drive system for a small precision machining research lathe
[DE84-011059] 22 p3606 N84-32845
Design spectrum analysis in NASTRAN 22 p3609 N84-32870

Research on output feedback control of systems with ill-conditioned dynamics
[NASA-CR-173921] 22 p3639 N84-33071
Sensor correlation and data fusion theory
[AD-A143587] 22 p3649 N84-33133
Custom integrated circuits 22 p3684 N84-33361
A study of the cross flow fan
23 p3688 N84-33372
TRANSEP: A program for high lift separated flow about airfoils
[NASA-CR-3376] 23 p3690 N84-33386
Analysis and selection of a remote docking simulation visual display system
[NASA-CR-171148] 23 p3698 N84-33432
Advanced X-ray Astrophysics Facility (AXAF)
[NASA-CR-171156] 23 p3698 N84-33434
Research pressure instrumentation for NASA Space Shuttle main engine
[NASA-CR-173932] 23 p3702 N84-33463
Recycling conform design 23 p3705 N84-33466
Criteria for nearly omnidirectional radiation patterns for printed antennas
[AD-A143662] 23 p3731 N84-33646
Performance and safety to NAVSEA instruction 9310.1A of lithium-thionyl chloride reserve batteries
23 p3737 N84-33679
Low frequency ac waveform generator
[DE84-014310] 23 p3743 N84-33726
Solid oxide fuel cell having monolithic core
[DE84-014659] 23 p3743 N84-33728
Fuel cell stack with internal manifolds for reactant gases
[DE84-014662] 23 p3743 N84-33729
Solid oxide fuel cell having compound cross flow gas patterns
[DE84-014666] 23 p3743 N84-33730
Design, analysis and test verification of advanced encapsulation systems
[NASA-CR-173955] 23 p3787 N84-34016
Telemetry bandwidth selection for infrared surveillance sensors
[AD-A144251] 24 p3861 N84-34466
Experimental study of stress-deformed state of three-layer shells made with anisotropic high-module composite materials 24 p3868 N84-34514
An anisotropic lens for launching TEM waves on a conducting circular conical system
[AD-A144140] 24 p3893 N84-34656
Conceptual design of a hybrid Ge:Ga
[NASA-CR-166605] 24 p3902 N84-34708
Preliminary design of a reuseable PPMHD (Pulsed Plasma MHD) power supply test bed facility
[AD-A144147] 24 p3965 N84-35108
Viking orbiter and its Mariner inheritance
24 p3991 N84-35254

DESIGN OF EXPERIMENTS
U EXPERIMENT DESIGN

DESIGN TO COST
Engine affordability — aircraft engines
[PNR-90178] 13 p1933 N84-22574
Profitability improvement of projects by early consideration of life cycle cost reduction
[MBB-UR-620-83-G] 14 p2247 N84-24495
A comparative evaluation of new low-cost array field designs for grid-connected photovoltaic systems
[DE84-010978] 21 p3435 N84-31797

DESORPTION
Photon-stimulated ion desorption from condensed CO and N2
[AD-A133925] 05 p0647 N84-14254
Study of field adsorption using pulsed-laser atom-probe field-ion microscopy
[DE84-002280] 05 p0687 N84-14513
Promoter modifications of catalytic activity and selectivity
[DE84-003179] 07 p0970 N84-16287
Comparison of photon stimulated dissociation of gas phase, solid and chemisorbed water
[AD-A134986] 08 p1125 N84-17314
The role of phonons in the excitation and relaxation of adspecies
[AD-A137066] 10 p1455 N84-19504
Experimental study of impurity production in the Tokapole II Tokamak
[DE84-009659] 19 p3109 N84-29754
Method of enhancing selective isotope desorption from metals
[DE84-011031] 20 p3156 N84-30044
Chemical attenuation rates, coefficients, and constants in leachate migration. Volume 1: A critical review
[DE84-009432] 20 p3238 N84-30557
Negative ion formation due to hydrogen plasma surface interaction
[DE84-012259] 22 p3659 N84-33192
Molecule microscopy 22 p3681 N84-33337
Extensions of electron stimulated desorption measurements. Investigation of gas adsorption on Cu layers deposited on a tungsten (110) surface
[AD-A143779] 23 p3714 N84-33539
Study of outgassing and decomposition of Space Shuttle heat protection tiles, fillers and adhesive
[NASA-CR-173974] 24 p3860 N84-34465
Liquid suspensions of reversible metal hybrides
[DE84-014358] 24 p3881 N84-34586
Laser control of chemical reactions
[AD-A144359] 24 p3908 N84-34758

DESPINNING
U SPIN REDUCTION

DESTABILIZATION
Interaction of a stream of dielectric spheres in an electric field in a high vacuum
[DE83-013695] 04 p0600 N84-13958

DESTRUCTION
Grain destruction in interstellar shocks
18 p2569 N84-26487
Grain destruction in interstellar shocks
18 p2947 N84-28685
Microscopic studies of accelerated destruction of plastic contact in kinematic pairs from different metals
[ISSN-0208-5658] 23 p3716 N84-33554

DESTRUCTIVE TESTS
Metallurgical and mechanical tests of materials
[AD-A136347] 09 p1327 N84-18666
A testing machine for statistical analysis of small imperfect shells, part 1
[VTH-LR-357-PT-1] 10 p1518 N84-19938
Assessment of microdamage development during tensile loading of graphite/epoxy laminates
[AD-A139128] 14 p2119 N84-23701
Thick-wall Kevlar 49/epoxy pressure vessels
[DE84-003102] 14 p2120 N84-23707

DESULFURIZING
Surface studies of WO3/Al2O3 and Ni/W/Al2O3 catalysts
[DE84-000930] 05 p0651 N84-14283
Hydrotreating of coal derived liquids
[BMFT-FB-T-83-175] 07 p0973 N84-16304
MoO3, ex MoS2, with further processing of the metal-bearing waste sulfuric acid generated in the process
[BMFT-FB-T-83-297] 15 p2366 N84-25196
Desulfurization of hot reducing gas by means of metal oxides in a fixed bed reactor
[BMFT-FB-T-84-015] 16 p2483 N84-25783
Studies involving high temperature desulfurization/regeneration reactions of metal oxides for fuel cell development
[DE84-003096] 18 p2876 N84-28261

DESYNCHRONIZATION (BIOLOGY)
Biological clocks and shift work scheduling
[GPO-21-747] 03 p0415 N84-12713
Sustained Intensive Air Operations: Physiological and Performance Aspects
[AGARD-CP-338] 11 p1696 N84-21062
Circadian rhythms and sustained operations
11 p1697 N84-21067

DETECTION
NT AIRCRAFT DETECTION
NT CORRELATION DETECTION
NT FOREST FIRE DETECTION
NT HAZE DETECTION
NT RADAR DETECTION
NT REMOTE SENSING
NT SIGNAL DETECTION
NT TARGET RECOGNITION
NT ULTRASONIC FLAW DETECTION
Distributed detection of signal waveforms in additive Gaussian observation noise
[AD-A131016] 01 p0066 N84-10434
Suboptimal threshold detection in narrowband non-Gaussian noise
[AD-A129629] 01 p0071 N84-10464
Laser chromatography (gaseous electrophoresis) of chemical agents
[AD-A130948] 01 p0087 N84-10565
Sensor correlation and data fusion theory
[AD-A131510] 01 p0134 N84-10875
New method in elementary particle detection
[AD-A131238] 01 p0142 N84-10932
Applications of Hilbert space theory to optimal and adaptive space-time processing
[AD-A131401] 02 p0286 N84-11876
Detection of cavities under concrete pavement
[AD-A131851] 03 p0358 N84-12331
Development of a continuous monitor for detection of toxic organic compounds
[PB83-234922] 03 p0378 N84-12461
Variations in task and the ideal observer
[DE83-015394] 03 p0416 N84-12723
Detection of closed internal fatigue cracks
[DE83-017686] 04 p0549 N84-13620
Cavity detection and delineation research. Report 5: Electromagnetic (Radar) techniques applied to cavity detection
[AD-A132923] 05 p0670 N84-14407
The detectability of repetitive, periodic impulses
[AD-A132744] 05 p0713 N84-14675
Optimum filtering required for broadband detection of Gaussian processes
[AD-A133721] 05 p0735 N84-14823
Split-Stirling, linear-resonant, cryogenic refrigerators for detector cooling 06 p0819 N84-15342
Adaptive protection of detecion systems operating by spread spectrum 06 p0868 N84-15652
Detection of latent atherosclerotic stenosing lesions to great vessels of the head in flight personnel
07 p1046 N84-16787
Quantization and detection in signal processing
[AD-A136560] 09 p1299 N84-18494
A statistical study of hardware related software errors in MVS
[AD-A135726] 09 p1368 N84-18931
Calculation of cumulative distributions and detection probabilities in communications and optics
[AD-A136561] 09 p1376 N84-18989
Optimally robust redundancy relations for failure detection in uncertain systems
[NASA-CR-173166] 09 p1377 N84-18997
Average run lengths of an optimal method of detecting a change in distribution
[AD-A136385] 09 p1381 N84-19019
Detection of electromagnetic radiation leakage through small structural openings
[AD-A137407] 10 p1479 N84-19667
Open water and thin ice detection in the Arctic marginal ice zone using reflectometer signal analysis
[AD-A136043] 10 p1543 N84-20110
Effectiveness of a device for detection of bacteriological aerosols; improvements in standardization and sensitivity in the laboratory
[FOA-C-40175-B2] 10 p1546 N84-20132
Pattern-directed attention in uncertain frequency detection
[AD-A135905] 10 p1547 N84-20142
A new application of proximity probe measurement on rolling element bearings
[AD-P002679] 11 p1658 N84-20616
Laser detection of chemical agents
[AD-A138122] 12 p1820 N84-21865
NOAA program for data analysis for the first detection of CO/sub 2 induced-climate change
[DE84-006509] 12 p1861 N84-22125
Optimal maneuver detection and estimation in multiobject tracking
[AD-P002899] 13 p1981 N84-22858
Detection of dotted forms in a structured visual noise environment
[AD-A138653] 13 p2022 N84-23108
Compliance monitoring of purgeable organics with mass spectrometry
[PB84-157916] 14 p2124 N84-23733
Panoramic sky monitor (PANSKY)
[AD-A139440] 14 p2176 N84-24035
The detection of nonplanar surfaces in visual space
[AD-A138761] 14 p2185 N84-24093
Sensor failure detection for jet engines using analytical redundance
[NASA-TM-83695] 15 p2262 N84-24585
A multivariate autoregressive display monitoring model
[NLR-MP-83033-U] 15 p2364 N84-25296
Mass spectrometer for simultaneous detection of ions over wide range of mass 15 p2430 N84-25592
Detection of severe weather by FAA radars
[FAA-RD-79-91] 17 p2733 N84-27372
Transient evoked potential in a critical event detection task
[AD-A141335] 18 p2900 N84-28397
Approximating the probabilities of detecting and of hitting targets and the probability distribution of the number of trials along the visible portions of curves in the plane subject to a Poisson shadowing process
[AD-A141327] 18 p2927 N84-28563
Organic semiconductor vapor sensing method
[AD-D011070] 19 p3017 N84-29127
Extended laser sensor
[AD-D011011] 19 p3029 N84-29214
Runtime detection and description of deadness errors in Ada tasking
[AD-A142239] 19 p3079 N84-29535
Detection of randomly occuring signals using spectra and frequency domain kurtosis estimates
[AD-A141461] 19 p3084 N84-29573
Radiation upset threshold detector apparatus
[AD-D011030] 19 p3111 N84-29769
Void-particulate director
[DE84-011300] 20 p3190 N84-30262

Plasma discharge elemental detector for a mass spectrometer
[DE84-011078] 21 p3406 N84-31604
Portable electromagnetic flaw detector for metal products 23 p3706 N84-33493
New method in elementary particle detection
[AD-A144057] 23 p3822 N84-34240
Synthesis of monomers for the preparation of regiospecifically substituted poly(phenylacetylenes) as potential chemical detectors
[AD-A144690] 24 p3889 N84-34628
Measurement of small elastic anisotropy in solids using laser induced ultrasonic pulses
[AD-A144296] 24 p3912 N84-34775
Two approaches to the instrumental estimation of detectability 24 p3915 N84-34789

DETECTORS
Suboptimal threshold detection in narrowband non-Gaussian noise
[AD-A129629] 01 p0071 N84-10464
Detectors for optical communications: A review 04 p0518 N84-13404
Fast optical position-sensitive detector for McPherson ESCA-36
[AD-A132606] 05 p0685 N84-14501
Flow improvements in the circuit of the Langley 4- by 7-meter tunnel
[NASA-TM-85662] 06 p0781 N84-15117
Photothermal spectroscopy using a pyroelectric thin film detector
[AD-A134291] 07 p0969 N84-16281
Development of innovative millimeter-wave broadband mixers
[AD-A136134] 09 p1310 N84-18562
An automated system for characterizing laser pulses
[AD-A136560] 13 p1995 N84-22945
Logic-type Schmitt circuit using multi-valued gates
[AD-P002353] 14 p2192 N84-24144
Application of semi-empirical Ge(Li) detector calibration technique for large volume samples
[DE83-012601] 16 p2494 N84-26004
Theoretical and experimental studies of error in square-law detector circuits
[NASA-TM-86307] 23 p3741 N84-33714
Means and method for calibrating a photon detector utilizing electron-photon coincidence
[NASA-CASE-NPO-15644-1] 23 p3749 N84-33767

DETERGENTS
Photophysical and photochemical properties of coumarin laser dyes in amphiphilic media
[AD-A136361] 09 p1321 N84-18630

DETERIORATION
Long term evaluation of the effects of shale oil produced JP-4 on aircraft construction materials
[AD-A131665] 03 p0331 N84-12161
Cumulative damage in components of steel structures under cyclic inelastic loading 03 p0391 N84-12550
Elements of an iceberg deterioration model
[AD-A133223] 07 p1041 N84-16749
Priorities for detailed quality assessments of the National Defense Stockpile nonfuel materials
[NMAB-403] 13 p2006 N84-23011
In-situ measurements of bronze deterioration
[DE84-007300] 15 p2299 N84-24796
Safety recommendations A-84-1 through -3 16 p2443 N84-25673

DETERMINANTS
Research in the areas of stochastic control under partial observations, nonlinear filtering, large deviations for nearly deterministic processes, and transition and invariant densities for nearly deterministic diffusions
[AD-A142191] 19 p3115 N84-29791
Determinants connected with a trace on a Banach algebra 22 p3635 N84-33036
Bounded Hessian functions 22 p3636 N84-33048
Managerial and organizational determinants of efficiency in research teams (social sciences)
[AD-A144153] 24 p3968 N84-35125

DETERMINATION
U MEASUREMENT

DETONABLE GAS MIXTURES
Hydrogen-air detonations
[DE83-009289] 03 p0350 N84-12278
Unconfined gas explosions — conferences
[VKI-LS-1983-02] 06 p0835 N84-15438
Simulation of the ignition of a mixture of hydrogen and oxygen
[PML-1983-34] 12 p1790 N84-21676
High speed photography and pulsed laser holography for diagnostic investigations of mixture formation and vibration in reciprocating engines
[DFVLR-MITT-83-18] 12 p1819 N84-21857

DETONATION
Raman spectroscopies in shock-compressed materials
[DE83-014170] 02 p0190 N84-11236
A 2-dimensional numerical study of detonation propagation between munitions by means of shock initiation
[AD-A133680] 05 p0661 N84-14346
Radio-frequency detonation hazards: Multiple-transmission safety assessment of a detonator loop that may be resonant
[BBC-RD-1983/11] 05 p0666 N84-14380
Equation of state for the detonation products of several simple explosives
[DE83-017266] 06 p0813 N84-15290
Unconfined vapor cloud explosions: A review of recent theories and experiments 06 p0835 N84-15439
Vapor cloud explosion experiments 06 p0836 N84-15444
The relation between power and energy in the shock initiation of detonations. 1: Basic theoretical considerations and the effects of geometry
[AD-A133468] 06 p0844 N84-15505
Optical diagnostics for condensed-phase shock-compressed molecular systems
[DE84-001172] 06 p0845 N84-15510
Characterization of initiation and detonation by Lagrange gage techniques
[DE84-002462] 07 p0981 N84-16357
Frictional hot-spots and statistical crack mechanics
[DE84-003784] 09 p1290 N84-18423
Fundamental research on explosives
[DE84-001201] 09 p1290 N84-18425
Products from the detonation of trinitrotoluene in air and nitrogen
[AD-A137809] 11 p1639 N84-20713
Pulsed generation of singlet delta oxygen (O2(1 delta)) via ozone photolysis
[AD-A138195] 12 p1792 N84-21684
A summary of the mechanisms of delayed detonation 13 p1947 N84-22658
The onset of detonation behind incident shock waves in chlorine azide-argon mixtures 13 p1990 N84-22921
Are detonations steady?
[AD-P002975] 14 p2201 N84-24211
A numerical study of shock initiation of composition-b by high-speed impact of small steel projectiles
[AD-A139629] 15 p2303 N84-24821
Air blast loadings on building elements from detonating 8.4 Kg Comp high explosive charges
[FOA-C-20522-D4] 15 p2349 N84-25102
Detonation-and-flame arresters for gasoline-vapor recovery systems 15 p2431 N84-25600
Multipath pyrotechnic relay: Conception with numerical simulations and experimental validation
[SNIAS-832-422-101] 16 p2474 N84-25855
Nitramine propellant crack tip ignition and crack propagation of a burning sample under rapid pressurization
[AD-A141246] 18 p2811 N84-27848
Order of functioning
[AD-A141851] 19 p3001 N84-29022
Experimental facilities to study hydrogen combustion and detonation
[DE84-006998] 20 p3149 N84-29997
High performance Extrusion Cast Explosives (ECX)
[DE84-008244] 20 p3166 N84-30107
Energy release and fluid dynamics in multiphase systems
[AD-A142402] 20 p3184 N84-30228
Numerical simulations of the structure and propagation of self-sustained detonations
[AD-A142486] 20 p3184 N84-30230
Influence of diluents and inhibitors on detonations
[DE84-006300] 22 p3548 N84-32463
Detonation parameters for Australian high-explosives composition
[AD-A143655] 23 p3726 N84-33609
Deflagration to shock to detonation transition of energetic propellants
[AD-A144469] 24 p3890 N84-34632

DETONATION WAVES
Theoretical modeling of converging and diverging detonation waves in solid and gaseous explosives
[DE83-017300] 04 p0536 N84-13528
Lagrange gage studies of nonideal explosives containing NH-4NO-3
[AD-A132760] 05 p0661 N84-14347
Characterization of initiation and detonation by Lagrange gage techniques
[DE84-002462] 07 p0981 N84-16357
Structure and characteristics of heterogeneous detonation
[AD-A134492] 07 p1002 N84-16497
A computer study of detonation waves in dispersed powdered high explosives
[AD-A134226] 07 p1054 N84-16827
Investigation of the thermal initiation of detonation in nitromethane
[AD-A136211] 09 p1316 N84-18598
Reactive shock phenomena in condensed materials: Formulation of the problem and method of solution
[AD-A136514] 09 p1385 N84-19048
Investigation of detonation chains. Part 13: Continuous measurement of the detonation velocity of pressed TNT using an ultrahigh speed camera
[PML-1982-3] 12 p1814 N84-21825
Discrete charge diagnostics on Pre-DIRECT COURSE
[AD-A139073] 13 p1990 N84-22919
Near Chapman-Jouget detonations
[AD-P002974] 14 p2201 N84-24210
Are detonations steady?
[AD-P002975] 14 p2201 N84-24211
Numerical and analytical studies of steady detonation waves with expansion losses
[AD-A142601] 20 p3184 N84-30232
NASTRAN analysis comparison to shock tube tests used to simulate nuclear overpressures
[AD-A142290] 20 p3202 N84-30337
Airblast simulations using flux-corrected transport codes
[AD-A142820] 21 p3400 N84-31567

DETONATORS
Mercuric 5-nitrotetrazole, a possible replacement for lead azide in Australian ordnance. Part 1: An assessment of preparation methods
[MRL-R-901] 05 p0661 N84-14344
Series detonator initiation system
[AD-A138101] 12 p1811 N84-21809
Study of Deflagration-to-Detonation Transition (DDT) in the granular explosive, CP
[DE84-009500] 15 p2305 N84-24828
New developments in cylinder testing
[DE84-002782] 15 p2337 N84-25033
Annual meeting of the Pyrotechnics and Explosives Applications Section on the American Defense Preparedness Association
[AD-A143157] 21 p3373 N84-31406

DEUTERIDES
Neutron diffraction studies of some rare earth-transition metal deuterides
[AD-A140757] 17 p2764 N84-27557

DEUTERIUM
Novel neutralized-beam intense neutron source for fusion technology development
[DE83-014953] 01 p0144 N84-10949
Isotope dependence of the breakdown strength of gases
[DE83-017272] 03 p0373 N84-12430
Tokamak fusion reactors with less than full tritium breeding
[DE83-016711] 03 p0446 N84-12936
A laser-fusion rocket for interplanetary propulsion
[DE84-001238] 04 p0490 N84-13219
d-d Tokamak reactor assessment
[DE83-016127] 04 p0609 N84-14019
Non-LTE radiation from an argon seeded microballoon implosion 2
[AD-A133679] 05 p0749 N84-14919
Some issues related to evolution of planetary atmospheres 06 p0939 N84-16103
Gas box control system for tandem mirror experiment upgrade
[DE84-003245] 07 p1078 N84-17008
High-temperature deuterated lubricants: Additives, mechanisms, and methods
[AD-A138114] 12 p1801 N84-21743
Relativistic correlation theory of atomic structures
[DE84-006745] 14 p2230 N84-24372
Extraction of volume produced H(-) or D(-) ions from a sheet plasma 2
[IPPJ-666] 15 p2409 N84-25460
Interaction of the neutral deuterium flux with a field-reversed configuration
[DE84-007488] 16 p2559 N84-26415
Transport of deuterium, tritium and helium in a Tokamak
[REPT-84-150] 17 p2766 N84-27567
Electron excitation of vibrational states of D2 and H2 and detection of excited states by laser-induced fluorescence
[AD-A141038] 18 p2846 N84-28070
Operating conditions for the Hydrogen/Deuterium triplet lasers
[AD-A141388] 19 p3029 N84-29210
Method and source for producing a high concentration of positively charged molecular hydrogen or deuterium ions
[DE84-011030] 20 p3295 N84-30918

DEUTERIUM COMPOUNDS
NT DEUTERIDES
A novel 15.9-micron source
[DE83-015234] 02 p0227 N84-11490

Microstructural studies of hydrogen and deuterium in BCC refractory metals
[DE84-011506] 21 p3367 N84-31357
Experimental and model transport and diffusion studies in complex terrain with emphasis on tracer studies
[DE84-013076] 22 p3626 N84-32975

DEUTERIUM FLUORIDE LASERS
U DF LASERS

DEUTERONS
Fusion materials irradiation test facility test-cell instrumentation
[DE83-012823] 01 p0085 N84-10552
Dislocation/obstacle interactions during low-dose irradiation creep of nickel
[DE84-001416] 04 p0504 N84-13303
Macroscopic plasma behavior and charged particle acceleration in the plasma focus
10 p1581 N84-20363
Studies on ion beams produced in a plasma focus, part 2 10 p1582 N84-20364

DEVELOPING NATIONS
USSR report: Science and technology policy, no. 18
[JPRS-84484] 01 p0157 N84-11034
The socialist and developing countries: Technology transfer 01 p0157 N84-11035
Scientific, technical cooperation among CEMA member-countries urged 01 p0157 N84-11036
Information technology and development series. Volume 2: Informatics and industrial development. Proceedings of the International Conference on Policies for Information Processing for Developing Countries
[AD-A130796] 01 p0162 N84-11063
UNISPACE-82: Recommendations addressed to member states on the development of indigenous capabilities and follow-up actions for their implementation
[INPE-2915-PRE/427] 07 p1087 N84-17071
Producer gas: Another fuel for motor transport
[PB84-129774] 09 p1291 N84-18427
Pacific Basin Communications Study, volume 1
[NASA-CR-173173] 12 p1805 N84-21767
Licensing computer software: Basic considerations as to protection and licensing of computer software and its implications for developing countries
[PB84-150689] 12 p1886 N84-22295
Guidelines for software production in developed countries
[PB84-202795] 21 p3467 N84-31986

DEVELOPMENT
Flight testing and real time data processing for development and integration of weapon systems
24 p3850 N84-34415

DEVIATION
Secondary flow spanwise deviation model for the stators of NASA middle compressor stages
[NASA-CR-173360] 09 p1256 N84-18202
Causes and prevention of systematic deviations from true values of absorption coefficients measured in reverberation rooms
[NRC/CNR-TT-2080] 15 p2403 N84-25423

DEVITRIFICATION
U CRYSTALLIZATION

DEW
The role of vegetation in the low-level water budget in fog
[AD-A139099] 14 p2179 N84-24051

DEW POINT
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F. Cape Romanzof AFS, Alaska
[AD-A130206] 01 p0107 N84-10698
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F. Lemoore NAS, California
[AD-A130205] 01 p0108 N84-10699
Humidity measurement comparison tests: Dew point hygrometer versus wet bulb psychrometer
[PB83-237487] 04 p0539 N84-13546
Meteorological and climatological conditions affecting the vertical structure of visibility in Northern Germany
[AD-A139126] 14 p2179 N84-24052

DEWAR SYSTEMS
U CRYOGENIC EQUIPMENT

DEWETTING
U DRYING

DEXTRANS
Improved polymers for enhanced-oil-recovery synthesis and rheology
[DE83-017371] 04 p0507 N84-13324
Countercurrent distribution of biological cells
[NASA-CR-170958] 06 p0885 N84-15755

DF LASERS
Computer modeling of pulsed chemical lasers
[AD-A141889] 19 p3029 N84-29212

DIAGNOSIS
Evaluation of a laser-based photoacoustic spectrometer in measurement of stable-isotope ratios
[DE83-014628] 01 p0088 N84-10574
Method for assessing mental stress in operators
02 p0262 N84-11715
CSRL (Conceptual Structures Representation Language): A language for expert systems diagonsis
[AD-A131403] 02 p0272 N84-11782
Using structural and functional information in diagnostic design
[AD-A131859] 03 p0423 N84-12789
A performance-based technique for assessing equipment maintainability
[AD-A133516] 06 p0894 N84-15809
Techniques for sensor-based diagnosis
[AD-A133297] 06 p0896 N84-15814
Approach to real-time holography
[DE84-002779] 08 p1162 N84-17565
Comment on graphical methods for assessing logistic regression models by Landwehr, Pregibon and Shoemaker
[AD-A135684] 09 p1383 N84-19031
On system diagnosis with multivalued test outcomes
[AD-P002375] 14 p2195 N84-24166
GUIDON: A computer-aided instructional program
[AD-A139999] 15 p2383 N84-25293
Strategic explanations for a diagnostic consultation system
[AD-A140014] 15 p2396 N84-25371
Computer-aided analysis of atherosclerosis
15 p2431 N84-25598
Use of the Doppler ultrasound method to evaluate the rate of blood flow in children with patent ductus arteriosus
[ISSN-0208-5658] 19 p3064 N84-29441
Experimental and clinical research on the effectiveness of ultrasound in vascular surgery
[ISSN-0208-5658] 19 p3064 N84-29442
Electron beam diagnostic for the Los Alamos free electron laser oscillator experiment
[DE84-011348] 20 p3193 N84-30278
Proceedings of the 6th Annual Climate Diagnostics Workshop
[PB84-192418] 21 p3450 N84-31893

DIAGRAMS
NT CIRCUIT DIAGRAMS
NT CREEP DIAGRAMS
NT HERTZSPRUNG-RUSSELL DIAGRAM
NT NYQUIST DIAGRAM
NT PHASE DIAGRAMS
NT S-N DIAGRAMS
NT STRESS-STRAIN DIAGRAMS
Hazardous location identification by computer
[CSIR-TR-RF/6/81] 04 p0578 N84-13814
Review of the use of the thermodynamic diagram and its functions (with the application towards AFOS)
[PB84-120815] 09 p1350 N84-18822
PICTURE: An interactive tool for creating visual aids. Reference manual, version 2.0
[DE84-007447] 12 p1884 N84-22279
FLOCHT: A system of FORTRAN codes for computer drawn flow charts and diagrams
[DE84-007569] 15 p2393 N84-25362
The calculation of the radar vertical coverage diagram
[AD-A143647] 23 p3731 N84-33645
Alternative labelling schemes in electromagnetic topology
[AD-A144300] 24 p3954 N84-35037

DIALYSIS
NT ELECTRODIALYSIS

DIAMAGNETISM
Plasma confinement and interaction experiments — Active Magnetospheric Particle Tracers Explorers mission 05 p0641 N84-14218
A study of phase transitions
[AD-A136449] 09 p1395 N84-19108
Excitonic solids
[AD-A135972] 09 p1396 N84-19115
Filamentation in the plasma focus as a plasma Meissner effect 10 p1584 N84-20380
Research support for plasma diagnostics on Elmo Bumpy Torus - development of a multichannel Hall-probe based diamagnetic diagnostic instrument and observation and modeling of EBT electron rings
[DE84-008610] 18 p2933 N84-28600

DIAMINES
NT ETHYLENEDIAMINE
Synthesis of polyamides from diamines of the fluorene series
[NASA-TM-77398] 10 p1451 N84-19476
Fire resistant polymers based on 1-((dialkoxyphosphonyl)methyl)-2,4- and -2,6-diaminobenzenes
[NASA-CASE-ARC-11512-1] 11 p1637 N84-20702

DIAMOND WINGS
U LOW ASPECT RATIO WINGS
U SWEPT WINGS

DIAMONDS
The reciprocal influence of functional groups in substitution reactions on the diamond surface
[CSIR-TRANS-1685] 01 p0152 N84-11000
Investigation of the statistical mechanics of linear polymers for various physical conditions
[JUEL-1832] 03 p0357 N84-12324
Advantages of using diamond tools brazed under high vacuum
[CSIR-TRANS-1709] 06 p0813 N84-15293
Surface and near-surface analysis of diamond by RBS
06 p0814 N84-15302
Wheel efficiency in the diamond-spark erosion grinding of tungsten carbides
[CSIR-TRANS-1693] 08 p1140 N84-17418
Dressing methods for grinding wheels made of superhard abrasive materials
[CSIR-TRANS-1700] 08 p1141 N84-17419
On the use of diamond and cubical boron nitride abrasives in automatic honing applications
[CSIR-TRANS-1640] 08 p1141 N84-17420
The current status of diamond and cubic boron nitride composites 09 p1292 N84-18441
Precision machining application and technology: An overview and perspective
[AD-A135988] 09 p1390 N84-19075
Cluster calculation of electronic structure of the diamond (111) surface using the XAlpha-scattered wave method
[AD-A140486] 16 p2580 N84-26426
Improvement of surface planing with diamond tool
17 p2641 N84-26897
Mechanical interactions of rough surfaces
[DE84-008589] 20 p3198 N84-30311
New sapphire and ruby components and their manufacture using diamond abrasives
[CSIR-TRANS-1734] 21 p3375 N84-31419
Microtopography of micro-diamonds from sedimentary covers in the southwestern part of the Eastern European platform and a possible genetic interpretation
[CSIR-TRANS-1726] 21 p3443 N84-31842
X-ray diffraction study of the phase composition of the crystallization medium and inclusions in synthetic diamonds
[CSIR-TRANS-1723] 21 p3504 N84-32203
Metal coating of diamond abrasives (review of foreign patents)
[CSIR-TRANS-1740] 22 p3552 N84-32489
Pastes of superhard materials (review of inventions)
[CSIR-TRANS-1741] 22 p3552 N84-32491
Effect of formation conditions and contact zone structure on adhesion strength of carbide forming metal coatings on diamond
[CSIR-TRANS-1735] 22 p3552 N84-32492
Coatings on diamond and CBN abrasives (review of inventions)
[CSIR-TRANS-1742] 22 p3557 N84-32525
A diffusion mechanism in the catalytic conversion of carbonaceous materials into diamonds at high pressures
[CSIR-TRANS-1743] 22 p3557 N84-32526
Diamond synthesis from various graphites
[CSIR-TRANS-1749] 22 p3558 N84-32528
Forty years of development in diamond tools
[CSIR-TRANS-1730] 22 p3563 N84-32564
The octahedron-rhombododecahedron morphological series of synthetic diamond crystals
[CSIR-TRANS-1746] 22 p3661 N84-33205
Diamond surface: Atomic and electronic structure
[DE84-013518] 22 p3665 N84-33234
Effect of annealing under thermodynamically stable conditions on the formation and transformation of structural defects in diamond monocrystals
[CSIR-TRANS-1737] 23 p3829 N84-34268

DIAPHRAGMS (MECHANICS)
Optical methods of measuring loudspeaker diaphragm movement
[BBC-RD-1983/13] 04 p0517 N84-13396
Fluorinated polyurethanes
[AD-D011066] 19 p3000 N84-29011
Analytical and numerical study of the flow in a shock tube with an area change at the diaphragm section
[UTIAS-TN-255] 21 p3399 N84-31563
Free bulging of round diaphragm exposed to uniform pressure in state of creep
[BLL-M-35680-(5828.4)] 22 p3608 N84-32861
Frequency independent acoustic antenna
[AD-D011194] 24 p3963 N84-35093

DIATOMIC GASES
Propagation of sound through a gas with an over-population of excited vibrational states
[AD-A134181] 07 p1070 N84-16950
Freejets of rotationally relaxing diatomic gases
20 p3169 N84-30119

DIATOMIC MOLECULES
Radiation and laser potential of homo and heteronuclear rare-gas diatomic molecules
[AD-A130093] 01 p0141 N84-10929
Spectroscopic studies of lasing transitions in the diatomic mercury halides
[AD-A131486] 02 p0226 N84-11481
Calculating the probability of radiation from the dissociated states of diatomic molecules
[AD-A131069] 02 p0289 N84-11893
Experimental study of dissociative attachment in optically-pumped lithium molecules
[AD-A131601] 02 p0289 N84-11894
Vibrational relaxation of diatomic molecules in solids at low temperatures 10 p1559 N84-20217
The development of computer routines to perform a comprehensive analysis of spectroscopic data from diatomic molecules
[AD-A138063] 12 p1791 N84-21680
A theoretical study of the energetics and dynamics of high energy inelastic collision processes
[AD-A142799] 21 p3497 N84-32163
Energy redistribution in diatomic molecules on surfaces
[DE84-011442] 21 p3505 N84-32213
DICHROISM
An approach to molecular composites
[AD-A130192] 01 p0141 N84-10927
Development of a large area color display
[BMFT-FB-T-83-206] 10 p1499 N84-19801
Dyes for displays
[BMFT-FB-T-84-100] 16 p2557 N84-26401
Development of FT-IR attenuated total internal reflection dichroism technique for structural characterization of polymer surfaces
[AD-A140805] 17 p2768 N84-27577
Newly discovered effect of interaction of optical radiation and glass 21 p3482 N84-32069
DICKE RADIOMETERS
Observations and classifications with a 35/94 GHz radiometer of terrain near Motala, Sweden, July 1982
[FOA-C-30325-E1,E3] 03 p0402 N84-12630
Effect of nonideal square-law detection on static calibration in noise-injection radiometers
[NASA-TM-85684] 07 p0997 N84-16462
Microwave and theoretical studies for Cosmic Background Explorer satellite
[NASA-CR-175248] 18 p2954 N84-28721
Determination of microwave attenuation due to the influence of atmospheric gases using the radiometric technique
[INPE-2650-PRE/391] 23 p3730 N84-33637
DICKE TYPE RADIOMETERS
U DICKE RADIOMETERS
DICTIONARIES
Compilation of cooperative data element dictionary of five federal agencies' systems for processing of technical report literature
[AD-A130797] 01 p0161 N84-11059
Data dictionary model for relational databases
[DE84-002584] 05 p0759 N84-14981
Typographical terminology
[DE84-001981] 10 p1593 N84-20441
Specifications for a federal information processing standard data dictionary system 11 p1749 N84-21414
Glossary of Software Engineering Laboratory terms
[NASA-TM-85606] 13 p2026 N84-23135
German-English technical glossary
[DE84-007978] 15 p2418 N84-25521
Standardization of terminology in field of ionizing radiations and their measurements 18 p2823 N84-27925
Low rate voice transmission by a classifying vocoder
[ENST-84E002] 19 p3010 N84-29063
DIELECTRIC CONSTANT
U PERMITTIVITY
DIELECTRIC MATERIALS
U DIELECTRICS
DIELECTRIC POLARIZATION
Electromagnetic waves near dielectric structures
[AD-A132630] 05 p0670 N84-14403
Solvation and dielectric dispersion in optical electron transfer
[AD-A144183] 24 p3880 N84-34580
DIELECTRIC PROPERTIES
NT PERMITTIVITY
Enthalpy - improved dielectric insulation for superconducting wires
[AD-A131857] 03 p0356 N84-12316
External wave-launcher study
[DE84-001124] 04 p0523 N84-13441
The effect of water on the dielectric performance of a cable
[BLL-OA-TRANS-2634-(6196.3)] 04 p0524 N84-13447
Rigorous bounds for the calculated dielectric constants of ferroelectric polymers
[AD-A132741] 05 p0659 N84-14332
Properties of material in the submillimeter wave region (instrumentation and measurement of index of refraction)
[NASA-CR-175156] 07 p1006 N84-16524
Microwave dielectric constant dependence on soil tension
[AD-A134651] 08 p1178 N84-17673
On the dielectric properties of dry snow in the 800 MHz to 13 GHz range — remote sensing
[REPT-S-135] 09 p1337 N84-18733
Radar response from vegetation with nodal structure
[E84-10085] 10 p1520 N84-19956
Research on ferroelectric materials for millimeter wave application
[AD-A137128] 10 p1588 N84-20405
Theoretical studies of X-ray emission from supernova remnants and other non-equilibrium astrophysical plasmas
[NASA-CR-175394] 10 p1597 N84-20468
Measuring and modeling of the dielectric properties and attenuation of vegetation 12 p1832 N84-21940
Measuring and modeling of the dielectric properties and attenuation of vegetation 12 p1834 N84-21953
Improper ferroelectricity: A theoretical and experimental investigation
[AD-A138401] 12 p1898 N84-22362
Precise measurement of refractive index and absorption coefficient of near millimeter wave and far infrared materials
[AD-A138656] 13 p2043 N84-23253
UV and VUV degradation of very high reflectivity mirrors for use in a storage ring free electron laser
[AD-A138740] 13 p2043 N84-23255
New acid-proof protective coating 14 p2136 N84-23806
Nonlinear optical interfaces 14 p2233 N84-24396
Temperature-compensated piezoelectric materials
[AD-A139279] 14 p2242 N84-24460
Is a partially filled cylindrical resonator operating on the TE sub 011 mode desirable for the determination of permittivity?
[REPT-S-148] 15 p2320 N84-24928
K-band latching switches
[NASA-CR-168253] 15 p2327 N84-24973
Electromagnetic properties of sea ice
[AD-A140330] 16 p2534 N84-26268
Cross section for absorption of partly shielded dielectric sphere 17 p2635 N84-26858
Phase inverter based on dielectric stripline waveguide with mobile metal plate 17 p2638 N84-26879
Automatic measurement of bandwidth of microwave resonators 17 p2638 N84-26880
Microwave reflection measurements of the dielectric properties of concrete
[PB84-173624] 17 p2654 N84-26976
Scattering properties of partly screened dielectric sphere
[REPT-218] 17 p2662 N84-26983
Effect of mechanical stress on the dielectric properties of wood
[AD-A140608] 17 p2680 N84-27069
Electrical monitoring of polymerization reactions with the charge-flow transistor
[AD-A142267] 19 p3000 N84-29010
High density circuit technology
[NASA-CR-162041] 19 p3012 N84-29091
The role of boundary layer capacitance at blocking electrodes in the interpretation of dielectric cure data in adhesives
[AD-A142188] 19 p3016 N84-29121
Dielectric cure monitoring: Preliminary studies
[NASA-TM-86452] 21 p3369 N84-31378
Properties of bubble domains in cholesteric-nematic mixtures 21 p3477 N84-32039
Amplification of traveling magnetostatic waves by parametric pumping 21 p3479 N84-32050
Electrical characteristics of metal-dielectric-semiconductor systems produced on epitaxial silicon structures with various dielectrics 21 p3479 N84-32052
Electrical and differential scanning calorimetry studies of poly(ethylene oxide) complexed with alkaline earth thiocyanates
[AD-A143198] 22 p3546 N84-32449
NMP, electrical relaxation, and high pressure electrical conductivity in ion conducting polymers
[AD-A143202] 22 p3546 N84-32451
Current assessment of the potential of dielectric gas mixtures for industrial applications
[DE84-011658] 22 p3568 N84-32724
Dielectric measurements of soils in the 3 to 37 GHz band between -50C and 23C 23 p3768 N84-33683
The dielectric behavior of snow in the 3 to 37 GHz range 23 p3768 N84-33684
Application of surface magnetoplasmons on semiconductor substrates
[AD-A143767] 23 p3830 N84-34293
The effect of fluids on waveguides below cutoff penetrations as related to electromagnetic shielding effectiveness
[AD-A144685] 24 p3896 N84-34670
DIELECTRICS
Radar resonance reflection from sets of plane dielectric layers
[AD-A128680] 01 p0062 N84-10406
Development of a generator stator insulation system
[AD-A130376] 01 p0070 N84-10455
Finite-element approach to guided wave problems
[AD-A131623] 02 p0213 N84-11396
Dielectric loss measurement at millimetre wave frequencies using an untuned cavity
[RSRE-MEMO-3597] 03 p0366 N84-12379
The performance of the perfluorocarbon liquid/plastic-film capacitor technology in pulse-power service. A current status report
[DE83-014606] 03 p0369 N84-12402
Interaction of a stream of dielectric spheres in an electric field in a high vacuum
[DE83-013695] 04 p0600 N84-13958
Elektrotopograf experiment on Salyut-7 05 p0633 N84-14163
Dielectric resonators for use in microwave and millimeter-wave GaAs circuits
[AD-A132681] 05 p0675 N84-14440
Stimulated Cerenkov radiation beam monitor
[AD-A132617] 05 p0744 N84-14889
Millimeter wave guiding structures and antennas
[AD-A133528] 06 p0825 N84-15376
Dielectric relaxation in poly(ethylene oxide) complexed with alkali metal perchlorates
[AD-A134464] 07 p0970 N84-16284
Experimental study of a dielectric antenna at the frequency range of 76-80 GHz
[AD-A134429] 07 p0993 N84-16438
Pulsed-laser atom probe: Recent applications
[DE82-020093] 07 p1010 N84-16551
National Bureau of Standards Journal of Research, volume 88, no. 4, July - August 1983
[PB84-115849] 08 p1163 N84-17571
Insulator materials in high power lasers for inertial fusion: Present and future
[DE84-003738] 08 p1234 N84-18063
Basic research in electronics (JSEP) Joint Services Electronics Program
[AD-A136290] 09 p1306 N84-18538
Development and applications of the microchannel spatial light modulator
[AD-A136132] 09 p1323 N84-18645
Research and crystal growth on high dielectric constant materials for mm wave applications
[AD-A136281] 09 p1394 N84-19102
A dielectric study of the Time-Temperature-Transformation (TTT) diagram of DGEBA epoxy resins cured with DDS (Diaminodiphenylsulfone)
[AD-A137358] 10 p1466 N84-19573
Laser chemical vapor deposition
[AD-A137827] 11 p1663 N84-20850
Test techniques for model development of repetitive service energy storage capacitors
[DE84-004312] 11 p1674 N84-20925
Cerenkov radiation from bunched electron beams, revised
[AD-A137533] 11 p1729 N84-21280
Polymer thick-film conductors and dielectrics for membrane switches and flexible circuitry 12 p1840 N84-21994
Measurements of ionization balance parameters in atomic ions
[DE84-007884] 14 p2222 N84-24337
Nonlinear optical interfaces 14 p2233 N84-24396
Theory of resonance-enhanced optical nonlinearities in semiconductors 14 p2234 N84-24407
Space plasma high-voltage drainage experiment (A0054) 15 p2274 N84-24655
Mathematical modelling of waveguiding techniques and electron transport, volume 2
[AD-A139604] 15 p2391 N84-25350
Mathematical modelling of waveguiding techniques and electron transport, volume 1
[AD-A139603] 15 p2397 N84-25382
Laboratory and space measurements of materials
[AD-P002113] 16 p2523 N84-26199
Space electron-induced discharge coupling into satellite electronics
[AD-P002114] 16 p2523 N84-26200
On the problem of cylindrical array radiation through inhomogeneous dielectric layer 17 p2631 N84-26831

Concerning Q of a cylindrical dielectric resonator screened by a waveguide 17 p2631 N84-26832
Scattering properties of partly screened dielectric sphere
[REPT-218] 17 p2682 N84-26983
Optical constant determination of thin films condensed on transmitting and reflecting substrates
[AD-A140845] 17 p2768 N84-27578
Scattering of electromagnetic waves at edge of semiinfinite dielectric layer embedded in ideally conducting half-space 18 p2822 N84-27919
Deposition of diamondlike carbon films
[NASA-CASE-LEW-14080-1] 19 p2996 N84-28986
Green's function for a dielectric wave-guide filled with a dispersion medium
[ISSN-0208-5658] 19 p3003 N84-29032
On the damped nonlinear equation w sub tt = sigma (w) sub xx gamma w sub t
[AD-A142263] 19 p3008 N84-29070
High density circuit technology
[NASA-CR-162039] 19 p3012 N84-29089
High density circuit technology
[NASA-CR-162041] 19 p3012 N84-29091
Analysis of nonuniform dielectric waveguides for millimeter-wave applications
[AD-A141406] 19 p3013 N84-29098
The role of boundary layer capacitance at blocking electrodes in the interpretation of dielectric cure data in adhesives
[AD-A142188] 19 p3016 N84-29121
Wave attenuation and mode dispersion in a waveguide coated with lossy dielectric material
[NASA-CR-173820] 20 p3172 N84-30145
A study of distributed millimeter-wave isolators
[AD-A142729] 20 p3179 N84-30189
Negative ion formation in SF6 spark by-products
[DE84-012340] 20 p3181 N84-30212
Characterization of micron-sized, optical coating defects by photothermal deflection microscopy
[DE84-011150] 20 p3301 N84-30960
Electron charging and SGEMP (System Generated Electromagnetic Pulse) studies on satellite dielectrics
[AD-A143012] 21 p3353 N84-31268
Dielectric-grating band-pass filters
21 p3379 N84-31442
Calculation of hydraulic friction losses in dc motors filled with liquid dielectric 21 p3380 N84-31450
Waveguide characteristics of resonators with arbitrary distribution of dielectric permittivity
21 p3380 N84-31451
Axial-conductances angular filter investigation
[AD-A142802] 21 p3386 N84-31487
Scattering properties of a moving dielectric object
[AD-A142845] 21 p3386 N84-31489
Auxiliary programs for the Metal-Enclosed Microstrips Project
[INPE-3172-PRE/542] 21 p3465 N84-31964
Electroding of multi-layered epitaxial structures
[AD-D011137] 22 p3661 N84-33209
Development of a production method for hard dielectric coating systems
[BMFT-FB-T-84-116] 23 p3727 N84-33821
Microwave bandstop filters as dielectric resonators
[INPE-3055-PRE/475] 23 p3740 N84-33706
Analyses on the low voltage free electron laser
[AD-A143681] 23 p3754 N84-33796
Solvation and dielectric dispersion in optical electron transfer
[AD-A144183] 24 p3880 N84-34580

DIELECTRONIC SATELLITE LINES
U RESONANCE LINES

DIELS-ALDER REACTIONS
Calorimetric determination of the thermodynamic behavior of reversible liquid-phase reactions for use in energy storage
[DE84-010437] 21 p3507 N84-32218

DIENES
NT BUTADIENE
Study of factors leading to regrouping of the chain structure during ionic diene polymerization
[BLL-M-28719-(5828.4)] 01 p0048 N84-10309

DIES
Holding fixture for a hot stamping press
[NASA-CASE-GSC-12619-1] 03 p0382 N84-12491
The manufacture and finishing of aluminium extrusion dies 09 p1293 N84-18447
Fundamental approach to design and prediction of performance of forming tools 09 p1294 N84-18453
Ultrasonic angle beam standard reflector
[NASA-CASE-LAR-13153-1] 11 p1728 N84-21274
Finite element analysis of axisymmetric forging
15 p2307 N84-24838
Construction of a test bench for closed die forging
[CETIM-5.580.50] 21 p3376 N84-31425

DIESEL ENGINES
Research on fire-resistant diesel fuel flammability mitigation mechanisms
[AD-A130743] 01 p0052 N84-10337
Evaluation of unthrottled combustion system options for light duty applications with future syncrude derived fuels
[DE83-017047] 03 p0358 N84-12327
Vehicle-emission characteristics using mechanically emulsified alcohol/diesel fuels
[DE83-016012] 03 p0406 N84-12656
Alternative fuels for medium-speed diesel engines (AFFMSDE) program: Slurries, emulsions, and blended-fuel extenders; cylinder wear measurements, staged injection
[DE84-000524] 04 p0510 N84-13340
Residual shale-oil/diesel-engine operating compatibility program
[DE84-000133] 04 p0545 N84-13587
Catalog of selected heavy duty transport energy management models
[NASA-CR-168299] 05 p0761 N84-14991
1981 CRC (Coordinating Research Council) diesel fuel low-temperature operability field test
[AD-A133543] 06 p0813 N84-15289
Numerical experiments with CONCHAS-SPRAY: Compression stroke of an external chamber diesel engine
[DE84-002321] 06 p0853 N84-15561
Apparatus and method for destructive removal of particles contained in flowing fluid
[NASA-CASE-NPO-15426-1] 08 p1161 N84-17555
Diesel fuel extenders and substitutes
[DE84-003402] 08 p1167 N84-17587
Exhaust emissions from a diesel engine
[PB84-122910] 08 p1184 N84-17713
Effects of diesel vehicles on visibility in California
[PB84-122167] 08 p1184 N84-17714
Status, needs, and opportunities for structural ceramics in advanced heat engines
[DE84-003307] 09 p1289 N84-18413
Heavy-duty diesel emissions as a function of alternate fuels
[PB84-120716] 09 p1291 N84-18426
Emissions and efficiency of agricultural diesels using low-proof ethanol as supplement fuel
[DE84-003931] 09 p1325 N84-18659
Fabrication and coating of selected diesel engine components for combustion durability testing
[DE84-002188] 09 p1326 N84-18662
Laboratory investigation of the fate of diesel emissions in the atmosphere
[PB84-118496] 09 p1343 N84-18772
Ceramic coatings for heat engine materials: Status and future needs
[DE84-003401] 10 p1468 N84-19590
The relationship between vehicle fuel temperature and ambient temperature. 1981 CRC (Coordinating Research Council) Kapuskasing field test
[AD-A136948] 10 p1470 N84-19602
Water and alcohol use in automotive diesel engines: Alternative Fuels Utilization Program
[DE84-004196] 10 p1470 N84-19603
Synfuel modified diesel
[DE84-002189] 10 p1502 N84-19819
Microwave-enhanced ignition in diesel engines
[AD-A138148] 12 p1791 N84-21682
Proceedings of the 5th Workshop on Catalytic Combustion
[PB84-145580] 12 p1794 N84-21703
High speed photography and pulsed laser holography for diagnostic investigations of mixture formation and vibration in reciprocating engines
[DFVLR-MITT-83-18] 12 p1819 N84-21857
An overview of NASA intermittent combustion engine research
[NASA-TM-83668] 15 p2261 N84-24583
Study of particulate formation and radiant heat loss in direct injection-type diesel engines
[PB84-160100] 15 p2344 N84-25073
Topics in finite time thermodynamics
[DE84-009057] 15 p2416 N84-25502
Assessment of fuel cell propulsion systems
[DE84-006323] 15 p2420 N84-25536
Utilization of alternative fuels in diesel engines
[NASA-CR-174669] 17 p2628 N84-26813
Identification of a nonlinear difference equation model of an industrial diesel generator
[RR-246] 18 p2926 N84-28559
Basic study of fuel storage stability
[AD-A142194] 19 p2966 N84-28799
Development of carbon slurry fuels for transportation (hybrid fuels, phase 2)
[NASA-CR-174659] 19 p2992 N84-28960
Wind turbine generator interaction with conventional diesel generators on Block Island, Rhode Island. Volume 1: Executive summary
[NASA-CR-168318] 19 p3050 N84-29357
Problem definition study on emission by-product hazards from diesel engines for confined space Army workplaces
[AD-A141377] 19 p3052 N84-29367
High-temperature lubricants for minimum-cooled diesel engines
[AD-A142426] 20 p3162 N84-30078
Utilization of SRC-2 fuel in an insulated diesel engine
[DE84-004386] 20 p3167 N84-30111
Scope for active noise abatement in vehicle diesel engines
[BLL-M-28767-(5825.4)] 20 p3290 N84-30885
Positive displacement compounding of a heavy duty diesel engine
[NASA-CR-168286] 21 p3413 N84-31641
The 100 area diesel performance data
[DE84-011136] 21 p3414 N84-31648
An RC-1 organic Rankine bottoming cycle for an adiabatic diesel engine
[NASA-CR-168256] 21 p3521 N84-32306
Waste heat recovery from adiabatic diesel engines by exhaust-driven Brayton cycles
[NASA-CR-168257] 21 p3521 N84-32307
Steam bottoming cycle for an adiabatic diesel engine
[NASA-CR-168255] 22 p3676 N84-33304
Computer simulation of the heavy-duty turbo-compounded diesel cycle for studies of engine efficiency and performance
[NASA-CR-174755] 22 p3676 N84-33306
Evaluation of service lubricants and metals correlation of bench tests with engines
[AD-A143971] 23 p3718 N84-33569
Diesel engine catalytic combustor system — aircraft engines
[NASA-CASE-LEW-12995-1] 23 p3756 N84-33808
Enhanced efficiency of modern four-stroke Diesel engines in generator operation
23 p3757 N84-33817
Baseline performance and emissions data for a single-cylinder, direct-injected diesel engine
[NASA-TM-86873] 23 p3836 N84-34330
Evaluation of candidate Stirling engine heater tube alloys after 3500 hours exposure to high pressure doped hydrogen or helium
[NASA-TM-83782] 24 p3883 N84-34603
Computer aided data acquisition and control of an internal combustion engine
[AD-A144425] 24 p3946 N84-34990

DIESEL FUELS
Research on fire-resistant diesel fuel flammability mitigation mechanisms
[AD-A130743] 01 p0052 N84-10337
Vehicle-emission characteristics using mechanically emulsified alcohol/diesel fuels
[DE83-016012] 03 p0406 N84-12656
Middle distillate fuel stability characteristics: A review
[AD-A132156] 04 p0509 N84-13337
Alternative fuels for medium-speed diesel engines (AFFMSDE) program: Slurries, emulsions, and blended-fuel extenders; cylinder wear measurements, staged injection
[DE84-000524] 04 p0510 N84-13340
Alternative gaseous-fuels safety assessment
[DE84-001735] 05 p0662 N84-14350
Development of quantitative infrared analysis for monitoring water and emulsifying agents in fire-resistant microemulsion diesel fuels
[AD-A133242] 06 p0812 N84-15286
1981 CRC (Coordinating Research Council) diesel fuel low-temperature operability field test
[AD-A133543] 06 p0813 N84-15289
Diesel fuel extenders and substitutes
[DE84-003402] 08 p1167 N84-17587
Effects of diesel vehicles on visibility in California
[PB84-122167] 08 p1184 N84-17714
Toxic Hazards Research Unit report, 1983
[AD-A136170] 09 p1362 N84-18896
The relationship between vehicle fuel temperature and ambient temperature. 1981 CRC (Coordinating Research Council) Kapuskasing field test
[AD-A136948] 10 p1470 N84-19602
Synfuel modified diesel
[DE84-002189] 10 p1502 N84-19819
Research on alternative fuels
[CSIR-RME-465] 11 p1639 N84-20711
Review of storage stability characteristics of hydrocarbon fuels, 1952-1982
[DE84-006557] 12 p1803 N84-21754
Vegetable Oil as Diesel Fuel: Seminar 3
[PB84-151323] 14 p2133 N84-23782
Utilization of alternative fuels in diesel engines
[NASA-CR-174669] 17 p2628 N84-26813

Basic study of fuel storage stability
[AD-A142194] 19 p2966 N84-28799
Utilization of SRC-2 fuel in an insulated diesel engine
[DE84-004386] 20 p3167 N84-30111

DIETHYL ETHER
Energy partitioning to product translation in the infrared multiphoton dissociation of diethyl ether
[AD-A131555] 02 p0226 N84-11482

DIETS
Effect of hypokinesia on amino acid metabolism in rats on diets differing in calcium and phosphorus content
02 p0261 N84-11707
Adaptations to a high fat diet which increase exercise endurance in male rats 04 p0570 N84-13755
Metabolism and nutritional status in emergency situations without food supply or on a low-calorie diet
07 p1046 N84-16781
Effects of dietary sodium intake on body and muscle potassium content in unacclimatized men during successive days of work in the heat
10 p1549 N84-20153

DIFFERENCE EQUATIONS
Crank-Nicholson difference schemes for solving coupled systems of nonlinear diffusion equations
[IPP-6/223] 03 p0424 N84-12776
Identification of nonlinear systems
[RR-232] 05 p0739 N84-14850
Development of X-ray laser media. Measurement of gain and development of cavity resonators for wavelengths near 130 angstroms, volume 2
[AD-A136306] 09 p1320 N84-18622
Development of X-ray laser media. Measurement of gain and development of cavity resonators for wavelengths near 130 angstroms, volume 3
[AD-A136307] 09 p1320 N84-18623
Numerical methods for stiff two-point boundary value problems
[AD-A136427] 09 p1375 N84-18981
Bifurcation of map resonance 1 : 4
[MC-TW-245/83] 13 p2035 N84-23204
False diffusion in three-dimensional steady flow calculations
[KU-SFB-80/T/224] 17 p2669 N84-27017
Identification of a nonlinear difference equation model of an industrial diesel generator
[RR-246] 18 p2926 N84-28559
Development of a self-adapted error-controlled difference method to solve the three-dimensional laminar incompressible boundary layer equations by numerically given contours determined by points
[REPT-24/83] 19 p3025 N84-29186
Global bifurcation of a logistic delay map
[CWI-AM-R8402] 19 p3092 N84-29634
The exit problem for a stochastic dynamical system in a domain with almost everywhere characteristic boundaries
[CWI-AM-R8403] 19 p3092 N84-29635
Fundamental research in applied mathematics
[AD-A143123] 21 p3474 N84-32016

DIFFERENCES
Speed-dependent collision effects on radar back-scattering from the ionosphere — incoherent scatter radar
[NASA-CR-173077] 03 p0359 N84-12336
Differences in COBOL syntax between vendors' implementations
[PB83-263392] 05 p0720 N84-14721

DIFFERENTIAL ALGEBRA
U DIFFERENTIAL CALCULUS
U MATRICES (MATHEMATICS)

DIFFERENTIAL AMPLIFIERS
Measurement amplifier
[NASA-CASE-MFS-25868-1] 22 p3581 N84-32680

DIFFERENTIAL CALCULUS
Stability in linear multistep methods for pure delay equations
[MC-NW-152/83] 07 p1065 N84-16913

DIFFERENTIAL EQUATIONS
NT BIHARMONIC EQUATIONS
NT BURGER EQUATION
NT CAUCHY-RIEMANN EQUATIONS
NT COSINE SERIES
NT ELLIPTIC DIFFERENTIAL EQUATIONS
NT EULER-CAUCHY EQUATIONS
NT FOKKER-PLANCK EQUATION
NT GAUSS EQUATION
NT HELMHOLTZ VORTICITY EQUATION
NT HYPERBOLIC DIFFERENTIAL EQUATIONS
NT LIOUVILLE EQUATIONS
NT PARABOLIC DIFFERENTIAL EQUATIONS
NT PARTIAL DIFFERENTIAL EQUATIONS
NT POISSON EQUATION
NT VORTICITY EQUATIONS
On the application of optical signal processing to the solution of Riccati equations
[AD-A130710] 01 p0133 N84-10869
A numerical method for solving by approximation an advanced integro-differential equation
[INPE-2826-PRE/379] 02 p0279 N84-11830
Solutions of a 4th order differential equation describing mode conversion in a magnetized plasma
[AD-A131600] 02 p0281 N84-11840
Relative symmetries of differential equations
[DE83-015231] 03 p0426 N84-12790
The effects of small noise on implicitly defined non-linear dynamical systems
[AD-A131632] 03 p0428 N84-12808
Evolution of the ultra high energy cosmic ray spectron by transport equation
[DE83-013711] 03 p0476 N84-13132
Method of operator splitting or fractional steps and its applications to fluid-dynamic modelling
[DE84-000800] 04 p0534 N84-13511
Inertial effects in laser-drive ablation
[DE84-000071] 04 p0542 N84-13566
The specific solutions of a uniform algebraic differential equation of the second order
[ISSN-0066-1953] 04 p0575 N84-13783
The specific solutions of a uniform algebraic differential equation of the second order 04 p0575 N84-13790
Quasiconformal semiflows 04 p0576 N84-13792
On interpolation methods for boundary value ordinary differential equations 04 p0586 N84-13869
Solution of the 2-point boundary value problems of optimal spacecraft rotational maneuvers
04 p0586 N84-13870
Remarks on the Kuramoto-Sivashinsky equation
[DE84-001018] 04 p0590 N84-13901
Computational methods for complex flowfields
[AD-A133970] 05 p0680 N84-14467
Numerical methods for singularly perturbed differential equations with applications
[AD-A133741] 05 p0734 N84-14821
Expressions for the exact state transition matrix of a nine-state target model
[AD-A132652] 05 p0735 N84-14830
Introduction to dynamic bifurcation
[AD-A133252] 06 p0901 N84-15846
Elements of functions of a complex variable
06 p0906 N84-15881
Linear and nonlinear aspects of rotordynamics
06 p0929 N84-16034
Perturbation solution for gas flow in a tapered rotor
[DE84-002930] 07 p1003 N84-16507
Three-dimensional unsteady Euler equation solutions using flux vector splitting
[NASA-CR-173254] 07 p1058 N84-16857
On perturbations of stability inequalities with an application to finite difference approximations of ODE's
[AD-A134535] 07 p1062 N84-16889
Periodic solutions of Lagrangian systems on a compact manifold
[AD-A134557] 07 p1063 N84-16897
Error estimators for stiff differential equations
[DE84-003331] 07 p1064 N84-16901
Current algebras and the identification problem
[MC-BW-187/83] 07 p1066 N84-16923
Temporal finite elements based on a minimum principle for initial value problems 08 p1216 N84-17935
Nonlinear resonance
[AD-A135117] 08 p1218 N84-17950
International Conference on Stiff Computation
[AD-A135265] 08 p1219 N84-17956
Numerical methods for singular perturbation problems
[AD-A134696] 08 p1220 N84-17966
Matrix-free methods in the solution of stiff systems of ODE's
[DE84-003361] 08 p1221 N84-17974
Automatic adaptive grid refinement for the Euler equations
[NASA-CR-173161] 08 p1222 N84-17977
Algorithm for the detection and integration of highly oscillatory ordinary differential equations using a generalized unified modified divided difference representation
[DE84-003585] 08 p1222 N84-17978
Mathematical methodology for evaluating simulation of flow in porous media
[DE84-004775] 09 p1316 N84-18601
Structure and stability of finite dimensional approximations for functional differential equations
[AD-A136324] 09 p1373 N84-18966
Applications of natural constraints in critical point theory to periodic solutions of natural Hamiltonian systems
[AD-A136348] 09 p1373 N84-18968
Using interval methods for the numerical solution of ODE'S (Ordinary Differential Equations)
[AD-A136373] 09 p1374 N84-18972
Initial value problems for viscoelastic liquids
[AD-A136425] 09 p1375 N84-18980
Numerical methods for stiff two-point boundary value problems
[AD-A136427] 09 p1375 N84-18981
Infinite dimensional stochastic differential equation models for spatially distributed neurons
[AD-A136507] 09 p1376 N84-18986
Laminarization effects on the dynamics of a disk levitated by incompressible fluid flow
[DE84-003612] 10 p1494 N84-19770
Analytical and experimental investigation of rotating blade response due to nozzle passing frequency excitation 10 p1515 N84-19917
Solution of dynamic optimization problems by successive quadratic programming and orthogonal collocation
[AD-A137338] 10 p1563 N84-20238
Mathematical models for damageable structures
[AD-A136574] 10 p1572 N84-20298
A differential equations approach to the modal location for a family of bivariate gamma distributions
10 p1573 N84-20307
Instrument failure detection in nonlinear systems
[DE84-005306] 11 p1661 N84-20638
Relationship between global fossil-fuel consumption and the concentration of carbon dioxide in the atmosphere, part 2
[PB84-138841] 11 p1683 N84-20985
Research in algebraic manipulation
[AD-A137742] 11 p1713 N84-21171
Research in algebraic manipulation
[AD-A137776] 11 p1714 N84-21174
Normal modes of a LaGrangian system constrained in potential well
[AD-A137948] 11 p1715 N84-21187
Interpolation for Runge-Kutta methods
[DE84-006455] 11 p1716 N84-21193
The numerical solution of three stochastic differential games
[CSIR-TWISK-292] 11 p1718 N84-21205
Numerical modeling of D-mappings with applications to chemical kinetics
[NASA-TM-84332] 12 p1893 N84-22326
Integral green's function solutions to differential equations
[AD-A138077] 12 p1894 N84-22335
Step sizes used by one-step codes for ODEs
[DE84-006317] 12 p1895 N84-22344
Step size control in ODE solvers
[DE84-006391] 12 p1895 N84-22345
Dynamics analysis of electrodynamic satellite tethers. Equations of motion and numerical solution algorithms for the tether
[NASA-CR-171777] 13 p1937 N84-22598
Lanchester's equations and game theory
[AD-P002877] 13 p1978 N84-22838
Rayleigh-Taylor instability in the presence of a stratified shear layer
[AD-A138544] 13 p2011 N84-23043
Littlewood Paley's g function associated with a singular differential operator (0, infinity) 13 p2032 N84-23160
Exponential calculus of microdifferential operators of infinite order, part 1 13 p2033 N84-23181
Disturbance minimization techniques for linear, time-invariant dynamical systems
[AD-A138915] 13 p2033 N84-23185
Formulas for the L-2 minimal solutions of the Delta Delta bar equation in the unit ball of C sup N
[CTH-MATH-1983-16-PREPRINT]
13 p2034 N84-23189
A Finite Integral Transform (FIT) method for differential equations having asymptotic solutions
[AD-P002958] 14 p2200 N84-24198
An explicit predictor-corrector solver with applications to Burgers' equation
[NASA-TM-84402] 14 p2211 N84-24276
Uniqueness of connecting orbits in the equation y(3) = y2 - 1
[AD-A139261] 14 p2213 N84-24289
On the almost periodicity of the solutions of an integrodifferential equation
[AD-A139312] 14 p2213 N84-24293
On small period, large amplitude normal modes of natural Hamiltonian systems
[AD-A139314] 14 p2213 N84-24294
Hitting probabilities of killed Brownian motion: A study on geometric regularity
[CTH-MATH-1983-11] 14 p2219 N84-24314
Chaos and optical bistability: Bifurcation structure
14 p2231 N84-24362
Empirical and analytical study of instabilities in hybrid optical bistable systems 14 p2236 N84-24416
The numerical treatment of linear integrodifferential equations
[HMI-B-381] 15 p2399 N84-25398

Analytical solution of 1st and 2nd ordinary differential equations using the REDUCE 2 algebra manipulation program
[NASA-TM-77446] 16 p2548 N84-26351
Action of external interference-carrying field on nonuniform multiwire shield 17 p2635 N84-26859
Computer-aided optimal design of constrained dynamic systems 17 p2675 N84-27040
Mathematics of multidart probability predictions
[AD-A140745] 17 p2760 N84-27526
Construction of finite difference schemes having special properties for ordinary and partial differential equations
[NASA-CR-173722] 18 p2924 N84-26544
Finite element solution of a self-adjoint transport equation in one dimension
[AD-A141225] 18 p2926 N84-26557
Use of the Burton-Prim-Slichter equation at high growth rates 18 p2936 N84-26622
On dynamical formulation of a tethered satellite system with mass transport
[AD-A142312] 19 p2980 N84-26888
Comparison of the Liapunov Method and the method of total disparities using the example of selected differential equations
[ISSN-0208-5658] 19 p3081 N84-29553
On a class of quasilinear partial integrodifferential equations with singular kernels
[AD-A141700] 19 p3087 N84-29595
Analysis of an integration method for rapidly oscillating integrands
[AD-A141731] 19 p3087 N84-29596
A numerical scheme for the identification of hybrid systems describing the vibration of flexible beams with tip bodies
[NASA-CR-172388] 19 p3095 N84-29655
Rotor noise prediction technology: Theoretical approach 19 p3098 N84-29678
On the two-body problem with variable masses 19 p3117 N84-29808
Formal solutions in a double resonant problem 19 p3118 N84-29813
A stochastic approach to global error estimation in the numerical solution of ordinary differential equations 19 p3118 N84-29815
A note about Lie series and some applications 19 p3121 N84-29836
Europe approaches chaos with electrical circuits
[AD-A142085] 20 p3177 N84-30179
Legendre-tau approximation for functional differential equations. Part 2: The linear quadratic optimal control problem
[NASA-CR-172397] 20 p3260 N84-30618
Study of nonlinear singular systems
[AD-A142348] 20 p3260 N84-30620
Techniques for large sparse systems arising from continuation methods
[DE84-010410] 20 p3262 N84-30833
Hamiltonian structure of field-line equations
[DE84-011019] 20 p3262 N84-30836
Monte Carlo simulation of the microcanonical ensemble
[DE84-010880] 20 p3295 N84-30923
Flapping-torsional response of helicopter rotor blades to turbulence excitation 21 p3327 N84-311 0
Computational Methods: 1984 JPM Specialist Session
[AD-A142923] 21 p3354 N84-31276
Exponential-fitted methods for integrating stiff systems of ordinary differential equations: Applications to homogeneous gas-phase chemical kinetics 21 p3355 N84-31279
A comparison of the efficiency of numerical methods for integrating chemical kinetic rate equations 21 p3355 N84-31280
Spline approximation for retarded systems and the Ricatti equation
[AD-A142963] 21 p3473 N84-32010
Research in nonlinear motion
[AD-A143000] 21 p3473 N84-32013
Investigation of the state of materials in plasma deposition of refractory coatings
[BLL-M-35686-(5828.4)] 22 p3551 N84-32485
Stresses and displacements in linear Maxwell non-isothermal circular plates on Winkler foundation and with radial and transverse variation in material properties 22 p3608 N84-32856
Analysis of parametrically excited large vibration systems
[AD-A143283] 22 p3611 N84-32879
Fatou theorem for the proper functions of invariant potential operators by a group of Cartan displacements 22 p3635 N84-33037
Algorithmic integration of elementary transcendental functions on an algebraic curve 22 p3636 N84-33052
The design and performance of a parallel computer architecture for simulation 22 p3637 N84-33054
MECA: A supercomputer for Monte Carlo
[DE84-014129] 22 p3638 N84-33066
Parameter estimation for the Euler-Bernoulli-beam
[NASA-CR-172417] 22 p3645 N84-33107
Analytical solution for computing first and second order ordinary differential equations using a method of series development
[INPE-2980-PRE/442] 22 p3645 N84-33110
Some practical Runge-Kutta formulas
[DE84-013539] 22 p3646 N84-33123
Supraconvergence and functions that sum to zero on cycles
[DE84-013889] 23 p3818 N84-34210
On the integrals of the n-body problem 23 p3819 N84-34220
Qualitative analysis of the anisotropic Kepler problem 23 p3819 N84-34221
An anisotropic lens for launching TEM waves on a conducting circular conical system
[AD-A144140] 24 p3893 N84-34656
A few necessary considerations for the use of the finite element methods by non-specialists
[INPE-3238-PRE/586] 24 p3949 N84-35005

DIFFERENTIAL GEOMETRY
NT LIE GROUPS
NT RIEMANN MANIFOLD
NT TENSOR ANALYSIS
Bifurcation theory applied to the study of control losses on combat aircraft 04 p0478 N84-13144
On L sup p-integrability in PDE's and quasiregular mappings for large exponents 04 p0576 N84-13799
Chiral anomalies and differential geometry
[DE84-004637] 11 p1717 N84-21200
Analysis linking the tensor structure to the least-squares method
[AD-A142159] 19 p3089 N84-29611
An equality which yields zero velocity surfaces 19 p3117 N84-29810
Local and global integrability of anomalous ward identities
[PREPRINT-364] 23 p3819 N84-34217
Minigrant program. A differential geometric approach to electromagnetic lens design
[AD-A144239] 24 p3950 N84-35013

DIFFERENTIAL OPERATORS
U DIFFERENTIAL EQUATIONS
U OPERATORS (MATHEMATICS)

DIFFERENTIAL PULSE CODE MODULATION
Presentation of a new adaptive intraframe prediction procedure — television signals
[IND-FB-112] 07 p0994 N84-16446
Coding of color video signals for digital magnetic tape recording at low bit rates
[BMFT-FB-T-83-185] 07 p0995 N84-16450
Results of investigation of adaptive speech codes 21 p3376 N84-31428

DIFFERENTIAL THERMAL ANALYSIS
U THERMAL ANALYSIS

DIFFERENTIATION
Effects of radiofrequency radiation on differentiation of erythroleukemic cells
[AD-A143038] 21 p3453 N84-31914
The arithmetic of differentiation
[AD-A142964] 21 p3473 N84-32011

DIFFERENTIATION (BIOLOGY)
Morphometric study of rat adrenal medulla during long-term hypokinesia 02 p0260 N84-11705
Growth and differentiation of mammalian embryonic tissues exposed to hypergravity in vivo and in vitro 09 p1357 N84-18869

DIFFERENTIATORS
A formulation and analysis of combat games
[NASA-TM-85927] 13 p1935 N84-22585

DIFFRACTION
NT ELECTRON DIFFRACTION
NT FRESNEL DIFFRACTION
NT NEUTRON DIFFRACTION
NT WAVE DIFFRACTION
NT X RAY DIFFRACTION
Analytic diffraction corrections to ultrasonic scattering measurements
[DE83-018080] 03 p0431 N84-12825
Further investigations of the multiple knife-edge attenuation function
[PB83-245043] 04 p0523 N84-13442
Switchable zero order diffraction gratings as light valves
[AD-A133010] 05 p0747 N84-14908
Electrical transport in low resistivity amorphous alloys
[AD-A136331] 09 p1282 N84-18372
General Electromagnetic Model for the Analysis of Complex Systems (GEMACS) user manual (version 3), volume 1
[AD-A137461] 10 p1480 N84-19669
Particle size distribution of typical ceramic raw materials by laser granulometry
[NASA-TM-77385] 11 p1636 N84-20696
Integrated optical signal processing with magnetostatic waves 12 p1907 N84-22420
Diffraction of a line sink field
[FOA-C-30353-E] 15 p2320 N84-24931
Mathematical modelling of waveguiding techniques and electron transport, volume 2
[AD-A139604] 15 p2391 N84-25350
Mathematical modelling of waveguiding techniques and electron transport, volume 1
[AD-A139603] 15 p2397 N84-25382
Future development trends for Head-Up Displays
[AD-P003164] 17 p2589 N84-26595
Effects of spacecraft reflections on RF interferometer position location accuracy
[NASA-CR-175244] 18 p2828 N84-27955
Switchable zero order diffraction gratings as light valves
[AD-A142513] 20 p3300 N84-30953
Apparatus based on holographic focusing diffraction grating for measurement of diffraction efficiency of three-dimensional image holograms 21 p3482 N84-32068
Measurement of the transverse mode excitation in the stimulated emission of the ACO free electron laser
[AD-A143449] 22 p3601 N84-32808
Numerical diffraction by a uniform grid
[DE84-012861] 22 p3646 N84-33121
Polynominal grating
[AD-D011090] 22 p3657 N84-33186
Uniform asymptotic solution of the problem of diffraction for a linear quadrupole source
[ISSN-0208-5658] 23 p3729 N84-33631
Wiener-Hopf technique for the equation U(alpha) = K(alpha) L(alpha) + D(alpha) in the case of function K(alpha) with zeroes
[ISSN-0208-5658] 23 p3729 N84-33632
Analysis of the solution of the problem of diffraction on an asymmetric impedance half-plane
[ISSN-0208-5658] 23 p3729 N84-33633

DIFFRACTION GRATINGS
U GRATINGS (SPECTRA)

DIFFRACTION PATTERNS
Contributions to the theory of quantum 1/f noise 08 p1236 N84-18082
Ion-beam nitriding of steels
[NASA-TM-83599] 12 p1797 N84-21719
Dependence of holographic grating formation upon interference pattern orientation in bismuth silicon oxide
[AD-A138099] 12 p1818 N84-21852
Optical communication with laser diode arrays
[NASA-CR-173533] 14 p2150 N84-23879
Optimization of fringe-type laser anemometers for turbine engine component testing
[NASA-TM-83658] 15 p2335 N84-25019
Evidence for parallel elongated structures in the mesosphere 17 p2689 N84-27122
The Spot of Arago and its role in aberration analysis
[AD-A141983] 20 p3299 N84-30952
Measurement of integrated circuit element dimensions taking into account real etching profile according to diffraction pattern 21 p3378 N84-31437
Thermoscopic study of diffraction current distribution 22 p3565 N84-32583

DIFFRACTION PROPAGATION
Transverse mode dynamics in a free electron laser
[AD-A137738] 11 p1662 N84-20846

DIFFRACTION TELESCOPES
U SPECTROSCOPIC TELESCOPES

DIFFRACTOMETERS
DSP1, a Diffractometer Subroutine Package for PDP-8 computers
[AD-A137458] 10 p1583 N84-20241
Improved techniques for data acquisition and analysis on X-ray diffraction equipment
[Y-2282] 23 p3750 N84-33774

DIFFUSE RADIATION
A study of depletion in low-velocity diffuse interstellar gas 03 p0462 N84-13042
An anisotropic model of diffuse solar radiation with application to an optimization of compound parabolic collectors 05 p0765 N84-15017
Limits on diffuse X-ray emission from M101
[NASA-CR-170978] 08 p1246 N84-18147
A study of the diffuse galactic gamma radiation
[NASA-TM-86055] 08 p1247 N84-18151
Measurement and analysis of diffuse solar irradiance 13 p2091 N84-23546
Spatial fluctuations in the diffuse cosmic X-ray background, volumes 1 and 2 17 p2775 N84-27821

DIFFUSERS
Characteristics of a four nozzle, slotted mixing stack with slanted shroud, gas eductor system
[AD-A134794] 08 p1159 N84-17547

The filling effect of blockages in wide angle diffusers
[BU-284] 15 p2332 N84-25005
Introduction to unsteady flow in turbomachines
16 p2489 N84-25962
Diffuser/ejector system for a very high vacuum environment
[NASA-CASE-MRS-25791-1] 18 p2797 N84-27749

DIFFUSION
NT AMBIPOLAR DIFFUSION
NT ATMOSPHERIC DIFFUSION
NT ELECTRON DIFFUSION
NT GASEOUS DIFFUSION
NT GASEOUS SELF-DIFFUSION
NT IONIC DIFFUSION
NT MAGNETIC DIFFUSION
NT MOLECULAR DIFFUSION
NT PARTICLE DIFFUSION
NT PLASMA DIFFUSION
NT SELF DIFFUSION (SOLID STATE)
NT SPECIES DIFFUSION
NT SURFACE DIFFUSION
NT THERMAL DIFFUSION
NT TURBULENT DIFFUSION

Growth and decay of one-dimensional shock waves in chemically reacting multiphase mixtures
[DE83-011134] 01 p0060 N84-10519
Stable equilibria in a scalar parabolic equation with variable diffusion
[AD-A131221] 01 p0134 N84-10877
Mechanism switching and trapping of Triplet-Triplet energy transfer in an orientationally disordered molecular solid
[AD-A130660] 01 p0142 N84-10931
Diffusion mass transfer of KOH through Ni/Zn battery membrane separators
[DE83-014551] 03 p0367 N84-12387
Crank-Nicholson difference schemes for solving coupled systems of nonlinear diffusion equations
[IPP-6/223] 03 p0424 N84-12776
Diffusivities of hydrogen in yttrium and yttrium alloys
[DE84-000411] 04 p0503 N84-13296
Diffusion and sorption of cyclohexane vapor in SBS and SBR copolymers
[AD-A132397] 04 p0506 N84-13315
Update of pulsed-laser processing technology for high-efficiency silicon solar cells
[DE84-000638] 04 p0559 N84-13684
Atmospheric dispersion of ammonia: An ammonia fog model
[DE84-000165] 04 p0560 N84-13689
Study on diffusion of the vertical magnetic field in the toroidal stabilizing shell of the ZT-40M reversed-field-pinch device
[DE83-016353] 04 p0610 N84-14023
Effects of simultaneous phosphorus and arsenic diffusions on emitter push and dislocation generation
[AD-A132331] 04 p0612 N84-14042
Arrays of very small voltammetric electrodes based on reticulated vitreous carbon
[AD-A134031] 05 p0674 N84-14426
Stabilization of solutions for a class of parabolic integro-differential equations
[AD-A132821] 05 p0736 N84-14837
Radiation transport in numerical astrophysics
[DE84-002011] 05 p0763 N84-15008
Surface segration and diffusion investigations by means of AES
06 p0816 N84-15319
Microinstabilities in the high latitude F region: A brief review
[DE84-001709] 06 p0879 N84-15719
Ion-beam analysis and ion implantation in the study of diffusion
[DE84-000354] 06 p0924 N84-16008
Discharge kinetics of the nickel electrode
[AD-A134389] 07 p0970 N84-16283
Diffusion on viscous fluids, existence and asymptotic properties of solutions
[AD-A134538] 07 p1063 N84-16891
Multigrid methods for problems with a small parameter in the highest derivative
[MC-NW-158/83] 07 p1066 N84-16920
Vacuum ionic carburisation
[BLL-OA-TRANS-3149-(6196.3)]
08 p1122 N84-17291
Study of ion bombardment-induced subsurface compositional modifications in Ni-Cu alloys at elevated temperatures by ion scattering spectroscopy
[DE84-003632] 08 p1135 N84-17380
Estimation techniques for transport equations
[AD-A135092] 08 p1218 N84-17945
Fast diffusion of iron in single crystal rutile and iron doped rutile
[DE84-004021] 08 p1236 N84-18079
Atomic transport in metallic glasses
[AD-A136363] 09 p1282 N84-18373
Migration of grain boundaries in ceramic materials with particular reference to the sintering process
[DE84-004086] 09 p1289 N84-18414
Double-injection, deep-impurity switch development
[NASA-CR-168395] 09 p1306 N84-18536
Diffusion of particulate matter and wind speed profile in planetary boundary layer
[AD-A135961] 09 p1345 N84-18790
A singular free boundary problem
[AD-A136325] 09 p1373 N84-18967
Simulation of edge effects in electroanalytical experiments by orthogonal collocation. Part 4: Application to voltammetric experiments
[AD-A136968] 10 p1455 N84-19500
Diffusion of gases in porous solids: Simulations and measurements
[DE84-004146] 10 p1494 N84-19771
Chemical application of diffusion quantum Monte Carlo
10 p1580 N84-20218
Impurity transport in Tokamaks
11 p1734 N84-21312
Transport properties of selected metal oxides
11 p1740 N84-21356
Atom-jump versus continuous models for fast ion conduction
11 p1741 N84-21357
AC measurements on fuel cells and fuel cell components
11 p1741 N84-21362
Oxygen exchange measurements on zirconia-yttria electrolyte surfaces modified by various dopants
11 p1742 N84-21367
Measurement of diffusion constant by pulsed magnetic field gradient NMR in Ag26I13W4O16 RbAg4I5 and KAg4I5
11 p1743 N84-21373
Chemical application of diffusion quantum Monte Carlo
[DE84-005173] 11 p1746 N84-21393
Review of hydrogen isotope permeability through materials
[DE84-007362] 12 p1794 N84-21696
Diffusional anomalies in deformed metals
[BLL-M-35490-(5828.4)] 12 p1795 N84-21708
Ion plating of coatings made from high melting point metals
[BLL-RISLEY-TRANS-4879] 12 p1796 N84-21715
Diffusion barriers 12 p1839 N84-21967
A boundary modulus of continuity for a class of singular parabolic equations
[AD-A138019] 12 p1893 N84-22331
Study of defects produced by the growth, post treatment and fabrication of quartz
[AD-A138327] 12 p1914 N84-22471
The effect of diffusion induced lattice stress on the open-circuit voltage in silicon solar cells
[NASA-TM-83667] 13 p2008 N84-23027
Investigation of structure-permeability relationships of silicone polymer membranes
[PB84-160977] 14 p2130 N84-23771
Pressure induced radial diffusion of a fluid through a thick walled highly elastic cylinder
15 p2313 N84-24881
Hydrogen attack mechanisms in a 2-1/4 Cr1 Mo welded steel
16 p2464 N84-25789
Environment-independent homogenized parameters for neutron diffusion in non-symmetric slabs
[CISE-2117] 16 p2555 N84-26382
Ion implantation metallurgy: A study of the composition, structure and corrosion behavior of surface alloys formed by ion implantation and ion beam mixing
[AD-A140713] 17 p2624 N84-26792
Study of the numerical solution of some diffusion problems using the finite element method
[INPE-3003-TDL/154] 17 p2757 N84-27504
Comment on corrected diffusion approximations in certain random walk problems'
[AD-A140923] 17 p2759 N84-27519
Brookhaven National Laboratory Coastal Meteorology Program, 1972-1983
[DE84-006584] 18 p2891 N84-28349
Corrected diffusion approximations to first passage times
[AD-A140940] 18 p2925 N84-28548
Flux diffusion and acceleration in a high current modified betatron
[AD-A141277] 18 p2931 N84-28584
Oxygen diffusion in alpha-Al2O3
[NASA-TM-83822] 19 p2997 N84-28990
Process research of non-CZ silicon material
[NASA-CR-173759] 19 p3050 N84-29353
Scientific analysis of existing data on aerosol dispersion and transport in a mountain valley
[AD-A142013] 20 p3238 N84-30555
Applied mathematics of transport theory
[DE84-011498] 20 p3282 N84-30838
Cation self-diffusion in Fe2O3
[DE84-009152] 20 p3310 N84-31025
Preliminary engineering report for design of a subscale ejector/diffuser system for high expansion ratio space engine testing
[NASA-CR-171137] 21 p3354 N84-31273
Overlay coating degradation by simultaneous oxidation and coating/substrate interdiffusion
[NASA-TM-83738] 21 p3365 N84-31344
Environment and fracture
[DE84-011454] 21 p3367 N84-31360
Development of a global model for atmospheric backscatter at CO2 wavelengths
[NASA-CR-171127] 21 p3442 N84-31837
Raman investigation of the rate of OH uptake in stressed and unstressed optical fibers
[AD-A143142] 21 p3498 N84-32172
Point defects and diffusion mechanisms in the monoxides of the iron-group metals
[DE84-012105] 21 p3505 N84-32210
Generalization of results of electro-simulation of temperature of the piece during centrifugal cladding
[BLL-M-35687-(5828.4)] 22 p3551 N84-32479
Topochemical reactions and the Stefan problem
[BLL-M-35671-(5828.4)] 22 p3553 N84-32501
Molten carbonate fuel cell performance model update
[DE84-012932] 22 p3589 N84-32733
Report of tests of a compressor configuration of CD (Controlled Diffusion) blading
[AD-A143499] 22 p3604 N84-32832
Experimental and model transport and diffusion studies in complex terrain with emphasis on tracer studies
[DE84-013076] 22 p3626 N84-32975
Flat-plate solar array project process development area, process research of non-CZ silicon material
[NASA-CR-173926] 23 p3786 N84-34012
Diffusion profiles in microgravity protein crystallization experiments — Spacelab 23 p3805 N84-34125
The density distribution of galactic cosmic rays allowing for the generalized tensor of anisotropic diffusion and for the real distribution of solar activity
24 p3994 N84-35275

DIFFUSION BONDING
U DIFFUSION WELDING

DIFFUSION COEFFICIENT
Transport and relaxation processes in supercritical fluids
[DE83-015966] 03 p0373 N84-12432
Diffusion measurements in microemulsions
[AD-A133801] 05 p0648 N84-14265
Neoclassical transport associated with collisionless detrapping in a bumpy torus
[IPPJ-651] 10 p1580 N84-20350
On the horizontal and vertical variability of the vertical turbulent eddy diffusion coefficients in the mesosphere
[AD-A137877] 11 p1687 N84-21002
Transport of a multiple-ion species plasma in the collisionless regime in a bumpy torus
[IPPJ-657] 11 p1734 N84-21307
Transport properties of fluorite oxides
11 p1740 N84-21355
Diffusional anomalies in deformed metals
[BLL-M-35490-(5828.4)] 12 p1795 N84-21708
Ostwald ripening, interfacial energies and diffusion coefficients in monotectic systems
17 p2613 N84-26727
Fugacity of gaseous hydrogen
[NLR-MP-83038-U] 17 p2669 N84-27019
Anisoptropic diffusion kinetics of metals and carbides in pyrolytic graphite
[BLL-CTO-2261-(9091.9F)] 19 p2991 N84-28953
Transient and diffusion analysis of HgCdTe
[NASA-CR-162049] 20 p3152 N84-30015
Diffusion transfer during near-sonic turbulence
21 p3486 N84-32090
Development of particle sizing for highly concentrated colloidal dispersions using photon correlation spectroscopy
[BMFT-FB-T-84-117] 23 p3716 N84-33553
Hot isostatic pressing of ceramic powder compacts
[AD-A144123] 24 p3888 N84-34621

DIFFUSION EFFECT
U DIFFUSION

DIFFUSION ELECTRODES
Study of the initial stages of anodic oxidation of polycrystalline silver in KOH solutions
[AD-A138381] 12 p1793 N84-21694
Cathodic stripping voltammetry of thioamides on a rotating silver disk electrode
[AD-A139200] 14 p2122 N84-23718

DIFFUSION FLAMES
Similarity analysis of the flow characteristics in diffusion flames 04 p0513 N84-13367
Prediction of an apparent flame length in a co-axial jet diffusion flame combustor
[AD-A135088] 08 p1123 N84-17303

Structure, inhibition and extinction of polymer diffusion flames
[PB84-101336] 08 p1127 N84-17327
Saturated laser fluorescence in turbulent sooting flames at high pressure 11 p1612 N84-20551
Combustor flame flashback 11 p1614 N84-20561
Applications of laser scattering probes to turbulent diffusion flames
[AD-A138207] 12 p1792 N84-21685
Ultraviolet OH emissions in H2-air diffusion flames 13 p1942 N84-22629
Stability of plane near-equidiffusional flames without invoking the constant-density approximation
[AD-P002972] 14 p2201 N84-24208
Soot formation in diffusion flames 15 p2291 N84-24750
Formation and destruction of organic pollutants in thermal systems and flames 15 p2291 N84-24752

DIFFUSION THEORY
Corrected diffusion approximations and their applications
[AD-A136384] 09 p1374 N84-18974
Experimental studies on plasma confinement in Nagoya bumpy torus
[IPPJ-655] 10 p1580 N84-20355
On the plasma physics on the beam plasma discharge
[AD-A139265] 14 p2228 N84-24361
Super upwinding elements of doubt and discrete differences of opinion on the numerical muddling of the incomprehensible defective confusion equation 19 p3025 N84-29188
Environmental impact research program. An implicit, wiggle-free, and accurate upstream finite-difference algorithm for the 1-dimensional transport-diffusion equation
[AD-A143141] 21 p3436 N84-31802

DIFFUSION WELDING
Optimum microstructures for SPF (superplastic forming) using hydrovac
[AD-A130944] 01 p0044 N84-10280
Thermal stability of four high-strength, high-conductivity copper sheet alloys
[DE83-013312] 01 p0045 N84-10288
Diffusion films produced by heat treatment of electroplated coatings
[BLL-OA-TRANS-3082-(6196.3)] 06 p0804 N84-15237
Superplastic transformation and diffusion welding of titanium alloys 14 p2094 N84-23562
Chemical vapor deposition and reactive diffusion of boron on beryllium
[AD-D011043] 19 p2995 N84-28976
Optimization of initial microstructures of OT4-1 alloy elements joined by diffusion welding 24 p3875 N84-34558

DIFFUSIVITY
Transport of water in frozen soil. I: Experimental determination of soil-water diffusivity under isothermal conditions
[AD-A135419] 08 p1177 N84-17671
Stray light analysis of the Diffuse Infrared Background Experiment (DIRBE)
[NASA-CR-175225] 16 p2575 N84-26529
Carbon, oxygen and their interaction with intrinsic point defects in solar silicon ribbon material: A speculative approach
[NASA-CR-173758] 18 p2870 N84-28221

DIFLUORIDES
NT CALCIUM FLUORIDES
NT FLUORSPAR

DIFLUORO COMPOUNDS
NT PERFLUOROALKANE
NT POLYTETRAFLUOROETHYLENE

DIGESTING
Biological chemistry 06 p0796 N84-15190

DIGESTIVE SYSTEM
NT GASTROINTESTINAL SYSTEM
NT STOMACH
NT TEETH

DIGITAL COMMAND SYSTEMS
Direct digital control of the electric arc furnace
[RR-233] 13 p1974 N84-22611
Adaptive correction of control machines
[ISD-301] 16 p2484 N84-25929

DIGITAL COMMUNICATION
U PULSE COMMUNICATION

DIGITAL COMPUTERS
NT CDC CYBER 170 SERIES COMPUTERS
NT CDC CYBER 174 COMPUTER
NT CDC CYBER 203 COMPUTER
NT CDC 6000 SERIES COMPUTERS
NT CDC 6600 COMPUTER
NT CDC 6700 COMPUTER
NT CDC 7600 COMPUTER
NT HEWLETT-PACKARD COMPUTERS
NT MICROCOMPUTERS
NT MINICOMPUTERS
NT PARALLEL COMPUTERS
NT PDP COMPUTERS
NT PDP 8 COMPUTER
NT PDP 11 COMPUTER
NT PDP 11/70 COMPUTER
NT PERSONAL COMPUTERS
NT UNIVAC 1100 SERIES COMPUTERS
NT VAX-11 SERIES COMPUTERS
NT VAX-11/780 COMPUTER
Communications Support Processor (CSP)
[AD-A130360] 01 p0064 N84-10419
Full authority digital electronic engine controls and their integration with flight control systems in VSTOL aircraft 03 p0316 N84-12064
Digital computer program for generating dynamic turbofan engine models (DIGTEM)
[NASA-TM-83448] 07 p0954 N84-16185
Real-time digital processing of SAR data 07 p0969 N84-16408
Reasons for numerical errors in digital computers
[DFVLR-MITT-83-13] 07 p1056 N84-16839
Computer programs for helicopter high speed flight analysis
[AD-A136376] 09 p1255 N84-18191
Verification of hardware design correctness: Symbolic execution techniques and criteria for consistency
[AD-A136466] 09 p1365 N84-18912
A comparison of the Cellular Logic Image Processor (CLIP) 4; Distributed Array Processor (DAP) and Massively Parallel Processor (MPP) processor-array implementations
[NLR-MP-82054-U] 09 p1366 N84-18917
Position determination with Loran-C triplets using the Hewlett-Packard HP-67C, the Sharp PC-1500 (TRS-80 PC-2) or the Radio Shack TRS-80 model 100 portable computers
[AD-A137009] 10 p1426 N84-19327
CYBER 200 Applications Seminar
[NASA-CP-2295] 10 p1558 N84-20208
Mathematical models for damageable structures
[AD-A136574] 10 p1572 N84-20298
Interactive wire-frame ship hullform generation and display 12 p1874 N84-22209
Comparing the NYU Ultracomputer with other large-scale parallel processors
[DE84-006043] 12 p1878 N84-22239
Investigation of the numerical method of moments for digital computer determination of Green's functions
[AD-A138374] 12 p1894 N84-22339
C3I modeling and simulation
[AD-A139264] 14 p2140 N84-23830
TLINES: A computer program for circuits of transmission lines
[AD-A139596] 14 p2142 N84-23844
The optimization of GMC over GF(p)
[AD-P002373] 14 p2195 N84-24164
Considerations involved in the design of an optical digital computer 14 p2239 N84-24444
Design of a complete multivariable digital flight control system
[AFIT/GE/EE/82D-18] 15 p2253 N84-24532
Fault tolerant spaceborne computer 15 p2266 N84-24607
Polarization utilization in radar target reconstruction: C-wide (Multi-frequency) band relationship of a target's characteristic operators with its unique set of natural eigenfrequencies
[AD-A140092] 15 p2321 N84-24938
The future of computing technology in physics: The potentials and pitfalls
[DE84-007249] 15 p2389 N84-25330
Strapdown system algorithms 16 p2446 N84-25694
A mathematical model of the cardiovascular system under +Gz stress 16 p2537 N84-26290
Application of supercomputers to computational aerodynamics
[NASA-TM-85965] 16 p2785 N84-27680
The forecasts of computers and the policy-making of China
[AD-A141557] 19 p3072 N84-29488
A comparative study of linear array synthesis technique using a personal computer
[AD-P003500] 21 p3383 N84-31468
Thinking big
[DE84-007412] 21 p3462 N84-31951
Implementation of INTERLISP on the VAX
[AD-A141707] 21 p3465 N84-31967
Optoelectronic programmable logic arrays 24 p3941 N84-34948

DIGITAL DATA
Information retrieval research support
[AD-A131990] 03 p0459 N84-13022
Digital communications over satellite channels 05 p0664 N84-14365
900 km of digital ocean wave spectra from the SEASAT SAR 07 p0990 N84-16415
APQ-102 imaging radar digital image quality study
[NASA-CR-171736] 08 p1143 N84-17435
Jam-resistant speech encoding
[AD-A134707] 08 p1145 N84-17448
TIGS (table plot interactive graphics system)--an interactive graphical system for the creation and correction of tabular data sets
[AD-A135522] 08 p1212 N84-17906
A model for ordinal filtering of digital images
[AD-A134705] 08 p1232 N84-18052
Zooming and smoothing images using convolution procedures
[AD-A135659] 09 p1372 N84-18957
A classification algorithm for star-galaxy counts 09 p1409 N84-19207
NOAA position for TM data distribution 10 p1524 N84-19981
CCRS option for TM data distribution 10 p1524 N84-19982
Land use and land cover digital data
[GS-CIRC-895-E] 10 p1525 N84-19987
Digital signal processing in computer aided cartography
[SER-C-278-MITT-163] 10 p1526 N84-19998
The use of remote sensing for soils investigations on BLM lands
[PB84-132075] 10 p1527 N84-20005
Analysis and classification of mesoscale cloud and precipitation systems
[PB84-138999] 10 p1542 N84-20104
SANDUS MA164 digital data acquisition system specifications, November 8, 1982
[DE84-006502] 11 p1704 N84-21110
Registration of TM data to digital elevation models 13 p2004 N84-22999
LANDSAT 4 investigations of Thematic Mapper and multispectral scanner applications --- Death Valley, California; Silver Bell Copper Mine, Arizona, and Dulles Airport near Washington, D.C.
[E84-10100] 13 p2004 N84-23003
Experiments to correct a digital map data base using scene analysis
[AD-A139447] 14 p2248 N84-24499
Analysis of the quality of image data acquired by the LANDSAT-4 Thematic Mapper and Multispectral Scanners
[E84-10137] 16 p2506 N84-26085
Multiseasonal variables in digital image enhancements for geological applications
[E84-10145] 16 p2508 N84-26093
Integration of LANDSAT land cover data into the Saginaw River basin geographic information system for hydrologic modeling
[AD-A140185] 16 p2510 N84-26106
Development of a digital mapping program at the Defense Mapping Agency
[AD-A140329] 16 p2511 N84-26113
Analysis of operation of frequency synthesizer of television receiver with micro-electronic computer in a control circuit 17 p2632 N84-26840
Contextual classification of remotely sensed data 17 p2706 N84-27245
Heads up display
[NASA-CASE-LAR-12630-1] 18 p2795 N84-27733
Photographic memory: The storage and retrieval of data 18 p2843 N84-28053
RIMSTAR: Rapid image scanning technology and archiving 18 p2843 N84-28055
Computer simulation of the effects of transmission-averaging in microdensitometry 18 p2843 N84-28056
Memory-based parallel data output controller
[NASA-CASE-GSC-12447-2] 18 p2916 N84-28491
Noise reduction and line following in multiscanned data --- digital data 19 p3039 N84-29283
TM digital image products for applications 20 p3206 N84-30371
A preliminary analysis of LANDSAT-4 Thematic Mapper radiometric performance 20 p3208 N84-30379
Data integrity factors affecting the construction of the mapping, charting, and geodesy data base
[NASA-CR-173835] 20 p3228 N84-30511
Digital transmission: 68Mbit/s pal field trial system
[BBC-RD-1984/5] 21 p3381 N84-31455
Analysis of modern analog and digital communication channels from a manager's perspective
[AD-A143161] 21 p3387 N84-31494
MAGSAT correlations with geoid anomalies --- western Gulf of Mexico
[E84-10174] 21 p3427 N84-31736
TM digital image products for applications — computer compatible tapes
[E84-10178] 21 p3428 N84-31749

Relative radiometric calibration of LANDSAT TM reflective bands
[EB4-10179] 21 p3428 N84-31750
TM digital image products for applications — computer compatible tapes
[EB4-10183] 21 p3429 N84-31754
DMA (Defense Mapping Agency) policy for digital MC and G (Mapping, Charting, and Geodesy) support of advanced systems
[AD-A142746] 21 p3430 N84-31765
DMA (Defense Mapping Agency): The digital revolution
[AD-A142787] 21 p3431 N84-31767
An approach to a standardized simulator data base
[AD-P003469] 21 p3511 N84-32244
Design of a digital telemetry data collection system
[DE84-013016] 22 p3541 N84-32420
Peculiarities in construction of optical receivers for digital fiber-optic communication lines
22 p3568 N84-32596
Coherent digital demodulation of a residual carrier signal using IF sampling 22 p3574 N84-32634
MAGSAT correlations with geoid anomalies — magnetic anomalies in the western Gulf of Mexico
[EB4-10190] 22 p3613 N84-32894
Computer calculated analysis of subsurface formation porosities in central New York state
22 p3620 N84-32941
Quantitative analysis of satellite infrared imagery using digital storage equipment
[INPE-2978-PRE/440] 22 p3639 N84-33074
Degrees of adjacency or surroundedness
[AD-A143528] 22 p3646 N84-33118
A dual digital to video converter and color video inserter for avionics symbology and messages
[AD-A143772] 23 p3693 N84-33408
Millimeter wave communications
[AD-A144636] 24 p3895 N84-34669
Radar analyses of mesoscale meteorological phenomena during the AVE/VAS correlation field experiment 24 p3932 N84-34889

DIGITAL FILTERS
NT FIR FILTERS
Signal-processing capabilities of a computerized ultrasonic scanning bridge
[DE83-013708] 01 p0085 N84-10553
Development of new integrated concepts for digital color video processing
[BMFT-FB-T-83-079] 02 p0210 N84-11375
Nonlinear filter system for image preprocessing
[BMFT-FB-DV-83-001] 02 p0274 N84-11796
Approximation methods in multidimensional filter design and related problems encountered in multidimensional system design
[AD-A131316] 02 p0280 N84-11836
Automated design of microprocessor-based digital filters
[AD-A132214] 04 p0581 N84-13832
Optimal approximation algorithms for digital filter design 05 p0673 N84-14420
Adaptive protection of detecion systems operating by spread spectrum 06 p0668 N84-15652
Design and microprocessor-based implementation of digital frequency selective filters for application in terrain roughness identification
[AD-A133459] 06 p0697 N84-15826
Maximum entropy linear prediction method
[FUB-48-1982] 06 p0902 N84-15857
Input filter compensation for switching regulators
[NASA-CR-173247] 07 p0996 N84-16459
Preliminary study of (2-D) digital filtering for dealiasing NOSS wind direction data
[NASA-CR-173147] 07 p1036 N84-16721
Investigation of design considerations for a complex demodulation filter
[NASA-CR-173295] 08 p1107 N84-17195
A parallel VLSI architecture for a digital filter using a number theoretic transform 09 p1400 N84-19141
Frequency domain digital filtering with VLSI
09 p1400 N84-19142
Digital signal processing structures for VLSI
09 p1401 N84-19149
An overview of recursive least squares estimation and lattice filters
[AD-A137554] 11 p1713 N84-21166
Clutter cancellation techniques for use in a space-based radar system
[AD-A136467] 12 p1806 N84-21784
Study of finite word length effects in some special classes of digital filters
[AD-A136062] 12 p1877 N84-22232
On-line preprocessing of gray scale images
[BMFT-FB-DV-83-004] 12 p1909 N84-22435
State-space structures for the realization of low roundoff noise digital filters 13 p1987 N84-22900
Pulse-train residue arithmetic circuit using multiple-valued charge-coupled devices and its application to digital filter
[AD-P002345] 14 p2191 N84-24136
ACSL (Advanced Continuous Simulation Language) simulation of a third order Butterworth filter using implementations derived from both Z and S domain representations
[AD-A140302] 16 p2545 N84-26335
Microprocessor parallel processing for digital filters
17 p2634 N84-26854
Complementary code and digital filtering for detection of weak VHF radar signals from the mesoscale — SOUSY-VHF radar, Harz Mountains, Germany
17 p2690 N84-27134
Coherent integration 17 p2695 N84-27162
The discrete prolate spheroidal filter as a digital signal processing tool 17 p2696 N84-27174
High-speed recursive digital filter realization
[AD-A140904] 17 p2759 N84-27517
Design of wind shear filters
[NASA-TM-77460] 19 p2968 N84-28808
Filtering of the colour-difference signals in 4:2:2 YUV digital video coding systems
[BBC-RD-1984/4] 20 p3172 N84-30141
Digital filter processor design for spaceborne scatterometers 23 p3777 N84-33948
Pipelined orthogonal digital lattice filters
[AD-A143902] 23 p3818 N84-34208

DIGITAL INTEGRATORS
Numerical orbit generators of artificial earth satellites
[INPE-3050-RPE/455] 16 p2455 N84-25740
Signal processing at the Poker Flat MST radar
17 p2695 N84-27169
Quantitative analysis of satellite infrared imagery using digital storage equipment
[INPE-2978-PRE/440] 22 p3639 N84-33074

DIGITAL NAVIGATION
AFTI/F-16: An integrated system approach to combat automation 06 p0773 N84-15063

DIGITAL RADAR SYSTEMS
System for computer generated images and digital radar landmass simulation systems
[MBB-UA-688-82-OE] 02 p0275 N84-11797
A compact optical pulse compressor with computer-generated holographic masks for radar applications
[AD-A132152] 04 p0522 N84-13430
The development of a digital processing system for accurate range determinations — for Teleoperator Maneuvering Systems 06 p0930 N84-16046
Analysis and classification of mesoscale cloud and precipitation systems
[PB84-138999] 10 p1542 N84-20104
High precision phase shifting techniques
[AD-A138397] 12 p1807 N84-21783
Digital radar information in the Swiss Meteorological Institute 18 p2886 N84-28319
Ku-Band rendezvous radar performance computer simulation model
[NASA-CR-171804] 22 p3576 N84-32650
High frequency radar software reference manual for product one
[PB84-194885] 22 p3578 N84-32665

DIGITAL SIMULATION
Application of high resolution satellite data to coastal zones: SPOT simulations during ecological survey of the Britanny coast 03 p0397 N84-12591
NASCAP simulations of spacecraft charging of the SCATHA satellite — NASA (spacecraft) charging analyzer program (NASCAP) 08 p1117 N84-17268
Multivariable digital flight control design for the FPCC (Flight propulsion control coupling) aircraft
[AD-A138093] 12 p1772 N84-21556
Effect of data latency upon missile accuracy
[AD-A138048] 12 p1778 N84-21600
C3I modeling and simulation
[AD-A139264] 14 p2140 N84-23830
A digital flight control system for an unstable aircraft
[BU-292] 15 p2264 N84-24594
Problem independent numerical simulation of two-phase flow in combustors 15 p2294 N84-24768
Mathematical model of power station blocks with forced circulation steam generation
[DRIC-T-7008] 15 p2389 N84-25332
Dataflow computing approach in high-speed digital simulation
[NASA-CR-173552] 15 p2389 N84-25336
Simulation of linear multivariable systems with piecewise continuous input functions and with various options for graphic representation of the results
[ESA-TT-749] 16 p2544 N84-26333
Development of simulators for guiding systems
18 p2797 N84-27750
Simulation procedure for the calculation of aircraft noise 19 p3100 N84-29692
Thematic Mapper spectral dimensionality and data structure 20 p3209 N84-30387
Investigation, development and application of optimal output feedback theory. Volume 2: Development of an optimal, limited state feedback outer-loop digital flight control system for 3-D terminal area operation
[NASA-CR-3829] 21 p3344 N84-31218
Optimal digital control of a bank-to-turn missile
[AD-A144043] 23 p3699 N84-33447
Simulation of Shuttle Imaging Radar (SIR)-B imagery over Freiburg test site 23 p3779 N84-33958
Timing performance of phased-locked loops in optical pulse position modulation communication systems
[NASA-CR-173970] 23 p3824 N84-34253
Computer program to simulate the lateral-directional response of a high performance aircraft digital electronic flight control system
[AD-A144480] 24 p3856 N84-34447
Systems analysis and computer simulation studies of the laser ranging measurement process
24 p3906 N84-34739

DIGITAL SPACECRAFT TELEVISION
Digital sound service for direct broadcasting satellites
08 p1146 N84-17462

DIGITAL SYSTEMS
NT DIGITAL NAVIGATION
NT DIGITAL RADAR SYSTEMS
Flight evaluation results from the general-aviation advanced avionics system program
[NASA-TM-84397] 01 p0007 N84-10042
Computer-Aided Design and Analysis of Digital Guidance and Control Systems
[AGARD-LS-128] 01 p0014 N84-10093
Fundamentals of analysis for digital control systems
01 p0014 N84-10094
Performance and robustness aspects of digital control systems 01 p0015 N84-10098
Direct digital design via pole placement techniques
01 p0015 N84-10099
Practical aspects of digital implementation of control laws 01 p0016 N84-10101
Survey of radar Automatic Detection and Tracking (ADT)
[AD-A130358] 01 p0064 N84-10420
Status of auto carto at the Defense Mapping Agency
[AD-A131235] 01 p0101 N84-10653
Lateral variations in geologic structure and tectonic setting from remote sensing data
[AD-A130758] 01 p0105 N84-10683
Digital transmission and visualization of meteorological satellite images
[INPE-2809-PRE/367] 02 p0239 N84-11567
A data compressor system
[INPE-2847-PRE/389] 02 p0270 N84-11766
High-speed digital signal normalization for feature identification
[NASA-TM-85719] 02 p0270 N84-11767
Probability expressions, with applications to fault testing in digital networks
[AD-A131367] 02 p0284 N84-11860
Integration of fire, flight and propulsion control systems: An overview, retrospective and prospective
03 p0315 N84-12057
Alternative transmission media for third-generation interface standards
[PB83-238345] 03 p0363 N84-12365
Standard NIM digital bus (NIM/GPIE)
[DE83-017865] 04 p0522 N84-13435
Digital instrumentation package or an improved torsion pendulum
[PB83-240424] 04 p0539 N84-13547
Fiberoptics for propulsion control system
[NASA-TM-83542] 05 p0625 N84-14111
Comparison of flight results with digital simulation for a digital electronic engine control in an F-15 airplane
[NASA-TM-84903] 05 p0630 N84-14144
Design implications from AFTI/F-16 flight test
[NASA-TM-86026] 05 p0632 N84-14157
Mathematical analysis of digital phase locked loops over fading communication channels
05 p0664 N84-14364
A clocking discipline for two-phase digital integrated circuits 05 p0677 N84-14455
High-speed videography for optical and X-ray imaging
[DE84-002272] 05 p0748 N84-14910
DEF STAN 00-18: A family of compatible digital interface standards 06 p0771 N84-15049
Validation of digital systems in avionics and flight control applications handbook, volume 1
[AD-A133222] 06 p0788 N84-15150
A study of digitally controlled flight control actuation
[AD-A133274] 06 p0791 N84-15160
Flight test experience with pilot-induced-oscillation suppression filters
[NASA-TM-86028] 07 p0958 N84-16213

Digital control system for space structural dampers
[NASA-CR-175355] 07 p0964 N84-16246
Dispersion alloys TEXUS-Experiments: TEXUS-01 B TEXUS 7, TEM-01 B — microgravity processing
[NASA-TM-77531] 07 p0973 N84-16308
System integration and interface transition issues
[AD-A134583] 07 p0994 N84-16442
Coding of color video signals for digital magnetic tape recording at low bit rates
[BMFT-FB-T-83-185] 07 p0995 N84-16450
Correlative phase modulation for fixed satellite service-s. Volume 2: Supplementary report
[PTI-SB-2363-21-3794-VOL-2] 08 p1147 N84-17466
Design and complexity of VLSI algorithms
08 p1208 N84-17876
INTAC: Digital and analog circuit test language
[INPE-2764-PRE/336] 08 p1211 N84-17898
Flight evaluation of the DEEC secondary control air-start capability
[NASA-TM-84910] 09 p1257 N84-18203
Reconfigurable multivariable control law for commercial airplane using a direct digital output feedback design
[NASA-TM-85759] 09 p1257 N84-18206
Experimental digital stereo sound with terrestrial television: Field tests from Wenvoe, October 1983
[BBC-RD-1983/19] 09 p1298 N84-18483
Method for counting errors, deletions, and additions when both transmitted and received data are known
[PB84-127620] 09 p1305 N84-18531
Development of an advanced ocean-bottom sensor system
[AD-A135901] 09 p1345 N84-18788
Reasoning about digital circuits
[AD-A136634] 09 p1365 N84-18914
Signal processing in high data rate environments. Design tradeoffs in the exploitation of parallel architectures and fast system clock rates. An overview
09 p1401 N84-19151
A comparison of arithmetic units in VLSI signal processing systems 09 p1403 N84-19165
Very large scale integration logical and physical structures of VLSI systems
[BMFT-FB-T-83-267] 10 p1488 N84-19730
The development of an airborne instrumentation computer system for flight test
[NASA-TM-86036] 11 p1607 N84-20521
INTAC: Digital and analog circuit test stations
[INPE-2741-PRE/320] 11 p1656 N84-20803
Quality metrics of digitally derived imagery and their relation to interpreter performance: 8
[AD-A137726] 11 p1660 N84-20830
Active reliability engineering, technical concept and program plan. A solid-state systems approach to increased reliability and availability in military systems
[AD-A137541] 11 p1666 N84-20866
Numerical methods for partial differential equations
[AD-A137624] 11 p1713 N84-21167
Bell System lightguide cable interconnection equipment, central office to customer premises
11 p1720 N84-21219
Field trial of composite fiber-optic overhead ground wire 11 p1720 N84-21221
Report by the Chairman of the Flight Mechanics Panel
12 p1763 N84-21495
A study of optimal computer network architecture for digital avionics systems
[AD-A138151] 12 p1770 N84-21545
Survivability design guidelines for Fly-By-Wire Flight Control Systems development
[AD-A138211] 12 p1772 N84-21557
Evaluation of a digital flight controller for a flexible-fighter aircraft
[AD-A138269] 12 p1772 N84-21558
Development of a communications Front End Processor (FEP) for the VAX-11/780 using an LSI-11/23
[AD-A138152] 12 p1807 N84-21778
Single circuit board implementation of a Digitally Compensated SAW Oscillator (DCSO)
[AD-A138313] 12 p1812 N84-21812
Modeling concepts for communication of geometric shape data 12 p1875 N84-22217
Employment of adaptive learning techniques for the discrimination of acoustic emissions
[AD-A138142] 12 p1899 N84-22366
Ordered address binary trees: A technique for the optimization of access to trees on disk
[INPE-2916-PRE/428] 13 p2026 N84-23133
A circuit design for multiplexed digital correlation at 60 MHz
[AD-A139117] 14 p2142 N84-23842
Mx, A mix-valued algebra
[AD-P002371] 14 p2195 N84-24162
A digital flight control system for an unstable aircraft
[BU-292] 15 p2264 N84-24594
Multipath outage performance of digital radio receivers using finite-tap adaptive equalizers
15 p2324 N84-24955
LSI/VLSI (Large Scale Integration/Very Large Scale Integration) ion implanted GaAs (Gallium Arsenide) IC processing
[AD-A139676] 15 p2328 N84-24979
LSI/VLSI (Large Scale Integration/Very Large Scale Integration) ion implanted GaAs (Gallium Arsenide) IC processing. Appendix A: Feasibility analysis of Gallium-Arsenide mask programmable functions and logic arrays for high performance communications systems
[AD-A139677] 15 p2328 N84-24980
LSI/VLSI (Large Scale Integration/Very Large Scale Integration) ion implanted GaAs (Gallium Arsenide) IC processing. Appendix B: Two-dimensional modeling of GaAs MESFET devices for integrated high-speed logic circuits
[AD-A139678] 15 p2328 N84-24981
Digital microwave system design guide
[AD-A139738] 15 p2329 N84-24982
Photogrammetric research
[TRITA-FMI-47] 15 p2358 N84-25146
Mathematical aspects of digital terrain information. A progress report from ISPRS Working Group III:3
15 p2358 N84-25148
Design of interactive graphics for Digital Elevation Model (DEM) sampling 15 p2358 N84-25149
The question of accuracy in the transition from analogue to analytic photogrammetry 15 p2359 N84-25153
Ionospheric research using digital ionsondes
[AD-A140012] 15 p2368 N84-25210
Implementation of the sign-logarithm arithmetic FFT
[AD-A139355] 15 p2396 N84-25373
Computer-assisted chromosome analysis
15 p2430 N84-25590
Digital image processing of muscle biopsies
15 p2430 N84-25593
Full Authority Digital Engine Control (FADEC)
[SNIAS-832-111-101] 16 p2450 N84-25714
Digital Image Processing in Fluid Dynamics
[VKI-LS-1984-03] 16 p2490 N84-25973
Digital image processing and analysis
16 p2490 N84-25974
Optical processing 16 p2490 N84-25975
Planning an experiment for digital image processing
16 p2490 N84-25976
Post-processing: Extracting and displaying useful information from digital images
16 p2491 N84-25977
Compacted virtual search tree and addressed ordered binary trees for file organization
[INPE-3075-TDL/161] 16 p2548 N84-26349
The Fairchild Digital Flight Recorder (DFR) F 800
17 p2586 N84-26576
Requirements to be met by parameters of high-definition television systems for cinematography
17 p2633 N84-26841
How to check line channel of IKM-15 digital pulse-code-modulation transmission system
17 p2633 N84-26842
Upset susceptibility study employing circuit analysis and digital simulation
[NASA-TM-85822] 17 p2733 N84-27374
Design methodology for real-time distributed systems
[AD-A140686] 17 p2754 N84-27478
Interactive flight control system analysis program
[NASA-CR-172352] 19 p2966 N84-28807
Perceived C/U ratio measuring equipment for TV ghost images
[NHK-LABS-NOTE-300] 19 p3003 N84-29036
Registration of a LANDSAT image to DTM (Digital Terrain Matrix): An error analysis
[AD-A141766] 19 p3041 N84-29297
Digital systems design language. Design synthesis of digital systems
[NASA-CR-162032] 19 p3073 N84-29499
LCAP2 (Linear Controls Analysis Program). Volume 3: Source code description
[AD-A141386] 19 p3075 N84-29512
Effect of control logic modifications on airstart performance of F100 engine model derivative engines in an F-15 airplane
[NASA-TM-85900] 20 p3130 N84-29879
Filtering of the colour-difference signals in 4:2:2 YUV digital video coding systems
[BBC-RD-1984/4] 20 p3172 N84-30141
Performance of digital communications over selective fading channels
[AD-A142427] 20 p3174 N84-30158
A method of measuring distortion noise in digital audio equipment
[NHK-LABS-NOTE-298] 20 p3177 N84-30174
Two-way unidirectional condenser microphone
[NHK-LABS-NOTE-297] 20 p3177 N84-30175
A simulation program with latency exploitation for the transient analysis of digital circuits
[AD-A142377] 20 p3177 N84-30181
Application of JOVIAL (J-73) to digital flight controls
[AD-P003525] 21 p3330 N84-31129
Standards and integrated avionic digital system architecture
[AD-P003561] 21 p3336 N84-31166
Digital avionics design for validation
[AD-P003571] 21 p3337 N84-31176
Investigation, development and application of optimal output feedback theory. Volume 2: Development of an optimal, limited state feedback outer-loop digital flight control system for 3-D terminal area operation
[NASA-CR-3829] 21 p3344 N84-31218
Digital control system for space structural dampers
[NASA-CR-173867] 21 p3353 N84-31267
Results of investigation of adaptive speech codes
21 p3376 N84-31428
Digital transmission: 68Mbit/s pal field trial system
[BBC-RD-1984/5] 21 p3381 N84-31455
Analysis of modern analog and digital communication channels from a manager's perspective
[AD-A143161] 21 p3387 N84-31494
Automatic digital battery cell capacitance measurements
[AD-A143143] 21 p3392 N84-31523
Fundamental remote science research program. Part 2: Status report of the mathematical pattern recognition and image analysis project
[NASA-TM-58260] 21 p3430 N84-31762
DMA (Defense Mapping Agency): The digital revolution
[AD-A142787] 21 p3431 N84-31767
A wide field-of-view CRT projection system with optical feedback for self alignment
[AD-P003447] 21 p3508 N84-32224
Image generator architectures and features
[AD-P003449] 21 p3508 N84-32226
An approach to a standardized simulator data base
[AD-P003489] 21 p3511 N84-32244
Synthetic aperture radar simulation
[AD-P003474] 21 p3512 N84-32246
Digital control loading: A microprocessor-based approach
[AD-P003483] 21 p3512 N84-32250
A flight-test and simulation evaluation of the longitudinal final approach and landing performance of an automatic system for a light wing loading STOL aircraft equipped with wing spoilers
[NASA-TM-85873] 22 p3537 N84-32393
Underwater depth telemetry
[AD-D011054] 22 p3541 N84-32418
Peculiarities in construction of optical receivers for digital fiber-optic communication lines
22 p3568 N84-32596
Coherent digital demodulation of a residual carrier signal using IF sampling 22 p3574 N84-32634
Digital multi-tapped delay line with automatic time-domain programming
[AD-D011136] 22 p3581 N84-32676
Photodigitizing procedures
[AD-A143589] 22 p3599 N84-32793
The use of pipeline techniques in the architecture of digital processors employed in real time applications
[INPE-2992-TDL/153] 22 p3639 N84-33075
A dual digital to video converter and color video inserter for avionics symbology and messages
[AD-A143772] 23 p3693 N84-33408
Propulsion control experience used in the Highly Integrated Digital Electronic Control (HIDEC) program
[NASA-TM-85914] 23 p3695 N84-33415
Applique rate converter
[AD-D011161] 23 p3751 N84-33777
A high resolution system for analogue recording and digital processing of measured values in fusion research
[JUEL-1909] 23 p3752 N84-33786
Flight testing a digital flight control system: Issues and results 24 p3848 N84-34403
The development of an airborne instrumentation computer system for flight test 24 p3851 N84-34421
Thomson develops new optical reader, digital switching system: Gigadisc reader recorder
24 p3891 N84-34636
An analysis of coherent digital receivers in a jamming environment
[AD-A144441] 24 p3895 N84-34667
Research in the design of high-performance reconfigurable systems
[NASA-CR-173998] 24 p3942 N84-34957
Device for measuring oxygen
24 p3961 N84-35083

DIGITAL TECHNIQUES

The effects of solar incidence angle over digital processing of LANDSAT data
[E84-10007] 01 p0099 N84-10641

Land cover change monitoring within the east central Louisiana study site: A case for large area surveys with LANDSAT multispectral scanner data
[E84-10031] 02 p0238 N84-11582
Method in the generation of a real-time interactive display
[DE83-013523] 02 p0274 N84-11789
Digital image processing
[INPE-2873-PRE/402] 02 p0277 N84-11816
Flight test validation of a design procedure for digital autopilots 03 p0312 N84-12036
Digital instrumentation package or an improved torsion pendulum
[PB83-240424] 04 p0539 N84-13547
Digital audio: Dynamic range control of digital audio signals
[BBC-RD-1983/17] 05 p0665 N84-14374
The impact of the F/A-18 aircraft digital flight control system and displays on flight testing and safety 06 p0777 N84-15091
Digital communication in the presence of impulsive noise 06 p0827 N84-15392
Input-output characterization of an ultrasonic testing system by digital signal analysis
[NASA-CR-3756] 06 p0854 N84-15565
F-region variability and HF-propagation 06 p0869 N84-15658
A digital ferrite phase-shifter for high power S-band operation 06 p0906 N84-15886
Reflectance measurements, part 2 06 p0926 N84-16028
Low-ionization emission regions in the nuclei of spiral galaxies 06 p0939 N84-16100
Digital computer program for generating dynamic turbofan engine models (DIGTEM)
[NASA-TM-83446] 07 p0954 N84-16185
Crop identification of SAR data using digital textural analysis 07 p0968 N84-16404
Performance evaluation of the JPL interim digital SAR processor 07 p0969 N84-16407
Measurement errors in TDC's using digital techniques
[DE84-002133] 07 p1006 N84-16537
Segmented testing
[NASA-CR-173186] 07 p1058 N84-16855
Use of digitized radar and microcomputers to forecast local floods and irrigation needs
[PB84-105566] 08 p1192 N84-17767
Flight evaluation of the DEEC secondary control air-start capability
[NASA-TM-84910] 09 p1257 N84-18203
A methodology for digital processing of geographic and cartographic data
[AD-A135835] 09 p1337 N84-18730
A range of combined error corection and recording channel code schemes
[BBC-RD-1983/16] 11 p1642 N84-20732
Testing techniques involved with the development of high shock acceleration sensors
[AD-P002693] 11 p1680 N84-20828
Multipath link and modem design for satellite mobile communications
[ESA-CR(P)-1833] 12 p1809 N84-21793
Applications of coding to spread spectrum communications 13 p1976 N84-22829
Generalized adaptive node concept 13 p1977 N84-22833
Determination of cloud parameters for NEROS 2 from digital satellite data
[PB84-162601] 14 p2182 N84-24075
Geometric interpretations of the Discrete Fourier Transform (DFT)
[NASA-TP-2332] 14 p2189 N84-24114
Efficient realizations in hardware implementations for digital signal processing
[AD-A139112] 14 p2202 N84-24218
Lewis Research Center spin rig and its use in vibration analysis of rotating systems
[NASA-TP-2304] 15 p2260 N84-24578
Digital video transmission with reduced frame repetition rate and movement-adapted frame-to-frame interpolation
[AD-B075822] 15 p2318 N84-24915
Nanosequencer digital logic controller
[NASA-CASE-NPO-16116-1] 15 p2385 N84-25306
Geometrical transformation of binary images
[FOA-C-30342-E1] 15 p2397 N84-25380
Two-dimensional fast Fourier transforms in image processing
[AD-A139997] 15 p2398 N84-25390
Uninstalled aero engine testing in operation in the Royal Air Force 16 p2453 N84-25731
Goldstone R/D high speed data acquisition system 16 p2480 N84-25899
Digital analysis of pulse code modulated signals in telecommunications channels 16 p2483 N84-25922
Irrigated rice area estimation using remote sensing techniques: Project's proposal and preliminary results — Rio Grande do Sul, Brazil
[E84-10131] 16 p2506 N84-26081
Digital processing of LANDSAT data for the preparation of a land use map of the rural district surrounding Tuebingen to a scale of 1:50000
[ESA-TT-816] 16 p2509 N84-26104
Interactive digital image processing for terrain data extraction, phase 4
[AD-A140197] 16 p2510 N84-26107
DEM (digital grid-point elevation models) synthesis from three-dimensional cartographic data
[AD-A140211] 16 p2510 N84-26109
Determination of stratospheric wind profiles by digital analysis
[AD-A140502] 16 p2531 N84-26251
A mathematical model of the cardiovascular system under +Gz stress 16 p2537 N84-26290
Microprocessor parallel processing for digital filters 17 p2634 N84-26854
Implementation of cellular-logic operators using 3 x 3 convolution and table look-up hardware
[NLR-MP-83039-U] 17 p2750 N84-27454
The PDS-VAX intelligent plate scanning system of Trieste Astronomical Observatory 18 p2841 N84-28035
VLSI systems of digital signal processing for consumer applications
[BMFT-FB-T-84-060] 19 p3019 N84-29143
Automation-associated revision conception of the general topographic map 1 : 200,000 using raster data 19 p3040 N84-29291
A data management system for digital raster maps 19 p3041 N84-29292
TM digital image products for applications — computer compatible tapes
[E84-10183] 21 p3429 N84-31754
Development and characterization analysis of a radar polarimeter
[NASA-CR-175259] 22 p3598 N84-32785
The compression of digital imagery by transformation
[INPE-2893-PRE/412] 22 p3639 N84-33073
Quantitative analysis of satellite infrared imagery using digital storage equipment
[INPE-2978-PRE/440] 22 p3639 N84-33074
Photon correlation spectroscopy and applications 22 p3683 N84-33352
Digital signal processing 22 p3684 N84-33357
Tropical cyclone intensity analysis using satellite data
[NOAA-TR-NESDIS-11] 23 p3800 N84-34096
Pipelined digital SAR azimuth correlator using hybrid FFT-transversal filter
[NASA-CASE-NPO-15519-1] 24 p3893 N84-34651
Optoelectronic programmable logic arrays 24 p3941 N84-34948
Image input/output controller-interface based on 16-bit microprocessor 24 p3942 N84-34954
Industrial optodigital inspection system 24 p3942 N84-34955

DIGITAL TELEVISION
NT DIGITAL SPACECRAFT TELEVISION
Study of potential standardization of video teleconferencing systems. Volume 2: Appendices
[AD-A132081] 04 p0522 N84-13431
Study of potential standardization of video teleconferencing systems, volume 1
[AD-A132080] 04 p0522 N84-13432
Optical fibre links for digital YUV signals
[BBC-RD-1983/14] 05 p0665 N84-14372
New digital integrated Circuit (IC) concept for color TV receivers
[BMFT-FB-T-83-261] 10 p1488 N84-19729
Digital capability for cockpit television sensor instrumentation systems
[AD-A139432] 14 p2106 N84-23628
Digital video transmission with reduced frame repetition rate and movement-adapted frame-to-frame interpolation
[AD-B075822] 15 p2318 N84-24915
Digital sound transmission methods for TV sound tracks
[BMFT-FB-W-84-007] 19 p3009 N84-29075

DIGITAL TO ANALOG CONVERTERS
Processor-controlled DAC-20 (digital-to-analog converter)
[AD-A132260] 04 p0526 N84-13460
An airborne programmable digital to video converter
[AD-A134839] 08 p1104 N84-17181
Development of a non-volatile programmable digital to analog converter subsystem for PCM (Pulse-Code Modification) telemetry systems
[AD-A137878] 11 p1622 N84-20620
Memory-based parallel data output controller
[NASA-CASE-GSC-12447-2] 18 p2916 N84-28491
Utilization of AC and DC converters in the design and use of a system of acquisition retrieval of analogic data 18 p2944 N84-28689
Synthesis of arbitrary broadband signals for a parametric array
[AD-D011021] 19 p3100 N84-29691
Cognitive information processing 22 p3684 N84-33360
Soviet integrated circuits in use in GDR 23 p3728 N84-33630
An assembly language program for calculating random decrement signatures
[AD-A143908] 23 p3815 N84-34195

DIGITAL TRANSDUCERS
A digital linear position sensor for flight control actuation
[AD-A144283] 24 p3856 N84-34446

DIGITIZERS
U ANALOG TO DIGITAL CONVERTERS

DIGITS
NT BINARY DIGITS
Cognitive components underlying the digit symbol test
[PB83-250484] 04 p0574 N84-13779
Index numbers for North and Central America, the Caribbean and U.S. stations in the Pacific: Fifth editions
[PB84-159599] 15 p2372 N84-25231

DIHEDRAL EFFECT
U LATERAL STABILITY

DIHYDRIDES
Equation of state for titanium dihydride
[DE84-006698] 12 p1794 N84-21698
Review of solar fuel-producing quantum conversion processes
[NASA-CR-173904] 22 p3617 N84-32916

DIKES (GEOLOGY)
U ROCK INTRUSIONS

DILATATION
U STRETCHING

DILATOMETERS
U EXTENSOMETERS

DILATOMETRY
Precision digital dilatometry: A microcomputer-based approach to sintering studies
[DE84-009794] 19 p3073 N84-29497

DILUENTS
Influence of diluents and inhibitors on detonations
[DE84-006300] 22 p3548 N84-32483
Properties of UV-curable polyurethane acrylates: Effect of reactive diluent
[AD-A143241] 22 p3559 N84-32540

DILUTION
Effect of low-proof fuel alcohol on crankcase oil dilution in an Otto-cycle engine
[DE83-016425] 01 p0091 N84-10594
X-ray fluorescence determination of sulphur in oils by a thin film method
[MRL-TN-474] 05 p0648 N84-14250
Modeling of dilution jet flowfields 11 p1611 N84-20547
An investigation of the interaction between multiple dilution jets and combustion products 15 p2292 N84-24758
On modeling dilution jet flowfields
[NASA-TM-83708] 16 p2450 N84-25713
Dilution jet mixing program
[NASA-CR-174624] 17 p2609 N84-26702

DIMENSIONAL ANALYSIS
Wind tunnel modelling of buoyant plumes
[QUEL-1513/84] 15 p2256 N84-24552
Dimensionality, scoring, and related problems in adaptive testing
[AD-A139849] 15 p2383 N84-25290
Supersymmetry in physics: An algebraic overview
[DE84-007289] 15 p2399 N84-25395
Considerations on the dimensioning of decay tanks for liquid radioactive wastes (basic methods and examples)
[OEFZS-4249] 18 p2931 N84-28586
A computational paradigm for three dimensional scene analysis
[AD-A143963] 23 p3816 N84-34196

DIMENSIONAL MEASUREMENT
Interdisciplinary aspects of technical measurements 02 p0233 N84-11530
Elastomeric impression materials and cleaning systems for residue removal
[RFP-3442] 06 p0814 N84-15296
Development of a 3-d microscale topography system, phase 1
[AD-A137871] 11 p1633 N84-20677
Development of a 3-d microscale topography system, phase 2
[AD-A137872] 11 p1633 N84-20678
Characterization of heavy oil sprays in isothermal and burning conditions with laser light scattering measurements in the sideward region 15 p2294 N84-24766

Utilization of light wave scales and opto-electronic transformers for measuring distortion and expansion
[ISD-309] 16 p2557 N84-26402

DIMENSIONAL STABILITY
NT SHELL STABILITY
NT STRUCTURAL STABILITY
Application of optical methods, including optical interference, to measure the dimensional stability of resins, resin based adhesives and resin based composites
[AD-A140297] 16 p2472 N84-25843

DIMENSIONLESS NUMBERS
NT FROUDE NUMBER
NT LEWIS NUMBERS
NT MACH NUMBER
NT PRANDTL NUMBER
NT RAYLEIGH NUMBER
NT REYNOLDS NUMBER
NT RICHARDSON NUMBER
NRL (Naval Research Laboratory) plasma formulary, revised
[AD-A135787] 09 p1391 N84-19086
Notes on special flight aspects, such as STO, ski-jump and ODM 16 p2437 N84-25837

DIMENSIONS
NT DEPTH
NT FILM THICKNESS
NT FRACTALS
NT HEIGHT
NT LARMOR RADIUS
NT LENGTH
NT RADII
NT TARGET THICKNESS
NT WIDTH
An example of boundary layer in delay equations
[AD-A129144] 01 p0129 N84-10842
The Froude number for solitary waves
[AD-A134548] 07 p1002 N84-16498
The Dirichlet problem for harmonic maps from the disk into the Euclidean n-sphere
[AD-A139259] 14 p2213 N84-24287
Measurement of the transverse mode excitation in the stimulated emission of the ACO free electron laser
[AD-A143449] 22 p3601 N84-32808

DIMERIZATION
Investigation of the structure of photosynthetic reaction centers
[DE84-002686] 07 p1043 N84-16760

DIMERS
Molecular-beam studies of photodissociation reactions
[DE83-015962] 02 p0228 N84-11492
Molecular photoionization studies
[DE83-014283] 02 p0291 N84-11905
RF conditioned dc discharges for excitation of rare gas halide lasers
[DE83-016537] 03 p0381 N84-12479
Investigation of the structure of photosynthetic reaction centers
[DE84-002686] 07 p1043 N84-16760
Properties of 3-dimensional energetic solids and molecular crystals
[AD-A137927] 11 p1744 N84-21382
Mobility and molecular ions of dimethyl methyl phosphonate, methyl salicylate and acetone
[AD-A140328] 16 p2555 N84-26395
Research Reports of the Faculty of Engineering, no. 31
[DEC/1983/31] 21 p3476 N84-32034
Hydrogen-bond energies of dimer formation and UV absorption spectra of mono-methyl substituted 2-pyridones 21 p3477 N84-32040

DIMETHYLHYDRAZINES
Measurements of hypergolic fuels' and oxidants' permeation through commercial protective materials: Part 1. Inhibited red fuming nitric acid and unsymmetrical dimethylhydrazine
[AD-A134714] 08 p1139 N84-17411

DIMINUTION
U REDUCTION

DINING PHILOSOPHERS PROBLEM
Ada advanced error detector
[AD-A140273] 16 p2544 N84-26334

DINITRATES
Thermal stability of diethylene glycol dinitrate (DEGN) propellant
[PML-1983-22] 12 p1803 N84-21752

DIODES
NT AVALANCHE DIODES
NT GERMANIUM DIODES
NT GUNN DIODES
NT JUNCTION DIODES
NT LIGHT EMITTING DIODES
NT PHOTODIODES
NT PLASMA DIODES
NT SCHOTTKY DIODES
NT SEMICONDUCTOR DIODES
NT TUNNEL DIODES
NT VARACTOR DIODES
Numerical simulation of high energy light ion beam flow through a foilless diode
[AD-A131001] 02 p0289 N84-11892
Infrared-laser spectroscopy using a long-pathlength absorption cell
[DE83-014197] 03 p0381 N84-12480
Applied-B ion diode experiments on PBFA 1
[DE83-017792] 03 p0447 N84-12942
Diagnosing the ion beam on the applied-B diode
[DE83-017822] 03 p0447 N84-12943
Ampfion hybrid diodes on hydramite and PBFA-1
[DE83-017824] 03 p0448 N84-12945
Pulsed-power diode generation of high-power microwaves
[DE84-001344] 04 p0523 N84-13440
Decoupling ion efficiency from impedance in pulsed power diodes
[DE83-018114] 04 p0528 N84-13470
Proto-I axial-focusing experiments
[DE84-000458] 04 p0599 N84-13951
IBEX: Annular beam propagation experiment
[DE84-000456] 04 p0599 N84-13954
Analysis of mechanisms for anode plasma formation in ion diodes
[DE83-017793] 04 p0608 N84-14010
Overview of ion-diode research
[DE83-017791] 04 p0608 N84-14012
Hybrid ion diode theory and computations
[DE84-000102] 04 p0610 N84-14029
Ion-implanted strained-layer superlattice device
[DE84-000101] 05 p0754 N84-14949
Diode laser spectrophotometry for monitoring acetylene on-line in a liquefaction plant
[DE84-002117] 06 p0851 N84-15548
Infrared devices for control applications
[BMFT-FB-T-83-247] 10 p1579 N84-20349
Chemiluminescent/laser diode measurement technique intercomparison and captive air measurement program
[PB84-134485] 11 p1661 N84-20639
Millimeter wave metal-insulator-metal detector/mixer diode
[AD-A138391] 12 p1812 N84-21815
High voltage-high power components for large space power distribution systems
[NASA-TM-83648] 13 p1940 N84-22615
Locking of diode gain modules using optical conjugation techniques
[AD-A141234] 18 p2846 N84-28075
Diode-laser gas analyzer for geophysical studies 18 p2859 N84-28155
P-I-N Diode Switches Project
[INPE-3171-PRE/541] 21 p3391 N84-31516
Modulation of microwave power with electron transfer diodes 22 p3570 N84-32610
FET switching regulator
[AD-D011146] 23 p3735 N84-33665
Shunt diode designs in Li/CF Shuttle batteries 23 p3737 N84-33681
Silicon solar cell process development, fabrication and analysis
[NASA-CR-173950] 23 p3787 N84-34020
Method and apparatus for enhancing microchannel plate data
[DE84-014498] 24 p3899 N84-34690
Frequency synthesizer
[AD-D011203] 24 p3903 N84-34714
Optical data links for the STAR mission 24 p3905 N84-34730

DIOPHANTINE EQUATION
Diophantine equations 08 p1225 N84-18004
Upper bounds for the numbers of solutions of diophantine equations
[MATH-CENTRE-TRACTS-168] 21 p3474 N84-32019

DIOXIDES
NT CARBON DIOXIDE
NT HYDROGEN PEROXIDE
NT QUARTZ
NT SILICON DIOXIDE
NT SULFUR DIOXIDES

DIPHENYL COMPOUNDS
Amine terminated bisaspartimides, process for preparation thereof, and polymers thereof
[NASA-CASE-ARC-11421-1] 07 p0978 N84-16340
Cure reactions, network structure and mechanical response of diaminodiphenyl sulfone cured tetraglycidyl 4,4'diaminodiphenyl methane
[DE84-012607] 22 p3561 N84-32548

DIPLEXERS
Parametric study of optically pumped far-infrared waveguide lasers, part 1. Theory and experiment of folded Fabry-Perot quasi-optical ring resonator diplexer 05 p0687 N84-14515
Research in millimeter wave techniques
[NASA-CR-173964] 24 p3893 N84-34655

DIPOLE ANTENNAS
Performance of antennas in plasma 03 p0365 N84-12377
Design and characteristics of radiating pair cable 11 p1720 N84-21217
New formulas for HED (Horizontal Electric Dipole), HMD (Horizontal Magnetic Dipole), VED (Vertical Electric Dipole), and VMD (Vertical Magnetic Dipole) subsurface-to-subsurface propagation
[AD-A139030] 13 p2033 N84-23187
New formulas that extend Norton's farfield elementary dipole equations to the quasi-nearfield range
[AD-A139057] 13 p2034 N84-23188
Extension of finitely conducting Earth-Image-Theory results to any range
[AD-A139144] 14 p2139 N84-23827
Dipole arrays with sector-shaped patterns for applications in mobile radio communications
[FI-454-TBR-34] 19 p3009 N84-29078
Development of scanning dipole array
[AD-P003405] 19 p3014 N84-29109
Moebius r-2R lens
[AD-P003511] 21 p3385 N84-31479
Development of a 611 MHz feed for a 9-meter reflector
[NASA-TM-86300] 23 p3730 N84-33641

DIPOLE MOMENTS
NT MAGNETIC MOMENTS

DIPOLES
Stormer equation implementation using offset dipole coordinates derived from specified geographic coordinates
[AD-A130079] 01 p0104 N84-10676
The technology of superconducting accelerator dipoles
[DE83-016470] 02 p0299 N84-11963
Gas-liquid correlation of ionization energies
[AD-A141255] 18 p2930 N84-28578
Effect of manufacturing errors on field quality of the LBL SSC dipoles
[DE84-009224] 19 p3033 N84-29238
Television transmitting antenna of decimeter band system based on tubes 720 and 1020 mm in diameter 21 p3377 N84-31431
On the modeling of electromagnetically coupled microstrip antennas: The printed strip dipole
[AD-A143927] 23 p3731 N84-33651

DIRAC EQUATION
Future search for grand unified theory magnetic monopoles
[DE83-009451] 06 p0926 N84-16015
Spinorial relativistic rotator: The transformation from quasi-Newtonian to Minokowski coordinates
[DE84-009091] 20 p3282 N84-30839
Free charged particle behavior in intense laser fields
[DE84-013700] 22 p3653 N84-33160

DIRECT CURRENT
High-voltage (270 V) dc power-generating system for fighter aircraft 01 p0010 N84-10057
Improved transistor-controlled and commutated brushless DC motors for electric vehicle propulsion
[NASA-CR-168053] 01 p0069 N84-10450
Low-input-harmonics power supplies
[AD-A130337] 01 p0071 N84-10462
Pulse width modulated DC link converter development
[AD-A134486] 07 p0997 N84-16487
Maximum-efficiency dc-motor project for electric vehicles
[DE84-000791] 07 p0999 N84-16479
Probe measurement of DC electric fields — SCATHA satellite charging 08 p1116 N84-17255
The DC electric field in space: Direct measurements and inferences from cold plasma drifts 08 p1117 N84-17264
Studies of electrically stimulated rat limb and peripheral nerve regeneration
[AD-A134358] 08 p1197 N84-17806
Measuring accurately single-phase sinusoidal and non-sinusoidal power
[AD-A136408] 09 p1307 N84-18541
Development of a DC propulsion system for an electric vehicle
[NASA-CR-168306] 10 p1529 N84-20014
Liu fault diagnosis investigation
[AD-A137552] 11 p1706 N84-21119
Solar photovoltaic powered refrigerators/freezers for medical use in remote geographic locations
[NASA-CR-168268] 15 p2361 N84-25163
Procedure for calculation of stages with operational direct-current amplifiers 17 p2634 N84-26853
Calculation of hydraulic friction losses in dc motors filled with liquid dielectric 21 p3380 N84-31450
Performance and test criteria for dc fuses, phase 1
[PB84-202662] 21 p3395 N84-31548

Waveguide CO2 laser with 7.5 W power rating
21 p3487 N84-32098
Harmonic control to reduce torque pulsations in brushless dc motor drives
[AD-A144216] 24 p3897 N84-34677

DIRECT LIFT CONTROLS
Direct force control 01 p0014 N84-10090
Numerical analysis of a variable camber rotor blade as a lift control device
[NASA-CR-173452] 12 p1789 N84-21538

DIRECT POWER GENERATORS
NT ALKALINE BATTERIES
NT DRY CELLS
NT FUEL CELLS
NT HOMOJUNCTIONS
NT HYDROGEN OXYGEN FUEL CELLS
NT MAGNETOHYDRODYNAMIC GENERATORS
NT METAL AIR BATTERIES
NT NICKEL ZINC BATTERIES
NT PHOSPHORIC ACID FUEL CELLS
NT PHOTOELECTRIC GENERATORS
NT PRIMARY BATTERIES
NT RADIOISOTOPE BATTERIES
NT REGENERATIVE FUEL CELLS
NT SOLAR BLANKETS
NT SOLAR CELLS
NT THERMAL BATTERIES
NT THERMIONIC CONVERTERS
NT THERMOELECTRIC GENERATORS
Bi-directional control system for energy flow in a solar powered flywheel
[NASA-CASE-MFS-25978-1] 22 p3616 N84-32913
Development of a wind energy converter with single blade rotor
[BMFT-FB-T-84-114] 23 p3792 N84-34050

DIRECTION
Comprehensive understanding for vegetated scene radiance relationships 12 p1833 N84-21947

DIRECTION FINDERS (RADIO)
U RADIO DIRECTION FINDERS

DIRECTION FINDING
Confidence region for the evaluation of HF DF single site location systems
[AD-A133208] 06 p0785 N84-15140
An evaluation of a Honda Electro Gyro-Cator land navigation system
[AD-A138283] 12 p1768 N84-21532
Multiple source DF (Direction Finding) signal processing: An experimental system
[AD-P003515] 21 p3385 N84-31483

DIRECTIONAL ANTENNAS
NT DIPOLE ANTENNAS
NT HELICAL ANTENNAS
NT HORN ANTENNAS
NT LENS ANTENNAS
NT LOG PERIODIC ANTENNAS
NT LOOP ANTENNAS
NT PARABOLIC ANTENNAS
NT RADAR ANTENNAS
NT RHOMBIC ANTENNAS
NT SLOT ANTENNAS
NT STEERABLE ANTENNAS
NT YAGI ANTENNAS
DOA location accuracy of a multibeam antenna system
[AD-A136386] 09 p1298 N84-18487
The research on short backfire antenna
[AD-A137209] 10 p1485 N84-19712
Extragalactic radio sources: Rapid variability at 90 GHz
[AD-A136533] 10 p1595 N84-20451
Mirror antenna dual-band lightweight mirror design
[AD-A138113] 12 p1806 N84-21776
Feed error effects on lens performance
[AD-P003513] 21 p3385 N84-31481
A dual-ported, dual-polarized spherical near-field probe
[AD-P003514] 21 p3385 N84-31482
Synthesis of antennas with weak superdirectivity
22 p3565 N84-32581

DIRECTIONAL CONTROL
NT THRUST VECTOR CONTROL
Magnetic heading reference
[NASA-CASE-LAR-12638-1] 05 p0629 N84-14132
Flying qualities experiments of rate command/attitude hold systems in the HFB 320 in-flight simulator
[DFVLR-FB-83-25] 06 p0792 N84-15163
Orbital maneuvering vehicle simulation system on-board processing logic 06 p0931 N84-16052

DIRECTIONAL SOLIDIFICATION (CRYSTALS)
Apparatus for directional solidification
[DE83-016409] 02 p0196 N84-11271
High gradient directional solidification furnace --- for space processing
[NASA-CASE-MFS-25963-1] 07 p1007 N84-16531
Melting phenomena investigated by laser light scattering
[DE84-002004] 07 p1010 N84-16554
Rapid solidification processing of Al-Cu-Li-Mg alloys
[VTH-LR-380] 10 p1464 N84-19560
Space results on the solidification of immiscible alloys
17 p2612 N84-26722
The effect of growth rate on interface morphology
18 p2936 N84-28624
Low angle silicon sheet growth: A review of progress, problems and promise 18 p2938 N84-28631
Transient and diffusion analysis of HgCdTe
[NASA-CR-162049] 20 p3152 N84-30015
Aeronautical Materials (selected articles)
[AD-A139952] 20 p3159 N84-30063
Influences of directionally solidified techniques and hafnium content on a nickel base high temperature alloy
20 p3159 N84-30064
The effect of recycling on cast structures and the internal character of IN100 alloy: A laboratory study
23 p3705 N84-33485
Microsegregation during directional solidification
24 p3882 N84-34597
Directional solidification of Al2-Cu-Al and Al3-Ni-Al eutectics during TEXUS rocket flight
[NASA-TM-77552] 24 p3883 N84-34602

DIRECTIONAL STABILITY
NT GYROSCOPIC STABILITY
Lateral-directional stability investigation of the space shuttle orbiter at Mach 6 01 p0022 N84-10137
Linearized model for wind turbines in yaw
17 p2722 N84-27325

DIRECTIVITY
Theoretical aspects of throat-launch microwave heating in EBT-S
[DE83-015762] 03 p0438 N84-12875
State-of-the-Art for assessing earthquake hazards in the United States. Report 20: The contribution of directivity focusing to earthquake intensities
[AD-A132893] 06 p0878 N84-15716
Directivity and spacing for the antenna elements
17 p2693 N84-27154
Two-way unidirectional condenser microphone
[NHK-LABS-NOTE-297] 20 p3177 N84-30175
Analysis of directivity as a function of scan angle for planar arrays of radiating slots
[AD-P003503] 21 p3383 N84-31471

DIRECTORIES
Supplement to the technical assessment of geoscience-related research for geothermal energy technology
[DE84-002373] 10 p1530 N84-20020
State remote sensing (LANDSAT) programs catalog
[E84-10127] 14 p2168 N84-23985
Directory of Federal technology resources, 1984
[PB84-100015] 19 p3115 N84-29793
A directory of European, Middle Eastern, and North African coastal ground control points for mapping satellite images
[AD-A142019] 20 p3228 N84-30512
Defense Technical Information Center referral data bank directory
[AD-A138400] 20 p3315 N84-31051
Solar Radiation Data Directory: A guide to solar radiation and meteorological data collection activities in the US
[DE84-000095] 20 p3315 N84-31057
An online directory of databases for material properties
[DE84-013210] 22 p3643 N84-33099

DIRICHLET PROBLEM
Multiple critical points of invariant functionals and applications
[AD-A130544] 01 p0130 N84-10853
Numerical analysis of boundary value problem of elliptic type by means penalty and the finite difference and its application to free boundary problem
[AD-A132805] 05 p0736 N84-14834
Acoustic radiation from submerged structures at characteristic frequencies 05 p0742 N84-14872
Applications of Non-Self-Adjoint operator theory to the Singularity Expansion Method (SEM) and to the Eigenmode Expansion Method (EEM) in acoustic and electromagnetic problems
[AD-A135177] 08 p1219 N84-17955
The Dirichlet-Neumann boundary control problem associated with Maxwell's equations in a cylindrical region
[AD-A137937] 11 p1715 N84-21184
The Dirichlet problem for harmonic maps from the disk into the Euclidean n-sphere
[AD-A139259] 14 p2213 N84-24287
Conjugate gradient coupled with multigrid for an indefinite problem
[NASA-CR-172379] 19 p3082 N84-29558
On pairs of positive solutions for a class of semilinear elliptic problems
[AD-A141504] 19 p3084 N84-29574
A maximum principle for an elliptic system and applications to semilinear problems
[AD-A141600] 19 p3085 N84-29581
The exit problem for a stochastic dynamical system in a domain with almost everywhere characteristic boundaries
[CWI-AM-R8403] 19 p3092 N84-29635
Existence and equivalence of solutions of mixed problems for Euler's hydrodynamic equations
[ISSN-0208-5658] 23 p3745 N84-33738

DIRIGIBLES
U AIRSHIPS

DISASTERS
Natural hazards photograph catalog, key to geophysical records documentation no. 20
[PB83-250415] 04 p0557 N84-13674
Appraisal of scientific resources for emergency management
[AD-A133285] 06 p0933 N84-16062
EPA Enviropod. A summary of the use of the Enviropod under a Memorandum of Understanding among EPA Region 8, the State of Utah, and the University of Utah Research Institute
[E84-10124] 14 p2168 N84-23983
A player's manual for a complex disaster decision simulation
[AD-A140776] 17 p2747 N84-27438
Third World Congress on Emergency and Disaster Medicine
[FOA-C-52005-H4] 20 p3260 N84-30692
The role of information technology in emergency management
[GPO-29-457] 23 p3834 N84-34319

DISCHARGE
A second kind of Beam-Plasma Discharge (BPD): Rocket and laboratory results 05 p0637 N84-14193
Discharge cell for optogalvanic spectroscopy having orthogonal relationship between the probe laser and discharge axis
[NASA-CASE-NPO-16271-1] 06 p0849 N84-15537

DISCHARGE TUBES
U GAS DISCHARGE TUBES

DISCHARGERS
NT STATIC DISCHARGERS

DISCONNECT DEVICES
Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-15429-1] 13 p1939 N84-22609
The design and development of a release mechanism for space shuttle life-science experiments
15 p2347 N84-25079
Adjustable self-releasing hook
[AD-D011082] 22 p3604 N84-32834
Release mechanism for a cylindrical object recovery device
[AD-D011183] 24 p3909 N84-34762
Cylindrical object recovery device
[AD-D011184] 24 p3909 N84-34763

DISCONNECTORS
U DISCONNECT DEVICES

DISCONTINUITY
Behavior of idealized discontinuities and impact damages in CFRP under fatigue loading
01 p0034 N84-10214
Pseudospectral solution of inviscid flows with multiple discontinuities
[AD-A132084] 04 p0534 N84-13510
Development of the linear displacement discontinuity method 05 p0691 N84-14536
Magnetic field reconnection at the magnetopause: An overview 08 p1185 N84-17719
Beam front accelerators
[DE84-003709] 08 p1229 N84-18032
Interdisciplinary study of directional discontinuities in the solar wind with ISPM 09 p1263 N84-18242
Theoretical and experimental investigation of heterojunction interfaces
[AD-A135896] 09 p1395 N84-19111
Estimation of discontinuous coefficients in parabolic systems: Applications to reservoir simulation
[NASA-CR-172301] 10 p1568 N84-20273
Discharge of ideal gas into vacuum
13 p1970 N84-22785
Scattering of an electromagnetic plane wave from a perfectly electrically conducting half-plane in the proximity of planar media discontinuities
[AD-A138968] 13 p1983 N84-22876
Ultrasonic methods to study shadow boundaries of diffracting cracks. Ultrasonic caustics in NDE (Non-Destructive Evaluation)
[AD-A138839] 13 p1999 N84-22970

Calculation of the excess inductance of a microstrip discontinuity
[AD-A143819] 23 p3742 N84-33718
Monolithic microwave integrated circuit devices for active array antennas
[NASA-CR-173981] 24 p3897 N84-34675

DISCOVERING
U EXPLORATION

DISCRETE FUNCTIONS
The detection of signals in impulsive noise
[AD-A130393] 01 p0062 N84-10409
Application of pseudoinversion to linear system identification with discrete measurements
[AD-A132283] 04 p0521 N84-13422
Comparison of arithmetic requirements for the PFA (Prime Factor Algorithm), WFTA (Winograd Fourier Transform Algorithm), SWIFT, MFFT (Mixed radix fast Fourier transform), FFT (Fast Fourier Transform) and DFT (Discrete Fourier Transform) algorithms
[AD-A133087] 05 p0736 N84-14847
Efficient computer architectures for computing discrete Fourier transforms
[AD-A138109] 12 p1881 N84-22258
Analysis of a fully discrete scheme for the neutron transport in cylindrical geometry
[CTH-MATH-1984-1] 13 p2041 N84-23246
Expected energy method for electro-optical SNR calculations
[AD-A139984] 15 p2398 N84-25389
Estimating spectral indices from transforms of discrete representations of density functions
[AD-A140164] 16 p2557 N84-26404
The weak stochastic realization problem for discrete-time counting processes
[MC-BW-191/83] 17 p2761 N84-27532
A stochastic approach to global error estimation in the numerical solution of ordinary differential equations
19 p3118 N84-29815
The complexity of sorting on distributed systems
[AD-A142415] 20 p3281 N84-30825
On accuracy conditions for the numerical computation of waves
[NASA-CR-172433] 22 p3645 N84-33111

DISCRIMINANT ANALYSIS (STATISTICS)
Optical pattern recognition for missile guidance
[AD-A130097] 01 p0018 N84-10113
Discrimination relative to measures of non-normality
03 p0393 N84-12566
Assessment of Fisher and logistic linear quadratic discrimination models
[ORNL/CSD-TM-200] 06 p0904 N84-15865
Classification methods: An introductory survey
09 p1408 N84-19204
Preliminary results of a statistical classification of ultraviolet stellar spectra 09 p1409 N84-19205
Discriminant analysis in astronomy
09 p1411 N84-19223
Applications of multivariate statistical techniques for computer performance evaluation
[AD-A138268] 12 p1894 N84-22336
Variable selection in heteroscedastic discriminant analysis
[CSIR-TWISK-283] 13 p2031 N84-23171
Computer-managed instruction: Individual differences in student performance
[AD-A139706] 15 p2382 N84-25286
A discriminant analysis of radar data applied to severe storms 23 p3775 N84-33933

DISCRIMINANT FUNCTIONS
U DISCRIMINANT ANALYSIS (STATISTICS)

DISCRIMINATION
NT BRIGHTNESS DISCRIMINATION
NT VISUAL DISCRIMINATION
Surface wave path corrections, deterministic discrimination and body wave attenuation
[AD-A133574] 06 p0878 N84-15714
LINUS, a line-selective equipment for AGA thermovision
[FOA-C-30348-E4] 10 p1500 N84-19802
Ice depolarization on low-angle 2 GHz satellite downlinks 15 p2323 N84-24946
Applications of texture analysis for rock types discrimination, phase 2
[AD-A142268] 19 p3042 N84-29303
Discrimination of iron alteration minerals in remote sensing data 21 p3425 N84-31727
The discrimination of pitch in pulse trains and speech
[AD-A142996] 21 p3492 N84-32127
The mechanism of human velocity discrimination
[AD-A144527] 24 p3936 N84-34918

DISEASES
NT ARTERIOSCLEROSIS
NT BONE DEMINERALIZATION
NT CANCER
NT CARBON MONOXIDE POISONING
NT EDEMA
NT EYE DISEASES
NT HEART DISEASES
NT INFECTIOUS DISEASES
NT OSTEOPOROSIS
NT PARALYSIS
NT RADIATION SICKNESS
NT RESPIRATORY DISEASES
NT TOXIC DISEASES
NT TUMORS
NT ULCERS
Military Medical Journal, no. 3, 1983
[L-2399] 08 p1199 N84-17817
Ultrastructural evaluation of the retina in retinopathy of prematurity and correlations with vitamin E therapy
[AD-A135929] 10 p1547 N84-20143

DISHES
U PARABOLIC REFLECTORS

DISINFECTANTS
U ANTISEPTICS

DISK GALAXIES
Two-fluid gravitational instabilities in a galactic disk
02 p0305 N84-11998
The stability of elliptical stellar disks. Balanced disks
[PR-826] 09 p1385 N84-19043
Simulations of galaxy mergers
11 p1757 N84-21470
Self-regulating galaxy formation. Part 1: HII disk and Lyman alpha pressure
[NASA-CR-173592] 16 p2577 N84-26535

DISKS
Probabilistic planning and budgeting for R and D programs involving activities of high uncertainty
[DE84-002310] 08 p1238 N84-18093
Multiple grid methods for equations of the second kind with applications in fluid mechanics
[MATH-CENTRE-TRACTS-163]
21 p3474 N84-32018

DISKS (SHAPES)
NT ROTATING DISKS
Low strain, long life creep fatigue of AF2-1DA and INCO 718
[NASA-CR-167989] 01 p0042 N84-10268
Functions of uniformly bounded characteristic
04 p0577 N84-13802
NASTRAN documentation for flutter analysis of advanced turbopropellers
[NASA-CR-167927] 06 p0790 N84-15153
Transient thermal stresses in a reinforced hollow disk or cylinder containing a radial crack
[NASA-CR-173292] 08 p1170 N84-17619
Numerical radiative transfer in Be disks
16 p2577 N84-26538
Immersion of disk in compressible fluid at angle to free surface 17 p2647 N84-26930

DISLOCATIONS (MATERIALS)
NT CRYSTAL DISLOCATIONS
NT EDGE DISLOCATIONS
NT SCREW DISLOCATIONS
Electron-microscope observation of crack propagation and a dislocation model of fracture
[DE83-014623] 03 p0389 N84-12540
Dislocation/obstacle interactions during low-dose irradiation creep of nickel
[DE84-001416] 04 p0504 N84-13303
Modelling the behavior of materials
[DE84-000154] 04 p0545 N84-13588
Elastic quarter plane and quarter space boundary value problems 11 p1667 N84-20876
LSI/VLSI (Large Scale Integration/Very Large Scale Integration) ion implanted GaAs (Gallium Arsenide) IC processing
[AD-A139676] 15 p2328 N84-24979
Dislocation shielding model of fracture toughness
[DE84-007539] 15 p2351 N84-25111
On continuous distributions of dislocations in nonlocal elasticity
[AD-A141858] 19 p3036 N84-29257
On the hierarchy of interfacial dislocation structure
[DE84-014160] 23 p3719 N84-33573

DISORIENTATION
NT DESYNCHRONIZATION (BIOLOGY)
NT JET LAG

DISPENSERS
Auger characterization of new and aged dispenser cathode surfaces
[AD-A140754] 17 p2663 N84-26988
A rodent water dispensing system for use in hypobaric chambers
[AD-A141167] 18 p2894 N84-28362

DISPERSING
USAF Space Shuttle dispersion modelling
[AD-A132957] 05 p0700 N84-14594
Powder fed sheared dispersal particle generator
[NASA-CASE-LAR-12785-1] 07 p1011 N84-16561
Dispersion experiments with sulfur hexafluoride from the 213m high meteorological mast at Cabauw in the Netherlands 08 p1183 N84-17706
A method to estimate the vertical dispersion parameter in a 10 Km range
[AD-A137192] 11 p1683 N84-20982
A numerical analysis of the effect of inhomogeneity and wind speed shear on the vertical dispersion in the mesoscale range
[AD-A137188] 11 p1688 N84-21006
Dispersion spectroscopy of optical electron transfer in solution
[AD-A139101] 14 p2121 N84-23713
Research and research needs in colloidal interactions
[PB84-161231] 14 p2124 N84-23731
Heat transfer effects during cold dense gas dispersion
[PB84-162999] 14 p2177 N84-24043
Basic mathematical formulation of contaminant dispersions --- atmospheric pollution
18 p2878 N84-28274
The evaporation and gaseous dispersion of large-scale releases of nitrogen tetroxide
[AD-A142079] 20 p3168 N84-30104
Simulation of powder distribution in IITRI bag experiments
[AD-A141941] 20 p3170 N84-30128
A theoretical and experimental study of turbulent evaporating sprays
[NASA-CR-174760] 22 p3536 N84-32390
Oxide dispersion strengthened alloys
23 p3703 N84-33472
A study of pollutant dispersal in a 2-dimensional field including gravity effects
[AD-A144295] 24 p3900 N84-34699

DISPERSION
Phonon dispersion of transverse basal-plane modes in alkali-graphite compounds
[DE83-003910] 03 p0350 N84-12273
Testing hypotheses in linear models with weighted rank statistics
[AD-A135759] 09 p1383 N84-19032
Modeling kinetics of aerodisperse phase in ocean surface layer 18 p2859 N84-28153
Solvation and dielectric dispersion in optical electron transfer
[AD-A144183] 24 p3880 N84-34580

DISPERSION PRECIPITATION HARDENING
U PRECIPITATION HARDENING

DISPERSIONS
NT AEROSOLS
NT COLLOIDS
NT EMULSIONS
NT FOG
NT LIQUID-GAS MIXTURES
NT PHOTOGRAPHIC EMULSIONS
NT SMOKE
On the model equations which describe nonlinear wave motions in a rotating fluid
[AD-A134556] 07 p1002 N84-16499
Preparing meteorological data for use in routine dispersion calculations: Workgroup summary
[PB84-119890] 08 p1193 N84-17774
SH wave propagation in a laminated composite
11 p1627 N84-20646
First results of a MAUS experiment to investigate the stability of a metallic dispersion
17 p2612 N84-26724
Preparation of dispersion alloys: Component separation during cooling and solidification of dispersions of immiscible alloys 17 p2613 N84-26725
Green's function for a dielectric wave-guide filled with a dispersion medium
[ISSN-0208-5658] 19 p3003 N84-29032
Formation of dispersions of rare earth oxides in titanium alloys using rapid solidification processing
[DE84-006864] 20 p3157 N84-30048
Improvements in mechanical properties in SiC by the addition of TiC particles
[DE84-012352] 21 p3358 N84-31297

DISPLACEMENT
Subsonic/Transonic Aerodynamic Interference for Aircraft: Introductory remarks 03 p0317 N84-12073
Three-dimensional analysis of composite plates with material nonlinearity
[AD-A131884] 03 p0347 N84-12258
Coordinate-measuring machine capability
[DE84-002014] 04 p0539 N84-13544
Flight evaluation of a linear optical displacement transducer
[AD-A132638] 05 p0630 N84-14141
Measurement of velocity and displacement of a transverestraint testing machine
[MRL-TN-473] 05 p0683 N84-14493
Development of the linear displacement discontinuity method 05 p0691 N84-14536

New elements for analysis of space frames with tapered members 05 p0695 N84-14581
Nonlinear analysis of thin shells by the hybrid mixed finite-element method 06 p0856 N84-15578
Finite element and boundary element analysis of large strain large displacement problems in elastoplasticity 06 p0857 N84-15580
Theoretical and software considerations for nonlinear dynamic analysis
[NASA-CR-174504] 06 p0858 N84-15589
Global displacement models 1 07 p1031 N84-16687
Global displacement models 2 07 p1031 N84-16688
A new approach to polymer chemistry: Organometallic and bioactive phosphazenes
[AD-A135429] 08 p1137 N84-17396
A finite difference scheme for the equilibrium equations of elastic bodies
[NASA-CR-172293] 08 p1170 N84-17621
Accuracy in folding mirror mechanism displacement law — Space Telescope 09 p1295 N84-18464
Mathematical models for damageable structures
[AD-A136574] 10 p1572 N84-20298
Optimization for vibration isolation
[AD-A137895] 11 p1666 N84-20686
Inverse transonic airfoil design methods including boundary layer and viscous interaction effects
[NASA-CR-173449] 12 p1765 N84-21514
Measurement of fast transient and steady state responses of viscoelastic fluids with a sliding cylinder rheometer executing coaxial displacements
[AD-A137996] 12 p1816 N84-21835
Displacement angle relation for the cross crank mechanism: An exact kinematic measure synthesis
[WTHD-155] 12 p1823 N84-21866
Application of the PAFEC 75 software package — Program for Automatic Finite Element Calculations (PAFEC)
[NPL-QU-66] 12 p1878 N84-22240
A universal 3-dimensional wall pressure correction method for closed rectangular subsonic wind tunnel test sections (displacement, downwash, streamline curvature)
[ESA-TT-800] 13 p1935 N84-22588
Approximations for elastic layers and a three-dimensional elasticity solution for a simply supported rectangular plate 15 p2314 N84-24884
An epicycloidal hole under uniform tangential force in an infinite, isotropic, compressible medium in second order elasticity 15 p2401 N84-25407
Unified analytical kinematic analysis and synthesis of spatial mechanisms 16 p2501 N84-26049
Theory of exterior and harmonic eigenstrains 16 p2503 N84-26065
Study of NOAA (National Oceanic and Atmospheric Administration) WP-3D terminal navigation errors based on navigators logbooks: 1977-1983
[PB84-155738] 17 p2605 N84-26692
Effect of pressure wave on cylindrical sandwich shell immersed in compressible fluid 17 p2650 N84-26948
Three-dimensional stressed state of longitudinally corrugated elastic cylinders 17 p2651 N84-26950
Residual stresses in long double-layer cylinder under nonsteady cooling 17 p2651 N84-26953
A new 48 D.O.F. quadrilateral shell element with variable-order polynomial and rational B-spline geometries with rigid body modes 17 p2678 N84-27058
Determining parameters of radiating focus from amplitude spectra of body waves 17 p2704 N84-27222
Note on the displacement effect in a spinning fluid
[AD-A141599] 19 p3024 N84-29175
Identification of strain-softening properties and computational predictions of localized fracture
[AD-A141866] 19 p3036 N84-29258
Nonlinear displacement analysis of advanced propeller structures using NASTRAN
[NASA-TM-83737] 21 p3419 N84-31683
Large deflections of circular isotropic membranes subjected to arbitrary axisymmetric loading
[NASA-TM-86271] 21 p3419 N84-31686
User's guide: Computer program for analysis of two-dimensional beam-columns with nonlinear supports (CBNTBM)
[AD-A143170] 21 p3466 N84-31974
Stresses and displacements in linear Maxwell non-isothermal circular plates on Winkler foundation and with radial and transverse variation in material properties 22 p3608 N84-32856
Hybrid stress reduced-Mindlin elements for thin multilayer plates with application to edge contact problems 22 p3608 N84-32857
Horizontal cylindrical vessels supported by saddles subjected to vertical and lateral force fields 22 p3608 N84-32858
Accuracy of three dimensional solid finite elements 22 p3609 N84-32867
Transonic viscous-inviscid interaction using Euler and inverse boundary-layer equations 23 p3688 N84-33376
Feed displacement correction in a space fed lens antenna
[AD-D011155] 23 p3742 N84-33722
Fluid layer between infinite elastic plates. I: Mathematics and intensity vectors
[AD-A144373] 24 p3901 N84-34700

DISPLACEMENT MEASUREMENT

Effect of modifying additives on the properties of polymer blends
[CSIR-1690] 01 p0049 N84-10313
Multi-directional gaging probe
[DE83-012855] 01 p0085 N84-10551
Gauge block iasometer development
[DE83-018286] 03 p0378 N84-12458
Description of a method and artifact for estimating volumetric uncertainty of coordinate measuring machines
[DE84-002017] 04 p0539 N84-13545
Three-dimensional analysis of chevron-notched specimens by boundary integral method
[NASA-CR-172225] 04 p0547 N84-13607
On the estimation of zero-plane displacement for tall vegetation
[INPE-2946-PRE/430] 07 p1023 N84-16634
Utilization of double integration methodology to determine an aircraft's vertical displacement
[AD-P002681] 11 p1658 N84-20818
A high temperature optical displacement measuring system — gas turbine blades
[PNR-90186] 13 p2044 N84-23261
Development of a multidetector deflection measurement system
[DE84-009703] 18 p2847 N84-28078
Development of a multidetector deflection measurement system
[DE84-013580] 21 p3410 N84-31631
Three-axis gaging probe
[DE84-015087] 23 p3752 N84-33784
Mechanical properties of multi-year sea ice. Testing techniques
[AD-A144431] 24 p3935 N84-34908

DISPLAY DEVICES

NT ANEMOMETERS
NT APPROACH INDICATORS
NT FLOW DIRECTION INDICATORS
NT HEAD-UP DISPLAYS
NT HELMET MOUNTED DISPLAYS
NT HOT-FILM ANEMOMETERS
NT HOT-WIRE ANEMOMETERS
NT KINOFORM
NT PLAN POSITION INDICATORS
NT POSITION INDICATORS
NT RADIO DIRECTION FINDERS
NT TACHOMETERS
Interactive raster data structure study
[AD-A130195] 01 p0100 N84-10649
Proceedings of the 16th Annual Conference on Manual Control
[AD-A131256] 01 p0118 N84-10763
Using the glyph concept to create user-definable display formats
[DE83-013831] 01 p0124 N84-10806
Symbology verification study
[AD-A131328] 02 p0177 N84-11162
Computer symbol generator and control panel for an integrated cockpit color display information system
[BMFT-FB-W-83-007] 02 p0179 N84-11169
On-line traffic monitor
[AD-A131356] 02 p0209 N84-11364
Atmospheric correction studies/processing image no. I-100
[INPE-2870-RPE/442] 02 p0239 N84-11568
Core graphics user's manual
[DE83-013206] 02 p0274 N84-11791
Real-time 3-D X-ray and gamma-ray viewer
[NASA-CASE-GSC-12640-1] 02 p0293 N84-11920
Development of large area Multi-coloured Multifunctional Displays (MFA) in liquid crystal technology
[BMFT-FB-T-83-098] 02 p0300 N84-11970
Controls, Displays, and Information Transfer for General Aviation IFR Operations
[NASA-CP-2279] 03 p0311 N84-12029
A simulator evaluation of an automatic terminal approach system 03 p0312 N84-12037
Pilot controls and SPIRF flight 03 p0312 N84-12038
Pilot response with conventional displays 03 p0313 N84-12040
A simulator evaluation of a rate-enhanced instrument landing system display 03 p0313 N84-12042
Display research: Pilot response with the "follow-me" box display 03 p0313 N84-12043
Control/display trade-off study for single-pilot instrument flight rule operations 03 p0313 N84-12044
Experimental studies relating environmental lighting and flicker to visual fatigue in VDT operators
[DE83-016316] 03 p0419 N84-12738
Airborne Intelligent Display (AID) phase 1 software development
[ATC-123] 04 p0484 N84-13181
Simulator study of pilot-aircraft-display system response obtained with a three-dimensional-box pictorial display
[NASA-TP-2122] 04 p0484 N84-13182
An airborne color video inserter
[AD-A132183] 04 p0484 N84-13185
Interactive surface visualization using raster graphics
[AD-A132548] 04 p0579 N84-13819
Computer-based ultrasonic multiple-frequency pulse-echo test system
[AD-A132227] 04 p0595 N84-13926
Design implications from AFTI/F-16 flight test
[NASA-TM-86026] 05 p0632 N84-14157
Range safety display system upgrade
[AD-A133789] 05 p0642 N84-14225
Manufacturing Methods and Technology (MM and T) specifications for miniature cathode ray tube
[AD-A132797] 05 p0675 N84-14439
Technical and economic analysis of the planned visual display terminal employment for the Stock Point Logistics Integrated Communications Environment (SPLICE)
[AD-A133642] 05 p0719 N84-14711
Real visual image compensation for head motion parallax effects as a function of object distance
[AD-A132915] 05 p0720 N84-14717
Combined visualization 06 p0769 N84-15043
The lock-on-before-launch weapon delivery and display/control consideration 06 p0772 N84-15056
Color display technology in advanced fighter cockpits 06 p0772 N84-15061
Flight Mechanics and System Design Lessons From Operational Experience
[AGARD-CP-347] 06 p0775 N84-15076
The impact of the F/A-18 aircraft digital flight control system and displays on flight testing and safety 06 p0777 N84-15091
The man-machine interface in new generation commercial aircraft 06 p0777 N84-15096
Modern flight instrument displays as a major military aviation flight safety weakness 06 p0778 N84-15098
Spatiotemporal characteristics of visual localization
[AD-A133952] 06 p0888 N84-15770
A study on airborne integrated display system and human information processing
[NASA-TM-77338] 06 p0891 N84-15789
Displaying colors of specified chrominance on a color graphics display
[AD-A133591] 06 p0896 N84-15817
Real-time pilot guidance system for improved flight test maneuvers
[NASA-TM-84922] 07 p0952 N84-16176
A concept for reducing oceanic separation minima through the use of a TCAS-derived CDTI
[NASA-CR-172258] 07 p0952 N84-16177
In-trail dynamics of multiple CDTI-equipped aircraft queues
[NASA-TM-85699] 07 p0953 N84-16178
Simulator scene display evaluation
[NASA-CASE-ARC-11504-1] 07 p0960 N84-16221
Low-level flight simulation: Vertical cues
[AD-A133612] 07 p1050 N84-16802
CDTI target selection criteria
[NASA-CR-3776] 08 p1104 N84-17178
Instructor station display for use in T-37 flight simulation training
[AD-A134854] 08 p1106 N84-17191
Visual cues in the simulation of low-level flight
[AD-A135461] 08 p1202 N84-17839
EASAMS architecture for management and control systems 08 p1207 N84-17871
Quantification of interference and detectability properties of visual stimuli for optimal display design
[AD-A135438] 08 p1232 N84-18049
Cost and performance analysis of visual and sensor simulation systems using Defense Mapping Agency data bases
[AD-A135955] 09 p1259 N84-18220
Eye spectral sensitivity and its variation with luminance level
[RAE-TR-83043] 09 p1361 N84-18892
Ergo-ophthalmological aspects of the VDU: Visual strain and the blue light lesion
[DRIC-T-6921] 09 p1361 N84-18893

Comment on graphical methods for assessing logistic regression models by Landwehr, Pregibon and Shoemaker
[AD-A135684] 09 p1383 N84-19031
Centralized warning systems for the new generation of airliners
[VTH-LR-373] 10 p1424 N84-19315
The integrated mission-planning station: Functional requirements, aviator-computer dialogue, and human engineering design criteria
[AD-A136909] 10 p1430 N84-19352
Predictor displays as training aids in carrier landings
[AD-A136643] 10 p1433 N84-19367
Investigation of electrochromic effects for display application
[BMFT-FB-T-83-212] 10 p1457 N84-19519
Development of a large area color display
[BMFT-FB-T-83-206] 10 p1499 N84-19801
The effect of noise and display orientation on cognitive performance
[AD-A136808] 10 p1550 N84-20158
The limits of multiple resource theory: The role of task correlation/integration in optimal display formatting
[AD-A136692] 10 p1554 N84-20182
A comparison of homogeneous and heterogeneous display formats in information integration and nonintegration tasks
[AD-A136693] 10 p1554 N84-20183
Three-dimensional graphics for scientific data display and analysis
[DE84-004075] 10 p1565 N84-20253
Aircraft control position indicator
[NASA-CASE-LAR-12984-1] 11 p1607 N84-20522
AFTI/F-16 digital flight control system experience 11 p1619 N84-20592
Calibration of engines laboratory air flow measuring devices
[AD-A137909] 11 p1660 N84-20831
The use of interactive graphics processing in short-range terminal weather forecasting: An initial assessment
[AD-A137165] 11 p1687 N84-21004
DIGLIB for HP-1000 computers
[DE84-004741] 11 p1710 N84-21147
Graphic and visual presentation of aerospace date 11 p1751 N84-21431
Investigation of the effect of the viewing target height on the eye height of sitting Visual Display Unit (VDU) operators
[IZF-1983-9] 12 p1869 N84-22177
IEEE 488 bus pseudo-controller linking talker with listener
[DE84-007093] 12 p1878 N84-22238
Self-teaching guide to Rand's text processor
[RAND/N-2056-RC-REV] 12 p1879 N84-22244
Placing hidden surface removal within the CORE graphics standard: An example
[AD-A138239] 12 p1882 N84-22266
PICTURE: An interactive tool for creating visual aids. Reference manual, version 2.0
[DE84-007447] 12 p1884 N84-22279
Preliminary experience with a stereoscopic video system in a remotely piloted aircraft application
[NASA-TM-84909] 13 p1931 N84-22557
Frequency encoded auditory display of the critical tracking task
[NASA-TM-85869] 13 p1931 N84-22558
The effects of a spatial information format on decision making performance in a C3 (Command, Control, and Communications) probabilistic information integration task
[AD-P002887] 13 p1979 N84-22848
Research on cognitive collaboration between persons and computers
[AD-P002892] 13 p1980 N84-22853
A man-machine interface concept for a state-of-art, shipboard, command/control console
[AD-P002894] 13 p1980 N84-22854
Development of a 3-D microscale topography system
[AD-A138809] 13 p2006 N84-23013
Evaluating multiple coordinated windows for programming workstations 13 p2027 N84-23146
Control of dynamic systems based on graphic information 13 p2029 N84-23159
Human factors affecting pilot performance in vertical and translational instrument flight
[AD-A139141] 14 p2187 N84-24105
A multivariate autoregressive display monitoring model
[NLR-MP-83033-U] 15 p2364 N84-25296
Display units for online passage retrieval: A comparative analysis
[DE84-001004] 15 p2395 N84-25369
Fluorescent guests in thermotropic and chirality in lyotropic liquid crystals
[AD-A139985] 15 p2413 N84-25487
Post-processing: Extracting and displaying useful information from digital images 16 p2491 N84-25977
Dyes for displays
[BMFT-FB-T-84-100] 16 p2557 N84-26401
Pilot-aircraft interaction concerning a wind shear indication system 17 p2588 N84-26586
Visual effects of F-16 Canopy/HUD (Head-Up Display) integration
[AD-P003221] 17 p2595 N84-26634
The electronic chart
[AD-A140565] 17 p2604 N84-26686
Command flight path display, phase 1 and 2
[AD-A140870] 17 p2611 N84-26711
Command flight path display, phase 1 and 2. Appendices A - E
[AD-A140871] 17 p2611 N84-26712
Alternative voice switching and control system display panel format simulation and evaluation
[NASA-CR-173644] 17 p2654 N84-26973
Detection of severe weather by FAA radars
[FAA-RD-79-91] 17 p2733 N84-27372
Display-control compatibility in 3-D displays
[AD-A140640] 17 p2748 N84-27444
ONR (Office of Naval Research) Far East Scientific Bulletin. Volume 9, Number 1, January to March 1984
[AD-A140626] 17 p2770 N84-27589
Evaluation of HIMAT aircraft landing approach lateral control gearing using simulation and a visual display
[NASA-TM-84916] 18 p2796 N84-27743
East Europe Report: Scientific affairs
[JPRS-ESA-84-004] 18 p2827 N84-27946
GD 80: Computer assisted device for engineers 18 p2827 N84-27949
Institute achievements in man-machine relations 18 p2827 N84-27950
The limits of multiple resource theory in display formatting: Effects of task integration
[AD-P003321] 18 p2910 N84-28457
Static versus dynamic presentation of visual cues in simulated low level flight
[AD-P003360] 18 p2913 N84-28473
Video games: A human factors guide to visual display design and instructional system design
[AD-P003368] 18 p2914 N84-28480
Development of fine-structured components for gas discharge displays
[BMFT-FB-T-84-031] 19 p3000 N84-29015
Improvements of properties and quality of LED displays
[BMFT-FB-T-84-043] 19 p3019 N84-29140
Flat panel — displays
[BMFT-FB-T-84-048] 19 p3019 N84-29141
Simulated 3-dimensional computer graphics training display for air weapons controllers. Volume 2: Users guide
[AD-A141336] 19 p3075 N84-29510
Simulated 3-dimensional computer graphics training display for air weapons controllers, volume 1
[AD-A141347] 19 p3075 N84-29511
Interactive Signal and Pattern Analysis and Recognition Systems (ISPARS). Users' guide
[AD-A141421] 19 p3075 N84-29514
CIG distortion correction with delay lines
[AD-D011025] 19 p3079 N84-29537
Simulator evaluation of a remotely piloted vehicle lateral landing task using a visual display
[NASA-TM-85903] 20 p3131 N84-29885
A data acquisition and real-time display system for testing a jet engine compressor
[AD-A142696] 20 p3197 N84-30301
Operator performance on flat-panel displays with line and cell failures
[AD-A142340] 20 p3265 N84-30716
A route generator concept for aircraft onboard fault monitoring
[NASA-TM-86264] 21 p3326 N84-31104
Equipment for monitoring and control of television transmitters 21 p3378 N84-31435
Results of psychophysiological study of Videoton terminal operators 21 p3454 N84-31919
The effect of information display format on multiple-cue judgment
[AD-A142884] 21 p3459 N84-31941
User's guide to Sphere and Plate Interactive Display Routine (SPIDR)
[DE84-012855] 21 p3466 N84-31976
Liquid crystal materials for matrix displays
[AD-A143039] 21 p3504 N84-32206
Improved materials for DC dynamic scattering at elevated temperatures
[AD-A143076] 21 p3504 N84-32207
Aircraft liftmeter
[NASA-CASE-LAR-12518-1] 22 p3535 N84-32383
Light-emitting diode matrix flat screen 22 p3567 N84-32592
Video noise reduction
[BBC-RD-1984/7] 22 p3571 N84-32615
Comparison of CRT (Cathode Ray Tube) antireflection filters
[PB84-202753] 22 p3580 N84-32742
Programming productivity enhancement by the use of application generators
[AD-A143532] 22 p3640 N84-33080
Naval applications for Remotely Piloted Vehicles (RPV's)
[AD-A143826] 23 p3693 N84-33405
A dual digital to video converter and color video inserter for avionics symbology and messages
[AD-A143772] 23 p3693 N84-33408
An evaluation of the SPADS automated cloud analysis program
[AD-A143987] 23 p3802 N84-34106
Investigation of electro-optical effects in liquid crystals for high information density over a wide temperature range — displays
[BMFT-FB-T-84-120] 23 p3831 N84-34304
Real time testing: The next generation 24 p3850 N84-34416
Comparison of color versus black-and-white visual displays as indicated by bombing and landing performance in the 2B35 TA-4J flight simulator
[AD-A144674] 24 p3857 N84-34455
Large screen display technology survey
[AD-A144222] 24 p3902 N84-34711
F-15 Limited Field of View visual system training effectiveness evaluation
[AD-A144309] 24 p3938 N84-34925
Image input/output controller-interface based on 16-bit microprocessor 24 p3942 N84-34954

DISPLAY SYSTEMS
U DISPLAY DEVICES

DISPOSAL
NT HAZARDOUS MATERIAL DISPOSAL (IN SPACE)
NT WASTE DISPOSAL

DISRUPTING
Dissipation of magnetic energy during disruptive current termination — disruptions in tokamak reactors
[IPPJ-844] 06 p0919 N84-15973

DISSECTION
Dissecting composite parts: A valuable aid in concept design and nondestructive control 01 p0033 N84-10207
LGM-30B, stage 2 dissected motor test report
[AD-A140337] 16 p2480 N84-25765

DISSIPATION
NT ENERGY DISSIPATION
NT OHMIC DISSIPATION
Effects of dissipation in one-dimensional inverse problems
[DE83-017692] 03 p0362 N84-12353
Effects of microstructure and pore fluids on the acoustic properties of granular materials
[AD-A131983] 03 p0408 N84-12668
The relationship between electrical conductivity and temperature of aviation turbine fuels containing static dissipator additives
[AD-A135751] 09 p1290 N84-18421
The Lapiacian resonance and tidal dissipation 13 p2073 N84-23434
Instability of the flow of two immiscible liquids with different viscosities in a pipe
[AD-P002935] 14 p2196 N84-24175
Theory and experiments on chemical instabilities
[AD-A140947] 18 p2810 N84-27841
Problems of constitutive modeling and stability of dissipative bodies
[ISSN-0208-5658] 19 p3081 N84-29551
TVD finite difference schemes and artificial viscosity
[NASA-CR-172373] 19 p3082 N84-29559
Analysis of the influence of nonlinear and dissipative effects in atmospheric plasma
[ISSN-0208-5658] 19 p3106 N84-29732
Warm fog dissipation using large volume water sprays
[NASA-CASE-MFS-25962-1] 22 p3538 N84-32398

DISSIPATORS
U DISSIPATION

DISSOCIATION
NT AUTOIONIZATION
NT BIODEGRADABILITY
NT GAS DISSOCIATION
NT PHOTODISSOCIATION
NT THERMAL DISSOCIATION
Coulomb explosion and recent methods for studying molecular decomposition
[DE83-012348] 01 p0142 N84-10933
Energy partitioning to product translation in the infrared multiphoton dissociation of diethyl ether
[AD-A131555] 02 p0226 N84-11482
Dissociative ionization of liquid water induced by vibrational overtone excitation
[DE83-017739] 04 p0495 N84-13251

Resonance-resonance coupling in dissociative electron attachment
[DE84-001767] 04 p0602 N84-13972
Heat and mass transfer during the growth and dissociation of gas hydrates in porous media
[PB83-255414] 05 p0682 N84-14482
Chain reaction mechanism for I2 dissociation in the O2 (1 delta)-I atom laser
[AD-A134370] 07 p1010 N84-16548
Homogeneous reactions of hydrocarbons, silane, and chlorosilanes in radiofrequency plasmas at low pressures
[NASA-TP-2301] 11 p1626 N84-20843
Ionic reactions of atmospheric importance
[AD-A137166] 11 p1683 N84-20981
O-atoms yields from microwave discharges in N2O/Ar mixtures
[AD-A130429] 14 p2137 N84-23606
Atomic hydrogen for low temperature atomic hydrogen masers and in-vacuum dissociators for VLG-11 series masers
[NASA-CR-173506] 14 p2150 N84-23680
Grain refinement of commercial aluminum by niobium and zirconium additions to the melt
15 p2307 N84-24841
Exciplex ionic dissociation in non-polar solvent induced by multipolar salt complexes
[AD-A140919] 17 p2620 N84-26766
Ion photofragment spectroscopy: Structure and dissociation of molecular ions
[AD-A141196] 18 p2811 N84-27846
Quantum chemical study of methane oxidation species
[NASA-CR-173819] 19 p2987 N84-28928
Pulsed-laser atom-probe studies of surface chemical reactions
[DE84-012811] 20 p3151 N84-30007
Dissociation of amino acid-DNA complexes under influence of long-wave UV light
20 p3258 N84-30680
Electromagnetic dissociation of radioactive heavy-ion beams
[DE84-012266] 21 p3495 N84-32146
Gas chromatographic analysis of nitrogen
[BLL-RISLEY-TRANS-4563-(9091.9)]
22 p3545 N84-32443
Vibrational energy relaxation and dissociation in N2
[AD-A143606] 23 p3827 N84-34276

DISSOLUTION
U DISSOLVING

DISSOLVED GASES
Physical modeling of the champagne effect
[DE84-001813] 04 p0516 N84-13388
Measurements of dissolved gases at Corps of Engineers projects
[AD-A142727] 20 p3170 N84-30130
Isotope effects in the solution of gases in liquids
[DE84-014848] 23 p3715 N84-33549

DISSOLVING
Temperature limitation of primary and secondary alkaline battery electrodes
[DE83-015009] 02 p0214 N84-11404
Investigation to diminish the heavy metal concentrations in sewage sludges with organic complexing reagents
[BMFT-FB-T-83-156] 07 p1027 N84-16660
Chemical attenuation rates, coefficients, and constants in leachate migration. Volume 1: A critical review
[DE84-009432] 20 p3238 N84-30557
Isotope effects in the solution of gases in liquids
[DE84-014848] 23 p3715 N84-33549
Anodic dissolution of transition metal carbides at high current density 24 p3877 N84-34586

DISSYMMETRY
U ASYMMETRY

DISTANCE
NT DEBYE LENGTH
NT MISS DISTANCE
NT OPTICAL SLANT RANGE
NT RADAR RANGE
NT RANGE AND RANGE RATE TRACKING
The use of burst transmission to increase communication range: A feasibility study
[PB84-111400] 08 p1147 N84-17467
Development of short-distance optical transmission cord 11 p1727 N84-21268
Robust minimum distance estimation of the 3 parameter lognormal distribution
[AD-A136007] 12 p1896 N84-22349
New formulas that extend Norton's farfield elementary dipole equations to the quasi-nearfield range
[AD-A139057] 13 p2034 N84-23188
Minimum-distance problems in protocol design
16 p2480 N84-25903
The feasibility, practicality and utility of P-3 inflight refueling
[AD-A143419] 22 p3535 N84-32382

DISTANCE MEASURING EQUIPMENT
NT ALTIMETERS
NT GEODIMETERS
NT LASER RANGE FINDERS
NT RADIO ALTIMETERS
NT RANGE FINDERS
New opportunities for old measuring methods by using Automatic Seconds Theodolites (AST)
02 p0234 N84-11533
A microprocessor-based range meter for electric vehicles
[DE83-902237] 02 p0304 N84-11993
Rotary target V-block
[NASA-CASE-LAR-12007-3] 07 p1006 N84-16523
Distance measurement to line of sight obstacles close to roads, a commission from Statens Vaeg och Trafikinstitute (VTI) — distance measuring with a continuous wave laser
[FOA-C-30333-E1] 08 p1165 N84-17586
An optical proximity sensor for measuring surface position and orientation for robot manipulation
[AD-A134899] 08 p1205 N84-17881
Evaluation of radio navigation systems and their configuration with respect to minimum cost
[DFVLR-FB-83-32] 10 p1426 N84-19329
Airborne real time multisensor navigation
[AD-B079957] 12 p1768 N84-21534
Equipment for measuring the distance of satellite in low orbit
[INPE-3126-PRE/517] 16 p2455 N84-25739
Error response of a trapezoidal pulses DME technique disturbed by multipath effects and noise
[ESA-TT-747] 16 p2482 N84-25915
Optimum time of day and night for measuring distances in turbulent atmosphere with optical range finders (case of high rise of laser beam above ground surfaces)
17 p2638 N84-26875
Development, set up and testing of a measuring system for components of the Derived Azimuth System (DAS)
[BMFT-FB-W-84-005] 19 p2962 N84-28773
Design and operation mode of Nd:YAP lasers in Modular Transportable Laser Ranging System (MTLRS)
19 p3040 N84-29290

DISTANCE PERCEPTION
U SPACE PERCEPTION

DISTILLATION
Turbine engine lubricant reclamation
[AD-A135926] 09 p1288 N84-18410
Stable isotope studies
[DE84-002436] 10 p1577 N84-20332

DISTILLATION EQUIPMENT
Analysis of the transfer function model of tray-type binary distillation columns with liquid hydraulic delay
[RR-234] 13 p1975 N84-22816

DISTORTION
NT SIGNAL DISTORTION
Research on aero-thermodynamic distortion induced structural dynamic response of multi-stage compressor blading
[AD-A133853] 05 p0632 N84-14151
Adaptive feedforward linear wideband HF power bank
[AD-A134744] 08 p1151 N84-17493
Test-engine and inlet performance of an aircraft used for investigating flight effects on fan noise
[NASA-TP-2254] 11 p1729 N84-21277
Data compression
[AD-A138541] 13 p2024 N84-23124
Fluid dynamic aspects of turbine engine testing
14 p2098 N84-23586
Investigation of the behavior of axial compressor stages with steady state inlet distortions
[DFVLR-FB-83-39] 15 p2262 N84-24590
Distortion of a narrow radio beam in a convective medium 15 p2326 N84-24966
Introduction to unsteady flow in turbomachines
16 p2489 N84-25962
CIG distortion correction with delay lines
[AD-D011025] 19 p3079 N84-29537
A method of measuring distortion noise in digital audio equipment
[NHK-LABS-NOTE-299] 20 p3177 N84-30174
Potential surface improvements by bump removal for 64-m antenna 22 p3573 N84-32627
Optical distortion analyzer system
[AD-D011127] 22 p3656 N84-33176
Response of a small-turboshaft-engine compression system to inlet temperature distortion
[NASA-TM-83765] 23 p3694 N84-33414
The derivation of the mapping equations and distortion formulae for the satellite tracking map projections
[AD-A143683] 23 p3784 N84-33998
Method for dynamically recording distortion in a transparency
[AD-D011209] 24 p3902 N84-34707

DISTRIBUTED AMPLIFIERS
Wideband monolithic microwave amplifier study
[AD-A136424] 09 p1318 N84-18608

DISTRIBUTED PARAMETER SYSTEMS
Parameter identification and control of distributed-parameter systems 02 p0286 N84-11873
A fault-tolerant distributed computer network design and analysis for an integrated flight control system
03 p0336 N84-12189
Analysis and control of quasi distributed parameter systems 04 p0547 N84-13603
File migration in distributed computer systems
04 p0584 N84-13660
Distributed hypothesis formation in distributed sensor networks
[AD-A133849] 05 p0731 N84-14802
Computer science and technology: Future information processing technology, 1983
[PB83-257618] 06 p0696 N84-15820
Control theory of hyperbolic systems
[AD-A135146] 08 p1218 N84-17952
Job handling in a network of distributed processors
[EUT-82-E-131] 10 p1566 N84-20262
Time domain analysis and synthesis of robust controllers for large scale LQG (Linear Quadratic Gaussian) regulators
[AD-A137760] 11 p1713 N84-21172
Distributed elections in an Archimedean ring of processors (preliminary version)
[MC-IW-243/83] 13 p2035 N84-23202
On systems with spectral cluster points and their relation to H sup p spaces
[RR-235] 13 p2038 N84-23222
Possibilities of using ICL: Distributed array processor
16 p2549 N84-26357
A robustness test for distributed feedback systems
[OUEL-1522/84] 19 p3091 N84-29630
Approximation techniques for parameter estimation and feedback control for distributed models of large flexible structures
[NASA-CR-172411] 20 p3135 N84-29903
Control theory of partial differential equations
[AD-A142636] 20 p3279 N84-30812
Analysis and control of a class of stiff linear distributed systems
[AD-A142364] 20 p3280 N84-30821
Theoretical issues in the design and verification of distributed systems 22 p3643 N84-33096
On parameter identification and state estimation for distributed parameter systems
[INPE-3236-PRE/585] 24 p3949 N84-35004

DISTRIBUTED PROCESSING
A distributed signal processing architecture
[AD-A130227] 01 p0119 N84-10771
NSW (National Software Works) executive enhancements II
[AD-A129022] 01 p0120 N84-10781
Joint University Program for Air Transportation Research, 1982
[NASA-CP-2285] 02 p0167 N84-11099
Distributed processing and fiber optic communications in air data measurements 02 p0169 N84-11110
Decentralized control of scheduling in distributed processing systems
[AD-A131548] 02 p0301 N84-11976
A model for the distributed storage and processing of large arrays
[NASA-CR-172252] 03 p0420 N84-12742
A technical overview of the National Software Works
[AD-A132320] 04 p0580 N84-13827
Memory intensive functional architecture for distributed computer control systems
[DE84-002579] 05 p0720 N84-14719
Foundations of computer science 4. Distributed systems. Part 1: Algorithms and complexity
[MATH-CENTRE-TRACTS-158-PT-1]
08 p1207 N84-17873
Distributed computing 08 p1208 N84-17874
A distributed procedure to detect and/or deadlock
[AD-A135459] 08 p1212 N84-17904
RADC (Rome Air Development Center) DDP (Distributed Data Processing) topology evaluation
[AD-A134701] 08 p1212 N84-17909
Model and analysis of a communication interface with distributed processing for application in a communication network by packet switching
[INPE-2773-TDL/136] 08 p1215 N84-17926
Computer networks without a shared memory
AFOSR-81-0197
[AD-A135074] 08 p1215 N84-17927
Preserving asymmetry by symmetric processes and distributed fair conflict resolution
[AD-A135458] 08 p1223 N84-17986

Query processing and data allocation in distributed database systems
[MATH-CENTRE-TRACTS-156] 08 p1239 N84-18101
Distributed algorithms for various problems
[AD-A135452] 08 p1240 N84-18105
Attitude, control and stabilization 09 p1268 N84-18281
Data management 09 p1269 N84-18287
Distributed processing tools definition. Volume 1: Hardware and software technologies for tightly-coupled distributed systems
[AD-A137686] 11 p1704 N84-21105
Distributed processing tools definition. Volume 2: Application of software engineering technology
[AD-A137687] 11 p1704 N84-21106
Distributed processing tools definition. Volume 3: An integrated software engineering environment for distributed processing software development
[AD-A137688] 11 p1704 N84-21107
Software quality measurement for distributed systems, volume 1
[AD-A137955] 11 p1707 N84-21128
Software quality measurement for distributed systems. Volume 2: Guidebook for software quality measurement
[AD-A137956] 11 p1707 N84-21129
Software quality measurement for distributed systems. Volume 3: Distributed computing systems. Impact on software quality
[AD-A137957] 11 p1708 N84-21130
Method for accessing distributed heterogeneous databases 11 p1749 N84-21412
The implementation and use of Ada on distributed systems with high reliability requirements
[NASA-CR-175413] 12 p1876 N84-22228
Design and implementation of an Input/Output interface protocol for the INTEL 432/670 computer system
[AD-A138429] 12 p1883 N84-22273
Distributed data base systems with special emphasis toward POREL 12 p1890 N84-22308
Active control of distributed structures 13 p1940 N84-22618
A model for asynchronous distributed computation
[AD-P002879] 13 p1978 N84-22840
Distributed estimation systems
[AD-P002898] 13 p1980 N84-22857
The acquisition management information system: Friend or foe?
[AD-P002751] 13 p2050 N84-23298
Distributed database performance modeling
[AD-P002157] 14 p2139 N84-23823
Real time speech recognition on a distributed digital processing array
[AD-A139097] 14 p2139 N84-23826
Formal specification and verification of distributed system
[AD-A139305] 14 p2203 N84-24220
Distributed database control and allocation. Volume 1: Frameworks for understanding concurrency control and recovery algorithms
[AD-A138891] 14 p2203 N84-24223
Distributed database control and allocation. Volume 2: Performance analysis of concurrency control algorithms
[AD-A138892] 14 p2203 N84-24224
Distributed database control and allocation. Volume 3: Distributed database system designer's handbook
[AD-A138893] 14 p2203 N84-24225
Cronus: A distributed operating system
[AD-A139588] 14 p2209 N84-24260
CRONUS: A distributed operating system
[AD-A139983] 15 p2368 N84-25326
Fundamental design problems of distributed systems for the hard real-time environment
[AD-A139996] 15 p2392 N84-25358
Middle East Technical University Journal of Pure and Applied Sciences, volume 15, no. 2 15 p2401 N84-25406
Query execution in the distributed RAP DBM systems 15 p2401 N84-25409
Distributed and decentralized control in fully distributed processing systems
[AD-A140120] 15 p2418 N84-25520
Secure reliable processing systems
[AD-A140150] 16 p2542 N84-26316
A representational basis for the development of a distributed expert system for Space Shuttle flight control
[NASA-TM-58258] 16 p2544 N84-26328
The ROE file system
[AD-A140497] 16 p2567 N84-26473
Optimization of query processing in distributed databases systems 16 p2567 N84-26474
Dynamic module replacement in a distributed programming system
[AD-A140619] 17 p2752 N84-27469
Managing distributed databases in partitioned networks 17 p2772 N84-27599
An implementation of the distributed programming structural synthesis system (PROSSS)
[NASA-TM-83253] 18 p2920 N84-28518
A distributed memory management system for PASM
[AD-A141360] 19 p3072 N84-29487
Design methodology for back-end database machines in distributed environments
[AD-A142122] 19 p3072 N84-29491
Distributed avionic computers
[AD-A142140] 19 p3073 N84-29494
Software support for fully Distributed/Loosely coupled processing systems, volume 1
[AD-A141500] 19 p3076 N84-29518
SREM (Software Requirements Engineering Methodology) evaluation, volume 1
[AD-A141631] 19 p3077 N84-29525
SREM (Software Requirements Engineering Methodology) evaluation. Volume 2: Specifications and technical data
[AD-A141632] 19 p3078 N84-29526
Performance measurement in a distributed processing environment
[AD-A142410] 20 p3266 N84-30722
An Ada (trademark) network: A real-time distributed computer system
[AD-P003423] 20 p3270 N84-30755
DCP (Distributed software engineering control process): Experience in bootstrapping an Ada (trademark) environment
[AD-P003424] 20 p3270 N84-30756
The complexity of sorting on distributed systems
[AD-A142415] 20 p3281 N84-30825
Inductive information retrieval using parallel distributed computation
[AD-A142712] 20 p3314 N84-31050
The impact of NEBULA, MCF (Military Computer Family), and Ada (Trademark) on real-time embedded computer systems
[AD-P003534] 21 p3331 N84-31138
Options and opportunities for standards: A NATO/AGARD viewpoint
[AD-P003577] 21 p3338 N84-31182
Cronus, A distributed operating system: Functional definition and system concept
[AD-A142795] 21 p3462 N84-31950
Resource contention, synchronization, and information structure in distributed systems
[AD-A143037] 21 p3518 N84-32287
Autonomous Integrated Receive System (AIRS) requirements definition. Volume 1: Executive summary
[NASA-CR-175261] 22 p3575 N84-32646
Autonomous Integrated Receive System (AIRS) requirements definition. Volume 2: Design and development
[NASA-CR-175262] 22 p3576 N84-32647
Extending binary Byzantine agreement to multivalued Byzantine agreement
[AD-A143424] 22 p3640 N84-33077
The effect of queueing disciplines on response times in distributed systems
[DE84-012639] 22 p3641 N84-33086
System analysis for the Huntsville Operational Support Center distributed computer system
[NASA-CR-171136] 22 p3643 N84-33097
The allocation of data and programs in distributed data processing environments 22 p3670 N84-33261
Updating replicated files in real time distributed processing systems 22 p3670 N84-33264
NASA Administrative Data Base Management Systems, 1984
[NASA-CP-2323] 22 p3671 N84-33266
Asynchronous file transfer to IBM PC's 22 p3672 N84-33275
LaRC local area networks to support distributed computing 22 p3673 N84-33281
Name server design for distributed systems
[AD-A143634] 23 p3812 N84-34173

DISTRIBUTION
Numerical modeling of the MOSBJT
[AD-A132351] 04 p0525 N84-13456
Distributed feedback bistability in channel waveguides 14 p2236 N84-24417
Length distribution of chords through a rectangular volume
[AD-A143302] 22 p3577 N84-32654

DISTRIBUTION (PROPERTY)
NT ANGULAR DISTRIBUTION
NT ANTENNA RADIATION PATTERNS
NT BRIGHTNESS DISTRIBUTION
NT CHARGE DISTRIBUTION
NT CURRENT DISTRIBUTION
NT DIFFRACTION PATTERNS
NT ELECTRON DENSITY PROFILES
NT ELECTRON DISTRIBUTION
NT ENERGY DISTRIBUTION
NT FLOW DISTRIBUTION
NT FORCE DISTRIBUTION
NT FREQUENCY DISTRIBUTION
NT HOLE DISTRIBUTION (MECHANICS)
NT ION DISTRIBUTION
NT KURTOSIS
NT LOAD DISTRIBUTION (FORCES)
NT MASS DISTRIBUTION
NT MOMENT DISTRIBUTION
NT PRESSURE DISTRIBUTION
NT RADIAL DISTRIBUTION
NT RADIATION DISTRIBUTION
NT SIDELOBES
NT SPATIAL DISTRIBUTION
NT SPECTRAL ENERGY DISTRIBUTION
NT STAR DISTRIBUTION
NT STRESS CONCENTRATION
NT TEMPERATURE DISTRIBUTION
NT VELOCITY DISTRIBUTION
NT VERTICAL DISTRIBUTION
Martian crater size distributions and terrain age 13 p2077 N84-23462
Distribution of craters of various age on Martian surface 19 p2976 N84-28662
Feasibility of formation of discrete dust belts around Earth 19 p2976 N84-28663
Simulation of powder distribution in IITRI bag experiments
[AD-A141941] 20 p3170 N84-30128

DISTRIBUTION FUNCTIONS
Special features of electrochemical determination of non-uniformly distributed oxygen in melts
[BLL-M-35105-(5828.4)] 01 p0036 N84-10226
Computation of counting distributions arising from a single-stage multiplicative process
[AD-A131480] 01 p0072 N84-10471
Tests for exponentiality when origin and scale parameters are unknown
[AD-A131377] 02 p0284 N84-11864
Applied extreme-value statistics
[DE83-013347] 02 p0285 N84-11870
Weak and strong law results for a function of the spacings
[AD-A130705] 03 p0425 N84-12782
Investigation of an error theory for conjoint measurement methodology
[AD-A133946] 05 p0734 N84-14818
Estimation of parameters for truncated distributions
[AD-A132605] 05 p0735 N84-14827
Recurrence of symmetric random walks
[AD-A133807] 05 p0739 N84-14855
The Gauss-Tchebyshev inequality for unimodal distributions
[AD-A133760] 05 p0739 N84-14857
An efficient generator of uniformly distributed random deviates between zero and one
[AD-A132851] 05 p0741 N84-14865
On the fitting of Pearson curves to sums of independent random variables
[AD-A133153] 06 p0900 N84-15844
A note on the analysis of random balance designs
[AD-A133287] 06 p0901 N84-15848
Optical and X-ray selected samples of quasars: Evolution of the luminosity distributions 06 p0937 N84-16090
Coaxial measurement of the translational distribution of CS produced in the laser photolysis of CS2 at 193nm
[AD-A134613] 07 p0970 N84-16296
A Berry-Esseen bound for symmetric statistics
[MC-SW-95/83] 07 p1067 N84-16929
A Bayesian explanation of an apparent failure rate paradox
[AD-A134748] 08 p1223 N84-17967
An investigation of methods for computing long path atmospheric transmittance
[AD-A136434] 09 p1345 N84-18785
Average run lengths of an optimal method of detecting a change in distribution
[AD-A136385] 09 p1381 N84-19019
Approximating the distribution of a dynamic risk portfolio
[AD-A136039] 09 p1383 N84-19035
A differential equations approach to the modal location for a family of bivariate gamma distributions 10 p1573 N84-20307
TRAN-STAT statistics for environmental studies. Statistical distributions for contaminant studies, and the estimation of average concentrations
[DE84-006579] 12 p1845 N84-22029
Parameter estimation for the four parameter beta distribution
[AD-A138062] 12 p1893 N84-22333
Robust minimum distance estimation of the 3 parameter lognormal distribution
[AD-A138007] 12 p1896 N84-22349
Analytic wave front and microlocal decomposition distributions 14 p2211 N84-24272

CRONUS: A distributed operating system
[AD-A139963] 15 p2366 N84-25328
Partial frequency redistribution in subordinate lines
15 p2421 N84-25543
The orientation distribution on nonspherical aerosol particles within a cloud
[AD-A140470] 16 p2526 N84-26216
A method for constructing a unimodal inferential or prior distribution
[AD-A141389] 19 p3083 N84-29566
On the Edgeworth expansion for the logarithm of the likelihood ratio, part 2
[CWI-MS-R8401-PT-2] 19 p3094 N84-29652
A retrievable recipe for inverse t
[AD-A142557] 20 p3281 N84-30829
Acceleration of ions and electrons by wave-particle interactions
[AD-A142341] 20 p3292 N84-30900
Theoretical studies of Elmo Bumpy Torus (EBT)
[DE84-010814] 20 p3303 N84-30978
Microstability theory for distributions separable in energy and pitch angle
[DE84-009683] 20 p3305 N84-30991
Statistical inference for reliability from stress strength relationships: The normal case
[AD-A142893] 21 p3472 N84-32005
Investigation of statistical characteristics of random signals in nonlinear medium 21 p3485 N84-32066
Photon-photon absorption and the uniqueness of the spectra of active galactic nuclei
[NASA-TM-86117] 21 p3526 N84-32338
Bounded Hessian functions 22 p3636 N84-33048
Distributions of central quadratic forms in normal variables: A comparison of algorithms
[AD-A143468] 22 p3646 N84-33116
TP2 orderings
[AD-A143434] 22 p3648 N84-33132
Radial distribution function as an analysis technique
[DE84-013242] 22 p3665 N84-33235
Path integrated growth of auroral kilometric radiation
[NASA-CR-173995] 24 p3919 N84-34812
Representation of the Fokker-Plank collision term for Coulomb interaction as series of Legendre polynomials
[INPE-3232-PRE/582] 24 p3949 N84-35006

DISTRIBUTION MOMENTS
NT MEAN
NT ORTHOGONALITY
NT STANDARD DEVIATION
The queue G/G/1: Finite moments of the cycle variables and uniform rates of convergence
[CTH-MATH-1983-18] 07 p1066 N84-16933
On orthogonal polynomials on a half line and the associated kernel polynomials
[MC-BW-182/83] 13 p2034 N84-23192
Asymptotic formulas for distribution moments in solution of radiation transfer equation in stochastic medium
17 p2706 N84-27243
On coupling of renewal processes with use of failure rates
[CTH-MATH-1983-27] 17 p2760 N84-27530
Estimation of the generalized extreme-value distribution by the method of probability weighted moments
[AD-A141696] 19 p3093 N84-29642
On regenerative and ergodic properties of the k-server queue with nonstationary Poisson arrivals
[CTH-MATH-1984-2] 19 p3094 N84-29648
Random capacities and their distributions
[CTH-MATH-1984-03] 19 p3094 N84-29649

DISTRICT OF COLUMBIA
An analysis LANDSAT-4 Thematic Mapper geometric properties 20 p3210 N84-30392
The use of linear feature detection to investigate Thematic Mapper data performance and processing
20 p3210 N84-30393

DISTURBANCE THEORY
U PERTURBATION THEORY

DISTURBANCES
Universality and fractal dimension of mode locking structure in systems with competing periodicities
[DE83-017352] 03 p0390 N84-12545

DISULFIDES
NT CARBON DISULFIDE

DITCHES
Statistical aspects of ice gouging on the Alaskan Shelf of the Beaufort Sea
[AD-A134428] 08 p1196 N84-17708

DITCHING (EXCAVATION)
U EXCAVATION

DITCHING (LANDING)
Study on transport airplane unplanned water contact
[AD-A142092] 19 p2961 N84-28764

DITHIOLS
U THIOLS

DIURESIS
Fluid intake at high altitudes 07 p1044 N84-16772

DIURNAL RHYTHMS
U CIRCADIAN RHYTHMS

DIURNAL VARIATIONS
Behavior of the total electron content in the ionosphere in Sao Jose dos Campos during magnetic storms in 1980
[INPE-2810-PRE/368] 02 p0248 N84-11623
Variability of atmospheric density in the middle atmosphere
[AD-A131985] 03 p0407 N84-12667
Branching processes in periodically varying environment
[CTH-MATH-1983-12-PREPRINT]
03 p0426 N84-12792
Thermal tides in the atmosphere of Venus
06 p0876 N84-15702
Case studies using GOES infrared data and a planetary boundary layer model to infer regional scale variations in soil moisture
[NASA-CR-173250] 07 p1022 N84-16631
A dawn to dusk electric field in the Jovian magnetosphere
[NASA-CR-166483] 08 p1245 N84-18136
Tidal and lunar data for Point Mugu, San Nicolas Island and the Barking Sands area, 1984
[AD-A135243] 09 p1351 N84-18828
The relation between isolated tree brightness temperature and grass background brightness temperature
[AD-A135843] 09 p1389 N84-19070
Radiation budget parameters from Meteosat-2 data
10 p1534 N84-20049
Comprehensive analyses of variances of meteorological fields over Southern Bavaria
[DFVLR-FB-83-31] 10 p1541 N84-20097
Design and verification of a cloud field optical simulator 10 p1578 N84-20339
Remote sensing of winds and turbulence above complex terrain during ASCOT-1980
[DE84-004231] 11 p1688 N84-21009
Tidal oscillations in the atmospheric sodium layer
[INPE-3008-PRE/454] 12 p1846 N84-22033
Biological effects of electric fields: An overview
[DE84-005888] 12 p1864 N84-22144
Wind climate of the Netherlands
[ISBN-90-12-04466-9] 14 p2178 N84-24045
Diurnal and annual variation of climatic elements in Finland
[T-551.583.13(480)] 18 p2883 N84-28294
Soil moisture from temperature measurements at the Earth's surface, update 20 p3222 N84-30474
Stratospheric NO and NO2 profiles at sunset from analysis of high-resolution balloon-borne infrared solar absorption spectra obtained at 33 deg N and calculations with a time-dependent photochemical model
[NASA-TM-86285] 20 p3240 N84-30566
Monthly mean determination of the solar semidiurnal surface pressure oscillation at Batavia from 1866 through 1944
[PB84-184795] 20 p3244 N84-30593
Observations of long-period motions of the Earth at the South Pole 21 p3440 N84-31823
Variability in the height distribution of electrojet currents of Jicamarca
[INPE-3205-PRE/563] 21 p3442 N84-31840
Daily variations of temperature and humidity within and above Amazonian forest
[INPE-3196-PRE/560] 21 p3447 N84-31869
Solar tides in the mesospheric sodium layer
[INPE-2942-TDL/151] 22 p3622 N84-32953
Meteorological and climatological conditions affecting the vertical structure of visibility in northern Germany
[AD-A144352] 24 p3934 N84-34902
Some preliminary results of ionospheric slab thickness observations at Lunping 24 p3956 N84-35045
Lunar variations of cosmic ray intensity
24 p3993 N84-35272

DIVERGENCE
NT MAGNETIC CHARGE DENSITY
Finite elements and the divergence constraint for viscous flows 04 p0530 N84-13486
Real time divergence measurement from single Doppler radar
[AD-A140558] 17 p2653 N84-26966
Conforming finite element methods for incompressible and nearly incompressible continua
[AD-A141117] 19 p3023 N84-29171
Acta mechanica sinica (Selected articles)
[AD-A142128] 19 p3024 N84-29180
Ion beamlet steering for two-grid electrostatic thrusters
[NASA-CR-174671] 21 p3354 N84-31274
A determination of the charge state of energetic magnetospheric ions by the observation of drift echoes
[AD-A143181] 22 p3623 N84-32954
Refined methods of aeroelastic analysis and optimization --- swept wings, propeller theory, and subsonic flutter
[NASA-CR-173967] 23 p3760 N84-33835

DIVERTERS
Self-pumping impurity control by in-situ metal deposition
[DE83-014265] 02 p0195 N84-11265
An analysis of the interaction between a submerged jet and a receiver-diffuser in a reverse-flow diverter
[DE83-012593] 04 p0536 N84-13521
Plasma/neutral gas transport in divertors and limiters
[DE84-001594] 04 p0611 N84-14034
Numerical analyses for scrape-off plasmas in FER divertor chamber 11 p1734 N84-21313
Plasma in diverter during intense recycling
20 p3288 N84-30877
The use of isotopically-enriched carbon probes for erosion deposition measurements in the ASDEX divertor
[DE84-012329] 20 p3307 N84-31006

DIVIDING (MATHEMATICS)
Fast arithmetic operations on numbers and polynomials 06 p1224 N84-17992
Method of acceleration of arithmetic calculations
24 p3941 N84-34949
A systolic algorithm for integer GCD computation
[AD-A144409] 24 p3951 N84-35019

DIVING (UNDERWATER)
Development of passive diver thermal protection system
[AD-A130685] 01 p0117 N84-10782
Decompression procedures for flying after diving, and diving at altitudes above sea level
[AD-A132039] 04 p0572 N84-13771
Mathematical simulation of diver performance
[AD-A133844] 05 p0713 N84-14671
A mathematical model for oxygen toxicity in man
[AD-A137379] 10 p1547 N84-20139
Decompression mechanisms and decompression schedule calculations
[AD-A137868] 11 p1695 N84-21060
Are living cells sensitivity to gravity?
[DFVLR-MITT-83-19] 17 p2743 N84-27418

DIVISION
The early roots of Babylonian mathematics. Part 3: Three remarkable texts from Elba
[CTH-MATH-198314-PT-3] 13 p2034 N84-23197

DMSP SATELLITES
Office automation in the acquisition environment
[AD-P002747] 13 p2049 N84-23294

DNA
U DEOXYRIBONUCLEIC ACID

DOCKING
U SPACECRAFT DOCKING

DOCUMENT STORAGE
The Korean auroral records, 1507 - 1747 and the SAR (Stable Auroral Red) arcs
[NASA-CR-174472] 01 p0104 N84-10677
The historical records of the Naval Research Laboratory: A guide for researchers
[AD-A131620] 02 p0302 N84-11982
NBS (National Bureau of Standards) Workshop: Environmental Control for Archival Records Storage
[PB83-242230] 03 p0460 N84-13026
A method for comparing the structure of a discipline to the structure of a bibliographic file for that discipline
10 p1593 N84-20443
Wang OIS glossary package for reformatting documents telecommunicated to the OIS system
[DE84-005113] 12 p1920 N84-22507
Progress in improving program and budget information for Congressional use
[AD-A137491] 12 p1920 N84-22511
Ordered address binary trees: A technique for the optimization of access to trees on disk
[INPE-2916-PRE/428] 13 p2026 N84-23133
Weapons file
[AD-A142508] 20 p3126 N84-29867
Conceptual design of a monitoring system for the Charters of Freedom
[NASA-CR-173909] 22 p3673 N84-33285

DOCUMENTATION
Computer center introductory reference manual for CDC 6000
[AD-A130941] 01 p0122 N84-10797
Representation of information in software documentation
[AD-A131470] 02 p0273 N84-11783
Documentation of concurrent programs
[AD-A131476] 02 p0273 N84-11784
APPLIB user's manual
[DE83-016238] 02 p0274 N84-11794
Paperwork Reduction Act amendments of 1983
[H-REPT-98-147] 02 p0303 N84-11989

Praxis language environment: Distribution-package description
[DE83-017546] 03 p0421 N84-12750
A study of critical factors affecting the development of performance measures in evaluating bibliographic information retrieval systems 03 p0460 N84-13030
AMIX: An automated system for handling error notification data — amendments on UNIX (trademark); AMIX 05 p0722 N84-14734
Qualigraph: A software tool for quality metrics and graphic documentation 05 p0723 N84-14739
The project library PLUS: A general overview 05 p0724 N84-14751
Interrange scheduling and Universal Documentation System (UDS) document development and transmission
[AD-A134398] 07 p0961 N84-16230
Further delineation of the utilization of scientific literature by U.S. patents. Appendices A: Distribution of references contained in patents to various sources
[PB84-100742] 08 p1239 N84-18096
User centered system design
[AD-A136131] 09 p1364 N84-18907
FORTRAN 5 cross-reference
[DE84-006438] 11 p1709 N84-21143
PSC, a programmable software controller for a multiple bladder, sequentially inflatable g-suit
[AD-A138069] 12 p1868 N84-22172
Generalized monitoring facility. Users manual. Change 7
[AD-A138533] 13 p2028 N84-23151
Documentation for the machine-readable version of a supplement to the Bright Star catalogue (Hoffleit, Saladyga and Wlasuk 1983)
[NASA-TM-85573] 13 p2070 N84-23415
Documentation for the machine-readable version of the general catalogue of 33342 stars for the epoch 1950 (Boss 1937)
[NASA-TM-85568] 13 p2071 N84-23420
OMEGA documentation
[DE84-007014] 14 p2206 N84-24239
Designing readable and reusable tables
[RAND/P-6945] 14 p2247 N84-24496
Automating the transformational development of software. Volume 2: Appendices
[AD-A139918] 15 p2392 N84-25356
Universal documentation system handbook - an introduction to the universal documentation system
[AD-A140140] 16 p2455 N84-25742
Report on a visit to England, 7-10 November 1983 — defense medical research
[FOA-C-59009-H1] 18 p2901 N84-28402
Universal documentation system handbook. Supplement 2: Procedures for the electronic processing of level 1, 2 and 3 test requirements and support information
[AD-A141850] 19 p2980 N84-26886
General principles in text analysis
[FOA-C-56042-H2] 19 p3116 N84-29804
Automated Construction Management System (ACMS). Volume 2: Program documentation
[AD-A143032] 21 p3466 N84-31972
Software documentation support
[AD-P003487] 21 p3513 N84-32254
Practical writing and editing techniques
[DE84-012642] 21 p3519 N84-32294
Terminal oversight: The editor and the word processor
[DE84-012648] 21 p3519 N84-32295
Flight systems raster graphics software reference manual
[ARL-SYS-TM-72] 22 p3639 N84-33072
Adaptive subject description in document retrieval 22 p3675 N84-33298
Advanced X-ray Astrophysics Facility (AXAF)
[NASA-CR-171156] 23 p3698 N84-33434

DOCUMENTS
NT ABSTRACTS
NT ASTRONOMICAL CATALOGS
NT BIBLIOGRAPHIES
NT CATALOGS (PUBLICATIONS)
NT ENGINEERING DRAWINGS
NT HANDBOOKS
NT MANUALS
NT PERIODICALS
NT PRESIDENTIAL REPORTS
NT RECORDS
NT SUPPLEMENTS
NT TEXTBOOKS
NT TEXTS
NT USER MANUALS (COMPUTER PROGRAMS)
NT VIDEO DISKS
The use and value of Defense Technical Information Center products and services
[AD-A130805] 01 p0161 N84-11061
Downloading and post-processing of bibliographic information with the TIS (Technology Information System) intelligent gateway computer
[AD-A130800] 01 p0162 N84-11082
Techniques for integrated text and image processing and communication
[BMFT-FB-T-83-104] 02 p0302 N84-11985
Comments on ISO/TC 97/SC 18/WG3 N120
[DE83-011391] 03 p0420 N84-12748
Annotated bibliography of battery evaluations
[DE84-000653] 04 p0527 N84-13466
ARDS (Automated Requirements Development System) user's manual. Volume 1: Document analysis, revision
[AD-A135925] 09 p1398 N84-19128
The Apollo concept: Electronic document delivery by satellite
[ESA-SP-1048] 09 p1405 N84-19179
Classified document handbook
[AD-A137002] 10 p1593 N84-20439
European Scientific Notes, Volume 38, Number 2
[AD-A137652] 11 p1746 N84-21394
Mechanized contract document preparation and abstract system
[AD-P002750] 13 p2050 N84-23297
Ocean Wave Statistics: A new look 18 p2855 N84-28129
Defense Technical Information Center referral data bank directory
[AD-A138400] 20 p3315 N84-31051
Information Center Complex publications and presentations, 1971-1982
[DE84-010603] 20 p3315 N84-31055
Content duplication among documents on specific subjects 21 p3516 N84-32274

DOGS
Laboratory for Energy Related Health Research
[DE84-000529] 20 p3257 N84-30672

DOLOMITE (MINERAL)
Stress-wave experiments on selected crustal rocks and minerals
[DE84-001613] 04 p0563 N84-13714
Geology of carbonate aggregate resources of Illinois, Illinois mineral notes
[PB83-251140] 04 p0565 N84-13725
Geochemistry and origin of regional dolomites
[DE84-008257] 15 p2369 N84-25214
Diagensis and deformation of the Madison Group, Colorado and Utah overthrust belt 22 p3620 N84-32938

DOMAIN WALL
Structure and phase transitions in bromine and potassium-mercury intercalated graphite
[AD-A133863] 05 p0645 N84-14244
Elastic domain wall waves in ferroelectric ceramics and single crystals
[AD-A142393] 20 p3308 N84-31011

DOMAINS
The fairness problem and nondeterministic computing networks 08 p1209 N84-17883
Frequency domain approach to structural analysis
[DE84-005110] 11 p1669 N84-20889
Interactive computer graphic surface modeling of three-dimensional solid domains for boundary element analysis 12 p1873 N84-22208
Toward a theory of library and information science 13 p2067 N84-23405
Grid-size reduction in flow calculations on infinite domains by higher-order far-field asymptotics in numerical boundary conditions
[NLR-MP-83029-U] 20 p3187 N84-30253
Analytic automorphisms of a bounded Reinhardt domain in a complex Banach space with base 22 p3636 N84-33044

DOMES (GEOLOGY)
Impact of Upheaval Dome, Utah 13 p2078 N84-23465
East Butte: A volcanic dome of the Eastern Snake River Plain, Idaho 13 p2079 N84-23475

DOMES (STRUCTURAL FORMS)
NT RADOMES

DOMESTIC ENERGY
Improvement of flat plate collectors for solar energy conversion
[BMFT-FB-T-84-042] 16 p2519 N84-26167

DOMESTIC SATELLITE COMMUNICATIONS SYSTEMS
WARC and CCIR support for spectrum-orbit planning
[NASA-CR-163048] 19 p2979 N84-26884

DOMINICAN REPUBLIC
Cenozoic tectonics of the Caribbean: Structural and stratigraphic studies in Jamaica and Hispaniola 13 p2013 N84-23062

DONOR MATERIALS
Electroactive heterocyclic polymers
[DE83-013592] 02 p0200 N84-11305
Evaluation of gallium nitride for active microwave devices
[AD-A132988] 05 p0754 N84-14947
Electron donor-acceptor quenching and photoinduced electron transfer for coumarin dyes
[AD-A136345] 09 p1394 N84-19105
Impurity and defect characterization in epitaxial GaAs InP and the ternary and quaternary compound semiconductors
[AD-A143551] 22 p3664 N84-33225

DOORS
Mach 0.6 to 3.0 flows over rectangular cavities
[AD-A134579] 07 p0948 N84-16153
Blast loadings of emergency exits for air-raid shelters type E
[FOA-C-20530-D4(D6)] 15 p2350 N84-25103
Fire induced flows through room openings - flow coefficients
[PB84-176759] 20 p3151 N84-30011
Columbia: The first 5 flights entry heating data series. Volume 5: The side fuselage and payload bay door
[NASA-CR-171732] 22 p3541 N84-32416

DOPED CRYSTALS
Dopant incorporation during nonequilibrium solidification
[DE83-014052] 01 p0154 N84-11014
Performance and materials aspects of Ge:Be photoconductors
[NASA-CR-174470] 01 p0155 N84-11023
Dopants profiling techniques in semiconductor technology
[BMFT-FB-T-83-126] 02 p0300 N84-11972
The growth and measurement of single-crystal doped GGG (Gd3-xCaxGa5-xZrx012)
[AD-A131875] 03 p0452 N84-12971
Defect interactions at high concentrations in solid oxide electrolytes
[DE83-016849] 03 p0455 N84-12992
Optical properties and correlation energy of defects in a-Ge:H
[DE83-016897] 03 p0455 N84-12993
Development and fabrication of a high current, fast recovery power diode
[NASA-CR-168196] 04 p0524 N84-13443
An In0 2Ga0 8As/GaAs, modulation-doped, strained-layer superlattice field-effect transistor
[DE84-000136] 06 p0924 N84-16006
Clustering model in n-doped many-valley semiconductors
[INPE-2911-PRE/424] 07 p1079 N84-17015
Elementary excitations in semiconductor superlattices structures 08 p1234 N84-18065
Fast diffusion of iron in single crystal rutile and iron doped rutile
[DE84-004021] 08 p1236 N84-18079
Investigation of silicon materials for solar cells. Part 1: Segregation and gettering properties of certain contaminations. Part 2: Measurement of electrical parameters
[BMFT-FB-T-83-204] 10 p1531 N84-20026
Particle scattering studies on foreign ions in superionic conductors
[AD-A137231] 10 p1588 N84-20406
Microstructure and microanalysis in relation to the grain boundary conductivity effect in doped ceria 11 p1741 N84-21358
Microstructure and electrical properties of ceria-based ceramic electrolytes 11 p1741 N84-21361
Re-examination of beta-alumina doped with chromium using photoacoustic spectroscopy 11 p1742 N84-21369
Spectroscopic investigations of materials for tunable infrared lasers
[AD-A138324] 12 p1821 N84-21869
Optimization of transparent electrode for solar cell and chemical vapor deposition of amorphous silicon
[DE83-017780] 12 p1843 N84-22014
Two-dimensional impurity bands at semiconductor hetero-structure interfaces
[INPE-2996-PRE/448] 12 p1912 N84-22456
Electrical, luminescence and SIMS (Secondary ion mass spectroscopy) characterization of carbon implanted vapor phase epitaxial gallium arsenide
[AD-A138094] 12 p1913 N84-22464
Fundamental studies of growth, doping and transformation in beta silicon carbide
[AD-A139179] 14 p2241 N84-24458
Development of neutron-transmutation-doped germanium bolometer material
[DE84-008248] 14 p2243 N84-24471
CO-2 laser heating of silicon and applications
[DE84-008273] 15 p2339 N84-25042
Influence of oxygen on defect production in electron-irradiated, boron-doped silicon 19 p3045 N84-29320

Cell and defect behavior in lithium-counterdoped solar cells 19 p3046 N84-29322
Preparation of mixed perovskite oxides for blue-green lasers
[AD-A142195] 19 p3111 N84-29768
High-speed thyristors on weakly doped GaAs 22 p3568 N84-32600
FET charge sensor and voltage probe
[NASA-CASE-NPO-16045-1] 22 p3662 N84-33211
Anomalous pressure dependence of dipolar relaxation times in rare earth doped lead fluoride
[AD-A143201] 22 p3662 N84-33215
Mechanisms involved in the glow-discharge deposition of doped hydrogenated amorphous silicon
[DE84-013124] 22 p3665 N84-33236
Nucleation and growth of N- and P-type microcrystals in low-temperature glow-discharge deposited silicon films
[DE84-013122] 22 p3667 N84-33246
Flat-plate solar array project process development area, process research of non-CZ silicon material
[NASA-CR-173926] 23 p3786 N84-34012
Excimer laser annealing to fabricate low cost solar cells
[NASA-CR-173936] 23 p3788 N84-34027
The research and fabrication of electronic materials and the establishment of characterization center of electronic materials 24 p3958 N84-35063

DOPES
Studies of hydrogenated amorphous silicon
[DE84-011868] 21 p3505 N84-32211
Process research of non-CZ silicon material
[NASA-CR-173954] 23 p3787 N84-34017
Progress research of non-Cz silicon material
[NASA-CR-173949] 23 p3787 N84-34021

DOPING (ADDITIVES)
U ADDITIVES

DOPPLER EFFECT
NT DOPPLER-FIZEAU EFFECT
Scanning laser Doppler anemometer and its application in turbulent separated flow
[AD-A130923] 01 p0084 N84-10548
Fabry-Perot velocimetry techniques: Is Doppler shift affected by surface-normal direction?
[DE83-015902] 02 p0224 N84-11472
African Doppler surveys (ADOS)
[AD-A131135] 02 p0240 N84-11574
Correlation between two spacecraft in the Doppler detection of a gravitational background radiation
[IFSI-83-7] 03 p0363 N84-12362
Observational evidence for solar wind acceleration at the base of coronal holes 03 p0468 N84-13082
Relativity and radars
[AD-A133791] 05 p0666 N84-14391
A study of a class of detection waveforms having nearly ideal range-Doppler ambiguity properties
[AD-A132597] 05 p0669 N84-14401
Ionospheric factors affecting the performance of HF sky-wave sea-state radars 06 p0868 N84-15656
Doppler lidar signal and turbulence study
[NASA-CR-170976] 08 p1163 N84-17574
Doppler system phase transfer functions for a system with an X-band uplink and X-band and S-band downlinks 10 p1474 N84-19627
Measurement of ocean surface winds by SEASAT synthetic aperture radar
[AD-A138392] 12 p1836 N84-21971
Range-Doppler Moving Target Indicator (MTI) analysis and assessment
[AD-A139579] 14 p2141 N84-23836
Optimization of fringe-type laser anemometers for turbine engine component testing
[NASA-TM-83658] 15 p2335 N84-25019
Molecular velocimetry using stimulated Raman spectroscopy
[NASA-TM-85808] 15 p2405 N84-25433
A high frequency radio technique for measuring plasma drifts in the ionosphere
[AD-A140509] 16 p2526 N84-26219
Spectral characteristics of the return 17 p2685 N84-27095
Techniques for measurement of vertical and horizontal velocities: Monostatic versus bistatic measurements 17 p2686 N84-27105
A new technique for monitoring the water vapor in the atmosphere 17 p2716 N84-27293
Laser Doppler spectroscopy of biological objects 17 p2742 N84-27408
Multipath induced errors in meteorological Doppler/interferometer location systems
[NASA-CR-175243] 18 p2844 N84-28058
Summary of work on cooled ion frequency standard, fiscal year 1984
[AD-A142189] 19 p3007 N84-29061
The program ORBDOP (extended GEODOP) — satellite position 19 p3039 N84-29280
Use of the Doppler ultrasound method to evaluate the rate of blood flow in children with patent ductus arteriosus
[ISSN-0208-5658] 19 p3064 N84-29441
Simultaneous detection of time coincident signals in an adaptive Doppler tracker
[AD-D011092] 22 p3577 N84-32659
Frequency correlation of HF skywave ground backscatter Doppler spectra
[PB84-204353] 22 p3578 N84-32668
Statistics at HF skywave ground backscatter Doppler spectra
[PB84-204973] 22 p3578 N84-32669
High-frequency acoustic backscatter from the sea surface
[AD-A143536] 22 p3652 N84-33152
A study for developing an ultrasonic Doppler flowmeter
[BMFT-FB-T-84-135] 23 p3752 N84-33788
Radiation pressure on atoms: Laser cooling and intense field effects
[AD-A143637] 23 p3754 N84-33793

DOPPLER NAVIGATION
Orbit determination of highly elliptical Earth orbiters using VLBI and delta VLBI measurements 04 p0518 N84-13402
Evaluation of installation of Lightweight Doppler Navigation System (LDNS) in Iroquois UH-1H aircraft
[AD-A137815] 11 p1605 N84-20510
Emulation of a voice interactive Doppler navigation set
[AD-A140204] 16 p2446 N84-25687
Reports on cartography and geodesy. Series 2: Translations, number 40
[ISSN-0469-4244] 19 p3039 N84-29279
Satellite Doppler point positioning using the Navy Navigation Satellite System 19 p3039 N84-29281
Final results of Doppler point positioning at several timekeeping laboratories in Europe 19 p3039 N84-29282
AN/APN-128 Lightweight Doppler Navigation System (LDNS) case study report (IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A142072] 20 p3127 N84-29860

DOPPLER RADAR
NT MULTISTATIC RADAR
A matched filter doppler processor for airborne radar
[AD-A130653] 01 p0065 N84-10425
Measured ionospheric Doppler spreading of HF ground backscatter
[PB83-220764] 01 p0068 N84-10446
An evaluation of an automatic cell detection and tracking algorithm
[AD-A130088] 01 p0107 N84-10694
Determination of a geoid profile across the Alps using Doppler measurements of the US Navy Navigation Satellite System (NNSS) 02 p0234 N84-11534
A polarization diversity radar data processor
[AD-A134011] 05 p0666 N84-14382
Relationships between thunderstorm mesoscale circulation and tornadogenesis 06 p0880 N84-15727
Sampling mismatch and timing jitter in pulse-Doppler radar
[AD-A134683] 08 p1144 N84-17447
Reports on cartography and geodesy, series 1: Original reports, number 90
[ISSN-0469-4236] 08 p1173 N84-17643
Investigations of Doppler position determination following the short arc and semi short arc techniques — Navy navigation satellite systems 08 p1174 N84-17645
Results of permanent Doppler measurements at the satellite observation station Wettzell 08 p1174 N84-17646
Calibration measurements of Doppler receivers — satellite Doppler positioning 08 p1174 N84-17647
Results of the simultaneous Doppler measuring campaign HOTDOC from 29 September to 10 October 1979 08 p1174 N84-17648
The search for gravitational waves with ISPM 09 p1263 N84-18241
The observation of artificial satellites and VLBI 10 p1519 N84-19946
The Lorentz Transformation and the radar Doppler equation
[AD-A137901] 11 p1643 N84-20745
Joint agency turbulence experiment: Environmental research paper
[AD-A137167] 11 p1687 N84-21005
Doppler radar having phase modulation of both transmitted and reflected return signals
[NASA-CASE-MSC-18675-1] 13 p1975 N84-22820
Single Doppler velocity signatures: An Atlas of patterns in clean air/widespread precipitation and convective storms
[PB84-155779] 14 p2181 N84-24063
Profs' Doppler radar data processing system. Part 1: Design and implementation with application to NEXRAD algorithms
[PB84-165224] 14 p2182 N84-24073
Real time divergence measurement from single Doppler radar
[AD-A140558] 17 p2653 N84-26966
Existence of a persistent background of turbulence 17 p2688 N84-27116
On the extraction of atmospheric turbulence parameters from radar backscatter Doppler spectra. Part 1: Theory 17 p2689 N84-27127
Characteristics of Sunset radar 17 p2690 N84-27131
VHF radar measurements during MAP/WINE 17 p2691 N84-27135
Chung-Li, Taiwan dual mode (Doppler and spaced antenna) VHF radar: Preliminary specifications 17 p2691 N84-27141
The mobile Sousy-Doppler radar: Technical design and first results 17 p2693 N84-27152
Decoding: Software implementations 17 p2694 N84-27161
Evaluation of meteorological airborne Doppler radar 17 p2715 N84-27287
Precipitation and precipitation efficiencies derived from single Doppler radar 18 p2887 N84-28321
Doppler weather radar applications to terminal and enroute air traffic control 18 p2887 N84-28324
Comparison of airborne turbulence-indicating doppler radar systems with ground-based doppler radar systems
[AD-A141474] 19 p3005 N84-29043
Reports on cartography and geodesy. Series 1: Original reports, number 91
[ISSN-0469-4236] 19 p3040 N84-29286
Doppler observation campaign in the Ivory Coast: Reconnaissance, measuring, interpretation and experience 19 p3040 N84-29289
Doppler-radar observation of the evolution of downdrafts in convective clouds
[NASA-CR-173874] 21 p3450 N84-31896
Autocorrelation receiver for Doppler short-range radar systems 22 p3566 N84-32589
Practical problems with CO2 laser radar tests
[RAE-TRANS-2113] 22 p3600 N84-32804
A three-dimensional description of the sea surface by means of marine navigation radar 23 p3771 N84-33906
Simultaneous remote sensing of atmospheric turbulence by radar optical means: A comparison 23 p3775 N84-33932
Radar cross section measurements of wingtip vortices 23 p3775 N84-33934
Retrieval of thermal and microphysical variables in observed convective storms 23 p3799 N84-34089
Bulk acoustic resonator tracking filter
[AD-D011159] 23 p3821 N84-34233
NASA/MSFC FY-84 Atmospheric Processes Research Review
[NASA-CP-2329] 24 p3923 N84-34829
Overview of global scale research Doppler lidar activities 24 p3924 N84-34836
Atmospheric backscatter research 24 p3924 N84-34837
Overview of mesocale research Doppler lidar activities 24 p3928 N84-34863
Evaluation of airborne lidar wind measurements 24 p3928 N84-34865
Doppler lidar results from the San Gorgonio Pass experiments 24 p3928 N84-34866
Analysis of MSFC ground-based Doppler lidar data 24 p3929 N84-34867
Analysis of Doppler lidar wind measurements 24 p3929 N84-34868

DOPPLER-FIZEAU EFFECT
Exploration of arterial function using Doppler flow determination. Application to aeronautical and space medicine 11 p1700 N84-21091

DOSAGE
NT RADIATION DOSAGE
Aerial radiological survey of Area 11, Nevada Test Site
[DE84-000440] 04 p0554 N84-13650
Status of research in progress at the Inhalation Toxicology Research Institute
[DE83-012610] 06 p0875 N84-15694
Acute intramuscular toxicity (LD50) of 1,1'-trimethylenebis (4-(Hydroxyiminomethyl) pyridinium bromide) monohydrate, (TMB-4) in male mice
[AD-A133148] 06 p0886 N84-15758
Short-term human respiratory effects of nitrogen dioxide: Determination of quantitative dose-response profiles. Phase 1: Exposure of healthy volunteers to 4 PPM NO/sub 2
[PB84-132299] 10 p1548 N84-20148

Exploration of dose-response techniques with some applications to a simulation problem
[AD-A138029] 12 p1880 N84-22252
Human response to pyridostigmine bromide
[AD-A140960] 18 p2900 N84-26395
Organophosphate toxicity: Genetics, receptors, and antidotes
[AD-A141059] 20 p3259 N84-30685
Properties of principal TL (thermoluminescence) dosimeters
[AD-A143635] 23 p3751 N84-33776

DOSE
U DOSAGE

DOSIMETERS
Pulmonary dosimetry of nitrogen dioxide in animals and man
[PB83-243394] 03 p0414 N84-12711
Recommended values of the humidity correction factor k sub h for determining exposure in an X-ray beam with free-air chambers
[JEN-542] 04 p0593 N84-13915
Dose conversion factors for inhaled radionuclides
[FOA-C-40184-A3] 06 p0890 N84-15786
Assessment of indoor dose from gamma ray emitters and radon daughters in Milan
[CISE-2118] 07 p1073 N84-16974
Some aspects of dosimetry in studies of biological effects of nonionizing electromagnetic radiation
15 p2375 N84-25248
An integrating dosimeter for pulsed radiation
[AD-A141288] 18 p2844 N84-28062
The Austrian primary standard for ionizing radiation dosimetry results of international intercomparisons
[OEFZS-4269] 18 p2900 N84-28401
New technique to improve the accuracy of albedo neutron dosimeter evaluations
[DE84-002458] 19 p3027 N84-29201
An investigation of lyolinescence techniques for application in radiation protection dosimetry
[PB83-263236] 19 p3053 N84-29373
Recent re-measurement of neutron and gamma-ray spectra 1080 meters from the APRD (Army Pulse Radiation Division) critical facility
[AD-A141791] 19 p3124 N84-29846
Inventory RF radiation levels in the Netherlands, part 1
[LEOK-TR-1984-02-PT-1] 20 p3175 N84-30167
Optical density radiation dose relationship — radiography
[CETIM-100680] 21 p3497 N84-32162
Develop real-time dosimetry concepts and instrumentation for long-term missions
[NASA-CR-171809] 22 p3599 N84-32791
Passive sampling device for ambient air and personal monitoring
[PB84-210046] 22 p3599 N84-32798
Studies of the electric field distribution in biological bodies: Experimental dosimetry at radio frequencies
[AD-A143507] 22 p3628 N84-32992
Dosimetry of ozone and nitrogen dioxide in man and animals
[PB84-195304] 22 p3631 N84-33009
Integration of species sensitivity and dosimetry data in the extrapolation of ozone and nitrogen dioxide health data from animals to man
[PB84-195312] 22 p3631 N84-33010
Properties of principal TL (thermoluminescence) dosimeters
[AD-A143635] 23 p3751 N84-33776
Thermoluminescence dosimeter
[DE84-014247] 23 p3751 N84-33782

DOSIMETRY
U DOSIMETERS

DOUBLE BASE PROPELLANTS
NT DOUBLE BASE ROCKET PROPELLANTS
Liquid chromatographic analysis of nitrocellulose-base propellants
[AD-A129005] 01 p0052 N84-10333
A comment on the plateau combustion mechanism of the double-base propellants
[AD-A132551] 04 p0509 N84-13333
Effect of O2 on double-base propellant ignition
13 p1949 N84-22673
Pyrotechnic shock: A literature survey of the Linear Shaped Charge (LSC)
[NASA-TM-82583] 18 p2852 N84-28109

DOUBLE BASE ROCKET PROPELLANTS
Tangential mode instability in double-base solid rocket motors: A case study 13 p1946 N84-22652

DOUBLE STARS
U BINARY STARS

DOUGLAS AIRCRAFT
NT C-9 AIRCRAFT
NT DC 10 AIRCRAFT

DOUGLAS MILITARY AIRCRAFT
U MILITARY AIRCRAFT

DOVAP
U DOPPLER EFFECT

DOWNLINKING
A 20-GHz IMPATT diode development
[S-3057] 02 p0212 N84-11387
Fundamentals of mode S parity coding
[DOT/FAA/PM-83/6] 11 p1642 N84-20736
Ice depolarization on low-angle 2 GHz satellite downlinks 15 p2323 N84-24946
Interference problems for nongeostationary satellites
[NASA-CR-173717] 18 p2802 N84-27780

DOWNWASH
A universal 3-dimensional wall pressure correction method for closed rectangular subsonic wind tunnel test sections (displacement, downwash, streamline curvature)
[ESA-TT-800] 13 p1935 N84-22588

DPCM (MODULATION)
U DIFFERENTIAL PULSE CODE MODULATION

DRAFTING (DRAWING)
Operation of a computer aided drafting system: Improvement, results and hopes
[DE84-005176] 11 p1708 N84-21134
DIGMAP, an interactive graphic support system for mine survey 20 p3225 N84-30496
Software research for computer aided cartography at the Berlin Technical University 20 p3226 N84-30503
Getting into CAD at the Savannah River Plant
[DE84-011581] 21 p3466 N84-31977

DRAFTING MACHINES
Off-line graphics processing: A case study
[DE84-002420] 06 p0898 N84-15832
Operation of a computer aided drafting system: Improvement, results and hopes
[DE84-005176] 11 p1708 N84-21134

DRAG
NT AERODYNAMIC DRAG
NT INTERFERENCE DRAG
NT PRESSURE DRAG
NT SATELLITE DRAG
NT SUPERSONIC DRAG
NT VISCOUS DRAG
NT WAVE DRAG
Aeroelastic considerations in preliminary design of a military combat aircraft 02 p0172 N84-11132
Transonic flow over an isolated profile and through a cascade of blade. Phenomenological analysis
05 p0626 N84-14118
A preliminary investigation of the drag and ventilation characteristics of livestock haulers
[NASA-CR-170408] 05 p0761 N84-14990
The effect of flow oscillations on cavity drag, and a technique for their control 06 p0780 N84-15109
Experimental investigation of the turbulent flow in smooth and longitudinal grooved tubes
[MPIS-3/1983] 07 p1004 N84-16510
Airfoil interaction with impinging vortex
[NASA-TP-2273] 09 p1250 N84-18159
Barriers to the migration of interphase boundaries
[AD-A137902] 11 p1633 N84-20679
Formation of chondrules by drag heating in dust-enriched environments 11 p1756 N84-21463
Numerical analysis of a variable camber rotor blade as a lift control device
[NASA-CR-173452] 12 p1789 N84-21538
Drag of two-dimensional small-amplitude symmetric and asymmetric wavy walls in turbulent boundary layers
[NASA-TP-2318] 16 p2486 N84-25944
An experimental and theoretical analysis of the aerodynamic characteristics of a biplane-winglet configuration
[NASA-TM-85815] 19 p2963 N84-28779
Quantum optics and photonics
22 p3682 N84-33344

DRAG BALANCE
U AERODYNAMIC BALANCE
U LIFT DRAG RATIO

DRAG CHUTES
Parachuting in night conditions
[FOA-C-59010-H1] 18 p2790 N84-27708
Parachute descent from altitude 5000 to 7000 meters
[FOA-C-59008-H1] 19 p2959 N84-28756

DRAG DEVICES
NT DRAG CHUTES
NT SPLIT FLAPS
NT SPOILERS
NT TRAILING-EDGE FLAPS
NT WING FLAPS
Direct force control 01 p0014 N84-10090

DRAG EFFECT
U DRAG

DRAG MEASUREMENT
Sidewall boundary layer corrections in subsonic, 2-dimensional airfoil-hydrofoil testing
[AD-A144002] 23 p3691 N84-33391
Determination of external store drag
24 p3847 N84-34397

DRAG REDUCTION
Optimum forebody shaping for axisymmetric submersibles with turbulent boundary layers and BLO (Boundary Layer Control) afterbodies
[AD-A130950] 01 p0079 N84-10515
Transonic configuration design
03 p0318 N84-12081
The effects of wing tip devices on the performance of the BAe Jetstream 03 p0326 N84-12130
Propulsion apparatus and method using boil-off gas from a cryogenic liquid — controlling spacecraft attitude and drag
[NASA-CASE-MFS-25846-1] 06 p0796 N84-15183
Investigation to optimize the passive shock wave-boundary layer control for supercritical airfoil drag reduction
[NASA-CR-173276] 07 p0946 N84-16135
Wave drag as the objective function in transonic fighter wing optimization
[NASA-TP-2265] 08 p1096 N84-17127
Investigation of aerodynamics of non axisymmetric projectiles
[AD-A139107] 14 p2101 N84-23609
The effect of strakes on vortical flows applied to aircraft
[AD-A139989] 15 p2257 N84-24560
International aviation (selected articles)
[AD-A140695] 17 p2601 N84-26671
In-flight lift and drag measurements on a first generation jet transport equipped with winglets
18 p2787 N84-27689
Improving the efficiency of smaller transport aircraft
[NASA-TM-85992] 19 p2963 N84-28780
Injection of drag reducing additives into turbulent water flows: Results from factorial design
[AD-A141675] 19 p3024 N84-29177
Development and flight evaluation of an augmented stability active controls concept with a small tail
[NASA-CR-173880] 22 p3537 N84-32395

DRAGULATORS
U BRAKES (FOR ARRESTING MOTION)
U DRAG DEVICES

DRAINAGE
Rubber removal from porous friction course
[FAA-PM-83-31] 02 p0182 N84-11184
Glaciological applications of LANDSAT images in connection with hydropower investigations in West Greenland 03 p0398 N84-12598
SRL tethersonde and echosonde data, Anderson Creek Valley, California
[DE84-001660] 04 p0564 N84-13715
Remote sensing and hydrologic models
[E84-10062] 07 p1022 N84-16628
Review of hydrologic models for evaluating use of remote sensing capabilities 07 p1022 N84-16629
Dynamic behavior of underground structures
10 p1507 N84-19860
Incorporation of remotely sensed soil moisture data into a hydrologic runoff model 13 p2007 N84-23017
Drainage evolution in the debris avalanche deposits near Mount Saint Helens, Washington
13 p2083 N84-23496
Quantitative and experimental modelling of sapping networks 13 p2084 N84-23500
Planetary geomorphology field studies: Washington and Alaska 13 p2084 N84-23501
Water balance at a small watershed during the snowmelt season, 1 15 p2354 N84-25123
Measurement of unsaturated flow below the root zone at an arid site
[DE84-006575] 15 p2359 N84-25158
Turbulent structure of stably stratified nocturnal slope flows
[AD-A140740] 17 p2734 N84-27378
Analytical and experimental study of grooved pavement runoff
[AD-A141021] 18 p2798 N84-27752
Infiltration and soil moisture redistribution in HEC-1
[AD-A141626] 19 p3041 N84-29295
Some physical concepts in complex terrain meteorology derived from the Department of Energy's ASCOT program
[DE84-010059] 20 p3247 N84-30607

DRAINAGE PATTERNS
Relative elevation determination from LANDSAT imagery 03 p0392 N84-12558
Spatial reasoning to determine stream network from LANDSAT imagery
[E84-10063] 06 p0865 N84-15632
Drainage evolution in the debris avalanche deposits near Mount Saint Helens, Washington
13 p2083 N84-23496
Fluvial drainage systems: Margaritifer Sinus and Agyre (NC, NE) quadrangles, Mars 13 p2083 N84-23497

DRAINING
U DRAINAGE
DRAWINGS
NT ENGINEERING DRAWINGS
DREDGED MATERIALS
Interpretative analysis of surficial sediments as an aid in transport studies of dredged materials Cape Canaveral, Florida
[AD-A140759] 17 p2724 N84-27339
DRIFT (INSTRUMENTATION)
Bottomside sinusoidal waves, a new class of equatorial plasma irregularities 05 p0705 N84-14626
Measurements of elongational viscometry using a fiber spinning technique. Part 1: Modifications to the Sangamo Schlumberger elongational viscometer model E4
[AD-A140002] 15 p2333 N84-25010
DRIFT RATE
Evaluation of the stochastic drift of rate integrating gyros as preparation for the analysis of laser gyro drift measurements
[DFVLR-MITT-83-04] 03 p0376 N84-12449
Evidence for a hot electron flux limit in laser-produced plasma experiments
[DE84-001365] 04 p0540 N84-13555
Studies of ions in a drift field: Laser diagnostics of excited states and measurements of thermochemical properties at equilibrium
[DE84-000363] 04 p0541 N84-13562
Drift waves in rotating plasmas
[DE84-000391] 06 p0921 N84-15988
Equatorial scintillation of satellite signals and some drift characteristics of the scintillation
[AD-A137555] 11 p1642 N84-20738
Drift prediction for a roll-stabilized inertial measurement system
[AD-P002674] 11 p1657 N84-20811
Drift movement of aerosol particles in field of atmospheric gravity waves 17 p2706 N84-27242
Apparatus for the determination of ion drift in MIS structures
[FOA-C-30360-E1] 23 p3631 N84-34301
DRILL BITS
Forty years of development in diamond tools
[CSIR-TRANS-1730] 22 p3583 N84-32564
DRILLING
NT LASER DRILLING
Laser chemical etching of vias in GaAs
[AD-A131288] 02 p0226 N84-11479
Cold-form tapping of internal threads 09 p1292 N84-18435
Effect of liquid tin-zinc on the drilling parameters of several alloys
[PB84-134782] 10 p1464 N84-19562
Vectorization of a penalty function algorithm for well scheduling 10 p1562 N84-20233
Multi-small hole drilling by EDM — electrodischarge machining (EDM)
[PNR-90184] 13 p1975 N84-22813
A review of advanced manufacturing technology — gas turbine components
[PNR-90194] 13 p1975 N84-22815
Georges Bank monitoring program: Analysis of trace metals in bottom sediments during the second year of monitoring
[PB84-169465] 16 p2534 N84-26269
Temperature profiles from Salt Valley, Utah
[DE84-300996] 21 p3444 N84-31854
DRINKING
Heat pump units with electrically driven compressors for water heating
[BLL-OA-TRANS-2181-(6196.3)] 08 p1154 N84-17514
DRIVES
All-electric accessory drive systems: Implications on engine design and performance 03 p0336 N84-12184
DROGUE PARACHUTES
U DRAG CHUTES
DROGUES
U TOWED BODIES
DRONE HELICOPTERS
U HELICOPTERS
DROP SIZE
Climatological coefficients for rain attenuation at millimeter wavelengths
[PB84-104272] 08 p1148 N84-17475
Pneumatic atomization with coaxial injectors: Measurements of drop size by diffraction method and liquid phase fraction by attenuation method
[NAL-TR-768] 09 p1312 N84-18574
Measurements in liquid fuel sprays 11 p1608 N84-20526
Fuel spray diagnostics 11 p1608 N84-20527
Development and implementation of advanced diagnostic techniques 11 p1608 N84-20528
Analysis and testing of a new method for drop size and velocity measurements using laser light scatter interferometry 11 p1608 N84-20529
Measurement of spray combustion processes 11 p1609 N84-20530
Automatic holographic droplet analysis for liquid fuel sprays 11 p1609 N84-20531
Predictions of spray combustion interactions 11 p1609 N84-20532
Combustion characteristics in the transition region of liquid fuel sprays 11 p1609 N84-20534
Aerodynamic effect of combustor inlet-air pressure on fuel jet atomization
[NASA-TM-83611] 13 p1989 N84-22910
Producing a cryogenic gust in an Eiffel type atmospheric wind tunnel with short gust 14 p2095 N84-23569
Optical measurements of droplet size distributions: Special considerations in the parameter definition for fuel atomizers 15 p2290 N84-24745
A droplet evaporation rate controlled combustion model 15 p2293 N84-24761
Characterization of heavy oil sprays in isothermal and burning conditions with laser light scattering measurements in the sideward region 15 p2294 N84-24766
Electrical spray modification with various fuels in a t56 combustor
[AD-A139961] 15 p2304 N84-24824
Acidification of rain by the oxidation of dissolved SO2 and the absorption of HNO3
[PB84-168366] 15 p2367 N84-25200
The structure of evaporating and combusting sprays: Measurements and predictions
[NASA-CR-173778] 19 p3021 N84-29155
Analysis and testing of a new method for drop size measurement using laser scatter interferometry
[NASA-CR-174636] 21 p3405 N84-31595
DROP TESTS
Vertical drop test of a transport fuselage section located forward of the wing
[NASA-TM-85679] 01 p0094 N84-10611
New techniques for absolute gravity measurements
[AD-A129285] 02 p0242 N84-11625
Investigations on the reproducibility of the results of drop weight tests by the method of W. S. Pellini
[BLL-DRIC-T-6970-(3623.66)] 06 p0846 N84-15517
Dynamic assessment of B-52B-008 carrier aircraft for the revised Space Shuttle solid rocket booster decelerator subsystem drop test vehicle
[NASA-CR-170989] 12 p1779 N84-21606
DROP TOWERS
Electromagnetic levitation coil fabrication technique for MSFC containerless processing facilities
[NASA-TM-82565] 09 p1306 N84-18535
DROP TUBES
U DROP TOWERS
DROP WEIGHT TESTS
U DROP TESTS
DROPS (LIQUIDS)
NT RAINDROPS
Variation of the size of nitrogen droplets in a flow of gaseous nitrogen
[DFVLR-FB-83-13] 02 p0221 N84-11450
Numerical simulations of fuel droplet flows using a Lagrangian triangular mesh
[NASA-CR-168263] 03 p0370 N84-12411
Topically classified bibliography on shapes of falling drops, drops in electric fields and related topics
[AD-A131134] 03 p0371 N84-12417
Design and operation of a light-scattering device for sizing and velocimetry of large droplets
[DE83-902641] 03 p0377 N84-12456
Quantum-mechanical calculations of the properties of liquid He droplets
[DE84-000164] 04 p0491 N84-13220
Injection, atomization, ignition and combustion of liquid fuels in high-speed air streams
[AD-A133806] 05 p0648 N84-14264
Droplet decomposition in a reactive atmosphere: Complete responses for large activation energies
[AD-A132640] 05 p0650 N84-14273
Theoretical studies on heterogeneous combustion
[DE84-003178] 07 p0971 N84-16289
Acoustic damping by microcondensate — in supersonic nozzle 07 p1070 N84-16952
Mass transfer during drop formation in the presence of interfacial turbulence in the liquid-liquid systems
[BLL-DOUNREAY-TR-923-(9091.9F)] 09 p1311 N84-18568
Interfacial tension between water and selected superheated liquids by quadrupole oscillations of drops
[AD-A136996] 10 p1455 N84-19502
Effect of liquid droplets on turbulence structure in a round gaseous jet 11 p1609 N84-20533
Laminar condensation heat and mass transfer to a drop moving at intermediate or high Reynolds number 11 p1651 N84-20777
Numerical simulation of the flow of a chemical contaminant subjected to a jet impingement
[AD-P002936] 14 p2196 N84-24176
Study of aerospace materials, coatings, adhesions and processes. Aircraft icing processes
[AD-A139743] 15 p2257 N84-24557
Aerosol growth in a cold environment
[AD-A139907] 15 p2287 N84-24720
Liquid fuel atomization and mixing in a high velocity air stream 15 p2291 N84-24746
Detailed fuel spray analysis techniques 15 p2291 N84-24747
Droplet size distribution and liquid volume concentration in a water spray: Predictions and measurements 15 p2291 N84-24748
Electrical spray modification with various fuels in a t56 combustor
[AD-A139961] 15 p2304 N84-24824
Entrainment and deposition of drops in a dispersed 2-phase flow: An experimental investigation
[CFD/83/6] 18 p2838 N84-28013
Comparison of icing cloud instruments for 1982-1983 icing season flight program
[NASA-TM-83569] 20 p3129 N84-29870
Organic azides as jet fuel additives: Synthesis of azides and micro-explosion characteristics of droplets 20 p3144 N84-29963
Solidification of highly undercooled liquid droplets
[AD-A143892] 23 p3714 N84-33543
An evaluation of polymer coatings for the promotion of dropwise condensation of steam
[AD-A144018] 23 p3725 N84-33602
Effect of physical properties on break-up and atomization of liquid jets in a supersonic crossflow 24 p3851 N84-34427
DROPSONDES
The Project STRAFAM: Test of a new parachute based instrument carrier for stratospheric research — dropsondes
[BMFT-FB-W-84-021] 21 p3445 N84-31859
Investigation into the internal aerodynamic design and associated errors in a fast descent ducted sonde for the measurement of atmospheric pressure and temperature (AMPARS phase 2)
[AD-A143189] 22 p3625 N84-32969
DROUGHT
Role of soil moisture in maintaining droughts 12 p1859 N84-22110
On the 1983 drought in Northeast Brazil
[INPE-3110-PRE/509] 16 p2528 N84-26229
A report of Ceara Project activities
[INPE-2988-RPE/452] 17 p2711 N84-27260
Teleconnections and sea surface temperature anomaly effects on the drought of 1983 in northeast Brazil
[INPE-3214-PRE/567] 21 p3446 N84-31867
An approach for agricultural drought monitoring using NOAA/AVHRR and LANDSAT imagery 23 p3769 N84-33893
Large scale tropical heat sources and global atmospheric energy propagation associated with droughts in Northeast Brazil
[INPE-3227-PRE/578] 24 p3918 N84-34806
Transient convection over the Amazon/Bolivia region and the dynamics of drought over northeast Brazil
[INPE-3226-PRE/577] 24 p3922 N84-34823
A synoptic study of the influence of extra-tropical latitude systems on the climatic variability in northeast Brazil
[INPE-3225-PRE/576] 24 p3922 N84-34824
A study of the influence of extra-tropical latitude systems on the climatic variability in Northeast Brazil
[INPE-3264-PRE/595] 24 p3922 N84-34825
Are droughts predictable?
[INPE-3274-PRE/598] 24 p3923 N84-34826
DROUGHT CONDITIONS
U DROUGHT
DROWSINESS
U SLEEP
DRUG THERAPY
U CHEMOTHERAPY
DRUGS
NT ANTIBIOTICS
NT ANTIDOTES
NT ATROPINE
NT CHLOROFORM
NT CORTISONE
NT EPINEPHRINE
NT ERGOTAMINE
NT HEMOSTATICS
NT INSULIN
NT MORPHINE
NT MOTION SICKNESS DRUGS
NT NARCOTICS
NT SEDATIVES

Prevention of acute mountain sickness by dexamethasone
[AD-A131533] 01 p0114 N84-10737
Permeability of sodium sulfacyl through membrane structures differing in degree of organization with exposure to low-frequency magnetic field
07 p1043 N84-16763
Voltammetric studies of Zomepirac sodium and its determination in tablets by differential-pulse polarography
[AD-A136982] 10 p1455 N84-19499
Hypnotics and air operations
11 p1697 N84-21072
Efficacy of conditioning animals to hypoxia during sleep 15 p2377 N84-25261
Pharmacologic counter measures minimizing post-space flight orthostatic intolerance — bed rest, drug disposition, and physiological function
[NASA-CR-173861] 21 p3457 N84-31936

DRUMLINS
U GLACIAL DRIFT

DRUMS (CONTAINERS)
Multi-isotopic gamma ray assay system for alpha contaminated waste
[DE83-015254] 02 p0292 N84-11917
Development and fabrication of collapsible fuel storage drums for arctic use
[AD-A141207] 18 p2798 N84-27754

DRY CELLS
NT NICKEL ZINC BATTERIES
Development of maintenance-free lead batteries
[BMFT-FB-T-83-150] 02 p0216 N84-11419

DRY FRICTION
Measurement and analysis of platform damping in advanced turbine blade response
10 p1514 N84-19911
Plane motion of solid body on rough surface of annular bearing rotating about its axis perpendicular to plane of motion 13 p1973 N84-22801

DRYING
NT DEHUMIDIFICATION
NT DEHYDRATION
NT FREEZE DRYING
Temperature distributions, boiling and dry-out behind local blockages — liquid metal fast breeder reactors (LMFBR) 06 p0843 N84-15495
Applications for anaerobic adhesives, with particular reference to the replacement of conventional locking devices 09 p1291 N84-18433
Influence of the environment on the application and drying quality of organic paints — aircraft structures
[SNIAS-832-551-102] 16 p2471 N84-25833
Effect of mechanical stress on the dielectric properties of wood
[AD-A140608] 17 p2680 N84-27069
New facts concerning dessication of Central Asia
18 p2856 N84-28136

DSIF (INSTRUMENTATION FACILITY)
U DEEP SPACE INSTRUMENTATION FACILITY

DTA (ANALYSIS)
U THERMAL ANALYSIS

DTMB-111 GROUND EFFECT MACHINE
U GROUND EFFECT MACHINES

DTMB-430 GROUND EFFECT MACHINE
U GROUND EFFECT MACHINES

DUAL MODE PROPULSION
U HYBRID PROPULSION

DUAL SPIN SPACECRAFT
Nonlinear attitude stability of a dual-spin spacecraft containing spherical dampers
[AD-A141307] 18 p2807 N84-27821

DUALITY PRINCIPLE
Duality in inexact fractional programming with set-inclusive constraints
[DE84-023584] 22 p3642 N84-33092

DUALITY THEOREM
Duality in inexact fractional programming with set-inclusive constraints
[DE84-023584] 22 p3642 N84-33092

DUCT GEOMETRY
Developing flow in S-shaped ducts. 2: Circular cross-section duct
[NASA-CR-3759] 09 p1312 N84-18572
Helical shear of an elastic circular tube with non-convex stored energy 15 p2313 N84-24882

DUCTED FANS
A study of the cross flow fan
23 p3688 N84-33372

DUCTED FLOW
NT KNUDSEN FLOW
Computation of three-dimensional flows in ducts of varying cross sections
[AD-A130194] 01 p0078 N84-10509
Effect of periodic, tapered enlargements and contractions on turbulent heat transfer and fluid flow in a circular duct 02 p0217 N84-11422
Experimental study of flow reattachment in a single-sided sudden expansion
[NASA-CR-3765] 09 p1312 N84-18571
Extension to an analysis of turbulent swirling compressible flow for application to axisymmetric small gas turbine ducts
[NASA-CR-165597] 11 p1753 N84-21445
Development of temperature-, velocity- and concentration-profiles in a curved combustor
15 p2292 N84-24757
On modeling dilution jet flowfields
[NASA-TM-83708] 16 p2450 N84-25713
A space-marching method for the Navier-Stokes equations for internal flows 21 p3397 N84-31550
Developing turbulent flow in strongly curved passages of square and circular cross-section
[AD-A143279] 22 p3593 N84-32755
An experimental investigation of an underexpanded rectangular jet ejector 23 p3688 N84-33374

DUCTED PROPELLERS
U SHROUDED PROPELLERS

DUCTED ROCKET ENGINES
Turbulent mixing and combustion of multi-phase reacting flows in ramjet and ducted rocket environment
[AD-A133802] 05 p0632 N84-14152
Multi-ducted inlet combustor research and development
[AD-A135906] 09 p1257 N84-18205

DUCTILITY
Spirally-reinforced high-strength concrete columns
[PB83-223297] 01 p0059 N84-10388
A method of solving ductility theory problems
[BLL-M-35125-(5828.4)] 01 p0093 N84-10607
The effects of specimen size, specimen geometry and data analysis procedures on ductile crack growth resistance curves
[AERE-R-10906] 01 p0096 N84-10638
Initial evaluation of molybdenum-rhenium alloy for reactor heat pipes
[DE83-012687] 01 p0145 N84-10955
A surface analytical examination of Stringer particles in Al-Li-Cu alloys
[NASA-TM-85854] 02 p0193 N84-11257
Hydrogen embrittlement of a 12 Cr-1 Mo steel
[DE83-016781] 02 p0195 N84-11270
A study of plastic flow localization and other instability phenomena in rate-sensitive ductile solids
02 p0230 N84-11510
Analysis of nonuniform deformation in ductile single crystals 02 p0297 N84-11951
Solid impingement erosion mechanisms and characterization of erosion resistance of ductile metals
[NASA-TM-83492] 03 p0352 N84-12287
Strain rate effects on ductile/brittle transitions in steels
[DE83-016906] 03 p0355 N84-12308
Segregation and domain structure in rapidly solidified Ni3Al
[DE83-017188] 04 p0504 N84-13306
Miniaturized disk bend tests of neutron-irradiated path A type alloys
[DE84-001277] 04 p0549 N84-13618
Particulate erosion mechanisms
[NASA-TM-83551] 05 p0652 N84-14289
Approximate linear stability analysis of a model of adiabatic shear-band formation
[DE84-001918] 05 p0656 N84-14316
Carbide precipitation in nickel-base model alloys and its influence on ductility and fracture behavior at room temperature
[JUEL-1845] 05 p0657 N84-14319
MIT miniaturized disk bend test
[DE84-001275] 05 p0694 N84-14554
Modelling particle - particle interaction at the micro scale
[AD-A133969] 05 p0744 N84-14885
Use of the disk bend test to assess irradiation performance of structural alloys
[DE84-001484] 06 p0806 N84-15255
Effects of hydrogen on strength and ductility of tantalum 06 p0807 N84-15260
Site-dependent inelastic response spectra
06 p0862 N84-15620
Integrated evaluation of tensile strengths and ductility limits
[BLL-M-35452-(5828.4)] 08 p1169 N84-17613
Metal formability in bulk deformation processes
09 p1293 N84-18446
Extended experimental and theoretical investigations to quantify ductile fracture behavior, using MnMoNi 55
[MPA-82-01] 09 p1334 N84-18709
The ductility of metal diffusion coatings on nickel alloys and their characterization
[BLL-RISLEY-TRANS-4883] 12 p1795 N84-21706
Microscopic study of the influence of impurities on interface bonding
[AD-A139300] 14 p2120 N84-23705
Microscopic and macroscopic appearance of ductile violent fractures (slide fractures)
14 p2125 N84-23739
A detailed comparison of hydrogen and mercury embrittlement in Monel 400
[AD-A139119] 14 p2127 N84-23753
Energy and statistical effects in the dynamic fragmentation of metal rings
[DE84-005458] 14 p2128 N84-23760
Influence of soft inclusions on the strength of wrought materials
[NASA-CR-173610] 16 p2464 N84-25791
Prediction of ductile crack growth in the austenitic steel WN 1.4948 at ambient and elevated temperature
[REPT-5011202-81-2] 17 p2625 N84-26799
The influence of overheating on the development of structures, on ductility, and on corrosion resistance of the heat effect zones of stabilized austenitic nickel-chromium steels
[MPA-83-03] 18 p2815 N84-27872
Effect of austenitisation heat treatment on the fracture resistance and temper embrittlement of MnMoNi steels
[AERE-R-11043] 18 p2816 N84-27882
Transformation plasticity in high-strength materials
[DE84-006655] 19 p2966 N84-28922
Ring ductility of irradiated Inconel 706 and Nimonic PE16
[DE84-010397] 20 p3155 N84-30034
Ductile aluminide alloys for high temperature applications
[DE84-011037] 20 p3156 N84-30038
Role of grain size on the brittle to ductile transition of the strongly ordered alloy Ni3Al
[DE84-014904] 22 p3556 N84-32519
Investigation of rapidly solidified Ni3Al-based alloys
[AD-A144174] 24 p3883 N84-34604
Erosion mechanisms of metals
[AD-A144194] 24 p3884 N84-34605

DUCTS
NT ACOUSTIC DUCTS
NT AIR DUCTS
Spinning mode acoustic radiation from the flight inlet
[NASA-CR-172273] 06 p0906 N84-15896
Experimental investigation of turbulent heat transfer in straight and curved rectangular ducts
[AD-A136239] 09 p1313 N84-18581
Analysis of three-dimensional viscous internal flows
[AD-A135782] 09 p1315 N84-18592
Tropospheric propagation assessment
15 p2326 N84-24965
Studies of heat transfer in complex internal flows
[AD-A140604] 17 p2668 N84-27014
Raman spectroscopy measurements of flame quenching in a duct-type crevice, appendix B
[DE84-008328] 21 p3362 N84-31329
Laser beam duct pressure controller system
[AD-D011102] 22 p3601 N84-32811

DUMMY LOADS
U IMPEDANCE
U LOADING
U OUTPUT

DUMPING
Spiral Kicker for the beam abort system
[DE84-007267] 15 p2406 N84-25442

DUNES
Northeast Scotland coastal field guide and geographical essays
[AD-A134861] 08 p1178 N84-17674
A possible source for the Martian circumpolar dune material 13 p2082 N84-23490
Wind erosion and dune formation on high frozen bluffs
13 p2082 N84-23493
Recent eolian activity and paleoclimate fluctuations in the Ferris Lost Soldier Area, South-Central Wyoming
21 p3441 N84-31830

DUNGEYS WIND SHEAR MECHANISM
U WIND SHEAR

DUPLEXERS
Subsystem duplexer for a 6-4 GHz Earth station
[INPE-2795-PRE/357] 05 p0666 N84-14379

DUPLICATING
U REPRODUCTION (COPYING)

DURABILITY
Flight service evaluation of Kevlar-49 epoxy composite panels in wide-bodies commercial transport aircraft
[NASA-CR-166065] 01 p0030 N84-10188
Ozone toxicity effects consequent to prolonged, high intensity exercise
[PB83-237388] 02 p0267 N84-11755
Assessment of potential for batteries in space applications 03 p0346 N84-12246
Some comments on longevity by a technologist
03 p0346 N84-12247

Environmental durability of aluminum adhesive joints protected with hydration inhibitors
[AD-A135304] 09 p1288 N84-18412
Durability and failure analyses of a silane treated Alpha-Al2O3/Polyethylene joint in wet environment
[AD-A136089] 09 p1333 N84-18705
Ultrasonic and optical evaluation of surgical implant materials and devices. A durability study of pericardial bioprostheses
[NASA-CR-173437] 16 p2535 N84-26274
USAF durability design handbook: Guidelines for the analysis and design of durable aircraft structures
[AD-A142424] 20 p3128 N84-29866
Residual-strength tests of L-1011 vertical fin components after 10 and 20 years of simulated flight service 20 p3145 N84-29970
Worldwide flight and ground-based exposure of composite materials 20 p3145 N84-29971
Development of ferrous metallurgy described 23 p3707 N84-33499

DURATION
U TIME

DUST
NT COSMIC DUST
NT INTERPLANETARY DUST
NT METEOROID DUST CLOUDS
NT TERRESTRIAL DUST BELT
NT ZODIACAL DUST
Infrared observations of cometary solids 02 p0304 N84-11997
Transport and diffusion of buoyant material
[AD-A132613] 05 p0708 N84-14642
Infrared measurements of AFGL (Air Force Geophysics Laboratory) sources
[AD-A133553] 06 p0938 N84-16098
Properties of aerosols during a dust storm over the Beijing area
[AD-A136521] 09 p1344 N84-18783
Feasibility study to conduct windblown sediment experiments aboard a space station
[NASA-CR-175434] 12 p1776 N84-21586
The sensitivity of a general circulation model to Saharan dust heating 12 p1858 N84-22106
Cometary nucleus and active regions 13 p2075 N84-23450
Wind streaks on Mars: Comparisons of production models with observations of bright streaks 13 p2081 N84-23486
Dust streaks on Mars: Colors and photometry 13 p2082 N84-23489
A possible source for the Martian circumpolar dune material 13 p2082 N84-23490
Velocities of windblown particles in saltation: Venus, Earth, and Mars 13 p2082 N84-23491
Explosion parameters of ferroalloy dusts
[BLL-M-35571-(5828.4)] 20 p3165 N84-30102
Dust particles in high speed flows: Calculations of small particle reentry hydrodynamics
[DE84-010998] 20 p3186 N84-30245
The climatic impact of volcanic activity 22 p3624 N84-32983
Eolian quartz granulometry as a paleowind indicator in the Northeast Equatorial Atlantic, North Pacific and Southeast Equatorial Pacific 23 p3796 N84-34069

DUST STORMS
Mariners Weather Log, volume 27, number 2, Fall 1983
[PB84-133115] 10 p1541 N84-20100
Martian dust storms witnessed by Viking Lander 1 13 p2081 N84-23487
Long range transport of fine grained sediments on Mars: Atmospheric dust loading, as inferred from Viking Lander imaging data 13 p2082 N84-23488

DWARF NOVAE
On the masses of white dwarfs in cataclysmic binaries 21 p3524 N84-32323
Dwarf novae through the outburst cycle 24 p3979 N84-35203
The outbursts of dwarf novae 24 p3979 N84-35204

DWARF STARS
NT DWARF NOVAE
NT SUBDWARF STARS
NT WHITE DWARF STARS
Visible and infrared studies of atacisymic variable stars 05 p0762 N84-14997
Absolute magnitude calibration for red dwarf stars 09 p1411 N84-19231
On the frequency of wide pairs among nearby dwarf stars 09 p1412 N84-19236
Bright, rapid, highly polarized radio spikes from the M dwarf AD Leo
[AD-A136205] 09 p1418 N84-19275
The K2-Dwarf V471 TAU: A stellar version of solar variability 17 p2779 N84-27647
Search for chromospheric indicators in A dwarf stars 24 p3974 N84-35169
The Mg 2 lines in A dwarf stars 24 p3974 N84-35170
The search for superionization lines in A dwarf stars 24 p3975 N84-35171
IUE observations of BY Draconis 24 p3975 N84-35176
Coordinated IUE and ground-based observations of active stars: Flare events on YZ CMi, V 1005 ORI, AD Leo and AR Lac 24 p3975 N84-35177
Carbon and nitrogen abundances in field dwarf stars 24 p3986 N84-35236

DWELL
The effects of environment and dwell on high temperature fatigue crack growth of 2 1/4 Cr - 1 Mo steel
[AD-A132147] 04 p0549 N84-13617

DYADICS
Elements of dyadic algebra and its application in electromagnetics
[REPT-S-126] 09 p1304 N84-18527

DYE LASERS
Academician outlines accomplishments, new developments in optical physics 01 p0055 N84-10359
InP:Fe picosecond photoconductors
[DE83-015237] 02 p0215 N84-11410
Laser dye toxicity, hazards and recommended controls
[DE83-011896] 02 p0227 N84-11485
Narrow-band, near-UV, high-repetition-rate laser-induced fluorescence system for use as an dge diagnostic in fusion machine
[DE84-000586] 04 p0542 N84-13567
Products of photodegradation for coumarin laser dyes
[AD-A136308] 09 p1320 N84-18624
Photochemistry and photophysics of laser dyes
[AD-A136330] 09 p1320 N84-18626
Solvent effects on emission yield and lifetime for coumarin laser dyes. Requirements for a rotatory decay mechanism
[AD-A136358] 09 p1321 N84-18629
Photophysical and photochemical properties of coumarin laser dyes in amphiphilic media
[AD-A136361] 09 p1321 N84-18630
An intense excitation source for high power (Blue-green) laser
[AD-A135873] 09 p1322 N84-18637
Nonlinear optics with broad-band lasers
[DE84-005769] 12 p1908 N84-22432
Intensity and absorbed-power distribution in a cylindrical solar-pumped dye laser
[NASA-TP-2321] 14 p2150 N84-23878
Dye laser traveling wave amplifier
[NASA-CR-175228] 15 p2338 N84-25036
Basic elements of laser radar
[INPE-3123-MD/025] 16 p2497 N84-26021
Study of VUV generation by coherent resonant frequency mixing in metal vapors
[AD-A140600] 17 p2663 N84-26989
Semiconductors investigated by time resolved Raman absorption and photoluminescence spectroscopy using femtosecond and picosecond laser techniques
[AD-A141361] 19 p3029 N84-29209
Measurement of lifetimes of the vibrational levels of the B state of N2
[AD-A142161] 19 p3101 N84-29702
New type of dye laser with light-induced distributed feedback 21 p3482 N84-32067
Experiments in development of powerful dye laser 21 p3486 N84-32095
Optically pumped polarized alkali atomic beams and targets
[DE84-012389] 21 p3495 N84-32147

DYES
NT THIAZINE (TRADEMARK)
Laser dye toxicity, hazards and recommended controls
[DE83-011896] 02 p0227 N84-11485
New materials for organic photovoltaic cells
[DE83-016845] 03 p0404 N84-12645
Dynamic aspects of the dye-sensitized photoconductivity of semiconductors
[DE84-001132] 04 p0615 N84-14059
Rapid identification of micro-organisms
[AD-A132831] 06 p0886 N84-15759
Products of photodegradation for coumarin laser dyes
[AD-A136308] 09 p1320 N84-18624
Photochemistry and photophysics of laser dyes
[AD-A136330] 09 p1320 N84-18626
Photodegradation of coumarin laser dyes. An unexpected singlet self-quenching mechanism
[AD-A136339] 09 p1321 N84-18628
Solvent effects on emission yield and lifetime for coumarin laser dyes. Requirements for a rotatory decay mechanism
[AD-A136358] 09 p1321 N84-18629
Photophysical and photochemical properties of coumarin laser dyes in amphiphilic media
[AD-A136361] 09 p1321 N84-18630
Electron donor-acceptor quenching and photoinduced electron transfer for coumarin dyes
[AD-A136345] 09 p1394 N84-19105
Optical bistability in four-level nonradiative dyes 14 p2237 N84-24425
Thiazine dyes for use in photogalvanic cells
[DE84-009097] 15 p2330 N84-24990
The black-anodizing of aluminum with inorganic dyes
[ESA-PSS-01-703-ISSUE-1] 16 p2465 N84-25798
Dyes for displays
[BMFT-FB-T-84-100] 16 p2557 N84-26401
Transient photochemistry of neutral red
[AD-A131564] 18 p2810 N84-27839
Color film preservation system: Breadboard development
[NASA-CR-171099] 19 p3026 N84-29194
Environmental and water quality operational studies. Fluorometric techniques for tracing reservoir inflows
[AD-A143135] 21 p3436 N84-31801
Optical and electrical properties of organic dye crystals
[DE84-014930] 22 p3666 N84-33240
Preparation of certain m-aminophenols and the use thereof for preparation of laser dyes
[DE84-014232] 23 p3755 N84-33803

DYNAMIC CHARACTERISTICS
NT AERODYNAMIC DRAG
NT AERODYNAMIC STABILITY
NT AIRCRAFT STABILITY
NT ATTITUDE STABILITY
NT BOUNDARY LAYER STABILITY
NT COMBUSTION STABILITY
NT CONTROL STABILITY
NT DIRECTIONAL STABILITY
NT DRAG
NT DYNAMIC PRESSURE
NT DYNAMIC STABILITY
NT FLAME STABILITY
NT FLOW CHARACTERISTICS
NT FLOW DISTRIBUTION
NT FLOW STABILITY
NT FLOW VELOCITY
NT FREQUENCY STABILITY
NT GYROSCOPIC STABILITY
NT INTERFERENCE DRAG
NT LATERAL STABILITY
NT LIFT
NT LONGITUDINAL STABILITY
NT MAGNETOHYDRODYNAMIC STABILITY
NT MOTION STABILITY
NT PRESSURE DRAG
NT ROTARY STABILITY
NT SATELLITE DRAG
NT SPACECRAFT STABILITY
NT SUPERSONIC DRAG
NT TRANSIENT RESPONSE
NT VISCOUS DRAG
NT WAVE DRAG
NT ZERO LIFT
Evaluation of WES one-dimensional dynamic soil testing procedures
[AD-A130925] 01 p0057 N84-10371
Dynamic pulse buckling, theory and experiment. Handbook
[AD-A130910] 01 p0095 N84-10621
Dynamic analysis of spacecraft trajectory and attitude in an orbital insertion
[INPE-2645-TDL/142] 02 p0185 N84-11203
Hydrogen-air detonations
[DE83-009289] 03 p0350 N84-12278
Maximum likelihood estimation of linear dynamic system parameters
[AR-002-934] 03 p0425 N84-12780
Quasi-steady solar wind dynamics 03 p0474 N84-13120
Theoretical studies of oxygen-iodine laser mechanisms and new laser concepts
[AD-A132374] 04 p0540 N84-13550
Dynamics of a mobile tank partially filled with liquid: Equations of motion and their linearization
[WU-PAPER-174] 05 p0678 N84-14460
Critical dynamics for continuous rapid solidification processing
[AD-A134257] 07 p0974 N84-16313
Numerical solution of a generalized model of weld pool solidification
[NRC/CNR-TT-2076] 07 p1012 N84-16564
Design of helicopter rotor blades for optimum dynamic characteristics
[NASA-CR-175380] 08 p1103 N84-17171
Crossed molecular beam studies of the reactions of oxygen and fluorine atoms
[AD-A135415] 08 p1124 N84-17309

Deterministic chaos in materials exhibiting phase transitions
[AD-A135172] 08 p1158 N84-17537
Dynamic behavior of nonuniform tire/wheel assemblies
[PB84-125541] 08 p1167 N84-17598
Investigation of ice dynamics in the marginal ice zone — Arctic Ocean
[AD-A134599] 08 p1196 N84-17799
Detection of abrupt changes in dynamic systems
[NASA-CR-173217] 08 p1223 N84-17988
The ISPM dust experiment 09 p1262 N84-18239
Structural and dynamic studies of materials possessing high energy content
[AD-A136250] 09 p1278 N84-18343
Nonlinear sloshing analysis of liquid in containers with arbitrary geometries
[NAL-TR-757] 09 p1313 N84-18579
Orbit connections in a parabolic equation
[AD-A135666] 09 p1378 N84-18999
Dynamic applications of piezoelectric crystals. Part 3: Experimental studies 10 p1505 N84-19640
Static and dynamic behavior of mechanical components associated with electrical transmission lines 10 p1505 N84-19644
Instability of circular cylinder arrays in cross flow 10 p1506 N84-19647
The Shock and Vibration Digest, volume 15, no. 12
[AD-A138158] 10 p1506 N84-19652
Vehicle-structure interactions in bridge dynamics 10 p1506 N84-19653
On the modal identification of multiple degree of freedom systems from experimental data 10 p1511 N84-19687
Dynamics of a simple system subjected to random impact 10 p1511 N84-19689
Cooperative pilot-optimal augmentation system synthesis for complex flight vehicles 11 p1605 N84-20511
Hellstat simulation studies
[NASA-CR-166567] 11 p1614 N84-20564
Long-term dynamical stability and transition in a spectral model 12 p1856 N84-22094
Device and method for frictionally testing materials for ignitability
[NASA-CASE-MSC-20622-1] 13 p1937 N84-22596
A study of aeroelastic and structural dynamic effects in multi-rotor systems with application to hybrid heavy lift vehicles
[NASA-CR-173505] 14 p2104 N84-23620
Spacecraft control research at NASA 15 p2266 N84-24604
Critically damped dynamic systems 15 p2313 N84-24879
Investigation of dynamic noise affecting geodynamics information in a tethered subsatellite
[NASA-CR-173558] 15 p2319 N84-24923
Investigation of ice dynamics in the marginal zone
[AD-A139558] 15 p2374 N84-25243
Workshop on Dynamic Fracture held at Pasadena, California on 17-18 February 1983
[AD-A140194] 16 p2466 N84-25806
Spherical wave refraction with short distances of source from interface 17 p2702 N84-27212
Emission effects of memory in rocks 17 p2705 N84-27227
Flight mechanics test with a restricted flying aircraft model in a wind tunnel
[DFVLR-FB-84-13] 18 p2789 N84-27701
Apparatus for and method of compensating dynamic unbalance
[NASA-CASE-GSC-12550-1] 18 p2848 N84-28082
The aerodynamic admittance of model bridges
[NMI-R-176] 18 p2851 N84-28105
The design of a test procedure for the measurement of acoustic damping materials at low stress
[AD-A132701] 18 p2853 N84-28113
On mixed-layer models for the atmospheric boundary layer, appendix G 18 p2884 N84-28302
Kinematic control of robot with degenerate wrist
[NASA-TP-2341] 18 p2923 N84-28539
Grinding kinetics and equilibrium states
[NASA-TM-77430] 19 p3002 N84-29025
Dynamic property studies of Sterling engines
[NASA-TM-77719] 19 p3031 N84-29225
Wind turbine generator interaction with conventional diesel generators on Block Island, Rhode Island. Volume 1: Executive summary
[NASA-CR-168318] 19 p3050 N84-29357
Dynamical properties of disordered systems
[AD-A141597] 19 p3065 N84-29580
On failure modeling
[AD-A141760] 19 p3087 N84-29600
The Motion of Planets and Natural and Artificial Satellites, volume 2 19 p3117 N84-29606
A method of measuring distortion noise in digital audio equipment
[NHK-LABS-NOTE-299] 20 p3177 N84-30174
High-resolution spectroscopy and dynamics of multiphoton processes in atoms and molecules
[AD-A143017] 21 p3359 N84-31303
Dynamic characteristic of intense short microwave propagation in an atmosphere
[DE84-002788] 21 p3387 N84-31496
Oscillatory instability in a 2-fluid Benard problem
[AD-A142792] 21 p3399 N84-31565
The Shock and Vibration Digest, volume 16, no. 7
[AD-A143958] 21 p3418 N84-31679
Literature review of tilting pad and turbulent hydrostatic journal bearings for nuclear main coolant pumps 21 p3418 N84-31680
Interactive finite elements for general engine dynamics analysis 21 p3421 N84-31696
Improved materials for DC dynamic scattering at elevated temperatures
[AD-A143076] 21 p3504 N84-32207
Dynamics of angular movements of a solid supporting a rotating rotor with consideration of energy dissipation
[AD-A143349] 22 p3611 N84-32981
Increasing fusion efficiency in laser welding with dynamic beam focusing 23 p3710 N84-33516
Development of an electrically controllable gas flow valve for use in patient ventilators
[BMFT-FB-T-84-129] 23 p3757 N84-33819
Dynamic characteristics of heat exchanger tubes vibrating in a tube support plate inactive mode
[DE84-014844] 23 p3761 N84-33840

DYNAMIC CONTROL

Practical aspects of digital implementation of control laws 01 p0016 N84-10101
A deployable structure and solar array controls experiment for STEP 08 p1111 N84-17227
Model reference adaptive control of mechanical manipulators 10 p1555 N84-20194
Control of dynamic systems based on graphic information 13 p2029 N84-23159
Design and test of a low-temperature liner driver/rate controller 15 p2347 N84-25063
Processes controlling the dynamic fracture of brittle solids
[AD-P003108] 16 p2467 N84-25813
Control of quadriaxial cardan suspension 17 p2643 N84-26911
Kinematic control of robot with degenerate wrist
[NASA-TP-2341] 18 p2923 N84-28539
Control systems design for linear dynamic systems using simple models: Some case studies. Part 1: The single-input/single-output case
[RR-247-PT-1] 20 p3171 N84-30134
Analysis, modeling and control of dynamical systems
[AD-A143937] 23 p3818 N84-34209
Thirteenth Space Simulation Conference. The Payload: Testing for Success
[NASA-CP-2340] 24 p3861 N84-34468
Analysis and regulation of nonlinear and generalized linear systems
[AD-A144671] 24 p3952 N84-35029

DYNAMIC LOADS

NT AERODYNAMIC LOADS
NT BLAST LOADS
NT CYCLIC LOADS
NT GUST LOADS
NT IMPACT LOADS
NT ROLLING CONTACT LOADS
NT SHOCK LOADS
NT THRUST LOADS
NT TRANSIENT LOADS
NT VIBRATORY LOADS
NT WING LOADING

Fundamental properties of soils for complex dynamic loadings: Dynamic constitutive modeling of sandy soils
[AD-A131284] 02 p0206 N84-11341
Mechanics of fracture under high-rate stress loading
[DE83-013770] 03 p0390 N84-12544
Direct shear failure in reinforced concrete beams under impulsive loading
[AD-A133666] 05 p0693 N84-14551
Dynamic fragmentation of ferroelectric ceramics using the torsional Kolsky bar
[DE84-003726] 09 p1289 N84-18415
Holographic FLI (Fringe Linearization Interferometry) for detection of defects
[AD-A135663] 09 p1318 N84-18612
Transducer for measuring the internal forces in the columns of a frame-wall reinforced concrete structure
[PB84-119494] 09 p1319 N84-18617
Identification of damage in hysteretic structures
[AD-A136342] 09 p1331 N84-18688
Static versus dynamic loads as an influence on bone remodelling
[NASA-CR-173365] 09 p1360 N84-18887
Control of bone remodelling by applied dynamic loads
[NASA-CR-173287] 09 p1361 N84-18889
Determining and modeling the response of piezoresistance transducers to dynamic loading
[AD-A137121] 10 p1498 N84-19788
Nonlinear vibrations of plates: A review 10 p1505 N84-19642
Lateral forces on pump impellers: A literature review 10 p1507 N84-19883
Experimental and analytical investigation of active loads control for aircraft landing gear 10 p1510 N84-19886
Kinematic and dynamic analysis of high-speed intermittent-motion mechanisms
[AD-A137903] 11 p1665 N84-20682
Static and dynamic structural-sensitivity derivative calculations in the finite-element-based Engineering Analysis Language (EAL) system
[NASA-TM-85743] 11 p1666 N84-20660
Stresses in a submarine topography under ocean waves
[DE84-005722] 12 p1863 N84-22139
Study of large viscoplastic strains in cylindrical shells by method of magnetic-pulse loading 13 p1972 N84-22798
On some current problems in experimental fracture dynamics
[AD-P003102] 16 p2466 N84-25807
Path-independent integrals in dynamic fracture mechanics
[AD-P003111] 16 p2468 N84-25816
Dynamic kinking and bifurcation of cracks in plane strain
[AD-P003113] 16 p2468 N84-25818
Dynamic, steady-state crack propagation in linear isotropic viscoelastic material
[AD-P003114] 16 p2468 N84-25819
A dynamic fracture assessment of impact damage in structural ceramics 16 p2469 N84-25826
Dynamics of early planetary gear trains
[NASA-CR-3793] 16 p2498 N84-26027
Orbiting dynamic compression laboratory
[NASA-CR-173704] 18 p2796 N84-27755
Evaluation of two polyimides and of an improved liner retention design for self-lubricating bushings
[NASA-TM-83719] 18 p2817 N84-27887
Concrete behavior under dynamic tensile-compressive load
[AD-A141735] 19 p3036 N84-29255
Effect of vortex generators on the power conversion performance and structural dynamic loads of the Mod-2 wind turbine
[NASA-TM-83660] 19 p3049 N84-29347
Holographic FLI for detection of defects
[AD-A142733] 20 p3189 N84-30258

DYNAMIC MODELS

Modeling and simulation techniques 01 p0015 N84-10096
Dynamic model for an induction motor and its verification
[DE83-013738] 01 p0074 N84-10484
Horizontal energy propagation and barotropic instability in a quasi-linear model of the atmosphere 02 p0247 N84-11614
Systems dynamics: Recent technical advances and current projects
[INPE-2846-PRE/388] 02 p0286 N84-11874
Dynamics of Saturn's rings 02 p0307 N84-12017
The vortex skeleton model for three-dimensional steady flows 03 p0321 N84-12101
Dynamical evolution of substructure in molecular clouds 03 p0462 N84-13043
Theory of hydromagnetic turbulence 03 p0467 N84-13077
Recent Japanese progress in fire modeling 04 p0511 N84-13353
Recent US progress in fire growth modeling 04 p0511 N84-13354
Crew station evaluation in a dynamic flight simulation facility 06 p0774 N84-15069
Improved dynamic models for air combat analysis
[TAE-483] 06 p0905 N84-15876
Mathematical modeling of the aerodynamic characteristics in flight dynamics
[NASA-TM-85880] 08 p1098 N84-17141
Shock compaction of molybdenum powder
[NASA-CR-173154] 08 p1133 N84-17369
Photoelastic analysis of direct shear tests for granular materials
[BLL-M-28752-(5828.4)] 09 p1328 N84-18671
Adjoint sensitivity theory for steady-state ground-water flow
[DE84-003335] 09 p1337 N84-18732
Radiation for box budgets — atmospheric heat budget 10 p1535 N84-20058

Verification of the radiation budget in numerical models 10 p1535 N84-20059
Report by the Chairman of the Fluid Dynamics Panel 12 p1763 N84-21499
Precise orbit determination for ERS-1 [ESA-CR(P)-1842] 12 p1776 N84-21591
A compressible Navier-Stokes code for turbulent flow modeling [NASA-TM-85899] 12 p1815 N84-21833
Predictability experiments using a low order empirically corrected dynamical model 12 p1854 N84-22077
Design for and efficient dynamic climate model with realistic geography 12 p1856 N84-22092
Long-term dynamical stability and transition in a spectral model 12 p1856 N84-22094
Diagnosis of the GLAS climate model's stationary planetary waves using a linearized steady state model 12 p1856 N84-22095
Numerical simulation of the tip vortex off a low-aspect-ratio wing at transonic speed [NASA-TM-85932] 13 p1926 N84-22535
CONSERVB: A numerical method to compute soil water content and temperature profiles under a bare surface [E84-10113] 13 p2005 N84-23006
Disturbance minimization techniques for linear, time-invariant dynamical systems [AD-A136915] 13 p2033 N84-23185
Bifurcation of map resonance 1 : 4 [MC-TW-245/83] 13 p2035 N84-23204
Geologic investigations of outer planets satellites [NASA-CR-173497] 13 p2091 N84-23544
Constitutive models for static and dynamic response of geotechnical materials [AD-A139293] 14 p2134 N84-23790
Microprocessor based implementation of attitude and shape control of large space structures 14 p2245 N84-24482
Scaling and modeling of three-dimensional, end-wall, turbulent boundary layers [NASA-CR-3792] 16 p2485 N84-25941
A review of the basic concepts of dense gas dispersion with special regard to modelling of heat transfer [QUEL-1512/84] 16 p2487 N84-25952
Magnetic field draping against the dayside magnetopause 16 p2573 N84-26514
Descriptive statistical model of earthquake focal radiation and its application in evaluating short-period strong movement 17 p2700 N84-27200
Movement mechanism of solitary synoptic eddies 17 p2707 N84-27239
Models for the evaluation of work loads of crews during long distance flight 17 p2744 N84-27422
A hybrid N-body/Fokker-Planck stellar dynamical code with application to late core collapse in globular clusters 17 p2775 N84-27620
Modeling kinetics of aerodisperse phase in ocean surface layer 18 p2859 N84-28153
An on-line equivalent system identification scheme for adaptive control 21 p3343 N84-31213
Attitude dynamics of the Galileo spacecraft 21 p3352 N84-31282
A theoretical and experimental study of turbulent evaporating sprays [NASA-CR-174760] 22 p3536 N84-32390
Linearized dynamical model for the NASA/IEEE SCOLE configuration [NASA-CR-172394] 22 p3542 N84-32423
Relative motion characteristics of 2 near-Earth Satellites [NASA-CR-173667] 22 p3678 N84-33316

DYNAMIC PRESSURE

A technique for dynamically calibrating pressure transducers at cryogenic temperatures [NASA-TM-85895] 02 p0222 N84-11458
Application of the small body pressure transducer [AD-A131733] 03 p0377 N84-12454
Real-time pilot guidance system for improved flight test manuvers [NASA-TM-84922] 07 p0952 N84-16176
The infinite line pressure probe [NASA-TM-83562] 10 p1498 N84-19787
Application of the small body pressure transducer [AD-P002687] 11 p1659 N84-20822
A computational method for predicting the effects of varying Reynolds number and dynamic pressure on flexible wings at transonic speeds 12 p1764 N84-21508
Air blast loadings on building elements from detonating 8.4 Kg Comp high explosive charges [FOA-C-20522-D4] 15 p2349 N84-25102
Blast loadings of emergency exits for air-raid shelters type E [FOA-C-20530-D4(D6)] 15 p2350 N84-25103
Flow pattern in an indoor rocket test stand during static firing of solid propellant rocket motors [PML-1983-40] 17 p2614 N84-26731
Experimental study of behavior of cylindrical shells with lumped masses under dynamic external pressure 17 p2650 N84-26947

DYNAMIC PROGRAMMING

Dynamic programming algorithms and analyses for nonserial networks, part 1 [AD-A130885] 01 p0122 N84-10795
Dynamic programming algorithm and analyses for nonserial networks, part 2 [AD-A130905] 01 p0123 N84-10796
Theoretical and software considerations for nonlinear dynamic analysis [NASA-CR-174504] 06 p0858 N84-15589
Application of the Gibbs distribution to image segmentation [AD-A133406] 06 p0901 N84-15850
Some considerations on boundary integral equation method: A dynamic program for two-dimensional fracture mechanics problems [OUEL-1468/83] 07 p1017 N84-16600
Abstract type oriented dynamic vertical migration [AD-A135840] 09 p1367 N84-18926
Report on an information trip to Holland, August - September 1983 — conference, decision making [FOA-C-59006-H2] 10 p1592 N84-20431
Differential games, optimal control and directional derivatives of viscosity solutions of Bellman's and Isaacs' equations [AD-A137939] 11 p1718 N84-21209
Space and time analysis in dynamic programming algorithms [AD-P002963] 14 p2200 N84-24203
Optimization of query processing in distributed databases systems 16 p2567 N84-26474
Dynamic module replacement in a distributed programming system [AD-A140619] 17 p2752 N84-27469
Nonnegative matrices in dynamic programming [MATH-CENTRE-TRACTS-167] 21 p3475 N84-32028
Dynamic programming and transitive closure on linear pipelines [AD-A143527] 22 p3640 N84-33079

DYNAMIC PROPERTIES

U DYNAMIC CHARACTERISTICS

DYNAMIC RESPONSE

NT TRANSIENT RESPONSE
Dynamic effects of controls 01 p0013 N84-10086
Direct digital design via pole placement techniques 01 p0015 N84-10099
Advanced experimental techniques in crack tip analysis [AD-A130719] 01 p0095 N84-10618
Theory of viscoplastic shells for dynamic response [AD-A131272] 01 p0096 N84-10624
Lateral runway approach guidance using Loran-C 02 p0168 N84-11105
Dynamic heterogeneous response of aluminum and copper to stress waves [DE83-015229] 02 p0232 N84-11522
Numerical modeling of dynamic material response [DE83-016233] 02 p0232 N84-11524
MAZE: An input generator for DYNA2D and NIKE2D [DE83-016415] 02 p0274 N84-11795
Chaos in semiclassical model of multiphoton excitation of spherical top molecules [DE83-014201] 02 p0289 N84-11897
Dynamics of Saturn's rings 02 p0307 N84-12017
Alternate T-38 transparency development. Part 4: Parametric studies [AD-A131904] 03 p0331 N84-12159
Calculation of forced response to base excitation using experimentally derived modal participation factors 03 p0340 N84-12205
System identification of structures with joint rotation 03 p0358 N84-12330
A pressure-shear experiment for studying the dynamic plastic responses of metals at shear strain rates of 10 to the 5th power s(-1) 03 p0387 N84-12519
Nonlinear dynamics and control of a vibrating rectangular plate [NASA-CR-172215] 03 p0388 N84-12528
Flight test and analyses of the B-1 structural mode control system at supersonic flight conditions [NASA-CR-170405] 04 p0487 N84-13197
Nonlinear oscillations of a fluttering panel in a transonic airstream [AD-A133918] 05 p0627 N84-14124
Bending of beams subjected to transverse impacts [MRL-R-886] 05 p0692 N84-14544
Electrofluidic angular rate sensor for ejection seat thrust vector control [AD-A133233] 06 p0784 N84-15137
Multishaker modal testing [NASA-CR-170952] 06 p0847 N84-15521
Eleventh NASTRAN User's Colloquium [NASA-CP-2284] 06 p0858 N84-15590
An alternative method of analysis for base accelerated dynamic response in NASTRAN 06 p0859 N84-15598
Finite element analysis of fluid-filled elastic piping systems 06 p0859 N84-15600
Finite element analysis of a deployable space structure 06 p0932 N84-16056
Measurement of unsteady aerodynamic pressures [DFVLR-MITT-83-08] 07 p0949 N84-16155
Dynamic behavior of spiral-groove and Rayleigh-Step self-acting face seals [NASA-TP-2266] 07 p0953 N84-16181
Frequency characteristics of spring constants of a suspended transmission line 07 p0982 N84-16361
Dynamics of tubes in fluid with tube-baffle interaction — heat exchanger tubes [DE84-001452] 07 p1003 N84-16508
Self-shadowing of orbiting trusses [NASA-CR-173215] 07 p1012 N84-16565
Photovoltaic concentrator pointing dynamics and plasma interaction study 08 p1111 N84-17224
Validation methods for mathematical models of flexible satellite dynamics [ESA-CR(P)-1794] 08 p1113 N84-17241
Heron, volume 28, no. 1, 1983. Dynamic elasto-plastic model for reinforced concrete members [PB84-109057] 08 p1172 N84-17635
Least favorable response of inelastic structures [AD-A136289] 09 p1330 N84-18687
Identification of damage in hysteretic structures [AD-A136342] 09 p1331 N84-18688
Dynamic characteristics of a jet engine test facility air supply [AD-A136910] 10 p1433 N84-19365
Fracture, longevity (fatigue), dynamics, and aeroelasticity of composite structures [AD-A137047] 10 p1452 N84-19486
The Shock and Vibration Digest, volume 16, no. 1 [AD-A137502] 10 p1507 N84-19862
Eigenvalue methods for vibration analysis 2 10 p1507 N84-19865
The Shock and Vibration Bulletin. Part 3: Vehicle dynamics and vibration: Test and criteria [AD-A134454] 10 p1511 N84-19893
Researching the man-machine system as a function of soil-environment system 10 p1511 N84-19894
Dynamic behaviour of a satellite antenna structure in random vibration environment 10 p1512 N84-19900
Testing for severe aerodynamically induced vibration environments 10 p1513 N84-19905
Evaluation of modal testing techniques for spacecraft structures 10 p1513 N84-19906
A free-form modal survey suspension system for large test articles 10 p1513 N84-19907
Evaluation of NASA structural analysis (NASTRAN) to predict the dynamic response of reinforced concrete [AD-A137244] 10 p1517 N84-19929
Mathematical models for damageable structures [AD-A136574] 10 p1572 N84-20296
Eigenspace design techniques for active flutter suppression 11 p1617 N84-20581
Pilot modeling, modal analysis, and control of large flexible aircraft 11 p1617 N84-20584
Calibration of vibration pickups at high frequencies [AD-P002691] 11 p1659 N84-20826
Kinematic and dynamic analysis of high-speed intermittent-motion mechanisms [AD-A137903] 11 p1665 N84-20862
Optimization for vibration isolation [AD-A137895] 11 p1668 N84-20886
Nonlinear trapped electron response for drift wave turbulence in Tokamaks [DE84-005385] 11 p1737 N84-21335
On the stability of flight vehicles in the low Reynolds number non-linear regime [AD-A138379] 12 p1773 N84-21559
Effect of pressure on the static and dynamic acoustic properties of porous rubber [AD-A138744] 13 p1963 N84-22756
CASE (Computer-Aided Structural Engineering) study of 6 major general-purpose finite element programs [AD-A139065] 13 p2001 N84-22986
Underwater shock-induced responses of submerged cylindrical structures [AD-A139072] 13 p2002 N84-22987
Fundamental properties of soils for complex dynamic loadings; dynamic constitutive model fundamentals [AD-A139358] 14 p2134 N84-23791
Dynamic response of concrete and concrete structures [AD-A139294] 14 p2158 N84-23928
Vehicle dynamic analysis with flexible components [AD-P002939] 14 p2197 N84-24179

Flutter and forced response of mistuned rotors using standing wave analysis
[NASA-CR-173555] 15 p2262 N84-24586
Pretest plan for a quarter scale AFT segment of the SRB filament wound case in the NSWC hydroballistics facility --- space shuttle boosters
[NASA-CR-171028] 15 p2281 N84-24699
Short pulse fracture mechanics
[AD-P003105] 16 p2467 N84-25810
Cumulative creep damage for polycarbonate and polysulfone
[NASA-CR-173433] 16 p2471 N84-25840
A modified modal method for nonlinear dynamic analysis of structures 16 p2501 N84-26052
Revisions to the PETROS 4 shell response code
[AD-A140268] 16 p2502 N84-26059
Boundary condition and strain-rate effects on the response of blast-loaded beams
[AD-A140428] 16 p2502 N84-26061
Dynamic response of rotating beams with nonconstant angular velocity 16 p2503 N84-26067
Lower mantle heterogeneity, dynamic topography and the geoid
[NASA-CR-173621] 16 p2521 N84-26184
Validation of the MAGNA (Materially and Geometrically Nonlinear Analysis) computer program for nonlinear finite element analysis of aircraft transparency bird impact
[AD-P003229] 17 p2596 N84-26642
MAGNA (Materially and Geometrically Nonlinear Analysis) computer simulation of bird impact on the F-15 aircraft canopy
[AD-P003230] 17 p2597 N84-26643
The nonlinear viscoelastic response of resin matrix composite laminates
[NASA-CR-3772] 17 p2617 N84-26750
Computer-aided optimal design of constrained dynamic systems 17 p2675 N84-27040
A new second order accurate finite difference method for dynamic response of elastic-plastic finite deformation problems 17 p2678 N84-27056
Stress analysis of wire hoist rope
[PB84-172618] 17 p2681 N84-27075
Flight mechanics test with a restricted flying aircraft model in a wind tunnel
[DFVLR-FB-84-13] 18 p2789 N84-27701
Theoretical and experimental results of dynamic behavior of periodically stiffened cylindrical shell 18 p2794 N84-27731
Gravitational antenna with non tuned resonant transducer
[IFSI-84-1] 18 p2831 N84-27972
Evaluation of aerodynamic admittance of a model bridge oscillating with vertical motion
[NMI-R-175] 18 p2851 N84-28104
The aerodynamic admittance of model bridges
[NMI-R-176] 18 p2851 N84-28105
Shell shock structural code, fourth edition
[DE84-009549] 18 p2853 N84-28118
Current status of an organic Rankine cycle engine development program 18 p2872 N84-28230
Dynamic behavior of wind turbines
[NLR-MP-83047-U] 18 p2876 N84-28263
A model of rotor blade first natural flapping response for up to three/rev excitations
[AD-A141725] 19 p2963 N84-28782
Concrete behavior under dynamic tensile-compressive load
[AD-A141735] 19 p3036 N84-29255
Multi-shaker random mode testing
[AD-A142094] 19 p3069 N84-29608
Seismic response for multicomponent earthquakes
[PB84-193747] 20 p3204 N84-30354
Testament of general boundary conditions and point-wise state variable constraints in optimum design for static and dynamic response
[PB84-192749] 20 p3204 N84-30356
System identification of structures with joint rotation
[PB84-192210] 20 p3205 N84-30357
Bond graph time simulations using extracted modal parameters from the Nova spaceframe
[DE84-010918] 20 p3273 N84-30779
Fuselage torsion of a CT4 aircraft
[AD-A142753] 21 p3328 N84-31114
Radial SI latches vibration test data review
[NASA-TM-86454] 21 p3412 N84-31638
Critical speed of centrifugal pumps 21 p3418 N84-31677
Direct generation of seismic floor response spectra for classically and nonclassically damped structures
[PB84-191675] 21 p3445 N84-31860
A two-fluid instability
[DE84-012899] 22 p3595 N84-32764
The development of methods to predict both the dynamic and the pseudo-static response of secondary structures subjected to seismic excitations
[DE84-010284] 22 p3612 N84-32884
EURDYN: Computer programs for the nonlinear transient analysis of structures submitted to dynamic loading. EURDYN (release 3) users' manual
[DE84-700988] 24 p3912 N84-34777
Investigation of multiple controller system efficiency as applied to the CSDL model
[AD-A144597] 24 p3949 N84-35002

DYNAMIC STABILITY
NT AERODYNAMIC STABILITY
NT AIRCRAFT STABILITY
NT ATTITUDE STABILITY
NT BOUNDARY LAYER STABILITY
NT COMBUSTION STABILITY
NT CONTROL STABILITY
NT DIRECTIONAL STABILITY
NT FLAME STABILITY
NT FLOW STABILITY
NT FREQUENCY STABILITY
NT GYROSCOPIC STABILITY
NT LATERAL STABILITY
NT LONGITUDINAL STABILITY
NT MAGNETOHYDRODYNAMIC STABILITY
NT MOTION STABILITY
NT ROTARY STABILITY
NT SPACECRAFT STABILITY
Mean-square optimal, full-order compensation of structural systems with uncertain parameters
[AD-A131276] 02 p0281 N84-11841
Experimental determination of gap flow-conditioned forces at turbine stages and their effect on the running stability of simple rotors
[NASA-TM-77293] 06 p0852 N84-15553
Hover test of a full-scale hingeless helicopter rotor: Aeroelastic stability, performance and loads data --- wind tunnel tests
[NASA-TM-85892] 09 p1255 N84-18190
ACOSS eleven (Active Control Of Space Structures), volume 1
[AD-A135675] 09 p1273 N84-18311
High pressure oxygen turbopump bearing cage stability analyses --- space shuttle main engine
[NASA-CR-170991] 10 p1502 N84-19815
Braking-turning-maneuvering stability of heavy transporters 10 p1512 N84-19897
Recent developments and future directions in dynamic stability research at NAE, Ottawa 14 p2097 N84-23582
Flight data on liquid-filled shell for spin-up instabilities
[AD-A139136] 14 p2101 N84-23610
Dynamic stability of high order linear systems 15 p2312 N84-24874
Conservation laws for some separable gyrocopic dynamical systems 15 p2313 N84-24876
Hypersonic static and dynamic stability. Part 3: Experimental techniques, experimental results and viscous effects 16 p2442 N84-25665
Processes controlling the dynamic fracture of brittle solids
[AD-P003108] 16 p2467 N84-25813
On the stick-free longitudinal dynamic stability of a general aviation aircraft equipped with an all-movable horizontal tail 18 p2797 N84-27748
Dynamic behavior of wind turbines
[NLR-MP-83047-U] 18 p2876 N84-28263
Adaptive decentralized control
[AD-A142160] 19 p3061 N84-29549
Boundary-layer linear stability theory 23 p3748 N84-33759

DYNAMIC STRUCTURAL ANALYSIS
Resin selection criteria for tough composite structures
[NASA-TM-83449] 01 p0048 N84-10310
Element Choices for Explicit and Implicit Nonlinear Finite-Element Computation. The Ispra Courses on Structural Dynamics: Lecture notes
[DE83-013041] 01 p0134 N84-10880
Review of aircraft crash structural response research
[AD-A131696] 03 p0331 N84-12160
Calculation of forced response to base excitation using experimentally derived modal participation factors 03 p0340 N84-12205
System identification of structures with joint rotation 03 p0358 N84-12330
Vertical drop test of a transport fuselage center section including the wheel wells
[NASA-TM-85706] 03 p0388 N84-12531
A comparison of finite-element predictions and experimental data for the forced response of the DOE 100 kW vertical-axis wind turbine
[DE83-012624] 03 p0389 N84-12537
Prediction of dynamic effects due to vehicles crossing military bridges
[ISVR-TR-120] 03 p0391 N84-12548
First passage times in stochastic differential equations of mathematical physics and engineering
[AD-A131705] 03 p0417 N84-12728
La Recherche Aerospatiale, Bimonthly Bulletin, no. 1983-1/212, January-February 1983
[ESA-TT-814] 03 p0429 N84-12810
Development of the basic methods needed to predict the aeroelastic behavior of helicopters 03 p0429 N84-12811
Present trends in structural analysis at ONERA 03 p0429 N84-12812
Blade loss transient dynamics analysis with flexible bladed disk
[NASA-CR-168176] 04 p0486 N84-13193
Analysis and control of quasi distributed parameter systems 04 p0547 N84-13603
The emergence and propagation of a phase boundary in an elastic bar
[AD-A132275] 04 p0549 N84-13616
Research on aero-thermodynamic distortion induced structural dynamic response of multi-stage compressor blading
[AD-A133853] 05 p0632 N84-14151
The emergence and propagation of a phase boundary in an elastic bar 05 p0690 N84-14535
An assessment of some methods for calculating wave loading
[NMI-R-162] 05 p0694 N84-14555
Wind tunnel tests on a model of a semisubmersible platform and comparison of the results with full-scale data
[NLR-MP-82014-U] 06 p0780 N84-15113
Study on damping representation related to spacecraft structural design
[EMSB-18/83] 06 p0795 N84-15182
Preflight transient dynamic analyses of B-52 aircraft carrying Space Shuttle solid rocket booster drop-test vehicle
[NASA-TM-84925] 06 p0858 N84-15588
Stiffness properties for dynamic modeling of composite graphite-epoxy cylindrical orthotropic shells 06 p0932 N84-16054
Finite element analysis of a deployable space structure 06 p0932 N84-16056
On differential sensitivity analysis of structural systems
[REPT-29.4.155/NT] 07 p1017 N84-16596
Computer programs for seismic analysis of piping systems with special reference to the power piping code B31.1 --- pressure vessels
[CRIF-MT-158] 07 p1017 N84-16601
The STEP/STACBEAM experiment technology development for very large solar array deployers 08 p1110 N84-17220
General requirements for Shuttle flight experiments 08 p1110 N84-17221
Validation methods for mathematical models of flexible satellite dynamics
[ESA-CR(P)-1794] 08 p1113 N84-17241
West breakwater-Sines (Portugal): New aspects of armor units 08 p1195 N84-17789
Scale model testing for control system parameters of large structures
[AD-A135652] 09 p1273 N84-18313
Dynamic analysis of a Bearing and Power Transfer Assembly (BAPTA) solar generator system 09 p1294 N84-18456
Least favorable response of inelastic structures
[AD-A136289] 09 p1330 N84-18687
Inelastic deformation of metals and structures under dynamic and quasi-static cyclic loading
[AD-A136022] 09 p1332 N84-18700
Efficient finite element methods for transient nonlinear analysis of shells
[AD-A136044] 09 p1333 N84-18701
The experimental/analytical determination of the real normal mode parameters of a structure with limited accessibility
[DFVLR-FB-83-26] 09 p1334 N84-18711
The Shock and Vibration Bulletin. Part 1: Welcome, keynote address, invited papers, pyrotechnic shock, and shock testing and analysis
[AD-A134452] 10 p1507 N84-19666
The evolution of spectral techniques in Navy shock design 10 p1508 N84-19671
Experimental validation of the component synthesis method for predicting vibration of liquid-filled piping 10 p1510 N84-19682
On the modal identification of multiple degree of freedom systems from experimental data 10 p1511 N84-19687
The influence of gyroscopic forces on the dynamic behavior and flutter of rotating blades
[NASA-CR-175444] 11 p1608 N84-20524
Analysis of large space structures 11 p1623 N84-20621
Environmental effects on the dynamics and control of an orbiting large flexible antenna system
[NASA-CR-175448] 11 p1623 N84-20627

Derivation and combination of impedance matrices for flexible satellites
[ESA-STR-209] 12 p1778 N84-21604
Study of analysis methods concerning launch vehicle and spacecraft structural interaction
[ED-80-295] 12 p1778 N84-21605
The solution of the dynamic problem of the periodic structures by cyclosymmetric technique — large space structures 12 p1780 N84-21612
Simplified models and computational schemes of the aerodynamic load — large space structures
12 p1780 N84-21614
Finite element formulations for tensioned members — large space structures 12 p1780 N84-21615
Assessment of the existing ground test technology and confronting with the Large Space Structures (LSS) requirements. Experimental techniques in structural analysis 12 p1781 N84-21621
Survey of NASA research on crash dynamics
[NASA-TP-2298] 12 p1826 N84-21901
Feasibility anlysis of novel technological principles of producing multicomponent mechanisms
13 p1968 N84-22773
A study of aeroelastic and structural dynamic effects in multi-rotor systems with application to hybrid heavy lift vehicles
[NASA-CR-173505] 14 p2104 N84-23620
Lewis Research Center spin rig and its use in vibration analysis of rotating systems
[NASA-TP-2304] 15 p2260 N84-24578
Automated dynamic analysis of mechanisms with flexible links 15 p2311 N84-24870
Response of structural panels to air blast
15 p2316 N84-24902
Design and test of a low-temperature liner driver/rate controller 15 p2347 N84-25063
Evolution from a hinge actuator mechanism to an antenna deployment mechanism for use on the European large communications satellite (L-SAT/OLYMPUS)
15 p2347 N84-25084
The design and development of two-failure tolerant mechanisms for the Spaceborne Imaging Radar (SIR-B) antenna 15 p2348 N84-25087
Reanalysis of mechanical structures
15 p2349 N84-25099
Review of preliminary analysis techniques for tension structures
[AD-A139853] 15 p2350 N84-25110
Interactive creations and modification of chinese characters
[ISD-299] 15 p2417 N84-25513
Water impact test of aft skirt end ring, and mid ring segments of the Space Shuttle Solid Rocket Booster
[NASA-CR-171027] 16 p2457 N84-25752
Dynamic crack growth in polymers
[AD-P003106] 16 p2467 N84-25811
Fan blade shake test results for the 40- by 80-foot/80- by 120-foot wind tunnel
[NASA-TM-85859] 17 p2618 N84-26753
The stability and dynamics of elastic structures and fluid flows
[AD-A141206] 18 p2837 N84-28006
An investigation into the probabilistic combination of quasi-static and random accelerations
[NASA-TM-82584] 18 p2852 N84-28111
VIBRA: An interactive computer program for steady-state vibration response analysis of linear damped structures
[NASA-TM-85789] 18 p2852 N84-28112
The design of a test procedure for the measurement of acoustic damping materials at low stress
[AD-A132701] 18 p2853 N84-28113
Shell shock structural code, fourth edition
[DE84-009549] 18 p2853 N84-28118
The inclusion of flexible joints in the stiffness method
[TT-8401] 18 p2854 N84-28122
The dynamics and control of large flexible space structures, part 7
[NASA-CR-173781] 19 p2981 N84-28892
Advanced composite stabilizer for Boeing 737 aircraft
[NASA-CR-157639] 19 p2985 N84-28915
SPAR improved structure-fluid dynamic analysis capability, phase 2
[NASA-CR-171078] 19 p3021 N84-29153
Structures and Dynamics Division research and technology plans for FY 1984 and accomplishments for FY 1982
[NASA-TM-85826] 19 p3034 N84-29245
Fragmentation under impulsive stress loading
[DE84-006341] 19 p3037 N84-29263
Effect of vortex generators on the power conversion performance and structural dynamic loads of the Mod-2 wind turbine
[NASA-TM-83660] 19 p3049 N84-29347
A numerical scheme for the identification of hybrid systems describing the vibration of flexible beams with tip bodies
[NASA-CR-172368] 19 p3095 N84-29655
Durability methods development, volume 7
[AD-A142400] 20 p3128 N84-29865
Dynamic synthesis and evaluation of spacecraft structures
[ESA-STR-208] 20 p3135 N84-29904
Stability of tubes conveying fluid
[DE84-010573] 20 p3185 N84-30240
Instrumenting and interpreting the time-varying response of structural systems
[DE84-009057] 20 p3203 N84-30346
Interactive computer analysis methods for predicting the inelastic cyclic behaviour of structural sections
[PB84-192012] 20 p3205 N84-30358
Active controls: A look at analytical methods and associated tools
[NASA-TM-86269] 21 p3419 N84-31684
Interactive finite elements for general engine dynamics analysis 21 p3421 N84-31698
NASTRAN-based computer program for structural dynamic analysis of horizontal axis wind turbine
[DE84-011257] 21 p3423 N84-31713
Simplified approach to two-dimensional cyclic plasticity problems
[CETIM-11-B-110] 21 p3424 N84-31718
State of techniques for crackling varnishes and problems posed by their application
[CETIM-1.5C.23.1] 21 p3424 N84-31723
Experience with transonic unsteady aerodynamic calculations
[NASA-TM-86278] 22 p3530 N84-32353
Structural performance of orthogonal tetrahedral truss Space-Station configurations
[NASA-TM-86260] 22 p3542 N84-32422
Application of elastic wave scattering theory to the detection and characterization of flaws in structural materials
[DE84-013729] 22 p3607 N84-32852
Analysis of parametrically excited large vibration systems
[AD-A143263] 22 p3611 N84-32879
Collapse of long stiffened circular cylinders under combined axial bending and pressure loading
23 p3759 N84-33825
Extension of constrained incremental Newton Raphson methodologies to handling generalized thermomechanical loading fields 23 p3760 N84-33829
Flexural support member having a high ratio of lateral-to-axial stiffness
[DE84-011104] 23 p3761 N84-33839
An assembly language program for calculating random decrement signatures
[AD-A143908] 23 p3815 N84-34195
Ground vibration test of F-16 airplane with initial decoupler pylon
[NASA-TM-86259] 24 p3854 N84-34439

DYNAMIC TESTS
The MSAD actuator solenoid, performance evaluation and modification
[DE83-011216] 01 p0074 N84-10483
Portable dynamic pressure generator for static and dynamic calibration of in situ pressure transducers
[NASA-TM-85687] 01 p0083 N84-10538
A dynamic approach to military avionics systems testing 06 p0774 N84-15075
Dynamic compressive strain rate tests on 2 types of beryllium
[DE84-006126] 11 p1635 N84-20691
Wind Tunnels and Testing Techniques
[AGARD-CP-348] 14 p2094 N84-23564
Radial SI latches vibration test data review
[NASA-TM-86454] 21 p3412 N84-31638
A theory of error-based testing
[AD-A143533] 22 p3640 N84-33081
Thirteenth Space Simulation Conference. The Payload: Testing for Success
[NASA-CP-2340] 24 p3861 N84-34468
Main characteristics of the Large Space Simulation (LSS) 24 p3862 N84-34472

DYNAMICS
Dynamic analysis of the fluidyne
[DE83-017283] 03 p0384 N84-12500
Proc. of a Course of Lectures and Computer Workshops on Computer Simulation of Multi-Phase Flows
[CFD/83/4] 18 p2838 N84-28012

DYNAMICS EXPLORER SATELLITES
NT DYNAMICS EXPLORER 1 SATELLITE
NT DYNAMICS EXPLORER 2 SATELLITE
Connection between the magnetosphere and ionosphere 23 p3837 N84-34339

DYNAMICS EXPLORER 1 SATELLITE
A potential control method for thermal plasma measurements on the DE-1 spacecraft
06 p1119 N84-17276

DYNAMICS EXPLORER 2 SATELLITE
Orbit determination and prediction study for Dynamic Explorer 2
[NASA-TM-85098] 02 p0183 N84-11192

DYNAMO THEORY
Determining the alpha dynamo parameter in incompressible homogeneous magnetohydrodynamic turbulence
[NASA-TM-85110] 02 p0295 N84-11936
Periods of activity cycles in late-type stars
[NASA-TM-77297] 07 p1091 N84-17094
Stable Alfven wave dynamo action in the reversed field pinch
[DE84-004986] 10 p1586 N84-20397
Calm ionospheric dynamo. Part 1: Simulations carried out in 1981
[CRPE-NT-112-PT-1] 13 p2012 N84-23055
MHD dynamo action in space plasmas
[TRITA-EPP-84-06] 18 p2934 N84-28610
Magnetic activity in lower main sequence stars
24 p3975 N84-35175

DYNAMOMETERS
NAHBE (Naval Academy Heat Balanced Engine) m151 retrofit evaluation
[AD-A133475] 06 p0853 N84-15559
Measuring accurately single-phase sinusoidal and non-sinusoidal power
[AD-A136408] 09 p1307 N84-18541
Orientation of ergonomic aspects of the Universal Dynamometer Device — vehicle testing
[IZF-1983-25] 20 p3199 N84-30315

DYNAMOS
U ROTATING GENERATORS

E

E LAYERS
U E REGION

E REGION
NT SPORADIC E LAYER
Occurrences of the polar Slant E Condition (SEC) at Narssarssuaq, Godhavn, Thule, 1981
[ISSN-0108-2922] 02 p0251 N84-11642
A laboratory investigation of the high-frequency Farley-Buneman instability
[NASA-CR-173435] 16 p2525 N84-26215
HF omnidirectional spectral CW auroral radar (HF-OSCAR) at very high latitude. Part 1: Technique
[DMI-GEOPHYS-PAPERS-R-67]
19 p3010 N84-29079
High-latitude ionospheric irregularities
[AD-A142648] 20 p3241 N84-30573
Influence of magnetic shear on the collisional current driven ion cyclotron instability
[AD-A143391] 22 p3659 N84-33191

E-3A AIRCRAFT
C3I system modification and EMC (electromagnetic compatibility) methodology, volume 1
[AD-A141420] 19 p3004 N84-29041

EAR
NT COCHLEA
NT SEMICIRCULAR CANALS
NT VESTIBULES
An age comparison of the vestibulo-ocular counterroll reflex
[AD-A132064] 03 p0415 N84-12716

EAR PROTECTORS
Impact response of an energy absorbing earcup
[AD-A134828] 08 p1205 N84-17860
Comparison of real-ear attenuation characteristics of the standard SPH-4 earcup and a prototype crushable earcup
[AD-A138042] 12 p1868 N84-22171
Active noise reduction
[AD-A139741] 15 p2404 N84-25428
Frequency selected and amplitude limited personal noise protectors
[BMFT-FB-HA-84-016] 18 p2915 N84-28488
Feasibility study on a new type of personal noise protection
[BMFT-FB-HA-84-017] 18 p2915 N84-28489
Energy-absorbing earcup engineering feasibility evaluation
[AD-A144179] 24 p3938 N84-34924

EARLY STARS
NT PROTOSTARS
NT T TAURI STARS
The winds and coronae of early-type stars
03 p0469 N84-13086
A study of the empirical mass-luminosity diagram for early type stars 04 p0618 N84-14075

Line profile variability in winds of OB stars
06 p0936 N84-16085
The life cycle of stars
10 p1594 N84-20450
A spectrophotometric study of temporal variations in the optical spectrum of SS 433
21 p3522 N84-32312
The stellar wind enigma in early type stars: The high-velocity, narrow absorption lines in the UV
24 p3971 N84-35141
Far UV excess and gas content of SO galaxies
24 p3971 N84-35144

EARLY WARNING SYSTEMS
National Hurricane Operations Plan
[PB84-198837] 21 p3450 N84-31888

EARPHONES
Technique for measuring the sound pressure levels under flying helmets and headsets
[IZF-1982-39] 02 p0269 N84-11765
Active sound reduction systems — headsets
[IZF-1983-8] 12 p1900 N84-22371

EARTH (PLANET)
Physical and computer modeling of military earth grounding practices in a HEMP (High-Altitude Electromagnetic Pulse) environment
[AD-A130141] 01 p0070 N84-10454
An analysis of acoustic and seismic wave resonances
04 p0561 N84-13701
On the analytical form of the Earth's magnetic attraction expressed as a function of time
[NASA-TM-77344] 05 p0702 N84-14609
Least square approximation by linear combinations of multipoles
[AD-A134069] 05 p0741 N84-14867
Constraints on the Earth's anelastic and aspherical structure from antipodal surface waves
06 p0876 N84-15700
On the relationship between collisionless shock structure and energetic particle acceleration
[NASA-CR-175328] 06 p0910 N84-15909
Some issues related to evolution of planetary atmospheres
06 p0939 N84-16103
Transport processes in planetary atmospheres
06 p0939 N84-16104
Global Change: A Biogeochemical Perspective
[NASA-CR-173210] 07 p1027 N84-16656
Physics of the Earth's interior
07 p1029 N84-16667
Reference coordinate systems for Earth dynamics: A preview
07 p1029 N84-16668
The magnetic state of the Earth (according to the magnetic maps for 1880.0 published by the German Naval Office)
[NASA-TM-77058] 07 p1033 N84-16702
Homogeneous magnitude system of the Eurasian continent: S and L waves
[PB84-101161] 08 p1188 N84-17744
Abrasion by aeolian particles: Earth and Mars
[NASA-CR-3788] 11 p1628 N84-20654
USSR report: Earth sciences
[JPRS-UES-84-003] 11 p1669 N84-20891
Was the early Earth completely molten?
11 p1755 N84-21460
Photochemical modeling of the Earth's stratosphere
13 p2013 N84-23058
The Corfu landslide: Analog to giant landslides on Mars
13 p2086 N84-23513
Toward an International Geosphere-Biosphere Program: A Study of Global Change
[PB84-161769] 14 p2176 N84-24038
Trapped-proton energy spectrum determination (M0002-1)
15 p2276 N84-24663
Lower mantle heterogeneity, dynamic topography and the geoid
[NASA-CR-173621] 16 p2521 N84-26184
Characteristics of the magnetospheric source of interplanetary energetic particles
16 p2573 N84-26512
The geomagnetosystem: Charged particle trajectories in the geomagnetic tail
16 p2581 N84-26556
Solution of direct problem in gravimetry on spherical Earth
17 p2700 N84-27202
Excitation of spheroidal oscillations in viscoelastic Earth
17 p2702 N84-27214
Gravity computations at low altitudes
18 p2861 N84-28167
Gravity field response to elastic deformations of Earth
18 p2862 N84-28172
Seismic tomography of the Earth's interior
18 p2879 N84-28278
Interpretation of gravitational anomalies on Mars, Venus and Earth
19 p2975 N84-28859
Feasibility of formation of discrete dust belts around Earth
19 p2976 N84-28863
Earth's dust envelop
19 p2976 N84-28864
Global hydrologic cycle
20 p3217 N84-30434
Oceanic transport
20 p3218 N84-30444
Verification of the accuracy of GEM-L2 in response to criticism by Lambeck and Coleman
20 p3221 N84-30466
Effect of antiscreening of outgoing thermal radiation by cloud cover
20 p3224 N84-30490
The Earth's radiation belts
[AD-A142673] 20 p3241 N84-30574
Worldwide energy resource distribution estimates
[DE84-012216] 20 p3248 N84-30612
Cosmic bombardment
[DE84-011402] 20 p3319 N84-31071
The near-Earth magnetic field at 1980 determined from MAGSAT data
[E84-10170] 21 p3426 N84-31733
Fundamental remote science research program. Part 2: Status report of the mathematical pattern recognition and image analysis project
[NASA-TM-58260] 21 p3430 N84-31762
The Lithosphere programme
[CSIR-TRANS-1724] 21 p3443 N84-31841
Suprathermal ions upstream of the Earth's bow shock
[DE84-012625] 21 p3444 N84-31855
Geological rhythms and cometary impacts
[NASA-TM-86116] 21 p3524 N84-32327
Galactic cycles and their relationship to life on Earth
[DE84-011737] 21 p3525 N84-32329
Dynamic model of the Earth's upper atmosphere
[NASA-CR-3835] 22 p3624 N84-32985
A geographic comparison of selected large-scale planetary surface features
[NASA-TM-86147] 22 p3679 N84-33320
Development of an automatic system for the treatment of magnetotelluric data
[INPE-3165-TDL/171] 23 p3797 N84-34075
Connection between the magnetosphere and ionosphere
23 p3837 N84-34339
Research in particles and fields — cosmic rays, gamma rays, and cosmic plasma
[NASA-CR-173928] 23 p3845 N84-34392

EARTH ALBEDO
Sampling problems of satellite measurements of radiation budget parameters
10 p1534 N84-20045
Albedo of the Sahara
10 p1534 N84-20052
Verification of the radiation budget in numerical models
10 p1535 N84-20059
Estimation of planetary albedo and emission over the Tibetan plateau from AVHRR data
10 p1536 N84-20063
Influence of stratospheric aerosols forming during combustion of rocket fuels on Earth's albedo
11 p1670 N84-20899
Influence of tropospheric aerosol on integral albedo of cloudy atmosphere. Underlying surface system
17 p2707 N84-27236
Snow reflectance from LANDSAT-4 Thematic Mapper
20 p3216 N84-30426
Lageos orbit and the albedo problem
20 p3221 N84-30464
Estimation of albedo and optical thickness with the radiative transfer method — microwave remote sensing
23 p3778 N84-33952

EARTH ATMOSPHERE
NT BIOSPHERE
NT D REGION
NT E REGION
NT EXOSPHERE
NT F REGION
NT F 2 REGION
NT GEOMAGNETIC TAIL
NT HOMOSPHERE
NT IONOSPHERE
NT LOWER IONOSPHERE
NT MAGNETOPAUSE
NT MAGNETOSPHERE
NT MESOPAUSE
NT MESOSPHERE
NT MIDDLE ATMOSPHERE
NT MIDLATITUDE ATMOSPHERE
NT RADIATION BELTS
NT SPORADIC E LAYER
NT STRATOPAUSE
NT STRATOSPHERE
NT THERMOSPHERE
NT TROPOPAUSE
NT TROPOSPHERE
NT TURBOPAUSE
NT UPPER ATMOSPHERE
International carbon dioxide-related activities: The international organizations involved and US bilateral arrangements
[DE83-016013] 02 p0245 N84-11602
Measurements of atmospheric aerosols: Experimental methods and results of measurements off the east coast of the United States
[AD-A130998] 02 p0248 N84-11626
Studies related to the deep Earth gas
[PB83-244004] 02 p0251 N84-11644
Role of the oceans in the carbon cycle
[DE83-015530] 02 p0258 N84-11688
Propagation of a radio-frequency pulsed signal over the Earth. The JOLLY programs
[DE84-000109] 04 p0523 N84-13439
Surface heat flux derived from sodar amplitude and frequency data: A comparison
[DE83-017930] 04 p0584 N84-13717
Manned flight chronology 05 p0833 N84-14160
Atomospheric studies pertaining to sulfur in the environment
[DE84-001455] 05 p0701 N84-14597
Techniques to extend ozonesonde temperature data to the mesopause
[DE84-002749] 05 p0706 N84-14623
Carbon monoxide in the atmospheres of the terrestrial planets
05 p0764 N84-15011
Whistler mode turbulence generated by electron beams in Earth's bow shock
[NASA-CR-173143] 07 p1034 N84-16707
Analysis of longwave radiation for the Earth-atmosphere system
[NASA-CR-173155] 08 p1143 N84-17437
Papers presented at the Symposium on Upper Atmosphere Research in South Africa
[CSIR-S-325] 09 p1343 N84-18775
The present status of research at the Magnetic Observatory
09 p1343 N84-18777
Another look at the optimum frequencies for a water vapor radiometer
10 p1473 N84-19622
Effective Earth radius for refraction of radio waves at altitudes above 1 km
[AD-A137095] 10 p1482 N84-19683
An analysis of concepts for controlling atmospheric carbon dioxide
[DE84-004203] 10 p1532 N84-20033
FGGE level 3-B daily global analyses, part 3
[PB84-135854] 10 p1541 N84-20101
Investigate and verify the validity of mathematical formulas in relation to data obtained from theoretical investigations and experimental observations
[AD-A137847] 11 p1682 N84-20974
CO/sub 2 climate research plan
[DE84-005461] 11 p1688 N84-21008
Remote sensing of winds and turbulence above complex terrain during ASCOT-1980
[DE84-004231] 11 p1688 N84-21009
Atmospheric transmittance/radiance: Computer code LOWTRAN 6. Supplement: Program listings
[AD-A137689] 11 p1706 N84-21123
Tidal oscillations in the atmospheric sodium layer
[INPE-3008-PRE/454] 12 p1848 N84-22033
Directory of research publications
[AD-A138224] 12 p1860 N84-22119
Carbon cycle research plan
[DE84-006221] 12 p1861 N84-22124
A preliminary study of the feasibility of detecting long-term trends in atmospheric humidity
[DE84-006417] 14 p2180 N84-24055
The carbon dioxide research plan, a summary
[DOE/ER-0178] 16 p2528 N84-26226
Influence of tropospheric aerosol on integral albedo of cloudy atmosphere. Underlying surface system
17 p2707 N84-27236
Basic elements of nuclear geophysics
[INPE-3002-PRE/452] 17 p2726 N84-27350
Preliminary comparison of insolation measurements, forecasts, and estimates from satellite imagery
[DE84-004435] 18 p2683 N84-28293
Sea ice
20 p3218 N84-30446
Practical applications of a space station
[NASA-CR-173672] 21 p3353 N84-31270
An analysis of possible future atmospheric retention of fossil fuel CO-2
[DOE/OR-21400/1] 23 p3793 N84-34054
Fabrication of glass gas cells for the HALOE and MAPS satellite experiments
[NASA-TM-86302] 24 p3866 N84-34501
Atmosphere temperature profile recovery using partial interferometry
[AD-A144196] 24 p3919 N84-34810
NASA/MSFC FY-84 Atmospheric Processes Research Review
[NASA-CP-2329] 24 p3923 N84-34829

EARTH AXIS
A note on atmospheric effects in the Earth's rotation
07 p1030 N84-16678

EARTH CORE
Magnetic anomalies in east Pacific using MAGSAT data
[E84-10060] 06 p0864 N84-15630
Was the early Earth completely molten?
11 p1755 N84-21460
Interior of the Earth
20 p3218 N84-30443

The Lithosphere programme
[CSIR-TRANS-1724] 21 p3443 N84-31841

EARTH CRUST

Analysis of gases in the Earth's crust
[PB83-243972] 02 p0251 N84-11643
Crustal deformation, the earthquake cycle, and models of viscoelastic flow in the asthenosphere
[NASA-TM-85117] 03 p0407 N84-12662
Inverse torsional Eigenvalue problems — reconstruct the S-wave velocity of the Earth
[DE84-002568] 05 p0704 N84-14621
The magnetic petrology of the deep crust and the interpretation of regional magnetic anomalies 05 p0706 N84-14634
Investigation of antarctic crust and upper mantle using MAGSAT and other geophysical data
[E84-10055] 06 p0864 N84-15627
Magnetic anomalies in east Pacific using MAGSAT data
[E84-10060] 06 p0864 N84-15630
Synthesis of regional crust and upper-mantle structure from seismic and gravity data
[E84-10061] 06 p0864 N84-15631
Comments on conventional terrestrial and quasi-inertial reference systems 07 p1029 N84-16669
Development of ultrasonic modeling techniques for the study of crustal inhomogeneities
[AD-A134501] 08 p1187 N84-17738
Recent crustal movements 10 p1520 N84-19952
The magnetic petrology of the deep crust and the interpretation of regional magnetic anomalies
[NASA-CR-175407] 10 p1533 N84-20041
Determining density of upper mantle rocks 11 p1670 N84-20898
The Marine Geology Program of the US Geological Survey
[USGS-CIRC-906] 11 p1677 N84-20944
Workshop on a Cross Section of Archean Crust
[NASA-CR-175451] 11 p1677 N84-20947
Is the Kapuskasing structure the site of a cryptic suture 11 p1678 N84-20949
Ion microprobe zircon geochronology of the Uivak Gneisses: Implications for the evolution of early terrestrial crust in the North Atlantic Craton 11 p1678 N84-20951
Average sedimentary rock rare Earth element patterns and crustal evolution: Some observations and implications from the 3800 Ma ISUA supracrustal belt, West Greenland 11 p1678 N84-20953
Geophysical consequences of phanerozoic and Archean crustal evolution: Evidence from crustal cross-sections 11 p1679 N84-20955
An ancient depleted mantle source for Archean crust in Rajasthan, India 11 p1679 N84-20957
Development of the Earth's early crust: Implications from the Beartooth Mountains 11 p1679 N84-20959
A multi-element study of ISUA iron-formation, W-Greenland 11 p1680 N84-20961
Metamorphic fluids and uplift-erosion history of a portion of the Kapuskasing structural zone, Ontario, as deduced from fluid inclusions 11 p1680 N84-20962
Granitic rocks and metasediments in Archean crust, Rainy Lake area, Ontario: ND isotope evidence for mantle-like SM/ND sources 11 p1680 N84-20964
Continental crustal composition and lower crustal models 11 p1680 N84-20965
Archean crust-mantle geochemical differentiation 11 p1680 N84-20966
The Pikwitonei granulite domain: A lower crustal level along the Churchill-Superior boundary in central Manitoba 11 p1680 N84-20967
The Archean crust in the Wawa-Chapleau-Timmins region. A field guidebook prepared for the 1983 Archean Geochemistry-Early Crustal Genesis Field Conference 11 p1681 N84-20969
DBMS as a tool for project management 11 p1749 N84-21416
Use of MAGSAT anomaly data for crustal structure and mineral resources in the US midcontinent
[E84-10112] 13 p2005 N84-23005
Application of Magsat lithospheric modeling in South America. Part 1: Processing and interpretation of magnetic and gravity anomaly data
[E84-10115] 13 p2005 N84-23008
Extension of finitely conducting Earth-Image-Theory results to any range
[AD-A139144] 14 p2139 N84-23827
Activities at the Lunar and Planetary Institute
[NASA-CR-173528] 14 p2166 N84-23974
Discussion of the design of satellite-laser measurement stations in the eastern Mediterranean under the geological aspect. Contribution to the earthquake prediction research by the Wegener Group and to NASA's Crustal Dynamics Project
[NASA-TM-77412] 14 p2175 N84-24031
Application of MAGSAT to lithospheric modeling in South America. Part 2: Synthesis of geologic and seismic data for development of integrated crustal models
[E84-10126] 15 p2355 N84-25128
Do satellite magnetic anomaly data accurately portray the crustal component? 15 p2356 N84-25134
US aeromagnetic and satellite magnetic anomaly comparisons 15 p2356 N84-25136
A crustal structure study of South America 15 p2357 N84-25139
A critical assessment of viscous models of trench topography and corner flow
[NASA-CR-173648] 17 p2667 N84-27005
Magnetohydrodynamic generator helps predict earthquakes 17 p2700 N84-27199
Deep geophysical investigations in zones of present-day active volcanism 17 p2701 N84-27204
Local gravity anomalies and crustal density inhomogeneities in southern Kurile Islands 17 p2701 N84-27205
Geophysical and tectonic characteristics of Mongolian-Okhotsk seismic zone 17 p2701 N84-27206
Seismic model of Earth's crust in southern Sea of Okhotsk region and some results of its geological inerpretation 17 p2701 N84-27207
Geoacoustic method for continuous monitoring of stressed-strained state of Earth's crust 17 p2706 N84-27231
Detailed study of Earth's crust in Baykal rift zone according to refracted waves data 18 p2860 N84-28160
Relationship between residual displacements, strains and tilts of Earth's surface and earthquake focus characteristics 18 p2862 N84-28174
Two types of continental breakup 18 p2863 N84-28178
Petrologic and geophysical sources of long-wavelength crustal magnetic anomalies
[NASA-CR-175245] 18 p2878 N84-28276
Deep crustal structure on space images 19 p2977 N84-28869
Structural-geomorphological interpretation of lineaments detected from space photographs and patterns of mineral distribution 19 p2977 N84-28871
Minerals 19 p3038 N84-29268
Dominant depth of sources in the Kuril-Kamchatka earthquake focal zone from observations by surface and bottom stations 19 p3060 N84-29419
Interior of the Earth 20 p3218 N84-30443
Research activities of the Geodynamics Branch
[NASA-TM-86123] 20 p3220 N84-30455
Crustal deformation and earthquakes 20 p3220 N84-30457
Results of laser ranging collocations during 1983 20 p3220 N84-30458
A comparison between Lageos laser ranging and VLBI determined baselines 20 p3220 N84-30459
Geodynamics of crustal deformation and seismotectonic block movements in central Europe 20 p3220 N84-30460
Geodynamics: Introduction and background 20 p3222 N84-30476
Projection for space geodynamics, 1988-1998 20 p3222 N84-30477
Dependence of crustal structure of eastern Pacific Ocean on its age 20 p3223 N84-30483
MAGSAT correlations with geoid anomalies — western Gulf of Mexico
[E84-10174] 21 p3427 N84-31736
The Lithosphere programme
[CSIR-TRANS-1724] 21 p3443 N84-31841
Results of a detailed gravity survey in the Alamosa area, Alamosa County, Colorado
[DE84-012188] 21 p3444 N84-31853
Statistical tests for detecting crustal movements using Bayesian inference
[PB84-198811] 21 p3445 N84-31861
Applications of teleseismic body waves to shallow Earth structure 23 p3795 N84-34064
Space/Airborne Laser Ranging (SALR) as complement to groundbased transportable Satellite Laser Ranging (SLR) — crystal dynamics 24 p3906 N84-34742
Andean tectonics: Implications for Satellite Geodesy
[NASA-TM-86160] 24 p3919 N84-34809

EARTH ENVIRONMENT

Theory and modeling of atmospheric turbulence, part 1
[NASA-CR-3787] 09 p1348 N84-18805

EARTH FIGURE

U GEODESY

EARTH HYDROSPHERE

Basic elements of nuclear geophysics
[INPE-3002-PRE/452] 17 p2726 N84-27350

EARTH MANTLE

Waveform inversion of mantle Love waves: The born seismogram approach
[NASA-CR-174483] 02 p0248 N84-11622
Postglacial rebound observed by Lageos and the effective viscosity of the lower mantle
[NASA-TM-84982] 04 p0562 N84-13705
Inverse torsional Eigenvalue problems — reconstruct the S-wave velocity of the Earth
[DE84-002568] 05 p0704 N84-14621
Short period P-wave attenuation in the middle and lower mantle of the Earth 05 p0706 N84-14633
Investigation of antarctic crust and upper mantle using MAGSAT and other geophysical data
[E84-10055] 06 p0864 N84-15627
Synthesis of regional crust and upper-mantle structure from seismic and gravity data
[E84-10061] 06 p0864 N84-15631
Lateral heterogeneity and azimuthal anistropy of the upper mantle: Love and Rayleigh waves 100-250 sec
[NASA-CR-174619] 06 p0878 N84-15710
The Norwegian Seismic Array (NORSAR). Phase 3
[AD-A134038] 06 p0878 N84-15713
Teleseismic array analysis of upper mantle compressional velocity structure
[NASA-CR-173285] 08 p1185 N84-17723
Determining density of upper mantle rocks 11 p1670 N84-20898
An ancient depleted mantle source for Archean crust in Rajasthan, India 11 p1679 N84-20957
Archean crust-mantle geochemical differentiation 11 p1680 N84-20966
The upper mantle beneath the Cascade Range: A comparison with the Gulf of California
[NASA-CR-175428] 11 p1681 N84-20970
Lower mantle heterogeneity, dynamic topography and the geoid
[NASA-CR-173621] 16 p2521 N84-26184
Density inhomogeneities in upper mantle of eastern Indian Ocean 17 p2702 N84-27210
Nature of 640-KM seismic boundary 17 p2703 N84-27216
New data on upper mantle literal inhomogeneities in western Eurasia 17 p2703 N84-27217
Optimum density structure of upper mantle along Japan - Shatskiy Rise - Emperor Sea mounts geotraverse 17 p2704 N84-27220
Structure and direction of evolution of European tectonosphere according to geological and geophysical data 17 p2706 N84-27233
Density model of upper mantle under oceans 18 p2858 N84-28147
Detailed study of Earth's crust in Baykal rift zone according to refracted waves data 18 p2860 N84-28160
Adiabatic structure in mantle transition zone 18 p2863 N84-28177
Two types of continental breakup 18 p2863 N84-28178
Seismic tomography of the Earth's interior 18 p2879 N84-28278
On the elastic wave velocity distribution beneath the continental slope of the Kuril trench 19 p3061 N84-29421
Structure of ocean floor in relation to conditions for formation of lithosphere 20 p3223 N84-30484
Oscillatory instability in a 2-fluid Benard problem
[AD-A142792] 21 p3399 N84-31565
MAGSAT correlations with geoid anomalies — western Gulf of Mexico
[E84-10174] 21 p3427 N84-31736
The Lithosphere programme
[CSIR-TRANS-1724] 21 p3443 N84-31841
Applications of teleseismic body waves to shallow Earth structure 23 p3795 N84-34064

EARTH MOVEMENTS

NT EARTHQUAKES
NT LANDSLIDES
Preliminary analysis of the seismic vulnerability of selected buildings at Fort Ord, California using the rapid eismic analysis procedure
[AD-A130924] 01 p0057 N84-10372
State-of-the-Art for assessing earthquake hazards in the United States. Report 20: The contribution of directivity focusing to earthquake intensities
[AD-A132893] 06 p0878 N84-15716
Earth strain measurements with the transportable laser ranging system: Field techniques and planning
[NASA-CR-175150] 08 p1186 N84-17725
Strong motion effects due to seismic waves in dipping layers
[PB84-127919] 08 p1189 N84-17747
Recent crustal movements 10 p1520 N84-19952
Determination of strong ground motion in complex structures using dynamic raytracing
[AD-A138559] 14 p2176 N84-24036

Proceedings of the 12th Joint Panel Conference of the US-Japan Cooperative Program in Natural Resources: Wind and Seismic Effects
[PB84-167758] 15 p2318 N84-24911
Changes in relative instantaneous spreading rates in the Indian Ocean 18 p2858 N84-28149
Seismic tomography of the Earth's interior 18 p2879 N84-28278
High precision measurements in crustal dynamic studies
[NASA-CR-173680] 18 p2879 N84-28279
Update: San Andreas Fault experiment 20 p3220 N84-30456
Geokinetic effects on motion sensitive instrumentation, systems and facilities
[AD-A142682] 20 p3241 N84-30575
Proceedings of Tsunami Symposium
[PB84-183482] 20 p3252 N84-30638
Statistical tests for detecting crustal movements using Bayesian inference
[PB84-198811] 21 p3445 N84-31861
Seismic hazard study for selected sites in New Mexico and Nevada
[AD-A143392] 22 p3623 N84-32960
Strain release along ocean transform faults 24 p3918 N84-34804
Geophysical interpretation of satellite laser ranging measurements of crustal movement in California
[NASA-TM-86148] 24 p3919 N84-34808

EARTH OBSERVATIONS (FROM SPACE)
NT PHOTORECONNAISSANCE
NT SATELLITE OBSERVATION
NT SPOT (FRENCH SATELLITE)
A stochastic atmospheric model for remote sensing applications
[NASA-CR-172181] 01 p0100 N84-10648
Cosmonauts use new instruments for Earth study 05 p0633 N84-14162
Ocean color studies from Salyut-7 05 p0633 N84-14164
Crop identification of SAR data using digital textural analysis 07 p0988 N84-16404
The SIR-A atlas 07 p0989 N84-16405
Spaceborne SAR and sea ice 07 p0990 N84-16412
The US space station: Potential base for a spaceborne microwave facility 07 p0991 N84-16420
Technology needs of advanced Earth observation spacecraft
[NASA-CR-3698] 08 p1114 N84-17248
Nelepo describes Intercosmos-Black Sea experiment 09 p1265 N84-18257
The geodetic use of satellite observations 10 p1519 N84-19947
Basic investigation on the feasibility of multispectral radiation information from microwave radiometry measurements for Earth-scientific objectives of remote sensing
[DFVLR-FB-83-27] 10 p1526 N84-20000
Research and technology, fiscal year 1983
[NASA-TM-85557] 10 p1592 N84-20434
Radar backscatter modelling 13 p2088 N84-23525
Pinacate-Gran Desierto Region, Mexico: SIR-A data analysis 13 p2088 N84-23526
NASA Oceanic Processes Program, fiscal year 1983
[NASA-TM-86248] 14 p2183 N84-24078
Optimizing the maneuvers of an observation satellite for rapid overflight of a precise point on Earth 15 p2268 N84-24617
Preserve the sense of Earth from space
[DE84-900854] 15 p2359 N84-25159
The theory of Earth observation using multiple-frequency radar
[ESA-TT-819] 16 p2509 N84-26105
Observations of the Earth's magnetic field from the Space Station: Measurement at high and extremely low altitude using Space Station-controlled free-flyers
[NASA-TM-86119] 16 p2521 N84-26183
Space station needs, attributes and architectural options study. Volume 7-1: Data book. Science and applications missions
[NASA-CR-173700] 18 p2804 N84-27796
Remote sensing of the Santonge littoral. Processing and interpretation of satellite images
[ISBN-2-85929-016-8] 18 p2867 N84-28202
Automated search for control images on photographs of Earth's surface using spectral analysis 19 p2978 N84-28874
Interior of the Earth 20 p3218 N84-30443
Oceanic transport 20 p3218 N84-30444
Polar glaciology 20 p3218 N84-30445
Sea ice 20 p3218 N84-30446
Tropospheric science 20 p3219 N84-30447
Middle atmospheric science 20 p3219 N84-30448
Aeronomy 20 p3219 N84-30449
Earth Observing System. Science and mission requirements, volume 1, part 1
[NASA-TM-86129-VOL-1-PT-1] 20 p3219 N84-30450
Implementation strategy 20 p3219 N84-30453
Geodynamics: Introduction and background 20 p3222 N84-30476
USSR report: Space
[JPRS-USP-84-004] 21 p3347 N84-31228
Cosmonaut Berezovoy's memoirs on 211-day spaceflight 21 p3347 N84-31231
Excerpt from cosmonaut Aleksandrov's flight diary 21 p3347 N84-31232
Azerbaijan Institute develops subsatellite measurement systems 21 p3348 N84-31238
BRESEX: On board supervision, basic architecture and preliminary aspects for payload and space shuttle interface
[NASA-CR-173673] 21 p3353 N84-31271
Ocean Color Working Group report to ESA Observation Advisory Committee
[ESA-BR-20] 23 p3785 N84-34003
Lightning observations from the Space Shuttle 24 p3928 N84-34862
Analysis of lidar, radar and satellite measurements on severe thunderstorms and their environments 24 p3928 N84-34864
Sensor studies and space flight opportunities 24 p3933 N84-34896
Preliminary study of LANDSAT imageries of Taiwan and its surroundings 24 p3956 N84-35050

EARTH ORBITAL RENDEZVOUS
Continuous wave (CW) diode laser instrumentation for rendezvous and docking maneuvers in geosynchronous orbits 24 p3908 N84-34752
Rendezvous and docking mission and navigation sensors 24 p3908 N84-34753

EARTH ORBITS
JPL highlights, 1981
[NASA-CR-174535] 01 p0159 N84-11046
A position paper: Mesoscale oceanography from GEOSAT
[AD-A132292] 04 p0569 N84-13749
A feasibility study of electromagnetic DE-spin system for Earth orbiting satellites 06 p0930 N84-16040
Studies of neutron and proton nuclear activation in low-Earth orbit 2 06 p0930 N84-16041
Laboratory degradation of Kapton in a low energy oxygen ion beam
[NASA-TM-83530] 09 p1272 N84-18310
Qualification evaluation tests of 20.0 ampere-hour sealed nickel-cadmium cells
[NASA-CR-173358] 09 p1341 N84-18759
Orbital motion of a freely coning solar sail
[AD-A136794] 10 p1435 N84-19381
A 37.5-kW point design comparison of the nickel-cadmium battery, bipolar nickel-hydrogen battery, and regenerative hydrogen-oxygen fuel cell energy storage subsystems for low Earth orbit
[NASA-TM-83651] 13 p2008 N84-23022
Advanced designs for IPV nickel-hydrogen cells
[NASA-TM-83643] 13 p2008 N84-23025
Teardown analysis of a ten cell bipolar nickel-hydrogen battery
[NASA-TM-83618] 13 p2008 N84-23026
Conceptual design study. Science and Applications Space Platform (SASP). Final briefing
[NASA-CR-173520] 14 p2114 N84-23670
A filtered attitude determination system for spacecraft measurement and control 15 p2267 N84-24612
Optimizing the maneuvers of an observation satellite for rapid overflight of a precise point on Earth 15 p2268 N84-24617
Investigation of thermospheric winds relative to space station orbital altitudes
[NASA-TM-82577] 15 p2371 N84-25220
Numerical orbit generators of artificial earth satellites
[INPE-3050-RPE/455] 16 p2455 N84-25740
Free molecular aerodynamics for satellite application
[ESA-TT-776] 16 p2456 N84-25749
Satellite control by stabilizing flaps
[INPE-2869-TDL/145] 17 p2614 N84-26733
Theory of digital imaging from orbital synthetic aperture radar
[AD-A141152] 18 p2828 N84-27957
Numerical-analytical method for computing movement of 12-hour artificial earth satellites in near-circular orbits 19 p2972 N84-28841
Observational requirements and measurement systems concepts 20 p3219 N84-30452
Pravda cites advantages of project for orbiting solar reflectors 21 p3347 N84-31235
A high voltage electrical power system for low Earth orbit applications
[NASA-TM-86453] 21 p3390 N84-31511
Study of proton and neutron activation of metal samples in low Earth orbit
[NASA-CR-171113] 21 p3430 N84-31763
Spinoff, 1984
[NASA-TM-85596] 22 p3676 N84-33305
Earth-based planetary data 23 p3842 N84-34374
Stochastic control of pitch motion of satellites using stabilizing flaps
[INPE-3235-PRE/584] 24 p3859 N84-34458
Introduction to simulation of upper atmosphere oxygen satellite exposed to atomic oxygen in low Earth orbit 24 p3863 N84-34479

EARTH PLANETARY STRUCTURE
Geology of the Neptune Range, Antarctica 14 p2162 N84-23946
Structural studies of the northwest Iberian continental margin using long-range side-scan sonar
[IOS-161] 15 p2366 N84-25198
Structure and direction of evolution of European tectonosphere according to geological and geophysical data 17 p2706 N84-27233
A report on the task of collecting geological and structural data in Rio de Janeiro state
[INPE-2851-NTE/203] 17 p2726 N84-27351
Two types of continental breakup 18 p2863 N84-28178
Seismic tomography of the Earth's interior 18 p2879 N84-28278
Interpretation of gravitational anomalies on Mars, Venus and Earth 19 p2975 N84-28859

EARTH RADIATION
U TERRESTRIAL RADIATION

EARTH RADIATION BUDGET EXPERIMENT
NIMBUS-ERB instrument study
[NASA-CR-165922] 02 p0222 N84-11459
FGGE/ERBM tape specification and shipping letter description
[NASA-CR-170547] 06 p0934 N84-16072
FGGE/ERBZ tape specification and shipping letter description
[NASA-CR-170548] 06 p0934 N84-16073
Analysis of longwave radiation for the Earth-atmosphere system
[NASA-CR-173155] 08 p1143 N84-17437
Users guide for ERB 7 MAT (including the first year quality control)
[NASA-CR-170514] 13 p2026 N84-23134
Nimbus-7 ERB (Earth Radiation Budget) Sub-Target Radiance Tape (STRT) data base
[PB84-149921] 14 p2177 N84-24039
ERB master archival tape specification no. T 134081 ERB MAT, revision 1
[NASA-TM-85612] 14 p2204 N84-24230
Passive exposure of Earth radiation budget experiment components (A0147) 15 p2278 N84-24684
A robust pseudo-inverse spectral filter applied to the Earth Radiation Budget Experiment (ERBE) scanning channels
[NASA-TM-85781] 15 p2370 N84-25219
User's guide for ERB 7 SEFDT. Volume 1: User's guide. Volume 2: Quality control report, year 1
[NASA-CR-170616] 16 p2581 N84-26553
User's guide for ERB 7 matrix. Volume 1: Experiment description and quality control report for year 1
[NASA-CR-170619] 21 p3484 N84-31960
Science support for the Earth radiation budget sensor on the Nimbus-7 spacecraft
[NASA-CR-175251] 22 p3622 N84-32948
Space simulation testing of the Earth Radiation Budget Satellite (ERBS) 24 p3861 N84-34471

EARTH RESOURCES
NT AQUIFERS
NT COAL
NT CRUDE OIL
NT FORESTS
NT FOSSIL FUELS
NT GEOTHERMAL RESOURCES
NT GLACIERS
NT ICEBERGS
NT LAND ICE
NT MARINE RESOURCES
NT OIL FIELDS
NT PEAT
NT RAIN FORESTS
NT SOLVENT REFINED COAL
NT TAR SANDS
NT THERMAL RESOURCES
NT UNDERWATER RESOURCES
NT WATER RESOURCES
Successes, shortcomings in using production wastes as raw material 01 p0054 N84-10352
Observation of the Earth in the middle infrared
[ESA-TT-790] 03 p0402 N84-12629
Remote sensing of the Earth and agriculture 05 p0634 N84-14167

Mapping and monitoring renewable resources with space SAR 07 p0968 N84-16403
Microwave remote sensing experiment for first Spacelab mission
[BMFT-FB-W-83-022] 10 p1527 N84-20001
Techniques and instruments for cosmonaut remote sensing 12 p1775 N84-21575
Remote sensing of Earth terrain 12 p1831 N84-21938
Effects of vegetation canopy structure on microwave scattering 12 p1832 N84-21942
Bidirectional spectral reflectance of Earth resources: Influence of scene complexity and atmospheric effects on remote sensing 12 p1833 N84-21946
Remote sensing of Earth terrain 12 p1834 N84-21951
Major salt beds of the Palo Duro and Dalhart Basins, Texas
[DE84-005255] 12 p1837 N84-21973
Description of algorithms for processing Coastal Zone Color Scanner (CZCS) data
[NASA-CR-173466] 12 p1863 N84-22138
Some aspects of the high equatorial orbit for the Tropical Earth Resources Satellite (TERS)
[VTH-LR-404] 12 p1904 N84-22400
The Arctic platform in the national petroleum reserve in Alaska: Deposition, deformation and petroleum potential 14 p2164 N84-23959
Oil and gas resources of the North Slope, Alaska 14 p2164 N84-23960
Survey of automated statewide natural resource information systems
[AD-A139017] 14 p2170 N84-23996
Orbital imagery: A cartographic solution
[INPE-2820-PRE/374] 15 p2357 N84-25143
Publications of the Jet Propulsion Laboratory 1982
[NASA-CR-173539] 15 p2417 N84-25510
Project SERGE: Brazil referential field data for the SIR-A experiment
[INPE-2973-NTE/210] 17 p2711 N84-27259
Remote sensing of the Santonge littoral. Processing and interpretation of satellite images
[ISBN-2-85929-016-8] 18 p2867 N84-28202
Results from study of Earth resources from space 19 p2976 N84-28867
Earth Observing System. Science and mission requirements, volume 1, part 1
[NASA-TM-86129-VOL-1-PT-1] 20 p3219 N84-30450
Azerbaijan Institute develops subsatellite measurement systems 21 p3348 N84-31238
Review of existing environmental and natural resource data bases
[DE84-012039] 21 p3519 N84-32292
Materials Substitution and Recycling
[AGARD-CP-356] 23 p3702 N84-33465
The nature of the critical and strategic materials problem 23 p3702 N84-33466
Factors affecting the supply of strategic raw materials with particular reference to the aerospace manufacturing industry 23 p3702 N84-33467
Measures for materials conservation in aero-engine construction 23 p3702 N84-33468
The Navy program to develop replacements for critical and strategic materials 23 p3704 N84-33478
New developments in materials recycling by the US Bureau of Mines 23 p3704 N84-33480
Airborne Visible/Infrared Imaging Spectrometer (AVIRIS): An advanced tool for Earth remote sensing 23 p3781 N84-33976
A case study of spaceborne synthetic aperture radar system design for the Earth Resources Satellite 23 p3782 N84-33987

EARTH RESOURCES PROGRAM
NT SEASAT PROGRAM
Earth Resources: A continuing bibliography with indexes, issue 40
[NASA-SP-7041(40)] 09 p1336 N84-18723
Earth Resources: A continuing bibliography with indexes
[NASA-SP-7041(41)] 14 p2166 N84-23975
Earth resources, a continuing bibliography with indexes
[NASA-SP-7041(42)] 21 p3425 N84-31725

EARTH RESOURCES SURVEY PROGRAM
NT SEASAT PROGRAM

EARTH RESOURCES TECHNOLOGY SATELLITE D
U LANDSAT 4

EARTH RESOURCES TECHNOLOGY SATELLITES
U LANDSAT SATELLITES

EARTH ROTATION
The NASA Geodynamics Program: An overview
[NASA-TP-2147] 01 p0104 N84-10675
Nonuniformity of the Earth's rotation and the motion of the poles
[NASA-TM-77337] 06 p0677 N84-15709
Comments on conventional terrestrial and quasi-inertial reference systems 07 p1029 N84-16669
Reference frame requirements and the MERIT campaign
[REPT-329] 07 p1029 N84-16671
Variational methods in Earth rotation 07 p1030 N84-16673
Theory of rotation of the rigid Earth 07 p1030 N84-16674
Computing tides, nutations and tidally-induced variations in the Earth's rotation rate for a rotating, elliptical Earth 07 p1030 N84-16675
A note on atmospheric effects in the Earth's rotation 07 p1030 N84-16678
Global dynamics 07 p1031 N84-16686
The influence of solar activity on Earth's rotation: Problems of a bivariate analysis 09 p1410 N84-19218
Predicting variations in Earth rotation — for clock synchronization 09 p1411 N84-19225
Sensitivity of SLR baselines to errors in Earth orientation 20 p3220 N84-30461
Analysis of the Earth's variable rotation 20 p3221 N84-30462
Changes in Earth's rotation rate caused by zonal tide and their manifestations in atmospheric pressure field 20 p3224 N84-30487
Observations of long-period motions of the Earth at the South Pole 21 p3440 N84-31823
Earth's rotation and its geophysical implications — laser telemetry 24 p3904 N84-34720

EARTH SATELLITES
NT ACTIVE SATELLITES
NT AERONAUTICAL SATELLITES
NT APPLICATIONS EXPLORER SATELLITES
NT ASTRONOMICAL NETHERLANDS SATELLITE
NT BIOSATELLITES
NT COMMUNICATION SATELLITES
NT COSMIC BACKGROUND EXPLORER SATELLITE
NT COSMOS SATELLITES
NT COSMOS 1129 SATELLITE
NT DYNAMICS EXPLORER SATELLITES
NT DYNAMICS EXPLORER 1 SATELLITE
NT DYNAMICS EXPLORER 2 SATELLITE
NT ENVIRONMENTAL RESEARCH SATELLITES
NT ERS-1 (ESA SATELLITE)
NT ESA SATELLITES
NT EUROPEAN COMMUNICATIONS SATELLITE
NT EXOSAT SATELLITE
NT EXPLORER SATELLITES
NT GEODETIC SATELLITES
NT GEOS 1 SATELLITE
NT GEOS 2 SATELLITE
NT GOES SATELLITES
NT GRAVSAT SATELLITE
NT HEAO 1
NT HEAO 2
NT HELIOS A
NT HELIOS B
NT HELIOS SATELLITES
NT HELIOS 1
NT HELIOS 2
NT HIPPARCOS SATELLITE
NT INFRARED ASTRONOMY SATELLITE
NT INTELSAT SATELLITES
NT INTERNATIONAL SUN EARTH EXPLORER 1
NT INTERNATIONAL SUN EARTH EXPLORER 2
NT INTERNATIONAL SUN EARTH EXPLORER 3
NT INTERNATIONAL SUN EARTH EXPLORERS
NT IUE
NT L-SAT
NT LAGEOS (SATELLITE)
NT LANDSAT SATELLITES
NT LANDSAT 4
NT LANDSAT 5
NT MAGSAT SATELLITES
NT MARITIME SATELLITES
NT MAROTS (ESA)
NT METEOROLOGICAL SATELLITES
NT METEOSAT SATELLITE
NT MOON
NT NAVIGATION SATELLITES
NT NAVSTAR SATELLITES
NT NIMBUS SATELLITES
NT NIMBUS 5 SATELLITE
NT NIMBUS 7 SATELLITE
NT NOAA SATELLITES
NT NOAA 6 SATELLITE
NT NOAA 8 SATELLITE
NT OAO 3
NT OTS (ESA)
NT PROGNOZ SATELLITES
NT RCA SATCOM SATELLITES
NT RELAY SATELLITES
NT ROSAT MISSION
NT SAN MARCO SATELLITE
NT SARSAT
NT SCATHA SATELLITE
NT SEASAT SATELLITES
NT SEASAT 1
NT SIRIO SATELLITE
NT SIRS B SATELLITE
NT SMS 2
NT SOLAR POWER SATELLITES
NT SYNCHRONOUS METEOROLOGICAL SATELLITE
NT SYNCHRONOUS SATELLITES
NT TETHERED SATELLITES
NT TIROS N SERIES SATELLITES
NT VENERA SATELLITES
The high zenith angle limits of cosmic ray access to an Earth satellite
[AD-A130216] 01 p0166 N84-11092
Simulation and analysis of low altitude terrestrial satellites
[INPE-2754-PRE/330] 04 p0488 N84-13209
Mechanisms that limit potentials on ionospheric satellites
[AD-P002118] 16 p2524 N84-26204
Quasicircular equatorial orbits of artificial earth satellites with allowance for light pressure 19 p2974 N84-28851
A rapid estimation of near earth satellite lifetimes with quasi-dynamic atmospheric model with application to a proposed Brazilian satellite 19 p3119 N84-29823
Interactions between satellites and plasma
[NASA-TM-77476] 23 p3700 N84-33451

EARTH SHAPE
U GEODESY

EARTH SURFACE
Experiment to measure microkinematic processes on the surface of the Earth 02 p0233 N84-11529
The Heat Capacity Mapping Mission (HCMM) anthology
[E84-10051] 05 p0695 N84-14563
The turbulent transfer of ions to the Earth's surface 05 p0706 N84-14630
Extensions and applications of a second-order landsurface parameterization
[NASA-CR-175144] 07 p1023 N84-16636
Tidal effects in geodetic observations 07 p1030 N84-16676
Effective Earth radius for refraction of radio waves at altitudes above 1 km
[AD-A137095] 10 p1482 N84-19683
The elements of the Earth's magnetism and their secular changes between 1550 and 1915
[NASA-TM-77343] 10 p1533 N84-20043
Long wave radiance to space and net flux at the surface 10 p1535 N84-20056
SeaMARC 2 side-scan images of submarine volcanoes: Potential analogues for Venus 11 p1754 N84-21452
Velocities of windblown particles in saltation: Venus, Earth, and Mars 13 p2082 N84-23491
Fluvial erosion of impact craters: Earth and Mars 13 p2083 N84-23494
Mars-analog studies in Wright and Victoria Valleys, Antarctica 14 p2163 N84-23951
The theory of Earth observation using multiple-frequency radar
[ESA-TT-819] 16 p2509 N84-26105
Vertical movements and magnetic variations before earthquakes 18 p2860 N84-28163
Relationship between residual displacements, strains and tilts of Earth's surface and earthquake focus characteristics 18 p2862 N84-28174
High precision measurements in crustal dynamic studies
[NASA-CR-173680] 18 p2879 N84-28279
Deep crustal structure on space images 19 p2977 N84-28869
Sensing of factors involved in development of exogenous processes on space photographs of arid territories 19 p2977 N84-28870
Soil moisture from temperature measurements at the Earth's surface, update 20 p3222 N84-30474
Experimental validation of a millimeter wave radar technique to remotely sense atmospheric pressure at the Earth's surface 23 p3775 N84-33935

EARTH TERMINALS
A simple model for the depolarizing effects of rain and ice on Earth-satellite links in the 10 to 30 GHz frequency range
[NASA-CR-174482] 02 p0211 N84-11382
Subsystem duplexer for a 6-4 GHz Earth station
[INPE-2795-PRE/357] 05 p0666 N84-14379
SPOT (French satellite) — satellite and program overviews 08 p1175 N84-17652
Voice processor for a single channel per carrier FM earth station
[INPE-2707-TDL/130] 09 p1298 N84-18485

Pluribus satellite IMP (interface Message Provision) development mobile access terminal network
[AD-A136256] 09 p1298 N84-18486
The technical, economic and institutional feasibility of customer premises Earth stations for INTELSAT service
[PB84-128404] 10 p1484 N84-19703
System requirements for a SCPC FM low capacity Earth station — Brazil
[INPE-2943-NTE/207] 17 p2652 N84-26958
Specifications for a low capacity SCPC FM Earth station
[INPE-2944-NTE/208] 17 p2652 N84-26959

EARTH TIDES
Computing tides, nutations and tidally-induced variations in the Earth's rotation rate for a rotating, elliptical Earth
07 p1030 N84-16675
Earth tides 10 p1520 N84-19951
Changes in Earth's rotation rate caused by zonal tide and their manifestations in atmospheric pressure field
20 p3224 N84-30487
Omnidirectional fiber optic tiltmeter
[DE84-011109] 20 p3300 N84-30959
Observations of long-period motions of the Earth at the South Pole 21 p3440 N84-31823

EARTH-MARS TRAJECTORIES
Interplanetary mission design handbook. Volume 1, part 2: Earth to Mars ballistic mission opportunities, 1990-2005
[NASA-CR-173306] 09 p1260 N84-18226

EARTHQUAKE DAMAGE
Natural hazards photograph catalog, key to geophysical records documentation no. 20
[PB83-250415] 04 p0557 N84-13674
Tsunami warning system discussed at seismologists' meeting 18 p2859 N84-28154
Stronger direction needed for the National Earthquake Program
[GAO/RCED-83-103] 20 p3240 N84-30570
Japan Sea central region tsunami of 26 May 1983. A reconnaisance report
[PB84-194703] 21 p3451 N84-31901

EARTHQUAKE RESISTANCE
System identification of structures with joint rotation
03 p0358 N84-12330

EARTHQUAKE RESISTANT STRUCTURES
Lateral-torsional response of structures subjected to seismic waves
[PB83-239582] 04 p0516 N84-13390
Earthquake response considerations of broad liquid storage tanks
[PB83-251215] 04 p0516 N84-13393
Seismic behavior of active beam links in eccentrically braced frames
[PB84-119676] 09 p1297 N84-18480
Optimal design of friction-braced frames under seismic loading
[PB84-119288] 09 p1335 N84-18714
Investigation of the earthquake behavior of the research reactor FRJ-2 (DIDO)
[JUEL-SPEZ-222] 12 p1848 N84-22047

EARTHQUAKES
Preliminary analysis of the seismic vulnerability of selected buildings at Fort Ord, California using the rapid eismic analysis procedure
[AD-A130924] 01 p0057 N84-10372
Stressing processes associated with great crustal earthquakes at plate boundaries
02 p0246 N84-11612
Crustal deformation, the earthquake cycle, and models of viscoelastic flow in the asthenosphere
[NASA-TM-85117] 03 p0407 N84-12662
Microearthquakes induced during hydraulic fracturing at the Fenton Hill HDR site: The 1982 experiments
[DE83-014191] 03 p0408 N84-12672
Microseismic monitoring for evidence of geothermal heat in the capital district of New York
[PB83-248807] 04 p0556 N84-13659
Site-dependent inelastic response spectra
06 p0862 N84-15620
Interpretation of near-source ground motion and implications 06 p0876 N84-15697
Constraints on the Earth's anelastic and aspherical structure from antipodal surface waves
06 p0876 N84-15700
Effective use of earthquake data
[AD-A134077] 06 p0878 N84-15712
State-of-the-Art for assessing earthquake hazards in the United States. Report 20: The contribution of directivity focusing to earthquake intensities
[AD-A132893] 06 p0878 N84-15716
Telemetered seismic network--'System 768'
[AD-A133143] 07 p0963 N84-16245
Combination of earthquake direction effects
[DE84-001848] 07 p1034 N84-16709
Homogeneous magnitude system of the Eurasian continent: S and L waves
[PB84-101161] 08 p1188 N84-17744
Summary of earthquake intensity file: A computerized file of the effects of earthquakes in the United States
[PB84-101443] 08 p1189 N84-17745
A renormalization group model for the stick-slip behavior of faults
[NASA-CR-173362] 09 p1344 N84-18782
Study of seismic response at Stations 6 and 7, El Centro Strong Motion Array, Imperial Valley, California
[PB84-119924] 09 p1346 N84-18795
Laboratory glassware rack for seismic safety
[NASA-CASE-ARC-11422-1] 11 p1657 N84-20808
Earthquakes in the United States, January - March 1982
[USGS-CIRC-896-A] 11 p1677 N84-20945
The upper mantle beneath the Cascade Range: A comparison with the Gulf of California
[NASA-CR-175428] 11 p1681 N84-20970
Tectonic deformation of the Andes and the configuration of the subducted slab in central Peru: Results from a micro-seismic experiment
[NASA-CR-175445] 11 p1681 N84-20972
Spectral analyses of high-frequency Pn, Sn phases from very shallow focus earthquakes
[AD-A137778] 11 p1681 N84-20973
Summary of workshops concerning regional seismic source zones of parts of the conterminous United States convened by the US Geological Survey 1979 - 1980, Golden, Colorado
[USGS-CIRC-898] 14 p2174 N84-24025
Earthquakes in the United States, April - June 1982
[USGS-CIRC-896-B] 14 p2175 N84-24026
Strong motion program report
[USGS-CIRC-914] 14 p2175 N84-24028
Discussion of the design of satellite-laser measurement stations in the eastern Mediterranean under the geological aspect. Contribution to the earthquake prediction research by the Wegener Group and to NASA's Crustal Dynamics Project
[NASA-TM-77412] 14 p2175 N84-24031
Proceedings of the 12th Joint Panel Conference of the US-Japan Cooperative Program in Natural Resources: Wind and Seismic Effects
[PB84-167758] 15 p2318 N84-24911
Southern Great Basin seismological data report for 1981 and preliminary data analysis
[DE84-005687] 15 p2369 N84-25213
Dynamic analysis of fluid-structure systems
[PB84-162916] 16 p2478 N84-25887
Magnetohydrodynamic generator helps predict earthquakes 17 p2700 N84-27199
Descriptive statistical model of earthquake focal radiation and its application in evaluating short-period strong movement 17 p2700 N84-27200
Dicrepancies in kinematic parameters of earthquakes according to observations by regional and world networks of stations 17 p2702 N84-27213
New variant of evaluation of predicted petroleum and as reserves on genetic basis 17 p2703 N84-27219
Determining parameters of radiating focus from amplitude spectra of body waves
17 p2704 N84-27222
Emission effects of memory in rocks
17 p2705 N84-27227
Hydrogeological and hydrometeorological precursors of Ashkhabad catastrophic earthquake
17 p2705 N84-27228
Algorithm for determining coordinates of hypocenters of near earthquakes and seismic wave propagation velocity in layer 17 p2706 N84-27235
Effects of lateral heterogeneities on the propagation, scattering, and attenuation of the seismic waves and the characterization of the seismic source
[AD-A140595] 17 p2727 N84-27359
Procedures for dealing with seismically induced settlements
[AD-A140775] 17 p2728 N84-27361
Tsunami warning system discussed at seismologists' meeting 18 p2859 N84-28154
Faults and nature of seismic discontinuities in continental crust section 18 p2860 N84-28161
Strong earthquake spatial-temporal correlations
18 p2860 N84-28162
Vertical movements and magnetic variations before earthquakes 18 p2860 N84-28163
Relationship between residual displacements, strains and tilts of Earth's surface and earthquake focus characteristics 18 p2862 N84-28174
High precision measurements in crustal dynamic studies
[NASA-CR-173680] 18 p2879 N84-28279
Concrete behavior under dynamic tensile-compressive load
[AD-A141735] 19 p3036 N84-29255
Yearbook of the Bureau of Mineral Resources, Geology and Geophysics, Canberra, 1 July 1982 - 30 June 1983
[BMR-83] 19 p3037 N84-29266
Earthquake hazards 19 p3038 N84-29270
The seismological investigations of the World Ocean: The state of the problem 19 p3059 N84-29412
Dominant depth of sources in the Kuril-Kamchatka earthquake focal zone from observations by surface and bottom stations 19 p3060 N84-29419
The seismicity of the continental slope of the Kuril trench from the OBS observations 19 p3061 N84-29420
Seismicity of the North-Eastern Sakhalin shelf
19 p3061 N84-29422
Seismicity of Iceland and the adjoining region of the Atlantic Ocean 19 p3061 N84-29423
Seismic response for multicomponent earthquakes
[PB84-193747] 20 p3204 N84-30354
Crustal deformation and earthquakes
20 p3220 N84-30457
Developments of research on prediction of earthquakes, tsunami and volcanic eruptions in Far East
20 p3224 N84-30485
Seismicity of the Paradox Basin and the Colorado Plateau interior
[DE84-011620] 20 p3228 N84-30516
Stronger direction needed for the National Earthquake Program
[GAO/RCED-83-103] 20 p3240 N84-30570
MULAP4: A multi-linear analysis program for ground motion studies of horizontally layered systems
[PB84-182815] 20 p3243 N84-30591
Seismicity and crustal structure studies of southern California: Tectonic implications from improved earthquake locations 21 p3439 N84-31819
Japan Sea central region tsunami of 26 May 1983. A reconnaisance report
[PB84-194703] 21 p3451 N84-31901
Geology, hydrology, and mineral resources of crystalline rock areas of the northeastern United States
[DE84-013672] 22 p3614 N84-32901
The shear wave velocity structure of the lithosphere in central and northern California 23 p3795 N84-34063
Strain release along ocean transform faults
24 p3918 N84-34804

EAST GERMANY
East Europe report: Science and technology
[JPRS-ESA-84-012] 14 p2133 N84-23784

EBF
U EXTERNALLY BLOWN FLAPS

EBR-2 REACTOR
U EXPERIMENTAL BREEDER REACTOR 2

EBULLITION
U BOILING

ECCENTRIC ORBITS
Inclined geosynchronous satellites
19 p3119 N84-29620

ECCENTRICITY
Lateral-torsional response of structures subjected to seismic waves
[PB83-239582] 04 p0516 N84-13390
Seismic behavior of active beam links in eccentrically braced frames
[PB84-119676] 09 p1297 N84-18480
Interaction between local and overall buckling modes in axially stiffened cylindrical shells
[UTIAS-247] 09 p1328 N84-18674
Orbital eccentricity in a logarithmic potential
09 p1414 N84-19249

ECCENTRICS
Displacement angle relation for the cross crank mechanism: An exact kinematic measure synthesis
[WTHD-155] 12 p1823 N84-21886

ECHELETTE GRATINGS
A high dispersion spectral analysis of three pre-main sequence stars 16 p2576 N84-28532

ECHELON FAULTS
U GEOLOGICAL FAULTS

ECHO SUPPRESSORS
Parametric and nonparametric Fast Kalman echo cancellation 13 p1967 N84-22901

ECHOCARDIOGRAPHY
Echocardiography in the expert examination of flying personnel 11 p1700 N84-21090
Use of the Doppler ultrasound method to evaluate the rate of blood flow in children with patent ductus arteriosus
[ISSN-0208-5658] 19 p3064 N84-29441

ECHOES
NT AURORAL ECHOES
NT CLUTTER
NT RADAR ECHOES
NT SIGNAL REFLECTION
Computer-based ultrasonic multiple-frequency pulse-echo test system
[AD-A132227] 04 p0595 N84-13926

A determination of the charge state of energetic magnetospheric ions by the observation of drift echoes
[AD-A143181] 22 p3623 N84-32954

ECLIPSES
NT SOLAR ECLIPSES
Long life communication satellites: Electric power supply during the eclipse period
[NASA-TM-77351] 07 p0965 N84-16253
Determination of the Io heat flow. 1: Eclipse observations
[NASA-CR-173631] 17 p2774 N84-27614

ECLIPSING BINARY STARS
NT DWARF NOVAE
Eclipse mapping of accretion disks in cataclysmic binaries 04 p0618 N84-14080
Determination of individual temperatures and luminosities in eclipsing binary star systems
[AD-A134182] 06 p1244 N84-18133
The K2-Dwarf V471 TAU: A stellar version of solar variability 17 p2779 N84-27647
Optically-thick, highly-variable plasma in interacting binaries 24 p3980 N84-35211
A study of mass accretion in Algol from high resolution IUE spectra 24 p3980 N84-35213
Observed particularities during the eclipse of Epsilon Aurigae 24 p3980 N84-35214
Egress spectra of the new eclipsing supergiant 22 Vulpeculae 24 p3980 N84-35215

ECLIPTIC
Solar cycle evolution of the solar wind in three dimensions 03 p0469 N84-13090
Solar wind variations in the 60-100 year period range: A review 03 p0469 N84-13092

ECOLOGICAL SYSTEMS
U ECOLOGY

ECOLOGY
NT COASTAL ECOLOGY
Use of remote sensing methods for the ecological mapping project of the European community 03 p0395 N84-12580
Development of a data base for carbon dioxide releases resulting from conversion of land to agricultural uses
[DE83-015728] 03 p0402 N84-12626
Survey of water quality and flow in Maryland coastal zone streams: A data report
[PB83-249375] 04 p0556 N84-13660
Life histories and monitoring strategies: Some lessons from field experience
[DE83-016164] 04 p0571 N84-13763
Methodology for the objective validation of model performance, with an application to atmospheric transport models
[DE83-015693] 06 p0875 N84-15693
Climate-chemistry connection
[DE84-001950] 06 p0882 N84-15739
A preliminary survey of plankton and periphyton in the Turn Barge Canal and basin area of Kennedy Space Center, Florida 06 p0928 N84-16027
Modeling SO2 effects on the productivity and growth of plants
[DE83-010259] 07 p1027 N84-16655
Can we delay a greenhouse warming
[DE84-900198] 07 p1027 N84-16658
Plant waste processing on a solid substrate for a biological life-support system for man 07 p1046 N84-16786
Extremely Low Frequency (ELF) communications system ecological monitoring program: Plan and summary of 1982 progress
[AD-A135482] 08 p1144 N84-17445
Determination of Cr(6) and Cr(3) by ICP
[DE83-016627] 10 p1457 N84-19515
Riparian habitat on the Humboldt River, Deeth to Elko, Nevada
[E84-10116] 14 p2167 N84-23976
USSR report. Life sciences: Biomedical and behavioral sciences
[JPRS-UBB-84-007] 14 p2250 N84-24515
Man and the biosphere program
[GPO-28-292] 15 p2366 N84-25193
Arctic Research and Policy Act of 1983
[GPO-171] 15 p2419 N84-25527
Differential weights for samples and attributes in the ordination program DECORANA and the classification program TWINSPAN (Hill, 1979) 17 p2756 N84-27494
Analysis of metals in atmospheric particules for spectrophotometry of atomic absorption 18 p2877 N84-28269
In-stream distribution and hydraulic and ecological effects of volcanic ash from Mount St. Helens eruption
[PB84-168382] 20 p3230 N84-30526
Vertebrate behavior and ecology
[DE84-007318] 20 p3257 N84-30873
Information Center Complex publications and presentations, 1971-1982
[DE84-010603] 20 p3315 N84-31055
Inventory of numeric data for carbon dioxide research, revision 1
[DE84-013683] 21 p3449 N84-31881
Investigation of texturing functions. Application to ecographical zoning and to mapping land use in a sloping basin: The Aveyron
[CESR-83-1089] 23 p3784 N84-34001
Catalog of existing published periodicals of INPE, Volume 7
[INPE-2886-NTE/206] 23 p3834 N84-34320

ECONOMETRICS
Systems dynamics: Recent technical advances and current projects
[INPE-2846-PRE/388] 02 p0286 N84-11874
Determining cost and training effectiveness tradeoffs for trainer design: Test of an experimental model
[AD-P003455] 21 p3509 N84-32232

ECONOMIC ANALYSIS
Synthetic fuels from US oil shales: A technical and economic verification of the HYTORT PROCESS
[DE83-005440] 01 p0053 N84-10345
Methodology for integration of HVDC links in large ac systems. Phase 1: Reference manual
[DE83-902302] 01 p0073 N84-10476
Technical and economic investigations of a low-temperature Rankine-cycle heat engine
[DE83-016757] 01 p0091 N84-10596
Energy efficient engine: Flight propulsion system, preliminary analysis and design update
[NASA-CR-167980] 02 p0179 N84-11170
Domestic scheduled air transport for the year 2000. Financial and capacity related effects of supply alternatives, considering, also, the cooperation with high speed rail transport services — West Germany
[DFVLR-FB-83-03] 03 p0328 N84-12141
The Tracked Wing In Ground-Effect (TWIG) 03 p0330 N84-12155
Economic study of long distance optical fibre links
[FUB-38-1982] 03 p0443 N84-12908
Programmer's manual for the fire safety evaluation system cost minimizer computer program
[PB83-251447] 04 p0517 N84-13395
Evaluating proposed improvements of public rangelands
[PB83-251124] 04 p0556 N84-13669
Economic benefits of operational environmental satellites
[PB83-252932] 04 p0569 N84-13748
The linear hierarchical model and its application in the econometric analysis
[CSIR-TWISK-274] 04 p0587 N84-13875
Deregulating the airlines: An economic analysis
[PB83-250019] 04 p0617 N84-14070
The 8th FAA Forecast Conference Proceedings
[AD-A132646] 05 p0626 N84-14114
Technical and economic analysis of the planned visual display terminal employment for the Stock Point Logistics Integrated Communications Environment (SPLICE)
[AD-A133642] 05 p0719 N84-14711
Keynesian chaos
[AD-A132836] 05 p0760 N84-14987
Establishment and discontinuance criteria for airport traffic control towers
[AD-A133451] 06 p0785 N84-15141
Production networks: A dynamic model of production
[AD-A133571] 06 p0933 N84-16065
Establishment and discontinuance criteria for precision landing systems
[AD-A135606] 09 p1254 N84-18185
Economic analysis model program user's manual (Burroughs version)
[AD-A135950] 09 p1405 N84-19182
On-site fuel cell power plant technology development program
[PB84-125095] 10 p1538 N84-20076
Preliminary results in implementing a model of the world economy on the CYBER 205: A case of large sparse nonsymmetric linear equations 10 p1561 N84-20228
Historical inflation program. A computer program generating historical inflation indices for Army aircraft: Revision
[AD-A137670] 11 p1599 N84-20474
Heavy-duty fuel economy program phase 5: Investigation of a heavy-duty 3-way catalyst system
[PB84-135722] 11 p1639 N84-20715
Air/molten salt direct-contact heat-transfer experiment and economic analysis
[DE84-000080] 11 p1675 N84-20928
Biothermal conversion of biomass and wastes to methane
[DE84-006052] 11 p1675 N84-20931
Stirling engine applications study
[PB84-148055] 12 p1823 N84-21888
Economic implications of current systems 12 p1838 N84-21982
Fiscal and monetary policy in a general equilibrium model
[AD-A138502] 12 p1920 N84-22510
Proceedings of the Federal Acquisition Research Symposium with Theme: Government, Industry and Academe: Synergism for Acquisition Improvement
[AD-A137700] 13 p2049 N84-23293
Economic production rate study
[AD-P002793] 13 p2057 N84-23340
Tactical buying decisions for strategic petroleum reserve spot procurements: The tunnel theory
[AD-P002812] 13 p2060 N84-23358
USSR report: Science and technology policy
[JPRS-UST-84-004] 13 p2064 N84-23387
Incentives for new production discussed 13 p2064 N84-23388
Use of economic mechanisms in managing scientific and technical progress 13 p2064 N84-23389
USSR report: Science and technology policy
[JPRS-UST-84-007] 13 p2065 N84-23391
Technical and economic indicators for industrial technological institutes 13 p2065 N84-23392
West Europe report: Science and technology
[JPRS-WST-84-013] 14 p2118 N84-23694
Now: An initial approach to collection of major materiel systems actual costs
[AD-A139845] 15 p2416 N84-25505
SAMICS: Engineering/economic model to predict costs 15 p2430 N84-25591
DOE-2, BDL summary, version 2.1B
[LBL-8688-REV-3] 16 p2519 N84-26170
Investment justification of robotic technology in aerospace manufacturing
[AD-A140782] 17 p2598 N84-26651
P/M superalloys: A troubled adolescent?
[NASA-TM-83623] 17 p2622 N84-26785
Economics of installation of solar heating plants 17 p2641 N84-26896
Space station needs, attributes, and architectural options: Brief analysis
[NASA-CR-173695] 18 p2803 N84-27791
Space station needs, attributes and architectural options: Architectural options and selection
[NASA-CR-173694] 18 p2804 N84-27793
A study of space station needs, attributes and architectural options. Volume 1: Executive summary
[NASA-CR-173705] 18 p2805 N84-27803
A study of space station needs, attributes and architectural options. Final briefing: Cost working group discussion session
[NASA-CR-173713] 18 p2806 N84-27810
Space station needs, attributes and architectural options: Mission requirements
[NASA-CR-173691] 18 p2806 N84-27817
Summary of photovoltaic system performance models
[NASA-CR-173737] 18 p2870 N84-28220
National airspace review benefits and costs
[FAA-AT-84-1] 19 p2961 N84-28765
The performance of civil airport pavement with lime-cement-flyash base course
[FAA-PM-84-10] 19 p2969 N84-28815
Laser-assisted solar cell metallization processing
[NASA-CR-173763] 19 p3050 N84-29355
SSME modifications for on-demand launch vehicles 20 p3136 N84-29914
Photovoltaic concentrators: Present status and future role
[DE84-005520] 20 p3235 N84-30532
Stronger direction needed for the National Earthquake Program
[GAO/RCED-83-103] 20 p3240 N84-30570
Chronic effects of repeated mechanical trauma to the skin: A description of the problem in the workplace
[PB84-181767] 20 p3261 N84-30695
Historical research and development inflation indices for Army fixed and rotor winged aircraft
[AD-A142943] 21 p3323 N84-31085
Activities at the Brookhaven National Laboratory integrated test bed for advanced hydrogen technology
[DE84-010226] 21 p3374 N84-31409
A pioneer deep ocean mining venture
[PB84-199645] 21 p3433 N84-31780
Wind energy: a brief assessment
[DE84-012208] 21 p3434 N84-31788
Wind energy systems for electric utilities: A synthesis of value studies
[DE84-004520] 21 p3435 N84-31796
Ergonomic analysis of human operation of video terminal 21 p3454 N84-31918
CSIR activities in South Africa
[ISBN-0-7988-3029-8] 21 p3527 N84-32340
Shuttle detached spacecraft
[AD-A143320] 22 p3541 N84-32417

Parts on demand: Evaluation of approaches to achieve flexible manufacturing systems for Navy parts on demand, volume 1
[AD-A143248] 22 p3604 N84-32830
Oversight on the Federal Aviation Administration fiscal year 1985 research, engineering and development budget request
[GPO-34-924] 22 p3676 N84-33302
The ESA technological research programs 24 p3903 N84-34717
Computers, microprocessors, economy of USSR 24 p3944 N84-34970

ECONOMIC DEVELOPMENT
Stronger union of science and industry demanded 01 p0157 N84-11037
Improvements noted in patent information system for CEMA member-countries 01 p0158 N84-11038
Organizational improvements in CEMA scientific, technical cooperation sought 01 p0158 N84-11039
Improved management of scientific progress in Armenia urged 01 p0158 N84-11041
USSR report: Political and sociological affairs, no. 1389. Chapters from Brezhnev's Reminiscences
[JPRS-83124] 14 p2112 N84-23658
Scientology and management of science and technology
[AD-A139084] 14 p2246 N84-24487
Policy implications of information technology
[PB84-183219] 20 p3316 N84-31060
Technology, innovation and regional economic development. Background paper 2: Encouraging high-technology development
[PB84-180181] 21 p3522 N84-32310
International implications of proposed sale of LANDSAT satellite
[GPO-31-310] 23 p3763 N84-33849
Sale of LANDSAT could adversely affect international relations
[H-REPT-98-1108] 23 p3763 N84-33850
Review of the National Aeronautics and Space Act of 1958, as amended
[GPO-38-705] 24 p3970 N84-35134

ECONOMIC FACTORS
Economic competitiveness of fuel cell onsite integrated energy systems
[NASA-TM-83403] 01 p0102 N84-10665
Technology and East-West trade: An update
[PB83-234955] 01 p0163 N84-11068
Technology assessment of productive conservation in urban transportation
[DE83-012179] 01 p0163 N84-11070
Report on development, installation of industrial robots 02 p0205 N84-11339
US weather satellites and services
[GPO-25-753] 03 p0340 N84-12208
To quench our thirst: The present and future status of freshwater resources of the United States, part 3
[DE83-016791] 03 p0401 N84-12625
Economic production of aircraft structures made of fiber reinforced materials
[MBB-UT-23-82-OE] 05 p0625 N84-14109
Air pollution, environmental policy, and economics in the Federal Republic of Germany
[GHK-07] 05 p0701 N84-14601
Airframe technology for aircraft energy efficiency --- economic factors
[NASA-TM-85749] 09 p1249 N84-18154
Economic cases of the Civil Aeronautics Board, Volume 101, April 1983 to May 1983
[PB84-127695] 09 p1405 N84-19183
Economic cases of the Civil Aeronautics Board, Volume 102, June 1983 to July 1983
[PB84-127703] 09 p1405 N84-19184
The supplier: Constraints and prospects — civil air transport 10 p1424 N84-19311
The technical, economic and institutional feasibility of customer premises Earth stations for INTELSAT service
[PB84-128404] 10 p1484 N84-19703
Polymer Science and Standards Divisions report, 1983 14 p2130 N84-23773
Profitability improvement of projects by early consideration of life cycle cost reduction
[MBB-UR-620-83-O] 14 p2247 N84-24495
Optimization of two-coordinate surface radar station by combination of technical and economic indices 17 p2630 N84-26825
The economics of computerized information dissemination 18 p2946 N84-28678
Lead 19 p2992 N84-28959
Fluorspar 19 p3053 N84-29375
Definitions of noise and noise pollution 19 p3069 N84-29466
The changing airline industry: A status report through 1982
[GAO/RCED-83-179] 20 p3127 N84-29858
CO2 forecasting and control: A mathematical approach
[DE84-013454] 21 p3449 N84-31882
Hourly values of electricity and heat consumption and electricity supply conditions. Fundamentals of Block Heating Power Station (BHPS) construction — economic aspects 23 p3792 N84-34048
NASA authorization for fiscal year 1985
[GPO-32-363] 24 p3969 N84-35133
Review of the National Aeronautics and Space Act of 1958, as amended
[GPO-38-705] 24 p3970 N84-35134

ECONOMIC IMPACT
Contributions of academic institutes to effectiveness of new technology in the Georgian SSR 01 p0056 N84-10363
Scientific, technical cooperation among CEMA member-countries urged 01 p0157 N84-11036
Energy use: The human dimension
[DE84-001405] 05 p0714 N84-14676
Chromium
[PB84-100882] 08 p1136 N84-17385
A survey of gas-side fouling in industrial heat-transfer equipment
[NASA-CR-173489] 12 p1841 N84-22003
Employment changes resulting from the award of contracts in labor surplus areas
[AD-P002834] 13 p2063 N84-23379
Prerequisites for scientific-technical progress enumerated 13 p2065 N84-23395
Economic impact of fuel properties on turbine powered business aircraft 14 p2109 N84-23646
Impact of robots and computers on the work force of the 1980's
[GPO-31-912] 22 p3603 N84-32826
Agriculture weather services
[GPO-27-913] 22 p3624 N84-32966
Effects of expiration of the Federal energy tax credit on the National Photovoltaics Program
[NASA-CR-173900] 22 p3675 N84-33299
NASA authorization for fiscal year 1985
[GPO-32-363] 24 p3969 N84-35133

ECONOMICS
NT DEMAND (ECONOMICS)
Scientist discusses problems in introducing new technology 01 p0055 N84-10357
Improved planning for local territorial units urged 01 p0055 N84-10360
Contributions of academic institutes to effectiveness of new technology in the Georgian SSR 01 p0056 N84-10363
Computational experience in solving equilibrium models by a sequency of linear complementarity problems
[DE83-011189] 01 p0124 N84-10811
Two types of values and their assessment by the collective interest
[DE83-012064] 03 p0460 N84-13031
Avduyevskiy on accomplishments and prospects of cosmonautics 05 p0634 N84-14168
Thermal and electric energy and desalination with a salt gradient solar pond
[DE84-900416] 08 p1181 N84-17691
Technical and economic feasibility of Stirling cycle industrial heat pumps
[DE84-005486] 11 p1653 N84-20793
Small wind systems field evaluation. Volume 2: Institutional issues
[DE84-006913] 12 p1844 N84-22024
Export trade: Big business for the small entrepreneur
[AD-P002811] 13 p2059 N84-23357
USSR report: Machine tools and metalworking equipment
[JPRS-UMM-84-008] 14 p2155 N84-23913
Assessment of fuel cell propulsion systems
[DE84-006323] 15 p2420 N84-25536
The decision for the optimal price in competitive bidding: The case of a Korean construction company
[AD-A140556] 17 p2770 N84-27585
Integrated Application of Active Controls (IAAC) technology to an advanced subsonic transport project: Final ACT configuration evaluation
[NASA-CR-3519] 18 p2792 N84-27723
Designing antennas to price; or the economics of antenna design
[AD-P003412] 19 p3015 N84-29116
Economics of hydrogen production: The next 25 years
[DE84-007279] 21 p3374 N84-31414
The effect of current density on anode depolarization economics
[DE84-010465] 21 p3392 N84-31524
Directory of computerized data files, 1984
[PB84-160126] 21 p3520 N84-32303
Economic cases of the Civil Aeronautics Board, volume 104, October - November 1983
[PB84-209287] 22 p3533 N84-32370
New techniques for adjusting reference factors
[DE84-012649] 22 p3675 N84-33300

ECONOMY
Measures to step up practical use of scientific work discussed 01 p0054 N84-10350
Effects of science, technology on structure of production process 01 p0054 N84-10351
Scientists discuss increased production with fewer workers 01 p0055 N84-10356
Preliminary results in implementing a model of the world economy on the CYBER 205: A case of large sparse nonsymmetric linear equations 10 p1561 N84-20228
Science in the European Economic Community: A self-assessment and a detailed plan of action
[AD-A139078] 14 p2247 N84-24492
Activities in applied systems analysis 21 p3475 N84-32026
Polymers as substitutes for metal and lumber 24 p3867 N84-34510

ECOSYSTEMS
Carbon in live vegetation of major world ecosystems
[DE83-015328] 01 p0101 N84-10654
Effects of acid precipitation and natural processes on cation leaching from 4 diverse forest ecosystems
[DE83-015759] 01 p0103 N84-10671
Direct biological effects of increased atmospheric carbon dioxide levels
[PB83-224360] 01 p0115 N84-10749
LANDSAT 4 investigations of thematic mapper and multispectral scanner applications
[E84-10017] 02 p0237 N84-11554
Ecological models of the Mississippi Deltaic Plain Region: Data collection and presentation
[PB83-239012] 02 p0245 N84-11604
Limnology, second edition
[DE83-016792] 03 p0402 N84-12627
Detecting long-term ecological effects in forests and food chains
[DE83-003469] 03 p0406 N84-12655
Impact of enhanced solar UV-B radiation upon the marine ecosystem
[PB83-247411] 04 p0560 N84-13694
Fates and biological effects of polycyclic aromatic hydrocarbons in aquatic systems
[PB83-250191] 04 p0561 N84-13698
Extremely Low Frequency (ELF) communications system ecological monitoring program: Plan and summary of 1982 progress
[AD-A135482] 08 p1144 N84-17445
Air pollution effects on terrestrial ecosystems
[PB84-128313] 08 p1184 N84-17712
Arctic Terrestrial Environmental Research Programs of the Office of Energy Research, Department of Energy: Evaluations and recommendations. Appendix B: Components of an Arctic Terrestrial Environmental Research Program
[PB84-129766] 11 p1672 N84-20913
Vegetation response to carbon dioxide research plan
[DE84-006219] 11 p1676 N84-20934
CO/sub 2 climate research plan
[DE84-005461] 11 p1688 N84-21008
Acid rain information book
[DE83-013693] 12 p1845 N84-22028
Identifying environmental features for land management decisions
[E84-10125] 14 p2168 N84-23984
Aerial photography for ecological site mapping 14 p2169 N84-23990
DISCRIM: A modification of TWINSPAN (Hill, 1979) to construct simple discriminant functions and to classify attributes, given a hierarchial classification of samples 17 p2756 N84-27493
Biogeochemical considerations 20 p3217 N84-30436
Inland aquatic resources and biogeochemical cycles 20 p3217 N84-30438
Land biology 20 p3218 N84-30440
In-stream distribution and hydraulic and ecological effects of volcanic ash from Mount St. Helens eruption
[PB84-169382] 20 p3230 N84-30526
Air pollution effects on aquatic ecosystems: Summary of a symposium
[PB84-185214] 20 p3239 N84-30562
NASA pilot land data system 21 p3427 N84-31741
Climatic change and streamflow in the southwest
[DE84-012658] 21 p3432 N84-31776
Computer implementation of a globally averaged model of the world carbon cycle
[DOE/NBB-0062] 23 p3793 N84-34055

ECS
U EUROPEAN COMMUNICATIONS SATELLITE

EDDIES
U VORTICES

EDDINGTON APPROXIMATION
A spectrophotometric study of temporal variations in the optical spectrum of SS 433 21 p3522 N84-32312
EDDY CURRENTS
Electrical resistances of molten alloys of iron containing carbon, boron and phosphorus
[BLL-M-35214-(5828.4)] 01 p0041 N84-10263
Relationships between strength, electrical conductivity, and density for oxidized PGX graphite
[DE83-016184] 04 p0507 N84-13325
Computation of the temperature distribution due to eddy-currents in the wall of a power transformer
[PB83-217273] 06 p0831 N84-15410
A feasibility study of electromagnetic DE-spin system for Earth orbiting satellites 06 p0930 N84-16040
Design study of magnetic eddy-current vibration suppression dampers for application to cryogenic turbomachinery
[NASA-CR-173273] 07 p1012 N84-16562
Review of progress in quantitative NDE
[DE84-001906] 07 p1014 N84-16575
JDF-1 small light-weight electric eddy current oscillator
[AD-A137572] 11 p1646 N84-20761
Movement mechanism of solitary synoptic eddies 17 p2707 N84-27239
EDDY DIFFUSION
U TURBULENT DIFFUSION
EDDY VISCOSITY
A fully vectorized numerical solution of the incompressible Navier-Stokes equations
[NASA-CR-174496] 04 p0531 N84-13491
Global pressure relaxation procedure for laminar and turbulent incompressible flows with strong interaction and separation 05 p0683 N84-14490
Introduction to turbulent shear flows 06 p0837 N84-15449
Improved turbulence models based on large eddy simulation of homogeneous, incompressible turbulent flows
[NASA-CR-166541] 08 p1156 N84-17528
Generation of mesoscale hydrodynamic phenomena by the Grappler and Whiting Seamounts, southeast of Puerto Rico
[PB84-148196] 12 p1863 N84-22140
Numerical simulation of shock/turbulent boundary layer interactions over 2-D compression corners 17 p2666 N84-27000
EDEMA
Ventilation and ventilatory control in high altitude pulmonary edema and acute mountain sickness
[AD-A135941] 10 p1548 N84-20145
Work at high altitude: A clinical and physiological study at the United Kingdom Infrared Telescope, Mauna Kea, Hawaii
[REPT-11] 12 p1864 N84-22147
EDGE DISLOCATIONS
Fracture toughness processes
[DE84-007244] 13 p2002 N84-22989
Edge Stabilized Ribbon (ESR); stress, dislocation density and electronic performance 18 p2937 N84-28630
Nonlocal continuum theory for dislocation and fracture
[AD-A142538] 20 p3202 N84-30340
Influence of choice of pair-interaction potential on results of modelling an edge dislocation in Alpha-iron
[BLL-M-35682-(5828.4)] 22 p3553 N84-32499
EDGE LOADING
Comparison between empirical and calculated stress intensity factors of hole edge cracks
[VTH-LR-376] 10 p1518 N84-19940
Free edge strain concentrations in real composite laminates: Experimental-theoretical correlation
[NASA-CR-173818] 19 p2986 N84-28919
Hybrid stress reduced-Mindlin elements for thin multilayer plates with application to edge contact problems 22 p3608 N84-32857
EDGES
NT BLUNT TRAILING EDGES
NT LEADING EDGES
NT SHARP LEADING EDGES
NT TRAILING EDGES
Finding edges and lines in images
[AD-A130824] 01 p0147 N84-10967
Edge-sealed PLZT shutters for operation in high-humidity/temperature environments
[DE83-012627] 01 p0148 N84-10971
Wide range weight functions for the strip with a single edge crack
[NASA-TM-83478] 02 p0231 N84-11512
Three-dimensional feature extraction
[AD-A131333] 02 p0294 N84-11926
The propagation and arrest of an edge crack in an elastic half-space under conditions of anti-plane shear: Analytical and numerical results 04 p0547 N84-13604
Acoustic diffraction by an impedance-covered edge
[AD-A133266] 06 p0909 N84-15904
Edge- and contour detection for correction of low-pass filtered images
[PB83-217489] 06 p0918 N84-15969
Automatic connection of map edges for adjacent CIPS data bases — computer program 07 p1019 N84-16613
Image analysis with use of range information
[FOA-C-30335-E1] 08 p1222 N84-17979
The propagation and arrest of an edge crack in an elastic half-space under conditions of anti-plane shear: Analytical and numerical results
[AD-A137275] 10 p1517 N84-19930
An improved version of the chamfer matching algorithm — for image processing
[FOA-C-30344-E1] 10 p1572 N84-20303
Comparison of the stress concentration factor of a hole near a circular edge notch with an engineering estimate
[AD-A137691] 11 p1668 N84-20882
Image-plane processing for improved computer vision 12 p1904 N84-22404
Image filtering with Boolean and statistical operators
[AD-A138421] 12 p1908 N84-22428
An assessment of the reliability of edge connectors — circuit boards
[ERA-82-22] 13 p1985 N84-22888
Numerical solution of rectangular anisotropic plates in flexure with free edges
[NPL-DMA(A)-71] 15 p2346 N84-25075
Edge analyzing properties of center/surround response functions in cybernetic vision
[NASA-TM-85809] 16 p2484 N84-25927
COMEDG: A program to combine logically independent line segments into geometrically coherent lines 20 p3226 N84-30499
Resonance and edge amplification of an electric field in a plasma resonance layer and acceleration of particles at plasma inhomogeneities 21 p3483 N84-32073
EDITING
Status of auto carto at the Defense Mapping Agency
[AD-A131235] 01 p0101 N84-10653
Microcomputer scientific software series 1: The numerical information manipulation system
[PB83-263624] 05 p0731 N84-14797
Typographical terminology
[DE84-001981] 10 p1593 N84-20441
Emacs primer
[DE84-005482] 11 p1710 N84-21144
Self-teaching guide to Rand's text processor
[RAND/N-2056-RC-REV] 12 p1879 N84-22244
A syntax directed editor environment
[AD-A138009] 12 p1879 N84-22248
Publication in professional journals in science and engineering: A survey of editorial procedures and opinion
[AD-A138913] 13 p2064 N84-23385
Integrated Record Input System (IRIS) for the DOE/Technical Information Center
[DE84-008494] 18 p2945 N84-28675
Practical writing and editing techniques
[DE84-012642] 21 p3519 N84-32294
Terminal oversight: The editor and the word processor
[DE84-012648] 21 p3519 N84-32295
On-line edit users manual
[AD-A144021] 23 p3835 N84-34328
EDITING ROUTINES (COMPUTERS)
Combining testing with formal specifications: A case study
[AD-A134110] 05 p0726 N84-14764
SAGA: A project to automate the management of software production systems
[NASA-CR-173206] 07 p1054 N84-16823
Advanced edit system
[AD-A134952] 08 p1213 N84-17913
Intelligent editor/printer enhancements
[NASA-CR-170965] 09 p1364 N84-18909
Fourier-Motzkin elimination as a technique for error localization
[DE84-003309] 09 p1379 N84-19009
Emacs primer
[DE84-005482] 11 p1710 N84-21144
ADA1: An ADA subset compiler for the AFIT syntax directed programming environment
[AD-A138027] 12 p1880 N84-22251
An approach to control the evolution of software systems 13 p2025 N84-23127
Evaluating multiple coordinated windows for programming workstations 13 p2027 N84-23146
A survey of three language-independent programming environments
[MC-IW-240/83] 13 p2029 N84-23160
Tools to aid in improving software quality: Application to a structural editor
[ENST-E-83013] 16 p2544 N84-26331
On the design of an editor for the B programming language
[MC-IW-248/83] 17 p2754 N84-27484
Applications programs to facilitate use of a DBMS to store and retrieve graphics displays (INGRED 2)
[AD-A138059] 18 p2945 N84-28672
Software design issues in the implementation of hierarchical display editors 21 p3463 N84-31953
Editing by example 22 p3639 N84-33070
EDUCATION
NT FLIGHT TRAINING
NT GUNNERY TRAINING
NT MAINTENANCE TRAINING
NT PILOT TRAINING
NT SPACE FLIGHT TRAINING
Effects of behavioral objectives and instructions on earning a category task
[AD-A130386] 01 p0116 N84-10750
Extended development procedure EDeP user's manual
[AD-A131381] 01 p0116 N84-10756
USAF/SCEEE summary faculty research program, research reports, volume 1
[AD-A130769] 01 p0157 N84-11032
Training feedback handbook
[AD-A132565] 05 p0715 N84-14683
Report of the Faculty Working Group on Computers
[AD-A132706] 05 p0729 N84-14784
Evaluation results for the interactive video competency recognition system
[AD-A133052] 06 p0892 N84-15796
Classifying bugs is a tricky business
[AD-A133264] 06 p0895 N84-15813
A guideline for the planning and system requirement determination of a computer based educational system
[AD-A133529] 06 p0898 N84-15829
Artificial intelligence: An analysis of potential applications to training, performance measurement, and job performance aiding
[AD-A133592] 06 p0900 N84-15839
European Scientific Notes. Volume 37, number 9
[AD-A133558] 06 p0935 N84-16079
Radar training facility initial validation
[AD-A133220] 07 p1049 N84-16797
Overuse injuries of the lower extremities associated with marching, jogging and running. A review
[AD-A134672] 08 p1200 N84-17824
Metabolic characteristics of post-exercise ketosis: The protective effects of training 10 p1549 N84-20152
Processes of skill performance: A foundation for the design and use of training equipment
[AD-A136879] 10 p1550 N84-20160
Automated Instructional Media Selection (AIMS)
[AD-A135749] 10 p1552 N84-20168
Introduction to GEMINI
[DE84-005058] 10 p1564 N84-20248
Memory organization-based methods of instruction: A comparison with performance-oriented training
[AD-A137640] 11 p1701 N84-21098
Memory organization-based methods of instruction: Rationale and development
[AD-A137504] 11 p1702 N84-21101
Nonparametric statistics test software package
[AD-A137170] 11 p1708 N84-21132
Concerted effort for nationwide computer literacy 12 p1897 N84-22357
The Shock and Vibration Digest, volume 16, no. 3
[AD-A139707] 13 p2000 N84-22976
Report of the DOD-University forum working group on engineering and science education
[AD-A138205] 13 p2049 N84-23292
Closing the gap between R and D and application in academe to better support government and industry
[AD-P002761] 13 p2052 N84-23308
Training requirements for changing times
[AD-P002764] 13 p2052 N84-23311
Training acquisition personnel through a local college
[AD-P002766] 13 p2052 N84-23313
Dynamic spacecraft simulators in military space ground systems
[AD-P002159] 14 p2139 N84-23825
Computer aided layout of procedure information for training and job aiding
[AD-A139347] 14 p2205 N84-24236
The United States Air Force graduate student summer support program, 1983. Management report
[AD-A139363] 14 p2245 N84-24483
United States Air Force summer faculty research program, 1983. Program management report
[AD-A139366] 14 p2245 N84-24484
United States Air Force summer faculty research program, 1983, volume 1
[AD-A139403] 14 p2245 N84-24485
United States Air Force summer faculty research program, 1983, volume 2
[AD-A139404] 14 p2246 N84-24486

Understanding picture-text instructions
[AD-A139745] 15 p2382 N84-25287
Computer-managed instruction: Stability of cognitive components
[AD-A139681] 15 p2383 N84-25291
GUIDON: A computer-aided instructional program
[AD-A139999] 15 p2383 N84-25293
An internal review and operational trial of a human factors engineering self-paced course in accordance with the instructional systems development process
[AD-A140011] 15 p2385 N84-25301
Engineering programming at the Ecole Nationale Superieure des Telecommunications (ENST): Particularities and tendencies
[ENST-C-83004] 15 p2390 N84-25338
Aeromedical support of helicopter medical evacuation and rescue operations 16 p2537 N84-26289
Activities report of the Computer Department
[ENST-D-8303] 16 p2542 N84-26314
Single-pilot IFR flights and operations
[SNIAS-832-210-103] 16 p2552 N84-26374
Department of Housing and Urban Development-Independent Agencies Appropriations Bill, 1985
[S-REPT-98-506] 16 p2568 N84-26476
NASA, the first 25 years: 1958 - 1983
[NASA-EP-182] 16 p2583 N84-26563
Biofeedback methods and quality of operator's performance 17 p2740 N84-27399
Health education of population in conection with widespread use of laser radiation
17 p2742 N84-27407
A brief history of the use of simulation techniques in training and performance assessment
[AD-A140763] 17 p2746 N84-27437
Estimated effects of ionizing radiation upon military task performance: Individual combat crewmember assessment
[AD-P003255] 18 p2905 N84-28422
Computer-automated technological innovation in three manufacturing sectors
[AD-P003309] 18 p2909 N84-28450
Individualizing with Computer-Assisted Instruction (CAI): Enhancing student motivation through computer-controlled audio
[AD-P003314] 18 p2909 N84-28453
Individual differences in learning rate
[AD-P003338] 18 p2911 N84-28462
Assessment of learning abilities using rate measures
[AD-P003340] 18 p2911 N84-28463
Evaluation of the HARDMAN comparability methodology for manpower, personnel and training
[NASA-CR-173733] 18 p2915 N84-28485
Scientific and technical training in the Soviet Union
[NASA-TM-86252] 18 p2954 N84-28725
Learning about supercomputers on a microcomputer with no keyboard: A science museum exhibit
[DE84-001177] 19 p3073 N84-29496
Proceedings of the 2nd Annual Conference on Ada (Trademark) Technology
[AD-A142403] 20 p3269 N84-30745
The Army Ada (trademark) education program
[AD-P003414] 20 p3269 N84-30746
The US Army model Ada (trademark) training curriculum
[AD-P003415] 20 p3269 N84-30747
Teaching Ada (trademark) at the US Military Academy
[AD-P003418] 20 p3270 N84-30750
Experiences in teaching Ada (trademark)
[AD-P003419] 20 p3270 N84-30751
Teach Ada (trademark) as the student's first programming language?
[AD-P003422] 20 p3270 N84-30754
Operating system interface for Ada (trademark) instructors
[AD-P003433] 20 p3272 N84-30765
Ada (Registered trademark) training curriculum. Software engineering for managers. M101: Teachers exercise guide
[AD-A142429] 20 p3272 N84-30767
Ada (registered trademark) training curriculum. Ada (registered trademark) for software managers, L201. Teachers' guide: Volume 1
[AD-A142430] 20 p3272 N84-30768
Ada (registered trademark) training curriculum. Ada (registered trademark) for software managers, L201. Teachers guide: Volume 2
[AD-A142431] 20 p3272 N84-30769
Ada (Registered trademark) training curriculum. Software engineering for managers. M101: Teachers guide
[AD-A142432] 20 p3272 N84-30770
National Science Foundation, volume 1
[PB84-193234] 20 p3316 N84-31061
Ada (trade name) orientation for managers L101 teacher's guide
[AD-A141846] 21 p3465 N84-31968
Integrated Computer-Aided Manufacturing (ICAM) architecture. Part 3, Volume 6: Composite information model of 'Manufacture product' (MFG1)
[AD-A143072] 21 p3466 N84-31973
Guide to computer-based training
[DE84-012244] 21 p3466 N84-31975
Weibull analysis handbook
[AD-A143100] 21 p3475 N84-32023
European scientific notes, volume 38, no. 5
[AD-A141713] 21 p3518 N84-32285
ADA (trademark) training curriculum. Programming methodology m203 teacher's guide
[AD-A143581] 22 p3641 N84-33082
ADA (trademark) training curriculum. Basic ADA programming l202 teacher's guide, volume 1
[AD-A143584] 22 p3641 N84-33083
ADA (trademark) training curriculum. Basic ADA programming l202 teacher's guide, volume 2
[AD-A143585] 22 p3641 N84-33084
NASA Ames summary high school apprenticeship research program, 1983 research papers
[NASA-TM-85931] 22 p3684 N84-33365
NASA RECON: Course development, administration, and evaluation
[NASA-CR-173922] 23 p3834 N84-34318
Results of a questionnaire on the teaching of Computer-Aided Engineering (CAE) on undergraduate courses
[TT-8404] 24 p3937 N84-34919
Problems of improving management of use of computer technology in higher schools 24 p3940 N84-34944
East Europe report: Science and technology
[JPRS-ESA-84-033] 24 p3943 N84-34960
Delta computer network to be expanded
24 p3943 N84-34961
Ada training curriculum. Introduction to software engineering, M102. Teacher's guide: Exercises
[AD-A144237] 24 p3945 N84-34981
Ada (trademark) training curriculum. Software engineering methodologies M201 teacher's workbook
[AD-A144240] 24 p3945 N84-34982
Ada (trademark) training curriculum. Software engineering methodologies m201 teacher's guide, volume 1
[AD-A144256] 24 p3946 N84-34984
Integrated Computer-Aided Manufacturing (ICAM) architecture, part 3. Volume 7: MFG01 glossary
[AD-A144426] 24 p3947 N84-34991
Ada training curriculum. Advanced Ada topics l305 teacher's guide exercises, volume 3
[AD-A144500] 24 p3947 N84-34996

EEG (ELECTROENCEPHALOGRAMS)
U ELECTROENCEPHALOGRAPHY

EFFECTIVE PERCEIVED NOISE LEVELS
Effect of external pressure environment on the internal noise level due to a source inside a cylindrical tank
[NASA-TM-85814] 21 p3346 N84-31226

EFFECTIVENESS
NT COST EFFECTIVENESS
NT SYSTEM EFFECTIVENESS
The aerodynamics of aircraft control: A general survey in the context of active control technology
01 p0013 N84-10084
Experimental methods to determine control effectiveness in wind tunnels 01 p0013 N84-10087
Evaluation results for the interactive video competency recognition system
[AD-A133052] 06 p0892 N84-15796
Performance appraisal revisited
[AD-A132841] 06 p0932 N84-16059
Enhancing effectiveness of information retrieval systems with relational thesauri 11 p1747 N84-21399

EFFECTORS
U CONTROL EQUIPMENT

EFFECTS
Strong coupling effects on bound states in plasmas
[AD-A131661] 03 p0444 N84-12918
Estimation of latent group effects
[AD-A139299] 14 p2218 N84-24310
The effect of plasticizer on the polarizer of Poly(vinylidene fluoride) films
[AD-A140770] 17 p2626 N84-26806
Note on the displacement effect in a spinning fluid
[AD-A141599] 19 p3024 N84-29175

EFFERENT NERVOUS SYSTEMS
Magnetoencephalography
[AD-A132496] 05 p0712 N84-14668
Single trial brain electrical patterns of an auditory and visual perceptuomotor task
[AD-A135545] 09 p1362 N84-18899
Infinite dimensional stochastic differential equation models for spatially distributed neurons
[AD-A136507] 09 p1376 N84-18986
Variability of practice and the transfer of training of motor skills
[AD-A142896] 21 p3459 N84-31942
Measurement and modification of sensorimotor system function during visual-motor performance
[AD-A142919] 21 p3461 N84-31947

EFFICIENCY
NT CHARGE EFFICIENCY
NT COMBUSTION EFFICIENCY
NT COMPRESSOR EFFICIENCY
NT ENERGY CONVERSION EFFICIENCY
NT NOZZLE EFFICIENCY
NT POWER EFFICIENCY
NT PROPELLER EFFICIENCY
NT PROPULSIVE EFFICIENCY
NT THERMODYNAMIC EFFICIENCY
NT TRANSMISSION EFFICIENCY
An investigation of thermal characteristics of plate-in-tube solar receivers 01 p0101 N84-10658
Algorithms for nonlinear programming
[AD-A130903] 01 p0122 N84-10796
Computational experience with the octahedral algorithm and related results
[DE83-015834] 02 p0283 N84-11854
Assessment of energy-efficiency improvements for paint spray booths
[DE83-016660] 03 p0356 N84-12320
Charge characteristics of Ni/Fe traction cells
[DE83-014205] 03 p0367 N84-12389
Self-correction coil: Operation mechanism of self-correction coil
[DE83-016324] 03 p0367 N84-12392
Solid-oxide fuel-cell performance
[DE83-017926] 03 p0368 N84-12396
Control and operation cost optimization of the HISS cryogenic system
[DE83-017741] 04 p0515 N84-13384
RF performance of a proposed L-band antenna system 04 p0519 N84-13410
Evidence for a hot electron flux limit in laser-produced plasma experiments
[DE84-001365] 04 p0540 N84-13555
Inertial effects in laser-drive ablation
[DE84-000071] 04 p0542 N84-13566
Design and evaluation of small water turbines
[DE84-000404] 04 p0544 N84-13586
Efficiency of compressed-air systems
[DE84-002599] 05 p0863 N84-14361
Oxygen insufficiency and energy failure in brain: Uncoupling of oxidative phosphorylation at low oxygen concentration 05 p0714 N84-14681
The effects of task structures, dynamics of difficulty changes, and strategic resource allocation training on time-sharing performance
[AD-A134112] 05 p0715 N84-14685
An efficient generator of uniformly distributed random deviates between zero and one
[AD-A132851] 05 p0741 N84-14865
Determination of freeze protection heat loss from a parabolic trough solar system
[DE84-000005] 06 p0874 N84-15689
Novette pulse-power-system description
[DE83-018185] 06 p0918 N84-15968
Remarks on the axial flow taper in a countercurrent gas centrifuge
[DE84-002931] 07 p1003 N84-16506
Wheel efficiency in the diamond-spark erosion grinding of tungsten carbides
[CSIR-TRANS-1693] 08 p1140 N84-17418
A modified lifting line theory for wing-propeller interference
[NASA-CR-173324] 09 p1252 N84-18171
Passive solar design procedures for Naval installations
[AD-A136329] 09 p1341 N84-18760
Use of adaptive walls in 2D tests
[NASA-TM-77380] 10 p1432 N84-19359
A normative model of work team effectiveness
[AD-A136398] 10 p1551 N84-20165
Vectorized multigrid Poisson solver for the CDC CYBER 205 10 p1561 N84-20230
Comparison of field performance of a high efficiency heat pump with and without a desuperheater water heater
[DE84-005816] 11 p1653 N84-20795
Spectroscopic evaluation of Nd(3+):CAMGAR and H sub o(3+):YLF as 0.94 micrometer lasers
[AD-A137610] 11 p1662 N84-20845
Multiplication of processing capacity with a parallel processor array
[DE84-004854] 11 p1711 N84-21156
Solar cell metallization: Historical perspective
12 p1838 N84-21981
Getting the current out 12 p1838 N84-21986

Methodology for benefit analysis of CAD/CAM (Computer-Aided Design/Computer-Aided Manufacturing) in USN shipyards
[AD-A136398] 12 p1882 N84-22270
Comparison between measured turbine stage performance and the predicted performance using quasi-3D flow and boundary layer analyses
[NASA-TM-83640] 13 p1932 N84-22564
Performance and size estimating for wind systems
[DE84-006980] 13 p2009 N84-23033
Large firm efficiency, concentration, and profitability in defense markets
[AD-P002810] 13 p2059 N84-23356
Analytical fuel property effects: Small combustors 14 p2108 N84-23639
Production of hydrogen from renewable resources
[DE84-000082] 14 p2132 N84-23780
A high-gain 35 GHz free-electron laser amplifier experiment
[AD-A139593] 14 p2151 N84-23886
Data envelopment analysis and extensions for decision support and management planning
[AD-A139430] 14 p2246 N84-24489
An overview of NASA intermittent combustion engine research
[NASA-TM-83668] 15 p2261 N84-24583
Base blend projectiles: Range calculation program and efficiency comparisons
[FOA-C-20516-D2] 15 p2280 N84-24695
The design and performance of a combustor with a multiple jet primary zone 15 p2291 N84-24749
An analytical method to predict efficiency of aircraft gearboxes
[NASA-TM-83716] 16 p2433 N84-25606
Application of an optimization method to high performance propeller designs
[NASA-TM-83710] 16 p2433 N84-25607
Wind tunnel investigations on thin supercritical airfoils in the high subsonic flow regime
[ESA-TT-774] 16 p2440 N84-25652
A study of liquid hydrogen cooled LO2/LH2 rocket combustor with channel wall construction
[NAL-TR-767] 16 p2459 N84-25763
Unsteady Flow in Turbomachines, volume 1
[VKI-LS-1984-02-VOL-1] 16 p2488 N84-25960
Application of semi-empirical Ge(Li) detector calibration technique for large volume samples
[DE83-012801] 16 p2494 N84-26004
A theoretical analysis of natural convection towers for solar energy conversion
[DE83-011956] 16 p2512 N84-26118
Evaluation of strategies to enhance departure sequencing
[AD-A140710] 17 p2605 N84-26689
Efficiency comparison of quasi-optimum direction finding algorithms used for point sources of signals 17 p2633 N84-26844
Peculiarities of minimization of mixer noise factor 17 p2635 N84-26856
Solar collector test procedures: Development of a method to refer measured efficiencies to standardized test conditions
[PB84-165299] 17 p2723 N84-27333
The relationship between personality and efficiency 17 p2744 N84-27423
Numerical optimization design of advanced transonic wing configurations
[NASA-TM-85950] 18 p2792 N84-27718
Energy efficient engine high-pressure turbine supersonic cascade technology report
[NASA-CR-165567] 18 p2796 N84-27739
VARS: Multilevel automated control system 18 p2918 N84-28507
An experimental and theoretical analysis of the aerodynamic characteristics of a biplane-winglet configuration
[NASA-TM-85815] 19 p2963 N84-28779
Efficiency of nonstandard and high contact ratio involute spur gears
[NASA-TM-83725] 19 p3031 N84-29223
Radiation testing of GaAs on CRRES and LIPS experiment 19 p3044 N84-29314
Panel fabrication utilizing GaAs solar cells 19 p3048 N84-29337
Transparent arrays: Progress toward higher efficiency 19 p3048 N84-29338
High speed, low cost, LEO-thermal-cycling facility 19 p3048 N84-29340
Advanced concepts theory
[AD-A141568] 19 p3107 N84-29741
Fuel savings potential of the NASA Advanced Turboprop Program
[NASA-TM-83736] 20 p3130 N84-29878
High pressure LOX/natural gas staged combustion technology 20 p3138 N84-29927
Engineering research on positive displacement gas expanders, phase 1
[DE84-006977] 20 p3198 N84-30310
Technical and cost potential for lightweight, stretched-membrane heliostat technology
[DE84-004433] 20 p3236 N84-30543
The design and testing of an electrolyte destratification system applied to a 96 V Alco 2200 battery
[PB84-184894] 20 p3237 N84-30550
SERI photovoltaics advanced research and development: FY 1983 accomplishments
[DE84-004493] 21 p3434 N84-31789
Improved heat exchanger for electrothermal devices
[NASA-CASE-LEW-14037-1] 22 p3542 N84-32425
Interrelation between parameters of M-type traveling wave tube 22 p3568 N84-32598
High efficiency heat pump using ground heat source
[DE84-006385] 22 p3594 N84-32761
The EBT-S 28-GHz, 200-kW, CW, mixed-mode, quasi-optical plasma heating system
[DE84-014415] 23 p3829 N84-34287
Space Shuttle reaction control subsystem propellant tank masked screen test 24 p3862 N84-34477
Development of metallization process: FSA project, cell and module formation research area
[NASA-CR-173996] 24 p3884 N84-34609
Managerial and organizational determinants of efficiency in research teams (social sciences)
[AD-A144153] 24 p3968 N84-35125

EFFLUENTS
MSFC exhaust effluent diffusion predictions and measurements for STS-1, STS-2, STS-3, and STS-4
[NASA-TM-82551] 02 p0243 N84-11593
A guide for effluent radiological measurements at DOE installations
[DE83-016639] 04 p0538 N84-13542
Increased confidence in spectrum matching by use of a retention time library — compound identification in industrial effluents
[PB83-232090] 06 p0802 N84-15229
Summary of annual environmental reports for CY 1981: Department of Energy nuclear sites
[DOE/EP-0038/1] 06 p0875 N84-15692
Biochemical indicators of thermal stress: Selected genetic and physiological parameters
[PB84-100122] 08 p1198 N84-17808
Radiative heat exchange in atmosphere disturbed by volcanic eruption 17 p2698 N84-27184

EFFLUX
Recent research on the efflux of the Rolls-Royce vaporiser fuel injector 15 p2290 N84-24743

EFFUSIVES
NT LAVA
Experiments on water/melt explosions, nature of products, and models of dispersal 13 p2081 N84-23483
The 19 March 1982 eruption and lahar at Mount Saint Helens: Implications for Martian outflow channels? 13 p2083 N84-23495

EGGS
Polarity of the amphibian egg 02 p0263 N84-11731
Fate and effects of metals in the sea-surface microlayer
[DE84-000114] 04 p0569 N84-13752
Failure of vincristine induce twinning 09 p1358 N84-18872
Twinning of amphibian embryos by centrifugation 09 p1358 N84-18873
Gypsy moths and American dog ticks: Space partners 18 p2800 N84-27768

EGRESS
Pyrotechnic clear path egress system for the T-38 trainer aircraft
[AD-P003184] 17 p2589 N84-26597
Field repair of AH-16 helicopter window cutting assemblies
[NASA-TM-85831] 20 p3128 N84-29864

EGYPT
Substance geology of the western desert in Egypt and Sudan revealed by Shuttle Imaging Radar (SIR-A) 07 p0967 N84-16392
Multiprocess evolution of landforms in the Kharga Region, Egypt: Applications to Mars 13 p2086 N84-23511
Geophysical investigations of a geothermal anomaly at Wadi Ghadir, eastern Egypt
[NASA-CR-173527] 14 p2175 N84-24030
Geology, petrology and geochronology of the metamorphic rocks of Meatiq Dome, Central Eastern Desert, Egypt 22 p3621 N84-32942

EIGENFUNCTIONS
U EIGENVECTORS

EIGENSTATES
U EIGENVECTORS

EIGENVALUES
Eigenmode analysis of unsteady one-dimensional Euler equations
[NASA-CR-172217] 01 p0003 N84-10022
A systolic architecture for singular value decomposition
[AD-A130098] 01 p0132 N84-10864
A numerical analyst's Jordan canonical form
[AD-A130775] 01 p0133 N84-10873
Parameter identification and control of distributed-parameter systems 02 p0286 N84-11873
Estimating location parameters in a mixture model 03 p0392 N84-12559
Limit theorems for the eigenvalues of product of two random matrices
[AD-A131682] 03 p0425 N84-12787
Considerations of the three-wave interactions
[IPPJ-641] 03 p0444 N84-12915
Complex eigenvalues for the stability of Couette flow
[NASA-CR-172251] 04 p0531 N84-13492
Quasicon formal extensions, Fredholm eigenvalues, and Grunsky coefficient conditions 04 p0577 N84-13804
Estimation of the Manova eigenvalues under the random effects model
[CSIR-TWISK-271] 04 p0587 N84-13877
Cascaded adaptive arrays 05 p0671 N84-14415
A collocation method for computing eigenvalues and eigenfunctions of the Laplacian
[AD-A132827] 05 p0737 N84-14839
Geometric conditions for generic structure of multivariable root-loci
[RR-227] 05 p0738 N84-14849
Full- and half-range theory of indefinite Sturm-Liouville problems
[DE84-001672] 05 p0741 N84-14869
A NASTRAN DMAP procedure for calculation of base excitation modal participation factors 06 p0859 N84-15599
Effect of blade structural parameters on helicopter vibrational characteristics
[AD-A134547] 07 p0951 N84-16174
The use of refined error bound when updating eigenvalues of tridiagonals
[AD-A134163] 07 p1061 N84-16879
IMAGES: A digital computer program for interactive modal analysis and gain estimation for eigensystem synthesis
[NASA-TM-85690] 08 p1105 N84-17186
Shape optimal design and free boundary value problems 08 p1154 N84-17516
Dielectrically loaded corrugated waveguide: Variational analysis of a nonstandard eigenproblem
[REPT-S-131] 09 p1305 N84-18528
Stability of compressible wake and jet flows
[AD-A136541] 09 p1314 N84-18589
Variational methods for nonstandard eigenvalue problems in waveguide and resonator analysis
[REPT-S-128] 09 p1379 N84-19012
Transversely anisotropic optical fiber: Variatioonal analysis of a nonstandard eigen problem
[REPT-S-133] 09 p1390 N84-19080
A nonlinear eigenvalue problem modelling the avalanche effect in semiconductor diodes
[AD-A136368] 09 p1394 N84-19106
Linear or square array for eigenvalue and singular value decompositions? 09 p1401 N84-19150
New principle of array processing in underwater passive listening 09 p1401 N84-19152
State of the art in eigenvalue computations 09 p1401 N84-19154
Eigenvalue methods for vibration analysis 2 10 p1507 N84-19865
Eigenspace design techniques for active flutter suppression 11 p1617 N84-20581
Optimal control and filter gains for the stationary continuous or discrete time LQG problem - A FORTRAN program
[AD-A137667] 11 p1713 N84-21168
Time domain analysis and synthesis of robust controllers for large scale LQG (Linear Quadratic Gaussian) regulators
[AD-A137760] 11 p1713 N84-21172
EISPACK: A package for solving matrix eigenvalue problems
[DE84-005408] 11 p1717 N84-21197
Running stability of large rotor bearing foundation models
[ILR-MITT-124/1983] 12 p1823 N84-21887
Active control of distributed structures 13 p1940 N84-22618
A new eigenfunction expansion and its application to waveguide acoustics
[AD-A138946] 13 p2040 N84-23236
Remarks on the Ambrosetti-Prodi problem
[AD-A139237] 14 p2212 N84-24282

Uniqueness of connecting orbits in the equation y(3) = y2 - 1
[AD-A139261] 14 p2213 N84-24289
Ballooning precessional instabilities in a single cell hot electron plasma
[DE84-007017] 14 p2230 N84-24373
Numerical solution of algebraic matrix Riccati equations
[AD-A139929] 15 p2398 N84-25387
Conversational eigenanalysis program for solving differential equations
[DE84-007560] 15 p2399 N84-25397
Remarks concerning the application of polynomial zeroing methods on the algebraic eigenvalue problem 16 p2541 N84-26309
The analysis of solar models: Neutrinos and oscillations
[NASA-CR-173628] 17 p2780 N84-27652
Design of multivariable feedback control systems via spectral assignment using reduced-order models and reduced-order observers
[NASA-CR-173448] 18 p2923 N84-28537
Numerical methods for nonlinear elliptic eigenvalue problems
[DE84-010408] 18 p2926 N84-28558
Linear stability of general magnetically insulated electron flow
[DE84-010148] 19 p3018 N84-29138
The ERODYN and QRPIG computer programs 20 p3221 N84-30468
Legendre-tau approximation for functional differential equations. Part 2: The linear quadratic optimal control problem
[NASA-CR-172397] 20 p3280 N84-30818
Oscillatory instability in a 2-fluid Benard problem
[AD-A142792] 21 p3399 N84-31565
PLTMGC: A multi-grid continuation program for parameterized nonlinear elliptic systems
[DE84-010406] 21 p3474 N84-32017
Relationships among classes of spherical matrix distributions
[AD-A143215] 22 p3648 N84-33128
Fiber optic sensor with enhanced immunity to random environmental perturbations
[AD-D011115] 22 p3656 N84-33174
The concentric spherical cavity TE and TM (Transverse Electromagnetic and Transverse Magnetic) eigenvalues
[AD-A143985] 23 p3732 N84-33652
Rapid determination of upper and lower bounds to buckling loads and natural frequencies of non-uniform bars 23 p3759 N84-33827
A note on the eigenvalues of a layered system
[INPE-3263-PRE/594] 24 p3950 N84-35007

EIGENVECTORS
Parameter identification and control of distributed-parameter systems 02 p0286 N84-11873
Estimating location parameters in a mixture model 03 p0392 N84-12559
Dissipative instabilities of magnetic neutral layers with velocity shear
[IFSI-82-13] 03 p0451 N84-12985
A collocation method for computing eigenvalues and eigenfunctions of the Laplacian
[AD-A132827] 05 p0737 N84-14839
Establishing observation equations by means of series expansion into eigenfunctions
[TUM-MITT-163] 05 p0739 N84-14851
A NASTRAN DMAP procedure for calculation of base excitation modal participation factors 06 p0859 N84-15599
Possible tidal modulation of the Indian monsoon onset 06 p0879 N84-15721
Eigenvector matrices of symmetric tridiagonals
[AD-A134172] 07 p1061 N84-16880
IMAGES: A digital computer program for interactive modal analysis and gain estimation for eigensystem synthesis
[NASA-TM-85690] 08 p1105 N84-17186
Dielectrically loaded corrugated waveguide: Variational analysis of a nonstandard eigenproblem
[REPT-S-131] 09 p1305 N84-18528
Eigenspace design techniques for active flutter suppression 11 p1617 N84-20581
Frequency domain approach to structural analysis
[DE84-005110] 11 p1669 N84-20889
Optimal control and filter gains for the stationary continuous or discrete time LQG problem - A FORTRAN program
[AD-A137667] 11 p1713 N84-21168
EISPACK: A package for solving matrix eigenvalue problems
[DE84-005408] 11 p1717 N84-21197
Remarks on the Ambrosetti-Prodi problem
[AD-A139237] 14 p2212 N84-24282
Contributions to the computation of the matrix exponential, revision
[AD-A140069] 15 p2396 N84-25392
Conversational eigenanalysis program for solving differential equations
[DE84-007560] 15 p2399 N84-25397
Design of multivariable feedback control systems via spectral assignment using reduced-order models and reduced-order observers
[NASA-CR-173448] 18 p2923 N84-28537
Numerical solutions of non-uniquely solvable integral equations using finite rank modifications
[AD-A142149] 19 p3089 N84-29610
The ERODYN and QRPIG computer programs 20 p3221 N84-30468
A note on the eigenvalues of a layered system
[INPE-3263-PRE/594] 24 p3950 N84-35007
A study of some multi-grid ideas
[AD-A144465] 24 p3951 N84-35021

EINSTEIN EQUATIONS
Eisenstein series on the metaplectic group: An algebraic approach
[MATH-CENTRE-TRACTS-161] 08 p1217 N84-17937
The celestial mechanics experiment (E 11) of HELIOS
[BMFT-FB-W-83-016] 08 p1243 N84-18124

EINSTEIN OBSERVATORY
U HEAO 2

EISCAT RADAR SYSTEM (EUROPE)
The electron and ion spectra of radar returns from the critical height during ionospheric heating experiments 05 p0636 N84-14185
Capabilities and limitations of EISCAT as an MST radar 17 p2690 N84-27129

EJECTA
Impact and explosion crater ejecta, fragment size, and velocity
[NASA-CR-174578] 05 p0733 N84-14813
Cometary nucleus and active regions 13 p2075 N84-23450
Morphology of fresh craters on Ganymede and the origin of pedestal craters 13 p2078 N84-23466
Geomorphic clues to the Martian volatile inventory. 1: Flow ejecta blankets 13 p2079 N84-23474
Solar-Geophysical Data number 471, November 1983. Part 2: Comprehensive reports. Data for May 1983 and miscellanea
[PB84-157007] 14 p2252 N84-24524

EJECTION
NT STELLAR MASS EJECTION
Cervical spine analysis for ejection injury prediction
[AD-A131081] 01 p0114 N84-10739
Crash Position Indicator/Crash Survival Flight Data Recorder (CPI/CSFDR): Ejectable versus nonejectable 17 p2587 N84-26584

EJECTION INJURIES
Position and restraint system for aircrewman
[AD-D011058] 22 p3532 N84-32364

EJECTION SEATS
NT FLYING EJECTION SEATS
Douglas Aircraft Company Advanced Concept Ejection Seat (ACES 2), revision c
[AD-A133628] 05 p0628 N84-14131
Electrofluidic angular rate sensor for ejection seat thrust vector control
[AD-A133233] 06 p0784 N84-15137
Vernier Rocket Motor Mk 84 Mod 0 quality evaluation
[AD-A133301] 06 p0796 N84-15185
Aircrew Automated Escape Systems (AAES) In-service Usage Data Analyses, volume 1
[AD-A134833] 08 p1100 N84-17154
Aircrew Automated Escape Systems (AAES) In-service Usage Data Analyses, volume 2
[AD-A134834] 08 p1100 N84-17155
A Generalized Escape System Simulation (GESS) computer program: GESS user's guide, version 2, volume 1
[AD-A138844] 13 p1928 N84-22545
Physiological acceptability tests of the modified SJU-5/A ejection seat for the F-18 aircraft
[AD-A139416] 14 p2103 N84-23614
Passive Arm Restraint Curtain (PARC) for Navy aircraft ejection seats
[AD-A139435] 14 p2103 N84-23615
Pyrotechnic clear path egress system for the T-38 trainer aircraft
[AD-P003184] 17 p2589 N84-26597
History of aircraft escape system propulsion 20 p3141 N84-29941
Propulsion in a life-saving role for ACES 2 20 p3141 N84-29942
The Stencel S4S ejection seat: A study in new pyrotechnic developments 20 p3141 N84-29943
Crest: Crew escape technologies for the 1990's 20 p3141 N84-29944
Annual meeting of the Pyrotechnics and Explosives Applications Section on the American Defense Preparedness Association
[AD-A143157] 21 p3373 N84-31406
Position and restraint system for aircrewman
[AD-D011058] 22 p3532 N84-32364
Self-deploying afterbody apparatus for an ejection seat
[AD-D011205] 24 p3852 N84-34433

EJECTORS
Variable area ejector-diffuser model tests
[AD-A134843] 08 p1105 N84-17182
Design and testing of scaled ejector-diffusers for jet engine test facility applications
[AD-A136745] 10 p1432 N84-19364
An experimental study of thrust augmenting ejectors
[AD-A136929] 10 p1492 N84-19757
Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-15429-1] 13 p1939 N84-22609
New TPS calibration bench, and ejector tests — wind tunnel turbines and powered models 14 p2099 N84-23594
Supersonic STOVL ejector aircraft from a propulsion point of view
[NASA-TM-83641] 15 p2261 N84-24581
High speed ejectors
[AD-A141562] 18 p2796 N84-27741
Diffuser/ejector system for a very high vacuum environment
[NASA-CASE-MRS-25791-1] 18 p2797 N84-27749
Thrust augmentation study of high performance ejectors
[AD-A142650] 20 p3126 N84-29856
Preliminary engineering report for design of a subscale ejector/diffuser system for high expansion ratio space engine testing
[NASA-CR-171137] 21 p3354 N84-31273
Axisymmetric thrust augmenting ejector with discrete primary air slot nozzles
[AD-D011129] 22 p3536 N84-32386
An experimental investigation of an underexpanded rectangular jet ejector 23 p3688 N84-33374

EKMAN LAYER
The instability of oscillatory Ekman boundary-layer flow 05 p0710 N84-14855
Treatment of the discontinuity in the spin-up problem with impulsive start
[AD-A133682] 16 p2485 N84-25940
Effect of asymmetric Ekman dissipation on finite-amplitude baroclinic disturbance 16 p2527 N84-26223
The effects of latent heat release on the waves with Ekman pumping 24 p3926 N84-34847

ELASTIC ANISOTROPY
Singularities at the tip of a crack normal to the interface of an anisotropic layered composite
[AD-A131504] 01 p0096 N84-10625
Investigation of the Rayleigh critical angle phenomenon for the characterization of surface properties
[AD-A131530] 03 p0360 N84-12340
Measurement of small elastic anisotropy in solids using laser induced ultrasonic pulses
[AD-A144296] 24 p3912 N84-34775

ELASTIC BARS
The emergence and propagation of a phase boundary in an elastic bar
[AD-A132275] 04 p0549 N84-13616
The emergence and propagation of a phase boundary in an elastic bar 05 p0690 N84-14535
Bending elasticity of circularly notched bars as monolithic flexure hinges in precision mechanisms
[DE84-002199] 06 p0861 N84-15612
Optimization of production conditions and material characteristics of tubular stabilizer bars — vehicle stabilizer bars
[BMFT-FB-T-83-177] 07 p0986 N84-16385
Geometrically nonlinear analysis of beam-in-space structures
[MITT-28] 12 p1827 N84-21914
The cauchy problem in one-dimensional nonlinear viscoelasticity
[AD-A141507] 19 p3084 N84-29576
Oscillations of elastic airplane due to wind gust 21 p3485 N84-32087
Rapid determination of upper and lower bounds to buckling loads and natural frequencies of non-uniform bars 23 p3759 N84-33827

ELASTIC BENDING
Plastic deformations of a portable frame under short pulse loading on one column by an approximate method including effects of elasticity and plastic rate sensitivity 03 p0387 N84-12521
Bending elasticity of circularly notched bars as monolithic flexure hinges in precision mechanisms
[DE84-002199] 06 p0861 N84-15612

Flexibilities of and stresses in thin unpressurised pipe bends with flanged ends under in-plane bending: Influence of bend angle
[ESDU-81041] 07 p1015 N84-16581

ELASTIC BODIES
Analysis of nonclassical friction laws for contact problems in elastostatics 02 p0230 N84-11511
Vibration response of geometrically nonlinear elastic beams to pulse and impact loading
[NASA-CR-174495] 03 p0388 N84-12527
The propagation and arrest of an edge crack in an elastic half-space under conditions of anti-plane shear: Analytical and numerical results 04 p0547 N84-13604
Restricted maximum principles for elastic bodies
[NASA-CR-172255] 04 p0548 N84-13609
The plane stress/strain analysis of non-homogeneous continua by the boundary integral equation method
[TR-821S] 04 p0587 N84-13880
Finite element analysis of fluid-filled elastic piping systems 06 p0859 N84-15600
Fundamentals of elasticity theory
07 p1030 N84-16680
A finite difference scheme for the equilibrium equations of elastic bodies
[NASA-CR-172293] 08 p1170 N84-17621
Shock waves in 3-dimensional elastic solids
[AD-A138018] 12 p1826 N84-21906
Biaxial orientation and mechanical properties of amorphous polymers 13 p1998 N84-22965
On some dynamic problems in layered elastic-viscoelastic beams 15 p2309 N84-24856
Post-buckling behavior of elastic frame structures
17 p2679 N84-27062
The stability and dynamics of elastic structures and fluid flows
[AD-A141206] 18 p2837 N84-28006
SPAR improved structure-fluid dynamic analysis capability, phase 2
[NASA-CR-171078] 19 p3021 N84-29153
Wave propagation in elastic-viscoplastic bodies
[REPT-23] 19 p3034 N84-29242
Simplifications in the simulation of mechanisms containing flexible members 22 p3607 N84-32855
Finite element prediction of acoustic scattering and radiation from submerged elastic structures
22 p3610 N84-32874
Parameter estimation for the Euler-Bernoulli-beam
[NASA-CR-172417] 22 p3645 N84-33107

ELASTIC BUCKLING
Unified operator description, nonlinear buckling and post-buckling analysis of thin elastic shells
[RUB-IFM-MITT-34] 06 p0857 N84-15582
Post-buckling behavior of elastic frame structures
17 p2679 N84-27062
Formulation of stiffness matrices for elastic buckling of thin-walled open section prismatic columns
[TT-8402] 20 p3204 N84-30353
The post-buckling equilibrium and the dynamic collapse of complex hyperstatic pin-jointed lattices and reticulated shells 21 p3417 N84-31667

ELASTIC COLLISIONS
U ELASTIC SCATTERING

ELASTIC CONSTANTS
U ELASTIC PROPERTIES

ELASTIC CYLINDERS
Yield surface for bars including warping restraint
[AD-A131393] 03 p0388 N84-12533
Combined tension-torsion of a cylindrical mixture of an elastic solid and fluid
[AD-A136351] 09 p1331 N84-18689
A simple approach for determination of bursting pressure of a thick-walled cylinder
[AD-P002956] 14 p2199 N84-24196
Pressure induced radial diffusion of a fluid through a thick walled highly elastic cylinder
15 p2313 N84-24881
Three-dimensional stressed state of longitudinally corrugated elastic cylinders 17 p2651 N84-26950

ELASTIC DAMPING
NT VISCOELASTIC DAMPING
Electronic damping of a large optical bench
10 p1514 N84-19914

ELASTIC DEFORMATION
NT ELASTIC BENDING
NT ELASTIC BUCKLING
Effect of structural factors on the crack resistance of tungsten carbide/cobalt alloys at high temperatures
[CSIR-1682] 01 p0042 N84-10269
Inelastic deformation of crystaline nonmetallic solids
[DE83-014594] 01 p0155 N84-11020
Diffusive relaxation of stress concentrations at grain boundary cavities in elevated temperature creep
02 p0297 N84-11950
Mechanical behavior of sea ice
[AD-A131852] 03 p0401 N84-12619
Non-uniformity of elastic micro-deformations in austenitic steels
[BLL-M-35357-(5828.4)] 04 p0497 N84-13261
We need simplicity and speed. Some examples of simple and fast methods for the measurement of deformations of structures
[NLR-MP-82021-U] 06 p0862 N84-15616
Fundamentals of elasticity theory
07 p1030 N84-16680
Adaptation of two-dimensional transonic analysis code, TSFOIL, for use in modeling adaptive wall test sections
08 p1238 N84-18089
Combined tension-torsion of a cylindrical mixture of an elastic solid and fluid
[AD-A136351] 09 p1331 N84-18689
Precision forging of front fan blades, abridged version
[BMFT-FB-T-83-205] 10 p1472 N84-19613
The propagation and arrest of an edge crack in an elastic half-space under conditions of anti-plane shear: Analytical and numerical results
[AD-A137275] 10 p1517 N84-19930
The analysis of elastic-plastic deformation and stress at finite strain and their evaluation
[AD-A137931] 11 p1669 N84-20887
New exact solutions in non-linear elasticity
[AD-A137926] 11 p1715 N84-21181
Stressed-strained state of flanged shells under heavy thermal load beyond elastic limit
13 p1972 N84-22800
The structure of the Ionian lithosphere
13 p2073 N84-23435
Microstructures associated with wear
14 p2153 N84-23901
A simple approach for determination of bursting pressure of a thick-walled cylinder
[AD-P002956] 14 p2199 N84-24196
An expression of strain energy involving couple stresses in solids 15 p2313 N84-24880
Non-steady state effects in EHL
15 p2341 N84-25051
An interpretive study of plate and shell buckling
[AD-A140487] 16 p2502 N84-26062
A new second order accurate finite difference method for dynamic response of elastic-plastic finite deformation problems 17 p2678 N84-27056
Some remarks on the definition of material isotropy
17 p2761 N84-27539
Causes and prevention of structural materials failures in naval environments
[AD-A141560] 19 p2994 N84-28972
Elastic-plastic deformation of pulse-loaded structures
[AD-A142350] 20 p3202 N84-30339
Longitudinal vibrations of rods of finite length with radial deformation
[AD-A142674] 21 p3421 N84-31703
Mechanics of microcrack toughening in ceramics
23 p3760 N84-33831

ELASTIC MEDIA
The dynamic in plane response at the centre of a rotating elastic disc due to oscillatory in plane forces at the rim
[ISVR-TR-121] 04 p0548 N84-13613
SH wave propagation in a laminated composite
11 p1627 N84-20646
Elastic quarter plane and quarter space boundary value problems 11 p1667 N84-20876
Some remarks on the definition of material isotropy
17 p2761 N84-27539

ELASTIC MODULUS
U MODULUS OF ELASTICITY

ELASTIC PLATES
Elastic-plastic analysis of annular plate problems using NASTRAN
[AD-A131293] 02 p0231 N84-11518
Three-dimensional analysis of composite plates with material nonlinearity
[AD-A131884] 03 p0347 N84-12258
Vibrations of doubly-rotated-cut quartz plates with monoclinic symmetry
[AD-A135948] 09 p1377 N84-18996
Measuring the temperature coefficients of the elastic constants of indium phosphide
[AD-A138454] 12 p1915 N84-22474
Approximations for elastic layers and a three-dimensional elasticity solution for a simply supported rectangular plate 15 p2314 N84-24884
Effect of elastically suspended masses on stability of elastic panels in supersonic stream
17 p2650 N84-26949
Oscillations of a reservoir with a fluid on the free surface of which a membrane is located
[AD-A142127] 19 p3024 N84-29179
Strains in an elastic plate containing an interference-fit bolt near a free edge
[AR-003-012] 20 p3201 N84-30333
Three-dimensional finite element analysis of straight and curved through cracks in a plate
23 p3759 N84-33826
Fluid layer between infinite elastic plates. I: Mathematics and intensity vectors
[AD-A144373] 24 p3901 N84-34700

ELASTIC PROPERTIES
NT AEROELASTICITY
NT AEROTHERMOELASTICITY
NT ANELASTICITY
NT ELASTOPLASTICITY
NT HYDROELASTICITY
NT MAGNETOSTRICTION
NT MODULUS OF ELASTICITY
NT PHOTOELASTICITY
NT THERMOELASTICITY
NT THERMOVISCOELASTICITY
NT VISCOELASTICITY
Nonlinear stability control
[DE83-014341] 01 p0082 N84-10532
A total life prediction model for stress concentration sites
[NASA-CR-168225] 01 p0094 N84-10612
Advanced experimental techniques in crack tip analysis
[AD-A130719] 01 p0095 N84-10618
Viscous effect on acoustic scattering by elastic solid cylinders and spheres
[DE83-014271] 01 p0140 N84-10920
A finite element study of instabilities in rubber elasticity 02 p0199 N84-11293
Stressing processes associated with great crustal earthquakes at plate boundaries
02 p0246 N84-11612
Nonlinear elastic behavior of piezoelectric trigonal crystals: Measurements on quartz and LiNbO3
[AD-A131350] 02 p0298 N84-11956
Load deflection characteristics of inflated structures
[NASA-CR-174585] 03 p0311 N84-12028
Buckled plate vibrations, large amplitude vibrations and nonlinear flutter of elastic plates using high-order triangular finite elements 03 p0387 N84-12523
Numerical analysis of stable crack growth in elastic-plastic materials in small scale and general yielding 03 p0391 N84-12549
On differential equations of nonlocal elasticity and solutions of screw dislocation and surface waves
[AD-A131911] 03 p0425 N84-12786
Comparison of compression properties and swelling of beryllium irradiated at various temperatures
[DE84-000597] 04 p0500 N84-13277
Targeted basic studies of ferroelectric and ferroelastic materials for piezoelectric transducer applications
[AD-A132136] 04 p0526 N84-13461
The measurement of elastic constants for the determination of stresses by X-rays
[AD-A132330] 04 p0590 N84-13897
Precision support of annular optics
[DE83-017473] 04 p0605 N84-13993
Acoustoelasticity: Scanning with shear waves
05 p0695 N84-14560
Solution of elastic and elasto-plastic problems by the method of lines 06 p0858 N84-15573
Unified operator description, nonlinear buckling and post-buckling analysis of thin elastic shells
[RUB-IFM-MITT-34] 06 p0857 N84-15582
A generalized couple theory of hygrothermal-elasticity: Transient effects in composite laminate with circular cavity
[AD-A134376] 07 p0968 N84-16271
Stress concentration factors. Axially loaded lugs with clearance-fit pins
[ESDU-81006] 07 p1014 N84-16578
On the implications for LEFM (Linear elastic fracture Mechanics) of the 3-dimensional aspects in some crack/surface intersection problems
[AD-A134227] 07 p1016 N84-16592
Fundamentals of elasticity theory
07 p1030 N84-16680
Variational methods in elasticity theory
07 p1030 N84-16681
Problems, examples and exercises
07 p1030 N84-16682
Comparison of the characteristics of graphites irradiated at 600 and 9000 deg C
[DE83-015695] 08 p1123 N84-17297
A finite difference scheme for the equilibrium equations of elastic bodies
[NASA-CR-172293] 08 p1170 N84-17621
A review of fracture mechanics life technology --- linear elastic fracture mechanics
[NASA-CR-170903] 08 p1170 N84-17622
Technical theory of pneumatic beams --- inflated beams
[FOA-C-20504-E4] 08 p1172 N84-17634

Heron, volume 28, no. 1, 1983. Dynamic elasto-plastic model for reinforced concrete members
[PB84-109057] 08 p1172 N84-17635
Acoustic data and uncertainty in geotechnical site characterization offshore
[PB84-100908] 08 p1196 N84-17801
Numerical solution of singular integral equations arising in mixed boundary value problems of elasticity
[AD-A134873] 08 p1220 N84-17965
Numerical investigation of stress-strain state of composite working tool assembled with negative allowance
[BLL-M-35379] 09 p1328 N84-18672
The stability and dynamics of elastic structures and fluid flows
[AD-A137184] 10 p1491 N84-19750
Elastic theory of the defect solid solution
[DE84-001976] 10 p1590 N84-20418
Nonlinear analysis of thin-walled I-sections in bending
[PB84-137918] 11 p1669 N84-20890
New exact solutions in non-linear elasticity
[AD-A137928] 11 p1715 N84-21181
Research activities of the Applied Mathematics Group
[AD-A137838] 11 p1750 N84-21422
An investigation of some basic properties of hybrid composite materials
[AD-A138040] 12 p1789 N84-21669
Contact stresses in pin-loaded orthotropic plates
[NASA-CR-173475] 12 p1825 N84-21900
Measuring the temperature coefficients of the elastic constants of indium phosphide
[AD-A138454] 12 p1915 N84-22474
Effect of pressure on the mechanical properties of polymers, part 1
[DE84-006311] 13 p1965 N84-22765
Linear dynamics of cables and chains
13 p2000 N84-22978
Method of initial functions for thick shells
13 p2003 N84-22996
Temperature-compensated piezoelectric materials
[AD-A139279] 14 p2242 N84-24460
On the analysis of thick walled composite material cylindrical shells 15 p2311 N84-24867
Nonlinear vibrations of a rubber support system constrained by a fixed surface 15 p2313 N84-24878
Pressure induced radial diffusion of a fluid through a thick walled highly elastic cylinder
15 p2313 N84-24881
Stresses in and around double confocal spheroids embedded in infinite media 15 p2314 N84-24883
Approximations for elastic layers and a three-dimensional elasticity solution for a simply supported rectangular plate 15 p2314 N84-24884
Studies of elastic-plastic response under high pressure shock loading 15 p2316 N84-24900
Middle East Technical University Journal of Pure and Applied Sciences, volume 15, no. 2
15 p2401 N84-25406
An epicycloidal hole under uniform tangential force in an infinite, isotropic, compressible medium in second order elasticity 15 p2401 N84-25407
Temperature dependence of elastic and strength properties of T300/5208 graphite-epoxy
[NASA-CR-173616] 16 p2460 N84-25767
Evolution of the phonon spectrum and the density of states at the Fermi level near the martensitic transformation in NiAl, Ti(NiCo), CuZnAl and In:Tl alloys
[ESA-TT-767] 16 p2465 N84-25801
Path-independent integrals in dynamic fracture mechanics
[AD-P003111] 16 p2468 N84-25816
Development of methods of evaluation extensional properties of polymer solutions from measurements of shear
[AD-A140451] 16 p2472 N84-25845
Application of micropolar elasticity to the finite element continuum analysis of articulated structures
17 p2679 N84-27064
Possibilities of studying inelastic properties and characteristics of medium inhomogeneity using spectra of scattered waves 17 p2706 N84-27230
Kinetic-elastic approach for time-dependent rheological data on slurry fuels and polymers
[AD-A141210] 18 p2821 N84-27911
The influence of stress on the principal polarisation directions of ultrasonic shear waves in textured steel plates
[AERE-R-11078] 18 p2854 N84-28124
Method for summing Gaussian beams in isotropic elasticity theory 18 p2862 N84-28171
The approximation theory for the p-version of the finite element method, part 2
[AD-A140952] 18 p2925 N84-28550
On continuous distributions of dislocations in nonlocal elasticity
[AD-A141858] 19 p3036 N84-29257
Elastic-plastic fracture toughness testing methods
[AD-A142033] 19 p3036 N84-29259
Design considerations for shear links in eccentrically braced frames
[PB84-192186] 20 p3171 N84-30136
Methods for analysis of cracks in three-dimensional solids
[NASA-TM-86266] 20 p3201 N84-30330
Strains in an elastic plate containing an interference-fit bolt near a free edge
[AR-003-012] 20 p3201 N84-30333
Compound strip methods for the analysis of continuous elastic plates 21 p3417 N84-31670
The nonlinear dynamics of spinning paraboloidal antennas 21 p3476 N84-32033
Effective thermophysical and elastic properties of materials with voids
[DE84-013942] 22 p3549 N84-32465
Opening of an interface flaw in a layered elastic half-plane under compressive loading
[NASA-TM-86282] 22 p3611 N84-32677
Simple examples of non linear truss behavior
[AD-A143368] 22 p3611 N84-32682
Fiber optic sensor with enhanced immunity to random environmental perturbations
[AD-D011115] 22 p3656 N84-33174
Elastic properties of textured sheets of two-phase titanium alloys 23 p3708 N84-33505
Development of in situ stiffness properties for shuttle booster filament wound case
[NASA-TP-2377] 23 p3711 N84-33521
Effect of Weissenberg number on turbulent heat transfer and friction factor of viscoelastic fluids
23 p3745 N84-33743
Three-dimensional finite element analysis of straight and curved through cracks in a plate
23 p3759 N84-33826
Planning of plates reinforced with equally strassed fibers of constant cross section 24 p3872 N84-34540
Prediction of crack extension direction in unidirectional composites
[VPI-E-84-27] 24 p3878 N84-34572

ELASTIC SCATTERING
Recent results in the study of heavy-ion elastic scattering at large angles
[DE83-012214] 01 p0142 N84-10935
Molecular-beam scattering
[DE83-016138] 01 p0144 N84-10951
Amplitude analysis of elastic p-p scattering at 6 GeV/c at all t's
[DE83-015875] 02 p0291 N84-11909
Raman and fluorescent scattering by molecules embedded in small particles
[DE84-001278] 04 p0597 N84-13937
Recent developments in the understanding of pion-nucleus scattering
[DE84-001017] 04 p0597 N84-13942
Diffusion measurements in microemulsions
[AD-A133801] 05 p0648 N84-14265
Differences between positrons and electrons in elastic and inelastic processes at surfaces
[DE84-001208] 06 p0916 N84-15953
Low energy neutrino physics
[DE84-002656] 08 p1230 N84-18037
Gamma ray line emission, nuclear destruction and neutron production in hot astrophysical plasmas. Deuterium boiler as a gamma ray source
[REPT-762] 11 p1733 N84-21301
Pion elastic and inelastic scattering from (40) (42) (44) (48)Ca and (54)Fe
[DE84-009080] 20 p3296 N84-30927
Intermediate-energy nuclear theory — nucleon-nucleon theory, three-dadron systems, hadron form factors, and Dirac particles
[DE84-012971] 22 p3654 N84-33161
Elastic scattering of positrons with hydrogen and lithium atoms at intermediate energies
[DE84-701187] 24 p3962 N84-35092
Numerical simulations of collisions in self-gravitating systems 24 p3967 N84-35237

ELASTIC SHELLS
Unified operator description, nonlinear buckling and post-buckling analysis of thin elastic shells
[RUB-IFM-MITT-34] 06 p0857 N84-15582
Buckling of stiffened cylindrical bins under wind loading
[PB84-137926] 10 p1518 N84-19941
Automatic elimination of static unbalance of rotor in anisotropic bearings 13 p1973 N84-22803
Elastoplastic double-wall shells under intricate nonisothermal load 17 p2651 N84-26951
A new 48 D.O.F. quadrilateral shell element with variable-order polynomial and rational B-spline geometries with rigid body modes 17 p2678 N84-27058

ELASTIC STABILITY
U DAMPING

ELASTIC SYSTEMS
On the effect of gyroscopic forces on the instability of certain fluid-elastic systems. Part 1: Definitions
[PUBL-340] 04 p0532 N84-13499

ELASTIC WAVES
NT AERODYNAMIC NOISE
NT AIRCRAFT NOISE
NT BAROCLINIC WAVES
NT CAPILLARY WAVES
NT COHERENT ACOUSTIC RADIATION
NT COMPRESSION WAVES
NT DETONATION WAVES
NT ELECTROACOUSTIC WAVES
NT ELECTROSTATIC WAVES
NT ENGINE NOISE
NT GRAVITY WAVES
NT ION ACOUSTIC WAVES
NT IONIC WAVES
NT JET AIRCRAFT NOISE
NT LOVE WAVES
NT MAGNETOACOUSTIC WAVES
NT MAGNETOHYDRODYNAMIC WAVES
NT NOISE (SOUND)
NT NORMAL SHOCK WAVES
NT OBLIQUE SHOCK WAVES
NT P WAVES
NT PHONONS
NT PLASMA WAVES
NT RAYLEIGH WAVES
NT RIPPLES
NT S WAVES
NT SEISMIC WAVES
NT SHOCK WAVES
NT SONIC BOOMS
NT SOUND WAVES
NT STRESS WAVES
NT THERMAL NOISE
NT TOLLMEIN-SCHLICHTING WAVES
NT ULTRASONIC RADIATION
Melting of metals above 100 GPa
[DE83-015261] 01 p0046 N84-10299
Workshop on Research Techniques in Wave Propagation and Scattering
[AD-A130270] 01 p0063 N84-10415
Rarefaction velocities in shocked tantalum and the high-pressure melting point
[DE83-015916] 02 p0195 N84-11268
Three-dimensional computer modeling of a shock-recovery experiment
[DE83-015915] 02 p0220 N84-11441
Elastic-wave scattering from multiple voids (porosity)
[DE83-018076] 04 p0546 N84-13596
Characterization of the pressure wave originating in the explosion of a gas cloud 08 p0836 N84-15446
Propagating plane harmonic waves through finite length plates of variable thickness using finite element techniques 06 p0860 N84-15601
An investigation of new possibilities to simplify the standard supersonic area rule
[AD-A137018] 10 p1422 N84-19297
An analytical and numerical study of the interaction of rarefaction waves with area changes in ducts. Part 1: Area reductions
[UTIAS-272] 11 p1651 N84-20780
Studies of the propagation of elastic waves in fluids and solids
[AD-A137603] 11 p1729 N84-21278
Elastic wave scattering from cylindrical cavities and solid inclusions analyzed by the resonance method
[AD-P002971] 14 p2201 N84-24207
On the breakdown of acceleration waves in radiative magneto-fluids 15 p2402 N84-25415
Practice; criteria; provisions; mathematical descriptions: Examples
[PUBL-310] 16 p2487 N84-25951
Effect of pressure wave on cylindrical sandwich shell immersed in compressible fluid
17 p2650 N84-26948
On the elastic wave velocity distribution beneath the continental slope of the Kuril trench
19 p3061 N84-29421
Elastic domain wall waves in ferroelectric ceramics and single crystals
[AD-A142393] 20 p3308 N84-31011
An analytical evaluation of spall suppression of impulsively loaded aluminum panels based on a 1-dimensional stress wave propagation model
[AD-A143173] 21 p3422 N84-31708
A three-dimensional ray method and its application to the study of wave propagation in crustal structure with curved layers 21 p3439 N84-31821
Unified theory and measurements of elastic waves in polycrystalline materials 21 p3489 N84-32110

Application of elastic wave scattering theory to the detection and characterization of flaws in structural materials
[DE84-013729] 22 p3607 N84-32852
Use of methods of transmission line electrical theories to analyze one-dimensional dynamic problems of consolidation theory
[ISSN-0208-5658] 23 p3734 N84-33662
Elastic wave propagation in a periodically triaminated composite 24 p3957 N84-35056

ELASTICITY
U ELASTIC PROPERTIES

ELASTICIZERS
U PLASTICIZERS

ELASTODYNAMICS
NT ELASTIC DAMPING
NT ELASTOHYDRODYNAMICS
Interaction of stress waves and cracks using a second order accurate finite difference method 03 p0387 N84-12522
An accurate and economical finite element family for large order structural analysis
[CSIR-ME-1780] 07 p1015 N84-16584
Influence of transient regimes of the motor on elastic mechanical vibrations in an electric drive
[BLL-M-35438-(5828.4)] 12 p1825 N84-21896
Plastic deformations near a rapidly propagating crack tip
[AD-A138273] 12 p1826 N84-21907
Linear dynamics of cables and chains 13 p2000 N84-22978
Effective elastic moduli of an isotropic, two-phase composite 15 p2309 N84-24852
Attempt to study by ocular inspection the influence of rubber quality on the sealing effects of O-rings
[FOA-C-20526-E4] 16 p2496 N84-26030
An analysis of traction drive torsional stiffness
[NASA-TM-83712] 17 p2675 N84-27043
Analysis of dynamic mixed-mode crack tip stress patterns
[AD-A143329] 22 p3611 N84-32880
Optical and other property changes of M-50 bearing steel surfaces for different lubricants and additive prior to scuffing
[NASA-TM-83746] 24 p3888 N84-34620

ELASTOHYDRODYNAMICS
Numerical methods and computers used in elastohydrodynamic lubrication
[NASA-TM-83524] 02 p0228 N84-11498
Topological reaction rate measurements related to scoffing
[NASA-TM-83486] 05 p0652 N84-14288
The ball bearing as a rheological test device
[NASA-TM-83570] 08 p1166 N84-17591
Lubrication of engineering surfaces, phase 2
[DE84-006344] 12 p1822 N84-21878
Measurements of elastohydrodynamic film thickness, wear and tempering behavior of high pressure oxygen turbopump bearings
[NASA-CR-171008] 13 p1997 N84-22960
Elastohydrodynamic lubrication of smooth surfaces 15 p2315 N84-24895
Elastohydrodynamic lubrication of rough surfaces 15 p2315 N84-24896
Friction in elastohydrodynamic contacts 15 p2316 N84-24897
Elastohydrodynamic lubrication. Status of understanding 15 p2340 N84-25048
Non-steady state effects in EHL 15 p2341 N84-25051
Real surface effects in elastohydrodynamic lubrication 15 p2341 N84-25052
Micro-elastohydrodynamic lubrication 15 p2341 N84-25053
Transient EHL effects in starved ball bearings 15 p2341 N84-25054
Lubrication of machine elements
[NASA-RP-1126] 21 p3413 N84-31640

ELASTOMERS
NT CHLOROPRENE RESINS
NT VITON
NT VULCANIZED ELASTOMERS
Geothermal Elastomeric Materials Technology Transfer (GEM-TT) Program
[DE83-013116] 01 p0050 N84-10325
New fluorocarbon elastomers for seals for geothermal and other aggressive environments
[DE83-014424] 01 p0090 N84-10590
Failure processes in elastomers at or near a rigid spherical inclusion
[AD-A132060] 03 p0356 N84-12314
In-situ permeation tests of elastomeric O-ring seals
[DE83-015622] 03 p0356 N84-12318
Fracto-emission from polymers
[AD-A132462] 04 p0506 N84-13314
Elastomer-modified phosphorus-containing imide resins
[NASA-CASE-ARC-11400-1] 05 p0657 N84-14322
Linear and nonlinear viscoelastic constitutive relations of cord reinforced elastomers
[DE84-002371] 05 p0660 N84-14338
Permeability of flexible materials used in fuel storage tanks. Part 1: General review
[MRL-TN-459] 05 p0662 N84-14353
Elastomeric impression materials and cleaning systems for residue removal
[RFP-3442] 06 p0814 N84-15296
Modeling the mechanical behavior of elastomeric styrene-butadiene-styrene block copolymers 11 p1635 N84-20693
Preparation and properties of polyurethane and polyurethaneurea elastomers from methylene bis(4-cyclohexylisocyanate)
[AD-A137645] 11 p1637 N84-20704
Thermally stable elastomers: A review
[AD-A137914] 11 p1638 N84-20707
Buckling of optical fibers within elastomers used in an embedded-core cable structure 11 p1722 N84-21233
Ring tensile test of modified Halthane 88-2
[DE84-005891] 12 p1802 N84-21750
Process for preparing perfluorotriazine elastomers and precursors thereof
[NASA-CASE-ARC-11402-1] 13 p1961 N84-22744
Effect of interfacial bonding on the strength of adhesion of elastomers. 3: Interlinking by molecular entanglements
[AD-A138760] 13 p1963 N84-22757
Micromechanics of fracture in elastomers
[AD-A138783] 13 p1964 N84-22758
Investigation of structure-permeability relationships of silicone polymer membranes
[PB84-160977] 14 p2130 N84-23771
The influence of surface topography on polymer friction 14 p2153 N84-23899
Investigation of the dynamic properties of an elastomer bush
[BU-283] 15 p2255 N84-24543
Methods of full and accurate rheological characterisation
[AD-B080747] 15 p2300 N84-24803
Solid state compressor
[AD-A140498] 16 p2499 N84-26032
Protective linear materials for transparent plastics
[AD-P003204] 17 p2592 N84-26617
Mechanical properties of silicone rubber in a closed volume
[AD-A138129] 18 p2818 N84-27890
Aircraft surface coatings
[NASA-CR-165926] 19 p2963 N84-28778
Pressure-dependence of glass transition temperature of elastomeric glasses
[AD-A141485] 19 p2998 N84-28999
Nonlinear structural characterization of solid propellants 20 p3142 N84-29951
Kevlar-49/epoxy case skirt structural fatigue strength 20 p3143 N84-29955
High energy binders
[AD-A142347] 20 p3166 N84-30105
Breakdown of organic insulators 22 p3583 N84-32694
USSR report: Chemistry
[JPRS-UCH-84-007] 24 p3867 N84-34508

ELASTOPLASTICITY
Elasto-plastic analysis of plane stress problems using uniaxial symmetric Tresca yield surface and kinematic hardening 01 p0093 N84-10606
Elastic-plastic fracture of cylindrical shells containing part-through circumferential cracks 03 p0391 N84-12553
Implementation of elastic-plastic structural analysis into NASTRAN 06 p0860 N84-15606
Elastic-plastic analysis of annular plate problems using NASTRAN 06 p0861 N84-15607
Stressed-strained state of flanged shells under heavy thermal load beyond elastic limit 13 p1972 N84-22800
The effective behavior of inelastic composites 15 p2308 N84-24850
Non-linear transient response of flat plate to air shock wave
[AD-A140491] 16 p2503 N84-26063
Elastoplastic double-wall shells under intricate nonisothermal load 17 p2651 N84-26951
Residual stresses in long double-layer cylinder under nonsteady cooling 17 p2651 N84-26953
Three-dimensional non-self-similar crack growth in elastic-plastic materials 17 p2678 N84-27055
Preliminary study on elastoplasticity in large transformations
[CETIM-11-E-360] 21 p3424 N84-31719
General condition of the limiting state for isotropic materials
[ISSN-0208-5658] 23 p3712 N84-33530
Stability analysis of elastic-plastic rectangular plate with opening 24 p3958 N84-35062

ELASTOSTATICS
Some bifurcation topics in non-linear elastostatics 03 p0387 N84-12524
An investigation of the indirect boundary element method in One- and two-dimensional elastostatics
[AD-A133142] 06 p0900 N84-15843
Some topics in finite elasticity 08 p1169 N84-17614
The crack-inclusion interaction problem
[NASA-CR-172308] 10 p1516 N84-19928
Relaxation, regularity and operator theoretical methods for a class of problems in nonlinear elastostatics 11 p1666 N84-20871

ELECTRETS
Pre-existing polarization and influence of electrode materials on PVF2 electrets as determined by thermal pulse and pyroelectric methods
[AD-A132896] 05 p0659 N84-14335
Experimental investigation of the effect of electrets on bone healing 23 p3809 N84-34150

ELECTRIC AIRCRAFT
U FLY BY WIRE CONTROL

ELECTRIC APPLIANCES
U ELECTRIC EQUIPMENT

ELECTRIC ARCS
NT MERCURY ARCS
Simple ideal gas model of the Pavlovskii high-explosive opening switch
[DE83-016630] 02 p0215 N84-11411
High-current railgap studies
[DE83-013859] 02 p0290 N84-11898
Thermal-energy transport from arc to rails in an arc-driven rail gun
[AD-A134991] 08 p1152 N84-17499
Iron and steel (selected articles)
[AD-A135576] 09 p1282 N84-18376
The effect of pressure on complex heat exchange in a channel with an electric arc
[BLL-OA-TRANS-3090-(6196.3)] 09 p1311 N84-18569
New techniques for medium voltage SF6 switches
[CAHIERS-TECHNIQUES-121] 10 p1488 N84-19726
Direct digital control of the electric arc furnace
[RR-233] 13 p1974 N84-22811
Reduced electric reactance for electric arc furnace
[BMFT-FB-T-83-303] 15 p2328 N84-24976
Rotating arc cutoff with a Fluarc switch or a Rollarc contactor in SF6
[CAHIERS-TECHNIQUES-123] 15 p2330 N84-24993
Development of a solid-state circuit breaker concept
[DE84-009110] 15 p2414 N84-25493
Simulation of electromagnetic instabilities of high-voltage gaps
[DE84-010624] 18 p2812 N84-27851
Stabilized luminous arcs (rotating arcs) in nitrogen and carbon dioxide at pressures of one to forty atmospheres
[NASA-TM-77506] 19 p3012 N84-29095
Some considerations on silicone oil in high-current and energy-disconnecting mechanisms
[DE84-011021] 20 p3180 N84-30203
Electric arc saw apparatus
[DE84-006153] 20 p3198 N84-30308
A review of anode phenomena in vacuum arcs
[DE84-012371] 21 p3395 N84-31547
Further effects of ions in the arcs
[DE84-011761] 21 p3495 N84-32149
Dual arc penning ion source gas flow experiments
[DE84-011637] 21 p3495 N84-32151
Breakdown processes in large-area cold-cathode vacuum triodes
[DE84-014026] 22 p3602 N84-32817
Experimental research on electric propulsion. Note 5: Experimental study of a magnetic field stabilized arc-jet
[NASA-TM-77474] 23 p3826 N84-34266

ELECTRIC AUTOMOBILES
Iron-air battery development
[DE83-015842] 01 p0073 N84-10482
Design analysis of an aluminum-air battery for vehicle operations: Transportation systems research
[DE83-014488] 01 p0163 N84-11071
Ragone characteristics of aqueous mobile batteries and their application in projecting ranges of electric vehicles
[DE83-014701] 03 p0404 N84-12642
Baseline and verification tests of the electric vehicle associates' current fare station wagon
[AD-A132549] 04 p0617 N84-14072
Additive for zinc electrodes — electric automobiles
[NASA-CASE-LEW-13286-1] 05 p0673 N84-14422

Hybrid vehicle simulation
[AD-A136950] 10 p1594 N84-20445
Advanced electrochemical energy storage systems
[DE84-008245] 15 p2364 N84-25184
Aluminum-air power cell research and development
[DE84-008328] 15 p2365 N84-25188
Electric vehicle modeling and simulation
[AD-A139719] 15 p2420 N84-25535
Testing and evaluation of JET electric vehicle models, 600, 1000, and 1000P
[AD-A141187] 18 p2849 N84-28090
Evaluation of 96V exide EPV23-3 battery pack at temperature extremes
[PB84-187749] 20 p3182 N84-30218
TVA and the electric vehicle
[DE84-900907] 20 p3318 N84-31065
Recent results from the National Battery Test Laboratory
[DE84-012110] 22 p3588 N84-32729
Nickel-iron battery system safety
[NASA-CR-173937] 23 p3790 N84-34035

ELECTRIC BATTERIES
NT ALKALINE BATTERIES
NT DRY CELLS
NT LEAD ACID BATTERIES
NT METAL AIR BATTERIES
NT NICKEL CADMIUM BATTERIES
NT NICKEL HYDROGEN BATTERIES
NT NICKEL IRON BATTERIES
NT NICKEL ZINC BATTERIES
NT PRIMARY BATTERIES
NT REDOX CELLS
NT SILVER HYDROGEN BATTERIES
NT SILVER ZINC BATTERIES
NT SODIUM SULFUR BATTERIES
NT STORAGE BATTERIES
NT THERMAL BATTERIES
NT ZINC-BROMIDE BATTERIES
NT ZINC-CHLORINE BATTERIES
Electrochemical characteristics of lithium-silicon alloy electrodes for high-temperature-battery applications
[DE83-014343] 01 p0039 N84-10244
New fabrication process for a tubular LiAl/FeS cell battery
[DE83-014305] 01 p0074 N84-10488
Anodic films
[DE83-016603] 01 p0075 N84-10492
Electrochemical-Storage-Systems Program summary
[DE83-011254] 01 p0075 N84-10493
Seperators for lithium alloy-iron sulfide fused-salt batteries
[DE83-016203] 02 p0215 N84-11406
Development of maintenance-free lead batteries
[BMFT-FB-T-83-150] 02 p0216 N84-11419
Evaluation of low melting halide systems for battery applications
[AD-A131330] 02 p0242 N84-11582
Membranes and separators for flowing-electrolyte batteries: A review
[DE83-016246] 02 p0242 N84-11586
Evaluation of a draft standard on performance specifications for health physics instrumentation
[DE83-016186] 02 p0266 N84-11750
Tubular battery and transistorized controller outdoor laboratory test program
[DE83-016231] 02 p0304 N84-11995
Charge characteristics of Ni/Fe traction cells
[DE83-014205] 03 p0367 N84-12389
Comparative response of lead-acid and nickel-iron batteries to pulsed and constant-current loads
[DE83-017939] 03 p0368 N84-12395
Battery transport data
[DE84-001640] 04 p0526 N84-13462
Annotated bibliography of battery evaluations
[DE84-000653] 04 p0527 N84-13466
Principles of superionic conduction
[DE84-001215] 04 p0613 N84-14044
Improved generator for use with low-speed rotating machines
[DE84-000375] 05 p0676 N84-14448
USAF advanced terrestrial energy study. Volume 1: Project summary
[AD-A133803] 05 p0699 N84-14588
Calcium-thionyl chloride battery technology
[AD-A133570] 06 p0830 N84-15401
Development of new intercalated cathode materials for use in sodium batteries
[NASA-CR-173145] 07 p0997 N84-16460
Fundamental mathematical principles for electrochemical engineering
[DE84-002181] 08 p1221 N84-17975
Electric Remotely Piloted Vehicle (ERPV)
[AD-A136201] 09 p1310 N84-18563
Synthesis of Co2+ and Ni2+ stabilized beta alumina
11 p1744 N84-21378
Discussion of cosmonaut EVA for solar battery installation
12 p1774 N84-21571
Details of cosmonauts' installation of solar batteries
12 p1774 N84-21572
Testing of sealed lead-acid batteries
[DE84-008209] 14 p2141 N84-23840
Electric and Hybrid Vehicles Program. Report to Congress for fiscal year 1983
[DE84-007792] 14 p2249 N84-24511
Performance tests of 4-5 year old lithium sulphur dioxide batteries
[AD-A139842] 15 p2363 N84-25176
Advanced electrochemical energy storage systems
[DE84-008245] 15 p2364 N84-25184
Aluminum-air power cell research and development
[DE84-008328] 15 p2365 N84-25188
Use of the Li-Al/FeS battery in advanced vehicle propulsion systems
[DE84-007275] 15 p2421 N84-25538
Space power technology into the 21st Century
[NASA-TM-83690] 17 p2616 N84-26746
Long cycle life secondary lithium cells utilizing tetrahydrofuran
[AD-A140762] 17 p2723 N84-27331
Testing and evaluation of JET electric vehicle models, 600, 1000, and 1000P
[AD-A141187] 18 p2849 N84-28090
Bottom-mounted profiling winch
[AD-A141808] 19 p3032 N84-29230
Advanced battery development in the US
[DE84-010505] 20 p3179 N84-30190
Effect of charging methods on battery electrodes
[DE84-010287] 20 p3179 N84-30196
Transport properties of concentrated solutions
[DE84-008495] 20 p3181 N84-30210
Evaluation of 96V exide EPV23-3 battery pack at temperature extremes
[PB84-187749] 20 p3182 N84-30218
Battery Energy Storage Test (BEST) facility
[DE84-012127] 20 p3237 N84-30548
Batteries and accumulators for future Aerospatiale projects
[SNIAS-841-422-111] 21 p3355 N84-31282
AC propulsion system for an electric vehicle, phase 2
[NASA-CR-168244] 21 p3390 N84-31514
Automatic digital battery cell capacitance measurements
[AD-A143143] 21 p3392 N84-31523
Active material redistribution rates in zinc electrodes: Effect of alkaline electrolyte compositions having reduced zinc oxide solubility
[DE84-010709] 21 p3392 N84-31525
Enhanced low-temperature performance of a multicell LiSOC1sub2 battery
[DE84-011680] 21 p3394 N84-31537
Glass electrolytes for sodium/sulfur cells
[DE84-013428] 21 p3394 N84-31539
Study of bipolar batteries
[DE84-013193] 21 p3394 N84-31540
Test and evaluation of the Philips Model PE 1701 and Lester Model 9865 electric vehicle battery chargers
[DE84-901243] 21 p3394 N84-31541
Multicell LiSOCl sub 2 reserve battery
[DE84-012812] 21 p3395 N84-31542
A computerized system for establishing electric-vehicle battery requirements
[DE84-011728] 21 p3395 N84-31545
Lithium-alloy/metal sulfide battery research
[DE84-013427] 22 p3587 N84-32720
Effects of standtime on the available capacity of lead-acid and nickel/iron electric vehicle batteries
[DE84-013452] 22 p3587 N84-32721
Recent results from the National Battery Test Laboratory
[DE84-012110] 22 p3588 N84-32729
General energy balance for battery systems
[DE84-013235] 22 p3589 N84-32731
Review of flow battery testing at Sandia
[DE84-011186] 22 p3589 N84-32734
Electrode-active material for electrochemical batteries and method of preparation
[DE84-014508] 22 p3590 N84-32739
Battery Computer System (BCS) human factors field evaluation
[AD-A143425] 22 p3638 N84-33062
Characterization of open circuit voltage and capacity as a function of time
23 p3736 N84-33673
Special test methods for batteries
23 p3738 N84-33695
Battery Material Symposium
[AD-A143815] 23 p3742 N84-33717
Evaluation of aircraft battery charge, discharge, and analyzation requirements for ground support equipment
[AD-A144243] 24 p3897 N84-34678
Solid state batteries, literature survey, analysis of pertinent results and prospective for further research
[AD-A144252] 24 p3897 N84-34679

ELECTRIC BRIDGES
NT WHEATSTONE BRIDGES
Phase-slip centers and their interactions
[AD-A130914] 01 p0153 N84-11006
Transient response of superconducting microbridges to supercritical currents
[AD-A130913] 01 p0153 N84-11007
An FET full-bridge switcher for inductorless capacitor charging for Nova
[DE83-018005] 04 p0528 N84-13471
The 240-kA switch with potential application in electromagnetic-launch systems
[DE84-001174] 05 p0677 N84-14449
The 25 kW resonant dc/dc power converter
[NASA-CR-168273] 08 p1149 N84-17481
Test techniques for model development of repetitive service energy storage capacitors
[DE84-004312] 11 p1674 N84-20925
A reassessment of the measurement uncertainty of the XT-90 twin T dual admittance bridge
[AD-A139253] 16 p2483 N84-25923
A study of the high frequency limitations of series resonant converters
[NASA-CR-173868] 22 p3581 N84-32678
Theoretical and experimental studies of error in square-law detector circuits
[NASA-TM-86307] 23 p3741 N84-33714

ELECTRIC CHARGE
NT ELECTRIC DIPOLES
NT ELECTROSTATIC CHARGE
NT ION CHARGE
NT SPACE CHARGE
Analytical evaluation of the potential due to a uniformly charged planar triangular region
[AD-A130810] 01 p0138 N84-10907
Charge characteristics of ion-implanted and annealed nitride/oxide/Si structures
[DE83-012625] 01 p0153 N84-11009
Hadronic multiplicity distributions: Example of a universal stochastic mechanism
[DE83-015232] 03 p0434 N84-12845
Metastable superconducting pairs with large momentum
[AD-A136246] 09 p1385 N84-19045
Charge storage in doped poly(thiophene)
[AD-A137085] 10 p1455 N84-19506
Nonlinear dynamic polarization force on a relativistic test particle in a nonequilibrium beam-plasma system
[AD-A136768] 10 p1577 N84-20331
A study of the rechargeability of the Red Camel lead-acid battery between +20 deg C and -30 deg C
[AD-A137635] 11 p1646 N84-20764
Study of the effect of adsorbed ions on the electrosorption of organic molecules and the kinetics of formation of condensed films
[AD-A137892] 11 p1730 N84-21286
Impedance relaxation spectrum analysis of oxidized silver electrodes
[AD-A138380] 12 p1793 N84-21693
Performance of the Lester battery charger in electric vehicles
[NASA-CR-173726] 18 p2833 N84-27982
The design and testing of an electrolyte destratification system applied to a 96 V Alco 2200 battery
[PB84-184894] 20 p3237 N84-30550
Automatic digital battery cell capacitance measurements
[AD-A143143] 21 p3392 N84-31523
Nickel cadmium charge control concepts — ampte cram
23 p3738 N84-33688
Deep reconditioning testing for near Earth orbits
23 p3736 N84-33689
Factors affecting nickel-oxide electrode capacity in nickel-hydrogen cells
23 p3739 N84-33699

ELECTRIC CHOPPERS
Development of a new charger system
[BMFT-FB-T-83-305] 15 p2328 N84-24977
Chopper spectrometers
[DE84-009205] 19 p3026 N84-29193

ELECTRIC CIRCUITS
U CIRCUITS

ELECTRIC COILS
NT MAGNETIC COILS
Storage of energy in magnetic field of superconductive coils
[AD-A131898] 03 p0403 N84-12638
Calculating the magnetic field from a saddle-shaped coil without a ferromagnetic circuit
[AD-A134776] 08 p1226 N84-18011
Optimized baffle and aperture placement in neutral beamlines
[DE84-003746] 09 p1388 N84-19062

Shaft transducer having dc output proportional to angular velocity
[NASA-CASE-NPO-15706-1] 18 p2838 N84-28017
Alternative power supply and dump resistor connections for similar, mutually coupled, superconducting coils
[DE84-012602] 21 p3393 N84-31534
Phase sensitive guidance sensor for wire-following vehicles
[NASA-CASE-NPO-15341-1] 23 p3750 N84-33769
Pulsed inductive energy store
[AD-A144282] 24 p3916 N84-34796

ELECTRIC CONDUCTORS
Intercalated graphite electrical conductors 01 p0010 N84-10064
Transmission lines with very lossy conductors and seawater return
[AD-A130739] 01 p0065 N84-10427
Supplemental grounding of extending EMP collectors
[AD-A131255] 01 p0067 N84-10440
Development of a point-electrode conductivity salinometer with high-spatial-resolution for use in very-saline solutions
[DE83-011170] 01 p0085 N84-10550
Electroactive heterocyclic polymers
[DE83-013592] 02 p0200 N84-11305
MM and T: Ceramic metal substrates for hybrid electronics
[AD-A132514] 04 p0505 N84-13313
Computation of the temperature distribution due to eddy-currents in the wall of a power transformer
[PB83-217273] 06 p0831 N84-15410
Influence of cation stoichiometry on the electrical conductivity and high-temperature stability of MgO:Al/sub 2O/sub 3 spinel
[DE84-003305] 07 p0980 N84-16348
Membrane separators for circulating electrolyte storage batteries
[DE84-002106] 07 p0998 N84-16471
Characterization of high temperature electrically conducting oxides
[DE84-002887] 08 p1236 N84-18076
Effects of particle size distribution in thick film conductors 12 p1839 N84-21991
Polymer thick-film conductors and dielectrics for membrane switches and flexible circuitry 12 p1840 N84-21994
Metallization with generic metallo-organic inks 12 p1840 N84-21996
Transparent conductive coatings 12 p1840 N84-21999
The influence of ground conductivity on the structure of RF radiation from return strokes
[NASA-TM-86065] 12 p1860 N84-22117
Solar cell characterization by photocapacitance
[DE84-008215] 14 p2143 N84-23849
Intercomparison of zinc freezing point cells and standard platinum resistance thermometers
[DE84-007440] 14 p2149 N84-23875
The application of the black electrically conductive coating CHEMGLAZE H322
[ESA-PSS-01-734-ISSUE-1] 16 p2471 N84-25834
On the scattering of electromagnetic waves by perfectly conducting bodies moving in vacuum. Part 2: Scattering by stationary perfect conductors
[AD-A141548] 19 p3005 N84-29047
Ceramic to metal attachment system — magnetohydrodynamic generators
[DE84-011095] 20 p3163 N84-30085
Glass electrolytes for sodium/sulfur cells
[DE84-013426] 21 p3394 N84-31539
Electronically conductive ceramics for high temperature oxidizing environments
[DE84-014506] 22 p3561 N84-32549
Electrode-active material for electrochemical batteries and method of preparation
[DE84-014508] 22 p3590 N84-32739

ELECTRIC CONNECTORS
Minutes of FSC 5935, Connector Standardization Planning Meeting
[AD-A130681] 01 p0072 N84-10467
Electrical self-aligning connector --- orbital servicer vehicles
[NASA-CASE-MFS-25211-2] 05 p0673 N84-14423
Derated application of parts for (Electronic System Division) systems development
[AD-A133880] 05 p0674 N84-14429
Microcomputer networking: A CP/M-Based application
[AD-A134124] 05 p0718 N84-14707
A modular twin bus microprocessor system for laboratory automation
[AD-A133372] 06 p0896 N84-15815
The C-squared system: A general-purpose neuron network model
[AD-A136191] 09 p1304 N84-18524
Cabling and connectors technology working group report IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A137330] 10 p1504 N84-19828
General Purpose Bus Interface Unit (GPBIU) system test software design
[AD-A138005] 12 p1770 N84-21543
Characterization of microstrip fixtures, a broadband model for a microstrip connector
[FOA-C-30338-E] 12 p1814 N84-21824
Restructurable VLSI program
[AD-A139959] 15 p2329 N84-24987
The crimping of high-reliability electrical connections
[ESA-PSS-01-726-ISSUE-1] 16 p2485 N84-25937
Demountable coaxial electrical connector for in-line amplifiers
[AD-D011074] 19 p3017 N84-29128
Modeling and extraction of interconnect parameters in very-large-scale integrated circuits
[AD-A142381] 20 p3178 N84-30182
MIL-STD-1760 development program
[AD-P003526] 21 p3330 N84-31130
Aircraft-store Electrical Interconnection System (AEIS) functional requirements
[AD-P003527] 21 p3330 N84-31131
Signal set standardization for the aircraft-store electrical interconnection system
[AD-P003528] 21 p3330 N84-31132
Consideration of MIL-STD-1760, aircraft/store electrical interface standard on stores management system architectures
[AD-P003529] 21 p3331 N84-31133
Multi-criteria approach to selection of optimal connections in large-scale integrated circuits 21 p3378 N84-31436
Source circuit design considerations 22 p3583 N84-32690

ELECTRIC CONTACTS
Design and testing of high performance brushes
[AD-A131348] 02 p0213 N84-11394
Effect of environment and materials properties on the friction and wear behavior of precious metal electrical contact alloy couples
[DE83-010403] 02 p0215 N84-11409
Containerless electromagnetic levitation melting of Cu-Fe and Ag-Ni alloys
[NASA-TM-82553] 03 p0352 N84-12288
Scientific-Technical Conference on Acyclic Electric Machines
[AD-A131880] 03 p0366 N84-12381
Thermal conductance measurements of pressed OFHC copper contacts at liquid helium temperatures
[NASA-TM-85861] 03 p0429 N84-12809
Horizons of technology (selected articles)
[AD-A131897] 03 p0476 N84-13135
A rectangular gate merged MOSBJT
[AD-A132450] 04 p0525 N84-13453
Update of pulsed-laser processing technology for high-efficiency silicon solar cells
[DE84-000638] 04 p0559 N84-13684
Sliding electric contacts in space: Observations on existing technology and new trends in low-speed applications 09 p1294 N84-18455
Ohmic contacts, irradiation effects, and thin film growth of GaAs and Al sub 1-x Ga sub x As
[NASA-CR-173257] 09 p1393 N84-19096
Ohmic versus rectifying contacts of Au to n-GaAs by ion sputtering 09 p1393 N84-19097
Magnetron sputtered gold contacts on n-GaAs 09 p1393 N84-19098
Development of contact materials based on Ag made by powder metallurgy
[BMFT-FB-T-83-248] 10 p1463 N84-19557
Fundamentals of metal-semiconductor contacts 12 p1838 N84-21985
Getting the current out 12 p1838 N84-21986
Diffusion barriers 12 p1839 N84-21987
Metallization problems with concentrator cells 12 p1839 N84-21990
New integrated circuit technology 14 p2136 N84-23804
Development of high-efficiency concentrator cell configuration
[DE84-008356] 14 p2173 N84-24012
Improving slipring performance 15 p2347 N84-25086
Unipolar electric machines with liquid-metal current pickup
[AD-A139778] 16 p2484 N84-25932
Two algorithms for the contact problem in elastostatics, 1982
[PB83-147678] 20 p3275 N84-30793
Formation of silicide contacts using codeposited refractory metals alloy films
[AD-A142879] 21 p3391 N84-31519
Josephson point contacts noise properties at microwave 22 p3569 N84-32602
Grounding ring for shielded cable
[AD-D011135] 22 p3581 N84-32675
Process for forming pure silver ohmic contacts to N- and P-type gallium arsenide materials
[DE84-014515] 23 p3831 N84-34298
Development of metallization process: FSA project, cell and module formation research area
[NASA-CR-173996] 24 p3884 N84-34609
MOD silver metallization for photovoltaics
[NASA-CR-173975] 24 p3884 N84-34610

ELECTRIC CORONA
Effects of nozzle and grid acceleration of corona wind on cooling of a vertical flat plate
[AD-A141224] 18 p2837 N84-28007

ELECTRIC CURRENT
NT ALTERNATING CURRENT
NT ARC DISCHARGES
NT AURORAL ELECTROJETS
NT BEAM CURRENTS
NT DIRECT CURRENT
NT EDDY CURRENTS
NT ELECTRIC ARCS
NT ELECTRIC CORONA
NT ELECTRIC DISCHARGES
NT ELECTROJETS
NT EQUATORIAL ELECTROJET
NT FLASHOVER
NT GAS DISCHARGES
NT GLOW DISCHARGES
NT HIGH CURRENT
NT IONOSPHERIC CURRENTS
NT LIGHTNING
NT LINE CURRENT
NT MERCURY ARCS
NT MULTIPACTOR DISCHARGES
NT PENNING DISCHARGE
NT PLASMA CURRENTS
NT RADIO FREQUENCY DISCHARGE
NT RING CURRENTS
NT SHORT CIRCUIT CURRENTS
Properties of grey cast iron treated with pulsating current during inoculation
[BLL-M-35118-(5828.4)] 01 p0040 N84-10252
Zinc/bromine prototype-batteries evaluation
[DE83-011861] 01 p0072 N84-10473
Development and fabrication of an augmented power transistor
[NASA-CR-168262] 02 p0212 N84-11388
Hybrid power semiconductor switch
[NASA-CASE-LEW-13922-1] 02 p0212 N84-11389
Radiation testing of the CMOS 8085 microprocessor family
[DE83-014604] 02 p0271 N84-11771
Single-mode fiber-optic sensor for high currents
[DE83-014163] 02 p0295 N84-11933
Power-loading effects in gas-discharge models
[DE83-016504] 03 p0368 N84-12393
Evaluation of the Beijing Instrument Factory GDB-44F photomultiplier
[DE84-000849] 03 p0368 N84-12398
Phonon-induced enhancements of the energy gap and critical current in superconducting aluminum
[DE83-015210] 03 p0455 N84-12996
Fields and currents and charges on obstacles in a parallel-plate simulator at selected frequencies and with pulse excitation
[AD-A132406] 04 p0520 N84-13418
Variational theory of RF-driven currents
[DE83-016745] 04 p0609 N84-14022
Loop coalescence in flares and coronal X-ray brightening
[DE83-013070] 04 p0621 N84-14099
Investigation on low pressure limit of Bayard-Alpert gauge
[DE84-002578] 05 p0685 N84-14502
Beam processing for high-efficiency Si solar cells
[DE84-002059] 06 p0874 N84-15690
Rail accelerator development for ultra-high pressure research
[DE84-002452] 07 p0960 N84-16223
Engineering aspects of disruption current decay
[DE84-002995] 07 p1076 N84-16998
Human reactions to transient electric currents, volume 8
[PB84-112895] 08 p1202 N84-17834
Assessment methodology for the A-7E: Scale model coupling experiments
[DE84-003139] 09 p1256 N84-18199
Critical current of the dispersion superconducting phase, obtained during aging
[AD-A136024] 09 p1396 N84-19118
Computation of current-voltage-characteristics in a semiconductor device using arc-length continuation
[AD-A137919] 11 p1647 N84-20770

Measurement of the characteristic impedance of balanced twisted pairs using scattering parameters
11 p1725 N84-21250
Evaluation of foam-skin cables for aerial applications
11 p1725 N84-21252
Computer simulation of reconnection in planetary magnetospheres
[DE84-001389] 11 p1758 N84-21479
Getting the current out 12 p1838 N84-21986
Electromagnetic coupling between a conducting body and an aperture in an infinite conducting plane
[AD-A138394] 12 p1898 N84-22361
Fine line electromigration. The effect of crossed thermal gradients
[AD-A138854] 13 p2046 N84-23279
Space plasma high-voltage drainage experiment (A0054) 15 p2274 N84-24655
Corrosion of aluminium caused by alternating current
[BLL-ERA-TRANS-2920] 17 p2621 N84-26776
Effect of multifold trapping of carriers on transient photocurrent in amorphous semiconductors
17 p2635 N84-26860
The electroplastic effect in metals
[AD-A141526] 19 p2994 N84-28971
Green's function for a dielectric wave-guide filled with a dispersion medium
[ISSN-0208-5658] 19 p3003 N84-29032
Excitation of quasi-static magnetic fields in axial structures 20 p3287 N84-30873
Measurement techniques for high-power semiconductor materials and devices
[DE84-010425] 20 p3309 N84-31016
Steady state performance of single-phase reaction motor 21 p3476 N84-32035
Irradiation of optimized, MBE grown, AlGaAs radiation hardened photodiode
[DE84-008034] 21 p3504 N84-32208
Dynamics of normal-zone propagation in Ta at small currents
[DE84-009990] 22 p3666 N84-33245
Observations of ramped current operation in ZT-40M
[DE84-015076] 23 p3829 N84-34286

ELECTRIC DIPOLES
Bistatic radar cross sections of chaff
[AD-A133967] 05 p0667 N84-14384
Radiating dipole model of interference induced in spacecraft circuitry by surface discharges
[NASA-TP-2240] 07 p0964 N84-16247
Coupling between 2 arbitrarily oriented dipoles through multilayered shields
[AD-A137129] 10 p1478 N84-19660
Buried antenna analysis at VHF. Part 1: The buried horizontal electric dipole
[AD-A138068] 12 p1806 N84-21774
Exact image theory for the Sommerfeld half-space problem with a vertical electric di-pole
[REPT-S-144] 15 p2320 N84-24926
Electric-dipole moment of CaF by molecular-beam, laser-RF, double-resonance study of Stark splittings
[DE84-005413] 15 p2405 N84-25439
Bistatic radar cross sections of horizontally oriented chaff
[AD-A140903] 17 p2654 N84-26975
Rare-earth ion-host lattice interactions: 15. Analysis of the spectra of Nd3+ in Gd3Sc2Ga3O12
[AD-A142555] 20 p3309 N84-31015

ELECTRIC DISCHARGES
NT ARC DISCHARGES
NT ELECTRIC ARCS
NT ELECTRIC CORONA
NT FLASHOVER
NT GAS DISCHARGES
NT GLOW DISCHARGES
NT LIGHTNING
NT MERCURY ARCS
NT MULTIPACTOR DISCHARGES
NT PENNING DISCHARGE
NT RADIO FREQUENCY DISCHARGE
A field of pressures of shock waves during a powerful underwater discharge
[AD-A130084] 01 p0078 N84-10510
Thermal energy storage evaluation and life testing
[NASA-CR-174464] 01 p0102 N84-10660
Optical emission of exploding-film and wire-initiated discharges
[DE83-014154] 02 p0223 N84-11466
Optically pumped ultraviolet and infrared lasers driven by exploding metal films and wires
[DE83-014169] 02 p0226 N84-11484
Update of pulsed-laser processing technology for high-efficiency silicon solar cells
[DE84-000638] 04 p0559 N84-13684
Compliance check on Japax electrical-discharge-wire machine
[DE84-001430] 05 p0676 N84-14447
Calculation of performance of an RF-excited transverse flow CO2 laser
[DFVLR-FB-83-06] 05 p0687 N84-14514
Evaluation of type 2 fast packs for electrostatic discharge properties
[AD-A133158] 06 p0853 N84-15557
Discharge kinetics of the nickel electrode
[AD-A134389] 07 p0970 N84-16263
Electrostatic discharge (ESD) simulator experiment (testing of some switches/relays for application to an ESD simulation circuit)
[AD-A134580] 07 p0998 N84-16488
Concept for a volume-type tandem three-chamber negative hydrogen ion source
[DE84-003338] 07 p1073 N84-16971
Human reactions to transient electric currents, volume 8
[PB84-112895] 08 p1202 N84-17834
Multi-small hole drilling by EDM — electrodischarge machining (EDM)
[PNR-90184] 13 p1975 N84-22813
A transmission line bridge for the diagnostics of plasma channels
[AD-A139286] 14 p2228 N84-24362
Theory of beam channel hydrodynamics
[AD-A139595] 14 p2229 N84-24365
Summary of environmentally induced electrical discharges on the P78-2 (SCATHA) satellite
[AD-A140077] 15 p2282 N84-24705
Channel cooling by turbulent convective mixing
[AD-A139724] 15 p2410 N84-25466
Characteristics of a plasma-injection-controlled discharge for CO2 mixing lasers
[MRL-R-922] 16 p2497 N84-26020
Microwave discharges in capillary tubes
[LP-203] 16 p2558 N84-26410
Stochastic modeling of EDM with a view to off-line optimization
[PB84-162296] 17 p2639 N84-26885
Laboratory discharge studies of a 6 V alkaline lantern-type battery Eveready Energizer no. 528, under various ambient temperatures (-15 deg C and + 22 deg C) and loads (30 omega and 60 omega)
18 p2800 N84-27772
Plasma discharge chemistry
[AD-A141033] 18 p2932 N84-28596
Diagnostics of a high current capillary discharge
[DE84-011369] 20 p3179 N84-30194
Electron emitting filaments for electron discharge devices
[DE84-011098] 20 p3180 N84-30201
Some considerations on silicone oil in high-current and energy-disconnecting mechanisms
[DE84-011021] 20 p3180 N84-30203
Negative ion formation in SF6 spark by-products
[DE84-012340] 20 p3181 N84-30212
EValuation of a 96V EV 1000 battery pack at temperature extremes
[PB84-187723] 20 p3182 N84-30217
Evaluation of an 96V ALCO 2200 battery pack at temperature extremes
[PB84-187731] 20 p3182 N84-30219
Inductively stabilized, long pulse duration transverse discharge apparatus
[DE84-011301] 20 p3193 N84-30281
Inductively stabilized excimer lasers
[DE84-011371] 20 p3194 N84-30284
The design and testing of an electrolyte destratification system applied to a 96 V Alco 2200 battery
[PB84-184894] 20 p3237 N84-30550
Electron charging and SGEMP (System Generated Electromagnetic Pulse) studies on satellite dielectrics
[AD-A143012] 21 p3353 N84-31268
Plasma discharge elemental detector for a mass spectrometer
[DE84-011078] 21 p3406 N84-31604
Pulsed hydrogen-fluoride laser
[MRL-R-831] 22 p3600 N84-32803
Particle environment — solar arrays and electric discharges
[NASA-CR-173888] 22 p3661 N84-33210
Testing of candidate batteries for global positioning system 23 p3736 N84-33677
High rate discharge studies of Li/SO2 batteries
23 p3737 N84-33680
Shunt diode designs in Li/CF Shuttle batteries
23 p3737 N84-33681
Severe storm electricity 24 p3927 N84-34860
Plasma conductivity experiments on pulsed high-voltage discharges by two coil RF-probe
[AD-A144595] 24 p3965 N84-35110

ELECTRIC ENERGY STORAGE
USAF advanced terrestrial energy study. Volume 3: Parameter survey
[AD-A133501] 06 p0874 N84-15685
Kinetic energy accumulator applications to electric vehicles
[SNIAS-831-422-101] 07 p1088 N84-17074

ELECTRIC EQUIPMENT
Unipolar machine with superconductive excitation winding
[AD-A131820] 03 p0366 N84-12383
Compliance check on Japax electrical-discharge-wire machine
[DE84-001430] 05 p0676 N84-14447
Performance criteria guideline for three explosion protection methods of electrical equipment rated up to 15,000 volts AC
[NASA-TM-85528] 17 p2640 N84-26887

ELECTRIC EQUIPMENT TESTS
Broadband electromagnetic interference testing for vehicles and electrical subsystems - noncommunications
[AD-A134087] 05 p0666 N84-14381
Electrical subsystems flight test handbook
[AD-A139783] 15 p2260 N84-24576

ELECTRIC FIELD STRENGTH
Electrochemical-treeing (ECT) structures in high-voltage cable insulation
[BMFT-FB-T-83-087] 02 p0215 N84-11413
Electric field distortion in electro-optical devices subjected to ionizing radiation
[AD-A136573] 09 p1308 N84-18549
An experimental study of praseodymium intermetallic compounds at low temperatures
[DE83-704748] 24 p3884 N84-34612

ELECTRIC FIELDS
NT EXTERNAL SURFACE CURRENTS
Evidence of East-West structure in large-scale F-region plasma enhancements in the auroral zone
[AD-A131263] 01 p0106 N84-10689
Hy-wire and fast electric field change measurements near an isolated thunderstorm, appendix C
[NASA-TM-85072] 01 p0107 N84-10692
Effects of vane-tip geometry on the electric fields in radio-frequency quadrupole linacs
[DE83-013214] 01 p0143 N84-10937
Vertical mapping of quasistatic and large scale ionospheric electric fields in low latitudes
[INPE-2838-PRE/385] 02 p0247 N84-11618
Auroral arc classification scheme based on the observed arc-associated electric field pattern
[TRITA-EPP-83-01] 02 p0251 N84-11641
Application of the Lienard-Wiechert solution to a lightning return stroke model
[NASA-TM-85082] 02 p0253 N84-11658
The effects of channel tortuosity on electromagnetic radiations from lightning return strokes
03 p0359 N84-12335
Scale lengths in quasi-parallel shocks
[NASA-TM-85109] 03 p0407 N84-12663
Eruption of permanent dentition in rhesus monkeys exposed to ELF (Extremely low frequency) fields
[AD-A132065] 03 p0413 N84-12703
Temperature dependence of the electric-field gradient in Er metal
[DE83-015564] 03 p0454 N84-12989
Studies of ions in a drift field: Laser diagnostics of excited states and measurements of thermochemical properties at equilibrium
[DE84-000363] 04 p0541 N84-13562
Interaction of a stream of dielectric spheres in an electric field in a high vacuum
[DE83-013695] 04 p0600 N84-13958
Electrical and magnetic properties of the energy-saver correction elements
[DE83-017327] 04 p0603 N84-13983
Locally omnigenous tandem-mirror design
[DE84-001605] 04 p0607 N84-14007
Elektrotopograf experiment on Salyut-7
05 p0633 N84-14163
Three-dimensional magnetotelluric interpretation
05 p0706 N84-14632
Behavioral and prenatal effects of 60-Hz fields
[DE84-001126] 05 p0712 N84-14684
Human reactions to elf electric and magnetic fields: An annotated bibliography of current literature, 3rd edition
[PB83-259648] 05 p0714 N84-14679
Radiating dipole model of interference induced in spacecraft circuitry by surface discharges
[NASA-TP-2240] 07 p0964 N84-16247
Study plasma interactions in the auroral ionosphere
[NASA-CR-175352] 07 p1032 N84-16698
Spacecraft/plasma interactions and their influence on field and particle measurements — conferences
[ESA-SP-198] 08 p1115 N84-17253
The DC electric field in space: Direct measurements and inferences from cold plasma drifts
08 p1117 N84-17264
Development of power system measurements
[PB84-109891] 08 p1153 N84-17509

Crystal fields and second order magnetic hyperfine interactions in TmFe2Si2
[DE84-003622] 08 p1236 N84-18078
A dawn to dusk electric field in the Jovian magnetosphere
[NASA-CR-166463] 08 p1245 N84-18136
Some recent results in wave propagation
[DE84-003107] 10 p1482 N84-19686
Implications of the 1100 UT 22 March, 1979 CDAW 6 substorm event for the role of magnetic reconnection in the geomagnetic tail
[DE84-004335] 10 p1537 N84-20071
Nonlinear theory of the E x B instability with an inhomogeneous electric field
[AD-A137132] 10 p1569 N84-20277
The total field in collective bremsstrahlung in a nonequilibrium relativistic beam-plasma system
[AD-A136595] 10 p1585 N84-20391
Terrestrial whisker growth experiments which anticipate some special effects of a space station environment
[NASA-CR-175440] 11 p1627 N84-20647
General Electromagnetic Model for the Analysis of Complex Systems (GEMACS) computer code documentation (version 3), volume 3, part 2
[AD-A137464] 11 p1644 N84-20750
Surfatron laser-plasma accelerator: Prospects and limitations
[DE84-005497] 11 p1663 N84-20854
Lightning data analysis
[AD-A138136] 12 p1860 N84-22118
Biological effects from electric fields associated with high voltage transmission lines
[DE84-005498] 12 p1864 N84-22143
Biological effects of electric fields: An overview
[DE84-005888] 12 p1864 N84-22144
Magnetic field aligned electric fields
[TRITA-EPP-83-07] 12 p1922 N84-22521
Electromagnetic radiation and scattering from a system of conducting bodies interconnected by wires
13 p1984 N84-22882
An electrodynamic interpretation of virtual-cathode oscillations
[DE84-006001] 14 p2142 N84-23846
Three-dimensional computer modeling of dynamic reconnection in the magnetotail
[DE84-007480] 14 p2176 N84-24037
Effect of driving laser fluctuations on optical bistability
14 p2235 N84-24413
Effects of the radial variation of the electric field on some instabilities in lasers and in optical bistability
14 p2238 N84-24433
Bistability in optical waveguides
14 p2239 N84-24436
A probe for measuring spacecraft surface potentials using a direct-gate field effect transistor
[AD-A140024] 15 p2283 N84-24706
Prediction of field strengths near HF transmitters
[AD-B078278] 15 p2319 N84-24917
Biological effects of nonionizing electromagnetic radiation. Volume 8, Number 1: A digest of current literature
[AD-A139296] 15 p2380 N84-25283
Magnetohydrodynamic power generation
[NASA-TP-2331] 15 p2409 N84-25458
Structure formation in an electric field and the composition of electrorheological suspensions
[AD-B061902] 16 p2462 N84-25777
A laboratory investigation of the high-frequency Farley-Buneman instability
[NASA-CR-173435] 16 p2525 N84-26215
Production of plasma with variable, radial electric fields
[NASA-CR-173434] 16 p2558 N84-26413
Representative electromagnetic field intensities near the Clam Lake, Wisconsin and Republic, Michigan ELF (Extremely Low Frequency) facilities
[AD-A140798] 17 p2654 N84-26972
Influence of electric fields on potential waves in Earth's magnetosphere
17 p2705 N84-27225
Effect of electric field on build-up and annealing of E5-centers in GaAs
18 p2825 N84-27934
Role of charged state in build-up and annealing of deep centers in GaAs irradiated by protons
18 p2825 N84-27938
Effects of nozzle and grid acceleration of corona wind on cooling of a vertical flat plate
[AD-A141224] 18 p2837 N84-28007
Separating normal and anomalous fields using measurements in limited area 18 p2859 N84-28159
Regional natural electric fields and their prospecting significance 18 p2864 N84-28181
Tortuosity of lightning return stroke channels
[NASA-TM-86104] 18 p2883 N84-28295
Application of the direct simulation Monte Carlo method to mass spectrometer flow
[AD-A142326] 19 p3094 N84-29647
Drag on geodynamic satellites
19 p3118 N84-29818
Propagation loss in electrostatically variable SAW delay lines
[AD-A142433] 20 p3178 N84-30183
Meteorological research and support for the MIZEX (Marginal Ice Zone Experiment) program
[AD-A142409] 20 p3245 N84-30598
Impact of weak electric field on photoconductivity of modified vitreous As2Se3 20 p3286 N84-30867
RFQ radial matching sections and fringe fields
[DE84-011408] 20 p3295 N84-30920
High-gradient, pulsed operation of superconducting niobium cavities
[DE84-012498] 20 p3311 N84-31030
Statistical-mechanical study of polyvinylidene fluoride
[AD-A143040] 21 p3370 N84-31383
Lumped-circuit model of four vane RFQ resonator
[DE84-011343] 21 p3387 N84-31497
Suprathermal ions upstream of the Earth's bow shock
[DE84-012625] 21 p3444 N84-31855
Ion-molecule reactions and plasma parameters of positive column in oxygen glow discharge
21 p3476 N84-32036
Parametric excitation of transverse acoustic slot waves in solids by means of microwave electric field
21 p3478 N84-32045
Calculating electric fields in semiconductor structures when singularities are present 21 p3479 N84-32051
Resonance and edge amplification of an electric field in a plasma resonance layer and acceleration of particles at plasma inhomogeneities 21 p3483 N84-32073
Waveguide CO2 laser with 7.5 W power rating
21 p3487 N84-32098
Using ions to probe the transverse size of a bunch
[DE84-012772] 21 p3494 N84-32141
Azimuthal electric fields and tandem ambipolarity
[DE84-010843] 21 p3501 N84-32189
Mathematical model of electrostatic precipitation (revision 3). Volume 1: Modeling and programming
[PB84-212679] 22 p3549 N84-32469
Spatial electron density and electric field strength measurements in microwave cavity experiments
[NASA-CR-173907] 22 p3582 N84-32682
Studies of the electric field distribution in biological bodies: Experimental dosimetry at radio frequencies
[AD-A143507] 22 p3628 N84-32992
Time development of Cerenkov radiation
[AD-A143225] 22 p3653 N84-33155
Design, analysis and test verification of advanced encapsulation systems
[NASA-CR-173941] 23 p3789 N84-34028
Solutions of nonlinear equations of magneto-ionic theory
[ISSN-0208-5688] 23 p3794 N84-34059
Catastrophe in plasma focus evolution
[IPPJ-686] 23 p3826 N84-34268
Maxwell currents beneath thunderstorms
24 p3926 N84-34852

ELECTRIC FILTERS
NT CRYSTAL FILTERS
NT DIGITAL FILTERS
NT FIR FILTERS
NT MICROWAVE FILTERS
NT RADAR FILTERS
NT RADIO FILTERS
NT TRACKING FILTERS
NT WAVEGUIDE FILTERS
Second-order adaptive infinite impulse response filter
[DE84-001768] 06 p0631 N84-15406
Reliability modeling of critical electronic devices
[AD-A135705] 09 p1328 N84-18669
Axial-conductances angular filter investigation
[AD-A142802] 21 p3386 N84-31487

ELECTRIC FURNACES
Electrothermal production of magnesium
[CSIR-TRANS-1679] 01 p0039 N84-10250
High gradient directional solidification furnace --- for space processing
[NASA-CASE-MFS-25963-1] 07 p1007 N84-16531
Tantalum-copper alloy and method for making
[DE84-011081] 20 p3155 N84-30037

ELECTRIC FUSES
Arcing phenomena in high voltage fuses
[EUT-83-E-137] 10 p1489 N84-19736
Stability of fuses under cyclic load
17 p2639 N84-26882
Solid state power controller fuse development program
[AD-A142118] 19 p3016 N84-29118
Performance and test criteria for dc fuses, phase 1
[PB84-202662] 21 p3395 N84-31548

ELECTRIC GENERATORS
NT AC GENERATORS
NT ALKALINE BATTERIES
NT DIRECT POWER GENERATORS
NT DRY CELLS
NT DYNAMOMETERS
NT FUEL CELLS
NT HOMOJUNCTIONS
NT HOMOPOLAR GENERATORS
NT HYDROGEN OXYGEN FUEL CELLS
NT MAGNETOHYDRODYNAMIC GENERATORS
NT METAL AIR BATTERIES
NT NICKEL ZINC BATTERIES
NT PHOSPHORIC ACID FUEL CELLS
NT PHOTOELECTRIC GENERATORS
NT PRIMARY BATTERIES
NT RADIOISOTOPE BATTERIES
NT REGENERATIVE FUEL CELLS
NT ROTATING GENERATORS
NT SOLAR BLANKETS
NT SOLAR CELLS
NT SOLAR GENERATORS
NT THERMAL BATTERIES
NT THERMIONIC CONVERTERS
NT THERMOELECTRIC GENERATORS
NT TURBOGENERATORS
Aircraft Electric Secondary Power
[NASA-CP-2282] 01 p0009 N84-10055
High-voltage (270 V) dc power-generating system for fighter aircraft 01 p0010 N84-10057
Secondary electric power generation with minimum engine bleed 01 p0010 N84-10059
Primary electric power generation systems for advanced-technology engines 01 p0010 N84-10060
Installation of electric generators on turbine engines
01 p0010 N84-10061
Permanent-magnet motors and generators for aircraft
01 p0010 N84-10062
DC-link approach to constant-frequency aircraft power
01 p0011 N84-10068
Cycloconverter on the all-electric airplane
01 p0011 N84-10069
Design of a 20-MJ coaxial generator
[DE83-014152] 01 p0073 N84-10481
Permanent magnet generator rotor containment study
[AD-A131252] 01 p0138 N84-10908
Super integrated power unit for fighter aircraft
03 p0335 N84-12183
Implementing microprocessor technology in aircraft electrical power generating system control
03 p0336 N84-12185
Synchronous generators with superconductive excitation windings
[AD-A131832] 03 p0366 N84-12382
Steam turbine as unipolar generator
[AD-A131142] 03 p0383 N84-12498
MOD-2 wind turbine development
[NASA-TM-83460] 04 p0557 N84-13670
Control system for an induction motor with energy recovery
[NASA-CASE-MFS-25477-1] 05 p0673 N84-14424
Improved generator for use with low-speed rotating machines
[DE84-000375] 05 p0676 N84-14448
Utilization of low temperatures in electrical machines
[AD-A133325] 06 p0830 N84-15399
Recent advances in variable speed electrical generator systems for large wind turbines
[DE84-001833] 06 p0830 N84-15404
Thermohydraulic applications of liquid metals in the non-nuclear field 06 p0843 N84-15501
A mathematical model for the doubly-fed wound rotor generator, part 2
[NASA-TM-83581] 08 p1149 N84-17479
Thermomagnetic generator
[DE84-007685] 15 p2365 N84-25189
Materials, Processes and Testing Laboratory. Summarizing module performance at MIT Lincoln Laboratory experimental photovoltaic test sites, 1977 - 1982
[DOE/ET-20279/188] 16 p2512 N84-26122
Effect of radial inflow on vortex intensification and its application to wind vortex generators
17 p2724 N84-27335
Effects of voltage control in utility interactive dispersed storage and generation systems
[NASA-CR-173730] 18 p2869 N84-28211
Stirling module development overview
18 p2873 N84-28240
Parabolic dish Stirling module
18 p2873 N84-28241
Subatmospheric Brayton-cycle engine program review
18 p2874 N84-28247
Hydrogen storage in the form of metal hydrides
[NASA-TM-77453] 19 p3050 N84-29356
Wind turbine generator interaction with conventional diesel generators on Block Island, Rhode Island. Volume 1: Executive summary
[NASA-CR-168318] 19 p3050 N84-29357

The 100 area diesel performance data
[DE84-011136] 21 p3414 N84-31648
Hipot and continuity qualification est experience
22 p3583 N84-32692
Cooling of high power generators and motors for electric propulsion
[AD-A144049] 23 p3742 N84-33720
Constant speed drive with compensation using differential gears
[AD-D011156] 23 p3756 N84-33812

ELECTRIC HYBRID VEHICLES
Electric and Hybrid Vehicles Program. Report to Congress for fiscal year 1983
[DE84-007792] 14 p2249 N84-24511
Hybrid vehicle assessment. Phase 1: Petroleum savings analysis
[NASA-CR-173741] 18 p2947 N84-28682
A computerized system for establishing electric-vehicle battery requirements
[DE84-011728] 21 p3395 N84-31545

ELECTRIC IMPULSES
U ELECTRIC PULSES

ELECTRIC MOTOR VEHICLES
Improved transistor-controlled and commutated brushless DC motors for electric vehicle propulsion
[NASA-CR-168053] 01 p0069 N84-10450
Research, development and demonstration of nickel-iron batteries for electric-vehicle propulsion
[DE83-015755] 01 p0073 N84-10479
A microprocessor-based range meter for electric vehicles
[DE83-902237] 02 p0304 N84-11993
Research, development and demonstration of nickel-iron batteries for electric-vehicle propulsion
[DE83-014270] 02 p0304 N84-11994
Tubular battery and transistorized controller outdoor laboratory test program
[DE83-016231] 02 p0304 N84-11995
Energy use and range of electric vehicles in selected US Department of Energy sites
[DE83-015719] 03 p0461 N84-13034
Research, development and demonstration of lead-acid batteries for electric vehicle propulsion
[DE84-000468] 04 p0527 N84-13464
Study and review of permanent magnets for electric vehicle propulsion motors
[NASA-CR-168178] 04 p0617 N84-14071
Maximum-efficiency dc-motor project for electric vehicles
[DE84-000791] 07 p0999 N84-16479
The automatic transmission optimal control problem
[CSIR-TWISK-286] 07 p1057 N84-16844
Integral inverter/battery charger for use in electric vehicles
[NASA-CR-168177] 07 p1088 N84-17073
Kinetic energy accumulator applications to electric vehicles
[SNIAS-831-422-101] 07 p1088 N84-17074
Fuel cells for transportation applications
[DE84-003969] 09 p1310 N84-18564
Lithium/iron sulfide batteries for electric-vehicle propulsion and other applications
[DE84-004193] 09 p1310 N84-18565
Optimization methods applied to hybrid vehicle design
[NASA-CR-168292] 09 p1406 N84-19185
Lead-acid battery with improved cycle life and increased efficiency for lead leveling application and electric road vehicles
[BMFT-FB-T-83-225] 10 p1489 N84-19734
Development of a DC propulsion system for an electric vehicle
[NASA-CR-168306] 10 p1529 N84-20014
Road load simulator tests of the Gould phase 1 functional model silicon controlled rectifier ac motor controller for electric vehicles
[NASA-TM-83497] 10 p1529 N84-20016
Electric vehicle propulsion alternatives
[NASA-TM-83504] 10 p1529 N84-20017
Testing and evaluation of EV-1300 lead-acid modules for the hybrid vehicle application
[DE84-006718] 14 p2249 N84-24510
Electric and Hybrid Vehicles Program. Report to Congress for fiscal year 1983
[DE84-007792] 14 p2249 N84-24511
Results of electric-vehicle propulsion system performance on three lead-acid battery systems
[NASA-TM-83657] 15 p2361 N84-25166
System/battery design interaction for a lithium-metal sulfide van battery
[DE84-007274] 15 p2421 N84-25537
Use of the Li-Al/FeS battery in advanced vehicle propulsion systems
[DE84-007275] 15 p2421 N84-25538
Estimate of the consumer cost of aluminum fuel for electric vehicles
[DE84-008327] 15 p2421 N84-25539
Advanced battery development in the US
[DE84-010505] 20 p3179 N84-30190
Battery test results on Gould GC2-EV200
[DE84-900635] 20 p3181 N84-30208
AC propulsion system for an electric vehicle, phase 2
[NASA-CR-168244] 21 p3390 N84-31514
Test and evaluation of the Philips Model PE 1701 and Lester Model 9865 electric vehicle battery chargers
[DE84-901243] 21 p3394 N84-31541
Operation of electric vehicles in the US Department of Energy test program
[DE84-011703] 21 p3521 N84-32308
The Electric Vehicle Project
[DE84-011788] 21 p3522 N84-32309
Effects of standtime on the available capacity of lead-acid and nickel/iron electric vehicle batteries
[DE84-013452] 22 p3587 N84-32721

ELECTRIC MOTORS
NT INDUCTION MOTORS
NT STEPPING MOTORS
NT SYNCHRONOUS MOTORS
NT TORQUE MOTORS
Permanent-magnet motors and generators for aircraft
01 p0010 N84-10062
Application of advanced materials to rotating machines
01 p0010 N84-10063
Design and testing of high performance brushes
[AD-A131348] 02 p0213 N84-11394
Brushless self-excited type three-phase synchronous motor driven by GTO inverter 07 p0983 N84-16366
Maximum-efficiency dc-motor project for electric vehicles
[DE84-000791] 07 p0999 N84-16479
State-of-the-art of solid-state motor controllers. Part 4: Failure-rate and failure-mode data
[DE84-001022] 08 p1152 N84-17502
Optimal electric drive control to suppress jerking
[BLL-M-35391-(5828.4)] 08 p1165 N84-17589
Electrical-shock prevention. Volume 3: Fault protection for motion-drive equipment
[PB84-102961] 08 p1206 N84-17867
Electric Remotely Piloted Vehicle (ERPV)
[AD-A136201] 09 p1310 N84-18563
Influence of transient regimes of the motor on elastic mechanical vibrations in an electric drive
[BLL-M-35438-(5828.4)] 12 p1825 N84-21896
Field demonstration of three-phase wanlass motors
[AD-A140085] 15 p2330 N84-24989
Smart motor technology 15 p2349 N84-25096
Electric vehicle modeling and simulation
[AD-A139719] 15 p2420 N84-25535
Problems of technical electrodynamics (selected articles)
[AD-A140972] 18 p2833 N84-27985
Utilization of amorphous metals in electric motors. Power systems technology program
[DE84-009483] 19 p3018 N84-29136
Compressed air systems: A guidebook on energy and cost savings
[DE84-008802] 20 p3170 N84-30133
Calculation of hydraulic friction losses in dc motors filled with liquid dielectric 21 p3380 N84-31450
Optimum control of electric motor drives for industrial robots
[DE84-012878] 21 p3395 N84-31543
Cooling of high power generators and motors for electric propulsion
[AD-A144049] 23 p3742 N84-33720
Investigation of power factor controller applications
[AD-A144486] 24 p3898 N84-34686

ELECTRIC NETWORKS
Superregenerative amplifier in linear mode as a radar range gate-derivations
[DE84-000978] 04 p0528 N84-13474
Reliability of electrical machines and drives, part 1
[BMFT-FB-T-83-163-PT-1] 07 p0999 N84-16480
Testing of the box transformer 10/04.4 kV in the network of the electricity supply company
[BMFT-FB-T-83-165] 07 p1000 N84-16483
Preliminary investigation of an electrical network model for ultrasonic scattering
[NASA-CR-3770] 08 p1168 N84-17606
BERTHA: A versatile transmission line and circuit code
[AD-A135024] 08 p1209 N84-17886
Intrasystem Analysis Program (IAP) code summaries
[AD-A135673] 09 p1301 N84-18507
Methodical layout of mechanical systems with regard to optimum vibrational behavior
[REPT-36] 12 p1825 N84-21898
TLINES: A computer program for circuits of transmission lines
[AD-A139596] 14 p2142 N84-23844
Guide for designing industrial high tension networks
[CAHIERS-TECHNIQUES-124] 15 p2330 N84-24994
Investigate alternative interconnection strategies for arrays of wind turbine generators
[ORNL/SUB-82-69604/1] 16 p2512 N84-26120

ELECTRIC OUTLETS
A comparative evaluation of new low-cost array field designs for grid-connected photovoltaic systems
[DE84-010978] 21 p3435 N84-31797

ELECTRIC POTENTIAL
NT BIOELECTRIC POTENTIAL
NT COULOMB POTENTIAL
NT LIENARD POTENTIAL
NT LOW VOLTAGE
NT OPEN CIRCUIT VOLTAGE
NT PHOTOVOLTAGES
New developments in power semiconductors
01 p0011 N84-10065
Lightweight, high-frequency transformers
01 p0011 N84-10066
High-voltage analytical electron microscopy
[DE83-014318] 01 p0085 N84-10554
An evaluation of the effect of cell voltage and termination current on barrier anodic Al2O3 film formation
[DE83-013961] 02 p0195 N84-11286
Hybrid power semiconductor switch
[NASA-CASE-LEW-13922-1] 02 p0212 N84-11389
Radiation testing of the CMOS 8085 microprocessor family
[DE83-014604] 02 p0271 N84-11771
Service experience of EDF 20 kV XLPe insulated cable
[BLL-OA-TRANS-2633-(6196.3)]
04 p0524 N84-13448
High sensitivity comparison of potential differences between two Josephson junctions
05 p0752 N84-14930
Compact Claude cycle refrigerator for laboratory use
06 p0819 N84-15338
Evaluation of type 2 fast packs for electrostatic discharge properties
[AD-A133158] 06 p0853 N84-15557
Beam processing for high-efficiency Si solar cells
[DE84-002059] 06 p0874 N84-15690
Current collection from the space plasma through defects in high voltage solar array insulation
06 p0919 N84-15970
Electromagnetic propulsion test facility
[NASA-TM-83568] 07 p0961 N84-16229
Influence of unbalanced three-phase current on characteristics of high-speed LIM
07 p0983 N84-16365
Semiconductor drift chamber: An application of a novel charge transport scheme
[DE84-002875] 07 p1082 N84-17038
Anomalously high potentials observed on ISEE
[NASA-CR-172791] 08 p1115 N84-17252
Optimization of the parameters of the arc suppressing system of high-voltage apparatuses with a thyristor attachment
[BLL-OA-TRANS-3139-(6196.3)]
08 p1149 N84-17476
Human reactions to transient electric currents, volume 8
[PB84-112895] 08 p1202 N84-17834
Analysis of electrical accident prevention countermeasures
[PB84-102987] 08 p1207 N84-17869
Double-injection, deep-impurity switch development
[NASA-CR-168335] 09 p1306 N84-18536
A nonlinear eigenvalue problem modelling the avalanche effect in semiconductor diodes
[AD-A136368] 09 p1394 N84-19106
Hazard analysis for magnetic induction from electric transmission lines
[PB84-125236] 10 p1473 N84-19619
Further development of a computer algorithm for the automatic determination of space vehicle potential in real time
[AD-A137041] 10 p1571 N84-20292
Computation of current-voltage-characteristics in a semiconductor device using arc-length continuation
[AD-A137919] 11 p1647 N84-20770
Mapping the acid stimulation in the Beowawe geothermal field using surface electrical potentials
[DE84-004995] 11 p1672 N84-20908
Voltage controlling mechanisms in low resistivity silicon solar cells: A unified approach
[NASA-TM-83612] 11 p1673 N84-20916
Increased voltage photovoltaic cell
[NASA-CASE-NPO-16155-1] 11 p1673 N84-20917
Deep traps in AlGaAs layers at AlGaAs-GaAs interfaces
[DE84-005234] 11 p1745 N84-21387
Three-dimensional potential structure associated with Birkeland currents
[TRITA-EPP-83-09] 12 p1912 N84-22455

On the limiting electrode potential in cavities and its role in deciding between SCC (Stress Corrosion Cracking) and HC (Hydrogen Cracking) in metals
[AD-A136585] 13 p1955 N84-22713
Teardown analysis of a ten cell bipolar nickel-hydrogen battery
[NASA-TM-83618] 13 p2008 N84-23026
The effect of diffusion induced lattice stress on the open-circuit voltage in silicon solar cells
[NASA-TM-83667] 13 p2008 N84-23027
Discharges on a negatively biased solar array in a charged particle environment
[NASA-TM-83644] 14 p2118 N84-23690
TLINES: A computer program for circuits of transmission lines
[AD-A139596] 14 p2142 N84-23844
Numerical modeling of ionospheric parameters from global IMS (International Magnetospheric Study) magnetometer data for the CDAW-6 intervals
[PB84-151307] 14 p2177 N84-24041
A probe for measuring spacecraft surface potentials using a direct-gate field effect transistor
[AD-A140024] 15 p2283 N84-24706
Shuttle Orbiter charging in polar Earth orbit
[AD-P002116] 16 p2524 N84-26202
Potential barriers and multiple roots in spacecraft charging
[AD-P002117] 16 p2524 N84-26203
Mechanisms that limit potentials on ionospheric satellites
[AD-P002118] 16 p2524 N84-26204
Polar code development
[AD-P002122] 16 p2524 N84-26208
Questions that need to be answered
[AD-P002127] 16 p2525 N84-26213
The 1/f noise in conditions of high geometrical magnetoresistances 17 p2636 N84-26862
Performance criteria guideline for three explosion protection methods of electrical equipment rated up to 15,000 volts AC
[NASA-TM-85528] 17 p2640 N84-26887
Subharmonic vibrations of rotor mounted in rolling bearings 17 p2649 N84-26943
Laboratory discharge studies of a 6 V alkaline lantern-type battery Eveready Energizer no. 528, under various ambient temperatures (-15 deg C and + 22 deg C) and loads (30 omega and 60 omega)
18 p2800 N84-27772
Capillary zone electrophoresis: Instrumentation and use with nonaqueous solvents
[DE84-010617] 18 p2812 N84-27854
Phase detector for three-phase power factor controller
[NASA-CASE-MFS-25854-1] 18 p2832 N84-27975
Diagnostics development for E-beam excited air channels: Optical studies of the PHERMEX electron beam
[AD-A142095] 19 p3101 N84-29701
Fiber optic current probe
[DE84-007964] 19 p3105 N84-29729
Potential-determining reactions during pitting corrosion of aluminum
[DE84-007695] 20 p3155 N84-30031
Intergranular failures of Alloy 600 in high temperature caustic environments
[DE84-010890] 20 p3155 N84-30032
Klystron voltage pulse timing experiment
[DE84-011753] 20 p3177 N84-30176
The design and testing of an electrolyte destratification system applied to a 96 V Alco 2200 battery
[PB84-184894] 20 p3237 N84-30550
Thermoacoustic couple
[DE84-011296] 20 p3291 N84-30895
Normal zone detectors for a large number of inductively coupled coils, revision 1
[DE84-011053] 21 p3392 N84-31526
Characterization of physiochemical properties of polymeric and electrochemical materials for aerospace flight
[NASA-CR-175258] 22 p3558 N84-32534
Hipot and continuity qualification est experience
22 p3583 N84-32692
Characterization of voltage losses during high-intensity current pulses in reactive, porous electrodes of molten salt cells
[DE84-012112] 22 p3589 N84-32730
A new solar cell design for improved open circuit voltage and high efficiency
[NASA-CASE-NPO-16126-1] 22 p3616 N84-32911
Particle environment — solar arrays and electric discharges
[NASA-CR-173888] 22 p3661 N84-33210
Simplified dc to dc converter
[NASA-CASE-LEW-13495-1] 23 p3734 N84-33663
Ultraviolet laser triggering of the 6 MV PBFA-2 gas switch
[DE84-014004] 23 p3755 N84-33802
Development of metallization process: FSA project, cell and module formation research area
[NASA-CR-173996] 24 p3884 N84-34609

ELECTRIC POWER

Implementing microprocessor technology in aircraft electrical power generating system control
03 p0336 N84-12185
The 400 Hz generators evolution, effects on installation arrangements 03 p0336 N84-12186
Method for the production of electrographite involving about 50% reduction of electrical energy
[BMFT-FB-T-83-162] 07 p0968 N84-16275
Thiazine dyes for use in photogalvanic cells
[DE84-009097] 15 p2330 N84-24990
Electric vehicle modeling and simulation
[AD-A139719] 15 p2420 N84-25535
Requirements for high-temperature air-cooled central receivers
[DE84-000081] 20 p3235 N84-30534

ELECTRIC POWER CONVERSION

U ELECTRIC GENERATORS

ELECTRIC POWER PLANTS

NT FUEL CELL POWER PLANTS
NT NUCLEAR POWER PLANTS
NT SOLAR THERMAL ELECTRIC POWER PLANTS
Assessment of the environmental aspects of the DOE phosphoric acid fuel cell program
[NASA-CR-168131] 01 p0102 N84-10663
Develop and test fuel cell powered on-site integrated total energy system
[NASA-CR-168159] 02 p0241 N84-11581
The design of modern Low Pressure (LP) steam turbines 06 p0840 N84-15473
Reliability of electrical machines and drives, part 1
[BMFT-FB-T-83-163-PT-1] 07 p0999 N84-16480
Reliability of electrical machines and drives, part 2
[BMFT-FB-T-83-164-PT-2] 07 p0999 N84-16481
Modular stellarator reactor: A Fusion power plant
[DE84-002268] 07 p1077 N84-17001
Biochemical indicators of thermal stress: Selected genetic and physiological parameters
[PB84-100122] 08 p1198 N84-17808
Industrial and marine engine derivatives: A spin-off from aviation — gas turbine engines
[PNR-90197] 13 p1934 N84-22581
Wind and solar powered turbine
[NASA-CASE-NPO-15496-1] 13 p2007 N84-23018
Small wind systems field evaluation. Volume 3: Utility issues
[DE84-006919] 15 p2365 N84-25190
Mathematical model of power station blocks with forced circulation steam generation
[DRIC-T-7008] 15 p2389 N84-25332
On-line monitoring of the true corrosion rate in power plants
[CISE-2156] 16 p2465 N84-25796
Investigate alternative interconnection strategies for arrays of wind turbine generators
[ORNL/SUB-82-69604/1] 16 p2512 N84-26120
Wind energy systems for electric utilities: A synthesis of value studies
[DE83-011968] 16 p2512 N84-26121
White Cliffs: Operating experience
18 p2874 N84-28250
Recent advances in design of low cost film concentrator and low pressure free piston Stirling engines for solar power 18 p2875 N84-28253
Economics of a conceptual 75 MW hot dry rock geothermal electric power station
[DE83-015926] 20 p3236 N84-30539
A high voltage electrical power system for low Earth orbit applications
[NASA-TM-86453] 21 p3390 N84-31511
Alternative power supply and dump resistor connections for similar, mutually coupled, superconducting coils
[DE84-012602] 21 p3393 N84-31534
The 100 area diesel performance data
[DE84-011136] 21 p3414 N84-31648
Using gas-turbine power stations with aircraft engines for power-and-heat generation
[AD-A142084] 21 p3434 N84-31786
DC wiring system grounding and ground fault protection issues for central station photovoltaic power plants
22 p3584 N84-32695
Electrical safety for high voltage arrays
22 p3584 N84-32697
Wind energy: Large windpower systems to produce electric energy 23 p3785 N84-34008
GROWIAN: Electric current from wind energy
23 p3786 N84-34009
Cogeneration Technology Alternatives Study (CTAS). Volume 2: Comparison and evaluation of results
[NASA-TM-81401] 23 p3790 N84-34038
Efficiency and operating experience of Block Heating Power Stations (BHPS) 23 p3792 N84-34049
The EBT-S 28-GHz, 200-kW, CW, mixed-mode, quasi-optical plasma heating system
[DE84-014415] 23 p3829 N84-34287
Optimization of the thermodynamic cycles of a collective heating power station 23 p3832 N84-34305

ELECTRIC POWER SUPPLIES

NT AIRCRAFT POWER SUPPLIES
NT SPACECRAFT POWER SUPPLIES
Aircraft Electric Secondary Power
[NASA-CP-2282] 01 p0009 N84-10055
The 400-Hz aircraft power-generation systems: Advancing the baseline 01 p0010 N84-10056
High-voltage (270 V) dc power-generating system for fighter aircraft 01 p0010 N84-10057
Three-phase, high-voltage, high-frequency distributed bus system for advanced aircraft
01 p0010 N84-10058
Secondary electric power generation with minimum engine bleed 01 p0010 N84-10059
Primary electric power generation systems for advanced-technology engines 01 p0010 N84-10060
Application of advanced materials to rotating machines 01 p0010 N84-10063
New developments in power semiconductors
01 p0011 N84-10065
DC-link approach to constant-frequency aircraft power
01 p0011 N84-10068
All-purpose bidirectional four-quadrant controller
01 p0011 N84-10070
Areas of the rational use of different spacecraft power systems
[AD-A129340] 02 p0186 N84-11207
Software development and maintenance guidelines, volume 1
[DE83-902192] 02 p0274 N84-11793
Auxiliary Power Systems
[AGARD-CP-352] 03 p0333 N84-12168
Auxiliary power systems with gas turbines
03 p0334 N84-12170
Hydraulic generation of auxilliary power for the Mirage 2000 aircraft 03 p0335 N84-12176
Advanced high-power generator for airborne applications
[AD-A133290] 06 p0830 N84-15398
Meteorological/atmospheric effects on the performance of solar photovoltaic energy conversion devices
[DE84-000018] 11 p1674 N84-20927
High voltage-high power components for large space power distribution systems
[NASA-TM-83648] 13 p1940 N84-22615
Wind power generation design considerations
[AD-A138841] 13 p2009 N84-23029
Advanced nuclear systems for portable power in space
[PB84-148568] 15 p2365 N84-25191
Feasibility of using Photovoltaic Power Systems (PPS) with High Pressure Sodium (HPS) lamps for magazine entry lighting
[AD-A140146] 16 p2519 N84-26169
Transformers with voltage regulation for electric supply networks 17 p2639 N84-26881
FY 1985 technical objective document
[AD-A140581] 17 p2770 N84-27586
Dual electrochemical system
[AD-D011035] 19 p3051 N84-29361
Transient circuit overvoltages in Swedish manufacturing industry — on AC power supply systems
[FOA-E-30002-E26] 23 p3744 N84-33735
Constant speed drive with compensation using differential gears
[AD-D011156] 23 p3756 N84-33812
A guide to the Electrical Analysis Software System (EASS)
[AD-A144680] 24 p3947 N84-34998
Preliminary design of a reuseable PPMHD (Pulsed Plasma MHD) power supply test bed facility
[AD-A144147] 24 p3965 N84-35108

ELECTRIC POWER TRANSMISSION

New developments in power semiconductors
01 p0011 N84-10065
China builds first 6000kV type pulse voltage generator
[AD-A132564] 04 p0525 N84-13449
Power line radiation in the magnetosphere
07 p0986 N84-16387
Preliminary investigation of an electrical network model for ultrasonic scattering
[NASA-CR-3770] 08 p1168 N84-17606
Intrasystem Analysis Program (IAP) code summaries
[AD-A135673] 09 p1301 N84-18507
Advanced aircraft electrical system control technology demonstrator. Phase 1: Requirements analysis & preliminary design. Phase 2: Detailed design
[AD-A136758] 10 p1428 N84-19337
Hazard analysis for magnetic induction from electric transmission lines
[PB84-125236] 10 p1473 N84-19619

Experimental measurements of traffic and radio disturbances in Ente Nazionale per l'Energia Elettrica's (ENEL) mobile radio networks — Italy
10 p1478 N84-19657
The Shock and Vibration Digest, volume 15, no. 6
[AD-A131730] 10 p1505 N84-19841
Static and dynamic behavior of mechanical components associated with electrical transmission lines
10 p1505 N84-19844
A field splicing system for single-mode optical fiber
11 p1726 N84-21257
Factors that affect the fatigue strength of power transmission shafting
[NASA-TM-83608] 16 p2498 N84-26029
Investigate alternative interconnection strategies for arrays of wind turbine generators
[ORNL/SUB-82-69604/1] 16 p2512 N84-26120
Nuclear electromagnetic pulse (EMP) and electric power systems
[DE84-010665] 20 p3175 N84-30166

ELECTRIC PROPULSION
NT ELECTROMAGNETIC PROPULSION
NT ION PROPULSION
NT LASER PROPULSION
NT PLASMA PROPULSION
NT SOLAR ELECTRIC PROPULSION
All-electric accessory drive systems: Implications on engine design and performance
03 p0336 N84-12184
Investigation of a pulsed electrothermal thruster
[NASA-CR-168266] 03 p0343 N84-12227
Research, development and demonstration of lead-acid batteries for electric vehicle propulsion
[DE84-000468] 04 p0527 N84-13464
Development, design and testing of the engineering model of the electric propulsion system Radiofrequency Ion Thrust Assembly (RITA)
[BMFT-FB-W-83-017] 07 p0965 N84-16254
Thermal-energy transport from arc to rails in an arc-driven rail gun
[AD-A134991] 08 p1152 N84-17499
Experimental investigation of a Hall-current thruster
[NASA-CR-168133] 09 p1274 N84-18321
Sputtering phenomena in ion thrusters
[NASA-CR-168172] 09 p1274 N84-18322
Electric Remotely Piloted Vehicle (ERPV)
[AD-A136201] 09 p1310 N84-18563
Industrialization of emitters modules, part 2
[SEP-TS/SE/BT/10457/83-PT-2]
16 p2475 N84-25866
Performance capabilities of the 12-centimeter Xenon ion thruster
[NASA-TM-83674] 18 p2808 N84-27825
Thrust balance efficiency measurements for a pulsed inductive thruster 20 p3139 N84-29930
Radiative resistojet performance characterization tests
[NASA-CR-174763] 23 p3701 N84-33462
Cooling of high power generators and motors for electric propulsion
[AD-A144049] 23 p3742 N84-33720
Experimental research on electric propulsion. Note 5: Experimental study of a magnetic field stabilized arc-jet
[NASA-TM-77474] 23 p3826 N84-34266

ELECTRIC PULSES
Pulsed electrodeposition of amorphous and composite alloys
[AD-A132848] 05 p0646 N84-14246
Synthesis of frequency spectra based on use of multilevel pulse sequences 17 p2634 N84-26848
Multiphoton ionization spectroscopy and photochemistry of transient species
[DE84-010424] 20 p3295 N84-30922
Signal set standardization for the aircraft-store electrical interconnection system
[AD-P003528] 21 p3330 N84-31132
Pulsed current hard chromium plating
[CETIM-12-F-390] 21 p3369 N84-31372
Pulsed power for racetrack induction accelerators
[AD-A143289] 22 p3653 N84-33157
Distortions in frequency spectra of signals associated with sampling-pulse shapes
[DE84-701747] 24 p3896 N84-34672

ELECTRIC RELAYS
Electrostatic discharge (ESD) simulator experiment (testing of some switches/relays for application to an ESD simulation circuit)
[AD-A134580] 07 p0998 N84-16468
Electrical-shock prevention. Volume 1: Protection of maintenance personnel
[PB84-102946] 08 p1206 N84-17865

ELECTRIC ROCKET ENGINES
NT ARC JET ENGINES
NT ELECTROSTATIC ENGINES
NT ELECTROTHERMAL ENGINES
NT ION ENGINES
NT MERCURY ION ENGINES
NT PLASMA ENGINES
NT RESISTOJET ENGINES
NT RIT ENGINES

ELECTRIC STIMULI
An instrumental conditioning method for establishing chronic arousal
[AD-A140808] 17 p2740 N84-27396

ELECTRIC SWITCHES
NT THERMOSTATS
Workshop on Solid State Switches for Pulsed Power
[AD-A132687] 05 p0754 N84-14945
Electrostatic discharge (ESD) simulator experiment (testing of some switches/relays for application to an ESD simulation circuit)
[AD-A134580] 07 p0998 N84-16468
Repetitive switching for an electromagnetic rail gun
[AD-A138360] 12 p1812 N84-21814
Polymer thick-film conductors and dielectrics for membrane switches and flexible circuitry
12 p1840 N84-21994
Large aperture optical switching devices
[DE84-005126] 12 p1908 N84-22433
Rotating arc cutoff with a Fluarc switch or a Rollarc contactor in SF6
[CAHIERS-TECHNIQUES-123]
15 p2330 N84-24993
Plasma switch development
[AD-A143233] 22 p3586 N84-32711

ELECTRIC TERMINALS
Ergonomic analysis of human operation of video terminal 21 p3454 N84-31918
Results of psychophysiological study of Videoton terminal operators 21 p3454 N84-31919

ELECTRIC WELDING
NT ARC WELDING
NT ELECTRON BEAM WELDING
NT ELECTROSLAG WELDING
NT GAS TUNGSTEN ARC WELDING
Welding of thermoplastics 09 p1292 N84-18437
Development of low cost filler materials for welding high strength steels
[AD-A141724] 19 p2994 N84-28973
Optical and electronic methods for weld arc viewing
[DE84-009731] 19 p3032 N84-29233

ELECTRIC WIRE
NT BEAM LEADS
Electromagnetic coupling to an infinite wire through a small aperture of arbitrary shape
[AD-A130425] 01 p0062 N84-10407
Temperature dependence of hydrolysis of polyimide wire insulation
[AD-A131334] 02 p0200 N84-11301
Enthalpy - improved dielectric insulation for superconducting wires
[AD-A131857] 03 p0356 N84-12316
Orbiting wire as a dynamo: Auxiliary power possibilities for space platforms
[IFSI-83-3] 03 p0405 N84-12653
Ultra low loss optical fiber cable assemblies, volume 2
[AD-A132008] 03 p0440 N84-12891
Ultra low loss optical fiber cable assemblies, volume 1
[AD-A132007] 03 p0440 N84-12892
Intrasystem Analysis Program (IAP) code summaries
[AD-A135673] 09 p1301 N84-18507
Hazard analysis for magnetic induction from electric transmission lines
[PB84-125236] 10 p1473 N84-19619
Cabling and connectors technology working group report IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A137330] 10 p1504 N84-19828
Pretreatment of Kapton-coated cable for epoxy adhesion
[DE84-006265] 11 p1661 N84-20837
Aluminum foil shield effectiveness for electronic cables 11 p1719 N84-21215
New data on long term stabilization of polyethylene for telecommunication wire insulation
11 p1721 N84-21227
Non-metallic optical cable with optical fiber catenary for long span aerial application 11 p1722 N84-21235
Non-metallic long span aerial cable with optical fibres for the use at 1.3 micrometers 11 p1722 N84-21236
New silicon rubber cable insulation promises circuit integrity, in flaming environment
11 p1723 N84-21237
A polytetrafluorethylene insulated cable for high temperature oxygen aerospace applications
11 p1723 N84-21238
Development of flame retardant, low aggressivity cables 11 p1723 N84-21239
Low-smoke, halogenfree ship-offshore/onshore cables with improved flame retardance and fire resistance
11 p1723 N84-21240
The crimping of high-reliability electrical connections
[ESA-PSS-01-726-ISSUE-1] 16 p2485 N84-25937
Annual meeting of the Pyrotechnics and Explosives Applications Section on the American Defense Preparedness Association
[AD-A143157] 21 p3373 N84-31406
Process for making a fluid-cooled electrical conductor
[AD-D011150] 23 p3735 N84-33666

ELECTRIC WIRING
U ELECTRIC WIRE
U WIRING

ELECTRICAL BREAKDOWN
U ELECTRICAL FAULTS

ELECTRICAL CONDUCTIVITY
U ELECTRICAL RESISTIVITY

ELECTRICAL ENERGY
U ELECTRIC POWER

ELECTRICAL ENGINEERING
Cycloconverter on the all-electric airplane
01 p0011 N84-10069
Center for electronics and electrical engineering technical progress bulletin covering signals and systems program, April 1982 - September 1982
[PB83-241158] 03 p0369 N84-12405
USAF/SCEEE summary faculty research program (1982) research reports, volume 2
[AD-A130770] 03 p0457 N84-13009
A summary of the Naval Postgraduate School Research Program
[AD-A132871] 05 p0766 N84-15024
Basic and applied research in the field of electronics and communications
[AD-A135283] 08 p1150 N84-17487
Problems of building turbogenerators with windings made of superconductors and pure metals
[AD-A137198] 10 p1485 N84-19710
Center for Electronics and Electrical Engineering Technical Progress Bulletin covering center programs, October - December 1982
[PB84-137322] 11 p1705 N84-21115
Evaluative report on the National Engineering Laboratory, National Bureau of Standards, fiscal year 1983
[PB84-129873] 11 p1747 N84-21398
Summary of research, academic departments, 1982-1983
[AD-A140059] 15 p2416 N84-25507
Techniques in high-temperature resistance thermometry. 1: Construction of the NBS-design high temperature platinum resistance thermometer. 2: Toroidal resistor for high-temperature platinum resistance thermometers
[PB84-164110] 17 p2672 N84-27029
USSR Report: Electronics and electrical engineering
[JPRS-UEE-84-002] 18 p2822 N84-27915
Requirements for a transformerless power conditioning system
[NASA-CR-173742] 18 p2833 N84-27981
Aeronautical Engineering: A continuing bibliography with indexes (supplement 175)
[NASA-SP-7037(175)] 19 p2955 N84-28726
Summer faculty fellowship program, 1984
[NASA-CR-172409] 21 p3507 N84-32221
USSR report: Electronics and electrical engineering
[JPRS-UEE-84-006] 22 p3565 N84-32580
Use of methods of transmission line electrical theories to analyze one-dimensional dynamic problems of consolidation theory
[ISSN-0208-5658] 23 p3734 N84-33662
The Record of Electrical and Communication Engineering Conversazione, volume 52, no. 3, February 1984
[ISSN-0385-7719] 23 p3740 N84-33707

ELECTRICAL FAULTS
NT SHORT CIRCUITS
Power subsystem automation study
[NASA-CR-170974] 08 p1180 N84-17686
Electrical-shock prevention. Volume 2: Ground-fault interrupting devices
[PB84-102953] 08 p1206 N84-17866
Electrical-shock prevention. Volume 3: Fault protection for motion-drive equipment
[PB84-102961] 08 p1206 N84-17867
The effect of pulse current on the electrical strength of high-voltage modulator tubes
[AD-A136489] 09 p1307 N84-18544
Research in VLSI systems
[AD-A137398] 10 p1486 N84-19715
Field experience with voltage breakdown in photovoltaic (PV) arrays
[DE84-005551] 12 p1844 N84-22020
Power transfer for microwave discharges
[AD-A138868] 13 p2044 N84-23267
A voltmeter for remotely sensing high voltages
[AD-D011046] 19 p3027 N84-29199

Investigations to improve the stability of thermal oxides on polycrystalline and single crystalline silicon
[BMFT-FB-T-84-052] 19 p3113 N84-29780
Alternative power supply and dump resistor connections for similar, mutually coupled, superconducting coils
[DE84-012602] 21 p3393 N84-31534
Dielectric breakdown distributions of large dielectric constant liquids
[DE84-013216] 22 p3548 N84-32461
Proceedings of the Flat-Plate Solar Array Project Research Forum on the Design of Flat-Plate Photovoltaic Arrays for Central Stations
[NASA-CR-173918] 22 p3582 N84-32683
Hot-spot investigations of utility scale panel configurations 22 p3582 N84-32687
Electrical insulation requirements and reliability goals 22 p3583 N84-32691
Laboratory experience with voltage breakdown 22 p3583 N84-32693
Breakdown of organic insulators 22 p3583 N84-32694
Photovoltaic system grounding and fault protection 22 p3584 N84-32696
Grounding and fault protection of the SMUD PVI array 22 p3584 N84-32698
Photovoltaic central station step and touch potential considerations in grounding system design 22 p3584 N84-32699
Breakdown processes in large-area cold-cathode vacuum triodes
[DE84-014026] 22 p3602 N84-32817

ELECTRICAL GROUNDING
Plasma source for spacecraft potential control
[NASA-CR-174552] 01 p0028 N84-10177
Supplemental grounding of extending EMP collectors
[AD-A131255] 01 p0067 N84-10440
Physical and computer modeling of military earth grounding practices in a HEMP (High-Altitude Electromagnetic Pulse) environment
[AD-A130141] 01 p0070 N84-10454
DC wiring system grounding and ground fault protection issues for central station photovoltaic power plants 22 p3584 N84-32695
Photovoltaic system grounding and fault protection 22 p3584 N84-32696
Grounding and fault protection of the SMUD PVI array 22 p3584 N84-32698
Photovoltaic central station step and touch potential considerations in grounding system design 22 p3584 N84-32699

ELECTRICAL IMPEDANCE
NT CONTACT RESISTANCE
NT ELECTRICAL RESISTANCE
NT REACTANCE
Impedance and ellipsometer measurements of lithium electrodes in propylene carbonate solutions
[DE84-003922] 07 p0998 N84-16475
Physical modeling of EM propagation over nonhomogeneous terrain
[DE84-000178] 11 p1644 N84-20752
Use of changes in electrical impedance in cardiology 11 p1701 N84-21094
Measurement of the characteristic impedance of balanced twisted pairs using scattering parameters 11 p1725 N84-21250
Porous electrodes 1: Numerical simulation using random network and single pore models
[AD-A136382] 12 p1793 N84-21695
Microstrip analysis techniques
[AD-A137972] 12 p1811 N84-21804
The measurement of mechanical point admittances by means of hammer excitation and tape recording. Part 1: A feasibility study
[TPD-308.780/1-VOL-1] 12 p1900 N84-22375
Reduced electric reactance for electric arc furnace
[BMFT-FB-T-83-303] 15 p2328 N84-24976
A reassessment of the measurement uncertainty of the XT-90 twin T dual admittance bridge
[AD-A139253] 16 p2483 N84-25923
A new method for determining acoustic-liner admittance in a rectangular duct with grazing flow from experimental data
[NASA-TP-2310] 17 p2762 N84-27543
Surface acoustic admittance and absorption of highly porous, layered, fibrous materials 17 p2762 N84-27545
An AC impedance study of steel in concrete
[AERE-R-11132] 18 p2835 N84-27997
Energy storage capacitors. Lecture 4: Appendix
[DE84-010040] 21 p3395 N84-31546

ELECTRICAL INSULATION
Development of a generator stator insulation system
[AD-A130376] 01 p0070 N84-10455
Temperature dependence of hydrolysis of polyimide wire insulation
[AD-A131334] 02 p0200 N84-11301
Electrochemical-treeing (ECT) structures in high-voltage cable insulation
[BMFT-FB-T-83-087] 02 p0215 N84-11413
Combustibility of electrical wire and cable for rail rapid transit systems. Volume 1: Flammability
[PB83-233742] 02 p0217 N84-11420
Combustibility of electrical wire and cable for rail rapid transit systems. Volume 2: Toxicity
[DOT-TSC-UMTA-83-4.2-VOL-2] 02 p0217 N84-11421
Enthalpy - improved dielectric insulation for superconducting wires
[AD-A131857] 03 p0356 N84-12316
High-average-power rep rate systems
[DE83-013769] 03 p0366 N84-12385
The effect of water on the dielectric performance of a cable
[BLL-OA-TRANS-2634-(6196.3)] 04 p0524 N84-13447
Service experience of EDF 20 kV XLPe insulated cable
[BLL-OA-TRANS-2633-(6196.3)] 04 p0524 N84-13448
Void-free epoxy castings for cryogenic insulators and seals
[DE83-017273] 04 p0529 N84-13479
Radial thermomechanical behaviour
[BLL-OA-TRANS-2639-(6196.3)] 04 p0533 N84-13503
Analysis of mechanisms for anode plasma formation in ion diodes
[DE83-017793] 04 p0608 N84-14010
Pulsed-laser atom probe: Recent applications
[DE82-020093] 07 p1010 N84-16551
An experimental investigation of electric flashover across solid insulators in vacuum
[NASA-CR-175379] 08 p1149 N84-17478
Static and dynamic behavior of mechanical components associated with electrical transmission lines 10 p1505 N84-19844
The insulation of copper wire by the electrostatic coating process
[AD-A137715] 11 p1646 N84-20765
New silicon rubber cable insulation promises circuit integrity, in flaming environment 11 p1723 N84-21237
Superconducting power transmission system development. Cable insulation development
[DE84-007805] 14 p2142 N84-23847
Laboratory and space measurements of materials
[AD-P002113] 16 p2523 N84-26199
NC-controlled machine with a cable
[MBB-UT-21-83-O] 16 p2564 N84-26450
Magnetohydrodynamic flow past nonconducting wedge 17 p2647 N84-26931
Evaluation of mica substitutes for use in thermal batteries
[AD-A140650] 17 p2723 N84-27330
Ceramics for fusion devices
[DE84-011409] 20 p3162 N84-30082
Negative ion formation in SF6 spark by-products
[DE84-012340] 20 p3181 N84-30212
USSR report: Electronics and electrical engineering
[JPRS-UEE-84-008] 21 p3376 N84-31427
Effect of processing conditions on the reliability of crosslinked polyethlene cable insulation
[DE84-014902] 22 p3560 N84-32546
Forecasting of high voltage insulation performance: Testing of recommended potting materials and of capacitors
[NASA-TM-85536] 22 p3581 N84-32681
Electrical insulation design requirements and reliability goals 22 p3583 N84-32691
Laboratory experience with voltage breakdown 22 p3583 N84-32693
Breakdown of organic insulators 22 p3583 N84-32694
DC (Direct-Current) partial-discharge-environmental screening of space TWTs (Traveling Wave Tubes)
[AD-A143230] 22 p3586 N84-32710
Current assesement of the potential of dielectric gas mixtures for industrial applications
[DE84-011658] 22 p3588 N84-32724
Study of metal-insulator transition 24 p3955 N84-35044

ELECTRICAL LEADS
U ELECTRIC CONDUCTORS

ELECTRICAL MEASUREMENT
NT POLAROGRAPHY
Solubility of the NiO fuel-cell cathode in Li2CO3 melts as determined by cyclic voltammetry
[DE83-014311] 04 p0530 N84-13485
Overview of ion-diode research
[DE83-017791] 04 p0608 N84-14012
The effects of space charge on ionic mobility measurements in cylindrical geometries 06 p0922 N84-15993
Cyclic voltammetry of polysulfide (Thiokol) prepolymers and related compounds
[MRL-R-911] 08 p1136 N84-17387
AC voltage calibrations for the 0.1 Hz to 10 Hz frequency range
[PB84-109867] 08 p1163 N84-17570
Reliability studies of ceramic capacitors
[AD-A136378] 09 p1287 N84-18403
Electrostatic charging test for aviation fuel filters
[AD-A136986] 10 p1433 N84-19366
Simulation of edge effects in electroanalytical experiments by orthogonal collocation. Part 4: Application to voltammetric experiments
[AD-A136988] 10 p1455 N84-19500
Detection and performance of defects in aluminum coated steels
[DE84-004175] 10 p1461 N84-19545
Further development of a computer algorithm for the automatic determination of space vehicle potential in real time
[AD-A137041] 10 p1571 N84-20292
Use of changes in electrical impedance in cardiology 11 p1701 N84-21094
Apparatus for certification of angular-displacement transducers 13 p1973 N84-22806
Fast Electrical and Optical Diagnostic Principles and Techniques: A NATO Advanced Study Institute
[AD-A138598] 13 p1993 N84-22936
Increased electrochemical window in ambient temperature neutral ionic liquids
[AD-A139194] 14 p2122 N84-23717
A probe for measuring spacecraft surface potentials using a direct-gate field effect transistor
[AD-A140024] 15 p2283 N84-24706
On-line monitoring of the true corrosion rate in power plants
[CISE-2156] 16 p2465 N84-25796
A reassessment of the measurement uncertainty of the XT-90 twin T dual admittance bridge
[AD-A139253] 16 p2483 N84-25923
High-resistance measuring standards of electrical resistance 18 p2826 N84-27939
Novelties in design of instruments for measuring high ac voltages 18 p2826 N84-27940
Digital phase meter 18 p2826 N84-27941
Amplitude-frequency method of measuring phase of reflection coefficient 18 p2826 N84-27942
Effect of laminated structure in materials based on complexes with charge transfer 18 p2826 N84-27943
Schottky barrier photoelectrodes with a variable barrier height
[AD-A141813] 19 p3111 N84-29765
Analysis of moisture in solids: A review of the last decade or from Pande to the present
[DE84-011166] 21 p3362 N84-31326
Interrelation between parameters of M-type traveling wave tube 22 p3568 N84-32598
Source circuit design considerations 22 p3583 N84-32690
Qualification tests and electrical measurements: Practice and problems 22 p3585 N84-32703
Qualification testing and electrical measurement experience: A manufacturer's view 22 p3585 N84-32705
Second plateau voltage in nickel-cadmium cells 23 p3737 N84-33684
Prediction of battery life and behavior from analysis of voltage data 23 p3737 N84-33685

ELECTRICAL PROPERTIES
NT CAPACITANCE
NT CARRIER MOBILITY
NT CHARGE DISTRIBUTION
NT CONTACT RESISTANCE
NT DIELECTRIC PROPERTIES
NT ELECTRICAL IMPEDANCE
NT ELECTRICAL RESISTANCE
NT ELECTRICAL RESISTIVITY
NT ELECTRON MOBILITY
NT ELECTROSTRICTION
NT FERROELECTRICITY
NT INDUCTANCE
NT IONOSPHERIC CONDUCTIVITY
NT MAGNETORESISTIVITY
NT PERMITTIVITY
NT PHOTOCONDUCTIVITY
NT PHOTOVOLTAIC EFFECT
NT PIEZOELECTRICITY
NT PLASMA CONDUCTIVITY
NT POLARIZATION CHARACTERISTICS
NT PROXIMITY EFFECT (ELECTRICITY)

NT PYROELECTRICITY
NT REACTANCE
NT SUPERCONDUCTIVITY
Polyimides for use in integrated circuits
[DE83-016769] 02 p0201 N84-11310
Semiconductor surface characterization using transverse acoustoelectric voltage versus voltage measurements
[AD-A131347] 02 p0298 N84-11955
Silicide formation and Schottky barrier of rare-earth metals on Si
[AD-A131750] 03 p0452 N84-12975
Silicide formation and Schottky barrier of rare-earth metals on Si
[AD-A131749] 03 p0452 N84-12976
Ion-implanted strained-layer superlattice device
[DE84-000101] 05 p0754 N84-14949
The unique surface properties of gold
06 p0815 N84-15310
Fabrication and properties of multilayer structures
[NASA-CR-174506] 06 p0922 N84-15997
Comparison of thermal, line-source electron beam and CW laser annealing for the fabrication of ErSi/sub 2 Schottky barrier on Si
[DE84-003105] 07 p1081 N84-17031
Artificially layered superconductors
[DE84-002768] 07 p1082 N84-17037
The effect of pressure on complex heat exchange in a channel with an electric arc
[BLL-OA-TRANS-3090-(6196.3)]
09 p1311 N84-18569
Ohmic contacts, irradiation effects, and thin film growth of GaAs and Al sub 1-x Ga sub x As
[NASA-CR-173257] 09 p1393 N84-19096
Effect of ion sputtering on the interface chemistry and electrical properties of Au/n-GaAs (100) Schottky contacts 09 p1393 N84-19099
Effect of ion sputtering on interface chemistry and electrical properties of an GaAs (100) Schottky contacts
09 p1393 N84-19100
Detection and performance of defects in aluminum coated steels
[DE84-004175] 10 p1461 N84-19545
Transactions of the Industrial Institute of Electronics (selected articles)
[AD-A137204] 10 p1485 N84-19711
Theoretical-experimental analysis of the effects of grain boundaries on the electrical properties of SOI (Silicon-On-Insulator) MOSFETS
[AD-A136975] 10 p1486 N84-19718
Evaluation of nickel-hydrogen battery for space application
[NASA-TM-77355] 10 p1528 N84-20012
Low cost, sprayed CuInSe2 solar cell research
[DE84-005339] 10 p1530 N84-20023
A beam current density monitor for intense electron beams
[AD-A137146] 11 p1660 N84-20832
Microstructure and electrical properties of ceria-based ceramic electrolytes 11 p1741 N84-21361
Metastable transition metal alloys produced by rapid quenching: Structure and properties
[AD-A138296] 12 p1798 N84-21729
Economic implications of current systems
12 p1838 N84-21982
Characterization of grain boundaries in silicon
[NASA-CR-173459] 12 p1912 N84-22460
Electrical, luminescence and SIMS (Secondary ion mass spectroscopy) characterization of carbon implanted vapor phase epitaxial gallium arsenide
[AD-A138094] 12 p1913 N84-22464
Structural and electronic properties of artificial metallic superlattices
[DE84-002771] 12 p1915 N84-22477
Dynamics analysis of electrodynamic satellite tethers. Equations of motion and numerical solution algorithms for the tether
[NASA-CR-171777] 13 p1937 N84-22598
Ion-beam-textured and coated surfaces experiment (S1003) 15 p2273 N84-24650
Transport properties of amorphous silicon-germanium alloy films. Volume 2: Appendices
[DE84-006879] 15 p2414 N84-25495
Investigation of the RF properties of carbon fibre composite materials
[AD-A140261] 16 p2461 N84-25774
Derating requirements and application rules for electronic components
[ESA-PSS-01-301-ISSUE-1] 16 p2484 N84-25930
Defects at electrode-oxide and electrode-silicon interfaces in VHSI device structures
[AD-A140814] 17 p2663 N84-26990
Dependence of properties of Josephson junctions at semiconductor surface on parameters of subsurface layer 18 p2825 N84-27936
Injection currents in GaAs triple crystals
18 p2825 N84-27937
Process Research On Polycrystalline Silicon Material (PROPSM)
[NASA-CR-173753] 18 p2869 N84-28214
Overview of characterization techniques for high speed crystal growth 18 p2936 N84-28619
Testing and failure analysis to improve screening techniques for hermetically sealed metallized film capacitors for low energy applications
[NASA-CR-162071] 19 p3011 N84-29088
Total temperature probe buffer amplifier
[AD-D011037] 19 p3027 N84-29197
On-orbit performance of LIPS gallium arsenide solar cell experiment 19 p3045 N84-29319
Preparation of device quality strained-layer superlattices
[DE84-009488] 19 p3112 N84-29776
Surface-enhanced Raman spectroscopy of electrochemically characterized interfaces. Transition-metal isothiocyanate adsorbates at silver adsorbates
[AD-A142407] 20 p3148 N84-29986
Diffusion and electrical properties of sulfur implanted in gallium arsenide
[AD-A142405] 20 p3308 N84-31012
Broadband cavity-backed slot using printed circuit technology
[AD-P003508] 21 p3384 N84-31476
Nd-3+ Beta prime prime alumina platelet laser
[AD-A142797] 21 p3409 N84-31621
Steady state performance of single-phase reaction motor 21 p3476 N84-32035
Improvement in quality of silicon-based amorphous films 21 p3477 N84-32041
Irradiation of optimized, MBE grown, AlGaAs radiation hardened photodiode
[DE84-008034] 21 p3504 N84-32208
Manufacture and characterization of Pb(1-x)Sn(x)Te photoconductors
[INPE-3045-TDL/157] 22 p3662 N84-33212
Anomalous pressure dependence of dipolar relaxation times in rare earth doped lead fluoride
[AD-A143201] 22 p3662 N84-33215
Theory of the electronic properties of mercury-cadmium-telluride alloys
[AD-A143426] 22 p3663 N84-33221
Studies of structural properties and their relationship to critical parameters in superconducting materials
[AD-A143556] 22 p3664 N84-33227
Non-destructive testing of semiconductors using surface acoustic wave
[AD-A143559] 22 p3664 N84-33228
Defect clusters and electrical properties in transition metal monoxides
[DE84-014851] 22 p3666 N84-33242
Second plateau voltage in nickel-cadmium cells
23 p3737 N84-33684
Interactions of twin boundaries and dislocations in solar silicon
[NASA-CR-173942] 23 p3789 N84-34032
Process Research of Polycrystalline Silicon Material (PROPSM)
[NASA-CR-173935] 23 p3789 N84-34033
Optical and electrical characterization of multiply doped silicon: A study of the Si:(In, Al) system
[AD-A143820] 23 p3830 N84-34294
An experimental study of praseodymium intermetallic compounds at low temperatures
[DE83-704748] 24 p3884 N84-34612
Extended abstracts of the Proceedings of the 2nd International Symposium on Halide Glasses
[AD-A144269] 24 p3888 N84-34624

ELECTRICAL RESISTANCE
NT CONTACT RESISTANCE
A literature survey of the electrical resistance and thermal properties of modern composites and of the fibers and matrices that constitute them
[FOA-C-20505-D6(F9)] 07 p0968 N84-16274
Longitudinal resistivity and intermediate Mach number collisionless transverse magnetosonic shocks
[AD-A137122] 10 p1491 N84-19749
Fine line electromigration. The effect of crossed thermal gradients
[AD-A138854] 13 p2046 N84-23279
Investigation of the influence of the zeta-potential on the filtration rate in the presence of collectors
[NASA-TM-77447] 19 p2987 N84-28927
Novel antistatic packaging materials
[AD-D011069] 19 p3000 N84-29012
Solid-phase reaction of dispersed graphitized material with aluminium and nickel
[BLL-M-35633-(5828.4)] 22 p3551 N84-32482
Texture effect on anisotropy of electric and magnetic properties of titanium alpha-alloys
23 p3708 N84-33506
Methods for use of the single-electrode voltage clamp
[AD-A144177] 24 p3897 N84-34676

ELECTRICAL RESISTIVITY
NT IONOSPHERIC CONDUCTIVITY
NT MAGNETORESISTIVITY
NT PHOTOCONDUCTIVITY
NT PLASMA CONDUCTIVITY
NT SUPERCONDUCTIVITY
Intercalated graphite electrical conductors
01 p0010 N84-10064
Structure and properties of intercalated graphite fiber-polymer composites
[AD-A130832] 01 p0032 N84-10196
Electrical resistances of molten alloys of iron containing carbon, boron and phosphorus
[BLL-M-35214-(5828.4)] 01 p0041 N84-10263
Microwave interaction with thin multiple conductive coatings
[AD-A131091] 01 p0057 N84-10435
Correlation of electrical conductivity and thermal decomposition of phenolic materials
[DE83-009186] 01 p0074 N84-10487
Cloud physics and nucleation theory: Revisions indicated by new measurements of the electrical conductivity of evaporation-humidified air
[AD-A130696] 01 p0108 N84-10703
Design and testing of high performance brushes
[AD-A131348] 02 p0213 N84-11394
Terrain effects in resistivity and magnetotelluric surveys
[DE83-014084] 02 p0240 N84-11575
Ionic conductivity in lithium hexaoxometallate solid solutions
[AD-A131842] 03 p0346 N84-12250
Development of materials for open-cycle MHD
[DE83-016334] 03 p0445 N84-12926
Direct coronal heating from dissipation of magnetic field 03 p0466 N84-13069
Superconducting niobium thin film slow-wave structures 04 p0518 N84-13405
Excitation frequency dependence of conductivity of electrolytic solutions
[AD-A132782] 05 p0650 N84-14272
Transport properties of polycrystalline Ni3Al
[DE84-001969] 05 p0656 N84-14313
Advanced fuel-cell development
[DE84-002685] 05 p0676 N84-14445
Electrical conductivities of polycrystalline and single-crystal Er2O3-stabilized hafnia
[DE83-017681] 06 p0811 N84-15279
Aspects of damping of sonic vibrations due to impact loading in plate steels
[BLL-M-35295-(5828.4)] 06 p0908 N84-15895
Effect of pressure on conductivity in Poly(Ethylene oxide) complexed with alkali metal salts
[AD-A134562] 07 p0970 N84-16285
Comparison of the characteristics of graphites irradiated at 600 and 9000 deg C
[DE83-015695] 08 p1123 N84-17297
Conductivity mapping of underground flow channels and moisture anomalies in carbonate terrain using electromagnetic methods
[DE84-004098] 08 p1178 N84-17677
Optimum dimensions of solid zirconium dioxide-base electrolyte in transducer of activity meter
08 p1234 N84-18064
Characterization of high temperature electrically conducting oxides
[DE84-002867] 08 p1236 N84-18076
Electrical transport in low resistivity amorphous alloys
[AD-A136331] 09 p1282 N84-18372
The relationship between electrical conductivity and temperature of aviation turbine fuels containing static dissipator additives
[AD-A135751] 09 p1290 N84-18421
The possibilities of application of superconductors in electronics
[AD-A136488] 09 p1307 N84-18543
Detection and performance of defects in aluminum coated steels
[DE84-004175] 10 p1461 N84-19545
Dynamical friction in condensed matter
[DE84-004202] 10 p1589 N84-20415
A study of heterojunction solar cells based on n-CdS and several P-type semiconductors
11 p1672 N84-20914
Voltage controlling mechanisms in low resistivity silicon solar cells: A unified approach
[NASA-TM-83612] 11 p1673 N84-20916
Transport properties of selected metal oxides
11 p1740 N84-21356
Microstructure and microanalysis in relation to the grain boundary conductivity effect in doped ceria
11 p1741 N84-21358
Redox behavior of high temperature electrodes
11 p1741 N84-21359

Preparation and properties of electrically conducting ceramics based on indium oxide-rare Earth oxides-hafnium oxide 11 p1741 N84-21360
AC measurements on fuel cells and fuel cell components 11 p1741 N84-21362
AC conductivity of polycrystalline Ca-Alpha-double prime-alumina
[DE84-005529] 11 p1745 N84-21386
Study of the initial stages of anodic oxidation of polycrystalline silver in KOH solutions
[AD-A138381] 12 p1793 N84-21694
Accelerated degradation of silicon metallization systems 12 p1838 N84-21983
Fundamentals of metal-semiconductor contacts 12 p1838 N84-21985
Metallization problems with concentrator cells 12 p1839 N84-21990
Scattering of an electromagnetic plane wave from a perfectly electrically conducting half-plane in the proximity of planar media discontinuities
[AD-A138968] 13 p1983 N84-22876
The effect of diffusion induced lattice stress on the open-circuit voltage in silicon solar cells
[NASA-TM-83667] 13 p2006 N84-23027
Transient processes in an inductor system consisting of a flat coil and a multilayer conducting medium
[AD-A139053] 13 p2039 N84-23232
Resistivity and strain behavior during transformation cycling in nickel-titanium
[DE84-006640] 14 p2129 N84-23762
Measurement techniques for high-resistivity detector-grade silicon
[PB84-155902] 14 p2149 N84-23877
A transmission line bridge for the diagnostics of plasma channels
[AD-A139286] 14 p2226 N84-24362
Electrical conductivity of an arbitrarily dense plasma
[DE84-008006] 14 p2230 N84-24374
Summary of environmentally induced electrical discharges on the P78-2 (SCATHA) satellite
[AD-A140077] 15 p2282 N84-24705
Cathode materials development for carbonate fuel cells
[DE84-010033] 15 p2363 N84-25179
On the breakdown of acceleration waves in radiative magneto-fluids 15 p2402 N84-25415
Sustainment dynamo reexamined: Nonlocal electrical conductivity of plasma in a stochastic magnetic field
[DE84-007485] 15 p2412 N84-25478
The application of the black electrically conductive coating CHEMGLAZE H322
[ESA-PSS-01-734-ISSUE-1] 16 p2471 N84-25834
The application of the black electrically conductive coating CHEMGLAZE L300
[ESA-PSS-01-735-ISSUE-1] 16 p2471 N84-25835
Electromagnetic properties of sea ice
[AD-A140330] 16 p2534 N84-26268
Conductivity in semiconductors induced by vibrational-to-electronic energy transfer
[AD-A140094] 16 p2553 N84-26380
Resistivity of a 2-D electron gas under strong magnetic field using a memory function formulation
[INPE-3118-PRE/513] 16 p2558 N84-26407
Resistivity of a disordered 2-D electron gas in terms of force-force correlation function
[INPE-3065-PRE/482] 16 p2558 N84-26408
Memory function formalism applied to electronic transport in disordered systems
[INPE-3064-PRE/481] 16 p2559 N84-26418
Low temperature structure and properties of graphite lamellar compounds
[AD-A140675] 17 p2768 N84-27579
High-resistance measuring standards of electrical resistance 18 p2826 N84-27939
Process Research On Polycrystalline Silicon Material (PROPSM) --- flat plate solar array project
[NASA-CR-173754] 18 p2869 N84-28213
Process Research On Polycrystalline Silicon Material (PROPSM)
[NASA-CR-173753] 18 p2869 N84-28214
Deposition of diamondlike carbon films
[NASA-CASE-LEW-14080-1] 19 p2996 N84-28986
Program for research on conducting polymers
[AD-A142148] 19 p3000 N84-29009
Electrical monitoring of polymerization reactions with the charge-flow transistor
[AD-A142267] 19 p3000 N84-29010
High power optical switch for microsecond switching
[AD-D011064] 19 p3017 N84-29123
Organic semiconductor vapor sensing method
[AD-D011070] 19 p3017 N84-29127
Monolithic amplifier
[AD-D011075] 19 p3017 N84-29129
High temperature electrical conductivity of rigid polyurethane foam
[DE84-008699] 19 p3018 N84-29137
Radiation tolerance of low resistivity, high voltage silicon solar cells 19 p3045 N84-29318
Process research of non-CZ silicon material
[NASA-CR-173759] 19 p3050 N84-29353
Anion permselective membrane
[NASA-CR-174725] 19 p3050 N84-29358
Ion conduction poly(vinyl acetate)
[AD-A142249] 19 p3096 N84-29660
Alkali-free phosphate glasses for high temperature, high electrical resistivity applications
[DE84-011533] 20 p3164 N84-30091
Electron-microscopic microstructural examination of glassy Ge-Se semiconductors 20 p3287 N84-30871
Kinetics of complexation of the macrocycles 18C6 and 12C4 ethers with LiAsF-6 in 1,2-dimethoxyethane at 25 deg C
[AD-A143086] 21 p3359 N84-31304
Energy storage capacitors. Lecture 4: Appendix
[DE84-010040] 21 p3395 N84-31546
Improved materials for DC dynamic scattering at elevated temperatures
[AD-A143076] 21 p3504 N84-32207
NMP, electrical relaxation, and high pressure electrical conductivity in ion conducting polymers
[AD-A143202] 22 p3546 N84-32451
Electrically conducting poly(vinyl acetate)
[AD-A143199] 22 p3559 N84-32538
High-speed thyristors on weakly doped GaAs 22 p3568 N84-32600
Photovoltaic system grounding and fault protection 22 p3584 N84-32696
Mechanisms of electrical conductivity in olivine
[DE83-017313] 22 p3588 N84-32723
Electro-optical switching and memory display device
[DE84-014227] 23 p3744 N84-33732
Development of metallization process: FSA project, cell and module formation research area
[NASA-CR-173951] 23 p3788 N84-34022
Electrical conductivity in random alloys
[DE84-701207] 24 p3884 N84-34611
Study of metal-insulator transition 24 p3955 N84-35044
Measurement and evaluation of arc characteristics (Ar,N2)
[NASA-TM-77507] 24 p3965 N84-35106

ELECTRICALLY SUSPENDED GYROSCOPES
U ELECTROSTATIC GYROSCOPES

ELECTRICITY
NT ALTERNATING CURRENT
NT ATMOSPHERIC ELECTRICITY
NT AURORAL ELECTROJETS
NT ELECTROJETS
NT EQUATORIAL ELECTROJET
NT GEOELECTRICITY
NT HYDROELECTRICITY
NT IONOSPHERIC CURRENTS
NT STATIC ELECTRICITY
Systems analysis of electricity production from coal using fuel cells
[NASA-CR-173157] 07 p1026 N84-16645
Weather effects on electricity peak loads in the Southwest of the Netherlands and verification of the estimation of these maxima, 1 January 1972 - 1 January 1983
[KNMI-WR-83-14(DM)] 10 p1540 N84-20095
An assessment of advanced technology for industrial cogeneration
[NASA-CR-173456] 12 p1841 N84-22001
Advanced cogeneration research study: Executive summary
[NASA-CR-173467] 12 p1841 N84-22005
Predicting energy savings attributed to daylighting 16 p2514 N84-26132
The predicted impact of linear roof apertures on the energy performance of office buildings 16 p2514 N84-26133
USSR report: Physics and mathematics
[JPRS-UPM-84-001] 20 p3285 N84-30862
USSR report: Physics and mathematics
[JPRS-UPM-84-005] 21 p3484 N84-32081
Improved heat exchanger for electrothermal devices
[NASA-CASE-LEW-14037-1] 22 p3542 N84-32425
Modeling of lethal electric shock 22 p3629 N84-33000
Severe storm electricity 24 p3926 N84-34851

ELECTRO-OPTICAL EFFECT
Variable transmittance electrochromic windows 16 p2517 N84-26158
Optics and materials research for controlled radiant energy transfer in buildings 16 p2517 N84-26159

ELECTRO-OPTICAL PHOTOGRAPHY
A CCD photometric camera for satellite observation
[AD-A137214] 11 p1660 N84-20833
Modular Optoelectronic Multispectral Scanner (MOMS) program outline and future aspects 23 p3764 N84-33861
Modular Optoelectronic Multispectral Scanner (MOMS)-01 on STS-7 and STS-11: Missions and results 23 p3765 N84-33862
The information network for a real-time controlled data acquisition of the Modular Optoelectronic Multispectral Scanner (MOMS) 23 p3765 N84-33863
Spectral significance of Modular Optoelectronic Multispectral Scanner (MOMS) versus LANDSAT data and future aspects: Preliminary results 23 p3765 N84-33864
Modular Optoelectronic Multispectral Scanner (MOMS) data of Bolivia: Comparison with LANDSAT Multispectral Scanner (MSS) and geological interpretation 23 p3765 N84-33865
Modular Optoelectronic Multispectral Scanner (MOMS), interpretation and evaluation of the MOMS-image Arica, west coast of South America 23 p3765 N84-33866
Research on the use of metal-organic compounds as photoconductors in electrophotography
[BMFT-FB-T-84-112] 23 p3825 N84-34262
Development of optomechanical deflectors for light beams and electronical-optical deflectors with subsequent generation of light to represent characters digitally or partially
[BMFT-FB-T-84-140] 23 p3826 N84-34264

ELECTRO-OPTICS
Symbology verification study
[AD-A131328] 02 p0177 N84-11162
FOSS (Fiber Optic Sensor System) FDM (Feasibility Demonstration Model) electrooptical tow cable termination
[AD-A131319] 02 p0294 N84-11925
Optical systems and statistical optics
[AD-A131297] 02 p0294 N84-11928
The modular optoelectronic scanner (MOMS) on STS-7, June 83 03 p0396 N84-12589
Effect of silane fraction on the optoelectronic and photovoltaic properties of RF-glow-discharge a-Si:H prepared from SiH4 + H2 mixtures
[DE83-016730] 04 p0615 N84-14058
An experimental device for real time determination of slant path atmospheric contrast transmittance (prototype status)
[AD-A134000] 05 p0702 N84-14610
Modular Optoelectronic Multispectral Scanner (MOMS). Digital image storage
[MBB-UA-686-82-OE] 05 p0746 N84-14901
Testing and characterizations of infrared sensor over the temperature range of 2 Kelvin to 300 Kelvin 06 p0820 N84-15347
Suitability of commercially available laboratory cryogenic refrigerators to support shipboard electro-optical systems in the 10 - 77 Kelvin region 06 p0821 N84-15355
Real-time synthetic aperture radar image formation utilizing an electrooptic spatial light modulator 07 p0989 N84-16411
Electro-optical transmission and liquid water content of fogs and clouds
[AD-A134307] 07 p1039 N84-16738
E/O (Electro-Optical) augmentation environmental temperature test
[AD-A134296] 07 p1075 N84-16988
A search for Earth-crossing asteroids, supplement
[NASA-CR-173255] 07 p1092 N84-17101
RLE (Research Laboratory of Electronics)
[AD-A134812] 08 p1151 N84-17495
Long wavelength InGaAsP/InP lasers and optoelectronic integration 08 p1163 N84-17573
Synoptic meteorology during the SNOW-ONE-A field experiment
[AD-A134888] 08 p1191 N84-17762
Electric field distortion in electro-optical devices subjected to ionizing radiation
[AD-A136573] 09 p1308 N84-18549
Development and applications of the microchannel spatial light modulator
[AD-A136132] 09 p1323 N84-18645
Emission and transmission of atmospheric radiation and their influence on the performance of electro-optics systems measurement, analysis and modelling
[AD-A137359] 10 p1479 N84-19665
Large enhancement of the Sagnac effect based on nonlinearly induced nonreciprocity
[AD-A137080] 10 p1579 N84-20344
GaAs gigabit monolithic optoelectronic transmitter
[AD-A136894] 10 p1589 N84-20413
Future directions in optical processing 12 p1904 N84-22403
Large aperture optical switching devices
[DE84-005126] 12 p1908 N84-22433
Exhaust plume induced fluctuations in the index of refraction at optical wavelengths 13 p1941 N84-22624
USSR report: Engineering and equipment
[JPRS-UEQ-84-004] 13 p1967 N84-22772

Controller for the electro-optical shutter of a dual pulse laser
13 p1968 N84-22776
A high temperature optical displacement measuring system — gas turbine blades
[PNR-90186] 13 p2044 N84-23261
Ferroelectric tungsten bronze bulk crystals and epitaxial thin films for electro-optic device applications
[AD-A138693] 13 p2046 N84-23278
New materials for infrared transmitting electrooptic filters
[AD-A139272] 14 p2224 N84-24349
Chaos in optical bistability 14 p2232 N84-24388
Optical hysteresis and bistability in the wave-front conjugation by electrooptic crystals
14 p2234 N84-24406
Self-beating instabilities in bistable devices
14 p2236 N84-24415
Empirical and analytical study of instabilities in hybrid optical bistable systems 14 p2236 N84-24416
Holographic data storage crystals for LDEF (A0044)
15 p2277 N84-24677
Investigation of the effects of long-duration exposure on active optical system components (S0050)
15 p2279 N84-24687
Space environment effects (M0006)
15 p2279 N84-24690
Solar-assisted hydrogen generation by photoelectrocatalysis: Electric birefringence and ellipsometric spectroscopy of the semiconductor/electrolyte interface
[PB84-169804] 15 p2288 N84-24731
Dye laser traveling wave amplifier
[NASA-CR-175228] 15 p2338 N84-25036
Expected energy method for electro-optical SNR calculations
[AD-A139984] 15 p2398 N84-25389
Development of new electro-optic and acousto-optic materials
[AD-A139946] 15 p2408 N84-25453
Fluorescent guests in thermotropic and chirality in lyotropic liquid crystals
[AD-A139985] 15 p2413 N84-25487
Utilization of light wave scales and opto-electronic transformers for measuring distortion and expansion
[ISD-309] 16 p2557 N84-26402
Equipment and results of test of cooler for electro-optical transducer 17 p2636 N84-26866
Aerosol chamber of Atmospheric Optics Institute
18 p2864 N84-28183
Infrared absorption spectroscopy with color center lasers
[DE84-008812] 19 p2990 N84-28945
High image quality sub 100 picosecond gated framing camera development
[DE84-008326] 19 p3028 N84-29203
Electro-optical transmission and liquid water content of fogs and clouds
[AD-A142294] 20 p3245 N84-30597
Diffusion and electrical properties of sulfur implanted in gallium arsenide
[AD-A142405] 20 p3308 N84-31012
USSR report: Electronics and electrical engineering
[JPRS-UEE-84-008] 21 p3376 N84-31427
Embedded information transfer technology assessment
[AD-A142649] 21 p3391 N84-31518
USSR report: Physics and mathematics
[JPRS-UPM-84-003] 21 p3477 N84-32043
A multi-GHz multi-channel photonic analog data processing system
[DE84-012281] 21 p3499 N84-32175
Radiation effects in optoelectronic devices
[DE84-012889] 21 p3499 N84-32176
Liquid crystal materials for matrix displays
[AD-A143039] 21 p3504 N84-32206
Large aperture electro-optical switch
[DE84-013089] 22 p3588 N84-32728
New machines for grinding, facetting and profiling hard materials
[CSIR-TRANS-1750] 22 p3603 N84-32821
Influence of the interfacial layer on electrooptical properties of heterojunction solar cells
[DE84-013285] 22 p3618 N84-32925
Naval applications for Remotely Piloted Vehicles (RPV's)
[AD-A143826] 23 p3693 N84-33405
Study in spurious sensitivity of electronics
[AD-A143947] 23 p3742 N84-33719
Electro-optical switching and memory display device
[DE84-014227] 23 p3744 N84-33732
An evaluation of the Malvern optical particle monitor
[DE83-017039] 23 p3751 N84-33775
Atmospheric contrast transmittance monitor
[AD-D011167] 23 p3798 N84-34083
Broadband guided-wave optical frequency translator using an electro-optical Bragg array
[AD-D011164] 23 p3825 N84-34260
Activities of the Technical Physics Service of the Dutch Central Organization for Scientific Research, past and present 23 p3845 N84-34393
Optoelectronic programmable logic arrays
24 p3941 N84-34948
Industrial optodigital inspection system
24 p3942 N84-34955

ELECTROACOUSTIC TRANSDUCERS
NT HYDROPHONES
NT LOUDSPEAKERS
NT MICROPHONES
Research and development of subsurface acoustic wave device configurations for sensor applications
[AD-A133659] 05 p0742 N84-14877
Results from wind tunnel and artificial rainfall tests of the modified scan sensor
[AD-A133238] 06 p0792 N84-15162
Absolute electroacoustic measurement of temperature oscillations in superfluid helium by the reciprocity method
[AD-A136951] 10 p1575 N84-20322
Frequency selected and amplitude limited personal noise protectors
[BMFT-FB-HA-84-016] 18 p2915 N84-28488

ELECTROACOUSTIC WAVES
Strong acoustic wave action — on the atmosphere
05 p0636 N84-14186

ELECTROCARDIOGRAMS
U ELECTROCARDIOGRAPHY

ELECTROCARDIOGRAPHY
Main electrocardiographic abnormalities in the medical examination of flying personnel
11 p1699 N84-21083
Ventricular pre-excitation syndromes
11 p1699 N84-21084
The exercise electrocardiogram
11 p1699 N84-21085
Continuous ECG monitoring by the Holter method
11 p1700 N84-21086
The Holter method in aeronautical medicine
11 p1700 N84-21087
Use of changes in electrical impedance in cardiology
11 p1701 N84-21094

ELECTROCATALYSTS
Oxygen electrodes for energy conversion and storage
[DE84-003919] 07 p0999 N84-16476
Electrocatalysis of oxygen using water soluble metal porphyrins and chemically modified porphyrin electrodes
[AD-A136062] 09 p1280 N84-18358
Fuel cells for transportation applications
[DE84-003969] 09 p1310 N84-18564
Development of molten carbonate fuel cell power plant technology
[DE84-002367] 10 p1487 N84-19720
Electrocatalysis of fuel cell reactions: Investigation of alternate electrolytes
[NASA-CR-173261] 10 p1529 N84-20013
Electrochemistry of the sulfide-polysulfide couple
[DE84-005881] 11 p1629 N84-20661
Mechanisms of catalytic oxidation of hydrocarbons in a solid-electrolyte fuel cell 11 p1742 N84-21366
Fundamental processes occurring at electrodes
[AD-A138038] 12 p1791 N84-21679
Steam reforming of fuel to hydrogen in fuel cell
[DE84-011115] 20 p3181 N84-30205
Energy Conversion and Utilization Technologies Program (ECUT) electrocatalysis research
[NASA-CR-173939] 23 p3713 N84-33534
Research on oxidation by air and tempering of Raney nickel electrocatalysts for the H2 anodes of alkali combustion materials cells
[NASA-TM-77414] 23 p3713 N84-33535

ELECTROCHEMICAL CELLS
NT ALKALINE BATTERIES
NT DRY CELLS
NT ELECTRIC BATTERIES
NT FUEL CELLS
NT HYDROGEN OXYGEN FUEL CELLS
NT LEAD ACID BATTERIES
NT LITHIUM SULFUR BATTERIES
NT METAL AIR BATTERIES
NT NICKEL CADMIUM BATTERIES
NT NICKEL HYDROGEN BATTERIES
NT NICKEL IRON BATTERIES
NT NICKEL ZINC BATTERIES
NT PHOSPHORIC ACID FUEL CELLS
NT PRIMARY BATTERIES
NT REDOX CELLS
NT REGENERATIVE FUEL CELLS
NT SILVER HYDROGEN BATTERIES
NT SILVER ZINC BATTERIES
NT SODIUM SULFUR BATTERIES
NT STORAGE BATTERIES
NT THERMAL BATTERIES
NT ZINC-BROMIDE BATTERIES
NT ZINC-CHLORINE BATTERIES
Comparative response of lead-acid and nickel-iron batteries to pulsed and constant-current loads
[DE83-017939] 03 p0368 N84-12395
Safety studies on Li/SOCl-2 reserve battery
[AD-A132279] 04 p0526 N84-13458
Electrochemically Modulated Infrared Spectroscopy (EMIRS). Experimental details
[AD-A137040] 10 p1455 N84-19503
Zinc-bromine cell design
[DE84-005532] 11 p1647 N84-20773
Use of a polyacetylene cathode in primary lithium-thionyl chloride cells
[AD-A138791] 13 p1986 N84-22896
Chemically rechargeable battery
[NASA-CASE-NPO-16024-1] 13 p2007 N84-23020
Simulation of lubricating behavior of a thioether liquid lubricant by an electrochemical method
[NASA-TP-2316] 14 p2129 N84-23764
Transport phenomena in improved electrochemical cell design for the production of magnesium
[DE84-010567] 19 p2989 N84-28944
Transport phenomena in improved electrochemical cell design for the production of magnesium
[DE84-006436] 19 p2995 N84-28978
Electrochemical storage 19 p3048 N84-29342
Dual electrochemical system
[AD-D011035] 19 p3051 N84-29361
Lithium cell reactions
[AD-A142976] 21 p3391 N84-31522
Chemical stability of beta-aluminum
[DE84-009635] 22 p3560 N84-32545
Shunt diode designs in Li/CF Shuttle batteries
23 p3737 N84-33681

ELECTROCHEMICAL CORROSION
Prediction of crack growth aqueous environments
[AD-A131485] 01 p0096 N84-10626
Galvanic coupling between D6AC steel, 6061-T6 aluminum, Inconel 718 and graphite-epoxy composite material: Corrosion occurrence and prevention
[NASA-TP-2236] 04 p0497 N84-13263
Mathematical models of nonlinear galvanic polarization
[AD-A132403] 04 p0589 N84-13895
Calcium-thionyl chloride battery technology
[AD-A133570] 06 p0830 N84-15401
Passive films, surface structure and stress corrosion and crevice corrosion susceptibility
[AD-A135549] 08 p1132 N84-17363
Fundamental mathematical principles for electrochemical engineering
[DE84-002181] 08 p1221 N84-17975
Corrosion and corrosion prevention in gas turbines
[NLR-MP-82048-U] 10 p1431 N84-19355
Determination of the effect of composition, structure and electrochemical mass transport properties on adhesion and corrosion inhibition of paint films
[AD-A138487] 12 p1801 N84-21746
Bimetal and multimetal galvanic corrosion prediction using long- and short-term polarization curves
[AD-A139893] 15 p2297 N84-24786
Anodic oxide formation on Ti-6Al-4V in chromic acid for adhesive bonding
[AD-A140057] 15 p2298 N84-24790
Determining of surface oxide compositions on Alloy 600 using Rutherford backscattering
[DE84-002872] 15 p2299 N84-24797
Corrosion of 5083 aluminum by aqueous sodium sulfate
[DE84-012033] 20 p3156 N84-30045
Galvanic corrosion of an aluminum O-ring
[DE84-011345] 20 p3157 N84-30047
The photoelectrochemistry of conducting polymers
[DE84-010889] 20 p3164 N84-30093
Dependence of rate of growth in aqueous corroive medium on electrochemical conditions at tip of crack
24 p3871 N84-34530

ELECTROCHEMICAL MACHINING
Anodic films
[DE83-016603] 01 p0075 N84-10492

ELECTROCHEMICAL OXIDATION
Recycling of noble metals in connection with electrochemical processes
[BMFT-FB-T-83-140] 02 p0192 N84-11245
Investigation on the oxide layer of aluminium with respect to adhesive bonding
[MBB-BB-530-82-OE] 02 p0202 N84-11315
Discharge kinetics of the nickel electrode
[AD-A134389] 07 p0970 N84-16283
Electrochemistry of anilines. 2: Oxidation to dications, electrochemical and UV/VIS spectroelectrochemical investigation
[AD-A136949] 10 p1454 N84-19498

Anodic oxidation of furans in aprotic solvents
[AD-A137081] 10 p1468 N84-19587
Impedance relaxation spectrum analysis of oxidized silver electrodes
[AD-A138390] 12 p1793 N84-21693
Study of the initial stages of anodic oxidation of polycrystalline silver in KOH solutions
[AD-A138381] 12 p1793 N84-21694
Cathodic stripping voltammetry of thioamides on a rotating silver disk electrode
[AD-A139200] 14 p2122 N84-23718
Effects of H2S on molten carbonate fuel cells
[DE84-010485] 20 p3234 N84-30531
Improved photovoltaic cells and electrodes
[DE84-011105] 21 p3393 N84-31530
Epitaxial thinning process
[NASA-CASE-NPO-15786-1] 24 p3966 N84-35112

ELECTROCHEMISTRY
NT ELECTROLYSIS
NT PHOTOELECTROCHEMISTRY
Special features of electrochemical determination of non-uniformly distributed oxygen in melts
[BLL-M-35105-(5823.4)] 01 p0036 N84-10226
Chemical and electrochemical properties in molten alkaline hydroxides. 2: Oxidising/reducing reactions of oxygen
[BLL-RISLEY-TR-4775-(9091.9F)] 01 p0036 N84-10227
No. 263 chemical and electrochemical properties in molten alkaline hydroxides. 11: Potential-acidity diagram for iron in molten sodium hydroxide at 350 deg C
[BLL-RISLEY-TR-4761-(9091.9F)] 01 p0036 N84-10228
Investigation of the electrochemical formation of Li-C intercalation compounds
[AD-A130879] 01 p0037 N84-10233
Effects of solvent and supporting electrolyte on the electrochemical reduction of sulfur dioxide
[DE83-013436] 01 p0038 N84-10241
Electrochemical characteristics of lithium-silicon alloy electrodes for high-temperature-battery applications
[DE83-014343] 01 p0039 N84-10244
Application of Kelgraph to electrochemical detection to flow injection analysis and high performance liquid chromatography
[PB83-226928] 01 p0039 N84-10248
Features of determination of low concentrations of oxygen in steel by the electrochemical method
[BLL-M-35212-(5828.4)] 01 p0041 N84-10262
Examination of the electrochemical behaviour of titanium in the LiC1-KC1 melt
[BLL-OA-TRANS-3010-(6196.3)] 01 p0042 N84-10273
On the electrochemical precipation of titanium coatings
[BLL-OA-TRANS-3028-(6196.3)] 01 p0043 N84-10274
NASA redox storage system development project, calendar year 1982
[NASA-TM-83469] 02 p0241 N84-11579
Great prospects for fiber optics sensors
[NASA-TM-77357] 02 p0293 N84-11922
Assessment of potential for batteries in space applications 03 p0346 N84-12246
Mechanisms and kinetics of diphthalocyanine electrode processes
[AD-A131726] 03 p0349 N84-12270
Reduction of CO2 to methanol and methane by photo and dark reactions on semiconductor electrodes
[PB83-249490] 03 p0358 N84-12329
Studies of the correlation of electrode kinetics with molecular structure
[AD-A131704] 03 p0433 N84-12838
Electrochemical etching of titanium-alloy castings
[DE84-000244] 04 p0501 N84-13286
International Meeting on Lithium Batteries
[AD-A132371] 04 p0525 N84-13455
Polarization effects in the luminescence of cadmium selenide electrodes
[AD-A133951] 05 p0647 N84-14253
An assessment of selected Army technical manuals
[AD-A132680] 05 p0654 N84-14302
Electrochemistry of chemically sensitive field effect transistors
[AD-A133984] 05 p0674 N84-14427
Electrically controlled coloration of materials
[AD-A133420] 06 p0801 N84-15223
Luminescence probe studies of nafion polyelectrolytes
[AD-A133519] 06 p0801 N84-15224
New polyconjugated oxidation-reduction polymers, as well as a method and apparatus for electrochemical regeneration
[DE84-002813] 06 p0810 N84-15276
Electrochemical studies of redox systems for energy storage
[NASA-CR-174503] 06 p0873 N84-15681
Biomass electrochemistry
[DE84-000020] 07 p0971 N84-16293
Electrochemical kinetics in stress-corrosion cracks
[DE84-002855] 07 p0976 N84-16323
Chemical and electrochemical properties in molten alkaline hydroxides
[BLL-RISLEY-TR-4854-(9091.9F)] 08 p1123 N84-17298
Chemical and electrochemical properties in molten alkaline hydroxides. 3: Oxide and acid complexes of some metallic cations
[BLL-RISLEY-TR-4858-(9091.9F)] 08 p1123 N84-17299
Molten salt electrochemical systems
[AD-A135108] 08 p1124 N84-17304
A photoacoustic study of chemically active systems
[AD-A134663] 08 p1125 N84-17311
The electrochemical behaviour of titanium platinum alloys in anodic oxidation processes. 1: Kinetics and selectivity of the process of the combined formation of O2, H2S2O8 and O3 on the titanium-platinum alloy
[BLL-OA-TRANS-3093-(6196.3)] 08 p1128 N84-17336
Structural and electrochemical properties of platinum-titanium laser surface alloys 08 p1129 N84-17346
Electrochemical carbon dioxide concentrator subsystem development
[NASA-CR-166538] 08 p1205 N84-17857
The definition of the process of electrochemical impregnation of nickel electrodes
[NASA-TM-77356] 09 p1277 N84-18338
Electrocatalysis of oxygen using water soluble metal porphyrins and chemically modified porphyrin electrodes
[AD-A136062] 09 p1280 N84-18358
Charge storage in doped poly(thiophene)
[AD-A137085] 10 p1455 N84-19506
Investigation of electrochromic effects for display application
[BMFT-FB-T-83-212] 10 p1457 N84-19519
Detection and performance of defects in aluminum coated steels
[DE84-004175] 10 p1461 N84-19545
Characterization of physio-chemical properties of polymeric and electrochemical materials for aerospace flight
[NASA-CR-175406] 10 p1465 N84-19568
Theoretical chemical calculations on molecules of air force interest
[AD-A137203] 10 p1576 N84-20326
On the theory of electron, h-atom and proton transfers
[AD-A137511] 10 p1577 N84-20330
Electrochemistry of the sulfide-polysulfide couple
[DE84-005881] 11 p1629 N84-20661
Study of the effect of adsorbed ions on the electrosorption of organic molecules and the kinetics of formation of condensed films
[AD-A137892] 11 p1730 N84-21286
Electrochemical applications of stabilized zirconia 11 p1740 N84-21353
Some non-electrochemical requirements for air electrode materials of high temperature solid electrolyte fuel cells 11 p1742 N84-21363
Defect electrochemistry of oxide electrodes 11 p1742 N84-21364
Oxygen exchange measurements on zirconia-yttria electrolyte surfaces modified by various dopants 11 p1742 N84-21367
Transport behavior of multivalent beta aluminas 11 p1743 N84-21370
ONR (Office of Naval Research) Far East Scientific Bulletin, volume 8, no. 4, October - December 1983
[AD-A138184] 12 p1783 N84-21632
The potential dependence of surface plasmon-enhanced second harmonic generation at thin film silver electrodes
[AD-A138322] 12 p1793 N84-21692
Porous electrodes 1: Numerical simulation using random network and single pore models
[AD-A138382] 12 p1793 N84-21695
Electron-transfer kinetics of redox centers anchored to metal surfaces: Weak- versus strong-overlap reaction pathways
[AD-A139043] 13 p1956 N84-22718
Intramolecular electron transfer at metal surfaces. 2: Comparisons of ligand-bridged CR(3) reduction kinetics at silver versus mercury electrodes
[AD-A139047] 13 p1956 N84-22720
Surface-enhanced Raman spectroscopy of electrochemically characterized interfaces. Relations between Raman scattering intensity and surface coverage for simple anionic adsorbates
[AD-A139054] 13 p1957 N84-22721
Utility of surface reaction entropies for examining reactant-solvent interactions at electrochemical interfaces. Ferricinium-ferrocene attached to platinum electrodes
[AD-A139055] 13 p1957 N84-22722
Redox thermodynamics of surface-bound reactants. Illustrative behavior of Cobalt(3)/(2) macrobicyclic cage complexes
[AD-A139058] 13 p1957 N84-22723
The influence of specific reactant-solvent interactions on intrinsic activation entropies for outer-sphere electron transfer reactions
[AD-A139081] 13 p1957 N84-22725
Resistance characterization of nickel sulfide electrodes in LiCl-containing molten salt electrolytes
[DE84-006734] 13 p1987 N84-22898
Intramolecular electron transfer at metal surfaces. 3: Influence of bond conjugation on reduction kinetics of Cobalt (3) anchored to metal surfaces via thiophenecarboxylate ligands
[AD-A139066] 13 p2041 N84-23242
An experimental estimate of the electron-tunneling distance for some outer-sphere electrochemical reactions
[AD-A139049] 13 p2047 N84-23284
Electrochemical and spectroscopic studies of polypyridine complexes of Fe(2)/(3) and Ru(2)/(3) in the aluminum chloride: N-(1-Butyl)Pyridinium chloride molten salt
[AD-A139170] 14 p2122 N84-23715
Electrochemical polymerization of pyrrole and electrochemistry of polypyrrole films in ambient temperature molten salts
[AD-A139174] 14 p2122 N84-23716
Increased electrochemical window in ambient temperature neutral ionic liquids
[AD-A139194] 14 p2122 N84-23717
Electrochemical reduction reactions involving formic acid
[AD-A139479] 14 p2123 N84-23721
Electrochemical and spectroelectrochemical studies of some coordination compounds in high oxidation states
[DE84-006637] 14 p2123 N84-23727
Electrochemistry at the molecular level
[AD-A140070] 15 p2287 N84-24723
Electrochemistry of carbides and carbon cathodes in molten halides
[DE84-007966] 15 p2287 N84-24725
Fluorescent guests in thermotropic and chirality in lyotropic liquid crystals
[AD-A139985] 15 p2413 N84-25487
On-line monitoring of the true corrosion rate in power plants
[CISE-2156] 16 p2465 N84-25796
Detinning of tin plate scrap
[BMFT-FB-T-84-045] 16 p2466 N84-25805
A new electrochemical technique for evaluation of susceptibility to pitting corrosion
[AERE-M-3372] 18 p2817 N84-27883
New approaches to the synthesis of novel organosilanes
[AD-A141803] 19 p2985 N84-28913
Physico-chemical studies on copper sulfide. The CdS-Cu2S solar cell
[BMFT-FB-T-84-065] 19 p2990 N84-28947
Program for research on conducting polymers
[AD-A142148] 19 p3000 N84-29009
The prediction of electrochemical reactivities from contemporary theory: Some comparisons with experiment
[AD-A142406] 20 p3147 N84-29985
Electrochemical activation parameters for surface-attached reactants evaluation of unimolecular frequency factors for representative ligand-bridged reactions
[AD-A142483] 20 p3148 N84-29990
Application of electrochemical and mechanical impedance measurements to corrosion induced failures
[AD-A142488] 20 p3153 N84-30021
Electrochemistry Research Needs for Mineral and Primary Materials Processing: Report of Workshop
[PB84-192905] 20 p3159 N84-30062
Corrosion fatigue of an Al-Zn-Mg alloy and an Al-Mg-Li alloy 21 p3364 N84-31339
Transport behavior of multivalent beta aluminas
[AD-A142968] 21 p3370 N84-31382
Electrochemical performance of porous nickel sulfide electrodes
[DE84-009586] 22 p3590 N84-32741
Technology Base Research Project for Electrochemical Energy Storage
[DE84-013877] 22 p3619 N84-32930
Molecule microscopy 22 p3681 N84-33337
Inertial energy storage for spacecraft 23 p3735 N84-33669

Performance and safety characteristics of lithium-molybdenum disulfide cells
23 p3736 N84-33672
Kinetics of open circuit processes in undischarged Li/SOCl2 cells
[CONTRIB-336] 23 p3736 N84-33675
Related studies in long term lithium battery stability
23 p3736 N84-33676
Electrochemically deposited cadmium electrode for sealed Ni-Cd cells 23 p3737 N84-33683
Laser beam technology promoting high speed and selective plating processes
[AD-A143715] 23 p3754 N84-33797
Design, analysis and test verification of advanced encapsulation systems
[NASA-CR-173941] 23 p3789 N84-34028
Anodic electrochemical processing of amorphous alloys 24 p3870 N84-34527
Corrosion protective properties of coatings obtained by hydraulic pulse compacting of aluminum powder
24 p3875 N84-34553
Electrochemical behavior of amorphous titanium-based alloy after various annealing conditions
24 p3875 N84-34555
High performance liquid chromatographic studies of the ion exchange selectivity of Nafion
[AD-A144646] 24 p3881 N84-34585
East Europe report: Science and technology
[JPRS-ESA-84-025] 24 p3960 N84-35077

ELECTROCHROMISM

Electrochromic materials for the regulation of solar energy transmission through windows
[DE84-012165] 20 p3311 N84-31029

ELECTROCONDUCTIVITY

U ELECTRICAL RESISTIVITY

ELECTRODE FILM BARRIERS

Anodic films
[DE83-016603] 01 p0075 N84-10492
Liquid crystal light valve structures
[NASA-CASE-MSC-20036-1] 12 p1912 N84-22457

ELECTRODE MATERIALS

Fast turn-on osmium coated cathode
[AD-D011036] 19 p3018 N84-29134
Molten carbonate fuel cell cathode development
[DE84-012101] 21 p3395 N84-31544
Electronically conductive ceramics for high temperature oxidizing environments
[DE84-014506] 22 p3561 N84-32549
Lithium-alloy/metal sulfide battery research
[DE84-013427] 22 p3587 N84-32720
Electrode-active material for electrochemical batteries and method of preparation
[DE84-014508] 22 p3590 N84-32739
Pore-forming fillers for molten carbonate matrices
[DE84-014509] 23 p3715 N84-33551
Integral manifolding structure for fuel cell core having parallel gas flow
[DE84-014664] 23 p3744 N84-33731

ELECTRODEPOSITION

NT ELECTROPLATING
The electrodeposition of titanium coatings
[BLL-OA-TRANS-3057-(6196.3)] 04 p0497 N84-13260
Investigation of the possibilities for the electrodeposition of titanium from non-aqueous solutions
[BLL-OA-TRANS-3069-(6196.3)] 04 p0498 N84-13267
Pulsed electrodeposition of amorphous and composite alloys
[AD-A132848] 05 p0646 N84-14246
Effect of hydrodynamic flow on the morphology of electrodeposited zinc
[DE84-001816] 05 p0651 N84-14281
New profilable bond system for diamond and CBN grinding wheels
[CSIR-TRANS-1707] 06 p0813 N84-15294
Electrodeposition method
[BLL-OA-TRANS-3134-(6196.3)] 08 p1128 N84-17337
Research into the electrodeposition of antimony
[BLL-OA-TRANS-3112-(6196.3)] 09 p1305 N84-18533
Effect of Rhodamine-B on the electrodeposition of lead on copper
[DE84-005535] 11 p1634 N84-20683
Structure and porosity of electrodeposited platinum: Evaluation of 4 plating methods
[PB84-152933] 14 p2129 N84-23763
Electrochemical and surface studies of the deposition of mercury and selenium at a gold electrode
[DE84-007209] 15 p2299 N84-24798
Corrosion of aluminium caused by alternating current
[BLL-ERA-TRANS-2920] 17 p2621 N84-26776
Transport phenomena in improved electrochemical cell design for the production of magnesium
[DE84-010567] 19 p2989 N84-28944
Cadmium plating versus other coatings to prevent corrosion
[AD-A142504] 20 p3153 N84-30022
Electroding of multi-layered epitaxial structures
[AD-D011137] 22 p3661 N84-33209
Electrochemically deposited cadmium electrode for sealed Ni-Cd cells 23 p3737 N84-33683
Laser beam technology promoting high speed and selective plating processes
[AD-A143715] 23 p3754 N84-33797

ELECTRODES

NT ANODES
NT CATHODES
NT CELL ANODES
NT CELL CATHODES
NT COLD CATHODES
NT DIFFUSION ELECTRODES
NT GLASS ELECTRODES
NT HOLLOW CATHODES
NT HOT CATHODES
NT ION SELECTIVE ELECTRODES
NT PHOTOCATHODES
NT PLASMA ELECTRODES
NT SOLID ELECTRODES
NT THERMIONIC CATHODES
NT TUBE ANODES
NT TUBE CATHODES
NT TUBE GRIDS
Electrochemical characteristics of lithium-silicon alloy electrodes for high-temperature-battery applications
[DE83-014343] 01 p0039 N84-10244
Characterization of Kel-F-graphite composite (Kelgraf) electrodes and application to detection in flowing streams
[PB83-224204] 01 p0039 N84-10247
Application of Kelgraph to electrochemical detection to flow injection analysis and high performance liquid chromatography
[PB83-226928] 01 p0039 N84-10248
Characterization of p-type CdTe electrodes in acetonitrile/electrolyte solutions. Nearly ideal behavior from reductive surface pretreatments
[AD-A130764] 01 p0071 N84-10466
Iron-air battery development
[DE83-015842] 01 p0073 N84-10482
Development of a point-electrode conductivity salinometer with high-spatial-resolution for use in very-saline solutions
[DE83-011170] 01 p0085 N84-10550
Effects of vane-tip geometry on the electric fields in radio-frequency quadrupole linacs
[DE83-013214] 01 p0143 N84-10937
Chemically derivatized semiconductor photoelectrodes
[AD-A130716] 01 p0152 N84-11003
Electrographite electrodes from coal tar pitch super needle coke for electric steel manufacturing
[BMFT-FB-T-83-067] 02 p0197 N84-11281
Hybrid power semiconductor switch
[NASA-CASE-LEW-13922-1] 02 p0212 N84-11389
Temperature limitation of primary and secondary alkaline battery electrodes
[DE83-015009] 02 p0214 N84-11404
High-current railgap studies
[DE83-013859] 02 p0290 N84-11898
Excited-state processes of relevance to photoelectrochemistry
[AD-A131300] 02 p0298 N84-11957
Photoelectrochemical electrodes
[NASA-CASE-NPO-15458-1] 03 p0348 N84-12262
Mechanisms and kinetics of diphthalocyanine electrode processes
[AD-A131726] 03 p0349 N84-12270
Effect of antimony on lead-acid battery negative electrode
[DE83-014680] 03 p0369 N84-12404
A multistage spent particle collector and a method for making same
[NASA-CASE-LEW-13914-1] 03 p0376 N84-12447
Studies of the correlation of electrode kinetics with molecular structure
[AD-A131704] 03 p0433 N84-12838
Development of materials for open-cycle MHD
[DE83-016334] 03 p0445 N84-12926
Application of surface-physics techniques to the study of electrochemical systems
[DE84-000957] 04 p0494 N84-13245
Development of a circulating zinc-bromine battery, phase 2
[DE84-001886] 04 p0527 N84-13463
Pre-existing polarization and influence of electrode materials on PVF2 electrets as determined by thermal pulse and pyroelectric methods
[AD-A132896] 05 p0659 N84-14335
High PRF HgBr laser life testing
[AD-A132660] 05 p0686 N84-14511
Polymer coated electrodes in ambient temperature molten salts
[AD-A133202] 06 p0801 N84-15220
Performance of computer-designed small-size multistage depressed collectors for a high-perveance traveling wave tube
[NASA-TP-2248] 06 p0829 N84-15394
Method for the production of electrographite involving about 50% reduction of electrical energy
[BMFT-FB-T-83-162] 07 p0968 N84-16275
Discharge kinetics of the nickel electrode
[AD-A134389] 07 p0970 N84-16283
Abrasive properties of ferroalloys
[BLL-M-35416-(5828.4)] 07 p0973 N84-16306
Electrodes for solid state devices
[NASA-CASE-NPO-15161-1] 07 p0996 N84-16456
The effect of gas bubbles and cavity dimensions on the local electrode potential within pits, crevices and cracks
[AD-A134729] 08 p1132 N84-17364
Electrode noise in beta aluminas
[AD-A134837] 08 p1152 N84-17497
Optimum dimensions of solid zirconium dioxide-base electrolyte in transducer of activity meter
08 p1234 N84-18064
Electrocatalysis of oxygen using water soluble metal porphyrins and chemically modified porphyrin electrodes
[AD-A136062] 09 p1280 N84-18358
Lithium/iron sulfide batteries for electric-vehicle propulsion and other applications
[DE84-004193] 09 p1310 N84-18565
Simulation of edge effects in electroanalytical experiments by orthogonal collocation. Part 4: Application to voltammetric experiments
[AD-A136988] 10 p1455 N84-19500
Electrochemically Modulated Infrared Spectroscopy (EMIRS). Experimental details
[AD-A137040] 10 p1455 N84-19503
Dimensionally stable electrode for fused salt electrolysis (replacement of petrol coke) --- Petrol coke substitutes
[BMFT-FB-T-83-224] 10 p1457 N84-19520
On-site fuel cell power plant technology development program
[PB84-125095] 10 p1538 N84-20076
Thin film technology of high-critical-temperature superconducting electronics
[AD-A136722] 10 p1589 N84-20411
Electrochemistry of the sulfide-polysulfide couple
[DE84-005881] 11 p1629 N84-20661
Technique for manufacturing nickel electrodes
[NASA-TM-77239] 11 p1632 N84-20671
Electrode polarization studies in hot corrosion systems
[DE84-005485] 11 p1634 N84-20686
Transport properties of selected metal oxides
11 p1740 N84-21356
Redox behavior of high temperature electrodes
11 p1741 N84-21359
Some non-electrochemical requirements for air electrode materials of high temperature solid electrolyte fuel cells 11 p1742 N84-21363
Use of single point contact electrodes to understand porous electrode behavior on solid electrolytes
11 p1742 N84-21365
Fundamental processes occurring at electrodes
[AD-A138038] 12 p1791 N84-21679
On the limiting electrode potential in cavities and its role in deciding between SCC (Stress Corrosion Cracking) and HC (Hydrogen Cracking) in metals
[AD-A136585] 13 p1955 N84-22713
A method for evaluating the surface concentrations of 2 like-charged ions simultaneously adsorbed at an electrode-solution interface
[AD-A139074] 13 p1957 N84-22724
Method of making a light weight battery plaque
[NASA-CASE-LEW-13349-1] 13 p1960 N84-22734
The development and fabrication of an implantable, multiplexed, semiconductor multielectrode array
[AD-A138788] 13 p1986 N84-22895
Advanced designs for IPV nickel-hydrogen cells
[NASA-TM-83643] 13 p2008 N84-23025
Testing of sealed lead-acid batteries
[DE84-008209] 14 p2141 N84-23840
Measurement of hydrogen in high strength steels using the barnacle electrode
[AD-A139655] 15 p2297 N84-24784
Electrochemical and surface studies of the deposition of mercury and selenium at a gold electrode
[DE84-007209] 15 p2299 N84-24798
Electrical spray modification with various fuels in a t56 combustor
[AD-A139961] 15 p2304 N84-24824
Full scale phosphoric acid fuel cell stack technology development
[NASA-CR-174660] 16 p2518 N84-26165

Ion exchange selectivity of Nafion films on electrode surfaces
[AD-A140624] 17 p2620 N84-26764
Corrosion of aluminium caused by alternating current
[BLL-ERA-TRANS-2920] 17 p2621 N84-26776
Leakage currents in degraded multi-layer ceramic capacitors
[AD-A140157] 17 p2662 N84-26985
Defects at electrode-oxide and electrode-silicon interfaces in VHSI device structures
[AD-A140814] 17 p2663 N84-26990
Volatilization-excitation phenomena and efficiency of spectrochemical buffers in the analysis of geological samples. 1: The action of the mixture Li2CO3 graphite
[JEN-555] 17 p2729 N84-27369
Chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] 18 p2868 N84-28205
Ion sputter textured graphite electrode plates
[NASA-CASE-LEW-12919-2] 18 p2928 N84-28565
Secondary electron emission characteristics of ion-textured copper and high-purity isotropic graphite surfaces
[NASA-TP-2342] 19 p2997 N84-28989
Development of an all-metal thick film cost effective metallization system for solar cells
[NASA-CR-173760] 19 p3049 N84-29350
Surface-Enhanced Raman Scattering for redox-active adsorbates: Pentaammineosmium (3)/(2) and Pentaammineruthenium (2) containing nitrogen heterocycle ligands
[AD-A142418] 20 p3148 N84-29987
The reliability of standard rate constants for rapid electrochemical reactions
[AD-A142445] 20 p3148 N84-29989
Photoelectrochemistry at iron oxide electrodes
[DE84-011453] 20 p3150 N84-30003
Secondary alkaline batteries
[DE84-010963] 20 p3179 N84-30191
Effect of charging methods on battery electrodes
[DE84-010287] 20 p3179 N84-30196
Development of a lightweight nickel electrode
[NASA-TM-86861] 20 p3234 N84-30528
Reduction of CO2 to methanol and methane by photo and dark reactions on semiconductor electrodes
[PB84-214360] 21 p3363 N84-31334
Improved photovoltaic cells and electrodes
[DE84-011105] 21 p3393 N84-31530
A review of anode phenomena in vacuum arcs
[DE84-012371] 21 p3395 N84-31547
Calculating electric fields in semiconductor structures when singularities are present 21 p3479 N84-32051
Raman and infrared spectroscopy of molecules adsorbed on metal electrodes
[AD-A143466] 22 p3547 N84-32454
Characterization of voltage losses during high-intensity current pulses in reactive, porous electrodes of molten salt cells
[DE84-012112] 22 p3589 N84-32730
Electrode-active material for electrochemical batteries and method of preparation
[DE84-014508] 22 p3590 N84-32739
Negative electrode catalyst for the iron-chromium REDOX energy storage system
[NASA-CASE-LEW-14026-1] 22 p3616 N84-32909
The interpretation of very low frequency Raman scattering from roughened silver electrodes: Clusters, cavities or complexes?
[AD-A143471] 22 p3657 N84-33184
Electroding of multi-layered epitaxial structures
[AD-D011137] 22 p3661 N84-33209
Second plateau voltage in nickel-cadmium cells
23 p3737 N84-33684
Comparison of standard and heart-pacer type 3rd electrodes in design variable cells
23 p3738 N84-33694
Long life nickel electrodes for a nickel-hydrogen cell: Cycle life tests 23 p3739 N84-33698
Factors affecting nickel-oxide electrode capacity in nickel-hydrogen cells 23 p3739 N84-33699
Positive electrode fabrication for bi-poler Ni-H2 cells
23 p3739 N84-33700
Electro-optical switching and memory display device
[DE84-014227] 23 p3744 N84-33732
Second hermonic generation at thin film silver electrodes via surface polaritons
[AD-A143597] 23 p3824 N84-34254
Methods for use of the single-electrode voltage clamp
[AD-A144177] 24 p3897 N84-34676
Frequency synthesizer
[AD-D011203] 24 p3903 N84-34714

ELECTRODIALYSIS
Center for the transfer of desalination technology
[PB83-223057] 01 p0039 N84-10246
Reference plant for high temperature electrodialysis desalting of seawater
[PB84-195841] 22 p3549 N84-32471

ELECTRODYNAMICS
NT ELECTROHYDRODYNAMICS
NT ELECTROMECHANICS
NT QUANTUM ELECTRODYNAMICS
Theory of pulse propagation and coherence in free electron
[AD-A133334] 06 p0850 N84-15544
Investigation of electrodynamic stabilization and control of long orbiting tethers
[NASA-CR-170972] 08 p1115 N84-17251
Electrodynamic interactions between a tethered satellite system and the ionosphere 08 p1119 N84-17279
Tethers in space: Birth and growth of a new avenue to space utilization
[NASA-TM-82571] 12 p1779 N84-21607
Mirrorless intrinsic optical bistability due to the local field correction in the Maxwell-Bloch formulation
14 p2233 N84-24397
Line formation in turbulent media
15 p2421 N84-25542
Black-hole electrodynamics 16 p2578 N84-26540
Electrodynamic analysis of active wave-guide slot line based on GaAs 17 p2631 N84-26830
Problems of technical electrodynamics (selected articles)
[AD-A140972] 18 p2833 N84-27985
Infrared nonlinear processes in semiconductors
[AD-A141032] 18 p2940 N84-28649
Approximation models for electrodynamic systems in solid state millimetric wave devices
22 p3569 N84-32606
Atomic resonance and scattering
22 p3681 N84-33339

ELECTRODYNAMOMETERS
U DYNAMOMETERS

ELECTROENCEPHALOGRAM
U ELECTROENCEPHALOGRAPHY

ELECTROENCEPHALOGRAPHY
Effects of impact acceleration on somatosensory evoked potentials
[AD-A130260] 01 p0113 N84-10734
Neurocognitive pattern analysis
[AD-A131302] 01 p0114 N84-10740
Neuromagnetic investigation of workload and attention
[AD-A136172] 10 p1548 N84-20147
New techniques for measuring single event related brain potentials
[AD-A138694] 13 p2021 N84-23107
EEG informational content in prediction of work performance 18 p2895 N84-28368
Variations in EEG in relation to brain functional status
18 p2897 N84-28377
Neuromagnetic investigation of workload and attention
[AD-A140946] 18 p2900 N84-28394
Transient evoked potential in a critical event detection task
[AD-A141335] 18 p2900 N84-28397
Correlation between individual alpha-rhythm parameters and operator's performance while subjected to maximum information input 21 p3453 N84-31909
Measurement and modification of sensorimotor system function during visual-motor performance
[AD-A142919] 21 p3461 N84-31947

ELECTROEROSION
U SPARK MACHINING

ELECTROEXPLOSIVE DEVICES
U INITIATORS (EXPLOSIVES)

ELECTROFORMING
Electroforming of complicated structures for the nuclear and aerospace industry
[MBB-BB-536-82-OE] 02 p0207 N84-11350
Fabrication of pressure vessels from fiber reinforced aluminum by electroforming for space application
[BMFT-FB-W-84-009] 19 p3032 N84-29235
Study of high performance alloy electroforming
[NASA-CR-173828] 20 p3152 N84-30013
Study of high performance alloy electroforming — nickel manganese and nickel cobalt manganese alloys
[NASA-CR-173865] 21 p3366 N84-31350
Study of high performance alloy electroforming
[NASA-CR-173979] 23 p3717 N84-33565

ELECTROGENERATORS
U ELECTRIC GENERATORS

ELECTROHYDRAULIC CONTROL
U HYDRAULIC CONTROL

ELECTROHYDRODYNAMICS
Electrohydrodynamics 01 p0089 N84-10578
Electrodynamic tether experiments in the ionosphere
05 p0642 N84-14222
Polymer characterization by electrohydrodynamic ionization mass spectrometry: Probing composition and chemistry of mixtures in solution
06 p0809 N84-15264
Lubrication of engineering surfaces, phase 2
[DE84-005685] 11 p1665 N84-20863
Electrohydrodynamic and flow instabilities in nematic polymers
[AD-A137812] 11 p1744 N84-21380
Temperature effects in elastohydrodynamically lubricated contacts 15 p2340 N84-25049
Investigation of the characteristics of a ventilated transparent shield
[BLL-M-35562-(5828.4)] 17 p2665 N84-26996

ELECTROJETS
NT AURORAL ELECTROJETS
NT EQUATORIAL ELECTROJET
Variability in the height distribution of electrojet currents of Jicamarca
[INPE-3205-PRE/563] 21 p3442 N84-31840

ELECTROKINETICS
Discharge kinetics of the nickel electrode
[AD-A134389] 07 p0970 N84-16283
Stability and electrokinetic potential of silicon carbide suspensions in aqueous organic media
[NASA-TM-77428] 10 p1454 N84-19494
Preliminary experiments with an electro-osmotic heat pipe laboratory model
[AD-B081344] 15 p2332 N84-25004

ELECTROLESS DEPOSITION
Development of a lightweight nickel electrode
[NASA-TM-86861] 20 p3234 N84-30528
Electroless-plating technique for fabricating thin-wall convective heat-transfer models
[NASA-TP-2349] 21 p3399 N84-31561

ELECTROLUMINESCENCE
Polarization effects in the luminescence of cadmium selenide electrodes
[AD-A133951] 05 p0647 N84-14253
Electroluminescent formation lights for HC-130 P/N special operations. 1: Flight test candidates
[AD-A137662] 11 p1606 N84-20516
A test of electroluminescent panels for a helicopter emergency escape lighting system
[AD-A139478] 14 p2103 N84-23616

ELECTROLUMINESCENT LAMPS
U ELECTROLUMINESCENCE
U LUMINAIRES

ELECTROLYSIS
Preliminary study of the electrolysis of aluminum sulfide in molten salts
[DE83-014552] 01 p0038 N84-10242
Carbonaceous anode depolarizers for electrolytic hydrogen production
[DE83-013278] 01 p0053 N84-10343
Overview of US activities in IEA hydrogen technology. Annex 4: Electrolytic hydrogen production
[DE83-013064] 01 p0053 N84-10344
Electrochemical generation of N2O5
[DE83-013377] 02 p0190 N84-11235
Oxygen production by the moltox process
[DE83-012847] 02 p0190 N84-11237
Fourth International Conference on Photochemical Conversion and Storage of Solar Energy
[DE83-014760] 03 p0403 N84-12638
The effect of the structure of metallo-organic complexes on the electrolytic precipitation of titanium and niobium from nonaqueous electrolytes
[BLL-OA-TRANS-3070-(6196.3)]
04 p0497 N84-13259
Mass transfer at gas-evolving surfaces in electrolysis
[DE84-002567] 05 p0651 N84-14282
Research on the use of space resources
[NASA-CR-173213] 07 p0961 N84-16227
Production of titanium powders by the electrolysis of chloride-fluoride melts with a soluble anode
[BLL-OA-TRANS-3136-(6196.3)]
08 p1128 N84-17338
Process and cell arrangement for producing difficult to reduce elements by fused salt electrolysis
[BLL-OA-TRANS-3137-(6196.3)]
08 p1129 N84-17339
Deposition of polymer films on metal by the electrolysis of aqueous solutions of vinyl monomers
[BLL-LTS-1200/83-(5828.4F)] 08 p1136 N84-17386
Static feed water electrolysis subsystem testing and component development
[NASA-CR-166539] 08 p1205 N84-17856
A melt for electrolytic tungsten plating — using a carbamide base and ammonium chloride
[BLL-OA-TRANS-3160-(6196.3)]
09 p1281 N84-18369
Electrochemistry of anilines. 2: Oxidation to dications, electrochemical and UV/VIS spectroelectrochemical investigation
[AD-A136949] 10 p1454 N84-19496
Dimensionally stable electrode for fused salt electrolysis (replacement of petrol coke) — Petrol coke substitutes
[BMFT-FB-T-83-224] 10 p1457 N84-19520
Research and development on high temperature water vapor electrolysis 11 p1739 N84-21348

High temperature electrolysis of water vapor. Status and perspectives of the German research and development activities 11 p1739 N84-21349
Fusion and high temperature electrolysis 11 p1740 N84-21350
Study of systems and technology for liquid hydrogen production independent of fossil fuels [NASA-CR-173422] 13 p1965 N84-22768
Solar-assisted hydrogen generation by photoelectrocatalysis: Electric birefringence and ellipsometric spectroscopy of the semiconductor/electrolyte interface [PB84-169804] 15 p2288 N84-24731
High temperature electrolysis of water vapor: HOT ELLY, phase 2A [RMFT-FB-T-84-032] 16 p2463 N84-25784
High temperature oxide electrolytes for the splitting of water--the ROC process [AD-A140881] 17 p2620 N84-26765
Transport phenomena in improved electrochemical cell design for the production of magnesium [DE84-006436] 19 p2995 N84-28978
Photovoltaic-electrolyzer system transient simulation results [DE84-010217] 20 p3149 N84-29995
Engineering scoping study of the production of hydrogen and oxygen from the cerium oxide-sodium phosphate/carbonate thermochemical cycle [DE84-010629] 20 p3150 N84-29998
Chemical-hydrogen energy systems [DE84-012876] 20 p3167 N84-30112
Rationale for US DOE energy storage program in hydrogen technology [DE84-010225] 21 p3374 N84-31411
Economics of hydrogen production: The next 25 years [DE84-007279] 21 p3374 N84-31414
Summary status of advanced water electrolysis and hydrogen storage/transport research and development [DE84-012908] 22 p3547 N84-32456

ELECTROLYTE METABOLISM

Adaptive effects of repeated immersion on man 15 p2376 N84-25258
Cerebral metabolism and blood brain transport: Toxicity of organophosphorous compounds [AD-A142705] 22 p3630 N84-33005

ELECTROLYTES

NT ION EXCHANGE MEMBRANE ELECTROLYTES
NT MOLTEN SALT ELECTROLYTES
NT NONAQUEOUS ELECTROLYTES
NT SOLID ELECTROLYTES
Composition gradients in electrolyzed LiCl-KCl melts [DE83-012347] 01 p0037 N84-10237
Characterization of p-type CdTe electrodes in acetonitrile/electrolyte solutions. Nearly ideal behavior from reductive surface pretreatments [AD-A130764] 01 p0071 N84-10466
Report of the research assistance task force on beta-alumina for sodium-sulfur batteries [DE83-013616] 01 p0074 N84-10486
Electrolytic gettering of tritius from air [DE84-000174] 04 p0496 N84-13252
Development of a circulating zinc-bromine battery, phase 2 [DE84-001886] 04 p0527 N84-13463
Solubility of the NiO fuel-cell cathode in Li2CO3 melts as determined by cyclic voltammetry [DE83-014311] 04 p0530 N84-13485
Luminescence probe studies of nafion polyelectrolytes [AD-A133519] 06 p0801 N84-15224
Effects of water on the cathode passivation by lithium dithionite in the Li/SO2 battery [DE84-003103] 07 p0998 N84-16473
Molten salt electrochemical systems [AD-A135108] 08 p1124 N84-17304
Electrodeposition method [BLL-OA-TRANS-3134-(6196.3)] 08 p1128 N84-17337
Fundamental mathematical principles for electrochemical engineering [DE84-002181] 08 p1221 N84-17975
Evaluation program for secondary spacecraft cells. Initial evaluation tests of General Electric Company 4.0 ampere-hour nickel-cadmium spacecraft cells for the AMPTE satellite program [NASA-CR-173357] 09 p1341 N84-18758
Development of molten carbonate fuel cell power plant technology [DE84-002367] 10 p1487 N84-19720
Electrocatalysis of fuel cell reactions: Investigation of alternate electrolytes [NASA-CR-173261] 10 p1529 N84-20013
Biomedical Research Division significant accomplishments for FY 1983 [NASA-TM-85929] 10 p1545 N84-20128
Research and development on high temperature water vapor electrolysis 11 p1739 N84-21348
High temperature electrolysis of water vapor. Status and perspectives of the German research and development activities 11 p1739 N84-21349
Transport properties of fluorite oxides 11 p1740 N84-21355
Microstructure and microanalysis in relation to the grain boundary conductivity effect in doped ceria 11 p1741 N84-21358
Microstructure and electrical properties of ceria-based ceramic electrolytes 11 p1741 N84-21361
Use of single point contact electrodes to understand porous electrode behavior on solid electrolytes 11 p1742 N84-21365
Oxygen exchange measurements on zirconia-yttria electrolyte surfaces modified by various dopants 11 p1742 N84-21367
Fundamental processes occurring at electrodes [AD-A138038] 12 p1791 N84-21679
Assessment of fuel cell propulsion systems [DE84-006323] 15 p2420 N84-25536
The black-anodizing of aluminum with inorganic dyes [ESA-PSS-01-703-ISSUE-1] 16 p2465 N84-25798
Improved acid electrolytes for fuel cells [PB84-179779] 16 p2519 N84-26173
Luminescence titrations of polyelectrolytes [AD-A140823] 17 p2619 N84-26763
Develop and test fuel cell powered on-site integrated total energy systems [NASA-CR-174714] 17 p2723 N84-27329
Long cycle life secondary lithium cells utilizing tetrahydrofuran [AD-A140762] 17 p2723 N84-27331
Genetic control and phenotypic correction of cellular immune response to H-antigen of Salmonella typhimurium 17 p2740 N84-27400
Chromium electrodes for REDOX cells [NASA-CASE-LEW-13653-1] 18 p2868 N84-28205
Study of strong electrolytes by X-ray spectroscopy at the cl k-edge [AD-A142225] 19 p2989 N84-28943
Transport phenomena in improved electrochemical cell design for the production of magnesium [DE84-010567] 19 p2989 N84-28944
Dual electrochemical system [AD-D011035] 19 p3051 N84-29361
Rapid electrolyte exchange procedures for 22 AH nickel-cadmium celgard cells [AD-A142004] 20 p3177 N84-30178
Battery test results on Gould GC2-EV200 [DE84-900635] 20 p3181 N84-30208
Transport properties of concentrated solutions [DE84-008495] 20 p3181 N84-30210
The design and testing of an electrolyte destratification system applied to a 96 V Alco 2200 battery [PB84-184894] 20 p3237 N84-30550
Active material redistribution rates in zinc electrodes: Effect of alkaline electrolyte compositions having reduced zinc oxide solubility [DE84-010709] 21 p3392 N84-31525
Glass electrolytes for sodium/sulfur cells [DE84-013426] 21 p3394 N84-31539
Ampule tests to simulate glass corrosion in ambient temperature lithium batteries, volume 2 [DE84-014330] 22 p3589 N84-32732
Review of flow battery testing at Sandia [DE84-011186] 22 p3589 N84-32734
The interpretation of very low frequency Raman scattering from roughened silver electrodes: Clusters, cavities or complexes? [AD-A143471] 22 p3657 N84-33184
Factors affecting nickel-oxide electrode capacity in nickel-hydrogen cells 23 p3739 N84-33699

ELECTROLYTIC CELLS

Chemically derivatized semiconductor photoelectrodes [AD-A130716] 01 p0152 N84-11003
Evaluation of low melting halide systems for battery applications [AD-A131330] 02 p0242 N84-11582
Development of electrolysis-cell separator for 1250C operation. Advanced alkaline electrolysis cell development [DE84-000439] 04 p0530 N84-13484
Excitation frequency dependence of conductivity of electrolytic solutions [AD-A132782] 05 p0650 N84-14272
Discharge cell for optogalvanic spectroscopy having orthogonal relationship between the probe laser and discharge axis [NASA-CASE-NPO-16271-1] 06 p0849 N84-15537
Membrane separators for circulating electrolyte storage batteries [DE84-002106] 07 p0998 N84-16471
Thiazine dyes for use in photogalvanic cells [DE84-009097] 15 p2330 N84-24990
Performance tests of 4-5 year old lithium sulphur dioxide batteries [AD-A139842] 15 p2363 N84-25176
Transport phenomena in improved electrochemical cell design for the production of magnesium [DE84-006436] 19 p2995 N84-28978
Ion conduction poly(vinyl acetate) [AD-A142249] 19 p3096 N84-29660
Activities at the Brookhaven National Laboratory integrated test bed for advanced hydrogen technology [DE84-010226] 21 p3374 N84-31409
Water vapor electrolysis: Systems considerations and cost/performance benefits [DE84-007389] 21 p3374 N84-31410
Lithium cell reactions [AD-A142976] 21 p3391 N84-31522
The effect of current density on anode depolarization economics [DE84-010465] 21 p3392 N84-31524
Enhanced low-temperature performance of a multicell LiSOC1sub2 battery [DE84-011680] 21 p3394 N84-31537
A review and summary of cell and module mismatch losses from theoretical and experimental studies 22 p3583 N84-32689
Deactivation of thionyl chloride cells [AD-D011113] 22 p3615 N84-32908

ELECTROLYTIC GRINDING

U ELECTROCHEMICAL MACHINING

ELECTROLYTIC POLISHING

U ELECTROPOLISHING

ELECTROMAGNETIC ABSORPTION

NT INFRARED ABSORPTION
NT MULTIPHOTON ABSORPTION
NT PHOTOABSORPTION
NT ULTRAVIOLET ABSORPTION
NT X RAY ABSORPTION
Propagation and absorption of electromagnetic waves in fully relativistic plasmas [DE83-017246] 03 p0450 N84-12959
Optical properties of the marine aerosol as predicted by a BASIC version of the Navy aerosol model [AD-A132411] 04 p0604 N84-13986
Intrinsic and extrinsic properties of fiber optic sensor materials [AD-A135893] 09 p1389 N84-19072
Subbarrier absorption in a stationary superlattice [NASA-TM-77387] 10 p1587 N84-20402
Thermal detectors as X-ray spectrometers [NASA-TM-86092] 14 p2148 N84-23866
Optical nonlinearity and bistability due to the biexciton two-photon resonance in CuCl 14 p2239 N84-24441
Absorptive optical bistability in a bad cavity 14 p2240 N84-24448
Optical bistability in CuCl 14 p2241 N84-24456
Studies on light scattering and absorption properties of ice clouds for visible and infrared laser wavelengths [AD-A140528] 16 p2557 N84-26405
Nature of polarized vibronic sidebands of biexciton absorption in Alpha-oxygen 20 p3289 N84-30884
Photon-photon absorption and the uniqueness of the spectra of active galactic nuclei [NASA-TM-86117] 21 p3526 N84-32338
Propagation and absorption of electromagnetic waves in fully relativistic plasmas [DE84-013827] 22 p3660 N84-33204

ELECTROMAGNETIC ACCELERATION

Experimental electromagnetic launchers at MRL [MRL-R-894] 08 p1150 N84-17482
Superconductivity for electromagnetic guns [AD-A140665] 17 p2764 N84-27556
Electromagnetic launchers and guns, phase 1 [AD-A143778] 23 p3698 N84-33435
Phenomenology of plasma engine cathodes at high current rates and low pressures [NASA-TM-77729] 24 p3866 N84-34502

ELECTROMAGNETIC COMPATIBILITY

Basic EMC technology advancement for c3 systems. Volume 2A: Macromodels of op amps for CADA applications [AD-A133661] 05 p0675 N84-14435
Advanced Concepts for Avionics/Weapon System Design, Development and Integration [AGARD-CP-343] 06 p0768 N84-15034
Increasing significance of electromagnetic effects in modern aircraft development 06 p0769 N84-15041
Computer graphics techniques for aircraft EMC analysis and design 06 p0771 N84-15055
Design and verification of electromagnetic compatibility in airborne weapons systems 06 p0773 N84-15066
Achievement of electromagnetic compatibility in weapon systems --- ships 08 p1142 N84-17430
EMC (electromagnetic compatibility) modeling and analysis: A probabilistic approach [AD-A135664] 09 p1301 N84-18505

Intrasystem Analysis Program (IAP) code summaries
[AD-A135673] 09 p1301 N84-18507
EMC (electromagnetic compatibility) system test and analysis interface
[AD-A136064] 09 p1303 N84-18519
Spectrum resource assessment in the 5850-5925 MHz
[PB84-127430] 09 p1305 N84-18530
Assessment of satellite power flux-density limits in the 2025-2300 MHz frequency range, part 1
[PB84-129402] 09 p1305 N84-18532
Interference measurements on amplitude compandored single sideband (ACSB) land mobil radio
[PB84-123645] 10 p1484 N84-19702
Electro-Magnetic Compatability Test Facility, Bristol
[BAE-BT-10658] 13 p1935 N84-22586
Electromagnetic compatibility in aerospace vehicles
[NLR-MP-83002-U] 15 p2320 N84-24929
Description of an electromagnetic compatibility laboratory
[SNIAS-832-422-103] 15 p2321 N84-24933
Electromagnetic compatibility
[CAHIERS-TECHNIQUES-120] 15 p2322 N84-24942
Action of external interference-carrying field on nonuniform multiwire shield 17 p2635 N84-26859
Modification of the Propagation Measurement File (PMF)
[PB84-169796] 17 p2655 N84-26980
Basic EMC (electromagnetic compatibility) technology advancement for c3 systems. Volume 1: A nonlinear macromodel of the bipolar integrated circuit operational amplifier for electromagnetic interference analysis
[AD-A141369] 19 p3004 N84-29040
C3I system modification and EMC (electromagnetic compatibility) methodology, volume 1
[AD-A141420] 19 p3004 N84-29041
Design guidelines for assessing and controlling spacecraft charging effects
[NASA-TP-2361] 23 p3700 N84-33452

ELECTROMAGNETIC CONTROL
U ELECTROMAGNETS
U REMOTE CONTROL

ELECTROMAGNETIC DEDUCTION
U MAGNETIC INDUCTION

ELECTROMAGNETIC FIELDS
NT FAR FIELDS
NT NEAR FIELDS
NT SYSTEM GENERATED ELECTROMAGNETIC PULSES
Rays and modes on concave surfaces
[AD-A131411] 02 p0210 N84-11371
Electromagnetic forces related to flash-lamp failures in the Nova/Novette amplifiers
[DE83-016524] 02 p0227 N84-11491
The rocket-triggered lightning investigation
[AD-A131409] 02 p0249 N84-11631
Research and development for investigations of metallic adsorptions on metal surfaces by optical techniques complemented by dc resistivity and auger spectroscopy
[AD-A131739] 03 p0361 N84-12351
Scientific-Technical Conference on Acyclic Electric Machines
[AD-A131880] 03 p0366 N84-12381
Horizons of technology (selected articles)
[AD-A131897] 03 p0476 N84-13135
Microwave generators: Oscillating virtual cathodes and reflexing electrons
[DE84-001346] 04 p0522 N84-13433
Motion of ionized electrons under the intense electromagnetic field of the beam
[DE84-001396] 04 p0599 N84-13955
A study of magnetotelluric fields in laterally inhomogeneous Earth models 05 p0671 N84-14413
Rotationally symmetric arrays of apertures on conducting spherical surfaces 05 p0673 N84-14419
Numerical study of electromagnetic fluid turbulence
[DE84-002388] 05 p0750 N84-14923
Fourier optics for the Maxwell field: Formalism and applications
[DE84-002845] 06 p0826 N84-15383
An investigation of strip lines and fin lines with periodic stubs
[AD-A134430] 07 p0997 N84-16466
USSR report: Life sciences. Effects of nonionizing electromagnetic radiation, no. 13
[JPRS-84991] 07 p1043 N84-16762
Animal sensitivity to super-high frequency electromagnetic fields in correlation to age 07 p1043 N84-16766
New trends in standardization of electromagnetic microwave radiation 07 p1044 N84-16767
Use of electromagnetic field in patients following a disruption of cerebral circulation 07 p1044 N84-16768
Theoretical studies relating to the interaction of radiation with matter: Atomic collision processes occurring in the presence of radiation fields
[AD-A134299] 07 p1071 N84-16960
Electromagnetic near-field computations for a broadcast monopole using Numerical Electromagnetics Code (NEC)
[AD-A135975] 09 p1303 N84-18516
Complex vector algebra in electromagnetics
[REPT-S-125] 09 p1304 N84-18526
Elements of dyadic algebra and its application in electromagnetics
[REPT-S-126] 09 p1304 N84-18527
Toroidal self-field corrections to the linear dispersion relation for the negative mass instability in a modified betatron
[AD-A135940] 09 p1377 N84-18995
Nonlinear dynamic polarization force on a relativistic test particle in a nonequilibrium beam-plasma system
[AD-A136768] 10 p1577 N84-20331
An electromagnetic squeezer for compressing squeezable electron tunneling junctions
[AD-A136668] 10 p1588 N84-20410
The Dirichlet-Neumann boundary control problem associated with Maxwell's equations in a cylindrical region
[AD-A137937] 11 p1715 N84-21184
Electromagnetic universes 11 p1757 N84-21468
Certain features of a vacuum magnetic-impulse welding process 12 p1787 N84-21656
The potential dependence of surface plasmon-enhanced second harmonic generation at thin film silver electrodes
[AD-A138322] 12 p1793 N84-21692
New formulas for HED (Horizontal Electric Dipole), HMD (Horizontal Magnetic Dipole), VED (Vertical Electric Dipole), and VMD (Vertical Magnetic Dipole) subsurface-to-subsurface propagation
[AD-A139030] 13 p2033 N84-23187
Prediction of field strengths near HF transmitters
[AD-B078278] 15 p2319 N84-24917
EMV norms: Introduction to the norms of electromagnetic accomodation
[MBB-UR-652-83-O] 16 p2481 N84-25910
Black-hole electrodynamics 16 p2578 N84-26540
Representative electromagnetic field intensities near the Clam Lake, Wisconsin and Republic, Michigan ELF (Extremely Low Frequency) facilities
[AD-A140798] 17 p2654 N84-26972
Development of an EM-based lifeform monitor
[AD-A140583] 17 p2745 N84-27430
Green's function for a dielectric wave-guide filled with a dispersion medium
[ISSN-0208-5658] 19 p3003 N84-29032
Representation of TEM feidls in gyrotropic media by scalar Hertz potentials
[ISSN-0208-5658] 19 p3003 N84-29034
On the scattering of electromagnetic waves by perfectly conducting bodies moving in vacuum. Part 3: Representations of sufficiently smooth solutions of Maxwell's equation and of the scattering program
[AD-A141584] 19 p3005 N84-29050
On the scattering of electromagnetic waves by perfectly conducting bodies moving in vacuum. Part 1: Formulation and reformulation of the scattering problem
[AD-A141746] 19 p3006 N84-29051
On the damped nonlinear equation w sub tt = sigma (w) sub xx gamma w sub t
[AD-A142263] 19 p3008 N84-29070
Solar array: Plasma interactions 19 p3048 N84-29343
Algebraically special, nonaligned nonnull Einstein-Maxwell fields
[MATHS-RES-178] 19 p3114 N84-29783
Nuclear electromagnetic pulse (EMP) and electric power systems
[DE84-010665] 20 p3175 N84-30166
Rat behavior in selection of negative stimulus: Pain or exposure to electromagnetic field 20 p3255 N84-30657
Bilateral carotid ligation and effects of electromagnetic field on conditioned reflex retention and cerebral nucleic acid levels 20 p3258 N84-30677
Scattering properties of a moving dielectric object
[AD-A142845] 21 p3386 N84-31489
Calculation of electromagnetic fields on the surface of and inside cavities — nuclear explosion effects
[SNIAS-841-422-108] 21 p3388 N84-31506
Electromagnetic theory of an antenna for ICR heating of a plasma in Tokamaks
[DE84-012988] 21 p3503 N84-32200
Immunologic effects of electromagnetic fields (1981 - 1983)
[PB84-190602] 22 p3631 N84-33008
Free charged particle behavior in intense laser fields
[DE84-013700] 22 p3653 N84-33160
Autogenerator of beams of charged particles
[DE84-014242] 22 p3654 N84-33163
Optical propagation and communication 22 p3683 N84-33355
Uniform asymptotic solution of the problem of diffraction for a linear quadrupole source
[ISSN-0208-5658] 23 p3729 N84-33631
Wiener-Hopf technique for the equation U(alpha) = K(alpha) L(alpha) + D(alpha) in the case of function K(alpha) with zeroes
[ISSN-0208-5658] 23 p3729 N84-33632
Radiation pressure on atoms: Laser cooling and intense field effects
[AD-A143637] 23 p3754 N84-33793
Research in particles and fields — cosmic rays, gamma rays, and cosmic plasma
[NASA-CR-173928] 23 p3845 N84-34392
Bioelectromagnetics research in West Germany: An assessment
[AD-A144297] 24 p3935 N84-34911
Bioelectromagnetics research in France: An assessment
[AD-A144305] 24 p3936 N84-34912

ELECTROMAGNETIC INTERACTIONS
NT PLASMA-ELECTROMAGNETIC INTERACTION
Physics with polarized beams in e+e(-) colliders
[DE83-016441] 04 p0602 N84-13976
VLF wave injections from the ground 05 p0634 N84-14173
Experience of the axial field spectrometer at the CERN ISR 06 p0910 N84-15912
Electrodynamic interactions between a tethered satellite system and the ionosphere 08 p1119 N84-17279
New horizons in electromagnetic physics
[DE84-002600] 08 p1230 N84-18039
Coupling between 2 arbitrarily oriented dipoles through multilayered shields
[AD-A137129] 10 p1478 N84-19660
Observations of VLF transmitter-induced depletions of inner zone electrons
[AD-A137982] 12 p1847 N84-22042
Electromagnetic coupling between a conducting body and an aperture in an infinite conducting plane
[AD-A138394] 12 p1898 N84-22361
Investigations of the structure and electromagnetic interactions of few body systems
[DE84-006852] 12 p1902 N84-22388
Simulation of electromagnetic instabilities of high-voltage gaps
[DE84-010624] 18 p2812 N84-27851
On the scattering of electromagnetic waves by perfectly conducting bodies moving in vacuum. Part 1: Formulation and reformulation of the scattering problem
[AD-A141746] 19 p3006 N84-29051
The influence of the relativistic character of the electron HF motion on the non-linear wave dynamics in plasmas
[IPPJ-676] 20 p3301 N84-30964
Computer programs for electromagnetic coupling between a conducting body and an aperture in an infinite conducting plane
[AD-A142975] 21 p3386 N84-31491
Free charged particle behavior in intense laser fields
[DE84-013700] 22 p3653 N84-33160
Transient response from thin dyke in the Earth for loop excitation 23 p3776 N84-33941

ELECTROMAGNETIC INTERFERENCE
NT ATMOSPHERICS
NT CHIRP
NT CHIRP SIGNALS
NT COSMIC NOISE
NT CROSSTALK
NT ELECTROMAGNETIC NOISE
NT IONOSPHERIC NOISE
NT JAMMING
NT RADIO FREQUENCY INTERFERENCE
NT SHOT NOISE
NT THERMAL NOISE
NT WHISTLERS
NT WHITE NOISE
Analysis of the Howells-Applebaum algorithm in the presence of moving interference. The use of lattice filters in daptive array processors. Stability analysis of LMS adaptive filters. Adaptive array processors with moving interference
[AD-A130218] 01 p0063 N84-10413
Optimum reception in non-Gaussian electromagnetic interference environments. Part 2: Optimum and suboptimum threshold signal detection in class A and B noise
[PB83-241141] 03 p0363 N84-12364
An analysis of noise and interference in a satellite based mobile communications system 05 p0665 N84-14369
Broadband electromagnetic interference testing for vehicles and electrical subsystems - noncommunications
[AD-A134087] 05 p0666 N84-14381

Research on adaptive antenna techniques 5
[AD-A133676] 05 p0669 N84-14398
Effects of cochannel interference on QPSK systems in a nonlinear satellite channel 05 p0671 N84-14414
USSR rept.: Electronics and electrical engineering. Radar signal reception against background of random interference
[JPRS-UEE-84-001] 07 p0986 N84-16389
Handbook for broadband isotropic antenna system. Volume 1: Operation manual
[PB84-101948] 08 p1153 N84-17510
Experimental evaluation of the interference of a frequency hopping signal on a television signal --- mobile radio systems 10 p1478 N84-19659
Television interference measurements near the MOD-2 WT array at Goodnoe Hills, Washington
[DE84-000030] 10 p1482 N84-19688
Enhancement of spread-spectrum systems through adaptive antenna techniques 13 p1976 N84-22824
Electromagnetic compatibility in aerospace vehicles
[NLR-MP-83002-U] 15 p2320 N84-24929
Description of an electromagnetic compatibility laboratory
[SNIAS-832-422-103] 15 p2321 N84-24933
Electromagnetic compatibility
[CAHIERS-TECHNIQUES-120] 15 p2322 N84-24942
Bounding of signal levels at terminations of a multiconductor transmission-line network
[AD-A139757] 15 p2329 N84-24983
EMV norms: Introduction to the norms of electromagnetic accomodation
[MBB-UR-652-83-O] 16 p2481 N84-25910
Dispersion of sequential detection time for signals submerged in autoregressional interference 17 p2632 N84-26839
Interpretation of radar returns from clear air: Discrimination against clutter 17 p2685 N84-27096
Discrimination against interfering signals at the Poker Flat MST radar 17 p2685 N84-27097
Pulse stuttering as a remedy for aliased ground backscatter 17 p2685 N84-27098
Upset susceptibility study employing circuit analysis and digital simulation
[NASA-TM-85822] 17 p2733 N84-27374
Basic EMC (electromagnetic compatibility) technology advancement for c3 systems. Volume 1: A nonlinear macromodel of the bipolar integrated circuit operational amplifier for electromagnetic interference analysis
[AD-A141369] 19 p3004 N84-29040
Acousto-Optic Adaptive Processing (AOAP)
[AD-A141445] 19 p3100 N84-29689
A technique for simulating conduction interference created by electromagnetic pulses (EMP)
[SNIAS-841-422-104] 21 p3388 N84-31502
INTERMD: A computer program to predict intermodulation product generation on two-way FM radio frequencies
[DE84-013767] 22 p3578 N84-32661
Overview: Techniques for the analysis of spectral and orbital congestion in space systems
[AD-A143973] 23 p3697 N84-33426

ELECTROMAGNETIC MEASUREMENT
Communication techniques: Measuring technique principles and application examples 05 p0671 N84-14410
Comparative antenna measurements in real environment: Steerable null antenna at 30 - 76 MHz
[FOA-C-30303-E2] 08 p1146 N84-17459
Detection of electromagnetic radiation leakage through small structural openings
[AD-A137407] 10 p1479 N84-19667
Scattering experiments at the Ipswich electromagnetic measurements facility: Calibration with perfectly conducting spheres
[AD-A138028] 12 p1806 N84-21772
A system to measure LOS atmospheric transmittance at 19 GHz 15 p2324 N84-24951
Analysis of airborne electromagnetic systems for mapping thickness of sea ice
[AD-A139786] 15 p2373 N84-25235
Development of an EM-based lifeform monitor
[AD-A140583] 17 p2745 N84-27430
In-line, concurrent electromagnetic beam analyzer
[AD-D011040] 19 p3102 N84-29704

ELECTROMAGNETIC NOISE
NT ATMOSPHERICS
NT COSMIC NOISE
NT IONOSPHERIC NOISE
NT SHOT NOISE
NT THERMAL NOISE
NT WHISTLERS
NT WHITE NOISE
An analysis of pC-3 micropulsion in the geomagnetic field
[AD-A132443] 04 p0563 N84-13709
Fiberoptics for propulsion control system
[NASA-TM-83542] 05 p0625 N84-14111
Simulation and interpretation of polarization diversity radar spectral functions
[AD-A132622] 05 p0670 N84-14402
Extraterrestrial radio noise and its effect on radar performance 06 p0870 N84-15662
Meteor scatter communication in an air-ground environment
[AD-A135869] 09 p1301 N84-18506
Application of noise waves and scattering/scattering-transfer matrices for noise analysis of microwave mixers
[REPT-S-137] 09 p1305 N84-18529
Lifetime prediction for electronic components and circuits using the phase noise measuring method
[FB-111] 10 p1487 N84-19723
Error response of a trapezoidal pulses DME technique disturbed by multipath effects and noise
[ESA-TT-747] 16 p2482 N84-25915
Concerning criteria for evaluation of amplitude-frequency characteristic of two-signal selectivity of radio reception channel 17 p2633 N84-26846
Low frequency electric and magnetic noise along the auroral field lines
[NASA-CR-173641] 17 p2727 N84-27358
Generation of broadband electrostatic noise by ion beam instabilities in the magnetotail
[NASA-CR-173643] 17 p2728 N84-27362
Spectral averaging and low-frequency sampling modifications for the IQS 401 FFT (Fast Fourier Transform) spectrum analyzer
[AD-A141181] 18 p2834 N84-27990
Josephson point contacts noise properties at microwave 22 p3569 N84-32602
Temporal evolution of whistler growth in a cold plasma injection experiment
[NASA-CR-173972] 23 p3828 N84-34280

ELECTROMAGNETIC PROPAGATION
U ELECTROMAGNETIC WAVE TRANSMISSION

ELECTROMAGNETIC PROPERTIES
NT ABSORPTANCE
NT ABSORPTIVITY
NT BIREFRINGENCE
NT BRIGHTNESS
NT BRIGHTNESS DISTRIBUTION
NT CAPACITANCE
NT COLOR
NT DICHROISM
NT DIELECTRIC PROPERTIES
NT ELECTRICAL PROPERTIES
NT ELECTROMAGNETIC ABSORPTION
NT FARADAY EFFECT
NT FERROELECTRICITY
NT INDUCTANCE
NT INFRARED ABSORPTION
NT LUMINOSITY
NT OPACITY
NT OPTICAL BISTABILITY
NT OPTICAL PROPERTIES
NT OPTICAL REFLECTION
NT PERMITTIVITY
NT PHOSPHORESCENCE
NT PHOTOCONDUCTIVITY
NT PHOTOELASTICITY
NT PHOTOELECTRIC EFFECT
NT PHOTOELECTRIC EMISSION
NT PHOTOIONIZATION
NT PHOTOVOLTAIC EFFECT
NT PROXIMITY EFFECT (ELECTRICITY)
NT RADIANCE
NT REFLECTANCE
NT REFRACTIVITY
NT SKY BRIGHTNESS
NT SOLAR GRANULATION
NT STELLAR LUMINOSITY
NT TRANSMISSIVITY
NT TRANSMITTANCE
NT TRANSPARENCE
NT TURBIDITY
NT WATER COLOR
Silicon switch development for optical pulse generation in fusion lasers at Lawrence Livermore National Laboratory
[DE84-002798] 07 p1011 N84-16556
Metallic microwave conductivity in shock-loaded rutile
[DE84-002174] 08 p1235 N84-18075
A user's manual for Electromagnetic Surface Patch (ESP) code. Version 2: Polygonal plates and wires
[AD-A135837] 09 p1300 N84-18497
Modeling antennas near to and penetrating a lossy interface
[DE84-004785] 12 p1808 N84-21786
Measuring and modeling of the dielectric properties and attenuation of vegetation 12 p1832 N84-21940
Determination of the sources of radar scattering 12 p1832 N84-21941
Multidimensional modeling of atmospheric effects and surface heterogeneities on remote sensing 12 p1833 N84-21945
Bidirectional spectral reflectance of Earth resources: Influence of scene complexity and atmospheric effects on remote sensing 12 p1833 N84-21946
Performance results of a small-calibre electromagnetic launcher
[MRL-R-917] 16 p2483 N84-25924
Electromagnetic properties of sea ice
[AD-A140330] 16 p2534 N84-26268

ELECTROMAGNETIC PROPULSION
Shot to the moon from a cannon
[AD-A132554] 04 p0490 N84-13216
Results from an experimental railgun system: ERGS-1A
[MRL-R-875] 05 p0743 N84-14879
Electromagnetic propulsion test facility
[NASA-TM-83568] 07 p0961 N84-16229
Optimization of electromagnetic propulsion systems 20 p3139 N84-29929

ELECTROMAGNETIC PULSES
NT SYSTEM GENERATED ELECTROMAGNETIC PULSES
Supplemental grounding of extending EMP collectors
[AD-A131255] 01 p0067 N84-10440
Physical and computer modeling of military earth grounding practices in a HEMP (High-Altitude Electromagnetic Pulse) environment
[AD-A130141] 01 p0070 N84-10454
Potential applications of cable television (CATV) to the FEMA (Federal Emergency Management Agency) communications mission
[AD-A131326] 02 p0209 N84-11367
Ion-ion recombination rate in the EMP source region
[AD-A131148] 03 p0360 N84-12339
Fields and currents and charges on obstacles in a parallel-plate simulator at selected frequencies and with pulse excitation
[AD-A132406] 04 p0520 N84-13418
Fiberoptics for propulsion control system
[NASA-TM-83542] 05 p0625 N84-14111
ELF/VLF (Extremely Low Frequency/Very Low Frequency) long path pulse program for antennas of arbitrary elevation and orientation
[AD-A133676] 05 p0667 N84-14388
Mathematical and physical scaling of triggered lightning --- lightning effects on aircraft circuitry
[DE84-002480] 05 p0709 N84-14646
Modeling and testing for second breakdown phenomena
[DE84-002470] 07 p0994 N84-16444
SAPIENS MEMO 5: The mechanical design of the EMP-simulator SAPIENS
[FOA-C-30320-A3] 08 p1106 N84-17192
Nuclear explosion effects on telecommunication, etc. (effect of EMP and of ionizing radiation on electronics and optical electronics
[FOA-C-30302-A3] 08 p1146 N84-17458
Assessment methodology for the A-7E: Scale model coupling experiments
[DE84-003139] 09 p1256 N84-18199
Theoretical studies on free electron lasers
[AD-A136333] 09 p1321 N84-18627
Transverse mode dynamics in a free electron laser
[AD-A137738] 11 p1662 N84-20846
Study of large viscoplastic strains in cylindrical shells by method of magnetic-pulse loading 13 p1972 N84-22798
An automated system for characterizing laser pulses
[AD-A138580] 13 p1995 N84-22945
Satellite system survivability
[AD-P002147] 14 p2137 N84-23812
F-14 scale model measurements. Part 1: External response
[DE84-008201] 15 p2258 N84-24562
Bounding of signal levels at terminations of a multiconductor transmission-line network
[AD-A139757] 15 p2329 N84-24983
Laser pulse detection method and apparatus
[NASA-CASE-NPO-16030-1] 15 p2339 N84-25037
Identification of scattering mechanisms from measured impulse response signatures of several conducting objects
[AD-A140773] 17 p2653 N84-26971
Passage of strong electromagnetic pulse through semiconductor in external magnetic field 18 p2824 N84-27930
Electromagnetic inspection of wire ropes using sensor arrays
[AD-A141164] 18 p2851 N84-28100

An experimental and theoretical investigation of an Nemp (nuclear electromagnetic pulse simulator) type fast rise lightning simulator
[AD-A141283] 18 p2890 N84-28346
Nuclear electromagnetic pulse (EMP) and electric power systems
[DE84-010865] 20 p3175 N84-30166
The behavior of very large short pulse antennas
[DE84-012372] 21 p3388 N84-31500
Comparison of simulation and measurement techniques for continuous waves and pulses
[SNIAS-841-422-103] 21 p3388 N84-31501
A technique for simulating conduction interference created by electromagnetic pulses (EMP)
[SNIAS-841-422-104] 21 p3388 N84-31502
Calculation of low altitude electromagnetic pulses in the first moments --- after a nuclear explosion
[SNIAS-841-422-105] 21 p3388 N84-31503
Coupling of electromagnetic pulses created by a nuclear explosion on the ground with overhead power cables
[SNIAS-841-422-107] 21 p3388 N84-31505
Calculation of currents induced in a network of overhead power lines by an electromagnetic impulse
[SNIAS-841-422-109] 21 p3388 N84-31507
Test means and methods linked to experiments on systems — electromagnetic pulse effects
[SNIAS-841-422-110] 21 p3389 N84-31508
High power RF klystrons for linear accelerators
[DE84-012074] 21 p3392 N84-31527
PIXE and PBFA 2: Pulsed X-ray source feasibility study
[DE84-011535] 21 p3496 N84-32155
Free charged particle behavior in intense laser fields
[DE84-013700] 22 p3653 N84-33160
Design guidelines for assessing and controlling spacecraft charging effects
[NASA-TP-2361] 23 p3700 N84-33452
Evaluation of methodologies for estimating vulnerability to electromagnetic pulse effects
[AD-A144406] 24 p3894 N84-34663
Measurement of small elastic anisotropy in solids using laser induced ultrasonic pulses
[AD-A144296] 24 p3912 N84-34775

ELECTROMAGNETIC PUMPS
Magnetohydrodynamic power generation, electromagnetic pumps, heat pipes, and thermionic convertors
[DE84-009195] 15 p2411 N84-25475

ELECTROMAGNETIC RADIATION
NT AIRGLOW
NT BLACK BODY RADIATION
NT BREMSSTRAHLUNG
NT CENTIMETER WAVES
NT CERENKOV RADIATION
NT CN EMISSION
NT COHERENT ELECTROMAGNETIC RADIATION
NT COHERENT LIGHT
NT COMET TAILS
NT COSMIC X RAYS
NT CYCLOTRON RADIATION
NT DAYGLOW
NT DECAMETRIC WAVES
NT DECIMETER WAVES
NT ELECTROMAGNETIC PULSES
NT ELECTROMAGNETIC SURFACE WAVES
NT EXTREME ULTRAVIOLET RADIATION
NT FAR INFRARED RADIATION
NT FAR ULTRAVIOLET RADIATION
NT GALACTIC RADIO WAVES
NT GAMMA RAY BURSTS
NT GAMMA RAYS
NT HYDROXYL EMISSION
NT INFRARED RADIATION
NT KILOMETRIC WAVES
NT LIGHT (VISIBLE RADIATION)
NT LIGHT BEAMS
NT LONG WAVE RADIATION
NT LYMAN ALPHA RADIATION
NT MICROWAVE EMISSION
NT MICROWAVES
NT MILLIMETER WAVES
NT MONOCHROMATIC RADIATION
NT NEAR INFRARED RADIATION
NT NIGHTGLOW
NT PHOTON BEAMS
NT PLANETARY RADIATION
NT PLASMONS
NT POLARIZED ELECTROMAGNETIC RADIATION
NT POLARIZED LIGHT
NT RADIO BURSTS
NT RADIO EMISSION
NT RADIO WAVES
NT SHORT WAVE RADIATION
NT SKY RADIATION
NT SKY WAVES
NT SOLAR RADIO BURSTS
NT SOLAR RADIO EMISSION
NT SOLAR X-RAYS
NT SUBMILLIMETER WAVES
NT SUNLIGHT
NT SYNCHROTRON RADIATION
NT SYSTEM GENERATED ELECTROMAGNETIC PULSES
NT TERRESTRIAL RADIATION
NT THERMAL RADIATION
NT TWILIGHT GLOW
NT ULTRAVIOLET RADIATION
NT X RAYS
NT ZODIACAL LIGHT
AGARD Bulletin, technical programme, 1984
[AGARD-BUL-83/2] 01 p0002 N84-10010
Generalized list detection for coded MFSK/FH signaling on ading and jamming channels
[AD-A130199] 01 p0063 N84-10414
Two-layer model of line-of-sight refractive multipath propagation
[AD-A130474] 01 p0064 N84-10418
The singularity expansion method applied to plane wave scattering from a lossy slab on a conducting half-space
[DE83-012942] 01 p0068 N84-10442
The effects of channel tortuosity on electromagnetic radiations from lightning return strokes
03 p0359 N84-12335
Effects of dissipation in one-dimensional inverse problems
[DE83-017692] 03 p0362 N84-12353
The Performance of Antennas in Their Operational Environment
[AGARD-LS-131] 03 p0363 N84-12367
Calculation of ground wave attenuation over irregular, inhomogeneous, layered media using PROGRAM WAGNER 03 p0364 N84-12369
Numerical modeling techniques for antennas
03 p0365 N84-12373
Interaction of the plasma tail of comet Bradfield 1979L on 1980 February 6 with a possibly flare-generated solar-wind disturbance 03 p0475 N84-13126
Wave and particle observations associated with the beam plasma discharge in a space simulation chamber
04 p0489 N84-13210
XWVG: A waveguide program for trilinear tropospheric ducts. Computer program for calculating the signal levels of EM (Electromagnetic) waves propagating over seawater
[AD-A133667] 05 p0669 N84-14399
Reflection and transmission of electromagnetic waves at a rough interface between two different media
[PB83-217588] 06 p0826 N84-15389
Diffraction of a plane electromagnetic wave by an elliptic cylinder: The multi-origin technique
[PB83-166769] 06 p0827 N84-15390
High energy electromagnetic shower position measurement by a fine grained scintillation hodoscope
06 p0912 N84-15928
A measurement of the response of an SCG1-C scintillation glass shower detector to 2-17.5 GeV positrons 06 p0913 N84-15930
Electromagnetic, gravitational, and neutrino waves in flat and curved spacetime 06 p0941 N84-16111
Power line radiation in the magnetosphere
07 p0986 N84-16387
Studies in RF emission and absorption in EBT plasmas
[DE84-002118] 07 p1076 N84-16996
Beat-wave current drive in a magnetized plasma
[DE84-001556] 07 p1077 N84-17003
Biological Effects of Nonionizing Electromagnetic Radiation, volume 7, number 2-4, July - December 1982
[AD-A134674] 08 p1197 N84-17805
Intrasystem Analysis Program (IAP) code summaries
[AD-A135673] 09 p1301 N84-18507
Upper atmosphere research at Rhodes University since 1940: A review 09 p1344 N84-18779
General Electromagnetic Model for the Analysis of Complex Systems (GEMACS) user manual (version 3), volume 1
[AD-A137461] 10 p1480 N84-19669
General Electromagnetic Model for the Analysis of Complex Systems (GEMACS) engineering manual (version 3), volume 2
[AD-A137462] 10 p1480 N84-19670
General Electromagnetic Model for the Analysis of Complex Systems (GEMACS) engineering manual (version 3), volume 3
[AD-A137463] 10 p1480 N84-19671
General Electromagnetic Model for the Analysis of Complex Systems (GEMACS) computer code documentation (version 3), volume 3, part 3
[AD-A137509] 10 p1480 N84-19673
General Electromagnetic Model for the Analysis of Complex Systems (GEMACS) computer code documentation (version 3), volume 3, part 4
[AD-A137510] 10 p1480 N84-19674
UHF (Ultra-High Frequency) propagation measurements
[AD-A137637] 11 p1643 N84-20741
General Electromagnetic Model for the Analysis of Complex Systems (GEMACS) computer code documentation (version 3), volume 3, part 2
[AD-A137464] 11 p1644 N84-20750
Discussion of moment method codes with emphasis on aperture coupling
[DE84-005116] 11 p1644 N84-20751
Wave dynamics of regular and chaotic rays
[DE84-006061] 12 p1911 N84-22452
Computation of radiation in stratified media by Fast Fourier Transform (FFT)
[AD-A138647] 13 p1982 N84-22869
Scattering of an electromagnetic plane wave from a perfectly electrically conducting half-plane in the proximity of planar media discontinuities
[AD-A138968] 13 p1983 N84-22876
Characteristics of the Lower Atmosphere Influencing Radio Wave Propagation
[AGARD-CP-346] 15 p2322 N84-24943
Anomalous propagation and radar coverage through inhomogeneous atmospheres 15 p2326 N84-24967
Biological effects of nonionizing electromagnetic radiation. Volume 8, Number 1: A digest of current literature
[AD-A139296] 15 p2380 N84-25283
Emission effects of memory in rocks
17 p2705 N84-27227
Land use planning for sources of nonionizing electromagnetic radiation
[PB84-156363] 17 p2771 N84-27594
Electromagnetic radiation from a moving conducting tether — tethered satellites
[IFSI-84-2] 18 p2831 N84-27973
On the scattering of electromagnetic waves by perfectly conducting bodies moving in vacuum. Part 2: Scattering by stationary perfect conductors
[AD-A141548] 19 p3005 N84-29047
On the scattering of electromagnetic waves by perfectly conducting bodies moving in vacuum. Part 5: A description of motion and deformation retardation of sets and functions
[AD-A141549] 19 p3005 N84-29048
On the scattering of electromagnetic waves by perfectly conducting bodies moving in vacuum. Part 3: Representations of sufficiently smooth solutions of Maxwell's equation and of the scattering program
[AD-A141584] 19 p3005 N84-29050
On the scattering of electromagnetic waves by perfectly conducting bodies moving in vacuum. Part 4: Kinematic single layer potentials
[AD-A141747] 19 p3006 N84-29052
On the scattering of electromagnetic waves by perfectly conducting bodies moving in vacuum. Part 6: Manifolds in Euclidean spaces, regularity properties of domains
[AD-A141748] 19 p3006 N84-29053
Summary of work on cooled ion frequency standard, fiscal year 1984
[AD-A142189] 19 p3007 N84-29061
On the Bell-Szekeres solution for colliding electromagnetic waves
[MATHS-RES-176] 19 p3010 N84-29078
Spectrum analyzer and analysis method for measuring power and wavelength of electromagnetic radiation
[AD-D011044] 19 p3027 N84-29198
Robotic seam tracking
[AD-A141769] 19 p3031 N84-29228
In-line, concurrent electromagnetic beam analyzer
[AD-D011040] 19 p3102 N84-29704
Analysis of the influence of nonlinear and dissipative effects in atmospheric plasma
[ISSN-0208-5658] 19 p3106 N84-29732
USSR report: Physics and mathematics
[JPRS-UPM-84-003] 21 p3477 N84-32043
Investigation of Bragg reflection of electromagnetic surface waves by diffraction grating
21 p3479 N84-32053
Electromagnetic excitation of sound in metals
21 p3484 N84-32082
Electromagnetic dissociation of radioactive heavy-ion beams
[DE84-012266] 21 p3495 N84-32146
Electromagnetic radiation and scattering in a plasma with azimuthal biasing field 21 p3500 N84-32180
Cyclotron resonant scattering of energetic electrons by electromagnetic waves in the magnetosphere
22 p3621 N84-32946
Electromagnetic wave theory and remote sensing
22 p3683 N84-33350

Analysis of the solution of the problem of diffraction on an asymmetric impedance half-plane
[ISSN-0208-5658] 23 p3729 N84-33633
Solutions of nonlinear equations of magneto-ionic theory
[ISSN-0208-5688] 23 p3794 N84-34059

ELECTROMAGNETIC SCATTERING
NT HALOS
NT LIGHT SCATTERING
NT MICROWAVE SCATTERING
NT MIE SCATTERING
NT RAMAN SPECTRA
NT RAYLEIGH SCATTERING
NT THOMSON SCATTERING
NT X RAY SCATTERING
The interaction of electromagnetic radiation with solid materials
[AD-A130727] 01 p0066 N84-10429
The 2-1/2-dimensional numerical solution for the electromagnetic scattering using a hybrid technique
[DE83-014860] 02 p0210 N84-11374
Bistatic radar cross sections of chaff
[AD-A133967] 05 p0667 N84-14384
Analysis of electromagnetic backscatter from an inlet cavity configuration
[AD-A133626] 05 p0669 N84-14400
Electromagnetic waves near dielectric structures
[AD-A132630] 05 p0670 N84-14403
Analysis of regolith electromagnetic scattering as constrained by high resolution Earth-based measurements of the lunar microwave emission
[NASA-CR-174577] 05 p0764 N84-15012
Coherent electromagnetic wave propagation and scattering in random media
[AD-A133601] 06 p0825 N84-15381
Multifrequency scattering for target characterization and identification: A summary of recent results
06 p0870 N84-15663
Multiple paths on the ocean surface
06 p0870 N84-15666
Radar chaff: A bibliography
[AD-A135928] 09 p1302 N84-18513
Numerical methods for analyzing electromagnetic scattering
[NASA-CR-175423] 10 p1473 N84-19620
General Electromagnetic Model for the Analysis of Complex Systems (GEMACS) user manual (version 3), volume 1
[AD-A137461] 10 p1480 N84-19669
General Electromagnetic Model for the Analysis of Complex Systems (GEMACS) engineering manual (version 3), volume 2
[AD-A137462] 10 p1480 N84-19670
General Electromagnetic Model for the Analysis of Complex Systems (GEMACS) engineering manual (version 3), volume 3
[AD-A137463] 10 p1480 N84-19671
General Electromagnetic Model for the Analysis of Complex Systems (GEMACS) computer code documentation (version 3), volume 3, part 3
[AD-A137509] 10 p1480 N84-19673
General Electromagnetic Model for the Analysis of Complex Systems (GEMACS) computer code documentation (version 3), volume 3, part 4
[AD-A137510] 10 p1480 N84-19674
General Electromagnetic Model for the Analysis of Complex Systems (GEMACS) computer code documentation (version 3), volume 3, part 2
[AD-A137464] 11 p1644 N84-20750
Photometric properties of Europa and the icy satellites of Saturn 11 p1756 N84-21465
Scattering experiments at the Ipswich electromagnetic measurements facility: Calibration with perfectly conducting spheres
[AD-A138028] 12 p1806 N84-21772
Scattering and depolarization of electromagnetic waves-full wave solutions
[AD-A138349] 12 p1807 N84-21782
Measuring roughness of ultrasmooth surfaces by reflectometric method 13 p1974 N84-22807
Calculation procedures for variational, Born and exact solutions for electromagnetic scattering from two randomly separated dielectric Rayleigh cylinders
[AD-A138543] 13 p1982 N84-22865
Scattering of an electromagnetic plane wave from a perfectly electrically conducting half-plane in the proximity of planar media discontinuities
[AD-A138968] 13 p1983 N84-22876
Electromagnetic radiation and scattering from a system of conducting bodies interconnected by wires
13 p1984 N84-22882
Scattering and depolarization of electromagnetic waves--full wave solutions
[AD-A139810] 15 p2321 N84-24934
Spectral characteristics of the return
17 p2685 N84-27095
Interpretation of radar returns from clear air: Discrimination against clutter 17 p2685 N84-27096
Integral equations of electrodynamics in stratified media
[REPT-223] 17 p2757 N84-27501
Scattering of electromagnetic waves at edge of semiinfinite dielectric layer embedded in ideally conducting half-space 18 p2822 N84-27919
On the scattering of electromagnetic waves by perfectly conducting bodies moving in vacuum. Part 2: Scattering by stationary perfect conductors
[AD-A141548] 19 p3005 N84-29047
On the scattering of electromagnetic waves by perfectly conducting bodies moving in vacuum. Part 5: A description of motion and deformation retardation of sets and functions
[AD-A141549] 19 p3005 N84-29048
On the scattering of electromagnetic waves by perfectly conducting bodies moving in vacuum. Part 3: Representations of sufficiently smooth solutions of Maxwell's equation and of the scattering program
[AD-A141584] 19 p3005 N84-29050
On the scattering of electromagnetic waves by perfectly conducting bodies moving in vacuum. Part 1: Formulation and reformulation of the scattering problem
[AD-A141746] 19 p3006 N84-29051
On the scattering of electromagnetic waves by perfectly conducting bodies moving in vacuum. Part 6: Manifolds in Euclidean spaces, regularity properties of domains
[AD-A141748] 19 p3006 N84-29053
Analysis and programming for electromagnetic applications
[AD-A142313] 19 p3009 N84-29071
Analysis of nonuniform dielectric waveguides for millimeter-wave applications
[AD-A141406] 19 p3013 N84-29098
Inverse scattering problem
[AD-A142634] 20 p3291 N84-30894
Scattering properties of a moving dielectric object
[AD-A142845] 21 p3386 N84-31489
Electromagnetic radiation and scattering in a plasma with azimuthal biasing field 21 p3500 N84-32180
Numerical methods for analyzing electromagnetic scattering
[NASA-CR-173916] 22 p3575 N84-32645

ELECTROMAGNETIC SHIELDING
Electromagnetic shielding of full-sized structures by metal arc spraying
[AD-A132883] 05 p0663 N84-14357
Broadband electromagnetic interference testing for vehicles and electrical subsystems - noncommunications
[AD-A134087] 05 p0666 N84-14381
A systematic characterization of the effects of atmospheric electricity on the operational conditions of aircraft 06 p0776 N84-15086
Model calculations for a CO2 mixing laser with screen nozzle
[DFVLR-FB-83-41] 15 p2339 N84-25039
Action of external interference-carrying field on nonuniform multiwire shield 17 p2635 N84-26859
The effect of fluids on waveguides below cutoff penetrations as related to electromagnetic shielding effectiveness
[AD-A144685] 24 p3896 N84-34670

ELECTROMAGNETIC SPECTRA
NT BALMER SERIES
NT ELECTRONIC SPECTRA
NT FRAUNHOFER LINES
NT GAMMA RAY SPECTRA
NT H ALPHA LINE
NT H BETA LINE
NT H GAMMA LINE
NT H LINES
NT INFRARED SPECTRA
NT LINE SPECTRA
NT MICROWAVE SPECTRA
NT RADIO SPECTRA
NT RAMAN SPECTRA
NT RYDBERG SERIES
NT SOLAR SPECTRA
NT STELLAR SPECTRA
NT ULTRAVIOLET SPECTRA
NT VIBRATIONAL SPECTRA
NT VISIBLE SPECTRUM
NT X RAY SPECTRA
Development of a sweep-frequency electromagnetic exploration method for three-dimensional terrain analysis
[AD-A129607] 01 p0064 N84-10422
A study of the angular radiation of Smith-Purcell radiation
[AD-A130095] 01 p0141 N84-10925
Evolution of the ultra high energy cosmic ray spectron by transport equation
[DE83-013711] 03 p0476 N84-13132
SETI science working group report
[NASA-TP-2244] 12 p1869 N84-22178
Research investigation directed toward extending the useful range of the electromagnetic spectrum
[AD-A142209] 19 p3007 N84-29084
Overview: Techniques for the analysis of spectral and orbital congestion in space systems
[AD-A143973] 23 p3697 N84-33426

ELECTROMAGNETIC SURFACE WAVES
The interaction of electromagnetic radiation with solid materials
[AD-A130727] 01 p0066 N84-10429
Theoretical analysis of nonreciprocal electromagnetic surface wave devices
[AD-A131630] 02 p0209 N84-11368
Manifestation of the Fermi resonance in surface polariton spectra
[NASA-TM-77386] 14 p2222 N84-24330
Interactions between volume and surface EM waves in layered structures 19 p3047 N84-29331

ELECTROMAGNETIC WAVE FILTERS
NT BANDPASS FILTERS
NT BIREFRINGENT FILTERS
NT CRYSTAL FILTERS
NT DIGITAL FILTERS
NT ELECTRIC FILTERS
NT FIR FILTERS
NT INFRARED FILTERS
NT MATCHED FILTERS
NT MICROWAVE FILTERS
NT OPTICAL FILTERS
NT RADAR FILTERS
NT RADIO FILTERS
NT TRACKING FILTERS
NT WAVEGUIDE FILTERS
Effect of RF filtering on the performance of uncoded PCM/PM telemetry channels 16 p2480 N84-25901

ELECTROMAGNETIC WAVE TRANSMISSION
NT HALOS
NT IONOSPHERIC PROPAGATION
NT LIGHT SCATTERING
NT LIGHT TRANSMISSION
NT MICROWAVE ATTENUATION
NT MICROWAVE TRANSMISSION
NT MULTIPATH TRANSMISSION
NT RADAR TRANSMISSION
NT RADIO TRANSMISSION
NT SCATTER PROPAGATION
NT SHORT WAVE RADIO TRANSMISSION
NT SINGLE SIDEBAND TRANSMISSION
NT SPREAD SPECTRUM TRANSMISSION
NT TELEVISION TRANSMISSION
NT TRANSHORIZON RADIO PROPAGATION
Propagation and absorption of electromagnetic waves in fully relativistic plasmas
[DE83-017246] 03 p0450 N84-12959
Further investigations of the multiple knife-edge attenuation function
[PB83-245043] 04 p0523 N84-13442
Optical properties of the marine aerosol as predicted by a BASIC version of the Navy aerosol model
[AD-A132411] 04 p0804 N84-13986
Transmission lines for pulsed power applications
[DE84-002754] 05 p0676 N84-14446
Coherent electromagnetic wave propagation and scattering in random media
[AD-A133601] 06 p0825 N84-15381
Reflection and transmission of electromagnetic waves at a rough interface between two different media
[PB83-217588] 06 p0826 N84-15389
The IF-77 electromagnetic wave propagation model
[AD-A134504] 07 p0993 N84-16441
Propagation of ELF (extremely low frequencies) waves in the spherical Earth-ionosphere waveguide with transverse and longitudinal variation of properties
[AD-A135890] 09 p1300 N84-18502
Emission and transmission of atmospheric radiation and their influence on the performance of electro-optics systems measurement, analysis and modelling
[AD-A137359] 10 p1479 N84-19665
Oscillatory length dependent conductivity in periodic and almost periodic crystals
[DE84-004364] 11 p1745 N84-21384
Extension of finitely conducting Earth-Image-Theory results to any range
[AD-A139144] 14 p2139 N84-23827
Electron energy deposition in the middle atmosphere
[AD-A139122] 14 p2175 N84-24032
AGARD bulletin: Meetings, publications, membership
[AGARD-BUL-84/1] 14 p2252 N84-24527
Electromagnetic wave scattering by partially-buried metallic and dielectric objects
[AD-A140109] 15 p2322 N84-24939
Techniques for the analysis of spectral and orbital congestion in space systems
[AD-A140841] 17 p2614 N84-26734

Optimum time of day and night for measuring distances in turbulent atmosphere with optical range finders (case of high rise of laser beam above ground surfaces)
17 p2638 N84-26875
Nonlinear phenomena in electromagnetic and acoustic wave propagation
[AD-A140716] 17 p2653 N84-26969
Aerosol chamber of Atmospheric Optics Institute
18 p2864 N84-28183
Applications of Riemann-Hilbert problem techniques to electromagnetic coupling through apertures
[DE84-009532] 19 p3009 N84-29073
Interactions between volume and surface EM waves in layered structures 19 p3047 N84-29331
Homing head imperfections altering missile guidance
21 p3351 N84-31256
Reflection of electromagnetic waves from inhomogeneous media 22 p3566 N84-32586
A probabilistic model for predicting the duration of levels of electromagnetic transmission in falling snow: Environmental research papers
[AD-A143318] 22 p3577 N84-32655
Electromagnetic wave propagation in magnetoionic media
[INPE-3189-PRE/553] 23 p3730 N84-33640

ELECTROMAGNETIC WAVES
U ELECTROMAGNETIC RADIATION

ELECTROMAGNETICS
U ELECTROMAGNETISM

ELECTROMAGNETISM
NT MAGNETOSTATICS
Measures for the improvement of the continuous casting procedure (electromagnetic stirring)
[BMFT-FB-T-83-138] 02 p0207 N84-11348
Numerical electromagnetics code. Method of moments. User's guide supplement for NEC-3 for modeling buried wires
[DE84-002195] 06 p0825 N84-15382
Airborne lightning characterization
[AD-A130627] 06 p0881 N84-15733
A feasibility study of electromagnetic DE-spin system for Earth orbiting satellites 06 p0930 N84-16040
Maximum entropy methods in electromagnetic/geophysical/ultrasonic imaging
[DE84-002793] 07 p0994 N84-16445
Basic research in electronics (JSEP) Joint Services Electronics Program
[AD-A136290] 09 p1306 N84-18538
Joint services electronics program
[AD-A136058] 09 p1309 N84-18559
Effect of electromagnetic stirring on weld pools
[AD-A136718] 10 p1460 N84-19532
Containerless high temperature property measurements by atomic fluorescence
[NASA-CR-171038] 15 p2412 N84-25481
Joint services electronics program
[AD-A140434] 16 p2485 N84-25936
New types of transient processes observed in electromagnetic sounding 18 p2860 N84-28164
Regulation of mechanical characteristic of iron-powder electromagnetic brake 21 p3379 N84-31444
Portable electromagnetic flaw detector for metal products 23 p3706 N84-33493
Transient response from thin dyke in the Earth for loop excitation 23 p3776 N84-33941
Approximate methods for obtaining the complex natural electromagnetic oscillations of an object
[AD-A143913] 23 p3821 N84-34229
Two-dimensional signal processing and storage and theory and applications of electromagnetic measurements
[AD-A144266] 24 p3898 N84-34680
Bioelectromagnetics research in West Germany: An assessment
[AD-A144297] 24 p3935 N84-34911
Bioelectromagnetics research in France: An assessment
[AD-A144305] 24 p3936 N84-34912
Minigrant program. A differential geometric approach to electromagnetic lens design
[AD-A144239] 24 p3950 N84-35013
Alternative labelling schemes in electromagnetic topology
[AD-A144300] 24 p3954 N84-35037

ELECTROMAGNETS
NT SUPERCONDUCTING MAGNETS
Electromagnetic levitation coil fabrication technique for MSFC containerless processing facilities
[NASA-TM-82565] 09 p1306 N84-18535
Dual aperture dipole magnet with second harmonic component
[DE84-011305] 20 p3285 N84-30856

ELECTROMECHANICAL DEVICES
Scientific-Technical Conference on Acyclic Electric Machines
[AD-A131880] 03 p0366 N84-12381
Horizons of technology (selected articles)
[AD-A131897] 03 p0476 N84-13135
Broadband electromagnetic interference testing for vehicles and electrical subsystems - noncommunications
[AD-A134087] 05 p0666 N84-14381
Design and verification of electromagnetic compatibility in airborne weapons systems 06 p0773 N84-15066
Developed electrotechnology during a cosmic frost
[AD-A135575] 09 p1308 N84-18552
Influence of transient regimes of the motor on elastic mechanical vibrations in an electric drive
[BLL-M-35438-(5828.4)] 12 p1825 N84-21896
Satellite Services Catalog: Tools and equipment
[NASA-TM-85627] 13 p1937 N84-22597
Two-dimensional scanner apparatus — flaw detector in small flat plates
[NASA-CASE-MFS-25687-1] 13 p1992 N84-22928
Unipolar electric machines with liquid-metal current pickup
[AD-A139778] 16 p2484 N84-25932
Causes and prevention of structural materials failures in naval environments
[AD-A141560] 19 p2994 N84-28972

ELECTROMECHANICS
The 400 Hz generators evolution, effects on installation arrangements 03 p0336 N84-12186
Optimization of parameters of electromechanical systems with mechanical balancing
[BLL-M-35442] 09 p1324 N84-18651
An experimental hybrid model for a bilinear hysteretic system 10 p1514 N84-19910
Influence of transient regimes of the motor on elastic mechanical vibrations in an electric drive
[BLL-M-35438-(5828.4)] 12 p1825 N84-21896
Inherent problems in designing two-failure tolerant electromechanical actuators 15 p2348 N84-25088
The NESDIS-SEL Lear aircraft instruments and data recording system
[NOAA-TR-NESDIS-9] 17 p2607 N84-26698
Diagnosing a PDS microdensitometer
18 p2839 N84-28021
Analysis, testing, and evaluation of faulted and unfaulted Wye, Delta, and open Delta connected electromechanical actuators
[NASA-CR-171808] 22 p3585 N84-32707
Electromechanical hypothesis of bone demineralization in weightlessness 23 p3808 N84-34149

ELECTROMETERS
An oscillating capacity electrometer for space applications
[IFSI-84 6] 18 p2807 N84-27823

ELECTROMIGRATION
Fine line electromigration. The effect of crossed thermal gradients
[AD-A138854] 13 p2046 N84-23279

ELECTROMOTIVE FORCES
NT PONDEROMOTIVE FORCES
High temperature oxide electrolytes for the splitting of water--the ROC process
[AD-A140881] 17 p2620 N84-26765
Three-phase power factor controller with induced EMF sensing
[NASA-CASE-MFS-25852-1] 23 p3734 N84-33661

ELECTROMYOGRAMS
U ELECTROMYOGRAPHY

ELECTROMYOGRAPHS
U ELECTROMYOGRAPHY

ELECTROMYOGRAPHY
Electromyographic analysis of the peroneous longus during bicycle ergometry across work load and pedal type
[AD-A132550] 05 p0712 N84-14666

ELECTRON ACCELERATION
Beam plasma discharge and suprathermal electron tails 05 p0637 N84-14192
Dynamically accelerated superthermal electrons in microwave plasma interaction
[IPPJ-648] 10 p1580 N84-20354
Acceleration of runaway electrons and Joule heating in solar flares
[NASA-TM-86112] 15 p2428 N84-25583
Computer simulation of the Lasertron
[DE84-012242] 20 p3194 N84-30287
Plasma simulation studies of electron acceleration for beat wave and single frequency-laser heating schemes
[DE84-009988] 20 p3305 N84-30992

ELECTRON ACCELERATORS
NT BETATRONS
IBEX: Annular beam propagation experiment
[DE84-000456] 04 p0599 N84-13954
Conceptual design of a 300-GeV accelerator based on the inverse free-electron laser mechanism
[DE84-001471] 04 p0601 N84-13969
Plasma heating generated by a rocket-borne electron accelerator 05 p0637 N84-14189
Space experiments with particle accelerators (SEPAC). Science problems of SEPAC/Spacelab 1 mission
05 p0641 N84-14221
The Mark 3 linac as a high current source for FEL (Free Electron Lasers) experiments
[AD-A136312] 09 p1320 N84-18625
Studies of Electron-Beam-Induced decomposition of benzene
[AD-A137241] 10 p1454 N84-19496
Review of free electron laser theory and experiments
[DE84-007232] 13 p1996 N84-22954
High current induction accelerators
[AD-A142303] 19 p3102 N84-29703
Exploration of phase stability in the surfatron accelerator
[DE84-011416] 20 p3193 N84-30280
Elementary principles of linear accelerators
[DE84-007911] 20 p3294 N84-30913
Beam experiment programs in the USA
[DE84-010804] 21 p3493 N84-32138
LINAC facility at Armed Forces Radiobiology Research Institute
[AD-A143970] 23 p3822 N84-34239

ELECTRON ATTACHMENT
NT NUCLEOPHILES
Electron-molecule interactions in gases and liquids: The electron-attachment process in gases and nonpolar liquids
[DE83-017205] 03 p0436 N84-12863
Resonance-resonance coupling in dissociative electron attachment
[DE84-001767] 04 p0602 N84-13972
Electron-drift velocity and ionization and attachment coefficients in gases/mixtures for diffuse-discharge opening switches
[DE83-017206] 04 p0609 N84-14017

ELECTRON AVALANCHE
Study of avalanche discharge lasers
[AD-A141203] 18 p2846 N84-28074

ELECTRON BEAM WELDING
Bending fatigue of electron-beam-welded foils. Application to a hydrodynamic air bearing in the Chrysler/DOE upgraded automotive gas tubine engine
[NASA-TM-83539] 07 p1016 N84-16589
Introduction of productive welding and surfacing technological processes to production of nuclear powerplant equipment 12 p1787 N84-21655
Investigation of in position end to end welding of an aluminum alloy by electron beam
[CETIM-12-Y-442] 21 p3414 N84-31652
Features of laser welding of AMg6 alloy
24 p3870 N84-34525
Optimization of initial microstructures of OT4-1 alloy elements joined by diffusion welding
24 p3875 N84-34558

ELECTRON BEAMS
NT RELATIVISTIC ELECTRON BEAMS
Diode dynamics, beam generation and transport and plasma erosion opening switch development
[AD-A129821] 01 p0070 N84-10457
Design and operation of a collective millimeter-wave free-electron laser
[AD-A131628] 01 p0087 N84-10568
E-beam pulsewidth scaling for a large KrF laser
[DE83-013632] 01 p0087 N84-10571
Pulse power for the RAPIER B amplifier KrF laser system
[DE83-012951] 01 p0088 N84-10573
Aerodynamics of E-beam sustained discharges in flow
[AD-A130100] 01 p0141 N84-10926
Theoretical research on charged particle beam and other plasma systems
[AD-A130381] 01 p0149 N84-10976
The 60-GHz gyrotron development program
[DE83-012922] 02 p0214 N84-11402
Experimental and theoretical studies of electron beam lithography for the fabrication of semiconductor circuits with submicron dimensions: Water distortion, comparison of results
[BMFT-FB-T-83-088] 02 p0216 N84-11414
Further development in electron beam lithography
[BMFT-FB-T-83-099] 02 p0216 N84-11415
On the CO2 laser generated channel conductivity and electron beam ionization of ammonia
[AD-A131591] 02 p0225 N84-11478
Latest on polarization in electron storage rings
[DE83-012764] 02 p0290 N84-11902
Blowup of a weak beam due to interaction with a strong beam in an electron storage ring
[DE83-016089] 02 p0291 N84-11908
Low energy electron magnetometer using a monoenergetic electron beam
[NASA-CASE-LAR-12706-1] 03 p0375 N84-12444
Electron-beam diagnostics for the Los Alamos free-electron oscillator experiment
[DE83-017230] 03 p0381 N84-12481

The Los Alamos free-electron-laser oscillator experiment: Plans and present status
[DE83-017290] 03 p0382 N84-12485
Free-electron-laser research
[DE83-016957] 03 p0382 N84-12489
Development of an ultrasonic testing procedure for electron beam welded parts for aerospace applications
[BMFT-FB-W-72-011] 03 p0386 N84-12515
Electron beam trajectory in a photometer field of view
[AD-A131949] 03 p0432 N84-12831
A model for chorus associated electrostatic bursts
[NASA-CR-174489] 03 p0432 N84-12832
Nonlinear force on an unpolarized relativistic test particle to second order in the total field in a nonequilibrium beam-plasma system
[AD-A131631] 03 p0444 N84-12919
La Recherche Aerospatiale, Bimonthly Bulletin, no. 1982-5, 210/September-October 1982
[ESA-TT-785] 04 p0477 N84-13142
Wave and particle observations associated with the beam plasma discharge in a space simulation chamber
04 p0489 N84-13210
Low-inductance, dual-feed diode development
[DE84-000117] 04 p0527 N84-13465
Beam dynamics in the Advanced Test Accelerator (ATA)
[DE84-001421] 04 p0598 N84-13947
Space-time evolution of the nonlinear 2-stream instability
[DE84-001336] 04 p0599 N84-13950
IBEX: Annular beam propagation experiment
[DE84-000456] 04 p0599 N84-13954
Scientific program and abstracts
[DE83-017620] 04 p0601 N84-13967
Simulations of the effects of mobile ions on the relativistic beam-plasma instability for intense beams
[DE84-000369] 04 p0607 N84-14003
Fast magnetospheric echoes of energetic electron beams
05 p0636 N84-14187
Ionospheric modification by electron beams. Results from electron accelerator experiments on rockets in Norway
05 p0637 N84-14188
Plasma heating generated by a rocket-borne electron accelerator
05 p0637 N84-14189
Highlights of the electron beam experiments in space in Japan
05 p0637 N84-14191
Beam plasma discharge and suprathermal electron tails
05 p0637 N84-14192
A second kind of Beam-Plasma Discharge (BPD): Rocket and laboratory results
05 p0637 N84-14193
Plasma processes in the region of electron beam injection from a high altitude payload
05 p0637 N84-14194
Electron beam experiments aboard the Space Shuttle
05 p0638 N84-14195
Optical measurements of a large-scale laboratory Beam Plasma Discharge (BPD)
05 p0638 N84-14196
Initial experimental results from a laboratory size beam plasma discharge device
05 p0638 N84-14198
Suprathermal electron tail distributions in a space-simulation beam plasma discharge
05 p0638 N84-14199
Modeling of beam-plasma discharge in the laboratory
05 p0638 N84-14200
The experiment Phenomena Induced by Charged Particle Beams (PICPAB) on board Spacelab 1
05 p0641 N84-14220
E-beam written computer generated holograms
[AD-A133772] 05 p0684 N84-14499
High gain free electron laser at ETA
[DE84-002001] 05 p0686 N84-14512
Research on intense electron beams and applications
[AD-A134068] 05 p0743 N84-14882
Stimulated Cerenkov radiation beam monitor
[AD-A132817] 05 p0744 N84-14889
The effect of field index fluctuations on the dynamics of a high current electron ring in a modified betatron accelerator
[AD-A133089] 05 p0745 N84-14891
Plasma beat-wave accelerator
[DE84-001601] 05 p0750 N84-14925
Laser and electron beam processing of semiconductors: CW beam-recrystallized polysilicon as a device-worthy material
[AD-A133759] 05 p0753 N84-14942
Laser and electron beam processing of semiconductors: CW beam processing of ion implanted silicon
[AD-A133758] 05 p0754 N84-14943
Duration of memory loss due to electron beam exposure
[AD-A132941] 06 p0886 N84-15760
A 650 mm long liquid hydrogen target for use in a high intensity electron beam
[DE84-002552] 06 p0916 N84-15955
An investigation of accelerating mechanisms in a plasma focus relevant to interrupting switches
[AD-A133462] 06 p0920 N84-15963
Rotational temperature measurements in free jet expansions of N2 using the electron beam fluorescence technique
07 p0984 N84-16376
Line-source E-beam crystallization of silicon-on-insulator films
[DE84-003218] 07 p0999 N84-16478
Whistler mode turbulence generated by electron beams in Earth's bow shock
[NASA-CR-173143] 07 p1034 N84-16707
Comparison of thermal, line-source electron beam and CW laser annealing for the fabrication of ErSi/sub 2 Schottky barrier on Si
[DE84-003105] 07 p1081 N84-17031
Virtual cathode oscillations
[AD-A135120] 08 p1228 N84-18027
External injection into a high current modified betatron accelerator
[AD-A134694] 08 p1229 N84-18030
Radiative collisional laser feasibility demonstration
[AD-A135793] 09 p1322 N84-18640
Storage ring design for X-ray lithography
[DE84-002859] 09 p1390 N84-19079
Sheath ionization model of beam emissions from large spacecrafts
[AD-A137181] 10 p1448 N84-19463
Studies of Electron-Beam-Induced decomposition of benzene
[AD-A137241] 10 p1454 N84-19496
Proposal for a free electron laser in the X-ray region
[DE84-004735] 10 p1501 N84-19808
Generation of intense coherent soft X-ray with electron microbunches induced and frozen by lasers
[DE84-005361] 10 p1501 N84-19811
Nonlinear dynamic polarization force on a relativistic test particle in a nonequilibrium beam-plasma system
[AD-A136768] 10 p1577 N84-20331
Radiation and particle emission from a 1.6 kJ plasma focus
10 p1581 N84-20362
Study of electron beam production by a plasma focus
10 p1582 N84-20367
Observation of nonlinear phenomena — in the plasma focus
10 p1584 N84-20385
Fluorescence and electron energy loss cross sections in mercuric bromide
[AD-A137153] 11 p1629 N84-20657
Theory of the two-frequency operating mode of traveling-wave tubes of the O type
[AD-A137616] 11 p1646 N84-20763
A beam current density monitor for intense electron beams
[AD-A137146] 11 p1660 N84-20832
Cerenkov radiation from bunched electron beams, revised
[AD-A137533] 11 p1729 N84-21280
Diffraction effects in Cerenkov radiation
[AD-A137540] 11 p1729 N84-21281
1 megawatt, 100 GHz gyrotron study
[DE84-006527] 12 p1814 N84-21823
A 650 mm long liquid hydrogen target for use in a high intensity electron beam
[DE84-007086] 12 p1902 N84-22389
Detection of bump-on-tail reduced electron velocity distributions at the electron foreshock boundary
[NASA-TM-86067] 12 p1922 N84-22518
Experience with development of sealed linear waveguide electron accelerators
13 p1969 N84-22780
Miniaturized pulsed CO2 laser with sealed electron source
13 p1969 N84-22782
60 GHz gyrotron development program
[DE84-006606] 13 p1987 N84-22899
Computer optimization of a linac injector trajectory
[DE84-005034] 15 p2408 N84-25456
On the form of the collective bremsstrahlung recoil force in a nonequilibrium relativistic beam-plasma system
[AD-A139895] 15 p2410 N84-25467
Floating potentials and the hot plasma generated by an electron-beam-emitting rocket in the ionosphere
[AD-P002107] 16 p2522 N84-26193
Investigation of short-pulse electron-beam propagation
[AD-A140383] 16 p2556 N84-26396
Development and application of low energy X-ray and electron physics
[AD-A140480] 16 p2556 N84-26397
Scattering properties of partly screened dielectric sphere
[REPT-218] 17 p2662 N84-26983
Whistler mode turbulence at Earth's bow shock: Generation via electron beams and ray path integrated amplification
17 p2726 N84-27349
Plasma processes caused by an electron beam injected from a high altitude rocket probe. Part 1: Neutralization processes
[IWF-8302] 17 p2728 N84-27363
Plasma processes caused by an electron beam injected from a high altitude rocket probe. Part 2: Studies of beam-plasma discharge
[IWF-8303] 17 p2728 N84-27364
A collective interaction klystron
[AD-A141275] 18 p2634 N84-27991
Collective ion acceleration by a reflexing electron beam: Model and scaling
[AD-A141241] 18 p2929 N84-28577
Beam plasma discharge in space and laboratory
[IFSI-84-5] 18 p2934 N84-28609
Synthesis and evaluation of improved electron-beam and X-ray lithographic resist polymers
[AD-A141674] 19 p2999 N84-29006
Study of dry resistant techniques for electron beam lithography
[BMFT-FB-T-84-037] 19 p3028 N84-29206
Study of e-beam propagation in the ionosphere and magnetosphere
[AD-A142206] 19 p3054 N84-29380
Cerenkov radiation generated by periodic electron bunches in a finite air path
[AD-A142063] 19 p3101 N84-29700
Diagnostics development for E-beam excited air channels: Optical studies of the PHERMEX electron beam
[AD-A142095] 19 p3101 N84-29701
High current induction accelerators
[AD-A142303] 19 p3102 N84-29703
Self-propagating high-temperature synthesis of ceramics in vacuum
[AD-A142506] 20 p3162 N84-30079
Analytic solution for the problem of gridded gap-electron flow interaction
[DE84-008975] 20 p3181 N84-30209
Free electron lasers and related topics
[DE84-011332] 20 p3193 N84-30277
Electron beam diagnostic for the Los Alamos free electron laser oscillator experiment
[DE84-011348] 20 p3193 N84-30278
The XUV/VUV free-electron laser oscillator
[DE84-011347] 20 p3193 N84-30279
Exploration of phase stability in the surfatron accelerator
[DE84-011416] 20 p3193 N84-30280
A numerical study of artificial electron aurora experiments
[ISAS-611] 20 p3240 N84-30568
Making electron beams for SLC linac
[DE84-012072] 20 p3293 N84-30907
Observed current enhancement with propagation of the ETA electron beam in air
[DE84-010558] 20 p3293 N84-30909
Electron motion in solenoidal magnetic fields using a first order symplectric integration algorithm
[DE84-011341] 20 p3293 N84-30910
Temperature rise calculations for the beam pipe in the SLC arcs
[DE84-011764] 20 p3295 N84-30924
Modeling the interaction of high power ion or electron beams with solid target materials
[DE84-009126] 20 p3296 N84-30931
Simulation of ultra-low emittance electron storage rings
[DE84-012050] 20 p3310 N84-31024
Transport properties and dielectric strengths of gas mixtures for use in diffuse discharge opening switches
[DE84-011444] 21 p3394 N84-31536
Nonlinear dynamics of resonance-type instability in high-density electron beam: Analytical solution
21 p3483 N84-32074
Plasma beam instability of bounded electron beam in weak magnetic field
21 p3488 N84-32105
Generation and application of finely focused low energy electron beams
21 p3492 N84-32129
Measurement of LINAC bunch parameters using the Cerenkov effect
[AD-A143128] 21 p3493 N84-32136
Beam experiment programs in the USA
[DE84-010804] 21 p3493 N84-32138
APC-2: An electron beam propagation code
[DE84-011532] 21 p3494 N84-32144
Acceleration of high charge density electron beams in the SLAC linac
[DE84-012415] 21 p3497 N84-32161
Nonthermal effects on the diagnostics of a collapsing gas shell Z-pinch
[DE84-009996] 21 p3502 N84-32199
Nonequilibrium segregation and phase instability in alloy films during elevated-temperature irradiation in a high-voltage electron microscope
[DE84-013423] 21 p3505 N84-32214
Radiation from intense electron beams associated with the Cherenkov mechanism
[AD-A143350] 22 p3577 N84-32657

Plasma switch development
[AD-A143233] 22 p3586 N84-32711
Experiments on interaction of keV particle beams with the ionosphere
[AD-A143277] 22 p3623 N84-32957
Particle environment — solar arrays and electric discharges
[NASA-CR-173688] 22 p3661 N84-33210
The theory of free electron lasers
[INPE-3158-TDL/170] 23 p3753 N84-33790
Development and fabrication of a solar cell junction processing system
[NASA-CR-174948] 23 p3788 N84-34024

ELECTRON BOMBARDMENT
Diamondlike flake composites
[NASA-CASE-LEW-13837-1] 13 p1953 N84-22695
Ground correlation investigation of thruster spacecraft interactions to be measured on the IAPS flight test
[NASA-TM-83598] 14 p2118 N84-23691
Performance capabilities of the 12-centimeter Xenon ion thruster
[NASA-TM-83674] 18 p2808 N84-27825
Ion sputter textured graphite electrode plates
[NASA-CASE-LEW-12919-2] 18 p2928 N84-28565

ELECTRON BUNCHING
Damping ring rf system for SIC
[DE83-011853] 01 p0143 N84-10938
High charge picosecond pulses with a double gap subharmonic buncher
[DE83-011743] 01 p0143 N84-10939
Electron-beam diagnostics for the Los Alamos free-electron oscillator experiment
[DE83-017230] 03 p0381 N84-12481
Monitoring of the Stanford Linac microbunches' position
[DE83-012712] 03 p0433 N84-12840
Longitudinal space-charge effects in bunched beams
[DE83-017305] 03 p0440 N84-12888
Grad-B drift transport of high current electron beams
[DE84-000115] 04 p0602 N84-13977
Fast asynchronous level 1 pre-trigger for electrons at L = 10/sup 33 cm-2 sec-1 06 p0913 N84-15933
Experimental investigation of the characteristics of an ultraviolet storage ring laser
[AD-A137751] 11 p1662 N84-20847
Cerenkov radiation from bunched electron beams, revised
[AD-A137533] 11 p1729 N84-21280
Diffraction effects in Cerenkov radiation
[AD-A137540] 11 p1729 N84-21281
Anomalous laser induced bunch lengthening on the ACO storage ring free electron laser
[AD-A138814] 13 p1995 N84-22949
A collective interaction klystron
[AD-A141275] 18 p2834 N84-27991
Cerenkov radiation generated by periodic electron bunches in a finite air path
[AD-A142063] 19 p3101 N84-29700
Computer simulation of the Lasertron
[DE84-012242] 20 p3194 N84-30267
Making electron beams for SLC linac
[DE84-012072] 20 p3293 N84-30907
Measurement of LINAC bunch parameters using the Cerenkov effect
[AD-A143128] 21 p3493 N84-32136
Using ions to probe the transverse size of a bunch
[DE84-012772] 21 p3494 N84-32141
Further effects of ions in the arcs
[DE84-011761] 21 p3495 N84-32149
Time development of Cerenkov radiation
[AD-A143225] 22 p3653 N84-33155

ELECTRON CAPTURE
The 100% alignment of hydrogen excited states in beam-foil spectroscopy
[DE83-017963] 03 p0436 N84-12859
Cross sections for charge transfers of highly ionized ions in hydrogen atoms
[IPPJ-AM-30] 03 p0443 N84-12912
Electron capture and loss cross sections for collisions between heavy ions and hydrogen molecules, revised
[IPPJ-AM-28] 03 p0444 N84-12914
Simultaneous electron capture and excitation in ion-atom collisions
[DE83-005799] 06 p0910 N84-15907
A comment on atomic processes relevant to alpha particle diagnostics 11 p1736 N84-21323
Charge exchange and related processes 11 p1736 N84-21327
Innovative detection, separation and sampling techniques for trace analysis by gas chromatography
[AD-A140974] 18 p2811 N84-27842
Correlated charge changing interactions and K X-ray emission in ion-atom collisions
[DE84-008645] 18 p2930 N84-28580
Differential charge transfer and continuum electron capture studies for ions in atomic hydrogen
[DE84-009675] 19 p3102 N84-29708
Electron capture cross sections in high energy He2+ + neutral Li collisions
[IPPJ-679] 21 p3500 N84-32182

ELECTRON COLLISIONS
U ELECTRON SCATTERING

ELECTRON COMPOUNDS
U INTERMETALLICS

ELECTRON COUNTERS
Feasibility studies of Conversion Electron Moessbauer Spectroscopy (CEMS) of iron-doped InP
[AD-A142463] 20 p3309 N84-31014

ELECTRON CYCLOTRON HEATING
Ray-tracing analysis of electron-cyclotron-resonance heating in straight stellarators
[DE83-013854] 01 p0149 N84-10982
The 2-step ECRH current-drive study
[DE83-012745] 01 p0150 N84-10983
Theoretical studies of fusion physics. Volume 1: Summary
[DE83-010378] 03 p0445 N84-12924
Status of tandem-mirror confinement
[DE83-017369] 03 p0448 N84-12948
Electron-cyclotron-heating experiments in Tokamaks and stellarators
[DE83-017210] 03 p0450 N84-12958
Electron-cyclotron maser and whistler instabilities in a relativistic electron plasma with loss-cone distribution
[DE84-001607] 04 p0541 N84-13561
Preionization and start-up in the ISX-B Tokamak using electron cyclotron heating at 28 GHz
[DE84-002261] 06 p0920 N84-15984
Design and fabrication of circular and rectangular components for electron-cyclotron-resonant heating of tandem mirror experiment-upgrade
[DE84-003244] 07 p1078 N84-17010
Polarizing holographic reflector for Electron Cyclotron Resonant Heating (ECRH) on the Tandem Mirror Experiment Upgrade (TMX-U)
[DE84-003740] 08 p1162 N84-17568
Circular waveguide systems for electron-cyclotron-resonant heating of the tandem mirror experiment-upgrade
[DE84-003739] 08 p1233 N84-18062
ICRF waveguide couplers — tokamak devices
[DE84-004042] 09 p1392 N84-19092
Analysis of the output mode from 60 GHz, 200 kW pulsed and CW gyrotrons
[DE84-004586] 10 p1497 N84-19785
First 200 kW CW operation of a GHz gyrotron
[DE84-004573] 10 p1498 N84-19794
Transport studies of ECH heated bumpy torus plasmas
[IPPJ-652] 10 p1580 N84-20353
Inductive current startup in large Tokamaks with expanding minor radius and RF assist
[DE84-006683] 12 p1911 N84-22450
Electron Cyclotron Emission (ECE) measurements on the TORTUR 3 Tokamak
[REPT-83-148] 13 p2045 N84-23274
Activities report of the Institut fuer Plasmaforschung 13 p2046 N84-23276
Development program for a 200kW, CW gyrotron
[DE84-007945] 14 p2149 N84-23874
Fundamental mode rectangular waveguide system for Electron-Cyclotron Resonant Heating (ECRH) for tandem mirror experiment-upgrade (TMX-U)
[DE84-009085] 15 p2322 N84-24940
Studies of some plasma instabilities in space physics 17 p2766 N84-27562
Transmission system development for electron cyclotron heating experiments of a Tokamak plasma
[AD-A140688] 17 p2766 N84-27566
Microwave measurement test results of circular waveguide components for Electron Cyclotron Resonant Heating (ECRH) of the Tandem Mirror Experiment-Upgrade (TMX-U)
[DE84-009538] 19 p3108 N84-29746
Density variation due to wave heating in Tokamak plasmas
[DE84-009402] 20 p3305 N84-30993
Non-geometrical optics investigation of mode conversion in weakly relativistic inhomogeneous plasmas
[DE84-012396] 20 p3306 N84-31002
Ray tracing study of electron cyclotron heating in the TBR 2 Tokamak
[INPE-3192-PRE/556] 21 p3500 N84-32181
Focusing twist reflector for electron-cyclotron resonance heating in the Tandem Mirror Experiment-upgrade
[DE84-012954] 22 p3578 N84-32663
Nonlinear effects in electron cyclotron resonance heating of plasmas
[INPE-3233-PRE/583] 24 p3964 N84-35103

ELECTRON DENSITY (CONCENTRATION)
NT CARRIER DENSITY (SOLID STATE)
NT ELECTRON DENSITY PROFILES
NT IONOSPHERIC ELECTRON DENSITY
NT MAGNETOSPHERIC ELECTRON DENSITY
The anisotropy of high latitude nighttime F-region irregularities
[AD-A131215] 01 p0106 N84-10688
Implications of heavy-ion-induced satellite X-ray emission. 1: Introduction
[DE83-015682] 03 p0435 N84-12851
Design of doubly focusing, tunable (5 - 30 keV), wide-bandpass optics made from layered synthetic microstructures
[DE83-015492] 03 p0441 N84-12897
Observations of soft X-ray fluctuations with an imaging array on TEXT
[DE83-018118] 03 p0447 N84-12938
Evidence for a hot electron flux limit in laser-produced plasma experiments
[DE84-001365] 04 p0540 N84-13555
Thomson-scattering measurements of electron temperature and density in a plasma channel created by a relativistic electron beam
[DE84-000356] 04 p0597 N84-13940
A study of plasmaspheric density distributions for diffusive equilibrium conditions
[AD-A132643] 05 p0703 N84-14615
Preionization and start-up in the ISX-B Tokamak using electron cyclotron heating at 28 GHz
[DE84-002261] 06 p0920 N84-15984
The interstellar medium along the line of sight toward X Per 06 p0939 N84-16101
Extensions of the theory of the electron-phonon interaction in metals: A collection
[AD-A134140] 07 p1079 N84-17018
Muon spin rotation in solids
[NASA-CR-172789] 08 p1234 N84-18067
Unified theory of the power spectrum of long wavelength ionospheric electron density irregularities
[AD-A137356] 10 p1537 N84-20068
Plasma sheet behavior during substorms
[DE84-003833] 10 p1537 N84-20070
Implications of the 1100 UT 22 March, 1979 CDAW 6 substorm event for the role of magnetic reconnection in the geomagnetic tail
[DE84-004335] 10 p1537 N84-20071
Particle and field signatures of substorms in the near magnetotail
[DE84-003777] 11 p1683 N84-20984
The electron density and temperature in the photoionized background gas (N2) surrounding a laser produced plasma
[AD-A138651] 13 p2044 N84-23266
Bistable operation of two semiconductor lasers in an external cavity: Rate-equation analysis 14 p2233 N84-24400
Magnetic impurities in superconductors
[DE84-007871] 14 p2243 N84-24467
Heavy ion beam probe for the study of plasma confinement in Nagoya bumpy torus
[IPPJ-669] 15 p2409 N84-25462
Role of excitation frequency in discharges created by surface waves
[LP-205] 16 p2558 N84-26411
The 2-D impurity states associated with inversion layers
[INPE-3081-PRE/493] 16 p2559 N84-26417
Determination of nebular temperature and density from radio recombination lines 16 p2578 N84-26541
Analysis of Voyager observations of ion and electron phase space densities in the magnetospheres of Jupiter and Saturn 16 p2580 N84-26548
Overview of ultraviolet remote sensing of the ionosphere
[AD-A141533] 19 p3041 N84-29294
Study of stimulated Brillouin and Raman scattering
[DE84-011260] 20 p3194 N84-30286
Nonlocal heat transport by non-Maxwellian electrons
[DE84-012391] 20 p3306 N84-31000
Alternating acoustoelectric current generated by interaction of two waves in acoustic microwaveguide 21 p3380 N84-31449
Nighttime enhancements in the TEC and magnetic storm response of the tropical F-region over Brazil
[INPE-3038-PRE/469] 21 p3442 N84-31839
Production of dense plasma column in strong magnetic fields and its diagnosis by laser methods 21 p3488 N84-32104
Spatial electron density and electric field strength measurements in microwave cavity experiments
[NASA-CR-173907] 22 p3582 N84-32682
The ionization structure of planetary nebulae V NGC 3242
[NASA-CR-173914] 22 p3679 N84-33322

Studies of the microscale density fluctuations in the solar wind using interplanetary scintillations
22 p3679 N84-33324
A further study on the spatial correlation of the total electron content at pairs of subionospheric points located at the Crest Zone of the Equatorial Anomaly
24 p3956 N84-35046
Analytic solution of the Spencer-Lewis angular-spatial moments equations
[AD-A144609] 24 p3962 N84-35089
Plasma electron analysis: Voyager plasma science experiment
[NASA-TM-85037] 24 p3989 N84-35243

ELECTRON DENSITY PROFILES
Study on the applicability of the international ionospheric model IRI 79 for obtaining electron density profiles
[INPE-2817-PRE/372] 02 p0247 N84-11619
Saturn's ionosphere: Inferred electron densities
[NASA-TM-85121] 07 p1092 N84-17102
Anomalous behavior of ISEE-1 detected by the electron density experiment 08 p1116 N84-17259
Automatic real time ionogram scaler with true height analysis - artist
[AD-A135174] 08 p1187 N84-17732
Prediction of total electron content using the International Reference Ionosphere
[AD-A137136] 10 p1536 N84-20066
Radiation and particle emission from a 1.6 kJ plasma focus 10 p1581 N84-20362
Auroral kilometric radiation: Wave modes, harmonic and source region electron density structures
[NASA-TM-86101] 15 p2367 N84-25203
Comparison between density profiles obtained at Cachoeira Paulista, Brazil, and deduced from IRI-79 model
[INPE-3136-PRE/527] 21 p3443 N84-31843
High density Z pinch as a small low-energy fusion device
[DE84-009992] 21 p3502 N84-32198
Wet model of Saturn's ionosphere: Water from the rings
[NASA-TM-86144] 24 p3992 N84-35262

ELECTRON DETECTORS
U ELECTRON COUNTERS

ELECTRON DIFFRACTION
Lattice-parameter measurement in retained austenite by CBED
[DE83-013296] 02 p0195 N84-11267
Application of surface-physics techniques to the study of electrochemical systems
[DE84-000957] 04 p0494 N84-13245
Direct determination of surface structures from photoelectron diffraction
[DE84-002572] 05 p0663 N84-14360
Diffraction techniques
[AD-A133254] 06 p0914 N84-15944
Differences between positrons and electrons in elastic and inelastic processes at surfaces
[DE84-001208] 06 p0916 N84-15953
Diffraction effects in Cerenkov radiation
[AD-A137540] 11 p1729 N84-21281
Detection of expansion at large angle grain boundaries using electron diffraction
[DE84-007889] 15 p2414 N84-25496
Surface chemistry of NiO (100)
[AD-A140233] 16 p2463 N84-25785
Crystalline effects in Auger electron spectroscopy
[AERE-R-11051] 18 p2942 N84-28658
Diamond surface: Atomic and electronic structure
[DE84-013518] 22 p3665 N84-33234

ELECTRON DIFFUSION
On the mechanical and thermoelectric behavior of composition modulated foils 11 p1666 N84-20870
Bounce resonance heating and radial transport of electrons in magnetic mirrors
[IPPJ-654] 11 p1734 N84-21309
Nonlinear trapped electron response for drift wave turbulence in Tokamaks
[DE84-005385] 11 p1737 N84-21335
Impact ionization in semiconductors by microwave field in the presence of an arbitrarily oriented constant magnetic field 18 p2825 N84-27932
Analytic solution of the Spencer-Lewis angular-spatial moments equations
[AD-A144609] 24 p3962 N84-35089

ELECTRON DISTRIBUTION
NT ELECTRON DENSITY PROFILES
Role of thermal conduction in the acceleration of the solar wind 03 p0467 N84-13079
Suprathermal electron tail distributions in a space-simulation beam plasma discharge
05 p0638 N84-14199
Energetic electrons in impulsive solar flares
[NASA-TM-86102] 14 p2251 N84-24519
Extragalactic radio sources
[NASA-CR-173606] 16 p2582 N84-26557
Field-aligned electron density irregularities near 500 km. Equator to polar cap topside sounder Z mode observations
[NASA-TM-86091] 18 p2879 N84-28277
Electron velocity distributions near collisionless shocks
[DE84-011352] 20 p3185 N84-30235
Nonlocal heat transport by non-Maxwellian electrons
[DE84-012391] 20 p3306 N84-31000
A rocket-borne Langmuir probe for in-situ measurement of ionospheric plasma
[INPE-3206-PRE/564] 21 p3349 N84-31244
Photon-photon absorption and the uniqueness of the spectra of active galactic nuclei
[NASA-TM-86117] 21 p3526 N84-32338
Cyclotron resonant scattering of energetic electrons by electromagnetic waves in the magnetosphere
22 p3621 N84-32946
Path integrated growth of auroral kilometric radiation
[NASA-CR-173995] 24 p3919 N84-34812
A further study on the spatial correlation of the total electron content at pairs of subionospheric points located at the Crest Zone of the Equatorial Anomaly
24 p3956 N84-35046
Analytic solution of the Spencer-Lewis angular-spatial moments equations
[AD-A144609] 24 p3962 N84-35089

ELECTRON EMISSION
NT FIELD EMISSION
NT PHOTOELECTRIC EMISSION
NT SECONDARY EMISSION
Measurements of the emittance and current density profile of the beam produced by the ATA injector
[DE83-016522] 03 p0434 N84-12848
An experimental investigation of electric flashover across solid insulators in vacuum
[NASA-CR-175379] 08 p1149 N84-17478
Beam impingement angle effects on secondary electron emission characteristics of textured pyrolytic graphite
[NASA-TP-2285] 09 p1286 N84-18400
Leakage currents in degraded multi-layer ceramic capacitors
[AD-A140157] 17 p2662 N84-26985
Electron emission and ion desorption spectroscopy of clean and oxidized Ti(0001)
[AD-A141319] 18 p2930 N84-28579
Electron emitting filaments for electron discharge devices
[DE84-011098] 20 p3180 N84-30201
Fracto-emission from graphite/epoxy composites
[NASA-CR-173845] 21 p3357 N84-31291
Second harmonic electron cyclotron emission studies of Tokapole-2 plasmas
[DE84-013103] 21 p3502 N84-32193
Fracto-emission from polymers
[AD-A144149] 24 p3888 N84-34622

ELECTRON ENERGY
NT ELECTRON STATES
Different sensitivity of s- and d-electron energy levels to a change in lattice parameters in transition metals
[BLL-M-35116-(5828.4)] 01 p0151 N84-10996
Low energy electron magnetometer using a monoenergetic electron beam
[NASA-CASE-LAR-12706-1] 03 p0375 N84-12444
Initial assessment of the MHD stability of TMX-U
[DE83-016521] 03 p0404 N84-12646
Theoretical studies of fusion physics. Volume 1: Summary
[DE83-010378] 03 p0445 N84-12924
Theoretical studies of fusion physics. Volume 2: Appendices
[DE83-010371] 03 p0445 N84-12925
Tokamak fusion reactors with less than full tritium breeding
[DE83-016711] 03 p0446 N84-12936
Observations of soft X-ray fluctuations with an imaging array on TEXT
[DE83-018118] 03 p0447 N84-12938
Drift wave studies in a linear multiple mirror
[DE83-016881] 03 p0449 N84-12951
Thermal barriers: Their purpose and functioning
[DE83-017365] 03 p0449 N84-12954
Electron-energy-loss spectral library and its application to materials science
[DE84-000588] 04 p0494 N84-13241
Thomson-scattering measurements of electron temperature and density in a plasma channel created by a relativistic electron beam
[DE84-000356] 04 p0597 N84-13940
Limiting energy spread at high laser intensities using phase space displacement
[AD-A133322] 06 p0850 N84-15542
Thermal electron heating rate: A derivation
[NASA-TM-85124] 06 p0914 N84-15941
Extraction of volume produced H(-) or D(-) ions from a sheet plasma I
[IPPJ-845] 06 p0919 N84-15974
Hollow cathode apparatus
[NASA-CASE-NPO-15560-1] 07 p1076 N84-16993
Observations of the GEOS-2 equilibrium potential and its relation to the ambient electron energy distribution
08 p1116 N84-17256
The concepts of critical temperature and energy cutoff of ambient electrons in high voltage charging of spacecraft 08 p1119 N84-17275
Fluorescence and electron energy loss cross sections in mercuric bromide
[AD-A137153] 11 p1629 N84-20857
Particle and field signatures of substorms in the near magnetotail
[DE84-003777] 11 p1683 N84-20984
Detection of bump-on-tail reduced electron velocity distributions at the electron foreshock boundary
[NASA-TM-86067] 12 p1922 N84-22518
Cluster calculation of electronic structure of the diamond (111) surface using the XAlpha-scattered wave method
[AD-A140486] 16 p2560 N84-26426
Determination of nebular temperature and density from radio recombination lines 16 p2578 N84-26541
Soft X-ray electron temperature measurements on TORTUR
[REPT-84-151] 17 p2766 N84-27568
Ion waves generated by streaming particles
[KGI-PREPRINT-065] 18 p2935 N84-28612
Investigation of laminar shocks
[DE84-010074] 20 p3242 N84-30582
A rocket-borne Langmuir probe for in-situ measurement of ionospheric plasma
[INPE-3206-PRE/564] 21 p3349 N84-31244
Ion-molecule reactions and plasma parameters of positive column in oxygen glow discharge
21 p3476 N84-32036
Second harmonic electron cyclotron emission studies of Tokapole-2 plasmas
[DE84-013103] 21 p3502 N84-32193
Thermal instabilities in the edge region of reversed-field pinches
[DE84-013861] 22 p3659 N84-33196
Relativistic calculations and measurements of energies, Auger rates, and lifetimes
[AD-A143423] 22 p3663 N84-33220
The ionization structure of planetary nebulae V NGC 3242
[NASA-CR-173914] 22 p3679 N84-33322
Electronic excitation in molecular collisions: Structural, dynamic and kinetic considerations
[AD-A143956] 23 p3822 N84-34238
Compton scattering of photons from electrons in thermal (Maxwellian) motion: Electron heating
[DE84-013860] 23 p3823 N84-34241

ELECTRON FLUX
U ELECTRONS
U FLUX (RATE)

ELECTRON FLUX DENSITY
Theoretical studies of X-ray emission from supernova remnants and other non-equilibrium astrophysical plasmas
[NASA-CR-175394] 10 p1597 N84-20488
Potential barriers and multiple roots in spacecraft charging
[AD-P002117] 16 p2524 N84-26203

ELECTRON GAS
Studies on sub-micron devices with emphasis on MOS systems
[DE84-010029] 15 p2415 N84-25499
Fractional quantization of the Hall effect
[DE84-008894] 20 p3310 N84-31023
Investigation of the MBE growth of InSb and novel quantum well structures
[AD-A144151] 24 p3967 N84-35117

ELECTRON GUNS
Measurements of the emittance and current density profile of the beam produced by the ATA injector
[DE83-016522] 03 p0434 N84-12848
Influence of wake and photoemission on electric field measurements with a double probe on GEOS-2
08 p1116 N84-17261
Active control of the potential of ISEE-1 by an electron gun 08 p1119 N84-17278
Ion source for a rocket payload
[AD-A135051] 08 p1121 N84-17289
Preliminary experiments with a carbon fiber tuft cathode
[DE84-006296] 12 p1813 N84-21820
Improved computer modelling of magnetron injection guns for gyrotrons
[DE84-007536] 15 p2330 N84-24992
Synthesis of MIG-type electron guns for gyrotrons
[INPE-3191-PRE/555] 21 p3391 N84-31517
LWIR signature from EXCEDE SPECTRAL
[AD-A144169] 24 p3860 N84-34483

ELECTRON IMPACT
Forbidden line radiation cooling of high altitude plasmas
[AD-A131266] 01 p0149 N84-10979
ELECTRON INTENSITY
U ELECTRON FLUX DENSITY
ELECTRON INTERACTIONS
U ELECTRON SCATTERING
ELECTRON IONIZATION
U IONIZATION
ELECTRON IRRADIATION
Double-injection, deep-impurity switch development
[NASA-CR-168335] 09 p1306 N84-18536
Motor performance in irradiated rats as a function of radiation source, dose, and time since exposure
[AD-A141209] 18 p2894 N84-28363
Comparative effects of bremsstrahlung, gamma, and electron radiation on rat motor performance
[AD-P003250] 18 p2904 N84-28417
Influence of oxygen on defect production in electron-irradiated, boron-doped silicon
19 p3045 N84-29320
Defect studies in one MeV electron irradiated GaAs and in Al/sub x Ga/sub I-x As P-N junction solar cells
19 p3045 N84-29321
The effects of lithium counterdoping on radiation damage and annealing in n(+)p silicon solar cells
[NASA-TM-83755] 21 p3390 N84-31513
Nonequilibrium segregation and phase instability in alloy films during elevated-temperature irradiation in a high-voltage electron microscope
[DE84-013423] 21 p3505 N84-32214
Radiation effects in silicon and gallium arsenide solar cells using isotropic and normally incident radiation
[NASA-CR-174007] 24 p3916 N84-34793
ELECTRON MASS
Calculation of molecular final states and their effect on a precision neutrino mass experiment
[DE84-011071] 20 p3295 N84-30921
ELECTRON MICROSCOPES
Structural characterization of dispersed metal catalysts
[DE83-017145] 03 p0354 N84-12305
Development of a 3-D microscale topography system
[AD-A136809] 13 p2006 N84-23013
AEM of extraterrestrial materials
[NASA-CR-167781] 17 p2777 N84-27630
Applications of the scanning electron microscope to concrete failure (Axial, biaxial, and dynamic)
[AD-A141788] 19 p3036 N84-29256
Boundary migration and disappearance of voids in Alpha-Al2O3 at 2000 deg C
[NASA-TM-77436] 19 p3110 N84-29758
Microscopic studies of accelerated destruction of plastic contact in kinematic pairs from different metals
[ISSN-0208-5658] 23 p3716 N84-33554
ELECTRON MICROSCOPY
High-voltage analytical electron microscopy
[DE83-014318] 01 p0085 N84-10554
High-resolution electron-microscopy studies of native oxide on silicon
[DE83-014794] 01 p0155 N84-11018
Tranemission electron microscopy characterization of microstructural features of Al-Li-Cu alloys
[NASA-TM-84384] 02 p0193 N84-11255
Calcium ions, stores, and modulators: What is the gravity receptor connection? 02 p0264 N84-11733
Silicon liquid phase epitaxy with solution transport by centrifugal forces and investigation and characterization of silicon epitaxial layers by transmission electron microscopy
[BMFT-FB-T-83-097] 02 p0300 N84-11969
Electron-microscope observation of crack propagation and a dislocation model of fracture
[DE83-014623] 03 p0389 N84-12540
Proceedings of the Seventh International Conference on High Voltage Electron Microscopy
[DE83-016323] 04 p0538 N84-13540
Structure and phase transitions in bromine and potassium-mercury intercalated graphite
[AD-A133863] 05 p0645 N84-14244
Use of scanning electron microscopy in studying surface reactions of metals with hydrogen
06 p0816 N84-15318
Effects of alloy composition and processing on the microstructure of D-9 type stainless steel
[DE84-003022] 07 p0975 N84-16321
Testing the authenticity of moldavite by electron microscopy
[NASA-TM-77335] 09 p1343 N84-18773
Effects of preheat on weldments of NICOP steel
[AD-A137145] 10 p1458 N84-19524
Ultrastructural effects of radiation on cells and tissues: Concluding remarks
[DE84-003454] 10 p1545 N84-20131
Development of a 3-d microscale topography system, phase 1
[AD-A137871] 11 p1633 N84-20677
Development of a 3-d microscale topography system, phase 2
[AD-A137872] 11 p1633 N84-20678
High resolution study of the relationship between misfit accommodation and growth of Cu sub 2-x in CdS
[DE84-004636] 11 p1673 N84-20920
Electron microscopy at atomic resolution
[DE84-005546] 11 p1730 N84-21288
Lunar sample analysis
[NASA-CR-171772] 11 p1758 N84-21476
High resolution TEM studies of defects near Si-SiO/sub 2 interface
[DE84-006562] 12 p1915 N84-22480
Modes of deformation and failure of Kevlar 49 fibers and composites
[DE84-004162] 13 p1954 N84-22706
Characterization of single crystal Cu/sub 2S/CdS heterojunctions by hing resolution electron microscopy
[DE84-006761] 13 p2048 N84-23287
Electron microscopy for damage analysis — fractures
14 p2125 N84-23738
Interface formation in physically deposited films
[MLM-3089] 16 p2470 N84-25827
Crystallization of the glassy phase of grain boundaries in silicon nitride
[NASA-TM-77466] 16 p2560 N84-26421
SEM (Scanning-Electron-Microscopy) studies of magnetic domains in amorphous metals
[AD-A140718] 17 p2624 N84-26793
Deformation and fracture studies of polymers in the scanning electron microscope 17 p2626 N84-26802
A study of aluminium brazes using hot stage scanning electron microscopy
[AERE-R-11063] 18 p2850 N84-28097
Microstructural evaluation of a ferritic stainless steel by small angle neutron scattering
[DE84-009487] 19 p2995 N84-28980
Application of HVEM in phase transformation research
[DE84-009226] 19 p2996 N84-28982
Corrosion of 5083 aluminum by aqueous sodium sulfate
[DE84-012033] 20 p3156 N84-30045
Application of transverse-section analytical electron microscopy to the study of oxidation of metal alloys
[DE84-006415] 20 p3157 N84-30049
The role of sintering in the oxidation-reduction of palladium powders
[DE84-011202] 20 p3159 N84-30059
Low temperature sintering of Al2O-CaO
[DE84-010713] 20 p3163 N84-30083
High resolution electron microscopy studies of the early stages of decomposition in alloys and ceramics
[DE84-020802] 20 p3163 N84-30087
Electron-microscopic microstructural examination of glassy Ge-Se semiconductors 20 p3287 N84-30871
Karnovsky-osmium as a primary fixative for electron microscopy
[AD-A142671] 20 p3300 N84-30957
Nonequilibrium segregation and phase instability in alloy films during elevated-temperature irradiation in a high-voltage electron microscope
[DE84-013423] 21 p3505 N84-32214
Structure of polycrystalline boron nitride as determined by electron microscopic thin sections
[CSIR-TRANS-1738] 22 p3558 N84-32533
Electron microscope study of processes of polygonization and recrystallization in alpha-phase of two-phase (alpha + beta)-titanium alloys with plate structure 23 p3708 N84-33507
Development of metallization process
[NASA-CR-173943] 23 p3789 N84-34031
Ultrastructural alterations in skeletal muscle fibers of rats after exercise
[NASA-TM-76976] 23 p3804 N84-34117
ELECTRON MOBILITY
A cluster model for two-dimensional disordered systems
[INPE-2895-PRE/414] 02 p0298 N84-11953
The collapse of the local, Spitzer-Haerm formulation and a global-local generalization for heat flow in an inhomogeneous, fully ionized plasma
03 p0468 N84-13080
Electron ballistic effects in III-V semiconductors
[AD-A135353] 08 p1235 N84-18072
ELECTRON MULTIPLIERS
U PHOTOMULTIPLIER TUBES
ELECTRON ORBITALS
Multiple scattering effects in EXAFS (Extended X-ray Absorption Fine Structure): Comparison between theory and experiment for Pt metal
[AD-A142199] 19 p2989 N84-28941
ELECTRON OSCILLATIONS
Influence of transient regimes of the motor on elastic mechanical vibrations in an electric drive
[BLL-M-35438-(5828.4)] 12 p1825 N84-21896
ELECTRON PARAMAGNETIC RESONANCE
Production of hydrogen by cyanobacteria
[PB83-228379] 01 p0054 N84-10347
EPR spectra of rare earth s-state ions in glassy systems
[DE83-014686] 01 p0155 N84-11022
Novel interactions of the charge-balancing cations with framework defects and trapped hydrogen atoms in holmium-exchanged Y zeolites
[DE83-014204] 03 p0433 N84-12839
EPR spectroscopy of thermally initiated free radicals in RDX
[AD-A133976] 05 p0646 N84-14251
Effects of light and modulation frequency on spin-dependent trapping at silicon grain boundaries
[DE84-002107] 07 p1082 N84-17035
Metallic microwave conductivity in shock-loaded rutile
[DE84-002174] 08 p1235 N84-18075
Electron spin resonance study of thermal instability reactions in jet fuels
[NASA-CR-168333] 09 p1289 N84-18418
Study of defects produced by the growth, post treatment and fabrication of quartz
[AD-A138327] 12 p1914 N84-22471
Research into the thermal decomposition of selected energetic material candidates (Project order ATL-2-094)
[AD-A138730] 13 p1966 N84-22770
Middle East Technical University Journal of Pure and Applied Sciences, volume 15, no. 3
15 p2401 N84-25411
Electron paramagnetic resonance (EPR) study of calcite (CaCO3) containing both Mn-2+ and Pb-2+ cations
15 p2401 N84-25413
Effect of iron on the electron paramagnetic resonance (EPR) spectra of Mn-2+ ions in polycrystalline calcite
15 p2402 N84-25414
Electronic properties of amorphous silicon dioxide
22 p3683 N84-33351
ELECTRON PATHS
U ELECTRON TRAJECTORIES
ELECTRON PHONON INTERACTIONS
Extensions of the theory of the electron-phonon interaction in metals: A collection
[AD-A134140] 07 p1079 N84-17018
Theoretical studies of solids under extreme conditions
[AD-A139352] 14 p2132 N84-23778
Evolution of the phonon spectrum and the density of states at the Fermi level near the martensitic transformation in NiAl, Ti(NiCo), CuZnAl and InTl alloys
[ESA-TT-767] 16 p2465 N84-25801
ELECTRON PHOTOGRAPHY
Boundary migration and disappearance of voids in Alpha-Al2O3 at 2000 deg C
[NASA-TM-77436] 19 p3110 N84-29758
ELECTRON PLASMA
Electron heating at interplanetary shocks
03 p0470 N84-13098
Beam plasma discharge and suprathermal electron tails 05 p0637 N84-14192
Radial structure of curvature-driven instabilities in hot-electron plasma
[DE84-002256] 06 p0921 N84-15986
Particle acceleration by electron plasma waves
10 p1582 N84-20369
Ballooning precessional instabilities in a single cell hot electron plasma
[DE84-007017] 14 p2230 N84-24373
Resistivity of a 2-D electron gas under strong magnetic field using a memory function formulation
[INPE-3118-PRE/513] 16 p2558 N84-26407
Resistivity of a disordered 2-D electron gas in terms of force-force correlation function
[INPE-3065-PRE/482] 16 p2558 N84-26408
Memory function formalism applied to electronic transport in disordered systems
[INPE-3064-PRE/481] 16 p2559 N84-26418
Electromagnetic radiation and scattering in a plasma with azimuthal biasing field 21 p3500 N84-32180
ELECTRON PRECIPITATION
VLF wave injections from the ground
05 p0634 N84-14173
On the stimulated precipitation of electrons and the mechanism of wave generation in the whistler range in the ARAKS experiment 05 p0637 N84-14190
Systematics of the equatorward diffuse auroral boundary
[AD-A132897] 05 p0704 N84-14617
A study of low energy electron precipitations and auroral phenomena by using the USAF polar orbiting satellites
[AD-A137888] 11 p1682 N84-20979

Observations of VLF transmitter-induced depletions of inner zone electrons
[AD-A137982] 12 p1847 N84-22042
The worst case charging environment
[AD-P002108] 16 p2522 N84-26194
Estimates of precipitating electron power flux from simultaneous DMSP auroral image and ISEE-1 AKR observations
[AD-P002109] 16 p2523 N84-26195
Space electron-induced discharge coupling into satellite electronics
[AD-P002114] 16 p2523 N84-26200
The influence of localized precipation-induced D-region ionization enhancements on subionospheric VLF progation 17 p2726 N84-27348
Diffuse auroral zone. Part 7: Dynamics of equatorial boundary in field of diffuse electron spill in evening sector 19 p2973 N84-26846
A numerical study of artificial electron aurora experiments
[ISAS-611] 20 p3240 N84-30568

ELECTRON PROBES
A beam current density monitor for intense electron beams
[AD-A137146] 11 p1660 N84-20832

ELECTRON PUMPING
Applications of vacuum technology to novel accelerator problems
[DE83-012710] 01 p0143 N84-10942
Auger electron pumping of short wavelength lasers
[DE84-009240] 19 p3030 N84-29217

ELECTRON RADIATION
NT BETA PARTICLES
NT ELECTRON BEAMS
NT RELATIVISTIC ELECTRON BEAMS
Use of radiation curing for the production of coated fabrics, profiles, flocking — vulcanizing
[BMFT-FB-T-83-176] 07 p0980 N84-16350
Space radiation effects on graphite-epoxy composite materials
[NASA-TM-85478] 16 p2460 N84-25769

ELECTRON RECOMBINATION
NT RADIATIVE RECOMBINATION
Hole trapping, recombination, and space charge in irradiated Sandia oxides
[DE83-015212] 03 p0454 N84-12986

ELECTRON RING ACCELERATORS
U STORAGE RINGS (PARTICLE ACCELERATORS)

ELECTRON RUNAWAY (PLASMA PHYSICS)
Acceleration of runaway electrons and Joule heating in solar flares
[NASA-TM-86112] 15 p2428 N84-25583

ELECTRON SCATTERING
NT CONFIGURATION INTERACTION
NT ELECTRON RUNAWAY (PLASMA PHYSICS)
Electron-ion collisions
[DE83-017211] 03 p0437 N84-12867
Predicting the base phase in the crystallization of eutectic alloys
[BLL-M-35347-(5828.4)] 04 p0497 N84-13262
Theory of electronic, atomic and molecular collisions
[AD-A134025] 05 p0743 N84-14883
Indirect processes in electron-ion scattering
[DE84-002381] 05 p0745 N84-14897
Study plasma interactions in the auroral ionosphere
[NASA-CR-175352] 07 p1032 N84-16698
Stimulated Cerenkov-Raman scattering
[AD-A136473] 09 p1387 N84-19061
Melting of electrons on corrugated surfaces: Structural and dynamical properties in liquid and solid phases
[DE84-004023] 09 p1397 N84-19122
Piece-wise analytic evaluation of the radiative tail from elastic and inelastic electron scattering
[PB84-155290] 14 p2223 N84-24342
Mathematical modelling of waveguiding techniques and electron transport, volume 2
[AD-A139604] 15 p2391 N84-25350
Mathematical modelling of waveguiding techniques and electron transport, volume 1
[AD-A139603] 15 p2397 N84-25382
Electron scattering: Lectures given at ANL
[DE84-006689] 15 p2414 N84-25491
The worst case charging environment
[AD-P002108] 16 p2522 N84-26194
Scattering properties of partly screened dielectric sphere
[REPT-218] 17 p2662 N84-26983
Multiple scattering effects in EXAFS (Extended X-ray Absorption Fine Structure): Comparison between theory and experiment for Pt metal
[AD-A142199] 19 p2989 N84-28941
Influence of collisions on the magnetized ion-ion instability
[AD-A141464] 19 p3101 N84-29696
Hyperspherical coordinate theory of 2 electron atomic processes
[DE84-009447] 19 p3102 N84-29705
Ballistic transport in submicron silicon mosfets
[AD-A142036] 19 p3111 N84-29766
Particel substructure. A common theme of discovery in this century
[DE84-006776] 19 p3113 N84-29762
Electromagnetic excitation of sound in metals 21 p3484 N84-32082
Resonances in electron-molecule scattering and photoionization
[DE84-012660] 21 p3494 N84-32139
Compton scattering of photons from electrons in thermal (Maxwellian) motion: Electron heating
[DE84-013860] 23 p3823 N84-34241
Prospect of polarized targets in electron rings
[DE84-014684] 23 p3823 N84-34245
Study of total gamma spectra correlation for extending identification range over photopeak analysis
[AD-A144637] 24 p3962 N84-35090

ELECTRON SOURCES
Source circuit design considerations 22 p3583 N84-32690

ELECTRON SPECTROSCOPY
EPR spectroscopy of thermally initiated free radicals in RDX
[AD-A133976] 05 p0646 N84-14251
Understanding localized behavior in the Auger spectra of covalent systems such as graphite
[AD-A133924] 05 p0647 N84-14255
Proceedings of Symposium on Surface Science and its Industrial Implications
[ISBN-0-7988-2417-4] 06 p0814 N84-15298
The use of Auger electron spectroscopy and ellipsometry in the study of corrosion inhibition 06 p0815 N84-15307
Impedance and ellipsometer measurements of lithium electrodes in propylene carbonate solutions
[DE84-003922] 07 p0998 N84-16475
Electron spectroscopy study of SiC
[AD-A134352] 07 p1080 N84-17023
Studies of supported metal catalysts
[DE84-004210] 09 p1285 N84-18389
Electrochemical and surface studies of the deposition of mercury and selenium at a gold electrode
[DE84-007209] 15 p2299 N84-24798
Fast ion atomic spectroscopy
[DE84-006720] 15 p2404 N84-25432
Feasibility studies of Conversion Electron Moessbauer Spectroscopy (CEMS) of iron-doped InP
[AD-A142463] 20 p3309 N84-31014
Surface analysis of space telescope material specimens
[NASA-CR-171163] 23 p3838 N84-34351

ELECTRON SPIN
Localized magnetization arising from spin-dependent impurity potentials in the Wolff model
[AD-A133652] 05 p0742 N84-14871

ELECTRON SPIN RESONANCE
U ELECTRON PARAMAGNETIC RESONANCE

ELECTRON STATES
Different sensitivity of s- and d-electron energy levels to a change in lattice parameters in transition metals
[BLL-M-35116-(5828.4)] 01 p0151 N84-10996
Photo-induced field emissions from metallic surfaces
[DE84-000872] 04 p0601 N84-13966
A study of the CH2NO2 radical using a multiconfigurational self-consistent field approach
[AD-A133815] 05 p0648 N84-14262
Molecular jet study of aniline-helium van der Waals molecules and aniline radiationless relaxation in the 1-B sub 2 excited electronic state
[AD-A132726] 05 p0744 N84-14888
Velocity and electronic state distributions of sputtered Fe atoms by laser-induced fluorescence spectroscopy
[DE84-003649] 08 p1230 N84-18040
Electron excitation of vibrational states of D2 and H2 and detection of excited states by laser-induced fluorescence
[AD-A141038] 18 p2846 N84-28070
Quantum chemical study of methane oxidation species
[NASA-CR-173819] 19 p2987 N84-28928
Chemical bonding, interdiffusion and electronic structure at InP, GaAs, and si-metal interfaces
[AD-A141809] 19 p2988 N84-28936
Absolute photoionization cross sections of atomic oxygen
[NASA-CR-173873] 21 p3492 N84-32130
A theoretical study of the energetics and dynamics of high energy inelastic collision processes
[AD-A142799] 21 p3497 N84-32163
Relativistic calculations and measurements of energies, Auger rates, and lifetimes
[AD-A143423] 22 p3663 N84-33220
Impurity cluster states in disordered 2-dimensional systems: A self-consistent Hartree-Fock-Roothaan model
[INPE-3223-PRE/574] 24 p3966 N84-35115

ELECTRON SWEEPING
U SWEEP FREQUENCY

ELECTRON TEMPERATURE
U ELECTRON ENERGY

ELECTRON TRAJECTORIES
Use of synchrotron radiation for electron identification at high luminosity 06 p0913 N84-15935
Planar channeling radiation from relativistic positrons and electrons in LiF
[DE84-002800] 07 p1081 N84-17033
Regular and stochastic motions of charged particles in electrostatic waves
[IPF-83-7] 14 p2223 N84-24341
Computer optimization of a linac injector trajectory
[DE84-005034] 15 p2408 N84-25456
Orbital stability in combined uniform axial and three-dimensional wiggler magnetic fields for free-electron lasers
[NASA-TM-83753] 20 p3192 N84-30273

ELECTRON TRANSFER
X-ray emission in heavy-ion collisions
[DE83-008776] 01 p0144 N84-10948
Thermolysis of 4-methyl-4-phenyl malonyl peroxide: A new oxygen dependent chemiluminescent reaction
[AD-A131863] 03 p0349 N84-12268
Studies of the correlation of electrode kinetics with molecular structure
[AD-A131704] 03 p0433 N84-12838
Studies of the electronic properties of two-dimensionally confined carriers in MIS (Metal-Insulator-Semiconductor) Inversion/Accumulation layers, heterojunctions and quantum wells
[AD-A134094] 05 p0752 N84-14935
Study of 1/f noise in solids
[AD-A133856] 05 p0753 N84-14939
Photophysical and photochemical properties of coumarin laser dyes in amphiphilic media
[AD-A136361] 09 p1321 N84-18630
Laser-induced neutralization and negative-ion formation in surface scattering
[AD-A135907] 09 p1322 N84-18641
Electron donor-acceptor quenching and photoinduced electron transfer for coumarin dyes
[AD-A136345] 09 p1394 N84-19105
Electrochemistry of anilines. 2: Oxidation to dications, electrochemical and UV/VIS spectroelectrochemical investigation
[AD-A136949] 10 p1454 N84-19498
On the theory of electron, h-atom and proton transfers
[AD-A137511] 10 p1577 N84-20330
Negative-ion formation from surface scattering and the Anderson correlation energy U
[AD-A138390] 12 p1914 N84-22473
Intramolecular electron transfer at metal surfaces. 1. Relative energetics of some corresponding outer- and inner-sphere pathways involving halide and pseudohalide bridging ligands
[AD-A139021] 13 p1956 N84-22716
Electron-transfer kinetics of redox centers anchored to metal surfaces: Weak- versus strong-overlap reaction pathways
[AD-A139043] 13 p1956 N84-22718
Intramolecular electron transfer at metal surfaces. 2: Comparisons of ligand-bridged CR(3) reduction kinetics at silver versus mercury electrodes
[AD-A139047] 13 p1956 N84-22720
The influence of specific reactant-solvent interactions on intrinsic activation entropies for outer-sphere electron transfer reactions
[AD-A139081] 13 p1957 N84-22725
Intramolecular electron transfer at metal surfaces. 3: Influence of bond conjugation on reduction kinetics of Cobalt (3) anchored to metal surfaces via thiophenecarboxylate ligands
[AD-A139066] 13 p2041 N84-23242
An experimental estimate of the electron-tunneling distance for some outer-sphere electrochemical reactions
[AD-A139049] 13 p2047 N84-23284
Dispersion spectroscopy of optical electron transfer in solution
[AD-A139101] 14 p2121 N84-23713
Mechanisms of photochemical reactions of transition metal complexes: Excited state electron transfer and organometallic photochemistry
[AD-A140006] 15 p2287 N84-24722
Photogalvanic cells driven by electron transfer quenching of excited singlet states
[DE84-009099] 15 p2330 N84-24991
Inner-sphere reorganization in optical electron transfer
[AD-A139722] 15 p2405 N84-25435

Study of intermediates from transition metal excited-state electron-transfer reactions
[DE84-008587] 18 p2942 N84-28657
The prediction of electrochemical reactivities from contemporary theory: Some comparisons with experiment
[AD-A142406] 20 p3147 N84-29985
Surface-Enhanced Raman Scattering for redox-active adsorbates: Pentaammineosmium (3)/(2) and Pentaammineruthenium (2) containing nitrogen heterocycle ligands
[AD-A142418] 20 p3148 N84-29987
Electrochemical activation parameters for surface-attached reactants evaluation of unimolecular frequency factors for representative ligand-bridged reactions
[AD-A142483] 20 p3148 N84-29990
Modulation of microwave power with electron transfer diodes 22 p3570 N84-32610
Solvation and dielectric dispersion in optical electron transfer
[AD-A144183] 24 p3880 N84-34580

ELECTRON TRANSITIONS
Matrix effects in ion-induced emission as observed in Ne collisions with Cu-Mg and Cu-Al alloys
[NASA-TM-83061] 01 p0141 N84-10923
Theoretical studies in molecular fragmentation: Processes, energetics and diagnostics
[AD-A134008] 05 p0743 N84-14884
Theoretical studies of atomic transitions
[DE84-002628] 07 p1073 N84-16970
Elementary excitations in semiconductor superlattices structures 08 p1234 N84-18065
Energetics and collision dynamics of electronic transition lasers
[AD-A135894] 09 p1322 N84-18639
On the theory of electron, h-atom and proton transfers
[AD-A137511] 10 p1577 N84-20330
Rates and mechanisms of energy dissipation and the structure of molecular solids
[AD-A137714] 11 p1730 N84-21283
Emission properties of highly ionized iron spectra for spectroscopic plasma diagnositcs 11 p1735 N84-21314
High pressure electron resonance studies of electronic, magnetic, and structural phase transitions
[DE84-008814] 18 p2941 N84-28653
Direct measurement of a VUV transition oscillator strength in xenon
[DE84-008555] 18 p2941 N84-28655
Flat panel — displays
[BMFT-FB-T-84-048] 19 p3019 N84-29141
Absolute photoionization cross sections of atomic oxygen
[NASA-CR-173873] 21 p3492 N84-32130
Optical stark effect in the 2-photon spectrum of NO
[NASA-TM-85964] 21 p3492 N84-32131

ELECTRON TUBES
NT CAMERA TUBES
NT CATHODE RAY TUBES
NT GAS DISCHARGE TUBES
NT IMAGE DISSECTOR TUBES
NT KLYSTRONS
NT MAGNETRONS
NT MICROWAVE OSCILLATORS
NT MICROWAVE TUBES
NT THERMICONS
NT THYRATRONS
NT TRAVELING WAVE TUBES
NT VACUUM TUBES
NT VIDICONS
Manufacturing Methods and Technology (MM and T) specifications for miniature cathode ray tube
[AD-A131042] 01 p0072 N84-10468
Decoupling ion efficiency from impedance in pulsed power diodes
[DE83-018114] 04 p0528 N84-13470
The effect of pulse current on the electrical strength of high-voltage modulator tubes
[AD-A136489] 09 p1307 N84-18544
Millimeter wave metal-insulator-metal detector/mixer diode
[AD-A138391] 12 p1812 N84-21815

ELECTRON TUNNELING
Phase-slip centers and their interactions
[AD-A130914] 01 p0153 N84-11006
Laser activated MTOS microwave device
[NASA-CASE-NPO-16112-1] 03 p0378 N84-12463
Squeezable electron tunneling junctions
[AD-A132884] 05 p0754 N84-14946
Tunneling through amorphous silicon barriers
[AD-A135866] 09 p1395 N84-19110
An electromagnetic squeezer for compressing squeezable electron tunneling junctions
[AD-A136668] 10 p1588 N84-20410
Thin film technology of high-critical-temperature superconducting electronics
[AD-A136722] 10 p1589 N84-20411
Spectroscopy of surface adsorbed molecules
[DE84-005254] 10 p1589 N84-20417
A far-infrared laser study of small-area superconducting tunnel junctions
[AD-A137186] 11 p1744 N84-21383
An experimental estimate of the electron-tunneling distance for some outer-sphere electrochemical reactions
[AD-A139049] 13 p2047 N84-23284
Observation of bistability in a Josephson device 14 p2235 N84-24409
The transfer of atoms, ions and molecular groups in solution. Part 2: Tunnelling between harmonic wells
[AD-A142334] 20 p3147 N84-29982
Synthesis and characterization of superconducting electronic materials
[AD-A144137] 24 p3966 N84-35116

ELECTRON-ION RECOMBINATION
NT RADIATIVE RECOMBINATION
Experimental determination of transport coefficients in CO2 laser gas mixtures
[DE83-013638] 01 p0088 N84-10572
Ionic reactions of atmospheric importance
[AD-A137166] 11 p1683 N84-20981

ELECTRONIC AIRCRAFT
A study on airborne integrated display system and human information processing
[NASA-TM-77338] 06 p0891 N84-15789
Radio frequency distribution assembly
[AD-A143575] 22 p3577 N84-32658
Radio frequency distribution assembly, operations and maintenance manual
[AD-A143864] 23 p3731 N84-33649

ELECTRONIC AMPLIFIERS
U AMPLIFIERS

ELECTRONIC CONTROL
Comparison of flight results with digital simulation for a digital electronic engine control in an F-15 airplane
[NASA-TM-84903] 05 p0630 N84-14144
Capacity control of screw compressor units 11 p1640 N84-20726
Fault tolerant architectures for integrated aircraft electronics systems, task 2
[NASA-CR-172282] 18 p2795 N84-27734
Preliminary flight evaluation of F100 engine model derivative airstart capability in an F-15 airplane
[NASA-TM-86031] 19 p2965 N84-28792
Effect of control logic modifications on airstart performance of F100 engine model derivative engines in an F-15 airplane
[NASA-TM-85900] 20 p3130 N84-29879
Electronic 4-wheel drive control device
[NASA-TM-77618] 24 p3910 N84-34764

ELECTRONIC COUNTERMEASURES
NT CHAFF
ECM (Electronic Counter Measure) signal discrimination and identification techniques
[AD-A133427] 06 p0824 N84-15372
Contending with jamming in decametric waves in an adaptive system of all-directional antennas 06 p0868 N84-15653
Analysis of electrical accident prevention countermeasures
[PB84-102987] 08 p1207 N84-17869
Adaptive array combined with spread spectrum in communications 13 p1976 N84-22825
Spread spectrum communication in jamming 13 p1976 N84-22827
Air Force Technical Objective Document (TOD) C(3)I (command, control, communications and intelligence) - fiscal year 1985
[AD-A141276] 18 p2829 N84-27961
An Electronic Counter Measures (ECM) program generator
[LEOK-TR-1983-13] 18 p2830 N84-27970
Simulation of an electronic countermeasure technique
[AD-D011143] 22 p3572 N84-32619
In-flight accuracy and coverage tests of ESM- and ECM-systems 24 p3849 N84-34412

ELECTRONIC EQUIPMENT
NT AVALANCHE DIODES
NT BIPOLAR TRANSISTORS
NT CHARGE COUPLED DEVICES
NT CHARGE TRANSFER DEVICES
NT CMOS
NT DIODES
NT ELECTRONIC FILTERS
NT ELECTRONIC MODULES
NT ELECTRONIC PACKAGING
NT ELECTRONIC TRANSDUCERS
NT FIELD EFFECT TRANSISTORS
NT GALLIUM ARSENIDE LASERS
NT GERMANIUM DIODES
NT GUNN DIODES
NT HETEROJUNCTION DEVICES
NT JFET
NT JUNCTION DIODES
NT JUNCTION TRANSISTORS
NT LIGHT EMITTING DIODES
NT METAL OXIDE SEMICONDUCTORS
NT METAL-NITRIDE-OXIDE-SEMICONDUCTORS
NT MINIATURE ELECTRONIC EQUIPMENT
NT MIS (SEMICONDUCTORS)
NT MULTISPECTRAL LINEAR ARRAYS
NT PHOTODIODES
NT PHOTOVOLTAIC CELLS
NT PLASMA DIODES
NT RUBY LASERS
NT SCHOTTKY DIODES
NT SEMICONDUCTOR DEVICES
NT SEMICONDUCTOR DIODES
NT SEMICONDUCTOR LASERS
NT SILICON CONTROLLED RECTIFIERS
NT SILICON TRANSISTORS
NT SOLID STATE DEVICES
NT SOLID STATE LASERS
NT SPACECRAFT ELECTRONIC EQUIPMENT
NT THERMISTORS
NT THYRISTORS
NT TRANSISTOR AMPLIFIERS
NT TRANSISTORS
NT TUNNEL DIODES
NT VARACTOR DIODES
NT YAG LASERS
A survey of the state-of-the-art in aging of electronics with application to nuclear-power-plant instrumentation
[DE83-012696] 01 p0073 N84-10478
Theoretical analysis of nonreciprocal electromagnetic surface wave devices
[AD-A131630] 02 p0209 N84-11368
From launching carrier rockets towards the Pacific on the accomplishments and problems of electronic technologies in our country
[AD-A131088] 03 p0366 N84-12380
Use of superposition in calculating cooling requirements for circuit cards containing arrays of electronic components
[DE83-016091] 03 p0373 N84-12428
Collapsible photovoltaic-concentrator array portable power from the Sun
[DE84-000713] 04 p0558 N84-13677
General Purpose Electronic Test Equipment (GPETE) acquisition considerations for automated calibration
[AD-A133865] 05 p0718 N84-14709
The development of efficient coding for an electronic mail system
[NASA-CR-173201] 07 p0992 N84-16429
Development of an instrument for real-time computation of indicated mean effective pressure
[NASA-TP-2238] 07 p0997 N84-16461
Quantitative Secondary Ion Mass Spectroscopy (SIMS)
[AD-A134195] 08 p1125 N84-17315
Testability of interconnection structures
[AD-A135431] 08 p1168 N84-17607
A cost prediction model for electronic systems flight test costs
[AD-A135598] 09 p1255 N84-18195
Design and manufacturing technology of radioelectronic equipment, chapter 5
[AD-A136509] 09 p1307 N84-18545
Scientific and technical information output of the Langley Research Center
[NASA-TM-85735] 09 p1399 N84-19137
The impact of VLSI on signal processing 09 p1402 N84-19159
Some critical issues in VLSI signal processor implementation 09 p1403 N84-19164
Criteria for accelerated random vibration tests with non-linear damping 10 p1513 N84-19902
Vibration test environments for electronics mounted in a remotely piloted vehicle 10 p1513 N84-19903
Vibration test software for electronics mounted in a remotely piloted vehicle 10 p1513 N84-19904
Center for Electronics and Electrical Engineering Technical Progress Bulletin covering center programs, October - December 1982
[PB84-137322] 11 p1705 N84-21115
Shock response spectra variational analysis for pyrotechnic qualification testing of flight hardware
[NASA-TP-2315] 14 p2115 N84-23676
Electronics in weapon systems
[MBB-UA-768-83-O] 14 p2143 N84-23850
Application for surveying technology for the alignment of large optical systems
[DE84-006005] 14 p2225 N84-24353
Joint services electronics program
[AD-A140434] 16 p2485 N84-25936

International competitiveness in electronics
[PB84-170695] 16 p2568 N84-26475
Second Ariane launch pad at Kourou, Belgian participation 17 p2640 N84-26889
PDS concepts and astronomical applications: An overview 18 p2840 N84-28029
Computer graphics enhancement for COMEL (communications electronics)
[AD-A141920] 20 p3269 N84-30741
Improving system affordability
[AD-A142387] 20 p3318 N84-31062
MIL-STD-1553B validation testing
[AD-P003544] 21 p3333 N84-31148
Digital multi-tapped delay line with automatic time-domain programming
[AD-D011136] 22 p3581 N84-32676
West Europe report: Science and technology, no. 157
[JPRS-84434] 24 p3892 N84-34545
Commentary on Philips R and D strategy, policies, major efforts 24 p3892 N84-34647
Evaluation of methodologies for estimating vulnerability to electromagnetic pulse effects
[AD-A144408] 24 p3894 N84-34663
Joint services electronics program
[AD-A144444] 24 p3898 N84-34684
Joint services electronics program
[AD-A144445] 24 p3898 N84-34685

ELECTRONIC EQUIPMENT TESTS
Reliability programs for nonelectronic designs, volume 1
[AD-A133624] 05 p0689 N84-14529
Avionics fault tree analyzer 06 p0771 N84-15053
Test Operations Procedure: Signal converters
[AD-A134615] 08 p1144 N84-17446
Preparation of standard electrical testability provisions for space equipment. Volume 1: Executive summary
[DM.51/CV/JP/327.83-VOL-1] 08 p1153 N84-17507
Preparation of standard electrical provisions for space equipments
[DM.51/CV/JP/327.83-VOL-2] 08 p1153 N84-17508
EMC (electromagnetic compatibility) system test and analysis interface
[AD-A136064] 09 p1303 N84-18519
Lifetime prediction for electronic components and circuits using the phase noise measuring method
[FB-111] 10 p1487 N84-19723
NASA flight electronics environmental stress screening survey
[NASA-CR-173472] 12 p1841 N84-22002
Electro-Magnetic Compatability Test Facility, Bristol
[BAE-BT-10658] 13 p1935 N84-22586
Apparatus for certification of angular-displacement transducers 13 p1973 N84-22806
Environmental qualification tests, signal conditioning unit, SD802 materials experiment
[AD-A138910] 13 p1987 N84-22897
Description of an electromagnetic compatibility laboratory
[SNIAS-832-422-103] 15 p2321 N84-24933
Minimum operational performance standards for traffic alert and collision avoidance system (TCAS) airborne equipment, volume 1
[RTCA/DO-185-VOL-1] 16 p2445 N84-25685
GfW handbook: Irradiation test guidelines for radiation hardness of electronic components
[HMI-B-380] 17 p2664 N84-26994
High-resistance measuring standards of electrical resistance 18 p2826 N84-27939
Novelties in design of instruments for measuring high ac voltages 18 p2826 N84-27940
Development of low cost custom hybrid microcircuit technology
[NASA-CR-161977] 18 p2832 N84-27978
Advanced application of the printed circuit board testability design and rating system
[AD-A141147] 18 p2834 N84-27989
A SAR system test unit for verification of user requirements
[BMFT-FB-W-84-002] 19 p3009 N84-29074
MIL-STD-1553B validation testing
[AD-P003544] 21 p3333 N84-31148
MIL-STD-1553: Testing and test equipment
[AD-P003545] 21 p3333 N84-31149
Status of the development of a long-life engine coolant system
[AD-A143098] 21 p3413 N84-31642
The TM/TC processor study report — telemetry/telecommand (TM/TC)
[BL-5577] 23 p3700 N84-33449

ELECTRONIC FILTERS
Computerized audio processor
[AD-A130390] 01 p0063 N84-10411
Linear time-variant space-variant filters and the WKB approximation
[AD-A134886] 08 p1228 N84-18021
Input filter compensation for switching regulators
[NASA-CR-173557] 15 p2327 N84-24975

ELECTRONIC LEVELS
U ELECTRON ENERGY
U ENERGY LEVELS

ELECTRONIC MODULES
Design of a system that understands informal specifications
[AD-A131479] 02 p0273 N84-11785
Standard NIM digital bus (NIM/GPIE)
[DE83-017865] 04 p0522 N84-13435
30/20 GHz spacecraft GaAs FET solid state transmitter for trunking and customer-premise-service application
[NASA-CR-168276] 07 p0997 N84-16463
Analysis and testing of the thermal design of the electronic package in the US Army's Upgraded Logic Module (ULM)
[AD-A135998] 09 p1308 N84-18551
Hybrid integrated optic modules for real-time signal processing 12 p1905 N84-22412
Microbus
[AD-A132338] 18 p2833 N84-27984
MMIC technology for advanced space communications systems
[NASA-TM-83749] 20 p3173 N84-30147
Achieving the benefits of modular avionics design
[AD-P003562] 21 p3336 N84-31167
Navy packaging standardization thrusts
[AD-P003564] 21 p3336 N84-31169
The 20 and 30 GHz MMIC technology for future space communication antenna system
[NASA-TM-83745] 21 p3382 N84-31460

ELECTRONIC PACKAGING
Wafer-scale integration of systolic arrays
[AD-A132536] 04 p0525 N84-13450
Evaluation of type 2 fast packs for electrostatic discharge properties
[AD-A133158] 06 p0853 N84-15557
Flexible substrate for printed wiring
[NASA-TM-77459] 10 p1451 N84-19478
Electronic packaging and interconnect technology working group report IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A137336] 10 p1504 N84-19833
Electronic scanning pressure measuring system and transducer package
[NASA-CASE-ARC-11361-1] 13 p1993 N84-22934
New integrated circuit casing 18 p2918 N84-28504
Monolithic microwave integrated circuits: Interconnections and packaging considerations
[NASA-TM-83774] 21 p3382 N84-31461

ELECTRONIC PHOTOGRAPHY
U ELECTRO-OPTICAL PHOTOGRAPHY

ELECTRONIC SIGNAL MEASUREMENT
U SIGNAL MEASUREMENT

ELECTRONIC SPECTRA
Electron-energy-loss spectral library and its application to materials science
[DE84-000588] 04 p0494 N84-13241
Electronic spectra from molecular dynamics: A simple approach
[AD-A134325] 07 p1071 N84-16961
Electronic spectra of condensed phase under shock conditions
[AD-A137531] 11 p1652 N84-20785
Theoretical study of the radiative and kinetic properties of selected metal oxides and air molecules
[AD-A141230] 18 p2811 N84-27847

ELECTRONIC STRUCTURE
U ATOMIC STRUCTURE

ELECTRONIC SWITCHES
U SWITCHING CIRCUITS

ELECTRONIC TRANSDUCERS
Apparatus for certification of angular-displacement transducers 13 p1973 N84-22806
Electronic scanning pressure measuring system and transducer package
[NASA-CASE-ARC-11361-1] 13 p1993 N84-22934

ELECTRONIC WARFARE
Multi-sensor fusion, communications and information warfare
[AD-P002895] 13 p1980 N84-22855
Electronics in weapon systems
[MBB-UA-768-83-O] 14 p2143 N84-23850
An Electronic Counter Measures (ECM) program generator
[LEOK-TR-1983-13] 18 p2830 N84-27970
Radio frequency distribution assembly
[AD-A143575] 22 p3577 N84-32658
Naval applications for Remotely Piloted Vehicles (RPV's)
[AD-A143826] 23 p3693 N84-33405
Radio frequency distribution assembly, operations and maintenance manual
[AD-A143864] 23 p3731 N84-33649

ELECTRONICS
Flywheel electronics 03 p0345 N84-12239
IPACS electronics: Comments on the original design and current efforts at Langley Research Center 03 p0345 N84-12240
Analog fault diagnosis of large-scale electronic circuits
[AD-A133491] 06 p0830 N84-15400
STEP electronic system design 08 p1109 N84-17214
Fiber-optics symposium, scientific agreement describe 12 p1897 N84-22358
Industry official on progress in Soviet robotics program 14 p2155 N84-23915
Computational modeling and mathematics applied to the physical sciences
[DE84-008252] 14 p2214 N84-24301
Holographic data storage crystals for LDEF (A0044) 15 p2277 N84-24677
Scanning photoelectric devices of search and tracking
[AD-A132566] 17 p2671 N84-27027
Electronics seminar contributions enumerated 18 p2918 N84-28506
Edge Stabilized Ribbon (ESR); stress, dislocation density and electronic performance 18 p2937 N84-28630
USSR report: Electronics and electrical engineering
[JPRS-UEE-84-008] 21 p3376 N84-31427
Monolithic microwave integrated circuits: Interconnections and packaging considerations
[NASA-TM-83774] 21 p3382 N84-31461
USSR report: Physics and mathematics
[JPRS-UPM-84-005] 21 p3484 N84-32081

ELECTRONS
NT CONDUCTION ELECTRONS
NT FREE ELECTRONS
NT HIGH ENERGY ELECTRONS
NT HOT ELECTRONS
NT N ELECTRONS
NT PHOTOELECTRONS
NT RELATIVISTIC ELECTRON BEAMS
NT SOLAR ELECTRONS
Computation of counting distributions arising from a single-stage multiplicative process
[AD-A131480] 01 p0072 N84-10471
Relativistic calculations and measurements of energies, Auger rates and lifetimes
[AD-A130094] 01 p0141 N84-10924
A multistage spent particle collector and a method for making same
[NASA-CASE-LEW-13914-1] 03 p0376 N84-12447
The Mimas ghost revisited: An analysis of the electron flux and electron microsignatures observed in the vicinity of Mimas at Saturn
[NASA-CR-174596] 03 p0464 N84-13056
Neutrino-oscillation experiments at Brookhaven National Laboratory
[DE83-018275] 04 p0528 N84-13476
Physics with polarized beams in e+e(-) colliders
[DE83-016441] 04 p0602 N84-13976
The conversion of off-vertical observations of total electron content into equivalent vertical-incidence values
[AD-A132624] 05 p0703 N84-14613
Muons and electrons in general 06 p0914 N84-15938
Energy distributions and yields of secondary ions and electrons emitted by GIOTTO during Halley encounter
[DE84-001661] 06 p0940 N84-16105
Interpretation of STS-3/plasma diagnostics package results in terms of large space structure plasma interactions
[NASA-CR-173266] 07 p1075 N84-16991
Theory of elementary excitations in intermediate valence materials
[DE84-003705] 07 p1083 N84-17044
The ISPM experiment for spectral, composition and anistropy measurements of charged particles at low energie 09 p1261 N84-18235
Effect of concentrated energy streams on materials: Problems and prospects 12 p1784 N84-21638
Effect of electron irradiation on relaxation of tension in aluminum and aluminum alloys 12 p1784 N84-21639
Pair production rates in mildly relativistic, magnetized plasmas
[NASA-TM-86103] 15 p2405 N84-25434
Electron excitation of vibrational states of D2 and H2 and detection of excited states by laser-induced fluorescence
[AD-A141038] 18 p2846 N84-28070

Data needs for the track structure of alpha particles and electrons in water
[DE84-009154] 19 p3103 N84-29710
Acceleration of ions and electrons by wave-particle interactions
[AD-A142341] 20 p3292 N84-30900
Nonequilibrium optical and acoustic phonons in semiconductors 21 p3485 N84-32085
Large amplitude MHD waves upstream of the Jovian bow shock: Reinterpretation
[NASA-TM-86131] 21 p3525 N84-32333
Photon-photon absorption and the uniqueness of the spectra of active galactic nuclei
[NASA-TM-86117] 21 p3526 N84-32338
Numerical calculations of the function of the static receptivity of electrons in metals
[BLL-M-35640-(5828.4)] 22 p3551 N84-32480
Relativistic calculations and measurements of energies, Auger rates, and lifetimes
[AD-A143423] 22 p3663 N84-33220
Extensions of electron stimulated desorption measurements. Investigation of gas adsorption on Cu layers deposited on a tungsten (110) surface
[AD-A143779] 23 p3714 N84-33539
Means and method for calibrating a photon detector utilizing electron-photon coincidence
[NASA-CASE-NPO-15644-1] 23 p3749 N84-33767
Stability of laminar electron layers
[AD-A143788] 23 p3822 N84-34235
Elementary excitations and quasi-two-dimensional behaviour in a GaAs field effect transistor
[DE84-701190] 24 p3967 N84-35122
The study of peculiarities of the energy spectrum of low energy electrons in the lower atmosphere
24 p3993 N84-35273
The study of the dynamics of the electron fluxes and spectra during solar minimum 24 p3994 N84-35276

ELECTROPHORESIS
Laser chromatography (gaseous electrophoresis) of chemical agents
[AD-A130948] 01 p0087 N84-10565
Evaluation of the separability of monodisperse polystyrene latex microspheres in a continuous flow electrophoresis system 06 p0932 N84-16057
Studies of proteinograms in dermatophytes by disc electrophoresis. 1. Protein bands in relation to growth phase
[NASA-TM-77095] 07 p1042 N84-16755
Comparison of organisms and cell types using two-dimensional electrophoresis
[DE84-003574] 08 p1197 N84-17807
Studies on proteinograms in dermatorphytes by disc electrophoresis. Part 2: Protein bands of keratinophilic fungi
[NASA-TM-77096] 10 p1545 N84-20127
Electrophoretic recording of color images with high quality
[BMFT-FB-T-83-319] 12 p1794 N84-21702
Sintering phenomena of non-oxide silicon compounds
[DE84-006599] 12 p1802 N84-21747
Analysis of electrophoresis performance
[NASA-CR-171034] 15 p2286 N84-24716
Poly (ADP-ribose) in nucleoids
[OEFZS-4267] 18 p2900 N84-28399
Effects of prolonged weightlessness on orchidaceae proteins 23 p3805 N84-34130

ELECTROPHOTOMETERS
Photoelectric master means of measurement of energy and maximum power of pulsed lasers
17 p2637 N84-26872

ELECTROPHOTOMETRY
A survey of halo RR Lyrae stars
13 p2069 N84-23409

ELECTROPHYSICS
NT ELECTRO-OPTICS
European Scientific Notes, volume 37, number 7
[AD-A132676] 05 p0759 N84-14979
Basic and applied research in the field of electronics and communications
[AD-A135283] 08 p1150 N84-17487
European Scientific Notes, volume 37, no. 12
[AD-A135883] 09 p1404 N84-19173

ELECTROPHYSIOLOGY
Neuronal adaptive mechanisms underlying intelligent information processing
[AD-A133694] 06 p0689 N84-15776
Neurophysiological bases of event-related potentials
[AD-A135283] 09 p1362 N84-18897

ELECTROPLATING
Plating on aluminum: Influence on varying zinc immersion treatment times
[DE83-015246] 02 p0196 N84-11272
Control of precious-metal plating baths using electrogravimetric analysis
[DE83-016772] 02 p0196 N84-11276
Methods in competition with electroplating
[BLL-OA-TRANS-3037-(6196.3)]
06 p0800 N84-15213
Diffusion films produced by heat treatment of electroplated coatings
[BLL-OA-TRANS-3082-(6196.3)]
06 p0804 N84-15237
Pilot system for the purification of rinse water and for the recuperation of metals in electroplating companies. Pilot system metal recovery from waste water (RMA)
[BMFT-FB-T-83-208] 08 p1126 N84-17323
Aluminum-manganese plating from a molten salt bath
[AD-A135240] 08 p1131 N84-17356
Electroplated metal coatings produced by fused salt electrolysis
[BLL-OA-TRANS-3140-(6196.3)]
09 p1281 N84-18366
A melt for electrolytic tungsten plating — using a carbamide base and ammonium chloride
[BLL-OA-TRANS-3160-(6196.3)]
09 p1281 N84-18369
Development of a process for manufacturing high voltage CMOS circuits and of a technology for gold bump plating for use in integrated display systems
[BMFT-FB-T-83-280] 10 p1488 N84-19732
Zinc electrode morphology in acid electrolytes
[DE84-007184] 14 p2124 N84-23728
Navy electroplating pollution control technology assessment manual
[AD-A140336] 16 p2477 N84-25879
Electrochemistry Research Needs for Mineral and Primary Materials Processing: Report of Workshop
[PB84-192905] 20 p3159 N84-30062
Pulsed current hard chromium plating
[CETIM-12-F-390] 21 p3369 N84-31372
Hydrogen fatigue test — plated bolts
[CETIM-12-F-400] 21 p3369 N84-31373
Engineering properties of some coatings
[DE84-002715] 21 p3371 N84-31390
Microstructural stability of copper electroplate
[DE84-010070] 21 p3498 N84-32174
Procedure for the electroplating of sintered materials containing carbide or cast alloys of tungsten, molybdenum, titanium or zirconium
[BLL-RISLEY-TRANS-4557-(9091.9)]
22 p3551 N84-32484
Development of a production process for central receiver coatings
[BMFT-FB-T-84-124] 23 p3792 N84-34051

ELECTROPLETHYSMOGRAPHY
Use of changes in electrical impedance in cardiology
11 p1701 N84-21094

ELECTROPOLISHING
Characterization of alloy 600 surfaces after exposure to a caustic environment
[DE83-018297] 04 p0503 N84-13300
Ion plating in corrosion protection
[DE84-001182] 06 p0807 N84-15256

ELECTROREFINING
The quick and complete recovery of the precious metals of low-grade sweeps and scrap
[BMFT-FB-T-84-003] 15 p2299 N84-24801

ELECTRORETINOGRAPHY
ERG (Electroretinogram) implicit time: An exploration of high frequency wavelets recorded in the human visual system
[AD-A134575] 08 p1201 N84-17832

ELECTROSEISMIC EFFECT
U ELECTRIC CURRENT
U SEISMIC WAVES

ELECTROSLAG PROCESS
Mechanical-property characterization of an electroslag-cast valve body of CF8M composition
[DE84-002253] 05 p0655 N84-14309

ELECTROSLAG REFINING
ESR steel deoxidation and slag practice: Influence on inclusion morphology
[MRL-R-915] 12 p1796 N84-21718
The potential for bulk undercooling as an industrial process 24 p3882 N84-34592
Characterization of macrosegregation in ESR IN-718
24 p3882 N84-34598
A review of our present understanding of macrosegregation in ingots 24 p3883 N84-34601

ELECTROSLAG WELDING
Preliminary investigation of ways to improve the strength of vertical electroslag welding
[CETIM-100-020] 21 p3415 N84-31654

ELECTROSTATIC CHARGE
ESD evaluation of radiation-hardened, high-reliability CMOS and MNOS ICs
[DE84-000138] 04 p0529 N84-13481
Electrostatic ion-cyclotron waves in magnetospheric plasmas: Non-local aspects
[NASA-CR-174501] 05 p0749 N84-14917
Electrostatic discharge (ESD) simulator experiment (testing of some switches/relays for application to an ESD simulation circuit)
[AD-A134580] 07 p0998 N84-16468
Electrostatic safety with explosion suppressant foams
[AD-A137503] 10 p1424 N84-19314
Electrostatic charging test for aviation fuel filters
[AD-A136986] 10 p1433 N84-19366
Impact of electrostatics on IC (Integrated Circuit) fabrication
[AD-A137372] 10 p1486 N84-19713
A laboratory study of aircraft precipitation static charging
[AD-A142561] 21 p3443 N84-31848

ELECTROSTATIC ENGINES
Ion thruster project
[INPE-2803-PRE/363] 02 p0186 N84-11205
Ion extraction capabilities of two-grid accelerator systems
[NASA-CR-174621] 10 p1450 N84-19468
Test bed ion engine development
[NASA-CR-174623] 11 p1624 N84-20632
Ion beamlet steering for two-grid electrostatic thrusters
[NASA-CR-174671] 21 p3354 N84-31274

ELECTROSTATIC EROSION
U SPARK MACHINING

ELECTROSTATIC FIELDS
U ELECTRIC FIELDS

ELECTROSTATIC GYROSCOPES
Probabilistic characteristics of perturbation torques in gyroscopes with electrostatic suspension
17 p2643 N84-26913

ELECTROSTATIC PLASMA
U PLASMAS (PHYSICS)

ELECTROSTATIC PRECIPITATORS
Mathematical model of electrostatic precipitation for the Texas Instruments Programmable 59 calculator
[PB83-261689] 04 p0560 N84-13695
Experimental investigation concerning the feasibility of electrostatic precipitators at high pressures and temperatures — gas cleaning systems for coal conversion
[BMFT-FB-T-83-201] 08 p1183 N84-17704
Characterization of acid rain for source identification. Task 1: Sulfur isotope rationing
[DE84-006510] 12 p1845 N84-22030
Mathematical model of electrostatic precipitation (revision 3). Volume 1: Modeling and programming
[PB84-212679] 22 p3549 N84-32469
Mathematical model of electrostatic precipitation (revision 3). Volume 2: User's manual
[PB84-212687] 22 p3549 N84-32470
System for the removal of airborne contaminants from aircraft environmental control systems
[AD-D011172] 23 p3727 N84-33615
Control of respirable particles and radon progeny with portable air cleaners
[DE84-013878] 23 p3812 N84-34170

ELECTROSTATIC PROBES
Probe measurement of DC electric fields — SCATHA satellite charging 08 p1116 N84-17255
The potential of ISEE in different plasma environments 08 p1116 N84-17257
Influence of wake and photoemission on electric field measurements with a double probe on GEOS-2
08 p1116 N84-17261
Ion measurements on GEOS using a negatively biased sensor on a positively charged spacecraft
08 p1117 N84-17263
Incident velocity distributions on sampling electrodes of spacecraft plasma instruments 08 p1117 N84-17267
Impact ionization effects on Pioneer Venus Orbiter
08 p1118 N84-17270
Ionic reactions of atmospheric importance
[AD-A137166] 11 p1683 N84-20981
A rocket-borne Langmuir probe for in-situ measurement of ionospheric plasma
[INPE-3206-PRE/564] 21 p3349 N84-31244
Plasma conductivity experiments on pulsed high-voltage discharges by two coil RF-probe
[AD-A144595] 24 p3965 N84-35110

ELECTROSTATIC PROPULSION
NT ION PROPULSION

ELECTROSTATIC SHIELDING
Grounding ring for shielded cable
[AD-D011135] 22 p3581 N84-32675

ELECTROSTATIC WAVES
Solutions of a 4th order differential equation describing mode conversion in a magnetized plasma
[AD-A131600] 02 p0281 N84-11840
Scale lengths in quasi-parallel shocks
[NASA-TM-85109] 03 p0407 N84-12663
Electrostatic waves and anomalous transport in the solar wind 03 p0470 N84-13095

Wave and particle observations associated with the beam plasma discharge in a space simulation chamber
04 p0489 N84-13210
Results from wave injection experiments on the Porcupine rocket 05 p0635 N84-14175
Observation of waves induced by an artificial ion beam in the ionosphere 05 p0635 N84-14176
Observations of stimulated electromagnetic emissions during ionospheric heating experiments
05 p0635 N84-14179
The HF-enhanced plasma line
05 p0635 N84-14180
Plasma wave experiment for the ISEE-3 mission
[NASA-CR-175132] 06 p0919 N84-15972
An investigation of RF currents in a magnetized plasma using a slow wave structure
[AD-A135880] 09 p1385 N84-19047
Regular and stochastic motions of charged particles in electrostatic waves
[IPF-83-7] 14 p2223 N84-24341
A laboratory investigation of the high-frequency Farley-Buneman instability
[NASA-CR-173435] 16 p2525 N84-26215
The dc acceleration of charged particles by an electrostatic wave propagating obliquely to a magnetic field vector B sub O
[IPPJ-671] 19 p3106 N84-29735

ELECTROSTATICS
Positron spectroscopy applied to the analysis of surfaces
[DE82-008836] 01 p0038 N84-10238
Analytical evaluation of the potential due to a uniformly charged planar triangular region
[AD-A130810] 01 p0138 N84-10907
The possible unifying effect of the dynamic theory
[DE83-014082] 02 p0301 N84-11973
High-sensitivity mass spectrometry with a tandem accelerator
[DE83-017914] 03 p0350 N84-12274
A model for chorus associated electrostatic bursts
[NASA-CR-174489] 03 p0432 N84-12832
High resolution ultraviolet laser spectroscopy of mercury and helium 06 p0800 N84-15214
Evaluation of type 2 fast packs for electrostatic discharge properties
[AD-A133158] 06 p0853 N84-15557
Introduction to the FORTRAN 14 programs Duvorol and Contact for the solution of 3 D elastostatic half-space contact problems with and without friction
[PB83-147421] 06 p0898 N84-15833
An accurate and economical finite element family for large order structural analysis
[CSIR-ME-1780] 07 p1015 N84-16584
Adaptive microwave reflector
08 p1112 N84-17235
System for producing high-resolution polarized and unpolarized beams with a tandem accelerator
[DE84-004054] 09 p1388 N84-19063
Particle simulation of drift waves in a sheared magnetic field
[DE84-004026] 09 p1393 N84-19093
Laser and plasma research
[AD-A136519] 09 p1397 N84-19125
Theory of asymmetric double layers
[AD-A136960] 10 p1573 N84-20311
The insulation of copper wire by the electrostatic coating process
[AD-A137715] 11 p1646 N84-20765
Energy levels and transition probabilities of low Z ions for electric field determination 11 p1736 N84-21325
Correlations between plasma variables and the deposition process of Si films from chlorosilanes in low pressure RF plasma of argon and hydrogen
[NASA-TM-83603] 11 p1737 N84-21330
Design desiderata for a laminar flow quadrupole-focused acceleration column
[DE84-006534] 12 p1903 N84-22395
Growth of electrically charged soot particles in flames
15 p2291 N84-24751
Science of adhesion
[PB84-176734] 16 p2473 N84-25852
Generation of broadband electrostatic noise by ion beam instabilities in the magnetotail
[NASA-CR-173643] 17 p2728 N84-27362
How much random sextupole field can we have in the presence of beam-beam interactions
[DE84-009867] 19 p3102 N84-29709
Electrostatic filtration of N2O4 for removal of solid and vapor contaminants 20 p3138 N84-29922
Two algorithms for the contact problem in elastostatics, 1982
[PB83-147678] 20 p3275 N84-30793
Relativistic vector sub p x vector sub b acceleration of charged particles by an obliquely propagating electrostatic wave
[IPPJ-680] 21 p3500 N84-32183
Galactic heavy-ion shielding using electrostatic fields
[NASA-TM-86265] 23 p3700 N84-33453
On stress analysis of a crack-layer
23 p3759 N84-33824
Electrostatic equations for large scale plasma simulation studies
[AD-A143640] 23 p3828 N84-34277

ELECTROSTRICTION
Targeted basic studies of ferroelectric and ferroelastic materials for piezoelectric transducer applications
[AD-A132136] 04 p0526 N84-13461

ELECTROTHERMAL ENGINES
NT ARC JET ENGINES
NT PLASMA ENGINES
NT RESISTOJET ENGINES
Investigation of a pulsed electrothermal thruster
[NASA-CR-168266] 03 p0343 N84-12227
The annular flow electrothermal ramjet
[NASA-CR-174704] 21 p3354 N84-31275
Improved heat exchanger for electrothermal devices
[NASA-CASE-LEW-14037-1] 22 p3542 N84-32425

ELEMENT ABUNDANCE
U ABUNDANCE

ELEMENTARY EXCITATIONS
NT EXCITONS
NT MAGNONS
NT PHONONS
NT PLASMONS
Manifestation of the Fermi resonance in surface polariton spectra
[NASA-TM-77386] 14 p2222 N84-24330
Band structure effects in the electronic properties of solids assessible in neutron scattering studies
[DE84-008557] 18 p2941 N84-28654
Elementary excitations and quasi-two-dimensional behaviour in a GaAs field effect transistor
[DE84-701190] 24 p3967 N84-35122

ELEMENTARY PARTICLE INTERACTIONS
NT ELECTRON CAPTURE
NT NUCLEAR CAPTURE
NT NUCLEON-NUCLEON INTERACTIONS
New method in elementary particle detection
[AD-A131238] 01 p0142 N84-10932
Amplitude analysis of elastic p-p scattering at 6 GeV/c at all t's
[DE83-015875] 02 p0291 N84-11909
Proceedings of the 16th LAMPF Users-Group Meeting
[DE83-013215] 03 p0382 N84-12488
Operation of the Brookhaven MPS Facility
[DE83-015383] 03 p0441 N84-12896
Revision of the statistical mechanics of phonons to include phonon line widths
[DE83-017229] 04 p0614 N84-14051
Activities in nuclear and high energy physics
08 p1231 N84-18043
Research in elementary particle physics
[DE84-006130] 12 p1903 N84-22392
Activities report of the Werner-Heisenberg Institute of Physics
[ISSN-0173-6256] 19 p3103 N84-29714
Particel substructure. A common theme of discovery in this century
[DE84-006776] 19 p3113 N84-29782
Flavor mixing and the six quark model
[USIP-84-08] 20 p3298 N84-30940
Activities in nuclear and high energy physics
[B8467321] 20 p3299 N84-30949
New method in elementary particle detection
[AD-A144057] 23 p3822 N84-34240
Search for excited quarks
[PREPRINT-383] 23 p3823 N84-34246
Testing the six quark sheme
[PREPRINT-402] 23 p3823 N84-34247
Activities in nuclear and high energy physics
23 p3824 N84-34250

ELEMENTARY PARTICLES
NT ALPHA PARTICLES
NT ANTINEUTRINOS
NT ANTIPARTICLES
NT ANTIPROTONS
NT BARYONS
NT BETA PARTICLES
NT BOSONS
NT CONDUCTION ELECTRONS
NT DEUTERONS
NT ELECTRONS
NT FAST NEUTRONS
NT FERMIONS
NT FREE ELECTRONS
NT GLUONS
NT HADRONS
NT HIGH ENERGY ELECTRONS
NT HOT ELECTRONS
NT LEPTONS
NT LIGHT BEAMS
NT MAGNETIC MONOPOLES
NT MESONS
NT MUONS
NT N ELECTRONS
NT NEUTRINOS
NT NEUTRON BEAMS
NT NEUTRONS
NT PARTONS
NT PHOTOELECTRONS
NT PHOTONS
NT PIONS
NT POSITRONS
NT PROTONS
NT QUARKS
NT SOLAR ELECTRONS
NT SOLAR NEUTRINOS
NT SOLAR PROTONS
NT THERMAL NEUTRONS
Theory of elementary particles
[DE83-015904] 03 p0437 N84-12871
Major detectors in elementary particle physics
[LBL-91-SUPPL] 06 p0910 N84-15910
Experience of the axial field spectrometer at the CERN ISR 06 p0910 N84-15912
The mathematical structure of elementary particles
[AD-A136295] 09 p1387 N84-19060
Physics, Computer Science and Mathematics Division
[DE84-003915] 09 p1416 N84-19278
Monte Carlo calculations of elementary particle properties 10 p1561 N84-20229
Research in elementary particle physics
[DE84-006130] 12 p1903 N84-22392
Research program in elementary particle theory
[DE84-006867] 14 p2223 N84-24338
Relativistic particle dynamics: Lagrangian proof of the no-interaction theorem
[DE84-009147] 19 p3102 N84-29707
Activities report of the Werner-Heisenberg Institute of Physics
[ISSN-0173-6256] 19 p3103 N84-29714
Particel substructure. A common theme of discovery in this century
[DE84-006776] 19 p3113 N84-29782
Research program in elementary particle theory
[DE84-011502] 20 p3297 N84-30933

ELEVATION
Mapping, charting and geodesy at the Defense Mapping Agency
[AD-A130344] 01 p0100 N84-10650
FEED (Field Exploitation of Elevation Data) evaluation
[AD-A131318] 02 p0277 N84-11812
Relative elevation determination from LANDSAT imagery 03 p0392 N84-12558
The future in terrain elevation data processing at the Defense Mapping Agency
[AD-A133483] 06 p0866 N84-15641
Prototype tidal data analysis for Mississippi Sound and adjacent areas
[AD-A134071] 06 p0883 N84-15744
A new derivation for the rough surface reflection coefficient and for the distribution of sea wave elevations
[AD-A134774] 08 p1145 N84-17453
FEED (Field exploitation of Elevation Data) software documentation
[AD-A137977] 12 p1879 N84-22248
Study and design of a cylindrical lens array antenna for wideband electronic scanning
[AD-A138808] 13 p1983 N84-22875
Geothermal resources of southern Idaho
[USGS-CIRC-866] 14 p2168 N84-23988
Contour-to-grid transformation: Development of a method for generation of a sparse grid structure out of terrain elevation contours
[FOA-C-30349-E1] 15 p2359 N84-25156
Principal facts, base station descriptions and plots for gravity stations on and near the Butte 1 degree x 2 degree quadrangle, Montana
[PB84-168103] 15 p2369 N84-25216
DEM (digital grid-point elevation models) synthesis from three-dimensional cartographic data
[AD-A140211] 16 p2510 N84-26109
Water resources data for Arkansas, water year 1982
[PB84-181296] 20 p3229 N84-30522
Superplasticity in thermomechanically processed high magnesium aluminum-magnesium alloys
[AD-A143164] 21 p3366 N84-31356
Cirques of the Marble Mountains, northwestern California 23 p3795 N84-34065

ELEVATION ANGLE
The effects of solar incidence angle over digital processing of LANDSAT data
[E84-10007] 01 p0099 N84-10641
A comparison of two extended Kalman filter algorithms for air-to-air passive ranging
[AD-A136838] 10 p1426 N84-19323

Evaluation of the effects of the seasonal variation of solar elevation angle and azimuth on the processes of digital filtering and thematic classification of relief units
[E84-10121] 14 p2167 N84-23980
Measurements of atmospheric effects on satellite links at very low elevation angle 15 p2323 N84-24948
Potential surface improvements by bump removal for 64-m antenna 22 p3573 N84-32627

ELEVATORS (CONTROL SURFACES)
Aircraft accident report - United Airlines Flight 2885, N8053U, McDonnell Douglas DC-8-54F, Detroit, Michigan, January 11, 1983
[PB83-910407] 04 p0481 N84-13168
Determination of elevator and rudder hinge forces on the Learjet model 55 aircraft 06 p0860 N84-15604
Aircraft accident report: Sierra Pacific Airlines, DHC-6-300, N361V, Hailey, Idaho, February 15, 1983
[PB84-910403] 12 p1767 N84-21525
Safety recommendations A-84-14 and -15 16 p2444 N84-25678
Advanced composite elevator for Boeing 727 aircraft. Volume 1: Technical summary
[NASA-CR-3290] 18 p2792 N84-27722

ELEVATORS (LIFTS)
Eyebolts for lift suspension
[NFL-DMA(A)-70] 20 p3195 N84-30292

ELEVONS
Analytical prediction of aerothermal environment in a wing-elevon cove --- space shuttle orbiter
[NASA-TM-85711] 03 p0370 N84-12412
Note on an accident to the Boulton Paul 120 VT 951 delta aircraft
[RAE-STRUCT-ACC-248] 17 p2603 N84-26677

ELIMINATION
Experimental and computational modeling of rarefaction wave eliminators suitable for the BRL 2.44 m shock tube
[AD-A131894] 03 p0338 N84-12194
Human stomach motor and evacuatory functions during antiorthostatic hypokinesia 20 p3253 N84-30649

ELLIPSES
Numerical analysis of boundary value problem of elliptic type by means penalty and the finite difference and its application to free boundary problem
[AD-A132805] 05 p0736 N84-14834
Computing tides, nutations and tidally-induced variations in the Earth's rotation rate for a rotating, elliptical Earth 07 p1030 N84-16675
Ultrasonic methods to study shadow boundaries of diffracting cracks. Ultrasonic caustics in NDE (Non-Destructive Evaluation)
[AD-A136839] 13 p1999 N84-22970
Preconditioning by fast direct methods for non-self-adjoint nonseparable elliptic equations
[AD-A139360] 14 p2219 N84-24316
The postprocessing technique in the finite element method the theory and experience
[AD-A140953] 18 p2925 N84-28551
An investigation of resonant optoacoustic cells
[PB83-251637] 18 p2929 N84-28572
A maximum principle for an elliptic system and applications to semilinear problems
[AD-A141600] 19 p3085 N84-29581
Development of real-time error ellipses as an indicator of Kalman filter performance
[AD-A143698] 23 p3812 N84-34174

ELLIPSOIDS
Non-Newtonian intrinsic viscosity of rigid ellipsoid solutions
[BLL-WH-570-(9091.9F)] 01 p0138 N84-10903
Radiation patterns of an antenna mounted on the off-mid section of an ellipsoid
[AD-A130956] 02 p0209 N84-11362
Ellipsoid algorithm variants in nonlinear programming
[AD-A132599] 05 p0735 N84-14826
Radiation patterns of an antenna mounted on the mid-section of an ellipsoid
[AD-A133203] 06 p0823 N84-15365
Central burst of simultaneously rotating and gravitating body 13 p1969 N84-22783
Ellipsoidal magnetostatic shield 17 p2638 N84-26877
Relationships between ellipsoid parameters 19 p3040 N84-29288

ELLIPSOMETERS
The study of thin films on semi-insulating gallium arsenide by ellipsometry
[AD-A131844] 03 p0452 N84-12972
Fast, self-nulling spectroscopic ellipsometer: Instrumentation and application, revision
[DE83-015531] 04 p0605 N84-13994
The use of Auger electron spectroscopy and ellipsometry in the study of corrosion inhibition 06 p0815 N84-15307
Automatic, self-nulling, spectral scanning ellipsometer: Software for the LSI-11 data acquisition system
[DE83-015007] 11 p1709 N84-21139
Solar-assisted hydrogen generation by photoelectrocatalysis: Electric birefringence and ellipsometric spectroscopy of the semiconductor/electrolyte interface
[PB84-169804] 15 p2288 N84-24731
Automatic, self-nulling, spectral scanning ellipsometer: Software for the LSI-11 data acquisition system
[LBL-15525] 16 p2543 N84-26320
Infrared ellipsometer method for determination of parameters of thin epitaxial structures with buried layer: Specimens with dull inactive surface 21 p3379 N84-31446

ELLIPTIC DIFFERENTIAL EQUATIONS
Block iterative methods for elliptic finite element equations
[AD-A129150] 01 p0129 N84-10841
On the superlinear Ambrosetti-Prodi problem
[AD-A130574] 01 p0130 N84-10849
Implications of analytical investigations about the semiconductor equations on device modeling programs
[AD-A130549] 01 p0130 N84-10851
Asymptotic behaviors of the solution of an elliptic equation with penalty terms
[AD-A130473] 01 p0131 N84-10858
Solving elliptic-parabolic problems
[AD-A133726] 05 p0734 N84-14822
Stabilization of solutions for a class of parabolic integro-differential equations
[AD-A132621] 05 p0736 N84-14837
Iterative techniques for the solution of elliptic finite difference equations 06 p0835 N84-15435
A portable vector-code for autonomous multigrid modules
[MC-NW-154/83] 07 p1065 N84-16914
Multigrid methods for problems with a small parameter in the highest derivative
[MC-NW-158/83] 07 p1066 N84-16920
A finite difference scheme for the equilibrium equations of elastic bodies
[NASA-CR-172293] 08 p1170 N84-17621
A multigrid method and a combined multigrid-conjugate gradient method for elliptic problems with strongly discontinuous coefficients in general domains
[PUBL-604-REV] 08 p1222 N84-17980
Adaptive grid generation using elliptic generating equations with precise coordinate controls
[AD-A137006] 10 p1570 N84-20290
Numerical methods for partial differential equations
[AD-A137624] 11 p1713 N84-21167
Generalization of the numerical Schwarz algorithm
[DE84-003735] 11 p1716 N84-21191
Systems of nonlinear algebraic equations arising in simulation of semiconductors devices
[DE84-006490] 11 p1716 N84-21195
Preconditioning by fast direct methods for non-self-adjoint nonseparable elliptic equations
[AD-A139360] 14 p2219 N84-24316
Generation of three dimensional grids through elliptic differential equations 16 p2491 N84-25983
Software development based on multigrid techniques
[GMD-84] 17 p2751 N84-27459
Numerical methods for nonlinear elliptic eigenvalue problems
[DE84-010408] 18 p2926 N84-28558
Spectral methods for exterior elliptic problems
[NASA-CR-172380] 19 p3082 N84-29560
Elliptic grid generation for three-dimensional geometries 20 p3168 N84-30117
Optimization of a numerical method to calculate elliptic flows
[DFVLR-FB-84-16] 20 p3187 N84-30252
Modified 5-point and 9-point schemes for the solution of the Vorticity- transport equation with cross derivatives
[AD-A142720] 20 p3284 N84-30851
Weighted inequalities and degenerate elliptic partial differential equations
[AD-A142895] 21 p3472 N84-32007
PLTMGC: A multi-grid continuation program for parameterized nonlinear elliptic systems
[DE84-010406] 21 p3474 N84-32017
Singularities connected with a trace on a Banach algebra 22 p3634 N84-33034
High-order sparse factorization methods for elliptic boundary value problems
[DE84-012582] 22 p3646 N84-33122
A multigrid finite element method 23 p3818 N84-34213
Iterative methods for elliptic problems and the discovery of Q
[AD-A144483] 24 p3952 N84-35022
The SLxE program for the solution of nonlinear systems for elliptic differential equations --- fluid mechanics
[REPT-23/83] 24 p3953 N84-35033

ELLIPTIC FUNCTIONS
A variational approach to superlinear elliptic problems
[AD-A134541] 07 p1063 N84-16892
On pairs of positive solutions for a class of semilinear elliptic problems
[AD-A141504] 19 p3084 N84-29574

ELLIPTIC INTEGRALS
U ELLIPTIC FUNCTIONS

ELLIPTICAL CYLINDERS
On the generation of vortical flow at hypersonic speeds over elliptical cones 03 p0323 N84-12114
Diffraction of a plane electromagnetic wave by an elliptic cylinder: The multi-origin technique
[PB83-166769] 06 p0827 N84-15390
Numerical simulation of autorotation 20 p3168 N84-30118

ELLIPTICAL GALAXIES
The behavior of cold gas in spheroidal galactic potentials 02 p0306 N84-12010
Simulations of galaxy mergers 03 p0464 N84-13054
The stability of elliptical stellar disks. Balanced disks
[PR-826] 09 p1385 N84-19043
The manifold of spheroidal galaxies 09 p1409 N84-19208
Quasars and galaxies with active nuclei 10 p1594 N84-20448
High resolution surface photometry of elliptical galaxies 17 p2776 N84-27625
Ultraviolet observations of normal galaxies 24 p3970 N84-35136
UV-bright stars in galactic globular clusters, their far-UV spectra and their contribution to the globular cluster luminosity 24 p3974 N84-35164

ELLIPTICAL ORBITS
NT APHELIONS
NT INTERPLANETARY TRANSFER ORBITS
NT PERIHELIONS
NT TRANSFER ORBITS
The flexural behavior of PACSAT (passive communication satellite) in orbit
[AD-A131406] 02 p0184 N84-11195
Stability of periodic oscillations of almost axisymmetric satellite in plane of elliptical orbit 17 p2650 N84-26945
Non-integrability of planar oscillation equation for satellite in elliptical orbit 21 p3489 N84-32109
The Venus Radar Mapper: Radar system design for highly elliptical orbits 23 p3782 N84-33986

ELLIPTICAL POLARIZATION
An analysis of pC-3 micropulsion in the geomagnetic field
[AD-A132443] 04 p0563 N84-13709

ELLIPTICITY
Brief note of the stress intensity factor of elliptical cracks
[PB83-216911] 06 p0862 N84-15618
Equations of small oscillations for inertial navigation system taking into account Earth's ellipsoidality 17 p2643 N84-26909
Three-dimensional turbulent boundary layers at biellipticai bodies in stream of compressible gas at some angle of attack 17 p2648 N84-26936

ELONGATION
Measurements of elongational viscometry using a fiber spinning technique. Part 1: Modifications to the Sangamo Schlumberger elongational viscometer model E4
[AD-A140002] 15 p2333 N84-25010
Development of methods of evaluation extensional properties of polymer solutions from measurements of shear
[AD-A140451] 16 p2472 N84-25845
Elastoplastic double-wall shells under intricate nonisothermal load 17 p2651 N84-26951
Suppression of asymmetric acid efflux and gravitropism in maize roots treated with auxin transport inhibitors of sodium orthovanadate
[NASA-CR-173634] 17 p2740 N84-27395
Effects of long-time elevated temperature exposures on hot-isostatically-pressed power-metallurgy Udimet 700 alloys with reduced cobalt contents
[NASA-TM-83632] 19 p2985 N84-28917
Environmental assisted fracture of cast and wrought steels in brine
[DE84-011870] 20 p3158 N84-30058

ELUTION
Application of the liquid column chromatography to the study of lubricating oils and esters separation 18 p2817 N84-27889
Multivariate curve resolution in liquid chromatography
[DE84-013797] 22 p3549 N84-32486

ELUTRIATION
U ELUTION

EMANATION
U EMISSION

EMBEDDED COMPUTER SYSTEMS
NT AIRBORNE/SPACEBORNE COMPUTERS

The use of the MASCOT philosophy for the construction of Ada programs
[AD-A137417] 10 p1563 N84-20239

Distributed processing tools definition. Volume 1: Hardware and software technologies for tightly-coupled distributed systems
[AD-A137686] 11 p1704 N84-21105

Distributed processing tools definition. Volume 2: Application of software engineering technology
[AD-A137687] 11 p1704 N84-21106

Adaptive control strategies for computer-controlled manipulators 13 p2023 N84-23114

Parallel image processing and image understanding
[AD-A142162] 19 p3042 N84-29300

SREM (Software Requirements Engineering Methodology) evaluation, volume 1
[AD-A141631] 19 p3077 N84-29525

SREM (Software Requirements Engineering Methodology) evaluation. Volume 2: Specifications and technical data
[AD-A141632] 19 p3078 N84-29526

Proceedings papers of the 2nd AFSC (Air Force Systems Command) Avionics Standardization Conference, volume 1
[AD-A142776] 21 p3329 N84-31121

The evolution of the JOVIAL/J73 language from definition to use
[AD-P003518] 21 p3329 N84-31122

JOVIAL language control procedures with a view toward Ada (Trademark)
[AD-P003522] 21 p3330 N84-31126

Feasibility assessment of JOVIAL to Ada (Trademark) translation
[AD-P003523] 21 p3330 N84-31127

The Multiple System OFP Support (MSOS) system, a Pre-PMRT capability for evaluating tactical software
[AD-P003524] 21 p3330 N84-31128

The NEBULA standard computer architecture
[AD-P003532] 21 p3331 N84-31136

The impact of NEBULA, MCF (Military Computer Family), and Ada (Trademark) on real-time embedded computer systems
[AD-P003534] 21 p3331 N84-31138

A programmable bus control interface
[AD-P003536] 21 p3332 N84-31140

MIL-STD-1750A microprocessor chip set development
[AD-P003548] 21 p3334 N84-31152

A high performance MIL-STD-1750A microprocessor
[AD-P003549] 21 p3334 N84-31153

MIL-STD-1750A as a spaceborne instruction set architecture
[AD-P003554] 21 p3334 N84-31158

Proceedings papers of the 2nd AFSC (Air Force Systems Command) Avionics Standardization Conference, volume 2
[AD-A142777] 21 p3335 N84-31165

An integrated approach to a successful embedded computer resource project
[AD-P003574] 21 p3338 N84-31179

Architecture, hardware and software issues in fielding the next generation DOD processors
[AD-P003581] 21 p3339 N84-31186

A corporate approach to an embedded software development and support standard
[AD-P003589] 21 p3340 N84-31194

Proceedings of the 2nd AFSC (Air Force Systems Command) Avionics Standardization Conference. Volume 3: Embedded computer resources governing documents
[AD-A142778] 21 p3342 N84-31201

Proceedings of the 2nd AFSC (Air Force Systems Command) Avionics Standardization Conference. Volume 4: Tutorial: MIL-STD-1553 multiplex data bus
[AD-A142779] 21 p3342 N84-31202

Proceedings of the 2nd AFSC (Air Force Systems Command) Avionics Standardization Conference. Volume 5: Tutorial: MIL-STD-1589 JOVIAL (J-73) high order language
[AD-A142780] 21 p3342 N84-31203

Proceedings of the 2nd AFSC (Air Force Systems Command) Avionics Standardization Conference. Volume 6: Tutorial: MIL-STD-1679 weapon system software development
[AD-A142781] 21 p3342 N84-31204

Proceedings of the 2nd AFSC (Air Force Systems Command) Avionics Standardization Conference. Volume 7: Tutorial: MIL-STD-1750, 16 bit instruction set architecture
[AD-A142782] 21 p3342 N84-31205

Proceedings of the 2nd AFSC (Air Force Systems Command) Avionics Standardization Conference. Volume 8: Tutorial: MIL-STD-1815 Ada high order language
[AD-A142783] 21 p3342 N84-31206

Proceedings of the 2nd AFSC (Air Force Systems Command) Avionics Standardization Conference. Volume 9: Tutorial: Navy case study implementation of military standards
[AD-A142784] 21 p3342 N84-31207

Some management initiatives to improve embedded commercial computer and training device life cycle support
[AD-P003494] 21 p3514 N84-32260

Editing by example 22 p3639 N84-33070

Ada (trademark) training curriculum. Advanced Ada Topics 1305, teacher's guide exercises, volume 1
[AD-A144498] 24 p3947 N84-34994

EMBEDDING

Directionally efficient robust estimators of location via exponential embedding
[AD-A130525] 01 p0130 N84-10854

Embedding methods for the steady Euler equations
[NASA-TM-83481] 02 p0279 N84-11831

Planar embedding of planar graphs
[AD-A132538] 04 p0579 N84-13820

Fixity of members embedded in concrete
[AD-A138862] 13 p1974 N84-22810

Ada (trademark) for business and other non-DOD applications
[AD-P003425] 20 p3271 N84-30757

Embedded information transfer technology assessment
[AD-A142649] 21 p3391 N84-31518

Embedded system design with Ada as the system design language
[AD-A144232] 24 p3945 N84-34979

EMBOLISMS

NT AEROEMBOLISM

EMBRITTLEMENT

Metal-induced embrittlement of high purity 4140 steel by indium or indium-tin eutectic alloy 02 p0192 N84-11250

Helium damage in austenitic stainless steels
[DE83-017494] 03 p0355 N84-12309

A molecular orbital model of intergranular embrittlement
[AD-A133056] 05 p0655 N84-14307

Surface embrittlement of ductile polymers: A fracture mechanics approach 05 p0657 N84-14321

Embrittlement of steels due to galvanizing or coating with zinc paint: An investigation of embrittlement in welding or heating operations — liquid metal embrittlement
[AERE-TR-4774] 06 p0805 N84-15244

Effects of hydrogen on strength and ductility of tantalum 06 p0807 N84-15260

Grain boundary segregation and cavity formation in creep embrittled Cr-Mo steels 06 p0817 N84-15320

Influence of the tramp elements on the properties of steel, metallurgical processes for controlling the contents of tramp elements
[BMFT-FB-T-83-189] 07 p0977 N84-16331

A detailed comparison of hydrogen and mercury embrittlement in Monel 400
[AD-A139119] 14 p2127 N84-23753

The neutron induced embrittlement of reactor pressure vessel steels and ferritic alloys
[AD-B080746] 15 p2295 N84-24770

Surface embrittlement of polyethylene pipe grade resins
[PB84-181973] 17 p2627 N84-26811

Ductile-brittle transition temperature measurement of temper embrittled Ni-Cr steels by means of small punch tests
[DE84-012833] 20 p3158 N84-30054

Neutron embrittlement of the reactor vessel in Borssele as determined from Charpy specimens
[S/T-REPT-VOL-1-NO-4] 20 p3204 N84-30352

Crack kinetics of the nickel-hydrogen system 21 p3416 N84-31665

Embrittlement of 4340 type steel by liquid lead and antimony and lead-antimony solutions
[AD-A143785] 23 p3718 N84-33567

EMBRYOLOGY

Developing higher plant systems in space 02 p0263 N84-11727

Polarity of the amphibian egg 02 p0263 N84-11731

Effects of simulated weightlessness on mammalian development. Part 1: Development of clinostat for mammalian tissue culture and use in studies on meiotic maturation of mouse oocytes 09 p1357 N84-18868

Effect of centrifuging on survival of early larvae of common frogs 15 p2377 N84-25266

Glycosaminoglycans in fetal bone mineralization 23 p3809 N84-34156

EMBRYOS

Growth and differentiation of mammalian embryonic tissues exposed to hypergravity in vivo and in vitro 09 p1357 N84-18869

Rodent CNS neuron development: Timing of cell birth and death 09 p1357 N84-18870

Failure of vincristine induce twinning 09 p1358 N84-18872

Twinning of amphibian embryos by centrifugation 09 p1358 N84-18873

Avian embryonic development in hyperdynamic environments
[NASA-CR-173339] 09 p1360 N84-18885

Effect of centrifuging on survival of early larvae of common frogs 15 p2377 N84-25266

EMERGENCIES

Potential applications of cable television (CATV) to the FEMA (Federal Emergency Management Agency) communications mission
[AD-A131326] 02 p0209 N84-11367

Aircraft crew diet in emergency situations 02 p0259 N84-11896

Human behavior 04 p0511 N84-13352

A study on sound guidance for evacuation: Effect of megaphoned evacuation guidance in smoke 04 p0512 N84-13356

The MGM Grand Hotel fire: A case study of human reaction to fire 04 p0512 N84-13358

Project People 2: An extended interview study of behavior response patterns in health care facility fire incidents 04 p0512 N84-13359

Emergency evacuation flow models 04 p0512 N84-13360

Escape and rescue model 04 p0512 N84-13361

Proceedings of the 3rd Tripartite Conference on Submarine Medicine: France, United Kingdom and the United States
[AD-A133150] 06 p0889 N84-15777

Rate of initial recovery and subsequent radar monitoring performance following a simulated emergency involving startle
[AD-A133602] 06 p0892 N84-15795

Appraisal of scientific resources for emergency management
[AD-A133285] 06 p0933 N84-16062

System for the management of trauma and emergency surgery in space
[NASA-CR-175439] 11 p1693 N84-21045

Blast loadings of emergency exits for air-raid shelters type E
[FOA-C-20530-D4(D6)] 15 p2350 N84-25103

Reporting of indication data
[FOA-C-30352-E] 15 p2407 N84-25446

Aeromedical support of helicopter medical evacuation and rescue operations 16 p2537 N84-26289

Third World Congress on Emergency and Disaster Medicine
[FOA-C-52005-H4] 20 p3260 N84-30692

Emergency handling of compressed air casualties
[AD-A143598] 23 p3810 N84-34157

The role of information technology in emergency management
[GPO-29-457] 23 p3834 N84-34319

EMERGENCY LIFE SUSTAINING SYSTEMS

Cabin air quality
[GPO-29-522] 20 p3263 N84-30702

EMERGENCY LOCATOR TRANSMITTERS

Performance of alkaline battery cells used in emergency locator transmitters
[NASA-TP-2277] 11 p1646 N84-20759

EMISSION

NT ACOUSTIC EMISSION
NT BIOLUMINESCENCE
NT CATHODOLUMINESCENCE
NT CHEMILUMINESCENCE
NT CN EMISSION
NT ELECTROLUMINESCENCE
NT ELECTRON EMISSION
NT EXHAUST EMISSION
NT FIELD EMISSION
NT FLUORESCENCE
NT HYDROXYL EMISSION
NT ION EMISSION
NT LIGHT EMISSION
NT LUMINESCENCE
NT MICROWAVE EMISSION
NT NEUTRON EMISSION
NT OPTICAL RESONANCE
NT PARTICLE EMISSION
NT PHOSPHORESCENCE
NT PHOTOELECTRIC EFFECT
NT PHOTOELECTRIC EMISSION
NT PHOTOIONIZATION
NT PHOTOLUMINESCENCE
NT RADIO BURSTS
NT RADIO EMISSION
NT RESONANCE FLUORESCENCE
NT SECONDARY EMISSION
NT SOLAR RADIO BURSTS
NT SOLAR RADIO EMISSION

NT SPECTRAL EMISSION
NT SPONTANEOUS EMISSION
NT STIMULATED EMISSION
NT THERMAL EMISSION
NT THERMIONIC EMISSION
NT THERMOLUMINESCENCE
NT WATER MASERS
NT X RAY FLUORESCENCE
Development of instrumentation for monitoring carbon fiber emission
[PB83-233726] 03 p0378 N84-12460
Fracto-emission from polymers
[AD-A132462] 04 p0506 N84-13314
Broadband electromagnetic interference testing for vehicles and electrical subsystems - noncommunications
[AD-A134067] 05 p0666 N84-14381
High energy electromagnetic shower position measurement by a fine grained scintillation hodoscope
06 p0912 N84-15928
A measurement of the response of an SCG1-C scintillation glass shower detector to 2-17.5 GeV positrons 06 p0913 N84-15930
Photoluminescence excitation of the 1.441-eV cation antisite emission in p-type GaAs
[AD-A134332] 07 p1080 N84-17021
Emissions and efficiency of agricultural diesels using low-proof ethanol as supplement fuel
[DE84-003931] 09 p1325 N84-18659
Regional acid deposition: Models and physical processes
[PB84-115997] 10 p1532 N84-20035
The luminosity function of galaxies in CO-12
13 p2071 N84-23424
Indicators of hazard for polycyclic organic matter
[PB84-167493] 15 p2288 N84-24730
A tentative unified sea model for scattering and emission 17 p2715 N84-27285
Impact of vegetative hydrocarbon emissions on ambient ozone levels and control program development
[DE84-008515] 18 p2878 N84-28273
Development of air sulfur concentration in Finland through the year 2000
[ISBN-951-697-178-4] 19 p3052 N84-29366
Changing pattern of carbon dioxide emissions
[DE84-010086] 19 p3052 N84-29371
Studies of X-ray clusters of galaxies/intergalactic plasmas
[NASA-CR-173825] 20 p3319 N84-31068
Wall quench and flammability limit effects on exhaust hydrocarbon emission
[DE84-009754] 21 p3359 N84-31307
Vibrational spectra of CO on Ni(100) studied by infrared emission spectroscopy
[DE84-009246] 21 p3362 N84-31327
Atmospheric retention of anthrogenic CO2: Scenario dependence of the airborne fraction
[DE84-012079] 21 p3448 N84-31879
Locating and estimating air emissions from sources of chloroform
[PB84-200617] 22 p3619 N84-32935

EMISSION SPECTRA
Continued investigation of the atomic physics of flashlamp pumped cesium-neon lasers
[AD-A130223] 01 p0086 N84-10561
A study of the angular radiation of Smith-Purcell radiation
[AD-A130095] 01 p0141 N84-10925
Radiation and laser potential of homo and heteronuclear rare-gas diatomic molecules
[AD-A130093] 01 p0141 N84-10929
X-ray emission in heavy-ion collisions
[DE83-008776] 01 p0144 N84-10946
The characteristics of OH/IR objects, infrared stars with OH maser emission
[IA-PUBL-95] 01 p0164 N84-11078
Optical emission and mass spectrometric studies of plasma deposition
[DE83-016700] 02 p0191 N84-11243
Spectroscopic studies of lasing transitions in the diatomic mercury halides
[AD-A131466] 02 p0226 N84-11481
A novel 15.9-micron source
[DE83-015234] 02 p0227 N84-11490
X-ray and optical studies of extragalactic X-ray emitters 02 p0306 N84-12024
Infrared characteristics of gas plumes
[AD-A131796] 03 p0349 N84-12269
Laser interaction with metallic surfaces
[AD-A126269] 03 p0378 N84-12464
Time-resolved spectral measurements above 80 A
[DE83-015616] 03 p0446 N84-12933
Implications of heavy-ion-induced satellite X-ray emission. Part 2: Production of K and L X-rays by 0.9 to 2.6 MeV/u Ar ions in thick targets of V, Cu, Nb, Ta, and Pt
[DE83-015681] 03 p0453 N84-12982
Observational evidence for solar wind acceleration at the base of coronal holes 03 p0468 N84-13082
Theory of winds in late-type evolved and pre-main-sequence stars 03 p0468 N84-13085
The winds and coronae of early-type stars
03 p0469 N84-13086
Characterization of high-temperature vapor-phase species and vapor-solid interactions of import to combustion and gasification processes in the energy technologies
[DE83-015166] 04 p0494 N84-13242
Vibrational spectroscopy of chemisorbed molecules by infrared emission
[DE84-000956] 04 p0602 N84-13973
Sounding rocket XUV observations of Capella
04 p0618 N84-14078
Studies of cataclysmic variables
04 p0619 N84-14084
Extragalactic emission-line objects and the Michigan-Tololo survey 04 p0622 N84-14101
Physics of the synchrotron model of cosmic gamma-ray bursts
[DE84-000917] 04 p0622 N84-14104
EPR spectroscopy of thermally initiated free radicals in RDX
[AD-A133976] 05 p0646 N84-14251
Periodic spectral variation in Cygnus X-2 and Scorpius X-1 06 p0937 N84-16088
Observations of the unidentified 3.3 microns emission feature in compact HII regions 06 p0937 N84-16089
Measurements of chromospheric densities and geometrical extensions of late-type giant and super-giant stars
[NASA-CR-175236] 07 p1089 N84-17079
Theoretical studies of solar-pumped lasers
[NASA-CR-173283] 08 p1164 N84-17576
Observations of emission in bright, low redshift quasars
[NASA-CR-175376] 08 p1242 N84-18122
Phase transformation study of Cu2S
[AD-A135587] 09 p1279 N84-18352
Relativistic broadening near cyclotron resonance
[AD-A136224] 09 p1391 N84-19084
Line width and line shape analysis in the inductively coupled plasma by high resolution Fourier transform spectrometry
[DE84-004358] 10 p1457 N84-19513
Millimeter wavelength aperture synthesis maps of the star-forming region W58 10 p1595 N84-20455
Molecular clouds and galactic spiral structure
[NASA-TP-2288] 10 p1595 N84-20457
Molecular clouds and galactic spiral structure
10 p1596 N84-20459
Possible detection of thermal cyclotron lines from small sources within solar active regions
[AD-A136218] 10 p1597 N84-20466
Fluorescence and electron energy loss cross sections in mercuric bromide
[AD-A137153] 11 p1629 N84-20657
Spectroscopic studies of the products of the reactions of excited noble-gas atoms
[AD-A137750] 11 p1730 N84-21284
Evaluation of excitation cross sections by plasma spectroscopy 11 p1735 N84-21315
International ultraviolet explorer observations of Wolf-Rayet binaries: Wind structures
11 p1757 N84-21467
Laboratory infrared studies relevant to Io: A satellite to the planet Jupiter
[NASA-CR-173378] 12 p1922 N84-22522
The plumes of IO: A detection of solid sulfur dioxide particles
[NASA-CR-175414] 12 p1922 N84-22523
Ultraviolet OH emissions in H2-air diffusion flames
13 p1942 N84-22629
Utilizing light focusing by gas discharge medium for stabilization of emission power of He-Ne laser at wavelength of 6401 angstroms
13 p1969 N84-22779
Time-resolved spectrophotometry of the nova-like cataclysmic variables RW triangulum and UX Ursa Majoris 13 p2069 N84-23408
H alpha and TiO band observations of RS CVn stars
13 p2069 N84-23410
Far-IR spectroscopy of the galactic center: Neutral and ionized gas in the central 10 pc of the galaxy
[NASA-CR-166510] 13 p2070 N84-23411
Infrared astronomy research and high altitude observations
[NASA-CR-173526] 13 p2070 N84-23413
Publications resulting from Infrared Astronomy Research and High Altitude Observations
[NASA-CR-173525] 13 p2070 N84-23414
Shock waves and mass outflow in the Orion molecular cloud: Observations of far-infrared emission lines of carbon monoxide, hydroxyl and ammonia
13 p2071 N84-23423
Study of gain, bandwidth, and tunability of a millimeter-wave free-electron laser operating in the collective regime
[AD-A139285] 14 p2151 N84-23884
On the origin of Be phenomenon
15 p2422 N84-25552
V 505 Monocerotis: New binary shell star
15 p2423 N84-25553
LHEA contributions to the Future of Ultraviolet Astronomy Based on Six Years of IUE Research
[NASA-TM-86098] 15 p2423 N84-25559
Ultraviolet and X-ray observations of active galactic nuclei: Constraints on models of the broad emission line region 15 p2423 N84-25560
Very recent IUE observations of 2 BL Lacertae orbits
15 p2424 N84-25561
Detection of shocked atomic gas in the Kleinmann-Low nebula
[NASA-TM-85967] 16 p2574 N84-26523
Cosmic rays and the emission line regions of active galactic nuclei
[NASA-TM-86110] 16 p2582 N84-26561
Volatilization-excitation phenomena and efficiency of spectrochemical buffers in the analysis of geological samples. 1: The action of the mixture Li2CO3 graphite
[JEN-555] 17 p2729 N84-27369
Seyfert galaxy narrow-line regions: A spectroscopic investigation 17 p2774 N84-27612
Determination of the Io heat flow. 1: Eclipse observations
[NASA-CR-173631] 17 p2774 N84-27614
The 10 plasma torus: Its structure and sulfur emission spectra 17 p2776 N84-27626
On Io, all that flickers is not cold
[NASA-CR-173447] 17 p2777 N84-27631
Emission model of gamma-ray bursts
[NASA-CR-173629] 17 p2781 N84-27656
Long range coherence in free electron lasers
[NASA-CR-173678] 18 p2845 N84-28066
Experimental and theoretical studies of laser propulsion phenomenology
[AD-A140995] 18 p2846 N84-28069
The behaviour of the 3.28 micron dust feature in NGC 2024 18 p2949 N84-28696
The 3.3 micron mapping of NGC 7027
18 p2949 N84-28697
Origins of the 3.28 micron dust emission feature
18 p2949 N84-28698
Far infrared extinction coefficients of minerals of interest for astronomical observations 18 p2949 N84-28700
Study of emission spectrum of tea CO2 lasers with intracavity absorber 21 p3486 N84-32094
How useful are odd-integer half-harmonics
[DE84-012392] 21 p3501 N84-32190
Nonthermal effects on the diagnostics of a collapsing gas shell Z-pinch
[DE84-009996] 21 p3502 N84-32199
The physical nature of the symbiotic stars
21 p3524 N84-32325
The kinematics of the emission line gas in quasars and active galactic nuclei 21 p3524 N84-32326
Studies of low-mass star formation with the large deployable reflector
[NASA-TM-85960] 21 p3524 N84-32328
Three-dimensional model for fusion processes
[DE84-011731] 21 p3526 N84-32339
Relation of vertical intensity profiles for neutral atom lines to analyte atomization behavior in inductively coupled plasmas
[DE84-014126] 22 p3659 N84-33194
Search for emission lines in the gaseous halo of edge-on galaxies
[NASA-CR-173968] 23 p3838 N84-34349
A modeling analysis program for the JPL Table Mountain Io sodium cloud data
[NASA-CR-173971] 23 p3844 N84-34386
Analysis of experiments on X-ray emission from laser-irradiated targets
[DE84-751157] 24 p3909 N84-34761
The research and fabrication of electronic materials and the establishment of characterization center of electronic materials 24 p3958 N84-35063
Two density components in symbiotic stars
24 p3979 N84-35208

EMISSIVITY
Thermal property measurement techniques and some results for CdTe
[AD-A133899] 05 p0753 N84-14936
Snow thickness and brightness temperature on multi-year ice
[AD-A133940] 06 p0884 N84-15747

Infrared heating
[BLL-OA-TRANS-3121-(6196.3)] 08 p1154 N84-17512
Remote sensing of sea ice --- Nimbus 7 scanning multichannel microwave radiometer (SMMR) 08 p1176 N84-17664
Accurate evaluation of homogenous and nonhomogeneous gas emissivities
[NASA-CR-173307] 09 p1277 N84-18340

EMISSOGRAPHS
U RECORDING INSTRUMENTS

EMITTANCE
Emittance calculations for the Stanford linear collider injector
[DE83-011851] 02 p0290 N84-11904
Measurements of the emittance and current density profile of the beam produced by the ATA injector
[DE83-016522] 03 p0434 N84-12848
Brighter H(-) source for the intense pulsed neutron source accelerator system
[DE84-003608] 07 p1072 N84-16965
Normalized emittance of SITEX negative ion source
[DE84-003285] 07 p1072 N84-16967
Measurement of alpha/epsilon ratio by using a Sun pointing satellite Tansei 4 10 p1446 N84-19447
Optical properties of melting snow, 1 15 p2354 N84-25122

EMITTERS
NT THERMIONIC CATHODES
NT THERMIONIC EMITTERS
Effects of simultaneous phosphorus and arsenic diffusions on emitter push and dislocation generation
[AD-A132331] 04 p0612 N84-14042
Voltage controlling mechanisms in low resistivity silicon solar cells: A unified approach
[NASA-TM-83612] 11 p1673 N84-20916
Preliminary design of a 10-kW thermophotovoltaic system for space applications
[NASA-TM-83768] 22 p3543 N84-32427
High power microwave generator
[DE84-014230] 22 p3590 N84-32738

EMOTIONS
Stress assessment through voice analysis
[AD-A132577] 04 p0573 N84-13773

EMPENNAGE
U TAIL ASSEMBLIES

EMPLOYEE RELATIONS
Incentives for controlling the performance of high technology and professional employees
[AD-A134074] 06 p0933 N84-16061
Toward an interpersonal paradigm for superior-subordinate communication
[AD-A135863] 10 p1551 N84-20166

EMPLOYMENT
The impact of robotics on employment
[GPO-21-160] 05 p0715 N84-14684
Expectations, job perceptions and disconfirmation among Air Force Academy graduates
[AD-P003259] 18 p2906 N84-28426

EMULSIONS
NT PHOTOGRAPHIC EMULSIONS
Vehicle-emission characteristics using mechanically emulsified alcohol/diesel fuels
[DE83-016012] 03 p0406 N84-12656
Diffusion measurements in microemulsions
[AD-A133801] 05 p0648 N84-14265
Development of quantitative infrared analysis for monitoring water and emulsifying agents in fire-resistant microemulsion diesel fuels
[AD-A133242] 06 p0812 N84-15286
Nonuniqueness and stability of the configuration of flow of immiscible fluids with different viscosities
[AD-P002937] 14 p2196 N84-24177
Method of making fine-grained triaminotrinitrobenzene
[DE84-012754] 21 p3374 N84-31413

ENAMELS
A vibration damping treatment for high temperature gas turbine applications 10 p1514 N84-19912
Performance criteria for restoration coatings for porcelain enamel surfaces
[PB84-141787] 11 p1638 N84-20709
MM&T-Ceramic metal substrates for hybrid electronics: Handbook
[AD-A140689] 17 p2623 N84-26790
Features of behaviour of gas bubbles in molten oxide films during enamelling
[BLL-M-35672-(5828.4)] 22 p3553 N84-32496

ENCAPSULATING
Application of image processing technology to problems in manuscript encapsulation --- Codex Hammer
[NASA-CR-173200] 07 p1007 N84-16528
Growth of cadmium telluride by pulling under liquid encapsulation
[AD-A136842] 10 p1589 N84-20412
Module degradation catalyzed by metal-encapsulation reactions 12 p1839 N84-21989
Chemical bonding technology for terrestrial photovoltaic modules
[NASA-CR-173460] 12 p1842 N84-22008
Research and development on the encapsulation of solar cells with improved potting and cover materials
[BMFT-FB-T-83-309] 15 p2363 N84-25175
Investigation of test methods, material properties, and processes for solar cell encapsulants
[NASA-CR-173755] 18 p2868 N84-28209
Photovoltaic module encapsulation design and materials section, volume 2
[NASA-CR-173902] 23 p3786 N84-34013
Investigation of test methods, material properties and processes for solar cell encapsulants
[NASA-CR-173940] 23 p3789 N84-34029
Encapsulated multifunction corrosion inhibitive primer
[AD-A144311] 24 p3889 N84-34626

ENCLOSURE
Geothermal Elastomeric Materials Technology Transfer (GEM-TT) Program
[DE83-013118] 01 p0050 N84-10325
Calculations of wall fire spread in an enclosure
[PB84-123165] 09 p1297 N84-18481
Experimental natural convective studies within a compound parabolic concentrator enclosure
[DE84-006967] 19 p3025 N84-29184

ENCLOSURES
Significance of a wall effect in enclosures with growing fires
[PB83-235671] 02 p0192 N84-11247
Experimental determination of the particle motions associated with the low order acoustic modes in enclosures
[NASA-CR-174542] 02 p0287 N84-11882
Modeling of compartment fires 04 p0512 N84-13364
Hazardous conditions in single enclosures subjected to fire
[FOA-C-20524-D6] 15 p2305 N84-24831
Natural convection in porous media: An experimental and numerical study for vertical annular and rectangular enclosures 22 p3592 N84-32744

ENCODERS
U CODERS

ENCODING
U CODING

END MORAINES
U GLACIAL DRIFT

END PLATES
Welding deformations and residual stresses due to circumferential welding of cylindrical shells and hemispherical end plates
[BLL-DRIC-T-6968-(3623.66)] 06 p0851 N84-15549

END-TO-END DATA SYSTEMS
NT NEEDS (DATA SYSTEM)
Infrared Astronomical Satellite (IRAS) end-to-end data system 05 p0725 N84-14763
Tracking ocean wave spectrum from SAR images 17 p2714 N84-27277

ENDFIRE ARRAYS
NT YAGI ANTENNAS

ENDOCRINE GLANDS
NT ADRENAL GLAND
NT PARATHYROID GLAND
NT PITUITARY GLAND
NT THYROID GLAND

ENDOCRINE SECRETIONS
NT ADRENOCORTICOTROPIN (ACTH)
NT ALDOSTERONE
NT ESTROGENS
NT HORMONES
NT INSULIN
NT PROSTAGLANDINS
Mouse adrenal corticosterone content during prolonged exposure to high-intensity stationary magnetic field 15 p2378 N84-25269
Effects of insulin and hydrocortisone on energy metabolism in rats irradiated with fast, 60 MeV neutrons 22 p3630 N84-33002

ENDOCRINE SYSTEMS
Effect of eleuterococcus extract on recovery processes in rats following seven-day hypokinesia 02 p0260 N84-11706
Water immersion and its computer simulation as analogs of weightlessness
[NASA-CR-171746] 08 p1200 N84-17821

ENDOCRINOLOGY
Dynamics of changes in metabolic and endocrine processes in helicopter crews during commercial flights 15 p2375 N84-25254

ENDOLYMPH
An unusual toxicological property of alcohol: The density effect on the organ of balance 22 p3632 N84-33016

ENDOTHERMIC REACTIONS
Investigation of the dynamics and threshold behavior of endothermic negative ion-neutral reactions
[DE84-001389] 04 p0602 N84-13975
High pressure melting and crystallization of Nylon-11
[AD-A138858] 13 p1964 N84-22760

ENDURANCE
Upper to lower body muscular strength and endurance ratios for women and men
[AD-A143821] 23 p3811 N84-34168

ENERGETIC PARTICLES
NT ARGON PLASMA
NT BETA PARTICLES
NT CESIUM PLASMA
NT COLD PLASMAS
NT COLLISIONAL PLASMAS
NT COLLISIONLESS PLASMAS
NT CONDUCTION ELECTRONS
NT COSMIC PLASMA
NT CYLINDRICAL PLASMAS
NT DENSE PLASMAS
NT ELECTRON PLASMA
NT ELECTRONS
NT HELIUM PLASMA
NT HIGH ENERGY ELECTRONS
NT HIGH TEMPERATURE PLASMAS
NT HOT ELECTRONS
NT LASER PLASMAS
NT METALLIC PLASMAS
NT N ELECTRONS
NT NONEQUILIBRIUM PLASMAS
NT NONUNIFORM PLASMAS
NT NUCLEI (NUCLEAR PHYSICS)
NT OXYGEN PLASMA
NT PLASMA FOCUS
NT PLASMAS (PHYSICS)
NT RELATIVISTIC PLASMAS
NT ROTATING PLASMAS
NT SOLAR WIND
NT STELLAR WINDS
NT STRONGLY COUPLED PLASMAS
NT THERMAL PLASMAS
Solar Wind Five
[NASA-CP-2280] 03 p0466 N84-13067
Survey of He(+)/He(2+) abundance ratios in energetic particle events 03 p0474 N84-13117
Fast magnetospheric echoes of energetic electron beams 05 p0636 N84-14187
Surface and near-surface analysis of diamond by RBS 06 p0814 N84-15302
Non-stochastic acceleration of protons in the magnetic neutral sheet
[IPPJ-646] 06 p0919 N84-15975
Intermediate energy proton stopping power for hydrogen molecules and monoatomic helium gas 07 p1071 N84-16955
The isotopic composition of energetic particles emitted from a large solar flare 08 p1245 N84-18140
The ISPM energetic panel particle composition experiment 09 p1261 N84-18233
The ISPM cosmic-ray and solar-particle investigation 09 p1262 N84-18236
Research in space physics at the University of Iowa, 1982
[NASA-CR-175411] 11 p1754 N84-21447
Cosmic ray exposure ages of iron meteorites, complex irradiation and the constancy of cosmic ray flux in the past 11 p1755 N84-21455
Data reduction and analysis for ISEE-A and -B energetic particles flux experiment and ISEE-C electron and X-ray experiments
[NASA-CR-175220] 11 p1760 N84-21486
Acceleration and confinement of energetic particles in the 7 June 1980 solar flare
[NASA-CR-173545] 16 p2580 N84-26550
The galactic acceleration of ultrahigh energy cosmic rays
[DE84-012442] 20 p3320 N84-31080
Energetic particle sounding at the magnetopause and implications for magnetic reconnection
[NASA-CR-173963] 23 p3799 N84-34086
Dynamics and energetics of the South Pacific convergence zone during FGGE SOP-1 24 p3926 N84-34850

ENERGY
WECS - load controlled pitch - variable load conversion to heat
[DE84-005328] 11 p1674 N84-20922
Measurement of flux density of sound energy 17 p2638 N84-26874

ENERGY ABSORPTION
NT ELECTROMAGNETIC ABSORPTION
NT INFRARED ABSORPTION
NT MOLECULAR ABSORPTION
NT MULTIPHOTON ABSORPTION
NT PHOTOABSORPTION

NT THERMAL ABSORPTION
NT THERMALIZATION (ENERGY ABSORPTION)
NT ULTRAVIOLET ABSORPTION
NT X RAY ABSORPTION
Solid impingement erosion mechanisms and characterization of erosion resistance of ductile metals
[NASA-TM-83492] 03 p0352 N84-12287
Detailed modeling of microwave energy deposition in EBT devices
[DE83-017496] 03 p0449 N84-12952
Effects of long-term low-level radiofrequency radiation exposure on rats. Volume 2: Average SAR and SAR distribution in man exposed to 450-MHz RFR
[AD-A135455] 09 p1361 N84-18891
Influence of a plasma during laser welding
[DE84-004414] 10 p1502 N84-19820
Crew survivable helicopter undercarriage
[AD-A137770] 11 p1606 N84-20517
Intensity and absorbed-power distribution in a cylindrical solar-pumped dye laser
[NASA-TP-2321] 14 p2150 N84-23878
Impact resistance of fiber composites: Energy absorbing mechanisms and environmental effects
[NASA-TM-83594] 15 p2284 N84-24712
Channel cooling by turbulent convective mixing
[AD-A139724] 15 p2410 N84-25466
Preliminary evaluation of waveguide vibration absorbers
[AD-A140743] 17 p2680 N84-27070
Design and development of an automatically controlled variable-load energy absorber
[AD-A142683] 20 p3128 N84-29868
Impact dynamics research on composite transport structures 20 p3146 N84-29975
Shock wave absorber having apertured plate
[DE84-011271] 20 p3203 N84-30345
Non-geometrical optics investigation of mode conversion in weakly relativistic inhomogeneous plasmas
[DE84-012396] 20 p3306 N84-31002
Quantum well multijunction photovoltaic cell
[DE84-011113] 21 p3393 N84-31529
Measurement of the absorption coefficient using the sound-intensity technique
[NASA-CR-173848] 21 p3490 N84-32115
Energy-absorbing earcup engineering feasibility evaluation
[AD-A144179] 24 p3938 N84-34924

ENERGY ABSORPTION FILMS
Photovoltaic power conditioning subsystem: State of the art and development opportunities
[NASA-CR-173458] 12 p1842 N84-22009
Photoacoustic imaging
[AD-A139298] 14 p2224 N84-24350
An investigation into polymer design and synthesis for infrared energy absorption
[AD-A141265] 18 p2818 N84-27895
Photovoltaic power system for satellite Earth stations in remote areas: Project status and design description
[NASA-TM-83789] 23 p3730 N84-33642

ENERGY BANDS
NT CONDUCTION BANDS
NT FORBIDDEN BANDS
Polarization effects in the luminescence of cadmium selenide electrodes
[AD-A133951] 05 p0647 N84-14253
Limiting energy spread at high laser intensities using phase space displacement
[AD-A133322] 06 p0850 N84-15542
Transport properties of selected metal oxides 11 p1740 N84-21356
A calculation of the pressure dependent energy bands of cooper chloride
[INPE-3094-PRE/498] 16 p2559 N84-26419
Theory of the electronic properties of mercury-cadmium-telluride alloys
[AD-A143426] 22 p3863 N84-33221

ENERGY BUDGETS
NT ATMOSPHERIC HEAT BUDGET
Satellite measurements of radiation budgets — conferences
[BMFT-FB-W-83-025] 10 p1533 N84-20044
Nimbus-Earth radiation budget instrument analysis
[NASA-CR-172318] 14 p2175 N84-24029
Analytical model of latitudinal variation of dispersion and spectra of fluctuations of zonally averaged surface temperature 18 p2856 N84-28137
Observations of radiation exchange above and below Amazonian forest
[INPE-3194-PRE/558] 21 p3447 N84-31870

ENERGY CONSERVATION
Open-cycle vapor compression heat pump
[PB83-228429] 01 p0059 N84-10384
Proceedings of the United States Air Force and Tri-Service Wind Energy Workshop and Conference
[AD-A130697] 01 p0103 N84-10666
Preliminary operating assessment advanced Heat Recovery Incinerator (HRI). Site One: O'Connor Combustor Corporation
[AD-A131254] 01 p0103 N84-10667
Energy efficient engine: Flight propulsion system, preliminary analysis and design update
[NASA-CR-167980] 02 p0179 N84-11170
Analysis of gases in the Earth's crust
[PB83-243972] 02 p0251 N84-11643
Energy conserving nonrelativistic guiding center mechanics and the Galilean principle of relativity
[IPP-6/219] 02 p0286 N84-11878
Assessment of energy-efficiency improvements for paint spray booths
[DE83-016680] 03 p0356 N84-12320
Performance of add-on-type heat pump water heaters using two different test methods
[PB83-222703] 03 p0359 N84-12332
Comparison of technologies for new energy-efficient lamps
[DE83-015949] 03 p0369 N84-12401
Ground coupled heat-pump-system experimental results
[DE83-014011] 03 p0373 N84-12427
A study of the relationship between exhaust emissions and fuel economy
[PB83-235564] 03 p0385 N84-12506
Innovative industrial-materials processes — potential for energy conservation
[DE83-016784] 03 p0405 N84-12649
Arizona State science, engineering and technology process
[PB83-237107] 03 p0458 N84-13016
Annotated bibliography of battery evaluations
[DE84-000653] 04 p0527 N84-13466
NAHBE (Naval Academy Heat Balanced Engine) m151 retrofit evaluation
[AD-A133475] 06 p0853 N84-15559
USAF advanced terrestrial energy study. Volume 3: Parameter survey
[AD-A133501] 06 p0874 N84-15685
Water and alcohol use in automotive diesel engines: Alternative Fuels Utilization Program
[DE84-004196] 10 p1470 N84-19603
Photovoltaic energy systems
[DOE/CE-0033/1] 12 p1838 N84-21979
Global energy futures and CO2-induced climate change, appendices
[PB84-145903] 12 p1862 N84-22132
Report to Congress on federal energy conservation programs, fiscal year 1981
[DOE/CE-0040] 12 p1917 N84-22489
Federal government energy management, fiscal year 1981
[DOE/CE-0043] 12 p1917 N84-22490
Solar and internal gain adjustments in calculation of energy conservation savings
[DE83-011983] 16 p2512 N84-26119
The DOE passive solar commercial buildings program: Preliminary results of performance evaluation 16 p2515 N84-26141
Do users ruin design intentions? 16 p2515 N84-26144
Advanced optical and thermal technologies for aperture control 16 p2517 N84-26156
Transparent aerogels for low-conductance windows 16 p2517 N84-26157
Variable transmittance electrochromic windows 16 p2517 N84-26158
Optics and materials research for controlled radiant energy transfer in buildings 16 p2517 N84-26159
Development of solar materials and components 16 p2518 N84-26162
Cogeneration: Status and environmental issues
[PB84-155175] 17 p2723 N84-27334
Energy efficient engine fan component detailed design report
[NASA-CR-165466] 18 p2795 N84-27737
US energy: Aviation perspective
[AD-A137766] 18 p2821 N84-27910
Hybrid vehicle assessment. Phase 1: Petroleum savings analysis
[NASA-CR-173741] 18 p2947 N84-28682
Utilization of amorphous metals in electric motors. Power systems technology program
[DE84-009483] 19 p3018 N84-29136
Compressed air systems: A guidebook on energy and cost savings
[DE84-006802] 20 p3170 N84-30133
Energy conservative cable system demonstration project
[DE84-006962] 20 p3179 N84-30195
Stability criterion for moist compressible atmosphere and energy conditions for development of convective cloud cover: Numerical experiment 20 p3224 N84-30489
Modification of the surface temperature by an artificial cirrus cloud
[DE84-011387] 20 p3247 N84-30611
Fuel conservative guidance concept for shipboard landing of powered-lift aircraft
[NASA-TM-85971] 21 p3344 N84-31215
Performance test results of a lithium bromide-water absorption heat pump that uses low-temperature (60 deg C(140 deg F)) waste heat
[DE84-013129] 21 p3403 N84-31586
Scenario planning: Energy considerations in the long range urban transportation planning process
[DE84-013590] 22 p3677 N84-33308
Activated aluminum alloy for generating hydrogen fuel 23 p3705 N84-33490
Energy Conversion and Utilization Technologies Program (ECUT) electrocatalysis research
[NASA-CR-173939] 23 p3713 N84-33534
Exploratory Energy Research Program of the University of Hawaii at Manoa
[DE84-014910] 23 p3784 N84-34000
Performance of passive solar and energy conserving houses in California
[SERI/STR-254-2017] 23 p3790 N84-34039
Investigation of power factor controller applications
[AD-A144466] 24 p3898 N84-34686

ENERGY CONSUMPTION
The energy cost and heart rate response of trained and untrained subjects walking and running in shoes and boots
[AD-A131420] 01 p0113 N84-10735
Short-term energy outlook. Volume 2. Methodology
[DE83-016853] 03 p0405 N84-12648
Energy use and range of electric vehicles in selected US Department of Energy sites
[DE83-015719] 03 p0461 N84-13034
Energy consumption analysis of the Venus Deep Space Station (DSS-13) 04 p0519 N84-13413
Energy-efficient automobiles for the future
[DE84-000600] 04 p0617 N84-14073
Energy use: The human dimension
[DE84-001405] 05 p0714 N84-14676
Measures of nonlinearity for segmented regression models
[AD-A132838] 05 p0740 N84-14864
Process for isotope separation
[DE84-001983] 06 p0844 N84-15507
Energy state revisited 07 p0943 N84-16118
Passive solar design procedures for Naval installations
[AD-A136329] 09 p1341 N84-18760
Simplified confidence intervals for an awkward nonlinear model
[AD-A136403] 09 p1374 N84-18975
Research and development of energy-efficient appliance motor-compressors. Volume 4: Production demonstration and field test
[DE84-005083] 10 p1472 N84-19611
Commentary on Columbia River instream flows
[PB84-133351] 10 p1527 N84-20007
Weather effects on electricity peak loads in the Southwest of the Netherlands and verification of the estimation of these maxima, 1 January 1972 - 1 January 1983
[KNMI-WR-83-14(DM)] 10 p1540 N84-20095
Demonstration of the coast-down technique for determining train resistances
[NASA-CR-173468] 12 p1765 N84-21515
Global energy futures and CO2-induced climate change, appendices
[PB84-145903] 12 p1862 N84-22132
Supercritical solvent coal extraction
[NASA-CASE-NPO-15210-1] 13 p1955 N84-22709
Reynolds number effects on pressure loss and turbulence characteristics of four tube-bundle heat exchangers
[NASA-TM-85807] 16 p2439 N84-25645
Solar and internal gain adjustments in calculation of energy conservation savings
[DE83-011983] 16 p2512 N84-26119
The predicted impact of linear roof apertures on the energy performance of office buildings 16 p2514 N84-26133
Measured performance of 50 passive solar residences in the United States 16 p2514 N84-26138
Development of an industry-based residential thermal program evaluation program 16 p2515 N84-26139
Thermal effects resulting from occupant behavior and building operation 16 p2515 N84-26143
Do users ruin design intentions? 16 p2515 N84-26144
Whole building performance monitoring: Measurements on baseline buildings 16 p2515 N84-26145
Survey of design tools for passive and hybrid low energy buildings 16 p2516 N84-26147
Dynamic property studies of Sterling engines
[NASA-TM-77719] 19 p3031 N84-29225

Research and development of energy-efficient high back-pressure compressor
[DE84-011827] 20 p3170 N84-30131
Energy conservative cable system demonstration project
[DE84-006982] 20 p3179 N84-30195
Operation of electric vehicles in the US Department of Energy test program
[DE84-011703] 21 p3521 N84-32308
Pulse driver for flux gate magnetometer
[AD-D011053] 22 p3596 N84-32774
Activated aluminum alloy for generating hydrogen fuel
23 p3705 N84-33490
Hourly values of electricity and heat consumption and electricity supply conditions. Fundamentals of Block Heating Power Station (BHPS) construction — economic aspects 23 p3792 N84-34048
Investigation of power factor controller applications
[AD-A144466] 24 p3898 N84-34686
Evaluation of microcomputer energy analysis programs
[AD-A144684] 24 p3942 N84-34959
A guide to the Electrical Analysis Software System (EASS)
[AD-A144680] 24 p3947 N84-34998

ENERGY CONVERSION
NT BIOMASS ENERGY PRODUCTION
NT GEOTHERMAL ENERGY CONVERSION
NT OCEAN THERMAL ENERGY CONVERSION
NT PHOTOTHERMAL CONVERSION
NT SOLAR ENERGY CONVERSION
NT SOLAR TOTAL ENERGY SYSTEMS
JPL highlights, 1981
[NASA-CR-174535] 01 p0159 N84-11046
Areas of the rational use of different spacecraft power systems
[AD-A129340] 02 p0186 N84-11207
Development of a cesium-vapor-lamp system for triggering photothyristors — for power conversion applications in electric utility substations
[DE83-902691] 02 p0215 N84-11407
The 240-kA switch with potential application in electromagnetic-launch systems
[DE84-001174] 05 p0677 N84-14449
Pyroelectric conversion in space: A conceptual design study
[NASA-CR-168272] 05 p0699 N84-14585
Recycling the kinetic energy of an automobile
[DE83-004201] 06 p0851 N84-15551
Oxygen electrodes for energy conversion and storage
[DE84-003919] 07 p0999 N84-16476
Development of technologies for very thin solar cells
[BMFT-FB-W-83-024] 08 p1181 N84-17694
An assessment of advanced technology for industrial cogeneration
[NASA-CR-173456] 12 p1841 N84-22001
Survey of cogeneration: Advanced cogeneration research study
[NASA-CR-173454] 12 p1842 N84-22007
Materials and cells for high-efficiency solar-to-electric conversion
[DE83-011961] 12 p1843 N84-22015
Oscillating wind energy conversion systems
[DE84-000087] 12 p1843 N84-22018
A review of in situ propellant production techniques for solar system exploration
[NASA-CR-173494] 13 p1936 N84-22595
Study of solar array switching power management technology for space power system
[NASA-CR-167890-EXEC-SUM]
13 p2008 N84-23021
Untapped midwestern wind energy resource: Nocturnal low-level wind maxima
[DE84-006424] 13 p2017 N84-23077
Thermal energy recovery in gas turbine engine test cells
[AD-A139457] 14 p2172 N84-24009
Mechanisms of photochemical reactions of transition metal complexes: Excited state electron transfer and organometallic photochemistry
[AD-A140006] 15 p2287 N84-24722
ECUT: Energy Conversion and Utilization Technologies program. Industry, university and research interest in the US Department of Energy ECUT biocatalysis research activity
[NASA-CR-173553] 15 p2361 N84-25167
Basic and applied research related to the technology of space energy conversion systems, 1982 - 1983
[NASA-CR-173554] 15 p2361 N84-25168
Proceedings of the Flat-Plate Solar Array Project Research Forum on the High-Speed Growth and Characterization of Crystals for Solar Cells
[NASA-CR-173746] 18 p2935 N84-28614
ORNL research programs on refrigeration systems, ECUT materials and tribology
[DE84-007542] 19 p3032 N84-29232
Wind turbine generator interaction with conventional diesel generators on Block Island, Rhode Island. Volume 1: Executive summary
[NASA-CR-168318] 19 p3050 N84-29357
German-Argentinian R and D project for the utilization of wind energy
[BMFT-FB-T-84-080] 20 p3237 N84-30549
Pore-forming fillers for molten carbonate matrices
[DE84-014509] 23 p3715 N84-33551
Method of fabricating a monolithic core for a solid oxide fuel cell
[DE84-014665] 23 p3743 N84-33727

ENERGY CONVERSION EFFICIENCY
Design of a 20-MJ coaxial generator
[DE83-014152] 01 p0073 N84-10481
Closed energy cycle with MRD generator using T-layer effect
[AD-A131136] 02 p0242 N84-11583
Space station energy sizing 03 p0344 N84-12233
Application features and considerations in advanced lead-acid and nickel/iron EV batteries
[DE83-017936] 04 p0528 N84-13472
Maximum-efficiency dc-motor project for electric vehicles
[DE84-000791] 07 p0999 N84-16479
Refractory materials for high-temperature thermoelectric energy conversion
[NASA-CR-173159] 08 p1136 N84-17388
Power 09 p1269 N84-18288
A study of the rechargeability of the Red Camel lead-acid battery between +20 deg C and -30 deg C
[AD-A137635] 11 p1646 N84-20764
Results of the 1983 NASA/JPL balloon flight solar cell calibration program
[NASA-CR-173465] 12 p1779 N84-21609
Wind power generation design considerations
[AD-A138841] 13 p2009 N84-23029
Solar-assisted hydrogen generation by photoelectrocatalysis: Electric birefringence and ellipsometric spectroscopy of the semiconductor/electrolyte interface
[PB84-169804] 15 p2288 N84-24731
Basic and applied research related to the technology of space energy conversion systems, 1982 - 1983
[NASA-CR-173554] 15 p2361 N84-25168
Technical use of solar energy. Part 1. Thin films solar cells
[BMFT-FB-T-83-298-PT-1] 15 p2362 N84-25172
A study of the action of an airgun
[BU-296] 16 p2454 N84-25734
Results from the NBS passive test building: A status report 16 p2514 N84-26135
Measured performance of 50 passive solar residences in the United States 16 p2514 N84-26138
Development of an industry-based residential thermal program evaluation program 16 p2515 N84-26139
Study of VUV generation by coherent resonant frequency mixing in metal vapors
[AD-A140800] 17 p2663 N84-26989
CONC/11: A computer program for calculating the performance of dish-type solar thermal collectors and power systems
[NASA-CR-173735] 18 p2869 N84-28212
Process Research On Polycrystalline Silicon Material (PROPSM) — flat plate solar array project
[NASA-CR-173754] 18 p2869 N84-28213
Solar parabolic dish technology evaluation report
[NASA-CR-173725] 18 p2870 N84-28217
Second-law efficiency of solar-thermal cavity receivers
[NASA-CR-173732] 18 p2871 N84-28223
Advanced solar receivers 18 p2872 N84-28232
Advanced solar power systems
18 p2872 N84-28235
SPIKE-2: A practical Stirling engine for kilowatt level solar power 18 p2873 N84-28239
The base engine for solar Stirling power
18 p2875 N84-28254
Technology development for tapered-wiggler free-electron lasers
[AD-A142319] 19 p3029 N84-29213
Optimal design of high-efficiency single-junction and tandem concentrator space cells at 80 deg C and 100 SUNS 19 p3046 N84-29326
Development and support structures for high-power solar arrays 19 p3048 N84-29336
High-efficiency Conventional Cells Workshop
19 p3049 N84-29345
Effect of vortex generators on the power conversion performance and structural dynamic loads of the Mod-2 wind turbine
[NASA-TM-83680] 19 p3049 N84-29347
Energy conservative cable system demonstration project
[DE84-008982] 20 p3179 N84-30195
Theoretcial studies of solar-pumped lasers
[NASA-CR-173833] 20 p3192 N84-30274
Comparison of methods for calculating energy release rates
[DE84-012231] 20 p3204 N84-30350
Photo/Biological Hydrogen Principal Investigators Review Meeting: Proceedings of the May 1983 Program Review
[DE84-000063] 20 p3235 N84-30536
Proceedings of the DOE Physical and Chemical Energy Storage Annual Contractors' Review Meeting
[DE83-017536] 20 p3236 N84-30540
Advantages of metallic fuels for rocket propulsion
21 p3348 N84-31237
Cost effectiveness of converting to alternative motor vehicle fuels. A technical assistance study for the city of Longview
[DE84-010479] 21 p3375 N84-31415
Wind turbine generator interaction with conventional diesel generators on Block Island, Rhode Island. Volume 2: Data analysis
[NASA-CR-168319] 21 p3433 N84-31783
Solar thermal parabolic dish systems: Technology and applications
[DE84-012239] 21 p3435 N84-31792
Wind energy systems for electric utilities: A synthesis of value studies
[DE84-004520] 21 p3435 N84-31796
Selected bibliography of solar thermal literature. Volume 2: Indexes
[DE84-009363] 21 p3518 N84-32288
The NASA photovoltaic technology program
[NASA-TM-83685] 22 p3542 N84-32426
Conceptual design of a noncontacting power transfer device for the ASPS Vernier system
[NASA-CR-172238] 22 p3581 N84-32677
Proceedings of the Flat-Plate Solar Array Project Research Forum on the Design of Flat-Plate Photovoltaic Arrays for Central Stations
[NASA-CR-173918] 22 p3582 N84-32683
Source-circuit design overview
22 p3582 N84-32684
Source-circuit design with multiple photovoltaic manufacturers 22 p3582 N84-32685
High power microwave generator
[DE84-014230] 22 p3590 N84-32738
Stable density stratification solar pond
[NASA-CASE-NPO-15419-2] 22 p3616 N84-32910
A new solar cell design for improved open circuit voltage and high efficiency
[NASA-CASE-NPO-16126-1] 22 p3616 N84-32911
Bi-directional control system for energy flow in a solar powered flywheel
[NASA-CASE-MFS-25978-1] 22 p3616 N84-32913
Review of solar fuel-producing quantum conversion processes
[NASA-CR-173904] 22 p3617 N84-32916
High-efficiency multi-colored photovoltaic cells
[PB84-200575] 22 p3619 N84-32932
Silicon solar cell process development, fabrication and analysis
[NASA-CR-173950] 23 p3787 N84-34020
Process Research of Poycrystalline Silicon Material (PROPSM)
[NASA-CR-173934] 23 p3788 N84-34026
Preliminary assessment of the velocity pump reaction turbine as a geothermal total-flow expander
[DE84-014749] 23 p3791 N84-34043
Solar energy. M.A.N. systems and their efficiency
23 p3791 N84-34045
Wind energy. M.A.N. systems and their efficiency
23 p3791 N84-34046

ENERGY CONVERTERS
U DIRECT POWER GENERATORS

ENERGY DENSITY
U FLUX DENSITY

ENERGY DISSIPATION
Application of advanced materials to rotating machines 01 p0010 N84-10063
Lightweight, high-frequency transformers
01 p0011 N84-10066
High-voltage analytical electron microscopy
[DE83-014318] 01 p0085 N84-10554
The phenomenology of deep-inelastic processes
[DE83-016622] 02 p0292 N84-11913
Radiation-induced transient acoustic loss in quartz crystals
[DE83-012626] 03 p0453 N84-12980
Electron-energy-loss spectral library and its application to materials science
[DE84-000588] 04 p0494 N84-13241
Searching for limitations in capability due to high average rates 06 p0911 N84-15919
Dissipation of magnetic energy during disruptive current termination — disruptions in tokamak reactors
[IPPJ-644] 06 p0919 N84-15973
Crack healing in polymers
[AD-A134488] 07 p0979 N84-16343

Testing of the box transformer 10/04.4 kV in the network of the electricity supply company
[BMFT-FB-T-83-165] 07 p1000 N84-16483
Free-piston Stirling engine experimental program: Part 1. Baseline test summary
[DE84-003659] 07 p1012 N84-16567
Electron acceleration in the front of intense collisionless shock waves
[PR-813] 08 p1154 N84-17511
Free-piston Stirling engine experimental program: Part 2. An evaluation of loss mechanisms
[DE84-003658] 09 p1325 N84-18661
A synthesized model of the near-wall behavior in turbulent boundary layers
[AD-A137029] 10 p1493 N84-19764
Heat exchange during upper and lower body exercise
[AD-A136015] 10 p1548 N84-20146
Experimental study of turbulent swirling flows
11 p1650 N84-20776
Rates and mechanisms of energy dissipation and the structure of molecular solids
[AD-A137714] 11 p1730 N84-21283
The beam-density effect on energy loss of a relativistic charged particle beam
[AD-A139051] 13 p2041 N84-23241
Energy loss of 24.8-MeV electrons by interacting with thick layers of C, Al, Cu, and Pb
[ETL-836] 13 p2046 N84-23277
Alfven wave dissipation in the solar wind
[IFSI-84-7] 18 p2953 N84-28718
Design considerations for shear links in eccentrically braced frames
[PB84-192186] 20 p3171 N84-30136
Photon losses in cosmic ray acceleration in active galactic nuclei
[DE84-012583] 20 p3321 N84-31081
Low heat loss laser combustion chamber
[AD-D011107] 22 p3600 N84-32799
Dynamics of angular movements of a solid supporting a rotating rotor with consideration of energy dissipation
[AD-A143349] 22 p3611 N84-32881
Spherically symmetric radiation in gravitational collapse 22 p3677 N84-33312
Abnormal energy deposition on the wall through plasma disruptions
[IPPJ-684] 23 p3827 N84-34273
Physics of nonmagnetic relativistic thermal plasmas
[NASA-TM-86154] 24 p3965 N84-35107

ENERGY DISTRIBUTION
NT SPECTRAL ENERGY DISTRIBUTION
Positron spectroscopy applied to the analysis of surfaces
[DE82-006836] 01 p0038 N84-10238
A flutter optimization program for complete aircraft structural design 02 p0172 N84-11134
Energy distributions and yields of secondary ions and electrons emitted by GIOTTO during Halley encounter
[DE84-001661] 06 p0940 N84-16105
Linearity and resolution of photodiodes
[DE84-002761] 07 p0998 N84-16470
Observations of the GEOS-2 equilibrium potential and its relation to the ambient electron energy distribution
08 p1116 N84-17256
Energy distributions and yields of secondary ions and electrons emitted by GIOTTO during Halley encounter
08 p1118 N84-17272
The concepts of critical temperature and energy cutoff of ambient electrons in high voltage charging of spacecraft 08 p1119 N84-17275
Functional integration of vertical flight path and speed control using energy principles 11 p1618 N84-20588
Measurement of the energy resolution and related properties of an SCG1-C scintillation glass shower counter array for 1 to 25 GeV positrons
[DE84-007246] 14 p2148 N84-23871
Free radical detection and dynamics in propellant ignition and combustion systems
[AD-A142180] 19 p3002 N84-29023
Worldwide energy resource distribution estimates
[DE84-012216] 20 p3248 N84-30612
Theoretical studies of the pulsar magnetosphere
21 p3437 N84-31809
Nonthermal effects on the diagnostics of a collapsing gas shell Z-pinch
[DE84-009996] 21 p3502 N84-32199
Energy redistribution in diatomic molecules on surfaces
[DE84-011442] 21 p3505 N84-32213
Parametric characteristics of an electrically initiated HF laser
[AD-A144324] 24 p3908 N84-34757
Large scale tropical heat sources and global atmospheric energy propagation associated with droughts in Northeast Brazil
[INPE-3227-PRE/578] 24 p3918 N84-34806
Spatio-temporal spectral analysis by eigenstructure methods
[AD-A144361] 24 p3951 N84-35017

ENERGY EFFICIENCY TRANSPORT PROGRAM
U ACEE PROGRAM

ENERGY EXCHANGE
U ENERGY TRANSFER

ENERGY GAPS (SOLID STATE)
Phonon-induced enhancements of the energy gap and critical current in superconducting aluminum
[DE83-015210] 03 p0455 N84-12996
Squeezable electron tunneling junctions
[AD-A132884] 05 p0754 N84-14946
Band-overlap metallization of BaS, BaSe and BaTe
[NASA-CR-173396] 12 p1912 N84-22458
Cluster calculation of electronic structure of the diamond (111) surface using the XAlpha-scattered wave method
[AD-A140486] 16 p2560 N84-26426
Quantum well multijunction photovoltaic cell
[DE84-011113] 21 p3393 N84-31529
Drift mobilities by time-of-flight methods and time-dependent phototransport in the nanosecond regime in amorphous semiconductors
[DE84-014906] 22 p3666 N84-33241

ENERGY LEVELS
NT ATOMIC ENERGY LEVELS
NT ELECTRON STATES
NT GROUND STATE
NT INTERMOLECULAR FORCES
NT MOLECULAR ENERGY LEVELS
Efficiency of wood as a passive shielding for particles and photons of 0.5 to 4.6 MeV between 940 and 377 mb
[INPE-2864-PRE/399] 02 p0288 N84-11891
Low energy electron magnetometer using a monoenergetic electron beam
[NASA-CASE-LAR-12706-1] 03 p0375 N84-12444
Study of excited state energy transfer processes
[AD-A131777] 03 p0433 N84-12837
Inertial fusion with low-energy heavy ions
[DE83-016709] 03 p0446 N84-12934
Density of occupied d states in transition metal-metalloid metallic glasses
[DE84-001206] 04 p0503 N84-13298
Neutron total cross section measurements in the energy region from 47 keV to 20 MeV
[DE84-001400] 04 p0601 N84-13970
Average vibrational energy transfer during a single collision of excited molecules with heat bath molecules
[AD-A133391] 06 p0915 N84-15949
Computational spectroscopy
[DE84-003754] 07 p0971 N84-16290
Planar channeling radiation from relativistic positrons and electrons in LiF
[DE84-002800] 07 p1081 N84-17033
Ion beam assisted deposition of SiO2
[AD-A136247] 09 p1278 N84-18342
On the rate of energy input in thermal solar flares
[AD-A138345] 13 p2092 N84-23548
Enhanced solar energy collection in porphyrin based photoconversion schemes
[DE84-006882] 14 p2173 N84-24015
Development and application of low energy X-ray and electron physics
[AD-A140480] 16 p2556 N84-26397
Operating conditions for the Hydrogen/Deuterium triplet lasers
[AD-A141388] 19 p3029 N84-29210
Rare-earth ion-host lattice interactions: 15. Analysis of the spectra of Nd3+ in Gd3Sc2Ga3O12
[AD-A142555] 20 p3309 N84-31015
Theory of 4-wave mixing for VUV generation
[DE84-011663] 21 p3410 N84-31630

ENERGY LOSSES
U ENERGY DISSIPATION

ENERGY METHODS
NT STRAIN ENERGY METHODS
Expected energy method for electro-optical SNR calculations
[AD-A139964] 15 p2398 N84-25389

ENERGY OF FORMATION
Comparison of methods for calculating energy release rates
[DE84-012231] 20 p3204 N84-30350

ENERGY POLICY
Energy: A continuing bibliography with indexes, issue 38
[NASA-SP-7043(38)] 02 p0241 N84-11578
Windpowered generators. Test field Pellworm. The test of the Aeroman system
[GKSS-83-E-15] 02 p0243 N84-11589
Solar high and low temperature application for arid countries
[MBB-UR-583-82-OE] 02 p0251 N84-11640
Optimum engine for methanol utilization
[PB83-239459] 03 p0385 N84-12507
Heating with wind energy, part B
[BMFT-FB-T-83-131-PT-B] 03 p0405 N84-12651
Baseline and verification tests of the electric vehicle associates' current fare station wagon
[AD-A132549] 04 p0617 N84-14072
Thin-layer solar cells made of amorphous silicon
[MBB-UA-664-82-OE] 05 p0698 N84-14584
Proceedings of the US Department of Energy Photovoltaics Program Annual Review
[DE83-010325] 05 p0699 N84-14589
Supercritical multicomponent solvent coal extraction
[NASA-CASE-NPO-15767-1] 07 p0965 N84-16255
Can we delay a greenhouse warming
[DE84-900198] 07 p1027 N84-16658
Energy: A continuing bibliography with indexes, issue 39
[NASA-SP-7043(39)] 10 p1528 N84-20011
Zoning for wind machines: A guide for Minnesota communities
[PB84-129568] 10 p1531 N84-20027
Energy: A continuing bibliography with indexes, issue 40, January 1984
[NASA-SP-7043(40)] 12 p1837 N84-21977
Global energy and CO2-induced climate change
[PB84-145895] 12 p1862 N84-22131
Report to Congress on federal energy conservation programs, fiscal year 1981
[DOE/CE-0040] 12 p1917 N84-22489
Federal government energy management, fiscal year 1981
[DOE/CE-0043] 12 p1917 N84-22490
Wind energy test field Pellworm: Tests of the plant Bruemmer BW 120S
[GKSS-83-E-42] 13 p2010 N84-23035
Magnetic fusion energy research and development
[DE84-007089] 13 p2045 N84-23270
Mechanisms of photochemical reactions of transition metal complexes: Excited state electron transfer and organometallic photochemistry
[AD-A140006] 15 p2287 N84-24722
CO + H/sub 2 reaction over nitrogen-modified iron catalysts
[DE84-009046] 15 p2288 N84-24727
Use of the Li-Al/FeS battery in advanced vehicle propulsion systems
[DE84-007275] 15 p2421 N84-25538
Proceedings of the Passive and Hybrid Solar Energy Update
[CONF-830960] 16 p2513 N84-26125
Evaluation of dissociated and steam-reformed methanol as automotive engine fuels
[NASA-CR-168242] 18 p2821 N84-27909
An appraisal of straight bladed vertical and horizontal windmills
[PP-127] 18 p2876 N84-28264
Changing pattern of carbon dioxide emissions
[DE84-010086] 19 p3052 N84-29371
Engineering research on positive displacement gas expanders, phase 1
[DE84-008977] 20 p3198 N84-30310
Targeting geothermal exploration sites in the Mount St. Helens area using solid mercury surveys
[DE84-012547] 20 p3229 N84-30519
Appropriate Technology Small Grants Program evaluation, volume 1: Executive summary
[DE84-010675] 20 p3313 N84-31038
Appropriate Technology Small Grants Program evaluation, volume 2
[DE84-010674] 20 p3313 N84-31039
AFB/open cycle gas turbine conceptual design study
[NASA-CR-168135] 21 p3434 N84-31784
Activities in applied systems analysis
21 p3475 N84-32026
European scientific notes, volume 38, no. 5
[AD-A141713] 21 p3518 N84-32285
Department of Energy's activities to limit distribution of certain unclassified scientific and technical information
[PB84-189158] 21 p3520 N84-32302
Stable density stratification solar pond
[NASA-CASE-NPO-15419-2] 22 p3616 N84-32910
Solar-heated oil shale retort
[NASA-CASE-NPO-16392-1] 22 p3616 N84-32912
Project summaries, supplement
[DE84-013678] 23 p3744 N84-33734
Information Package: Windpower utilization
23 p3785 N84-34005
Windpower utilization from the point of view of the Federal Ministry of Research and Technology
23 p3785 N84-34006
Windpower utilization possibilities
23 p3785 N84-34007
Wind energy: Large windpower systems to produce electric energy 23 p3785 N84-34008
GROWIAN: Electric current from wind energy
23 p3786 N84-34009
Advice for windpower users 23 p3786 N84-34010

Optimization of the thermodynamic cycles of a collective heating power station 23 p3832 N84-34305

ENERGY REQUIREMENTS

Evaluation of a total energy-rate sensor on a transport airplane
[NASA-TP-2212] 03 p0332 N84-12164

Coronal heating by waves 03 p0466 N84-13068

Power 09 p1269 N84-18288

Cooling-load implications for residential passive solar heating systems 16 p2513 N84-26126

Measured versus predicted performance of the SERI test house: A validation study 16 p2513 N84-26128

Energy and peak power saved by passively cooled residences 16 p2513 N84-26130

Predicting energy savings attributed to daylighting 16 p2514 N84-26132

ENERGY SOURCES

Energy use: The human dimension
[DE84-001405] 05 p0714 N84-14676

Status of research in progress at the Inhalation Toxicology Research Institute
[DE83-012610] 06 p0875 N84-15694

Chemical composition of acid precipitation in Texas, volume 1
[DE84-900411] 07 p1027 N84-16659

Energy source today and tomorrow
[MBB-UR-602-82-O] 16 p2564 N84-26452

Worldwide energy resource distribution estimates
[DE84-012216] 20 p3248 N84-30612

ENERGY SPECTRA

NT ELECTRONIC SPECTRA
NT NEUTRON SPECTRA

Calculations of radiation fields and monkey mid-head and mid-thorax responses in AFRRI-TRIGA reactor facility experiments
[DE83-015483] 02 p0264 N84-11741

Origin of the ultra-high-energy cosmic rays
[DE83-013760] 02 p0309 N84-12025

Uses of synchrotron radiation
[DE83-014431] 03 p0416 N84-12720

Monte Carlo calculations of neutron and gamma-ray energy spectra for fusion-reactor shield design: Comparison with experiment
[DE83-016932] 03 p0449 N84-12956

Voyager measurements of the energy spectrum, charge composition, and long term temporal variations of the anomalous components in 1977-1982 03 p0471 N84-13100

Evolution of the ultra high energy cosmic ray spectron by transport equation
[DE83-013711] 03 p0476 N84-13132

Direct measurement of the energy spectrum of an intense proton beam
[DE84-000457] 04 p0597 N84-13939

Statistical properties of deep inelastic reactions
[DE84-000722] 04 p0598 N84-13943

Loop coalescence in flares and coronal X-ray brightening
[DE83-013070] 04 p0621 N84-14099

X-ray sensor development for magnetospheric research
[NASA-CR-173172] 07 p1006 N84-16525

The cosmic ray energy spectrum from 2 x 10-17 to 10-e-19 EV 08 p1246 N84-18146

System for producing high-resolution polarized and unpolarized beams with a tandem accelerator
[DE84-004054] 09 p1388 N84-19063

Shuttle flight test of an advanced gamma-ray detection system
[AD-A136681] 10 p1498 N84-19789

Dense plasma focus research at the Institute of Laser Engineering, Osaka (Japan) 10 p1581 N84-20360

Charge state resolved energy spectra of He, N, Ar, and Ne ions — in a plasma focus 10 p1582 N84-20366

Dependence of hydromagnetic energy spectra on interplanetary parameters
[AD-A138745] 13 p2036 N84-23209

Continuous energy gamma-ray spectrometry
[DE84-006349] 14 p2123 N84-23726

Measurement of heavy cosmic-ray nuclei on LDEF (M0002-2) 15 p2276 N84-24664

Linear energy transfer spectrum measurement experiment (P0006) 15 p2276 N84-24665

Proceedings of the Air Force Geophysics Laboratory Workshop on Natural Charging of Large Space Structures in Near Earth Polar Orbit
[AD-A134894] 16 p2521 N84-26185

A vector space approach to time-variant energy spectral analysis
[AD-A140196] 16 p2553 N84-26378

Determination of elemental intensities from direct Auger spectra by pre-filtered least squares fitting
[AERE-R-11226] 18 p2927 N84-28561

Survey of atmospheric radiation components for the Gamma and Cosmic Ray Astrophysics Branch of the Space Science Division of the Naval Research Laboratory
[AD-A141134] 19 p3124 N84-29845

Electron beam diagnostic for the Los Alamos free electron laser oscillator experiment
[DE84-011348] 20 p3193 N84-30278

Dynamics of plasma corona on spherical targets irradiated by laser 20 p3288 N84-30878

A study of the temporal and spectral characteristics of gamma ray bursts 22 p3680 N84-33331

The study of the dynamics of the electron fluxes and spectra during solar minimum 24 p3994 N84-35276

ENERGY STORAGE

NT ELECTRIC ENERGY STORAGE
NT HEAT STORAGE

Electrochemical-Storage-Systems Program summary
[DE83-011254] 01 p0075 N84-10493

Thermal energy storage evaluation and life testing
[NASA-CR-174464] 01 p0102 N84-10660

Coordinated research program in pulsed power physics
[AD-A129554] 01 p0138 N84-10905

Study of materials having significance for high energy magnet production and for hydrogen storage
[AD-A130900] 01 p0138 N84-10906

Technical analyses and related planning assistance in supporting of DOE's superconducting magnetic energy storage program
[DE83-012005] 01 p0139 N84-10909

Chemical/hydrogen energy systems
[DE83-012145] 02 p0204 N84-11328

GSFC flywheel status 03 p0344 N84-12230

Electrical power trade-offs 03 p0344 N84-12232

Space station control requirements and flywheel system weights for combined momentum and energy storage 03 p0344 N84-12236

Combined attitude control and energy storage 03 p0345 N84-12237

Flywheel electronics 03 p0345 N84-12239

Annular Momentum Control Device (AMCD) 03 p0345 N84-12241

Magnetic bearings for inertial energy storage 03 p0345 N84-12242

Advanced Control and Power System (ACAPS) technology program 03 p0345 N84-12243

Power system considerations and test activities 03 p0345 N84-12244

Assessment of potential for batteries in space applications 03 p0346 N84-12246

Some comments on longevity by a technologist 03 p0346 N84-12247

Alternate propulsion energy sources
[AD-A131939] 03 p0346 N84-12249

Progress in developing repetitive pulse systems utilizing inductive energy storage
[DE83-015167] 03 p0367 N84-12388

Storage of energy in magnetic field of superconductive coils
[AD-A131898] 03 p0403 N84-12636

Fourth International Conference on Photochemical Conversion and Storage of Solar Energy
[DE83-014760] 03 p0403 N84-12638

Initial operation of the compressed air experiment at Pittsfield, Illinois
[DE83-016930] 03 p0404 N84-12643

Thermochemical energy systems research
[DE83-012132] 03 p0404 N84-12644

Physical modeling of the champagne effect
[DE84-001813] 04 p0516 N84-13388

Theoretical modeling of the plasma-erosion opening switch for inductive-storage applications
[DE84-001843] 04 p0529 N84-13483

Flywheel rotor and containment technology development, FY83
[DE83-017615] 04 p0545 N84-13589

USAF advanced terrestrial energy study. Volume 1: Project summary
[AD-A133803] 05 p0699 N84-14588

Recycling the kinetic energy of an automobile
[DE83-004201] 06 p0851 N84-15551

A thermodynamically consistent constitutive model for inelastic flow of materials 06 p0857 N84-15581

Electrochemical studies of redox systems for energy storage
[NASA-CR-174503] 06 p0873 N84-15681

USAF advanced terrestrial energy study. Volume 2: Technology handbook
[AD-A133272] 06 p0873 N84-15684

USAF advanced terrestrial energy study. Volume 4: Analysis, data, and bibliography
[AD-A133514] 06 p0874 N84-15686

Flywheel energy-management systems for improving fuel economy of motor vehicles
[DE84-002340] 06 p0874 N84-15688

Energy stores and switches for rail-launcher systems
[NASA-CR-173249] 07 p0996 N84-16458

Oxygen electrodes for energy conversion and storage
[DE84-003919] 07 p0999 N84-16476

High pulse power RF sources for linear colliders
[DE84-003517] 07 p0999 N84-16477

Integrated Power/Attitude Control System (IPACS) technology experiment 08 p1111 N84-17229

Photochemical energy storage (photosensitized isomerization of norbornadiene to quadricyclane by copper (I) complexes)
[AD-A135363] 08 p1180 N84-17667

Discharging a superconducting store into an inverting converter
[AD-A135577] 09 p1341 N84-18761

Charge storage in doped poly(thiophene)
[AD-A137085] 10 p1455 N84-19506

Inertial energy storage hardware definition study (ring rotor)
[NASA-CR-175271] 10 p1529 N84-20015

Design, performance, and analysis of an aquifer thermal-energy-storage experiment using the doublet-well configuration
[DE84-001811] 10 p1529 N84-20019

Test techniques for model development of repetitive service energy storage capacitors
[DE84-004312] 11 p1674 N84-20925

Advanced nickel-hydrogen cell configuration study
[NASA-CR-173417] 13 p1985 N84-22889

Design considerations for a 10-kW integrated hydrogen-oxygen regenerative fuel cell system
[NASA-TM-83664] 13 p2008 N84-23023

Design of a 1-kWh bipolar nickel hydrogen battery
[NASA-TM-83647] 13 p2008 N84-23024

Study of flywheel energy storage for space stations
[NASA-CR-171780] 13 p2009 N84-23028

Coordinated research program in pulsed power physics
[AD-A139321] 14 p2142 N84-23843

Helical shear of an elastic circular tube with non-convex stored energy 15 p2313 N84-24882

Advanced electrochemical energy storage systems
[DE84-008245] 15 p2364 N84-25184

Use of the Li-Al/FeS battery in advanced vehicle propulsion systems
[DE84-007275] 15 p2421 N84-25538

Development of solar materials and components 16 p2518 N84-26162

Modeling and simulation of lead-acid batteries for photovoltaic systems 17 p2722 N84-27326

The solar constant, climate, and some tests of the storage hypothesis 17 p2780 N84-27649

Solar Total Energy Project (STEP) performance analysis of high temperature energy storage subsystem 18 p2874 N84-28249

Study report on a modular photovoltaic power supply system for space application
[BMFT-FB-W-84-010] 19 p2983 N84-28904

Plant and operational features of the BPA 30 MJ superconducting magnetic energy storage system
[DE84-008006] 19 p3011 N84-29086

High-voltage spark gap
[AD-A141072] 19 p3013 N84-29097

New 1-phase dual converter for superconducting inductive energy storage and transfer applications: The 1-phase inductor-converter bridge
[DE84-012118] 20 p3179 N84-30193

Economics of a conceptual 75 MW hot dry rock geothermal electric power station
[DE83-015926] 20 p3236 N84-30539

Proceedings of the DOE Physical and Chemical Energy Storage Annual Contractors' Review Meeting
[DE83-017536] 20 p3236 N84-30540

Battery Energy Storage Test (BEST) facility
[DE84-012127] 20 p3237 N84-30548

Commissioning tests of the Bonneville Power Administration 30 MJ superconducting magnetic energy storage unit
[DE84-006033] 20 p3285 N84-30660

The potential impact of new power system technology on the design of a manned space station
[NASA-TM-83770] 21 p3354 N84-31272

Rationale for US DOE energy storage program in hydrogen technology
[DE84-010225] 21 p3374 N84-31411

Technology base research project for electrochemical energy storage
[DE84-012248] 21 p3393 N84-31535

Study of bipolar batteries
[DE84-013193] 21 p3394 N84-31540

Energy storage capacitors. Lecture 4: Appendix
[DE84-010040] 21 p3395 N84-31546

Magnetically confined kinetic-energy storage ring: A new fundamental energy-storage concept
[DE84-011531] 21 p3435 N84-31793

Calorimetric determination of the thermodynamic behavior of reversible liquid-phase reactions for use in energy storage
[DE84-010437] 21 p3507 N84-32218
Characterization of physiochemical properties of polymeric and electrochemical materials for aerospace flight
[NASA-CR-175258] 22 p3558 N84-32534
Negative electrode catalyst for the iron-chromium REDOX energy storage system
[NASA-CASE-LEW-14026-1] 22 p3616 N84-32909
Technology Base Research Project for Electrochemical Energy Storage
[DE84-013877] 22 p3619 N84-32930
The 1983 Goddard Space Flight Center Battery Workshop
[NASA-CP-2331] 23 p3735 N84-33668
Inertial energy storage for spacecraft
23 p3735 N84-33669
Regenerative hydrogen-oxygen fuel cell-electrolyzer systems for orbital energy storage
23 p3735 N84-33670
Project summaries, supplement
[DE84-013678] 23 p3744 N84-33734
Substorms in the magnetosphere
23 p3837 N84-34340
Pulsed inductive energy store
[AD-A144262] 24 p3916 N84-34796

ENERGY STORAGE DEVICES
U ENERGY STORAGE

ENERGY TECHNOLOGY
NT GEOTHERMAL TECHNOLOGY
Papers for and a summary of a Workshop on The Role of Basic Research in Science and Technology: Case Studies in Energy R and D (Research and Development)
[PB83-213637] 01 p0159 N84-11052
Energy: A continuing bibliography with indexes, issue 38
[NASA-SP-7043(38)] 02 p0241 N84-11578
Solar high and low temperature application for arid countries
[MBB-UR-583-82-OE] 02 p0251 N84-11640
Operation of the power information center: Performance of secretariat functions and information exchange activities in the advanced power field of the interagency advanced power group
[NASA-CR-174570] 02 p0302 N84-11981
Assessment of potential for batteries in space applications 03 p0346 N84-12246
Photovoltaic-cell-reseach priorities
[DE84-000066] 04 p0559 N84-13683
Ecological Research Division marine research program
[DE83-017880] 04 p0560 N84-13691
Computer software summaries, numbers 424 through 693
[DE83-015297] 04 p0581 N84-13834
New heavy-ion-fusion accelerator research program
[DE83-014898] 04 p0609 N84-14016
Maintenance free lead acid battery with high cycle life and a new type of grid
[BMFT-FB-T-83-156] 05 p0677 N84-14453
Thin-layer solar cells made of amorphous silicon
[MBB-UA-664-82-OE] 05 p0698 N84-14584
USAF advanced terrestrial energy study. Volume 1: Project summary
[AD-A133803] 05 p0699 N84-14588
New technologies in the forefront of industrial developments 07 p0944 N84-16123
Support development program for the qualification of solar farm collectors
[BMFT-FB-T-83-207] 08 p1181 N84-17696
Problems of building turbogenerators with windings made of superconductors and pure metals
[AD-A137198] 10 p1485 N84-19710
Energy: A continuing bibliography with indexes, issue 39
[NASA-SP-7043(39)] 10 p1528 N84-20011
Research on alternative fuels
[CSIR-RME-465] 11 p1639 N84-20711
Energy: A continuing bibliography with indexes, issue 40, January 1984
[NASA-SP-7043(40)] 12 p1837 N84-21977
Survey of cogeneration: Advanced cogeneration research study
[NASA-CR-173454] 12 p1842 N84-22007
Technical applications of solar energy. Project photovoltaic systems and project selective coatings
[BMFT-FB-T-83-299] 12 p1844 N84-22025
Development of alternative energy science and engineering in the Caribbean
[PB84-145648] 12 p1845 N84-22026
Global energy futures and CO2-induced climate change, appendices
[PB84-145903] 12 p1862 N84-22132
East Europe report: Science and technology
[JPRS-ESA-84-012] 14 p2133 N84-23784
Solar thermal system engineering guidebook
[NASA-CR-173432] 15 p2361 N84-25165
Basic and applied research related to the technology of space energy conversion systems, 1982 - 1983
[NASA-CR-173554] 15 p2361 N84-25168
Development of molten carbonate fuel cell technology
[DE84-004856] 15 p2364 N84-25183
Artificial upwelling driven by salinity differences in the ocean
[DE84-000086] 15 p2374 N84-25244
High energy physics facilities
[GPO-30-261] 15 p2406 N84-25444
Energy technology characterizations handbook: Environmental pollution and control factors, third edition
[DOE/EP-0093] 16 p2511 N84-26117
Proceedings of the Passive and Hybrid Solar Energy Update
[CONF-830980] 16 p2513 N84-26125
Whole building performance monitoring: Measurements on baseline buildings 16 p2515 N84-26145
Performance monitoring highlights of BERD programs
16 p2516 N84-26146
Overview of Roof Pond Systems
16 p2516 N84-26150
The transfer of passive research and development results to industry and the user community
16 p2516 N84-26151
A laboratory approach to technology transfer: The passive solar cooling system concept example
16 p2516 N84-26152
Economics of installation of solar heating plants
17 p2641 N84-26896
Spectroscopic determination of the ac voltammetric response
[AD-A137321] 18 p2833 N84-27983
Safety-related requirements for photovoltaic modules and arrays
[NASA-CR-173747] 18 p2868 N84-28208
On solar thermal electric power capacity sizing
18 p2872 N84-28236
Recent developments: PKI square dish for the Soleras Project 18 p2873 N84-28237
Continuing research at Solar Steam, Incorporated
18 p2873 N84-28238
SPIKE-2: A practical Stirling engine for kilowatt level solar power 18 p2873 N84-28239
Vanguard concentration 18 p2873 N84-28244
Brayton module development overview
18 p2874 N84-28245
Near-term Brayton module status
18 p2874 N84-28246
Subatmospheric Brayton-cycle engine program review
18 p2874 N84-28247
LEC system development 18 p2874 N84-28248
Dynamic behavior of wind turbines
[NLR-MP-83047-U] 18 p2876 N84-28263
An appraisal of straight bladed vertical and horizontal windmills
[PP-127] 18 p2876 N84-28264
Liquid hydrogen polygeneration system and process
[NASA-CASE-KSC-11304-1] 19 p3001 N84-29017
Preflight study of San Marco D/L GaAs solar cell panels 19 p3047 N84-29334
Development and support structures for high-power solar arrays 19 p3048 N84-29336
Chemical-hydrogen energy systems
[DE84-012876] 20 p3167 N84-30112
Photo/Biological Hydrogen Principal Investigators Review Meeting: Proceedings of the May 1983 Program Review
[DE84-000083] 20 p3235 N84-30536
Proceedings of the DOE Physical and Chemical Energy Storage Annual Contractors' Review Meeting
[DE83-017536] 20 p3236 N84-30540
Ocean Energy Technology Program
[DE84-012052] 20 p3236 N84-30542
Environmental effects of increasing the amount of district heating in the Netherlands
[S/T-REPT-VOL-1-NO-5] 20 p3238 N84-30558
Appropriate Technology Small Grants Program evaluation, volume 1: Executive summary
[DE84-010675] 20 p3313 N84-31038
Appropriate Technology Small Grants Program evaluation, volume 2
[DE84-010674] 20 p3313 N84-31039
Information Center Complex publications and presentations, 1971-1982
[DE84-010603] 20 p3315 N84-31055
Selected bibliography of solar thermal literature. Volume 2: Indexes
[DE84-009363] 21 p3518 N84-32288
Energy Data Base corporate author entries
[DE84-003677] 21 p3518 N84-32290
Summary status of advanced water electrolysis and hydrogen storage/transport research and development
[DE84-012908] 22 p3547 N84-32456
Refueling considerations for liquid-hydrogen fueled vehicles
[DE84-012623] 22 p3562 N84-32557
Advancement of developmental technology for pulse combustion applications
[PB84-215268] 22 p3564 N84-32576
Effects of expiration of the Federal energy tax credit on the National Photovoltaics Program
[NASA-CR-173900] 22 p3675 N84-33299
Summaries of FY 1983 engineering research
[DOE/ER-0158/1] 23 p3727 N84-33614
Project summaries, supplement
[DE84-013678] 23 p3744 N84-33734
Exploratory Energy Research Program of the University of Hawaii at Manoa
[DE84-014910] 23 p3784 N84-34000
Seasonal thermal energy storage
[DE84-013854] 23 p3791 N84-34042
Increase of the electric power characteristic number in industrial power stations. Adaptation of Power-Heat Coupling (PHC) to a new consumption structure
23 p3791 N84-34047
Development of a production process for central receiver coatings
[BMFT-FB-T-84-124] 23 p3792 N84-34051
USSR report: Chemistry
[JPRS-UCH-84-007] 24 p3867 N84-34508
Summaries of the FY 1983 applied mathematical sciences research program
[DOE/ER-0157/1] 24 p3950 N84-35010
Preliminary design of a reuseable PPMHD (Pulsed Plasma MHD) power supply test bed facility
[AD-A144147] 24 p3965 N84-35108

ENERGY TRANSFER
NT LINEAR ENERGY TRANSFER (LET)
Nuclear magnetic resonance gyroscope
[AD-A130102] 01 p0083 N84-10539
Mechanism switching and trapping of Triplet-Triplet energy transfer in an orientationally disordered molecular solid
[AD-A130660] 01 p0142 N84-10931
Solar wind energy transfer to the terrestrial magnetosphere by magnetic junction in the magnetopause
[INPE-2848-RPE/439] 02 p0247 N84-11617
Spontaneous transfer of magnetically stored energy to kinetic energy by electric double layers
[TRITA-EPP-83-05] 02 p0297 N84-11949
Time-resolved laser studies on the energy transfer and the configurational changes in bacteriohodopsin
[DE83-015708] 03 p0382 N84-12487
Thermochemical energy systems research
[DE83-012132] 03 p0404 N84-12644
Study of vibrational energy transfer at a surface by a time-of-flight method
[AD-A131798] 03 p0432 N84-12833
High temperature gas energy transfer
[AD-A131782] 03 p0433 N84-12836
Study of excited state energy transfer processes
[AD-A131777] 03 p0433 N84-12837
Modeling of transient disturbances in coronal-streamer configurations 03 p0474 N84-13119
Decoupling ion efficiency from impedance in pulsed power diodes
[DE83-018114] 04 p0528 N84-13470
Theoretical studies of oxygen-iodine laser mechanisms and new laser concepts
[AD-A132374] 04 p0540 N84-13550
Analysis of stability and symmetry implications for ICF
[DE84-000640] 04 p0540 N84-13556
Shock induced molecular excitation in solids
[AD-A132236] 04 p0596 N84-13935
Intermolecular energy-transfer processes
[DE84-000334] 04 p0601 N84-13971
Experimental results on finite-beta limits and transport in the ISX-B Tokamak
[DE84-000258] 04 p0606 N84-14001
Collisional energy exchange in polyatomic molecules
[AD-A133942] 05 p0744 N84-14886
Rotational energy transfer in highly vibrationally excited hydrogen fluoride and deuterium fluoride
[AD-A133102] 05 p0745 N84-14892
Average vibrational energy transfer during a single collision of excited molecules with heat bath molecules
[AD-A133391] 06 p0915 N84-15949
Intermediate energy proton stopping power for hydrogen molecules and monoatomic helium gas
07 p1071 N84-16955
Thermal-energy transport from arc to rails in an arc-driven rail gun
[AD-A134991] 08 p1152 N84-17499

Infrared heating
[BLL-OA-TRANS-3121-(6196.3)] 08 p1154 N84-17512
De-excitation and equipartition in H2-surface collisions
[DE84-003008] 08 p1229 N84-18031
Reactions of metastable rare gases with copper atoms
[AD-A136448] 09 p1278 N84-18348
Radiative collisional laser feasibility demonstration
[AD-A135793] 09 p1322 N84-18640
Picosecond laser studies of excited state processes
[AD-A136137] 09 p1323 N84-18646
Intramolecular energy transfer reactions as a method for metal complex assisted production of hydrogen
[DE84-004762] 10 p1456 N84-19510
An experimental study of thrust augmenting ejectors
[AD-A136929] 10 p1492 N84-19757
A synthesized model of the near-wall behavior in turbulent boundary layers
[AD-A137029] 10 p1493 N84-19764
An explosive driven shock tube for verifying survival of radioisotope heat sources during space shuttle launch accident 10 p1509 N84-19876
Millimeter and submillimeter wave research: Spectroscopy, energy transfer and techniques
[AD-A137884] 11 p1663 N84-20853
Rates and mechanisms of energy dissipation and the structure of molecular solids
[AD-A137714] 11 p1730 N84-21283
Mean excitation energies for stopping powers in various materials using local plasma oscillator strengths
[NASA-TP-2271] 11 p1760 N84-21485
Vibrational energy transfer at a surface in reacting systems. Decomposition of azomethane
[AD-A137966] 12 p1901 N84-22381
Gas filled dynamics for laser driven fusion reactors
[DE84-005181] 12 p1910 N84-22444
Energetics of the magnetosphere, revised
[NASA-TM-86063] 13 p2010 N84-23041
Kerma factors for use in 37-group neutron spectrum calculations
[AD-A139033] 13 p2041 N84-23240
Electron energy deposition in the middle atmosphere
[AD-A139122] 14 p2175 N84-24032
Energy transfer in real and artificial photosynthetic systems
[DE84-007278] 15 p2378 N84-25275
Dynamics of itinerant ferromagnets above T sub c
[DE84-002695] 15 p2402 N84-25420
Mode-to-mode vibrational energy transfer in (1)B2 aniline induced by collisions with CO/sub 2
[DE84-007197] 15 p2406 N84-25440
Conductivity in semiconductors induced by vibrational-to-electronic energy transfer
[AD-A140094] 16 p2553 N84-26380
Generalized spectra of slightly nonlinear Rossby waves 17 p2698 N84-27187
Fluctuation of velocity distribution under influence of suspended particles on turbulence in bottom current 17 p2699 N84-27191
Collisional energy transfer in highly vibrationally excited molecules
[AD-A140772] 17 p2765 N84-27558
Primary processes of electronically excited molecules in vapor phase, part 3
[MPIS-12/1983] 18 p2930 N84-28582
Study of gas-surface interactions by laser-induced fluorescence detection
[AD-A141559] 19 p2988 N84-28933
Plasmon device design: Conversion from surface to junction plasmons with grating-couplers 19 p3047 N84-29330
Quantum mechanical studies of heavy ion scattering processes
[DE84-010124] 19 p3103 N84-29711
Disassembly of isochorically heated liquids
[DE84-009536] 19 p3108 N84-29747
Performance verification tests of an uprated augmented catalytic thruster 20 p3136 N84-29911
Inversion of spectral lineshapes to yield collisional rate constants
[AD-A142661] 20 p3149 N84-29994
Energy release and fluid dynamics in multiphase systems
[AD-A142402] 20 p3184 N84-30228
Global hydrologic cycle 20 p3217 N84-30434
Biological oceanography 20 p3217 N84-30437
Temperature rise calculations for the beam pipe in the SLC arcs
[DE84-011764] 20 p3295 N84-30924
CALTECH-DOE program on numerical analysis, computing and fundamental studies of motion, energy and mass transfer in fluids
[DE84-008935] 21 p3401 N84-31572
Theory of 4-wave mixing for VUV generation
[DE84-011663] 21 p3410 N84-31630
Electromagnetic theory of an antenna for ICR heating of a plasma in Tokamaks
[DE84-012988] 21 p3503 N84-32200
Spot heating calculation for a heavy ion driven high temperature experiment
[DE84-013879] 22 p3653 N84-33159
Atomic resonance and scattering 22 p3681 N84-33339
Interaction of high intensity subnanosecond CO2 laser pulses with molecules
[AD-A143654] 23 p3754 N84-33795
Energy transfer in atom-molecule collisions with suprathermal collision energy
[MPIS-2/1984] 23 p3824 N84-34249
Abnormal energy deposition on the wall through plasma disruptions
[IPPJ-684] 23 p3827 N84-34273
High latitude ionospheric structure 23 p3837 N84-34344

ENGINE AIRFRAME INTEGRATION
Aeroelastic design considerations for turboprop powerplant installations 02 p0171 N84-11123
Engine/airframe interference 03 p0319 N84-12085
Engine-airframe interference effects 03 p0319 N84-12086
Engine/airframe interference drag at cruise conditions, using propulsion simulation
[NLR-TR-82012-U] 03 p0321 N84-12098
Wingtip vortex propeller
[NASA-CASE-LAR-13019-1] 11 p1602 N84-20495
Highly integrated digital engine control system on an F-15 airplane
[NASA-TM-86040] 15 p2262 N84-24587
A formulation of rotor-airframe coupling for design analysis of vibrations of helicopter airframes
[NASA-RP-1089] 23 p3760 N84-33832

ENGINE ANALYZERS
Acoustic emission: A brief introduction to some of its uses in the aero engine industry
[PNR-90172] 13 p1933 N84-22571
A diagnostic technique for improving combustor performance 19 p2967 N84-28800

ENGINE CONTROL
NT ROCKET ENGINE CONTROL
NT TURBOJET ENGINE CONTROL
Integration of Fire Control, Flight Control and Propulsion Control Systems
[AGARD-CP-349] 03 p0315 N84-12056
Integration of fire, flight and propulsion control systems: An overview, retrospective and prospective 03 p0315 N84-12057
Application of flight controls technology to engine control systems 03 p0315 N84-12061
The relations between the numerical control of the engine and other aircraft functions 03 p0315 N84-12062
Full authority digital electronic engine controls and their integration with flight control systems in VSTOL aircraft 03 p0316 N84-12064
The integration of flight and engine control for VSTOL aircraft 03 p0317 N84-12070
Full Authority Digital Engine Control (FADEC)
[SNIAS-832-111-101] 16 p2450 N84-25714
Preliminary flight evaluation of F100 engine model derivative airstart capebility in an F-15 airplane
[NASA-TM-86031] 19 p2965 N84-28792
Computer aided data acquisition and control of an internal combustion engine
[AD-A144425] 24 p3946 N84-34990

ENGINE COOLANTS
Vortex generating flow passage design for increased film-cooling effectiveness and surface coverage — aircraft engine blade cooling
[NASA-TM-83617] 13 p1989 N84-22909
Status of the development of a long-life engine coolant system
[AD-A143098] 21 p3413 N84-31642

ENGINE DESIGN
NT ROCKET ENGINE DESIGN
An-32 transportation aircraft, USSR
[AD-A131013] 01 p0008 N84-10050
Secondary electric power generation with minimum engine bleed 01 p0010 N84-10059
F100 multivariable control synthesis program. Computer implementation of the F100 multivariable control algorithm
[NASA-TP-2231] 02 p0180 N84-11171
Hydrazine APU starter development
[AD-A131575] 02 p0180 N84-11175
Experimental hydrogen-fueled automotive engine design data-base project, volume 1
[DE83-017023] 02 p0204 N84-11331
Experimental hydrogen-fueled automotive engine design data-base project. Volume 2: Main technical report
[DE83-017025] 02 p0204 N84-11332
Efficiency terms for Stirling-engine systems
[DE83-014670] 02 p0229 N84-11505
APU operational efficiency 03 p0335 N84-12181
All-electric accessory drive systems: Implications on engine design and performance 03 p0336 N84-12184
Analytical design of a liquid hydrogen fueled turbofan-ramjet engine for flight Mach numbers zero to five 03 p0336 N84-12187
Executive summary, aerothermal modeling program, phase 1
[NASA-CR-174602] 03 p0348 N84-12263
Aerothermal modeling program, phase 1
[NASA-CR-168243-VOL-1] 03 p0348 N84-12264
Aerothermal modeling program, phase 1
[NASA-CR-168243-VOL-2] 03 p0348 N84-12265
Optimum engine for methanol utilization
[PB83-239459] 03 p0385 N84-12507
Flywheel rotor and containment technology development, FY83
[DE83-017615] 04 p0545 N84-13589
Design concepts for low-cost composite engine frames
[NASA-TM-83544] 07 p0954 N84-16186
Automotive Stirling engine development program
[NASA-CR-168205] 08 p1242 N84-18117
Civil component program Integrated Wing-Engine-System (IFAS), phase 1 — computational methods
[BMFT-FB-W-83-018] 10 p1429 N84-19343
Preliminary assessment of a rotary detonation engine concept
[AD-A137492] 10 p1431 N84-19354
Wingtip vortex propeller
[NASA-CASE-LAR-13019-1] 11 p1602 N84-20495
NASA control research overview 11 p1615 N84-20568
Identification of multivariable high-performance turbofan engine dynamics from closed loop data 11 p1617 N84-20580
Application of advanced control techniques to aircraft propulsion systems 11 p1618 N84-20590
Research on alternative fuels
[CSIR-RME-465] 11 p1639 N84-20711
Advanced turbocharger design study program
[NASA-CR-174833] 12 p1822 N84-21879
Stirling engine applications study
[PB84-148055] 12 p1823 N84-21888
Overview of NASA Lewis Research Center free-piston Stirling engine activities
[NASA-TM-83649] 12 p1921 N84-22512
Oxidizing seal for a turbine tip gas path
[NASA-CASE-LEW-14053-1] 13 p1932 N84-22563
Preliminary investigation of a two-zone swirl flow combustor
[NASA-TM-83637] 13 p1932 N84-22565
Engine affordability — aircraft engines
[PNR-90178] 13 p1933 N84-22574
Turboprop engine design concepts
[PNR-90181] 13 p1933 N84-22576
The accelerating pace of advancing aero engine technology
[PNR-90191] 13 p1934 N84-22577
Helicopter engine technology with particular reference to the Rolls-Royce Gem engine
[PNR-90193] 13 p1934 N84-22578
Some themes on Rolls-Royce military engine technology. Part 1: Old and new engines for combat aircraft. Part 2: After-burning technology
[PNR-90195] 13 p1934 N84-22579
Fuel efficient engines for large transport — aircraft
[PNR-90196] 13 p1934 N84-22580
The design and development of a low emissions Transply combustor for the civil Spey engine
[PNR-90198] 13 p1934 N84-22582
Computerized static firing analysis techniques of solid propellant rocket motors 13 p1944 N84-22841
Analysis of acoustic chamber pressure oscillations in shuttle high-pressure SRB's 13 p1946 N84-22851
Calculation of apparent masses in blade ring 13 p1971 N84-22793
Proven design + new technology = reliability + economy — aircraft engines
[PNR-90199] 13 p1999 N84-22973
Analysis of fuel system technology for broad property fuels 14 p2108 N84-23844
Volvo LCP: New materials, production methods 14 p2136 N84-23801
Preliminary flight test results of the F100 EMD engine in an F-15 airplane
[NASA-TM-85902] 15 p2262 N84-24588
Topics in finite time thermodynamics
[DE84-009057] 15 p2416 N84-25502

Cold-air performance of compressor-drive turbine of department of energy upgraded automobile gas turbine engine. 3: Performance of redesigned turbine
[NASA-TM-83627] 16 p2438 N84-25644
Safety recommendation A-84-7
16 p2443 N84-25674
Operational and Performance Measurement on Engines in Sea Level Test Facilities
[AGARD-LS-132] 16 p2452 N84-25723
Instrumentation techniques in sea level test facilities
16 p2453 N84-25727
Uninstalled aero engine testing in operation in the Royal Air Force 16 p2453 N84-25731
The industry's materials: SNIAS and general conditions of its environment
[SNIAS-832-502-101] 16 p2475 N84-25865
Encounters with surge 16 p2489 N84-25966
Friction damping of flutter in gas turbine engines
17 p2609 N84-26701
USSR report: Engineering and equipment
[JPRS-UEQ-84-003] 17 p2640 N84-26895
Bibliography of Supersonic Cruise Research (SCR) program from 1980 to 1983
[NASA-RP-1117] 18 p2785 N84-27674
Study of aerodynamic technology for single-cruise-engine VSTOL fighter/attack aircraft, phase 1
[NASA-CR-166268] 18 p2788 N84-27693
Energy efficient engine fan component detailed design report
[NASA-CR-165466] 18 p2795 N84-27737
Experimental hydrogen-fueled automotive engine design data-base project. Volume 3: Main technical report (appendices)
[DE83-017362] 18 p2848 N84-28086
Advanced Gas Turbine (AGT) Technology Project
[NASA-CR-174629] 18 p2849 N84-28089
SPIKE-2: A practical Stirling engine for kilowatt level solar power 18 p2873 N84-28239
Stirling module development overview
18 p2873 N84-28240
Parabolic dish Stirling module
18 p2873 N84-28241
United Stirling's solar engine development: The background for the Vanguard engine
18 p2873 N84-28242
Testing of the United Stirling 4-95 solar Stirling engine on test bed concentrator 18 p2873 N84-28243
Brayton module development overview
18 p2874 N84-28245
Study of aerodynamic technology for single-cruise engine V/STOL fighter/attack aircraft
[NASA-CR-166271] 19 p2956 N84-28737
Energy efficient engine high-pressure turbine detailed design report
[NASA-CR-165606] 19 p2965 N84-28788
Energy efficient engine: Turbine intermediate case and low-pressure turbine component test hardware detailed design report
[NASA-CR-167973] 19 p2965 N84-28789
NASA Orbit Transfer Rocket Engine Technology Program
[NASA-CR-168156] 19 p2983 N84-28901
Development of carbon slurry fuels for transportation (hybrid fuels, phase 2)
[NASA-CR-174659] 19 p2992 N84-28960
Oxidation and corrosion resistance of candidate Stirling engine heater-head-tube alloys
[NASA-TM-83609] 19 p2992 N84-28962
Properties of aircraft fuels and related materials
[AD-A141068] 19 p3001 N84-29019
Advanced Gas Turbine (AGT)
[NASA-CR-174694] 19 p3117 N84-29805
SSME modifications for on-demand launch vehicles
20 p3136 N84-29914
Evolution and flight history of the Defense Meteorological Satellite Program (DMSP) propulsion module 20 p3137 N84-29917
Firebolt derivative/ramjet engine feasibility investigation (core engine program): Program summary
20 p3144 N84-29962
Utilization of SRC-2 fuel in an insulated diesel engine
[DE84-004386] 20 p3167 N84-30111
Computational hierarchy for the analysis of combustion phenomena in ramjet environments
21 p3354 N84-31277
Interactive finite elements for general engine dynamics analysis 21 p3421 N84-31698
Nonlinear analysis for high-temperature composites: Turbine blades/vanes 21 p3421 N84-31699
Energy efficient engine component development and integration program
[NASA-CR-173684] 22 p3536 N84-32389
SEAMOPT: Sterling engine optimization code
[DE84-012098] 22 p3605 N84-32840
Automotive Stirling Engine Development Program. RESD summary report
[NASA-CR-174674] 22 p3677 N84-33307
Comparison of combustion efficiencies for ramjet engines
[NASA-TM-77749] 23 p3694 N84-33411
Gas turbine engine design considerations as related to alloys of high critical element content
23 p3703 N84-33470
Enhanced efficiency of modern four-stroke Diesel engines in generator operation
23 p3757 N84-33817

ENGINE FAILURE

Acoustic emission: A brief introduction to some of its uses in the aero engine industry
[PNR-90172] 13 p1933 N84-22571
Aircraft accident report. Eastern Air Lines, Incorporated, Lockheed L-1011, N334EA, Miami International Airport, Miami, Florida, May 5, 1983
[NTSB-AAR-84-04] 14 p2103 N84-23613
Contingency power concepts for helicopter turboshaft engine
[NASA-TM-83679] 14 p2109 N84-23648
Development of dynamic simulation of TF34-GE-100 turbofan engine with post-stall capability
[NASA-TM-83660] 16 p2450 N84-25712
Unsteady Flow in Turbomachines, volume 1
[VKI-LS-1984-02-VOL-1] 16 p2488 N84-25960
Stability of pumps and compressors
16 p2489 N84-25963
Theory of rotating stall of multistage axial compressors 16 p2489 N84-25964

ENGINE INLETS

Linear theory of pressure oscillations in liquid fueled Ramjet engines
[AD-A130882] 01 p0011 N84-10071
An experimental investigation into the forebody and engine inlet airflow characteristics of a photographic reconnaissance window pallet on the RF/A-18 aircraft
[AD-A132271] 04 p0481 N84-13167
Theoretical and experimental engine-inlet flow fields for fighter forebodies
[NASA-TP-2270] 08 p1097 N84-17132
Air intakes for a probative missile of rocket ramjet
[NASA-TM-77407] 09 p1251 N84-18170
Experimental investigation of tangential blowing applied to a subsonic V/STOL inlet
[NASA-TP-2297] 11 p1602 N84-20493
Experimental investigation of the internal flow field in STOL engine inlets 13 p1927 N84-22544
Mixing of swirling flows and behavior of wet flows
[AD-A138697] 13 p1989 N84-22915
Experience in engine face, non-steady, flow measurements through a side and bottom engine air inlet duct 14 p2100 N84-23600
High speed ejectors
[AD-A141562] 18 p2796 N84-27741
Instrumentation for in-flight acoustic measurements in an engine intake
[NLR-MP-83060-U] 20 p3292 N84-30898
Numerical solutions of acoustic wave propagation problems using Euler computations
[NASA-CR-172434] 22 p3645 N84-33112

ENGINE MONITORING INSTRUMENTS

Development of an instrument for real-time computation of indicated mean effective pressure
[NASA-TP-2238] 07 p0997 N84-16461
Engine reliability through bearing condition monitoring — aircraft engines
[PNR-90168] 13 p1933 N84-22570
The development of military aircraft engine monitoring systems 17 p2585 N84-26570
Instrumentation for in-flight acoustic measurements in an engine intake
[NLR-MP-83060-U] 20 p3292 N84-30898
Research study of pressure instrumentation
[NASA-CR-171143] 21 p3405 N84-31599
Research pressure instrumentation for NASA Space Shuttle main engine, modification no. 5
[NASA-CR-171128] 22 p3622 N84-32949

ENGINE NOISE

Experimental methods in compressor noise studies — jet engine tone noise 06 p0767 N84-15028
Study of noise-certification standards for aircraft engines. Volume 1: Noise-control technology for turbofan engines
[AD-A133386] 06 p0790 N84-15157
Noise levels and data analyses for small prop-driven aircraft
[AD-A134598] 07 p0952 N84-16175
Acoustic signature from flames as a combustion diagnostic tool
[AD-A136447] 09 p1278 N84-18347
Investigation of the acoustic characteristics of aircraft/engines operating in a dry-cooled jet engine maintenance test facility 10 p1513 N84-19901
Study of noise-certification standards for aircraft engines. Volume 3: Selection and evaluation of engine-noise-certification concept
[AD-A137805] 11 p1614 N84-20563
Study of stator-vane fluctuating pressures in a turbofan engine for static and flight tests
[NASA-TP-2217] 12 p1898 N84-22363
Annoyance ratings for impulse and traffic sounds presented in quiet surroundings
[IZF-1983-23] 12 p1900 N84-22373
Helicopter engine core noise
19 p3098 N84-29676
Rotorcraft noise prediction 19 p3098 N84-29677
Scope for active noise abatement in vehicle diesel engines
[BLL-M-28767-(5825.4)] 20 p3290 N84-30885
Analysis of the effect on combustor noise measurements of acoustic waves reflected by the turbine and combustor inlet
[NASA-TM-83760] 21 p3491 N84-32122
A theoretical model for the cross spectra between pressure and temperature downstream of a combustor
[NASA-TM-83671] 23 p3821 N84-34231
The Lincoln Laboratory-Aerospace Medical Research Laboratory digital speech test facility
[AD-A144303] 24 p3894 N84-34662

ENGINE PARTS

Investigation of water rotor turbofans for Cruise Missile engines, volume 2
[AD-A131168] 02 p0180 N84-11173
Development of strain tolerant thermal barrier coating systems, tasks 1 - 3
[NASA-CR-168251] 03 p0355 N84-12312
The structure and behavior of vacuum plasma sprayed overlay coatings on nickel based superalloys
[AD-A132631] 05 p0654 N84-14301
Aircraft gas turbine guide
[GE-AEG-607R(10/80)] 07 p0953 N84-16183
Recommendations for future research on fracture mechanics life technology
[NASA-CR-170904] 08 p1169 N84-17615
Acoustic emission: A brief introduction to some of its uses in the aero engine industry
[PNR-90172] 13 p1933 N84-22571
The development of advanced specimen testing and analysis techniques applied to fracture mechanics lifing of gas turbine components
[PNR-90179] 13 p1933 N84-22575
A review of advanced manufacturing technology — gas turbine components
[PNR-90194] 13 p1975 N84-22815
Laser drilling of aero engine components
[PNR-90185] 13 p1996 N84-22956
Statistics of crack growth in engine materials. Volume 2: Spectrum loading and advanced techniques
[AD-A140920] 17 p2680 N84-27072
Advanced Gas Turbine (AGT) Technology Project
[NASA-CR-174629] 18 p2849 N84-28089
Energy efficient engine: Turbine intermediate case and low-pressure turbine component test hardware detailed design report
[NASA-CR-167973] 19 p2965 N84-28789
NASA Orbit Transfer Rocket Engine Technology Program
[NASA-CR-168156] 19 p2983 N84-28901
Oxidation and corrosion resistance of candidate Stirling engine heater-head-tube alloys
[NASA-TM-83609] 19 p2992 N84-28962
Techniques for fatigue life predictions from measured strains
[NASA-CR-171118] 20 p3201 N84-30334
Property screening and evaluation of ceramic turbine materials
[AD-A142739] 21 p3343 N84-31210
Three-dimensional stress analysis using the boundary element method 21 p3421 N84-31700
Engine wear with methanol fuel in a nitrogen-free environment
[AD-A143530] 22 p3604 N84-32833

ENGINE STARTERS

Hydrazine APU starter development
[AD-A131575] 02 p0180 N84-11175
Hot gas APU starter for advanced aircraft applications
03 p0335 N84-12178
A jet fuel starter for lowest system life cycle cost
03 p0335 N84-12179
Cost efficient on board power for airline operation
03 p0335 N84-12180
The start-up of a gas turbine engine using compressed air tangentially fed onto the blades of the basic turbine
[NASA-TM-77021] 07 p1012 N84-16563

ENGINE TESTING LABORATORIES

Dynamic characteristics of a jet engine test facility air supply
[AD-A136910] 10 p1433 N84-19365

Investigation of the acoustic characteristics of aircraft/engines operating in a dry-cooled jet engine maintenance test facility 10 p1513 N84-19901
Modification of NASA Langley 8 foot high temperature tunnel to provide a unique national research facility for hypersonic air-breathing propulsion systems
[NASA-TM-85783] 16 p2454 N84-25733
Aerodynamic and Propulsion Test Unit (APTU) performance with a vitiated air heater 20 p3144 N84-29964

ENGINE TESTS
NT COLD FLOW TESTS
NT STATIC FIRING
A simulation investigation of the effects of engine-and thrust-response characteristics on helicopter handling qualities
[NASA-TM-85849] 01 p0005 N84-10034
150 hour engine test of corrosion inhibited MIL-L-23699C oil
[AD-A131633] 03 p0356 N84-12317
Engine performance monitoring: Rolls-Royce Dart and Allison T56 turbo-prop engines
[ARL-MECH-ENG-NOTE-393] 04 p0486 N84-13191
A miniature tilting pad gas lubricated bearing 06 p0819 N84-15340
Linear and nonlinear aspects of rotordynamics 06 p0929 N84-16034
High altitude aerodynamic platform concept evaluation and prototype engine testing
[NASA-TM-58256] 07 p0953 N84-16182
Free-piston Stirling engine experimental program: Part 1. Baseline test summary
[DE84-003659] 07 p1012 N84-16567
Automotive Stirling engine development program
[NASA-CR-168205] 08 p1242 N84-18117
Flight evaluation of the DEEC secondary control air-start capability
[NASA-TM-84910] 09 p1257 N84-18203
Investigation of the acoustic characteristics of aircraft/engines operating in a dry-cooled jet engine maintenance test facility 10 p1513 N84-19901
Test-engine and inlet performance of an aircraft used for investigating flight effects on fan noise
[NASA-TP-2254] 11 p1729 N84-21277
Stirling engine applications study
[PB84-148055] 12 p1823 N84-21888
Study of stator-vane fluctuating pressures in a turbofan engine for static and flight tests
[NASA-TP-2217] 12 p1898 N84-22363
Preliminary investigation of a two-zone swirl flow combustor
[NASA-TM-83637] 13 p1932 N84-22565
Rocket motor aeroacoustics 13 p1944 N84-22642
Coupling between velocity oscillations and solid propellant combustion 13 p1944 N84-22643
Fluid-dynamically coupled solid propellant combustion instability - cold flow simulation 13 p1945 N84-22644
Effect of oscillations upon velocity distributions in simulated solid propellant flow environments 13 p1945 N84-22646
Investigation of combustion characteristics of a high chamber pressure rocket motor 13 p1952 N84-22693
Fluid dynamic aspects of turbine engine testing 14 p2098 N84-23586
The new calibration tank for engine simulators at DFVLR Goettingen 14 p2099 N84-23593
The transfer function model: A computer program for determination of jet engine test cell exhaust particulates and opacity
[AD-A139222] 14 p2173 N84-24017
Preliminary flight test results of the F100 EMD engine in an F-15 airplane
[NASA-TM-85902] 15 p2262 N84-24588
Comparison of a propfan/turbofan engine by thermodynamic cycle calculation
[ESA-TT-820] 16 p2450 N84-25715
Operation and performance measurement on engines in sea-level test facilities: Introduction and general survey 16 p2452 N84-25724
Development testing: Use of sea level test beds and rigs 16 p2453 N84-25726
Instrumentation techniques in sea level test facilities 16 p2453 N84-25727
Performance derivation of turbojets and turbofans from tests in sea-level test cells 16 p2453 N84-25728
Testing of turboshaft engines 16 p2453 N84-25729
Data acquisition and processing in sea-level test beds 16 p2453 N84-25730
Uninstalled aero engine testing in operation in the Royal Air Force 16 p2453 N84-25731
Unsteady flow in turbomachinery: An overview 16 p2488 N84-25961
Brayton module development overview 18 p2874 N84-28245
Advanced Gas Turbine (AGT)
[NASA-CR-174694] 19 p3117 N84-29805
SSME modifications for on-demand launch vehicles 20 p3136 N84-29914
Shuttle payload improvement by low risk modifications to the OMS engine 20 p3138 N84-29925
Firebolt derivative/ramjet engine feasibility investigation (core engine program): Program summary 20 p3144 N84-29962
T700 engine case study report. IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A143104] 21 p3343 N84-31211
Energy efficient engine component development and integration program
[NASA-CR-173884] 22 p3536 N84-32389
Response of a small-turboshaft-engine compression system to inlet temperature distortion
[NASA-TM-83765] 23 p3694 N84-33414
Baseline performance and emissions data for a single-cylinder, direct-injected diesel engine
[NASA-TM-86873] 23 p3836 N84-34330
Identification of quasi-steady compressor characteristics from transient data
[NASA-CR-174685] 24 p3855 N84-34444

ENGINEERING
Interactive graphics for geometry modeling 12 p1873 N84-22207
Glossary of Software Engineering Laboratory terms
[NASA-TM-85606] 13 p2026 N84-23135
Determination of factors affecting performance and productivity in an engineering/design environment
[AD-A143315] 22 p3669 N84-33252
Far north as source of nonferrous metals 24 p3874 N84-34551
Energy-absorbing earcup engineering feasibility evaluation
[AD-A144179] 24 p3938 N84-34924

ENGINEERING DEVELOPMENT
U PRODUCT DEVELOPMENT

ENGINEERING DRAWINGS
Line-focusing adjustable parabolic splar-concentrating collector
[DE84-001590] 06 p0874 N84-15687
Computer-Aided Structural Engineering (CASE) project. Reference manual: Computer graphics program for generation of engineering geometry (SKETCH)
[AD-A133493] 06 p0898 N84-15828
Public announcement of flight opportunity for materials science experiments on the Spacelab Mission D1: Extract
[NASA-TM-77277] 10 p1434 N84-19378
WECS - load controlled pitch - variable load conversion to heat
[DE84-005328] 11 p1674 N84-20922
Design and development of a stand-alone concentrator photovoltaic array
[DE84-005860] 11 p1675 N84-20930
Some mathematical tools for a modeller's workbench 12 p1873 N84-22204
A microcomputer based system for analysis of line drawing quantization techniques
[AD-A138413] 12 p1883 N84-22272
The role of DBMS in design research 12 p1891 N84-22317
Design and development of a hybrid tracker point focus fresnel passively cooled concentrator photovoltaic array
[DE84-006365] 13 p2009 N84-23031
Construction of engineering drawings using a personal computer 16 p2544 N84-26329

ENGINEERING MANAGEMENT
Recommendations for NASA research and development in artificial intelligence
[NASA-CR-170585] 02 p0277 N84-11817
DRAMIN: Transferring data from the Applicon graphic system to A DRAM input file user guide
[DE83-018235] 03 p0421 N84-12753
Symposium on Computers in Civil Engineering
[CSIR-S-267] 04 p0577 N84-13806
Management information system for engineering
[DE84-001655] 05 p0760 N84-14984
Design patents
[PB83-224063] 05 p0760 N84-14985
Institute for Computer Applications in Science and Engineering (ICASE)
[NASA-CR-172304] 10 p1556 N84-20195
An introduction to human factors for engineering managers: Framework for a teaching unit
[AD-A135958] 10 p1592 N84-20428
Manual for implementing a Shared Time Engineering Program (STEP) September 1980 through September 1983
[PB84-144260] 12 p1804 N84-21765
Managers handbook for software development
[NASA-TM-85604] 13 p2028 N84-23150
Thomson semiconductors bipolar IC strategy to 1986 13 p2039 N84-23227
State of the art: Design for noise I 19 p3099 N84-29682

ENGINES
NT AIR BREATHING ENGINES
NT APOGEE BOOST MOTORS
NT ARC JET ENGINES
NT BOOSTER ROCKET ENGINES
NT BRISTOL-SIDDELEY BS 53 ENGINE
NT DIESEL ENGINES
NT DUCTED ROCKET ENGINES
NT ELECTROSTATIC ENGINES
NT ELECTROTHERMAL ENGINES
NT GAS TURBINE ENGINES
NT HELICOPTER ENGINES
NT HYDRAZINE ENGINES
NT HYDROGEN ENGINES
NT HYDROGEN OXYGEN ENGINES
NT INTERNAL COMBUSTION ENGINES
NT ION ENGINES
NT JET ENGINES
NT LIQUID PROPELLANT ROCKET ENGINES
NT MERCURY ION ENGINES
NT MICROROCKET ENGINES
NT NUCLEAR ROCKET ENGINES
NT ORBIT MANEUVERING ENGINE (SPACE SHUTTLE)
NT P-1 ENGINE
NT PISTON ENGINES
NT PLASMA ENGINES
NT PULSED JET ENGINES
NT RAMJET ENGINES
NT RESISTOJET ENGINES
NT RIT ENGINES
NT ROCKET ENGINES
NT ROTARY ENGINES
NT SOLID PROPELLANT ROCKET ENGINES
NT SPACE SHUTTLE MAIN ENGINE
NT SUPERSONIC COMBUSTION RAMJET ENGINES
NT TF-41 ENGINE
NT TURBINE ENGINES
NT TURBOFAN ENGINES
NT TURBOJET ENGINES
NT TURBOPROP ENGINES
NT UPPER STAGE ROCKET ENGINES
Technical and economic investigations of a low-temperature Rankine-cycle heat engine
[DE83-016757] 01 p0091 N84-10596
Review of Stirling-engine mathematical models
[DE83-016454] 02 p0301 N84-11974
Parametric testing and evaluation of a free-piston Stirling engine/linear-compressor system
[DE83-017282] 04 p0545 N84-13590
Calibration of engines laborstory air flow measuring devices
[AD-A137909] 11 p1660 N84-20831
Engine product performance agreements and the future
[AD-P002821] 13 p2061 N84-23366
Creep-rupture behavior of candidate Stirling engine alloys after long-term aging at 760 deg C in low-pressure hydrogen
[NASA-TM-83676] 16 p2464 N84-25793
Proceedings of the Fifth Parabolic Dish Solar Thermal Power Program
[NASA-CR-173745] 18 p2871 N84-28224
Current status of an organic Rankine cycle engine development program 18 p2872 N84-28230
Overview of advanced Stirling and gas turbine engine development programs and implications for solar thermal electrical applications 18 p2872 N84-28231
Inelastic and dynamic fracture and stress analyses 21 p3421 N84-31697
Engine wear with methanol fuel in a nitrogen-free environment
[AD-A143530] 22 p3604 N84-32833
SEAMOPT: Sterling engine optimization code
[DE84-012098] 22 p3605 N84-32840
Heat transfer characteristics of regenerator matrix (case of packed wire gauzes)
[NASA-TM-77448] 24 p3899 N84-34693

ENGLISH CHANNEL
Two different aspects of phytoplankton bloom seen by satellite (CZCS) in the western English Channel --- coastal zone color scanner (CZCS) 03 p0399 N84-12604
Waves recorded off the Eddystone lighthouse. Data for September 1978 to August 1981 at position 50 deg 10 min N, 004 deg 15 min W: Summary analysis and interpretation report
[IOS-132] 13 p2019 N84-23090

ENGLISH LANGUAGE
Language processing for speech understanding
[AD-A131281] 01 p0065 N84-10423

A linguistic overview of the Nigel text generation grammar
[AD-A134491] 07 p1057 N84-16849
Extending grammars to new domains
[AD-A137110] 10 p1567 N84-20266
CLARIFY: An on-line guide for revising technical prose
[N-2037-RC] 15 p2417 N84-25509
German-English technical glossary
[DE84-007976] 15 p2418 N84-25521
The design of an English word-processor for scientific and technical use in which superscripts, subscripts and Greek characters are operated in one-touch, 1
23 p3741 N84-33709
The design of an English word-processor for scientific and technical use in which superscripts, subscripts and Greek characters are operated in one-touch, 2
23 p3741 N84-33710

ENGRAVING
Incorporation of an Nd:YAG laser engraver into Mound's machining operations
[DE84-014339] 23 p3755 N84-33801

ENHANCEMENT
U AUGMENTATION

ENLARGING
U EXPANSION

ENSKOG-CHAPMAN THEORY
U CHAPMAN-ENSKOG THEORY

ENSTROPHY
U VORTICITY

ENTHALPY
Enthalpy - improved dielectric insulation for superconducting wires
[AD-A131857] 03 p0356 N84-12316
Oak Ridge heat-pump models. Part 1. A steady-state computer design model for air-to-air heat pumps
[DE84-001577] 04 p0535 N84-13519
Thermal modeling of laser welding with a quasi-1-dimensional approach
[DE84-001292] 04 p0544 N84-13585
The practical use of data as to the solution enthalpies of molten Fe-V-Si
[BLL-M-35430-(5828.4)] 08 p1129 N84-17342
Asymptotic condensed phase analysis of deflagrating monopropellants with subsurface exothermicity
13 p1946 N84-22656
Analysis of production data from the Krafla geothermal field, Iceland
[DE84-006881] 13 p2006 N84-23014
Analysis and calculation of macrosegregation in a casting ingot, exhibits C and E
[NASA-CR-171030] 14 p2127 N84-23752
Development of media for dynamic latent heat storage for the low temperature range. Part 1: Thermal analysis of selected salt hydrate systems
[DFVLR-FB-84-03-PT-1] 15 p2362 N84-25170
Introduction to unsteady flow in turbomachines
16 p2489 N84-25962
Determination of thermodynamic characteristics of the barium dissolution process in liquid iron
[BLL-M-35634-(5828.4)] 22 p3551 N84-32481
Heat-of-mixing experiments for liquefied gases
[PB84-215094] 22 p3562 N84-32560
Computer simulation of the heavy-duty turbo-compounded diesel cycle for studies of engine efficiency and performance
[NASA-CR-174755] 22 p3676 N84-33306
Enthalpy damping for the steady Euler equations
[NASA-TM-86008] 24 p3950 N84-35009

ENTIRE FUNCTIONS
On a fundamental inequality and the singularities of an analytic function defined by the LC-Dirichletian element
13 p2032 N84-23177
Annals of the Fourier Institute, volume 33, no. 3
[ISSN-0373-0956] 14 p2210 N84-24264
The deficiency of entire functions with Fejer gaps
14 p2210 N84-24267
Entire functions for the logistic map 2
[CWI-AM-R8404] 19 p3092 N84-29636
The growth of plurisubharmonic functions in infinite domain 22 p3634 N84-33033
An application of fine potential theory to prove a Phragmen Lindeloef theorem 22 p3635 N84-33043

ENTRAINMENT
Mathematical model of electrostatic precipitation for the Texas Instruments Programmable 59 calculator
[PB83-261669] 04 p0560 N84-13695
Experimental study of bubble cavities attached to a rotating shaft in a reservoir
[NASA-TM-83586] 08 p1157 N84-17533
Unsteady viscous transonic flow computations using LTRAN2-NLR code coupled with Green's lag-entrainment method
[NLR-MP-82052-U] 09 p1253 N84-18181
The influence of large-scale motion on turbulent transport for confined coaxial jets
11 p1610 N84-20542
Problems with the process partitioning theory of stratocumulus entrainment 12 p1857 N84-22099
Can cloud-top entrainment promote cloud growth?
12 p1857 N84-22100
Entrainment and deposition of drops in a dispersed 2-phase flow: An experimental investigation
[CFD/83/6] 18 p2838 N84-28013
Lidar observations and modeling of atmospheric mixed layer entrainment processes 21 p3437 N84-31807
Static thrust augmentation of rocket motors by air entrainment
[AD-A143179] 22 p3543 N84-32430

ENTROPY
Algorithms for single-signal and multisignal minimum-cross-entropy spectrum analysis
[AD-A132400] 04 p0520 N84-13420
On a relation between Maximum-Likelihood classification and Minimum-Cross-Entropy classification
[AD-A132237] 04 p0521 N84-13426
Eclipse mapping of accretion disks in cataclysmic binaries 04 p0618 N84-14080
When is an internal rotation a vibration?
[AD-A132974] 05 p0744 N84-14890
The theory of an active magnetic regenerative refrigerator 06 p0821 N84-15351
Flow trajectories, mixing and entropy fluxes in a turbine cascade 07 p0955 N84-16193
Maximum entropy methods in electromagnetic/geophysical/ultrasonic imaging
[DE84-002793] 07 p0994 N84-16445
Vapor-liquid phase separator studies
[NASA-CR-166545] 08 p1156 N84-17527
Entropy production during fatigue as a criterion for failure. The critical entropy threshold: A mathematical model for fatigue
[AD-A134767] 08 p1171 N84-17628
Maximum entropy reconstruction of a volume anomaly from pulse scatter data
[DE84-002463] 08 p1237 N84-18084
Convergence of generalized MUSCL schemes
[NASA-CR-172306] 10 p1420 N84-19286
Entropy condition satisfying approximations for the full potential equations of transonic flow
[NASA-TM-85751] 11 p1601 N84-20485
The influence of specific reactant-solvent interactions on intrinsic activation entropies for outer-sphere electron transfer reactions
[AD-A139081] 13 p1957 N84-22725
Riemann solvers, the entropy condition and high resolution difference approximations
[AD-P002945] 14 p2198 N84-24185
Optimation of cooled shields in insulations
[NASA-CR-166583] 18 p2836 N84-27999
Second-law efficiency of solar-thermal cavity receivers
[NASA-CR-173732] 18 p2871 N84-28223
Magnetic refrigeration: The promise and the problems
[DE84-007481] 19 p3002 N84-29028
A limit theorem on characteristic functions via an extremal principle
[AD-A141390] 19 p3083 N84-29567
Solvent, ligand, and ionic charge effects on reaction entropies for simple transition-metal redox couples
[AD-A142374] 20 p3147 N84-29984
Predictions of entropies of molecules and liquids
[DE84-010504] 21 p3507 N84-32216
Seasonal precipitation forecasting with a 6 to 7 month lead time in the Pacific Northwest using an information theoretic model
[PB84-207018] 22 p3626 N84-32979

ENTROPY (STATISTICS)
NT MAXIMUM ENTROPY METHOD
High resolution schemes and the entropy condition
[NASA-CR-172218] 01 p0128 N84-10836
High resolution spectrum analysis by dominant mode enhancement 09 p1401 N84-19153
Study on spectral/radiometric characteristics of the Thematic Mapper for land use applications
[E84-10130] 15 p2357 N84-25140
An entropy maximum principle and instantaneous failure statistics
[AD-A143299] 22 p3607 N84-32851

ENTRY GUIDANCE (STS)
Shuttle Performance: Lessons Learned, part 1
[NASA-CP-2283-PT-1] 01 p0018 N84-10115
Shuttle Performance: Lessons Learned, part 2
[NASA-CP-2283-PT-2] 01 p0023 N84-10144

ENVIRONMENT EFFECTS
Snow and ice research: An assessment
[PB83-231662] 01 p0101 N84-10656
Assessment of the environmental aspects of the DOE phosphoric acid fuel cell program
[NASA-CR-168131] 01 p0102 N84-10663
Direct biological effects of increased atmospheric carbon dioxide levels
[PB83-224360] 01 p0115 N84-10749
Evaluation and prediction of long-term environmental effects of nonmetallic materials, second phase
[NASA-CR-170915] 02 p0244 N84-11595
International carbon dioxide-related activities: The international organizations involved and US bilateral arrangements
[DE83-016013] 02 p0245 N84-11602
Ground and inflight operational effects of APU's
03 p0335 N84-12182
Scale modelling and full scale measurement techniques with particular reference to antennas in their operational environments 03 p0364 N84-12368
Operational utilization of remote sensing in a study of the impact of disposal of urban waste at sea
03 p0400 N84-12611
Development of a data base for carbon dioxide releases resulting from conversion of land to agricultural uses
[DE83-015726] 03 p0402 N84-12626
Activities report of the Laboratory of Environmental Physics and Chemistry 03 p0450 N84-12963
Studies of emotional instability in smoke from fires: Decrease of thinking powers and of memory in fire smoke 04 p0511 N84-13355
Environmental impact research program. Two-equation, depth-integrated turbulence closure for modeling geometry-dominated flows
[AD-A132347] 04 p0533 N84-13505
The effects of environment and dwell on high temperature fatigue crack growth of 2 1/4 Cr - 1 Mo steel
[AD-A132147] 04 p0549 N84-13617
Atmospheric dispersion of ammonia: An ammonia fog model
[DE84-000165] 04 p0560 N84-13689
Impact of enhanced solar UV-B radiation upon the marine ecosystem
[PB83-247411] 04 p0560 N84-13694
Use of fauna as biomonitors
[DE83-016082] 04 p0571 N84-13762
CEREAS: An interactive computer-mapping system for environmental assessments
[DE83-017927] 04 p0585 N84-13864
Air pollution, environmental policy, and economics in the Federal Republic of Germany
[GHK-07] 05 p0701 N84-14601
Response to W. W. Kellogg carbon dioxide and climatic change: Implications for mankind's future
[DE84-002723] 06 p0882 N84-15737
Interaction of the space shuttle orbiter with the ionospheric plasma 08 p1117 N84-17265
Environmental factors as a source of failure in integrated circuits 08 p1168 N84-17604
Geological and geochemical controls on the chemical evolution of subsurface water in undisturbed and surface-mined landscapes in western North Dakota
[PB84-126952] 08 p1190 N84-17685
Evaluation of wind field interpolation schemes used in studies of regional-scale pollutant transport
[DE84-003634] 08 p1182 N84-17699
Can we delay a greenhouse warming
[DE84-003390] 08 p1183 N84-17703
Air pollution effects on terrestrial ecosystems
[PB84-128313] 08 p1184 N84-17712
Acid precipitation in southeastern Wyoming
[PB84-132521] 10 p1533 N84-20039
Symposium on Ocean Monitoring held in Tallinn
11 p1670 N84-20895
Influence of stratospheric aerosols forming during combustion of rocket fuels on Earth's albedo
11 p1670 N84-20899
Arctic Terrestrial Environmental Research Programs of the Office of Energy Research, Department of Energy: Evaluations and recommendations. Appendix B: Components of an Arctic Terrestrial Environmental Research Program
[PB84-129766] 11 p1672 N84-20913
Wind energy systems program summary, fiscal years 1981 and 1982
[DE84-002958] 11 p1673 N84-20919
FORAST: A regional scale study of forest responses to air pollutants
[DE84-003269] 11 p1675 N84-20933
Acid rain information book
[DE83-013693] 12 p1845 N84-22028
Wind power generation design considerations
[AD-A138841] 13 p2009 N84-23029
A study of MX environmental management information system (MXEMIS) needs
[AD-A139025] 13 p2067 N84-23404
Vocoder analysis based on properties of the human auditory system
[AD-A138660] 14 p2141 N84-23837

Environmental satellite imagery, October 1983
[PB84-160001] 14 p2181 N84-24068
Dynamics and control of flexible orbiting systems
14 p2245 N84-24481
Space environment effects on fiber optics systems
15 p2279 N84-24689
Impact resistance of fiber composites: Energy absorbing mechanisms and environmental effects
[NASA-TM-83594] 15 p2284 N84-24712
The industry's materials: SNIAS and general conditions of its environment
[SNIAS-832-502-101] 16 p2475 N84-25865
Space systems environmental interactions technology program
[AD-P002125] 16 p2525 N84-26211
Ground and inflight operational effects of APU's
[VFW-30/83-O] 16 p2562 N84-26438
The certification of polycarbonate transparencies: An appeal for reasonable requirements
[AD-P003225] 17 p2596 N84-26638
Corrosion fatigue of high strength fastener materials in seawater
[NASA-CR-174677] 17 p2723 N84-27328
Causes and effects of changes in stratospheric ozone: Update 1983
[PB84-176072] 17 p2729 N84-27368
Canyon and slope processes study. Volume 1: Executive summary
[PB84-169481] 17 p2738 N84-27391
Preliminary indications of water film distribution and thickness on an airfoil in a water spray
[NASA-TM-85796] 18 p2785 N84-27677
Assessing the impact of climatic change in cold regions
[IIASA-SR-84-1] 19 p3057 N84-29394
Environmental effects of increasing the amount of district heating in the Netherlands
[S/T-REPT-VOL-1-NO-5] 20 p3238 N84-30558
Air pollution effects on aquatic ecosystems: Summary of a symposium
[PB84-185214] 20 p3239 N84-30562
Identification and preliminary characterization of global water resource issues which may be affected by CO2-induced climate change
[DE84-011127] 20 p3246 N84-30604
Activities in applied systems analysis
21 p3475 N84-32026
The climatic impact of volcanic activity
22 p3624 N84-32963
Noise measurement flight test: Data-analyses Aerospatiale SA-365N Dauphin 2 helicopter
[AD-A143229] 22 p3652 N84-33151
Physiological-hygienic criteria of medical selection of military servicement for work in a hot climate
23 p3807 N84-34135
The functional condition of seamen under conditions of the southern maritime area 23 p3807 N84-34137
The high altitude pollution program (1976 - 1982)
[AD-A144390] 24 p3917 N84-34800

ENVIRONMENT MANAGEMENT

An inventory of state natural resources information systems --- including Puerto Rico and the U.S. Virgin Islands
[E84-10072] 07 p1020 N84-16619
A study of MX environmental management information system (MXEMIS) needs
[AD-A139025] 13 p2067 N84-23404
Man and the biosphere program
[GPO-28-292] 15 p2366 N84-25193
Design, test, and evaluation of an Air Force environmental model and data exchange
[AD-A143226] 22 p3638 N84-33060

ENVIRONMENT MODELS

USAF Space Shuttle dispersion modelling
[AD-A132957] 05 p0700 N84-14594
A program of research in environmental modeling
[NASA-CR-173281] 08 p1182 N84-17697
Remote sensing of Earth terrain
12 p1831 N84-21938
Discrete random media techniques for microwave modeling of vegetated terrain 12 p1832 N84-21939
Measuring and modeling of the dielectric properties and attenuation of vegetation 12 p1832 N84-21940
Effects of vegetation canopy structure on microwave scattering 12 p1832 N84-21942
Development of standard procedures for evaluating oxygen transfer devices
[PB84-147438] 12 p1846 N84-22032
Observation model and parameter partials for the JPL VLBI parameter estimation software MASTERFIT-V1.0
[NASA-CR-173455] 12 p1879 N84-22245
Geologic studies of outer solar system satellites: Iapetus and Europa 13 p2075 N84-23448
Evaluation of spatial, radiometric and spectral Thematic Mapper performance for coastal studies
[E84-10118] 14 p2167 N84-23978
Application of remote sensing to state and regional problems
[E84-10128] 14 p2168 N84-23986
Technology transfer of the air quality assessment model
[AD-A139582] 14 p2173 N84-24018
Transmission loss calculations for systems with antennas close to the ground using a digital data base
[LFD-218] 15 p2318 N84-24914
Environmental modeling under uncertainty: Monte Carlo simulation
[IIASA-RR-83-28] 15 p2365 N84-25192
Analysis of permafrost depths on Mars
15 p2426 N84-25569
TOPEX orbital radiation study
[NASA-TM-85447] 16 p2582 N84-26562
Evaluation of spatial, radiometric and spectral Thematic Mapper performance for coastal studies
[E84-10159] 17 p2709 N84-27251
10: Models of volcanism and interior structure
17 p2777 N84-27634
Impact of vegetative hydrocarbon emissions on ambient ozone levels and control program development
[DE84-008515] 18 p2878 N84-28273
The problem of climate and climate variations
[WCP-72] 18 p2886 N84-28312
NASA pilot land data system
21 p3427 N84-31741
Environmental impact research program. An implicit, wiggle-free, and accurate upstream finite-difference algorithm for the 1-dimensional transport-diffusion equation
[AD-A143141] 21 p3436 N84-31802
Two-dimensional finite amplitude mountain waves in the presence of moisture 22 p3622 N84-32947

ENVIRONMENT POLLUTION

NT AIR POLLUTION
NT GLOBAL AIR POLLUTION
NT INDOOR AIR POLLUTION
NT OIL POLLUTION
NT WATER POLLUTION

Advanced technologies for the recovery, disposal, and reuse of carbon dioxide for atmospheric control
[DE83-016371] 03 p0347 N84-12256
Environmental monitoring instrumentation and monitoring techniques for space shuttle launches
[AD-A136594] 09 p1342 N84-18766
An explosive driven shock tube for verifying survival of radioisotope heat sources during space shuttle launch accident 10 p1509 N84-19876
Comprehensive assessment of the specific compounds present in combustion processes. Volume 1: Pilot study of combustion emissions variability
[PB84-140870] 11 p1630 N84-20665
East Europe report: Scientific affairs
[JPRS-ESA-84-009] 14 p2136 N84-23802
A research program in determination of heavy metals in sediments and benthic species in relation to nuclear power plant operation
[NASA-CR-173537] 15 p2366 N84-25195
The lead file: Car fuel additives
[INFORM-NOTE-29] 17 p2725 N84-27341
Surplus Facilities Management Program. Post-remedial-action survey report for SNAP-8 Experimental Reactor Facility, building 010 site, Santa Susana Field Laboratories, Rockwell International, Ventura County, California
[DE84-009591] 21 p3497 N84-32165

ENVIRONMENT PROTECTION

Atlas of source emission particles
[PB83-229013] 01 p0103 N84-10672
A comparative evaluation of quantitative decision-making approaches
[PB83-214114] 01 p0159 N84-11051
Two types of values and their assessment by the collective interest
[DE83-012064] 03 p0460 N84-13031
Proceedings of the 18th International Conference on Coastal Engineering
[ISBN-0-7988-2553-7] 08 p1194 N84-17783
Department of Housing and Urban Development-Independent Agencies Appropriation Bill, 1985 15 p2420 N84-25530
Cogeneration: Status and environmental issues
[PB84-155175] 17 p2723 N84-27334
The lead file: Car fuel additives
[INFORM-NOTE-29] 17 p2725 N84-27341
Making appropriations for the Department of Housing and Urban Development, and for sundry independent agencies, boards, commissions, corporations, and offices for the fiscal year ending September 30, 1985, and for other purposes
[H-REPT-98-867] 17 p2772 N84-27603
US EPA (Environmental Protection Agency) regional oxidant model, background and overview
[PB84-201680] 21 p3437 N84-31806
The effect of aircraft with noise certificates according to class ICAO Annex 16 on the determination of noise protection domains following the law on protection against aircraft noise
[MPIS-117/1983] 23 p3821 N84-34234

ENVIRONMENT SIMULATION

NT ACOUSTIC SIMULATION
NT ALTITUDE SIMULATION
NT SPACE ENVIRONMENT SIMULATION
NT THERMAL SIMULATION
NT WEIGHTLESSNESS SIMULATION

The hydraulic multiaxes vibrator: Its capabilities to simulate real mechanical environments and to verify aerospace structures 03 p0339 N84-12196
Results from wind tunnel and artificial rainfall tests of the modified scan sensor
[AD-A133238] 06 p0792 N84-15162
Properties of simulated comet mantle
13 p2076 N84-23452
Wind abrasion on Venus: A means for experimental investigations 13 p2076 N84-23455
Aeolian processes on Venus
13 p2076 N84-23456
Assessment of ozone as a surrogate for other products of atmospheric photochemical reactions
[PB84-155852] 14 p2177 N84-24042
The wiper abrasion and rain erosion resistance of transparent materials and coatings for aircraft glazing
[AD-P003227] 17 p2596 N84-26640
Evolution of structure in the PLACES barium clouds
[DE84-010996] 20 p3242 N84-30583
Simulations of erosion/corrosion surface chemical reactions with a laser beam
[AD-A143001] 21 p3366 N84-31354

ENVIRONMENT SIMULATORS

NT SOLAR SIMULATORS
NT SPACE SIMULATORS

Nitrogen threshold experiment
15 p2427 N84-25578

ENVIRONMENTAL CHAMBERS

U TEST CHAMBERS

ENVIRONMENTAL CHEMISTRY

NT AEROTHERMOCHEMISTRY
NT ATMOSPHERIC CHEMISTRY
NT BIOCHEMISTRY
NT BIOGEOCHEMISTRY
NT ENZYMOLOGY
NT GEOCHEMISTRY
NT PHYSIOCHEMISTRY

Environmental behavior of Technetium-99
[DP-1644] 06 p0805 N84-15245
Application of a spray deposition method for reversed phase liquid chromatography-mass spectrometry
[PB84-159029] 14 p2124 N84-23730
Computer implementation of a globally averaged model of the world carbon cycle
[DOE/NBB-0062] 23 p3793 N84-34055

ENVIRONMENTAL CONTROL

To quench our thirst: The present and future status of freshwater resources of the United States, part 3
[DE83-016791] 03 p0401 N84-12625
NBS (National Bureau of Standards) Workshop: Environmental Control for Archival Records Storage
[PB83-242230] 03 p0460 N84-13026
The Spacelab Atmosphere Storage and Control Section (ASCS) and its orbiter common hardware flight performance 10 p1443 N84-19427
Humidity control: The pattern for change
11 p1639 N84-20716
Heat rejection system technology demonstration model --- spacecraft thermal control
[TD-RP-AI-004] 23 p3701 N84-33459
System for the removal of airborne contaminants from aircraft environmental control systems
[AD-D011172] 23 p3727 N84-33615

ENVIRONMENTAL ENGINEERING

Industrial hygiene data for F-16 aircraft refueling inside closed aircraft shelters. Supplementary
[AD-A138364] 12 p1865 N84-22154
DOE-2, supplement, version 2.1B
[LBL-8706-REV-3-SUPPL] 16 p2519 N84-26171
Studies of US universities' research equipment needs inconclusive
[AD-A141784] 19 p2970 N84-28821
Daylight availability as a function of atmospheric conditions
[DE84-007973] 20 p3247 N84-30609

ENVIRONMENTAL LABORATORIES

The Large Space Simulator (LSS) at ESA/ESTEC (a summary of the main characteristics)
10 p1448 N84-19458
The new space simulation and thermal vacuum facility WSA/TVA 10 p1448 N84-19460
European Space Tribology Laboratory: Facilities, services, capabilities
[ESA-BR-12] 20 p3199 N84-30317

ENVIRONMENTAL MONITORING
Statistical correlations of surface wind data: A comparison between a National Weather Service station and a nearby aerometric network
[PB83-237263] 02 p0257 N84-11680
Development of instrumentation for monitoring carbon fiber emission
[PB83-233726] 03 p0378 N84-12460
Remote Sensing Applications for Environmental Studies — conferences
[ESA-SP-188] 03 p0395 N84-12579
Use of remote sensing methods for the ecological mapping project of the European community
03 p0395 N84-12580
Application of high resolution satellite data to coastal zones: SPOT simulations during ecological survey of the Britanny coast 03 p0397 N84-12591
Inventoring and monitoring of landscape as a natural and cultural resource 03 p0397 N84-12594
An operational remote sensing methodology for the detection, inventory and environmental monitoring of waste disposal sites 03 p0398 N84-12601
Satellite remote sensing, environmental monitoring and the offshore oil and gas industries
03 p0398 N84-12603
TRAN-STAT (statistics for environmental studies). Issue no. 24: Field sampling designs, simple random and stratified random sampling
[DE83-016826] 03 p0427 N84-12803
Satellite activities of NOAA (National Environmental Satellite Data and Information Service) 1982
[PB83-252510] 04 p0568 N84-13747
Code BETAL to calculation Alpha/Beta activities in environmental samples
[JEN-549] 04 p0578 N84-13816
CEREAS: An interactive computer-mapping system for environmental assessments
[DE83-017927] 04 p0585 N84-13864
Journal of Research of the National Bureau of Standards. Volume 88, Number 3, May-June 1983
[PB84-115799] 08 p1127 N84-17328
Extremely Low Frequency (ELF) communications system ecological monitoring program: Plan and summary of 1982 progress
[AD-A135482] 08 p1144 N84-17445
Remote sensing: New satellite systems and potential applications — conferences
[ESA-SP-205] 08 p1174 N84-17650
Typical remote sensing data products
08 p1175 N84-17656
Coastal zones inventory by high resolution satellites
08 p1176 N84-17661
Environmental Radiation Data Report 33, January - March 1983
[PB84-104785] 08 p1183 N84-17708
Environmental Radiation Data Report 31, July - September 1982
[PB84-104801] 08 p1183 N84-17709
Environmental Radiation Data Report 32, October December 1982
[PB84-104793] 08 p1184 N84-17710
EPA (Environmental Protection Agency) model development for stable plume impingement on elevated terrain obstacles
[PB84-130491] 10 p1533 N84-20038
MA-2026 environmental monitoring system
[DE84-006222] 11 p1676 N84-20938
Operational uses for a solar soft X-ray imaging telescope
[PB84-137536] 11 p1756 N84-21466
Simulation studies of proposed observing systems and their impact on numerical weather prediction
12 p1850 N84-22050
Directory of research publications
[AD-A138224] 12 p1860 N84-22119
Proceedings of the Conference on Cooperative Climate Services
[PB84-152061] 12 p1863 N84-22137
Compliance monitoring of purgeable organics with mass spectrometry
[PB84-157916] 14 p2124 N84-23733
Enviropod handbook: A guide to preparation and use of the Environmental Protection Agency's light-weight aerial camera system — Weber River, Utah
[E84-10123] 14 p2168 N84-23982
EPA Enviropod. A summary of the use of the Enviropod under a Memorandum of Understanding among EPA Region 8, the State of Utah, and the University of Utah Research Institute
[E84-10124] 14 p2168 N84-23983
Identifying environmental features for land management decisions
[E84-10125] 14 p2168 N84-23984
State remote sensing (LANDSAT) programs catalog
[E84-10127] 14 p2168 N84-23985
Atmospheric environment for Space Shuttle (STS-9) launch
[NASA-TM-82572] 14 p2179 N84-24047
EPA (Environmental Protection Agency) complex terrain model development description of a computer data base from small hill impaction study no. 1, Cinder Cone Butte, Idaho
[PB84-161439] 14 p2182 N84-24072
Man and the biosphere program
[GPO-28-292] 15 p2366 N84-25193
Assessing the impact of climatic change in cold regions
[IIASA-SR-84-1] 19 p3057 N84-29394
Programming for energy monitoring/display system in multicolor lidar system research
[NASA-CR-165875] 19 p3073 N84-29498
Environmental Research Laboratories publication abstracts, FY 1983
[PB84-189323] 21 p3450 N84-31892
Review of existing environmental and natural resource data bases
[DE84-012039] 21 p3519 N84-32292
Satellite activities of NOAA, 1983
22 p3540 N84-32406
Field surveys of carbon monoxide in commercial settings using personal exposure monitors
[PB84-211291] 22 p3599 N84-32797
National environmental monitoring
[GPO-28-186] 22 p3619 N84-32933
Locating and estimating air emissions from sources of acrylonitrile
[PB84-200609] 22 p3619 N84-32934
Locating and estimating air emissions from sources of carbon tetrachloride
[PB84-200625] 22 p3620 N84-32936
Spaceborne lidar applications to meteorology and environmental studies 24 p3904 N84-34725

ENVIRONMENTAL QUALITY
NT AIR QUALITY
NT WATER QUALITY
Satellite activities of NOAA (National Environmental Satellite Data and Information Service) 1982
[PB83-252510] 04 p0568 N84-13747
Department of Housing and Urban Development-Independent Agencies Appropriations Bill, 1985
[S-REPT-98-506] 16 p2568 N84-26476
Department of Housing and Urban Development-Independent Agencies Appropriation Act, 1985 16 p2568 N84-26480

ENVIRONMENTAL RESEARCH SATELLITES
Potential utility of future satellite magnetic field data
[NASA-CR-175230] 15 p2279 N84-24691

ENVIRONMENTAL SURVEYS
Helicopter noise survey performed at Parker Center, Pasadena, and Anaheim, California, on February 10-14, 1983
[AD-A130962] 02 p0288 N84-11887
STS-5 (Space Transport System-5) fish kill, Kennedy Space Center, Florida
[AD-A132958] 05 p0700 N84-14595
Acid precipitation in southeastern Wyoming
[PB84-132521] 10 p1533 N84-20039
Studies to improve environmental assessments of sonic booms produced during air combat maneuvering
[AD-A138254] 12 p1899 N84-22368
Area equivalent method VISICALC (trade name). Users' guide
[AD-A141430] 19 p3084 N84-29572

ENVIRONMENTAL TEMPERATURE
U AMBIENT TEMPERATURE

ENVIRONMENTAL TESTS
NT COLD WEATHER TESTS
NT CORROSION TESTS
NT HIGH TEMPERATURE TESTS
NT LOW TEMPERATURE TESTS
NT SALT SPRAY TESTS
NT UNDERWATER TESTS
Fatigue crack growth and low cycle fatigue of two nickel base superalloys
[NASA-CR-174534] 01 p0042 N84-10267
Effect of environment and materials properties on the friction and wear behavior of precious metal electrical contact alloy couples
[DE83-010403] 02 p0215 N84-11409
Aircraft transparency testing methodology and evaluation criteria. Part 2: Methodology development for improved durability
[AD-A131928] 03 p0331 N84-12157
Aircraft transparency testing methodology and evaluation criteria. Part 1: Test methods and information analysis
[AD-A131927] 03 p0331 N84-12158
The effect of environment on the mechanical behavior of AS/3501-6 graphite/epoxy material
[AD-A133331] 06 p0799 N84-15205
The influence of the environment on the mechanical characteristics of composite materials: Design considerations --- polymer matrix composites
[INTA-INFORME-I-1/221/720/83047]
06 p0811 N84-15281
Hygrothermal effects in continuous fibre reinforced composites. Part 4: Mechanical properties 2 - fatigue and time-dependent properties
[AD-A135768] 09 p1276 N84-18333
Analysis and testing of the thermal design of the electronic package in the US Army's Upgraded Logic Module (ULM)
[AD-A135998] 09 p1308 N84-18551
Development and qualification of a 20 GHz/30 W traveling wave tube — for satellites
[BMFT-FB-W-83-023] 10 p1488 N84-19727
Thermal vacuum test facility
[AD-A137712] 11 p1620 N84-20607
NASA flight electronics environmental stress screening survey
[NASA-CR-173472] 12 p1841 N84-22002
Space aging of solid rocket materials (P0005)
15 p2275 N84-24659
Cracking threshold on steel used in aeronautical construction: Influence of the environment
[SNIAS-832-551-101] 16 p2465 N84-25797
Protective linear materials for transparent plastics
[AD-P003204] 17 p2592 N84-26617
Aircraft transparency testing methodology
[AD-P003213] 17 p2594 N84-26626
Stress corrosion cracking of austenitic stainless steels in sea water: An investigation of test methods
[BLL-RISLEY-TRANS-4568-(9091.9)]
22 p3551 N84-32478
Qualification testing and electrical measurement experience: A manufacturer's view
22 p3585 N84-32705
Natural weathering of selected organic matrix composites
[AD-A144091] 23 p3711 N84-33527
Testing of candidate batteries for global positioning system 23 p3736 N84-33677
Reserve Li/SOCl2 battery safety testing
23 p3736 N84-33678
Photovoltaic module encapsulation design and materials section, volume 2
[NASA-CR-173902] 23 p3786 N84-34013
Ground exposure of composite materials for helicopters
[NASA-TM-86311] 24 p3879 N84-34577
An experimental approach to evaluating environmental degradation mechanisms in bisphenol-A polycarbonate films on metallic substrates
[SERI/TR-255-1602] 24 p3917 N84-34798

ENVIRONMENTS
NT AEROSPACE ENVIRONMENTS
NT CHROMOSPHERE
NT DEEP SPACE
NT EARTH ENVIRONMENT
NT EXTRATERRESTRIAL ENVIRONMENTS
NT GEOMAGNETIC TAIL
NT HIGH ALTITUDE ENVIRONMENTS
NT HIGH GRAVITY ENVIRONMENTS
NT HIGH TEMPERATURE ENVIRONMENTS
NT ICE ENVIRONMENTS
NT INTERPLANETARY SPACE
NT INTERSTELLAR SPACE
NT IONOSPHERE
NT JUPITER ATMOSPHERE
NT LOW TEMPERATURE ENVIRONMENTS
NT LOWER IONOSPHERE
NT MAGNETOPAUSE
NT MAGNETOSPHERE
NT MARINE ENVIRONMENTS
NT MARS ATMOSPHERE
NT MARS ENVIRONMENT
NT MESOPAUSE
NT MESOSPHERE
NT MIDLATITUDE ATMOSPHERE
NT PLANETARY ATMOSPHERES
NT PLANETARY ENVIRONMENTS
NT SATELLITE ATMOSPHERES
NT SATURN ATMOSPHERE
NT SOLAR ATMOSPHERE
NT SPACECRAFT ENVIRONMENTS
NT STELLAR ATMOSPHERES
NT THERMAL ENVIRONMENTS
NT VENUS ATMOSPHERE
Organizational-climate dimensions: A conceptual and judgmental analysis
[AD-A132898] 06 p0934 N84-16068
Electro-optical transmission and liquid water content of fogs and clouds
[AD-A134307] 07 p1039 N84-16738

Inorganic analysis in a controlled ecological life support system
[NASA-CR-173299] 08 p1204 N84-17852
Classification of coastal environments, shorezone profile dynamics
[AD-A139947] 15 p2373 N84-25240
A software package for administering and monitoring the Environmental Symptoms Questionnaire (ESQ-3)
[AD-A140288] 16 p2538 N84-26293
The influence of cardiorespiratory fitness on the decrement in maximal aerobic power at high altitude
[AD-A142218] 19 p3066 N84-29452
Environmental assisted fracture of cast and wrought steels in brine
[DE84-011870] 20 p3158 N84-30058
Wind energy: a brief assessment
[DE84-012208] 21 p3434 N84-31788
A probabilistic model for predicting the duration of levels of electromagnetic transmission in falling snow: Environmental research papers
[AD-A143318] 22 p3577 N84-32655
Determination of factors affecting performance and productivity in an engineering/design environment
[AD-A143315] 22 p3669 N84-33252
Methods for estimating physicochemical properties of inorganic chemicals of environmental concern
[AD-A144154] 24 p3917 N84-34799
Handbook of geophysics and space environments. Chapter 16: Water vapor, precipitation, clouds and fog, revised
[AD-A144176] 24 p3934 N84-34901
Study of annoyance due to urban automobile traffic. Annex 5: Sociological study
[NASA-TM-77515] 24 p3968 N84-35124

ENZYME ACTIVITY
NT FERMENTATION
Energy metalbolism enzymes in simulation of some spaceflight factors 02 p0260 N84-11704
Effect of eleuterococcus extract on recovery processes in rats following seven-day hypokinesia 02 p0260 N84-11706
Calcium modulation of plant plasma membrane-bound ATPase activities 02 p0263 N84-11723
Kinetic and spectroscopic studies of cytochrome b-563 in isolated cytochrome b/f complex and in thylakoid membranes
[DE83-017982] 04 p0571 N84-13760
Respiration of roots response to low O2 stress
[DE83-017495] 04 p0572 N84-13766
Studies of proteinograms in dermatophytes by disc electrophoresis. 1. Protein bands in relation to growth phase
[NASA-TM-77095] 07 p1042 N84-16755
Nitrite reduction in paracoccus halodenitrificans: Evidence for the role of a cd-type cytochrome in ammonia formation
[NASA-TM-85883] 10 p1545 N84-20125
A study on the gastrointestinal hormones and the gastric acid secretion during physical stress in man
[NDRE/PUBL-83/1001] 10 p1546 N84-20136
Oxidative enzyme activity in rat blood plasma and subcellular fraction of liver following flight aboard Cosmos-936 biosatellite 15 p2377 N84-25265
Use of sperm enzymes to detect genotoxic agents
[AD-A142724] 20 p3260 N84-30691

ENZYMES
NT CHOLINESTERASE
NT COENZYMES
NT LYSOZYME
NT TRYPSIN
Chemical and physical characterization of the activation of ribulosebiphosphate carboxylase/oxygenase
[DE83-017226] 04 p0571 N84-13764
Report of Prochloron research 10 p1544 N84-20121
Computer simulation of protein systems 10 p1559 N84-20214
Oxidative enzyme activity in rat blood plasma and subcellular fraction of liver following flight aboard Cosmos-936 biosatellite 15 p2377 N84-25265
Skeletal muscle metabolism of sea-level natives following short-term high-altitude residence
[AD-A139323] 15 p2380 N84-25284
An optimal control problem in the study of liver kinetics
[CTH-MATH-1984-10] 19 p3064 N84-29439
Use of sperm enzymes to detect genotoxic agents
[AD-A142724] 20 p3260 N84-30691

ENZYMOLOGY
Oxidative enzyme activity in rat blood plasma and subcellular fraction of liver following flight aboard Cosmos-936 biosatellite 15 p2377 N84-25265
ECUT: Energy Conversion and Utilization Technologies program - Biocatalysis research activity
[NASA-CR-173752] 18 p2868 N84-28207
Application of protein crystals for structure and function analysis 23 p3804 N84-34119

EOR (RENDEZVOUS)
U EARTH ORBITAL RENDEZVOUS

EOS
U LANDSAT SATELLITES

EPHEMERIDES
NT PLANET EPHEMERIDES
Satellite orbit theory for a small computer
[AD-A139406] 14 p2112 N84-23660
New ephemerides for the Galilean Satellites of Jupiter calculated from Sampson-Lieske theory 19 p3119 N84-29825
The S-9 ephemeride of Phoebe with an analysis pf the observation 19 p3119 N84-29826
Galilean satellites: Observations, ephemerides and theories 19 p3120 N84-29829

EPHEMERIS TIME
Imaging data 23 p3842 N84-34370

EPIDEMIOLOGY
USSR report. Life sciences: Biomedical and behavioral sciences
[JPRS-UBB-84-007] 14 p2250 N84-24515
Back pain in helicopter flight operations 16 p2537 N84-26288
USSR Report: Life sciences biomedical and behavioral sciences
[JPRS-UBB-84-013] 17 p2740 N84-27397

EPINEPHRINE
Influence of microwave electromagnetic radiation and certain hormones on osmotic resistance of mouse erythrocytes 20 p3259 N84-30682

EPITAXY
NT LIQUID PHASE EPITAXY
NT MOLECULAR BEAM EPITAXY
NT VAPOR PHASE EPITAXY
Study of deep-level defects and transport properties vs. growth parameters and annealing conditions in III-IV compound semiconductors
[AD-A130778] 01 p0153 N84-11008
Epitaxial polymerization as a molecular engineering technique
[AD-A131405] 02 p0200 N84-11302
Clustering and ordering in 3-5 alloys
[AD-A131785] 03 p0452 N84-12974
Structural properties of epitaxial single layer metals on (110) B.C.C. metal substrates 06 p0817 N84-15326
Organometallic epitaxy for GaAs/AlGaAs microwave transistors and integrated circuits
[AD-A133569] 06 p0923 N84-16001
Development of a planar heterojunction bipolar transistor for very high speed logic
[AD-A136341] 09 p1306 N84-18539
Effects of yttrium microalloying on the epitaxial grain growth in Ti-6Al-4V weld fusion zones
[AD-A137272] 10 p1459 N84-19526
Calculations of misfit dislocation and dangling bond densities in abrupt Hg sub (1-x) Cd sub x Te heterojunctions
[AD-A138241] 12 p1914 N84-22467
Low-cost GaAs solar cell development
[AD-A138938] 13 p2047 N84-23260
Development of short gate FET's
[AD-A140819] 17 p2663 N84-26992
Real-time X-ray diffraction: Applications to materials characterization 18 p2939 N84-28644
Superconducting electronic film structures
[AD-A141113] 19 p3110 N84-29760
Experimental studies of laterally seeded recrystallized polysilicon on silicon dioxide
[AD-A142382] 20 p3162 N84-30077
Infrared ellipsometer method for determination of parameters of thin epitaxial structures with buried layer: Specimens with dull inactive surface 21 p3379 N84-31446
Electrical characteristics of metal-dielectric-semiconductor systems produced on epitaxial silicon structures with various dielectrics 21 p3479 N84-32052
In-situ TEM investigations of graphic-epitaxy and small particles
[NASA-CR-166593] 21 p3503 N84-32201
Epitaxial crystallization in the Te-HgTe-CdTe system
[CSIR-TRANS-1745] 22 p3661 N84-33206
Electroding of multi-layered epitaxial structures
[AD-D011137] 22 p3661 N84-33209
Physical properties of CdTe films grown by hotwall and molecular beam techniques
[AD-A143180] 22 p3662 N84-33214
Electron localization and superconductivity of very thin epitaxially grown ag films on ge(001)
[AD-A143469] 22 p3663 N84-33224
Process for the epitaxial deposition of III-V compounds utilizing a binary alloy as the metallic source
[AD-D011097] 22 p3664 N84-33229
Protein Single Crystal Growth Under Low Gravity — conferences
[ESA-SP-1067] 23 p3804 N84-34118
Protein single crystal growth under microgravity 23 p3805 N84-34124
Diffusion profiles in microgravity protein crystallization experiments — Spacelab 23 p3805 N84-34125
Growth of CdTe/HgTe superlattice with the LADA (Laser Assisted Deposition and Annealing) techniques
[AD-A143948] 23 p3830 N84-34295
Epitaxial thinning process
[NASA-CASE-NPO-15786-1] 24 p3966 N84-35112

EPNL
U EFFECTIVE PERCEIVED NOISE LEVELS

EPOCHS
U TIME MEASUREMENT

EPOXIDATION
The selective epoxidation of ethylene catalyzed by silver: Mechanistic details revealed by single-crystal studies
[DE84-009987] 21 p3506 N84-32215

EPOXIDES
U EPOXY COMPOUNDS

EPOXY COMPOUNDS
NT ETHYLENE OXIDE
Polymers of phosphonylmethyl-2,4- and -2,6-diamino benzenes and the like
[NASA-CASE-ARC-11506-1] 03 p0356 N84-12313
Surface science study of selective ethylene epoxidation catalyzed by the Ag(110) surface: Structural sensitivity
[DE84-001324] 04 p0494 N84-13246
Testing of epoxy-phenolic coating for lining carbon steel pipe
[DE84-000073] 04 p0507 N84-13322
Finite-element analysis of an epoxy-curing process
[DE84-000452] 04 p0507 N84-13323
Resin development in advanced composites
[FOA-C-20509-F9] 06 p0799 N84-15208
Application of kinetic fracture mechanics to life prediction for polymeric materials
[DE84-003002] 07 p0979 N84-16347
Synthesis of energetic prepolymers
[AD-A135770] 09 p1288 N84-18409
Pretreatment of Kapton-coated cable for epoxy adhesion
[DE84-006265] 11 p1661 N84-20837
An investigation of chemically-induced improvement in saturation moisture characteristics of epoxies
[NASA-TM-85826] 18 p2809 N84-27834
Cure reactions, network structure and mechanical response of diaminodiphenyl sulfone cured tetraglycidyl 4,4'diaminodiphenyl methane
[DE84-012607] 22 p3561 N84-32548
Review of the strength of brittle rock materials 23 p3722 N84-33586
Some aspects of the deformation and brittle destruction of elastooptic materials 23 p3722 N84-33587

EPOXY MATRIX COMPOSITES
Characterization of cumulative damage in composites during service 01 p0033 N84-10210
An empirical appraisal of defects in composites — helicopter tail rotor blades 01 p0034 N84-10211
High-specific-energy composite-material flywheel
[DE83-012943] 01 p0090 N84-10586
Carbon piezoresistive stress gauge
[DE83-016505] 02 p0224 N84-11470
An X-ray radiography study of delamination growth in notched carbon/epoxy laminates
[FFA-TN-1983-29] 03 p0386 N84-12516
Processing science for AS/3501-6 carbon/epoxy composites
[AD-A132323] 04 p0506 N84-13316
Resin development in advanced composites
[FOA-C-20509-F9] 06 p0799 N84-15208
Formation and properties of polymers used in organic matrix composites
[AD-A134502] 07 p0979 N84-16344
A study of polymer matrix fatigue properties
[AD-A135076] 08 p1122 N84-17294
Flammability characteristics of some epoxy resins and composites
[AD-A135282] 08 p1137 N84-17394
The basic ply properties of a Kevlar 49/epoxy resin composite system
[AD-A136614] 09 p1286 N84-18397
Properties of carbon fibers with various coatings
[NASA-TM-77027] 10 p1464 N84-19563
On the optical assessment of the void content in composite materials
[RAE-TM-MAT/STR-1024] 12 p1789 N84-21664
Effect of space exposure of some epoxy matrix composites on their thermal expansion and mechanical properties (A0138-8) 15 p2272 N84-24640
Resonant scattering of waves in random particulate composites 15 p2310 N84-24861
The effect of matrix properties and fiber properties on impact failure mechanics 15 p2310 N84-24863

Application of optical methods, including optical interference, to measure the dimensional stability of resins, resin based adhesives and resin based composites
[AD-A140297] 16 p2472 N84-25843
Roll-trusion (RT*) of composite structures
[AD-A140838] 17 p2618 N84-26757
Residual curing stress of carbon-resin composites
[ONERA-RT-6/3521-M] 20 p3147 N84-29980
Physical aging and its influence on the reliability of network epoxies and epoxy-matrix composites
[NASA-CR-173870] 21 p3356 N84-31289
Investigation of damage and damage propagation in static and fatigue tests on carbon epoxy composites
[SNIAS-841-551-102] 21 p3358 N84-31298
Probabilistic models of the stress-rupture of composite materials: Summary
[DE84-013477] 22 p3545 N84-32441
Ground exposure of composite materials for helicopters
[NASA-TM-86311] 24 p3879 N84-34577

EPOXY RESINS
Advanced fatigue damage development in graphite epoxy laminates
[AD-A130190] 01 p0031 N84-10194
Irradiation effects on the mechanical properties of composite organic insulators
[DE83-014703] 01 p0032 N84-10202
The dicyandiamide cure of SP-250 epoxy resin accelerated by monuron
[AD-A129667] 01 p0050 N84-10320
Bond characteristics of epoxy coated reinforced bars
[PB83-205518] 01 p0058 N84-10379
Fracture mechanics of sub-laminate cracks
[AD-A130782] 01 p0096 N84-10623
Curing of epoxy resins with 1-Oi(2-chloroethoxyphosphinyl) methyl-2,4 and -2,6-diaminobenzene
[NASA-TM-84350] 02 p0186 N84-11212
Fluoroether modified epoxy composites
[NASA-CASE-ARC-11418-1] 02 p0187 N84-11213
The effect of moisture on the properties of an aramid/epoxy composite
[AD-A131132] 02 p0188 N84-11222
Particle-tear energy contribution to the toughness of rubber-modified epoxies
[DE83-010396] 02 p0188 N84-11223
Cobalt ion-containing epoxies
[NASA-TM-85715] 04 p0505 N84-13309
Aging of polymeric materials
[AD-A132250] 04 p0506 N84-13318
Glass fibre/epoxy resin interface life-time prediction
[AD-A132206] 04 p0507 N84-13320
Improved moisture resistance of fiber reinforced plastics
[AD-A132762] 05 p0659 N84-14333
Rubber-modified epoxy and glass laminates for application to naval ship structures
[AD-A133305] 06 p0798 N84-15204
Resin development in advanced composites
[FOA-C-20509-F9] 06 p0799 N84-15208
Flammability characteristics of some epoxy resins and composites
[AD-A135282] 08 p1137 N84-17394
Development of a stable epoxy resin system for composite repair
[AD-A135390] 08 p1137 N84-17395
Determination of the effect of strain rate on the mechanical properties of graphite-epoxy laminates
[AD-A136334] 09 p1276 N84-18328
The basic ply properties of a Kevlar 49/epoxy resin composite system
[AD-A136814] 09 p1286 N84-18397
Resin bonding of structural members
09 p1291 N84-18432
A dielectric study of the Time-Temperature-Transformation (TTT) diagram of DGEBA epoxy resins cured with DDS (Diaminodiphenylsulfone)
[AD-A137358] 10 p1466 N84-19573
Siloxane modifiers for epoxy resins
[AD-A136782] 10 p1467 N84-19582
Evaluation of the epoxy system for the repair of fuel tank M109
[AD-A136923] 10 p1467 N84-19583
Improving a chemical method to determine the epoxy equivalent in epoxy resins
[REPT-I-4/241/720/83.063] 10 p1469 N84-19583
Temperature effects of cement joints in ceramic-stack resonators
[AD-A137435] 10 p1486 N84-19716
Development of low temperature cure epoxy paint for offshore steel structures in cold areas
[NRC/CNR-TT-2078] 11 p1636 N84-20694
Process for improving moisture resistance of epoxy resins by addition of chromium ions
[NASA-CASE-LAR-13226-1] 11 p1636 N84-20700
The relationship of engineering properties to the molecular structure of polymeric materials: Damage accumulation processes
[AD-A138411] 12 p1801 N84-21745
The curing of a bisphenol A type epoxy resin with 1,8 Diamino-P-Menthane
[AD-A138977] 13 p1964 N84-22761
Fracture mechanics of sublaminate cracks in composite laminates
[AD-A139357] 14 p2120 N84-23706
Shelf life determination of an epoxy resin by accelerated aging
[DE84-006048] 14 p2121 N84-23709
Development of capsular adhesive systems and evaluation of their stability
[AD-A140083] 15 p2302 N84-24816
Journal of aeronautical materials (selected articles)
[AD-A140181] 16 p2434 N84-25611
Creep deformation measurement of polymer strips after buckling by Moire method
[NAL-TR-789] 16 p2501 N84-26055
Flurcepoxy and fluroacrylic transparencies
[AD-P003201] 17 p2592 N84-26614
Some properties of epoxy resins used for filament winding and preimpregnating fibres
[AERE-R-10966] 18 p2820 N84-27905
Fracture initiation in glass-reinforced plastics under impact compression
[OUEL-1516/84] 19 p3037 N84-29265
Development of GAP-TAGN-PEG propellants. Part 1: Study of ingredients 20 p3143 N84-29954
Physical aging and its influence on the reliability of network epoxies and epoxy-matrix composites
[NASA-CR-173870] 21 p3356 N84-31289
Nuclear Magnetic Resonance (NMR) study of glass fiber-epoxy resin composites in the solid state
21 p3358 N84-31299
Dielectric cure monitoring: Preliminary studies
[NASA-TM-86452] 21 p3369 N84-31378
Process for improving mechanical properties of epoxy resins by addition of cobalt ions
[NASA-CASE-LAR-13230-1] 24 p3878 N84-34571
Precision cutting of millimeter wave ferrite materials
[AD-D011179] 24 p3891 N84-34639

EQUALIZERS (CIRCUITS)
Analysis of receivers provided with equalizers for digital radio links in the presence of multipath fading
[FUB-56-1982] 10 p1483 N84-19691
Multipath outage performance of digital radio receivers using finite-tap adaptive equalizers
15 p2324 N84-24955

EQUATIONS
Simulation of systolic networks with a syntax directed solver for systems of sequence equations
[AD-A130232] 01 p0064 N84-10417
The discrete convolution method for solving some large moment matrix equations
[AD-A135420] 08 p1226 N84-18007
The role of traps in the microstructural control of hydrogen embrittlement of steels
[AD-A141249] 18 p2814 N84-27863
Electrostatic equations for large scale plasma simulation studies
[AD-A143640] 23 p3828 N84-34277

EQUATIONS OF MOTION
NT EULER EQUATIONS OF MOTION
NT HELMHOLTZ VORTICITY EQUATION
NT HYDRODYNAMIC EQUATIONS
NT KINEMATIC EQUATIONS
NT KINETIC EQUATIONS
NT NAVIER-STOKES EQUATION
NT REYNOLDS EQUATION
On the physical processes responsible for tropical cyclone motion 02 p0252 N84-11648
Dynamic analysis of the fluidyne
[DE83-017283] 03 p0384 N84-12500
Numerical solution of the three-dimensional unsteady Euler equations
[AD-A132034] 03 p0425 N84-12783
Dynamics of a mobile tank partially filled with liquid: Equations of motion and their linearization
[WU-PAPER-174] 05 p0678 N84-14460
Liquid payload roll moment induced by a spinning and coning projectile
[AD-A133681] 05 p0680 N84-14472
Some remarks on the creeping flow of the second grade fluid
[AD-A132806] 05 p0681 N84-14473
The smoothest velocity field and token matching schemes
[AD-A133633] 05 p0732 N84-14809
Nonlinear inverse perturbation method in dynamic redesign 06 p0779 N84-15107
Middle latitude forcing of a model tropical atmosphere with horizontally nonuniform basic states
06 p0880 N84-15724
Numerical simulation and practical testing of a rotation-symmetric ion source for gas mass spectrometers
[DE84-002925] 07 p0970 N84-16288
Propagation of crazing in viscoelastic media
[NASA-CR-173244] 07 p1015 N84-16583
A general field theory for vortex structure and interaction
[AD-A134146] 07 p1033 N84-16705
Properties of solutions of ordinary and partial differential equations describing the motion of mechanical systems
[ISSN-0208-5658] 07 p1058 N84-16852
Diffusion on viscous fluids, existence and asymptotic properties of solutions
[AD-A134538] 07 p1063 N84-16891
Bifurcation analysis of aircraft pitching motions near the stability boundary
[NASA-TM-85881] 08 p1097 N84-17137
Validation methods for mathematical models of flexible satellite dynamics
[ESA-CR(P)-1794] 08 p1113 N84-17241
The question of optimization of three-dimensional maneuver of orbital apparatus in the atmosphere
[AD-A134753] 08 p1119 N84-17280
Nonlinear orbits in free-electron lasers with a linear magnetic wiggler and a strong axial magnetic guide field
[AD-A135984] 09 p1323 N84-18642
Dynamic analysis of structures using Lanczos coordinates
[AD-A136387] 09 p1331 N84-18690
Analytical and experimental investigation of rotating blade response due to nozzle passing frequency excitation 10 p1515 N84-19917
A variational method for calculating the natural frequencies and mode shapes of a cantilevered open cylindrical shell
[AD-A136901] 10 p1517 N84-19932
Equations of motion for rigid multibody systems
[AD-A137234] 10 p1589 N84-20281
Flexible aircraft flying and ride qualities
11 p1615 N84-20572
Applications of model structure determination to flight test data 11 p1616 N84-20576
Transverse mode dynamics in a free electron laser
[AD-A137738] 11 p1662 N84-20846
The Role of Eddies in the General Ocean Circulation: Proceedings of Aha Huliko's Hawaiian Winter Workshop
[AD-A137212] 11 p1689 N84-21014
Hamilton's principle as the basis for ocean circulation models
[AD-P002658] 11 p1690 N84-21023
Dynamical threshold behavior of a sliding charge density wave
[DE84-004304] 11 p1745 N84-21389
Development of a complete model of turbulence revisited
[AD-A138145] 12 p1816 N84-21836
Second order particle motion equations and linear chromaticity calculation in accelerator rings
[DE84-005895] 12 p1903 N84-22391
Dynamics analysis of electrodynamic satellite tethers. Equations of motion and numerical solution algorithms for the tether
[NASA-CR-171777] 13 p1937 N84-22598
Active control of distributed structures
13 p1940 N84-22618
Approach to solving problem of acoustic wave diffraction by elastic shell 13 p1973 N84-22804
Balancing of flexible rotors with simultaneous precise determination of influencing factors
13 p1974 N84-22808
Microcomputer numerical analysis system for gas dynamics application
[NASA-CR-171005] 13 p1988 N84-22908
Biaxial orientation and mechanical properties of amorphous polymers 13 p1998 N84-22965
Attitude and shape control of large space structures
13 p2019 N84-23091
Formation of a shock wave in a dusty gas by a moving piston
[UTIAS-275] 14 p2145 N84-23853
Regular and stochastic motions of charged particles in electrostatic waves
[IPF-83-7] 14 p2223 N84-24341
Wind tunnel modelling of buoyant plumes
[QUEL-1513/84] 15 p2256 N84-24552
Hypersonic static and dynamic stability. Part 1: Equations of motion and flight dynamics
16 p2441 N84-25663
Coherent structure modeling of viscous sublayer turbulence for incompressible flow with heat transfer and for compressible flow
[AD-A140478] 16 p2493 N84-25994
A simplified upper atmosphere model to explain seasonal phenomena
[INPE-3071-PRE/488] 16 p2521 N84-26181

Equations in Rodrigues-Hamilton parameters for heavy solid body rotating about fixed point
17 p2643 N84-26908
Mechanics of rigid gyroscopic systems
17 p2643 N84-26910
Method of deriving equations of motion for dynamically adjustable gyroscope 17 p2643 N84-26912
Effect of injection into boundary layer on flow of supersonic stream past oscillating cone
17 p2646 N84-26925
The simulation of deformable mechanical systems using vector processors 17 p2675 N84-27045
Linearized model for wind turbines in yaw
17 p2722 N84-27325
Numeric extension of periodic solutions to Lagrangian system with two degrees of freedom
19 p2972 N84-28843
On the scattering of electromagnetic waves by perfectly conducting bodies moving in vacuum. Part 5: A description of motion and deformation retardation of sets and functions
[AD-A141549] 19 p3005 N84-29048
Global existence of classical solutions to the equations of motion for materials with fading memory
[AD-A141607] 19 p3085 N84-29584
Multi-shaker random mode testing
[AD-A142094] 19 p3089 N84-29608
A method for the estimation of small perturbations
19 p3118 N84-29817
Satellite orbit theories based on the elimination of the parallax 19 p3118 N84-29819
Analytical theory of the motion of the Galilean satellites of Jupiter: The first approximation
19 p3120 N84-29834
A note about Lie series and some applications
19 p3121 N84-29836
A simple theory of Trojan asteroids
19 p3121 N84-29837
Flow in a tapered centrifuge
[DE84-012553] 21 p3401 N84-31573
Differential equations for movement of triaxial gyroscopic stabilizer on moving base 21 p3488 N84-32107
Linearized dynamical model for the NASA/IEEE SCOLE configuration
[NASA-CR-172394] 22 p3542 N84-32423
Adone parameters, beam structure and luminosity — particle acceleration
[DE84-012866] 22 p3653 N84-33154
Experimental determination of the inertia constants of an airplane or of a missile
[NASA-TM-77767] 23 p3689 N84-33381
Research on self-generated stochastic motion
[AD-A144093] 23 p3820 N84-34225
Periodic control of the individual-blade-control helicopter rotor
[NASA-CR-166607] 24 p3911 N84-34771

EQUATIONS OF STATE
NT HUGONIOT EQUATION OF STATE
Nonexistence of a shock layer in gas dynamics with a nonconvex equation of state
[AD-A129169] 01 p0078 N84-10506
Gas-transfer analysis. Section B: Real gas results via the vanderWaals equation of state and virial extension of its limiting Abel-Noble form
[DE83-013281] 01 p0081 N84-10527
An example of boundary layer in delay equations
[AD-A129144] 01 p0129 N84-10842
Theory of the iron equation of state and melting curve to very high pressures
[DE83-015899] 02 p0196 N84-11274
Refractive index and equation of state of a shock-compressed aqueous solution of zinc chloride
[DE83-016302] 02 p0220 N84-11443
Piston-displacement equations of state for sodium, potassium, and rubidium metals to 20 kbar from 300 K to 4 K
[DE83-018079] 03 p0347 N84-12252
Lithium equation-of-state
[DE83-017988] 03 p0347 N84-12253
Equations of state for the alkali metals, with generalizations to NaCl
[DE83-018075] 03 p0351 N84-12280
Zero-dimensional model of compressible gas flow in networks of pressure vessels: Program TRIC
[DE83-017121] 03 p0373 N84-12431
Aluminum as a global high-pressure equation-of-state standard
[DE84-000153] 04 p0501 N84-13287
Equations governing the liquid-film flow over a plane with heat flux and interfacial phase change
[DE83-017528] 04 p0536 N84-13525
Inertial effects in laser-drive ablation
[DE84-000071] 04 p0542 N84-13566
The MIXPAC: A subroutine package for calculating equations of state for equilibrium mixtures of materials
[DE84-002302] 05 p0730 N84-14796
Numerical analysis of boundary value problem of elliptic type by means penalty and the finite difference and its application to free boundary problem
[AD-A132805] 05 p0736 N84-14834
Equation of state for the detonation products of several simple explosives
[DE83-017266] 06 p0813 N84-15290
LARC: Computer codes for Lagrangian analysis of stress-guage data to obtain decomposition rates through correlation to thermodynamic variables
[DE84-002404] 06 p0813 N84-15292
Equation of state of fluid NH-3 from P-V-T and ultrasound measurements to 12 kbar
[DE83-015913] 08 p1125 N84-17316
Hydrogen sulfide provisional thermophysical properties from 186 to 700 K at pressures to 75 MPa
[PB84-122704] 08 p1127 N84-17329
Frictional hot-spots and statistical crack mechanics
[DE84-003784] 09 p1290 N84-18423
Equations of state of PBX-9404, LX-07, and RX-26-AF detonation products at pressures above detonation pressure
[DE84-002465] 09 p1290 N84-18424
On mean Kullback-Leibler's information maximum likelihood principle and uncertain nonlinear systems
[AD-A137222] 10 p1569 N84-20279
Kinetic mechanisms for premixed, laminar, steady state methane/air flames
[AD-A137263] 11 p1629 N84-20658
Obtaining the zero-temperature equation of state from shock data
[DE84-006696] 11 p1728 N84-21272
Type II successful supernovae, the anatomy of shocks: Neutrino emission and the adiabatic index
[DE84-002858] 11 p1757 N84-21472
Equation of state for titanium dihydride
[DE84-006698] 12 p1794 N84-21698
Use of shape-preserving interpolation methods in surface modeling
[DE83-012708] 12 p1895 N84-22343
Molecular dynamics of propellant gases
13 p1949 N84-22674
H Division materials physics
[DE84-007789] 15 p2304 N84-24826
Problems of constitutive modeling and stability of dissipative bodies
[ISSN-0208-5658] 19 p3081 N84-29551
Usual initial and final state effects in quantum chromodynamics
[DE84-010422] 21 p3495 N84-32148
The 2-on-1 stochastic duel
[AD-A143679] 23 p3820 N84-34224

EQUATORIAL ATMOSPHERE
The FGGE level 3-B daily global analyses, part 1
[PB83-221051] 01 p0109 N84-10709
FGGE level 3-B daily global analyses. Part 2: (Mar. 1979 - May 1979)
[PB84-100270] 08 p1193 N84-17780
FGGE level 3-B daily global analyses, part 3
[PB84-135854] 10 p1541 N84-20101
Investigation of the equatorial orographic-dynamic mechanism applying the bounded derivative method
12 p1854 N84-22078
Equatorial MST radars: Further consideration
17 p2683 N84-27063
Measurement of nitric oxide in the equatorial D-region and other relevant parameters
[IWF-8304] 17 p2728 N84-27365

EQUATORIAL ELECTROJET
Longitudinal extent of the characteristics of the equatorial electrojet
[INPE-3027-PRE/465] 12 p1847 N84-22038
A rocket-borne Langmuir probe for in-situ measurement of ionospheric plasma
[INPE-3206-PRE/584] 21 p3349 N84-31244
The near-Earth magnetic field at 1980 determined from MAGSAT data
[E84-10170] 21 p3426 N84-31733

EQUATORIAL ORBITS
NT STATIONARY ORBITS
Quasicircular equatorial orbits of artificial earth satellites with allowance for light pressure
19 p2974 N84-28851

EQUATORIAL REGIONS
High-latitude and equatorial research support for predicting high-altitude nuclear effects
[AD-A131431] 02 p0249 N84-11630
Overview of project Brazil Ionospheric Modification Experiment (BIME) 05 p0639 N84-14207
Real-time in-situ targeting of geoplasma domains for purposes of chemical injection and artificial triggering of equatorial spread-F 05 p0639 N84-14208
Colored bubbles: An experiment for triggering equatorial spread F 05 p0640 N84-14212
FGGE level 3-B daily global analyses. Part 2: (Mar. 1979 - May 1979)
[PB84-100270] 08 p1193 N84-17780
Phenomenology of structured plasma in the ionosphere
[AD-A136396] 09 p1345 N84-18784
Equatorial scintillation of satellite signals and some drift characteristics of the scintillation
[AD-A137555] 11 p1642 N84-20738
Vertical structure and convective dynamics of the equatorial region on Jupiter 11 p1758 N84-21473
Longitudinal extent of the characteristics of the equatorial electrojet
[INPE-3027-PRE/465] 12 p1847 N84-22038
Rayleigh-Taylor instability in the presence of a stratified shear layer
[AD-A138544] 13 p2011 N84-23043

EQUATORS
NT MAGNETIC EQUATOR
Ground-based observations of equatorial thermosphere dynamics with a Fabry-Perot interferometer
[NASA-CR-174005] 24 p3933 N84-34897

EQUILIBRIUM
Three-dimensional equilibrium in quadrupole symmetric tandem mirrors in the paraxial limit (reduced MHD)
[DE83-017840] 03 p0447 N84-12940
Studies of ions in a drift field: Laser diagnostics of excited states and measurements of thermochemical properties at equilibrium
[DE84-000363] 04 p0541 N84-13562
Statistical properties of deep inelastic reactions
[DE84-000722] 04 p0598 N84-13943
Nature of 640-KM seismic boundary
17 p2703 N84-27216
The exit problem for a stochastic dynamical system in a domain with almost everywhere characteristic boundaries
[CWI-AM-R8403] 19 p3092 N84-29635

EQUILIBRIUM DIAGRAMS
U PHASE DIAGRAMS

EQUILIBRIUM EQUATIONS
Computational experience in solving equilibrium models by a sequency of linear complementarity problems
[DE83-011189] 01 p0124 N84-10811
A survey of solution techniques for nonlinear finite element equations
[NLR-MP-82027-U] 06 p0903 N84-15861
Equilibrium studies for low-aspect-ratio torsatrons
[DE84-002264] 06 p0920 N84-15979
A finite difference scheme for the equilibrium equations of elastic bodies
[NASA-CR-172293] 08 p1170 N84-17821
Orbit connections in a parabolic equation
[AD-A135986] 09 p1378 N84-18999
Relaxation, regularity and operator theoretical methods for a class of problems in nonlinear elastostatics
11 p1666 N84-20871
Flux diffusion and acceleration in a high current modified betatron
[AD-A141277] 18 p2931 N84-28584
Error estimations and adaptive techniques for nonlinearized parametrized equations
[AD-A142041] 19 p3088 N84-29607
Stability of equilibrium in problems with double resonance 19 p3117 N84-29809
Stability of laminar electron layers
[AD-A143788] 23 p3822 N84-34235

EQUILIBRIUM FLOW
Diagnosis of the GLAS climate model's stationary planetary waves using a linearized steady state model
12 p1856 N84-22095
Approach to equilibrium of a relativistic gas
17 p2669 N84-27018
Development and evaluation of a performance modeling flight test approach based on quasi steady-state maneuvers
[NASA-CR-170414] 18 p2793 N84-27724
Efficient finite-difference calculation procedure for multi-dimensional fluid flows
[DE84-011710] 21 p3401 N84-31577

EQUILIBRIUM METHODS
A survey of solution techniques for nonlinear finite element equations
[NLR-MP-82027-U] 06 p0903 N84-15861
Steepest descent moment method for three-dimensional magnetohydrodynamic equilibria
[DE84-002993] 07 p1076 N84-16999

EQUINOXES
Effects of adopting new precession, nutation and equinox corrections on the terrestrial reference frame
07 p1029 N84-16670

EQUIPMENT
Symposium on Heat Pumps per DIN 8900
[BLL-TRANS-T5843/BG-MRS1796-82]
01 p0076 N84-10500

Reliability and maintainability data acquisition in equipment development tests
[DE84-002994] 07 p1084 N84-17051
Evaluation of selected commercial construction equipment for bomb damage repair
[AD-A140907] 17 p2611 N84-26714
Far north as source of nonferrous metals
24 p3874 N84-34551

EQUIPMENT SPECIFICATIONS
The creation of the NLR benchmark package and the performance of two new CDC computers with it
[NLR-MP-82015-U] 06 p0896 N84-15819
Astronomical observatories
[NASA-TM-77295] 07 p1089 N84-17082
Concept study of an automatic ellipsoidal mirror furnace facility, prephase A. Volume 1: Executive summary
[ERC-RP-200-DS-009-VOL-1] 08 p1141 N84-17423
Concept study of an automatic ellipsoidal mirror furnace facility, prephase A. Volume 2: Technical descriptions
[ERC-RP-200-DS-009-VOL-2] 08 p1141 N84-17424
Handbook for broadband isotropic antenna system. Volume 1: Operation manual
[PB84-101948] 08 p1153 N84-17510
Spas color camera
[NASA-CR-171739] 08 p1161 N84-17559
L-Division streak camera
[DE84-007780] 14 p2149 N84-23872
Enviropod handbook: A guide to preparation and use of the Environmental Protection Agency's light-weight aerial camera system — Weber River, Utah
[E84-10123] 14 p2168 N84-23982
Cryogenic 75-95 GHz front-end for the Metsaehovi radio telescope
[REPT-S-145] 15 p2424 N84-25564
Basic requirements for product assurance of ESA spacecraft and associated equipment
[ESA-PSS-01-0-ISSUE-1] 16 p2499 N84-26034
Upgraded aircraft accident recorder standards
17 p2586 N84-26574
Deficiencies of current flight data recorders in accidents investigation 17 p2586 N84-26575
Specifications for a low capacity SCPC FM Earth station
[INPE-2944-NTE/208] 17 p2652 N84-26959
Eyebolts for lift suspension
[NPL-DMA(A)-70] 20 p3195 N84-30292
Improvement of the equipment of very long horizontal tensile test bench
[CETIM-5.510.05] 21 p3424 N84-31724
The TM/TC processor study report — telemetry/telecommand (TM/TC)
[BL-5577] 23 p3700 N84-33449
Instrumentation studies for FUSE-Columbus
24 p3962 N84-35229

EQUIVALENCE
Implication and equivalence among statistical inference rules
[CTH-MATH-1983-21] 07 p1068 N84-16937
Equivalence techniques for vibration testing
10 p1506 N84-19850
On the equivalence of logical databases
[AD-A141541] 19 p3085 N84-29579
Equivalence between maximization problems subjected to inequality constraints
[INPE-3166-PRE/536] 23 p3818 N84-34206

EQUIVALENT CIRCUITS
Experimental and theoretical aspects of the generation of MHD waves by chemical releases in the ionosphere
05 p0639 N84-14206
Study of a gravitational antenna coupled to a resonant capacitive transducer: Equivalent circuit and noise spectra
[IFSI-82-3] 05 p0677 N84-14450
Experimental investigation of switched-capacitor circuits and systems
[AD-A138034] 12 p1811 N84-21806
An AC impedance study of steel in concrete
[AERE-R-11132] 18 p2835 N84-27997

ERBE
U EARTH RADIATION BUDGET EXPERIMENT

ERBIUM
Temperature dependence of the electric-field gradient in Er metal
[DE83-015564] 03 p0454 N84-12989
Influence of rare-earth additions on properties of titanium alloys. Effects of yttrium and erbium additives on rapid solidification processing, superplastic forming, welding, and strengthening of titanium alloys
[AD-A133666] 05 p0654 N84-14299

ERBIUM ALLOYS
Low-hysteresis materials for magnetic refrigeration: Gd sub 1-x/Er sub x/Al2
[DE84-001685] 04 p0505 N84-13307

ERBIUM COMPOUNDS
Comparison of thermal, line-source electron beam and CW laser annealing for the fabrication of ErSi/sub 2 Schottky barrier on Si
[DE84-003105] 07 p1081 N84-17031

ERECTION
U CONSTRUCTION

ERGODIC PROCESS
Kingman's subadditive ergodic theorem
[AD-A131795] 03 p0427 N84-12801
On a class of orbit closures with unique minimal sets
07 p1060 N84-16869
The queue G/G/1: Finite moments of the cycle variables and uniform rates of convergence
[CTH-MATH-1983-18] 07 p1068 N84-16933
Harmonizable stable processes on groups: Spectral, ergodic and interpolation properties
[AD-A136504] 09 p1384 N84-19041
Boundary problems and large deviation results for queue length processes
[CTH-MATH-1984-05] 19 p3090 N84-29623
On regenerative and ergodic properties of the k-server queue with nonstationary Poisson arrivals
[CTH-MATH-1984-2] 19 p3094 N84-29648
Periodicity and absolute regularity
[MC-SW-97/83] 19 p3094 N84-29651

ERGOMETERS
Development and assessment of the Monark cycle ergometer for anaerobic muscular exercise
[AD-A133173] 06 p0847 N84-15523
The effect of aerobic capacity on VO2 max values measured during leg ergometry and combined arm and leg ergometry 10 p1548 N84-20149
Influence of heat stress and acclimation on maximal aerobic power
[AD-A142329] 19 p3066 N84-29453

ERGONOMICS
U HUMAN FACTORS ENGINEERING

ERGOTAMINE
Effect of dihydroergotamine on human circulation during orthostatic tests 20 p3253 N84-30646

EROSION
NT RAIN EROSION
NT SOIL EROSION
NT WATER EROSION
NT WIND EROSION
Diode dynamics, beam generation and transport and plasma erosion opening switch development
[AD-A129821] 01 p0070 N84-10457
Modeled heating and surface erosion comparing motile (gas borne) and stationary (surface coating inert particle additives
[DE83-000597] 01 p0080 N84-10521
Prediction of erosive wear by solid particles in a turbulent curved-channel flow
[DE83-012896] 01 p0081 N84-10524
Mechanisms of wear in single and two-phase materials
[DE83-014651] 01 p0091 N84-10592
Particle impact erosion. Volume 3. User's manual chamber flowfield code (CFC) and Charring Material Ablation-Erosion (CMAE) code
[AD-A131007] 02 p0186 N84-11208
Particle impact erosion. Volume 4. User's manual erosion prediction procedure for rocket nozzle expansion region
[AD-A131008] 02 p0186 N84-11209
Solid impingement erosion mechanisms and characterization of erosion resistance of ductile metals
[NASA-TM-83492] 03 p0352 N84-12287
Theoretical modeling of the plasma-erosion opening switch for inductive-storage applications
[DE84-001843] 04 p0529 N84-13483
Particulate erosion mechanisms
[NASA-TM-83551] 05 p0652 N84-14289
Abrasion-erosion resistance of concrete made with two aggregates, Stonewall Jackson Dam, West Virginia
[AD-A133432] 06 p0822 N84-15357
The SRB nozzle erosion related flow analysis
[NASA-CR-170961] 07 p0965 N84-16251
Wheel efficiency in the diamond-spark erosion grinding of tungsten carbides
[CSIR-TRANS-1693] 08 p1140 N84-17418
Development of a high pressure water jet for the rapid removal of concrete
[PB84-109909] 08 p1142 N84-17426
Proceedings of the 18th International Conference on Coastal Engineering
[ISBN-0-7988-2553-7] 08 p1194 N84-17783
Liquid impact erosion mechanisms in transparent materials
[AD-A135891] 09 p1287 N84-18405
Development of contact materials based on Ag made by powder metallurgy
[BMFT-FB-T-83-248] 10 p1463 N84-19557
Metamorphic fluids and uplift-erosion history of a portion of the Kapuskasing structural zone, Ontario, as deduced from fluid inclusions 11 p1680 N84-20962
Erosion of corrosion resistant coatings for jet engine compressors
[NLR-MP-83010-U] 12 p1771 N84-21550
Cathode degradation and erosion in high pressure arc discharges
[NASA-TM-83638] 13 p1942 N84-22631
New models for landform evolution on Io
13 p2074 N84-23443
Wind abrasion on Venus: A means for experimental investigations 13 p2076 N84-23455
Planetary geomorphology field studies: Iceland and Antarctica 13 p2086 N84-23514
Temporal and spatial distribution of exhumed topography 13 p2087 N84-23517
Valles Marineris layered deposits: Implications of origin 13 p2090 N84-23537
Industrialization of emitters modules, part 2
[SEP-TS/SE/BT/10457/83-PT-2]
16 p2475 N84-25866
Geology of the Olympus Mons region of Mars
16 p2580 N84-26547
In-situ measurements of alloy oxidation/corrosion/erosion using a video camera and proximity sensor with microcomputer control
[NASA-TM-83673] 18 p2813 N84-27859
Development of improved LACV-30 propeller blade coatings for protection against sand and rain erosion and marine environment corrosion
[AD-A132999] 18 p2821 N84-27914
Erosion of iron-chromium alloys by glass particles
[NASA-TP-2354] 19 p2993 N84-28965
Interactions between erosion and corrosion of metals and alloys at elevated temperatures
[AD-A141410] 19 p2993 N84-28968
The use of isotopically-enriched carbon probes for erosion deposition measurements in the ASDEX divertor
[DE84-012329] 20 p3307 N84-31006
Empirical relations for cavitation and liquid impingement erosion processes
[NASA-TP-2339] 21 p3365 N84-31349
Fundamental mechanisms of multi-phase flow erosion/corrosion of solid surfaces
[AD-A143041] 21 p3366 N84-31355
Chemical vapor deposition of erosion resistant TiB-2 coatings
[DE84-012351] 22 p3556 N84-32518
Characterization of erosion of metallic materials under cavitation attack in a mineral oil
[NASA-TP-2368] 22 p3603 N84-32825
Historical and projected shoreline changes: Ocean City and north Assateague Island, Maryland
[PB84-190206] 22 p3628 N84-32987
The energy dependence and surface morphology of Kapton (trademark) degradation under atomic oxygen bombardment 24 p3863 N84-34484
Erosion mechanisms of metals
[AD-A144194] 24 p3884 N84-34605

ERROR ANALYSIS
Aerodynamic coefficient identification package dynamic data accuracy determinations: Lessons learned
01 p0022 N84-10138
Task validation for studies on fragmented sleep and cognitive efficiency under stress
[AD-A130260] 01 p0116 N84-10753
Hard CPU related failures and system activity: Measurement and modelling
[AD-A130821] 01 p0119 N84-10772
Optimization of finite element grids using interpolation error 01 p0128 N84-10835
Solution manifolds and submanifolds of parametrized equations and their discretization errors
[AD-A130186] 01 p0131 N84-10857
Survey of error propagation in systems
[DE83-009817] 01 p0134 N84-10878
A contribution to the calculation of measurement uncertainty and optimization of measuring strategies in coordinate measurement — production measurement technique
[PTB-ME-39] 02 p0206 N84-11345
Aircraft navigation technology and errors
[GPO-26-859] 04 p0482 N84-13170
Work done to determine the source of errors on conditioned pressure transduce signals in the JT9D-7F turbofan engines used on SAA Boeing 747 aircraft
[NIAST-82/78] 04 p0486 N84-13192
Project Porcupine: The MF mutual impedance probe experiment. Part 1: Flight F2 (March 1977)
[CRPE-NT-93-VOL-1] 05 p0705 N84-14624
Project Porcupine: The MF mutual impedance probe experiment. Part 2: Flights F3 and F4 (March 1979)
[CRPE-NT-94-VOL-2] 05 p0705 N84-14625

Investigation of an error theory for conjoint measurement methodology
[AD-A133946] 05 p0734 N84-14818
New flight deck design in the light of the operational capabilities 06 p0778 N84-15097
Effects of wall interference on unsteady transonic flows 06 p0779 N84-15105
Measures against errors in the building process
[NRC/CNR-TT-2067] 06 p0814 N84-15295
Moment estimators of defect pattern frequencies, allowing for inspection error
[AD-A133487] 06 p0855 N84-15568
On the utilization of ionospheric diagnostics in the single-site location of HF emitters 06 p0870 N84-15661
Aircraft avionic system maintenance cannot duplicate and Retest-OK analytical source analysis
[AD-A134449] 07 p0945 N84-16129
Measurement errors in TDC's using digital techniques
[DE84-002133] 07 p1008 N84-16537
LANDSAT-4 horizon scanner full orbit data averages
[E84-10080] 07 p1022 N84-16627
Permanent CPU errors and system activity: Measurement and modelling
[AD-A134467] 07 p1052 N84-16814
Reasons for numerical errors in digital computers
[DFVLR-MITT-83-13] 07 p1056 N84-16839
Segmented testing
[NASA-CR-173188] 07 p1058 N84-16855
Principal facts for gravity stations in the Nevada portion of the Kingman 1 degree by 2 degree quadrangle
[PB84-103084] 08 p1189 N84-17749
TERR, PERR, and GIGC: Three programs to compute verification statistics
[PB84-127521] 08 p1193 N84-17775
A theoretical approach to measuring pilot workload
[NASA-CR-173297] 08 p1205 N84-17859
Program mutation: An approach to software testing
[AD-A135775] 09 p1368 N84-18933
Program ERROR
[PB84-128081] 09 p1370 N84-18946
GP-B error modeling and analysis
[NASA-CR-170985] 09 p1372 N84-18960
Analysis of an error masking scheme for parallel computations
[AD-A136372] 09 p1374 N84-18971
Fourier-Motzkin elimination as a technique for error localization
[DE84-003309] 09 p1379 N84-19009
Rounding errors in some recursive methods used in computational probability
[PB84-124734] 09 p1379 N84-19013
Error measurement of a deterministic approximation for stochastic production planning problem
[INPE-2768-PRE/341] 09 p1381 N84-19017
Inspection errors in link sampling
[AD-A135636] 09 p1382 N84-19029
Correlated errors in a functional relationship: Estimation of the color term in the Period Luminosity-Color (PLC) for Long Magellanic Clouds (LMC) Cepheids 09 p1411 N84-19228
Doppler system phase transfer functions for a system with an X-band uplink and X-band and S-band downlinks 10 p1474 N84-19627
Radome analysis
[AD-A136805] 10 p1481 N84-19677
The special effort processing of FGGE data
[NASA-CR-175214] 10 p1524 N84-19986
An error analysis of range-azimuth positioning
[AD-A136775] 10 p1525 N84-19990
Sampling problems of satellite measurements of radiation budget parameters 10 p1534 N84-20045
Error analysis of satellite derived radiation flux densities 10 p1534 N84-20047
Inspections with unknown detection probabilities
[AD-A136890] 10 p1573 N84-20310
Measurement capabilities of the Bendix Metrology Organization
[DE84-005876] 11 p1661 N84-20834
Potential transport errors in single-layer wind fields
[DE84-003446] 11 p1675 N84-20932
Beta systems error analysis
[NASA-CR-170998] 11 p1705 N84-21117
Error analysis of vapor pressure measurements
[AD-A137584] 11 p1728 N84-21271
Three-way partitioning of sea surface temperature measurement error 12 p1836 N84-21969
Reliability model demonstration study, volume 1
[AD-A138196] 12 p1881 N84-22262
Reliability model demonstration study, volume 2
[AD-A138197] 12 p1881 N84-22263
Application of a fractional-step method to incompressible Navier-Stokes equation
[NASA-TM-85898] 12 p1893 N84-22328
Rank-based inference for linear models: Asymmetric errors
[AD-A138404] 12 p1894 N84-22340
On the measurement of structure-borne sound energy flow along pipes. Part 3: Analysis of systematic and random errors
[TPD-308.785/1] 12 p1900 N84-22377
Feasibility anlysis of novel technological principles of producing multicomponent mechanisms 13 p1968 N84-22773
Applications of coding to spread spectrum communications 13 p1976 N84-22829
Spread spectrum data networks 13 p1977 N84-22832
Structural coverage of functional testing 13 p2027 N84-23141
An error-specific approach to testing 13 p2027 N84-23143
Transformations of software design and code may lead to reduced errors 13 p2027 N84-23145
Fast evaluation of the numerical error rate in the presence of intersymbolic interference
[CRPE-NT-127] 13 p2029 N84-23158
A posteriori error analysis in L sub p norms for the finite element method
[CTH-MATH-1983-15] 13 p2035 N84-23198
A SEASAT SASS simulation experiment to quantify the errors related to a + or - 3 hour intermittent assimilation technique
[E84-10129] 14 p2168 N84-23987
Predictability of the Earth's polar motion
[NASA-TM-86095] 14 p2169 N84-23991
Relations among system diagnosis models with 3-valued test outcomes
[AD-P002374] 14 p2195 N84-24165
A method of test generation for verification of wiring correctness
[AD-P002376] 14 p2195 N84-24167
A guidebook for software reliability assessment
[AD-A139240] 14 p2205 N84-24233
Two methods for calculating the physical optics field
[AD-A139116] 14 p2224 N84-24347
Fault tolerant spaceborne computer 15 p2266 N84-24607
Overcoming unobservability in 3-axis stabilization of satellites 15 p2267 N84-24610
The question of accuracy in the transition from analogue to analytic photogrammetry 15 p2359 N84-25153
Multi-models to increase accuracy 15 p2359 N84-25154
Comments on bounded error adaptive control
[NASA-CR-173542] 15 p2399 N84-25393
Updating LU factorizations for computing stationary distributions
[DE84-007566] 15 p2400 N84-25402
Robust statistical methods 16 p2504 N84-26071
Stochastic models for point manifolds 16 p2504 N84-26072
Estimation of variances and covariances in the multivariate and in the incomplete multivariate model 16 p2504 N84-26073
Detection of errors in the functional adjustment model 16 p2505 N84-26074
Several aspects of the sequential processing of photogrammetric bundle blocks 16 p2505 N84-26077
On the undetected error probability of a concatenated coding scheme for error control
[NASA-CR-173613] 16 p2541 N84-26313
Ada advanced error detector
[AD-A140273] 16 p2544 N84-26334
Survey of sensitivity analysis methodology
[PB84-166701] 16 p2552 N84-26375
A computer algorithm for correcting spelling and typographical errors in subject headings 16 p2566 N84-26463
Space structure vibration modes: How many exist? Which ones are important?
[NASA-CR-173442] 17 p2615 N84-26738
Evaluation of precision of triangulation method of determining coordinates 17 p2637 N84-26869
Performance of telecommunications systems in a random probabilistic environment. Task 1: Comparisons of spread-spectrum and conventional narrowband modulation methods
[PB84-158542] 17 p2655 N84-26979
Altimeter height measurement errors introduced by the presence of variable cloud and rain attenuation 17 p2716 N84-27289
Study on the influence of X-ray focus on the image quality in radiological systems 17 p2764 N84-27555
Regression analysis technique for air data sensor calibration with an inertial navigation system
[DFVLR-MITT-84-03] 18 p2791 N84-27716
Microdensitometer errors: Their effect on photometric data reduction 18 p2839 N84-28024
Positive-feedback photometric drift in the PDS 18 p2840 N84-28025
Multipath induced errors in meteorological Doppler/interferometer location systems
[NASA-CR-175243] 18 p2844 N84-28058
Aerosol backscatter lidar calibration and data interpretation
[NASA-CR-173738] 18 p2845 N84-28067
Satellite-Derived Sea Surface Temperature: Workshop-2
[NASA-CR-173740] 18 p2892 N84-28355
Edge waves by boundary collocation
[AD-A137959] 18 p2924 N84-28545
Error analysis for winters' additive seasonal forecasting system
[AD-A141355] 19 p3058 N84-29399
Moments of inclination error distribution computer program
[NASA-CR-165824] 19 p3073 N84-29501
Error in CALSPAN 3-dimensional crash vehicle simulation computer program for the case of massless segments
[AD-A141783] 19 p3078 N84-29528
Present-day problems in identification of dynamic systems: A review
[ISSN-0208-5658] 19 p3082 N84-29555
Error estimates for non-linear finite element computations
[AD-A141404] 19 p3084 N84-29571
An adaptive method of lines with error control for parabolic equations of the reaction-diffusion type
[AD-A142253] 19 p3090 N84-29616
Jackknife and bootstrap inference in regression and a class of representations for the LSE
[AD-A141505] 19 p3093 N84-29641
A stochastic approach to global error estimation in the numerical solution of ordinary differential equations 19 p3118 N84-29815
Grid-size reduction in flow calculations on infinite domains by higher-order far-field asymptotics in numerical boundary conditions
[NLR-MP-83029-U] 20 p3187 N84-30253
TM failed detectors data replacement 20 p3208 N84-30382
Assessment of Thematic Mapper band-to-band registration by the block correlation method 20 p3210 N84-30396
Sensitivity of SLR baselines to errors in Earth orientation 20 p3220 N84-30461
The ERODYN and QRPIG computer programs 20 p3221 N84-30468
Data integrity factors affecting the construction of the mapping, charting, and geodesy data base
[NASA-CR-173835] 20 p3228 N84-30511
Bias removal for conventional magnetotelluric data
[DE84-012189] 20 p3241 N84-30579
Instrumentation for in-flight acoustic measurements in an engine intake
[NLR-MP-83060-U] 20 p3292 N84-30898
Operational parameters of a 2.0-MeV RFQ linac
[DE84-011368] 21 p3387 N84-31498
Link between blood catecholamine levels and individual features in dynamics of operator error 21 p3456 N84-31929
Fault tolerant software modules for SIFT
[NASA-CR-165874] 21 p3463 N84-31955
Fundamental research in applied mathematics
[AD-A143123] 21 p3474 N84-32016
Sources of error in objective analysis
[AD-A142772] 21 p3474 N84-32020
Asteroid light inversion
[NASA-CR-173864] 21 p3523 N84-32316
A strategy for successful deep space information transmission in bad weather 22 p3574 N84-32635
Earth orientation effects on mobile VLBI baselines 22 p3575 N84-32642
A theory of error-based testing
[AD-A143533] 22 p3640 N84-33081
Graphical error analysis
[BMFT-FB-T-84-081] 22 p3642 N84-33093
On accuracy conditions for the numerical computation of waves
[NASA-CR-172433] 22 p3645 N84-33111
Planetary data definition 23 p3841 N84-34367
Decision rules applied to spread spectrum signal detection
[AD-A144253] 24 p3894 N84-34661
Contribution to the performance of microjets
[NASA-TM-77730] 24 p3900 N84-34694
Undetected error probability and throughput analysis of a concatenated coding scheme
[NASA-CR-173983] 24 p3945 N84-34977

ERROR BAND
U ACCURACY

ERROR CORRECTING CODES
On the probability of undetected error for the maximum distance separable codes
[NASA-CR-170604] 02 p0279 N84-11829
Fault tolerant signal processing using finite fields and error-correcting codes
[AD-A133927] 05 p0667 N84-14386
Self-correcting electronically scanned pressure sensor
[NASA-CASE-LAR-12686-1] 05 p0683 N84-14491
A case grammar approach to error correction in computer programs 05 p0721 N84-14725
Investigation of intrinsically error-free programs
[AD-A132934] 05 p0730 N84-14791
Permanence analysis of a concatenated coding scheme for error control
[NASA-CR-175345] 07 p0991 N84-16422
Bit weighting and soft decision demodulation for image compression & error control
[AD-A134187] 07 p1054 N84-16825
Data transmission at 1200 Baud in mobile or fixed radio links with interchannel interferences 10 p1478 N84-19655
A range of combined error corection and recording channel code schemes
[BBC-RD-1983/16] 11 p1642 N84-20732
Applications of coding to spread spectrum communications 13 p1976 N84-22829
Trends in convolutional coding 13 p1976 N84-22830
Cyclic ST-AN codes and modular ST distance
[AD-P002367] 14 p2194 N84-24158
An experimental system of FM data-broadcasting
[NHK-SERIAL-293] 15 p2319 N84-24919
On the undetected error probability of a concatenated coding scheme for error control
[NASA-CR-173613] 16 p2541 N84-26313
Fast decoding of a d(min) = 6 RS code
[NASA-CR-173620] 16 p2544 N84-26326
An extended d(min) = 4 RS code
[NASA-CR-173619] 16 p2544 N84-26327
A computer algorithm for correcting spelling and typographical errors in subject headings 16 p2566 N84-26463
Probability of undetected error after decoding for a concatenated coding scheme
[NASA-CR-173637] 21 p3470 N84-31992
Error-trellis syndrome decoding techniques for convolutional codes 22 p3574 N84-32633
Algorithms for error localization of discrete data
[DE84-014417] 22 p3641 N84-33089

ERROR CORRECTING DEVICES
Path correction of free flight projectiles by cross firing of subsidiary projectiles
[FOA-C-20468-D3] 07 p0962 N84-16236
Fast decoding techniques for extended single-and-double-error-correcting Reed Solomon codes
[NASA-CR-173617] 16 p2543 N84-26325

ERROR DETECTION CODES
Transient-temperatures-measurement errors
[DE83-006300] 01 p0085 N84-10549
Automatic-repeat-request error control schemes
[NASA-CR-170605] 02 p0207 N84-11353
On the probability of undetected error for the maximum distance separable codes
[NASA-CR-170604] 02 p0279 N84-11829
Perkin-Elmer, Perkin-Elmer 3230 COBOL R07 (pre-release)
[PB83-238600] 03 p0423 N84-12766
A study of software failures and recovery in the MVS operating system
[AD-A132681] 05 p0728 N84-14783
Permanence analysis of a concatenated coding scheme for error control
[NASA-CR-175345] 07 p0991 N84-16422
Error latency estimation using functional fault modeling
[NASA-CR-173207] 07 p1058 N84-16856
Analysis of an error detection scheme for parallel computations
[AD-A134819] 08 p1152 N84-17496
Very large scale integration logical and physical structures of VLSI systems
[BMFT-FB-T-83-267] 10 p1488 N84-19730
A range of combined error corection and recording channel code schemes
[BBC-RD-1983/16] 11 p1642 N84-20732
Contribution to the question bit error performance of CCITT study group 18
[FI-44-TBR-92] 12 p1810 N84-21799
A study of error detection and correction codes
[AD-A139398] 14 p2156 N84-23917
Low power 2-of-3-valued CMOS self-checking circuits
[AD-P002334] 14 p2190 N84-24125
Cyclic ST-AN codes and modular ST distance
[AD-P002367] 14 p2194 N84-24158
A method of test generation for verification of wiring correctness
[AD-P002376] 14 p2195 N84-24167
Dimensionality, scoring, and related problems in adaptive testing
[AD-A139849] 15 p2383 N84-25290
The SIFT code specification 15 p2387 N84-25316
The proof of the SIFT implementation 15 p2387 N84-25317
A formal semantics for the SRI hierarchical program design methodology 15 p2387 N84-25318
On why it is impossible to prove that the BDX90 dispatcher implements a time-sharing system 15 p2387 N84-25319
Defining of the BDX930 assembly language 15 p2387 N84-25320
Verification of numerical algorithms 15 p2387 N84-25321
Problems of computing costs in decision problems 16 p2505 N84-26075
Reliability and discernability of extended Gauss-Markov models 16 p2505 N84-26076
Fast decoding of a d(min) = 6 RS code
[NASA-CR-173620] 16 p2544 N84-26326
An extended d(min) = 4 RS code
[NASA-CR-173619] 16 p2544 N84-26327
Ada advanced error detector
[AD-A140273] 16 p2544 N84-26334
A computer algorithm for correcting spelling and typographical errors in subject headings 16 p2566 N84-26463
Runtime detection and description of deadness errors in Ada tasking
[AD-A142239] 19 p3079 N84-29535
J73AVS: A JOVIAL J73 automated verification system
[AD-P003521] 21 p3329 N84-31125
Algorithms for error localization of discrete data
[DE84-014417] 22 p3641 N84-33089
Undetected error probability and throughput analysis of a concatenated coding scheme
[NASA-CR-173963] 24 p3945 N84-34977

ERROR FUNCTIONS
Deformable subreflector computed by geometric optics 04 p0519 N84-13407
The amplitude density function and high-resolution frequency analysis of time series
[AD-A132466] 04 p0592 N84-13906
Analysis of a fully discrete scheme for the neutron transport in cylindrical geometry
[CTH-MATH-1984-1] 13 p2041 N84-23246
High-gain error actuated flight control systems for continuous linear multivariable plants
[AFIT/GAE/EE/82D-1] 15 p2254 N84-24534
Assurance of unity of tests of semiconductor products 17 p2637 N84-26868

ERROR SIGNALS
Issues critical to the application of adaptive array antennas to missile seekers
[AD-A133401] 06 p0824 N84-15371
Error response of a trapezoidal pulses DME technique disturbed by multipath effects and noise
[ESA-TT-747] 16 p2482 N84-25915
On fixed-interval minimum symbol error probability detection
[AD-A142465] 20 p3283 N84-30849

ERRORS
NT BORESIGHT ERROR
NT INSTRUMENT ERRORS
NT PHASE ERROR
NT PILOT ERROR
NT POSITION ERRORS
NT RANDOM ERRORS
NT RANGE ERRORS
NT TRUNCATION ERRORS
NT VELOCITY ERRORS
A numerical analyst's Jordan canonical form
[AD-A130775] 01 p0133 N84-10873
Control of precious-metal plating baths using electrogravimetric analysis
[DE83-016772] 02 p0196 N84-11276
Evaluation of controlling low altitude aerial photography using high altitude aerotriangulation 02 p0234 N84-11539
Computation of Bessel functions of complex argument and large order
[DE83-014483] 02 p0282 N84-11851
Improving NDE (Non-destructive evaluation) capability through multiple inspection with application to gas turbine engine disks
[AD-A131762] 03 p0385 N84-12509
AMIX: An automated system for handling error notification data — amendments on UNIX (trademark); AMIX 05 p0722 N84-14734
A study of software failures and recovery in the MVS operating system
[AD-A132681] 05 p0728 N84-14783
An investigation of methods for reducing sampling error in certain IRT (Item Response Theory) procedures
[AD-A133848] 05 p0739 N84-14853
On the use of marginal likelihood in time series model estimation
[AD-A132828] 05 p0740 N84-14862
Incident reporting: Its role in aviation safety and the acquisition of human error data 06 p0775 N84-15081
All-fiber gyroscope with optical-Kerr-effect compensation 06 p0846 N84-15518
On the maximum likelihood estimate for logistic errors-in-variables regression models
[AD-A133253] 06 p0904 N84-15868
Comments on bounded error adaptive control
[NASA-CR-173139] 07 p1057 N84-16848
Accuracy considerations when using some minicomputers for scientific and engineering problems
[AD-A134141] 07 p1061 N84-16878
The use of refined error bound when updating eigenvalues of tridiagonals
[AD-A134163] 07 p1061 N84-16879
Error estimators for stiff differential equations
[DE84-003331] 07 p1064 N84-16901
Aircrew Automated Escape Systems (AAES) In-service Usage Data Analyses, volume 2
[AD-A134834] 08 p1100 N84-17155
Measurement of robot accuracy using the Latin Square Three-Dimensional Ball Plate
[DE84-004920] 08 p1206 N84-17962
Method for counting errors, deletions, and additions when both transmitted and received data are known
[PB84-127620] 09 p1305 N84-18531
A statistical study of h[illegible]ated software errors in MVS
[AD-A135726] p1368 N84-18931
Analysis of reliab[illegible]gorithms for local networks
[AD-A135807] 09 p1369 N84-18935
Program ERROR
[PB84-128081] 09 p1370 N84-18946
On the robust rank analysis of linear models with nonsymetric error distributions
[AD-A135792] 09 p1377 N84-18994
Simulations for full unit-memory and partial unit-memory convolutional codes with real-time minimal-byte-error probability decoding algorithm 10 p1474 N84-19629
Experimental measurement of material damping using digital test equipment 10 p1514 N84-19913
Crop area estimation based on remotely-sensed data with an accurate but costly subsample
[E84-10087] 10 p1521 N84-19958
Addressee errors in ATC communications: The call sign problem
[NASA-CR-166462] 11 p1603 N84-20501
Development of a VOR/DME model for an advanced concepts simulator
[NASA-TM-85717] 11 p1604 N84-20505
Transmitted thrust on a large dual rail rocket sled system
[AD-A137151] 11 p1621 N84-20608
The Lorentz Transformation and the radar Doppler equation
[AD-A137901] 11 p1643 N84-20745
Location errors in time-of-arrival types of systems with augmenting equations
[DE84-006250] 11 p1717 N84-21198
Effects of a porous plug on orifice induced static pressure error 12 p1764 N84-21507
Contribution to the question bit error performance of CCITT study group 18
[FI-44-TBR-92] 12 p1810 N84-21799
Observing system simulation experiments related to space-borne Lidar wind profiling. Part 2: Sensitivity to atmospheric and instrumental influences 12 p1850 N84-22053
Empirically derived second order schemes for the advection equations with minimum dissipation and dispersion errors 12 p1853 N84-22073
A study of Western North Pacific tropical storms and typhoons that intensify after recurvature
[AD-A138792] 13 p2017 N84-23075
Stability and performance deterioration due to modelling errors — plant models
[RR-236] 13 p2031 N84-23166
CONUS Loran-C error budget: Flight test
[AD-A139871] 15 p2259 N84-24568
Two types of errors made in prediction wave attenuation by rain 15 p2322 N84-24945
Time interval errors of a Flicker-noise generator 16 p2480 N84-25902
Study of NOAA (National Oceanic and Atmospheric Administration) WP-3D terminal navigation errors based on navigators logbooks: 1977-1983
[PB84-155738] 17 p2605 N84-26692

Improvement in analog error autocorrection circuit
17 p2634 N84-26855
Criteria for accuracy of rotary transformers
17 p2635 N84-26857
Altimeter height measurement errors introduced by the presence of variable cloud and rain attenuation
17 p2716 N84-27289
Effect of manufacturing errors on field quality of the LBL SSC dipoles
[DE84-009224] 19 p3033 N84-29238
Error in CALSPAN 3-dimensional crash vehicle simulation computer program for the case of massless segments
[AD-A141783] 19 p3078 N84-29528
Runtime detection and description of deadness errors in Ada tasking
[AD-A142239] 19 p3079 N84-29535
The effect of aggregation in nonlinear regression
[AD-A141728] 19 p3087 N84-29597
Error estimations and adaptive techniques for nonlinearized parametrized equations
[AD-A142041] 19 p3088 N84-29607
An adaptive method of lines with error control for parabolic equations of the reaction-diffusion type
[AD-A142253] 19 p3090 N84-29616
A computer model for evaluation of launch vehicle and target tracking error assignments for direct ascent, deep space ASAT (Anti-satellite) systems
[AD-A141136] 20 p3134 N84-29898
Results of the first complete static calibration of the RSRA rotor-load-measurement system
[NASA-TP-2327] 21 p3328 N84-31111
Correlational estimation of parameters of solid state microwave devices 22 p3570 N84-32609
Test procedures and design methods for reliable large scale integrated circuits and systems
[AD-A143324] 22 p3638 N84-33061
Development of real-time error ellipses as an indicator of Kalman filter performance
[AD-A143696] 23 p3812 N84-34174
Comparison of frequency-domain and time-domain rotorcraft vibration control methods
[NASA-CR-166570] 24 p3852 N84-34431
Atmospheric refraction error and its compensation for passive optical sensors
[AD-A144377] 24 p3963 N84-35098

ERS-1 (ESA SATELLITE)
Variations of ocean surfaces from ERS-1 altimeter data for repetitive orbits 02 p0233 N84-11532
The European Space Agency's Earth observation satellite programmes 06 p0867 N84-15647
Chirp signal generator feasibility study — ERS-1 altimeter
[TH-CSF-DASM-83/001/106] 07 p0999 N84-16482
The first European Remote Sensing Satellite (ERS-1): Overall description, potential applications and users
08 p1175 N84-17654
Scatterometer System Simulator (SSS), phase 1: Definition — ERS-1 (ESA satellite)
[ESA-CR(P)-1788] 08 p1191 N84-17765
A new Traveling Wave Tube (TWT) cooling concept — for ers-1 10 p1445 N84-19438
Precise orbit determination for ERS-1
[ESA-CR(P)-1842] 12 p1776 N84-21591
Technical addendum to the study: ERS-1 Mission, Fucino Station. SAR processor based upon EMMA architecture
[ERI-171] 12 p1809 N84-21791
ERS-1 Mission: Fucino Station
[ESA-CR(P)-1831-VOL-2] 12 p1809 N84-21792
Study of wind scatterometer antenna for ERS-1. Volume 1: Executive summary report
[Y/A-3380] 13 p2017 N84-23080
Study of windscatterometer antenna for ERS-1
[MIX/A-3188] 13 p2018 N84-23081
Geophysical use of the data of the ERS-1 altimeter
23 p3776 N84-33943
An R and D model of a synthetic aperture radar antenna 23 p3777 N84-33949
ERS synthetic aperture radar design
23 p3783 N84-33989
The active microwave instrument for ERS-1
23 p3783 N84-33990
ERS-1 system simulation and calibration
23 p3783 N84-33991
Verification techniques for satellite-borne synthetic aperture radars 23 p3783 N84-33992
The in-flight calibration of a satellite-borne wind scatterometer — ERS-1 (ESA) 23 p3783 N84-33993
The ERS-1 ground segment 23 p3783 N84-33994
European plans for handling off-line tasks of the ERS-1 23 p3784 N84-33997

ERTS
U LANDSAT SATELLITES

ERTS-D
U LANDSAT 4

ERYTHROCYTES
Condition of erythrocytes during long-term exposure to magnetic field 02 p0261 N84-11711
Coil planet centrifugation as a means for small particle separation
[NASA-TM-82561] 04 p0570 N84-13756
Effect of periodic accelerations of 5 G on kinetics of erythrocyte hemolysis in white rats
07 p1046 N84-16782
Study of erythrocyte adhesion in cosmonauts
15 p2375 N84-25252
Dynamics of red blood cell changes in rats during acute immobilization 20 p3254 N84-30651
Influence of microwave electromagnetic radiation and certain hormones on osmotic resistance of mouse erythrocytes 20 p3259 N84-30682
Effects of whole-body cold exposure on erythrocyte morphology 21 p3452 N84-31906

ESA
U EUROPEAN SPACE AGENCY

ESA SATELLITES
NT ERS-1 (ESA SATELLITE)
NT EUROPEAN COMMUNICATIONS SATELLITE
NT EXOSAT SATELLITE
NT HIPPARCOS SATELLITE
NT L-SAT
NT MAROTS (ESA)
NT METEOSAT SATELLITE
NT OTS (ESA)
Report in interplanetary space physics
[ISFI-84-8] 18 p2950 N84-28708

ESA SPACECRAFT
NT ESA SATELLITES
NT GIOTTO MISSION
NT L-SAT
NT MAROTS (ESA)
NT METEOSAT SATELLITE
NT OTS (ESA)
The application of the black electrically conductive coating CHEMGLAZE L300
[ESA-PSS-01-735-ISSUE-1] 16 p2471 N84-25835
Basic requirements for product assurance of ESA spacecraft and associated equipment
[ESA-PSS-01-0-ISSUE-1] 16 p2499 N84-26034
Quality assurance of ESA spacecraft and associated equipment
[ESA-PSS-01-20-ISSUE-1] 16 p2499 N84-26036
The particle and ultraviolet (UV) radiation testing of space materials
[ESA-PSS-01-706-ISSUE-1] 16 p2555 N84-26393
The evaluation and approval of automatic machine wave soldering for ESA spacecraft hardware
[ESA-PSS-01-707] 20 p3182 N84-30215

ESAKI DIODES
U TUNNEL DIODES

ESCAPE
A research study of the assessment of escape impairment by irritant combustion gases in postcrash aircraft fires
[FAA-CT-84-16] 22 p3533 N84-32366

ESCAPE (ABANDONMENT)
Escape and rescue model 04 p0512 N84-13361
Effective-width model for evacuation flow
04 p0512 N84-13362
Measuring evacuation difficulty
04 p0512 N84-13363

ESCAPE ROCKETS
History of aircraft escape system propulsion
20 p3141 N84-29941
Propulsion in a life-saving role for ACES 2
20 p3141 N84-29942
The Stencel S4S ejection seat: A study in new pyrotechnic developments 20 p3141 N84-29943

ESCAPE SYSTEMS
Douglas Aircraft Company Advanced Concept Ejection Seat (ACES 2), revision c
[AD-A133628] 05 p0628 N84-14131
Aircrew Automated Escape Systems (AAES) in-service Usage Data Analyses, volume 1
[AD-A134833] 08 p1100 N84-17154
Physiological acceptability tests of the modified SJU-5/A ejection seat for the F-18 aircraft
[AD-A139416] 14 p2103 N84-23614
A test of electroluminescent panels for a helicopter emergency escape lighting system
[AD-A139478] 14 p2103 N84-23616
Aircrew Gliding Escape System (AGES) exploratory development investigation of aircrew emergency escape ram-air inflated, flexible wing
[AD-A139928] 15 p2258 N84-24565
Proposed crashworthiness requirements for the Australian Basic Trainer
[AD-A140850] 17 p2603 N84-26682
History of aircraft escape system propulsion
20 p3141 N84-29941
Propulsion in a life-saving role for ACES 2
20 p3141 N84-29942
The Stencel S4S ejection seat: A study in new pyrotechnic developments 20 p3141 N84-29943
Crest: Crew escape technologies for the 1990's
20 p3141 N84-29944
Energy management for crew escape systems
20 p3141 N84-29945

ESCAPE VELOCITY
Impact and explosion crater ejecta, fragment size, and velocity
[NASA-CR-174578] 05 p0733 N84-14813
Electromagnetic launchers and guns, phase 1
[AD-A143778] 23 p3698 N84-33435

ESCARPMENTS
A tectonic geomorphological classification of the walls of Valles Marineris 13 p2067 N84-23518

ESG (GYROSCOPES)
U ELECTROSTATIC GYROSCOPES

ESKERS
U GLACIAL DRIFT

ESRO
U EUROPEAN SPACE AGENCY

ESRO SATELLITES
U ESA SATELLITES

ESTERS
NT ACRYLATES
NT CELLULOSE NITRATE
NT GLYCERIDES
NT ISOCYANATES
NT LACTATES
NT LEXAN (TRADEMARK)
NT MALEATES
NT NITRATE ESTERS
NT PETN
NT POLYCARBONATES
NT POLYESTERS
NT SULFONATES
NT URETHANES
Structure-activity correlations for organophosphorus ester anticholinesterases. Part 2: CNDO/2 calculations applied to ester hydrolysis rates
[NASA-TM-85888] 07 p0966 N84-16257
Impedance and ellipsometer measurements of lithium electrodes in propylene carbonate solutions
[DE84-003922] 07 p0998 N84-16475
Time-temperature studies of high temperature deterioration phenomena in lubricant systems: Synthetic ester lubricants
[AD-A135464] 08 p1166 N84-17594
Synthesis of energetic prepolymers
[AD-A135770] 09 p1288 N84-18409
Resin composition
[NASA-TM-77457] 10 p1451 N84-19477
Modeling effects of composition on the burn rates of nitrate ester-based energetic binders
13 p1951 N84-22685
Application of the liquid column chromatography to the study of lubricating oils and esters separation
18 p2617 N84-27889
Application of liquid column chromotography to the study of lubricant oils and ester separation
18 p2619 N84-27903
Synthesis of diazidodiesters 20 p3143 N84-29956

ESTIMATES
NT COST ESTIMATES
Approach to establishing the effect of aeroelasticity on aerodynamic characteristics of the space shuttle orbiter
01 p0021 N84-10133
Subsonic longitudinal performance coefficient extraction from shuttle flight data: An accuracy assessment for determination of data base updates
01 p0026 N84-10163
Open-cycle vapor compression heat pump
[PB83-228429] 01 p0059 N84-10384
The relevance of experimental animal studies to the human experience
[DE83-014053] 01 p0112 N84-10729
Measurement of lung function using the magnetometer system
[AD-A130841] 01 p0114 N84-10738
Minimum distance estimation of mixture model parameters: Asymptotic results and simulation comparisons with maximum likelihood
[AD-A130426] 01 p0136 N84-10889
Journal of Research of the National Bureau of Standards, volume 88, number 1, January - February 1983
[PB83-226704] 01 p0160 N84-11055
Estimates of millimeter wave attenuation for 18 United States cities
[PB83-240630] 02 p0211 N84-11381
Estimating temperature and moisture regimes in forest and rangeland soils using thermal remote sensing
[PB83-237453] 02 p0241 N84-11577

Statistical correlations of surface wind data: A comparison between a National Weather Service station and a nearby aerometric network
[PB83-237263] 02 p0257 N84-11680
Estimation of uncertainty in coal resources
[DE83-902538] 03 p0401 N84-12620
Asymptotic maximal deviation of m-smoothers
[AD-A131906] 03 p0427 N84-12799
An approximate method of estimating the aerodynamic interference between two parallel bodies (normal force and side force)
[NAL-TR-752] 04 p0479 N84-13154
Analysis of lead-acid battery accelerated testing data
[DE83-017403] 04 p0528 N84-13473
Parametric model for peak flow prediction in ungaged ephemeral watersheds
[PB83-249698] 04 p0555 N84-13658
Rain estimation from satellites: An examination of the Griffith-Woodley technique
[NASA-TM-84969] 04 p0566 N84-13735
On the growth of the spherical derivative of a meromorphic function 04 p0575 N84-13785
Initial estimates of damping rates and frequencies
[ARL-STRUC-NOTE-485] 04 p0587 N84-13879
Various solutions in multiple Bayesian's decision and multinormal estimation problems
[TR-78] 04 p0588 N84-13882
Passive source localization from spatially correlated angle-of-arrival data
[AD-A133141] 06 p0822 N84-15362
A note on the analysis of random balance designs
[AD-A133287] 06 p0901 N84-15848
An estimation problem relating to subset selection for normal populations
[AD-A133387] 06 p0904 N84-15870
Stratospheric determination of effective photodissociation cross sections for molecular oxygen: 191-204 nm
[AD-A134168] 07 p1034 N84-16706
An approach to rotation invariant texture classification and some experimental results
[AD-A134197] 07 p1061 N84-16881
Preparing meteorological data for use in routine dispersion calculations: Workgroup summary
[PB84-119890] 08 p1193 N84-17774
Design criteria and eigensequence plots for satellite computed tomography
[NASA-CR-172787] 09 p1257 N84-18276
Polyreference software
[NASA-CR-170961] 09 p1366 N84-18918
Geostatistics software user's manual for the Geosciences Research and Engineering Department PDP 11/70 computer
[DE84-004149] 09 p1369 N84-18940
On the robust rank analysis of linear models with nonsymetric error distributions
[AD-A135792] 09 p1377 N84-18994
Robust estimation based on Walsh averages for the general linear model
[AD-A136187] 09 p1378 N84-19004
Estimation and reconstruction for stochastic processes and deterministic functions
[AD-A136571] 09 p1382 N84-19024
Testing hypotheses in linear models with weighted rank statistics
[AD-A135759] 09 p1383 N84-19032
The Cauchy and Born hypotheses for crystals
[AD-A136374] 09 p1395 N84-19107
Abrasion by aeolian particles: Earth and Mars
[NASA-CR-3788] 11 p1628 N84-20654
Relation of urban model performance to stability
[PB84-130418] 11 p1676 N84-20940
Distributed estimation systems
[AD-P002898] 13 p1980 N84-22857
Optimal maneuver detection and estimation in multiobject tracking
[AD-P002899] 13 p1981 N84-22858
Estimating monthly rainfall from geostationary satellite imagery over Amazonia, Brazil 13 p2016 N84-23069
Estimates of one-dimensional oscillatory integrals
13 p2032 N84-23179
Morphology of buried craters: Lava thickness estimates by simulated flooding 13 p2079 N84-23471
General aviation pilot and aircraft activity survey
[PB84-154301] 14 p2100 N84-23602
A study of helicopter gust response alleviation by automatic control
[NASA-TM-85870] 14 p2111 N84-23655
A minimization method for engineering estimation
[AD-P002372] 14 p2195 N84-24163
Application of the principal component method to trajectory estimation
[AD-P002951] 14 p2199 N84-24191
Extension in Hardy classes of holomorphic functions and Carleson measures estimates for the bar delta equation
14 p2210 N84-24268
Characterization and estimation of 2-dimensional ARMA (Autoregressive Moving Average) models
[AD-A139120] 14 p2211 N84-24279
Uniqueness of connecting orbits in the equation y(3) = y2 - 1
[AD-A139261] 14 p2213 N84-24289
Overcoming unobservability in 3-axis stabilization of satellites 15 p2267 N84-24610
Vibrations of and radiation from shell of revolution under hoop load 17 p2649 N84-26940
Estimating unbiased horizontal velocity components from ST/MST radar measurements: A case study
17 p2687 N84-27110
An application of the H-function to curve-fitting and density estimation
[AD-A141045] 18 p2925 N84-28553
Extreme value estimates for arbitrary bandwidth Gaussian processes using the analytic envelope
[AD-A141685] 19 p3086 N84-29591
The effect of aggregation in nonlinear regression
[AD-A141728] 19 p3087 N84-29597
Error estimations and adaptive techniques for nonlinearized parametrized equations
[AD-A142041] 19 p3088 N84-29607
Decentralized estimation in communication networks with delay
[AD-A142376] 20 p3174 N84-30155
Compensating technique using one active control scheme to nullify the acummulated effect of modelling deviation
[INPE-3181-PRE/546] 21 p3471 N84-31996
Asymptotic estimates for resolvents of some nonintegrable Volterra kernels
[AD-A141662] 21 p3471 N84-31999
The use of double sampling in studying robustness
[AD-A142982] 21 p3475 N84-32022
Locating and estimating air emissions from sources of chloroform
[PB84-200617] 22 p3619 N84-32935
Optical acquisition, image and data compression
[AD-A143984] 23 p3816 N84-34197
Analysis, modeling and control of dynamical systems
[AD-A143937] 23 p3818 N84-34209
Introduction to simulation of upper atmosphere oxygen satellite exposed to atomic oxygen in low Earth orbit
24 p3863 N84-34479
Methods for estimating physicochemical properties of inorganic chemicals of environmental concern
[AD-A144154] 24 p3917 N84-34799

ESTIMATING

NT ORBITAL POSITION ESTIMATION
NT PARAMETER IDENTIFICATION
NT SYSTEM IDENTIFICATION

Directionally efficient robust estimators of location via exponential embedding
[AD-A130525] 01 p0130 N84-10854
Robust ABLUE's (Asymptotically Best Linear Unbiased Estimators) for location and scale parameter estimation
[AD-A130752] 01 p0132 N84-10867
A note on optimal and robust spacing selection
[AD-A130427] 01 p0136 N84-10888
Further examination of simulated percentage points
[AD-A130338] 01 p0136 N84-10893
The heteroscedastic method: Theory and applications
[AD-A129525] 01 p0137 N84-10895
Optimization of next-event estimation probability in Monte Carlo shielding calculations
[DE83-012643] 01 p0137 N84-10900
Time series model identification by estimating information, memory and quantiles
[AD-A131155] 02 p0281 N84-11843
Robust estimates of ordered parameters
[AD-A131204] 02 p0282 N84-11846
The linear hierarchical model and its application in the econometric analysis
[CSIR-TWISK-274] 04 p0587 N84-13875
Estimation of the Manova eigenvalues under the random effects model
[CSIR-TWISK-271] 04 p0587 N84-13877
Time delay estimation using the adaptive delay element
[DE84-002042] 06 p0830 N84-15403
A law of the iterated logarithm for non-parametric regression function estimators
[AD-A133260] 06 p0901 N84-15847
Experimental designs for quantal response models
[AD-A133416] 06 p0901 N84-15851
On jackknifing kernel regression function estimators
[AD-A133236] 06 p0904 N84-15867
Estimation of flight-mechanical motion characteristics with Kalman filters 07 p0944 N84-16126
Estimation of posterior probabilities using multivariate smoothing splines and generalized cross-validatiun
[AD-A134518] 07 p1062 N84-16884
Hierarchical cache accumulators for sequential mode estimation
[AD-A134698] 08 p1212 N84-17908
Spline-based estimation techniques for parameters in elliptic distributed systems
[NASA-TM-85439] 08 p1218 N84-17947
Algorithms, modeling and estimation for linear systems
[AD-A135134] 08 p1218 N84-17951
Center of Excellence for Applied Mathematical and Statistical Research in support of development of multicrop production monitoring capability
[E84-10062] 10 p1520 N84-19953
Crop area estimation based on remotely-sensed data with an accurate but costly subsample
[E84-10087] 10 p1521 N84-19958
Estimation of two-parameter logistic item response curves
[AD-A137223] 10 p1569 N84-20280
On the estimation of spectral parameters using burst waveforms
[AD-A137932] 11 p1644 N84-20746
Multi-Bayesian estimation theory
[CSIR-TWISK-296] 11 p1712 N84-21160
Smoothing, regularization and ill-posed inverse problems; robust and convex estimation of functions of several variables
[AD-A137810] 11 p1714 N84-21176
Randomized estimators for time integrals
[AD-A137921] 11 p1714 N84-21180
Error analysis of vapor pressure measurements
[AD-A137584] 11 p1728 N84-21271
Some considerations in estimating data transformations
[AD-A137960] 12 p1893 N84-22329
On the asymptotics of maximum likelihood and related estimators based on type 2 censored data
[AD-A137958] 12 p1896 N84-22348
On 'Before' and 'After' cost comparisons
[AD-P002799] 13 p2058 N84-23345
Nonlinear least squares regression using STAR-PAC: The standards time series and regression package
[PB84-166214] 15 p2394 N84-25365
Estimating network reliability with accelerated convergence rates on error bounds
[AD-A139841] 15 p2397 N84-25383
Estimation of the parameters of an unmodulated carrier signal disturbed by complex-multiplicative and additive Gaussian noise
[ESA-TT-737] 16 p2482 N84-25914
Solar and internal gain adjustments in calculation of energy conservation savings
[DE83-011983] 16 p2512 N84-26119
Estimation of wear rate during selective mass transfer
17 p2642 N84-26903
Estimating thermal fatigue strength of prototype blades in gas turbine engine 17 p2642 N84-26906
A sampling system for estimating the cultivation of wheat (Triticum aestivum L) from LANDSAT data
[E84-10165] 17 p2711 N84-27257
Interactive risk analysis and development of standardized factors
[AD-A140758] 17 p2753 N84-27473
Estimating reliability of an electrical insulating system
[DE84-010633] 18 p2834 N84-27993
Optimal and suboptimal estimation of nonlinear stochastic systems
[AD-A140929] 18 p2925 N84-28546
A method for the estimation of small perturbations
19 p3118 N84-29817
A high-resolution target-tracking concept using spectral estimation techniques
[AD-A141921] 20 p3173 N84-30149
State estimation and control of conditionally linear systems
[AD-A142455] 20 p3281 N84-30826
The use of double sampling in studying robustness
[AD-A142982] 21 p3475 N84-32022
Evaluation of methodologies for estimating vulnerability to electromagnetic pulse effects
[AD-A144408] 24 p3894 N84-34663
On parameter identification and state estimation for distributed parameter systems
[INPE-3236-PRE/585] 24 p3949 N84-35004
Information-theoretic non-parametric unimodal density estimation
[AD-A144522] 24 p3953 N84-35035

ESTIMATORS

A robust pseudo-inverse spectral filter applied to the Earth Radiation Budget Experiment (ERBE) scanning channels
[NASA-TM-85781] 15 p2370 N84-25219

ESTROGENS

Proceedings of the 13th Conference on Environmental Toxicology
[AD-A134150] 07 p1027 N84-16657

ESTUARIES
A research program in determination of heavy metals in sediments and benthic species in relation to nuclear power plant operation
[NASA-CR-173537] 15 p2366 N84-25195
Chesapeake Bay nutrient dynamics study
[PB84-190982] 20 p3229 N84-30524
Remote sensing of coastal environment: The estuarine processes of Ta-Tu River 24 p3955 N84-35039
ETCHING
Experimental and theoretical studies of electron beam lithography for the fabrication of semiconductor circuits with submicron dimensions: Water distortion, comparison of results
[BMFT-FB-T-83-088] 02 p0216 N84-11414
Laser chemical etching of vias in GaAs
[AD-A131288] 02 p0226 N84-11479
Electrochemical etching of titanium-alloy castings
[DE84-000244] 04 p0501 N84-13286
Laser photodeposition and photoetching study
[AD-A134095] 05 p0752 N84-14934
Etching of moldavities under natural conditions
[NASA-TM-77334] 05 p0764 N84-15014
Etching of defects on crystal surfaces
06 p0814 N84-15300
Dry etching of metallization 12 p1840 N84-21997
Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] 13 p2019 N84-23095
Laser-induced etching of insulators using a dc glow discharge in silane
[DE84-007570] 14 p2151 N84-23888
Micro-reactions of metal contacts on various types of GaAs surfaces
[AD-A139412] 14 p2242 N84-24484
High density circuit technology, part 3
[NASA-CR-162040] 19 p3012 N84-29090
Method for making Josephson junctions with contamination-free interfaces utilizing a ZNO contact insulator
[AD-D011057] 22 p3580 N84-32671
Wide spectrum antireflective coating for laser fusion systems
[DE84-013211] 22 p3601 N84-32814
Monolithic SAW oscillators on silicon
[AD-A143664] 23 p3741 N84-33716
Direct writing of microstructures for microelectronics
[AD-A144528] 24 p3898 N84-34687
Chemical etching of transformed structures
[AD-D011188] 24 p3966 N84-35114
ETHANE
Procedure for producing higher hydrocarbons
[NRC/CNR-TT-2073] 06 p0800 N84-15217
Diesel fuel extenders and substitutes
[DE84-003402] 08 p1167 N84-17597
Emissions and efficiency of agricultural diesels using low-proof ethanol as supplement fuel
[DE84-003931] 09 p1325 N84-18659
The 12 micron band of ethane: A spectral catalog from 765 cm(-1) to 900 cm(-1)
[NASA-TM-85108] 10 p1454 N84-19493
ETHERS
NT DIETHYL ETHER
NT POLYPHENYL ETHER
Thermal oxidative degradation reactions of perfluoroalkiethers
[NASA-CR-168224] 02 p0189 N84-11229
Time-temperature studies of high temperature deterioration phenomena in lubricant systems: Synthetic ester lubricants
[AD-A135464] 08 p1166 N84-17594
Synthesis and properties of phenylated aromatic heterocyclic imide and thiazole polymers containing pendant diphenylether and diphenylsulfide groups
[AD-A140341] 16 p2472 N84-25844
Nitrate ester polyether glycol prepolymers
20 p3142 N84-29947
Kinetics of complexation of the macrocycles 18C6 and 12C4 ethers with LiAsF-6 in 1,2-dimethoxyethane at 25 deg C
[AD-A143086] 21 p3359 N84-31304
Characterization of polyetheretherketone and other engineering thermoplastics
[DE84-010668] 23 p3725 N84-33603
ETHYL ALCOHOL
Ethyl alcohol fuel production from the Jerusalem artichoke
[DE83-013488] 02 p0203 N84-11326
Technical and economic study of ethanol distillation from low temperature sources
[DE83-013073] 02 p0204 N84-11327
Ethanol fuels reference guide: A decision-makers guide to ethanol fuels
[DE83-014401] 02 p0204 N84-11329
Preliminary experiments with an electro-osmotic heat pipe laboratory model
[AD-B081344] 15 p2332 N84-25004
Evaluation of the performance of filter separators with gasohol
[AD-A139645] 15 p2343 N84-25066
Utilization of alternative fuels in diesel engines
[NASA-CR-174669] 17 p2628 N84-26813
Nutritional and environmental factors in ethanol fermentation by Saccharomyces cerevisiae
[DE84-009693] 20 p3167 N84-30110
Occupational Medicine Relevant to Aviation Medicine
[AGARD-CP-341] 22 p3631 N84-33011
An unusual toxicological property of alcohol: The density effect on the organ of balance 22 p3632 N84-33016
Evaluation of sulfuric acid hydrolysis processes for alcohol fuel production
[DE84-004524] 23 p3715 N84-33548
ETHYL COMPOUNDS
Photodegradation of coumarin laser dyes. An unexpected singlet self-quenching mechanism
[AD-A136339] 09 p1321 N84-18628
Ethynyl and substituted ethynyl-terminated polysulfones
[NASA-CASE-LAR-12931-1] 13 p1962 N84-22747
ETHYLENE
NT VINYLIDENE
Surface science study of selective ethylene epoxidation catalyzed by the Ag(110) surface: Structural sensitivity
[DE84-001324] 04 p0494 N84-13246
Small gravitationally elicited voltage transients in pea stems 09 p1352 N84-18838
The roles of callose, elicitors and ethylene in thigmomorphogenesis and gravitropism
09 p1356 N84-18860
Participation of ethylene in gravitropism
09 p1359 N84-18878
Preliminary assessment of a rotary detonation engine concept
[AD-A137492] 10 p1431 N84-19354
Hysteresis in copolymers of vinylidene fluoride and trifluoroethylene
[AD-A137446] 10 p1466 N84-19577
Experimental study and modeling of the kinetics of hydrocarbon combustion 15 p2292 N84-24754
Promotion effects on the synthesis of higher alcohols
[DE84-009916] 20 p3166 N84-30109
The selective epoxidation of ethylene catalyzed by silver: Mechanistic details revealed by single-crystal studies
[DE84-009987] 21 p3506 N84-32215
ETHYLENE COMPOUNDS
NT CHLOROETHYLENE
NT ETHYLENEDIAMINE
Secondary ion emission from adsorbate layers on polycrystalline Ni 06 p0815 N84-15306
Photovoltaic module encapsulation design and materials section, volume 2
[NASA-CR-173902] 23 p3786 N84-34013
ETHYLENE OXIDE
Sterile devices: A GMP (Good Manufacturing Practices) workshop manual
[PB83-226563] 01 p0061 N84-10400
Dielectric relaxation in poly(ethylene oxide) complexed with alkali metal perchlorates
[AD-A134464] 07 p0970 N84-16284
Effect of pressure on conductivity in Poly(Ethylene oxide) complexed with alkali metal salts
[AD-A134562] 07 p0970 N84-16285
Uniaxial draw of poly(ethylene oxide) by solid state extrusion
[AD-A141923] 20 p3161 N84-30074
Electrical and differential scanning calorimetry studies of poly(ethylene oxide) complexed with alkaline earth thiocyanates
[AD-A143198] 22 p3546 N84-32449
NMP, electrical relaxation, and high pressure electrical conductivity in ion conducting polymers
[AD-A143202] 22 p3546 N84-32451
ETHYLENEDIAMINE
Intramolecular electron transfer at metal surfaces. 1. Relative energetics of some corresponding outer- and inner-sphere pathways involving halide and pseudohalide bridging ligands
[AD-A139021] 13 p1956 N84-22716
ETIOLOGY
Back pain in helicopter flight operations
16 p2537 N84-26288
ETTINGSHAUSEN COOLERS
U THERMOELECTRIC COOLING
EUCLIDEAN GEOMETRY
NT ANALYTIC GEOMETRY
NT ANGLE OF ATTACK
NT ANGLES (GEOMETRY)
NT BRAGG ANGLE
NT BREWSTER ANGLE
NT CARTESIAN COORDINATES
NT CIRCLES (GEOMETRY)
NT CONICS
NT ELEVATION ANGLE
NT ELLIPSES
NT FIXED POINTS (MATHEMATICS)
NT GEODESIC LINES
NT GREAT CIRCLES
NT HEXAGONS
NT HYPERBOLAS
NT LEADING EDGE SWEEP
NT LINES (GEOMETRY)
NT LOCI
NT MERCATOR PROJECTION
NT OBLATE SPHEROIDS
NT OCTAHEDRONS
NT PARABOLAS
NT PARALLELEPIPEDS
NT POINTS (MATHEMATICS)
NT POLYGONS
NT POLYHEDRONS
NT PROJECTIVE GEOMETRY
NT PROLATE SPHEROIDS
NT QUADRANTS
NT RADII
NT RECTANGLES
NT S CURVES
NT SPHEROIDS
NT SQUARES (MATHEMATICS)
NT SWEEP ANGLE
NT TANGENTS
NT TETRAHEDRONS
NT TORUSES
NT TRIANGLES
NT TRIGONOMETRY
NT ZERO ANGLE OF ATTACK
Centroid scaling of citation data: Charting the history of a scientific specialty, plate tectonics
01 p0104 N84-10673
On the structure of self-similar fractals
04 p0576 N84-13791
Quasiconformal semiflows 04 p0576 N84-13792
On the order of quasiregular mappings
04 p0576 N84-13793
F-harmonic measure in space
04 p0576 N84-13794
On Fuchsian groups of accessible type
04 p0576 N84-13795
Multi-dimensional continued fraction algorithms
08 p1225 N84-18003
A systolic VLSI design of a pipeline Reed-Solomon decoder 10 p1474 N84-19631
On the scattering of electromagnetic waves by perfectly conducting bodies moving in vacuum. Part 6: Manifolds in Euclidean spaces, regularity properties of domains
[AD-A141748] 19 p3006 N84-29053
EUCLIDEAN SPACE
U EUCLIDEAN GEOMETRY
EULER EQUATIONS OF MOTION
Eigenmode analysis of unsteady one-dimensional Euler equations
[NASA-CR-172217] 01 p0003 N84-10022
High resolution schemes and the entropy condition
[NASA-CR-172218] 01 p0128 N84-10836
Embedding methods for the steady Euler equations
[NASA-TM-83481] 02 p0279 N84-11831
Vortex flow simulations past wings using the Euler-equations 03 p0324 N84-12118
Numerical solutions of the Euler equations simulating vortex flows around wings 03 p0324 N84-12120
Three-dimensional implicit lambda methods
[NASA-CR-172264] 05 p0627 N84-14123
Eulerian and Lagrangian predictions of particulate two phase flows
[KU-SFB-80/T/222] 05 p0682 N84-14481
A lower-upper factored implicit scheme for the numerical solution of the Euler equations applied to arbitrary cascades 06 p0780 N84-15111
An introduction to numerical methods suitable for the Euler equations 06 p0835 N84-15431
Characterization of the pressure wave originating in the explosion of a gas cloud 06 p0836 N84-15446
Explicit multistage finite volume procedure to solve the Euler equations for transonic flow
06 p0838 N84-15464
Solvability of the leakage problem for the hydrodynamic Euler equations in Sobolev spaces
07 p1000 N84-16485
Three-dimensional unsteady Euler equation solutions using flux vector splitting
[NASA-CR-173254] 07 p1058 N84-16857
Spectral methods for the Euler equations: Chebyshev methods and shock-fitting
[NASA-CR-172295] 08 p1095 N84-17118
Spectral methods for the Euler equations: Fourier methods and shock-capturing
[NASA-CR-172294] 08 p1095 N84-17119

Studies and vorticity effects by the Euler equations with emphasis on supersonic flow fields
[AD-A135118] 08 p1157 N84-17535
Automatic adaptive grid refinement for the Euler equations
[NASA-CR-173161] 08 p1222 N84-17977
La Recherche Aerospatiale, bimonthly bulletin number 1983-2, 213/March-April
[ESA-TT-817] 08 p1226 N84-18013
Hot wire in low Reynolds number flow
08 p1237 N84-18087
Calculating C-grids with fine and embedded mesh regions
[CFDL-TR-83-7] 08 p1238 N84-18090
On the driving of ocean currents by Rossby waves
[AD-P002659] 11 p1690 N84-21024
Contribution to the study of a numerical implicit method for solving the Euler equations
[ONERA-NT-1983-8] 16 p2488 N84-25958
Computational Fluid Dynamics, volume 2
[VKI-LS-1984-04-VOL-2] 16 p2492 N84-25986
Recent developments in multigrid methods for the steady Euler equations 16 p2492 N84-25988
Implicit time dependent methods for the solution of the Euler equations 16 p2492 N84-25989
Implicit time dependent methods for the solution of the Euler equations. Part 2: Application to transonic flows
16 p2492 N84-25990
An analysis of rotor blade twist variables associated with different Euler sequences and pretwist treatments
[NASA-TM-84394] 17 p2606 N84-26693
Logarithmic decrement of oscillations of low-viscosity fluid rotating inside cylindrical vessel
17 p2645 N84-26921
An efficient approximate factorization implicit scheme for the equations of gasdynamics
[NASA-TM-85957] 19 p3082 N84-29556
Acceleration to a steady state for the Euler equations
[NASA-CR-172398] 20 p3126 N84-29852
Numerical solution of the Euler and the Navier-Stokes equations for a compressible flow problem
21 p3397 N84-31551
Flux-vector splitting and Runge-Kutta methods for the Euler equations
[NASA-CR-172415] 21 p3470 N84-31993
Simplifications in the simulation of mechanisms containing flexible members 22 p3607 N84-32855
Numerical solutions of acoustic wave propagation problems using Euler computations
[NASA-CR-172434] 22 p3645 N84-33112
Transonic viscous-inviscid interaction using Euler and inverse boundary-layer equations
23 p3688 N84-33376
Existence and equivalence of solutions of mixed problems for Euler's hydrodynamic equations
[ISSN-0208-5658] 23 p3745 N84-33738
A nonstationary relaxation technique for solving the equations of gas dynamics 23 p3746 N84-33746
Enthalpy damping for the steady Euler equations
[NASA-TM-86008] 24 p3950 N84-35009

EULER-CAUCHY EQUATIONS
The generalized Euler-Mascheroni constants
06 p0927 N84-16024
Seminar on Zeroing Methods and Applications, spring trimester, 1983 16 p2540 N84-26304
Similarity transformations of the Euler equations and their numerical evaluation 16 p2540 N84-26306

EULER-LAGRANGE EQUATION
Branching Atmospheric Trajectory (BAT) model
[PB83-233023] 01 p0110 N84-10717
LARC: Computer codes for Lagrangian analysis of stress-guage data to obtain decomposition rates through correlation to thermodynamic variables
[DE84-002404] 06 p0613 N84-15292
Regional acid deposition: Design and management plan for a comprehensive modeling system
[PB84-116003] 10 p1532 N84-20037
Equations of motion for rigid multibody systems
[AD-A137234] 10 p1569 N84-20281
Recursive lagrangian dynamics of flexible manipulator arms via transformation matrices
[AD-A137345] 10 p1574 N84-20316
Numerical prediction of multireactive turbulent flows by a Eulerian-Lagrangian method
[ONERA-NT-1983-9] 16 p2488 N84-25959
Method of deriving equations of motion for dynamically adjustable gyroscope 17 p2643 N84-26912
Treatment of walking as controllable self-excited oscillations 17 p2649 N84-26942
Numeric extension of periodic solutions to Lagrangian system with two degrees of freedom
19 p2972 N84-28843
An improved accuracy general remapping algorithm
[DE84-004320] 20 p3282 N84-30837
Linearized dynamical model for the NASA/IEEE SCOLE configuration
[NASA-CR-172394] 22 p3542 N84-32423

EURECA (ESA)
Feasibility study of an automatic protein growth facility using the retrievable carrier --- EURECA project
[MBB-URV-131(82)] 09 p1263 N84-18246
EURECA: An introduction to Europe's free-flying retrievable carrier
[ESA-BR-16] 09 p1272 N84-18308
System aspects of the European Retrievable Carrier (EURECA) thermal control system
10 p1444 N84-19432

EUROPA
Photometric properties of Europa and the icy satellites of Saturn 11 p1756 N84-21465
The Laplacian resonance and tidal dissipation
13 p2073 N84-23434
Geologic studies of outer solar system satellites: Iapetus and Europa 13 p2075 N84-23448
The crustal tectonics and history of Europa: A structural, morphological, and comparative analysis
15 p2426 N84-25568
Preliminary results of albedo correlation between Europa and Ganymede 15 p2427 N84-25581

EUROPE
Use of remote sensing methods for the ecological mapping project of the European community
03 p0395 N84-12580
Considerations on a permanent inventory and monitoring system for European forests 03 p0395 N84-12582
Science in the European Economic Community: A self-assessment and a detailed plan of action
[AD-A139078] 14 p2247 N84-24492
A radio interference model for western Europe
15 p2325 N84-24963
Euro-African MAGSAT anomaly-tectonic observations
15 p2355 N84-25129
Reduced to pole long-wavelength magnetic anomalies of Africa and Europe 15 p2355 N84-25132
Satellite magnetic anomalies of Africa and Europe
15 p2356 N84-25133
Long-wavelength magnetic and gravity anomaly correlations of Africa and Europe
15 p2356 N84-25135
New data on upper mantle literal inhomogeneities in western Eurasia 17 p2703 N84-27217
Structure and direction of evolution of European tectonosphere according to geological and geophysical data 17 p2706 N84-27233
Computation of a high resolution European Gravimetric Geoid (EGG 1) 17 p2727 N84-27356
Global radiation from satellite measurements
[MITT-37] 18 p2867 N84-28200
A directory of European, Middle Eastern, and North African coastal ground control points for mapping satellite images
[AD-A142019] 20 p3228 N84-30512
Physics in Europe: A data file of selected research
[AD-A143428] 22 p3674 N84-33289
Seasonal climate scenarios for Europe and North America in a high-CO2, warmer world
[DOE/EV-10098/5] 23 p3801 N84-34104
West Europe report: Science and technology, no. 157
[JPRS-84434] 24 p3892 N84-34645
East Europe report: Science and technology
[JPRS-ESA-84-025] 24 p3960 N84-35077

EUROPEAN AIRBUS
NT A-300 AIRCRAFT
Modification of wing design to increase lift for future Airbus derivatives (NEW)
[BMFT-FB-W-83-005] 02 p0178 N84-11167
Ground and inflight operational effects of APU's
03 p0335 N84-12182
Connection of large Airbus components taking example of control surfaces junctions
[MBB-UT-07-82-OE] 05 p0629 N84-14134
The aerospace industry in Germany: Today and tomorrow 12 p1764 N84-21501
The 310 airbus test in the ONERA wind tunnel: Flight-wind tunnel comparison 14 p2098 N84-23587
Airbus A-310. Tests in the ONERA's F1 wind tunnel: Comparison of flight/wind tunnel
[SNIAS-832-111-110] 15 p2257 N84-24556
Projects and programs as a reflection of the performances of engineers in aircraft making by Hans-Wocke
[MBB-UT-24-83-O] 16 p2433 N84-25608
Full Authority Digital Engine Control (FADEC)
[SNIAS-832-111-101] 16 p2450 N84-25714
The Airbus: The state-of-the-art today, and future developments
[MBB-UT-22-83-O] 16 p2562 N84-26437
Ground and inflight operational effects of APU's
[VFW-30/83-O] 16 p2562 N84-26438
NC-controlled machine with a cable
[MBB-UT-21-83-O] 16 p2564 N84-26450
Engine condition monitoring with aircraft integrated data systems on Lufthansa A310 17 p2585 N84-26571
First experience with ARINC 717 Aircraft Integrated Data Systems (AIDS) on Airbus 310 for maintenance support
17 p2586 N84-26572
Unsteady aerodynamics of moving control surfaces at the Airbus wing
[BMFT-FB-W-84-001] 19 p2968 N84-28811

EUROPEAN COMMUNICATIONS SATELLITE
The Apollo concept: Electronic document delivery by satellite
[ESA-SP-1048] 09 p1405 N84-19179
A transportable satellite Earth station
[BBC-RD-1984/8] 22 p3571 N84-32614

EUROPEAN INCOHERENT SCATTER RADAR
U EISCAT RADAR SYSTEM (EUROPE)

EUROPEAN LARGE TELECOMM SATELLITE
U L-SAT

EUROPEAN RETRIEVABLE CARRIER
U EURECA (ESA)

EUROPEAN SPACE AGENCY
High cost, lack of interest, money for Spacelab launches 05 p0634 N84-14170
European Space Agency, ERS-1 program
07 p0990 N84-16419
Space Station needs, attributes and architectural options, volume 2, book 2, part 4: International reports
[NASA-CR-173319] 09 p1271 N84-18303
Components selection, procurement and control for ESA spacecraft and associated equipment
[ESA-PSS-01-60-ISSUE-1] 16 p2458 N84-25760
ESA preferred parts list
[ESA-PSS-01-603-ISSUE-1] 16 p2475 N84-25869
Catalog of ESA publications in 1983
[ESA-SP-105] 16 p2567 N84-26470
Second Ariane launch pad at Kourou, Belgian participation 17 p2640 N84-26889
ESA activities in the use of microwaves for the remote sensing of the Earth 17 p2712 N84-27264
Europe: Two decades in space. Recollections by some of the principal pioneers
[ESA-SP-1060] 18 p2946 N84-28680
Twenty years of European cooperation in space
18 p2946 N84-28681
Report presented by the European Space Agency to the 25th COSPAR meeting
[ESA-SP-1061] 19 p2979 N84-28885
Status of the ESA-Earthnet LANDSAT-4 TM ground processing chain 20 p3210 N84-30391
A description of the ground segment of CNES, ESA, and TELESAT
[INPE-2984-NTE/211] 22 p3539 N84-32407
ESA and its programs: Present and future
24 p3903 N84-34716
The ESA technological research programs
24 p3903 N84-34717

EUROPEAN SPACE PROGRAMS
Development, production and testing of the primary structure for the Shuttle Pallet Satellite (SPAS-01)
[MBB-UR-580-82-OE] 05 p0642 N84-14227
Geodetic aspects of ESA projects, studies and investigations 07 p1030 N84-16677
Space research in Switzerland
08 p1107 N84-17200
Laboratory measurement of impact ionization
08 p1118 N84-17271
Energy distributions and yields of secondary ions and electrons emitted by GIOTTO during Halley encounter
08 p1118 N84-17272
A model of electrostatic charging and sheath structure of GIOTTO near Halley's comet
08 p1118 N84-17274
EURECA: An introduction to Europe's free-flying retrievable carrier
[ESA-BR-16] 09 p1272 N84-18308
Thermal design of the Giotto spacecraft
10 p1441 N84-19412
The thermal design of L-SAT large telecommunication satellite 10 p1441 N84-19414
Earthnet: The story of images
[ESA-BR-18] 16 p2509 N84-26102
POPSAT: A candidate satellite system for solid Earth applications and sciences. Preliminary feasibility study. Volume 2: Development program
[ESA-CR(P)-1882-VOL-2] 17 p2614 N84-26736
Report on the activities of the Space Science Department --- ESA
[ESA-SP-1062] 17 p2774 N84-27611
Europe: Two decades in space. Recollections by some of the principal pioneers
[ESA-SP-1060] 18 p2946 N84-28680
Twenty years of European cooperation in space
18 p2946 N84-28681

Report presented by the European Space Agency to the 25th COSPAR meeting
[ESA-SP-1061] 19 p2979 N84-28885
Space research in Belgium, 1982-1983
20 p3321 N84-31084
ESA and its programs: Present and future
24 p3903 N84-34716
The ESA technological research programs
24 p3903 N84-34717
Center of mass correction and its confidence for the Precise Orbital Positioning Satellite (Popsat)
24 p3906 N84-34738
The ultraviolet astronomy mission: Columbus
24 p3982 N84-35228

EUROPEAN SPACE RESEARCH ORGANIZATION
U EUROPEAN SPACE AGENCY

EUROPEAN SPACE RESEARCH ORGANIZATION SAT
U ESA SATELLITES

EUROPIUM
EPR spectra of rare earth s-state ions in glassy systems
[DE83-014686] 01 p0155 N84-11022

EUROPIUM COMPOUNDS
Magneto-optical studies of epitaxial EuS films and (EuS/SrS) layer systems
[JUEL-1910] 23 p3831 N84-34302

EUTECTIC ALLOYS
The redistribution of silicon during the spheroidizing annealing of iron
[BLL-M-35167-(5828.4)] 01 p0040 N84-10257
Metal-induced embrittlement of high purity 4140 steel by indium or indium-tin eutectic alloy
02 p0192 N84-11250
Predicting the base phase in the crystallization of eutectic alloys
[BLL-M-35347-(5828.4)] 04 p0497 N84-13262
Creep-fatigue interactions in advanced eutectic superalloys
[AD-A142872] 21 p3422 N84-31705
Electrochemical behavior of amorphous titanium-based alloy after various annealing conditions
24 p3875 N84-34555

EUTECTIC COMPOSITES
Superconductivity in filamentary eutectic composites
[DE84-005167] 10 p1453 N84-19489
Influences of directionally solidified techniques and hafnium content on a nickel base high temperature alloy
20 p3159 N84-30064
Creep-fatigue interactions in advanced eutectic superalloys
[AD-A142872] 21 p3422 N84-31705

EUTECTIC DIAGRAMS
U PHASE DIAGRAMS

EUTECTICS
NT EUTECTIC ALLOYS
Optimum microstructures for SPF (superplastic forming) using hydrovac
[AD-A130944] 01 p0044 N84-10280
Stress production and relief in the gold/silicon eutectic die-attach process
[DE83-015230] 03 p0369 N84-12400
Superconductivity in filamentary eutectic composites
[DE84-005167] 10 p1453 N84-19489
Anelysis and calculation of macrosegregation in a casting ingot, exhibits C and E
[NASA-CR-171030] 14 p2127 N84-23752
Development of media for dynamic latent heat storage for the low temperature range. Part 1: Thermal analysis of selected salt hydrate systems
[DFVLR-FB-84-03-PT-1] 15 p2362 N84-25170
Directional solidification of Al2-Cu-Al and Al3-Ni-Al eutectics during TEXUS rocket flight
[NASA-TM-77552] 24 p3883 N84-34602
The effects of impurities and additives on the growth of polycrystalline TNT
[MRL-R-916] 24 p3890 N84-34629

EUTROPHICATION
Computer simulation of phosphorus cycling in the sediment-water system of eutrophic lakes
[PB84-140573] 11 p1672 N84-20912
Ten-year forecasts of water quality in Lake Michigan using a deterministic eutrophication model
[DE84-011425] 21 p3437 N84-31804

EVACUATING (TRANSPORTATION)
A study on sound guidance for evacuation: Effect of megaphoned evacuation guidance in smoke
04 p0512 N84-13356
Emergency evacuation flow models
04 p0512 N84-13360
Escape and rescue model 04 p0512 N84-13361
Effective-width model for evacuation flow
04 p0512 N84-13362
Aermedical Support in Military Helicopter Operations
[AGARD-LS-134] 16 p2536 N84-26279
Aeromedical support of helicopter medical evacuation and rescue operations 16 p2537 N84-26289
Study on transport airplane unplanned water contact
[AD-A142092] 19 p2961 N84-28764

EVACUATING (VACUUM)
Design optimization studies for nonimaging concentrating solar collector tubes
[DE84-001368] 12 p1843 N84-22017

EVALUATION
NT TRAINING EVALUATION
Evaluating and quantifying user perception of pavement serviceability
[PB83-207308] 01 p0058 N84-10375
Effects of behavioral objectives and instructions on earning a category task
[AD-A130386] 01 p0116 N84-10750
A comparative evaluation of quantitative decision-making approaches
[PB83-214106] 01 p0159 N84-11050
Two types of values and their assessment by the collective interest
[DE83-012064] 03 p0460 N84-13031
Evaluation of Hamamatsu R1635 photomultiplier
[DE84-001252] 04 p0527 N84-13468
An evaluation of the broadband direction finding capabilities of array signal processing techniques
05 p0665 N84-14368
Efficient demand-driven evaluation (2)
[AD-A133879] 05 p0727 N84-14776
Radiac calibrators
[AD-A134611] 07 p1008 N84-16535
Computer Science and Technology: Proceedings of the 19th Meeting of the Computer Performance Evaluation Users Group (CPEUG)
[PB84-114529] 08 p1210 N84-17892
Services for the analysis and evaluation of information
[PB84-104504] 08 p1241 N84-18113
Photoacoustic Absorption Spectroscopy (PAS) measurements
[AD-A136591] 09 p1388 N84-19067
Quality metrics of digitally derived imagery and their relation to interpreter performance: 8
[AD-A137726] 11 p1660 N84-20830
The DARPA Internet project: M/A-COM LINKABIT eastern operation
[AD-A137661] 11 p1711 N84-21155
Evaluation of step directions in optimization algorithms
[DE84-006044] 11 p1716 N84-21194
Development of standard procedures for evaluating oxygen transfer devices
[PB84-147438] 12 p1846 N84-22032
Evaluation of 3-D graphics software: A case study
12 p1875 N84-22222
The CARFAX road traffic information system
[BBC-RD-1984/1] 13 p1975 N84-22818
Review of free electron laser theory and experiments
[DE84-007232] 13 p1996 N84-22954
Technical and economic indicators for industrial technological institutes 13 p2065 N84-23392
Evaluation of energy characteristics of bipedal walking and running by model analysis 17 p2649 N84-26941
To the wilderness and beyond: The application of a model for transformal change
[AD-P003249] 18 p2904 N84-28416
Testing and failure analysis to improve screening techniques for hermetically sealed metallized film capacitors for low energy applications
[NASA-CR-162071] 19 p3011 N84-29088
Salyut: Soviet steps toward permanent human presence in space
[PB84-181437] 20 p3135 N84-29905
Current research in parallel microprocessing systems at Los Alamos
[DE84-011342] 20 p3277 N84-30804
OTS (Office of Toxic Substances) Information Architecture Notebook
[PB84-188655] 21 p3520 N84-32301

EVANESCENCE
Raman and fluorescent scattering by molecules embedded in small particles
[DE84-001278] 04 p0597 N84-13937

EVAPORATION
NT EVAPOTRANSPIRATION
NT TRANSPIRATION
Transport assessment: Arid task. Model verification studies
[DE84-000121] 04 p0555 N84-13653
Stirling engines with controlled evaporation of a two-phase two-component working fluid
[DE83-017284] 06 p0853 N84-15560
Thermal and electric energy and desalination with a salt gradient solar pond
[DE84-900416] 08 p1181 N84-17691
Frontogenesis in a moist atmosphere
[PB84-104066] 08 p1193 N84-17779
The evaporation of iron and its alloying elements, copper and manganese, under reduced pressure using the levitation melting technique
[BLL-OA-TRANS-3117-(6196.3)]
09 p1281 N84-18367
Evaluation of single crystal LaB6 cathodes for use in a high frequency backward wave oscillator tube
[NASA-CR-173343] 10 p1485 N84-19709
Frontogenesis in a moist atmosphere
10 p1542 N84-20106
Vaporization of synthetic fuels
[DE84-006556] 12 p1803 N84-21755
Climatic atlas of Texas
[PB84-162908] 14 p2182 N84-24074
A droplet evaporation rate controlled combustion model 15 p2293 N84-24761
D-19 evaluating the height of tropospheric conduction of evaporation 15 p2325 N84-24962
Changes of phase and waves on depressurization of liquids with high specific heat
[MPIS-MITT-77] 15 p2332 N84-25003
Preparation of thin amorphous silicon films for thin film solar cells
[BMFT-FB-T-84-018] 16 p2518 N84-26166
Change in surface of molybdenum trioxide during its evaporation in an inert atmosphere
[BLL-M-35552-(5828.4)] 17 p2621 N84-26773
Microcrystalline silicon growth for heterojunction solar cells
[NASA-CR-173751] 18 p2869 N84-28215
The evaporation and gaseous dispersion of large-scale releases of nitrogen tetroxide
[AD-A142079] 20 p3166 N84-30104
Holographic investigation of thermal nonequilibrium vapor generation
[DE84-011905] 21 p3406 N84-31607
A theoretical and experimental study of turbulent evaporating sprays
[NASA-CR-174760] 22 p3536 N84-32390
Heat transfer, fluid flow and element vaporization in laser welding
[DE84-011783] 22 p3605 N84-32839
Research on Instrumentation, Testing and Evaluation
[DE84-014859] 23 p3727 N84-33616
Development of a production method for hard dielectric coating systems
[BMFT-FB-T-84-116] 23 p3727 N84-33621
Estimating net rainfall, evaporation and water storage of a bare soil from sequential L-band emissivities
23 p3769 N84-33889
Report of the Meeting of Experts on the Design of a Pilot Atmospheric-Hydrological Experiment for the WCRP
[WCP-76] 23 p3801 N84-34100
Matched evaporation of alloys in a vacuum
24 p3873 N84-34543
Dynamic stress in elastic areas developing upon interaction of intensive heat fluxes with solid bodies
24 p3873 N84-34545

EVAPORATION RATE
Note on evaporation in capillaries
[AD-A132850] 05 p0650 N84-14275
Evaporation from a bare soil evaluated from a soil water transfer model using remotely sensed surface soil moisture data
[CRPE-NT-125] 13 p2006 N84-23016
Determination of evaporation rates of organic solvents by thin-film evaporometer
[DE84-012308] 21 p3360 N84-31313

EVAPORATIVE COOLING
NT FILM COOLING
Design and application of two stage evaporative cooling systems 11 p1640 N84-20720
Free cooling: A total HVAC design concept
11 p1640 N84-20723
Mass transfer and thermodynamic studies of evaporative freezing of water
[PB84-153501] 17 p2620 N84-26769
A numerical simulation of heat transfer in evaporative cooling towers
[DE84-901142] 21 p3402 N84-31580

EVAPORATORS
Thermal control system — removing waste heat from industrial process spacecraft
[NASA-CASE-GSC-12771-1] 05 p0678 N84-14461
Fluidized bed air-to-air heat pump evaporator evaluation
[AD-A133072] 05 p0681 N84-14479
Multi-leg heat pipe evaporator
[NASA-CASE-MSC-20812-1] 22 p3592 N84-32748

EVAPOROGRAPHY
A note on the temporal behavior of bucket hydrologies
12 p1858 N84-22103

EVAPOTRANSPIRATION
A note on the temporal behavior of bucket hydrologies
12 p1858 N84-22103

Time dependent land and vegetation canopy temperatures 12 p1858 N84-22104
Evaporation from a bare soil evaluated from a soil water transfer model using remotely sensed surface soil moisture data
[CRPE-NT-125] 13 p2006 N84-23016
Land-surface influences on weather and climate
[NASA-CR-173595] 16 p2529 N84-26234
Global hydrologic cycle 20 p3217 N84-30434

EVASIVE ACTIONS
Suboptimal missile evasion through a sensitivity analysis of proportional guidance to target evasion maneuvers
[AD-A136803] 10 p1428 N84-19336
Near-optimal finite solutions to the 3 and 4 step discrete evasion games
[AD-A136811] 10 p1574 N84-20314

EVECTION
U ORBIT PERTURBATION
U SOLAR GRAVITATION

EVENTS
NT CONSECUTIVE EVENTS
Periodicities in the occurrence of aurora as indicators of solar variability 03 p0470 N84-13093

EVOKED RESPONSE (PSYCHOPHYSIOLOGY)
Utility of the cortical evoked response as a measure of photographic image quality
[AD-A131679] 03 p0377 N84-12455
Neuromagnetic localization of two components of the transient visual evoked response to patterned stimulation
[AD-A132546] 05 p0712 N84-14667
Control device manipulative behavior, arousal and performance during a compensatory tracking task
[AD-A133921] 05 p0713 N84-14670
Evaluation of factors producing visual evoked response variability
[AD-A133917] 06 p0868 N84-15772
The application of a superconducting quantum interference device second-order gradiometer to measure visual evoked responses
[AD-A136407] 12 p1865 N84-22156
The VERRUN and VERNAL software systems for steady-state visual evoked response experimentation
[NASA-CR-172311] 16 p2539 N84-26298
Role of feedback in regulation of ideomotor movements 18 p2898 N84-28386
Transient evoked potential in a critical event detection task
[AD-A141335] 18 p2900 N84-28397

EVOLUTION (DEVELOPMENT)
NT BIOLOGICAL EVOLUTION
NT CHEMICAL EVOLUTION
NT GALACTIC EVOLUTION
NT LUNAR EVOLUTION
NT PLANETARY EVOLUTION
NT STELLAR EVOLUTION
NT STELLAR MASS ACCRETION
Dynamical evolution of substructure in molecular clouds 03 p0462 N84-13043
The chemical evolution of the coma of comet P/Stephan-Oterma 03 p0464 N84-13055
Optimal estimation with chaotic dynamics 07 p1060 N84-16874
Optimal inference with chaotic dynamics 07 p1060 N84-16875
Preliminary discussion on the origin of Lei-gong-mo (tektites)
[NASA-TM-77328] 07 p1091 N84-17095
Tectonic evolution of the Arctic continental margin in the Beaufort and Chukchi Seas: Evidence from seismic reflections 14 p2164 N84-23958
Evolution of interstellar grains 16 p2569 N84-26486
On supernovae as a source of interstellar dust: The current observational picture 16 p2569 N84-26488
Grain formation in the expanding gas flow around cool luminous stars 16 p2569 N84-26489
The 3 micron ice band 16 p2570 N84-26494
Experiments on chemical and physical evolution of interstellar grain mantles 18 p2948 N84-28693
Origin and evolution of the West Philippine Basin 21 p3439 N84-31820
The Lithosphere programme
[CSIR-TRANS-1724] 21 p3443 N84-31841
Evolution of solar magnetic flux 23 p3836 N84-34335

EVOLUTION (LIBERATION)
NT GAS EVOLUTION

EXACTNESS
U PRECISION

EXAMINATION
NT EYE EXAMINATIONS
Influence of exam stress on cardiac function of students differing in level of physical activity 15 p2378 N84-25268

EXCAVATION
NT TUNNELING (EXCAVATION)
Robotic technology applied to Army mobility systems
[AD-A134728] 08 p1216 N84-17933

EXCHANGING
NT CHARGE EXCHANGE
NT GAS EXCHANGE
NT ION EXCHANGING
New quality assessment procedure for exchange area cable transmission parameters 11 p1720 N84-21218
Rapid electrolyte exchange procedures for 22 AH nickel-cadmium celgard cells
[AD-A142004] 20 p3177 N84-30178
Global Biology Research Program: Biogeochemical Processes in Wetlands
[NASA-CP-2316] 20 p3256 N84-30665
Geographic distribution of wetland parameters: The foundation of a data base 20 p3256 N84-30667

EXCIMER LASERS
Laser chromatography (gaseous electrophoresis) of chemical agents
[AD-A130948] 01 p0087 N84-10565
Advanced-laser development for isotope separation
[DE83-016151] 02 p0227 N84-11488
Theoretical studies of oxygen-iodine laser mechanisms and new laser concepts
[AD-A132374] 04 p0540 N84-13550
Energetics and collision dynamics of electronic transition lasers
[AD-A135894] 09 p1322 N84-18639
Pulsed generation of singlet delta oxygen (O2(1 delta)) via ozone photolysis
[AD-A138195] 12 p1792 N84-21684
Plasma-initiated laser deposition of polycrystalline and monocrystalline silicon films
[DE84-005527] 13 p1996 N84-22953
The chemistry of nitrogen compounds in combustion processes
[AD-A139539] 14 p2123 N84-23723
Inductively stabilized, long pulse duration transverse discharge apparatus
[DE84-011301] 20 p3193 N84-30281
Inductively stabilized excimer lasers
[DE84-011371] 20 p3194 N84-30284
Efficient forward conversion in a Raman generator
[DE84-007466] 20 p3194 N84-30285
Optical coating materials for the ultraviolet: Selection and characterization
[DE84-011504] 21 p3410 N84-31629
Evaluation of bidirectionally conducting thyratrons for pulsed excimer lasers
[DE84-013890] 22 p3602 N84-32818
East Europe report: Scientific affairs
[JPRS-ESA-84-007] 23 p3728 N84-33628
Excimer laser annealing to fabricate low cost solar cells
[NASA-CR-173938] 23 p3788 N84-34027

EXCITATION
NT ACOUSTIC EXCITATION
NT ATOMIC EXCITATIONS
NT HARMONIC EXCITATION
NT MOLECULAR EXCITATION
NT SELF EXCITATION
NT WAVE EXCITATION
Nuclear magnetic resonance gyroscope
[AD-A130102] 01 p0083 N84-10539
Mechanism switching and trapping of Triplet-Triplet energy transfer in an orientationally disordered molecular solid
[AD-A130660] 01 p0142 N84-10931
Forbidden line radiation cooling of high altitude plasmas
[AD-A131266] 01 p0149 N84-10979
Dielectronic recombination: An introduction
[DE83-015738] 02 p0296 N84-11942
Excited-state processes of relevance to photoelectrochemistry
[AD-A131300] 02 p0298 N84-11957
Unipolar machine with superconductive excitation winding
[AD-A131820] 03 p0366 N84-12383
Experiments to study the feasibility of making an X-ray laser at the Novette laser facility
[DE83-015615] 03 p0380 N84-12476
RF conditioned dc discharges for excitation of rare gas halide lasers
[DE83-016537] 03 p0381 N84-12479
Absolute collisional excitation cross section measurements using crossed molecular beams
[AD-A132038] 03 p0432 N84-12830
Study of excited state energy transfer processes
[AD-A131777] 03 p0433 N84-12837
Fields and currents and charges on obstacles in a parallel-plate simulator at selected frequencies and with pulse excitation
[AD-A132406] 04 p0520 N84-13418
Laser-induced fluorescence line narrowing in atomic vapors
[DE83-018216] 04 p0541 N84-13558
Liouvillian Green's-function theory of spectral line shape
[AD-A132467] 04 p0589 N84-13894
Double beta decay: Recent developments and projections
[DE84-000476] 04 p0598 N84-13944
Excitation frequency dependence of conductivity of electrolytic solutions
[AD-A132762] 05 p0650 N84-14272
Rotationally symmetric arrays of apertures on conducting spherical surfaces 05 p0673 N84-14419
Collisional excitation and radiation of atoms and molecules
[AD-A134093] 05 p0743 N84-14881
Theoretical studies in molecular fragmentation: Processes, energetics and diagnostics
[AD-A134008] 05 p0743 N84-14884
Localized hole effects in inner-shell excitation
[DE84-001401] 05 p0755 N84-14956
Multishaker modal testing
[NASA-CR-170952] 06 p0847 N84-15521
A NASTRAN DMAP procedure for calculation of base excitation modal participation factors 06 p0659 N84-15599
Simultaneous electron capture and excitation in ion-atom collisions
[DE83-005799] 06 p0910 N84-15907
Average vibrational energy transfer during a single collision of excited molecules with heat bath molecules
[AD-A133391] 06 p0915 N84-15949
State-to-state unimolecular reaction dynamics
[DE84-003009] 06 p0916 N84-15952
Giant dipole resonances built on excited states
[DE84-001549] 06 p0916 N84-15954
Photoenhancement of gas-solid reactions by surface excitation — ultraviolet irradiation
[DE84-003106] 07 p0972 N84-16299
Propagation of sound through a gas with an over-population of excited vibrational states
[AD-A134181] 07 p1070 N84-16950
Optical excitation of trapping states in Fe doped InP
[AD-A134183] 07 p1080 N84-17019
Photoluminescence excitation of the 1.441-eV cation antisite emission in p-type GaAs
[AD-A134332] 07 p1080 N84-17021
Theory of elementary excitations in intermediate valence materials
[DE84-003705] 07 p1083 N84-17044
Excited state kinetics of mercury halides and mixtures with N2 and Xe
[AD-A135432] 08 p1124 N84-17310
Elementary excitations in semiconductor superlattices structures 08 p1234 N84-18065
Radiative collisional laser feasibility demonstration
[AD-A135793] 09 p1322 N84-18640
Dual corelated random excitation technique for modal testing
[NAL-TR-762] 09 p1372 N84-18962
The role of phonons in the excitation and relaxation of adspecies
[AD-A137066] 10 p1455 N84-19504
The Shock and Vibration Digest, volume 15, no. 11
[AD-A137065] 10 p1507 N84-19858
Dynamic behaviour of a satellite antenna structure in random vibration environment 10 p1512 N84-19900
Aircraft ground vibration test instrumentation system
[AD-P002694] 11 p1660 N84-20829
Spectroscopic studies of the products of the reactions of excited noble-gas atoms
[AD-A137750] 11 p1730 N84-21284
Low energy ion-neutral collisions
[DE84-005392] 11 p1730 N84-21287
Evaluation of excitation cross sections by plasma spectroscopy 11 p1735 N84-21315
Mean excitation energies for stopping powers in various materials using local plasma oscillator strengths
[NASA-TP-2271] 11 p1760 N84-21485
Laser generation of ultrasound
[AD-A138483] 12 p1821 N84-21870
Optical nonlinearity and bistability due to the biexciton two-photon resonance in CuCl 14 p2239 N84-24441
Mechanisms of photochemical reactions of transition metal complexes: Excited state electron transfer and organometallic photochemistry
[AD-A140006] 15 p2287 N84-24722
Simulation of shock-induced energy flux in molecular solids, revision 1
[DE84-008331] 15 p2304 N84-24827
Pattern deformation of scalar antenna arrays due to near field backscatter
[LFD-210] 15 p2318 N84-24913

Photogalvanic cells driven by electron transfer quenching of excited singlet states
[DE84-009099] 15 p2330 N84-24991
Role of excitation frequency in discharges created by surface waves
[LP-205] 16 p2558 N84-26411
Excitation of spheroidal oscillations in viscoelastic Earth 17 p2702 N84-27214
Electron excitation of vibrational states of D2 and H2 and detection of excited states by laser-induced fluorescence
[AD-A141038] 18 p2846 N84-28070
Search for extended-lifetime optically excited laser media
[DE84-009795] 18 p2847 N84-28076
Study of intermediates from transition metal excited-state electron-transfer reactions
[DE84-008587] 18 p2942 N84-28657
Inversion of spectral lineshapes to yield collisional rate constants
[AD-A142661] 20 p3149 N84-29994
Kinetic processes in high pressure gases. Excited state collisions
[AD-A141927] 20 p3152 N84-30016
A numerical study of artificial electron aurora experiments
[ISAS-611] 20 p3240 N84-30568
Excitation of quasi-static magnetic fields in axial structures 20 p3287 N84-30873
Introduction to neutron scattering by magnetic excitations
[DE84-008579] 20 p3293 N84-30904
Flapping-torsional response of helicopter rotor blades to turbulence excitation 21 p3327 N84-31110
Modal parameter estimation via shaker versus speaker excitation
[DE84-012897] 21 p3345 N84-31223
Soft X-ray laser experiments at Norvette Laser Facility
[DE84-012594] 21 p3410 N84-31627
The response of nonlinear structures to random excitation 21 p3418 N84-31678
A theoretical study of the energetics and dynamics of high energy inelastic collision processes
[AD-A142799] 21 p3497 N84-32163
Beam cavity coupling impedance
[DE84-014064] 22 p3578 N84-32662
Measurement of the transverse mode excitation in the stimulated emission of the ACO free electron laser
[AD-A143449] 22 p3601 N84-32808
Combustion chemistry of vibrationally excited oxygen
[AD-A143791] 23 p3714 N84-33540
Photodissociation of H2O at 15 nm: State distribution and spatial orientation of the OH (x2pi) decay products
[MPIS-5/1984] 23 p3715 N84-33552
Interaction of high intensity subnanosecond CO2 laser pulses with molecules
[AD-A143654] 23 p3754 N84-33795
Properties of the deep scattering layer analyzed in terms of bioluminescent behavior of its components
[AD-A143849] 23 p3803 N84-34113

EXCITED STATES
U EXCITATION

EXCITONS
Pressure quenched excitonic solids
[AD-A133817] 05 p0753 N84-14940
Properties of 3-dimensional energetic solids and molecular crystals
[AD-A137927] 11 p1744 N84-21382
Theory of resonance-enhanced optical nonlinearities in semiconductors 14 p2234 N84-24407
Room temperature optical nonlinearities in GaAs multiple quantum wells 14 p2235 N84-24408
Quantum theory of optical excitonic bistability 14 p2237 N84-24427
Low power optical bistability near bound excitons in cadmium sulfide 14 p2241 N84-24451
Optical bistability in CuCl 14 p2241 N84-24456
Theory of the electronic structure and optical properties of organic solids: Exciton effects
[AD-A142544] 20 p3149 N84-29993
Nature of polarized vibronic sidebands of biexciton absorption in Alpha-oxygen 20 p3289 N84-30884
Influence of exciton movement in magnetic field on luminescence. Indirect forbidden transitions in Ge 21 p3485 N84-32083
Zeeman studies of shallow donors and excitons in quantum wells
[AD-A144487] 24 p3967 N84-35121

EXECUTIVE AIRCRAFT
U GENERAL AVIATION AIRCRAFT
U PASSENGER AIRCRAFT

EXERCISE
U PHYSICAL EXERCISE

EXERCISE PHYSIOLOGY
The energy cost and heart rate response of trained and untrained subjects walking and running in shoes and boots
[AD-A131420] 01 p0113 N84-10735
Ozone toxicity effects consequent to prolonged, high intensity exercise
[PB83-237368] 02 p0267 N84-11755
A laboratory comparison of portable cooling systems for workers exposed to two levels of heat stress
[AD-A131848] 03 p0372 N84-12423
Effects of pulsed microwaves at 1.28 and 5.62 GHz on Rhesus monkeys (Macaca mulatta) performing an exercise task at three levels of work
[AD-A132057] 03 p0413 N84-12704
A restraint chair with rowing-like movement for exposing exercising nonhuman primates to microwave irradiation
[AD-A132047] 03 p0413 N84-12705
Aerobic fitness and the hypohydration response to exercise-heat stress
[AD-A132263] 05 p0713 N84-14689
Development and assessment of the Monark cycle ergometer for anaerobic muscular exercise
[AD-A133173] 06 p0847 N84-15523
Differentiated ratings of perceived exertion and selected physiological responses during prolonged upper and lower body exercise
[AD-A134086] 06 p0887 N84-15769
Experiments on factors that influence muscular function in man
[AD-A133926] 06 p0888 N84-15771
Proceedings of the 3rd Tripartite Conference on Submarine Medicine: France, United Kingdom and the United States
[AD-A133150] 06 p0889 N84-15777
Metabolic disturbances in man in an environment with low ammonia level and their correction by graded physical exercise 07 p1045 N84-16780
Overuse injuries of the lower extremities associated with marching, jogging and running. A review
[AD-A134672] 08 p1200 N84-17824
Physiological responses to prolonged upper body exercise
[AD-A134811] 08 p1200 N84-17826
Physiological, biomechanical, and medical aspects of lifting and repetitive lifting: A review
[AD-A136689] 10 p1547 N84-20140
Heat exchange during upper and lower body exercise
[AD-A136015] 10 p1548 N84-20146
Exercise in the heat. Effects of saline or bicarbonate infusion
[AD-A137194] 11 p1696 N84-21061
Sustained physical activity in diverse situations: Metabolic and hormone data 11 p1698 N84-21077
Sustained military operations with particular reference to prolonged exercise 11 p1699 N84-21081
Non-invasive methods of cardiovascular exploration in aerospace medicine
[AGARD-AG-277(E)] 11 p1699 N84-21082
The exercise electrocardiogram 11 p1699 N84-21085
Cardiovascular and respiratory responses to muscular activity during immersion in water at different temperatures
[AD-A138894] 14 p2185 N84-24094
Influence of exam stress on cardiac function of students differing in level of physical activity 15 p2378 N84-25268
Influence of hydration level and body fluids on exercise performance in the heat
[AD-A139284] 15 p2380 N84-25281
Skeletal muscle metabolism of sea-level natives following short-term high-altitude residence
[AD-A139323] 15 p2380 N84-25284
Effects of short-term heat adaptation on certain indicators of physical capacity for work 18 p2897 N84-28380
Physical performance tests as predictors of task performance
[AD-P003257] 18 p2905 N84-28424
Maximal power outputs during the Wingate anaerobic test
[AD-A141374] 19 p3065 N84-29444
Influence of heat stress and acclimation on maximal aerobic power
[AD-A142329] 19 p3066 N84-29453
Upper body exercise performance: Comparison between women and men
[AD-A142330] 19 p3066 N84-29454
Exchange of gases and physical work capacity in natives of different geographic regions 20 p3254 N84-30656
Psychophysics of proprioceptive sensibility 21 p3456 N84-31933

EXERTION
U PHYSICAL WORK

EXHAUST DIFFUSERS
Design and testing of scaled ejector-diffusers for jet engine test facility applications
[AD-A136745] 10 p1432 N84-19364
Operational performance characteristics of a multiply-shrouded, angled-diffuser stack gas eductor in turbulent cross-flow
[AD-A139953] 15 p2343 N84-25066

EXHAUST EMISSION
Turbine engine exhaust hydrocarbon analysis, tasks 1 and 2
[AD-A131522] 01 p0012 N84-10074
The use of fuel additives to control plume opacity of turbine engine test cells
[AD-A130777] 01 p0053 N84-10339
Evaluation of motor vehicle and other combustion emissions using short-term genetic bioassays
[PB83-233270] 01 p0112 N84-10731
Recent advances in EPA's (Environmental Prog monitoring and methods development research
[PB83-231209] 01 p0115 N84-10743
Controlling emissions from light-duty motor vehicles at high elevations. A report to Congress
[PB83-204883] 01 p0164 N84-11074
Low mileage catalyst evaluation with a methanol-fueled Rabbit
[PB83-241620] 02 p0230 N84-11506
The development and implementation of techniques to determine the concentrations of environmental pollutants arising from energy production
[DE83-015386] 02 p0244 N84-11599
A study of the relationship between exhaust emissions and fuel economy
[PB83-235564] 03 p0385 N84-12506
Humidity measurement comparison tests: Dew point hygrometer versus wet bulb psychrometer
[PB83-237487] 04 p0539 N84-13546
The effects of relaxing automobile emission standards: A generic analysis and an urban case study
[DE84-000193] 04 p0560 N84-13693
Performance specifications for continuous monitoring of total reduced sulfur emissions (proposed July 20, 1981, 46 FR 37287), summary of comments and responses
[PB83-251009] 04 p0561 N84-13696
Clean catalytic combustor program
[NASA-CR-168323] 06 p0789 N84-15151
Apparatus and method for destructive removal of particles contained in flowing fluid
[NASA-CASE-NPO-15426-1] 08 p1161 N84-17555
An analysis of carbon monoxide emissions as a function of ambient temperature and vehicle parameters
[PB84-103829] 08 p1167 N84-17599
Exhaust emissions from a diesel engine
[PB84-122910] 08 p1184 N84-17713
Effects of diesel vehicles on visibility in California
[PB84-122167] 08 p1184 N84-17714
Heavy-duty diesel emissions as a function of alternate fuels
[PB84-120716] 09 p1291 N84-18426
Airborne measurements of launch vehicle effluent of STS-2 launch on November 12, 1981 at Cape Canaveral, Florida
[NASA-TP-2260] 09 p1342 N84-18764
Laboratory investigation of the fate of diesel emissions in the atmosphere
[PB84-118496] 09 p1343 N84-18772
Emission-proof valves — for chemical plants
[BMFT-FB-HA-83-028] 10 p1503 N84-19822
Aircraft generation equipment emissions estimator (AGEEE)
[AD-A136829] 10 p1532 N84-20031
Laboratory evaluation of novel particulate control concepts for jet engine test cells
[AD-A137641] 11 p1620 N84-20603
Comprehensive assessment of the specific compounds present in combustion processes. Volume 1: Pilot study of combustion emissions variability
[PB84-140870] 11 p1630 N84-20665
Proceedings of the 5th Workshop on Catalytic Combustion
[PB84-145580] 12 p1794 N84-21703
Experimental investigation of the low NO/sub x vortex airblast annular combustor
[NASA-TM-83615] 13 p1932 N84-22567
Emissions variability and traversing on production RB211 engines
[PNR-90176] 13 p1933 N84-22573
The design and development of a low emissions Transply combustor for the civil Spey engine
[PNR-90198] 13 p1934 N84-22582
Impact assessment of reducing gasoline volatility
[PB84-152024] 14 p2133 N84-23781
The design and development of a low emissions transply combustor for the civil Spey engine 15 p2292 N84-24755

Evaluation of dissociated and steam-reformed methanol as automotive engine fuels
[NASA-CR-168242] 18 p2821 N84-27909
Carbon dioxide emissions from fossil fuels: A procedure for estimation and results for 1950 - 1981
[DOE/NBB-0036] 19 p3052 N84-29365
Utilization of SRC-2 fuel in an insulated diesel engine
[DE84-004386] 20 p3167 N84-30111
Anti-tampering and anti-misfueling programs to reduce in-use emissions from motor vehicles
[PB84-185222] 20 p3238 N84-30559
Locating and estimating air emissions from sources of acrylonitrile
[PB84-200609] 22 p3619 N84-32934
Computer simulation of the heavy-duty turbo-compounded diesel cycle for studies of engine efficiency and performance
[NASA-CR-174755] 22 p3676 N84-33306
Baseline performance and emissions data for a single-cylinder, direct-injected diesel engine
[NASA-TM-86873] 23 p3836 N84-34330

EXHAUST FLOW SIMULATION
NT ATMOSPHERIC ENTRY SIMULATION
Coupling between velocity oscillations and solid propellant combustion 13 p1944 N84-22643
Fluid-dynamically coupled solid propellant combustion instability - cold flow simulation 13 p1945 N84-22644
Effect of oscillations upon velocity distributions in simulated solid propellant flow environments 13 p1945 N84-22646

EXHAUST GASES
NT FLUE GASES
The use of fuel additives to control plume opacity of turbine engine test cells
[AD-A130777] 01 p0053 N84-10339
Infrared characteristics of gas plumes
[AD-A131796] 03 p0349 N84-12269
Air monitoring techniques for space shuttle launches Vandenberg Air Force Base
[AD-A132956] 05 p0700 N84-14593
STS-5 (Space Transport System-5) fish kill, Kennedy Space Center, Florida
[AD-A132958] 05 p0700 N84-14595
Dynamic gas temperature measurement system, volume 1
[NASA-CR-168267-VOL-1] 07 p1007 N84-16529
Cycle of waste heat energy transformation — industrial waste heat
[BMFT-FB-T-83-173] 07 p1026 N84-16652
Characteristics of a four nozzle, slotted mixing stack with slanted shroud, gas eductor system
[AD-A134794] 08 p1159 N84-17547
Collision widths of CO lines broadened by water vapor at elevated temperatures
[AD-A136121] 09 p1323 N84-18644
Environmental monitoring instrumentation and monitoring techniques for space shuttle launches
[AD-A136594] 09 p1342 N84-18766
Preliminary performance estimates and value analyses for binary geothermal power plants using ammonia-water mixtures as working fluids
[DE84-006124] 11 p1674 N84-20921
A study of personal exposure to carbon monoxide in Denver, Colorado
[PB84-146125] 12 p1866 N84-22161
Heat Transfer Coefficient in Containments (HTCC): A heat transfer model for gas-vapor mixtures
[BMI-1983-022] 16 p2485 N84-25939
Effect of shroud geometry on the effectiveness of a short mixing stack gas eductor model
[AD-A132173] 18 p2836 N84-28004
Problem definition study on emission by-product hazards from diesel engines for confined space Army workplaces
[AD-A141377] 19 p3052 N84-29367
Wall quench and flammability limit effects on exhaust hydrocarbon emission
[DE84-009754] 21 p3359 N84-31307
Deposition of Na2SO4 from salt-seeded combustion gases of a high velocity burner rig
[NASA-TM-83751] 21 p3398 N84-31558
Using gas-turbine power stations with aircraft engines for power-and-heat generation
[AD-A142084] 21 p3434 N84-31786
Studies in atmospheric chemistry. Part 1: Primary peroxides from hydrocarbons. Part 2: elemental analysis using nuclear reactions
[DE84-012246] 21 p3445 N84-31857
Advancement of developmental technology for pulse combustion applications
[PB84-215268] 22 p3564 N84-32576
Exploratory testing of the MBB 10 N bipropellant engine. Volume 2: Preliminary exhaust plume investigations
[MBB-UR-561-82-VOL-2] 23 p3702 N84-33464
The high altitude pollution program (1976 - 1982)
[AD-A144390] 24 p3917 N84-34800

EXHAUST JETS
U EXHAUST GASES

EXHAUST NOZZLES
NT CONVERGENT-DIVERGENT NOZZLES
NT PLUG NOZZLES
Inverted velocity profile semi-annular nozzle jet exhaust noise experiments
[NASA-TM-83525] 04 p0595 N84-13924
Apparatus and method for jet noise suppression
[NASA-CASE-LAR-11903-2] 05 p0742 N84-14873
Fluid shielding of high-velocity jet noise
[NASA-TP-2259] 06 p0907 N84-15894
Design and testing of scaled ejector-diffusers for jet engine test facility applications
[AD-A136745] 10 p1432 N84-19364
Low frequency noise in a quiet, clean, general aviation turbofan engine
[NASA-TM-83520] 10 p1575 N84-20320
The 14th JANNAF Plume Technology Meeting, volume 1
[AD-A139654] 13 p1941 N84-22619
CONTAM 3 plus improved CONTAM 3 usability 13 p1941 N84-22622
Operational update to the RCS flow field of the space shuttle orbiter 13 p1942 N84-22626
Aircraft exhaust plume signature predictions for non-axisymmetric multiple engine installations 13 p1942 N84-22627
An investigation of experimental techniques for obtaining particulate behavior in metallized solid propellant combustion
[AD-A141044] 18 p2808 N84-27826
Velocity and temperature characteristics of two-stream, coplanar jet exhaust plumes
[NASA-TM-83730] 19 p2965 N84-28790
User's guide to the NOZL3D and NOZLIC computer programs
[NASA-CR-159173] 19 p3020 N84-29150
Investigation of parameters influencing the deflection of a thick wall jet by a thin wall jet coflowing over a rounded corner
[AD-A142773] 21 p3325 N84-31099
Axisymmetric thrust augmenting ejector with discrete primary air slot nozzles
[AD-D011129] 22 p3536 N84-32386
Thrust Reverser/Exhaust nozzle assembly for a gas turbine engine
[AD-D011101] 22 p3537 N84-32392

EXHAUST SYSTEMS
Use of the one-dimensional theory of the filament of flow for the interpretation and synthesis of mufflers in exhaust pipes of internal combustion engines
[REPT-81.4] 03 p0383 N84-12494
Compressed air exhaust silencers, summary
[CETIM-11-H-275] 21 p3414 N84-31650

EXHAUST VELOCITY
Investigation of a pulsed electrothermal thruster
[NASA-CR-168266] 03 p0343 N84-12227
Particle sizing in a fuel-rich ramjet combustor
[AD-A135632] 09 p1257 N84-18204

EXISTENCE
Stable equilibria in a scalar parabolic equation with variable diffusion
[AD-A131221] 01 p0134 N84-10877
Convex integration of non-linear systems of partial differential equations 14 p2210 N84-24271
The well-posedness of the Kuramoto-Sivashinsky equation
[NASA-CR-172431] 22 p3637 N84-33053

EXISTENCE THEOREMS
Local and global existence and behavior for t tends to infinity Navier-Stokes equations
[CTH-MATH-1984-08] 23 p3818 N84-34214

EXITS (DOORS)
U DOORS

EXOBIOLOGY
USSR report: Space Biology and Aerospace Medicine, volume 17, no. 5, September - October 1983
[JPRS-84655] 02 p0259 N84-11693
Programmatic comments 02 p0263 N84-11732
Aerospace Medicine and Biology: A continuing bibliography with indexes (supplement 250)
[NASA-SP-7011(250)] 03 p0415 N84-12712
NASA space biology accomplishments, 1982
[NASA-TM-86244] 04 p0488 N84-13206
Aerospace Medicine and Biology: A continuing bibliography with indexes (supplement 251)
[NASA-SP-7011(251)] 04 p0572 N84-13767
Aerospace medicine and biology: A continuing bibliography with indexes (supplement 252)
[NASA-SP-7011(252)] 06 p0886 N84-15763
Comparative characteristics of erythron reactions to hypoxic hypoxia, immobilization and high-intensity stationary magnetic field 07 p1046 N84-16785
Aerospace Medicine and Biology: A continuing bibliography with indexes (supplement 253)
[NASA-SP-7011(253)] 07 p1047 N84-16790
A new dimension in space experimentation
[NASA-NF-140] 08 p1109 N84-17210
NASA Space Biology Program. Eighth annual symposium's program and abstracts
[NASA-CP-2299] 09 p1351 N84-18829
Physiological changes in fast and slow muscle with simulated weightlessness 09 p1354 N84-18850
Space Station medical sciences concepts
[NASA-TM-58255] 11 p1693 N84-21040
Aerospace Medicine and Biology: 1983 cumulative index
[NASA-SP-7011(254)] 11 p1693 N84-21043
Aerospace medicine and biology: A continuing bibliography with indexes
[NASA-SP-7011(256)] 11 p1693 N84-21044
Aerospace Medicine and Biology: A continuing bibliography with indexes, supplement 257
[NASA-SP-7011(257)] 12 p1864 N84-22146
USSR report: Space Biology and Aerospace Medicine, volume 18, no. 1, January - February 1984
[JPRS-USB-84-002] 12 p1864 N84-22149
Aerospace Medicine and Biology: A continuing bibliography with indexes (supplement 258)
[NASA-SP-7011(258)] 14 p2184 N84-24088
Space biology and medicine: Yesterday and today 19 p2976 N84-28865
Aerospace Medicine and Biology: A continuing bibliography with indexes (supplement 260)
[NASA-SP-7011(260)] 19 p3064 N84-29440
NASA space biology accomplishments, 1983-84
[NASA-TM-86654] 20 p3256 N84-30664
Aerospace Medicine and Biology: A continuing bibliography with indexes (supplement 261)
[NASA-SP-7011(261)] 20 p3259 N84-30683
Publications of the NASA space biology program for 1980 - 1984 — bibliographies
[NASA-TM-86857] 22 p3628 N84-32990
Aerospace Medicine and Biology: A continuing bibliography with indexes
[NASA-SP-7011(262)] 22 p3630 N84-33003
The search for Martian life begins, 1959 - 1965 24 p3990 N84-35251

EXOSAT SATELLITE
Thermal control of the EXOSAT European satellite 10 p1441 N84-19409

EXOSPHERE
A new model of the geomagnetic variation in the upper atmosphere
[AD-A135210] 08 p1187 N84-17733
A rapid estimation of near earth satellite lifetimes with quasi-dynamic atmospheric model with application to a proposed Brazilian satellite 19 p3119 N84-29823

EXOTHERMIC REACTIONS
Thermal control system — removing waste heat from industrial process spacecraft
[NASA-CASE-GSC-12771-1] 05 p0678 N84-14461
Low-cost single-crystal turbine blades, volume 1
[NASA-CR-168218] 06 p0805 N84-15247
Asymptotic condensed phase analysis of deflagrating monopropellants with subsurface exothermicity 13 p1946 N84-22656
Near Chapman-Jouget detonations
[AD-P002974] 14 p2201 N84-24210
Deactivation of higher vibrational levels of HF by F atoms
[AD-A140853] 17 p2673 N84-27034

EXPANDABLE STRUCTURES
NT BALLOONS
NT BELLOWS
NT HIGH ALTITUDE BALLOONS
NT INFLATABLE SPACECRAFT
NT INFLATABLE STRUCTURES
NT METEOROLOGICAL BALLOONS
NT MICROBALLOONS
Seamless collapsible fuel tanks
[AD-A131933] 03 p0383 N84-12496
Synchronously deployable truss structure
[NASA-CASE-LAR-13117-1] 07 o0964 N84-16250
Megamechanics research Consortium 14 p2244 N84-24477
Design and operation of a deployable truss structure 15 p2347 N84-25082
Protective telescoping shield for solar concentrator
[NASA-CASE-NPO-16236-1] 15 p2361 N84-25164
Technology for large space systems: A bibliography with indexes
[NASA-SP-7046(10)] 16 p2454 N84-25736
Innovative structures for space applications
[GAC-19-1563] 16 p2458 N84-25757
Development and fabrication of collapsible fuel storage drums for arctic use
[AD-A141207] 18 p2798 N84-27754

The manufacturing process and the cold deployment test of an extendible nozzle made of C-103 niobium alloy
[AD-A144524] 24 p3884 N84-34608

EXPANSION
NT GAS EXPANSION
NT KARHUNEN-LOEVE EXPANSION
NT PRANDTL-MEYER EXPANSION
NT SERIES EXPANSION
NT THERMAL EXPANSION

Computations of turbulent recirculating flows with fully coupled solution of momentum and continuity equations
[DE84-001529] 04 p0535 N84-13518
A study of accretion in compact sources: Disk precession and jet helicity 06 p0929 N84-16038
Splines and a three-body separable expansion for scattering problems
[CSIR-TWISK-291] 07 p1059 N84-16863
Swirl, expansion ratio and blockage effects on confined turbulent flow
[NASA-CR-175391] 10 p1491 N84-19746
Turbulence characteristics of an axisymmetric reacting flow 11 p1611 N84-20548
Effect of pressure on the mechanical properties of polymers, part 1
[DE84-006311] 13 p1965 N84-22765
Asymptotics and numerics
[AD-P002934] 14 p2196 N84-24174
Detection of expansion at large angle grain boundaries using electron diffraction
[DE84-007889] 15 p2414 N84-25496
Numerical and analytical studies of steady detonation waves with expansion losses
[AD-A142601] 20 p3184 N84-30232
Altering the volumetric expansion ratio of a Lysholm helical screw expander
[DE84-013695] 22 p3564 N84-32573
Empirical modeling of a Lysholm helical screw expander
[DE84-013694] 22 p3564 N84-32574

EXPANSION WAVES
U ELASTIC WAVES

EXPECTANCY HYPOTHESIS
Data and results of a laboratory investigation of microprocessor upset caused by simulated lightning-induced analog transients
[NASA-TM-85821] 17 p2733 N84-27376

EXPECTATION
Effects of confirmed and disconfirmed expectations: A naturally occuring experiment
[AD-A141857] 19 p3068 N84-29461

EXPEDITIONS
Hundred years later: September 1883 - September 1983; annotated bibliography of the first Dutch North Pole expedition 1882-1883
[KNMI-83-02] 05 p0696 N84-14571

EXPERIENCE
The role of relevant experience and intellectual ability in determining the performance of military leaders: A contingency model explanation
[AD-P003303] 18 p2909 N84-28448

EXPERIMENT DESIGN
NT FACTORIAL DESIGN
A collection of A-optimal designs for control-test treatment comparisons, part 1
[AD-A129322] 01 p0132 N84-10866
Low gravity experiment for studying a rotating fluid having a free surface
[NASA-CR-170923] 03 p0371 N84-12413
On smoke control experiments 04 p0514 N84-13379
Efficient model-based sequential designs for sensitivity experiments
[AD-A134573] 07 p1064 N84-16899
STEP experiment integration 08 p1109 N84-17215
Model mission study for laser synchronization of clocks
[SNIAS-221-CA/LP] 08 p1162 N84-17569
Design of experiments in simulation
[AD-A137229] 10 p1562 N84-20236
Measurement of spray combustion processes 11 p1609 N84-20530
Software quality measurement for distributed systems. Volume 3: Distributed computing systems. Impact on software quality
[AD-A137957] 11 p1708 N84-21130
Comparison of the dichotomous and polychotomous quantal response models
[AD-A137938] 11 p1715 N84-21185
Preliminary design of two Space Shuttle fluid physics experiments
[NASA-CR-174649] 14 p2114 N84-23667
Finite-difference fluid dynamics computer mathematical models for the design and interpretation of experiments for space flight — atmospheric general circulation experiment, convection in a float zone, and the Bridgman-Stockbarger crystal growing system
[NASA-TP-2323] 14 p2144 N84-23852
Experimental design: Review and comment
[AD-A139268] 14 p2218 N84-24309
Living and working in space. A history of Skylab
[NASA-SP-4208] 16 p2454 N84-25737
Planning an experiment for digital image processing 16 p2490 N84-25976
An experiment proposed and set up by the readers will be flying on board the Shuttle; these are the rules of the game; the experiments of others
[NASA-TM-77102] 17 p2612 N84-26718
GfW handbook: Irradiation test guidelines for radiation hardness of electronic components
[HMI-B-380] 17 p2664 N84-26994
Nuclear particle detection using a track-recording solid 18 p2800 N84-27769
Design and development of Shuttle Get-Away-Special experiment G-0074 — off-load capability for a full-tank propellant acquisition system 18 p2800 N84-27770
An investigation of the phototropic effect on seedling orientation in a microgravity environment: A student involvement project — radish germination 18 p2800 N84-27771
Laboratory discharge studies of a 6 V alkaline lantern-type battery Eveready Energizer no. 528, under various ambient temperatures (-15 deg C and + 22 deg C) and loads (30 omega and 60 omega) 18 p2800 N84-27772
Project Explorer: Get Away Special #007 — alloy solidification, seed germination, crystal growth, and radio transmission of payload data 18 p2800 N84-27773
G-38, 39 and 40: An artist's exploration of space — using the space environment to create orbiting sphere configurations 18 p2801 N84-27774
The G-002 JUFO-1 payload: Its objectives and results 18 p2801 N84-27776
Gwilym Jenkins: Experimental design and time series
[AD-A141506] 19 p3084 N84-29575
Test means and methods linked to experiments on systems — electromagnetic pulse effects
[SNIAS-841-422-110] 21 p3389 N84-31508
Soft X-ray laser experiments at Norvette Laser Facility
[DE84-012594] 21 p3410 N84-31627
A comparative study in the animal of the toxicity of the combustion products of diverse materials 22 p3632 N84-33015
Asymptotic relative efficiencies of the rank transformation procedure in randomized complete block designs
[DE84-010600] 22 p3649 N84-33134
Report of the Meeting of Experts on the Design of a Pilot Atmospheric-Hydrological Experiment for the WCRP
[WCP-76] 23 p3801 N84-34100
Use of primate model in weightlessness bone physiology: General problems 23 p3809 N84-34154
GFFC experiment progress 24 p3924 N84-34833
Proceedings of the 29th Conference on the Design of Experiments in Army Research, Development and Testing
[AD-A144261] 24 p3938 N84-34927
The design of a quantal response experiment: An empirical approach
[AD-P003843] 24 p3939 N84-34931

EXPERIMENTAL BREEDER REACTOR 2
Correlation of fracture toughness with tensile properties for irradiated 20% cold-worked 316 stainless steel
[DE84-003954] 08 p1135 N84-17379

EXPERIMENTATION
Bibliography of research reports and publications issued by the Toxic Hazards Division, 1957-1982
[AD-A133637] 05 p0713 N84-14672
Physics with LAMPF 2
[DE83-016338] 07 p1073 N84-16972
Appropriateness of the small-cage-reared rat as a model for the study of altered-activity effects 09 p1354 N84-18851
Dynamic applications of piezoelectric crystals. Part 3: Experimental studies 10 p1505 N84-19840
Report of the Meeting of Experts on the Design of a Pilot Atmospheric-Hydrological Experiment for the WCRP
[WCP-76] 23 p3801 N84-34100

EXPERT SYSTEMS
An overview of artificial intelligence and robotics. Volume 1: Artificial intelligence. Part B: Applications
[NASA-TM-85838] 01 p0128 N84-10834
An approach to expert systems for mechanical design
[AD-A131340] 02 p0272 N84-11777
CSRL (Conceptual Structures Representation Language): A language for expert systems diagonsis
[AD-A131403] 02 p0272 N84-11782
Expert systems: Matching techniques to tasks
[AD-A131385] 02 p0279 N84-11826
PLY: A system of plausibility inference with a probabilistic basis
[AD-A132537] 04 p0588 N84-13889
Mutual adaptiveness of man and machine in information acquisition tasks
[AD-A135449] 08 p1216 N84-17932
Search algorithms and their implementation
[AD-A135154] 08 p1219 N84-17953
Logic programming and knowledge base maintenance
[AD-A137062] 10 p1564 N84-20245
A data structure for VLSI synthesis and verification
[AD-A137880] 11 p1647 N84-20769
Distributed knowledge base systems for diagnosis and information retrieval
[AD-A137828] 11 p1750 N84-21421
Natural language processor as a universal front end to expert systems
[AD-A138455] 12 p1878 N84-22236
Integrated testing and maintenance technologies
[AD-A138587] 13 p1925 N84-22528
Research on cognitive collaboration between persons and computers
[AD-P002892] 13 p1980 N84-22853
A cost based acquisition planning model utilizing expert system concepts
[AD-P002783] 13 p2055 N84-23330
Expert systems for price analysis: A feasibility study
[AD-P002795] 13 p2057 N84-23341
Advanced Platform Systems Technology study. Volume 4: Technology advancement program plan
[NASA-CR-173524] 14 p2115 N84-23674
Experiments to correct a digital map data base using scene analysis
[AD-A139447] 14 p2248 N84-24499
GUIDON: A computer-aided instructional program
[AD-A139999] 15 p2383 N84-25293
An expert distributed robotics system with comprehension and learning abilities in the aircraft flight domain
[AD-A139826] 15 p2384 N84-25300
Strategic explanations for a diagnostic consultation system
[AD-A140014] 15 p2396 N84-25371
A representational basis for the development of a distributed expert system for Space Shuttle flight control
[NASA-TM-58258] 16 p2544 N84-26328
Is artificial intelligence possible?
[INPE-3007-PRE/453] 17 p2757 N84-27499
Report on the feasibility of designing expert systems for contract price analysis
[AD-A140854] 17 p2770 N84-27590
Towards a general scientific reasoning engine
[AD-A141283] 18 p2924 N84-28543
The design of an expert system for contract price analysis
[AD-A140927] 18 p2943 N84-28662
Strategic computing and survivability research
[AD-A141717] 19 p3081 N84-29548
Interaction of human cognitive models and computer-based models in supervisory control
[AD-A142677] 20 p3265 N84-30717
Computational aerodynamics and artificial intelligence
[NASA-TM-85994] 21 p3324 N84-31089
Interactive Automatic System (lasp): An expert system to help photointerpretation 23 p3779 N84-33961

EXPIRATION
Method of determining intensity of elimination of microorganisms from human upper respiratory tract 15 p2377 N84-25264

EXPIRED AIR
Method of determining intensity of elimination of microorganisms from human upper respiratory tract 15 p2377 N84-25264

EXPLODING CONDUCTOR CIRCUITS
U CIRCUITS
U EXPLODING WIRES

EXPLODING CONDUCTORS
U EXPLODING WIRES

EXPLODING WIRES
Optical emission of exploding-film and wire-initiated discharges
[DE83-014154] 02 p0223 N84-11466
Optically pumped ultraviolet and infrared lasers driven by exploding metal films and wires
[DE83-014169] 02 p0226 N84-11484
An experimental and numerical study of weak spherical N-waves produced by exploding wires
[UTIAS-TECH-NOTE-248] 11 p1651 N84-20779

EXPLORATION
NT LUNAR EXPLORATION
NT MINERAL EXPLORATION
NT OIL EXPLORATION
NT SPACE EXPLORATION
Migration of natural gas and reservoir formation in east lower Saxony
[BMFT-FB-T-83-153] 02 p0250 N84-11639
Some boundary integral equation methods and their application to seismic exploration
24 p3918 N84-34803

EXPLORER SATELLITES
NT APPLICATIONS EXPLORER SATELLITES
NT COSMIC BACKGROUND EXPLORER SATELLITE
NT DYNAMICS EXPLORER SATELLITES
NT DYNAMICS EXPLORER 1 SATELLITE
NT DYNAMICS EXPLORER 2 SATELLITE
NT INTERNATIONAL SUN EARTH EXPLORER 1
NT INTERNATIONAL SUN EARTH EXPLORER 2
NT INTERNATIONAL SUN EARTH EXPLORER 3
NT INTERNATIONAL SUN EARTH EXPLORERS
NT SOLAR MESOSPHERE EXPLORER
Data analysis and theoretical studies for atmospheric Explorer C, D and E
[NASA-CR-175121] 06 p0878 N84-15711
Thermally induced spin rate ripple on spacecraft with long radial appendages
[NASA-TM-85058] 07 p0964 N84-16249

EXPLOSIONS
NT AERIAL EXPLOSIONS
NT CHEMICAL EXPLOSIONS
NT GAS EXPLOSIONS
NT NUCLEAR EXPLOSIONS
NT UNDERGROUND EXPLOSIONS
NT UNDERWATER EXPLOSIONS
Evaluation of WES one-dimensional dynamic soil testing procedures
[AD-A130925] 01 p0057 N84-10371
A 2-MJ staged explosive generator
[DE83-013677] 01 p0072 N84-10474
Initial decay of flow properties of planar, cylindrical and spherical blast waves
[UTIAS-TN-244] 03 p0371 N84-12416
Strong acoustic wave action — on the atmosphere
05 p0636 N84-14186
Electrical-shock prevention. Volume 1: Protection of maintenance personnel
[PB84-102946] 08 p1206 N84-17865
Electrostatic safety with explosion suppressant foams
[AD-A137503] 10 p1424 N84-19314
Aircraft accident report. Western Helicopters, Inc., Bell-UH-1B, N87701, Valencia, California July 23, 1982
[PB84-910402] 11 p1603 N84-20502
Experiments on water/melt explosions, nature of products, and models of dispersal
13 p2081 N84-23483
The influence of cutouts on transient response of hemispherical shells
[AD-P002943] 14 p2197 N84-24183
Response of structural panels to air blast
15 p2316 N84-24902
Performance criteria guideline for three explosion protection methods of electrical equipment rated up to 15,000 volts AC
[NASA-TM-85528] 17 p2640 N84-26887
Order of functioning
[AD-A141851] 19 p3001 N84-29022
Explosion parameters of ferroalloy dusts
[BLL-M-35571-(5828.4)] 20 p3165 N84-30102
Some considerations on silicone oil in high-current and energy-disconnecting mechanisms
[DE84-011021] 20 p3180 N84-30203
Annual meeting of the Pyrotechnics and Explosives Applications Section on the American Defense Preparedness Association
[AD-A143157] 21 p3373 N84-31406

EXPLOSIVE DEVICES
NT BOMBS (ORDNANCE)
NT BOOSTERS (EXPLOSIVES)
NT DETONATORS
NT EXPLODING WIRES
NT INITIATORS (EXPLOSIVES)
NT PRIMERS (EXPLOSIVES)
NT SHAPED CHARGES
NT TORPEDOES
Simple ideal gas model of the Pavlovskii high-explosive opening switch
[DE83-016630] 02 p0215 N84-11411
Using an X-ray-sensitive vidicon and remote-control stage mechanism to obtain critical radiographic alignment of small explosive devices
[DE83-012846] 03 p0358 N84-12326
Radio-frequency detonation hazards: Multiple-transmission safety assessment of a detonator loop that may be resonant
[BBC-RD-1983/11] 05 p0666 N84-14380
Effect of fabrication techniques on consolidated charge burning 13 p1948 N84-22668
Discrete charge diagnostics on Pre-DIRECT COURSE
[AD-A139073] 13 p1990 N84-22919
Simplified thermal transient test for electro explosive devices
[AD-A132970] 18 p2844 N84-28060
Annual meeting of the Pyrotechnics and Explosives Applications Section on the American Defense Preparedness Association
[AD-A143157] 21 p3373 N84-31406

EXPLOSIVE FORMING
Densification of shock-treated aluminum nitride and aluminum oxide
[DE84-003251] 07 p0968 N84-16273
Shock compaction of molybdenum powder
[NASA-CR-173154] 08 p1133 N84-17369
Dynamic consolidation of ceramic powders: Practicalities, problems, and prospects
[DE84-003744] 08 p1138 N84-17404
Shock consolidation of powders: Theory and experiment
[DE84-007273] 13 p1961 N84-22741
Analysis of localized microstructural changes in dynamically consolidated metal powders
[DE84-006298] 20 p3154 N84-30026
Mechanical properties of a shock consolidated steel powder
[DE84-003573] 20 p3158 N84-30056
High performance Extrusion Cast Explosives (ECK)
[DE84-008244] 20 p3166 N84-30107
Investigation of shock activated sintering and shock wave consolidation of selected powder materials
[DE84-013074] 21 p3371 N84-31391

EXPLOSIVE GASES
U FLAMMABLE GASES

EXPLOSIVE WELDING
Explosive welding in the manufacture of titanium shells 24 p3876 N84-34562

EXPLOSIVES
NT CELLULOSE NITRATE
NT RDX
NT TATB
NT TRINITROTOLUENE
Design of a 20-MJ coaxial generator
[DE83-014152] 01 p0073 N84-10481
Numerical simulation of the velocity records from the SRI grout spheres experiment
[AD-A131267] 01 p0096 N84-10627
Synthesis and properties of trisubstituted trinitrobenzenes. TATB analogs
[AD-A131619] 02 p0203 N84-11322
Velocity Interferometer System for Any Reflector (VISAR): Studies of wave growth in granular explosives
[DE83-013772] 02 p0204 N84-11330
Old explosives facilities need love (safety analyses) too
[DE83-014447] 02 p0205 N84-11334
Experimental investigation of explosive-driven plasma-compression opening switches
[DE83-0124200] 02 p0214 N84-11399
Theoretical modeling of converging and diverging detonation waves in solid and gaseous explosives
[DE83-017300] 04 p0536 N84-13528
Characterization of initiation and detonation by Lagrange gage techniques
[DE84-002462] 07 p0981 N84-16357
Time resolved measurement and analysis of the response of confined explosives to heat, impact and penetration
[DE84-002781] 07 p0981 N84-16358
A computer study of detonation waves in dispersed powdered high explosives
[AD-A134226] 07 p1054 N84-16827
The MRL small scale gap test for the assessment of shock sensitivity of high explosives
[MRL-R-896] 08 p1139 N84-17408
Dynamic compaction of ceramic materials
[AD-A137257] 11 p1638 N84-20708
DOE explosives safety manual: Revision 1
[DE84-004295] 11 p1639 N84-20714
Status of ammonium nitrate in propellants and explosives 13 p1946 N84-22655
A numerical study of shock initiation of composition-b by high-speed impact of small steel projectiles
[AD-A139629] 15 p2303 N84-24821
H Division materials physics
[DE84-007789] 15 p2304 N84-24826
Study of Deflagration-to-Detonation Transition (DDT) in the granular explosive, CP
[DE84-009500] 15 p2305 N84-24828
New developments in cylinder testing
[DE84-002782] 15 p2337 N84-25033
Microexplosions in boreholes
[FOA-C-20523-E1] 15 p2406 N84-25445
Workshop on Dynamic Fracture held at Pasadena, California on 17-18 February 1983
[AD-A140194] 16 p2466 N84-25806
Viscoelastic effect on dynamic crack propagation in Homalite 100
[AD-P003115] 16 p2468 N84-25820
A thermal stability test for primary explosive stab sensitizers: Study of the thermal and hydrolytic stability of 1-picryl-5-nitrotetrazole
[MRL-R-918] 16 p2473 N84-25853
Multipath pyrotechnic relay: Conception with numerical simulations and experimental validation
[SNIAS-832-422-101] 16 p2474 N84-25855
Speeding up the help hydrodynamic code
[MRL-R-925] 16 p2543 N84-26321
Evaluation of surface storage facilities for explosives, blasting agents and other explosive materials
[PB84-168392] 17 p2639 N84-26886
United States Air Force Academy, Department of Chemistry research: AY 1982-83
[AD-A141015] 18 p2808 N84-27828
Synthesis of energetic materials
[AD-A141495] 19 p3001 N84-29021
Batch and continuous recrystallization of secondary explosives
[DE84-009735] 19 p3002 N84-29024
An explosive ordnance disposal protective suit
[AD-D011072] 19 p3071 N84-29483
High performance Extrusion Cast Explosives (ECK)
[DE84-008244] 20 p3166 N84-30107
3,5,5-trinitro-3-azaheptane-1,7-diol and a method of synthesis
[AD-D011132] 22 p3562 N84-32555
Detonation parameters for Australian high-explosives composition
[AD-A143655] 23 p3726 N84-33609
The structural chemistry of energetic compounds
[AD-A143955] 23 p3822 N84-34237
Structure and properties of amorphous powder material after explosive loading 24 p3870 N84-34526

EXPONENTIAL FUNCTIONS
NT LOGARITHMS
Asymptotic methods in reliability theory: A review
[AD-A130163] 01 p0092 N84-10600
Directionally efficient robust estimators of location via exponential embedding
[AD-A130525] 01 p0130 N84-10854
Accurate computation of divided differences of the exponential function
[AD-A130306] 01 p0132 N84-10865
Further examination of simulated percentage points
[AD-A130338] 01 p0136 N84-10893
Tests for exponentiality when origin and scale parameters are unknown
[AD-A131377] 02 p0284 N84-11864
Isotonic procedures for selecting populations better than a standard: Two-parameter exponential distributions
[AD-A135445] 08 p1223 N84-17985
A Bayesian explanation of an apparent failure rate paradox
[AD-A134748] 08 p1223 N84-17987
Big omega versus the wild functions
[MC-IW-239/83] 13 p2035 N84-23200
A note on mixed exponential approximations for GI/G/1 waiting times
[AD-A139534] 14 p2219 N84-24313
Contributions to the computation of the matrix exponential, revision
[AD-A140069] 15 p2398 N84-25392
L infinity stability of an exponentially decreasing solution of the problem Delta u + f(x,u) = o in r(n)
[AD-A141601] 19 p3085 N84-29582
Spectral and invertibility properties of band matrices
[AD-A142637] 20 p3281 N84-30831
Stabilization studies
[AD-A142644] 20 p3281 N84-30832
Computational Methods: 1984 JPM Specialist Session
[AD-A142923] 21 p3354 N84-31276
Exponential-fitted methods for integrating stiff systems of ordinary differential equations: Applications to homogeneous gas-phase chemical kinetics
21 p3355 N84-31279

EXPONENTS
On Waring's problem g (4) or = 20
03 p0425 N84-12781
Factorization algorithms of exponential order
08 p1224 N84-17994
Exponential calculus of microdifferential operators of infinite order, part 1 13 p2033 N84-23181
Bifurcation and multiplicity results for nonlinear elliptic problems involving critical sobolev exponents
[AD-A139332] 14 p2219 N84-24315

EXPORTS
U INTERNATIONAL TRADE

EXPOSURE
The design and operation of systems for inhalation exposure of animals
[DE83-015386] 01 p0112 N84-10727
The physiological effects of simultaneous exposures to heat and vibration
[NASA-TM-84400] 01 p0113 N84-10732
Recent advances in EPA's (Environmental Prog monitoring and methods development research
[PB83-231209] 01 p0115 N84-10743
Personal exposure to volatile organics and other compounds indoors and outdoors: The TEAM (Total Exposure Assessment Methodology) study
[PB83-231357] 01 p0115 N84-10744
Influence of nitrogen dioxide on xenobiotic metabolism in animals
[PB83-239723] 02 p0265 N84-11743
Effects of acute cold exposure on submaximal endurance performance
[AD-A132581] 05 p0712 N84-14665
Neurobehavioral effects of carbon monoxide (CO) exposure in humans protocol 1
[AD-A133691] 06 p0888 N84-15774
Exposure chamber for studies of pollutant gases and aerosols in human subjects: Design considerations
[DE84-001135] 06 p0890 N84-15785
Mechanical properties of types 304 and 316 stainless steel after long-term aging and exposure
[DE84-003325] 07 p0976 N84-16327
New trends in standardization of electromagnetic microwave radiation 07 p1044 N84-16767
Study of vibration resonance frequencies in rats 07 p1046 N84-16784
Development of power system measurements
[PB84-109891] 08 p1153 N84-17509
Review of the National Ambient Air Quality Standards for sulfur oxides: Assessment of scientific and technical information
[PB84-102920] 08 p1184 N84-17711
Rabbit neurobehavioral toxicity from aluminum
[PB84-103266] 08 p1198 N84-17809
Rationale for a Threshold Limit Value (TLV)R for JP-4/Jet B wide cut aviation turbine fuel
[AD-A134814] 08 p1201 N84-17827
Human exposure to atmospheric concentrations to selected chemicals, volume 1
[PB84-102540] 08 p1202 N84-17835
Short-term human respiratory effects of nitrogen dioxide: Determination of quantitative dose-response profiles. Phase 1: Exposure of healthy volunteers to 4 PPM NO/sub 2
[PB84-132299] 10 p1548 N84-20148
Cosmic ray exposure of SNC meteorites and constraints on their derivation from Mars 11 p1754 N84-21449
Cosmic ray exposure ages of iron meteorites, complex irradiation and the constancy of cosmic ray flux in the past 11 p1755 N84-21455
Industrial hygiene data for F-16 aircraft refueling inside closed aircraft shelters. Supplementary
[AD-A138364] 12 p1865 N84-22154
A study of personal exposure to carbon monoxide in Denver, Colorado
[PB84-146125] 12 p1866 N84-22161
Dose in critical body organs in low Earth orbit
[NASA-TM-85778] 12 p1867 N84-22169
Influence of extended exposure in space on mechanical properties of high-toughness graphite-epoxy composite material (A0019) 15 p2271 N84-24637
Land use planning for sources of nonionizing electromagnetic radiation
[PB84-156363] 17 p2771 N84-27594
Motor performance in irradiated rats as a function of radiation source, dose, and time since exposure
[AD-A141209] 18 p2894 N84-28363
Sampling report for the study of personal CO (carbon monoxide) exposure
[PB84-181957] 20 p3239 N84-30560
Effects of whole-body cold exposure on erythrocyte morphology 21 p3452 N84-31906
Visual function and the definition of thresholds for exposure to laser radiation 22 p3632 N84-33019

EXPRESSIONS (MATHEMATICS)
U FORMULAS (MATHEMATICS)

EXTENDED DURATION SPACE FLIGHT
U LONG DURATION SPACE FLIGHT

EXTENSOMETERS
Tensile testing apparatus
[NASA-CASE-LAR-13243-1] 11 p1656 N84-20804
An optical technique for assessing the long-term accuracy of lateral extensometers
[NPL-DMA(A)-78] 19 p3026 N84-29190

EXTERNAL STORE SEPARATION
Shuttle booster separation aerodynamics 01 p0019 N84-10123
Navy's advanced aircraft armament system program concept objectives 06 p0770 N84-15045
Aerodynamic characteristics of a Sparrow 3 missile model in the flow field of a generalized parent body at Mach 2.86
[NASA-TM-85713] 08 p1097 N84-17134
Recent developments in store separation and grid survey techniques using the ARA Two-Sting Rig 14 p2099 N84-23595
A self-contained captive trajectory system for a blowdown wind tunnel 14 p2099 N84-23596
The accelerated light model technique of store separation as developed and used at British Aerospace, Brough 14 p2099 N84-23597

EXTERNAL STORES
Influence of main design parameters on flutter behaviour for aircraft configurations with heavy concentrated masses 02 p0170 N84-11122
Fast flutter clearance by parameter variation 02 p0172 N84-11135
Computer generated pictorial stores management displays for fighter aircraft
[AD-A131412] 02 p0179 N84-11168
External stores interference 03 p0318 N84-12083
Preliminary airworthiness evaluation of the UH-60A configured with the External Stores Support System (ESSS)
[AD-A132964] 05 p0630 N84-14139
TAS: A Transonic Aircraft/Store flow field prediction code
[NASA-CR-3721] 06 p0781 N84-15114
Stores weight and inertia system update: Cable attachment redesign, flexible length parameter calibration, data sheet revision
[AD-A141087] 19 p2963 N84-28781
Active suppression of aeroelastic instabilities for forward swept wings
[AD-A141739] 19 p2964 N84-28783
MIL-STD-1760 development program
[AD-P003526] 21 p3330 N84-31130
Aircraft-store Electrical Interconnection System (AEIS) functional requirements
[AD-P003527] 21 p3330 N84-31131
Signal set standardization for the aircraft-store electrical interconnection system
[AD-P003528] 21 p3330 N84-31132
Consideration of MIL-STD-1760, aircraft/store electrical interface standard on stores management system architectures
[AD-P003529] 21 p3331 N84-31133
Aircraft multiplexing system architecture and stores compatibility
[AD-P003530] 21 p3331 N84-31134
Aircraft loading adapter for use with ordnance lift vehicle
[AD-D011147] 23 p3696 N84-33421
Determination of external store drag 24 p3847 N84-34397
Flight test techniques used for proof of structural integrity of Tornado when carrying external stores 24 p3849 N84-34413

EXTERNAL SURFACE CURRENTS
Spacecraft/plasma interactions and their influence on field and particle measurements — conferences
[ESA-SP-198] 08 p1115 N84-17253
Probe measurement of DC electric fields — SCATHA satellite charging 08 p1116 N84-17255
The potential of ISEE in different plasma environments 08 p1116 N84-17257
Methods for keeping a conductive spacecraft near the plasma potential 08 p1119 N84-17277
Proceedings of the Air Force Geophysics Laboratory Workshop on Natural Charging of Large Space Structures in Near Earth Polar Orbit
[AD-A134894] 16 p2521 N84-26185
Shuttle Orbiter charging in polar Earth orbit
[AD-P002116] 16 p2524 N84-26202
Potential barriers and multiple roots in spacecraft charging
[AD-P002117] 16 p2524 N84-26203
The threshold temperature effect in high-voltage spacecraft charging
[AD-P002120] 16 p2524 N84-26206
Polar code development
[AD-P002122] 16 p2524 N84-26208
Summary of experimental results
[AD-P002126] 16 p2525 N84-26212

EXTERNAL TANKS
Ascent air data system results from the space shuttle flight test program 01 p0020 N84-10125
High speed machining of space shuttle external tank liquid hydrogen barrel panel
[NASA-TM-82557] 05 p0662 N84-14352
Aeroelastic stability analysis of the light weight tank LH-2 cable tray
[LMSC/D059511] 05 p0692 N84-14543
Identification of new potential scientific and technology areas for DoD application. Summary of activities
[AD-A134372] 07 p1084 N84-17050
Space Shuttle ice suppression system validation, volume 2
[NASA-CR-171741] 08 p1114 N84-17245
Ice impact testing of space shuttle thermal protection system materials 10 p1509 N84-19880
A large-area gamma-ray imaging telescope system
[NASA-CR-175435] 11 p1620 N84-20604
Space Shuttle with rail system and aft thrust structure securing solid rocket boosters to external tank
[NASA-CASE-MFS-25653-1] 18 p2802 N84-27784

EXTERNALLY BLOWN FLAPS
YC-15 EBF (Externally-Blown Flap) STOL (Short Takeoff and Landing) airplane fuselage and interior noise environment
[AD-A131462] 02 p0178 N84-11184

EXTINCTION
NT INTERSTELLAR EXTINCTION
Optical extinction coefficients beneath marine stratus clouds. Comparison of coefficients calculated from observed aerosol spectra with coefficients specified by the Navy aerosol model
[AD-A132011] 03 p0410 N84-12685
Optical properties of the marine aerosol as predicted by a BASIC version of the Navy aerosol model
[AD-A132411] 04 p0604 N84-13986
Measurements of optical properties of particulates in an arid region
[AD-A132889] 05 p0709 N84-14644
Review of calculations of extinction for visible and infrared wavelengths in rain
[AD-A132659] 05 p0747 N84-14906
Comment on the extinct paradox
[NASA-TM-85113] 06 p0917 N84-15958
Determination of particle-size distribution by measuring the transmission of an aerosol in sedimentation
[AD-A133288] 06 p0918 N84-15962
Optical extinction theorem theory of optical multi-stability bifurcations and turbulence in the Fabry-Perot interferometer 14 p2239 N84-24442
Quenched Carbonaceous Composite (QCC): A likely candidate for interstellar grains 16 p2571 N84-26501
Variability of vertical distributions of sea water temperature and light extinction index in section across Mascarene Ridge 18 p2857 N84-28142
Sensitivity of a lidar inversion algorithm to parameters relating atmospheric backscatter and extinction
[AD-A141565] 19 p3054 N84-29378

EXTINGUISHERS
U FIRE EXTINGUISHERS

EXTINGUISHING
Fire modeling research at Factory Mutual 04 p0513 N84-13370
Detonation-and-flame arresters for gasoline-vapor recovery systems 15 p2431 N84-25600
Unsteady heat transfer during laminar flame quenching
[DE84-006301] 23 p3715 N84-33550

EXTRACTION
NT GEOTHERMAL ENERGY EXTRACTION
NT ION EXTRACTION
NT SOLVENT EXTRACTION
Three-dimensional feature extraction
[AD-A131333] 02 p0294 N84-11926
An approach to rotation invariant texture classification and some experimental results
[AD-A134197] 07 p1061 N84-16881
Research into the electrodeposition of antimony
[BLL-OA-TRANS-3112-(6196.3)] 09 p1305 N84-18533
Supercritical solvent coal extraction
[NASA-CASE-NPO-15210-1] 13 p1955 N84-22709
Supercritical fluid chromatography/supersonic jet spectroscopy
[DE84-007364] 15 p2287 N84-24724
Supercritical fluid methods in analytical chemistry
[DE84-008289] 15 p2288 N84-24728
Cartographic feature extraction on ETL's (Engineer Topographic Laboratories') DIAL (Digital Image Analysis Laboratory) system
[AD-A140230] 16 p2511 N84-26112

EXTRAGALACTIC LIGHT
U EXTRATERRESTRIAL RADIATION
U LIGHT (VISIBLE RADIATION)

EXTRAGALACTIC MEDIA
U INTERGALACTIC MEDIA

EXTRAGALACTIC RADIO SOURCES
NT RADIO GALAXIES
Extragalactic emission-line objects and the Michigan-Tololo survey 04 p0622 N84-14101
Quasars and galaxies with active nuclei 10 p1594 N84-20448

Study of variability in extragalactic radio sources at 22 GHz and 44 GHz
[INPE-2913-TDL/149] 13 p2092 N84-23549
Quenchings and outbursts of extragalactic radio sources: Nine years of 3.3-mm measurements and comparisons with centimeter-wave variations
[AD-A136233] 13 p2092 N84-23550
Arcsecond positions for milliarcsecond VLBI nuclei of extragalactic radio sources, part 2: 207 sources
16 p2478 N84-25890
Brazil national report on radio astronomy (1981 - 1984)
[INPE-3052-PRE/473] 16 p2573 N84-26516
Stray light analysis of the Diffuse Infrared Background Experiment (DIRBE)
[NASA-CR-175225] 16 p2575 N84-26529
Low radio frequency extragalactic variable sources
23 p3845 N84-34390

EXTRAPOLATION
Explanation of the hypersonic longitudinal stability problem: Lessons learned 01 p0021 N84-10130
Height extrapolation of wind data
[DE83-012974] 01 p0109 N84-10706
Rational function frequency extrapolation in ultrasonic tomography
[AD-A131447] 02 p0268 N84-11888
Weighted nonparametric tail estimation procedures
[DE83-017870] 03 p0428 N84-12804
The magnetic state of the Earth at epoch 1885.0
[NASA-TM-77342] 09 p1343 N84-18774
Infrared monitoring of gyrotron windows
[DE84-004442] 10 p1499 N84-19799
Journal of Engineering Thermophysics (selected articles)
[AD-A137191] 11 p1745 N84-21391
The luminosity function of galaxies in CO-12
13 p2071 N84-23424
Development of MCAERO wing design panel method with interactive graphics module
[NAS 1.60:3775] 14 p2104 N84-23623
An explicit predictor-corrector solver with applications to Burgers' equation
[NASA-TM-84402] 14 p2211 N84-24276
Inner-sphere reorganization in optical electron transfer
[AD-A139722] 15 p2405 N84-25435
The K-distributions extrapolated on the basis of stress intensity rates
[NLR-MP-83048-U] 17 p2680 N84-27073
The missing cone problem in computer tomography and a model for interpolation in synthetic aperture radar
[AD-A142421] 20 p3174 N84-30157
An objective analysis technique for extrapolating tidal fields 20 p3222 N84-30471
Integration of species sensitivity and dosimetry data in the extrapolation of ozone and nitrogen dioxide health data from animals to man
[PB84-195312] 22 p3631 N84-33010
Cogeneration Technology Alternatives Study (CTAS). Volume 2: Comparison and evaluation of results
[NASA-TM-81401] 23 p3790 N84-34036
A comparison of storm tracking and extrapolation algorithms
[DOT-FAA-PM-84/1] 23 p3800 N84-34091
Triangular extrapolation
[AD-A144660] 24 p3952 N84-35025

EXTRASOLAR PLANETS
Detection of extrasolar planets by the large deployable reflector
[NASA-TM-85874] 11 p1757 N84-21471

EXTRATERRESTRIAL ENVIRONMENTS
NT CHROMOSPHERE
NT DEEP SPACE
NT INTERPLANETARY SPACE
NT INTERSTELLAR SPACE
NT JUPITER ATMOSPHERE
NT MARS ATMOSPHERE
NT MARS ENVIRONMENT
NT PLANETARY ATMOSPHERES
NT PLANETARY ENVIRONMENTS
NT SATELLITE ATMOSPHERES
NT SATURN ATMOSPHERE
NT SOLAR ATMOSPHERE
NT STELLAR ATMOSPHERES
NT VENUS ATMOSPHERE
Activities report of the Institute for Extraterrestrial Physics 13 p2069 N84-23407
Activities report of the Institute of Extraterrestrial Physics
[MPE-181] 15 p2423 N84-25557

EXTRATERRESTRIAL INTELLIGENCE
Challenges to astronomy and astrophysics: Working documents of the Astronomy Survey Committee
[PB83-203984] 01 p0165 N84-11080
Belt of life in the galaxy
[PR-76I] 08 p1243 N84-18127
SETI investigations at Jodrell Bank, England: September through November 1983 10 p1476 N84-19639

EXTRATERRESTRIAL LIFE
Aerospace Medicine and Biology: A continuing bibliography with indexes (supplement 260)
[NASA-SP-7011(260)] 19 p3064 N84-29440
The search for Martian life begins, 1959 - 1965
24 p3990 N84-35251
On Mars 24 p3991 N84-35259

EXTRATERRESTRIAL MATTER
NT COSMIC GASES
NT COSMIC PLASMA
NT INTERPLANETARY GAS
NT INTERSTELLAR GAS
NT NEUTRAL GASES
AEM of extraterrestrial materials
[NASA-CR-167781] 17 p2777 N84-27630

EXTRATERRESTRIAL RADIATION
NT CIRCUMSOLAR RADIATION
NT GALACTIC RADIATION
NT GALACTIC RADIO WAVES
NT GAMMA RAY BURSTS
NT INTERSTELLAR RADIATION
NT PLANETARY RADIATION
NT PRIMARY COSMIC RAYS
NT RADIO BURSTS
NT SOLAR COSMIC RAYS
NT SOLAR ELECTRONS
NT SOLAR NEUTRINOS
NT SOLAR PROTONS
NT SOLAR RADIATION
NT SOLAR RADIO BURSTS
NT SOLAR RADIO EMISSION
NT SOLAR WIND
NT SOLAR X-RAYS
NT STELLAR RADIATION
NT STELLAR WINDS
NT SUNLIGHT
NT ZODIACAL LIGHT
A high performance fiber optic telemetry link for use in a space radiation simulator
[AD-A132738] 05 p0643 N84-14232
Extraterrestrial radio noise and its effect on radar performance 06 p0870 N84-15662
A study of physical processes for space radiation protection
[NASA-CR-173183] 07 p1071 N84-16954
Intermediate energy proton stopping power for hydrogen molecules and monoatomic helium gas
07 p1071 N84-16955
Low-energy proton stopping power of N2, O2 and water vapor and deviations from Bragg's rule
07 p1071 N84-16956
A theoretical model for calculation of molecular stopping power 07 p1071 N84-16957
Dose in critical body organs in low Earth orbit
[NASA-TM-85778] 12 p1867 N84-22169
Exposure of spacecraft coatings (S0010)
15 p2273 N84-24648
Activities report of the Institute of Extraterrestrial Physics
[MPE-181] 15 p2423 N84-25557
Radiation testing of GaAs on CRRES and LIPS experiment 19 p3044 N84-29314
Theoretical models for the polarization of astronomical masers 21 p3522 N84-32313
Research in particles and fields --- cosmic rays, gamma rays, and cosmic plasma
[NASA-CR-173928] 23 p3845 N84-34392

EXTRATERRESTRIAL RADIO WAVES
NT GALACTIC RADIO WAVES
NT RADIO BURSTS
NT SOLAR RADIO BURSTS
NT SOLAR RADIO EMISSION

EXTRATERRESTRIAL RESOURCES
Research on the use of space resources
[NASA-CR-173213] 07 p0961 N84-16227
A review of in situ propellant production techniques for solar system exploration
[NASA-CR-173494] 13 p1936 N84-22595

EXTRAVEHICULAR ACTIVITY
Satellite services system analysis study, part 3
[NASA-CR-171718] 02 p0183 N84-11188
Absorbent product and articles made therefrom
[NASA-CASE-MSC-18223-2] 02 p0269 N84-11758
Orbiter-based construction equipment study. The HPA/DTA technology advancement plan
[NASA-CR-174605] 05 p0644 N84-14233
41-B tenth Space Shuttle mission
[NASA-NEWS-RELEASE-84-4] 07 p0963 N84-16241
Manned flight chronology 09 p1263 N84-18248
Crew and life support: EVA 09 p1268 N84-18279
Space station needs, attributes and architectural options. Volume 2, attachment 2: Supporting data and analysis reports
[NASA-CR-173329] 09 p1269 N84-18291
Discussion of cosmonaut EVA for solar battery installation 12 p1774 N84-21571
Shuttle interaction study
[NASA-CR-173400] 12 p1777 N84-21592
Satellite services handbook. Interface guidelines
[NASA-CR-171774] 12 p1777 N84-21597
Verification of an altitude decompression sickness prevention protocol for Shuttle operations utilizing a 10.s psi pressure stage
[NASA-TM-58259] 18 p2899 N84-28392

EXTRAVEHICULAR MOBILITY UNITS
NT ASTRONAUT MANEUVERING EQUIPMENT

EXTREME ULTRAVIOLET RADIATION
Laser techniques for extreme-ultraviolet spectroscopy
[DE83-014834] 02 p0227 N84-11486
Solar EUV, XUV and soft X-ray telescope facilities
[NASA-CR-170602] 02 p0305 N84-11999
A study of the large-scale structure of the plasmasphere using extreme ultraviolet observations
02 p0306 N84-12009
An extreme ultraviolet study of Tokamak plasmas using a time-resolving spectrograph 05 p0748 N84-14915
The GOES X-ray Imager feasibility demonstration
[PB84-111970] 09 p1319 N84-18614
An extreme ultraviolet spectrometer experiment for the Shuttle Get Away Special Program
18 p2801 N84-27778
Particle excitation, airglow and H2 vibrational disequilibrium in the atmosphere of Jupiter
[NASA-CR-173930] 23 p3843 N84-34383
Satellite observations of the extreme ultraviolet and far ultraviolet radiation fields 24 p3994 N84-35280

EXTREMELY HIGH FREQUENCIES
Mathematical models for the brightness temperature of object and environment in the microwave region
[DFVLR-FB-83-12] 02 p0211 N84-11378
Dielectric loss measurement at millimetre wave frequencies using an untuned cavity
[RSRE-MEMO-3597] 03 p0366 N84-12379
Observations and classifications with a 35/94 GHz radiometer of terrain near Motala, Sweden, July 1982
[FOA-C-30325-E1,E3] 03 p0402 N84-12630
The 30 GHz communications satellite low noise receiver
[NASA-CR-168254] 04 p0517 N84-13398
Experimental study of a dielectric antenna at the frequency range of 76-80 GHz
[AD-A134429] 07 p0993 N84-16438
V-band integrated quadriphase modulator
[NASA-CR-175159] 08 p1149 N84-17480
Development of innovative millimeter-wave broadband mixers
[AD-A136134] 09 p1310 N84-18562
On the dielectric properties of dry snow in the 800 MHz to 13 GHz range --- remote sensing
[REPT-S-135] 09 p1337 N84-18733
Spectral line receiver for 80-90 GHz designed at the Helsinki University of Technology
09 p1413 N84-19243
A homologous microwave flare on May 29, 1980
09 p1413 N84-19246
Ka-band Ga-As FET noise receiver/device development
[NASA-CR-175176] 10 p1484 N84-19705
Molecular clouds and galactic spiral structure
10 p1596 N84-20459
The 30-GHz monolithic receive module
[NASA-CR-168326] 11 p1642 N84-20737
Multipath propagation at 11, 18, and 36 GHz due to ducting
[FOA-C-20511-E2] 12 p1810 N84-21800
Rain attenuation at 11, 18, and 36 GHz
[FOA-C-20512-E2] 12 p1810 N84-21801
Analysis of propagation conditions at 20 and 30 GHz in Europe
[CRPE-NT-122] 13 p1984 N84-22880
K-band latching switches
[NASA-CR-168253] 15 p2327 N84-24973
V-band IMPATT transmitter
[NASA-CR-175249] 18 p2832 N84-27976
Backscatter measurements on snow covered terrain at 94 GHz --- radar
[REPT-4-84] 20 p3172 N84-30144

EXTREMELY LOW FREQUENCIES
Eruption of permanent dentition in rhesus monkeys exposed to ELF (Extremely low frequency) fields
[AD-A132065] 03 p0413 N84-12703
Review of ionospheric VLF and ELF generation
05 p0634 N84-14174

Extremely Low Frequency (ELF) communications system ecological monitoring program: Plan and summary of 1982 progress
[AD-A135482] 08 p1144 N84-17445
Wireless communication systems
[AD-A135830] 09 p1300 N84-18496
Propagation of ELF (extremely low frequencies) waves in the spherical Earth-ionosphere waveguide with transverse and longitudinal variation of properties
[AD-A135890] 09 p1300 N84-18502
Connecticut ELF (Extremely Low Frequency) field strength measurements, March to May 1978
[AD-A137385] 10 p1479 N84-19666
Connecticut ELF (Extremely Low Frequency) field measurements, May to July 1977
[AD-A137416] 10 p1480 N84-19668
Active ionospheric generation on ELF/VLF waves
[AD-A139317] 14 p2176 N84-24034
Representative electromagnetic field intensities near the Clam Lake, Wisconsin and Republic, Michigan ELF (Extremely Low Frequency) facilities
[AD-A140798] 17 p2654 N84-26972
An improved MSK generator diagnostic unit
[AD-A140568] 17 p2672 N84-27028

EXTREMELY LOW RADIO FREQUENCIES
An analysis of pC-3 micropulsion in the geomagnetic field
[AD-A132443] 04 p0563 N84-13709
Communications magnetospheric substorms
[AD-A133896] 05 p0703 N84-14611

EXTREMUM VALUES
NT LIMITS (MATHEMATICS)
NT MAXIMA
NT MINIMA
The extreme point characterizations of semi-infinite dual non-archimedean balls
[AD-A138016] 12 p1893 N84-22330
Continuous energy gamma-ray spectrometry
[DE84-006349] 14 p2123 N84-23726
Spectrum analyzer and analysis method for measuring power and wavelength of electromagnetic radiation
[AD-D011044] 19 p3027 N84-29198

EXTRUDING
NT PULTRUSION
Structure and properties of polyethylene
[PB83-243931] 02 p0202 N84-11316
Extrusion. State of the art and development, review paper
[RAE-TRANS-2102] 04 p0515 N84-13381
Aluminium extrusion: A metal forming process
09 p1293 N84-18444
The manufacture and finishing of aluminium extrusion dies
09 p1293 N84-18447
Equipment and design changes in extrusion of foamed fluoropolymer resins
11 p1721 N84-21229
Microstructures associated with wear
14 p2153 N84-23901
Solid state compressor
[AD-A140498] 16 p2499 N84-26032
New material, process spins off from Volvo LCP 2000 program
17 p2640 N84-26891
Analysis of fracture modes during extrusion and drawing of bimetal rods or wire
[DE84-009849] 20 p3157 N84-30051
Uniaxial draw of poly(ethylene oxide) by solid state extrusion
[AD-A141923] 20 p3161 N84-30074
Low cost thermal protection system processing
[AD-D011142] 22 p3544 N84-32434

EYE (ANATOMY)
NT CONJUNCTIVA
NT FOVEA
NT NYSTAGMUS
NT OCULOMOTOR NERVES
NT PUPILS
NT RETINA
Hemodynamic reactions to positive intrathoracic pressure at +G sub z accelerations
02 p0259 N84-11698
An age comparison of the vestibulo-ocular counterroll reflex
[AD-A132064] 03 p0415 N84-12716
Vestibulo-ocular reflex gain in man during active versus passive oscillation and the influence of voluntary gaze-control tasks
[AD-A132006] 03 p0415 N84-12717
Functional assessment of laser irradiation
[AD-A139490] 15 p2378 N84-25273
Guidelines for running the thermal computational model of the eye
[AD-A142550] 20 p3260 N84-30688
Correlation of afferent activity and binocular receptive field properties
[AD-A143087] 21 p3457 N84-31938
Eye safe laser transmitter
[AD-D011145] 22 p3597 N84-32779
Occupational Medicine Relevant to Aviation Medicine
[AGARD-CP-341] 22 p3631 N84-33011
Visual function and the definition of thresholds for exposure to laser radiation 22 p3632 N84-33019

EYE DISEASES
Ergo-ophthalmological aspects of the VDU: Visual strain and the blue light lesion
[DRIC-T-6921] 09 p1361 N84-18893

EYE EXAMINATIONS
Military Medical Journal, no. 5, May 1983
[L-2404] 11 p1693 N84-21047
Aspects of medical examinations of airmen with regard to eye diseases 11 p1694 N84-21048

EYE MOVEMENTS
NT NYSTAGMUS
Neurocognitive pattern analysis
[AD-A131302] 01 p0114 N84-10740
Spatiotemporal characteristics of visual localization
[AD-A133952] 06 p0888 N84-15770
Spatial localization in strabismic observers
[AD-A132748] 06 p0890 N84-15784
Temporal aspects of eye movement when viewing multiple targets
[AD-A134853] 08 p1201 N84-17828
Design criteria for reducing popping in area-of-interest displays: Preliminary experiments
[AD-A136769] 10 p1430 N84-19351
Nonlinear prediction of head movements for helmet-mounted displays
[AD-A136590] 10 p1555 N84-20192
Investigation of the effect of the viewing target height on the eye height of sitting Visual Display Unit (VDU) operators
[IZF-1983-9] 12 p1869 N84-22177
Evaluation of eye movement training for Navy pilots
[AD-A139489] 14 p2185 N84-24091
Eye movements and visual information processing
[AD-A140438] 16 p2538 N84-26296
Eye movements and spatial pattern vision
[AD-A140949] 18 p2914 N84-28481
Development of a general model of the car drivers eye movement sequences and effects of subject and environmental variables
[AD-A144180] 24 p3936 N84-34915
The mechanism of human velocity discrimination
[AD-A144527] 24 p3936 N84-34918
Gaze control during horizontal and vertical target tracking
[AD-A144484] 24 p3938 N84-34926

EYE PROTECTION
Safety eye protection through use of fast acting optical switching
[AD-A138582] 13 p2023 N84-23120

F

F CENTERS
U COLOR CENTERS

F DISPLAYS
U F REGION

F LAYER
U F REGION

F REGION
NT F 2 REGION
Small scale structure in the Earth's ionosphere: Theory and numerical simulation
[AD-A130462] 01 p0105 N84-10680
Parametric excitation and suppression of convective plasma instabilities in the high latitude F-region ionosphere
[AD-A130652] 01 p0105 N84-10682
High-latitude F-region irregularities: Intensity and scale size distributions
[AD-A130689] 01 p0105 N84-10684
The anisotropy of high latitude nighttime F-region irregularities
[AD-A131215] 01 p0106 N84-10688
Evidence of East-West structure in large-scale F-region plasma enhancements in the auroral zone
[AD-A131263] 01 p0106 N84-10689
Improvement of the scintillation-irregularity model in WBMOD
[AD-A131536] 02 p0249 N84-11632
Some characteristics of midlatitude F layer storms generated by thermosphere-plasmasphere coupling processes 02 p0251 N84-11645
Overview of project Brazil Ionospheric Modification Experiment (BIME) 05 p0639 N84-14207
Project Waterhole III — ionospheric perturbation experiments 05 p0640 N84-14210
Bottomside sinusoidal waves, a new class of equatorial plasma irregularities 05 p0705 N84-14628
F-region variability and HF-propagation
06 p0869 N84-15658
Microinstabilities in the high latitude F region: A brief review
[DE84-001709] 06 p0879 N84-15719
Ohmic heating of the polar f-region by HF (High Frequency) pulse
[AD-A135946] 09 p1345 N84-18789
Prediction of total electron content using the International Reference Ionosphere
[AD-A137136] 10 p1536 N84-20066
Solar cycle related range type spread F occurrence characteristics over equatorial and low latitude stations in Brazil
[INPE-3024-PRE/462] 12 p1846 N84-22037
Equatorial plasma bubble eastward velocity characteristics from scanning airglow photometer measurements over Cachoeira Paulista
[INPE-3026-PRE/464] 12 p1847 N84-22039
Low latitude F-region studies using the OI6300 angstrom and 7744 angstrom nightglow measurements at Cachoeira Paulista, Brazil
[INPE-3025-PRE/463] 12 p1847 N84-22040
Velocity shear stabilization of the current convective instability
[AD-A137963] 12 p1909 N84-22439
Rayleigh-Taylor instability in the presence of a stratified shear layer
[AD-A138544] 13 p2011 N84-23043
F-layer ionization patches in the polar cap
[AD-A138633] 13 p2011 N84-23044
A high frequency radio technique for measuring plasma drifts in the ionosphere
[AD-A140509] 16 p2526 N84-26219
Spectrum of phase fluctuations during probing of ionosphere 18 p2822 N84-27916
Modelling of ionospheric irregularities and total electron content
[AD-A141236] 18 p2880 N84-28284
High-latitude ionospheric irregularities
[AD-A142648] 20 p3241 N84-30573
Nighttime enhancements in the TEC and magnetic storm response of the tropical F-region over Brazil
[INPE-3038-PRE/469] 21 p3442 N84-31839
The variation of range type spread F occurrence with a solar cycle at Fortaleza and Cachoeira Paulista
[INPE-3209-PRE/566] 23 p3797 N84-34080

F 2 REGION
Global maps of foF2 derived from observations and theoretical values
[PB84-163906] 15 p2369 N84-25215
On the study of the prediction method of ionospheric F2-layer critical frequency 24 p3955 N84-35043

F-4 AIRCRAFT
Development and flight test of an active flutter suppression system for the F-4F with stores. Part 3. Flight demonstration of the active flutter suppression system
[AD-A131972] 03 p0337 N84-12191
Aircraft accident report. Midair collision: McDonnell-Douglas F-4C Beech D-55 Baron, Cherry Point, North Carolina, 9 January 1983
[PB84-910407] 22 p3533 N84-32368

F-8 AIRCRAFT
Flight investigation of various control inputs intended for parameter estimation
[NASA-TM-85901] 20 p3131 N84-29884

F-110 AIRCRAFT
U F-4 AIRCRAFT

F-14 AIRCRAFT
Identification of bottlenecks and capacity constraints in F-14, F-15, F-16, and F/A-18 aircraft production
[AD-A134629] 08 p1095 N84-17121
Evaluation of a flow direction probe and a pitot-static probe on the F-14 airplane at high angles of attack and sideslip
[NASA-TM-84911] 11 p1606 N84-20514
F-14 scale model measurements. Part 1: External response
[DE84-006201] 15 p2258 N84-24562
F-14 modeling study
[NASA-CR-172336] 16 p2448 N84-25701
Development of lateral-directional equivalent system models for selected U.S. Navy tactical aircraft
[AD-A141672] 19 p2968 N84-28810

F-15 AIRCRAFT
A model to investigate losses and exchange ratios in large-scale air-to-air engagements
[AD-A131410] 02 p0178 N84-11166
Effect of thrust reverser operation on the lateral-directional characteristics of a three-surface F-15 model at transonic speeds
[NASA-TP-2234] 04 p0481 N84-13165
Identification of bottlenecks and capacity constraints in F-14, F-15, F-16, and F/A-18 aircraft production
[AD-A134629] 08 p1095 N84-17121
Flight evaluation of the DEEC secondary control air-start capability
[NASA-TM-84910] 09 p1257 N84-18203

A wind tunnel investigation to determine dominant forebody strake design characteristics for an F-15 equipped with conformal fuel tanks
[AD-A136912] 10 p1421 N84-19292
The effect of constant versus oscillatory rates on dynamic stability derivatives
[AD-A136913] 10 p1421 N84-19293
Testing for severe aerodynamically induced vibration environments 10 p1513 N84-19905
The development of an airborne instrumentation computer system for flight test
[NASA-TM-86036] 11 p1607 N84-20521
MAGNA (Materially and Geometrically Nonlinear Analysis) computer simulation of bird impact on the F-15 aircraft canopy
[AD-P003230] 17 p2597 N84-26643
Preliminary flight evaluation of F100 engine model derivative airstart capability in an F-15 airplane
[NASA-TM-86031] 19 p2965 N84-28792
F-15 AN/APG-63 radar case study report IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A142071] 20 p3129 N84-29873
Effect of control logic modifications on airstart performance of F100 engine model derivative engines in an F-15 airplane
[NASA-TM-85900] 20 p3130 N84-29879
Closing the gap between aircraft and simulator training with Limited Field-Of-View (LFOV) visual systems
[AD-P003448] 21 p3508 N84-32225
Propulsion control experience used in the Highly Integrated Digital Electronic Control (HIDEC) program
[NASA-TM-85914] 23 p3695 N84-33415
The development of an airborne instrumentation computer system for flight test 24 p3851 N84-34421
F-15 Limited Field of View visual system training effectiveness evaluation
[AD-A144309] 24 p3938 N84-34925

F-16 AIRCRAFT
F-16 Penguin anti-ship missile integration
03 p0315 N84-12059
Design implications from AFTI/F-16 flight test
[NASA-TM-86026] 05 p0832 N84-14157
System architecture: Key to future avionics capabilities 06 p0768 N84-15035
A Q-GERT analysis of the effect of improved automatic testing on F-16 aircraft availability
[AD-A134280] 07 p0945 N84-16128
Aircraft avionic system maintenance cannot duplicate and Retest-OK analytical source analysis
[AD-A134449] 07 p0945 N84-16129
Low-level flight simulation: Vertical cues
[AD-A133612] 07 p1050 N84-16802
Sensory redundancy management: The development of a design methodology for determining threshold values through a statistical analysis of sensor output data
[NASA-CR-173270] 07 p1059 N84-16859
Identification of bottlenecks and capacity constraints in F-14, F-15, F-16, and F/A-18 aircraft production
[AD-A134629] 08 p1095 N84-17121
Multivariable control laws for the AFTI/F-16
[AD-A135870] 09 p1258 N84-18210
Surface-attack mission simulation: Preliminary scenario evaluation
[AD-A135868] 09 p1259 N84-18219
AFTI/F-16 digital flight control system experience
11 p1619 N84-20592
Aircraft ground vibration test instrumentation system
[AD-P002694] 11 p1660 N84-20829
Evaluation of a digital flight controller for a flexible-fighter aircraft
[AD-A138269] 12 p1772 N84-21558
Industrial hygiene data for F-16 aircraft refueling inside closed aircraft shelters. Supplementary
[AD-A138364] 12 p1865 N84-22154
An industrial hygiene evaluation of F-16 aircraft refueling inside closed aircraft shelters
[AD-A138501] 12 p1866 N84-22157
Proceedings of the Workshop on Multivariable Control Systems
[AD-A139050] 15 p2253 N84-24529
Multivariable control laws for the AFTI/F-16
[AFIT/GE/EE/83S-4] 15 p2253 N84-24531
Monolithic F-16 uniform thickness stretched acrylic canopy transparency program
[AD-A140645] 17 p2606 N84-26694
F-16 APG-66 fire control radar case study report IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A142075] 20 p3129 N84-29874
A common 1553B I/O channel for the F-16
[AD-P003546] 21 p3333 N84-31150
Elements for successful implementation of computing standards
[AD-P003566] 21 p3336 N84-31171
Handling of hydrazine in the Royal Danish Air Force
22 p3631 N84-33014
Flight testing a digital flight control system: Issues and results 24 p3848 N84-34403
Ground vibration test of F-16 airplane with initial decoupler pylon
[NASA-TM-86259] 24 p3854 N84-34439

F-18 AIRCRAFT
Advanced F/A-18 avionics 06 p0770 N84-15048
Identification of bottlenecks and capacity constraints in F-14, F-15, F-16, and F/A-18 aircraft production
[AD-A134629] 08 p1095 N84-17121
Physiological acceptability tests of the modified SJU-5/A ejection seat for the F-18 aircraft
[AD-A139416] 14 p2103 N84-23614
Computer program to simulate digital computer based longitudinal flight control laws in a high performance aircraft
[AD-A140143] 16 p2451 N84-25719
Development of lateral-directional equivalent system models for selected U.S. Navy tactical aircraft
[AD-A141672] 19 p2968 N84-28810

F-106 AIRCRAFT
Design of incident field B-dot sensor for the nose boom of NASA F-106B aircraft
[AD-A141765] 19 p2964 N84-28787
Lightning swept-stroke attachment patterns and flight conditions for storm hazards 1981
[NASA-TM-86279] 22 p3532 N84-32365

F-111 AIRCRAFT
Combined environment test of Sangamo Weston SABRE 12 airborne recorder
[AD-A131278] 02 p0223 N84-11463
The use of oil for in-flight flow visualization
[NASA-TM-84915] 05 p0627 N84-14122
F-111 TACT natural laminar flow glove flight results
18 p2783 N84-27662

FAB (PROGRAMMING LANGUAGE)
U FORTRAN

FABRICATION
NT SPACE MANUFACTURING
The influence of fabrication flows on the static and dynamic behavior of structures made of carbon-resin composites 01 p0034 N84-10215
Beta titanium alloy metal-metal laminates: Fabrication, structure and mechanical properties
[AD-A130378] 01 p0043 N84-10278
Acceleration of S&T progress discussed
01 p0055 N84-10358
Process development of making bearings and bushings from continuous-cast SAE 660 bronze alloy plate
[DE83-014234] 01 p0057 N84-10374
New fabrication process for a tubular LiAl/FeS cell battery
[DE83-014305] 01 p0074 N84-10488
Insulation-resistance measurements of coated and uncoated printed wiring boards
[DE83-015457] 01 p0074 N84-10489
Velocity interferometry for time-resolved high-velocity measurements
[DE83-013968] 01 p0088 N84-10577
Design and fabrication of a fiberglass circular-weave composite flywheel
[DE83-013406] 01 p0090 N84-10589
Photoconductor fabrication for operation in the thermal infrared — lead tin tellurides
[INPE-2835-PRE/384] 02 p0298 N84-11952
A balloon design for 9000 pounds at 90,000 feet: Recommendations based on heavy-load balloon history
[AD-A131967] 03 p0320 N84-12093
Walk-through survey report: Control technology for integrated circuit fabrication, Xerox Corporation, El Segundo, California
[PB83-239053] 03 p0359 N84-12333
Seamless collapsible fuel tanks
[AD-A131933] 03 p0383 N84-12496
Ultra low loss optical fiber cable assemblies, volume 1
[AD-A132007] 03 p0440 N84-12892
Fabrication and properties of multilayer structures
[AD-A131934] 03 p0451 N84-12969
A program of research on microfabrication techniques for VLSI magnetic devices
[AD-A131706] 03 p0452 N84-12978
Low-cycle fatigue behavior of oxygen-free high-conductivity copper at 300OC in high vacuum
[DE84-000725] 04 p0504 N84-13305
A rectangular gate merged MOSBJT
[AD-A132450] 04 p0525 N84-13453
Introduction to flexible manufacturing systems: Their applications, classification, and opportunities
[DE83-017373] 04 p0586 N84-13868
Preparation of infrared optic fibers using new materials
[AD-A132311] 04 p0604 N84-13968
Chemical vapor deposition of oriented tungsten foils for thermionic cathodes
[AD-A132379] 04 p0612 N84-14040
Mercuric 5-nitrotetrazole, a possible replacement for lead azide in Australian ordnance. Part 1: An assessment of preparation methods
[MRL-R-901] 05 p0661 N84-14344
Development of short gate FET's
[AD-A133852] 05 p0674 N84-14431
AFCRL (Air Force Cambridge Research Laboratories) acoustic wind sensor system
[AD-A133739] 05 p0708 N84-14641
Laser and electron beam processing of semiconductors: CW beam-recrystallized polysilicon as a device-worthy material
[AD-A133759] 05 p0753 N84-14942
Arc spray fabrication of metal matrix composite monotape — high temperature fiber-reinforced superalloy composites
[NASA-CASE-LEW-13828-1] 06 p0798 N84-15203
A magnetically suspended linearly driven cryogenic refrigerator 06 p0820 N84-15345
Fabrication and properties of multilayer structures
[NASA-CR-174506] 06 p0922 N84-15997
Contactless pellet fabrication
[NASA-CASE-NPO-15592-1] 07 p1069 N84-16940
Design and fabrication of circular and rectangular components for electron-cyclotron-resonant heating of tandem mirror experiment-upgrade
[DE84-003244] 07 p1078 N84-17010
Fabrication of Schottky barrier detectors on thin films of PbSSe
[AD-A134310] 07 p1080 N84-17020
Development of a high pressure water jet for the rapid removal of concrete
[PB84-109909] 08 p1142 N84-17426
Research in VLSI systems. Heuristic programming project and VLSI theory project. A fast turn around facility for very large scale integration (VLSI)
[AD-A134809] 08 p1151 N84-17494
Linear Fresnel lens photovoltaic concentrator program
[DE84-002971] 08 p1180 N84-17689
Status, needs, and opportunities for structural ceramics in advanced heat engines
[DE84-003307] 09 p1289 N84-18413
Electromagnetic levitation coil fabrication technique for MSFC containerless processing facilities
[NASA-TM-82565] 09 p1306 N84-18535
Development of a planar heterojunction bipolar transistor for very high speed logic
[AD-A136341] 09 p1306 N84-18539
Development of innovative millimeter-wave broadband mixers
[AD-A136134] 09 p1310 N84-18562
Manufacturing methods and technology, CAM (Computer Aided Manufacturing) related projects, FY 83-85
[AD-A136572] 09 p1367 N84-18924
A Systolic Design Rule Checker (SDRC)
[AD-A136194] 09 p1378 N84-19006
Composite ring-disk flywheel design, fabrication and testing
[DE84-004761] 10 p1453 N84-19488
Titanium fabrication
[DE84-004374] 10 p1462 N84-19551
Impact of electrostatics on IC (Integrated Circuit) fabrication
[AD-A137372] 10 p1486 N84-19713
Fabrication and evaluation of chirped grating lenses in lithium niobate waveguides
[AD-A137103] 10 p1579 N84-20345
Material growth and characterization for solid state devices
[NASA-CR-173265] 10 p1587 N84-20401
The characteristics of iris-fed millimeterwave rectangular microstrip patch antennas
[PB84-134634] 11 p1648 N84-20775
Computer modeling of complete IC fabrication process
[AD-A138006] 12 p1879 N84-22247
Study of defects produced by the growth, post treatment and fabrication of quartz
[AD-A138327] 12 p1914 N84-22471
Preliminary results of the effects of sewing, packing and parachute deployment on material strength
[DE84-006464] 13 p1927 N84-22541
Effect of fabrication techniques on consolidated charge burning 13 p1948 N84-22668
Method of making a light weight battery plaque
[NASA-CASE-LEW-13349-1] 13 p1960 N84-22734
An assessment of the reliability of edge connectors --- circuit boards
[ERA-82-22] 13 p1985 N84-22888
Novolac as stain protective film during optical glass fabrication
[DE84-005735] 13 p2044 N84-23260

Mechanical behavior of surface aminated polyaramid fabric/epoxy composites
[DE84-006230] 14 p2120 N84-23708
Development of high-efficiency concentrator cell configuration
[DE84-006356] 14 p2173 N84-24012
Development of high temperature ceramic parts for vehicular gas turbines
[BMFT-FB-T-84-006] 15 p2301 N84-24812
Ultrasonic machining (impact grinding)
[DE84-007783] 15 p2344 N84-25069
Milliwatt generator heat source
[DE84-008207] 15 p2407 N84-25447
Ultra lightweight mirror fabrication technology
[AD-A140019] 15 p2408 N84-25454
Study of defects produced by the growth, post treatment and fabrication of quartz
[AD-A139834] 15 p2413 N84-25485
Cryogenic 75-95 GHz front-end for the Metsaehovi radio telescope
[REPT-S-145] 15 p2424 N84-25564
Fabrication development for ODS-superalloy, air-cooled turbine blades
[NASA-CR-174650] 16 p2450 N84-25711
Space processing applications rocket project. SPAR 8
[NASA-TM-82578] 16 p2455 N84-25745
Multidirectional composites in ballistic and aerospace vehicles
[SNIAS-832-430-102] 16 p2458 N84-25759
Composite materials: The user and the producer
[SNIAS-832-111-108] 16 p2461 N84-25772
Interface formation in physically deposited films
[MLM-3089] 16 p2470 N84-25827
The listing and approval procedure for materials and processes
[ESA-PSS-01-716-ISSUE-1] 16 p2500 N84-26046
Liquid crystal polyester-carbon fiber composites
[NASA-CR-172323] 17 p2618 N84-26754
Development of short gate FET's
[AD-A140819] 17 p2663 N84-26992
Scanning photoelectric devices of search and tracking
[AD-A132566] 17 p2671 N84-27027
A versatile structure for GAS payloads
18 p2801 N84-27775
Advanced fuel cell development
[DE84-008964] 18 p2834 N84-27994
High density circuit technology, part 1
[NASA-CR-162008] 19 p3012 N84-29094
Principles and prospects for micro heat pipes
[DE84-006035] 19 p3020 N84-29149
Structurally stable, thin silicon solar cells
19 p3044 N84-29309
Panel fabrication utilizing GaAs solar cells
19 p3048 N84-29337
Laser-assisted solar cell metallization processing
[NASA-CR-173764] 19 p3050 N84-29354
Laser-assisted solar cell metallization processing
[NASA-CR-173763] 19 p3050 N84-29355
Measurement techniques using ultrashort optical pulses
[DE84-009241] 19 p3105 N84-29728
Experimental study of the naphtaline heat pipe
20 p3169 N84-30125
Dynamic powder compaction
[DE84-006133] 20 p3170 N84-30132
Photovoltaic concentrators: Present status and future role
[DE84-005520] 20 p3235 N84-30532
Low cost, sprayed CuInSe2 solar cell research
[DE84-010480] 20 p3235 N84-30533
Diffusion and electrical properties of sulfur implanted in gallium arsenide
[AD-A142405] 20 p3306 N84-31012
Metal finishing and vacuum processes groups
[DE84-011046] 21 p3367 N84-31358
Broadband cavity-backed slot using printed circuit technology
[AD-P003508] 21 p3384 N84-31476
Improved photovoltaic cells and electrodes
[DE84-011105] 21 p3393 N84-31530
The study of efficient low-power diffraction designs
[NASA-CR-171142] 21 p3405 N84-31598
Development of long-length wire filament strain gages
[DE84-011543] 21 p3406 N84-31605
A study of the drawing process for optical fibers
[AD-A142930] 21 p3498 N84-32171
Method for making Josephson junctions with contamination-free interfaces utilizing a ZNO contact insulator
[AD-D011057] 22 p3580 N84-32671
Three-dimensional circuit layouts
[AD-A143430] 22 p3586 N84-32713
CdS/CuInSe2 heterojunction cell research
[DE84-004508] 22 p3618 N84-32926
High-efficiency multi-colored photovoltaic cells
[PB84-200575] 22 p3619 N84-32932
Method for fabricating MNOS structures utilizing hydrogen ion implantation
[AD-D011123] 22 p3661 N84-33208
Submicron structures technology and research
22 p3683 N84-33353
Fabrication of metallic glass structures
[DE84-014499] 23 p3725 N84-33606
Multilayer ceramic capacitor
[AD-D011166] 23 p3742 N84-33723
Method of fabricating a monolithic core for a solid oxide fuel cell
[DE84-014665] 23 p3743 N84-33727
Solid oxide fuel cell having monolithic core
[DE84-014659] 23 p3743 N84-33728
Three-dimensional photochemical machining with lasers
[AD-A143928] 23 p3754 N84-33798
Flat-plate solar array project process development area, process research of non-CZ silicon material
[NASA-CR-173926] 23 p3786 N84-34012
Silicon solar cell process development, fabrication and analysis
[NASA-CR-173950] 23 p3787 N84-34020
Investigation of test methods, material properties and processes for solar cell encapsulants
[NASA-CR-173940] 23 p3789 N84-34029
Fabrication of glass gas cells for the HALOE and MAPS satellite experiments
[NASA-TM-86302] 24 p3866 N84-34501
Advanced composite vertical stabilizer for DC-10 transport aircraft
[NASA-CR-173985] 24 p3878 N84-34573
Direct writing of microstructures for microelectronics
[AD-A144528] 24 p3898 N84-34687

FABRICS
NT DACRON (TRADEMARK)
NT GAUZE
NT PARACHUTE FABRICS
Mechanical properties of bis-phenol-A polysulfone and acetylene terminated bis-phenol-A blend
[AD-A131277] 02 p0200 N84-11303
Heat sealable, flame and abrasion resistant coated fabric
[NASA-CASE-MSC-18382-2] 05 p0658 N84-14324
Evaluation of fabric interlayers
[PB83-253245] 05 p0664 N84-14363
Influence of constituent properties and geometric form on behavior of woven fabric reinforced composites
[NASA-CR-173326] 09 p1275 N84-18326
Comparison of seam types
[AD-A137383] 10 p1466 N84-19574
TICA (Torsion Impregnated Cloth Analysis) study of high-temperature thermoplastics
[AD-A137048] 10 p1468 N84-19586
Finite element analysis of fabrics with nonlinear stress-strain laws
[AD-P002977] 14 p2202 N84-24213
Investigations of the feasibility of fabric filters at high temperatures and pressures for an energy saving method of gas purification
[BMFT-FB-T-83-292] 15 p2286 N84-24718
Safety recommendations A-84-12 and -13
16 p2444 N84-25677
Threadwise analysis of woven fabric composites
[NAL-TR-792T] 16 p2470 N84-25832

FABRY-PEROT INTERFEROMETERS
Velocity interferometry for time-resolved high-velocity measurements
[DE83-013968] 01 p0088 N84-10577
Application of laser anemometry in turbine engine research
[NASA-TM-83513] 02 p0222 N84-11456
Fabry-Perot velocimetry techniques: Is Doppler shift affected by surface-normal direction?
[DE83-015902] 02 p0224 N84-11472
OI 630.0 nm optical measurements of neutral winds, temperatures and airglow enhancements during the BIME program
[AD-A131695] 03 p0406 N84-12671
Ultrasensitive optical rotation and refractive-index measurements
[DE83-018078] 03 p0442 N84-12903
Fabry-Perot interference filters
[AD-A136511] 09 p1388 N84-19066
Theory of optical bistability in collinear degenerate four-wave mixing 14 p2238 N84-24434
Optical extinction theorem theory of optical multi-stability bifurcations and turbulence in the Fabry-Perot interferometer 14 p2239 N84-24442
New developments in cylinder testing
[DE84-002782] 15 p2337 N84-25033
Basic elements of the tilting filter photometer
[INPE-3124-MD/026] 16 p2495 N84-26006
Feasibility study on the application of Fabry-Perot interferometry and imaging photon detectors to ocean colour monitoring
[OMD/HVM-83] 23 p3784 N84-34002

FABRY-PEROT LASERS
U LASERS

FABRY-PEROT SPECTROMETERS
Multi-parameter universal route to chaos in a Fabry-Perot resonator 14 p2233 N84-24399

FACETS
U FLAT SURFACES

FACSIMILE COMMUNICATION
Users manual for NCS (National Communications System) facsimile test document tapes. Addendum
[AD-A133830] 05 p0684 N84-14498
The development of efficient coding for an electronic mail system
[NASA-CR-173201] 07 p0992 N84-16429
Microfiche Image Transmission System (MITS) demonstration field evaluation of microfacsimile
[AD-A134716] 08 p1145 N84-17450
MITS II (Microfiche Image Transmission System) investigations and design alternatives
[AD-A141040] 18 p2945 N84-28673

FACSIMILE TRANSMISSION
U FACSIMILE COMMUNICATION

FACTOR ANALYSIS
The analysis of crack growth data with application to trip steel
[AD-A132021] 03 p0389 N84-12535
A lower-upper factored implicit scheme for the numerical solution of the Euler equations applied to arbitrary cascades 06 p0780 N84-15111
On the representation of a basis for the null space
[AD-A136419] 09 p1375 N84-18979
A comparison of random balance and two-stage group screening designs, part 1
[AD-A136487] 09 p1376 N84-18984
Classification methods: An introductory survey
09 p1408 N84-19204
The manifold of spheroidal galaxies
09 p1409 N84-19208
Prediction of spectral classification from photometric data. Application to the MK spectral classification and the Geneva photometric system
09 p1410 N84-19221
Pairwise balanced latin squares should always be used for within-subjects designs
[AD-A137283] 10 p1569 N84-20282
An application of a multidimensional extension of the two-parameter logistic latent trait model
[AD-A137741] 11 p1713 N84-21170
Applications of multivariate statistical techniques for computer performance evaluation
[AD-A138268] 12 p1894 N84-22336
Kerma factors for use in 37-group neutron spectrum calculations
[AD-A139033] 13 p2041 N84-23240
Factor stability and construct validation of Yukl's MBS (Managerial Behavior Survey) for military leadership
[AD-P003246] 18 p2904 N84-28413
Aircrew performance with simulated advanced radar and FLIR (Forward Looking Infrared) sensors in single- and two-place crew stations
[AD-P003269] 18 p2907 N84-28434
Psychophysiological tools in engineering psychology
[AD-P003337] 18 p2911 N84-28461
PASCAL statistical procedures package (PSPP)
[AD-A141049] 18 p2921 N84-28524

FACTORIAL DESIGN
On the performance of two-stage group screening experiments
[AD-A131970] 03 p0428 N84-12807
Redesign of cargo mobility containers
[AD-A137396] 10 p1424 N84-19312
Pairwise balanced latin squares should always be used for within-subjects designs
[AD-A137283] 10 p1569 N84-20282
Experimental design: Review and comment
[AD-A139268] 14 p2218 N84-24309
Research on factor screening in computer simulation
[AD-A139825] 15 p2392 N84-25353
Injection of drag reducing additives into turbulent water flows: Results from factorial design
[AD-A141675] 19 p3024 N84-29177
The effect of spatial, spectral and radiometric factors on classification accuracy using thematic mapper data
[NASA-TM-85995] 20 p3227 N84-30510
Fleet project team participation in major aviation training device development, acquisition and support
[AD-A144182] 24 p3857 N84-34452
A technique to approximate complex computer models: An approximation of the Teisberg Model
[AD-P003855] 24 p3940 N84-34940

FACTORIES
U INDUSTRIAL PLANTS

FACTORIZATION
Two dimensional linear prediction models. Part 1. Spectral factorization and realization
[AD-A130954] 02 p0260 N84-11833
Solution of sparse underdetermined systems of linear equations
[DE83-016460] 02 p0263 N84-11853
Problems at the interface between perturbative and nonperturbative quantum chromodynamics
[DE84-002375] 06 p0926 N84-16018
On the weak finite stochastic realization problem
[MC-BW-184/83] 07 p1067 N84-16932
Computational methods in number theory, part 1
[MATH-CENTRE-TRACTS-154-PT-1] 08 p1223 N84-17990
Factorization algorithms of exponential order 08 p1224 N84-17994
Analysis and comparison of some integer factoring algorithms 08 p1224 N84-17995
Factorization of polynomials 08 p1224 N84-17998
Quadratic fields and factorization 08 p1225 N84-18002
Factorization using the quadratic sieve algorithm
[DE84-004140] 09 p1379 N84-19010
Factorization using the quadratic sieve algorithm
[DE84-004996] 10 p1572 N84-20299
Generalization of the numerical Schwarz algorithm
[DE84-003735] 11 p1716 N84-21191
Factoring multivariate integral polynominals
[MC-IW-229/83] 13 p2034 N84-23190
Factoring multivariate integral polynomials, part 2
[MC-IW-230/83-PT-2] 13 p2034 N84-23191
Polynomial factorization by root approximation
[MC-IW-242/83] 13 p2035 N84-23201
New very large amicable pairs
[MC-NW-153/83] 14 p2215 N84-24303
Factoring multivariate polynomials over algebraic number fields
[MC-IW-233/83] 14 p2215 N84-24305
Updating LU factorizations for computing stationary distributions
[DE84-007566] 15 p2400 N84-25402
An efficient approximate factorization implicit scheme for the equations of gasdynamics
[NASA-TM-85957] 19 p3082 N84-29556
The factorization method for two points boundary value problems for ODE's and its relation to the finite difference method
[AD-A141829] 19 p3088 N84-29604
Element-by-element solution procedures for nonlinear structural analysis 21 p3420 N84-31694
Usual initial and final state effects in quantum chromodynamics
[DE84-010422] 21 p3495 N84-32148
High-order sparse factorization methods for elliptic boundary value problems
[DE84-012582] 22 p3648 N84-33122
BGRID: A block-structured grid generation code for wing sections
[NASA-CR-166317] 23 p3814 N84-34187

FACULAE
Three dimensional structure and time development of radio emission from solar active regions
[AD-A126640] 07 p1093 N84-17110
Facular limb-darkening functions for irradiance modeling 17 p2778 N84-27638
Ground-based measurements of solar irradiance variations 17 p2778 N84-27639
The NOAA-ERL-ARL solar UV radiation and climate research project program description
[PB84-183292] 20 p3319 N84-31070
The shape of the Sun 21 p3526 N84-32334
Rotational modulation of spots and plages on RSCVn stars 24 p3978 N84-35196

FADDEEV EQUATIONS
Minimal unitary (covariant) scattering theory
[DE83-014896] 03 p0435 N84-12849
Covariant theory with a confined quantum
[DE83-014897] 03 p0435 N84-12850

FADING
NT SELECTIVE FADING
NT SIGNAL FADING
Generalized list detection for coded MFSK/FH signaling on ading and jamming channels
[AD-A130199] 01 p0063 N84-10414
Height profile of the field strength of reception by multipath propagation in the cm wave range
[FI-455-TBR-75] 19 p3010 N84-29081

FAIL-SAFE SYSTEMS
Design conditions for fail safe quenching of a high current density superconducting solenoid with a shorted secondary circuit
[LBL-14859] 01 p0069 N84-10449

FAILURE
NT BURNTHROUGH (FAILURE)
NT ENGINE FAILURE
NT STRUCTURAL FAILURE
NT SYSTEM FAILURES
Electromagnetic forces related to flash-lamp failures in the Nova/Novette amplifiers
[DE83-016524] 02 p0227 N84-11491
Prediction of hydraulic pump failures through wear debris analysis
[AD-A131386] 02 p0229 N84-11503
The evolution and practical applications of failure modes and effects analyses
[AD-A131358] 02 p0272 N84-11778
Development in reliability models and methods
[DE83-014683] 03 p0385 N84-12511
An empirically developed Fourier series model for describing software failures
[AD-A132739] 05 p0729 N84-14787
Breakdown processes in wire chambers, prevention and rate capability 06 p0912 N84-15923
Use of shear lag for composite microstress analysis - rectangular array
[AD-A134165] 07 p0967 N84-16267
Environmental factors as a source of failure in integrated circuits 08 p1168 N84-17604
Program for the analysis of fault trees
[AD-A134746] 08 p1213 N84-17910
A Bayesian explanation of an apparent failure rate paradox
[AD-A134748] 08 p1223 N84-17987
Preventive maintenance intervals for components of the F-15/F100 aircraft engine
[AD-A135637] 09 p1249 N84-18156
The role of hydrogen in the stress corrosion failure of high strength Al-Zn-Mg alloys
[AD-A136212] 09 p1284 N84-18388
Fundamental approach to design and prediction of performance of forming tools 09 p1294 N84-18453
Effects of assuming independent component failure times, if they are actually dependent, in a series system
[AD-A136567] 09 p1327 N84-18667
Reliability modeling of critical electronic devices
[AD-A135705] 09 p1328 N84-18669
Exploration of dose-response techniques with some applications to a simulation problem
[AD-A138029] 12 p1880 N84-22252
System safety study of minimum TCAS II (Traffic Alert and Collision Avoidance System)
[AD-A138674] 13 p1929 N84-22548
On system diagnosis with multivalued test outcomes
[AD-P002375] 14 p2195 N84-24166
Measurement of hydrogen in high strength steels using the barnacle electrode
[AD-A139655] 15 p2297 N84-24784
Intrinsic mechanisms of multi-layer ceramic capacitor failure
[AD-A141050] 18 p2834 N84-27988
Applications of the scanning electron microscope to concrete failure (Axial, biaxial, and dynamic)
[AD-A141788] 19 p3036 N84-29256
On failure modeling
[AD-A141760] 19 p3087 N84-29600
Intergranular failures of Alloy 600 in high temperature caustic environments
[DE84-010890] 20 p3155 N84-30032
Operator performance on flat-panel displays with line and cell failures
[AD-A142340] 20 p3265 N84-30716
Interdependence of equivalent steady stress, crack growth and failure on sequence and amplitude of irregular loading
[AD-A142951] 21 p3422 N84-31707
Laboratory experience with voltage breakdown 22 p3583 N84-32693
Breakdown of organic insulators 22 p3583 N84-32694
An entropy maximum principle and instantaneous failure statistics
[AD-A143299] 22 p3607 N84-32851
Artificial intelligence theory and reconfigurable control systems
[AD-A143766] 23 p3817 N84-34203
Sequential decision models in reliability
[AD-A144181] 24 p3911 N84-34770

FAILURE ANALYSIS
Electrical resistances of molten alloys of iron containing carbon, boron and phosphorus
[BLL-M-35214-(5828.4)] 01 p0041 N84-10263
Metallurgical investigation of a cracked low-pressure stem-turbine shaft from an electric utility
[DE83-902304] 01 p0045 N84-10292
Time-dependent behavior of high-strength concrete sustained compressive stresses
[PB83-227041] 01 p0060 N84-10391
Heat checking in the contact zone of a face seal: A three-dimensional model of a single moving asperity
[AD-A130756] 01 p0079 N84-10513
Advanced Gas Turbine (AGT): Power-train system development
[NASA-CR-168056] 01 p0089 N84-10581
Probabilistic assessment of weld quality in steel piping under seismic conditions
[DE83-012053] 01 p0091 N84-10591
FINDS: A fault inferring nonlinear detection system. User's guide
[NASA-CR-172199] 02 p0176 N84-11156
The evolution and practical applications of failure modes and effects analyses
[AD-A131358] 02 p0272 N84-11778
Review of aircraft crash structural response research
[AD-A131696] 03 p0331 N84-12160
Replacement of PBNA in HB and HC polymers used in SRM propellant and liner
[NASA-CR-170936] 03 p0355 N84-12311
Failure processes in elastomers at or near a rigid spherical inclusion
[AD-A132060] 03 p0356 N84-12314
A real-time implementation of an advanced sensor failure detection, isolation, and accommodation algorithm
[NASA-TM-83553] 04 p0477 N84-13140
An empirically developed Fourier series model for describing software failures
[AD-A132739] 05 p0729 N84-14787
Tornado autopilot measures to ensure survivability after failures 06 p0777 N84-15094
Analysis of interlaminar stresses in thick composite laminates with and without edge delamination
[NASA-TM-85738] 06 p0798 N84-15201
Status of fiber reinforced materials 06 p0799 N84-15209
Measures against errors in the building process
[NRC/CNR-TT-2067] 06 p0814 N84-15295
Integrated circuit failure mechanism detected by IMMA 06 p0815 N84-15305
An evaluation of Techroll seal flexible joint material 06 p0929 N84-16037
Reliability issues in active control of large flexible space structures
[NASA-CR-175341] 07 p0964 N84-16248
Use of shear lag for composite microstress analysis - rectangular array
[AD-A134165] 07 p0967 N84-16267
Size effect and strength variability of unidirectional composites
[AD-A134171] 07 p0967 N84-16268
Application of kinetic fracture mechanics to life prediction for polymeric materials
[DE84-003002] 07 p0979 N84-16347
Multistate reliability
[AD-A134589] 07 p1013 N84-16572
The dynamics of software development project management: An integrative systems dynamic perspective
[NASA-CR-175342] 07 p1054 N84-16824
Redundancy relations and robust failure detection
[NASA-CR-173252] 07 p1058 N84-16854
Statistical trend analysis methodology for rare failures in changing technical systems
[JUEL-SPEZ-215] 07 p1067 N84-16928
Sortie duration and helicopter component failures (an empirical study)
[AD-A134745] 08 p1095 N84-17122
A reliability and failure mode analysis of celestial training device microcomputers employed by SAC and MAC
[AD-A135003] 08 p1209 N84-17885
Reconfigurable multivariable control law for commercial airplane using a direct digital output feedback design
[NASA-TM-85759] 09 p1257 N84-18206
Sputtering phenomena in ion thrusters
[NASA-CR-168172] 09 p1274 N84-18322
Hygrothermal effects in continuous fibre reinforced composites. Part 3: Mechanical properties 1 - static tests
[AD-A135767] 09 p1276 N84-18332
Failure mode prediction analysis using the Reliability Information Software (RIF) --- spacecraft components 09 p1295 N84-18463
The strength and behavior of steel fiber-reinforced concrete under combined tension-compression loading
[AD-A136124] 09 p1334 N84-18708
Program ERROR
[PB84-128081] 09 p1370 N84-18946
Flight service evaluation of composite components on the Bell helicopter model 206L, flight service report
[NASA-CR-172296] 10 p1452 N84-19479
Repeatability of mixed-mode adhesive debonding
[NASA-TM-85753] 10 p1464 N84-19565
Techniques for predictive maintenance in industrial installation and failure diagnostic 10 p1503 N84-19824

Mechanical signature analysis
10 p1505 N84-19843
Implementation of a reliability shorthand on the Apple 2(+) microcomputer
[AD-A136778] 10 p1557 N84-20203
Systems approach to measuring short-duration acceleration transients
[AD-P002690] 11 p1659 N84-20825
Evaluation of adhesive materials for bonded sheath cable designs 11 p1721 N84-21226
Fracture of aluminum in uniaxial and biaxial extension at 473-77 deg K 12 p1783 N84-21635
A survey of macroscopic failure criteria for composite materials
[AD-A138091] 12 p1789 N84-21670
On the genesis of reliability models
[ARL-STRUC-REPT-393] 12 p1824 N84-21889
Reliability assurance using test structures, phase 2 — MOS testing
[ESA-CR(P)-1827-VOL-1] 12 p1825 N84-21894
Reliability assurance using test structures, phase 3 — MOS testing
[ESA-CR(P)-1827-VOL-2] 12 p1825 N84-21895
Field test experience 12 p1838 N84-21984
UH-60 shoulder harness lead-in strap failure analysis
[AD-A138014] 12 p1867 N84-22170
The implementation and use of Ada on distributed systems with high reliability requirements
[NASA-CR-175413] 12 p1876 N84-22228
Ceramic-to-metal bonding for pressure transducers
[NASA-CR-173500] 13 p1963 N84-22753
An assessment of the reliability of edge connectors — circuit boards
[ERA-82-22] 13 p1985 N84-22888
Factors influencing thermomechanical failure of face seals, 3
[AD-A138546] 13 p1997 N84-22961
Teardown analysis of a ten cell bipolar nickel-hydrogen battery
[NASA-TM-83618] 13 p2008 N84-23026
Central Demand Data Base (CDDB) End Item Code (EIC)
[AD-P002807] 13 p2059 N84-23353
Aircraft accident report. Eastern Air Lines, Incorporated, Lockheed L-1011, N334EA, Miami International Airport, Miami, Florida, May 5, 1983
[NTSB-AAR-84-04] 14 p2103 N84-23613
Contingency power concepts for helicopter turboshaft engine
[NASA-TM-83679] 14 p2109 N84-23648
Reconfigurable digital control laws for the A-7D DIGITAC 2 aircraft with failed primary control surfaces
[AFIT/GE/EE/82D-59] 15 p2254 N84-24535
Sensor failure detection for jet engines using analytical redundance
[NASA-TM-83695] 15 p2262 N84-24585
Analysis of symmetric reinforcement of quasi-isotropic graphite-epoxy plates with a circular cutout under uniaxial tensile loading
[AD-A139998] 15 p2285 N84-24715
Safety recommendation: Cessna Model 402C airplane, September 5, 1983, Tampa International Airport, Tampa, Florida 16 p2444 N84-25680
Tensile fracture of ductile materials
[NASA-CR-173607] 16 p2464 N84-25792
Deposition stress effects on thermal barrier coating burner rig life
[NASA-TM-83670] 16 p2470 N84-25830
Science of adhesion
[PB84-176734] 16 p2473 N84-25852
Materials, Processes and Testing Laboratory. Summarizing module performance at MIT Lincoln Laboratory experimental photovoltaic test sites, 1977 - 1982
[DOE/ET-20279/188] 16 p2512 N84-26122
Failure times and optimal stopping rules of generalized shock models 16 p2552 N84-26372
Failure Identification Module (FIM) for digital control systems — avionics 17 p2586 N84-26573
Lufthansa German Airlines experience with cabin and cockpit windows of Boeing 707, 727, 737, 747, Douglas DC10 and Airbus A300
[AD-P003226] 17 p2596 N84-26639
Material damage and structural instability analysis: Local and global stationary values of the strain energy density function 17 p2678 N84-27057
On coupling of renewal processes with use of failure rates
[CTH-MATH-1983-27] 17 p2760 N84-27530
Managing distributed databases in partitioned networks 17 p2772 N84-27599
The role of chemical bonding in adhesion
[AD-A140937] 18 p2818 N84-27891
Friction and wear characteristics of molecular compound classes from lubricating base oils. Part 1: Separation and chemical characterization
[PB84-167741] 18 p2820 N84-27904
Inspection of products for reliability indicators
18 p2824 N84-27926
Theoretical calculations of pressure vessel failure frequencies for Sizewell B transients
[AERE-R-11196] 18 p2854 N84-28125
Hygrothermomechanical fracture stress criteria for fiber composites with sense-parity
[NASA-TM-83691] 19 p2985 N84-28918
Causes and prevention of structural materials failures in naval environments
[AD-A141560] 19 p2994 N84-28972
Testing and failure analysis to improve screening techniques for hermetically sealed metallized film capacitors for low energy applications
[NASA-CR-162071] 19 p3011 N84-29088
Structures and Dynamics Division research and technology plans for FY 1894 and accomplishments for FY 1982
[NASA-TM-85828] 19 p3034 N84-29245
Mode 2 fatigue crack growth specimen development
[NASA-TM-83722] 19 p3034 N84-29248
Determination of failure characteristics of materials and structures
[AD-A142310] 19 p3037 N84-29262
Fracture initiation in glass-reinforced plastics under impact compression
[OUEL-1516/84] 19 p3037 N84-29265
Mechanisms of intergranular failures in Alloy 600 in high temperature environments
[DE84-010514] 20 p3155 N84-30033
Inference based on ranks with multiple failure time or grouped survival data
[MATHS-RES-177] 20 p3200 N84-30324
Fault management 20 p3264 N84-30709
Failure analysis of plasma-sprayed thermal barrier coatings
[NASA-TM-83777] 21 p3365 N84-31347
The 100 area diesel performance data
[DE84-011136] 21 p3414 N84-31648
A method for the combination of stochastic time varying load effects 21 p3417 N84-31669
A data acquisition and analysis system for fiber creep testing
[DE84-012654] 21 p3422 N84-31709
Safety and deterministic failure analyses in high-beta D-D Tokamak reactors
[DE84-012693] 21 p3500 N84-32185
Structural performance of orthogonal tetrahedral truss Space-Station configurations
[NASA-TM-86260] 22 p3542 N84-32422
Failure analysis of a graphite/epoxy laminate subjected to bolt bearing loads
[NASA-TM-86297] 22 p3544 N84-32436
Hygrothermal effects on mechanical behavior of graphite/epoxy laminates beyond initial failure
[NASA-TM-86001] 22 p3544 N84-32438
Probabilistic models of the stress-rupture of composite materials: Summary
[DE84-013477] 22 p3545 N84-32441
Development of shearography for nondestructive testing of highway structure
[PB84-187244] 22 p3565 N84-32577
Hot-spot heating in central-station arrays
22 p3582 N84-32686
Hot-spot investigations of utility scale panel configurations 22 p3582 N84-32687
Materials testing of the IUS techroll seal material
[NASA-TM-86462] 22 p3604 N84-32829
Computer system for fiber creep testing
[DE84-014453] 22 p3612 N84-32885
Compression failure mechanisms in unidirectional composites
[NASA-TM-85834] 23 p3711 N84-33523
Evaluation of the effects of stress state and interfacial properties on the behavior of advanced metal matrix composites
[AD-A143911] 23 p3711 N84-33525
Tricresyl phosphate retention by bearing retainer and reservoir materials
[AD-A143842] 23 p3724 N84-33598
High rate discharge studies of Li/SO2 batteries
23 p3737 N84-33680
Ni-Cd battery life expectancy in geosynchronous orbit
23 p3738 N84-33687
Failure analysis of nickel-hydrogen cell subjected to simulated low Earth orbit cycling
23 p3740 N84-33703
R-35 computer shortcomings
24 p3961 N84-35080

FAILURE MODES
The engineering significance of defects in composite structures 01 p0035 N84-10222
Fatigue-crack growth behavior in a nitrogen-strengthened high-manganese steel at cryogenic temperatures
[DE83-016619] 02 p0195 N84-11269
The evolution and practical applications of failure modes and effects analyses
[AD-A131358] 02 p0272 N84-11778
Multiplane finite element method: Applications to fiber reinforced material 03 p0348 N84-12261
Calculation of the life of components of metallurgical equipment from the parameter of failure probability
[BLL-M-35351-(5828.4F)] 04 p0545 N84-13594
Direct shear failure in reinforced concrete beams under impulsive loading
[AD-A133666] 05 p0693 N84-14551
An evaluation of Techroll seal flexible joint material
06 p0929 N84-16037
Failure mode prediction analysis using the Reliability Information Software (RIF) — spacecraft components
09 p1295 N84-18463
A pseudo-elastic material damage model involving local stiffness change and crack growth
11 p1667 N84-20873
Testability of VLSI (Very Large Scale Integration) leakage faults in CMOS (Complementary Metal Oxide Semiconductor)
[AD-A138978] 13 p2047 N84-23281
Micro-elastohydrodynamic lubrication
15 p2341 N84-25053
Nature of formation of stopper defect in hoisting ropes
[BLL-M-35544-(5828.4)] 17 p2674 N84-27036
Investigation of accelerated stress factors and failure/degradation mechanisms in terrestrial solar cells
[NASA-CR-173757] 18 p2870 N84-28222
Solar tests of aperture plate materials for solar thermal dish collectors 18 p2872 N84-28233
Mode 2 fatigue crack growth specimen development
[NASA-TM-83722] 19 p3034 N84-29248
Residual-strength tests of L-1011 vertical fin components after 10 and 20 years of simulated flight service 20 p3145 N84-29970
Materials testing of the IUS techroll seal material
[NASA-TM-86462] 22 p3604 N84-32829
Deformation and failure of titanium aluminide
23 p3709 N84-33510
Evaluation of the effects of stress state and interfacial properties on the behavior of advanced metal matrix composites
[AD-A143911] 23 p3711 N84-33525
A problem of determining the optimal policy for maintenance systems with reserve machines and a variable number of servers
[INPE-3197-TDL/173] 23 p3832 N84-34310
Effect of stacking sequence on fatigue life of composite materials 24 p3958 N84-35058

FAINT OBJECT CAMERA
Active thermal control of the faint object camera
10 p1442 N84-19419
Accurate thermal control of enclosures of optical payloads — faint object camera, Hipparcos
10 p1447 N84-19457

FAIRCHILD MILITARY AIRCRAFT
U MILITARY AIRCRAFT

FAIRINGS
Flight service evaluation of Kevlar-49 epoxy composite panels in wide-bodies commercial transport aircraft
[NASA-CR-166065] 01 p0030 N84-10188
The study of an idealized wing/body junction
[AD-A139933] 15 p2257 N84-24559
Separation and staging mechanisms for the Indian SLV-3 launch vehicle 15 p2349 N84-25095

FALLING
Bibliography of coefficient of friction literature relating to slip type accidents — slipping accidents
[PB83-243626] 03 p0359 N84-12334

FALLING SPHERES
Topically classified bibliography on shapes of falling drops, drops in electric fields and related topics
[AD-A131134] 03 p0371 N84-12417
SNOW-ONE-A and B characterization measurements and data analysis
[AD-A141245] 18 p2890 N84-28345
Quick Deployment Vehicle (QDV)
[AD-D011060] 22 p3563 N84-32563
A probabilistic model for predicting the duration of levels of electromagnetic transmission in falling snow: Environmental research papers
[AD-A143318] 22 p3577 N84-32655

FALLOUT
Radioactivity levels in humid and dry fallout gathered in the last 20 years in some points of the Padana Valley (Italy)
[CISE-2069] 05 p0701 N84-14598
Airborne fallout monitoring
[FOA-A-40045-A3] 08 p1183 N84-17705

Airborne penetration of radioactive clouds
[AD-A135848] 09 p1361 N84-18894
Radiac survey instrumentation
[AD-A140084] 15 p2337 N84-25029

FAN BLADES
Research on aero-thermodynamic distortion induced structural dynamic response of multi-stage compressor blading
[AD-A133853] 05 p0632 N84-14151
Flutter of swept fan blades
[NASA-TM-83547] 07 p1015 N84-16587
Precision forging of front fan blades, abridged version
[BMFT-FB-T-83-205] 10 p1472 N84-19613
V/STOL model fan stage rig design report
[NASA-CR-174668] 14 p2106 N84-23629
Fan blade shake test results for the 40- by 80-foot/80- by 120-foot wind tunnel
[NASA-TM-85859] 17 p2618 N84-26753
Detailed flow measurements in casing boundary layer of 429-meter-per-second-tip-speed two-stage fan
[NASA-TP-2052] 19 p2966 N84-28795
A study of the cross flow fan
23 p3688 N84-33372
Subsonic/transonic stall flutter investigation of a rotating rig
[NASA-CR-174625] 23 p3695 N84-33417

FAN IN WING AIRCRAFT
Tandem fan applications in advanced STOVL fighter configurations
[NASA-TM-83689] 15 p2261 N84-24579

FANLIFT DEVICES
U LIFT FANS

FANS
End-wall boundary layer measurements in a two-stage fan 07 p0957 N84-16208

FAR FIELDS
Approximate formulas for the far fields and gain of open-ended rectangular waveguide
[PB83-233999] 02 p0212 N84-11384
Inverse free-electron laser accelerator
[DE83-016370] 02 p0228 N84-11493
The effect of wing tip devices on the far-field wake of a Paris Aircraft 03 p0326 N84-12131
A review of source location/assessment techniques — aeroacoustics 06 p0767 N84-15029
Large amplitude waves generated by an explosive mechanism
[MRL-R-905] 08 p1155 N84-17524
The effect of the artificial far field boundary on a finite different approximation of the Navier-Stokes equations for a compressible fluid
[AD-A135152] 08 p1157 N84-17536
Transverse mode formation in positive branch unstable resonators
[AD-A136515] 09 p1322 N84-18635
Correcting feed displacements in a space fed lens antenna
[AD-A137702] 11 p1643 N84-20743
Buried antenna analysis at VHF. Part 1: The buried horizontal electric dipole
[AD-A138068] 12 p1806 N84-21774
Far field radiation patterns from open ended oversized circular waveguides and identification of multimode outputs of gyrotrons
[IPF-83-5] 12 p1911 N84-22454
Operational update to the RCS flow field of the space shuttle orbiter 13 p1942 N84-22626
New formulas that extend Norton's farfield elementary dipole equations to the quasi-nearfield range
[AD-A139057] 13 p2034 N84-23188
Effects of spacecraft reflections on RF interferometer position location accuracy
[NASA-CR-175244] 18 p2828 N84-27955
Computer analysis of phased array far-field patterns for non-symmetrical feed networks
[AD-P003502] 21 p3383 N84-31470
Conformal array analysis
[AD-P003504] 21 p3384 N84-31472
Antenna performance verification at launch site. A feasibility study on preflight performance testing of stripline slot arrays mounted on a rocket
[AD-A143266] 22 p3577 N84-32653
The correction of aberrations computed in the aperture plane of multifrequency microwave radiometer antennas
[NASA-TM-86090] 22 p3581 N84-32679
Studies of the electric field distribution in biological bodies: Experimental dosimetry at radio frequencies
[AD-A143507] 22 p3628 N84-32992
Time development of Cerenkov radiation
[AD-A143225] 22 p3653 N84-33155
Reducing grating lobes due to subarray amplitude tapering
[AD-A143644] 23 p3730 N84-33644

FAR INFRARED RADIATION
Far-infrared studies on superconductors and heat-capacity studies on liquid crystals
[DE84-001123] 05 p0756 N84-14957
Far Infrared Radiometric Spectrometer (FIRRS)
[AD-A133552] 06 p0847 N84-15527
Pure rotational spectroscopy of SO2 using fix line far-infrared lasers
[DE84-001427] 07 p0972 N84-16301
Tunable far infrared semiconductor sources
[AD-A137777] 11 p1647 N84-20767
A far-infrared laser study of small-area superconducting tunnel junctions
[AD-A137186] 11 p1744 N84-21383
Review of free electron laser theory and experiments
[DE84-007232] 13 p1996 N84-22954
Near millimeter wave action in n-GaAs
[AD-A138602] 13 p2042 N84-23252
Measurement of atmospheric transmission over long paths in the infrared spectral region
[AD-A139619] 15 p2368 N84-25209
Far infrared extinction coefficients of minerals of interest for astronomical observations 16 p2571 N84-26502
Far infrared supplement: Catalog of infrared observations
[NASA-RP-1119] 16 p2574 N84-26519
Catalog of infrared observations including: Bibliography of infrared astronomy and index of infrared source positions
[NASA-RP-1118] 16 p2574 N84-26520
Far-IR selected star formation regions
[NASA-TM-85955] 16 p2574 N84-26521
W3 North: Far-infrared and radio molecular observations
[NASA-TM-85961] 17 p2774 N84-27615
Infrared nonlinear processes in semiconductors
[AD-A141032] 18 p2840 N84-28649
Far infrared extinction coefficients of minerals of interest for astronomical observations 18 p2949 N84-28700
Detection of NH-2O-radicals by far-infrared laser magnetic resonance spectroscopy
[MPIS-6/1984] 20 p3151 N84-30010
Submillimeter wavelength survey of the galactic plane from l = -5 deg to l = +62 deg: Structure and energetics of the inner disk
[NASA-TM-86077] 20 p3319 N84-31089
Far infrared optical properties of WbSe3
[DE84-009223] 21 p3498 N84-32173
Studies of low-mass star formation with the large deployable reflector
[NASA-TM-85960] 21 p3524 N84-32328

FAR ULTRAVIOLET RADIATION
NT LYMAN ALPHA RADIATION
Coherent propagation and sum frequency generation into the vacuum ultraviolet
[AD-A130729] 01 p0066 N84-10428
Project for improved performance of radiometric standard detectors (110-360 nm)
[PB83-224014] 01 p0085 N84-10556
Studies of collisional and nonlinear radiative processes for development of coherent UV and XUV sources
[AD-A131837] 03 p0379 N84-12467
Vacuum ultraviolet photofragmentation of H2O and NO2: Laboratory studies and atmospheric applications
06 p0876 N84-15703
Investigations of vacuum ultraviolet and soft X-ray lasers
[AD-A140362] 16 p2497 N84-26024
The XUV/VUV free-electron laser oscillator
[DE84-011347] 20 p3193 N84-30279
Results from Astron satellite after one year in orbit
21 p3347 N84-31233
Theory of 4-wave mixing for VUV generation
[DE84-011663] 21 p3410 N84-31630
Nonthermal effects on the diagnostics of a collapsing gas shell Z-pinch
[DE84-009996] 21 p3502 N84-32199
Polynominal grating
[AD-D011090] 22 p3657 N84-33186
Search for emission lines in the gaseous halo of edge-on galaxies
[NASA-CR-173968] 23 p3838 N84-34349
Far UV excess and gas content of SO galaxies
24 p3971 N84-35144
The Seyfert 1 galaxy NGC 4593 (3). Very rapid variations of its far UV spectrum and their implications
24 p3971 N84-35147
UV-bright stars in galactic globular clusters, their far-UV spectra and their contribution to the globular cluster luminosity 24 p3974 N84-35164
Satellite observations of the extreme ultraviolet and far ultraviolet radiation fields 24 p3994 N84-35280

FARADAY EFFECT
Properties of manganese alloys for cryogenic engineering
[BLL-M-35127-(5828.4)] 01 p0040 N84-10251
Propagation effects on satellite systems at frequencies below 10 GHz, a handbook for satellite systems design, 1st edition
[NASA-RP-1108] 04 p0517 N84-13397
Current sensing in magnetic fusion experiments by Faraday rotation in single-mode optical fibers
[DE84-004326] 11 p1732 N84-21298
Graphite-ceramic RF Faraday-thermal shield and plasma limiter
[DE84-010960] 20 p3163 N84-30086

FARADAY ROTATION
U FARADAY EFFECT

FARM CROPS
NT CORN
NT COTTON
NT FRUITS
NT LEGUMINOUS PLANTS
NT RICE
NT SORGHUM
NT SPINACH
NT WHEAT
Analysis of the quality of image data acquired by the LANDSAT-4 Thematic Mapper (TM) of the Black Hills area, South Dakota
[E84-10041] 04 p0552 N84-13634
Center of Excellence for Applied Mathematical and Statistical Research in support of development of multicrop production monitoring capability
[E84-10062] 10 p1520 N84-19953
Fundamental remote sensing science research program. Part 1: Scene radiation and atmospheric effects characterization project
[NASA-TM-86078] 12 p1830 N84-21929
Comprehensive understanding for vegetated scene radiance relationships 12 p1830 N84-21933
Measurement and modeling of the optical scattering properties of crop canopies 12 p1831 N84-21934
Bidirectional spectral reflectance of Earth resources: Influence of scene complexity and atmospheric effects on remote sensing 12 p1833 N84-21946
Aggregating available soil water holding capacity data for crop yield models
[E84-10161] 17 p2710 N84-27253
On the SAR response of agricultural targets in a northern prairie environment 23 p3770 N84-33896

FARMLANDS
Relating spatial patterns in image data to scene characteristics 03 p0394 N84-12573
Information content of data from the LANDSAT 4 Thematic Mapper (TM) and multispectral scanner (MSS)
[E84-10034] 04 p0551 N84-13628
The use of thematic mapper data for land cover discrimination: Preliminary results from the UK SATMaP programme
[E84-10038] 04 p0551 N84-13631
Analysis of the quality of image data acquired by the LANDSAT-4 Thematic Mapper (TM) of the Black Hills area, South Dakota
[E84-10041] 04 p0552 N84-13634
Photo interpretation key to Michigan land cover/use
[E84-10048] 04 p0553 N84-13641
Analysis of data acquired by synthetic aperture radar over Dade County, Florida, and Acadia Parish, Louisiana
[E84-10067] 06 p0865 N84-15636
Classification and area estimation of land covers in Kansas using ground-gathered and LANDSAT digital data
[E84-10068] 06 p0865 N84-15637
An initial analysis of LANDSAT 4 Thematic Mapper data for the classification of agricultural, forested wetland, and urban land covers
[E84-10073] 07 p1020 N84-16620
Comparison of the information content of data from the LANDSAT 4 Thematic Mapper and the multispectral scanner
[E84-10081] 08 p1173 N84-17641
Reflectance modeling 12 p1830 N84-21931
Comprehensive understanding for vegetated scene radiance relationships 12 p1830 N84-21933
Preliminary evaluation of TM for soils information
20 p3216 N84-30427

FAST FOURIER TRANSFORMATIONS
The fast Fourier transform as a signal processing technique
[AD-A131011] 01 p0133 N84-10872
Detection of solar gravity mode oscillations
[NASA-CR-174469] 01 p0165 N84-11086
Efficiency of high-frequency ventilation as determined by nitrogen washouts: A model study
[AD-A131331] 02 p0265 N84-11745
ELF/VLF (Extremely Low Frequency/Very Low Frequency) long path pulse program for antennas of arbitrary elevation and orientation
[AD-A133876] 05 p0667 N84-14388

Comparison of arithmetic requirements for the PFA (Prime Factor Algorithm), WFTA (Winograd Fourier Transform Algorithm), SWIFT, MFFT (Mixed radix fast Fourier transform), FFT (Fast Fourier Transform) and DFT (Discrete Fourier Transform) algorithms
[AD-A133087] 05 p0738 N84-14847
Accurate efficient evaluation of cumulative or exceedance probability distributions directly from characteristic functions
[AD-A133703] 05 p0740 N84-14858
Validation methods for mathematical models of flexible satellite dynamics
[ESA-CR(P)-1794] 08 p1113 N84-17241
Transverse mode formation in positive branch unstable resonators
[AD-A136515] 09 p1322 N84-18635
A formal derivation of array implementations of FFT algorithms 09 p1400 N84-19144
Efficient algorithms for calculating shock spectra on general purpose computers 10 p1509 N84-19878
Effects of computer architecture on FFT (Fast Fourier Transform) algorithm performance
[AD-A138465] 12 p1878 N84-22237
Efficient computer architectures for computing discrete Fourier transforms
[AD-A138109] 12 p1881 N84-22258
Computation of radiation in stratified media by Fast Fourier Transform (FFT)
[AD-A138647] 13 p1982 N84-22869
Geometric interpretations of the Discrete Fourier Transform (DFT)
[NASA-TP-2332] 14 p2189 N84-24114
Implementation of the sign-logarithm arithmetic FFT
[AD-A139355] 15 p2396 N84-25373
Two-dimensional fast Fourier transforms in image processing
[AD-A139997] 15 p2398 N84-25390
Secondary pattern computation of an arbitrarily shaped main reflector
[NASA-TM-85527] 16 p2481 N84-25909
Digital analysis of pulse code modulated signals in telecommunications channels 16 p2483 N84-25922
Spectral averaging and low-frequency sampling modifications for the IQS 401 FFT (Fast Fourier Transform) spectrum analyzer
[AD-A141181] 18 p2834 N84-27990
Cloud cover typing from environmental satellite imagery. Discriminating cloud structure with Fast Fourier Transforms (FFT)
[NASA-CR-173727] 18 p2883 N84-28296
Spectral methods for compressible flow problems
[NASA-CR-172395] 20 p3279 N84-30816
A comparison of 2 acoustic parabolic transmission loss models for compatibility with the wavenumber technique in the determination of source depth
[AD-A143079] 21 p3492 N84-32128
Phase-only optical filter for use in an optical correlation system
[AD-D011093] 22 p3657 N84-33187
Pipelined digital SAR azimuth correlator using hybrid FFT-transversal filter
[NASA-CASE-NPO-15519-1] 24 p3893 N84-34651

FAST NEUTRONS
What can be learned with fast neutrons?
[DE83-015783] 01 p0144 N84-10948
Imaging of fast-neutron sources using solid-state track-recorder pinhole radiography
[DE84-001466] 05 p0685 N84-14504
Bone blood flow measured by (41)Ar clearance formed by (44)Ca(n,(-)) (41)Ar
[DE83-017600] 06 p0886 N84-15761
An investigation of lyolinescence techniques for application in radiation protection dosimetry
[PB83-263236] 19 p3053 N84-29373
Ion bombardment effects of the fatigue life of stainless steel under simulated fusion first wall conditions
[DE84-001300] 21 p3367 N84-31359
Neutron damage effects in AlGaAs/GaAs solar cells
[DE84-009448] 21 p3435 N84-31791

FAST NUCLEAR REACTORS
NT EXPERIMENTAL BREEDER REACTOR 2
NT LIQUID METAL FAST BREEDER REACTORS
Fuel Systems for compact fast space reactors
[DE84-006545] 14 p2223 N84-24343
EURDYN: Computer programs for the nonlinear transient analysis of structures submitted to dynamic loading. EURDYN (release 3) users' manual
[DE84-700988] 24 p3912 N84-34777

FASTENERS
NT ANCHORS (FASTENERS)
NT BOLTS
NT LOCKS (FASTENERS)
NT NUTS (FASTENERS)
NT PINS
NT RIVETS
NT SCREWS
NT WASHERS (SPACERS)
Evaluation of stress corrosion cracking characteristics of selected fastener systems in 7075-T6 aluminum
[AD-A132162] 04 p0499 N84-13272
Theoretical basis for design of thermal-stress-free fasteners
[NASA-TP-2226] 04 p0548 N84-13614
Tape joint design guidelines
[DE84-002052] 05 p0688 N84-14522
Mechanical fastener
[NASA-CASE-LAR-12738-2] 06 p0795 N84-15180
Use of small crack data to bring about and quantify improvements to aircraft structural integrity
[AD-A135012] 08 p1170 N84-17623
Applications for anaerobic adhesives, with particular reference to the replacement of conventional locking devices 09 p1291 N84-18433
Cold forming and upsetting in the fastener industry 09 p1293 N84-18445
Results of a study of residual stresses and fatigue crack growth in lugs with expanded holes
[NLR-MP-83024-U] 15 p2349 N84-25100
On improving the fatigue performance of a double-shear lap joint
[VFW-29/83-O] 16 p2561 N84-26431
Corrosion fatigue of high strength fastener materials in seawater
[NASA-CR-174677] 17 p2723 N84-27328
Fastener load tests and retention systems tests for cryogenic wind-tunnel models
[NASA-TM-85805] 19 p2993 N84-28964
Pivotal mono wing cruise missile with wing deployment and fastener mechanism
[AD-D011192] 24 p3853 N84-34436

FASTING
Sustained physical activity in diverse situations: Metabolic and hormone data 11 p1698 N84-21077

FATIGUE (BIOLOGY)
NT FLIGHT FATIGUE
NT MUSCULAR FATIGUE
Impact and vibration testing of a modified UH-1 crew seat
[AD-A130279] 01 p0117 N84-10760
Physical fitness as a moderator of cognitive degradation during sleep deprivation
[AD-A131962] 03 p0415 N84-12718
Experimental studies relating environmental lighting and flicker to visual fatigue in VDT operators
[DE83-016316] 03 p0419 N84-12738
Effects of acute cold exposure on submaximal endurance performance
[AD-A132581] 05 p0712 N84-14665
Ergo-ophthalmological aspects of the VDU: Visual strain and the blue light lesion
[DRIC-T-6921] 09 p1361 N84-18893
Choice of psychophysiological criterion to assess whole-body low-frequency vibration 15 p2376 N84-25255
Prolonged heavy vehicle driving performance: Effects of unpredictable shift onset and duration and convoy versus independent driving conditions
[AD-A139747] 15 p2384 N84-25298
A questionnaire assessment of estimated radiation effects upon military task performance
[AD-P003254] 18 p2905 N84-28421
Physical performance tests as predictors of task performance
[AD-P003257] 18 p2905 N84-28424
Factors affecting visual performance with stereoscopic television displays
[AD-P003362] 18 p2913 N84-28475
Ergonomic analysis of human operation of video terminal 21 p3454 N84-31918

FATIGUE (MATERIALS)
NT BENDING FATIGUE
NT METAL FATIGUE
NT STRUCTURAL STRAIN
NT THERMAL FATIGUE
NT VOLUMETRIC STRAIN
Aircraft fatigue, with particular emphasis on Australian operations and research
[AD-A131036] 01 p0009 N84-10051
Advanced fatigue damage development in graphite epoxy laminates
[AD-A130190] 01 p0031 N84-10194
Growth of delaminations under fatigue loading 01 p0033 N84-10208
Metallurgical investigation of a cracked low-pressure stem-turbine shaft from an electric utility
[DE83-902304] 01 p0045 N84-10292
Semielliptical cracks along holes in plates and lugs
[AD-A130786] 01 p0096 N84-10622
Advanced fatigue damage development in graphite epoxy laminates 02 p0187 N84-11216
A critical review of the short crack problem in fatigue
[AD-A131349] 02 p0231 N84-11516
Fatigue behavior of long and short cracks in wrought and powder aluminum alloys
[AD-A131324] 02 p0231 N84-11517
Fatigue-crack propagation in viscous environments
[DE83-011741] 02 p0232 N84-11520
Composite structural materials
[NASA-CR-174597] 03 p0347 N84-12257
Fatigue of fiber composites
[FFA-TN-1983-30] 03 p0348 N84-12260
Accelerated compatibility testing using corrosion fatigue techniques
[DE83-015104] 03 p0353 N84-12296
A review of Australian investigations on aeronautical fatigue during the period April 1981 to March 1983
[AD-A130968] 03 p0388 N84-12532
Inference of fatigue-crack closure stresses from ultrasonic-transmission measurements
[DE83-017684] 03 p0390 N84-12547
Evaluation of the crack gage as an advanced individual aircraft tracking concept 03 p0391 N84-12551
Fiber composite materials research in the UK: Assessment report
[AD-A132386] 04 p0492 N84-13226
Creep fatigue of low-cobalt superalloys: Waspaloy, PM U 700 and wrought U 700
[NASA-CR-168260] 04 p0498 N84-13265
Tensile and low-cycle fatigue measurements on cross-rolled tungsten at 1505 K
[DE84-000805] 04 p0499 N84-13273
Improving the fatigue performance of thick aluminum alloy bolted joints by hole cold-expansion and the use of interference-fit steel bushes
[ARL-STRUC-NOTE-486] 04 p0543 N84-13578
Effects of crack closure on ultrasonic transmission
[DE83-018073] 04 p0546 N84-13599
Strain analysis of thin composites with Moire method
[NAL-TR-754] 04 p0548 N84-13612
The effects of environment and dwell on high temperature fatigue crack growth of 2 1/4 Cr - 1 Mo steel
[AD-A132147] 04 p0549 N84-13617
Detection of closed internal fatigue cracks
[DE83-017686] 04 p0549 N84-13620
Bending fatigue of a particulate SiC/Al 6061 metal matrix composite
[AD-A134108] 05 p0653 N84-14293
Deformation and fatigue of aircraft structural alloys
[AD-A133947] 05 p0654 N84-14297
Complexities of high temperature metal fatigue: Some steps toward understanding
[NASA-TM-83507] 05 p0691 N84-14541
Use of the WEST-1 wind turbine simulator to predict blade fatigue load distribution
[NASA-TM-83532] 05 p0699 N84-14586
Static and dynamic stiffness reduction of graphite/epoxy composite laminates under fatigue loading 06 p0797 N84-15194
The effect of environment on the mechanical behavior of AS/3501-6 graphite/epoxy material
[AD-A133331] 06 p0799 N84-15205
Fatigue damage-strength relationships in composite laminates. Volume 1
[AD-A133485] 06 p0799 N84-15206
Biaxial fatigue of graphite/epoxy + or - 45 sub s tubes 06 p0799 N84-15210
Investigation of fatigue crack-growth resistance of aluminum alloys under spectrum loading
[AD-A133206] 06 p0806 N84-15251
Theoretical and software considerations for nonlinear dynamic analysis
[NASA-CR-174504] 06 p0858 N84-15589
General method for fatigue analysis of vertical axis wind turbine blades
[DE84-002654] 06 p0861 N84-15613
Miniature center-cracked-tension specimen for fatigue crack growth testing
[DE84-001470] 06 p0862 N84-15615
Material selection and structural design for safety and durability
[NLR-MP-82023-U] 06 p0862 N84-15617
Fatigue damage of an annealed 0.45 percent C steel under fully-reversed tension-compression cycling 07 p0963 N84-16367
Cryogenic Fluid Management Experiment (CFME) trunnion verification testing
[NASA-CR-168310] 07 p0985 N84-16381
The use of ion implantation for materials processing
[AD-A134457] 07 p1072 N84-16963
Microstructural and mechanical aspects of fatigue crack initiation and growth in a 2048 aluminum alloy 08 p1130 N84-17347
The change of the mechanical properties of steel strip in processing lines
[BMFT-FB-T-83-178] 08 p1135 N84-17383

Three-dimensional measurements of fatigue crack closure
[NASA-CR-175366] 08 p1169 N84-17616
Entropy production during fatigue as a criterion for failure. The critical entropy threshold: A mathematical model for fatigue
[AD-A134767] 08 p1171 N84-17628
Study of thermal fatigue of soldered photovoltaic cells by thermal resistance measurement
[DE84-003764] 08 p1181 N84-17692
Hygrothermal effects in continuous fibre reinforced composites. Part 4: Mechanical properties 2 - fatigue and time-dependent properties
[AD-A135768] 09 p1276 N84-18333
Fatigue-induced and time-dependent changes in thermomechanical properties of hybrid composite laminates
[PB84-126333] 09 p1277 N84-18336
The high temperature viscoplastic fatigue behavior of IN-100 using the Bodner-Partom flow law
[AD-A135867] 09 p1282 N84-18375
Effect of the overload ratio on fatigue growth behavior in Ti-6Al-4V
[AD-A136027] 09 p1283 N84-18381
Fatigue crack propagation in Ti-Mn alloys: The role of the Bauschinger effect
[AD-A136036] 09 p1283 N84-18383
Development of fatigue and crack propagation design and analysis methodology in a corroeive environment for typical mechanically-fastened joints. Volume 1: Phase I documentation
[AD-A136414] 09 p1331 N84-18691
Development of fatigue and crack propagation design and analysis methodology in a corroeive environment for typical mechanically-fastened joints. Volume 2: State-of-the-art assessment
[AD-A136415] 09 p1331 N84-18692
Fatigue testing of OTEC cold water pipe glass-reinforced plastic materials
[PB84-128958] 09 p1335 N84-18715
Fracture, longevity (fatigue), dynamics, and aeroelasticity of composite structures
[AD-A137047] 10 p1452 N84-19486
Effects of fatigue on the G.P. zones in Al-Zn alloys
[AD-A137518] 10 p1459 N84-19530
Fatigue and fracture toughness in aluminum
[NLR-MP-82058-U] 10 p1463 N84-19556
Repeatability of mixed-mode adhesive debonding
[NASA-TM-85753] 10 p1464 N84-19565
Criteria for accelerated random vibration tests with non-linear damping 10 p1513 N84-19902
Helicopter fatigue design guide
[AD-A136963] 11 p1605 N84-20513
AGARD Highlights, September 1982
[AGARD-HIGHLIGHTS-82/2] 12 p1763 N84-21496
The corrosion-fatigue cooperative testing programme 12 p1763 N84-21497
Elevated temperature biaxial fatigue
[NASA-CR-173473] 12 p1826 N84-21905
The fatigue of powder metallurgy alloys
[AD-A138714] 13 p1960 N84-22738
Crack layer theory
[NASA-CR-174634] 13 p2001 N84-22980
Fatigue damage - strength relationships in composite laminates, volume 2
[AD-A139241] 14 p2120 N84-23704
A study of fatigue crack propagation in powder metallurgy hot isotatically pressed nickel-base alloy
[AD-A139290] 14 p2127 N84-23754
The conjoint action of high and low cycle fatigue
[AD-A139205] 14 p2158 N84-23927
AGARD bulletin: Meetings, publications, membership
[AGARD-BUL-84/1] 14 p2252 N84-24527
Statistical approach to damage tolerance assessment
[SNIAS-832-111-112] 15 p2260 N84-24575
Delamination growth in notched graphite/epoxy laminates under compression fatigue loading
[FFA-TN-1983-57] 15 p2284 N84-24713
Effects of curing stress on intralaminar cracking in graphite-epoxy laminates 15 p2308 N84-24846
Fatigue damage and crack growth in random short-fiber reinforced composites 15 p2308 N84-24847
Statistical fatigue and residual strength degradation model for glass polyester laminates 15 p2309 N84-24857
Status of understanding for bearing materials 15 p2342 N84-25060
Gaussian quadrature formulae for tetrahedronal regions
[ISD-307] 15 p2396 N84-25377
Corrosion research in support of Canadian forces aircraft 16 p2435 N84-25622
Fatigue crack growth rate data for aluminum alloy 6061-t651 plate
[AD-A140325] 16 p2469 N84-25624
Factors that affect the fatigue strength of power transmission shafting
[NASA-TM-83606] 16 p2498 N84-26029
Creep-low cycle fatigue interaction of 2 1/4 Cr 1 Mo steel at high temperature 16 p2501 N84-26051
Review of aeronautical fatigue investigations in the Netherlands during the period March 1981 - February 1983
[AD-B082166] 16 p2502 N84-26057
Residual stresses in long double-layer cylinder under nonsteady cooling 17 p2651 N84-26953
Design of power-transmitting shifts
[NASA-RP-1123] 17 p2675 N84-27041
Corrosion fatigue crack growth rates of weldments in Q1N steel
[AD-A141261] 18 p2814 N84-27864
Three-dimensional measurements of fatigue crack closure
[NASA-CR-173679] 18 p2852 N84-28110
Experimental stress analysis and fatigue tests of five 12-in NPS ANSI Standard B169 tees
[DE84-010280] 18 p2853 N84-28117
B-scan displays of ultrasonic time-of-flight diffraction tests of compact tension specimens
[AERE-R-11010] 18 p2854 N84-28126
Mechanisms of microstructurally-influenced fatigue crack growth in dual-phase steels
[DE84-008491] 19 p2995 N84-28979
The effect of thickness on fatigue crack propagation in 7475-T731 aluminum alloy sheet
[NASA-CR-172367] 19 p3035 N84-29251
Development of GAP-TAGN-PEG propellants. Part 1: Study of ingredients 20 p3143 N84-29954
Fatigue behavior of long and short cracks in wrought and powder aluminum alloys
[AD-A142609] 20 p3153 N84-30024
Aeronautical Materials (selected articles)
[AD-A139952] 20 p3159 N84-30063
Influence of temperature on the Delta K sub th and da/dN of LY-12CS aluminum alloy 20 p3160 N84-30067
Preliminary investigation of fatigue crack propagation of 30CrMnSiA steel in salt spray corrosion conditions 20 p3160 N84-30068
The effects of non-metallic inclusions in steel on fatigue properties 20 p3160 N84-30070
Characteristics of initial period fatigue crack propagation of metals and its affecting factors 20 p3160 N84-30071
Near-threshold fatigue crack propagation: A perspective on the role of crack closure
[DE84-009669] 20 p3180 N84-30202
Fatigue and Fracture Branch: A compendium of recently completed and on-going research projects
[NASA-TM-85825] 20 p3201 N84-30331
A new optical technique for rapid determination of creep and fatigue thresholds at high temperature
[AD-A142675] 20 p3202 N84-30341
USSR report: Physics and mathematics
[JPRS-UPM-84-001] 20 p3285 N84-30862
Corrosion fatigue of an Al-Zn-Mg alloy and an Al-Mg-Li alloy 21 p3364 N84-31339
Evaluation of the effect of crack closure on fatigue crack growth of simulated short cracks
[NASA-TM-83778] 21 p3365 N84-31348
Characterization of thermo-mechanical fatigue 21 p3418 N84-31673
Creep-fatigue interactions in advanced eutectic superalloys
[AD-A142872] 21 p3422 N84-31705
Crack tip field and fatigue crack growth in general yielding and low cycle fatigue
[NASA-CR-174686] 22 p3554 N84-32503
On the mechanics of fatigue crack growth due to contact loading 22 p3608 N84-32859
Retardation analytical model to extend service life
[NASA-CR-173891] 22 p3608 N84-32862
Fatigue behavior of longitudinal transverse stiffener intersection
[PB84-202092] 22 p3612 N84-32887
Study of size factor effect on low-cycle fatigue of aluminum alloys 23 p3706 N84-33492
Portable electromagnetic flaw detector for metal products 23 p3706 N84-33493
Effect of stress concentration on fatigue resistance of heat-resistant nickel alloys 23 p3707 N84-33503
Evaluation of the effects of stress state and interfacial properties on the behavior of advanced metal matrix composites
[AD-A143911] 23 p3711 N84-33525
The effect of internal hydrogen on near-threshold fatigue crack propagation in iron base systems 23 p3717 N84-33560
Analysis of the double overlap fatigue specimen
[ARL-STRUC-REPT-402] 23 p3760 N84-33833
Mechanistic methodology for airport pavement design with engineering fabrics. Volume 1: Theoretical and experimental base
[DOT/FAA/PM-84-9.1] 24 p3857 N84-34450
Processing the results of fatigue testing of structural materials damaged by corrosion 24 p3873 N84-34541
Modelling for fatigue crack growth prediction in Mirage IIIO frame 26
[ARL-STRUC-REPT-401] 24 p3912 N84-34772
Analysis of fatigue crack propagation of structural steel members subjected to variable amplitude fatigue stress 24 p3957 N84-35055
Effect of stacking sequence on fatigue life of composite materials 24 p3958 N84-35058

FATIGUE DIAGRAMS

U S-N DIAGRAMS

FATIGUE LIFE

Characterization of cumulative damage in composites during service 01 p0033 N84-10210
Computation of influence of defects on static and fatigue strength of composites 01 p0034 N84-10217
The engineering significance of defects in composite structures 01 p0035 N84-10222
Low strain, long life creep fatigue of AF2-1DA and INCO 718
[NASA-CR-167989] 01 p0042 N84-10268
Study on creep-fatigue life prediction using simple high temperature low cycle fatigue testing machines
[PB83-224121] 01 p0086 N84-10559
Fatigue of fiber composites
[FFA-TN-1983-30] 03 p0348 N84-12260
Low-cycle fatigue behavior of oxygen-free high-conductivity copper at 3000C in high vacuum
[DE84-000725] 04 p0504 N84-13305
Probabilistic fatigue life predictions of structural components in high-cycle fatigue regimes
[AD-A132425] 04 p0549 N84-13615
The VTX duty cycle developed from T-2C and TA-4J engine usage data
[AD-A133992] 05 p0631 N84-14149
Report on visit to the US and Europe in May 1983, covering the 1983 ICAF (International Committee on Aeronautical Fatigue) Meetings and related visits
[AD-A133415] 06 p0786 N84-15147
The effect of superposing ripple loading of maneuver load cycles
[AD-A132653] 06 p0786 N84-15148
Helix and Felix: Loading standards for use in the fatigue evaluation of helicopter rotor components
[NLR-MP-82041-U] 06 p0787 N84-15149
Elevated temperature low cycle fatigue of nickel base superalloys in the conventionally cast, directionally solidified and single crystal forms
[AD-A133598] 06 p0806 N84-15253
Bending fatigue of electron-beam-welded foils. Application to a hydrodynamic air bearing in the Chrysler/DOE upgraded automotive gas tubine engine
[NASA-TM-83539] 07 p1016 N84-16589
A study of polymer matrix fatigue properties
[AD-A135076] 08 p1122 N84-17294
Recommendations for future research on fracture mechanics life technology
[NASA-CR-170904] 08 p1169 N84-17615
A review of fracture mechanics life technology — linear elastic fracture mechanics
[NASA-CR-170903] 08 p1170 N84-17622
The effect of periodic overloads on flight-by-flight fatigue crack growth rates
[AD-A136407] 09 p1255 N84-18192
Fatigue life analysis and tensile overload effects with high strength steel notched specimens
[AD-A136065] 09 p1284 N84-18384
The use of interference-fit bolts or bushes and hole cold expansion for increasing the fatigue life of thick-section aluminium alloy bolted joints
[AR-002-973] 09 p1329 N84-18676
Influence of deformation behavior, oxydation, and temperature on the long time cyclic stress behavior of high temperature steels
[MPA-82-02] 09 p1334 N84-18710
New analytical methods for the prediction of fatigue crack growth under realistic loading --- aircraft structures
[NLR-MP-82055-U] 09 p1335 N84-18713
Fatigue and fracture toughness in aluminum
[NLR-MP-82058-U] 10 p1463 N84-19556
Comparison of fatigue life prediction based on local strains and nominal stresses respectively --- metal fatigue
[LBF-FB-169(183)] 10 p1518 N84-19937
Space Shuttle main engine powerhead structural modeling, stress and fatigue life analysis. Volume 2: Dynamics of blades and nozzles SSME HPFTP and HPOTP
[NASA-CR-171000] 11 p1625 N84-20636

Space Shuttle main engine powerhead structural modeling, stress and fatigue life analysis. Volume 3: Stress summay of blades and nozzles at FPL and 115 percent RPL loads. SSME HPFTP and HPOTP blades and nozzles
[NASA-CR-171001] 11 p1625 N84-20637
The development of advanced specimen testing and analysis techniques applied to fracture mechanics lifing of gas turbine components
[PNR-90179] 13 p1933 N84-22575
Prediction of long term crevice corrosion and hydrogen embrittlement behavior of ASTM grade-12 titanium --- containers for radioactive waste disposal
[DE84-002575] 14 p2128 N84-23759
Random fatigue of steels: Sequence effects during the crack initiation phase
[BMFT-FB-T-84-040] 16 p2466 N84-25804
Effect of preforming adherends on static and fatigue strength of bonded composite single-lap joints
[NASA-TP-2324] 16 p2501 N84-26053
On improving the fatigue performance of a double-shear lap joint
[VFW-29/83-O] 16 p2561 N84-26431
Experimental investigation of delaminations in carbon fiber composite
[MBB-FE-214/S/PUB/107] 16 p2562 N84-26434
Further thoughts on shot peening (and other compression inducing surface treatments) for fatigue enhancement
[BAE-KRS-N-GEN-275] 17 p2622 N84-26779
Estimating thermal fatigue strength of prototype blades in gas turbine engine 17 p2642 N84-26906
Corrosion fatigue of high strength fastener materials in seawater
[NASA-CR-174677] 17 p2723 N84-27328
Durability methods development, volume 7
[AD-A142400] 20 p3128 N84-29865
A tractable theory for nonlinear propellant response and cumulative damage predictions
20 p3142 N84-29950
A study of stiffness, residual strength and fatigue life relationships for composite laminates
[NASA-CR-172211] 20 p3146 N84-29978
Techniques for fatigue life predictions from measured strains
[NASA-CR-171118] 20 p3201 N84-30334
Powder metallurgy of light metal alloys for demanding applications
[AD-A142066] 21 p3366 N84-31352
Crack tip field and fatigue crack growth in general yielding and low cycle fatigue
[NASA-CR-174686] 22 p3554 N84-32503
Fatigue behavior of longitudinal transverse stiffener intersection
[PB84-202092] 22 p3612 N84-32887
Fatigue behavior of welded joints subjected to variable amplitude stresses
[PB84-207620] 22 p3612 N84-32888
Low cycle fatigue behavior of conventionally cast MAR-M 200 AT 1000 deg C
[NASA-TM-83769] 23 p3717 N84-33564
Improving the fatigue life of the Mirage IIIO wing main spar
[ARL-STRUC-REPT-398] 24 p3853 N84-34437
Predicting fatigue durability of duralumin specimens
24 p3874 N84-34550

FATIGUE TESTING MACHINES
Evaluation of a biaxial test fixture
[AD-A134845] 08 p1171 N84-17629
Improvement of the equipment of very long horizontal tensile test bench
[CETIM-5.510.05] 21 p3424 N84-31724

FATIGUE TESTS
Aircraft fatigue, with particular emphasis on Australian operations and research
[AD-A131036] 01 p0009 N84-10051
Growth of delaminations under fatigue loading
01 p0033 N84-10208
Experimental investigation of delaminations in carbon fibre composite 01 p0033 N84-10209
Characterization of cumulative damage in composites during service 01 p0033 N84-10210
Correction between nondestructive inspection results and performance of graphite/epoxy structural parts
01 p0034 N84-10212
Behavior of idealized discontinuities and impact damages in CFRP under fatigue loading
01 p0034 N84-10214
Effect of defects on aircraft composite structures
01 p0035 N84-10221
Fatigue crack growth and low cycle fatigue of two nickel base superalloys
[NASA-CR-174534] 01 p0042 N84-10267
Bond characteristics of epoxy coated reinforced bars
[PB83-205518] 01 p0058 N84-10379
Study of the practicalities of concrete for OTEC (Ocean Thermal Energy Conversion) and other marine applications
[PB83-221887] 01 p0060 N84-10398
Effects of bonding temperatures on fatigue crack growth
[AD-A130396] 01 p0094 N84-10615
A review of Australian investigations on aeronautical fatigue during the period April 1981 to March 1983
[AD-A130968] 03 p0388 N84-12532
Biaxial fatigue, a review of the literature
[FRP-82/17] 04 p0498 N84-13266
Low-cycle fatigue behavior of oxygen-free high-conductivity copper at 3000C in high vacuum
[DE84-000725] 04 p0504 N84-13305
Report on visit to the US and Europe in May 1983, covering the 1983 ICAF (International Committee on Aeronautical Fatigue) Meetings and related visits
[AD-A133415] 06 p0786 N84-15147
Fatigue process of hard steels
07 p0983 N84-16368
Endurance of steel lugs with clearance-fit pins (tensile mean stress)
[ESDU-82022] 07 p1011 N84-16559
Preliminary study of thermomechanical fatigue of polycrystalline MAR-M 200
[NASA-TP-2280] 08 p1130 N84-17350
Metallurgical and mechanical tests of materials
[AD-A136347] 09 p1327 N84-18666
Engine cyclic durability by analysis and material testing
[NASA-TM-83577] 09 p1330 N84-18683
Space Shuttle main engine powerhead structural modeling, stress and fatigue life analysis. Volume 3: Stress summay of blades and nozzles at FPL and 115 percent RPL loads. SSME HPFTP and HPOTP blades and nozzles
[NASA-CR-171001] 11 p1625 N84-20637
A study of the solidification parameters influencing structures and properties in MAR-M246(Hf)
[NASA-TM-82569] 11 p1633 N84-20675
Effect of fatigue and thermal loads on silicon carbon fiber reinforced glass matrix composites
[DE84-007464] 14 p2121 N84-23710
Influence of the viscous environments on fatigue crack propagation in a lower strength steel
[DE84-008247] 14 p2128 N84-23761
Effect of preferred orientation on crack growth properties of Ti-6Al-4V alloys, part 2
[BR89101-PT-2] 15 p2296 N84-24780
Effect of preferred orientation on crack growth properties of Ti-6Al-4V alloys, part 1
[BR89100-PT-1] 15 p2299 N84-24802
Surface fatigue characteristics of transmission gears
15 p2307 N84-24843
Impact and fatigue of graphite/epoxy laminates
15 p2310 N84-24862
Fatigue crack growth rate data for aluminum alloy 6061-t651 plate
[AD-A140325] 16 p2469 N84-25824
Review of aeronautical fatigue investigations in the Netherlands during the period March 1981 - February 1983
[AD-B082166] 16 p2502 N84-26057
Ultrasonic and optical evaluation of surgical implant materials and devices. A durability study of pericardial bioprostheses
[NASA-CR-173437] 16 p2535 N84-26274
Characterization of a sample of aluminum alloy longeron in 7050 T73652 of Alcoa origin. Summary of test number MO 570300 18 p2794 N84-27729
Tensile strength and recrystallization of the 7010 and 7475 alloys: Low cycle fatigue of the 7010 alloy --- aluminum alloys
[REPT-18/5069-M] 18 p2815 N84-27873
Torsional and axial hot fatigue characterization of the Z2 NKD 18-8-5 steel (maraging 250): Specimens obtained from a bar. Summary of test number M3 418700
18 p2815 N84-27874
Fatigue evaluation of the molded T.A6V alloy isostatically compacted under heat. Summary of test number M9 505600 18 p2816 N84-27876
Material characterization by strain rate controlled low cycle fatigue tests and by crack propagation velocity: Summary of test number M3 430300
[IMI-679] 18 p2816 N84-27878
Experimental stress analysis and fatigue tests of five 12-in NPS ANSI Standard B169 tees
[DE84-010280] 18 p2853 N84-28117
Durability methods development, volume 7
[AD-A142400] 20 p3128 N84-29865
Calibration of CT-4A fatigue test article, March 1983
[AD-A142880] 21 p3326 N84-31115
Residual strength of five boron/aluminum laminates with crack-like notches after fatigue loading
[NASA-CR-3815] 21 p3357 N84-31290
Investigation of damage and damage propagation in static and fatigue tests on carbon epoxy composites
[SNIAS-841-551-102] 21 p3358 N84-31298
Hydrogen fatigue test — plated bolts
[CETIM-12-F-400] 21 p3369 N84-31373
Characterization of common steels. Report of partial test Number M6-645900, Number 4
21 p3369 N84-31376
Cyclic torsion testing
[NASA-TM-83756] 21 p3419 N84-31687
How many specimens? An aid in the design of fatigue test programs
[AD-A142810] 21 p3422 N84-31704
The need for biaxial fatigue testing at A.R.L.
[AD-A143203] 22 p3611 N84-32878
Fatigue behavior of longitudinal transverse stiffener intersection
[PB84-202092] 22 p3612 N84-32887
Improving the fatigue life of the Mirage IIIO wing main spar
[ARL-STRUC-REPT-398] 24 p3853 N84-34437
Fatigue crack growth in vacuum and in gaseous media
24 p3870 N84-34529

FATS
Adaptations to a high fat diet which increase exercise endurance in male rats 04 p0570 N84-13755

FATTY ACIDS
NT CARBOXYLIC ACIDS
A comparative study of the fatty acid composition of prochioron lipids 10 p1544 N84-20115

FAULT MECHANICS
U FRACTURE MECHANICS

FAULT TOLERANCE
Fault tolerant architectures for integrated aircraft electronics systems
[NASA-CR-172226] 01 p0119 N84-10769
Fault tolerant optimal control
[NASA-CR-174471] 02 p0278 N84-11822
A fault-tolerant distributed computer network design and analysis for an integrated flight control system
03 p0336 N84-12189
Impossibility of distributed consensus with one faulty process
[AD-A132503] 04 p0580 N84-13823
Fault tolerant signal processing using finite fields and error-correcting codes
[AD-A133927] 05 p0667 N84-14386
Fault detection using abstracted models of finite-state machines 05 p0721 N84-14724
Towards the functional partitioning of highly integrated, fault tolerant avionics signal processors
06 p0770 N84-15047
Simulation requirements to support the development of a fault tolerant avionic system 06 p0774 N84-15072
Software testing of safety critical systems
06 p0774 N84-15073
Segmented testing
[NASA-CR-173188] 07 p1058 N84-16855
Error latency estimation using functional fault modeling
[NASA-CR-173207] 07 p1058 N84-16856
A renormalization group model for the stick-slip behavior of faults
[NASA-CR-173362] 09 p1344 N84-18782
Development and analysis of the Software Implemented Fault-Tolerance (SIFT) computer
[NASA-CR-172146] 09 p1371 N84-18953
Yield enhancement by fault tolerant systolic arrays (summary) 09 p1402 N84-19158
Logistics engineering design techniques for fault-tolerant avionics systems
[AD-A137456] 10 p1430 N84-19349
Development of a redundant computer system for flight augmentation
[BMFT-FB-W-83-027] 10 p1431 N84-19356
Mechanical signature analysis
10 p1505 N84-19843
Active reliability engineering, technical concept and program plan. A solid-state systems approach to increased reliability and availability in military systems
[AD-A137541] 11 p1666 N84-20866
Liu fault diagnosis investigation
[AD-A137552] 11 p1706 N84-21119
Guidelines-software verification
[DE84-003899] 11 p1709 N84-21138
Upper and lower bounds for semi-Markov reliability models of reconfigurable systems
[NASA-CR-172340] 12 p1897 N84-22353
Relations among system diagnosis models with 3-valued test outcomes
[AD-P002374] 14 p2195 N84-24165
Fault tolerant spaceborne computer
15 p2266 N84-24607
The design and development of two-failure tolerant mechanisms for the Spaceborne Imaging Radar (SIR-B) antenna 15 p2348 N84-25087

Inherent problems in designing two-failure tolerant electromechanical actuators 15 p2348 N84-25088
Investigation, development, and evaluation of performance proving for fault-tolerant computers [NASA-CR-166008] 15 p2385 N84-25307
STP: A mechanized logic for specification and verification 15 p2386 N84-25308
Specifying and verifying ultra-reliability and fault-tolerance properties 15 p2386 N84-25309
A summary of HDM 15 p2386 N84-25312
The SIFT code specification 15 p2387 N84-25316
The proof of the SIFT implementation 15 p2387 N84-25317
A formal semantics for the SRI hierarchical program design methodology 15 p2387 N84-25318
On why it is impossible to prove that the BDX90 dispatcher implements a time-sharing system 15 p2387 N84-25319
Defining of the BDX930 assembly language 15 p2387 N84-25320
Verification of numerical algorithms 15 p2387 N84-25321
Development and evaluation of a fault-tolerant multiprocessor (FTMP) computer. Volume 4: FTMP executive summary [NASA-CR-172286] 15 p2395 N84-25366
The embedded operating system project [NASA-CR-173438] 16 p2542 N84-26319
Characteristic faults of input stabilizing and correcting equipment in television transmitting stations 17 p2632 N84-26837
Care 3: Hands-on demonstration and tutorial [NASA-TM-85811] 17 p2749 N84-27448
Fault tolerant architectures for integrated aircraft electronics systems, task 2 [NASA-CR-172282] 18 p2795 N84-27734
CARE 3: Model overview and user's guide [NASA-TM-85810] 18 p2920 N84-28514
Distributed avionic computers [AD-A142140] 19 p3073 N84-29494
A summary of fault tolerant computing research at Carnegie Mellon University [AD-A142707] 20 p3273 N84-30777
Characterization of real-time computers [NASA-CR-3607] 20 p3277 N84-30801
Digital avionics design for validation [AD-P003571] 21 p3337 N84-31176
Reliability analysis of an ultra-reliable fault tolerant control system [NASA-CR-166594] 21 p3345 N84-31219
Fault tolerant software modules for SIFT [NASA-CR-165874] 21 p3463 N84-31955
Test procedures and design methods for reliable large scale integrated circuits and systems [AD-A143324] 22 p3638 N84-33061
Extending binary Byzantine agreement to multivalued Byzantine agreement [AD-A143424] 22 p3640 N84-33077
Fault-tolerant system considerations for a redundant strapdown inertial measurement unit [NASA-CR-172426] 23 p3692 N84-33396
Validation of a fault-tolerant clock synchronization system [NASA-TP-2346] 23 p3816 N84-34198
Software Implemented Fault-Tolerant (SIFT) user's guide [NASA-TM-86289] 23 p3817 N84-34199
A fault-tolerant multiprocessing unit for on-board satellite supervision and control [INPE-3244-PRE/590] 24 p3866 N84-34500

FAULT TREES
Avionics fault tree analyzer 06 p0771 N84-15053
Reliability of electrical machines and drives, part 1 [BMFT-FB-T-83-163-PT-1] 07 p0999 N84-16480
Aircrew Automated Escape Systems (AAES) In-service Usage Data Analyses, volume 2 [AD-A134834] 08 p1100 N84-17155
Program for the analysis of fault trees [AD-A134746] 08 p1213 N84-17910
State variable method of fault tree analysis [DE84-006007] 12 p1824 N84-21891
Care 3: Hands-on demonstration and tutorial [NASA-TM-85811] 17 p2749 N84-27448

FAULTS
Algorithms for automated diagnosis of faults in physical plant [DE84-000192] 04 p0582 N84-13841
A method of test generation for verification of wiring correctness [AD-P002376] 14 p2195 N84-24167

FAUNA
U ANIMALS

FBFM (MODULATION)
U FEEDBACK FREQUENCY MODULATION

FDMA
U FREQUENCY DIVISION MULTIPLE ACCESS

FEASIBILITY
Reports from the German Meteorological Service. Number 165: The wind conditions in the Federal Republic of Germany with a view to windpower utilization (especially network planning). Part 3: Interior. Part 4: Hinterland [ISBN-3-88148-211-3] 19 p3057 N84-29393
Energy-absorbing earcup engineering feasibility evaluation [AD-A144179] 24 p3938 N84-34924

FEASIBILITY ANALYSIS
Feasibility of using sonic techniques to estimate in-situ stresses [DE83-016890] 01 p0097 N84-10634
Hydrologic flow determination for hydropower feasibility analysis [PB83-219758] 01 p0101 N84-10655
Integrated Cuing Requirements (ICR) study: Feasibility analysis and demonstration study [AD-A131039] 01 p0117 N84-10758
Feasibility study for a generalized gate logic software simulator [NASA-CR-172159] 01 p0118 N84-10765
Intense antiproton source for a 20 TeV collider [DE83-012878] 01 p0142 N84-10934
Evaluation of some remote sensing techniques for oil and crop management 02 p0234 N84-11538
FOSS (Fiber Optic Sensor System) FDM (Feasibility Demonstration Model) electrooptical tow cable termination [AD-A131319] 02 p0294 N84-11925
A simulator evaluation of an automatic terminal approach system 03 p0312 N84-12037
L band satellite communication experiment in the Antartic [ESA-TT-805] 03 p0362 N84-12356
A thousand TeV in the center of mass: Introduction to high-energy storage rings [DE83-015649] 03 p0435 N84-12855
Feasibility of using a large press (80,000 - 200,000 tons) for manufacturing future components on Army systems [AD-A132398] 04 p0544 N84-13582
An evaluation of automated control of the oxyfuel cutting process for M1 vehicle fabrication [AD-A134073] 05 p0688 N84-14520
A feasibility study of electromagnetic DE-spin system for Earth orbiting satellites 06 p0930 N84-16040
Feasibility assessment of JOVIAL to Ada translation [AD-A134857] 08 p1213 N84-17911
Feasibility study of an automatic protein growth facility using the retrievable carrier — EURECA project [MBB-URV-131(82)] 09 p1263 N84-18246
Acoustic signature from flames as a combustion diagnostic tool [AD-A136447] 09 p1278 N84-18347
The Mark 3 linac as a high current source for FEL (Free Electron Lasers) experiments [AD-A136312] 09 p1320 N84-18625
Radiative collisional laser feasibility demonstration [AD-A135793] 09 p1322 N84-18640
Initial acceleration for electromagnetic launchers: A feasibility study on chemical propellants [MRL-TN-478] 11 p1639 N84-20712
Technical and economic feasibility of Stirling cycle industrial heat pumps [DE84-005486] 11 p1653 N84-20793
Biothermal conversion of biomass and wastes to methane [DE84-006052] 11 p1675 N84-20931
Investigation of the applicability of a stored hydraulic energy propulsion system to a conventional bus [PB84-115021] 11 p1753 N84-21446
Simulation of a cockpit-display concept for executing a wake-vortex avoidance procedure [NASA-TP-2300] 12 p1770 N84-21542
System feasibility study on rendezvous and docking in transfer orbit, volume 1 [PV6-13/82-VOL-1] 12 p1776 N84-21588
System feasibility study on rendezvous and docking in transfer orbit, volume 2 [PRV6-13/82] 12 p1776 N84-21589
The 100 GHz, 1 MW, CW gyrotron study program [DE84-005751] 12 p1813 N84-21819
The measurement of mechanical point admittances by means of hammer excitation and tape recording. Part 1: A feasibility study [TPD-308.780/1-VOL-1] 12 p1900 N84-22375
Feasibility anlysis of novel technological principles of producing multicomponent mechanisms 13 p1968 N84-22773
Attempt at dust debris collection with stacked detectors (A0138-2) 15 p2276 N84-24668
LSI/VLSI (Large Scale Integration/Very Large Scale Integration) ion implanted GaAs (Gallium Arsenide) IC processing. Appendix A: Feasibility analysis of Gallium-Arsenide mask programmable functions and logic arrays for high performance communications systems [AD-A139677] 15 p2328 N84-24980
LSI/VLSI (Large Scale Integration/Very Large Scale Integration) ion implanted GaAs (Gallium Arsenide) IC processing. Appendix B: Two-dimensional modeling of GaAs MESFET devices for integrated high-speed logic circuits [AD-A139678] 15 p2328 N84-24981
XeF pumped Tm:YLF laser scaling [AD-A140004] 15 p2339 N84-25041
Spiral Kicker for the beam abort system [DE84-007267] 15 p2406 N84-25442
Investigation of image enhancement techniques for the development of a self-contained airborne radar navigation system [NASA-CR-166530] 16 p2445 N84-25684
SAR transmitter [SES/ENG/TN-254/83] 16 p2484 N84-25928
Preliminary airworthiness evaluation of the Rutan Aircraft Factory (RAF), Incorporated LONG-EZ airplane [AD-A140765] 17 p2606 N84-26895
Friction damping of flutter in gas turbine engines 17 p2609 N84-26701
POPSAT: A candidate satellite system for solid Earth applications and sciences. Preliminary feasibility study. Volume 1: Summary [ESA-CR(P)-1882-VOL-1] 17 p2614 N84-26735
Computer-aided design of robots 17 p2674 N84-27037
Feasibility study for the improvement of automatic detection of bird migration with radar images [LEOK-TR-1983-12] 18 p2790 N84-27704
Space Station commercial user development [NASA-CR-173688] 18 p2798 N84-27756
Polymeric web lens evaluation [DE84-010108] 19 p3000 N84-29013
Optical adaptive filter. Frequency domain implementation [AD-A141090] 19 p3104 N84-29718
Is the wind a practical source of energy for you? [DE84-010938] 20 p3236 N84-30541
On-site analysis to assess the feasibility of wind power [DE84-009762] 20 p3247 N84-30606
Design issues in parallel architectures for artificial intelligence [AD-A142482] 20 p3278 N84-30809
New lasing ferroelectric material Pb5Ge3O11-Nd-3(+) 20 p3288 N84-30875
High-Q open resonator structures with sparse spectrum 20 p3288 N84-30876
Spacecraft servicing demonstration plan [NASA-CR-171132] 21 p3351 N84-31258
Link between characteristics of EEG rhythms in biofeedback control and indexes for operator activity 21 p3455 N84-31927
Future accelerators using micro-fabrication technology [DE84-002892] 21 p3496 N84-32157
Shuttle detached spacecraft [AD-A143320] 22 p3541 N84-32417
Development of shearography for nondestructive testing of highway structure [PB84-187244] 22 p3565 N84-32577
Dynamic testing of NOVA laser structural systems. The north side of Spaceframe Tower [DE84-014830] 22 p3602 N84-32816
Aerodynamic feasibility for airborne retrieval of a remotely piloted vehicle [AD-A143695] 23 p3693 N84-33404
Study of the process of destruction of fibroconcrete slabs under a static load simulating the action of a motor vehicle's wheel on a bridge [ISSN-0208-5658] 23 p3726 N84-33612
Reserve Li/SOCl2 battery safety testing 23 p3736 N84-33678
Conceptual design of a hybrid Ge:Ga [NASA-CR-166605] 24 p3902 N84-34708

FEATHERING
Preliminary design study of a higher harmonic blade feathering control system [NASA-CR-159327] 23 p3695 N84-33418

FEATURE EXTRACTION
U PATTERN RECOGNITION

FECES
Standard research materials: Feces and urine 08 p1205 N84-17854

FEDERAL BUDGETS
Strengthening the government-university partnership in science [PB83-230870] 02 p0302 N84-11979
Guidance needed if better Freedom of Information Act costs reports are desired [PB83-242040] 02 p0303 N84-11987

National Aeronautics and Space Administration authorization, 1984, volume 2
[GPO-19-605] 02 p0303 N84-11988
National Science Foundation authorization, 1984 authorization
[GPO-21-280] 02 p0303 N84-11990
Meeting the automatic data processing and telecommunications needs of the federal government: A five-year plan
[PB83-195255] 08 p1241 N84-18111
National Aeronautics and Space Administration Act, 1985 08 p1241 N84-18116
Requirements analysis for forward funding tracking system, volume 1
[AD-A136840] 10 p1591 N84-20425
Department of Housing and Urban Development, and certain independent agencies appropriations, 1984, part 2
[S-REPT-98-221-PT-2] 11 p1752 N84-21439
Department of Housing and Urban Development-independent agencies appropriations for 1984: National Aeronautics and Space Administration 11 p1753 N84-21440
Authorizing appropriations to the National Aeronautics and Space Administration for fiscal year 1985
[H-REPT-98-629] 11 p1753 N84-21441
Progress in improving program and budget information for Congressional use
[AD-A137491] 12 p1920 N84-22511
National Aeronautics and Space Administration Authorization Bill, 1984
[S-REPT-98-455] 14 p2249 N84-24506
National Aeronautics and Space Administration Authorization Act
[S-REPT-98-455] 14 p2249 N84-24507
Department of Housing and Urban Development Appropriations Bill, 1984
[H-REPT-98-803] 14 p2249 N84-24508
The 1985 NASA authorization
[GPO-31-453] 15 p2419 N84-25526
Department of Housing and Urban Development-Independent Agencies Appropriation Bill, 1985 15 p2420 N84-25530
National Aeronautics and Space Administration 15 p2420 N84-25531
Department of Housing and Urban Development-Independent Agencies Appropriations Act, 1985 15 p2420 N84-25532
National Aeronautics and Space Administration research and development 15 p2420 N84-25533
Department of Housing and Urban Development-Independent Agencies Appropriations Bill, 1985
[S-REPT-98-506] 16 p2568 N84-26476
Department of Housing and Urban Development-Independent Agencies Appropriation Act, 1985 16 p2568 N84-26480
Making appropriations for the Department of Housing and Urban Development, and for sundry independent agencies, boards, commissions, corporations, and offices for the fiscal year ending September 30, 1985, and for other purposes
[H-REPT-98-867] 17 p2772 N84-27603
Authorizing appropriations from the National Aeronautics and Space Administration
[H-REPT-98-873] 17 p2772 N84-27605
Justification of estimates for fiscal year 1985 submitted to Congress February 1984. Other procurement, Air Force
[AD-A140835] 17 p2773 N84-27608
Justification of estimates for fiscal year 1985 submitted to Congress February 1984. Missile procurement, Air Force
[AD-A140836] 17 p2773 N84-27609
Justification of estimates for fiscal year 1985 submitted to Congress February 1984. Aircraft procurement, Air Force
[AD-A140837] 17 p2773 N84-27610
Report of accomplishments under the airport improvement program
[AD-A142444] 20 p3132 N84-29889
Federal funds for research and development, fiscal years 1981, 1982 and 1983, volume 31
[PB84-189596] 20 p3314 N84-31045
Federal funds for research and development, fiscal years 1982, 1983 and 1984. Volume 32: Detailed statistical tables
[PB84-189604] 20 p3314 N84-31046
Guide to programs, fiscal year 1984: Guide describing National Science Foundation programs and activities
[PB84-193226] 21 p3516 N84-32270
Department of Energy's activities to limit distribution of certain unclassified scientific and technical information
[PB84-189158] 21 p3520 N84-32302
Analysis of benefits realized from multiyear contracting for the Black Hawk helicopter
[AD-A143485] 22 p3669 N84-33254
The 1985 NASA authorization, volume 2
[GPO-34-202] 22 p3676 N84-33301
Oversight on the Federal Aviation Administration fiscal year 1985 research, engineering and development budget request
[GPO-34-924] 22 p3676 N84-33302
Introduction to the airport improvement program
[AD-A144556] 24 p3857 N84-34454
NASA authorization for fiscal year 1985
[GPO-32-363] 24 p3969 N84-35133

FEDERAL REPUBLIC OF GERMANY
U WEST GERMANY

FEED SYSTEMS
Constant-output atomizer — inhalation therapy and aerosol research
[NASA-CASE-MFS-25631-1] 03 p0370 N84-12406
Feed system for the Metsaehovi cooled 75-95 GHz receiver
[REPT-S-146] 15 p2328 N84-24978
Improved monogroove heat pipe design: Insulated liquid channel with bridging wick
[NASA-CASE-MSC-20497-1] 24 p3899 N84-34692

FEEDBACK
NT NEGATIVE FEEDBACK
NT NONLINEAR FEEDBACK
NT POSITIVE FEEDBACK
NT SENSORY FEEDBACK
Analysis of a delayed delta modulator
[AD-A131208] 02 p0282 N84-11845
Training feedback handbook
[AD-A132565] 05 p0715 N84-14683
Advanced topics in robustness for multivariable control
[AD-A134606] 07 p1058 N84-16850
An algebraic approach to analysis and control of time-scales
[AD-A135115] 08 p1218 N84-17949
User centered system design
[AD-A136131] 09 p1364 N84-18907
Feedback and adaptive finite element solution of one-dimensional boundary value problems
[AD-A136018] 09 p1378 N84-19000
Performance feedback effects under varying conditions of goals, feedback type, and choice
[AD-A136703] 10 p1550 N84-20157
Self-monitoring. Cognitive processes and performance
[AD-A137043] 10 p1551 N84-20164
Variable structure control of interconnected systems with applications to power systems
[DE84-006587] 12 p1892 N84-22321
Distributed feedback bistability in channel waveguides 14 p2236 N84-24417
Instabilities and chaos in TV-optical feedback 14 p2237 N84-24422
Multistability due to the helical optical distributed feedback in the cholesteric liquid crystals 14 p2241 N84-24454
Multivariable control law theory 15 p2253 N84-24530
Modification of current feedback strategies: A text synthesis approach
[AD-A142187] 19 p3068 N84-29463
Summaries of doctorate theses — man machine systems 20 p3263 N84-30705
Proprioception — prosthetic devices 20 p3264 N84-30714
Feedback in separated flows over symmetric airfoils
[NASA-TM-83758] 21 p3324 N84-31091
Humidity/cloud-radiation feedback on possible climatic perturbation due to fossil fuel utilization
[DE84-011895] 21 p3448 N84-31874
New type of dye laser with light-induced distributed feedback 21 p3482 N84-32067
Photon-photon absorption and the uniqueness of the spectra of active galactic nuclei
[NASA-TM-86117] 21 p3526 N84-32338
Feedback systems and simultaneous design
[AD-A143547] 22 p3644 N84-33102
Decentralized system theory
[DE84-013658] 23 p3820 N84-34227

FEEDBACK CIRCUITS
Microwave frequency divider
[AD-D011065] 19 p3017 N84-29124
A wide field-of-view CRT projection system with optical feedback for self alignment
[AD-P003447] 21 p3508 N84-32224

FEEDBACK CONTROL
NT CASCADE CONTROL
ATOPS B-737 inner-loop control system linear model construction and verification
[NASA-CR-166055] 01 p0012 N84-10078
Fundamentals of analysis for digital control systems 01 p0014 N84-10094
Performance and robustness aspects of digital control systems 01 p0015 N84-10098
Direct digital design via pole placement techniques 01 p0015 N84-10099
Improvement of reliability of welding by in-process sensing and control (development of smart welding machines for girth welding of pipes)
[DE83-017012] 01 p0091 N84-10595
Recent results from the ZT-40M reversed-field pinch program
[DE83-014149] 01 p0151 N84-10993
A carrier recovery closed loop implementation in high velocity PSK modems by digital techniques — (feedback control)
[INPE-2822-PRE/376] 02 p0208 N84-11355
A conceptual study of automatic and semi-automatic quality assurance techniques for round image processing
[NASA-CR-170610] 02 p0230 N84-11508
Development of instrumentation for monitoring carbon fiber emission
[PB83-233726] 03 p0378 N84-12460
An application of nonlinear programming to the design of regulators of a linear-quadratic formulation
[NASA-CR-172253] 04 p0515 N84-13380
Analysis and control of quasi distributed parameter systems 04 p0547 N84-13603
An experimental study of multi-link models of human postural dynamics and control 04 p0572 N84-13769
Tuned analog network
[NASA-CASE-GSC-12650-1] 05 p0673 N84-14421
An evaluation of automated control of the oxyfuel cutting process for M1 vehicle fabrication
[AD-A134073] 05 p0688 N84-14520
Experimental study of active vibration control
[AD-A133818] 05 p0692 N84-14546
Stabilization of solutions for a class of parabolic integro-differential equations
[AD-A132821] 05 p0736 N84-14837
Direct multivariable model reference adaptive control with applications to large structural systems 06 p0900 N84-15840
Improved dynamic models for air combat analysis
[TAE-483] 06 p0905 N84-15876
Design of a lateral ride comfort control system for STOL aircraft
[UTIAS-TN-247] 07 p0950 N84-16165
The Grindomatic or the optimization of cutting conditions during production for plunge-cut grinding
[CRIF-MC-76] 07 p1012 N84-16569
The automatic transmission optimal control problem
[CSIR-TWISK-286] 07 p1057 N84-16844
Asynchronous discrete control of continuous processes
[AD-A135257] 08 p1215 N84-17930
Selection of noisy sensors and actuators for regulation of linear systems — large space structures
[AD-A135442] 08 p1216 N84-17931
Robotic technology applied to Army mobility systems
[AD-A134728] 08 p1216 N84-17933
Reconfigurable multivariable control law for commercial airplane using a direct digital output feedback design
[NASA-TM-85759] 09 p1257 N84-18206
Linearised optimal control and application to a gliding projectile
[AD-A135605] 09 p1271 N84-18305
Repetitively pulsed electric laser acoustic studies, volume 1
[AD-A136538] 09 p1322 N84-18636
Wiener-Poisson control problems
[AD-A135943] 09 p1372 N84-18956
Decentralized control of a large space structure using direct output feedback
[AD-A136781] 10 p1448 N84-19464
Closed loop adaptive control of a 4.0 gigaHertz reactively steered microstrip array - experimental results
[AD-A137523] 10 p1486 N84-19717
On-site fuel cell power plant technology development program
[PB84-125095] 10 p1538 N84-20076
On optimality OLF control — open loop feedback (OLF)
[OUEL-1493/83] 10 p1567 N84-20263
On equivalence between optimal stochastic control and open-loop feedback control 10 p1567 N84-20264
About equivalence between closed-loop and open-loop feedback controls 10 p1567 N84-20265
A learning adaptive controller 10 p1568 N84-20272
Tokamak plasma position dynamics and feedback control
[DE84-004424] 10 p1586 N84-20393
NASA Aircraft Controls Research, 1983
[NASA-CP-2296] 11 p1615 N84-20567

Flying qualities criteria for superaugmented aircraft
11 p1615 N84-20569
Large aircraft handling qualities
11 p1615 N84-20570
Flexible aircraft flying and ride qualities
11 p1615 N84-20572
Feedback laws for fuel minimization for transport aircraft 11 p1617 N84-20579
Algorithms for output feedback, multiple-model, and decentralized control problems
11 p1617 N84-20583
Flight test results for the Digital Integrated Automatic Landing Systems (DIALS): A modern control full-state feedback design 11 p1618 N84-20589
Design of longitudinal control laws for the X-29A backup analog flight control system
[AD-A137814] 11 p1619 N84-20601
Modeling and robust control of a compliant robotic manipulator via the finite element method
11 p1703 N84-21102
Time domain analysis and synthesis of robust controllers for large scale LQG (Linear Quadratic Gaussian) regulators
[AD-A137760] 11 p1713 N84-21172
An optimal control approach to pilot/vehicle analysis and Neal-Smith criteria
[NASA-CR-170416] 12 p1771 N84-21551
Method for determining how to operate and control wind turbine arrays in utility systems
[DE84-005817] 12 p1813 N84-21817
Open and closed loop steering in a lane change maneuver
[IZF-1983-22] 12 p1867 N84-22167
PSC, a programmable software controller for a multiple bladder, sequentially inflatable g-suit
[AD-A138089] 12 p1868 N84-22172
Robust multivariable controller design via implicit model-following methods
[AD-A138309] 12 p1882 N84-22268
Adequate/inadequate representations of uncertainty and their implications for robustness analysis
[OUEL-1486/83] 12 p1892 N84-22323
Control of parameter-dependent systems, spatially-distributed systems, and systems with delays
[AD-A138036] 12 p1897 N84-22354
Dynamic stifness of closed gas-static bearing with regulator 13 p1968 N84-22774
Three phase power factor controller
[NASA-CASE-MFS-25535-2] 13 p1985 N84-22885
Parameterization and approximation methods in feedback theory with applications in high gain, fast sampling and cheap optimal control
[RR-241] 13 p2031 N84-23167
Decoupled control analysis of a large flexible space antenna with linear quadratic regulator comparisons
[NASA-TP-2293] 14 p2115 N84-23675
The linear quadratic optimal control problem for infinite dimensional systems with unbounded input and output operators
[AD-A139333] 14 p2214 N84-24296
Theory of optical bistability in collinear degenerate four-wave mixing 14 p2238 N84-24434
Microprocessor based implementation of attitude and shape control of large space structures
14 p2245 N84-24482
High-gain error actuated flight control systems for continuous linear multivariable plants
[AFIT/GAE/EE/82D-1] 15 p2254 N84-24534
A simplified method of evaluating aircraft handling qualities using a pilot transfer function model
[GU-AERO-8302] 15 p2264 N84-24595
Fast estimation of state feedback gain for the design of aircraft autopilots
[GU-AERO-8305] 15 p2264 N84-24596
Characterization of uncertainty for large space structure control problems 15 p2268 N84-24619
Robustness quantification for nonlinear sampled-data systems with dynamic multiplicative perturbations
16 p2476 N84-25871
Feedback in robotics for assembly and manufacturing
[PB84-177112] 17 p2675 N84-27044
Delayed feedback optimal controller
17 p2756 N84-27498
Description of the Gornergrat telescope control system
[IFSI-84-3] 18 p2850 N84-28096
Design of multivariable feedback control systems via spectral assignment using reduced-order models and reduced-order observers
[NASA-CR-173448] 18 p2923 N84-28537
Regions of attraction and ultimate boundedness for linear quadratic regulators with nonlinearities
[NASA-TP-2322] 18 p2923 N84-28538
Active suppression of aeroelastic instabilities for forward swept wings
[AD-A141739] 19 p2964 N84-28783
Digital multivariable tracker control laws for the KC-135A
[AD-A141118] 19 p2964 N84-28786
Review of research under the Joint Services Electronics Program
[AD-A141458] 19 p3013 N84-29100
Adaptive decentralized control
[AD-A142160] 19 p3081 N84-29549
Representation of uncertainty and robustness tests for multivariable feedback systems
[OUEL-1517/84] 19 p3091 N84-29627
Extensions of the small-mu test for robust stability
[OUEL-1518/84] 19 p3091 N84-29628
An H sup inf minimax approach to the design of robust control systems
[OUEL-1520/84] 19 p3091 N84-29629
A robustness test for distributed feedback systems
[OUEL-1522/84] 19 p3091 N84-29630
Approximation techniques for parameter estimation and feedback control for distributed models of large flexible structures
[NASA-CR-172411] 20 p3135 N84-29903
Stability of tubes conveying fluid
[DE84-010573] 20 p3185 N84-30240
Summaries of doctorate theses — man machine systems 20 p3263 N84-30705
Investigation and appreciation of optimal output feedback. Volume 1: A convergent algorithm for the stochastic infinite-time discrete optimal output feedback problem
[NASA-CR-3828] 21 p3344 N84-31217
Some aspects of guidance loop design for SAM systems 21 p3350 N84-31251
Dielectric cure monitoring: Preliminary studies
[NASA-TM-86452] 21 p3369 N84-31378
Automatic camera tracking for remote manipulators
[DE84-011455] 21 p3407 N84-31608
Instrumentation for real-time ultrasonic sensing of arc welding characteristics
[DE84-012536] 21 p3414 N84-31649
Research on output feedback control of systems with ill-conditioned dynamics
[NASA-CR-173921] 22 p3639 N84-33071
Controller technique of compensation figured in an active control scheme on the accumulated effects of deviation in the modeling
[INPE-2987-TDL/152] 22 p3643 N84-33100
Frequency response design methods for large scale systems
[DE84-013111] 22 p3644 N84-33103
Three-phase power factor controller with induced EMF sensing
[NASA-CASE-MFS-25852-1] 23 p3734 N84-33661
Decentralized system theory
[DE84-013658] 23 p3820 N84-34227
Autopilot performance evaluation Tornado experience and future applications 24 p3849 N84-34407
Active suppression of aeroelastic instabilities on a forward swept wing using a linear optimal regulator
[AD-A144561] 24 p3854 N84-34442
Control methodologies for large space structures
[NASA-CR-173987] 24 p3861 N84-34467
Investigation of multiple controller system efficiency as applied to the CSDL model
[AD-A144597] 24 p3949 N84-35002

FEEDBACK FREQUENCY MODULATION
Rivista Tecnica Selenia, volume 8, number 1
17 p2652 N84-26961
Frequency modulation with noise in a sampled Automatic Frequency Control (AFC) system
17 p2652 N84-26963

FEEDERS
Hydraulic hoisting and backfilling
[CSIR-ME-452] 04 p0532 N84-13498
Spacelab 4: Primate experiment support hardware
15 p2348 N84-25092
Economic application of assembly robots: Elements of sensor applications to programmable feeders
[PB84-193200] 21 p3415 N84-31656
Special features of the formation of a bed of polydispersed free-flowing materials
[BLL-M-35674-(5828.4)] 22 p3592 N84-32747

FEEDFORWARD CONTROL
Input filter compensation for switching regulators
[NASA-CR-173247] 07 p0996 N84-16459
Adaptive feedforward linear wideband HF power bank
[AD-A134744] 08 p1151 N84-17493
Linearization of an analog fiber-optic system using the quasi-feedforward technique
[AD-A137529] 11 p1731 N84-21294
Method for determining how to operate and control wind turbine arrays in utility systems
[DE84-005817] 12 p1813 N84-21817
Input filter compensation for switching regulators
[NASA-CR-173557] 15 p2327 N84-24975

FEELINGS
U SENSORY FEEDBACK

FEMALES
Women at work and stress
[R/PERS-626] 04 p0573 N84-13777
Cognitive components underlying the digit symbol test
[PB83-250464] 04 p0574 N84-13779
Overuse injuries of the lower extremities associated with marching, jogging and running. A review
[AD-A134672] 08 p1200 N84-17824
The objective evaluation of aircrew protective breathing equipment. 5: Mask/goggles combinations for female crewmembers
[AD-A134912] 08 p1201 N84-17830
Changes in attitudes toward women at the Air Force Academy
[AD-P003261] 18 p2906 N84-28428
Risk-taking performance of military personnel: Sex differences and practice effects
[AD-P003262] 18 p2906 N84-28429
Upper body exercise performance: Comparison between women and men
[AD-A142330] 19 p3066 N84-29454
Women in the sciences
[TB-83-8] 19 p3114 N84-29784
First mixed crew in space 21 p3454 N84-31917
Anthropometric and mass distribution characteristics of the adult female, revised
[AD-A143096] 21 p3457 N84-31939
NASA Ames summary high school apprenticeship research program, 1983 research papers
[NASA-TM-85931] 22 p3684 N84-33365
Upper to lower body muscular strength and endurance ratios for women and men
[AD-A143821] 23 p3811 N84-34168

FEMUR
High resolution bone mineral densitometry with a gamma camera
[NASA-TM-85386] 18 p2899 N84-28391
Ultrasonography of canine soft tissues during decompression 20 p3254 N84-30653

FERMENTATION
Nutritional and environmental factors in ethanol fermentation by Saccharomyces cerevisiae
[DE84-009693] 20 p3167 N84-30110

FERMI LIQUIDS
Specific heat of He-3 in the Fermi-liquid region
[DE83-014858] 08 p1162 N84-17566

FERMIONS
NT ANTINEUTRINOS
NT BARYONS
NT CONDUCTION ELECTRONS
NT FAST NEUTRONS
NT LEPTONS
NT MUONS
NT NEUTRINOS
NT NEUTRONS
NT PROTONS
NT SOLAR NEUTRINOS
NT SOLAR PROTONS
NT THERMAL NEUTRONS
Impurities in the heavy-Fermion superconductor UBe13
[DE84-001731] 05 p0755 N84-14951
Formulae for configuration averages of products of 1-body and 2-body operators in many-fermion spaces
[DE84-002634] 08 p1221 N84-17971
Supersymmetry in physics: An algebraic overview
[DE84-007289] 15 p2399 N84-25395
Staggered fermions and rotation-gauge invariance
[PREPRINT-357] 20 p3297 N84-30937
Some negative results for avoiding lattice fermionic doubling
[PREPRINT-358] 20 p3297 N84-30938
Numerical calculations in quantum field theories
[DE84-010892] 21 p3507 N84-32217

FERRIC IONS
Iron charge states observed in the solar wind
03 p0473 N84-13112
Spatial variation of iron abundance in the high speed solar wind, 1972 to 1976 03 p0473 N84-13113

FERRIMAGNETISM
Large-signal amplifier based on ferrimagnetic echo
21 p3378 N84-31440

FERRIMAGNETS
Magnetic-field considerations in superferric dipole
[DE84-002573] 06 p0907 N84-15892

FERRITES
High-Q perpendicular-biased ferrite-tuned cavity
[DE83-017291] 04 p0529 N84-13478
A digital ferrite phase-shifter for high power S-band operation 06 p0906 N84-15886
Effect of heat treatment on the impact properties of a 12Cr-1Mo-V-W steel
[DE84-003440] 07 p0976 N84-16324

Swelling behavior of a simple ferritic alloy
[DE84-003162] 07 p0976 N84-16329
Barriers to the migration of interphase boundaries
[AD-A137902] 11 p1633 N84-20679
Comparison of predicted versus experimentally-determined stresses for crack initiation of surface flaws in a 304 stainless steel and a ferritic steel
[DE84-005481] 11 p1634 N84-20680
Tesla computer semiconductor memory 18 p2918 N84-28501
Properties of ferrites important to their friction and wear behavior
[NASA-TM-83718] 19 p2997 N84-28994
Directional growth of pearlite in Fe-C eutectoid alloys
[DE84-007368] 20 p3156 N84-30042
A study of distributed millimeter-wave isolators
[AD-A142729] 20 p3179 N84-30189
Precision cutting of millimeter wave ferrite materials
[AD-D011179] 24 p3891 N84-34639

FERRITIC STAINLESS STEELS
Investigation of microstructural changes in ferritic stainless steels caused by high-temperature deformation
[DE83-015331] 01 p0046 N84-10296
Continuous annealing of a Fe/0.1C/0.45Si/0.1Mo dual-phase steel
[DE83-015984] 01 p0047 N84-10300
Tensile behavior of three commercial ferritic steels after low-temperature irradiation
[DE83-014044] 02 p0195 N84-11264
Low activation approaches to materials development
[DE83-015972] 02 p0196 N84-11273
Corrosion of ferrous alloys in eutectic lead-lithium environments
[DE84-000593] 04 p0502 N84-13292
In-reactor creep behavior of selected ferritic alloys
[DE83-017005] 07 p0976 N84-16322
A microstatistical model for carbide induced cleavage fracture — of steels
[VTT-RR-220] 07 p1017 N84-16599
Effect of specimen size and nickel content on the impact properties of 12 Cr-1 MoVW ferritic steel
[DE84-003270] 08 p1134 N84-17377
Use of phase transformations in the design of alloy steel
[DE84-003050] 10 p1462 N84-19550
Austenitizing and microstructure of a HT-9 steel
[DE84-004914] 11 p1635 N84-20687
Experimental verification of constitutive equations for plasticity under biaxial, cyclic and nonradial loading conditions — of austenitic steel
[REPT-5011202-81-1] 17 p2625 N84-26798
Cladding of carbon steel with stainless steel
[BMFT-FB-T-84-030] 18 p2816 N84-27877
Microstructural evaluation of a ferritic stainless steel by small angle neutron scattering
[DE84-009487] 19 p2995 N84-28980
Sulfidation- and oxidation-resistant ferritic stainless steel containing aluminum
[PB84-189521] 20 p3165 N84-30101
Effect of precipitated austenite on the fracture of a ferritic cryogenic steel
[DE84-014604] 22 p3557 N84-32521
Ion bombardment damage in a modified Fe-9Cr-1Mo steel
[DE84-014288] 22 p3557 N84-32522
Low-chromium heat-resisting ferritic alloys strengthened by the Chi Phase
[PB84-199041] 22 p3557 N84-32524

FERROALLOYS
U IRON ALLOYS

FERROELECTRICITY
Switching-speed improvements in PLZT shutters
[DE83-013096] 02 p0214 N84-11403
Targeted basic studies of ferroelectric and ferroelastic materials for piezoelectric transducer applications
[AD-A132136] 04 p0526 N84-13461
Targeted basic studies of ferroelectric and ferroelastic materials for piezoelectric transducer applications
[AD-A132262] 04 p0612 N84-14043
Temperature dependent hysteresis study in polyvinylidene fluoride
[AD-A132675] 05 p0659 N84-14331
Rigorous bounds for the calculated dielectric constants of ferroelectric polymers
[AD-A132741] 05 p0659 N84-14332
Report of significant accomplishments. Joint services electronics program of the Edward L. Ginzton laboratory
[AD-A133360] 07 p0998 N84-16469
Theory of dynamic ferroelectricity
[DE84-002609] 08 p1152 N84-17500
Dynamic fragmentation of ferroelectric ceramics using the torsional Kolsky bar
[DE84-003726] 09 p1289 N84-18415
Stress corrosion of ceramic materials
[AD-A136729] 10 p1467 N84-19581
Some recent results in wave propagation
[DE84-003107] 10 p1482 N84-19686
Research on ferroelectric materials for millimeter wave application
[AD-A137128] 10 p1588 N84-20405
Improper ferroelectricity: A theoretical and experimental investigation
[AD-A138401] 12 p1898 N84-22362
Temperature-compensated piezoelectric materials
[AD-A139279] 14 p2242 N84-24460
Piezoelectric properties and ferroelectric hysteresis effects in unaxially stretched Nylon-11 films
[AD-A140683] 17 p2768 N84-27575
Research on the crystal growth and dielectric properties of high permittivity ferroelectric materials
[AD-A142125] 19 p3111 N84-29767
New lasing ferroelectric material Pb5Ge3O11-Nd-3(+) 20 p3288 N84-30875
Research and crystal growth on high dielectric constant materials for mm wave applications
[AD-A144412] 24 p3967 N84-35119

FERROFLUIDS
Dual rotating shaft seal apparatus
[DE84-011101] 20 p3197 N84-30307
Linear motion valve
[NASA-CASE-MSC-20148-1] 22 p3603 N84-32823

FERROMAGNETIC FILMS
Magneto-optical studies of epitaxial EuS films and (EuS/SrS) layer systems
[JUEL-1910] 23 p3831 N84-34302

FERROMAGNETIC MATERIALS
NT FERROFLUIDS
NT FERROMAGNETIC FILMS
NT MAGNETITE
Muon spin relaxation in ferromagnetic PdMn
[DE83-012659] 03 p0453 N84-12979
Low-hysteresis materials for magnetic refrigeration: Gd sub 1-x/Er sub x/Al2
[DE84-001685] 04 p0505 N84-13307
Pressure quenched excitonic solids
[AD-A133817] 05 p0753 N84-14940
Comparison of fracture-toughness measurements from ferritic-steel compact-tension and surface-flawed specimen
[DE84-000895] 06 p0804 N84-15240
The theory of an active magnetic regenerative refrigerator 06 p0821 N84-15351
Problems in the development of high-power turbogenerators with superconducting field windings
[AD-A136525] 09 p1325 N84-18657
Annealing effects in ferromagnetic amorphous alloys
[AD-A136843] 10 p1460 N84-19534
Stability of permanent magnets
[AD-A139471] 14 p2220 N84-24320
Dynamics of itinerant ferromagnets above T sub c
[DE84-002695] 15 p2402 N84-25420
Magnetic excitations in transition-metal ferromagnets. Recent progress and future prospects on neutron scattering experiments
[DE84-008808] 18 p2928 N84-28566
Band structure effects in the electronic properties of solids assessible in neutron scattering studies
[DE84-008557] 18 p2941 N84-28654
Introduction to neutron scattering by magnetic excitations
[DE84-008579] 20 p3293 N84-30904
Electromagnetic excitation of sound in metals 21 p3484 N84-32082
Anomalous surface impedance in reentrant ferromagnetic superconductors
[DE84-012634] 22 p3664 N84-33230
Investigations of magnetic wires for sensor applications
[BMFT-FB-T-84-110] 23 p3752 N84-33787
Selection rules for the spontaneous phase transitions in magnetoelastic metamagnets
[DE84-701200] 24 p3960 N84-35070

FERROMAGNETIC RESONANCE
Research support for plasma diagnostics on Elmo Bumpy Torus - development of a multichannel Hall-probe based diamagnetic diagnostic instrument and observation and modeling of EBT electron rings
[DE84-008810] 18 p2933 N84-28600
Detection of NH-2O-radicals by far-infrared laser magnetic resonance spectroscopy
[MPIS-6/1984] 20 p3151 N84-30010

FERROMAGNETISM
Universality and fractal dimension of mode locking structure in systems with competing periodicities
[DE83-017352] 03 p0390 N84-12545
Neutron-scattering studies of magnetic superconductors
[DE84-000393] 04 p0614 N84-14054
Metallurgical explanation of double magnetic transitions and allied phenomena in AuFe alloys
[DE84-002024] 05 p0657 N84-14317
Method of high-temperature expansions in short-range order theory
[BLL-M-35385-(5828.4)] 08 p1129 N84-17344
Calculating the magnetic field from a saddle-shaped coil without a ferromagnetic circuit
[AD-A134776] 08 p1226 N84-18011
Design and characterization of Mn-Al-C alloys for permanent magnet applications
[DE84-004881] 10 p1461 N84-19542
Structural phase transitions at high pressure: Quantum effects
[DE84-005724] 11 p1745 N84-21390
Optically induced changes in the Faraday rotation spectra of the ferromagnetic semiconductor CdCr/sub 2/Se/sub 4 14 p2233 N84-24396
Spin correlations near the ferromagnetic to spin glass crossover
[DE84-007385] 15 p2299 N84-24799
Supersymmetric statistical models on the lattice
[DE84-008758] 15 p2414 N84-25494
Magnetic excitations in transition-metal ferromagnets. Recent progress and future prospects on neutron scattering experiments
[DE84-008808] 18 p2928 N84-28566
Monte Carlo simulation of the microcanonical ensemble
[DE84-010880] 20 p3295 N84-30923
Thermomagnetic properties of GdPd
[DE84-009991] 22 p3556 N84-32515

FERROUS METALS
Resistance to robots in Soviet metallurgical plants noted 14 p2188 N84-24109
Development of ferrous metallurgy described 23 p3707 N84-33499

FERTILIZATION
Effects of simulated weightlessness on mammalian development. Part 1: Development of clinostat for mammalian tissue culture and use in studies on meiotic maturation of mouse oocytes 09 p1357 N84-18868

FERTILIZERS
Method of production of nitrophosphates
[CSIR-TRANS-1689] 01 p0036 N84-10225
USSR report: Chemistry
[JPRS-UCH-84-007] 24 p3867 N84-34508

FET (TRANSISTORS)
U FIELD EFFECT TRANSISTORS

FETUSES
Glycosaminoglycans in fetal bone mineralization 23 p3809 N84-34156

FEVER
Hyperpyrexia and head trauma
[AD-A139420] 14 p2185 N84-24090

FFT
U FAST FOURIER TRANSFORMATIONS

FIBER COMPOSITES
NT CARBON FIBER REINFORCED PLASTICS
NT GLASS FIBER REINFORCED PLASTICS
Fatigue of fiber composites
[FFA-TN-1983-30] 03 p0348 N84-12260
The mechanics of delamination in fiber-reinforced composite materials. Part 2: Delamination behavior and fracture mechanics parameters
[NASA-CR-172270] 04 p0491 N84-13222
Strength theories of continuous and discontinuous fiber composites 06 p0797 N84-15195
Some thoughts on 3-D isoparametric elements
[ARL-STRUC-NOTE-489] 07 p1059 N84-16860
Characterization of fiber composite flywheels by ultrasonic imaging techniques
[DE84-004689] 10 p1452 N84-19487
On the optical assessment of the void content in composite materials
[RAE-TM-MAT/STR-1024] 12 p1789 N84-21664
Aramid Aluminum Laminate (ARALL): A material for the next generation of aircraft, a state of the art
[VTH-LR-400] 12 p1790 N84-21674
Review report of the third year's activities on the study survey of advanced materials — for spacecraft and launch vehicles
[R878] 12 p1790 N84-21675
An assessment of the static strength of flush head aluminum alloy rivets in two grades of aramid aluminium laminate (ARALL) sheet
[VTH-LR-391] 12 p1827 N84-21913
Select fiber composites for space applications: A mechanistic assessment
[NASA-TM-83631] 13 p1954 N84-22702
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-3] 13 p1961 N84-22745
Optimization of space structures 14 p2245 N84-24480
Impact resistance of fiber composites: Energy absorbing mechanisms and environmental effects
[NASA-TM-83594] 15 p2284 N84-24712
Fatigue damage and crack growth in random short-fiber reinforced composites 15 p2308 N84-24847

A probabilistic theory for the strength of discontinuous fibre composites 15 p2308 N84-24848
The effective behavior of inelastic composites 15 p2308 N84-24850
Application of stress-generated heat in composites to thermographic NDT 15 p2310 N84-24864
Observations on the fracture of fibercus composites 15 p2311 N84-24865
Stresses in and around double confocal spheroids embedded in infinite media 15 p2314 N84-24583
Dynamic stress analysis of smooth and notched fiber composite flexural specimens
[NASA-TM-83694] 16 p2460 N84-25770
A rear engine without joints and pillows
[MBB-UD-383-83-O] 16 p2563 N84-26441
ICAN: Integrated composites analyzer
[NASA-TM-83700] 17 p2618 N84-26755
Interply layer degradation effects on composite structural response
[NASA-TM-83702] 17 p2618 N84-26756
Studies of acoustical properties of bulk porous flexible materials
[NASA-CR-173622] 17 p2762 N84-27544
Acoustic structure and propagation in highly porous, layered, fibrous materials 17 p2762 N84-27546
Absorptive surfaces of extended reaction angle of incidence considerations 17 p2763 N84-27547
Method and apparatus for gripping uniaxial fibrous composite materials
[NASA-CASE-LEW-13758-1] 18 p2808 N84-27829
Progressive fracture of fiber composites
[NASA-TM-83701] 18 p2809 N84-27831
Simplified composite micromechanics equations for strength, fracture toughness and environmental effects
[NASA-TM-83696] 18 p2809 N84-27832
Application of finite element substructuring to composite micromechanics
[NASA-TM-83729] 21 p3356 N84-31288

FIBER OPTICS

Use of fiber optics and laser-induced fluorescence for remote measurements of UF6 in strong rotation
[DE83-014195] 01 p0088 N84-10575
Investigation of optical fibers for nonlinear optics
[AD-A130656] 01 p0147 N84-10965
Broadband communication with fiber optic channels
[BMFT-FB-T-83-118] 02 p0211 N84-11377
Finite-element approach to guided wave problems
[AD-A131623] 02 p0213 N84-11396
Optical fiber tactile sensor
[NASA-CASE-NPO-15375-1] 02 p0293 N84-11921
Great prospects for fiber optics sensors
[NASA-TM-77357] 02 p0293 N84-11922
Optical cable-electrical cable hybrid transmission system. The videophone: The optical cable transmission part
[AD-A131012] 02 p0294 N84-11924
FOSS (Fiber Optic Sensor System) FDM (Feasibility Demonstration Model) electrooptical tow cable termination
[AD-A131319] 02 p0294 N84-11925
Fiber optics expanded beam connector
[AD-A131125] 02 p0294 N84-11929
Radiation damage in optical fibers
[DE83-012740] 02 p0295 N84-11932
Single-mode fiber-optic sensor for high currents
[DE83-014163] 02 p0295 N84-11933
Prototype fiber optic system to remote TRACALS radar
[AD-A132073] 03 p0360 N84-12341
Novel optical pin using microballoons
[DE83-015222] 03 p0367 N84-12391
Real-time attenuation of heated optical fibers in a nuclear reactor
[DE83-015141] 03 p0438 N84-12873
Ultra low loss optical fiber cable assemblies, volume 2
[AD-A132006] 03 p0440 N84-12891
Ultra low loss optical fiber cable assemblies, volume 1
[AD-A132007] 03 p0440 N84-12892
Evaluation of multicomponent fluoride glass candidates for double crucible drawn optical fiber
[AD-A131932] 03 p0441 N84-12893
Process, product, and waste-stream monitoring with fiber optics
[DE83-001102] 03 p0441 N84-12899
Attenuation measurements between 840 and 1620 nm on an optical cable in Berlin
[FI-465-TBR-22] 03 p0442 N84-12908
Economic study of long distance optical fibre links
[FUB-38-1982] 03 p0443 N84-12908
Detectors for optical communications: A review 04 p0518 N84-13404
NOVANET: Communications network for a control system
[DE83-013662] 04 p0523 N84-13436
Preparation of infrared optic fibers using new materials
[AD-A132311] 04 p0604 N84-13988
Fiber optics temperature and pressure probe
[DE84-001785] 04 p0605 N84-13990
Instrumentation for remote sensing over fiber optics
[DE84-001788] 04 p0605 N84-13991
Fiberoptics for propulsion control system
[NASA-TM-83542] 05 p0625 N84-14111
Flight evaluation of a linear optical displacement transducer
[AD-A132638] 05 p0630 N84-14141
A high performance fiber optic telemetry link for use in a space radiation simulator
[AD-A132738] 05 p0643 N84-14232
Optical fibre links for digital YUV signals
[BBC-RD-1983/14] 05 p0665 N84-14372
Derated application of parts for (Electronic System Division) systems development
[AD-A133680] 05 p0674 N84-14429
Optical analog repeater development for a one GHz bandwidth recirculating delay line
[AD-A133658] 05 p0675 N84-14437
Multiwavelength bidirectional coupler-decouplers
[AD-A132908] 05 p0747 N84-14907
Optical multiplexers and demultiplexers for optical wavelength-division multiplex transmission systems
[BMFT-FB-T-83-167] 05 p0748 N84-14912
Measurement of multimode optical fiber attenuation
[PB83-151207] 05 p0748 N84-14913
Bidirectional fiber optic cable adapter
[AD-A133371] 06 p0824 N84-15370
All-fiber gyroscope with optical-Kerr-effect compensation 06 p0846 N84-15518
AlGaAsSb vapor phase epitaxy and laser program
[AD-A133123] 06 p0922 N84-15995
Optical fiber lightguide sensing for gimbal pickoffs
[AD-A133343] 07 p0950 N84-16161
Field expedient repair of fiber optic cables
[AD-A134276] 07 p0985 N84-16382
The preparation of low-loss optical fiber with microwave plasma activated chemical vapor deposition process
[AD-A134260] 07 p1076 N84-16994
Fourier transform and polychromator studies of the inductively coupled plasma
[DE84-003975] 08 p1233 N84-18059
Research on new approaches to optical systems for inertial rotation sensing
[AD-A136045] 09 p1254 N84-18186
Communications 09 p1269 N84-18285
Feasibility of remoting BRITE 2 via fiber optics
[AD-A135858] 09 p1389 N84-19071
Intrinsic and extrinsic properties of fiber optic sensor materials
[AD-A135893] 09 p1389 N84-19072
Evaluation of NRL glass for fiber optics, phase 2
[AD-A136017] 09 p1390 N84-19076
Transversely anisotropic optical fiber: Variationoal analysis of a nonstandard eigen problem
[REPT-S-133] 09 p1390 N84-19080
Asymptotic analysis of weakly guiding anisotropic optical fibers
[REPT-S-136] 09 p1390 N84-19081
Sensitive collinear laser spectroscopy on fast atom and ion beams
[DE84-003403] 10 p1456 N84-19512
Fiber optics technology working group report IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study. Part 1: Executive summary
[AD-A137333] 10 p1504 N84-19831
Fiber-optic communications systems
[AD-A137138] 11 p1644 N84-20749
Progress in research in electronics engineering: Technical review
[DE84-006389] 11 p1647 N84-20772
Proceedings of the 32d International Wire and Cable Symposium
[AD-A136749] 11 p1719 N84-21212
Bell System lightguide cable interconnection equipment, central office to customer premises 11 p1720 N84-21219
Field trial of composite fiber-optic overhead ground wire 11 p1720 N84-21221
Factory splicing of optical waveguide fiber 11 p1720 N84-21222
Development of composite fiber-optic electric-power umbilical cable and optical feedthrough for deep ocean mining 11 p1722 N84-21231
Analysis of excess attenuation in optical fibers subjected to low temperatures 11 p1722 N84-21232
Buckling of optical fibers within elastomers used in an embedded-core cable structure 11 p1722 N84-21233
Design aspects of loose buffer tube fiber optics cable 11 p1722 N84-21234
Non-metallic optical cable with optical fiber catenary for long span aerial application 11 p1722 N84-21235
Non-metallic long span aerial cable with optical fibres for the use at 1.3 micrometers 11 p1722 N84-21236
Cylindrical v-grooved non-metallic optical fibre cable 11 p1723 N84-21242
Design and test results of optical fiber units for optical submarine cable 11 p1723 N84-21243
Metal-free cylindrical v-grooved optical cable 11 p1724 N84-21244
Design, fabrication and testing of a ruggedized fiberoptic cable 11 p1724 N84-21245
A rodent and lightning protective sheath for fiber optic cables 11 p1724 N84-21246
A radically new approach to the installation of optical fibre using the viscous flow of air 11 p1724 N84-21247
A practical single-mode system, 50 km at 140 mbit/s 11 p1725 N84-21253
Performance characteristics of VAD single mode fibers in mass production basis 11 p1725 N84-21254
Recent developments in mini-unit cable 11 p1725 N84-21255
Manufacture cables with low losses 11 p1725 N84-21256
A field splicing system for single-mode optical fiber 11 p1726 N84-21257
Optical and mechanical properties of single mode cables at 1300 nm 11 p1726 N84-21258
A new engineering approach for cable in fire situations using halogenated polymers 11 p1726 N84-21259
Characteristics of heat and flame resistant optical fiber cables 11 p1726 N84-21260
Cable fire studies using the Ohio State University release rate apparatus 11 p1726 N84-21261
Circuit transmission integrity of plenum cables in a developing fire scenario 11 p1726 N84-21262
Large scale fire test of cable installed in tunnels 11 p1727 N84-21263
Overall fire safer 11 p1727 N84-21264
Fracture mechanics evaluation of the static fatigue life of optical fibers in bending 11 p1727 N84-21265
Computerised optical fibre characterisation 11 p1727 N84-21266
Remote-ended time domain bandwidth measurements on installed regenerator sections of multimode optical fibre cable in the British Telecom Network 11 p1727 N84-21267
Development of short-distance optical transmission cord 11 p1727 N84-21268
Thermal properties of loose tube secondary coated optical fibres experimentally discussed by a relative light pulse delay technique 11 p1727 N84-21269
Breakout cables for short haul fiber optic systems 11 p1726 N84-21270
Linearization of an analog fiber-optic system using the quasi-feedforward technique
[AD-A137529] 11 p1731 N84-21294
Current sensing in magnetic fusion experiments by Faraday rotation in single-mode optical fibers
[DE84-004326] 11 p1732 N84-21298
Extraction of rotation information from a simulated fiber optic gyro using amplitude modulation
[AD-A138092] 12 p1767 N84-21528
Study of a satellite communication system for wideband communications: Executive summary
[ESA-CR(P)-1839] 12 p1809 N84-21795
Diode pumped fiber laser
[AD-A138198] 12 p1820 N84-21866
East Europe report: Scientific affairs
[JPRS-ESA-84-010] 12 p1897 N84-22356
Fiber-optics symposium, scientific agreement describe 12 p1897 N84-22358
Magneto-optic garnet and liquid crystal optical switches 12 p1905 N84-22410
Optical residue addition and storage units using a Hughes liquid crystal light valve 12 p1906 N84-22417
Analog fiber optics: Pragmatic considerations beyond the textbook
[AD-A137528] 12 p1908 N84-22430
Advanced diagnostics for reacting flows 13 p1943 N84-22637
Transmitting two-level balanced code within the bandwidth of straight binary code-transmission 13 p2039 N84-23231
C3I modeling and simulation
[AD-A139264] 14 p2140 N84-23830
Fiberoptic probe for measuring high frequency temperature fluctuations in combustion gases
[DE84-006784] 14 p2148 N84-23869
Fiber optic sensors
[NASA-TM-77404] 14 p2224 N84-24346
A feasibility study of the production of low loss IR fibers in space
[NASA-CR-173430] 14 p2225 N84-24351

A study of the mechanics of radiation damage in fiber optical waveguides
[AD-A139590] 14 p2225 N84-24352
Optical fiber characterization: Attenuation, frequency domain bandwidth, and radiation patterns, volume 2
[PB84-158914] 14 p2226 N84-24357
Optical fibers and components experiment (A0138-7)
15 p2278 N84-24683
Fiber optic data transmission experiment (S0109)
15 p2279 N84-24688
Space environment effects on fiber optics systems
15 p2279 N84-24689
Laser pulse detection method and apparatus
[NASA-CASE-NPO-16030-1] 15 p2339 N84-25037
Advances in strapdown sensors
16 p2446 N84-25693
Use of fiber light guides for evaluation of precision characteristics of pulsed laser range finders
17 p2637 N84-26870
Innovative research in the design and operation of large telescopes for space: Aspects of giant telescopes in space 17 p2765 N84-27560
Connector and cable assembly specifications for the SHAPE fiber optic network
[AD-A141280] 18 p2932 N84-28593
Analog fiber gyro with extended linear range
[AD-D011009] 19 p2962 N84-28771
The production and evaluation of high-strength optical fibre 19 p3104 N84-29717
Minutes of the Fiber Optics Standardization Planning Meeting
[AD-A142152] 19 p3104 N84-29722
Fiber optic bundle towed array
[AD-D011034] 19 p3105 N84-29724
Signal processor for remote optical interferometric sensors
[AD-D011045] 19 p3105 N84-29726
Fiber optic lever towed array
[AD-D011047] 19 p3105 N84-29727
Fiber optic current probe
[DE84-007964] 19 p3105 N84-29729
Phase conjugate optics
[AD-A141960] 20 p3299 N84-30951
Omnidirectional fiber optic tiltmeter
[DE84-011109] 20 p3300 N84-30959
Two novel plasma diagnostics — single mode optical fiber sensors and phase conjugation in nonlinear optics
[DE84-009970] 20 p3305 N84-30990
Fiber optics for the future - wavelength division multiplexing
[AD-P003579] 21 p3339 N84-31184
Fiber optic light guides based on polymer coated multicomponent glasses 21 p3487 N84-32100
A study of the drawing process for optical fibers
[AD-A142930] 21 p3498 N84-32171
Raman investigation of the rate of OH uptake in stressed and unstressed optical fibers
[AD-A143142] 21 p3498 N84-32172
A multi-GHz multi-channel photonic analog data processing system
[DE84-012281] 21 p3499 N84-32175
Radiation effects in optoelectronic devices
[DE84-012889] 21 p3499 N84-32176
Measurement of multimode optical fiber attenuation: An NBS special test service
[PB84-192202] 21 p3499 N84-32179
Fiber optic helmet mounted display: A cost effective approach to full visual flight simulation
[AD-P003482] 21 p3512 N84-32249
Optical fiber termination and splicing techniques
[DE84-013919] 22 p3564 N84-32572
Peculiarities in construction of optical receivers for digital fiber-optic communication lines
22 p3568 N84-32596
Signal waveform detector using synthetic FM demodulation
[AD-D011055] 22 p3572 N84-32618
Fiber optic magnetometer for the detection of dc magnetic fields without hysteretic ambiguity
[AD-D011085] 22 p3599 N84-32794
West Europe report: Science and technology
[JPRS-WST-84-030] 22 p3651 N84-33141
Sweden: Optical fiber carries laser power for welding
22 p3651 N84-33144
Fiber optic sensor with enhanced immunity to random environmental perturbations
[AD-D011115] 22 p3656 N84-33174
Low loss splicing method for single-mode optical fiber
[NASA-CASE-NPO-16294-1] 22 p3656 N84-33179
Definition, analysis and development of an optical data distribution network for integrated avionics and control systems. Part 2: Component development and system integration
[NASA-CR-172429] 22 p3657 N84-33181
Investigation of optical fibers for nonlinear optics
[AD-A143565] 22 p3657 N84-33185
Communication networks 22 p3683 N84-33356
The application of fiber optics in aircraft instrumentation: Technology assessment
[NLR-TR-83048-U] 23 p3694 N84-33409
Development of particle sizing for highly concentrated colloidal dispersions using photon correlation spectroscopy
[BMFT-FB-T-84-117] 23 p3716 N84-33553
Optical fiber gyroscope with (3x3) directional coupler
[AD-D011152] 23 p3750 N84-33771
Hermetic single longitudinal mode CW lasers coupled to single mode optical fiber pigtails
[AD-A143626] 23 p3754 N84-33792
Fiber optic rotation-sensing gyroscope with (3x2) coupler
[AD-D011195] 24 p3902 N84-34706
Optical fiber splice sled
[AD-D011180] 24 p3910 N84-34767
Gated fiber optic transmission
[AD-D011197] 24 p3963 N84-35094
Large diameter optical slip-rings
[WSRL-0342-TM] 24 p3963 N84-35095
Analytic models for radiation induced loss in optical fibers
[AD-A144630] 24 p3964 N84-35100

FIBER ORIENTATION

Transient heat flow across uni-directional fibers in composites
[AD-A131052] 01 p0032 N84-10199
A simple approach to determination of stiffness characteristics of unidirectional composites
[NASA-TM-77086] 07 p0967 N84-16263
Crack-growth resistance of laminated hybrid composites 15 p2311 N84-24868
A new approach to the evaluation of the effects of stress state and interfacial properties on the behavior of advanced metal matrix composites
[AD-A143083] 21 p3357 N84-31264
Numerical techniques for the prediction of flow induced orientation 22 p3591 N84-32743
Evaluation of the effects of stress state and interfacial properties on the behavior of advanced metal matrix composites
[AD-A143911] 23 p3711 N84-33525

FIBER REINFORCED COMPOSITES

Curing of graphite/epoxy composites
01 p0030 N84-10186
Curing of graphite/epoxy composites
[AD-A130071] 01 p0030 N84-10191
Nondestructive FT-IR sampling technique to study glass fiber composite interfaces
[AD-A129871] 01 p0031 N84-10192
Structure and properties of intercalated graphite fiber-polymer composites
[AD-A130832] 01 p0032 N84-10198
Transient heat flow across uni-directional fibers in composites
[AD-A131052] 01 p0032 N84-10199
Quality control and nondestructive evaluation techniques for composites. Part 2: Physiochemical characterization techniques, a state-of-the-art review
[AD-A131038] 01 p0032 N84-10200
Methods of improving the matrix dominated performance of composite structures: A technical review
[AD-A131257] 01 p0032 N84-10201
Monitoring of defect progression by acoustic emission
01 p0033 N84-10206
Experimental investigation of delaminations in carbon fibre composite 01 p0033 N84-10209
An empirical appraisal of defects in composites — helicopter tail rotor blades 01 p0034 N84-10211
Surface analysis of graphite fiber reinforced polyimide composites
[NASA-TM-85700] 02 p0188 N84-11220
Torsion characteristics of isotropic and carbon fiber reinforced carbons
[REPT-35] 02 p0189 N84-11226
Review of aircraft crash structural response research
[AD-A131696] 03 p0331 N84-12160
Composite structural materials
[NASA-CR-174597] 03 p0347 N84-12257
Multiplane finite element method: Applications to fiber reinforced material 03 p0348 N84-12261
The mechanics of delamination in fiber-reinforced composite materials. Part 1: Stress singularities and solution structure
[NASA-CR-172269] 04 p0491 N84-13221
The mechanics of delamination in fiber-reinforced composite materials. Part 2: Delamination behavior and fracture mechanics parameters
[NASA-CR-172270] 04 p0491 N84-13222
Fiber composite materials research in the UK: Assessment report
[AD-A132386] 04 p0492 N84-13226
Continuous plasma treatment and resin impregnation of a high-strength fiber material
[DE84-000314] 04 p0492 N84-13229
Economic production of aircraft structures made of fiber reinforced materials
[MBB-UT-23-82-OE] 05 p0625 N84-14109
Torsional vibration measurements on fiber reinforced composites
[MBB-BB-524-82-OE] 05 p0645 N84-14240
Topics in graphite intercalation chemistry with applications to fiber reinforced composites
05 p0648 N84-14248
Bending fatigue of a particulate SiC/Al 6061 metal matrix composite
[AD-A134108] 05 p0653 N84-14293
Polyester fiber reinforcement of thermosetting molding compounds
[BMFT-FB-T-83-155] 05 p0661 N84-14342
Fracture toughness of fiber reinforced concrete
[AD-A133809] 05 p0692 N84-14547
Stiffness changes in unidirectional composites caused by crack systems
[CA-8311] 06 p0798 N84-15198
Status of fiber reinforced materials
06 p0799 N84-15209
Mechanical property characterization of F-100/934 graphite-epoxy composite material
06 p0928 N84-16031
Size effect and strength variability of unidirectional composites
[AD-A134171] 07 p0967 N84-16268
Use of shear lag for composite microstress analysis - linear array
[AD-A134174] 07 p0967 N84-16269
A literature survey of the electrical resistance and thermal properties of modern composites and of the fibers and matrices that constitute them
[FOA-C-20505-D6(F9)] 07 p0968 N84-16274
Buckling of rectangular specially orthotropic plates
[ESDU-80023] 07 p1014 N84-16577
Effects of high energy radiation on the mechanical properties of epoxy graphite fiber reinforced composites
[NASA-CR-173293] 08 p1122 N84-17292
Plasma modification of graphite fibers and its effect on composite properties
[AD-A136558] 09 p1276 N84-18329
Hygrothermal effects in continuous fibre reinforced composites. Part 2: Physical properties
[AD-A135766] 09 p1276 N84-18331
Hygrothermal effects in continuous fibre reinforced composites. Part 3: Mechanical properties 1 - static tests
[AD-A135767] 09 p1276 N84-18332
Hygrothermal effects in continuous fibre reinforced composites. Part 4: Mechanical properties 2 - fatigue and time-dependent properties
[AD-A135768] 09 p1276 N84-18333
An assessment of the accuracy of orthotropic photoelasticity
[NASA-CR-3773] 10 p1516 N84-19924
Recursion formulas and limit theorems for the lifetime distribution of a model fibrous composite
11 p1626 N84-20645
An investigation of some basic properties of hybrid composite materials
[AD-A138040] 12 p1789 N84-21669
A survey of macroscopic failure criteria for composite materials
[AD-A138091] 12 p1789 N84-21670
Axial test methods development for 3-D cylindrical-weave carbon-carbon composite materials
[AD-A138221] 12 p1790 N84-21672
Nondestructive ultrasonic investigation of modern fiber reinforced composites
[VTH-LR-382] 12 p1824 N84-21893
Large deformation behavior of long shallow cylindrical composite panels
[NASA-CR-173286] 13 p2000 N84-22975
Shear-lag analysis of notched laminates with interlaminar debonding
[NASA-CR-3798] 14 p2119 N84-23697
The use of Arall in fuselage skins
[AD-B080831] 15 p2260 N84-24572
Tensile impact testing of fibre-reinforced composites
15 p2316 N84-24901
Journal of aeronautical materials (selected articles)
[AD-A140167] 16 p2434 N84-25610
Journal of aeronautical materials (selected articles)
[AD-A140181] 16 p2434 N84-25611
A new method of analysis of composite structures
[SNIAS-832-210-105] 16 p2461 N84-25773
Silicon carbide fiber/mullite composites from rapidly solidified aluminosilicate powder
[AD-A140529] 16 p2469 N84-25825

The industry's materials: SNIAS and general conditions of its environment
[SNIAS-832-502-101] 16 p2475 N84-25865
Roll-truision (RT*) of composite structures
[AD-A140836] 17 p2618 N84-26757
Development of high modulus polydiacetylene fibres for use in fibre-reinforced composites
[AD-A140912] 17 p2627 N84-26809
Stress decay in an orthotropic half-plane under self-equilibrating sinusoidal loading
[NASA-TM-85791] 17 p2679 N84-27066
Evaluation of two polyimides and of an improved liner retention design for self-lubricating bushings
[NASA-TM-83719] 18 p2817 N84-27867
Analytical model of strength loss in filament wound spherical vessels
[DE84-010213] 19 p2966 N84-28923
Cutting of fiber reinforced polymers with a CW CO-2 laser: An experimental study
[FOA-C-20527-D9] 19 p3030 N84-29220
Fabrication of pressure vessels from fiber reinforced aluminum by electroforming for space application
[BMFT-FB-W-84-009] 19 p3032 N84-29235
Comparison of toughened composite laminates using NASA standard damage tolerance tests 20 p3145 N84-29972
Single and multiple fiber models for fracture of fibrous composites 21 p3356 N84-31286
Evaluation of a vibration technique for detection of barely-visible impact-damage in composites
[AD-A142807] 21 p3357 N84-31293
A shear deformable shell element for laminated composites 21 p3420 N84-31691
Nonlinear analysis for high-temperature composites: Turbine blades/vanes 21 p3421 N84-31699
Method of making compartmented, filament wound, one-piece aircraft fuel tanks
[AD-D011144] 22 p3534 N84-32376
Probabilistic models of the stress-rupture of composite materials: Summary
[DE84-013477] 22 p3545 N84-32441
Curved cap corrugated sheet
[NASA-CASE-LAR-12884-1] 23 p3700 N84-33450
Highly porous powder-fiber composite materials 24 p3872 N84-34538
Ground exposure of composite materials for helicopters
[NASA-TM-86311] 24 p3879 N84-34577
Introduction to composite materials
[AD-A144274] 24 p3879 N84-34578

FIBER STRENGTH
Fracture behavior of unidirectional boron/aluminum composite laminates
[NASA-CR-3753] 06 p0797 N84-15196
A contribution to the manufacture and characteristics of steel-wire-reinforced aluminum
[NASA-TM-76977] 07 p0974 N84-16310
Characterization of selected properties for alumina-aluminum metal matrix composites
[AD-A135580] 09 p1283 N84-18377
Axial test methods development for 3-D cylindrical-weave carbon-carbon composite materials
[AD-A136221] 12 p1790 N84-21672
Method for strengthening boron fibers
[NASA-CASE-LEW-13826-2] 15 p2284 N84-24711

FIBERGLASS
U GLASS FIBERS

FIBERS
NT BORON FIBERS
NT CARBON FIBERS
NT COTTON FIBERS
NT DACRON (TRADEMARK)
NT GLASS FIBERS
NT HAIR
NT METAL FIBERS
NT NYLON (TRADEMARK)
NT REINFORCING FIBERS
NT SYNTHETIC FIBERS
An approach to molecular composites
[AD-A130192] 01 p0141 N84-10927
Overview of composites capability at Lawrence Livermore National Laboratory
[DE84-001086] 04 p0492 N84-13228
Evaluation of type 2 fast packs for electrostatic discharge properties
[AD-A133158] 06 p0853 N84-15557
Synthesis of N-substituted silaneamines: Monomeric precursors of silicon carbide-nitride fibers 06 p0929 N84-16033
Characterization of fiber composite flywheels by ultrasonic imaging techniques
[DE84-004889] 10 p1452 N84-19487
Termination of cylindrical grooved optical cables 11 p1720 N84-21220
Fabrication and evaluation of a high density multi fiber plastic connector 11 p1720 N84-21223
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-3] 13 p1961 N84-22745
The effect of matrix properties and fiber properties on impact failure mechanics 15 p2310 N84-24863
A principal rotor without joints and pillows, made of fiber materials, for dynamic systems of future helicopters
[MBB-UD-384-83-O] 16 p2562 N84-26440
Opacification of high temperature fibrous insulation
[NASA-CR-166578] 21 p3356 N84-31285
Dynamic overstresses in fibrous polymeric materials
[DE84-012605] 21 p3372 N84-31394
Continuum theory for fiber suspensions
[DE84-012258] 21 p3402 N84-31584
A data acquisition and analysis system for fiber creep testing
[DE84-012654] 21 p3422 N84-31709
Dependence of acoustic properties of sound absorbing fibrous materials on their structure 21 p3477 N84-32044
A study of the drawing process for optical fibers
[AD-A142930] 21 p3498 N84-32171
Measurement of multimode optical fiber attenuation: An NBS special test service
[PB84-192202] 21 p3499 N84-32179
Method for forming fibrous silicon carbide insulating material
[DE84-014656] 22 p3545 N84-32442
Computer system for fiber creep testing
[DE84-014453] 22 p3612 N84-32685
Investigation of optical fibers for nonlinear optics
[AD-A143565] 22 p3657 N84-33185
Advanced strain-isolation-pad material with bonded fibrous construction
[NASA-CR-166599] 23 p3723 N84-33592
Hermetic single longitudinal mode CW lasers coupled to single mode optical fiber pigtails
[AD-A143626] 23 p3754 N84-33792
Ultrastructural alterations in skeletal muscle fibers of rats after exercise
[NASA-TM-76976] 23 p3804 N84-34117
Thermal physics of plasma atomization onto fiber materials 24 p3873 N84-34544
Analytic models for radiation induced loss in optical fibers
[AD-A144630] 24 p3964 N84-35100

FIBERS (MATHEMATICS)
Great sphere fibrations of manifolds
[AD-A132544] 04 p0588 N84-13888
On K-theory of conical fibrations
[CTH-MATH-1983-25] 17 p2761 N84-27540

FIBRINOGEN
Fibrinogen, plasminogen and tissue-type plasminogen activator: Their role in the fibinolytic system 23 p3804 N84-34121

FIBROBLASTS
NT COLLAGENS
Karnovsky-osmium as a primary fixative for electron microscopy
[AD-A142671] 20 p3300 N84-30957

FIBROUS MATERIALS
U FIBERS

FIDELITY
U ACCURACY

FIELD COILS
Electromagnetic levitation coil fabrication technique for MSFC containerless processing facilities
[NASA-TM-82565] 09 p1306 N84-18535

FIELD EFFECT TRANSISTORS
NT JFET
Hybrid power semiconductor switch
[NASA-CASE-LEW-13922-1] 02 p0212 N84-11389
Development of a HgCdTe photomixer and impedance matched GaAs FET amplifier
[NASA-CR-170608] 02 p0213 N84-11390
Unipolar machine with superconductive excitation winding
[AD-A131820] 03 p0366 N84-12383
The study of thin films on semi-insulating gallium arsenide by ellipsometry
[AD-A131844] 03 p0452 N84-12972
Computer-aided synthesis and design of monolithic microwave GaAs MESFET amplifiers
[AD-A132474] 04 p0525 N84-13452
An FET full-bridge switcher for inductorless capacitor charging for Nova
[DE83-016005] 04 p0528 N84-13471
Low-noise gallium-arsenide field-effect transistor preamplifiers for stochastic beam-cooling systems
[DE83-017535] 04 p0528 N84-13475
A large and small signal charge storage model for an enhancement mode M.O.S. field effect transistor 05 p0672 N84-14418
Electrochemistry of chemically sensitive field effect transistors
[AD-A133984] 05 p0674 N84-14427
Development of short gate FET's
[AD-A133852] 05 p0674 N84-14431
Integrated circuit failure mechanism detected by IMMA 06 p0815 N84-15305
An In0 2Ga0 8As/GaAs, modulation-doped, strained-layer superlattice field-effect transistor
[DE84-000136] 06 p0924 N84-16006
30/20 GHz spacecraft GaAs FET solid state transmitter for trunking and customer-premise-service application
[NASA-CR-168276] 07 p0997 N84-16483
The 20 GHz spacecraft FET solid state transmitter
[NASA-CR-168240] 08 p1149 N84-17477
GaAs FET logic at low temperatures
[AD-A135007] 08 p1150 N84-17483
Cyrogenic FET IF-amplifier for a mm wave mixer
[REPT-S-124] 09 p1310 N84-18566
Active mixer with dual gated FET
[INPE-2744-TDL/135] 10 p1484 N84-19704
Ka-band Ga-As FET noise receiver/device development
[NASA-CR-175176] 10 p1484 N84-19705
Theoretical-experimental analysis of the effects of grain boundaries on the electrical properties of SOI (Silicon-On-Insulator) MOSFETS
[AD-A136975] 10 p1486 N84-19718
Material growth and characterization for solid state devices
[NASA-CR-173265] 10 p1587 N84-20401
Development of neutron-transmutation-doped germanium bolometer material
[DE84-006248] 14 p2243 N84-24471
A probe for measuring spacecraft surface potentials using a direct-gate field effect transistor
[AD-A140024] 15 p2283 N84-24706
A GaAs refractometer for tropospheric studies 15 p2324 N84-24952
LSI/VLSI (Large Scale Integration/Very Large Scale Integration) ion implanted GaAs (Gallium Arsenide) IC processing
[AD-A139676] 15 p2328 N84-24979
Cryogenic 75-95 GHz front-end for the Metsaehovi radio telescope
[REPT-S-145] 15 p2424 N84-25564
Development of short gate FET's
[AD-A140819] 17 p2663 N84-26992
Advanced components for spaceborne infrared astronomy
[NASA-CR-166585] 17 p2671 N84-27025
High speed FETs fabricated in GaAs/AlGaAs layered structures prepared by molecular beam epitaxy
[AD-A141058] 19 p3013 N84-29096
Monolithic amplifier
[AD-D011075] 19 p3017 N84-29129
High power high voltage linear amplifier apparatus
[AD-D011026] 19 p3018 N84-29132
Transient response of GaAs microwave power FET to X-ray pulses
[DE84-008816] 19 p3019 N84-29139
Preparation of device quality strained-layer superlattices
[DE84-009488] 19 p3112 N84-29776
The 8th European Specialist Workshop on Active Microwave Semiconductor Devices 4-6 may 1983
[AD-A142252] 20 p3177 N84-30180
Large-signal characterization of nonlinear two-port active networks
[AD-A142462] 20 p3178 N84-30184
Strained layer superlattice materials for millimeter wave FET's, phase 1
[DE84-011475] 20 p3308 N84-31007
Transient response of GaAs microwave power FET to X-ray pulses
[DE84-010145] 20 p3309 N84-31017
Universal control grid modulator
[AD-D011108] 22 p3580 N84-32672
A study of the high frequency limitations of series resonant converters
[NASA-CR-173868] 22 p3581 N84-32678
FET charge sensor and voltage probe
[NASA-CASE-NPO-16045-1] 22 p3662 N84-33211
Submicron structures technology and research 22 p3683 N84-33353
FET switching regulator
[AD-D011146] 23 p3735 N84-33665
Gallium arsenide field-effect transistor magnetic field studies
[AD-A144058] 23 p3742 N84-33721
Swedish firm first in Scandinavia to master GaAs technology 24 p3892 N84-34646
Elementary excitations and quasi-two-dimensional behaviour in a GaAs field effect transistor
[DE84-701190] 24 p3967 N84-35122

FIELD EMISSION
Field emission electric propulsion: Additional propellants: Further tests on indium and alloys
[R664] 06 p0796 N84-15186

Field emission electric propulsion. Further testing of mercury as propellant
[IRA-83-P-6] 12 p1782 N84-21629
Industrialization of emitters modules, part 2
[SEP-TS/SE/BT/10457/83-PT-2] 16 p2475 N84-25866

FIELD OF VIEW
NIMBUS-ERB instrument study
[NASA-CR-165922] 02 p0222 N84-11459
Electron beam trajectory in a photometer field of view
[AD-A131949] 03 p0432 N84-12831
The effect of haze on an operator's visual field and his target detection performance
[AD-A138330] 13 p2020 N84-23099
Nimbus-Earth radiation budget instrument analysis
[NASA-CR-172318] 14 p2175 N84-24029
A robust pseudo-inverse spectral filter applied to the Earth Radiation Budget Experiment (ERBE) scanning channels
[NASA-TM-85781] 15 p2370 N84-25219
Future development trends for Head-Up Displays
[AD-P003164] 17 p2589 N84-26595
Special pyrheliometer shroud development 18 p2875 N84-28255
Characterization of the LANDSAT sensors' spatial responses
[E84-10171] 21 p3426 N84-31734
A wide field-of-view CRT projection system with optical feedback for self alignment
[AD-P003447] 21 p3508 N84-32224
Closing the gap between aircraft and simulator training with Limited Field-Of-View (LFOV) visual systems
[AD-P003448] 21 p3508 N84-32225
Fiber optic helmet mounted display: A cost effective approach to full visual flight simulation
[AD-P003482] 21 p3512 N84-32249
F-16 and A-10 diffraction optics Head Up Display (HUD) flight test evaluation 24 p3849 N84-34411
Design criteria for space based laser ranging systems 24 p3908 N84-34751
F-15 Limited Field of View visual system training effectiveness evaluation
[AD-A144309] 24 p3938 N84-34925

FIELD STRENGTH
NT ELECTRIC FIELD STRENGTH
NT MAGNETIC FLUX
Energy transfer by magnetopause reconnection and the substorm parameter epsilon
[INPE-2908-PRE/422] 07 p1031 N84-16690
Field strength predictions using a computer and a terrain data base — terrestrial mobile radio systems 10 p1476 N84-19643
Field strength prediction with a topographical data base: Experience gained in the Federal Republic of Germany — terrestrial mobile radio systems 10 p1476 N84-19644
Connecticut ELF (Extremely Low Frequency) field strength measurements, March to May 1978
[AD-A137385] 10 p1479 N84-19666
Connecticut ELF (Extremely Low Frequency) field measurements, May to July 1977
[AD-A137416] 10 p1480 N84-19668
Electromagnetic radiation and scattering from a system of conducting bodies interconnected by wires 13 p1984 N84-22682
A radio interference model for western Europe 15 p2325 N84-24963
The prediction of field strength in the frequency range 30 - 1000 MHz 15 p2326 N84-24966
Petrologic and geophysical sources of long-wavelength crustal magnetic anomalies
[NASA-CR-175245] 18 p2878 N84-28276
Zeeman studies of shallow donors and excitons in quantum wells
[AD-A144487] 24 p3967 N84-35121

FIELD THEORY (ALGEBRA)
NT CUBIC EQUATIONS
NT QUADRATIC EQUATIONS
The covariant classification of two-dimensional smooth commutative formal groups over an algebraically closed field of positive characteristic
[MATH-CENTRE-TRACTS-157] 08 p1223 N84-17989
Quadratic fields and factorization 08 p1225 N84-18002
Annals of the Fourier Institute, volume 33, no. 4
[ISSN-0373-0956] 13 p2031 N84-23172
On the Z sub 2 extensions of an imaginary quadratic field 13 p2031 N84-23173
Formal and group Picard localization 13 p2032 N84-23174
Annals of the Fourier Institute, volume 33, no. 3
[ISSN-0373-0956] 14 p2210 N84-24264
Kato's class field theory and abelian coverings of surfaces 14 p2210 N84-24266
Algebraically special, nonaligned nonnull Einstein-Maxwell fields
[MATHS-RES-178] 19 p3114 N84-29783
Infinitesimal L-classes of a group of algebraic numbers 22 p3635 N84-33039
Inelastic strong interactions at high energies
[DE84-013647] 22 p3655 N84-33170

FIELD THEORY (PHYSICS)
NT QUANTUM CHROMODYNAMICS
NT STRONG INTERACTIONS (FIELD THEORY)
NT UNIFIED FIELD THEORY
NT WEAK INTERACTIONS (FIELD THEORY)
Axions in cosmology
[DE83-015590] 01 p0156 N84-11028
Commensurability, chaos, and the devil's staircase
[DE83-013280] 03 p0454 N84-12987
Spectral reflectance of near-earth asteroids: Implications for composition, origin and evolution 05 p0762 N84-15000
Lattice gauge theories
[DE83-013114] 06 p0910 N84-15906
Problems at the interface between perturbative and nonperturbative quantum chromodynamics
[DE84-002375] 06 p0926 N84-16018
A general field theory for vortex structure and interaction
[AD-A134146] 07 p1033 N84-16705
Mean field theory of the linear sigma-model: Chiral solitons
[DE84-002664] 08 p1229 N84-18034
New horizons in electromagnetic physics
[DE84-002600] 08 p1230 N84-18039
Monte Carlo calculations of elementary particle properties 10 p1561 N84-20229
Mirrorless intrinsic optical bistability due to the local field correction in the Maxwell-Bloch formulation 14 p2233 N84-24397
Supersymmetry in physics: An algebraic overview
[DE84-007289] 15 p2399 N84-25395
Cluster calculation of electronic structure of the diamond (111) surface using the XAlpha-scattered wave method
[AD-A140486] 16 p2560 N84-26426
Topics in quantum field theory and cosmology 17 p2769 N84-27583
Algebraically special, nonaligned nonnull Einstein-Maxwell fields
[MATHS-RES-178] 19 p3114 N84-29783
Research program in elementary particle theory
[DE84-011502] 20 p3297 N84-30933
High energy nuclear structures
[DE84-010062] 20 p3299 N84-30947
Fun with supersymmetric quantum mechanics
[DE84-011329] 20 p3312 N84-31031
Thermodynamic field theory of the dynamic behavior of bipolar junction transistors 21 p3390 N84-31510
Axions, neutrinos and strings: The formation of structure in an SO(10) universe
[NASA-TM-86139] 22 p3678 N84-33317

FIGHTER AIRCRAFT
NT ALPHA JET AIRCRAFT
NT F-4 AIRCRAFT
NT F-8 AIRCRAFT
NT F-14 AIRCRAFT
NT F-15 AIRCRAFT
NT F-16 AIRCRAFT
NT F-18 AIRCRAFT
NT F-106 AIRCRAFT
NT F-111 AIRCRAFT
NT HARRIER AIRCRAFT
NT JAGUAR AIRCRAFT
NT MIG AIRCRAFT
NT MIRAGE AIRCRAFT
Effect of thrust vectoring and wing maneuver devices on transonic aeropropulsive characteristics of a supersonic fighter
[NASA-TP-2119] 01 p0004 N84-10025
Aircraft Electric Secondary Power
[NASA-CP-2282] 01 p0009 N84-10055
High-voltage (270 V) dc power-generating system for fighter aircraft 01 p0010 N84-10057
Control of the forebody vortex orientation by asymmetric air injection. Part A: Application to enhance departure/spin recovery of fighter aircraft and Part B: Details of the flow structure 01 p0014 N84-10088
Control of advanced fighter aircraft 01 p0014 N84-10089
Some aspects of flight trajectory control in future avionic systems for combat aircraft 03 p0316 N84-12066
Special Course on Subsonic/Transonic Aerodynamic Interference for Aircraft
[AGARD-R-712] 03 p0317 N84-12072
Subsonic/transonic viscous interactions 03 p0317 N84-12075
Transonic configuration design (fighter) 03 p0318 N84-12082
Experimental investigation of forebody and wing leading-edge vortex interactions at high angles of attack 03 p0322 N84-12110
Augmentation of fighter-aircraft performance by spanwise blowing over the wing leading edge 03 p0326 N84-12133
Secondary power systems for fighter aircraft experiences today and requirements for a next generation 03 p0334 N84-12171
Super integrated power unit for fighter aircraft 03 p0335 N84-12183
Bifurcation theory applied to the study of control losses on combat aircraft 04 p0478 N84-13144
The first peek at China's new fighters for the eighties, the Jian-8 and Jian-12
[AD-A133785] 05 p0625 N84-14113
Operational readiness and its impact on fighter avionics system design 06 p0768 N84-15037
Navy's advanced aircraft armament system program concept objectives 06 p0770 N84-15045
Towards the functional partitioning of highly integrated, fault tolerant avionics signal processors 06 p0770 N84-15047
Color display technology in advanced fighter cockpits 06 p0772 N84-15061
Concept of a fighter aircraft weapon delivery system 06 p0773 N84-15064
Concepts for avionic and weapon integration facilities 06 p0774 N84-15070
Pilot human factors in stall/spin accidents of supersonic fighter aircraft 06 p0779 N84-15102
Mach 0.6 to 3.0 flows over rectangular cavities
[AD-A134579] 06 p0782 N84-15121
Improved dynamic models for air combat analysis
[TAE-483] 06 p0905 N84-15876
X-29 flight-research program
[NASA-TM-86025] 07 p0951 N84-16168
Flight test experience with pilot-induced-oscillation suppression filters
[NASA-TM-86028] 07 p0958 N84-16213
Reliability growth programs of major weapon systems in the aeronautical systems division
[AD-A134380] 07 p1013 N84-16571
Wave drag as the objective function in transonic fighter wing optimization
[NASA-TP-2265] 08 p1096 N84-17127
A study of prediction methods for the high angle-of-attack aerodynamics of straight wings and fighter aircraft
[NASA-CR-3764] 08 p1097 N84-17131
Theoretical and experimental engine-inlet flow fields for fighter forebodies
[NASA-TP-2270] 08 p1097 N84-17132
Wind-tunnel free-flight investigation of a model of a forward-swept-wing fighter configuration
[NASA-TP-2230] 08 p1105 N84-17184
A strategy for improving overhead cost control
[AD-A134661] 08 p1238 N84-18092
Probing into the secret of the Chinese Air Force
[AD-A135960] 09 p1249 N84-18157
US military aircraft cost handbook
[AD-A136035] 09 p1249 N84-18158
Investigation of trailing-edge-flap, spanwise-blowing concepts on an advanced fighter configuration
[NASA-TP-2250] 09 p1251 N84-18164
Effects of blowing spanwise from the tips of low-aspect ratio wings of varying taper ratio, with application to improving STOL capability of fighter aircraft
[AD-A135688] 09 p1252 N84-18175
An open loop missile evasion algorithm for fighters
[AD-A136834] 10 p1428 N84-19339
Minimum time turns with direct sideforce
[AD-A136958] 10 p1429 N84-19342
Wing planform effects at supersonic speeds for an advanced fighter configuration
[NASA-TP-2269] 11 p1601 N84-20486
Fighter aircraft flight control technology design requirements 11 p1619 N84-20597
Opportunities for aircraft controls research 11 p1619 N84-20598
Design of longitudinal control laws for the X-29A backup analog flight control system
[AD-A137814] 11 p1619 N84-20601
The aerospace industry in Germany: Today and tomorrow 12 p1764 N84-21501
China report: Science and technology
[JPRS-CST-84-009] 12 p1773 N84-21561
First Chinese-built fighter simulator described 12 p1773 N84-21562
Integrated testing and maintenance technologies
[AD-A138587] 13 p1925 N84-22528
Assessment of aerodynamic performance of V/STOL and STOVL fighter aircraft
[NASA-TM-85937] 13 p1926 N84-22536

Development and analysis of a STOL supersonic cruise fighter concept
[NASA-TM-85777] 13 p1930 N84-22553
Quantification of subjective ratings through conjoint measurement analysis
[AD-A138810] 13 p1930 N84-22554
Some themes on Rolls-Royce military engine technology. Part 1: Old and new engines for combat aircraft. Part 2: After-burning technology
[PNR-90195] 13 p1934 N84-22579
Test techniques for jet effects on fighter aircraft
14 p2098 N84-23589
Low-speed wind-tunnel study of the high-angle-of-attack stability and control characteristics of a cranked-arrow-wing fighter configuration
[NASA-TM-85776] 14 p2110 N84-23654
Aeropropulsive characteristics of nonaxisymmetric-nozzle thrust reversers at Mach numbers from 0 to 1.20
[NASA-TP-2306] 15 p2254 N84-24538
Flight mechanical analysis of dynamic derivatives of the Dornier variation wind tunnel model
[DFVLR-FM-83-38] 15 p2255 N84-24541
System modeling and identification of equivalent systems with and without compensating time delay for control-augmented aircraft
[DFVLR-FB-83-36] 15 p2259 N84-24570
A digital flight control system for an unstable aircraft
[BU-292] 15 p2264 N84-24594
Assessment of aerodynamic performance of V/STOL and STOVL fighter aircraft 16 p2437 N84-25636
Design and implementation of input signals for identification of pilot/aircraft models
[DFVLR-FB-84-08] 16 p2449 N84-25709
The silicon AIDS (Airborne Integrated Data Systems)
17 p2587 N84-26583
Increasing birdstrike rates and improved birdstrike analysis of the Royal Netherlands Air Force
[AD-P003216] 17 p2594 N84-26629
Theoretical evaluation of the structural performance of Swedish fighter aircraft windshields subjected to bird impact
[AD-P003235] 17 p2597 N84-26648
Low-speed investigation of effects of wing leading- and trailing-edge flap deflections and canard incidence on a fighter configuration equipped with a forward-swept wing
[NASA-TM-85795] 17 p2600 N84-26667
Calculation of vertical and ramp-assisted takeoffs for supersonic cruise fighters
[NASA-TM-85818] 17 p2600 N84-26668
Effect of fuselage upwash on the supersonic longitudinal aerodynamic characteristics of 2 fighter configurations
[NASA-TP-2330] 18 p2785 N84-27676
The Enforcer aircraft program: A lower-cost alternative weapon system
[AD-A141564] 19 p2955 N84-28728
F/A-18 AN/APG-65 radar case study report (IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A142103] 19 p3007 N84-29057
Advanced cockpit-systems integration
[AD-P003569] 21 p3337 N84-31174
The perception of saturation and hue on colour cathode ray tubes
[AD-A143645] 23 p3811 N84-34167
Improving the fatigue life of the Mirage IIIO wing main spar
[ARL-STRUC-REPT-396] 24 p3853 N84-34437
Application of computational fluid dynamics in aircraft design
[AD-A144323] 24 p3854 N84-34441

FILAMENT WINDING
A theory of filament wound pressure vessels
[VTH-LR-379] 10 p1503 N84-19823
Some properties of epoxy resins used for filament winding and preimpregnating fibres
[AERE-R-10966] 18 p2820 N84-27905
Analytical model of strength loss in filament wound spherical vessels
[DE84-010213] 19 p2986 N84-28923
Characterization of filament wound Kevlar and glass composites for rocket motor applications
20 p3142 N84-29949
Development of GAP-TAGN-PEG propellants. Part 1: Study of ingredients 20 p3143 N84-29954
Method of making compartmented, filament wound, one-piece aircraft fuel tanks
[AD-D011144] 22 p3534 N84-32376
System for maintaining the alignment of mandrels in filament winding operations
[DE84-014660] 23 p3727 N84-33617

FILAMENT WOUND CONSTRUCTION
U FILAMENT WINDING

FILAMENTS
Superconducting properties of Nb3Sn multifilamentary wires fabricated by internal tin process
[DE83-018189] 08 p0925 N84-16011
Superconductivity in filamentary eutectic composites
[DE84-005167] 10 p1453 N84-19489
Modes of deformation and failure of Kevlar 49 fibers and composites
[DE84-004162] 13 p1954 N84-22706
A finite difference study of the stretching and break-up of filaments of polymer solutions
[AD-A139258] 14 p2130 N84-23767
Dynamic overstresses in fibrous polymeric materials
[DE84-012605] 21 p3372 N84-31394
Development of long-length wire filament strain gages
[DE84-011543] 21 p3406 N84-31605
Method of making compartmented, filament wound, one-piece aircraft fuel tanks
[AD-D011144] 22 p3534 N84-32376

FILE MAINTENANCE (COMPUTERS)
Compiling the space shuttle wind tunnel data base: An exercise in technical and managerial innovators
01 p0026 N84-10166
Review of the ANSI metafile and virtual device interface standardization activities
[DE83-015925] 03 p0419 N84-12737
Praxis language environment: Distribution-package description
[DE83-017546] 03 p0421 N84-12750
DRAMIN: Transferring data from the Applicon graphic system to A DRAM input file user guide
[DE83-018235] 03 p0421 N84-12753
Participation of VAX VMS computers in IBM file-transfer networks
[DE83-017945] 04 p0581 N84-13838
Proceedings of the Third LAN-Transport Workshop. Report of the Third Workshop for Local Area Network Implementors of the NBS Specifications of the International Standards Organization Transport Class 4 Protocol Special Interest Group on File Transfer Protocol
[PB83-251348] 04 p0584 N84-13857
File migration in distributed computer systems
04 p0584 N84-13860
Network file-storage system
[DE84-001068] 04 p0585 N84-13863
An analytical model for evaluating database update schemes 05 p0760 N84-14966
BANDIT in NASTRAN 06 p0858 N84-15591
FGGE/SMMR-30 tape specification and shipping letter description
[NASA-CR-170550] 06 p0935 N84-16074
A method for comparing the structure of a discipline to the structure of a bibliographic file for that discipline
10 p1593 N84-20443
Processing system 12 p1835 N84-21958
On the generation and use of quantitative criteria for assessing software maintenance quality
13 p2025 N84-23128
GENTRI: A system for simultaneous adjustment of photogrammetric and other observations
15 p2358 N84-25152
Expanding the permanent file directory on the CDC (Control Data Corporation) NOS/BE (Network Operating System/Batch Environment) operating systems
[AD-A140005] 15 p2418 N84-25519
An operating system for future aerospace vehicle computer systems
[NASA-TM-85784] 16 p2546 N84-26340
The ROE file system
[AD-A140497] 16 p2567 N84-26473
Bringing together various programs and data packets in the ZX81/TS1000/TK82C/CP200 memory
[INPE-3013-PRE/456] 17 p2752 N84-27466
Horizon and Prime Communication Programs HCP and PCP
[REPT-72/84/R006U] 19 p3003 N84-29033
Weapons file
[AD-A142506] 20 p3128 N84-29867
Report on functional design specification for the automated alphanumeric data entry system
[AD-A142518] 20 p3266 N84-30725
Argonne integrated heterogeneous file transfer network
[DE84-012092] 20 p3277 N84-30803
NIMBUS 7 Earth Radiation Budget (ERB) matrix user's guide. Volume 2: Tape specifications
[NASA-CR-170620] 21 p3464 N84-31961
The design and usage of the new data management features in NASTRAN 22 p3609 N84-32866
Updating replicated files in real time distributed processing systems 22 p3670 N84-33264
Physics in Europe: A data file of selected research
[AD-A143428] 22 p3674 N84-33289
BASIC programs 2 23 p3762 N84-33847
Configuration and implementation
23 p3842 N84-34369

FILES
Documentation for the machine-readable version of a table of Redshifts for Abell clusters (Sarazin, Rood and Struble 1982)
[NASA-TM-85571] 13 p2070 N84-23417
Physics in Europe: A data file of selected research
[AD-A143428] 22 p3674 N84-33289

FILLERS
Repair and restoration of paved surfaces. Phase 2: Backfilling of craters
[AD-A135745] 10 p1471 N84-19610
Stress relaxation of cellular silicone material, 1983
[DE84-007103] 12 p1802 N84-21749
Development of low cost filler materials for welding high strength steels
[AD-A141724] 19 p2994 N84-28973
High-performance, low-energy-curing resins
[AD-A141524] 19 p2998 N84-29000
Pore-forming fillers for molten carbonate matrices
[DE84-014509] 23 p3715 N84-33551

FILLING
The filling effect of blockages in wide angle diffusers
[BU-284] 15 p2332 N84-25005
Design and development of Shuttle Get-Away-Special experiment G-0074 — off-load capability for a full-tank propellant acquisition system 18 p2800 N84-27770

FILM CONDENSATION
Numerical solution of the two-phase, three dimensional boundary layer in laminar film condensation over a curved surface 03 p0375 N84-12442
Study of the effect of adsorbed ions on the electrosorption of organic molecules and the kinetics of formation of condensed films
[AD-A137882] 11 p1730 N84-21286

FILM COOLING
Computation of discrete slanted hole film cooling flow using the Navier-Stokes equations
[AD-A137022] 10 p1493 N84-19763
Vortex generating flow passage design for increased film cooling effectiveness
[NASA-CASE-LEW-14039-1] 11 p1651 N84-20782
Film cooling on a gas turbine blade near the end wall
[AD-A136794] 13 p1933 N84-22589
Vortex generating flow passage design for increased film-cooling effectiveness and surface coverage — aircraft engine blade cooling
[NASA-TM-83617] 13 p1989 N84-22909
Film cooling on a convex wall: Heat transfer and hydrodynamic measurements for full and partial coverage 23 p3745 N84-33741

FILM THICKNESS
A new non-destructive and standardless method for the thickness determination of thin films by XRF measurement 06 p0815 N84-15308
Dynamic behavior of spiral-groove and Rayleigh-Step self-acting face seals
[NASA-TP-2266] 07 p0953 N84-16181
Characteristic morphological and frictional changes in sputtered MoS/sub 2 films
[NASA-TM-83565] 07 p0985 N84-16380
A numerical technique in the hydrodynamic theory of foil bearings
[AD-P002966] 14 p2200 N84-24204
Elastohydrodynamic lubrication of smooth surfaces
15 p2315 N84-24895
Elastohydrodynamic lubrication of rough surfaces
15 p2315 N84-24896
Temperature effects in elastohydrodynamically lubricated contacts 15 p2340 N84-25049
Transient EHL effects in starved ball bearings
15 p2341 N84-25054
Preliminary indications of water film distribution and thickness on an airfoil in a water spray
[NASA-TM-85796] 18 p2785 N84-27677
Use of surface and thin film analysis techniques to study metal-organic and metal-polymer interaction
[DE84-012542] 21 p3361 N84-31321
Epitaxial thinning process
[NASA-CASE-NPO-15786-1] 24 p3966 N84-35112

FILMS
Tailoring polymer films for solar-collection use, phase 1
[DE83-018117] 03 p0404 N84-12640
Determination of the effect of composition, structure and electrochemical mass transport properties on adhesion and corrosion inhibition of paint films
[AD-A138487] 12 p1801 N84-21746
Lubricant rheology in concentrated contacts
15 p2341 N84-25050
Impact of weak electric field on photoconductivity of modified vitreous As2Se3 20 p3286 N84-30867
Noncubic magnetic anisotropy in YSmLuCaFeGe garnet films 20 p3287 N84-30869
Effect of thermal irradiation from evaporation source to photo-darkening sensitivity of vacuum deposited AgBr film 21 p3477 N84-32038

FILTERING
U FILTRATION
FILTERS
Effect of high latitude filtering on NWP skill
12 p1852 N84-22066
Target super-resolution compensation for coherent airborne radar utilizing spread spectrum waveforms
[AD-A138545] 13 p1982 N84-22866
Boron in the marine atmosphere
13 p2010 N84-23038
Yellow ophthalmic filters in the visual acquisition of aircraft
[AD-A138536] 13 p2020 N84-23097
The present status of Clean PAL systems
[BBC-RD-1984/6] 20 p3172 N84-30142
A procedure for designing exact reconstruction filter banks for tree-structured subband coders
[AD-A142345] 20 p3173 N84-30150
Smoothing on the frequency domain
[INPE-3182-PRE/547] 21 p3471 N84-31997
Electrofilters from polymer materials
24 p3867 N84-34509
FILTRATION
NT SPATIAL FILTERING
Method for treating wastewater using microorganisms and vascular aquatic plants
[NASA-CASE-NSTL-10] 03 p0406 N84-12654
Screening and classification of ceramic powders
[NASA-TM-77092] 06 p0809 N84-15270
Filtration theory approach to immiscible alloys solidification 17 p2613 N84-26729
Investigation of the influence of the zeta-potential on the filtration rate in the presence of collectors
[NASA-TM-77447] 19 p2987 N84-28927
Pressure filtration of ceramic pastes. 4: Treatment of experimental data
[NASA-TM-77454] 19 p2997 N84-28992
Effects of micronic filtration on turbine engine lubricant deposition
[AD-A141802] 19 p2999 N84-29007
Iron nitrate and MON-3 nitrogen tetroxide
20 p3136 N84-29909
Electrostatic filtration of N2O4 for removal of solid and vapor contaminants 20 p3138 N84-29922
Electro-optical transmission and liquid water content of fogs and clouds
[AD-A142294] 20 p3245 N84-30597
Growth and characterization of metal oxide whiskers for aerosol filtration
[DE84-011049] 20 p3310 N84-31021
Conditions of filtration burning of porous condensed systems with multiple passage of reaction wave
21 p3483 N84-32076
FINANCE
Cost risk trade-offs in timing the production decision
[AD-P002753] 13 p2050 N84-23300
Voluntary accounting systems for a small air carrier: Revenues, financial and traffic statistics
[PB84-210996] 22 p3533 N84-32369
FINANCIAL MANAGEMENT
Develop a normative or descriptive model of the international/domestic civil aviation industry. Volume 1: Executive summary
[AD-A131876] 03 p0314 N84-12053
Activities report of the aerospace industry in West Germany 03 p0328 N84-12139
Activities report of the aerospace industry in West Germany 03 p0328 N84-12140
High cost, lack of interest, money for Spacelab launches 05 p0634 N84-14170
Integrated budget control using a desktop computer
05 p0717 N84-14697
Computerised plant control system
05 p0717 N84-14698
Tendering on a micro computer
05 p0717 N84-14700
Site computers 05 p0717 N84-14701
Keeping your fingers crossed won't help
05 p0718 N84-14702
Cost problems in international collaboration
[MBB-UA-671-82-OE] 05 p0760 N84-14988
Productivity improvement in a purchase division: Evaluation of a Performance Contingent Reward System (PCRS)
[AD-A133589] 07 p1050 N84-16801
A 1983 science and technology posture hearing with Director, Office of Science and Technology Policy
[GPO-21-095] 08 p1237 N84-18085
Alternative strategies for space station financing
[NASA-CR-175412] 11 p1752 N84-21437
Functional requirements for the development and use of a software-cost database
[AD-B079998] 12 p1885 N84-22267
Fiscal and monetary policy in a general equilibrium model
[AD-A138502] 12 p1920 N84-22510
Progress in improving program and budget information for Congressional use
[AD-A137491] 12 p1920 N84-22511
The MBB business activities' report
14 p2247 N84-24494
Guidelines for development of NASA (National Aeronautics and Space Administration) computer security training programs
[NASA-CR-173562] 16 p2542 N84-26318
An analysis of Department of Defense financial and acquisition policies in support of military contingency requirements
[AD-A140820] 17 p2773 N84-27607
National Aeronautics and Space Administration's first-year implementation of the Federal Managers' Financial Integrity Act
[PB84-188770] 20 p3314 N84-31044
Midi-robots get underway in September: Lab-industry link 24 p3882 N84-34649
FINE STRUCTURE
Kinetics of structural relaxation in metallic glasses
[DE83-015924] 02 p0201 N84-11309
EXAFS study of Metglas 2605 CO
[DE84-001203] 04 p0503 N84-13299
Focusing X-ray monochromator for EXAFS studies in the energy range 4-30 keV
[DE84-001903] 05 p0685 N84-14505
Localized hole effects in inner-shell excitation
[DE84-001401] 05 p0755 N84-14956
EXAFS studies of the metallic glass La80Ga20
[DE84-002022] 06 p0811 N84-15278
Velocity and electronic state distributions of sputtered Fe atoms by laser-induced fluorescence spectroscopy
[DE84-003649] 06 p1230 N84-18040
Angle-resolved photoemission extended fine structure
[DE84-002899] 06 p1236 N84-18080
Far-IR spectroscopy of the galactic center: Neutral and ionized gas in the central 10 pc of the galaxy
[NASA-CR-166510] 13 p2070 N84-23411
Abundances in galactic H2 regions, 3: G25.4-0.2, G45.5+0.06, M8, S159 and DR22
[NASA-TM-85962] 17 p2774 N84-27616
Multiple scattering effects in EXAFS (Extended X-ray Absorption Fine Structure): Comparison between theory and experiment for Pt metal
[AD-A142199] 19 p2989 N84-28941
Determination of structural parameters from EXAFS (Extended X-ray Absorption Fine Structure): Application to solutions and catalysts
[AD-A142205] 19 p2989 N84-28942
Accuracy of mapping the Earth's gravity field fine structure with a spaceborne gravity gradiometer mission
20 p3222 N84-30473
How useful are odd-integer half-harmonics
[DE84-012392] 21 p3501 N84-32190
Low-cycle fatigue of VT1-0 alloy and changes in its fine structure at temperatures of 293-4.2 deg K
23 p3708 N84-33509
Corrosion protective properties of coatings obtained by hydraulic pulse compacting of aluminum powder
24 p3875 N84-34553
FINGERS
Self-locking telescoping manipulator arm
[NASA-CASE-MFS-25906-1] 02 p0269 N84-11761
Appropriate lengths between phalanges of multijointed fingers for stable grasping
[AD-A133448] 06 p0894 N84-15806
FINISHES
NT ENAMELS
NT GLAZES
NT LACQUERS
Fluoroalkyl siloxanes as liquid-repellent fabric finishes. Part 3: The durability of the copolymers and comparisons with commercially available finishes
[AD-A136662] 10 p1467 N84-19579
FINITE DIFFERENCE THEORY
Lecture notes for Bulk and Hourglass Viscosities in Wave Propagation Codes
[DE83-013042] 01 p0068 N84-10445
Transient-temperatures-measurement errors
[DE83-006300] 01 p0085 N84-10549
Numerical simulation of the velocity records from the SRI grout spheres experiment
[AD-A131267] 01 p0096 N84-10627
Documentation for FDCALC and FDCORE
[DE83-013886] 01 p0124 N84-10808
Element Choices for Explicit and Implicit Nonlinear Finite-Element Computation. The Iapra Courses on Structural Dynamics: Lecture notes
[DE83-013041] 01 p0134 N84-10880
Momentum-control volumes for finite-difference codes
[DE83-007566] 02 p0282 N84-11649
Analysis of finite difference discretizations of Navier-Stokes problems on mapped domains
02 p0283 N84-11858
Computational methods for subsonic and transonic aerodynamic design 03 p0317 N84-12074
Vortex flow simulations past wings using the Euler equations 03 p0324 N84-12118
Numerical solution of the two-phase, three dimensional boundary layer in laminar film condensation over a curved surface 03 p0375 N84-12442
Interaction of stress waves and cracks using a second order accurate finite difference method
03 p0387 N84-12522
GRIDPACK: Toward unification of general grid programming
[AD-A131692] 03 p0420 N84-12746
A fully vectorized numerical solution of the incompressible Navier-Stokes equations
[NASA-CR-174496] 04 p0531 N84-13491
Fully-coupled solution of pressure-linked fluid flow equations
[DE83-017989] 04 p0536 N84-13527
Stability analysis for difference schemes, problems in applied linear algebra, and application of number theory to computing
[AD-A133654] 05 p0735 N84-14825
Initial-boundary value problems for linear hyperbolic systems
[AD-A132644] 05 p0735 N84-14829
Implementation of a subgradient projection algorithm II
[AD-A132835] 05 p0737 N84-14841
Aerothermal modeling. Executive summary
[NASA-CR-168330] 06 p0790 N84-15152
Asymptotic analysis of numerical wave propagation in finite difference equations
[NASA-CR-175323] 06 p0822 N84-15360
Comparison of steady state transitions in truncated spectral and finite difference models of two-dimensional shallow convection 06 p0832 N84-15417
Introduction to computational fluid dynamics — conferences
[VKI-LS-1983-01] 06 p0834 N84-15429
Equations of fluid flow, finite difference approximations and basic mathematical properties of each
06 p0834 N84-15430
Finite difference methods for convective-diffusive equations 06 p0835 N84-15432
A finite difference technique for laminar and turbulent compressible boundary layers 06 p0835 N84-15433
Finite-difference approximations of the Navier-Stokes equations for incompressible flows
06 p0835 N84-15434
Iterative techniques for the solution of elliptic finite difference equations 06 p0835 N84-15435
Iterative solution of the finite difference potential equations for subsonic and transonic flows
06 p0835 N84-15436
Computational Fluid Dynamics, volume 1 — conferences
[VKI-LS-1983-04-VOL-1] 06 p0838 N84-15461
Practical three-dimensional mesh generation using transfinite interpolation 06 p0838 N84-15463
The accuracy of the finite difference computations of recirculating free convective flows
06 p0839 N84-15471
Fully coupled calculation of fluid flows with limited use of computer storage
[DE84-002218] 06 p0844 N84-15508
Solution of elastic and elasto-plastic problems by the method of lines 06 p0856 N84-15573
Interpretation of near-source ground motion and implications 06 p0876 N84-15697
Numerical modeling and fast-solver calculation of approximately normal shocks
[NLR-MP-82026-U] 06 p0902 N84-15856
Computation of strongly swirling axi-symmetric free jets
[KU-SFB-80/T/216] 07 p1004 N84-16512
Improved finite-difference vibration analysis of pretwisted, tapered beams
[NASA-TM-83549] 07 p1015 N84-16586
On perturbations of stability inequalities with an application to finite difference approximations of ODE's
[AD-A134535] 07 p1062 N84-16889
Laser diagnostic development and measurement and modeling of turbulent flowfields of jets and wakes. Part 2: Numerical predictions of isothermal flowfields in a ducted centerbody combustor
[AD-A134692] 08 p1159 N84-17543
A finite difference scheme for the equilibrium equations of elastic bodies
[NASA-CR-172293] 08 p1170 N84-17621
A computer program for solving the parabolic equation using an implicit finite-difference solution method and incorporating exact interface conditions
[AD-A135325] 08 p1212 N84-17903
Accuracy of stable schemes for 2D scalar conservation laws
[DE84-004989] 08 p1222 N84-17976

Finite difference methods for the incompressible Navier-Stokes equations: A survey
[AD-A136353] 09 p1374 N84-18969
Heat transfer in oscillatory flow
[DE84-005193] 10 p1494 N84-19768
A Kosloff/Basal method, 3D migration program implemented on the CYBER 205 supercomputer
10 p1562 N84-20232
Error reduction program: A progress report
11 p1609 N84-20536
Dynamic compaction of ceramic materials
[AD-A137257] 11 p1636 N84-20708
Stability of finite difference models containing two boundaries or interfaces
[NASA-CR-172319] 11 p1712 N84-21165
Acta aeronautica et astronautica sinica (selected articles
[AD-A138531] 12 p1764 N84-21506
The effect of compact implicit differencing in a baroclinic primitive equations model 12 p1852 N84-22067
Design for and efficient dynamic climate model with realistic geography 12 p1856 N84-22092
Investigation of the numerical method of moments for digital computer determination of Green's functions
[AD-A138374] 12 p1894 N84-22339
Numerical methods for transient semiconductor device modelling
[AD-A137970] 12 p1913 N84-22462
Calculation of the flow over a stalled airfoil
13 p1925 N84-22531
Numerical analysis of an unsteady shock in an inlet diffuser 13 p1951 N84-22686
Numerical predictions of residence times behind a rearward facing step with transverse injection
13 p1951 N84-22687
A discrete-element analysis for large deflection of thin plates: A combined effect of geometric and material nonlinearities 13 p2003 N84-22995
Further development of XTRAN3S computer program
[NASA-CR-172335] 14 p2101 N84-23603
A finite difference study of the stretching and break-up of filaments of polymer solutions
[AD-A139256] 14 p2130 N84-23767
Finite-difference fluid dynamics computer mathematical models for the design and interpretation of experiments for space flight — atmospheric general circulation experiment, convection in a float zone, and the Bridgman-Stockbarger crystal growing system
[NASA-TP-2323] 14 p2144 N84-23852
Determination of strong ground motion in complex structures using dynamic raytracing
[AD-A138559] 14 p2176 N84-24036
FINDIF: A software package to create synthetic seismograms by finite differences
[AD-A138904] 14 p2183 N84-24081
Diagnostic algorithms for contour dynamics
[AD-P002947] 14 p2198 N84-24187
A finite difference method for any partial differential equation
[AD-P002959] 14 p2200 N84-24199
An explicit predictor-corrector solver with applications to Burgers' equation
[NASA-TM-84402] 14 p2211 N84-24276
Characterization and estimation of 2-dimensional ARMA (Autoregressive Moving Average) models
[AD-A139120] 14 p2211 N84-24279
The efficient use of spectral and finite difference methods for the solution of certain hyperbolic and parabolic problems
[AD-A139477] 14 p2214 N84-24299
Unsteady laminar boundary-layer calculations on oscillating configurations including backflow. Part 2: Airfoil in high-amplitude pitching motion. Dynamic stall
[NASA-TM-84319-PT-2] 15 p2254 N84-24537
Navier-Stokes calculations for the vortex of a rotor in hover
[NASA-TM-85894] 15 p2255 N84-24540
Numerical solution of rectangular anisotropic plates in flexure with free edges
[NPL-DMA(A)-71] 15 p2346 N84-25075
A method to compute the contact force of a body impacting a ring-stiffened cylindrical shell using a lumped parameter finite-difference model
[AD-A139723] 15 p2350 N84-25109
Banded preconditioning for the solution of symmetric positive definite linear systems
[AD-A140097] 15 p2399 N84-25394
Free vibration analysis of uniform and nonuniform cantilever beams by including the effects of transverse shear deformation and rotary inertia
15 p2402 N84-25417
A finite difference method for inverse mode calculations of a three-dimensional boundary layer
[AD-B071559] 16 p2488 N84-25956
Multigrid techniques: The 1984 guide with applications to fluid dynamics 16 p2491 N84-25961
Modification of the ets-invariant code for application of a modular grid network
[AD-A135817] 16 p2547 N84-26347
A computational method for viscous incompressible flows
[NASA-TM-85958] 17 p2600 N84-26664
A solution procedure for three-dimensional incompressible Navier-Stokes equation and its application
[NASA-TM-85978] 17 p2600 N84-26666
A numerical study of the 2- and 3-dimensional unsteady Navier-Stokes equations in velocity-vorticity variables using compact difference schemes
[NASA-CR-172353] 17 p2667 N84-27004
A new second order accurate finite difference method for dynamic response of elastic-plastic finite deformation problems 17 p2678 N84-27056
A numerical model for studying some coastal circulation
[INPE-2904-RPE/444] 17 p2737 N84-27386
Stable explicit schemes for equations of the Schroedinger type
[AD-A140779] 17 p2758 N84-27513
Viscous-inviscid interaction method including wake effects for three-dimensional wing-body configurations
[NASA-TP-1910] 18 p2786 N84-27682
An implementation of the programming structural synthesis system (PROSSS)
[NASA-TM-83180] 18 p2920 N84-28517
Construction of finite difference schemes having special properties for ordinary and partial differential equations
[NASA-CR-173722] 18 p2924 N84-28544
Application of the implicit MacCormack scheme to the parabolized Navier-Stokes equations
[NASA-CR-166579] 19 p3020 N84-29148
A spectral collocation method for the Navier-Stokes equations
[NASA-CR-172365] 19 p3021 N84-29159
Numerical solution for the interaction of shock wave with laminar boundary layer in two-dimensional flow on a flat plate
[NASA-TM-77408] 19 p3022 N84-29160
Mathematical modelling of Laser/Material interactions
[AD-A141096] 19 p3029 N84-29206
A stable explicit scheme for the ocean acoustic wave equation
[AD-A141800] 19 p3062 N84-29427
Elliptic solvers for Mediterranean Sea ocean modeling
[AD-A142306] 19 p3062 N84-29429
An efficient approximate factorization implicit scheme for the equations of gasdynamics
[NASA-TM-85957] 19 p3062 N84-29556
TVD finite difference schemes and artificial viscosity
[NASA-CR-172373] 19 p3062 N84-29559
Applications of the variational integral in iterative numerical solutions to the stationary heat equations
[AD-A141091] 19 p3063 N84-29563
Algorithms for zonal methods and development of three dimensional mesh generation procedures
[AD-A141692] 19 p3086 N84-29582
The factorization method for two points boundary value problems for ODE's and its relation to the finite difference method
[AD-A141829] 19 p3088 N84-29604
Analysis of airfoil transitional separation bubbles
[NASA-CR-3791] 20 p3126 N84-29854
Freejets of rotationally relaxing diatomic gases
20 p3169 N84-30119
Improved methods of vibration analysis of pretwisted, airfoil blades
[NASA-TM-83735] 20 p3200 N84-30329
Modified 5-point and 9-point schemes for the solution of the Vorticity- transport equation with cross derivatives
[AD-A142720] 20 p3284 N84-30851
Stall delay by boundary layer blowing and/or suction
21 p3323 N84-31086
Numerical solution of the Euler and the Navier-Stokes equations for a compressible flow problem
21 p3397 N84-31551
Airblast simulations using flux-corrected transport codes
[AD-A142820] 21 p3400 N84-31567
Efficient finite-difference calculation procedure for multi-dimensional fluid flows
[DE84-011710] 21 p3401 N84-31577
Mathematical modeling of longitudinal profile adjustment in alluvial streams 21 p3425 N84-31726
Environmental impact research program. An implicit, wiggle-free, and accurate upstream finite-difference algorithm for the 1-dimensional transport-diffusion equation
[AD-A143141] 21 p3436 N84-31802
Calculating electric fields in semiconductor structures when singularities are present 21 p3479 N84-32051
Time dependent wave envelope finite difference analysis of sound propagation
[NASA-TM-83744] 21 p3490 N84-32118
A comparison of 2 acoustic parabolic transmission loss models for compatibility with the wavenumber technique in the determination of source depth
[AD-A143079] 21 p3492 N84-32128
Simulation of transonic separated airfoil flow by finite difference viscous-inviscid interaction
[NASA-TM-85960] 22 p3531 N84-32358
A two-fluid instability
[DE84-012899] 22 p3595 N84-32764
Ekman boundary conditions for numerical models of centrifuge flows
[DE84-013576] 22 p3595 N84-32765
Turbine blade and vane heat flux sensor development, phase 1
[NASA-CR-168297] 22 p3598 N84-32790
Quasiconformal mappings and grid generation
[NASA-CR-173920] 22 p3644 N84-33105
Second- and third-order upwind difference schemes for hyperbolic conservation laws
[NASA-TM-85959] 22 p3644 N84-33106
Stability analysis of finite difference schemes for hyperbolic systems, and problems in applied and computational linear algebra
[AD-A143537] 22 p3646 N84-33119
Numerical diffraction by a uniform grid
[DE84-012861] 22 p3646 N84-33121
Modeling of elastic wave propagation by finite difference and finite element methods — seismology
23 p3777 N84-33944
Application of computational fluid dynamics in aircraft design
[AD-A144323] 24 p3854 N84-34441
Variational objective analyses for cyclone studies
24 p3924 N84-34840
A study of some multi-grid ideas
[AD-A144465] 24 p3951 N84-35021

FINITE ELEMENT METHOD

The dynamics and control of large flexible space structures, 6
[NASA-CR-174450] 01 p0027 N84-10173
Lecture notes for Bulk and Hourglass Viscosities in Wave Propagation Codes
[DE83-013042] 01 p0068 N84-10445
Numerical method for computing flow through partially saturated porous media
[DE83-007910] 01 p0081 N84-10529
Limit analysis of plates by a finite element approach
01 p0093 N84-10604
Fracture mechanics of sub-laminate cracks
[AD-A130782] 01 p0096 N84-10623
Blunt-crack band propagation in finite-element analysis for concrete structures
[DE83-010726] 01 p0097 N84-10632
MAGNA (Materially And Geometrically Nonlinear Analysis). Part 2: Preprocessor manual
[AD-A129025] 01 p0120 N84-10782
MAGNA (Materially And Geometrically Nonlinear Analysis). Part 4. Quick-reference manual
[AD-A129026] 01 p0120 N84-10783
A methodology for exploiting parallelism in the finite element process
[NASA-CR-172219] 01 p0127 N84-10831
Optimization of finite element grids using interpolation error 01 p0128 N84-10835
Block iterative methods for elliptic finite element equations
[AD-A129150] 01 p0129 N84-10841
A numerical method in solving a coupled thermoelasticity equation and some results
[AD-A130183] 01 p0129 N84-10843
Element Choices for Explicit and Implicit Nonlinear Finite-Element Computation. The Ispra Courses on Structural Dynamics: Lecture notes
[DE83-013041] 01 p0134 N84-10860
Scattering of waves by irregularities in periodic discrete lattic spaces. Part 2: Calculations
[AD-A130665] 01 p0140 N84-10917
The development of FAST-FLOW (a program for flutter optimization to satisfy multiple flutter requirements)
02 p0171 N84-11124
A finite element study of instabilities in rubber elasticity 02 p0199 N84-11293
Finite-element approach to guided wave problems
[AD-A131623] 02 p0213 N84-11396
Finite element simulation of viscoelastic flows
02 p0217 N84-11423
A finite element analysis of the upper jet region of a fiber drawing flow field 02 p0218 N84-11425
SAGUARO: A finite-element computer program for partially saturated porous flow problems
[DE83-015603] 02 p0219 N84-11438

User's manual for SPECTROM-41: A finite-element heat transfer program
[DE83-014809] 02 p0219 N84-11439
Finite element forced vibration analysis of rotating cyclic structures
[NASA-CR-165430] 02 p0231 N84-11515
Moving finite elements in 2-D
[AD-A131279] 02 p0281 N84-11842
Optimization of constructions by means of the finite element method
[IWECO-5071303-82-2] 02 p0283 N84-11856
Multiplane finite element method: Applications to fiber reinforced material 03 p0348 N84-12261
Stress production and relief in the gold/silicon eutectic die-attach process
[DE83-015230] 03 p0369 N84-12400
Analytical prediction of aerothermal environment in a wing-elevon cove — space shuttle orbiter
[NASA-TM-85711] 03 p0370 N84-12412
Numerical simulation of plastic fluids
[DE83-007911] 03 p0372 N84-12424
Practical computation of multidimensional thermal flows in a gas centrifuge
[DE83-005697] 03 p0372 N84-12426
Buckled plate vibrations, large amplitude vibrations and nonlinear flutter of elastic plates using high-order triangular finite elements 03 p0387 N84-12523
A comparison of finite-element predictions and experimental data for the forced response of the DOE 100 kW vertical-axis wind turbine
[DE83-012624] 03 p0389 N84-12537
Adaptive finite element methods for parabolic partial differential equations
[NASA-CR-174490] 03 p0417 N84-12727
Using PAFEC as a preprocessor for COSMIC/NASTRAN
[DE83-017179] 03 p0421 N84-12755
Design, development and use of the finite element machine
[NASA-CR-172250] 03 p0424 N84-12777
A thin-walled beam finite element
[TT-8302] 03 p0425 N84-12779
Lecture notes for contact-impact algorithms for large-deformation finite-element analysis
[DE83-013039] 03 p0426 N84-12789
Computational models for cyclic plasticity, rate dependence and creep in finite element analysis
[PB83-245829] 04 p0505 N84-13308
Finite-element analysis of an epoxy-curing process
[DE84-000452] 04 p0507 N84-13323
Finite elements and the divergence constraint for viscous flows 04 p0530 N84-13486
Further studies on equal-order interpolation for Navier-Stokes
[DE84-000916] 04 p0534 N84-13512
Construction and verification of a finite-element method for nonisothermal flows in porous media
[DE83-017158] 04 p0536 N84-13522
Finite-element analysis of incompressible laminar and turbulent flow with heat transfer
[DE84-000042] 04 p0536 N84-13523
Modelling of submerged cable dynamics
[AD-A132495] 04 p0544 N84-13580
Alternative shock characterizations for consistent shock-test specification
[DE84-000482] 04 p0549 N84-13619
Solution of groundwater-flow equations using an orthogonal finite-element scheme
[DE84-000690] 04 p0554 N84-13648
User's manual for CABLE: A three-dimensional, finite-segment computer code for submerged and partially submerged cable systems
[AD-A132515] 04 p0579 N84-13821
Development of a GIFTS (graphics-oriented interactive finite-element time-sharing system) plotting package compatible with either PLOT10 or IBM/DSM graphics
[AD-A132195] 04 p0581 N84-13833
Computer implementation, accuracy, and timing of radiation view-factor algorithms
[DE83-017618] 04 p0583 N84-13849
A Numerov-Galerkin technique applied to a finite element shallow-water equations model with enforced conservation of integral invariants and selective lumping
[CSIR-TWISK-276] 04 p0587 N84-13878
NOSTRUM: A finite element program for nonlinear structural mechanics
[TR-18] 04 p0587 N84-13881
Study of the optimal control problem solving in the Bolza form by the finite element method
[INPE-2750-PRE/326] 04 p0588 N84-13884
Nonlinear oscillations of a fluttering panel in a transonic airstream
[AD-A133918] 05 p0627 N84-14124
An application of the finite element method to the solution of low Reynolds number, incompressible flow around a Joukowski aerofoil, with emphasis on automatic generation of grids
[AD-A133008] 05 p0628 N84-14127
Computation of compressible flows using finite elements and optimization techniques 05 p0678 N84-14456
A finite element analysis of incompressible laminar and turbulent flow with heat transfer past irregular surfaces 05 p0682 N84-14485
Continuously deforming finite element method for moving free surface heat transfer problems 05 p0683 N84-14489
A simplified method for elastic-plastic-creep structural analysis
[NASA-TM-83509] 05 p0692 N84-14542
Computer-Aided Structural Engineering (CASE) project. User's guide: Computer program to Calculate Shear, Moment and Thrust (CSMT) from stress results of a two-dimensional finite element analysis
[AD-A134089] 05 p0726 N84-14768
Solving elliptic-parabolic problems
[AD-A133726] 05 p0734 N84-14822
A galerkin-finite element technique for small-scale atmospheric flows and transport over general terrain
[AD-A132735] 05 p0736 N84-14832
Modelling particle - particle interaction at the micro scale
[AD-A133969] 05 p0744 N84-14885
Nonlinear inverse perturbation method in dynamic redesign 06 p0779 N84-15107
Bladed-shrouded-disc aeroelastic analyses: Computer program updates in NASTRAN level 17.7
[NASA-CR-165428] 06 p0790 N84-15154
User's manual for GAMNAS: Geometric and Material Nonlinear Analysis of Structures
[NASA-TM-85734] 06 p0798 N84-15200
Finite element analysis of moisture and external loading effects in composites 06 p0799 N84-15211
An assumed deviatoric stress-velocity-pressure mixed finite element method for unsteady convective, incompressible viscous flow 06 p0833 N84-15420
Introduction to computational fluid dynamics — conferences
[VKI-LS-1983-01] 06 p0834 N84-15429
Equations of fluid flow, finite difference approximations and basic mathematical properties of each 06 p0834 N84-15430
Finite element methods for potential flows 06 p0835 N84-15437
Application of interactive computer graphics in finite element analysis 06 p0856 N84-15575
An integrated system for shells with discontinuities: Geometric modelling and finite element analysis 06 p0856 N84-15576
Nonlinear analysis of thin shells by the hybrid mixed finite-element method 06 p0856 N84-15578
Finite element and boundary element analysis of large strain large displacement problems in elastoplasticity 06 p0857 N84-15580
Theoretical and software considerations for nonlinear dynamic analysis
[NASA-CR-174504] 06 p0858 N84-15589
Eleventh NASTRAN User's Colloquium
[NASA-CP-2284] 06 p0858 N84-15590
BANDIT in NASTRAN 06 p0858 N84-15591
Using PAFEC as a preprocessor for COSMIC/NASTRAN 06 p0858 N84-15593
The GPRIME approach to finite element modeling 06 p0859 N84-15594
Orthotropic hole element 06 p0859 N84-15595
Generalizing the TRAPRG and TRAPAX finite elements 06 p0859 N84-15596
Acoustical modes of arbitrary volumes using NASTRAN transient heat transfer RF9 06 p0859 N84-15597
Finite element analysis of fluid-filled elastic piping systems 06 p0859 N84-15600
Propagating plane harmonic waves through finite length plates of variable thickness using finite element techniques 06 p0860 N84-15601
Propagation of flexural and membrane waves with fluid loaded NASTRAN plate and shell elements 06 p0860 N84-15602
Dynamic certification of a thrust-measuring system for large solid rocket motors 06 p0860 N84-15603
Implementation of elastic-plastic structural analysis into NASTRAN 06 p0860 N84-15606
Efficient large-scale finite-element computations in a CRAY environment
[DE83-014946] 06 p0896 N84-15818
An investigation of the indirect boundary element method in One- and two-dimensional elastostatics
[AD-A133142] 06 p0900 N84-15843
Explicit second order splitting schemes for solving hyperbolic nonlinear problems: Theory and application to transonic flow
[ESA-TT-788] 06 p0902 N84-15855
A survey of solution techniques for nonlinear finite element equations
[NLR-MP-82027-U] 06 p0903 N84-15861
Finite element analysis of a deployable space structure 06 p0932 N84-16056
Progress on a generalized coordinates tensor product finite element 3DPNS algorithm for subsonic
[NASA-CR-172256] 07 p1002 N84-16495
Finite element analysis of incompressible turbulent backstep flow with heat transfer
[DE84-003101] 07 p1003 N84-16502
The principle of virtual work and a principle of virtual heat as a basis for nonlinear finite element analysis
[WTHD-157] 07 p1005 N84-16522
An accurate and economical finite element family for large order structural analysis
[CSIR-ME-1780] 07 p1015 N84-16584
Nonlinear bending and collapse analysis of a poked cylinder and other point-loaded cylinders
[DE84-001853] 07 p1017 N84-16595
Computer programs for seismic analysis of piping systems with special reference to the power piping code B31.1 — pressure vessels
[CRIF-MT-158] 07 p1017 N84-16601
Loads and aeroelasticity division research and technology accomplishments for FY 1983 and plans for FY 1984
[NASA-TM-85740] 08 p1097 N84-17135
Simulation of natural convection in a rectangular loop using finite elements
[DE84-003477] 08 p1160 N84-17550
Development of a thermal and structural model for a NASTRAN finite-element analysis of a hypersonic wing test structure
[NASA-CR-170413] 08 p1170 N84-17620
Frequency and mode shape calculations for vertical axis wind turbines using reduction techniques and complex eigensolvers
[DE84-003316] 08 p1172 N84-17633
Temporal finite elements based on a minimum principle for initial value problems 08 p1216 N84-17935
Journal on Numerical Methods and Computer Applications (selected articles)
[AD-A134752] 08 p1220 N84-17967
A comparison of explicit time integration techniques for the finite element shock wave equations
[AD-A134757] 08 p1220 N84-17968
L2-projection for transferring data between finite element meshes
[DE84-000063] 08 p1221 N84-17973
Numerical computation of steady state scattered sound external to submerged infinite cylinders by combining finite element and integral equation methods
[AD-A134773] 08 p1227 N84-18020
Scale model testing for control system parameters of large structures
[AD-A135652] 09 p1273 N84-18313
Modeling of transient heat pipe operation
[NASA-CR-173305] 09 p1312 N84-18575
Reanalysis methods for structures with laser induced damage
[AD-A135874] 09 p1322 N84-18638
Development of a stress-dependent finite element slab model
[AD-A135836] 09 p1332 N84-18694
Exact and finite-element analysis of laminated shells
[AD-A135849] 09 p1332 N84-18695
Efficient finite element methods for transient nonlinear analysis of shells
[AD-A136044] 09 p1333 N84-18701
Feedback and adaptive finite element solution of one-dimensional boundary value problems
[AD-A136018] 09 p1378 N84-19000
Finite element grid optimization
[AD-A136025] 09 p1378 N84-19001
Finite element analysis of metal forming processes with thermomechanical coupling
[DE84-004879] 10 p1462 N84-19548
Finite element simulation of viscous incompressible flows
[DE84-004355] 10 p1494 N84-19789
The Shock and Vibration Digest, volume 15, no. 7
[AD-A132576] 10 p1505 N84-19845
The Shock and Vibration Bulletin, Part 2: Fluid-structure dynamics and dynamic analysis
[AD-A134453] 10 p1510 N84-19881
Application of the kinetic energy calculation as an aid in mode identification 10 p1511 N84-19888
Dynamic behavior of composite layered beams by the finite element method 10 p1511 N84-19892

Comparison of statistical energy analysis and finite element analysis vibration prediction with experimental results 10 p1516 N84-19923
Modeling material failure with a vectorized routine 10 p1561 N84-20226
Introduction to GEMINI [DE84-005058] 10 p1564 N84-20248
Development and application of the p-version of the finite element method [AD-A137059] 10 p1571 N84-20294
Norm estimates for a maximal right inverse of the divergence operator in spaces of piecewise polynomials [AD-A136889] 10 p1573 N84-20309
Advanced numerics for multi-dimensional fluid flow calculations 11 p1610 N84-20539
Reflected overpressure impulse on a finite structure [AD-A137259] 11 p1653 N84-20792
Finite element investigations of thermo-elastic and thermo-plastic consolidation 11 p1667 N84-20875
Static and dynamic structural-sensitivity derivative calculations in the finite-element-based Engineering Analysis Language (EAL) system [NASA-TM-85743] 11 p1668 N84-20880
Bending of beams subjected to transverse impacts [AD-A137840] 11 p1668 N84-20884
Modeling of the regional hydraulics of the Rustler Formation [DE84-005859] 11 p1672 N84-20910
Modeling and robust control of a compliant robotic manipulator via the finite element method 11 p1703 N84-21102
Design of array processor software for nonlinear structural analysis [AD-A137767] 11 p1706 N84-21124
An accurate and economical plate-bending hybrid finite element 11 p1712 N84-21163
Moving finite elements in 1-D: A review of the method and the coding experience [DE84-004821] 11 p1716 N84-21192
Acta aeronautica et astronautica sinica (selected articles [AD-A138531] 12 p1764 N84-21506
Finite element formulations for tensioned members — large space structures 12 p1780 N84-21615
An extremal-variational principle for unsteady thermal conduction applied to thermoelastic problems using finite elements [MITT-35] 12 p1814 N84-21826
Running stability of large rotor bearing foundation models [ILR-MITT-124/1983] 12 p1823 N84-21887
The NASTRAN user's manual [NASA-SP-222(06)] 12 p1825 N84-21899
Geometrically nonlinear analysis of beam-in-space structures [MITT-28] 12 p1827 N84-21914
Investigation of the earthquake behavior of the research reactor FRJ-2 (DIDO) [JUEL-SPEZ-222] 12 p1848 N84-22047
ESCHER: An interactive mesh-generating editor for preparing finite-element input 12 p1872 N84-22196
Interactive modeling using the PATRAN-G program 12 p1872 N84-22201
Present capabilities and future requirements for computer-aided geometric modeling in the design and manufacture of gas turbine 12 p1875 N84-22219
Application of the PAFEC 75 software package — Program for Automatic Finite Element Calculations (PAFEC) [NPL-QU-66] 12 p1878 N84-22240
Linear and nonlinear finite elements [AD-A138468] 12 p1895 N84-22341
Transonic flow calculations using triangular finite elements 13 p1925 N84-22529
Factors influencing thermomechanical failure of face seals, 3 [AD-A138546] 13 p1997 N84-22961
Finite element analysis of structure subjected to nonstationary load fields with contact interfaces 13 p2002 N84-22993
Influence of extratropical heteorological phenomenon on the northeast Brazilian climate: A study using finite elements [INPE-2912-PRE/425] 13 p2016 N84-23072
A posteriori error analysis in L sub p norms for the finite element method [CTH-MATH-1983-15] 13 p2035 N84-23196
CLFE2D: A generalized plane strain finite element program laminated composites subject to mechanical and hygrothermal loading [NASA-CR-173507] 14 p2157 N84-23921
Finite element analysis of wrinkling membranes [NASA-CR-172325] 14 p2158 N84-23926
Finite element model for nonaxisymmetric structure with rate dependent yield conditions [AD-A139530] 14 p2158 N84-23930
Solution techniques in finite element analysis [AD-A139552] 14 p2158 N84-23931
Comparison of finite element predictions and experimental data for the forced response of the DOE 100 kW vertical axis wind turbine [DE84-007977] 14 p2159 N84-23932
Finite element model to compute stresses in composite masonry due to creep, shrinkage and temperature [PB84-152578] 14 p2159 N84-23933
On the extremum of bilinear functional for hyperbolic type P.D.E. [AD-P002942] 14 p2197 N84-24182
Least squares approximations to compressible flow problems [AD-P002961] 14 p2200 N84-24201
Moving finite element research for shock hydrodynamics, continuum mechanics and combustion [AD-P002970] 14 p2201 N84-24206
Thermal and transformation stresses in hollow tubes during the quenching process [AD-P002976] 14 p2201 N84-24212
Finite element analysis of fabrics with nonlinear stress-strain laws [AD-P002977] 14 p2202 N84-24213
Impact resistance of fiber composites: Energy absorbing mechanisms and environmental effects [NASA-TM-83594] 15 p2284 N84-24712
Bimetal and multimetal galvanic corrosion prediction using long- and short-term polarization curves [AD-A139693] 15 p2297 N84-24786
Numerical simulation of strongly non-isothermal compression molding flows 15 p2306 N84-24834
Finite element analysis of axisymmetric forging 15 p2307 N84-24838
Application of the finite element method to study crystal growth 15 p2307 N84-24840
Low velocity, transverse normal impact of a clamped plate 15 p2310 N84-24860
High speed inviscid compressible flow by the finite element method [NASA-CR-173556] 15 p2332 N84-25002
A finite element method for the gas dynamics equations in 2 dimensions and in conservation form [AD-A139774] 15 p2333 N84-25009
Analysis of deformation and stresses near cold worked holes [NLR-TR-82113-U] 15 p2349 N84-25101
A study of the different solution methods for nonlinear problems [ISD-304] 15 p2396 N84-25376
On the optimal approximation rates for criss-cross finite element spaces [PREPRINT-622] 15 p2397 N84-25378
Banded preconditioning for the solution of symmetric positive definite linear systems [AD-A140097] 15 p2399 N84-25394
On the space shuttle wing thermal-structural analysis 16 p2457 N84-25755
Dynamic crack growth in polymers [AD-P003106] 16 p2467 N84-25811
On crack paths [AD-P003110] 16 p2468 N84-25815
Crack branching, crack arrest and rapid tearing [AD-P003112] 16 p2468 N84-25817
Threadwise analysis of woven fabric composites [NAL-TR-792T] 16 p2470 N84-25832
The computation of inviscid-viscous coupled equations by a finite element method [ONERA-NT-1983-1] 16 p2488 N84-25957
Finite elements in computational fluid dynamics 16 p2491 N84-25982
Second-order effects in complex rheological flows 16 p2494 N84-25999
Element-by-element solution procedures for nonlinear transient heat conduction analysis 16 p2494 N84-26000
Statistical correlation of structural mode shapes from test measurements and NASTRAN analytical values [NASA-TM-86044] 16 p2501 N84-26054
Iterative solution of the three-dimensional nonlinear potential equation of the gas dynamcis for ultrasonic flows 16 p2541 N84-26310
Numerical mathematics by vector calculation: Theory and practical experiments 16 p2549 N84-26356
Validation of the MAGNA (Materially and Geometrically Nonlinear Analysis) computer program for nonlinear finite element analysis of aircraft transparency bird impact [AD-P003229] 17 p2596 N84-26642
MAGNA (Materially and Geometrically Nonlinear Analysis) computer simulation of bird impact on the F-15 aircraft canopy [AD-P003230] 17 p2597 N84-26643
Parametric studies of the T-38 student windshield using the finite element of code MAGNA (Materially and Geometrically Nonlinear Analysis) [AD-P003232] 17 p2597 N84-26645
Development of a thermal and structural model for a NASTRAN finite-element analysis of a hypersonic wing test structure 17 p2599 N84-26656
An adaptive finite element method for high speed compressible flow [NASA-CR-173443] 17 p2601 N84-26669
Space structure vibration modes: How many exist? Which ones are important? [NASA-CR-173442] 17 p2615 N84-26738
Initiation and propagation of shear bands in antiplane shear deformation [AD-A140741] 17 p2624 N84-26794
Durability of structural adhesively bonded systems [AD-A140714] 17 p2626 N84-26805
Numerical analysis of time-dependent inelastic fracture 17 p2677 N84-27054
Three-dimensional non-self-similar crack growth in elastic-plastic materials 17 p2678 N84-27055
A new 48 D.O.F. quadrilateral shell element with variable-order polynomial and rational B-spline geometries with rigid body modes 17 p2678 N84-27058
A triangular anistropic thin shell element based on discrete Kirchoff theory 17 p2678 N84-27060
A study of the stiffened tubular joints using finite element method 17 p2679 N84-27061
Application of micropolar elasticity to the finite element continuum analysis of articulated structures 17 p2679 N84-27064
Finite element analysis of bonded joints [AD-A140559] 17 p2680 N84-27068
The K-distributions extrapolated on the basis of stress intensity rates [NLR-MP-83048-U] 17 p2680 N84-27073
Study of the numerical solution of some diffusion problems using the finite element method [INPE-3003-TDL/154] 17 p2757 N84-27504
Preconditioned iterative methods for nonselfadjoint or indefinite elliptic boundary value problems [AD-A140777] 17 p2758 N84-27511
Radial segregation induced by natural convection and melt/solid interface shape in vertical Bridgman growth [NASA-CR-173627] 17 p2767 N84-27571
Thermal response of Space Shuttle wing during reentry heating [NASA-TM-85907] 18 p2802 N84-27785
A 3-dimensional finite element analysis of delamination growth in composite laminates. Part 1: The energy methods and case-study problems [AD-A141248] 18 p2810 N84-27838
Parameter studies of gear cooling using an automatic finites element mesh generator [NASA-TM-83721] 18 p2849 N84-28087
An investigation of the transient thermal analysis of spur gears [NASA-TM-83724] 18 p2849 N84-28088
User's manual for SAC-3: A 3-dimensional nonlinear, time dependent soil analysis code using the bounding surface plasticity model [AD-A137782] 18 p2853 N84-28114
Verification of the plate element with bending (element 11) of the program OPTIMA [IWECO-5074403-83-2] 18 p2854 N84-28121
Introduction of a finite-element boundary layer model into a regional forecasting model, appendix L 18 p2885 N84-28307
Coupling of the program OPTIMA to the pre and post processor SUPERTAB — finite element program [IWECO-5074403-100-83-1] 18 p2922 N84-28532
The approximation theory for the p-version of the finite element method, part 2 [AD-A140952] 18 p2925 N84-28550
The postprocessing technique in the finite element method the theory and experience [AD-A140953] 18 p2925 N84-28551
Finite element methods for the solution of problems with rough input data [AD-A140955] 18 p2925 N84-28552
Finite element solution of a self-adjoint transport equation in one dimension [AD-A141225] 18 p2926 N84-28557
Mathematical modelling of high-speed ribbon systems: A case study of edge-defined film-fed growth 18 p2938 N84-28632
Free edge strain concentrations in real composite laminates: Experimental-theoretical correlation [NASA-CR-173818] 19 p2986 N84-28919
Strength of bolted joints in laminated composites [AD-A141826] 19 p2986 N84-28921
Analytical model of strength loss in filament wound spherical vessels [DE84-010213] 19 p2986 N84-28923
Methods of analyzing processes of plastic working of metal, part 4 19 p2991 N84-28951
Procedures for signal reconstruction from noisy phase [AD-A142185] 19 p3016 N84-29120

Conforming finite element methods for incompressible and nearly incompressible continua
[AD-A141117] 19 p3023 N84-29171
Three-dimensional finite-element analysis of chevron-notched fracture specimens
[NASA-TM-85798] 19 p3035 N84-29249
A theory of rate-dependent plasticity
[AD-A142102] 19 p3036 N84-29260
Solution of a tridiagonal system of equations on the finite element machine
[NASA-TM-85710] 19 p3080 N84-29543
Applications of the variational integral in iterative numerical solutions to the stationary heat equations
[AD-A141091] 19 p3083 N84-29563
Error estimates for non-linear finite element computations
[AD-A141404] 19 p3084 N84-29571
Local linear independence of the translates of a box spline
[AD-A141749] 19 p3087 N84-29599
The factorization method for two points boundary value problems for ODE's and its relation to the finite difference method
[AD-A141829] 19 p3088 N84-29604
Hybrid modeling of soil-structure interaction in layered media
[PB84-192178] 20 p3171 N84-30137
TOPAZ: A finite element heat conduction code for analyzing 2-D solids
[DE84-010676] 20 p3187 N84-30247
Solving crack problems with analytical techniques and the finite elements method
[BLL-RISLEY-TR-4940-(9091.9F)] 20 p3200 N84-30325
Ring-type support concept for twisted coils (finite element simulation) — stellarators
[IPP-2/271] 20 p3200 N84-30327
Methods for analysis of cracks in three-dimensional solids
[NASA-TM-86266] 20 p3201 N84-30330
Formulation of stiffness matrices for elastic buckling of thin-walled open section prismatic columns
[TT-8402] 20 p3204 N84-30353
Testament of general boundary conditions and point-wise state variable constraints in optimum design for static and dynamic response
[PB84-192749] 20 p3204 N84-30356
Computational method for thermoviscoelasticity with application to rock mechanics
[DE84-003087] 20 p3242 N84-30585
On the extremum of bilinear functional for hyperbolic type partial differential equations
[AD-A142505] 20 p3281 N84-30628
On the design of a Pipelined/Systolic finite element system
[AD-A142558] 20 p3281 N84-30630
Moving finite elements in 2-D. Technical report: Year 3
[DE84-008551] 20 p3282 N84-30640
A finite element method for treating nearly one way wave propagation
[DE84-010294] 20 p3290 N84-30689
Finite-element-analysis of fields radiated from ICRF antenna
[IPPJ-675] 20 p3301 N84-30965
Application of finite element substructuring to composite micromechanics
[NASA-TM-83729] 21 p3356 N84-31288
Calculation of low altitude electromagnetic pulses in the first moments — after a nuclear explosion
[SNIAS-841-422-105] 21 p3388 N84-31503
Another attempt to overcome the bent element blues
[DE84-007785] 21 p3400 N84-31571
Continuum theory for fiber suspensions
[DE84-012258] 21 p3402 N84-31584
A finite element model for the analysis and optimal design of beams and plates with variable flexural rigidity 21 p3417 N84-31668
The response of nonlinear structures to random excitation 21 p3418 N84-31678
Nonlinear Structural Analysis
[NASA-CP-2297] 21 p3419 N84-31688
Slave finite elements: The temporal element approach to nonlinear analysis 21 p3420 N84-31689
New variational formulations of hybrid stress elements 21 p3420 N84-31690
A shear deformable shell element for laminated composites 21 p3420 N84-31691
Nonlinear finite element analysis of shells with large aspect ratio 21 p3420 N84-31692
Self-adaptive solution strategies 21 p3420 N84-31693
Element-by-element solution procedures for nonlinear structural analysis 21 p3420 N84-31694
Automatic finite element generators 21 p3420 N84-31695
Stability and convergence of underintegrated finite element approximations 21 p3420 N84-31696
Interactive finite elements for general engine dynamics analysis 21 p3421 N84-31698
Sideline vertification for multilayer pressure vessel and piping analysis including tangential analysis
[DE84-004333] 21 p3423 N84-31711
Combined experimental/analytical modeling using component mode synthesis
[DE84-013147] 21 p3423 N84-31715
Extension of finite element programs to thermoelastoviscoplastic domains
[CETIM-11-A-102] 21 p3424 N84-31716
DYNA3D user's manual. Nonlinear dynamic analysis of solids in three dimensions, revision 1
[DE84-012828] 21 p3466 N84-31979
A simple rectangular element for 2-dimensional analysis of laminated composites
[NASA-TM-86291] 22 p3544 N84-32439
A finite element implementation of the dual variable method for the Navier-Stokes equations 22 p3592 N84-32746
On the finite element approximation of the stream function-vorticity equations
[AD-A143506] 22 p3594 N84-32758
Computational fluid dynamics at the ICMA (Institute of Computational Mathematics and Applications)
[AD-A143510] 22 p3594 N84-32759
Hybrid stress reduced-Mindlin elements for thin multilayer plates with application to edge contact problems 22 p3606 N84-32857
Twelfth NASTRAN Users' Colloquium
[NASA-CP-2328] 22 p3609 N84-32864
Accuracy of three dimensional solid finite elements 22 p3609 N84-32867
Finite element prediction of acoustic scattering and radiation from submerged elastic structures 22 p3610 N84-32874
On accuracy conditions for the numerical computation of waves
[NASA-CR-172433] 22 p3645 N84-33111
Numerical diffraction by a uniform grid
[DE84-012861] 22 p3646 N84-33121
Combined macroscopic and microscopic approach to the fracture of metals
[DE84-014670] 23 p3719 N84-33577
Three-dimensional finite element analysis of straight and curved through cracks in a plate 23 p3759 N84-33826
Some inherently 3-dimensional problems in linear elastic fracture mechanics 23 p3759 N84-33828
A review of chevron-notched fracture specimens
[NASA-TM-85797] 23 p3760 N84-33834
Modeling of elastic wave propagation by finite difference and finite element methods — seismology 23 p3777 N84-33944
Use of the tensor product for numerical weather prediction by the finite element method, part 2
[AD-A144064] 23 p3802 N84-34108
A multigrid finite element method 23 p3818 N84-34213
Large-scale numerical analysis of three-dimensional seismic waves
[AD-A144610] 24 p3920 N84-34814
A few necessary considerations for the use of the finite element methods by non-specialists
[INPE-3236-PRE/586] 24 p3949 N84-35005

FINITE IMPULSE RESPONSE FILTERS
U FIR FILTERS

FINITE VOLUME METHOD
Calculation of transonic flow around two wing-fuselage combinations using a full potential equation method
[FFA-137] 06 p0783 N84-15132
Explicit multistage finite volume procedure to solve the Euler equations for transonic flow 06 p0838 N84-15464
Vector coding the finite volume procedure for the CYBER 205 06 p0839 N84-15465
Some new developments in exact integral equation formulations for sub- or transonic potential flow
[NLR-MP-82024-U] 06 p0903 N84-15860
A compressible Navier-Stokes code for turbulent flow modeling
[NASA-TM-85899] 12 p1815 N84-21833

FINITE-STATE MACHINES
U TURING MACHINES

FINLAND
Some statistical distributions of air particle trajectories near the ground in Finland
[ILMATIEDE-106] 07 p1035 N84-16716
Diurnal and annual variation of climatic elements in Finland
[T-551.583.13(480)] 18 p2883 N84-28294
Development of air sulfur concentration in Finland through the year 2000
[ISBN-951-697-178-4] 19 p3052 N84-29366

FINNED BODIES
An experimental evaluation of the thermal performance of a rotating heat pipe with internal axial fins
[AD-A132553] 04 p0533 N84-13504

FINS
NT COOLING FINS
A study of the aerodynamic interactions of the tail rotor and fin
[AD-A130757] 01 p0005 N84-10030
Computer program for performance and sizing analysis of compact counter-flow plate-fin heat exchangers, research and development report
[AD-A129856] 01 p0078 N84-10508
Some results from a programme of research into the structure of vortex flow fields around missile shapes 03 p0323 N84-12111
A study to determine the accuracy of 2 computer programs in predicting hinge moments for all movable tail fins on missile bodies
[AD-A133399] 06 p0793 N84-15169
Determination of elevator and rudder hinge forces on the Learjet model 55 aircraft 06 p0880 N84-15604
Tube vibration in industrial-size test heat exchanger (90 deg square layout)
[DE83-011931] 06 p0882 N84-15614
Determination of optimum fin planform and airfoil section for minimizing fin hinge moment
[AD-A134523] 07 p0948 N84-16151
An experimental study on the induced rolling moment due to wing-tail interference and roll-controllable two-stage rocket
[NAL-TR-793] 12 p1777 N84-21599
Preliminary method for estimating hinge moments of all-movable controls
[AD-A139726] 15 p2264 N84-24597
Residual-strength tests of L-1011 vertical fin components after 10 and 20 years of simulated flight service 20 p3145 N84-29970
Temperature and heat-flux distributions in a strip-heated composite slab
[DE84-006016] 23 p3712 N84-33529

FIR FILTERS
The discrete prolate spheroidal filter as a digital signal processing tool 17 p2696 N84-27174

FIRE CONTROL
Integration of Fire Control, Flight Control and Propulsion Control Systems
[AGARD-CP-349] 03 p0315 N84-12056
Integration of fire, flight and propulsion control systems: An overview, retrospective and prospective 03 p0315 N84-12057
Hypervelocity missile: Based on the concept of aircraft/missile integration for maximum firepower 03 p0315 N84-12058
F-16 Penguin anti-ship missile integration 03 p0315 N84-12059
Integration of fire control, navigation system and head up display 03 p0315 N84-12060
A nonlinear control law for piloting aircraft in the air-to-ground attack phase 03 p0317 N84-12071
Connecting aircraft and external loads 06 p0770 N84-15046
System concepts for helicopter air-to-air combat
[SNIAS-832-210-102] 16 p2448 N84-25705
A preliminary investigation on the application of robotics to missile fire control
[AD-A140369] 16 p2456 N84-25751
Simulated 3-dimensional computer graphics training display for air weapons controllers. Volume 2: Users guide
[AD-A141336] 19 p3075 N84-29510
Simulated 3-dimensional computer graphics training display for air weapons controllers, volume 1
[AD-A141347] 19 p3075 N84-29511
F-16 APG-66 fire control radar case study report IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A142075] 20 p3129 N84-29874
Cost-effective and efficient maintenance training devices: A user accepted design process
[AD-P003456] 21 p3509 N84-32233
The 2-on-1 stochastic duel
[AD-A143679] 23 p3820 N84-34224

FIRE DAMAGE
Human behavior 04 p0511 N84-13352
Recent US progress in fire growth modeling 04 p0511 N84-13354

FIRE EXTINGUISHERS
Extinguisher agent behavior in a ventilated small aircraft
[FAA-CT-83-30] 07 p0949 N84-16158
Integrated aircraft fuel tank inerting and compartment fire suppression system. Volume 2: Evaluation of nitrogen-enriched air as a fire suppressant
[AD-A134883] 08 p1101 N84-17157

Dry chemical development: A model for the extinction of hydrocarbon flames
[AD-A137952] 11 p1628 N84-20656
Investigation of the usefulness of the smoke generator Dräger model MK V for fire services exercises onboard ships
[PML-1983-6] 12 p1804 N84-21759
Thermal actuation of extinguishing systems
[PB84-177156] 16 p2478 N84-25886
Evaluation of 95 gpm inductors for aqueous film forming foam
[AD-A141242] 18 p2818 N84-27894

FIRE FIGHTING
Effect of carbon monoxide (CO) on firefighters 04 p0512 N84-13357
Investigation of the usefulness of the smoke generator Dräger model MK V for fire services exercises onboard ships
[PML-1983-6] 12 p1804 N84-21759
FY85 technical objectives document
[AD-A137987] 12 p1917 N84-22493
Evaluation of 95 gpm inductors for aqueous film forming foam
[AD-A141242] 18 p2818 N84-27894
Computer programs for summarizing climatic data stored in the National Fire Weather Data Library
[PB84-197011] 21 p3449 N84-31886

FIRE PREVENTION
Proceedings of the 6th Joint Panel Meeting: UJNR Panel on Fire Research and Safety 04 p0510 N84-13341
Building systems and smoke control 04 p0511 N84-13347
Present state of research in Japan on toxicities of gases during fire 04 p0511 N84-13349
Smoke inhalation injury 04 p0511 N84-13350
Human behavior 04 p0511 N84-13351
Human behavior 04 p0511 N84-13352
Recent Japanese progress in fire modeling 04 p0511 N84-13353
Recent US progress in fire growth modeling 04 p0511 N84-13354
Programmer's manual for the fire safety evaluation system cost minimizer computer program
[PB83-251447] 04 p0517 N84-13395
Fire management-suppression system-concepts relating to aircraft cabin fire safety
[FAA-CT-82-134] 05 p0628 N84-14130
Antimisting kerosene: Base fuel effects, blending and quality control techniques
[NASA-CR-174509] 07 p0980 N84-16351
Atomization and combustion performance of antimisting kerosene and jet fuel
[NASA-CR-174507] 07 p0980 N84-16353
Explosion and fire hazards in an oil-oxygen system — of an airplane
[FOA-C-20507-D1] 08 p1101 N84-17159
New silicon rubber cable insulation promises circuit integrity, in flaming environment 11 p1723 N84-21237
Large scale fire test of cable installed in tunnels 11 p1727 N84-21263
Standard for fire protection of DOE electronic computer/data processing systems
[DE84-007194] 14 p2135 N84-23793
Hazardous conditions in single enclosures subjected to fire
[FOA-C-20524-D6] 15 p2305 N84-24831
Safety recommendation A-84-7 16 p2443 N84-25674
Safety recommendations A-84-12 and -13 16 p2444 N84-25677
Evaluation of an improved flame resistant aircraft window system
[FAA-CT-83-10] 17 p2603 N84-26680
Decision analysis model for passenger-aircraft fire safety with application to fire-blocking of seats
[AD-A142477] 20 p3127 N84-29859

FIRE RETARDANTS
U FLAME RETARDANTS

FIREPROOFING
Fuel fire tests of the helicopter crewman jacket
[AD-A140037] 15 p2385 N84-25302
Safety recommendations A-84-12 and -13 16 p2444 N84-25677

FIRES
NT FOREST FIRES
A laboratory test for evaluating the fire containment characteristics of aircraft class D cargo compartment lining material
[DOT/FAA/CT-83/44] 01 p0006 N84-10035
Advanced Ultra-Violet (UV) aircraft fire detection system. Volume 3: Ground Support Equipment (GSE) for system check-out
[AD-A130298] 01 p0006 N84-10039
Contrast between natural and experimentally controlled fires in forced ventilated enclosures
[DE83-013038] 01 p0057 N84-10373
Development of a calorimeter forimultaneously measuring heat release and mass loss rates
[PB83-222711] 01 p0085 N84-10555
Statistical evaluation of the effectiveness of the 1976 version of the FMVSS 301: Fuel system integrity
[PB83-205211] 01 p0164 N84-11075
Aircraft maintenance and fire
[GPO-24-247] 02 p0169 N84-11112
Significance of a wall effect in enclosures with growing fires
[PB83-235671] 02 p0192 N84-11247
Correlation of laboratory-scale fire test methods for seat blocking layer materials with large-scale test results
[AD-A131666] 03 p0328 N84-12138
Fire investigation 04 p0510 N84-13344
Recent Japanese progress in fire modeling 04 p0511 N84-13353
A study on sound guidance for evacuation: Effect of megaphoned evacuation guidance in smoke 04 p0512 N84-13356
The MGM Grand Hotel fire: A case study of human reaction to fire 04 p0512 N84-13358
Project People 2: An extended interview study of behavior response patterns in health care facility fire incidents 04 p0512 N84-13359
Measuring evacuation difficulty 04 p0512 N84-13363
Modeling of compartment fires 04 p0512 N84-13364
New modeling of compartment fires and problem of flashover 04 p0513 N84-13365
Thermal instability in transient compartment fire: An approach to characterize flashover and estimate its mechanisms 04 p0513 N84-13366
Similarity analysis of the flow characteristics in diffusion flames 04 p0513 N84-13367
The computer fire codes and required new data 04 p0513 N84-13369
Fire modeling research at Factory Mutual 04 p0513 N84-13370
Recent progress at NBS in fire growth modeling 04 p0513 N84-13372
Response of flame spread phenomena to ambient air stream velocity changes 04 p0514 N84-13373
Study of biological samples obtained from victims of MGM Grand Hotel fire 04 p0514 N84-13374
Proposed plan for joint research program between Japan, the USA and Canada concerning gas toxicity in fires 04 p0514 N84-13378
An analysis of potential protective breathing devices intended for use by aircraft passengers
[AD-A132648] 05 p0716 N84-14682
Effects of ventilation and panel properties on temperature rise from aircraft fires
[DOT/FAA/CT-TN83/63] 07 p0949 N84-16157
Integrated aircraft fuel tank inerting and compartment fire suppression system. Volume 2: Evaluation of nitrogen-enriched air as a fire suppressant
[AD-A134883] 08 p1101 N84-17157
Computer modeling of aircraft cabin fires
[PB84-101153] 08 p1101 N84-17162
Fire propagation in concurrent flows
[PB84-100155] 08 p1127 N84-17326
Civilian residential fire fatality rates: Six high-rate states versus six low-rate states
[PB84-102615] 08 p1142 N84-17427
Calculations of wall fire spread in an enclosure
[PB84-123165] 09 p1297 N84-18481
A new engineering approach for cable in fire situations using halogenated polymers 11 p1726 N84-21259
Cable fire studies using the Ohio State University release rate apparatus 11 p1726 N84-21261
Circuit transmission integrity of plenum cables in a developing fire scenario 11 p1726 N84-21262
Thermal actuation of extinguishing systems
[PB84-177156] 16 p2478 N84-25886
Aircraft seat fire blocking layers. Effectiveness and benefits under various scenarios
[AD-A140796] 17 p2603 N84-26681
Fire detection using the NOAA (National Oceanic and Atmospheric Administration)-series satellites
[PB84-176890] 17 p2722 N84-27324
Fire induced flows through room openings - flow coefficients
[PB84-176759] 20 p3151 N84-30011
Natural convection flows and associated heat transfer processes in room fires
[PB84-171172] 20 p3172 N84-30140
Cabin air quality
[GPO-29-522] 20 p3263 N84-30702
A research study of the assessment of escape impairment by irritant combustion gases in postcrash aircraft fires
[FAA-CT-84-16] 22 p3533 N84-32366
A comparative study in the animal of the toxicity of the combustion products of diverse materials 22 p3632 N84-33015

FIREWORKS
U PYROTECHNICS

FIRING (IGNITING)
NT ROCKET FIRING
NT STATIC FIRING
NT TEST FIRING
Path correction of free flight projectiles by cross firing of subsidiary projectiles
[FOA-C-20468-D3] 07 p0962 N84-16236

FIRMWARE
Simple microprogrammed controllers: An alternate approach
[INPE-3069-PRE/486] 23 p3812 N84-34171

FISCHER-TROPSCH PROCESS
New approach to the generation of metal-bearing, medium-pore, shape-selective zeolites for Fischer-Tropsch catalysis: Spectroscopic studies of zeolites
[DE83-014344] 03 p0347 N84-12254
Fischer-Tropsch synthesis in slurry reactors: Summary and analysis of the state of the art
[CSIR-CENG-432] 04 p0493 N84-13234
Development of catalysts for the utilization of carbon monoxide
[DE84-005475] 11 p1629 N84-20659
CO + H/sub 2 reaction over nitrogen-modified iron catalysts
[DE84-009046] 15 p2288 N84-24727

FISH
U FISHES

FISHERIES
Introductory studies of natural contamination and manmade pollution in Danish waters 03 p0399 N84-12608
Applications for fisheries — satellite remote sensing 08 p1176 N84-17663
Commentary on Columbia River instream flows
[PB84-133651] 10 p1527 N84-20007
Maps of favorable areas for tuna fishing to the South and Southeast of Brazil prepared from SMS-2 satellite data
[INPE-3102-PRE/501] 16 p2532 N84-26256
The use of satellite observations of the ocean surface in commercial fishing operations
[AD-P003120] 16 p2533 N84-26261

FISHES
Maps of favorable areas for tuna fishing in the southwestern Atlantic prepared from satellite data
[INPE-2891-PRE/410] 02 p0239 N84-11565
STS-5 (Space Transport System-5) fish kill, Kennedy Space Center, Florida
[AD-A132958] 05 p0700 N84-14595
Maps of favorable areas for tuna fishing to the South and Southeast of Brazil prepared from SMS-2 satellite data
[INPE-3102-PRE/501] 16 p2532 N84-26256

FISHTAILING
U YAW

FISSION ELECTRIC CELLS
NT SNAP 8

FISSION PRODUCTS
Environmental Radiation Data Report 31, July - September 1982
[PB84-104801] 08 p1183 N84-17709
Environmental Radiation Data Report 32, October December 1982
[PB84-104793] 08 p1184 N84-17710
Applications for fission product data to problems in stellar nucleosynthesis
[DE84-004819] 10 p1596 N84-20458
Measurements of atmospheric Kr-85 concentration at ATOMKI from 1966 to 1977 14 p2174 N84-24023

FISSURES (GEOLOGY)
Subsidence monitoring for state of Arizona
[PB84-126960] 08 p1189 N84-17750

FITNESS
NT FLIGHT FITNESS
NT PHYSICAL FITNESS

FITTING
Determination of elemental intensities from direct Auger spectra by pre-filtered least squares fitting
[AERE-R-11226] 18 p2927 N84-28561

FITTINGS
Apparatus for adapting an end effector device remotely controlled manipulator arm
[NASA-CASE-MFS-25949-1] 02 p0229 N84-11501
Self-indexing latch system
[NASA-CASE-MFS-25956-1] 11 p1664 N84-20860
Economic riveting: Different bore qualities, fittings, connection elements 14 p2094 N84-23560

Experimental stress analysis and fatigue tests of five 12-in NPS ANSI Standard B169 tees
[DE84-010280] 18 p2853 N84-28117

FIXED POINT ARITHMETIC
Implementation of the sign-logarithm arithmetic FFT
[AD-A139355] 15 p2396 N84-25373
Tutorial material on the real data types in Ada
[NFL-DITC-34/83] 17 p2751 N84-27458

FIXED POINTS (MATHEMATICS)
The Birkhoff-Lewis fixed point theorem and a conjecture of V. I. Arnold
[AD-A134534] 07 p1062 N84-16886
Process algebra semantics for queues
[MC-IW-241/83] 13 p2037 N84-23219
Equations in Rodrigues-Hamilton parameters for heavy solid body rotating about fixed point
17 p2643 N84-26908

FIXED WINGS
Application of the small body pressure transducer
[AD-A131733] 03 p0377 N84-12454
Rotor systems research aircraft: Fixed-wing simulations results
[NASA-TM-85863] 04 p0483 N84-13176
Numerical studies of the deposition of material released from fixed and rotary wing aircraft
11 p1602 N84-20491
Application of the small body pressure transducer
[AD-P002687] 11 p1659 N84-20622

FIXED-WING AIRCRAFT
U AIRCRAFT CONFIGURATIONS
U FIXED WINGS

FIXTURES
Characterization of microstrip fixtures, a broadband model for a microstrip connector
[FOA-C-30338-E] 12 p1814 N84-21824

FLAKES
Diamondlike flakes
[NASA-CASE-LEW-13837-2] 13 p1953 N84-22696

FLAME FRONTS
U FLAME PROPAGATION

FLAME HOLDERS
A review of theories currently being used to model steady plane flames on flame-holders
[CA-8316] 06 p0800 N84-15218
Second order theory of unsteady burned-anchored flames with arbitrary Lewis number
[CA-8313] 06 p0801 N84-15219

FLAME INTERACTION
U CHEMICAL REACTIONS
U FLAME PROPAGATION

FLAME PROBES
Detection methods for atoms and radicals in the gas phase
[MPIS-1/1983] 10 p1577 N84-20334
Laser probes of propellant combustion chemistry
[AD-A140767] 17 p2628 N84-26814

FLAME PROPAGATION
Flame acceleration mechanisms under conditions of partial confinement
[PB83-244012] 03 p0358 N84-12328
Theoretical and experimental investigation of turbulent premixed flames 03 p0370 N84-12409
Flame radiation and liner heat transfer in a tubular-can combustor
[NASA-TM-83538] 04 p0485 N84-13188
Proceedings of the 6th Joint Panel Meeting: UJNR Panel on Fire Research and Safety 04 p0510 N84-13341
New modeling of compartment fires and problem of flashover 04 p0513 N84-13365
Thermal instability in transient compartment fire: An approach to characterize flashover and estimate its mechanisms 04 p0513 N84-13366
Scaling laws on fire spread 04 p0513 N84-13368
Flame heights, flame radiation and flame spread
04 p0513 N84-13371
Response of flame spread phenomena to ambient air stream velocity changes 04 p0514 N84-13373
High temperature (1645 deg C, 3000 deg F) surface ignition test apparatus for fluids
[AD-A132658] 05 p0649 N84-14288
Studies of flame spread in an opposed flow over surfaces of solid fuels 05 p0652 N84-14296
Identification of problem areas --- unconfined gas explosions 06 p0836 N84-15440
Analytical solutions for the flow field induced by a spherical flame expanding at constant velocity
06 p0836 N84-15445
Bifurcation and stability theory with application to problems of combustion and flame propagation
[AD-A135383] 08 p1124 N84-17306
Fire propagation in concurrent flows
[PB84-100155] 08 p1127 N84-17326
Ignition and unsteady flame propagation in turbulent reactive flows
[AD-A136450] 09 p1279 N84-18349
Transient horizontal flame spread tests on cellular plastics - experimental results, volume 1
[PB84-135458] 10 p1489 N84-19595
Combustion characteristics in the transition region of liquid fuel sprays 11 p1609 N84-20534
Lean limit phenomena 11 p1612 N84-20552
Aerodynamic features of flames in premixed gases
11 p1613 N84-20559
Combustor flame flashback 11 p1614 N84-20561
Dry chemical development: A model for the extinction of hydrocarbon flames
[AD-A137952] 11 p1628 N84-20656
Numerical simulation of flame propagation in a closed vessel
[DE84-004959] 11 p1629 N84-20663
Large scale fire test of cable installed in tunnels
11 p1727 N84-21283
Applications of laser scattering probes to turbulent diffusion flames
[AD-A138207] 12 p1792 N84-21685
Multi-dimensional, multiphase flow analysis of flamespreading in a stick propellant charge
13 p1948 N84-22663
Flashback flame arresters for fuel cargo tanks
15 p2431 N84-25601
Wall effects on combustion in an engine
[AD-A141418] 19 p2966 N84-28796
Thin flame model for reactive flow in porous materials
[DE84-011406] 20 p3150 N84-30002
Vortex methods and turbulent combustion
[DE84-011874] 20 p3150 N84-30004
Quasi-steady flames on an evolving atmosphere
[CAR-8406] 21 p3358 N84-31302
Conditional velocity statistics in premixed CH-4-air and C-2H-4-air turbulent flames
[DE84-012257] 22 p3549 N84-32464
Nonlinear burning stability of solid propellants
[AD-A143573] 22 p3562 N84-32554
Rectangular heat source on a semi-infinite solid: An analysis of a thin film heat flux gage
[DE84-012234] 22 p3599 N84-32796
A study of the burning of a solid fuel surface in partial enclosures 23 p3712 N84-33532
Ignition and flame propagation in sprays
[AD-A143773] 23 p3713 N84-33538
Nickel-iron battery system safety
[NASA-CR-173962] 23 p3744 N84-33733
Theory of vorticity generation by shock wave and flame interactions
[AD-A144432] 24 p3880 N84-34582

FLAME QUENCHING
U EXTINGUISHING
U QUENCHING (COOLING)

FLAME RETARDANTS
Curing of epoxy resins with 1-DI(2-chloroethoxyphosphinyl) methyl-2,4 and -2,6-diaminobenzene
[NASA-TM-84350] 02 p0186 N84-11212
Polymers of phosphonylmethyl-2,4- and -2,6-diamino benzenes and the like
[NASA-CASE-ARC-11506-1] 03 p0356 N84-12313
Proceedings of the 6th Joint Panel Meeting: UJNR Panel on Fire Research and Safety 04 p0510 N84-13341
Current researches on fire retardant materials in Japan 04 p0510 N84-13342
Fire and smoke retardants 04 p0510 N84-13343
Automatic sprinklers 04 p0510 N84-13346
Fire management-suppression system-concepts relating to aircraft cabin fire safety
[FAA-CT-82-134] 05 p0628 N84-14130
Heat sealable, flame and abrasion resistant coated fabric
[NASA-CASE-MSC-18382-2] 05 p0658 N84-14324
Vinyl styrylpyridines and their copolymerization with bismaleimide resins
[NASA-CASE-ARC-11429-1-CU]
07 p0979 N84-16341
Fire-retardant decorative inks for aircraft interiors
[NASA-TM-85876] 10 p1451 N84-19475
Fire resistant polymers based on 1-((dialkoxyphosphonyl)methyl)-2,4- and -2,6-diaminobenzenes
[NASA-CASE-ARC-11512-1] 11 p1637 N84-20702
New silicon rubber cable insulation promises circuit integrity, in flaming environment
11 p1723 N84-21237
Development of flame retardant, low aggressivity cables 11 p1723 N84-21239
Low-smoke, halogenfree ship-offshore/onshore cables with improved flame retardance and fire resistance
11 p1723 N84-21240
Versatile fire barrier systems for telephone cable
11 p1723 N84-21241
Characteristics of heat and flame resistant optical fiber cables 11 p1726 N84-21260
Fire and heat resistant laminating resins based on maleimido substituted aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-1] 13 p1953 N84-22697
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-3] 13 p1961 N84-22745
Safety recommendations A-84-12 and -13
16 p2444 N84-25677
Evaluation of an improved flame resistant aircraft window system
[FAA-CT-83-10] 17 p2603 N84-26680
Thixotropic flame inhibitors for rocket propellant grains
[AD-D011081] 21 p3373 N84-31408
Fire blocking systems for aircraft seat cushions
[NASA-CASE-ARC-11423-1] 23 p3691 N84-33394
Nickel-iron battery system safety
[NASA-CR-173962] 23 p3744 N84-33733

FLAME SPECTROSCOPY
Acoustic modelling and analysis of pulsating combustion in a gas-fired pulse burner 04 p0594 N84-13921
Spectroscopy and kinetics of lead oxide chemiluminescence
[AD-A138250] 12 p1792 N84-21687
Mechanism of soot formation in premixed C2H2/O2 flames 13 p1958 N84-22727

FLAME SPRAYING
Thermally-sprayed active metal coatings for corrosion protection in marine environments
[AD-A140783] 17 p2624 N84-26795
Intermodulation product levels in flame-sprayed materials 22 p3573 N84-32629

FLAME STABILITY
Response of flame spread phenomena to ambient air stream velocity changes 04 p0514 N84-13373
Acoustic modelling and analysis of pulsating combustion in a gas-fired pulse burner 04 p0594 N84-13921
A review of theories currently being used to model steady plane flames on flame-holders
[CA-8316] 06 p0800 N84-15218
A comprehensive model to determine the effects of temperature and species fluctuations on reaction rates in turbulent reaction flows
[NASA-CR-175365] 08 p1155 N84-17520
Evaluation of a candidate model complex flow combustor using instantaneous two-color laser anemometry
10 p1458 N84-19521
Heterogeneous diffusion flame stabilization: Constant density results 13 p1952 N84-22689
Stability of plane near-equidiffusional flames without invoking the constant-density approximation
[AD-P002972] 14 p2201 N84-24208
Nonlinear burning stability of solid propellants
[AD-A143573] 22 p3562 N84-32554

FLAME TEMPERATURE
Laser spectroscopy of propellant-like flames
[AD-A132042] 03 p0349 N84-12267
An evaluation of automated control of the oxyfuel cutting process for M1 vehicle fabrication
[AD-A134073] 05 p0688 N84-14520
Second order theory of unsteady burned-anchored flames with arbitrary Lewis number
[CA-8313] 06 p0801 N84-15219
Intracavity laser excitation of NCO fluorescence in an atmospheric pressure flame
[AD-A134740] 08 p1164 N84-17579
Ionic mechanisms of carbon formation in flames
[AD-A137079] 10 p1455 N84-19505
Investigation of organic oxidizers for high performance low flame temperature gas generator applications
13 p1950 N84-22676

FLAMEOUT
Flame heights, flame radiation and flame spread
04 p0513 N84-13371
Response of flame spread phenomena to ambient air stream velocity changes 04 p0514 N84-13373

FLAMES
NT DIFFUSION FLAMES
NT PREMIXED FLAMES
Soot formation from polycyclic aromatics
[DE83-009750] 03 p0349 N84-12271
N(2) and CO vibrational CARS and h(2) rotational CARS spectroscopy of CH(4)-N(2)O flames
[AD-A132234] 04 p0493 N84-13238
Flame fronts with complex chemical networks
[DE84-001175] 04 p0496 N84-13255
Fire modeling research at Factory Mutual
04 p0513 N84-13370
Flame heights, flame radiation and flame spread
04 p0513 N84-13371
Mechanisms and reaction dynamics related to methane combustion
[PB84-100932] 08 p1128 N84-17333
CARS studies of nitramine lova propellant combustion
[AD-A135813] 09 p1280 N84-18357
Seismic behavior of active beam links in eccentrically braced frames
[PB84-119676] 09 p1297 N84-18480

Atomic and molecular gas phase spectrometry
[AD-A135971] 09 p1392 N84-19088
Ionic mechanisms of carbon formation in flames
[AD-A137079] 10 p1455 N84-19505
Development of the CARS method for measurement of pressure and temperature gradients in centrifuges
[DE84-006321] 11 p1629 N84-20660
Simultaneous multipoint measurements of density gradients and temperature in a flame
[DE84-006832] 12 p1784 N84-21697
Wrinkled-flame calculations revisited
[AD-P002973] 14 p2201 N84-24209
Growth of electrically charged soot particles in flames
15 p2291 N84-24751
A theoretical prediction of the acoustic pressure generated by turbulence-flame front interactions
[NASA-TM-83567] 16 p2553 N84-26383
Theoretical calculations of H(2) CARS spectra for propellant flames
[AD-A135818] 17 p2619 N84-26758
Infrared absorption spectroscopy with color center lasers
[DE84-006812] 19 p2990 N84-28945
Stretch effects in plane premixed hydrogen-air flames
[DE84-012035] 21 p3360 N84-31311
Density fluctuations in premixed turbulent flames
[DE84-012055] 21 p3361 N84-31322
Chemical kinetics in hydrogen-air flames
[DE84-011002] 21 p3361 N84-31323
Pressure effects on wall heat transfer during flame quenching
[DE84-012265] 21 p3401 N84-31575
Unsteady heat transfer during laminar flame quenching
[DE84-006301] 23 p3715 N84-33550
Unsteady heat transfer during the interaction of a laminar flame with a cold wall
23 p3745 N84-33739

FLAMMABILITY
Optimization of aircraft seat cushion fire blocking layers
[NASA-TM-85430] 01 p0006 N84-10037
Improved acrylic systems for rapid runway repair
[AD-A130389] 01 p0016 N84-10103
Research on fire-resistant diesel fuel flammability mitigation mechanisms
[AD-A130743] 01 p0052 N84-10337
Current researches on fire retardant materials in Japan 04 p0510 N84-13342
Fire modeling research at Factory Mutual
04 p0513 N84-13370
Antimisting fuel breakup and flammability
[NASA-CR-174508] 07 p0981 N84-16354
Structure, inhibition and extinction of polymer diffusion flames
[PB84-101336] 08 p1127 N84-17327
Flammability characteristics of some epoxy resins and composites
[AD-A135282] 08 p1137 N84-17394
Transient horizontal flame spread tests on cellular plastics - experimental results, volume 1
[PB84-135458] 10 p1469 N84-19595
Lean limit phenomena 11 p1612 N84-20552
Fire resistant polymers based on 1-((dialkoxyphosphonyl)methyl)-2,4- and -2,6-diaminobenzenes
[NASA-CASE-ARC-11512-1] 11 p1637 N84-20702
Development of flame retardant, low aggressivity cables 11 p1723 N84-21239
Low-smoke, halogenfree ship-offshore/onshore cables with improved flame retardance and fire resistance
11 p1723 N84-21240
Overall fire safer 11 p1727 N84-21264
Flammability testing for the screening of space materials
[ESA-PSS-01-721-ISSUE-1] 16 p2463 N84-25787
Evaluation of an improved flame resistant aircraft window system
[FAA-CT-83-10] 17 p2603 N84-26680
Definition of the concentration gradient above flammable liquids
[DE84-006296] 20 p3149 N84-29996
Chemical kinetics in hydrogen-air flames
[DE84-011002] 21 p3361 N84-31323
Synthesis and characterization of phosphorus-containing polyamides and copolyamides based on 1methyl()-2,4- and -2,6-diaminobenzenes
[NASA-TM-85877] 22 p3543 N84-32431
Effect of gravity on halogenated hydrocarbon flame retardant effectiveness
[NASA-TM-83761] 23 p3713 N84-33596

FLAMMABLE GASES
NT GASEOUS FUELS
NT LIQUEFIED NATURAL GAS
Nickel-iron battery system safety
[NASA-CR-173937] 23 p3790 N84-34035

FLANGES
Inelastic stability of tapered, singly-symmetric beam-columns 02 p0230 N84-11509
Hermetically sealed microminiature multisocket connector
[DE83-017484] 03 p0384 N84-12503
Flexibilities of and stresses in thin unpressurised pipe bends with flanged ends under in-plane bending: Influence of bend angle
[ESDU-81041] 07 p1015 N84-16581
A pressurized cylindrical shell with a fixed end which contains an axial part-through or through crack
[NASA-CR-173291] 08 p1169 N84-17618

FLAP CONTROL
U AIRCRAFT CONTROL
U FLAPS (CONTROL SURFACES)

FLAPPING
Aerodynamics of hovering 17 p2645 N84-26823
A model of rotor blade first natural flapping response for up to three/rev excitations
[AD-A141725] 19 p2963 N84-28782

FLAPS (CONTROL SURFACES)
NT EXTERNALLY BLOWN FLAPS
NT JET FLAPS
NT LEADING EDGE FLAPS
NT SPLIT FLAPS
NT TRAILING-EDGE FLAPS
NT VORTEX FLAPS
NT WING FLAPS
National Aerospace Laboratory News (Japan)
[NASA-TM-76962] 10 p1427 N84-19335
Satellite control by stabilizing flaps
[INPE-2889-TDL/145] 17 p2614 N84-26733
Pitch control of a satellite using stabilizing flaps
[INPE-3185-PRE/550] 21 p3349 N84-31246
Flow-field measurements on an airfoil with an oscillating trailing-edge using holographic interferometry
[NASA-CR-166604] 24 p3852 N84-34430
Stochastic control of pitch motion of satellites using stabilizing flaps
[INPE-3235-PRE/584] 24 p3859 N84-34458

FLARES
An algorithm for the estimation of limiting recognition range of image intensifier systems
[SRDE-7100] 15 p2389 N84-25333
Visible spectra of standard Navy colored flares
[AD-A140342] 16 p2474 N84-25858

FLASH
Comparison of lightning flash rates from the PBE sensor and streak counting from the DMSP satellite
[DE84-006722] 20 p3246 N84-30602

FLASH BLINDNESS
Animal models for the assessment of laser induced eye damage
[AD-P003293] 18 p2908 N84-28443

FLASH LAMPS
Electromagnetic forces related to flash-lamp failures in the Nova/Novette amplifiers
[DE83-016524] 02 p0227 N84-11491
Design and construction of large capacitor banks
[DE84-002790] 07 p0998 N84-16472
Optimized rotary flux compressors for powering laser flashlamps
[DE84-002794] 07 p1010 N84-16555
A z-pinch photo-pumped pulsed atomic iodine laser
[AD-A140033] 15 p2410 N84-25468
High power optical switch for microsecond switching
[AD-D011064] 19 p3017 N84-29123
Computer design and optimization of the active rotary flux compressor
[DE84-010089] 19 p3030 N84-29215
A program to improve solar blind UV (ultraviolet) flash lamps
[AD-A141909] 20 p3177 N84-30177

FLASH POINT
Molecular beam mass spectrometer sampling of flash ignited combustion
[DE84-006771] 22 p3548 N84-32459

FLASH TUBES
U FLASH LAMPS

FLASHBACK
Combustor flame flashback 11 p1614 N84-20561
Flashback flame arresters for fuel cargo tanks
15 p2431 N84-25601
Evaluation of the effect of non-metallic inclusions in steel electrodes on the frequency of flashbacks in mercury-arc rectifiers
[BLL-ERA-TRANS-3002/23] 17 p2662 N84-26982

FLASHING (VAPORIZING)
Investigation of electrochromic effects for display application
[BMFT-FB-T-83-212] 10 p1457 N84-19519

FLASHOVER
Proceedings of the 6th Joint Panel Meeting: UJNR Panel on Fire Research and Safety 04 p0510 N84-13341
Recent Japanese progress in fire modeling
04 p0511 N84-13353
An experimental investigation of electric flashover across solid insulators in vacuum
[NASA-CR-175379] 08 p1149 N84-17478
Calculations of wall fire spread in an enclosure
[PB84-123165] 09 p1297 N84-18481
Hazardous conditions in single enclosures subjected to fire
[FOA-C-20524-D6] 15 p2305 N84-24831

FLAT COAXIAL TRANSMISSION LINES
U MICROSTRIP TRANSMISSION LINES

FLAT PLATES
Computational analyses of unsteady flow past airfoils with flapping and/or pitching motion
01 p0002 N84-10013
Nonperiodic fluctuations induced by stationary surface waviness on a semi-infinite plate
[AD-A130820] 02 p0174 N84-11146
Aspects of second- and third-order panel methods demonstrated for the two-dimensional flat plate problem
[NLR-TR-81074-U] 03 p0373 N84-12433
Experimental studies of unsteady phenomena in boundary layers
[AD-A133769] 05 p0680 N84-14471
Buckling of flat rectangular orthotropic plates - computer program. (Application to laminated composite plates)
[ESDU-81047] 07 p1014 N84-16580
Engineering correlations of variable-property effects on laminar forced convection mass transfer for dilute vapor species and small particles in air
[NASA-CR-168322] 09 p1313 N84-18578
Interaction of unsteady spatial boundary layer with hypersonic flow near rapidly heated portion of surface
13 p1971 N84-22794
Two-dimensional scanner apparatus — flow detector in small flat plates
[NASA-CASE-MFS-25687-1] 13 p1992 N84-22926
Numerical aerodynamic analysis of a free falling autorotating plate
[AD-A138900] 14 p2102 N84-23612
Unsteady laminar boundary-layer calculations on oscillating configurations including backflow. Part 2: Airfoil in high-amplitude pitching motion. Dynamic stall
[NASA-TM-84319-PT-2] 15 p2254 N84-24537
The instability of axisymmetric supersonic jet impinging on flat plate
[BU-287] 15 p2256 N84-24548
The impingement of an underexpanded air jet on square section beams
[BU-291] 15 p2256 N84-24548
Large deflection multimode response of clamped rectangular panels to acoustic excitation, volume 1
[AD-A139622] 15 p2350 N84-25107
Operational demonstration of a field of high performance flat plate collectors with isothermal heat transport
[BMFT-FB-T-83-2] 15 p2362 N84-25171
Non-linear transient response of flat plate to air shock wave
[AD-A140491] 16 p2503 N84-26063
Improvement of flat plate collectors for solar energy conversion
[BMFT-FB-T-84-042] 16 p2519 N84-26167
Effect of operating temperature on the HWB model for solar-collector design
[DE84-900248] 16 p2519 N84-26172
Measurements of the low wavenumber wall pressure spectral density during transition on a flat plate
[AD-A140753] 17 p2668 N84-27013
Effects of nozzle and grid acceleration of corona wind on cooling of a vertical flat plate
[AD-A141224] 18 p2837 N84-28007
High-speed growth of silicon crystals: Flat-plate solar array perspective 18 p2935 N84-28615
Orientation and morphology effects in rapid silicon sheet solidification 18 p2937 N84-28627
Three-dimensional unsteady viscous flow analysis over airfoil sections
[NASA-CR-172368] 19 p3020 N84-29152
Numerical solution for the interaction of shock wave with laminar boundary layer in two-dimensional flow on a flat plate
[NASA-TM-77408] 19 p3022 N84-29160
Acta mechanica sinica (Selected articles)
[AD-A142128] 19 p3024 N84-29180
Interference drag in a simulated wing-fuselage juncture
[NASA-CR-3811] 20 p3126 N84-29853
User's guide to Sphere and Plate Interactive Display Routine (SPIDR)
[DE84-012855] 21 p3466 N84-31976
Is structural interface standardization beneficial?
22 p3585 N84-32702
Qualification tests and electrical measurements: Practice and problems 22 p3585 N84-32703

Hybrid stress reduced-Mindlin elements for thin multilayer plates with application to edge contact problems 22 p3606 N84-32857
Flate-plate photovoltaic power systems handbook for Federal agencies
[NASA-CR-173901] 22 p3617 N84-32921
Numerical solutions for cavitating flow of a fluid with surface tension past a curved obstacle
[AD-A144695] 24 p3901 N84-34704
Stability analysis of elastic-plastic rectangular plate with opening 24 p3958 N84-35062

FLAT SURFACES
Experimental mixed convection heat transfer from a large, vertical surface in a horizontal flow
[HMT-36] 14 p2146 N84-23864
Flat panel — displays
[BMFT-FB-T-84-048] 19 p3019 N84-29141

FLATNESS
Development of fine-structured components for gas discharge displays
[BMFT-FB-T-84-031] 19 p3000 N84-29015

FLATS (LANDFORMS)
Rocky Flats Wind Energy Research Center, fiscal year 1982
[DE84-006829] 14 p2173 N84-24013

FLAVOR (PARTICLE PHYSICS)
Theoretical perspectives on strange physics
[DE83-016085] 04 p0601 N84-13965
Flavor mixing and the six quark model
[USIP-84-08] 20 p3298 N84-30940

FLAW DETECTION
U NONDESTRUCTIVE TESTS

FLAWS
U DEFECTS

FLEXIBILITY
The dynamics and control of large flexible space structures, 6
[NASA-CR-174450] 01 p0027 N84-10173
Control of flexible spacecraft by optimal model following 03 p0342 N84-12222
An experimental study on wave interception by several pairs of balloons and a pair of grouped several balloons in submerged state 07 p0982 N84-16363
Flexibilities of and stresses in thin unpressurised pipe bends with flanged ends under in-plane bending: Influence of bend angle
[ESDU-81041] 07 p1015 N84-16581
Effect of structural flexibility on the design of vibration-isolating mounts for aircraft engines
[NASA-TM-85725] 07 p1016 N84-16590
Flexible substrate for printed wiring
[NASA-TM-77459] 10 p1451 N84-19478
Flexible radiator system
[NASA-CR-171765] 11 p1623 N84-20623
Decoupled control analysis of a large flexible space antenna with linear quadratic regulator comparisons
[NASA-TP-2293] 14 p2115 N84-23675
Vibration and flutter of mistuned bladed-disk assemblies
[NASA-TM-83634] 14 p2157 N84-23923
Flexure hinge
[PB84-178557] 20 p3199 N84-30319
Reliability analysis for stiff versus flexible piping
[DE84-006325] 20 p3203 N84-30344
Multi-variate acceptance plans for flexible airport pavements 21 p3345 N84-31220
Flexible, resilient anti-contamination baffle
[AD-D011111] 22 p3542 N84-32421
Research study for effects of case flexibility on bearing loads and rotor stability
[NASA-CR-171147] 23 p3756 N84-33811
Flexural support member having a high ratio of lateral-to-axial stiffness
[DE84-011104] 23 p3761 N84-33839

FLEXIBLE BODIES
NT FLEXIBLE SPACECRAFT
Flight test and analyses of the B-1 structural mode control system at supersonic flight conditions
[NASA-CR-170405] 04 p0487 N84-13197
Stability enhancement of a flexible robot manipulator
[AD-A134185] 07 p1051 N84-16807
The 2-dimensional inextensible lifting membrane airfoil, theory and experiment
[AD-A135251] 08 p1099 N84-17147
Attitude, control and stabilization 09 p1268 N84-18281
Capture of satellite stabilized by gravity gradient with a flexible mast during and after deployment
[INPE-2749-PRE/325] 10 p1436 N84-19383
Application of control theory to large flexible structures using the independent modal-space control method 13 p1940 N84-22617
Work capsule for lightweight hydrostatic machines
[CSIR-RR-581] 13 p1988 N84-22905
Experimental measurement of material damping for space structures in simulated zero-g
[AD-A139215] 14 p2120 N84-23703
Computer applications to geotechnical engineering
[AD-A139271] 14 p2134 N84-23789
Vehicle dynamic analysis with flexible components
[AD-P002939] 14 p2197 N84-24179
NASA/Howard University Large Space Structures Institute
[NASA-CR-173425] 14 p2244 N84-24476
Stabilization of a flexible body (hoop-column) antenna by feedback control law 14 p2245 N84-24478
The inclusion of flexible joints in the stiffness method
[TT-8401] 18 p2854 N84-28122
SRB/FWC water impact: Flexible body loads test
[NASA-CR-171078] 19 p3020 N84-29147
A numerical scheme for the identification of hybrid systems describing the vibration of flexible beams with tip bodies
[NASA-CR-172388] 19 p3095 N84-29655
Interactive aircraft flight control and aeroelastic stabilization
[NASA-CR-173866] 21 p3344 N84-31214
Parameter estimation for the Euler-Bernoulli beam
[NASA-CR-172417] 22 p3645 N84-33107
Optimizing parameters and controls for maneuvering flexible structures
[AD-A143726] 23 p3701 N84-33457

FLEXIBLE SPACECRAFT
The effects of the space environment on damping materials and damping designs on flexible structures 08 p1110 N84-17217
The 55-meter-structure flight experiment 08 p1112 N84-17233
Validation methods for mathematical models of flexible satellite dynamics
[ESA-CR(P)-1794] 08 p1113 N84-17241
Control of large flexible spacecraft by the independent modal-space control method
[NASA-CR-3760] 09 p1265 N84-18262
Modular design attitude control system
[NASA-CR-170996] 10 p1438 N84-19392
Maintenance and operational enhancement of the flexible spacecraft dynamics program
[NASA-CR-175211] 10 p1439 N84-19394
Precise control of flexible manipulators
[NASA-CR-175389] 10 p1553 N84-20175
Exhibit D modular design attitude control system study
[NASA-CR-170993] 11 p1623 N84-20625
Environmental effects on the dynamics and control of an orbiting large flexible antenna system
[NASA-CR-175448] 11 p1623 N84-20627
Derivation and combination of impedance matrices for flexible satellites
[ESA-STR-209] 12 p1778 N84-21604
NASA/Howard University Large Space Structures Institute
[NASA-CR-173425] 14 p2244 N84-24476
Dynamics and control of flexible orbiting systems 14 p2245 N84-24481
Attitude control on large flexible spacecraft 15 p2268 N84-24620
Low authority control of flexible spacecraft via numerical optimization 15 p2268 N84-24621
A decentralized active control system for a large flexible structure in space 15 p2268 N84-24622
Design and robustness analysis of reduced order controllers for large flexible space vehicles 15 p2269 N84-24623
Innovative structures for space applications
[GAC-19-1563] 16 p2458 N84-25757
Modular design attitude control system
[NASA-CR-173684] 16 p2548 N84-26352
System definition study of deployable, non-metallic space structures
[NASA-CR-171090] 19 p2980 N84-28687
The dynamics and control of large flexible space structures, part 7
[NASA-CR-173781] 19 p2981 N84-28692
Linearized dynamical model for the NASA/IEEE SCOLE configuration
[NASA-CR-172394] 22 p3542 N84-32423

FLEXIBLE WINGS
An evaluation of a mobile aerodynamic test facility for hang glider wings
[COFA-8330] 10 p1432 N84-19361
A computational method for predicting the effects of varying Reynolds number and dynamic pressure on flexible wings at transonic speeds 12 p1764 N84-21508
Evaluation of a digital flight controller for a flexible-fighter aircraft
[AD-A138269] 12 p1772 N84-21558
Aircrew Gliding Escape System (AGES) exploratory development investigation of aircrew emergency escape ram-air inflated, flexible wing
[AD-A139928] 15 p2258 N84-24585

FLEXING
Bond characteristics of epoxy coated reinforced bars
[PB83-205518] 01 p0058 N84-10379
Unidirectional flexural pivot
[NASA-CASE-GSC-12622-1] 03 p0383 N84-12492
Numerical solution of rectangular anisotropic plates in flexure with free edges
[NPL-DMA(A)-71] 15 p2348 N84-25075
SEASAT observations of lithospheric flexure 20 p3221 N84-30463
Double arch mirror study. Part 2: Engineering analysis report
[NASA-CR-166589-PT-2] 21 p3412 N84-31835
Double arch mirror study. Part 3: Fabrication and test report
[NASA-CR-166589-PT-3] 21 p3412 N84-31836
A finite element model for the analysis and optimal design of beams and plates with variable flexural rigidity 21 p3417 N84-31868
Oscillations of elastic airplane due to wind gust 21 p3485 N84-32067
Study of specifics of formation of stress and strain in making circular welded joints in aluminum alloy envelopes 24 p3876 N84-34580

FLEXURE
U FLEXING

FLICKER
Experimental studies relating environmental lighting and flicker to visual fatigue in VDT operators
[DE83-016316] 03 p0419 N84-12738
Time interval errors of a Flicker-noise generator 16 p2480 N84-25902
Method of flicker suppression in television image 17 p2632 N84-26836
Noise of 1/f form in polycrystalline aluminum films 17 p2633 N84-26843
On lo, all that flickers is not cold
[NASA-CR-173447] 17 p2777 N84-27631

FLIGHT
X-29 flight-research program
[NASA-TM-86025] 07 p0951 N84-16168
Flight termination receiver catalog
[AD-A144155] 24 p3894 N84-34657

FLIGHT ALTITUDE
Decompression procedures for flying after diving, and diving at altitudes above sea level
[AD-A132039] 04 p0572 N84-13771
Helistat simulation studies
[NASA-CR-166567] 11 p1614 N84-20564
System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] 24 p3855 N84-34443

FLIGHT CHARACTERISTICS
Experimental methods in flight for the measurement of control characteristics 01 p0014 N84-10091
Limited performance and flying qualities validation of the SGM 2-37 powered sailplane
[AD-A131445] 02 p0178 N84-11165
Airborne laboratory measurement of aircraft performance and stability and control for light aircraft. Supplement
[AD-A131457] 02 p0181 N84-11179
Correlation of flight effects on centerline velocity decay for cold-flow acoustically excited jets
[NASA-TM-83502] 02 p0287 N84-11883
Simulator study of flight characteristics of a large twin-fuselage cargo transport airplane during approach and landing
[NASA-TP-2183] 03 p0337 N84-12190
Power effects on the longitudinal characteristics on single-engine propeller-driven aircraft
[ARL-AERO-REPT-157] 04 p0483 N84-13174
The use of oil for in-flight flow visualization
[NASA-TM-84915] 05 p0627 N84-14122
Evaluation of the effects of lateral and longitudinal aperiodic modes on helicopter instrument flight handling qualities
[AD-A134116] 05 p0629 N84-14135
Tentative STOL (short-takeoff-and-landing) flying qualities criteria for MIL standard and handbook
[AD-A132857] 05 p0629 N84-14136
Space Shuttle flying qualities and flight control system assessment study, phase 2
[NASA-CR-170406] 05 p0633 N84-14158
Flying qualities experiments of rate command/attitude hold systems in the HFB 320 in-flight simulator
[DFVLR-FB-83-25] 06 p0792 N84-15163
Estimation of flight-mechanical motion characteristics with Kalman filters 07 p0944 N84-16126
X-29 flight-research program
[NASA-TM-86025] 07 p0951 N84-16168
Helicopter flying qualities characteristics-CH-46E, volume 1
[AD-A134320] 07 p0951 N84-16170
Helicopter flying qualities characteristics-CH-46E, volume 2
[AD-A134321] 07 p0951 N84-16171

Helicopter flying qualities characteristics-CH-46E, volume 3
[AD-A134322] 07 p0951 N84-16172
Helicopter flying qualities characteristics-CH-46E, volume 4
[AD-A134323] 07 p0951 N84-16173
A helicopter flight investigation of roll-control sensitivity, damping and cross coupling in a low altitude lateral maneuvering task
[NASA-TM-84376] 07 p0959 N84-16216
Mathematical modeling of the aerodynamic characteristics in flight dynamics
[NASA-TM-85880] 08 p1098 N84-17141
Rotary wing aircraft and technical publications of NASA, 1970 - 1982
[NASA-TM-85521] 08 p1239 N84-18102
Comparison of the longitudinal flying qualities of an optimal pilot model, a ground-based simulator and an airborne simulator
[AD-A135853] 09 p1259 N84-18218
Lecture notes on the principles and practice of airplane performance prediction. Part 1: Basic elements
[VTH-LR-385-VOL-1] 10 p1429 N84-19345
Lecture notes on the principles and practice of airplane performance prediction. Part 3: Path performance in quasi steady and unsteady symmetric flight
[VTH-LR-385-VOL-3] 10 p1429 N84-19347
Lecture notes on airplane stability and control 1, part 1
[VTH-LR-384-PT-1] 10 p1431 N84-19357
Lecture notes on airplane stability and control 1, part 2
[VTH-LR-384-PT-2] 10 p1432 N84-19358
Helistat simulation studies
[NASA-CR-166567] 11 p1614 N84-20564
Space shuttle flying qualities criteria assessment, phase 3
[NASA-CR-170407] 11 p1614 N84-20565
Pilot modeling, modal analysis, and control of large flexible aircraft 11 p1617 N84-20584
An optimal control approach to pilot/vehicle analysis and Neal-Smith criteria
[NASA-CR-170416] 12 p1771 N84-21551
Model identification and parameter estimation of the power, lift, and drag of light aircraft from a single maneuver 13 p1930 N84-22552
Characteristics of a prototype experiment 13 p2027 N84-23140
Assessment of the NASA Flight Assurance Review Program
[NASA-CR-173418] 13 p2066 N84-23401
Flight data on liquid-filled shell for spin-up instabilities
[AD-A139136] 14 p2101 N84-23610
Estimation of the flight parameters of low flying aircraft using the radiated noise
[LFD-211] 15 p2259 N84-24569
Computer program to simulate digital computer based longitudinal flight control laws in a high performance aircraft
[AD-A140143] 16 p2451 N84-25719
Flight dynamics and aircraft piloting
[ONERA-P-1983-1] 16 p2539 N84-26301
Intelligent flight data recorder: A contribution to on-condition maintenance and optimization of operation 17 p2585 N84-26568
Performance validation of Lear Siegler flight management systems 17 p2586 N84-26578
Preliminary airworthiness evaluation of the UH-60 helicopter with T700-GE-701A engines installed
[AD-A140682] 17 p2606 N84-26696
In-flight investigation of landing approach flying qualities of transport aircraft with relaxed static stability
[DFVLR-FB-84-11] 17 p2610 N84-26706
Application of selected advanced technologies to high performance, single-engine, business airplanes
[NASA-CR-172361] 18 p2792 N84-27719
Evaluation of HIMAT aircraft landing approach lateral control gearing using simulation and a visual display
[NASA-TM-84916] 18 p2796 N84-27743
Perceptual factors in low altitude flight
[AD-P003329] 18 p2911 N84-28460
Space Shuttle separate-surface control-system study
[NASA-TP-2340] 19 p2967 N84-28801
Flight characteristics of a manned, low-speed, controlled deep stall vehicle
[NASA-TM-86041] 20 p3128 N84-29863
Application of sensitivity analysis to aerodynamic parameters of a bank to turn missile
[AD-A141940] 20 p3134 N84-29899
NASA rotor system research aircraft flight-test data report: Helicopter and compound configuration
[NASA-TM-85643] 22 p3535 N84-32381
Software conversion history of the Flight Dynamics System (FDS)
[NASA-CR-175257] 22 p3539 N84-32404
In-flight investigation of longitudinal flying qualities criteria
[AD-A143614] 23 p3695 N84-33419
High angle of attack test and evaluation techniques for the 1980s 24 p3847 N84-34399

FLIGHT CLOTHING
Absorbent product and articles made therefrom
[NASA-CASE-MSC-18223-2] 02 p0269 N84-11758
Impact response of an energy absorbing earcup
[AD-A134828] 08 p1205 N84-17860
Development of a pressurized anti-exposure barrier system
[AD-A137130] 10 p1553 N84-20178
Report on study trip to France, 28 June-9 July 1983 — protective clothing of flight crews
[FOA-C-58007-H1] 10 p1555 N84-20193
Selected factors affecting aircrew performance during sustained operations 11 p1698 N84-21074
Comparison of real-ear attenuation characteristics of the standard SPH-4 earcup and a prototype crushable earcup
[AD-A138042] 12 p1868 N84-22171
Active noise reduction
[AD-A139741] 15 p2404 N84-25428
Improved G-Tolerance with assisted positive pressure breathing and anti-gravity suit with ready pressure and faster filling
[FOA-A-58002-H1] 19 p3071 N84-29486
Energy-absorbing earcup engineering feasibility evaluation
[AD-A144179] 24 p3938 N84-34924

FLIGHT COMPUTERS
U AIRBORNE/SPACEBORNE COMPUTERS

FLIGHT CONDITIONS
Flight Mechanics and System Design Lessons From Operational Experience
[AGARD-CP-347] 06 p0775 N84-15076
Identification of multivariable high-performance turbofan engine dynamics from closed loop data 11 p1617 N84-20580
Methods and means of improving the working capability of flight personnel 11 p1694 N84-21051
Status, future plans for Aeroflot's meteorological support 18 p2790 N84-27711
Radar meteorology for flight assistance formation of data bank for use of radar and satellite data 18 p2887 N84-28322
Aircraft accident report: Las Vegas Airlines, Flight 88, Piper PA-31-350, Grand Canyon, Arizona, August 17, 1983
[PB84-910405] 19 p2960 N84-28760

FLIGHT CONTROL
NT ANNULAR SUSPENSION AND POINTING SYSTEM
NT AUTOMATIC FLIGHT CONTROL
NT AUTOMATIC LANDING CONTROL
NT FLY BY WIRE CONTROL
NT POINTING CONTROL SYSTEMS
NT THRUST VECTOR CONTROL
Aeronautics Research and Technology Program and specific objectives, fiscal year 1982
[NASA-TM-85474] 01 p0002 N84-10011
Minimum testing of the space shuttle orbiter for stability and control derivatives 01 p0021 N84-10134
Space shuttle descent flight control design requirements and experiments Learned, Pt. 1 p 617-628 01 p0022 N84-10142
The development of aerodynamic uncertainties for the space shuttle orbiter 01 p0026 N84-10164
Fault tolerant architectures for integrated aircraft electronics systems
[NASA-CR-172226] 01 p0119 N84-10769
Investigation of air transportation technology at Princeton University 02 p0169 N84-11108
Distributed processing and fiber optic communications in air data measurements 02 p0169 N84-11110
Proposed revisions to MIL-F-8785C related to flight safety of augmented aircraft. Volume 1. Section 1 - 7
[AD-A131414] 02 p0175 N84-11153
Proposed revisions to MIL-F-8785C related to flight safety of augmented aircraft. Volume 3. Appendix G. Pilot comments
[AD-A131416] 02 p0176 N84-11155
A flight-test evaluation of a go-around control system for a twin engine powered-lift STOL airplane
[NASA-TM-84408] 02 p0181 N84-11178
Airborne laboratory measurement of aircraft performance and stability and control for light aircraft. Supplement
[AD-A131457] 02 p0181 N84-11179
Controls, Displays, and Information Transfer for General Aviation IFR Operations
[NASA-CP-2279] 03 p0311 N84-12029
Analysis of general aviation single-pilot IFR incident data obtained from the NASA Aviation Safety Reporting System 03 p0312 N84-12033
Integration of Fire Control, Flight Control and Propulsion Control Systems
[AGARD-CP-349] 03 p0315 N84-12056
Integration of fire, flight and propulsion control systems: An overview, retrospective and prospective 03 p0315 N84-12057
Hypervelocity missile: Based on the concept of aircraft/missile integration for maximum firepower 03 p0315 N84-12058
Integration of fire control, navigation system and head up display 03 p0315 N84-12060
Application of flight controls technology to engine control systems 03 p0315 N84-12061
Integrated powerplant control systems and potential performance benefits 03 p0316 N84-12063
Full authority digital electronic engine controls and their integration with flight control systems in VSTOL aircraft 03 p0316 N84-12064
Design and development of the multifunction flight control reference system 03 p0316 N84-12065
Some aspects of flight trajectory control in future avionic systems for combat aircraft 03 p0316 N84-12066
A diagnosis scheme for sensors of a flight control system using analytic redundancy 03 p0316 N84-12067
The integration of flight and engine control for VSTOL aircraft 03 p0317 N84-12070
A nonlinear control law for piloting aircraft in the air-to-ground attack phase 03 p0317 N84-12071
Hydraulic generation of auxiliary power for the Mirage 2000 aircraft 03 p0335 N84-12176
A fault-tolerant distributed computer network design and analysis for an integrated flight control system 03 p0336 N84-12189
Design implications from AFTI/F-16 flight test
[NASA-TM-86026] 05 p0632 N84-14157
Space Shuttle flying qualities and flight control system assessment study, phase 2
[NASA-CR-170406] 05 p0633 N84-14158
Advanced F/A-18 avionics 06 p0770 N84-15048
The impact of the F/A-18 aircraft digital flight control system and displays on flight testing and safety 06 p0777 N84-15091
Lessons learned in the development of the F-16 flight control system 06 p0777 N84-15092
Validation of digital systems in avionics and flight control applications handbook, volume 1
[AD-A133222] 06 p0788 N84-15150
AFTI/F-16 flight test results and lessons
[NASA-TM-84920] 06 p0791 N84-15159
A study of digitally controlled flight control actuation
[AD-A133274] 06 p0791 N84-15160
On-board near-optimal climb-dash energy management 07 p0943 N84-16116
Airloads research study. Volume 2: Airload coefficients derived from wind tunnel data
[NASA-CR-170410] 08 p1103 N84-17174
Automation, supervisory control and workload in flight management
[NASA-CR-166474] 08 p1202 N84-17838
The integrated manual and automatic control of complex flight systems
[NASA-CR-173306] 09 p1257 N84-18207
Low-speed handling qualities of advanced transport aircraft: A comparison of ground-based and in-flight simulator experiments
[NLR-TR-82041-U-REV] 09 p1258 N84-18212
Development of a flight simulation concept and aerodynamic buildup for investigation of departure prevention systems in tactical aircraft
[AD-A136182] 09 p1259 N84-18221
Attitude, control and stabilization 09 p1268 N84-18281
Linearised optimal control and application to a gliding projectile
[AD-A135605] 09 p1271 N84-18305
A survey of the Control system Analysis and Synthesis Program (CASPAR) package for Aerospace Research
[VTH-LR-336] 10 p1423 N84-19304
Lecture notes on airplane stability and control 1, part 1
[VTH-LR-384-PT-1] 10 p1431 N84-19357
Lecture notes on airplane stability and control 1, part 2
[VTH-LR-384-PT-2] 10 p1432 N84-19358
Aircraft control position indicator
[NASA-CASE-LAR-12984-1] 11 p1607 N84-20522
Helistat simulation studies
[NASA-CR-166567] 11 p1614 N84-20564
Space shuttle flying qualities criteria assessment, phase 3
[NASA-CR-170407] 11 p1614 N84-20565
NASA Aircraft Controls Research, 1983
[NASA-CP-2296] 11 p1615 N84-20567
NASA control research overview 11 p1615 N84-20568

Feedback laws for fuel minimization for transport aircraft 11 p1617 N84-20579
Foreign technology summary of flight crucial flight control systems 11 p1618 N84-20587
Research opportunities for rotorcraft 11 p1619 N84-20596
Fighter aircraft flight control technology design requirements 11 p1619 N84-20597
Design of longitudinal control laws for the X-29A backup analog flight control system [AD-A137814] 11 p1619 N84-20601
An optimal control approach to pilot/vehicle analysis and Neal-Smith criteria [NASA-CR-170416] 12 p1771 N84-21551
Multivariable digital flight control design for the FPCC (Flight propulsion control coupling) aircraft [AD-A138093] 12 p1772 N84-21556
Evaluation of a digital flight controller for a flexible-fighter aircraft [AD-A138269] 12 p1772 N84-21558
Robust flight controllers [AD-A138425] 12 p1773 N84-21560
Mission operations impact of specific shuttle vehicle improvements [AD-P002152] 14 p2138 N84-23817
AGARD bulletin: Meetings, publications, membership [AGARD-BUL-84/1] 14 p2252 N84-24527
Proceedings of the Workshop on Multivariable Control Systems [AD-A139050] 15 p2253 N84-24529
Design of a complete multivariable digital flight control system [AFIT/GE/EE/82D-18] 15 p2253 N84-24532
Digital multivariable tracker control laws for the C-141-A Starlifter aircraft [AFIT/GE/EE/82D-47] 15 p2254 N84-24533
High-gain error actuated flight control systems for continuous linear multivariable plants [AFIT/GAE/EE/82D-1] 15 p2254 N84-24534
Reconfigurable digital control laws for the A-7D DIGITAC 2 aircraft with failed primary control surfaces [AFIT/GE/EE/82D-59] 15 p2254 N84-24535
Highly integrated digital engine control system on an F-15 airplane [NASA-TM-86040] 15 p2262 N84-24587
Optimal cooperative control synthesis applied to a control-configured aircraft [NASA-CR-170411] 15 p2264 N84-24593
A digital flight control system for an unstable aircraft [BU-292] 15 p2264 N84-24594
Investigation, development, and evaluation of performance proving for fault-tolerant computers [NASA-CR-166006] 15 p2385 N84-25307
STP: A mechanized logic for specification and verification 15 p2386 N84-25308
Specifying and verifying ultra-reliability and fault-tolerance properties 15 p2386 N84-25309
The hierarchical specification and mechanical verification of the SIFT design 15 p2386 N84-25310
Overview of code verification 15 p2386 N84-25311
Full scale wind tunnel tests on hang glider pilots [CA-8416] 16 p2438 N84-25643
Shuttle flight data analysis 16 p2441 N84-25659
Advances in Strapdown Inertial Systems [AGARD-LS-133] 16 p2446 N84-25691
Advances in strapdown inertial systems: Introduction and overview 16 p2446 N84-25692
Computer program to simulate digital computer based longitudinal flight control laws in a high performance aircraft [AD-A140143] 16 p2451 N84-25719
Evolution of a heave control system for an amphibious hovercraft [CAR-8401] 16 p2475 N84-25864
Investigation of interactions between helmet-mounted sight/display, sensor platform and human pilot [ESA-TT-746] 16 p2539 N84-26299
Cockpit data management requirements (current technology aircraft) [AD-A140643] 17 p2607 N84-26699
Analogies between control mechanisms in flight guidance and medicine 17 p2744 N84-27420
Care 3: Hands-on demonstration and tutorial [NASA-TM-85811] 17 p2749 N84-27448
Multivariable digital flight control design of the X-29A [AD-A140983] 18 p2796 N84-27745
Development situation for guiding systems 18 p2797 N84-27747
Perceptual factors in low altitude flight [AD-P003329] 18 p2911 N84-28460
Digital multivariable tracker control laws for the KC-135A [AD-A141118] 19 p2964 N84-28786
Integrated Application of Active Controls (IAAC) technology to an advanced subsonic transport project: Current and advanced act control system definition study. Volume 2: Appendices [NASA-CR-165631-VOL-2] 19 p2967 N84-28803
Interactive flight control system analysis program [NASA-CR-172352] 19 p2968 N84-28807
Pilot interaction with automated airborne decision making systems [NASA-CR-173782] 19 p3068 N84-29464
Digital control loading: A microprocessor-based approach [AD-P003483] 21 p3512 N84-32250
A flight-test and simulation evaluation of the longitudinal final approach and landing performance of an automatic system for a light wing loading STOL aircraft equipped with wing spoilers [NASA-TM-85873] 22 p3537 N84-32393
Development and flight evaluation of an augmented stability active controls concept with a small tail [NASA-CR-173880] 22 p3537 N84-32395
Analysis, testing, and evaluation of faulted and unfaulted Wye, Delta, and open Delta connected electromechanical actuators [NASA-CR-171808] 22 p3585 N84-32707
Propulsion control experience used in the Highly Integrated Digital Electronic Control (HIDEC) program [NASA-TM-85914] 23 p3695 N84-33415
Direct lift command blending [AD-D011178] 23 p3696 N84-33420
Software Implemented Fault-Tolerant (SIFT) user's guide [NASA-TM-86289] 23 p3817 N84-34199
Objectives: Activities and needs of the digital simulation laboratory, attitude and orbit control systems, and the thermal control laboratory of the space mechanics and control department [INPE-3174-RPE/459] 23 p3833 N84-34311
High angle of attack test and evaluation techniques for the 1980s 24 p3847 N84-34399
Flight testing a digital flight control system: Issues and results 24 p3848 N84-34403
A digital linear position sensor for flight control actuation [AD-A144283] 24 p3856 N84-34446

FLIGHT CREWS
NT SPACECREWS
Preliminary investigation of variation in some dark adaptation aspects for possible relevance to military helicopter aircrew [AD-A130231] 01 p0113 N84-10733
Computer-Aided Design and Evaluation Techniques (CADET) [AD-A130146] 01 p0121 N84-10784
Aircraft crew diet in emergency situations 02 p0259 N84-11696
Douglas Aircraft Company Advanced Concept Ejection Seat (ACES 2), revision c [AD-A133628] 05 p0628 N84-14131
Avionics/crew station integration 06 p0769 N84-15042
Guidelines and criteria for the functional integration of avionic systems with crew members in command 06 p0770 N84-15044
Certification experience with methods for minimum crew demonstration 06 p0778 N84-15101
Medical aspects of survival: Training for aircrew [AGARD-AG-283(FR)] 06 p0891 N84-15787
Development of a systems theoretical procedure for evaluation of the work organization of the cockpit crew of a civil transport airplane [NASA-TM-77359] 07 p1051 N84-16806
Aircrew Automated Escape Systems (AAES) In-service Usage Data Analyses, volume 2 [AD-A134834] 08 p1100 N84-17155
Aircrew training devices: Utility and utilization of advanced instructional features. Phase I: Tactical Air Command [AD-A135052] 08 p1106 N84-17190
Assessment of the functional state of the heart muscle in aircrew members by means by bicycle ergometry 08 p1199 N84-17815
The concept of working capacity of the flight crew 08 p1202 N84-17837
Airborne penetration of radioactive clouds [AD-A135848] 09 p1361 N84-18894
Psychological research in USA within the areas of anti-tank helicopter operations and man-computer interactions: Study trip to USA, May-June 1983 [FOA-C-53012-H2] 10 p1552 N84-20172
Report on study trip to France, 28 June-9 July 1983 — protective clothing of flight crews [FOA-C-59007-H1] 10 p1555 N84-20193
Sustained Intensive Air Operations: Physiological and Performance Aspects [AGARD-CP-338] 11 p1696 N84-21062
Behavioral and subjective workload metrics for operational environments 11 p1696 N84-21065
Laboratory studies of aircrew chemical protective ensemble: Effects on pilots' performance 11 p1697 N84-21066
Selected factors affecting aircrew performance during sustained operations 11 p1698 N84-21074
Aircrew fatigue during extended transport, tactical, and command post operations 11 p1698 N84-21075
Thermal constraints in a helicopter during long duration flights under extreme climatic conditions 11 p1698 N84-21078
Workload of personnel engaged in air defence 11 p1699 N84-21079
Human factors of air operations in the South Atlantic campaign 11 p1699 N84-21080
Non-invasive methods of cardiovascular exploration in aerospace medicine [AGARD-AG-277(E)] 11 p1699 N84-21082
Main electrocardiographic abnormalities in the medical examination of flying personnel 11 p1699 N84-21083
The Holter method in aeronautical medicine 11 p1700 N84-21087
Contribution of standard X-ray to cardiovascular exploration during the clinical examination of flying personnel 11 p1700 N84-21088
Contribution of cardiac mechanograms in the expert examination of flying personnel 11 p1700 N84-21089
Echocardiography in the expert examination of flying personnel 11 p1700 N84-21090
Fuel fire tests of the helicopter crewman jacket [AD-A140037] 15 p2385 N84-25302
Helicopter Pilot/Copilot survival system [AD-A140358] 16 p2445 N84-25682
Aeromedical support in military helicopter operations 16 p2536 N84-26280
Back pain in helicopter flight operations 16 p2537 N84-26288
Cleared for the visual approach: Human factor problems in air carrier operations [NASA-CR-166573] 17 p2603 N84-26679
The measurement of C-5A aircrew performance [AD-P003268] 18 p2907 N84-28433
Aircrew performance with simulated advanced radar and FLIR (Forward Looking Infrared) sensors in single- and two-place crew stations [AD-P003269] 18 p2907 N84-28434
Psychological evaluation of aircrew members [AD-P003266] 18 p2908 N84-28440
The military aircrew work environment [FOA-A-59005-H1-H2] 18 p2915 N84-28490
Cockpit data management requirements (current technology aircraft) [FAA-PM-83-25] 19 p2961 N84-28766
A review of US Army aircrew-aircraft integration research programs [NASA-TM-85947] 19 p2968 N84-28809
Crest: Crew escape technologies for the 1990's 20 p3141 N84-29944
Energy management for crew escape systems 20 p3141 N84-29945
A route generator concept for aircraft onboard fault monitoring [NASA-TM-86264] 21 p3326 N84-31104
Uniform mass distribution properties and body size appropriate for the 50 percentile male aircrewmember, 1980 - 1990 [AD-A142946] 21 p3461 N84-31948
New concepts in aircrew training using computer generated imagery: A study report [AD-P003451] 21 p3509 N84-32228
Training the multiple-aircraft combat environment [AD-P003495] 21 p3514 N84-32261
The feasibility, practicality and utility of P-3 inflight refueling [AD-A143419] 22 p3535 N84-32382
Visual information transfer. 1: Assessment of specific information needs. 2: The effects of degraded motion feedback. 3: Parameters of appropriate instrument scanning behavior [NASA-CR-173913] 22 p3633 N84-33020

FLIGHT FATIGUE
Prevention of flight fatigue by physical training 08 p1198 N84-17812
Aircrew fatigue during extended transport, tactical, and command post operations 11 p1698 N84-21075

FLIGHT FITNESS
USSR report: Space Biology and Aerospace Medicine, Vol. 17, No. 6, November - December 1983 94 p [JPRS-USB-84-001] 07 p1044 N84-16769
Investigation of the microcirculation of the conjunctiva in airmen with the initial symptoms of cerebral atherosclerosis 08 p1199 N84-17818

Military Medical Journal, no. 5, May 1983
[L-2404] 11 p1693 N84-21047

FLIGHT HAZARDS
Flight Mechanics and System Design Lessons From Operational Experience
[AGARD-CP-347] 06 p0775 N84-15076
Some comments on the hazards associated with manoeuvring flight in severe turbulence at high speed and low altitude 06 p0776 N84-15089
Safety recommendation(s) A-84-16 16 p2444 N84-25679
Windshield problems on UK operated transport sized jet aircraft 1976 to 1982
[AD-P003228] 17 p2586 N84-26641
Perceptual factors in low altitude flight
[AD-P003329] 18 p2911 N84-28460
A four-dimensional thunderstorm model for flight simulators
[AD-P003492] 21 p3514 N84-32258

FLIGHT INSTRUMENTS
NT APPROACH INDICATORS
NT ATTITUDE INDICATORS
NT AUTOMATIC PILOTS
NT FLIGHT TEST INSTRUMENTS
NT HORIZON SCANNERS
NT RADIO ALTIMETERS
Shuttle flight pressure instrumentation: Experience and lessons for the future 01 p0026 N84-10167
Computer-Aided Design and Evaluation Techniques (CADET)
[AD-A130146] 01 p0121 N84-10784
Computer symbol generator and control panel for an integrated cockpit color display information system
[BMFT-FB-W-83-007] 02 p0179 N84-11169
Single pilot IFR program overview and status 03 p0311 N84-12030
Pilot controls and SPIRF flight 03 p0312 N84-12036
Single pilot scanning behavior in simulated instrument flight 03 p0313 N84-12041
Modern flight instrument displays as a major military aviation flight safety weakness 06 p0778 N84-15098
Aircraft control position indicator
[NASA-CASE-LAR-12964-1] 11 p1607 N84-20522
A new satellite instrument for yaw and pitch measurements
[AD-A138729] 13 p1937 N84-22599
Shock response spectra variational analysis for pyrotechnic qualification testing of flight hardware
[NASA-TP-2315] 14 p2115 N84-23676
Human factors affecting pilot performance in vertical and translational instrument flight
[AD-A139141] 14 p2187 N84-24105
An expert distributed robotics system with comprehension and learning abilities in the aircraft flight domain
[AD-A139626] 15 p2384 N84-25300
Derating requirements and application rules for electronic components
[ESA-PSS-01-301-ISSUE-1] 16 p2484 N84-25930
Single pilot IFR flights and operations
[SNIAS-832-210-103] 16 p2552 N84-26374
Heads up display
[NASA-CASE-LAR-12630-1] 18 p2795 N84-27733
Autopilot performance evaluation Tornado experience and future applications 24 p3849 N84-34407

FLIGHT MECHANICS
AGARD Bulletin, technical programme, 1984
[AGARD-BUL-83/2] 01 p0002 N84-10010
Energy state revisited 07 p0943 N84-16118
Lectures of a Flight Mechanics Conference — conferences
[DFVLR-MITT-83-05] 07 p0944 N84-16120
Development of flight mechanics research in Brunswick 07 p0944 N84-16121
Contributions of flight mechanics to civil air traffic 07 p0944 N84-16124
Influence of measuring section parameters on the results of a flight-mechanical system identification 07 p0944 N84-16125
Estimation of flight-mechanical motion characteristics with Kalman filters 07 p0944 N84-16126
Gusts simulation for flight-mechanical investigations in wind tunnels 07 p0944 N84-16127
Lecture notes on the principles and practice of airplane performance prediction. Part 1: Basic elements
[VTH-LR-365-VOL-1] 10 p1429 N84-19345
AGARD Highlights, September 1983
[AGARD-HIGHLIGHTS-83/2] 12 p1763 N84-21494
Report by the Chairman of the Flight Mechanics Panel 12 p1763 N84-21495
An introduction to the technique of singular perturbations applied to performance optimization problems in atmospheric flight mechanics
[VTH-LR-374] 12 p1769 N84-21540
AGARD bulletin: Meetings, publications, membership
[AGARD-BUL-84/1] 14 p2252 N84-24527
Flight mechanical analysis of dynamic derivatives of the Dornier variation wind tunnel model
[DFVLR-FM-83-38] 15 p2255 N84-24541
Nonlinear problems in flight dynamics
[NASA-TM-85940] 16 p2439 N84-25648
Flight dynamics and aircraft piloting
[ONERA-P-1983-1] 16 p2539 N84-26301
On-line acquisition and processing of flight mechanical data on board the research aircraft of the Technische Universiteit, Brunswick 17 p2587 N84-26585
Flight mechanics test with a restricted flying aircraft model in a wind tunnel
[DFVLR-FB-84-13] 18 p2769 N84-27701
Report of the working group on large-scale computing in aeronautics
[AGARD-AR-209] 23 p3813 N84-34177

FLIGHT OPERATIONS
NT CREW PROCEDURES (INFLIGHT)
IMCS reflight certification requirements and design specifications
[NASA-CR-170968] 08 p1102 N84-17167
Electroluminescent formation lights for HC-130 P/N special operations. 1: Flight test candidates
[AD-A137662] 11 p1606 N84-20516
Aspects of medical examinations of airmen with regard to eye diseases 11 p1694 N84-21048
Advanced Platform Systems Technology study. Volume 3: Supporting data
[NASA-CR-173523] 14 p2115 N84-23673
Aermedical Support in Military Helicopter Operations
[AGARD-LS-134] 16 p2536 N84-26279
Stressful mission profiles, part 1 16 p2536 N84-26281
Visual problems in helicopter operations 16 p2536 N84-26283
Thermal control problems in military helicopters 16 p2537 N84-26286
Medical aspects of helicopter safety and crashworthiness 16 p2537 N84-26287
A study of space station needs, attributes, and architectural options, volume 2, technical. Book 2: Mission implementation concepts
[NASA-CR-173690] 18 p2805 N84-27806
A study of space station needs, attributes and architectural options, volume 2, technical. Book 3: Economic benefits, costs and programmatics
[NASA-CR-173689] 18 p2805 N84-27807
Space station needs, attributes and architectural options. Volume 3, task 1: Mission requirements
[NASA-CR-173712] 18 p2806 N84-27811
Space station needs, attributes and architectural options. Volume 3, attachment 1, task 1: Mission requirements
[NASA-CR-173716] 18 p2806 N84-27812
Space station needs, attributes and architectural options: Mission requirements
[NASA-CR-173691] 18 p2806 N84-27817
A review of US Army aircrew-aircraft integration research programs
[NASA-TM-85947] 19 p2968 N84-28809
Flight data file: STS-4 crew activity plan
[NASA-TM-85502] 19 p2978 N84-28881
Flight operation manual for the MI-8 helicopter
[AD-A143860] 23 p3693 N84-33407

FLIGHT OPTIMIZATION
Omega Data Bank
[AD-A131089] 01 p0008 N84-10046
Optimal symmetric flight with an intermediate vehicle model 07 p0943 N84-16117
Development of the L-1011 four-dimensional flight management system
[NASA-CR-3700] 09 p1254 N84-18183
Flight simulation investigations for the problem of flyability of noise optimal approach and takeoff paths
[IFD-3/83] 14 p2221 N84-24329
Delco performance management system flight test evaluation 17 p2587 N84-26579

FLIGHT PATHS
NT GLIDE PATHS
Influence of physical and air traffic conditions on aircraft noise emission to the ground
[MPIS-11/1982] 02 p0177 N84-11159
Airport capacity alternatives 03 p0329 N84-12149
Optimal symmetric flight with an intermediate vehicle model 07 p0943 N84-16117
Optimal symmetric flight with an intermediate vehicle model
[NASA-CR-173161] 07 p0951 N84-16167
Path discrepancies between great circle and rhumb line
[NASA-TM-85522] 08 p1102 N84-17168
Automated en route air traffic control algorithmic specifications. Volume 2: Airspace probe
[AD-A136850] 10 p1426 N84-19324
Functional integration of vertical flight path and speed control using energy principles 11 p1618 N84-20588
Two-dimensional flight-path reconstruction by means of spline approximation
[NLR-TR-82075-U] 12 p1769 N84-21541
Numerical aerodynamic analysis of a free falling autorotating plate
[AD-A138900] 14 p2102 N84-23612
NASA-FAA helicopter Microwave Landing System curved path flight test
[NASA-TM-85933] 14 p2103 N84-23617
Flight simulation investigations for the problem of flyability of noise optimal approach and takeoff paths
[IFD-3/83] 14 p2221 N84-24329
VTOL shipboard letdown guidance system analysis
[NASA-CR-166519] 16 p2451 N84-25716
Analysing redundant flight path data on two Airbus A-300 aircraft 17 p2586 N84-26577
Command flight path display, phase 1 and 2
[AD-A140870] 17 p2611 N84-26711
Command flight path display, phase 1 and 2. Appendices A - E
[AD-A140871] 17 p2611 N84-26712
Flight Track and Aircraft Noise Monitoring System (FANAMOS)
[NLR-MP-83043-U] 17 p2725 N84-27343
Final STS-11 (41-B) best estimate trajectory products: Development and results from the first Cape landing
[NASA-CR-172349] 18 p2802 N84-27786
Fuel conservative guidance concept for shipboard landing of powered-life aircraft
[NASA-TM-85971] 21 p3344 N84-31215
Minimum-fuel, 3-dimensional flightpath guidance of transfer jets
[NASA-TP-2326] 22 p3537 N84-32394
Airport safety technology: Washington National Airport
[GPO-34-406] 23 p3696 N84-33423
A comparison of storm tracking and extrapolation algorithms
[DOT-FAA-PM-84/1] 23 p3800 N84-34091

FLIGHT PERFORMANCE
U FLIGHT CHARACTERISTICS

FLIGHT PLANS
Automated en route air traffic control algorithmic specifications. Volume 3: Flight plan conflict probe
[AD-A136795] 10 p1425 N84-19319
A route generator concept for aircraft onboard fault monitoring
[NASA-TM-86264] 21 p3326 N84-31104

FLIGHT RECORDERS
Combined environment test of Sangamo Weston SABRE 12 airborne recorder
[AD-A131278] 02 p0223 N84-11463
Crash Position Indicator/Crash Survivable Flight Data Recorder ejectable versus nonejectable
[AD-A132329] 04 p0484 N84-13184
The use of flight recorders in the investigation of aircraft mishaps 06 p0775 N84-15078
The Civil Aircraft Airworthiness Data Recording Programme 06 p0775 N84-15079
Flight parameters recording for safety monitoring and investigations 06 p0775 N84-15083
Proceedings of the 12th Symposium on Aircraft Integrated Data Systems
[DFVLR-MITT-84-01] 17 p2585 N84-26585
Intelligent flight data recorder: A contribution to on-condition maintenance and optimization of operation 17 p2585 N84-26568
Upgraded aircraft accident recorder standards 17 p2586 N84-26574
Deficiencies of current flight data recorders in accidents investigation 17 p2586 N84-26575
The Fairchild Digital Flight Recorder (DFR) F 800 17 p2586 N84-26576
Analysing redundant flight path data on two Airbus A-300 aircraft 17 p2586 N84-26577
Crash Position Indicator/Crash Survival Flight Data Recorder (CPI/CSFDR): Ejectable versus nonejectable 17 p2587 N84-26584

FLIGHT RULES
NT INSTRUMENT FLIGHT RULES
NT VISUAL FLIGHT RULES

FLIGHT SAFETY
Proposed revisions to MIL-F-8785C related to flight safety of augmented aircraft. Volume 1. Section 1 - 7
[AD-A131414] 02 p0175 N84-11153
Proposed revisions to MIL-F-8785C related to flight safety of augmented aircraft. Volume 2. Appendices A - F
[AD-A131415] 02 p0176 N84-11154
Proposed revisions to MIL-F-8785C related to flight safety of augmented aircraft. Volume 3. Appendix G. Pilot comments
[AD-A131416] 02 p0176 N84-11155

The National Airspace System
03 p0329 N84-12146
Technology and the future evolution of the ATC system 03 p0329 N84-12148
Flight Mechanics and System Design Lessons From Operational Experience
[AGARD-CP-347] 06 p0775 N84-15076
Incident reporting: Its role in aviation safety and the acquisition of human error data
06 p0775 N84-15081
The analysis of records of parameters: An indispensable tool in oversight and in operations control
06 p0775 N84-15082
Influence of windshear on flight safety
06 p0776 N84-15088
The MIRAGE 2000: Fly by wire control and safety
06 p0777 N84-15093
Modern flight instrument displays as a major military aviation flight safety weakness 06 p0778 N84-15098
Evaluation and analysis of experience reports concerning wind shear problems
[DFVLR-FB-83-19] 07 p0949 N84-16159
Activities report on air traffic control in the Federal Republic of Germany 09 p1253 N84-18182
Wingtip vortex propeller
[NASA-CASE-LAR-13019-1] 11 p1602 N84-20495
An automated stall-speed warning system
[NASA-TM-84917] 11 p1607 N84-20520
Aircraft accident report: Sierra Pacific Airlines, DHC-6-300, N361V, Hailey, Idaho, February 15, 1983
[PB84-910403] 12 p1767 N84-21525
A hazard in aerobatics: Effects of G-forces on pilots
[FAA-AC-91-61] 12 p1865 N84-22152
System safety study of minimum TCAS II (Traffic Alert and Collision Avoidance System)
[AD-A139674] 13 p1929 N84-22548
Assessment of the NASA Flight Assurance Review Program
[NASA-CR-173418] 13 p2066 N84-23401
General aviation TCAS (Traffic Alert and Collision Avoidance System) avionics (GATCAS)
[AD-A139145] 14 p2104 N84-23618
Evaluation of some hemodynamic parameters of pilots during flights 15 p2376 N84-25256
Safety recommendations A-84-1 through -3
16 p2443 N84-25673
Safety recommendation A-84-7
16 p2443 N84-25674
Safety recommendations A-84-8 and -9, and A-84-17 through -20 16 p2444 N84-25675
Safety recommendation(s) A-84-10 and -11
16 p2444 N84-25676
Safety recommendations A-84-14 and -15
16 p2444 N84-25678
Safety recommendation(s) A-84-16
16 p2444 N84-25679
Aerospatiale's experience on helicopter flight in icing conditions
[SNIAS-832-210-107] 16 p2448 N84-25707
Medical aspects of helicopter safety and crashworthiness 16 p2537 N84-26287
Alternate T-38 transparency development
[AD-P003219] 17 p2595 N84-26632
JUH-1H pneumatic boot deicing system flight test evaluation
[AD-A140986] 18 p2793 N84-27725
Spacecraft-aided aerial studies of atmosphere's electrostatic zones 18 p2864 N84-28184
Perceptual factors in low altitude flight
[AD-P003329] 18 p2911 N84-28460
Cabin air quality
[GPO-29-522] 20 p3263 N84-30702
Airport safety technology: Washington National Airport
[GPO-34-406] 23 p3896 N84-33423

FLIGHT SIMULATION

Flying training R&D (Research and Development) at the Air Force Human Resources Laboratory
[AD-A130250] 01 p0116 N84-10752
Single pilot IFR program overview and status
03 p0311 N84-12030
Single pilot scanning behavior in simulated instrument flight 03 p0313 N84-12041
A simulator evaluation of a rate-enhanced instrument landing system display 03 p0313 N84-12042
Crew station evaluation in a dynamic flight simulation facility 06 p0774 N84-15069
Flying qualities experiments of rate command/attitude hold systems in the HFB 320 in-flight simulator
[DFVLR-FB-83-25] 06 p0792 N84-15163
Optical flow and texture variables useful in simulating self motion (2)
[AD-A133597] 06 p0889 N84-15779
A study of washout filters for a simulator motion base
[UTIAS-TN-246] 07 p0959 N84-16218
Low-level flight simulation: Vertical cues
[AD-A133612] 07 p1050 N84-16802
Instructor station display for use in T-37 flight simulation training
[AD-A134854] 08 p1106 N84-17191
The effect of the artificial far field boundary on a finite different approximation of the Navier-Stokes equations for a compressible fluid
[AD-A135152] 08 p1157 N84-17536
Visual cues in the simulation of low-level flight
[AD-A135461] 08 p1202 N84-17839
Detection of flying targets in front of a land background: Laboratory tests
[FOA-C-56034-H2] 08 p1204 N84-17848
Effects of motion base and g-seat cueing of simulator pilot performance
[NASA-TP-2247] 09 p1255 N84-18189
Low-speed handling qualities of advanced transport aircraft: A comparison of ground-based and in-flight simulator experiments
[NLR-TR-82041-U-REV] 09 p1258 N84-18212
Comparison of the longitudinal flying qualities of an optimal pilot model, a ground-based simulator and an airborne simulator
[AD-A135853] 09 p1259 N84-18218
Surface-attack mission simulation: Preliminary scenario evaluation
[AD-A135868] 09 p1259 N84-18219
Simulation applications at NASA Ames Research Center
[NASA-TM-85846] 10 p1432 N84-19362
Fatigue crack growth in aluminum alloy sheet material under constant amplitude and simplified flight simulation loading
[VTH-LR-381] 10 p1464 N84-19561
Part-task training strategies in simulated carrier landing final approach training
[AD-A136670] 10 p1549 N84-20156
Accuracy of visually perceived roll angle and roll rate using an artificial horizon and peripheral displays
[VTH-LR-377] 10 p1552 N84-20171
Description and analysis of PACAM 5 (Piloted Air Combat Analysis Model) as a tactical decision aid with a user's guide for operation at NPS
[AD-A136793] 10 p1574 N84-20313
Large aircraft handling qualities
11 p1615 N84-20570
Laboratory studies of aircrew chemical protective ensemble: Effects on pilots' performance
11 p1697 N84-21066
Report by the Chairman of the Flight Mechanics Panel
12 p1763 N84-21495
Simulation analysis and derivation of accuracy requirements for future terminal area navigation. Part 1: Single aircraft analysis
[BMFT-FB-W-83-035-PT-1] 12 p1768 N84-21535
Simulation analysis and derivation of accuracy requirements for future terminal area navigation. Part 2: Multi aircraft analysis
[BMFT-FB-W-83-036-PT-2] 12 p1769 N84-21536
The role of simulation in high technology missile applications
[AD-A138277] 12 p1778 N84-21601
Model identification and parameter estimation of the power, lift, and drag of light aircraft from a single maneuver 13 p1930 N84-22552
Atmospheric turbulence simulation for Shuttle orbiter
[NASA-CR-171013] 13 p1938 N84-22602
A spatial model of wind shear and turbulence for flight simulation
[NASA-TP-2313] 14 p2178 N84-24044
Experimental investigation of shock-cell noise reduction for dual-stream nozzles in simulated flight comprehensive data report. Volume 1: Test nozzles and acoustic data
[NASA-CR-168336-VOL-1] 14 p2220 N84-24323
Experimental investigation of shock-cell noise reduction for dual-stream nozzles in simulated flight comprehensive data report. Volume 2: Laser velocimeter data, static pressures and shadowgraph photos
[NASA-CR-168336-VOL-2] 14 p2220 N84-24324
Flight simulation investigations for the problem of flyability of noise optimal approach and takeoff paths
[IFD-3/83] 14 p2221 N84-24329
Effects of simulated flight on the structure and noise of underexpanded jets
[NASA-TP-2308] 15 p2403 N84-25422
F-14 modeling study
[NASA-CR-172336] 16 p2448 N84-25701
System concepts for helicopter air-to-air combat
[SNIAS-832-210-102] 16 p2448 N84-25705
Performance validation of Sperry Flight Management Systems (FMS) 17 p2587 N84-26580
Generation of marker lines by means of marker loads — in flight fatigue tests 17 p2680 N84-27074
Evaluation of HIMAT aircraft landing approach lateral control gearing using simulation and a visual display
[NASA-TM-84916] 18 p2796 N84-27743
Motion simulation with a G-seat system: Sensory and performance mechanisms
[AD-P003267] 18 p2907 N84-28432
Aircrew performance with simulated advanced radar and FLIR (Forward Looking Infrared) sensors in single- and two-place crew stations
[AD-P003269] 18 p2907 N84-28434
A method for three-dimensional modeling of wind-shear environments for flight simulator applications
[NASA-TM-85969] 20 p3127 N84-29857
Improved pilot model for application to a computer flight testing program for helicopters
[NLR-MP-83052-U] 20 p3129 N84-29859
Simulated crash decelerations in a light aircraft cabin
[AD-A142806] 21 p3326 N84-31102
Fuel conservative guidance concept for shipboard landing of powered-lift aircraft
[NASA-TM-85971] 21 p3344 N84-31215
Pilot oriented performance measurement
[AD-P003450] 21 p3508 N84-32227
New concepts in aircrew training using computer generated imagery: A study report
[AD-P003451] 21 p3509 N84-32228
Fiber optic helmet mounted display: A cost effective approach to full visual flight simulation
[AD-P003482] 21 p3512 N84-32249
Digital control loading: A microprocessor-based approach
[AD-P003483] 21 p3512 N84-32250
Training the multiple-aircraft combat environment
[AD-P003495] 21 p3514 N84-32261
JT15D simulated flight data evaluation
[NASA-CR-172322] 22 p3536 N84-32367
Future requirements for airborne simulation
[AGARD-AR-188] 22 p3538 N84-32401
Visual information transfer. 1: Assessment of specific information needs. 2: The effects of degraded motion feedback. 3: Parameters of appropriate instrument scanning behavior
[NASA-CR-173913] 22 p3633 N84-33020
Flight systems raster graphics software reference manual
[ARL-SYS-TM-72] 22 p3639 N84-33072
Experimental investigation of shock-cell noise reduction for single-stream nozzles in simulated flight, comprehensive data report. Volume 1: Test nozzles and acoustic data
[NASA-CR-168234-VOL-1] 22 p3652 N84-33148
In-flight investigation of longitudinal flying qualities criteria
[AD-A143614] 23 p3695 N84-33419
Analysis and selection of a remote docking simulation visual display system
[NASA-CR-171148] 23 p3698 N84-33432
Determination of performance and stability characteristics from dynamic manoeuvres with a transport aircraft using parameter identification techniques
24 p3847 N84-34400
Cryogenic wind tunnel technology. A way to measurement at higher Reynolds numbers
[NASA-TM-77481] 24 p3857 N84-34451
Operating costs of aircraft and flight simulators
[AD-A144241] 24 p3969 N84-35132

FLIGHT SIMULATORS

NT COCKPIT SIMULATORS
Low altitude simulator training: A-10 aircraft
[AD-A130794] 01 p0016 N84-10106
Fixed-base simulator investigation of Display/SCAS requirements for army helicopter low-speed tasks
[AD-A134123] 05 p0630 N84-14140
Simulator scene display evaluation
[NASA-CASE-ARC-11504-1] 07 p0960 N84-16221
Aircrew training devices: Utility and utilization of advanced instructional features. Phase I: Tactical Air Command
[AD-A135052] 08 p1106 N84-17190
Comparison of the longitudinal flying qualities of an optimal pilot model, a ground-based simulator and an airborne simulator
[AD-A135853] 09 p1259 N84-18218
Cost and performance analysis of visual and sensor simulation systems using Defense Mapping Agency data bases
[AD-A135955] 09 p1259 N84-18220
Aircraft simulator: Multiple-cockpit combat mission trainer network
[AD-A137182] 10 p1432 N84-19363
Nonlinear prediction of head movements for helmet-mounted displays
[AD-A136590] 10 p1555 N84-20192
AGARD Highlights, September 1983
[AGARD-HIGHLIGHTS-83/2] 12 p1763 N84-21494

China report: Science and technology
[JPRS-CST-84-009] 12 p1773 N84-21561
First Chinese-built fighter simulator described
12 p1773 N84-21562
Device 2E6 (ACMS) Air Combat Maneuvering Simulator instructor console review
[AD-A138972] 13 p1935 N84-22567
Synthetic flight training system study
[AD-A139392] 14 p2111 N84-23656
Dynamic spacecraft simulators in military space ground systems
[AD-P002159] 14 p2139 N84-23625
A piloted simulator investigation of decoupling helicopters by using a model following control system
[AD-A139976] 15 p2264 N84-24598
Digital control of flight simulator motion base actuator
[ARL-SYS-TM-69] 16 p2454 N84-25732
A three-degree-of-freedom flight simulator for spin-stabilized projectiles
[AD-A140857] 17 p2610 N84-26709
Simulator design features for air-to-ground bombing. Part 1: Performance experiment 1
[AD-A141190] 18 p2798 N84-27753
Motion simulation with a G-seat system: Sensory and performance mechanisms
[AD-P003267] 18 p2907 N84-28432
The measurement of C-5A aircrew performance
[AD-P003268] 18 p2907 N84-28433
Initial validation of a functional age profile for aviators
[AD-P003271] 18 p2907 N84-28436
A method for three-dimensional modeling of wind-shear environments for flight simulator applications
[NASA-TM-85969] 20 p3127 N84-29857
Closing the gap between aircraft and simulator training with Limited Field-Of-View (LFOV) visual systems
[AD-P003448] 21 p3508 N84-32225
Image generator architectures and features
[AD-P003449] 21 p3506 N84-32226
A comparison of simulator procurement/program practices: Military versus commercial
[AD-P003453] 21 p3509 N84-32230
Concurrency of design criteria: A key to trainer readiness
[AD-P003454] 21 p3509 N84-32231
Visual cueing effectiveness: Comparison of perception and flying performance
[AD-P003458] 21 p3510 N84-32235
Managing aircraft/simulator concurrency
[AD-P003463] 21 p3511 N84-32240
Low-Altitude Database Development Evaluation and Research (LADDER)
[AD-P003466] 21 p3511 N84-32243
Fiber optic helmet mounted display: A cost effective approach to full visual flight simulation
[AD-P003482] 21 p3512 N84-32249
Digital control loading: A microprocessor-based approach
[AD-P003483] 21 p3512 N84-32250
A four-dimensional thunderstorm model for flight simulators
[AD-P003492] 21 p3514 N84-32258
Future requirements for airborne simulation
[AGARD-AR-188] 22 p3538 N84-32401
Flight testing a digital flight control system: Issues and results 24 p3848 N84-34403
General integrated Multipurpose Inflight Calibration System (GIMICS) 24 p3851 N84-34420
Fleet project team participation in major aviation training device development, acquisition and support
[AD-A144182] 24 p3857 N84-34452
Comparison of color versus black-and-white visual displays as indicated by bombing and landing performance in the 2B35 TA-4J flight simulator
[AD-A144674] 24 p3857 N84-34455
Manned maneuvering unit simulations on the Space Operations Simulator 24 p3864 N84-34490
F-15 Limited Field of View visual system training effectiveness evaluation
[AD-A144309] 24 p3938 N84-34925
Operating costs of aircraft and flight simulators
[AD-A144241] 24 p3969 N84-35132

FLIGHT STABILITY TESTS
Gust alleviation — numerical analysis
02 p0161 N84-11160
Development and flight test of an active flutter suppression system for the F-4F with stores. Part 3. Flight demonstration of the active flutter suppression system
[AD-A131972] 03 p0337 N84-12191
Development and flight evaluation of an augmented stability active controls concept with a small horizontal tail
[NASA-CR-165951] 19 p2967 N84-26805
Determination of performance and stability characteristics from dynamic manoeuvres with a transport aircraft using parameter identification techniques
24 p3847 N84-34400

FLIGHT STRESS (BIOLOGY)
NT SPACE FLIGHT STRESS
Determination of a subjects condition according to pitch of the vocal vowel 'A' 02 p0261 N84-11714
Bone and calcium alterations during spaceflight
02 p0263 N84-11729
Sleep and wakefulness handbook for flight medical officers
[AGARD-AG-270(FR)] 06 p0891 N84-15788
Thermal constraints in a helicopter during long duration flights under extreme climatic conditions
11 p1698 N84-21078
A hazard in aerobatics: Effects of G-forces on pilots
[FAA-AC-91-61] 12 p1885 N84-22152
Aeromedical support in military helicopter operations
16 p2536 N84-26280
Stressful mission profiles, part 1
16 p2536 N84-26281
Stressful mission profiles, part 2: Workload and fatigue 16 p2536 N84-26282
Physiological assessment of aircraft pilot workload in simulated landing and simulated hostile threat environments
[AD-A140469] 16 p2538 N84-26297
The project Cockpit Instruments and Human Engineering as part of a joint research program on aircraft guidance and control at the Technical University of Brunswick
[ESA-TT-783] 16 p2539 N84-26300

FLIGHT TECHNICAL ERROR
U PILOT ERROR

FLIGHT TEST INSTRUMENTS
CONUS Loran-C error budget: Flight test
[AD-A139871] 15 p2259 N84-24568
A technique to determine lift and drag polars in flight
24 p3848 N84-34402
Flight testing and real time data processing for development and integration of weapon systems
24 p3850 N84-34415

FLIGHT TESTS
NT FLIGHT STABILITY TESTS
NT SPACE TRANSPORTATION SYSTEM FLIGHTS
NT SPACE TRANSPORTATION SYSTEM 1 FLIGHT
NT SPACE TRANSPORTATION SYSTEM 2 FLIGHT
NT SPACE TRANSPORTATION SYSTEM 3 FLIGHT
NT SPACE TRANSPORTATION SYSTEM 4 FLIGHT
NT SPACE TRANSPORTATION SYSTEM 6 FLIGHT
NT SPACE TRANSPORTATION SYSTEM 7 FLIGHT
NT SPACE TRANSPORTATION SYSTEM 8 FLIGHT
NT SPACE TRANSPORTATION SYSTEM 9 FLIGHT
NT SPACE TRANSPORTATION SYSTEM 11 FLIGHT
Flight measurements of hinged-plate wing-spoiler hinge moments --- dhc-6 Twin Otter series 100 aircraft
[NASA-TM-84343] 01 p0003 N84-10021
Flight evaluation results from the general-aviation advanced avionics system program
[NASA-TM-84397] 01 p0007 N84-10042
Experimental methods in flight for the measurement of control characteristics 01 p0014 N84-10091
Launch vehicle aerodynamic flight test results
01 p0019 N84-10119
Ascent air data system results from the space shuttle flight test program 01 p0020 N84-10125
Space shuttle entry longitudinal aerodynamic comparisons of flights 1-4 with preflight predictions
01 p0020 N84-10126
Minimum testing of the space shuttle orbiter for stability and control derivatives 01 p0021 N84-10134
Stability and control over the supersonic and hypersonic speed range 01 p0021 N84-10135
Predicted and flight test results of the performance, stability and control of the space shuttle from reentry to landing 01 p0022 N84-10136
Approach and landing characteristics of the space shuttle orbiter Learned, Pt. 1 p 637-651
01 p0023 N84-10143
Flight test derived heating math models for critical locations on the orbiter during reentry
01 p0023 N84-10147
Shuttle orbiter boundary layer transition at flight and wind tunnel conditions 01 p0023 N84-10149
Orbiter windward surface entry Heating: Post-orbital flight test program update 01 p0024 N84-10150
Space shuttle orbiter leading-edge flight performance compared to design goals 01 p0025 N84-10161
The development of aerodynamic uncertainties for the space shuttle orbiter 01 p0026 N84-10164
The calibration and flight test performance of the space shuttle orbiter air data system 01 p0026 N84-10165
AFFTC overview of orbiter-reentry flight-test results
01 p0027 N84-10169
Data acquisition for stall/spin flight research
02 p0169 N84-11111
Performance of the collision avoidance logic during preliminary flight tests of the traffic alert and collision avoidance system (TCAS 3)
[MTR-82W238] 02 p0176 N84-11158
Development and flight test of an active flutter suppression system for the F-4F with stores. Part 2: Ground tests and subcritical flight tests
[AD-A131402] 02 p0178 N84-11163
Limited performance and flying qualities validation of the SGM 2-37 powered sailplane
[AD-A131445] 02 p0178 N84-11165
A flight-test evaluation of a go-around control system for a twin engine powered-lift STOL airplane
[NASA-TM-84408] 02 p0181 N84-11178
Advanced symbology for general aviation approach to landing displays 03 p0313 N84-12039
An overview of the demonstration advanced avionics system guest pilot evaluation conducted at Ames Research Center 03 p0314 N84-12049
Flight tests for a strapdown system (MSS): The results of a special flight test
[ESA-TT-818] 03 p0330 N84-12153
Development and flight test of an active flutter suppression system for the F-4F with stores. Part 3. Flight demonstration of the active flutter suppression system
[AD-A131972] 03 p0337 N84-12191
Radar investigation of soils and sea (ERASME): C band helicopter-borne scatterometer. Application to soil moisture measurement 03 p0396 N84-12586
Flight testing the Rotor Systems Research Aircraft (RSRA)
[NASA-TM-85852] 04 p0483 N84-13177
Preliminary airworthiness evaluation of the UH-60A configured with the External Stores Support System (ESSS)
[AD-A132964] 05 p0630 N84-14139
Design implications from AFTI/F-16 flight test
[NASA-TM-86026] 05 p0632 N84-14157
Rotorcraft icing technology: An update
06 p0776 N84-15084
The impact of the F/A-18 aircraft digital flight control system and displays on flight testing and safety
06 p0777 N84-15091
Calibration of air-data systems and flow direction sensors. AGARD Flight Test Techniques Series, volume 1
[AGARD-AG-300-VOL-1] 06 p0848 N84-15530
A mercuric detector system for X-ray astronomy. 2. Results from flight tests of a balloon borne instrument
[NASA-CR-175329] 06 p0938 N84-16095
Aeronautical propulsion: Present status and future directions
[NASA-TM-83589] 07 p0943 N84-16119
Design of a lateral ride comfort control system for STOL aircraft
[UTIAS-TN-247] 07 p0950 N84-16165
Helicopter flying qualities characteristics-CH-46E, volume 3
[AD-A134322] 07 p0951 N84-16172
Real-time pilot guidance system for improved flight test maneuvers
[NASA-TM-84922] 07 p0952 N84-16176
Flight test experience with pilot-induced-oscillation suppression filters
[NASA-TM-86028] 07 p0958 N84-16213
A comparison of two position estimate algorithms that use ILS localizer and DME information. Simulation and flight test results
[NASA-TP-2281] 08 p1102 N84-17165
Airloads research study. Volume 1: Flight test loads acquisition
[NASA-CR-170409] 08 p1103 N84-17173
STEP flight experiments Large Deployable Reflector (LDR) telescope 08 p1112 N84-17231
Flight test of a synthetic aperture radar antenna using STEP 08 p1113 N84-17237
GEOS 1 and 2 in flight evaluation of the reaction control system
[SEP-TS/S/194/JM/30301/81(1)]
08 p1113 N84-17242
Preliminary field tests for detecting flying targets in front of a land background --- ground observers
[FOA-C-56033-H2] 08 p1204 N84-17847
Detection of flying targets in front of a land background: Field tests --- human observers
[FOA-C-56035-H2] 08 p1204 N84-17849
A cost prediction model for electronic systems flight test costs
[AD-A135598] 09 p1255 N84-18195
Flight evaluation of the DEEC secondary control air-start capability
[NASA-TM-84910] 09 p1257 N84-18203
Low-speed handling qualities of advanced transport aircraft: A comparison of ground-based and in-flight simulator experiments
[NLR-TR-82041-U-REV] 09 p1258 N84-18212
Integration of flight test data into a real-time simulation
09 p1259 N84-18216
Electric Remotely Piloted Vehicle (ERPV)
[AD-A136201] 09 p1310 N84-18563

Effect of creep in titanium alloy Ti-6Al-4V at elevated temperature on aircraft design and flight test
[NASA-TM-86033] 09 p1330 N84-18685
In-flight acoustic testing techniques using the YO-3A Acoustic Research Aircraft
[NASA-TM-85895] 10 p1427 N84-19334
Long term in-service evaluation of CFRP components (spoilers) on Airbus A300, phase 1
[BMFT-FB-W-83-026] 10 p1429 N84-19344
Flight service evaluation of composite components on the Bell helicopter model 206L, flight service report
[NASA-CR-172296] 10 p1452 N84-19479
Testing for severe aerodynamically induced vibration environments 10 p1513 N84-19905
Evaluation of installation of Lightweight Doppler Navigation System (LDNS) in Iroquois UH-1H aircraft
[AD-A137815] 11 p1605 N84-20510
A review of recent developments in flight test techniques at the Ames Research Center, Dryden Flight Research Facility
[NASA-TM-86039] 11 p1606 N84-20515
An automated stall-speed warning system
[NASA-TM-84917] 11 p1607 N84-20520
The development of an airborne instrumentation computer system for flight test
[NASA-TM-86036] 11 p1607 N84-20521
Flight test results for the Digital Integrated Automatic Landing Systems (DIALS): A modern control full-state feedback design 11 p1618 N84-20589
Development of the parachute recovery system for the LBRV-2 reentry vehicle
[DE84-001540] 12 p1766 N84-21518
The role of simulation in the development and flight test of the HIMAT vehicle
[NASA-TM-84912] 12 p1769 N84-21537
Development and flight test evaluation of an analytical model of the air-to-air tracking task
[AD-A138058] 12 p1772 N84-21555
Study on synthesis and characterization of large space systems, phase 2. Part 3: Experimental design verification techniques
[ESA-CR(P)-1779-VOL-5] 12 p1781 N84-21620
Proposals for additions, modifications, and new experimental methods. Part 1: Ground tests. Part 2: Flight tests — large space structures 12 p1781 N84-21623
Study of stator-vane fluctuating pressures in a turbofan engine for static and flight tests
[NASA-TP-2217] 12 p1898 N84-22363
Data acquisition and aerodynamic coefficient estimation at high angles of attack 13 p1927 N84-22542
The 310 airbus test in the ONERA wind tunnel: Flight-wind tunnel comparison 14 p2098 N84-23587
NASA-FAA helicopter Microwave Landing System curved path flight test
[NASA-TM-85933] 14 p2103 N84-23617
Ground correlation investigation of thruster spacecraft interactions to be measured on the IAPS flight test
[NASA-TM-83598] 14 p2118 N84-23691
An aeroelastician's perspective of wind tunnel and flight experiences with active control of structural response and stability
[NASA-TM-85761] 14 p2157 N84-23924
Airbus A-310. Tests in the ONERA's F1 wind tunnel: Comparison of flight/wind tunnel
[SNIAS-832-111-110] 15 p2257 N84-24556
Development and flight test of a helicopter compact, portable, precision landing system concept
[NASA-TM-85951] 15 p2259 N84-24566
Evaluation of some hemodynamic parameters of pilots during flights 15 p2376 N84-25256
Noise measurement flight test: Data/Analyses Bell 222 twin jet helicopter
[AD-A139906] 15 p2404 N84-25430
CONUS (Continental United States) Omega/VLF data collection: Flight test
[AD-A140252] 16 p2446 N84-25688
Aeroepatiale's experience on helicopter flight in icing conditions
[SNIAS-832-210-107] 16 p2448 N84-25707
A comparison of parameter estimation results from flight test data using linear and nonlinear maximum likelihood methods
[DFVLR-FB-84-06] 16 p2449 N84-25708
Design and implementation of input signals for identification of pilot/aircraft models
[DFVLR-FB-84-08] 16 p2449 N84-25709
Performance validation of Lear Siegler flight management systems 17 p2586 N84-26578
Delco performance management system flight test evaluation 17 p2587 N84-26579
Preliminary airworthiness evaluation of the Rutan Aircraft Factory (RAF), Incorporated LONG-EZ airplane
[AD-A140765] 17 p2606 N84-26695
A device for measurement of control column forces in aircraft
[AD-A140876] 17 p2607 N84-26700
Acoustic flight testing of advanced design propellers on a JetStar aircraft 18 p2783 N84-27661
Nacelle Aerodynamic and Inertial Loads (NAIL) project
[NASA-CR-165807] 18 p2786 N84-27685
KC-135 Winglet Program Review
[NASA-CP-2211] 18 p2787 N84-27686
KC-135 winglet program overview 18 p2787 N84-27687
KC-135 wing and winglet flight pressure distributions, loads, and wing deflection results with some wind tunnel comparisons 18 p2787 N84-27688
In-flight lift and drag measurements on a first generation jet transport equipped with winglets 18 p2787 N84-27689
Measurements of the fuel mileage of a KC-135 aircraft with and without winglets 18 p2787 N84-27690
Comparison of flight measured, predicted and wind tunnel measured winglet characteristics on a KC-135 aircraft 18 p2787 N84-27691
KC-135A winglet flight flutter program 18 p2788 N84-27692
Development and evaluation of a performance modeling flight test approach based on quasi steady-state maneuvers
[NASA-CR-170414] 18 p2793 N84-27724
JUH-1H pneumatic boot deicing system flight test evaluation
[AD-A140966] 18 p2793 N84-27725
The measurement of C-5A aircrew performance
[AD-P003268] 18 p2907 N84-28433
Nacelle Aerodynamic and Inertial Loads (NAIL) project
[NASA-CR-3585] 19 p2963 N84-28777
Aircraft surface coatings
[NASA-CR-165926] 19 p2963 N84-28778
An explanation of spin-up instabilities for a 155mm binary projectile
[AD-A141534] 19 p3023 N84-29173
Fuel savings potential of the NASA Advanced Turboprop Program
[NASA-TM-83736] 20 p3130 N84-29878
Flight investigation of various control inputs intended for parameter estimation
[NASA-TM-85901] 20 p3131 N84-29884
Simulator evaluation of a remotely piloted vehicle lateral landing task using a visual display
[NASA-TM-85903] 20 p3131 N84-29885
APL/JHU free flight tests of the general purpose heat source module. Testing: 5-7 March 1984
[DE84-011065] 20 p3299 N84-30948
Lightning swept-stroke attachment patterns and flight conditions for storm hazards 1981
[NASA-TM-86279] 22 p3532 N84-32365
An investigation of a new flight test method for measuring the performance of general aviation aircraft 22 p3534 N84-32375
NASA rotor system research aircraft flight-test data report: Helicopter and compound configuration
[NASA-TM-85843] 22 p3535 N84-32381
Air data position-error calibration using state reconstruction techniques
[NASA-TM-86029] 22 p3535 N84-32384
A flight-test and simulation evaluation of the longitudinal final approach and landing performance of an automatic system for a light wing loading STOL aircraft equipped with wing spoilers
[NASA-TM-85873] 22 p3537 N84-32393
Development and flight evaluation of an augmented stability active controls concept with a small tail
[NASA-CR-173880] 22 p3537 N84-32395
An experimental and theoretical investigation of deposition patterns from an agricultural airplane
[NASA-TP-2348] 23 p3689 N84-33379
In-flight investigation of longitudinal flying qualities criteria
[AD-A143614] 23 p3695 N84-33419
Modular Optoelectronic Multispectral Scanner (MOMS)-01 on STS-7 and STS-11: Missions and results 23 p3765 N84-33862
Flight Test Techniques
[AGARD-CP-373] 24 p3847 N84-34396
The flight test of an automatic spin prevention system 24 p3847 N84-34398
High angle of attack test and evaluation techniques for the 1980s 24 p3847 N84-34399
Determination of performance and stability characteristics from dynamic manoeuvres with a transport aircraft using parameter identification techniques 24 p3847 N84-34400
A technique to determine lift and drag polars in flight 24 p3848 N84-34402
Flight testing a digital flight control system: Issues and results 24 p3848 N84-34403
Aircraft tests in the clearance program for the use of a combat aircraft from a runway after damage repair 24 p3848 N84-34404
Flight test techniques employed in the Nimrod MR MK 2 weapon system performance trials 24 p3849 N84-34410
Flight test techniques used for proof of structural integrity of Tornado when carrying external stores 24 p3849 N84-34413
Real time flight test conduction and monitoring 24 p3850 N84-34414
Real time testing: The next generation 24 p3850 N84-34416
An extended real-time microwave airplane position system 24 p3850 N84-34419
General Integrated Multipurpose Inflight Calibration System (GIMICS) 24 p3851 N84-34420
The development of an airborne instrumentation computer system for flight test 24 p3851 N84-34421
GROB G-112: Flight testing fulfills expectations
[NASA-TM-77745] 24 p3854 N84-34438
Identification and verification of frequency-domain models for XV-15 tilt-rotor aircraft dynamics
[NASA-TM-86009] 24 p3856 N84-34445

FLIGHT TIME
Sortie duration and helicopter component failures (an empirical study)
[AD-A134745] 08 p1095 N84-17122
Dynamics of changes in metabolic and endocrine processes in helicopter crews during commercial flights 15 p2375 N84-25254
Models for the evaluation of work loads of crews during long distance flight 17 p2744 N84-27422
Flight data file: STS-4 crew activity plan
[NASA-TM-85502] 19 p2978 N84-28881
Fuel conservative guidance concept for shipboard landing of powered-lift aircraft
[NASA-TM-85971] 21 p3344 N84-31215

FLIGHT TRAINING
NT SPACE FLIGHT TRAINING
Integrated Cuing Requirements (ICR) study: Feasibility analysis and demonstration study
[AD-A131039] 01 p0117 N84-10758
A reliability and failure mode analysis of celestial training device microcomputers employed by SAC and MAC
[AD-A135003] 06 p1209 N84-17885
First Chinese-built fighter simulator described 12 p1773 N84-21582
Part-task training of tracking in manual control
[AD-A138346] 12 p1868 N84-22175
Synthetic flight training system study
[AD-A139392] 14 p2111 N84-23656
Airsickness during Naval flight officer training: Fleet readiness squadrons
[AD-A138973] 14 p2185 N84-24095
Closing the gap between aircraft and simulator training with Limited Field-Of-View (LFOV) visual systems
[AD-P003448] 21 p3508 N84-32225
Image generator architectures and features
[AD-P003449] 21 p3508 N84-32226
New concepts in aircrew training using computer generated imagery: A study report
[AD-P003451] 21 p3509 N84-32228
Operating costs of aircraft and flight simulators
[AD-A144241] 24 p3969 N84-35132

FLIP-FLOPS
An algebraic method for hazard analysis with the maximum number of spikes in combinational and sequential circuits
[AD-P002369] 14 p2194 N84-24160
Optical flip-flop system
[AD-D011165] 23 p3825 N84-34261

FLIR DETECTORS
Analysis of US Coast Guard HU-25A visual and radar detection performance
[AD-A133380] 06 p0784 N84-15138
Suitability of commercially available laboratory cryogenic refrigerators to support shipboard electro-optical systems in the 10 - 77 Kelvin region 06 p0821 N84-15355
Spatial image processing masks from frequency domain specifications
[AD-P003126] 16 p2534 N84-26267
Aircrew performance with simulated advanced radar and FLIR (Forward Looking Infrared) sensors in single- and two-place crew stations
[AD-P003269] 18 p2907 N84-28434
An optically implemented Kalman filter algorithm
[AD-A141126] 19 p3083 N84-29565
Evaluation of U.S. Coast Guard forward-looking airborne radars
[AD-A142417] 20 p3174 N84-30156
LANTIRN (Low Altitude Navigation and Targeting Infrared System for Night) - tommorrow's software development today
[AD-P003583] 21 p3339 N84-31188

FLOATING
Aids to navigation radar 1 principal findings: Performance in limited visibility of short range aids with passive reflectors
[AD-A137596] 11 p1604 N84-20507
Rebuttal to floating a satellite on microwaves
[AD-P003413] 19 p3016 N84-29117
FLOATING POINT ARITHMETIC
FPP1, A floating point package for PDP-8 computers
[AD-A134236] 07 p1054 N84-16826
Reasons for numerical errors in digital computers
[DFVLR-MITT-83-13] 07 p1056 N84-16839
Accuracy considerations when using some minicomputers for scientific and engineering problems
[AD-A134141] 07 p1061 N84-16878
The extension and application of global compaction techniques for horizontal scientific code
[AD-A135794] 09 p1368 N84-18934
Development of realistic algorithms for matrix computations on parallel computers
[AD-A136570] 09 p1376 N84-18990
Fixed point implementations of fast Kalman algorithms
[AD-A136188] 09 p1378 N84-19005
An introduction to the scientific computing language PASCAL-SC (PASCAL for Scientific Computation)
[AD-A139316] 14 p2205 N84-24235
Solving the Poisson equation on the FPS-164 (Floating Point System-164)
[AD-A139307] 14 p2211 N84-24278
Tutorial material on the real data types in Ada
[NFL-DITC-34/83] 17 p2751 N84-27458
Design study of floating point systolic VLSI chip
[AD-A141868] 19 p3013 N84-29102
FLOATS
State space method for optimal design of shock absorbers with floating boundaries
13 p1998 N84-22966
FLOCCULATING
Influence of deflocculant on the isoelectric point of refractory powders: Considerations on the action of deflocculant
[NASA-TM-77364] 07 p0969 N84-16277
FLOOD CONTROL
Riparian habitat on the Humboldt River, Deeth to Elko, Nevada
[E84-10116] 14 p2167 N84-23976
Water balance at a small watershed during the snowmelt season, 1 15 p2354 N84-25123
Water balance at a small watershed during the snowmelt season. 2: Runoff analysis 15 p2354 N84-25124
Preliminary guide to the onsite identification and delineation of the wetlands of Alaska
[AD-A142091] 19 p3042 N84-29299
FLOOD DAMAGE
The source of Mangalia Vales
15 p2426 N84-25573
Debris Flows, Landslides, and Floods in the San Francisco Bay Region, January 1982: Overview and summary of a conference
[PB84-194737] 20 p3243 N84-30590
Calculation of flood hydrographs using satellite-derived land-use information in the Dreisam watershed, S. W. Germany 23 p3771 N84-33904
FLOOD PLAINS
Radar remote sensing for crop classification and canopy condition assessment: Ground-data documentation
[E84-10020] 01 p0099 N84-10643
Major water conservation and reclamation projects in the Jianghan Plain and surroundings, Hubei Province, China — Landsat imagery 03 p0397 N84-12593
FLOOD PREDICTIONS
Comparison of land cover information from LANDSAT Multispectral Scanner (MSS) and airborne Thematic Mapper Simulator (TMS) data for hydrologic applications
20 p3216 N84-30431
Calculation of flood hydrographs using satellite-derived land-use information in the Dreisam watershed, S. W. Germany 23 p3771 N84-33904
FLOODS
Poststorm reconnaissance of Tropical Storm Chris
[AD-A131948] 03 p0411 N84-12688
Application of remote sensing to hydrological problems and floods
[E84-10046] 04 p0553 N84-13639
Evaluation of the FEMA (Federal Emergency Management Agency) model for estimating potential coastal flooding from hurricanes and its application to Lee County, Florida
[PB84-105832] 08 p1192 N84-17769
EPA Enviropod. A summary of the use of the Enviropod under a Memorandum of Understanding among EPA Region 8, the State of Utah, and the University of Utah Research Institute
[E84-10124] 14 p2168 N84-23983
Streamflow modelling
[AD-A141281] 18 p2866 N84-28198
Study on transport airplane unplanned water contact
[AD-A142092] 19 p2961 N84-28764
Debris Flows, Landslides, and Floods in the San Francisco Bay Region, January 1982: Overview and summary of a conference
[PB84-194737] 20 p3243 N84-30590
FLOORS
Vibration challenges in microelectronics manufacturing
10 p1506 N84-19870
Survey of NASA research on crash dynamics
[NASA-TP-2298] 12 p1826 N84-21901
MRCA run-in floors 14 p2093 N84-23557
Direct generation of seismic floor response spectra for classically and nonclassically damped structures
[PB84-191675] 21 p3445 N84-31860
FLOQUET THEOREM
Many-body processes in atomic and molecular physics
[DE84-007338] 15 p2406 N84-25441
Analysis of parametrically excited large vibration systems
[AD-A143283] 22 p3611 N84-32879
FLORA
U PLANTS (BOTANY)
FLORIDA
Statistics of instantaneous rainfall rates
[AD-A130089] 01 p0107 N84-10695
Use of thermal inertia determined by HCMM to predict nocturnal cold prone areas in Florida
[E84-10005] 02 p0235 N84-11546
Aircraft remote sensing of soil moisture and hydrologic parameters, Taylor Creek, Florida, and Little River, Georgia, 1979 data report
[E84-10010] 02 p0236 N84-11548
Identifying environmental features for land management decisions
[E84-10016] 03 p0392 N84-12556
Relationship of Benkelman beam deflection as measured by Florida method to those measured by AASHTO method T-256-77, P-13-79
[PB83-252973] 05 p0694 N84-14557
Analysis of data acquired by synthetic aperture radar over Dade County, Florida, and Acadia Parish, Louisiana
[E84-10067] 06 p0865 N84-15636
Chronology of KSC and KSC related events for 1981
[NASA-TM-85496] 07 p1084 N84-17047
Evaluation of the FEMA (Federal Emergency Management Agency) model for estimating potential coastal flooding from hurricanes and its application to Lee County, Florida
[PB84-105832] 08 p1192 N84-17769
Airborne measurements of launch vehicle effluent of STS-2 launch on November 12, 1981 at Cape Canaveral, Florida
[NASA-TP-2260] 09 p1342 N84-18764
Lightning data analysis
[AD-A138136] 12 p1860 N84-22118
Current velocity profiles in the Straits of Florida from the Pegagus current profiler: Subtropical Atlantic Climate Study 1982
[PB84-154335] 14 p2183 N84-24084
Interpretative analysis of surficial sediments as an aid in transport studies of dredged materials Cape Canaveral, Florida
[AD-A140759] 17 p2724 N84-27339
Evaluation of insecticides, repellents, and other approaches to the control of coastal stand flies, culicoides spp
[AD-A141132] 19 p3063 N84-29435
Variability of the convection field pattern in South Florida and its relationship to the synoptic flow
[PB84-177393] 20 p3249 N84-30623
Holocene sediments and evolution of the Indian River (Atlantic coast of Florida) 21 p3426 N84-31730
The neogene stratigraphy of the Central Florida Panhandle 21 p3441 N84-31833
The optical characteristics of lightning
24 p3927 N84-34858
FLOTATION
Surface chemistry in the flotation of minerals
06 p0817 N84-15323
Spectroscopic studies on surface reactions between minerals and reagents in flotation systems
06 p0817 N84-15324
FLOTATION SYSTEMS
U FLOATS
FLOW
Complex eigenvalues for the stability of Couette flow
[NASA-CR-172251] 04 p0531 N84-13492
Effects of a porous plug on orifice induced static pressure error 12 p1764 N84-21507
Classification of volcanoes of the Kane Patera Quadrangle of Io: Proportions of lava flows and pyroclastic flows 13 p2060 N84-23477
FLOW CHAMBERS
Design and construction of equipment items for geophysical fluid flow models
[NASA-CR-171017] 15 p2335 N84-25018
FLOW CHARACTERISTICS
NT BOUNDARY LAYER STABILITY
NT FLAME STABILITY
NT FLOW DISTRIBUTION
NT FLOW STABILITY
NT FLOW VELOCITY
NT MAGNETOHYDRODYNAMIC STABILITY
Stability of rotating disk flows
01 p0076 N84-10495
Deformation studies in workable superalloys
[AD-A131606] 02 p0194 N84-11260
On the generation and subsequent development of spiral vortex flow over a swept-back wing
03 p0322 N84-12105
Executive summary, aerothermal modeling program, phase 1
[NASA-CR-174602] 03 p0348 N84-12263
Aerothermal modeling program, phase 1
[NASA-CR-168243-VOL-1] 03 p0348 N84-12264
Aerothermal modeling program, phase 1
[NASA-CR-168243-VOL-2] 03 p0348 N84-12265
Analytical prediction of aerothermal environment in a wing-elevon cove — space shuttle orbiter
[NASA-TM-85711] 03 p0370 N84-12412
Initial decay of flow properties of planar, cylindrical and spherical blast waves
[UTIAS-TN-244] 03 p0371 N84-12416
On some flow characteristics of conventional and excited jets
[NASA-TM-83503] 04 p0594 N84-13922
The stratified turbulent mixing layer: Velocity and concentration measurements compared with a discrete vortex model 05 p0626 N84-14117
Flow mechanism and experimental investigation of a rotating stall in transonic compressors
[NASA-TM-77373] 06 p0782 N84-15122
An experimental investigation of the boundary layer structures in a partially-filled horizontal and rapidly-rotating cylinder 06 p0832 N84-15414
Rules governing the distribution of a gas jet in a liquid. Communication 2
[BLL-M-35437-(5628.4)] 08 p1154 N84-17513
Interaction of two-dimensional transverse jet with a supersonic mainstream
[NASA-CR-175446] 11 p1602 N84-20492
The present calculation method of adhering layers on aircraft wings
[AD-A137585] 11 p1602 N84-20496
Vortex generating flow passage design for increased film-cooling effectiveness and surface coverage — aircraft engine blade cooling
[NASA-TM-83617] 13 p1989 N84-22909
Bellows flow-induced vibrations
[NASA-TM-82556] 13 p1989 N84-22912
Effusion rate, length, and area relationships for some lava flows on Hawaii and Mount Etna with planetary implications 13 p2080 N84-23482
The 19 March 1982 eruption and lahar at Mount Saint Helens: Implications for Martian outflow channels?
13 p2083 N84-23495
Planetary geomorphology field studies: Washington and Alaska 13 p2084 N84-23501
An evaluation of factors affecting the flow quality in wind tunnels 14 p2096 N84-23577
Practical solutions to simulation difficulties in subscale wind tunnel tests 14 p2097 N84-23581
The effect of perforation on the aerodynamics of a spoiler
[BU-286] 15 p2255 N84-24545
A numerical study of the controlled flow tunnel for a high lift model
[NASA-CR-166572] 16 p2438 N84-25642
Application of a quasi-3D inviscid flow and boundary layer analysis to the hub-shroud contouring of a radial turbine
[NASA-TM-83669] 16 p2439 N84-25647
A probe for direct measurements of flow direction
[DFVLR-FB-83-27] 16 p2486 N84-25948
Ultrasonic and optical evaluation of surgical implant materials and devices. A durability study of pericardial bioprostheses
[NASA-CR-173437] 16 p2535 N84-26274
Development of a 2-dimensional turbulent jet under natural and excited conditions 17 p2666 N84-26997
Acoustic structure and propagation in highly porous, layered, fibrous materials 17 p2762 N84-27546
Recent modifications and calibration of the Langley low-turbulence pressure tunnel
[NASA-TP-2328] 18 p2785 N84-27675
Flow of foam through porous media
[DE84-012410] 20 p3186 N84-30246

Flow structures and their evolution in turbulent shear layer 21 p3486 N84-32091
Motion of vortex pair between parallel walls 21 p3486 N84-32092

FLOW CHARTS
Updated process flowsheets for manganese nodule processing
[PB83-226340] 01 p0047 N84-10303
A convex hull algorithm for planar simple polygons
[CSIR-TWISK-290] 07 p1059 N84-16864
On conditions for success of Sklansky's convex hull algorithm
[CSIR-TWISK-262] 07 p1059 N84-16866
TLINES: A computer program for circuits of transmission lines
[AD-A139596] 14 p2142 N84-23844
FLOCHT: A system of FORTRAN codes for computer drawn flow charts and diagrams
[DE84-007569] 15 p2393 N84-25362
An evaluation of the directed flow graph methodology
[NASA-CR-173593] 16 p2543 N84-26324
Program descriptions for Interactive Signal and Pattern Analysis and Recognition System (ISPARS)
[AD-A141575] 19 p3077 N84-29522
A graph theoretic technique for the generation of systolic implementations for shift-invariant flow graphs
[AD-A142251] 19 p3090 N84-29615

FLOW COEFFICIENTS
Fire induced flows through room openings - flow coefficients
[PB84-176759] 20 p3151 N84-30011

FLOW DIRECTION INDICATORS
Calibration of air-data systems and flow direction sensors. AGARD Flight Test Techniques Series, volume 1
[AGARD-AG-300-VOL-1] 06 p0848 N84-15530

FLOW DISTRIBUTION
Development of V/STOL methodology based on a higher order panel method
[NASA-CR-166491] 01 p0004 N84-10024
Explanation of the hypersonic longitudinal stability problem: Lessons learned 01 p0021 N84-10130
Space shuttle orbiter reaction control subsystem flight data anomalies 01 p0021 N84-10131
An experimental documentation of trailing-edge flows at high Reynolds number
[NASA-TM-84375] 01 p0076 N84-10498
Flow-field matrix solution for direct problem of flow along S1 relative stream surface employing non-orthogonal curvilinear coordinates and corresponding non-orthogonal velocity components
[AD-A131031] 01 p0079 N84-10512
Auxiliary heat-exchanger flow-distribution test
[DE83-012698] 01 p0082 N84-10535
The role of aeroelasticity in the preliminary design of helicopter rotors 02 p0172 N84-11130
The use of an adaptive grid in a solution of the Navier-Stokes equations for incompressible flow 02 p0173 N84-11139
Mach reflection flow fields associated with strong shocks
[AD-A131384] 02 p0175 N84-11148
Wind tunnel wall interference
[AD-A131396] 02 p0175 N84-11149
Particle impact erosion. Volume 3. User's manual chamber flowfield code (CFC) and Charring Material Ablation-Erosion (CMAE) code
[AD-A131007] 02 p0186 N84-11208
An analytical and experimental study of spectral analysis techniques for turbulence data obtained using laser velocimetry 02 p0217 N84-11424
A finite element analysis of the upper jet region of a fiber drawing flow field 02 p0218 N84-11425
Application of laser anemometry in turbine engine research
[NASA-TM-83513] 02 p0222 N84-11456
Statistical correlations of surface wind data: A comparison between a National Weather Service station and a nearby aerometric network
[PB83-237263] 02 p0257 N84-11680
Acta Aeronautica et Astronautica Sinica
[AD-A131828] 03 p0315 N84-12055
An experimental investigation of separated three dimensional flow on general aviation twin-engine aircraft 03 p0319 N84-12087
An experimental investigation of the vortex flow over delta and double-delta wings at low speed 03 p0322 N84-12106
Laser velocimetry study of compressibility effects on the flow field of a delta wing 03 p0322 N84-12108
Experimental investigation of forebody and wing leading-edge vortex interactions at high angles of attack 03 p0322 N84-12110
Some results from a programme of research into the structure of vortex flow fields around missile shapes 03 p0323 N84-12111
Separation and vortical-type flow around a prolate spheroid: Evaluation of relevant parameters 03 p0323 N84-12113
On the generation of vortical flow at hypersonic speeds over elliptical cones 03 p0323 N84-12114
Theoretical modelling of three-dimensional vortex flows in aerodynamics 03 p0324 N84-12116
Vortex flow simulations past wings using the Euler-equations 03 p0324 N84-12118
Combustion jet ignition 03 p0336 N84-12188
Laser velocimeter measurements and analysis in turbulent flows with combustion, part 2
[AD-A131882] 03 p0372 N84-12421
An analytical method to calculate the flow field about blunt bodies of revolution at incidence in supersonic free stream flow
[CSIR-NIAST-82/72] 04 p0479 N84-13156
A grid-embedding transonic flow analysis computer program for wing/nacelle configurations
[NASA-CR-166529] 04 p0480 N84-13158
A computer program for the calculation of three-dimensional transonic nacelle/inlet flowfields
[NASA-CR-166528] 04 p0480 N84-13159
Evaluation of non-intrusive flow measurement techniques for a re-entry flight experiment
[NASA-CR-172142] 04 p0489 N84-13212
Fire modeling research at Factory Mutual 04 p0513 N84-13370
Flame heights, flame radiation and flame spread 04 p0513 N84-13371
Computation of viscous flow in curved ducts and comparison with experimental data
[NASA-TM-83548] 04 p0532 N84-13494
Study of the contained air flow in a radial tire: Experimental
[DE84-000840] 04 p0545 N84-13591
Solution of Poisson equations for 3-dimensional grid generations --- computations of a flow field over a thin delta wing
[NASA-TM-85857] 04 p0588 N84-13886
The use of oil for in-flight flow visualization
[NASA-TM-84915] 05 p0627 N84-14122
Three-dimensional implicit lambda methods
[NASA-CR-172264] 05 p0627 N84-14123
Study of turbulent flow in a wing-fuselage type juncture 05 p0628 N84-14128
Flow visualization and interpretation of visualization data for deflected thrust V/STOL nozzles
[NASA-TM-83554] 05 p0631 N84-14147
Mechanisms of exciting pressure oscillations in ramjet engines
[AD-A133977] 05 p0631 N84-14150
A 2-dimensional numerical study of detonation propagation between munitions by means of shock initiation
[AD-A133680] 05 p0661 N84-14346
Computation of compressible flows using finite elements and optimization techniques 05 p0678 N84-14456
On the application of holographic interferometry to axisymmetric air flows 05 p0678 N84-14458
Computational methods for complex flowfields
[AD-A133970] 05 p0680 N84-14467
On a viscometric flow of a simple fluid
[AD-A132852] 05 p0681 N84-14476
Buckling of turbulent jets 05 p0683 N84-14488
TAS: A Transonic Aircraft/Store flow field prediction code
[NASA-CR-3721] 06 p0781 N84-15114
Three-dimensional effects on airfoils
[NASA-TM-77025] 06 p0781 N84-15118
Mach 0.6 to 3.0 flows over rectangular cavities
[AD-A134579] 06 p0782 N84-15121
Inlet flow field investigation. Part 1: Transonic flow field survey
[NASA-CR-172239] 06 p0782 N84-15123
An experimental study of airfoil-spoiler aerodynamics 06 p0784 N84-15133
Eddy detection within turbulent shear flows 06 p0837 N84-15453
Large scale motion in turbulent boundary layers 06 p0837 N84-15455
Acoustic shocks in a variable area duct containing near sonic flows
[NASA-CR-172274] 06 p0908 N84-15897
Phase averaged measurements of the coherent structure of a mach number 0.6 jet
[NASA-CR-175359] 07 p0945 N84-16134
Special opportunities in helicopter aerodynamics
[NASA-TM-84396] 07 p0946 N84-16138
Assessment of three-dimensional inviscid codes and loss calculations for turbine aerodynamic computations
[NASA-TM-83571] 07 p0947 N84-16142
Boundary-layer trip effectiveness and computations of aerodynamic heating for XM797 nose-tip configurations
[AD-A128036] 07 p0947 N84-16148
Numerical techniques for high incidence reentry aerodynamics
[AD-A134178] 07 p0948 N84-16149
Flow trajectories, mixing and entropy fluxes in a turbine cascade 07 p0955 N84-16193
Effects of a skewed inlet end wall boundary layer on the 3-D flow field in an annular turbine cascade 07 p0956 N84-16202
A general field theory for vortex structure and interaction
[AD-A134146] 07 p1033 N84-16705
Theoretical and experimental engine-inlet flow fields for fighter forebodies
[NASA-TP-2270] 08 p1097 N84-17132
Space Shuttle ice suppression system validation, volume 1
[NASA-CR-171740] 08 p1114 N84-17244
Laser diagnostic development and measurement and modeling of turbulent flowfields of jets and wakes. Part 1: Two-dimensional laser Doppler anemometer studies of isothermal flowfield in a ducted centerbody combustor
[AD-A134691] 08 p1158 N84-17542
Laser diagnostic development and measurement and modeling of turbulent flowfields of jets and wakes. Part 2: Numerical predictions of isothermal flowfields in a ducted centerbody combustor
[AD-A134692] 08 p1159 N84-17543
Laser diagnostic development and measurement and modeling of turbulent flowfields of jets and wakes. Part 3: The development of a 2-channel CW Time-Resolved Laser Raman Spectroscopy (TILaRS) system for measurements in gas flowfields
[AD-A134693] 08 p1159 N84-17544
Acoustic imaging of vapor bubbles through optically non-transparent media
[DE84-003961] 08 p1228 N84-18022
Flow behavior in the Wright Brothers Facility
[WBWT-TR-1187] 08 p1237 N84-18088
Adaptation of two-dimensional transonic analysis code, TSFOIL, for use in modeling adaptive wall test sections 08 p1238 N84-18089
Effect of suction on the wake structure of a three-dimensional turret
[AD-A135897] 09 p1252 N84-18174
Navier-Stokes computations of projectile base flow at transonic speeds with and without base injection
[AD-A135783] 09 p1252 N84-18176
Captive trajectory system test planning information for AEDC supersonic wind tunnel (A) and hypersonic wind tunnels (B) and (C)
[AD-A136439] 09 p1259 N84-18217
Numerical schemes used in the computer program for nozzle performance predications of liquid rocket engines
[NAL-TR-771] 09 p1274 N84-18316
Computations of transonic, chemically reacting flows in rocket nozzles
[NAL-TR-766] 09 p1274 N84-18318
Air-jet milling of grinding materials
[NASA-TM-77386] 09 p1291 N84-18430
Implicit numerical solution for a normal shock
[AD-A135855] 09 p1314 N84-18590
Impulsively-started flow about rectangular cylinders
[AD-A136029] 09 p1315 N84-18595
Experimental investigation of channel meandering
[REPT-5/1983] 09 p1336 N84-18724
A study of the aerodynamic interference effects during aerial refueling
[AD-A136895] 10 p1420 N84-19290
Investigation of effects contributing to dynamic stall using a momentum-integral method
[AD-A136897] 10 p1421 N84-19291
Turbulence generated pressure fluctuations in a class of interior flows 10 p1423 N84-19306
Turbulence characteristics of swirling flowfields
[NASA-CR-175392] 10 p1490 N84-19744
Turbulent transport models for scramjet flowfields
[NASA-CR-172284] 10 p1491 N84-19747
Effects of multiple cylinders on the formation of Von Karman vortex streets
[AD-A136930] 10 p1492 N84-19758
Analytical studies of turbulent flow fields
[AD-A137008] 10 p1493 N84-19761
On bifurcation phenomena in conical flow patterns
[VTH-LR-378] 10 p1495 N84-19779
The effects of high frequency positive pressure ventilation on hypoxic pulmonary vasoconstriction 10 p1549 N84-20151
Numerical solution of three-dimensional unsteady transonic flow over wings including inviscid/viscous interactions
[NASA-CR-166561] 11 p1600 N84-20478
An investigation of turbulence mechanisms in V/STOL upwash flow fields
[AD-A137775] 11 p1603 N84-20498
Numerical modeling of turbulent flow 11 p1610 N84-20536

Grid flexibility and patching techniques
11 p1610 N84-20540
Velocity visualization in gaseous flows
11 p1610 N84-20543
Turbulence characteristics of an axisymmetric reacting flow 11 p1611 N84-20548
Direct numerical simulation of reacting flows
11 p1611 N84-20549
Characteristics of inhomogeneous jets in confined swirling air flows 11 p1612 N84-20550
Random vortex method for combusting flows
11 p1613 N84-20558
Aerodynamic features of flames in premixed gases
11 p1613 N84-20559
Vortex generating flow passage design for increased film cooling effectiveness
[NASA-CASE-LEW-14039-1] 11 p1651 N84-20782
A study of the coherent structures in the viscous wall region of a turbulent flow
[AD-A137875] 11 p1652 N84-20788
Computation of viscous flow about advanced projectiles
[AD-A137935] 11 p1653 N84-20790
Numerical solution for a spinning, nutating, fluid-filled cylinder
[DE84-005878] 11 p1654 N84-20799
Test-engine and inlet performance of an aircraft used for investigating flight effects on fan noise
[NASA-TP-2254] 11 p1729 N84-21277
Application of laser velocimetry to unsteady flows in large scale high speed tunnels
[NASA-CR-166575] 12 p1765 N84-21511
Design of single component airfoils using an inverse boundary element method
[REPT-83-A2-SER-A] 12 p1765 N84-21512
Inlet flowfield investigation. Part 2: Computation of the flow about a supercruise forebody at supersonic speeds
[NASA-CR-172315] 12 p1766 N84-21516
Turbulence structures associated with the bursting event
[NASA-TM-85944] 12 p1815 N84-21831
Generation of mesoscale hydrodynamic phenomena by the Grappler and Whiting Seamounts, southeast of Puerto Rico
[PB84-148196] 12 p1863 N84-22140
Surface grid generation for wing-fuselage bodies
12 p1870 N84-22186
Computer graphics in aerodynamic analysis
12 p1873 N84-22206
Analysis of inviscid and viscous flows in cascades with an explicit multiple-grid algorithm
[NASA-TM-83836] 13 p1925 N84-22527
Experimental investigation of the internal flow field in STOL engine inlets 13 p1927 N84-22544
The 14th JANNAF Plume Technology Meeting, volume 1
[AD-A139654] 13 p1941 N84-22619
Application of the CONTAM 3 computer model to the prediction of heating, forces, and contamination on a communications satellite 13 p1941 N84-22621
CONTAM 3 plus improved CONTAM 3 usability
13 p1941 N84-22622
Exhaust plume induced fluctuations in the index of refraction at optical wavelengths
13 p1941 N84-22624
Multiple point source model for three dimensional plume flow fields 13 p1941 N84-22625
Operational update to the RCS flow field of the space shuttle orbiter 13 p1942 N84-22626
Aircraft exhaust plume signature predictions for non-axisymmetric multiple engine installations
13 p1942 N84-22627
On the oscillatory flowfield in solid rocket motors
13 p1945 N84-22645
Effect of oscillations upon velocity distributions in simulated solid propellant flow environments
13 p1945 N84-22646
Numerical analysis of an unsteady shock in an inlet diffuser 13 p1951 N84-22686
Heterogeneous diffusion flame stabilization: Constant density results 13 p1952 N84-22689
Detailed flow measurements in fuel-rich, particle-laden plumes 13 p1952 N84-22690
Hypersonic flow around flat body in case of intense radiative heat exchange 13 p1972 N84-22795
Theoretical investigation of three-dimensional shock wave-turbulent boundary layer interactions, part 2
[AD-A138722] 13 p1990 N84-22916
Development of holographic interferometry for welding arc analysis
[DE84-005454] 13 p1994 N84-22940
A short note on recent advances in the adaptive wall technique for 3D-model tests at the TU-Berlin
14 p2095 N84-23571
Disturbances from ventilated tunnel walls in aerofoil testing 14 p2096 N84-23573
Half-model testing in the NLR high speed wind tunnel HST: Its technique and application
14 p2098 N84-23588
Transonic nozzle-afterbody flow field measurements using a laser Doppler velocimeter
14 p2098 N84-23592
Vortical flow exploration methods developed for the F1 wind tunnel 14 p2099 N84-23596
Numerical aerodynamic analysis of a free falling autorotating plate
[AD-A138900] 14 p2102 N84-23612
V/STOL wind-tunnel testing
[NASA-TM-85936] 15 p2253 N84-24528
The impingement of an underexpanded air jet on square section beams
[BU-291] 15 p2256 N84-24548
Optical measurements of droplet size distributions: Special considerations in the parameter definition for fuel atomizers 15 p2290 N84-24745
Development of temperature-, velocity- and concentration-profiles in a curved combustor
15 p2292 N84-24757
A tensor constitutive equation for turbulent flow
15 p2314 N84-24888
Flow and free surface of a non-Newtonian fluid between concentric cylinders maintained at unequal temperatures
15 p2315 N84-24893
An experimental and analytical study of spray flow fields formed by liquid/gas coaxial injector elements
[NAL-TR-745] 15 p2331 N84-24997
The boundary layer on compressor cascade blades
[NASA-CR-173514] 15 p2332 N84-25001
Holographic aids for internal combustion engine flow studies
[NASA-TM-83661] 15 p2335 N84-25017
Magnetohydrodynamic power generation
[NASA-TP-2331] 15 p2409 N84-25458
Special Course on V/STOL Aerodynamics
[AGARD-R-710] 16 p2436 N84-25625
Jet flowfields 16 p2437 N84-25631
Hypersonic test facilities 16 p2441 N84-25661
General introduction. Part 1: The waverider. Origins, evolution and applications. Part 2: Waverider aero-and aerothermodynamics. Part 3: Configuration design. Reentry gliders. Part 4: Configuration design. Cruise/ramjet vehicles 16 p2442 N84-25667
On modeling dilution jet flowfields
[NASA-TM-83708] 16 p2450 N84-25713
A study of the action of an airgun
[BU-296] 16 p2454 N84-25734
Canonical solutions for unsteady flow fields
[NASA-TM-85612] 16 p2486 N84-25947
Measurement of the flow field behind harmonically oscillating gust generators in the model subsonic wind tunnel (MUK)
[ESA-TT-806] 16 p2487 N84-25953
Structure of rotating stall cells. Part 1: Absolute motion 16 p2489 N84-25967
Structure of rotating stall cells. Part 2: Relative motion 16 p2490 N84-25970
Finite elements in computational fluid dynamics
16 p2491 N84-25982
Modification of the eta-invariant code for application of a modular grid network
[AD-A135817] 16 p2547 N84-26347
Control of separated flowfields using forced unsteadiness 17 p2598 N84-26654
Calculation of transonic potential flow past wing-tail-fuselage configurations using the multigrid method 17 p2599 N84-26657
Spatial derivatives of flow quantities behind curved shocks of all strengths
[NASA-TM-85782] 17 p2600 N84-26665
Flow pattern in an indoor rocket test stand during static firing of solid propellant rocket motors
[PML-1983-40] 17 p2614 N84-26731
Studies of heat transfer in complex internal flows
[AD-A140804] 17 p2668 N84-27014
Some theoretical results on Mach reflection of moderately strong shock waves
[MPIS-14/1983] 17 p2668 N84-27016
Influence of velocity shear on character of flow of incompressible stratified fluid around obstacle
17 p2707 N84-27237
A new method for determining acoustic-liner admittance in a rectangular duct with grazing flow from experimental data
[NASA-TP-2310] 17 p2782 N84-27543
Energy flow continuity in solar active regions
17 p2779 N84-27643
Computation of imaginary-side pressure distributions over the flexible walls of the test section insert for the 0.3-M transonic cryogenic tunnel
[NASA-CR-172363] 18 p2785 N84-27678
Numerical optimization design of advanced transonic wing configurations
[NASA-TM-85950] 18 p2792 N84-27718
Sensitivity analysis of predicted reacting flow characteristics in solid fuel ramjet combustors
[AD-A141279] 18 p2796 N84-27740
A mixed explicit-implicit antidiffusive method of Navier-Stokes equations for supersonic and hypersonic separated flows
[AD-A141010] 18 p2837 N84-28005
Experimental studies of flow separation of three airfoils at low speeds
[NASA-CR-3530] 19 p2956 N84-28736
A practical adaptive-grid method for complex fluid-flow problems
[NASA-TM-85989] 19 p2958 N84-28745
Three-dimensional transonic potential flow about complex 3-dimensional configurations
[NASA-CR-3814] 19 p2958 N84-28749
Transonic interference flow-field analysis for wing-body-pylon-store
[AD-A141811] 19 p2959 N84-28754
Stator blade row geometry modification influence on two-stage, axial-flow compressor aerodynamic performance
[AD-A141793] 19 p2966 N84-28797
A diagnostic technique for improving combustor performance 19 p2967 N84-28800
User's guide to the NOZL3D and NOZLIC computer programs
[NASA-CR-159173] 19 p3020 N84-29150
Acta mechanica sinica (Selected articles)
[AD-A142128] 19 p3024 N84-29180
The stability of atmospheric fields induced by localized topography and heat sources
[AD-A141357] 19 p3058 N84-29400
Application of the direct simulation Monte Carlo method to mass spectrometer flow
[AD-A142326] 19 p3094 N84-29647
High-speed noise of helicopter rotors
19 p3097 N84-29673
Air Force Academy Aeronautics Digest
[AD-A142399] 20 p3125 N84-29849
Iron nitrate and MON-3 nitrogen tetroxide
20 p3136 N84-29909
High pressure LOX/natural gas staged combustion technology 20 p3138 N84-29927
Calculation of the 3-D viscous flow at the endwall leading edge region of an axial annular turbine cascade
[NASA-CR-168275] 21 p3325 N84-31095
Acoustic excitation: A promising new means of controlling shear layers
[NASA-TM-83772] 21 p3325 N84-31096
Computational hierarchy for the analysis of combustion phenomena in ramjet environments
21 p3354 N84-31277
A space-marching method for the Navier-Stokes equations for internal flows 21 p3397 N84-31550
Calculation of boundary layers of oscillating airfoils
[NASA-TM-85943] 21 p3396 N84-31554
Nonstationary oblique-shock-wave reflections in air
[UTIAS-270] 21 p3399 N84-31562
Recent eolian activity and paleoclimate fluctuations in the Ferris Lost Soldier Area, South-Central Wyoming
21 p3441 N84-31830
Flow structures and their evolution in turbulent shear layer 21 p3486 N84-32091
Summary of recent NASA propeller research
[NASA-TM-83733] 22 p3529 N84-32344
Improvements in the accuracy and stability of algorithms for the small-disturbance and full-potential equations applied to transonic flows
[NASA-TM-85970] 22 p3530 N84-32350
Fuselage and nozzle pressure distributions of a 1/12-scale F-15 propulsion model at transonic speeds. Effect of fuselage modifications and nozzle variables
[NASA-TP-2333] 22 p3531 N84-32354
Investigation of the three-dimensional flow field within a transonic fan rotor: Experiment and analysis
[NASA-TM-83739] 22 p3531 N84-32357
A study of leeside flow field heat transfer on Shuttle Orbiter configuration
[NASA-CR-172362] 22 p3540 N84-32410
Turbulence characteristics of swirling flowfields
23 p3687 N84-33371
A study of the cross flow fan
23 p3688 N84-33372
Parabolized Navier-Stokes solutions for hypersonicflow fields 23 p3688 N84-33373
TRANSEP: A program for high lift separated flow about airfoils
[NASA-CR-3376] 23 p3690 N84-33386
A study of the burning of a solid fuel surface in partial enclosures 23 p3712 N84-33532

Film cooling on a convex wall: Heat transfer and hydrodynamic measurements for full and partial coverage 23 p3745 N84-33741

Laminar flow control - viscous simulation 23 p3749 N84-33764

Assessment of plasma transport and convection at high latitudes 23 p3837 N84-34343

Laser velocimeter measurements of dynamic stall — conducted in the Ames two foot wind tunnel [NASA-CR-166603] 24 p3852 N84-34429

Flow-field measurements on an airfoil with an oscillating trailing-edge using holographic interferometry [NASA-CR-166604] 24 p3852 N84-34430

Analysis of combustion oscillations in heterogeneous systems [AD-A144436] 24 p3880 N84-34583

A study of pollutant dispersal in a 2-dimensional field including gravity effects [AD-A144295] 24 p3900 N84-34699

The calculation of the axisymmetrical subsonic viscous flow field of annular diffusers with prewhirling current at the inlets [AD-A144534] 24 p3901 N84-34702

Morse theory for flows in presence of a symmetry group [AD-A144661] 24 p3952 N84-35026

FLOW EQUATIONS

NT HELMHOLTZ VORTICITY EQUATION

NT VON KARMAN EQUATION

NT VORTICITY EQUATIONS

Analysis of finite difference discretizations of Navier-Stokes problems on mapped domains 02 p0283 N84-11858

Calculation of unsteady flow in tubes of combustion engines with special regard to multiple branching [REPT-82.8] 03 p0370 N84-12410

Similarity analysis of the flow characteristics in diffusion flames 04 p0513 N84-13367

Solution of groundwater-flow equations using an orthogonal finite-element scheme [DE84-000690] 04 p0554 N84-13648

Eulerian and Lagranglan predictions of particulate two phase flows [KU-SFB-80/T/222] 05 p0682 N84-14481

Prediction of floating solid velocities in unsteady partially filled pipe flow [PB83-259598] 05 p0682 N84-14484

Introduction to computational fluid dynamics — conferences [VKI-LS-1983-01] 06 p0834 N84-15429

Equations of fluid flow, finite difference approximations and basic mathematical properties of each 06 p0834 N84-15430

An introduction to numerical methods suitable for the Euler equations 06 p0835 N84-15431

A finite difference technique for laminar and turbulent compressible boundary layers 06 p0835 N84-15433

Iterative solution of the finite difference potential equations for subsonic and transonic flows 06 p0835 N84-15436

Finite element methods for potential flows 06 p0835 N84-15437

Analytical solutions for the flow field induced by a spherical flame expanding at constant velocity 06 p0836 N84-15445

Introduction to turbulent shear flows 06 p0837 N84-15449

Computational Fluid Dynamics, volume 1 — conferences [VKI-LS-1983-04-VOL-1] 06 p0838 N84-15461

Computational Fluid Dynamics, volume 2 — conferences [VKI-LS-1983-04-VOL-2] 06 p0839 N84-15467

Numerical computation of transonic flow governed by the full-potential equation 06 p0839 N84-15469

Turbulence modeling in liquid metal free convection — in reactor cooling systems 06 p0842 N84-15490

A thermodynamically consistent constitutive model for inelastic flow of materials 06 p0857 N84-15581

A numerical investigation of the multiple vortex phenomenon: Vortex number and structure as a function of swirl ratio 06 p0931 N84-16049

The movement of water droplets in clouds around the nose of an atmospheric research aircraft [NASA-TM-77358] 07 p1001 N84-16491

Experimental investigation of turbulent flow in the inlet region of an eccentric annulus [KFK-3573] 07 p1004 N84-16511

Computation of strongly swirling axi-symmetric free jets [KU-SFB-80/T/216] 07 p1004 N84-16512

Wave propagation in a thin walled liquid filled initially stressed tube — blood flow [MEAH-24] 07 p1005 N84-16519

Approximation dispersion equations for thin walled liquid filled tubes — blood flow [MEAH-25] 07 p1005 N84-16520

The principle of virtual work and a principle of virtual heat as a basis for nonlinear finite element analysis [WTHD-157] 07 p1005 N84-16522

Three-dimensional unsteady Euler equation solutions using flux vector splitting [NASA-CR-173254] 07 p1058 N84-16857

Automatic adaptive grid refinement for the Euler equations [NASA-CR-173161] 08 p1222 N84-17977

Finite difference methods for the incompressible Navier-Stokes equations: A survey [AD-A136353] 09 p1374 N84-18969

Model equations describing unsteady fluid motion [DFVLR-MITT-83-17] 10 p1495 N84-19775

Newton like: Minimal residual methods applied to transonic flow calculations [NASA-CR-172305] 10 p1568 N84-20275

Entropy condition satisfying approximations for the full potential equations of transonic flow [NASA-TM-85751] 11 p1601 N84-20485

A solution to the problem of the flow around a circular cylinder between two parallel plates with the Monte Carlo method [PREPRINT-791] 12 p1817 N84-21848

Application of augmented-Lagrangian methods in meteorology: Comparison of different conjugate-gradient codes for large-scale minimization 12 p1854 N84-22076

Hypersonic flow around flat body in case of intense radiative heat exchange 13 p1972 N84-22795

Aerodynamic effect of combustor inlet-air pressure on fuel jet atomization [NASA-TM-83611] 13 p1989 N84-22910

Artificial mass concept and transonic viscous flow equation [AD-P002946] 14 p2196 N84-24186

Canonical solutions for unsteady flow fields [NASA-TM-85812] 16 p2486 N84-25947

Numerical aspects of unsteady flow calculations 16 p2489 N84-25968

Solution of the compressible Navier-Stokes equations: Applications to complex turbulent flows 16 p2492 N84-25991

A quasi-simultaneous calculation method for strongly interacting viscous flow around an infinite swept wing [NLR-MP-83001-U] 17 p2601 N84-26672

Mixed boundary-value problems pertaining to profile of supersonic nozzles and channels 17 p2645 N84-26919

Super upwinding elements of doubt and discrete differences of opinion on the numerical muddling of the incomprehensible defective confusion equation 19 p3025 N84-29188

Boundary layer solution for the Rayleigh-Benard convection problem [MPIS-19/1983] 19 p3026 N84-29189

An efficient approximate factorization implicit scheme for the equations of gasdynamics [NASA-TM-85957] 19 p3082 N84-29556

Optimization of a numerical method to calculate elliptic flows [DFVLR-FB-84-16] 20 p3167 N84-30252

Semi-implicit method for three-dimensional compressible MHD simulation [IPP-6/234] 20 p3301 N84-30961

A space-marching method for the Navier-Stokes equations for internal flows 21 p3397 N84-31550

Flowing effects in gas lasers [AD-A141409] 21 p3409 N84-31620

On numerical methods in non-Newtonian flows [DE84-701276] 24 p3899 N84-34691

The density distribution of galactic cosmic rays allowing for the generalized tensor of anisotropic diffusion and for the real distribution of solar activity 24 p3994 N84-35275

FLOW FIELDS

U FLOW DISTRIBUTION

FLOW GEOMETRY

Magnetohydrodynamic modeling of coronal structure and expansion 03 p0468 N84-13081

Reduction of the shock wave intensity by modifying the transonic blade trailing edge [NASA-TM-77029] 09 p1251 N84-18169

Results of the test on ONERA calibration model M5 in NAL 2m x 2m Transonic Wind Tunnel [NAL-TR-774T] 09 p1259 N84-18215

Adjoint sensitivity theory for steady-state ground-water flow [DE84-003335] 09 p1337 N84-18732

Experimental investigations of rivulet meanders — flow instability [MPIS-5/1983] 13 p2006 N84-23015

Conical flows with leading edge vortices 15 p2333 N84-25013

On vector calculation of mechanic flow computer programs 18 p2549 N84-26358

User's guide to the NOZL3D and NOZLIC computer programs [NASA-CR-159173] 19 p3020 N84-29150

Numerical analysis of the burst in the turbulent boundary layer, based on the three-dimensional ortex model 20 p3168 N84-30116

Elliptic grid generation for three-dimensional geometries 20 p3168 N84-30117

FLOW GRAPHS

An algorithm for parsing flow graphs [AD-A142440] 20 p3273 N84-30773

FLOW MEASUREMENT

Measurement of two-phase flow velocity using a laser Doppler anemometer [DE83-013522] 01 p0082 N84-10531

Value of flow calibration for decision making in infiltration/inflow studies [PB83-259739] 05 p0682 N84-14483

Flow mechanism and experimental investigation of a rotating stall in transonic compressors [NASA-TM-77373] 06 p0782 N84-15122

Experimental techniques for free edges of turbulent flows 06 p0837 N84-15450

Measurements in steam turbines 06 p0840 N84-15476

Calibration of air-data systems and flow direction sensors. AGARD Flight Test Techniques Series, volume 1 [AGARD-AG-300-VOL-1] 06 p0848 N84-15530

End-wall boundary layer measurements in a two-stage fan 07 p0957 N84-16208

Flow measurements in the stator row of a single-stage transonic axial-flow compressor with controlled diffusion stator blades 07 p0958 N84-16209

Laser velocimetry in the low-speed wind tunnels at Ames Research Center [NASA-TM-85885] 07 p1007 N84-16526

Flow technical problems with transitions between partial and complete filling and with flow measurement in channel sections. — sewage flow [TUM-SFB-81] 08 p1160 N84-17552

Leakage flow-induced vibrations of reactor components 08 p1168 N84-17611

Universal single level implicit algorithm for gasdynamics [NASA-CR-166531] 08 p1216 N84-17936

Experimental investigation of channel meandering [REPT-5/1983] 09 p1336 N84-18724

Experimental determination of the relative flow at the tip of a transonic axial compressor rotor [AD-A137483] 10 p1420 N84-19268

Evaluation of a flow direction probe and a pitot-static probe on the F-14 airplane at high angles of attack and sideslip [NASA-TM-84911] 11 p1606 N84-20514

Random vortex method for combusting flows 11 p1613 N84-20558

Exploration of arterial function using Doppler flow determination. Application to aeronautical and space medicine 11 p1700 N84-21091

Application of laser velocimetry to unsteady flows in large scale high speed tunnels [NASA-CR-166575] 12 p1765 N84-21511

Flow measurement facilities at NEL on 1 August 1983 [NEL-686] 13 p1991 N84-22924

A circulation meter for the measurement of discrete vortices [BU-300] 15 p2256 N84-24551

Utilization of laser diagnostics to evaluate combustor models 15 p2294 N84-24787

Spinning disk calibration method and apparatus for laser Doppler velocimeter [NASA-CASE-ARC-11510-1] 15 p2335 N84-25015

Measurement of unsaturated flow below the root zone at an arid site [DE84-006575] 15 p2359 N84-25158

Automatically equalizing fluid manometer combined with a computer [ESA-TT-811] 16 p2496 N84-26015

Detailed flow measurements in casing boundary layer of 429-meter-per-second-tip-speed two-stage fan [NASA-TP-2052] 19 p2966 N84-28795

Electrical monitoring of polymerization reactions with the charge-flow transistor [AD-A142267] 19 p3000 N84-29010

The structure of evaporating and combusting sprays: Measurements and predictions [NASA-CR-173778] 19 p3021 N84-29155

Free jet feasibility study of a thermal acoustic shield concept for AST/VCE application: Single stream nozzles [NASA-CR-3758] 19 p3096 N84-29661

Effect of turbulent boundary layer flow on measurement of acoustic pressure and intensity, revised
[AD-A142473] 20 p3184 N84-30229
Comparison of the full potential and Euler formulations for computing transonic airfoil flows
[NASA-TM-85983] 21 p3324 N84-31094
Measure of mass flow rate in gas-solid two phase fluids; application to pneumatic transport
21 p3403 N84-31590
Expendable current profiler (XCP, Mod 7)
[AD-A142936] 21 p3451 N84-31897
Sidewall boundary layer corrections in subsonic, 2-dimensional airfoil-hydrofoil testing
[AD-A144002] 23 p3691 N84-33391
Laminar convection with buoyancy in tube flows with a surrounding liquid medium 23 p3745 N84-33740
A fast accurate algorithm for solving the steady 3-dimensional equations for inviscid rotational flow
23 p3746 N84-33745
Automated helium gas metering system
[DE84-015083] 23 p3751 N84-33779

FLOW PATTERNS
U FLOW DISTRIBUTION

FLOW RATE
U FLOW VELOCITY

FLOW REGULATORS
NT FUEL FLOW REGULATORS
Development of an electrically controllable gas flow valve for use in patient ventilators
[BMFT-FB-T-84-129] 23 p3757 N84-33819

FLOW RESISTANCE
NT AERODYNAMIC DRAG
NT SUPERSONIC DRAG
NT VISCOUS DRAG
On smoke control experiments
04 p0514 N84-13379

FLOW SEPARATION
U BOUNDARY LAYER SEPARATION
U SEPARATED FLOW

FLOW STABILITY
NT BOUNDARY LAYER STABILITY
NT FLAME STABILITY
NT MAGNETOHYDRODYNAMIC STABILITY
Stability of rotating disk flows
01 p0076 N84-10495
Numerical procedure for an inviscid stability analysis of an axisymmetric jet
[PB83-224071] 01 p0083 N84-10537
Granular jumps down an inclined plane
[AD-A130501] 01 p0132 N84-10863
Two-fluid gravitational instabilities in a galactic disk
02 p0305 N84-11998
Vortex stability and breakdown
03 p0325 N84-12122
The break-up mechanism of a streamwise directed vortex 03 p0325 N84-12123
Vortex breakdown: A two-stage transition
03 p0325 N84-12124
Experimentation with turbulent flows experiencing the effects of an adverse pressure gradient
03 p0325 N84-12127
Waves on vortex cores and their relation to vortex breakdown 03 p0326 N84-12128
Flame acceleration mechanisms under conditions of partial confinement
[PB83-244012] 03 p0358 N84-12328
Multiple steady states of buoyancy induced flow in cold water and their stability 04 p0530 N84-13487
Complex eigenvalues for the stability of Couette flow
[NASA-CR-172251] 04 p0531 N84-13492
Two-dimensional accretion disk structure and stability
04 p0620 N84-14090
Laminarization of a boundary layer in a supersonic nozzle by cooling of the surface
[NASA-TM-77341] 05 p0626 N84-14119
Study of turbulent flow in a wing-fuselage type juncture 05 p0628 N84-14128
Effect of hydrodynamic flow on the morphology of electrodeposited zinc
[DE84-001816] 05 p0651 N84-14281
Bifurcations in nonlinear problems of hydrodynamic instability of plane parallel shear flows
06 p0831 N84-15411
Remarks on the stability of viscometric flow
[AD-A134571] 07 p1002 N84-16500
Understanding transition to turbulence in shear layers
[AD-A134796] 08 p1159 N84-17548
Baroclinic inertial instability in the non-static equilibrium atmosphere
[BLL-TRANS-1568-(9022.552)]
08 p1189 N84-17751
Virtual cathode oscillations
[AD-A135120] 08 p1228 N84-18027
Turbulence generated pressure fluctuations in a class of interior flows 10 p1423 N84-19306
The present calculation method of adhering layers on aircraft wings
[AD-A137585] 11 p1602 N84-20496
Basic experimental study of the coupling between flow instabilities and incident sound
[NASA-CR-3789] 11 p1728 N84-21275
Electrohydrodynamic and flow instabilities in nematic polymers
[AD-A137812] 11 p1744 N84-21380
Two-fluid couette flow between concentric cylinders
[AD-A137969] 12 p1815 N84-21834
Rocket motor aeroacoustics 13 p1944 N84-22642
Fluid-dynamically coupled solid propellant combustion instability - cold flow simulation
13 p1945 N84-22644
Three-dimensional vorticity procedure interactions in combustion instability analysis of solid propellant rocket motors 13 p1945 N84-22647
Generation of vehicle wobbling by the unsteady flow field in a spinning solid propellant rocket motor
13 p1945 N84-22648
Direct measurement of high frequency solid propellant response functions 13 p1945 N84-22649
A novel X-ray backlighting method for Rayleigh-Taylor instability measurements on ablatively driven targets
[AD-A138644] 13 p1993 N84-22937
Experimental investigations of rivulet meanders — flow instability
[MPIS-5/1983] 13 p2006 N84-23015
Hydrodynamic interactions between particles in low-Reynolds-number flow: A modular approach
[AD-A139269] 14 p2146 N84-23859
Flow between rotating disks. Part 2: Stability
15 p2315 N84-24891
On the structure of rotational instabilities in non-Newtonian fluids 15 p2315 N84-24892
Stability of flow processes for dissipative solids with internal imperfections
[ISSN-0208-5658] 15 p2331 N84-24998
Computational Fluid Dynamics, volume 2
[VKI-LS-1984-04-VOL-2] 16 p2492 N84-25986
Recent developments in multigrid methods for the steady Euler equations 16 p2492 N84-25988
Implicit time dependent methods for the solution of the Euler equations 16 p2492 N84-25989
Implicit time dependent methods for the solution of the Euler equations. Part 2: Application to transonic flows
16 p2492 N84-25990
Solution of the compressible Navier-Stokes equations: Applications to complex turbulent flows
16 p2492 N84-25991
Observation of Rayleigh-Taylor-Like structures in a laser-accelerated foil
[AD-A140294] 16 p2556 N84-26399
Supercritical regimes in Rossby wave propagation
17 p2700 N84-27197
Stabilized luminous arcs (rotating arcs) in nitrogen and carbon dioxide at pressures of one to forty atmospheres
[NASA-TM-77506] 19 p3012 N84-29095
The Goertler vortex instability mechanism in three-dimensional boundary layers
[NASA-CR-172370] 19 p3021 N84-29158
The stability of atmospheric fields induced by localized topography and heat sources
[AD-A141357] 19 p3058 N84-29400
Dual mode propulsion system engine testing for INTELSAT 20 p3136 N84-29913
Stability criterion for moist compressible atmosphere and energy conditions for development of convective cloud cover: Numerical experiment 20 p3224 N84-30489
Hopf bifurcation in two-component flow
[AD-A142844] 21 p3400 N84-31568
On the stability of boundary-induced flows and modons
[PREPRINT-372] 21 p3403 N84-31591
Transition from laminar to turbulent flow under action of acoustic vibrations 21 p3480 N84-32056
Special Course on Stability and Transition of Laminar Flow
[AGARD-R-709] 23 p3748 N84-33757
Nonlinear effects in hydrodynamic stability
23 p3748 N84-33762
Secondary instability of shear flows
23 p3748 N84-33763
The effects of curvature on turbulent mixing layers
[AD-A144250] 24 p3900 N84-34697

FLOW THEORY
NT MIXING LENGTH FLOW THEORY
Use of the one-dimensional theory of the filament of flow for the interpretation and synthesis of mufflers in exhaust pipes of internal combustion engines
[REPT-81.4] 03 p0383 N84-12494
Flow mechanism and experimental investigation of a rotating stall in transonic compressors
[NASA-TM-77373] 06 p0782 N84-15122
Introduction to computational fluid dynamics — conferences
[VKI-LS-1983-01] 06 p0834 N84-15429
Equations of fluid flow, finite difference approximations and basic mathematical properties of each
06 p0834 N84-15430
An introduction to numerical methods suitable for the Euler equations 06 p0835 N84-15431
Introduction to turbulent shear flows
06 p0837 N84-15449
Turbine aerodynamic design using through-flow theory. Meridional through-flow calculation
06 p0840 N84-15474
Applications of through-flow theory — steam turbines
06 p0840 N84-15477
A review of current research activity on the aerodynamics of axial flow turbines 06 p0841 N84-15480
Vibration-induced flux variation in the space between two concentric tubes
[BLL-CE-TRANS-7949-(9022.09)]
06 p0857 N84-15583
Morse type index theory for flows and periodic solutions for Hamiltonian equations
[AD-A134431] 07 p1061 N84-16883
Free molecular aerodynamics for satellite application
[ESA-TT-776] 16 p2456 N84-25749
Questions that need to be answered
[AD-P002127] 16 p2525 N84-26213
Conference on Vector Calculators, Winter Quarter 1983 16 p2548 N84-26355
Numerical simulation of shock/turbulent boundary layer interactions over 2-D compression corners
17 p2666 N84-27000
Introduction to the theory of fluid and magnetofluid turbulence
[IPPJ-670] 17 p2766 N84-27565
PAN AIR: A computer program for predicting subsonic or supersonic linear potential flows about arbitrary configurations using a higher order panel method. Volume 1: Theory document (version 1.1)
[NASA-CR-3251] 18 p2788 N84-27697
An improved version of the k-W model of turbulence
[CFD/83/1] 18 p2837 N84-28011
A practical adaptive-grid method for complex fluid-flow problems
[NASA-TM-85989] 19 p2958 N84-28745
Secondary flow theory in straight and annular cascades 19 p3022 N84-29163
Secondary loss prediction methods — turbines
19 p3022 N84-29164
Annulus endwall boundary layer theory — turbomachinery 19 p3023 N84-29167
Transition bifurcation branches in non-linear water waves
[CAR-8418] 21 p3398 N84-31556
A theoretical study of resin flows for thermosetting materials during prepreg processing
[NASA-CR-172442] 23 p3724 N84-33596
Research on topics in perturbation methods, transonic flow theory, numerical analysis and adaptive grid generation
[AD-A143641] 23 p3833 N84-34315

FLOW VELOCITY
NT SOLAR WIND VELOCITY
Generalized algebraic relation for predicting developing curved-channel flow with a k-epsilon model of turbulence
[DE83-009946] 01 p0080 N84-10520
Measurement of two-phase flow velocity using a laser Doppler anemometer
[DE83-013522] 01 p0082 N84-10531
Vertical concentric-tube ground-coupled heat exchangers
[DE83-014003] 02 p0219 N84-11435
Correlation of flight effects on centerline velocity decay for cold-flow acoustically excited jets
[NASA-TM-83502] 02 p0287 N84-11883
Observational constraints on solar wind acceleration mechanisms 03 p0467 N84-13078
A helium refrigerator with features for supercritical pressure cooling
[DE84-017759] 04 p0515 N84-13383
New relationships for turbulent plumes
[NAL-TR-763] 04 p0532 N84-13495
Higher-order derivative correlations and the alignment of small-scale structures in isotropic numerical turbulence
[NASA-TM-84407] 05 p0679 N84-14464
Second order theory of unsteady burned-anchored flames with arbitrary Lewis number
[CA-8313] 06 p0801 N84-15219
Tube vibration in industrial-size test heat exchanger (90 deg square layout)
[DE83-011931] 06 p0862 N84-15614

Development of a consensus standard for determining thermal performance of high-concentration-ratio solar collectors
[DE83-005129] 06 p0672 N84-15676
Fluid-dynamic error in measurement of periodic flow by spherical yawmeter and flow separation on yawmeter head 07 p0983 N84-16369
Turbulence and mass motion in galactic molecular clouds 08 p1244 N84-18129
Ignition and unsteady flame propagation in turbulent reactive flows
[AD-A136450] 09 p1279 N84-18349
Developing flow in S-shaped ducts. 2: Circular cross-section duct
[NASA-CR-3759] 09 p1312 N84-18572
Transition to turbulence in plane channel flows
[NASA-CR-172298] 09 p1313 N84-18577
Experimental determination of the relative flow at the tip of a transonic axial compressor rotor
[AD-A137483] 10 p1420 N84-19288
Stress corrosion of ceramic materials
[AD-A136729] 10 p1467 N84-19581
An analytical and numerical study of the interaction of rarefaction waves with area changes in ducts. Part 1: Area reductions
[UTIAS-272] 11 p1651 N84-20780
Studies of the velocity structure of the Gulf Stream east of Cape Hatteras
[AD-P002663] 11 p1691 N84-21028
Application of laser velocimetry to unsteady flows in large scale high speed tunnels
[NASA-CR-166575] 12 p1765 N84-21511
The probabilistic analysis on the influence of roughness to depth and velocity in open channels
[PREPRINT-792] 12 p1817 N84-21847
Velocity shear stabilization of the current convective instability
[AD-A137963] 12 p1909 N84-22439
Effect of oscillations upon velocity distributions in simulated solid propellant flow environments
13 p1945 N84-22646
Hypersonic flow around flat body in case of intense radiative heat exchange 13 p1972 N84-22795
Chronology, morphology and stratigraphy of pumiceous pyroclastic-flow (ignimbrite) deposits from the eruption of Mount St. Helens on 18 May 1983
13 p2080 N84-23476
Swirl at gas-intake inlet
[AD-A139472] 14 p2146 N84-23861
Experimental investigation of shock-cell noise reduction for dual-stream nozzles in simulated flight comprehensive data report. Volume 2: Laser velocimeter data, static pressures and shadowgraph photos
[NASA-CR-168336-VOL-2] 14 p2220 N84-24324
The instability of axisymmetric supersonic jet impinging on flat plate
[BU-287] 15 p2256 N84-24546
Development of temperature-, velocity- and concentration-profiles in a curved combustor
15 p2292 N84-24757
Fluid flow in laser melted pool
15 p2306 N84-24837
Flow between rotating disks. Part 1: Basic flow
15 p2315 N84-24890
The boundary layer on compressor cascade blades
[NASA-CR-173514] 15 p2332 N84-25001
Oblique vortex induced vibration of cylinders
[BU-295] 15 p2350 N84-25104
The effect of ice temperature on regelation velocities
15 p2353 N84-25113
Molecular velocimetry using stimulated Raman spectroscopy
[NASA-TM-85808] 15 p2405 N84-25433
A model atmosphere analysis of the Am star 68 Tau
15 p2422 N84-25548
Evaluation of boundary layer measurements in two-dimensional compressible subsonic flow with a pressure gradient across the boundary layer
[ESA-TT-810] 16 p2440 N84-25653
Digital control of flight simulator motion base actuator
[ARL-SYS-TM-69] 16 p2454 N84-25732
On crack paths
[AD-P003110] 16 p2468 N84-25815
Practice; criteria; provisions; mathematical descriptions: Examples
[PUBL-310] 16 p2487 N84-25951
Recent developments in multigrid methods for the steady Euler equations 16 p2492 N84-25988
Three component velocity measurements using Fabry-Perot interferometer
[NASA-TM-83692] 16 p2495 N84-26010
Seasonal oscillations of the subtropical convergence between the Brazil and Malvinas currents, using oceanographic and SMS-2 satellite data
[INPE-3092-PRE/497] 16 p2532 N84-26255
The method of complex characteristics for design of transonic compressors 17 p2599 N84-26659
Flow pattern in an indoor rocket test stand during static firing of solid propellant rocket motors
[PML-1983-40] 17 p2614 N84-26731
A fundamental study of relation between the velocity fields far upstream of, at and far downstream of a a rotor disk in a shear flow — wind turbine flow
[FFA-136] 17 p2667 N84-27006
Dependence of velocity on depth determined from travel-time curves of refracted waves in randomly inhomogeneous media 17 p2701 N84-27208
A compilation of moored current meter data from the region of the North Pacific boundary current, volume 33
[AD-A140687] 17 p2737 N84-27389
A new method for determining acoustic-liner admittance in a rectangular duct with grazing flow from experimental data
[NASA-TP-2310] 17 p2762 N84-27543
Underwater laser anemometer for measuring ocean currents 18 p2857 N84-28141
Velocity and temperature characteristics of two-stream, coplanar jet exhaust plumes
[NASA-TM-83730] 19 p2965 N84-28790
Investigation of the influence of the zeta-potential on the filtration rate in the presence of collectors
[NASA-TM-77447] 19 p2987 N84-28927
Electron velocity distributions near collisionless shocks
[DE84-011352] 20 p3185 N84-30235
Stability of tubes conveying fluid
[DE84-010573] 20 p3185 N84-30240
Long-term salinity, temperature and current measurements in upper Chesapeake Bay
[PB84-180280] 20 p3251 N84-30636
Analysis and testing of a new method for drop size measurement using laser scatter interferometry
[NASA-CR-174636] 21 p3405 N84-31595
Air data position-error calibration using state reconstruction techniques
[NASA-TM-86029] 22 p3535 N84-32384
Representation of potential flow about axisymmetric bodies with discrete singularities
[AD-A143526] 22 p3594 N84-32760
Effects of system and geometrical parameters on the flow of Class-B solids in overflow standpipes
[DE84-013948] 22 p3594 N84-32782
High-efficiency particulate air filter behavior at high-speed flows
[DE84-014137] 22 p3595 N84-32769
Experimental investigation of shock-cell noise reduction for single-stream nozzles in simulated flight, comprehensive data report. Volume 2: Laser velocimeter data
[NASA-CR-168234-VOL-2] 22 p3652 N84-33149
Wake studies at the flowind vertical axis wind turbine generator site
[DE84-014837] 23 p3691 N84-33392
Sidetone generator flowmeter
[DE84-014246] 23 p3752 N84-33783

FLOW VISUALIZATION

NT NUMERICAL FLOW VISUALIZATION
Instabilities in trailing vortices: Flow visualization using hot-wire anemometry 03 p0321 N84-12103
Visualization of vortical type flows in three dimensions
03 p0322 N84-12107
Viscous three-dimensional flow separations from high-wing propeller-turbine nacelle models
03 p0323 N84-12115
Advanced diagnostics and instrumentation for chemically reactive flow systems
[AD-A131814] 03 p0346 N84-12251
La Recherche Aerospatiale, Bimonthly Bulletin, no. 1982-5, 210/September-October 1982
[ESA-TT-785] 04 p0477 N84-13142
Flow visualization and interpretation of visualization data for deflected thrust V/STOL nozzles
[NASA-TM-83554] 05 p0631 N84-14147
A study of helicopter rotor aerodynamics in ground-effect at low speeds 06 p0779 N84-15106
An experimental study of airfoil-spoiler aerodynamics
06 p0784 N84-15133
An experimental investigation of the structure of a turbulent reattaching flow behind a backward-facing step
06 p0832 N84-15415
Flow visualization and LDV measurement of turbulent mixing layers
[REPT-606] 06 p0834 N84-15424
Experimental techniques for free edges of turbulent flows 06 p0837 N84-15450
Turbulent flow downstream of a backward-facing step
[CFD/83/2] 07 p1005 N84-16515
Application of holography to flow visualization
[NASA-TM-84325] 07 p1007 N84-16530
Multi-ducted inlet combustor research and development
[AD-A135906] 09 p1257 N84-18205
The effects of cylindrical surface modifications on turbulent boundary layers
[AD-A136296] 09 p1314 N84-18585
Experimental investigation of channel meandering
[REPT-5/1983] 09 p1336 N84-18724
Flowfield measurements in a model scramjet combustion using laser-induced iodine fluorescence
[NASA-CR-175399] 10 p1419 N84-19283
Evaluation of a candidate model complex flow combustor using instantaneous two-color laser anemometry
10 p1458 N84-19521
A synthesized model of the near-wall behavior in turbulent boundary layers
[AD-A137029] 10 p1493 N84-19784
Flow visualizations, velocity measurements, and surface convection measurements in simulated 20.8-cm Nova box amplifier cavities
[DE84-004354] 10 p1501 N84-19812
Mass and momentum transport experiments with swirling flow 11 p1610 N84-20541
Investigations of flowfields found in typical combustor geometries 11 p1611 N84-20544
Dilution jet experiments in compact combustor configurations 11 p1611 N84-20545
Determination of boundary layer transition and separation on double circular arc compressor blades in a large subsonic cascade
[AD-A137550] 11 p1652 N84-20786
NASA/MSFC ground-based Doppler lidar nocturnal boundary layer experiment (Noblex)
[NASA-CR-3778] 11 p1731 N84-21293
Report by the Chairman of the Fluid Dynamics Panel
12 p1763 N84-21499
Wind-tunnel investigation of an advanced general aviation canard configuration
[NASA-TM-85760] 12 p1769 N84-21539
Measurement of fluid properties using rapid-double-exposure and time-average holographic interferometry
[NASA-TM-83630] 12 p1818 N84-21849
An experimental and analytic study of the flow subsonic wind tunnel inlets
[AD-A138865] 13 p1927 N84-22540
Experimental investigation of the internal flow field in STOL engine inlets 13 p1927 N84-22544
Film cooling on a gas turbine blade near the end wall
[AD-A136794] 13 p1933 N84-22569
Flash X-ray with image enhancement applied to combustion events 13 p1948 N84-22686
Visualisation of the vortex dominated flow around a delta wing-body combination using a water tunnel
[BAE-821/RES/6631] 13 p1988 N84-22904
Experimental observations of vortex ring interaction with the fluid adjacent to a surface
[AD-A138999] 13 p1990 N84-22917
A flow visualisation study of tip vortex formation
[ARL-AERO-NOTE-421] 14 p2100 N84-23603
Water-tunnel study of transition flow around circular cylinders
[NASA-TM-85879] 14 p2100 N84-23606
Swirl at gas-intake inlet
[AD-A139472] 14 p2146 N84-23861
Optical imaging of a coupling region between inter-streaming plasmas
[AD-A139191] 14 p2224 N84-24348
Wake visualization
[BU-282] 15 p2255 N84-24542
An aerodynamic study of combustion in the combustion chambers of turbomachines: Experimental and theoretical approaches 15 p2293 N84-24764
Holographic aids for internal combustion engine flow studies
[NASA-TM-83681] 15 p2335 N84-25017
Ultrasound visualization of cardiovascular systems
15 p2430 N84-25597
Post-processing: Extracting and displaying useful information from digital images
16 p2491 N84-25977
Laser speckle velocimetry in fluid dynamics applications 16 p2491 N84-25979
Natural laminar flow experiments on modern airplane surfaces
[NASA-TP-2256] 17 p2599 N84-26660
Flow visualization study of natural convection from a heated protrusion in a liquid filled rectangular enclosure
[AD-A140696] 17 p2668 N84-27012
Dilution jets in accelerated cross flows
[NASA-CR-174717] 19 p2966 N84-28794
Visualization for a free jet by a laser induced fluorescence method and its structure 20 p3169 N84-30120
Flow of foam through porous media
[DE84-012410] 20 p3186 N84-30246
Thermal oscillations downstream of an elbow in stratified pipe flow
[DE84-006550] 21 p3401 N84-31579

Preliminary experiments on phase conjugation for flow visualization — barium titanate single crystals
[NASA-TM-83766] 21 p3498 N84-32169
Experimental investigation of shock-cell noise reduction for single-stream nozzles in simulated flight, comprehensive data report. Volume 3: Shadowgraph photos and facility description
[NASA-CR-168234-VOL-3] 22 p3652 N84-33150
Results of design studies and wind tunnel tests of an advanced high lift system for an Energy Efficient Transport
[NASA-CR-159389] 23 p3693 N84-33403
A theoretical study of resin flows for thermosetting materials during prepreg processing
[NASA-CR-172442] 23 p3724 N84-33596
Laminar convection with buoyancy in tube flows with a surrounding liquid medium 23 p3745 N84-33740
Visualization of the 3-dimensional flow around a model with the aid of a laser knife
[NASA-TM-77497] 23 p3746 N84-33748
Large structure in the far wakes of two-dimensional bluff bodies
[AD-A143642] 23 p3747 N84-33751
A flow visualization investigation on selected shapes with emphasis on flow separation
[AD-A143804] 23 p3747 N84-33753
Space Shuttle AFRSI OMS pod environment test using model 81-0 test fixture in the Ames Research Center 9x7-foot supersonic wind tunnel (OS-314A/B/C)
[NASA-CR-167699] 24 p3860 N84-34464
The effects of curvature on turbulent mixing layers
[AD-A144250] 24 p3900 N84-34697

FLOWMETERS
NT GAS METERS
NT HOT-WIRE FLOWMETERS
NT RHEOMETERS
Helium-flow measurement using ultrasonic technique
[DE83-017765] 03 p0431 N84-12826
Investigation of a rainwater flow and temperature measuring device in a moist atmosphere refrigerant — cooling ponds
[HT-31.82.11] 09 p1317 N84-18602
Comparison between vortex flowmeter and pressure flowmeters
[PTB-ME-47] 10 p1499 N84-19800
Calibration of engines laboratory air flow measuring devices
[AD-A137909] 11 p1660 N84-20831
Active ultrasonic cross-correlation flowmeters for mixed-phase pipe flows
[DE84-006449] 20 p3189 N84-30260
Expendable current profiler (XCP, Mod 7)
[AD-A142935] 21 p3451 N84-31897
Construction and evaluation of a flow test stand
[PB84-201581] 22 p3615 N84-32906
Sidetone generator flowmeter
[DE84-014246] 23 p3752 N84-33783
A study for developing an ultrasonic Doppler flowmeter
[BMFT-FB-T-84-135] 23 p3752 N84-33788
Flow metering valve
[DE84-014249] 23 p3757 N84-33815

FLUCTUATION
U VARIATIONS

FLUCTUATION THEORY
Data processing techniques used with MST radars: A review 17 p2694 N84-27159
An improved version of the k-W model of turbulence
[CFD/83/1] 18 p2837 N84-28011

FLUE GASES
Protocol for the collection and analysis of volatile POHCs (Principal Organic Hazardous Constituents) using VOST (Volatile Organic Sampling Train)
[PB84-170042] 15 p2338 N84-25035

FLUENCE
Calculations of radiation fields and monkey mid-head and mid-thorax responses in AFRRI-TRIGA reactor facility experiments
[DE83-015483] 02 p0264 N84-11741
Equivalent electron fluence for solar proton damage in GaAs shallow junction cells 19 p3046 N84-29324

FLUID AMPLIFICATION
U FLUID AMPLIFIERS

FLUID AMPLIFIERS
Fluidics: Basic components and applications
[AD-A134046] 05 p0679 N84-14465
The effect of fluid inertia and viscoelasticity in squeeze-film damper bearings
[AD-A138054] 12 p1822 N84-21880

FLUID BOUNDARIES
NT GAS-SOLID INTERFACES
NT LIQUID-LIQUID INTERFACES
NT LIQUID-SOLID INTERFACES
NT LIQUID-VAPOR INTERFACES
Magnetohydrodynamic flow past nonconducting wedge 17 p2647 N84-26931
Numerical treatment of pipe boundary conditions in two-phase flow
[DE84-006553] 20 p3185 N84-30238
Finite-amplitude interfacial waves
[AD-A142767] 21 p3444 N84-31849

FLUID DYNAMICS
NT AERODYNAMICS
NT AEROTHERMODYNAMICS
NT COMPUTATIONAL FLUID DYNAMICS
NT CYLINDRICAL PLASMAS
NT ELASTOHYDRODYNAMICS
NT ELECTROHYDRODYNAMICS
NT GAS DYNAMICS
NT HYDRODYNAMICS
NT HYPERSONICS
NT INTERACTIONAL AERODYNAMICS
NT MAGNETOHYDRODYNAMICS
NT RAREFIED GAS DYNAMICS
NT ROTOR AERODYNAMICS
NT VORTEX SHEDDING
Fluid dynamic mechanisms and interactions within separated flows and their effects on missile aerodynamics
[AD-A130831] 01 p0079 N84-10514
An experimental study of the dynamics of an unsteady turbulent boundary layer 02 p0221 N84-11452
Aerodynamic design for overall vehicle performance 03 p0318 N84-12077
Waves on vortex cores and their relation to vortex breakdown 03 p0326 N84-12128
Space station attitude control system concept and requirements 03 p0344 N84-12234
Rising bubbles
[AD-A131572] 03 p0371 N84-12418
Dense molecular thermodynamics
[DE83-015216] 03 p0457 N84-13006
Role of thermal conduction in the acceleration of the solar wind 03 p0467 N84-13079
Reverse combustion along constant geometry fissures in heterogeneous fuels 04 p0492 N84-13232
Design and performance of a fixed, nonaccelerating, guide vane cascade that operates over an inlet flow angle range of 60 deg
[NASA-TM-83519] 05 p0626 N84-14120
Forces on a whirling centrifugal pump-impeller 05 p0687 N84-14516
Proceedings of the 1982 Forum on Subsidence Due to Fluid Withdrawals
[DE84-001028] 05 p0704 N84-14618
Mach 0.6 to 3.0 flows over rectangular cavities
[AD-A134579] 06 p0782 N84-15121
Fluid thermodynamics
[ESA-TT-778] 06 p0645 N84-15512
An experimental study on wave interception by several pairs of balloons and a pair of grouped several balloons in submerged state 07 p0962 N84-16363
Fluid-dynamic error in measurement of periodic flow by spherical yawmeter and flow separation on yawmeter head 07 p0963 N84-16369
Melting phenomena investigated by laser light scattering
[DE84-002004] 07 p1010 N84-16554
Bioecholocation method for inestigation of parameters of intracranial circulation of blood and fluid in man 07 p1047 N84-16788
Numerical fluid dynamics
[AD-A135900] 09 p1315 N84-18593
Reactive shock phenomena in condensed materials: Formulation of the problem and method of solution
[AD-A136514] 09 p1385 N84-19046
Pattern formation by shock processes
[DE83-015249] 10 p1469 N84-19592
Manufacturing in space: Fluid dynamics numerical analysis
[NASA-CR-175401] 10 p1491 N84-19748
The stability and dynamics of elastic structures and fluid flows
[AD-A137184] 10 p1491 N84-19750
Roughness effects on compressor blade performance in cascade at high Reynolds number
[AD-A136896] 10 p1492 N84-19755
In situ laser measurements of silicon CVD
[DE84-004148] 10 p1501 N84-19809
Experimental validation of the component synthesis method for predicting vibration of liquid-filled piping 10 p1510 N84-19882
Acoustic responses of coupled fluid-structure system by acoustic-structural analogy 10 p1510 N84-19883
Adaptive grid generation for numerical solution of partial differential equations
[AD-A136985] 10 p1570 N84-20289
High frequency acoustic instabilities in heated fluids
[DE84-005114] 10 p1575 N84-20324
Measurement of spray combustion processes 11 p1609 N84-20530
The flow of an electrorheological suspension in cells of different geometries
[RAE-TRANS-2111] 11 p1646 N84-20760
Analysis of flow dynamics through small diameter gas sampling systems
[NASA-CR-175447] 11 p1728 N84-21276
AGARD Highlights, March 1984
[AGARD-HIGHLIGHTS-84/1] 12 p1763 N84-21498
The 20th JANNAF Combustion Meeting, volume 1
[AD-A138033] 13 p1943 N84-22632
Wind Tunnels and Testing Techniques
[AGARD-CP-348] 14 p2094 N84-23564
A review and an update of the FDP Specialists Meeting (London) on Wall Interference in Wind Tunnels 14 p2095 N84-23570
Fluid dynamic aspects of turbine engine testing 14 p2098 N84-23586
Physical aspects of computing the flow of a viscous fluid
[NASA-TM-85893] 14 p2100 N84-23605
INTFL-8401 computer tomography for interferomatic aerodynamic measurements
[AD-A139591] 14 p2101 N84-23611
Preliminary design of two Space Shuttle fluid physics experiments
[NASA-CR-174649] 14 p2114 N84-23667
Finite-difference fluid dynamics computer mathematical models for the design and interpretation of experiments for space flight — atmospheric general circulation experiment, convection in a float zone, and the Bridgman-Stockbarger crystal growing system
[NASA-TP-2323] 14 p2144 N84-23852
Spectral methods for partial differential equations
[AD-P002980] 14 p2202 N84-24216
AGARD bulletin: Meetings, publications, membership
[AGARD-BUL-84/1] 14 p2252 N84-24527
V/STOL wind-tunnel testing
[NASA-TM-85936] 15 p2253 N84-24528
Kinetic theory of gases, magneto-fluid dynamics and their application
[AD-A139616] 15 p2332 N84-25007
Elastohydrodynamic lubrication. Status of understanding 15 p2340 N84-25048
The generation of higher levels of turbulence in the test section of the high speed cascade wind tunnel at Brunswick for simulation of turbomachinery conditions
[ESA-TT-815] 16 p2440 N84-25654
General introduction. Part 1: The waverider. Origins, evolution and applications. Part 2: Waverider aero-and aerothermodynamics. Part 3: Configuration design. Reentry gliders. Part 4: Configuration design. Cruise/ramjet vehicles 16 p2442 N84-25667
On-orbit cryogenic fluid transfer
[NASA-TM-83688] 16 p2457 N84-25753
Unsteady Flow in Turbomachines, volume 1
[VKI-LS-1984-02-VOL-1] 16 p2488 N84-25960
Introduction to unsteady flow in turbomachines 16 p2489 N84-25962
Stability of pumps and compressors 16 p2489 N84-25963
Theory of rotating stall of multistage axial compressors 16 p2489 N84-25964
Digital image processing and analysis 16 p2490 N84-25974
Instantaneous concentration and velocity measurements through laser visualization associated with a digital processing system 16 p2491 N84-25978
Immersion of disk in compressible fluid at angle to free surface 17 p2647 N84-26930
Revision and experimental verification of the hazard assessment computer system models for spreading, movement, dissolution, and dissipation of insoluble chemicals spilled onto water, volume 1
[AD-A140635] 17 p2724 N84-27337
Introduction to the theory of fluid and magnetofluid turbulence
[IPPJ-670] 17 p2766 N84-27565
An analysis of wave interactions in swept-wing flows
[NASA-CR-173723] 18 p2786 N84-27681
Results of the Purdue University GAS-1 payload 18 p2799 N84-27760
The stability and dynamics of elastic structures and fluid flows
[AD-A141206] 18 p2837 N84-28006
Basic mathematical formulation of the contaminant dispersion processes 18 p2877 N84-28268
Dynamic changes of phase in a van der Waals fluid
[AD-A141708] 19 p3024 N84-29178
Energy release and fluid dynamics in multiphase systems
[AD-A142402] 20 p3184 N84-30228
Study of ebullated bed fluid dynamics
[DE84-010230] 20 p3187 N84-30251
An improved accuracy general remapping algorithm
[DE84-004320] 20 p3282 N84-30837

USSR report: Physics and mathematics
[JPRS-UPM-84-001] 20 p3285 N84-30862
Airblast simulations using flux-corrected transport codes
[AD-A142820] 21 p3400 N84-31567
USSR report: Physics and mathematics
[JPRS-UPM-84-003] 21 p3477 N84-32043
USSR report: Physics and mathematics
[JPRS-UPM-84-005] 21 p3484 N84-32081
An integral equation for the solution of nonlinear wave equations 22 p3529 N84-32347
Mass transfer from a circular cylinder: Effects of flow unsteadiness and slight nonuniformities
[NASA-CR-174759] 22 p3593 N84-32751
Large HAWT (Horizontal-Axis Wind Turbine) wake measurement and analysis
[DE84-013269] 22 p3596 N84-32772
Sidewall boundary layer corrections in subsonic, 2-dimensional airfoil-hydrofoil testing
[AD-A144002] 23 p3691 N84-33391
An experimental investigation of gas jets in confined swirling air flow
[NASA-CR-3832] 23 p3694 N84-33412
Theory of vorticity generation by shock wave and flame interactions
[AD-A144432] 24 p3880 N84-34582

FLUID FILLED SHELLS
NT LIQUID FILLED SHELLS
A nonintrusive nuclear monitor for measuring liquid contents in sealed vessels
[NASA-TM-85754] 08 p1161 N84-17560
Combined tension-torsion of a cylindrical mixture of an elastic solid and fluid
[AD-A136351] 09 p1331 N84-18689
Free oscillations of ideal stratified fluid in container 21 p3480 N84-32058

FLUID FILMS
NT SQUEEZE FILMS
Microbial fouling and its effect on power generation
[AD-A131084] 01 p0112 N84-10726
Simultaneous heat and mass transfer in absorption of gases in turbulent liquid films
[DE83-016394] 02 p0220 N84-11445
Study of the lubrication mechanism of thin film lubricated concentrated steel contacts. The influence of pre-treatment of the steel on the load carrying capacity
[AD-A135067] 08 p1166 N84-17593
Influence of surface tension and surface shear on final coat thickness in jet-stripped continuous coating of sheet materials
[AD-A136402] 09 p1314 N84-18586
Unbalance response of a single mass rotor mounted on dissimilar hydrodynamic bearings 10 p1515 N84-19919
Real surface effects in elastohydrodynamic lubrication 15 p2341 N84-25052
Preliminary indications of water film distribution and thickness on an airfoil in a water spray
[NASA-TM-85796] 18 p2785 N84-27677
The Shock and Vibration Digest, volume 16, no. 7
[AD-A143958] 21 p3418 N84-31679
Literature review of tilting pad and turbulent hydrostatic journal bearings for nuclear main coolant pumps 21 p3418 N84-31680

FLUID FILTERS
NT AIR FILTERS
Electrostatic charging test for aviation fuel filters
[AD-A136986] 10 p1433 N84-19366
Investigations of the feasibility of fabric filters at high temperatures and pressures for an energy saving method of gas purification
[BMFT-FB-T-83-292] 15 p2286 N84-24718
Evaluation of the performance of filter separators with gasohol
[AD-A139645] 15 p2343 N84-25066
Electrostatic filtration of N2O4 for removal of solid and vapor contaminants 20 p3138 N84-29922

FLUID FLOW
NT AIR CURRENTS
NT AIR FLOW
NT AIR JETS
NT ANNULAR FLOW
NT AXIAL FLOW
NT AXISYMMETRIC FLOW
NT BAROTROPIC FLOW
NT BASE FLOW
NT BENARD CELLS
NT BLOOD FLOW
NT BOUNDARY LAYER FLOW
NT BOUNDARY LAYER SEPARATION
NT CAPILLARY FLOW
NT CASCADE FLOW
NT CAVITATION FLOW
NT CHANNEL FLOW
NT COAXIAL FLOW
NT COMBUSTIBLE FLOW
NT COMPRESSIBLE FLOW
NT CONICAL FLOW
NT CONTINUUM FLOW
NT CONVECTIVE FLOW
NT CORE FLOW
NT CORNER FLOW
NT COUETTE FLOW
NT COUNTERFLOW
NT CRITICAL FLOW
NT CROSS FLOW
NT DUCTED FLOW
NT EQUILIBRIUM FLOW
NT FREE FLOW
NT FREE MOLECULAR FLOW
NT FUEL FLOW
NT GAS FLOW
NT HELICAL FLOW
NT HYPERSONIC FLOW
NT HYPERVELOCITY FLOW
NT INCOMPRESSIBLE FLOW
NT INLET FLOW
NT INVISCID FLOW
NT ISOTHERMAL FLOW
NT JET FLOW
NT JET MIXING FLOW
NT JET STREAMS (METEOROLOGY)
NT KNUDSEN FLOW
NT LAMINAR FLOW
NT LIQUID FLOW
NT MAGNETOHYDRODYNAMIC FLOW
NT MASS FLOW
NT MERIDIONAL FLOW
NT MOLECULAR FLOW
NT MULTIPHASE FLOW
NT NONEQUILIBRIUM FLOW
NT NONNEWTONIAN FLOW
NT NONUNIFORM FLOW
NT NOZZLE FLOW
NT ONE DIMENSIONAL FLOW
NT OPEN CHANNEL FLOW
NT OSCILLATING FLOW
NT PARALLEL FLOW
NT PIPE FLOW
NT PLASTIC FLOW
NT POTENTIAL FLOW
NT PRESSURE HEADS
NT PROPELLANT TRANSFER
NT RADIAL FLOW
NT REATTACHED FLOW
NT RECIRCULATIVE FLUID FLOW
NT REVERSED FLOW
NT SECONDARY FLOW
NT SEPARATED FLOW
NT SHEAR FLOW
NT SINGLE-PHASE FLOW
NT SLIP FLOW
NT SOLIDS FLOW
NT STAGNATION FLOW
NT STEADY FLOW
NT STEAM FLOW
NT STOKES FLOW
NT STRATIFIED FLOW
NT SUBCRITICAL FLOW
NT SUBSONIC FLOW
NT SUPERCRITICAL FLOW
NT SUPERSONIC FLOW
NT SUPERSONIC JET FLOW
NT THREE DIMENSIONAL FLOW
NT TRANSITION FLOW
NT TRANSONIC FLOW
NT TRESCA FLOW
NT TURBULENT FLOW
NT TWO DIMENSIONAL FLOW
NT TWO PHASE FLOW
NT UNIFORM FLOW
NT UNSTEADY FLOW
NT VERTICAL AIR CURRENTS
NT VISCOUS FLOW
NT WALL FLOW
NT WATER FLOW
NT WEDGE FLOW
A lifting surface theory in rotational flow
[NASA-CR-172233] 01 p0002 N84-10017
Characterization of Kel-F-graphite composite (Kelgraf) electrodes and application to detection in flowing streams
[PB83-224204] 01 p0039 N84-10247
The evolution equations for Taylor vortices in the small gap limit
[NASA-CR-172249] 01 p0077 N84-10501
Numerical method for computing flow through partially saturated porous media
[DE83-007910] 01 p0081 N84-10529
Nonlinear stability control
[DE83-014341] 01 p0082 N84-10532
Aerodynamics of Vortical Type Flows in Three Dimensions
[AGARD-CP-342] 03 p0321 N84-12099
Vortex breakdown: A two-stage transition 03 p0325 N84-12124
A contribution to the problem of vortex breakdown 03 p0325 N84-12125
Numerical simulation of vortex breakdown by the vortex-filament method 03 p0325 N84-12126
Mechanical response of fluid-filled poroelastic solids 03 p0367 N84-12525
On the growth of gravity-capillary waves by wind
[KNMI-WR-83-10] 03 p0412 N84-12698
A viscous-inviscid interactive procedure for rotational flow in cascades of two dimensional airfoils of arbitrary shape
[NASA-CR-174609] 04 p0478 N84-13149
An analysis of the interaction between a submerged jet and a receiver-diffuser in a reverse-flow diverter
[DE83-012593] 04 p0536 N84-13521
Fully-coupled solution of pressure-linked fluid flow equations
[DE83-017969] 04 p0536 N84-13527
An application of the finite element method to the solution of low Reynolds number, incompressible flow around a Joukowski aerofoil, with emphasis on automatic generation of grids
[AD-A133008] 05 p0628 N84-14127
Liquid payload roll moment induced by a spinning and coning projectile
[AD-A133681] 05 p0680 N84-14472
Value of flow calibration for decision making in infiltration/inflow studies
[PB83-259739] 05 p0682 N84-14483
Heat transfer, pressure drop, and fluid flow in interrupted wall passages 05 p0682 N84-14487
Fully coupled calculation of fluid flows with limited use of computer storage
[DE84-002218] 06 p0844 N84-15506
Fluid thermodynamics
[ESA-TT-778] 06 p0845 N84-15512
High-temperature direct absorption research
[DE84-000019] 07 p1003 N84-16505
Fundamentals of non-Newtonian liquid flow on surfaces
[AD-A135543] 08 p1158 N84-17541
Conductivity mapping of underground flow channels and moisture anomalies in carbonate terrain using electromagnetic methods
[DE84-004098] 08 p1178 N84-17677
Blood flow measurements under high-G conditions: Early prediction of Gz tolerance
[AD-A134653] 08 p1200 N84-17823
Mathematical methodology for evaluating simulation of flow in porous media
[DE84-004775] 09 p1316 N84-18601
The stability and dynamics of elastic structures and fluid flows
[AD-A137184] 10 p1491 N84-19750
Foreign particles at a solidification front
[BMFT-FB-W-83-031] 10 p1495 N84-19777
Lubrication and support of a single piston ring
[DE84-004368] 10 p1502 N84-19818
Combustion Fundamentals Research
[NASA-CP-2309] 11 p1608 N84-20525
Application of improved numerical schemes 11 p1610 N84-20537
Advanced numerics for multi-dimensional fluid flow calculations 11 p1610 N84-20539
Numerical modeling of parametric uncertainties in flow through porous media: Development and initial testing of PORSTAT
[DE84-006682] 11 p1654 N84-20798
Modeling of the regional hydraulics of the Rustler Formation
[DE84-005859] 11 p1672 N84-20910
Metamorphic fluids and uplift-erosion history of a portion of the Kapuskasing structural zone, Ontario, as deduced from fluid inclusions 11 p1680 N84-20962
HC quench layer formation in combustion processes
[DE84-005068] 12 p1823 N84-21883
Microcomputer numerical analysis system for gas dynamics application
[NASA-CR-171005] 13 p1988 N84-22908
Flow measurement facilities at NEL on 1 August 1983
[NEL-686] 13 p1991 N84-22924
Heat flow, fluid flow and solidification phenomena in weld pools 15 p2306 N84-24835
Simulation of heat transfer and fluid flow in the solidification of alloys 15 p2306 N84-24836
Fluid flow in laser melted pool 15 p2306 N84-24837
Flow between rotating disks. Part 1: Basic flow 15 p2315 N84-24890
Flow between rotating disks. Part 2: Stability 15 p2315 N84-24891

Flow and free surface of a non-Newtonian fluid between concentric cylinders maintained at unequal temperatures
15 p2315 N84-24893
Introduction and review of some jet interference phenomena relevant to V/STOL aircraft
16 p2436 N84-25626
Dynamic analysis of fluid-structure systems
[PB84-162916] 16 p2478 N84-25887
Digital Image Processing in Fluid Dynamics
[VKI-LS-1984-03] 16 p2490 N84-25973
Laser speckle velocimetry in fluid dynamics applications
16 p2491 N84-25979
Second-order effects in complex rheological flows
16 p2494 N84-25999
Influence of velocity shear on character of flow of incompressible stratified fluid around obstacle
17 p2707 N84-27237
A practical adaptive-grid method for complex fluid-flow problems
[NASA-TM-85969] 19 p2958 N84-28745
SPAR improved structure-fluid dynamic analysis capability, phase 2
[NASA-CR-171078] 19 p3021 N84-29153
Hyperbolicity and change of type in the flow of viscoelastic fluids
[AD-A141508] 19 p3023 N84-29172
Some recent progress in steep front calculations for porous flow
[DE84-008249] 19 p3025 N84-29183
Purification of nitrogen tetroxide for long-term reliability
20 p3137 N84-29920
Non-inertial flow of dilute polymer solutions in a sudden contraction
[BLL-WH-558-(9091.9F)] 20 p3183 N84-30221
Flow Induced Vibration Program at Argonne National Laboratory
[DE84-009233] 20 p3187 N84-30249
Wave uplift pressure on horizontal platforms
[PB84-190628] 20 p3188 N84-30257
Void-particulate director
[DE84-011300] 20 p3190 N84-30262
Applied mathematics of transport theory
[DE84-011498] 20 p3262 N84-30838
Experimental study on porous-plug phase separator for superfluid He2
[ISAS-612] 20 p3306 N84-31006
A direct numerical method for the solution of unsteady Navier-Stokes equations in generalized orthogonal coordinates
21 p3397 N84-31549
Oscillatory instability in a 2-fluid Benard problem
[AD-A142792] 21 p3399 N84-31565
Hopf bifurcation in two-component flow
[AD-A142644] 21 p3400 N84-31568
Efficient finite-difference calculation procedure for multi-dimensional fluid flows
[DE84-011710] 21 p3401 N84-31577
Computer codes for fluid-structure interactions
[DE84-011066] 21 p3401 N84-31578
Two years experience testing solar collectors in Brazil
[INPE-3221-RPE/461] 21 p3434 N84-31785
Motion of vortex pair between parallel walls
21 p3486 N84-32092
Effects of system and geometrical parameters on the flow of Class-B solids in overflow standpipes
[DE84-013948] 22 p3594 N84-32782
High-efficiency particulate air filter behavior at high-speed flows
[DE84-014137] 22 p3595 N84-32789
Heat transfer, fluid flow and element vaporization in laser welding
[DE84-011783] 22 p3605 N84-32839
Aggradation and degradation at alluvial-channel beds
[PB84-201557] 22 p3615 N84-32905
Construction and evaluation of a flow test stand
[PB84-201581] 22 p3615 N84-32906
Experimental and model transport and diffusion studies in complex terrain with emphasis on tracer studies
[DE84-013076] 22 p3626 N84-32975
Existence and equivalence of solutions of mixed problems for Euler's hydrodynamic equations
[ISSN-0208-5658] 23 p3745 N84-33738
A fast accurate algorithm for solving the steady 3-dimensional equations for inviscid rotational flow
23 p3746 N84-33745
Contribution of pressure to the moment during spin-up on a nutating liquid-filled cylinder: Ad hoc model
[AD-A143678] 23 p3747 N84-33752
Sidetone generator flowmeter
[DE84-014246] 23 p3752 N84-33783
Porosity and environment 24 p3882 N84-34593
Solidification structures grown under induced flow and continuous casting of steel 24 p3883 N84-34599
Modeling two-dimensional freezing using transfinite mappings and a moving-mesh finite element technique
[AD-A144131] 24 p3900 N84-34696
The effects of curvature on turbulent mixing layers
[AD-A144250] 24 p3900 N84-34697

FLUID INJECTION
NT GAS INJECTION
NT LIQUID INJECTION
NT WATER INJECTION
Design, performance, and analysis of an aquifer thermal-energy-storage experiment using the doublet-well configuration
[DE84-001811] 10 p1529 N84-20019
Diagnostic tools for mapping California EOR processes
[DE84-006232] 15 p2359 N84-25157

FLUID JET AMPLIFIERS
U FLUID AMPLIFIERS

FLUID JETS
NT AIR JETS
NT FREE JETS
NT GAS JETS
NT HYDRAULIC JETS
Comparison between measured and predicted performance of a high speed, free surface liquid jet flowing along a curved wall
[DE83-012728] 01 p0082 N84-10530
New investigation of short wings with lateral jets
[NASA-TM-77347] 06 p0782 N84-15124
Turbulence measurements in plane jets and plumes in crossflow
[PB84-105303] 08 p1160 N84-17554
Influence of surface tension and surface shear on final coat thickness in jet-stripped continuous coating of sheet materials
[AD-A136402] 09 p1314 N84-18586
Stability of the FMIT high speed, free surface liquid jet flowing along a curved wall
[DE84-003856] 10 p1494 N84-19767
Supercritical fluid chromatography/supersonic jet spectroscopy
[DE84-007364] 15 p2287 N84-24724
Supercritical and chromotography/supersonic jet spectroscopy
[DE84-012124] 21 p3360 N84-31312
A two-fluid instability
[DE84-012899] 22 p3595 N84-32764
Effect of physical properties on break-up and atomization of liquid jets in a supersonic crossflow
24 p3851 N84-34427

FLUID MANAGEMENT
Liquid management in low gravity using baffled rotating containers
[NASA-TP-2263] 06 p0634 N84-15427
On-orbit cryogenic fluid transfer
[NASA-TM-83688] 16 p2457 N84-25753

FLUID MECHANICS
NT AERODYNAMICS
NT AEROTHERMODYNAMICS
NT COMPUTATIONAL FLUID DYNAMICS
NT CYLINDRICAL PLASMAS
NT ELASTOHYDRODYNAMICS
NT ELECTROHYDRODYNAMICS
NT FLUID DYNAMICS
NT GAS DYNAMICS
NT HYDRODYNAMICS
NT HYDROMECHANICS
NT HYDROSTATICS
NT HYPERSONICS
NT INTERACTIONAL AERODYNAMICS
NT MAGNETOHYDRODYNAMICS
NT RAREFIED GAS DYNAMICS
NT ROTOR AERODYNAMICS
NT VORTEX SHEDDING
Prediction of erosive wear by solid particles in a turbulent curved-channel flow
[DE83-012896] 01 p0081 N84-10524
Electrohydrodynamics 01 p0089 N84-10578
Self excited oscillations in journal bearings
[AD-A130200] 01 p0090 N84-10585
A local existence and uniqueness theorem for a K-BKZ-fluid
[AD-A130503] 01 p0131 N84-10861
Aerodynamics of E-beam sustained discharges in flow
[AD-A130100] 01 p0141 N84-10926
Acoustic resonance in heat-exchanger tube banks
[DE83-011413] 02 p0219 N84-11436
Modeling of modification experiments involving neutral-gas release
[DE83-012785] 02 p0250 N84-11634
Applications of fluid mechanics to meteorology
[INPE-2839-PRE/386] 02 p0253 N84-11655
Special Course on Subsonic/Transonic Aerodynamic Interference for Aircraft
[AGARD-R-712] 03 p0317 N84-12072
Computational synergetics and innovation in wave, vortex, and plasma cloud dynamics
[DE83-015252] 03 p0445 N84-12928
On a viscometric flow of a simple fluid
[AD-A132652] 05 p0681 N84-14476
Numerical study of electromagnetic fluid turbulence
[DE84-002388] 05 p0750 N84-14923
Fluid thermodynamics
[ESA-TT-778] 06 p0845 N84-15512
Solvability of the leakage problem for the hydrodynamic Euler equations in Sobolev spaces
07 p1000 N84-16485
Transport and relaxation processes in supercritical fluids
[DE84-002182] 07 p1081 N84-17030
Thermocapillary flows and their stability: Effects of surface layers and combination
[NASA-CR-170982] 08 p1155 N84-17522
Fluid mechanical aspects of cell culture
[NASA-CR-171749] 09 p1360 N84-18886
Cochlear mechanics: Analysis for a pure tone
[AD-A136438] 09 p1386 N84-19055
NRL (Naval Research Laboratory) plasma formulary, revised
[AD-A135787] 09 p1391 N84-19066
On the stability of an infinite swept attachment line boundary layer
[NASA-CR-172300] 10 p1420 N84-19285
A high-speed data acquisition system for fluid mechanics measurements
[PB84-134592] 10 p1496 N84-19781
Steady viscous flow past a circular cylinder
10 p1560 N84-20223
Applied mathematics of transport theory
[DE84-004135] 10 p1590 N84-20422
Velocity visualization in gaseous flows
11 p1610 N84-20543
Numerical simulation of flame propagation in a closed vessel
[DE84-004959] 11 p1629 N84-20663
Numerical study of Kelvin-Helmholtz instability by the point vortex method
[DE84-006613] 11 p1654 N84-20797
Hamilton's principle as the basis for ocean circulation models
[AD-P002658] 11 p1690 N84-21023
Basic experimental study of the coupling between flow instabilities and incident sound
[NASA-CR-3789] 11 p1728 N84-21275
Validated Engineering Data Index, 1983 - 1984
12 p1804 N84-21758
Turbulence structures associated with the bursting event
[NASA-TM-85944] 12 p1815 N84-21831
Research in the field of fluid mechanics, with emphasis on non linear waves and diffraction of linear wave
[AD-A138378] 12 p1916 N84-22485
USSR report: Engineering and equipment
[JPRS-UEQ-84-004] 13 p1967 N84-22772
Central burst of simultaneously rotating and gravitating body 13 p1969 N84-22783
Vortex generating flow passage design for increased film-cooling effectiveness and surface coverage — aircraft engine blade cooling
[NASA-TM-83617] 13 p1989 N84-22909
On the stability of flight vehicles in the low Reynolds number non-linear regime
[AD-A140008] 15 p2258 N84-24561
Abstracts of the 20th Annual Meeting: Society of Engineering Science, Incorporated
[AD-A138155] 15 p2306 N84-24833
The status of the simple fluid
15 p2314 N84-24886
Gravitational instability of an interface between two second-order fluids 15 p2314 N84-24887
The 6th International Conference on Computing Methods in Applied Sciences and Engineering
[AD-A139824] 15 p2317 N84-24906
Numeric and fluid dynamic representation of tornadic double vortex thunderstorms
[NASA-CR-171023] 15 p2370 N84-25217
Jet flowfields 16 p2437 N84-25631
Effects of unsteady free stream velocity and free stream turbulence on stagnation point heat transfer
[NASA-CR-3804] 16 p2486 N84-25943
A semi-direct procedure using a local relaxation factor and its application to an internal flow problem
[NASA-TM-83704] 16 p2486 N84-25946
Digital Image Processing in Fluid Dynamics
[VKI-LS-1984-03] 16 p2490 N84-25973
Optical processing 16 p2490 N84-25975
Post-processing: Extracting and displaying useful information from digital images
16 p2491 N84-25977
The importance of dynamically-adaptive grids in the numerical solution of partial differential equations
16 p2492 N84-25984

Numerical and optical experiments on the Weissenberg effect
[DFVLR-FB-84-04] 16 p2493 N84-25992
Effective viscosity of a periodic suspension
[AD-A140483] 16 p2493 N84-25995
Three component velocity measurements using Fabry-Perot interferometer
[NASA-TM-83692] 16 p2495 N84-26010
USSR report: Engineering and equipment
[JPRS-UEQ-84-003] 17 p2640 N84-26895
A survey of gas-side fouling measuring devices
[NASA-CR-173734] 18 p2836 N84-28003
An investigation of the interaction of vortex rings and a laminar free jet flow
[MPIS-16/1983] 18 p2837 N84-28009
Methods of analyzing processes of plastic working of metal, part 2 19 p2990 N84-28950
Methods of analyzing processes of plastic working of metal, part 4 19 p2991 N84-28951
Nonlinear wave propagation
[AD-A141098] 19 p3004 N84-29038
Flow of a simple viscoelastic fluid in a thin lubricating oil
[ISSN-0208-5658] 19 p3019 N84-29145
SPAR improved structure-fluid dynamic analysis capability, phase 2
[NASA-CR-171078] 19 p3021 N84-29153
The Goertler vortex instability mechanism in three-dimensional boundary layers
[NASA-CR-172370] 19 p3021 N84-29158
Two-stage process for conversion of synthesis gas to high quality transportation fuels
[DE84-009624] 20 p3166 N84-30108
INFIL1D: A quasi-analytical model for simulating one-dimensional, constant flux infiltration
[DE84-008905] 20 p3187 N84-30250
Study of ebullated bed fluid dynamics
[DE84-010230] 20 p3187 N84-30251
Applied mathematics of transport theory
[DE84-011486] 20 p3282 N84-30838
Institutional supporting research highlights in physics and mathematics, fiscal year 1983
[DE84-011025] 20 p3284 N84-30855
CALTECH-DOE program on numerical analysis, computing and fundamental studies of motion, energy and mass transfer in fluids
[DE84-008935] 21 p3401 N84-31572
Investigation of the three-dimensional flow field within a transonic fan rotor: Experiment and analysis
[NASA-TM-83739] 22 p3531 N84-32357
Manipulation of the mixing process between streams of different velocity and temperature in the presence of pressure gradient
[AD-A143467] 22 p3593 N84-32757
Wind loading on solar concentrators: Some general considerations
[NASA-CR-173896] 22 p3616 N84-32915
A nomographic methodology for use in performance trade-off studies of parabolic dish solar power modules
[NASA-CR-173908] 22 p3617 N84-32918
The CMC/3DPNS computer program for prediction of three-dimension, subsonic, turbulent aerodynamic juncture region flow. Volume 2: Users' manual
[NASA-CR-165997] 23 p3746 N84-33749

FLUID POWER
Seawater hydraulics: Development and evaluation of an experimental diver tool system
[AD-A142032] 19 p3032 N84-29231

FLUID PRESSURE
NT WATER PRESSURE
Pressure letdown method and device for coal conversion systems
[NASA-CASE-NPO-15100-1] 05 p0698 N84-14583
A numerical technique in the hydrodynamic theory of foil bearings
[AD-P002966] 14 p2200 N84-24204
Fluid layer between infinite elastic plates. I: Mathematics and intensity vectors
[AD-A144373] 24 p3901 N84-34700

FLUID SWITCHING ELEMENTS
Magneto-optic garnet and liquid crystal optical switches 12 p1905 N84-22410

FLUID TRANSMISSION LINES
Dynamic characteristics of a jet engine test facility air supply
[AD-A136910] 10 p1433 N84-19365
Effects of mean flow on the dynamic characteristics of fluid transmission lines
[AD-A136959] 10 p1492 N84-19759
Practice; criteria; provisions; mathematical descriptions: Examples
[PUBL-310] 16 p2487 N84-25951

FLUID TRANSPIRATION
U TRANSPIRATION

FLUID-SOLID INTERACTIONS
Recent studies at NASA-Langley of vortical flows interacting with neighboring surfaces 03 p0322 N84-12109
Surface chemistry in the flotation of minerals 06 p0817 N84-15323
The effects of cylindrical surface modifications on turbulent boundary layers
[AD-A136296] 09 p1314 N84-18585
Approximation of compressible fluid in fluid-structure interaction problems
[CSIR-R/NIAST-15] 11 p1651 N84-20778

FLUIDIC CIRCUITS
NT FLIP-FLOPS

FLUIDICS
Fluidic generator to power rocket proximity fuze
[AD-A131062] 01 p0029 N84-10184
Fluidics: Basic components and applications
[AD-A134046] 05 p0679 N84-14465
Electrofluidic angular rate sensor for ejection seat thrust vector control
[AD-A133233] 06 p0784 N84-15137

FLUIDIZED BED PROCESSORS
Fluidized bed gasification of biomass to methane
[NASA-CASE-NPO-15903-1] 03 p0403 N84-12635
Fluidized-bed and salt-bath heat treating (AISI 4130 and 4340 alloy steels)
[DE84-000979] 04 p0502 N84-13290
Fluidized bed air-to-air heat pump evaporator evaluation
[AD-A133072] 05 p0681 N84-14479
Studies on the mechanics of rapidly flowing granular-fluid materials
[AD-A135463] 08 p1158 N84-17540
Long-term materials test program
[DE84-008899] 18 p2815 N84-27870
Preliminary study of a radiantly heated fluidized bed for the production of high purity silicon
[NASA-CR-173758] 19 p3050 N84-29352
Laboratory for Energy Related Health Research
[DE84-000529] 20 p3257 N84-30672
AFB/open cycle gas turbine conceptual design study
[NASA-CR-168135] 21 p3434 N84-31784
Adsorbent regenerator
[DE84-012969] 22 p3549 N84-32468

FLUIDS
Direct steam generation in line-focus solar collectors
[DE83-006030] 06 p0872 N84-15678
Theory of pulse propagation in fluid saturated porous layers
[DE84-002714] 07 p1003 N84-16503
Measurement of fast transient and steady state responses of viscoelastic fluids with a sliding cylinder rheometer executing coaxial displacements
[AD-A137996] 12 p1816 N84-21835
Pressure induced radial diffusion of a fluid through a thick walled highly elastic cylinder 15 p2313 N84-24881
On the breakdown of acceleration waves in radiative magneto-fluids 15 p2402 N84-25415
Note on the displacement effect in a spinning fluid
[AD-A141599] 19 p3024 N84-29175
Thermoacoustic couple
[DE84-011296] 20 p3291 N84-30895
Comparison between two Lysholm engines
[DE84-013696] 22 p3564 N84-32571

FLUORESCENCE
NT PHOSPHORESCENCE
NT RESONANCE FLUORESCENCE
NT X RAY FLUORESCENCE
A portable, microprocessor controlled, multichannel fluorometer for marine analysis
[AD-A130161] 01 p0083 N84-10542
Use of fiber optics and laser-induced fluorescence for remote measurements of UF6 in strong rotation
[DE83-014195] 01 p0088 N84-10575
Comparison of technologies for new energy-efficient lamps
[DE83-015949] 03 p0369 N84-12401
Chemiluminescence and laser induced fluorescence of boron atom reactions
[AD-A131709] 03 p0380 N84-12471
Laser-induced fluorescence spectroscopy for improved chemical analysis
[DE84-000629] 04 p0494 N84-13243
Laser-induced fluorescence line narrowing in atomic vapors
[DE83-018216] 04 p0541 N84-13558
Narrow-band, near-UV, high-repetition-rate laser-induced fluorescence system for use as an oge diagnostic in fusion machine
[DE84-000586] 04 p0542 N84-13567
Atomic-beam density determination from laser-induced fluorescence interval distributions
[DE84-000677] 04 p0542 N84-13571
Approach to single-molecule detection by laser-induced fluorescence
[DE84-001338] 04 p0542 N84-13572
Raman and fluorescent scattering by molecules embedded in small particles
[DE84-001278] 04 p0597 N84-13937
Intermolecular energy-transfer processes
[DE84-000334] 04 p0601 N84-13971
Instrumentation for remote sensing over fiber optics
[DE84-001788] 04 p0605 N84-13991
Dynamic aspects of the dye-sensitized photoconductivity of semiconductors
[DE84-001132] 04 p0615 N84-14059
High resolution ultraviolet laser spectroscopy of mercury and helium 06 p0800 N84-15214
Vacuum ultraviolet photofragmentation of H2O and NO2: Laboratory studies and atmospheric applications 06 p0876 N84-15703
Rapid identification of micro-organisms
[AD-A132831] 06 p0886 N84-15759
State-to-state unimolecular reaction dynamics
[DE84-003009] 06 p0916 N84-15952
Rotational temperature measurements in free jet expansions of N2 using the electron beam fluorescence technique 07 p0984 N84-16376
The cosmic ray energy spectrum from 2 x 10-17 to 10-e-19 EV 08 p1246 N84-18146
Photodegradation of coumarin laser dyes. An unexpected singlet self-quenching mechanism
[AD-A136339] 09 p1321 N84-18628
Solvent effects on emission yield and lifetime for coumarin laser dyes. Requirements for a rotatory decay mechanism
[AD-A136358] 09 p1321 N84-18629
Prospects for single-molecule detection in liquids by laser-induced fluorescence
[DE84-001702] 09 p1324 N84-18647
Atomic and molecular gas phase spectrometry
[AD-A135971] 09 p1392 N84-19088
Flowfield measurements in a model scramjet combustion using laser-induced iodine fluorescence
[NASA-CR-175399] 10 p1419 N84-19283
Fluorescent discharge lamp
[NASA-TM-77456] 10 p1485 N84-19706
Remote thermometry of moving surfaces by laser-induced fluorescence of surface-bonded phosphor
[DE84-004264] 10 p1498 N84-19792
Detailed kinetic studies of excited and/or transient species
[AD-A137278] 10 p1500 N84-19804
A high resolution solar atlas for fluorescence calculations
[NASA-CR-173386] 10 p1597 N84-20485
Velocity visualization in gaseous flows 11 p1610 N84-20543
Saturated laser fluorescence in turbulent sooting flames at high pressure 11 p1612 N84-20551
Comments on laser-excited fluorescence of the hydroxyl radical: Relaxation coefficients at atmospheric pressure, appendix 5
[NASA-CR-175442] 11 p1662 N84-20843
Shot noise limited detection of OH using the technique of laser induced fluorescence
[NASA-CR-175433] 11 p1662 N84-20844
The effect of excitation anisotropy in the laser-induced fluorescence spectroscopy of plasmas 11 p1735 N84-21319
Standard reference material containing 2.5 percent austenite (SRM 488)
[PB84-143296] 12 p1799 N84-21735
Spectroscopic investigations of materials for tunable infrared lasers
[AD-A136324] 12 p1821 N84-21869
Particulate models of photosynthesis
[DE84-003947] 12 p1863 N84-22142
Photogalvanic cells driven by electron transfer quenching of excited singlet states
[DE84-009099] 15 p2330 N84-24991
Optical measurements of fluctuating temperatures in a supersonic turbulent flow using one- and two-photon, laser-induced fluorescence
[NASA-TM-85949] 15 p2336 N84-25020
Containerless high temperature property measurements by atomic fluorescence
[NASA-CR-171038] 15 p2412 N84-25481
Fluorescent guests in thermotropic and chirality in lyotropic liquid crystals
[AD-A139985] 15 p2413 N84-25487
Numerical simulation of a three-dimensional chemical laser flow field including radiation produced by laser induced fluorescence 16 p2498 N84-26026
The 3.3 micron mapping of NGC 7027 16 p2571 N84-26499
Self-regulating galaxy formation. Part 1: HII disk and Lyman alpha pressure
[NASA-CR-173592] 16 p2577 N84-26535

Laser probes of propellant combustion chemistry
[AD-A140767] 17 p2628 N84-26814
Deactivation of higher vibrational levels of HF by F atoms
[AD-A140853] 17 p2673 N84-27034
Developments in open tubular liquid chromatography
[DE84-010585] 18 p2812 N84-27853
Electron excitation of vibrational states of D2 and H2 and detection of excited states by laser-induced fluorescence
[AD-A141038] 18 p2846 N84-28070
Supersonic molecular jet studies of Toluene-Helium and Toluene-Methane clusters
[AD-A141379] 19 p2988 N84-28931
Study of gas-surface interactions by laser-induced fluorescence detection
[AD-A141559] 19 p2988 N84-28933
Semiconductors investigated by time resolved Raman absorption and photoluminescence spectroscopy using femtosecond and picosecond laser techniques
[AD-A141381] 19 p3029 N84-29209
A radiative transfer model for remote sensing of laser induced fluorescence of phytoplankton in non-homogeneous turbid water
[NASA-CR-173777] 19 p3063 N84-29432
Diagnostics development for E-beam excited air channels: Optical studies of the PHERMEX electron beam
[AD-A142095] 19 p3101 N84-29701
Visualization for a free jet by a laser induced fluorescence method and its structure 20 p3169 N84-30120
Solid surface luminescence analysis
[DE84-011254] 20 p3310 N84-31022
Versatility of laser induced fluorescence line narrowing in chemical analysis
[DE84-012834] 21 p3380 N84-31316
Analysis of polynuclear aromatic hydrocarbons in particulate matter by luminescence techniques
[PB84-181662] 21 p3363 N84-31333
Disappearance rates of C2(a 3 Pi u) and C2(X 1 Sigma g +) with O2 over the temperature range 298-1300 deg K 21 p3373 N84-31405
Magnetic fluorescent lamp
[DE84-014231] 22 p3590 N84-32740
Chemical reactions, radiative and energy transfer processes of important atmospheric species
[AD-A143264] 22 p3653 N84-33156
Radiation pressure on atoms: Laser cooling and intense field effects
[AD-A143637] 23 p3754 N84-33793

FLUORESCENT EMISSION
U FLUORESCENCE

FLUORIDES
NT CADMIUM FLUORIDES
NT CALCIUM FLUORIDES
NT FLUORSPAR
NT HYDROFLUORIC ACID
NT LANTHANUM FLUORIDES
NT LITHIUM FLUORIDES
NT POLYVINYL FLUORIDE
NT STRONTIUM FLUORIDES
NT SULFUR FLUORIDES
NT URANIUM FLUORIDES

Evaluation of multicomponent fluoride glass candidates for double crucible drawn optical fiber
[AD-A131932] 03 p0441 N84-12693
Detailed kinetic studies of excited and/or transient species
[AD-A137278] 10 p1500 N84-19804
Foamable PVDF fluoroplastic for wire and cable applications 11 p1722 N84-21230
A feasibility study of the production of low loss IR fibers in space
[NASA-CR-173430] 14 p2225 N84-24351
Syntheses and characterization of novel graphite intercalation compounds with inorganic fluorides
[AD-A140801] 17 p2619 N84-26762
The effect of plasticizer on the polarizer of Poly(vinylidene fluoride) films
[AD-A140770] 17 p2626 N84-26806
Statistical-mechanical study of polyvinylidene fluoride
[AD-A143040] 21 p3370 N84-31383

FLUORINATION
Enhanced compressible fluids investigation
[AD-A131622] 02 p0216 N84-11426
Products of photodegradation for coumarin laser dyes
[AD-A136308] 09 p1320 N84-18624
Low temperature fluorination of aerosol suspensions of hydrocarbons utilizing elemental fluorine
[AD-A139958] 15 p2287 N84-24721

FLUORINE
Low temperature fluorination of aerosol suspensions of hydrocarbons utilizing elemental fluorine
[AD-A139958] 15 p2287 N84-24721
Dynamic resonances in the reaction of fluorine atoms with hydrogen molecules
[DE84-013240] 23 p3823 N84-34242
Study of the contributions of chemical and van der Waal forces to interaction between fluorine and Ar, Kr and Xe, using molecular beam scattering investigations of integral scattering cross sections
[MPIS-1/1984] 23 p3823 N84-34248

FLUORINE COMPOUNDS
NT CADMIUM FLUORIDES
NT CALCIUM FLUORIDES
NT CARBON TETRAFLUORIDE
NT FLUORIDES
NT FLUORITE
NT FLUORO COMPOUNDS
NT FLUOROAMINES
NT FLUOROCARBONS
NT FLUOROHYDROCARBONS
NT FLUOROPOLYMERS
NT FLUORSPAR
NT HYDROFLUORIC ACID
NT KEL-F
NT LANTHANUM FLUORIDES
NT LITHIUM FLUORIDES
NT PERFLUOROALKANE
NT POLYTETRAFLUOROETHYLENE
NT POLYVINYL FLUORIDE
NT STRONTIUM FLUORIDES
NT SULFUR FLUORIDES
NT URANIUM FLUORIDES

X-ray emission in heavy-ion collisions
[DE83-008776] 01 p0144 N84-10946
Synthetic and mechanistic studies in fluorine chemistry. New developments in organonitrogen fluorine chemistry
[AD-A132844] 05 p0650 N84-14274
Synthesis of polyamides from diamines of the fluorene series
[NASA-TM-77398] 10 p1451 N84-19476
Inorganic halogen oxidizers
[AD-A139127] 14 p2121 N84-23714

FLUORINE ORGANIC COMPOUNDS
NT CARBON TETRAFLUORIDE
NT FLUOROAMINES
NT FLUOROCARBONS
NT FLUOROHYDROCARBONS
NT FLUOROPOLYMERS
NT KEL-F
NT PERFLUOROALKANE
NT POLYVINYL FLUORIDE

FLUORITE
Energetics of oxygen ion transport in fluorite, perovskite and other oxide structures 11 p1740 N84-21354
Transport properties of fluorite oxides
11 p1740 N84-21355
A compilation of mineral occurrences and the relationship of occurrences to structural elements of the Kentucky and Tennessee region
[NASA-CR-175240] 18 p2878 N84-28275

FLUORO COMPOUNDS
NT CARBON TETRAFLUORIDE
NT FLUOROAMINES
NT FLUOROCARBONS
NT FLUOROHYDROCARBONS
NT FLUOROPOLYMERS
NT KEL-F
NT PERFLUOROALKANE
NT POLYTETRAFLUOROETHYLENE

Synthesis of perfluoroalkylene dianilines
[NASA-CR-168004] 02 p0189 N84-11228
Improved acid electrolytes for fuel cells
[PB84-179779] 16 p2519 N84-26173

FLUOROAMINES
Low wear partially fluorinated polyimides
[NASA-TM-83629] 15 p2301 N84-24808

FLUOROCARBONS
New fluorocarbon elastomers for seals for geothermal and other aggressive environments
[DE83-014424] 01 p0090 N84-10590
The infrared spectral analysis of CF/sub 2Cl/sub 2
[NASA-CR-173198] 07 p1075 N84-16985
Artificial blood substitutes 15 p2430 N84-25594
Utilization of selective mass transfer for increasing performance capability of hinges subject to heavy loads
17 p2641 N84-26898
Studies of new media radiation induced laser
[NASA-CR-173846] 21 p3408 N84-31616
Locating and estimating air emissions from sources of chloroform
[PB84-200617] 22 p3619 N84-32935
Multi-(OTeF5)-substituted fluorocarbons
[AD-D011171] 23 p3751 N84-33778

FLUOROHYDROCARBONS
NT CARBON TETRAFLUORIDE

Multi-(OTeF5)-substituted fluorocarbons
[AD-D011171] 23 p3751 N84-33778

FLUOROMICA
U MICA

FLUOROPOLYMERS
NT POLYTETRAFLUOROETHYLENE
NT POLYVINYL FLUORIDE
NT TEFLON (TRADEMARK)

The development and study of sensitive and process-compatible polymers for X-ray lithography
[BMFT-FB-T-83-122] 02 p0202 N84-11314
Luminescence probe studies of nafion polyelectrolytes
[AD-A133519] 06 p0801 N84-15224
Fluoroalkyl siloxanes as liquid-repellent fabric finishes. Part 3: The durability of the copolymers and comparisons with commercially available finishes
[AD-A136662] 10 p1467 N84-19579
Equipment and design changes in extrusion of foamed fluoropolymer resins 11 p1721 N84-21229
Fuel fire tests of polytetra-fluoroethylene anti-exposure suits
[AD-A140038] 15 p2385 N84-25303
Fluoroepoxy and fluoroacrylic transparencies
[AD-P003201] 17 p2592 N84-26614
Fluorothermoplastics for long life, weatherproof composites
[BMFT-FB-T-84-082] 20 p3164 N84-30096

FLUOROSCOPY
Non-invasive methods of cardiovascular exploration in aerospace medicine
[AGARD-AG-277(E)] 11 p1699 N84-21082
Contribution of standard X-ray to cardiovascular exploration during the clinical examination of flying personnel 11 p1700 N84-21088

FLUORSPAR
Fluorspar 19 p3053 N84-29375

FLUTING
U GROOVING

FLUTTER
NT PANEL FLUTTER
NT SUBSONIC FLUTTER
NT SUPERSONIC FLUTTER
NT TRANSONIC FLUTTER

Influence of main design parameters on flutter behaviour for aircraft configurations with heavy concentrated masses 02 p0170 N84-11122
The development of FAST-FLOW (a program for flutter optimization to satisfy multiple flutter requirements)
02 p0171 N84-11124
Aeroelastic considerations in preliminary design of a military combat aircraft 02 p0172 N84-11132
Preliminary design of aircraft using structural optimization methods 02 p0172 N84-11133
A flutter optimization program for complete aircraft structural design 02 p0172 N84-11134
Fast flutter clearance by parameter variation
02 p0172 N84-11135
Development and flight test of an active flutter suppression system for the F-4F with stores. Part 3. Flight demonstration of the active flutter suppression system
[AD-A131972] 03 p0337 N84-12191
NASTRAN flutter analysis of advanced turbopropellers
[NASA-CR-167926] 05 p0631 N84-14148
Suppression of interference flutter by composite tailoring 05 p0632 N84-14155
Aeroelastic analysis of a Darrieus type wind turbine blade with troposkien geometry 06 p0863 N84-15623
Measurement of unsteady aerodynamic pressures
[DFVLR-MITT-83-08] 07 p0949 N84-16155
Optimal mistuning for enhanced aeroelastic stability of transonic fans
[NASA-CR-173179] 07 p0953 N84-16180
Flutter of swept fan blades
[NASA-TM-83547] 07 p1015 N84-16587
Formulation of blade-flutter spectral analyses in stationary reference frame
[NASA-TP-2296] 11 p1614 N84-20562
Experiences with the design and implementation of flutter suppression systems 11 p1619 N84-20593
Recent developments in the measurement of time-dependent pressures 14 p2100 N84-23601
Vibration and flutter of mistuned bladed-disk assemblies
[NASA-TM-83634] 14 p2157 N84-23923
An aeroelastician's perspective of wind tunnel and flight experiences with active control of structural response and stability
[NASA-TM-85761] 14 p2157 N84-23924
Active suppression of aeroelastic instabilities for forward swept wings 16 p2438 N84-25638
Unsteady Flow in Turbomachines, volume 2
[VKI-LS-1984-02-VOL-2] 16 p2489 N84-25965
Friction damping of flutter in gas turbine engines
17 p2609 N84-26701
STABCAR: A program for finding characteristic root systems having transcendental stability matrices
[NASA-TP-2165] 17 p2751 N84-27461

KC-135 Winglet Program Review
[NASA-CP-2211] 18 p2787 N84-27686
KC-135A winglet flight flutter program
18 p2788 N84-27692
Aerodynamic instability of cable-stayed bridges: Theoretical experimental study of stall flutter
18 p2789 N84-27700
Integrated Application of Active Controls (IAAC) technology to an advanced subsonic transport project: Wing planform study and final configuration selection
[NASA-CR-3468] 18 p2792 N84-27720
Control theory of partial differential equations
[AD-A140945] 18 p2924 N84-28541
Active suppression of aeroelastic instabilities for forward swept wings
[AD-A141739] 19 p2964 N84-28783
Design of a candidate flutter suppression control law for DAST ARW-2
[NASA-TM-86257] 20 p3131 N84-29883
Application of advanced parameter identification methods for flight flutter data analysis with comparisons to current techniques 24 p3848 N84-34401
Active suppression of aeroelastic instabilities on a forward swept wing using a linear optimal regulator
[AD-A144561] 24 p3854 N84-34442

FLUTTER ANALYSIS
Aerospatiale's approach to the study of flutter at the design stage of the project 02 p0170 N84-11118
Estimated analysis of the aeroelastic behavior of tail rotors 02 p0172 N84-11129
Aeroelasticity and optimization at the design stage
02 p0172 N84-11131
Development and flight test of an active flutter suppression system for the F-4F with stores. Part 2: Ground tests and subcritical flight tests
[AD-A131402] 02 p0178 N84-11163
Aeroelastic analysis for propellers - mathematical formulations and program user's manual
[NASA-CR-3729] 03 p0388 N84-12530
NASTRAN documentation for flutter analysis of advanced turbopropellers
[NASA-CR-167927] 06 p0790 N84-15153
Flutter of swept fan blades
[NASA-TM-83547] 07 p1015 N84-16587
Aeroelastic analysis using nonlinear aerodynamic methods
[AD-A135133] 08 p1099 N84-17146
Generalization of the subsonic kernel function in the s-plane, with applications to flutter analysis
[NASA-TP-2292] 11 p1600 N84-20480
Real-time flutter analysis
[NASA-CR-170412] 11 p1605 N84-20512
Body-freedom flutter of a 1/2-scale forward-swept-wing model, an experimental and analytical study
[NASA-CR-172324] 12 p1771 N84-21553
Calculation of apparent masses in blade ring
13 p1971 N84-22793
Flutter and forced response of mistuned rotors using standing wave analysis
[NASA-CR-173555] 15 p2262 N84-24586
Experience with transonic unsteady aerodynamic calculations
[NASA-TM-86278] 22 p3530 N84-32353
Model mount system for testing flutter
[NASA-CASE-LAR-12950-1] 24 p3856 N84-34448

FLUX
Computer design and optimization of the active rotary flux compressor
[DE84-010089] 19 p3030 N84-29215

FLUX (RATE PER UNIT AREA)
U FLUX DENSITY

FLUX (RATE)
NT HEAT FLUX
NT MAGNETIC FLUX
NT SOLAR FLUX
Conceptual design of the high-flux VTA-2 test assembly for FMIT
[DE83-017022] 03 p0446 N84-12935
Evidence for a hot electron flux limit in laser-produced plasma experiments
[DE84-001365] 04 p0540 N84-13555
X-ray sensor development for magnetospheric research
[NASA-CR-173172] 07 p1006 N84-16525
Optimized rotary flux compressors for powering laser flashlamps
[DE84-002794] 07 p1010 N84-16555
Performance of the intense pulsed neutron source accelerator system
[DE84-003607] 07 p1072 N84-16966
Turbulent exchange of carbon dioxide, water vapor, heat and momentum over crop surfaces
10 p1538 N84-20079
Cosmic ray exposure ages of iron meteorites, complex irradiation and the constancy of cosmic ray flux in the past 11 p1755 N84-21455
On the rate of energy input in thermal solar flares
[AD-A138345] 13 p2092 N84-23548
Magnetically enhanced hydrogen gas dissociator: A progress report 16 p2479 N84-25892
Measurement of flux density of sound energy
17 p2638 N84-26874
Apparatus for measuring charged particle beam
[NASA-CASE-MFS-25641-1] 18 p2929 N84-28575
Energy-resolving carbon resistance probes for plasma edge characterization
[DE84-012235] 20 p3306 N84-30997
Solar flares and magnetospheric particles: Investigations based upon the ONR-602 experiment
[AD-A143144] 21 p3526 N84-32336
Pulse driver for flux gate magnetometer
[AD-D011053] 22 p3596 N84-32774
The study of the dynamics of the electron fluxes and spectra during solar minimum 24 p3994 N84-35276
Two large decreases of cosmic ray intensity in August and September, 1979 24 p3994 N84-35278
Spatial fluctuations in the diffuse cosmic X-ray background
[NASA-TM-85029] 24 p3994 N84-35281

FLUX DENSITY
NT CURRENT DENSITY
NT ELECTRON FLUX DENSITY
NT ILLUMINANCE
NT IRRADIANCE
NT LUMINANCE
NT LUMINOUS INTENSITY
NT NEUTRON FLUX DENSITY
NT RADIANCE
NT RADIANT FLUX DENSITY
NT SOLAR CONSTANT
NT SOLAR FLUX DENSITY
NT SOUND INTENSITY
NT ZERO SOUND
Application of advanced materials to rotating machines 01 p0010 N84-10083
Effects of solvent and supporting electrolyte on the electrochemical reduction of sulfur dioxide
[DE83-013436] 01 p0038 N84-10241
Research, development and demonstration of nickel-iron batteries for electric-vehicle propulsion
[DE83-015755] 01 p0073 N84-10479
High-specific-energy composite-material flywheel
[DE83-012943] 01 p0090 N84-10586
Assessment of potential for batteries in space applications 03 p0346 N84-12246
Some comments on longevity by a technologist
03 p0346 N84-12247
Quark-gluon plasma formation
[DE83-017742] 03 p0436 N84-12861
Maintenance free lead acid battery with high cycle life and a new type of grid
[BMFT-FB-T-83-156] 05 p0677 N84-14453
An investigation of cascade energy density effects using classical trajectory simulations of sputtering by molecular ions
[AD-A132539] 05 p0743 N84-14880
The October 1963 recurrence of the outburst of the Orion water maser source and its past history
[INPE-2965-PRE/444] 07 p1088 N84-17076
Development of low cost amorphous materials with high saturation flux density
[BMFT-FB-T-83-213] 10 p1463 N84-19558
Quasars and galaxies with active nuclei
10 p1594 N84-20448
Solar flares: An extreme of reconnection
[DE84-004413] 10 p1597 N84-20467
A pseudo-elastic material damage model involving local stiffness change and crack growth
11 p1667 N84-20873
A comment on atomic processes relevant to alpha particle diagnostics 11 p1736 N84-21323
Nimbus-Earth radiation budget instrument analysis
[NASA-CR-172318] 14 p2175 N84-24029
Energetic electrons in impulsive solar flares
[NASA-TM-86102] 14 p2251 N84-24519
Catalogue of stellar ultraviolet fluxes. A compilation of absolute stellar fluxes measured by the Sky Survey Telescope (S2/68) aboard the ESRO satellite TD-1
15 p2423 N84-25558
Measurement of flux density of sound energy
17 p2638 N84-26874
Applications of satellite observations to the radiation budget, fluxes and the general circulation
[PB83-256818] 17 p2735 N84-27383
Topics in quantum field theory and cosmology
17 p2769 N84-27583
Apparatus for measuring charged particle beam
[NASA-CASE-MFS-25641-1] 18 p2929 N84-28575
Development of a lightweight nickel electrode
[NASA-TM-86861] 20 p3234 N84-30528
Instability of collapsing cylindrical shell during magnetic energy density 20 p3267 N84-30672
Diffusion transfer during near-sonic turbulence
21 p3486 N84-32090
Bremsstrahlung from longitudinal plasma waves produced by subthermal electrons in plasma
21 p3488 N84-32102
Linear polarization and total flux density of silicon monoxide masers and active extragalactic objects at millimeter wavelengths 21 p3522 N84-32314

FLUX MAPPING
U FLUX DENSITY
U MAPPING

FLUXES
The preparation of BP single crystals by high pressure flux method
[NASA-TM-77389] 10 p1587 N84-20403

FLUXMETERS
U MAGNETIC MEASUREMENT
U MEASURING INSTRUMENTS

FLY ASH
The performance of civil airport pavement with lime-cement-flyash base course
[FAA-PM-84-10] 19 p2969 N84-28815
Laboratory for Energy Related Health Research
[DE84-000529] 20 p3257 N84-30672

FLY BY WIRE CONTROL
The impact of the F/A-18 aircraft digital flight control system and displays on flight testing and safety
06 p0777 N84-15091
Lessons learned in the development of the F-16 flight control system 06 p0777 N84-15092
The MIRAGE 2000: Fly by wire control and safety
06 p0777 N84-15093
Certification experience of the Jaguar fly-by-wire demonstrator aircraft integrated flight control system
06 p0777 N84-15095
Control definition study for advanced vehicles
[NASA-CR-3738] 07 p0958 N84-16212
Survivability design guidelines for Fly-By-Wire Flight Control Systems development
[AD-A138211] 12 p1772 N84-21557
Technology review of flight crucial flight controls
[NASA-CR-172332] 13 p1934 N84-22583
Application of JOVIAL (J-73) to digital flight controls
[AD-P003525] 21 p3330 N84-31129

FLYBY MISSIONS
NT GIOTTO MISSION
Galilean satellites: Observations, ephemerides and theories 19 p3120 N84-29629
Voyager: Perils of advanced planning, 1960 - 1967
24 p3991 N84-35252

FLYING
U FLIGHT

FLYING BEDSTEAD AIRCRAFT
U FLYING PLATFORMS

FLYING EJECTION SEATS
Protection equipment against high velocity ejections — pilot ejection
[STPA/CIN-6] 18 p2790 N84-27705

FLYING PERSONNEL
NT AIRCRAFT PILOTS
NT ASTRONAUTS
NT COSMONAUTS
NT FLIGHT CREWS
NT ORBITAL WORKERS
NT PILOTS (PERSONNEL)
NT SPACECREWS
Experimental psychological methods used in expert evaluation of mental work capacity of flight personnel in the presence of functional disturbances and central nervous system diseases 02 p0261 N84-11712
A method of assessing cardiac function with bicycle ergometry in expert medical certification of pilots
02 p0262 N84-11716

FLYING PLATFORM STABILITY
U AERODYNAMIC STABILITY
U FLYING PLATFORMS

FLYING PLATFORMS
Orbiting geophysics laboratory experiment
[AD-A131950] 03 p0342 N84-12218
High altitude aerodynamic platform concept evaluation and prototype engine testing
[NASA-TM-58256] 07 p0953 N84-16182
Structural sizing of a solar powered aircraft
[NASA-CR-172313] 16 p2448 N84-25702
Shuttle detached spacecraft
[AD-A143320] 22 p3541 N84-32417

FLYING QUALITIES
U FLIGHT CHARACTERISTICS

FLYWHEELS
High-specific-energy composite-material flywheel
[DE83-012943] 01 p0090 N84-10586
Design and fabrication of a fiberglass circular-weave composite flywheel
[DE83-013406] 01 p0090 N84-10589
Integrated Flywheel Technology, 1983
[NASA-CP-2290] 03 p0343 N84-12228

Integrated Power/Attitude Control System (IPACS)
03 p0344 N84-12229
GSFC flywheel status 03 p0344 N84-12230
Overview of state-of-the-art flywheel technology
03 p0344 N84-12231
Electrical power trade-offs 03 p0344 N84-12232
Space station energy sizing 03 p0344 N84-12233
The Boeing flywheel study 03 p0344 N84-12235
Space station control requirements and flywheel system weights for combined momentum and energy storage
03 p0344 N84-12236
Combined attitude control and energy storage
03 p0345 N84-12237
IPACS attitude control technology considerations
03 p0345 N84-12238
Flywheel electronics 03 p0345 N84-12239
Advanced Control and Power System (ACAPS) technology program 03 p0345 N84-12243
Power system considerations and test activities
03 p0345 N84-12244
Some comments on longevity by a technologist
03 p0346 N84-12247
New developments in composite-flywheel containment
[DE83-012583] 03 p0383 N84-12497
Flywheel rotor and containment technology development, FY83
[DE83-017615] 04 p0545 N84-13589
Flywheel energy-management systems for improving fuel economy of motor vehicles
[DE84-002340] 06 p0674 N84-15688
Kinetic energy accumulator applications to electric vehicles
[SNIAS-831-422-101] 07 p1068 N84-17074
Characterization of fiber composite flywheels by ultrasonic imaging techniques
[DE84-004689] 10 p1452 N84-19487
Composite ring-disk flywheel design, fabrication and testing
[DE84-004761] 10 p1453 N84-19488
Remote thermometry of moving surfaces by laser-induced fluorescence of surface-bonded phosphor
[DE84-004264] 10 p1498 N84-19792
Flywheel rotor and containment technology development
[DE84-005742] 11 p1665 N84-20864
Study of flywheel energy storage for space stations
[NASA-CR-171780] 13 p2009 N84-23026
Integrable equations of motion by inertia for two bodies coupled through spherical hinge
17 p2650 N84-26946
Bi-directional control system for energy flow in a solar powered flywheel
[NASA-CASE-MFS-25978-1] 22 p3616 N84-32913
Inertial energy storage for spacecraft
23 p3735 N84-33669
Control methodologies for large space structures
[NASA-CR-173987] 24 p3861 N84-34467

FOAMING
Lubricant foaming and aeration study, part 1
[AD-A141298] 18 p2819 N84-27896

FOAMS
NT METAL FOAMS
Cryogenic insulation strength and bond tester
[NASA-CASE-MFS-25910-1] 02 p0199 N84-11297
A torsion testing machine for measurement of shear strength of foam
[AD-A133027] 05 p0693 N84-14552
Surface chemistry in the flotation of minerals
06 p0817 N84-15323
Partial analysis of Insta-Foam
06 p0928 N84-16030
Electrostatic safety with explosion suppressant foams
[AD-A137503] 10 p1424 N84-19314
Transient horizontal flame spread tests on cellular plastics - experimental results, volume 1
[PB84-135458] 10 p1469 N84-19595
Development of a pressurized anti-exposure barrier system
[AD-A137130] 10 p1553 N84-20178
Evaluation of propellant tank insulation concepts for low-thrust chemical propulsion systems: Executive summary
[NASA-CR-168321] 11 p1636 N84-20699
Equipment and design changes in extrusion of foamed fluoropolymer resins 11 p1721 N84-21229
Foamable PVDF fluoroplastic for wire and cable applications 11 p1722 N84-21230
Evaluation of foam-skin cables for aerial applications
11 p1725 N84-21252
Stress relaxation of cellular silicone material, 1983
[DE84-007103] 12 p1802 N84-21749
The cleaning of ECCOSORB AN foam
[ESA-PSS-01-727-ISSUE-1] 16 p2473 N84-25849
Deformation and fracture maps for polymer-foams, solid polymers and polymer-composites
[AD-A141197] 18 p2818 N84-27893
Evaluation of 95 gpm inductors for aqueous film forming foam
[AD-A141242] 18 p2818 N84-27894
Lubricant foaming and aeration study, part 1
[AD-A141298] 18 p2819 N84-27896
Flow of foam through porous media
[DE84-012410] 20 p3186 N84-30246
Rigid closed-cell polyimide foams for aircraft applications and foam-in-place technology
[NASA-CR-171805] 22 p3559 N84-32535
High temperature adhesive silicone foam composition, foam generating system and method of generating foam
[DE84-014315] 23 p3725 N84-33605
Impacting device for testing insulation
[NASA-CASE-MFS-25862-2] 23 p3756 N84-33807

FOCI
NT PLASMA FOCUS
Determining parameters of radiating focus from amplitude spectra of body waves
17 p2704 N84-27222

FOCUSING
NT DEFOCUSING
NT SELF FOCUSING
Design of doubly focusing, tunable (5 - 30 keV), wide-bandpass optics made from layered synthetic microstructures
[DE83-015492] 03 p0441 N84-12897
Light-ion-beam fusion
[DE83-018263] 03 p0448 N84-12944
Proto-I axial-focusing experiments
[DE84-000458] 04 p0599 N84-13951
Grad-B drift transport of high current electron beams
[DE84-000115] 04 p0602 N84-13977
Colliding-beam-accelerator lattice
[DE83-017875] 04 p0614 N84-14050
Focusing X-ray monochromator for EXAFS studies in the energy range 4-30 keV
[DE84-001903] 05 p0685 N84-14505
A general measurement design philosophy for the Kalman filter estimation with special application given to the imaging radar autofocus update
[AD-A133895] 05 p0734 N84-14819
Implementation of automatic focusing algorithms for a computer vision system with camera control
[AD-A133492] 06 p0894 N84-15807
Concept study phase A2 for the solar spectrograph PETRA
[BMFT-FB-W-83-014] 07 p1008 N84-16540
Focusing the parabolic antenna
[NASA-CR-173304] 08 p1173 N84-17642
Accuracy in folding mirror mechanism displacement law — Space Telescope 09 p1295 N84-18464
Sun focusing by satellite antenna reflectors
10 p1445 N84-19439
Calculation of two-dimensional focusing factor distribution due to specular flux transfer between general curves 10 p1448 N84-19459
JPL tests of a LaJet concentrator facet
[NASA-CR-173470] 12 p1841 N84-22004
Study on the influence of X-ray focus on the image quality in radiological systems 17 p2764 N84-27555
Calculation of ballistic focusing of ion beams
[DE84-012870] 20 p3297 N84-30934
Transverse field focused system
[DE84-011070] 20 p3298 N84-30942
Generation and application of finely focused low energy electron beams 21 p3492 N84-32129
Focusing twist reflector for electron-cyclotron resonance heating in the Tandem Mirror Experiment-upgrade
[DE84-012954] 22 p3578 N84-32663
Increasing fusion efficiency in laser welding with dynamic beam focusing 23 p3710 N84-33516

FOETUSES
U FETUSES

FOG
Data analysis of the LLNL hydrogen igniter experiments
[DE83-010260] 01 p0037 N84-10236
Forward multiple scattering corrections as function of detector field of view
[AD-A130631] 01 p0106 N84-10686
Further developments of the A. R. A. P. model for the atmospheric marine environment
[AD-A129862] 01 p0107 N84-10696
Focused acoustical and optical backscattering from spheres and properties of optoacoustic sources
[AD-A133744] 05 p0747 N84-14904
The calculated performance of some radar and transmissometer systems in rain and fog at 35, 94, 140 and 240 GHz, volume 1
[AD-A133587] 06 p0625 N84-15380
An evaluation of marine fog forecast concepts and a preliminary design for a marine obscuration forecast system
[AD-A136379] 09 p1348 N84-18808
The feasibility of using precursor aerosol parameters to predict visibility in fog and haze
[AD-A137141] 10 p1539 N84-20084
The role of vegetation in the low-level water budget in fog
[AD-A139099] 14 p2179 N84-24051
Diurnal and annual variation of climatic elements in Finland
[T-551.583.13(480)] 18 p2883 N84-28294
Electro-optical transmission and liquid water content of fogs and clouds
[AD-A142294] 20 p3245 N84-30597
Panama Canal Fog Navigation Study: Candidate system definition
[PB84-180793] 20 p3249 N84-30624
Panama Canal Fog Navigation Study: System requirements statement
[PB84-179811] 20 p3249 N84-30625
Warm fog dissipation using large volume water sprays
[NASA-CASE-MFS-25962-1] 22 p3538 N84-32398
Handbook of geophysics and space environments. Chapter 16: Water vapor, precipitation, clouds and fog, revised
[AD-A144176] 24 p3934 N84-34901

FOIL BEARINGS
Bending fatigue of electron-beam-welded foils. Application to a hydrodynamic air bearing in the Chrysler/DOE upgraded automotive gas turbine engine
[NASA-TM-83539] 07 p1016 N84-16589
Durable solid lubricant coatings for foil gas bearings to 315 deg C
[NASA-TM-83596] 10 p1465 N84-19567
A numerical technique in the hydrodynamic theory of foil bearings
[AD-P002966] 14 p2200 N84-24204

FOILS
Particle-velocity measurements of laser-induced shock waves using ORVIS
[DE83-016503] 02 p0228 N84-11494

FOILS (MATERIALS)
NT METAL FOILS
Technology of thin silicon foils in respect to the fabrication of monolithic integrated sensors
[BMFT-FB-T-83-089] 02 p0206 N84-11347
The transient response of circular foil heat-flux gages
[DE83-017785] 04 p0538 N84-13541
Chemical vapor deposition of oriented tungsten foils for thermionic cathodes
[AD-A132379] 04 p0612 N84-14040
Application of the density matrix multipole expansion to stark quantum beats from beam-foil-excited hydrogen atoms
[AD-A133603] 06 p0797 N84-15193
Surface compatibility studies of potassium perchlorate reaction with pyrotechnic fuels
[DE84-002829] 08 p1140 N84-17412
On the mechanical and thermoelectric behavior of composition modulated foils 11 p1666 N84-20870
Aluminum foil shield effectiveness for electronic cables 11 p1719 N84-21215
Observation of Rayleigh-Taylor-Like structures in a laser-accelerated foil
[AD-A140294] 16 p2556 N84-26399
Thin film models of SMSI (Show Strong Metal-Support Interactions) catalysts: Pt on oxidized titanium
[AD-A140569] 17 p2767 N84-27572
Silicon foils growth by interface-controlled crystallization 18 p2937 N84-28626

FOKKER BOND TESTERS
U ADHESION TESTS

FOKKER-PLANCK EQUATION
Heat conduction process in Tokamak hot-ion plasmas
[DE83-014884] 01 p0150 N84-10987
Application of the Green's function method to some nonlinear problems of an electron storage ring. Part 1. The Green's function for the Fokker-Planck equation
[DE83-014829] 02 p0262 N84-11850
New soluble approximation to Fokker-Planck equations
[DE83-016210] 03 p0426 N84-12791
Fokker-Planck equation in mirror research
[DE83-016568] 03 p0446 N84-12932
Computational physics program at National MFE Computer Center
[DE84-004602] 10 p1574 N84-20318
Sloshing-ion equilibria in the TARA endplugs
[DE84-003360] 11 p1738 N84-21337
Stochastic dynamical systems with a cyclic structure
[MC-TW-247/83] 13 p2037 N84-23214
Fluctuations in optical bistability: Experiment with shot noise 14 p2232 N84-24392
The orientation distribution on nonspherical aerosol particles within a cloud
[AD-A140470] 16 p2526 N84-26216

A hybrid N-body/Fokker-Planck stellar dynamical code with application to late core collapse in globular clusters
17 p2775 N84-27620
The exit problem for a stochastic dynamical system in a domain with almost everywhere characteristic boundaries
[CWI-AM-R8403] 19 p3092 N84-29635
Lower hybrid experiments at the 1 MW level on Alcator C: Heating and current drive
[DE84-010586] 20 p3304 N84-30981
Realistic modelling of lower hybrid current drive with multiple codes
[DE84-010576] 20 p3304 N84-30982
Radiation pressure on atoms: Laser cooling and intense field effects
[AD-A143837] 23 p3754 N84-33793
Representation of the Fokker-Plank collision term for Coulomb interaction as series of Legendre polynomials
[INPE-3232-PRE/582] 24 p3949 N84-35006

FOLDING
Accuracy in folding mirror mechanism displacement law — Space Telescope 09 p1295 N84-18464
The crimping of high-reliability electrical connections
[ESA-PSS-01-726-ISSUE-1] 16 p2485 N84-25937

FOLDING STRUCTURES
Self-locking telescoping manipulator arm
[NASA-CASE-MFS-25906-1] 02 p0269 N84-11761
Synchronously deployable truss structure
[NASA-CASE-LAR-13117-1] 07 p0964 N84-16250
Low concentration ratio solar array structural configuration 08 p1111 N84-17225
Latching mechanism for deployable-restowable columns
[NASA-CASE-LAR-13169-1] 15 p2343 N84-25063
The 18th Aerospace Mechanisms Symposium
[NASA-CP-2311] 15 p2346 N84-25078
Design and operation of a deployable truss structure
15 p2347 N84-25082
Evolution from a hinge actuator mechanism to an antenna deployment mechanism for use on the European large communications satellite (L-SAT/OLYMPUS)
15 p2347 N84-25084
The design and development of two-failure tolerant mechanisms for the Spaceborne Imaging Radar (SIR-B) antenna 15 p2348 N84-25087
Protective telescoping shield for solar concentrator
[NASA-CASE-NPO-16236-1] 15 p2361 N84-25164
Foldable self-erecting joint — space erectable structures
[NASA-CASE-MSC-20635-1] 22 p3542 N84-32424
Ground test article for deployable space structure systems
[NASA-CR-171158] 24 p3858 N84-34457

FOLDS (GEOLOGY)
National and international geoscience maps
19 p3038 N84-29271
Forms of large folds in the Central Appalachians, Pennsylvania 23 p3795 N84-34066

FOOD
Satellite activities of NOAA (National Environmental Satellite Data and Information Service) 1982
[PB83-252510] 04 p0568 N84-13747
Food preservation with gas 11 p1640 N84-20719
The management of atmospheric resources in food production
[INPE-3121-PRE/514] 16 p2528 N84-26231

FOOD CHAIN
Activities in applied systems analysis
21 p3475 N84-32026

FOOD INTAKE
Metabolism and nutritional status in emergency situations without food supply or on a low-calorie diet
07 p1046 N84-16781

FOOD PROCESSING
NT PRESERVING
Food preservation with gas 11 p1640 N84-20719
Microbiology and food program
22 p3629 N84-32999
Workshop on Systems Analysis
[PB84-194661] 22 p3650 N84-33138
A method for producing nutritionally dense freeze dried food bars
[AD-D011052] 23 p3811 N84-34166

FORBIDDEN BANDS
Polyacetylene and K 24 p3868 N84-34511

FORBIDDEN TRANSITIONS
Theoretical studies of atomic transitions
[DE84-002628] 07 p1073 N84-16970
A numerical study of artificial electron aurora experiments
[ISAS-611] 20 p3240 N84-30568
Influence of exciton movement in magnetic field on luminescence. Indirect forbidden transitions in Ge
21 p3485 N84-32083

FORBUSH DECREASES
Interplanetary perturbations associated with type 4 solar flares
[IFSI-82-6] 03 p0475 N84-13129
About the profile of cosmic ray intensity increase prior to Forbush-decrease 24 p3994 N84-35279
Large scale solar modulation of 500 MeV/N galactic cosmic rays seen from 1-30 AU
[NASA-CR-173993] 24 p3995 N84-35283

FORBUSH EFFECT
U FORBUSH DECREASES

FORCE
Comparison of the force scale up to 1 MN between the Physikalisch-Technischen Bundesanstalt (PTB), West Germany and the Technical Research Centre of Finland (VTT)
[VTT-229] 15 p2336 N84-25021

FORCE DISTRIBUTION
Middle latitude forcing of a model tropical atmosphere with horizontally nonuniform basic states
06 p0880 N84-15724

FORCE FIELDS
U FIELD THEORY (PHYSICS)

FORCE-FREE MAGNETIC FIELDS
Solar flares: An extreme of reconnection
[DE84-004413] 10 p1597 N84-20467

FORCED CONVECTION
Mixed convection and stratification phenomena in liquid metals 06 p0842 N84-15488
Thermohydraulics in liquid metals
06 p0842 N84-15491
Liquid metal experimental facilities — fast breeder reactors 06 p0842 N84-15492
Critical heat flux in forced convection boiling of Freon in a tube at high subcritical pressure: In the case of vapor-liquid mixture at inlet 07 p0964 N84-16373
Forced convection heat transfer to air/water vapor mixtures
[NASA-CR-3769] 07 p1000 N84-16488
Engineering correlations of variable-property effects on laminar forced convection mass transfer for dilute vapor species and small particles in air
[NASA-CR-168322] 09 p1313 N84-18578
Numerical study of heat transfer in turbulent shear flow
[DE84-005106] 11 p1655 N84-20602
Multiple buoyancy driven flows in a vertical cylinder heated from below
[NASA-CR-173826] 17 p2666 N84-27001
Retrieval of thermal and microphysical variables in observed convective storms 23 p3799 N84-34089

FORCED OSCILLATION
U FORCED VIBRATION

FORCED VIBRATION
Forced vibration analysis of rotating cyclic structures in NASTRAN
[NASA-CR-165429] 02 p0231 N84-11514
Finite element forced vibration analysis of rotating cyclic structures
[NASA-CR-165430] 02 p0231 N84-11515
Analytical and experimental investigation of rotating blade response due to nozzle passing frequency excitation 10 p1515 N84-19917
Vibration and flutter of mistuned bladed-disk assemblies
[NASA-TM-83634] 14 p2157 N84-23923
Flutter and forced response of mistuned rotors using standing wave analysis
[NASA-CR-173555] 15 p2282 N84-24586
NASTRAN forced vibration analysis of rotating cyclic structures
[NASA-CR-173821] 19 p3035 N84-29252

FORCED VIBRATORY MOTION EQUATIONS
U EQUATIONS
U FORCED VIBRATION

FOREBODIES
NT NOSE CONES
NT NOSES (FOREBODIES)
NT ROCKET NOSE CONES
Control of the forebody vortex orientation by asymmetric air injection. Part A: Application to enhance departure/spin recovery of fighter aircraft and Part B: Details of the flow structure 01 p0014 N84-10068
Experimental investigation of forebody and wing leading-edge vortex interactions at high angles of attack
03 p0322 N84-12110
An experimental investigation into the forebody and engine inlet airflow characteristics of a photographic reconnaissance window pallet on the RF/A-18 aircraft
[AD-A132271] 04 p0481 N84-13167
Theoretical and experimental engine-inlet flow fields for fighter forebodies
[NASA-TP-2270] 08 p1097 N84-17132
A wind tunnel investigation to determine dominant forebody strake design characteristics for an F-15 equipped with conformal fuel tanks
[AD-A136912] 10 p1421 N84-19292
Inlet flowfield investigation. Part 2: Computation of the flow about a supercruise forebody at supersonic speeds
[NASA-CR-172315] 12 p1766 N84-21516
Experimental pressure distributions on axisymmetric forebodies at Mach 3 and angles of attack up to 17.5 degrees
[AD-A140321] 16 p2442 N84-25668

FORECASTING
NT DELPHI METHOD (FORECASTING)
NT LONG RANGE WEATHER FORECASTING
NT NOWCASTING
NT NUMERICAL WEATHER FORECASTING
NT PATTERN METHOD (FORECASTING)
NT PERFORMANCE PREDICTION
NT PREDICTION ANALYSIS TECHNIQUES
NT PROFILE METHOD (FORECASTING)
NT STATISTICAL WEATHER FORECASTING
NT TECHNOLOGICAL FORECASTING
NT WEATHER FORECASTING
Aquaculture techniques: A production forecasting model for aquaculture systems
[PB83-221713] 01 p0112 N84-10730
Future directions in large-scale scientific computing
[DE83-013229] 01 p0124 N84-10807
Test application of a semi-objective approach to wind forecasting for wind-energy applications
[DE83-016641] 02 p0256 N84-11676
Draft remarks for the IFIPS Congress 1983 panel on how to obtain high performance for high-speed processors
[DE83-012669] 02 p0277 N84-11814
Develop a normative or descriptive model of the international/domestic civil aviation industry. Volume 1: Executive summary
[AD-A131876] 03 p0314 N84-12053
Domestic scheduled air transport for the year 2000. Financial and capacity related effects of supply alternatives, considering, also, the cooperation with high speed rail transport services — West Germany
[DFVLR-FB-83-03] 03 p0326 N84-12141
Airport and air traffic control system. Executive summary 03 p0329 N84-12144
Aviation growth scenarios 03 p0329 N84-12147
Policy implications 03 p0329 N84-12150
Why didn't Box-Jenkins win (again)?
[DE83-014043] 03 p0427 N84-12502
A comparison of NMC models (1977) on precipitation forecasts for east coast cyclogenesis
06 p0879 N84-15720
Study to forecast and determine characteristics of world satellite communications market
[NASA-CR-168270] 07 p0991 N84-16426
Reliability of electrical machines and drives, part 2
[BMFT-FB-T-83-164-PT-2] 07 p0999 N84-16481
Combination of earthquake direction effects
[DE84-001848] 07 p1034 N84-16709
Can we delay a greenhouse warming
[DE84-003390] 08 p1183 N84-17703
Estimation and prediction of oceanic eddy fields
[AD-P002652] 11 p1689 N84-21017
System for the management of trauma and emergency surgery in space
[NASA-CR-175439] 11 p1693 N84-21045
Forecasting satellite motion 12 p1775 N84-21583
Global energy futures and CO2-induced climate change, appendices
[PB84-145903] 12 p1862 N84-22132
FAA (Federal Aviation Administration) aviation forecasts -Fiscal Years 1984-1995
[AD-A138759] 13 p1929 N84-22549
Trends of jet fuel demand and properties
14 p2106 N84-23631
The future of computing technology in physics: The potentials and pitfalls
[DE84-007249] 15 p2389 N84-25330
Research and applications of data from environmental satellites: Determining parameters and developing interpretation techniques for applications of environmental satellite data
[INPE-3005-NTE/213] 17 p2711 N84-27261
The importance of altimeter and scatterometer data for ocean prediction 17 p2720 N84-27316
The influence of actual and apparent geoid error on ocean analysis and prediction 17 p2721 N84-27318
Renormalization of seasonals in the additive seasonal model: Is it necessary?
[AD-A140799] 17 p2734 N84-27379
Tsunami warning system discussed at seismologists' meeting 18 p2859 N84-28154
Earthquake hazards 19 p3038 N84-29270

Overview of ultraviolet remote sensing of the ionosphere
[AD-A141533] 19 p3041 N84-29294
Error analysis for winters' additive seasonal forecasting system
[AD-A141355] 19 p3058 N84-29399
The forecasts of computers and the policy-making of China
[AD-A141557] 19 p3072 N84-29488
Method for defining the distribution of triaxial stress states in underground structures
[DE84-010591] 20 p3202 N84-30342
Developments of research on prediction of earthquakes, tsunami and volcanic eruptions in Far East 20 p3224 N84-30485
Stronger direction needed for the National Earthquake Program
[GAO/RCED-83-103] 20 p3240 N84-30570
Response to W. W. Kellogg's Carbon Dioxide and Climatic Change
[DE84-010986] 20 p3241 N84-30577
Space transportation systems of the future 21 p3348 N84-31236
Economics of hydrogen production: The next 25 years
[DE84-007279] 21 p3374 N84-31414
Ten-year forecasts of water quality in Lake Michigan using a deterministic eutrophication model
[DE84-011425] 21 p3437 N84-31804
Normal modes of the NCAR (National Center for Atmospheric Research) Community Forecast Model (CFM)
[PB84-191220] 22 p3642 N84-33094
Future of high energy physics
[DE84-013513] 22 p3654 N84-33165

FORECASTS
U FORECASTING

FOREIGN BODIES
Vibration response of geometrically nonlinear elastic beams to pulse and impact loading
[NASA-CR-174495] 03 p0388 N84-12527
Foreign particles at a solidification front
[BMFT-FB-W-83-031] 10 p1495 N84-19777

FOREIGN POLICY
NT INTERNATIONAL COOPERATION
NT INTERNATIONAL RELATIONS
NT OUTER SPACE TREATY
Technology and East-West trade: An update
[PB83-234955] 01 p0163 N84-11068
Transatlantic policy divergencies: Implications for the United States
[AD-A140574] 17 p2773 N84-27606

FOREIGN TRADE
International competitiveness in electronics
[PB84-170695] 16 p2568 N84-26475
Ten year trend's in US technological dependence on foreign technology as indicated by referencing from US patents. Appendix
[PB84-196997] 22 p3669 N84-33255
Ten year trends in US technological dependence on foreign technology as indicated by referencing from US patents
[PB84-197003] 22 p3669 N84-33256

FORENSIC SCIENCES
U LAW (JURISPRUDENCE)

FOREST FIRE DETECTION
Remote sensing from space for forestry purposes 08 p1176 N84-17659
Fire detection using the NOAA (National Oceanic and Atmospheric Administration)-series satellites
[PB84-176890] 17 p2722 N84-27324

FOREST FIRES
Scaling laws on fire spread 04 p0513 N84-13368

FOREST MANAGEMENT
Considerations on a permanent inventory and monitoring system for European forests 03 p0395 N84-12582
SAR 580: Images for agricultural and forest survey. First results in middle Belgium 03 p0397 N84-12595
Inventory of Flemish forests using medium-scale Color Infrared (CIR) photography and CIR orthophotoplans as base for a forest management data bank 03 p0400 N84-12614
Remote sensing from space for forestry purposes 08 p1176 N84-17659
Development of a data management front-end for use with a LANDSAT-based information system
[NASA-CR-175151] 11 p1749 N84-21418
The Pennsylvania defoliation application pilot test
[E84-10111] 13 p2004 N84-23004
Use of remote sensing for land use policy formulation
[E84-10117] 14 p2167 N84-23977
A geographic information system for forest management
[FOA-C-20531-D8] 15 p2418 N84-25516
Forest inventory using multistage sampling with probability proportional to size — Brazil
[E84-10144] 16 p2507 N84-26092
Long term policy planning concerning Harderbos (Netherlands)
[REPT-178] 21 p3432 N84-31777
Investigation of spectral signatures of differently damaged trees and forest stands 23 p3769 N84-33892

FORESTS
NT RAIN FORESTS
UHF radiowave propagation through forests
[AD-A130399] 01 p0062 N84-10408
An estimate of HF/VHF surface-wave communication link reaches in the West German forest environment
[AD-A131262] 01 p0067 N84-10441
Update and review of accuracy assessment techniques for remotely sensed data
[E84-10029] 01 p0099 N84-10646
Effects of acid precipitation and natural processes on cation leaching from 4 diverse forest ecosystems
[DE83-015759] 01 p0103 N84-10671
Estimating temperature and moisture regimes in forest and rangeland soils using thermal remote sensing
[PB83-237453] 02 p0241 N84-11577
Relating spatial patterns in image data to scene characteristics 03 p0394 N84-12573
Remote Sensing Applications for Environmental Studies — conferences
[ESA-SP-188] 03 p0395 N84-12579
Considerations on a permanent inventory and monitoring system for European forests 03 p0395 N84-12582
First results of the evaluations of the European SAR 580 data for agricultural and forestry purposes in test site D6, Freiburg (West Germany) 03 p0398 N84-12599
Detecting long-term ecological effects in forests and food chains
[DE83-003469] 03 p0406 N84-12655
The use of thematic mapper data for land cover discrimination: Preliminary results from the UK SATMaP programme
[E84-10038] 04 p0551 N84-13631
Photo interpretation key to Michigan land cover/use
[E84-10048] 04 p0553 N84-13641
Forest statistics for southwest-north Alabama counties
[PB83-251314] 04 p0556 N84-13662
The hardwood resource on nonindustrial private forest land in the southeast Piedmont
[PB83-252759] 04 p0556 N84-13663
Forest statistics for southwest-south Alabama counties, Forest Service resource bulletin
[PB83-249763] 04 p0556 N84-13664
The forest resources of Puerto Rico, Forest Service resource bulletin
[PB83-249995] 04 p0556 N84-13665
Forest statistics for southeast Alabama counties, Forest Service resource bulletin
[PB83-250753] 04 p0556 N84-13666
Forest area and timber resource statistcs for state and private lands in New Mexico, 1980, Forest Service resource bulletin
[PB83-251157] 04 p0556 N84-13667
Forest statistics for west central Alabama counties, Forest Service resource bulletin
[PB83-249961] 04 p0556 N84-13668
A correlation analysis of percent canopy closure versus TMS spectral response for selected forest sites in the San Juan National Forest, Colorado
[E84-10066] 06 p0865 N84-15635
Classification and area estimation of land covers in Kansas using ground-gathered and LANDSAT digital data
[E84-10068] 06 p0865 N84-15637
JBFA - buoyant flight
[NASA-TM-76815] 07 p0946 N84-16136
An initial analysis of LANDSAT 4 Thematic Mapper data for the classification of agricultural, forested wetland, and urban land covers
[E84-10073] 07 p1020 N84-16620
On the estimation of zero-plane displacement for tall vegetation
[INPE-2946-PRE/430] 07 p1023 N84-16634
Test of the use of LANDSAT imagery to detect changes in the area of forest in the tropics
[DE84-004444] 08 p1179 N84-17680
Atmospheric deposition to forests
[DE84-003384] 08 p1182 N84-17700
Investigation of forestry resources and other remote sensing data. 1: LANDSAT. 2: Remote sensing of volcanic emissions
[E84-10092] 10 p1522 N84-19963
Refinements to a one-dimensional carbon cycle model
[ISBN-0-643-03562-6] 10 p1533 N84-20040
Development of a data management front-end for use with a LANDSAT-based information system
[NASA-CR-175151] 11 p1749 N84-21418
Interpreting Michigan forest cover types from color infrared aerial photographs
[E84-10097] 12 p1828 N84-21917
Analysis of the quality of image data acquired by the LANDSAT-4 thematic mapper and multispectral scanners — Plumas County, California
[E84-10106] 12 p1829 N84-21924
Reflectance modeling 12 p1831 N84-21935
Rainfall chemistry and potential beneficial-detrimental impact to indigenous vegetation
[AD-A138471] 12 p1845 N84-22027
Aerial photography for ecological site mapping 14 p2169 N84-23990
Evaluating LANDSAT-4 MSS and TM data
[E84-10157] 17 p2709 N84-27249
Characterization of LANDSAT-4 TM and MSS image quality for interpretation of agricultural and forest resources 20 p3213 N84-30411
Forest environments 20 p3216 N84-30439
Forest generalization by digital raster data processing 20 p3226 N84-30501
Weather summaries for Coram Experimental Forest, Northwestern Montana: An international biosphere reserve
[PB84-182443] 20 p3248 N84-30615
Habitability of the Earth 21 p3427 N84-31740
Long term policy planning concerning Harderbos (Netherlands)
[REPT-178] 21 p3432 N84-31777
Spectral characterization of biophysical characteristics in a boreal forest: Relationship between Thematic Mapper band reflectance and leaf area index for Aspen 23 p3766 N84-33875
Radar backscattering of forest stands 23 p3767 N84-33880
Use of multi-frequency, multi-polarization, multi-angle airborne radars for class discrimination in a southern temperature forest 23 p3767 N84-33881
Investigation of spectral signatures of differently damaged trees and forest stands 23 p3769 N84-33892

FORGING
Grippers for an unmanned forging cell
[AD-A134237] 07 p1051 N84-16808
Productivity and the forging industry 09 p1293 N84-18448
Precision forging of front fan blades, abridged version
[BMFT-FB-T-83-205] 10 p1472 N84-19613
Development of an isothermal forming technique for the production of precision parts made from titanium alloys
[BMFT-FB-T-83-220] 10 p1472 N84-19616
Biaxial tension tests of HERF 304L stainless steel
[DE84-006205] 11 p1634 N84-20685
A review of advanced manufacturing technology — gas turbine components
[PNR-90194] 13 p1975 N84-22815
Aluminum precision forging components 14 p2094 N84-23563
Finite element analysis of axisymmetric forging 15 p2307 N84-24838
Fabrication development for ODS-superalloy, air-cooled turbine blades
[NASA-CR-174650] 16 p2450 N84-25711
Establishment of a Computer-Aided Design (CAD)/Computer-Aided Manufacturing (CAM) process for the production of cold forged gears
[AD-A141018] 18 p2921 N84-28522
Forging and stamping nonferrous metals. Handbook
[AD-A141689] 21 p3366 N84-31351
Automation of a drop forge at the Centre Techniques des Industries Mecaniques (CETIM) forge section
[CETIM-1.3K.27.3] 21 p3376 N84-31423
Industrial forging applications of shaping simulation using modeling clay
[CETIM-1.3K.36.2] 21 p3376 N84-31424
Construction of a test bench for closed die forging
[CETIM-5.580.50] 21 p3376 N84-31425
Influence of choice of steel on forging
[CETIM-1.3K.32.1] 21 p3416 N84-31663
Preliminary investigations of means to transfer computer programs to the forging industry
[CETIM-1.3K.38.2] 21 p3467 N84-31983
Discussion of superplasticity effect 24 p3876 N84-34563

FORM
U SHAPES

FORM FACTORS
Intermediate-energy nuclear theory — nucleon-nucleon theory, three-dadron systems, hadron form factors, and Dirac particles
[DE84-012971] 22 p3654 N84-33161
Prospect of polarized targets in electron rings
[DE84-014684] 23 p3823 N84-34245

FORM PERCEPTION
U SPACE PERCEPTION

FORMALDEHYDE
Formaldehyde as a density probe of interstellar clouds
02 p0307 N84-12015
FORMALISM
Mapping between semantic representations using Horn clauses
[AD-A131531] 02 p0273 N84-11787
Theory of elementary excitations in intermediate valence materials
[DE84-003705] 07 p1083 N84-17044
Automatic synthesis of abstract data type implementations from abstract specifications
08 p1211 N84-17896
Machine models, computational complexity and number theory
08 p1223 N84-17991
System for Application oriented Requirement Specification (SARS)
[BMFT-FB-DV-83-006] 12 p1885 N84-22286
Towards a formal multi-valued utility theory
[AD-P002356] 14 p2193 N84-24147
Synthesis of axion systems for the three-valued predicate logic by means of the special four-valued logic
[AD-P002358] 14 p2193 N84-24149
Annotation language design for Ada (ANNA)
[AD-A140452] 16 p2545 N84-26336
Memory function formalism applied to electronic transport in disordered systems
[INPE-3084-PRE/481] 16 p2559 N84-26418
FORMAT
Compiling the space shuttle wind tunnel data base: An exercise in technical and managerial innovators
01 p0026 N84-10166
Using the glyph concept to create user-definable display formats
[DE83-013831] 01 p0124 N84-10806
Representation of information in software documentation
[AD-A131470] 02 p0273 N84-11783
Short introduction to office applications of markup language
[DE83-011400] 04 p0582 N84-13844
Standard format for data films — synchrotron radiation sources
[DE84-000345] 04 p0616 N84-14068
Combined visualization 06 p0769 N84-15043
A new method for generating and maintaining rigid formats in NASTRAN 06 p0960 N84-15605
Initial graphics exchange specification test library, version 1.3
[PB84-102144] 08 p1214 N84-17922
A comparison of homogeneous and heterogeneous display formats in information integration and nonintegration tasks
[AD-A136693] 10 p1554 N84-20183
Pilot Ocean Data System (PODS) file format specifications 12 p1836 N84-21968
Translators between CADD and section 5 of the ANSI Y14.26M standard 12 p1871 N84-22192
How to use TRIX RED to format equations for REDPP and other tricks
[DE84-006328] 12 p1884 N84-22280
Wang OIS glossary package for reformatting documents telecommunicated to the OIS system
[DE84-005113] 12 p1920 N84-22507
Computer aided layout of procedure information for training and job aiding
[AD-A139347] 14 p2205 N84-24236
Designing readable and reusable tables
[RAND/P-6945] 14 p2247 N84-24496
Fatigue crack growth rate data for aluminum alloy 6061-t651 plate
[AD-A140325] 16 p2469 N84-25624
Universal documentation system handbook. Supplement 2: Procedures for the electronic processing of level 1, 2 and 3 test requirements and support information
[AD-A141850] 19 p2980 N84-28886
A concept for the processing and display of Thematic Mapper data 20 p3214 N84-30417
WARN: A warning formatter
[PB84-204551] 21 p3467 N84-31985
Optional stopping performance under graphic and numeric CRT formatting
[AD-A143274] 22 p3586 N84-32712
Notes for medical catalogers, 1983
[PB84-195874] 22 p3675 N84-33296
Decommutation system
[INPE-3148-NTE/220] 23 p3730 N84-33639
Research in the design of high-performance reconfigurable systems
[NASA-CR-173998] 24 p3942 N84-34957
FORMATION
Petrology of basement rocks of the California continental borderline and the Los Angeles Basin
24 p3917 N84-34801
FORMATION HEAT
U HEAT OF FORMATION
FORMATIONS
Petrologic and geophysical study of the source of long wavelength crustal magnetic anomalies
[NASA-CR-175168] 11 p1677 N84-20948
Formation of chondrules by drag heating in dust-enriched environments 11 p1756 N84-21483
Proterozoic to mesozoic mobile-belt geology, Pensacola Mountains, Antarctica 14 p2162 N84-23947
Sedimentology of the Horlick Formation (Lower Devonians), Ohio Range, Transantarctic Mountains
14 p2162 N84-23948
The neogene stratigraphy of the Central Florida Panhandle 21 p3441 N84-31833
FORMIC ACID
Electrochemical reduction reactions involving formic acid
[AD-A139479] 14 p2123 N84-23721
FORMING TECHNIQUES
NT CASTING
NT CENTRIFUGAL CASTING
NT COLD ROLLING
NT COLD WORKING
NT ELECTROFORMING
NT EXPLOSIVE FORMING
NT EXTRUDING
NT FORGING
NT HOT WORKING
NT INJECTION MOLDING
NT INVESTMENT CASTING
NT METAL DRAWING
NT METAL SPINNING
NT PRESSING (FORMING)
NT PROPELLANT CASTING
NT PULTRUSION
NT ROLL FORMING
NT SLIP CASTING
NT STAMPING
Factors affecting plastic instability and sheet formability
[DE83-011146] 01 p0097 N84-10631
Influence of rare-earth additions on properties of titanium alloys. Effects of yttrium and erbium additives on rapid solidification processing, superplastic forming, welding, and strengthening of titanium alloys
[AD-A133669] 05 p0654 N84-14299
Fourth Seminar on Efficient Metal Forming and Machining
[ISBN-0-7988-2556-1] 09 p1292 N84-18438
Metal formability in bulk deformation processes
09 p1293 N84-18446
Finite element analysis of metal forming processes with thermomechanical coupling
[DE84-004879] 10 p1462 N84-19548
Microstructures associated with wear
14 p2153 N84-23901
On geometrical accuracy in precise metal forming
15 p2308 N84-24845
Successful utilization of economic, light aluminum-casted structures in airplane construction
[VFW-31/83-O] 16 p2562 N84-26439
Technological effects of pressure vessel manufacturing processes on steel properties
[EUR-7614] 17 p2622 N84-26780
Method for refining microstructures of prealloyed powder metallurgy titanium articles
[AD-D011162] 23 p3718 N84-33570
Activities in metal manufacturing
23 p3727 N84-33618
Macrosegregation in aluminum alloy ingot cast by the semicontinuous direct chill method
24 p3883 N84-34800
A review of our present understanding of macrosegregation in ingots 24 p3883 N84-34801
FORMULAS
Polymers of phosphonylmethyl-2,4- and -2,6-diamino benzenes and the like
[NASA-CASE-ARC-11506-1] 03 p0356 N84-12313
FORMULAS (MATHEMATICS)
Sharp PC-1500 pocket computer solutions to composite materials formulas
[AD-A130421] 01 p0031 N84-10193
The analysis of crack growth data with application to trip steel
[AD-A132021] 03 p0389 N84-12535
NRL (Naval Research Laboratory) plasma formulary, revised
[AD-A135787] 09 p1391 N84-19066
Implementation of Nisitani's body force method for the solution of notch problems
[AD-A137690] 11 p1668 N84-20881
On an algorithm for external triangulation of ELV polygons
[CSIR-TWISK-287] 11 p1712 N84-21162
New formulas that extend Norton's farfield elementary dipole equations to the quasi-nearfield range
[AD-A139057] 13 p2034 N84-23188
Some practical Runge-Kutta formulas
[DE84-013539] 22 p3646 N84-33123
FORMULATIONS
Microbial evaluation of some adhesive formulations and adhesive bases
[AD-A141659] 19 p2999 N84-29005
FORTRAN
AFWL benchmark computer program
[AD-A131273] 01 p0124 N84-10804
Documentation for FDCALC and FDCORE
[DE83-013886] 01 p0124 N84-10808
FORTRAN 8X: A continuing language for numerical software
[DE83-014290] 01 p0124 N84-10809
Convergent technologies, IWS 111, CT FORTRAN Version 8.0 (Pre-Release)
[PB83-227280] 01 p0126 N84-10820
The TRW Datacom, AWS 246, TRW FORTRAN Version 8.0 (Pre-Release)
[PB83-227264] 01 p0126 N84-10822
The NCR Corporation, Office Systems Division, WS 210, NCR FORTRAN Release 3.0 (Pre-Release)
[PB83-227256] 01 p0126 N84-10823
Burroughs Corporation, B21-6T (512K), B20 FORTRAN Release 2.0 (Pre-Release)
[PB83-227231] 01 p0126 N84-10825
Data General Corporation ECLIPSE C/350, AOS FORTRAN 77, revision 2.11
[PB83-233460] 01 p0126 N84-10826
Use of desktop computers for data acquisition
[DE83-014277] 02 p0270 N84-11768
Core graphics user's manual
[DE83-013206] 02 p0274 N84-11791
APPLIB user's manual
[DE83-016238] 02 p0274 N84-11794
Data General Corporation ECLIPSE MV/8000, AOS/VS FORTRAN 77 revision 2.11
[PB83-233262] 02 p0275 N84-11800
Perkin-Elmer, Perkin-Elmer 3240, FORTRAN 7 release RO5-01
[PB83-233072] 02 p0275 N84-11803
A generalized computer code for developing dynamic gas turbine engine models (DIGTEM)
[NASA-TM-83508] 03 p0333 N84-12166
Assembly language graphics library (EGR1.LB) with Fortran interfacing
[PB83-239624] 03 p0422 N84-12757
Computer Sciences Corporation UNIVAC 1100/80 CSTS FORTRAN, release FTN148
[PB83-243428] 03 p0422 N84-12763
On the performance of two-stage group screening experiments
[AD-A131970] 03 p0428 N84-12807
The computerization of material safety data sheet information
[AD-A131992] 03 p0459 N84-13021
CI: A computer program for calculation of contact indexes which will correct reaction rates evaluated by mean quantities during simulation of turbulent combustion
[DE84-001000] 04 p0494 N84-13244
Computer-aided synthesis and design of monolithic microwave GaAs MESFET amplifiers
[AD-A132474] 04 p0525 N84-13452
Oak Ridge heat-pump models. Part 1. A steady-state computer design model for air-to-air heat pumps
[DE84-001577] 04 p0535 N84-13519
User's manual for CABLE: A three-dimensional, finite-segment computer code for submerged and partially submerged cable systems
[AD-A132515] 04 p0579 N84-13821
IBM Corporation IBM 4341, VS FORTRAN release 3.0
[PB83-257996] 05 p0720 N84-14723
USERSIN: An interactive user-interface for FORTRAN SIN
[MRL-R-877] 05 p0721 N84-14728
A user's view of the Statistic Analysis Package (SAP): A new software quality assurance tool for FORTRAN programs 05 p0722 N84-14738
Practical experience of engineering software production to a structured programming standard
05 p0723 N84-14744
Ordering methods for sparse matrices
[AD-A133657] 05 p0735 N84-14824
Introduction to the FORTRAN 14 programs Duvorol and Contact for the solution of 3 D elastoetatic half-space contact problems with and without friction
[PB83-147421] 06 p0898 N84-15833
An investigation of the indirect boundary element method in One- and two-dimensional elastostatics
[AD-A133142] 06 p0900 N84-15843
Processing time using Datatrieve-11, clunks, and FORTRAN
[DE84-001706] 06 p0935 N84-16081

A computer program for reliability evaluation of large-scale undirected networks via polygon-to-chain reductions
[AD-A134190] 07 p1054 N84-16826
Some experiences with gasp-like microcomputer simulation languages in FORTRAN, Pascal, and Ada
[AD-A134543] 07 p1055 N84-16832
Software parts in FORTRAN 8X
[DE84-003621] 07 p1055 N84-16833
SAMPLE: Software for VAX FORTRAN execution timing
[DE84-003819] 07 p1055 N84-16834
Computer models for two-dimensional transient heat conduction
[AD-A134893] 08 p1160 N84-17549
Sperry Univac, Univac 1100/80, ASCII FORTRAN level 10R1A
[PB84-113883] 08 p1214 N84-17920
Thermodynamics library for AFOS (Automation of Field Operations and Services) programmers (THERMO LB)
[PB84-122621] 08 p1215 N84-17925
Writing TSO (Time Sharing Option) commands in FORTRAN
[AD-A136584] 09 p1367 N84-18925
Squeezing the most out of an algorithm in Cray FORTRAN
[DE84-003871] 09 p1369 N84-18941
Program ERROR
[PB84-126081] 09 p1370 N84-18946
Harris Corporation, Harris H800, FORTRAN 77 NON-SAU, version 3.12
[PB84-126479] 09 p1370 N84-18948
Harris Corporation, Harris H800, FORTRAN 77 SAU, version 3.12
[PB84-126503] 09 p1371 N84-18951
Honeywell International Systems DPS 8/70 FORTRAN-77 REL C00
[PB84-136191] 10 p1557 N84-20205
BIMOND: Monotone bivariate interpolation code (preliminary documentation)
[DE84-004159] 10 p1565 N84-20252
Control Data Corporation CYBER 205 model 442 200 (G201-25)
[PB84-137421] 10 p1565 N84-20256
A practical guide to MAXLIK
[RAND/N-1914-RC-REV] 11 p1706 N84-21118
Atmospheric transmittance/radiance: Computer code LOWTRAN 6. Supplement: Program listings
[AD-A137689] 11 p1706 N84-21123
MINOS 5.0 user's guide
[DE84-005640] 11 p1709 N84-21140
FORTRAN 5 cross-reference
[DE84-006438] 11 p1709 N84-21143
DIGLIB for HP-1000 computers
[DE84-004741] 11 p1710 N84-21147
Honeywell Information Systems DPS 8/49 FORTRAN (8) FZ3.0
[PB84-136213] 11 p1710 N84-21148
Burroughs Corporation B3955 Burroughs FORT77 Version 6.7
[PB84-137223] 11 p1710 N84-21150
Honeywell Information Systems DPS 6/70M MULTICS FORTRAN compiler version 10.2
[PB84-140714] 11 p1710 N84-21151
Honeywell Information Systems DPS 6/96 FORTRANA release 2.1
[PB84-141233] 11 p1711 N84-21152
Cray Research, Incorporated, Cray 1-S Cray FORTRAN (CFT) version 1.11 Bugfix 1
[PB84-141258] 11 p1711 N84-21153
CDC to CRAY FORTRAN conversion manual
[NASA-CR-166574] 12 p1879 N84-22243
Static analysis package
[REPT-71.3794] 12 p1884 N84-22283
D and B Computing Services, Inc., AMDAHL 470 V/8, IBM FORTRAN VS Release 3, Mod 0
[PB84-149327] 12 p1885 N84-22290
Burroughs Corporation, Burroughs B-7800, FORTRAN 77 Version III.4.1
[PB84-149913] 12 p1885 N84-22292
Prime Computer, Incorporated, PRIME 750, FORTRAN-77, revision 19.3.1
[PB84-151265] 12 p1886 N84-22296
Digital Equipment Corporation, PDP-11/44, PDP-11 FORTRAN V5.0
[PB84-151273] 12 p1886 N84-22297
Validation report: Digital Equipment Corporation, VAX 11/780, PDP-11 FORTRAN V5.0
[PB84-149236] 12 p1886 N84-22298
Structural coverage of functional testing
13 p2027 N84-23141
TLINES: A computer program for circuits of transmission lines
[AD-A139596] 14 p2142 N84-23844
On the conversion of LINPACK to Ada
[AD-P002941] 14 p2197 N84-24181
Interactive signal synthesis system user's guide
[AD-A139594] 14 p2206 N84-24238
United Information Services, Inc., CDC CYBER 175, CDC FORTRAN 5.1
[PB84-157668] 14 p2207 N84-24245
Validation summary report, NCR Corporation, NCR V8585, VRX FORTRAN version 25
[PB84-156108] 14 p2209 N84-24259
A digital flight control system for an unstable aircraft
[BU-292] 15 p2264 N84-24594
FLOCHT: A system of FORTRAN codes for computer drawn flow charts and diagrams
[DE84-007569] 15 p2393 N84-25362
Application of semi-empirical Ge(Li) detector calibration technique for large volume samples
[DE83-012801] 16 p2494 N84-26004
Simulation of linear multivariable systems with piecewise continuous input functions and with various options for graphic representation of the results
[ESA-TT-749] 16 p2544 N84-26333
Gould Incorporated, Gould concept 32/87, FORTRAN 77/X32 Rel. 2.0
[PB84-175603] 17 p2755 N84-27488
Gould Incorporated, Gould Concept 32/87, FORTRAN 77+ Rel.4.0
[PB84-175629] 17 p2755 N84-27489
XSECT: A computer code for generating fuselage cross sections - user's manual
[NASA-TM-83218] 18 p2788 N84-27696
Current and future graphics requirements for LaRC and proposed future graphics system
[NASA-TM-85726] 18 p2917 N84-28495
CARE 3: Model overview and user's guide
[NASA-TM-85810] 18 p2920 N84-28514
A three-dimensional transonic, potential flow computer program, its conversion to IBM FORTRAN and utilization
[AD-A140936] 18 p2921 N84-28521
Three-dimensional transonic potential flow about complex 3-dimensional configurations
[NASA-CR-3814] 19 p2958 N84-28749
Special nonlinear optimization techniques
[AD-A141097] 19 p3083 N84-29564
COMEDG: A program to combine logically independent line segments into geometrically coherent lines
20 p3226 N84-30499
Modular Computer System, Inc. Modular NASA extended FORTRAN 78 C.1
[PB84-180231] 20 p3267 N84-30734
SLATEC mathematical subprogram library, version 2.0
[DE84-010750] 20 p3274 N84-30782
FORTRAN 8x: The scientific programming language of the future
[DE84-012526] 20 p3274 N84-30787
Numerical calculations of the function of the static receptivity of electrons in metals
[BLL-M-35640-(5828.4)] 22 p3551 N84-32480
Contouring program for generation of sea surface temperature maps
[INPE-3260-RPE/464] 24 p3935 N84-34906
Interactive implementation of the optimal systems control design program (OPTSYSX) on the IBM 3033
[AD-A144159] 24 p3948 N84-35000

FORWARD LOOKING INFRARED DETECTORS
U FLIR DETECTORS

FORWARD SCATTERING
Evaluation of visibility sensors at the Eglin Air Force Base climatic chamber
[AD-A135375] 08 p1190 N84-17758
Meteor scatter communication in an air-ground environment
[RAE-TM-RAD-NAV-224] 09 p1298 N84-18484
The optical spectra of aerosols
[AD-A135687] 09 p1377 N84-18993
AWOS (Automatic Weather Observing System) sensor evaluation. Transmissometer, forward-scatter meter and lidar ceilometer
[AD-A138743] 13 p2017 N84-23074
Tactical visibility meter
[AD-A141286] 18 p2890 N84-28347

FOSSIL FUELS
NT COAL
NT CRUDE OIL
NT NATURAL GAS
NT PEAT
NT SOLVENT REFINED COAL
Guidelines for evaluation of commercial fossil fuels gasification concepts
[PB84-132570] 09 p1291 N84-18429
Relationship between global fossil-fuel consumption and the concentration of carbon dioxide in the atmosphere, part 1
[PB84-123413] 10 p1532 N84-20036
Refinements to a one-dimensional carbon cycle model
[ISBN-0-643-03582-6] 10 p1533 N84-20040
Relationship between global fossil-fuel consumption and the concentration of carbon dioxide in the atmosphere, part 2
[PB84-138841] 11 p1683 N84-20985
Changing climate
[PB84-148576] 12 p1862 N84-22135
Supercritical solvent coal extraction
[NASA-CASE-NPO-15210-1] 13 p1955 N84-22709
The carbon dioxide research plan, a summary
[DOE/ER-0178] 16 p2528 N84-26226
Energy source today and tomorrow
[MBB-UR-602-82-O] 16 p2564 N84-26452
Cogeneration: Status and environmental issues
[PB84-155175] 17 p2723 N84-27334
Yearbook of the Bureau of Mineral Resources, Geology and Geophysics, Canberra, 1 July 1982 - 30 June 1983
[BMR-83] 19 p3037 N84-29266
Fossil fuels
19 p3037 N84-29267
Carbon dioxide emissions from fossil fuels: A procedure for estimation and results for 1950 - 1981
[DOE/NBB-0036] 19 p3052 N84-29365
Global biogeochemistry: An overview
20 p3217 N84-30435
Humidity/cloud-radiation feedback on possible climatic perturbation due to fossil fuel utilization
[DE84-011895] 21 p3448 N84-31874
Atmospheric retention of anthrogenic CO2: Scenario dependence of the airborne fraction
[DE84-012079] 21 p3448 N84-31879
An analysis of possible future atmospheric retention of fossil fuel CO-2
[DOE/OR-21400/1] 23 p3793 N84-34054

FOSSIL METEORITE CRATERS
U FOSSILS
U METEORITE CRATERS

FOSSILS
Sedimentology and invertebrate paleontology of Triassic and Jurassic Lacustrine deposits, Culpeper Basin, northern Virginia
13 p2014 N84-23064
Vegetation and climates of the last 45,000 years in the vicinity of the Nevada Test Site, south-central Nevada
[DE84-009032] 20 p3247 N84-30610
Volcanism, plutonism, and sedimentation in a late Devonian Submarine Island-arc setting, Northern Sierra Nevada, California
21 p3441 N84-31831

FOULING
NT ANTIFOULING
Microbial fouling and its effect on power generation
[AD-A131084] 01 p0112 N84-10726
Membranes and separators for flowing-electrolyte batteries: A review
[DE83-016246] 02 p0242 N84-11586
Structure of convective surface deposits and effect on MHD steam-plant design
[DE83-010757] 03 p0446 N84-12931
Membrane separators for circulating electrolyte storage batteries
[DE84-002106] 07 p0996 N84-16471
Marine fouling at HMAS Stirling, western Australia
[MRL-R-914] 11 p1692 N84-21038
Mitigation of biofouling using coatings
[DE84-006112] 11 p1693 N84-21041
A survey of gas-side fouling in industrial heat-transfer equipment
[NASA-CR-173469] 12 p1841 N84-22003
A survey of gas-side fouling measuring devices
[NASA-CR-173734] 18 p2836 N84-28003

FOUNDATIONS
NT PILE FOUNDATIONS
Development of a stress-dependent finite element slab model
[AD-A135836] 09 p1332 N84-18694
The behavior of a slag base pavement structure at P39/1, Erasmia under heavy vehicle simulator loading
[RP/5/82] 11 p1639 N84-20716
Approximations for elastic layers and a three-dimensional elasticity solution for a simply supported rectangular plate
15 p2314 N84-24884
Installation restoration general environmental technology development. Task 3: Guidelines for in-place closure of dry lagoons. Volume 2: Evaluation of in-place closure technologies
[AD-A140655] 17 p2724 N84-27338
A comparative evaluation of new low-cost array field designs for grid-connected photovoltaic systems
[DE84-010978] 21 p3435 N84-31797
Investigation and rehabilitation to extend service life of DSS-13 antenna concrete foundation
22 p3574 N84-32637

FOUNDRIES
Choice of a melting installation for aluminum alloy
[BLL-OA-TRANS-3095-(6196.3)]
06 p0804 N84-15239
Abrasive properties of ferroalloys
[BLL-M-35416-(5828.4)] 07 p0973 N84-16306

The effect of recycling on cast structures and the internal character of IN100 alloy: A laboratory study
23 p3705 N84-33485
Activities in metal manufacturing
23 p3727 N84-33618

FOUR BODY PROBLEM
Investigations of the structure and electromagnetic interactions of few body systems
[DE84-006852] 12 p1902 N84-22388

FOURIER ANALYSIS
NT FOURIER SERIES
Hydrothermal stability of gamma-aminopropyltriethoxysilane coupling agent on ground silicon powder and E-glass fibers
[AD-A130904] 01 p0037 N84-10234
Multigrid semi-implicit hydrodynamics revisited
[DE83-012675] 01 p0081 N84-10526
Evaluation of Fourier descriptors for target recognition in digital imagery
[AD-A130182] 01 p0129 N84-10844
Spectral methods for partial differential equations
[NASA-CR-172248] 02 p0280 N84-11832
Acquisition, image and data compression
[AD-A131923] 03 p0360 N84-12344
Nonlinear dynamics and control of a vibrating rectangular plate
[NASA-CR-172215] 03 p0388 N84-12528
Comparison of arithmetic requirements for the PFA (Prime Factor Algorithm), WFTA (Winograd Fourier Transform Algorithm), SWIFT, MFFT (Mixed radix fast Fourier transform), FFT (Fast Fourier Transform) and DFT (Discrete Fourier Transform) algorithms
[AD-A133087] 05 p0736 N84-14847
Numerical evaluation of finite Fourier integrals
[CSIR-TWISK-273] 07 p1060 N84-16868
Spectral methods for the Euler equations: Fourier methods and shock-capturing
[NASA-CR-172294] 08 p1095 N84-17119
Eisenstein series on the metaplectic group: An algebraic approach
[MATH-CENTRE-TRACTS-161]
08 p1217 N84-17937
Reflection acoustic microscopy for Micro-NDE
[AD-A136321] 09 p1327 N84-18665
Comparative study of period determination methods
09 p1410 N84-19216
Numerical study of Kelvin-Helmholtz instability by the point vortex method
[DE84-006613] 11 p1654 N84-20797
Switching behavior of bistable resonators filled with two-level atoms 14 p2236 N84-24419
Fourier shape analysis: A multivariate pattern recognition approach
[AD-P003118] 16 p2532 N84-26259
Preparation of residual gravity maps for the southern Cascade Mountains, Washington using Fourier analysis
[DE84-012546] 19 p3055 N84-29384
The use of overlapped subarray techniques in simultaneous receive beam linear arrays
[AD-P003501] 21 p3383 N84-31469
Enhanced Fourier algorithms for ultrasonic crack characterization
[DE84-012544] 21 p3423 N84-31714
The exponential accuracy of Fourier and Tchebyshev differencing methods
[NASA-CR-172435] 22 p3645 N84-33108

FOURIER SERIES
Visualization of patterns corresponding to the Fourier components of a vibration by interference holography
[TPD-1982-0-1] 02 p0222 N84-11453
Application of the implicit Fourier-expansion method to the calculation of three-dimension equilibria by the iterative method
[DE83-017621] 04 p0590 N84-13902
An empirically developed Fourier series model for describing software failures
[AD-A132739] 05 p0729 N84-14787
Theory of the two-frequency operating mode of traveling-wave tubes of the O type
[AD-A137616] 11 p1646 N84-20763
Distributed parameter control techniques with application to adaptive control of certain flutter phenomena, November 1, 1982 to October 31, 1983
[AD-A140943] 18 p2923 N84-28540
Horizontal cylindrical vessels supported by saddles subjected to vertical and lateral force fields
22 p3608 N84-32858

FOURIER TRANSFORMATION
NT FAST FOURIER TRANSFORMATIONS
A Fourier transform technique which measures phase delays between ultrasonic impulses with sufficient accuracy for the determination of residual stresses in metals
[AERE-R-1093] 01 p0047 N84-10306
The singularity expansion method applied to plane wave scattering from a lossy slab on a conducting half-space
[DE83-012942] 01 p0068 N84-10442
Fourier-processed images of dynamic lung function from list-mode data
[DE83-013276] 01 p0114 N84-10741
Studies of an inductively coupled plasma with a Fourier-transform spectrometer
[DE83-014194] 01 p0151 N84-10991
Self-correction coil: Operation mechanism of self-correction coil
[DE83-016324] 03 p0367 N84-12392
Acoustic pulse scattering from impedance covered cylinders
[AD-A131653] 03 p0431 N84-12822
Application of pseudoinversion to linear system identification with discrete measurements
[AD-A132283] 04 p0521 N84-13422
The local wavenumber spectrum and its applications in turbulence and noise 05 p0672 N84-14417
Collisional energy exchange in polyatomic molecules
[AD-A133942] 05 p0744 N84-14886
The abundances and evolutionary state of the early R stars 05 p0764 N84-15010
Fourier optics for the Maxwell field: Formalism and applications
[DE84-002845] 06 p0826 N84-15383
Dip-moveout by Fourier transform
06 p0876 N84-15699
Stationary stochastic processes — spectrum analysis
[ESA-TT-812] 06 p0905 N84-15875
Energy absorption by polymer crazing
[NASA-CR-173275] 07 p0978 N84-16335
Fourier transform and polychromator studies of the inductively coupled plasma
[DE84-003975] 08 p1233 N84-18059
New method of analyzing vibration of cracked cylindrical shells
[AD-A136637] 09 p1331 N84-18693
A comparison of optical versus hardware fourier transforms
[AD-A136223] 09 p1373 N84-18963
Harmonizable stable processes on groups: Spectral, ergodic and interpolation properties
[AD-A136504] 09 p1384 N84-19041
Phase dispersion minimization methods for estimation of periods from unequally spaced sequences of data — astrophysical data 09 p1408 N84-19202
Line width and line shape analysis in the inductively coupled plasma by high resolution Fourier transform spectrometry
[DE84-004358] 10 p1457 N84-19513
A Kosloff/Basal method, 3D migration program implemented on the CYBER 205 supercomputer
10 p1562 N84-20232
Radar signal processing architectures and algorithms in digital VLSI (Very Large Scale Integration)
[PB84-140110] 11 p1645 N84-20756
Frequency domain approach to structural analysis
[DE84-005110] 11 p1669 N84-20889
Efficient computer architectures for computing discrete Fourier transforms
[AD-A138109] 12 p1881 N84-22258
Deformation studies of polymers by Fourier transform infrared spectroscopy 13 p1962 N84-22751
The Fourier Plancherel transform of the analytic Lie group. 1: Weyl algebras and differential operators
13 p2032 N84-23176
Estimates of one-dimensional oscillatory integrals
13 p2032 N84-23179
The 1983 International Conference on Fourier Transform Spectroscopy September 1983
[AD-A139014] 13 p2043 N84-23258
Dynamics and evolution of cD galaxies
13 p2072 N84-23425
Diagnostic algorithms for contour dynamics
[AD-P002947] 14 p2198 N84-24187
Fingerprint theorems for zero-crossings
[AD-A139181] 14 p2212 N84-24280
Development of FT-IR attenuated total internal reflection dichroism techniques for structural characterization of polymer surfaces
[AD-A140805] 17 p2768 N84-27577
Optical signal processing for surveillance
[AD-A140957] 18 p2932 N84-28591
Fourier transform photoacoustic spectroscopy
[DE84-010216] 19 p2990 N84-28946
Adaptive spread spectrum receiver using acoustic surface wave technology
[AD-A142129] 19 p3007 N84-29060
Procedures for signal reconstruction from noisy phase
[AD-A142185] 19 p3016 N84-29120
The generation of a mass point model from surface gravity data
[AD-A142327] 19 p3054 N84-29382
Synthesis of arbitrary broadband signals for a parametric array
[AD-D011021] 19 p3100 N84-29691
Convergence of bivariate cardinal interpolation
[AD-A142694] 21 p3472 N84-32006
The Fourier Plancherel transform for Lie groups. 2: Nilpotent groups 22 p3634 N84-33026
Radial distribution function as an analysis technique
[DE84-013242] 22 p3665 N84-33235
FTIR analysis of aviation fuel deposits
[NASA-TM-83773] 23 p3726 N84-33608
Fluid layer between infinite elastic plates. I: Mathematics and intensity vectors
[AD-A144373] 24 p3901 N84-34700
The theory of Fourier descriptors and how they may be used to characterize shape 24 p3915 N84-34787
White light optical information processing
[AD-A144142] 24 p3963 N84-35096

FOVEA
Functional assessment of laser irradiation
[AD-A139507] 15 p2378 N84-25274

FRACTALS
Fractal phase screens
[AD-A137804] 11 p1714 N84-21175
Patterns of energy levels and spectra for polyatomic molecules
[DE84-007501] 15 p2405 N84-25436

FRACTIONATION
NT CHEMICAL FRACTIONATION
Effects of surface area and pore size upon liquid chromatographic fractionations of polystyrene oligomers using ethylphenyl derivatized silicas
[DE83-014632] 01 p0051 N84-10327
Microprobe analyses of rare-earth-element fractionation in meteoritic minerals
[DE83-017328] 04 p0621 N84-14097
Supercritical fluid chromatography/supersonic jet spectroscopy
[DE84-007384] 15 p2287 N84-24724
Isotope effects in the solution of gases in liquids
[DE84-014848] 23 p3715 N84-33549

FRACTOGRAPHY
Fractographic analysis of failures in CFRP
01 p0033 N84-10204
Mechanisms of wear in single and two-phase materials
[DE83-014651] 01 p0091 N84-10592
The effects of environment and dwell on high temperature fatigue crack growth of 2 1/4 Cr - 1 Mo steel
[AD-A132147] 04 p0549 N84-13617
Fatigue of niobium at elevated temperatures
[DE84-001373] 05 p0656 N84-14314
Investigations of the mechanical behavior of spot welded joints by means of acoustic emission analysis
[DE84-003041] 07 p1014 N84-16574
The study and modeling of high temperature fatigue crack propagation in austenitic stainless steel
[DE84-005391] 10 p1462 N84-19552
Background research in support of the new grant proposal: Research consortium for X-ray topography on line X-19 at NSLS
[DE84-004212] 10 p1589 N84-20414
Stress-intensity factor equations for cracks in three-dimensional finite bodies subjected to tension and bending loads
[NASA-TM-85793] 14 p2157 N84-23925
Effect of austenitisation heat treatment on the fracture resistance and temper embrittlement of MnMoNi steels
[AERE-R-11043] 18 p2816 N84-27882
Fatigue crack growth behavior of an oxide dispersion strengthened MA956 alloy
[AD-A142059] 21 p3421 N84-31702
Fracture surface characteristics of notched angleplied graphite/epoxy composites
[NASA-TM-83786] 23 p3711 N84-33522
Modern methods of studying initial stage of fatigue fracture in metals 24 p3871 N84-34531

FRACTURE MECHANICS
Fracture mechanics of sublaminate cracks in composite laminates 01 p0035 N84-10218
Fracture-toughness testing of ductile cast irons
[DE83-010824] 01 p0046 N84-10294
Statistics of crack growth of a superalloy under sustained load
[AD-A130395] 01 p0095 N84-10616
Advanced experimental techniques in crack tip analysis
[AD-A130719] 01 p0095 N84-10618
Application of FRACTOMAT/KRAK GAGES to crack growth measurements in structural components
[AD-A130945] 01 p0095 N84-10620
Semielliptical cracks along holes in plates and lugs
[AD-A130786] 01 p0096 N84-10622
Fracture mechanics of sub-laminate cracks
[AD-A130782] 01 p0096 N84-10623

Feasibility of using sonic techniques to estimate in-situ stresses
[DE83-016890] 01 p0097 N84-10634
Statistical crack mechanics
[DE83-014124] 01 p0098 N84-10637
The effects of specimen size, specimen geometry and data analysis procedures on ductile crack growth resistance curves
[AERE-R-10906] 01 p0098 N84-10638
Metallurgical characterization of the fracture of several high strength aluminum alloys
[NASA-TP-1066] 02 p0189 N84-11230
Wide range weight functions for the strip with a single edge crack
[NASA-TM-83478] 02 p0231 N84-11512
Response of cracks in structural materials to short pulse loads
[AD-A131565] 02 p0231 N84-11519
Composite structural materials
[NASA-CR-174587] 03 p0347 N84-12257
Strain rate effects on ductile/brittle transitions in steels
[DE83-016906] 03 p0355 N84-12308
Interaction of a dislocation with a crack
[AD-A131912] 03 p0389 N84-12536
Mechanics of fracture under high-rate stress loading
[DE83-013770] 03 p0390 N84-12544
On the dynamic fracture of bars, beams and plates 03 p0391 N84-12552
Elastic-plastic fracture of cylindrical shells containing part-through circumferential cracks 03 p0391 N84-12553
The mechanics of delamination in fiber-reinforced composite materials. Part 1: Stress singularities and solution structure
[NASA-CR-172269] 04 p0491 N84-13221
Three-dimensional analysis of chevron-notched specimens by boundary integral method
[NASA-CR-172225] 04 p0547 N84-13607
Tensile strength of pressureless-sintered silicon nitride at elevated temperature
[NAL-TR-753] 04 p0548 N84-13611
Effects of a finite aperture on the inverse born approximation
[DE83-016086] 04 p0596 N84-13930
Research on composite materials for structural design
[AD-A134059] 05 p0645 N84-14242
Novel hard metal compositions and properties
[DE84-001736] 05 p0656 N84-14310
Surface embrittlement of ductile polymers: A fracture mechanics approach 05 p0657 N84-14321
A microscopic analysis of brittle fracture in deformable solids 05 p0691 N84-14537
Initiation, growth, and coalescence of small fatigue cracks
[AD-A133935] 05 p0692 N84-14545
Mechanical response of materials with physical defects. Part 3. A material testing program for size and rate effects
[AD-A133762] 05 p0693 N84-14548
Use of subsized specimens for evaluating the fracture toughness of irradiated materials
[DE84-001500] 05 p0693 N84-14553
Modelling particle - particle interaction at the micro scale
[AD-A133969] 05 p0744 N84-14885
Status of fiber reinforced materials 06 p0799 N84-15209
The nature of quasicleavage fracture in tempered 5.5 ni steel after hydrogen charging
[AD-A133460] 06 p0806 N84-15252
A thermodynamically consistent constitutive model for inelastic flow of materials 06 p0857 N84-15581
Material selection and structural design for safety and durability
[NLR-MP-82023-U] 06 p0862 N84-15617
Microcrack damage model of brittle rock
[DE84-002088] 06 p0879 N84-15717
Introduction to the FORTRAN 14 programs Duvorol and Contact for the solution of 3 D elastostatic half-space contact problems with and without friction
[PB83-147421] 06 p0898 N84-15833
Fracture-mechanics behavior of neutron-irradiated alloy A-286
[DE84-001467] 07 p0975 N84-16320
Energy absorption by polymer crazing
[NASA-CR-173275] 07 p0978 N84-16335
Application of kinetic fracture mechanics to life prediction for polymeric materials
[DE84-003002] 07 p0979 N84-16347
Influence of temperature on fracture behavior and mechanical properties of hot-pressed silicon nitride with different sintering aids
[BMFT-FB-T-83-166] 07 p0980 N84-16349
Line-source E-beam crystallization of silicon-on-insulator films
[DE84-003218] 07 p0999 N84-16478
Wind tunnel study of natural gas dispersion from models of pipeline fractures and measurements of source characteristics
[OUEL-1466/83] 07 p1005 N84-16516
The effect of post weld heat treatment on welds in steel structures
[VTT-RR-217] 07 p1013 N84-16570
Review of progress in quantitative NDE
[DE84-001906] 07 p1014 N84-16575
On the implications for LEFM (Linear elastic fracture Mechanics) of the 3-dimensional aspects in some crack/surface intersection problems
[AD-A134227] 07 p1016 N84-16592
A microstatistical model for carbide induced cleavage fracture --- of steels
[VTT-RR-220] 07 p1017 N84-16599
Some considerations on boundary integral equation method: A dynamic program for two-dimensional fracture mechanics problems
[OUEL-1468/83] 07 p1017 N84-16600
Space Nuclear Safety Program, March 1983
[DE84-002259] 07 p1074 N84-16981
Disclinations in carbon-carbon composites
[AD-A135248] 08 p1122 N84-17295
Crack propagation in polystyrene under fixed elongation
[AD-A134749] 08 p1138 N84-17399
Recommendations for future research on fracture mechanics life technology
[NASA-CR-170904] 08 p1169 N84-17615
A pressurized cylindrical shell with a fixed end which contains an axial part-through or through crack
[NASA-CR-173291] 08 p1169 N84-17618
A review of fracture mechanics life technology --- linear elastic fracture mechanics
[NASA-CR-170903] 08 p1170 N84-17622
A study on the tensile strength of ice as a function of grain size
[AD-A134889] 08 p1172 N84-17631
Hygrothermal effects in continuous fibre reinforced composites. Part 3: Mechanical properties 1 - static tests
[AD-A135767] 09 p1276 N84-18332
Deformation and fracture of P/M titanium alloys
[AD-A135612] 09 p1283 N84-18378
The role of hydrogen in the stress corrosion failure of high strength Al-Zn-Mg alloys
[AD-A136212] 09 p1284 N84-18388
Frictional hot-spots and statistical crack mechanics
[DE84-003784] 09 p1290 N84-18423
Fundamental approach to design and prediction of performance of forming tools 09 p1294 N84-18453
Fracture behavior under impact
[AD-A136056] 09 p1333 N84-18702
Fracture behavior under impact
[AD-A136057] 09 p1333 N84-18703
Extended experimental and theoretical investigations to quantify ductile fracture behavior, using MnMoNi 55
[MPA-82-01] 09 p1334 N84-18709
Evaluation of the crack growth gage concept as an individual aircraft tracking device, volume 2
[AD-A136933] 10 p1428 N84-19341
Fracture, longevity (fatigue), dynamics, and aeroelasticity of composite structures
[AD-A137047] 10 p1452 N84-19486
Quasi-cleavage and martensite habit plane
[AD-A137378] 10 p1459 N84-19527
Effects of fatigue on the G.P. zones in Al-Zn alloys
[AD-A137518] 10 p1459 N84-19530
Design and characterization of Mn-Al-C alloys for permanent magnet applications
[DE84-004881] 10 p1461 N84-19542
Micro and macro mechanics of fracture in ceramics
[AD-A137290] 10 p1465 N84-19572
Stress corrosion of ceramic materials
[AD-A136729] 10 p1467 N84-19581
The Shock and Vibration Digest, volume 15, no. 6
[AD-A131730] 10 p1505 N84-19841
The Shock and Vibration Digest, volume 15, no. 7
[AD-A132576] 10 p1505 N84-19845
Comparison of predicted versus experimentally-determined stresses for crack initiation of surface flaws in a 304 stainless steel and a ferritic steel
[DE84-005481] 11 p1634 N84-20680
Fracture mechanics evaluation of the static fatigue life of optical fibers in bending 11 p1727 N84-21265
Moisture and temperature effects on the mixed-mode delamination fracture of unidirectional graphite/epoxy
[DREP-TM-83-22] 12 p1789 N84-21685
Creep of carbon yarns and composites at high temperature
[AD-A138143] 12 p1790 N84-21671
Carbide formation and fracture of high carbon steel
[AD-A138519] 12 p1798 N84-21730
Modelling of deformation and fracture in high-temperature structural materials
[DE84-006452] 12 p1798 N84-21731
Engineering fabrics in transportation construction
[PB84-144856] 12 p1804 N84-21763
On the genesis of reliability models
[ARL-STRUC-REPT-393] 12 p1824 N84-21889
The development of advanced specimen testing and analysis techniques applied to fracture mechanics lifing of gas turbine components
[PNR-90179] 13 p1933 N84-22575
Micromechanics of fracture in elastomers
[AD-A138783] 13 p1964 N84-22758
Aeronautics and Space Engineering Board: Aeronautics Assessment Committee
[NASA-TM-85594] 13 p1967 N84-22771
Prediction of fatigue crack-growth patterns and lives in three-dimensional cracked bodies
[NASA-TM-85787] 13 p2000 N84-22979
Fracture toughness processes
[DE84-007244] 13 p2002 N84-22989
Ancient volcano-tectonic structures of the Olympus Mons Region, Mars 13 p2089 N84-23535
Fracture mechanics of sublaminate cracks in composite laminates
[AD-A139357] 14 p2120 N84-23706
Systematic evaluation of technical causes of damage --- fracture mechanics
[ISBN-3-88355-070-1] 14 p2125 N84-23734
Classification, causes, and characteristics of fractures 14 p2125 N84-23736
Microscopic and macroscopic appearance of ductile violent fractures (slide fractures) 14 p2125 N84-23739
Macroscopic and microscopic appearance of separation fractures 14 p2125 N84-23740
Microscopic appearance of vibratory fractures --- metal fatigue 14 p2126 N84-23742
Fracture mechanics in the analysis of damage --- crack propagation 14 p2126 N84-23749
A detailed comparison of hydrogen and mercury embrittlement in Monel 400
[AD-A139119] 14 p2127 N84-23753
Importance of properties of solids to friction and wear behaviour 14 p2153 N84-23895
Stress-intensity factor equations for cracks in three-dimensional finite bodies subjected to tension and bending loads
[NASA-TM-85793] 14 p2157 N84-23925
The impact resistance of SiC and other mechanical properties of SiC and SI3N4
[NASA-CR-165325] 15 p2301 N84-24809
Abstracts of the 20th Annual Meeting: Society of Engineering Science, Incorporated
[AD-A138155] 15 p2306 N84-24833
A united fracture kinetics representation of the three regions of stress corrosion cracking 15 p2307 N84-24842
Longitudinally stiffened composite multi-layer cylindrical shells (and rings) under internal pressure 15 p2309 N84-24855
An integral optical method for determining stress intensity factors 15 p2311 N84-24866
Review of the application of fracture mechanics: Possibilities and actual limits
[GKSS-83-E-83] 15 p2349 N84-25098
Milliwatt generator heat source
[DE84-006207] 15 p2407 N84-25447
Spectral analysis of groove spacing on Ganymede 15 p2426 N84-25570
Space radiation effects on graphite-epoxy composite materials
[NASA-TM-85478] 16 p2460 N84-25769
Influence of soft inclusions on the strength of wrought materials
[NASA-CR-173610] 16 p2464 N84-25791
Tensile fracture of ductile materials
[NASA-CR-173607] 16 p2464 N84-25792
Creep-rupture behavior of candidate Stirling engine alloys after long-term aging at 760 deg C in low-pressure hydrogen
[NASA-TM-83676] 16 p2464 N84-25793
Workshop on Dynamic Fracture held at Pasadena, California on 17-18 February 1983
[AD-A140194] 16 p2466 N84-25806
On some current problems in experimental fracture dynamics
[AD-P003102] 16 p2466 N84-25807
A plate impact experiment for studying crack initiation at loading rates K(I) approximately 10(8) MPa m/s
[AD-P003103] 16 p2466 N84-25808
Applying molecular dynamics to fracture
[AD-P003104] 16 p2467 N84-25809

Short pulse fracture mechanics
[AD-P003105] 16 p2467 N84-25810
Dynamic crack growth criteria in structural metals
[AD-P003107] 16 p2467 N84-25812
Processes controlling the dynamic fracture of brittle solids
[AD-P003108] 16 p2467 N84-25813
On crack paths
[AD-P003110] 16 p2468 N84-25815
Path-independent integrals in dynamic fracture mechanics
[AD-P003111] 16 p2468 N84-25816
Crack branching, crack arrest and rapid tearing
[AD-P003112] 16 p2468 N84-25817
Dynamic kinking and bifurcation of cracks in plane strain
[AD-P003113] 16 p2468 N84-25818
Dynamic, steady-state crack propagation in linear isotropic viscoelastic material
[AD-P003114] 16 p2468 N84-25819
Viscoelastic effect on dynamic crack propagation in Homalite 100
[AD-P003115] 16 p2468 N84-25820
Deformation of bimetallic bicrystals of Alpha-Ti/Beta-Ti-13Mn
[AD-A140263] 16 p2469 N84-25822
A dynamic fracture assessment of impact damage in structural ceramics 16 p2469 N84-25826
Synthesis of refractory compounds with gasless combustion reactions
[AD-A140296] 16 p2472 N84-25842
Application of optical methods, including optical interference, to measure the dimensional stability of resins, resin based adhesives and resin based composites
[AD-A140297] 16 p2472 N84-25843
Circumferential cracks in cylindrical shells 16 p2501 N84-26050
Dynamic fracture behavior of structural materials
[AD-A140381] 16 p2502 N84-26060
An interpretive study of plate and shell buckling
[AD-A140487] 16 p2502 N84-26062
Stress corrosion resistance of structural steels in high chloride environments
[EUR-7435] 17 p2622 N84-26781
Thermal wave imaging for non-destructive evaluation of subsurface cracks in opaque materials 17 p2676 N84-27046
An integrated boundary element analysis system with interactive computer graphics for 3-dimensional linear-elastic fracture mechanics 17 p2676 N84-27048
Matrix cracking in composites and its effects on damaged ply constitutive behavior 17 p2677 N84-27052
Numerical analysis of time-dependent inelastic fracture 17 p2677 N84-27054
The K-distributions extrapolated on the basis of stress intensity rates
[NLR-MP-83048-U] 17 p2680 N84-27073
Seismicity as stochastic process with physical parameters 17 p2700 N84-27203
Progressive fracture of fiber composites
[NASA-TM-83701] 18 p2809 N84-27831
Simplified composite micromechanics equations for strength, fracture toughness and environmental effects
[NASA-TM-83696] 18 p2809 N84-27832
Interlaminar fracture of composites
[NASA-TM-85768] 18 p2809 N84-27835
A 3-dimensional finite element analysis of delamination growth in composite laminates. Part 1: The energy methods and case-study problems
[AD-A141248] 18 p2810 N84-27838
Investigation of acoustic emission during fracture toughness testing of chevron-notched specimens
[AD-A141315] 18 p2814 N84-27865
Fracture mechanics characterization of the 15 CDV alloy at temperatures from -50 C to +20 C (welded joints). Summary of test number M4 495400 18 p2816 N84-27875
The locus of environmental crack growth in bonded aluminium alloy joints
[AERE-R-11069] 18 p2816 N84-27880
Effect of austenitisation heat treatment on the fracture resistance and temper embrittlement of MnMoNi steels
[AERE-R-11043] 18 p2816 N84-27882
Deformation and fracture maps for polymer-foams, solid polymers and polymer-composites
[AD-A141197] 18 p2818 N84-27893
Theoretical calculations of pressure vessel failure frequencies for Sizewell B transients
[AERE-R-11196] 18 p2854 N84-28125
B-scan displays of ultrasonic time-of-flight diffraction tests of compact tension specimens
[AERE-R-11010] 18 p2854 N84-28126
Hygrothermomechanical fracture stress criteria for fiber composites with sense-parity
[NASA-TM-83691] 19 p2965 N84-28918
Creep damage mechanics and micromechanisms
[NPL-DMA(A)-77] 19 p3034 N84-29243
Spartan Release Engagement Mechanism (REM) stress and fracture analysis
[NASA-CR-173779] 19 p3034 N84-29244
Three-dimensional finite-element analysis of chevron-notched fracture specimens
[NASA-TM-85798] 19 p3035 N84-29249
Determination of failure characteristics of materials and structures
[AD-A142310] 19 p3037 N84-29262
Fragmentation under impulsive stress loading
[DE84-006341] 19 p3037 N84-29263
Fracture initiation in glass-reinforced plastics under impact compression
[OUEL-1516/84] 19 p3037 N84-29265
Stress-corrosion crack-growth study of titanium alloy Ti-6Al-4V exposed to Freon PCA and nitrogen tetroxide MON-1 20 p3138 N84-29923
Fatigue and Fracture Branch: A compendium of recently completed and on-going research projects
[NASA-TM-85825] 20 p3201 N84-30331
Nonlocal continuum theory for dislocation and fracture
[AD-A142538] 20 p3202 N84-30340
Failure analysis of plasma-sprayed thermal barrier coatings
[NASA-TM-83777] 21 p3365 N84-31347
The effects of deformation mode and microstructure fracture-related properties of Ti alloys
[AD-A142891] 21 p3366 N84-31353
Fracture mechanics formulas on microcomputers
[CETIM-100960] 21 p3424 N84-31722
Retrogenesis of the Basal Zone of the Stillwater Complex, Montana 21 p3439 N84-31818
Statistics of fracture of composite materials under multiaxial loading 22 p3544 N84-32433
Weldability of steels: Study of cracking and methods of examination
[BLL-RISLEY-TRANS-4519-(9091.9)] 22 p3550 N84-32475
Textile ballistic performance (data base)
[AD-A143249] 22 p3560 N84-32541
Application of elastic wave scattering theory to the detection and characterization of flaws in structural materials
[DE84-013729] 22 p3607 N84-32852
On the mechanics of fatigue crack growth due to contact loading 22 p3608 N84-32859
Opening of an interface flaw in a layered elastic half-plane under compressive loading
[NASA-TM-86282] 22 p3611 N84-32877
The need for biaxial fatigue testing at A.R.L.
[AD-A143203] 22 p3611 N84-32878
Evaluation of the effects of stress state and interfacial properties on the behavior of advanced metal matrix composites
[AD-A143911] 23 p3711 N84-33525
General condition of the limiting state for isotropic materials
[ISSN-0208-5658] 23 p3712 N84-33530
The effect of internal hydrogen on near-threshold fatigue crack propagation in iron base systems 23 p3717 N84-33560
Embrittlement of 4340 type steel by liquid lead and antimony and lead-antimony solutions
[AD-A143785] 23 p3718 N84-33567
Some inherently 3-dimensional problems in linear elastic fracture mechanics 23 p3759 N84-33828
Mechanical response of ceramics to creep loading 23 p3760 N84-33830
Evaluation of COD (Crack-Opening-Displacement) compliance determined crack growth rates
[AD-A144037] 23 p3761 N84-33838
USSR report: Materials science and metallurgy, no. 94
[JPRS-85025] 24 p3868 N84-34512
An approach for estimating the impact of carbon-reinforced plastic 24 p3868 N84-34515
Fracture toughness of crystalline and composite superhard materials 24 p3868 N84-34516
Structure and properties of amorphous powder material after explosive loading 24 p3870 N84-34526
Fracture mechanism of carbon and boron reinforced plastics with shear between layers 24 p3872 N84-34539
Failure of aluminum alloy in the presplitting stage 24 p3874 N84-34549
Erosion mechanisms of metals
[AD-A144194] 24 p3884 N84-34605
Fracto-emission from polymers
[AD-A144149] 24 p3888 N84-34622
Analysis of fatigue crack propagation of structural steel members subjected to variable amplitude fatigue stress 24 p3957 N84-35055

FRACTURE RESISTANCE

U FRACTURE STRENGTH

FRACTURE STRENGTH

Sharp PC-1500 pocket computer solutions to composite materials formulas
[AD-A130421] 01 p0031 N84-10193
Computation of influence of defects on static and fatigue strength of composites 01 p0034 N84-10217
Effect of defects on aircraft composite structures 01 p0035 N84-10221
Research on microstructurally developed toughening mechanisms in ceramics
[AD-A130394] 01 p0049 N84-10316
Fracture behavior of unirradiated HT-9 and modified 9Cr-1Mo welds
[DE83-016021] 01 p0066 N84-10636
Hydrogen embrittlement of a 12 Cr-1 Mo steel
[DE83-016781] 02 p0195 N84-11270
Single specimen J-integral testing
[DE83-016069] 03 p0390 N84-12543
La Recherche Aerospatiale, Bimonthly Bulletin, no. 1982-5, 210/September-October 1982
[ESA-TT-785] 04 p0477 N84-13142
Degradation of fracture toughness in steels due to prior strain: A predictive model
[AD-A132600] 05 p0654 N84-14300
Optimization of SiC-based materials
[BMFT-FB-T-83-161] 05 p0661 N84-14343
Fracture toughness of fiber reinforced concrete
[AD-A133609] 05 p0692 N84-14547
Comparison of fracture-toughness measurements from ferritic-steel compact-tension and surface-flawed specimen
[DE84-000895] 06 p0804 N84-15240
Fracture resistance of hardened and tempered pipes of 16GFR steel
[BLL-M-35268-(5828.4)] 06 p0857 N84-15584
Plane strain fracture toughness of polyethylene pipe materials
[MIT-RR-R82-2] 06 p0857 N84-15586
Refined test methods in evaluating brittle material strengths
[AD-A133596] 06 p0861 N84-15610
Crack healing in polymers
[AD-A134468] 07 p0979 N84-16343
Transformation toughened and whisker reinforced ceramics
[DE84-003281] 07 p0979 N84-16348
Silicon nitride joining
[AD-A136547] 09 p1287 N84-18404
Compressive strength and damage mechanisms in partially stabilized zirconia
[AD-A137513] 10 p1459 N84-19529
Fracture toughness of ferritic alloys irradiated in HFIR
[DE84-004594] 10 p1462 N84-19547
Fatigue and fracture toughness in aluminum
[NLR-MP-82058-U] 10 p1483 N84-19556
Micro and macro mechanics of fracture in ceramics
[AD-A137290] 10 p1485 N84-19572
Evaluations of the Irwin (ALPHA) sub Ic adjustment for small specimen fracture toughness data
[DE84-003292] 10 p1518 N84-19936
Fracture behavior of thick, laminated graphite/epoxy composites
[NASA-CR-3784] 11 p1627 N84-20648
Fatigue resistance and microstructure of experimental dual phase Fe/2Si/0.1C steel
[DE84-004314] 11 p1635 N84-20692
A pseudo-elastic material damage model involving local stiffness change and crack growth 11 p1667 N84-20873
Alterant geophysical tomography
[DE84-004794] 11 p1671 N84-20907
Moisture and temperature effects on the mixed-mode delamination fracture of unidirectional graphite/epoxy
[DREP-TM-83-22] 12 p1789 N84-21685
Hygrothermal influence on delamination behavior of graphite/epoxy laminates
[NASA-TM-85935] 12 p1826 N84-21904
Investigation of the strength of a flycatcher wheel suspension
[IWECO-5075410-83-01] 12 p1827 N84-21912
Modes of deformation and failure of Kevlar 49 fibers and composites
[DE84-004162] 13 p1954 N84-22706
Fracture toughness processes
[DE84-007244] 13 p2002 N84-22989
Fatigue damage - strength relationships in composite laminates, volume 2
[AD-A139241] 14 p2120 N84-23704
Fracture temperature and flaw growth in nitronic 40 at cryogenic temperatures
[NASA-TP-2312] 14 p2127 N84-23750

Fracture toughness and corrosion properties of the aluminum plate alloys 7010-T651 and 7150-T6E189
[NLR-TR-82125-U] 15 p2296 N84-24781
Draft standard method of test for plane-strain stress-corrosion-cracking resistance of metallic materials in marine environments
[AD-A139752] 15 p2297 N84-24785
A probabilistic theory for the strength of discontinuous fibre composites 15 p2308 N84-24848
Crack-growth resistance of laminated hybrid composites 15 p2311 N84-24868
Dislocation shielding model of fracture toughness
[DE84-007539] 15 p2351 N84-25111
Middle East Technical University Journal of Pure and Applied Sciences, volume 15, no. 2 15 p2401 N84-25406
The effect of loading rate and temperature on fracture initiation toughness in a low strength steel 15 p2401 N84-25410
Dynamic stress analysis of smooth and notched fiber composite flexural specimens
[NASA-TM-83694] 16 p2460 N84-25770
Investigations made to improve the cold-cracking and the fracture behavior of welded joints in high-strength structural steels
[BMFT-FB-T-84-034] 16 p2466 N84-25803
Experimental investigation of delaminations in carbon fiber composite
[MBB-FE-214/S/PUB/107] 16 p2562 N84-26434
The effects of moisture on fracture toughness and thermal relaxation of stretched acrylic plastics
[AD-P003197] 17 p2591 N84-26610
An improved acrylic sheet material with enhanced craze resistance
[AD-P003203] 17 p2592 N84-26616
Development of sintered Si3N4 for high performance thermomechanical applications
[AD-A140795] 17 p2627 N84-26807
Progressive fracture of fiber composites
[NASA-TM-83701] 18 p2809 N84-27831
Simplified composite micromechanics equations for strength, fracture toughness and environmental effects
[NASA-TM-83696] 18 p2809 N84-27832
Interlaminar fracture of composites
[NASA-TM-85768] 18 p2809 N84-27835
Investigation of acoustic emission during fracture toughness testing of chevron-notched specimens
[AD-A141315] 18 p2814 N84-27865
Effect of austenitisation heat treatment on the fracture resistance and temper embrittlement of MnMoNi steels
[AERE-R-11043] 18 p2816 N84-27882
The role of chemical bonding in adhesion
[AD-A140937] 18 p2818 N84-27891
Transformation plasticity in high-strength materials
[DE84-008655] 19 p2966 N84-28622
Effects of surface flaws on impact resistance of uncoated polycarbonate
[AD-A141364] 19 p2998 N84-28998
Elastic-plastic fracture toughness testing methods
[AD-A142033] 19 p3036 N84-29259
Synthesis and toughness properties of resins and composites 20 p3146 N84-29973
The effects of strain rate and temperature on the fracture behavior of three structural adhesives
[AD-B084418] 20 p3164 N84-30097
Residual strength of five boron/aluminum laminates with crack-like notches after fatigue loading
[NASA-CR-3815] 21 p3357 N84-31280
Improvements in mechanical properties in SiC by the addition of TiC particles
[DE84-012352] 21 p3358 N84-31297
Thermal shock: High temperature high energy rate testing
[DE84-014147] 22 p3612 N84-32686
A characterization of the fracture behavior of thick, notched, laminated graphite-epoxy composites 23 p3710 N84-33519
The influence of grain structure, testing temperature and environment on the monotonic and low cycle fatigue behavior of a high strength aluminum-copper-lithium alloy 23 p3716 N84-33556
Fracture toughness of irradiated HT-9
[DE84-013935] 23 p3719 N84-33578
Engineering property comparisons of Powder Metallurgy (PM) alloy X7901-T7E69 and Ingot Metallurgy (IM) alloy forgings
[NLR-MEMO-SM-83-050-U] 23 p3720 N84-33583
Mechanics of microcrack toughening in ceramics 23 p3760 N84-33831
High temperature ceramic interface study
[NASA-CR-174728] 23 p3836 N84-34331
Fracture toughness of crystalline and composite superhard materials 24 p3868 N84-34516
Melt-flow-toughness modified polyimide
[NASA-CASE-LAR-13135-1] 24 p3887 N84-34616
Strengthening and strength uniformity of structral ceramics
[AD-A144302] 24 p3889 N84-34625

FRACTURE TOUGHNESS
U FRACTURE STRENGTH

FRACTURES (MATERIALS)
Fractographic analysis of failures in CFRP 01 p0033 N84-10204
Electron-microscope observation of crack propagation and a dislocation model of fracture
[DE83-014623] 03 p0389 N84-12540
Fracture and contact problems for linearly viscoelastic material
[AD-A135111] 08 p1170 N84-17624
Evaluations of the Irwin (ALPHA) sub Ic adjustment for small specimen fracture toughness data
[DE84-003292] 10 p1518 N84-19936
Edge crack growth of thermally aged graphite/polyimide composites
[NASA-TM-85763] 12 p1789 N84-21667
Shear-lag analysis of notched laminates with interlaminar debonding
[NASA-CR-3798] 14 p2119 N84-23697
Procedure of treating a case of damage — fractures 14 p2125 N84-23735
Classification, causes, and characteristics of fractures 14 p2125 N84-23736
Materials investigations — fracture mechanics 14 p2125 N84-23737
Electron microscopy for damage analysis — fractures 14 p2125 N84-23738
Microscopic and macroscopic appearance of ductile violent fractures (slide fractures) 14 p2125 N84-23739
Macroscopic and microscopic appearance of separation fractures 14 p2125 N84-23740
Macroscopic appearance of vibratory fractures — metal fatigue 14 p2126 N84-23741
Thermally induced fractures 14 p2126 N84-23743
Status of understanding for bearing materials 15 p2342 N84-25060
Time dependent quasifracture nucleation and propagation 15 p2349 N84-25097
Influence of microstructure, stress-state and environment on superplastic flow and fracture in glass-ceramics 17 p2677 N84-27050
Modeling anisotropic properties of media with oriented fractures 17 p2706 N84-27234
Materials Research Laboratory report
[AD-A140898] 17 p2769 N84-27580
Weldability of 2BT-treated 9Ni steel with ferritic filler metal
[DE84-006492] 18 p2815 N84-27869
Identification of strain-softening properties and computational predictions of localized fracture
[AD-A141866] 19 p3036 N84-29258
Nonlinear Structural Analysis
[NASA-CP-2297] 21 p3419 N84-31688
Inelastic and dynamic fracture and stress analyses 21 p3421 N84-31697
Review of the strength of brittle rock materials 23 p3722 N84-33586
Some aspects of the deformation and brittle destruction of elastooptic materials 23 p3722 N84-33587
Experimental investigation of the effect of electrets on bone healing 23 p3809 N84-34150
Relationship of structure with cyclic crack resistance of Alpha-titanium alloys 24 p3875 N84-34557
Fracture modes in notched angleplied composite laminates
[NASA-TM-83802] 24 p3878 N84-34576

FRACTURING
NT CRUSTAL FRACTURES
Microearthquakes induced during hydraulic fracturing at the Fenton Hill HDR site: The 1982 experiments
[DE83-014191] 03 p0408 N84-12672
Investigation of static and dynamic fracture of orthotropic media by photomechanics 06 p0863 N84-15625
Acoustic emission determination of deformation mechanisms leading to failure of naval alloys, volume 1
[AD-A135387] 08 p1171 N84-17626
Acoustic emission determination of deformation mechanisms leading to failure of naval alloys, volume 2
[AD-A135388] 08 p1171 N84-17627
Mechanical and transport properties of rocks at high temperatures and pressures. Task 3. Mechanical properties of rocks at high temperatures and pressures
[DE84-003436] 08 p1188 N84-17740
Characteristics of the mechanical properties and the fractures of an alpha beta titanium alloy
[AD-A136144] 09 p1284 N84-18386
Comparison of predicted versus experimentally-determined stresses for crack initiation of surface flaws in a 304 stainless steel and a ferritic steel
[DE84-005481] 11 p1634 N84-20680
Metamorphic fluids and uplift-erosion history of a portion of the Kapuskasing structural zone, Ontario, as deduced from fluid inclusions 11 p1680 N84-20962
Specifics of processes of deformation and microfracture of amorphous iron-based alloys 12 p1788 N84-21662
Classification, causes, and characteristics of fractures 14 p2125 N84-23736
Macroscopic and microscopic appearance of separation fractures 14 p2125 N84-23740
Observations on the fracture of fiberous composites 15 p2311 N84-24865
Tube waves recorded in a seismic crosshole experiment
[FOA-C-20521-E1] 15 p2368 N84-25208
Study of the influence of metallurgical factors on fatigue and fracture of aerospace structural materials
[AD-A140659] 17 p2623 N84-26789
Deformation and fracture studies of polymers in the scanning electron microscope 17 p2626 N84-26802
The statistical theory of the fracture of fragile bodies. Part 2: The integral equation method
[NASA-TM-77449] 19 p3035 N84-29250
Analysis of fracture modes during extrusion and drawing of bimetal rods or wire
[DE84-009849] 20 p3157 N84-30051
Effect of precipitated austenite on the fracture of a ferritic cryogenic steel
[DE84-014604] 22 p3557 N84-32521
Diagensis and deformation of the Madison Group, Colorado and Utah overthrust belt 22 p3620 N84-32938
Fatigue crack growth in vacuum and in gaseous media 24 p3870 N84-34529

FRAGMENTATION
Statistical crack mechanics
[DE83-014124] 01 p0098 N84-10637
Mechanics of fracture under high-rate stress loading
[DE83-013770] 03 p0390 N84-12544
Statistical calculation of complete events in medium-energy nuclear collisions
[DE83-015951] 03 p0434 N84-12847
Theoretical studies in molecular fragmentation: Processes, energetics and diagnostics
[AD-A134006] 05 p0743 N84-14884
Ablation effects in oxygen-lead fragmentation at 2.1 GeV/nucleon
[NASA-TM-85704] 07 p1074 N84-16977
Dynamic fragmentation of ferroelectric ceramics using the torsional Kolsky bar
[DE84-003726] 09 p1289 N84-18415
An abrasion-ablation model description of galactic heavy-ion fragmentation
[NASA-TP-2305] 12 p1903 N84-22396
Energy and statistical effects in the dynamic fragmentation of metal rings
[DE84-005458] 14 p2126 N84-23760
Experimental studies in molecular fragmentation: Processes, energetics and diagnostics
[AD-A136848] 18 p2810 N84-27840
Size distribution of fragments forming during solid body destruction 18 p2863 N84-28175
History of on-orbit satellite fragmentations
[NASA-CR-171814] 24 p3859 N84-34461

FRAGMENTS
Impact and explosion crater ejecta, fragment size, and velocity
[NASA-CR-174578] 05 p0733 N84-14813
Regression analysis of fragment perforation data
[PML-1982-4] 12 p1821 N84-21873
A numerical study of shock initiation of composition-b by high-speed impact of small steel projectiles
[AD-A139629] 15 p2303 N84-24821

FRAMES
NT AIRFRAMES
NT CHASSIS
NT UNDERCARRIAGES
Seismic behavior of steel bent-bracing system
[PB83-224840] 01 p0061 N84-10399
Plastic deformations of a portable frame under short pulse loading on one column by an approximate method including effects of elasticity and plastic rate sensitivity 03 p0387 N84-12521
New elements for analysis of space frames with tapered members 05 p0695 N84-14561
Design concepts for low-cost composite engine frames
[NASA-TM-83544] 07 p0954 N84-16186
Nonlinear geometric, material and time dependent analysis of reinforced concrete shells with edge beams
[PB84-104454] 08 p1173 N84-17639
Study of burnout frame rockets. 1: Study of small rocket with burnout frame for weather modifications
[NAL-TR-764] 09 p1274 N84-18319
Radomes for flight vehicles
[AD-A140174] 16 p2483 N84-25920

Post-buckling behavior of elastic frame structures
17 p2679 N84-27062
Purdue plane structures analyzer 2: A computerized wood engineering system, 1983 version
[AD-A142042] 19 p3078 N84-29533
Formulation of stiffness matrices for elastic buckling of thin-walled open section prismatic columns
[TT-8402] 20 p3204 N84-30353
System identification of structures with joint rotation
[PB84-192210] 20 p3205 N84-30357
Strength and stiffness of AISC type 2 steel frames
21 p3416 N84-31666
The post-buckling equilibrium and the dynamic collapse of complex hyperstatic pin-jointed lattices and reticulated shells 21 p3417 N84-31667
Nonlinear elastic stability analysis of plane frames
22 p3607 N84-32853
Fuel cell stack with internal manifolds for reactant gases
[DE84-014662] 23 p3743 N84-33729
Mounting arrangement for an inertial measurement unit
[AD-D011148] 23 p3750 N84-33770

FRAMES (DATA PROCESSING)

Logic programming and knowledge base maintenance
[AD-A137062] 10 p1564 N84-20245

FRAMING CAMERAS

Study of potential standardization of digital freeze frame video codecs
[AD-A141278] 18 p2829 N84-27962
High image quality sub 100 picosecond gated framing camera development
[DE84-008326] 19 p3028 N84-29203

FRANCE

Contribution of satellite remote sensing to knowledge of the littoral from the mouth of the Loire to that of the Gironde (France) 03 p0396 N84-12584
Application of high resolution satellite data to coastal zones: SPOT simulations during ecological survey of the Britanny coast 03 p0397 N84-12591
Interpretability of wetland on SEASAT-A imagery in the polderland of Flanders: A structural approach
03 p0397 N84-12597
Actual state and recent evolution of the French coast observed by remote sensing using LANDSAT recordings
03 p0399 N84-12606
Proceedings of the 3rd Tripartite Conference on Submarine Medicine: France, United Kingdom and the United States
[AD-A133150] 06 p0889 N84-15777

FRANCK-CONDON PRINCIPLE

Photoelectron studies of excited molecular states: H2 C (1)Pi(sub u) and N2 o3 (1)Pi(sub u)
[DE84-006663] 20 p3294 N84-30917
Photoionization of excited molecular states using multiphoton excitation techniques
[DE84-004034] 20 p3296 N84-30925
A simple DWBA (Franck-Condon) treatment of H-atom transfers between two heavy particles
[AD-A143867] 23 p3822 N84-34236
Ground-state properties and optical excitations of a solvated electron in molten alkali halides
[DE84-701191] 24 p3881 N84-34587

FRAUNHOFER LINES

Feasibility study on the application of Fabry-Perot interferometry and imaging photon detectors to ocean colour monitoring
[OMD/HVM-83] 23 p3784 N84-34002

FRAUNHOFER REGION

U FAR FIELDS

FREDHOLM EQUATIONS

Solution manifolds and submanifolds of parametrized equations and their discretization errors
[AD-A130186] 01 p0131 N84-10857
Quasicon formal extensions, Fredholm eigenvalues, and Grunsky coefficient conditions 04 p0577 N84-13804
Deconvolution of aberrations in optical systems
[AD-A138096] 12 p1907 N84-22425
Multiple limit point bifurcation for Fredholm operators of non-zero index
[AD-A141660] 19 p3086 N84-29589
Multiple grid methods for equations of the second kind with applications in fluid mechanics
[MATH-CENTRE-TRACTS-163]
21 p3474 N84-32018

FREDHOLM OPERATORS

U FREDHOLM EQUATIONS
U OPERATORS (MATHEMATICS)

FREE BOUNDARIES

Asymptotic expansions of the pressure and the free boundary for flows through porous media
[PREPRINT-584] 02 p0221 N84-11448
Numerical methods for free boundary problems and 2 phase flows
[AD-A131374] 02 p0280 N84-11835
A coordinate transformation for the porous media equation that renders the free-boundary stationary
[AD-A132639] 05 p0737 N84-14842
Experimental techniques for free edges of turbulent flows 06 p0837 N84-15450
Dynamics of freely ascending convective jets initiated by active admixture 11 p1689 N84-20893
A boundary modulus of continuity for a class of singular parabolic equations
[AD-A138019] 12 p1893 N84-22331
Free-boundary stability of straight stellarators
[DE84-006272] 14 p2230 N84-24378

FREE CONVECTION

NT BENARD CELLS
Steady laminar natural convection in open rectangular cavities 03 p0375 N84-12441
Automated data reduction for optical interferometric data
[DE83-012075] 03 p0377 N84-12457
Mixed convection and stratification phenomena in liquid metals 06 p0842 N84-15488
Turbulence modeling in liquid metal free convection — in reactor cooling systems 06 p0842 N84-15490
Manufacturing in space: Fluid dynamics numerical analysis
[NASA-CR-175401] 10 p1491 N84-19748
Geothermal resources of southern Idaho
[USGS-CIRC-866] 14 p2168 N84-23988
Single Doppler velocity signatures: An Atlas of patterns in clean air/widespread precipitation and convective storms
[PB84-155779] 14 p2181 N84-24063
Effects of nozzle and grid acceleration of corona wind on cooling of a vertical flat plate
[AD-A141224] 18 p2837 N84-28007
Unsteady laminar natural convection inside an annular cavity
[CFD-83/8] 18 p2838 N84-28014
Boundary-layer linear stability theory
23 p3748 N84-33759

FREE ELECTRON LASERS

Design and operation of a collective millimeter-wave free-electron laser
[AD-A131628] 01 p0087 N84-10568
A study of the angular radiation of Smith-Purcell radiation
[AD-A130095] 01 p0141 N84-10925
High-efficiency free-electron-laser experiments
[DE83-015218] 02 p0227 N84-11487
Inverse free-electron laser accelerator
[DE83-016370] 02 p0228 N84-11493
Subharmonic buncher for the Los Alamos free-electron laser oscillator experiment
[DE83-015220] 03 p0380 N84-12474
Electron-beam diagnostics for the Los Alamos free-electron oscillator experiment
[DE83-017230] 03 p0381 N84-12481
Evolution of long pulses in a tapered wiggler free-electron laser
[DE83-017235] 03 p0381 N84-12484
The Los Alamos free-electron-laser oscillator experiment: Plans and present status
[DE83-017290] 03 p0382 N84-12485
Free-electron-laser research
[DE83-016957] 03 p0382 N84-12489
Simulation of a high-gain tapered-wiggler free-electron laser
[DE84-001237] 04 p0540 N84-13557
New concepts in particle acceleration
[DE83-017747] 04 p0600 N84-13961
Scientific program and abstracts
[DE83-017620] 04 p0601 N84-13967
Conceptual design of a 300-GeV accelerator based on the inverse free-electron laser mechanism
[DE84-001471] 04 p0601 N84-13969
High gain free electron laser at ETA
[DE84-002001] 05 p0686 N84-14512
A low loss quasioptical cavity for a two-stage Free Electron Laser (FEL)
[AD-A133321] 06 p0850 N84-15541
Limiting energy spread at high laser intensities using phase space displacement
[AD-A133322] 06 p0850 N84-15542
Theory of pulse propagation and coherence in free electron
[AD-A133334] 06 p0850 N84-15544
Two-stage FEL (Free Electron Laser) program
[AD-A133508] 06 p0850 N84-15546
Wave-particle interactions on relativistic electron beams
[AD-A134270] 07 p1009 N84-16545
Some comments on the design of electron storage rings for free electron lasers
[DE84-002869] 07 p1010 N84-16553
Free electron laser with versatile polarization capability
[DE84-002889] 07 p1011 N84-16557
The evolution of spontaneous and coherent radiation in the free electron laser oscillator
[AD-A134458] 08 p1165 N84-17583
Radially resolved simulation of a high-gain free electron laser amplifier
[DE84-003751] 08 p1165 N84-17585
Nonlinear resonance
[AD-A135117] 08 p1218 N84-17950
Theoretical studies on free electron lasers
[AD-A136333] 09 p1321 N84-18627
Investigation of optimum magnet geometries for gain-expanded free-electron lasers
[AD-A136494] 09 p1321 N84-18634
Nonlinear orbits in free-electron lasers with a linear magnetic wiggler and a strong axial magnetic guide field
[AD-A135984] 09 p1323 N84-18642
New high power coherent radiation sources
[AD-A137317] 10 p1479 N84-19662
Proposal for a free electron laser in the X-ray region
[DE84-004735] 10 p1501 N84-19808
Transverse mode dynamics in a free electron laser
[AD-A137738] 11 p1662 N84-20846
Experimental investigation of the characteristics of an ultraviolet storage ring laser
[AD-A137751] 11 p1662 N84-20847
New results of the ACO storage ring free electron laser
[AD-A137785] 11 p1663 N84-20848
Evolution of the transverse modes in a FEL (Free Electron Lasers), and application to the Orsay experiment
[AD-A137797] 11 p1663 N84-20849
First operation of the Los Angeles free-electron laser oscillator
[DE84-006024] 11 p1664 N84-20856
Microwave emission from relativistic electron beams
[AD-A137752] 11 p1730 N84-21285
Progress and problems in storage ring free electron lasers
[AD-A138683] 13 p1995 N84-22946
Anomalous laser induced bunch lengthening on the ACO storage ring free electron laser
[AD-A138814] 13 p1995 N84-22949
Review of free electron laser theory and experiments
[DE84-007232] 13 p1996 N84-22954
UV and VUV degradation of very high reflectivity mirrors for use in a storage ring free electron laser
[AD-A138740] 13 p2043 N84-23255
Study of gain, bandwidth, and tunability of a millimeter-wave free-electron laser operating in the collective regime
[AD-A139285] 14 p2151 N84-23884
A high-gain 35 GHz free-electron laser amplifier experiment
[AD-A139593] 14 p2151 N84-23886
Collective instabilities and high-gain regime free electron laser
[DE84-008172] 15 p2340 N84-25045
Investigations of vacuum ultraviolet and soft X-ray lasers
[AD-A140362] 16 p2497 N84-26024
Long range coherence in free electron lasers
[NASA-CR-173678] 18 p2845 N84-28066
Wavelength selection for a ground based free electron laser weapon system
[AD-A141157] 18 p2846 N84-28072
Uniform magnetic-field-induced free-electron laser in a waveguide
[AD-A141195] 18 p2846 N84-28073
Technology development for tapered-wiggler free-electron lasers
[AD-A142319] 19 p3029 N84-29213
Capabilities of broadly-tunable free-electron lasers
[DE84-009998] 19 p3030 N84-29219
Orbital stability in combined uniform axial and three-dimensional wiggler magnetic fields for free-electron lasers
[NASA-TM-83753] 20 p3192 N84-30273
Free electron lasers and related topics
[DE84-011332] 20 p3193 N84-30277
Electron beam diagnostic for the Los Alamos free electron laser oscillator experiment
[DE84-011348] 20 p3193 N84-30278
The XUV/VUV free-electron laser oscillator
[DE84-011347] 20 p3193 N84-30279
Thomson backscattering from an intense relativistic electron beam as a diagnostic for a free electron laser
[AD-A143027] 21 p3409 N84-31623
Short wavelength optics for future free electron lasers
[DE84-012316] 21 p3410 N84-31626
Measurement of the transverse mode excitation in the stimulated emission of the ACO free electron laser
[AD-A143449] 22 p3601 N84-32808

The theory of free electron lasers
[INPE-3158-TDL/170] 23 p3753 N84-33790
Analyses on the low voltage free electron laser
[AD-A143681] 23 p3754 N84-33796
Tapered-wiggler free-electron laser oscillator program
[AD-A144053] 23 p3755 N84-33799
The Gain-Spread-Excitation theorem
[AD-A144447] 24 p3951 N84-35020

FREE ELECTRONS
Analysis of the performance of the free electron bolometer
[AD-A134139] 07 p1008 N84-16533
Study of gain, bandwidth, and tunability of a millimeter-wave free-electron laser operating in the collective regime
[AD-A139285] 14 p2151 N84-23884
Cyclotron bistability of electrons in vacuum and semiconductors 14 p2235 N84-24418
Investigation of nonlinear optical properties of semiconductors
[AD-A139227] 14 p2242 N84-24459
Variation of carrier concentration caused by band structure reconstruction in tellurium and tin-doped Al(x)Ga(1-x)As solid solutions 17 p2636 N84-26861
Plasma dynamics 22 p3683 N84-33354

FREE ENERGY
Review of some recent theoretical calculations of phase transitions and comparisons with experimental results
[DE83-015863] 03 p0453 N84-12983
Polarization bistability in cholesteric liquid crystals 14 p2236 N84-24420
Inner-sphere reorganization in optical electron transfer
[AD-A139722] 15 p2405 N84-25435
Interfacial interaction and adhesion in composite materials 20 p3144 N84-29961
Solvation and dielectric dispersion in optical electron transfer
[AD-A144183] 24 p3880 N84-34580

FREE FALL
New techniques for absolute gravity measurements
[AD-A129285] 02 p0248 N84-11625
Numerical aerodynamic analysis of a free falling autorotating plate
[AD-A136900] 14 p2102 N84-23612

FREE FLIGHT
Path correction of free flight projectiles by cross firing of subsidiary projectiles
[FOA-C-20468-D3] 07 p0962 N84-16236
APL/JHU free flight tests of the general purpose heat source module. Testing: 5-7 March 1984
[DE84-011065] 20 p3299 N84-30948

FREE FLIGHT TEST APPARATUS
Influence of measuring section parameters on the results of a flight-mechanical system identification 07 p0944 N84-16125
General Integrated Multipurpose Inflight Calibration System (GIMICS) 24 p3851 N84-34420

FREE FLOW
An analytical method to calculate the flow field about blunt bodies of revolution at incidence in supersonic free stream flow
[CSIR-NIAST-82/72] 04 p0479 N84-13156
Internal pressure distributions for a two-dimensional thrust-reversing nozzle operating at a free-stream Mach number of zero
[NASA-TM-85655] 04 p0480 N84-13161
Response of flame spread phenomena to ambient air stream velocity changes 04 p0514 N84-13373
Asymmetric turbulent flows 06 p0837 N84-15451
The accuracy of the finite difference computations of recirculating free convective flows 06 p0839 N84-15471
On an extension of free stream-line theory
[NAL-TR-772] 09 p1313 N84-18580
Movement of free-flowing materials in aerodynamic controlled-feed gate 09 p1324 N84-18652
Experimental investigation of the internal flow field in STOL engine inlets 13 p1927 N84-22544
A numerical study of the controlled flow tunnel for a high lift model
[NASA-CR-166572] 16 p2438 N84-25642
Environment and receptivity 23 p3748 N84-33760
Using an airborne CO2 CW laser for free stream airspeed and windshear measurements 24 p3850 N84-34417

FREE JETS
Rotational temperature measurements in free jet expansions of N2 using the electron beam fluorescence technique 07 p0984 N84-15376
Computation of strongly swirling axi-symmetric free jets
[KU-SFB-80/T/216] 07 p1004 N84-16512
Investigation of free jets issued from small solid propellant rocket engines 08 p1121 N84-17290
Hot wire in low Reynolds number flow 08 p1237 N84-18067
Remarks on the layout of the subsonic free jet wind tunnels
[NASA-TM-77326] 09 p1258 N84-18214
Calculations of intermittency in self-preserving, free turbulent jets and wakes
[CFD/83/10] 15 p2332 N84-25006
Three component velocity measurements using Fabry-Perot interferometer
[NASA-TM-83692] 16 p2495 N84-26010
An investigation of the interaction of vortex rings and a laminar free jet flow
[MPIS-16/1983] 18 p2837 N84-28009
Freejets of rotationally relaxing diatomic gases 20 p3169 N84-30119
Visualization for a free jet by a laser induced fluorescence method and its structure 20 p3169 N84-30120
Prediction of the temperature characteristics in intermittent, free turbulent shear layers
[CFD/84/1] 20 p3188 N84-30256

FREE MOLECULAR FLOW
The kinetic theory of gases with applications in rarefied gas dynamics
[PREPRINT-746] 02 p0221 N84-11449

FREE OSCILLATIONS
U FREE VIBRATION

FREE RADICALS
NT HYDROXYL RADICALS
Study of the interaction of organomagnesium compounds with the salts of heavy metals and the use of organomagnesium compounds and their complexes as initiators of polymerization
[BLL-M-28720-(5828.4)] 02 p0198 N84-11292
Free-radical and ion chemistry of volatile silanes, germanes, and phosphines
[DE83-016389] 03 p0350 N84-12277
The Role of Oxygen Radicals in Biology and Medicine
[AD-A133053] 05 p0712 N84-14663
Investigations of radical-radical reactions using a far infrared Laser Magnetic Resonance (Fir-LMR) spectrometer
[MPIS-4/1983] 13 p1958 N84-22730
Research into the thermal decomposition of selected energetic material candidates (Project order ATL-2-094)
[AD-A138730] 13 p1966 N84-22770
Laser probes of propellant combustion chemistry
[AD-A140767] 17 p2628 N84-26814
Chemistry of energetic fragments: Hypovalent radicals
[AD-A143269] 22 p3547 N84-32453

FREE STREAM EFFECTS
U FREE FLOW

FREE STREAMS
U FREE FLOW

FREE VIBRATION
Aeroelastic analysis of a Darrieus type wind turbine blade with troposkien geometry 06 p0863 N84-15623
Turbomachine blade vibration 10 p1505 N84-19839
Free oscillations of ideal stratified fluid in container 21 p3480 N84-32058

FREEZE DRYING
A method for producing nutritionally dense freeze dried food bars
[AD-D011052] 23 p3811 N84-34166

FREEZING
NT ZONE MELTING
A statistical examination of the effect of composition on the freezing points of hydro-carbon mixtures
[AD-A131000] 02 p0203 N84-11321
Aerostat icing problems
[AD-A133403] 06 p0810 N84-15272
Revised procedure for pavement design under seasonal frost conditions
[AD-A134480] 07 p0986 N84-16384
Transport of water in frozen soil. I: Experimental determination of soil-water diffusivity under isothermal conditions
[AD-A135419] 08 p1177 N84-17671
Experimental results for the rapid determination of the freezing point of fuels
[NASA-CR-168305] 09 p1290 N84-18419
Diurnal freeze-thaw frequencies in the high latitude: A climatological guide
[AD-A135869] 09 p1349 N84-18812
Increase of cold tolerance in cotton plant (Gossypium hirsutum L.) by mepiquat chloride
[E84-10068] 10 p1521 N84-19959
Freezing of Martian streams under climatic conditions 13 p2063 N84-23498
Qualification testing of solar photovoltaic powered refrigerator freezers for medical use in remote geographic locations
[NASA-CR-168181] 15 p2361 N84-25162
Mass transfer and thermodynamic studies of evaporative freezing of water
[PB84-153501] 17 p2620 N84-26769
Shot waves in frozen ground 17 p2703 N84-27218
Liquid and solid phase compositions in a partially frozen JP-5 fuel low in n-alkanes
[AD-A143390] 22 p3561 N84-32553
Resistance of microorganisms from mesosphere to periodic freezing-thawing 22 p3630 N84-33001
Modeling two-dimensional freezing using transfinite mappings and a moving-mesh finite element technique
[AD-A144131] 24 p3900 N84-34698

FREEZING POINTS
U MELTING POINTS

FREIGHT
U CARGO

FREIGHT COSTS
A heuristic method for the problem of the distribution of perishable cargos
[INPE-3133-PRE/524] 23 p3832 N84-34309

FRENCH SPACE PROGRAMS
Thermal control of Telecom 1 10 p1441 N84-19413
Ariane V8 - Intelsat V F8 16 p2456 N84-25746

FREON
A proposed method for model temperature conditioning in cryogenic wind tunnels
[OUEL-1480/83] 07 p0960 N84-16224
Interaction of weak shock waves and discrete gas inhomogeneities 08 p1155 N84-17517
Hydrogen fluoride formation and metal corrosion in freon-contaminated propellants 20 p3137 N84-29921
Stress-corrosion crack-growth study of titanium alloy Ti-6Al-4V exposed to Freon PCA and nitrogen tetroxide MON-1 20 p3138 N84-29923
High temperature adhesive silicone foam composition, foam generating system and method of generating foam
[DE84-014315] 23 p3725 N84-33605

FREQUENCIES
NT AUDIO FREQUENCIES
NT BROADBAND
NT C BAND
NT CARRIER FREQUENCIES
NT CRITICAL FREQUENCIES
NT CYCLOTRON FREQUENCY
NT EXTREMELY HIGH FREQUENCIES
NT EXTREMELY LOW FREQUENCIES
NT EXTREMELY LOW RADIO FREQUENCIES
NT HIGH FREQUENCIES
NT INFRASONIC FREQUENCIES
NT INTERMEDIATE FREQUENCIES
NT LOW FREQUENCIES
NT MAXIMUM USABLE FREQUENCY
NT MICROWAVE FREQUENCIES
NT NYQUIST FREQUENCIES
NT RADIO FREQUENCIES
NT RESONANT FREQUENCIES
NT SUPERHIGH FREQUENCIES
NT SWEEP FREQUENCY
NT ULTRAHIGH FREQUENCIES
NT VERY HIGH FREQUENCIES
NT VERY LOW FREQUENCIES
Modeling of parasitic effects in discrete passive components
[AD-A130458] 01 p0070 N84-10460
Initial estimates of damping rates and frequencies
[ARL-STRUC-NOTE-485] 04 p0587 N84-13879
Excitation frequency dependence of conductivity of electrolytic solutions
[AD-A132782] 05 p0650 N84-14272
Frequency of fast, narrow gamma-ray bursts and burst classification 09 p1407 N84-19190
Measurements on and with non-linear systems: Problems and approaches
[AD-P002673] 11 p1657 N84-20810
Word frequency and automatic indexing 11 p1747 N84-21401
Engineering calculations for communications satellite systems planning
[NASA-CR-173532] 14 p2113 N84-23662
Vibration and flutter of mistuned bladed-disk assemblies
[NASA-TM-83634] 14 p2157 N84-23923
Error margins by segmentation of speech signals with autocorrelation procedures for linear prediction coding systems
[FI-13-TBR-17] 16 p2481 N84-25911
Spatial image processing masks from frequency domain specifications
[AD-P003126] 16 p2534 N84-26267
Role of excitation frequency in discharges created by surface waves
[LP-205] 16 p2558 N84-26411
2.0 GHz to 4.0 GHz automated radiometer operation and service manual
[PB84-165158] 17 p2672 N84-27031

Test results for 27.5- to 30-GHz communications satellite receivers
[NASA-TM-83662] 18 p2828 N84-27954
Summary of work on cooled ion frequency standard, fiscal year 1984
[AD-A142189] 19 p3007 N84-29061
Electrochemical activation parameters for surface-attached reactants evaluation of unimolecular frequency factors for representative ligand-bridged reactions
[AD-A142483] 20 p3148 N84-29990
A procedure for designing exact reconstruction filter banks for tree-structured subband coders
[AD-A142345] 20 p3173 N84-30150
Static frequency-temperature characteristics of doubly rotated quartz
[AD-A142456] 20 p3309 N84-31013
Fundamental and harmonic emission in interplanetary type 2 radio bursts
[NASA-TM-86099] 20 p3320 N84-31079
Period-doubling 2-torus state in a convecting He-3-superfluid He-4 solution
[DE84-009985] 22 p3666 N84-33243
Dynamic characteristics of heat exchanger tubes vibrating in a tube support plate inactive mode
[DE84-014844] 23 p3761 N84-33840
Broadband guided-wave optical frequency translator using an electro-optical Bragg array
[AD-D011164] 23 p3825 N84-34260
The calculation of molecular Eigen-frequencies
[NASA-TM-77759] 24 p3961 N84-35086

FREQUENCY ANALYZERS
A timing and memory sizing study for wavenumber analyzer
[AD-A135581] 09 p1318 N84-18611

FREQUENCY ASSIGNMENT
The subjective effect of multiple co-channel frequency modulated television interference
[NASA-TM-83415] 02 p0208 N84-11360
Intercontinental time and frequency transfer using a global positioning system timing receiver
04 p0519 N84-13411
Spectrum resource assessment in the 5650-5925 MHz
[PB84-127430] 09 p1305 N84-18530
Frequency management in the United Kingdom for private mobile radio systems 10 p1476 N84-19645
Improving frequency utilization efficiency in time and space with isofrequency multiple access networks in private systems of cellular type — mobile radio systems
10 p1477 N84-19648
Development prospects for land mobile radio systems in Italy 10 p1477 N84-19650
H. F. Frequency management by frequency sharing as assisted by models updated in real-time
[AD-A139896] 15 p2321 N84-24936
Techniques for the analysis of spectral and orbital congestion in space systems
[AD-A140841] 17 p2614 N84-26734
Effect of bandwidth and interference rejection on the spectrum efficiency of land mobile radio systems
[PB84-158369] 17 p2654 N84-26978
Test results for 27.5- to 30-GHz communications satellite receivers
[NASA-TM-83662] 18 p2828 N84-27954
Spectrum resource assessment in the 162-174 MHz frequency band — land mobile communications
[PB84-210244] 22 p3578 N84-32667

FREQUENCY BANDS
U FREQUENCIES

FREQUENCY CONTROL
NT AUTOMATIC FREQUENCY CONTROL
A frequency stabilization and trigger control unit for hybrid TEA-CO2 lasers
[AD-A132247] 04 p0540 N84-13552
High stability buffered phase comparator
[NASA-CASE-GSC-12645-1] 07 p0996 N84-16454
Spectrophone stabilized laser with line center offset frequency control
[NASA-CASE-NPO-15516-1] 13 p1994 N84-22943
Method of flicker suppression in television image
17 p2632 N84-26838
Analysis of operation of frequency synthesizer of television receiver with micro-electronic computer in a control circuit 17 p2632 N84-26840
Method of analysis of combination oscillations of arbitrary nonlinear system for spectrum conversion
17 p2634 N84-26849
Use of microprocessor techniques in frequency measuring organs 17 p2638 N84-26876
A study on accurate frequency-control of semiconductor lasers 22 p3563 N84-32566

FREQUENCY CONVERSION
U FREQUENCY CONVERTERS

FREQUENCY CONVERTERS
NT FREQUENCY DIVIDERS
NT FREQUENCY MULTIPLIERS
NT FREQUENCY SYNTHESIZERS
NT UP-CONVERTERS
Scaling studies of efficient Raman converters
[AD-A130382] 01 p0066 N84-10560
Low noise amplifier at L band
[INPE-3128-PRE/519] 16 p2483 N84-25925
Method of analysis of combination oscillations of arbitrary nonlinear system for spectrum conversion
17 p2634 N84-26849
A method of measuring distortion noise in digital audio equipment
[NHK-LABS-NOTE-299] 20 p3177 N84-30174
Use of Peltier effect for small signal amplification and conversion 20 p3286 N84-30864
Inductive transducer for displacement-to-frequency conversion 22 p3567 N84-32594
Frequency conversion in photomultiplier during interaction of photoelectron beam and electric field in heterodyne 22 p3568 N84-32599
Millimetric wave frequency converter using Gunn-effect diode 22 p3570 N84-32607
Broadband guided-wave optical frequency translator using an electro-optical Bragg array
[AD-D011164] 23 p3825 N84-34260

FREQUENCY DISTRIBUTION
NT KURTOSIS
Wind speed, stability category, and atmospheric turbulence at selected locations
[AD-A132947] 05 p0709 N84-14645
Multifrequency scattering for target characterization and identification: A summary of recent results
06 p0870 N84-15863
Tracking and data acquisition system for the 1990's. Volume 8: TDAS frequency planning
[NASA-CR-175200] 10 p1434 N84-19376
Development and evaluation of a fault-tolerant multiprocessor (FTMP) computer. Volume 4: FTMP executive summary
[NASA-CR-172286] 15 p2395 N84-25366
Synthesis of frequency spectra based on use of multilevel pulse sequences 17 p2634 N84-26848
Radio frequency distribution assembly
[AD-A143575] 22 p3577 N84-32658
Wind shear for large wind turbine generators at selected tail tower sites
[DE84-011790] 22 p3626 N84-32974
Radio frequency distribution assembly, operations and maintenance manual
[AD-A143864] 23 p3731 N84-33649
Meteorological and climatological conditions affecting the vertical structure of visibility in northern Germany
[AD-A144352] 24 p3934 N84-34902

FREQUENCY DIVIDERS
Microwave frequency divider
[AD-D011065] 19 p3017 N84-29124

FREQUENCY DIVISION MULTIPLE ACCESS
Multiple access mobile radio systems for private networks 10 p1477 N84-19654
Design of receiver transmitters for use in multiple access networks 10 p1478 N84-19656
Satellite communication, part 2
[INPE-3107-PRE/506] 16 p2481 N84-25906

FREQUENCY DIVISION MULTIPLEXING
FM spectral modeling and FDM/FM simulation programs
[PB84-118934] 08 p1147 N84-17469
The frequency characteristics of optical components used for communication systems based on optical frequency-division multiplex
[FI-451-TBR-9] 15 p2407 N84-25451

FREQUENCY HOPPING
Spread spectrum transmission. Part 1: General characteristics
[FUB-49-1982-PT-1] 06 p0826 N84-15385
Broadband base isolated asymmetrically fed VHF antenna 06 p0827 N84-15393
The performance of an LMS (Least Mean Square) adaptive array with frequency hopped signals
[AD-A136461] 09 p1298 N84-18489
Experimental evaluation of the interference of a frequency hopping signal on a television signal — mobile radio systems 10 p1478 N84-19659
A controller for frequency hopping, with a frequency synthesizer
[FOA-C-30350-E4] 10 p1489 N84-19739
Investigation into a digital modulation method for a frequency hopping system, using a low bit rate
[PHL-1983-44] 12 p1808 N84-21790
Target super-resolution compensation for coherent airborne radar utilizing spread spectrum waveforms
[AD-A138545] 13 p1982 N84-22866
Performance of telecommunications systems in a random probabilistic environment. Task 2: Single source interference with random parameters
[PB84-158534] 17 p2655 N84-26981
List metric detection of coded FH/MFSK (Frequency-Hopped Multiple Frequency Shift Keying) in a tone jamming environment
[AD-A142356] 20 p3174 N84-30153
Spread spectrum, acquisition and tracking
[AD-A144533] 24 p3895 N84-34668

FREQUENCY MEASUREMENT
Atlas of Northern Hemisphere extratropical cyclone activity, 1958 - 1977
[PB83-225722] 01 p0110 N84-10712
Nevada test site seismic-telemetry measurements
[DE84-000447] 04 p0564 N84-13719
Measurements on and with non-linear systems: Problems and approaches
[AD-P002673] 11 p1657 N84-20810
The frequency characteristics of optical components used for communication systems based on optical frequency-division multiplex
[FI-451-TBR-9] 15 p2407 N84-25451
Use of microprocessor techniques in frequency measuring organs 17 p2638 N84-26875
An improved MSK generator diagnostic unit
[AD-A140568] 17 p2672 N84-27028
Distortions in frequency spectra of signals associated with sampling-pulse shapes
[DE84-701747] 24 p3896 N84-34672

FREQUENCY MODULATION
NT FEEDBACK FREQUENCY MODULATION
NT FREQUENCY SHIFT KEYING
The simulation of a Frequency Shift Keying (FSK) diversity system
[DFVLR-FB-83-22] 03 p0363 N84-12363
Intercontinental time and frequency transfer using a global positioning system timing receiver
04 p0519 N84-13411
Stress assessment through voice analysis
[AD-A132577] 04 p0573 N84-13773
A FMCW radar ranging device for the teleoperator maneuvering system 06 p0930 N84-16045
A catalogue of spreading modulation spectra
[AD-A134850] 08 p1145 N84-17454
FM spectral modeling and FDM/FM simulation programs
[PB84-118934] 08 p1147 N84-17469
Amplitude Compandored Sideband compared to conventional frequency modulation for VHF mobile radio: Laboratory and field testing results
[PB84-116383] 08 p1148 N84-17474
Data transmission at 1200 Baud in mobile or fixed radio links with interchannel interferences
10 p1478 N84-19655
Intermodulation between v.h.f./t.m. broadcast transmitters and the protection of adjacent-band aeronautical services
[BBC-RD-1984/2] 13 p1975 N84-22819
An experimental system of FM data-broadcasting
[NHK-SERIAL-293] 15 p2319 N84-24919
Time interval errors of a Flicker-noise generator
16 p2480 N84-25902
Coupling of current and frequency-modulated noise in Gunn oscillators 17 p2636 N84-26865
System requirements for a SCPC FM low capacity Earth station — Brazil
[INPE-2943-NTE/207] 17 p2652 N84-26858
Specifications for a low capacity SCPC FM Earth station
[INPE-2944-NTE/208] 17 p2652 N84-26859
Performance of telecommunications systems in a random probabilistic environment. Task 2: Single source interference with random parameters
[PB84-158534] 17 p2655 N84-26981
Description of a microwave system for the measurement of close to carrier AM and FM noise spectra
[LEOK-TR-1984-04] 20 p3175 N84-30168
Spectrum resource assessment in the 162-174 MHz frequency band — land mobile communications
[PB84-210244] 22 p3578 N84-32667

FREQUENCY MULTIPLIERS
Phase locked loop theory and application: A precise paper
[CSIR-NIAST-82/57] 04 p0524 N84-13444

FREQUENCY RANGES
Acoustic radiation from submerged structures at characteristic frequencies 05 p0742 N84-14872
The prediction of field strength in the frequency range 30 - 1000 MHz 15 p2326 N84-24968
Phase inverter based on dielectric stripline waveguide with mobile metal plate 17 p2638 N84-26879
Effect of bandwidth and interference rejection on the spectrum efficiency of land mobile radio systems
[PB84-158369] 17 p2654 N84-26978

Development of a 30 GHz/10 W traveling wave tube
[BMFT-FB-W-84-004] 19 p3019 N84-29142

FREQUENCY REGULATION
U FREQUENCY CONTROL

FREQUENCY RESPONSE
Optimal approximation algorithms for digital filter design 05 p0673 N84-14420
Systems approach to measuring short-duration acceleration transients
[AD-P002690] 11 p1659 N84-20825
VIBRA: An interactive computer program for steady-state vibration response analysis of linear damped structures
[NASA-TM-85789] 18 p2852 N84-28112
Research pressure instrumentation for NASA Space Shuttle main engine, modification no. 5
[NASA-CR-171122] 21 p3404 N84-31594
Research pressure instrumentation for NASA Space Shuttle main engine, modification no. 5
[NASA-CR-173860] 21 p3405 N84-31596
Research pressure instrumentation for NASA Space Shuttle main engine, modification no. 6
[NASA-CR-171126] 22 p3597 N84-32780
Frequency response design methods for large scale systems
[DE84-013111] 22 p3644 N84-33103

FREQUENCY REUSE
Phased-array-fed antenna configuration study, volume 2
[NASA-CR-168232] 07 p0991 N84-16424

FREQUENCY SCANNING
Time characteristics of search for compound signals with respect to delay 17 p2634 N84-26851
The dual-frequency scatterometer reexamined 17 p2714 N84-27280
Studies of midaltitude cyclone structure with SEASAT scanning multichannel microwave radiometer 24 p3930 N84-34877

FREQUENCY SHIFT
Control unit for frequency shift for short wave radio transmission
[FOA-C-30269-E2] 07 p0994 N84-16447
Effect of leap length on the quality of large capacity numerical linkages 15 p2324 N84-24954
Techniques for measurement of vertical and horizontal velocities: Monostatic versus bistatic measurements 17 p2686 N84-27105
Microwave phase modulators using semiconductor diodes (survey) 21 p3360 N84-31448

FREQUENCY SHIFT KEYING
The simulation of a Frequency Shift Keying (FSK) diversity system
[DFVLR-FB-83-22] 03 p0363 N84-12363
Digital sound transmission methods for TV sound tracks
[BMFT-FB-W-84-007] 19 p3009 N84-29075
List metric detection of coded FH/MFSK (Frequency-Hopped Multiple Frequency Shift Keying) in a tone jamming environment
[AD-A142358] 20 p3174 N84-30153
Performance of digital communications over selective fading channels 21 p3381 N84-31456

FREQUENCY STABILITY
Frequency stabilization of carbon dioxide lasers
[FOA-C-30328-E1] 02 p0228 N84-11496
Frequency stability analysis of GPS (Global Positioning System) NAVSTARs 3 and 4 rubidium clocks and the NAVSTARs 5 and 6 cesium clocks
[AD-A137376] 10 p1425 N84-19318
X-band uplink ground systems development 10 p1474 N84-19626
Low temperature quartz crystal oscillator fast warm-up SAW oscillator
[AD-A138024] 12 p1811 N84-21806
Stable heterodyning system in RT-22 radio telescope for millimetric-wave spectroscopy 17 p2630 N84-26827
Narrow deviation voltage controlled crystal oscillator
[AD-D011033] 19 p3016 N84-29133
The temperature sensitivity of doubly rotated quartz resonators
[AD-A142537] 20 p3178 N84-30186
Stable asynchronous two-frequency oscillations in Gunn-effect diode with open resonator structure 22 p3570 N84-32611
A compact frequency-stable pulsed CO-2 laser
[AD-A143216] 22 p3600 N84-32806

FREQUENCY STANDARDS
Journal of Research of the National Bureau of Standards. Volume 88, Number 5, September-October 1983
[PB84-125293] 08 p1139 N84-17406
Rubidium frequency standard study
[AD-A134713] 06 p1151 N84-17492
X-band uplink ground systems development 10 p1474 N84-19626
High-resistance measuring standards of electrical resistance 18 p2826 N84-27939
Summary of work on cooled ion frequency standard, fiscal year 1984
[AD-A142189] 19 p3007 N84-29061

FREQUENCY SYNTHESIZERS
Control of the HP3325 frequency synthesizer by a PDP 11 computer for gravitational experiments — gravitational antennas, geophysical studies
[IFSI-83-9] 05 p0683 N84-14492
Design of receiver transmitters for use in multiple access networks 10 p1478 N84-19656
A controller for frequency hopping, with a frequency synthesizer
[FOA-C-30350-E4] 10 p1489 N84-19739
Low noise microwave frequency synthesizers
[INPE-2796-PRE/358] 11 p1642 N84-20733
Analysis of operation of frequency synthesizer of television receiver with micro-electronic computer in a control circuit 17 p2632 N84-26840
FM synthesizer-modulator with 1200 channels for SCPC transmission of voice signals by satellite — single channel per carrier transmission
[INPE-2815-PRE/371] 23 p3730 N84-33638
Stepped frequency radar target imaging
[AD-D011187] 24 p3893 N84-34652
Frequency synthesizer
[AD-D011203] 24 p3903 N84-34714

FREQUENCY TRANSLATION
U FREQUENCY CONVERTERS

FRESH WATER
Stream-water storage in the ocean using an impermeable membrane
[PB83-248369] 04 p0517 N84-13394
Survey of water quality and flow in Maryland coastal zone streams: A data report
[PB83-249375] 04 p0556 N84-13660
Evaluation of a ground transient electromagnetic remote sensing method for the deep detection and monitoring of salt water interfaces
[PB83-253351] 05 p0698 N84-14580
Mitigation of biofouling using coatings
[DE84-006112] 11 p1693 N84-21041

FRESNEL DIFFRACTION
Parametrization of Fresnel returns in middle-atmosphere radar experiments 17 p2689 N84-27123
Parametrization of Fresnel returns 17 p2689 N84-27124

FRESNEL INTEGRALS
Transverse mode formation in positive branch unstable resonators
[AD-A136515] 09 p1322 N84-18635
Transverse and quantum effects in light control by light; (A) parallel beams: Pump dynamics for three level superfluorescence; and (B) counterflow beams: An algorithm for transverse, full transient effects in optical bi-stability in a Fabryperot cavity
[AD-A136906] 10 p1578 N84-20342

FRESNEL LENSES
Design and development of a high-concentration and high-effiecency photovoltaic concentrator using a curved Fresnel lens
[DE84-000967] 04 p0558 N84-13679
Design and development of low cost photovoltaic concentrator modules
[DE84-003150] 07 p1026 N84-16649
Linear Fresnel lens photovoltaic concentrator program
[DE84-002971] 08 p1180 N84-17689
JPL tests of a LaJet concentrator facet
[NASA-CR-173470] 12 p1841 N84-22004
Development of high-efficiency concentrator cell configuration
[DE84-008356] 14 p2173 N84-24012
A transmittance-optimized, point-focus Fresnel lens solar concentrator 18 p2871 N84-28226
Polymeric web lens evaluation
[DE84-010108] 19 p3000 N84-29013
Photovoltaic concentrators: Present status and future role
[DE84-005520] 20 p3235 N84-30532
Concentrating photovoltaic technology
[DE84-012275] 22 p3619 N84-32931

FRESNEL REGION
Fresnel zone considerations for reflection and scatter from refractive index irregularities 17 p2684 N84-27091
School of Electrical Engineering. 17 p2694 N84-27156

FRESNEL-KIRCHHOFF INTEGRALS
U FRESNEL INTEGRALS

FRETTING
Multitechnique studies on fretting fatigue: Influence of surface treatment
[AD-A140812] 17 p2624 N84-26796

FRETTING CORROSION
Lubrication of mountings subject to contact corrosion — spacecraft components 09 p1296 N84-18469

FRICTION
NT AERODYNAMIC DRAG
NT DRY FRICTION
NT FLOW RESISTANCE
NT INTERNAL FRICTION
NT KINETIC FRICTION
NT SKIN FRICTION
NT SLIDING FRICTION
NT STATIC FRICTION
NT SUPERSONIC DRAG
NT VISCOUS DRAG
Heat checking in the contact zone of a face seal: A three-dimensional model of a single moving asperity
[AD-A130756] 01 p0079 N84-10513
Effect of environment and materials properties on the friction and wear behavior of precious metal electrical contact alloy couples
[DE83-010403] 02 p0215 N84-11409
Piston-displacement equations of state for sodium, potassium, and rubidium metals to 20 kbar from 300 K to 4 K
[DE83-016079] 03 p0347 N84-12252
Use of superposition in calculating cooling requirements for circuit cards containing arrays of electronic components
[DE83-016091] 03 p0373 N84-12428
A numerical study on the evolution of tornadoes 03 p0409 N84-12679
Slippery versus slip resistant work surfaces: The background for a regulatory definition
[PB83-243634] 04 p0516 N84-13392
The influence of convective activity on the vorticity budget
[NASA-CR-3752] 04 p0567 N84-13736
Introduction to the FORTRAN 14 programs Duvorol and Contact for the solution of 3 D elastostatic half-space contact problems with and without friction
[PB83-147421] 06 p0898 N84-15833
Missile rolling tail brake torque system — simulating bearing friction on canard controlled missiles
[NASA-CASE-LAR-12751-1] 07 p0961 N84-16231
Friction and wear behavior of aluminum and composite airplane skins
[NASA-TP-2262] 08 p1103 N84-17175
Tribological characteristics of gold films deposited on metals by ion plating and vapor deposition
[NASA-TM-83572] 08 p1130 N84-17352
Friction and wear reduction of 440C stainless steel by ion implantation
[DE84-003255] 08 p1133 N84-17371
Water-vapor effects on friction of magnetic tape in contact with nickel-zinc ferrite
[NASA-TP-2279] 09 p1286 N84-18399
Lubrication and support of a single piston ring
[DE84-004368] 10 p1502 N84-19818
Frictional and morphological properties of Au-MoS2 films sputtered from a compact target
[NASA-TM-83604] 11 p1664 N84-20858
Environmental reactions and their effects on mechanical behavior of metallic materials
[DE84-005768] 12 p1799 N84-21734
Characterization and measurement of polymer wear
[NASA-TM-83628] 12 p1800 N84-21739
Contact-stress analysis of elastic-viscoelastic interface conditions
[AD-A136834] 13 p1964 N84-22759
Factors influencing thermomechanical failure of face seals, 3
[AD-A138546] 13 p1997 N84-22961
Criteria for use of asphalt friction surfaces
[PB84-155613] 14 p2135 N84-23798
Tribology in the 80's. Volume 1: Sessions 1 to 4
[NASA-CP-2300-VOL-1] 14 p2152 N84-23891
Status and direction of tribology as a science in the 80's. Understanding and prediction 14 p2152 N84-23892
Nature of the surface and its effect on solid-state interactions 14 p2152 N84-23894
Importance of properties of solids to friction and wear behaviour 14 p2153 N84-23895
Future directions of research in adhesion and friction. Status of understanding 14 p2153 N84-23896
Metallic adhesion and bonding 14 p2153 N84-23897
The strength of the metal. Aluminum oxide interface 14 p2153 N84-23898
The influence of surface topography on polymer friction 14 p2153 N84-23899
Structures and properties of polymers important to their wear behavior 14 p2154 N84-23902
Considerations in friction and wear 14 p2154 N84-23903

Composites for increased wear resistance: Current achievements and future prospects
14 p2154 N84-23904
Behaviors of polymer additives under EHL and influences of interactions between additives on friction modification
14 p2154 N84-23908
Journal of Research of the National Bureau of Standards. Volume 88, Number 6, November-December 1983
[PB84-160605] 14 p2220 N84-24322
Friction in elastohydrodynamic contacts
15 p2316 N84-24897
Tribology in the 80's. Volume 2: Sessions 5 - 8
[NASA-CP-2300-VOL-2] 15 p2340 N84-25047
Frictional hold of various sheave configurations on synthetic ropes
[AD-A139808] 15 p2343 N84-25067
Tribological applications of surface analysis
[NASA-TM-83707] 16 p2460 N84-25766
Effect of substrate chemical pretreatment on the tribological properties of graphite films
[NASA-TM-83574] 16 p2470 N84-25831
Dependence of realizability of selective mass transfer during friction of aluminum bronzes against steel on composition of lubricating fluid 17 p2641 N84-26901
Dependence of realizability of selective mass transfer during friction of tin bronzes against steel in hydraulic system mechanisms on concentration of alloying elements
17 p2642 N84-26902
A comparison of the tube-side performance of enhanced heat transfer tubing for Naval condensers
[AD-A126938] 17 p2667 N84-27006
Evaluation of two polyimides and of an improved liner retention design for self-lubricating bushings
[NASA-TM-83719] 18 p2817 N84-27887
Friction and wear characteristics of molecular compound classes from lubricating base oils. Part 1: Separation and chemical characterization
[PB84-167741] 18 p2820 N84-27904
Erosion of iron-chromium alloys by glass particles
[NASA-TP-2354] 19 p2993 N84-28985
Properties of ferrites important to their friction and wear behavior
[NASA-TM-83718] 19 p2997 N84-28994
Variation in coefficient accounting for influence of external zones with variation in contact friction conditions --- metal working
[BLL-M-35596-(5828.4)] 19 p3031 N84-29222
Transfer during sliding wear of selected metal systems
21 p3364 N84-31341
Hard Coatings for Tribological Systems Operating under Extreme Conditions
[DE84-009660] 21 p3368 N84-31369
Radial SI latches vibration test data review
[NASA-TM-86454] 21 p3412 N84-31638
Automotive Stirling engine development program
[NASA-CR-174622] 21 p3521 N84-32305
Microstructure and surface chemistry of amorphous alloys important to their friction and wear behavior
[NASA-TM-83762] 22 p3555 N84-32508
The friction behavior of semiconductors Si and GaAs in contact with pure metals
[NASA-TM-83779] 22 p3558 N84-32531
Friction and wear studies of liquid metal wetted, metallic fiber brushes
[AD-A143473] 22 p3604 N84-32831
Seizing in friction of composite materials with differing phase compositions 24 p3868 N84-34517
Optical and other property changes of M-50 bearing steel surfaces for different lubricants and additive prior to scuffing
[NASA-TM-83746] 24 p3888 N84-34620
Navy mobility fuels evaluation
[AD-A144171] 24 p3890 N84-34630
The effects of latent heat release on the waves with Ekman pumping
24 p3926 N84-34847

FRICTION COEFFICIENT
U COEFFICIENT OF FRICTION

FRICTION DRAG
NT AERODYNAMIC DRAG
NT SUPERSONIC DRAG
NT VISCOUS DRAG

FRICTION FACTOR
Analysis of nonclassical friction laws for contact problems in elastostatics
02 p0230 N84-11511
Unidirectional flexural pivot
[NASA-CASE-GSC-12622-1] 03 p0383 N84-12492
Uniaxial model for gas-loaded variable conductance heat pipe performance: The effects of vapor flow, friction, and inertia
10 p1443 N84-19424

FRICTION LOSS COEFFICIENT
U FRICTION FACTOR

FRICTION MEASUREMENT
Measurement of rolling friction by a damped oscillator
[NASA-TP-2257] 04 p0543 N84-13577
Plane motion of solid body on rough surface of annular bearing rotating about its axis perpendicular to plane of motion
13 p1973 N84-22801
Friction in low speed lubricated rolling and sliding contacts
[VTT-16] 20 p3199 N84-30318
Coefficient of surface friction with turbulent flow in boundary layer
21 p3481 N84-32064
Friction behavior of silicon in contact with titanium, nickel, silver and copper
[NASA-TP-2362] 23 p3723 N84-33590

FRICTION PRESSURE DROP
U SKIN FRICTION

FRICTION REDUCTION
Rubber removal from porous friction course
[FAA-PM-83-31] 02 p0182 N84-11184
Special cases of friction and applications
[NASA-TM-83523] 02 p0229 N84-11500
Microstructures of stainless steels exhibiting reduced friction and wear after implantation with Ti and C
[DE84-002252] 07 p0975 N84-16318
Constant force friction damper
[NASA-CASE-MSC-20505-1] 13 p1939 N84-22611
Plane motion of solid body on rough surface of annular bearing rotating about its axis perpendicular to plane of motion
13 p1973 N84-22801
Behaviors of polymer additives under EHL and influences of interactions between additives on friction modification
14 p2154 N84-23908
Selection of a mineral-base lubricant for the cold rolling of aluminum strip
15 p2401 N84-25412
Lubrication of machine elements
[NASA-RP-1126] 21 p3413 N84-31640
The effects of porous material on microbubble skin friction reduction
[AD-A143401] 22 p3593 N84-32756
Friction behavior of silicon in contact with titanium, nickel, silver and copper
[NASA-TP-2362] 23 p3723 N84-33590

FRICTION WELDING
Friction welding
09 p1292 N84-18436
Welding of thermoplastics
09 p1292 N84-18437

FRINGE PATTERNS
U DIFFRACTION PATTERNS

FRIT
Ceramic glazes: Basic information
[PB84-150663] 14 p2130 N84-23772
Ultra lightweight mirror fabrication technology
[AD-A140019] 15 p2408 N84-25454
Development of metallization process
[NASA-CR-173956] 23 p3786 N84-34014

FROGS
Effect of centrifuging on survival of early larvae of common frogs
15 p2377 N84-25266

FRONTAL AREAS (METEOROLOGY)
U FRONTS (METEOROLOGY)

FRONTS
On the unsteady response of an oceanic front to local atmospheric forcing
[AD-A132215] 05 p0708 N84-14637

FRONTS (METEOROLOGY)
NT COLD FRONTS
Investigation of the arc cloud complex
06 p0928 N84-16029
Synoptic meteorology during the SNOW-ONE-A field experiment
[AD-A134888] 08 p1191 N84-17762
Frontogenesis in a moist atmosphere
[PB84-104066] 08 p1193 N84-17779
The Grand Banks experiment: A satellite/aircraft/ship experiment to explore the ability of specialized radars to define ocean fronts
[AD-A136181] 09 p1304 N84-18522
Study of the seasonal variation of the tropical ocean front between the Brazil Current and the Malvinas Current, using oceanographic and SMS-2 satellite data
[INPE-2780-TDL/137] 10 p1539 N84-20062
The relation between the gravity current in the atmospheric boundary layer and local heavy rainfall
[AD-A137193] 10 p1539 N84-20066
Frontogenesis in a moist atmosphere
10 p1542 N84-20106
Statistics of vertical shear from a hemispheric model
[AD-A136179] 10 p1543 N84-20111
Satellite observations of fronts and frontal meanders in the Central North Pacific Ocean
11 p1671 N84-20903
Numerical simulation of thunderstorm gust fronts
[AD-A141214] 18 p2889 N84-28339
Investigation of the detectability and lifetime of gust fronts and other weather hazards to aircraft
[AD-A141552] 19 p3058 N84-29404
Analysis of some cloud and frontal events recorded during the Boulder Upslope Cloud Observation Experiment (BUCOE) of 1982
[PB84-179662] 20 p3249 N84-30622
Model study of the atmospheric frontogenesis. 2: Theoretical model
24 p3956 N84-35047

FROST
Revised procedure for pavement design under seasonal frost conditions
[AD-A134480] 07 p0986 N84-16384
Diurnal freeze-thaw frequencies in the high latitude: A climatological guide
[AD-A135869] 09 p1349 N84-18612
Device for determining frost depth and density
[NASA-CASE-NFS-25754-1] 18 p2839 N84-28018
Comparative study of heat pump regulation systems. The problem of defrosting evaporators
[CETIM-100250] 21 p3403 N84-31589
The severity of the Brazilian freeze of 1981 as monitored in real time by satellite
[INPE-2586-PRE/234] 22 p3625 N84-32967
Use of satellites in frost forecasting: SIPHES
23 p3775 N84-33931

FROSTBITE
Recommendations for the conduct of physical training in cold weather
[AD-A142137] 19 p3066 N84-29440

FROUDE NUMBER
The Froude number for solitary waves
[AD-A134548] 07 p1002 N84-16496
On Froude's number and the thickness of bones during growth
23 p3807 N84-34139

FROZEN SOILS
U PERMAFROST

FRUITS
Improved air shipment of fruit reported this year
01 p0001 N84-10005
Participation of ethylene in gravitropism
09 p1359 N84-18678

FUEL CELL CATALYSTS
U ELECTROCATALYSTS

FUEL CELL POWER PLANTS
Solid-oxide fuel-cell performance
[DE83-017926] 03 p0368 N84-12396
On-site fuel cell power plant technology development program
[PB84-125095] 10 p1538 N84-20076

FUEL CELLS
NT HYDROGEN OXYGEN FUEL CELLS
NT PHOSPHORIC ACID FUEL CELLS
NT REGENERATIVE FUEL CELLS
Electrochemical-Storage-Systems Program summary
[DE83-011254] 01 p0075 N84-10493
Economic competitiveness of fuel cell onsite integrated energy systems
[NASA-TM-83403] 01 p0102 N84-10665
Solid-oxide fuel-cell performance
[DE83-017926] 03 p0368 N84-12396
Solid-oxide fuel cells
[DE83-017925] 04 p0527 N84-13469
Moltencarbonate fuel cells, development status
[DE84-000612] 04 p0529 N84-13480
Solubility of the NiO fuel-cell cathode in Li2CO3 melts as determined by cyclic voltammetry
[DE83-014311] 04 p0530 N84-13485
Develop and test fuel cell powered on-site integrated total energy systems. Phase 3: Full-scale power plant development
[NASA-CR-168294] 04 p0557 N84-13672
Advanced fuel-cell development
[DE84-002685] 05 p0676 N84-14445
Systems analysis of electricity production from coal using fuel cells
[NASA-CR-173157] 07 p1026 N84-16645
Development of a solar energy system
[DE83-014236] 08 p1180 N84-17690
Development of a solar energy system: Executive summary
[DE83-014392] 08 p1181 N84-17693
Fuel cells for transportation applications
[DE84-003969] 09 p1310 N84-18564
Development of molten carbonate fuel cell power plant technology
[DE84-002367] 10 p1487 N84-19720
Electrocatalysis of fuel cell reactions: Investigation of alternate electrolytes
[NASA-CR-173261] 10 p1529 N84-20013
Heat recovery subsystem and overall system integration of fuel cell on-site integrated energy systems
[NASA-CR-168309] 11 p1673 N84-20915
Proceedings of the Conference on High Temperature Solid Oxide electrolytes. Volume 1: Anion conductors
[BNL-51728-VOL-1] 11 p1738 N84-21342
Cell performance and life characteristics of solid oxide electrolyte fuel cells
11 p1739 N84-21343
Critical issues in solid oxide fuel cell development
11 p1739 N84-21344
Proton transport in beta alumina
11 p1739 N84-21345

Vapor deposition of stabilized zirconium oxide electrolyte and lanthanum chromite interconnection for multiple cell fabrication 11 p1739 N84-21346
Microstructure-property relationship for porous CaO stabilized ZrO2 support tubes 11 p1739 N84-21347
Research and development on high temperature water vapor electrolysis 11 p1739 N84-21348
High temperature electrolysis of water vapor. Status and perspectives of the German research and development activities 11 p1739 N84-21349
Redox behavior of high temperature electrodes 11 p1741 N84-21359
AC measurements on fuel cells and fuel cell components 11 p1741 N84-21362
Defect electrochemistry of oxide electrodes 11 p1742 N84-21364
Use of single point contact electrodes to understand porous electrode behavior on solid electrolytes 11 p1742 N84-21365
Mechanisms of catalytic oxidation of hydrocarbons in a solid-electrolyte fuel cell 11 p1742 N84-21366
Method of making a light weight battery plaque [NASA-CASE-LEW-13349-1] 13 p1960 N84-22734
Cathode materials development for carbonate fuel cells [DE84-010033] 15 p2363 N84-25179
Development of molten carbonate fuel cell technology [DE84-004856] 15 p2364 N84-25183
Assessment of fuel cell propulsion systems [DE84-006323] 15 p2420 N84-25536
Improved acid electrolytes for fuel cells [PB84-179779] 16 p2519 N84-26173
Develop and test fuel cell powered on-site integrated total energy systems [NASA-CR-174714] 17 p2723 N84-27329
Advanced fuel cell development [DE84-006964] 18 p2834 N84-27994
Electrochemical storage 19 p3048 N84-29342
Electronics Division research and development [DE84-011024] 20 p3180 N84-30200
Steam reforming of fuel to hydrogen in fuel cell [DE84-011115] 20 p3181 N84-30205
Zinc/bromine batteries: A status review [DE84-006973] 20 p3161 N84-30206
Effects of H2S on molten carbonate fuel cells [DE84-010485] 20 p3234 N84-30531
Technology base research project for electrochemical energy storage [DE84-012248] 21 p3393 N84-31535
Molten carbonate fuel cell cathode development [DE84-012101] 21 p3395 N84-31544
Molten carbonate fuel cell performance model update [DE84-012932] 22 p3589 N84-32733
Fuel cell power systems for Navy applications [AD-A143402] 22 p3618 N84-32923
Technology Base Research Project for Electrochemical Energy Storage [DE84-013677] 22 p3619 N84-32930
Research on oxidation by air and tempering of Raney nickel electrocatalysts for the H2 anodes of alkali combustion materials cells [NASA-TM-77414] 23 p3713 N84-33535
Pore-forming fillers for molten carbonate matrices [DE84-014509] 23 p3715 N84-33551
Method of fabricating a monolithic core for a solid oxide fuel cell [DE84-014665] 23 p3743 N84-33727
Solid oxide fuel cell having monolithic core [DE84-014659] 23 p3743 N84-33728
Fuel cell stack with internal manifolds for reactant gases [DE84-014662] 23 p3743 N84-33729
Solid oxide fuel cell having compound cross flow gas patterns [DE84-014666] 23 p3743 N84-33730
Integral manifolding structure for fuel cell core having parallel gas flow [DE84-014664] 23 p3744 N84-33731
Project summaries, supplement [DE84-013678] 23 p3744 N84-33734

FUEL COMBUSTION
Spray combustion of synthetic fuels. Phase 2. Spray-combustion phenomena [DE83-014541] 02 p0191 N84-11242
Combustion of EDS mid-distillate and refined shale-oil residual fuel in a gas turbine with large single-combustion chamber [DE83-017700] 03 p0351 N84-12281
A gas turbine combustor test facility for fuel composition investigations [AD-A132479] 04 p0487 N84-13201
Investigation of sources, properties and preparation of distillate test fuels [NASA-CR-168227] 04 p0508 N84-13332
Atmospheric retention of anthropogenic CO2: Scenario dependence of the airborne fraction [DE83-016854] 04 p0565 N84-13723
Studies of flame spread in an opposed flow over surfaces of solid fuels 05 p0652 N84-14286
Broad specification fuels combustion technology program [NASA-CR-168179] 06 p0812 N84-15283
Advanced Gas Turbine (AGT) technology development [NASA-CR-168235] 06 p0852 N84-15554
Fuel effects on gas turbine combustion [AD-A134503] 07 p0954 N84-16187
Atomization and combustion performance of antimisting kerosene and jet fuel [NASA-CR-174507] 07 p0980 N84-16353
Mechanisms and reaction dynamics related to methane combustion [PB84-100932] 08 p1128 N84-17333
Aviation-fuel property effects on combustion [NASA-CR-168334] 08 p1139 N84-17407
Ionic mechanisms of carbon formation in flames [AD-A137079] 10 p1455 N84-19505
Synfuel modified diesel [DE84-002189] 10 p1502 N84-19819
The role of surface generated radicals in catalytic combustion 11 p1613 N84-20555
Spontaneous ignition characteristics of gaseous hydrocarbon-air mixtures 11 p1613 N84-20557
Transient flow combustion 11 p1613 N84-20560
Properties of 3-dimensional energetic solids and molecular crystals [AD-A137927] 11 p1744 N84-21382
Surface ignition and heterogeneous catalysis of hydrocarbon fuels [AD-A138214] 12 p1792 N84-21686
Three-color pyrometer for burning particle temperature measurement 13 p1943 N84-22835
Mechanism of soot formation in premixed C2H2/O2 flames 13 p1958 N84-22727
Alternate fuels combustion research [AD-A138575] 13 p1965 N84-22769
Heat pipes to reduce engine exhaust emissions [NASA-CASE-LEW-12590-1] 13 p1997 N84-22958
The NASA broad specification fuels combustion technology program at Pratt and Whitney 14 p2108 N84-23640
Methanol viewed as alternative to gasoline 14 p2133 N84-23785
The two-slab burning problem [AD-A139618] 15 p2287 N84-24719
Combustion Problems in Turbine Engines [AGARD-CP-353] 15 p2289 N84-24732
Combustor technology for broadened-properties fuels 15 p2289 N84-24736
Fuel character effects on performance of small gas turbine combustion systems 15 p2290 N84-24738
U.S. Army alternative gas-turbine fuels research: MERADCOM 15 p2290 N84-24739
A droplet evaporation rate controlled combustion model 15 p2293 N84-24761
Predicted TF41 performance with the AGARD research fuel 15 p2293 N84-24763
Electrical spray modification with various fuels in a t56 combustor [AD-A139961] 15 p2304 N84-24824
A review of internal combustion engine combustion chamber process studies at NASA Lewis Research Center [NASA-TM-83666] 15 p2331 N84-24999
Unsteady combustion of composite fuel droplets [ONERA-NT-1983-3] 16 p2462 N84-25781
A critical review of noise production models for turbulent, gas-fueled burners [NASA-CR-3803] 16 p2554 N84-26384
Wall effects on combustion in an engine [AD-A141418] 19 p2966 N84-28796
Investigation of the kinetics of catalyzed combustion of fuel [AD-A142153] 19 p2969 N84-28939
Development of carbon slurry fuels for transportation (hybrid fuels, phase 2) [NASA-CR-174659] 19 p2992 N84-28960
Utilization of SRC-2 fuel in an insulated diesel engine [DE84-004386] 20 p3167 N84-30111
A comprehensive chemical kinetic reaction mechanism for the oxidation of n-butane [DE84-005739] 22 p3549 N84-32467
Engine wear with methanol fuel in a nitrogen-free environment [AD-A143530] 22 p3604 N84-32833
Experimental and modeling study of engine knock [DE84-006134] 22 p3606 N84-32844

FUEL CONSUMPTION
Preliminary operating assessment advanced Heat Recovery Incinerator (HRI). Site One: O'Connor Combustor Corporation [AD-A131254] 01 p0103 N84-10667
Technology assessment of productive conservation in urban transportation [DE83-012179] 01 p0163 N84-11070
EPA evaluation of the Malpassi Filter King device under Section 511 of the Motor Vehicle Information and Cost Savings Act [PB83-214700] 01 p0163 N84-11073
USSR report: Transportation, no. 129 [JPRS-84573] 02 p0167 N84-11094
Poor quality aircraft exterior surfaces cause greater fuel expenditures 02 p0167 N84-11095
Innovations for improving performance, aerodynamic properties of aircraft 02 p0167 N84-11097
Services to conduct seminars on truck fuel economy for fleet owners and owner operators [DE83-013365] 02 p0304 N84-11992
A study of the relationship between exhaust emissions and fuel economy [PB83-235564] 03 p0385 N84-12506
Range and endurance of jet-engined airplanes at constant altitude [REPT-83-A1-SER-A] 04 p0483 N84-13175
A gas turbine combustor test facility for fuel composition investigations [AD-A132479] 04 p0487 N84-13201
Economic benefits of operational environmental satellites [PB83-252932] 04 p0569 N84-13748
Catalog of selected heavy duty transport energy management models [NASA-CR-168299] 05 p0761 N84-14991
Measuring energy use in urban travel using a sketch planning model [DE83-015375] 05 p0761 N84-14992
Fuel economy in aviation [NASA-SP-462] 06 p0786 N84-15144
NAHBE (Naval Academy Heat Balanced Engine) m151 retrofit evaluation [AD-A133475] 06 p0853 N84-15559
High altitude aerodynamic platform concept evaluation and prototype engine testing [NASA-TM-58256] 07 p0953 N84-16182
Vehicular pressure measuring system [DE84-003426] 07 p1008 N84-16536
Prediction of an apparent flame length in a co-axial jet diffusion flame combustor [AD-A135088] 08 p1123 N84-17303
Airframe technology for aircraft energy efficiency --- economic factors [NASA-TM-85749] 09 p1249 N84-18154
Heavy-duty diesel emissions as a function of alternate fuels [PB84-120716] 09 p1291 N84-18426
Relationship between global fossil-fuel consumption and the concentration of carbon dioxide in the atmosphere, part 1 [PB84-123413] 10 p1532 N84-20036
Wingtip vortex propeller [NASA-CASE-LAR-13019-1] 11 p1602 N84-20495
Application of fuel/time minimization techniques to route planning and trajectory optimization 11 p1616 N84-20578
Heavy-duty fuel economy program phase 5: Investigation of a heavy-duty 3-way catalyst system [PB84-135722] 11 p1639 N84-20715
Relationship between global fossil-fuel consumption and the concentration of carbon dioxide in the atmosphere, part 2 [PB84-138841] 11 p1683 N84-20985
Report to Congress on federal energy conservation programs, fiscal year 1981 [DOE/CE-0040] 12 p1917 N84-22489
Federal government energy management, fiscal year 1981 [DOE/CE-0043] 12 p1917 N84-22490
Fuel efficient engines for large transport --- aircraft [PNR-90196] 13 p1934 N84-22580
General aviation pilot and aircraft activity survey [PB84-154301] 14 p2100 N84-23602
Trends of jet fuel demand and properties 14 p2106 N84-23631
Lean limit control for internal combustion engines [DE84-006542] 15 p2344 N84-25071
Performance derivation of turbojets and turbofans from tests in sea-level test cells 16 p2453 N84-25728
Study of effects of fuel properties in turbine-powered business aircraft [NASA-CR-174627] 16 p2473 N84-25854
Delco performance management system flight test evaluation 17 p2587 N84-26579

Performance validation of Sperry Flight Management Systems (FMS) 17 p2587 N84-26580
Effects of aircraft and flight parameters on energy-efficient profile descents in time-based metered traffic
[NASA-CR-172338] 17 p2604 N84-26685
Develop and test fuel cell powered on-site integrated total energy systems
[NASA-CR-174714] 17 p2723 N84-27329
KC-135 Winglet Program Review
[NASA-CP-2211] 18 p2787 N84-27686
KC-135 winglet program overview 18 p2787 N84-27687
Measurements of the fuel mileage of a KC-135 aircraft with and without winglets 18 p2787 N84-27690
Application of selected advanced technologies to high performance, single-engine, business airplanes
[NASA-CR-172361] 18 p2792 N84-27719
Hybrid vehicle assessment. Phase 1: Petroleum savings analysis
[NASA-CR-173741] 18 p2947 N84-29682
Wind turbine generator interaction with conventional diesel generators on Block Island, Rhode Island. Volume 1: Executive summary
[NASA-CR-168318] 19 p3050 N84-29357
User's manual for a fuel-conservative descent planning algorithm implemented on a small programmable calculator
[NASA-TM-86275] 20 p3129 N84-29871
Energy efficient engine program contributions to aircraft fuel conservation
[NASA-TM-83741] 20 p3130 N84-29876
Feasibility study of a low cost Energy Performance Management System (EPMS) — automatic flight control
[BMFT-FB-W-84-015] 21 p3328 N84-31116
Fuel conservative guidance concept for shipboard landing of powered-lift aircraft
[NASA-TM-85971] 21 p3344 N84-31215
Development and flight evaluation of an augmented stability active controls concept with a small tail
[NASA-CR-173880] 22 p3537 N84-32395
Swedish research in high-temperature ceramics, superalloys 22 p3651 N84-33142
Baseline performance and emissions data for a single-cylinder, direct-injected diesel engine
[NASA-TM-86873] 23 p3836 N84-34330

FUEL CONTAMINATION
Microbial deterioration of hydrocarbon fuels from oil shale, coal and petroleum. III: Inhibition of fungi by fuels from coal
[AD-A137177] 10 p1469 N84-19596
Degradation of jet fuel hydrocarbons by aquatic microbial communities
[AD-A139791] 15 p2304 N84-24822
Hydrogen fluoride formation and metal corrosion in freon-contaminated propellants 20 p3137 N84-29921
Electrostatic filtration of N2O4 for removal of solid and vapor contaminants 20 p3138 N84-29922
Exploratory testing of the MBB 10 N bipropellant engine. Volume 2: Preliminary exhaust plume investigations
[MBB-UR-561-82-VOL-2] 23 p3702 N84-33464

FUEL CONTROL
Heat pipes to reduce engine exhaust emissions
[NASA-CASE-LEW-12590-1] 13 p1997 N84-22958
Ground based testing without wind tunnels 16 p2437 N84-25634

FUEL CORROSION
Corrosion and corrosion prevention in gas turbines
[NLR-MP-82048-U] 10 p1431 N84-19355
Engine wear with methanol fuel in a nitrogen-free environment
[AD-A143530] 22 p3604 N84-32833

FUEL ELEMENTS (NUCLEAR REACTORS)
U NUCLEAR FUEL ELEMENTS

FUEL FLOW
NT PROPELLANT TRANSFER
Numerical simulations of fuel droplet flows using a Lagrangian triangular mesh
[NASA-CR-168263] 03 p0370 N84-12411
Determination of the static performance of a Cuyuna cc model UL-430RR engine
[NASA-CR-175354] 07 p0953 N84-16179
Solid oxide fuel cell having compound cross flow gas patterns
[DE84-014666] 23 p3743 N84-33730

FUEL FLOW REGULATORS
Shuttle orbiter main propulsion system hardware development and certification for flight 20 p3135 N84-29907

FUEL GAGES
Volumetric fuel quantity gauge
[NASA-CASE-LAR-13147-1] 22 p3598 N84-32787

FUEL INJECTION
Evaluation of unthrottled combustion system options for light duty applications with future syncrude derived fuels
[DE83-017047] 03 p0358 N84-12327
Hydrogen pellet injection into Alcator C
[DE83-016878] 04 p0809 N84-14018
Experimental study of the operating characteristics of premixing-prevaporizing fuel/air mixing passages
[NASA-CR-168279] 05 p0830 N84-14143
Aerodynamic effect of combustor inlet-air pressure on fuel jet atomization
[NASA-TM-83611] 13 p1989 N84-22910
Heat pipes to reduce engine exhaust emissions
[NASA-CASE-LEW-12590-1] 13 p1997 N84-22958
Flame propagation in heterogeneous mixtures of fuel drops and air
[NASA-CR-174644] 14 p2131 N84-23775
Design of a combustion chambers with reverse flow for small gas turbines 15 p2290 N84-24742
Recent research on the efflux of the Rolls-Royce vaporiser fuel injector 15 p2290 N84-24743
Liquid fuel atomization and mixing in a high velocity air stream 15 p2291 N84-24746
A droplet evaporation rate controlled combustion model 15 p2293 N84-24761
Electrical spray modification with various fuels in a t56 combustor
[AD-A139961] 15 p2304 N84-24824
Low heat loss laser combustion chamber
[AD-D011107] 22 p3600 N84-32799
Fuel injection device and method
[DE84-014320] 22 p3606 N84-32846

FUEL OILS
Short-term energy outlook. Volume 2. Methodology
[DE83-016853] 03 p0405 N84-12648
Flame propagation in heterogeneous mixtures of fuel drops and air
[NASA-CR-174644] 14 p2131 N84-23775
Characterization of heavy oil sprays in isothermal and burning conditions with laser light scattering measurements in the sideward region 15 p2294 N84-24766
Heat transfer and oil flow studies on a single-stage-to-orbit control-configured winged entry vehicle
[NASA-TM-85833] 20 p3133 N84-29897

FUEL PRODUCTION
Biorefining of selected industrial wastes to liquid fuels and organic chemicals
[DE83-013910] 01 p0054 N84-10346
Catalysed low-temperature production of methane from water and graphite
[DE83-012474] 02 p0203 N84-11325
Technical and economic study of ethanol distillation from low temperature sources
[DE83-013073] 02 p0204 N84-11327
Ethanol fuels reference guide: A decision-makers guide to ethanol fuels
[DE83-014401] 02 p0204 N84-11329
Fluidized bed gasification of biomass to methane
[NASA-CASE-NPO-15903-1] 03 p0403 N84-12635
Vehicle-emission characteristics using mechanically emulsified alcohol/diesel fuels
[DE83-016012] 03 p0406 N84-12656
Procedure for producing higher hydrocarbons
[NRC/CNR-TT-2073] 06 p0800 N84-15217
Biomass electrochemistry
[DE84-000020] 07 p0971 N84-16293
Reliability and maintainability data acquisition in equipment development tests
[DE84-002994] 07 p1084 N84-17051
Alcohol fuels: Options for developing countries
[PB84-129808] 09 p1291 N84-18428
Research on alternative fuels
[CSIR-RME-465] 11 p1639 N84-20711
Assessment of Alternative Aircraft Fuels
[NASA-CP-2307] 14 p2106 N84-23630
Trends of jet fuel demand and properties 14 p2106 N84-23631
The effect of property changes on jet fuel producibility and cost 14 p2106 N84-23632
Vegetable Oil as Diesel Fuel: Seminar 3
[PB84-151323] 14 p2133 N84-23782
Providing R and D (Research and Development) test fuels from alternate energy sources: An assessment of options
[NASA-CR-173427] 14 p2133 N84-23783
Two-stage process for conversion of synthesis gas to high quality transportation fuels
[DE84-009624] 20 p3166 N84-30108
Nutritional and environmental factors in ethanol fermentation by Saccharomyces cerevisiae
[DE84-009693] 20 p3167 N84-30110
Advancement of remote systems technology: Past perspectives and future plans
[DE84-011460] 20 p3198 N84-30309
Review of solar fuel-producing quantum conversion processes
[NASA-CR-173904] 22 p3617 N84-32916
Evaluation of sulfuric acid hydrolysis processes for alcohol fuel production
[DE84-004524] 23 p3715 N84-33548

FUEL PUMPS
Space Shuttle main engine, powerhead structural modeling, stress and fatigue life analysis. Volume 4: Summary of investigation of unscheduled events and special tasks
[NASA-CR-171002] 11 p1625 N84-20638

FUEL SPRAYS
Experimental study of the operating characteristics of premixing-prevaporizing fuel/air mixing passages
[NASA-CR-168279] 05 p0830 N84-14143
Theoretical studies on heterogeneous combustion
[DE84-003178] 07 p0971 N84-16289
Combustion characteristics in the transition region of liquid fuel sprays
[NASA-CR-175396] 10 p1454 N84-19495
Combustion Fundamentals Research
[NASA-CP-2309] 11 p1608 N84-20525
Measurements in liquid fuel sprays 11 p1608 N84-20526
Fuel spray diagnostics 11 p1608 N84-20527
Development and implementation of advanced diagnostic techniques 11 p1608 N84-20528
Analysis and testing of a new method for drop size and velocity measurements using laser light scatter interferometry 11 p1608 N84-20529
Measurement of spray combustion processes 11 p1609 N84-20530
Automatic holographic droplet analysis for liquid fuel sprays 11 p1609 N84-20531
Predictions of spray combustion interactions 11 p1609 N84-20532
Effect of liquid droplets on turbulence structure in a round gaseous jet 11 p1609 N84-20533
Combustion characteristics in the transition region of liquid fuel sprays 11 p1609 N84-20534
Optical measurements of droplet size distributions: Special considerations in the parameter definition for fuel atomizers 15 p2290 N84-24745
Detailed fuel spray analysis techniques 15 p2291 N84-24747
Droplet size distribution and liquid volume concentration in a water spray: Predictions and measurements 15 p2291 N84-24748
A droplet evaporation rate controlled combustion model 15 p2293 N84-24761
Characterization of heavy oil sprays in isothermal and burning conditions with laser light scattering measurements in the sideward region 15 p2294 N84-24766
Electrical spray modification with various fuels in a t56 combustor
[AD-A139961] 15 p2304 N84-24824
Organic azides as jet fuel additives: Synthesis of azides and micro-explosion characteristics of droplets 20 p3144 N84-29963

FUEL SYSTEMS
NT AIRCRAFT FUEL SYSTEMS
Fuel ignition by high voltage capacitive discharges
[PB83-209155] 01 p0039 N84-10245
Statistical evaluation of the effectiveness of the 1976 version of the FMVSS 301: Fuel system integrity
[PB83-205211] 01 p0184 N84-11075
Design and development of military petroleum hoseline system
[AD-A134374] 07 p0960 N84-16222
Emission FTIR analyses of thin microscopic patches of jet fuel residue deposited on heated metal surface
[NASA-CR-168331] 08 p1139 N84-17410
Electrostatic safety with explosion suppressant foams
[AD-A137503] 10 p1424 N84-19314
Fuel system O-ring leaks on post P.D.M. (Programmed Depot Maintenance) C-5A aircraft
[AD-A137885] 11 p1606 N84-20519
Assessment of Alternative Aircraft Fuels
[NASA-CP-2307] 14 p2106 N84-23630
USAF shale oil program status 14 p2107 N84-23633
Fuel property effects on Navy aircraft fuel systems 14 p2109 N84-23647
Methanol viewed as alternative to gasoline 14 p2133 N84-23785
Alternative fuels use in a vehicular gas turbine 15 p2290 N84-24741
Design and development of Shuttle Get-Away-Special experiment G-0074 — off-load capability for a full-tank propellant acquisition system 18 p2800 N84-27770
Refueling considerations for liquid-hydrogen fueled vehicles
[DE84-012623] 22 p3582 N84-32557

Special features of the formation of a bed of polydispersed free-flowing materials
[BLL-M-35674-(5828.4)] 22 p3592 N84-32747
Transverse flow CW atomic iodine laser system
[AD-D011098] 22 p3601 N84-32810
Development of accelerated fuel-engine qualification procedures
[AD-A143845] 23 p3693 N84-33406
Integral manifolding structure for fuel cell core having parallel gas flow
[DE84-014664] 23 p3744 N84-33731
Navy mobility fuels evaluation
[AD-A144171] 24 p3890 N84-34630

FUEL TANK PRESSURIZATION
Survey of techniques employed in the analysis of rocket motor solid propellants
[ED-80-292] 12 p1782 N84-21630

FUEL TANKS
Low temperature behavior of fuels in simulated aircraft tanks
[AD-A130267] 01 p0052 N84-10336
Cryogenic insulation strength and bond tester
[NASA-CASE-MFS-25910-1] 02 p0199 N84-11297
Seamless collapsible fuel tanks
[AD-A131933] 03 p0363 N84-12496
Permeability of flexible materials used in fuel storage tanks. Part 1: General review
[MRL-TN-459] 05 p0662 N84-14353
Permeability of flexible materials used in fuel storage tanks. Part 2: A method of measurement and preliminary results
[AD-A133451] 06 p0853 N84-15558
Integrated aircraft fuel tank inerting and compartment fire suppression system. Volume 2: Evaluation of nitrogen-enriched air as a fire suppressant
[AD-A134883] 08 p1101 N84-17157
A wind tunnel investigation to determine dominant forebody strake design characteristics for an F-15 equipped with conformal fuel tanks
[AD-A136912] 10 p1421 N84-19292
Evaluation of the epoxy system for the repair of fuel tank M109
[AD-A136923] 10 p1467 N84-19583
Tanker orbit transfer vehicle and method
[NASA-CASE-MSC-20543-1] 13 p1939 N84-22610
In-flight atmospheric and fuel tank temperature measurements 14 p2108 N84-23643
Interactions between F-111 fuselage fuel tank sealants. Part 1: Characterisation of polyester sealants and their hydrolytic degradation products
[MRL-R-857-PT-1] 16 p2470 N84-25826
Development and fabrication of collapsible fuel storage drums for arctic use
[AD-A141207] 18 p2798 N84-27754
Aircraft fuel tank inerting system
[AD-A141863] 19 p2964 N84-28785
Fluorinated polyurethanes
[AD-D011066] 19 p3000 N84-29011
Method of making compartmented, filament wound, one-piece aircraft fuel tanks
[AD-D011144] 22 p3534 N84-32376
Volumetric fuel quantity gauge
[NASA-CASE-LAR-13147-1] 22 p3598 N84-32787
Advanced onboard storage concepts for natural gas-fueled automotive vehicles
[NASA-CR-174655] 23 p3790 N84-34036

FUEL TESTS
NT REACTOR STARTUP TESTS
Research on alternative fuels
[CSIR-RME-465] 11 p1639 N84-20711
USAF shale oil program status 14 p2107 N84-23633
Influence of fuel chemical properties on gas turbine combustors 14 p2107 N84-23634
Fuel property effects on Navy aircraft fuel systems 14 p2109 N84-23647
Fuel fire tests of the helicopter crewman jacket
[AD-A140037] 15 p2385 N84-25302
Fuel fire tests of polytetra-fluoroethylene anti-exposure suits
[AD-A140038] 15 p2385 N84-25303
Development of carbon slurry fuels for transportation (hybrid fuels, phase 2)
[NASA-CR-174659] 19 p2992 N84-28960
Aviation fuels, 1983
[DE84-011823] 20 p3166 N84-30106
Utilization of SRC-2 fuel in an insulated diesel engine
[DE84-004366] 20 p3167 N84-30111

FUEL-AIR RATIO
Dependence of evolution of toxic gases on burning conditions 04 p0514 N84-13377
Experimental study of the operating characteristics of premixing-prevaporizing fuel/air mixing passages
[NASA-CR-168279] 05 p0830 N84-14143
Chemical kinetics modeling of engine knock: Preliminary results
[DE84-001236] 06 p0802 N84-15226
NASA/General Electric broad-specification fuels combustion technology program 14 p2107 N84-23636
Detailed fuel spray analysis techniques 15 p2291 N84-24747
Investigation of the kinetics of catalyzed combustion of fuel
[AD-A142153] 19 p2989 N84-28939

FUELING
U REFUELING

FUELS
NT ACTIVATED CARBON
NT AIRCRAFT FUELS
NT AUTOMOBILE FUELS
NT CHEMICAL FUELS
NT COAL
NT COKE
NT CRYOGENIC ROCKET PROPELLANTS
NT DIESEL FUELS
NT DOUBLE BASE ROCKET PROPELLANTS
NT FOSSIL FUELS
NT FUEL OILS
NT GASEOUS FUELS
NT GASOHOL (FUEL)
NT GASOLINE
NT HIGH ENERGY FUELS
NT HYDROCARBON FUELS
NT HYDROGEN FUELS
NT HYPERGOLIC ROCKET PROPELLANTS
NT JET ENGINE FUELS
NT JP-4 JET FUEL
NT JP-5 JET FUEL
NT KEROSENE
NT LIQUEFIED NATURAL GAS
NT LIQUID FUELS
NT LIQUID ROCKET PROPELLANTS
NT METAL FUELS
NT METAL PROPELLANTS
NT MONOPROPELLANTS
NT NUCLEAR FUELS
NT PEAT
NT SLURRY PROPELLANTS
NT SOLID ROCKET PROPELLANTS
NT SPENT FUELS
NT SYNTHETIC FUELS
Combustion at the interface of an oxidizer-fuel slab system 06 p0800 N84-15215
Effects of fuels on the physical properties of nitrile rubber O-rings
[AD-A136647] 10 p1470 N84-19599
Group-type hydrocarbon standards for high-performance liquid chromatographic analysis of middistillate fuels
[NASA-TP-2317] 14 p2131 N84-23774
The effects of fuel composition upon heat transfer in gas turbine combustors 15 p2290 N84-24740
New variant of evaluation of predicted petroleum and as reserves on genetic basis 17 p2703 N84-27219
A survey of gas-side fouling measuring devices
[NASA-CR-173734] 18 p2836 N84-28003
Research and development of alcohol fuel usage in spark ignited engines
[DE84-011177] 21 p3374 N84-31412
Navy mobility fuels evaluation
[AD-A144171] 24 p3890 N84-34630

FUMES
Generation, collection, and analysis of welding fumes
[PB84-116607] 09 p1326 N84-18663

FUNCTION GENERATORS
Low frequency ac waveform generator
[DE84-014310] 23 p3743 N84-33726

FUNCTION SPACE
NT BANACH SPACE
NT HILBERT SPACE
NT SOBOLEV SPACE
On complex rational approximation by interpolation at preselected nodes
[AD-A130526] 01 p0131 N84-10855
The specific solutions of a uniform algebraic differential equation of the second order
[ISSN-0066-1953] 04 p0575 N84-13783
Twisted sums of nuclear Frechet spaces 04 p0576 N84-13800
Optimal reconstructions and n-widths
[AD-A133576] 06 p0902 N84-15853
L2-projection for transferring data between finite element meshes
[DE84-000083] 08 p1221 N84-17973
The mathematical structure of elementary particles
[AD-A136295] 09 p1387 N84-19060
Annals of the Fourier Institute, volume 33, no. 4
[ISSN-0373-0956] 13 p2031 N84-23172
Formal and group Picard localization 13 p2032 N84-23174
Thin sets in nonlinear potential theory 13 p2032 N84-23178
Density and dimension — the Vapnik-Cervonenkis class of subsets 14 p2211 N84-24275
On the optimal approximation rates for criss-cross finite element spaces
[PREPRINT-622] 15 p2397 N84-25378
Middle East Technical University Journal of Pure and Applied Sciences, volume 15, no. 2 15 p2401 N84-25406
Lower and upper bounds for EXP d+(X,Y) 15 p2401 N84-25408
Annals of the Fourier Institute, volume 34, no. 1
[ISSN-0373-0956] 22 p3633 N84-33025
On the boundary limits of harmonic functions with gradient in L sup p 22 p3634 N84-33030
The Levi problem for cohomology classes 22 p3634 N84-33032
On the closure of spaces of sums of ridge functions and the range of the X-ray transform 22 p3635 N84-33035
Annals of the Fourier Institute, volume 34, no. 2
[ISSN-0373-0956] 22 p3635 N84-33038
On the A-integrability of singular integral transforms 22 p3635 N84-33042
Infinitesmal deformation of locally symmetrical Riemann spaces. 2: Blaschke's infinitesimal conjecture for complex projective space 22 p3636 N84-33049
Serre's spectral sequence and homotopy 22 p3636 N84-33050

FUNCTIONAL ANALYSIS
NT BANACH SPACE
NT CONVOLUTION INTEGRALS
NT FOURIER TRANSFORMATION
NT FREDHOLM EQUATIONS
NT HARMONIC ANALYSIS
NT HILBERT SPACE
NT HILBERT TRANSFORMATION
NT INTEGRAL EQUATIONS
NT INTEGRAL TRANSFORMATIONS
NT J INTEGRAL
NT LAPLACE TRANSFORMATION
NT SOBOLEV SPACE
NT VOLTERRA EQUATIONS
Performance and robustness aspects of digital control systems 01 p0015 N84-10098
Systematic computer aided control design 01 p0015 N84-10100
A computer subroutine for evaluating polygamma functions for complex arguments
[AD-A131936] 03 p0420 N84-12744
The specific solutions of a uniform algebraic differential equation of the second order
[ISSN-0066-1953] 04 p0575 N84-13783
Quasicon formal extensions, Fredholm eigenvalues, and Grunsky coefficient conditions 04 p0577 N84-13804
A high-order test for optimality of bang-bang controls
[AD-A136375] 09 p1371 N84-18954
Smoothing, regularization and ill-posed inverse problems; robust and convex estimation of functions of several variables
[AD-A137810] 11 p1714 N84-21176
Normal modes of a LaGrangian system constrained in potential well
[AD-A137948] 11 p1715 N84-21187
Minimax methods for indefinite functionals
[AD-A137953] 11 p1716 N84-21190
Applications of functional analytic and Martingale methods to problems in queueing network theory
[AD-A137748] 11 p1718 N84-21208

FUNCTIONAL DESIGN SPECIFICATIONS
Layout of a SAR sensor for Spacelab and satellite. Part 1: Design considerations for fundamental SAR parameters
[ESA-TT-802] 03 p0343 N84-12224
Space station attitude control system concept and requirements 03 p0344 N84-12234
Influence of the airframe on the performance of antennas for avionics 03 p0364 N84-12372
Space reactors: Past, present and future
[DE83-011177] 03 p0437 N84-12870
A Specification Assistance System (SAS) 05 p0721 N84-14731
EDDA: A very high level data flow specification language 05 p0722 N84-14735
Helix and Felix: Loading standards for use in the fatigue evaluation of helicopter rotor components
[NLR-MP-82041-U] 06 p0787 N84-15149
Radiation effects in the Joint European Torus Experiment: Guidelines for preliminary design
[R857/2] 06 p0919 N84-15971
Modular stellarator reactor: A Fusion power plant
[DE84-002268] 07 p1077 N84-17001

The integrated mission-planning station: Functional requirements, aviator-computer dialogue, and human engineering design criteria
[AD-A136909] 10 p1430 N84-19352
Guide for designing pyrotechnics systems for payloads on manned or unmanned vehicles
[SNIAS-NT-2-01(0)] 12 p1803 N84-21757
A general purpose guidance simulation program: Software definition
[BAE-BT-13122] 13 p2026 N84-23132
Guide for designing industrial high tension networks
[CAHIERS-TECHNIQUES-124] 15 p2330 N84-24994
Status of understanding for gear materials 15 p2342 N84-25061
Status of understanding for seal materials 15 p2343 N84-25062
Qualification testing of solar photovoltaic powered refrigerator freezers for medical use in remote geographic locations
[NASA-CR-168181] 15 p2361 N84-25162
The SIFT code specification 15 p2387 N84-25316
Propulsion issues for advanced orbit transfer vehicles
[NASA-TM-83624] 16 p2459 N84-25762
Evaluation of two polyimides and of an improved liner retention design for self-lubricating bushings
[NASA-TM-83719] 18 p2817 N84-27887
Propulsion issues for advanced orbit transfer vehicles 20 p3140 N84-29937
Large Deployable Reflector Science and Technology Workshop. Volume 3: Systems and Technology Assessment
[NASA-CP-2275-VOL-3] 21 p3523 N84-32318
Large Deployable Reflector Science and Technology Workshop. Volume 3: Systems and technology assessment. Introduction 21 p3523 N84-32319
Large Deployable Reflector Science and Technology Workshop. Volume 3: Systems and technology assessment. Conclusions 21 p3523 N84-32321
Autonomous Integrated Receive System (AIRS) requirements definition. Volume 2: Design and development
[NASA-CR-175262] 22 p3576 N84-32647
Viking lander: Creating the science teams 24 p3991 N84-35255

FUNCTIONAL INTEGRATION
The relations between the numerical control of the engine and other aircraft functions 03 p0315 N84-12062
Legendre-tau approximation for functional differential equations. Part 2: The linear quadratic optimal control problem
[NASA-CR-172397] 20 p3280 N84-30618

FUNCTIONALS
Multiple critical points of invariant functionals and applications
[AD-A130544] 01 p0130 N84-10853
Canonical derivation of the Vlasov-Coulomb noncanonical poisson structure
[DE84-002909] 07 p1064 N84-16900
Generalized functions as linear functionals on generalized functions
[MC-ZW-199/83] 07 p1065 N84-16912
A variational formulation for dissipative maps
[REPT-81] 20 p3283 N84-30846

FUNCTIONS
Design and development of the multifunction flight control reference system 03 p0316 N84-12065
Operational and functional description of the AERA packages
[AD-A136852] 10 p1426 N84-19326
Morse theory for symmetric functionals on the sphere and an application to a bifurcation problem
[AD-A141709] 19 p3087 N84-29596

FUNCTIONS (MATHEMATICS)
NT ABEL FUNCTION
NT ANALYTIC FUNCTIONS
NT ASYMPTOTES
NT BOOLEAN FUNCTIONS
NT CONFORMAL MAPPING
NT COORDINATE TRANSFORMATIONS
NT COSINE SERIES
NT DISCRETE FUNCTIONS
NT DISCRIMINANT ANALYSIS (STATISTICS)
NT DISTRIBUTION FUNCTIONS
NT ELLIPTIC FUNCTIONS
NT ENTIRE FUNCTIONS
NT ERROR FUNCTIONS
NT EXPONENTIAL FUNCTIONS
NT FOURIER TRANSFORMATION
NT FRESNEL INTEGRALS
NT GAMMA FUNCTION
NT GREEN'S FUNCTIONS
NT HAMILTONIAN FUNCTIONS
NT HARMONIC FUNCTIONS
NT HYPERBOLIC FUNCTIONS
NT KERNEL FUNCTIONS
NT LAGUERRE FUNCTIONS
NT LAME FUNCTIONS
NT LAPLACE TRANSFORMATION
NT LEGENDRE FUNCTIONS
NT LIAPUNOV FUNCTIONS
NT LOGARITHMS
NT LORENTZ TRANSFORMATIONS
NT MAXWELL-BOLTZMANN DENSITY FUNCTION
NT MEROMORPHIC FUNCTIONS
NT MODULATION TRANSFER FUNCTION
NT MONOTONE FUNCTIONS
NT NORMAL DENSITY FUNCTIONS
NT OPTICAL TRANSFER FUNCTION
NT ORTHOGONAL FUNCTIONS
NT PENALTY FUNCTION
NT PERIODIC FUNCTIONS
NT POINT SPREAD FUNCTIONS
NT POISSON DENSITY FUNCTIONS
NT PROBABILITY DENSITY FUNCTIONS
NT PROBABILITY DISTRIBUTION FUNCTIONS
NT RATIONAL FUNCTIONS
NT RAYLEIGH DISTRIBUTION
NT RECURSIVE FUNCTIONS
NT SCHWARZ-CHRISTOFFEL TRANSFORMATION
NT SPACE-TIME FUNCTIONS
NT SPHERICAL HARMONICS
NT SPLINE FUNCTIONS
NT STRESS FUNCTIONS
NT TANGENTS
NT TIME FUNCTIONS
NT TRANSCENDENTAL FUNCTIONS
NT TRANSFER FUNCTIONS
NT WALSH FUNCTION
NT WEIBULL DENSITY FUNCTIONS
NT WEIGHTING FUNCTIONS
Probability expressions, with applications to fault testing in digital networks
[AD-A131367] 02 p0284 N84-11860
On the Fatou set of monic polynomials 04 p0575 N84-13788
Combining testing with formal specifications: A case study
[AD-A134110] 05 p0726 N84-14784
Cauchy flux and sets of finite perimeter
[AD-A132834] 05 p0737 N84-14840
Implementation of a subgradient projection algorithm II
[AD-A132835] 05 p0737 N84-14841
Total positivity, a review
[AD-A133691] 05 p0740 N84-14859
Constrained function minimization. Comparison of the augmented Lagrangian and sequentially increasing penalty method
[PB83-217265] 06 p0903 N84-15863
Aeroelastic analysis using nonlinear aerodynamic methods
[AD-A135133] 08 p1099 N84-17146
Smoothing, regularization and ill-posed inverse problems; robust and convex estimation of functions of several variables
[AD-A137810] 11 p1714 N84-21176
An umful of blinding functions 12 p1870 N84-22184
Generalized convexity and concavity properties of the optimal value function in parametric nonlinear programming
[AD-A138220] 12 p1882 N84-22265
On the asymptotics of maximum likelihood and related estimators based on type 2 censored data
[AD-A137958] 12 p1896 N84-22348
Littlewood Paley's g function associated with a singular differential operator (0, infinity) 13 p2032 N84-23180
Formulas for the L-2 minimal solutions of the Delta Delta bar equation in the unit ball of C sup N
[CTH-MATH-1983-16-PREPRINT] 13 p2034 N84-23189
Synthesis of multivalued logic circuits using hyperplanes
[AD-P002335] 14 p2190 N84-24126
Generation of ternary majority functions of four or less variables
[AD-P002337] 14 p2190 N84-24128
On the number of locations required in the content-addressable memory implementation of multiple-varied functions
[AD-P002338] 14 p2190 N84-24129
Selfdual classes and automorphism groups
[AD-P002341] 14 p2191 N84-24132
A comparison of fuzzy switching functions and multiple-valued switching functions
[AD-P002363] 14 p2193 N84-24154
Regular ternary logic functions. Ternary logic functions suitable for treating ambiguity
[AD-P002366] 14 p2194 N84-24157
Mx, A mix-valued algebra
[AD-P002371] 14 p2195 N84-24162
The synthesis of ternary functions under fixed polarities and ternary I-2L circuits
[AD-P002381] 14 p2196 N84-24172
On the extremum of bilinear functional for hyperbolic type P.D.E.
[AD-P002942] 14 p2197 N84-24182
Explicit formulas for C to the nth power piecewise Hermite basis functions
[AD-P002978] 14 p2202 N84-24214
On the moments of an additive function 14 p2210 N84-24265
An efficient method for the conversion to residue number systems and its application to convolutions
[FUB-53-1982] 14 p2220 N84-24319
NERF: A computer program for the numerical evaluation of reliability functions-reliability modeling, numerical methods and program documentation
[AR-00-984] 16 p2500 N84-26048
Functions in first order data bases 16 p2565 N84-26461
On the Kakeya problem
[CTH-MATH-1983-23] 17 p2759 N84-27520
On K-theory of conical fibrations
[CTH-MATH-1983-25] 17 p2761 N84-27540
An application of the H-function to curve-fitting and density estimation
[AD-A141045] 18 p2925 N84-28553
The duality between expected utility and penalty in stochastic linear programming
[AD-A141393] 19 p3075 N84-29513
A Taylor series in symmetry-adaptable functions
[AD-A142336] 20 p3290 N84-30819
Upper bounds for the numbers of solutions of diophantine equations
[MATH-CENTRE-TRACTS-168] 21 p3474 N84-32019
Sequential method of minimizing nonlinear function on simplex 21 p3484 N84-32060
Wiener-Hopf technique for the equation U(alpha) = K(alpha) L(alpha) + D(alpha) in the case of function K(alpha) with zeroes
[ISSN-0208-5658] 23 p3729 N84-33632
On square-full integers in a short interval
[MATHS-RES-170] 23 p3818 N84-34212

FUNGI
NT MICROSPORES
NT SACCHAROMYCES
NT YEAST
Studies of proteinograms in dermatophytes by disc electrophoresis. 1. Protein bands in relation to growth phase
[NASA-TM-77095] 07 p1042 N84-16755
Microbial deterioration of hydrocarbon fuels from oil shale, coal and petroleum. III: Inhibition of fungi by fuels from coal
[AD-A137177] 10 p1469 N84-19596
Studies on proteinograms in dermatorphytes by disc electrophoresis. Part 2: Protein bands of keratinophilic fungi
[NASA-TM-77096] 10 p1545 N84-20127

FURAN RESINS
NT KEVLAR (TRADEMARK)
NT POLYAMIDE RESINS
Heat: Initiated furan resin for rapid runway repair
[AD-A140902] 17 p2611 N84-26713

FURANS
NT TETRAHYDROFURAN
Anodic oxidation of furans in aprotic solvents
[AD-A137081] 10 p1468 N84-19587
Mass spectroscopic investigations of the reactions of O2 (1 deltag) with furan, 2-methylfuran, and 2,5-dimethylfuran in the gas phase
[MPIS-7/1983] 13 p1958 N84-22731
Calorimetric determination of the thermodynamic behavior of reversible liquid-phase reactions for use in energy storage
[DE84-010437] 21 p3507 N84-32218

FURNACES
NT ELECTRIC FURNACES
NT IMAGE FURNACES
NT VACUUM FURNACES
A simple mathematical model for heat transfer and its application for continuous type reheating furnaces 01 p0077 N84-10503
Choice of a melting installation for aluminum alloy
[BLL-OA-TRANS-3095-(6196.3)] 06 p0804 N84-15239
Method for the production of electrographite involving about 50% reduction of electrical energy
[BMFT-FB-T-83-162] 07 p0968 N84-16275
Public announcement of flight opportunity for materials science experiments on the Spacelab Mission D1: Extract
[NASA-TM-77277] 10 p1434 N84-19378

Assessment of ceramic materials technology for heat exchangers
[DE84-005748] 12 p1802 N84-21748
High-temperature CVD heat pipe development
[DE83-017693] 12 p1816 N84-21838
Direct digital control of the electric arc furnace
[RR-233] 13 p1974 N84-22811
Reduced electric reactance for electric arc furnace
[BMFT-FB-T-83-303] 15 p2328 N84-24976
Engineering method of calculating the temperature field of solid and hollow cylinders
[BLL-M-35561-(5828.4)] 17 p2665 N84-26995
Furnace transient anneal process and apparatus
[AD-D011048] 19 p3002 N84-29027
Improved graphite furnace atomizer
[DE84-011091] 20 p3190 N84-30263
High temperature metallic recuperator
[PB84-207869] 22 p3564 N84-32575

FUSELAGE MOUNTING
U AIRCRAFT PRODUCTION

FUSELAGES
Vertical drop test of a transport fuselage section located forward of the wing
[NASA-TM-85679] 01 p0094 N84-10611
Light aircraft sound transmission study
[NASA-CR-174540] 01 p0139 N84-10910
Field-incidence transmission of treated orthotropic and laminated composite panels
[NASA-TM-85660] 01 p0139 N84-10911
YC-15 EBF (Externally-Blown Flap) STOL (Short Takeoff and Landing) airplane fuselage and interior noise environment
[AD-A131462] 02 p0178 N84-11164
Transmission of sound through a cylindrical shell and a light aircraft fuselage 02 p0287 N84-11881
Vertical drop test of a transport fuselage center section including the wheel wells
[NASA-TM-85706] 03 p0368 N84-12531
Vortex flap flow reattachment line and subsonic longitudinal aerodynamic data on 50 deg to 74 deg Delta wings on common fuselage
[NASA-TM-84618] 04 p0480 N84-13160
Study of turbulent flow in a wing-fuselage type juncture 05 p0628 N84-14128
Analysis of airborne antenna pattern and mutual coupling and their effects on adaptive array performance 05 p0672 N84-14416
Wind tunnel investigations of glider fuselages with different waistings and wing arrangements 06 p0781 N84-15116
Calculation of the aerodynamic flow field in the vicinity of a Sea King helicopter
[ARL-AERO-REPT-158] 08 p1096 N84-17128
Noise-reduction measurements of stiffened and unstiffened cylindrical models of an airplane fuselage
[NASA-TM-85716] 09 p1366 N84-19052
Crew survivable helicopter undercarriage
[AD-A137770] 11 p1606 N84-20517
Cleaning compound efficiency; test method for aircraft surface cleaners
[AD-A138515] 12 p1764 N84-21504
Surface grid generation for wing-fuselage bodies 12 p1870 N84-22186
The aerodynamic effects of cavities in a body
[BU-289] 15 p2256 N84-24547
The use of Arall in fuselage skins
[AD-B080631] 15 p2260 N84-24572
Interactions between F-111 fuselage fuel tank sealants. Part 1: Characterization of polyester sealants and their hydrolytic degradation products
[MRL-R-857-PT-1] 16 p2470 N84-25828
International aviation (selected articles)
[AD-A140895] 17 p2601 N84-26671
Note on the structural failure of Handley page 88 (E6/48) VX.330
[RAE-STRUCT-ACC-245] 17 p2603 N84-26678
Experimental study using Nearfield Acoustical Holography of sound transmission fuselage sidewall structures
[NASA-CR-173639] 17 p2671 N84-27024
Effect of fuselage upwash on the supersonic longitudinal aerodynamic characteristics of 2 fighter configurations
[NASA-TP-2330] 18 p2785 N84-27676
XSECT: A computer code for generating fuselage cross sections - user's manual
[NASA-TM-83218] 18 p2788 N84-27696
Interference drag in a simulated wing-fuselage juncture
[NASA-CR-3611] 20 p3126 N84-29853
Impact dynamics research on composite transport structures 20 p3146 N84-29975
Postbuckling behavior of graphite-epoxy panels 20 p3146 N84-29976
Studies of noise transmission in advanced composite material structures 20 p3146 N84-29977
Fuselage torsion of a CT4 aircraft
[AD-A142753] 21 p3328 N84-31114
Oscillations of elastic airplane due to wind gust 21 p3485 N84-32087
Fuselage and nozzle pressure distributions of a 1/12-scale F-15 propulsion model at transonic speeds. Effect of fuselage modifications and nozzle variables
[NASA-TP-2333] 22 p3531 N84-32354
Helicopter anti-torque system using strakes
[NASA-CASE-LAR-13233-1] 23 p3692 N84-33400

FUSES (ORDNANCE)
Fluidic generator to power rocket proximity fuze
[AD-A131062] 01 p0029 N84-10184
Low-cost stator material for M734 alternators
[AD-A126804] 07 p0997 N84-16464

FUSIFORM SHAPES
U CONES

FUSION (MELTING)
Absorbable-susceptor joining of ceramic surfaces
[NASA-CASE-NPO-15640-1] 13 p1982 N84-22748
Multicolor printing plate joining
[NASA-CASE-LEW-13598-1] 13 p1992 N84-22930
Development of protective coatings obtained by low pressure plasma spraying 18 p2934 N84-28607
Increasing fusion efficiency in laser welding with dynamic beam focusing 23 p3710 N84-33516

FUSION REACTORS
NT SPHEROMAKS
Fusion materials irradiation test facility test-cell instrumentation
[DE83-012823] 01 p0085 N84-10552
Development of an engineering-scale nuclear test of a solid-breeder fusion-blanket concept
[DE83-016861] 01 p0151 N84-10992
Lithium equation-of-state
[DE83-017986] 03 p0347 N84-12253
Advanced high-field coil designs: 20 Tesla
[DE83-017368] 03 p0366 N84-12397
Feasibility of a laser or charged-particle-beam fusion-reactor concept with direct electric generation by magnetic-flux compression
[DE83-015735] 03 p0381 N84-12482
Tokamak fusion reactors with less than full tritium breeding
[DE83-016711] 03 p0446 N84-12936
Summary of the MARS tandem-mirror reactor design
[DE83-017293] 03 p0447 N84-12939
Nuclear design of a very-low-activation fusion reactor
[DE83-017470] 03 p0448 N84-12949
External wave-launcher study
[DE84-001124] 04 p0523 N84-13441
Neutron measurements and radiation damage calculations for fusion materials studies
[DE83-014790] 04 p0608 N84-14011
Modification of alloy surface composition by segregation processes as a means of impurity control in fusion devices
[DE84-003645] 08 p1134 N84-17373
Effects of pulsed and/or dual ion irradiation on microstructural evolution in a Ti and Si modified Austenitic alloy
[DE84-003411] 08 p1134 N84-17374
Circular waveguide systems for electron-cyclotron-resonant heating of the tandem mirror experiment-upgrade
[DE84-003739] 08 p1233 N84-18062
Thermal creep and stress-affected precipitation of 20% cold-worked 316 stainless steel
[DE84-004933] 10 p1461 N84-19539
Chemical treatment of silicate glasses for producing anti-reflection surfaces
[DE84-005865] 11 p1732 N84-21299
Conceptual design of the RFC reactor
[IPPJ-659] 11 p1733 N84-21304
Compact toroids with rotating halo-the spintor
[IPPJ-658] 11 p1734 N84-21306
Numerical analyses for scrape-off plasmas in FER divertor chamber 11 p1734 N84-21313
Heavy ion fusion reactor HIBLIC-1. Conceptual design of heavy ion fusion reactor
[IPPJ-663] 12 p1909 N84-22438
Gas filled dynamics for laser driven fusion reactors
[DE84-005181] 12 p1910 N84-22444
Inertial confinement fusion reactor studies
[DE84-006675] 18 p2933 N84-28602
Ceramics for fusion devices
[DE84-011409] 20 p3162 N84-30082
Perspective of the corrosive behavior of lithium and sodium
[DE84-011635] 21 p3367 N84-31362
START/TM: A study of start-up and fractional power operation of tandem mirror fusion reactors
[DE84-011477] 21 p3502 N84-32196
High density Z pinch as a small low-energy fusion device
[DE84-009992] 21 p3502 N84-32198
Wide spectrum antireflective coating for laser fusion systems
[DE84-013211] 22 p3601 N84-32814
Synergistic effects in plasma surface interactions
[DE84-012346] 22 p3660 N84-33199

FUSION WEAPONS
Pulsed power bibliography. Volume 2: Annotated bibliography
[AD-A131753] 03 p0379 N84-12468
Pulsed power bibliography. Volume 1: Indices
[AD-A131752] 03 p0379 N84-12469

FUSION WELDING
NT ARC WELDING
NT BRAZING
NT ELECTRON BEAM WELDING
NT ELECTROSLAG WELDING
NT GAS TUNGSTEN ARC WELDING
NT GAS WELDING
Effects of preheat on weldments of NICOP steel
[AD-A137145] 10 p1458 N84-19524
Factory splicing of optical waveguide fiber 11 p1720 N84-21222
Damage to welding seams --- cracks 14 p2126 N84-23748
Ultra lightweight mirror fabrication technology
[AD-A140019] 15 p2408 N84-25454
Fusing capacity of concentrated laser beam 23 p3710 N84-33515
Effect of surface condition and edge preparation on metal fusion during laser welding 23 p3710 N84-33518

FUZZY SETS
Introduction to fuzzy decision rules
[INPE-2855-TDL/143] 02 p0286 N84-11875
Projective monads and extensions of functors
[MC-ZW-195/83] 07 p1065 N84-16909
A unified approach to modeling and combining of evidence through random set theory
[AD-P002880] 13 p1978 N84-22841
An approach to fuzziness in the setting of Lukasiewicz logic
[AD-P002357] 14 p2193 N84-24148
A comparison of fuzzy switching functions and multiple-valued switching functions
[AD-P002363] 14 p2193 N84-24154
Fuzzy reasoning under new compositional rules of inference
[AD-P002364] 14 p2194 N84-24155
A study of fuzzy relations and their inverse problem
[AD-P002365] 14 p2194 N84-24156
Decision algorithms in fuzzy situations
[AD-P002968] 14 p2201 N84-24205
Tutorial: Fuzzy sets and applications
[INPE-3168-PRE/538] 21 p3471 N84-31998
Degrees of adjacency or surroundedness
[AD-A143528] 22 p3646 N84-33118
Quantitative treatment of fuzzy relations in the process of allocating resources to R and D projects
[INPE-2761-PRE/336] 22 p3668 N84-33251

FUZZY SYSTEMS
Introduction to fuzzy decision rules
[INPE-2855-TDL/143] 02 p0286 N84-11875
A unified approach to modeling and combining of evidence through random set theory
[AD-P002880] 13 p1978 N84-22841
In the labyrinth of many valued logics
[AD-P002331] 14 p2190 N84-24122
Quasitransitive algebras
[AD-P002343] 14 p2191 N84-24134
Fuzzy algorithms for pattern recognition
[AD-P003119] 16 p2533 N84-26260

F4H AIRCRAFT
U F-4 AIRCRAFT

F8U AIRCRAFT
U F-8 AIRCRAFT

G

G FORCE
U ACCELERATION (PHYSICS)

GADOLINIUM
EPR spectra of rare earth s-state ions in glassy systems
[DE83-014686] 01 p0155 N84-11022

GADOLINIUM ALLOYS
Low-hysteresis materials for magnetic refrigeration: Gd sub 1-x/Er sub x/Al2
[DE84-001685] 04 p0505 N84-13307
Thermomagnetic properties of GdPd
[DE84-009991] 22 p3556 N84-32515

GAGES
U MEASURING INSTRUMENTS

GAIN (AMPLIFICATION)
U AMPLIFICATION

GALACTIC CLUSTERS
NT VIRGO GALACTIC CLUSTER
Microwave studies of hot intracluster gas
02 p0306 N84-12011
Faint galaxies in the Coma cluster: Luminosity function and spatial distribution
03 p0464 N84-13053
An X-ray survey of clusters of galaxies with the Einstein Observatory and a study of iron sedimentation in the intracluster gas
10 p1595 N84-20454
V-V compact group of galaxies
[NASA-CR-173609] 16 p2577 N84-26537
Dynamical studies of clusters of galaxies
17 p2775 N84-27619
UV-bright stars in galactic globular clusters, their far-UV spectra and their contribution to the globular cluster luminosity
24 p3974 N84-35164
IUE integrated spectra of galactic globular clusters
24 p3982 N84-35230
X-ray spectra of clusters of galaxies
[NASA-TM-86115] 24 p3982 N84-35234
Temperature and elemental abundances in the Abell cluster A 576 derived from X-ray observations
[NASA-TM-85103] 24 p3987 N84-35238
GALACTIC COSMIC RAYS
Medium energy gamma rays from the galactic center region
04 p0622 N84-14100
The galactic acceleration of ultrahigh energy cosmic rays
[DE84-012442] 20 p3320 N84-31080
GALACTIC EVOLUTION
The 182-Hf: A new short-lived r-process chronometer
[DE83-015698] 05 p0764 N84-15009
The physical nature of the continuum in active galaxies
08 p1243 N84-18128
Royal Observatory, Edinburgh: Research and Facilities 1983
[ISBN-0-902553-27-5] 10 p1594 N84-20446
Cosmology
10 p1594 N84-20447
The life cycle of stars
10 p1594 N84-20450
Galactic explosions, cosmic dust invasions, and climatic change
11 p1757 N84-21469
Self-regulating galaxy formation. Part 1: HII disk and Lyman alpha pressure
[NASA-CR-173592] 16 p2577 N84-26535
Galactic cycles and their relationship to life on Earth
[DE84-011737] 21 p3525 N84-32329
Three-dimensional model for fusion processes
[DE84-011731] 21 p3526 N84-32339
An upper limit to the Beryllium abundance in the population 2 star HD 140283 from a high resoluion IUE spectrum
24 p3974 N84-35167
GALACTIC NUCLEI
Rapid X-ray variability of active galaxies
[NASA-TM-85101] 01 p0165 N84-11082
Photon damping in cosmic-ray acceleration in active galactic nuclei
[DE83-011320] 03 p0476 N84-13133
Soft X-ray spectral observations of quasars and high X-ray luminosity Seyfert galaxies
[NASA-TM-85118] 04 p0619 N84-14082
Self-consistent spherical accretion and models of quasars
04 p0620 N84-14088
X-ray spectra and time variability of active galactic nuclei
[NASA-TM-86071] 12 p1922 N84-22519
Far-IR spectroscopy of the galactic center: Neutral and ionized gas in the central 10 pc of the galaxy
[NASA-CR-166510] 13 p2070 N84-23411
LHEA contributions to the Future of Ultraviolet Astronomy Based on Six Years of IUE Research
[NASA-TM-86098] 15 p2423 N84-25559
Origins of the 3.28 micron dust emission feature
16 p2571 N84-26500
Cosmic rays and the emission line regions of active galactic nuclei
[NASA-TM-86110] 16 p2582 N84-26561
Accretion disks, precessing jets and the asymmetric emission lines of QSOs
[NASA-CR-173632] 17 p2774 N84-27613
Abundances in galactic H2 regions, 3: G25.4-0.2, G45.5+0.06, M8, S159 and DR22
[NASA-TM-85962] 17 p2774 N84-27616
High resolution surface photometry of elliptical galaxies
17 p2776 N84-27625
Photon losses in cosmic ray acceleration in active galactic nuclei
[DE84-012583] 20 p3321 N84-31081
The kinematics of the emission line gas in quasars and active galactic nuclei
21 p3524 N84-32326
Photon-photon absorption and the uniqueness of the spectra of active galactic nuclei
[NASA-TM-86117] 21 p3526 N84-32338
Three-dimensional model for fusion processes
[DE84-011731] 21 p3526 N84-32339
Study of hot spot galaxies
24 p3971 N84-35143
The broad absorption line region in NGC 4151
24 p3971 N84-35146
IUE observations of multiple nucleus galaxies
24 p3971 N84-35148
Multifrequency observations of three active galaxies
24 p3972 N84-35151
Multifrequency observations of active galactic nuclei
24 p3972 N84-35152
The 22 GHz continuum and spectral index maps of the galactic center region
[INPE-3275-PRE/599] 24 p3987 N84-35239
Spatial fluctuations in the diffuse cosmic X-ray background
[NASA-TM-85029] 24 p3994 N84-35281
GALACTIC RADIATION
NT GALACTIC RADIO WAVES
Observations of galactic center for annihilation line at 0.511 MeV
[INPE-2907-PRE/421] 02 p0305 N84-12000
Photon damping in cosmic-ray acceleration in active galactic nuclei
[DE83-011320] 03 p0476 N84-13133
Studies of highly variable galactic X-ray sources with HEAO-1
[NASA-CR-170941] 06 p0941 N84-18112
Limits on diffuse X-ray emission from M101
[NASA-CR-170978] 06 p1246 N84-18147
A study of the diffuse galactic gamma radiation
[NASA-TM-86055] 06 p1247 N84-18151
Galactic gamma radiation and the interstellar medium
[MPE-179] 10 p1597 N84-20469
Rocket observations of the diffuse ultraviolet background
10 p1598 N84-20470
An abrasion-ablation model description of galactic heavy-ion fragmentation
[NASA-TP-2305] 12 p1903 N84-22396
X-ray spectra and time variability of active galactic nuclei
[NASA-TM-86071] 12 p1922 N84-22519
Limits on soft X-ray flux from distant emission regions
[NASA-CR-173591] 16 p2582 N84-26558
Identification of gamma-ray lines observed from SS433
[DE84-013829] 22 p3681 N84-33335
Far UV excess and gas content of SO galaxies
24 p3971 N84-35144
The Seyfert 1 galaxy NGC 4593 (3). Very rapid variations of its far UV spectrum and their implications
24 p3971 N84-35147
MCG-2-58-22 = Mkn 926. A high luminosity Seyfert galaxy with two distinct broad line components
24 p3972 N84-35150
Cosmic Rays, no. 23. Results of researches on the international geophysics projects
24 p3993 N84-35267
The density distribution of galactic cosmic rays allowing for the generalized tensor of anisotropic diffusion and for the real distribution of solar activity
24 p3994 N84-35275
Large scale solar modulation of 500 MeV/N galactic cosmic rays seen from 1-30 AU
[NASA-CR-173993] 24 p3995 N84-35283
GALACTIC RADIO WAVES
A very large array 1411 MHz radio survey: Properties of complete samples of radio and optically selected QSO candidates in a high galactic-latitude field
04 p0618 N84-14076
The ISPM unified radio and plasma wave experiment
09 p1262 N84-18237
Microwave and theoretical studies for Cosmic Background Explorer satellite
[NASA-CR-175248] 18 p2954 N84-28721
GALACTIC ROTATION
Belt of life in the galaxy
[PR-78I] 08 p1243 N84-18127
Orbital eccentricity in a logarithmic potential
09 p1414 N84-19249
Seyfert galaxy narrow-line regions: A spectroscopic investigation
17 p2774 N84-27612
GALACTIC STRUCTURE
Simulations of galaxy mergers
03 p0464 N84-13054
Infrared measurements of AFGL (Air Force Geophysics Laboratory) sources
[AD-A133553] 06 p0938 N84-16098
Royal Observatory, Edinburgh: Research and Facilities 1983
[ISBN-0-902553-27-5] 10 p1594 N84-20446
Normal galaxies
10 p1594 N84-20449
The life cycle of stars
10 p1594 N84-20450
Molecular clouds and galactic spiral structure
[NASA-TP-2288] 10 p1595 N84-20457
Research in extragalactic astrophysics
[NASA-CR-173608] 16 p2577 N84-26536
Near-infrared surface photometry of barred spiral galaxies
17 p2775 N84-27618
Dynamical studies of clusters of galaxies
17 p2775 N84-27619
High resolution surface photometry of elliptical galaxies
17 p2776 N84-27625
Submillimeter wavelength survey of the galactic plane from l = -5 deg to l = +62 deg: Structure and energetics of the inner disk
[NASA-TM-86077] 20 p3319 N84-31069
Galactic cycles and their relationship to life on Earth
[DE84-011737] 21 p3525 N84-32329
GALAXIES
NT BARRED GALAXIES
NT DISK GALAXIES
NT ELLIPTICAL GALAXIES
NT GALACTIC CLUSTERS
NT MAGELLANIC CLOUDS
NT MILKY WAY GALAXY
NT RADIO GALAXIES
NT SEYFERT GALAXIES
NT SPIRAL GALAXIES
NT VIRGO GALACTIC CLUSTER
The behavior of cold gas in spheroidal galactic potentials
02 p0306 N84-12010
X-ray and optical studies of extragalactic X-ray emitters
02 p0308 N84-12024
Spherical simulations of large scale structure in the universe
03 p0463 N84-13052
Faint galaxies in the Coma cluster: Luminosity function and spatial distribution
03 p0464 N84-13053
An X-ray and optical survey of s-type Markarian galaxies
05 p0762 N84-14996
The structure and evolution of interacting binary galaxies
05 p0763 N84-15004
The revised AFGL (Air Force Geophysics Laboratory) Infrared Sky Survey Catalog
[AD-A134007] 05 p0763 N84-15005
Automatic measurement of celestial objects: Stars, star clusters, galaxies, supernovae, and quasars
07 p1088 N84-17078
Turbulence and mass motion in galactic molecular clouds
08 p1244 N84-18129
Milgrom's revision of cosmic dynamics: Amending Newton's laws or Keplers?
[NASA-TM-86049] 08 p1244 N84-18132
A classification algorithm for star-galaxy counts
09 p1409 N84-19207
Application of maximum likelihood and Monte Carlo methods to local studies of stellar velocity fields
09 p1409 N84-19211
Orbital eccentricity in a logarithmic potential
09 p1414 N84-19249
Documentation for the machine-readable version of a table of Redshifts for Abell clusters (Sarazin, Rood and Struble 1982)
[NASA-TM-85571] 13 p2070 N84-23417
Activities report of the Institute of Astronomy
13 p2071 N84-23422
Dynamics and evolution of cD galaxies
13 p2072 N84-23425
Quenched Carbonaceous Composite (QCC): A likely candidate for interstellar grains
16 p2571 N84-26501
Observational and theoretical studies of rich clusters with multiple subcondensations
[NASA-CR-173618] 16 p2575 N84-26528
Research in extragalactic astrophysics
[NASA-CR-173606] 16 p2577 N84-26536
Tidal effects and globular clusters
16 p2578 N84-26542
Studies of X-ray clusters of galaxies/intergalactic plasmas
[NASA-CR-173825] 20 p3319 N84-31068
HII regions in the outer galaxy
23 p3838 N84-34345
Search for emission lines in the gaseous halo of edge-on galaxies
[NASA-CR-173968] 23 p3838 N84-34349
GALAXY AIRCRAFT
U C-5 AIRCRAFT
GALERKIN METHOD
Ultrasound tomography by Galerkin or moment methods
[AD-A131408] 02 p0266 N84-11747
Adaptive finite element methods for parabolic partial differential equations
[NASA-CR-174490] 03 p0417 N84-12727
Splines and the Galerkin method for solving the integral equations of scattering theory
[CSIR-TWISK-267] 04 p0586 N84-13873
A Numerov-Galerkin technique applied to a finite element shallow-water equations model with enforced conservation of integral invariants and selective lumping
[CSIR-TWISK-276] 04 p0587 N84-13878
A galerkin-finite element technique for small-scale atmospheric flows and transport over general terrain
[AD-A132735] 05 p0736 N84-14832

On the convergence of Galerkin approximation schemes for second-order hyperbolic equations in energy and negative norms
[CSIR-TWISK-280] 07 p1059 N84-16867
Investigation of the numerical method of moments for digital computer determination of Green's functions
[AD-A138374] 12 p1894 N84-22339
Galerkin's method and stabilization method for variable type equations
[PREPRINT-789] 12 p1895 N84-22348
Nonlinear analysis of rectangular glass plates by Galerkin method
[PB84-159849] 15 p2302 N84-24819
Analysis of transmission lines on semiconductor substrate
[AD-A140711] 17 p2663 N84-26987
Estimation of coefficients and boundary parameters in hyperbolic systems
[NASA-CR-172389] 19 p3082 N84-29562
Studies of Chebyshev spectral methods and multigrid methods
[AD-A142014] 20 p3245 N84-30596
Legendre-tau approximation for functional differential equations. Part 2: The linear quadratic optimal control problem
[NASA-CR-172397] 20 p3280 N84-30818

GALILEAN SATELLITES
NT CALLISTO
NT EUROPA
NT GANYMEDE
NT IO
Galilean satellite geomorphology
[NASA-CR-174574] 03 p0464 N84-13057
Theoretical aspects of photoclinometric terrain profiling on the Galilean satellites 13 p2074 N84-23441
Galilean satellite multispectral data base production 13 p2087 N84-23521
Multi-image photometric solutions for the Galilean satellites 13 p2087 N84-23522
The Galilean Satellite Geological Mapping Program, 1983 13 p2090 N84-23541
The Motion of Planets and Natural and Artificial Satellites, volume 2 19 p3117 N84-29606
A numerical averaging procedure for the Galilean Satellites system 19 p3118 N84-29616
New ephemerides for the Galilean Satellites of Jupiter calculated from Sampson-Lieske theory 19 p3119 N84-29625
Galilean satellites: Observations, ephemerides and theories 19 p3120 N84-29629
Orbital evolution of the Galilean satellites: The conservative model 19 p3120 N84-29630
Analytical theory of the motion of the Galilean satellites of Jupiter: The first approximation 19 p3120 N84-29634
Observations of mutual phenomena of the Galilean satellites of Jupiter in 1979-1980 19 p3121 N84-29635

GALILEO MISSION
U GALILEO PROJECT

GALILEO PROJECT
JPL closeup
[NASA-CR-175324] 06 p0793 N84-15168
The physics of a single-event upset in integrated circuits: A review and critique of analytical models for charge collection
[NASA-CR-173471] 12 p1912 N84-22459
A high energy stage for the National Space Transporation System
[NASA-TM-83795] 22 p3540 N84-32411

GALILEO SPACECRAFT
Attitude dynamics of the Galileo spacecraft 21 p3352 N84-31282

GALLIUM
A model of the performance characteristics of silicon-gallium infrared detectors for low background applications
[AD-A143932] 23 p3825 N84-34256

GALLIUM ALLOYS
EXAFS studies of the metallic glass La80Ga20
[DE84-002022] 06 p0611 N84-15278
Superfine wire made from new alloy 12 p1787 N84-21657
Preparation of high purity Ga(X)In(1-x) by the VPE-hydride method with a gallium-indium alloy source
[AD-A143275] 22 p3663 N84-33218
Superconducting and semiconducting properties of electron-beam evaporated materials
[DE84-013470] 23 p3830 N84-34296

GALLIUM ARSENIDE LASERS
Long wavelength InGaAsP/InP lasers and optoelectronic integration 06 p1163 N84-17573
GaAs gigabit monolithic optoelectronic tranamitter
[AD-A136894] 10 p1589 N84-20413
Analog fiber optics: Pragmatic considerations beyond the textbook
[AD-A137528] 12 p1908 N84-22430
Near millimeter wave action in n-GaAs
[AD-A138602] 13 p2042 N84-23252
Bistable operation of two semiconductor lasers in an external cavity: Rate-equation analysis 14 p2233 N84-24400

GALLIUM ARSENIDES
NT ALUMINUM GALLIUM ARSENIDES
NT SUPERLATTICES
High efficiency, low cost thin GaAs solar cells
[NASA-CR-168265] 01 p0102 N84-10662
Study of deep-level defects and transport properties vs. growth parameters and annealing conditions in III-IV compound semiconductors
[AD-A130776] 01 p0153 N84-11008
A 20-GHz IMPATT transmitter
[NASA-CR-168076] 02 p0212 N84-11385
A 20-GHz IMPATT diode development
[S-3057] 02 p0212 N84-11387
Reliability analysis of the gradual degradation of semiconductor devices
[AD-A131375] 02 p0213 N84-11395
Laser chemical etching of vias in GaAs
[AD-A131288] 02 p0226 N84-11479
Photoluminescent properties of n-GaAs electrodes: Applications of the dead-layer model to photoelectrochemical cells
[AD-A131301] 02 p0298 N84-11958
Thermal property measurement techniques and some results for CdTe
[AD-A131455] 02 p0299 N84-11959
Surface and interfacial properties of Ga(0.47) In(0.53) As alloys
[AD-A131925] 03 p0451 N84-12970
The study of thin films on semi-insulating gallium arsenide by ellipsometry
[AD-A131844] 03 p0452 N84-12972
Growth and characterization of InP and InGaAs films using the hydride VPE technique
[AD-A131841] 03 p0452 N84-12973
Microwave monolithic integrated circuit development for future spaceborne phased array antennas
[NASA-TM-83518] 04 p0517 N84-13399
Computer-aided synthesis and design of monolithic microwave GaAs MESFET amplifiers
[AD-A132474] 04 p0525 N84-13452
Low-power radiation-hard GaAs RAM
[AD-A132325] 04 p0526 N84-13457
Low-noise gallium-arsenide field-effect transistor preamplifiers for stochastic beam-cooling systems
[DE83-017535] 04 p0528 N84-13475
A simple model of space radiation damage in GaAs solar cells
[NASA-TP-2242] 04 p0603 N84-13978
X-ray and backscattering analysis of ion implantation phenomena in GaAs and related compounds
[AD-A132429] 04 p0612 N84-14038
Statistical simulation of GaAs MESFETS
[AD-A133923] 05 p0674 N84-14428
Dielectric resonators for use in microwave and millimeter-wave GaAs circuits
[AD-A132881] 05 p0675 N84-14440
Ion channeling analysis of GaAs/sub x/P/sub 1-x/GaP strained-layer superlattices
[DE84-002536] 05 p0755 N84-14952
Control of impurities in the epitaxial growth of high quality GaAs
[AD-A133187] 06 p0922 N84-15996
Organometallic epitaxy for GaAs/AlGaAs microwave transistors and integrated circuits
[AD-A133569] 06 p0923 N84-16001
An In0 2Ga0 8As/GaAs, modulation-doped, strained-layer superlattice field-effect transistor
[DE84-000136] 06 p0924 N84-16006
30/20 GHz spacecraft GaAs FET solid state transmitter for trunking and customer-premise-service application
[NASA-CR-168276] 07 p0997 N84-16463
3-5 semiconductor lasers and detectors 07 p1009 N84-16541
Crystal growth of device quality GaAs in space
[NASA-CR-173148] 07 p1079 N84-17013
LEC GaAs for integrated circuit applications
[NASA-CR-173267] 07 p1079 N84-17014
Photoluminescence excitation of the 1.441-eV cation antisite emission in p-type GaAs
[AD-A134332] 07 p1080 N84-17021
Species-specific densities of states of ga and as in the chemisorption of H2O on GaAs(110)
[AD-A134344] 07 p1080 N84-17022
Species-specific densities of states of ga and as in the chemisorption of oxygen on GaAs(110)
[AD-A134416] 07 p1080 N84-17024
GaAs FET logic at low temperatures
[AD-A135007] 08 p1150 N84-17483
Advanced on-board signal processor GaAs memory
[AD-A135465] 08 p1210 N84-17890
InGaPAs by metalorganic chemical vapor deposition
[AD-A135281] 08 p1234 N84-18069
Thermal conductivity of ternary and quaternary III-V compounds
[AD-A135336] 08 p1235 N84-18070
Electron ballistic effects in III-V semiconductors
[AD-A135353] 08 p1235 N84-18072
Development of a planar heterojunction bipolar transistor for very high speed logic
[AD-A136341] 09 p1306 N84-18539
Wideband monolithic microwave amplifier study
[AD-A136424] 09 p1318 N84-18608
Ohmic contacts, irradiation effects, and thin film growth of GaAs and Al sub 1-x Ga sub x As
[NASA-CR-173257] 09 p1393 N84-19096
Ohmic versus rectifying contacts of Au to n-GaAs by ion sputtering 09 p1393 N84-19097
Magnetron sputtered gold contacts on n-GaAs 09 p1393 N84-19098
Effect of ion sputtering on the interface chemistry and electrical properties of Au/n-GaAs (100) Schottky contacts 09 p1393 N84-19099
Effect of ion sputtering on interface chemistry and electrical properties of an GaAs (100) Schottky contacts 09 p1393 N84-19100
A comparative thermodynamic analysis of impurity incorporation in vapor phase epitaxial InP and GaAs
[AD-A135739] 09 p1395 N84-19113
Ka-band Ga-As FET noise receiver/device development
[NASA-CR-175176] 10 p1484 N84-19705
Cryogenically cooled broad-band GaAs field-effect transistor preamplifier
[DE84-004166] 10 p1487 N84-19722
Material growth and characterization for solid state devices
[NASA-CR-173265] 10 p1587 N84-20401
The effects of substrate surface treatments on the defect incorporation in hydride VPE grown InGaAs films
[AD-A137488] 10 p1588 N84-20408
Tunable far infrared semiconductor sources
[AD-A137777] 11 p1647 N84-20767
Image dissector camera system study
[NASA-CR-171759] 11 p1656 N84-20806
Studies of 3-5 compound semiconductors for optical and microwave applications
[AD-A137849] 11 p1744 N84-21381
Materials and cells for high-efficiency solar-to-electric conversion
[DE83-011961] 12 p1843 N84-22015
Electrical, luminescence and SIMS (Secondary ion mass spectroscopy) characterization of carbon implanted vapor phase epitaxial gallium arsenide
[AD-A138094] 12 p1913 N84-22464
GaAs/GaAlAs bipolar heterojunction gate array
[AD-A138203] 12 p1913 N84-22466
Theoretical and experimental study of solid phase miscibility gaps in 3/4 quaternary alloys
[DE84-004391] 12 p1915 N84-22478
Low-cost GaAs solar cell development
[AD-A138938] 13 p2047 N84-23280
Production oriented 3-5 epitaxy
[BMFT-FB-T-83-286] 13 p2048 N84-23290
Advances in GaAs bistable optical devices 14 p2233 N84-24394
Room temperature optical nonlinearities in GaAs multiple quantum wells 14 p2235 N84-24408
Optical bistability in semiconductors 14 p2237 N84-24428
Ion implanted GaAs IC. Process technology
[AD-A139348] 14 p2242 N84-24461
Micro-reactions of metal contacts on various types of GaAs surfaces
[AD-A139412] 14 p2242 N84-24464
Impurity and defect interactions in GaAs
[AD-A139592] 14 p2243 N84-24465
Design considerations for a monolithic, GaAs, dual-mode, QPSK/QASK, high-throughput rate transceiver
[NASA-CR-173560] 15 p2327 N84-24974
LSI/VLSI (Large Scale Integration/Very Large Scale Integration) ion implanted GaAs (Gallium Arsenide) IC processing
[AD-A139676] 15 p2328 N84-24979
LSI/VLSI (Large Scale Integration/Very Large Scale Integration) ion implanted GaAs (Gallium Arsenide) IC processing. Appendix A: Feasibility analysis of Gallium-Arsenide mask programmable functions and logic arrays for high performance communications systems
[AD-A139677] 15 p2328 N84-24980

LSI/VLSI (Large Scale Integration/Very Large Scale Integration) ion implanted GaAs (Gallium Arsenide) IC processing. Appendix B: Two-dimensional modeling of GaAs MESFET devices for integrated high-speed logic circuits
[AD-A139678] 15 p2328 N84-24981
Low power radiation hard GaAs RAM
[AD-A139930] 15 p2329 N84-24986
Development of mechanically-stacked multijunction solar cell for concentrator applications
[DE84-006355] 15 p2363 N84-25177
Undoped buffer layer development
[AD-A139758] 15 p2413 N84-25484
Microwave, semiconductor research - materials, devices and circuits
[AD-A140052] 15 p2413 N84-25489
Electrodynamic analysis of active wave-guide slot line based on GaAs 17 p2631 N84-26830
Variation of carrier concentration caused by band structure reconstruction in tellurium and tin-doped Al(x)Ga(1-x)As solid solutions 17 p2636 N84-26861
The 1/f noise in conditions of high geometrical magnetoresistances 17 p2636 N84-26862
Persistant relaxation of excess charge carriers in epitaxial pure n-GaAs 18 p2824 N84-27931
Effect of electric field on build-up and annealing of E5-centers in GaAs 18 p2825 N84-27934
Injection currents in GaAs triple crystals
18 p2825 N84-27937
Role of charged state in build-up and annealing of deep centers in GaAs irradiated by protons
18 p2825 N84-27938
Crystal growth of device quality GaAs in space
[NASA-CR-173749] 18 p2935 N84-28613
Transient response of GaAs microwave power FET to X-ray pulses
[DE84-008816] 19 p3019 N84-29139
Semiconductors investigated by time resolved Raman absorption and photoluminescence spectroscopy using femtosecond and picosecond laser techniques
[AD-A141381] 19 p3029 N84-29209
Recent advances in LPE GaAs-based solar cells
19 p3044 N84-29310
Optimal design of GaAs-based concentrator space solar cells for 100 AMO, 80 deg C operation
19 p3044 N84-29312
Radiation testing of GaAs on CRRES and LIPS experiment 19 p3044 N84-29314
Model of solar cell proton damage
19 p3045 N84-29316
Piecewise simulaton proton test of gallium arsenide and thin silicon solar cells 19 p3045 N84-29317
On-orbit performance of LIPS gallium arsenide solar cell experiment 19 p3045 N84-29319
Defect studies in one MeV electron irradiated GaAs and in Al/sub x Ga/sub I-x As P-N junction solar cells
19 p3045 N84-29321
Defect interactions in GaAs single crystals
19 p3046 N84-29323
Panel fabrication utilizing GaAs solar cells
19 p3048 N84-29337
Improved techniques of parallel gap welding and monitoring 19 p3048 N84-29341
High-efficiency Conventional Cells Workshop
19 p3049 N84-29345
High resolution measurements of impurity-induced localized vibrational modes in semiconductors
[AD-A141577] 19 p3110 N84-29782
New phase transition in Si and GaAs exposed to picosecond laser pulses 20 p3286 N84-30866
Diffusion and electrical properties of sulfur implanted in gallium arsenide
[AD-A142405] 20 p3308 N84-31012
Neutron damage effects in AlGaAs/GaAs solar cells
[DE84-009448] 21 p3435 N84-31791
Irradiation of optimized, MBE grown, AlGaAs radiation hardened photodiode
[DE84-008034] 21 p3504 N84-32208
The friction behavior of semiconductors Si and GaAs in contact with pure metals
[NASA-TM-83779] 22 p3558 N84-32531
High-speed thyristors on weakly doped GaAs
22 p3568 N84-32600
Schottky barrier and homojunction gallium arsenide solar cells 22 p3615 N84-32907
Preparation of high purity Ga(X)In(1-x) by the VPE-hydride method with a gallium-indium alloy source
[AD-A143275] 22 p3663 N84-33218
New gallium precursors for the formation of high purity gallium arsenide by metal organic vapor phase deposition
[AD-A143361] 22 p3663 N84-33219
Quantum structure of adsorbates on semiconductor surfaces
[AD-A143465] 22 p3663 N84-33223
Impurity and defect characterization in epitaxial GaAs InP and the ternary and quaternary compound semiconductors
[AD-A143551] 22 p3664 N84-33225
Quantum transport in low dimensional disordered systems 22 p3682 N84-33347
Gallium arsenide field-effect transistor magnetic field studies
[AD-A144058] 23 p3742 N84-33721
Characterization of infrared optical properties of transparent materials
[AD-A143988] 23 p3825 N84-34257
Compound semiconductor characterization
[AD-A143601] 23 p3830 N84-34292
Process for forming pure silver ohmic contacts to N- and P-type gallium arsenide materials
[DE84-014515] 23 p3831 N84-34296
West Europe report: Science and technology, no. 157
[JPRS-84434] 24 p3892 N84-34645
Swedish firm first in Scandinavia to master GaAs technology 24 p3892 N84-34646
Radiation effects in silicon and gallium arsenide solar cells using isotropic and normally incident radiation
[NASA-CR-174007] 24 p3916 N84-34793
San Marco D/L solar array system design and performance
[NASA-TM-86125] 24 p3916 N84-34795
The research and fabrication of electronic materials and the establishment of characterization center of electronic materials 24 p3958 N84-35063
Electronic properties of grain boundaries in GaAs: A study of oriented bicrystals prepared by epitaxial lateral overgrowth
[AD-A144358] 24 p3967 N84-35118
Elementary excitations and quasi-two-dimensional behaviour in a GaAs field effect transistor
[DE84-701190] 24 p3967 N84-35122

GALLIUM COMPOUNDS
NT ALUMINUM GALLIUM ARSENIDES
NT GALLIUM ARSENIDES
NT GALLIUM NITRIDES
NT GALLIUM PHOSPHIDES
New materials for infrared transmitting electrooptic filters
[AD-A139272] 14 p2224 N84-24349
Improvements of properties and quality of LED displays
[BMFT-FB-T-84-043] 19 p3019 N84-29140
New gallium precursors for the formation of high purity gallium arsenide by metal organic vapor phase deposition
[AD-A143361] 22 p3663 N84-33219

GALLIUM NITRIDES
Evaluation of gallium nitride for active microwave devices
[AD-A132988] 05 p0754 N84-14947

GALLIUM PHOSPHIDES
Ion channeling analysis of GaAs/sub x/P/sub 1-x/GaP strained-layer superlattices
[DE84-002536] 05 p0755 N84-14952
InGaPAs by metalorganic chemical vapor deposition
[AD-A135261] 06 p1234 N84-18069
Production oriented 3-5 epitaxy
[BMFT-FB-T-83-286] 13 p2048 N84-23290

GALVANIC CELLS
U ELECTROLYTIC CELLS

GALVANIZING
U ZINC COATINGS

GAME THEORY
A solution technique for complex matrix games
[ARL-SYS-NOTE-83] 04 p0592 N84-13910
Improved dynamic models for air combat analysis
[TAE-483] 06 p0905 N84-15876
A minimax theorem for antijamming group codes
[DFVLR-FB-83-30] 06 p0906 N84-15879
The automatic transmission optimal control problem
[CSIR-TWISK-286] 07 p1057 N84-16844
Dynamics and control of forward swept wing aircraft
[NASA-CR-175369] 08 p1103 N84-17172
Search algorithms and their implementation
[AD-A135154] 06 p1219 N84-17953
A stopping rule for a multi-person cooperative game
[TR-87] 08 p1222 N84-17981
Search with limited resources
[AD-A136122] 09 p1384 N84-19039
Near-optimal finite solutions to the 3 and 4 step discrete evasion games
[AD-A136811] 10 p1574 N84-20314
The numerical solution of three stochastic differential games
[CSIR-TWISK-292] 11 p1718 N84-21205
Differential games, optimal control and directional derivatives of viscosity solutions of Bellman's and Isaacs' equations
[AD-A137939] 11 p1718 N84-21209
A formulation and analysis of combat games
[NASA-TM-85927] 13 p1935 N84-22585
Spread spectrum communication in jamming
13 p1976 N84-22827
Lanchester's equations and game theory
[AD-P002877] 13 p1978 N84-22838
Informational aspects of a class of subjective games of incomplete information
[AD-P002910] 13 p1981 N84-22862
Dynamic, hierarchical decision problems
[AD-P002912] 13 p1981 N84-22863
Risk: The long and the short
[AD-A140580] 17 p2746 N84-27436
Rand's experience in applying artificial intelligence techniques to strategic-level military-political war gaming
[P-6977] 22 p3649 N84-33137

GAMETOCYTES
Effects of simulated weightlessness on mammalian development. Part 1: Development of clinostat for mammalian tissue culture and use in studies on meiotic maturation of mouse oocytes 09 p1357 N84-18668

GAMMA FUNCTION
A computer subroutine for evaluating polygamma functions for complex arguments
[AD-A131936] 03 p0420 N84-12744
Statistical modeling of space shuttle environmental data
[NASA-CR-170940] 10 p1573 N84-20304
A note on the ratio of positively correlated gamma variates 10 p1573 N84-20305
A method for determining if unequal shape parameters are necessary in a bivariate gamma distribution
10 p1573 N84-20306
A differential equations approach to the modal location for a family of bivariate gamma distributions
10 p1573 N84-20307
Analysis of wind gust data 10 p1573 N84-20308

GAMMA RADIATION
U GAMMA RAYS

GAMMA RAY ASTRONOMY
Cross sections relevant to gamma-ray astronomy: Alpha-particle-induced reactions
[DE83-015533] 03 p0461 N84-13038
Medium energy gamma rays from the galactic center region 04 p0622 N84-14100
PULSAR: A balloon-borne experiment to detect variable low energy gamma-ray
[INPE-2950-PRE/433] 07 p1093 N84-17106
Goddard Space Flight Center contributions to the University of California, Santa Cruz Summer Workshop on High Energy Transients
[NASA-TM-86050] 09 p1406 N84-19186
Gamma ray bursts: A 1983 overview
09 p1406 N84-19188
Frequency of fast, narrow gamma-ray bursts and burst classification 09 p1407 N84-19190
Implications of the three GRB optical flashes
09 p1407 N84-19192
Nuclear processes in the jets of SS433
[NASA-TM-86109] 16 p2582 N84-26560

GAMMA RAY BURSTS
Characteristics of gamma-ray line flares
[NASA-CR-174606] 04 p0621 N84-14098
Physics of the synchrotron model of cosmic gamma-ray bursts
[DE84-000917] 04 p0622 N84-14104
Inverse comptonization vs. thermal synchrotron
[DE84-001039] 04 p0622 N84-14105
Theory of optical flashes
[DE84-001450] 04 p0622 N84-14106
The 3-10 keV and 0.1- to 2-MeV observations of 4 gamma-ray bursts
[DE84-001334] 05 p0766 N84-15022
Log N-log S in inconclusive
[NASA-CR-173153] 07 p1093 N84-17111
Gamma-burst emission from neutron-star accretion
[NASA-TM-85436] 07 p1094 N84-17112
Joint timing analysis of A0535 + 26 at 1980 outburst
[DE84-001320] 07 p1094 N84-17113
Ten years of Vela X-ray observations
[DE84-001302] 07 p1094 N84-17114
The ISPM solar-flare X-ray and cosmic gamma-ray burst experiment 09 p1262 N84-18238
Goddard Space Flight Center contributions to the University of California, Santa Cruz Summer Workshop on High Energy Transients
[NASA-TM-86050] 09 p1406 N84-19186
Gamma ray bursts: A 1983 overview
09 p1406 N84-19188
The spectral properties of gamma-ray bursts: A review of recent development 09 p1406 N84-19189
Frequency of fast, narrow gamma-ray bursts and burst classification 09 p1407 N84-19190
Implications of the three GRB optical flashes
09 p1407 N84-19192

The rapidly moving telescope: An instrument for the precise study of optical transients
09 p1407 N84-19193
The effect of a low-altitude nuclear burst on millimeter wave propagation
15 p2323 N84-24947
Nuclear processes in the jets of SS433
[NASA-TM-86109] 16 p2582 N84-26560
Emission model of gamma-ray bursts
[NASA-CR-173629] 17 p2781 N84-27656
Two probable optical flashes from gamma-ray bursters
[NASA-TM-86126] 21 p3526 N84-32337
A study of the temporal and spectral characteristics of gamma ray bursts
22 p3680 N84-33331
Three precise gamma-ray burst source locations
[NASA-TM-86132] 22 p3680 N84-33332
High energy transients
[NASA-CR-173944] 23 p3838 N84-34347

GAMMA RAY OBSERVATORY
Department of Housing and Urban Development Appropriations Bill, 1984
[H-REPT-98-803] 14 p2249 N84-24508
National Aeronautics and Space Administration
16 p2568 N84-26477
Concept and design studies for the exploration of high energy gamma ray astronomy on the Gamma Ray Observatory
23 p3838 N84-34346

GAMMA RAY SPECTRA
Monte Carlo calculations of neutron and gamma-ray energy spectra for fusion-reactor shield design: Comparison with experiment
[DE83-016932] 03 p0449 N84-12956
Methods for deconvoluting and interpreting complex gamma and X-ray spectral regions
[DE83-013585] 03 p0454 N84-12991
Giant dipole resonances built on excited states
[DE84-001549] 06 p0916 N84-15954
Gamma-burst emission from neutron-star accretion
[NASA-TM-85436] 07 p1094 N84-17112
High resolution X- and gamma-ray spectroscopy of cosmic X-ray sources
[NASA-CR-175366] 08 p1246 N84-18148
The spectral properties of gamma-ray bursts: A review of recent development
09 p1406 N84-19189
Frequency of fast, narrow gamma-ray bursts and burst classification
09 p1407 N84-19190
Continuous energy gamma-ray spectrometry
[DE84-006349] 14 p2123 N84-23726
Program PREGA pivotal regression analysis of gamma-ray spectra from NaI(T1) detectors for the ND6620 computer
[AD-A141539] 19 p3077 N84-29520
Recent re-measurement of neutron and gamma-ray spectra 1060 meters from the APRD (Army Pulse Radiation Division) critical facility
[AD-A141791] 19 p3124 N84-29846
Study of proton and neutron activation of metal samples in low Earth orbit
[NASA-CR-171113] 21 p3430 N84-31763
Identification of gamma-ray lines observed from SS433
[DE84-013829] 22 p3681 N84-33335
Study of total gamma spectra correlation for extending identification range over photopeak analysis
[AD-A144637] 24 p3962 N84-35090

GAMMA RAY SPECTROMETERS
Heavy-ion reaction mechanisms studied with the spin spectrometer
[DE83-015716] 01 p0144 N84-10950
Development of a method and apparatus for quantitative assessment of the iron content of rocks and ores by means of data obtained from borehole radiometry
[BLL-M-28724-(5828.4)] 02 p0246 N84-11613
Development of a segmented n-type germanium detector, and its application to astronomical gamma-ray spectroscopy
[NASA-TM-85435] 03 p0461 N84-13039
Telescope calibration for gamma spectroscopy with a new Ge(Li) diode configuration
[INPE-2885-PRE/407] 04 p0619 N84-14083
Life test performance of a Philips rhombic-drive refrigerator with bellows seals
06 p0819 N84-15341
High resolution X- and gamma-ray spectroscopy of solar flares
[NASA-CR-173150] 07 p1092 N84-17103
Shuttle flight test of an advanced gamma-ray detection system
[AD-A136681] 10 p1498 N84-19789
Shuttle flight test of an advanced gamma-ray detection system
[AD-A136157] 15 p2337 N84-25030
Application of semi-empirical Ge(Li) detector calibration technique for large volume samples
[DE83-012801] 16 p2494 N84-26004
Calibration and performance of a high-resolution gamma-spectroscopy system
[DE84-012792] 22 p3548 N84-32462
Gamma-ray spectroscopy of hypernuclei
[DE84-013142] 22 p3654 N84-33162

GAMMA RAY TELESCOPES
Telescope calibration for gamma spectroscopy with a new Ge(Li) diode configuration
[INPE-2885-PRE/407] 04 p0619 N84-14083
PULSAR: A balloon-borne experiment to detect variable low energy gamma-ray
[INPE-2950-PRE/433] 07 p1093 N84-17108
A large-area gamma-ray imaging telescope system
[NASA-CR-175435] 11 p1620 N84-20604
Concept and design studies for the exploration of high energy gamma ray astronomy on the Gamma Ray Observatory
23 p3838 N84-34346

GAMMA RAYS
NT GAMMA RAY BURSTS
Smarter radiation monitors for safeguards and security
[DE83-015259] 02 p0224 N84-11468
Migration of natural gas and reservoir formation in east lower Saxony
[BMFT-FB-T-83-153] 02 p0250 N84-11639
Calculations of radiation fields and monkey mid-head and mid-thorax responses in AFRRI-TRIGA reactor facility experiments
[DE83-015483] 02 p0264 N84-11741
Accuracy of external personnel dosimetry systems in mixed neutron and gamma radiation fields
[DE83-015712] 02 p0266 N84-11751
Multi-isotopic gamma ray assay system for alpha contaminated waste
[DE83-015254] 02 p0292 N84-11917
Real-time 3-D X-ray and gamma-ray viewer
[NASA-CASE-GSC-12640-1] 02 p0293 N84-11920
Formation of free hydrogen during radiolysis in a bed of clay
[DE83-017724] 03 p0350 N84-12275
Real-time attenuation of heated optical fibers in a nuclear reactor
[DE83-015141] 03 p0438 N84-12873
Cross sections relevant to gamma-ray astronomy: Alpha-particle-induced reactions
[DE83-015533] 03 p0461 N84-13038
New-generation low-power radiation survey instruments
[DE84-001716] 05 p0685 N84-14506
Assessment of indoor dose from gamma ray emitters and radon daughters in Milan
[CISE-2118] 07 p1073 N84-16974
Journal of Research of the National Bureau of Standards. Volume 88, Number 3, May-June 1983
[PB84-115799] 08 p1127 N84-17328
A study of the diffuse galactic gamma radiation
[NASA-TM-86055] 08 p1247 N84-18151
Goddard Space Flight Center contributions to the University of California, Santa Cruz Summer Workshop on High Energy Transients
[NASA-TM-86050] 09 p1406 N84-19186
Neutrons and gamma rays from solar flares
09 p1406 N84-19187
Plasma focus evolution in time as seen from its neutron, gamma and X ray activities
10 p1582 N84-20365
Galactic gamma radiation and the interstellar medium
[MPE-179] 10 p1597 N84-20469
A comparison of radiation damage in liner ICs from cobalt-60 gamma rays and 2.2-MeV electrons
[NASA-CR-173474] 12 p1901 N84-22380
Metastable phases of rapidly solidified Al-rich, Al-Fe alloys
[AD-A139598] 14 p2128 N84-23757
A study of the mechanics of radiation damage in fiber optical waveguides
[AD-A139590] 14 p2225 N84-24352
Shuttle flight test of an advanced gamma-ray detection system
[AD-A136157] 15 p2337 N84-25030
Mechanical behavior of ultra high molecular weight polyethylene
[PB84-175538] 16 p2473 N84-25851
Report on measurements of terrestrial radiation in the Schwandorf area and the radiological load of the river Naab
[GSF-A-6/83] 16 p2520 N84-26180
Absolute photopeak efficiency values for an intrinsic well-type Ge detector in the gamma ray region 0.1 to 3.0 MeV
[REPT-2(1984)] 18 p2900 N84-28398
Comparative effects of bremsstrahlung, gamma, and electron radiation on rat motor performance
[AD-P003250] 18 p2904 N84-28417
Action of penetrating radiation on radio parts
[AD-A142107] 19 p3007 N84-29059
Recent re-measurement of neutron and gamma-ray spectra 1060 meters from the APRD (Army Pulse Radiation Division) critical facility
[AD-A141791] 19 p3124 N84-29846
High-spin gamma-ray spectroscopy
[DE84-010716] 20 p3296 N84-30929
Calculation of high altitude electromagnetic pulses due to X and gamma photons
[SNIAS-841-422-106] 21 p3388 N84-31504
A study of the temporal and spectral characteristics of gamma ray bursts
22 p3680 N84-33331
Identification of gamma-ray lines observed from SS433
[DE84-013829] 22 p3681 N84-33335
Research in particles and fields — cosmic rays, gamma rays, and cosmic plasma
[NASA-CR-173928] 23 p3845 N84-34392

GANGLIA
NT NERVES
NT NEURONS

GANYMEDE
Ice-covered volcanic water flows on Ganymede
13 p2073 N84-23432
The Laplacian resonance and tidal dissipation
13 p2073 N84-23434
Topography on Ganymede derived from photoclinometry
13 p2074 N84-23442
Morphology of fresh craters on Ganymede and the origin of pedestal craters
13 p2078 N84-23466
Relationships and tectonics of the Jg-7 quadrangle of Ganymede
13 p2091 N84-23542
Geologic investigations of outer planets satellites
[NASA-CR-173497] 13 p2091 N84-23544
Spectral analysis of groove spacing on Ganymede
15 p2426 N84-25570
Preliminary results of albedo correlation between Europa and Ganymede
15 p2427 N84-25581
A geographic comparison of selected large-scale planetary surface features
[NASA-TM-86147] 22 p3679 N84-33320

GAPS
NT ENERGY GAPS (SOLID STATE)
NT SPARK GAPS
Controls of intracellular communication mediated by gap junctions
02 p0264 N84-11738
Analytical prediction of aerothermal environment in a wing-elevon cove — space shuttle orbiter
[NASA-TM-85711] 03 p0370 N84-12412
Distribution of unit pressures in universal spindle joint
08 p1165 N84-17588
Theoretical and experimental study of solid phase miscibility gaps in 3/4 quaternary alloys
[DE84-004391] 12 p1915 N84-22478

GARNETS
NT YTTRIUM-IRON GARNET
The growth and measurement of single-crystal doped GGG (Gd3-xCaxGa5-xZrx012)
[AD-A131875] 03 p0452 N84-12971
A program of research on microfabrication techniques for VLSI magnetic devices
[AD-A131706] 03 p0452 N84-12978
Magneto-optic garnet and liquid crystal optical switches
12 p1905 N84-22410
Noncubic magnetic anisotropy in YSmLuCaFeGe garnet films
20 p3287 N84-30869

GARP
U GLOBAL ATMOSPHERIC RESEARCH PROGRAM

GAS ANALYSIS
NT OZONOMETRY
Diagnosis of the comma cloud of 10 April 1979, abridged report
[AD-A130649] 01 p0108 N84-10701
Analysis of an effusive sampling device for analysis of boundary layer gases
[NASA-CR-174532] 01 p0120 N84-10778
Vacuum outgassing of various materials
[DE84-001449] 04 p0495 N84-13247
Techniques for avoiding discrimination errors in the dynamic sampling of condensable vapors
[NASA-TM-85886] 07 p1007 N84-16527
A system for measuring fluxes of trace gases to and from soil and vegetation with a chamber technique
[CM-61] 07 p1028 N84-16662
The ISPM interstellar neutral-gas experiments
09 p1261 N84-18234
Vacuum outgassing of various materials
[DE84-004812] 11 p1626 N84-20644
Chemical reactions and molecular aggregation in cryogenic whole air sample matrices
[AD-A137879] 11 p1682 N84-20977
Analysis of flow dynamics through small diameter gas sampling systems
[NASA-CR-175447] 11 p1728 N84-21276
Dual adsorber-capillary column system for gas chromatographic analysis of air samples
[AD-A138305] 12 p1792 N84-21689
Computer controlled laser optoacoustic spectroscopy for trace gas analysis
13 p1955 N84-22710

Portable device for detecting and identifying hazardous vapors
[DE84-003640] 14 p2148 N84-23870
Innovative detection, separation and sampling techniques for trace analysis by gas chromatography
[AD-A140974] 18 p2811 N84-27842
GC and GC/MS (Gas Chromatography/Mass Spectrometry) analysis protocols
[AD-A141017] 18 p2811 N84-27843
Diode-laser gas analyzer for geophysical studies 18 p2859 N84-28155
A diagnostic technique for improving combustor performance 19 p2967 N84-28800
Analyzer for determining helium-4 in the part-per-billion range
[PB84-189554] 20 p3191 N84-30272
Mathematical model of electrostatic precipitation (revision 3). Volume 1: Modeling and programming
[PB84-212679] 22 p3549 N84-32469
Effect of feed gas trace components on the SRC-1 hydrogen purification unit
[DE84-012975] 22 p3562 N84-32556
Composition alteration of stratospheric air due to sampling through a flow tube: Environmental research papers
[AD-A143319] 22 p3623 N84-32959
Testing of candidate batteries for global positioning system 23 p3736 N84-33677
Hubble space telescope component qualification utilizing a residual gas analyzer 24 p3865 N84-34497

GAS BEARINGS
Forced two-phase cooling of the TPC superconducting solenoid
[DE83-017749] 04 p0613 N84-14049
A miniature tilting pad gas lubricated bearing 06 p0819 N84-15340
Dynamic behavior of spiral-groove and Rayleigh-Step self-acting face seals
[NASA-TP-2266] 07 p0953 N84-16181
Durable solid lubricant coatings for foil gas bearings to 315 deg C
[NASA-TM-83596] 10 p1485 N84-19567
Dynamic stifness of closed gas-static bearing with regulator 13 p1968 N84-22774
Improvement of dynamic characteristics of gas-static bearings 13 p1968 N84-22775
Effect of hydromechanical inertia forces on stability of cylindrical hydrodynamic bearing 13 p1971 N84-22789
Improved compliant hydrodynamic fluid journal bearing
[NASA-CASE-LEW-13670-1] 13 p1997 N84-22959
Materials research for advanced inertial instrumentation. Task 2: Gas bearing material development
[AD-A140435] 16 p2446 N84-25690
Contributions to dynamics study of air-lubricated gas bearings at high compressibility numbers 17 p2674 N84-27039

GAS CHROMATOGRAPHY
Laser chromatography (gaseous electrophoresis) of chemical agents
[AD-A130948] 01 p0087 N84-10565
Optimization of GC/MS based Tenax collection method for toxic organics
[PB83-229476] 02 p0222 N84-11455
Atmospheric-pressure argon afterglows as a detector for gas chromatography
[DE83-017695] 03 p0351 N84-12282
The organic geochemistry of deep ground waters and radionuclide-partitioning experiment: Under hydrothermal conditions
[DE83-015784] 04 p0554 N84-13651
Identification and characterization of elastomer vulcanizate materials using pyrolytic gas liquid phase chromatography
[AD-A134056] 05 p0658 N84-14325
Complete sample analysis by gas chromatography
[BLL-T8213/BG/LRS/LRST671/83] 06 p0800 N84-15212
Increased confidence in spectrum matching by use of a retention time library — compound identification in industrial effluents
[PB83-232090] 06 p0802 N84-15229
A general computer model for predicting the performance of gas sorption refrigerators 06 p0820 N84-15349
A procedure for investigating the composition of the plasma arc
[BLL-M-35454-(5828.4)] 09 p1391 N84-19083
Continuous chemical reaction chromatography
[DE84-004089] 10 p1456 N84-19509
Dual adsorber-capillary column system for gas chromatographic analysis of air samples
[AD-A138305] 12 p1792 N84-21689
Modulated voltage metastable ionization detector
[NASA-CASE-ARC-11503-1] 13 p2019 N84-23093
Protocol for the collection and analysis of volatile POHCs (Principal Organic Hazardous Constituents) using VOST (Volatile Organic Sampling Train)
[PB84-170042] 15 p2336 N84-25035
Innovative detection, separation and sampling techniques for trace analysis by gas chromatography
[AD-A140974] 18 p2811 N84-27842
GC and GC/MS (Gas Chromatography/Mass Spectrometry) analysis protocols
[AD-A141017] 18 p2811 N84-27843
Quality engineering and control
[DE84-011603] 20 p3150 N84-30001
Evaluation of sampling methods for gaseous atmospheric samples
[PB84-190735] 20 p3151 N84-30012
Gas chromatographic analysis of nitrogen
[BLL-RISLEY-TRANS-4563-(9091.9)] 22 p3545 N84-32443
Multiphoton ionization mass and photoelectron spectroscopy
[AD-A143823] 23 p3714 N84-33542
Study of outgassing and decomposition of Space Shuttle heat protection tiles, fillers and adhesive
[NASA-CR-173974] 24 p3860 N84-34465
Viking lander: Creating the science teams 24 p3991 N84-35255

GAS COMPOSITION
NT CARBON DIOXIDE CONCENTRATION
Development and demonstration of a spiral-wound thin-film composite membrane system for the economical production of oxygen-enriched air, phases 1, 2 and 3
[DE84-002918] 07 p0972 N84-16298
Combustion gas properties of various fuels of interest to gas turbine engineers
[NASA-TM-83682] 15 p2261 N84-24584
Sanitary and hygienic features of cabin environment in Salyut-7 orbital station 15 p2375 N84-25253
Possibilities of infrared spectroscopy with tunable semiconductro lasers
[ONERA-NT-1983-4] 16 p2482 N84-25782
Diode-laser gas analyzer for geophysical studies 18 p2859 N84-28155
Vapor spill pipe monitor
[DE84-011103] 20 p3190 N84-30267
Effect of protective gas composition on seam formation during laser welding 24 p3870 N84-34524

GAS COOLED REACTORS
NT HIGH TEMPERATURE GAS COOLED REACTORS
NT HIGH TEMPERATURE NUCLEAR REACTORS

GAS COOLING
Optimal design of gas adsorption refrigerators for cryogenic cooling 06 p0820 N84-15348
Food preservation with gas 11 p1640 N84-20719
Evaluation of gas-cooled pressurized phosphoric acid fuel cells for electric utility power generation
[NASA-CR-168298] 15 p2362 N84-25169

GAS DENSITY
Formaldehyde as a density probe of interstellar clouds 02 p0307 N84-12015
A review of the basic concepts of dense gas dispersion with special regard to modelling of heat transfer
[QUEL-1512/84] 16 p2487 N84-25952
The behaviour of the 3.28 micron dust feature in NGC 2024 16 p2571 N84-26498

GAS DETECTORS
Phthalocyanine derivatives specifically designed for fabrication of organic semiconductor gas sensors
[AD-A130611] 01 p0083 N84-10540
Medium- and high-pressure sonic leak pinpointing
[PB83-228361] 01 p0086 N84-10557
Optical waveguide gas sensors
[AD-A130629] 01 p0148 N84-10969
Atmospheric-pressure argon afterglows as a detector for gas chromatography
[DE83-017695] 03 p0351 N84-12282
Carbon dioxide sensor technology
[AD-A133688] 05 p0716 N84-14890
Flight tests of instrumentation for airborne carbon dioxide flux measurement
[AD-A135856] 09 p1342 N84-18767
Detection methods for atoms and radicals in the gas phase
[MPIS-1/1983] 10 p1577 N84-20334
Liquid-phase photoionization detector for liquid chromatography 13 p1955 N84-22711
Portable device for detecting and identifying hazardous vapors
[DE84-003640] 14 p2148 N84-23870
A stereospecific vapor detector
[AD-A139965] 15 p2337 N84-25028
An investigation of resonant optoacoustic cells
[PB83-251637] 18 p2929 N84-28572
Mechanism of operation and design considerations for surface acoustic wave device vapor sensors
[AD-A141537] 19 p3027 N84-29195
Analyzer for determining helium-4 in the part-per-billion range
[PB84-189554] 20 p3191 N84-30272
Quantitative determination of gaseous air pollutants by semiconducting sensors
[BMFT-FB-T-84-113] 23 p3793 N84-34058
Leak detector for spacecraft testing with high accuracy 24 p3863 N84-34486
Method and apparatus for determination of lubricant stability
[AD-D011193] 24 p3887 N84-34615

GAS DIFFUSION
U GASEOUS DIFFUSION

GAS DISCHARGE COUNTERS
U COUNTERS
U GAS DISCHARGE TUBES

GAS DISCHARGE TUBES
NT THYRATRONS
Power-loading effects in gas-discharge models
[DE83-016504] 03 p0368 N84-12393
Electron-drift velocity and ionization and attachment coefficients in gases/mixtures for diffuse-discharge opening switches
[DE83-017206] 04 p0609 N84-14017
Utilizing light focusing by gas discharge medium for stabilization of emission power of He-Ne laser at wavelength of 6401 angstroms 13 p1969 N84-22779
Cold-cathode gas-discharge modulator power tube 21 p3379 N84-31443
Transport properties and dielectric strengths of gas mixtures for use in diffuse discharge opening switches
[DE84-011444] 21 p3394 N84-31536
High-intensity discharge (HID) solid-state ballast program: Engineering development report, phase 2
[DE84-013882] 22 p3588 N84-32726

GAS DISCHARGES
Coordinated research program in pulsed power physics
[AD-A129554] 01 p0138 N84-10905
Rapid energization of electrons in a critical velocity discharge experiment
[TRITA-EPP-83-02] 02 p0297 N84-11947
Hysteresis in a low-pressure argon discharge, revision
[AD-A134387] 07 p1076 N84-16995
Nitriding with a pulsed glow discharge
[BLL-OA-TRANS-3168-(6189.3)] 08 p1128 N84-17335
Improvement of dynamic characteristics of gas-static bearings 13 p1968 N84-22775
On the plasma physics on the beam plasma discharge
[AD-A139265] 14 p2228 N84-24361
Fundamental processes in partially ionized plasmas
[AD-A140549] 16 p2558 N84-26414
Development of fine-structured components for gas discharge displays
[BMFT-FB-T-84-031] 19 p3000 N84-29015
Flat panel — displays
[BMFT-FB-T-84-048] 19 p3019 N84-29141

GAS DISSOCIATION
Magnetically enhanced hydrogen gas dissociator: A progress report 16 p2479 N84-25892

GAS DYNAMICS
NT AERODYNAMICS
NT AEROTHERMODYNAMICS
NT HYPERSONICS
NT INTERACTIONAL AERODYNAMICS
NT RAREFIED GAS DYNAMICS
NT ROTOR AERODYNAMICS
Nonexistence of a shock layer in gas dynamics with a nonconvex equation of state
[AD-A129169] 01 p0078 N84-10506
Numerical studies of the isotope distribution in a gas centrifuge using a tapered, double-parabolic axial flow
[DE83-013011] 01 p0081 N84-10526
The 21st Symposium on Engineering Aspects of Magnetohydrodynamics
[DE83-014481] 02 p0296 N84-11943
Practical computation of multidimensional thermal flows in a gas centrifuge
[DE83-005697] 03 p0372 N84-12426
The possibility of amplifying infrared radiation by high-pressure reacting gas
[AD-A131086] 03 p0440 N84-12890
Modeling of modification experiments involving neutral gas release — from space shuttles 05 p0640 N84-14209
An application of gap regenerator/expander precooled by two stage G-M refrigerator 06 p0819 N84-15337
Unconfined gas explosions — conferences
[VKI-LS-1983-02] 06 p0835 N84-15438
Unconfined vapor cloud explosions: A review of recent theories and experiments 06 p0835 N84-15439
Identification of problem areas — unconfined gas explosions 06 p0836 N84-15440

Practical approaches in accident analysis — unconfined gas explosions 06 p0836 N84-15441
Flat cloud modeling — unconfined gas explosions 06 p0836 N84-15442
Wet steam flow in L. P. turbines — low pressure (LP) 06 p0841 N84-15483
A new numerical method for the transient gas-dyanmic code EVENT [LA-9594-MS] 06 p0920 N84-15977
Spectral methods for the Euler equations: Chebyshev methods and shock-fitting [NASA-CR-172295] 08 p1095 N84-17118
Assessment of real gas effects on the prediction of the aerodynamics of high velocity Army shells [AD-A134739] 08 p1099 N84-17150
Universal single level implicit algorithm for gasdynamics [NASA-CR-166531] 08 p1216 N84-17936
Power-series solutions of the gasdynamic equations for Mach reflection of a planar shock by a wedge [AD-A135953] 09 p1315 N84-18594
Thermofluidynamics of heat pipes 10 p1443 N84-19423
Solution of the Riemann problem for a polytropic gas [REPT-22] 10 p1457 N84-19517
Normal reflection of a shock wave at a rigid wall in a dusty gas [UTIAS-274] 12 p1815 N84-21829
Gas filled dynamics for laser driven fusion reactors [DE84-005181] 12 p1910 N84-22444
Mach number and density effects in the mixing of supersonic jets 13 p1942 N84-22628
Molecular dynamics of propellant gases 13 p1949 N84-22674
Discharge of ideal gas into vacuum 13 p1970 N84-22785
More precise numerical simulation of transsonic flow through passages in turbomachines 13 p1970 N84-22786
Microcomputer numerical analysis system for gas dynamics application [NASA-CR-171005] 13 p1986 N84-22908
Loeb solutions of the Boltzmann equation [CTH-MATH-1983-82] 13 p1991 N84-22926
Thermodynamics and kinetics of the gas phase and pack aluminide coating formation on iron and steel 13 p2049 N84-23291
Formation of a shock wave in a dusty gas by a moving piston [UTIAS-275] 14 p2145 N84-23853
A finite element method for the gas dynamics equations in 2 dimensions and in conservation form [AD-A139774] 15 p2333 N84-25009
Model calculations for a CO2 mixing laser with screen nozzle [DFVLR-FB-83-41] 15 p2339 N84-25039
Hypersonic static and dynamic stability. Part 2: Inviscid prediction methods for unsteady hypersonic flow 16 p2442 N84-25664
Canonical solutions for unsteady flow fields [NASA-TM-85812] 16 p2486 N84-25947
Iterative solution of the three-dimensional nonlinear potential equation of the gas dynamcis for ultrasonic flows 16 p2541 N84-26310
Collective mode of evolution of plasma produced by optical breakdown in aerosol medium 17 p2631 N84-26828
Effect of nonhomogeneity on nonlinear stabilization of acoustic vibrations in heat emitting medium within bounded volume 17 p2646 N84-26926
Approach to equilibrium of a relativistic gas 17 p2669 N84-27018
Contributions to dynamics study of air-lubricated gas bearings at high compressibility numbers 17 p2674 N84-27039
Influence of wind on rate of gas exchange through ocean-atmosphere interface 17 p2699 N84-27190
An efficient approximate factorization implicit scheme for the equations of gasdynamics [NASA-TM-85957] 19 p3062 N84-29556
Turbulent diffusion behind vehicles: Experiments and verification of roadway models [PB84-194273] 21 p3326 N84-31101
Hypersonic flow of viscous gas on surface of blunt cone with strong blow-in in blunted region 21 p3481 N84-32063
Energy characteristics of plasma generated in air near target by radiation from CO2 laser 21 p3488 N84-32103
Time dependent wave envelope finite difference analysis of sound propagation [NASA-TM-83744] 21 p3490 N84-32118
Second- and third-order upwind difference schemes for hyperbolic conservation laws [NASA-TM-85959] 22 p3644 N84-33106
A nonstationary relaxation technique for solving the equations of gas dynamics 23 p3746 N84-33746

GAS EVACUATING
U EVACUATING (VACUUM)

GAS EVOLUTION

Comparison of measured and calculated helium production in nickel using newly evaluated neutron cross sections for (59)Ni [DE84-000565] 04 p0611 N84-14035

GAS EXCHANGE

Interaction of anti-G measures and chest wall mechanics in determining gas exchange [AD-A133740] 06 p0889 N84-15775
Influence of wind on rate of gas exchange through ocean-atmosphere interface 17 p2699 N84-27190
Modeling kinetics of aerodisperse phase in ocean surface layer 18 p2859 N84-28153
Oxygen diffusion in alpha-Al2O3 [NASA-TM-83622] 19 p2997 N84-28990
Exchange of gases and physical work capacity in natives of different geographic regions 20 p3254 N84-30656

GAS EXPANSION

The 80-micron particle acceleration in an expanding gas supplement [AD-A130991] 02 p0218 N84-11426
Two-dimensional supersonic expansion flows on walls with nonequilibrium condensation 06 p1096 N84-17125
Central burst of simultaneously rotating and gravitating body 13 p1969 N84-22783
Engineering research on positive displacement gas expanders, phase 1 [DE84-006977] 20 p3196 N84-30310

GAS EXPLOSIONS

Unconfined gas explosions — conferences [VKI-LS-1983-02] 06 p0835 N84-15438
Unconfined vapor cloud explosions: A review of recent theories and experiments 06 p0835 N84-15439
Identification of problem areas — unconfined gas explosions 06 p0836 N84-15440
Practical approaches in accident analysis — unconfined gas explosions 06 p0836 N84-15441
Flat cloud modeling — unconfined gas explosions 06 p0836 N84-15442
Estimate of blast wave properties — unconfined vapor cloud explosions (UVCE) 06 p0836 N84-15443
Vapor cloud explosion experiments 06 p0836 N84-15444
Analytical solutions for the flow field induced by a spherical flame expanding at constant velocity 06 p0836 N84-15445
Characterization of the pressure wave originating in the explosion of a gas cloud 06 p0836 N84-15446
Interaction of gas explosions with buildings 06 p0836 N84-15447

GAS FLOW

NT AIR CURRENTS
NT AIR FLOW
NT CONTINUUM FLOW
NT EQUILIBRIUM FLOW
NT FREE MOLECULAR FLOW
NT JET STREAMS (METEOROLOGY)
NT KNUDSEN FLOW
NT MERIDIONAL FLOW
NT MOLECULAR FLOW
NT NONEQUILIBRIUM FLOW
NT PIPE FLOW
NT SLIP FLOW
NT TRANSITION FLOW
NT VERTICAL AIR CURRENTS
Gas-transfer analysis. Section B: Real gas results via the vanderWaals equation of state and virial extension of its limiting Abel-Noble form [DE83-013281] 01 p0081 N84-10527
Numerical studies of the isotope distribution in a gas centrifuge using a tapered, double-parabolic axial flow [DE83-013011] 01 p0081 N84-10528
Auxiliary heat-exchanger flow-distribution test [DE83-012696] 01 p0082 N84-10535
Aerodynamics of E-beam sustained discharges in flow [AD-A130100] 01 p0141 N84-10926
An approach to experimental investigation of jet plume effects on missile aerodynamics [AD-A131336] 02 p0186 N84-11210
Closed energy cycle with MRD generator using T-layer effect [AD-A131136] 02 p0242 N84-11583
A gas-flow tracing technique applicable to rotating systems boundary layer on a rotating disk [DE83-012761] 03 p0372 N84-12425
Practical computation of multidimensional thermal flows in a gas centrifuge [DE83-005697] 03 p0372 N84-12426
Zero-dimensional model of compressible gas flow in networks of pressure vessels: Program TRIC [DE83-017121] 03 p0373 N84-12431
Jet-impact nebulization for sample introduction in inductively coupled plasma spectrometry [AD-A133152] 06 p0920 N84-15982
Development and demonstration of a spiral-wound thin-film composite membrane system for the economical production of oxygen-enriched air, phases 1, 2 and 3 [DE84-002918] 07 p0972 N84-16298
Perturbation solution for gas flow in a tapered rotor [DE84-002930] 07 p1003 N84-16507
Shock structure near a wall in pure inert gas and in binary inert gas mixtures 07 p1005 N84-16517
Air Force Academy Aeronautics Digest - Fall/Winter 1982 [AD-A135073] 08 p1099 N84-17145
Fire propagation in concurrent flows [PB84-100155] 08 p1127 N84-17326
Laser diagnostic development and measurement and modeling of turbulent flowfields of jets and wakes. Part 3: The development of a 2-channel CW Time-Resolved Laser Raman Spectroscopy (TiLaRS) system for measurements in gas flowfields [AD-A134693] 08 p1159 N84-17544
Apparatus and method for destructive removal of particles contained in flowing fluid [NASA-CASE-NPO-15426-1] 08 p1161 N84-17555
Uniaxial model for gas-loaded variable conductance heat pipe performance: The effects of vapor flow, friction, and inertia 10 p1443 N84-19424
Effects of multiple cylinders on the formation of Von Karman vortex streets [AD-A136930] 10 p1492 N84-19758
Transient gas flow along single or bundled electrical cables surrounded by a permeable medium [DE84-004791] 10 p1494 N84-19772
General path-integral successive-collision solution of the bounded dynamic multi-swarm problem [AD-A136961] 10 p1570 N84-20287
Velocity visualization in gaseous flows 11 p1610 N84-20543
A calculation of descent segment of internal ballistics in solid rocket motors [AD-A137199] 11 p1626 N84-20642
An analytical and numerical study of the interaction of rarefaction waves with area changes in ducts. Part 1: Area reductions [UTIAS-272] 11 p1651 N84-20780
Producing a cryogenic gust in an Eiffel type atmospheric wind tunnel with short gust 14 p2095 N84-23569
A review of the basic concepts of dense gas dispersion with special regard to modelling of heat transfer [QUEL-1512/84] 16 p2487 N84-25952
Grain formation in the expanding gas flow around cool luminous stars 16 p2569 N84-26489
Application of the direct simulation Monte Carlo method to mass spectrometer flow [AD-A142326] 19 p3094 N84-29647
Turbulent diffusion behind vehicles: Experiments and verification of roadway models [PB84-194273] 21 p3326 N84-31101
Flow in a tapered centrifuge [DE84-012553] 21 p3401 N84-31573
Flowing effects in gas lasers [AD-A141409] 21 p3409 N84-31620
Hypersonic flow of viscous gas on surface of blunt cone with strong blow-in in blunted region 21 p3481 N84-32063
Supersonic nonsteady flow past flat and axisymmetric pointed bodies 21 p3485 N84-32088
Micrometric cleaning of steel tubes through ultrasonic cavitation [REPT-61584] 21 p3491 N84-32125
Dual arc penning ion source gas flow experiments [DE84-011637] 21 p3495 N84-32151
GCKP84-general chemical kinetics code for gas-phase flow and batch processes including heat transfer effects [NASA-TP-2320] 22 p3546 N84-32446
Molten carbonate fuel cell performance model update [DE84-012932] 22 p3589 N84-32733
Ekman boundary conditions for numerical models of centrifuge flows [DE84-013576] 22 p3595 N84-32765
Simulation of the Kelvin-Helmholtz instability of a supersonic slip surface with the Piecewise-Parabolic Method (PPM) [DE84-013219] 22 p3595 N84-32768
Technique for measuring gas conversion factors [NASA-CASE-LAR-13220-1] 22 p3598 N84-32786
Laser utilizing a gaseous lasing medium and method for operating the same [DE84-014500] 22 p3602 N84-32819
A Gerdien condenser system for measuring stratospheric charged particle densities [AD-A143317] 22 p3623 N84-32958

Solid oxide fuel cell having compound cross flow gas patterns
[DE84-014666] 23 p3743 N84-33730
Integral manifolding structure for fuel cell core having parallel gas flow
[DE84-014664] 23 p3744 N84-33731

GAS GENERATOR ENGINES
U ENGINES
U GAS GENERATORS

GAS GENERATORS
Chemical generation and deactivation of oxygen singlet delta
[AD-A135392] 08 p1124 N84-17308
Investigation of the usefulness of the smoke generator Draeger model MK V for fire services exercises onboard ships
[PML-1983-6] 12 p1804 N84-21759
Investigation of organic oxidizers for high performance low flame temperature gas generator applications 13 p1950 N84-22676
Aging control number 4 of gas generator grains for RB 05 and RB 24
[FOA-C-20528-D1(D3)] 15 p2303 N84-24820
Aircraft fuel tank inerting system
[AD-A141883] 19 p2964 N84-28785
Singlet oxygen generator for a solar powered chemically pumped iodine laser
[NASA-CR-172364] 19 p2982 N84-28899
Performance verification tests of an uprated augmented catalytic thruster 20 p3136 N84-29911
High performance, low flame temperature nitramine propellant development 20 p3141 N84-29946
Porous catalytic metal plate degeneration bed in a gas generator
[AD-D011078] 21 p3373 N84-31407
Producer gas: Another fuel for motor transport
[DE84-901066] 21 p3375 N84-31416
Development, test and delivery of solid propellant generators for inflation of PFD's
[AD-A130477] 21 p3460 N84-31946
Modeling and control of an on-board oxygen generation system 23 p3811 N84-34164

GAS GIANT PLANETS
NT JUPITER (PLANET)
NT NEPTUNE (PLANET)
NT SATURN (PLANET)
NT URANUS (PLANET)
NT URANUS RINGS
Oscillations of a slowly rotating weakly stratified gaseous planet 05 p0765 N84-15016

GAS HEATING
Determining the coefficient of heat transfer during the filtration of a heat-carrying agent through a coil
[BLL-M-35601-(5828.4)] 19 p3020 N84-29146
The gas-heating phase in electrical breakdown
[AD-A141961] 20 p3302 N84-30967

GAS INJECTION
Gas box control system for tandem mirror experiment upgrade
[DE84-003245] 07 p1078 N84-17008
Review of the tandem mirror experiment-upgrade (TMX-U) machine-parameter-instrumentation system
[DE84-003243] 07 p1078 N84-17009
Hypersonic flow of viscous gas on surface of blunt cone with strong blow-in in blunted region 21 p3481 N84-32063

GAS IONIZATION
NT ATMOSPHERIC IONIZATION
NT AURORAL IONIZATION
Motion of ionized electrons under the intense electromagnetic field of the beam
[DE84-001396] 04 p0599 N84-13955
Active experiments in space — conferences
[ESA-SP-195] 05 p0634 N84-14172
Critical velocity experiments in space 05 p0639 N84-14203
The space shuttle environment as evidence of critical ionization phenomena 05 p0639 N84-14204
The role of momentum transfer to the ambient plasma in critical velocity experiments 05 p0639 N84-14205
Radical and ion molecule mechanisms in the polymerization of hydrocarbons and chloroalkanes in RF plasmas at low pressures (1.0 torr)
[NASA-TM-83602] 11 p1736 N84-21329
Neutral gas plasma interactions and critical ionization velocity phenomena
[AD-A139233] 14 p2228 N84-24360
Investigation of the characteristics of a ventilated transparent shield
[BLL-M-35562-(5828.4)] 17 p2665 N84-26996
Advanced concepts theory
[AD-A141568] 19 p3107 N84-29741
Isotopically selective counting of noble gas atoms, using resonance ionization spectroscopy
[DE84-011638] 21 p3361 N84-31320
Improving energy performance and duty time of production process CW electrical ionization CO2 lasers by using five-component lasing mixtures 21 p3481 N84-32065

GAS JETS
Rules governing the distribution of a gas jet in a liquid. Communication 2
[BLL-M-35437-(5828.4)] 08 p1154 N84-17513
Propagation of gas jet in liquid 21 p3480 N84-32057
An experimental investigation of gas jets in confined swirling air flow
[NASA-CR-3832] 23 p3694 N84-33412

GAS LASERS
NT CARBON DIOXIDE LASERS
NT CARBON MONOXIDE LASERS
NT DF LASERS
NT EXCIMER LASERS
NT HCN LASERS
NT HELIUM-NEON LASERS
NT HF LASERS
NT KRYPTON FLUORIDE LASERS
NT NITROGEN LASERS
NT TEA LASERS
NT ULTRAVIOLET LASERS
NT XENON CHLORIDE LASERS
Semiconductor processing with excimer lasers
[DE83-007509] 03 p0380 N84-12477
RF conditioned dc discharges for excitation of rare gas halide lasers
[DE83-016537] 03 p0381 N84-12479
Design of a high-brightness, low-jitter, short-pulse laser for plasma diagnostics
[DE84-000129] 04 p0541 N84-13564
Update of pulsed-laser processing technology for high-efficiency silicon solar cells
[DE84-000638] 04 p0559 N84-13684
Solar pumped laser
[NASA-CASE-LAR-12870-1] 07 p1009 N84-16542
Modeling study of a CW HF resonance transfer laser medium
[AD-A134866] 08 p1164 N84-17580
Bibliography of Soviet Laser Developments, no. 62, November - December 1982
[AD-A137854] 11 p1663 N84-20851
Bibliography of Soviet Laser Developments, no. 61, September - October 1982
[AD-A137867] 11 p1663 N84-20852
Spectrophone stabilized laser with line center offset frequency control
[NASA-CASE-NPO-15516-1] 13 p1994 N84-22943
The electron density and temperature in the photoionized background gas (N2) surrounding a laser produced plasma
[AD-A138651] 13 p2044 N84-23266
Intrinsic instabilities in homogeneously broadened lasers 14 p2235 N84-24411
Study of avalanche discharge lasers
[AD-A141203] 18 p2846 N84-28074
Efficient forward conversion in a Raman generator
[DE84-007466] 20 p3194 N84-30285
Flowing effects in gas lasers
[AD-A141409] 21 p3409 N84-31620
Waveguide CO2 laser with 7.5 W power rating 21 p3487 N84-32096
Low heat loss laser combustion chamber
[AD-D011107] 22 p3600 N84-32799
Transverse flow CW atomic iodine laser system
[AD-D011098] 22 p3601 N84-32810
Laser utilizing a gaseous lasing medium and method for operating the same
[DE84-014500] 22 p3602 N84-32819

GAS LIQUEFACTION
U CONDENSING

GAS LUBRICATED BEARINGS
U GAS BEARINGS

GAS MASERS
NT HYDROGEN MASERS

GAS METERS
New technique for calibrating hydrocarbon gas flowmeters
[NASA-TM-85792] 16 p2495 N84-26007
Automated helium gas metering system
[DE84-015083] 23 p3751 N84-33779

GAS MIXTURES
NT AIR
NT COMPRESSED AIR
NT DETONABLE GAS MIXTURES
NT EXPIRED AIR
Experimental determination of transport coefficients in CO2 laser gas mixtures
[DE83-013638] 01 p0088 N84-10572
Thermodynamic properties for natural gas binaries
[PB83-228403] 01 p0157 N84-11031
Los Alamos mini-review. Numerical calculations of hydrogen-air combustion
[DE83-016508] 02 p0191 N84-11240
Electronic measuring instruments for mixtures of fluids
[PTB-ME-40] 02 p0225 N84-11474
The relation between power and energy in the shock initiation of detonations. 1: Basic theoretical considerations and the effects of geometry
[AD-A133468] 06 p0844 N84-15505
Influence of Ar + CO2 shielding on the composition of a Cr-Mo-V weld
[BLL-CE-TRANS-8000-(9022.09)] 06 p0851 N84-15550
Gas-particle mixture flows in a spinning solid rocket motor
[ISAS-607] 07 p0965 N84-16252
Investigation of a microwave discharge in argon/helium mixtures
[LP-202] 07 p0995 N84-16451
Forced convection heat transfer to air/water vapor mixtures
[NASA-CR-3769] 07 p1000 N84-16468
Spontaneous ignition characteristics of gaseous hydrocarbon-air mixtures 11 p1613 N84-20557
Investigation of sheath phenomena in electronegative glow discharges
[AD-A138100] 12 p1896 N84-22359
Resonant coherent anti-Stokes Raman scattering
[ONERA-P-1983-3] 16 p2487 N84-25954
Direct measurement of a VUV transition oscillator strength in xenon
[DE84-008555] 18 p2941 N84-28655
Functional state and work capacity of man when breathing oxygen and hypoxic mixtures under positive pressure 20 p3254 N84-30654
Excitation of sound by light 20 p3265 N84-30663
Transport properties and dielectric strengths of gas mixtures for use in diffuse discharge opening switches
[DE84-011444] 21 p3394 N84-31536
Improving energy performance and duty time of production process CW electrical ionization CO2 lasers by using five-component lasing mixtures 21 p3481 N84-32065
Gas chromatographic analysis of nitrogen
[BLL-RISLEY-TRANS-4563-(9091.9)] 22 p3545 N84-32443
Heat-of-mixing experiments for liquefied gases
[PB84-215094] 22 p3562 N84-32560
Current assessment of the potential of dielectric gas mixtures for industrial applications
[DE84-011658] 22 p3588 N84-32724

GAS PHASES
U VAPOR PHASES

GAS PRESSURE
Growth of epitaxial ice crystals on covellite (CuS) under reduced air pressure 02 p0306 N84-12008
Comments on laser-excited fluorescence of the hydroxyl radical: Relaxation coefficients at atmospheric pressure, appendix 5
[NASA-CR-175442] 11 p1662 N84-20843
Ion plating of coatings made from high melting point metals
[BLL-RISLEY-TRANS-4879] 12 p1796 N84-21715
Gas pressure sintering of Beta-Sialon with Z=3
[NASA-TM-77421] 14 p2129 N84-23765
Investigations of the feasibility of fabric filters at high temperatures and pressures for an energy saving method of gas purification
[BMFT-FB-T-83-292] 15 p2286 N84-24718

GAS RECOVERY
Experimental investigation concerning the feasibility of electrostatic precipitators at high pressures and temperatures — gas cleaning systems for coal conversion
[BMFT-FB-T-83-201] 08 p1183 N84-17704
The development of a geopressured energy management information and analysis system in support of research planning: Third year
[PB84-174481] 16 p2511 N84-26116
Determination of propped fracture length by detection of injected magnetic material with surface superconducting magnetometers
[PB84-181320] 17 p2698 N84-27176

GAS SPECTROSCOPY
NT FLAME SPECTROSCOPY
Spectroscopic measurements of the Laser-HANE plasma
[AD-A138685] 13 p1995 N84-22947

GAS STREAMS
Analysis of flow dynamics through small diameter gas sampling systems
[NASA-CR-175447] 11 p1728 N84-21276
Heat transfer effects during cold dense gas dispersion
[PB84-162999] 14 p2177 N84-24043

Analytical description of hypersonic gas jet discharged into motionless medium or into supersonic companion stream 17 p2644 N84-26914

GAS TEMPERATURE

Rotational CARS application to simultaneous and multiple-point temperature and concentration determination in a turbulent flow [NASA-CR-175334] 07 p1001 N84-16489

Dynamic gas temperature measurement system, volume 1 [NASA-CR-168267-VOL-1] 07 p1007 N84-16529

Development of temperature-, velocity- and concentration-profiles in a curved combustor 15 p2292 N84-24757

Simultaneous retrieval of atmospheric temperatures and ray paths from occultation spectra [NASA-CR-173849] 17 p2726 N84-27354

Effect of shroud geometry on the effectiveness of a short mixing stack gas eductor model [AD-A132173] 18 p2836 N84-29004

Plasma and magnetospheric research [NASA-CR-171157] 23 p3627 N84-34275

GAS TRANSPORT

Pulmonary doslmetry of nitrogen dioxide in animals and man [PB83-243394] 03 p0414 N84-12711

Plasma/neutral gas transport in divertors and limiters [DE84-001594] 04 p0611 N84-14034

Basic research on macromolecular dynamics [PB84-123538] 09 p1289 N84-18417

Thermodynamics and kinetics of the gas phase and pack aluminide coating formation on iron and steel 13 p2049 N84-23291

A review of the basic concepts of dense gas dispersion with special regard to modelling of heat transfer [CUEL-1512/84] 16 p2487 N84-25952

GAS TUNGSTEN ARC WELDING

Improvement of reliability of welding by in-process sensing and control (development of smart welding machines for girth welding of pipes) [DE83-017012] 01 p0091 N84-10595

Sensor control of robot arc welding 06 p0931 N84-16047

Digitally-controlled adaptive welding system [PB84-125285] 09 p1326 N84-18664

Effect of electromagnetic stirring on weld pools [AD-A136718] 10 p1460 N84-19532

Measurement of melt line penetration and heat flux during arc spot welding [DE84-002013] 13 p1997 N84-22962

Weld penetration variations [DE84-007915] 13 p1998 N84-22963

Weld quality monitoring system [VTT-RR-263] 19 p3033 N84-29240

GAS TURBINE ENGINES

NT BRISTOL-SIDDELEY BS 53 ENGINE
NT HYDROGEN ENGINES
NT JET ENGINES
NT RAMJET ENGINES
NT SUPERSONIC COMBUSTION RAMJET ENGINES
NT TF-41 ENGINE
NT TURBOFAN ENGINES
NT TURBOJET ENGINES
NT TURBOPROP ENGINES

Turbine engine exhaust hydrocarbon analysis, tasks 1 and 2 [AD-A131522] 01 p0012 N84-10074

Low strain, long life creep fatigue of AF2-1DA and INCO 718 [NASA-CR-167989] 01 p0042 N84-10268

Research and development program for the development of advanced time-temperature dependent constitutive relationships. Volume 2: Programming manual [NASA-CR-168191-VOL-2] 01 p0094 N84-10614

Auxiliary power systems with gas turbines 03 p0334 N84-12170

Small auxiliary power unit design constraints 03 p0334 N84-12172

Executive summary, aerothermal modeling program, phase 1 [NASA-CR-174602] 03 p0348 N84-12263

Aerothermal modeling program, phase 1 [NASA-CR-168243-VOL-1] 03 p0348 N84-12264

Aerothermal modeling program, phase 1 [NASA-CR-168243-VOL-2] 03 p0348 N84-12265

Development of recuperator manufacturing techniques, phase 2 [AD-A132448] 04 p0544 N84-13581

A review of NASA combustor and turbine heat transfer research [NASA-TM-83541] 05 p0631 N84-14146

Broad specification fuels combustion technology program [NASA-CR-168179] 06 p0812 N84-15283

Aircraft gas turbine guide [GE-AEG-607R(10/80)] 07 p0953 N84-16183

Digital computer program for generating dynamic turbofan engine models (DIGTEM) [NASA-TM-83446] 07 p0954 N84-16185

Program for development of strain tolerant thermal barrier coating system [NASA-CR-173214] 07 p0978 N84-16337

Dynamic gas temperature measurement system, volume 1 [NASA-CR-168267-VOL-1] 07 p1007 N84-16529

The start-up of a gas turbine engine using compressed air tangentially fed onto the blades of the basic turbine [NASA-TM-77021] 07 p1012 N84-16563

Report to Congress on the Automotive Technology Development Program [DE84-002148] 07 p1012 N84-16566

Bending fatigue of electron-beam-welded foils. Application to a hydrodynamic air bearing in the Chrysler/DOE upgraded automotive gas turbine engine [NASA-TM-83539] 07 p1016 N84-16589

Aviation-fuel property effects on combustion [NASA-CR-168334] 08 p1139 N84-17407

Status, needs, and opportunities for structural ceramics in advanced heat engines [DE84-003307] 09 p1289 N84-18413

Report to Congress on the Automotive Technology Development Program [DE84-004097] 09 p1325 N84-18660

Engine cyclic durability by analysis and material testing [NASA-TM-83577] 09 p1330 N84-18683

Ceramic coatings for heat engine materials: Status and future needs [DE84-003401] 10 p1468 N84-19590

A vibration damping treatment for high temperature gas turbine applications 10 p1514 N84-19912

Combustion Fundamentals Research [NASA-CP-2309] 11 p1608 N84-20525

Error reduction program: A progress report 11 p1609 N84-20536

Numerical modeling of turbulent flow 11 p1610 N84-20538

Characteristics of inhomogeneous jets in confined swirling air flows 11 p1612 N84-20550

Analysis of a topping-cycle, aircraft, gas-turbine-engine system which uses cryogenic fuel [NASA-TP-2294] 12 p1771 N84-21549

Overview of zirconia with respect to gas turbine applications [NASA-TP-2286] 12 p1801 N84-21740

Proceedings of the 20th Automotive Technology Development Contractors' Coordination Meeting [NASA-CR-173412] 12 p1822 N84-21877

Elevated temperature biaxial fatigue [NASA-CR-173473] 12 p1826 N84-21905

Present capabilities and future requirements for computer-aided geometric modeling in the design and manufacture of gas turbine 12 p1875 N84-22219

Tip cap for a rotor blade [NASA-CASE-LEW-13654-1] 13 p1831 N84-22560

Oxidizing seal for a turbine tip gas path [NASA-CASE-LEW-14053-1] 13 p1932 N84-22563

The development of advanced specimen testing and analysis techniques applied to fracture mechanics lifing of gas turbine components [PNR-90179] 13 p1933 N84-22575

Industrial and marine engine derivatives: A spin-off from aviation — gas turbine engines [PNR-90197] 13 p1934 N84-22581

The cyclic behaviour of a powder Ni-base superalloy — aircraft engines [PNR-90182] 13 p1961 N84-22743

Multi-small hole drilling by EDM — electrodischarge machining (EDM) [PNR-90184] 13 p1975 N84-22813

Laser drilling of aero engine components [PNR-90185] 13 p1996 N84-22956

Improved compliant hydrodynamic fluid journal bearing [NASA-CASE-LEW-13670-1] 13 p1997 N84-22959

Assessment of Alternative Aircraft Fuels [NASA-CP-2307] 14 p2106 N84-23630

Fuel property effects on USAF gas turbine engine combustors and afterburners 14 p2107 N84-23635

Fuel property effects on USN gas turbine combustors 14 p2107 N84-23636

Combustor liner construction [NASA-CASE-LEW-14035-1] 15 p2260 N84-24577

Sensor failure detection for jet engines using analytical redundance [NASA-TM-83695] 15 p2262 N84-24585

Combustion Problems in Turbine Engines [AGARD-CP-353] 15 p2289 N84-24732

Fuel effects on gas turbine combustion systems 15 p2289 N84-24737

Fuel character effects on performance of small gas turbine combustion systems 15 p2290 N84-24738

U.S. Army alternative gas-turbine fuels research: MERADCOM 15 p2290 N84-24739

Alternative fuels use in a vehicular gas turbine 15 p2290 N84-24741

Effects of airblast atomizer design upon spray quality 15 p2290 N84-24744

Detailed fuel spray analysis techniques 15 p2291 N84-24747

The design and development of a low emissions transply combustor for the civil Spey engine 15 p2292 N84-24755

Advanced combustor liner cooling concepts 15 p2292 N84-24756

Status of understanding for seal materials 15 p2343 N84-25062

Journal of aeronautical materials (selected articles) [AD-A140181] 16 p2434 N84-25611

Cold-air performance of compressor-drive turbine of department of energy upgraded automobile gas turbine engine. 3: Performance of redesigned turbine [NASA-TM-83627] 16 p2436 N84-25644

Encounters with surge 16 p2489 N84-25966

Structure of rotating stall cells. Part 1: Absolute motion 16 p2489 N84-25967

Structure of rotating stall cells. Part 2: Relative motion 16 p2490 N84-25970

Real-time simulation of an automotive gas turbine using the hybrid computer [NASA-TM-83593] 16 p2569 N84-26484

The development of military aircraft engine monitoring systems 17 p2585 N84-26570

Friction damping of flutter in gas turbine engines 17 p2609 N84-26701

Dilution jet mixing program [NASA-CR-174624] 17 p2609 N84-26702

Estimating thermal fatigue strength of prototype blades in gas turbine engine 17 p2642 N84-26906

Hot corrosion in aircraft engines [DFVLR-MITT-84-04] 18 p2796 N84-27742

Advanced Gas Turbine (AGT) Technology Project [NASA-CR-174629] 18 p2849 N84-28089

Overview of advanced Stirling and gas turbine engine development programs and implications for solar thermal electrical applications 18 p2872 N84-28231

Brayton module development overview 18 p2874 N84-28245

Near-term Brayton module status 18 p2874 N84-28246

Subatmospheric Brayton-cycle engine program review 18 p2874 N84-28247

Energy efficient engine: Turbine intermediate case and low-pressure turbine component test hardware detailed design report [NASA-CR-167973] 19 p2965 N84-28789

A diagnostic technique for improving combustor performance 19 p2967 N84-28800

Advanced Gas Turbine (AGT) [NASA-CR-174694] 19 p3117 N84-29805

PURDU-WINCOF: A computer code for establishing the performance of a fan-compressor unit with water ingestion [NASA-CR-168005] 20 p3130 N84-29875

Sputter-deposited metallic and ceramic coatings for heat engines [DE84-011401] 20 p3154 N84-30030

Atomization of liquid sheets in high pressure airflow [NASA-TM-83731] 20 p3183 N84-30223

Nonlinear Structural Analysis [NASA-CP-2297] 21 p3419 N84-31688

Nonlinear analysis for high-temperature composites: Turbine blades/vanes 21 p3421 N84-31699

Three-dimensional stress analysis using the boundary element method 21 p3421 N84-31700

Using gas-turbine power stations with aircraft engines for power-and-heat generation [AD-A142084] 21 p3434 N84-31786

Thrust Reverser/Exhaust nozzle assembly for a gas turbine engine [AD-D011101] 22 p3537 N84-32392

Turbine blade and vane heat flux sensor development, phase 1 [NASA-CR-168297] 22 p3598 N84-32790

Survey of manufacturers of high-performance heat engines adaptable to solar applications [NASA-CR-173911] 22 p3617 N84-32919

Air modulation apparatus [NASA-CASE-LEW-13524-1] 23 p3694 N84-33410

Gas turbine engine design considerations as related to alloys of high critical element content 23 p3703 N84-33470

Understanding the roles of the strategic element cobalt in nickel base superalloys 23 p3703 N84-33471

GAS TURBINES
X-ray wear metal monitor
[AD-A131251] 01 p0012 N84-10076
Advanced Gas Turbine (AGT): Power-train system development
[NASA-CR-168056] 01 p0089 N84-10581
High-temperature-turbine-technology program. Phase 2: Technology test and support studies
[DE83-015200] 01 p0092 N84-10597
Investigation of water rotor turbofans for Cruise Missile engines, volume 2
[AD-A131168] 02 p0180 N84-11173
Combustion of EDS mid-distillate and refined shale-oil residual fuel in a gas turbine with large single-combustion chamber
[DE83-017700] 03 p0351 N84-12281
Improving NDE (Non-destructive evaluation) capability through multiple inspection with application to gas turbine engine disks
[AD-A131762] 03 p0385 N84-12509
A gas turbine combustor test facility for fuel composition investigations
[AD-A132479] 04 p0487 N84-13201
An experimental investigation of soot behavior in a gas turbine combustor
[AD-A132210] 04 p0487 N84-13202
Research on aero-thermodynamic distortion induced structural dynamic response of multi-stage compressor blading
[AD-A133853] 05 p0632 N84-14151
An investigation of substrate effects on type two hot corrosion of marine gas turbine materials
[AD-A132833] 05 p0655 N84-14303
Aerothermal modeling, phase 1. Volume 1: Model assessment
[NASA-CR-168296-VOL-1] 06 p0790 N84-15155
Advanced Gas Turbine (AGT) technology development
[NASA-CR-168235] 06 p0852 N84-15554
Aeronautical propulsion: Present status and future directions
[NASA-TM-83589] 07 p0943 N84-16119
Fuel effects on gas turbine combustion
[AD-A134503] 07 p0954 N84-16187
Compressor and turbine blade boundary layer separation 07 p0955 N84-16196
Ceramic components for gas turbines, phase 2
[BMFT-FB-T-83-198] 08 p1105 N84-17183
Alternative fuels for general aviation
[GPO-27-618] 08 p1139 N84-17409
Characteristics of a four nozzle, slotted mixing stack with slanted shroud, gas eductor system
[AD-A134794] 08 p1159 N84-17547
Corrosion and corrosion prevention in gas turbines
[NLR-MP-82048-U] 10 p1431 N84-19355
Properties of fuels employed in a gas turbine combustor program
[AD-A136663] 10 p1470 N84-19600
Comparisons of rational engineering correlations of thermophoretically-augmented particle mass transfer with STAN5-predictions for developing boundary layers
[NASA-CR-168221] 10 p1471 N84-19606
Prediction of critical speeds, unbalance and nonsynchronous forced response of rotors
10 p1515 N84-19918
Modeling of dilution jet flowfields
11 p1611 N84-20547
Laboratory evaluation of novel particulate control concepts for jet engine test cells
[AD-A137641] 11 p1620 N84-20603
The development of wrought heat-resisting alloys for gas turbines
[CSIR-ME-1778] 11 p1632 N84-20689
Extension to an analysis of turbulent swirling compressible flow for application to axisymmetric small gas turbine ducts
[NASA-CR-165597] 11 p1753 N84-21445
Proceedings of the 5th Workshop on Catalytic Combustion
[PB84-145580] 12 p1794 N84-21703
Fuel effects on gas turbine engine combustion
[AD-A136365] 12 p1803 N84-21753
The effect of fluid inertia and viscoelasticity in squeeze-film damper bearings
[AD-A136054] 12 p1822 N84-21880
Advanced cogeneration research study: Executive summary
[NASA-CR-173467] 12 p1841 N84-22005
Dual clearance squeeze film damper
[NASA-CASE-LEW-13506-1] 13 p1932 N84-22562
Comparison between measured turbine stage performance and the predicted performance using quasi-3D flow and boundary layer analyses
[NASA-TM-83640] 13 p1932 N84-22564
Film cooling on a gas turbine blade near the end wall
[AD-A136794] 13 p1933 N84-22569
Optical gas temperature measurement in gas turbines
[PNR-90174] 13 p1933 N84-22572
Effect of rotation on thermal state of runner blade through effect on heat transfer on coolant side
13 p1970 N84-22787
Estimation of local stress intensity in flanged thin-wall shell structures under heavy thermal load
13 p1972 N84-22799
Stressed-strained state of flanged shells under heavy thermal load beyond elastic limit
13 p1972 N84-22800
Nonlinear/transient rotor dynamics analysis
13 p2000 N84-22977
Investigation of the effects of pressure gradient, temperature and wall temperature ratio on the stagnation point heat transfer for circular cylinders and gas turbine vanes
[NASA-CR-174667] 14 p2109 N84-23649
Wave engine technology development
[AD-A139175] 14 p2155 N84-23911
Combustion gas properties of various fuels of interest to gas turbine engineers
[NASA-TM-83682] 15 p2261 N84-24584
Development of silicon nitride gas turbine components, phase 2
[BMFT-FB-T-83-322] 15 p2262 N84-24591
The effects of fuel composition upon heat transfer in gas turbine combustors 15 p2290 N84-24740
Design of a combustion chambers with reverse flow for small gas turbines 15 p2290 N84-24742
Recent research on the efflux of the Rolls-Royce vaporiser fuel injector 15 p2290 N84-24743
The design and performance of a combustor with a multiple jet primary zone 15 p2291 N84-24749
Formation and destruction of organic pollutants in thermal systems and flames 15 p2291 N84-24752
Optical measurements of soot size and number density in a complex flow, swirl-stabilized combustor
15 p2292 N84-24753
Development of high temperature ceramic parts for vehicular gas turbines
[BMFT-FB-T-84-006] 15 p2301 N84-24812
Application of a quasi-3D inviscid flow and boundary layer analysis to the hub-shroud contouring of a radial turbine
[NASA-TM-83669] 16 p2439 N84-25647
Unsteady flow in turbomachinery: An overview
16 p2488 N84-25961
Operating conditions and materials selection and development in gas turbines
[NLR-MP-81012-U] 17 p2610 N84-26705
Long-term materials test program
[DE84-006899] 18 p2815 N84-27870
Low aspect ratio turbine design at Rolls-Royce
19 p3023 N84-29169
Space Shuttle Orbiter improved auxiliary power unit
20 p3144 N84-29965
Increase of efficiency in cooled high temperature turbines
[BMFT-FB-W-84-019] 21 p3343 N84-31212
AFB/open cycle gas turbine conceptual design study
[NASA-CR-168135] 21 p3434 N84-31784
A study of heat release rate distribution in a gas turbine combustor by acoustic measurements
22 p3536 N84-32385
Thrust Reverser/Exhaust nozzle assembly for a gas turbine engine
[AD-D011101] 22 p3537 N84-32392
Mass transfer from a circular cylinder: Effects of flow unsteadiness and slight nonuniformities
[NASA-CR-174759] 22 p3593 N84-32751
Non-destructive evaluation techniques, high temperature ceramic component parts for gas turbines
[NASA-TM-77755] 23 p3694 N84-33413
Practical implications of the use of aluminide coatings for the corrosion protection of superalloys in gas turbines 23 p3703 N84-33476
Long Term Materials Test Program
[DE84-014791] 23 p3719 N84-33579

GAS VISCOSITY
Enhanced compressible fluids investigation
[AD-A131622] 02 p0218 N84-11428
Nitrogen threshold experiment
15 p2427 N84-25578

GAS WELDING
NT BRAZING
Characterization of submerged-arc and gas-metal-arc weldments in hY-100 steel
[AD-A141939] 20 p3196 N84-30298
Bonding materials by gas-phase precipitation
23 p3709 N84-33512

GAS-GAS INTERACTIONS
NT ASSOCIATION REACTIONS

GAS-LIQUID INTERACTIONS
NT AIR SEA ICE INTERACTIONS
NT AIR WATER INTERACTIONS
Raman scattering temperature measurements for water vapor in nonequilibrium dispersed two-phase flow
[DE83-900107] 01 p0080 N84-10522
Variation of the size of nitrogen droplets in a flow of gaseous nitrogen
[DFVLR-FB-83-13] 02 p0221 N84-11450
An acoustic levitation technique for the study of nonlinear oscillations of gas bubbles in liquids
[AD-A132858] 05 p0681 N84-14477
Modeling of zero gravity venting
[NASA-CR-173503] 14 p2145 N84-23854
Passage of waves in fluids through damping interlayers and their interaction with barrier
17 p2647 N84-26934

GAS-METAL INTERACTIONS
Chemical erosion of first-wall materials by atomic hydrogen at high temperatures
[DE83-017161] 03 p0450 N84-12962
Oxygen adsorption and initial oxidation of single crystal first row transition metal and alloy surfaces
06 p0816 N84-15316
Kinematics of the structure and morphology during surface reactions between transition metals and molecular hydrogen 06 p0816 N84-15317
Chemical modification of surfaces: The effect of potassium on the chemisorption of molecules on transition metal crystal surfaces
[DE84-008345] 14 p2244 N84-24473
Fatigue crack growth in vacuum and in gaseous media
24 p3870 N84-34529

GAS-SOLID INTERACTIONS
NT GAS-METAL INTERACTIONS
High temperature gas energy transfer
[AD-A131782] 03 p0433 N84-12836
Interaction of gas explosions with buildings
06 p0836 N84-15447
Interactions of vibrationally excited molecules with solid surfaces
[AD-A133449] 06 p0915 N84-15950
Shot noise generated by gas impact during a cometary fly-by — Vega Halley's comet flyby
08 p1118 N84-17273
Turbulent boundary layer thermochemical attack on coated walls
[DE84-005892] 12 p1817 N84-21843
An exactly solvable model for ideally polarizable interfaces
[AD-A138719] 13 p2033 N84-23182
The ideally polarizable interface: A solvable model and general sum rules
[AD-A138720] 13 p2036 N84-23207
Neutral gas plasma interactions and critical ionization velocity phenomena
[AD-A139233] 14 p2228 N84-24360
Interaction of atomic oxygen with solid surfaces at orbital altitudes (A0114) 15 p2271 N84-24836
Study of gas-surface interactions by laser-induced fluorescence detection
[AD-A141559] 19 p2988 N84-28933
Poly(ethylene maleate) - cyclopentadiene: A model reactive polymer-vapor system for evaluation of a SAW (Surface Acoustic Wave) microsensor
[AD-A141531] 19 p2999 N84-29001
Formation of electron-hole pairs in a semiconductor by vibrationally-excited molecules
[AD-A143552] 22 p3664 N84-33226
A facility for investigating interactions of energetic atomic oxygen with solids 24 p3863 N84-34481
A low Earth orbit molecular beam space simulation facility 24 p3863 N84-34483

GAS-SOLID INTERFACES
Study of vibrational energy transfer at a surface by a time-of-flight method
[AD-A131798] 03 p0432 N84-12833
Computation of turbulent gas-particle suspension flows in channels 06 p0839 N84-15470
Photoenhancement of gas-solid reactions by surface excitation — ultraviolet irradiation
[DE84-003106] 07 p0972 N84-16299
Normal reflection of a shock wave at a rigid wall in a dusty gas
[UTIAS-274] 12 p1815 N84-21829
Liquid-vapor and solid-liquid-vapor phase equilibria in natural gas systems
[PB84-179191] 16 p2474 N84-25860
Conductivity in semiconductors induced by vibrational-to-electronic energy transfer
[AD-A140094] 16 p2553 N84-26380
Theory of laser-induced surface chemistry with applications to microelectronics and heterogeneous catalysis
[AD-A141832] 19 p2989 N84-28936
Measure of mass flow rate in gas-solid two phase fluids; application to pneumatic transport
21 p3403 N84-31590

Ekman boundary conditions for numerical models of centrifuge flows
[DE84-013576] 22 p3595 N84-32765
Laser control of chemical reactions
[AD-A144359] 24 p3908 N84-34758
GASDYNAMIC LASERS
Microwave discharge in a supersonic flow for the excitation of a gas dynamic CO laser
[DFVLR-FB-83-21] 07 p1011 N84-16558
GASEOUS CAVITATION
U CAVITATION FLOW
U GAS FLOW
GASEOUS DIFFUSION
NT GASEOUS SELF-DIFFUSION
A numerical model for diffusion of helium in a hydrogen plasma
[REPT-83-147] 03 p0450 N84-12964
Diffusion properties and phase transitions of the metalic glass a-Zr2-PdH-x
[DE83-016626] 05 p0660 N84-14341
DARIK: A computer based system for simulating the potential hazards from releases of pressurized gases
[FOA-C-40183-C2] 10 p1565 N84-20255
Simulation of the ignition of a mixture of hydrogen and oxygen
[PML-1983-34] 12 p1790 N84-21676
Thermodynamics and kinetics of the gas phase and pack aluminide coating formation on iron and steel
13 p2049 N84-23291
A review of the basic concepts of dense gas dispersion with special regard to modelling of heat transfer
[OUEL-1512/84] 16 p2487 N84-25052
Fugacity of gaseous hydrogen
[NLR-MP-83038-U] 17 p2669 N84-27019
Diffusion of gases in porous solids: Simulations and measurements
[DE84-010822] 20 p3185 N84-30241
Turbulent diffusion behind vehicles: Experiments and verification of roadway models
[PB84-194273] 21 p3326 N84-31101
GASEOUS FUELS
Alternative gaseous-fuels safety assessment
[DE84-001735] 05 p0662 N84-14350
In vitro chlorophyll photosynthetic reaction
[PB84-104892] 08 p1198 N84-17810
Stirling engine applications study
[PB84-148055] 12 p1823 N84-21886
Very low thrust gaseous oxygen-hydrogen rocket engine ignition technology 13 p1952 N84-22692
GASEOUS SELF-DIFFUSION
Wind tunnel study of natural gas dispersion from models of pipeline fractures and measurements of source characteristics
[OUEL-1466/83] 07 p1005 N84-16516
Theoretical influence of the deposition conditions on the uniformity of boron carbide coatings
13 p1954 N84-22707
GASES
NT AIR
NT ARGON
NT ARGON PLASMA
NT CARBON DIOXIDE
NT CARBON MONOXIDE
NT CESIUM PLASMA
NT CHARGED PARTICLES
NT COLD GAS
NT COLD PLASMAS
NT COLLISIONAL PLASMAS
NT COLLISIONLESS PLASMAS
NT COMPRESSED AIR
NT COMPRESSED GAS
NT CONDUCTION ELECTRONS
NT COSMIC GASES
NT DENSE PLASMAS
NT DETONABLE GAS MIXTURES
NT DEUTERIUM
NT DIATOMIC GASES
NT DISSOLVED GASES
NT ELECTRON PLASMA
NT EXHAUST GASES
NT EXPIRED AIR
NT FLAMMABLE GASES
NT FLUE GASES
NT GAS MIXTURES
NT GAS STREAMS
NT HEAVY NUCLEI
NT HELIUM
NT HELIUM ISOTOPES
NT HELIUM PLASMA
NT HIGH PRESSURE OXYGEN
NT HIGH TEMPERATURE AIR
NT HIGH TEMPERATURE GASES
NT HIGH TEMPERATURE PLASMAS
NT HYDROGEN
NT HYDROGEN ATOMS
NT HYDROGEN IONS
NT HYDROGEN ISOTOPES
NT HYDROGEN PLASMA
NT HYPERNUCLEI
NT IDEAL GAS
NT INTERPLANETARY GAS
NT INTERSTELLAR GAS
NT IONIZED GASES
NT KRYPTON
NT LASER PLASMAS
NT LIQUEFIED GASES
NT LIQUEFIED NATURAL GAS
NT LIQUID AMMONIA
NT LIQUID HELIUM
NT LIQUID HELIUM 2
NT LIQUID HYDROGEN
NT LIQUID NITROGEN
NT LIQUID OXYGEN
NT METALLIC PLASMAS
NT MOLECULAR GASES
NT MONATOMIC GASES
NT NATURAL GAS
NT NEON
NT NEON ISOTOPES
NT NEUTRAL GASES
NT NITROGEN
NT NITROGEN IONS
NT NUCLEI (NUCLEAR PHYSICS)
NT ODD-EVEN NUCLEI
NT ORTHO HYDROGEN
NT OXYGEN
NT OXYGEN ATOMS
NT OXYGEN IONS
NT OXYGEN ISOTOPES
NT OXYGEN PLASMA
NT OZONE
NT RADON
NT RADON ISOTOPES
NT RARE GASES
NT RAREFIED GASES
NT REAL GASES
NT RELATIVISTIC PLASMAS
NT ROTATING PLASMAS
NT SOLAR WIND
NT SOLIDIFIED GASES
NT STELLAR WINDS
NT STRONGLY COUPLED PLASMAS
NT THERMAL PLASMAS
NT TRITIUM
NT XENON
NT XENON 133
Ultraviolet-laser triggering of a 5-megavolt multistage gas switch
[DE83-013641] 01 p0067 N84-10570
The shock wave structure in one-component gas and in binary gas mixture
[ISSN-0208-5658] 03 p0370 N84-12407
Present state of research in Japan on toxicities of gases during fire 04 p0511 N84-13349
Dependence of evolution of toxic gases on burning conditions 04 p0514 N84-13377
Vapor-phase heat-transport system
[DE84-001341] 04 p0535 N84-13516
Electron-drift velocity and ionization and attachment coefficients in gases/mixtures for diffuse-discharge opening switches
[DE83-017206] 04 p0609 N84-14017
Mass transfer at gas-evolving surfaces in electrolysis
[DE84-002567] C5 p0651 N84-14282
Review of properties of various types of calorimeters: High luminosity and high energy
06 p0911 N84-15917
Temporal and spatial gaseous HCl concentrations in the near field STS postlaunch environment, Kennedy Space Center, Florida
[AD-A136935] 10 p1532 N84-20032
Kinetic theory of gases, magneto-fluid dynamics and their application
[AD-A137082] 10 p1585 N84-20390
A survey of gas-side fouling in industrial heat-transfer equipment
[NASA-CR-173489] 12 p1841 N84-22003
Exact solution to problem of interaction between wedge moving at supersonic velocity and interface of two gaseous media 13 p1971 N84-22790
The calculation of the heat transfer associated with the injection of methane gas at the stagnation point of the dissociated boundary layer of the laminar air flow
[AD-A139063] 13 p1990 N84-22918
Power transfer for microwave discharges
[AD-A138868] 13 p2044 N84-23267
Kinetic theory of gases, magneto-fluid dynamics and their application
[AD-A139616] 15 p2332 N84-25007
Vapor-phase heat-transport system
16 p2518 N84-26161
Gas-fired duplex free-piston Stirling refrigerator
[PB84-171537] 17 p2639 N84-26884
Simultaneous retrieval of atmospheric temperatures and ray paths from occultation spectra
[NASA-CR-173649] 17 p2726 N84-27354
Optical generation and detection of acoustic pulse profiles in gases for novel ultrasonic absorption spectroscopy
[AD-A141876] 19 p3104 N84-29720
Kinetic processes in high pressure gases. Excited state collisions
[AD-A141927] 20 p3152 N84-30016
On waves in nonadiabatic and nonequilibrium gases
[AD-A141450] 21 p3383 N84-31465
Global solutions for the one-dimensional equations of a viscous reactive gas
[AD-A142931] 21 p3400 N84-31569
Features of behaviour of gas bubbles in molten oxide films during enamelling
[BLL-M-35672-(5828.4)] 22 p3553 N84-32496
Isotope effects in the solution of gases in liquids
[DE84-014848] 23 p3715 N84-33549
GASIFICATION
NT COAL GASIFICATION
Methanol production by catalytic gasification of wood
[DE83-013744] 01 p0053 N84-10341
Fluidized bed gasification of biomass to methane
[NASA-CASE-NPO-15903-1] 03 p0403 N84-12635
Gasogen for automobile use
[DE84-000712] 06 p0813 N84-15291
GASKETS
Process for preparing perfluorotriazine elastomers and precursors thereof
[NASA-CASE-ARC-11402-1] 13 p1961 N84-22744
Fluorinated polyurethanes
[AD-D011066] 19 p3000 N84-29011
GASOHOL (FUEL)
Ethyl alcohol fuel production from the Jerusalem artichoke
[DE83-013488] 02 p0203 N84-11326
Ethanol fuels reference guide: A decision-makers guide to ethanol fuels
[DE83-014401] 02 p0204 N84-11329
Alcohol fuels: Options for developing countries
[PB84-129808] 09 p1291 N84-18428
Emissions and efficiency of agricultural diesels using low-proof ethanol as supplement fuel
[DE84-003931] 09 p1325 N84-18659
After-test engine inspection of US Army administrative and light-tactical vehicles operated on gasohol and unleaded gasoline
[AD-A137312] 10 p1502 N84-19817
Methanol viewed as alternative to gasoline
14 p2133 N84-23785
Evaluation of the performance of filter separators with gasohol
[AD-A139645] 15 p2343 N84-25066
GASOLINE
EPA evaluation of the Atomized Vapor Injector device under Section 511 of the Motor Vehicle Information and Cost Savings Act
[PB83-214684] 01 p0163 N84-11072
The determination of research octane number of gasoline fuels by octane analyzer
[AD-A132427] 04 p0509 N84-13335
Alternative gaseous-fuels safety assessment
[DE84-001735] 05 p0662 N84-14350
1981 CRC octane number requirement survey
[AD-A133369] 06 p0812 N84-15288
After-test engine inspection of US Army administrative and light-tactical vehicles operated on gasohol and unleaded gasoline
[AD-A137312] 10 p1502 N84-19817
Research on alternative fuels
[CSIR-RME-465] 11 p1639 N84-20711
Impact assessment of reducing gasoline volatility
[PB84-152024] 14 p2133 N84-23781
Evaluation of the performance of filter separators with gasohol
[AD-A139645] 15 p2343 N84-25066
GASP
U GLOBAL AIR SAMPLING PROGRAM
GASTROINTESTINAL SYSTEM
NT STOMACH
A study on the gastrointestinal hormones and the gastric acid secretion during physical stress in man
[NDRE/PUBL-83/1001] 10 p1546 N84-20136
General introduction to the study on the gastrointestinal hormones and the gastric acid secretion during physical stress in man 10 p1546 N84-20137
The effect of physical stress on gastric secretion and pancreatic polypeptide levels in man
10 p1546 N84-20138
GATES (CIRCUITS)
Gate array layout using CADDS 2
[DE83-014840] 01 p0075 N84-10491

Feasibility study for a generalized gate logic software simulator
[NASA-CR-172159] 01 p0118 N84-10765
Global wiring strategy for IC and PC routing
[DE83-009934] 02 p0215 N84-11412
A rectangular gate merged MOSBJT
[AD-A132450] 04 p0525 N84-13453
Superregenerative amplifier in linear mode as a radar range gate-derivations
[DE84-000978] 04 p0528 N84-13474
Development of short gate FET's
[AD-A133852] 05 p0674 N84-14431
Joint services electronics program
[AD-A132992] 05 p0754 N84-14948
Nanosecond image-shuttering studies at Los Alamos National Laboratory
[DE84-001733] 06 p0830 N84-15405
Automated synthesis of digital hardware modules: Simulation and verification of interconnections
[AD-A135298] 08 p1210 N84-17889
Active mixer with dual gated FET
[INPE-2744-TDL/135] 10 p1484 N84-19704
The 30-GHz monolithic receive module
[NASA-CR-168326] 11 p1642 N84-20737
The new method of implementation for ternary logic system
[AD-P002332] 14 p2190 N84-24123
Tolerance analysis and related measurements on MVL-CCD's (Multiple-valued-Charge-Coupled Devices)
[AD-P002346] 14 p2191 N84-24137
Logic-type Schmitt circuit using multi-valued gates
[AD-P002353] 14 p2192 N84-24144
An algebraic method for hazard analysis with the maximum number of spikes in combinational and sequential circuits
[AD-P002369] 14 p2194 N84-24160
Mx, A mix-valued algebra
[AD-P002371] 14 p2195 N84-24162
Synthesis of multiple-valued logic functions based on a modular design approach
[AD-P002378] 14 p2195 N84-24169
Synthesis algorithm for minimal components in T-uim networks
[AD-P002379] 14 p2196 N84-24170
Room temperature optical bistability in semiconductors and realization of optical and gates
14 p2233 N84-24393
Low temperature (150 to 250(0)C) deposition of n(+) and p(+) microcrystalline silicon for VLSI device contacts
[DE84-006474] 14 p2243 N84-24470
A simulation program with latency exploitation for the transient analysis of digital circuits
[AD-A142377] 20 p3177 N84-30181
Gate arrays — integrated circuits
[AD-B082958] 20 p3182 N84-30214
HgCdTe surface and defect study program
[AD-A142342] 20 p3308 N84-31010
Universal control grid modulator
[AD-D011108] 22 p3580 N84-32672
Pulse driver for flux gate magnetometer
[AD-D011053] 22 p3596 N84-32774
FET charge sensor and voltage probe
[NASA-CASE-NPO-16045-1] 22 p3662 N84-33211
FET switching regulator
[AD-D011146] 23 p3735 N84-33665

GATES (OPENINGS)
Movement of free-flowing materials in aerodynamic controlled-feed gate 09 p1324 N84-18652

GAUGE INVARIANCE
Research in theoretical nuclear physics
[DE84-003442] 08 p1230 N84-18038
Chiral anomalies and differential geometry
[DE84-004637] 11 p1717 N84-21200
Research program in elementary particle theory
[DE84-006867] 14 p2223 N84-24338
Staggered fermions and rotation-gauge invariance
[PREPRINT-357] 20 p3297 N84-30937
Renormalized action improvements
[DE84-011810] 20 p3311 N84-31028

GAUGE THEORY
Topics in gravitation and gauge fields
02 p0247 N84-11616
Progress in lattice gauge theory
[DE83-014055] 03 p0436 N84-12862
Physics at very high energies
[DE83-012854] 03 p0438 N84-12878
Excitation of simple atoms by slow magnetic monopoles
[DE84-006209] 12 p1903 N84-22393
Supersymmetric nonlinear sigma models constrained on a noncompact manifold
[PREPRINT-356] 20 p3283 N84-30843
Research program in elementary particle theory
[DE84-011502] 20 p3297 N84-30933
Staggered fermions and rotation-gauge invariance
[PREPRINT-357] 20 p3297 N84-30937
High energy nuclear structures
[DE84-010062] 20 p3299 N84-30947
Stochastic quantization: Stabilizing quantum models
[REPT-60] 20 p3312 N84-31032
Theoretical high energy physics
[DE84-011854] 21 p3495 N84-32153
Canonical commutation relations and Gauss' law in the temporal gauge
[PREPRINT-360] 23 p3819 N84-34216
Weak interactions on the lattice
[TH.3774-CERN] 23 p3819 N84-34219
Weak coupling tests of lattice QCD
[DE84-013440] 23 p3831 N84-34299

GAUSS EQUATION
Exact performance of general second-order processors for Gaussian inputs
[AD-A134098] 05 p0733 N84-14816
The elements of the Earth's magnetism for the Epochs 1600, 1650, 1700, 1780, 1842 and 1885, and their secular changes derived from observations calculated using the coefficients of the Gaussian 'General Theory of Earth's Magnetism'
[NASA-TM-77100] 07 p1033 N84-16700
On the determination of the coefficients of the Gaussian general theory of the Earth's magnetism for the year 1885 and about the relationship of the three Earth-magnetic elements
[NASA-TM-77105] 07 p1033 N84-16701
TRAN-STAT statistics for environmental studies. Statistical distributions for contaminant studies, and the estimation of average concentrations
[DE84-006579] 12 p1845 N84-22029
Analysis of a Cassegrain antenna having a Gaussian illumination pattern
[REPT-S-147] 15 p2320 N84-24927
Gaussian quadrature formulae for tetrahedronal regions
[ISD-307] 15 p2396 N84-25377
Strong confidence intervals: A compromise between the Gaussian and the slash
[AD-A142981] 21 p3475 N84-32021

GAUSS FUNCTION
U GAUSS EQUATION

GAUSSIAN DISTRIBUTIONS
U NORMAL DENSITY FUNCTIONS

GAUSSIAN NOISE
U RANDOM NOISE

GAUSSMETERS
U MAGNETOMETERS

GAUZE
Liquid flow through mesh-wire gauze wicks — models
[NLR-TR-83104-U] 21 p3403 N84-31592

GC-130 AIRCRAFT
U C-130 AIRCRAFT

GEAR TEETH
Efficiency of nonstandard and high contact ratio involute spur gears
[NASA-TM-83725] 19 p3031 N84-29223
Lubricant jet flow phenomena in spur and helical gears with modified center distances and/or addendums for out-of-mesh conditions
[NASA-TM-83723] 19 p3031 N84-29224

GEARS
Self-locking telescoping manipulator arm
[NASA-CASE-MFS-25906-1] 02 p0269 N84-11761
A method of economical gear finishing of surface hardened gears 07 p0983 N84-16370
Advanced finishing methods for spiral bevel and hypoid gears 09 p1293 N84-18451
Some observations on the performance of Fomblin Z25 oil and Braycote 3L-38RP grease in ball bearings and gear boxes 09 p1296 N84-18467
The tribology of gears for satellite applications
09 p1296 N84-18470
Design optimization of marine reduction gears
[AD-A136352] 09 p1325 N84-18656
Surface fatigue characteristics of transmission gears
15 p2307 N84-24843
Status of understanding for gear materials
15 p2342 N84-25061
An analytical method to predict efficiency of aircraft gearboxes
[NASA-TM-83716] 16 p2433 N84-25606
Dynamics of early planetary gear trains
[NASA-CR-3793] 16 p2498 N84-26027
Directional gear ratio transmissions
[NASA-CASE-LAR-12644-1] 18 p2848 N84-28084
Parameter studies of gear cooling using an automatic finites element mesh generator
[NASA-TM-83721] 18 p2849 N84-28087
An investigation of the transient thermal analysis of spur gears
[NASA-TM-83724] 18 p2849 N84-28088
Establishment of a Computer-Aided Design (CAD)/Computer-Aided Manufacturing (CAM) process for the production of cold forged gears
[AD-A141018] 18 p2921 N84-28522
Efficiency of nonstandard and high contact ratio involute spur gears
[NASA-TM-83725] 19 p3031 N84-29223
Lubricant jet flow phenomena in spur and helical gears with modified center distances and/or addendums for out-of-mesh conditions
[NASA-TM-83723] 19 p3031 N84-29224
Summary of drive-train component technology in helicopters
[NASA-TM-83726] 20 p3195 N84-30294
The chemical and physical changes on lubricated surfaces 22 p3602 N84-32820
Constant speed drive with compensation using differential gears
[AD-D011158] 23 p3758 N84-33812

GEL PERMEATION CHROMATOGRAPHY
U LIQUID CHROMATOGRAPHY

GELS
NT DOUBLE BASE ROCKET PROPELLANTS
NT SILICA GEL
Multi-detector gel permeation chromatography and its application to the analysis of industrial samples
[MQAD-808] 03 p0351 N84-12283
Gel structures in leached alkali silicate glass
[DE84-009928] 18 p2819 N84-27899

GEMINID METEOROIDS
Meteor showers effects in the low terrestrial ionosphere detected at VLF ionosonde and long distance propagation paths
[INPE-3242-PRE/588] 24 p3990 N84-35246

GENERAL AVIATION AIRCRAFT
NT AGRICULTURAL AIRCRAFT
NT CESSNA 210 AIRCRAFT
Crashworthiness: An illustrated commentary on occupant survival in general aviation accidents
[AD-A130198] 01 p0006 N84-10036
Flight evaluation results from the general-aviation advanced avionics system program
[NASA-TM-84367] 01 p0007 N84-10042
Single pilot IFR accident data analysis
03 p0311 N84-12031
Study to determine the IFR operational profile and problems to the general aviation pilot
03 p0311 N84-12032
Analysis of general aviation single-pilot IFR incident data obtained from the NASA Aviation Safety Reporting System 03 p0312 N84-12033
Flight test validation of a design procedure for digital autopilots 03 p0312 N84-12036
Pilot controls and SPIRF flight
03 p0312 N84-12038
NASA Demonstration Advanced Avionics System (DAAS) 03 p0314 N84-12048
An overview of the demonstration advanced avionics system guest pilot evaluation conducted at Ames Research Center 03 p0314 N84-12049
An experimental investigation of separated three dimensional flow on general aviation twin-engine aircraft
03 p0319 N84-12067
A study of wing-body aerodynamic interference of a light twin aircraft utilizing a panel method potential flow program 03 p0327 N84-12134
Safety report: General aviation crashworthiness project, phase 1
[PB83-917004] 03 p0328 N84-12142
Census of US civil aircraft
[PB83-252460] 04 p0478 N84-13147
FAA (Federal Aviation Administration) statistical handbook of aviation: Calender year 1982
[PB84-127323] 08 p1096 N84-17124
A brief review of aircraft controls research opportunities in the general aviation field 11 p1619 N84-20595
Instrument landing system critical area studies
[AD-A138228] 12 p1768 N84-21530
General aviation pilot and aircraft activity survey
[PB84-154301] 14 p2100 N84-23602
General aviation TCAS (Traffic Alert and Collision Avoidance System) avionics (GATCAS)
[AD-A139145] 14 p2104 N84-23618
Application of near-term technology to a Mach 2.0 variable-sweep-wing, supersonic-cruise executive jet
[NASA-CR-172321] 14 p2104 N84-23621
A comparison of measured take-off and flyover sound levels for several general aviation propeller-driven aircraft
[AD-A139901] 15 p2404 N84-25429
Competitive assessment of the U.S. Civil aircraft industry
[PB84-154913] 15 p2419 N84-25525

Rotary balance data for a typical single-engine general aviation design for an angle-of-attack range of 20 to 90 deg. 3: Influence of control deflection on predicted model D spin modes
[NASA-CR-3248] 16 p2438 N84-25641
Annual review of aircraft accident data: US general aviation, 1980
[PB84-182914] 16 p2443 N84-25672
CONUS (Continental United States) Omega/VLF data collection: Flight test
[AD-A140252] 16 p2446 N84-25688
Renovation of the Helice
[SNIAS-832-111-109] 16 p2448 N84-25703
Civil aircraft windscreen damage due to birdstrikes
[AD-P003214] 17 p2594 N84-26627
Natural laminar flow experiments on modern airplane surfaces
[NASA-TP-2256] 17 p2599 N84-26660
Cleared for the visual approach: Human factor problems in air carrier operations
[NASA-CR-166573] 17 p2603 N84-26679
On the stick-free longitudinal dynamic stability of a general aviation aircraft equipped with an all-movable horizontal tail 18 p2797 N84-27748
Experimental study of noise transmission into a general aviation aircraft
[NASA-CR-172357] 20 p3290 N84-30688
Development of 2 underseat energy absorbers for application to crashworthy passenger seats for general aviation aircraft
[NASA-CR-158927] 22 p3533 N84-32367

GENERAL DYNAMICS AIRCRAFT
NT CV-990 AIRCRAFT
NT F-106 AIRCRAFT
NT F-111 AIRCRAFT

GENERAL DYNAMICS MILITARY AIRCRAFT
U MILITARY AIRCRAFT

GENERATORS
An analysis of application generators
[AD-A137159] 11 p1708 N84-21131
Generation of ultra-short laser pulses in the visible and near infrared for a spaceborne laser ranging transmitter 24 p3906 N84-34740

GENETIC CODE
Genetic study of plasmid integration in yeast chromosomes. Report 1: Effect of integration of episomal plasmid in meiotic crossover in chromosome 3 23 p3806 N84-34131
Genetic study of plasmid integration in yeast chromosomes. Report 2: Analysis of irregular meiotic segregation 23 p3806 N84-34132
Obtaining yeast vector marked by mutation of multiple antibiotic resistance 23 p3806 N84-34133

GENETIC ENGINEERING
European Scientific Notes, volume 38, number 1
[AD-A136668] 10 p1506 N84-20472
East Europe report: Scientific affairs
[JPRS-ESA-84-009] 14 p2136 N84-23602
Middle East Technical University Journal of Pure and Applied Sciences, volume 15, no. 2 15 p2401 N84-25406
USSR Report: Life sciences biomedical and behavioral sciences
[JPRS-UBB-84-013] 17 p2740 N84-27397
ECUT: Energy Conversion and Utilization Technologies program - Biocatalysis research activity
[NASA-CR-173752] 18 p2868 N84-28207
Unraveling photosystems
[DE84-013812] 22 p3629 N84-32994
East Europe report: Scientific affairs
[JPRS-ESA-84-007] 23 p3728 N84-33628
Genetic study of plasmid integration in yeast chromosomes. Report 2: Analysis of irregular meiotic segregation 23 p3806 N84-34132

GENETICS
NT GENETIC CODE
NT MUTATIONS
The relevance of experimental animal studies to the human experience
[DE83-014053] 01 p0112 N84-10729
Local calcium entry and the guidance of growth 02 p0263 N84-11726
Biochemical indicators of thermal stress: Selected genetic and physiological parameters
[PB84-100122] 08 p1198 N84-17808
The numerical calculation of traveling wave solutions of nonlinear parabolic equations on the line
[AD-A139236] 14 p2212 N84-24283
USSR report. Life sciences: Biomedical and behavioral sciences
[JPRS-UBB-84-007] 14 p2250 N84-24515
Computer-assisted chromosome analysis 15 p2430 N84-25590
Microbiological and biochemical studies towards optimization of substrate utilization by methanogenic bacteria
[PB84-179753] 16 p2474 N84-25859
New variant of evaluation of predicted petroleum and as reserves on genetic basis 17 p2703 N84-27219
Genetic control and phenotypic correction of cellular immune response to H-antigen of Salmonella typhimurium 17 p2740 N84-27400
Gene mutations, chromosome aberrations and survivability after X-ray irradiation of Chinese hamster cell culture under conditions of cysteamine protection 17 p2743 N84-27413
Genetic types of geological bodies of sedimentary mantle (based on seismic profiling data) 18 p2861 N84-28165
USSR report: Life sciences, biomedical and behavioral sciences
[JPRS-UBB-84-011] 18 p2894 N84-28364
Organophosphate toxicity: Genetics, receptors, and antidotes
[AD-A141059] 20 p3259 N84-30685
USSR report: Life sciences. Biomedical and behavioral sciences
[JPRS-UBB-84-020] 23 p3805 N84-34128
Genetic study of plasmid integration in yeast chromosomes. Report 1: Effect of integration of episomal plasmid in meiotic crossover in chromosome 3 23 p3806 N84-34131
Genetic study of plasmid integration in yeast chromosomes. Report 2: Analysis of irregular meiotic segregation 23 p3806 N84-34132

GENITOURINARY SYSTEM
NT BLADDER

GEOASTROPHYSICS
U ASTROPHYSICS
U GEOPHYSICS

GEOBOTANY
Multiseasonal and geobotanical approach in remote detection of greisenization areas in the Serra da Pedra Branca Granite, Goias State, Brazil
[E84-10070] 07 p1020 N84-16617
An evaluation of thematic mapper simulator data for the geobotanical discrimination of rock types in Southwest Oregon
[NASA-CR-166569] 12 p1828 N84-21915
Detection of hidden mineral deposits by airborne spectral analysis of forest canopies — Spirit Lake, Washington; Catheart Mountain, Maine; Blacktail Mountain, Montana; and Cottier Basin, Montana
[E84-10110] 12 p1830 N84-21928
Remote sensing for geobotanical prospecting 22 p3613 N84-32889

GEOCHEMISTRY
NT BIOGEOCHEMISTRY
Development of a method and apparatus for quantitative assessment of the iron content of rocks and ores by means of data obtained from borehole radiometry
[BLL-M-28724-(5828.4)] 02 p0246 N84-11613
On the genesis of hydrocarbons in the German Alpine foreland
[BMFT-FB-T-83-103] 02 p0250 N84-11637
Summaries of physical research in the geosciences
[DE83-017885] 04 p0550 N84-13624
Assessment of quality of data on tapes from the hydrogeochemical and stream sediment reconnaissance
[DE83-017697] 04 p0554 N84-13647
Separated isotopes: Vital tools for science and medicine
[DE83-011646] 04 p0603 N84-13981
Uranium anomalies in Wyoming and parts of adjacent states. National Uranium Resource Evaluation
[DE83-005353] 06 p0866 N84-15638
Global Change: A Biogeochemical Perspective
[NASA-CR-173210] 07 p1027 N84-16656
Remote sensing and geologic studies of the planetary crusts
[NASA-CR-173216] 07 p1091 N84-17092
Geological and geochemical controls on the chemical evolution of subsurface water in undisturbed and surface-mined landscapes in western North Dakota
[PB84-126952] 08 p1180 N84-17685
Salton Sea Geothermal Field, California, as a near-field natural analog of a radioactive waste repository in salt
[DE84-003851] 09 p1346 N84-18794
Design, performance, and analysis of an aquifer thermal-energy-storage experiment using the doublet-well configuration
[DE84-001811] 10 p1529 N84-20019
Supplement to the technical assessment of geoscience-related research for geothermal energy technology
[DE84-002373] 10 p1530 N84-20020
Geochemistry of volcanic rocks from the Wawa greenstone belt 11 p1680 N84-20963
Continental crustal composition and lower crustal models 11 p1680 N84-20965
Archean crust-mantle geochemical differentiation 11 p1680 N84-20966
Venus: Global radar properties in a geological context 11 p1754 N84-21453
High-temperature inclusions in the Murchison meteorite 11 p1755 N84-21454
Lunar sample analysis
[NASA-CR-171771] 11 p1758 N84-21477
MINTEQ: A computer program for calculating aqueous geochemical equilibria
[PB84-157148] 12 p1795 N84-21704
Research highlights from the Earth Sciences Division
[DE84-003916] 12 p1828 N84-21916
Stratigraphic, geochemical, and petrologic studies of the Ammonoosuc volcanics, northcentral Massachusetts and southwestern New Hampshire 13 p2013 N84-23059
Geology, geochemistry, and geochronology of volcanic rocks between Cuauhtemoc and La Junta, central Chihahua, Mexico 13 p2014 N84-23066
Surface compositions in the Aristarchus Region: Implications for regional stratigraphy 13 p2087 N84-23519
A case for olivine on Mars 13 p2087 N84-23520
Research briefings for the Office of Science and Technology Policy, the National Science Foundation and selected federal departments and agencies, 1983
[PB84-161322] 14 p2124 N84-23732
The Duffek intrusion of Antarctica and a survey of its minor metals related to possible resources 14 p2161 N84-23943
Crystallization of the Duffek intrusion, Antarctica 14 p2161 N84-23944
An isotopic and chemical study of Lake Vanda and Don Juan Pond, Antarctica 14 p2163 N84-23952
Petroleum source rock richness, type and maturity for four rock units on the Alaskan North Slope: Are they sources for the two oil types? 14 p2164 N84-23961
Geochemical detection of prospective petroleum areas in Arctic regions 14 p2166 N84-23972
Geochemical analyses, age dates, and flow-volume estimates for quaternary volcanic rocks, Southern Cascade Mountains, Washington
[DE84-007662] 15 p2368 N84-25211
Geochemistry and origin of regional dolomites
[DE84-008257] 15 p2369 N84-25214
Report on measurements of terrestrial radiation in the Schwandorf area and the radiological load of the river Naab
[GSF-A-6/83] 16 p2520 N84-26180
Chemical attenuation rates, coefficients, and constants in leachate migration. Volume 1: A critical review
[DE84-009432] 20 p3238 N84-30557
Proposed scientific activities for the Salton Sea scientific drilling project
[DE84-012256] 20 p3243 N84-30586
Hydrogeology, digital solute-transport simulation, and geochemistry of the Lower Cretaceous aquifer system near Baltimore, Maryland 21 p3425 N84-31726
Water geochemistry of hydrothermal systems, Wood River District, Idaho
[DE84-012190] 21 p3431 N84-31769
Geology and geochemistry of the Arctic prospect, Ambler District, Alaska 21 p3438 N84-31814
Geochemistry of oil shale leachates and interaction with geologic substrates, Piceance Creek Basin, Colorado 21 p3440 N84-31825
Geochemistry, age and strontium composition of late tertiary and quaternary basalts and andesites in western Nevada and their relation to geothermal potential
[DE84-012404] 21 p3444 N84-31852
The petrology, structure and geochemistry of an Archean terrane in the North Snowy Block, Beartooth Mountains, Montana 22 p3620 N84-32940
International Geoscience and Remote Sensing Symposium (IGARSS) 84. Remote sensing: From Research Towards Operational Use, volume 1
[ESA-SP-215-VOL-1] 23 p3764 N84-33857
The International Geoscience and Remote Sensing Symposium (IGARSS) 84. Remote sensing: From research towards operational use, volume 2
[NASA-CR-173978] 23 p3777 N84-33946
Chemical analysis of ions in rain water in natural regions: Correlations with aerosols in the atmosphere
[INPE-2856-PRE/395] 23 p3792 N84-34052
Preliminary chemical analysis of rain water in Cubatao: Ambient effects
[INPE-2857-PRE/396] 23 p3792 N84-34053

GEOCHRONOLOGY
On gravity from SST, geoid from SEASAT, and plate age and fracture zones in the Pacific
[E84-10025] 02 p0238 N84-11559
Sm-Nd isotopic systematics of the ancient Gneiss complex, southern Africa 11 p1678 N84-20950

Ion microprobe zircon geochronology of the Uivak Gneisses: Implications for the evolution of early terrestrial crust in the North Atlantic Craton
11 p1678 N84-20951
Geology and geochronology of the southeast border of the Bitterroot Dome: Implications for the structural evolution of the Mylonitic Carapace
13 p2014 N84-23065
Geology, geochemistry, and geochronology of volcanic rocks between Cuauhtemoc and La Junta, central Chihahua, Mexico 13 p2014 N84-23066
US Geological Survey Polar Research Symposium. Abstracts with program
[USGS-CIRC-911] 14 p2160 N84-23934
An isotopic and chemical study of Lake Vanda and Don Juan Pond, Antarctica 14 p2163 N84-23952
Climatic significance of lacustrine deposits around Lake Vanda and Don Juan Pond, Antarctica
14 p2163 N84-23953
Geochemical analyses, age dates, and flow-volume estimates for quaternary volcanic rocks, Southern Cascade Mountains, Washington
[DE84-007662] 15 p2368 N84-25211
Subalkaline basaltic magmatism of active ocean-continent transition zones
18 p2857 N84-28144
Peridotites of the Khizen Fault (Southeastern Pacific Ocean) 18 p2857 N84-28145
Fossil fuels 19 p3037 N84-29267
Minerals 19 p3038 N84-29268
Holocene sediments and evolution of the Indian River (Atlantic coast of Florida) 21 p3426 N84-31730
Age discrimination among basalt flows using digitally enhanced LANDSAT imagery — Saudi Arabia
[E84-10189] 21 p3430 N84-31760
Geology of the Portrerillos District, Atacama, Chile
21 p3438 N84-31811
Geochronology, paleomagnetism and petrology of the Upper Cenozoic Bruneau Formation in the Western Snake River Plain, Idaho 21 p3440 N84-31826
The petrology and geochemistry of the Yerington Batholith and the Ann-Mason Porphyry Copper Deposit, Western Nevada 21 p3441 N84-31828
The neogene stratigraphy of the Central Florida Panhandle 21 p3441 N84-31833
Geology of the Gualan and Southern Sierra de las Minas Quadrangles, Guatemala 21 p3441 N84-31834
Diagensis and deformation of the Madison Group, Colorado and Utah overthrust belt
22 p3620 N84-32838
Lower tertiary biostratigraphy and paleoecology of the Quilcene-Discovery Bay area, northeast Olympic Peninsula, Washington 22 p3621 N84-32843
Crystalline rocks of the Northeastern United States
[DE84-013673] 22 p3624 N84-32962

GEODESIC LINES
Geodesic cone antenna
[AD-P003408] 19 p3015 N84-29112
Closed geodesics for the Jacobi metric and periodic solutions of prescribed energy of natural Hamiltonian systems
[AD-A141654] 19 p3066 N84-29588

GEODESY
NT CELESTIAL GEODESY
Studies of satellite geodesy, Very Long Baseline Interferometry (VLBI) and geodetic measuring techniques
[BONN-MITT-65] 02 p0233 N84-11528
Interdisciplinary aspects of technical measurements
02 p0233 N84-11530
The role of the geoid in high precision geodesy and oceanography
[SER-A-96] 02 p0235 N84-11540
A contribution to 3D-operational geodesy. Part 3: OPERA, a multipurpose program for operational adjustment of geodetic observations of terrestrial type
[SER-B-264-PT-3] 02 p0235 N84-11541
Investigation of mathematical models to combine a terrestrial network with a satellite network — geodesy
[SER-C-274] 03 p0392 N84-12554
Comparative assessment of LANDSAT-4 MSS and TM data quality for mapping applications in the southeast
[E84-10040] 04 p0551 N84-13633
Fundamental astrometry today and tomorrow
05 p0634 N84-14185
Establishing observation equations by means of series expansion into eigenfunctions
[TUM-MITT-163] 05 p0739 N84-14851
LANDSAT-4 horizon scanner performance evaluation
[E84-10079] 07 p1022 N84-16626
Geodesy and Global Geodynamics
07 p1028 N84-16685
Geodesy and geotectonics 07 p1029 N84-16686
Physics of the Earth's interior
07 p1029 N84-16667
Reference coordinate systems for Earth dynamics: A preview 07 p1029 N84-16668
On the establishment and maintenance of a modern conventional terrestrial reference system
[NOAA-TR-NOS95-NGS-24] 07 p1029 N84-16672
Variational methods in Earth rotation
07 p1030 N84-16673
Theory of rotation of the rigid Earth
07 p1030 N84-16674
Computing tides, nutations and tidally-induced variations in the Earth's rotation rate for a rotating, elliptical Earth
07 p1030 N84-16675
Tidal effects in geodetic observations
07 p1030 N84-16676
Geodetic aspects of ESA projects, studies and investigations 07 p1030 N84-16677
Deformation 07 p1030 N84-16683
Spacetime operational geodesy
07 p1031 N84-16684
Geodetic reference frames 07 p1031 N84-16685
Global dynamics 07 p1031 N84-16686
Global displacement models 1
07 p1031 N84-16687
Global displacement models 2
07 p1031 N84-16688
Space research in the Netherlands
09 p1407 N84-19194
On generation, estimation, utilization, availability and compatibility aspects of geodetic and meteorological data
[AD-A135844] 10 p1436 N84-19388
National report of the Federal Republic of Germany on geodetic activities, 1979 - 1983 — conferences
[SER-B-265] 10 p1519 N84-19942
Horizontal geodesy control networks
10 p1519 N84-19943
The observation of artificial satellites and VLBI
10 p1519 N84-19946
The geodetic use of satellite observations
10 p1519 N84-19947
Mathematical theories, numerical investigations — geodesy 10 p1519 N84-19949
Physical geodesy 10 p1520 N84-19950
Earth tides 10 p1520 N84-19951
Recent crustal movements 10 p1520 N84-19952
Scientific activity in oceanography, 1979-1982
13 p2018 N84-23084
East Europe report: Scientific affairs
[JPRS-ESA-84-009] 14 p2136 N84-23802
Stochastic models for point manifolds
16 p2504 N84-26072
Detection of errors in the functional adjustment model
16 p2505 N84-26074
Problems of computing costs in decision problems
16 p2505 N84-26075
Variance-covariance components estimation by the adjustment of heterogeneous repetition measurements
[SER-C-282] 16 p2547 N84-26346
Equations of small oscillations for inertial navigation system taking into account Earth's ellipsoidality
17 p2643 N84-26909
Satellite Emission Range Inferred Earth Survey (SERIES) project
[NASA-CR-173728] 18 p2791 N84-27714
Vertical movements and magnetic variations before earthquakes 18 p2860 N84-28163
Application of recurrent formulas for solving main geodetic problems 18 p2861 N84-28166
Gravity computations at low altitudes
18 p2861 N84-28167
Investigation of the combination of geodetic point aggregations
[SER-C-285] 18 p2866 N84-28199
Reports on cartography and geodesy. Series 2: Translations, number 40
[ISSN-0469-4244] 19 p3039 N84-29279
Reports on cartography and geodesy. Series 2: Translations, number 41. Report on high precision gravimetry, volume 2
[ISSN-0469-4244] 19 p3043 N84-29306
A method for determining the magnitude of Earth's gravity
[AD-D011042] 19 p3054 N84-29383
The ERODYN and QRPIG computer programs
20 p3221 N84-30468
Geodynamics
[NASA-CP-2325] 20 p3222 N84-30475
Space research in Pakistan: A relentless pursuit
21 p3346 N84-31227
Geodetic graphs and convexity
21 p3425 N84-31729
Geodesy for the layman
[AD-A142764] 21 p3431 N84-31766

GEODETIC ACCURACY
Geodetic accuracy of LANDSAT-4 Multispectral Scanner and Thematic Mapper data 20 p3211 N84-30399
Radiometric calibration and geocoded precision processing of LANDSAT-4 Multispectral Scanner products by the Canada Centre for Remote Sensing
20 p3212 N84-30404
LANDSAT-4 MSS geometric correction: Methods and results 20 p3213 N84-30409

GEODETIC COORDINATES
Studies of satellite geodesy, Very Long Baseline Interferometry (VLBI) and geodetic measuring techniques
[BONN-MITT-65] 02 p0233 N84-11528
Investigation of mathematical models to combine a terrestrial network with a satellite network — geodesy
[SER-C-274] 03 p0392 N84-12554
Reports on cartography and geodesy, series 1: Original reports, no. 89
[ISSN-0469-4236] 07 p1018 N84-16602
Geodetic reference frames 07 p1031 N84-16685
Reports on cartography and geodesy, series 1: Original reports, number 90
[ISSN-0469-4236] 08 p1173 N84-17643
National report of the Federal Republic of Germany on geodetic activities, 1979 - 1983 — conferences
[SER-B-265] 10 p1519 N84-19942
Horizontal geodesy control networks
10 p1519 N84-19943
Precise leveling — geodetic surveys
10 p1519 N84-19944
Physical geodesy 10 p1520 N84-19950
On recent progress in and utilization of astrogeodetic-inertial and astrogeodetic-gradiometric gravity vector determination
[AD-A136263] 10 p1526 N84-19993
Assurance of unity of tests of semiconductor products
17 p2637 N84-25658
Investigation of the combination of geodetic point aggregations
[SER-C-285] 18 p2866 N84-28199
Reports on cartography and geodesy. Series 1: Original reports, number 91
[ISSN-0469-4236] 19 p3040 N84-29286
Relationships between ellipsoid parameters
19 p3040 N84-29288
Geodesy for the layman
[AD-A142764] 21 p3431 N84-31766

GEODETIC SATELLITES
NT GEOS 1 SATELLITE
NT GEOS 2 SATELLITE
Technique for producing a coherent sum of the data from P78-1, F2, and F4 satellites
[AD-A131965] 03 p0340 N84-12210
Error analysis for marine geodetic control using the global positioning system
[AD-A140566] 17 p2605 N84-26687
POPSAT: A candidate satellite system for solid Earth applications and sciences. Preliminary feasibility study. Volume 1: Summary
[ESA-CR(P)-1882-VOL-1] 17 p2614 N84-26735
POPSAT: A candidate satellite system for solid Earth applications and sciences. Preliminary feasibility study. Volume 2: Development program
[ESA-CR(P)-1882-VOL-2] 17 p2614 N84-26736
Analysis of POPSAT gravity model errors
[ESA-CR(P)-1883] 17 p2615 N84-26737
Satellite Doppler point positioning using the Navy Navigation Satellite System 19 p3039 N84-29281
First- and second-phase gravity field solutions based on satellite altimetry
[AD-A142256] 19 p3054 N84-29381
Accuracy requirements of space laser systems for geodetic applications 24 p3906 N84-34736
Center of mass correction and its confidence for the Precise Orbital Positioning Satellite (Popsat)
24 p3906 N84-34738

GEODETIC SURVEYS
African Doppler surveys (ADOS)
[AD-A131135] 02 p0240 N84-11574
Test and demonstration of Macrometer (TM) model V-1000 interferometric surveyor
[PB83-239103] 03 p0402 N84-12631
Geoid anomalies and fracture zones in the Pacific Ocean
[E84-10052] 05 p0696 N84-14572
Base line for determining local, small-scale vertical movements in Louisiana
[DE84-002589] 05 p0704 N84-14619
National report of the Federal Republic of Germany on geodetic activities, 1979 - 1983 — conferences
[SER-B-265] 10 p1519 N84-19942
Horizontal geodesy control networks
10 p1519 N84-19943
Precise leveling — geodetic surveys
10 p1519 N84-19944
The geodetic use of satellite observations
10 p1519 N84-19947
Physical geodesy 10 p1520 N84-19950

New developments in science, technology described. Specialized GEO-20 minicomputer system
14 p2136 N84-23803
Antarctic mapping and international coordination
14 p2160 N84-23935
Modeling the movement at the polar ice cap at the South Pole
14 p2164 N84-23957
Altimeter height measurement errors introduced by the presence of variable cloud and rain attenuation
17 p2716 N84-27289
Computation of a high resolution European Gravimetric Geoid (EGG 1)
17 p2727 N84-27356
Investigation of the combination of geodetic point aggregations
[SER-C-285] 18 p2866 N84-28199
African Doppler Surveys (ADOS)
[AD-A142738] 21 p3430 N84-31764
Direct measurement of Earth's vertical deflection using global positioning system
[AD-D011099] 22 p3534 N84-32373
Mojave base station implementation
22 p3575 N84-32643
Accuracy requirements of space laser systems for geodetic applications
24 p3906 N84-34736

GEODIMETERS
Investigation of the distancemeter Geodimeter 122 and the Autoranger-A
02 p0234 N84-11537
Advanced techniques of laser telemetry
06 p0906 N84-15883

GEODYNAMICS
The NASA Geodynamics Program: An overview
[NASA-TP-2147] 01 p0104 N84-10675
Geodynamics Branch research report, 1982
[NASA-TM-85078] 02 p0233 N84-11527
The Telecommunications and Data Acquisition Report
[NASA-CR-174610] 04 p0518 N84-13401
Satellite-tracking and Earth dynamics research programs
[NASA-CR-173182] 07 p0962 N84-16233
Geodesy and Global Geodynamics
07 p1028 N84-16665
Physics of the Earth's interior
07 p1029 N84-16667
Comments on conventional terrestrial and quasi-inertial reference systems
07 p1029 N84-16669
Effects of adopting new precession, nutation and equinox corrections on the terrestrial reference frame
07 p1029 N84-16670
Deformation
07 p1030 N84-16683
Spacetime operational geodesy
07 p1031 N84-16684
Geodetic reference frames
07 p1031 N84-16685
Global dynamics
07 p1031 N84-16686
Global displacement models 1
07 p1031 N84-16687
Global displacement models 2
07 p1031 N84-16688
Basic research for the geodynamics program
[NASA-CR-175337] 07 p1032 N84-16699
The importance of radio interferometry for geodynamics
08 p1173 N84-17644
The mobile laser ranging system and its planned use in the framework of international research on geodynamics
08 p1174 N84-17649
Earth strain measurements with the transportable laser ranging system: Field techniques and planning
[NASA-CR-175150] 08 p1186 N84-17725
The construction of a highly transportable laser ranging station
[NASA-CR-175400] 10 p1500 N84-19803
Mathematical theories, numerical investigations — geodesy
10 p1519 N84-19949
Recent crustal movements
10 p1520 N84-19952
Structural variation of proterozoic dikes in central Superior Province: A possible reflection of post-Archean shield deformation
11 p1678 N84-20954
DBMS as a tool for project management
11 p1749 N84-21416
Geologic investigations of outer planets satellites
[NASA-CR-173497] 13 p2091 N84-23544
Discussion of the design of satellite-laser measurement stations in the eastern Mediterranean under the geological aspect. Contribution to the earthquake prediction research by the Wegener Group and to NASA's Crustal Dynamics Project
[NASA-TM-77412] 14 p2175 N84-24031
The status of the simple fluid
15 p2314 N84-24886
Investigation of dynamic noise affecting geodynamics information in a tethered subsatellite
[NASA-CR-173558] 15 p2319 N84-24923
The telecommunications and data acquisition report
[NASA-CR-173565] 16 p2478 N84-25889
Magnetohydrodynamic generator helps predict earthquakes
17 p2700 N84-27199
Geoacoustic method for continuous monitoring of stressed-strained state of Earth's crust
17 p2706 N84-27231
Seismic tomography of the Earth's interior
18 p2879 N84-28278
High precision measurements in crustal dynamic studies
[NASA-CR-173680] 18 p2879 N84-28279
Reports on cartography and geodesy. Series 1: Original reports, number 91
[ISSN-0469-4236] 19 p3040 N84-29286
Research activities of the Geodynamics Branch
[NASA-TM-86123] 20 p3220 N84-30455
Update: San Andreas Fault experiment
20 p3220 N84-30456
Crustal deformation and earthquakes
20 p3220 N84-30457
Results of laser ranging collocations during 1983
20 p3220 N84-30458
A comparison between Lageos laser ranging and VLBI determined baselines
20 p3220 N84-30459
Geodynamics of crustal deformation and seismotectonic block movements in central Europe
20 p3220 N84-30460
Analysis of the Earth's variable rotation
20 p3221 N84-30462
SEASAT observations of lithospheric flexure
20 p3221 N84-30463
Geodyn systems development
20 p3221 N84-30467
Geodynamics
[NASA-CP-2325] 20 p3222 N84-30475
Geodynamics: Introduction and background
20 p3222 N84-30476
Projection for space geodynamics, 1988-1998
20 p3222 N84-30477
Recommended program activities, 1988-1998
20 p3223 N84-30478
MULAP4: A multi-linear analysis program for ground motion studies of horizontally layered systems
[PB84-182815] 20 p3243 N84-30591
Analysis of Laramide and younger deformation of a segment of the Big Bend region, Texas
23 p3794 N84-34060
Space laser applications in geophysics
24 p3903 N84-34719
Space/Airborne Laser Ranging (SALR) as complement to groundbased transportable Satellite Laser Ranging (SLR) — crystal dynamics
24 p3906 N84-34742
Andean tectonics: Implications for Satellite Geodesy
[NASA-TM-86160] 24 p3919 N84-34809

GEOELECTRICITY
Report of the geomagnetic and geoelectric observations, 1982 (rapid variations)
[KMO-23] 20 p3240 N84-30567

GEOFABRICS
U GEOTECHNICAL FABRICS

GEOFRACTURES
U GEOLOGICAL FAULTS

GEOGRAPHIC INFORMATION SYSTEMS
Mapping land use in Catalonia (Spain) — using LANDSAT imagery
03 p0400 N84-12613
An inventory of state natural resources information systems — including Puerto Rico and the U.S. Virgin Islands
[E84-10072] 07 p1020 N84-16619
APPS-4 (Analytical Photogrammetric Processing System-4) remote sensing applications guide
[AD-A134977] 08 p1178 N84-17676
Geography information systems project
[INPE-2782-PRE/348] 08 p1239 N84-18100
Review and synthesis of problems and directions for large scale geographic information system development
[NASA-CR-166563] 10 p1525 N84-19988
Remote sensing training for Corps of Engineering personnel: The university training module concept
[NASA-CR-175204] 10 p1549 N84-20154
Survey of automated statewide natural resource information systems
[AD-A139017] 14 p2170 N84-23896
Contour-to-grid transformation: Development of a method for generation of a sparse grid structure out of terrain elevation contours
[FOA-C-30349-E1] 15 p2359 N84-25156
A geographic information system for forest management
[FOA-C-20531-D6] 15 p2418 N84-25516
Geocoded data structures and their applications to Earth science investigations
[NASA-TM-86113] 24 p3968 N84-35127

GEOGRAPHY
NT HYPSOGRAPHY
NT OROGRAPHY
Hexagonal data base study
[AD-A135532] 08 p1212 N84-17907
Passive solar design procedures for Naval installations
[AD-A136329] 09 p1341 N84-18760
Geographic operators for management of a data base for frequency planning — geographic data base for radio mobile systems
10 p1476 N84-19646
Global temperature patterns 6000 years ago
[DE84-004209] 10 p1537 N84-20072
Design for and efficient dynamic climate model with realistic geography
12 p1856 N84-22092
Diagnosis of the GLAS climate model's stationary planetary waves using a linearized steady state model
12 p1856 N84-22095
Graphic design for computer-based information management: A case study of Seedis
[DE84-005873] 12 p1919 N84-22505
Representing and acquiring geographic knowledge
[AD-A139308] 14 p2169 N84-23994
A computer program for mapping regions in a geographic data base with raster structure
[FOA-C-20529-D6] 15 p2390 N84-25340
Astronautics and aeronautics, 1976. A chronology
[NASA-SP-4021] 15 p2431 N84-25602
Overview of ultraviolet remote sensing of the ionosphere
[AD-A141533] 19 p3041 N84-29294
Computer-aided mapping in the USA: Experiences from a study tour in November 1983
[FOA-C-20533-D6] 19 p3042 N84-29304
Global Biology Research Program: Biogeochemical Processes in Wetlands
[NASA-CP-2316] 20 p3256 N84-30665
Geographic distribution of wetland parameters: The foundation of a data base
20 p3256 N84-30667
Report on functional design specification for the automated alphanumeric data entry system
[AD-A142518] 20 p3266 N84-30725
Advanced data structure and geographic information systems
21 p3427 N84-31742
Knowledge based engineering for spatial database management and use
21 p3428 N84-31745
Paleogeography and tectonics of the Redding section, Eastern Klamath Belt, Northern California
23 p3796 N84-34070

GEOIDS
Determination of a geoid profile across the Alps using Doppler measurements of the US Navy Navigation Satellite System (NNSS)
02 p0234 N84-11534
The role of the geoid in high precision geodesy and oceanography
[SER-A-96] 02 p0235 N84-11540
On gravity from SST, geoid from SEASAT, and plate age and fracture zones in the Pacific
[E84-10025] 02 p0238 N84-11559
Accuracy of gravimetrically determined absolute and relative geoid heights
[SER-A-97] 03 p0407 N84-12661
Geoid anomalies and fracture zones in the Pacific Ocean
[E84-10052] 05 p0696 N84-14572
On the utilization of ionospheric diagnostics in the single-site location of HF emitters
06 p0870 N84-15661
The delineation and interpretation of the Earth's gravity field
[NASA-CR-173310] 08 p1185 N84-17722
Geodetic astronomy
10 p1519 N84-19945
Geodetic use of GEOSAT-A
[AD-A137993] 13 p2011 N84-23048
Relating geoid anomalies, gravity anomalies and ocean topography
[AD-A140112] 15 p2354 N84-25127
Lower mantle heterogeneity, dynamic topography and the geoid
[NASA-CR-173621] 16 p2521 N84-26184
The influence of actual and apparent geoid error on ocean analysis and prediction
17 p2721 N84-27318
A European astro-gravimetric geoid
[SER-B-269] 17 p2727 N84-27355
Computation of a high resolution European Gravimetric Geoid (EGG 1)
17 p2727 N84-27356
The computation of an astrogravimetric geoid by adjustment
17 p2727 N84-27357
An algorithm to compute the geoid surface
[IOS-168] 18 p2881 N84-28290
Global mean sea surface based upon SEASAT altimeter data
20 p3222 N84-30470
MAGSAT correlations with geoid anomalies — western Gulf of Mexico
[E84-10174] 21 p3427 N84-31736
MAGSAT correlations with geoid anomalies — magnetic anomalies in the western Gulf of Mexico
[E84-10190] 22 p3613 N84-32894

GEOLOGICAL FAULTS
On gravity from SST, geoid from SEASAT, and plate age and fracture zones in the Pacific
[E84-10025] 02 p0238 N84-11559

Compilation of selected faults and lineaments that may be relevant to a study of seismic activity in southern Nevada and part of adjacent California
[DE83-017085] 03 p0409 N84-12673
Geology of faults exposed in trenches in Crater Flat, Nye County, Nevada
[DE84-000181] 04 p0564 N84-13716
Combined use of remote sensing and seismic observations to infer geologically recent crustal deformation, active faulting, and stress fields --- California and Pennsylvania
[E84-10057] 06 p0864 N84-15628
A renormalization group model for the stick-slip behavior of faults
[NASA-CR-173362] 09 p1344 N84-18782
The Pikwitonei granulite domain: A lower crustal level along the Churchill-Superior boundary in central Manitoba 11 p1680 N84-20967
The Archean crust in the Wawa-Chapleau-Timmins region. A field guidebook prepared for the 1983 Archean Geochemistry-Early Crustal Genesis Field Conference 11 p1681 N84-20969
Tectonic deformation of the Andes and the configuration of the subducted slab in central Peru: Results from a micro-seismic experiment
[NASA-CR-175445] 11 p1681 N84-20972
Volcanism and rift formation in Beta Regio, Venus: New radar results 11 p1754 N84-21450
Age and evolution of the Yukon-Tanana Terrane, southeastern Yukon Territory 13 p2013 N84-23060
Neotectonics of the north frontal fault system of the San Bernardino Mountains, southern California: Cajon Pass to Lucerne Valley 13 p2013 N84-23061
Geology, geochemistry, and geochronology of volcanic rocks between Cuauhtemoc and La Junta, central Chihahua, Mexico 13 p2014 N84-23066
Structure of the Brevard Zone and Blue Ridge near Lenoir, North Carolina, with observations on oblique crenulation cleavage and a preliminary theory for irrotational structures in shear zones 13 p2014 N84-23067
Ice-covered volcanic water flows on Ganymede 13 p2073 N84-23432
Relationships and tectonics of the Jg-7 quadrangle of Ganymede 13 p2091 N84-23542
Summary of workshops concerning regional seismic source zones of parts of the conterminous United States convened by the US Geological Survey 1979 - 1980, Golden, Colorado
[USGS-CIRC-898] 14 p2174 N84-24025
Geophysical investigations of a geothermal anomaly at Wadi Ghadir, eastern Egypt
[NASA-CR-173527] 14 p2175 N84-24030
The source of Mangaila Vales 15 p2426 N84-25573
Seismic model of Earth's crust in southern Sea of Okhotsk region and some results of its geological inerpretation 17 p2701 N84-27207
Changes in relative instantaneous spreading rates in the Indian Ocean 18 p2858 N84-28149
Tectonic and magmatic rock of central Pacific Ocean 18 p2858 N84-28150
Relationship between residual displacements, strains and tilts of Earth's surface and earthquake focus characteristics 18 p2862 N84-28174
High precision measurements in crustal dynamic studies
[NASA-CR-173680] 18 p2879 N84-28279
Earthquake hazards 19 p3038 N84-29270
Geology of the Portrerillos District, Atacama, Chile 21 p3438 N84-31811
The use of infrared imagery in the study of fault zones
[INPE-3143-PRE/529] 21 p3443 N84-31845
A comparative study of different products of sensor systems applied in a lithologic-structural analysis of the Quadrilatero Ferrifero area, Minas Gerais
[INPE-3210-TDL/174] 23 p3764 N84-33856
Analysis of Laramide and younger deformation of a segment of the Big Bend region, Texas 23 p3794 N84-34060
Interpretations of magnetic anomalies at a potential repository site located in the Yucca Mountain area, Nevada test site
[DE84-013723] 23 p3798 N84-34085
Strain release along ocean transform faults 24 p3918 N84-34804
Geophysical interpretation of satellite laser ranging measurements of crustal movement in California
[NASA-TM-86148] 24 p3919 N84-34808

GEOLOGICAL SURVEYS

Contribution of LANDSAT-4 thematic mapper data to geologic exploration
[E84-10021] 02 p0237 N84-11557
A study of Minnesota land and water resources using remote sensing
[E84-10023] 02 p0237 N84-11558
On the genesis of hydrocarbons in the German Alpine foreland
[BMFT-FB-T-83-103] 02 p0250 N84-11837
Compilation of selected faults and lineaments that may be relevant to a study of seismic activity in southern Nevada and part of adjacent California
[DE83-017085] 03 p0409 N84-12673
Kriging of geological and physical parameters from Yucca Flat, NTS
[DE83-018227] 04 p0550 N84-13625
Geologic survey in the south-central region of Mato Groeso
[E84-10039] 04 p0551 N84-13632
Uranium anomalies in Wyoming and parts of adjacent states. National Uranium Resource Evaluation
[DE83-005353] 06 p0866 N84-15638
Use of radar image texture in geologic mapping 07 p0988 N84-16402
Evaluation of thermal data for geologic applications
[NASA-CR-173211] 07 p1033 N84-16703
Chromium
[PB84-100882] 08 p1136 N84-17385
The Marine Geology Program of the US Geological Survey
[USGS-CIRC-906] 11 p1677 N84-20944
Earthquakes in the United States, January - March 1982
[USGS-CIRC-896-A] 11 p1677 N84-20945
Characterization of surficial geologic units on Venus from Pioneer Venus radar data: A progress report 13 p2076 N84-23454
US Geological Survey Polar Research Symposium. Abstracts with program
[USGS-CIRC-911] 14 p2160 N84-23934
Surveying in Antarctica during the International Geophysical Year 14 p2161 N84-23942
The Duffek intrusion of Antarctica and a survey of its minor metals related to possible resources 14 p2161 N84-23943
Petroleum source rock richness, type and maturity for four rock units on the Alaskan North Slope: Are they sources for the two oil types? 14 p2164 N84-23961
Emerging recognition of the nonfuel mineral resources of Arctic Alaska 14 p2164 N84-23962
Coal occurrence, quality and resource assessment, national petroleum reserve in Alaska 14 p2164 N84-23963
A pleistocene sand desert in Arctic Alaska 14 p2165 N84-23966
Land cover and terrain mapping for the development of digital data bases for wildlife habitat assessment in the Yukon Flats National Wildlife Refuge, Alaska 14 p2166 N84-23971
Summary of workshops concerning regional seismic source zones of parts of the conterminous United States convened by the US Geological Survey 1979 - 1980, Golden, Colorado
[USGS-CIRC-898] 14 p2174 N84-24025
Earthquakes in the United States, April - June 1982
[USGS-CIRC-896-B] 14 p2175 N84-24026
Potential utility of future satellite magnetic field data
[NASA-CR-175230] 15 p2279 N84-24691
Geochemical analyses, age dates, and flow-volume estimates for quaternary volcanic rocks, Southern Cascade Mountains, Washington
[DE84-007662] 15 p2368 N84-25211
Field data observed during the geological excursion in the west-central region of the Sul-Riogrande Shield
[E84-10146] 16 p2508 N84-26094
Field studies in the structural society project: Mineralized lineaments
[INPE-2876-NTE/205] 17 p2726 N84-27352
Chapter 6: The US Geological Survey program and plans in the EEZ 18 p2866 N84-28193
Analysis of LANDSAT-4 TM data for lithologic and image mapping purpose 20 p3209 N84-30390
Preliminary geologic/spectral analysis of LANDSAT-4 Thematic Mapper data, Wind River/Bighorn basin area, Wyoming 20 p3213 N84-30413
Stratigraphic and volcano-tectonic relations of Crater Flat Tuff and some older volcanic units, Nye County, Nevada
[DE84-010926] 20 p3242 N84-30584
Environmental geologic studies on the United States mid- and north Atlantic outer continental shelf area, 1980-1982. Volume 1: Executive summary
[PB84-187939] 20 p3252 N84-30639
Environmental geologic studies on the United States mid-and north Atlantic outer continential shelf area, 1980-1982. Volume 3: North Atlantic region
[PB84-187954] 20 p3252 N84-30641
Low temperature geothermal resource evaluation of the Moses Lake-Ritzville-Connell area, Washington
[DE84-012505] 21 p3432 N84-31773
Origin and evolution of the West Philippine Basin 21 p3439 N84-31820
The use of infrared imagery in the study of fault zones
[INPE-3143-PRE/529] 21 p3443 N84-31845
Geology and origin of the Aquila iron deposit in southwestern Michoacan, Mexico 22 p3613 N84-32890
Assessment of low-temperature geothermal resources of the United States, 1982
[DE84-007193] 22 p3615 N84-32902
Laser remote sensing measurements of natural target reflectivities 23 p3782 N84-33963
Demonstration of an active airborne IR laser system for geologic remote sensing 23 p3782 N84-33964
Crystalline rocks of the Lake Superior region, United States, part 2
[DE84-014802] 23 p3799 N84-34057
The geologic study of Taiwan area following up the acquisition of Taiwan SLAR imagery 24 p3957 N84-35051
The geologic and geophysical study of the Hengchung Peninsula, southern Taiwan, 1 24 p3957 N84-35052

GEOLOGY

NT CROSSBEDDING (GEOLOGY)
NT GEOCHRONOLOGY
NT GEOMORPHOLOGY
NT GLACIOLOGY
NT HYDROGEOLOGY
NT LITHOLOGY
NT LUNAR GEOLOGY
NT MARS VOLCANOES
NT OROGRAPHY
NT PETROGRAPHY
NT PETROLOGY
NT PHOTOGEOLOGY
NT RADAR GEOLOGY
NT STRUCTURAL PROPERTIES (GEOLOGY)
NT TECTONICS
NT VOLCANOES
NT VOLCANOLOGY
Geologic map and mineral resources summary of the Farner Quadrangle, Tennessee and North Carolina
[DE83-902866] 02 p0240 N84-11578
Relationship of characteristics of the research methods used in two subfields of geology and the growth of published research in those subfields 02 p0245 N84-11606
Significant results from the HCMM program 05 p0896 N84-14568
Research and technology at the Lyndon B. Johnson Space Center
[NASA-TM-58257] 05 p0758 N84-14973
Theoretical and empirical terrestrial heat flow studies 06 p0875 N84-15696
Martian surface properties
[NASA-CR-173197] 07 p1091 N84-17091
Defense, energy, and basic research at the Los Alamos National Laboratory
[DE83-015241] 07 p1094 N84-17116
Water resources data for Alaska, water year 1982
[PB84-119569] 09 p1340 N84-18753
Water resources data for Utah, water year 1982
[PB84-120484] 09 p1340 N84-18756
Great Lakes coastal geology: Stratigraphy and bluff recession along the Lake Erie coast, New York
[PB84-128933] 10 p1536 N84-20075
Abrasion by aeolian particles: Earth and Mars
[NASA-CR-3788] 11 p1628 N84-20654
Development of the Earth's early crust: Implications from the Beartooth Mountains 11 p1879 N84-20959
The Archean crust in the Wawa-Chapleau-Timmins region. A field guidebook prepared for the 1983 Archean Geochemistry-Early Crustal Genesis Field Conference 11 p1681 N84-20969
Performance evaluation and geologic utility of LANDSAT-4 TM and MSS data
[E84-10099] 12 p1828 N84-21918
Geology of Dione 13 p2074 N84-23444
The Corfu landslide: Analog to giant landslides on Mars 13 p2086 N84-23513
Interpretation of planetary stress systems: Determination of tectonic over-printing in Northwest Wyoming 13 p2090 N84-23540
The geology of Thaumasia-northeast quadrant 15 p2427 N84-25579
The geology of Mare Acidalium quadrangle Mars 15 p2428 N84-25582
New variant of evaluation of predicted petroleum and as reserves on genetic basis 17 p2703 N84-27219
Possibilities of studying inelastic properties and characteristics of medium inhomogeneity using spectra of scattered waves 17 p2706 N84-27230
Genetic types of geological bodies of sedimentary mantle (based on seismic profiling data) 18 p2861 N84-28165
Gravity computations at low altitudes 18 p2861 N84-28167

Yearbook of the Bureau of Mineral Resources, Geology and Geophysics, Canberra, 1 July 1982 - 30 June 1983
[BMR-83] 19 p3037 N84-29266
National and international geoscience maps
19 p3038 N84-29271
Overseas programs 19 p3038 N84-29272
Geology 20 p3218 N84-30442
Inevitable climatic changes 20 p3223 N84-30480
Geotechnical and geologic design considerations for a shelf mounted OTEC (Ocean Thermal Energy Conversion) facility
[PB84-186147] 20 p3238 N84-30554
An assessment of methods of geological basin analysis for application to the Uinta and Piceance Basins
[DE84-012369] 20 p3242 N84-30581
Proposed scientific activities for the Salton Sea scientific drilling project
[DE84-012256] 20 p3243 N84-30586
Environmental geologic studies on the United States mid-and north Atlantic outer continential shelf area, 1980-1982. Volume 3: North Atlantic region
[PB84-187954] 20 p3252 N84-30641
Geological and geothermal investigation of the lower Wind River valley southwestern Washington Cascade Range
[DE84-012545] 21 p3431 N84-31771
The geology and petroleum resources of basins in the Asian Arctic and offshore east Greenland
[DE84-012114] 21 p3431 N84-31772
Geology, hydrology, and mineral resources of crystalline rock areas of the Lake Superior region, US, part 1 — Michigan, Wisconsin, and Minnesota
[DE84-012682] 21 p3432 N84-31775
Lineaments of Texas: Possible surface expressions of deep-seated phenomena
[DE84-010827] 21 p3445 N84-31858
Seismological studies of the continental lithosphere
[PB84-194752] 21 p3446 N84-31862
Geology, hydrology, and mineral resources of crystalline rock areas of the northeastern United States
[DE84-013672] 22 p3614 N84-32901
Geology, petrology and geochronology of the metamorphic rocks of Meatiq Dome, Central Eastern Desert, Egypt 22 p3621 N84-32942
Summary of geothermal exploration activity in the State of Washington from 1978 - 1983
[DE84-014863] 23 p3784 N84-33999
Guide to the geology of Australia
[BMR-BULL-181] 23 p3797 N84-34076
Crystalline rocks of the Lake Superior region, United States, part 2
[DE84-014802] 23 p3799 N84-34087
Catalog of existing published periodicals of INPE, Volume 7
[INPE-2886-NTE/206] 23 p3834 N84-34320

GEOMAGNETIC ANOMALIES
U MAGNETIC ANOMALIES

GEOMAGNETIC CROTCHETS
U SUDDEN IONOSPHERIC DISTURBANCES

GEOMAGNETIC EFFECTS
U MAGNETIC EFFECTS

GEOMAGNETIC EQUATOR
U MAGNETIC EQUATOR

GEOMAGNETIC FIELD
U GEOMAGNETISM

GEOMAGNETIC PULSATIONS
Geomagnetic pulsations-production/interpretation
[AD-A131446] 02 p0249 N84-11629
Observations of short period magnetic pulsations during the SBARMO-79 campaign: Data summary
[REPT-90/1982] 13 p2012 N84-23052
Quick-look tables of continuous pulsations (Pc1) and intervals of Pulsations of Diminishing Periods (IPDP) magnetic pulsation events recorded in Finland during IMS years 1976-1979: Data summary
[REPT-92/1982] 13 p2012 N84-23053
A study of geomagnetic pulsations using the AFGL (Air Force Geophysics Laboratory) magnetometer network
[AD-A140507] 16 p2526 N84-26217

GEOMAGNETIC STORMS
U MAGNETIC STORMS

GEOMAGNETIC TAIL
Observation of multiple ion beams in the magnetotail low latitude boundary layer. Evidence for a double H+ population
[IFSI-82-10] 03 p0409 N84-12676
The structure of the plasma sheet-lobe boundary in the Earth's magnetotail
[NASA-TM-85434] 03 p0463 N84-13049
The Active Magnetospheric Particle Tracer Explorers (AMPTE) program 05 p0641 N84-14216
Plasma confinement and interaction experiments — Active Magnetospheric Particle Tracers Explorers mission 05 p0641 N84-14218
Active experiments and single ion motion in the magnetotail 05 p0641 N84-14219
Further analysis of plasma bursts in high-latitude boundary layer of earth 19 p2973 N84-28847
Solar Terrestrial Physics: Present and Future
[NASA-RP-1120] 23 p3836 N84-34332
Reconnection of magnetic fields
23 p3836 N84-34333

GEOMAGNETICALLY TRAPPED PARTICLES
U RADIATION BELTS

GEOMAGNETISM
High-altitude observations of an intense inverted-V event
[NASA-CR-174468] 01 p0104 N84-10678
Currents in the Earth's magnetotail
[NASA-CR-174467] 01 p0104 N84-10679
High-latitude F-region irregularities: Intensity and scale size distributions
[AD-A130889] 01 p0105 N84-10684
Recursive analysis of the geomagnetic vector field
[INPE-2865-PRE/400] 02 p0272 N84-11776
Solar-Geophysical Data number 465, May 1983. Part 1: Prompt reports. Data for April and March 1983, and late data
[PB83-228544] 02 p0305 N84-12005
Guidance of electromagnetic waves in the ionosphere and magnetosphere
[IFSI-82-15] 03 p0363 N84-12361
A comparison between GEOS 1 magnetic field measurements and some models of the geomagnetic field
[IFSI-82-5] 03 p0409 N84-12675
Solar wind variations in the 60-100 year period range: A review 03 p0469 N84-13092
Interpretation of aeromagnetic anomalies of the Quadrilatero Ferrifero region
[INPE-2897-PRE/416] 04 p0562 N84-13707
An analysis of pC-3 micropulsion in the geomagnetic field
[AD-A132443] 04 p0563 N84-13709
Ionospheric irregularities and geomagnetic field fluctuations due to ionospheric heating
05 p0636 N84-14184
Report on new calculations of the magnetic potential of the Earth
[NASA-TM-77329] 05 p0702 N84-14606
Application of the maximum entropy method to the spectral analysis of geophysics data. Results of some preliminary tests on theoretical series
[IFSI-82-1] 05 p0705 N84-14626
The programs used to compare the predictions of some geomagnetic models with the measurements from the experiment S-331 onboard the GEOS-1 satellite
[IFSI-82-2] 05 p0705 N84-14627
Investigation of antarctic crust and upper mantle using MAGSAT and other geophysical data
[E84-10055] 06 p0864 N84-15627
Magnetic anomalies in east Pacific using MAGSAT data
[E84-10060] 06 p0864 N84-15630
Geophysical data from drifting ice stations FRAM 4 and TRISTEN
[AD-A133370] 06 p0866 N84-15640
The elements of the Earth's magnetism for the Epochs 1600, 1650, 1700, 1780, 1842 and 1885, and their secular changes derived from observations calculated using the coefficients of the Gaussian 'General Theory of Earth's Magnetism'
[NASA-TM-77100] 07 p1033 N84-16700
On the determination of the coefficients of the Gaussian general theory of the Earth's magnetism for the year 1885 and about the relationship of the three Earth-magnetic elements
[NASA-TM-77105] 07 p1033 N84-16701
The magnetic state of the Earth (according to the magnetic maps for 1880.0 published by the German Naval Office)
[NASA-TM-77058] 07 p1033 N84-16702
Auroral ion acceleration
[PR-783] 08 p1184 N84-17715
Possibility of investigation of Kimberlite pipes by superconductive geomagnetic variation measuring stations
[CSIR-TRANS-1701] 08 p1185 N84-17724
The magnetic state of the Earth at epoch 1885.0
[NASA-TM-77342] 09 p1343 N84-18774
The changing world of geomagnetism: A brief history relating to magnetic observatories
09 p1343 N84-18776
Solar-geophysical data number 468, August 1983. Part 1. (Prompt reports). Data for July 1983, June 1983 and late data
[PB84-116573] 09 p1417 N84-19270
Solar-geophysical data number 469, September 1983. Part 1: (Prompt reports. Data for August 1983, July 1983 and late data)
[PB84-125913] 09 p1417 N84-19273
Plasma sheet behavior during substorms
[DE84-003633] 10 p1537 N84-20070
Implications of the 1100 UT 22 March, 1979 CDAW 6 substorm event for the role of magnetic reconnection in the geomagnetic tail
[DE84-004335] 10 p1537 N84-20071
Proceedings of Aeromagnetic Data Workshop
[PB84-127125] 10 p1538 N84-20077
A study of low energy electron precipitations and auroral phenomena by using the USAF polar orbiting satellites
[AD-A137888] 11 p1682 N84-20979
Longitudinal extent of the characteristics of the equatorial electrojet
[INPE-3027-PRE/465] 12 p1847 N84-22038
Analysis of spacecraft charging, particle beams and geophysical data bases
[AD-A138632] 13 p1940 N84-22616
Use of MAGSAT anomaly data for crustal structure and mineral resources in the US midcontinent
[E84-10112] 13 p2005 N84-23005
Coherence study of geomagnetic fluctuations in frequency range .04 - 0.6 HZ between remote land sites
[AD-A138542] 13 p2011 N84-23042
The geomagnetic elements in Denmark 1926-1980
[ISBN-87-7478-219-3] 14 p2174 N84-24024
Potential utility of future satellite magnetic field data
[NASA-CR-175230] 15 p2279 N84-24691
Euro-African MAGSAT anomaly-tectonic observations
15 p2355 N84-25129
Reduced to pole long-wavelength magnetic anomalies of Africa and Europe 15 p2355 N84-25132
Satellite magnetic anomalies of Africa and Europe
15 p2356 N84-25133
Relation of MAGSAT anomalies to the main tectonic provinces of South America 15 p2356 N84-25137
Relation of MAGSAT and gravity anomalies to the main tectonic provinces of South America
15 p2357 N84-25138
Magnetic roll/yaw attitude control of a momentum biased near polar orbit satellite
[MBB-UR-629-83-O] 16 p2561 N84-26432
Magnetopause merging site asymmetries
16 p2573 N84-26513
The geomagnetosystem: Charged particle trajectories in the geomagnetic tail 16 p2581 N84-26556
Allowance for geomagnetic field variations and tie-in of observations in highly precise aeromagnetic surveys
17 p2704 N84-27221
Possible sources of irregular geomagnetic variations
17 p2704 N84-27223
Influence of electric fields on potential waves in Earth's magnetosphere 17 p2705 N84-27225
Physical nature of geomagnetic microbays
17 p2706 N84-27232
New book discusses normal geomagnetic field
18 p2859 N84-28156
Spectral approach to interpretation of electromagnetic anomalies in case of E-polarization
18 p2859 N84-28158
Separating normal and anomalous fields using measurements in limited area 18 p2859 N84-28159
Vertical movements and magnetic variations before earthquakes 18 p2860 N84-28163
New types of transient processes observed in electromagnetic sounding 18 p2860 N84-28164
Motion of virtual geomagnetic pole
18 p2862 N84-28173
Specifics of development of long-term variations in anomalous geomagnetic field on Crimean peninsula
18 p2863 N84-28179
Petrologic and geophysical sources of long-wavelength crustal magnetic anomalies
[NASA-CR-175245] 18 p2878 N84-28276
Magnetic results 1982: Eskdalemuir, Hartland and Lerwick Observatories
[BULL-15] 18 p2880 N84-28289
Diffuse auroral zone. Part 7: Dynamics of equatorial boundary in field of diffuse electron spill in evening sector 19 p2973 N84-28846
Minerals 19 p3038 N84-29268
Overview of ultraviolet remote sensing of the ionosphere
[AD-A141533] 19 p3041 N84-29294
Thule Geophysical Observatory: Magnetic results, 1978
[ISBN-87-7478-211-8] 19 p3053 N84-29372
Godhavn Geophysical Observatory: Magnetic results, 1977
[ISBN-87-7478-213-4] 19 p3055 N84-29385
Thule Geophysical Observatory: Magnetic results, 1975
[ISBN-87-7478-206-1] 19 p3055 N84-29386
Thule Geophysical Observatory: Magnetic results, 1976
[ISBN-87-7478-208-8] 19 p3055 N84-29387

Thule Geophysical Observatory: Magnetic results, 1977
[ISBN-87-7478-209-6] 19 p3055 N84-29388
Thule Geophysical Observatory: Magnetic results, 1979
[ISBN-87-7478-214-2] 19 p3055 N84-29389
Cosmic rays, solar activity, magnetic coupling, and lightning incidence
[NASA-CR-3812] 19 p3057 N84-29397
Geodynamics
[NASA-CP-2325] 20 p3222 N84-30475
Projection for space geodynamics, 1988-1998 20 p3222 N84-30477
Report of the geomagnetic and geoelectric observations, 1982 (rapid variations)
[KMO-23] 20 p3240 N84-30567
Derivation of crustal magnetic anomalies from MAGSAT
[REPT-609] 20 p3240 N84-30569
Solar-geophysical data number 473. Part 1: (Prompt reports) data for December 1983, November 1983 and late data
[PB84-180611] 20 p3320 N84-31073
Solar-geophysical data number 473. Part 2: (Comprehensive reports) data for July 1983, March 1981 and miscellanea
[PB84-180629] 20 p3320 N84-31074
Solar-geophysical data prompt reports, February 1984, number 474. Part 1: Data for January 1984, December 1983 and late data. Explanation of data reports issued as number 474 (supplement) February 1984
[PB84-188689] 20 p3320 N84-31076
Solar-geophysical data explanation of reports, February 1984, number 474, supplement
[PB84-188697] 20 p3320 N84-31078
The near-Earth magnetic field at 1980 determined from MAGSAT data
[E84-10170] 21 p3426 N84-31733
MAGSAT correlations with geoid anomalies — western Gulf of Mexico
[E84-10174] 21 p3427 N84-31736
Effects of climate on kininogen levels in healthy human subjects 21 p3452 N84-31907
Changes in arterial pressure in static work as function of time of day and degree of disturbance in Earth's magnetic field 21 p3456 N84-31930
Plasma and magnetospheric research
[NASA-CR-171157] 23 p3827 N84-34275
Large-scale, near-Earth, magnetic fields from external sources and the corresponding induced internal field
[NASA-TM-85012] 24 p3918 N84-34807
Ground-based observations of equatorial thermosphere dynamics with a Fabry-Perot interferometer
[NASA-CR-174005] 24 p3933 N84-34897
Some preliminary results of ionospheric slab thickness observations at Lunping 24 p3956 N84-35045
The geologic and geophysical study of the Hengchung Peninsula, southern Taiwan, 1 24 p3957 N84-35052
A numerical simulation study of solar wind disturbances responsible for geomagnetic and auroral storms
[AD-A144178] 24 p3993 N84-35266
Spectral characteristics of cosmic ray fluctuations 24 p3993 N84-35269

GEOMETRIC ACCURACY
LANDSAT-D thematic mapper image dimensionality reduction and geometric correction accuracy
[E84-10011] 02 p0236 N84-11549
Analysis of multispectral scanner (MSS) and Thematic Mapper (TM) performance (pre-launch and post-launch)
[E84-10043] 04 p0552 N84-13636
Evaluation of radiometric and geometric characteristics of LANDSAT-D imaging system
[E84-10050] 04 p0553 N84-13643
Demonstration of angular anisotropy in the output of Thematic Mapper
[E84-10095] 10 p1522 N84-19965
CCRS proposal for evaluating LANDSAT-4 MSS and TM data
[E84-10096] 10 p1522 N84-19966
Proceedings of the Fourth Meeting of the LANDSAT Technical Working Group (LTWG). Attachments
[LIB-PRO-0012] 10 p1523 N84-19971
Geometric performance: Line to line displacement analysis 10 p1524 N84-19983
Performance evaluation and geologic utility of LANDSAT-4 TM and MSS data
[E84-10099] 12 p1828 N84-21918
Analysis of the quality of image data acquired by the LANDSAT-4 thematic mapper and multispectral scanners — Plumas County, California
[E84-10106] 12 p1829 N84-21924
Investigation of several aspects of LANDSAT-4 data quality — Sacramento, San Francisco, and NE Arkansas
[E84-10122] 14 p2167 N84-23961
Proceedings of the Fourth Meeting of the LANDSAT Technical Working Group (LTWG), volume 1
[LIB-PRO-0012-VOL-1] 15 p2357 N84-25144
Analysis of the quality of image data acquired by the LANDSAT-4 Thematic Mapper and Multispectral Scanners
[E84-10137] 16 p2506 N84-26085
LANDSAT-D Thematic Mapper image dimensionality reduction and geometric correction accuracy — Walnut Creek Watershed, Texas
[E84-10149] 16 p2508 N84-26097
An overview of the Thematic Mapper geometric correction system 20 p3206 N84-30367
A preliminary assessment of LANDSAT-4 Thematic Mapper data 20 p3208 N84-30377
LANDSAT-4 Science Investigations Summary, including December 1983 Workshop results, volume 2
[E84-10167] 20 p3208 N84-30380
An analysis LANDSAT-4 Thematic Mapper geometric properties 20 p3210 N84-30392
The use of linear feature detection to investigate Thematic Mapper data performance and processing 20 p3210 N84-30393
An analysis of the high frequency vibrations in early Thematic Mapper scenes 20 p3210 N84-30395
Tests of low-frequency geometric distortions in LANDSAT-4 images 20 p3211 N84-30397
Geometric accuracy of LANDSAT-4 MSS image data — Georgia 20 p3212 N84-30406
Geometric accuracy assessment of LANDSAT-4 Multispectral Scanner (MSS) — Washington, D.C. 20 p3212 N84-30407
Introduction to Thematic Mapper investigations. Section 1: Radiometry. Section 2: Geometry
[E84-10185] 21 p3429 N84-31756
Investigation of LANDSAT D Thematic Mapper geometric performance: Line to line and band to band registration — Toulouse, France and Mississippi, U.S.A.
[E84-10187] 21 p3429 N84-31758

GEOMETRIC RECTIFICATION (IMAGERY)
LANDSAT-D thematic mapper image dimensionality reduction and geometric correction accuracy
[E84-10011] 02 p0236 N84-11549
CCRS proposal for evaluating LANDSAT-D MSS and TM data
[E84-10026] 02 p0236 N84-11560
Simulation aspects in the study of rectification of satellite scanner data 03 p0394 N84-12571
Remote sensing and topographic maps — belgium 03 p0398 N84-12600
Rectification of multispectral scanner images
[GEOWISS-MITT-24-1983] 03 p0402 N84-12628
LANDSAT-4 MSS interband registration 10 p1523 N84-19969
LANDSAT-MSS multitemporal registration — Ottawa, Canada 10 p1523 N84-19970
Radiometric calibration and geocoded precision processing of LANDSAT-4 MSS products 10 p1523 N84-19975
The representation of manipulable solid objects in a relational database 12 p1871 N84-22190
Managing geometric information with a data base management system 12 p1874 N84-22211
LANDSAT-D investigations in snow hydrology
[E84-10094] 13 p2003 N84-22997
Registration of TM data to digital elevation models 13 p2004 N84-22999
Correction and geological analysis of lunar 3.8 CM radar data 13 p2089 N84-23531
Comparative assessment of LANDSAT-D MSS and TM data quality for mapping applications in the Southeast
[E84-10138] 16 p2506 N84-26086
An integrated software system for geometric correction of LANDSAT MSS imagery
[E84-10143] 16 p2507 N84-26091
LANDSAT-D Thematic Mapper image dimensionality reduction and geometric correction accuracy — Walnut Creek Watershed, Texas
[E84-10149] 16 p2508 N84-26097
Comparative study of image data produced by satellites with different characteristics
[ESA-CR(P)-1867] 16 p2509 N84-26103
Evaluating LANDSAT-4 MSS and TM data
[E84-10157] 17 p2709 N84-27249
Development of Great Lakes algorithms for the Nimbus-G coastal zone color scanner
[NASA-CR-173511] 17 p2711 N84-27258
Thematic Mapper Image Processing System (TIPS) processing status 20 p3206 N84-30368
Thematic Mapper image production in the engineering checkout phase 20 p3206 N84-30369
LANDSAT-4 radiometric and geometric correction and image enhancement results — San Francisco Bay, California 20 p3206 N84-30370
An analysis LANDSAT-4 Thematic Mapper geometric properties 20 p3210 N84-30392
LANDSAT-4 MSS geometric correction: Methods and results 20 p3213 N84-30409
TM digital image products for applications — computer compatible tapes
[E84-10178] 21 p3428 N84-31749
TM digital image products for applications — computer compatible tapes
[E84-10183] 21 p3429 N84-31754
A textural image of Algiers — Landsat 23 p3784 N84-33096
SOFT-1: Imaging processing software 23 p3843 N84-34378

GEOMETRICAL ACOUSTICS
Numerical modeling techniques according to the wave equation and the ray method — in seismology
[BMFT-FB-T-83-136] 03 p0362 N84-12354
Acoustic ray-path fluctuations induced by El Nino
[PB84-167709] 16 p2534 N84-26270

GEOMETRICAL HYDROMAGNETICS
U MAGNETOHYDRODYNAMICS

GEOMETRICAL OPTICS
Realization of first order optical systems using thin lenses
[DE84-002848] 05 p0747 N84-14909
Optical hysteresis and bistability in the wave-front conjugation by electrooptic crystals 14 p2234 N84-24408
Effect of certain geometrical parameters on metrological characteristics of multichamber black body 17 p2637 N84-26871
The time-spatial structure of microwave radio fields on line-of-sight overwater paths
[REPT-220] 17 p2651 N84-26955
Innovative research in the design and operation of large telescopes for space: Aspects of giant telescopes in space 17 p2765 N84-27560
Graphical error analysis
[BMFT-FB-T-84-081] 22 p3642 N84-33093
Industrial optodigital inspection system 24 p3942 N84-34955
Computer aided geometrical optics design
[AD-A144559] 24 p3983 N84-35099

GEOMETRICAL THEORY OF DIFFRACTION
Radiation patterns of an antenna mounted on the mid-section of an ellipsoid
[AD-A133203] 06 p0823 N84-15365
General Electromagnetic Model for the Analysis of Complex Systems (GEMACS) computer code documentation (version 3), volume 3, part 2
[AD-A137464] 11 p1644 N84-20750
Scattering of an electromagnetic plane wave from a perfectly electrically conducting half-plane in the proximity of planer media discontinuities
[AD-A138968] 13 p1983 N84-22878
Possibility of extending Kirchhoff's approximation to problems of wave diffraction by transparent nonhomogeneous bodies 18 p2822 N84-27920

GEOMETRODYNAMICS
U RELATIVITY

GEOMETRY
NT ANALYTIC GEOMETRY
NT ANGLE OF ATTACK
NT ANGLES (GEOMETRY)
NT BRAGG ANGLE
NT BREWSTER ANGLE
NT CARTESIAN COORDINATES
NT CIRCLES (GEOMETRY)
NT COLLINEARITY
NT CONICS
NT COPLANARITY
NT CRACK GEOMETRY
NT CURVATURE
NT CURVES (GEOMETRY)
NT DIFFERENTIAL GEOMETRY
NT DUCT GEOMETRY
NT ELEVATION ANGLE
NT ELLIPSES
NT EUCLIDEAN GEOMETRY
NT FIXED POINTS (MATHEMATICS)
NT FLOW GEOMETRY
NT GEODESIC LINES
NT GREAT CIRCLES
NT HEXAGONS
NT HOMOTOPY THEORY
NT HYPERBOLAS
NT LEADING EDGE SWEEP
NT LIE GROUPS
NT LINES (GEOMETRY)
NT LOCI
NT MERCATOR PROJECTION
NT METRIC SPACE
NT NOZZLE GEOMETRY
NT OBLATE SPHEROIDS
NT OCTAHEDRONS
NT PARABOLAS
NT PARALLELEPIPEDS

NT POINTS (MATHEMATICS)
NT POLYGONS
NT POLYHEDRONS
NT PROJECTIVE GEOMETRY
NT PROLATE SPHEROIDS
NT QUADRANTS
NT RADII
NT RECTANGLES
NT RIEMANN MANIFOLD
NT S CURVES
NT SPECIMEN GEOMETRY
NT SPHEROIDS
NT SQUARES (MATHEMATICS)
NT SWEEP ANGLE
NT TANGENTS
NT TENSOR ANALYSIS
NT TETRAHEDRONS
NT TOPOLOGY
NT TORUSES
NT TRIANGLES
NT TRIGONOMETRY
NT VECTOR ANALYSIS
NT VORTICITY
NT ZERO ANGLE OF ATTACK
Navier-Stokes computational study of the influence of shell geometry on the Magnus effect at supersonic speeds
[AD-A130630] 01 p0079 N84-10516
Factors affecting plastic instability and sheet formability
[DE83-011146] 01 p0097 N84-10631
A note on the geometry of Kullback-Leibler information numbers
[AD-A129170] 01 p0129 N84-10840
FACET: A radiation-view-factor computer code for axisymmetric, 2D planar and 3D geometries with shadowing
[DE84-000359] 04 p0581 N84-13835
Some grid generations using conformal mapping
[NAL-TR-758] 04 p0586 N84-13871
Grid generation for cascades using conformal mapping
[NAL-TR-760] 04 p0586 N84-13872
The GPRIME approach to finite element modeling
06 p0859 N84-15594
Orthotropic hole element 06 p0859 N84-15595
Sound radiation by vortex-body interaction
07 p0962 N84-16360
Local recognition of Tits' geometries of classical type
[MC-ZW-197/83] 07 p1065 N84-16910
Computation of some parameters of Lie geometries
[MC-ZW-198/83] 07 p1065 N84-16911
Angle-resolved photoemission extended fine structure
[DE84-002899] 08 p1236 N84-18080
The mathematical structure of elementary particles
[AD-A136295] 09 p1387 N84-19060
First order ball bearing kinematics
[NASA-TM-83592] 10 p1502 N84-19816
The flow of an electrorheological suspension in cells of different geometries
[RAE-TRANS-2111] 11 p1646 N84-20760
Computer-Aided Geometry Modeling
[NASA-CP-2272] 12 p1869 N84-22179
A geometric modeler based on a dual-geometry representation polyhedra and rational b-splines
12 p1869 N84-22181
The computation of all plane/surface intersections for CAD/CAM applications 12 p1869 N84-22182
Use of shape-preserving interpolation methods in surface modeling 12 p1870 N84-22183
An umful of blinding functions
12 p1870 N84-22184
Intersection of parametric surfaces using lookup tables 12 p1870 N84-22185
Interactive geometry modeling of space station conceptual designs 12 p1871 N84-22191
Application and enhancements of MOVIE.BYU
12 p1871 N84-22195
The 3SPACE digitizer: A new input device for solid geometry modeling 12 p1872 N84-22200
Interactive graphics for quick-geometry modeling
12 p1872 N84-22202
Computer graphics in aerodynamic analysis
12 p1873 N84-22206
Interactive graphics for geometry modeling
12 p1873 N84-22207
Managing geometric information with a data base management system 12 p1874 N84-22211
The virtual front end: Towards better management of solid geometric data 12 p1874 N84-22213
An enhanced Oct-tree data structure and operations for solid modeling 12 p1874 N84-22214
Reflections on representing non-geometric data
12 p1874 N84-22216
Modeling concepts for communication of geometric shape data 12 p1875 N84-22217
Present capabilities and future requirements for computer-aided geometric modeling in the design and manufacture of gas turbine 12 p1875 N84-22219
Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-1] 13 p1939 N84-22612
An introduction to geometric programming
[AD-P002962] 14 p2200 N84-24202
On a theorem of Szegoe on univalent convex maps of the unit circle
[AD-A139256] 14 p2212 N84-24286
On the equidecomposability of a regular triangle and a square of equal areas
[AD-A139270] 14 p2213 N84-24290
Studies of the behavior of a snow cover on a mountain slope. 14: Poisson's ratio of snow, 2
15 p2353 N84-25120
Application of micropolar elasticity to the finite element continuum analysis of articulated structures
17 p2679 N84-27064
On the Kakeya problem
[CTH-MATH-1983-23] 17 p2759 N84-27520
Stator blade row geometry modification influence on two-stage, axial-flow compressor aerodynamic performance
[AD-A141793] 19 p2966 N84-28797
Reduced equations in three dimensional geometry
[DE84-009401] 20 p3282 N84-30841
Research program in elementary particle theory
[DE84-011502] 20 p3297 N84-30933
Unified theory and measurements of elastic waves in polycrystalline materials 21 p3489 N84-32110
Crack problems for bonded nonhomogeneous materials under antiplane shear loading
[NASA-CR-173892] 22 p3609 N84-32863
Degrees of adjacency or surroundedness
[AD-A143528] 22 p3646 N84-33118
Design, analysis and test verification of advanced encapsulation systems
[NASA-CR-173941] 23 p3789 N84-34028
Boolean operations in solid modelling: Boundary evaluation and merging algorithms
[TM-26] 23 p3818 N84-34207
Planetary Data Workshop, part 2
[NASA-CP-2343-PT-2] 23 p3842 N84-34376
Geometry software common to all experiments
23 p3843 N84-34380
Ordered incidence geometry and the geometric foundations of convexity theory
[AD-A144286] 24 p3951 N84-35015
Triangular extrapolation
[AD-A144660] 24 p3952 N84-35025
GEOMORPHOLOGY
The effects of solar incidence angle over digital processing of LANDSAT data
[E84-10007] 01 p0099 N84-10641
Contribution of satellite remote sensing to knowledge of the littoral from the mouth of the Loire to that of the Gironde (France) 03 p0396 N84-12584
Radar bathymetry : A review
03 p0400 N84-12612
Galilean satellite geomorphology
[NASA-CR-174574] 03 p0464 N84-13057
Geomorphic studies of Mars 03 p0465 N84-13063
Role of geomorphic thresholds in determining alluvial channel morphology
[DE84-003627] 07 p1034 N84-16708
Empirical analysis of meandering and flow characteristics in laboratory and natural channels
[DE84-003461] 08 p1179 N84-17679
Geology of Maxwell Montes, Venus
13 p2077 N84-23460
Mercury: New identification of ancient multi-ring basins and implications for geologic evolution
13 p2077 N84-23463
Morphology of fresh craters on Ganymede and the origin of pedestal craters 13 p2078 N84-23466
Differential degradation of Martian impact basins
13 p2078 N84-23468
Geomorphic clues to the Martian volatile inventory. 1: Flow ejecta blankets 13 p2079 N84-23474
Quantitative and experimental modelling of sapping networks 13 p2084 N84-23500
Planetary geomorphology field studies: Washington and Alaska 13 p2084 N84-23501
Permafrost on Mars: distribution, formation, and geological role 13 p2085 N84-23506
Glacial and periglacial landforms in Denmark: Scandinavian analogs for Martian features
13 p2085 N84-23507
Curvilinear ground on Mars: The search for terrestrial analogs 13 p2085 N84-23508
Planetary geomorphology field studies: Iceland and Antarctica 13 p2086 N84-23514
Geomorphic clues to the Martian volatile inventory: Landslides 13 p2086 N84-23516
Temporal and spatial distribution of exhumed topography 13 p2087 N84-23517
A tectonic geomorphological classification of the walls of Valles Marineris 13 p2087 N84-23518
Elysium Region, Mars: Characterization of tectonic features 13 p2089 N84-23534
Mars paleostratigraphy 13 p2090 N84-23536
Valles Marineris layered deposits: Implications of origin 13 p2090 N84-23537
Geologic investigations of outer planets satellites
[NASA-CR-173497] 13 p2091 N84-23544
Geology of the Neptune Range, Antarctica
14 p2162 N84-23946
Advances in planetary geology
[NASA-TM-86247] 15 p2426 N84-25567
Geologic observations of the Martian highland boundary in the Mamers Valles region 15 p2426 N84-25572
Field studies in the structural society project: Mineralized lineaments
[INPE-2876-NTE/205] 17 p2726 N84-27352
10: Models of volcanism and interior structure
17 p2777 N84-27634
Sensing of factors involved in development of exogenous processes on space photographs of arid territories 19 p2977 N84-28870
Structural-geomorphological interpretation of lineaments detected from space photographs and patterns of mineral distribution 19 p2977 N84-28871
The seismological investigations of the World Ocean: The state of the problem 19 p3059 N84-29412
Dependence of crustal structure of eastern Pacific Ocean on its age 20 p3223 N84-30483
Structure of ocean floor in relation to conditions for formation of lithosphere 20 p3223 N84-30484
Mathematical modeling of longitudinal profile adjustment in alluvial streams 21 p3425 N84-31726
Geology, petrology and tectonic significance of the Mesozoic Paleoceanic terranes of the Vizcaino Peninsula, Baja California Sur, Mexico 21 p3438 N84-31810
Geology of the Portrerillos District, Atacama, Chile
21 p3438 N84-31811
Recent eolian activity and paleoclimate fluctuations in the Ferris Lost Soldier Area, South-Central Wyoming
21 p3441 N84-31830
Geology of the Gualan and Southern Sierra de las Minas Quadrangles, Guatemala 21 p3441 N84-31834
Microtopography of micro-diamonds from sedimentary covers in the southwestern part of the Eastern European platform and a possible genetic interpretation
[CSIR-TRANS-1726] 21 p3443 N84-31842
Geology and origin of the Aquila iron deposit in southwestern Michoacan, Mexico
22 p3613 N84-32890
Geology, hydrology, and mineral resources of crystalline rock areas of the northeastern United States
[DE84-013672] 22 p3614 N84-32901
Geomorphic approach to hydrograph synthesis, with potential for application to ungaged watersheds
[PB84-190115] 22 p3615 N84-32904
Studies in environmental geomorphology of Dudhatoli Ridge Garhwal, Himalay, India 23 p3770 N84-33902
Geomorphology and hydrogeology of the Edwards Plateau karst, central Texas 23 p3796 N84-34071
The geologic study of Taiwan area following up the acquisition of Taiwan SLAR imagery
24 p3957 N84-35051
GEON (TRADEMARK)
U POLYVINYL CHLORIDE
GEOPHYSICAL FLUID FLOW CELLS
Design and construction of equipment items for geophysical fluid flow models
[NASA-CR-171017] 15 p2335 N84-25018
Theoretical and experimental studies in support of the geophysical fluid flow experiment
24 p3923 N84-34832
GFFC experiment progress 24 p3924 N84-34833
GEOPHYSICAL FLUIDS
Thermal and hydraulic performance of a sieve-tray direct-contact heat exchanger
[DE84-000663] 04 p0537 N84-13531
Inertial and shear flow 20 p3288 N84-30674
GEOPHYSICAL OBSERVATORIES
Comparison of SCC magnitudes at MAGSAT altitudes (325-550 km) and at ground locations
[INPE-2890-PRE/409] 02 p0239 N84-11564
Papers presented at the Symposium on Upper Atmosphere Research in South Africa
[CSIR-S-325] 09 p1343 N84-18775
The present status of research at the Magnetic Observatory 09 p1343 N84-18777
Magnetospheric and atmospheric physics at the University of Natal 09 p1344 N84-18778
Upper atmosphere research at Rhodes University since 1940: A review 09 p1344 N84-18779

Modulation of cosmic rays with particular reference to the Hermanus neutron monitor
09 p1344 N84-18780
Magnetic results 1982: Eskdalemuir, Hartland and Lerwick Observatories
[BULL-15] 18 p2860 N84-28289
Thule Geophysical Observatory: Magnetic results, 1978
[ISBN-87-7478-211-8] 19 p3053 N84-29372
Godhavn Geophysical Observatory: Magnetic results, 1977
[ISBN-87-7478-213-4] 19 p3055 N84-29385
Thule Geophysical Observatory: Magnetic results, 1975
[ISBN-87-7478-206-1] 19 p3055 N84-29386
Thule Geophysical Observatory: Magnetic results, 1976
[ISBN-87-7478-208-8] 19 p3055 N84-29387
Thule Geophysical Observatory: Magnetic results, 1977
[ISBN-87-7478-209-6] 19 p3055 N84-29388
Thule Geophysical Observatory: Magnetic results, 1979
[ISBN-87-7478-214-2] 19 p3055 N84-29389

GEOPHYSICS
Solar-geophysical data number 462, February 1983. (Supplement). Explanation of data reports
[PB83-216234] 01 p0166 N84-11089
Solar-geophysical data, number 463, March 1983. Part 2: (Comprehensive reports). Data for September 1982, September 1980 and miscellanea. Explanation of data reports issued as number 462 (supplement) February 1983
[PB83-216317] 01 p0166 N84-11090
Solar-geophysical data number 464, April 1983. Part 1: Prompt report. Data for March 1983, February 1983 and late data. Explanation of data reports issued as number 462 (supplement) February 1983
[PB83-222489] 01 p0166 N84-11091
System for recording, processing and interpreting vertical seismic profiles
[BMFT-FB-T-83-152] 02 p0250 N84-11638
Geophysics and tectonic development of the Caroline Basin
[AD-A131314] 02 p0258 N84-11686
Orbiting geophysics laboratory experiment
[AD-A131950] 03 p0342 N84-12218
Winds: Chapter 6, 1983 revision. Handbook of Geophysics and Space Environments
[AD-A132018] 03 p0410 N84-12683
Summaries of physical research in the geosciences
[DE83-017885] 04 p0550 N84-13624
Natural hazards photograph catalog, key to geophysical records documentation no. 20
[PB83-250415] 04 p0557 N84-13674
Fundamental astrometry today and tomorrow
05 p0634 N84-14165
Geophysical data from drifting ice stations FRAM 4 and TRISTEN
[AD-A133370] 06 p0866 N84-15640
Radar image interpretation techniques applied to sea ice geophysical problems 07 p0990 N84-16413
Problems, examples and exercises
07 p1030 N84-16682
Solar-geophysical data prompt report, no. 466. Data for May 1983, April 1983 and late data. Explanation of data reports issued as number 462 (supplement), part 1
[PB83-253435] 07 p1093 N84-17107
Homogeneous magnitude system of the Eurasian continent: S and L waves
[PB84-101161] 08 p1188 N84-17744
The changing world of geomagnetism: A brief history relating to magnetic observatories
09 p1343 N84-18776
Supplement to the technical assessment of geoscience-related research for geothermal energy technology
[DE84-002373] 10 p1530 N84-20020
Combined sweeps for seismic reflection surveys using the VIBROSEIS system
[BMFT-FB-T-83-211] 10 p1537 N84-20073
Ocean modelling on the CYBER 205 at GFDL
10 p1559 N84-20212
USSR report: Earth sciences
[JPRS-UES-84-003] 11 p1669 N84-20891
Soviet investigations of Earth's gravity field
11 p1670 N84-20897
Alterant geophysical tomography
[DE84-004794] 11 p1671 N84-20907
Geophysical consequences of phanerozoic and Archean crustal evolution: Evidence from crustal cross-sections
11 p1679 N84-20955
Venus analogues on the Earth's ocean floor(?): Volcanic terrains seen by SeaMARC 2 side scan sonar
11 p1755 N84-21456
Solar-geophysical data no. 470, October 1983. Part 2: (Comprehensive reports). Data for April 1983, December 1980, January 1981 and miscellanea
[PB84-140367] 11 p1760 N84-21483
Research highlights from the Earth Sciences Division
[DE84-003916] 12 p1828 N84-21916
Major salt beds of the Palo Duro and Dalhart Basins, Texas
[DE84-005255] 12 p1837 N84-21973
Description of algorithms for processing Coastal Zone Color Scanner (CZCS) data
[NASA-CR-173466] 12 p1863 N84-22138
Solar-geophysical data no. 470, October 1983. Part 1: (Prompt reports), data for September 1983, August 1983 and late data
[PB84-140359] 12 p1923 N84-22526
Handbook of geophysics and space environments, Chapter 15, 1983 revision: Atmospheric temperature, density and pressure
[AD-A136846] 13 p2017 N84-23076
Scientific activity in oceanography, 1979-1932
13 p2018 N84-23084
Research briefings for the Office of Science and Technology Policy, the National Science Foundation and selected federal departments and agencies, 1983
[PB84-161322] 14 p2124 N84-23732
Activities at the Lunar and Planetary Institute
[NASA-CR-173528] 14 p2166 N84-23974
Summary of workshops concerning regional seismic source zones of parts of the conterminous United States convened by the US Geological Survey 1979 - 1980, Golden, Colorado
[USGS-CIRC-896] 14 p2174 N84-24025
Solar-Geophysical Data number 471, November 1983. Part 1: (Prompt reports). Data for October 1983, September 1983 and late data
[PB84-156991] 14 p2252 N84-24523
Solar-Geophysical Data number 471, November 1983. Part 2: Comprehensive reports. Data for May 1983 and miscellanea
[PB84-157007] 14 p2252 N84-24524
Geophysical Fluid Dynamics Laboratory activities, FY83, plans FY84
[PB84-148790] 15 p2374 N84-25245
Microexplosions in boreholes
[FOA-C-20523-E1] 15 p2406 N84-25445
USSR report: Earth sciences
[JPRS-UES-84-004] 17 p2696 N84-27177
Magnetohydrodynamic generator helps predict earthquakes 17 p2700 N84-27199
Deep geophysical investigations in zones of present-day active volcanism 17 p2701 N84-27204
Geophysical and tectonic characteristics of Mongolian-Okhotsk seismic zone
17 p2701 N84-27206
Structure and direction of evolution of European tectonosphere according to geological and geophysical data 17 p2706 N84-27233
Scatterometer capabilities in remotely sensing geophysical parameters over the ocean: The status and the possibilities 17 p2712 N84-27268
Does the scatterometer see wind speed or friction velocity? 17 p2713 N84-27270
Basic elements of nuclear geophysics
[INPE-3002-PRE/452] 17 p2726 N84-27350
USSR report: Earth sciences
[JPRS-UES-84-005] 18 p2855 N84-28132
Diode-laser gas analyzer for geophysical studies
18 p2859 N84-28155
New book discusses normal geomagnetic field
18 p2859 N84-28156
Problems in seismic anisotropy of thin-layered media
18 p2859 N84-28157
Spectral approach to interpretation of electromagnetic anomalies in case of E-polarization
18 p2859 N84-28158
Separating normal and anomalous fields using measurements in limited area 18 p2859 N84-28159
Detailed study of Earth's crust in Baykal rift zone according to refracted waves data
18 p2860 N84-28160
Two types of continental breakup
18 p2863 N84-28178
Regional natural electric fields and their prospecting significance 18 p2864 N84-28181
Aeronautical Engineering: A continuing bibliography with indexes (supplement 175)
[NASA-SP-7037(175)] 19 p2955 N84-28726
Excess science accommodation capabilities and excess performance capabilities assessment for Mars Geoscience and Climatology Orbiter: Extended study
[NASA-CR-173765] 19 p2978 N84-28882
Yearbook of the Bureau of Mineral Resources, Geology and Geophysics, Canberra, 1 July 1982 - 30 June 1983
[BMR-83] 19 p3037 N84-29266
National and international geoscience maps
19 p3038 N84-29271
European scientific notes. Volume 38, number 6
[AD-A142175] 19 p3116 N84-29801
Interior of the Earth 20 p3218 N84-30443
Crustal deformation and earthquakes
20 p3220 N84-30457
A comparison between Lageos laser ranging and VLBI determined baselines 20 p3220 N84-30459
The ERODYN and QRPIG computer programs
20 p3221 N84-30468
USSR report: Earth sciences
[JPRS-UES-84-006] 20 p3223 N84-30479
Geokinetic effects on motion sensitive instrumentation, systems and facilities
[AD-A142682] 20 p3241 N84-30575
Stratigraphic and volcano-tectonic relations of Crater Flat Tuff and some older volcanic units, Nye County, Nevada
[DE84-010926] 20 p3242 N84-30584
Proposed scientific activities for the Salton Sea scientific drilling project
[DE84-012256] 20 p3243 N84-30586
Solar-geophysical data number 473. Part 1: (Prompt reports) data for December 1983, November 1983 and late data
[PB84-180611] 20 p3320 N84-31073
Solar-geophysical data number 473. Part 2: (Comprehensive reports) data for July 1983, March 1981 and miscellanea
[PB84-180629] 20 p3320 N84-31074
Global resources information system
21 p3428 N84-31747
Marine Seismic System (MSS) deployment. Phase 5: An investigation of techniques and deployment scenarios for installation of triaxial seismometer in a borehole in the deep ocean
[AD-A142873] 21 p3444 N84-31850
Deep-Towed Array Geophysical System (DTAGS): A hardware description
[AD-A142970] 21 p3444 N84-31851
Complete Bouguer gravity anomaly map, Cascade Mountains, Washington
[DE84-012548] 21 p3445 N84-31856
Environmental Research Laboratories publication abstracts, FY 1983
[PB84-189323] 21 p3450 N84-31892
Wave propagation in dense geophysical medium
[AD-A143213] 22 p3623 N84-32955
International Geoscience and Remote Sensing Symposium (IGARSS) 84. Remote sensing: From Research Towards Operational Use, volume 1
[ESA-SP-215-VOL-1] 23 p3764 N84-33857
The International Geoscience and Remote Sensing Symposium (IGARSS) 84. Remote sensing: From research towards operational use, volume 2
[NASA-CR-173978] 23 p3777 N84-33946
Introduction to atmospheric geophysics
[INPE-3169-PRE/539] 23 p3797 N84-34079
Analysis, modeling and control of dynamical systems
[AD-A143937] 23 p3818 N84-34209
Space laser applications in geophysics
24 p3903 N84-34719
Earth's rotation and its geophysical implications — laser telemetry 24 p3904 N84-34720
Some boundary integral equation methods and their application to seismic exploration
24 p3918 N84-34803
Handbook of geophysics and space environments. Chapter 16: Water vapor, precipitation, clouds and fog, revised
[AD-A144178] 24 p3934 N84-34901
The geologic and geophysical study of the Hengchung Peninsula, southern Taiwan, 1 24 p3957 N84-35052
A general scientific information system to support the study of climate-related data
[NASA-TM-86152] 24 p3968 N84-35128

GEOPOTENTIAL
NT GEOPOTENTIAL HEIGHT
A contribution to 3D-operational geodesy. Part 3: OPERA, a multipurpose program for operational adjustment of geodetic observations of terrestrial type
[SER-B-264-PT-3] 02 p0235 N84-11541
Accuracy estimates of gravity potential differences between western Europe and United States through Lageos satellite laser ranging network
[AD-A131838] 03 p0408 N84-12669
Spaceborne Gravity Gradiometers
[NASA-CP-2305] 09 p1335 N84-18716
Spaceborne Gravity Gradiometers. Part 2: Role of gravity gradiometers in NASA's programs
09 p1335 N84-18718
Some aspects of the high equatorial orbit for the Tropical Earth Resources Satellite (TERS)
[VTH-LR-404] 12 p1904 N84-22400

Potential utility of future satellite magnetic field data [NASA-CR-175230] 15 p2279 N84-24691
Satellite techniques for determining the geopotential for sea-surface elevations 17 p2717 N84-27298
The influence of actual and apparent geoid error on ocean analysis and prediction 17 p2721 N84-27316
First- and second-phase gravity field solutions based on satellite altimetry [AD-A142256] 19 p3054 N84-29381
Geodynamics [NASA-CP-2325] 20 p3222 N84-30475

GEOPOTENTIAL HEIGHT
Accuracy of gravimetrically determined absolute and relative geoid heights [SER-A-97] 03 p0407 N84-12661
Regional correlation between TOMS total ozone from NIMBUS-7 satellite and geopotential height from the GLAS analysis 12 p1851 N84-22056
Teleconnection patterns in the Southern Hemisphere 12 p1855 N84-22064
The use of satellite observed cloud patterns in Northern Hemisphere 300 mb and 1000/300 mb numerical analysis [AD-A141215] 18 p2889 N84-28340

GEOPRESSURE
Continuity and internal properties of Gulf Coast sandstones and their implications for geopressured fluid production [DE84-004396] 10 p1526 N84-19996
Analysis of Sweet Lake geopressured-geothermal aquifer [DE84-006053] 12 p1836 N84-21972

GEORGIA
Aircraft remote sensing of soil moisture and hydrologic parameters, Taylor Creek, Florida, and Little River, Georgia, 1979 data report [E84-10010] 02 p0236 N84-11548
Comparative assessment of LANDSAT-4 MSS and TM data quality for mapping applications in the southeast [E84-10040] 04 p0551 N84-13633
Comparative assessment of LANDSAT-D MSS and TM data quality for mapping applications in the Southeast [E84-10138] 16 p2506 N84-26086
Delineation of wetland boundaries using vegetation within the Altamaha River Basin of Georgia [AD-A142590] 20 p3228 N84-30515

GEOS 1 SATELLITE
A comparison between GEOS 1 magnetic field measurements and some models of the geomagnetic field [IFSI-82-5] 03 p0409 N84-12675
Active sounder experiments on GEOS and ISEE 05 p0635 N84-14177
The programs used to compare the predictions of some geomagnetic models with the measurements from the experiment S-331 onboard the GEOS-1 satellite [IFSI-82-2] 05 p0705 N84-14627
GEOS 1 and 2 in flight evaluation of the reaction control system [SEP-TS/S/194/JM/30301/81(1)] 08 p1113 N84-17242
Ion measurements on GEOS using a negatively biased sensor on a positively charged spacecraft 08 p1117 N84-17263

GEOS 2 SATELLITE
Active sounder experiments on GEOS and ISEE 05 p0635 N84-14177
GEOS 1 and 2 in flight evaluation of the reaction control system [SEP-TS/S/194/JM/30301/81(1)] 08 p1113 N84-17242
Observations of the GEOS-2 equilibrium potential and its relation to the ambient electron energy distribution 08 p1116 N84-17256
Influence of wake and photoemission on electric field measurements with a double probe on GEOS-2 08 p1116 N84-17261
Comparison of thermal plasma observations on SCATHA and GEOS 08 p1117 N84-17262
Ion measurements on GEOS using a negatively biased sensor on a positively charged spacecraft 08 p1117 N84-17263
The DC electric field in space: Direct measurements and inferences from cold plasma drifts 08 p1117 N84-17264

GEOS-B SATELLITE
U GEOS 2 SATELLITE

GEOSTATIONARY OPERATIONAL ENVIRON SATS
U GOES SATELLITES

GEOSTATIONARY PLATFORMS
U SYNCHRONOUS PLATFORMS

GEOSTATIONARY SATELLITES
U SYNCHRONOUS SATELLITES

GEOSTROPHIC WIND
The instability of oscillatory Ekman boundary-layer flow 05 p0710 N84-14655
Satellite techniques for determining the geopotential for sea-surface elevations 17 p2717 N84-27298
Quasigeostrophic movements in barotropic and baroclinic fluid 18 p2885 N84-28191
Surface winds in some Alaskan passes [PB84-194745] 21 p3450 N84-31895
Mesoscale ageostrophic circulations associated with baroclinic jet streaks 24 p3930 N84-34875

GEOSYNCHRONOUS ORBITS
Capture-ejector satellites [NASA-TM-85686] 06 p0795 N84-15179
The harmonic structure of PC 3-4 magnetic pulsations at geosynchronous orbit and its relation to the solar wind 06 p0940 N84-16106
The role of potential barrier formation in spacecraft charging 08 p1118 N84-17269
Introduction to geostationary orbits [ESA-SP-1053] 12 p1776 N84-21590
Manned geosynchronous mission requirements and systems analysis study extension [NASA-CR-173547] 15 p2281 N84-24700
Observations of differential charging with METEOSAT [AD-P002112] 16 p2523 N84-26196
High resolution observations of low contrast phenomena from an Advanced Geosynchronous Platform (AGP) 17 p2712 N84-27266
Low energy (130 eV) oxygen ions at the geosynchronous orbit during the CDAW-6 event of March 22, 1979 [IFSI-83-17] 18 p2881 N84-28291
Spectrum/orbit utilization program for geostationary satellites [NASA-TM-83759] 20 p3172 N84-30146
Optimal low-thrust transfers to geosynchronous orbit 21 p3348 N84-31240
Artificial satellites, orbital motion [INPE-3163-RPE/458] 23 p3699 N84-33445
Design guidelines for assessing and controlling spacecraft charging effects [NASA-TP-2361] 23 p3700 N84-33452
Prediction model for the life of nickel-cadmium batteries in geosynchronous orbit satellites 23 p3737 N84-33686
Ni-Cd battery life expectancy in geosynchronous orbit 23 p3738 N84-33687
Continuous wave (CW) diode laser instrumentation for rendezvous and docking maneuvers in geosynchronous orbits 24 p3908 N84-34752
Rendezvous and docking mission and navigation sensors 24 p3908 N84-34753
Lightning mapper development: Status and requirements 24 p3927 N84-34854

GEOTECHNICAL ENGINEERING
Correlation of LANDSAT and air photo linears with roof control problems and geologic features [PB83-250852] 04 p0555 N84-13656
Analytical and experimental investigation of soil reinforcing [AD-A134343] 07 p0985 N84-16383
Acoustic data and uncertainty in geotechnical site characterization offshore [PB84-100908] 08 p1196 N84-17801
Compendium of abstracts on statistical applications in geotechnical engineering [AD-A136355] 09 p1297 N84-18478
Proceedings, Seminar on Probabilistic Methods in Geotechnical Engineering [AD-A136497] 09 p1345 N84-18786
A stochastic method in hydraulic design of open channels [PREPRINT-790] 12 p1817 N84-21845
Computer applications to geotechnical engineering [AD-A139271] 14 p2134 N84-23789
Installation restoration general environmental technology development. Task 3: Guidelines for in-place closure of dry lagoons. Volume 2: Evaluation of in-place closure technologies [AD-A140655] 17 p2724 N84-27338
User's manual for SAC-3: A 3-dimensional nonlinear, time dependent soil analysis code using the bounding surface plasticity model [AD-A137782] 18 p2853 N84-28114

GEOTECHNICAL FABRICS
Analytical and experimental investigation of soil reinforcing [AD-A134343] 07 p0985 N84-16383
Mechanistic methodology for airport pavement design with engineering fabrics. Volume 1: Theoretical and experimental base [DOT/FAA/PM-84-9.1] 24 p3857 N84-34450

GEOTEXTILES
U GEOTECHNICAL FABRICS

GEOTHERMAL ENERGY CONVERSION
Sperry low temperature geothermal conversion system, phase 1 and phase 2. Volume 6: Economic studies [DE84-008039] 15 p2363 N84-25181
Sperry Low Temperature Geothermal Conversion System, Phase 1 and Phase 2. Volume 3: Systems description [DE84-008042] 18 p2876 N84-28260
Compendium of selected methods for sampling and analysis at geothermal facilities [PB84-199926] 22 p3565 N84-32579
Exploratory Energy Research Program of the Univeralty of Hawaii at Manoa [DE84-014910] 23 p3784 N84-34000
Preliminary assessment of the velocity pump reaction turbine as a geothermal total-flow expander [DE84-014749] 23 p3791 N84-34043

GEOTHERMAL ENERGY EXTRACTION
The 2-1/2-dimensional numerical solution for the electromagnetic scattering using a hybrid technique [DE83-014860] 02 p0210 N84-11374
Thermal and hydraulic performance of a sieve-tray direct-contact heat exchanger [DE84-000663] 04 p0537 N84-13531
Microseismic monitoring for evidence of geothermal heat in the capital district of New York [PB83-248807] 04 p0556 N84-13659
Oil shale extraction using super-critical extraction [NASA-CASE-NPO-15656-1] 13 p2006 N84-23012
Generating capacity of the Heber geothermal field, California [DE84-006883] 13 p2009 N84-23030
Exploration and drilling for geothermal heat in the Capital District, New York [PB84-153162] 14 p2173 N84-24016
Helical rotary screw expanders to generate electricity from geothermal brines 15 p2430 N84-25596

GEOTHERMAL ENERGY UTILIZATION
Geoscience-related research needs for geothermal energy technology [DE84-001837] 05 p0704 N84-14622
Mapping the acid stimulation in the Beowawe geothermal field using surface electrical potentials [DE84-004995] 11 p1672 N84-20908
Preliminary performance estimates and value analyses for binary geothermal power plants using ammonia-water mixtures as working fluids [DE84-006124] 11 p1674 N84-20921
Economic assessment of nine geothermal direct use applications [DE84-006475] 12 p1844 N84-22021
Nonaerospace uses of JPL technology: A report on technology transfer [NASA-CR-172804] 15 p2429 N84-25588
Energy technology characterizations handbook: Environmental pollution and control factors, third edition [DOE/EP-0093] 16 p2511 N84-26117
Compendium of selected methods for sampling and analysis at geothermal facilities [PB84-199926] 22 p3565 N84-32579

GEOTHERMAL RESOURCES
NT VOLCANOES
Geothermal Elastomeric Materials Technology Transfer (GEM-TT) Program [DE83-013118] 01 p0050 N84-10325
New fluorocarbon elastomers for seals for geothermal and other aggressive environments [DE83-014424] 01 p0090 N84-10590
The 2-1/2-dimensional numerical solution for the electromagnetic scattering using a hybrid technique [DE83-014860] 02 p0210 N84-11374
Seismological studies at the Cerro Prieto field, 1978 - 1982 [DE83-013844] 02 p0250 N84-11633
Alaska's mineral resources [DE83-016599] 03 p0401 N84-12623
Summaries of physical research in the geosciences [DE83-017885] 04 p0550 N84-13624
Microseismic monitoring for evidence of geothermal heat in the capital district of New York [PB83-248807] 04 p0556 N84-13659
Geoscience-related research needs for geothermal energy technology [DE84-001837] 05 p0704 N84-14622
State-coupled low temperature geothermal resource assessment program, Fiscal Year 1982 [DE84-002640] 10 p1526 N84-19997
Mapping the acid stimulation in the Beowawe geothermal field using surface electrical potentials [DE84-004995] 11 p1672 N84-20908
Analysis of Sweet Lake geopressured-geothermal aquifer [DE84-006053] 12 p1836 N84-21972
Analysis of production data from the Krafla geothermal field, Iceland [DE84-006881] 13 p2006 N84-23014
Generating capacity of the Heber geothermal field, California [DE84-006883] 13 p2009 N84-23030

Geothermal resources of southern Idaho
[USGS-CIRC-866] 14 p2168 N84-23988
Alaska's mineral resources
[DE84-006918] 14 p2170 N84-23998
Exploration and drilling for geothermal heat in the Capital District, New York
[PB84-153162] 14 p2173 N84-24016
Survey of environmental regulations applying to geothermal exploration, development and use
[PB84-173665] 16 p2519 N84-26174
Inventory of geothermal resources in Nebraska
[DE84-009679] 20 p3229 N84-30518
Targeting geothermal exploration sites in the Mount St. Helens area using solid mercury surveys
[DE84-012547] 20 p3229 N84-30519
Geothermal potential along the Balcones/Ouachita trend, central Texas: Ongoing assessment and selected case studies
[DE84-010826] 20 p3241 N84-30578
Using chemically reactive tracers to determine temperature characteristics of geothermal reservoirs
[DE84-011373] 20 p3242 N84-30580
Geologic and hydrologic research on the Moana geothermal system, Washoe County, Nevada
[DE84-012409] 21 p3431 N84-31770
Geological and geothermal investigation of the lower Wind River valley southwestern Washington Cascade Range
[DE84-012545] 21 p3431 N84-31771
Low temperature geothermal resource evaluation of the Moses Lake-Ritzville-Connell area, Washington
[DE84-012505] 21 p3432 N84-31773
Results of a detailed gravity survey in the Alamosa area, Alamosa County, Colorado
[DE84-012188] 21 p3444 N84-31853
Temperature profiles from Salt Valley, Utah
[DE84-900996] 21 p3444 N84-31854
Lineaments of Texas: Possible surface expressions of deep-seated phenomena
[DE84-010827] 21 p3445 N84-31858
Comparison between two Lysholm engines
[DE84-013696] 22 p3564 N84-32571
Assessment of low-temperature geothermal resources of the United States, 1982
[DE84-007193] 22 p3615 N84-32902
Summary of geothermal exploration activity in the State of Washington from 1978 - 1983
[DE84-014863] 23 p3784 N84-33999

GEOTHERMAL TECHNOLOGY
NT GEOTHERMAL ENERGY CONVERSION
NT GEOTHERMAL ENERGY EXTRACTION
NT GEOTHERMAL ENERGY UTILIZATION
Cathodic protection in simulated geothermal environments
[DE83-013690] 01 p0045 N84-10291
A summary of modeling studies of the Krafla Geothermal Field, Iceland
[DE84-000939] 05 p0697 N84-14578
Geoscience-related research needs for geothermal energy technology
[DE84-001837] 05 p0704 N84-14622
Two-phase flow studies
[DE84-001727] 06 p0845 N84-15511
Permafrost and the geothermal regime
14 p2165 N84-23964
Economics of a conceptual 75 MW hot dry rock geothermal electric power station
[DE83-015926] 20 p3236 N84-30539
State of technology of direct contact heat exchanging
[DE84-012824] 21 p3402 N84-31585
Altering the volumetric expansion ratio of a Lysholm helical screw expander
[DE84-013695] 22 p3564 N84-32573
Compendium of selected methods for sampling and analysis at geothermal facilities
[PB84-199926] 22 p3565 N84-32579

GEOTROPISM
Gravitropic responses in the grass pulvinus: Model system for asymmetric growth 02 p0263 N84-11728
Aromatic biosynthesis in pine tissues
09 p1357 N84-18866
Participation of ethylene in gravitropism
09 p1359 N84-18878

GERDIEN ARC HEATERS
U ARC HEATING
U HEATING EQUIPMENT

GERDIEN CONDENSERS
A Gerdien condenser system for measuring stratospheric charged particle densities
[AD-A143317] 22 p3623 N84-32958

GERMAN DEMOCRATIC REPUBLIC
U EAST GERMANY

GERMANATES
Shuttle flight test of an advanced gamma-ray detection system
[AD-A136681] 10 p1498 N84-19789

GERMANIUM
Development of a segmented n-type germanium detector, and its application to astronomical gamma-ray spectroscopy
[NASA-TM-85435] 03 p0461 N84-13039
Double beta decay: Recent developments and projections
[DE84-000476] 04 p0598 N84-13944
Preparation of a profiled film of diamond-like carbon on germanium substrates
[AD-A136314] 09 p1394 N84-19104
A study of the mechanics of radiation damage in fiber optical waveguides
[AD-A139590] 14 p2225 N84-24352
Development of neutron-transmutation-doped germanium bolometer material
[DE84-008246] 14 p2243 N84-24471
Shuttle flight test of an advanced gamma-ray detection system
[AD-A136157] 15 p2337 N84-25030
Absolute photopeak efficiency values for an intrinsic well-type Ge detector in the gamma ray region 0.1 to 3.0 MeV
[REPT-2(1984)] 18 p2900 N84-28398
Band structure effects in the electronic properties of solids assessible in neutron scattering studies
[DE84-008557] 18 p2941 N84-28654
Electron-microscopic microstructural examination of glassy Ge-Se semiconductors 20 p3287 N84-30871
Influence of exciton movement in magnetic field on luminescence. Indirect forbidden transitions in Ge
21 p3485 N84-32083

GERMANIUM ALLOYS
Performance and materials aspects of Ge:Be photoconductors
[NASA-CR-174470] 01 p0155 N84-11023
Structural studies of amorphous Mo-Ge alloys through the semiconductor-metal transition
[DE83-016525] 02 p0299 N84-11964
Transport properties of amorphous silicon-germanium alloy films. Volume 2: Appendices
[DE84-006879] 15 p2414 N84-25495
Transport properties of amorphous silicon-germanium alloy films. Volume 1: Technical summary
[DE84-006878] 15 p2414 N84-25497
Rapid solidification and undercooling of aluminum germanium alloys: Characterization and control of microstructure
[DE84-012395] 21 p3367 N84-31361

GERMANIUM COMPOUNDS
NT GERMANATES
Inelastic deformation of crystaline nonmetallic solids
[DE83-014594] 01 p0155 N84-11020
Optical properties and correlation energy of defects in a-Ge:H
[DE83-016697] 03 p0455 N84-12993
New materials for infrared transmitting electrooptic filters
[AD-A139272] 14 p2224 N84-24349

GERMANIUM DIODES
Telescope calibration for gamma spectroscopy with a new Ge(Li) diode configuration
[INPE-2885-PRE/407] 04 p0619 N84-14083

GERMANIUM RECTIFIERS
U GERMANIUM DIODES

GERMANY
Meteorological and climatological conditions affecting the vertical structure of visibility in Northern Germany
[AD-A139126] 14 p2179 N84-24052
Description of FRG basic research in X-ray lithography
17 p2640 N84-26894
The spatial and temporal distribution of diffuse and direct solar radiation in the Federal Republic of Germany
[BMFT-FB-T-84-125] 23 p3802 N84-34110

GERMINATION
Phytochrome from green plants: Assay, purification, and characterization
[DE83-017447] 03 p0414 N84-12710
Space-exposed experiment developed for students
15 p2277 N84-24676
Space environment effects (M0006)
15 p2279 N84-24690
Results of the Purdue University GAS-1 payload
18 p2799 N84-27760
Project Explorer: Get Away Special #007 --- alloy solidification, seed germination, crystal growth, and radio transmission of payload data 18 p2800 N84-27773

GERMINATORS
U PHYTOTRONS

GERONTOLOGY
Initial validation of a functional age profile for aviators
[AD-P003271] 18 p2907 N84-28436

GERT
Computer generation of plan of action and milestone schedule
[AD-A137057] 10 p1564 N84-20244

Three-dimensional graphics for scientific data display and analysis
[DE84-004075] 10 p1585 N84-20253
Computer-assisted information graphics from the graphic design perspective
[DE84-006059] 12 p1884 N84-22281
Designing readable and reusable tables
[RAND/P-6945] 14 p2247 N84-24496
A system for embedding data displays in graphical contexts
[AD-A143630] 23 p3815 N84-34191

GESTALT THEORY
Interpretability of wetland on SEASAT-A imagery in the polderland of Flanders: A structural approach
03 p0397 N84-12597

GETTERS
Electrolytic gettering of tritius from air
[DE84-000174] 04 p0496 N84-13252
A practical sublimation source for large-scale chromium gettering in fusion devices
[DE84-000724] 04 p0606 N84-14002
Method of enhancing selective isotope desorption from metals
[DE84-011031] 20 p3156 N84-30044
Method of gas purification and system therefore
[DE84-014322] 23 p3720 N84-33582

GHOSTS
Perceived C/U ratio measuring equipment for TV ghost images
[NHK-LABS-NOTE-300] 19 p3003 N84-29036

GIANT STARS
NT CARBON STARS
NT RED GIANT STARS
Problems of stellar evolution in star clusters of the Magellanic clouds 03 p0483 N84-13051
Theory of winds in late-type evolved and pre-main-sequence stars 03 p0488 N84-13085
An abundance analysis of the cool barium stars
04 p0620 N84-14087
Measurements of chromospheric densities and geometrical extensions of late-type giant and super-giant stars
[NASA-CR-175236] 07 p1089 N84-17079
Emission lines in the UV spectrum of alpha Tau
24 p3974 N84-35168
Shell ejection phenomena in the hypergiant star P Cygni 24 p3977 N84-35189
Optical and ultraviolet observations of FK Comae stars 24 p3978 N84-35196

GIMBALS
Optical analysis of a gimballed mirror system
[DE83-016576] 02 p0295 N84-11934
Optical fiber lightguide sensing for gimbal pickoffs
[AD-A133343] 07 p0950 N84-16161
A high resolution stepping motor --- for spacecraft applications 09 p1297 N84-18478
A time domain analysis of a rigid two-bladed fully gimballed helicopter rotor with circulation control
[AD-A136947] 10 p1422 N84-19296
A double gimballed momentum wheel for precision 3-axis attitude control 15 p2266 N84-24608
Passive line-of-sight stabilization for an infrared sensor
[AD-A143305] 22 p3599 N84-32792

GIOTTO MISSION
The Giotto mechanisms and their functions
09 p1294 N84-18459
The Giotto thermal control shutter
10 p1444 N84-19435

GLACIAL DRIFT
Glaciation in Arctic Alaska 14 p2165 N84-23965
Quaternary sedimentation on the Alaskan Beaufort shelf: Sediment sources, glacioeustatism and regional tectonics 14 p2165 N84-23968
Stratigraphy and sedimentology of the upper Proterozoic Kingston Peak Formation, Panamint Range, eastern California 22 p3620 N84-32939

GLACIERS
Postglacial rebound observed by Lageos and the effective viscosity of the lower mantle
[NASA-TM-84982] 04 p0582 N84-13705
Great Lakes coastal geology: Stratigraphy and bluff recession along the Lake Erie coast, New York
[PB84-126933] 10 p1538 N84-20075
Plastic deformation of ice single crystals containing inclusions 15 p2353 N84-25114
Modeling glacial climates
[NASA-TM-86106] 15 p2371 N84-25221
Glaciology, volume 3: The mathematical theory of glaciomechanics
[ISSN-0202-7283] 19 p3038 N84-29274
Science support for the Earth radiation budget sensor on the Nimbus-7 spacecraft
[NASA-CR-175251] 22 p3622 N84-32948

GLACIOFLUVIAL DEPOSITS
U GLACIAL DRIFT

GLACIOLOGY
Snow and ice research: An assessment
[PB83-231662] 01 p0101 N84-10656
Glaciological data: Permafrost. A bibliography, 1978 - 1982
[PB83-249730] 04 p0585 N84-13724
Satellite image atlas of glaciers: The Polar regions
14 p2161 N84-23940
Climatic significance of lacustrine deposits around Lake Vanda and Don Juan Pond, Antarctica
14 p2163 N84-23953
Glaciological and geological studies of Antarctica with satellite remote sensing technology
14 p2163 N84-23956
Polar glaciology 20 p3218 N84-30445

GLANDS (ANATOMY)
NT ADRENAL GLAND
NT PARATHYROID GLAND
NT PITUITARY GLAND
NT THYROID GLAND

GLASS
NT BOROSILICATE GLASS
NT GLASS FIBERS
NT METALLIC GLASSES
NT SILICA GLASS
NT SPIN GLASS
Irradiation effects on the mechanical properties of composite organic insulators
[DE83-014703] 01 p0032 N84-10202
Correlation of electrical conductivity and thermal decomposition of phenolic materials
[DE83-009186] 01 p0074 N84-10487
High-specific-energy composite-material flywheel
[DE83-012943] 01 p0090 N84-10586
Mechanisms of wear in single and two-phase materials
[DE83-014651] 01 p0091 N84-10592
Thermal stress analysis of annular glass-to-metal seals under thermal shock 03 p0370 N84-12408
Hermetically sealed microminiature multisocket connector
[DE83-017484] 03 p0384 N84-12503
Evaluation of multicomponent fluoride glass candidates for double crucible drawn optical fiber
[AD-A131932] 03 p0441 N84-12893
Relationship between the glass transition temperature and the chemical structure of polymers
[RAE-LIB-TRANS-2098] 04 p0505 N84-13312
Relationships between the glass transition, thermodynamic and mechanical values as possible sources of information correlating material properties with chemical structure
[BR-90006] 05 p0644 N84-14238
Glass-like carbon: A C/sub x/H polymer intercalation compound
[DE84-001863] 05 p0660 N84-14340
Volume recovery in glasses: A free-volume diffusion process
[DE83-013771] 06 p0811 N84-15280
A measurement of the response of an SCG1-C scintillation glass shower detector to 2-17.5 GeV positrons 06 p0913 N84-15930
Hygrothermal effects in continuous fibre reinforced composites. Part 2: Physical properties
[AD-A135766] 09 p1276 N84-18331
Liquid impact erosion mechanisms in transparent materials
[AD-A135891] 09 p1287 N84-18405
Effect of amine surface treatment on the adhesion of a polyurethane to the surface
[AD-A135581] 09 p1288 N84-18406
Intrinsic and extrinsic properties of fiber optic sensor materials
[AD-A135893] 09 p1389 N84-19072
Evaluation of NRL glass for fiber optics, phase 2
[AD-A136017] 09 p1390 N84-19076
Durability of adhesive bonds between glass or metal substrates and a polybutadiene-polyurethane
[AD-A137489] 10 p1466 N84-19576
Chemical treatment of silicate glasses for producing anti-reflection surfaces
[DE84-005865] 11 p1732 N84-21299
Origin of the Moon: In search of the holy grail — volcanic glass 11 p1754 N84-21451
Thermal diffusion in glass melts
[BMFT-FB-W-83-033] 12 p1802 N84-21751
Precise measurement of refractive index and absorption coefficient of near millimeter wave and far infrared materials
[AD-A136656] 13 p2043 N84-23253
Role of abrasion in the optical polishing of metals and glass
[DE84-005737] 13 p2043 N84-23259
Novolac as stain protective film during optical glass fabrication
[DE84-005735] 13 p2044 N84-23260
Achievements and plans of the Solar Thermal Advanced Research Center
[DE84-005480] 14 p2172 N84-24010
Study of meteoroid impact craters on various materials
(A0138-1) 15 p2276 N84-24667
Effects of solar radiation on glasses
15 p2279 N84-24685
Studies of metastable microcrystalline and glassy alloys
[AD-A139941] 15 p2297 N84-24787
Nonlinear analysis of rectangular glass plates by Galerkin method
[PB84-159649] 15 p2302 N84-24819
Windshield weight reduction through the use of high strength glass and polyurethane interlayers
[AD-P003186] 17 p2590 N84-26599
An industry test program for interlayer equivalency
[AD-P003200] 17 p2592 N84-26613
The certification of polycarbonate transparencies: An appeal for reasonable requirements
[AD-P003225] 17 p2596 N84-26638
Gel structures in leached alkali silicate glass
[DE84-009928] 18 p2819 N84-27899
MEA/A-1 experiment 81F01 conducted on STS-7 flight, June 1983. Containerless processing of glass forming melts
[NASA-CR-171048] 19 p2997 N84-28993
Pressure-dependence of glass transition temperature of elastomeric glasses
[AD-A141485] 19 p2998 N84-28999
Determination of the optimum crystallization conditions of a high thermal expansion glass-ceramic
[DE84-009734] 19 p3000 N84-29014
Characterization of filament wound Kevlar and glass composites for rocket motor applications
20 p3142 N84-29949
Study of the fatigue crack propagation characteristics of YB-3 and YB-4 aeronautical organic glass
20 p3160 N84-30069
Alkali-free phosphate glasses for high temperature, high electrical resistivity applications
[DE84-011533] 20 p3164 N84-30091
Joining silicon nitride based ceramics: A technical assessment
[DE84-011356] 20 p3164 N84-30092
Quality control analysis of TA-23 glass seals for lithium ambient temperature batteries
[DE84-011719] 20 p3164 N84-30094
Capillary separations with calorimetric absorbance detection
[DE84-012466] 20 p3195 N84-30291
Ceramic-glass-metal seal by microwave heating
[DE84-011283] 20 p3196 N84-30295
Analytical characterization of coatings and thin overlayers
[DE84-011902] 21 p3371 N84-31389
Double arch mirror study
[NASA-CR-166589] 21 p3412 N84-31637
Newly discovered effect of interaction of optical radiation and glass 21 p3482 N84-32069
Multicomponent diffusion under general chemical potential gradients
[DE84-010830] 22 p3548 N84-32458
Development and testing of glass coatings for Hexanite-A powders
[CSIR-TRANS-1747] 22 p3557 N84-32527
Glass heating panels and method for preparing the same from architectural reflective glass
[NASA-CASE-NPO-15753-1] 23 p3723 N84-33589
The undercooling of liquids 24 p3861 N84-34590
Extended abstracts of the Proceedings of the 2nd International Symposium on Halide Glasses
[AD-A144269] 24 p3888 N84-34624

GLASS COATINGS
Ceramic glazes: Basic information
[PB84-150663] 14 p2130 N84-23772
Investigations of mechanical properties of high strength steels and their suitability for glass lining
[BMFT-FB-T-84-076] 21 p3368 N84-31370
Corrosion resistant glass coating for metals
23 p3706 N84-33495

GLASS ELECTRODES
Thermal endurance of silicone/glass sleeving by the cyclic electrical proof test method of IEC 216 (first report)
[ERA-82-91] 13 p1999 N84-22967
Thermal endurance of silicone/glass sleeving by the cyclic electrical proof test method of ICC 216 (second report)
[ERA-82-136] 13 p1999 N84-22968
Glass electrolytes for sodium/sulfur cells
[DE84-013428] 21 p3394 N84-31539

GLASS FIBER REINFORCED PLASTICS
Quality control and nondestructive evaluation techniques for composites. Part 2: Physiochemical characterization techniques, a state-of-the-art review
[AD-A131038] 01 p0032 N84-10200
Characterization of cumulative damage in composites during service 01 p0033 N84-10210
Ocean thermal energy conversion cold water pipe at-sea test program
[PB83-221119] 01 p0060 N84-10393
Growian rotorblades: Production development, construction and test
[BMFT-FB-T-83-111] 02 p0233 N84-11526
Glass fibre/epoxy resin interface life-time prediction
[AD-A132206] 04 p0507 N84-13320
Improved moisture resistance of fiber reinforced plastics
[AD-A132762] 05 p0659 N84-14333
Rubber-modified epoxy and glass laminates for application to naval ship structures
[AD-A133305] 06 p0798 N84-15204
The preparation and properties of porous glass-polymer composite 06 p0808 N84-15261
Flammability characteristics of some epoxy resins and compsites
[AD-A135282] 08 p1137 N84-17394
Fatigue testing of OTEC cold water pipe glass-reinforced plastic materials
[PB84-128958] 09 p1335 N84-18715
Work capsule for lightweight hydrostatic machines
[CSIR-RR-581] 13 p1988 N84-22905
The mechanical properties of carbon fibre with glass fibre reinforced plastics 15 p2284 N84-24710
Statistical fatigue and residual strength degradation model for glass polyester laminates
15 p2309 N84-24857
Crack-growth resistance of laminated hybrid composites 15 p2311 N84-24868
Journal of aeronautical materials (selected articles)
[AD-A140181] 16 p2434 N84-25611
Growian rotor blades: Production development, construction and test
[NASA-TM-77479] 19 p2965 N84-28793
Fracture initiation in glass-reinforced plastics under impact compression
[OUEL-1516/84] 19 p3037 N84-29265
The mechanical properties of carbon fibre with glass fibre hybrid reinforced plastics 21 p3357 N84-31292
Nuclear Magnetic Resonance (NMR) study of glass fiber-epoxy resin composites in the solid state
21 p3358 N84-31299
A study of the tribological properties of graphite fiber-glass matrix composites 23 p3710 N84-33520
High speed laser formation of small diameter apertures in printed circuit board blanks 24 p3874 N84-34547

GLASS FIBERS
Nondestructive FT-IR sampling technique to study glass fiber composite interfaces
[AD-A129871] 01 p0031 N84-10192
Design and fabrication of a fiberglass circular-weave composite flywheel
[DE83-013406] 01 p0090 N84-10589
Evaluation of multicomponent fluoride glass candidates for double crucible drawn optical fiber
[AD-A131932] 03 p0441 N84-12893
Characterization of glass-filled engineering thermoplastic composites
[DE84-000361] 04 p0492 N84-13231
Method and technique for installing light-weight, fragile, high-temperature fiber insulation
[NASA-CASE-MSC-16934-3] 07 p0966 N84-16262
The mechanoluminescence of fibreglass tubes in the plane stressed state
[DRIC-T-7014] 09 p1328 N84-18673
Fiber optic sensors
[NASA-TM-77404] 14 p2224 N84-24346
A feasibility study of the production of low loss IR fibers in space
[NASA-CR-173430] 14 p2225 N84-24351
Temperature dependance and temporal fluctuations of the birefringence of some single-mode fibers
[FI-452-TBR-56] 14 p2225 N84-24356
Composite materials in automobile weight reduction
15 p2431 N84-25599
Containerless high purity pulling process and apparatus for glass fibers
[NASA-CASE-MFS-25905-2] 22 p3564 N84-32589
Characterization of glass fiber separator material for lithium batteries 23 p3736 N84-33674

GLASS LASERS
High energy efficient solid state laser sources — slab geometry laser sources
[NASA-CR-174606] 04 p0539 N84-13548
Tunable optical sources
[AD-A140984] 18 p2845 N84-28068

Semiconductors investigated by time resolved Raman absorption and photoluminescence spectroscopy using femtosecond and picosecond laser techniques
[AD-A141381] 19 p3029 N84-29209
Alignment of multistate laser amplifiers with periodic space filtration of beam 21 p3381 N84-31452
Diagnostics for an XUV/soft X-ray laser
[DE84-012593] 21 p3410 N84-31628
A study of long aerosol initiated laser induced air breakdown plasmas
[AD-A143967] 23 p3828 N84-34279

GLASSWARE
Laboratory glassware rack for seismic safety
[NASA-CASE-ARC-11422-1] 11 p1657 N84-20808

GLASSY CARBON
Arrays of very small voltammetric electrodes based on reticulated vitreous carbon
[AD-A134031] 05 p0674 N84-14426

GLAUERT COEFFICIENT
U AERODYNAMIC FORCES
U MACH NUMBER

GLAZES
Results of an experimental program investigating the effects of simulated ice on the performance of the NACA 63A415 airfoil with flap
[NASA-CR-168288] 07 p0947 N84-16145
Ceramic glazes: Basic information
[PB84-150663] 14 p2130 N84-23772
The application of the black electrically conductive coating CHEMGLAZE L300
[ESA-PSS-01-735-ISSUE-1] 16 p2471 N84-25835
Advanced optical and thermal technologies for aperture control 16 p2517 N84-26156
Atmospheric icing on sea structures
[AD-A144448] 24 p3934 N84-34903

GLIDE ANGLES
U GLIDE PATHS

GLIDE LANDINGS
Flight-test of the glide-slope track and flare-control laws for an automatic landing system for a powered-lift STOL airplane
[NASA-TP-2128] 04 p0487 N84-13198

GLIDE PATHS
Instrument landing system critical area studies
[AD-A138228] 12 p1768 N84-21530
Simulation of a cockpit-display concept for executing a wake-vortex avoidance procedure
[NASA-TP-2300] 12 p1770 N84-21542

GLIDE SLOPES
U GLIDE PATHS

GLIDERS
NT HANG GLIDERS
World and United States aviation and space records, as of June 1, 1983 01 p0001 N84-10009
Limited performance and flying qualities validation of the SGM 2-37 powered sailplane
[AD-A131445] 02 p0178 N84-11165
Composite structural materials
[NASA-CR-174597] 03 p0347 N84-12257
Wind tunnel investigations of glider fuselages with different waistings and wing arrangements 06 p0781 N84-15116
Wind tunnel tests on an outer wing segment of the ASW-19X sailplane
[VTH-LR-369] 10 p1423 N84-19305
Kasprzyk airfoil. The first wind-tunnel tests
[NASA-TM-77757] 23 p3689 N84-33380

GLIDING
Linearised optimal control and application to a gliding projectile
[AD-A135605] 09 p1271 N84-18305
Lecture notes on the principles and practice of airplane performance prediction. Part 2: Point-performance in steady symmetric and unsymmetric flight
[VTH-LR-385-VOL-2] 10 p1429 N84-19346

GLINT
Polarization diversity combining for reduction of angular scintillation: Probability density function for a Two-Point-Scatterer target
[AD-A135859] 09 p1300 N84-18499

GLOBAL AIR POLLUTION
Global energy and CO2-induced climate change
[PB84-145895] 12 p1862 N84-22131

GLOBAL AIR SAMPLING PROGRAM
Simultaneous cabin and ambient ozone measurements on two Boeing 747 airplanes. Volume 2: January to October 1978
[NASA-TM-81733] 12 p1917 N84-22488
Tabulations of ozonesonde data, 1963 - 1980
[NASA-CR-174631] 17 p2733 N84-27375
Climatology of ozone at altitudes from 19,000 at 59,000 feet based on combined GASP and ozonesonde data
[NASA-TP-2303] 21 p3446 N84-31865
GASP cloud- and particle-encounter statistics and their application to LPC aircraft studies. Volume 1: Analysis and conclusions
[NASA-TM-85835] 24 p3923 N84-34828

GLOBAL ATMOSPHERIC RESEARCH PROGRAM
The FGGE level 3-B daily global analyses, part 1
[PB83-221051] 01 p0109 N84-10709
Report of the Fourth Session of the Joint Scientific Committee — of the WMO 02 p0256 N84-11679
FGGE/SBUV tape specification and shipping letter description
[NASA-CR-170482] 06 p0934 N84-16071
FGGE/ERBM tape specification and shipping letter description
[NASA-CR-170547] 06 p0934 N84-16072
FGGE/ERBZ tape specification and shipping letter description
[NASA-CR-170548] 06 p0934 N84-16073
Blocking in the Southern Hemisphere, during 1975-1979
[INPE-2994-PRE/446] 07 p1032 N84-16696
Transport processes in the central equatorial Atlantic and their influence on the heat content
[REPT-113] 07 p1041 N84-16752
The special effort processing of FGGE data
[NASA-CR-175214] 10 p1524 N84-19986
Research Review, 1983
[NASA-TM-86053] 12 p1850 N84-22049
Evaluation of glass model precipitation forecasts for North America during SOP-1 12 p1850 N84-22051
FGGE data impact studies in the Southern Hemisphere 12 p1850 N84-22054
SASS wind forecast impact studies using the GLAS and NEPRF systems: Preliminary conclusions 12 p1851 N84-22055
Regional correlation between TOMS total ozone from NIMBUS-7 satellite and geopotential height from the GLAS analysis 12 p1851 N84-22056
Water vapor profile retrieval simulation studies for the HIRS/MSU and AMTS/MSU sounders 12 p1851 N84-22058
Satellite observations of a monsoon depression
[NASA-CR-173590] 16 p2528 N84-26232

GLOBAL POSITIONING SYSTEM
A critique of NAVSTAR Global Positioning System, user equipment, configuration control for DoD common and Navy unique items
[AD-A131234] 01 p0008 N84-10047
High dynamic global positioning system receiver
[NASA-CASE-NPO-16171-1-CU] 03 p0330 N84-12151
Intercontinental time and frequency transfer using a global positioning system timing receiver 04 p0519 N84-13411
Engineering evaluations and studies. Volume 2: Exhibit B, part 2
[NASA-CR-171726] 06 p0794 N84-15176
Satellite-directed navigational guidance for aircraft
[H-REPT-98-510] 08 p1102 N84-17164
Synopsis and recommendations of the TSC Workshop on differential operation of NAVSTAR GPS, June 1983
[PB84-121599] 08 p1103 N84-17170
Simulation and analysis of differential global positioning system for civil helicopter operations
[NASA-CR-166534] 10 p1425 N84-19317
Frequency stability analysis of GPS (Global Positioning System) NAVSTARs 3 and 4 rubidium clocks and the NAVSTARs 5 and 6 cesium clocks
[AD-A137376] 10 p1425 N84-19318
An application of the Navstar global positioning system in navigation track reconstruction for Naval exercises
[AD-A136807] 10 p1425 N84-19321
NAVSTAR GPS simulation and analysis program
[PB84-134402] 10 p1427 N84-19332
First results of GPS time transfer to Australia 10 p1475 N84-19635
Thermal vacuum test facility
[AD-A137712] 11 p1620 N84-20607
Aerospace research and technology in Germany 12 p1763 N84-21500
Global positioning system satellite selection evaluation for aided inertial navigation
[AD-A138070] 12 p1767 N84-21527
Navigation system and method
[NASA-CASE-GSC-12508-1] 13 p1929 N84-22546
Performance evaluation of a Magnavox GPS (Global Positioning System) Z-set
[AD-A138589] 13 p1929 N84-22547
Satellite orbit theory for a small computer
[AD-A139406] 14 p2112 N84-23660
Autonomous navigation of USAF spacecraft
[AD-A139173] 14 p2114 N84-23669
Error analysis for marine geodetic control using the global positioning system
[AD-A140566] 17 p2605 N84-26687
Applications of the GPS (Global Positioning System) Geodetic Receiver System
[AD-A140567] 17 p2605 N84-26688
Navstar Global Positioning System overview
[AD-A140793] 17 p2605 N84-26691
Satellite Emission Range Inferred Earth Survey (SERIES) project
[NASA-CR-173726] 18 p2791 N84-27714
Differential NAVSTAR GPS (Global Positioning System) design concept for Harbor/Harbor entrance marine navigation
[AD-A141665] 19 p2961 N84-28769
Satellite aided navigation (INNAVSAT)
[BMFT-FB-W-84-003] 19 p2962 N84-28772
A method for determining the magnitude of Earth's gravity
[AD-D011042] 19 p3054 N84-29383
Direct measurement of Earth's vertical deflection using global positioning system
[AD-D011099] 22 p3534 N84-32373
Testing of candidate batteries for global positioning system 23 p3736 N84-33677
Navstar GPS applications to test and training 24 p3850 N84-34418
Simultaneous thermal vacuum testing of GPS drives for NavStar 24 p3862 N84-34473

GLOBAL TRACKING NETWORK
Symposium on Ocean Monitoring held in Tallinn 11 p1670 N84-20895

GLOBULAR CLUSTERS
A study of A- and B-type stars in the southern galactic halo 04 p0618 N84-14077
Surveys of globular cluster and galactic plane X-ray sources 04 p0622 N84-14102
Computer simulations of gravitational encounters between pairs of binary star systems 10 p1595 N84-20456
Chemical abundances in old open and metal-rich globular clusters in the galaxy 16 p2577 N84-26539
Tidal effects and globular clusters 16 p2578 N84-26542
A hybrid N-body/Fokker-Planck stellar dynamical code with application to late core collapse in globular clusters 17 p2775 N84-27620

GLOSSARIES
U DICTIONARIES

GLOTRAC (TRACKING NETWORK)
U GLOBAL TRACKING NETWORK

GLOVES
Heat resistant protective hand covering
[NASA-CASE-MSC-20261-2] 13 p2022 N84-23113
Heat resistant protective hand covering
[NASA-CASE-MSC-20261-1] 18 p2915 N84-28484

GLOW
U LUMINESCENCE

GLOW DISCHARGES
Aerodynamics of E-beam sustained discharges in flow
[AD-A130100] 01 p0141 N84-10926
Optical emission and mass spectrometric studies of plasma deposition
[DE83-016700] 02 p0191 N84-11243
Effect of silane fraction on the optoelectronic and photovoltaic properties of RF-glow-discharge a-Si:H prepared from SiH4 + H2 mixtures
[DE83-016730] 04 p0615 N84-14058
Vacuum ionic carburisation
[BLL-OA-TRANS-3149-(6196.3)] 08 p1122 N84-17291
Glow discharge as an atomization and ionization device
[DE84-005253] 11 p1629 N84-20662
Investigation of sheath phenomena in electronegative glow discharges
[AD-A136100] 12 p1898 N84-22359
Laser-induced etching of insulators using a dc glow discharge in silane
[DE84-007570] 14 p2151 N84-23888
Low temperature (150 to 250(0)C) deposition of n(+) and p(+) microcrystalline silicon for VLSI device contacts
[DE84-006474] 14 p2243 N84-24470
The role of metastables in reactive plasmas
[LP-206] 19 p3109 N84-29756
Impurity characteristics of TMX-U
[DE84-012413] 20 p3297 N84-30932
Research Reports of the Faculty of Engineering, no. 31
[DEC/1983/31] 21 p3476 N84-32034
Ion-molecule reactions and plasma parameters of positive column in oxygen glow discharge 21 p3476 N84-32036
Large aperture electro-optical switch
[DE84-013089] 22 p3588 N84-32728

GLUCOSE
The effects of organophosphorus anticholinesterase compounds on brain glucose and energy metabolism
[AD-A137819] 11 p1695 N84-21058
Delayed effects of proton irradiation in Macaca mulatta. 3: Glucose intolerance
[AD-A142289] 20 p3256 N84-30669
Cerebral metabolism and blood brain transport: Toxicity of organophosphorous compounds
[AD-A142705] 22 p3630 N84-33005

GLUCOSIDES
Urinary excretion of hydroxylysyl glycosides as an index of bone metabolism 23 p3808 N84-34143
Glycosaminoglycans in fetal bone mineralization 23 p3809 N84-34156

GLUES
Creep of six glues
[CETIM-1.3N.16.2] 21 p3372 N84-31398

GLUONS
Very-high-energy nuclear physics
[DE83-013379] 01 p0148 N84-10957
Quark-gluon plasma formation
[DE83-017742] 03 p0436 N84-12861
Soliton bag: Dynamics and the quark plasma
[DE84-001103] 05 p0745 N84-14895

GLUTAMIC ACID
Reactions of cerebral cortex neurons to alternating magnetic field on glutamic acid 20 p3258 N84-30681

GLUTAMINE
Stability of rat brain glutamine synthetase to oxygen toxicity (oxygen at high pressure)
[AD-A131049] 01 p0112 N84-10725

GLYCERIDES
Combustion of GAP, part 1 20 p3142 N84-29952
Kevlar-49/epoxy case skirt structural fatigue strength 20 p3143 N84-29955

GLYCERINS
U GLYCEROLS

GLYCEROLS
Polymer characterization by electrohydrodynamic ionization mass spectrometry: Probing composition and chemistry of mixtures in solution 06 p0809 N84-15264

GLYCOGENS
Metabolic characteristics of post-exercise ketosis: The protective effects of training 10 p1549 N84-20152

GLYCOLS
Nitrate ester polyether glycol prepolymers 20 p3142 N84-29947

GLYCOSIDES
U GLUCOSIDES

GNEISS
Sm-Nd isotopic systematics of the ancient Gneiss complex, southern Africa 11 p1678 N84-20950
Ion microprobe zircon geochronology of the Uivak Gneisses: Implications for the evolution of early terrestrial crust in the North Atlantic Craton 11 p1678 N84-20951

GOALS
Simulation experiments with goal-seeking adaptive elements
[AD-A140295] 16 p2546 N84-26343
An analysis of relationships among size, technology and structure in a contextually limited setting 17 p2771 N84-27597
Program plan, book 7
[NAS 1.15:86652-BK-7] 23 p3699 N84-33443

GOES SATELLITES
Enhancement of SEASAT wind-stress measurements using data from GOES
[PB84-111244] 08 p1192 N84-17773
Solar-geophysical data no. 470, October 1983. Part 2: (Comprehensive reports). Data for April 1983, December 1980, January 1981 and miscellanea
[PB84-140367] 11 p1760 N84-21483
Use of VAS multispectral data for sea surface temperature determination 12 p1836 N84-21967
Solar-geophysical data no. 470, October 1983. Part 1: (Prompt reports), data for September 1983, August 1983 and late data
[PB84-140359] 12 p1923 N84-22526
Satellite activities of NOAA, 1983 22 p3540 N84-32408
The severity of the Brazilian freeze of 1981 as monitored in real time by satellite
[INPE-2586-PRE/234] 22 p3625 N84-32967
Automated mesoscale winds derived from GOES multispectral imagery 24 p3933 N84-34895

GOGGLES
The objective evaluation of aircrew protective breathing equipment. 5: Mask/goggles combinations for female crewmembers
[AD-A134912] 08 p1201 N84-17830
Cold weather goggles. 6: Effectiveness of yellow filters
[AD-A136241] 09 p1363 N84-18904
Standards for protective goggles for use in the cold
[AD-A137288] 10 p1553 N84-20179
Effects of extended use of AN/PVS-5 night vision goggles on helicopter pilots' performance
[AD-A138126] 12 p1868 N84-22173

GOLD
Development of nondestructive full-test requirements for gold wires on multilayer thick-film hybrid microcircuits
[DE83-014368] 01 p0093 N84-10802
Control of precious-metal plating baths using electrogravimetric analysis
[DE83-016772] 02 p0196 N84-11276
Geologic map and mineral resources summary of the Farner Quadrangle, Tennessee and North Carolina
[DE83-902686] 02 p0240 N84-11576
Stress production and relief in the gold/silicon eutectic die-attach process
[DE83-015230] 03 p0369 N84-12400
Metallurgical explanation of double magnetic transitions and allied phenomena in AuFe alloys
[DE84-002024] 05 p0657 N84-14317
Study of 1/f noise in solids
[AD-A133656] 05 p0753 N84-14939
The unique surface properties of gold 06 p0815 N84-15310
Ohmic versus rectifying contacts of Au to n-GaAs by ion sputtering 09 p1393 N84-19097
Magnetron sputtered gold contacts on n-GaAs 09 p1393 N84-19098
Theory of surface enhanced Raman scattering: A prospective view
[AD-A138320] 12 p1793 N84-21690
Alaska's mineral resources
[DE84-006918] 14 p2170 N84-23998
Electrochemical and surface studies of the deposition of mercury and selenium at a gold electrode
[DE84-007209] 15 p2299 N84-24798
Holographic interferometry using 20-picosecond UV pulses to obtain time resolved hydro measurements of selenium and gold plasmas
[DE84-009485] 20 p3191 N84-30269

GOLD ALLOYS
Spectrographic investigation of gold by Grimm lamp
[CSIR-SR-283] 04 p0493 N84-13233
Moessbauer spectroscopy study of amorphous Fe87B11Au2 ribbon and its crystallization products
[DE83-018091] 06 p0924 N84-16010
Observation of the effect of solute segregation on grain boundary structure
[DE84-002964] 07 p0975 N84-16319

GOLD COATINGS
The unique surface properties of gold 06 p0815 N84-15310
Tribological characteristics of gold films deposited on metals by ion plating and vapor deposition
[NASA-TM-83572] 08 p1130 N84-17352
Protection against heat radiation in the steel industry — protective visor
[FOA-C-20500-E4] 08 p1206 N84-17864
Development of a process for manufacturing high voltage CMOS circuits and of a technology for gold bump plating for use in integrated display systems
[BMFT-FB-T-83-280] 10 p1488 N84-19732
Frictional and morphological properties of Au-MoS2 films sputtered from a compact target
[NASA-TM-83604] 11 p1664 N84-20858
Chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] 18 p2868 N84-28205
Adhesion between polymers and evaporated gold and nickel films
[NASA-TP-2360] 21 p3369 N84-31379

GOLD PLATE
U GOLD COATINGS

GONIOMETERS
In situ goniometer
[CETIM-5.41.22.0] 21 p3407 N84-31609

GOODNESS OF FIT
Algorithm for computing significance levels using the Kolmogorov-Smirnov statistic and valid for both large and small samples
[DE84-001586] 04 p0592 N84-13909
Comment on graphical methods for assessing logistic regression models by Landwehr, Pregibon and Shoemaker
[AD-A135684] 09 p1383 N84-19031
Approximations for expected values of normal order statistics with an application to goodness-of-fit
[AD-A139970] 15 p2400 N84-25401
A uniform bound for the tail probability of Kolmogorov-Smirnov statistics
[AD-A141761] 19 p3093 N84-29643
Investigation of an empirical probability measure based test for multivariate normality
[DE84-012626] 22 p3649 N84-33135

GORGES
U CANYONS

GOVERNMENT PROCUREMENT
RIM-AIR (Repairable Integrated Model for aviation) study
[AD-A131141] 02 p0169 N84-11113
The aircraft availability model: Conceptual framework and mathematics
[AD-A132927] 05 p0626 N84-14115
Life cycle costing in a dynamic environment
[AD-A133023] 05 p0757 N84-14967
Productivity improvement in a purchase division: Evaluation of a Performance Contingent Reward System (PCRS)
[AD-A133589] 07 p1050 N84-16801
Microcomputer software system development: Suggested revisions to MIL-STD-1521A for cost-effective acquisition of custom software through software engineering
[AD-A134363] 07 p1055 N84-16830
Estimating the cost of composite material airframes using the Rand Corporation Development and Procurement Costs of Aircraft parametric model (DAPCA III)
[AD-A134993] 08 p1095 N84-17120
Lessons learned--advanced attack helicopter
[AD-A135521] 08 p1104 N84-17177
HQ AFSC selection of a microprocessor development system
[AD-A134930] 08 p1210 N84-17891
US military aircraft cost handbook
[AD-A136035] 09 p1249 N84-18158
Multiyear subcontractor selection criteria analysis
[AD-A135638] 09 p1397 N84-19126
Q-GERT model of the contracting cycle
[AD-A135639] 09 p1398 N84-19127
Historical inflation program. A computer program generating historical inflation indices for Army aircraft: Revision
[AD-A137670] 11 p1599 N84-20474
Software quality measurement for distributed systems. Volume 2: Guidebook for software quality measurement
[AD-A137956] 11 p1707 N84-21129
Software quality measurement for distributed systems. Volume 3: Distributed computing systems. Impact on software quality
[AD-A137957] 11 p1708 N84-21130
Reliability model demonstration study, volume 1
[AD-A138196] 12 p1881 N84-22262
Proceedings of the Federal Acquisition Research Symposium with Theme: Government, Industry and Academe: Synergism for Acquisition Improvement
[AD-A137700] 13 p2049 N84-23293
Office automation in the acquisition environment
[AD-P002747] 13 p2049 N84-23294
Paperless solicitation and contracting
[AD-P002749] 13 p2050 N84-23296
Mechanized contract document preparation and abstract system
[AD-P002750] 13 p2050 N84-23297
Consolidation of DOD bidder's mailing list application
[AD-P002752] 13 p2050 N84-23299
Cost risk trade-offs in timing the production decision
[AD-P002753] 13 p2050 N84-23300
Managing program risk: One way to reduce cost growth
[AD-P002754] 13 p2051 N84-23301
DECISION TECHNOLOGY: The catalyst for acquisition improvement
[AD-P002755] 13 p2051 N84-23302
Designing the equitable risk contract
[AD-P002756] 13 p2051 N84-23303
Assumption of risk in the R and D environment
[AD-P002757] 13 p2051 N84-23304
An analysis of the acquisition strategy decision process along three dimensions of the acquisition improvement program
[AD-P002758] 13 p2051 N84-23305
Skunkworks 81 revisited: An update on acquisition strategy
[AD-P002759] 13 p2051 N84-23306
Assessing contracting workforce requirements in the matrixed organization
[AD-P002760] 13 p2052 N84-23307
The leader of the Army acquisition workforce
[AD-P002762] 13 p2052 N84-23309
Prerequisites for the establishment of a professional acquisition workforce
[AD-P002763] 13 p2052 N84-23310
Training requirements for changing times
[AD-P002764] 13 p2052 N84-23311
Training acquisition personnel through a local college
[AD-P002766] 13 p2052 N84-23313

Government - contractor interaction
[AD-P002768] 13 p2053 N84-23315
Needed help for the Federal Acquisition Regulation Council
[AD-P002769] 13 p2053 N84-23316
Competitive procurements: The synergistic linkage among government, industry and academe
[AD-P002773] 13 p2053 N84-23320
Competition: An integral part of the acquisition process
[AD-P002774] 13 p2054 N84-23321
Increasing spares competition in AFLC (Air Force Logistics Center)
[AD-P002775] 13 p2054 N84-23322
Award fee contract provisions as a program management tool
[AD-P002776] 13 p2054 N84-23323
Nailing down the liability issue once and for all
[AD-P002777] 13 p2054 N84-23324
Does the Prompt Payment Act insure timely contract payment?
[AD-P002778] 13 p2054 N84-23325
The make or buy decision--its nature and impact
[AD-P002779] 13 p2054 N84-23326
Multi-year procurement a 'Team approach'
[AD-P002780] 13 p2055 N84-23327
Cost risk and contract type: A normative model
[AD-P002781] 13 p2055 N84-23328
Contracting initiative: Best proposal for price
[AD-P002782] 13 p2055 N84-23329
A cost based acquisition planning model utilizing expert system concepts
[AD-P002783] 13 p2055 N84-23330
Computer Generated Acquisition Document System (CGADS)
[AD-P002784] 13 p2055 N84-23331
Computer Aided Source Selection (CASS)
[AD-P002785] 13 p2055 N84-23332
An application of the causal-integrative model
[AD-P002786] 13 p2056 N84-23333
An automated airframe production cost model
[AD-P002787] 13 p2056 N84-23334
Risk analysis: Comparing different contract types
[AD-P002788] 13 p2056 N84-23335
Managing for success in defense systems acquisition
[AD-P002789] 13 p2056 N84-23336
Nuclear reactor: On schedule and under cost
[AD-P002790] 13 p2056 N84-23337
Reshaping the philosophy of spare parts acquisition: Project PACER PRICE
[AD-P002791] 13 p2056 N84-23338
The problem of cost growth
[AD-P002792] 13 p2057 N84-23339
Economic production rate study
[AD-P002793] 13 p2057 N84-23340
Expert systems for price analysis: A feasibility study
[AD-P002795] 13 p2057 N84-23341
Contractor 'Hungriness' and the relative profitability of DoD business
[AD-P002796] 13 p2057 N84-23342
Independent cost estimates: A case study joint vertical lift aircraft (JVX) program
[AD-P002797] 13 p2057 N84-23343
An intelligent manual for price analysis
[AD-P002798] 13 p2057 N84-23344
Cost realism: Assuring more realistic contractor cost proposals
[AD-P002800] 13 p2058 N84-23346
Impact of corporate resource allocation decisions on national security objectives: Dissynergism in aerospace industrial resource planning
[AD-P002801] 13 p2058 N84-23347
Readiness planning in a peacetime environment
[AD-P002803] 13 p2058 N84-23349
Policy initiatives to achieve readiness and support objectives
[AD-P002804] 13 p2058 N84-23350
1982 US Army Materiel Development and Readiness Command (DARCOM) integrated logistic support (ILS) study finding on contracting for ILS
[AD-P002805] 13 p2058 N84-23351
The new MIL-STDs (Military standard) 1388
[AD-P002806] 13 p2059 N84-23352
Project: Acquisition strategy
[AD-P002809] 13 p2059 N84-23355
Tactical buying decisions for strategic petroleum reserve spot procurements: The tunnel theory
[AD-P002812] 13 p2060 N84-23358
Incentives for product quality need contract, cost, production and field co-operation
[AD-P002819] 13 p2061 N84-23364
A quality improvement strategy for systems acquisition
[AD-P002820] 13 p2061 N84-23365
Defense systems acquisition review process: A history and evaluation
[AD-P002822] 13 p2061 N84-23367
A concept for mission-oriented planning for system acquisition at the Defense Communications Agency
[AD-P002823] 13 p2061 N84-23368
Mortality and spareparts: A conceptual analysis
[AD-P002826] 13 p2062 N84-23371
Improving the effectiveness of award fee contracts for program management support services
[AD-P002827] 13 p2062 N84-23372
Contract requirements: A key to controlling DoD acquisition costs
[AD-P002828] 13 p2062 N84-23373
The impact of factory automation and robotics on the contracting and acquisition processes
[AD-P002830] 13 p2062 N84-23375
A survey of contractor productivity measurement practices
[AD-P002831] 13 p2063 N84-23376
Strengthening small business participation in Department of Defense extramural research and development
[AD-P002832] 13 p2063 N84-23377
Employment changes resulting from the award of contracts in labor surplus areas
[AD-P002834] 13 p2063 N84-23379
Automating the source selection process
[AD-P002835] 13 p2063 N84-23380
Increasing the Contractor/Subcontractor/Vendor bidding lists
[AD-P002836] 13 p2063 N84-23381
Selection of multiple sources in weapon systems acquisition
[AD-P002837] 13 p2063 N84-23382
The Score technique: An analytical approach for assessing the results of manufacturing reviews
[AD-P002838] 13 p2064 N84-23383
Air Force progress in implementing the phase 4 base level computer replacement program
[AD-A139378] 14 p2203 N84-24221
Now: An initial approach to collection of major materiel systems actual costs
[AD-A139845] 15 p2416 N84-25505
The 1985 NASA authorization
[GPO-31-453] 15 p2419 N84-25526
Current procurement specification design requirements for US Navy aircraft 16 p2434 N84-25615
Contract audit followup: Its impact on defense contracting
[AD-A140627] 17 p2770 N84-27587
Increasing competition for spares within AFLC (Air Force Logistics Command)
[AD-A140751] 17 p2770 N84-27588
Report on the feasibility of designing expert systems for contract price analysis
[AD-A140854] 17 p2770 N84-27590
An analysis of Department of Defense financial and acquisition policies in support of military contingency requirements
[AD-A140820] 17 p2773 N84-27607
Justification of estimates for fiscal year 1985 submitted to Congress February 1984. Other procurement, Air Force
[AD-A140835] 17 p2773 N84-27608
Justification of estimates for fiscal year 1985 submitted to Congress February 1984. Aircraft procurement, Air Force
[AD-A140837] 17 p2773 N84-27610
Incentive contracts and cost growth
[AD-A140930] 18 p2943 N84-28663
The Enforcer aircraft program: A lower-cost alternative weapon system
[AD-A141564] 19 p2955 N84-28728
System safety in aircraft acquisition
[AD-A141492] 19 p2960 N84-28763
Analysis of the acquisition costs of uniquely-built spacecraft versus multi-mission modular spacecraft surrogates for the military space program of the 1970's
[AD-A141120] 19 p3114 N84-29785
LONEX (Laboratory Office Network Experiment) cost/benefits study, volume 1
[AD-A141396] 19 p3114 N84-29786
Improving system affordability
[AD-A142387] 20 p3318 N84-31062
MIL-STD defense system software development
[AD-P003590] 21 p3341 N84-31195
Proceedings of the 5th Interservice/Industry training equipment conference Volume 1
[AD-A142774] 21 p3508 N84-32223
Effectiveness of multi-year and advance procurement contracts
[AD-P003462] 21 p3510 N84-32239
Managing aircraft/simulator concurrency
[AD-P003463] 21 p3511 N84-32240
The Program Planning Review (PPR): Milestone or millstone?
[AD-P003493] 21 p3514 N84-32259
Analysis of benefits realized from multiyear contracting for the Black Hawk helicopter
[AD-A143485] 22 p3669 N84-33254
Introduction to the airport improvement program
[AD-A144556] 24 p3857 N84-34454

GOVERNMENT/INDUSTRY RELATIONS

Space commercialization
[GPO-22-870] 01 p0017 N84-10106
Effect from introduction of new technology in the Georgian SSR 01 p0056 N84-10361
Scientific-production complexes organized in Georgia 01 p0056 N84-10362
Uzbek scientific intelligentsia under developed Socialism 01 p0056 N84-10365
Pravda article on inventions elicits response 01 p0158 N84-11040
Lack of support for introduction of Soviet inventions scored 01 p0158 N84-11042
Sixth all-union congress of inventors held 01 p0158 N84-11043
Applications of academic research neglected by industry 01 p0158 N84-11044
Policy and legal issues involved in the commercialization of space
[GPO-21-495] 01 p0163 N84-11069
Deregulating the airlines: An economic analysis
[PB83-250019] 04 p0617 N84-14070
Joint industry/university cooperation with federally supported research facilities
[GPO-24-902] 08 p1241 N84-18115
Proceedings of the Conference on Cooperative Climate Services
[PB84-152081] 12 p1863 N84-22137
Closing the gap between R and D and application in academe to better support government and industry
[AD-P002761] 13 p2052 N84-23308
Cost accounting standards: A time for government and industry action
[AD-P002767] 13 p2053 N84-23314
Government - contractor interaction
[AD-P002768] 13 p2053 N84-23315
Needed help for the Federal Acquisition Regulation Council
[AD-P002769] 13 p2053 N84-23316
Analysis of incentives for productivity-enhancing investment
[AD-P002770] 13 p2053 N84-23317
The industrial modernization incentives program: An experimental effort to improve defense contractor productivity
[AD-P002771] 13 p2053 N84-23318
The government relationship to industry in technology transfer and development
[AD-P002772] 13 p2053 N84-23319
Contractor 'Hungriness' and the relative profitability of DoD business
[AD-P002796] 13 p2057 N84-23342
Two-step industrial preparedness planning: Balancing funds and production capability
[AD-P002802] 13 p2058 N84-23348
Readiness planning in a peacetime environment
[AD-P002803] 13 p2058 N84-23349
Policy initiatives to achieve readiness and support objectives
[AD-P002804] 13 p2058 N84-23350
Contractor fraud: Government response
[AD-P002833] 13 p2063 N84-23378
Paperwork Reduction Act of 1980
[S-REPT-98-479] 14 p2248 N84-24504
Space Station commercial user development
[NASA-CR-173688] 18 p2798 N84-27756
Space station needs, attributes, and architectural options: Commercial opportunities in space
[NASA-CR-173698] 18 p2803 N84-27786
A study of space station needs, attributes and architectural options. Final briefing: Cost working group discussion session
[NASA-CR-173713] 18 p2806 N84-27810
Space station needs, attributes and architectural options. Volume 3, attachment 1, task 1: Mission requirements
[NASA-CR-173716] 18 p2806 N84-27812
Non-DOE-sponsored domestic dish activities 18 p2872 N84-28234
Photovoltaics: Electricity from Sunlight, five-year research plan, 1984-1988
[DE84-010679] 20 p3236 N84-30544
Cabin air quality
[GPO-29-522] 20 p3283 N84-30702
Science and technology report to the Congress, 1982
[DE84-901150] 20 p3313 N84-31040
National Science Foundation, volume 1
[PB84-193234] 20 p3316 N84-31061
Proceedings of the 5th Interservice-Industry Training Equipment Conference, volume 2
[AD-A142775] 21 p3515 N84-32266

Effects of expiration of the Federal energy tax credit on the National Photovoltaics Program
[NASA-CR-173900] 22 p3675 N84-33299

GOVERNMENTS
Paperwork Reduction Act amendments of 1983
[H-REPT-98-147] 02 p0303 N84-11989
Two types of values and their assessment by the collective interest
[DE83-012064] 03 p0460 N84-13031
The national space program from the fifties into the eighties
[AD-A134799] 08 p1107 N84-17197
Further delineation of the utilization of scientific literature by U.S. patents
[PB84-100734] 08 p1238 N84-18095
Scientific and technical information system for the Washington State Legislature
[PB84-100850] 08 p1241 N84-18112
Report to Congress on federal energy conservation programs, fiscal year 1981
[DOE/CE-0040] 12 p1917 N84-22489
Federal government energy management, fiscal year 1981
[DOE/CE-0043] 12 p1917 N84-22490
Transfer of civil meteorological satellites
[S-REPT-98-260] 14 p2248 N84-24503
Remote sensing and the private sector: Issues for discussion
[PB84-160777] 20 p3229 N84-30520
Government acronyms and alphabetic organizational designations used in DTIC (Defense Technical Information Center)
[AD-A142700] 20 p3314 N84-31049
Guide to programs, fiscal year 1984: Guide describing National Science Foundation programs and activities
[PB84-193226] 21 p3516 N84-32270
Department of Energy's activities to limit distribution of certain unclassified scientific and technical information
[PB84-189158] 21 p3520 N84-32302
EPA (Environmental Protection Agency) journal holdings report, 1983
[PB84-194877] 21 p3520 N84-32304
Modernization of the US national airspace system. Foundation for the future
[AD-A144332] 24 p3853 N84-34435
Introduction to the airport improvement program
[AD-A144556] 24 p3857 N84-34454

GOVERNORS
U SPEED REGULATORS

GRABENS
U GEOLOGICAL FAULTS

GRADIENT INDEX OPTICS
Attenuation measurements between 840 and 1620 nm on an optical cable in Berlin
[FI-465-TBR-22] 03 p0442 N84-12906
Optical multiplexers and demultiplexers for optical wavelength-division multiplex transmission systems
[BMFT-FB-T-83-167] 05 p0748 N84-14912

GRADIENTS
NT ELECTRON DENSITY PROFILES
NT POTENTIAL GRADIENTS
NT PRESSURE GRADIENTS
NT TEMPERATURE GRADIENTS
NT THERMOCLINES
The plasma membrane calcium pump
02 p0264 N84-11734
The use of singular value gradients and optimization techniques to design robust controllers for multiloop systems
[NASA-TM-85720] 02 p0277 N84-11815
An investigation of the use of iterative linear equation solvers in codes for large stiff systems of ODE's
[AD-A133189] 06 p0901 N84-15845
Atomic transport in metallic glasses
[AD-A136363] 09 p1282 N84-18373
Application of augmented-Lagrangian methods in meteorology: Comparison of different conjugate-gradient codes for large-scale minimization
12 p1854 N84-22076
Implementation of an optimal multicommodity network flow algorithm based on gradient projection and a path flow formulation
[AD-A136935] 13 p2029 N84-23154
Definition of the concentration gradient above flammable liquids
[DE84-008296] 20 p3149 N84-29996
Moving finite elements in 2-D. Technical report: Year 3
[DE84-008551] 20 p3282 N84-30840

GRADIOMETERS
U MAGNETOMETERS

GRADUATION
U CALIBRATING

GRAFTING
Chemical properties and film casting of radiation grafted ion-containing polymers
[AD-A138551] 13 p1963 N84-22754

GRAIN BOUNDARIES
Simple structural unit model for core-dependent properties of symmetrical tilt boundaries
[DE83-012620] 01 p0044 N84-10284
Comparison of the calculated properties of high-angle (001) twist boundaries in MnO, FeO, CoO and NiO with MgO
[DE83-015677] 02 p0201 N84-11307
Diffusive relaxation of stress concentrations at grain boundary cavities in elevated temperature creep
02 p0297 N84-11950
Grain-boundary cavitation and weld-underbead cracking in DOP-26 iridium alloy
[DE83-015406] 03 p0389 N84-12539
Grain boundary segregation and environmental degradation of a ferritic stainless steel
[DE83-016927] 04 p0502 N84-13289
Characterization of alloy 600 surfaces after exposure to a caustic environment
[DE83-018297] 04 p0503 N84-13300
Low-cycle fatigue behavior of oxygen-free high-conductivity copper at 3000C in high vacuum
[DE84-000725] 04 p0504 N84-13305
A molecular orbital model of intergranular embrittlement
[AD-A133056] 05 p0655 N84-14307
Grain boundary segregation and cavity formation in creep embrittled Cr-Mo steels 06 p0817 N84-15320
Observation of the effect of solute segregation on grain boundary structure
[DE84-002964] 07 p0975 N84-16319
Influence of the tramp elements on the properties of steel, metallurgical processes for controlling the contents of tramp elements
[BMFT-FB-T-83-189] 07 p0977 N84-16331
Effects of light and modulation frequency on spin-dependent trapping at silicon grain boundaries
[DE84-002107] 07 p1082 N84-17035
Segregation of Zn solutes to high-angles (001) twist grain boundaries in Al
[DE84-003455] 08 p1134 N84-17375
Migration of grain boundaries in ceramic materials with particular reference to the sintering process
[DE84-004086] 09 p1289 N84-18414
Theoretical-experimental analysis of the effects of grain boundaries on the electrical properties of SOI (Silicon-On-Insulator) MOSFETS
[AD-A136975] 10 p1486 N84-19718
Structural unit/grain boundary dislocation model for grain boundary structure
[DE84-003167] 10 p1589 N84-20416
Literature survey on oxidations and fatigue lives at elevated temperatures
[NASA-CR-174639] 11 p1633 N84-20674
Barriers to the migration of interphase boundaries
[AD-A137902] 11 p1633 N84-20679
Study of the structure of grain boundaries in metals
[DE84-005493] 11 p1635 N84-20689
Microstructure and microanalysis in relation to the grain boundary conductivity effect in doped ceria
11 p1741 N84-21358
Microwave sintering of ceramics
[AD-A138402] 12 p1801 N84-21744
Characterization of grain boundaries in silicon
[NASA-CR-173459] 12 p1912 N84-22460
Grain boundary engineering of mechanical strength of silicon nitride (Si3N4)
[NASA-TM-77433] 14 p2119 N84-23699
An investigation of the structure and high temperature mechanical properties of oxide dispersion strengthened alloys
[AD-A139359] 14 p2128 N84-23756
Role of Schottky disorder on the stability and structure of (100) twist grain boundaries in NiO
[DE84-006447] 14 p2243 N84-24469
Detection of expansion at large angle grain boundaries using electron diffraction
[DE84-007889] 15 p2414 N84-25496
Reduced grain boundary mobility and the sintering of molybdenum
[AD-A140265] 16 p2469 N84-25823
Crystallization of the glassy phase of grain boundaries in silicon nitride
[NASA-TM-77466] 16 p2560 N84-26421
Ion implantation metallurgy: A study of the composition, structure and corrosion behavior of surface alloys formed by ion implantation and ion beam mixing
[AD-A140713] 17 p2824 N84-26792
Boundary migration and disappearance of voids in Alpha-Al2O3 at 2000 deg C
[NASA-TM-77436] 19 p3110 N84-29758
The role of sintering in the oxidation-reduction of palladium powders
[DE84-011202] 20 p3159 N84-30059
Effect of crystallization of grain boundary phase on the high temperature strength of silicon nitride ceramics
[DE84-011786] 21 p3371 N84-31392
Influence of microalloying with titanium and boron on cold resistance of structural steel
[BLL-M-35698-(5828.4)] 22 p3551 N84-32483
On the hierarchy of interfacial dislocation structure
[DE84-014160] 23 p3719 N84-33573
Creep of LaCrO-3Cr ceramic-metallic material
24 p3877 N84-34568
Influence of boundary volume structure on grain boundary relaxation of cast heat resistant nickel alloys
24 p3877 N84-34569
Electronic properties of grain boundaries in GaAs: A study of oriented bicrystals prepared by epitaxial lateral overgrowth
[AD-A144358] 24 p3967 N84-35118

GRAIN SIZE
Plasticity of large-grain titanium alloy type VT30 in the beta area 23 p3708 N84-33508

GRAINS
Ultraviolet extinction properties of grains in the interstellar medium 03 p0476 N84-13131

GRAINS (FOOD)
NT CORN
NT RICE
NT SORGHUM
NT WHEAT

GRAMMARS
Flexible parsing
[AD-A131495] 01 p0123 N84-10803
A case grammar approach to error correction in computer programs 05 p0721 N84-14725
A linguistic overview of the Nigel text generation grammar
[AD-A134491] 07 p1057 N84-16849
Solving uninterpreted equations with context free expression grammars
[AD-A133613] 07 p1085 N84-17055
Inquiry semantics: A functional semantics of natural language grammar
[AD-A135153] 08 p1215 N84-17929
Extending grammars to new domains
[AD-A137110] 10 p1567 N84-20266
A generator of recursive descent parsers for LL(k) languages
[AD-A138061] 12 p1880 N84-22253
Systemic grammar in computation: The Nigel case
[AD-A139251] 14 p2209 N84-24262
Linguistics 22 p3684 N84-33359

GRAND CANYON (AZ)
Aircraft accident report: Las Vegas Airlines, Flight 88, Piper PA-31-350, Grand Canyon, Arizona, August 17, 1983
[PB84-910405] 19 p2960 N84-28760

GRANITE
Mechanical and transport properties of rocks at high temperatures and pressures. Task 3. Mechanical properties of rocks at high temperatures and pressures
[DE84-003438] 08 p1188 N84-17740
The transition from an Archean granite-greenstone terrain into a charnockite terrain in southern India
11 p1678 N84-20952
The greenstone belts of Zimbabwe
11 p1681 N84-20968
Utilization of digital LANDSAT imagery for the study of granitoid bodies in Rondonia: Case example of the Pedra Branca massif
[E84-10120] 14 p2167 N84-23979

GRANTS
Report to Congress on the Small Business Program of the Department of Energy
[DE84-009107] 15 p2420 N84-25534
Report of accomplishments under the airport improvement program
[AD-A142444] 20 p3132 N84-29889
Technical assistance and information dissemination for the appropriate technology small grants program
[DE84-010957] 20 p3313 N84-31042

GRANULAR MATERIALS
Granular jumps down an inclined plane
[AD-A130501] 01 p0132 N84-10863
Velocity Interferometer System for Any Reflector (VISAR): Studies of wave growth in granular explosives
[DE83-013772] 02 p0204 N84-11330
Effects of microstructure and pore fluids on the acoustic properties of granular materials
[AD-A131983] 03 p0408 N84-12668
Studies on the mechanics of rapidly flowing granular-fluid materials
[AD-A135463] 08 p1158 N84-17540

Photoelastic analysis of direct shear tests for granular materials
[BLL-M-26752-(5826.4)] 09 p1326 N84-18671
Influence of microplastic deformations on spheroidization of cementite in steel
[BLL-M-35503-(5826.4)] 12 p1795 N84-21711
Far infrared extinction coefficients of minerals of interest for astronomical observations 16 p2571 N84-26502
Origin of amorphous interstellar grains 16 p2571 N84-26503
Evolution of interstellar grains 18 p2947 N84-28684
Grain destruction in interstellar shocks 18 p2947 N84-28685
Grain formation in the expanding gas flow around cool luminous stars 18 p2947 N84-28687
The composition of interstellar grain mantles 18 p2947 N84-28688
Origins of amorphous interstellar grains 18 p2949 N84-28701
Structure in the interstellar polarization curve and the nature of the polarizing grains 18 p2950 N84-28706
Application of molecular dynamics to macroscopic particles
[DE84-011066] 20 p3186 N84-30244
Wear behaviour of steel under the action of granular interfacial minerals
[BLL-CE-TRANS-8002-(9022.09)] 21 p3363 N84-31336
USSR report: Materials science and metallurgy, no. 91
[JPRS-84129] 24 p3871 N84-34533
Structure and properties of granulated aluminum alloys containing transition metals 24 p3872 N84-34535
A comprehensive ultraviolet extinction study: Grain model and grain evolution implications 24 p3982 N84-35232

GRAPH THEORY
KWIC index for numerical linear algebra
[DE83-014889] 01 p0135 N84-10882
The travelling salesman problem in graphs with 3-edge cutsets
[AD-A133504] 06 p0902 N84-15852
A framework for solving VLSI (Very Large Scale Integration) graph layout problems
[AD-A136143] 09 p1378 N84-19003
On the facial structure of scheduling polyhedra
[AD-A136983] 10 p1591 N84-20427
An extension of matching theory
[AD-A137605] 11 p1706 N84-21120
Hidden and embedded structure in linear programs
[AD-A137773] 11 p1707 N84-21125
Attitude and shape control of large space structures 13 p2019 N84-23091
Connectivity of circulant digraphs
[MC-BW-186/83] 13 p2038 N84-23220
Hereditary subdirect irreducibility in graphs
[MC-ZW-193/83] 13 p2038 N84-23221
On mapping cube graphs on VLSI array and tree architectures
[AD-A139306] 14 p2205 N84-24234
Two infinite sequences of near polygons
[MC-ZW-194/83] 14 p2215 N84-24302
How to assemble tree machines
[AD-A139963] 15 p2330 N84-24988
The front concept and profile reduction numberings
[SNIAS-832-440-102] 15 p2397 N84-25381
A proposal for the extension of the LISP language
[INPE-3056-PRE/476] 17 p2752 N84-27463
Algebra of communicating processes with abstraction
[CWI-CS-R8403] 17 p2754 N84-27485
A graph theoretic technique for the generation of systolic implementations for shift-invariant flow graphs
[AD-A142251] 19 p3090 N84-29615
Locally 4-by-4 grid graphs
[CWI-PM-R8401] 19 p3095 N84-29659
Geodetic graphs and convexity 21 p3425 N84-31729
On the uniqueness of a regular thin near octagon on 288 vertices (or the semibiplane belonging to the Mathieu group M12)
[MC-ZW-196/83] 21 p3476 N84-32029
An infinite series of symmetric designs
[MC-ZW-202/83] 21 p3476 N84-32031
Simulation of large networks of processors by smaller ones
[AD-A143529] 22 p3643 N84-33098
Alternative labelling schemes in electromagnetic topology
[AD-A144300] 24 p3954 N84-35037

GRAPHIC ARTS
Comment on graphical methods for assessing logistic regression models by Landwehr, Pregibon and Shoemaker
[AD-A135684] 09 p1383 N84-19031
Graphic design for computer-based information management: A case study of Seedis
[DE84-005873] 12 p1919 N84-22505
Graphic design of program text
[DE84-008162] 15 p2393 N84-25360
Reports on cartography and geodesy. Series 1: Original reports, number 92
[ISSN-0469-4236] 20 p3225 N84-30495
A system for automatic digitization of cartographic line drawings 20 p3227 N84-30506
The effect of information display format on multiple-cue judgment
[AD-A142884] 21 p3459 N84-31941

GRAPHIC EVALUATION AND REVIEW TECHNIQUES
U GERT

GRAPHITE
NT PYROLYTIC GRAPHITE
Intercalated graphite electrical conductors 01 p0010 N84-10064
Advanced fatigue damage development in graphite epoxy laminates
[AD-A130190] 01 p0031 N84-10194
Structure and properties of intercalated graphite fiber-polymer composites
[AD-A130832] 01 p0032 N84-10198
Intercalate phonon densities of states for alkali-graphite compounds
[DE83-016515] 02 p0188 N84-11225
Electrographite electrodes from coal tar pitch super needle coke for electric steel manufacturing
[BMFT-FB-T-83-067] 02 p0197 N84-11281
Catalysed low-temperature production of methane from water and graphite
[DE83-012474] 02 p0203 N84-11325
Solar radiative impacts of graphitic carbon (soot) in aerosols, clouds and snow 02 p0243 N84-11592
Disparate changes in the physical properties of graphite
[DE83-015966] 03 p0357 N84-12321
Relationships between strength, electrical conductivity, and density for oxidized PGX graphite
[DE83-016184] 04 p0507 N84-13325
Origin of electron-bombardment enhanced reactivity of graphite with hydrogen
[DE83-017561] 04 p0600 N84-13960
Structure and phase transitions in bromine and potassium-mercury intercalated graphite
[AD-A133863] 05 p0645 N84-14244
Topics in graphite intercalation chemistry with applications to fiber reinforced composites 05 p0646 N84-14248
Magnetic properties of CoCl2-intercalated graphite
[AD-A133860] 05 p0648 N84-14260
Raman study of graphitic-carbon concentrations in the Western Arctic
[DE84-001090] 05 p0700 N84-14596
A model for superconductivity in graphite intercalation compounds
[AD-A133862] 05 p0753 N84-14937
The anomalous magnetoresistance of graphite at high magnetic fields
[AD-A133861] 05 p0753 N84-14938
Comparison of the characteristics of graphites irradiated at 600 and 9000 deg C
[DE83-015695] 06 p1123 N84-17297
A technique for the nondestructive detection of voids and composition anomalies in metal matrix composite wires using X or gamma rays
[AD-A135481] 06 p1132 N84-17359
Determination of the effect of strain rate on the mechanical properties of graphite-epoxy laminates
[AD-A136334] 09 p1276 N84-18328
Plasma modification of graphite fibers and its effect on composite properties
[AD-A136558] 09 p1276 N84-18329
Beam impingement angle effects on secondary electron emission characteristics of textured pyrolytic graphite
[NASA-TP-2285] 09 p1286 N84-18400
Dynamic fragmentation of ferroelectric ceramics using the torsional Kolsky bar
[DE84-003726] 09 p1289 N84-18415
Solar tests of aperture plate materials for solar thermal dish collectors
[NASA-CR-173462] 12 p1842 N84-22010
Microscopic study of the influence of impurities on interface bonding
[AD-A139300] 14 p2120 N84-23705
Adsorption and catalyzed reactions of CO and CO2 on graphite surfaces
[DE84-006625] 14 p2123 N84-23725
Status of understanding for seal materials 15 p2343 N84-25062
Residual stresses in cross-ply composite tubes
[NASA-CR-173540] 16 p2460 N84-25768
Effect of substrate chemical pretreatment on the tribological properties of graphite films
[NASA-TM-83574] 16 p2470 N84-25831
Syntheses and characterization of novel graphite intercalation compounds with inorganic fluorides
[AD-A140601] 17 p2619 N84-26762
Low temperature structure and properties of graphite lamellar compounds
[AD-A140875] 17 p2768 N84-27579
Plasma studies on ion diodes
[AD-A142183] 19 p3107 N84-29743
Graphite-ceramic RF Faraday-thermal shield and plasma limiter
[DE84-010960] 20 p3163 N84-30086
Improved graphite furnace atomizer
[DE84-011091] 20 p3190 N84-30263
The use of isotopically-enriched carbon probes for erosion deposition measurements in the ASDEX divertor
[DE84-012329] 20 p3307 N84-31006
Solid-phase reaction of dispersed graphitized material with aluminium and nickel
[BLL-M-35633-(5826.4)] 22 p3551 N84-32482
A diffusion mechanism in the catalytic conversion of carbonaceous materials into diamonds at high pressures
[CSIR-TRANS-1743] 22 p3557 N84-32526
Diamond synthesis from various graphites
[CSIR-TRANS-1749] 22 p3558 N84-32528
Natural weathering of selected organic matrix composites
[AD-A144091] 23 p3711 N84-33527
Application of quantitative microscopy to ceramics
[NASA-TM-77420] 24 p3888 N84-34618

GRAPHITE-EPOXY COMPOSITES
Curing of graphite/epoxy composites 01 p0030 N84-10186
Curing of graphite/epoxy composites
[AD-A130071] 01 p0030 N84-10191
Correction between nondestructive inspection results and performance of graphite/epoxy structural parts 01 p0034 N84-10212
Computation of influence of defects on static and fatigue strength of composites 01 p0034 N84-10217
Fracture mechanics of sublaminate cracks in composite laminates 01 p0035 N84-10218
Advanced fatigue damage development in graphite epoxy laminates 02 p0187 N84-11216
Guidelines for composite materials research related to general aviation aircraft
[NASA-CR-3720] 02 p0187 N84-11218
Prediction of impact force and duration during low velocity impact on circular composite laminates
[NASA-TM-85703] 02 p0188 N84-11219
Ballistic impact on carbon fiber reinforced epoxy composites
[FOA-C-20497-F9] 02 p0189 N84-11227
The mechanics of delamination in fiber-reinforced composite materials. Part 1: Stress singularities and solution structure
[NASA-CR-172269] 04 p0491 N84-13221
The mechanics of delamination in fiber-reinforced composite materials. Part 2: Delamination behavior and fracture mechanics parameters
[NASA-CR-172270] 04 p0491 N84-13222
Flight service evaluation of advanced composite ailerons on the L-1011 transport aircraft
[NASA-CR-172245] 04 p0491 N84-13223
Galvanic coupling between D6AC steel, 6061-T6 aluminum, Inconel 718 and graphite-epoxy composite material: Corrosion occurrence and prevention
[NASA-TP-2236] 04 p0497 N84-13263
Buckling, postbuckling, and crippling of materially nonlinear composite plates 05 p0644 N84-14239
Static and dynamic stiffness reduction of graphite/epoxy composite laminates under fatigue loading 06 p0797 N84-15194
Analysis of local delaminations and their influence on composite laminate behavior
[NASA-TM-85728] 06 p0798 N84-15199
The effect of environment on the mechanical behavior of AS/3501-6 graphite/epoxy material
[AD-A133331] 06 p0799 N84-15205
Biaxial fatigue of graphite/epoxy + or - 45 sub s tubes 06 p0799 N84-15210
Finite element analysis of moisture and external loading effects in composites 06 p0799 N84-15211
Mechanical property characterization of F-100/934 graphite-epoxy composite material 06 p0928 N84-16031
Stiffness properties for dynamic modeling of composite graphite-epoxy cylindrical orthotropic shells 06 p0932 N84-16054
A generalized couple theory of hygrothermal-elasticity: Transient effects in composite laminate with circular cavity
[AD-A134376] 07 p0968 N84-16271

Friction and wear behavior of aluminum and composite airplane skins
[NASA-TP-2262] 08 p1103 N84-17175
Effects of high energy radiation on the mechanical properties of epoxy graphite fiber reinforced composites
[NASA-CR-173293] 08 p1122 N84-17292
Effects of JP-4 fuel on Graphite/Epoxy composites
[AD-A135416] 08 p1122 N84-17296
Embedded gage impact study
[NASA-CR-172227] 08 p1161 N84-17558
Fatigue-induced and time-dependent changes in thermomechanical properties of hybrid composite laminates
[PB84-126333] 09 p1277 N84-18336
Fracture, longevity (fatigue), dynamics, and aeroelasticity of composite structures
[AD-A137047] 10 p1452 N84-19486
Fracture behavior of thick, laminated graphite/epoxy composites
[NASA-CR-3784] 11 p1627 N84-20648
Improved impact tolerant material
[NASA-CASE-LAR-12867-1] 11 p1627 N84-20649
Effect of impact damage and open holes on the compression strength of tough resin/high strain fiber laminates — graphite-epoxy composites
[NASA-TM-85756] 11 p1627 N84-20650
On the effects of post cure cool down and environmental conditioning on residual stresses in composite laminates 12 p1788 N84-21663
Hygrothermal influence on delamination behavior of graphite/epoxy laminates
[NASA-TM-85935] 12 p1826 N84-21904
Select fiber composites for space applications: A mechanistic assessment
[NASA-TM-83631] 13 p1954 N84-22702
Matrix-dominated time-dependent deformation and damage of graphite/epoxy composite experimental data under creep and recovery
[AD-A139064] 13 p1954 N84-22704
Large deformation behavior of long shallow cylindrical composite panels
[NASA-CR-173286] 13 p2000 N84-22975
Assessment of microdamage development during tensile loading of graphite/epoxy laminates
[AD-A139126] 14 p2119 N84-23701
Influence of extended exposure in space on mechanical properties of high-toughness graphite-epoxy composite material (A0019) 15 p2271 N84-24637
Evaluation of long-duration exposure to the natural space environment on graphite-polyimide and graphite-epoxy mechanical properties (A0175) 15 p2272 N84-24643
Delamination growth in notched graphite/epoxy laminates under compression fatigue loading
[FFA-TN-1983-57] 15 p2284 N84-24713
Analysis of symmetric reinforcement of quasi-isotropic graphite-epoxy plates with a circular cutout under uniaxial tensile loading
[AD-A139908] 15 p2285 N84-24715
Effects of curing stress on intralaminar cracking in graphite-epoxy laminates 15 p2308 N84-24848
Effect of initial stresses on the impact behavior of graphite-epoxy laminates 15 p2310 N84-24859
Low velocity, transverse normal impact of a clamped plate 15 p2310 N84-24860
Impact and fatigue of graphite/epoxy laminates 15 p2310 N84-24862
The effect of matrix properties and fiber properties on impact failure mechanics 15 p2310 N84-24863
Carbon structures on the wing of the regional transport plane ATR-42
[SNIAS-832-111-113] 13 p2448 N84-25704
Temperature dependence of elastic and strength properties of T300/5208 graphite-epoxy
[NASA-CR-173616] 16 p2460 N84-25767
Space radiation effects on graphite-epoxy composite materials
[NASA-TM-85478] 16 p2460 N84-25769
Composite materials: The user and the producer
[SNIAS-832-111-106] 16 p2461 N84-25772
The nonlinear viscoelastic response of resin matrix composite laminates
[NASA-CR-3772] 17 p2617 N84-26750
Composite laminates with negative through-the-thickness Poisson's ratios
[NASA-CR-173681] 18 p2809 N84-27830
Advanced composite stabilizer for Boeing 737 aircraft
[NASA-CR-157639] 19 p2965 N84-28915
Matrix-dominated time-dependent deformation and damage of graphite epoxy composite – experimental data under multiple-step relaxation
[AD-A141697] 19 p2966 N84-28920
Development and fabrication of a graphite/epoxy motor case for air launch missile applications 20 p3142 N84-29948
Rapid adhesive bonding concepts
[NASA-TM-86256] 20 p3145 N84-29968
Residual-strength tests of L-1011 vertical fin components after 10 and 20 years of simulated flight service 20 p3145 N84-29970
Tensile strength of composite sheets with unidirectional stringers and crack-like damage 20 p3146 N84-29974
Postbuckling behavior of graphite-epoxy panels 20 p3146 N84-29976
A study of stiffness, residual strength and fatigue life relationships for composite laminates
[NASA-CR-172211] 20 p3148 N84-29978
Characterization and degradation studies on synthetic polymers for aerospace application
[NASA-CR-166597] 21 p3355 N84-31284
Fracto-emission from graphite/epoxy composites
[NASA-CR-173845] 21 p3357 N84-31291
Hole interaction and load introduction effects for compression-loaded laminates with holes
[NASA-TM-86287] 22 p3544 N84-32435
Failure analysis of a graphite/epoxy laminate subjected to bolt bearing loads
[NASA-TM-86297] 22 p3544 N84-32436
Hygrothermal effects on mechanical behavior of graphite/epoxy laminates beyond initial failure
[NASA-TM-86001] 22 p3544 N84-32438
A characterization of the fracture behavior of thick, notched, laminated graphite-epoxy composites 23 p3710 N84-33519
A study of the tribological properties of graphite fiber-glass matrix composites 23 p3710 N84-33520
Fracture surface characteristics of notched angleplied graphite/epoxy composites
[NASA-TM-83786] 23 p3711 N84-33522
Compression failure mechanisms in unidirectional composites
[NASA-TM-85834] 23 p3711 N84-33523
An atomic oxygen facility for studying polymer materials for spacecraft applications 24 p3863 N84-34482
Ground exposure of composite materials for helicopters
[NASA-TM-86311] 24 p3879 N84-34577
Boundary layer thermal stresses in cross-ply composite laminates 24 p3958 N84-35057

GRAPHITE-POLYIMIDE COMPOSITES
Surface analysis of graphite fiber reinforced polyimide composites
[NASA-TM-85700] 02 p0188 N84-11220
Edge crack growth of thermally aged graphite/polyimide composites
[NASA-TM-85763] 12 p1789 N84-21667
Evaluation of long-duration exposure to the natural space environment on graphite-polyimide and graphite-epoxy mechanical properties (A0175) 15 p2272 N84-24643
Repair techniques for celion/LARC-160 graphite/polyimide composite structures
[NASA-CR-3794] 17 p2617 N84-26752
Evaluation of two polyimides and of an improved liner retention design for self-lubricating bushings
[NASA-TM-83719] 18 p2817 N84-27887

GRAPHITIZATION
Method for the production of electrographite involving about 50% reduction of electrical energy
[BMFT-FB-T-83-162] 07 p0966 N84-16275
High-quality silicon films prepared by zone-melting recrystallization 18 p2939 N84-28638

GRAPHOEPITAXY
Submicron structures technology and research 22 p3683 N84-33353

GRAPHS (CHARTS)
NT BOND GRAPHS
Estimates of millimeter wave attenuation for 18 United States cities
[PB83-240630] 02 p0211 N84-11381
Space station energy sizing 03 p0344 N84-12233
White Sands Missile Range, New Mexico Range reference atmosphere 0-70 km altitude
[AD-A132471] 04 p0567 N84-13738
Planar embedding of planar graphs
[AD-A132538] 04 p0579 N84-13820
Computerized art plotting system. Volume 1: Horizontal bar charts (second edition)
[DE83-016113] 04 p0582 N84-13839
On bisecting random graphs
[AD-A132500] 04 p0589 N84-13892
Directed graphs and traveling waves
[AD-A132861] 05 p0738 N84-14845
The long term upper ocean study (LOTUS). Cruise summary and hydrographic data report, ENDEAVOR 97, April 1983
[AD-A134005] 06 p0883 N84-15745
The travelling salesman problem in graphs with 3-edge cutsets
[AD-A133504] 06 p0902 N84-15852
An engineering data management system for computer aided design
[NLR-MP-82050-U] 09 p1405 N84-19180
Compositions for perfect graphs
[AD-A137611] 11 p1706 N84-21121
Word frequency and automatic indexing 11 p1747 N84-21401
Ascension Island, South Atlantic Range reference atmosphere, 0.66 km altitude
[AD-A138470] 12 p1861 N84-22122
A method to compute the contact force of a body impacting a ring-stiffened cylindrical shell using a lumped parameter finite-difference model
[AD-A139723] 15 p2350 N84-25109
On mapping homogeneous graphs on a linear array-processor model
[AD-A139912] 15 p2396 N84-25386
Geodetic graphs and convexity 21 p3425 N84-31729
Generation of two stage random graphs — telecommunication network analysis
[FI-032-TB-16] 23 p3732 N84-33654

GRASSES
NT SEA GRASSES
NT SORGHUM
Eddy-correlation measurements of the resistance to vertical transport of ozone
[DE83-015363] 02 p0244 N84-11600
Gravitropic responses in the grass pulvinus: Model system for asymmetric growth 02 p0263 N84-11728
The relation between isolated tree brightness temperature and grass background brightness temperature
[AD-A135843] 09 p1389 N84-19070
The role of vegetation in the low-level water budget in fog
[AD-A139099] 14 p2179 N84-24051
Measurement of unsaturated flow below the root zone at an arid site
[DE84-006575] 15 p2359 N84-25158
An analysis of the effect of biological and physical parameters of a wetlands grass biome on the spectral modeling of phytomass and primary productivity 23 p3789 N84-33891

GRASSLANDS
A study of the surface layer on an extremely rough surface
[INPE-2629-PRE/381] 02 p0248 N84-11621
Reflectance modeling 12 p1830 N84-21931
Comprehensive understanding for vegetated scene radiance relationships 12 p1830 N84-21933
Habitability of the Earth 21 p3427 N84-31740
On the SAR response of agricultural targets in a northern prairie environment 23 p3770 N84-33896

GRASSMANN ALGEBRA
U VECTOR SPACES

GRATINGS
Submicron structures technology and research 22 p3683 N84-33353

GRATINGS (SPECTRA)
NT ECHELETTE GRATINGS
A study of the angular radiation of Smith-Purcell radiation
[AD-A130095] 01 p0141 N84-10925
Switchable zero order diffraction gratings as light valves
[AD-A133010] 05 p0747 N84-14908
Theoretical aspects of laser-induced periodic surface structure formation
[AD-A134875] 08 p1164 N84-17581
Fabrication and evaluation of chirped grating lenses in lithium niobate waveguides
[AD-A137103] 10 p1579 N84-20345
Ruled and holographic gratings experiment (A0138-5) 15 p2278 N84-24682
Mathematical modelling of waveguiding techniques and electron transport, volume 2
[AD-A139604] 15 p2391 N84-25350
Mathematical modelling of waveguiding techniques and electron transport, volume 1
[AD-A139603] 15 p2397 N84-25382
Switchable zero order diffraction gratings as light valves
[AD-A142513] 20 p3300 N84-30953
Measurement of integrated circuit element dimensions taking into account real etching profile according to diffraction pattern 21 p3378 N84-31437
Dielectric-grating band-pass filters 21 p3379 N84-31442
Investigation of Bragg reflection of electromagnetic surface waves by diffraction grating 21 p3479 N84-32053

Definition, analysis and development of an optical data distribution network for integrated avionics and control systems. Part 2: Component development and system integration
[NASA-CR-172429] 22 p3657 N84-33181
Polynominal grating
[AD-D011090] 22 p3657 N84-33186

GRAVIMETERS
Control of precious-metal plating baths using electrogravimetric analysis
[DE83-016772] 02 p0196 N84-11276
The JILA (Joint Institute for Laboratory Astrophysics) portable absolute gravity apparatus
[AD-A132199] 05 p0684 N84-14495
Gravimetry 10 p1519 N84-19948
Experimental test of the gravitational inverse square law between 45 centimeters and one meter
16 p2526 N84-26221
Reports on cartography and geodesy. Series 2: Translations, number 41. Report on high precision gravimetry, volume 2
[ISSN-0469-4244] 19 p3043 N84-29306

GRAVIMETRY
Structure of the Saint Francois Mountains and surrounding lead belt, south east Missouri: Inferences from thermal IR and other data sets
[E84-10027] 01 p0099 N84-10645
Accuracy of gravimetrically determined absolute and relative geoid heights
[SER-A-97] 03 p0407 N84-12661
The JILA (Joint Institute for Laboratory Astrophysics) portable absolute gravity apparatus
[AD-A132199] 05 p0684 N84-14495
Gravimetry 10 p1519 N84-19948
Earth tides 10 p1520 N84-19951
Experimental test of the gravitational inverse square law between 45 centimeters and one meter
16 p2526 N84-26221
Analysis of POPSAT gravity model errors
[ESA-CR(P)-1883] 17 p2615 N84-26737
Uniqueness of inverse problem in gravimetry for homogeneous polyhedrons 17 p2700 N84-27201
Solution of direct problem in gravimetry on spherical Earth 17 p2700 N84-27202
Economical difference methods for solving direct problems in gravimetric and magnetic prospecting
17 p2702 N84-27209
Uniqueness in plane inverse problems in gravimetry and magnetometry 17 p2705 N84-27226
A European astro-gravimetric geoid
[SER-B-269] 17 p2727 N84-27355
Computation of a high resolution European Gravimetric Geoid (EGG 1) 17 p2727 N84-27356
Solution of direct three-dimensional problems in gravimetry and magnetometry with arbitrary continuous laws of density and magnetization distribution
18 p2861 N84-28169
Reports on cartography and geodesy. Series 2: Translations, number 41. Report on high precision gravimetry, volume 2
[ISSN-0469-4244] 19 p3043 N84-29306
Repeated gravimetric observations (collection of scientific works) 19 p3053 N84-29376
Research activities of the Geodynamics Branch
[NASA-TM-86123] 20 p3220 N84-30455
Interpreting three-dimensional gravitational and magnetic anomalies 20 p3224 N84-30486
Analysis of moisture in solids: A review of the last decade or from Pande to the present
[DE84-011166] 21 p3362 N84-31326
Observations of long-period motions of the Earth at the South Pole 21 p3440 N84-31823
A superconducting microwave parametric converter transducer sensitive to 10 to the minus nineteenth power m harmonic motion 21 p3489 N84-32112

GRAVIRECEPTORS
The Regulatory Functions of Calcium and the Potential Role of Calcium in Mediating Gravitational Responses in Cells and Tissues
[NASA-CP-2266] 02 p0262 N84-11720
Calcium ions, stores, and modulators: What is the gravity receptor connection? 02 p0264 N84-11733
NASA Space Biology Program. Eighth annual symposium's program and abstracts
[NASA-CP-2299] 09 p1351 N84-18829
Amyloplast movement in living statocytes
09 p1351 N84-18830
Inhibition of gravitropism in oat coleoptiles by calcium chelation 09 p1352 N84-18831
Mechanisms of graviperception and response in pea seedlings 09 p1353 N84-18839
Mammalian gravity receptors: Structure and metabolism 09 p1353 N84-18840
Pea amyloplast DNA is qualitatively similar to pea chloroplast DNA 09 p1359 N84-18877
Rheoceptive mediators of graviperception in a water flea: Morphological implications of antennal-socket setae in daphnia magna 09 p1360 N84-18883
Effects of suspension on tissue levels of glucocorticoid receptors 09 p1360 N84-18884

GRAVITATION
NT GRAVITY ANOMALIES
NT LUNAR GRAVITATION
NT PLANETARY GRAVITATION
NT REDUCED GRAVITY
NT SOLAR GRAVITATION
Detection of solar gravity mode oscillations
[NASA-CR-174469] 01 p0165 N84-11086
New techniques for absolute gravity measurements
[AD-A129285] 02 p0248 N84-11625
Developing higher plant systems in space
02 p0263 N84-11727
Gravitropic responses in the grass pulvinus: Model system for asymmetric growth 02 p0263 N84-11728
Two-fluid gravitational instabilities in a galactic disk
02 p0305 N84-11998
Potential means of support for materials processing in space. A history of government support for new technology
[NASA-TM-82554] 04 p0486 N84-13205
Weightlessness and management of liquid rocket propellant
[AD-A132516] 04 p0509 N84-13334
Synthesis of regional crust and upper-mantle structure from seismic and gravity data
[E84-10061] 06 p0864 N84-15631
Gravitational orientation of the orbital complex, Salyut-6--Soyuz
[NASA-TM-77299] 07 p0961 N84-16228
Computing tides, nutations and tidally-induced variations in the Earth's rotation rate for a rotating, elliptical Earth
07 p1030 N84-16675
Tidal effects in geodetic observations
07 p1030 N84-16676
Principal facts for gravity stations in the Nevada portion of the Kingman 1 degree by 2 degree quadrangle
[PB84-103084] 08 p1189 N84-17749
Amplitude distributions of the spider heartpulse in response to gravitational stimuli
09 p1353 N84-18841
Structural development and gravity
09 p1353 N84-18842
Simulating certain aspects of hypogravity: Effects on the mandibular incisors of suspended rats (PULEH model) 09 p1353 N84-18844
Growth and differentiation of mammalian embryonic tissues exposed to hypergravity in vivo and in vitro
09 p1357 N84-18869
Hyper-gravitational effects on metabolism and thermoregulation 09 p1358 N84-18871
Bubbles rising in a tube and jets falling from a nozzle
[AD-A139266] 14 p2145 N84-23858
Gravitational instability of an interface between two second-order fluids 15 p2314 N84-24887
Stability of periodic oscillations of almost axisymmetric satellite in plane of elliptical orbit
17 p2650 N84-26945
Possible interpretation of discrepancy in results of absolute gravity determination at Sevres
17 p2703 N84-27215
Suppression of asymmetric acid efflux and gravitropism in maize roots treated with auxin transport inhibitors of sodium orthovanadate
[NASA-CR-173634] 17 p2740 N84-27395
Do living cells have a good sensitivity to gravity
17 p2744 N84-27425
Repeated gravimetric observations (collection of scientific works) 19 p3053 N84-29376
The generation of a mass point model from surface gravity data
[AD-A142327] 19 p3054 N84-29382
A method for determining the magnitude of Earth's gravity
[AD-D011042] 19 p3054 N84-29383
Geodyn systems development
20 p3221 N84-30467
Projection for space geodynamics, 1988-1998
20 p3222 N84-30477
Results of a detailed gravity survey in the Alamosa area, Alamosa County, Colorado
[DE84-012188] 21 p3444 N84-31853
Three-dimensional computer model for the atmospheric general circulation experiment
[NASA-CR-171109] 21 p3446 N84-31863
Invariant formulation of and radiative corrections in quantum gravity 22 p3668 N84-33249
Viking radio science data analysis and synthesis --- rotation of Mars, solar system dynamics, and gravitational laws
[NASA-CR-173966] 23 p3843 N84-34385
A study of pollutant dispersal in a 2-dimensional field including gravity effects
[AD-A144295] 24 p3900 N84-34699
Rising bubbles in a two-dimensional tube with surface tension
[AD-A144693] 24 p3953 N84-35031

GRAVITATION THEORY
Gravitational perturbation of the hydrogen spectrum
02 p0251 N84-11646
Test of the inverse square law of gravity at distances of 5cm and 1m 04 p0593 N84-13914
Experimental test of the gravitational inverse square law between 45 centimeters and one meter
16 p2526 N84-26221

GRAVITATIONAL COLLAPSE
NT BLACK HOLES (ASTRONOMY)
Type II successful supernovae, the anatomy of shocks: Neutrino emission and the adiabatic index
[DE84-002858] 11 p1757 N84-21472
Spherically symmetric radiation in gravitational collapse 22 p3677 N84-33312

GRAVITATIONAL EFFECTS
NT STELLAR GRAVITATION
Studies of convection in a solidifying binary mixture at reduced gravity
[NASA-CR-170916] 02 p0190 N84-11231
Developing higher plant systems in space
02 p0263 N84-11727
Gravitropic responses in the grass pulvinus: Model system for asymmetric growth 02 p0263 N84-11728
Bone and calcium alterations during spaceflight
02 p0263 N84-11729
Gravitational study of the central nervous system
02 p0263 N84-11730
Polarity of the amphibian egg
02 p0263 N84-11731
Summary of study group session discussions
02 p0264 N84-11739
Dynamics of Saturn's rings 02 p0307 N84-12017
Structural analysis of a glass/space frame parabolic-trough solar collector for various operating positions
[DE84-001137] 04 p0550 N84-13622
Optimum aerodynamic maneuvers of orbiting vehicles
05 p0629 N84-14133
The 5th Symposium on Gravitational Physiology
05 p0634 N84-14166
Respiratory tract closing volume and structure of total lung capacity during seven-day hypokinesia in head-down position 07 p1045 N84-16778
Experimentally produced biped monkeys as a model for multipurpose research in gravity biology and physiology
07 p1047 N84-16789
Method and apparatus for simulating gravitational forces on a living organism
[NASA-CASE-MSC-20202-1] 07 p1050 N84-16803
The control of float zone interfaces by the use of selected boundary conditions
[NASA-CR-170959] 07 p1079 N84-17017
Principal facts for gravity stations in the Nevada portion of the Kingman 1 degree by 2 degree quadrangle
[PB84-103084] 08 p1189 N84-17749
Protein changes in leaf-sheath pulvini of barley (hordeum) induced by gravistimulation
09 p1352 N84-18832
An attempt to localize and identify the gravity sensing mechanism of plants 09 p1352 N84-18833
The role of calcium in the gravitropic response of roots 09 p1352 N84-18834
Calcium elicited asymmetric auxin transport in gravity influenced root segments 09 p1352 N84-18835
Mechanism of shoot gravitropism
09 p1352 N84-18836
Protein and carotenoid synthesis and turnover in gravistimulated root caps 09 p1352 N84-18837
Small gravitationally elicited voltage transients in pea stems 09 p1352 N84-18838
Gravitropism in leafy dicot stems
09 p1355 N84-18857
Measurement of thigmomorphogenesis and gravitropism by non-intrusive computerized video image processing
09 p1356 N84-18859
The roles of callose, elicitors and ethylene in thigmomorphogenesis and gravitropism
09 p1356 N84-18860
Biophysical mechanism of differential growth during gravitropism 09 p1356 N84-18861
Importance of gravity for plant growth and behavior
09 p1356 N84-18864
The role of gravity in leaf blade curvatures
09 p1357 N84-18865
Aromatic biosynthesis in pine tissues
09 p1357 N84-18866
Isolation and characterization of beta-glucan synthase: A potential biochemical regulator of gravistimulated differential cell wall loosening 09 p1359 N84-18882

The Schuler principle: A discussion of some facts and misconceptions
[EUT-83-E-136] 10 p1427 N84-19330
Tethers in space: Birth and growth of a new avenue to space utilization
[NASA-TM-82571] 12 p1779 N84-21607
A hazard in aerobatics: Effects of G-forces on pilots
[FAA-AC-91-61] 12 p1865 N84-22152
Ode to gravity: Depth/diameter for fresh craters on Mercury 13 p2079 N84-23470
Effect of centrifuging on survival of early larvae of common frogs 15 p2377 N84-25266
Nucleic acid content of canine liver during long-term experimental hypokinesia 15 p2377 N84-25267
Some problems in calibrating UBV photometry for effective temperature and surface gravity 15 p2422 N84-25546
The effect of gravity on the solidification of immiscible alloys — conference
[ESA-SP-219] 17 p2612 N84-26719
Ostwald ripening, interfacial energies and diffusion coefficients in monotectic systems 17 p2613 N84-26727
Approach to equilibrium of a relativistic gas 17 p2669 N84-27018
Gypsy moths and American dog ticks: Space partners 18 p2800 N84-27768
Quasicircular equatorial orbits of artificial earth satellites with allowance for light pressure 19 p2974 N84-28851
Response of the cardiovascular system to vibration and combined stresses
[AD-A142166] 19 p3066 N84-29450
NASA space biology accomplishments, 1983-84
[NASA-TM-86654] 20 p3256 N84-30684
Development of a global model for atmospheric backscatter at CO2 wavelengths
[NASA-CR-171117] 21 p3442 N84-31835
Development of a global model for atmospheric backscatter at CO2 wavelengths
[NASA-CR-171116] 21 p3442 N84-31836
Development of a global model for atmospheric backscatter at CO2 wavelengths
[NASA-CR-171127] 21 p3442 N84-31837
Pulmonary artery location during microgravity activity: Potential impact for chest-mounted Doppler during space travel
[NASA-TM-58262] 21 p3457 N84-31935
A spectrophotometric study of temporal variations in the optical spectrum of SS 433 21 p3522 N84-32312
The 64-m antenna automatic subreflector focusing controller 22 p3573 N84-32628
Publications of the NASA space biology program for 1960 - 1984 — bibliographies
[NASA-TM-86857] 22 p3628 N84-32990
Effect of gravity on halogenated hydrocarbon flame retardant effectiveness
[NASA-TM-83761] 23 p3713 N84-33536
The Gravity Relevance in Bone Mineralization Processes — conference
[ESA-SP-203] 23 p3807 N84-34138
The potential of low dose computed tomography in assessing space flight induced bone loss 23 p3807 N84-34141
The so-called Wolff's law and the adaptation of bone to microgravity 23 p3808 N84-34145
Electromechanical hypothesis of bone demineralization in weightlessness 23 p3808 N84-34149
Sensitivity of bone cell populations to weightlessness and simulated weightlessness 23 p3809 N84-34151
Use of primate model in weightlessness bone physiology: General problems 23 p3809 N84-34154
Use of primate model in weightlessness bone physiology. Histological approach after iliac crest biopsy 23 p3809 N84-34155
Optical effects of the gravitationally induced concentration gradient in tricritical 3He-4He
[DE84-009972] 23 p3830 N84-34297

GRAVITATIONAL FIELDS
NT STELLAR GRAVITATION
Geodynamics Branch research report, 1982
[NASA-TM-85078] 02 p0233 N84-11527
Gravitational perturbation of the hydrogen spectrum 02 p0251 N84-11646
Accuracy estimates of gravity potential differences between western Europe and United States through Lageos satellite laser ranging network
[AD-A131836] 03 p0406 N84-12669
Postglacial rebound observed by Lageos and the effective viscosity of the lower mantle
[NASA-TM-84982] 04 p0562 N84-13705
Large scale galactic shocks and motions of the cloud medium 04 p0620 N84-14089
Least square approximation by linear combinations of multipoles
[AD-A134099] 05 p0741 N84-14867
Light deflection and time delay in the solar gravitational field 05 p0746 N84-14900
The structure and evolution of interacting binary galaxies 05 p0763 N84-15004
On the structure of the tidal field 07 p1030 N84-16679
The delineation and interpretation of the Earth's gravity field
[NASA-CR-173310] 08 p1185 N84-17722
Soviet investigations of Earth's gravity field 11 p1670 N84-20897
Density inhomogeneities in upper mantle of eastern Indian Ocean 17 p2702 N84-27210
Possible interpretation of discrepancy in results of absolute gravity determination at Sevres 17 p2703 N84-27215
Gravity field response to elastic deformations of Earth 18 p2862 N84-28172
Contribution to the dynamics of extended bodies: Gravitational interaction
[SER-C-288] 18 p2952 N84-28711
First- and second-phase gravity field solutions based on satellite altimetry
[AD-A142256] 19 p3054 N84-29361
The generation of a mass point model from surface gravity data
[AD-A142327] 19 p3054 N84-29362
A method for determining the magnitude of Earth's gravity
[AD-D011042] 19 p3054 N84-29363
Algebraically special, nonaligned nonnull Einstein-Maxwell fields
[MATHS-RES-178] 19 p3114 N84-29783
Accuracy of mapping the Earth's gravity field fine structure with a spaceborne gravity gradiometer mission 20 p3222 N84-30473
Relative motion characteristics of 2 near-Earth Satellites
[NASA-CR-173887] 22 p3678 N84-33316
Future of laser interferometry in space 24 p3906 N84-34737
Numerical simulations of collisions in self-gravitating systems 24 p3967 N84-35237

GRAVITATIONAL POTENTIAL
U GRAVITATIONAL FIELDS

GRAVITATIONAL RADIATION
U GRAVITATIONAL WAVES

GRAVITATIONAL WAVE ANTENNAS
Analysis of some filtering and data analysis methods for gravitational wave antennas with resonant transducers
[IFSI-82-11] 03 p0362 N84-12359
Data analysis for gravitational wave antenna with resonant transducers
[IFSI-82-12] 03 p0363 N84-12360
Study of a gravitational antenna coupled to a resonant capacitive transducer: Equivalent circuit and noise spectra
[IFSI-82-3] 05 p0677 N84-14450
Double parametric oscillator — gravitational antennas
[IFSI-83-1] 05 p0677 N84-14451
Control of the HP3325 frequency synthesizer by a PDP 11 computer for gravitational experiments — gravitational antennas, geophysical studies
[IFSI-83-9] 05 p0683 N84-14492
Simplified analysis of a capacitive resonant transducer with a SQUID amplifier — gravitational antennas
[IFSI-83-4] 05 p0686 N84-14508
Gravitational antenna with non tuned resonant transducer
[IFSI-84-1] 18 p2831 N84-27972
Resonant parametric transducer
[IFSI-83-10] 18 p2835 N84-27995
Report in interplanetary space physics
[ISFI-84-8] 18 p2950 N84-28708

GRAVITATIONAL WAVES
Topics in gravitation and gauge fields 02 p0247 N84-11616
Correlation between two spacecraft in the Doppler detection of a gravitational background radiation
[IFSI-83-7] 03 p0363 N84-12362
Physics at the proposed National Underground Science Facility
[DE84-001345] 04 p0488 N84-13203
Activities in interplanetary space physics
[IFSI-82-7] 05 p0761 N84-14993
Description of 1982 activities in interplanetary physics
[IFSI-83-5] 05 p0761 N84-14994
Electromagnetic, gravitational, and neutrino waves in flat and curved spacetime 06 p0941 N84-16111
A search for gravitational radiation from PSR 1937 + 214 08 p1185 N84-17717
The search for gravitational waves with ISPM 09 p1263 N84-18241
Internal gravitation waves in a stably stratified atmosphere
[KBMI-WR-84-1] 15 p2368 N84-25206
Joint Soviet-American project for detection of gravitational waves 19 p2972 N84-28840
Two-dimensional finite amplitude mountain waves in the presence of moisture 22 p3622 N84-32947
Secular stability of rotating stars
[DE84-014011] 23 p3839 N84-34353

GRAVITY
U GRAVITATION

GRAVITY ANOMALIES
On gravity from SST, geoid from SEASAT, and plate age and fracture zones in the Pacific
[E84-10025] 02 p0238 N84-11559
Two stochastic modeling problems in communications and navigation
[AD-A133458] 06 p0905 N84-15873
Principal facts for gravity stations in the Nevada portion of the Kingman 1 degree by 2 degree quadrangle
[PB84-103084] 08 p1189 N84-17749
The effect of vertical datum inconsistencies on the determination of gravity related quantities
[AD-A137881] 11 p1682 N84-20978
Application of Magsat lithospheric modeling in South America. Part 1: Processing and interpretation of magnetic and gravity anomaly data
[E84-10115] 13 p2005 N84-23008
Geodetic use of GEOSAT-A
[AD-A137993] 13 p2011 N84-23048
Elysium Region, Mars: Characterization of tectonic features 13 p2089 N84-23534
Geophysical investigations of the Dufek intrusion and the surrounding region 14 p2161 N84-23945
Relating geoid anomalies, gravity anomalies and ocean topography
[AD-A140112] 15 p2354 N84-25127
Satellite elevation magnetic and gravity models of major South American plate tectonic features 15 p2355 N84-25131
Long-wavelength magnetic and gravity anomaly correlations of Africa and Europe 15 p2356 N84-25135
Relation of MAGSAT and gravity anomalies to the main tectonic provinces of South America 15 p2357 N84-25138
A crustal structure study of South America 15 p2357 N84-25139
Principal facts, base station descriptions and plots for gravity stations on and near the Butte 1 degree x 2 degree quadrangle, Montana
[PB84-168103] 15 p2369 N84-25216
Local gravity anomalies and crustal density inhomogeneities in southern Kurile Islands 17 p2701 N84-27205
Gravity computations at low altitudes 18 p2861 N84-28167
Interpretation of gravitational anomalies on Mars, Venus and Earth 19 p2975 N84-28859
Preparation of residual gravity maps for the southern Cascade Mountains, Washington using Fourier analysis
[DE84-012546] 19 p3055 N84-29384
Interpreting three-dimensional gravitational and magnetic anomalies 20 p3224 N84-30486
Nonlinear inverse methods applied to interpreting gravity anomalies produced by multi-interfaced geologic bodies 21 p3440 N84-31822
Complete Bouguer gravity anomaly map, Cascade Mountains, Washington
[DE84-012548] 21 p3445 N84-31856
Direct measurement of Earth's vertical deflection using global positioning system
[AD-D011099] 22 p3534 N84-32373

GRAVITY GRADIENT SATELLITES
Simplified analysis of the problem of retrieval for a stabilized artificial satellite by a gravity gradient
[INPE-2756-PRE/332] 09 p1270 N84-18295
Capture of satellite stabilized by gravity gradient with a flexible mast during and after deployment
[INPE-2749-PRE/325] 10 p1436 N84-19383
Satellite attitude stability provided by a rotor subjected to difficult operating conditions
[INPE-2747-PRE/323] 10 p1436 N84-19384

GRAVITY GRADIOMETERS
Spaceborne Gravity Gradiometers
[NASA-CP-2305] 09 p1335 N84-18716
Spaceborne Gravity Gradiometers. Part 1: Summary and recommendations 09 p1335 N84-18717
Spaceborne Gravity Gradiometers. Part 2: Role of gravity gradiometers in NASA's programs 09 p1335 N84-18718
Spaceborne Gravity Gradiometers. Part 3: Instrument status and prospects 09 p1335 N84-18719
Spaceborne Gravity Gradiometers. Part 4: Common problems 09 p1336 N84-18720

Spaceborne Gravity Gradiometers. Part 5: Development plan 09 p1336 N84-18721
On recent progress in and utilization of astrogeodetic-inertial and astrogeodetic-gradiometric gravity vector determination
[AD-A136263] 10 p1526 N84-19993

GRAVITY PROBE B
GP-B error modeling and analysis
[NASA-CR-170965] 09 p1372 N84-18960
Helium thrustor propulsion system for precise attitude control and drag compensation of the gravity Probe-B satellite 21 p3349 N84-31242

GRAVITY WAVES
NT BAROCLINIC WAVES
Microwave backscattering from short gravity waves. A deterministic, coherent and dual-polarized laboratory study
[AD-A131217] 01 p0111 N84-10719
Rising bubbles
[AD-A131572] 03 p0371 N84-12418
A case study of gravity wave-convective storm interactions 03 p0406 N84-12659
On the growth of gravity-capillary waves by wind
[KNMI-WR-83-10] 03 p0412 N84-12696
Aircraft hazard assessment from a clear-air radar and meteorological tower study of gravity wave events — effect on airspeed
[PB83-257139] 05 p0710 N84-14650
F-region variability and HF-propagation 06 p0869 N84-15658
The nature of microwave backscattering from water waves 06 p0870 N84-15665
Numerical simulations of convectively excited gravity waves
[DE84-001867] 06 p0879 N84-15718
Ocean temperature changes induced by tropical cyclones 06 p0879 N84-15722
A novel algorithm for sea surface height estimation using complex SAR data 07 p1060 N84-16873
On modifications of the Zakharov equation for surface gravity waves
[AD-A135050] 08 p1217 N84-17943
The vertical propagation of internal gravity waves in a compressible atmosphere 10 p1538 N84-20080
Characteristics of wind direction meander during onshore flow at a coastal site
[DE84-004178] 11 p1688 N84-21007
Vertical and horizontal phase propagation in the mesopause region observed by the OI5577 angstrom, O/sub 2 atmospheric band, NaD and OH(8,3) band nightglow emissions
[INPE-3022-PRE/460] 12 p1846 N84-22035
Observations of inertio-gravity waves in the wake of Hurricane Frederic
[AD-A139044] 15 p2373 N84-25239
Is VHF Fresnel reflectivity due to low frequency buoyancy waves? 17 p2684 N84-27089
Effects of geophysical noise on the accuracy of wind determination 17 p2687 N84-27113
Techniques for studying gravity waves and turbulence 17 p2688 N84-27115
Techniques for studying gravity waves and turbulence: Horizontal, vertical and temporal resolution needed 17 p2688 N84-27116
Determination of vertical and horizontal wavelengths of gravity waves 17 p2688 N84-27119
Techniques for studying gravity waves and turbulence: Vertical wind speed power spectra from the troposphere and stratosphere obtained under light wind conditions 17 p2688 N84-27120
Drift movement of aerosol particles in field of atmospheric gravity waves 17 p2706 N84-27242
Non-Gaussian statistical models of surface wave fields for remote sensing applications 17 p2715 N84-27284
Evolution of nonlinear wave groups on water of slowly-varying depth
[AD-A141260] 18 p2837 N84-28008
Well-developed convective cloud cover as source of internal waves 18 p2865 N84-28187
Research status and recommendations from the Alaska workshop on gravity waves and turbulence in the middle atmosphere
[AD-A140939] 18 p2879 N84-28281
The nature of microwave backscattering from water waves
[AD-A141877] 19 p3006 N84-29056
The transient gravity wave critical layer
[AD-A141095] 19 p3053 N84-29377
Transition bifurcation branches in non-linear water waves
[CAR-8418] 21 p3398 N84-31556
Finite-amplitude interfacial waves
[AD-A142767] 21 p3444 N84-31849
Radio scintillations observed during atmospheric occultations of Voyager: Internal gravity waves at Titan and magnetic field orientations at Jupiter and Saturn 21 p3525 N84-32331

GRAVSAT SATELLITE
Spaceborne Gravity Gradiometers
[NASA-CP-2305] 09 p1335 N84-18716
Interior of the Earth 20 p3218 N84-30443
Relative motion characteristics of 2 near-Earth Satellites
[NASA-CR-173887] 22 p3678 N84-33316

GRAZING INCIDENCE
Technical support for AXAF
[NASA-CR-170950] 06 p0917 N84-15959
The study of the physics of cometary nuclei
[NASA-CR-173519] 13 p2091 N84-23543
Measurements of high resolution spectra on the Omega laser at Rochester University
[DE84-012419] 20 p3195 N84-30290

GRAZING LANDS
U GRASSLANDS

GREASES
Some observations on the performance of Fomblin Z25 oil and Braycote 3L-38RP grease in ball bearings and gear boxes 09 p1296 N84-18467
The low temperature behavior of lubricant greases 18 p2819 N84-27902
Thickener/fluid interaction in lubricating greases
[AD-A142276] 20 p3161 N84-30076

GREAT BRITAIN
U UNITED KINGDOM

GREAT CIRCLES
Path discrepancies between great circle and rhumb line
[NASA-TM-85522] 08 p1102 N84-17168

GREAT LAKES (NORTH AMERICA)
NT LAKE ERIE
NT LAKE MICHIGAN
NT LAKE ONTARIO
NT LAKE SUPERIOR
Mariners weather log, volume 27, number 3, summer 1983
[PB84-108356] 08 p1192 N84-17771
Great lakes monthly hydrologic data
[PB84-114545] 09 p1339 N84-18745
Water resources data for Minnesota, water year 1982. Volume 1: Great Lakes and Souris-Red-Rainy River Basins
[PB84-163047] 14 p2171 N84-24007
Development of Great Lakes algorithms for the Nimbus-G coastal zone color scanner
[NASA-CR-173511] 17 p2711 N84-27258
Partitioning of toxic trace metals between solid and liquid phases in the Great Lakes
[PB84-177849] 20 p3230 N84-30525

GREAT PLAINS CORRIDOR (NORTH AMERICA)
Evaluation of a native vegetation masking technique
[E84-10108] 12 p1829 N84-21926
Crop moisture estimation over the southern Great Plains with dual polarization 1.66 centimeter passive microwave data from Nimbus 7
[E84-10163] 17 p2710 N84-27255

GREEN THEOREM
U GREEN'S FUNCTIONS

GREEN'S FUNCTIONS
Heat checking in the contact zone of a face seal: A three-dimensional model of a single moving asperity
[AD-A130756] 01 p0079 N84-10513
Scattering of waves by irregularities in periodic discrete lattic spaces. Part 2: Calculations
[AD-A130665] 01 p0140 N84-10917
Application of the Green's function method to some nonlinear problems of an electron storage ring. Part 1. The Green's function for the Fokker-Planck equation
[DE83-014829] 02 p0282 N84-11850
Liouvillian Green's-function theory of spectral line shape
[AD-A132467] 04 p0589 N84-13894
Nonlinear Green's function method for transonic potential flow 06 p0779 N84-15104
Theory of elementary excitations in intermediate valence materials
[DE84-003705] 07 p1083 N84-17044
Applications of Non-Self-Adjoint operator theory to the Singularity Expansion Method (SEM) and to the Eigenmode Expansion Method (EEM) in acoustic and electromagnetic problems
[AD-A135177] 08 p1219 N84-17955
A study of waves on a curved space-time 08 p1237 N84-18083
Integral green's function solutions to differential equations
[AD-A138077] 12 p1894 N84-22335
Investigation of the numerical method of moments for digital computer determination of Green's functions
[AD-A138374] 12 p1894 N84-22339
Panel method for perturbations of transonic flows with finite shocks 16 p2442 N84-25689
Annual report on grant AFOSR-80-0228
[AD-A140512] 16 p2550 N84-26365
Integral equations of electrodynamics in stratified media
[REPT-223] 17 p2757 N84-27501
Green's function for a dielectric wave-guide filled with a dispersion medium
[ISSN-0208-5658] 19 p3003 N84-29032
On continuous distributions of dislocations in nonlocal elasticity
[AD-A141858] 19 p3036 N84-29257
An integral equation for the solution of nonlinear wave equations 22 p3529 N84-32347
A 1-dimensional disk model simulation for klystron design
[DE84-013793] 22 p3588 N84-32727
Rectangular heat source on a semi-infinite solid: An analysis of a thin film heat flux gage
[DE84-012234] 22 p3599 N84-32796
Invariant formulation of and radiative corrections in quantum gravity 22 p3668 N84-33249
Existence and equivalence of solutions of mixed problems for Euler's hydrodynamic equations
[ISSN-0208-5658] 23 p3745 N84-33738
Green's function for a plane waveguide formulated with electronic plasma
[ISSN-0208-5658] 23 p3826 N84-34265

GREENHOUSE EFFECT
Response of the North American corn belt to climate warming, CO2
[DE83-017873] 04 p0564 N84-13721
Commentary on the recent CO2-climate controversy
[DE83-016367] 04 p0565 N84-13722
Response to W. W. Kellogg carbon dioxide and climatic change: Implications for mankind's future
[DE84-002723] 06 p0882 N84-15737
Can we delay a greenhouse warming
[DE84-900198] 07 p1027 N84-16658
Can we delay a greenhouse warming
[DE84-003390] 08 p1183 N84-17703
Changing climate
[PB84-148576] 12 p1862 N84-22135
Joint hearing on carbon dioxide and the greenhouse effect. Testimony presented to Subcommittee on Natural Resources, Agriculture Research and Environment and Subcommittee on Investigations and Oversight of the Science and Technology Committee, US House of Representatives
[DE84-007527] 15 p2372 N84-25230
The carbon dioxide research plan, a summary
[DOE/ER-0178] 16 p2528 N84-26228
Assessing the impact of climatic change in cold regions
[IIASA-SR-84-1] 19 p3057 N84-29364
Spatial patterns of climate and climatic change. Part 1: Summary report, appendices 1-5
[DE84-010253] 19 p3059 N84-29408
Response to W. W. Kellogg's Carbon Dioxide and Climatic Change
[DE84-010986] 20 p3241 N84-30577

GREENLAND
Glaciological applications of LANDSAT images in connection with hydropower investigations in West Greenland 03 p0398 N84-12598
A multi-element study of ISUA iron-formation, W-Greenland 11 p1680 N84-20961
Thule Geophysical Observatory: Magnetic results, 1978
[ISBN-87-7478-211-8] 19 p3053 N84-29372
Godhavn Geophysical Observatory: Magnetic results, 1977
[ISBN-87-7478-213-4] 19 p3055 N84-29385
Thule Geophysical Observatory: Magnetic results, 1975
[ISBN-87-7478-206-1] 19 p3055 N84-29386
Thule Geophysical Observatory: Magnetic results, 1976
[ISBN-87-7478-208-8] 19 p3055 N84-29387
Thule Geophysical Observatory: Magnetic results, 1977
[ISBN-87-7478-209-6] 19 p3055 N84-29388
Thule Geophysical Observatory: Magnetic results, 1979
[ISBN-87-7478-214-2] 19 p3055 N84-29389
The geology and petroleum resources of basins in the Asian Arctic and offshore east Greenland
[DE84-012114] 21 p3431 N84-31772
Statistical lineament analysis in South Greenland based on LANDSAT imagery 23 p3770 N84-33901
Surface based brightness temperatures of sea ice in the Bering and Greenland Seas 23 p3773 N84-33918

GRIDS
Multigrid semi-implicit hydrodynamics revisited
[DE83-012675] 01 p0081 N84-10526
Research, development and demonstration of lead-acid batteries for electric vehicle propulsion
[DE84-000468] 04 p0527 N84-13464
Research, development and demonstration of advanced lead-acid batteries for utility load leveling
[DE84-002683] 05 p0676 N84-14444
Vectorized multigrid Poisson solver for the CDC CYBER 205 10 p1561 N84-20230
An interpolation and compaction technique for gridded data
[AD-A137107] 10 p1569 N84-20276
Getting the current out 12 p1836 N84-21986
Contour-to-grid transformation: Development of a method for generation of a sparse grid structure out of terrain elevation contours
[FOA-C-30349-E1] 15 p2359 N84-25156
Local uniform mesh refinement with moving grids
[AD-A141782] 19 p3068 N84-29602
BGRID: A block-structured grid generation code for wing sections
[NASA-CR-166317] 23 p3814 N84-34187
GRIDS (MATHEMATICS)
U COMPUTATIONAL GRIDS
GRIFFITH CRACK
Fracture mechanics of sublaminate cracks in composite laminates 01 p0035 N84-10218
GRINDING (COMMINUTION)
Grinding of cast iron with wheels made of superhard materials
[CSIR-TRANS-1687] 01 p0056 N84-10368
Influence of vibration grinding on the properties of tungsten powders and the quality of sintered pieces
[BLL-M-35373] 06 p1140 N84-17414
Air-jet milling of grinding materials
[NASA-TM-77366] 09 p1291 N84-18430
Precision machining application and technology: An overview and perspective
[AD-A135988] 09 p1390 N84-19075
Grinding kinetics and equilibrium states
[NASA-TM-77430] 19 p3002 N84-29025
GRINDING (MATERIAL REMOVAL)
NT METAL GRINDING
Ultrasonic machining (impact grinding)
[DE84-007783] 15 p2344 N84-25069
Spherical lapping velocities
[DE84-005734] 15 p2344 N84-25070
Grinding with Borazon: Progress and rewards
[CSIR-TRANS-1718] 21 p3375 N84-31420
Optimizing tools for generating spherical surfaces and polishing powders in optical production technology
[BMFT-FB-T-84-094] 21 p3499 N84-32178
GRINDING MACHINES
The Grindomatic or the optimization of cutting conditions during production for plunge-cut grinding
[CRIF-MC-78] 07 p1012 N84-16569
Aspects of the grinding process
[CSIR-TRANS-1694] 06 p1140 N84-17416
Creep feed grinding: Advanced profile grinding technology 09 p1292 N84-18439
Internal grinding of high-speed steels: Shorter processing times with boron nitride grinding tools
[CSIR-TRANS-1719] 21 p3376 N84-31421
Economic use of CBN grinding tools in the production of jet turbine components
[CSIR-TRANS-1736] 22 p3563 N84-32561
New machines for grinding, facetting and profiling hard materials
[CSIR-TRANS-1750] 22 p3603 N84-32821
GRINDING MILLS
New profilable bond system for diamond and CBN grinding wheels
[CSIR-TRANS-1707] 06 p0813 N84-15294
Influence parameters of impact grinding mills
[NASA-TM-77352] 10 p1471 N84-19607
GRIT
Grit blasting a distributed roughness based on a 30% probability of exceedance
[AD-A136779] 13 p1974 N84-22809
Abrasive tip treatment for use on compressor blades
[NASA-CR-174666] 15 p2343 N84-25065
GROOVES
The erosion of streamlined islands, longitudinal grooves and scour marks: Implications to the origin of the Martian outflow channels 13 p2084 N84-23504
Spectral analysis of groove spacing on Ganymede 15 p2426 N84-25570
Laser window with annular grooves for thermal isolation
[DE84-011114] 21 p3410 N84-31625
Modified reflex-percussive grooves for runways
[AD-A143569] 22 p3538 N84-32400
Improved monogroove heat pipe design: Insulated liquid channel with bridging wick
[NASA-CASE-MSC-20497-1] 24 p3899 N84-34692
GROOVING
Experimental investigation of the turbulent flow in smooth and longitudinal grooved tubes
[MPIS-3/1983] 07 p1004 N84-16510
Analytical and experimental study of grooved pavement runoff
[AD-A141021] 18 p2798 N84-27752
Influence of plasma flow on flute instability
[DE84-013314] 23 p3829 N84-34285
GROUND BASED CONTROL
NT AIR TRAFFIC CONTROL
NT AUTOMATED EN ROUTE ATC
Study of the FAA (Federal Aviation Administration) program to modernize maintenance operations
[AD-A142295] 20 p3125 N84-29648
GROUND CREWS
Sustained Intensive Air Operations: Physiological and Performance Aspects
[AGARD-CP-338] 11 p1696 N84-21062
GROUND EFFECT
A study of the aerodynamic interactions of the tail rotor and fin
[AD-A130757] 01 p0005 N84-10030
The Tracked Wing in Ground-Effect (TWIG)
03 p0330 N84-12155
Ground and inflight operational effects of APU's
03 p0335 N84-12182
Ground effect on a rotor wake
[ISBN-0-902937-93-6] 11 p1601 N84-20484
The influence of ground conductivity on the structure of RF radiation from return strokes
[NASA-TM-86065] 12 p1860 N84-22117
Ground and inflight operational effects of APU's
[VFW-30/83-O] 16 p2562 N84-26438
GROUND EFFECT (AERODYNAMICS)
Analytical model of rotor wake aerodynamics in ground effect
[NASA-CR-166533] 04 p0480 N84-13157
A study of helicopter rotor aerodynamics in ground-effect at low speeds 06 p0779 N84-15106
Investigation of operational and design factors resulting from main rotor and tail rotor interactions
[AD-A137710] 11 p1603 N84-20497
An investigation of turbulence mechanisms in V/STOL upwash flow fields
[AD-A137775] 11 p1603 N84-20498
Introduction and review of some jet interference phenomena relevant to V/STOL aircraft
16 p2436 N84-25626
Hover test of a full-scale hingeless rotor
[NASA-TM-85990] 23 p3692 N84-33401
GROUND EFFECT (COMMUNICATIONS)
Frequency correlation of HF skywave ground backscatter Doppler spectra
[PB84-204353] 22 p3578 N84-32668
Statistics at HF skywave ground backscatter Doppler spectra
[PB84-204873] 22 p3578 N84-32669
GROUND EFFECT MACHINES
NT HOVERCRAFT GROUND EFFECT MACHINES
World and United States aviation and space records, as of June 1, 1983 01 p0001 N84-10009
Fast Multi Purpose Combat Craft Concept (FMPCC) for a high speed naval craft
[MBB-UT-18-82-OE] 02 p0207 N84-11351
LACV-30 increased payload study
[AD-A133804] 05 p0663 N84-14355
Airplane take-off system
[AD-D011204] 24 p3856 N84-34449
GROUND STATE
Elementary reactions of NH2 radicals in the gas, phase 3
[MPIS-2/1983] 05 p0652 N84-14265
Radiative collisional laser feasibility demonstration
[AD-A135793] 09 p1322 N84-18640
Crystal-field splittings of the Hund ground states of ndN ions in S4 symmetry: Theory and application to the Ga-3+ Gd-3Sc-2Ga-3O-12
[AD-A140623] 17 p2788 N84-27574
Infrared nonlinear optics 22 p3682 N84-33346
GROUND STATIONS
NT DEEP SPACE INSTRUMENTATION FACILITY
NT EARTH TERMINALS
A compact Q-K/band dual frequency feed horn
[AD-A130258] 01 p0063 N84-10416
African Doppler surveys (ADOS)
[AD-A131135] 02 p0240 N84-11574
Design issues in the GCF Mark 4 development
04 p0520 N84-13415
Modular approach for satellite communication ground terminals
[NASA-CR-168327] 07 p0991 N84-16425
CNPq/INPE LANDSAT system
[E84-10071] 07 p1020 N84-16618
Assessments by satellite of meteorological data for water resources
[INPE-2949-PRE/432] 07 p1023 N84-16635
Results of permanent Doppler measurements at the satellite observation station Wettzell
08 p1174 N84-17646
Tracking and data acquisition system for the 1990's. Volume 5: TDAS ground segment architecture and operations concept
[NASA-CR-175197] 10 p1434 N84-19373
First results of GPS time transfer to Australia
10 p1475 N84-19635
Operational status of the LANDSAT-5 ground station
10 p1523 N84-19976
Current status of th Brazilian LANDSAT facilities
10 p1523 N84-19977
NOAA position for TM data distribution
10 p1524 N84-19981
ERS-1 Mission: Fucino Station
[ESA-CR(P)-1831-VOL-2] 12 p1809 N84-21792
X-band uplink technology demonstration at DSS-13
16 p2479 N84-25893
DSS 13 microprocessor antenna controller
16 p2479 N84-25897
Goldstone R/D high speed data acquisition system
16 p2480 N84-25899
Analysis of housekeeping radiolinks satellite/ground station
[INPE-3097-NTE/217] 17 p2652 N84-26957
Sensitivity of SLR baselines to errors in Earth orientation 20 p3220 N84-30461
Photovoltaic power system for satellite Earth stations in remote areas: Project status and design description
[NASA-TM-83789] 23 p3730 N84-33642
A further study on the spatial correlation of the total electron content at pairs of subionospheric points located at the Crest Zone of the Equatorial Anomaly
24 p3956 N84-35046
Lunar variations of cosmic ray intensity
24 p3993 N84-35272
GROUND SUPPORT EQUIPMENT
Advanced Ultra-Violet (UV) aircraft fire detection system. Volume 3: Ground Support Equipment (GSE) for system check-out
[AD-A130298] 01 p0006 N84-10039
Spacelab data book
[ESA-BR-14] 09 p1273 N84-18315
Optimization of two-coordinate surface radar station by combination of technical and economic indices
17 p2630 N84-26825
Space station needs, attributes, and architectural options: Space station program cost analysis
[NASA-CR-173696] 18 p2803 N84-27790
Comparison of airborne turbulence-indicating doppler radar systems with ground-based doppler radar systems
[AD-A141474] 19 p3005 N84-29043
Evaluation of aircraft battery charge, discharge, and analyzation requirements for ground support equipment
[AD-A144243] 24 p3897 N84-34678
GROUND SUPPORT SYSTEMS
Operational applications of military test ranges in space transportation system programs
[AD-A132535] 04 p0490 N84-13217
An Attached Payload Operations Center (APOC) at the Goddard Space Flight Center (GSFC), volume 2
[NASA-CR-175160-VOL-2] 08 p1108 N84-17203
Spacecraft command-measurement complex
09 p1264 N84-18256
Starlab Ground System guidelines document
[NASA-CR-175192] 10 p1592 N84-20435
A preliminary definition of the Brazilian Complete Space Mission (MECB) ground segment
[INPE-3036-NTE/215] 17 p2612 N84-26717
Storage, retrieval, and analysis of ST data
18 p2843 N84-28051
Meteorological interactive data display system (MIDDA)
[AD-A141864] 19 p3059 N84-29406
LANDSAT-4 system description
20 p3205 N84-30361
A description of the ground segment of CNES, ESA, and TELESAT
[INPE-2984-NTE/211] 22 p3539 N84-32407
GROUND TESTS
NT COLD FLOW TESTS
NT PRELAUNCH TESTS
NT STATIC FIRING
Development and flight test of an active flutter suppression system for the F-4F with stores. Part 2: Ground tests and subcritical flight tests
[AD-A131402] 02 p0178 N84-11183
A ground test measurement system for the shuttle entry air data system
[NASA-TM-85707] 02 p0184 N84-11193

A rationale for the testing of space mechanisms
09 p1296 N84-18471
Investigation of the acoustic characteristics of aircraft/engines operating in a dry-cooled jet engine maintenance test facility 10 p1513 N84-19901
Study on synthesis and characterization of large space systems, phase 2. Part 3: Experimental design verification techniques
[ESA-CR(P)-1779-VOL-5] 12 p1781 N84-21620
Assessment of the existing ground test technology and confronting with the Large Space Structures (LSS) requirements. Experimental techniques in structural analysis 12 p1781 N84-21621
Assessment of the existing ground test technology and confronting with the Large Space Structures (LSS) requirements. Thermal test techniques
12 p1781 N84-21622
Proposals for additions, modifications, and new experimental methods. Part 1: Ground tests. Part 2: Flight tests — large space structures
12 p1781 N84-21623

GROUND TRACKS
NT SATELLITE GROUND TRACKS
Condition evaluation of Supersonic Naval Ordnance Research Track (SNORT)
[AD-A140036] 15 p2265 N84-24599

GROUND TRUTH
Radar remote sensing for crop classification and canopy condition assessment: Ground-data documentation
[E84-10020] 01 p0099 N84-10643
Snowpack ground-truth manual
[NASA-CR-170584] 02 p0239 N84-11569
Quantile data analysis of image data
03 p0393 N84-12565
Geologic survey in the south-central region of Mato Grosso
[E84-10039] 04 p0551 N84-13632
Classification and area estimation of land covers in Kansas using ground-gathered and LANDSAT digital data
[E84-10068] 06 p0865 N84-15637
Validation of SEASAT-1 altimetry using ground truth in the North Sea region
[SER-B-263-MITT-166] 08 p1179 N84-17681
Detection of hidden mineral deposits by airborne spectral analysis of forest canopies — Spirit Lake, Washington; Catheart Mountain, Maine; Blacktail Mountain, Montana; and Cotter Basin, Montana
[E84-10110] 12 p1830 N84-21928
Microwave radiometer experiment of soil moisture sensing at BARC test site during summer 1981
[NASA-TM-86056] 14 p2168 N84-23989
AVHRR aerosol ground truth experiment
[PB84-157882] 14 p2181 N84-24065
Forest inventory using multistage sampling with probability proportional to size — Brazil
[E84-10144] 16 p2507 N84-26092
Results of field observations of radio waves in alluvial deposits in Cara state from 1:100.000: Fortaleza, Canirde, Taperuaba, Santa Quiteria, Sobral, and Sao Luiz do Curu
[INPE-3061-NTE/216] 16 p2509 N84-26100
Project SERGE: Brazil referential field data for the SIR-A experiment
[INPE-2973-NTE/210] 17 p2711 N84-27259
Seasonal variation of spectral brightness coefficients for barley and rye 19 p2977 N84-28872
In-flight absolute radiometric calibration of the Thematic Mapper 20 p3208 N84-30383
LANDSAT-4 Thematic Mapper calibration and atmospheric correction 20 p3209 N84-30384
Calibration of TM data from ground-based measurements 20 p3209 N84-30385
MTF analysis of LANDSAT-4 Thematic Mapper
20 p3209 N84-30388
Habitability of the Earth 21 p3427 N84-31740
Remote observations of severe storms
24 p3927 N84-34859

GROUND WATER
Characterization of Kel-F-graphite composite (Kelgraf) electrodes and application to detection in flowing streams
[PB83-224204] 01 p0039 N84-10247
Velocity plots and capture zones of pumping centers for ground-water investigations
[DE83-016618] 03 p0401 N84-12624
Solution of groundwater-flow equations using an orthogonal finite-element scheme
[DE84-000690] 04 p0554 N84-13648
The organic geochemistry of deep ground waters and radionuclide-partitioning experiment: Under hydrothermal conditions
[DE83-015784] 04 p0554 N84-13651
Oxygen-18 measurements in the assessment of natural and anthropogenic sulfur in the environment
[DE84-000566] 04 p0560 N84-13690
Mobility of organic complexes of nickel and cobalt in soils
[DE83-017897] 04 p0564 N84-13720
Relationships among precipitation, snowmelt, subsurface flow, groundwater recharge and streamflow generation in the Clear Creek watershed, eastern Sierra Nevada
[PB83-253344] 05 p0697 N84-14579
Evaluation of a ground transient electromagnetic remote sensing method for the deep detection and monitoring of salt water interfaces
[PB83-253351] 05 p0698 N84-14580
Geophysical exploration surveys for ground water in the San Pedro Basin, Arizona
[PB84-110808] 08 p1179 N84-17684
Geological and geochemical controls on the chemical evolution of subsurface water in undisturbed and surface-mined landscapes in western North Dakota
[PB84-126952] 08 p1180 N84-17685
Water resources data for Illinois, water year 1982. Volume 1: Illinois except Illinois River Basin
[PB84-120112] 09 p1338 N84-18738
Water resources data for Illinois, water year 1982. Volume 2: Illinois River Basin
[PB84-120120] 09 p1338 N84-18739
Water resources data for Idaho, water year 1982. Volume 1: Great Basin and Snake River Basin above King Hill
[PB84-118470] 09 p1338 N84-18740
Water resources data for Idaho, water year 1982. Volume 2: Upper Columbia River Basin and Snake River Basin below King Hill
[PB84-118488] 09 p1338 N84-18741
Water resources data for New York, water year 1982. Volume 1: Eastern New York excluding Long Island
[PB84-114198] 09 p1339 N84-18744
Water resources data for Puerto Rico, 1981 - 1982
[PB84-114701] 09 p1339 N84-18748
Water resources data for South Dakota, water year 1982
[PB84-117175] 09 p1339 N84-18748
Water resources data for Louisiana, water year 1982. Volume 1: Central and Northern Louisiana
[PB84-118546] 09 p1339 N84-18750
Water resources data for Alaska, water year 1982
[PB84-119569] 09 p1340 N84-18753
Water resources data for West Virginia, water year 1982
[PB84-120161] 09 p1340 N84-18754
Water resources data for Nevada, water year 1982
[PB84-120365] 09 p1340 N84-18755
Water resources data for Utah, water year 1982
[PB84-120484] 09 p1340 N84-18756
Assessment of acid rain on leaching of elements from Delaware soils into groundwater
[PB84-120849] 09 p1343 N84-18770
Water resources data for Colorado, water year 1982. Volume 2: Colorado River Basin above Dolores River
[PB84-120138] 10 p1527 N84-20004
Numerical modeling of parametric uncertainties in flow through porous media: Development and initial testing of PORSTAT
[DE84-006882] 11 p1654 N84-20798
Modeling of the regional hydraulics of the Rustler Formation
[DE84-005859] 11 p1672 N84-20910
Scientific activity in hydrology, 1979-1982
13 p2005 N84-23010
Water resources data for South Carolina, water year 1982
[PB84-162577] 14 p2170 N84-24003
Water resources data, Kentucky water year 1982
[PB84-162320] 14 p2171 N84-24004
Water resources data for Oregon, water year 1982. Volume 1: Eastern Oregon
[PB84-164326] 14 p2171 N84-24005
Water resources data for Oregon, water year 1982. Volume 2: Western Oregon
[PB84-164334] 14 p2171 N84-24006
Water resources data for Minnesota, water year 1982. Volume 1: Great Lakes and Souris-Red-Rainy River Basins
[PB84-163047] 14 p2171 N84-24007
Water resources data for Minnesota water year, 1982. Volume 2: Upper Mississippi and Missouri River Basins
[PB84-163054] 14 p2171 N84-24008
Long-term hydrologic monitoring program. Rulison Event Site, Grand Valley, Colorado
[DE84-006210] 15 p2368 N84-25212
Desert emergency of lack of water; how to find and collect water
[AD-A140961] 18 p2789 N84-27703
Yearbook of the Bureau of Mineral Resources, Geology and Geophysics, Canberra, 1 July 1982 - 30 June 1983
[BMR-83] 19 p3037 N84-29266
Groundwater 19 p3038 N84-29269
Infiltration and soil moisture redistribution in HEC-1
[AD-A141626] 19 p3041 N84-29295
Thermal ground water flow systems in the thrust zone in southeastern Idaho
[DE84-011598] 20 p3229 N84-30517
Water resources data for Massachusetts and Rhode Island, water year 1982
[PB84-180009] 20 p3229 N84-30521
Water resources data for Arkansas, water year 1982
[PB84-181298] 20 p3229 N84-30522
Estimation of recharge in a small southern Arizona basin by means of hydrological, hydrochemical, and environmental isotope data
[PB84-159672] 20 p3230 N84-30527
Chemical attenuation rates, coefficients, and constants in leachate migration. Volume 1: A critical review
[DE84-009432] 20 p3236 N84-30557
Geothermal potential along the Balcones/Ouachita trend, central Texas: Ongoing assessment and selected case studies
[DE84-010826] 20 p3241 N84-30578
Hydrogeology, digital solute-transport simulation, and geochemistry of the Lower Cretaceous aquifer system near Baltimore, Maryland 21 p3425 N84-31728
Geochemistry of oil shale leachates and interaction with geologic substrates, Piceance Creek Basin, Colorado
21 p3440 N84-31825

GROUND WAVE PROPAGATION
An estimate of HF/VHF surface-wave communication link reaches in the West German forest environment
[AD-A131262] 01 p0067 N84-10441
Physical modeling of EM propagation over nonhomogeneous terrain 03 p0364 N84-12370
Physical modeling of EM propagation over nonhomogeneous terrain
[DE84-000178] 11 p1644 N84-20752

GROUND WIND
Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F. Cape Lisburne Alaska AFS
[AD-A131194] 01 p0109 N84-10705
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F. Indian Mountain AFS, Alaska
[AD-A131195] 02 p0255 N84-11668
The NEPHOS program: Preliminary results
10 p1536 N84-20061
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Dyess AFB, Texas
[AD-A137575] 11 p1685 N84-20991
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Part A-F: Phillips, Aberdeen, Maryland
[AD-A137577] 11 p1685 N84-20993
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Gela, Italy
[AD-A137578] 11 p1686 N84-20994
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Dhahran, Saudi Arabia
[AD-A137580] 11 p1686 N84-20995
Limited Surface Observations Climatic Survey (LISOCS), Baumholder, West Germany
[AD-A137582] 11 p1686 N84-20997
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Andersen AFB, Guam
[AD-A137583] 11 p1686 N84-20998
A compound Weibull model for the description of surface wind velocity distributions
[KNMI-WR-83-13] 12 p1862 N84-22129
WNDCOM: Estimating surface winds in mountainous terrain
[PB84-157700] 13 p2018 N84-23063
Wind climate of the Netherlands
[ISBN-90-12-04466-9] 14 p2178 N84-24045
Experimental wind forecasts from the local AFOSMOS (Automation of Field Operations and Services Model Output Statistics) program
[PB84-155514] 14 p2180 N84-24062
Nimbus 7 SMMR derived seasonal variations in the water vapor, liquid water and surface winds over the global oceans
[NASA-TM-86080] 16 p2528 N84-26233
Participation in the Mars data analysis program: Global and regional studies of wind-indicators on the surface of Mars
[NASA-CR-173982] 24 p3992 N84-35261

GROUND-AIR-GROUND COMMUNICATION
Empirical study of HF air to ground communications at the Research Facilities Center based on radio logs, 1973 - 1982
[PB83-222588] 01 p0068 N84-10447
Weather data communication and utilization
03 p0313 N84-12045

Meteor scatter communication in an air-ground environment
[RAE-TM-RAD-NAV-224] 09 p1298 N84-18484
GROUND-TO-AIR MISSILES
U SURFACE TO AIR MISSILES
GROUP BEHAVIOR
U GROUP DYNAMICS
GROUP DYNAMICS
Effects of behavioral objectives and instructions on earning a category task
[AD-A130386] 01 p0116 N84-10750
Influences on group productivity. 2: Factors inherent in the person. A bibliographic synopsis
[AD-A131015] 06 p0891 N84-15790
Organizational-climate dimensions: A conceptual and judgmental analysis
[AD-A132898] 06 p0934 N84-16068
A stopping rule for a multi-person cooperative game
[TR-87] 08 p1222 N84-17981
Positive and negative reinforcement effects on behavior in a three-person microsociety
[NASA-CR-173164] 09 p1363 N84-18902
A set of organizational-climate measures: Internal consistency, factor structure, and predictive power
[AD-A135352] 09 p1398 N84-19132
A normative model of work team effectiveness
[AD-A136398] 10 p1551 N84-20165
An intergroup perspective on group dynamics
[AD-A135582] 10 p1551 N84-20167
Societal versus individual decision making: How they might differ
[IZF-1983-20] 12 p1867 N84-22166
Cohesion in the US military
[AD-A140828] 17 p2747 N84-27439
Thought control from parenting, to behavior mod, to cults, to brainwashing
[AD-P003240] 18 p2903 N84-28407
Subordinate perceptions of contingent leaders: Do followers accept our theories?
[AD-P003248] 18 p2904 N84-28415
Behavioral and biological effects of changes in group size and membership
[NASA-CR-173801] 19 p3067 N84-29457
GROUP THEORY
NT AUTOMORPHISMS
NT HOMOMORPHISMS
NT MONOIDS
NT SUBGROUPS
Special functions and group theory in theoretical physics
[DE83-015842] 02 p0301 N84-11975
On the performance of two-stage group screening experiments
[AD-A131970] 03 p0428 N84-12807
Progress in lattice gauge theory
[DE83-014055] 03 p0436 N84-12862
On Fuchsian groups of accessible type
04 p0576 N84-13795
Regular n-gons and Fuchsian groups
04 p0576 N84-13796
Invariant means on semi-topological transformation semigroups 04 p0593 N84-13912
Some double-valued representations of the linear groups
[DE84-001525] 04 p0593 N84-13913
Class numbers and units 06 p1225 N84-18001
A comparison of random balance and two-stage group screening designs, part 1
[AD-A136487] 09 p1376 N84-18984
Harmonizable stable processes on groups: Spectral, ergodic and interpolation properties
[AD-A136504] 09 p1384 N84-19041
Linear or nonlinear wave problems with input sets
[AD-A137811] 11 p1714 N84-21177
Semigroup associated with a quasi-linear system in which the coupling is linear
[DE84-004227] 11 p1719 N84-21210
Annals of the Fourier Institute, volume 33, no. 4
[ISSN-0373-0956] 13 p2031 N84-23172
On the Z sub 2 extensions of an imaginary quadratic field 13 p2031 N84-23173
Formal and group Picard localization
13 p2032 N84-23174
Cohomology of the 3-differentiable of the Poisson algebra of a symplectic manifold
13 p2032 N84-23175
Selfdual classes and automorphism groups
[AD-P002341] 14 p2191 N84-24132
On free spectra of clones with sharply transitive automorphism groups
[AD-P002342] 14 p2191 N84-24133
Analysis of the Von Karman equations by group methods
[AD-P002948] 14 p2196 N84-24188
G-spaces: Compactifications and pseudocompactness
[MC-ZW-200/83] 19 p3095 N84-29658
Stabilization studies
[AD-A142644] 20 p3281 N84-30832
An infinite series of symmetric designs
[MC-ZW-202/83] 21 p3476 N84-32031
Annals of the Fourier Institute, volume 34, no. 1
[ISSN-0373-0956] 22 p3633 N84-33025
The Fourier Plancherel transform for Lie groups. 2: Nilpotent groups 22 p3634 N84-33026
Subgroups of continuous groups acting differentiably on the half-line 22 p3634 N84-33028
The Levi problem for cohomology classes
22 p3634 N84-33032
Determinants connected with a trace on a Banach algebra 22 p3635 N84-33036
Fatou theorem for the proper functions of invariant potential operators by a group of Cartan displacements
22 p3635 N84-33037
Annals of the Fourier Institute, volume 34, no. 2
[ISSN-0373-0956] 22 p3635 N84-33038
Infinitesimal L-classes of a group of algebraic numbers
22 p3635 N84-33039
An extension of deLeeuw's theorem to the N-dimensional rotation group 22 p3636 N84-33046
Serre's spectral sequence and homotopy
22 p3636 N84-33050
On Chow groups of conic bundle surfaces
[CTH-MATH-1984-12] 23 p3820 N84-34228
GROUP VELOCITY
Anisotropic models of the upper mantle
[NASA-CR-173549] 16 p2521 N84-26182
GROUP 1A COMPOUNDS
U ALKALI METAL COMPOUNDS
GROUP 7A COMPOUNDS
U HALOGEN COMPOUNDS
GROUP 4B COMPOUNDS
Chemical vapor deposition of group IVB, VB, and VIB elements with nonmetals. A literature review
[PB83-225409] 06 p0802 N84-15228
GROUP 5B COMPOUNDS
Chemical vapor deposition of group IVB, VB, and VIB elements with nonmetals. A literature review
[PB83-225409] 06 p0802 N84-15228
GROUP 6B COMPOUNDS
Chemical vapor deposition of group IVB, VB, and VIB elements with nonmetals. A literature review
[PB83-225409] 06 p0802 N84-15228
GROUPS
Estimation of latent group effects
[AD-A139299] 14 p2218 N84-24310
GROUT
Numerical simulation of the velocity records from the SRI grout spheres experiment
[AD-A131257] 01 p0096 N84-10627
Petrographic examination of Bell Canyon Tests (BCT) 1-FF field grouts over a 3-year period
[DE83-018226] 04 p0555 N84-13854
GROWTH
NT CROP GROWTH
NT CRYSTAL GROWTH
NT CZOCHRALSKI METHOD
NT DIRECTIONAL SOLIDIFICATION (CRYSTALS)
NT EPITAXY
NT LIQUID PHASE EPITAXY
NT MOLECULAR BEAM EPITAXY
NT VAPOR PHASE EPITAXY
NT VEGETATION GROWTH
Evidence for a regulatory role of calcium in gravitropism 02 p0262 N84-11721
Silicide formation and Schottky barrier of rare-earth metals on Si
[AD-A131750] 03 p0452 N84-12975
Recent progress at NBS in fire growth modeling
04 p0513 N84-13372
Electron-cyclotron maser and whistler instabilities in a relativistic electron plasma with loss-cone distribution
[DE84-001607] 04 p0541 N84-13561
A general framework for learning curve reliability growth models
[AD-A132277] 04 p0546 N84-13596
On the growth of the spherical derivative of a meromorphic function 04 p0575 N84-13785
The effect of various carbon sources on the growth of single-celled cyanophyta
[NASA-TM-77090] 08 p1197 N84-17804
Rat body size, composition and growth at hypo- and hypergravity
[NASA-CR-175393] 10 p1545 N84-20126
Measuring and modeling of the dielectric properties and attenuation of vegetation 12 p1834 N84-21953
Sex steroids do not affect muscle weight, oxidative metabolism or cytosolic androgen reception binding of functionally overloaded rat Plantaris muscles
[NASA-CR-173630] 17 p2739 N84-27394
Forest environments 20 p3218 N84-30439
Effect of cyclic changes in cultivation conditions of growth kinetics and physiological properties of yeasts
22 p3629 N84-32998
On Froude's number and the thickness of bones during growth 23 p3807 N84-34139
Temporal evolution of whistler growth in a cold plasma injection experiment
[NASA-CR-173972] 23 p3828 N84-34280
GROWTH CHAMBERS
U PHYTOTRONS
GRUMMAN AIRCRAFT
NT A-6 AIRCRAFT
NT F-14 AIRCRAFT
NT F-111 AIRCRAFT
NT JETSTREAM AIRCRAFT
NT OV-1 AIRCRAFT
GRUMMAN OV-1C AIRCRAFT
U OV-1 AIRCRAFT
GUATEMALA
Geology of the Gualan and Southern Sierra de las Minas Quadrangles, Guatemala 21 p3441 N84-31834
GUIDANCE (MOTION)
NT AIRCRAFT GUIDANCE
NT BEAM RIDER GUIDANCE
NT COMMAND GUIDANCE
NT ENTRY GUIDANCE (STS)
NT INERTIAL GUIDANCE
NT LASER GUIDANCE
NT MIDCOURSE GUIDANCE
NT RENDEZVOUS GUIDANCE
NT SATELLITE GUIDANCE
NT SPACECRAFT GUIDANCE
NT STRAPDOWN INERTIAL GUIDANCE
NT TERMINAL GUIDANCE
Computer-Aided Design and Analysis of Digital Guidance and Control Systems
[AGARD-LS-128] 01 p0014 N84-10093
A study on sound guidance for evacuation: Effect of megaphoned evacuation guidance in smoke
04 p0512 N84-13356
Bank-to-Turn cruise missile terminal guidance and control law comparison
[AD-A132595] 05 p0629 N84-14136
Real-time pilot guidance system for improved flight test maneuvers
[NASA-TM-84922] 07 p0952 N84-16176
Investigation on Kpsi-guidance (quasi-objective carrying guidance) --- missile guidance
[FOA-C-20482-E3] 07 p0962 N84-16237
Automated rendezvous and docking: A parametric study
[NASA-TP-2314] 14 p2115 N84-23677
Guidance and actuation systems for an adaptive-suspension vehicle
[AD-A139111] 14 p2155 N84-23910
USSR report: Engineering and equipment
[JPRS-UEQ-84-003] 17 p2640 N84-26895
Development situation for guiding systems
18 p2797 N84-27747
Development of simulators for guiding systems
18 p2797 N84-27750
A new concept for guiding missiles with an application to the ground-air system 21 p3350 N84-31253
Homing head imperfections altering missile guidance
21 p3351 N84-31256
GUIDANCE SENSORS
IPACS guidance navigation and control system considerations and test activities
03 p0346 N84-12245
The influence of sensor and thruster imperfections on the attitude and position of a spacecraft performing a rendezvous 15 p2267 N84-24615
A stochastic model for photon noise induced by charged particles in multiplier phototubes of the space telescope fine guidance sensors
[NASA-TP-2337] 16 p2556 N84-26398
Fiber optic light guides based on polymer coated multicomponent glasses 21 p3487 N84-32100
Phase sensitive guidance sensor for wire-following vehicles
[NASA-CASE-NPO-15341-1] 23 p3750 N84-33769
GUIDE VANES
Design and performance of a fixed, nonaccelerating, guide vane cascade that operates over an inlet flow angle range of 60 deg
[NASA-TM-83519] 05 p0626 N84-14120
V/STOL model fan stage rig design report
[NASA-CR-174688] 14 p2106 N84-23629
Energy efficient engine: Turbine intermediate case and low-pressure turbine component test hardware detailed design report
[NASA-CR-167973] 19 p2965 N84-28789

GULF OF ALASKA
A comparison of SMMR (Scanning Multichannel Microwave Radiometer) and airborne microwave measurements during GOASEX (Gulf of Alaska experiment)
[AD-A134514] 07 p1008 N84-16534
GULF OF CALIFORNIA (MEXICO)
Observations of internal waves in the Gulf of California by SEASAT SAR 07 p0990 N84-16414
Paleomagnetism, rock magnetism and diagenesis in hemipelagic sediments from the northeast Pacific Ocean and the Gulf of California 22 p3621 N84-32944
GULF OF MEXICO
Satellite remote sensing, environmental monitoring and the offshore oil and gas industries 03 p0396 N84-12603
Analysis of SEASAT wind observations in the Gulf of Mexico and the Caribbean Sea
[PB84-131309] 09 p1350 N84-18824
LORAN-C signal stability study: Northeast and southeast U.S.
[AD-A137626] 11 p1604 N84-20508
Sampling strategies and four-dimensional assimilation of altimetric data for ocean monitoring and prediction 17 p2721 N84-27317
Panel 1A: Geologic studies related to oil and gas development in the EEZ 18 p2866 N84-28194
MAGSAT correlations with geoid anomalies — western Gulf of Mexico
[E84-10174] 21 p3427 N84-31736
MAGSAT correlations with geoid anomalies — magnetic anomalies in the western Gulf of Mexico
[E84-10190] 22 p3613 N84-32894
Storm severity detecion (RF) 24 p3927 N84-34857
Methodology for interpretation of SST retrievals using the AVHRR split window algorithm
[NASA-TM-85100] 24 p3934 N84-34905
GULF STREAM
Mariners weather log, volume 27, number 3, summer 1983
[PB84-108356] 08 p1192 N84-17771
Gulf stream system landward surface edge statistics
[PB84-104314] 10 p1543 N84-20112
Observational evidence for an eddy-driven deep circulation in the North Atlantic
[AD-P002660] 11 p1690 N84-21025
On the mean dynamical balances of the Gulf Stream Recirculation Zone
[AD-P002661] 11 p1691 N84-21026
The impact of Gulf Stream rings upon the Slope Water
[AD-P002662] 11 p1691 N84-21027
Studies of the velocity structure of the Gulf Stream east of Cape Hatteras
[AD-P002663] 11 p1691 N84-21028
Water mass classification in the North Atlantic using IR digital data and Bayesian decision theory
[AD-P003125] 16 p2534 N84-26266
South Atlantic physical oceanography study (year 5). Volume 1: Executive summary
[PB84-187855] 21 p3451 N84-31899
GULFS
NT GULF OF ALASKA
NT GULF OF CALIFORNIA (MEXICO)
NT GULF OF MEXICO
NT PERSIAN GULF
GUM VULCANIZATES
U VULCANIZED ELASTOMERS
GUMS (SUBSTANCES)
Basic study of fuel storage stability
[AD-A142194] 19 p2966 N84-28799
GUN LAUNCHERS
Experimental electromagnetic launchers at MRL
[MRL-R-894] 08 p1150 N84-17482
Initial acceleration for electromagnetic launchers: A feasibility study on chemical propellants
[MRL-TN-478] 11 p1639 N84-20712
Electromagnetic launchers and guns, phase 1
[AD-A143778] 23 p3698 N84-33435
Railgun plasma armature characterisation experiments
[MRL-R-928] 24 p3965 N84-35104
GUN PROPELLANTS
Laser spectroscopy of propellant-like flames
[AD-A132042] 03 p0349 N84-12267
Colour testing of nitrocellulose propellants by a spectrophotometric method
[AD-A133091] 05 p0662 N84-14348
Relevance of rock mechanics to gun propellants
[DE84-002010] 05 p0704 N84-14620
Expanded ignition effectiveness tests of selected igniter materials with Navy propellants
[AD-A134704] 08 p1125 N84-17312
Intracavity laser excitation of NCO fluorescence in an atmospheric pressure flame
[AD-A134740] 08 p1164 N84-17579
Synthesis of energetic prepolymers
[AD-A135770] 09 p1288 N84-18409
Initial acceleration for electromagnetic launchers: A feasibility study on chemical propellants
[MRL-TN-478] 11 p1639 N84-20712
Multi-dimensional, multiphase flow analysis of flamespreading in a stick propellant charge 13 p1948 N84-22663
Slotted stick propellant study 13 p1948 N84-22664
Closed vessel combustion studies of stick propellant 13 p1948 N84-22665
closed bomb combustion simulation of Hivelite solid propellant 13 p1948 N84-22667
Effect of fabrication techniques on consolidated charge burning 13 p1948 N84-22668
Expanded ignition effectiveness tests of selected igniter materials with Navy propellants 13 p1949 N84-22671
Convective heating of energetic materials 13 p1949 N84-22672
Molecular dynamics of propellant gases 13 p1949 N84-22674
The thermodynamics of real and unreal black powder 13 p1950 N84-22675
Investigation of organic oxidizers for high performance low flame temperature gas generator applications 13 p1950 N84-22676
Ignitibility studies of LOVA propellants — low vulnerability gun propellants 13 p1950 N84-22678
Multiphase flow analysis of the ballistic performance of an anomalous LOVA propellant mix 13 p1950 N84-22679
GUN TURRETS
Numerical simulation of flow around a three-dimensional turret
[AD-A128666] 01 p0078 N84-10507
GUNFIRE
Annoyance ratings for impulse and traffic sounds presented in quiet surroundings
[IZF-1983-23] 12 p1900 N84-22373
GUNN DIODES
Two-stage regenerative microwave amplifiers with reduced nonlinear distortions 17 p2638 N84-26878
Millimetric wave frequency converter using Gunn-effect diode 22 p3570 N84-32607
GUNN EFFECT
Microwave semiconductor equipment produced in Poland
[AD-A137598] 11 p1646 N84-20762
Coupling of current and frequency-modulated noise in Gunn oscillators 17 p2636 N84-26865
Millimetric wave frequency converter using Gunn-effect diode 22 p3570 N84-32607
Stable asynchronous two-frequency oscillations in Gunn-effect diode with open resonator structure 22 p3570 N84-32611
GUNNERY TRAINING
Skunkworks 81 revisited: An update on acquisition strategy
[AD-P002759] 13 p2051 N84-23306
GUNPOWDER
U GUN PROPELLANTS
GUNS (ORDNANCE)
NT ARTILLERY
NT RIFLES
Capabilities of the NRCC/NAE flight impact simulator facility
[AD-A130849] 06 p0784 N84-15136
Liquid propellant ignition studies 13 p1949 N84-22670
Molecular dynamics of propellant gases 13 p1949 N84-22674
A simple approach for determination of bursting pressure of a thick-walled cylinder
[AD-P002956] 14 p2199 N84-24196
Thermal and transformation stresses in hollow tubes during the quenching process
[AD-P002978] 14 p2201 N84-24212
On the extremum of bilinear functional for hyperbolic type partial differential equations
[AD-A142505] 20 p3281 N84-30828
GUST ALLEVIATORS
Application of an adaptive blade control algorithm to a gust alleviation system
[NASA-TM-85848] 01 p0012 N84-10079
Gust alleviation — numerical analysis 02 p0181 N84-11180
A study of helicopter gust response alleviation by automatic control
[NASA-TM-85870] 14 p2111 N84-23655
Measurement of the flow field behind harmonically oscillating gust generators in the model subsonic wind tunnel (MUK)
[ESA-TT-806] 16 p2487 N84-25953
GUST LOADS
Gust response of a light, single-engined, high-wing aircraft
[AD-A131033] 01 p0013 N84-10081
Turbulent wind effects on tension leg platform surge
[PB83-207464] 01 p0058 N84-10376
Gust alleviation — numerical analysis 02 p0181 N84-11180
Worldwide experience of wind shear during 1981-1982 06 p0776 N84-15087
Some comments on the hazards associated with manoeuvring flight in severe turbulence at high speed and low altitude 06 p0776 N84-15089
Analysis of wind gust data 10 p1573 N84-20308
Measurement of the flow field behind harmonically oscillating gust generators in the model subsonic wind tunnel (MUK)
[ESA-TT-806] 16 p2487 N84-25953
Experimental investigation of elastic mode control on a model of a transport aircraft
[NASA-CR-3472] 18 p2792 N84-27721
Review and comparison of discrete and continuous gust methods for the determination of airplane design loads
[NLR-TR-82134-U] 20 p3132 N84-29886
GUSTS
Gust structure and gust statistics. Results from an analysis of atmospheric turbulence measurements by using conditional sampling technique
[FFA-TN-1983-28] 03 p0412 N84-12696
Investigation of the arc cloud complex 06 p0928 N84-16029
Lectures of a Flight Mechanics Conference — conferences
[DFVLR-MITT-83-05] 07 p0944 N84-16120
Gusts simulation for flight-mechanical investigations in wind tunnels 07 p0944 N84-16127
Investigation of effects contributing to dynamic stall using a momentum-integral method
[AD-A136897] 10 p1421 N84-19291
A time domain analysis of a rigid two-bladed fully gimballed helicopter rotor with circulation control
[AD-A136947] 10 p1422 N84-19296
Forecast aids for predicting tropical cyclone associated gusts and sustained winds for Agana, Hong Kong, Kadena and Misawa
[AD-A137846] 11 p1687 N84-21001
Vector wind gust model
[NASA-CR-171029] 15 p2371 N84-25222
Numerical simulation of thunderstorm gust fronts
[AD-A141214] 18 p2889 N84-28339
Investigation of the detectability and lifetime of gust fronts and other weather hazards to aircraft
[AD-A141552] 19 p3058 N84-29404
Analysis of MSFC ground-based Doppler lidar data 24 p3929 N84-34867
GUY WIRES
Quality and reliability of steel wire ropes
[BLL-M-35461-(5828.4)] 12 p1821 N84-21872
GUYANA
SIR-A aids regional geology: Comparisons of SIR-A imagery with SLAR and LANDSAT over Guyana, Venezuela, Nicaragua and Mali 07 p0988 N84-16401
GYMNASTICS
U PHYSICAL EXERCISE
GYPSUM
Review of the strength of brittle rock materials 23 p3722 N84-33586
Strength of gypsum in complex states of stress 23 p3722 N84-33588
GYRATION
NT AUTOROTATION
NT COUNTER ROTATION
NT EARTH ROTATION
NT LARMOR PRECESSION
NT MOLECULAR ROTATION
NT MUON SPIN ROTATION
NT PLANETARY ROTATION
NT PRECESSION
NT QUENCHING (ATOMIC PHYSICS)
NT REVOLVING
NT ROTATION
NT SATELLITE ROTATION
NT SOLAR ROTATION
NT STELLAR ROTATION
GYRATORS
NT MICROWAVE FILTERS
GYRES
Short-term measurements of surface currents associated with the Alboran Sea during Donde Va?
[AD-A133812] 06 p0864 N84-15750
Simulation of midlatitude variability
[AD-P002655] 11 p1690 N84-21020

GYROCOMPASSES
The Schuler principle: A discussion of some facts and misconceptions
[EUT-83-E-136] 10 p1427 N84-19330
A field evaluation of the Bendix Gyrocompass Navigation System land navigator
[AD-A140988] 16 p2446 N84-25689
GYROFREQUENCY
Ion waves generated by streaming particles
[KGI-PREPRINT-065] 18 p2935 N84-26612
GYROMAGNETISM
NT GYROFREQUENCY
GYROPLANES
U HELICOPTERS
GYROS
U GYROSCOPES
GYROSCOPE FLUIDS
Discussion of static pressure liquid-floated gyros
[AD-A131874] 03 p0377 N84-12451
GYROSCOPES
NT ATTITUDE GYROS
NT CRYOGENIC GYROSCOPES
NT ELECTROSTATIC GYROSCOPES
NT GYROCOMPASSES
NT GYROSCOPIC PENDULUMS
NT GYROSTABILIZERS
NT LASER GYROSCOPES
NT OPTICAL GYROSCOPES
NT ROTARY GYROSCOPES
NT TUNING FORK GYROSCOPES
Nuclear magnetic resonance gyroscope
[AD-A130102] 01 p0083 N84-10539
Instabilities of a gyroscope produced by rapidly rotating, highly viscous liquids
[AD-A130874] 01 p0084 N84-10547
Nuclear moment alignment, relaxation and detection mechanisms
[AD-A131546] 02 p0223 N84-11464
Discussion of static pressure liquid-floated gyros
[AD-A131874] 03 p0377 N84-12451
On the effect of gyroscopic forces on the instability of certain fluid-elastic systems. Part 1: Definitions
[PUBL-340] 04 p0532 N84-13499
Perturbation methods for slightly damped gyroscopic systems 04 p0537 N84-13534
All-fiber gyroscope with optical-Kerr-effect compensation 06 p0846 N84-15518
Design report: Two axis rotational rate measurement system using rate gyros
[NIAST-83/08] 07 p1068 N84-16938
Procedures for static and constant-rate tests on a Single-Degree-of-Freedom (SDF) strapdown gyroscope
[AD-A136632] 09 p1318 N84-18609
An evaluation of a Honda Electro Gyro-Cator land navigation system
[AD-A136283] 12 p1768 N84-21532
Redesigned of T-38 displacement gyroscope pack
[AD-A138047] 12 p1770 N84-21544
Implementation and evaluation of two design concepts of the passive ring resonator laser gyroscope
[AD-A138064] 12 p1818 N84-21851
Vertical gyro with erection system and indication mechanism
[BMFT-FB-W-83-034] 12 p1819 N84-21858
Guidance and Control Techniques for Advanced Space Vehicles
[AGARD-CP-350] 15 p2265 N84-24603
Current work on high-grade space gyros at Ferranti in the UK 15 p2266 N84-24609
A filtered attitude determination system for spacecraft measurement and control 15 p2267 N84-24612
Method of deriving equations of motion for dynamically adjustable gyroscope 17 p2643 N84-26912
Materials research for advanced inertial instrumentation. Task 3: Rare earth magnetic material technology as related to gyro torquers and motors — high energy SmCo5 magnets
[AD-A140611] 17 p2762 N84-27542
Temperature controlled gyro
[AD-D011138] 22 p3596 N84-32777
Passive line-of-sight stabilization for an infrared sensor
[AD-A143305] 22 p3599 N84-32792
Fiber optic rotation-sensing gyroscope with (3x2) coupler
[AD-D011195] 24 p3902 N84-34706
GYROSCOPIC DRIFT
U GYROSCOPES
U GYROSCOPIC STABILITY
GYROSCOPIC PENDULUMS
The Schuler principle: A discussion of some facts and misconceptions
[EUT-83-E-136] 10 p1427 N84-19330
Conservation laws for some separable gyroscopic dynamical systems 15 p2313 N84-24876
GYROSCOPIC STABILITY
On the effect of gyroscopic forces on the instability of certain fluid-elastic systems. Part 1: Definitions
[PUBL-340] 04 p0532 N84-13499
Numerical investigation of the aerodynamics and stability of a flared afterbody for axisymmetric projectiles at supersonic speeds
[AD-A135826] 10 p1420 N84-19289
EPA (Environmental Protection Agency) evaluation of the Gyroscopic Wheel Cover device under section 511 of the Motor Vehicle Information and Cost Savings Act
[PB84-143577] 12 p1921 N84-22514
Mechanics of rigid gyroscopic systems 17 p2643 N84-26910
Method of deriving equations of motion for dynamically adjustable gyroscope 17 p2643 N84-26912
Stability diagrams for a rigid gyrostat in a circular orbit
[UTIAS-TN-243] 17 p2671 N84-27023
GYROSTABILIZERS
Target track and stabilization for manportable direct fire missiles
[AD-A136219] 09 p1271 N84-18306
Differential equations for movement of triaxial gyroscopic stabilizer on moving base 21 p3488 N84-32107
GYROSTATS
U GYROSCOPES
GYROTRONS
U CYCLOTRON RESONANCE DEVICES
GYROTROPISM
Uniform asymptotic solution of the problem of diffraction for a linear quadrupole source
[ISSN-0208-5658] 23 p3729 N84-33631

H

H ALPHA LINE
Stark spectroscopy of hydrogen lines in turbulent plasma. 1: Low-frequency turbulence
[DE84-004443] 11 p1737 N84-21333
H alpha and TiO band observations of RS CVn stars 13 p2069 N84-23410
A catalog of solar white-light flares, including their statistical properties and associated emissions, 1859 - 1982
[AD-A138645] 14 p2251 N84-24521
The behaviour of the 3.28 micron dust feature in NGC 2024 16 p2571 N84-26498
Solar-geophysical data prompt reports, February 1984, number 474. Part 1: Data for January 1984, December 1983 and late data. Explanation of data reports issued as number 474 (supplement) February 1984
[PB84-186689] 20 p3320 N84-31076
Solar-geophysical data comprehensive reports, February 1984, number 474. Part 2: Data for August 1983, April 1981 and miscellanea. Explanation of data reports issued as number 474 (supplement) February 1984
[PB84-186671] 20 p3320 N84-31077
Solar-geophysical data explanation of reports, February 1984, number 474, supplement
[PB84-186697] 20 p3320 N84-31078
Solar-Geophysical Data, no. 475, March 1984. Part 1: Prompt reports. Data for September 1983, May 1981
[PB84-201508] 22 p3680 N84-33329
Solar-Geophysical Data, no. 475, March 1984. Part 2: Comprehensive reports. Data for September 1983, May 1981 and miscellanea
[PB84-201516] 22 p3680 N84-33330
H BETA LINE
Stark spectroscopy of hydrogen lines in turbulent plasma. 1: Low-frequency turbulence
[DE84-004443] 11 p1737 N84-21333
H GAMMA LINE
Stark spectroscopy of hydrogen lines in turbulent plasma. 1: Low-frequency turbulence
[DE84-004443] 11 p1737 N84-21333
H LINES
NT H ALPHA LINE
NT H BETA LINE
NT H GAMMA LINE
Observations of emission in bright, low redshift quasars
[NASA-CR-175376] 08 p1242 N84-18122
HII regions in the outer galaxy 23 p3838 N84-34345
H-60 HELICOPTER
UH-60A Black Hawk engineering simulation program. Volume 1: Mathematical model
[NASA-CR-166309] 19 p2968 N84-28806
HABITABILITY
Extremely Low Frequency (ELF) communications system ecological monitoring program: Plan and summary of 1982 progress
[AD-A135482] 08 p1144 N84-17445
The Pilot Land Data System: Report of the Program Planning Workshops
[NASA-TM-86250] 16 p2566 N84-26468
Habitability and human productivity issues confronting the Air Force Space Command
[AD-P003266] 18 p2906 N84-28431
The feasibility, practicality and utility of P-3 inflight refueling
[AD-A143419] 22 p3535 N84-32382
HABITATS
Update and review of accuracy assessment techniques for remotely sensed data
[E84-10029] 01 p0099 N84-10846
Riparian habitat on the Humboldt River, Deeth to Elko, Nevada
[E84-10116] 14 p2167 N84-23976
HADRONS
NT BARYONS
NT MESONS
NT MUONS
Hadronic multiplicity distributions: Example of a universal stochastic mechanism
[DE83-015232] 03 p0434 N84-12845
Hadron-hadron collider group
[DE83-010704] 03 p0437 N84-12865
Tau and B lifetime measurements from the MARK 2
[DE83-018219] 03 p0439 N84-12879
Detectors at 20 TeV and detector considerations for a high luminosity hadron-hadron machine 06 p0911 N84-15920
Track chambers for high luminosity 06 p0912 N84-15921
The design and expected performance of a fast scintillator hadron calorimeter 06 p0912 N84-15926
Prospects for Cerenkov ring imaging at hadron colliders 06 p0913 N84-15934
TOF for heavy stable particle identification 06 p0913 N84-15936
Production of Krypton-81 and Krypton-85 by cosmic rays
[DE84-004439] 09 p1418 N84-19276
Research in elementary particle physics
[DE84-006130] 12 p1903 N84-22392
Intermediate-energy nuclear theory — nucleon-nucleon theory, three-hadron systems, hadron form factors, and Dirac particles
[DE84-012971] 22 p3654 N84-33161
High energy physics research at Texas Agriculture and Mining University — magnetic monopoles in cosmic rays and hadron calorimeter design
[DE84-011616] 22 p3655 N84-33167
HAFNIUM
Hf-182: A new stopwatch for the early solar system
[DE83-011486] 07 p1090 N84-17088
HAFNIUM ALLOYS
The relationship between the martensitic phase transition and the superconducting properties of A15 compounds
[DE83-018186] 04 p0529 N84-13477
Carbide phases in high-temperature nickel-hafnium alloys 24 p3871 N84-34532
HAFNIUM COMPOUNDS
NT HAFNIUM OXIDES
RF sputtered silicon and hafnium nitrides as applied to 440C steel
[NASA-TM-86862] 22 p3559 N84-32536
HAFNIUM OXIDES
Electrical conductivities of polycrystalline and single-crystal Er2O3-stabilized hafnia
[DE83-017681] 06 p0811 N84-15279
Preparation and properties of electrically conducting ceramics based on indium oxide-rare Earth oxides-hafnium oxide 11 p1741 N84-21360
Recent damage results for antireflection coatings at 355 NM
[DE84-011560] 21 p3371 N84-31388
High temperature oxidation resistant coatings
[AD-A143633] 23 p3724 N84-33597
HAIL
Measures to improve anti-hail service 11 p1689 N84-20892
Problems in hail prevention 18 p2888 N84-28328
HAILSTONES
U HAIL
HAILSTORMS
Problems in hail prevention 18 p2888 N84-28328
Cloud seeding with TG-10 rockets — hail suppression 18 p2888 N84-28329
Planned radar network in hail suppression 18 p2888 N84-28331
A discriminant analysis of radar data applied to severe storms 23 p3775 N84-33933
HAIR
Rheoceptive mediators of graviperception in a water flea: Morphological implications of antennal-socket setae in daphnia magna 09 p1360 N84-18883

HAITI
Cenozoic tectonics of the Caribbean: Structural and stratigraphic studies in Jamaica and Hispaniola
13 p2013 N84-23062

HALF LIFE
Radioactivites in returned lunar materials and in meteorites
[NASA-CR-171710] 02 p0308 N84-12018

HALF PLANES
Analysis of the solution of the problem of diffraction on an asymmetric impedance half-plane
[ISSN-0208-5658] 23 p3729 N84-33833

HALF SPACES
The propagation and arrest of an edge crack in an elastic half-space under conditions of anti-plane shear: Analytical and numerical results 04 p0547 N84-13604
Introduction to the FORTRAN 14 programs Duvorol and Contact for the solution of 3 D elastostatic half-space contact problems with and without friction
[PB83-147421] 06 p0696 N84-15833
Stability of a rubber half-space
[WTHD-159] 07 p0949 N84-16156
Exact image theory for the Sommerfeld half-space problem with a vertical magnetic dipole
[REPT-S-142] 10 p1572 N84-20301
Scattering of electromagnetic waves at edge of semiinfinite dielectric layer embedded in ideally conducting half-space 18 p2822 N84-27919

HALIDES
NT ALKALI HALIDES
NT ALUMINUM CHLORIDES
NT AMMONIUM CHLORIDES
NT BROMIDES
NT CADMIUM FLUORIDES
NT CALCIUM CHLORIDES
NT CALCIUM FLUORIDES
NT CARBON TETRACHLORIDE
NT CESIUM IODIDES
NT CHLORIDES
NT COPPER CHLORIDES
NT FLUORIDES
NT FLUORSPAR
NT HYDROBROMIC ACID
NT HYDROCHLORIC ACID
NT HYDROFLUORIC ACID
NT HYDROGEN CHLORIDES
NT IRON CHLORIDES
NT LANTHANUM FLUORIDES
NT LITHIUM CHLORIDES
NT LITHIUM FLUORIDES
NT MAGNESIUM CHLORIDES
NT METAL HALIDES
NT POTASSIUM CHLORIDES
NT SILVER BROMIDES
NT SILVER HALIDES
NT SODIUM CHLORIDES
NT STRONTIUM FLUORIDES
NT SULFUR CHLORIDES
NT SULFUR FLUORIDES
NT URANIUM FLUORIDES
NT ZINC CHLORIDES
Assessment of the BCL and ORL chemical heat pumps
[DE83-011450] 01 p0060 N84-10518
Spectroscopic studies of lasing transitions in the diatomic mercury halides
[AD-A131466] 02 p0226 N84-11481
RF conditioned dc discharges for excitation of rare gas halide lasers
[DE83-016537] 03 p0361 N84-12479
Excited state kinetics of mercury halides and mixtures with N2 and Xe
[AD-A135432] 06 p1124 N84-17310
Spectroscopic investigations of materials for tunable infrared lasers
[AD-A138324] 12 p1821 N84-21869
Intramolecular electron transfer at metal surfaces. 1. Relative energetics of some corresponding outer- and inner-sphere pathways involving halide and pseudohalide bridging ligands
[AD-A139021] 13 p1956 N84-22716
Electrochemistry of carbides and carbon cathodes in molten halides
[DE84-007966] 15 p2287 N84-24725
Laser-induced decomposition of some allyl halides
[AD-A140426] 16 p2463 N84-25786
Gas-liquid correlation of ionization energies
[AD-A141255] 18 p2930 N84-28578
Inductively stabilized excimer lasers
[DE84-011371] 20 p3194 N84-30284
Extended abstracts of the Proceedings of the 2nd International Symposium on Halide Glasses
[AD-A144269] 24 p3888 N84-34624

HALL COEFFICIENT
U HALL EFFECT

HALL CURRENTS
U ELECTRIC CURRENT
U HALL EFFECT

HALL EFFECT
Research on diffusion and complex behavior of elements forming recombination centers in silicon by means of optical and electrical measurement techniques
[BMFT-FB-T-83-117] 02 p0300 N84-11971
The quantum hall effect 04 p0611 N84-14036
Glass-like carbon: A C/sub x/H polymer intercalation compound
[DE84-001863] 05 p0660 N84-14340
Development of short gate FET's
[AD-A133852] 05 p0674 N84-14431
Experimental investigation of a Hall-current thruster
[NASA-CR-168133] 09 p1274 N84-18321
Research support for plasma diagnostics on Elmo Bumpy Torus - development of a multichannel Hall-probe based diamagnetic diagnostic instrument and observation and modeling of EBT electron rings
[DE84-006810] 18 p2933 N84-29600
Quasi-two-day variation of lower thermosphere wind velocities 20 p3224 N84-30488
Fractional quantization of the Hall effect
[DE84-006894] 20 p3310 N84-31023
Quantum transport in low dimensional disordered systems 22 p3682 N84-33347

HALLEY'S COMET
Laboratory measurement of impact ionization
08 p1118 N84-17271
Energy distributions and yields of secondary ions and electrons emitted by GIOTTO during Halley encounter
08 p1118 N84-17272
Shot noise generated by gas impact during a cometary fly-by — Vega Halley's comet flyby
08 p1118 N84-17273
A model of electrostatic charging and sheath structure of GIOTTO near Halley's comet
08 p1118 N84-17274
Thermal design of the Giotto spacecraft
10 p1441 N84-19412
Seeing Halley's Comet: A guide for observers in the Northern Hemisphere
[NASA-CR-173604] 16 p2574 N84-26517
Vibrational and rotational excitation of CO in comets. Part 1: Non-equilibrium calculations. Part 2: Results of the calculation for standard bright comet, comet Iras-Araki-Alcock and comet Halley
[NASA-TM-86122] 16 p2579 N84-26545
The magnetic field experiment for the Venus-Halley (VEGA) mission
[IWF-8301] 17 p2777 N84-27633
Guaranteed accuracy in determining orbit of Halley's Comet 19 p2973 N84-28845

HALOCARBONS
NT FLUOROCARBONS

HALOE
U HALOGEN OCCULTATION EXPERIMENT

HALOGEN COMPOUNDS
NT ALKALI HALIDES
NT ALUMINUM CHLORIDES
NT AMMONIUM CHLORIDES
NT AMMONIUM PERCHLORATES
NT BROMIDES
NT BROMINE COMPOUNDS
NT CADMIUM FLUORIDES
NT CALCIUM CHLORIDES
NT CALCIUM FLUORIDES
NT CARBON TETRACHLORIDE
NT CARBON TETRAFLUORIDE
NT CESIUM IODIDES
NT CHLORIDES
NT CHLORINE COMPOUNDS
NT CHLOROSILANES
NT COPPER CHLORIDES
NT FLUORIDES
NT FLUORINE COMPOUNDS
NT FLUORITE
NT FLUORO COMPOUNDS
NT FLUOROAMINES
NT FLUOROCARBONS
NT FLUOROHYDROCARBONS
NT FLUOROPOLYMERS
NT FLUORSPAR
NT HALIDES
NT HYDROBROMIC ACID
NT HYDROCHLORIC ACID
NT HYDROFLUORIC ACID
NT HYDROGEN CHLORIDES
NT IODIDES
NT IODINE COMPOUNDS
NT IRON CHLORIDES
NT KEL-F
NT LANTHANUM FLUORIDES
NT LITHIUM CHLORIDES
NT LITHIUM FLUORIDES
NT MAGNESIUM CHLORIDES
NT METAL HALIDES
NT PERCHLORATES
NT PERFLUOROALKANE
NT POLYTETRAFLUOROETHYLENE
NT POTASSIUM CHLORIDES
NT POTASSIUM PERCHLORATES
NT SILVER BROMIDES
NT SILVER HALIDES
NT SODIUM CHLORIDES
NT STRONTIUM FLUORIDES
NT SULFUR CHLORIDES
NT SULFUR FLUORIDES
NT URANIUM FLUORIDES
NT ZINC CHLORIDES
Dihalo-monaphospha-s-triazines and their derivatives
[AD-D011175] 23 p3714 N84-33545
Halo-substituted diphospha-s-triazines and their derivatives
[AD-D011176] 23 p3714 N84-33546

HALOGEN OCCULTATION EXPERIMENT
Fabrication of glass gas cells for the HALOE and MAPS satellite experiments
[NASA-TM-86302] 24 p3866 N84-34501

HALOGENATION
NT BROMINATION
NT CHLORINATION
NT FLUORINATION
A new engineering approach for cable in fire situations using halogenated polymers 11 p1726 N84-21259
Electronically excited products in the reactions of O(3PJ) atoms with halogenated ethenes
[MPIS-8/1983] 13 p2041 N84-23244

HALOGENS
NT BROMINE
NT CHLORINE
NT FLUORINE
NT IODINE
NT IODINE ISOTOPES
NT IODINE 131
Inorganic halogen oxidizers
[AD-A139127] 14 p2121 N84-23714

HALOS
Search for emission lines in the gaseous halo of edge-on galaxies
[NASA-CR-173968] 23 p3838 N84-34349

HAMILTON-JACOBI EQUATION
Differential games, optimal control and directional derivatives of viscosity solutions of Bellman's and Isaacs' equations
[AD-A137939] 11 p1718 N84-21209

HAMILTONIAN FUNCTIONS
Laser-induced bound states at surfaces: Ion neutralization and adsorption
[AD-A130278] 01 p0086 N84-10562
Multiple critical points of invariant functionals and applications
[AD-A130544] 01 p0130 N84-10853
Hamiltonian for antisotropic bodies with defects
[ISSN-0208-5658] 03 p0451 N84-12966
Meson-exchange Hamiltonian for NN scattering and isobar-nucleus dynamics
[DE83-017974] 04 p0600 N84-13959
Hamiltonian formulation of reduced magnetohydrodynamics
[DE83-016758] 04 p0609 N84-14021
Morse type index theory for flows and periodic solutions for Hamiltonian equations
[AD-A134431] 07 p1061 N84-16883
The Birkhoff-Lewis fixed point theorem and a conjecture of V. I. Arnold
[AD-A134534] 07 p1062 N84-16888
Note on subharmonic solutions of a Hamiltonian vector field
[AD-A134537] 07 p1062 N84-16890
Canonical derivation of the Vlasov-Coulomb noncanonical poisson structure
[DE84-002909] 07 p1064 N84-16900
Applications of natural constraints in critical point theory to periodic solutions of natural Hamiltonian systems
[AD-A136348] 09 p1373 N84-18968
Hamilton's principle as the basis for ocean circulation models
[AD-P002658] 11 p1690 N84-21023
Minimax methods for indefinite functionals
[AD-A137953] 11 p1716 N84-21190
On small period, large amplitude normal modes of natural Hamiltonian systems
[AD-A139314] 14 p2213 N84-24294
Stability of steady motion of planar body in field of central force 17 p2649 N84-26944
Hamiltonian representation of equations of hydrodynamics and its use in describing wave movements in currents with shear 18 p2865 N84-28190

Closed geodesics for the Jacobi metric and periodic solutions of prescribed energy of natural Hamiltonian systems
[AD-A141654] 19 p3066 N84-29588
Stability of equilibrium in problems with double resonance 19 p3117 N84-29809
Lagrangian singularities: Applications 19 p3118 N84-29812
Satellite orbit theories based on the elimination of the parallax 19 p3118 N84-29819
Hamiltonian structure of field-line equations
[DE84-011019] 20 p3282 N84-30836
A variational formulation for dissipative maps
[REPT-81] 20 p3263 N84-30846
Motion of vortex pair between parallel walls 21 p3486 N84-32092
Weak interactions on the lattice
[TH.3774-CERN] 23 p3819 N84-34219

HAMMERS
The measurement of mechanical point admittances by means of hammer excitation and tape recording. Part 1: A feasibility study
[TPD-308.780/1-VOL-1] 12 p1900 N84-22375
The measurement of mechanical point admittances by means of hammer excitation and tape recording. Part 2: Measuring and processing rules
[TPD-308.780/2-VOL-2] 12 p1900 N84-22376

HAND (ANATOMY)
NT FINGERS
A test of Fitts' law in two dimensions with hand and head movements
[AD-A133347] 07 p1051 N84-16810
Effects of long-term exposure to low positive temperatures on cold-induced vasodilation 18 p2896 N84-28371
The design of manually operated controls for a six-degree-of-freedom groundborne walking vehicle: Control strategies and stereotypes
[AD-P003273] 18 p2907 N84-28438
Evaluation of arm protheses for unilateral amputees 20 p3264 N84-30713

HANDBOOKS
NT USER MANUALS (COMPUTER PROGRAMS)
Making use of wind energy: A course in evaluating and choosing sites for small wind machines
[DE83-014945] 01 p0109 N84-10707
Winds: Chapter 6, 1983 revision. Handbook of Geophysics and Space Environments
[AD-A132018] 03 p0410 N84-12683
Handbook of aviation fuel properties
[AD-A132106] 04 p0509 N84-13338
Human factors products: A one-act play with epilogue
[AD-A133354] 07 p1052 N84-16811
Specifications, tolerances, and other technical requirements for weighing and measuring devices
[PB84-125764] 08 p1163 N84-17572
Royal Observatory, Edinburgh: Research and Facilities 1983
[ISBN-0-902553-27-5] 10 p1584 N84-20446
Multi-family update to the passive solar construction handbook 16 p2516 N84-26149
User's guide for ERB 7 SEFDT. Volume 1: User's guide. Volume 2: Quality control report, year 1
[NASA-CR-170616] 16 p2581 N84-26553
Introduction to Ada, a higher order language. L103 teacher's guide
[AD-A141848] 19 p3078 N84-29531
USAF durability design handbook: Guidelines for the analysis and design of durable aircraft structures
[AD-A142424] 20 p3128 N84-29866
Linear systems analysis program user's manual, version 2.2 (VAX/VMS)
[DE84-012230] 20 p3275 N84-30789
Weibull analysis handbook
[AD-A143100] 21 p3475 N84-32023
Guide to programs, fiscal year 1984: Guide describing National Science Foundation programs and activities
[PB84-193226] 21 p3516 N84-32270
The workload book: Assessment of operator workload to engineering systems
[NASA-CR-166596] 23 p3810 N84-34160
Payload crew training complex simulation engineer's handbook
[NASA-TM-86465] 23 p3814 N84-34186
Methods for estimating physicochemical properties of inorganic chemicals of environmental concern
[AD-A144154] 24 p3917 N84-34799
Handbook of geophysics and space environments. Chapter 16: Water vapor, precipitation, clouds and fog, revised
[AD-A144176] 24 p3934 N84-34901

HANDICAPS
Man-machine systems group
[WTHD-161] 20 p3263 N84-30703
The Man-Machine Systems Group 20 p3263 N84-30704
Information processing for use in the treatment of severely physically handicapped persons 20 p3264 N84-30711
Communication aids for the handicapped 20 p3265 N84-30715

HANDLES
Temperature rise of handles and knobs
[BLL-OA-TRANS-3047-(6198.3)] 04 p0533 N84-13502

HANDLEY PAGE AIRCRAFT
Note on the structural failure of Handley page 88 (E6/48) VX.330
[RAE-STRUCT-ACC-245] 17 p2603 N84-26678

HANDLING EQUIPMENT
NT CRANES

HANDLING QUALITIES
U CONTROLLABILITY

HANG GLIDERS
Aerodynamics, aeroelasticity, and stability of hang gliders 06 p0784 N84-15134
An evaluation of a mobile aerodynamic test facility for hang glider wings
[COFA-8330] 10 p1432 N84-19361
Full scale wind tunnel tests on hang glider pilots
[CA-8416] 16 p2438 N84-25643

HANGARS
Development of deployable structures for large space platforms. Volume 2: Design development
[NASA-CR-170914] 01 p0028 N84-10178
Design guidelines for heating aircraft hangars with radiant heaters
[AD-A138496] 12 p1774 N84-21565

HARBORS
West breakwater, Sines (Portugal) — conferences 08 p1194 N84-17785
West breakwater-Sines (Portugal). Overview of rehabilitation and synthesis of project 08 p1194 N84-17786
West breakwater-Sines (Portugal): Wave climatology 08 p1194 N84-17787
West breakwater-Sines (Portugal): Study of armor stability 08 p1194 N84-17788
West breakwater-Sines (Portugal): New aspects of armor units 08 p1195 N84-17789
USSR report: Transportation
[JPRS-UTR-84-004] 14 p2093 N84-23551
Optmization of breakwater lengths in relation to wave penetration
[PUBL-312] 15 p2360 N84-25160
USSR report: Transportation
[JPRS-UTR-84-016] 17 p2598 N84-26652
Differential NAVSTAR GPS (Global Positioning System) design concept for Harbor/Harbor entrance marine navigation
[AD-A141665] 19 p2961 N84-28769
USSR report: Transportation
[JPRS-UTR-84-026] 23 p3667 N84-33368
USSR report: Transportation
[JPRS-UTR-84-027] 24 p3851 N84-34422

HARDENERS
Development of a stable epoxy resin system for composite repair
[AD-A135390] 08 p1137 N84-17395

HARDENING
Hardening alloy surfaces by laser irradiation 24 p3869 N84-34518

HARDENING (MATERIALS)
NT CARBURIZING
NT COLD HARDENING
NT HOT PRESSING
NT NITRIDING
NT PRECIPITATION HARDENING
NT PULSE HEATING
NT SHOT PEENING
NT STRAIN HARDENING
NT WORK HARDENING
Laser surface hardened patterns for increased ballistic protection
[AD-A130385] 01 p0043 N84-10277
Continuous annealing of a Fe/0.1C/0.45Si/0.1Mo dual-phase steel
[DE83-015984] 01 p0047 N84-10300
Elasto-plastic analysis of plane stress problems using uniaxial symmetric Tresca yield surface and kinematic hardening 01 p0093 N84-10606
La Recherche Aerospatiale, Bimonthly Bulletin, no. 1982-6, 211/November-December 1982
[ESA-TT-801] 04 p0515 N84-13382
Fracture resistance of hardened and tempered pipes of 16GFR steel
[BLL-M-35268-(5828.4)] 06 p0857 N84-15584
A method of economical gear finishing of surface hardened gears 07 p0983 N84-16370
Analysis of microstructure and strengthening mechanisms in laser surface alloyed Fe-Cr and Fe-C-Cr alloy systems
[AD-A137971] 12 p1797 N84-21722
A parametric study of surface transformation hardening with high-power lasers
[AD-A140160] 16 p2497 N84-26023
Transformation plasticity in high-strength materials
[DE84-006655] 19 p2986 N84-29922
Surface layer effects on the mechanical behavior of metals
[AD-A142280] 20 p3152 N84-30018
Thermomechanical processing and texture development in Ni-Cr-Mo and Mn-Mo-B armor steels
[AD-A142352] 20 p3153 N84-30020
Influence of laser hardening on mechanical properties of type 45 steel 24 p3873 N84-34546

HARDNESS
NT MICROHARDNESS
NT ROCKWELL HARDNESS
Grinding of cast iron with wheels made of superhard materials
[CSIR-TRANS-1687] 01 p0056 N84-10368
Feasibility of using a large press (80,000 - 200,000 tons) for manufacturing future components on Army systems
[AD-A132398] 04 p0544 N84-13582
International Conference on Recent Developments in Specialty Steels and Hard Materials 08 p1130 N84-17348
Tempering kinetics of alloy steels as a function of quench rate and M sub s temperature
[AD-A134806] 08 p1132 N84-17365
Hardness of wet snow, 2 15 p2353 N84-25119
A parametric study of surface transformation hardening with high-power lasers
[AD-A140160] 16 p2497 N84-26023
Erosion of iron-chromium alloys by glass particles
[NASA-TP-2354] 19 p2993 N84-28965
Deposition of diamondlike carbon films
[NASA-CASE-LEW-14080-1] 19 p2996 N84-28986
Powder metallurgy of light metal alloys for demanding applications
[AD-A142066] 21 p3366 N84-31352
Hard Coatings for Tribological Systems Operating under Extreme Conditions
[DE84-009660] 21 p3368 N84-31369
Metal coating of diamond abrasives (review of foreign patents)
[CSIR-TRANS-1740] 22 p3552 N84-32489
Slavutich high-cobalt WC-Co-matrix alloy
[CSIR-TRANS-1739] 22 p3552 N84-32490
Pastes of superhard materials (review of inventions)
[CSIR-TRANS-1741] 22 p3552 N84-32491
Fracture toughness of crystalline and composite superhard materials 24 p3868 N84-34516

HARDNESS TESTS
Capacitor hardness demonstration program
[AD-A133045] 05 p0676 N84-14442
Metallurgical and mechanical tests of materials
[AD-A136347] 09 p1327 N84-18666
The use of Jominy end quench to assess the hardenability of higher strength titanium alloys
[PNR-90169] 19 p2991 N84-28957

HARDWARE
Processing elements
[AD-A131068] 03 p0420 N84-12743
Computer science and technology: Future information processing technology, 1983
[PB83-257618] 06 p0896 N84-15820
Space telescope
[NASA-CR-170948] 06 p0938 N84-16097
Automated synthesis of digital hardware modules: Simulation and verification of interconnections
[AD-A135298] 08 p1210 N84-17889
Inertial energy storage hardware definition study (ring rotor)
[NASA-CR-175271] 10 p1529 N84-20015
Missile system: Simulation and validation 12 p1764 N84-21502
Preservation, storage, handling and transportation of ESA spacecraft hardware
[ESA-PSS-01-202-ISSUE-1] 16 p2475 N84-25868
Quality assurance of test houses for ESA spacecraft and associated equipment
[ESA-PSS-01-203-ISSUE-1] 16 p2500 N84-26042
Modular and standardized GAS payload hardware 18 p2799 N84-27765
The Demos multi-computer project: Hardware aspects
[NPL-DITC-36/84] 18 p2917 N84-28493
Advanced X-ray Astrophysics Facility (AXAF)
[NASA-CR-171156] 23 p3698 N84-33434
Development of hardware and software for automatic optical surface inspection with laser scanners
[BMFT-FB-T-84-111] 23 p3755 N84-33805

High-performance specialized processors for calculation of elementary and special functions
24 p3941 N84-34950
Software debugging devices for microprocessors
24 p3941 N84-34952

HARMONIC ANALYSIS
Prototype tidal data analysis for Mississippi Sound and adjacent areas
[AD-A134071] 06 p0883 N84-15744
The Dirichlet problem for harmonic maps from the disk into the Euclidean n-sphere
[AD-A139259] 14 p2213 N84-24287
Subharmonic vibrations of rotor mounted in rolling bearings 17 p2649 N84-26843
A Taylor series in symmetry-adaptable functions
[AD-A142336] 20 p3280 N84-30619
Analytical model of the structureborne interior noise induced by a propeller wake
[NASA-CR-172381] 21 p3490 N84-32119
Image identification by method of integral fluctuations
22 p3568 N84-32601
An extension of deLeeuw's theorem to the N-dimensional rotation group 22 p3636 N84-33046
Comparison of frequency-domain and time-domain rotorcraft vibration control methods
[NASA-CR-166570] 24 p3852 N84-34431

HARMONIC EXCITATION
Nonlinear coupling responses to variable frequency excitations 10 p1515 N84-19920

HARMONIC FUNCTIONS
Boundary behavior of harmonic functions
02 p0283 N84-11857
Positive biharmonic functions
04 p0575 N84-13786
F-harmonic measure in space
04 p0576 N84-13794
On the Harnack constant and the boundary behavior of Harnack functions 04 p0576 N84-13796
Hyperharmonic cones and hyperharmonic morphisms
[ISBN-951-41-0476-5] 21 p3475 N84-32027
Annals of the Fourier Institute, volume 34, no. 1
[ISSN-0373-0956] 22 p3633 N84-33025
On the boundary limits of harmonic functions with gradient in L sup p 22 p3634 N84-33030
The growth of plurisubharmonic functions in infinite domain 22 p3634 N84-33033
Annals of the Fourier Institute, volume 34, no. 2
[ISSN-0373-0956] 22 p3635 N84-33038
On the A-integrability of singular integral transforms
22 p3635 N84-33042

HARMONIC GENERATIONS
Second harmonic generation at thin film silver electrodes via surface polaritons
[AD-A143597] 23 p3824 N84-34254

HARMONIC GENERATORS
Harmonic generation in paramagnetic spin systems
[AD-A130895] 01 p0153 N84-11004
Interaction of electromagnetic fields with plasma
[AD-A135173] 08 p1232 N84-18054
Theory of the two-frequency operating mode of traveling-wave tubes of the O type
[AD-A137616] 11 p1646 N84-20763
Field demonstration of three-phase wariess motors
[AD-A140085] 15 p2330 N84-24989

HARMONIC MOTION
A determination and analysis of polar motion
02 p0247 N84-11615
A superconducting microwave parametric converter transducer sensitive to 10 to the minus nineteenth power m harmonic motion 21 p3489 N84-32112
Preliminary design study of a higher harmonic blade feathering control system
[NASA-CR-159327] 23 p3695 N84-33418

HARMONIC OSCILLATION
The harmonic structure of PC 3-4 magnetic pulsations at geosynchronous orbit and its relation to the solar wind 06 p0940 N84-16106
Note on subharmonic solutions of a Hamiltonian vector field
[AD-A134537] 07 p1062 N84-16890
Doublet point method for calculations on oscillatory lifting surfaces. Part 1: Subsonic flow
[NAL-TR-781-PT-1] 09 p1251 N84-18168
Calculation of apparent masses in blade ring
13 p1971 N84-22793
Synthesis of frequency spectra based on use of multilevel pulse sequences 17 p2634 N84-26848
Method of analysis of combination oscillations of arbitrary nonlinear system for spectrum conversion
17 p2634 N84-26849
Comparative measurements of the unsteady pressures on three oscillating wing-tip models
[DFVLR-FB-84-07] 19 p2960 N84-28758

HARMONIC OSCILLATORS
On perturbation theory
[AD-A130213] 01 p0131 N84-10856
Hadronic multiplicity distributions: Example of a universal stochastic mechanism
[DE83-015232] 03 p0434 N84-12845
The transfer of atoms, ions and molecular groups in solution. Part 2: Tunnelling between harmonic wells
[AD-A142334] 20 p3147 N84-29982
The theory of free electron lasers
[INPE-3158-TDL/170] 23 p3753 N84-33790

HARMONIC RADIATION
Power line radiation in the magnetosphere
07 p0986 N84-16387

HARMONICS
NT HARMONIC EXCITATION
NT HARMONIC GENERATIONS
NT HARMONIC OSCILLATION
NT SPHERICAL HARMONICS
High space harmonic perturbations in traveling wave tubes
[AD-A130204] 01 p0070 N84-10458
Low-input-harmonics power supplies
[AD-A130337] 01 p0071 N84-10462
Stormer equation implementation using offset dipole coordinates derived from specified geographic coordinates
[AD-A130079] 01 p0104 N84-10676
Sound velocity anisotropy in cubic crystals
[NASA-CR-175344] 07 p1079 N84-17016
Design of helicopter rotor blades for optimum dynamic characteristics
[NASA-CR-175360] 08 p1103 N84-17171
Real-time implementation of a speech digitization algorithm combining time-domain harmonic scaling and adaptive residual coding, volume 1
[AD-A135232] 08 p1150 N84-17485
Real-time implementation of a speech digitization algorithm combining time-domain harmonic scaling and adaptive residual coding, volume 2
[AD-A135233] 08 p1150 N84-17486
Extra losses in the inductor windings of induction heaters and electric machines
[BLL-OA-TRANS-3114-(6196.3)]
09 p1306 N84-18534
Harmonizable filtering and sampling of time series
[AD-A137517] 10 p1570 N84-20285
Experimental study of turbulent swirling flows
11 p1650 N84-20776
Diffraction effects in Cerenkov radiation
[AD-A137540] 11 p1729 N84-21281
The potential dependence of surface plasmon-enhanced second harmonic generation at thin film silver electrodes
[AD-A139322] 12 p1793 N84-21692
On the grid generation methods in harmonic mapping on plane and curved surfaces
[NASA-CR-172331] 12 p1893 N84-22327
Installation noise measurements of model SR and CR propellers
[NASA-TM-85790] 15 p2403 N84-25425
Theory of exterior and harmonic eigenstrains
16 p2503 N84-26065
Generalized model of lunar gravitational field
19 p2975 N84-28860
Relativistic electromagnetic instabilities near electron cyclotron frequency and harmonics
[DE84-009672] 19 p3107 N84-29745
Experiments and theory on half-harmonic light and 2-plasmon decay
[DE84-008945] 20 p3193 N84-30276
Dual aperture dipole magnet with second harmonic component
[DE84-011305] 20 p3285 N84-30656
Optical second-harmonic generation for surface studies
[DE84-010718] 20 p3300 N84-30958
Fundamental and harmonic emission in interplanetary type 2 radio bursts
[NASA-TM-86099] 20 p3320 N84-31079
Effect of radial load distribution on the first-harmonic inflow velocity of a helicopter rotor at transition speeds
[AD-A142840] 21 p3325 N84-31100
Measurement of LINAC bunch parameters using the Cerenkov effect
[AD-A143128] 21 p3493 N84-32136
How useful are odd-integer half-harmonics
[DE84-012392] 21 p3501 N84-32190
A 1-dimensional disk model simulation for klystron design
[DE84-013793] 22 p3588 N84-32727
Harmonic maps from S-2 to IHP-2
22 p3645 N84-33109
Period-doubling 2-torus state in a convecting He-3-superfluid He-4 solution
[DE84-009985] 22 p3666 N84-33243

HARNESSES
UH-60 shoulder harness lead-in strap failure analysis
[AD-A138014] 12 p1867 N84-22170
Position and restraint system for aircrewman
[AD-D011058] 22 p3532 N84-32364
Harness formation end-effector with interchangeable tool capability
[AD-D011166] 23 p3757 N84-33813

HARRIER AIRCRAFT
A pilot/vehicle model analysis of the effects of motion cues on Harrier control tasks
[AD-A136291] 09 p1258 N84-18209
Ground based testing without wind tunnels
18 p2437 N84-25634
Aerodynamics of V/STOL aircraft: Performance assessment 18 p2437 N84-25635
The development of military aircraft engine monitoring systems 17 p2585 N84-26570

HARTREE APPROXIMATION
Determination of energetics and spectra of simple molecular systems using theoretical methods
[DE84-009668] 20 p3296 N84-30930
Current status of calculations and measurements of ion stopping power in ICF plasmas
[DE84-005880] 21 p3501 N84-32187

HARTREE-APPLETON APPROXIMATION
U HARTREE APPROXIMATION

HARTREE-FOCK APPROXIMATION
U HARTREE APPROXIMATION

HATCHES
A test of electroluminescent panels for a helicopter emergency escape lighting system
[AD-A139478] 14 p2103 N84-23618

HAWAII
Statistics of instantaneous rainfall rates
[AD-A130089] 01 p0107 N84-10695
Barking Sands, Hawaii. Range reference atmosphere 0-70 km altitude
[AD-A137406] 10 p1590 N84-20421
Design of the near shore seawater systems for an OTEC expanded test facility
[DE84-004043] 11 p1674 N84-20926
The 1950 sulfur flow of Mauna Loa: Considerations for Io 13 p2080 N84-23479
Effusion rate, length, and area relationships for some lava flows on Hawaii and Mount Etna with planetary implications 13 p2080 N84-23482
Thermal infrared analysis of volcanic surfaces: Mars and Hawaii 13 p2088 N84-23524

HAWKER SIDDELEY AIRCRAFT
NT HARRIER AIRCRAFT

HAZARDOUS MATERIAL DISPOSAL (IN SPACE)
Atmospheric dispersion of ammonia: An ammonia fog model
[DE84-000165] 04 p0560 N84-13689

HAZARDS
NT AIRCRAFT HAZARDS
NT FLIGHT HAZARDS
NT OPERATIONAL HAZARDS
NT RADIATION HAZARDS
NT TOXIC HAZARDS
Hazards Control Department annual technology review, 1982
[DE83-015598] 03 p0439 N84-12883
A study on sound guidance for evacuation: Effect of megaphoned evacuation guidance in smoke
04 p0512 N84-13356
Natural hazards photograph catalog, key to geophysical records documentation no. 20
[PB83-250415] 04 p0557 N84-13674
Radio-frequency detonation hazards: Multiple-transmission safety assessment of a detonator loop that may be resonant
[BBC-RD-1983/11] 05 p0666 N84-14380
Research and technology at the Kennedy Space Center
[NASA-TM-83092] 05 p0759 N84-14975
State-of-the-Art for assessing earthquake hazards in the United States. Report 20: The contribution of directivity focusing to earthquake intensities
[AD-A132893] 06 p0878 N84-15716
Crashworthy cyclic control stick
[AD-A135150] 08 p1103 N84-17176
Heron, volume 28, no. 1, 1983. Dynamic elasto-plastic model for reinforced concrete members
[PB84-109057] 08 p1172 N84-17635
Overall fire safer 11 p1727 N84-21264
Indicators of hazard for polycyclic organic matter
[PB84-167493] 15 p2288 N84-24730
Accident surrogates for use in analyzing highway safety hazards. Volume 1: Executive summary
[PB84-174739] 16 p2477 N84-25883
Accident surrogates for use in analyzing highway safety hazards, volume 2
[PB84-174747] 16 p2478 N84-25884
Accident surrogates for use in analyzing highway safety hazards. Volume 3: Appendices A-G
[PB84-174754] 16 p2478 N84-25885

Ground penetrating radar: A review of its application in the mining industry, information circular 1984
[PB84-178292] 20 p3176 N84-30172
Natural phenomena hazards modeling project: Extreme wind-tornado hazard models for Department of Energy sites
[DE84-011157] 20 p3247 N84-30608
Seismic hazard study for selected sites in New Mexico and Nevada
[AD-A143992] 22 p3623 N84-32960
Evaluation and control of laser hazards
22 p3632 N84-33018
Emergency handling of compressed air casualties
[AD-A143598] 23 p3810 N84-34157

HAZE
Arctic haze: Natural or pollution?
[AD-A134263] 07 p1039 N84-16737
The feasibility of using precursor aerosol parameters to predict visibility in fog and haze
[AD-A137141] 10 p1539 N84-20084
The effect of haze on an operator's visual field and his target detection performance
[AD-A138330] 13 p2020 N84-23099
Understanding and utilization of Thematic Mapper and other remotely sensed data for vegetation monitoring
[E84-10150] 16 p2508 N84-26096
A physical and chemical study of Titan: Atmosphere, clouds, and hazes 17 p2776 N84-27626

HAZE DETECTION
Yellow ophthalmic filters in the visual acquisition of aircraft
[AD-A139536] 13 p2020 N84-23097
Mapping of Arctic haze using airborne lidar
24 p3907 N84-34746

HBMQ
U NITROGUANIDINE

HCMM
U HEAT CAPACITY MAPPING MISSION

HCN LASERS
Multifrequency emission from submillimeter lasers
21 p3487 N84-32096

HD-1 GROUND EFFECT MACHINES
U HOVERCRAFT GROUND EFFECT MACHINES

HEAD (ANATOMY)
Effects of head impact acceleration on human performance: Overview and preliminary battery identification
[AD-A130295] 01 p0116 N84-10754
Simulation of cerebrocranial trauma for evaluation and development of gear to protect pilots against impacts
02 p0259 N84-11695
Vestibulo-ocular reflex gain in man during active versus passive oscillation and the influence of voluntary gaze-control tasks
[AD-A132006] 03 p0415 N84-12717
Respiratory tract closing volume and structure of total lung capacity during seven-day hypokinesia in head-down position 07 p1045 N84-16778
A test of Fitts' law in two dimensions with hand and head movements
[AD-A133347] 07 p1051 N84-16810
Hyperpyrexia and head trauma
[AD-A139420] 14 p2185 N84-24090
Gaze control during horizontal and vertical target tracking
[AD-A144484] 24 p3938 N84-34926

HEAD (FLUID MECHANICS)
NT PRESSURE HEADS

HEAD (PRESSURE)
U PRESSURE HEADS

HEAD-UP DISPLAYS
Integration of fire control, navigation system and head up display 03 p0315 N84-12060
Fixed-base simulator investigation of Display/SCAS requirements for army helicopter low-speed tasks
[AD-A134123] 05 p0630 N84-14140
The ability to process abstract information
[AD-A133794] 05 p0716 N84-14689
Head-Up Display (HUD) technology demonstration
[AD-A134695] 08 p1104 N84-17180
Optical and human performance evaluation of HUD (Head-Up Display) systems design
[AD-A140601] 17 p2588 N84-26587
Measurement of HUD (Head-Up Display) optical quality
[AD-P003158] 17 p2588 N84-26589
Optical interactions of aircraft windscreens and HUDs (Head-Up Displays) producing diplopia
[AD-P003159] 17 p2588 N84-26590
Sun/Moon capture evaluation
[AD-P003160] 17 p2588 N84-26591
Estimating detection range and range loss looking through windshields and Head-Up Displays
[AD-P003161] 17 p2588 N84-26592
Direct performance assessment of HUD (Head-Up Display) display systems using contrast sensitivity
[AD-P003162] 17 p2589 N84-26593
Physical integration of the HUD (Head-Up Display)
[AD-P003163] 17 p2589 N84-26594
Future development trends for Head-Up Displays
[AD-P003164] 17 p2589 N84-26595
Visual effects of F-16 Canopy/HUD (Head-Up Display) integration
[AD-P003221] 17 p2595 N84-26634
Optical effects of F-16 Canopy-HUD (Head-Up Display) integration
[AD-P003222] 17 p2595 N84-26635
Heads up display
[NASA-CASE-LAR-12630-1] 18 p2795 N84-27733
Factors affecting visual performance with stereoscopic television displays
[AD-P003362] 18 p2913 N84-28475
Horizontal diplopia thresholds for head-up displays
[AD-A141965] 20 p3129 N84-29872
F-16 and A-10 diffraction optics Head Up Display (HUD) flight test evaluation 24 p3849 N84-34411

HEADSETS
U EARPHONES

HEALING
NT WOUND HEALING
Experimental investigation of the effect of electrets on bone healing 23 p3809 N84-34150

HEALTH
NT HEALTH PHYSICS
NT MENTAL HEALTH
NT PUBLIC HEALTH
Environmental, health and safety assessment of photovoltaics
[NASA-CR-173739] 18 p2877 N84-28267
Guidelines for health surveillance in the NASA (National Aeronautics and Space Administration) workplace
[NASA-CR-173677] 18 p2899 N84-28390
Health risks associated with aircraft model type among US Navy pilots
[AD-P003270] 18 p2907 N84-28435
Review of occupational medicine relevant to aviation medicine 22 p3631 N84-33012

HEALTH PHYSICS
NT PUBLIC HEALTH
Evaluation of a draft standard on performance specifications for health physics instrumentation
[DE83-016169] 02 p0266 N84-11749
OSHA medical and workplace surveillance requirements and NIOSH recommendations (for employees exposed to toxic substances and other work hazards)
[NASA-CR-3690] 07 p0966 N84-16258
Human exposure in low Earth orbit
[NASA-TP-2344] 19 p3070 N84-29479
Develop real-time dosimetry concepts and instrumentation for long-term missions
[NASA-CR-171809] 22 p3599 N84-32791

HEAO
NT HEAO 1
NT HEAO 2
The star splitters: The high energy astronomy observatories
[NASA-SP-466] 12 p1921 N84-22516

HEAO A
U HEAO 1

HEAO B
U HEAO 2

HEAO 1
X-ray observations of cataclysmic variables
06 p0936 N84-16084

HEAO 2
Surveys of globular cluster and galactic plane X-ray sources 04 p0622 N84-14102
A study of the discrepant QSO X-ray luminosity function from the HEAO-2 data archive
[NASA-CR-173311] 09 p1413 N84-19240
V-V compact group of galaxies
[NASA-CR-173609] 16 p2577 N84-26537
Corona models tested with IUE and Einstein observations 24 p3970 N84-35139
Spatial fluctuations in the diffuse cosmic X-ray background
[NASA-TM-85029] 24 p3994 N84-35281

HEARING
NT BINAURAL HEARING
Development of a microprocessor based audiometer for threshold shift studies
[AD-A142124] 19 p3065 N84-29448

HEARING LOSS
U AUDITORY DEFECTS

HEART
NT CARDIAC VENTRICLES

HEART DISEASES
Psychological and biochemical effects of a stress management program
[AD-P003300] 18 p2909 N84-28447
Use of the Doppler ultrasound method to evaluate the rate of blood flow in children with patent ductus arteriosus
[ISSN-0208-5658] 19 p3064 N84-29441

HEART FUNCTION
NT HEART MINUTE VOLUME
Assessment of the functional state of the heart muscle in aircrew members by means by bicycle ergometry
08 p1199 N84-17815
Contribution of cardiac mechanograms in the expert examination of flying personnel
11 p1700 N84-21089
Echocardiography in the expert examination of flying personnel 11 p1700 N84-21090
The contribution of nuclear medicine to cardiology
11 p1700 N84-21092
Hallistocardiography: A non-invasive method advancing towards clinical application 11 p1701 N84-21093
Use of changes in electrical impedance in cardiology
11 p1701 N84-21094
Value of the tilt table in the exploration of circulatory function 11 p1701 N84-21095
Influence of exam stress on cardiac function of students differing in level of physical activity
15 p2378 N84-25268

HEART MINUTE VOLUME
Changes in cardiac output and orthostatic stability of cosmonauts 02 p0259 N84-11697

HEART RATE
NT ARRHYTHMIA
NT SYSTOLE
The energy cost and heart rate response of trained and untrained subjects walking and running in shoes and boots
[AD-A131420] 01 p0113 N84-10735
A method of assessing cardiac function with bicycle ergometry in expert medical certification of pilots
02 p0262 N84-11716
Amplitude distributions of the spider heartpulse in response to gravitational stimuli
09 p1353 N84-18841
The exercise electrocardiogram
11 p1699 N84-21085
Circadian rhythm of human heart rate during antiorthostatic tests 15 p2376 N84-25259
Effect of working in two shifts on circadian rhythm of heart rate 15 p2376 N84-25260
Influence of exam stress on cardiac function of students differing in level of physical activity
15 p2378 N84-25268
Response of cardiac rhythm to information load
18 p2898 N84-28384
The effects of marginal vitamin deficiency on mental performance
[IZF-1983-29] 18 p2914 N84-28483
Response of the cardiovascular system to vibration and combined stresses
[AD-A142166] 19 p3066 N84-29450
Heart rhythm changes in response to sensorimotor load of varying complexity 21 p3452 N84-31908
Assessing pilot workload in flight
24 p3849 N84-34408

HEART VALVES
Ultrasonic and optical evaluation of surgical implant materials and devices. A durability study of pericardial bioprostheses
[NASA-CR-173437] 16 p2535 N84-26274

HEARTHS
Deep geophysical investigations in zones of present-day active volcanism 17 p2701 N84-27204

HEAT
NT HEAT OF DISSOCIATION
NT PROCESS HEAT
Heat checking in the contact zone of a face seal: A three-dimensional model of a single moving asperity
[AD-A130756] 01 p0079 N84-10513
The physiological effects of simultaneous exposures to heat and vibration
[NASA-TM-84400] 01 p0113 N84-10732
A laboratory comparison of portable cooling systems for workers exposed to two levels of heat stress
[AD-A131848] 03 p0372 N84-12423
Effect of atropine on the exercise-heat performance of man
[AD-A131843] 03 p0416 N84-12719
Effectiveness in reducing heat stress of three conditioned-air cooling vests worn with and without cooling air supplied to a face piece
[AD-A131975] 03 p0417 N84-12726
Physiological responses of normotensives and essential hypertensives to exercise in the heat
04 p0572 N84-13768
Turbulent exchange of carbon dioxide, water vapor, heat and momentum over crop surfaces
10 p1538 N84-20079

Exercise in the heat. Effects of saline or bicarbonate infusion
[AD-A137194] 11 p1696 N84-21061
An assessment of advanced technology for industrial cogeneration
[NASA-CR-173456] 12 p1841 N84-22001
A droplet evaporation rate controlled combustion model 15 p2293 N84-24761
Influence of hydration level and body fluids on exercise performance in the heat
[AD-A139284] 15 p2380 N84-25261
Heat: Initiated furan resin for rapid runway repair
[AD-A140902] 17 p2611 N84-26713
Influence of heat stress and acclimation on maximal aerobic power
[AD-A142329] 19 p3066 N84-29453
Sputter-deposited metallic and ceramic coatings for heat engines
[DE84-011401] 20 p3154 N84-30030

HEAT ACCLIMATIZATION
Heat exchange following atropine injection before and after heat acclimation
[AD-A132618] 06 p0690 N84-15780
Thermal control problems in military helicopters 16 p2537 N84-26286
Individual responses to combined heat and physical load 18 p2896 N84-28374
Effects of adaptation to hot climate on thermoreception 18 p2896 N84-28375
Effects of short-term heat adaptation on certain indicators of physical capacity for work 18 p2897 N84-28380
Dynamics of functional status and subjective sensations in process of heat adaptation 21 p3456 N84-31931

HEAT BALANCE
Estimation of melting rate of snow by simple formulae using only air temperature 15 p2353 N84-25121
Optical properties of melting snow, 1 15 p2354 N84-25122

HEAT BUDGET
NT ATMOSPHERIC HEAT BUDGET

HEAT CAPACITY
U SPECIFIC HEAT

HEAT CAPACITY MAPPING MISSION
Identifying environmental features for land management decisions
[E84-10016] 03 p0392 N84-12556
The Heat Capacity Mapping Mission (HCMM) anthology
[E84-10051] 05 p0695 N84-14563
Introduction: Historical perspective on the HCMM program 05 p0695 N84-14564
Interpretation of HCMM images: A regional study 05 p0696 N84-14566
A gallery of HCMM images 05 p0696 N84-14567
Significant results from the HCMM program 05 p0696 N84-14568
Summary and overview 05 p0696 N84-14569
The HCMM system: Development and performance 05 p0696 N84-14570
Use of coregistered radar, visible and IR images for geologic remote sensing 07 p0987 N84-16393
Heat Capacity Mapping Radiometer (HCMR) data processing algorithm, calibration, and flight performance evaluation
[E84-10153] 17 p2709 N84-27248
Interpretation of combined LANDSAT-Heat Capacity Mapping Mission (HCMM) data for geological analysis. Evaluation of scale effect on interpretation of a multisource image 23 p3769 N84-33894
Use of satellites in frost forecasting: SIPHES 23 p3775 N84-33931

HEAT CONDUCTION
U CONDUCTIVE HEAT TRANSFER

HEAT CONTENT
U ENTHALPY

HEAT DISSIPATION
U COOLING

HEAT DISSIPATION CHILLING
U COOLING

HEAT EFFECTS
U TEMPERATURE EFFECTS

HEAT EQUATIONS
U THERMODYNAMICS

HEAT EXCHANGERS
NT TUBE HEAT EXCHANGERS
Computer program for performance and sizing analysis of compact counter-flow plate-fin heat exchangers, research and development report
[AD-A129856] 01 p0078 N84-10508
Comparison of calculated results from 2 analytical models with measured data from a heat-exchanger flow test
[DE83-013071] 01 p0082 N84-10534
Auxiliary heat-exchanger flow-distribution test
[DE83-012698] 01 p0082 N84-10535
Microbial fouling and its effect on power generation
[AD-A131084] 01 p0112 N84-10726
Vertical concentric-tube ground-coupled heat exchangers
[DE83-014003] 02 p0219 N84-11435
In-house welding studies supporting the prelaunch assessment of the STS-6 main engines
[NASA-TM-82552] 02 p0229 N84-11499
Tailoring polymer films for solar-collection use, phase 1
[DE83-018117] 03 p0404 N84-12640
Reliability and maintainability study of select solar-energy-system components in the National Solar Data Network
[DE83-011974] 03 p0404 N84-12647
New conformal solution theory
[PB83-249441] 03 p0457 N84-13008
Thermal and hydraulic performance of a sieve-tray direct-contact heat exchanger
[DE84-000663] 04 p0537 N84-13531
A small and light weight heat exchanger for on-board helium refrigerator 06 p0819 N84-15339
Evaluation of air-cooled central receivers
[DE83-005130] 06 p0833 N84-15423
Wind-powered heat pump experiment
[DE84-003141] 07 p1026 N84-16647
Development of a contact heat exchanger for a constructable radiator system
[NASA-CR-171730] 08 p1155 N84-17523
Development of a solar energy system
[DE83-014236] 08 p1180 N84-17690
Development of a solar energy system: Executive summary
[DE83-014392] 08 p1181 N84-17693
Thermal control 09 p1269 N84-18289
The Giotto thermal control shutter 10 p1444 N84-19435
Air/molten salt direct-contact heat-transfer experiment and economic analysis
[DE84-000080] 11 p1675 N84-20928
Mitigation of biofouling using coatings
[DE84-006112] 11 p1693 N84-21041
Assessment of ceramic materials technology for heat exchangers
[DE84-005748] 12 p1802 N84-21748
Direct-contact high-temperature thermal energy storage heat exchanger
[DE84-000012] 12 p1816 N84-21839
A survey of gas-side fouling in industrial heat-transfer equipment
[NASA-CR-173469] 12 p1841 N84-22003
USSR report: Engineering and equipment
[JPRS-UEQ-84-004] 13 p1967 N84-22772
Heat/mass flow enhancement design for a metal hydride assembly, phase 2
[DE84-007182] 13 p1990 N84-22920
USAF shale oil program status 14 p2107 N84-23633
Thermal energy recovery in gas turbine engine test cells
[AD-A139457] 14 p2172 N84-24009
Theoretical analysis of a kinematic Stirling-cycle heat pump for space conditioning applications
[DE84-010240] 15 p2344 N84-25072
Reynolds number effects on pressure loss and turbulence characteristics of four tube-bundle heat exchangers
[NASA-TM-85807] 16 p2439 N84-25645
Gas-fired duplex free-piston Stirling refrigerator
[PB84-171537] 17 p2639 N84-26884
Studies of heat transfer in complex internal flows
[AD-A140804] 17 p2668 N84-27014
The heat pipe exchanger with controllable heat exchanging area 20 p3169 N84-30124
Ceramic heat exchanger design methodology
[DE84-010581] 21 p3370 N84-31385
State of technology of direct contact heat exchanging
[DE84-012824] 21 p3402 N84-31585
Heat transfer with phase change in plate-fin heat exchangers
[DE84-006405] 22 p3596 N84-32771
Dynamic characteristics of heat exchanger tubes vibrating in a tube support plate inactive mode
[DE84-014844] 23 p3761 N84-33840
Heat transfer characteristics of regenerator matrix (case of packed wire gauzes)
[NASA-TM-77448] 24 p3899 N84-34693

HEAT FLOW
U HEAT TRANSMISSION

HEAT FLUX
A review of nonequilibrium effects and surface catalysis on shuttle heating 01 p0024 N84-10154
Development of a calorimeter forimultaneously measuring heat release and mass loss rates
[PB83-222711] 01 p0085 N84-10555
Determination of the uncertainty of experimental heat-flux calibrations
[AD-A131918] 03 p0376 N84-12450
Role of thermal conduction in the acceleration of the solar wind 03 p0467 N84-13079
The collapse of the local, Spitzer-Haerm formulation and a global-local generalization for heat flow in an inhomogeneous, fully ionized plasma 03 p0468 N84-13080
The transient response of circular foil heat-flux gages
[DE83-017785] 04 p0538 N84-13541
A variational method for estimating the general circulation in the ocean 04 p0550 N84-13626
Surface heat flux derived from sodar amplitude and frequency data: A comparison
[DE83-017930] 04 p0564 N84-13717
A review of NASA combustor and turbine heat transfer research
[NASA-TM-83541] 05 p0631 N84-14146
Long term upper ocean study (LOTUS) at 34 deg N, 70 deg W: Meteorological sensors, data and heat fluxes for May-October 1982 (LOTUS-3 and LOTUS-4)
[AD-A133883] 05 p0711 N84-14659
Thermal analysis research applicable to space station technology needs
[NASA-TM-84658] 06 p0834 N84-15426
Critical heat flux in forced convection boiling of Freon in a tube at high subcritical pressure: In the case of vapor-liquid mixture at inlet 07 p0984 N84-16373
Advanced high temperature heat flux sensors
[NASA-TM-83526] 07 p1001 N84-16493
Effects of broadened property fuels on radiant heat flux to gas turbine combustor liners
[NASA-TM-83537] 07 p1001 N84-16494
Homogenization for a Volterra equation
[AD-A134427] 07 p1061 N84-16882
Atmospheric planetary-wave response to external forcing
[NASA-CR-175165] 08 p1186 N84-17726
Acoustic signature from flames as a combustion diagnostic tool
[AD-A136447] 09 p1278 N84-18347
Flight tests of instrumentation for airborne carbon dioxide flux measurement
[AD-A135856] 09 p1342 N84-18767
Statistics of vertical shear from a hemispheric model
[AD-A136179] 10 p1543 N84-20111
Liner environment effects study 11 p1613 N84-20556
Eddy heat flux in the North Pacific
[AD-P002666] 11 p1691 N84-21031
Overall fire safer 11 p1727 N84-21264
Ocean fluxes simulated by the GLAS GCM 12 p1855 N84-22085
Some properties of transient phenomena in the extra-tropical region and their importance in the seasonal mean flow 12 p1859 N84-22112
NASA/General Electric broad-specification fuels combustion technology program 14 p2107 N84-23636
Investigation of the effects of pressure gradient, temperature and wall temperature ratio on the stagnation point heat transfer for circular cylinders and gas turbine vanes
[NASA-CR-174667] 14 p2109 N84-23649
Thermal evaluation of selected ablative materials in transient low heat flux environments
[AD-A139441] 14 p2130 N84-23768
Geothermal resources of southern Idaho
[USGS-CIRC-866] 14 p2168 N84-23988
Evaluation of multi-dimensional flux models for radiative transfer in combustion chambers: A review 15 p2293 N84-24760
Performance of thermal barrier coatings in high heat flux environments
[NASA-TM-83663] 15 p2295 N84-24772
Turbulent Prandtl number distribution within the constant stress/heat-flux region of a near-wall flow
[SME-8401] 16 p2486 N84-25945
Determination of the Io heat flow. 1: Eclipse observations
[NASA-CR-173631] 17 p2774 N84-27614
On Io, all that flickers is not cold
[NASA-CR-173447] 17 p2777 N84-27631
Observing ocean-atmosphere exchanges with space-borne sensors, appendix C 18 p2884 N84-28298
Experimental natural convective studies within a compound parabolic concentrator enclosure
[DE84-006967] 19 p3025 N84-29184
Spatial distribution of advective heat influxes in atmosphere over Northern Hemisphere and its relationship to heat influxes from ocean 20 p3223 N84-30482

Magnetic fusion energy plasma interactive and high heat flux components. Volume 1: Technical assessment of the critical issues and problem areas in the plasma materials interaction field
[DE84-011527] 20 p3302 N84-30969
Development of advanced thermal insulation for appliances
[DE84-013132] 22 p3594 N84-32763
Turbine blade and vane heat flux sensor development, phase 1
[NASA-CR-168297] 22 p3598 N84-32790
Urban scale variations of turbulence parameters and fluxes
[PB84-209113] 22 p3626 N84-32980
Temperature and heat-flux distributions in a strip-heated composite slab
[DE84-006016] 23 p3712 N84-33529
Dynamic stress in elastic areas developing upon interaction of intensive heat fluxes with solid bodies
24 p3873 N84-34545

HEAT GAIN
U HEATING

HEAT GENERATION
Application of stress-generated heat in composites to thermographic NDT 15 p2310 N84-24864
Special test methods for batteries
23 p3736 N84-33695
Efficiency and operating experience of Block Heating Power Stations (BHPS) 23 p3792 N84-34049
Optimization of the thermodynamic cycles of a collective heating power station 23 p3832 N84-34305

HEAT MEASUREMENT
Calorimeter operating system implemented on a Z-80 microcomputer in read only memory
[DE83-016647] 03 p0419 N84-12734
Cryogenic testing of the TPC superconducting solenoid
[DE84-000528] 04 p0527 N84-13467
The transient response of circular foil heat-flux gages
[DE83-017785] 04 p0538 N84-13541
Thermal property measurement techniques and some results for CdTe
[AD-A133899] 05 p0753 N84-14936
Experience of the axial field spectrometer at the CERN ISR 06 p0910 N84-15912
Review of properties of various types of calorimeters: High luminosity and high energy
06 p0911 N84-15917
Scintillators and waveshifters for fast scintillator-WSB calorimetry 06 p0913 N84-15929
Calorimetry at L = 10/sup 33
06 p0913 N84-15931
Operation of a high-P/sub T spectrometer arm at 10/sup 33 cm-2 sec-1 with particle identification
06 p0913 N84-15937
Muons and electrons in general
06 p0914 N84-15938
The practical use of data as to the solution enthalpies of molten Fe-V-Si
[BLL-M-35430-(5828.4)] 08 p1129 N84-17342
Instrumentation techniques for aerodynamic heating measurement in NAL hypersonic gun tunnel
[NAL-TR-780] 09 p1258 N84-18213
Chemical reactions possibly useful for low temperature thermal energy storage
[DE84-004126] 09 p1342 N84-18763
Transient horizontal flame spread tests on cellular plastics - experimental results, volume 1
[PB84-135458] 10 p1469 N84-19595
Periods found in heat measurements obtained by calorimetry
[DE84-007446] 14 p2220 N84-24321
Isothermal calorimetric investigation of a reversible reaction in rapidly solidified Fe40Ni40B20
[DE84-006013] 15 p2296 N84-24791
Application of stress-generated heat in composites to thermographic NDT 15 p2310 N84-24864
A combined thermodynamic study of nickel-base alloys
[DE84-013467] 21 p3368 N84-31368
Calorimetric and thermogravimetric analysis applied to industrial polymers
[SNIAS-841-551-101] 21 p3372 N84-31399
Heat-of-mixing experiments for liquefied gases
[PB84-215094] 22 p3562 N84-32560

HEAT OF COMBUSTION
Development of a calorimeter forimultaneously measuring heat release and mass loss rates
[PB83-222711] 01 p0085 N84-10555
Correlation of laboratory-scale fire test methods for seat blocking layer materials with large-scale test results
[AD-A131666] 03 p0328 N84-12138
Chemical reactions in turbulent mixing flows, revision
[AD-A133874] 05 p0647 N84-14258
Two-step sequential reactions for large activation energies-revisited
[AD-A141750] 19 p2988 N84-28934

HEAT OF DISSOCIATION
Survey and assessment of heat of reaction type chemical heat pumps
[DE84-010988] 21 p3401 N84-31576

HEAT OF FORMATION
Was the early Earth completely molten?
11 p1755 N84-21460

HEAT OF FUSION
Measurement of melt line penetration and heat flux during arc spot welding
[DE84-002013] 13 p1997 N84-22962
Thermal property measurement techniques and some results for CdTe and (Hg,Cd)Te alloys
[AD-A139375] 14 p2242 N84-24462
Low angle silicon sheet growth: A review of progress, problems and promise 18 p2938 N84-28631
Utilization of satellite cloud information to diagnose the energy state and transformations in extratropical cyclones 24 p3925 N84-34846

HEAT OF VAPORIZATION
Measurement of melt line penetration and heat flux during arc spot welding
[DE84-002013] 13 p1997 N84-22962
Dust particles in high speed flows: Calculations of small particle reentry hydrodynamics
[DE84-010988] 20 p3186 N84-30245

HEAT PIPES
Performance demonstration of a high-power space-reactor heat-pipe design
[DE83-012688] 01 p0145 N84-10952
Space reactor preliminary mechanical design
[DE83-012689] 01 p0145 N84-10953
Neutronic and thermal design considerations for heat-pipe reactors
[DE83-012690] 01 p0145 N84-10954
Initial evaluation of molybdenum-rhenium alloy for reactor heat pipes
[DE83-012687] 01 p0145 N84-10955
Heat pipes made of roll bond panels
[BMFT-FB-T-83-116] 02 p0242 N84-11588
An experimental evaluation of the thermal performance of a rotating heat pipe with internal axial fins
[AD-A132553] 04 p0533 N84-13504
An analysis of smooth and axially finned, rotating heat pipe condensers
[AD-A132141] 04 p0534 N84-13509
Thermal control system — removing waste heat from industrial process spacecraft
[NASA-CASE-GSC-12771-1] 05 p0678 N84-14461
Development of a contact heat exchanger for a constructable radiator system
[NASA-CR-171730] 08 p1155 N84-17523
High capacity heat pipe performance demonstration
[NASA-CR-171733] 08 p1157 N84-17531
Preliminary tests on the u-shaped heat pipes of TV-SAT/TDF-1 10 p1440 N84-19403
Design aspects of TV-SAT/TDF-1 heat pipes
10 p1440 N84-19404
Heat pipes for the L-SAT communications module radiators 10 p1440 N84-19405
A Variable Conductance Heat Pipe (VCHP) radiator system for communications payloads
10 p1440 N84-19406
Outline and evaluation of a spaceborne sodium heat pipe furnace with three compartments
10 p1440 N84-19407
Thermofluidynamics of heat pipes
10 p1443 N84-19423
Uniaxial model for gas-loaded variable conductance heat pipe performance: The effects of vapor flow, friction, and inertia 10 p1443 N84-19424
High-temperature CVD heat pipe development
[DE83-017893] 12 p1816 N84-21838
Cascade variable-conductance heat pipe (A0076)
15 p2274 N84-24651
Low-temperature heat pipe experiment package (HEPP) for LDEF (S1001) 15 p2274 N84-24652
Transverse flat-plate heat pipe experiment (S1005)
15 p2274 N84-24653
Preliminary experiments with an electro-osmotic heat pipe laboratory model
[AD-B081344] 15 p2332 N84-25004
Magnetohydrodynamic power generation, electromagnetic pumps, heat pipes, and thermionic convertors
[DE84-009195] 15 p2411 N84-25475
Heat transfer measurements of internally finned rotating heat pipes
[AD-A140647] 17 p2668 N84-27015
Uniaxial model for gas-loaded variable conductance heat pipe performance; the effects of vapor flow, friction and inertia
[NLR-MP-83058-U] 17 p2669 N84-27021
Selective coating heat pipe collector adaptation to solar energy plants
[BMFT-FB-T-84-054] 19 p3025 N84-29187
Remarks on thermal analyses of thin 4He films in superfluid heat pipe 20 p3169 N84-30121
An experimental study of helical guide-type rotating heat pipe 20 p3169 N84-30123
The heat pipe exchanger with controllable heat exchanging area 20 p3169 N84-30124
Experimental study of the naphtaline heat pipe
20 p3169 N84-30125
Research and development of long heat pipes and their applications — heating road surfaces on bridges
20 p3170 N84-30126
Study of latent heat storage system used heat pipes for cooling of underground cables
20 p3170 N84-30127
Heat pipe technology issues
[DE84-011384] 20 p3187 N84-30248
Some scoping experiments for a space reactor
[DE84-009101] 20 p3296 N84-30941
Power flattening techniques for radioisotopic thermoelectric generators
[AD-A142937] 21 p3391 N84-31520
Heat pipe technology development for high temperature space radiator applications
[DE84-012444] 21 p3402 N84-31581
Two-dimensional vapor flow analysis in heat pipes
[DE84-012581] 21 p3402 N84-31582
Heat pipe development status
[DE84-012580] 21 p3402 N84-31583
Multi-leg heat pipe evaporator
[NASA-CASE-MSC-20812-1] 22 p3592 N84-32748
Improved monogroove heat pipe design: Insulated liquid channel with bridging wick
[NASA-CASE-MSC-20497-1] 24 p3899 N84-34692

HEAT PUMPS
Open-cycle vapor compression heat pump
[PB83-228429] 01 p0059 N84-10384
Symposium on Heat Pumps per DIN 8900
[BLL-TRANS-T5843/BG-MRS1796-82]
01 p0076 N84-10500
Assessment of the BCL and ORL chemical heat pumps
[DE83-011450] 01 p0080 N84-10518
Positive displacement rotary compressor for vapor compression
[PB83-232744] 01 p0092 N84-10599
Vertical concentric-tube ground-coupled heat exchangers
[DE83-014003] 02 p0219 N84-11435
Development of a solar-driven free-piston heat pump
[DE83-015024] 02 p0220 N84-11440
Performance of add-on-type heat pump water heaters using two different test methods
[PB83-222703] 03 p0359 N84-12332
Ground coupled heat-pump-system experimental results
[DE83-014011] 03 p0373 N84-12427
Thermochemical energy systems research
[DE83-012132] 03 p0404 N84-12644
Reliability and maintainability study of select solar-energy-system components in the National Solar Data Network
[DE83-011974] 03 p0404 N84-12647
Models of simultaneous heat and moisture transfer in soils
[DE84-001580] 04 p0534 N84-13513
Oak Ridge heat-pump models. Part 1. A steady-state computer design model for air-to-air heat pumps
[DE84-001577] 04 p0535 N84-13519
Development of a residential gas-absorption heat pump
[DE83-017218] 04 p0536 N84-13526
Stirling-engine heat-actuated heat pump
[DE83-017137] 04 p0537 N84-13529
Performance test results of an absorption heat pump which is designed to utilize low-temperature 600C (1400F) industrial waste heat
[DE83-017194] 04 p0537 N84-13533
Parametric testing and evaluation of a free-piston Stirling engine/linear-compressor system
[DE83-017282] 04 p0545 N84-13590
Hybrid space heating/cooling system with Trombe wall, underground venting, and assisted heat pump
[DE84-000406] 04 p0559 N84-13686
Fluidized bed air-to-air heat pump evaporator evaluation
[AD-A133072] 05 p0681 N84-14479
Central heat pump units: Problems of heat output control
[BMFT-FB-T-83-159] 05 p0681 N84-14480
State-of-the-art survey of existing knowledge for the design of ground-source heat pumps
[DE84-002988] 07 p1003 N84-16504

Wind-powered heat pump experiment
[DE84-003141] 07 p1026 N84-16647
Heat pump units with electrically driven compressors for water heating
[BLL-OA-TRANS-3181-(6196.3)] 08 p1154 N84-17514
Measurement of heat pump processes induced by laser radiation
[NASA-CR-168324] 09 p1319 N84-18620
Available energy method for evaluating thermodynamic performance of heat pump systems
[DE84-005188] 10 p1494 N84-19766
Assessment of internal combustion engines as drivers for heat pumps
[DE84-005072] 10 p1502 N84-19821
Technical and economic feasibility of Stirling cycle industrial heat pumps
[DE84-005486] 11 p1653 N84-20793
Comparison of field performance of a high efficiency heat pump with and without a desuperheater water heater
[DE84-005816] 11 p1653 N84-20795
High-efficiency dual-stroke compressor for heat pumps
[DE84-005813] 11 p1665 N84-20865
Using the earth to heat and cool homes
[DE84-007102] 12 p1816 N84-21840
Technical and economic feasibility of horizontal, multiple shallow-well, and deep-well ground coupling for residential heat pump applications
[DE84-006244] 12 p1817 N84-21842
Overview of NASA Lewis Research Center free-piston Stirling engine activities
[NASA-TM-83649] 12 p1921 N84-22512
Heat/mass flow enhancement design for a metal hydride assembly, phase 2
[DE84-007182] 13 p1990 N84-22920
Gas-fired heat pump research and development: Review and assessment
[PB84-153907] 14 p2135 N84-23796
Ground-coupled heat pump demonstration
[PB84-156223] 14 p2135 N84-23797
Overview of DOE-sponsored heat pump research
[DE84-007561] 15 p2333 N84-25011
Theoretical analysis of a kinematic Stirling-cycle heat pump for space conditioning applications
[DE84-010240] 15 p2344 N84-25072
Heap pumps marketing problems and the role played by the financial incentives provided by the law 308/82
[CISE-2149] 16 p2487 N84-25950
ORNL research programs on refrigeration systems, ECUT materials and tribology
[DE84-007542] 19 p3032 N84-29232
Advanced electric heat pump dual-stroke compressor and system development
[DE84-007916] 20 p3185 N84-30239
Laboratory evaluation of the steady-state and part load performance of absorption type heating and cooling equipment
[PB84-182146] 21 p3376 N84-31426
Survey and assessment of heat of reaction type chemical heat pumps
[DE84-010988] 21 p3401 N84-31576
Performance test results of a lithium bromide-water absorption heat pump that uses low-temperature (60 deg C(140 deg F)) waste heat
[DE84-013129] 21 p3403 N84-31586
Comparative study of heat pump regulation systems. The problem of defrosting evaporators
[CETIM-100250] 21 p3403 N84-31589
High efficiency heat pump using ground heat source
[DE84-006385] 22 p3594 N84-32761
M.A.N. heat pumps in industry and communities, and their efficiency 23 p3747 N84-33755

HEAT RADIATORS
NT SPACECRAFT RADIATORS
Space Station Technology, 1983
[NASA-CP-2293] 09 p1268 N84-18277
Thermal control 09 p1269 N84-18289
Flexible radiator thermal vacuum test report
[NASA-CR-171764] 11 p1623 N84-20622
Flexible radiator system: Executive summary
[NASA-CR-171766] 11 p1623 N84-20624
Space station needs, attributes and architectural options study. Volume 7-4B: Data book, architecture, technology and programmatics, part B
[NASA-CR-173685] 18 p2804 N84-27800
Heat pipe technology development for high temperature space radiator applications
[DE84-012444] 21 p3402 N84-31581

HEAT REGULATION
U TEMPERATURE CONTROL

HEAT REJECTION DEVICES
U HEAT RADIATORS

HEAT RESISTANCE
U THERMAL RESISTANCE

HEAT RESISTANT ALLOYS
NT MOLYBDENUM ALLOYS
NT NIMONIC ALLOYS
NT NIOBIUM ALLOYS
NT REFRACTORY METAL ALLOYS
NT RENE 95
NT RHENIUM ALLOYS
NT TANTALUM ALLOYS
NT TUNGSTEN ALLOYS
NT UDIMET ALLOYS
NT WASPALOY
Fatigue crack growth and low cycle fatigue of two nickel base superalloys
[NASA-CR-174534] 01 p0042 N84-10267
Statistics of crack growth of a superalloy under sustained load
[AD-A130395] 01 p0095 N84-10616
Inelastic deformation of crystaline nonmetallic solids
[DE83-014594] 01 p0155 N84-11020
Deformation studies in workable superalloys
[AD-A131606] 02 p0194 N84-11260
Replacing critical and strategic refractory metal elements in nickel-base superalloys — NASA's COSAM program
[NASA-TM-83528] 04 p0498 N84-13264
Creep fatigue of low-cobalt superalloys: Waspaloy, PM U 700 and wrought U 700
[NASA-CR-168260] 04 p0498 N84-13265
Effects of cobalt in nickel-base superalloys
[NASA-CR-168308] 05 p0652 N84-14267
An investigation of substrate effects on type two hot corrosion of marine gas turbine materials
[AD-A132833] 05 p0655 N84-14303
Complexities of high temperature metal fatigue: Some steps toward understanding
[NASA-TM-83507] 05 p0691 N84-14541
Arc spray fabrication of metal matrix composite monotape — high temperature fiber-reinforced superalloy composites
[NASA-CASE-LEW-13828-1] 06 p0798 N84-15203
Evaluation of CO2 and CO dopants in hydrogen to reduce hydrogen permeation in the Stirling engine heater head tube alloy CG-27
[NASA-TM-83535] 06 p0805 N84-15246
Elevated temperature low cycle fatigue of nickel base superalloys in the conventionally cast, directionally solidified and single crystal forms
[AD-A133598] 06 p0806 N84-15253
Preliminary study of thermomechanical fatigue of polycrystalline MAR-M 200
[NASA-TP-2280] 08 p1130 N84-17350
Factors which influence directional coarsening of Gamma prime during creep in nickel-base superalloy single crystals
[NASA-TM-83595] 08 p1131 N84-17353
Influence of composition on the microstructure and mechanical properties of a nickel-base superalloy single crystal
[NASA-TM-83563] 08 p1131 N84-17354
Influence of cobalt, tantaum and tungsten on the high temperature mechanical properties of single crystal nickel-base superalloys
[NASA-TM-83479] 08 p1131 N84-17355
Analysis of thermoelectric properties of high-temperature complex alloys of nickel-base, iron-base and cobalt-base groups
[NASA-TP-2278] 09 p1281 N84-18370
The high temperature viscoplastic fatigue behavior of IN-100 using the Bodner-Partom flow law
[AD-A135867] 09 p1282 N84-18375
Synthesis and properties of elevated temperature P/M aluminum alloys
[AD-A135956] 09 p1283 N84-18379
A fundamental study of P/M processed elevated temperature aluminum alloys
[AD-A136154] 09 p1284 N84-18387
Influence of deformation behavior, oxydation, and temperature on the long time cyclic stress behavior of high temperature steels
[MPA-82-02] 09 p1334 N84-18710
Sustained load crack growth in Inconel 718 under non-isothermal conditions
[AD-A136925] 10 p1460 N84-19535
The development of wrought heat-resisting alloys for gas turbines
[CSIR-ME-1778] 11 p1632 N84-20669
Mechanism of corrosion of Ni base superalloys by molten Na2MoO4 at elevated temperatures
[NASA-TM-83580] 11 p1632 N84-20672
Literature survey on oxidations and fatigue lives at elevated temperatures
[NASA-CR-174639] 11 p1633 N84-20674
A study of the solidification parameters influencing structures and properties in MAR-M246(Hf)
[NASA-TM-82569] 11 p1633 N84-20675
The ductility of metal diffusion coatings on nickel alloys and their characterization
[BLL-RISLEY-TRANS-4883] 12 p1795 N84-21706
High-temperature oxidation of alpha nickel-silicon. 1: Reaction kinetics; thermogravimetry
[MRL-R-887] 12 p1796 N84-21717
Cyclic deformation and fatigue of monocrystalline Ni-base superalloys
[AD-A138052] 12 p1797 N84-21724
The future for titanium and superalloys — in aircraft engines
[PNR-90175] 13 p1961 N84-22742
The cyclic behaviour of a powder Ni-base superalloy — aircraft engines
[PNR-90182] 13 p1961 N84-22743
Application of rapidly solidified superalloys
[AD-A139350] 14 p2127 N84-23755
Some aspects of creep in nickel-base super alloys
[NPL-DMA(A)-72] 15 p2294 N84-24769
Isothermal calorimetric investigation of a reversible reaction in rapidly solidified Fe40Ni40B20
[DE84-006013] 15 p2298 N84-24791
Fabrication development for ODS-superalloy, air-cooled turbine blades
[NASA-CR-174650] 16 p2450 N84-25711
Effects of alloy composition on cyclic flame hot-corrosion attack of cast nickel-base superalloys at 900 deg C
[NASA-TP-2338] 17 p2622 N84-26783
P/M superalloys: A troubled adolescent?
[NASA-TM-83623] 17 p2622 N84-26785
Study of the influence of metallurgical factors on fatigue and fracture of aerospace structural materials
[AD-A140659] 17 p2623 N84-26789
Hot corrosion in aircraft engines
[DFVLR-MITT-84-04] 18 p2796 N84-27742
Coating with overlay metallic-cermet alloy systems
[NASA-CASE-LEW-13639-2] 18 p2813 N84-27855
Experimental and theoretical studies of creep crack growth
[AD-A141193] 18 p2814 N84-27862
Chemical mechanisms and reaction rates for the initiation of hot corrosion of IN-738
[NASA-TP-2319] 19 p2992 N84-28958
Oxidation and corrosion resistance of candidate Stirling engine heater-head-tube alloys
[NASA-TM-83609] 19 p2992 N84-28962
Failure by creep cracking and creep fatigue interaction in nickel base superalloys
[AD-A141112] 19 p2993 N84-28967
Interactions between erosion and corrosion of metals and alloys at elevated temperatures
[AD-A141410] 19 p2993 N84-28968
Cold working and annealing effects on the creep and rupture resistance of the oxide-dispersion-strengthened alloy MA754
[AD-A141438] 19 p2993 N84-28969
Effect of refractory elements on the coherency strain and flow stress on nickel-base superalloys
[AD-A142220] 19 p2994 N84-28975
High-temperature alloys: Theory and design
[DE84-010428] 20 p3154 N84-30029
Ductile aluminide alloys for high temperature applications
[DE84-011037] 20 p3156 N84-30036
Influences of directionally solidified techniques and hafnium content on a nickel base high temperature alloy 20 p3159 N84-30064
Characteristics of initial period fatigue crack propagation of metals and its affecting factors 20 p3160 N84-30071
Study of high performance alloy electroforming — nickel manganese and nickel cobalt manganese alloys
[NASA-CR-173865] 21 p3386 N84-31350
Nonlinear analysis for high-temperature composites: Turbine blades/vanes 21 p3421 N84-31699
Refractory alloy technology for space nuclear power applications
[DE84-001745] 21 p3497 N84-32166
A procedure for determining the tempo at which alloys solidify
[BLL-M-35842-(5828.4)] 22 p3553 N84-32497
Response of Inconel 617 superalloy to combined ground-based and STS reentry exposure
[NASA-TM-86293] 22 p3554 N84-32505
Swedish research in high-temperature ceramics, superalloys 22 p3651 N84-33142
Understanding the roles of the strategic element cobalt in nickel base superalloys 23 p3703 N84-33471
Oxide dispersion strengthened alloys 23 p3703 N84-33472
Potential of metal-matrix composites as superalloy substitutes 23 p3703 N84-33474
Practical implications of the use of aluminide coatings for the corrosion protection of superalloys in gas turbines 23 p3703 N84-33476

The Navy program to develop replacements for critical and strategic materials 23 p3704 N84-33478
Vacuum recycling effect on minor elements in superalloys 23 p3704 N84-33481
Problems presented to engine builders by the recycling of metallic materials — titanium and nickel alloys for aircraft engine parts 23 p3704 N84-33482
Coating developments to restrict strategic materials usage 23 p3704 N84-33483
Trace elements in superalloys and the implications for recycling 23 p3705 N84-33484
The effect of recycling on cast structures and the internal character of IN100 alloy: A laboratory study 23 p3705 N84-33485
Using recycled superalloys in precision casting 23 p3705 N84-33486
Trace elements and residual elements in superalloys 23 p3705 N84-33487
USSR report: Materials science and metallurgy [JPRS-UMS-84-006] 23 p3705 N84-33489
Effect of stress concentration on fatigue resistance of heat-resistant nickel alloys 23 p3707 N84-33503
Kinetic time-temperature equation for creep of heat-resistant alloys taking aging into account 23 p3708 N84-33504
Influence of cobalt, tantalum and tungsten on the high temperature mechanical properties of single crystal nickel-base superalloys 23 p3716 N84-33558
Low cycle fatigue behavior of conventionally cast MAR-M 200 AT 1000 deg C [NASA-TM-83769] 23 p3717 N84-33564
Ductile aluminide alloys for high temperature applications [DE84-014317] 23 p3719 N84-33575
Carbide phases in high-temperature nickel-hafnium alloys 24 p3871 N84-34532
Influence of boundary volume structure on grain boundary relaxation of cast heat resistant nickel alloys 24 p3877 N84-34569
Influence of nitrogen-hydrogen-containing media on heat resistance properties of nickel-based alloys 24 p3877 N84-34570
Changes in solidified microstructures 24 p3882 N84-34595
Characterization of macrosegregation in ESR IN-718 24 p3882 N84-34596
Evaluation of candidate Stirling engine heater tube alloys after 3500 hours exposure to high pressure doped hydrogen or helium [NASA-TM-83782] 24 p3883 N84-34603

HEAT SHIELDING
NT REENTRY SHIELDING
NT REUSABLE HEAT SHIELDING
Radiative properties of advanced spacecraft heat shield materials [NASA-CR-3740] 02 p0193 N84-11258
Intumescent reaction mechanisms: An analytic model [AD-A132586] 04 p0491 N84-13225
Evaluation of a non-catalytic coating for metallic TPS [NASA-TM-85745] 07 p0974 N84-16312
Protection against heat radiation in the steel industry — protective visor [FOA-C-20500-E4] 08 p1206 N84-17864
Motorized thermal control shade — for spacecraft 10 p1444 N84-19436
Degradation of thermal shield materials in the space radiation environment 10 p1446 N84-19448
Starprobe thermal shield evolution 10 p1448 N84-19462
Free jet feasibility study of a thermal acoustic shield concept for AST/VCE application: Single stream nozzles [NASA-CR-3758] 19 p3096 N84-29661
Electroless-plating technique for fabricating thin-wall convective heat-transfer models [NASA-TP-2349] 21 p3399 N84-31561
Effect of alloy chemistry and exposure conditions on the oxidation of titanium [NASA-TM-86295] 22 p3555 N84-32507

HEAT SINKS
A laboratory comparison of portable cooling systems for workers exposed to two levels of heat stress [AD-A131848] 03 p0372 N84-12423
Design and development of a high-concentration and high-efficiency photovoltaic concentrator using a curved Fresnel lens [DE84-000967] 04 p0558 N84-13679
Simplification of thermal design by the use of effective sink temperature method 10 p1448 N84-19461
Atmospheric Science Workshop on the Meteorology of the Antarctic Region at INPE [INPE-3202-RPE/460] 23 p3800 N84-34093

HEAT SOURCES
NT GEOTHERMAL RESOURCES
NT THERMAL RESOURCES
Buckling flow and transition to turbulence in axisymmetric plumes 05 p0662 N84-14486
Dynamic thermography of thermite chemical heat sources [DE84-002637] 07 p0971 N84-16291
Tropical heat sources and their associated large-scale atmospheric circulation [INPE-2727-TDL/133] 07 p1032 N84-16697
Space nuclear safety program, May 1983 [DE84-002324] 07 p1074 N84-16979
Space nuclear safety program, June 1983 [DE84-003555] 07 p1074 N84-16980
Ultrasonic inspection of MC2893 strength member assembly weld [DE84-007084] 12 p1824 N84-21892
Diagnosis of the GLAS climate model's stationary planetary waves using a linearized steady state model 12 p1856 N84-22095
Space nuclear safety program [DE84-006693] 12 p1904 N84-22399
Milliwatt generator heat source [DE84-006207] 15 p2407 N84-25447
The stability of atmospheric fields induced by localized topography and heat sources [AD-A141357] 19 p3058 N84-29400
APL/JHU free flight tests of the general purpose heat source module. Testing: 5-7 March 1984 [DE84-011065] 20 p3299 N84-30948
Rectangular heat source on a semi-infinite solid: An analysis of a thin film heat flux gage [DE84-012234] 22 p3599 N84-32796
Transient convection over the Amazon/Bolivia region and the dynamics of drought over northeast Brazil [INPE-3226-PRE/577] 24 p3922 N84-34823

HEAT STORAGE
Electrothermal production of magnesium [CSIR-TRANS-1679] 01 p0039 N84-10250
Development of enhanced heat transfer/transport/storage slurries for thermal-system improvement [DE83-009688] 01 p0081 N84-10525
Oil/salt hydrate direct-contact heat-exchange experiments [DE83-009396] 01 p0082 N84-10533
Thermal energy storage evaluation and life testing [NASA-CR-174464] 01 p0102 N84-10660
Salt thermocline thermal storage [DE83-011962] 02 p0218 N84-11431
High-temperature molten salt thermal energy storage systems for solar applications [NASA-CR-167916] 06 p0873 N84-15679
USAF advanced terrestrial energy study. Volume 3: Parameter survey [AD-A133501] 06 p0874 N84-15685
Heat-storage materials for IRCM [AD-A133110] 06 p0917 N84-15961
High-temperature direct absorption research [DE84-000019] 07 p1003 N84-16505
Sodium heat transfer system modeling [DE84-002051] 07 p1004 N84-16509
Research opportunities in salt hydrates for thermal energy storage [DE84-002977] 07 p1026 N84-16650
Free cooling: A total HVAC design concept 11 p1640 N84-20723
Analysis of structural storage air conditioning systems 11 p1640 N84-20725
WECS - load controlled pitch - variable load conversion to heat [DE84-005328] 11 p1674 N84-20922
Solar pond performance estimation, engineering design, and construction experience [DE84-003992] 11 p1674 N84-20924
Direct-contact high-temperature thermal energy storage heat exchanger [DE84-000012] 12 p1816 N84-21839
Relationship of regional water quality to aquifer thermal energy storage [DE84-006649] 14 p2169 N84-23992
Development of media for dynamic latent heat storage for the low temperature range. Part 1: Thermal analysis of selected salt hydrate systems [DFVLR-FB-84-03-PT-1] 15 p2362 N84-25170
Operational demonstration of a field of high performance flat plate collectors with isothermal heat transport [BMFT-FB-T-83-2] 15 p2362 N84-25171
Technical use of solar energy: Conversion from solar to thermal energy, solar cooling and thermal energy storage [BMFT-FB-T-83-300] 15 p2362 N84-25173
Solar molten salt electric experiment [DE84-006340] 15 p2363 N84-25178
Thermal energy storage in molten-salt systems for solar central receivers: The federal role in research and development [DE84-007433] 15 p2364 N84-25185
Solid state phase change materials for thermal energy storage in passive solar heated buildings 16 p2518 N84-26163
Sensible heat storage in water [PP-132] 18 p2868 N84-28206
Investigation of the crystallization kinetics of an incongruent melting salt hydrate under metastable conditions [DE84-008666] 19 p3112 N84-29771
Study of latent heat storage system used heat pipes for cooling of underground cables 20 p3170 N84-30127
Stable density stratification solar pond [NASA-CASE-NPO-15419-2] 22 p3616 N84-32910
Seasonal thermal energy storage [DE84-013854] 23 p3791 N84-34042
Saltless solar pond [NASA-CASE-NPO-15808-1] 24 p3916 N84-34792

HEAT TESTS
U HIGH TEMPERATURE TESTS

HEAT TOLERANCE
Insulin and cortisol improve heat tolerance in isolated perfused rat liver [AD-A133382] 07 p1042 N84-16758
Selected factors affecting aircrew performance during sustained operations 11 p1698 N84-21074
Effects of heat acclimation on atropine impaired thermoregulation [AD-A139292] 15 p2380 N84-25282
The military aircrew work environment [FOA-A-59005-H1-H2] 18 p2915 N84-28490
Physiological-hygienic criteria of medical selection of military servicement for work in a hot climate 23 p3807 N84-34135

HEAT TRANSFER
NT AERODYNAMIC HEAT TRANSFER
NT CONDUCTIVE HEAT TRANSFER
NT CONVECTIVE HEAT TRANSFER
NT LAMINAR HEAT TRANSFER
NT RADIATIVE HEAT TRANSFER
NT TURBULENT HEAT TRANSFER
An experimental study of heat and momentum transfer in pipe flow of viscoelastic fluids 01 p0076 N84-10497
A simple mathematical model for heat transfer and its application for continuous type reheating furnaces 01 p0077 N84-10503
Development of enhanced heat transfer/transport/storage slurries for thermal-system improvement [DE83-009688] 01 p0081 N84-10525
Oil/salt hydrate direct-contact heat-exchange experiments [DE83-009396] 01 p0082 N84-10533
Microbial fouling and its effect on power generation [AD-A131084] 01 p0112 N84-10726
Computer modeling of the vapor compression cycle with constant flow area expansion device [PB83-226639] 01 p0156 N84-11029
Computer modeling of the vapor compression cycle with constant flow area expansion device: Appendix J [PB83-226647] 01 p0156 N84-11030
Combustion performance and heat transfer characterization of LOX/hydrocarbon type propellants, volume 2 [NASA-CR-171714] 02 p0202 N84-11318
Combustion performance and heat transfer characterization of LOX/hydrocarbon type propellants [NASA-CR-171712] 02 p0205 N84-11335
An analysis of the annual temperature wave propagating through an alluvial soil [DEL83-014883] 02 p0219 N84-11434
Vertical concentric-tube ground-coupled heat exchangers [DE83-014003] 02 p0219 N84-11435
Simultaneous heat and mass transfer in absorption of gases in turbulent liquid films [DE83-016394] 02 p0220 N84-11445
Variation of the size of nitrogen droplets in a flow of gaseous nitrogen [DFVLR-FB-83-13] 02 p0221 N84-11450
Local measurements of turbulent boundary layer heat transfer on a concave surface using liquid crystals 02 p0221 N84-11451
A comparison of baroclinic eddy heat-transport parameterizations to a simplified general circulation model 02 p0252 N84-11650
The 21st Symposium on Engineering Aspects of Magnetohydrodynamics [DE83-014481] 02 p0296 N84-11943
Thermal analysis of a helium-cooled tube-bank blanket module for a tandem-mirror fusion reactor [DE83-015840] 02 p0297 N84-11945
Deposit formation and heat transfer in hydrocarbon rocket fuels [NASA-CR-168277] 03 p0343 N84-12225

Solid-oxide fuel-cell performance
[DE83-017926] 03 p0368 N84-12396
Use of superposition in calculating cooling requirements for circuit cards containing arrays of electronic components
[DE83-016091] 03 p0373 N84-12428
Convection in horizontal porous media with different end temperatures 03 p0374 N84-12438
Numerical calculations of turbulent recirculating heat transfer beyond two-dimensional back-steps and sudden pipe expansions 03 p0374 N84-12439
Transient heat transfer in superfluid helium, part 2
[DE83-015767] 03 p0453 N84-12984
Superconductor stability, 1983: A review
[DE83-015506] 03 p0454 N84-12990
Flame radiation and liner heat transfer in a tubular-can combustor
[NASA-TM-83538] 04 p0485 N84-13188
Temperature rise of handles and knobs
[BLL-OA-TRANS-3047-(6196.3)] 04 p0533 N84-13502
An analysis of smooth and axially finned, rotating heat pipe condensers
[AD-A132141] 04 p0534 N84-13509
Models of simultaneous heat and moisture transfer in soils
[DE84-001580] 04 p0534 N84-13513
Vapor-phase heat-transport system
[DE84-001341] 04 p0535 N84-13516
Oak Ridge heat-pump models. Part 1. A steady-state computer design model for air-to-air heat pumps
[DE84-001577] 04 p0535 N84-13519
Heat transfer to subcooled HE 1
[DE83-017767] 04 p0535 N84-13520
Experimental study of three-dimensional natural convection at high Rayleigh number
[DE83-011982] 04 p0537 N84-13530
Surface heat flux derived from sodar amplitude and frequency data: A comparison
[DE83-017930] 04 p0564 N84-13717
The effect of condensate inundation on steam condensation heat transfer to wire-wrapped tubing
[AD-A132175] 04 p0615 N84-14060
A review of NASA combustor and turbine heat transfer research
[NASA-TM-83541] 05 p0631 N84-14146
Heat and mass transfer during the growth and dissociation of gas hydrates in porous media
[PB83-255414] 05 p0682 N84-14482
Heat transfer, pressure drop, and fluid flow in interrupted wall passages 05 p0682 N84-14487
An application of gap regenerator/expander precooled by two stage G-M refrigerator 06 p0819 N84-15337
Fully coupled calculation of fluid flows with limited use of computer storage
[DE84-002218] 06 p0844 N84-15508
Numerical solution to the steady state equation of transfer in azimuthally symmetric geometries — heat transfer and molecular flow
[DE84-001781] 06 p0845 N84-15509
An experimental study of steady and pulsating heat transfer in curved tubes 06 p0845 N84-15515
Acoustical modes of arbitrary volumes using NASTRAN transient heat transfer RF9 06 p0859 N84-15597
Direct steam generation in line-focus solar collectors
[DE83-006030] 06 p0872 N84-15678
Heat transfer retardation at elevated temperatures. Phase 1: Analysis of heat transfer retardation configurations and materials
[AD-A133509] 06 p0926 N84-16017
Effects of ventilation and panel properties on temperature rise from aircraft fires
[DOT/FAA/CT-TN83/63] 07 p0949 N84-16157
Finite element analysis of incompressible turbulent backstep flow with heat transfer
[DE84-003101] 07 p1003 N84-16502
High-temperature direct absorption research
[DE84-000019] 07 p1003 N84-16505
Sodium heat transfer system modeling
[DE84-002051] 07 p1004 N84-16509
Laser effects and vulnerability program. Liquid propellant characterization
[AD-A134584] 07 p1010 N84-16550
Extensions and applications of a second-order landsurface parameterization
[NASA-CR-175144] 07 p1023 N84-16636
Transport processes in the central equatorial Atlantic and their influence on the heat content
[REPT-113] 07 p1041 N84-16752
Thermal energy management process experiment 08 p1110 N84-17222
On the propagation laws of combustion waves in solids (pyrotechnic reactions)
[BLL-TRANS-1098-(7291.7965)] 08 p1123 N84-17300
Considerations on the external combustion system of the Stirling hot gas engine
[NASA-TM-77026] 08 p1123 N84-17302
Thermal-energy transport from arc to rails in an arc-driven rail gun
[AD-A134991] 08 p1152 N84-17499
Thermocapillary flows and their stability: Effects of surface layers and combination
[NASA-CR-170962] 08 p1155 N84-17522
Development of a contact heat exchanger for a constructable radiator system
[NASA-CR-171730] 08 p1155 N84-17523
Acquisition systems for heat transfer measurement
[DE84-003779] 08 p1160 N84-17551
Development of a thermal and structural model for a NASTRAN finite-element analysis of a hypersonic wing test structure
[NASA-CR-170413] 08 p1170 N84-17620
Ocean research for understanding climatic variations: Priorities and goals for the 1980's
[PB84-105816] 08 p1192 N84-17768
Ultra-high-field superconducting magnets
[DE84-003913] 08 p1226 N84-18012
Instrumentation techniques for aerodynamic heating measurement in NAL hypersonic gun tunnel
[NAL-TR-780] 09 p1258 N84-18213
Design and evaluation of a pulsating-flow wind tunnel
[PB84-116086] 09 p1260 N84-18223
Heat transfer measurements in cold wind tunnels
[AD-A135740] 09 p1315 N84-18591
Data documentation for the bare soil experiment at the University of Arkansas, June - August 1980
[NASA-CR-173325] 09 p1336 N84-18725
On the stability of an infinite swept attachment line boundary layer
[NASA-CR-172300] 10 p1420 N84-19285
Effect of electromagnetic stirring on weld pools
[AD-A136718] 10 p1460 N84-19532
Heat transfer and thermal stability of alternative aircraft fuels, volume 1
[AD-A137404] 10 p1469 N84-19597
Problems of building turbogenerators with windings made of superconductors and pure metals
[AD-A137198] 10 p1485 N84-19710
Variational principles in thermoplasticity. Part 1: Heat transfer and plasticity
[RUB-IFM-MITT-33-PT-1] 10 p1490 N84-19740
Experimental and theoretical deposition rates from salt-seeded combustion gases of a Mach 0.3 burner rig
[NASA-TP-2225] 10 p1490 N84-19741
Computation of discrete slanted hole film cooling flow using the Navier-Stokes equations
[AD-A137022] 10 p1493 N84-19763
Heat transfer in oscillatory flow
[DE84-005193] 10 p1494 N84-19766
Heat exchange during upper and lower body exercise
[AD-A136015] 10 p1548 N84-20146
Application of He-II technology to the production of ultrahigh-field superconducting magnets
[DE84-004853] 10 p1575 N84-20319
Liner environment effects study 11 p1613 N84-20556
Evaluation of propellant tank insulation concepts for low-thrust chemical propulsion systems
[NASA-CR-168320] 11 p1625 N84-20634
Late developments in the field of heat recovery 11 p1640 N84-20727
Laminar condensation heat and mass transfer to a drop moving at intermediate or high Reynolds number 11 p1651 N84-20777
Numerical modeling of parametric uncertainties in flow through porous media: Development and initial testing of PORSTAT
[DE84-006682] 11 p1654 N84-20798
Numerical study of heat transfer in turbulent shear flow
[DE84-005106] 11 p1655 N84-20802
High-efficiency dual-stroke compressor for heat pumps
[DE84-005813] 11 p1665 N84-20865
TOPAZ: A computer code for modeling heat transfer and fluid flow in arbitrary networks of pipes, flow branches, and vessels
[DE84-006275] 11 p1709 N84-21142
Vaporization of synthetic fuels
[DE84-006556] 12 p1803 N84-21755
Review and status of heat-transfer technology for internal passages of air-cooled turbine blades
[NASA-TP-2232] 12 p1814 N84-21828
Effect of a rotor wake on heat transfer from a circular cylinder
[NASA-TM-83613] 12 p1815 N84-21832
A 650 mm long liquid hydrogen target for use in a high intensity electron beam
[DE84-007086] 12 p1902 N84-22389
Thermal contacts between metal and glass for use at cryogenic temperatures
[NASA-TM-85856] 12 p1907 N84-22423
Tip cap for a rotor blade
[NASA-CASE-LEW-13654-1] 13 p1931 N84-22560
Effect of rotation on thermal state of runner blade through effect on heat transfer on coolant side 13 p1970 N84-22787
Hybrid perturbation/Bubnov-Galerkin technique for nonlinear thermal analysis
[NASA-TP-2145] 13 p1988 N84-22907
Heat/mass flow enhancement design for a metal hydride assembly, phase 2
[DE84-007182] 13 p1990 N84-22920
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA-CASE-NPO-15494-2] 13 p1993 N84-22935
Heat pipes to reduce engine exhaust emissions
[NASA-CASE-LEW-12590-1] 13 p1997 N84-22958
Measurement of melt line penetration and heat flux during arc spot welding
[DE84-002013] 13 p1997 N84-22962
Investigation of the effects of pressure gradient, temperature and wall temperature ratio on the stagnation point heat transfer for circular cylinders and gas turbine vanes
[NASA-CR-174667] 14 p2109 N84-23649
Heat transfer effects during cold dense gas dispersion
[PB84-162999] 14 p2177 N84-24043
Current velocity profiles in the Straits of Florida from the Pegagus current profiler: Subtropical Atlantic Climate Study 1982
[PB84-154335] 14 p2183 N84-24084
The effects of fuel composition upon heat transfer in gas turbine combustors 15 p2290 N84-24740
Advanced combustor liner cooling concepts 15 p2292 N84-24756
Abstracts of the 20th Annual Meeting: Society of Engineering Science, Incorporated
[AD-A138155] 15 p2306 N84-24833
Simulation of heat transfer and fluid flow in the solidification of alloys 15 p2306 N84-24836
Convective heat transfer in porous media 15 p2317 N84-24903
Evaluation of gas-cooled pressurized phosphoric acid fuel cells for electric utility power generation
[NASA-CR-168298] 15 p2362 N84-25169
Thermomagnetic generator
[DE84-007885] 15 p2365 N84-25189
Fundamentals of hypersonics: Aerodynamics and heat transfer 16 p2441 N84-25660
The measurement of heat transfer and temperature distributions in hypersonic testing 16 p2441 N84-25662
Effects of unsteady free stream velocity and free stream turbulence on stagnation point heat transfer
[NASA-CR-3804] 16 p2486 N84-25943
A review of the basic concepts of dense gas dispersion with special regard to modelling of heat transfer
[QUEL-1512/84] 16 p2487 N84-25952
The importance of dynamically-adaptive grids in the numerical solution of partial differential equations 16 p2492 N84-25984
Parameter estimation and infiltration tests at the repeat facility 16 p2514 N84-26136
Advanced optical and thermal technologies for aperture control 16 p2517 N84-26156
Vapor-phase heat-transport system 16 p2518 N84-26161
Effect of nonhomogeneity on nonlinear stabilization of acoustic vibrations in heat emitting medium within bounded volume 17 p2646 N84-26926
A comparison of the tube-side performance of enhanced heat transfer tubing for Naval condensers
[AD-A126938] 17 p2667 N84-27006
Studies of heat transfer in complex internal flows
[AD-A140804] 17 p2668 N84-27014
Heat transfer measurements of internally finned rotating heat pipes
[AD-A140847] 17 p2668 N84-27015
Asymptotic form of solution of problem of seasonal evolution of thermal regime in ocean 17 p2699 N84-27194
Penn State Get Away Special 18 p2799 N84-27759
Thermal response of Space Shuttle wing during reentry heating
[NASA-TM-85907] 18 p2802 N84-27785
A survey of gas-side fouling measuring devices
[NASA-CR-173734] 18 p2836 N84-28003
An improved version of the k-W model of turbulence
[CFD/83/1] 18 p2837 N84-28011
Prognostic relationships for surface temperature anomalies in northern part of Pacific Ocean 18 p2858 N84-28148
Advanced solar receivers 18 p2872 N84-28232

Silicon foils growth by interface-controlled crystallization 18 p2937 N84-28628
Weight characteristics of future spacecraft thermal management systems
[AD-A141403] 19 p2962 N84-28895
Methane heat transfer investigation
[NASA-CR-171051] 19 p3001 N84-29018
Principles and prospects for micro heat pipes
[DE84-006035] 19 p3020 N84-29149
Turbulence and surface heat transfer near the stagnation point of a circular cylinder in turbulent flow
[NASA-TM-83732] 19 p3021 N84-29157
Procedures for acceptance testing of solar energy systems
[AD-A141639] 19 p3051 N84-29359
Heat transfer and oil flow studies on a single-stage-to-orbit control-configured winged entry vehicle
[NASA-TM-85833] 20 p3133 N84-29897
High pressure LOX/natural gas staged combustion technology 20 p3138 N84-29927
Generalized roughness effects on turbulent boundary layer heat transfer. A discrete element predictive approach for turbulent flow over rough surfaces
[AD-A141943] 20 p3183 N84-30227
Open cycle lithium chloride cooling system
[DE84-005831] 20 p3184 N84-30234
Thermal laminarization of a stratified pipe flow
[DE84-006407] 20 p3185 N84-30236
TOPAZ: A finite element heat conduction code for analyzing 2-D solids
[DE84-010676] 20 p3187 N84-30247
Nonlocal heat transport by non-Maxwellian electrons
[DE84-012391] 20 p3306 N84-31000
Electroless-plating technique for fabricating thin-wall convective heat-transfer models
[NASA-TP-2349] 21 p3399 N84-31561
Pressure effects on wall heat transfer during flame quenching
[DE84-012265] 21 p3401 N84-31575
Thermal oscillations downstream of an elbow in stratified pipe flow
[DE84-006550] 21 p3401 N84-31579
Performance test results of a lithium bromide-water absorption heat pump that uses low-temperature (60 deg C(140 deg F)) waste heat
[DE84-013129] 21 p3403 N84-31586
Noncontradictory method of calculating radiation transfer, and problem of shock wave structure 21 p3481 N84-32060
Engineering basis for selection of positron source material
[DE84-011772] 21 p3494 N84-32143
A study of heat release rate distribution in a gas turbine combustor by acoustic measurements 22 p3536 N84-32385
A study of leeside flow field heat transfer on Shuttle Orbiter configuration
[NASA-CR-172362] 22 p3540 N84-32410
Columbia: The first 5 flights entry heating data series. Volume 5: The side fuselage and payload bay door
[NASA-CR-171732] 22 p3541 N84-32416
GCKP84-general chemical kinetics code for gas-phase flow and batch processes including heat transfer effects
[NASA-TP-2320] 22 p3546 N84-32445
High temperature metallic recuperator
[PB84-207869] 22 p3564 N84-32575
The development of a high-capacity instrument module heat transport system, appendixes
[NASA-CR-175260] 22 p3592 N84-32750
Mass transfer from a circular cylinder: Effects of flow unsteadiness and slight nonuniformities
[NASA-CR-174759] 22 p3593 N84-32751
Heat transfer with phase change in plate-fin heat exchangers
[DE84-006405] 22 p3596 N84-32771
Measurement of skin friction in unsteady boundary layers using a flush-mounted hot-film gage
[PB84-197995] 22 p3596 N84-32773
Low heat loss laser combustion chamber
[AD-D011107] 22 p3600 N84-32799
Heat transfer, fluid flow and element vaporization in laser welding
[DE84-011783] 22 p3605 N84-32839
Wind loading on solar concentrators: Some general considerations
[NASA-CR-173896] 22 p3616 N84-32915
Dynamics of heat, mass and momentum transfer in an inductively coupled plasma
[DE84-013499] 22 p3660 N84-33200
Unsteady heat transfer during laminar flame quenching
[DE84-006301] 23 p3715 N84-33550
Cooling of high power generators and motors for electric propulsion
[AD-A144049] 23 p3742 N84-33720
Unsteady heat transfer during the interaction of a laminar flame with a cold wall 23 p3745 N84-33739
Film cooling on a convex wall: Heat transfer and hydrodynamic measurements for full and partial coverage 23 p3745 N84-33741
Effect of Weissenberg number on turbulent heat transfer and friction factor of viscoelastic fluids 23 p3745 N84-33743
Heat transfer from a circular cylinder due to a slot jet impingement 23 p3746 N84-33747
Dynamics of heat, mass and momentum transfer in an inductively coupled plasma
[DE84-014121] 23 p3828 N84-34282
Heat transfer characteristics of regenerator matrix (case of packed wire gauzes)
[NASA-TM-77448] 24 p3899 N84-34693
The application of satellite data to study the effects of latent heat release on cyclones 24 p3925 N84-34841

HEAT TRANSFER COEFFICIENTS
Effect of periodic, tapered enlargements and contractions on turbulent heat transfer and fluid flow in a circular duct 02 p0217 N84-11422
Turbulent tube-flow heat transfer coefficients in the presence of flow imbalance in the tubes of a parallel array 03 p0374 N84-12437
An experimental evaluation of the thermal performance of a rotating heat pipe with internal axial fins
[AD-A132553] 04 p0533 N84-13504
Condensation heat transfer of steam on a single horizontal tube
[AD-A132245] 04 p0533 N84-13508
Heat transfer distributions around nominal ice accretion shapes formed on a cylinder in the NASA Lewis icing research tunnel
[NASA-TM-83557] 05 p0679 N84-14463
Measurement of local connective heat transfer coefficients of four ice accretion shapes
[NASA-CR-174680] 16 p2439 N84-25646
Heat Transfer Coefficient in Containments (HTCC): A heat transfer model for gas-vapor mixtures
[BMI-1983-022] 16 p2485 N84-25939
Studies of heat transfer in complex internal flows
[AD-A140804] 17 p2668 N84-27014
Determining the coefficient of heat transfer during the filtration of a heat-carrying agent through a coil
[BLL-M-35601-(5828.4)] 19 p3020 N84-29146
Preliminary study of a radiantly heated fluidized bed for the production of high purity silicon
[NASA-CR-173758] 19 p3050 N84-29352
An experimental study of helical guide-type rotating heat pipe 20 p3169 N84-30123
Experimental study of the naphtaline heat pipe 20 p3169 N84-30125
Heat transfer characteristics of regenerator matrix (case of packed wire gauzes)
[NASA-TM-77448] 24 p3899 N84-34693

HEAT TRANSMISSION
NT AERODYNAMIC HEAT TRANSFER
NT CONDUCTIVE HEAT TRANSFER
NT CONVECTIVE HEAT TRANSFER
NT HEAT TRANSFER
NT LAMINAR HEAT TRANSFER
NT RADIATIVE HEAT TRANSFER
NT TURBULENT HEAT TRANSFER
Transient heat flow across uni-directional fibers in composites
[AD-A131052] 01 p0032 N84-10199
Practical computation of multidimensional thermal flows in a gas centrifuge
[DE83-005697] 03 p0372 N84-12426
Electrostatic waves and anomalous transport in the solar wind 03 p0470 N84-13095
Apparent thermal conductivity measurements by an unguarded technique
[DE84-001964] 05 p0685 N84-14503
Theoretical and empirical terrestrial heat flow studies 06 p0875 N84-15696
Line-source E-beam crystallization of silicon-on-insulator films
[DE84-003218] 07 p0999 N84-16478
ATF-1 torsatron studies
[DE84-003314] 09 p1392 N84-19089
Flat plate heat pipe collectors made by roll bonding
[BMFT-FB-T-83-202] 10 p1495 N84-19778
Analysis of structural storage air conditioning systems 11 p1640 N84-20725
Techniques of flash radiometry
[AD-A138412] 12 p1908 N84-22427
Modeling Io volcanism: Maximum volcanic temperatures, depths of melting and magma composition 13 p2073 N84-23436
Analysis and calculation of macrosegregation in a casting ingot, exhibits C and E
[NASA-CR-171030] 14 p2127 N84-23752
Geophysical investigations of a geothermal anomaly at Wadi Ghadir, eastern Egypt
[NASA-CR-173527] 14 p2175 N84-24030
Heat flow, fluid flow and solidification phenomena in weld pools 15 p2306 N84-24835
Analysis of permafrost depths on Mars 15 p2426 N84-25569
Engineering method of calculating the temperature field of solid and hollow cylinders
[BLL-M-35561-(5828.4)] 17 p2665 N84-26995
On Io, all that flickers is not cold
[NASA-CR-173447] 17 p2777 N84-27631
Photometric studies of heat flow at the photosphere 17 p2779 N84-27641
Porosity and environment 24 p3882 N84-34593

HEAT TREATMENT
NT ANNEALING
NT LASER ANNEALING
NT NITRIDING
NT PULSE HEATING
NT STRESS RELIEVING
NT TEMPERING
Phase transformations and coercive force of alloys based on the compound SmCo5
[BLL-M-35117-(5828.4)] 01 p0040 N84-10255
Laser surface hardened patterns for increased ballistic protection
[AD-A130385] 01 p0043 N84-10277
Changes in acoustic emission peaks in precipitation strenghtened alloys with heat tretment
[DE83-013611] 01 p0045 N84-10289
Continuous annealing of a Fe/0.1C/0.45Si/0.1Mo dual-phase steel
[DE83-015984] 01 p0047 N84-10300
Research on microstructurally developed toughening mechanisms in ceramics
[AD-A130394] 01 p0049 N84-10316
Metallurgical characterization of the fracture of several high strength aluminum alloys
[NASA-TP-1086] 02 p0189 N84-11230
Hydrogen embrittlement of a 12 Cr-1 Mo steel
[DE83-016781] 02 p0195 N84-11270
Wide flanged beams with improved properties
[BMFT-FB-T-83-082] 02 p0197 N84-11283
Influence of heat-treatment and physicochemical properties on the electrochemical oxidation of carbon blacks in phosphoric acid
[DE83-017744] 03 p0350 N84-12276
Evaluation of several high-strength copper sheet alloys
[DE83-015612] 03 p0353 N84-12298
Fluidized-bed and salt-bath heat treating (AISI 4130 and 4340 alloy steels)
[DE84-000979] 04 p0502 N84-13290
Feasibility of using a large press (80,000 - 200,000 tons) for manufacturing future components on Army systems
[AD-A132398] 04 p0544 N84-13582
Diffusion films produced by heat treatment of electroplated coatings
[BLL-OA-TRANS-3082-(6196.3)] 06 p0804 N84-15237
Superconducting properties of Nb3Sn multifilamentary wires fabricated by internal tin process
[DE83-018189] 06 p0925 N84-16011
Effect of heat treatment on the impact properties of a 12Cr-1Mo-V-W steel
[DE84-003440] 07 p0976 N84-16324
The effect of post weld heat treatment on welds in steel structures
[VTT-RR-217] 07 p1013 N84-16570
Heat treatment and residual austenite
[CSIR-TRANS-1704] 08 p1130 N84-17349
Development of modified 9 Cr-1 Mo steel for elevated-temperature service
[DE84-003161] 08 p1133 N84-17372
Over-aging of aluminum alloys
[DE84-004927] 08 p1135 N84-17382
Growth and evaluation of AgGaS2 and AgGaSe2 for infrared nonlinear applications
[NASA-CR-175185] 08 p1234 N84-18066
Effects of variations in heat treatment on the mechanical properties and microstructure of ASTM A710 Grade A Class 3 steel
[AD-A136328] 09 p1282 N84-18371
Movement of free-flowing materials in aerodynamic controlled-feed gate 09 p1324 N84-18652
Effects of preheat on weldments of NICOP steel
[AD-A137145] 10 p1458 N84-19524
Transactions of the Industrial Institute of Electronics (selected articles)
[AD-A137204] 10 p1485 N84-19711
Austenitizing and microstructure of a HT-9 steel
[DE84-004914] 11 p1635 N84-20687
A study of heterojunction solar cells based on n-CdS and several P-type semiconductors 11 p1672 N84-20914

Edge crack growth of thermally aged graphite/polyimide composites
[NASA-TM-85763] 12 p1789 N84-21667
Carbide formation and fracture of high carbon steel
[AD-A138519] 12 p1798 N84-21730
Effect of hydrogen on the mechanical properties of a U5.7Nb alloy
[DE84-006879] 12 p1799 N84-21732
The heat treatment response of thermomechanically processed M-50 steel
[AD-A138571] 13 p1960 N84-22736
Ceramic glazes: Basic information
[PB84-150663] 14 p2130 N84-23772
Thermal and transformation stresses in hollow tubes during the quenching process
[AD-P002976] 14 p2201 N84-24212
Method for strengthening boron fibers
[NASA-CASE-LEW-13826-2] 15 p2284 N84-24711
Improvement of heat treatment of tubes of steel 15Kh5M
[BLL-M-35545-(5828.4)] 17 p2621 N84-26774
Weldability of 2BT-treated 9Ni steel with ferritic filler metal
[DE84-006492] 18 p2815 N84-27869
The influence of overheating on the development of structures, on ductility, and on corrosion resistance of the heat effect zones of stabilized austenitic nickel-chromium steels
[MPA-83-03] 18 p2815 N84-27872
Effect of austenitisation heat treatment on the fracture resistance and temper embrittlement of MnMoNi steels
[AERE-R-11043] 18 p2816 N84-27882
Ethynyl-terminated ester oligomers and polymers therefrom
[NASA-CASE-LAR-131 i8-1] 19 p2997 N84-28988
Determining the coefficient of heat transfer during the filtration of a heat-carrying agent through a coil
[BLL-M-35601-(5828.4)] 19 p3020 N84-29146
Study of high performance alloy electroforming
[NASA-CR-173628] 20 p3152 N84-30013
Grain-refining heat treatments to improve cryogenic toughness of high-strength steels
[NASA-TM-85816] 20 p3152 N84-30014
Aeronautical Materials (selected articles)
[AD-A139952] 20 p3159 N84-30063
Influence of temperature on the Delta K sub th and da/dN of LY-12CS aluminum alloy 20 p3160 N84-30067
Development of improved low-strain creep strength in Cabot alloy R-41 sheet — nickel base sheet alloy for reentry shielding
[NASA-CR-172392] 21 p3365 N84-31346
A combined thermodynamic study of nickel-base alloys
[DE84-013467] 21 p3368 N84-31368
Improving comfort of welders by reducing preheating temperatures — steel welding
[CETIM-12-Y-413] 21 p3414 N84-31651
Influence of choice of steel on forging
[CETIM-1.3K.32.1] 21 p3416 N84-31663
Composition and structure of multicomponent vanadium- and niobium-base coatings
[BLL-M-35657-(5828.4)] 22 p3550 N84-32474
Cubic silicon nitride in iron-silicon steels
[BLL-M-35653-(5828.4)] 22 p3552 N84-32486
Effect of precipitated austenite on the fracture of a ferritic cryogenic steel
[DE84-014604] 22 p3557 N84-32521
Study of high performance alloy electroforming
[NASA-CR-173979] 23 p3717 N84-33565
Method for refining microstructures of blended elemental powder metallurgy titanium articles
[AD-D011177] 23 p3718 N84-33571
Tape casting of Honeywell PZT type 3 powder
[AD-A144215] 24 p3888 N84-34623

HEATING
NT AERODYNAMIC HEATING
NT ARC HEATING
NT ATMOSPHERIC HEATING
NT BASE HEATING
NT ELECTRON CYCLOTRON HEATING
NT GAS HEATING
NT INDUCTION HEATING
NT IONOSPHERIC HEATING
NT LASER HEATING
NT PLASMA HEATING
NT PULSE HEATING
NT RADIANT HEATING
NT RADIO FREQUENCY HEATING
NT RESISTANCE HEATING
NT SHOCK HEATING
NT SOLAR HEATING
NT SPACE HEATING (BUILDINGS)
NT SUPERHEATING
NT TRANSIENT HEATING
NT WATER HEATING

Space shuttle wing leading edge heating environment prediction derived from development flight data
01 p0025 N84-10162
Symposium on Heat Pumps per DIN 8900
[BLL-TRANS-T5843/BG-MRS1796-82]
01 p0076 N84-10500
Pressure and heating-rate distributions on a corrugated surface in a supersonic turbulent boundary layer
[NASA-TP-1024] 01 p0077 N84-10504
Numerical simulation of global ozone transport during stratospheric sudden warming 02 p0245 N84-11605
Heating with wind energy, part B
[BMFT-FB-T-83-131-PT-B] 03 p0405 N84-12651
Direct coronal heating from dissipation of magnetic field 03 p0466 N84-13069
Baroclinic and barotropic instability with cumulus heating and tropical cyclogenesis 05 p0710 N84-14656
Heat generation in aircraft tires under braked rolling conditions
[NASA-CR-3768] 06 p0858 N84-15587
The causation and variability of the northern winter quasi-stationary planetary waves
06 p0877 N84-15705
Thermal electron heating rate: A derivation
[NASA-TM-85124] 06 p0914 N84-15941
Computer models for two-dimensional transient heat conduction
[AD-A134893] 08 p1160 N84-17549
Friction welding 09 p1292 N84-18436
Characterizations of preheated and non-preheated HY-80 steel weldments by transmission electron microscopy
[AD-A136966] 10 p1460 N84-19537
The role of H/sub 2O in molecular clouds: Line transfer and thermal balance in warm dusty medium
10 p1596 N84-20460
Heat recovery subsystem and overall system integration of fuel cell on-site integrated energy systems
[NASA-CR-168309] 11 p1673 N84-20915
The sensitivity of a general circulation model to Saharan dust heating 12 p1858 N84-22108
Solar and internal gain adjustments in calculation of energy conservation savings
[DE83-011983] 16 p2512 N84-26119
Development of a thermal and structural model for a NASTRAN finite-element analysis of a hypersonic wing test structure 17 p2599 N84-26656
Spherical heat radiation receiver with white target
18 p2827 N84-27945
A study of thermal properties and the heating process in asphaltic concrete
[AD-A141691] 19 p3035 N84-29254
Ceramic-glass-metal seal by microwave heating
[DE84-011283] 20 p3196 N84-30295
Soliton collapse during ionospheric heating
[DE84-009994] 20 p3241 N84-30576
Studies of amplifier module in Delfin Facility for heating thermonuclear plasma 20 p3289 N84-30881
New approaches to photothermal spectroscopy
[DE84-009237] 21 p3359 N84-31310
High temperature metallic recuperator
[PB84-207869] 22 p3564 N84-32575
Behavior of Al2O3 and SiO2 with heating in a Cl2 + CO stream
[NASA-TM-77487] 23 p3713 N84-33533
Evaluation of candidate Stirling engine heater tube alloys after 3500 hours exposure to high pressure doped hydrogen or helium
[NASA-TM-83782] 24 p3883 N84-34603

HEATING EQUIPMENT
NT BOILERS
NT ELECTRIC FURNACES
NT EVAPORATORS
NT FURNACES
NT IMAGE FURNACES
NT OVENS
NT VACUUM FURNACES
NT VAPORIZERS
Thermostatic fine control valves mounted on the radiators in district heating systems
[BMFT-FB-T-83-169] 07 p1012 N84-16568
The effect of pressure on complex heat exchange in a channel with an electric arc
[BLL-OA-TRANS-3090-(6196.3)]
09 p1311 N84-18569
Comparison of field performance of a high efficiency heat pump with and without a desuperheater water heater
[DE84-005816] 11 p1653 N84-20795
Design guidelines for heating aircraft hangars with radiant heaters
[AD-A138496] 12 p1774 N84-21585
DOE-2, BDL summary, version 2.1B
[LBL-8688-REV-3] 16 p2519 N84-26170
Thermoelectric temperature control system for the pushbroom microwave radiometer (PBMR)
[NASA-TM-85624] 18 p2836 N84-28000
Aerodynamic and Propulsion Test Unit (APTU) performance with a vitiated air heater
20 p3144 N84-29964
Laboratory evaluation of the steady-state and part load performance of absorption type heating and cooling equipment
[PB84-182146] 21 p3376 N84-31426
Advancement of developmental technology for pulse combustion applications
[PB84-215268] 22 p3564 N84-32576
Glass heating panels and method for preparing the same from architectural reflective glass
[NASA-CASE-NPO-15753-1] 23 p3723 N84-33589
Tape heating method for space simulation testing
24 p3864 N84-34488

HEAVING
Revised procedure for pavement design under seasonal frost conditions
[AD-A134480] 07 p0986 N84-16364

HEAVY COSMIC RAY PRIMARIES
U HEAVY NUCLEI
U PRIMARY COSMIC RAYS

HEAVY ELEMENTS
NT AMERICIUM
NT AMERICIUM 241
NT PLUTONIUM
NT PLUTONIUM 238
Proceedings of the 13th Conference on Environmental Toxicology
[AD-A134150] 07 p1027 N84-16857
Research in the area of laser modified atomic physics
[AD-A139387] 14 p2222 N84-24335
A research program in determination of heavy metals in sediments and benthic species in relation to nuclear power plant operation
[NASA-CR-173537] 15 p2366 N84-25195
Elemental advances of ultraheavy cosmic rays
[NASA-CR-173650] 17 p2781 N84-27858

HEAVY IONS
Recent results in the study of heavy-ion elastic scattering at large angles
[DE83-012214] 01 p0142 N84-10935
X-ray emission in heavy-ion collisions
[DE83-008776] 01 p0144 N84-10946
Heavy-ion reaction mechanisms studied with the spin spectrometer
[DE83-015716] 01 p0144 N84-10950
The phenomenology of deep-inelastic processes
[DE83-016622] 02 p0292 N84-11913
Radioactive-ion-beam research at Livermore
[DE83-014872] 02 p0297 N84-11948
Cryogenic system for a superconducting spectrometer
[DE83-012995] 02 p0299 N84-11961
High-sensitivity mass spectrometry with a tandem accelerator
[DE83-017914] 03 p0350 N84-12274
Implications of heavy-ion-induced satellite X-ray emission. 1: Introduction
[DE83-015682] 03 p0435 N84-12851
The 88-inch cyclotron research program
[DE83-015827] 03 p0435 N84-12852
Electron capture and loss cross sections for collisions between heavy ions and hydrogen molecules, revised
[IPPJ-AM-28] 03 p0444 N84-12914
Inertial fusion with low-energy heavy ions
[DE83-016709] 03 p0446 N84-12934
Implications of heavy-ion-induced satellite X-ray emission. Part 2: Production of K and L X-rays by 0.9 to 2.6 MeV/u Ar ions in thick targets of V, Cu, Nb, Ta, and Pt
[DE83-015681] 03 p0453 N84-12982
Interpreting the solar wind ionization state
03 p0473 N84-13115
Acceleration of heavy ions in the solar wind
03 p0474 N84-13118
Ultra-relativistic heavy ions and cosmic rays
[DE83-015881] 03 p0476 N84-13134
Radiation-induced phosphorus segregation in austenitic and ferritic alloys
[DE84-000903] 04 p0504 N84-13302
Control and operation cost optimization of the HISS cryogenic system
[DE83-017741] 04 p0515 N84-13384
High-sensitivity laser spectroscopy with atoms from a cooled helium jet
[DE84-000614] 04 p0540 N84-13554
Statistical properties of deep inelastic reactions
[DE84-000722] 04 p0598 N84-13943
Acceleration of heavy ions in the AGS and CBA
[DE83-017762] 04 p0600 N84-13963
New heavy-ion-fusion accelerator research program
[DE83-014896] 04 p0609 N84-14016

Plasma jet effects on the ionospheric plasma
05 p0639 N84-14202
Improved four-stage accel-decel production of low-energy stripped heavy ions
[DE83-005791] 06 p0910 N84-15906
Ablation effects in oxygen-lead fragmentation at 2.1 GeV/nucleon
[NASA-TM-85704] 07 p1074 N84-16977
Power-amplification of a heavy-ion beam in an induction linac
[DE84-002911] 08 p1231 N84-18042
Neon transport in selected organic composites — stopping power of Kapton and polyethylene
[NASA-TM-85693] 08 p1231 N84-18044
A comment on atomic processes relevant to alpha particle diagnostics 11 p1736 N84-21323
Thermal diffusion in glass melts
[BMFT-FB-W-83-033] 12 p1802 N84-21751
An abrasion-ablation model description of galactic heavy-ion fragmentation
[NASA-TP-2305] 12 p1903 N84-22396
Heavy ion fusion reactor HIBLIC-1. Conceptual design of heavy ion fusion reactor
[IPPJ-663] 12 p1909 N84-22438
RFQ development at LBL
[DE84-006762] 13 p2045 N84-23271
Heavy ions in space (M0001)
15 p2275 N84-24662
Measurement of heavy cosmic-ray nuclei on LDEF (M0002-2) 15 p2276 N84-24664
Interactions of fast atomic and molecular ions with matter
[DE84-006555] 15 p2405 N84-25438
Heavy ion beam probe for the study of plasma confinement in Nagoya bumpy torus
[IPPJ-689] 15 p2409 N84-25462
A guideline for heavy ion radiation testing for Single Event Upset (SEU)
[NASA-CR-173731] 18 p2929 N84-28578
Baryon distribution in relativistic heavy-ion collisions
[DE84-008509] 18 p2930 N84-28581
Quantum mechanical studies of heavy ion scattering processes
[DE84-010124] 19 p3103 N84-29711
The Earth's radiation belts
[AD-A142673] 20 p3241 N84-30574
A high current heavy ion beam transport experiment at LBL
[DE84-009225] 20 p3294 N84-30912
Beam experiment programs in the USA
[DE84-010604] 21 p3493 N84-32138
Electromagnetic dissociation of radioactive heavy-ion beams
[DE84-012266] 21 p3495 N84-32146
Concept of a superconducting linac for low-velocity ions
[DE84-011740] 21 p3496 N84-32154
A determination of the charge state of energetic magnetospheric ions by the observation of drift echoes
[AD-A143181] 22 p3623 N84-32954
Present status and probable future capabilities of heavy-ion linear accelerators
[DE84-011741] 22 p3653 N84-33158
Spot heating calculation for a heavy ion driven high temperature experiment
[DE84-013879] 22 p3653 N84-33159
Galactic heavy-ion shielding using electrostatic fields
[NASA-TM-86265] 23 p3700 N84-33453

HEAVY LIFT AIRSHIPS
Helistat simulation studies
[NASA-CR-166567] 11 p1614 N84-20564
Aeroelastic effects in multi-rotor vehicles with application to a hybrid heavy lift system. Part 1: Formulation of equations of motion
[NASA-CR-3822] 21 p3344 N84-31216

HEAVY LIFT HELICOPTERS
A time domain analysis of a rigid two-bladed fully gimballed helicopter rotor with circulation control
[AD-A136947] 10 p1422 N84-19296
A study of aeroelastic and structural dynamic effects in multi-rotor systems with application to hybrid heavy lift vehicles
[NASA-CR-173505] 14 p2104 N84-23620
Successful Arctic testing of KA-32 helicopter
18 p2784 N84-27671
Aeroelastic effects in multi-rotor vehicles with application to a hybrid heavy lift system. Part 1: Formulation of equations of motion
[NASA-CR-3822] 21 p3344 N84-31216

HEAVY NUCLEI
Giant dipole resonances built on excited states
[DE84-001549] 06 p0916 N84-15954
Applications for fission product data to problems in stellar nucleosynthesis
[DE84-004819] 10 p1596 N84-20458
A high-resolution study of ultra-heavy cosmic-ray nuclei (A0178) 15 p2275 N84-24661
Heavy ions in space (M0001)
15 p2275 N84-24662

HEF (HIGH ENERGY FUELS)
U HIGH ENERGY FUELS

HEIGHT
Measured ionospheric Doppler spreading of HF ground backscatter
[PB83-220764] 01 p0068 N84-10446
A study of cirriform clouds over eleven USSR stations
[AD-A130085] 01 p0107 N84-10693
Automatic real time ionogram scaler with true height analysis - artist
[AD-A135174] 08 p1187 N84-17732
On the derivation of cloud structure parameters from aircraft measurements 10 p1536 N84-20062
Contributions to imaging quality and heighting accuracy of aerial cameras used at fairly high altitudes
19 p3040 N84-29284
Invariance of level of rotating liquid
[BLL-M-35611-(5828.4)] 20 p3182 N84-30220
SEASAT altimetry for surface height of inland seas
20 p3222 N84-30472
Variability in the height distribution of electrojet currents of Jicamarca
[INPE-3205-PRE/563] 21 p3442 N84-31840

HELICAL ANTENNAS
Backfire bifilar helix antenna
[AD-D011118] 22 p3587 N84-32719

HELICAL FLOW
A study of accretion in compact sources: Disk precession and jet helicity 06 p0929 N84-16038
Helical shear of an elastic circular tube with non-convex stored energy 15 p2313 N84-24882
Helical rotary screw expanders to generate electricity from geothermal brines 15 p2430 N84-25596
Comparison between two Lysholm engines
[DE84-013696] 22 p3564 N84-32571

HELICAL INDUCERS
An experimental study of helical guide-type rotating heat pipe 20 p3169 N84-30123

HELICAL WINDINGS
Design of the Advanced Toroidal Facility (ATF-1)
[DE83-012641] 03 p0445 N84-12923

HELICOPTER ATTITUDE INDICATORS
U ATTITUDE INDICATORS
U HELICOPTERS

HELICOPTER CONTROL
A simulation investigation of the effects of engine-and thrust-response characteristics on helicopter handling qualities
[NASA-TM-85849] 01 p0005 N84-10034
Research opportunities for rotorcraft
11 p1619 N84-20596
Multivariable digital control laws for the UH-60A black hawk helicopter
[AD-A141046] 18 p2797 N84-27746
UH-60A Black Hawk engineering simulation program. Volume 1: Mathematical model
[NASA-CR-166309] 19 p2968 N84-28806
Improved pilot model for application to a computer flight testing program for helicopters
[NLR-MP-83052-U] 20 p3129 N84-29869

HELICOPTER DESIGN
Helicopter vertical stabilizer design considerations
[AD-A132306] 04 p0483 N84-13180
Helicopter blade tips
[NASA-TM-77370] 06 p0782 N84-15119
Hover test of a full-scale hingeless helicopter rotor: Aeroelastic stability, performance and loads data — wind tunnel tests
[NASA-TM-85892] 09 p1255 N84-18190
A study of aeroelastic and structural dynamic effects in multi-rotor systems with application to hybrid heavy lift vehicles
[NASA-CR-173505] 14 p2104 N84-23620
Modern helicopter development in Germany
[MBB-UD-395-83-O] 14 p2105 N84-23627
A mathematical model of the UH-60 helicopter
[NASA-TM-85890] 14 p2110 N84-23653
Computer programs for helicopter data display and conceptual design
[AD-A139096] 14 p2205 N84-24231
An investigation into the nature and control of vortex flow round helicopter upsweep
[BU-285] 15 p2255 N84-24544
Acoustic measurements of a full-scale rotor with four tip shapes. Volume 2: Appendices C, D, E and F
[NASA-TM-85878-VOL-2] 15 p2403 N84-25426
The interpretation of design requirements for multi-market helicopters 16 p2435 N84-25617
Experimental modal analysis
[SNIAS-832-210-110] 16 p2440 N84-25655
Aerospatiale's experience on helicopter flight in icing conditions
[SNIAS-832-210-107] 16 p2448 N84-25707
Aermedical Support in Military Helicopter Operations
[AGARD-LS-134] 16 p2536 N84-26279
Aeromedical support in military helicopter operations
16 p2536 N84-26280
Medical aspects of helicopter safety and crashworthiness 16 p2537 N84-26287
Back pain in helicopter flight operations
16 p2537 N84-26288
NASTRAN analysis of nuclear effects on helicopter transparencies
[AD-P003234] 17 p2597 N84-26647
Achievements of Kamov helicopter design bureau
17 p2598 N84-26653
Solution of 3-dimensional time-dependent viscous flows. Part 2: Development of the computer code
[NASA-CR-166565-PT-2] 17 p2666 N84-27002
Solution of 3-dimensional time-dependent viscous flows. Part 3: Application to turbulent and unsteady flows
[NASA-CR-166565-PT-3] 17 p2667 N84-27003
Solution of 3-dimensional time-dependent viscous flows. Part 1: Investigation of candidate algorithm
[NASA-CR-166565-PT-1] 17 p2757 N84-27503
Two-dimensional aerodynamic characteristics of an airfoil designed for two
[NASA-TP-1965] 18 p2788 N84-27694
Multivariable digital control laws for the UH-60A black hawk helicopter
[AD-A141046] 18 p2797 N84-27746
Two-dimensional aerodynamic characteristics of three rotorcraft airfoils at Mach numbers from 0.35 to 0.90
[NASA-TP-2000] 19 p2957 N84-28743
UH-60A Black Hawk engineering simulation program. Volume 1: Mathematical model
[NASA-CR-166309] 19 p2968 N84-28806
Acoustic design criteria and validation
19 p3096 N84-29663
Noise reduction experience at Hughes Helicopter, Inc.
19 p3096 N84-29666
Boeing Vertol noise reduction experience
19 p3096 N84-29667
Rotary wing aerodynamically generated noise
19 p3097 N84-29668
NASA/Army supported noise source/noise reduction programs at Langley 19 p3097 N84-29669
Role of empirical methods 19 p3097 N84-29670
Priority for empirical methods development
19 p3097 N84-29671
High-speed noise of helicopter rotors
19 p3097 N84-29673
State of the art: Design for noise I
19 p3099 N84-29682
State of the art: Design for noise II
19 p3099 N84-29683
A designer's viewpoint: Requirements for reducing helicopter noise 19 p3099 N84-29684
Transmission efficiency measurements and correlations with physical characteristics of the lubricant
[NASA-TM-83740] 20 p3195 N84-30293
Summary of drive-train component technology in helicopters
[NASA-TM-83726] 20 p3195 N84-30294
Contribution of the industry to a better adaptation of helicopters to military requirements
[SNIAS-841-210-102] 23 p3687 N84-33367
An analysis of three approaches to the helicopter preliminary design problem
[AD-A144315] 24 p3854 N84-34440

HELICOPTER ENGINES
A simulation investigation of the effects of engine-and thrust-response characteristics on helicopter handling qualities
[NASA-TM-85849] 01 p0005 N84-10034
Powerplant selection for conceptual helicopter design
[AD-A132962] 05 p0632 N84-14153
Helicopter engine technology with particular reference to the Rolls-Royce Gem engine
[PNR-90193] 13 p1934 N84-22578
Preliminary airworthiness evaluation of the UH-60 helicopter with T700-GE-701A engines installed
[AD-A140882] 17 p2606 N84-26696
Advanced system for testing new helicopter transmissions 21 p3329 N84-31120
T700 engine case study report. IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A143104] 21 p3343 N84-31211

HELICOPTER PERFORMANCE
Helicopter blade tips
[NASA-TM-77370] 06 p0782 N84-15119
Helicopter flying qualities characteristics-CH-46E, volume 1
[AD-A134320] 07 p0951 N84-16170

Helicopter flying qualities characteristics-CH-46E, volume 2
[AD-A134321] 07 p0951 N84-16171
Helicopter flying qualities characteristics-CH-46E, volume 3
[AD-A134322] 07 p0951 N84-16172
Helicopter flying qualities characteristics-CH-46E, volume 4
[AD-A134323] 07 p0951 N84-16173
Rotary wing aircraft and technical publications of NASA, 1970 - 1982
[NASA-TM-85521] 08 p1239 N84-18102
An experimental evaluation of the Sternberg task as a workload metric for helicopter Flight Handling Qualities (FHQ) research
[NASA-TM-85884] 10 p1553 N84-20176
Modern helicopter development in Germany
[MBB-UD-395-83-O] 14 p2105 N84-23627
System concepts for helicopter air-to-air combat
[SNIAS-832-210-102] 16 p2448 N84-25705
Aerospatiale's experience on helicopter flight in icing conditions
[SNIAS-832-210-107] 16 p2448 N84-25707
Single-pilot IFR flights and operations
[SNIAS-832-210-103] 16 p2552 N84-26374
Achievements of Kamov helicopter design bureau 17 p2598 N84-26653
In-flight evaluation of 2 molecular sieve oxygen concentration systems in US Army aircraft (JUH-1H and JU-21G)
[AD-A140634] 17 p2748 N84-27443
Report of an overseas visit to the USA, part 2
[AD-A142054] 19 p2955 N84-28729
Noise reduction experience at Hughes Helicopter, Inc. 19 p3096 N84-29666
Boeing Vertol noise reduction experience 19 p3096 N84-29667
Advanced system for testing new helicopter transmissions 21 p3329 N84-31120
More use of helicopters in construction work urged 24 p3851 N84-34424

HELICOPTER PROPELLER DRIVE

Boeing Vertol noise reduction experience 19 p3096 N84-29667
Summary of drive-train component technology in helicopters
[NASA-TM-83726] 20 p3195 N84-30294

HELICOPTER ROTORS

U ROTARY WINGS

HELICOPTER TAIL ROTORS

A study of the aerodynamic interactions of the tail rotor and fin
[AD-A130757] 01 p0005 N84-10030
An empirical appraisal of defects in composites — helicopter tail rotor blades 01 p0034 N84-10211
Estimated analysis of the aeroelastic behavior of tail rotors 02 p0172 N84-11129
Study of an asymptotic method for helicopter rotor blade aerodynamic loads 03 p0327 N84-12135
Investigation of operational and design factors resulting from main rotor and tail rotor interactions
[AD-A137710] 11 p1603 N84-20497
A mathematical model of the UH-60 helicopter
[NASA-TM-85890] 14 p2110 N84-23653
A study of helicopter gust response alleviation by automatic control
[NASA-TM-85870] 14 p2111 N84-23655
The compressible aerodynamics of rotating blades using an acoustic formulation 16 p2442 N84-25670
The SARIB vibration absorber
[SNIAS-832-210-104] 16 p2502 N84-26058
The investigation of a variable camber blade lift control for helicopter rotor systems
[NASA-CR-3503] 18 p2788 N84-27695
Role of empirical methods 19 p3097 N84-29670

HELICOPTER WAKES

Helicopter rotor wake geometry and its influence in forward flight. Volume 2: Wake geometry charts
[NASA-CR-3727] 03 p0320 N84-12091
Calculation of the aerodynamic flow field in the vicinity of a Sea King helicopter
[ARL-AERO-REPT-158] 08 p1096 N84-17128
Helicopter rotor wake geometry and its influence in forward flight. Volume 1: Generalized wake geometry and wake effect on rotor airloads and performance
[NASA-CR-3726] 08 p1099 N84-17149
Computation of potential flows with embedded vortex rings and applications to helicopter rotor wakes
[NASA-CR-166542] 08 p1156 N84-17526
Navier-Stokes calculations for the vortex of a rotor in hover
[NASA-TM-85894] 15 p2255 N84-24540

HELICOPTERS

NT AH-1G HELICOPTER
NT H-60 HELICOPTER
NT HEAVY LIFT HELICOPTERS
NT MILITARY HELICOPTERS
NT RIGID ROTOR HELICOPTERS
NT SH-3 HELICOPTER
NT UH-1 HELICOPTER
NT UH-60A HELICOPTER
An experimental investigation of a free-tip rotor configuration in a forward flight wind-tunnel test
[NASA-TM-84409] 01 p0003 N84-10018
Development and flight test of an X-band precision approach concept for remote-area rotorcraft operations
[NASA-TM-84398] 01 p0007 N84-10041
Application of an adaptive blade control algorithm to a gust alleviation system
[NASA-TM-85848] 01 p0012 N84-10079
Parametric tip effects for conformable rotor applications
[NASA-TM-85682] 01 p0094 N84-10609
Preliminary investigation of variation in some dark adaptation aspects for possible relevance to military helicopter aircrew
[AD-A130231] 01 p0113 N84-10733
Helicopter noise survey conducted at Norwood, Massachusetts on April 27, 1983
[AD-A131053] 01 p0140 N84-10922
Aeroelastic Considerations in the Preliminary Design of Aircraft
[AGARD-CP-354] 02 p0169 N84-11116
Aeroelastic design considerations in the development of helicopters 02 p0171 N84-11126
The influence of aeroelastic stability requirements on helicopter design 02 p0171 N84-11127
Aeroelastic considerations in the design of high speed rotors 02 p0171 N84-11128
The role of aeroelasticity in the preliminary design of helicopter rotors 02 p0172 N84-11130
Rotor/body aerodynamic interactions
[NASA-TM-85844] 02 p0174 N84-11143
Simulation and evaluation of the Sh-2F helicopter in a shipboard environment using the interchangeable cab system
[NASA-TM-84387] 02 p0180 N84-11176
Adaptive inverse control for helicopter vibration reduction
[NASA-TM-84336] 02 p0181 N84-11177
Helicopter noise survey performed at Parker Center, Pasadena, and Anaheim, California, on February 10-14, 1983
[AD-A130962] 02 p0288 N84-11887
Development of the basic methods needed to predict the aeroelastic behavior of helicopters 03 p0429 N84-12811
Noise emission by helicopters 03 p0457 N84-13007
Helicopter In-flight Monitoring System second generation (HIMS 2)
[AD-A132498] 04 p0483 N84-13179
Helicopter vertical stabilizer design considerations
[AD-A132308] 04 p0483 N84-13180
Preliminary airworthiness evaluation of the UH-60A configured with the External Stores Support System (ESSS)
[AD-A132964] 05 p0630 N84-14139
Research towards and development of aerospace vehicle noise certification with emphasis on propeller aircraft and helicopters 06 p0767 N84-15026
Helicopter noise 06 p0767 N84-15027
Army helicopter crashworthiness 06 p0777 N84-15090
A study of helicopter rotor aerodynamics in ground-effect at low speeds 06 p0779 N84-15106
Special opportunities in helicopter aerodynamics
[NASA-TM-84396] 07 p0946 N84-16138
Helicopter flying qualities characteristics-CH-46E, volume 1
[AD-A134320] 07 p0951 N84-16170
Helicopter flying qualities characteristics-CH-46E, volume 2
[AD-A134321] 07 p0951 N84-16171
Helicopter flying qualities characteristics-CH-46E, volume 3
[AD-A134322] 07 p0951 N84-16172
Helicopter flying qualities characteristics-CH-46E, volume 4
[AD-A134323] 07 p0951 N84-16173
Effect of blade structural parameters on helicopter vibrational characteristics
[AD-A134547] 07 p0951 N84-16174
A helicopter flight investigation of roll-control sensitivity, damping and cross coupling in a low altitude lateral maneuvering task
[NASA-TM-84376] 07 p0959 N84-16216
Sortie duration and helicopter component failures (an empirical study)
[AD-A134745] 08 p1095 N84-17122
Computer programs for helicopter high speed flight analysis
[AD-A136376] 09 p1255 N84-18191
Investigation of the effect of blade sweep on rotor vibratory loads
[NASA-CR-166526] 09 p1256 N84-18196
Computer program for preliminary helicopter design
[AD-A136026] 09 p1256 N84-18197
Helicopter impulsive noise: Theoretical and experimental status
[NASA-TM-84390] 09 p1386 N84-19050
Simulation and analysis of differential global positioning system for civil helicopter operations
[NASA-CR-166534] 10 p1425 N84-19317
In-flight acoustic testing techniques using the YO-3A Acoustic Research Aircraft
[NASA-TM-85895] 10 p1427 N84-19334
Applications of composite materials in helicopter construction
[AD-A136678] 10 p1427 N84-19336
Flight service evaluation of composite components on the Bell helicopter model 206L, flight service report
[NASA-CR-172296] 10 p1452 N84-19479
AVRADCOM research helicopter vibration 10 p1507 N84-19867
Aircraft survivability 10 p1508 N84-19869
Evaluation of ride quality prediction methods for helicopter interior noise and vibration environments
[NASA-TP-2261] 10 p1549 N84-20155
Aircraft accident report. Western Helicopters, Inc., Bell-UH-1B, N87701, Valencia, California July 23, 1982
[PB84-910402] 11 p1603 N84-20502
Helicopter fatigue design guide
[AD-A138963] 11 p1605 N84-20513
Crew survivable helicopter undercarriage
[AD-A137770] 11 p1606 N84-20517
A summary of rotorcraft handling qualities research at NASA Ames Research Center 11 p1615 N84-20571
Research opportunities for rotorcraft 11 p1619 N84-20596
Thermal constraints in a helicopter during long duration flights under extreme climatic conditions 11 p1698 N84-21078
Numerical analysis of a variable camber rotor blade as a lift control device
[NASA-CR-173452] 12 p1769 N84-21538
UH-60 shoulder harness lead-in strap failure analysis
[AD-A138014] 12 p1867 N84-22170
Some mathematical tools for a modeller's workbench 12 p1873 N84-22204
Broadband rotor noise analyses
[NASA-CR-3797] 12 p1899 N84-22365
Detection of horizontal bars as a function of length, separation, eccentricity and frequency of temporal modulation: Possible applications to helicopter acquisition
[BAE-BT-11288] 13 p2021 N84-23105
User manual for driver program
[AD-A139028] 13 p2029 N84-23156
Propeller and rotor noise testing in aeroacoustic wind tunnels 14 p2097 N84-23583
NASA-FAA helicopter Microwave Landing System curved path flight test
[NASA-TM-85933] 14 p2103 N84-23617
Use of helicopters to develop operational concepts for V/STOL (vertical and short takeoff and landing) aircraft in naval missions
[AD-A139354] 14 p2105 N84-23624
Contingency power concepts for helicopter turboshaft engine
[NASA-TM-83679] 14 p2109 N84-23648
Acoustic measurements of a full-scale rotor with four tip shapes. Volume 1: Text, appendices A and B
[NASA-TM-85878-VOL-1] 14 p2221 N84-24327
Development and flight test of a helicopter compact, portable, precision landing system concept
[NASA-TM-85951] 15 p2259 N84-24566
The influence of a moving suspension on the behaviour of modelled helicopter underslung loads
[BU-288] 15 p2260 N84-24573
Rotorcraft contingency power study
[NASA-CR-174675] 15 p2261 N84-24580
A piloted simulator investigation of decoupling helicopters by using a model following control system
[AD-A139976] 15 p2264 N84-24596
Marginal ice zone experiment (1983). Part 1: Ice characterization measurements. Part 2. Helicopter-borne and ship-based radar backscatter measurement of sea ice in the marginal ice zone
[AD-A139894] 15 p2373 N84-25238
Dynamics of changes in metabolic and endocrine processes in helicopter crews during commercial flights 15 p2375 N84-25254
Fuel fire tests of the helicopter crewman jacket
[AD-A140037] 15 p2385 N84-25302

Noise measurement flight test: Data/Analyses Bell 222 twin jet helicopter
[AD-A139906] 15 p2404 N84-25430
Current design requirements for corrosion control on helicopters 16 p2434 N84-25616
The interpretation of design requirements for multi-market helicopters 16 p2435 N84-25617
The compressible aerodynamics of rotating blades using an acoustic formulation 16 p2442 N84-25670
Helicopter Pilot/Copilot survival system
[AD-A140358] 16 p2445 N84-25682
The development of the Navy variant of the Dauphin 2 helicopter
[SNIAS-832-210-106] 16 p2448 N84-25706
Evolution of a heave control system for an amphibious hovercraft
[CAR-8401] 16 p2475 N84-25864
Nondestructive testing of composite structures
[SNIAS-832-210-108] 16 p2500 N84-26045
The SARIB vibration absorber
[SNIAS-832-210-104] 16 p2502 N84-26058
Aermedical Support in Military Helicopter Operations
[AGARD-LS-134] 16 p2536 N84-26279
Stressful mission profiles, part 1
16 p2536 N84-26281
Stressful mission profiles, part 2: Workload and fatigue 16 p2536 N84-26282
Visual problems in helicopter operations
16 p2536 N84-26283
Disorientation in helicopter flight
16 p2536 N84-26284
Hearing loss associated with helicopter flight
16 p2537 N84-26285
Thermal control problems in military helicopters
16 p2537 N84-26286
Aeromedical support of helicopter medical evacuation and rescue operations 16 p2537 N84-26289
Towards a better understanding of helicopter external noise
[SNIAS-832-210-113] 16 p2554 N84-26388
Achievements of Kamov helicopter design bureau
17 p2598 N84-26653
An analysis of rotor blade twist variables associated with different Euler sequences and pretwist treatments
[NASA-TM-84394] 17 p2606 N84-26693
The investigation of a variable camber blade lift control for helicopter rotor systems
[NASA-CR-3503] 18 p2788 N84-27695
Evaluation of UH-1H hover performance degradation caused by rotor icing
[AD-A141252] 18 p2793 N84-27727
Shapes for rotating airfoils
[NASA-CASE-LAR-12396-1] 19 p2956 N84-28732
A 60 GHz pulse radar for detection of high voltage power lines
[BMFT-FB-W-84-013] 19 p3009 N84-29077
Community reaction to impulsive noise: A 10-year research summary
[AD-A141762] 19 p3052 N84-29369
Rotorcraft noise
[NASA-CP-2234] 19 p3096 N84-29662
A comparison of wind tunnels suitable for rotorcraft noise studies 19 p3096 N84-29665
Role of empirical methods 19 p3097 N84-29670
Priority for empirical methods development
19 p3097 N84-29671
Facility requirements for helicopter noise research
19 p3097 N84-29672
High-speed noise of helicopter rotors
19 p3097 N84-29673
Acoustic methodology review
19 p3098 N84-29674
Psychoacoustic considerations for helicopter noise quantification: Metrics, human response and criteria
19 p3098 N84-29675
Helicopter engine core noise
19 p3098 N84-29676
Rotorcraft noise prediction 19 p3098 N84-29677
Field repair of AH-16 helicopter window cutting assemblies
[NASA-TM-85831] 20 p3128 N84-29864
Worldwide flight and ground-based exposure of composite materials 20 p3145 N84-29971
Analysis of computer interactive tests for assigning helicopter pilots to different missions
[AD-A142434] 20 p3262 N84-30696
The influence of a wind tunnel on helicopter rotational noise: Formulation of analysis
[NASA-TM-85962] 20 p3290 N84-30857
Development and application of an analysis of axisymmetric body effects on helicopter rotor aerodynamics using modified slender body theory
[NASA-TM-85934] 21 p3324 N84-31090
Flapping-torsional response of helicopter rotor blades to turbulence excitation 21 p3327 N84-31110
Advanced system for testing new helicopter transmissions 21 p3329 N84-31120
Concepts for LHX avionics
[AD-P003575] 21 p3336 N84-31180
Reliability analysis of an ultra-reliable fault tolerant control system
[NASA-CR-166594] 21 p3345 N84-31219
An integral equation for the solution of nonlinear wave equations 22 p3529 N84-32347
Noise measurement flight test: Data-analyses Aerospatiale SA-365N Dauphin 2 helicopter
[AD-A143229] 22 p3852 N84-33151
Analysis of benefits realized from multiyear contracting for the Black Hawk helicopter
[AD-A143485] 22 p3869 N84-33254
Refinement and evaluation of helicopter real-time self-adaptive active vibration controller algorithms
[NASA-CR-3821] 23 p3889 N84-33378
Helicopter anti-torque system using strakes
[NASA-CASE-LAR-13233-1] 23 p3892 N84-33400
Hover test of a full-scale hingeless rotor
[NASA-TM-85990] 23 p3892 N84-33401
Flight operation manual for the MI-8 helicopter
[AD-A143860] 23 p3893 N84-33407
An analysis of three approaches to the helicopter preliminary design problem
[AD-A144315] 24 p3854 N84-34440
Periodic control of the individual-blade-control helicopter rotor
[NASA-CR-166607] 24 p3911 N84-34771

HELIOCENTRIC ORBITS
U SOLAR ORBITS

HELIOGRAPHS
U SPECTROHELIOGRAPHS

HELIOGRAPHY
U SPECTROHELIOGRAPHS

HELIOMAGNETISM
U SOLAR MAGNETIC FIELD

HELIOMETERS
NT PYROHELIOMETERS

HELIOMETRY
U PYROHELIOMETERS

HELIOS A
Eight years of in orbit experience with the HELIOS solar probe thermal control subsystem
10 p1446 N84-19445

HELIOS B
Eight years of in orbit experience with the HELIOS solar probe thermal control subsystem
10 p1446 N84-19445

HELIOS SATELLITES
NT HELIOS A
NT HELIOS B
NT HELIOS 1
NT HELIOS 2
Interplanetary Alfvenic fluctuations: A statistical study of the directional variations of the magnetic field
03 p0467 N84-13076
The celestial mechanics experiment (E 11) of HELIOS
[BMFT-FB-W-83-016] 08 p1243 N84-18124

HELIOS 1
The average solar wind in the inner heliosphere: Structures and slow variations 03 p0472 N84-13105

HELIOS 2
The average solar wind in the inner heliosphere: Structures and slow variations 03 p0472 N84-13105

HELIOSPHERE
Solar wind variations in the 60-100 year period range: A review 03 p0469 N84-13092
Radial evolution of ion distribution functions
03 p0470 N84-13094
Solar wind disturbances in th outer heliosphere caused by successive solar flares from the same active region
03 p0472 N84-13104
The average solar wind in the inner heliosphere: Structures and slow variations 03 p0472 N84-13105
Corotating shocks in inner heliosphere
03 p0475 N84-13124
The International Solar Polar Mission: Its scientific investigations — International Solar Polar Mission (ISPM)
[ESA-SP-1050] 09 p1260 N84-18227
ISPM and the heliosphere 09 p1260 N84-18228
The ISPM mission: Science objectives and mission overview 09 p1260 N84-18229
The ISPM interstellar neutral-gas experiments
09 p1261 N84-18234
The ISPM experiment for spectral, composition and anistropy measurements of charged particles at low energie 09 p1261 N84-18235
The ISPM unified radio and plasma wave experiment
09 p1262 N84-18237
The ISPM spacecraft 09 p1263 N84-18243
Coalescence of two pressure waves associated with stream interactions
[NASA-TM-86120] 16 p2561 N84-26554
Ion reflection, gyration, and dissipation at supercritical shocks
[DE84-011353] 20 p3303 N84-30980
MHD processes in the outer heliosphere
[NASA-TM-86137] 23 p3845 N84-34391

HELIOSTATS
Wind load and life-cycle testing of second generation heliostats
[DE84-003333] 07 p1026 N84-16648
Thermodynamic model for a central receiver of a solar plant with partial shading of the heliostat field
[ESA-TT-807] 13 p2010 N84-23034
Technical and cost benefits of lightweight, stretched-membrane heliostats
[DE83-009408] 16 p2513 N84-26124
Atmospheric transmittance model for a solar beam propagating between a heliostat and a receiver
[DE84-007990] 18 p2953 N84-28716
Technical and cost potential for lightweight, stretched-membrane heliostat technology
[DE84-004433] 20 p3236 N84-30543
Evolution of integrated panel structural design and interfaces for PV power plants 22 p3584 N84-32701

HELIPORTS
Helicopter noise survey performed at Parker Center, Pasadena, and Anaheim, California, on February 10-14, 1983
[AD-A130962] 02 p0288 N84-11887

HELIUM
NT HELIUM IONS
NT HELIUM ISOTOPES
NT LIQUID HELIUM
NT LIQUID HELIUM 2
Experimental determination of transport coefficients in CO2 laser gas mixtures
[DE83-013838] 01 p0088 N84-10572
Molecular-beam scattering
[DE83-016138] 01 p0144 N84-10951
Self-pumping impurity control by in-situ metal deposition
[DE83-014265] 02 p0195 N84-11265
Shocked fluids at high densities and temperatures
[DE83-015901] 02 p0219 N84-11437
Leak testing and repair of fusion devices
[DE83-014942] 02 p0296 N84-11944
Self-pumping impurity by in-situ metal deposition
[DE83-017937] 03 p0355 N84-12306
Helium damage in austenitic stainless steels
[DE83-017494] 03 p0355 N84-12309
Satellite refrigerator compressors with the oil and moisture removal systems
[DE83-016079] 03 p0384 N84-12502
Helium-flow measurement using ultrasonic technique
[DE83-017765] 03 p0431 N84-12826
A numerical model for diffusion of helium in a hydrogen plasma
[REPT-83-147] 03 p0450 N84-12964
The far infrared sky survey experiment
[AD-A131966] 03 p0461 N84-13037
The interplanetary hydrogen and helium glow and the inferred interstellar gas properties
03 p0472 N84-13109
Survey of He(+)/He(2+) abundance ratios in energetic particle events 03 p0474 N84-13117
Effect of phosphorus on the swelling and precipitation behavior of austenitic stainless steels during irradiation
[DE84-000412] 04 p0499 N84-13275
Effect of implanted helium on the microstructure and creep properties of ordered (FeO.49 NiO.51) V-3 alloys
[DE84-000691] 04 p0500 N84-13278
Irradiation response in titanium-modified austenitic stainless steels prepared by rapid-solidification processing. Part 1: Microstructural response to neutron irradiation
[DE84-001298] 04 p0501 N84-13283
Fermilab satellite refrigerator compressors with the oil- and moisture-removal systems
[DE83-017328] 04 p0515 N84-13386
Observations of nonlinear behavior in a low-pressure discharge column
[AD-A132321] 04 p0605 N84-13996
Neutron measurements and radiation damage calculations for fusion materials studies
[DE83-014790] 04 p0608 N84-14011
Comparison of measured and calculated helium production in nickel using newly evaluated neutron cross sections for (59)Ni
[DE84-000565] 04 p0611 N84-14035
Forced two-phase cooling of the TPC superconducting solenoid
[DE83-017749] 04 p0613 N84-14049
Molecular supersonic jet studies of Aniline solvation by helium and methane
[AD-A132879] 05 p0650 N84-14276

Molecular jet study of aniline-helium van der Waals molecules and aniline radiationless relaxation in the 1-B sub 2 excited electronic state
[AD-A132726] 05 p0744 N84-14868
High resolution ultraviolet laser spectroscopy of mercury and helium 06 p0800 N84-15214
An application of gap regenerator/expander precooled by two stage G-M refrigerator 06 p0819 N84-15337
Compact Claude cycle refrigerator for laboratory use 06 p0819 N84-15338
A small and light weight heat exchanger for on-board helium refrigerator 06 p0819 N84-15339
On 3He bolometer systems
[NASA-CR-175325] 06 p0846 N84-15520
A report on superfluid helium flow through porous plugs for space science applications 06 p0930 N84-16043
Investigation of a microwave discharge in argon/helium mixtures
[LP-202] 07 p0995 N84-16451
Heat transfer for turbulent flow of helium or hydrogen in a tube at high temperatures: Evaluation with the method of Petukhov
[KFK-3593] 07 p1005 N84-16518
Intermediate energy proton stopping power for hydrogen molecules and monoatomic helium gas 07 p1071 N84-16955
Effects of pulsed and/or dual ion irradiation on microstructural evolution in a Ti and Si modified Austenitic alloy
[DE84-003411] 08 p1134 N84-17374
Interaction of weak shock waves and discrete gas inhomogeneities 08 p1155 N84-17517
The ISPM energetic panel particle composition experiment 09 p1261 N84-18233
The ISPM interstellar neutral-gas experiments 09 p1261 N84-18234
Radiative collisional laser feasibility demonstration
[AD-A135793] 09 p1322 N84-18640
Inner-shell photoemission from atoms and molecules using synchrotron radiation
[DE84-006624] 14 p2223 N84-24339
Nonlinear transmission of laser radiation by ZnTe monocrystals at helium temperatures 17 p2636 N84-26863
Helium 10630 angstrom irradiance: 1975-1983 17 p2779 N84-27648
Helium effects on the swelling of steels
[DE84-008989] 18 p2815 N84-27871
Spin-polarized triplet helium
[NASA-CR-173787] 19 p2987 N84-28929
Supersonic molecular jet studies of Toluene-Helium and Toluene-Methane clusters
[AD-A141379] 19 p2988 N84-28931
Optimized He 2 cooling systems for space application. Behavior and handling of superfluid helium at g = 0, phase 2
[BMFT-FB-W-84-006] 19 p3025 N84-29185
Simulation program for central helium liquefier
[DE84-009666] 19 p3079 N84-29539
Hyperspherical coordinate theory of 2 electron atomic processes
[DE84-009447] 19 p3102 N84-29705
Evolution of cavity microstructure in ion-irradiated 316 SS and Fe-20Ni-15Cr alloy
[DE84-012111] 20 p3158 N84-30053
Improved gaseous leak detector
[DE84-011295] 20 p3190 N84-30265
Analyzer for determining helium-4 in the part-per-billion range
[PB84-189554] 20 p3191 N84-30272
Helium thrustor propulsion system for precise attitude control and drag compensation of the gravity Probe-B satellite 21 p3349 N84-31242
Probing a plasma with high-energy beams of atoms using threshold detectors
[DE84-013360] 21 p3502 N84-32195
A modified tritium trick technique for doping vanadium alloys with helium
[DE84-014267] 23 p3720 N84-33581
Automated helium gas metering system
[DE84-015083] 23 p3751 N84-33779
Life tests of ball bearings at 120C in helium atmosphere
[JUEL-1911] 23 p3757 N84-33816
Pioneer 10 and Voyager observations of the interstellar medium in scattered emission of the He584 A and H Lya 1216 A lines
[NASA-CR-173931] 23 p3840 N84-34361
Evaluation of candidate Stirling engine heater tube alloys after 3500 hours exposure to high pressure doped hydrogen or helium
[NASA-TM-83782] 24 p3883 N84-34603
Spectral analysis of helium poor hot subdwarfs 24 p3976 N84-35181
An analysis of the helium-weak stars HD 144334 24 p3976 N84-35182

HELIUM IONS
The relative abundance of 3He(++) in the solar wind 03 p0473 N84-13111
Charge state resolved energy spectra of He, N, Ar, and Ne ions — in a plasma focus 10 p1582 N84-20366
Wavelength measurement of X-ray lines from He-like ions 11 p1736 N84-21326
Dependence of the backscattering coefficients of light ions upon angle of incidence
[IPPJ-AM-34] 15 p2409 N84-25459
Observations of He+ ions in the solar wind
[KGI-PREPRINT-064] 15 p2428 N84-25585
Electron capture cross sections in high energy He2+ + neutral Li collisions
[IPPJ-679] 21 p3500 N84-32182

HELIUM ISOTOPES
Interpretation of 3He variations in the solar wind
[NASA-TM-85049] 03 p0466 N84-13065
The relative abundance of 3He(++) in the solar wind 03 p0473 N84-13111
Quantum-mechanical calculations of the properties of liquid He droplets
[DE84-000164] 04 p0491 N84-13220
Specific heat of He-3 in the Fermi-liquid region
[DE83-014858] 08 p1162 N84-17586
Using the surface tension to estimate the condensate density of superfluid He-4
[DE83-011325] 08 p1236 N84-18077
Application of He-II technology to the production of ultrahigh-field superconducting magnets
[DE84-004853] 10 p1575 N84-20319
Design considerations for a HE-3 refrigerator for space applications
[NASA-TM-85973] 18 p2836 N84-28001
Remarks on thermal analyses of thin 4He films in superfluid heat pipe 20 p3169 N84-30121
He-3 cooling systems for space
[NASA-TM-85985] 20 p3183 N84-30226
Metastable complexes of helium-hydrogen isotopes
[DE84-009995] 21 p3496 N84-32160
Maximum supercooling in liquid 3He-4He mixtures near the tricritical point
[DE84-010076] 22 p3665 N84-33232
Dynamical scaling in 3He-4He liquid mixtures
[DE84-010072] 22 p3665 N84-33233

HELIUM PLASMA
Laser and plasma research
[AD-A136519] 09 p1397 N84-19125
Transport of deuterium, tritium and helium in a Tokamak
[REPT-84-150] 17 p2766 N84-27567

HELIUM STARS
U B STARS

HELIUM 2
U HELIUM ISOTOPES
U LIQUID HELIUM

HELIUM 3
U HELIUM ISOTOPES

HELIUM 4
U HELIUM ISOTOPES

HELIUM-NEON LASERS
Gauge block lasometer development
[DE83-018288] 03 p0378 N84-12458
Reliability modeling of critical electronic devices
[AD-A135705] 09 p1328 N84-18689
Utilizing light focusing by gas discharge medium for stabilization of emission power of He-Ne laser at wavelength of 6401 angstroms 13 p1969 N84-22779
Helium-neon lasers for remote measurements of natural gas leaks 15 p2430 N84-25595
Relationship between cardiovascular system response and adrenocortical glucocorticoid function on exposure to diffuse, low-intensity helium-neon laser emission 17 p2741 N84-27405
Development of a multidetector deflection measurement system
[DE84-009703] 18 p2847 N84-28078
Fiber optic current probe
[DE84-007964] 19 p3105 N84-29729
Analysis of some aspects of mechanism of action of helium-neon laser 21 p3455 N84-31922

HELIX TUBES
U TRAVELING WAVE TUBES

HELIXES
U CURVES (GEOMETRY)

HELMET MOUNTED DISPLAYS
Manufacturing Methods and Technology (MM and T) specifications for miniature cathode ray tube
[AD-A131042] 01 p0072 N84-10468
The effects of character stroke width on the visibility of a head-coupled display
[AD-A132046] 04 p0484 N84-13183
A test of Fitts' law in two dimensions with hand and head movements
[AD-A133347] 07 p1051 N84-16810
An optical analysis of the Farrand VCASS (Visually Coupled Airborne Systems Simulator) helmet-mounted display
[AD-A136649] 10 p1430 N84-19350
Design criteria for reducing popping in area-of-interest displays: Preliminary experiments
[AD-A136789] 10 p1430 N84-19351
Nonlinear prediction of head movements for helmet-mounted displays
[AD-A136590] 10 p1555 N84-20192
Investigation of interactions between helmet-mounted sight/display, sensor platform and human pilot
[ESA-TT-746] 16 p2539 N84-26299
Fiber optic helmet mounted display: A cost effective approach to full visual flight simulation
[AD-P003482] 21 p3512 N84-32249

HELMETS
Simulation of cerebrocranial trauma for evaluation and development of gear to protect pilots against impacts 02 p0259 N84-11695
Technique for measuring the sound pressure levels under flying helmets and headsets
[IZF-1982-39] 02 p0269 N84-11785
Manufacturing Methods and Technology (MM and T) specifications for miniature cathode ray tube
[AD-A132797] 05 p0675 N84-14439
Impact response of an energy absorbing earcup
[AD-A134828] 08 p1205 N84-17860
Report on study trip to France, 28 June-9 July 1983 — protective clothing of flight crews
[FOA-C-59007-H1] 10 p1555 N84-20193
Comparison of real-ear attenuation characteristics of the standard SPH-4 earcup and a prototype crushable earcup
[AD-A138042] 12 p1868 N84-22171
Comparative investigation of the sound attenuation of four types of flyer helmets
[IZF-1983-7] 12 p1899 N84-22370
Weathering trials and new rigidity tests on protective helmets for motor cyclists
[ARL-STRUC-TECH-MEMO-372] 15 p2300 N84-24804
Active noise reduction
[AD-A139741] 15 p2404 N84-25428
Energy-absorbing earcup engineering feasibility evaluation
[AD-A144179] 24 p3938 N84-34924

HELMHOLTZ EQUATIONS
Volume integrals associated with the inhomogeneous Helmholtz equation. Part 1: Ellipsoidal region
[NASA-CR-3749] 05 p0689 N84-14525
Volume integrals associated with the inhomogeneous Helmholtz equation. Part 2: Cylindrical region; rectangular region
[NASA-CR-3750] 05 p0689 N84-14526
Conjugate gradient coupled with multigrid for an indefinite problem
[NASA-CR-172379] 19 p3082 N84-29558
On accuracy conditions for the numerical computation of waves
[NASA-CR-172433] 22 p3645 N84-33111

HELMHOLTZ RESONATORS
Acoustic ground impedance meter
[NASA-CASE-LAR-12995-1] 13 p1993 N84-22933

HELMHOLTZ VORTICITY EQUATION
Elliptic solvers for NORDA ocean models and a quasi-geostrophic regional eddy-mean energetics package
[AD-A133754] 06 p0684 N84-15751
Vortex motion in a precombustion chamber with intersecting jets
[AD-A139040] 13 p1958 N84-22717
Observation of surface-enhanced Raman scattering for transition-metal hexaammine cations at the outer Helmholtz plane: Implications for enhancement mechanisms at electrochemical interfaces
[AD-A139045] 13 p1958 N84-22719
Numerical diffraction by a uniform grid
[DE84-012861] 22 p3646 N84-33121

HELOS (SATELLITE)
U EXOSAT SATELLITE

HEMATOLOGY
Regulation of hematopoiesis in the suspended rat as a model for space flight 09 p1355 N84-18856
Hematologic and biochemical data on healthy individuals participating in a physical conditioning program
[AD-A140464] 16 p2536 N84-26278
The effects of nonphysiological oxygen supply on the organism 17 p2745 N84-27428
Effects of long-term low-level radiofrequency radiation exposure on rats. Volume 6: Hematological, serum chemistry, thyroxine, and protein electrophoresis evaluations
[AD-A141124] 19 p3083 N84-29434
Effects of microwaves on cell membrane permeability
[AD-A142979] 21 p3453 N84-31913

HEMATOPOIESIS
Regulation of hematopoiesis in the suspended rat as a model for space flight 09 p1355 N84-18656
HEMATOPOIETIC SYSTEM
Correlation between plasma fibronectin level and mortality following experimental rats heat stress [AD-A143385] 22 p3628 N84-32991
HEMISPHERE CYLINDER BODIES
Millimeter wave guiding structures and antennas [AD-A133528] 06 p0825 N84-15376
HEMODYNAMIC RESPONSES
Hemodynamic reactions to positive intrathoracic pressure at +G sub z accelerations 02 p0259 N84-11698
Value of the tilt table in the exploration of circulatory function 11 p1701 N84-21095
Value of the lower body negative pressure test in aerospace medicine 11 p1701 N84-21096
Methods and major findings of cardiovascular exploration involving the human centrifuge 11 p1701 N84-21097
Changes in arterial pressure in static work as function of time of day and degree of disturbance in Earth's magnetic field 21 p3456 N84-31930
HEMODYNAMICS
NT LOWER BODY NEGATIVE PRESSURE
Evaluation of some hemodynamic parameters of pilots during flights 15 p2376 N84-25256
USSR report: Space Biology and Aerospace Medicine, vol. 18, no. 3, May - June 1984 [JPRS-USB-84-005] 20 p3252 N84-30642
Walking erect as a factor in development of arterial hypertension in primates 20 p3253 N84-30645
Effect of dihydroergotamine on human circulation during orthostatic tests 20 p3253 N84-30646
Circulatory changes in orthostatic position in the presence of hyperthermia 20 p3253 N84-30647
Link between indexes for mental work capacity and parameters in circulatory system before and after physical stress 21 p3455 N84-31925
HEMOGLOBIN
The effects of nonphysiological oxygen supply on the organism 17 p2745 N84-27428
Effects of radiofrequency radiation on differentiation of erythroleukemic cells [AD-A143038] 21 p3453 N84-31914
Oxygen affinity of hemoglobin, 3 hours after passive increase in altitude from 400 to 1800 metres [RAE-TRANS-2118] 22 p3630 N84-33004
HEMOLYSIS
Use of radial hemolysis method in gel for detection of antibodies to Bunya virus Lednice (Turlock virus group) 17 p2741 N84-27403
HEMOSTASIS
U HEMOSTATICS
HEMOSTATICS
Fibrinogen, plasminogen and tissue-type plasminogen activator: Their role in the fibinolytic system 23 p3804 N84-34121
HENRY LAW
Review of hydrogen isotope permeability through materials [DE84-007362] 12 p1794 N84-21696
HEPTANES
Spontaneous ignition characteristics of gaseous hydrocarbon-air mixtures 11 p1613 N84-20557
HERBICIDES
Aquatic plant control research program. Effects of endothall treatment on phosphorus concentration and community metabolism of aquatic communities [AD-A141830] 18 p3052 N84-29370
HERCULES AIRCRAFT
U C-130 AIRCRAFT
HERMETIC SEALS
Thermal stress analysis of annular glass-to-metal seals under thermal shock 03 p0370 N84-12408
Fabrication of a hermetically sealed connector [DE84-002322] 06 p0830 N84-15402
Nickel cadmium cell SD 15 K, qualification and operation of a modularized battery 50 Ah, 100 v [BMFT-FB-W-83-030] 10 p1488 N84-19728
Hermetic single longitudinal mode CW lasers coupled to single mode optical fiber pigtails [AD-A143626] 23 p3754 N84-33792
HERMITIAN POLYNOMIAL
Aspects of second- and third-order panel methods demonstrated for the two-dimensional flat plate problem [NLR-TR-81074-U] 03 p0373 N84-12433
Use of the Bernstein form to derive sufficient conditions for shape preserving piecewise polynomial interpolation [DE84-003914] 08 p1221 N84-17972
On the generation of infinite dimensional bilinear systems and Volterra series [RR-228] 14 p2219 N84-24318
A new 48 D.O.F. quadrilateral shell element with variable-order polynomial and rational B-spline geometries with rigid body modes 17 p2678 N84-27058
HERTZSPRUNG-RUSSELL DIAGRAM
Comparisons between observational color-magnitude diagrams and synthetic cluster diagrams for young star clusters in the Magellanic Clouds [DE84-001870] 07 p1089 N84-17085
Constraints on stellar evolution from pulsations [DE84-003787] 09 p1415 N84-19261
HETEROCYCLIC COMPOUNDS
NT ADENOSINE TRIPHOSPHATE
NT ALKALOIDS
NT ATROPINE
NT AZINES
NT AZOLES
NT CARBAZOLES
NT ERGOTAMINE
NT FURANS
NT MORPHINE
NT PHTHALOCYANIN
NT PYRROLES
NT RDX
NT TETRAHYDROFURAN
NT TETRAZOLES
NT THIAZINE (TRADEMARK)
NT TOCOPHEROL
NT TRYPTOPHAN
NT URACIL
Electroactive heterocyclic polymers [DE83-013592] 02 p0200 N84-11305
Model compound studies of rigid rod aromatic heterocyclic polymer systems, the X-ray crystal structure of 2,6-diphenylbenzo (1,2-d; 5,4-d') diimidazole tetrahydrate, C2OH14N4. 4H2O, a model system for the study of polymer-water interaction in polybenzimidazoles [AD-A135278] 08 p1137 N84-17393
Polymerization of 3-methyl-2,5-Dibromothiophene utilizing n-butyl lithium and Copper(II) chloride [AD-A136955] 10 p1468 N84-19585
Synthesis and properties of phenylated aromatic heterocyclic imide and thiazole polymers containing pendant diphenylether and diphenylsulfide groups [AD-A140341] 16 p2472 N84-25844
Synthesis of polyheteroarylenes for highly heat-resistant materials [AD-A140610] 17 p2626 N84-26804
Surface-Enhanced Raman Scattering for redox-active adsorbates: Pentaammineosmium (3)/(2) and Pentaammineruthenium (2) containing nitrogen heterocycle ligands [AD-A142418] 20 p3148 N84-29967
Ultraviolet light absorbers having 2 different chromophors in the same molecule [DE84-011279] 20 p3150 N84-30000
HETERODYNING
NT OPTICAL HETERODYNING
Experimental and theoretical analysis of the relation between received signal power and signal to noise ratio of a heterodyne laser detection system [PHL-1983-02] 02 p0228 N84-11495
Pulse signals in heterodyne and homodyne detection [ESA-TT-809] 03 p0362 N84-12357
Pulsed heterodyne CO2 laser/scanner system. Volume 1: Assembly report [AD-A135059] 08 p1164 N84-17577
Pulsed heterodyne CO2 laser/scanner system. Volume 2: Operating instructions [AD-A135060] 08 p1164 N84-17578
Pulse heterodyne equipment for measurements of range and velocity of moving targets — pulse radar [DFVLR-FB-83-18] 10 p1483 N84-19696
The design and development of a solar tracking unit 15 p2348 N84-25090
Stable heterodyning system in RT-22 radio telescope for millimetric-wave spectroscopy 17 p2630 N84-26827
High-sensitivity correlation receiver for radio interferometry 18 p2823 N84-27924
Development of long wavelength semiconductor diode lasers near 28 microns for use in infrared heterodyne spectrometers [NASA-CR-175253] 22 p3600 N84-32802
HETEROGENEITY
The effect of technological parameters on the heterogeneity of continuously cast slab [BLL-M-35095-(5828.4)] 01 p0042 N84-10271
The heterogeneous nucleation of ice I 06 p0817 N84-15325
Lateral heterogeneity and azimuthal anistropy of the upper mantle: Love and Rayleigh waves 100-250 sec [NASA-CR-174619] 06 p0878 N84-15710
Influences on group productivity. 2: Factors inherent in the person. A bibliographic synopsis [AD-A131015] 06 p0891 N84-15790
Theoretical studies on heterogeneous combustion [DE84-003178] 07 p0971 N84-16289
Alkali doping heterogeneous catalysts [BMFT-FB-T-83-174] 07 p0973 N84-16303
Structure and characteristics of heterogeneous detonation [AD-A134492] 07 p1002 N84-16497
Signal detection for same-shape families of non-homogeneous Poisson processes [AD-A135032] 08 p1217 N84-17942
Surface ignition and heterogeneous catalysis of hydrocarbon fuels [AD-A138214] 12 p1792 N84-21686
Velocities of guided ultrasonic waves in heterogeneous medium [NASA-TM-77445] 14 p2221 N84-24325
Variance-covariance components estimation by the adjustment of heterogeneous repetition measurements [SER-C-282] 16 p2547 N84-26346
Effects of lateral heterogeneities on the propagation, scattering, and attenuation of the seismic waves and the characterization of the seismic source [AD-A140595] 17 p2727 N84-27359
Theory of laser-induced surface chemistry with applications to microelectronics and heterogeneous catalysis [AD-A141832] 19 p2989 N84-28938
The effect of point-spread function interaction with radiance from heterogeneous scenes on multitemporal signature analysis — soybean stress 20 p3211 N84-30400
Distribution of micro-heterogeneous deformation in O8Yu steel around inclusions during compression [BLL-M-35641-(5828.4)] 22 p3553 N84-32498
The proximity effects of superconducting multilayer film [AD-A143255] 22 p3662 N84-33217
Study of superfine interactions in amorphous chromium-containing alloys by Mossbauer spectroscopy 24 p3877 N84-34585
Analysis of combustion oscillations in heterogeneous systems [AD-A144436] 24 p3880 N84-34583
HETEROJUNCTION DEVICES
A study of heterojunction solar cells based on n-CdS and several P-type semiconductors 11 p1672 N84-20814
Influence of the interfacial layer on electrooptical properties of heterojunction solar cells [DE84-013285] 22 p3618 N84-32925
HETEROJUNCTIONS
Electronic properties of semiconductor interfaces [AD-A130745] 01 p0152 N84-11002
Liquid phase epitaxy of InP/In1-xGxAsyP1-y heterostructures. Part 3: Phase diagrams [FI-65-TBR-20-PT-3] 03 p0456 N84-13000
Studies of the electronic properties of two-dimensionally confined carriers in MIS (Metal-Insulator-Semiconductor) Inversion/Accumulation layers, heterojunctions and quantum wells [AD-A134094] 05 p0752 N84-14935
Microscopic study of semiconductor heterojunctions 05 p0757 N84-14962
Heterojunction solid-state devices for millimeter-wave sources [AD-A135389] 08 p1151 N84-17490
Development of a planar heterojunction bipolar transistor for very high speed logic [AD-A136341] 09 p1306 N84-18539
Theoretical and experimental investigation of heterojunction interfaces [AD-A135896] 09 p1395 N84-19111
Low cost, sprayed CuInSe2 solar cell research [DE84-005339] 10 p1530 N84-20023
Deep traps in AlGaAs layers at AlGaAs-GaAs interfaces [DE84-005234] 11 p1745 N84-21387
Two-dimensional impurity bands at semiconductor hetero-structure interfaces [INPE-2996-PRE/448] 12 p1912 N84-22456
Calculations of misfit dislocation and dangling bond densities in abrupt Hg sub (1-x) Cd sub x Te heterojunctions [AD-A138241] 12 p1914 N84-22467
Characterization of single crystal Cu/sub 2S/CdS heterojunctions by hing resolution electron microscopy [DE84-006761] 13 p2048 N84-23287
Solar cell characterization by photocapacitance [DE84-008215] 14 p2143 N84-23849
Microcrystalline silicon growth for heterojunction solar cells [NASA-CR-173751] 18 p2869 N84-28215
Irradiation of optimized, MBE grown, AlGaAs radiation hardened photodiode [DE84-008034] 21 p3504 N84-32208

Schottky barrier and homojunction gallium arsenide solar cells
22 p3615 N84-32907
CdS/CuInSe2 heterojunction cell research
[DE84-004508] 22 p3618 N84-32926

HEURISTIC METHODS
The GIST behavior explainer
[AD-A130730] 01 p0122 N84-10793
Proof-checking, theorem proving and program verification
[AD-A130838] 01 p0123 N84-10799
A fast heuristic based on spacefilling curves for minimum-weight matching in the plane
[AD-A129857] 01 p0129 N84-10846
Model Statement Language/analyzer (MSL/MSA): A top-down Problem Statement Language/analyzer (PSL/PSA) approach for the user dialogue in decision support systems
[AD-A132273] 04 p0580 N84-13829
On bisecting random graphs
[AD-A132500] 04 p0589 N84-13892
Communications network design and costing model technical manual
[NASA-CR-166236] 05 p0666 N84-14376
Hypothesizing channels through free-space in solving the findpath problem
[AD-A133632] 05 p0732 N84-14810
Myopic heuristics for the weighted tardiness problem on identical parallel machines
[AD-A134934] 08 p1216 N84-17934
A framework for solving VLSI (Very Large Scale Integration) graph layout problems
[AD-A136143] 09 p1378 N84-19003
Integrating multi-objective optimization methodologies in BMD technology
[AD-A136161] 09 p1383 N84-19036
Decision theory: Individual biases and their effect on forecasting in an organization
[AD-A137943] 11 p1746 N84-21395
Designing efficient communication networks
[AD-A139190] 14 p2202 N84-24219
Computer aided layout of procedure information for training and job aiding
[AD-A139347] 14 p2205 N84-24236
Bounds on network reliability
16 p2552 N84-26371
Corrected diffusion approximations to first passage times
[AD-A140940] 18 p2925 N84-28548
Multi-variate acceptance plans for flexible airport pavements
21 p3345 N84-31220
Computer aided ultrasonic testing
[CETIM-15-H-404] 21 p3416 N84-31661
A physical database design methodology using the property of separability
21 p3517 N84-32281
Artificial intelligence theory and reconfigurable control systems
[AD-A143766] 23 p3817 N84-34203
Worst case performance of some heuristics for lot size problems
[INPE-3134-PRE/525] 23 p3817 N84-34205
A heuristic method for the problem of the distribution of perishable cargos
[INPE-3133-PRE/524] 23 p3832 N84-34309
Research on parallelism in problem-solving systems
[AD-A144414] 24 p3954 N84-35036

HEWLETT-PACKARD COMPUTERS
Computer graphics hardware and software of the HP 1000F system
[IFSI-82-8] 05 p0720 N84-14720
Description of the general utility graphic routines of the HP 1000 F IFSI
[IFSI-83-15] 18 p2922 N84-28534
Automation assisted gathering, processing, and representation of topographic data for the production of the German basic map 1:5000 - height in Lower Saxony
20 p3226 N84-30500

HEXAGONS
Aperture efficiency considerations in the convolution synthesis of symmetrical hexagonal arrays
[AD-A133367] 06 p0824 N84-15369

HF LASERS
Saturation processes in doppler-broadened HF vibrational transitions
[AD-A134282] 07 p1009 N84-16546
Modeling study of a CW HF resonance transfer laser medium
[AD-A134866] 08 p1164 N84-17580
Temporal measurement of spectrally resolved output of multiline HF lasers
[AD-A137983] 12 p1819 N84-21859
Pulsed D2-F2 chain-laser damage to coated window and mirror components
[AD-A138911] 13 p1995 N84-22950
Deactivation of higher vibrational levels of HF by F atoms
[AD-A140853] 17 p2673 N84-27034
Computer modeling of pulsed chemical lasers
[AD-A141889] 19 p3029 N84-29212
Time-dependent oscillations in a CW HF chemical laser unstable resonator
[AD-A142966] 21 p3409 N84-31622
Pulsed hydrogen-fluoride laser
[MRL-R-831] 22 p3600 N84-32803
CW HF R-branch laser
[AD-D011120] 22 p3601 N84-32813
Small continuous wave (CW) HF chemical laser
[AD-A144322] 24 p3908 N84-34756
Parametric characteristics of an electrically initiated HF laser
[AD-A144324] 24 p3908 N84-34757

HFIR
U HIGH FLUX ISOTOPE REACTORS

HFIR (REACTOR)
U HIGH FLUX ISOTOPE REACTORS

HIBERNATION
Gypsy moths and American dog ticks: Space partners
18 p2800 N84-27768

HIERARCHIES
NT BBGKY HIERARCHY
Research initiation: Aggregated hierarchical control
[PB83-226761] 01 p0135 N84-10887
Disjunctive programming and a hierarchy of relaxations for discrete optimization problems
[AD-A132004] 03 p0425 N84-12784
The linear hierarchical model and its application in the econometric analysis
[CSIR-TWISK-274] 04 p0587 N84-13875
Hierarchical database decomposition: A technique for database concurrency control
[AD-A134356] 07 p1084 N84-17052
Application of hierarchical data structures to geographical information systems
[AD-A134999] 08 p1177 N84-17670
Partially ordered computations with applications to VLSI design
08 p1208 N84-17880
Hierarchical cache accumulators for sequential mode estimation
[AD-A134698] 08 p1212 N84-17908
Automated hierarchical to CODASYL (Conference On Data Systems Languages) database interface schema translator
[AD-A138012] 12 p1918 N84-22496
Dynamic, hierarchical decision problems
[AD-P002912] 13 p1981 N84-22863
The simple roots of real-time computation hierarchies (preliminary version)
[MC-IW-244/83] 13 p2035 N84-23203
Relations among system diagnosis models with 3-valued test outcomes
[AD-P002374] 14 p2195 N84-24165
The hierarchical specification and mechanical verification of the SIFT design
15 p2386 N84-25310
A summary of HDM
15 p2386 N84-25312
The PASCAL-HDM verification system
15 p2386 N84-25314
HDM/PASCAL verification system user's manual
15 p2387 N84-25315
Optimization methods in hierarchical holographic modeling
16 p2494 N84-26001
DISCRIM: A modification of TWINSPAN (Hill, 1979) to construct simple discriminant functions and to classify attributes, given a hierarchial classification of samples
17 p2756 N84-27493
Differential weights for samples and attributes in the ordination program DECORANA and the classification program TWINSPAN (Hill, 1979)
17 p2756 N84-27494
An analysis of relationships among size, technology and structure in a contextually limited setting
17 p2771 N84-27597
Aerospace engineering design by systematic decomposition and multilevel optimization
[NASA-TM-85823] 19 p2962 N84-28775
Evidence accumulation for spatial reasoning
[AD-A142174] 19 p3042 N84-29302
A new approach to database logic
[AD-A141130] 19 p3115 N84-29795
Continuation of research in computer simulation of integrated circuits
[AD-A143005] 21 p3465 N84-31970
One method of assessing the validity of organizational-systems modelling
[BLL-M-35605-(5828.4)] 21 p3508 N84-32222
Source hierarchy list. Volume 1: A through H
[AD-A143500] 22 p3674 N84-33291
Source hierarchy list. Volume 2: I through Z
[AD-A143501] 22 p3674 N84-33292
Hierarchical planning systems applied to production: A study
[INPE-3147-PRE/531] 23 p3833 N84-34314
Hierarchical multisensor image understanding
[AD-A144593] 24 p3898 N84-34688

HIGH ACCELERATION
Homeostasis in primates in hyperacceleration fields
09 p1354 N84-18852

HIGH ALTITUDE
Numerical simulation of spacecraft charging phenomena at high altitude
[AD-A130043] 01 p0028 N84-10178
Physical and computer modeling of military earth grounding practices in a HEMP (High-Altitude Electromagnetic Pulse) environment
[AD-A130141] 01 p0070 N84-10454
Controlling emissions from light-duty motor vehicles at high elevations. A report to Congress
[PB83-204883] 01 p0164 N84-11074
Evaluation of controlling low altitude aerial photography using high altitude aerotriangulation
02 p0234 N84-11539
High-latitude and equatorial research support for predicting high-altitude nuclear effects
[AD-A131431] 02 p0249 N84-11630
Design considerations for remotely piloted, high-altitude airplanes powered by microwave energy
[NASA-TM-85730] 06 p0786 N84-15145
High altitude aerodynamic platform concept evaluation and prototype engine testing
[NASA-TM-58256] 07 p0953 N84-16182
A study of low energy electron precipitations and auroral phenomena by using the USAF polar orbiting satellites
[AD-A137888] 11 p1682 N84-20979
Work at high altitude: A clinical and physiological study at the United Kingdom Infrared Telescope, Mauna Kea, Hawaii
[REPT-11] 12 p1864 N84-22147
Skeletal muscle metabolism of sea-level natives following short-term high-altitude residence
[AD-A139323] 15 p2360 N84-25284
Structural sizing of a solar powered aircraft
[NASA-CR-172313] 16 p2448 N84-25702
The NESDIS-SEL Lear aircraft instruments and data recording system
[NOAA-TR-NESDIS-9] 17 p2607 N84-26696
Parachute descent from altitude 5000 to 7000 meters
[FOA-C-59006-H1] 19 p2959 N84-28756
Improving the efficiency of smaller transport aircraft
[NASA-TM-85992] 19 p2963 N84-28780
The influence of cardiorespiratory fitness on the decrement in maximal aerobic power at high altitude
[AD-A142218] 19 p3066 N84-29452
Calculation of high altitude electromagnetic pulses due to X and gamma photons
[SNIAS-841-422-106] 21 p3388 N84-31504
Nighttime observations of thunderstorm electrical activity from a high altitude airplane
[NASA-TM-86455] 21 p3405 N84-31597
Investigation of the external flow analysis for density measurements at high altitude — shuttle upper atmosphere mass spectrometer experiment
[NASA-CR-173861] 22 p3530 N84-32352
Nighttime observations of thunderstorm electrical activity from a high altitude airplane
24 p3926 N84-34853
The study of peculiarities of the energy spectrum of low energy electrons in the lower atmosphere
24 p3993 N84-35273

HIGH ALTITUDE BALLOONS
Thin film strain transducer — in-flight monitoring of balloon film strain
[US-PATENT-APPL-SN-526770]
03 p0376 N84-12448
Results of the 1983 NASA/JPL balloon flight solar cell calibration program
[NASA-CR-173465] 12 p1779 N84-21609
Balloon materials degradation (S1006)
15 p2273 N84-24646
Thin film strain transducer
[NASA-CASE-WLP-10055-1] 18 p2838 N84-28015
Balloon test project: Cosmic Ray Antimatter Calorimeter (CRAC)
[NASA-TM-77461] 23 p3750 N84-33772

HIGH ALTITUDE BREATHING
Increased metabolism and dead space as components of ventilation at high altitude
[AD-A130827] 06 p0887 N84-15766
Variable inhibition by falling CO2 of hypoxic ventilatory response in man
[AD-A130658] 06 p0887 N84-15768
Ventilation and ventilatory control in high altitude pulmonary edema and acute mountain sickness
[AD-A135941] 10 p1548 N84-20145
Mental performance in mild oxygen deficiency
[IAM-409] 17 p2746 N84-27433
Individual distinctions of human sleeping respiration at altitude of 4200 meters
20 p3256 N84-30663

HIGH ALTITUDE ENVIRONMENTS
Fluid intake at high altitudes
07 p1044 N84-16772

Theory and modeling of atmospheric turbulence, part 1
[NASA-CR-3787] 09 p1348 N84-18805
A thermal vacuum issue for the screening of space materials
[ESA-PSS-01-702-ISSUE-1] 16 p2500 N84-26043
Problems and perspectives of Alpine work physiology 18 p2895 N84-28370
Use of vitamins during adaptation to high altitudes 20 p3252 N84-30643

HIGH ALTITUDE FLIGHT
U FLIGHT
U HIGH ALTITUDE

HIGH ALTITUDE TESTS
Anthropometric changes at high altitude
[AD-A140311] 16 p2535 N84-26277
Plasma processes caused by an electron beam injected from a high altitude rocket probe. Part 2: Studies of beam-plasma discharge
[IWF-8303] 17 p2728 N84-27364
Contributions to imaging quality and heighting accuracy of aerial cameras used at fairly high altitudes 19 p3040 N84-29264

HIGH ASPECT RATIO
Aeroelastic tailoring of high-aspect-ratio composite wings in the transonic regime 02 p0170 N84-11119
Results of design studies and wind tunnel tests of an advanced high lift system for an Energy Efficient Transport
[NASA-CR-159389] 23 p3693 N84-33403

HIGH ASPECT RATIO WINGS
U SLENDER WINGS

HIGH CURRENT
Electrical design of a high current density air-core reversed-field pinch ZTP
[DE84-004321] 10 p1586 N84-20395
Deep traps in AlGaAs layers at AlGaAs-GaAs interfaces
[DE84-005234] 11 p1745 N84-21387
Flux diffusion and acceleration in a high current modified betatron
[AD-A141277] 18 p2931 N84-28584
High current induction accelerators
[AD-A142303] 19 p3102 N84-29703
Diagnostics of a high current capillary discharge
[DE84-011369] 20 p3179 N84-30194
Longitudinal and transverse instabilities in a high current modified betatron electron accelerator
[AD-A142822] 21 p3493 N84-32132
Anodic dissolution of transition metal carbides at high current density 24 p3877 N84-34566

HIGH DISPERSION SPECTROGRAPHS
Operation of a high-P/sub T spectrometer arm at 10/sup 33 cm-2 sec-1 with particle identification 06 p0913 N84-15937

HIGH ECCENTRIC LUNAR OCCULTATION SATELLITE
U EXOSAT SATELLITE

HIGH ENERGY ASTRONOMY OBSERVATORIES
U HEAO

HIGH ENERGY ASTRONOMY OBSERVATORY A
U HEAO 1

HIGH ENERGY ASTRONOMY OBSERVATORY B
U HEAO 2

HIGH ENERGY ASTRONOMY OBSERVATORY 1
U HEAO 1

HIGH ENERGY ASTRONOMY OBSERVATORY 2
U HEAO 2

HIGH ENERGY ELECTRONS
NT RELATIVISTIC ELECTRON BEAMS
Rapid energization of electrons in a critical velocity discharge experiment
[TRITA-EPP-83-02] 02 p0297 N84-11947
Medium energy gamma rays from the galactic center region 04 p0822 N84-14100
Dynamically accelerated superthermal electrons in microwave plasma interaction
[IPPJ-648] 10 p1580 N84-20354
Plasma simulation studies of electron acceleration for beat wave and single frequency-laser heating schemes
[DE84-009968] 20 p3305 N84-30962
Cyclotron resonant scattering of energetic electrons by electromagnetic waves in the magnetosphere 22 p3621 N84-32946

HIGH ENERGY FUELS
NRC survey on plasma physics and fluids fusion plasma confinement and heating. Chapter 8: Inertial confinement fusion
[AD-A142302] 19 p3107 N84-29744

HIGH ENERGY INTERACTIONS
NT STRONG INTERACTIONS (FIELD THEORY)
Very-high-energy nuclear physics
[DE83-013379] 01 p0146 N84-10957
Amplitude analysis of elastic p-p scattering at 6 GeV/c at all t's
[DE83-015875] 02 p0291 N84-11909
From accelerators to storage rings to ?
[DE83-011849] 03 p0434 N84-12842
A thousand TeV in the center of mass: Introduction to high-energy storage rings
[DE83-015649] 03 p0435 N84-12855
Theory of elementary particles
[DE83-015904] 03 p0437 N84-12871
New facilities for the US high-energy physics program
[DE83-016589] 03 p0438 N84-12876
Low energy nuclear physics and accelerator development
[DE83-013384] 03 p0438 N84-12877
Physics at very high energies
[DE83-012854] 03 p0438 N84-12878
Effect of RF structure on cumulative beam breakup
[DE83-017302] 03 p0439 N84-12882
Longitudinal space-charge effects in bunched beams
[DE83-017305] 03 p0440 N84-12888
Energetic-particle stabilization of ballooning modes in Tokamaks
[DE83-016205] 04 p0609 N84-14020
Radiation damage in silicon detectors
[DE84-001460] 04 p0614 N84-14056
Monte Carlo simulation of high p/sub P jets 06 p0911 N84-15915
The problem of tracking charged particles in the cores of high energy jets in a high rate environment 06 p0911 N84-15916
Review of properties of various types of calorimeters: High luminosity and high energy 06 p0911 N84-15917
Trigger systems which could operate at a luminosity of 10/sup 33 cm(-2) to sec/sup -1 06 p0911 N84-15918
Angular coverage of detectors 06 p0914 N84-15940
The development and test of multi-anode microchannel array detector systems. 2: Soft X-ray detectors
[NASA-CR-173245] 07 p0996 N84-16457
Semiconductor drift chamber: An application of a novel charge transport scheme
[DE84-002875] 07 p1082 N84-17038
Activities in nuclear and high energy physics 08 p1231 N84-18043
Toroidal magnetic field system for 2-MA reversed-field pinch experiment
[DE84-004322] 10 p1586 N84-20399
Inelastic strong interactions at high energies
[DE84-005666] 11 p1745 N84-21388
Research in elementary particle physics
[DE84-006130] 12 p1903 N84-22392
Lateral dispersion of a high-energy ion beam in a scattering medium
[UTIAS-278] 14 p2222 N84-24331
High energy physics facilities
[GPO-30-261] 15 p2406 N84-25444
Report on the activities of the Space Science Department — ESA
[ESA-SP-1082] 17 p2774 N84-27611
Theoretical high energy physics research
[DE84-009785] 19 p3103 N84-29716
Indiana University Theoretical Particle Physics Group
[DE84-010593] 20 p3293 N84-30903
High energy nuclear structures
[DE84-010062] 20 p3299 N84-30947
Activities in nuclear and high energy physics
[B8467321] 20 p3299 N84-30949
Simulation of ultra-low emittance electron storage rings
[DE84-012050] 20 p3310 N84-31024
Theoretical high energy physics
[DE84-011854] 21 p3495 N84-32153
Influence of choice of pair-interaction potential on results of modelling an edge dislocation in Alpha-Iron
[BLL-M-35682-(5828.4)] 22 p3553 N84-32499
Future of high energy physics
[DE84-013513] 22 p3654 N84-33165
Activities in nuclear and high energy physics 23 p3824 N84-34250

HIGH FLUX ISOTOPE REACTORS
Microstructure of 9 Cr-1 MoVNb steel irradiated to 40 dpa at elevated temperatures in HFIR
[DE84-000339] 04 p0501 N84-13285
Fracture toughness of ferritic alloys irradiated in HFIR
[DE84-004594] 10 p1462 N84-19547

HIGH FREQUENCIES
Lightweight, high-frequency transformers 01 p0011 N84-10066
High-current, high-frequency capacitors 01 p0011 N84-10067
Coherent scattering of light into high frequency radiowaves
[AD-A130691] 01 p0066 N84-10431
Rays and modes on concave surfaces
[AD-A131411] 02 p0210 N84-11371
Efficiency of high-frequency ventilation as determined by nitrogen washouts: A model study
[AD-A131331] 02 p0265 N84-11745
Techniques for locating a remote HF transmitter from single-site measurements
[AD-A132014] 03 p0360 N84-12342
Holographic optical elements with ultra-high spatial frequencies
[AD-A132355] 04 p0538 N84-13537
The amplitude density function and high-resolution frequency analysis of time series
[AD-A132466] 04 p0592 N84-13906
The HF-enhanced plasma line 05 p0835 N84-14180
Confidence region for the evaluation of HF DF single site location systems
[AD-A133208] 06 p0785 N84-15140
F-region variability and HF-propagation 06 p0869 N84-15658
Determination of propagation limitations at HF by real-time update of a computer model from oblique sounder data 06 p0869 N84-15660
On the utilization of ionospheric diagnostics in the single-site location of HF emitters 06 p0870 N84-15661
Interpretation of near-source ground motion and implications 06 p0876 N84-15697
Meteor scatter communication in an air-ground environment
[AD-A135669] 09 p1301 N84-18506
Monolithic ZnO SAW (Surface Acoustic Waves) structures
[AD-A135967] 09 p1309 N84-18557
Ohmic heating of the polar f-region by HF (High Frequency) pulse
[AD-A135946] 09 p1345 N84-18789
High frequency acoustic instabilities in heated fluids
[DE84-005114] 10 p1575 N84-20324
Parametric analysis of hollow conductor parallel and coaxial transmission lines for high frequency space power distribution
[NASA-TM-83601] 11 p1625 N84-20639
Real-time update of 2 H. F. (High Frequency) channel evaluation models by oblique sounding
[AD-A137556] 11 p1643 N84-20739
Statistical analysis of high SCE frequency cells in human lymphocytes
[DE84-005433] 11 p1693 N84-21042
Air-to-ground HF (High Frequency) propagation prediction model for fast multicircuit computation
[PB84-145961] 12 p1810 N84-21802
Direct measurement of high frequency solid propellant response functions 13 p1945 N84-22649
Development of high frequency low weight power magnetics for aerospace power systems
[NASA-TM-83656] 13 p1986 N84-22892
Method of and apparatus for double-exposure holographic interferometry
[NASA-CASE-MFS-25405-1] 13 p1992 N84-22929
Preliminary report of HF (High-Frequency) radar measurements of surface currents East of the Strait of Gilbraltar near Marbella, Spain: October 7-22, 1982, part 1
[PB84-154244] 14 p2183 N84-24083
Photoacoustic imaging
[AD-A139298] 14 p2224 N84-24350
Growth rates of parametric instabilities driven by two pumps
[AD-A139463] 14 p2229 N84-24364
Prediction of field strengths near HF transmitters
[AD-B078278] 15 p2319 N84-24917
The relationship between strength of turbulence and backscattering radar power at HF and VHF 17 p2689 N84-27125
Mesopheric turbulence intensities measured with a HF radar at 35 deg S. Part 2 17 p2689 N84-27128
A statistical channel model for adaptive HF communications via a severely disturbed ionosphere
[AD-A141237] 18 p2829 N84-27960
Method for summing Gaussian beams in isotropic elasticity theory 18 p2862 N84-28171
HF omnidirectional spectral CW auroral radar (HF-OSCAR) at very high latitude. Part 1: Technique
[DMI-GEOPHYS-PAPERS-R-67] 19 p3010 N84-29079
An analysis of the high frequency vibrations in early Thematic Mapper scenes 20 p3210 N84-30395
Preliminary report of HF radar measurements of surface currents east of the Strait of Gibraltar near Marbella, Spain, 7-22 October 1982, part 2
[PB84-183864] 20 p3251 N84-30637
Realization of high-frequency filters according to theory of guided spherical waves 21 p3378 N84-31438
Experimental evaluation of a high frequency radio data terminal in the ship-shore mode
[CRC-1375] 21 p3382 N84-31458

Waveguide CO2 laser with 7.5 W power rating
21 p3487 N84-32096

High frequency radar software reference manual for product one
[PB84-194885] 22 p3578 N84-32665

Frequency correlation of HF skywave ground backscatter Doppler spectra
[PB84-204353] 22 p3578 N84-32668

Statistics at HF skywave ground backscatter Doppler spectra
[PB84-204973] 22 p3578 N84-32669

Detection of damage in hydraulic components by acoustic emission techniques
[AD-A143262] 22 p3607 N84-32850

High-frequency acoustic backscatter from the sea surface
[AD-A143536] 22 p3652 N84-33152

Device for high frequency arc welding
24 p3869 N84-34522

Nonlinear interaction of two noncollinear sound waves in a rectangular waveguide
[AD-A144440] 24 p3895 N84-34666

HIGH GAIN

Cathode driven high gain crossed-field amplifier
[AD-A133030] 05 p0676 N84-14441

Study of gain, bandwidth, and tunability of a millimeter-wave free-electron laser operating in the collective regime
[AD-A139285] 14 p2151 N84-23884

HIGH GRAVITY (ACCELERATION)

U HIGH GRAVITY ENVIRONMENTS

HIGH GRAVITY ENVIRONMENTS

Gravitational study of the central nervous system
02 p0263 N84-11730

Set-point changes in hierarchically-arranged thermogenic systems 09 p1355 N84-18853

Gravity, body mass and compoeition, and metabolic rate 09 p1355 N84-18854

Methods and major findings of cardiovascular exploration involving the human centrifuge
11 p1701 N84-21097

Mechaniams of thermoregulation of rats exposed to hypergravic fields 22 p3628 N84-32989

HIGH INTENSITY LASERS

U HIGH POWER LASERS

HIGH LATITUDES

U POLAR REGIONS

HIGH LEVEL LANGUAGES

NT ADA (PROGRAMMING LANGUAGE)

The GIST behavior explainer
[AD-A130730] 01 p0122 N84-10793

Directly executed languages
[AD-A130704] 01 p0122 N84-10794

High-level control programs at NSLS
[DE83-010935] 03 p0421 N84-12754

FORTH: An unconventional programming language
[INPE-2894-PRE/413] 04 p0578 N84-13813

Utilization of Ada as a program design language
[AD-A132244] 04 p0580 N84-13830

FASTBUS diagnostic language users manual, version 3(74)
[DE83-017932] 04 p0581 N84-13837

SISAL: Streams and Iteration in a Single-Assignment Language. Language reference manual, version 1.1
[DE83-016576] 04 p0582 N84-13843

Implementing an ADA kernel on NEBULA
[AD-A132745] 05 p0719 N84-14714

EDDA: A very high level data flow specification language 05 p0722 N84-14735

An interval logic for higher-level temporal reasoning
[NASA-CR-172262] 07 p1053 N84-16821

ATE, ATLAS and the microprocessor — automatic test equipment (ATE); abreviated test language for all systems (ATLAS) 08 p1207 N84-17872

Experience with a regular expression compiler
[AD-A135202] 08 p1209 N84-17888

Computer networks without a shared memory AFOSR-81-0197
[AD-A135074] 08 p1215 N84-17927

An image processing language
[AD-A135965] 09 p1368 N84-18928

AdaRel: A relational extension of Ada
[AD-A137108] 10 p1562 N84-20234

A fuzzy relational inference language for expert systems
[AD-P002380] 14 p2196 N84-24171

Space and time analysis in dynamic programming algorithms
[AD-P002963] 14 p2200 N84-24203

Development and investigation of a high level token passing module for local communication networks — microprocessors
[HMI-B-387] 15 p2322 N84-24941

Simulation algorithms for parallel processes — computerized simulation
[CSC-1023/00-FIN] 18 p2921 N84-28527

The evolution of the JOVIAL/J73 language from definition to use
[AD-P003518] 21 p3329 N84-31122

J73AVS: A JOVIAL J73 automated verification system
[AD-P003521] 21 p3329 N84-31125

JOVIAL language control procedures with a view toward Ada (Trademark)
[AD-P003522] 21 p3330 N84-31126

Feasibility assessment of JOVIAL to Ada (Trademark) translation
[AD-P003523] 21 p3330 N84-31127

Application of JOVIAL (J-73) to digital flight controls
[AD-P003525] 21 p3330 N84-31129

The NEBULA and MCF (Military Computer Family) standardization programs
[AD-P003531] 21 p3331 N84-31135

The impact of NEBULA, MCF (Military Computer Family), and Ada (Trademark) on real-time embedded computer systems
[AD-P003534] 21 p3331 N84-31138

PAS/NEB: A PASCAL language tool for the MCF (Military Computer Family)
[AD-P003535] 21 p3332 N84-31139

Ada (Trademark) as a program design language. A rational approach to transitioning industry to the world of Ada through a program design language criteria
[AD-P003556] 21 p3335 N84-31160

The KAPSE (Kernel Ada (Trademark) Programming Support Environment) interface team
[AD-P003557] 21 p3335 N84-31161

Proceedings of the 2nd AFSC (Air Force Systems Command) Avionics Standardization Conference. Volume 5: Tutorial: MIL-STD-1589 JOVIAL (J-73) high order language
[AD-A142780] 21 p3342 N84-31203

Proceedings of the 2nd AFSC (Air Force Systems Command) Avionics Standardization Conference. Volume 8: Tutorial: MIL-STD-1815 Ada high order language
[AD-A142783] 21 p3342 N84-31206

The Record of Electrical and Communication Engineering Conversazione, volume 53, no. 1, Jul. 1984
[ISSN-0385-7719] 22 p3563 N84-32565

On applications of a specification and description language NESDEL to communication protocols
22 p3563 N84-32567

High-level operations in nonprocedural programming languages
[AD-A143470] 22 p3640 N84-33078

US Army Ada training curriculum. Curriculum catalog, 1984
[AD-A144188] 24 p3945 N84-34978

HIGH MELTING COMPOUNDS

U REFRACTORY MATERIALS

HIGH PASS FILTERS

An active filter primer
[AD-A134838] 06 p1152 N84-17496

HIGH POLYMERS

European Scientific Notes, volume 37, number 8
[AD-A133938] 05 p0759 N84-14977

Fundamental research for production of high polymers on synthesis gas basis
[BMFT-FB-T-84-075] 19 p3001 N84-29016

HIGH POWER LASERS

NT NOVA LASER SYSTEM

NT SHIVA LASER SYSTEM

Aerodynamics of E-beam sustained discharges in flow
[AD-A130100] 01 p0141 N84-10926

High energy efficient solid state laser sources — slab geometry laser sources
[NASA-CR-174606] 04 p0539 N84-13548

Solar pumped laser
[NASA-CASE-LAR-12870-1] 07 p1009 N84-16542

Identification of new potential scientific and technology areas for DoD application. Summary of activities
[AD-A134372] 07 p1084 N84-17050

Insulator materials in high power lasers for inertial fusion: Present and future
[DE84-003738] 08 p1234 N84-18083

The Mark 3 linac as a high current source for FEL (Free Electron Lasers) experiments
[AD-A136312] 09 p1320 N84-18625

Development of CO2 and KrF gas lasers as drivers for inertial confinement fusion
[DE84-004329] 10 p1501 N84-19810

Theoretical and experimental investigations for the construction of a continuous, RF-excited waveguide CO2-laser with high frequency tunability and high output power
[IPF-83-1] 14 p2151 N84-23889

A parametric study of surface transformation hardening with high-power lasers
[AD-A140160] 16 p2497 N84-26023

High power fast pulse lasers
17 p2673 N84-27033

Enhanced tracking of airborne targets using multiple model filtering techniques for adaptive field of view expansion
[AD-A141144] 18 p2926 N84-28554

Technology development for tapered-wiggler free-electron lasers
[AD-A142319] 19 p3029 N84-29213

Investigation of sol-gel antireflection coatings
[DE84-008381] 19 p3030 N84-29218

Reflex ring laser amplifier system
[DE84-010674] 20 p3193 N84-30282

Nova laser alignment control system
[DE84-010992] 20 p3194 N84-30288

Eye safe laser transmitter
[AD-D011145] 22 p3597 N84-32779

Replication of high power laser mirrors
[AD-D011140] 22 p3656 N84-33177

Characterization of high powered laser diodes — spacecraft communication 24 p3904 N84-34728

HIGH PRESSURE

Pressure studies of organic superconductors
[DE83-015344] 01 p0155 N84-11021

High pressure equation of state of Li, Na and K
[DE83-014844] 02 p0191 N84-11238

Theory of the iron equation of state and melting curve to very high pressures
[DE83-015899] 02 p0196 N84-11274

The possibility of amplifying infrared radiation by high-pressure reacting gas
[AD-A131066] 03 p0440 N84-12890

Aluminum as a global high-pressure equation-of-state standard
[DE84-000153] 04 p0501 N84-13287

High pressure properties of solid alpha oxygen
05 p0757 N84-14963

Structural studies at elevated pressure and reduced temperatures using synchrotron radiation: Application to Ce.8La.1Th.1
[DE84-001793] 06 p0924 N84-16007

Rail accelerator development for ultra-high pressure research
[DE84-002452] 07 p0960 N84-16223

High-temperature, high-pressure optical cell
[NASA-CASE-MFS-26000-1] 07 p1075 N84-16986

Emission FTIR analyses of thin microscopic patches of jet fuel residue deposited on heated metal surface
[NASA-CR-168331] 08 p1139 N84-17410

Transient gas flow along single or bundled electrical cables surrounded by a permeable medium
[DE84-004791] 10 p1494 N84-19772

The preparation of BP single crystals by high pressure flux method
[NASA-TM-77389] 10 p1587 N84-20403

Mechanical and physical properties of poly(vinylidene fluoride) at high pressures and temperatures
[AD-A137842] 11 p1637 N84-20705

Structural phase transitions at high pressure: Quantum effects
[DE84-005724] 11 p1745 N84-21390

Strength of hard alloy elements of high pressure apparatus for synthesis of superhard materials
12 p1785 N84-21647

Thermal properties of binary aqueous solutions at high temperatures and high pressure
[BMFT-FB-T-83-217] 12 p1794 N84-21701

Cathode degradation and erosion in high pressure arc discharges
[NASA-TM-83638] 13 p1942 N84-22631

Investigation of combustion characteristics of a high chamber pressure rocket motor
13 p1952 N84-22693

High pressure melting and crystallization of Nylon-11
[AD-A138658] 13 p1964 N84-22760

Theoretical predictions for the phase stability of dense binary mixtures 13 p2072 N84-23428

Investigation of the effects of pressure gradient, temperature and wall temperature ratio on the stagnation point heat transfer for circular cylinders and gas turbine vanes
[NASA-CR-174667] 14 p2109 N84-23649

Scaling of the beam plasma discharge for low magnetic fields
[AD-A139415] 14 p2229 N84-24363

Investigations of the feasibility of fabric filters at high temperatures and pressures for an energy saving method of gas purification
[BMFT-FB-T-83-292] 15 p2286 N84-24718

Blast-wave analysis of high-pressure coupling shells
[AD-A139687] 15 p2350 N84-25108

Production of cubic crystalline boron nitride
[BMFT-FB-T-84-025] 16 p2471 N84-25836

Energy efficient engine high-pressure turbine supersonic cascade technology report
[NASA-CR-165567] 18 p2796 N84-27739

Developing new materials at elevated temperatures and pressures
[AD-A141235] 18 p2940 N84-28650
High pressure electron resonance studies of electronic, magnetic, and structural phase transitions
[DE84-006814] 18 p2941 N84-28653
Energy efficient engine high-pressure turbine detailed design report
[NASA-CR-165608] 19 p2965 N84-28788
Creep-rupture behavior of candidate Stirling engine iron superalloys in high-pressure hydrogen. Volume 2: Hydrogen creep-rupture behavior
[NASA-CR-174705] 19 p2992 N84-28961
Molecular order and solidification processes in organic liquids and solutions
[AD-A141777] 19 p3101 N84-29699
Kinetic processes in high pressure gases. Excited state collisions
[AD-A141927] 20 p3152 N84-30016
Phase and volumetric studies for methane/synthesis gas separations: The hydrogen-carbon monoxide-methane system
[PB84-214394] 21 p3375 N84-31417
Immediate effects of hyperbaric oxygenation on body oxygen supply 21 p3455 N84-31923
Anomalous pressure dependence of dipolar relaxation times in rare earth doped lead fluoride
[AD-A143201] 22 p3662 N84-33215
Spectroscopic research at high pressure and variable temperature
[AD-A143759] 23 p3713 N84-33537
High-pressure hydrogen testing of single crystal superalloys for advanced rocket engine turbopump turbine blades
[NASA-TM-86464] 23 p3717 N84-33563
Flow metering valve
[DE84-014249] 23 p3757 N84-33815
Evaluation of candidate Stirling engine heater tube alloys after 3500 hours exposure to high pressure doped hydrogen or helium
[NASA-TM-83782] 24 p3883 N84-34603

HIGH PRESSURE OXYGEN
High pressure properties of solid alpha oxygen 05 p0757 N84-14963
Explosion and fire hazards in an oil-oxygen system — of an airplane
[FOA-C-20507-D1] 08 p1101 N84-17159
Review of LOX Bearing and Seal Materials Tester (BSMT) radial load system
[NASA-CR-171162] 23 p3756 N84-33810

HIGH Q
U Q FACTORS

HIGH RESOLUTION
Positron spectroscopy applied to the analysis of surfaces
[DE82-006836] 01 p0038 N84-10238
Separation as asphaltenes using high-resolution supercritical-fluid chromatography 01 p0038 N84-10240
High resolution schemes and the entropy condition
[NASA-CR-172218] 01 p0128 N84-10836
Solar magnetic fields study
[AD-A130491] 01 p0166 N84-11088
High Resolution Imager (HRI) for the Roentgen Satellite (ROSAT) definition study
[NASA-CR-174598] 03 p0342 N84-12223
Snow characterization instruments
[AD-A131984] 03 p0411 N84-12687
The 88-inch cyclotron research program
[DE83-015827] 03 p0435 N84-12852
Spectroscopic measurements of solar wind generation 03 p0466 N84-13071
Computed survey spectra of 2-5 micron atmospheric absorption
[AD-A132526] 04 p0563 N84-13708
The amplitude density function and high-resolution frequency analysis of time series
[AD-A132466] 04 p0592 N84-13906
High resolution 3-d tomographic imaging by wavelength and polarization diversity
[AD-A134101] 05 p0747 N84-14903
High resolution ultraviolet laser spectroscopy of mercury and helium 06 p0800 N84-15214
The CARS spectroscopy in a supersonic jet 06 p0800 N84-15216
Experience in surface analysis applied to technical material problems 06 p0815 N84-15303
Design, construction, and use of a high-resolution, two-component LDA 06 p0833 N84-15419
High resolution X- and gamma-ray spectroscopy of solar flares
[NASA-CR-173150] 07 p1092 N84-17103
A test strategy for high resolution image scanners
[AD-A134998] 08 p1231 N84-18048
High resolution X- and gamma-ray spectroscopy of cosmic X-ray sources
[NASA-CR-175368] 08 p1246 N84-18148
Subsynoptic variations in SEASAT winds
[PB84-131697] 09 p1350 N84-18823
System for producing high-resolution polarized and unpolarized beams with a tandem accelerator
[DE84-004054] 09 p1388 N84-19063
New principle of array processing in underwater passive listening 09 p1401 N84-19152
High resolution spectrum analysis by dominant mode enhancement 09 p1401 N84-19153
Convergence of generalized MUSCL schemes
[NASA-CR-172306] 10 p1420 N84-19286
A high resolution solar atlas for fluorescence calculations
[NASA-CR-173366] 10 p1597 N84-20485
Development of a high resolution cylindrical crystal spectrometer for line shape and spectral diagnostics of X-rays emitted from hot-plasmas
[DE84-005664] 11 p1661 N84-20835
Water vapor profile retrieval simulation studies for the HIRS/MSU and AMTS/MSU sounders 12 p1851 N84-22058
High resolution GLAS on the MCIDAS 12 p1852 N84-22062
High resolution TEM studies of defects near Si-SiO/sub 2 interface
[DE84-006562] 12 p1915 N84-22480
High angular resolution microwave sensing with large, sparse, random arrays
[AD-A138717] 13 p1983 N84-22874
High resolution ultrasonic densitometer
[DE84-003387] 13 p1994 N84-22939
Characterization of single crystal Cu/sub 2S/CdS heterojunctions by hing resolution electron microscopy
[DE84-006761] 13 p2048 N84-23287
A normal incidence, high resolution X-ray telescope for solar coronal observations
[NASA-CR-173518] 13 p2070 N84-23412
Shock waves and mass outflow in the Orion molecular cloud: Observations of far-infrared emission lines of carbon monoxide, hydroxyl and ammonia 13 p2071 N84-23423
High-resolution color images of Io 13 p2075 N84-23446
Edge analyzing properties of center/surround response functions in cybernetic vision
[NASA-TM-85809] 16 p2484 N84-25927
Remote measurements of tropospheric aerosol scattering properties by an airborne high spectral resolution lidar 16 p2520 N84-26179
Crystallization of the glassy phase of grain boundaries in silicon nitride
[NASA-TM-77466] 16 p2560 N84-26421
Improved resolution rain measurements from spaceborne radar altimeters 17 p2716 N84-27290
An application of number theory to the organization of raster-graphics memory
[AD-A140638] 17 p2758 N84-27508
High resolution surface photometry of elliptical galaxies 17 p2776 N84-27625
High resolution bone mineral densitometry with a gamma camera
[NASA-TM-85386] 18 p2899 N84-28391
Microcomputer-based graphical linear programming package
[AD-A141094] 19 p3075 N84-29508
High resolution measurements of impurity-induced localized vibrational modes in semiconductors
[AD-A141577] 19 p3110 N84-29762
High resolution electron microscopy studies of the early stages of decomposition in alloys and ceramics
[DE84-020802] 20 p3163 N84-30087
High resolution, high rate X-ray spectrometer
[DE84-011116] 20 p3190 N84-30266
Measurements of high resolution spectra on the Omega laser at Rochester University
[DE84-012419] 20 p3195 N84-30290
Measurements of spatially resolved high resolution spectra of laser-produced plasmas
[DE84-012418] 20 p3305 N84-30995
High-resolution spectroscopy and dynamics of multiphoton processes in atoms and molecules
[AD-A143017] 21 p3359 N84-31303
Source of optical pumping for high-resolution spectroscopy with semiconductor laser 21 p3482 N84-32070
Synthetic aperture radar simulation
[AD-P003474] 21 p3512 N84-32246
Large Deployable Reflector Science and Technology Workshop. Volume 3: Systems and technology assessment. Conclusions 21 p3523 N84-32321
Highly sensitive high resolution Raman spectroscopy using resonant ionization methods
[DE84-012240] 22 p3548 N84-32460
Polynominal grating
[AD-D011090] 22 p3657 N84-33186
Photon correlation spectroscopy and applications 22 p3683 N84-33352
Monochromator for continuous spectrum X-ray radiation
[DE84-014239] 23 p3751 N84-33781
Correlation spectrometer having high resolution and multiplexing capability
[NASA-CASE-NPO-15558-1] 24 p3901 N84-34705

HIGH REYNOLDS NUMBER
High Reynolds number cylinder flow studies
[AD-A131116] 02 p0218 N84-11429
Operational experience with the National Transonic Facility 14 p2094 N84-23565
The European Transonic Windtunnel (ETW) 14 p2094 N84-23566
The 310 airbus test in the ONERA wind tunnel: Flight-wind tunnel comparison 14 p2098 N84-23587
The boundary layer on compressor cascade blades
[NASA-CR-173514] 15 p2332 N84-25001
An analytical study of a locally cooled high Reynolds number simulation technique
[AD-A141062] 19 p3023 N84-29170
Description and validation of the two dimensional test setup for multiple airfoils in the pressurized wind tunnel HST
[NLR-TR-83031-U] 20 p3132 N84-29892

HIGH SPEED
Aeroelastic considerations in the design of high speed rotors 02 p0171 N84-11128
Status of the SLAC SNOOP diagnostic module for FASTBUS
[DE83-012715] 02 p0290 N84-11903
Solar cycle variations of the solar wind 03 p0469 N84-13089
Douglas Aircraft Company Advanced Concept Ejection Seat (ACES 2), revision c
[AD-A133628] 05 p0628 N84-14131
High speed machining of space shuttle external tank liquid hydrogen barrel panel
[NASA-TM-82557] 05 p0662 N84-14352
A possible explanation for the present difference between linear noise theory and experimental data for supersonic helical tip speed propellers
[NASA-TM-83467] 05 p0742 N84-14874
Some comments on the hazards associated with manoeuvring flight in severe turbulence at high speed and low altitude 06 p0776 N84-15089
Characteristics of grindability of P/M high speed steel: Influence of peripheral wheel speed on wheel wear and surface quality 07 p0984 N84-16371
Computer programs for helicopter high speed flight analysis
[AD-A136376] 09 p1255 N84-18191
Magnetic bearing design for high speed momentum wheels 09 p1296 N84-18474
Stability of the FMIT high speed, free surface liquid jet flowing along a curved wall
[DE84-003856] 10 p1494 N84-19767
A high-speed data acquisition system for fluid mechanics measurements
[PB84-134592] 10 p1496 N84-19781
Dataflow computing approach in high-speed digital simulation
[NASA-CR-173552] 15 p2389 N84-25336
Goldstone R/D high speed data acquisition system 16 p2480 N84-25899
Demodulator and accumulator for the high-speed data acquisition system 16 p2480 N84-25900
Effect of outer race misalignment on the high speed performance of ball bearings
[NAL-TR-786] 16 p2498 N84-26028
Fast decoding of a d(min) = 6 RS code
[NASA-CR-173620] 16 p2544 N84-26326
An adaptive finite element method for high speed compressible flow
[NASA-CR-173443] 17 p2601 N84-26669
High speed ejectors
[AD-A141562] 18 p2796 N84-27741
Proceedings of the Flat-Plate Solar Array Project Research Forum on the High-Speed Growth and Characterization of Crystals for Solar Cells
[NASA-CR-173746] 18 p2935 N84-28614
High-speed growth of silicon crystals: Flat-plate solar array perspective 18 p2935 N84-28615
Overview of characterization techniques for high speed crystal growth 18 p2936 N84-28619
Use of the Burton-Prim-Slichter equation at high growth rates 18 p2936 N84-28622
High-speed noise of helicopter rotors 19 p3097 N84-29673
Hard Coatings for Tribological Systems Operating under Extreme Conditions
[DE84-009660] 21 p3368 N84-31369

High-speed thyristors on weakly doped GaAs
22 p3568 N84-32600
High-efficiency particulate air filter behavior at high-speed flows
[DE84-014137] 22 p3595 N84-32769
System for recording and input to computer of one-dimensional images of dim objects and high-speed processes 24 p3941 N84-34951

HIGH SPEED CAMERAS
NT FRAMING CAMERAS
Improvements to high speed rotating prism cameras including on board timing and event pulse generators
[MRL-TN-476] 06 p1161 N84-17557
Investigation of detonation chains. Part 13: Continuous measurement of the detonation velocity of pressed TNT using an ultrahigh speed camera
[PML-1982-3] 12 p1814 N84-21825
High speed photography and pulsed laser holography for diagnostic investigations of mixture formation and vibration in reciprocating engines
[DFVLR-MITT-83-18] 12 p1819 N84-21857
A triangulation technique for obtaining deflections of aircraft transparencies during bird impact testing
[AD-P003220] 17 p2595 N84-26633
Evaluation of optical data collection instrumentation in the desert environment
[AD-P003847] 24 p3939 N84-34934

HIGH SPEED FLIGHT
U FLIGHT
U HIGH SPEED

HIGH SPEED PHOTOGRAPHY
An investigation of experimental techniques for obtaining particulate behavior in metallized solid propellant combustion 13 p1947 N84-22659
Multiprofile-streak technique
[MBB-UA-776-83-O] 16 p2564 N84-26447

HIGH SPEED TRANSPORTATION
U RAPID TRANSIT SYSTEMS

HIGH STRENGTH
Development of high strength braze joints in beryllium
[DE84-007243] 13 p1998 N84-22984
Grain boundary engineering of mechanical strength of silicon nitride (Si3N4)
[NASA-TM-77433] 14 p2119 N84-23699
High-strength concrete for Peacekeeper facilities
[AD-A140510] 16 p2477 N84-25880
Windshield weight reduction through the use of high strength glass and polyurethane interlayers
[AD-P003186] 17 p2590 N84-26599
Development of lightweight commercial aircraft windshields with new high strength glasses
[AD-P003190] 17 p2590 N84-26603
Deformability and bearing strength of shells made on release mandrel 23 p3707 N84-33498

HIGH STRENGTH ALLOYS
NT ASTROLOY (TRADEMARK)
NT HIGH STRENGTH STEELS
NT MARAGING STEELS
Structures and properties of new types of cubical boron nitride
[CSIR-TRANS-1683] 01 p0030 N84-10190
Development of an alloy with high damping properties
[BLL-M-35211-(5828.4)] 01 p0041 N84-10260
The effects of powder metallurgical processing and intermediate thermal mechanical treatment on the fatigue properties of high strength aluminum alloys
[AD-A130790] 01 p0044 N84-10282
Thermal stability of four high-strength, high-conductivity copper sheet alloys
[DE83-013312] 01 p0045 N84-10288
Modelling particle - particle interaction at the micro scale
[AD-A133969] 05 p0744 N84-14885
The role of hydrogen in the stress corrosion failure of high strength Al-Zn-Mg alloys
[AD-A136212] 09 p1284 N84-18388
Statistical and vibratory fatigue limit characteristics of aluminum cast alloys 14 p2093 N84-23558
Draft standard method of test for plane-strain stress-corrosion-cracking resistance of metallic materials in marine environments
[AD-A139752] 15 p2297 N84-24785
T-38 student windshield birdproofing efforts utilizing metal and composite materials for aft arch reinforcement
[AD-P003189] 17 p2590 N84-26602
The use of novel processing procedures for improving the overall fatigue resistance of high strength aluminum alloys
[AD-A141107] 19 p2993 N84-29966
High-pressure hydrogen testing of single crystal superalloys for advanced rocket engine turbopump turbine blades
[NASA-TM-86464] 23 p3717 N84-33563
Ductile aluminide alloys for high temperature applications
[DE84-014317] 23 p3719 N84-33575
Fracture toughness of crystalline and composite superhard materials 24 p3868 N84-34516
Failure of aluminum alloy in the presplitting stage 24 p3874 N84-34549

HIGH STRENGTH STEELS
NT MARAGING STEELS
Experimental investigation of tearing-instability phenomena for structural materials
[DE83-900676] 01 p0097 N84-10629
Wide flanged beams with improved properties
[BMFT-FB-T-83-062] 02 p0197 N84-11283
An investigation into thermomechanical treatment by rolling of High Strength Low Alloy (HSLA) steels for improving their mechanical and technological properties
[BMFT-FB-T-83-083] 02 p0197 N84-11284
High strength powder metal (PM) steels by liquid phase sintering
[BMFT-FB-T-83-139] 02 p0198 N84-11287
Magnetic properties of iron and low-carbon steel for soft magnet application
[AD-A134120] 05 p0853 N84-14292
International Conference on Recent Developments in Specialty Steels and Hard Materials 08 p1130 N84-17348
Fatigue life analysis and tensile overload effects with high strength steel notched specimens
[AD-A136065] 09 p1284 N84-18384
Effects of preheat on weldments of NICOP steel
[AD-A137145] 10 p1458 N84-19524
Effect of liquid tin-zinc on the drilling parameters of several alloys
[PB84-134782] 10 p1484 N84-19562
Comparison of fatigue life prediction based on local strains and nominal stresses respectively --- metal fatigue
[LBF-FB-169(183)] 10 p1518 N84-19937
Wear damage to materials — tribology 14 p2126 N84-23747
Ultrasonic inspection of internal defects in castings
[VTT-201] 14 p2156 N84-23920
Measurement of hydrogen in high strength steels using the barnacle electrode
[AD-A139655] 15 p2297 N84-24784
Journal of aeronautical materials (selected articles)
[AD-A140167] 16 p2434 N84-25610
Investigations made to improve the cold-cracking and the fracture behavior of welded joints in high-strength structural steels
[BMFT-FB-T-84-034] 16 p2466 N84-25803
Dynamic crack growth criteria in structural metals
[AD-P003107] 16 p2467 N84-25812
Stress corrosion resistance of structural steels in high chloride environments
[EUR-7435] 17 p2622 N84-26781
A material model for reverse yielding and its application to torsion
[AD-A140897] 17 p2680 N84-27071
Causes and prevention of structural materials failures in naval environments
[AD-A141560] 19 p2994 N84-28972
Development of low cost filler materials for welding high strength steels
[AD-A141724] 19 p2994 N84-28973
Grain-refining heat treatments to improve cryogenic toughness of high-strength steels
[NASA-TM-85816] 20 p3152 N84-30014
Influence of processing on the cryogenic mechanical properties of high strength high manganese stainless steel
[DE84-008242] 20 p3154 N84-30027
Investigations of mechanical properties of high strength steels and their suitability for glass lining
[BMFT-FB-T-84-076] 21 p3368 N84-31370
Characterization of common steels. Report of partial test Number M6-845900, Number 4 21 p3369 N84-31376
Microstructure, mechanical properties and two-body abrasive wear resistance of an Fe-3Cr-C based ultra-high strength steel
[DE84-014605] 22 p3556 N84-32520
Influence of laser hardening on mechanical properties of type 45 steel 24 p3873 N84-34548

HIGH TEMPERATURE
Effect of structural factors on the crack resistance of tungsten carbide/cobalt alloys at high temperatures
[CSIR-1682] 01 p0042 N84-10269
Investigation of microstructural changes in ferritic stainless steels caused by high-temperature deformation
[DE83-015331] 01 p0046 N84-10298
Geothermal Elastomeric Materials Technology Transfer (GEM-TT) Program
[DE83-013118] 01 p0050 N84-10325
Study on creep-fatigue life prediction using simple high temperature low cycle fatigue testing machines
[PB83-224121] 01 p0086 N84-10559
Sodium-sulfate solubilities in high-temperature (250 to 3740C) salt and acid solutions
[DE83-015813] 02 p0191 N84-11241
Fundamental research directed to advanced high temperature coating systems beyond the current state-of-the-art systems
[AD-A131618] 02 p0194 N84-11261
Shocked fluids at high densities and temperatures
[DE83-015901] 02 p0219 N84-11437
Application of laser anemometry in turbine engine research
[NASA-TM-83513] 02 p0222 N84-11456
Proposed fast-response oxygen monitoring and control system for the Langley 8-foot high-temperature tunnel
[NASA-TP-2218] 02 p0223 N84-11460
Corrosion behavior of Fe-Cr-Ni-Zr alloys in aggressive environments at high temperatures
[DE83-014735] 03 p0353 N84-12297
Breakaway corrosion in mixed-gas environments
[DE83-014704] 03 p0354 N84-12299
Solid-oxide fuel-cell performance
[DE83-017926] 03 p0368 N84-12396
Irradiation response in titanium-modified austenitic stainless steels prepared by rapid-solidification processing. Part 2. Dual-ion irradiations
[DE84-001297] 04 p0500 N84-13282
Solid-oxide fuel cells
[DE83-017925] 04 p0527 N84-13469
Hamiltonian formulation of reduced magnetohydrodynamics
[DE83-016758] 04 p0609 N84-14021
Fatigue of niobium at elevated temperatures
[DE84-001373] 05 p0656 N84-14314
Characterization and analysis of cavity development during creep of ceramics at elevated temperature
[DE84-003113] 07 p0979 N84-16345
High-temperature, high-pressure optical cell
[NASA-CASE-MFS-26000-1] 07 p1075 N84-16966
Method of high-temperature expansions in short-range order theory
[BLL-M-35385-(5828.4)] 08 p1129 N84-17344
Development of modified 9 Cr-1 Mo steel for elevated-temperature service
[DE84-003161] 08 p1133 N84-17372
Emission FTIR analyses of thin microscopic patches of jet fuel residue deposited on heated metal surface
[NASA-CR-166331] 08 p1139 N84-17410
Studies on age-hardening in spinodally modulated alloys: Experimental and theoretical
[DE84-004650] 09 p1285 N84-18390
Sustained load crack growth in Inconel 718 under non-isothermal conditions
[AD-A136925] 10 p1460 N84-19535
Mechanical and physical properties of poly(vinylidene fluoride) at high pressures and temperatures
[AD-A137842] 11 p1637 N84-20705
Characteristics of heat and flame resistant optical fiber cables 11 p1726 N84-21260
High temperature electrolysis of water vapor. Status and perspectives of the German research and development activities 11 p1739 N84-21349
Redox behavior of high temperature electrodes 11 p1741 N84-21359
Some non-electrochemical requirements for air electrode materials of high temperature solid electrolyte fuel cells 11 p1742 N84-21363
Use of single point contact electrodes to understand porous electrode behavior on solid electrolytes 11 p1742 N84-21365
Oxygen exchange measurements on zirconia-yttria electrolyte surfaces modified by various dopants 11 p1742 N84-21367
Obtaining metallic powders by ultrasonic atomization of melts 12 p1785 N84-21643
Creep of carbon yarns and composites at high temperature
[AD-A138143] 12 p1790 N84-21671
Applications of laser scattering probes to turbulent diffusion flames
[AD-A138207] 12 p1792 N84-21685
Review of hydrogen isotope permeability through materials
[DE84-007362] 12 p1794 N84-21696
Thermal properties of binary aqueous solutions at high temperatures and high pressure
[BMFT-FB-T-83-217] 12 p1794 N84-21701
A study of the magnetic and metallurgical properties of Sm(Co,Fe,Cu, Zr) sub z alloys near z = 8.5
[AD-A138253] 12 p1798 N84-21728
High-temperature CVD heat pipe development
[DE83-017893] 12 p1816 N84-21838
Direct-contact high-temperature thermal energy storage heat exchanger
[DE84-000012] 12 p1816 N84-21839
Elevated temperature biaxial fatigue
[NASA-CR-173473] 12 p1826 N84-21905

Metallization problems with concentrator cells
12 p1839 N84-21990
Solar tests of aperture plate materials for solar thermal dish collectors
[NASA-CR-173462] 12 p1842 N84-22010
High temperature electrolysis of water vapor: HOT ELLY, phase 2A
[BMFT-FB-T-84-032] 16 p2463 N84-25784
Fabrication of highly dense SiN4 ceramics without additives by high pressure sintering
[NASA-TM-77425] 16 p2470 N84-25829
Production of cubic crystalline boron nitride
[BMFT-FB-T-84-025] 16 p2471 N84-25836
Creep-low cycle fatigue interaction of 2 1/4 Cr 1 Mo steel at high temperature 16 p2501 N84-26051
Heterogeneous condensation of ice mantle around silicate core grain in molecular cloud
16 p2570 N84-26491
Status of new aerothermodynamic analysis tool for high-temperature resistant transparencies
[AD-P003236] 17 p2598 N84-26649
High temperature oxide electrolytes for the splitting of water--the ROC process
[AD-A140881] 17 p2620 N84-26765
Development of sintered Si3N4 for high performance thermomechanical applications
[AD-A140795] 17 p2627 N84-26807
Harwell research into the oxidation of metals: A summary
[AERE-E-11155] 18 p2816 N84-27881
Advanced fuel cell development
[DE84-008964] 18 p2834 N84-27994
Solar tests of aperture plate materials for solar thermal dish collectors 18 p2872 N84-28233
Solar Total Energy Project (STEP) performance analysis of high temperature energy storage subsystem
18 p2874 N84-28249
Studies involving high temperature desulfurization/regeneration reactions of metal oxides for fuel cell development
[DE84-003096] 18 p2876 N84-28261
USSR report: Life sciences, biomedical and behavioral sciences
[JPRS-UBB-84-011] 18 p2894 N84-28364
Developing new materials at elevated temperatures and pressures
[AD-A141235] 18 p2940 N84-28650
Effects of long-time elevated temperature exposures on hot-isostatically-pressed power-metallurgy Udimet 700 alloys with reduced cobalt contents
[NASA-TM-83632] 19 p2985 N84-28917
Advanced high temperature materials for the energy efficient automotive Stirling engine
[NASA-TM-83659] 19 p2992 N84-28963
Improved high temperature resistant matrix resins
[NASA-CR-168210] 19 p2998 N84-28995
Mechanisms of intergranular failures in Alloy 600 in high temperature environments
[DE84-010514] 20 p3155 N84-30033
The role of sintering in the oxidation-reduction of palladium powders
[DE84-011202] 20 p3159 N84-30059
Self-propagating high-temperature synthesis of ceramics in vacuum
[AD-A142506] 20 p3162 N84-30079
New experimental techniques with the split Hopkinson pressure bar
[DE84-003818] 20 p3190 N84-30268
A new optical technique for rapid determination of creep and fatigue thresholds at high temperature
[AD-A142675] 20 p3202 N84-30341
Opacification of high temperature fibrous insulation
[NASA-CR-168578] 21 p3356 N84-31285
Use of pulse radiolysis to measure high temperature kinetics
[DE84-011702] 21 p3361 N84-31324
Environmentally-controlled crack growth rate of type 304 stainless steel in high temperature sulfate solutions
21 p3364 N84-31342
Behavior of Ni-Cr-Si coating alloys in Na2SO4, V2O5 and mixed salt hot corrosion
[DE84-012366] 21 p3367 N84-31363
Hard Coatings for Tribological Systems Operating under Extreme Conditions
[DE84-009660] 21 p3368 N84-31369
Effect of crystallization of grain boundary phase on the high temperature strength of silicon nitride ceramics
[DE84-011788] 21 p3371 N84-31392
Observations on the sliding wear of ceramics
[DE84-012344] 21 p3372 N84-31395
Shock-initiated decomposition of nitramines with laser diagnostics 21 p3372 N84-31401
Disappearance rates of C2(a 3 Pi u) and C2(X 1 Sigma g +) with O2 over the temperature range 298-1300 deg K 21 p3373 N84-31405
Heat pipe technology development for high temperature space radiator applications
[DE84-012444] 21 p3402 N84-31581
Reference plant for high temperature electrodialysis desalting of seawater
[PB84-195841] 22 p3549 N84-32471
Response of Inconel 617 superalloy to combined ground-based and STS reentry exposure
[NASA-TM-86293] 22 p3554 N84-32505
Ferrous alloy metallurgy, liquid lithium corrosion and welding
[DE84-014656] 22 p3556 N84-32517
Low-chromium heat-resisting ferritic alloys strengthened by the Chi Phase
[PB84-199041] 22 p3557 N84-32524
High temperature electronics technology
[AD-A143571] 22 p3586 N84-32714
Thermal shock: High temperature high energy rate testing
[DE84-014147] 22 p3612 N84-32886
Negative electrode catalyst for the iron-chromium REDOX energy storage system
[NASA-CASE-LEW-14028-1] 22 p3616 N84-32909
Spot heating calculation for a heavy ion driven high temperature experiment
[DE84-013879] 22 p3653 N84-33159
New materials from high temperature synthesis
[DE84-014125] 22 p3684 N84-33231
Overlay metallic-cermet alloy coating systems
[NASA-CASE-LEW-13639-1] 23 p3716 N84-33555
Low cycle fatigue behavior of conventionally cast MAR-M 200 AT 1000 deg C
[NASA-TM-83769] 23 p3717 N84-33564
High temperature adhesive silicone foam composition, foam generating system and method of generating foam
[DE84-014315] 23 p3725 N84-33605
Production methods and properties of metal powders for high temperature pressing 24 p3877 N84-34567
Synthesis and characterization of superconducting electronic materials
[AD-A144137] 24 p3966 N84-35116

HIGH TEMPERATURE AIR
The effects of environment and dwell on high temperature fatigue crack growth of 2 1/4 Cr - 1 Mo steel
[AD-A132147] 04 p0549 N84-13617
High temperature catalytically assisted combustion
[AD-A133864] 05 p0648 N84-14259

HIGH TEMPERATURE ALLOYS
U HEAT RESISTANT ALLOYS

HIGH TEMPERATURE ENVIRONMENTS
High-temperature corrosion of iron and iron-based alloys in sulfur-containing atmospheres
[DE83-013843] 01 p0045 N84-10290
Characterization of the general purpose research furnace for low-G directional solidification experiments
[NASA-TM-85718] 04 p0489 N84-13211
Silicon carbide, a high temperature semiconductor
[NASA-TM-83514] 05 p0752 N84-14932
Effects of dietary sodium intake on body and muscle potassium content in unacclimatized men during successive days of work in the heat
10 p1549 N84-20153
Thermally induced fractures 14 p2126 N84-23743
Performance of thermal barrier coatings in high heat flux environments
[NASA-TM-83663] 15 p2295 N84-24772
Operating conditions and materials selection and development in gas turbines
[NLR-MP-81012-U] 17 p2610 N84-26705
Procedure for determination of damping capability of turbomachine blades subjected to heat and centrifugal forces 17 p2642 N84-26905
Effects of adaptation to hot climate on thermoreception 18 p2896 N84-28375
Interactions between erosion and corrosion of metals and alloys at elevated temperatures
[AD-A141410] 19 p2993 N84-28968
Intergranular failures of Alloy 600 in high temperature caustic environments
[DE84-010890] 20 p3155 N84-30032
Mechanisms of intergranular failures in Alloy 600 in high temperature environments
[DE84-010514] 20 p3155 N84-30033
Electronically conductive ceramics for high temperature oxidizing environments
[DE84-014506] 22 p3561 N84-32549

HIGH TEMPERATURE FLUIDS
NT HIGH TEMPERATURE AIR
NT HIGH TEMPERATURE GASES
Rotational viscometer for high-pressure, high-temperature fluids
[DE84-011094] 20 p3190 N84-30264

HIGH TEMPERATURE GAS COOLED REACTORS
Comparison of calculated results from 2 analytical models with measured data from a heat-exchanger flow test
[DE83-013071] 01 p0082 N84-10534
Auxiliary heat-exchanger flow-distribution test
[DE83-012698] 01 p0082 N84-10535
Disparate changes in the physical properties of graphite
[DE83-015986] 03 p0357 N84-12321
Creep and tensile properties of alloy 800H-Hastelloy X weldments
[DE83-017067] 03 p0390 N84-12542

HIGH TEMPERATURE GASES
NT HIGH TEMPERATURE AIR
Hot gas APU starter for advanced aircraft applications
03 p0335 N84-12178
Infrared characteristics of gas plumes
[AD-A131796] 03 p0349 N84-12269
High temperature gas energy transfer
[AD-A131782] 03 p0433 N84-12836
Fluid shielding of high-velocity jet noise
[NASA-TP-2259] 06 p0907 N84-15894
Air/molten salt direct-contact heat-transfer experiment and economic analysis
[DE84-000080] 11 p1675 N84-20928
Damage due to high temperature corrosion
14 p2126 N84-23746
Gas pressure sintering of Beta-Sialon with Z=3
[NASA-TM-77421] 14 p2129 N84-23765
Theory of beam channel hydrodynamics
[AD-A139595] 14 p2229 N84-24365
Investigations of the feasibility of fabric filters at high temperatures and pressures for an energy saving method of gas purification
[BMFT-FB-T-83-292] 15 p2286 N84-24718
Desulfurization of hot reducing gas by means of metal oxides in a fixed bed reactor
[BMFT-FB-T-84-015] 16 p2463 N84-25783

HIGH TEMPERATURE LUBRICANTS
Overview of liquid lubricants for advanced aircraft
[NASA-TM-83529] 02 p0199 N84-11296
Time-temperature studies of high temperature deterioration phenomena in lubricant systems: Synthetic ester lubricants
[AD-A135464] 08 p1166 N84-17594
High-temperature deuterated lubricants: Additives, mechanisms, and methods
[AD-A138114] 12 p1801 N84-21743
Status and new directions for solid lubricant coatings and composite materials 15 p2341 N84-25055
Molecular order and solidification processes in organic liquids and solutions
[AD-A141777] 19 p3101 N84-29699
High-temperature lubricants for minimum-cooled diesel engines
[AD-A142426] 20 p3162 N84-30078

HIGH TEMPERATURE MATERIALS
U REFRACTORY MATERIALS

HIGH TEMPERATURE NUCLEAR REACTORS
NT HIGH TEMPERATURE GAS COOLED REACTORS
First investigations on a wrapped fiber blanket insulation with massive spacers consisting of carbon fiber composite --- ducts
[JUEL-1840] 05 p0646 N84-14247

HIGH TEMPERATURE PLASMAS
X-ray spectroscopic study of high-temperature plasmas by curved crystal spectrometer
[IPPJ-639] 01 p0148 N84-10975
Dielectronic recombination: An introduction
[DE83-015736] 02 p0296 N84-11942
Atomic processes in hot dense plasma
[IPPJ-AM-31] 03 p0443 N84-12911
Bibliography on atomic processes in hot dense plasmas
[IPPJ-AM-29] 03 p0443 N84-12913
Drift waves in rotating plasmas
[DE84-000391] 06 p0921 N84-15988
Development of a high resolution cylindrical crystal spectrometer for line shape and spectral diagnostics of X-rays emitted from-hot-plasmas
[DE84-005664] 11 p1661 N84-20835
Gamma ray line emission, nuclear destruction and neutron production in hot astrophysical plasmas. Deuterium boiler as a gamma ray source
[REPT-762] 11 p1733 N84-21301
Impurity transport in Tokamaks
11 p1734 N84-21312
Atomic collision data for beam probe diagnostics of magnetically confined high temperature plasmas
11 p1735 N84-21318
Wavelength measurement of X-ray lines from He-like ions 11 p1736 N84-21326
Sloshing-ion equilibria in the TARA endplugs
[DE84-003360] 11 p1738 N84-21337

Introduction to tandem mirror physics
[DE84-006644] 12 p1911 N84-22451
Physics of high temperature, dense plasmas
[AD-A138872] 13 p2044 N84-23268
Energetic electrons in impulsive solar flares
[NASA-TM-86102] 14 p2251 N84-24519
Floating potentials and the hot plasma generated by an electron-beam-emitting rocket in the ionosphere
[AD-P002107] 16 p2522 N84-26193
Low energy X-ray and electron physics and applications to diagnostics development for laser-produced plasma research
[DE84-009842] 18 p2934 N84-28604
High resolution, high rate X-ray spectrometer
[DE84-011116] 20 p3190 N84-30266
Acceleration of ions and electrons by wave-particle interactions
[AD-A142341] 20 p3292 N84-30900
Electron capture cross sections in high energy He2+ + neutral Li collisions
[IPPJ-679] 21 p3500 N84-32182
Protective plasma envelope
[DE84-013316] 21 p3502 N84-32194
A proposed technique for creation and detection of hot electron ionization and gain effects in a laser-produced tin plasma
[AD-A144025] 23 p3828 N84-34281

HIGH TEMPERATURE RESEARCH
Analysis of thermoelectric properties of high-temperature complex alloys of nickel-base, iron-base and cobalt-base groups
[NASA-TP-2278] 09 p1281 N84-18370
Starprobe thermal shield evolution
10 p1448 N84-19462

HIGH TEMPERATURE TESTS
Tensile strength of pressureless-sintered silicon nitride at elevated temperature
[NAL-TR-753] 04 p0548 N84-13811
Solar radiation tests
[AD-A133889] 05 p0684 N84-14497
Trichite growth during oxidation of titanium and TA6V4 alloy by water vapor at high temperatures
[NASA-TM-76974] 06 p0805 N84-15248
Ceramic life prediction methodology - hot spin disc life program
[AD-A134783] 08 p1138 N84-17400
Effect of creep in titanium alloy Ti-6Al-4V at elevated temperature on aircraft design and flight test
[NASA-TM-86033] 09 p1330 N84-18685
The study and modeling of high temperature fatigue crack propagation in austenitic stainless steel
[DE84-005391] 10 p1462 N84-19552
Properties of carbon fibers with various coatings
[NASA-TM-77027] 10 p1464 N84-19563
Tensile testing apparatus
[NASA-CASE-LAR-13243-1] 11 p1656 N84-20804
High-temperature oxidation of alpha nickel-silicon. 1: Reaction kinetics; thermogravimetry
[MRL-R-887] 12 p1796 N84-21717
Some aspects of creep in nickel-base super alloys
[NPL-DMA(A)-72] 15 p2294 N84-24769
High temperature X-ray decomposition studies of alpha phase nickel-silicon and beta phase copper-aluminum-nickel alloys 21 p3364 N84-31338
High-temperature cyclic oxidation data, volume 1
[NASA-TM-83665] 21 p3365 N84-31345
Heat pipe development status
[DE84-012580] 21 p3402 N84-31583
High temperature metallic recuperator
[PB84-207869] 22 p3564 N84-32575
Hot-spot heating in central-station arrays
22 p3582 N84-32686
Ductile aluminide alloys for high temperature applications
[DE84-014317] 23 p3719 N84-33575
Management and performance of APPLE battery in high temperature environment 23 p3738 N84-33693
Tape heating method for space simulation testing
24 p3864 N84-34488

HIGH VACUUM
Interaction of a stream of dielectric spheres in an electric field in a high vacuum
[DE83-013695] 04 p0600 N84-13958

HIGH VOLTAGES
High-voltage (270 V) dc power-generating system for fighter aircraft 01 p0010 N84-10057
Three-phase, high-voltage, high-frequency distributed bus system for advanced aircraft
01 p0010 N84-10058
Fuel ignition by high voltage capacitive discharges
[PB83-209155] 01 p0039 N84-10245
Small and light thyratron grid driver
[DE83-014941] 01 p0075 N84-10490
Megavolt pulse transformer powered by a fast plate generator
[DE83-014189] 03 p0366 N84-12384
Radiating dipole model of interference induced in spacecraft circuitry by surface discharges
[NASA-TP-2240] 07 p0964 N84-16247
The concepts of critical temperature and energy cutoff of ambient electrons in high voltage charging of spacecraft 08 p1119 N84-17275
An experimental investigation of electric flashover across solid insulators in vacuum
[NASA-CR-175379] 08 p1149 N84-17478
The effect of pulse current on the electrical strength of high-voltage modulator tubes
[AD-A136489] 09 p1307 N84-18544
High voltage, low inductance hydrogen thyratron study program, phase 5
[DE84-000627] 10 p1487 N84-19721
Development of a process for manufacturing high voltage CMOS circuits and of a technology for gold bump plating for use in integrated display systems
[BMFT-FB-T-83-250] 10 p1488 N84-19732
Arcing phenomena in high voltage fuses
[EUT-83-E-137] 10 p1489 N84-19736
Series detonator initiation system
[AD-A138101] 12 p1811 N84-21809
Biological effects from electric fields associated with high voltage transmission lines
[DE84-005498] 12 p1864 N84-22143
Dilute plasma coupling currents to a high voltage solar array in weak magnetic fields
[NASA-TM-83687] 15 p2283 N84-24708
Guide for designing industrial high tension networks
[CAHIERS-TECHNIQUES-124] 15 p2330 N84-24994
The threshold temperature effect in high-voltage spacecraft charging
[AD-P002120] 16 p2524 N84-26206
High voltage solar array models and Shuttle tile charging
[AD-P002123] 16 p2525 N84-26209
Novelties in design of instruments for measuring high ac voltages 18 p2826 N84-27940
High-voltage spark gap
[AD-A141072] 19 p3013 N84-29097
A voltmeter for remotely sensing high voltages
[AD-D011046] 19 p3027 N84-29199
Radiation tolerance of low resistivity, high voltage silicon solar cells 19 p3045 N84-29318
A high voltage electrical power system for low Earth orbit applications
[NASA-TM-86453] 21 p3390 N84-31511
Hipot and continuity qualification est experience
22 p3583 N84-32692
Electrical safety for high voltage arrays
22 p3584 N84-32697
Modeling of lethal electric shock
22 p3629 N84-33000
Plasma conductivity experiments on pulsed high-voltage discharges by two coil RF-probe
[AD-A144595] 24 p3965 N84-35110

HIGHLY MANEUVERABLE AIRCRAFT
Evaluation of HIMAT aircraft landing approach lateral control gearing using simulation and a visual display
[NASA-TM-84916] 18 p2796 N84-27743
Air data position-error calibration using state reconstruction techniques
[NASA-TM-86029] 22 p3535 N84-32384

HIGHWAYS
Evaluating and quantifying user perception of pavement serviceability
[PB83-207308] 01 p0058 N84-10375
Sulfur extended asphalt pavement evaluation in the State of Washington: SR 270 highway pavement performance report
[PB83-205567] 01 p0058 N84-10380
Direct comparison of intuitive, quasi-rational and analytical cognition
[AD-A130273] 01 p0116 N84-10751
Detection of cracks on highway pavements
[PB83-238204] 04 p0516 N84-13389
Evaluation of fabric interlayers
[PB83-253245] 05 p0664 N84-14363
Task conditions versus stable individual differences as determinants of experts' judgement policies
[AD-A134797] 08 p1203 N84-17841
Material certification and material-certification effectiveness
[PB84-143270] 12 p1804 N84-21762
USSR report: Transportation
[JPRS-UTR-84-004] 14 p2093 N84-23551
Accident surrogates for use in analyzing highway safety hazards. Volume 1: Executive summary
[PB84-174739] 16 p2477 N84-25883
Accident surrogates for use in analyzing highway safety hazards, volume 2
[PB84-174747] 16 p2478 N84-25884
Accident surrogates for use in analyzing highway safety hazards. Volume 3: Appendices A-G
[PB84-174754] 16 p2478 N84-25885
USSR report: Transportation
[JPRS-UTR-84-016] 17 p2598 N84-26652
USSR report: Transportation
[JPRS-UTR-84-024] 21 p3329 N84-31119
USSR report: Transportation
[JPRS-UTR-84-026] 23 p3687 N84-33368

HIJACKING
U AIR PIRACY

HILBERT SPACE
NT BANACH SPACE
NT SOBOLEV SPACE
Applications of Hilbert space theory to optimal and adaptive space-time processing
[AD-A131401] 02 p0286 N84-11876
Geometric methods for linear prediction — signal processing
[FUB-54-1982] 06 p0903 N84-15859
A variational approach to superlinear elliptic problems
[AD-A134541] 07 p1063 N84-16892
Stability of C* algebras of a foliated manifold
14 p2211 N84-24273
On the generation of infinite dimensional bilinear systems and Volterra series
[RR-228] 14 p2219 N84-24318
Control theory of partial differential equations
[AD-A140945] 18 p2924 N84-28541
Finite element methods for the solution of problems with rough input data
[AD-A140955] 18 p2925 N84-28552
Applications of Riemann-Hilbert problem techniques to electromagnetic coupling through apertures
[DE84-009532] 19 p3009 N84-29073

HILBERT TRANSFORMATION
Some results on stable rank 2 vector bundles and reflexive sheaves on cubic Rho
02 p0286 N84-11877
Extreme value estimates for arbitrary bandwidth Gaussian processes using the analytic envelope
[AD-A141685] 19 p3066 N84-29591

HILL CURVES
U HILL METHOD

HILL METHOD
Stability and capture of asteroids
19 p3118 N84-29611

HILLER MILITARY AIRCRAFT
U MILITARY AIRCRAFT

HILSCH TUBES
Acoustic streaming as a mechanism of the Ranque-Hilsch effect 03 p0319 N84-12068

HIMALAYAS
Studies in environmental geomorphology of Dudhatoli Ridge Garhwal, Himalay, India 23 p3770 N84-33902

HIMAT
U HIGHLY MANEUVERABLE AIRCRAFT

HINDRANCE
U CONSTRAINTS

HINGE MOMENTS
U TORQUE

HINGED ROTOR BLADES
U HINGES
U ROTARY WINGS

HINGELESS ROTORS
U RIGID ROTORS

HINGES
Plastic deformations of a portable frame under short pulse loading on one column by an approximate method including effects of elasticity and plastic rate sensitivity
03 p0387 N84-12521
Bending elasticity of circularly notched bars as monolithic flexure hinges in precision mechanisms
[DE84-002199] 06 p0861 N84-15612
Determination of optimum fin planform and airfoil section for minimizing fin hinge moment
[AD-A134523] 07 p0948 N84-16151
Hinge specification for a square-faceted tetrahedral truss
[NASA-CR-172272] 07 p1015 N84-16586
Preliminary method for estimating hinge moments of all-movable controls
[AD-A139726] 15 p2264 N84-24597
Utilization of selective mass transfer for increasing performance capability of hinges subject to heavy loads
17 p2641 N84-26896
Integrable equations of motion by inertia for two bodies coupled through spherical hinge
17 p2650 N84-26946
Flexure hinge
[PB84-178557] 20 p3199 N84-30319

HIPPARCOS SATELLITE
Accurate thermal control of enclosures of optical payloads — faint object camera, Hipparcos
10 p1447 N84-19457

HISTIDINE
Dissociation of amino acid-DNA complexes under influence of long-wave UV light
20 p3258 N84-30660

HISTOCHEMICAL ANALYSIS
Growth and differentiation of mammalian embryonic tissues exposed to hypergravity in vivo and in vitro
09 p1357 N84-18869
Nucleic acid content of canine liver during long-term experimental hypokinesia 15 p2377 N84-25267
Mouse adrenal corticosterone content during prolonged exposure to high-intensity stationary magnetic field
15 p2378 N84-25269
Use of sperm enzymes to detect genotoxic agents
[AD-A142724] 20 p3260 N84-30691

HISTOGRAMS
Comparison of the cloud top heights evaluated from GMS infrared image with the heights reported by air-line pilots, part 2 09 p1346 N84-18797

HISTOLOGY
Amyloplast movement in living statocytes
09 p1351 N84-18830
Simulating certain aspects of hypogravity: Effects on the mandibular incisors of suspended rats (PULEH model) 09 p1353 N84-18844
Morphological and histochemical studies of bone and cartilage during periods of stimulated weightlessness
09 p1354 N84-18847
Cryomicrotome applications: Techniques for the study of skeletal materials
[AD-A137010] 10 p1545 N84-20130
Ultrastructural evaluation of the retina in retinopathy of prematurity and correlations with vitamin E therapy
[AD-A135929] 10 p1547 N84-20143
Structural distinctions of thyroid C cells and parathyroid glands of primates during head-down hypokinesia
15 p2377 N84-25263
Lack of an effect of corpuscular vaccine against I phase Q-fever on persistence and reactivation of Coxiella burnetii infection in mouse and guinea pigs tissue
17 p2741 N84-27402
Neurophysiological approaches to higher brain functions
[PB84-175769] 17 p2746 N84-27434
Current methods of evaluation of bone mineral content 23 p3807 N84-34142
Use of primate model in weightlessness bone physiology. Histological approach after iliac crest biopsy
23 p3809 N84-34155

HISTORIES
The historical records of the Naval Research Laboratory: A guide for researchers
[AD-A131620] 02 p0302 N84-11982
A balloon design for 9000 pounds at 90,000 feet: Recommendations based on heavy-load balloon history
[AD-A131967] 03 p0320 N84-12063
Life histories and monitoring strategies: Some lessons from field experience
[DE83-016164] 04 p0571 N84-13763
A guide to research in NASA history, 7th edition
[NASA-TM-85486] 06 p0935 N84-16078
Development of flight mechanics research in Brunswick 07 p0944 N84-16121
The magnetic state of the Earth (according to the magnetic maps for 1880.0 published by the German Naval Office)
[NASA-TM-77058] 07 p1033 N84-16702
Chronology of KSC and KSC related events for 1981
[NASA-TM-85498] 07 p1084 N84-17047
The Prandtl Hergesell project of a National Research Establishment for Aeronautics
[DFVLR-MITT-83-10] 08 p1096 N84-17123
The national space program from the fifties into the eighties
[AD-A134799] 08 p1107 N84-17197
Magnetospheric and atmospheric physics at the University of Natal 09 p1344 N84-18778
With a view to their practical solution: Sixty years with NACA and NASA, 1915 - 1976
[NASA-TM-85555] 09 p1418 N84-19277
Aircraft over Steinberg (West Germany)
[REPT-5/1982] 10 p1424 N84-19316
The elements of the Earth's magnetism and their secular changes between 1550 and 1915
[NASA-TM-77343] 10 p1533 N84-20043
Microwave semiconductor equipment produced in Poland
[AD-A137596] 11 p1646 N84-20762
AGARD highlights
[AGARD-HIGHLIGHTS-83/1] 12 p1783 N84-21493
Chronology of KSC and KSC related events, 1982
[NASA-TM-85576] 12 p1917 N84-22491
Cosmic October 14 p2112 N84-23659
Reports from the German Meteorological Service. No 21: The evolution of meteorological observations in Austria, including Bohemia and Moravia up to the year 1700
[ISBN-3-88148-208-3] 14 p2178 N84-24046
Review of book on space radiobiology
15 p2378 N84-25270
Living and working in space. A history of Skylab
[NASA-SP-4208] 16 p2454 N84-25737
Determination of the key parameters affecting historic communications satellite trends
[NASA-TM-83633] 16 p2481 N84-25908
NASA, the first 25 years: 1958 - 1983
[NASA-EP-182] 16 p2583 N84-26563
Remote sensing for oceanography: Past, present, future 17 p2711 N84-27263
Typesetting and TROFF
[MC-IW-247/83] 17 p2772 N84-27601
Europe: Two decades in space. Recollections by some of the principal pioneers
[ESA-SP-1060] 18 p2946 N84-28680
Space biology and medicine: Yesterday and today
19 p2976 N84-28865
Rotary wing aerodynamically generated noise
19 p3097 N84-29668
Some aerodynamic discoveries and related NACA/NASA research programs following World War 2
[NASA-TM-86258] 20 p3125 N84-29847
The LANDSAT-4 program: An overview
20 p3205 N84-30360
Historical survey of resonance ionization spectroscopy
[DE84-011654] 21 p3361 N84-31319
The Quaternary history and stratigraphy of the Cape Fear River valley, North Carolina
21 p3438 N84-31815
Forty years of development in diamond tools
[CSIR-TRANS-1730] 22 p3563 N84-32564
Boundary-layer linear stability theory
23 p3748 N84-33759
Historical carbon dioxide: Abundances derived from the Smithsonian spectrobolograms
[DOE/NBB-0063] 23 p3793 N84-34056
Selections on computer technology in CSSR: Computers yesterday and today
24 p3960 N84-35072

HMX
Thermophysical property determination using transient techniques
[AD-A130707] 01 p0156 N84-11027
Specific heat of octahydro-1,3,5,7tetranitro-1,3,5,7-tetrazocine (HMX)
[AD-A134564] 07 p0966 N84-16260
Organometallics in high energy chemistry
[AD-A135715] 09 p1275 N84-18323
Condensed phase temperature profiles in deflagrating HMX 13 p1947 N84-22657
Deuterium isotope effects in HMX thermochemical mechanisms: Decomposition, deflagration, and combustion 13 p1950 N84-22680
Kinetics of the Beta + Delta phase transformation of HMX 13 p1951 N84-22681
Modeling the self-deflagration of HMX
13 p1951 N84-22682
Combustion thermodynamics of some boron-nitrogen-hydrogen compounds
13 p1951 N84-22684

HODOGRAPHS
Shock-free transonic airfoil design by a hodograph method
[AD-A142752] 21 p3325 N84-31098

HODOSCOPES
High energy electromagnetic shower position measurement by a fine grained scintillation hodoscope
06 p0912 N84-15928
Measurement of the energy resolution and related properties of an SCG1-C scintillation glass shower counter array for 1 to 25 GeV positrons
[DE84-007246] 14 p2148 N84-23871
Measurement of electromagnetic shower position and size with a saturated avalanche tube hodoscope and a fine grained scintillation hodoscope
[DE84-007247] 15 p2337 N84-25032

HOGBACKS
U RIDGES

HOHMANN TRAJECTORIES
U ELLIPTICAL ORBITS
U TRANSFER ORBITS

HOHMANN TRANSFER ORBITS
U ELLIPTICAL ORBITS
U TRANSFER ORBITS

HOLDERS
NT FLAME HOLDERS
Holding fixture for a hot stamping press
[NASA-CASE-GSC-12619-1] 03 p0382 N84-12491
Hot melt recharge system — repairing damaged or missing tiles on space shuttle orbiter
[NASA-CASE-LAR-12981-1] 05 p0658 N84-14323
Appropriate lengths between phalanges of multijointed fingers for stable grasping
[AD-A133448] 06 p0894 N84-15806
High pressure oxygen turbopump bearing cage stability analyses — space shuttle main engine
[NASA-CR-170991] 10 p1502 N84-19815
Blast loadings of emergency exits for air-raid shelters type E
[FOA-C-20530-D4(D6)] 15 p2350 N84-25103
Method and apparatus for gripping uniaxial fibrous composite materials
[NASA-CASE-LEW-13758-1] 18 p2808 N84-27829
Field ion microscopy and spectroscopy of hydrogen in metals
[DE84-012972] 21 p3368 N84-31366

HOLE DISTRIBUTION (MECHANICS)
Stress concentration factors. Axially loaded lugs with clearance-fit pins
[ESDU-81006] 07 p1014 N84-16578
A study of ultrafine porosity in hydrated cements using small angle neutron scattering
[AERE-R-10954] 18 p2820 N84-27907
Effects of variations in coldworking repair procedures on flaw growth and structural life
[AD-A141966] 20 p3202 N84-30336
Hole interaction and load introduction effects for compression-loaded laminates with holes
[NASA-TM-86287] 22 p3544 N84-32435

HOLE GEOMETRY (MECHANICS)
Orthotropic hole element 06 p0859 N84-15595
The application of cold worked holes (in aircraft structures)
[NLR-TR-81120-U] 13 p2002 N84-22990
Analysis of symmetric reinforcement of quasi-isotropic graphite-epoxy plates with a circular cutout under uniaxial tensile loading
[AD-A139998] 15 p2285 N84-24715
Analysis of deformation and stresses near cold worked holes
[NLR-TR-82113-U] 15 p2349 N84-25101
An epicycloidal hole under uniform tangential force in an infinite, isotropic, compressible medium in second order elasticity 15 p2401 N84-25407
Design of mechanical joints in composites
17 p2674 N84-27038
Strains in an elastic plate containing an interference-fit bolt near a free edge
[AR-003-012] 20 p3201 N84-30333
The hole drilling method for residual stress distribution measurement
[CETIM-100730] 21 p3424 N84-31720

HOLES
Improving the fatigue performance of thick aluminum alloy bolted joints by hole cold-expansion and the use of interference-fit steel bushes
[ARL-STRUC-NOTE-486] 04 p0543 N84-13578
The use of adhesive-bonded rivets to lessen the reductions in fatigue life caused by rivet holes
[ARL-STRUC-REPT-399] 24 p3887 N84-34617
Stability analysis of elastic-plastic rectangular plate with opening 24 p3958 N84-35062

HOLES (ELECTRON DEFICIENCIES)
Hole trapping, recombination, and space charge in irradiated Sandia oxides
[DE83-015212] 03 p0454 N84-12986
Density of occupied d states in transition metal-metalloid metallic glasses
[DE84-001206] 04 p0503 N84-13298
Modeling of modification experiments involving neutral gas release — from space shuttles
05 p0640 N84-14209
Project Waterhole III — ionospheric perturbation experiments 05 p0640 N84-14210
Understanding localized behavior in the Auger spectra of covalent systems such as graphite
[AD-A133924] 05 p0647 N84-14255
Comparison of autoionization and photoelectron spectra of CO
[AD-A133902] 05 p0647 N84-14256
Localized hole effects in inner-shell excitation
[DE84-001401] 05 p0755 N84-14956
Theory of surface enhanced Raman scattering: A prospective view
[AD-A138320] 12 p1793 N84-21690
The physics of a single-event upset in integrated circuits: A review and critique of analytical models for charge collection
[NASA-CR-173471] 12 p1912 N84-22459
Geometric rationale for hydrogenated Pd3P/sub 1-x
[DE84-006737] 13 p2048 N84-23288
Influence of oxygen on defect production in electron-irradiated, boron-doped silicon
19 p3045 N84-29320

Defect studies in one MeV electron irradiated GaAs and in Al/sub x Ga/sub 1-x As P-N junction solar cells
19 p3045 N84-28321
Relativistic calculations and measurements of energies, Auger rates, and lifetimes
[AD-A143423] 22 p3663 N84-33220
Formation of electron-hole pairs in a semiconductor by vibrationally-excited molecules
[AD-A143552] 22 p3664 N84-33226

HOLLAND
U NETHERLANDS

HOLLOW CATHODES
Hollow cathode apparatus
[NASA-CASE-NPO-15560-1] 07 p1076 N84-16993
Nitriding with a pulsed glow discharge
[BLL-OA-TRANS-3168-(6169.3)] 08 p1128 N84-17335
Hollow cathode cell for pulsed lasers using metal vapors and their chemical compounds
13 p1968 N84-22778
Ionization of polarized hydrogen atoms
[DE84-007378] 14 p2223 N84-24340
Plasma behavior in vacuum coating using hot hollow cathode: A literature survey and proposal for experiment
[DE84-007907] 15 p2411 N84-25471

HOLMIUM
Novel interactions of the charge-balancing cations with framework defects and trapped hydrogen atoms in holmium-exchanged Y zeolites
[DE83-014204] 03 p0433 N84-12839

HOLOGRAPHIC INTERFEROMETRY
NDE techniques for composite laminates
01 p0033 N84-10205
Use of holographic linear Fringe Linearization Interferometry (FLI) for detection of defects
[AD-A129323] 01 p0063 N84-10543
Visualization of patterns corresponding to the Fourier components of a vibration by interference holography
[TPD-1982-0-1] 02 p0222 N84-11453
La Recherche Aerospatiale, Bimonthly Bulletin, no. 1982-4, 209/July-August 1982
[ESA-TT-781] 04 p0477 N84-13141
On the application of holographic interferometry to axisymmetric air flows 05 p0678 N84-14458
Holographic FLI (Fringe Linearization Interferometry) for detection of defects
[AD-A135663] 09 p1318 N84-18612
Optical signal processing
[AD-A135908] 09 p1389 N84-19074
Dense plasma focus research at the Institute of Laser Engineering, Osaka (Japan) 10 p1581 N84-20360
High speed photography and pulsed laser holography for diagnostic investigations of mixture formation and vibration in reciprocating engines
[DFVLR-MITT-83-18] 12 p1819 N84-21857
Spatial interferometry for white light processing: The coherence interferometer 12 p1905 N84-22407
Method of and apparatus for double-exposure holographic interferometry
[NASA-CASE-MFS-25405-1] 13 p1992 N84-22929
Development of holographic interferometry for welding arc analysis
[DE84-005454] 13 p1994 N84-22940
INTFL-8401 computer tomography for interferomatic aerodynamic measurements
[AD-A139591] 14 p2101 N84-23611
Numerical and optical experiments on the Weissenberg effect
[DFVLR-FB-84-04] 16 p2493 N84-25992
Shaft-hub deformation analysis by means of holography
[SCHR-KONSTR.TECH-5] 19 p3028 N84-29204
Holographic FLI for detection of defects
[AD-A142733] 20 p3189 N84-30258
Holographic interferometry using 20-picosecond UV pulses to obtain time resolved hydro measurements of selenium and gold plasmas
[DE84-009485] 20 p3191 N84-30269
Holographic test procedures for the evaluation of complicated material composites (tires)
[BMFT-FB-T-84-096] 21 p3407 N84-31612
Flow-field measurements on an airfoil with an oscillating trailing-edge using holographic interferometry
[NASA-CR-166604] 24 p3852 N84-34430
White light optical information processing
[AD-A144142] 24 p3963 N84-35096

HOLOGRAPHIC SPECTROSCOPY
Bibliography of Soviet Laser Developments, number 60, July August 1982
[AD-A133932] 05 p0759 N84-14978

HOLOGRAPHIC SUBTRACTION
Holographic image subtraction by recording in Fourier plane and space filtration with thin light beam
20 p3289 N84-30682

HOLOGRAPHY
NT ACOUSTICAL HOLOGRAPHY
NT MICROWAVE HOLOGRAPHY
NT WHITE LIGHT HOLOGRAPHY
Space-variant optical systems
[AD-A130096] 01 p0146 N84-10961
Fundamentals and physical limits of holographic memories with and without associative recall
[BMFT-FB-DV-83-002] 02 p0225 N84-11475
Optical means of measuring particle-sea interactions in the Caribbean Sea and Gulf of Mexico
[AD-A131290] 02 p0257 N84-11685
The Gordon Research Conference on Holography and Optical Information Processing
[AD-A129137] 02 p0293 N84-11923
A compact optical pulse compressor with computer-generated holographic masks for radar applications
[AD-A132152] 04 p0522 N84-13430
Holographic optical elements with ultra-high spatial frequencies
[AD-A132355] 04 p0538 N84-13537
Fundamental combustion and diagnostics research at Sandia
[DE84-001787] 05 p0651 N84-14280
On the application of holographic interferometry to axisymmetric air flows 05 p0678 N84-14458
E-beam written computer generated holograms
[AD-A133772] 05 p0684 N84-14499
Application of holography to flow visualization
[NASA-TM-84325] 07 p1007 N84-16530
Approach to real-time holography
[DE84-002779] 08 p1162 N84-17565
Polarizing holographic reflector for Electron Cyclotron Resonant Heating (ECRH) on the Tandem Mirror Experiment Upgrade (TMX-U)
[DE84-003740] 08 p1162 N84-17568
X-ray holographic microscopy experiments at the Brookhaven synchrotron light source
[DE84-004289] 10 p1499 N84-19796
Optical analog & hybrid computer solution of partial differential equations
[AD-A137026] 10 p1571 N84-20291
Automatic holographic droplet analysis for liquid fuel sprays 11 p1609 N84-20531
Automatic evaluation of interferograms
[NASA-TM-78953] 11 p1731 N84-21291
Measurement of fluid properties using rapid-double-exposure and time-average holographic interferometry
[NASA-TM-83630] 12 p1818 N84-21849
Dependence of holographic grating formation upon interference pattern orientation in bismuth silicon oxide
[AD-A138099] 12 p1818 N84-21852
X-ray imaging of biological specimens
[DE84-006287] 12 p1819 N84-21855
An investigation of experimental techniques for obtaining particulate behavior in metallized solid propellant combustion 13 p1947 N84-22659
Infrared optics: Holographic and surface relief devices
[BAE-BT-11393] 13 p2042 N84-23249
Holographic data storage crystals for LDEF (A0044)
15 p2277 N84-24677
Holographic aids for internal combustion engine flow studies
[NASA-TM-83681] 15 p2335 N84-25017
Digital Image Processing in Fluid Dynamics
[VKI-LS-1984-03] 16 p2490 N84-25973
Optical processing 16 p2490 N84-25975
Optimization methods in hierarchical holographic modeling 16 p2494 N84-26001
Holographic investigation of solid propellant combustion particles
[AD-A140168] 16 p2496 N84-26016
The development of a new class of holographic materials
[AD-A140298] 16 p2496 N84-26017
Possibilities for X-ray holography using synchrotron radiation
[DE84-010390] 18 p2844 N84-28063
Development of space holography
19 p2972 N84-28839
Holographic investigation of thermal nonequilibrium vapor generation
[DE84-011905] 21 p3406 N84-31607
New type of dye laser with light-induced distributed feedback 21 p3482 N84-32067
Apparatus based on holographic focusing diffraction grating for measurement of diffraction efficiency of three-dimensional image holograms
21 p3482 N84-32068
Phase-only optical filter for use in an optical correlation system
[AD-D011093] 22 p3657 N84-33187
Distortion measurement of antennas under space simulation conditions with high accuracy and high resolution by means of holography
24 p3864 N84-34491

HOLOMORPHISM
U ANALYTIC FUNCTIONS

HOMEOSTASIS
Homeostasis in primates in hyperacceleration fields
09 p1354 N84-18852
Engineering physiology: New area for use of control theory 20 p3257 N84-30676

HOMING
The aircraft infrared measurements guide
[AD-A132598] 05 p0747 N84-14905
Control aspects as elaborated in space rendezvous simulations 15 p2268 N84-24616
The initial orientation of homing pigeons on the magnetic equator, with and without Sun compass
[INPE-3104-PRE/503] 16 p2534 N84-26271

HOMING DEVICES
A refined model for radar homing intercepts
[AD-A136106] 09 p1254 N84-18187
Radome analysis
[AD-A136805] 10 p1481 N84-19677
Passive Sun seeker/tracker and a thermally activated power module 15 p2348 N84-25089
The design and development of a solar tracking unit
15 p2348 N84-25090
Seeker systems simulation, present capability and future technology 21 p3350 N84-31254
Homing head imperfections altering missile guidance
21 p3351 N84-31256

HOMODYNE RECEPTION
Pulse signals in heterodyne and homodyne detection
[ESA-TT-809] 03 p0362 N84-12357

HOMOGENEITY
The specific solutions of a uniform algebraic differential equation of the second order 04 p0575 N84-13790
Homogenizing properties of diblock polymers in blends of corresponding homopolymers
[AD-A132832] 05 p0659 N84-14334
Homopolymer-induced microphase separation of a homogeneous diblock copolymer
[AD-A133069] 05 p0660 N84-14337
Some remarks on the creeping flow of the second grade fluid
[AD-A132806] 05 p0681 N84-14473
Homogeneity and magnetic susceptibility in some substituted cadmium spinels
[AD-A135297] 08 p1131 N84-17357
A plasma focus with improved reproducibility
10 p1583 N84-20375
A new method of analysis of composite structures
[SNIAS-832-210-105] 16 p2461 N84-25773
Effect of nonhomogeneity on nonlinear stabilization of acoustic vibrations in heat emitting medium within bounded volume 17 p2646 N84-26926
Uniqueness of inverse problem in gravimetry for homogeneous polyhedrons 17 p2700 N84-27201
Sensitivity of a lidar inversion algorithm to parameters relating atmospheric backscatter and extinction
[AD-A141565] 19 p3054 N84-29378
Crack problems for bonded nonhomogeneous materials under antiplane shear loading
[NASA-CR-173892] 22 p3609 N84-32863

HOMOGENEOUS TURBULENCE
La Recherche Aerospatiale, Bimonthly Bulletin, no. 1982-4, 209/July-August 1982
[ESA-TT-781] 04 p0477 N84-13141
Improved turbulence models based on large eddy simulation of homogeneous, incompressible turbulent flows 06 p0645 N84-15514
Renormalization theory of stationary homogeneous strong turbulence in a collisionless plasma
[DE84-006724] 12 p1910 N84-22443
Synoptic classification and horizontal homogeneity of the refractive index structure function parameter in the surface layer
[AD-A140925] 18 p2879 N84-28280

HOMOGENIZATION
U HOMOGENIZING

HOMOGENIZING
Acoustic mixing of an immiscible alloy (Pb-Zn) in microgravity 17 p2613 N84-26728

HOMOJUNCTIONS
High efficiency, low cost thin GaAs solar cells
[NASA-CR-168265] 01 p0102 N84-10662

HOMOLOGY
Cohomology of the 3-differentiable of the Poisson algebra of a symplectic manifold
13 p2032 N84-23175
Annals of the Fourier Institute, volume 34, no. 1
[ISSN-0373-0956] 22 p3633 N84-33025
Non-degeneresecence of some spectral sequences
22 p3634 N84-33027

The Levi problem for cohomology classes
22 p3634 N84-33032
Annals of the Fourier Institute, volume 34, no. 2
[ISSN-0373-0956] 22 p3635 N84-33038
Serre's spectral sequence and homotopy
22 p3636 N84-33050

HOMOMORPHISMS
NT AUTOMORPHISMS
NT MONOIDS
NT SUBGROUPS
Determining the homomorphils of polar substances by gas-liquid chromatography
[BLL-T6164/BG/LRS-(9022.048)]
01 p0036 N84-10229
The specific solutions of a uniform algebraic differential equation of the second order 04 p0575 N84-13790
Algebraic tools for system construction
[MC-RW-234/83] 07 p1053 N84-16820
Top-down design and the algebra of communicating processes
[CWI-CS-R8401] 17 p2756 N84-27495

HOMOPOLAR GENERATORS
Unipolar electric machines with liquid-metal current pickup
[AD-A139776] 16 p2484 N84-25932

HOMOSPHERE
NT MIDDLE ATMOSPHERE
NT STRATOSPHERE
On molecular scattering in the terrestrial atmosphere: An empirical formula for its calculation in the homosphere
[AERONOMICA-ACTA-A-284-1984]
20 p3239 N84-30564

HOMOTOPY THEORY
Computational experiance with the octahedral algorithm and related results
[DE83-015834] 02 p0283 N84-11854
Great sphere fibrations of manifolds
[AD-A132544] 04 p0588 N84-13888

HONEYCOMB STRUCTURES
Effects of ventilation and panel properties on temperature rise from aircraft fires
[DOT/FAA/CT-TN83/83] 07 p0949 N84-16157
In-plane shear properties of a fabric-CFRP/aluminum-honeycomb sandwich construction
[NAL-TR-773] 09 p1275 N84-18327
Honeycomb insulating shade
[DE84-001270] 09 p1276 N84-18335
Optimization of initial microstructures of OT4-1 alloy elements joined by diffusion welding
24 p3875 N84-34558
Advanced composite vertical stabilizer for DC-10 transport aircraft
[NASA-CR-173985] 24 p3878 N84-34573
A comparison of experimental and theoretical results for leakage, pressure distribution, and rotordynamic coefficients for annular gas seals
[NASA-CR-174000] 24 p3910 N84-34765

HONING
On the use of diamond and cubical boron nitride abrasives in automatic honing applications
[CSIR-TRANS-1640] 06 p1141 N84-17420

HOOKS
Adjustable self-releasing hook
[AD-D011082] 22 p3604 N84-32834

HOOPS
Stressed and strained state of cylindrical shells reinforced with hoops 17 p2651 N84-26952

HORIZON SCANNERS
LANDSAT-4 horizon scanner performance evaluation
[E84-10079] 07 p1022 N84-16626
LANDSAT-4 horizon scanner full orbit data averages
[E84-10080] 07 p1022 N84-16627

HORIZON SENSING
U HORIZON SCANNERS

HORIZONTAL FLIGHT
Lecture notes on the principles and practice of airplane performance prediction. Part 2: Point-performance in steady symmetric and unsymmetric flight
[VTH-LR-385-VOL-2] 10 p1429 N84-19346
V/STOL maneuverability and control
[NASA-TM-85939] 13 p1935 N84-22584
V/STOL maneuverability and control
16 p2437 N84-25632

HORIZONTAL ORIENTATION
Time controlled descent guidance algorithm for simulation of advanced ATC systems
[NASA-TM-84373] 01 p0007 N84-10043
Convection in horizontal porous media with different end temperatures 03 p0374 N84-12438
Value of the tilt table in the exploration of circulatory function 11 p1701 N84-21095
Plane motion of solid body on rough surface of annular bearing rotating about its axis perpendicular to plane of motion 13 p1973 N84-22601
Equations of small oscillations for inertial navigation system taking into account Earth's ellipsoidality
17 p2643 N84-26909
Spaced antenna drift 17 p2687 N84-27108
Estimating unbiased horizontal velocity components from ST/MST radar measurements: A case study
17 p2687 N84-27110
Determination of vertical and horizontal wavelengths of gravity waves 17 p2688 N84-27119

HORIZONTAL STABILIZERS
U STABILIZERS (FLUID DYNAMICS)

HORIZONTAL TAIL SURFACES
The influence of V/STOL on wing design and tailplane design 16 p2436 N84-25627

HORMONE METABOLISMS
Dynamics of changes in metabolic and endocrine processes in helicopter crews during commercial flights
15 p2375 N84-25254

HORMONES
NT ADRENOCORTICOTROPIN (ACTH)
NT ALDOSTERONE
NT CORTICOSTEROIDS
NT CORTISONE
NT ESTROGENS
NT PROSTAGLANDINS
Sustained physical activity in diverse situations: Metabolic and hormone data 11 p1698 N84-21077
Sex steroids do not affect muscle weight, oxidative metabolism or cytosolic androgen reception binding of functionally overloaded rat Plantaris muscles
[NASA-CR-173630] 17 p2739 N84-27394
Suppression of asymmetric acid efflux and gravitropism in maize roots treated with auxin transport inhibitors of sodium orthovanadate
[NASA-CR-173634] 17 p2740 N84-27395
Change in spectrum of blood hormones under influence of centimeter range microwaves
17 p2742 N84-27412
Stress biochemistry: Non-invasive measurement techniques in military subjects
[AD-A141598] 19 p3065 N84-29447

HORN ANTENNAS
A wideband low-sidelobe disc-o-cone antenna
[AD-A131440] 02 p0210 N84-11370
Earth coverage corrugated horns (44.5 GHz and 20.7 GHz)
[AD-A133241] 06 p0823 N84-15366
Earth coverage corrugated horns (44.5 GHz and 20.7 GHz)
[AD-P003410] 19 p3015 N84-29114
Hoop/column antenna: RF verification model. Volume 1: Test results
[NASA-CR-172412] 21 p3382 N84-31463
Concerning power recovered by receiving antenna from incident field 22 p3566 N84-32584

HORNS
A compact Q-K/band dual frequency feed horn
[AD-A130258] 01 p0063 N84-10416

HORSEPOWER
Computer program for preliminary helicopter design
[AD-A136026] 09 p1256 N84-18197

HOSES
Design and development of military petroleum hoseline system
[AD-A134374] 07 p0960 N84-16222

HOSPITALS
Systems development and applications software in medical facilities
[AD-A141306] 18 p2945 N84-28674
Information processing for use in the treatment of severely physically handicapped persons
20 p3264 N84-30711

HOT AIR
U HIGH TEMPERATURE AIR

HOT ATOMS
Coherent Anti-Stokes Raman Scattering (CARS) detection or hot atom reaction product internal energy distributions
[DE83-012684] 01 p0142 N84-10936

HOT CATHODES
Plasma behavior in vacuum coating using hot hollow cathode: A literature survey and proposal for experiment
[DE84-007907] 15 p2411 N84-25471

HOT CORROSION
NT TEMPERATURE DEPENDENCE
The X-ray-diffraction analysis of corrosion products of Fe-Ni-Cr alloys formed in molten-nitrate salts
[DE83-013317] 01 p0046 N84-10293
An investigation of substrate effects on type two hot corrosion of marine gas turbine materials
[AD-A132833] 05 p0655 N84-14303
Application of induction coil measurements to the study of superalloy hot corrosion and oxidation
[NASA-TM-83560] 07 p0974 N84-16311
The cathode material for a plasma-arc heater
[BLL-OA-TRANS-3126-(6196.3)]
08 p1232 N84-18053
Corrosion and corrosion prevention in gas turbines
[NLR-MP-82048-U] 10 p1431 N84-19355
Investigation into the role of sodium chloride deposited on oxide and metal substrates in the initiation of hot corrosion
[NASA-CR-173377] 11 p1633 N84-20676
Electrode polarization studies in hot corrosion systems
[DE84-005485] 11 p1634 N84-20686
Damage due to high temperature corrosion
14 p2126 N84-23748
Effects of surface chemistry on hot corrosion life
[NASA-CR-174683] 15 p2295 N84-24774
Use of refractory coatings to protect metal gainst high-temperature corrosion
[BLL-M-35543-(5828.4)] 17 p2621 N84-26772
Effects of alloy composition on cyclic flame hot-corrosion attack of cast nickel-base superalloys at 900 deg C
[NASA-TP-2338] 17 p2622 N84-26783
Hot corrosion in aircraft engines
[DFVLR-MITT-84-04] 18 p2796 N84-27742
Long-term materials test program
[DE84-006899] 18 p2815 N84-27870
Chemical mechanisms and reaction rates for the initiation of hot corrosion of IN-738
[NASA-TP-2319] 19 p2992 N84-28958
Interactions between erosion and corrosion of metals and alloys at elevated temperatures
[AD-A141410] 19 p2993 N84-28968
Sulfidation- and oxidation-resistant ferritic stainless steel containing aluminum
[PB84-189521] 20 p3165 N84-30101
High-temperature cyclic oxidation data, volume 1
[NASA-TM-83665] 21 p3365 N84-31345
Deposition of Na2SO4 from salt-seeded combustion gases of a high velocity burner rig
[NASA-TM-83751] 21 p3398 N84-31558

HOT CYCLE PROPULSION SYSTEM
U TIP DRIVEN ROTORS

HOT ELECTRONS
Initial assessment of the MHD stability of TMX-U
[DE83-016521] 03 p0404 N84-12646
Project Porcupine: The MF mutual impedance probe experiment. Part 1: Flight F2 (March 1977)
[CRPE-NT-93-VOL-1] 05 p0705 N84-14624
Project Porcupine: The MF mutual impedance probe experiment. Part 2: Flights F3 and F4 (March 1979)
[CRPE-NT-94-VOL-2] 05 p0705 N84-14625
Study of the physics of insulating films as related to the reliability of metal-oxide semiconductor devices
[AD-A133674] 05 p0754 N84-14944
Radial structure of curvature-driven instabilities in hot-electron plasma
[DE84-002256] 06 p0921 N84-15986
Ballooning precessional instabilities in a single cell hot electron plasma
[DE84-007017] 14 p2230 N84-24373

HOT EXTRUDING
U EXTRUDING

HOT FORMING
U HOT WORKING

HOT GAS SYSTEMS
U HIGH TEMPERATURE GASES

HOT GASES
U HIGH TEMPERATURE GASES

HOT JET EXHAUST
U HIGH TEMPERATURE GASES
U JET EXHAUST

HOT JETS
U JET FLOW

HOT PLASMAS
U HIGH TEMPERATURE PLASMAS

HOT PRESSING
Hot isostatic pressing of ceramic powder compacts
[AD-A131514] 01 p0050 N84-10324
Holding fixture for a hot stamping press
[NASA-CASE-GSC-12619-1] 03 p0382 N84-12491
Influence of temperature on fracture behavior and mechanical properties of hot-pressed silicon nitride with different sintering aids
[BMFT-FB-T-83-166] 07 p0980 N84-16349
Consolidation of Si3N4 without additives (by hot isostatic pressing)
[NASA-CR-173279] 08 p1136 N84-17389
Additionally compressed titanium fine cast components 14 p2094 N84-23559
Development of silicon nitride gas turbine components, phase 2
[BMFT-FB-T-83-322] 15 p2262 N84-24591
Silicon carbide fiber/mullite composites from rapidly solidified aluminoellicate powder
[AD-A140529] 16 p2469 N84-25825

Fabrication of highly dense SiN4 ceramics without additives by high pressure sintering
[NASA-TM-77425] 16 p2470 N84-25829
Improvements in mechanical properties in SiC by the addition of TiC particles
[DE84-012352] 21 p3358 N84-31297
Effects of applied pressure on hot-pressing of Beta-SiC
[NASA-TM-77397] 23 p3723 N84-33593
Production methods and properties of metal powders for high temperature pressing 24 p3877 N84-34567
Hot isostatic pressing of ceramic powder compacts
[AD-A144123] 24 p3888 N84-34621

HOT STARS
NT A STARS
NT B STARS
NT BLUE STARS
NT O STARS
NT SYMBIOTIC STARS
NT WHITE DWARF STARS
NT WOLF-RAYET STARS
Study of variable extinction of hot stars with circumstellar dust shells
[NASA-CR-173844] 21 p3522 N84-32315
Shell ejection phenomena in the hypergiant star P Cygni 24 p3977 N84-35189
Observations of extensive variability in the ultraviolet spectrum of xi Per 24 p3977 N84-35190
Ultraviolet and optical observations of the Cygnus OB2 association: The star 8A 24 p3977 N84-35191
Hot central stars in planetary nebulae 24 p3977 N84-35193

HOT SURFACES
High temperature (1645 deg C, 3000 deg F) surface ignition test apparatus for fluids
[AD-A132658] 05 p0649 N84-14268

HOT WORKING
Thermomechanical processing of M-50 steel
[AD-A132272] 04 p0499 N84-13271
Development of an isothermal forming technique for the production of precision parts made from titanium alloys
[BMFT-FB-T-83-220] 10 p1472 N84-19616
A review of advanced manufacturing technology — gas turbine components
[PNR-90194] 13 p1975 N84-22815

HOT-FILM ANEMOMETERS
The structure of turbulent entraining flow in an annulus with a rotating screen 06 p0832 N84-15416
A study of annular diffuser flow using a photon-correlating laser Doppler anemometer
[AD-A137019] 10 p1493 N84-19762
Measurement of skin friction in unsteady boundary layers using a flush-mounted hot-film gage
[PB84-197995] 22 p3596 N84-32773

HOT-WIRE ANEMOMETERS
Instabilities in trailing vortices: Flow visualization using hot-wire anemometry 03 p0321 N84-12103
Hot-wire measurements of velocity and temperature fluctuations in a heated turbulent boundary layer
[AD-A135212] 08 p1158 N84-17538
A high-speed data acquisition system for fluid mechanics measurements
[PB84-134592] 10 p1496 N84-19781
Measurement of hydroacoustic particle motion by hot-film anemometry
[AD-A138015] 12 p1901 N84-22383

HOT-WIRE FLOWMETERS
Experimental investigation of turbulent flow in the inlet region of an eccentric annulus
[KFK-3573] 07 p1004 N84-16511

HOT-WIRE TURBULENCE METERS
U HOT-WIRE FLOWMETERS

HOUSEKEEPING (SPACECRAFT)
Space Station Systems Technology Study. Volume 1: Executive summary
[NASA-CR-171014] 13 p1940 N84-22614
Advanced Platform Systems Technology study. Volume 2: Trade study and technology selection
[NASA-CR-173522] 14 p2115 N84-23672
Advanced Platform Systems Technology study. Volume 4: Technology advancement program plan
[NASA-CR-173524] 14 p2115 N84-23674
Sanitary and hygienic features of cabin environment in Salyut-7 orbital station 15 p2375 N84-25253
Analysis of housekeeping radiolinks satellite/ground station
[INPE-3097-NTE/217] 17 p2652 N84-26957
Space Station Systems Technology Study. Volume 2: Trade study and technical selection technical report
[NASA-CR-173776] 19 p2981 N84-28891

HOUSINGS
NT RADOMES
Advanced high-power generator for airborne applications
[AD-A133290] 06 p0830 N84-15398
High pressure oxygen turbopump bearing cage stability analyses — space shuttle main engine
[NASA-CR-170991] 10 p1502 N84-19615
Effect of outer race misalignment on the high speed performance of ball bearings
[NAL-TR-786] 16 p2496 N84-26028
Quality assurance of test houses for ESA spacecraft and associated equipment
[ESA-PSS-01-203-ISSUE-1] 16 p2500 N84-26042
Integrable equations of motion by inertia for two bodies coupled through spherical hinge 17 p2650 N84-26946
Solar energy concentrator system
[AD-D011149] 23 p3785 N84-34004
Innovative method for the thermal cycling of large spacecraft systems 24 p3861 N84-34470
Optical fiber splice sled
[AD-D011180] 24 p3910 N84-34767

HOVERCRAFT
U GROUND EFFECT MACHINES

HOVERCRAFT GROUND EFFECT MACHINES
Design of a remotely controlled hovercraft vehicle for spill reconnaissance
[PB84-124064] 08 p1105 N84-17187

HOVERING
V/STOL (Vertical/Short Takeoff and Landing) low speed and transition equivalent systems analysis
[AD-A131955] 03 p0330 N84-12156
Documentation of ice shapes on the main rotor of a UH-1H helicopter in hover
[NASA-CR-168332] 08 p1096 N84-17139
Hover test of a full-scale hingeless helicopter rotor: Aeroelastic stability, performance and loads data — wind tunnel tests
[NASA-TM-85892] 09 p1255 N84-18190
Navier-Stokes calculations for the vortex of a rotor in hover
[NASA-TM-85894] 15 p2255 N84-24540
Layout considerations and types of V/STOL aircraft 16 p2436 N84-25629
A numerical analysis for blade tip loadings on a thick bladed hovering helicopter rotor 17 p2599 N84-26658
Aerodynamics of hovering 17 p2645 N84-26923
The investigation of a variable camber blade lift control for helicopter rotor systems
[NASA-CR-3503] 18 p2788 N84-27695
Evaluation of UH-1H hover performance degradation caused by rotor icing
[AD-A141252] 18 p2793 N84-27727
Hover test of a full-scale hingeless rotor
[NASA-TM-85990] 23 p3692 N84-33401

HR DIAGRAM
U HERTZSPRUNG-RUSSELL DIAGRAM

HSS-2 HELICOPTER
U SH-3 HELICOPTER

HTGR
U HIGH TEMPERATURE GAS COOLED REACTORS

HTPB PROPELLANTS
Thixotropic flame inhibitors for rocket propellant grains
[AD-D011081] 21 p3373 N84-31408

HU-1 HELICOPTER
U UH-1 HELICOPTER

HUBBLE DIAGRAM
Statistical problems in the determination of the cosmological deceleration parameter qo 09 p1412 N84-19233

HUBBLE SPACE TELESCOPE
Space telescope cost, schedule and performance
[GPO-24-522] 02 p0305 N84-12001
Shuttle measured contaminant environment and modeling for payloads. Preliminary assessment of the space telescope environment in the shuttle bay
[NASA-TM-85111] 03 p0341 N84-12216
Space telescope
[NASA-CR-170948] 06 p0938 N84-16097
Space Shuttle inflatable training articles
[NASA-CR-171761] 11 p1622 N84-20618
Space Shuttle inflatable training articles. Appendices D and I: Drawings
[NASA-CR-171762] 11 p1622 N84-20619
Innovative research in the design and operation of large telescopes for space: Aspects of giant telescopes in space 17 p2765 N84-27560
The PDS for space telescope guide star selection system: Status and improvements 18 p2840 N84-28032
Storage, retrieval, and analysis of ST data 18 p2843 N84-28051
Analysis of space telescope data collection systems
[NASA-CR-171129] 21 p3464 N84-31958
Spinoff, 1984
[NASA-TM-85596] 22 p3676 N84-33305
Development of robotics facility docking test hardware
[NASA-CR-171153] 23 p3698 N84-33433
Space telescope, 1984
[GPO-37-290] 23 p3838 N84-34350
Hubble space telescope component qualification utilizing a residual gas analyzer 24 p3665 N84-34497

HUBS
Application of a quasi-3D inviscid flow and boundary layer analysis to the hub-shroud contouring of a radial turbine
[NASA-TM-83669] 16 p2439 N84-25647
Shaft-hub deformation analysis by means of holography
[SCHR-KONSTR.TECH-5] 19 p3028 N84-29204

HUDSON RIVER (NY-NJ)
Water resources data for New Jersey, water year 1982. Volume 1: Atlantic Slope Basins, Hudson River to Cape May
[PB84-119726] 09 p1338 N84-18736

HUGHES MILITARY AIRCRAFT
U MILITARY AIRCRAFT

HUGONIOT ADIABAT
U HUGONIOT EQUATION OF STATE

HUGONIOT EQUATION OF STATE
Hugoniot measurements on unsintered metal powders
[DE83-016364] 02 p0196 N84-11277
Measured Hugoniot states of a 2-element fluid, O-2 + N sub 2 prime, near 2 Mg/m-3
[DE83-015010] 05 p0662 N84-14349

HULLS (STRUCTURES)
NT SHIP HULLS
Some new results on Grubbs' estimators
[AD-A133922] 05 p0739 N84-14852
Aerodynamic forces on an airship hull in atmospheric turbulence
[UTIAS-277] 14 p2100 N84-23604

HUMAN BEHAVIOR
Search among queues
[AD-A131639] 03 p0424 N84-12773
Human behavior 04 p0511 N84-13351
Human behavior 04 p0511 N84-13352
Studies of emotional instability in smoke from fires: Decrease of thinking powers and of memory in fire smoke 04 p0511 N84-13355
The MGM Grand Hotel fire: A case study of human reaction to fire 04 p0512 N84-13358
Project People 2: An extended interview study of behavior response patterns in health care facility fire incidents 04 p0512 N84-13359
Neurobehavioral effects of carbon monoxide (CO) exposure in humans protocol 1
[AD-A133891] 06 p0888 N84-15774
Job attitudes toward the new maintenance concept of the airway facilities service
[AD-A133282] 06 p0891 N84-15793
The human side of robotics: Results from a prototype study on how workers react to a robot
[AD-A133438] 06 p0894 N84-15805
Task differences, stylistic characteristics and physiological arousal
[AD-A134335] 08 p1203 N84-17844
Behavioral change of blood lactate metabolism
[PB84-100171] 08 p1204 N84-17850
Positive and negative reinforcement effects on behavior in a three-person microsociety
[NASA-CR-173164] 09 p1363 N84-18902
Self-monitoring. Cognitive processes and performance
[AD-A137043] 10 p1551 N84-20164
Toward an interpersonal paradigm for superior-subordinate communication
[AD-A135863] 10 p1551 N84-20166
An intergroup perspective on group dynamics
[AD-A135582] 10 p1551 N84-20167
Pilot behavior models for LSO (Landing Signal Officer) training systems
[AD-A135823] 10 p1552 N84-20169
Behavioral and subjective workload metrics for operational environments 11 p1696 N84-21065
Performance in dual tasks
[AD-A138603] 14 p2186 N84-24096
An overview of productivity improvement efforts in Army organizations
[AD-A138589] 14 p2246 N84-24490
Models of purposive human organization: A comparative study
[AD-A138871] 14 p2247 N84-24491
Massed practice: Does it change the statistical properties of performance tests?
[AD-A139338] 15 p2383 N84-25294
Human-computer interactions and decision behavior
[AD-A139758] 15 p2384 N84-25299
Thermal effects resulting from occupant behavior and building operation 16 p2515 N84-26143
Do users ruin design intentions? 16 p2515 N84-26144

Aerospace Medicine and Biology: A continuing bibliography with indexes (supplement 259)
[NASA-SP-7011(259)] 17 p2743 N84-27415
The influence of sleep state on ventilatory control in humans 17 p2746 N84-27435
Psychology and study of human factor in management 18 p2898 N84-28362
Structure of formal-dynamic properties of human psyche in signal systems interaction 18 p2898 N84-28383
Thought control from parenting, to behavior mod, to cults, to brainwashing
[AD-P003240] 18 p2903 N84-28407
Exploring the interaction of the Vroom/Yetton model and leadership style (LPC) (Least Preferred Coworker) as it predicts performance
[AD-P003247] 18 p2904 N84-28414
Subordinate perceptions of contingent leaders: Do followers accept our theories?
[AD-P003248] 18 p2904 N84-28415
To the wilderness and beyond: The application of a model for transformal change
[AD-P003249] 18 p2904 N84-28416
A summary of the psychological effects of tactical nuclear warfare
[AD-P003256] 18 p2905 N84-28423
Affective determinants of job perceptions
[AD-P003258] 18 p2905 N84-28425
Animal models of human performance: Structural and functional approaches to extrapolating from animal to man
[AD-P003292] 18 p2908 N84-28442
Aftereffects associated with one and two stressors across conditions of complete, partial, or no control
[AD-P003299] 18 p2908 N84-28446
Psychological and biochemical effects of a stress management program
[AD-P003300] 18 p2909 N84-28447
Tracking with intermittent radar coverage. 2: Interruptions after two or more consecutively-collected frames of imagery
[AD-P003323] 18 p2910 N84-28459
Behavioral issues in the management of technology
[AD-P003349] 18 p2912 N84-28457
Behavioral and biological effects of changes in group size and membership
[NASA-CR-173801] 19 p3067 N84-29457
Stability of physiological and psychological human functions under extreme environmental conditions 21 p3453 N84-31910
Research on computer aided testing of pilot response to critical in-flight events
[NASA-CR-173871] 21 p3460 N84-31945
European scientific notes, volume 38, no. 5
[AD-A141713] 21 p3518 N84-32285
Interactive information environments: A plan for enabling interdisciplinary research
[RAND/N-2115] 22 p3673 N84-33284
The functional condition of seamen under conditions of the southern maritime area 23 p3807 N84-34137
Computer-based measurement of intellectual capabilities
[AD-A144065] 23 p3810 N84-34162
Acceptance of a meal and its components: An exercise in missing data
[AD-P003652] 24 p3940 N84-34938

HUMAN BEINGS
The relevance of experimental animal studies to the human experience
[DE83-014063] 01 p0112 N84-10729
Microwaves, hyperthermia, and human leukocyte function
[PB83-225375] 01 p0115 N84-10748
Exposure chamber for studies of pollutant gases and aerosols in human subjects: Design considerations
[DE84-001135] 06 p0890 N84-15785
Review of the National Ambient Air Quality Standards for sulfur oxides: Assessment of scientific and technical information
[PB84-102920] 08 p1184 N84-17711
Problem solving abilities
[AD-A134717] 08 p1202 N84-17840
Some immunological mechanisms of adaptation of seamen to conditions of low latitude sailing 11 p1694 N84-21052
Some aspects of dosimetry in studies of biological effects of nonionizing electromagnetic radiation 15 p2375 N84-25248
Adaptive effects of repeated immersion on man 15 p2376 N84-25258
Electrosleep in prophylaxis of psychoneural stress and recovery of mental performance in operators 18 p2895 N84-28367
Animal models of human performance: Structural and functional approaches to extrapolating from animal to man
[AD-P003292] 18 p2908 N84-28442
Effect of high ammonia content in pressure chamber atmosphere on human adrenocortical system function 20 p3255 N84-30658
Nomogram for demonstrating change in central venous and pulmonary artery pressure during decompression of different parts of the body 20 p3255 N84-30660
Dependence of blood coagulating and fibrinolytic systems on functional state of lysosomal system of neutrophil leukocytes during exposure of the body to low barometric pressure 20 p3255 N84-30661
Sensitivity to hypoxia in humans 21 p3456 N84-31934
Dosimetry of ozone and nitrogen dioxide in man and animals
[PB84-195304] 22 p3631 N84-33009

HUMAN BODY
Vestibulo-ocular reflex gain in man during active versus passive oscillation and the influence of voluntary gaze-control tasks
[AD-A132006] 03 p0415 N84-12717
An experimental study of multi-link models of human postural dynamics and control 04 p0572 N84-13769
Experiments on factors that influence muscular function in man
[AD-A133928] 06 p0888 N84-15771
Development of an interactive computer program to produce body description data
[AD-A133720] 06 p0897 N84-15822
Electrostatic discharge (ESD) simulator experiment (testing of some switches/relays for application to an ESD simulation circuit)
[AD-A134580] 07 p0998 N84-16468
Arctic personnel effects
[AD-A134892] 08 p1201 N84-17829
Analysis of the kinematic properties data of the shoulder complex during forced motion
[AD-A135913] 09 p1362 N84-18895
Statistical analysis of high SCE frequency cells in human lymphocytes
[DE84-005433] 11 p1693 N84-21042
Dose in critical body organs in low Earth orbit
[NASA-TM-85778] 12 p1867 N84-22169
Effects of a negative G strap on restraint dynamics and human impact response
[AD-A138642] 13 p2024 N84-23121
A mechanical model of the human body and its application 17 p2744 N84-27421
Uniform mass distribution properties and body size appropriate for the 50 percentile male aircrewmember, 1980 - 1990
[AD-A142946] 21 p3461 N84-31948
Studies of the electric field distribution in biological bodies: Experimental dosimetry at radio frequencies
[AD-A143507] 22 p3628 N84-32992
Upper to lower body muscular strength and endurance ratios for women and men
[AD-A143821] 23 p3811 N84-34168

HUMAN CENTRIFUGES
Crew station evaluation in a dynamic flight simulation facility 06 p0774 N84-15069
Methods and major findings of cardiovascular exploration involving the human centrifuge 11 p1701 N84-21097

HUMAN ENGINEERING
U HUMAN FACTORS ENGINEERING

HUMAN FACTORS ENGINEERING
NT MOTION SIMULATION
Space Applications of Automation, Robotics and Machine Intelligence Systems (ARAMIS), phase 2. Volume 1: Telepresence technology base development
[NASA-CR-3734] 01 p0089 N84-10583
Space Applications of Automation, Robotics and Machine Intelligence Systems (ARAMIS), phase 2. Volume 2: Telepresence project applications
[NASA-CR-3735] 01 p0090 N84-10584
Flying training R&D (Research and Development) at the Air Force Human Resources Laboratory
[AD-A130250] 01 p0116 N84-10752
Integrated Cuing Requirements (ICR) study: Feasibility analysis and demonstration study
[AD-A131039] 01 p0117 N84-10758
Symbology verification study
[AD-A131328] 02 p0177 N84-11162
Results and interpretation of labor-hygienic studies in the paintshop of the jet engine depot of the Woensdrecht airbase
[PML-1982-54] 02 p0269 N84-11759
Representation of information in software documentation
[AD-A131470] 02 p0273 N84-11783
Proposed study to determine potential flight applications and human factors design guidelines of voice recognition/synthesis systems 03 p0314 N84-12047
Model of the behavior of the human visual system for the perception of contour elements — image processing
[FUB-44-1982] 05 p0714 N84-14677
Modeling the user in intelligent user interfaces
[DE84-012664] 05 p0730 N84-14795
Avionics/crew station integration 06 p0769 N84-15042
Combined visualization 06 p0769 N84-15043
Guidelines and criteria for the functional integration of avionic systems with crew members in command 06 p0770 N84-15044
New flight deck design in the light of the operational capabilities 06 p0778 N84-15097
Certification experience with methods for minimum crew demonstration 06 p0778 N84-15101
Pilot human factors in stall/spin accidents of supersonic fighter aircraft 06 p0779 N84-15102
Conceptual design and simulator implementation of an automatic terminal approach system
[NASA-TM-85667] 07 p0959 N84-16215
Birth of space plant growing
[NASA-TM-77244] 07 p1042 N84-16756
Human factors products: A one-act play with epilogue
[AD-A133354] 07 p1052 N84-16811
Crashworthy cyclic control stick
[AD-A135150] 08 p1103 N84-17176
Terminal work in the process industry: Experience in a time perspective. Part 2: A few years after the installation — computer terminal operators
[FOA-C-56039-H2-PT-2] 08 p1141 N84-17422
Human factors issues associated with the use of speech technology in the cockpit
[NASA-CR-166548] 08 p1143 N84-17433
Man and machine. The role of human factors in system development
[FOA-A-56005-H2] 08 p1206 N84-17863
Ergo-ophthalmological aspects of the VDU: Visual strain and the blue light lesion
[DRIC-T-6921] 09 p1361 N84-18893
User centered system design
[AD-A136131] 09 p1364 N84-18907
An optical analysis of the Farrand VCASS (Visually Coupled Airborne Systems Simulator) helmet-mounted display
[AD-A136649] 10 p1430 N84-19350
The integrated mission-planning station: Functional requirements, aviator-computer dialogue, and human engineering design criteria
[AD-A136909] 10 p1430 N84-19352
Industrial noise control: The past three years 10 p1505 N84-19846
An optimum seat-suspension for off-road vehicles 10 p1512 N84-19896
The historical development and basis of human factors guidelines for automated systems in aeronautical operations
[NASA-CR-166560] 10 p1552 N84-20174
GENIE: A computer-based task for experiments in human-computer interaction
[AD-A137473] 10 p1553 N84-20181
A review of major issues relating to human-machine integration in the development of military systems
[AD-A136739] 10 p1554 N84-20184
Applied cognitive science
[AD-A136780] 10 p1554 N84-20185
Guide to the development of a human factors engineering data retrieval system
[AD-A136918] 10 p1554 N84-20187
Issues in interaction language specification and representation
[AD-A136943] 10 p1555 N84-20188
Dialogue management: New concepts in human-computer interface development
[AD-A136945] 10 p1555 N84-20190
An introduction to human factors for engineering managers: Framework for a teaching unit
[AD-A135958] 10 p1592 N84-20428
Aircraft accident report: Eastern Air Lines, Inc., Boeing 727-225, N8838E, Raleigh, North Carolina, November 12, 1975
[PB83-910406] 11 p1603 N84-20500
Addressee errors in ATC communications: The call sign problem
[NASA-CR-166462] 11 p1603 N84-20501
Military Medical Journal, no. 5, May 1983
[L-2404] 11 p1693 N84-21047
Anthropometric indicators of submariners 11 p1694 N84-21049
Sustained Intensive Air Operations: Physiological and Performance Aspects
[AGARD-CP-338] 11 p1696 N84-21062
Psycho-ergonomic problems presented by the prolonged wearing of gas masks 11 p1698 N84-21073
Human factors of air operations in the South Atlantic campaign 11 p1699 N84-21080
Human engineering guidelines for management information systems. Change 1
[AD-A137808] 11 p1703 N84-21104

A summary of Proceedings of the Department of Defense Robotics Applications Workshop, volume 1 (exclusive of presentations)
[AD-A137941] 11 p1711 N84-21157
Human strength capabilities for the operation of parachute ripcords and riser releases
[AD-A136326] 12 p1868 N84-22174
Human factors in remote control engineering development activities
[DE84-003201] 12 p1868 N84-22176
Investigation of the effect of the viewing target height on the eye height of sitting Visual Display Unit (VDU) operators
[IZF-1983-9] 12 p1869 N84-22177
A natural language interface for a PROLOG database
[AD-A138071] 12 p1880 N84-22254
A man-machine interface concept for a state-of-art, shipboard, command/control console
[AD-P002894] 13 p1980 N84-22854
Human factors aspects of C3 systems — command, control, communication (C3)
[PP-119] 13 p2023 N84-23115
Numeric keyboard layout and computer menu selection
[BAE-BT-11969] 13 p2023 N84-23116
Human factors in space telepresence
[NASA-CR-173420] 13 p2023 N84-23119
USSR report: Science and technology policy
[JPRS-UST-84-007] 13 p2065 N84-23391
Research in man-machine interaction discussed
13 p2065 N84-23393
Physiological acceptability tests of the modified SJU-5/A ejection seat for the F-18 aircraft
[AD-A139416] 14 p2103 N84-23614
Air operations language for military space ground systems
[AD-P002146] 14 p2137 N84-23811
User's guide for COMBIMAN programs (Computerized Biomechanical Man-Model), version 6
[AD-A139139] 14 p2184 N84-24086
Human factors affecting pilot performance in vertical and translational instrument flight
[AD-A139141] 14 p2187 N84-24105
USSR report. Life sciences: Biomedical and behavioral sciences
[JPRS-UBB-84-007] 14 p2250 N84-24515
The design and development of a release mechanism for space shuttle life-science experiments
15 p2347 N84-25079
Human factors in weapon systems
[FOA-A-56006-H2] 15 p2384 N84-25297
Human-computer interactions and decision behavior
[AD-A139759] 15 p2384 N84-25299
An internal review and operational trial of a human factors engineering self-paced course in accordance with the instructional systems development process
[AD-A140011] 15 p2385 N84-25301
Human factors: A necessary tool for industry
[DE84-007531] 15 p2385 N84-25304
Two-dimensional fast Fourier transforms in image processing
[AD-A139997] 15 p2398 N84-25390
European scientific notes. Volume 38, Number 4
[AD-A140039] 15 p2416 N84-25506
Safety recommendations A-84-12 and -13
16 p2444 N84-25677
Oculometric indices of simulator and aircraft motion
[NASA-CR-3801] 16 p2537 N84-26291
Development of a model for human operator learning in continuous estimation and control tasks
[AD-A140320] 16 p2538 N84-26294
The project Cockpit Instruments and Human Engineering as part of a joint research program on aircraft guidance and control at the Technical University of Brunswick
[ESA-TT-783] 16 p2539 N84-26300
Human factors engineering. Part 1: Test procedures
[AD-A140343] 16 p2539 N84-26302
Human factors engineering. Part 2: HEDGE (Human factors engineering data guide for evaluation)
[AD-A140391] 16 p2540 N84-26303
Increase of worker autonomy at the industrial work place as shown in three humanization projects in Sweden, in Great Britain and in the USA
[BMFT-FB-HA-83-031] 16 p2564 N84-26453
Pilot-aircraft interaction concerning a wind shear indication system 17 p2588 N84-26586
Optical and human performance evaluation of HUD (Head-Up Display) systems design
[AD-A140601] 17 p2588 N84-26587
Measurement of HUD (Head-Up Display) optical quality
[AD-P003158] 17 p2588 N84-26589
Visual effects of F-16 Canopy/HUD (Head-Up Display) integration
[AD-P003221] 17 p2595 N84-26634
Optical effects of F-16 Canopy-HUD (Head-Up Display) integration
[AD-P003222] 17 p2595 N84-26635
Cleared for the visual approach: Human factor problems in air carrier operations
[NASA-CR-166573] 17 p2603 N84-26679
Aerospace Medicine and Biology: A continuing bibliography with indexes (supplement 259)
[NASA-SP-7011(259)] 17 p2743 N84-27415
The research program of the Institute for Aerospace Medicine 17 p2744 N84-27419
Analogies between control mechanisms in flight guidance and medicine 17 p2744 N84-27420
Models for the evaluation of work loads of crews during long distance flight 17 p2744 N84-27422
The relationship between personality and efficiency
17 p2744 N84-27423
Display-control compatibility in 3-D displays
[AD-A140640] 17 p2748 N84-27444
The impact of communicating through computers
17 p2750 N84-27457
Software psychology: The need for an interdisciplinary program
[PB84-176718] 17 p2755 N84-27486
ONR (Office of Naval Research) Far East Scientific Bulletin. Volume 9, Number 1, January to March 1984
[AD-A140826] 17 p2770 N84-27589
A study of space station needs, attributes, and architectural options, volume 2, technical. Book 2: Mission implementation concepts
[NASA-CR-173690] 18 p2805 N84-27806
USSR report: Life sciences, biomedical and behavioral sciences
[JPRS-UBB-84-011] 18 p2894 N84-28364
Proceedings of the 9th Symposium on Psychology in the Department of Defense
[AD-A141043] 18 p2902 N84-28403
Visual display technology: A developing challenge for the behavioral scientist
[AD-P003290] 18 p2908 N84-28441
The assessment of nonionizing radiation hazards
[AD-P003294] 18 p2908 N84-28444
Management information systems: A need for human factors
[AD-P003313] 18 p2909 N84-28452
The structure of processing resource demands in monitoring automatic systems
[AD-P003319] 18 p2910 N84-28455
MAGIC (Microcomputer Applications of Graphics and Interactive Communications). 1: A study of manual versus vocal control under heavy task loading
[AD-P003320] 18 p2910 N84-28456
The limits of multiple resource theory in display formatting: Effects of task integration
[AD-P003321] 18 p2910 N84-28457
Tracking with intermittent radar coverage. 1: Interruptions after each collected frame of imagery
[AD-P003322] 18 p2910 N84-28458
Tracking with intermittent radar coverage. 2: Interruptions after two or more consecutively-collected frames of imagery
[AD-P003323] 18 p2910 N84-28459
Psychophysiological tools in engineering psychology
[AD-P003337] 18 p2911 N84-28461
Criteria for selecting subjects for the assessment of advanced crew system concepts
[AD-P003354] 18 p2912 N84-28470
Factors affecting visual performance with stereoscopic television displays
[AD-P003362] 18 p2913 N84-28475
The dual meaning of the term context: Implications for research, theory and applications
[AD-P003365] 18 p2913 N84-28478
User centered system design. Part 2: Collected papers from the UCSD HMI project
[AD-A141023] 18 p2915 N84-28486
Ergonomic aspects of road vehicles. Part 1: A literature survey of some aspects
[IZF-1983-15] 18 p2915 N84-28487
Frequency selected and amplitude limited personal noise protectors
[BMFT-FB-HA-84-016] 18 p2915 N84-28488
Feasibility study on a new type of personal noise protection
[BMFT-FB-HA-84-017] 18 p2915 N84-28489
The military aircrew work environment
[FOA-A-59005-H1-H2] 18 p2915 N84-28490
Perception of acoustic transients
[AD-A138201] 18 p2929 N84-28571
User-system interface design in system acquisition
[AD-A140956] 18 p2943 N84-28664
Pilot interaction with automated airborne decision making systems
[NASA-CR-173782] 19 p3068 N84-29464
Annotated bibliography of human factors laboratory reports (1945-1968): Supplement 4, 1979-1983
[AD-A142141] 19 p3071 N84-29481
Guidelines for Man/Display interfaces with relevance to military environments
[AD-A142171] 19 p3071 N84-29482
Learning about supercomputers on a microcomputer with no keyboard: A science museum exhibit
[DE84-001177] 19 p3073 N84-29486
Psychoacoustic considerations for helicopter noise quantification: Metrics, human response and criteria
19 p3098 N84-29675
US Army Research Institute 1983 report
[AD-A141821] 19 p3115 N84-29790
Dual arm master controller concept: Consolidated fuel reprocessing program
[NASA-CR-173843] 20 p3196 N84-30296
Orientation of ergonomic aspects of the Universal Dynamometer Device — vehicle testing
[IZF-1983-25] 20 p3199 N84-30315
Engineering physiology: New area for use of control theory 20 p3257 N84-30676
Man-machine systems group
[WTHD-161] 20 p3263 N84-30703
Communication aids for the handicapped
20 p3265 N84-30715
Operator performance on flat-panel displays with line and cell failures
[AD-A142340] 20 p3265 N84-30716
Simulated crash decelerations in a light aircraft cabin
[AD-A142806] 21 p3326 N84-31102
Reverse engineering of the multiple launch rocket system. Human factors, manpower, personnel, and training in the weapons system acquisition process
[AD-A142849] 21 p3349 N84-31247
USSR report: Life sciences. Effects of nonionizing electromagnetic radiation
[JPRS-UNE-84-001] 21 p3452 N84-31903
USSR report: Life sciences. Biomedical and behavioral sciences
[JPRS-UBB-84-012] 21 p3454 N84-31916
Ergonomic analysis of human operation of video terminal 21 p3454 N84-31918
Realization of human work capacity: Interdisciplinary problems 21 p3454 N84-31920
Stress in work 21 p3454 N84-31921
Teleoperator human factors study
[NASA-CR-171120] 21 p3460 N84-31944
Research on computer aided testing of pilot response to critical in-flight events
[NASA-CR-173871] 21 p3460 N84-31945
Uniform mass distribution properties and body size appropriate for the 50 percentile male aircrewmember, 1980 - 1990
[AD-A142946] 21 p3461 N84-31948
Study of double wall panels for use in propeller driven aircraft
[NASA-CR-173847] 21 p3490 N84-32116
User-friendly software: The role of the user
[AD-P003489] 21 p3514 N84-32256
Photodigitizing procedures
[AD-A143589] 22 p3599 N84-32793
Pilot jet lag experiments described
22 p3629 N84-32997
Review of occupational medicine relevant to aviation medicine 22 p3631 N84-33012
Shoulder and hip joint for hard space suits and the like
[NASA-CASE-ARC-11534-1] 22 p3633 N84-33021
Teleoperator human factors study
[NASA-CR-173890] 22 p3633 N84-33022
Battery Computer System (BCS) human factors field evaluation
[AD-A143425] 22 p3638 N84-33062
Mission description document, book 2
[NAS 1.15:86652-BK-2] 23 p3696 N84-33439
Advanced development program, books 4 and 5
[NAS 1.15:86652-BK-4/5] 23 p3699 N84-33441
Space Station 23 p3701 N84-33456
Medical-psychological problems of the occupational reliability of flight personnel 23 p3807 N84-34136
The workload book: Assessment of operator workload to engineering systems
[NASA-CR-166596] 23 p3810 N84-34160
Combined effect of noise and vibration on passenger acceptance
[NASA-TM-86284] 23 p3810 N84-34161
Assessing pilot workload in flight
24 p3849 N84-34408
Fleet project team participation in major aviation training device development, acquisition and support
[AD-A144182] 24 p3857 N84-34452
Managerial and organizational determinants of efficiency in research teams (social sciences)
[AD-A144153] 24 p3968 N84-35125

HUMAN PATHOLOGY
Ultrastructural evaluation of the retina in retinopathy of prematurity and correlations with vitamin E therapy
[AD-A135929] 10 p1547 N84-20143

HUMAN PERFORMANCE
NT ASTRONAUT PERFORMANCE
NT OPERATOR PERFORMANCE
NT PILOT PERFORMANCE
Effects of behavioral objectives and instructions on earning a category task
[AD-A130386] 01 p0116 N84-10750
Direct comparison of intuitive, quasi-rational and analytical cognition
[AD-A130273] 01 p0116 N84-10751
Task validation for studies on fragmented sleep and cognitive efficiency under stress
[AD-A130260] 01 p0116 N84-10753
Effects of head impact acceleration on human performance: Overview and preliminary battery identification
[AD-A130286] 01 p0116 N84-10754
A critical analysis of the uses of multiple regression in the study of human judgement
[AD-A131224] 01 p0116 N84-10755
An approach to modeling of human performance for purposes of probabilistic risk assessment
[DE83-009292] 02 p0269 N84-11764
Information loss caused by noise in models for dichotomous items
[AD-A131369] 02 p0280 N84-11834
Biological clocks and shift work scheduling
[GPO-21-747] 03 p0415 N84-12713
Effect of atropine on the exercise-heat performance of man
[AD-A131843] 03 p0416 N84-12719
Coherence of appraisal and coping: Parachute jump effectiveness
[FOA-C-55058-H3] 03 p0416 N84-12724
Measuring evacuation difficulty
04 p0512 N84-13363
A comparative study of the factors linking psychology and information science 04 p0616 N84-14063
Effects of acute cold exposure on submaximal endurance performance
[AD-A132581] 05 p0712 N84-14665
Control device manipulative behavior, arousal and performance during a compensatory tracking task
[AD-A133921] 05 p0713 N84-14670
The effects of task structures, dynamics of difficulty changes, and strategic resource allocation training on time-sharing performance
[AD-A134112] 05 p0715 N84-14685
Minicomputer administered tasks in the study of effects of sustained work on human performance
[AD-A133870] 05 p0715 N84-14688
Incident reporting: Its role in aviation safety and the acquisition of human error data
06 p0775 N84-15081
Proceedings of the 3rd Tripartite Conference on Submarine Medicine: France, United Kingdom and the United States
[AD-A133150] 06 p0889 N84-15777
Color perception and ATC job performance
[AD-A132649] 06 p0890 N84-15781
Rate of initial recovery and subsequent radar monitoring performance following a simulated emergency involving startle
[AD-A133602] 06 p0892 N84-15795
Evaluation results for the interactive video competency recognition system
[AD-A133052] 06 p0892 N84-15796
Applied psychology in Europe: An ONR perspective
[AD-A133093] 06 p0892 N84-15797
Artificial intelligence: An analysis of potential applications to training, performance measurement, and job performance aiding
[AD-A133592] 06 p0900 N84-15839
Performance appraisal revisited
[AD-A132841] 06 p0932 N84-16059
Incentives for controlling the performance of high technology and professional employees
[AD-A134074] 06 p0933 N84-16061
Organizational outcomes of creativity
[AD-A132825] 06 p0933 N84-16066
The design of effective reward systems
[AD-A132859] 06 p0934 N84-16067
Radar training facility initial validation
[AD-A133220] 07 p1049 N84-16797
Maze-solving as a performance measurement tool for human operations under time-stress
[AD-A133394] 07 p1050 N84-16799
Analysis of tutored videotape instructional delivery system
[AD-A133441] 07 p1050 N84-16800
Extending human effectiveness during sustained operations through sleep management
[AD-A134782] 08 p1200 N84-17825
Task conditions versus stable individual differences as determinants of experts' judgement policies
[AD-A134797] 08 p1203 N84-17841
Motivation and performance appraisal behavior
[AD-A134311] 08 p1203 N84-17842
Effects of load, cognitive complexity and type A on satisfaction
[AD-A134415] 08 p1203 N84-17846
Preliminary field tests for detecting flying targets in front of a land background — ground observers
[FOA-C-56033-H2] 08 p1204 N84-17847
Detection of flying targets in front of a land background: Laboratory tests
[FOA-C-56034-H2] 08 p1204 N84-17848
Detection of flying targets in front of a land background: Field tests — human observers
[FOA-C-56035-H2] 08 p1204 N84-17849
Eye spectral sensitivity and its variation with luminance level
[RAE-TR-83043] 09 p1361 N84-18892
The effect of structured contextual tones on psychophysical frequency discrimination
[AD-A135433] 09 p1363 N84-18903
A set of organizational-climate measures: Internal consistency, factor structure, and predictive power
[AD-A135352] 09 p1398 N84-19132
Operator workload measurement validation for the MARK IV DSCC monitor and control subsystem
10 p1475 N84-19634
Performance feedback effects under varying conditions of goals, feedback type, and choice
[AD-A136703] 10 p1550 N84-20157
Mental representation of circuit diagrams: Individual differences in procedural knowledge
[AD-A136876] 10 p1550 N84-20159
Processes of skill performance: A foundation for the design and use of training equipment
[AD-A136879] 10 p1550 N84-20160
Self-monitoring. Cognitive processes and performance
[AD-A137043] 10 p1551 N84-20164
Performance consistency on a perceptual-motor task as a correlate of achievement motivation
[AD-A135933] 10 p1552 N84-20170
Anthropometric indicators of submariners
11 p1694 N84-21049
Sustained Intensive Air Operations: Physiological and Performance Aspects
[AGARD-CP-336] 11 p1696 N84-21062
Conceptual framework for the development of workload metrics in sustained operations
11 p1696 N84-21063
The U.S. Air Force neurophysiological workload test battery: Concept and validation
11 p1696 N84-21064
Behavioral and subjective workload metrics for operational environments 11 p1696 N84-21065
Circadian rhythms and sustained operations
11 p1697 N84-21067
The effects of sleep loss and sustained mental work: Implications for command and control performance
11 p1697 N84-21069
Adaptation to irregularity of rest and activity
11 p1697 N84-21070
Some issues in research on effects of sustained work and sleep loss on performance
11 p1697 N84-21071
Hypnotics and air operations
11 p1697 N84-21072
Attention, performance, and sustained activation in military air traffic controllers 11 p1696 N84-21076
Binary classification and the subtractive approach
[AD-A137716] 11 p1701 N84-21099
An application of a multidimensional extension of the two-parameter logistic latent trait model
[AD-A137741] 11 p1713 N84-21170
Current research at the U.S. Naval Biodynamics Laboratory on human whole-body motion and vibration
[AD-A136367] 12 p1865 N84-22155
Time to Line Crossing (TLC): A new method to describe driving performance
[IZF-1983-10] 12 p1867 N84-22165
Open and closed loop steering in a lane change manauver
[IZF-1983-22] 12 p1867 N84-22167
Optimal control model applications and field measurements with respect to car driving
[IZF-1983-18] 12 p1892 N84-22324
En route/terminal ATC (Air Traffic Control) operations concept
[AD-A136991] 13 p1929 N84-22550
Human decisionmaking in dynamic environments with increasing information processing demands
[AD-P002884] 13 p1979 N84-22845
Individual differences in military decisionmaking: The classification performance of active sonar operators
[AD-P002885] 13 p1979 N84-22846
Decision and display analysis in a simple surveillance problem
[AD-P002886] 13 p1979 N84-22847
Yellow ophthalmic filters in the visual acquisition of aircraft
[AD-A138536] 13 p2020 N84-23097
Detection of horizontal bars as a function of length, separation, eccentricity and frequency of temporal modulation: Possible applications to helicopter acquisition
[BAE-BT-11288] 13 p2021 N84-23105
Modelling of visual search performance
[BAE-BT-14588] 13 p2021 N84-23106
Detection of dotted forms in a structured visual noise environment
[AD-A138853] 13 p2022 N84-23108
Personnel technology: Performance appraisal, a process approach
[AD-A138359] 13 p2022 N84-23112
Airsickness during Naval flight officer training: Fleet readiness squadrons
[AD-A138973] 14 p2185 N84-24095
A Unified Model of Attention and Problem Solving
[AD-A138787] 14 p2186 N84-24097
Social support and performance in complex organizations
[AD-A138888] 14 p2186 N84-24098
Effects of stressors on task performance and satisfaction
[AD-A139039] 14 p2187 N84-24101
The design and development of a release mechanism for space shuttle life-science experiments
15 p2347 N84-25079
Choice of psychophysiological criterion to assess whole-body low-frequency vibration
15 p2376 N84-25255
Limits of pattern discrimination in human vision
[AD-A139921] 15 p2379 N84-25278
Computer-managed instruction: Individual differences in student performance
[AD-A139708] 15 p2382 N84-25286
Dimensionality, scoring, and related problems in adaptive testing
[AD-A139849] 15 p2383 N84-25290
Computer-managed instruction: Stability of cognitive components
[AD-A139881] 15 p2383 N84-25291
Effects of appraisal salience on immediate and memory-based judgments
[AD-A140334] 16 p2538 N84-26295
The relationship between exhaustivity and consistency at the optimum indexing level 16 p2565 N84-26462
Optical and human performance evaluation of HUD (Head-Up Display) systems design
[AD-A140601] 17 p2588 N84-26587
Evaluation of energy characteristics of bipedal walking and running by model analysis 17 p2649 N84-26941
USSR Report: Life sciences biomedical and behavioral sciences
[JPRS-UBB-84-013] 17 p2740 N84-27397
Physiological assessment of capacity for processing increasing amounts of visual information by human operators 17 p2740 N84-27396
Biofeedback methods and quality of operator's performance 17 p2740 N84-27399
Models for the evaluation of work loads of crews during long distance flight 17 p2744 N84-27422
The relationship between personality and efficiency
17 p2744 N84-27423
A non-dimensional analysis of cardiovascular response to cold stress. Part 1: Identification of the physical parameters that govern the thermoregulatory function of the cardiovascular system
[AD-A138710] 17 p2745 N84-27429
A brief history of the use of simulation techniques in training and performance assessment
[AD-A140763] 17 p2746 N84-27437
Motivation and work performance: A comparative and analytical study 17 p2747 N84-27441
Physiological responsiveness of operators in relation to work and homeostatic disorders
18 p2894 N84-28365
Functional status in relation to work, performance and health 18 p2895 N84-28366
Functional status of operators and its systemic and technical determinants 18 p2895 N84-28369
Problems and perspectives of Alpine work physiology
18 p2895 N84-28370
Circulatory dynamics in expeditionary tour of duty
18 p2896 N84-28372

Occupational efficiency in relation to psychophysiological characteristics
18 p2895 N84-28373
Structure of formal-dynamic properties of human psyche in signal systems interaction 18 p2898 N84-28383
Role of feedback in regulation of ideomotor movements 18 p2898 N84-28386
Perception of binaural temporal shifts
18 p2898 N84-28387
Neuromagnetic investigation of workload and attention
[AD-A140946] 18 p2900 N84-28394
Proceedings of the 9th Symposium on Psychology in the Department of Defense
[AD-A141043] 18 p2902 N84-28403
Military deception: A clinical psychological analysis
[AD-P003239] 18 p2902 N84-28406
To the wilderness and beyond: The application of a model for transformal change
[AD-P003249] 18 p2904 N84-28416
The Defense Nuclear Agency intermediate dose program: An overview (effects of total-body irradiation on the performance of personnel in Army combat crews)
[AD-P003253] 18 p2905 N84-28420
A questionnaire assessment of estimated radiation effects upon military task performance
[AD-P003254] 18 p2905 N84-28421
Estimated effects of ionizing radiation upon military task performance: Individual combat crewmember assessment
[AD-P003255] 18 p2905 N84-28422
Risk-taking performance of military personnel: Sex differences and practice effects
[AD-P003262] 18 p2906 N84-28429
Habitability and human productivity issues confronting the Air Force Space Command
[AD-P003266] 18 p2906 N84-28431
A computer simulation to predict target identification latencies
[AD-P003272] 18 p2907 N84-28437
Psychological evaluation of aircrew members
[AD-P003266] 18 p2908 N84-28440
Visual display technology: A developing challenge for the behavioral scientist
[AD-P003290] 18 p2908 N84-28441
The role of relevant experience and intellectual ability in determining the performance of military leaders: A contingency model explanation
[AD-P003303] 18 p2909 N84-28448
Individual differences in learning rate
[AD-P003338] 18 p2911 N84-28462
Use of self assessment in estimating levels of skill retention
[AD-P003345] 18 p2911 N84-28465
A systematic comparative analysis of conditions analogous to long-duration space missions
[AD-P003353] 18 p2912 N84-28469
Relationship between crewmember characteristics and tank crew performance
[AD-P003355] 18 p2912 N84-28471
Interactions of motion perception with pattern perception
[AD-P003363] 18 p2913 N84-28476
The effects of marginal vitamin deficiency on mental performance
[IZF-1983-29] 18 p2914 N84-28483
Perception of acoustic transients
[AD-A136201] 18 p2929 N84-28571
Nonlaboratory techniques for the study of cognitive and decision-making processes: A description and selected bibliography
[AD-A141732] 19 p3067 N84-29458
A statistical procedure for assessing test dimensionality
[AD-A142179] 19 p3068 N84-29462
Modification of current feedback strategies: A text synthesis approach
[AD-A142187] 19 p3068 N84-29463
Human exposure in low Earth orbit
[NASA-TP-2344] 19 p3070 N84-29479
Microcomputer network for Computerized Adaptive Testing (CAT): Program listing. Supplement
[AD-A141569] 19 p3077 N84-29521
A machine learning approach to student modeling
[AD-A141704] 19 p3080 N84-29547
An assessment of interactive graphics processing in short-range terminal weather forecasting
[AD-A142706] 20 p3246 N84-30601
Use of vitamins during adaptation to high altitudes
20 p3252 N84-30643
Functional state and work capacity of man when breathing oxygen and hypoxic mixtures under positive pressure 20 p3254 N84-30654
Biomagnetism: Possible new predictor of personnel performance
[AD-A142451] 20 p3262 N84-30697
A model of inter-organizational influences on organizational processes
[AD-A142450] 20 p3313 N84-31037
Correlation between individual alpha-rhythm parameters and operator's performance while subjected to maximum information input 21 p3453 N84-31909
Psychophysiological aspects of monotonous human activity 21 p3453 N84-31911
Stress in work 21 p3454 N84-31921
Link between characteristics of EEG rhythms in biofeedback control and indexes for operator activity
21 p3455 N84-31927
Quantitative assessment of role of spatial frequencies of images in visual recognition of numbers
21 p3455 N84-31928
The effect of information display format on multiple-cue judgment
[AD-A142884] 21 p3459 N84-31941
Variability of practice and the transfer of training of motor skills
[AD-A142896] 21 p3459 N84-31942
The discrimination of pitch in pulse trains and speech
[AD-A142996] 21 p3492 N84-32127
The user's mental model of an information retrieval system: Effects on performance
21 p3516 N84-32275
Optional stopping performance under graphic and numeric CRT formatting
[AD-A143274] 22 p3586 N84-32712
Comparison of CRT (Cathode Ray Tube) antireflection filters
[PB84-202753] 22 p3590 N84-32742
Portable visual function tester
[AD-D011105] 22 p3599 N84-32795
Determination of factors affecting performance and productivity in an engineering/design environment
[AD-A143315] 22 p3669 N84-33252
Spatial performance, cognitive representation and cerebral procedures
[AD-A144095] 23 p3811 N84-34163
Human capabilities in space — man machine interaction
[NASA-TM-87360] 23 p3811 N84-34165
Validation of relative-time-spent rating scales
[AD-A144067] 23 p3812 N84-34169
Development of a general model of the car drivers eye movement sequences and effects of subject and environmental variables
[AD-A144180] 24 p3936 N84-34915
Operator alertness/workload assessment using stochastic model-based analysis of myoelectric signals
[AD-A144535] 24 p3937 N84-34921
Estimating the number and duration of cognitive processes using the within-task subtractive method
[AD-A144617] 24 p3937 N84-34923
Gaze control during horizontal and vertical target tracking
[AD-A144484] 24 p3938 N84-34926
A type of correlated data in operational testing
[AD-P003848] 24 p3939 N84-34935

HUMAN REACTIONS

The MGM Grand Hotel fire: A case study of human reaction to fire 04 p0512 N84-13358
Project People 2: An extended interview study of behavior response patterns in health care facility fire incidents 04 p0512 N84-13359
Human reactions to elf electric and magnetic fields: An annotated bibliography of current literature, 3rd edition
[PB83-259648] 05 p0714 N84-14679
Minicomputer administered tasks in the study of effects of sustained work on human performance
[AD-A133670] 05 p0715 N84-14688
Job attitudes toward the new maintenance concept of the airway facilities service
[AD-A133282] 06 p0891 N84-15793
Rate of initial recovery and subsequent radar monitoring performance following a simulated emergency involving startle
[AD-A133602] 06 p0892 N84-15795
The human side of robotics: Results from a prototype study on how workers react to a robot
[AD-A133438] 06 p0894 N84-15805
Temporal aspects of eye movement when viewing multiple targets
[AD-A134853] 08 p1201 N84-17828
Human reactions to transient electric currents, volume 8
[PB84-112895] 08 p1202 N84-17834
Short-term human respiratory effects of nitrogen dioxide: Determination of quantitative dose-response profiles. Phase 1: Exposure of healthy volunteers to 4 PPM NO/sub 2
[PB84-132299] 10 p1548 N84-20148
Aircraft accident report: Eastern Air Lines, Inc., Boeing 727-225, N8838E, Raleigh, North Carolina, November 12, 1975
[PB83-910406] 11 p1603 N84-20500
Conceptual framework for the development of workload metrics in sustained operations
11 p1696 N84-21063
The U.S. Air Force neurophysiological workload test battery: Concept and validation
11 p1696 N84-21064
An optimal control approach to pilot/vehicle analysis and Neal-Smith criteria
[NASA-CR-170416] 12 p1771 N84-21551
Motion sickness — literature study
[IZF-1983-21] 12 p1866 N84-22158
A user-oriented and computerized model for estimating vehicle ride quality
[NASA-TP-2299] 12 p1866 N84-22162
Contributions of space medicine to medical research
14 p2251 N84-24517
Review of book on space radiobiology
15 p2378 N84-25270
Stressful mission profiles, part 2: Workload and fatigue 16 p2536 N84-26282
Physiological assessment of capacity for processing increasing amounts of visual information by human operators 17 p2740 N84-27396
An investigation of organizational climate: Definition, measurement, and usefulness as a diagnostic technique
17 p2771 N84-27595
Structure of formal-dynamic properties of human psyche in signal systems interaction 18 p2898 N84-28383
Influence of level of adaptation to light upon estimation of brightness 18 p2898 N84-28385
Role of feedback in regulation of ideomotor movements 18 p2898 N84-28386
Tracking with intermittent radar coverage. 1: Interruptions after each collected frame of imagery
[AD-P003322] 18 p2910 N84-28458
Tracking with intermittent radar coverage. 2: Interruptions after two or more consecutively-collected frames of imagery
[AD-P003323] 18 p2910 N84-28459
A statistical procedure for assessing test dimensionality
[AD-A142179] 19 p3068 N84-29462
Physiological, Psychological, and Social Effects of Noise
[NASA-RP-1115] 19 p3069 N84-29465
Loudness, noisiness, and vibration effects
19 p3069 N84-29470
Psychoacoustic considerations for helicopter noise quantification: Metrics, human response and criteria
19 p3098 N84-29675
Medical research in first 100 days of Salyut-7 flight
21 p3347 N84-31230

HUMAN RELATIONS

Organizational structures, processes, and problems: A literature review and taxonomy
[AD-A140979] 18 p2943 N84-28685

HUMAN RESOURCES

Flying training R&D (Research and Development) at the Air Force Human Resources Laboratory
[AD-A130250] 01 p0116 N84-10752
Productivity measurement in software engineering
[PB83-227330] 01 p0160 N84-11054
A normative model of work team effectiveness
[AD-A136398] 10 p1551 N84-20165
Report of the DOD-University forum working group on engineering and science education
[AD-A138205] 13 p2049 N84-23292
The leader of the Army acquisition workforce
[AD-P002762] 13 p2052 N84-23309
Prerequisites for the establishment of a professional acquisition workforce
[AD-P002763] 13 p2052 N84-23310
Training requirements for changing times
[AD-P002764] 13 p2052 N84-23311
USSR report: Human resources
[JPRS-UHR-84-009] 14 p2187 N84-24103
Cognitive organization as a function of flying experience
[AD-A141767] 19 p3068 N84-29459
Women in the sciences
[TB-83-8] 19 p3114 N84-29784
Military Medical Journal, no. 4, 1984
[L-2718] 23 p3806 N84-34134
Physiological-hygienic criteria of medical selection of military servicement for work in a hot climate
23 p3807 N84-34135
Validation of relative-time-spent rating scales
[AD-A144067] 23 p3812 N84-34169

HUMAN TOLERANCES

Effect of the microclimate on the night sleep and physical fitness of seamen during a cruise in the low latitudes
08 p1198 N84-17813

Initial human response to nuclear radiation
[AD-A137543] 11 p1694 N84-21054
Selected factors affecting aircrew performance during sustained operations 11 p1696 N84-21074
Contributions of space medicine to medical research 14 p2251 N84-24517
Aermedical Support in Military Helicopter Operations
[AGARD-LS-134] 16 p2536 N84-26279
Thermal control problems in military helicopters 16 p2537 N84-26266
Effects of short-term heat adaptation on certain indicators of physical capacity for work 18 p2897 N84-28380
Criteria of human cold adaptation 18 p2897 N84-28381
Reactions to community noise 19 p3070 N84-29476
Horizontal diplopia thresholds for head-up displays
[AD-A141965] 20 p3129 N84-29672
Modeling of lethal electric shock 22 p3629 N84-33000
Combined effect of noise and vibration on passenger acceptance
[NASA-TM-86264] 23 p3810 N84-34161
Study of annoyance due to urban automobile traffic. Annex 5: Sociological study
[NASA-TM-77515] 24 p3968 N84-35124

HUMAN WASTES
NT FECES
NT URINE
Absorbent product and articles made therefrom
[NASA-CASE-MSC-18223-2] 02 p0269 N84-11758
Composition and analysis of a model waste for a CELSS (Controlled Ecological Life Support System)
[NASA-TM-84368] 02 p0269 N84-11760

HUMERUS
A model of the shoulder girdle for use in rehabilitation 20 p3264 N84-30710

HUMIDITY
Edge-sealed PLZT shutters for operation in high-humidity/temperature environments
[DE83-012627] 01 p0148 N84-10971
Evaluation of a draft standard on performance specifications for health physics instrumentation
[DE83-016169] 02 p0266 N84-11749
Optical extinction coefficients beneath marine stratus clouds. Comparison of coefficients calculated from observed aerosol spectra with coefficients specified by the Navy aerosol model
[AD-A132011] 03 p0410 N84-12685
Storage of synthetic turbine lubricants under adverse conditions
[AD-A132226] 04 p0506 N84-13319
Development of a technique for short-term prediction of hydrometeors using advection and physical forcing
[AD-A132259] 04 p0567 N84-13740
Recommended values of the humidity correction factor k sub h for determining exposure in an X-ray beam with free-air chambers
[JEN-542] 04 p0593 N84-13915
The effect of humidity on the thermomechanical behavior of carbon fiber reinforced epoxy resins
[MBB-BB-526-82-OE] 05 p0645 N84-14241
Climatological statistics in Finland, 1961 - 1980 07 p1035 N84-16715
Hygrothermal effects in continuous fibre reinforced composites. Part 4: Mechanical properties 2 - fatigue and time-dependent properties
[AD-A135768] 09 p1276 N84-18333
Water-vapor effects on friction of magnetic tape in contact with nickel-zinc ferrite
[NASA-TP-2279] 09 p1286 N84-18399
The NEPHOS program: Preliminary results 10 p1536 N84-20061
Humidity control: The pattern for change 11 p1639 N84-20718
Design and application of two stage evaporative cooling systems 11 p1640 N84-20720
Standard environmental test methods
[DE84-006471] 11 p1666 N84-20868
Water vapor profile retrieval simulation studies for the HIRS/MSU and AMTS/MSU sounders 12 p1851 N84-22058
Atmospheric environment for Space Shuttle (STS-9) launch
[NASA-TM-82572] 14 p2179 N84-24047
A preliminary study of the feasibility of detecting long-term trends in atmospheric humidity
[DE84-006417] 14 p2180 N84-24055
Climate fluctuations in Illinois: 1901-1980
[PB84-159896] 14 p2181 N84-24069
The specific humidity profile of the convective atmospheric boundary layer
[KNMI-WR-84-2] 15 p2368 N84-25207
A theoretical analysis of natural convection towers for solar energy conversion
[DE83-011956] 16 p2512 N84-26118
Remote measurements of tropospheric aerosol scattering properties by an airborne high spectral resolution lidar 16 p2520 N84-26179
Density, specific humidity and water vapor elasticity above condensation level 17 p2697 N84-27183
Temperature and humidity profiles in the atmosphere from spaceborne lasers: A feasibility study 17 p2716 N84-27292
Daily variations of temperature and humidity within and above Amazonian forest
[INPE-3196-PRE/560] 21 p3447 N84-31869
Humidity/cloud-radiation feedback on possible climatic perturbation due to fossil fuel utilization
[DE84-011895] 21 p3448 N84-31874
Observational and theoretical studies of the evolving structure of baroclinic waves 24 p3925 N84-34845

HUMIDITY MEASUREMENT
Modern hygrometer. Is it an alternative to psychrometric humidity measurement? 02 p0234 N84-11535
Humidity measurement comparison tests: Dew point hygrometer versus wet bulb psychrometer
[PB83-237487] 04 p0539 N84-13546
Characterization of humidity sensors and physical properties of h20
[AD-A139024] 13 p1993 N84-22938

HUNGARY
East Europe report: Science and technology
[JPRS-ESA-84-012] 14 p2133 N84-23784

HURRICANES
Omega Dropwindsonde processing
[PB83-248773] 03 p0412 N84-12700
Pertinent meteorological data for hurricane Allen of 1980
[PB84-104322] 06 p1192 N84-17766
Evaluation of the FEMA (Federal Emergency Management Agency) model for estimating potential coastal flooding from hurricanes and its application to Lee County, Florida
[PB84-105832] 06 p1192 N84-17769
Kinematic analysis of Hurricane Frederick (1979) using satellite, aircraft and Rawinsonde data
[NASA-CR-175430] 11 p1685 N84-20988
Fiscal Year 1983 programs, fiscal year 1984 projections
[PB84-158146] 14 p2161 N84-24066
Public response to hurricane probability forecasts
[PB84-158658] 14 p2182 N84-24077
Proceedings of the 12th Joint Panel Conference of the US-Japan Cooperative Program in Natural Resources: Wind and Seismic Effects
[PB84-167758] 15 p2318 N84-24911
Observations of inertio-gravity waves in the wake of Hurricane Frederic
[AD-A139944] 15 p2373 N84-25239
National Weather Service hurricane probability program
[PB84-182757] 20 p3248 N84-30619
A computer calculation and display station for slosh hurricane surge model data
[PB84-196753] 21 p3449 N84-31887
National Hurricane Operations Plan
[PB84-196837] 21 p3450 N84-31888
Hurricane Alicia: Prediction, damage and recovery efforts
[GPO-33-446] 22 p3625 N84-32968
On the use of meteorologic satellites in hydrology
[INPE-2879-PRE/404] 23 p3763 N84-33851
Storm severity detecion (RF) 24 p3927 N84-34857
Cloud bands structure of Hurricane David, 1979: A case study
[AD-A144529] 24 p3934 N84-34904

HUYGENS PRINCIPLE
Vortex methods and turbulent combustion
[DE84-011874] 20 p3150 N84-30004

HYBRID CIRCUITS
Hybrid power semiconductor switch
[NASA-CASE-LEW-13922-1] 02 p0212 N84-11389
Application guidelines for quality assurance procedures for hybrid microcircuits
[AD-A131395] 02 p0214 N84-11405
MM and T: Ceramic metal substrates for hybrid electronics
[AD-A132514] 04 p0505 N84-13313
Transactions of the Industrial Institute of Electronics (selected articles)
[AD-A137204] 10 p1485 N84-19711
Empirical and analytical study of instabilities in hybrid optical bistable systems 14 p2236 N84-24416
Generic specification for hybrid microcircuits
[ESA-PSS-01-608-ISSUE-1] 16 p2484 N84-25931
MM&T-Ceramic metal substrates for hybrid electronics: Handbook
[AD-A140689] 17 p2623 N84-26790
Development of low cost custom hybrid microcircuit technology
[NASA-CR-161977] 18 p2832 N84-27978
Integrating IR detector imaging systems
[NASA-CASE-NPO-15805-1] 18 p2932 N84-28590
MIL-STD-1553 interface application notes
[AD-P003539] 21 p3332 N84-31143
Development of a digital air data computer using modern microprocessors, hybrid circuits, and pressure sensors with frequency output
[BMFT-FB-W-84-018] 21 p3343 N84-31208

HYBRID COMPUTERS
Method for evaluating operator inputs to digital controllers
[DE83-013521] 02 p0269 N84-11763
Optical analog & hybrid computer solution of partial differential equations
[AD-A137028] 10 p1571 N84-20291
Missile system: Simulation and validation 12 p1764 N84-21502
Real-time hybrid computer simulation of a small turboshaft engine and control system
[NASA-TM-83579] 12 p1771 N84-21548
Future developments of a hybrid CAD/CAM system 12 p1890 N84-22310
Control algorithms of Soviet HCS Rusalka for robots analyzed 14 p2188 N84-24113

HYBRID PROPULSION
Optimization methods applied to hybrid vehicle design
[NASA-CR-168292] 09 p1406 N84-19185

HYBRID STRUCTURES
The peel strength of aramid aluminum laminate (ARALL)
[VTH-LR-397] 12 p1790 N84-21673
Aramid Aluminum Laminate (ARALL): A material for the next generation of aircraft, a state of the art
[VTH-LR-400] 12 p1790 N84-21674
The mechanical properties of carbon fibre with glass fibre reinforced plastics 15 p2284 N84-24710
Adaptive correction of control machines
[ISD-301] 16 p2484 N84-25929
Research in adaptive control hybrid and constrained structure systems
[AD-A140496] 16 p2547 N84-26345
The mechanical properties of carbon fibre with glass fibre hybrid reinforced plastics 21 p3357 N84-31292

HYBRIDS (BIOLOGY)
U GENETIC ENGINEERING

HYDRATES
Preparation of anhydrous hydrazine
[INPE-2806-PRE/366] 02 p0203 N84-11320
Heat and mass transfer during the growth and dissociation of gas hydrates in porous media
[PB83-255414] 05 p0682 N84-14482
Research opportunities in salt hydrates for thermal energy storage
[DE84-002977] 07 p1026 N84-16650
Development of media for dynamic latent heat storage for the low temperature range. Part 1: Thermal analysis of selected salt hydrate systems
[DFVLR-FB-84-03-PT-1] 15 p2362 N84-25170
Investigation of the crystallization kinetics of an incongruent melting salt hydrate under metastable conditions
[DE84-008666] 19 p3112 N84-29771
Dehydration of aluminum chloride hexahydrates: A technical assessment
[DE84-013086] 21 p3362 N84-31328

HYDRATION
Raman measurements of the mobile cation vibrations in Na, K, Ag and Li (ALPHA)'-alumina
[DE83-015697] 06 p0924 N84-16005
Hydration of (BETA)-prime-prime-alumina
[DE83-015696] 07 p1083 N84-17041
Environmental durability of aluminum adhesive joints protected with hydration inhibitors
[AD-A135304] 09 p1288 N84-18412
Influence of hydration level and body fluids on exercise performance in the heat
[AD-A139284] 15 p2380 N84-25281
Age-related responses to de- and hyperhydration 21 p3452 N84-31905

HYDRAULIC ACTUATORS
U ACTUATORS
U HYDRAULIC EQUIPMENT

HYDRAULIC CONTROL
Analysis of the transfer function model of tray-type binary distillation columns with liquid hydraulic delay
[RR-234] 13 p1975 N84-22816

HYDRAULIC EQUIPMENT
NT AIRCRAFT HYDRAULIC SYSTEMS
Airplane actuation trade study
[AD-A130709] 01 p0013 N84-10080

Prediction of hydraulic pump failures through wear debris analysis
[AD-A131386] 02 p0229 N84-11503
Auxiliary Power Systems
[AGARD-CP-352] 03 p0333 N84-12168
Hydraulic generation of auxiliary power for the Mirage 2000 aircraft 03 p0335 N84-12176
Spacecraft Vibration Testing Using Multi-Axis Hydraulic Vibration Systems — conferences
[ESA-SP-197] 03 p0339 N84-12197
The hydraulic multiaxes vibrator: Its capabilities to simulate real mechanical environments and to verify aerospace structures 03 p0339 N84-12198
Practical experience during installation of the large multiaxes vibration test facility SAMSON 03 p0339 N84-12199
The development of a multi-axis hydraulic vibration test facility at the National Engineering Laboratory, Scotland 03 p0339 N84-12200
Hydraulic actuators and associated components suited for multiaxis vibration systems — spacecraft testing 03 p0339 N84-12201
Concept of a safety system for a servohydraulic test facility 03 p0339 N84-12202
Mathematical modeling and simulation of multiaxis hydraulic test facilities 03 p0339 N84-12204
Simulation of electro-servo-hydraulic actuator for high quality testing — of spacecraft 03 p0340 N84-12206
Hydraulic hoisting and backfilling
[CSIR-ME-452] 04 p0532 N84-13498
Hydraulic subsystems flight test handbook
[AD-A132633] 05 p0629 N84-14137
Application of military lubricants in commercial hydraulic/power transmission systems and components
[AD-A136937] 10 p1467 N84-19584
Experimental and analytical investigation of active loads control for aircraft landing gear 10 p1510 N84-19886
Retraction and lowering of the mirage undercarriage
[AD-A137791] 11 p1606 N84-20518
Investigation of the applicability of a stored hydraulic energy propulsion system to a conventional bus
[PB84-115021] 11 p1753 N84-21446
Hydraulic presses
[AD-A139822] 16 p2477 N84-25877
Tubing and cable cutting tool
[NASA-CASE-LAR-12786-1] 18 p2848 N84-28085
Seawater hydraulics: Development and evaluation of an experimental diver tool system
[AD-A142032] 19 p3032 N84-29231
Design and development of an automatically controlled variable-load energy absorber
[AD-A142683] 20 p3128 N84-29868
Test rig for measuring hydraulic equipment noise
[CETIM-41-H-337] 21 p3345 N84-31224
Detection of damage in hydraulic components by acoustic emission techniques
[AD-A143262] 22 p3607 N84-32850
Ground test challenges in the development of the Space Shuttle orbiter auxiliary power unit 24 p3862 N84-34478
Parameter measurement methods for interfacing hydraulic systems with microelectronic instruments and controllers
[AD-A144208] 24 p3902 N84-34710

HYDRAULIC FLUIDS
Electronic measuring instruments for mixtures of fluids
[PTB-ME-40] 02 p0225 N84-11474
High temperature (1645 deg C, 3000 deg F) surface ignition test apparatus for fluids
[AD-A132658] 05 p0649 N84-14268
Inhalation toxicology. 3: Evaluation of thermal degradation products from aircraft and automobile engine oils, aircraft hydraulic fluid, and mineral oil
[AD-A133221] 06 p0889 N84-15778
Empirical analysis of meandering and flow characteristics in laboratory and natural channels
[DE84-003461] 08 p1179 N84-17679
Toxic Hazards Research Unit report, 1983
[AD-A136170] 09 p1362 N84-18896
Research on shear stability of polymer-containing hydraulic oils
[REPT-11] 12 p1800 N84-21737
In-stream distribution and hydraulic and ecological effects of volcanic ash from Mount St. Helens eruption
[PB84-169382] 20 p3230 N84-30526
Method for the particle size independent spectrometric determination of metal particles in lubricating oils and hydraulic fluids
[AD-D011121] 22 p3545 N84-32445

HYDRAULIC HEATING SOURCES
U HEAT SOURCES
U HYDRAULIC EQUIPMENT

HYDRAULIC JETS
Rapid runway repair program subtask 1.07 - rapid concrete cutting
[AD-A131771] 03 p0338 N84-12195
Development of a high pressure water jet for the rapid removal of concrete
[PB84-109909] 08 p1142 N84-17426
Numerical simulation of the flow of a chemical contaminant subjected to a jet impingement
[AD-P002936] 14 p2196 N84-24176
Warm fog dissipation using large volume water sprays
[NASA-CASE-MFS-25962-1] 22 p3536 N84-32396

HYDRAULIC PUMPS
U HYDRAULIC EQUIPMENT
U PUMPS

HYDRAULIC SYSTEMS
U HYDRAULIC EQUIPMENT

HYDRAULIC TEST TUNNELS
Experimental water tunnel with density stratification for the simulation of small-scale atmospheric flows
[BLL-RISLEY-TR-4871-(9091.9F)] 08 p1106 N84-17188
Multi-ducted inlet combustor research and development
[AD-A135906] 09 p1257 N84-18205
Effects of multiple cylinders on the formation of Von Karman vortex streets
[AD-A136930] 10 p1492 N84-19758
Experimental observations of vortex ring interaction with the fluid adjacent to a surface
[AD-A138999] 13 p1990 N84-22917

HYDRAULIC VALVES
U HYDRAULIC EQUIPMENT
U VALVES

HYDRAULICS
Evaluation of innovative concepts relating to prestressed concrete pavements, volume 5
[PB83-222349] 01 p0059 N84-10386
Microearthquakes induced during hydraulic fracturing at the Fenton Hill HDR site: The 1982 experiments
[DE83-014191] 03 p0408 N84-12672
Modeling of the regional hydraulics of the Rustler Formation
[DE84-005859] 11 p1672 N84-20910

HYDRAZIDES
An investigation of lyolinescence techniques for application in radiation protection dosimetry
[PB83-263236] 19 p3053 N84-29373

HYDRAZINE ENGINES
GEOS 1 and 2 in flight evaluation of the reaction control system
[SEP-TS/S/194/JM/30301/81(1)] 08 p1113 N84-17242

HYDRAZINES
NT DIMETHYLHYDRAZINES
NT METHYLHYDRAZINE
Hydrazine APU starter development
[AD-A131575] 02 p0180 N84-11175
Preparation of anhydrous hydrazine
[INPE-2806-PRE/366] 02 p0203 N84-11320
Toxic Hazards Research Unit report, 1983
[AD-A136170] 09 p1362 N84-18896
Hydrogen fluoride formation and metal corrosion in freon-contaminated propellants 20 p3137 N84-29921
Occupational Medicine Relevant to Aviation Medicine
[AGARD-CP-341] 22 p3631 N84-33011
Hydrazine toxicology: Impact on safety and health in military aviation 22 p3631 N84-33013
Handling of hydrazine in the Royal Danish Air Force 22 p3631 N84-33014
Improvements in the process of dehydrating hydrazine by sodium hydroxide
[INPE-3198-PRE/561] 23 p3712 N84-33531
The oxidation of hydrazine by nitric acid
[DE84-015063] 23 p3715 N84-33547

HYDRIDES
NT BORANES
NT BOROHYDRIDES
NT BORON HYDRIDES
NT CARBORANE
NT CHLOROSILANES
NT DIHYDRIDES
NT LITHIUM HYDRIDES
NT METAL HYDRIDES
NT NITROGEN HYDRIDES
NT PHOSPHINES
NT SILANES
NT ZIRCONIUM HYDRIDES
Growth and characterization of InP and InGaAs films using the hydride VPE technique
[AD-A131841] 03 p0452 N84-12973
LaNi5 hydride cryogenic refrigerator test results 06 p0821 N84-15350
Development of a solar energy system
[DE83-014236] 08 p1180 N84-17690
Development of a solar energy system: Executive summary
[DE83-014392] 08 p1181 N84-17693
Hydrogen storage by molecular polyhydrides
[AD-A136431] 09 p1278 N84-18348
The effects of substrate surface treatments on the defect incorporation in hydride VPE grown InGaAs films
[AD-A137468] 10 p1588 N84-20408

HYDROACOUSTICS
U UNDERWATER ACOUSTICS

HYDROAEROMECHANICS
U AERODYNAMICS

HYDROBALLISTICS
Water entry impact shock on flat faced cylindrical missiles
[AD-A131937] 03 p0371 N84-12419
Pretest plan for a quarter scale AFT segment of the SRB filament wound case in the NSWC hydroballistics facility — space shuttle boosters
[NASA-CR-171028] 15 p2281 N84-24699

HYDROBAROPHONES
U HYDROPHONES

HYDROBROMIC ACID
Coherent Anti-Stokes Raman Scattering (CARS) detection or hot atom reaction product internal energy distributions
[DE83-012684] 01 p0142 N84-10936
Production of hydrogen from renewable resources
[DE84-000082] 14 p2132 N84-23780

HYDROCARBON COMBUSTION
Some aspects of mathematical and chemical modeling of complex chemical processes
[NASA-TM-77055] 07 p0969 N84-16279
Explosion and fire hazards in an oil-oxygen system — of an airplane
[FOA-C-20507-D1] 08 p1101 N84-17159

HYDROCARBON FUEL PRODUCTION
NT ATMOSPHERIC ENERGY SOURCES
Producer gas: Another fuel for motor transport
[PB84-129774] 09 p1291 N84-18427
Energy source today and tomorrow
[MBB-UR-602-82-O] 18 p2584 N84-26452

HYDROCARBON FUELS
NT DIESEL FUELS
NT FOSSIL FUELS
NT GASOLINE
NT JET ENGINE FUELS
NT JP-4 JET FUEL
NT JP-5 JET FUEL
Deposit formation and heat transfer in hydrocarbon rocket fuels
[NASA-CR-168277] 03 p0343 N84-12225
Permeability of flexible materials used in fuel storage tanks. Part 1: General review
[MRL-TN-459] 05 p0662 N84-14353
Atomization and mixing study
[NASA-CR-170943] 06 p0834 N84-15428
Exhaust emissions from a diesel engine
[PB84-122910] 08 p1184 N84-17713
Surface ignition and heterogeneous catalysis of hydrocarbon fuels
[AD-A138214] 12 p1792 N84-21686
Mechanism of soot formation in premixed C2H2/O2 flames 13 p1958 N84-22727
Alternate fuels combustion research
[AD-A138575] 13 p1965 N84-22769
Alternative fuels use in a vehicular gas turbine 15 p2290 N84-24741
LOX/CH4 for reusable high performance booster engines 20 p3138 N84-29926
Solar-heated oil shale retort
[NASA-CASE-NPO-16392-1] 22 p3616 N84-32912
Liquified natural gas densities: Summary of research program at the National Bureau of Standards
[PB84-202647] 22 p3675 N84-33297

HYDROCARBONS
NT ACETYLENE
NT ALKANES
NT ALKENES
NT ALKYNES
NT BENZENE
NT BUTADIENE
NT BUTANES
NT BUTENES
NT CAROTENE
NT CYCLIC HYDROCARBONS
NT CYCLOHEXANE
NT DIENES
NT DIPHENYL COMPOUNDS
NT ETHANE
NT ETHYLENE
NT HEPTANES
NT KEROGEN
NT LIQUEFIED NATURAL GAS
NT METHANE
NT METHYLENE

NT NAPHTHALENE
NT NAPHTHENES
NT NATURAL GAS
NT OXYACETYLENE
NT PARAFFINS
NT PENTANES
NT PROPANE
NT PYRENES
NT TOLUENE
NT VINYLIDENE
Turbine engine exhaust hydrocarbon analysis, tasks 1 and 2
[AD-A131522] 01 p0012 N84-10074
Personal exposure to volatile organics and other compounds indoors and outdoors: The TEAM (Total Exposure Assessment Methodology) study
[PB83-231357] 01 p0115 N84-10744
A statistical examination of the effect of composition on the freezing points of hydro-carbon mixtures
[AD-A131000] 02 p0203 N84-11321
A study of air-pollution mixing heights and atmospheric turbulence over New York City, data report
[DE83-010624] 02 p0244 N84-11596
Studies related to the deep Earth gas
[PB83-244004] 02 p0251 N84-11644
Soot formation from polycyclic aromatics
[DE83-009750] 03 p0349 N84-12271
Positive ion-molecule reactions in OCS/hydrocarbon mixtures
[AD-A132350] 04 p0493 N84-13237
Vapor degreaser/ultrasonic cleaner solvent evaluation
[DE84-002015] 04 p0506 N84-13331
Radiative transfer and photochemistry in the upper atmosphere of Jupiter 04 p0621 N84-14095
Matrix-isolation photoacoustic spectroscopy
[DE84-001967] 05 p0651 N84-14277
Method of refining 2,2-isopropylidenebis-3,5-dibromophenylene-4-oxydiethanol
[NASA-TM-77458] 10 p1453 N84-19492
Polymerization of functionalized acetylenes
[AD-A137120] 10 p1465 N84-19570
Homogeneous reactions of hydrocarbons, silane, and chlorosilanes in radiofrequency plasmas at low pressures
[NASA-TP-2301] 11 p1626 N84-20643
Comprehensive assessment of the specific compounds present in combustion processes. Volume 1: Pilot study of combustion emissions variability
[PB84-140870] 11 p1630 N84-20665
Radical and ion molecule mechanisms in the polymerization of hydrocarbons and chlorosilanes in RF plasmas at low pressures (1.0 torr)
[NASA-TM-83602] 11 p1736 N84-21329
Mechanisms of catalytic oxidation of hydrocarbons in a solid-electrolyte fuel cell 11 p1742 N84-21366
Second Berkeley Catalysis and Surface Science Conference
[DE84-005536] 12 p1794 N84-21609
Review of storage stability characteristics of hydrocarbon fuels, 1952-1982
[DE84-006557] 12 p1803 N84-21754
HC quench layer formation in combustion processes
[DE84-005068] 12 p1823 N84-21883
USAF shale oil program status 14 p2107 N84-23633
Influence of fuel chemical properties on gas turbine combustors 14 p2107 N84-23634
Group-type hydrocarbon standards for high-performance liquid chromatographic analysis of middledistillate fuels
[NASA-TP-2317] 14 p2131 N84-23774
Impact assessment of reducing gasoline volatility
[PB84-152024] 14 p2133 N84-23781
Thermal and oxidative stabilities of liquid lubricants 14 p2154 N84-23907
Low temperature fluorination of aerosol suspensions of hydrocarbons utilizing elemental fluorine
[AD-A139058] 15 p2287 N84-24721
Mechanistic studies related to the metal catalyzed reduction of carbon monoxide to hydrocarbons
[DE84-007963] 15 p2288 N84-24729
Growth of electrically charged soot particles in flames 15 p2291 N84-24751
Formation and destruction of organic pollutants in thermal systems and flames 15 p2291 N84-24752
Degradation of jet fuel hydrocarbons by aquatic microbial communities
[AD-A139791] 15 p2304 N84-24822
Artificial blood substitutes 15 p2430 N84-25594
Atmospheric volatile hydrocarbon composition at five remote sites in Northwestern North Carolina
[PB84-177930] 17 p2620 N84-26766
Impact of vegetative hydrocarbon emissions on ambient ozone levels and control program development
[DE84-006515] 18 p2878 N84-28273
Theory of the electronic structure and optical properties of organic solids: Exciton effects
[AD-A142544] 20 p3149 N84-29993
Wall quench and flammability limit effects on exhaust hydrocarbon emission
[DE84-009754] 21 p3359 N84-31307
Laser Induced Chemistry. 1984 JPM Specialist Session
[AD-A142922] 21 p3372 N84-31400
Laser induced nitrations of some aliphatic hydrocarbon compounds 21 p3373 N84-31404
Lineaments of Texas: Possible surface expressions of deep-seated phenomena
[DE84-010827] 21 p3445 N84-31858
Cleavage of aromatic carbon-carbon bonds
[DE84-010161] 22 p3543 N84-32432
Technique for measuring gas conversion factors
[NASA-CASE-LAR-13220-1] 22 p3598 N84-32786
Development of accelerated fuel-engine qualification procedures
[AD-A143845] 23 p3693 N84-33406
Effect of gravity on halogenated hydrocarbon flame retardant effectiveness
[NASA-TM-83761] 23 p3713 N84-33536
HYDROCHLORIC ACID
Development of technologies for highly integrated circuits
[BMFT-FB-T-83-142] 02 p0216 N84-11417
Corrosion resistance of ceramic materials to hydrochloric acid
[PB84-131333] 10 p1469 N84-19594
Temporal and spatial gaseous HCl concentrations in the near field STS postlaunch environment, Kennedy Space Center, Florida
[AD-A136935] 10 p1532 N84-20032
The vapor pressure of Salt-HCl-Water solutions below 0 C
[AD-A141184] 18 p2811 N84-27845
Nitrolysis of the CN single bond and related chemistry of nitro and nitroso groups
[AD-A141825] 19 p2989 N84-28937
Measurement of H2O and other trace gases in the stratosphere using a high resolution far-infrared spectrometer at 28 km
[NASA-CR-173879] 22 p3622 N84-32951
HYDROCLIMATOLOGY
Application of remote sensing to state and regional problems
[E84-10128] 14 p2168 N84-23986
Meteorologic report based on the work of Oosterscheldewerken
[KNMI-TR-45] 16 p2529 N84-26236
HYDROCYANIC ACID
Adsorption of hydrocyanic acid on Lewis acid sites of silicon dioxide 17 p2620 N84-26767
HYDRODYNAMIC EQUATIONS
NT HELMHOLTZ VORTICITY EQUATION
Two-fluid gravitational instabilities in a galactic disk 02 p0305 N84-11998
Formation of standing shocks in stellar winds and related astrophysical flows 03 p0469 N84-13068
Active experiments and single ion motion in the magnetotail 05 p0641 N84-14219
Solvability of the leakage problem for the hydrodynamic Euler equations in Sobolev spaces 07 p1000 N84-16485
A stochastic method in hydraulic design of open channels
[PREPRINT-790] 12 p1617 N84-21845
Effect of hydromechanical inertia forces on stability of cylindrical hydrodynamic bearing 13 p1971 N84-22789
Hydrodynamic interactions between particles in low-Reynolds-number flow: A modular approach
[AD-A139269] 14 p2146 N84-23859
Design calculations associated with the laying of submarine communication cables
[NPL-DMA(A)-76] 15 p2346 N84-25077
New hydrodynamic potentials and a free boundary value problem of the stationary Stokes equation
[PREPRINT-636] 17 p2760 N84-27524
Hamiltonian representation of equations of hydrodynamics and its use in describing wave movements in currents with shear 18 p2865 N84-28190
Wave uplift pressure on horizontal platforms
[PB84-190628] 20 p3188 N84-30257
Certain assumptions of theory of hydrodynamic lubrication during metal pressure working
[BLL-M-35681-(5828.4)] 22 p3603 N84-32822
On the hydrodynamic corrections of SEASAT-ALT data and geodynamic application 23 p3777 N84-33945
HYDRODYNAMIC STABILITY
U FLOW STABILITY
HYDRODYNAMICS
NT CYLINDRICAL PLASMAS
NT ELASTOHYDRODYNAMICS
NT ELECTROHYDRODYNAMICS
NT MAGNETOHYDRODYNAMICS
Multigrid semi-implicit hydrodynamics revisited
[DE83-012675] 01 p0081 N84-10526
Activities in hydraulics 02 p0235 N84-11542
Lithium equation-of-state
[DE83-017988] 03 p0347 N84-12253
Feasibility of a laser or charged-particle-beam fusion-reactor concept with direct electric generation by magnetic-flux compression
[DE83-015735] 03 p0381 N84-12482
Using inner-shell X-rays as an ion-beam diagnostic
[DE83-017784] 03 p0436 N84-12857
Hydrodynamic simulations of a combined hydrogen, helium thermonuclear runaway on a 10 km neutron star
[DE83-012658] 03 p0463 N84-13047
Modeling of transient disturbances in coronal-streamer configurations 03 p0474 N84-13119
Environmental impact research program. Two-equation, depth-integrated turbulence closure for modeling geometry-dominated flows
[AD-A132347] 04 p0533 N84-13505
Computation of turbulent reacting flows: Comparison of various mixing/chemistry interaction models
[DE84-000998] 04 p0534 N84-13514
Proceedings of the 4th International Conference on Physicochemical Hydrodynamics
[DE83-012765] 04 p0537 N84-13532
Nonlinear acoustics in a dispersive continuum: Random waves, radiation pressure, and quantum noise 04 p0594 N84-13920
PDF: A computer program for calculation of turbulent combustion utilizing a Probability Density Function (PDF) approach
[DE84-002525] 05 p0651 N84-14278
Effect of hydrodynamic flow on the morphology of electrodeposited zinc
[DE84-001816] 05 p0651 N84-14281
The structure of the internal wave Mach front generated by a point source moving in a stratified fluid
[AD-A133775] 05 p0680 N84-14470
Comparison of steady state transitions in truncated spectral and finite difference models of two-dimensional shallow convection 06 p0832 N84-15417
Two-phase flow studies
[DE84-001727] 06 p0845 N84-15511
Interactive mechanisms of sliding-surface bearings
[AD-A133127] 06 p0852 N84-15556
Alternative experiments using the geophysical fluid flow cell
[NASA-CR-3766] 06 p0877 N84-15706
Program in marine physics applied to Navy undersea missions
[AD-A133119] 06 p0885 N84-15753
Problems in astrophysical radiation hydrodynamics
[DE84-000185] 06 p0939 N84-16102
Dynamic behavior of spiral-groove and Rayleigh-Step self-acting face seals
[NASA-TP-2266] 07 p0953 N84-16181
Wave propagation in fluid lines
[MEAH-26] 07 p1005 N84-16521
Large scale computations
[DE84-002763] 07 p1055 N84-16836
Hydrodynamic lubrication of rigid nonconformal contacts in combined rolling and normal motion
[NASA-TM-83578] 08 p1166 N84-17592
Light ion fusion
[DE84-003767] 08 p1233 N84-18061
Second All-Union Seminar on Hydromechanics and Heat-Mass Transfer in Weightlessness. Abstracts of reports: Table of contents
[NASA-TM-77534] 09 p1312 N84-18576
Superfluid hydrodynamics of inhomogeneous states: Systems with broken gauge-translation-symmetry
[JUEL-1858] 10 p1495 N84-19773
High frequency acoustic instabilities in heated fluids
[DE84-005114] 10 p1575 N84-20324
Scale prevention and removal by hydrodynamic fluid treatment 11 p1640 N84-20721
Laminar condensation heat and mass transfer to a drop moving at intermediate or high Reynolds number 11 p1651 N84-20777
Generation of mesoscale hydrodynamic phenomena by the Grappler and Whiting Seamounts, southeast of Puerto Rico
[PB84-148196] 12 p1863 N84-22140
Rocket motor aeroacoustics 13 p1944 N84-22642
Fluid-dynamically coupled solid propellant combustion instability - cold flow simulation 13 p1945 N84-22644
USSR report: Engineering and equipment
[JPRS-UEQ-84-004] 13 p1967 N84-22772

Hydrodynamic theory of convective transport across a dynamically stabilized diffuse boundary layer — plasma flow
[JUEL-1669] 13 p2046 N84-23275
Hydrodynamic interactions between particles in low-Reynolds-number flow: A modular approach
[AD-A139269] 14 p2146 N84-23859
Documentation of the GLAS fourth order general circulation model. Volume 1: Model documentation
[NASA-TM-86064-VOL-1] 14 p2179 N84-24048
The coupling of tracked and interior waves in a front tracking scheme
[AD-P002944] 14 p2197 N84-24184
A numerical technique in the hydrodynamic theory of foil bearings
[AD-P002966] 14 p2200 N84-24204
Moving finite element research for shock hydrodynamics, continuum mechanics and combustion
[AD-P002970] 14 p2201 N84-24206
Theory of beam channel hydrodynamics
[AD-A139595] 14 p2229 N84-24365
Dynamic analysis of fluid-structure systems
[PB84-162916] 16 p2478 N84-25887
Speeding up the help hydrodynamic code
[MRL-R-925] 16 p2543 N84-26321
Observation of Rayleigh-Taylor-Like structures in a laser-accelerated foil
[AD-A140294] 16 p2556 N84-26399
A comparison of the tube-side performance of enhanced heat transfer tubing for Naval condensers
[AD-A126938] 17 p2667 N84-27006
Movement mechanism of solitary synoptic eddies
17 p2707 N84-27239
On the detection of underwater bottom topography by imaging radars
17 p2718 N84-27301
Modeling of SAR signatures of shallow water ocean topography
17 p2718 N84-27302
Consistent hydrodynamic mass for parallel prismatic beams in a fluid-filled container
[DE84-010381] 18 p2853 N84-28116
Faults and nature of seismic discontinuities in continental crust section
18 p2860 N84-28161
Wave-less free-surface pressure distributions
[AD-A141630] 19 p3024 N84-29176
High image quality sub 100 picosecond gated framing camera development
[DE84-008326] 19 p3028 N84-29203
Groundwater
19 p3038 N84-29269
The production and evaluation of high-strength optical fibre
19 p3104 N84-29717
Atomization of liquid sheets in high pressure airflow
[NASA-TM-83731] 20 p3183 N84-30223
Thermal laminarization of a stratified pipe flow
[DE84-006407] 20 p3185 N84-30236
Dust particles in high speed flows: Calculations of small particle reentry hydrodynamics
[DE84-010998] 20 p3186 N84-30245
INFIL1D: A quasi-analytical model for simulating one-dimensional, constant flux infiltration
[DE84-008905] 20 p3187 N84-30250
Wave uplift pressure on horizontal platforms
[PB84-190628] 20 p3188 N84-30257
The breaking of ocean surface waves
[AD-A142356] 20 p3250 N84-30629
On measuring the acoustic intensity of hydroacoustic sources
[AD-A142484] 20 p3291 N84-30693
Sloshing response of a reactor tank with internals
[DE84-009629] 22 p3595 N84-32766
Existence and equivalence of solutions of mixed problems for Euler's hydrodynamic equations
[ISSN-0208-5658] 23 p3745 N84-33738
Thermodynamic analysis of journal bearings operating under steady state loading in laminar regime
23 p3756 N84-33809

HYDROELASTICITY
La Recherche Aerospatiale bimonthly bulletin, number 1983-3, 214/May-June
[ESA-TT-822] 08 p1226 N84-18014
Cochlear mechanics: Analysis for a pure tone
[AD-A136438] 09 p1386 N84-19055
SRB/FWC water impact: Flexible body loads test
[NASA-CR-171076] 19 p3020 N84-29147

HYDROELECTRIC POWER STATIONS
Hydrologic flow determination for hydropower feasibility analysis
[PB83-219758] 01 p0101 N84-10655
Design and evaluation of small water turbines
[DE84-000404] 04 p0544 N84-13586
Commentary on Columbia River instream flows
[PB84-133651] 10 p1527 N84-20007

HYDROELECTRICITY
Glaciological applications of LANDSAT images in connection with hydropower investigations in West Greenland
03 p0398 N84-12598
Energy technology characterizations handbook: Environmental pollution and control factors, third edition
[DOE/EP-0093] 16 p2511 N84-26117

HYDROFLUORIC ACID
Hydrogen fluoride formation and metal corrosion in freon-contaminated propellants
20 p3137 N84-29921
Measurement of H2O and other trace gases in the stratosphere using a high resolution far-infrared spectrometer at 28 km
[NASA-CR-173879] 22 p3622 N84-32951

HYDROFOILS
Sidewall boundary layer corrections in subsonic, 2-dimensional airfoil-hydrofoil testing
[AD-A144002] 23 p3691 N84-33391

HYDROGEN
NT DEUTERIUM
NT HYDROGEN ATOMS
NT HYDROGEN IONS
NT HYDROGEN ISOTOPES
NT HYDROGEN PLASMA
NT LIQUID HYDROGEN
NT ORTHO HYDROGEN
NT TRITIUM
Data analysis of the LLNL hydrogen igniter experiments
[DE83-010260] 01 p0037 N84-10236
Optimum microstructures for SPF (superplastic forming) using hydrovac
[AD-A130944] 01 p0044 N84-10280
Hydrogen-evolution monitoring as a measure of steam-generator corrosion
[DE83-900677] 01 p0044 N84-10285
Effect of point defects on mechanical properties of metals
[DE83-014989] 01 p0046 N84-10297
Los Alamos mini-review. Numerical calculations of hydrogen-air combustion
[DE83-016508] 02 p0191 N84-11240
Formation of free hydrogen during radiolysis in a bed of clay
[DE83-017724] 03 p0350 N84-12275
Hydrogen-air detonations
[DE83-009289] 03 p0350 N84-12278
Isotope dependence of the breakdown strength of gases
[DE83-017272] 03 p0373 N84-12430
New developments and opportunities for NMR in metal-hydrogen systems
[DE83-017696] 03 p0437 N84-12864
Electron capture and loss cross sections for collisions between heavy ions and hydrogen molecules, revised
[IPPJ-AM-28] 03 p0444 N84-12914
Chemical erosion of first-wall materials by atomic hydrogen at high temperatures
[DE83-017161] 03 p0450 N84-12962
Hydrogen in MgO crystals thermochemically reduced at very high temperatures
[DE83-014058] 03 p0453 N84-12981
The interplanetary hydrogen and helium glow and the inferred interstellar gas properties
03 p0472 N84-13109
Diffusivities of hydrogen in yttrium and yttrium alloys
[DE84-000411] 04 p0503 N84-13296
Origin of electron-bombardment enhanced reactivity of graphite with hydrogen
[DE83-017561] 04 p0600 N84-13960
Neutron measurements and radiation damage calculations for fusion materials studies
[DE83-014790] 04 p0608 N84-14011
Hydrogen pellet injection into Alcator C
[DE83-016878] 04 p0609 N84-14018
Steady-state hydrogen transport in solids exposed to fusion-reactor plasmas. Part 3: Applications of theory
[DE84-001646] 04 p0611 N84-14033
Ionization equilibrium in isolated H 2 regions
04 p0619 N84-14066
Diffusion properties and phase transitions of the metallic glass a-Zr2-PdH-x
[DE83-016626] 05 p0660 N84-14341
Quantitative determination of hydrogen by pulsed nuclear magnetic resonance spectroscopy
[DE84-002831] 06 p0802 N84-15227
Evaluation of CO2 and CO dopants in hydrogen to reduce hydrogen permeation in the Stirling engine heater head tube alloy CG-27
[NASA-TM-83535] 06 p0805 N84-15246
Effects of hydrogen on strength and ductility of tantalum
06 p0807 N84-15260
Kinematics of the structure and morphology during surface reactions between transition metals and molecular hydrogen
06 p0816 N84-15317
Use of scanning electron microscopy in studying surface reactions of metals with hydrogen
06 p0816 N84-15318
An experimental investigation of the structure of a turbulent reattaching flow behind a backward-facing step
06 p0832 N84-15415
Vacuum ultraviolet photofragmentation of H2O and NO2: Laboratory studies and atmospheric applications
06 p0876 N84-15703
Investigation of a para-ortho hydrogen reactor for application to spacecraft sensor cooling
[NASA-CR-175131] 06 p0916 N84-15957
Part 1: Physical studies of distant comets. Part 2: Morphologies of planetary nebulae
06 p0937 N84-16091
Heat transfer for turbulent flow of helium or hydrogen in a tube at high temperatures: Evaluation with the method of Petukhov
[KFK-3593] 07 p1005 N84-16518
Intermediate energy proton stopping power for hydrogen molecules and monoatomic helium gas
07 p1071 N84-16955
Conformal solution methods based on the hard convex body expansion theory, section 1
[PB84-100940] 08 p1128 N84-17332
Development of a solar energy system
[DE83-014236] 08 p1180 N84-17690
De-excitation and equipartition in H2-surface collisions
[DE84-003008] 08 p1229 N84-18031
Hydrogen storage by molecular polyhydrides
[AD-A136431] 09 p1278 N84-18346
Photochemical conversion of H-2Os-3(CO)10(P-Donor) to H-2Os-3(CO)9(P-Donor) in solution and on high surface area silica
[AD-A136991] 10 p1455 N84-19501
Development of the CARS method for measurement of pressure and temperature gradients in centrifuges
[DE84-006321] 11 p1629 N84-20660
Role of microstucture in hydrogen assisted cracking
11 p1631 N84-20667
Simulation of the ignition of a mixture of hydrogen and oxygen
[PML-1983-34] 12 p1790 N84-21676
Theoretical calculation of H/sub 2 S- and Q-branch spectra for propellant flames
13 p1943 N84-22636
Lateral dispersion of a high-energy ion beam in a scattering medium
[UTIAS-278] 14 p2222 N84-24331
CO + H/sub 2 reaction over nitrogen-modified iron catalysts
[DE84-009046] 15 p2288 N84-24727
Determination of weld hydrogen content
[VTT-240] 15 p2296 N84-24777
Effect of sulfuric acid, oxygen, and hydrogen in high-temperature water on stress corrosion cracking of sensitized Type 304 stainless steel
[DE84-007276] 15 p2298 N84-24795
Hydrogen attack mechanisms in a 2-1/4 Cr1 Mo welded steel
16 p2464 N84-25789
Theoretical calculations of H(2) CARS spectra for propellant flames
[AD-A135818] 17 p2619 N84-26758
Fugacity of gaseous hydrogen
[NLR-MP-83038-U] 17 p2669 N84-27019
Electron excitation of vibrational states of D2 and H2 and detection of excited states by laser-induced fluorescence
[AD-A141038] 18 p2846 N84-28070
Thermodynamic and kinetic properties of interstitial solid solutions
[AD-A132783] 18 p2942 N84-28659
Creep-rupture behavior of candidate Stirling engine iron superalloys in high-pressure hydrogen. Volume 2: Hydrogen creep-rupture behavior
[NASA-CR-174705] 19 p2992 N84-28961
Hydrogen storage in the form of metal hydrides
[NASA-TM-77453] 19 p3050 N84-29356
Experimental facilities to study hydrogen combustion and detonation
[DE84-008998] 20 p3149 N84-29997
Coated silica shells: An advanced hydrogen storage system
[DE84-008996] 20 p3163 N84-30088
Method and source for producing a high concentration of positively charged molecular hydrogen or deuterium ions
[DE84-011030] 20 p3295 N84-30918
Stretch effects in plane premixed hydrogen-air flames
[DE84-012035] 21 p3360 N84-31311
Hydrogen transport, mixing, and combustion studies
[DE84-012455] 21 p3360 N84-31317
Chemical kinetics in hydrogen-air flames
[DE84-011002] 21 p3361 N84-31323
Microstructural studies of hydrogen and deuterium in BCC refractory metals
[DE84-011506] 21 p3367 N84-31357
Hydrogen fatigue test — plated bolts
[CETIM-12-F-400] 21 p3369 N84-31373

Crack kinetics of the nickel-hydrogen system
21 p3416 N84-31665
Hydrogen-bond energies of dimer formation and UV absorption spectra of mono-methyl substituted 2-pyridones
21 p3477 N84-32040
Heat transfer by radiation in hydrogen plasma
21 p3486 N84-32106
Effect of feed gas trace components on the SRC-1 hydrogen purification unit
[DE84-012975] 22 p3562 N84-32556
Ultraviolet interstellar absorption toward stars in the small Magellanic cloud
22 p3677 N84-33313
The effect of internal hydrogen on near-threshold fatigue crack propagation in iron base systems
23 p3717 N84-33560
The role of hydrogen in the stress corrosion cracking of 7XXX-series aluminum alloys
23 p3717 N84-33561
Dynamic resonances in the reaction of fluorine atoms with hydrogen molecules
[DE84-013240] 23 p3823 N84-34242
Pioneer 10 and Voyager observations of the interstellar medium in scattered emission of the He584 A and H Lya 1216 A lines
[NASA-CR-173931] 23 p3840 N84-34361
Particle excitation, airglow and H2 vibrational disequilibrium in the atmosphere of Jupiter
[NASA-CR-173930] 23 p3843 N84-34383
Influence of nitrogen-hydrogen-containing media on heat resistance properties of nickel-based alloys
24 p3877 N84-34570
Evaluation of candidate Stirling engine heater tube alloys after 3500 hours exposure to high pressure doped hydrogen or helium
[NASA-TM-83782] 24 p3883 N84-34603
A general survey of the correlation of interstellar element depletion with line-of-sight density indicators
24 p3973 N84-35158
The hydrogen-deficient irregular variable star V348 SGR
24 p3978 N84-35200

HYDROGEN AIR FUEL CELLS
U HYDROGEN OXYGEN FUEL CELLS

HYDROGEN ATOMS
Gravitational perturbation of the hydrogen spectrum
02 p0251 N84-11646
Charge transfer cross-sections for N V and S III ions interacting with hydrogen atoms in astrophysical plasmas
02 p0307 N84-12014
Novel interactions of the charge-balancing cations with framework defects and trapped hydrogen atoms in holmium-exchanged Y zeolites
[DE83-014204] 03 p0433 N84-12839
Cross sections for charge transfers of highly ionized ions in hydrogen atoms
[IPPJ-AM-30] 03 p0443 N84-12912
Measurements of CARS intensity in hydrogen molecule behind shock waves
07 p0984 N84-16375
The hydrogen molecule for a two-dimensional system — doped semiconductors
[INPE-2981-PRE/443] 07 p1071 N84-16958
Atomic hydrogen maser investigations of hydrogen atom interactions from 4 K to 12 K
[AD-A134917] 08 p1165 N84-17582
Atomic hydrogen beam probing with spectroscopic technique
11 p1736 N84-21324
Ionization of polarized hydrogen atoms
[DE84-007378] 14 p2223 N84-24340
Magnetically enhanced hydrogen gas dissociator: A progress report
16 p2479 N84-25892
Theoretical research program to predict the properties of molecules and clusters containing transition metal atoms
[NASA-CR-173924] 22 p3554 N84-32502
A simple DWBA (Franck-Condon) treatment of H-atom transfers between two heavy particles
[AD-A143867] 23 p3822 N84-34236
Effects of neutrals on particle transport of a plasma
[IPPJ-661] 23 p3827 N84-34274

HYDROGEN BOMBS
U FUSION WEAPONS

HYDROGEN BONDS
Structural effects on hydrogen bonding properties of nitro compounds
[AD-A130817] 02 p0190 N84-11232
Intraurethane hydrogen bonding in thermoplastic polyurethane elastomers
[AD-A131368] 02 p0200 N84-11300
C-h and h-h activation in transition metal complexes and on surfaces
[AD-A136468] 09 p1279 N84-18350

HYDROGEN CHLORIDES
NT HYDROCHLORIC ACID
Hydrogen chloride measurements with a Differential Absorption and Scattering (DAS) lidar in the marine atmosphere
23 p3779 N84-33965

HYDROGEN CLOUDS
NT ORION NEBULA

HYDROGEN COMPOUNDS
NT BORANES
NT BOROHYDRIDES
NT BORON HYDRIDES
NT CARBORANE
NT CHLOROSILANES
NT DEUTERIDES
NT DEUTERIUM COMPOUNDS
NT DIHYDRIDES
NT HYDRIDES
NT HYDROCYANIC ACID
NT HYDROGEN PEROXIDE
NT HYDROGEN SULFIDE
NT LITHIUM HYDRIDES
NT METAL HYDRIDES
NT NITROGEN HYDRIDES
NT PHOSPHINES
NT SILANES
NT ZIRCONIUM HYDRIDES
Experimental study and modeling of the kinetics of hydrocarbon combustion
15 p2292 N84-24754

HYDROGEN CYANIDES
U HYDROCYANIC ACID

HYDROGEN EMBRITTLEMENT
Hydrogen trapping by yttrium in low-temperature lithium
[DE83-012721] 02 p0194 N84-11263
Hydrogen embrittlement of a 12 Cr-1 Mo steel
[DE83-016781] 02 p0195 N84-11270
Note on standardization of implant tests
[VTT-RR-189] 02 p0198 N84-11288
Hydrogen compatibility handbook for stainless steels
[DE83-017051] 03 p0354 N84-12301
Grain boundary segregation and environmental degradation of a ferritic stainless steel
[DE83-016927] 04 p0502 N84-13289
Analysis of hydrogen attack on pressure-vessel steels
[DE84-000061] 04 p0504 N84-13301
Hydrogen embrittlement of titanium sheet under multiaxial deformation paths
[AD-A133846] 05 p0654 N84-14298
The nature of quasicleavage fracture in tempered 5.5 ni steel after hydrogen charging
[AD-A133460] 06 p0806 N84-15252
Hydrogen effects in stainless steel
[DE84-003483] 07 p0976 N84-16325
The role of hydrogen in the stress corrosion failure of high strength Al-Zn-Mg alloys
[AD-A136212] 09 p1284 N84-18388
Development of fatigue and crack propagation design and analysis methodology in a corrosive environment for typical mechanically-fastened joints. Volume 2: State-of-the-art assessment
[AD-A136415] 09 p1331 N84-18692
Quasi-cleavage and martensite habit plane
[AD-A137378] 10 p1459 N84-19527
Crack paths and hydrogen-assisted crack growth response in AISI 4340 steel
[AD-A137388] 10 p1459 N84-19528
Environmental reactions and their effects on mechanical behavior of metallic materials
[DE84-005768] 12 p1799 N84-21734
On the limiting electrode potential in cavities and its role in deciding between SCC (Stress Corrosion Cracking) and HC (Hydrogen Cracking) in metals
[AD-A138585] 13 p1955 N84-22713
Solubility of hydrogen in metals and its effect of pore-formation and embrittlement
[NASA-CR-173399] 14 p2127 N84-23751
A detailed comparison of hydrogen and mercury embrittlement in Monel 400
[AD-A139119] 14 p2127 N84-23753
Prediction of long term crevice corrosion and hydrogen embrittlement behavior of ASTM grade-12 titanium — containers for radioactive waste disposal
[DE84-002575] 14 p2128 N84-23759
Influence of the viscous environments on fatigue crack propagation in a lower strength steel
[DE84-006247] 14 p2128 N84-23761
Measurement of hydrogen in high strength steels using the barnacle electrode
[AD-A139655] 15 p2297 N84-24784
Hydrogen effects on cleavage fracture in fully pearlitic 1080 steel
17 p2621 N84-26778
The role of traps in the microstructural control of hydrogen embrittlement of steels
[AD-A141249] 18 p2814 N84-27863
Mechanical properties of metal hydrides
[AD-A141496] 19 p2994 N84-28970
Cadmium plating versus other coatings to prevent corrosion
[AD-A142504] 20 p3153 N84-30022
Theoretical research program to predict the properties of molecules and clusters containing transition metal atoms
[NASA-CR-173924] 22 p3554 N84-32502
Hydrogen embrittlement of titanium and its alloys
24 p3875 N84-34554
Stress corrosion cracking of wrought and P/M high strength aluminum alloys
[AD-A144279] 24 p3884 N84-34606

HYDROGEN ENGINES
Experimental hydrogen-fueled automotive engine design data-base project. Volume 3: Main technical report (appendices)
[DE83-017362] 18 p2848 N84-28086

HYDROGEN FLUORIDES
U HYDROFLUORIC ACID

HYDROGEN FUELS
Experimental hydrogen-fueled automotive engine design data-base project, volume 1
[DE83-017023] 02 p0204 N84-11331
Experimental hydrogen-fueled automotive engine design data-base project. Volume 2: Main technical report
[DE83-017025] 02 p0204 N84-11332
Aerodynamic characteristics, including effect of body shape, of a Mach 6 aircraft concept
[NASA-TP-2235] 04 p0481 N84-13164
Research on alternative fuels
[CSIR-RME-465] 11 p1639 N84-20711
Analysis of a topping-cycle, aircraft, gas-turbine-engine system which uses cryogenic fuel
[NASA-TP-2294] 12 p1771 N84-21549
New technique for calibrating hydrocarbon gas flowmeters
[NASA-TM-85792] 16 p2495 N84-26007
Refueling considerations for liquid-hydrogen fueled vehicles
[DE84-012623] 22 p3562 N84-32557
Activated aluminum alloy for generating hydrogen fuel
23 p3705 N84-33490

HYDROGEN IONS
Observation of multiple ion beams in the magnetotail low latitude boundary layer. Evidence for a double H+ population
[IFSI-82-10] 03 p0409 N84-12676
The 100% alignment of hydrogen excited states in beam-foil spectroscopy
[DE83-017963] 03 p0436 N84-12859
Dependence of the backscattering coefficients of light ions upon angle of incidence
[IPPJ-AM-34] 15 p2409 N84-25459
Extraction of volume produced H(-) or D(-) ions from a sheet plasma 2
[IPPJ-666] 15 p2409 N84-25460
Field ion microscopy and spectroscopy of hydrogen in metals
[DE84-012972] 21 p3368 N84-31366
Pulsed high-current source of negatively charged hydrogen ions
[DE84-012989] 21 p3496 N84-32158
Negative ion formation due to hydrogen plasma surface interaction
[DE84-012259] 22 p3659 N84-33192
Method for fabricating MNOS structures utilizing hydrogen ion implantation
[AD-D011123] 22 p3661 N84-33208

HYDROGEN ISOTOPES
NT DEUTERIUM
NT TRITIUM
Review of hydrogen isotope permeability through materials
[DE84-007362] 12 p1794 N84-21696
Operating conditions for the Hydrogen/Deuterium triplet lasers
[AD-A141388] 19 p3029 N84-29210
Method of enhancing selective isotope desorption from metals
[DE84-011031] 20 p3156 N84-30044
Metastable complexes of helium-hydrogen isotopes
[DE84-009995] 21 p3496 N84-32160

HYDROGEN MASERS
The characteristics of OH/IR objects, infrared stars with OH maser emission
[IA-PUBL-95] 01 p0164 N84-11078
Atomic hydrogen maser investigations of hydrogen atom interactions from 4 K to 12 K
[AD-A134917] 08 p1165 N84-17582
The Telecommunications and Data Acquisition Report
[NASA-CR-173263] 10 p1473 N84-19621
X-band uplink ground systems development
10 p1474 N84-19626
First results of GPS time transfer to Australia
10 p1475 N84-19635
Detailed design of a variable volume hydrogen maser
[NASA-CR-175221] 11 p1662 N84-20841

Atomic hydrogen for low temperature atomic hydrogen masers and in-vacuum dissociators for VLG-11 series masers
[NASA-CR-173506] 14 p2150 N84-23880

HYDROGEN OXYGEN ENGINES

Recommendations for future research on fracture mechanics life technology
[NASA-CR-170904] 08 p1169 N84-17615
An experimental and analytical study on spray flow field by liquid/gas coaxial injector elements. 3: Application for the combustion performance prediction model of LO2/LH2 rocket combustion
[NAL-TR-769] 09 p1274 N84-18317
NASA Orbit Transfer Rocket Engine Technology Program
[NASA-CR-168156] 19 p2983 N84-28901
Methane heat transfer investigation
[NASA-CR-171051] 19 p3001 N84-29018
Retardation analytical model to extend service life
[NASA-CR-173891] 22 p3608 N84-32862

HYDROGEN OXYGEN FUEL CELLS

Design considerations for a 10-kW integrated hydrogen-oxygen regenerative fuel cell system
[NASA-TM-83664] 13 p2008 N84-23023
Regenerative hydrogen-oxygen fuel cell-electrolyzer systems for orbital energy storage
23 p3735 N84-33670

HYDROGEN PEROXIDE

State-to-state unimolecular reaction dynamics
[DE84-003009] 06 p0916 N84-15952
Acidification of rain by the oxidation of dissolved SO2 and the absorption of HNO3
[PB84-168368] 15 p2367 N84-25200
Studies in atmospheric chemistry. Part 1: Primary peroxides from hydrocarbons. Part 2: elemental analysis using nuclear reactions
[DE84-012246] 21 p3445 N84-31857
Measurement of H2O and other trace gases in the stratosphere using a high resolution far-infrared spectrometer at 28 km
[NASA-CR-173879] 22 p3622 N84-32951

HYDROGEN PLASMA

A numerical model for diffusion of helium in a hydrogen plasma
[REPT-83-147] 03 p0450 N84-12964
Hydrogen ignition for laser propulsion
06 p0926 N84-16026
Stark spectroscopy of hydrogen lines in turbulent plasma. 1: Low-frequency turbulence
[DE84-004443] 11 p1737 N84-21333
Dense Coulomb plasmas: Quantum statistics and ordering 15 p2410 N84-25464
Protective plasma envelope
[DE84-013316] 21 p3502 N84-32194
Negative ion formation due to hydrogen plasma surface interaction
[DE84-012259] 22 p3659 N84-33192
Numerical analysis on the ion species ratios in a steady state hydrogen plasma
[IPPJ-687] 23 p3826 N84-34269

HYDROGEN PRODUCTION

Carbonaceous anode depolarizers for electrolytic hydrogen production
[DE83-013278] 01 p0053 N84-10343
Overview of US activities in IEA hydrogen technology. Annex 4: Electrolytic hydrogen production
[DE83-013064] 01 p0053 N84-10344
Production of hydrogen by cyanobacteria
[PB83-228379] 01 p0054 N84-10347
Chemical/hydrogen energy systems
[DE83-012145] 02 p0204 N84-11328
Immobilized chloroplast-ferredoxin-hydrogenase system for the simultaneous photoproduction of hydrogen and oxygen
[DE83-015703] 02 p0205 N84-11333
Development of electrolysis-cell separator for 1250C operation. Advanced alkaline electrolysis cell development
[DE84-000439] 04 p0530 N84-13484
Analysis and modeling of photosynthetic bacterial hydrogen production plants
[DE84-000003] 04 p0570 N84-13758
physico-chemical investigation of some areas of fundamental significance to biophysics
[DE83-017404] 07 p1043 N84-16761
Development of a solar energy system: Executive summary
[DE83-014392] 08 p1181 N84-17693
Intramolecular energy transfer reactions as a method for metal complex assisted production of hydrogen
[DE84-004762] 10 p1456 N84-19510
Study of systems and technology for liquid hydrogen production independent of fossil fuels
[NASA-CR-173422] 13 p1965 N84-22768
Photosynthetic water splitting, phase 1
[DE84-006847] 14 p2124 N84-23729
Activities of the Hydrogen Energy Coordinating Committee: Summary of DOE hydrogen programs for FY 1983
[DE84-007016] 14 p2172 N84-24011
Solar-assisted hydrogen generation by photoelectrocatalysis: Electric birefringence and ellipsometric spectroscopy of the semiconductor/electrolyte interface
[PB84-169804] 15 p2288 N84-24731
High temperature electrolysis of water vapor: HOT ELLY, phase 2A
[BMFT-FB-T-84-032] 16 p2463 N84-25784
Reassessment of the OHZ process for the thermochemical decomposition of water
[DE84-007806] 18 p2812 N84-27849
Photovoltaic-electrolyzer system transient simulation results
[DE84-010217] 20 p3149 N84-29995
Engineering scoping study of the production of hydrogen and oxygen from the cerium oxide-sodium phosphate/carbonate thermochemical cycle
[DE84-010629] 20 p3150 N84-29998
Chemical-hydrogen energy systems
[DE84-012876] 20 p3167 N84-30112
Steam reforming of fuel to hydrogen in fuel cell
[DE84-011115] 20 p3181 N84-30205
Photo/Biological Hydrogen Principal Investigators Review Meeting: Proceedings of the May 1983 Program Review
[DE84-000083] 20 p3235 N84-30536
Activities at the Brookhaven National Laboratory integrated test bed for advanced hydrogen technology
[DE84-010226] 21 p3374 N84-31409
Water vapor electrolysis: Systems considerations and cost/performance benefits
[DE84-007389] 21 p3374 N84-31410
Rationale for US DOE energy storage program in hydrogen technology
[DE84-010225] 21 p3374 N84-31411
Economics of hydrogen production: The next 25 years
[DE84-007279] 21 p3374 N84-31414
Summary status of advanced water electrolysis and hydrogen storage/transport research and development
[DE84-012908] 22 p3547 N84-32456
Liquid suspensions of reversible metal hybrides
[DE84-014358] 24 p3881 N84-34586

HYDROGEN RECOMBINATIONS

Rationalizing the hydrogen sites in Pd3P sub 1-xH sub y
[DE84-009159] 19 p3112 N84-29774
Liquid suspensions of reversible metal hybrides
[DE84-014358] 24 p3881 N84-34586

HYDROGEN SULFIDE

Hydrogen sulfide provisional thermophysical properties from 188 to 700 K at pressures to 75 MPa
[PB84-122704] 08 p1127 N84-17329
Experimental study of the fluxes of reduced sulfur gasses from a salt water marsh
[PB84-159318] 14 p2181 N84-24064
Studies involving high temperature desulfurization/regeneration reactions of metal oxides for fuel cell development
[DE84-003096] 18 p2876 N84-28261
Effects of H2S on molten carbonate fuel cells
[DE84-010485] 20 p3234 N84-30531

HYDROGEN 2

U DEUTERIUM

HYDROGEN 3

U TRITIUM

HYDROGENATION

Study of materials having significance for high energy magnet production and for hydrogen storage
[AD-A130900] 01 p0138 N84-10906
Preparation of a design study for the construction of a 2 million tons/annum commercial scale hydrogenation plant
[BMFT-FB-T-83-135] 03 p0405 N84-12652
Selective catalytic hydrogenation of polynuclear heteroaromatic nitrogen compounds with polymer-supported transition-metal compounds
[DE84-001326] 04 p0495 N84-13248
Surface studies of WO3/Al2O3 and Ni/W/Al2O3 catalysts
[DE84-000930] 05 p0651 N84-14283
Promoter modifications of catalytic activity and selectivity
[DE84-003179] 07 p0970 N84-16287
Correlations between surface structure and catalytic reactivity for alkane hydrogenolysis over nickel
[DE84-002610] 07 p0971 N84-16292
Hydrotreating of coal derived liquids
[BMFT-FB-T-83-175] 07 p0973 N84-16304
Metal-support interactions: Their effects upon adsorption, electronic, and activity/selectivity properties of cobalt in CO hydrogenation
[DE83-013012] 10 p1457 N84-19516
Geometric rationale for hydrogenated Pd3P/sub 1-x
[DE84-006737] 13 p2048 N84-23286
Observations of damage and transport of hydrogen in ion bombarded polycrystalline silicon
[DE84-008035] 14 p2243 N84-24466
Mechanistic studies related to the metal catalyzed reduction of carbon monoxide to hydrocarbons
[DE84-007963] 15 p2266 N84-24729
Mechanistic studies of catalytic methanol synthesis
[DE84-008380] 21 p3359 N84-31308
Crystallite size and support effects on CO hydrogenation reactions
[DE84-012474] 21 p3360 N84-31314
Study of the kinetics of hydrogenation using aged catalysis
[DE84-006588] 21 p3362 N84-31330
Development of a polysilicon process based on chemical vapor deposition, phase 1 and phase 2
[NASA-CR-173957] 23 p3786 N84-34015
Process Research of Poycrystalline Silicon Material (PROPSM)
[NASA-CR-173934] 23 p3788 N84-34026
Process Research of Polycrystalline Silicon Material (PROPSM)
[NASA-CR-173935] 23 p3789 N84-34033

HYDROGENOLYSIS

Development of catalysts for the utilization of carbon monoxide
[DE84-005475] 11 p1629 N84-20659

HYDROGEOLOGY

Fluvial drainage systems: Margaritifer Sinus and Agyre (NC, NE) quadrangles, Mars 13 p2083 N84-23497
A regression model for the temporal development of soil pipes and associated gullies in the alluvial-fill valley of the Rio Puerco, central New Mexico
13 p2084 N84-23502
Experiments examining the shapes of isolated bars in comparison with those occurring in braided rivers
13 p2084 N84-23503
The erosion of streamlined islands, longitudinal grooves and scour marks: Implications to the origin of the Martian outflow channels 13 p2084 N84-23504
Hydrogeological and hydrometeorological precursors of Ashkhabad catastrophic earthquake
17 p2705 N84-27228
Symposium Proceedings: A National program for the assessment and development of the mineral resources of the United States Exclusive Economic Zone
[US-CIRC-929] 18 p2866 N84-28192
Chapter 6: The US Geological Survey program and plans in the EEZ 18 p2866 N84-28193
Groundwater 19 p3038 N84-29269
Polar glaciology 20 p3218 N84-30445
Geothermal potential along the Balcones/Ouachita trend, central Texas: Ongoing assessment and selected case studies
[DE84-010826] 20 p3241 N84-30578
Hydrogeology, digital solute-transport simulation, and geochemistry of the Lower Cretaceous aquifer system near Baltimore, Maryland 21 p3425 N84-31728
Geologic and hydrologic research on the Moana geothermal system, Washoe County, Nevada
[DE84-012409] 21 p3431 N84-31770
Geology hydrology and mineral resources of crystaline rock areas of Northeastern US
[DE84-013671] 21 p3432 N84-31774
Geology of the Portrerillos District, Atacama, Chile
21 p3438 N84-31811
Response of alluvial rivers to active tectonics
21 p3438 N84-31812
Geochemistry of oil shale leachates and interaction with geologic substrates, Piceance Creek Basin, Colorado
21 p3440 N84-31825
Geomorphology and hydrogeology of the Edwards Plateau karst, central Texas 23 p3796 N84-34071

HYDROGRAPHY

User requirements and a high level design of the hydrographic software/data processing subsystem of an airborne laser hydrography system
[PB83-228569] 01 p0127 N84-10830
Hydrographic survey requirements system (HYSUR)
[AD-A131115] 02 p0240 N84-11573
Data validation and summary for the NRL remote sensing experiment, Phelps Bank, July 1982. Part 1: Hydrography
[AD-A132083] 05 p0697 N84-14575
Handling and processing of hydrographic data
[REPT-111] 07 p1041 N84-16751
Hydrographic station data of five surveys of the beta-triangle in the eastern North Atlantic, 1978 - 1981
[PB84-100874] 08 p1196 N84-17800

An error analysis of range-azimuth positioning
[AD-A136775] 10 p1525 N84-19990
Results of field observations of radio waves in alluvial deposits in Cara state from 1:100.000: Fortaleza, Canirde, Tapenuaba, Santa Quiteria, Sobral, and Sao Luiz do Curu
[INPE-3061-NTE/216] 16 p2509 N84-26100
Forming of upper homogeneous layer in Mediterranean basin 17 p2699 N84-27195
Canyon and slope processes study. Volume 2: Physical processes
[PB84-169499] 17 p2738 N84-27392
Infiltration and soil moisture redistribution in HEC-1
[AD-A141626] 19 p3041 N84-29295
The use of satellite and aircraft SAR to detect and chart hazards to navigation
[AD-A141658] 19 p3041 N84-29296
Geomorphic approach to hydrograph synthesis, with potential for application to ungaged watersheds
[PB84-190115] 22 p3615 N84-32904
Hydrographic measurements in the western Arboran Sea, October 1982
[AD-A143588] 22 p3627 N84-32985
Calculation of flood hydrographs using satellite-derived land-use information in the Dreisam watershed, S. W. Germany 23 p3771 N84-33904
Arctic physical oceanography
[AD-A144596] 24 p3935 N84-34909

HYDROKINETICS
U HYDROMECHANICS

HYDROLOGY
NT HYDROGEOLOGY
Hydrologic flow determination for hydropower feasibility analysis
[PB83-219758] 01 p0101 N84-10655
LANDSAT-D investigations in snow hydrology
[E84-10004] 02 p0235 N84-11545
Aircraft remote sensing of soil moisture and hydrologic parameters, Taylor Creek, Florida, and Little River, Georgia, 1979 data report
[E84-10010] 02 p0236 N84-11548
Snowpack ground-truth manual
[NASA-CR-170584] 02 p0239 N84-11569
Ecological models of the Mississippi Deltaic Plain Region: Data collection and presentation
[PB83-239012] 02 p0245 N84-11604
Summaries of physical research in the geosciences
[DE83-017885] 04 p0550 N84-13624
Application of remote sensing to hydrological problems and floods
[E84-10046] 04 p0553 N84-13639
Development of design hyetographs for southern Nevada
[DE84-001227] 04 p0554 N84-13649
Proceedings of the 3rd LAN-Transport Workshop. Report of the third workshop for local area network implementors of the NBS specifications of the International Standards Organization transport class 4 protocol: Special interest group on file transfer protocol
[PB83-251348] 04 p0555 N84-13657
Parametric model for peak flow prediction in ungaged ephemeral watersheds
[PB83-249696] 04 p0555 N84-13658
Ocean color studies from Salyut-7 05 p0833 N84-14164
Introduction: Historical perspective on the HCMM program 05 p0695 N84-14564
Significant results from the HCMM program 05 p0696 N84-14568
LANDSAT-D investigations in snow hydrology
[E84-10074] 07 p1021 N84-16621
The effects of vegetation and soil hydraulic properties on passive microwave sensing of soil moisture: Data report for the 1982 field experiments
[NASA-TM-85106] 07 p1023 N84-16633
Geological and geochemical controls on the chemical evolution of subsurface water in undisturbed and surface-mined landscapes in western North Dakota
[PB84-126952] 08 p1180 N84-17685
Proceedings of the 18th International Conference on Coastal Engineering
[ISBN-0-7988-2553-7] 08 p1194 N84-17783
Data documentation for the bare soil experiment at the University of Arkansas, June - August 1980
[NASA-CR-173325] 09 p1336 N84-18725
Water resources data for New Jersey, water year 1982. Volume 2: Delaware River Basin and tributaries to Delaware Bay
[PB84-119734] 09 p1338 N84-18737
Water resources data for New York, water year 1982. Volume 1: Eastern New York excluding Long Island
[PB84-114198] 09 p1339 N84-18744
Great lakes monthly hydrologic data
[PB84-114545] 09 p1339 N84-18745
Water resources data for South Dakota, water year 1982
[PB84-117175] 09 p1339 N84-18748
Water resources data for Louisiana, water year 1982. Volume 1: Central and Northern Louisiana
[PB84-118546] 09 p1339 N84-18750
Water resources data for Alaska, water year 1982
[PB84-119569] 09 p1340 N84-18753
Water resources data for West Virginia, water year 1982
[PB84-120161] 09 p1340 N84-18754
Water resources data for Utah, water year 1982
[PB84-120484] 09 p1340 N84-18756
Geostatistics software user's manual for the Geosciences Research and Engineering Department PDP 11/70 computer
[DE84-004149] 09 p1369 N84-18940
Water resources data for New York, water year 1982. Volume 3: Western New York
[PB84-119544] 10 p1527 N84-20003
Water resources data for Colorado, water year 1982. Volume 2: Colorado River Basin above Dolores River
[PB84-120138] 10 p1527 N84-20004
Water resources data: Iowa water year, 1982
[PB84-137215] 10 p1528 N84-20009
Evidence for acid-precipitation-induced trends in stream chemistry at hydrologic bench-mark station
[USGS-CIRC-910] 10 p1531 N84-20029
Water level measurement network computer file
[DE84-005368] 11 p1672 N84-20909
A stochastic method in hydraulic design of open channels
[PREPRINT-790] 12 p1817 N84-21845
Research highlights from the Earth Sciences Division
[DE84-003916] 12 p1828 N84-21916
The water balance and climate
[INPE-2997-PRE/449] 12 p1859 N84-22114
LANDSAT-D investigations in snow hydrology
[E84-10094] 13 p2003 N84-22997
Atmospheric model development 13 p2004 N84-22998
Scientific activity in hydrology, 1979-1982 13 p2005 N84-23010
Incorporation of remotely sensed soil moisture data into a hydrologic runoff model 13 p2007 N84-23017
Hydrology of the North Slope, Alaska 14 p2166 N84-23973
Relationship of regional water quality to aquifer thermal energy storage
[DE84-006649] 14 p2169 N84-23992
Guide to hydrological practices. Volume 2: Analysis, forecasting and other applications
[WMO-168] 15 p2358 N84-25145
Long-term hydrologic monitoring program. Rulison Event Site, Grand Valley, Colorado
[DE84-008210] 15 p2368 N84-25212
Hydrologic simulation program. FORTRAN: Development, maintenance and application
[PB84-168418] 16 p2511 N84-26114
Meteorologic report based on the work of Oosterscheldewerken
[KNMI-TR-45] 16 p2529 N84-26236
Computerized hydrologic research complex 'Gidrozond' 18 p2858 N84-28139
Outlook for improved numerical weather prediction using satellite data with a special emphasis on the hydrological variables
[AD-A141233] 18 p2880 N84-28344
Preliminary guide to the onsite identification and delineation of the wetlands of Alaska
[AD-A142091] 19 p3042 N84-29299
Snow reflectance from LANDSAT-4 Thematic Mapper 20 p3216 N84-30426
Comparison of land cover information from LANDSAT Multispectral Scanner (MSS) and airborne Thematic Mapper Simulator (TMS) data for hydrologic applications 20 p3216 N84-30431
Earth Observing System. Volume 1, part 2: Science and mission requirements. Working group report appendix
[NASA-TM-86129-VOL-1-PT-2] 20 p3217 N84-30433
Global hydrologic cycle 20 p3217 N84-30434
Thermal ground water flow systems in the thrust zone in southeastern Idaho
[DE84-011596] 20 p3229 N84-30517
Estimation of recharge in a small southern Arizona basin by means of hydrological, hydrochemical, and environmental isotope data
[PB84-159672] 20 p3230 N84-30527
Phase modulator in 41.650 MHz
[INPE-3177-PRE/544] 21 p3391 N84-31515
Geology, hydrology, and mineral resources of crystalline rock areas of the Lake Superior region, US, part 1 --- Michigan, Wisconsin, and Minnesota
[DE84-012682] 21 p3432 N84-31775
Environmental impact research program. An implicit, wiggle-free, and accurate upstream finite-difference algorithm for the 1-dimensional transport-diffusion equation
[AD-A143141] 21 p3436 N84-31802
Agriculture and water use: Present and future issues
[GPO-30-599] 22 p3614 N84-32897
DCP systems and characteristics
[INPE-2948-PRE/431] 22 p3614 N84-32899
Geology, hydrology, and mineral resources of crystalline rock areas of the northeastern United States
[DE84-013672] 22 p3614 N84-32901
On the use of meteorologic satellites in hydrology
[INPE-2879-PRE/404] 23 p3763 N84-33851
Summary of geothermal exploration activity in the State of Washington from 1978 - 1983
[DE84-014863] 23 p3784 N84-33999
Report of the Meeting of Experts on the Design of a Pilot Atmospheric-Hydrological Experiment for the WCRP
[WCP-76] 23 p3801 N84-34100
A national program for data collection platforms: Information techniques for users
[INPE-3137-NTE/219] 24 p3858 N84-34456
East European report: Science and technology
[JPRS-ESA-84-031] 24 p3960 N84-35071
Current concerns in fields of hydrology, meteorology 24 p3960 N84-35076

HYDROLOGY MODELS
Remote sensing and hydrologic models
[E84-10082] 07 p1022 N84-16628
Review of hydrologic models for evaluating use of remote sensing capabilities 07 p1022 N84-16629
Strategies for using remotely sensed data in hydrologic models 07 p1022 N84-16630
Commentary on Columbia River instream flows
[PB84-133651] 10 p1527 N84-20007
A note on the temporal behavior of bucket hydrologies 12 p1858 N84-22103
Integration of LANDSAT land cover data into the Saginaw River basin geographic information system for hydrologic modeling
[AD-A140185] 16 p2510 N84-26106
A method to combine remotely sensed and in situ measurements: Program documentation
[E84-10172] 21 p3426 N84-31735
A geographic information system for regional hydrologic modeling 22 p3613 N84-32891
A splash and sheet erosion model from LANDSAT data 23 p3771 N84-33903

HYDROLYSIS
Hydrothermal stability of gamma-aminopropyltriethoxysilane coupling agent on ground silicon powder and E-glass fibers
[AD-A130904] 01 p0037 N84-10234
Effects of surface area and pore size upon liquid chromatographic fractionations of polystyrene oligomers using ethylphenyl derivatized silicas
[DE83-014632] 01 p0051 N84-10327
Sol-gel transition in simple silicates, 2
[DE83-013975] 01 p0051 N84-10329
Temperature dependence of hydrolysis of polyimide wire insulation
[AD-A131334] 02 p0200 N84-11301
Structure-activity correlations for organophosphorus ester anticholinesterases. Part 2: CNDO/2 calculations applied to ester hydrolysis rates
[NASA-TM-85888] 07 p0966 N84-16257
Hydrolysis of plastic wastes with the aim of recovering and reprocessing the starting components (recycling)
[BMFT-FB-T-83-199] 08 p1126 N84-17322
Temperature-resistant elements for reverse osmosis treatment of hot process waste
[DE84-005190] 10 p1456 N84-19507
High temperature oxide electrolytes for the splitting of water. The ROC process 11 p1740 N84-21351
Chemical deposition of SiO2 on InP
[AD-A138355] 12 p1914 N84-22472
Hydrolytic degradation of Kevlar 49 fibers
[DE84-004158] 13 p1954 N84-22705
Hydrolytic degradation of kapton film
[AD-A139016] 13 p1964 N84-22762
Interactions between F-111 fuselage fuel tank sealants. Part 1: Characterisation of polyester sealants and their hydrolytic degradation products
[MRL-R-857-PT-1] 16 p2470 N84-25828
Lead zirconate-lead titanate (PZT) ceramics from organic-derived precursors
[DE84-009921] 20 p3164 N84-30095
Evaluation of sulfuric acid hydrolysis processes for alcohol fuel production
[DE84-004524] 23 p3715 N84-33548

HYDROMAGNETIC FLOW
U MAGNETOHYDRODYNAMIC FLOW

HYDROMAGNETIC STABILITY
U MAGNETOHYDRODYNAMIC STABILITY

HYDROMAGNETIC WAVES
U MAGNETOHYDRODYNAMIC WAVES
HYDROMAGNETICS
U MAGNETOHYDRODYNAMICS
HYDROMAGNETISM
U MAGNETOHYDRODYNAMICS
HYDROMECHANICS
NT ELASTOHYDRODYNAMICS
NT ELECTROHYDRODYNAMICS
NT HYDRODYNAMICS
NT HYDROSTATICS
NT MAGNETOHYDRODYNAMICS
The 400-Hz aircraft power-generation systems: Advancing the baseline 01 p0010 N84-10056
The 400 Hz generators evolution, effects on installation arrangements 03 p0336 N84-12186
Hydromechanics and heat and mass exchange in weightlessness (Russian book): Table of contents [NASA-TM-77533] 10 p1490 N84-19743
HYDROMETALLURGY
Precipitation of metals from solutions by baser metals [CSIR-1712] 06 p0804 N84-15242
Study of the recovery of valuable metal starting materials from steelsworks slag [BMFT-FB-T-83-183] 10 p1532 N84-20034
HYDROMETEOROLOGY
NT MARINE METEOROLOGY
Development of a technique for short-term prediction of hydrometeors using advection and physical forcing [AD-A132259] 04 p0567 N84-13740
Water balance at a small watershed during the snowmelt season, 1 15 p2354 N84-25123
Water balance at a small watershed during the snowmelt season. 2: Runoff analysis 15 p2354 N84-25124
Quasibiennial cycle of thermodynamic atmosphere-ocean interaction in North Atlantic 17 p2700 N84-27198
Hydrogeological and hydrometeorological precursors of Ashkhabad catastrophic earthquake 17 p2705 N84-27228
Weather modification technology shown at all-union conference 18 p2855 N84-28133
Topics in cloud physics relevant to radar meteorology 18 p2887 N84-28326
SNOW-ONE-A and B characterization measurements and data analysis [AD-A141245] 18 p2890 N84-28345
Measurements inside Oklahoma thunderstorms [PB84-206911] 21 p3450 N84-31891
Satellite telemetry [INPE-2854-PRE/394] 23 p3699 N84-33444
Retrieval of thermal and microphysical variables in observed convective storms 23 p3799 N84-34089
HYDROMETERS
Modern hygrometer. Is it an alternative to psychrometric humidity measurement? 02 p0234 N84-11535
Preliminary indications of water film distribution and thickness on an airfoil in a water spray [NASA-TM-85796] 18 p2785 N84-27677
HYDROPHONES
Transmission lines with very lossy conductors and seawater return [AD-A130739] 01 p0065 N84-10427
A timing and memory sizing study for wavenumber analyzer [AD-A135581] 09 p1318 N84-18611
Development of an advanced ocean-bottom sensor system [AD-A135901] 09 p1345 N84-18788
Spectral analyses of high-frequency Pn, Sn phases from very shallow focus earthquakes [AD-A137778] 11 p1681 N84-20973
Ocean bottom seismograph operation: Certain problems of procedure 19 p3060 N84-29415
Synthesis of arbitrary broadband signals for a parametric array [AD-D011021] 19 p3100 N84-29691
Fiber optic bundle towed array [AD-D011034] 19 p3105 N84-29724
Fiber optic lever towed array [AD-D011047] 19 p3105 N84-29727
HYDROPLANING
Modified reflex-percussive grooves for runways [AD-A143569] 22 p3538 N84-32400
HYDROPONICS
Inorganic analysis in a controlled ecological life support system [NASA-CR-173299] 08 p1204 N84-17852
HYDROPOWER STATIONS
U HYDROELECTRIC POWER STATIONS
HYDROSPHERE (EARTH)
U EARTH HYDROSPHERE
HYDROSTATIC PRESSURE
Further results on the predictions of collapse pressure of a ring stiffened cylindrical shell subject to hydrostatic pressure [AD-A130877] 01 p0095 N84-10619
CTD transect of the Kuroshio Extension 27-42 deg N, 152 deg E [AD-A131329] 01 p0111 N84-10721
Effects of pressure on deep electronic levels in semiconductors [DE83-016247] 02 p0299 N84-11965
Low frequency Raman spectra of V-B2O3 as a function of temperature and pressure [AD-A132699] 05 p0649 N84-14270
Method and apparatus for simulating gravitational forces on a living organism [NASA-CASE-MSC-20202-1] 07 p1050 N84-16803
Stresses round a circular hole in a uniform plate subject to hydrostatic compression, under various conditions of support, in plane stress and plane strain — buried pipes [OUEL-1497/83] 12 p1827 N84-21910
Mechanical properties of silicone rubber in a closed volume [AD-A138129] 18 p2818 N84-27890
Empirical and dynamic modes in the CCS (California current system) [AD-A141047] 18 p2892 N84-28357
Underwater depth telemetry [AD-D011054] 22 p3541 N84-32418
Association and bound motion in alkali metal doped cadmium fluoride [AD-A143200] 22 p3548 N84-32450
Pressure-dependent resistive behavior of YbBe13 [DE84-010068] 22 p3555 N84-32514
Method and apparatus for measuring shear modulus and viscosity of a monomolecular film [DE84-014502] 23 p3761 N84-33841
HYDROSTATICS
Vulcanizate structure of isoprene chloroprene rubber combination [CSIR-TRANS-1646] 01 p0048 N84-10312
The mechanism of meteorological noise [PB83-241489] 02 p0257 N84-11681
Strength of hard alloy elements of high pressure apparatus for synthesis of superhard materials 12 p1785 N84-21647
Stresses round a circular hole in a uniform plate subject to hydrostatic compression, under various conditions of support, in plane stress and plane strain — buried pipes [OUEL-1497/83] 12 p1827 N84-21910
Design of a linear projector for use with the normal modes of the GLAS 4th order GCM 12 p1853 N84-22070
Solving statics problems of thick-walled cylindrical shells with loose contact between layers 13 p1973 N84-22805
Work capsule for lightweight hydrostatic machines [CSIR-RR-581] 13 p1988 N84-22905
An experimental study of an ultra-mobile vehicle for off-road transportation [AD-A141323] 18 p2849 N84-28091
Computation of the fluid-borne noise in hydrostatic systems and ways to decrease it [BMFT-FB-HA-84-023] 21 p3403 N84-31593
NASTRAN structural model for the large 64-meter antenna pedestal. Part 3: Applications to hydrostatic bearing oil film 22 p3574 N84-32638
Variational objective analyses for cyclone studies 24 p3924 N84-34840
HYDROTHERMAL STRESS ANALYSIS
Hygrothermal influence on delamination behavior of graphite/epoxy laminates [NASA-TM-85935] 12 p1826 N84-21904
HYDROTHERMAL SYSTEMS
Surface modification of some titanate minerals subjected to hydrothermal chemical attack [AERE-R-10799] 01 p0039 N84-10249
Sperry Low Temperature Geothermal Conversion System, Phase 1 and Phase 2. Volume 3: Systems description [DE84-008042] 18 p2876 N84-28260
Proposed scientific activities for the Salton Sea scientific drilling project [DE84-012256] 20 p3243 N84-30586
Water geochemistry of hydrothermal systems, Wood River District, Idaho [DE84-012190] 21 p3431 N84-31769
Argillic alteration associated with the Amethyst Vein System, Creede Mining District, Colorado 21 p3441 N84-31832
HYDROX ENGINES
U HYDROGEN OXYGEN ENGINES
HYDROXIDES
NT POTASSIUM HYDROXIDES
NT SODIUM HYDROXIDES
Chemical and electrochemical properties in molten alkaline hydroxides. 2: Oxidising/reducing reactions of oxygen [BLL-RISLEY-TR-4775-(9091.9F)] 01 p0036 N84-10227
Chemical and electrochemical properties in molten alkaline hydroxides [BLL-RISLEY-TR-4854-(9091.9F)] 08 p1123 N84-17298
Chemical and electrochemical properties in molten alkaline hydroxides. 3: Oxide and acid complexes of some metallic cations [BLL-RISLEY-TR-4858-(9091.9F)] 08 p1123 N84-17299
Ultraviolet OH emissions in H2-air diffusion flames 13 p1942 N84-22629
Kinetic studies of atmospheric reactions of OH radicals 13 p2012 N84-23050
Kinetics and products of the reaction OH + HNO3 13 p2012 N84-23051
Aluminum-air research and development program. Summary report for FY 1982 [DE84-008380] 14 p2142 N84-23848
Investigation of the role of sintering in gas-solid interactions [DE84-010662] 20 p3163 N84-30089
HYDROXYCORTICOSTEROID
NT CORTISONE
HYDROXYL COMPOUNDS
NT ALCOHOLS
NT BISPHENOLS
NT ETHYL ALCOHOL
NT GLYCOLS
NT ISOPROPYL ALCOHOL
NT METHYL ALCOHOLS
NT PHENOLS
NT POLYVINYL ALCOHOL
A study of Beta-hydroxyamines and Beta-hydroxysulphides as corrosion inhibitors for metals [BLL-T8313/BG/WH773/84] 22 p3552 N84-32487
Urinary excretion of hydroxylysyl glycosides as an index of bone metabolism 23 p3808 N84-34143
HYDROXYL EMISSION
Analysis of hydroxyl data from comet Austin 1982g 24 p3981 N84-35223
HYDROXYL RADICALS
Kinetic studies of the reactions of CH3O2 with NO2 and OH with HNO3 [AD-A130922] 01 p0105 N84-10685
The characteristics of OH/IR objects, infrared stars with OH maser emission [IA-PUBL-95] 01 p0164 N84-11078
Characterization of hydroxylammonium nitrate (HAN) at various pressures and temperatures [AD-A131574] 02 p0203 N84-11324
Copernicus observational searches for OH and H2O in diffuse clouds [NASA-CR-170601] 02 p0305 N84-12004
Early mechanisms in radiation-induced biological damage [DE84-001511] 04 p0572 N84-13765
Technique for the rapid generation of OH radicals behind shock waves and its application to the study of combustion kinetics [DE84-003183] 06 p1126 N84-17317
Two photon excitation as a tool for atmospheric and kinetic research [NASA-CR-175378] 08 p1228 N84-18026
The role of surface generated radicals in catalytic combustion 11 p1613 N84-20555
Shot noise limited detection of OH using the technique of laser induced fluorescence [NASA-CR-175433] 11 p1662 N84-20644
Thermal bifurcation in the upper solar photosphere inferred from heterodyne spectroscopy of OH rotational lines [NASA-TM-86128] 17 p2781 N84-27654
Detection of NH-2O-radicals by far-infrared laser magnetic resonance spectroscopy [MPIS-6/1984] 20 p3151 N84-30010
Temperature dependence of the Raman OH-stretching overtone from liquid water [AD-A143131] 21 p3359 N84-31305
Protected ethynylated phenols [AD-D011096] 22 p3560 N84-32544
Measurement of H2O and other trace gases in the stratosphere using a high resolution far-infrared spectrometer at 28 km [NASA-CR-173679] 22 p3622 N84-32951
Photodissociation of H2O at 15 nm: State distribution and spatial orientation of the OH (x2pi) decay products [MPIS-5/1984] 23 p3715 N84-33552

HYGIENE
Results and interpretation of labor-hygienic studies in the paintshop of the jet engine depot of the Woensdrecht airbase
[PML-1982-54] 02 p0289 N84-11759
OSHA medical and workplace surveillance requirements and NIOSH recommendations (for employees exposed to toxic substances and other work hazards)
[NASA-CR-3690] 07 p0966 N84-16258
Military Medical Journal, no. 11, November 1983
[L-2539] 11 p1694 N84-21050
An industrial hygiene evaluation of F-16 aircraft refueling inside closed aircraft shelters
[AD-A138501] 12 p1866 N84-22157
Review of occupational medicine relevant to aviation medicine 22 p3631 N84-33012

HYGRAL PROPERTIES
ICAN: Integrated composites analyzer
[NASA-TM-83700] 17 p2618 N84-26755

HYGROMETERS
NT PSYCHROMETERS
Humidity measurement comparison tests: Dew point hygrometer versus wet bulb psychrometer
[PB83-237487] 04 p0539 N84-13546
Digital electronic hygrometer 24 p3961 N84-35084

HYGROSCOPICITY
Humidity control: The pattern for change 11 p1639 N84-20718

HYPERBARIC CHAMBERS
Evaluation of a carbon dioxide scrubber in a 2-lock recompression chamber
[AD-A141052] 19 p2969 N84-28816
Hyperbaric chamber equipment: A consolidated equipment list from selected multiplace hyperbaric facilities
[AD-A141702] 19 p2970 N84-28820

HYPERBOLAS
Initial-boundary value problems for linear hyperbolic systems
[AD-A132644] 05 p0735 N84-14829
The efficient use of spectral and finite difference methods for the solution of certain hyperbolic and parabolic problems
[AD-A139477] 14 p2214 N84-24299

HYPERBOLIC DIFFERENTIAL EQUATIONS
Spectral methods for time dependent partial differential equations
[NASA-CR-172241] 01 p0128 N84-10837
Adaptive mesh refinement for hyperbolic partial differential equations
[AD-A130162] 01 p0131 N84-10859
Research in numerical linear algebra and numerical methods for large-scale least squares and other problems
[AD-A131400] 02 p0280 N84-11838
Multidimensional explicit difference schemes for hyperbolic conservation laws
[NASA-CR-172254] 03 p0425 N84-12778
Stability analysis for difference schemes, problems in applied linear algebra, and application of number theory to computing
[AD-A133654] 05 p0735 N84-14825
Initial-boundary value problems for linear hyperbolic systems
[AD-A132644] 05 p0735 N84-14829
Explicit second order splitting schemes for solving hyperbolic nonlinear problems: Theory and application to transonic flow
[ESA-TT-768] 06 p0902 N84-15855
On the convergence of Galerkin approximation schemes for second-order hyperbolic equations in energy and negative norms
[CSIR-TWISK-280] 07 p1059 N84-16867
Domain splitting for an explicit hyperbolic solver
[C/R/469/83] 07 p1060 N84-16871
Linear or nonlinear wave problems with input sets
[AD-A137811] 11 p1714 N84-21177
On the extremum of bilinear functional for hyperbolic type P.D.E.
[AD-P002942] 14 p2197 N84-24182
Contribution to the study of a numerical implicit method for solving the Euler equations
[ONERA-NT-1983-8] 16 p2488 N84-25958
Similarity transformations of the Euler equations and their numerical evaluation 16 p2540 N84-26306
Asymptotic solutions of dispersive quasi-linear equations
[ISSN-0206-5658] 19 p3061 N84-29552
Estimation of coefficients and boundary parameters in hyperbolic systems
[NASA-CR-172389] 19 p3062 N84-29562
On the extremum of bilinear functional for hyperbolic type partial differential equations
[AD-A142505] 20 p3281 N84-30628

HYPERBOLIC FUNCTIONS
Spectral methods in time for hyperbolic equations
[NASA-CR-172302] 10 p1568 N84-20274
Stability of finite difference models containing two boundaries or interfaces
[NASA-CR-172319] 11 p1712 N84-21165
TVD finite difference schemes and artificial viscosity
[NASA-CR-172373] 19 p3082 N84-29559
Analysis, modeling and control of dynamical systems
[AD-A143937] 23 p3818 N84-34209

HYPERBOLIC NAVIGATION
NT DECCA NAVIGATION
NT LORAN
NT LORAN C
NT SHORAN

HYPERBOLIC SYSTEMS
The time evolution of spectral discretizations of hyperbolic systems
[NASA-CR-172432] 22 p3645 N84-33113
Stability analysis of finite difference schemes for hyperbolic systems, and problems in applied and computational linear algebra
[AD-A143537] 22 p3646 N84-33119

HYPERCAPNIA
Naloxone does not affect ventilatory responses to hypoxia and hypercapnia in rats
[AD-A131836] 03 p0414 N84-12708
Adrenal-hypothalamus-pituitary system reactions in rats cooled in a hypoxic-hypercapnic gas atmosphere 20 p3254 N84-30655
Exchange of gases and physical work capacity in natives of different geographic regions 20 p3254 N84-30656

HYPERFINE STRUCTURE
Theory of hyperfine anomalies in muonic atoms
[DE83-015392] 03 p0438 N84-12872
High-sensitivity laser spectroscopy with atoms from a cooled helium jet
[DE84-000614] 04 p0540 N84-13554
General cases of the pseudoquadrupole interaction in (169)T-m
[DE83-015685] 07 p1082 N84-17040
Crystal fields and second order magnetic hyperfine interactions in TmFe2Si2
[DE84-003622] 08 p1236 N84-18078
Sensitive collinear laser spectroscopy on fast atom and ion beams
[DE84-003403] 10 p1456 N84-19512
Line width and line shape analysis in the inductively coupled plasma by high resolution Fourier transform spectrometry
[DE84-004358] 10 p1457 N84-19513
Fast ion atomic spectroscopy
[DE84-006720] 15 p2404 N84-25432
Magnetically enhanced hydrogen gas dissociator: A progress report 16 p2479 N84-25892
Radio astronomy 22 p3683 N84-33349

HYPERGOLIC ROCKET PROPELLANTS
Measurements of hypergolic fuels' and oxidants' permeation through commercial protective materials: Part 1. Inhibited red fuming nitric acid and unsymmetrical dimethylhydrazine
[AD-A134714] 08 p1139 N84-17411

HYPERNUCLEI
Hypernuclear research at the AGS
[DE84-010282] 20 p3294 N84-30915
Gamma-ray spectroscopy of hypernuclei
[DE84-013142] 22 p3654 N84-33162

HYPEROXIA
Stability of rat brain glutamine synthetase to oxygen toxicity (oxygen at high pressure)
[AD-A131049] 01 p0112 N84-10725
A mathematical model for oxygen toxicity in man
[AD-A137379] 10 p1547 N84-20139

HYPERPLANES
Synthesis of multivalued logic circuits using hyperplanes
[AD-P002335] 14 p2190 N84-24126

HYPERSOMNIA
Symposium on mathematical modeling of circadian systems
[AD-A133636] 05 p0713 N84-14673

HYPERSONIC AIRCRAFT
Aerodynamic characteristics, including effect of body shape, of a Mach 6 aircraft concept
[NASA-TP-2235] 04 p0481 N84-13164
Development of a thermal and structural model for a NASTRAN finite-element analysis of a hypersonic wing test structure
[NASA-CR-170413] 06 p1170 N84-17620
Development of a thermal and structural model for a NASTRAN finite-element analysis of a hypersonic wing test structure 17 p2599 N84-26656

HYPERSONIC BOUNDARY LAYER
Laser velocimeter developments for surveying thin boundary layers in a Mach 6 high Reynolds number flow
[AD-A130387] 01 p0083 N84-10541
Studies of boundary layer transition and surface roughness effects in hypersonic flow
[AD-A140603] 17 p2601 N84-26670
Morse theory for flows in presence of a symmetry group
[AD-A144661] 24 p3952 N84-35026

HYPERSONIC FLOW
MINIVER upgrade for the AVID system. Volume 1: LANMIN user's manual
[NASA-CR-172212] 01 p0120 N84-10779
MINIVER upgrade for the AVID system. Volume 2: LANMIN input guide
[NASA-CR-172213] 01 p0120 N84-10780
MINIVER upgrade for the AVID system. Volume 3: EXITS user's and input guide
[NASA-CR-172214] 02 p0271 N84-11773
On the generation of vortical flow at hypersonic speeds over elliptical cones 03 p0323 N84-12114
Dynamics of rarefied gas and molecular gas dynamics
[AD-A132689] 05 p0749 N84-14921
Assessment of real gas effects on the prediction of the aerodynamics of high velocity Army shells
[AD-A134739] 08 p1099 N84-17150
Theory of hypersonic three-dimensional flow of nonsteady gas stream with relaxation past thin wing with arbitrary aspect ratio 13 p1971 N84-22791
Interaction of unsteady spatial boundary layer with hypersonic flow near rapidly heated portion of surface 13 p1971 N84-22794
Hypersonic flow around flat body in case of intense radiative heat exchange 13 p1972 N84-22795
Hypersonic Aerothermodynamics
[VKI-LS-1984-01] 16 p2440 N84-25656
Fundamentals of hypersonics: Aerodynamics and heat transfer 16 p2441 N84-25660
Hypersonic static and dynamic stability. Part 2: Inviscid prediction methods for unsteady hypersonic flow 16 p2442 N84-25664
Hypersonic static and dynamic stability. Part 3: Experimental techniques, experimental results and viscous effects 16 p2442 N84-25665
Studies of boundary layer transition and surface roughness effects in hypersonic flow
[AD-A140603] 17 p2601 N84-26670
Analytical description of hypersonic gas jet discharged into motionless medium or into supersonic companion stream 17 p2644 N84-26914
Method of calculating strong viscous interaction at delta wing 17 p2644 N84-26918
A mixed explicit-implicit antidiffusive method of Navier-Stokes equations for supersonic and hypersonic separated flows
[AD-A141010] 18 p2837 N84-28005
Aerothermal loads analysis for high speed flow over a quilted surface configuration
[NASA-TM-86260] 21 p3399 N84-31560
Hypersonic three-dimensional flow of radiating gas around wing 21 p3481 N84-32062
Hypersonic flow of viscous gas on surface of blunt cone with strong blow-in in blunted region 21 p3481 N84-32063
Parabolized Navier-Stokes solutions for hypersonicflow fields 23 p3688 N84-33373

HYPERSONIC REENTRY
Response of Inconel 617 superalloy to combined ground-based and STS reentry exposure
[NASA-TM-86293] 22 p3554 N84-32505

HYPERSONIC SPEED
Instrumentation techniques for aerodynamic heating measurement in NAL hypersonic gun tunnel
[NAL-TR-780] 09 p1258 N84-18213
Optimal maneuvers of orbital transfer vehicles 13 p1939 N84-22606

HYPERSONIC VEHICLES
NT HYPERSONIC AIRCRAFT
Preliminary scramjet design for hypersonic airbreathing missile application
[NASA-CR-3742] 04 p0486 N84-13195
Enhancement of the CAVE computer code — aerodynamic heating package for nose cones and scramjet engine sidewalls
[NASA-CR-3731] 04 p0532 N84-13501
Hypersonic test facilities 16 p2441 N84-25661
The measurement of heat transfer and temperature distributions in hypersonic testing 16 p2441 N84-25662
Computational techniques for hypersonic flows 16 p2442 N84-25666

General introduction. Part 1: The waverider. Origins, evolution and applications. Part 2: Waverider aero-and aerothermodynamics. Part 3: Configuration design. Reentry gliders. Part 4: Configuration design. Cruise/ramjet vehicles 16 p2442 N84-25667
Studies of boundary layer transition and surface roughness effects in hypersonic flow
[AD-A140803] 17 p2601 N84-26670
Aerothermal performance and damage tolerance of a Rene 41 metallic standoff thermal protection system at Mach 6.7
[NASA-TM-85773] 17 p2615 N84-26739

HYPERSONIC WIND TUNNELS
NT SHOCK TUNNELS
High altitude aerodynamic tests with simulated heat-shield outgassing
[AD-A132078] 04 p0492 N84-13227
Boundary layer trip performance test on a 7-deg cone model at mach number 8
[AD-A139408] 14 p2146 N84-23860

HYPERSONICS
A review of preflight estimates of real-gas effects on space shuttle aerodynamic characteristics 01 p0020 N84-10129
Explanation of the hypersonic longitudinal stability problem: Lessons learned 01 p0021 N84-10130
AFFTC overview of orbiter-reentry flight-test results 01 p0027 N84-10169
Development of a thermal and structural model for a NASTRAN finite-element analysis of a hypersonic wing test structure 17 p2599 N84-26656

HYPERTENSIN
NT POLYPEPTIDES

HYPERTENSION
Physiological responses of normotensives and essential hypertensives to exercise in the heat 04 p0572 N84-13768
Physiological responsiveness of operators in relation to work and homeostatic disorders 18 p2894 N84-28365
Walking erect as a factor in development of arterial hypertension in primates 20 p3253 N84-30645

HYPERTHERMIA
Exercise in the heat. Effects of saline or bicarbonate infusion
[AD-A137194] 11 p1696 N84-21061
Individual responses to combined heat and physical load 18 p2896 N84-28374
Circulatory changes in orthostatic position in the presence of hyperthermia 20 p3253 N84-30647
Effect of body temperature on human work capacity 21 p3455 N84-31926
Dynamics of functional status and subjective sensations in process of heat adaptation 21 p3456 N84-31931

HYPERTONIA
U OSMOSIS

HYPERTROPHY
U GROWTH

HYPERVELOCITY ACCELERATORS
U HYPERVELOCITY GUNS

HYPERVELOCITY CRATERING
U PROJECTILE CRATERING

HYPERVELOCITY FLOW
Hypervelocity supersonic nozzle beam source of atomic oxygen 24 p3863 N84-34480

HYPERVELOCITY GUNS
Instrumentation techniques for aerodynamic heating measurement in NAL hypersonic gun tunnel
[NAL-TR-780] 09 p1258 N84-18213
Repetitive switching for an electromagnetic rail gun
[AD-A138360] 12 p1812 N84-21814
Superconductivity for electromagnetic guns
[AD-A140685] 17 p2764 N84-27556

HYPERVELOCITY IMPACT
Impact cratering and spall failure at gabbro
[NASA-CR-174618] 04 p0562 N84-13704
Mechanics of projectile impact against thin plates
[AD-A138494] 12 p1823 N84-21882
Progressive impact cratering 13 p2078 N84-23469
Ablation accelerator (ABLAC) as driver for impact fusion
[IPPJ-668] 15 p2410 N84-25483
A review of micrometeoroid flux measurements and models for low orbital altitudes of the Space Station
[NASA-TM-86468] 23 p3700 N84-33455

HYPERVELOCITY LAUNCHERS
Shot to the moon from a cannon
[AD-A132554] 04 p0490 N84-13216

HYPERVELOCITY WIND TUNNELS
NT SHOCK TUNNELS

HYPERVENTILATION
Oxygen affinity of hemoglobin, 3 hours after passive increase in altitude from 400 to 1800 metres
[RAE-TRANS-2118] 22 p3630 N84-33004

HYPODYNAMIA
Extensions of suspension systems to measure effects of hypokinesia/hypodynamia and antiorthostasis in rats 09 p1355 N84-18855
New book on metabolism under hypodynamic conditions 15 p2378 N84-25271
The combined influence of stretch, mobility and electrical stimulation in the prevention of muscle fiber atrophy caused hypokinesia and hypodynamia
[NASA-CR-173994] 24 p3936 N84-34914

HYPOKINESIA
Changes in blood urea content under hypokinetic conditions 02 p0260 N84-11703
Energy metalbolism enzymes in simulation of some spaceflight factors 02 p0260 N84-11704
Morphometric study of rat adrenal medulla during long-term hypokinesia 02 p0260 N84-11705
Effect of eleuterococcus extract on recovery processes in rats following seven-day hypokinesia 02 p0260 N84-11706
Effect of hypokinesia on amino acid metabolism in rats on diets differing in calcium and phosphorus content 02 p0261 N84-11707
Effect of sydnocarb on hemodynamics and redistribution of blood during functional tests following six-hour antiorthostatic hypokinesia 07 p1045 N84-16777
Respiratory tract closing volume and structure of total lung capacity during seven-day hypokinesia in head-down position 07 p1045 N84-16778
Metabolic alterations caused by suspension hypokinesia in leg muscles of rats 09 p1354 N84-18848
Physiological changes in fast and slow muscle with simulated weightlessness 09 p1354 N84-18850
Appropriateness of the small-cage-reared rat as a model for the study of altered-activity effects 09 p1354 N84-18851
Extensions of suspension systems to measure effects of hypokinesia/hypodynamia and antiorthostasis in rats 09 p1355 N84-18855
Regulation of hematopoiesis in the suspended rat as a model for space flight 09 p1355 N84-18856
Muscle tone changes in individuals of different age groups submitted to simulated weightlessness 12 p1864 N84-22150
Morphological study of primate muscle fibers and microcirculation during head-down hypokinesia 15 p2377 N84-25262
Structural distinctions of thyroid C cells and parathyroid glands of primates during head-down hypokinesia 15 p2377 N84-25263
Nucleic acid content of canine liver during long-term experimental hypokinesia 15 p2377 N84-25267
New book on metabolism under hypodynamic conditions 15 p2378 N84-25271
Research opportunities in muscle atrophy
[NASA-CR-3796] 17 p2743 N84-27416
USSR report: Space Biology and Aerospace Medicine, vol. 18, no. 3, May - June 1984
[JPRS-USB-84-005] 20 p3252 N84-30642
Effect of dihydroergotamine on human circulation during orthostatic tests 20 p3253 N84-30646
Blood plasma free amino acids under hypokinetic conditions 20 p3253 N84-30648
Human stomach motor and evacuatory functions during antiorthostatic hypokinesia 20 p3253 N84-30649
Circadian pattern of simian functional parameters during hypokinesia and in the recovery period 20 p3253 N84-30650
Dynamics of red blood cell changes in rats during acute immobilization 20 p3254 N84-30651
Ultrasound distribution and bone calcium content in experimental animals submitted to hypokinesia and weightlessness 20 p3254 N84-30652
Hypokinesia experiment studies effects of weightlessness 21 p3347 N84-31234
First mixed crew in space 21 p3454 N84-31917
The combined influence of stretch, mobility and electrical stimulation in the prevention of muscle fiber atrophy caused hypokinesia and hypodynamia
[NASA-CR-173994] 24 p3936 N84-34914

HYPOTHALAMUS
Neuronal adaptive mechanisms underlying intelligent information processing
[AD-A133694] 06 p0689 N84-15776
Adrenal-hypothalamus-pituitary system reactions in rats cooled in a hypoxic-hypercapnic gas atmosphere 20 p3254 N84-30655
The effect of lesions in the preoptic-anterior hypothalamus on the reflexive responses of rats to cold stress
[AD-A144020] 23 p3805 N84-34126

HYPOTHERMIA
Microwaves, hyperthermia, and human leukocyte function
[PB83-225375] 01 p0115 N84-10746
A non-dimensional analysis of cardiovascular response to cold stress. Part 1: Identification of the physical parameters that govern the thermoregulatory function of the cardiovascular system
[AD-A138710] 15 p2380 N84-25285
A non-dimensional analysis of cardiovascular response to cold stress. Part 1: Identification of the physical parameters that govern the thermoregulatory function of the cardiovascular system
[AD-A138710] 17 p2745 N84-27429
Recommendations for the conduct of physical training in cold weather
[AD-A142137] 19 p3066 N84-29449
Adrenal-hypothalamus-pituitary system reactions in rats cooled in a hypoxic-hypercapnic gas atmosphere 20 p3254 N84-30655
Effects of whole-body cold exposure on erythrocyte morphology 21 p3452 N84-31908
Fluid replacement during hypothermia
[AD-A143807] 23 p3810 N84-34159

HYPOTHESES
NT EXPECTANCY HYPOTHESIS
NT LAGRANGE SIMILARITY HYPOTHESIS
A parametric bootstrap procedure for testing separate families of hypotheses
[AD-A134533] 07 p1062 N84-16887
Hypothesis identification in the case of the missing cell
[AD-A134553] 07 p1063 N84-16895
Testing hypotheses in linear models with weighted rank statistics
[AD-A135759] 09 p1383 N84-19032
Self and cross tests of astronomical hypothesis and optimal cutoff bias-free nonparametric estimation 09 p1412 N84-19234
On the complexity of distributed decision problems
[AD-A137443] 10 p1570 N84-20283
Research and theory on predecision processes
[AD-A137962] 12 p1866 N84-22163
On the Lehmann power analysis for the Wilcoxon Rank Sum Test
[AD-P003844] 24 p3939 N84-34932

HYPOTONIA
Morphological study of primate muscle fibers and microcirculation during head-down hypokinesia 15 p2377 N84-25262

HYPOXIA
Naloxone does not affect ventilatory responses to hypoxia and hypercapnia in rats
[AD-A131836] 03 p0414 N84-12708
Variable inhibition by falling CO2 of hypoxic ventilatory response in man
[AD-A130658] 06 p0687 N84-15768
Comparative characteristics of erythron reactions to hypoxic hypoxia, immobilization and high-intensity stationary magnetic field 07 p1046 N84-16785
Ventilation and ventilatory control in high altitude pulmonary edema and acute mountain sickness
[AD-A135941] 10 p1548 N84-20145
Work at high altitude: A clinical and physiological study at the United Kingdom Infrared Telescope, Mauna Kea, Hawaii
[REPT-11] 12 p1864 N84-22147
Efficacy of conditioning animals to hypoxia during sleep 15 p2377 N84-25261
Mental performance in mild oxygen deficiency
[IAM-409] 17 p2746 N84-27433
Adrenal-hypothalamus-pituitary system reactions in rats cooled in a hypoxic-hypercapnic gas atmosphere 20 p3254 N84-30655
Individual distinctions of human sleeping respiration at altitude of 4200 meters 20 p3256 N84-30663
Sensitivity to hypoxia in humans 21 p3456 N84-31934

HYPSOGRAPHY
Hypsometric studies of Mars. 13 p2089 N84-23530

HYSTERESIS
Low-hysteresis materials for magnetic refrigeration: Gd sub 1-x/Er sub x/Al2
[DE84-001685] 04 p0505 N84-13307
Temperature dependent hysteresis study in polyvinylidene fluoride
[AD-A132675] 05 p0659 N84-14331
Hysteresis in a low-pressure argon discharge, revision
[AD-A134387] 07 p1076 N84-16995
Grain size in sintered samarium-cobalt alloys and their coercive force
[BLL-M-35406(5826.4)] 09 p1281 N84-18365
Free-piston Stirling engine experimental program: Part 2. An evaluation of loss mechanisms
[DE84-003658] 09 p1325 N84-18661
Hysteresis in copolymers of vinylidene fluoride and trifluoroethylene
[AD-A137448] 10 p1466 N84-19577

An experimental hybrid model for a bilinear hysteretic system 10 p1514 N84-19910
Optical hysteresis and bistability in the wave-front conjugation by electrooptic crystals 14 p2234 N84-24406
Optical bistability based on self-focusing 14 p2237 N84-24424
Absorptive optical bistability with laser amplitude fluctuations 14 p2236 N84-24430
Selfpulsing, hysteresis and chaos in a standing wave laser 14 p2239 N84-24439
The NMR laser: A nonlinear solid state system showing chaos 14 p2239 N84-24440
Observation of optical hysteresis in an all-optical passive ring cavity 14 p2240 N84-24447
Optical bistability and hysteresis under phase conjugation in CdS crystal 14 p2240 N84-24450
Investigation of the behavior of axial compressor stages with steady state inlet distortions [DFVLR-FB-83-39] 15 p2262 N84-24590
The 6th International Conference on Computing Methods in Applied Sciences and Engineering [AD-A139824] 15 p2317 N84-24906
Piezoelectric properties and ferroelectric hysteresis effects in unaxially stretched Nylon-11 films [AD-A140663] 17 p2768 N84-27575
Effects of bond deterioration on hysteretic behavior of reinforced concrete joints [PB84-192020] 20 p3203 N84-30343
Results of the first complete static calibration of the RSRA rotor-load-measurement system [NASA-TP-2327] 21 p3328 N84-31111
Fiber optic magnetometer for the detection of dc magnetic fields without hysteretic ambiguity [AD-D011085] 22 p3599 N84-32794
Low frequency ac waveform generator [DE84-014310] 23 p3743 N84-33726

I

I BEAMS
Tests on steel I-beam columns subjected to thrust and biaxial bending [CRIF-MT-157] 07 p1017 N84-16598
Long-term load performance of hardboard I-beams [AD-A136091] 09 p1334 N84-18706
Impact dynamics research on composite transport structures 20 p3146 N84-29975
IAPETUS
Voyager feature-fixed photometry of Iapetus 13 p2074 N84-23440
Geologic studies of outer solar system satellites: Iapetus and Europa 13 p2075 N84-23448
IBM COMPUTERS
Communicating between the IBM personal computer and the Wang word-processing system [DE83-017987] 04 p0578 N84-13809
Participation of VAX VMS computers in IBM file-transfer networks [DE83-017945] 04 p0581 N84-13838
Electromagnetic inspection of wire ropes using sensor arrays [AD-A141164] 18 p2851 N84-28100
IBM's token-ring LAN (Local-Area Network): A base-level communications solution [AD-A143446] 22 p3638 N84-33063
Asynchronous file transfer to IBM PC's 22 p3672 N84-33275
ICBM (MISSILES)
U INTERCONTINENTAL BALLISTIC MISSILES
ICE
NT GLACIERS
NT ICE FLOES
NT ICEBERGS
NT LAKE ICE
NT LAND ICE
NT SEA ICE
Shuttle launch debris: Sources, consequences, solutions 01 p0019 N84-10124
A simple model for the depolarizing effects of rain and ice on Earth-satellite links in the 10 to 30 GHz frequency range [NASA-CR-174482] 02 p0211 N84-11382
The melting spherical ice particles falling at terminal velocity in air: An experimental and theoretical study 02 p0252 N84-11647
Snow characterization instruments [AD-A131984] 03 p0411 N84-12687
Elastic moduli of H2O: Liquid, ice 6 and ice 7 [DE83-017960] 05 p0652 N84-14284
Active and passive remote sensing of ice [AD-A133672] 05 p0697 N84-14577
Numerical analysis of a Stefan problem [AD-A132823] 05 p0737 N84-14838
Aerostat icing problems [AD-A133403] 06 p0810 N84-15272
Stress measurements in ice [AD-A133906] 06 p0861 N84-15609
Potential flow analysis of glaze ice accretions on an airfoil [NASA-CR-168282] 07 p0947 N84-16146
A study on the tensile strength of ice as a function of grain size [AD-A134889] 08 p1172 N84-17831
High pressure cosmochemistry applied to major planetary interiors: Experimental studies — phase diagram for the ammonia water system [NASA-CR-173278] 08 p1245 N84-18138
Driving traction on ice with all-season and mud-and-snow radial tires [AD-A136115] 09 p1325 N84-18658
Ice impact testing of space shuttle thermal protection system materials 10 p1509 N84-19680
Observation of the interstellar ice grain feature in the Taurus molecular clouds [DE84-004316] 10 p1595 N84-20453
Investigations into the use of ice for cooling deep mines 11 p1641 N84-20728
Melting layer survey [AD-A137911] 11 p1687 N84-21003
Ice-covered volcanic water flows on Ganymede 13 p2073 N84-23432
Photometry of icy satellites: How important is multiple scattering in diluting shadows? 13 p2073 N84-23436
Comparison of Hapke's photometric theory with Voyager observations of Europa, Enceladus, Rhea and Mimas 13 p2074 N84-23439
Voyager feature-fixed photometry of Iapetus 13 p2074 N84-23440
Cometary nucleus and active regions 13 p2075 N84-23450
Morphology of fresh craters on Ganymede and the origin of pedestal craters 13 p2078 N84-23466
Permafrost on Mars: distribution, formation, and geological role 13 p2085 N84-23506
Ice depolarization on low-angle 2 GHz satellite downlinks 15 p2323 N84-24946
The effect of ice temperature on regelation velocities 15 p2353 N84-25113
Plastic deformation of ice single crystals containing inclusions 15 p2353 N84-25114
Studies on light scattering and absorption properties of ice clouds for visible and infrared laser wavelengths [AD-A140528] 16 p2557 N84-26405
Heterogeneous condensation of ice mantle around silicate core grain in molecular cloud 16 p2570 N84-26491
Observations of the interstellar ice grain feature in the Taurus molecular clouds 16 p2570 N84-26493
The 3 micron ice band 16 p2570 N84-26494
Experiments on chemical and physical evolution of interstellar grain mantles 16 p2570 N84-26495
Anomalies in, and crystallization of supercooled water and aqueous solutions [AD-A140582] 17 p2767 N84-27573
Evaluation of UH-1H hover performance degradation caused by rotor icing [AD-A141252] 18 p2793 N84-27727
methodological problems in evaluating and predicting water-ice resources in mountainous areas 18 p2856 N84-28135
Heterogeneous condensation of ice mantle around silicate core grain in molecular cloud 18 p2948 N84-28689
Observations of the interstellar ice grain feature in the Taurus molecular clouds 18 p2948 N84-28691
Ice in comet dust 18 p2949 N84-28702
Active and passive remote sensing of ice [AD-A141473] 19 p3041 N84-29293
Shock vaporization and the accretion of the icy satellites of Jupiter and Saturn [NASA-CR-173767] 19 p3122 N84-29843
Comparison of icing cloud instruments for 1982-1983 icing season flight program [NASA-TM-83569] 20 p3129 N84-29870
A description of the MIZEX 1984 remote sensing activities [AD-A142296] 20 p3228 N84-30514
Data Report. Low Temperature Science. Series A: Physical Sciences [ISSN-0365-3683] 23 p3762 N84-33842
Distribution of pack ice of Okhotsk Sea coast of Hokkaido observed with sea ice radar network, January-April 1983 23 p3762 N84-33846
Synoptic meteorology in Antarctica [INPE-3201-NTE/222] 23 p3800 N84-34095
GASP cloud- and particle-encounter statistics and their application to LPC aircraft studies. Volume 1: Analysis and conclusions [NASA-TM-85835] 24 p3923 N84-34828
ICE ENVIRONMENTS
Open water and thin ice detection in the Arctic marginal ice zone using reflectometer signal analysis [AD-A136043] 10 p1543 N84-20110
A numerical model of interactions between a polar ice stream, the ocean and the solid earth: Application to ice stream E, West Antarctica 11 p1689 N84-21013
Characteristics of snow cover on sea ice and formation of snow ice 15 p2354 N84-25126
Polar glaciology 20 p3218 N84-30445
Polar research board report, 1983 and future plans [PB84-194315] 21 p3433 N84-31779
ICE FLOES
Snow thickness and brightness temperature on multi-year ice [AD-A133940] 06 p0884 N84-15747
Method to estimate drag coefficient at the air/ice interface over drifting open pack ice from remotely sensed data 17 p2720 N84-27310
ICE FORMATION
NT CLOUD GLACIATION
A steady-state thermal model for analysis of incipient icing on an air foil leading edge [AD-A131207] 02 p0175 N84-11150
Numerical experiments on the formation and maintenance of cirriform clouds 02 p0252 N84-11649
Growth of epitaxial ice crystals on covellite (CuS) under reduced air pressure 02 p0306 N84-12008
Construction of two wind turbines AEROMAN 11/11 for Indonesia [BMFT-FB-T-83-143] 03 p0384 N84-12505
Field and laboratory studies of ice nucleation in winter orographic clouds 03 p0409 N84-12678
Proceedings of 1st International Workshop on Atmospheric Icing of Structures [AD-A131869] 03 p0411 N84-12690
Performance degradation of a typical twin engine commuter type aircraft in measured natural icing conditions [NASA-TM-83564] 04 p0483 N84-13173
Heat transfer distributions around nominal ice accretion shapes formed on a cylinder in the NASA Lewis icing research tunnel [NASA-TM-83557] 05 p0679 N84-14463
Rotorcraft icing technology: An update 06 p0776 N84-15084
Ice formation in aircraft 06 p0783 N84-15130
Aerostat icing problems [AD-A133403] 06 p0810 N84-15272
The heterogeneous nucleation of ice I 06 p0817 N84-15325
Geophysical data from drifting ice stations FRAM 4 and TRISTEN [AD-A133370] 06 p0866 N84-15640
Results of an experimental program investigating the effects of simulated ice on the performance of the NACA 63A415 airfoil with flap [NASA-CR-168288] 07 p0947 N84-16145
Experimental study of fluid deicing system in the NASA Icing Research Tunnel [NASA-TM-77097] 07 p0960 N84-16220
Radar image interpretation techniques applied to sea ice geophysical problems 07 p0990 N84-16413
European Space Agency, ERS-1 program 07 p0990 N84-16419
A new data base of supercooled cloud variables for altitudes up to 10,000 ft. AGL and the implications for low altitude aircraft icing [DOT/FAA/CT-83/21] 07 p1036 N84-16718
Documentation of ice shapes on the main rotor of a UH-1H helicopter in hover [NASA-CR-168332] 08 p1098 N84-17139
Some parameters characterising the icing of ships from spray [BLL-MO-TRANS-1570-(9022.552)] 08 p1190 N84-17753
Status for knowledge: Meteorological affected icing on aircraft in clouds [DFVLR-MITT-83-12] 08 p1191 N84-17763
Mechanical ice release processes. Part 1: Self-shedding from high-speed rotors [AD-A135369] 09 p1256 N84-18198
Preliminary study for the modeling of an artificial icing cloud [AD-A135717] 09 p1349 N84-18813
Review and assessment of USAF and US Army (HISS) artificial icing cloud studies [AD-A135720] 09 p1349 N84-18814
Current procedures for forecasting aviation icing: A review [AD-A136152] 09 p1350 N84-18818

Analysis of AFGL aircraft icing data
[AD-A137197] 10 p1539 N84-20087
Open water and thin ice detection in the Arctic marginal ice zone using reflectometer signal analysis
[AD-A136043] 10 p1543 N84-20110
Progress toward the development of an aircraft icing analysis capability
[NASA-TM-83562] 11 p1601 N84-20490
Study of aerospace materials, coatings, adhesions and processes. Aircraft icing processes
[AD-A139743] 15 p2257 N84-24557
First stage of equipment for aircraft Do 28 of DFVLR as a research aircraft for icing and first research results
[DFVLR-FB-83-40] 15 p2259 N84-24571
Low Temperature Science. Series A: Physical Science
[ISSN-0439-3538] 15 p2352 N84-25112
Characteristics of snow cover on sea ice and formation of snow ice 15 p2354 N84-25126
Measurement of local connective heat transfer coefficients of four ice accretion shapes
[NASA-CR-174680] 16 p2439 N84-25646
Safety recommendation(s) A-84-10 and -11
16 p2444 N84-25676
Aerospatiale's experience on helicopter flight in icing conditions
[SNIAS-832-210-107] 16 p2448 N84-25707
Evaluation of UH-1H hover performance degradation caused by rotor icing
[AD-A141252] 18 p2793 N84-27727
Temperature response of cryosphere area in northern hemisphere 18 p2856 N84-28138
Observations of the interstellar ice grain feature in the Taurus molecular clouds 18 p2948 N84-28691
The 3 micron ice band — interstellar absorption
18 p2948 N84-28692
Atmospheric icing on sea structures
[AD-A144448] 24 p3934 N84-34903

ICE MAPPING
Antartic sea ice, 1973 - 1976: Satellite passive-microwave observations
[NASA-SP-459] 01 p0110 N84-10718
Glaciological applications of LANDSAT images in connection with hydropower investigations in West Greenland 03 p0396 N84-12598
Field and laboratory studies of ice nucleation in winter orographic clouds 03 p0409 N84-12678
HF over-the-horizon mapping of the Greenland icecap
06 p0868 N84-15654
Satellite image atlas of glaciers: The Polar regions
14 p2161 N84-23940
Remote sensing of floe size distribution and surface topography
[E84-10132] 15 p2357 N84-25141
The crustal tectonics and history of Europa: A structural, morphological, and comparative analysis
15 p2426 N84-25568
Meteorological research and support for the MIZEX (Marginal Ice Zone Experiment) program
[AD-A142409] 20 p3245 N84-30598
Bering Air-Sea-Ice Study (BASICS), February and March, 1981
[PB84-196161] 22 p3615 N84-32903
A SAR for real-time ice reconaissance
23 p3765 N84-33869
Mapping the Fram Strait ice edge using AVHRR imagery and NOAA satellite orbital data
23 p3773 N84-33915
Observation of variations in the composition of sea ice in the Greenland MIZ during early summer 1983 with the Nimbus-7 SMMR — Marginal Ice Zone (MIZ); Scanning Multichannel Microwave radiometer (SMMR)
23 p3773 N84-33916
Passive microwave characteristics of the Bering Sea ice cover during Marginal Ice Zone Experiment (MIZEX) West 23 p3773 N84-33917
The distribution of ice concentration, multiyear and first year fraction in the Arctic Ocean derived from the Nimbus 7 Scanning Multichannel Microwave Radiometer (SMMR) observations 23 p3773 N84-33920
Report of the Meeting of Experts on Sea Ice and Climate Modelling
[WCP-77] 23 p3801 N84-34101

ICE NUCLEI
Field and laboratory studies of ice nucleation in winter orographic clouds 03 p0409 N84-12678
Cloud physics investigations by the University of Wyoming in HIPLEX 1977-1982
[PB84-106756] 06 p1192 N84-17770

ICE OBSERVATION
U ICE REPORTING

ICE PACKS
U SEA ICE

ICE PREVENTION
Space Shuttle ice suppression system validation, volume 1
[NASA-CR-171740] 08 p1114 N84-17244
Space Shuttle ice suppression system validation, volume 2
[NASA-CR-171741] 08 p1114 N84-17245
Space Shuttle ice suppression system validation, volume 3
[NASA-CR-171742] 08 p1114 N84-17246
Progress toward the development of an aircraft icing analysis capability
[NASA-TM-83562] 11 p1601 N84-20490
First stage of equipment for aircraft Do 28 of DFVLR as a research aircraft for icing and first research results
[DFVLR-FB-83-40] 15 p2259 N84-24571
Measurement of local connective heat transfer coefficients of four ice accretion shapes
[NASA-CR-174680] 16 p2439 N84-25646
Aerospatiale's experience on helicopter flight in icing conditions
[SNIAS-832-210-107] 16 p2448 N84-25707
Atmospheric icing on sea structures
[AD-A144448] 24 p3934 N84-34903

ICE REPORTING
Remote sensing: New satellite systems and potential applications — conferences
[ESA-SP-205] 08 p1174 N84-17650
Snow and ice monitoring by microwave techniques
08 p1176 N84-17660
Remote sensing of sea ice — Nimbus 7 scanning multichannel microwave radiometer (SMMR)
08 p1176 N84-17664
A study of satellite radar altimeter operation over ice-covered surfaces
[ESA-CR(P)-1810] 08 p1179 N84-17683
Report of the International Ice Patrol Service in the North Atlantic Ocean, season of 1981
[AD-A134791] 08 p1195 N84-17793
Investigation of ice dynamics in the marginal ice zone — Arctic Ocean
[AD-A134599] 08 p1196 N84-17799
Cosmos-1500 SLR used for Arctic ice reconnaissance
09 p1265 N84-18258
A SAR for real-time ice reconaissance
23 p3765 N84-33869
Remote sensing of the marginal ice zone during Marginal Ice Zone Experiment (MIZEX) 83
23 p3772 N84-33910
SAR measurement of sea ice properties during Marginal Ice Zone Experiment (MIZEX) 83
23 p3772 N84-33911
Millimeter wave radiometric images of the marginal ice zone 23 p3772 N84-33912
Active microwave measurements of sea ice in the marginal ice under summer conditions
23 p3772 N84-33913
Eddy studies during Marginal Ice Zone Experiment (MIZEX) 83 by ship and remote sensing observations
23 p3772 N84-33914
Report of the Meeting of Experts on Sea Ice and Climate Modelling
[WCP-77] 23 p3801 N84-34101

ICE SHELVES
U LAND ICE

ICEBERGS
Elements of an iceberg deterioration model
[AD-A133223] 07 p1041 N84-16749
Report of the International Ice Patrol Service in the North Atlantic Ocean, season of 1981
[AD-A134791] 08 p1195 N84-17793
Observations of sea ice and icebergs from satellite radar altimeters 17 p2720 N84-27311
Arctic ice island and sea ice movements and mechanical properties
[DE84-014324] 23 p3803 N84-34116

ICELAND
A summary of modeling studies of the Krafla Geothermal Field, Iceland
[DE84-000939] 05 p0697 N84-14578
Analysis of production data from the Krafla geothermal field, Iceland
[DE84-006881] 13 p2006 N84-23014
Planetary geomorphology field studies: Iceland and Antarctica 13 p2086 N84-23514
Seismicity of Iceland and the adjoining region of the Atlantic Ocean 19 p3061 N84-29423

ICING
U ICE FORMATION

IDAHO
Water resources data for Idaho, water year 1982. Volume 1: Great Basin and Snake River Basin above King Hill
[PB84-118470] 09 p1338 N84-18740
Water resources data for Idaho, water year 1982. Volume 2: Upper Columbia River Basin and Snake River Basin below King Hill
[PB84-118488] 09 p1338 N84-18741
East Butte: A volcanic dome of the Eastern Snake River Plain, Idaho 13 p2079 N84-23475
Geothermal resources of southern Idaho
[USGS-CIRC-866] 14 p2168 N84-23988
Thermal ground water flow systems in the thrust zone in southeastern Idaho
[DE84-011598] 20 p3229 N84-30517
Water geochemistry of hydrothermal systems, Wood River District, Idaho
[DE84-012190] 21 p3431 N84-31769

IDEAL FLUIDS
Computational methods for ideal compressible flow
06 p0836 N84-15462
Numerical fluid dynamics
[AD-A135900] 09 p1315 N84-18593
Free oscillations of ideal stratified fluid in container
21 p3480 N84-32058

IDEAL GAS
Discharge of ideal gas into vacuum
13 p1970 N84-22785
GCKP84-general chemical kinetics code for gas-phase flow and batch processes including heat transfer effects
[NASA-TP-2320] 22 p3548 N84-32446

IDENTIFY FRIEND OR FOE
U IFF SYSTEMS (IDENTIFICATION)

IDENTIFYING
NT CROP IDENTIFICATION
NT IFF SYSTEMS (IDENTIFICATION)
NT PARAMETER IDENTIFICATION
NT SYSTEM IDENTIFICATION
NT TIMBER IDENTIFICATION
Informative quantile functions and identification of probability distribution types
[AD-A132723] 05 p0740 N84-14861
Rapid identification of micro-organisms
[AD-A132831] 06 p0886 N84-15759
Characterization of acid rain for source identification. Task 1: Sulfur isotope rationing
[DE84-006510] 12 p1845 N84-22030
A computer simulation to predict target identification latencies
[AD-P003272] 18 p2907 N84-28437
Integrated CNI (Communication Navigation and Identification) avionics and future standardization
[AD-P003580] 21 p3339 N84-31185
Rapid microbial identification by circular intensity differential scattering
[DE84-013694] 22 p3629 N84-32983

IFF SYSTEMS (IDENTIFICATION)
IFFN (Identification Friend, Foe, or Neutral) report. Phase 1: Design activities
[AD-A133702] 05 p0669 N84-14397
Integration of ICNIA into advanced high performance fighter aircraft 06 p0772 N84-15059
White paper: An overview of how the IFFN (Identification Friend, Foe, or Neutral) evaluation testbed system will be used
[AD-A141453] 19 p3004 N84-29042
Program master plan
[AD-A141554] 19 p3005 N84-29049
F-15 AN/APG-63 radar case study report IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A142071] 20 p3129 N84-29873

IFR (RULES)
U INSTRUMENT FLIGHT RULES

IGFET
U FIELD EFFECT TRANSISTORS

IGNEOUS ROCKS
NT ANORTHOSITE
NT BASALT
NT GRANITE
NT MOLDAVITE
NT PERIDOTITE
Lateral variations in geologic structure and tectonic setting from remote sensing data
[AD-A130758] 01 p0105 N84-10683
Shock wave properties of anorthosite and gabbro
[NASA-CR-173309] 08 p1155 N84-17521
Use of olivine and plagioclase saturation surfaces for the petrogenetic modeling of recrystallized basic plutonic systems 11 p1679 N84-20956
East Butte: A volcanic dome of the Eastern Snake River Plain, Idaho 13 p2079 N84-23475
Geothermal resources of southern Idaho
[USGS-CIRC-866] 14 p2168 N84-23988
Geology hydrology and mineral resources of crystalline rock areas of Northeastern US
[DE84-013671] 21 p3432 N84-31774

Volcanism, plutonism, and sedimentation in a late Devonian Submarine Island-arc setting, Northern Sierra Nevada, California 21 p3441 N84-31831
Geology, hydrology, and mineral resources of crystalline rock areas of the northeastern United States [DE84-013672] 22 p3614 N84-32901
Crystalline rocks of the Northeastern United States [DE84-013673] 22 p3624 N84-32902
Crystalline rocks of the Lake Superior region, United States, part 2 [DE84-014802] 23 p3799 N84-34087

IGNIMBRITE
U IGNEOUS ROCKS

IGNITERS
NT BOOSTERS (EXPLOSIVES)
NT DETONATORS
NT INITIATORS (EXPLOSIVES)
NT PRIMERS (EXPLOSIVES)
NT SQUIBS
Data analysis of the LLNL hydrogen igniter experiments [DE83-010260] 01 p0037 N84-10236
Combustion jet ignition 03 p0336 N84-12188
Expanded ignition effectiveness tests of selected igniter materials with Navy propellants [AD-A134704] 08 p1125 N84-17312
Liquid propellant ignition studies 13 p1949 N84-22670
Expanded ignition effectiveness tests of selected igniter materials with Navy propellants 13 p1949 N84-22671
Ignitibility studies of LOVA propellants — low vulnerability gun propellants 13 p1950 N84-22678
Evaluation of material of thermal response [DGT-23.190A] 16 p2474 N84-25856
Oxygen/hydrogen thrusters for the space station auxiliary propulsion systems 20 p3140 N84-29934
Integral low-energy thermite igniter [DE84-011082] 20 p3150 N84-29999

IGNITION
NT SOLID PROPELLANT IGNITION
NT SPARK IGNITION
Ignition delay times of propene oxygen argon mixtures [AD-A130464] 01 p0037 N84-10232
Fuel ignition by high voltage capacitive discharges [PB83-209155] 01 p0039 N84-10245
Combustion jet ignition 03 p0336 N84-12188
Recent US progress in fire growth modeling 04 p0511 N84-13354
The computer fire codes and required new data 04 p0513 N84-13369
Theoretical modeling of converging and diverging detonation waves in solid and gaseous explosives [DE83-017300] 04 p0536 N84-13528
High temperature (1645 deg C, 3000 deg F) surface ignition test apparatus for fluids [AD-A132658] 05 p0649 N84-14268
Chemical kinetics modeling of engine knock: Preliminary results [DE84-001236] 06 p0802 N84-15226
Unconfined gas explosions — conferences [VKI-LS-1983-02] 06 p0835 N84-15438
Identification of problem areas — unconfined gas explosions 06 p0836 N84-15440
Hydrogen ignition for laser propulsion 06 p0928 N84-16026
Ignition and unsteady flame propagation in turbulent reactive flows [AD-A136450] 09 p1279 N84-18349
Combustion characteristics in the transition region of liquid fuel sprays 11 p1609 N84-20534
The role of surface generated radicals in catalytic combustion 11 p1613 N84-20555
Spontaneous ignition characteristics of gaseous hydrocarbon-air mixtures 11 p1613 N84-20557
Numerical simulation of flame propagation in a closed vessel [DE84-004959] 11 p1629 N84-20663
Simulation of the ignition of a mixture of hydrogen and oxygen [PML-1983-34] 12 p1790 N84-21676
Microwave-enhanced ignition in diesel engines [AD-A138148] 12 p1791 N84-21682
Device and method for frictionally testing materials for ignitability [NASA-CASE-MSC-20622-1] 13 p1937 N84-22596
The 20th JANNAF Combustion Meeting, volume 1 [AD-A138033] 13 p1943 N84-22632
Liquid propellant ignition studies 13 p1949 N84-22670
Convective heating of energetic materials 13 p1949 N84-22672
Effect of O2 on double-base propellant ignition 13 p1949 N84-22673
Very low thrust gaseous oxygen-hydrogen rocket engine ignition technology 13 p1952 N84-22692
Options for an ignited tokamak [DE84-007927] 13 p2045 N84-23272
Predicted TF41 performance with the AGARD research fuel 15 p2293 N84-24763
Preliminary flight evaluation of F100 engine model derivative airstart capability in an F-15 airplane [NASA-TM-86031] 19 p2965 N84-26792
Very low thrust and low chamber pressure GO2/GH2 thruster technology 20 p3136 N84-29910
High pressure LOX/natural gas staged combustion technology 20 p3138 N84-29927
Modeling chemical kinetic aspects of engine knock [DE84-009674] 20 p3198 N84-30312
Ignition and flame propagation in sprays [AD-A143773] 23 p3713 N84-33538

IGNITION LIMITS
Effect of gravity on halogenated hydrocarbon flame retardant effectiveness [NASA-TM-83761] 23 p3713 N84-33536

IGNITION SYSTEMS
Experimental and theoretical study of combustion jet ignition [NASA-CR-168139] 01 p0009 N84-10054
Liquid propellant ignition studies 13 p1949 N84-22670
Wall quench and flammability limit effects on exhaust hydrocarbon emission [DE84-009754] 21 p3359 N84-31307

IGNITION TEMPERATURE
NT FLASH POINT

IGY (GEOPHYSICAL YEAR)
U INTERNATIONAL GEOPHYSICAL YEAR

IL-62 AIRCRAFT
Upgraded Yakutsk airport opens to IL-62 service 01 p0001 N84-10006

ILLINOIS
Statistics of instantaneous rainfall rates [AD-A130089] 01 p0107 N84-10695
Initial operation of the compressed air experiment at Pittsfield, Illinois [DE83-016930] 03 p0404 N84-12643
Geology of carbonate aggregate resources of Illinois, Illinois mineral notes [PB83-251140] 04 p0565 N84-13725
Water resources data for Illinois, water year 1982. Volume 1: Illinois except Illinois River Basin [PB84-120112] 09 p1338 N84-18738
Water resources data for Illinois, water year 1982. Volume 2: Illinois River Basin [PB84-120120] 09 p1338 N84-18739
Airport noise and land use compatibility at downstate Illinois airports [PB84-177377] 17 p2611 N84-26716
Petrography and depositional environment of the Herrin (no. 6) seam in central, eastern and northwestern Illinois 21 p3438 N84-31813

ILLUMINANCE
Model for illuminance on horizontal and vertical surfaces [DE83-011973] 03 p0475 N84-13127
Graphical method for determining interflected daylight in clear climates [DE83-011989] 03 p0475 N84-13128
DOE-2, supplement, version 2.1B [LBL-8706-REV-3-SUPPL] 16 p2519 N84-26171

ILLUMINATING
Multifrequency scattering for target characterization and identification: A summary of recent results 06 p0870 N84-15663
Fluorescent discharge lamp [NASA-TM-77456] 10 p1485 N84-19706
Method of reducing temperature in high-speed photography [NASA-TM-83620] 12 p1907 N84-22421
An algorithm for the estimation of limiting recognition range of image intensifier systems [SRDE-7100] 15 p2389 N84-25333
Daylight availability as a function of atmospheric conditions [DE84-007973] 20 p3247 N84-30609

ILLUMINATION
Integration of detectors with optical waveguide structures [AD-A133855] 05 p0674 N84-14430
Effect of UV illumination on the sublimation of basal surfaces of zinc oxide [AD-A133383] 06 p0801 N84-15222
Analysis of a Cassegrain antenna having a Gaussian illumination pattern [REPT-S-147] 15 p2320 N84-24927
Predicting energy savings attributed to daylighting 16 p2514 N84-26132
The predicted impact of linear roof apertures on the energy performance of office buildings 16 p2514 N84-26133

ILS (LANDING SYSTEMS)
U INSTRUMENT LANDING SYSTEMS

ILYUSHIN AIRCRAFT
NT IL-62 AIRCRAFT

ILYUSHIN IL-62 AIRCRAFT
U IL-62 AIRCRAFT

IMAGE ANALYSIS
Study of LANDSAT-D thematic mapper performance as applied to hydrocarbon exploration [E84-10003] 02 p0235 N84-11544
LANDSAT-D investigations in snow hydrology [E84-10004] 02 p0235 N84-11545
LANDSAT-D thematic mapper image dimensionality reduction and geometric correction accuracy [E84-10011] 02 p0236 N84-11549
Analysis of the quality of image data acquired by the LANDSAT-4 thematic mapper and multispectral scanners [E84-10028] 02 p0238 N84-11561
Digital image processing [INPE-2873-PRE/402] 02 p0277 N84-11816
Scaling theorems for zero-crossings [AD-A131599] 02 p0281 N84-11839
LANDSAT 4 investigations of thematic mapper and multispectral scanner applications [E84-10006] 03 p0392 N84-12555
Proceedings of the NASA Symposium on Mathematical Pattern Recognition and Image Analysis [E84-10032] 03 p0392 N84-12557
Estimating location parameters in a mixture model 03 p0392 N84-12559
Multivariate density estimation and remote sensing 03 p0393 N84-12560
An empirical Bayes approach to spatial analysis 03 p0393 N84-12563
Quantile data analysis of image data 03 p0393 N84-12565
Repeated-measures analysis of image data 03 p0393 N84-12567
Image matching using generalized Hough transforms 03 p0394 N84-12569
Analysis of subpixel registration accuracy 03 p0394 N84-12570
Relating spatial patterns in image data to scene characteristics 03 p0394 N84-12573
Shape from shading: An assessment 03 p0394 N84-12574
The influence of sensor and flight parameters on texture in radar images 03 p0394 N84-12575
Earth Resources Laboratory research and technology [E84-10033] 03 p0395 N84-12576
Measuring landscape information content and distribution on a SAR-580 image 03 p0397 N84-12596
Interpretability of wetland on SEASAT-A imagery in the polderland of Flanders: A structural approach 03 p0397 N84-12597
Remote sensing analysis of oil pollution in Augusta Bay, Sicily 03 p0400 N84-12616
Pyramid methods in image analysis 03 p0426 N84-12796
Information content of data from the LANDSAT 4 Thematic Mapper (TM) and multispectral scanner (MSS) [E84-10034] 04 p0551 N84-13626
LANDSAT 4 image data quality analysis [E84-10036] 04 p0551 N84-13629
The use of linear feature detection to investigate thematic mapper data performance and processing [E84-10037] 04 p0551 N84-13630
Analysis of the quality of image data acquired by the LANDSAT-4 Thematic Mapper (TM) of the Black Hills area, South Dakota [E84-10041] 04 p0552 N84-13634
Coincident extraction of line objects from stereo image pairs [AD-A133892] 05 p0697 N84-14576
Thematic mapper radiomtric variability on ostensibly uniform agricultural scenes [E84-10035] 06 p0864 N84-15626
Spatial reasoning to determine stream network from LANDSAT imagery [E84-10063] 06 p0865 N84-15632
A representation for shape based on peaks and ridges in the difference of low-pass transform [AD-A133299] 06 p0901 N84-15849
Application of image processing technology to problems in manuscript encapsulation — Codex Hammer [NASA-CR-173200] 07 p1007 N84-16528
Urban land use of the Sao Paulo metropolitan area by automatic analysis of LANDSAT data [E84-10069] 07 p1020 N84-16616
An initial analysis of LANDSAT 4 Thematic Mapper data for the classification of agricultural, forested wetland, and urban land covers [E84-10073] 07 p1020 N84-16620

LANDSAT 4 investigation of thematic mapper and multispectral scanner applications
[E84-10075] 07 p1021 N84-16822
Design and prototype implementation of SCAN: A programming language for scene analysis
08 p1210 N84-17893
Theory of image analysis and recognition
[AD-A135453] 08 p1240 N84-18106
CCRS proposal for evaluating LANDSAT-4 MSS and TM data
[E84-10096] 10 p1522 N84-19966
Revised radiometric calibration technique for LANDSAT-4 Thematic Mapper data by the Canada Centre for Remote Sensing 10 p1522 N84-19967
Revised radiometric calibration technique for LANDSAT-4 Thematic Mapper data
10 p1522 N84-19968
LANDSAT-4 MSS interband registration
10 p1523 N84-19969
Analysis of the quality of image data acquired by the LANDSAT-4 thematic mapper and multispectral scanners — Plumas County, California
[E84-10106] 12 p1829 N84-21924
Application of LANDSAT data to the study of urban development in Brasilia
[E84-10142] 16 p2507 N84-26090
PAME Proceedings, Pattern Analysis in the Marine Environment, An Ocean Science and Technology Workshop
[AD-A140195] 16 p2532 N84-26257
LANDSAT-4 image data quality analysis
[E84-10158] 17 p2709 N84-27250
Analysis of SEASAT SAR imagery collected during the JASIN experiment
[AD-A140584] 17 p2721 N84-27320
Registration of a LANDSAT image to DTM (Digital Terrain Matrix): An error analysis
[AD-A141766] 19 p3041 N84-29297
Geodetic accuracy of LANDSAT-4 Multispectral Scanner and Thematic Mapper data 20 p3211 N84-30399
Radiometric accuracy assessment of LANDSAT-4 Multispectral Scanner (MSS) data — Vermont
20 p3211 N84-30401
Geometric accuracy assessment of LANDSAT-4 Multispectral Scanner (MSS) — Washington, D.C.
20 p3212 N84-30407
Impact of LANDSAT MSS sensor differences on change detection analysis 20 p3212 N84-30408
Quick look analysis of TM data of the Washington, District of Columbia area 20 p3214 N84-30418
Study of Thematic Mapper and Multispectral Scanner data applications 20 p3215 N84-30421
Parametric and nonparametric analysis of LANDSAT TM and MSS imagery for detecting submerged plant communities 20 p3215 N84-30424
A first evaluation of LANDSAT TM data to monitor suspended sediments in lakes 20 p3215 N84-30425
The use of Thematic Mapper data for land cover discrimination: Preliminary results from the UK Satmap programme 20 p3216 N84-30426
Investigation of LANDSAT D Thematic Mapper geometric performance: Line to line and band to band registration — Toulouse, France and Mississippi, U.S.A.
[E84-10187] 21 p3429 N84-31758
LANDSAT-4 Thematic Mapper Modulation Transfer Function (MTF) evaluation — San Matteo Bridge and Stockton, California
[E84-10188] 21 p3430 N84-31759
Modular image analysis system
[BMFT-FB-T-84-074] 21 p3499 N84-32177
LANDSAT-4 image data quality analysis — LANDSAT 5 imagery
[E84-10173] 22 p3613 N84-32893
Mapping project on land use changes in the carboniferous region of Santa Catarina
[NASA-CR-173946] 23 p3763 N84-33853
Trends in Planetary Data Analysis. Executive summary of the Planetary Data Workshop
[NASA-CP-2333] 23 p3841 N84-34363
A modeling analysis program for the JPL Table Mountain Io sodium cloud data
[NASA-CR-173971] 23 p3844 N84-34386
Clouds with appearance like Cb-cloud on satellite imagery 24 p3921 N84-34818
An explanation of the revised DVORAK technique for estimating tropical cyclone intensity using satellite cloud imagery and some results of its application to two 1982 storms 24 p3921 N84-34820

IMAGE CONTRAST
Utility of the cortical evoked response as a measure of photographic image quality
[AD-A131679] 03 p0377 N84-12455
Design criteria for reducing popping in area-of-interest displays: Preliminary experiments
[AD-A136769] 10 p1430 N84-19351
An automatic sine-wave grating controller to be used for contrast sensitivity testing
[AD-A136294] 12 p1812 N84-21811
Optical and human performance evaluation of HUD (Head-Up Display) systems design
[AD-A140801] 17 p2588 N84-26587
The DFVLR contrast transmittance model SCOTRAN-program system: Description and operating instruction
[DFVLR-FB-84-18] 20 p3243 N84-30589
LANDSAT-4 MSS and Thematic Mapper data quality and information content analysis
23 p3766 N84-33871

IMAGE CONVERTERS
NT IMAGE TUBES
NT THERMICONS
A dual digital to video converter for avionics symbology and messages
[AD-A136383] 12 p1771 N84-21547
Acousto-Optic Adaptive Processing (AOAP)
[AD-A141445] 19 p3100 N84-29689
A dual digital to video converter and color video insetter for avionics symbology and messages
[AD-A143772] 23 p3693 N84-33408

IMAGE DISSECTOR TUBES
Image dissector camera system study
[NASA-CR-171759] 11 p1658 N84-20806
On segmentation of digital images using spatial and contextual information via a 2-dimensional Markov model
[AD-A137942] 11 p1715 N84-21186
Image dissector tube star trackers performance: Advantages and drawbacks as compared to those of charge transfer device star trackers
15 p2266 N84-24606

IMAGE ENHANCEMENT
The effects of solar incidence angle over digital processing of LANDSAT data
[E84-10007] 01 p0099 N84-10641
Edge- and contour detection for correction of low-pass filtered images
[PB83-217489] 06 p0918 N84-15969
Image analysis with use of range information
[FOA-C-30335-E1] 08 p1222 N84-17979
An analysis of new techniques for radiometric correction of LANDSAT-4 Thematic Mapper images — Terrebonne Bay, Louisiana and Grand Bahamas scenes
[E84-10086] 10 p1521 N84-19957
Flash X-ray with image enhancement applied to combustion events 13 p1948 N84-22666
Utilization of digital LANDSAT imagery for the study of granitoid bodies in Rondonia: Case example of the Pedra Branca massif
[E84-10120] 14 p2167 N84-23979
Investigation of image enhancement techniques for the development of a self-contained airborne radar navigation system
[NASA-CR-166530] 16 p2445 N84-25684
Analysis of the quality of image data acquired by the LANDSAT-4 Thematic Mapper and Multispectral Scanners
[E84-10137] 16 p2506 N84-26085
Comparative assessment of LANDSAT-D MSS and TM data quality for mapping applications in the Southeast
[E84-10138] 16 p2508 N84-26086
Multiseasonal variables in digital image enhancements for geological applications
[E84-10145] 16 p2508 N84-26093
Methodological approach in lithological discrimination by digital processing: A case study in the Serra do Ramalho, state of Bahia
[INPE-3108-PRE/507] 16 p2509 N84-26101
Voyager 1 imaging and IRIS observations of Jovian methane absorption and thermal emission: Implications for cloud structure
[NASA-CR-173567] 16 p2579 N84-26544
Automatic image processing
[INPE-3001-MD/024] 17 p2752 N84-27484
LANDSAT-4 radiometric and geometric correction and image enhancement results — San Francisco Bay, California 20 p3206 N84-30370
Holographic image subtraction by recording in Fourier plane and space filtration with thin light beam
20 p3289 N84-30882
A fast method for computer image enhancement
[INPE-3170-PRE/540] 21 p3465 N84-31985
Real-time optical filtering system with spatial and temporal enhancement of visual information
[AD-D011106] 22 p3656 N84-33172

IMAGE FILTERS
Optical processing in radon space
[AD-A137033] 10 p1579 N84-20343
Method of flicker suppression in television image
17 p2632 N84-26838

IMAGE FURNACES
Concept study of an automatic ellipsoidal mirror furnace facility, prephase A. Volume 1: Executive summary
[ERC-RP-200-DS-009-VOL-1] 08 p1141 N84-17423
Concept study of an automatic ellipsoidal mirror furnace facility, prephase A. Volume 2: Technical descriptions
[ERC-RP-200-DS-009-VOL-2] 08 p1141 N84-17424
Multipoint method for sample temperature measurement in a mirror furnace
[TS-14-83] 23 p3752 N84-33789

IMAGE INTENSIFIERS
High-speed videography combined with an x-ray image intensifier for dynamic radiography
[DE83-017233] 03 p0442 N84-12905
High-speed videography for optical and X-ray imaging
[DE84-002272] 05 p0748 N84-14910
Nanosecond image-shuttering studies at Los Alamos National Laboratory
[DE84-001733] 06 p0830 N84-15405
Interfacing a two-stage image intensifier tube to an echelle spectrograph 06 p0929 N84-16035
Ultrafast gated intensifier design for laser fusion X-ray framing applications
[DE84-007761] 15 p2339 N84-25038
An algorithm for the estimation of limiting recognition range of image intensifier systems
[SRDE-7100] 15 p2389 N84-25333
Problems in the spectroscopy of cool carbon stars
15 p2422 N84-25549
Optical ionospheric mapping
[AD-A140508] 16 p2526 N84-26218
Real-time X-ray diffraction: Applications to materials characterization 18 p2939 N84-28644

IMAGE MOTION COMPENSATION
Computational studies in the interpretation of structure and motion: Summary and extension
[AD-A131598] 02 p0265 N84-11748
PDSS/IMC qualification test user's manual — payload development support system image motion compensator
[NASA-CR-171025] 15 p2389 N84-25334
PDSS/IMC qualification test software acceptance procedures
[NASA-CR-171026] 15 p2389 N84-25335
Display-control compatibility in 3-D displays
[AD-A140640] 17 p2748 N84-27444
Eye movements and spatial pattern vision
[AD-A140949] 18 p2914 N84-28481
Reflight certification software design specifications
[NASA-CR-171138] 21 p3465 N84-31986

IMAGE PROCESSING
NT BAND RATIOING
NT GEOMETRIC RECTIFICATION (IMAGERY)
A description of the NORDA satellite remote sensing hardware/software for prospective users
[AD-A130779] 01 p0067 N84-10438
The effects of solar incidence angle over digital processing of LANDSAT data
[E84-10007] 01 p0099 N84-10641
Evaluation of LANDSAT-4 TM and MSS ground geometry performance without ground control
[E84-10022] 01 p0099 N84-10644
Multi-temporal analysis of LANDSAT imagery for bathymetry
[AD-A130648] 01 p0100 N84-10652
Lateral variations in geologic structure and tectonic setting from remote sensing data
[AD-A130758] 01 p0105 N84-10683
Fourier-processed images of dynamic lung function from list-mode data
[DE83-013276] 01 p0114 N84-10741
Automated stereo perception
[AD-A130645] 01 p0122 N84-10792
A study of texture analysis algorithms
[AD-A131498] 01 p0123 N84-10802
Space-variant optical systems
[AD-A130096] 01 p0146 N84-10961
Image Understanding, 14th Workshop
[AD-A130251] 01 p0147 N84-10963
Finding edges and lines in images
[AD-A130824] 01 p0147 N84-10967
Integrated command, control, communication and computation system design study. Summary of tasks performed
[NASA-CR-170611] 02 p0209 N84-11361
A conceptual study of automatic and semi-automatic quality assurance techniques for round image processing
[NASA-CR-170610] 02 p0230 N84-11508
LANDSAT-4 thematic mapper Modulation Transfer Function (MTF) evaluation
[E84-10014] 02 p0236 N84-11552
CCRS proposal for evaluating LANDSAT-D MSS and TM data
[E84-10026] 02 p0238 N84-11560

Digital transmission and visualization of meteorological satellite images
[INPE-2809-PRE/367] 02 p0239 N84-11567
Determining attitude of object from needle map using extended Gaussian image
[AD-A131617] 02 p0240 N84-11571
Computer vision research and its applications to automated cartography
[AD-A131289] 02 p0240 N84-11572
Ultrasound tomography by Galerkin or moment methods
[AD-A131408] 02 p0266 N84-11747
A data compressor system
[INPE-2847-PRE/389] 02 p0270 N84-11766
Nonlinear filter system for image preprocessing
[BMFT-FB-DV-83-001] 02 p0274 N84-11796
Digital image processing
[INPE-2873-PRE/402] 02 p0277 N84-11816
The Gordon Research Conference on Holography and Optical Information Processing
[AD-A129137] 02 p0293 N84-11923
Three-dimensional feature extraction
[AD-A131333] 02 p0294 N84-11926
Techniques for integrated text and image processing and communication
[BMFT-FB-T-83-104] 02 p0302 N84-11985
Digital image registration by sequential analysis
[INPE-2940-PHE/429] 03 p0378 N84-12446
LANDSAT 4 investigations of thematic mapper and multispectral scanner applications
[E84-10006] 03 p0392 N84-12555
SAR speckle noise reduction using Wiener filter
03 p0393 N84-12568
Progress in the scene-to-map registration investigation
03 p0394 N84-12572
Earth Resources Laboratory research and technology
[E84-10033] 03 p0395 N84-12576
Glaciological applications of LANDSAT images in connection with hydropower investigations in West Greenland 03 p0398 N84-12598
Rectification of multispectral scanner images
[GEOWISS-MITT-24-1983] 03 p0402 N84-12628
Evaluation of automated imagery analysis algorithms for use in the three-dimensional nephanalysis model at AFGWC (Air Force Global Weather Central)
[AD-A131986] 03 p0410 N84-12686
Galilean satellite geomorphology
[NASA-CR-174574] 03 p0464 N84-13057
Reflection and identification studies applied to terrain imaging radar
[AD-A132401] 04 p0520 N84-13419
The United Kingdom SATMaP program
[E84-10002] 04 p0551 N84-13627
The use of linear feature detection to investigate thematic mapper data performance and processing
[E84-10037] 04 p0551 N84-13630
Comparative assessment of LANDSAT-4 MSS and TM data quality for mapping applications in the southeast
[E84-10040] 04 p0551 N84-13633
Rise in the frequency of cloud cover in LANDSAT data for the period 1973 to 1981 — Brazil
[E84-10047] 04 p0553 N84-13640
Generating three-dimensional surface models of solid objects from multiple projections
[AD-A132392] 04 p0580 N84-13824
Overview of digital-image processing
[DE84-000156] 04 p0583 N84-13848
Advanced pattern recognition
[AD-A132339] 04 p0604 N84-13987
Coincident extraction of line objects from stereo image pairs
[AD-A133662] 05 p0697 N84-14576
Picking up an object from a pile of objects
[AD-A133631] 05 p0716 N84-14691
Real visual image compensation for head motion parallax effects as a function of object distance
[AD-A132915] 05 p0720 N84-14717
Numerical problems for the implantation of an INPE atmospheric correction system for LANDSAT images
[INPE-2801-PRE/361] 05 p0721 N84-14727
Bayes smoothing algorithms for segmentation of images modelled by Markov random fields
[AD-A133966] 05 p0734 N84-14817
High resolution 3-d tomographic imaging by wavelength and polarization diversity
[AD-A134101] 05 p0747 N84-14903
The possibility of reduction of the subjective redundance of image signals with particular reference to contour coding — visual perception
[FUB-43-1982] 05 p0748 N84-14911
Experimental techniques for free edges of turbulent flows 06 p0837 N84-15450
Image understanding research and its application to cartography and computer-based analysis of aerial imagery
[AD-A133495] 06 p0866 N84-15642
POPEYE: A gray-level vision system for robotics applications
[AD-A133296] 06 p0893 N84-15804
A representation for shape based on peaks and ridges in the difference of low-pass transform
[AD-A133299] 06 p0901 N84-15849
Application of the Gibbs distribution to image segmentation
[AD-A133406] 06 p0901 N84-15850
Low-ionization emission regions in the nuclei of spiral galaxies 06 p0939 N84-16100
Maximum entropy methods in electromagnetic/geophysical/ultrasonic imaging
[DE84-002793] 07 p0994 N84-16445
Study of spectral/radiometric characteristics of the thematic mapper for land use applications
[E84-10058] 07 p1020 N84-16615
CNPq/INPE LANDSAT system
[E84-10071] 07 p1020 N84-16618
LANDSAT-D investigations in snow hydrology
[E84-10074] 07 p1021 N84-16621
Geostationary meteorological satellite image navigation
[INPE-2772-RPE/435] 07 p1023 N84-16632
Bit weighting and soft decision demodulation for image compression & error control
[AD-A134187] 07 p1054 N84-16825
An approach to rotation invariant texture classification and some experimental results
[AD-A134197] 07 p1061 N84-16881
Breadboard stellar tracker system test report
[NASA-CR-170973] 08 p1102 N84-17166
APQ-102 imaging rader digital image quality study
[NASA-CR-171738] 08 p1143 N84-17435
Simply instrumentable and optimal digitization of analog information sources
[AD-A135124] 08 p1150 N84-17484
Remote sensing for geology 08 p1177 N84-17668
Approaches to radar image interpretation
08 p1177 N84-17669
Pattern recognition and image processing review
[AD-B084815] 08 p1211 N84-17897
Standard methods for image processing. Part 4: Operating instructions for the program system
[BMVG-FBWT-83-1] 08 p1213 N84-17915
Image analysis with use of range information
[FOA-C-30335-E1] 08 p1222 N84-17979
A test strategy for high resolution image scanners
[AD-A134998] 08 p1231 N84-18048
A model for ordinal filtering of digital images
[AD-A134705] 08 p1232 N84-18052
Geography information systems project
[INPE-2782-PRE/348] 08 p1239 N84-18100
Optical data processing for missile guidance
[AD-A136216] 09 p1254 N84-18188
Multi-dimensional signal processing research program
[AD-A135732] 09 p1302 N84-18511
Development and applications of the microchannel spatial light modulator
[AD-A136132] 09 p1323 N84-18645
Constructing a depth map from images
[AD-A135679] 09 p1337 N84-18731
Detection of bright spots in seismic signal using pattern recognition techniques
[AD-A136210] 09 p1346 N84-18793
VISSR observation of the solar eclipse in rapid-interval limited scan mode 09 p1347 N84-18802
Measurement of thigmomorphogenesis and gravitropism by non-intrusive computerized video image processing
09 p1356 N84-18859
A versatile parallel image processor system
[AD-A136292] 09 p1365 N84-18910
A comparison of the Cellular Logic Image Processor (CLIP) 4; Distributed Array Processor (DAP) and Massively Parallel Processor (MPP) processor-array implementations
[NLR-MP-82054-U] 09 p1366 N84-18917
An image processing language
[AD-A135665] 09 p1368 N84-18926
Zooming and smoothing images using convolution procedures
[AD-A135659] 09 p1372 N84-18957
Extended Gaussian images
[AD-A135747] 09 p1389 N84-19073
Parallel algorithms for image analysis, extended summary 09 p1402 N84-19161
Concurrent VLSI architectures for two dimensional signal processing systems 09 p1402 N84-19162
VLSI architectures for pattern analysis and image database management 09 p1403 N84-19163
A classification algorithm for star-galaxy counts
09 p1409 N84-19207
Los Alamos real-time and digital radiography plans
[DE84-004327] 10 p1482 N84-19685
X-ray holographic microscopy experiments at the Brookhaven synchrotron light source
[DE84-004289] 10 p1499 N84-19796
LINUS, a line-selective equipment for AGA thermovision
[FOA-C-30348-E4] 10 p1500 N84-19802
Vibration challenges in microelectronics manufacturing
10 p1508 N84-19870
Demonstration of angular anisotropy in the output of Thematic Mapper
[E84-10095] 10 p1522 N84-19965
Radiometric calibration and geocoded precision processing of LANDSAT-4 MSS products
10 p1523 N84-19975
Current status of th Brazilian LANDSAT facilities
10 p1523 N84-19977
Description and status report on TM processing system 10 p1523 N84-19978
NASA TM processing system description and status
10 p1524 N84-19979
TM data available at EDC, and EDC TM data handling and processing plan 10 p1524 N84-19980
Summary of LANDSAT Technical Working Group (LTWG) meetings 10 p1524 N84-19984
Installing a copy of the ARPA/DMA image understanding testbed at the US Army engineer topographic laboratories
[AD-A136999] 10 p1525 N84-19991
Implement of the computer program-system MOSS (Map overlay and statistical system) on a VAX-11 series computer under VMS
[AD-A137104] 10 p1525 N84-19992
A system for receiving and analyzing meteorological satellite data at small meteorological/oceanographic centres or aboard ship
[AD-A137215] 10 p1540 N84-20068
The vectorization of a ray tracing program for image generation 10 p1561 N84-20231
Exact image theory for the Sommerfeld half-space problem with a vertical magnetic dipole
[REPT-S-142] 10 p1572 N84-20301
An improved version of the chamfer matching algorithm — for image processing
[FOA-C-30344-E1] 10 p1572 N84-20303
Processing of optical gray value patterns
[BMFT-FB-DV-83-003] 10 p1579 N84-20348
Ultrasonic transducer arrays for nondestructive testing
11 p1645 N84-20757
Quality metrics of digitally derived imagery and their relation to interpreter performance: 8
[AD-A137726] 11 p1660 N84-20830
Application of marine acoustic systems
[PB84-141381] 11 p1692 N84-21037
Boundary values of parameters and perspectives for the development of sensors for thermal imaging equipment
[AD-A137185] 11 p1732 N84-21297
Development of a data management front-end for use with a LANDSAT-based information system
[NASA-CR-175151] 11 p1749 N84-21418
Analysis of flares observed during the solar maximum year
[AD-A137922] 11 p1759 N84-21481
Electrophoretic recording of color images with high quality
[BMFT-FB-T-83-319] 12 p1794 N84-21702
Technical addendum to the study: ERS-1 Mission, Fucino Station. SAR processor based upon EMMA architecture
[ERI-171] 12 p1809 N84-21791
X-ray imaging of biological specimens
[DE84-006287] 12 p1819 N84-21855
Performance evaluation and geologic utility of LANDSAT-4 TM and MSS data
[E84-10099] 12 p1828 N84-21918
Image-plane processing for improved computer vision
12 p1904 N84-22404
Image filtering with Boolean and statistical operators
[AD-A138421] 12 p1908 N84-22428
On-line preprocessing of gray scale images
[BMFT-FB-DV-83-004] 12 p1909 N84-22435
Compression algorithm for data analysis in a radio link (preparation of PACEM 2 experiment)
[CRPE-NT-121] 13 p1984 N84-22881
LANDSAT-D investigations in snow hydrology
[E84-10094] 13 p2003 N84-22997
Registration of TM data to digital elevation models
13 p2004 N84-22999
LANDSAT 4 investigations of Thematic Mapper and multispectral scanner applications --- Death Valley, California; Silver Bell Copper Mine, Arizona, and Dulles Airport near Washington, D.C.
[E84-10100] 13 p2004 N84-23003
The Pennsylvania defoliation application pilot test
[E84-10111] 13 p2004 N84-23004
LANDSAT 4 band 6 data evaluation
[E84-10119] 13 p2005 N84-23009

A potentially powerful method of simple automatic recognition exhibiting scale and orientation independance — image processing
[BAE-BT-11088] 13 p2021 N84-23102
Some considerations of forms and distributions of receptive field units in early visual processing
[BAE-BT-11177] 13 p2021 N84-23103
A high speed processor for binary images
[AD-A138906] 13 p2025 N84-23125
Image acquisition and manipulation system
[AD-A138927] 13 p2026 N84-23153
Image compression: A 2-dimensional run-length coding 13 p2030 N84-23162
Comparison of processor arrays with pipeline processors for image processing
[NLR-MP-83011-U] 13 p2030 N84-23165
Adaptive hybrid picture coding
[AD-A138876] 13 p2033 N84-23184
Feasibility studies of optical processing of image bandwidth compression schemes
[AD-A138736] 13 p2043 N84-23254
Photometry of icy satellites: How important is multiple scattering in diluting shadows? 13 p2073 N84-23438
Comparison of Hapke's photometric theory with Voyager observations of Europa, Enceladus, Rhea and Mimas 13 p2074 N84-23439
High-resolution color images of Io 13 p2075 N84-23446
Short time-scale surface changes on Io 13 p2075 N84-23447
Multi-image photometric solutions for the Galilean satellites 13 p2087 N84-23522
Rapid extraction of relative topography from Viking orbiter images. 2: Application to irregular topographic features 13 p2087 N84-23523
The Galilean Satellite Geological Mapping Program, 1983 13 p2090 N84-23541
Automated rendezvous and docking: A parametric study
[NASA-TP-2314] 14 p2115 N84-23677
Activities at the Lunar and Planetary Institute
[NASA-CR-173528] 14 p2166 N84-23974
Evaluation of the effects of the seasonal variation of solar elevation angle and azimuth on the processes of digital filtering and thematic classification of relief units
[E84-10121] 14 p2167 N84-23980
A constrained-clustering approach to the analysis of remote sensing data
[AD-A139124] 14 p2169 N84-23993
Preliminary DSRS design
[AD-A138890] 14 p2169 N84-23995
Picking parts out of a bin
[AD-A139257] 14 p2187 N84-24106
Image processing algorithms for a multiple-valued array processor
[AD-P002359] 14 p2193 N84-24150
Photoacoustic imaging
[AD-A139298] 14 p2224 N84-24350
Experiments to correct a digital map data base using scene analysis
[AD-A139447] 14 p2248 N84-24499
The detection of faint space objects using solid state imaging detectors
[AD-A139297] 14 p2250 N84-24513
Wake visualization
[BU-262] 15 p2255 N84-24542
Design and calibration of a CW coherent laser radar
[FOA-C-30345-E1] 15 p2320 N84-24930
Polarization utilization in radar target reconstruction: C-wide (Multi-frequency) band relationship of a target's characteristic operators with its unique set of natural eigenfrequencies
[AD-A140092] 15 p2321 N84-24938
Evidence accumulation for spatial reasoning in aerial image understanding
[AD-A139874] 15 p2336 N84-25025
Study on spectral/radiometric characteristics of the Thematic Mapper for land use applications
[E84-10130] 15 p2357 N84-25140
Photogrammetric research
[TRITA-FMI-47] 15 p2358 N84-25146
General triangulation: Incorporating photogrammetric and other observations 15 p2358 N84-25151
Activities report of the Laboratory for Computer Science (FOA 32)
[FOA-C-30356-E1] 15 p2388 N84-25326
Compression and Decompression of Imaging Sensor Signals (CADISS): An image (de)compression system for deep space application
[NLR-MP-83028-U] 15 p2390 N84-25339
Linear associative mappings
[DFVLR-FB-84-01] 15 p2396 N84-25375
Geometrical transformation of binary images
[FOA-C-30342-E1] 15 p2397 N84-25380
Two-dimensional fast Fourier transforms in image processing
[AD-A139997] 15 p2398 N84-25390
Publications of the Jet Propulsion Laboratory 1982
[NASA-CR-173539] 15 p2417 N84-25510
Advances in planetary geology
[NASA-TM-86247] 15 p2426 N84-25567
Digital image processing of muscle biopsies 15 p2430 N84-25593
Computer-aided analysis of atherosclerosis 15 p2431 N84-25596
Investigation of image enhancement techniques for the development of a self-contained airborne radar navigation system
[NASA-CR-166530] 16 p2445 N84-25684
Digital Image Processing in Fluid Dynamics
[VKI-LS-1984-03] 16 p2490 N84-25973
Digital image processing and analysis 16 p2490 N84-25974
Planning an experiment for digital image processing 16 p2490 N84-25976
Post-processing: Extracting and displaying useful information from digital images 16 p2491 N84-25977
Instantaneous concentration and velocity measurements through laser visualization associated with a digital processing system 16 p2491 N84-25978
Principal components technique analysis for vegetation and land use discrimination — Brazilian cerrados
[E84-10135] 16 p2506 N84-26083
Analysis of the quality of image data acquired by the LANDSAT-4 Thematic Mapper and Multispectral Scanners
[E84-10137] 16 p2506 N84-26085
Sampling system for wheat (Triticum aestivum L) area estimation using digital LANDSAT MSS data and aerial photographs — Brazil
[E84-10139] 16 p2506 N84-26087
An integrated software system for geometric correction of LANDSAT MSS imagery
[E84-10143] 16 p2507 N84-26091
Earthnet: The story of images
[ESA-BR-18] 16 p2509 N84-26102
Digital processing of LANDSAT data for the preparation of a land use map of the rural district surrounding Tuebingen to a scale of 1:50000
[ESA-TT-816] 16 p2509 N84-26104
Interactive digital image processing for terrain data extraction, phase 4
[AD-A140197] 16 p2510 N84-26107
PAME Proceedings, Pattern Analysis in the Marine Environment, An Ocean Science and Technology Workshop
[AD-A140195] 16 p2532 N84-26257
Cluster analysis package for image segmentation
[AD-P003117] 16 p2532 N84-26258
Fourier shape analysis: A multivariate pattern recognition approach
[AD-P003118] 16 p2532 N84-26259
Fuzzy algorithms for pattern recognition
[AD-P003119] 16 p2533 N84-26260
Application of computer image processing to underwater surveys
[AD-P003122] 16 p2533 N84-26263
Spatial image processing masks from frequency domain specifications
[AD-P003126] 16 p2534 N84-26267
An evaluation of the directed flow graph methodology
[NASA-CR-173593] 16 p2543 N84-26324
On the relationship between Gaussian and binomial models for image registration by sequential tests of hypotheses
[INPE-3047-PRE/470] 16 p2548 N84-26350
Characteristic faults of input stabilizing and correcting equipment in television transmitting stations 17 p2632 N84-26837
Method of flicker suppression in television image 17 p2632 N84-26838
Contextual classification of remotely sensed data 17 p2708 N84-27245
LANDSAT 4 investigations of Thematic Mapper and Multispectral Scanner applications
[E84-10152] 17 p2709 N84-27247
Evaluating LANDSAT-4 MSS and TM data
[E84-10157] 17 p2709 N84-27249
Implementation of cellular-logic operators using 3 x 3 convolution and table look-up hardware
[NLR-MP-83039-U] 17 p2750 N84-27454
Automatic image processing
[INPE-3001-MD/024] 17 p2752 N84-27464
Study on the influence of X-ray focus on the image quality in radiological systems 17 p2764 N84-27555
Weather satellites
[KNMI-152-BV-3] 18 p2802 N84-27783
Signal detection and block truncation coding for image compression
[AD-A141162] 18 p2829 N84-27958
Characteristics of the MSFC, PDS microdensitometer 18 p2840 N84-28026
Automated microdensitometer for digitizing astronomical plates 18 p2841 N84-28039
The Sacramento Peak fast microphotometer 18 p2841 N84-28040
Data compression techniques for astronomy 18 p2842 N84-28041
The automated photographic measuring facility at Cambridge 18 p2842 N84-28043
Plans for a fast image recording system at ESO 18 p2842 N84-28048
The role of the Automated Plate Measuring (APM) machine in developing a program to discover QSOs automatically 18 p2843 N84-28054
RIMSTAR: Rapid image scanning technology and archiving 18 p2843 N84-28055
Research on land use cartography by remote sensing 18 p2867 N84-28201
Remote sensing of the Santonge littoral. Processing and interpretation of satellite images
[ISBN-2-85929-016-8] 18 p2867 N84-28202
Cloud cover typing from environmental satellite imagery. Discriminating cloud structure with Fast Fourier Transforms (FFT)
[NASA-CR-173727] 18 p2883 N84-28296
A study of precipitation occurrence using visual and infrared satellite data
[AD-A141012] 18 p2889 N84-28338
Multi-dimensional signal processing research program
[AD-A141273] 18 p2917 N84-28497
Robotron image processing systems 18 p2919 N84-28509
MITS II (Microfiche Image Transmission System) investigations and design alternatives
[AD-A141040] 18 p2945 N84-28673
Processing of 'Venera-15, -16' radar mapping imagery 19 p2974 N84-28856
Organizing work with information flows in system for automated processing of data from remote sensing of the Earth for use in agriculture 19 p2977 N84-28873
Automated search for control images on photographs of Earth's surface using spectral analysis 19 p2978 N84-28874
Review of research under the Joint Services Electronics Program
[AD-A141458] 19 p3013 N84-29100
The development of a mathematical foundation for cellular image processing
[AD-A142173] 19 p3042 N84-29301
Applications of texture analysis for rock types discrimination, phase 2
[AD-A142268] 19 p3042 N84-29303
A spiral analysis technique for monitoring and predicting tropical cyclone intensity using satellite data
[AD-A141468] 19 p3058 N84-29401
Morphological skeleton representation and coding of binary images
[AD-A142250] 19 p3079 N84-29536
A maximum-likelihood approach to image segmentation by texture
[AD-A142323] 19 p3090 N84-29619
The missing cone problem in computer tomography and a model for interpolation in synthetic aperture radar
[AD-A142421] 20 p3174 N84-30157
LANDSAT-4 Science Investigations Summary, including December 1983 Workshop results, volume 1
[E84-10166] 20 p3205 N84-30359
LANDSAT-4 system description 20 p3205 N84-30361
Multispectral Scanner (MSS) instrument description 20 p3205 N84-30362
An overview of the Thematic Mapper geometric correction system 20 p3206 N84-30367
Thematic Mapper Image Processing System (TIPS) processing status 20 p3206 N84-30368
Thematic Mapper image production in the engineering checkout phase 20 p3206 N84-30369
TM digital image products for applications 20 p3206 N84-30371
Pre-launch absolute radiometric calibration of LANDSAT-4 protoflight Thematic Mapper 20 p3207 N84-30373
Revised radiometric calibration technique for LANDSAT-4 Thematic Mapper data by the Canada Centre for Remote Sensing 20 p3208 N84-30378
LANDSAT-4 Science Investigations Summary, including December 1983 Workshop results, volume 2
[E84-10167] 20 p3208 N84-30380
LANDSAT-4 MSS and TM spectral class comparison and coherent noise analysis — The Des Moines, Iowa area 20 p3208 N84-30381

Status of the ESA-Earthnet LANDSAT-4 TM ground processing chain 20 p3210 N84-30391
The use of linear feature detection to investigate Thematic Mapper data performance and processing 20 p3210 N84-30393
Spatial resolution estimation of LANDSAT-4 TM data 20 p3210 N84-30394
Investigation of TM band-to-band registration using the JSC registration processor 20 p3211 N84-30398
The effect of point-spread function interaction with radiance from heterogeneous scenes on multitemporal signature analysis — soybean stress 20 p3211 N84-30400
Radiometric calibration and geocoded precision processing of LANDSAT-4 Multispectral Scanner products by the Canada Centre for Remote Sensing 20 p3212 N84-30404
LANDSAT-4 MSS geometric correction: Methods and results 20 p3213 N84-30409
Preliminary geologic/spectral analysis of LANDSAT-4 Thematic Mapper data, Wind River/Bighorn basin area, Wyoming 20 p3213 N84-30413
An initial analysis of LANDSAT-4 Thematic Mapper data for the discrimination of agricultural, forested wetland, and urban land covers 20 p3213 N84-30414
A concept for the processing and display of Thematic Mapper data 20 p3214 N84-30417
Final comparison of TM and MSS data for surface mine assessment in Logan County, West Virginia 20 p3216 N84-30430
Earth Observing System. Science and mission requirements, volume 1, part 1 [NASA-TM-86129-VOL-1-PT-1] 20 p3219 N84-30450
PRISM: A practical real-time imaging stereo matcher [AD-A142532] 20 p3259 N84-30686
Computational experiments with a feature based stereo algorithm [AD-A142549] 20 p3259 N84-30687
Nonlinear dynamics of multi-channel binocular vision [AD-A142600] 20 p3260 N84-30689
Three image compression algorithms for Compression and Decompression of Imaging Sensor Signals (CADISS) [NLR-MP-83027-U] 20 p3275 N84-30791
Smoothed local symmetries and their implementation [AD-A142489] 20 p3279 N84-30811
Development of a device for evaluation of interferograms [BMFT-FB-T-84-097] 21 p3407 N84-31613
Laser color recording unit [BMFT-FB-T-84-098] 21 p3411 N84-31633
Enhanced Fourier algorithms for ultrasonic crack characterization [DE84-012544] 21 p3423 N84-31714
Synoptic scale wind field properties from the SEASAT SASS [E84-10169] 21 p3426 N84-31732
LANDSAT 4 band 6 data evaluation [E84-10175] 21 p3427 N84-31737
The INPE handouts to the 6th LANDSAT Technical Working Group (LTWG) Meeting [E84-10176] 21 p3427 N84-31738
Activities of the Remote Sensing Information Sciences Research Group [E84-10177] 21 p3427 N84-31739
Knowledge-based expert systems for crop identification 21 p3428 N84-31744
The potential of AI techniques for remote sensing 21 p3428 N84-31748
Characterization of radiometric calibration of LANDSAT-4 TM reflective bands [E84-10182] 21 p3429 N84-31753
TM digital image products for applications — computer compatible tapes [E84-10183] 21 p3429 N84-31754
Introduction to Thematic Mapper investigations. Section 1: Radiometry. Section 2: Geometry [E84-10185] 21 p3429 N84-31756
Relative radiometric calibration of LANDSAT TM reflective bands [E84-10186] 21 p3429 N84-31757
Fundamental remote science research program. Part 2: Status report of the mathematical pattern recognition and image analysis project [NASA-TM-58260] 21 p3430 N84-31762
The use of infrared imagery in the study of fault zones [INPE-3143-PRE/529] 21 p3443 N84-31845
Quantitative assessment of role of spatial frequencies of images in visual recognition of numbers 21 p3455 N84-31926
A device-dependent interface for interactive image display [NASA-TM-86136] 21 p3461 N84-31949
Scattering optical activity of chiral molecules: Circular intensity differential scattering and circular differential imaging [DE84-010712] 21 p3493 N84-32137
Modular image analysis system [BMFT-FB-T-84-074] 21 p3499 N84-32177
Image generator architectures and features [AD-P003449] 21 p3506 N84-32226
Image identification by method of integral fluctuations 22 p3568 N84-32601
Programmable signal processing device [AD-D011109] 22 p3580 N84-32673
Photodigitizing procedures [AD-A143589] 22 p3599 N84-32793
Aspects of the Brazil current system according to SMS-2, NOAA-6, and Tiros-N satellites for 1979 to 1980 [INPE-2975-RPE/450] 22 p3627 N84-32982
Array processor utilization in the computation of real-time images [ARL-SYS-TM-73] 22 p3637 N84-33058
The compression of digital imagery by transformation [INPE-2893-PRE/412] 22 p3639 N84-33073
Varying bandpass of optical spatial filter by rotating mirrors having changing reflectivity [AD-D011114] 22 p3656 N84-33173
Point response functions for unfilled optical arrays [AD-A143384] 22 p3657 N84-33183
Digital signal processing 22 p3684 N84-33357
Cognitive information processing 22 p3684 N84-33360
Longwall shearer tracking system [NASA-CASE-MFS-25717-1] 23 p3749 N84-33766
Retrieval for remote sensing image data base with multimedia user interface 23 p3766 N84-33870
The X, and L-band radar backscatterer analysis of agricultural crops in West Germany 23 p3767 N84-33879
Fast automatic reconnaissance in land observations images by means of analog and/or digital images 23 p3768 N84-33885
An interactive procedure for the analysis of linear elements detected in LANDSAT pictures: An application to northern Mozambique 23 p3770 N84-33900
Removal of ambiguity of two-dimensional gray level variance spectra obtained by processing ship radar images of ocean waves 23 p3772 N84-33909
Digital color space transformations 23 p3779 N84-33960
Analysing remotely sensed data on the Massively Parallel Processor 23 p3779 N84-33963
Application of the discrete cosine transform to remote sensing image data compression 23 p3779 N84-33964
A textural image of Algiers — Landsat 23 p3784 N84-33996
Optical acquisition, image and data compression [AD-A143984] 23 p3816 N84-34197
Optical computing research [AD-A143994] 23 p3825 N84-34258
Imaging data 23 p3842 N84-34370
Planetary Data Workshop, part 2 [NASA-CP-2343-PT-2] 23 p3842 N84-34376
SOFT-1: Imaging processing software 23 p3843 N84-34378
Hierarchical multisensor image understanding [AD-A144593] 24 p3898 N84-34688
Autonomous surveillance in the visual spectral region 24 p3914 N84-34786
The theory of Fourier descriptors and how they may be used to characterize shape 24 p3915 N84-34787
Optical processing, its role in surveillance 24 p3915 N84-34788
Automated mesoscale winds derived from GOES multispectral imagery 24 p3933 N84-34895
System for recording and input to computer of one-dimensional images of dim objects and high-speed processes 24 p3941 N84-34951
Image input/output controller-interface based on 16-bit microprocessor 24 p3942 N84-34954
On the semilattice of weak orders of a set [AD-A144631] 24 p3952 N84-35023
A study of tropical cyclone intensity from satellite imagery 24 p3956 N84-35048
An automated technique for determining cloud velocity from GMS data. 1: The design and construction of a scanning converter 24 p3956 N84-35049
Geocoded data structures and their applications to Earth science investigations [NASA-TM-86113] 24 p3968 N84-35127

IMAGE RECONSTRUCTION

Maximum likelihood reconstruction in emission tomography with time-of-flight information: A limited study [AD-A135061] 08 p1217 N84-17944
Automatic holographic droplet analysis for liquid fuel sprays 11 p1609 N84-20531
An iterative method for restoring noisy blurred images [AD-A142201] 19 p3016 N84-29122
Holographic image subtraction by recording in Fourier plane and space filtration with thin light beam 20 p3289 N84-30882

IMAGE RESOLUTION

Pyramid methods in image analysis 03 p0426 N84-12796
Analysis of multispectral scanner (MSS) and Thematic Mapper (TM) performance (pre-launch and post-launch) [E84-10043] 04 p0552 N84-13636
Users manual for NCS (National Communications System) facsimile test document tapes. Addendum [AD-A133630] 05 p0684 N84-14498
Landsat 4 TM-data: Examples of resolution capacity [FOA-C-30329-E1] 06 p0867 N84-15844
Image processing for low resolution target finders [FOA-C-30297-E1,E3] 07 p0962 N84-16238
Investigation of several aspects of LANDSAT-4 data quality [E84-10076] 07 p1021 N84-16823
Comparison of the information content of data from the LANDSAT 4 Thematic Mapper and the multispectral scanner [E84-10081] 08 p1173 N84-17641
Coastal zones inventory by high resolution satellites 08 p1176 N84-17661
A test strategy for high resolution image scanners [AD-A134998] 08 p1231 N84-18048
Design criteria for reducing popping in area-of-interest displays: Preliminary experiments [AD-A136769] 10 p1430 N84-19351
Geometric performance: Line to line displacement analysis 10 p1524 N84-19963
Quality metrics of digitally derived imagery and their relation to interpreter performance: 8 [AD-A137726] 11 p1660 N84-20830
Galilean satellite multispectral data base production 13 p2067 N84-23521
Investigation of several aspects of LANDSAT-4 data quality — Sacramento, San Francisco, and NE Arkansas [E84-10122] 14 p2167 N84-23981
LANDSAT-4 image data quality analysis [E84-10134] 16 p2506 N84-26082
Analysis of the quality of image data acquired by the LANDSAT-4 Thematic Mapper and Multispectral Scanners [E84-10137] 16 p2506 N84-26085
Comparative assessment of LANDSAT-D MSS and TM data quality for mapping applications in the Southeast [E84-10138] 16 p2506 N84-26086
Evaluation of solar angle variation over digital processing of LANDSAT imagery — Brazil [E84-10140] 16 p2507 N84-26088
Evaluation of SIR-A (Shuttle Imaging Radar) images from the Tres Marias region (Minas Gerais State, Brazil) using derived spatial features and registration with MSS-LANDSAT images [E84-10148] 16 p2508 N84-26096
Comparative study of image data produced by satellites with different characteristics [ESA-CR(P)-1867] 16 p2509 N84-26103
Image quality of passive and active scanners [MBB-UA-684-83-O] 16 p2564 N84-26449
Optical and human performance evaluation of HUD (Head-Up Display) systems design [AD-A140601] 17 p2588 N84-26587
Future development trends for Head-Up Displays [AD-P003164] 17 p2589 N84-26595
Requirements to be met by parameters of high-definition television systems for cinematography 17 p2633 N84-26841
LANDSAT-4 image data quality analysis [E84-10158] 17 p2709 N84-27250
Photometric and positional accuracy of the PDS Bonn in view of astronomical requirements 18 p2839 N84-28023
Techniques of isophotometry 18 p2842 N84-28042
Method for creating synthesized images using diazo color films 19 p2978 N84-28875
Contributions to imaging quality and heighting accuracy of serial cameras used at fairly high altitudes 19 p3040 N84-29284
TM digital image products for applications 20 p3206 N84-30371
A preliminary assessment of LANDSAT-4 Thematic Mapper data 20 p3206 N84-30377
A preliminary analysis of LANDSAT-4 Thematic Mapper radiometric performance 20 p3206 N84-30379
An analysis of the high frequency vibrations in early Thematic Mapper scenes 20 p3210 N84-30395
Tests of low-frequency geometric distortions in LANDSAT-4 images 20 p3211 N84-30397
Investigation of radiometric properties of LANDSAT-4 MSS 20 p3211 N84-30403

LANDSAT scene-to-scene registration accuracy assessment 20 p3212 N84-30405
Characterization of LANDSAT-4 TM and MSS image quality for interpretation of agricultural and forest resources 20 p3213 N84-30411
Preliminary evaluation of Thematic Mapper image data quality 20 p3214 N84-30415
Comparison of the information content of data from the LANDSAT-4 Thematic Mapper and the Multispectral Scanner 20 p3215 N84-30420
LANDSAT-4 Thematic Mapper scene characteristics for a suburban and regional test site 20 p3216 N84-30429
Computational experiments with a feature based stereo algorithm
[AD-A142549] 20 p3259 N84-30687
Knowledge-based expert systems for crop identification 21 p3428 N84-31744
TM digital image products for applications — computer compatible tapes
[E84-10178] 21 p3428 N84-31749
Theoretical design and analysis of the layered synthetic microstructure optic for the dual path X-ray telescope
[NASA-CR-171133] 21 p3498 N84-32168
Investigation of several aspects of LANDSAT 4/5 data quality — California, Texas, Arkansas, Alabama, and Pacific Ocean
[E84-10024] 22 p3613 N84-32892
Quality measures for estimating the proportions of different classes within a single image resolution element (Pixel)
[INPE-2791-PRE/354] 23 p3763 N84-33852
LANDSAT-4 MSS and Thematic Mapper data quality and information content analysis 23 p3766 N84-33871
Optimizing image quality for SAR 23 p3777 N84-33950
Large screen display technology survey
[AD-A144222] 24 p3902 N84-34711
An application of VISSR atmospheric sounder (VAS) data in mesoscale analysis 24 p3930 N84-34874

IMAGE ROTATION
Optical analysis of a gimballed mirror system
[DE83-0165765] 02 p0295 N84-11934

IMAGE TUBES
NT THERMICONS
Using photoconductivity to improve image-tube gating speeds
[DE84-001732] 05 p0676 N84-14443
Interfacing a two-stage image intensifier tube to an echelle spectrograph 06 p0929 N84-16035
L-Division streak camera
[DE84-007780] 14 p2149 N84-23872
Circular-scan photochron streak camera for spaceborne laser ranging applications 24 p3906 N84-34741

IMAGE VELOCITY SENSORS
All solid state CCD image sensor
[BMFT-FB-T-84-046] 19 p3113 N84-29778

IMAGERY
NT ACOUSTICAL HOLOGRAPHY
NT AERIAL PHOTOGRAPHY
NT ALL SKY PHOTOGRAPHY
NT ANGIOGRAPHY
NT ASTRONOMICAL PHOTOGRAPHY
NT AUTORADIOGRAPHY
NT BLACK AND WHITE PHOTOGRAPHY
NT CINEMATOGRAPHY
NT CLOUD PHOTOGRAPHY
NT COLOR INFRARED PHOTOGRAPHY
NT COLOR PHOTOGRAPHY
NT ELECTRO-OPTICAL PHOTOGRAPHY
NT ELECTRON PHOTOGRAPHY
NT HOLOGRAPHY
NT INFRARED IMAGERY
NT INFRARED PHOTOGRAPHY
NT KINOFORM
NT MICROWAVE HOLOGRAPHY
NT MICROWAVE IMAGERY
NT NEUTRON RADIOGRAPHY
NT PHOTOMICROGRAPHY
NT PHOTORECONNAISSANCE
NT RADAR IMAGERY
NT RADAR PHOTOGRAPHY
NT RADIOGRAPHY
NT REPRODUCTION (COPYING)
NT ROCKET-BORNE PHOTOGRAPHY
NT SATELLITE-BORNE PHOTOGRAPHY
NT SCHLIEREN PHOTOGRAPHY
NT SHADOWGRAPH PHOTOGRAPHY
NT SPACEBORNE PHOTOGRAPHY
NT SPECTROHELIOGRAPHS
NT SPECTROPHOTOGRAPHY
NT STEREOPHOTOGRAPHY
NT STEREOSCOPY
NT TOMOGRAPHY
NT ULTRAVIOLET PHOTOMETRY
NT WHITE LIGHT HOLOGRAPHY
NT X RAY IMAGERY
Evaluation of Fourier descriptors for target recognition in digital imagery
[AD-A130182] 01 p0129 N84-10844
Numerical problems for the implantation of an INPE atmospheric correction system for LANDSAT images
[INPE-2601-PRE/361] 05 p0721 N84-14727
Navy tactical applications guide. Operational environmental satellites. Polar-orbiting satellites geostationary satellites, spacecraft, sensors, imagery
[AD-A135466] 08 p1113 N84-17240
Satellite image atlas of glaciers: The Polar regions 14 p2161 N84-23940
The use of satellite technology in the search for meteorites in Antarctica aut 01Meunier, Tony K. 14 p2163 N84-23955
Glaciological and geological studies of Antarctica with satellite remote sensing technology 14 p2163 N84-23956
Correlation calculation in stereoscopic image pairs for the automatic acquisition of digital land models, orthopictures and height line planes
[SER-C283] 16 p2505 N84-26079
High resolution bone mineral densitometry with a gamma camera
[NASA-TM-85386] 18 p2899 N84-28391
A device-dependent interface for interactive image display
[NASA-TM-86136] 21 p3461 N84-31949
Real-time CGSI (Computer Generated Synthesized Imagery)-single pipeline processor
[AD-P003480] 21 p3512 N84-32247
Degrees of adjacency or surroundedness
[AD-A143528] 22 p3646 N84-33118
Geocoded data structures and their applications to Earth science investigations
[NASA-TM-86113] 24 p3968 N84-35127

IMAGES
NT AFTERIMAGES
NT RETINAL IMAGES
Representation in memory
[AD-A130662] 01 p0117 N84-10757
Real time optical interferometric image addition and subtraction by wave polarization
[AD-A134125] 05 p0746 N84-14902
Quality metrics of digitally derived imagery and their relation to interpreter performance: 8
[AD-A137726] 11 p1660 N84-20830
An experimental video disc for map and image display
[AD-A140215] 16 p2510 N84-26110
MITS II (Microfiche Image Transmission System) investigations and design alternatives
[AD-A141040] 18 p2945 N84-28673
High image quality sub 100 picosecond gated framing camera development
[DE84-008326] 19 p3028 N84-29203
Analysis of interactive image cleansing via RASTER-processing techniques
[AD-A141772] 19 p3078 N84-29527
Morphological skeleton representation and coding of binary images
[AD-A142250] 19 p3079 N84-29536
A maximum-likelihood approach to image segmentation by texture
[AD-A142323] 19 p3090 N84-29619
Smoothed local symmetries and their implementation
[AD-A142489] 20 p3279 N84-30811
Intelligent optical design program
[DE84-010071] 20 p3279 N84-30813
Theoretical design and analysis of the layered synthetic microstructure optic for the dual path X-ray telescope
[NASA-CR-171133] 21 p3498 N84-32168
A laser image generation system for helicopter Nap-Of-the-Earth (NOE) flight training
[AD-P003481] 21 p3512 N84-32248
Image identification by method of integral fluctuations 22 p3568 N84-32601
Point response functions for unfilled optical arrays
[AD-A143384] 22 p3657 N84-33183

IMAGING RADAR
U SYNTHETIC APERTURE RADAR

IMAGING TECHNIQUES
NT IMAGE ENHANCEMENT
NT RADAR IMAGERY
Development and construction of an apparatus based on the principle of multidimensional nuclear magnetic resonance for the formation of images of organs and parts of the body
[BMFT-FB-T-83-102] 02 p0266 N84-11752
Real-time 3-D X-ray and gamma-ray viewer
[NASA-CASE-GSC-12640-1] 02 p0293 N84-11920
Variations in task and the ideal observer
[DE83-015394] 03 p0416 N84-12723
Representations for reasoning about change
[AD-A131649] 03 p0424 N84-12772
Survey of flash X-ray techniques and applications
[DE83-017234] 03 p0442 N84-12904
Interactive surface visualization using raster graphics
[AD-A132548] 04 p0579 N84-13819
The development of an imaging gas scintillation proportional counter for use in X-ray astronomy 04 p0618 N84-14079
Assessment of ultrasonic B-scan imaging for detection and quantification of atherosclerotic lesions in human carotid and iliofemoral arteries and in arteries of animals
[PB83-261123] 05 p0714 N84-14678
Voyager observations of Saturn's rings. 1: The eccentric rings at 1.29, 1.45, 1.95 and 227 Rs 06 p0937 N84-16087
Image processing for low resolution target finders
[FOA-C-30297-E1,E3] 07 p0962 N84-16238
Spaceborne Imaging Radar Symposium
[NASA-CR-173186] 07 p0967 N84-16390
Geologic application of spaceborne radars 07 p0967 N84-16391
Substance geology of the western desert in Egypt and Sudan revealed by Shuttle Imaging Radar (SIR-A) 07 p0967 N84-16392
Spaceborne SAR sensor architecture 07 p0967 N84-16394
SIR-A aids regional geology: Comparisons of SIR-A imagery with SLAR and LANDSAT over Guyana, Venezuela, Nicararagua and Mali 07 p0968 N84-16401
Presentation of a new adaptive intraframe prediction procedure — television signals
[IND-FB-112] 07 p0994 N84-16448
The development and test of multi-anode microchannel array detector systems. 2: Soft X-ray detectors
[NASA-CR-173245] 07 p0996 N84-16457
A novel algorithm for sea surface height estimation using complex SAR data 07 p1060 N84-16873
Time-resolved beam-profile measurements on the Experimental Test Accelerator (ETA)
[DE84-002453] 07 p1072 N84-16969
Image analysis with use of range information
[FOA-C-30335-E1] 08 p1222 N84-17979
Acoustic imaging of vapor bubbles through optically non-transparent media
[DE84-003961] 08 p1228 N84-18022
Time-varying speckle phenomena in astronomical imaging and in laser scattering 08 p1242 N84-18118
A laboratory investigation of the reflective properties of simulated, optically thick clouds
[NASA-CR-175158] 10 p1578 N84-20336
CORE graphics users manual, revision 1
[DE84-004235] 11 p1708 N84-21136
L-Division streak camera
[DE84-007780] 14 p2149 N84-23872
A comparison of numerical results of Arctic Sea ice modeling with satellite images 14 p2165 N84-23969
Utilization of digital LANDSAT imagery for the study of granitoid bodies in Rondonia: Case example of the Pedra Branca massif
[E84-10120] 14 p2167 N84-23979
Fingerprint theorems for zero-crossings
[AD-A139181] 14 p2212 N84-24280
Advances in transmission X-ray optics
[DE84-007235] 14 p2225 N84-24354
Exact image theory for the Sommerfeld half-space problem with a vertical electric di-pole
[REPT-S-144] 15 p2320 N84-24926
Multispectral linear array multiband selection device
[NASA-CASE-GSC-12911-1] 15 p2335 N84-25016
A new objective method of evaluating image sharpness
[NHK-SERIAL-296] 15 p2407 N84-25449
Optical scanner
[NASA-CASE-GSC-12897-1] 15 p2407 N84-25450
Ultrasound visualization of cardiovascular systems 15 p2430 N84-25597
Imaging by active laser methods
[ESA-TT-804] 16 p2497 N84-26022
Seminar on mathematical models of geodetic/photogrammetric point determination with regard to outliers and systematic errors
[SER-A-98] 16 p2504 N84-26069
Mathematical models of photogrammetric point determination 16 p2504 N84-26070
Several aspects of the sequential processing of photogrammetric bundle blocks 16 p2505 N84-26077
Analysis of the quality of image data acquired by the LANDSAT-4 Thematic Mapper and Multispectral Scanners
[E84-10137] 16 p2506 N84-26085

Comparative assessment of LANDSAT-D MSS and TM data quality for mapping applications in the Southeast
[E84-10138] 16 p2506 N84-26086
Evaluation of solar angle variation over digital processing of LANDSAT imagery — Brazil
[E84-10140] 16 p2507 N84-26088
The use of an image registration technique in the urban growth monitoring
[E84-10147] 16 p2508 N84-26095
Method of flicker suppression in television image
17 p2632 N84-26838
Thermal wave imaging for non-destructive evaluation of subsurface cracks in opaque materials
17 p2676 N84-27046
Theory and measure of certain image norms in SAR
17 p2713 N84-27274
The dual-frequency scatterometer reexamined
17 p2714 N84-27280
An improved dual-frequency technique for the remote sensing of ocean currents and wave spectra
17 p2714 N84-27281
Characteristics of the MSFC, PDS microdensitometer
18 p2840 N84-28026
Venera-15, -16 radar imagery of Venus
19 p2974 N84-28655
Improved charge injection device and a focal plane interface electronics board for stellar tracking
[NASA-CR-171066] 19 p3012 N84-29092
Optical and electronic methods for weld arc viewing
[DE84-009731] 19 p3032 N84-29233
Morphological skeleton representation and coding of binary images
[AD-A142250] 19 p3079 N84-29536
All solid state CCD image sensor
[BMFT-FB-T-84-046] 19 p3113 N84-29778
Selection of elements in process schemes on Cathode Ray Tube (CRT). A comparative study between four types of trackballs
[IZF-1984-4] 20 p3182 N84-30213
An overview of LANDSAT-4 and the Thematic Mapper
20 p3206 N84-30364
LANDSAT-4 Science Investigations Summary, including December 1983 Workshop results, volume 2
[E84-10167] 20 p3208 N84-30380
LANDSAT-4 Thematic Mapper calibration and atmospheric correction 20 p3209 N84-30384
Calibration of TM data from ground-based measurements 20 p3209 N84-30385
Intraband radiometric performance of the LANDSAT-4 Thematic Mapper 20 p3209 N84-30389
Seeker systems simulation, present capability and future technology 21 p3350 N84-31254
Activities of the Remote Sensing Information Sciences Research Group
[E84-10177] 21 p3427 N84-31739
Knowledge-based expert systems for crop identification 21 p3428 N84-31744
The potential of AI techniques for remote sensing
21 p3428 N84-31748
The use of infrared imagery in the study of fault zones
[INPE-3143-PRE/529] 21 p3443 N84-31845
Introduction to Meteorological Satellite Center of Japan Meteorological Agency 21 p3446 N84-31864
Quantitative assessment of role of spatial frequencies of images in visual recognition of numbers
21 p3455 N84-31928
Theory of acoustic speckle 21 p3490 N84-32114
Image identification by method of integral fluctuations
22 p3566 N84-32601
Computer vision for real-time orbital operations. Center directors discretionary fund
[NASA-TM-86457] 22 p3640 N84-33076
Point response functions for unfilled optical arrays
[AD-A143384] 22 p3657 N84-33183
Conceptual design of a monitoring system for the Charters of Freedom
[NASA-CR-173909] 22 p3673 N84-33285
Cognitive information processing
22 p3684 N84-33360
Simulation of the reaction of optical systems in the manufacturing process
[BMFT-FB-T-84-128] 23 p3726 N84-33622
Longwall shearer tracking system
[NASA-CASE-MFS-25717-1] 23 p3749 N84-33768
The X, and L-band radar backscatterer analysis of agricultural crops in West Germany
23 p3767 N84-33879
Evaluation of radar stereo viewability by means of a simulation technique 23 p3779 N84-33959
Visible-light imaging MHD studies of the edge plasma in the JIPP-T-IIU Tokamak
[IPPJ-683] 23 p3827 N84-34272
Stepped frequency radar target imaging
[AD-D011187] 24 p3893 N84-34652
Multi-sensor surveillance 24 p3914 N84-34780
Two approaches to the instrumental estimation of detectability 24 p3915 N84-34789
Search for solar signals in GOES imagery and cloud climatology analysis 24 p3931 N84-34881
Development of the Centralized Storm Information System (CSIS) for use in severe weather prediction
24 p3932 N84-34890
A study of tropical cyclone intensity from satellite imagery 24 p3956 N84-35048
An automated technique for determining cloud velocity from GMS data. 1: The design and construction of a scanning converter 24 p3956 N84-35049
Preliminary study of LANDSAT imageries of Taiwan and its surroundings 24 p3956 N84-35050

IMIDES
Polyimides for use in integrated circuits
[DE83-016769] 02 p0201 N84-11310
Process for preparing phthalocyanine polymers
[NASA-CASE-ARC-11511-1] 07 p0966 N84-16259
Polyphenylene ethers with imide linking groups
[NASA-CASE-LAR-12980-1] 13 p1962 N84-22749
Chemistry of processible acetylene-terminated imides
[AD-A139417] 14 p2122 N84-23720
Synthesis and investigation of polyimidobenzimidazoles
[AD-A140184] 16 p2471 N84-25838

IMINES
Synthetic and mechanistic studies in fluorine chemistry. New developments in organonitrogen fluorine chemistry
[AD-A132844] 05 p0650 N84-14274
Innovative concepts for photovoltaic applications
[DE84-005247] 11 p1674 N84-20923

IMMERSION
U SUBMERGING

IMMISCIBILITY
U SOLUBILITY

IMMITTANCE
U ELECTRICAL IMPEDANCE

IMMOBILIZATION
Immobilization of biomolecules on semiconductor surfaces
[FOA-C-40178-C2(B2,A3)] 06 p0831 N84-15408
Appropriateness of the small-cage-reared rat as a model for the study of altered-activity effects
09 p1354 N84-18851
Dynamics of red blood cell changes in rats during acute immobilization 20 p3254 N84-30651
Bone changes in acutely immobilized patients: Results and perspectives 23 p3807 N84-34140
Morphometric and biophysical study of bone tissue in immobilization-induced osteoporosis in the growing rat
23 p3809 N84-34152

IMMUNITY
The effect of smoking on the non-specific resistance of the organism of seamen at sea
08 p1199 N84-17816
Changes in the T and B systems of immunity in seamen during a long cruise 08 p1199 N84-17819
Effects of long-term low-level radiofrequency radiation exposure on rats. Volume 5: Evaluation of the immune system's response
[AD-A136535] 14 p2184 N84-24087
Lack of an effect of corpuscular vaccine against I phase Q-fever on persistence and reactivation of Coxiella burnetii infection in mouse and guinea pigs tissue
17 p2741 N84-27402
Clinical-immunological spectrum of Leishmaniases
17 p2741 N84-27404
Obtaining yeast vector marked by mutation of multiple antibiotic resistance 23 p3806 N84-34133

IMMUNOASSAY
Labeled cells as research, diagnostic and therapeutic tools 15 p2429 N84-25589

IMMUNOLOGY
Proceedings of the 13th Conference on Environmental Toxicology
[AD-A134150] 07 p1027 N84-16657
Change in immunobiological reactivity under the effect of combined exposure to microwaves, infrasound and gamma radiation 07 p1043 N84-16764
Military Medical Journal, no. 11, November 1983
[L-2539] 11 p1694 N84-21050
Some immunological mechanisms of adaptation of seamen to conditions of low latitude sailing
11 p1694 N84-21052
Research briefings for the Office of Science and Technology Policy, the National Science Foundation and selected federal departments and agencies, 1983
[PB84-161322] 14 p2124 N84-23732
USSR report. Life sciences: Biomedical and behavioral sciences
[JPRS-UBB-84-007] 14 p2250 N84-24515
Genetic control and phenotypic correction of cellular immune response to H-antigen of Salmonella typhimurium 17 p2740 N84-27400
Modelling of multi-signal immobilized immunogens
17 p2741 N84-27401
Lack of an effect of corpuscular vaccine against I phase Q-fever on persistence and reactivation of Coxiella burnetii infection in mouse and guinea pigs tissue
17 p2741 N84-27402
Use of radial hemolysis method in gel for detection of antibodies to Bunya virus Lednice (Turlock virus group)
17 p2741 N84-27403
Clinical-immunological spectrum of Leishmaniases
17 p2741 N84-27404
Effect of decimeter waves on physical-chemical state of membranes, thymocyte chromatin and immunological reactivity of an organism 17 p2742 N84-27411
Hierarchial command, control and coupled bilinear systems
[AD-A142401] 20 p3280 N84-30823
Immunologic effects of electromagnetic fields (1981 - 1983)
[PB84-190602] 22 p3631 N84-33008

IMPACT
NT ECONOMIC IMPACT
NT ELECTRON IMPACT
NT HYPERVELOCITY IMPACT
NT ION IMPACT
NT POINT IMPACT
Impact and vibration testing of a modified UH-1 crew seat
[AD-A130279] 01 p0117 N84-10760
The flexural behavior of PACSAT (passive communication satellite) in orbit
[AD-A131406] 02 p0184 N84-11195
Particle impact erosion. Volume 4. User's manual erosion prediction procedure for rocket nozzle expansion region
[AD-A131008] 02 p0186 N84-11209
Experimental investigation of controlling vibrations using multi-unit impact dampers 10 p1514 N84-19909
Bending of beams subjected to transverse impacts
[AD-A137840] 11 p1668 N84-20884
A numerical study of shock initiation of composition-b by high-speed impact of small steel projectiles
[AD-A139629] 15 p2303 N84-24821
A triangulation technique for obtaining deflections of aircraft transparencies during bird impact testing
[AD-P003220] 17 p2595 N84-26633

IMPACT ACCELERATION
Effects of impact acceleration on somatosensory evoked potentials
[AD-A130280] 01 p0113 N84-10734
Effects of head impact acceleration on human performance: Overview and preliminary battery identification
[AD-A130286] 01 p0116 N84-10754

IMPACT DAMAGE
NT METEORITIC DAMAGE
The effect of damage on the tensile and compressive performance of carbon fibre laminates
01 p0034 N84-10213
Behavior of idealized discontinuities and impact damages in CFRP under fatigue loading
01 p0034 N84-10214
Staged collision and damage data report for accident reconstruction of fourteen (14) test vehicles (1960 - 1982 model year), volume 1
[PB83-226502] 01 p0062 N84-10598
Particle impact erosion. Volume 3. User's manual chamber flowfield code (CFC) and Charring Material Ablation-Erosion (CMAE) code
[AD-A131007] 02 p0186 N84-11208
Ballistic impact on carbon fiber reinforced epoxy composites
[FOA-C-20497-F9] 02 p0189 N84-11227
Erosion and transport of eolian materials on Mars
[NASA-CR-174569] 02 p0308 N84-12019
Vibration response of geometrically nonlinear elastic beams to pulse and impact loading
[NASA-CR-174495] 03 p0388 N84-12527
Impact cratering and spall failure at gabbro
[NASA-CR-174618] 04 p0562 N84-13704
Particulate erosion mechanisms
[NASA-TM-83551] 05 p0652 N84-14289
Embedded gage impact study
[NASA-CR-172227] 08 p1161 N84-17558
Liquid impact erosion mechanisms in transparent materials
[AD-A135891] 09 p1287 N84-18405
Ball-on-block impact-spalling wear test and results on several iron alloys
[PB84-115833] 09 p1319 N84-18615
Ice impact testing of space shuttle thermal protection system materials 10 p1509 N84-19880
Effect of impact damage and open holes on the compression strength of tough resin/high strain fiber laminates — graphite-epoxy composites
[NASA-TM-85756] 11 p1627 N84-20650

Geologic studies of outer solar system satellites: Iapetus and Europa 13 p2075 N84-23448
Recent comet impacts on the moon: The evidence from spectral reflectance studies 13 p2076 N84-23453
Martian crater size distributions and terrain age 13 p2077 N84-23462
Impact of Upheaval Dome, Utah 13 p2078 N84-23465
Space debris impact experiment (S0001) 15 p2277 N84-24672
Impact and fatigue of graphite/epoxy laminates 15 p2310 N84-24862
Comparison of toughened composite laminates using NASA standard damage tolerance tests 20 p3145 N84-29972
Evaluation of a vibration technique for detection of barely-visible impact-damage in composites [AD-A142607] 21 p3357 N84-31293
Large deflections of circular isotropic membranes subjected to arbitrary axisymmetric loading [NASA-TM-86271] 21 p3419 N84-31686
Curved cap corrugated sheet [NASA-CASE-LAR-12884-1] 23 p3700 N84-33450

IMPACT DECELERATION
U DECELERATION
U IMPACT ACCELERATION

IMPACT FUSION
Research and development of a plasma jet mass accelerator as a driver for impact fusion [DE84-012940] 22 p3659 N84-33198

IMPACT LOADS
Dynamic pulse buckling, theory and experiment. Handbook [AD-A130910] 01 p0095 N84-10621
Water entry impact shock on flat faced cylindrical missiles [AD-A131937] 03 p0371 N84-12419
Vertical drop test of a transport fuselage center section including the wheel wells [NASA-TM-85706] 03 p0388 N84-12531
Alternative shock characterizations for consistent shock-test specification [DE84-000482] 04 p0549 N84-13619
Dynamic consolidation of ceramic powders: Practicalities, problems, and prospects [DE84-003744] 08 p1138 N84-17404
The usefulness of impact dampers for space applications [AD-A135695] 09 p1332 N84-18697
Fracture behavior under impact [AD-A136058] 09 p1333 N84-18702
Fracture behavior under impact [AD-A136057] 09 p1333 N84-18703
Dynamics of a simple system subjected to random impact 10 p1511 N84-19889
Approximate numerical predictions of impact-induced structural responses 10 p1511 N84-19890
A method to compute the contact force of a body impacting a ring-stiffened cylindrical shell using a lumped parameter finite-difference model [AD-A139723] 15 p2350 N84-25109
Water impact test of aft skirt end ring, and mid ring segments of the Space Shuttle Solid Rocket Booster [NASA-CR-171027] 16 p2457 N84-25752
A plate impact experiment for studying crack initiation at loading rates K(I) approximately 10(8) MPa m/s [AD-P003103] 16 p2466 N84-25808
Validation of the MAGNA (Materially and Geometrically Nonlinear Analysis) computer program for nonlinear finite element analysis of aircraft transparency bird impact [AD-P003229] 17 p2596 N84-26642
MAGNA (Materially and Geometrically Nonlinear Analysis) computer simulation of bird impact on the F-15 aircraft canopy [AD-P003230] 17 p2597 N84-26643
Parametric studies of the T-38 student windshield using the finite element of code MAGNA (Materially and Geometrically Nonlinear Analysis) [AD-P003232] 17 p2597 N84-26645
Current problems and progress in transparency impact analysis [AD-P003233] 17 p2597 N84-26646
Theoretical evaluation of the structural performance of Swedish fighter aircraft windshields subjected to bird impact [AD-P003235] 17 p2597 N84-26648
Delamination growth analysis in quasi-isotropic laminates under loads simulating low-velocity impact [NASA-TM-85819] 18 p2809 N84-27833
SRB/FWC water impact: Flexible body loads test [NASA-CR-173786] 19 p3021 N84-29156
Fracture initiation in glass-reinforced plastics under impact compression [OUEL-1516/84] 19 p3037 N84-29265
Shock vaporization and the accretion of the icy satellites of Jupiter and Saturn [NASA-CR-173767] 19 p3122 N84-29843
The importance of impact pressure in the development of the process of formation of bonds between metals in the solid phase [BLL-M-35656-(5828.4)] 22 p3550 N84-32473

IMPACT PREDICTION
Particle impact erosion. Volume 4. User's manual erosion prediction procedure for rocket nozzle expansion region [AD-A131008] 02 p0186 N84-11209

IMPACT PRESSURES
U IMPACT LOADS

IMPACT RESISTANCE
Army helicopter crashworthiness 06 p0777 N84-15090
Qualities of SEP ceramic-ceramic Cerasep composites 13 p2038 N84-23225
Impact resistance of fiber composites: Energy absorbing mechanisms and environmental effects [NASA-TM-83594] 15 p2284 N84-24712
Degradation of the bird impact resistance of polycarbonate [AD-P003193] 17 p2591 N84-26606
Service-life induced failure of bird impact resistant windshields [AD-P003195] 17 p2591 N84-26608
Comparison of bullet resistance of new and aged polycarbonate [AD-P003196] 17 p2592 N84-26611
Current problems and progress in transparency impact analysis [AD-P003233] 17 p2597 N84-26646
Simplified composite micromechanics equations for strength, fracture toughness and environmental effects [NASA-TM-83696] 18 p2809 N84-27832

IMPACT SENSITIVITY
U IMPACT RESISTANCE

IMPACT STRENGTH
Effect of heat treatment on the impact properties of a 12Cr-1Mo-V-W steel [DE84-003440] 07 p0976 N84-16324
Effect of specimen size and nickel content on the impact properties of 12 Cr-1 MoVW ferritic steel [DE84-003270] 08 p1134 N84-17377
Hygrothermal effects in continuous fibre reinforced composites. Part 3: Mechanical properties 1 - static tests [AD-A135767] 09 p1276 N84-18332
Fracture behavior under impact [AD-A136056] 09 p1333 N84-18702
Fracture behavior under impact [AD-A136057] 09 p1333 N84-18703
Superplastic bonding and ultrahigh carbon steel laminated composites [AD-A137807] 11 p1627 N84-20651
Development of an impact resistant test method for polycarbonate [AD-A139082] 13 p2002 N84-22968
Effect of initial stresses on the impact behavior of graphite-epoxy laminates 15 p2310 N84-24859
Low velocity, transverse normal impact of a clamped plate 15 p2310 N84-24860
The effect of matrix properties and fiber properties on impact failure mechanics 15 p2310 N84-24863
Workshop on Dynamic Fracture held at Pasadena, California on 17-18 February 1983 [AD-A140194] 16 p2466 N84-25806
Effects of surface flaws on impact resistance of uncoated polycarbonate [AD-A141364] 19 p2998 N84-28998
An approach for estimating the impact of carbon-reinforced plastic 24 p3868 N84-34515

IMPACT TESTING MACHINES
A survey of biodynamic test devices and methods [AD-A142467] 20 p3133 N84-29894
Impacting device for testing insulation [NASA-CASE-MFS-25862-2] 23 p3756 N84-33807

IMPACT TESTS
NT CHARPY IMPACT TEST
Test Report for MSFC Test No. 83-2: Pressure scaled water impact test of a 12.5 inch diameter model of the Space Shuttle solid rocket booster filament wound case and external TVC PCD [NASA-CR-170901] 01 p0029 N84-10181
Three-dimensional computer modeling of a shock-recovery experiment [DE83-015915] 02 p0220 N84-11441
Characterization of conservatism in mechanical shock testing of structures [DE83-013524] 02 p0232 N84-11521
Simulation of cerebrocranial trauma for evaluation and development of gear to protect pilots against impacts 02 p0259 N84-11695
Aircraft transparency testing methodology and evaluation criteria. Part 2: Methodology development for improved durability [AD-A131928] 03 p0331 N84-12157
Aircraft transparency testing methodology and evaluation criteria. Part 1: Test methods and information analysis [AD-A131927] 03 p0331 N84-12158
Alternate T-38 transparency development. Part 4: Parametric studies [AD-A131904] 03 p0331 N84-12159
Flightline thermal environment testing of F-111 transparencies [AD-A131642] 03 p0332 N84-12163
A pressure-shear experiment for studying the dynamic plastic responses of metals at shear strain rates of 10 to the 5th power s(-1) 03 p0387 N84-12519
Testing of epoxy-phenolic coating for lining carbon steel pipe [DE84-000073] 04 p0507 N84-13322
Investigations on the reproducibility of the results of drop weight tests by the method of W. S. Pellini [BLL-DRIC-T-6970-(3623.66)] 06 p0846 N84-15517
Computer simulation of two-dimensional impact tests on propellant [DE84-002460] 07 p0961 N84-16356
Time resolved measurement and analysis of the response of confined explosives to heat, impact and penetration [DE84-002781] 07 p0961 N84-16358
High strain rate characterization of materials [AD-A134342] 07 p1016 N84-16593
Impact experiments in viscous fluid media [NASA-CR-173196] 07 p1040 N84-16745
An experimental and numerical investigation of pressure-shear waves in 6061-T6 aluminum and alpha-titanium 08 p1129 N84-17345
Impact response of an energy absorbing earcup [AD-A134828] 08 p1205 N84-17860
Turbine blade testing methods [NASA-CR-170962] 09 p1256 N84-18201
Effects of variations in heat treatment on the mechanical properties and microstructure of ASTM A710 Grade A Class 3 steel [AD-A136328] 09 p1282 N84-18371
Metallurgical and mechanical tests of materials [AD-A136347] 09 p1327 N84-18666
Fracture behavior under impact [AD-A136056] 09 p1333 N84-18702
Fracture behavior under impact [AD-A136057] 09 p1333 N84-18703
Impact loading in filamentary structural composites 10 p1506 N84-19857
Development of an impact resistant test method for polycarbonate [AD-A139082] 13 p2002 N84-22968
Effects of a negative G strap on restraint dynamics and human impact response [AD-A138642] 13 p2024 N84-23121
Pretest plan for a quarter scale AFT segment of the SRB filament wound case in the NSWC hydroballistics facility — space shuttle boosters [NASA-CR-171028] 15 p2281 N84-24699
Tensile impact testing of fibre-reinforced composites 15 p2316 N84-24901
Water impact test of aft skirt end ring, and mid ring segments of the Space Shuttle Solid Rocket Booster [NASA-CR-171027] 16 p2457 N84-25752
New aircraft windshield applications using ion exchange glass [AD-P003187] 17 p2590 N84-26600
T-38 student windshield birdproofing efforts utilizing metal and composite materials for aft arch reinforcement [AD-P003189] 17 p2590 N84-26602
Investigations concerning improvements of the SAAB 37 windshield birdstrike resistance [AD-P003217] 17 p2595 N84-26630
SRB/FWC water impact: Flexible body loads test [NASA-CR-173786] 19 p3021 N84-29156
Development of a high-pressure quasi-isentropic plane wave generating capability [DE84-011619] 20 p3203 N84-30348
Characterization of common steels. Report of partial test Number M6-645900, Number 4 21 p3369 N84-31376
Textile ballistic performance (data base) [AD-A143249] 22 p3560 N84-32541
Impacting device for testing insulation [NASA-CASE-MFS-25862-2] 23 p3756 N84-33807
Structure and properties of amorphous powder material after explosive loading 24 p3870 N84-34526

IMPACT TOLERANCES
Concepts for improving the damage tolerance of composite compression panels — aircraft structures [NASA-TM-85748] 09 p1329 N84-18678

Improved impact tolerant material
[NASA-CASE-LAR-12687-1] 11 p1627 N84-20649
Effect of impact damage and open holes on the compression strength of tough resin/high strain fiber laminates — graphite-epoxy composites
[NASA-TM-85756] 11 p1627 N84-20650
The development of a bidirectional multi-speed impact model of the adult human thorax
16 p2535 N84-26273

IMPAIRMENT
Statistical review of alcohol-involved aviation accidents
[NTSB-SS-84-03] 16 p2445 N84-25681

IMPATT DIODES
U AVALANCHE DIODES

IMPEDANCE
NT ACOUSTIC IMPEDANCE
NT CONTACT RESISTANCE
NT ELECTRICAL IMPEDANCE
NT ELECTRICAL RESISTANCE
NT MECHANICAL IMPEDANCE
NT REACTANCE
Physical modeling of EM propagation over nonhomogeneous terrain 03 p0364 N84-12370
Decoupling ion efficiency from impedance in pulsed power diodes
[DE83-018114] 04 p0528 N84-13470
Theoretical modeling of the plasma-erosion opening switch for inductive-storage applications
[DE84-001843] 04 p0529 N84-13483
Microwave dynamics of quasiparticles and critical fields in superconducting films 05 p0756 N84-14961
Beam current limitations due to instabilities in modified and conventional betatrons
[AD-A133337] 06 p0915 N84-15947
Numerical solutions to ill-posed and well-posed impedance boundary condition integral equations
[AD-A137353] 10 p1479 N84-19664
Complex impedance of Ca/CaCrO4/Fe thermal batteries
[DE84-005507] 11 p1647 N84-20771
Microstructure and microanalysis in relation to the grain boundary conductivity effect in doped ceria
11 p1741 N84-21358
AC measurements on fuel cells and fuel cell components 11 p1741 N84-21362
Low noise tuned amplifier
[NASA-CASE-GSC-12567-1] 13 p1985 N84-22887
Input filter compensation for switching regulators
[NASA-CR-173557] 15 p2327 N84-24975
The multistate reflectometer
[AD-A139318] 15 p2407 N84-25448
The exact surface impedance approach to problems of diffraction in open waveguides 16 p2478 N84-25888
High current induction accelerators
[AD-A142303] 19 p3102 N84-29703
Beam cavity coupling impedance
[DE84-014064] 22 p3578 N84-32662
Experimental investigation of certain beam transport issues in a pulsed transmission line linear accelerator
[DE84-011191] 22 p3654 N84-33164
Anomalous surface impedance in reentrant ferromagnetic superconductors
[DE84-012634] 22 p3664 N84-33230
Analysis of the solution of the problem of diffraction on an asymmetric impedance half-plane
[ISSN-0208-5658] 23 p3729 N84-33633
Analysis of microstrip line tolerance using the Monte-Carlo method
[INPE-2814-PRE/370] 23 p3740 N84-33705

IMPEDANCE MATCHING
Transmission line transformers; theory and design data
[FOA-C-30327-E] 08 p1152 N84-17503
A high-performance hybrid RF isolation amplifier
22 p3572 N84-32623

IMPEDANCE MEASUREMENT
A program for computer-controlled impedance measurement within the microwave range — antennas
[FOA-C-30330-E3] 08 p1146 N84-17460
Impedance relaxation spectrum analysis of oxidized silver electrodes
[AD-A138380] 12 p1793 N84-21693
Application of electrochemical and mechanical impedance measurements to corrosion induced failures
[AD-A142468] 20 p3153 N84-30021

IMPEDANCE PROBES
NT RADIO FREQUENCY IMPEDANCE PROBES

IMPELLER BLADES
U ROTOR BLADES (TURBOMACHINERY)

IMPELLERS
NT PUMP IMPELLERS
An improved method for the prediction of centrifugal compressor rotational-tone noise
[DE84-013345] 22 p3605 N84-32642

IMPERFECTIONS
U DEFECTS

IMPINGEMENT
NT JET IMPINGEMENT
Solid impingement erosion mechanisms and characterization of erosion resistance of ductile metals
[NASA-TM-83492] 03 p0352 N84-12287
An experimental investigation of the impingement of a planar shock wave on an axisymmetric body at Mach 3
[NASA-TM-84410] 09 p1312 N84-18573
Lubricant jet flow phenomena in spur and helical gears with modified center distances and/or addendums for out-of-mesh conditions
[NASA-TM-83723] 19 p3031 N84-29224

IMPLANTATION
NT ION IMPLANTATION
Prosthetic occlusive device for an internal passageway
[NASA-CASE-MFS-25740-1] 02 p0265 N84-11744
Electrical, luminescence and SIMS (Secondary ion mass spectroscopy) characterization of carbon implanted vapor phase epitaxial gallium arsenide
[AD-A138094] 12 p1913 N84-22464
The development and fabrication of an implantable, multiplexed, semiconductor multielectrode array
[AD-A138788] 13 p1986 N84-22895

IMPLICATION
Implication and equivalence among statistical inference rules
[CTH-MATH-1983-21] 07 p1068 N84-16937

IMPLOSIONS
Development of a focussing-crystal spectrograph for X-rays from laser-fusion targets
[DE83-012802] 01 p0148 N84-10973
Alternate implosion models for the plane parallel diode
[AD-A131275] 02 p0295 N84-11937
Inertial effects in laser-driven ablation
[DE83-016941] 03 p0380 N84-12478
Laser-plasma interaction at 10.6 microns
[DE84-001038] 04 p0541 N84-13560
Non-LTE radiation from an argon seeded microballoon implosion 2
[AD-A133679] 05 p0749 N84-14919
The Z-pinch program at Imperial College
10 p1583 N84-20372
Diagnostics and simulation in G-XII implosion experiments 11 p1735 N84-21316
Plasma physics issues in advanced simulation research
[AD-A139628] 15 p2410 N84-25465
Heating and implosion of spherical targets irradiated by laser 20 p3268 N84-30879

IMPREGNATING
Research, development and demonstration of nickel-iron batteries for electric-vehicle propulsion
[DE83-014270] 02 p0304 N84-11994
The definition of the process of electrochemical impregnation of nickel electrodes
[NASA-TM-77356] 09 p1277 N84-18338
The oil impregnation of phenolic-resin-based materials used in the fabrication of ball-bearing cages
[ESA-PSS-01-712-ISSUE-1] 16 p2472 N84-25846
Liquid crystal polyester-carbon fiber composites
[NASA-CR-172323] 17 p2618 N84-26754
Comparative studies of vapor and liquid-phase impregnation of porous silicon nitride and silicon carbide materials
[DE84-012867] 21 p3359 N84-31309

IMPROVEMENT
Introduction to the airport improvement program
[AD-A144556] 24 p3857 N84-34454

IMPULSE GENERATORS
Second-order adaptive infinite impulse response filter
[DE84-001768] 06 p0831 N84-15406

IMPULSES
Model helicopter rotor high-speed impulsive noise: Measured acoustics and blade pressures
[NASA-TM-85850] 01 p0003 N84-10020
InP:Fe picosecond photoconductors
[DE83-015237] 02 p0215 N84-11410
The detectability of repetitive, periodic impulses
[AD-A132744] 05 p0713 N84-14675
Helicopter impulsive noise: Theoretical and experimental status
[NASA-TM-84390] 09 p1386 N84-19050
Reflected overpressure impulse on a finite structure
[AD-A137259] 11 p1653 N84-20792
Annoyance ratings for impulse and traffic sounds presented in quiet surroundings
[IZF-1983-23] 12 p1900 N84-22373
Annoyance ratings for impulse and traffic sounds at two different background noise levels
[IZF-1983-27] 17 p2725 N84-27345

IMPURITIES
NT PSEUDOPOTENTIALS
The melting of iron containing reduced amounts of non-ferrous metal impurities
[BLL-M-35209-(5826.4)] 01 p0041 N84-10259
Self-pumping impurity control by in-situ metal depoeition
[DE83-014265] 02 p0195 N84-11265
A cluster model for two-dimensional disordered systems
[INPE-2895-PRE/414] 02 p0298 N84-11953
Research on diffusion and complex behavior of elements forming recombination centers in silicon by means of optical and electrical measurement techniques
[BMFT-FB-T-83-117] 02 p0300 N84-11971
Self-pumping impurity by in-situ metal deposition
[DE83-017937] 03 p0355 N84-12306
Narrow-band, near-UV, high-repetition-rate laser-induced fluorescence system for use as an dge diagnostic in fusion machine
[DE84-000586] 04 p0542 N84-13567
Radiation hardening of oxygen-doped niobium by 14-MeV neutrons
[DE84-000103] 04 p0610 N84-14026
Localized magnetization arising from spin-dependent impurity potentials in the Wolff model
[AD-A133652] 05 p0742 N84-14871
Applications of hybrid numerical-simulation methods to magnetic-confinement systems
[DE84-001840] 05 p0750 N84-14922
Effects of neutral beam injection on impurity transport in Tokamaks
[DE84-001857] 05 p0750 N84-14926
Control of impurities in the epitaxial growth of high quality GaAs
[AD-A133187] 06 p0922 N84-15996
Influence of the tramp elements on the properties of steel, metallurgical processes for controlling the contents of tramp elements
[BMFT-FB-T-83-189] 07 p0977 N84-16331
Clustering model in n-doped many-valley semiconductors
[INPE-2911-PRE/424] 07 p1079 N84-17015
Modification of point defects in quartz for device applications
[DE84-002611] 07 p1082 N84-17036
Modification of alloy surface composition by segregation processes as a means of impurity control in fusion devices
[DE84-003645] 08 p1134 N84-17373
Muon spin rotation in solids
[NASA-CR-172789] 08 p1234 N84-18067
Double-injection, deep-impurity switch development
[NASA-CR-168335] 09 p1306 N84-18536
A comparative thermodynamic analysis of impurity incorporation in vapor phase epitaxial InP and GaAs
[AD-A135739] 09 p1395 N84-19113
Research on ferroelectric materials for millimeter wave application
[AD-A137128] 10 p1588 N84-20405
Atomic processes for plasma diagnostics in Tokamaks
11 p1734 N84-21311
Impurity transport in Tokamaks
11 p1734 N84-21312
Numerical analyses for scrape-off plasmas in FER divertor chamber 11 p1734 N84-21313
Atomic hydrogen beam probing with spectroscopic technique 11 p1736 N84-21324
Equation of state for titanium dihydride
[DE84-006698] 12 p1794 N84-21698
Two-dimensional impurity bands at semiconductor hetero-structure interfaces
[INPE-2996-PRE/448] 12 p1912 N84-22456
Deep level impurities in germanium and silicon: Low temperature passivation or removal techniques
[DE84-006772] 13 p2048 N84-23286
Impurity and defect interactions in GaAs
[AD-A139592] 14 p2243 N84-24465
Magnetic impurities in superconductors
[DE84-007871] 14 p2243 N84-24467
Undoped buffer layer development
[AD-A139758] 15 p2413 N84-25484
Crystallization of the glassy phase of grain boundaries in silicon nitride
[NASA-TM-77466] 16 p2560 N84-26421
Development and application of SIMS (Secondary Ion Mass Spectrometry) characterization techniques for the study of impurities and impurity motion in (HgCd)Te and CdTe
[AD-A140712] 17 p2619 N84-26759
Defects at electrode-oxide and electrode-silicon interfaces in VHSI device structures
[AD-A140814] 17 p2663 N84-26990
Models of rapid solidification
18 p2936 N84-28623
Segregation of impurities in directionally solidified silicon 18 p2940 N84-28647

Transport phenomena in improved electrochemical cell design for the production of magnesium
[DE84-010567] 19 p2989 N84-26944
Experimental study of impurity production in the Tokapole II Tokamak
[DE84-009659] 19 p3109 N84-29754
Analysis of impurities forming recombination centers in silicon
[BMFT-FB-T-84-049] 19 p3113 N84-29779
Trace analysis in quartz
[AD-A142425] 20 p3148 N84-29988
Rotation and impurity transport in a Tokamak plasma with directed neutral beam injection
[DE84-008014] 20 p3306 N84-30996
Infrared ellipsometer method for determination of parameters of thin epitaxial structures with buried layer: Specimens with dull inactive surface
21 p3379 N84-31446
Investigation of neutral beam driven impurity flow reversal as an impurity control method in future Tokamaks
[DE84-006855] 21 p3501 N84-32191
Protective plasma envelope
[DE84-013316] 21 p3502 N84-32194
Magnetic impurity scattering in in situ superconductors
[DE84-012835] 21 p3505 N84-32212
Negative ion formation due to hydrogen plasma surface interaction
[DE84-012259] 22 p3659 N84-33192
Impurity and defect characterization in epitaxial GaAs InP and the ternary and quaternary compound semiconductors
[AD-A143551] 22 p3664 N84-33225
Trace elements in superalloys and the implications for recycling 23 p3705 N84-33484
Impurity origin during ICRF heating in JIPP T-IIU Tokamak
[IPPJ-682] 23 p3827 N84-34271
Compound semiconductor characterization
[AD-A143601] 23 p3830 N84-34292
The effects of impurities and additives on the growth of polycrystalline TNT
[MRL-R-916] 24 p3890 N84-34629
Impurity cluster states in disordered 2-dimensional systems: A self-consistent Hartree-Fock-Roothaan model
[INPE-3223-PRE/574] 24 p3966 N84-35115
Impurity states in the presence of an interface
[DE84-701192] 24 p3967 N84-35123

IMS
U INTERNATIONAL MAGNETOSPHERIC STUDY

IN-FLIGHT MONITORING
Experimental methods in flight for the measurement of control characteristics 01 p0014 N84-10091
In-flight load testing of advanced shuttle thermal protection systems
[NASA-TM-86024] 06 p1115 N84-17250
The Holter method in aeronautical medicine
11 p1700 N84-21087
Safety recommendation A-84-7
16 p2443 N84-25674
Intelligent flight data recorder: A contribution to on-condition maintenance and optimization of operation
17 p2585 N84-26568
Engine condition monitoring with aircraft integrated data systems on Lufthansa A310 17 p2585 N84-26571
First experience with ARINC 717 Aircraft Integrated Data Systems (AIDS) on Airbus 310 for maintenance support
17 p2586 N84-26572
Failure Identification Module (FIM) for digital control systems — avionics 17 p2586 N84-26573
Analysing redundant flight path data on two Airbus A-300 aircraft 17 p2586 N84-26577
Performance validation of Sperry Flight Management Systems (FMS) 17 p2587 N84-26580
On-line acquisition and processing of flight mechanical data on board the research aircraft of the Technische Universitaet, Brunswick 17 p2587 N84-26585
Assessing pilot workload in flight
24 p3849 N84-34408
Flight testing and real time data processing for development and integration of weapon systems
24 p3850 N84-34415

INACTIVATION
U DEACTIVATION

INCENTIVE TECHNIQUES
The design of effective reward systems
[AD-A132859] 06 p0934 N84-16067
USSR report: Science and technology policy
[JPRS-UST-84-004] 13 p2064 N84-23387

INCENTIVES
NT CONTRACT INCENTIVES
Revitalization: An organizational program for the individual
[DE83-014949] 03 p0458 N84-13013
The design of effective reward systems
[AD-A132859] 06 p0934 N84-16067
Productivity improvement in a purchase division: Evaluation of a Performance Contingent Reward System (PCRS)
[AD-A133589] 07 p1050 N84-16801
Performance feedback effects under varying conditions of goals, feedback type, and choice
[AD-A136703] 10 p1550 N84-20157
Heap pumps marketing problems and the role played by the financial incentives provided by the law 308/82
[CISE-2149] 16 p2467 N84-25950
Increase of worker autonomy at the industrial work place as shown in three humanization projects in Sweden, in Great Britain and in the USA
[BMFT-FB-HA-83-031] 16 p2564 N84-26453
Effects of expiration of the Federal energy tax credit on the National Photovoltaics Program
[NASA-CR-173900] 22 p3675 N84-33299

INCIDENCE
NT GRAZING INCIDENCE
The effects of solar incidence angle over digital processing of LANDSAT data
[E84-10007] 01 p0099 N84-10641
Ultrasonic reflection from solid halfspaces and from solid plates
[AD-A129886] 01 p0140 N84-10916
An analytical method to calculate the flow field about blunt bodies of revolution at incidence in supersonic free stream flow
[CSIR-NIAST-82/72] 04 p0479 N84-13156
Reflected overpressure impulse on a finite structure
[AD-A137259] 11 p1653 N84-20792
A normal incidence, high resolution X-ray telescope for solar coronal observations
[NASA-CR-173518] 13 p2070 N84-23412
Dependence of the backscattering coefficients of light ions upon angle of incidence
[IPPJ-AM-34] 15 p2409 N84-25459
A probe for direct measurements of flow direction
[DFVLR-FB-83-27] 16 p2486 N84-25948
Differential rectification of SLR-images using map-derived and radar-generated digital elevation models
[AD-A141828] 19 p3006 N84-29054
Axial-conductances angular filter investigation
[AD-A142802] 21 p3386 N84-31487
Ordered incidence geometry and the geometric foundations of convexity theory
[AD-A144286] 24 p3951 N84-35015

INCIDENT RADIATION
Measurement of incidence angle dependence of solar absorptance — spacecraft materials
10 p1447 N84-19452
Optical bistability with two-level atoms
14 p2231 N84-24383
Multistability, self-oscillation and chaos in nonlinear optics 14 p2232 N84-24387
Nonlinear transmission of laser radiation by ZnTe monocrystals at helium temperatures
17 p2636 N84-26863
Global radiation from satellite measurements
[MITT-37] 18 p2867 N84-28200
Preliminary comparison of insolation measurements, forecasts, and estimates from satellite imagery
[DE84-004435] 18 p2883 N84-28293
Focusers of obliquely incident laser radiation
21 p3487 N84-32099

INCINERATION
U INCINERATORS

INCINERATORS
Preliminary operating assessment advanced Heat Recovery incinerator (HRI). Site One: O'Connor Combustor Corporation
[AD-A131254] 01 p0103 N84-10667
Protocol for the collection and analysis of volatile POHCs (Principal Organic Hazardous Constituents) using VOST (Volatile Organic Sampling Train)
[PB84-170042] 15 p2338 N84-25035
Lidar observations of the plumes of incineration ships
23 p3780 N84-33967

INCLINATION
Moments of inclination error distribution computer program
[NASA-CR-165824] 19 p3073 N84-29501

INCLUSIONS
Formation of structure of low-alloy steel inoculated with rare-earth metals and alkaline-earth metals
[BLL-M-35321] 04 p0497 N84-13258
Ultrasonic 3-D reconstruction of inclusions in solids using the inverse Born algorithm
[DE83-016082] 04 p0595 N84-13928
Metallurgical aspects and mechanical properties of weld metal in automatic submerged arc welding
[BLL-RISLEY-TR-4875-(9091.9F)]
09 p1324 N84-18650
Protective oxide films
[DE84-004088] 10 p1481 N84-19543
Detection and performance of defects in aluminum coated steels
[DE84-004175] 10 p1481 N84-19545
The crack-inclusion interaction problem
[NASA-CR-172308] 10 p1516 N84-19926
High-temperature inclusions in the Murchison meteorite 11 p1755 N84-21454
ESR steel deoxidation and slag practice: Influence on inclusion morphology
[MRL-R-915] 12 p1796 N84-21718
Elastic wave scattering from cylindrical cavities and solid inclusions analyzed by the resonance method
[AD-P002971] 14 p2201 N84-24207
Study on the effects of niobium, vanadium, titanium and/or rare Earth metals on the properties and processing of high-tensile, weldable structural steels
[BMFT-FB-T-83-318] 15 p2295 N84-24775
Technical report on sprayable compliant coatings
[PB84-178011] 17 p2627 N84-26810
Evaluation of the effect of non-metallic inclusions in steel electrodes on the frequency of flashbacks in mercury-arc rectifiers
[BLL-ERA-TRANS-3002/23] 17 p2662 N84-26982
The effects of non-metallic inclusions in steel on fatigue properties 20 p3160 N84-30070
X-ray diffraction study of the phase composition of the crystallization medium and inclusions in synthetic diamonds
[CSIR-TRANS-1723] 21 p3504 N84-32203
Solid-phase reaction of dispersed graphitized material with aluminium and nickel
[BLL-M-35633-(5828.4)] 22 p3551 N84-32482
Distribution of micro-heterogeneous deformation in O8Yu steel around inclusions during compression
[BLL-M-35641-(5828.4)] 22 p3553 N84-32498
The nature and origin of refractory inclusions in the Allende meteorite 22 p3678 N84-33318
Ductile aluminide alloys for high temperature applications
[DE84-014317] 23 p3719 N84-33575

INCOHERENCE
Multi-sensor array time-delay estimation with small phase incoherences
[AD-A138867] 13 p2033 N84-23183
White light optical information processing
[AD-A144142] 24 p3963 N84-35096

INCOHERENT SCATTER RADAR
NT EISCAT RADAR SYSTEM (EUROPE)
Speed-dependent collision effects on radar back-scattering from the ionosphere — incoherent scatter radar
[NASA-CR-173077] 03 p0359 N84-12336
Stratosphere and troposphere (S-T) studies at Millstone Hill. Recent results, capabilities and limitations
17 p2691 N84-27137
Capabilities and limitations of the Sondrestrom radar for ST observations 17 p2691 N84-27139

INCOHERENT SCATTERING
Further considerations in models of rough surface scattering
[AD-A130424] 01 p0146 N84-10962
Optical gas temperature measurement in gas turbines
[PNR-90174] 13 p1933 N84-22572
Calm ionospheric dynamo. Part 1: Simulations carried out in 1981
[CRPE-NT-112-PT-1] 13 p2012 N84-23055

INCOMPRESSIBILITY
The Froude number for solitary waves
[AD-A134548] 07 p1002 N84-16498
Conforming finite element methods for incompressible and nearly incompressible continua
[AD-A141117] 19 p3023 N84-29171

INCOMPRESSIBLE BOUNDARY LAYER
Instability and transition in the boundary layer
06 p0846 N84-15516
The numerical solution of incompressible Navier-Stokes equations
[AD-A136158] 09 p1316 N84-18597
Influence of velocity shear on character of flow of incompressible stratified fluid around obstacle
17 p2707 N84-27237

INCOMPRESSIBLE FLOW
NT STOKES FLOW
Numerical procedure for an inviscid stability analysis of an axisymmetric jet
[PB83-224071] 01 p0083 N84-10537
The use of an adaptive grid in a solution of the Navier-Stokes equations for incompressible flow
02 p0173 N84-11139
Numerical methods for free boundary problems and 2 phase flows
[AD-A131374] 02 p0280 N84-11835

Stability of a pair of stationary vortices in the leeward side of a cylinder in a potential flowfield
[AD-A131917] 03 p0320 N84-12095
Computational vortex flow aerodynamics
03 p0324 N84-12117
Simulation of turbulent flows with a point vortex method 03 p0324 N84-12119
Steady and unsteady flow models for airfoils with spoiler 03 p0327 N84-12136
Computation of turbulent flows over backward-facing step
[NASA-TM-85851] 03 p0371 N84-12414
Numerical modeling of turbulent flow in a channel
[NASA-CR-168278] 04 p0485 N84-13189
Finite-element analysis of incompressible laminar and turbulent flow with heat transfer
[DE84-000042] 04 p0536 N84-13523
An application of the finite element method to the solution of low Reynolds number, incompressible flow around a Joukowski aerofoil, with emphasis on automatic generation of grids
[AD-A133008] 05 p0628 N84-14127
A finite element analysis of incompressible laminar and turbulent flow with heat transfer past irregular surfaces
05 p0662 N84-14485
Global pressure relaxation procedure for laminar and turbulent incompressible flows with strong interaction and separation 05 p0663 N84-14490
An assumed deviatoric stress-velocity-pressure mixed finite element method for unsteady convective, incompressible viscous flow 06 p0833 N84-15420
Finite-difference approximations of the Navier-Stokes equations for incompressible flows
06 p0835 N84-15434
Improved turbulence models based on large eddy simulation of homogeneous, incompressible turbulent flows 06 p0845 N84-15514
Instability and transition in the boundary layer
06 p0846 N84-15516
The linear vortex distribution using the alternative approach
[NAST-82/80] 07 p0945 N84-16133
Finite element analysis of incompressible turbulent backstep flow with heat transfer
[DE84-003101] 07 p1003 N84-16502
Finite element method for incompressible laminar boundary layer flows 08 p1096 N84-17126
Stability of the laminar boundary layer in a streamwise corner
[NASA-CR-173282] 08 p1157 N84-17532
A modified lifting line theory for wing-propeller interference
[NASA-CR-173324] 09 p1252 N84-18171
Reattachment of a three-dimensional, incompressible jet to an adjacent axisymmetric inclined surface
[AD-A136288] 09 p1314 N84-18584
Analysis of three-dimensional viscous internal flows
[AD-A135782] 09 p1315 N84-18582
Rotordynamic forces developed by labyrinth seals
[AD-A136217] 09 p1316 N84-18590
Finite difference methods for the incompressible Navier-Stokes equations: A survey
[AD-A136353] 09 p1374 N84-18969
Finite element simulation of viscous incompressible flows
[DE84-004355] 10 p1494 N84-19769
Laminarization effects on the dynamics of a disk levitated by incompressible fluid flow
[DE84-003612] 10 p1494 N84-19770
Accuracy of vortex methods
[DE84-005714] 11 p1654 N84-20796
Numerical solution for a spinning, nutating, fluid-filled cylinder
[DE84-005878] 11 p1654 N84-20799
Stability of planar multifluid plasma equilibria by Arnold's method
[DE84-004332] 11 p1655 N84-20801
Crossed hot-wire data acquisition and reduction system
[NASA-TM-85871] 11 p1656 N84-20807
Development of a complete model of turbulence revisited
[AD-A138145] 12 p1816 N84-21836
Application of a fractional-step method to incompressible Navier-Stokes equation
[NASA-TM-85888] 12 p1893 N84-22328
Richtmyer-Meshkov instabilities in stratified fluids
[DE84-005738] 12 p1911 N84-22449
Calculation of the flow over a stalled airfoil
13 p1925 N84-22531
Computation of viscous flows over airfoils, including separation, with a coupling approach
[NASA-TM-77079] 14 p2101 N84-23607
A rapid method for predicting suction distributions to maintain attached, laminar boundary layers on bodies of revolution
[AD-A139125] 14 p2145 N84-23856
Bubbles rising in a tube and jets falling from a nozzle
[AD-A139266] 14 p2145 N84-23858
Numerical boundary conditions for flow problems
[AD-P002960] 14 p2200 N84-24200
Unsteady laminar boundary-layer calculations on oscillating configurations including backflow. Part 2: Airfoil in high-amplitude pitching motion. Dynamic stall
[NASA-TM-84319-PT-2] 15 p2254 N84-24537
High Reynolds number solutions for incompressible viscous flow using the reduced basis technique
15 p2317 N84-24905
A computational method for viscous incompressible flows
[NASA-TM-85958] 17 p2600 N84-26864
A solution procedure for three-dimensional incompressible Navier-Stokes equation and its application
[NASA-TM-85978] 17 p2600 N84-26866
A numerical study of the 2- and 3-dimensional unsteady Navier-Stokes equations in velocity-vorticity variables using compact difference schemes
[NASA-CR-172353] 17 p2667 N84-27004
The behavior of streamlines near separation point and separation criterion
[AD-A140649] 17 p2668 N84-27010
Influence of velocity shear on character of flow of incompressible stratified fluid around obstacle
17 p2707 N84-27237
Development of a self-adapted error-controlled difference method to solve the three-dimensional laminar incompressible boundary layer equations by numerically given contours determined by points
[REPT-24/83] 19 p3025 N84-29186
Computational fluid mechanics utilizing the variational principle of modeling damping seals
[NASA-CR-171114] 21 p3398 N84-31553
Another look at the use of complex sources for the generation of bodies of revolution in incompressible flow
[CAR-8412] 21 p3398 N84-31555
Numerical solution of viscoplastic flow problems by augmented lagrangians
[AD-A142793] 21 p3400 N84-31566
Another attempt to overcome the bent element blues
[DE84-007785] 21 p3400 N84-31571
Fast solutions to the steady state compressible and incompressible fluid dynamic equations
[NASA-CR-172416] 22 p3530 N84-32349
A finite element implementation of the dual variable method for the Navier-Stokes equations
22 p3592 N84-32746
Representation of potential flow about axisymmetric bodies with discrete singularities
[AD-A143526] 22 p3594 N84-32760
A two-fluid instability
[DE84-012899] 22 p3595 N84-32764
Compendium of US incompressible flow facilities
[AD-A143650] 23 p3696 N84-33424
Description and prediction of transition in two-dimensional, incompressible flow
23 p3748 N84-33758

INCOMPRESSIBLE FLUIDS
TOPAZ: A computer code for modeling heat transfer and fluid flow in arbitrary networks of pipes, flow branches, and vessels
[DE84-006275] 11 p1709 N84-21142
Flow past a flexible membrane
[AD-P002938] 14 p2197 N84-24178
Oscillations of a reservoir with a fluid on the free surface of which a membrane is located
[AD-A142127] 19 p3024 N84-29179
Calculation of the statistical characteristics of surface
[NASA-TM-77462] 20 p3183 N84-30222
Stability of stationary rotation of cylinder filled with stratified viscous incompressible fluid
21 p3479 N84-32054
Local and global existence and behavior for t tends to infinity Navier-Stokes equations
[CTH-MATH-1984-08] 23 p3818 N84-34214

INCONEL (TRADEMARK)
Effect of calcium hydroxide and carbonates on IGA and SCC of Alloy 600
[DE83-902229] 01 p0045 N84-10286
Design and construction of deep tubesheet crevice devices for producing intergranular attack of heat transfer tubing
[DE83-902228] 01 p0045 N84-10287
Radiative properties of advanced spacecraft heat shield materials
[NASA-CR-3740] 02 p0193 N84-11258
Deformation studies in workable superalloys
[AD-A131606] 02 p0194 N84-11260
Galvanic coupling between D6AC steel, 6061-T6 aluminum, Inconel 718 and graphite-epoxy composite material: Corrosion occurrence and prevention
[NASA-TP-2236] 04 p0497 N84-13263
Oxidation of Inconel alloy MA754 at low oxidation potential
[DE83-017191] 04 p0501 N84-13286
Characterization of alloy 600 surfaces after exposure to a caustic environment
[DE83-018297] 04 p0503 N84-13300
Evaluation of a non-catalytic coating for metallic TPS
[NASA-TM-85745] 07 p0974 N84-16312
Initiation and propagation of stress-corrosion cracking of Alloy 600 in high-temperature water — Inconel tubing
[DE84-000623] 07 p0975 N84-16316
Effect of liquid tin-zinc on the drilling parameters of several alloys
[PB84-134782] 10 p1484 N84-19562
Ceramic-to-metal bonding for pressure transducers
[NASA-CR-173500] 13 p1963 N84-22753
Bimetal and multimetal galvanic corrosion prediction using long- and short-term polarization curves
[AD-A139893] 15 p2297 N84-24786
The role of anelastic strain in the cyclic creep behavior of a particle strengthened alloy
17 p2677 N84-27053
Ring ductility of irradiated Inconel 706 and Nimonic PE16
[DE84-010397] 20 p3155 N84-30034
Response of Inconel 617 superalloy to combined ground-based and STS reentry exposure
[NASA-TM-86293] 22 p3554 N84-32505
Effect of surface doping on the oxidation of chromia former alloys
[DE84-013390] 22 p3667 N84-33247

INDENTATION
Ceramic wear in indentation and sliding
[NASA-TM-83585] 10 p1465 N84-19566

INDEPENDENT VARIABLES
NT LATTICE PARAMETERS
Robust estimates of ordered parameters
[AD-A131204] 02 p0282 N84-11848
A measure of the conformity of a parameter set to a trend: The partially ordered case
[AD-A131214] 02 p0285 N84-11866
The effects of naturally-occurring propagation disturbances on discrete focused arrays
[AD-A132645] 05 p0670 N84-14404
An approach to rotation invariant texture classification and some experimental results
[AD-A134197] 07 p1061 N84-16881
The experimental/analytical determination of the real normal mode parameters of a structure with limited accessibility
[DFVLR-FB-83-26] 09 p1334 N84-18711
Design of experiments in simulation
[AD-A137229] 10 p1562 N84-20236
Robust minimum distance estimation of the 3 parameter lognormal distribution
[AD-A138007] 12 p1896 N84-22349
Dependence of hydromagnetic energy spectra on interplanetary parameters
[AD-A138745] 13 p2036 N84-23209
A parallel method for natural texture synthesis
[AD-A139889] 15 p2398 N84-25385
Jackknife and bootstrap inference in regression and a class of representations for the LSE
[AD-A141505] 19 p3093 N84-29641
Lightning simulator circuit parameters and performance for severe-threat, high-action-integral testing
[DE84-009065] 20 p3181 N84-30211
Model cloud relationships
[AD-A142690] 21 p3447 N84-31871
Electroweak interaction parameters
[DE84-012910] 21 p3496 N84-32159

INDEXES
Information Center Complex publications and presentations, 1971-1982
[DE84-010603] 20 p3315 N84-31055

INDEXES (DOCUMENTATION)
KWIC index for numerical linear algebra
[DE83-014889] 01 p0135 N84-10882
Downloading and post-processing of bibliographic information with the TIS (Technology Information System) intelligent gateway computer
[AD-A130800] 01 p0162 N84-11062
Corporate Author Authority List, 1983
[PB83-156034] 02 p0302 N84-11980
CTX: A system for computer-aided indexing — computer aided text retrieval (CTX)
[BMFT-FB-ID-83-006] 02 p0303 N84-11986
Source header list, supplement 1
[AD-A131800] 03 p0459 N84-13024
Permuted medical subject headings, 1984
[PB83-234781] 03 p0460 N84-13027

Medical subject headings, tree structures, 1984
[PB83-223164] 03 p0460 N84-13026
Medical Subject Headings, Annotated Alphabetic List, 1984
[PB83-223156] 03 p0460 N84-13029
Photonuclear data index, 1973-1981, supplement 2 to NBS (National Bureau of Standards) special publication 380
[PB83-251363] 05 p0746 N84-14898
Simulated precipitation reference materials, 4
[PB83-139378] 06 p0883 N84-15742
Medical subject headings, tree annotations, 1984. Technical notes, Medlars indexing instructions
[PB84-120047] 09 p1405 N84-19181
IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study bibliography
[AD-A137327] 10 p1503 N84-19825
Aerospace Medicine and Biology: 1983 cumulative index
[NASA-SP-7011(254)] 11 p1693 N84-21043
Where to find it. Information resource centers, A quick reference booklet
[AD-A133117] 11 p1750 N84-21419
Calendar of selected aeronautical and space meetings
[AGARD-CAL-83/2] 11 p1761 N84-21490
Validated Engineering Data Index, 1983 - 1984
12 p1804 N84-21758
The Shock and Vibration Digest, volume 16, no. 2
[AD-A139098] 12 p1821 N84-21874
Publications of the JPL Solar Thermal Power Systems Project, 1976 to 1983
[NASA-CR-173464] 12 p1842 N84-22011
North American climatic data catalog, part 1
[PB84-150366] 12 p1863 N84-22136
NASA Thesaurus supplement. Part 1: Hierarchical listing
[NASA-SP-7051(SUPPL-1)] 13 p2066 N84-23398
Documentation for the machine-readable version of the SAO-HD-GC-DM cross index version 1983
[NASA-TM-85570] 13 p2071 N84-23418
Documentation for the machine-readable version of the Smithsonian Astrophysical Observatory Star catalogue (SAO) version 1984
[NASA-TM-85574] 13 p2071 N84-23419
Index of air weather service technical publications
[AD-A139133] 14 p2179 N84-24054
Climatic atlas of Texas
[PB84-162608] 14 p2182 N84-24074
AGARD index of publications, 1960-1982
[ISBN-92-835-1462-9] 14 p2248 N84-24502
Index numbers for North and Central America, the Caribbean and U.S. stations in the Pacific: Fifth editions
[PB84-159599] 15 p2372 N84-25231
SIRIUS: Bibliographic search and retrieval system
[INPE-2771-PRE/344] 15 p2417 N84-25512
L Chondrite meteorites: A compilation and preliminary analyses 15 p2427 N84-25576
Cabin safety subject index
[AD-A140409] 16 p2445 N84-25683
ESA preferred parts list
[ESA-PSS-01-603-ISSUE-1] 16 p2475 N84-25869
On the 1983 drought in Northeast Brazil
[INPE-3110-PRE/509] 16 p2528 N84-26229
Guide to available mathematical software
[PB84-171305] 16 p2545 N84-26337
The relationship between exhaustivity and consistency at the optimum indexing level 16 p2565 N84-26462
Catalog of ESA publications in 1983
[ESA-SP-105] 16 p2567 N84-26470
Integrated Record Input System (IRIS) for the DOE/Technical Information Center
[DE84-008494] 18 p2945 N84-26675
Materials sciences programs, fiscal year 1983
[DOE/ER-0143/1] 19 p2983 N84-28905
Bibliography of in-house and contract reports, supplement 12
[AD-A141778] 19 p3041 N84-29298
Index to NASA News Releases and Speeches, 1983
[NASA-TM-85509] 20 p3314 N84-31047
Government acronyms and alphabetic organizational designations used in DTIC (Defense Technical Information Center)
[AD-A142700] 20 p3314 N84-31049
Solar-geophysical data number 473. Part 1: (Prompt reports) data for December 1983, November 1983 and late data
[PB84-180611] 20 p3320 N84-31073
Solar-geophysical data number 473. Part 2: (Comprehensive reports) data for July 1983, March 1981 and miscellanea
[PB84-180629] 20 p3320 N84-31074
Selected bibliography of solar thermal literature. Volume 2: Indexes
[DE84-009363] 21 p3518 N84-32288
Energy Data Base. Serial titles with ISSN listing
[DE84-003876] 21 p3518 N84-32289
Review of existing environmental and natural resource data bases
[DE84-012039] 21 p3519 N84-32292
Publications of the Executive Office of the President, January 20, 1981 - March 31, 1984
[PB84-182328] 21 p3519 N84-32296
Directory of computerized data files, 1984
[PB84-160126] 21 p3520 N84-32303
Aeronautical Engineering: A Continuing Bibliography with Indexes
[NASA-SP-7037(178)] 22 p3529 N84-32343
Physics in Europe: A data file of selected research
[AD-A143426] 22 p3674 N84-33289
Source hierarchy list. Volume 1: A through H
[AD-A143500] 22 p3674 N84-33291
Source hierarchy list. Volume 2: I through Z
[AD-A143501] 22 p3674 N84-33292
Master list and index to NASA directives
[NASA-TM-87362] 23 p3834 N84-34321
Guide to technical documents. Volume 2: January 1983 through December 1983
[AD-A143596] 23 p3834 N84-34322
Source header list, supplement 2
[AD-A143800] 23 p3835 N84-34325
Notice for airmen, part 2. Index of approved manufacturing operations for aeronautical appliances according to paragraph 18 of test procedures for aeronautical appliances
[NFL-II-39/84] 24 p3847 N84-34394
Notice for airmen, part 2. Index of approved aeronautical engineering operations and of independent inspectors according to paragraph 33 of test procedures for aeronautical appliances
[NFL-II-39/84] 24 p3847 N84-34395
European scientific notes
[AD-A144223] 24 p3995 N84-35284

INDIA
Periodicities in the rainfall patterns of different regions in India
[INPE-2899-PRE/418] 02 p0253 N84-11657
Possible tidal modulation of the Indian monsoon onset
[AD-A135441] 08 p1191 N84-17760
Interannual variability of Indian monsoon rainfall
12 p1855 N84-22081
Configuration of eastern Gondwanaland
14 p2160 N84-23936

INDIAN OCEAN
Tide tables 1984, high and low water predictions, central and western Pacific Ocean and Indian Ocean
[PB83-255166] 05 p0711 N84-14660
Tropical cyclone operational plan for the Southwest Indian Ocean
[WMO-618] 06 p0882 N84-15741
Navy tactical applications guide. Volume 5, Part 1: Indian Ocean (Red Sea/Persian Gulf) weather analysis and forecast applications
[AD-A134412] 07 p1039 N84-16740
ONR-Sponsored meeting to discuss South Atlantic and Indian Ocean physical oceanographic research
[AD-A140030] 15 p2374 N84-25242
Density inhomogeneities in upper mantle of eastern Indian Ocean 17 p2702 N84-27210
Somali current studied from SEASAT altimetry
17 p2719 N84-27307
Data bank on Pacific and Indian Oceans
18 p2856 N84-28140
Variability of vertical distributions of sea water temperature and light extinction index in section across Mascarene Ridge 18 p2857 N84-28142
Changes in relative instantaneous spreading rates in the Indian Ocean 18 p2858 N84-28149
Seismological investigations in the Indian Ocean by autonomous OBS 19 p3060 N84-29416
An objective analysis technique for extrapolating tidal fields 20 p3222 N84-30471

INDIAN SPACECRAFT
Separation and staging mechanisms for the Indian SLV-3 launch vehicle 15 p2349 N84-25095

INDIANA
Water resources data for Indiana, water year 1982
[PB84-114990] 09 p1339 N84-18747
Meteorological models for estimating phenology of corn
[E84-10160] 17 p2709 N84-27252
Aggregating available soil water holding capacity data for crop yield models
[E84-10161] 17 p2710 N84-27253

INDICATING INSTRUMENTS
NT ANEMOMETERS
NT APPROACH INDICATORS
NT ATTITUDE INDICATORS
NT CLOUD HEIGHT INDICATORS
NT FLOW DIRECTION INDICATORS
NT GYROCOMPASSES
NT HOT-FILM ANEMOMETERS
NT HOT-WIRE ANEMOMETERS
NT LASER ANEMOMETERS
NT MICROWAVE SENSORS
NT PLAN POSITION INDICATORS
NT POSITION INDICATORS
NT RADIO DIRECTION FINDERS
NT SMOKE DETECTORS
NT STRAIN GAGE BALANCES
NT TACHOMETERS
NT WEIGHT INDICATORS
Snow characterization instruments
[AD-A131984] 03 p0411 N84-12687
Vertical gyro with erection system and indication mechanism
[BMFT-FB-W-83-034] 12 p1819 N84-21858

INDIUM
Predevelopment of IR-CCD components
[BMFT-FB-T-83-133] 03 p0456 N84-13001
Field emission electric propulsion: Additional propellants: Further tests on indium and alloys
[R664] 06 p0796 N84-15186

INDIUM ALLOYS
Field emission electric propulsion: Additional propellants: Further tests on indium and alloys
[R664] 06 p0796 N84-15186
Evolution of the phonon spectrum and the density of states at the Fermi level near the martensitic transformation in NiAl, Ti(NiCo), CuZnAl and InTl alloys
[ESA-TT-767] 16 p2465 N84-25801
The determination of the Bodner material coefficients for indium 718 and their effects on cyclic loading
[AD-A141174] 18 p2614 N84-27881
Preparation of high purity Ga(X)In(1-x) by the VPE-hydride method with a gallium-indium alloy source
[AD-A143275] 22 p3663 N84-33218

INDIUM ANTIMONIDES
Tunable far infrared semiconductor sources
[AD-A137777] 11 p1647 N84-20767
Helium-neon lasers for remote measurements of natural gas leaks 15 p2430 N84-25595
Conductivity in semiconductors induced by vibrational-to-electronic energy transfer
[AD-A140094] 16 p2553 N84-26380
Investigation of the MBE growth of InSb and novel quantum well structures
[AD-A144151] 24 p3967 N84-35117

INDIUM ARSENIDES
Surface and interfacial properties of Ga(0.47) In(0.53) As alloys
[AD-A131925] 03 p0451 N84-12970
InAsSb strained-layer superlattices for long wavelength detector applications
[DE84-001055] 06 p0924 N84-16004
An In0 2Ga0 8As/GaAs, modulation-doped, strained-layer superlattice field-effect transistor
[DE84-000136] 06 p0924 N84-16006
Material growth and characterization for solid state devices
[NASA-CR-173265] 10 p1587 N84-20401
The effects of substrate surface treatments on the defect incorporation in hydride VPE grown InGaAs films
[AD-A137488] 10 p1588 N84-20406
Nonlinearities at the bandgap in InAs
14 p2233 N84-24395
Preparation of high purity Ga(X)In(1-x) by the VPE-hydride method with a gallium-indium alloy source
[AD-A143275] 22 p3663 N84-33218

INDIUM COMPOUNDS
NT INDIUM ANTIMONIDES
NT INDIUM ARSENIDES
NT INDIUM PHOSPHIDES
Material growth and characterization for solid state devices
[NASA-CR-173265] 10 p1587 N84-20401
Preparation and properties of electrically conducting ceramics based on indium oxide-rare Earth oxides-hafnium oxide 11 p1741 N84-21360
Low cost, sprayed CuInSe2 solar cell research
[DE84-010480] 20 p3235 N84-30533

INDIUM PHOSPHIDES
Study of deep-level defects and transport properties vs. growth parameters and annealing conditions in III-IV compound semiconductors
[AD-A130776] 01 p0153 N84-11008
InP:Fe picosecond photoconductors
[DE83-015237] 02 p0215 N84-11410
Growth and characterization of InP and InGaAs films using the hydride VPE technique
[AD-A131841] 03 p0452 N84-12973
3-5 semiconductor lasers and detectors
07 p1009 N84-16541
Optical excitation of trapping states in Fe doped InP
[AD-A134183] 07 p1060 N84-17019
Long wavelength InGaAsP/InP lasers and optoelectronic integration 08 p1163 N84-17573

InGaPAs by metalorganic chemical vapor deposition
[AD-A135281] 08 p1234 N84-18069
Thermal conductivity of ternary and quaternary III-V compounds
[AD-A135396] 08 p1235 N84-18070
A comparative thermodynamic analysis of impurity incorporation in vapor phase epitaxial InP and GaAs
[AD-A135730] 09 p1395 N84-19113
Development of high purity IP crystals
[AD-A135937] 09 p1395 N84-19114
Dislocations in Syton polished InP
[AD-A138041] 12 p1913 N84-22463
Chemical deposition of SiO2 on InP
[AD-A138355] 12 p1914 N84-22472
Measuring the temperature coefficients of the elastic constants of indium phosphide
[AD-A138454] 12 p1915 N84-22474
InP materials
[AD-A138992] 13 p2047 N84-23282
Furnace transient anneal process and apparatus
[AD-D011048] 19 p3002 N84-29027
Basic problems in InP technology
[AD-A143456] 22 p3663 N84-33222
Impurity and defect characterization in epitaxial GaAs InP and the ternary and quaternary compound semiconductors
[AD-A143551] 22 p3664 N84-33225

INDOLES
NT TRYPTOPHAN

INDONESIA
Geologic application of spaceborne radars
07 p0987 N84-16391
Depositional history and structural evolution of a sedimentary basin in a modern forearc setting, western Sunda Arc, Indonesia 13 p2014 N84-23068
Overseas programs 19 p3038 N84-29272
Photovoltaic power system for satellite Earth stations in remote areas: Project status and design description
[NASA-TM-83789] 23 p3730 N84-33642

INDOOR AIR POLLUTION
Method for identifying trace contaminants in chamber atmosphere at high pressure 02 p0262 N84-11718
Proceedings of the 3rd Tripartite Conference on Submarine Medicine: France, United Kingdom and the United States
[AD-A133150] 06 p0689 N84-15777
System for the removal of airborne contaminants from aircraft environmental control systems
[AD-D011172] 23 p3727 N84-33615
Control of respirable particles and radon progeny with portable air cleaners
[DE84-013878] 23 p3812 N84-34170

INDUCED FLUID FLOW
U FLUID FLOW

INDUCTANCE
NT PROXIMITY EFFECT (ELECTRICITY)
Electrical and thermal modeling of railguns
[DE84-001361] 04 p0515 N84-13387
High voltage, low inductance hydrogen thyratron study program, phase 5
[DE84-000627] 10 p1487 N84-19721
Influence of transient regimes of the motor on elastic mechanical vibrations in an electric drive
[BLL-M-35438-(5828.4)] 12 p1825 N84-21896
Radomes for flight vehicles
[AD-A140174] 16 p2483 N84-25920
Calculation of the excess inductance of a microstrip discontinuity
[AD-A143819] 23 p3742 N84-33718

INDUCTION
Bellows flow-induced vibrations
[NASA-TM-82556] 13 p1989 N84-22912

INDUCTION (MATHEMATICS)
Introduction to fuzzy decision rules
[INPE-2855-TDL/143] 02 p0286 N84-11875
Tutorial: Fuzzy sets and applications
[INPE-3168-PRE/538] 21 p3471 N84-31998

INDUCTION HEATING
Influence of alloying on the properties of nickel in the solid and liquid states
[BLL-M-35284-(5828.4)] 06 p0803 N84-15232
Extra losses in the inductor windings of induction heaters and electric machines
[BLL-OA-TRANS-3114-(6196.3)]
09 p1306 N84-18534

INDUCTION MOTORS
Dynamic model for an induction motor and its verification
[DE83-013736] 01 p0074 N84-10484
Control system for an induction motor with energy recovery
[NASA-CASE-MFS-25477-1] 05 p0673 N84-14424
A magnetically suspended linearly driven cryogenic refrigerator 06 p0820 N84-15345
Technology Reports of the Kyushu University, vol. 56, no. 3, June 1983
[ISSN-0023-2718] 07 p0982 N84-16359
Influence of unbalanced three-phase current on characteristics of high-speed LIM
07 p0983 N84-16365
Three phase power factor controller
[NASA-CASE-MFS-25535-2] 13 p1985 N84-22885
Motor power control circuit for ac induction motors
[NASA-CASE-MFS-25323-1] 13 p1985 N84-22886
Field demonstration of three-phase wanlass motors
[AD-A140085] 15 p2330 N84-24989
Advanced motor-controller development
[AD-A140299] 16 p2484 N84-25934
Effects of voltage control in utility interactive dispersed storage and generation systems
[NASA-CR-173730] 18 p2869 N84-28211
Coupling an induction motor type generator to ac power lines — making windmill generators compatible with public power lines
[NASA-CASE-MFS-25302-2] 23 p3734 N84-33660
Three-phase power factor controller with induced EMF sensing
[NASA-CASE-MFS-25852-1] 23 p3734 N84-33661

INDUCTION SYSTEMS
U INTAKE SYSTEMS

INDUCTORS
Extra losses in the inductor windings of induction heaters and electric machines
[BLL-OA-TRANS-3114-(6196.3)]
09 p1306 N84-18534
Evaluation of 95 gpm inductors for aqueous film forming foam
[AD-A141242] 18 p2818 N84-27894
Pulsed inductive energy store
[AD-A144282] 24 p3916 N84-34796

INDUSTRIAL ENERGY
Innovative industrial-materials processes — potential for energy conservation
[DE83-016784] 03 p0405 N84-12649
County-level wind resource estimates for DOE Region 5
[DE84-000009] 04 p0568 N84-13744
Guide for designing industrial high tension networks
[CAHIERS-TECHNIQUES-124]
15 p2330 N84-24994
AFB/open cycle gas turbine conceptual design study
[NASA-CR-168135] 21 p3434 N84-31784
Compressed air production with waste heat utilization in industry 23 p3727 N84-33619
M.A.N. heat pumps in industry and communities, and their efficiency 23 p3747 N84-33755
Increase of the electric power characteristic number in industrial power stations. Adaptation of Power-Heat Coupling (PHC) to a new consumption structure
23 p3791 N84-34047

INDUSTRIAL MANAGEMENT
NT ENGINEERING MANAGEMENT
NT INVENTORY CONTROLS
NT INVENTORY MANAGEMENT
NT PERSONNEL MANAGEMENT
Acceleration of S&T progress discussed
01 p0055 N84-10358
Techniques of condition monitoring and fault diagnosis in industry 04 p0546 N84-13595
Information systems design in construction management 05 p0717 N84-14696
Computerised plant control system
05 p0717 N84-14698
Productivity improvement in a jobbing shop
09 p1293 N84-18449
The Microelectronics Center: A new force in cooperative VLSI signal processing research
09 p1403 N84-19166
On the facial structure of scheduling polyhedra
[AD-A136963] 10 p1591 N84-20427
Cost accounting standards: A time for government and industry action
[AD-P002767] 13 p2053 N84-23314
The industrial modernization incentives program: An experimental effort to improve defense contractor productivity
[AD-P002771] 13 p2053 N84-23318
The government relationship to industry in technology transfer and development
[AD-P002772] 13 p2053 N84-23319
USSR report: Science and technology policy
[JPRS-UST-84-004] 13 p2064 N84-23387
Computer developments at Institute of Automation and Electrometry described 13 p2065 N84-23390
West Europe report: Science and technology
[JPRS-WST-84-001] 14 p2135 N84-23799
Saab claims world's most modern engine-assembly plant 14 p2135 N84-23800
Industry official on progress in Soviet robotics program
14 p2155 N84-23915
Use of robots in Estonian auto, machine tool industries viewed 14 p2155 N84-23916
Robotics impact on labor productivity examined
14 p2187 N84-24104
Scientology and management of science and technology
[AD-A139084] 14 p2246 N84-24487
The MBB business activities' report
14 p2247 N84-24494
Paperwork Reduction Act of 1980
[S-REPT-98-479] 14 p2248 N84-24504
Science and technology report to the Congress, 1982
[DE84-901150] 20 p3313 N84-31040
CSIR activities in South Africa
[ISBN-0-7988-3029-8] 21 p3527 N84-32340
USSR report: Machine tools and metalworking equipment
[JPRS-UMM-84-017] 24 p3891 N84-34640
Decision-making process in management automation
24 p3892 N84-34644

INDUSTRIAL PLANTS
NT FOUNDRIES
Algorithms for automated diagnosis of faults in physical plant
[DE84-000192] 04 p0582 N84-13841
Productivity and the forging industry
09 p1293 N84-18448
Techniques for predictive maintenance in industrial installation and failure diagnostic
10 p1503 N84-19824
Computer control of refrigerating plants
11 p1640 N84-20724
Overall mechanization of assembly and welding processes in the manufacture of ships' structures
12 p1787 N84-21653
A survey of gas-side fouling in industrial heat-transfer equipment
[NASA-CR-173469] 12 p1841 N84-22003
Model reference adaptive control systems: The hybrid approach 13 p2031 N84-23169
On-site survey and analysis of pyrotechnic mixer bays
[AD-A139485] 14 p2132 N84-23779
Installation of large-size technological equipment (selected pages)
[AD-A139069] 15 p2318 N84-24910
Navy electroplating pollution control technology assessment manual
[AD-A140336] 16 p2477 N84-25879
Guide to Canadian aerospace related industries
[AD-A140606] 17 p2598 N84-26650
Cogeneration: Status and environmental issues
[PB84-155175] 17 p2723 N84-27334
Success with Data Management 4 at the DOE Pinellas Plant
[DE84-008021] 19 p3116 N84-29802
Design philosophy for reliable systems, including control
[DE84-012681] 20 p3279 N84-30814
Getting into CAD at the Savannah River Plant
[DE84-011581] 21 p3466 N84-31977
Reference plant for high temperature electrodialysis desalting of seawater
[PB84-195841] 22 p3549 N84-32471
USSR report: Machine tools and metalworking equipment
[JPRS-UMM-84-016] 23 p3726 N84-33623
Versatility of new east, west European robots viewed
23 p3726 N84-33624
Kirov's plant troubles with robotization
23 p3726 N84-33625
Robotization of stamping operation reviewed
23 p3726 N84-33627
Cogeneration Technology Alternatives Study (CTAS). Volume 2: Comparison and evaluation of results
[NASA-TM-81401] 23 p3790 N84-34038

INDUSTRIAL SAFETY
Probabilistic model for assessing time-varying contaminant levels
[PB83-232108] 01 p0115 N84-10745
Registry of toxic effects of chemical substances. User's guide to the RTECS computer tape
[PB83-223172] 01 p0115 N84-10748
Concept of a safety system for a servohydraulic test facility 03 p0339 N84-12202
Walk-through survey report: Control technology for integrated circuit fabrication, Xerox Corporation, El Segundo, California
[PB83-239053] 03 p0359 N84-12333
Hazards Control Department annual technology review, 1982
[DE83-015596] 03 p0439 N84-12883
Proceedings of the 13th Conference on Environmental Toxicology
[AD-A134150] 07 p1027 N84-16657

An industrial hygiene evaluation of F-16 aircraft refueling inside closed aircraft shelters
[AD-A138501] 12 p1866 N84-22157
Relationship between cardiovascular system response and adrenocortical glucocorticoid function on exposure to diffuse, low-intensity helium-neon laser emission
17 p2741 N84-27405
Environmental, health and safety assessment of photovoltaics
[NASA-CR-173739] 18 p2877 N84-28267
Lead 19 p2992 N84-28959
Fluorspar 19 p3053 N84-29375
Chronic effects of repeated mechanical trauma to the skin: A description of the problem in the workplace
[PB84-181767] 20 p3261 N84-30695
Occupational Medicine Relevant to Aviation Medicine
[AGARD-CP-341] 22 p3631 N84-33011
Review of occupational medicine relevant to aviation medicine 22 p3631 N84-33012
Hydrazine toxicology: Impact on safety and health in military aviation 22 p3631 N84-33013

INDUSTRIAL WASTES
Biorefining of selected industrial wastes to liquid fuels and organic chemicals
[DE83-013910] 01 p0054 N84-10346
Probabilistic model for assessing time-varying contaminant levels
[PB83-232108] 01 p0115 N84-10745
Performance test results of an absorption heat pump which is designed to utilize low-temperature 600C (1400F) industrial waste heat
[DE83-017194] 04 p0537 N84-13533
Research planning task group study-thermal destruction
[PB84-145119] 12 p1804 N84-21764
X-ray diffraction phase analysis of process and pollution control device samples
[PB84-168632] 15 p2367 N84-25201
Evaluation of process systems for effective management of aluminum finishing wastewaters and sludges
[PB84-170661] 16 p2520 N84-26178
Determination of thermal-degradation rates of some candidate Rankine-cycle organic working fluids for conversion of industrial waste heat into power
[DE84-009585] 20 p3197 N84-30304

INDUSTRIES
NT AEROSPACE INDUSTRY
NT AIRCRAFT INDUSTRY
NT CONSTRUCTION INDUSTRY
NT DEFENSE INDUSTRY
NT WEAPONS INDUSTRY
Trade agreements on know-how discussed
01 p0054 N84-10349
Information technology and development series. Volume 2: Informatics and industrial development. Proceedings of the International Conference on Policies for Information Processing for Developing Countries
[AD-A130796] 01 p0162 N84-11063
Fiber composite materials research in the UK: Assessment report
[AD-A132366] 04 p0492 N84-13226
A theoretical analysis of the past variations in global atmospheric composition and temperature structure
08 p1190 N84-17754
Research and development joint ventures
[GPO-26-312] 08 p1241 N84-18114
Industrial noise control: The past three years
10 p1505 N84-19846
Documents on industrial research
[AGF-DOK-1/1983] 10 p1592 N84-20429
Industrial research and industry: Forms of collaboration and participation
[AGF-DOK-2/1983] 10 p1592 N84-20430
Technical and economic feasibility of Stirling cycle industrial heat pumps
[DE84-005486] 11 p1653 N84-20793
Quality and reliability of steel wire ropes
[BLL-M-35461-(5828.4)] 12 p1821 N84-21872
Data distribution in the NBS Automated Manufacturing Research Facility 12 p1891 N84-22315
East Europe report: Scientific affairs
[JPRS-ESA-84-010] 12 p1897 N84-22356
Problems of prompt adoption of new technology discussed 13 p2065 N84-23396
USSR report: Machine tools and metalworking equipment
[JPRS-UMM-84-009] 14 p2188 N84-24108
Belorussia's industry robotization program discussed
14 p2188 N84-24111
Level of robotization of Kazakhstan industry viewed
14 p2188 N84-24112
Electric and Hybrid Vehicles Program. Report to Congress for fiscal year 1983
[DE84-007792] 14 p2249 N84-24511
Industrial applications for plasma torches
[SNIAS-832-430-101] 15 p2305 N84-24829
Human factors: A necessary tool for industry
[DE84-007531] 15 p2385 N84-25304
Opportunities for the chemical industry in space, part 1
[NASA-CR-173594] 16 p2462 N84-25778
International competitiveness in electronics
[PB84-170695] 16 p2568 N84-26475
Status of advanced airfoil tests in the Langley 0.3-meter transonic cryogenic tunnel 18 p2783 N84-27664
Seeding the Ada (trademark) software components industry
[AD-P003432] 20 p3272 N84-30764
Technology, innovation and regional economic development. Background paper 2: Encouraging high-technology development
[PB84-180181] 21 p3522 N84-32310
Forty years of development in diamond tools
[CSIR-TRANS-1730] 22 p3563 N84-32564
Administrative obstacles to robotization recalled
23 p3728 N84-33626
Transient circuit overvoltages in Swedish manufacturing industry — on AC power supply systems
[FOA-E-30002-E26] 23 p3744 N84-33735
USSR report: Chemistry
[JPRS-UCH-84-007] 24 p3867 N84-34508
Industrial optodigital inspection system
24 p3942 N84-34955
An alternative mathematical approach to movement as complex human behavio. 24 p3957 N84-35054

INELASTIC BODIES
U RIGID STRUCTURES

INELASTIC COLLISIONS
Study of excited state energy transfer processes
[AD-A131777] 03 p0433 N84-12837
New statistical and non-statistical effects in deep inelastic heavy-ion collisions
[DE83-015732] 03 p0439 N84-12885
The kinetic equation in an imperfect ionized plasma
[IPPJ-656] 11 p1734 N84-21308
Measurements of integral state-specific cross sections of inelastic collisions between NO and noble gases
[MPIS-18/1983] 20 p3297 N84-30935
A theoretical study of the energetics and dynamics of high energy inelastic collision processes
[AD-A142799] 21 p3497 N84-32163
Atomic resonance and scattering
22 p3681 N84-33339

INELASTIC SCATTERING
Quasielastic reactions
[DE83-014616] 01 p0144 N84-10947
Electron-ion collisions
[DE83-017211] 03 p0437 N84-12867
Dynamical friction in condensed matter
[DE84-004202] 10 p1589 N84-20415
Spectroscopy of surface adsorbed molecules
[DE84-005254] 10 p1589 N84-20417
Piece-wise analytic evaluation of the radiative tail from elastic and inelastic electron scattering
[PB84-155290] 14 p2223 N84-24342
Determining of surface oxide compositions on Alloy 600 using Rutherford backscattering
[DE84-002872] 15 p2299 N84-24797
Band structure effects in the electronic properties of solids assessible in neutron scattering studies
[DE84-008557] 18 p2941 N84-28654
Pion elastic and inelastic scattering from (40) (42) (44) (48)Ca and (54)Fe
[DE84-009080] 20 p3296 N84-30927
Algorithm for secondary electron emission from water vapor by high velocity ions
[DE84-011871] 21 p3494 N84-32142

INELASTIC STRESS
Mathematical models for inelastic behavior and cracking of concrete structures 01 p0093 N84-10605
Inelastic stability of tapered, singly-symmetric beam-columns 02 p0230 N84-11509
Cumulative damage in components of steel structures under cyclic inelastic loading 03 p0391 N84-12550
Inelastic analysis of piping and tubular structures
[PB83-249967] 04 p0550 N84-13623
Inelastic deformation of metals and structures under dynamic and quasi-static cyclic loading
[AD-A136022] 09 p1332 N84-18700
Development of a simplified procedure for cyclic structural analysis
[NASA-TP-2243] 11 p1667 N84-20878
Interactive computer analysis methods for predicting the inelastic cyclic behaviour of structural sections
[PB84-192012] 20 p3205 N84-30358
Nonlinear Structural Analysis
[NASA-CP-2297] 21 p3419 N84-31688
Inelastic and dynamic fracture and stress analyses
21 p3421 N84-31697

INEQUALITIES
On L sup p-integrability in PDE's and quasiregular mappings for large exponents 04 p0576 N84-13799
Convex-ordering among functions, with applications to reliability and mathematical statistics
[AD-A132796] 05 p0736 N84-14833
The Gauss-Tchebyshev inequality for unimodal distributions
[AD-A133760] 05 p0739 N84-14857
On conditions for success of Sklansky's convex hull algorithm
[CSIR-TWISK-282] 07 p1059 N84-16866
On perturbations of stability inequalities with an application to finite difference approximations of ODE's
[AD-A134535] 07 p1062 N84-16889
On the Fatou inequality
[AD-A136383] 09 p1374 N84-18973
Minimax solution of a nonlinear system of mixed equalities and inequalities
[DE84-003870] 11 p1709 N84-21137
On a fundamental inequality and the singularities of an analytic function defined by the LC-Dirichletian element
13 p2032 N84-23177
An interpolation type inequality for a discrete weighted norm
[CTH-MATH-1983-30] 13 p2037 N84-23213
On 4th-order homogeneous functionals in the class of bounded univalent functions 15 p2396 N84-25374
Risk and distributional inequality
[AD-A140373] 16 p2565 N84-26458
An equality which yields zero velocity surfaces
19 p3117 N84-29610
Weighted inequalities and degenerate elliptic partial differential equations
[AD-A142895] 21 p3472 N84-32007
Variability orderings related to coverage problems on the circle
[AD-A143364] 22 p3648 N84-33130

INERT GASES
U RARE GASES

INERTIA
NT INERTIA PRINCIPLE
Uniaxial model for gas-loaded variable conductance heat pipe performance: The effects of vapor flow, friction, and inertia 10 p1443 N84-19424
Inertial energy storage hardware definition study (ring rotor)
[NASA-CR-175271] 10 p1529 N84-20015
The effect of fluid inertia and viscoelasticity in squeeze-film damper bearings
[AD-A138054] 12 p1822 N84-21880
Experimental mixed convection heat transfer from a large, vertical surface in a horizontal flow
[HMT-36] 14 p2146 N84-23864
Free vibration analysis of uniform and nonuniform cantilever beams by including the effects of transverse shear deformation and rotary inertia
15 p2402 N84-25417
Integrable equations of motion by inertia for two bodies coupled through spherical hinge
17 p2650 N84-26946
Materials research for advanced inertial instrumentation. Task 3: Rare earth magnetic material technology as related to gyro torquers and motors — high energy SmCo5 magnets
[AD-A140611] 17 p2762 N84-27542
Nacelle Aerodynamic and Inertial Loads (NAIL) project
[NASA-CR-165807] 18 p2786 N84-27685
Nacelle Aerodynamic and Inertial Loads (NAIL) project
[NASA-CR-3585] 19 p2963 N84-28777
Stores weight and inertia system update: Cable attachment redesign, flexible length parameter calibration, data sheet revision
[AD-A141087] 19 p2963 N84-28781
Inertial and shear flow 20 p3288 N84-30674
Effect of inertia on finite near-tip deformation for fast Mode-3 crack growth
[AD-A142947] 21 p3422 N84-31706

INERTIA MOMENTS
U MOMENTS OF INERTIA

INERTIA PRINCIPLE
Magnetic bearings for inertial energy storage
03 p0345 N84-12242
Assessment of trends of input actions of inertial objects
[BLL-M-35689-(5828.4)] 22 p3644 N84-33104
Experimental determination of the inertia constants of an airplane or of a missile
[NASA-TM-77767] 23 p3689 N84-33381

INERTIA WHEELS
U REACTION WHEELS

INERTIAL CONFINEMENT FUSION
NT IMPACT FUSION
E-beam pulsewidth scaling for a large KrF laser
[DE83-013632] 01 p0087 N84-10571
The COMET: A 6-MV, 400-kJ, magnetically-switched pulse-power module
[DE83-013077] 02 p0290 N84-11901

Rotating and propagating LIB stabilized by self-induced magnetic field
[IPPJ-640] 03 p0444 N84-12916
Inertial fusion with low-energy heavy ions
[DE83-016709] 03 p0446 N84-12934
Ion stopping in heated targets
[DE83-017800] 03 p0447 N84-12941
Light-ion-beam fusion
[DE83-018263] 03 p0448 N84-12944
A laser-fusion rocket for interplanetary propulsion
[DE84-001238] 04 p0490 N84-13219
Scientific program and abstracts
[DE83-017620] 04 p0601 N84-13967
Grad-B drift transport of high current electron beams
[DE84-000115] 04 p0602 N84-13977
Analysis of mechanisms for anode plasma formation in ion diodes
[DE83-017793] 04 p0608 N84-14010
New heavy-ion-fusion accelerator research program
[DE83-014898] 04 p0609 N84-14016
Infant-mortality testing of high-energy-density capacitors used on Nova
[DE83-018027] 04 p0610 N84-14028
Hybrid ion diode theory and computations
[DE84-000102] 04 p0610 N84-14029
Applications of hybrid numerical-simulation methods to magnetic-confinement systems
[DE84-001840] 05 p0750 N84-14922
Contactless pellet fabrication
[NASA-CASE-NPO-15592-1] 07 p1069 N84-16940
Light ion beam fusion research at Sandia National Laboratories
[DE84-002109] 07 p1078 N84-17007
Characterization of the TEXTOR plasma edge using deposition probe techniques
[DE84-003306] 07 p1078 N84-17011
Comparisons of hydrodynamic beam models with kinetic treatments
[DE84-003242] 08 p1233 N84-18057
Light ion fusion
[DE84-003767] 08 p1233 N84-18061
Insulator materials in high power lasers for inertial fusion: Present and future
[DE84-003738] 08 p1234 N84-18063
Development of CO2 and KrF gas lasers as drivers for inertial confinement fusion
[DE84-004329] 10 p1501 N84-19810
Mechanical construction of the 22 Nova laser
[DE84-005432] 11 p1663 N84-20855
Enhancement of the excitation and deexcitation rate coefficient of ions in dense plasmas: The role of autoionizing states
[IPPJ-661] 11 p1733 N84-21302
Atomic processes for modeling of inertial confinement fusion plasma 11 p1735 N84-21317
NOVA Laser facility for inertial confinement fusion
[DE84-004190] 11 p1737 N84-21332
Heavy ion fusion reactor HIBLIC-1. Conceptual design of heavy ion fusion reactor
[IPPJ-663] 12 p1909 N84-22438
Richtmyer-Meshkov instabilities in stratified fluids
[DE84-005738] 12 p1911 N84-22449
Three wavelength optical alignment of the Nova laser
[DE84-009702] 18 p2847 N84-28079
Inertial confinement fusion reactor studies
[DE84-008675] 18 p2933 N84-28602
Proceedings of Collaborating Research Meeting on Particle-Beam Applications to Fusion Research
[IPPJ-678] 21 p3500 N84-32184
Current status of calculations and measurements of ion stopping power in ICF plasmas
[DE84-005880] 21 p3501 N84-32187
Dynamic testing of NOVA laser structural systems. The north side of Spaceframe Tower
[DE84-014830] 22 p3602 N84-32816

INERTIAL COORDINATES
Reference coordinate systems for Earth dynamics: A preview 07 p1029 N84-16668

INERTIAL FORCES
U INERTIA

INERTIAL FUSION (REACTOR)
Lithium equation-of-state
[DE83-017968] 03 p0347 N84-12253
Diagnosing the ion beam on the applied-B diode
[DE83-017822] 03 p0447 N84-12943
Status of light ion inertial fusion research at NRL (Naval Research Laboratory)
[AD-A135951] 09 p1392 N84-19087
Inertial fusion research at the University of Rochester: Progress in direct drive
[DE84-003691] 10 p1501 N84-19807
Disassembly of isochorically heated liquids
[DE84-009536] 19 p3108 N84-29747
A high current heavy ion beam transport experiment at LBL
[DE84-009225] 20 p3294 N84-30912
Research and development of a plasma jet mass accelerator as a driver for impact fusion
[DE84-012940] 22 p3659 N84-33198

INERTIAL GUIDANCE
NT STRAPDOWN INERTIAL GUIDANCE
Materials research for advanced inertial instrumentation. Task 2: Gas bearing material development
[AD-A130471] 01 p0007 N84-10044
Centaur D-1A guidance/software system
[NASA-TM-83552] 07 p0982 N84-16234
Transmitted thrust on a large dual rail rocket sled system
[AD-A137151] 11 p1621 N84-20608

INERTIAL MEASURING UNITS
U INERTIAL PLATFORMS

INERTIAL NAVIGATION
Aerodynamic coefficient identification package dynamic data accuracy determinations: Lessons learned 01 p0022 N84-10138
Integration of fire control, navigation system and head up display 03 p0315 N84-12060
Two stochastic modeling problems in communications and navigation
[AD-A133458] 06 p0905 N84-15873
Optical data processing for missile guidance
[AD-A136216] 09 p1254 N84-18188
The Schuler principle: A discussion of some facts and misconceptions
[EUT-83-E-136] 10 p1427 N84-19330
Global positioning system satellite selection evaluation for aided inertial navigation
[AD-A136070] 12 p1767 N84-21527
Study of NOAA (National Oceanic and Atmospheric Administration) WP-3D terminal navigation errors based on navigators logbooks: 1977-1983
[PB84-155738] 17 p2605 N84-26692
Equations of small oscillations for inertial navigation system taking into account Earth's ellipsoidality 17 p2643 N84-26909
Regression analysis technique for air data sensor calibration with an inertial navigation system
[DFVLR-MITT-84-03] 18 p2791 N84-27716
Development, set up and testing of a measuring system for components of the Derived Azimuth System (DAS)
[BMFT-FB-W-84-005] 19 p2962 N84-28773
Sensor noise and Kalman filter for aided inertial navigation system
[AD-A143360] 22 p3534 N84-32372

INERTIAL PLATFORMS
Drift prediction for a roll-stabilized inertial measurement system
[AD-P002674] 11 p1657 N84-20811
Fault-tolerant system considerations for a redundant strapdown inertial measurement unit
[NASA-CR-172428] 23 p3692 N84-33396
Mounting arrangement for an inertial measurement unit
[AD-D011148] 23 p3750 N84-33770

INERTIAL REFERENCE SYSTEMS
Comments on conventional terrestrial and quasi-inertial reference systems 07 p1029 N84-16669
Reference frame requirements and the MERIT campaign
[REPT-329] 07 p1029 N84-16671
On the establishment and maintenance of a modern conventional terrestrial reference system
[NOAA-TR-NOS95-NGS-24] 07 p1029 N84-16672
Geodetic reference frames 07 p1031 N84-16685

INERTIAL UPPER STAGE
Engineering evaluations and studies. Volume 1: Exhibit A
[NASA-CR-171724] 06 p0794 N84-15174
An evaluation of Techroll seal flexible joint material 06 p0929 N84-16037
Inertial Upper Stage (IUS) Solid Rocket Motor (SRM) core flow sampling at high altitudes
[AD-A134997] 08 p1121 N84-17288
Analysis of electric propulsion orbit transfer vehicles versus IUS, CENTAUR-G, and a reuseable bipropellant system
[AD-A141173] 18 p2808 N84-27827
Materials testing of the IUS techroll seal material
[NASA-TM-86462] 22 p3604 N84-32829
Contamination measurements during IUS thermal vacuum tests in a large space chamber --- IUS equipment support system 24 p3865 N84-34496

INFECTIONS
U INFECTIOUS DISEASES

INFECTIOUS DISEASES
The effect of smoking on the non-specific resistance of the organism of seamen at sea 06 p1199 N84-17816
Study of erythrocyte adhesion in cosmonauts 15 p2375 N84-25252
Clinical-immunological spectrum of Leishmaniases 17 p2741 N84-27404
Rapid microbial identification by circular intensity differential scattering
[DE84-013894] 22 p3629 N84-32993

INFERENCE
A measure of the conformity of a parameter set to a trend: The partially ordered case
[AD-A131214] 02 p0285 N84-11866
PLY: A system of plausibility inference with a probabilistic basis
[AD-A132537] 04 p0588 N84-13889
An overview of the quasi-optimizer system
[AD-A133783] 05 p0739 N84-14856
Ambiguity and uncertainty in probabilistic inference
[AD-A133418] 06 p0905 N84-15872
On iterative procedures of asymptotic inference
[MC-SW-94/83] 07 p1064 N84-16905
Implication and equivalence among statistical inference rules
[CTH-MATH-1983-21] 07 p1068 N84-16937
Rule-based statistical calculations on a database abstract
[AD-A136638] 09 p1404 N84-19172
A theory of diagnostic inference
[AD-A137032] 10 p1551 N84-20163
Fuzzy reasoning under new compositional rules of inference
[AD-P002364] 14 p2194 N84-24155
A study of fuzzy relations and their inverse problem
[AD-P002365] 14 p2194 N84-24156
Bootstrap inference with stratified samples
[AD-A139313] 14 p2218 N84-24312
Approximating the level probabilities in order restricted inference: The simple tree ordering
[AD-A140684] 17 p2760 N84-27525
Jackknife and bootstrap inference in regression and a class of representations for the LSE
[AD-A141505] 19 p3093 N84-29641
Inference based on ranks with multiple failure time or grouped survival data
[MATHS-RES-177] 20 p3200 N84-30324
Bounded-influence inference in regression
[AD-A143195] 22 p3648 N84-33126

INFESTATION
The Pennsylvania defoliation application pilot test
[E84-10111] 13 p2004 N84-23004

INFILTRATION
Infiltration and soil moisture redistribution in HEC-1
[AD-A141626] 19 p3041 N84-29295
Liquid metal infiltration of an aluminum alloy into a packed column of B4C particles
[DE84-012136] 20 p3158 N84-30055

INFINITE SPAN WINGS
Excitation of Tollmin-Schlichting waves in boundary layer at vibrating surface of infinite-span sweptback wing 13 p1971 N84-22792

INFINITY
Second-order adaptive infinite impulse response filter
[DE84-001768] 06 p0831 N84-15406
Nonlinear systems in infinite dimensional state spaces
[AD-A136530] 09 p1384 N84-19042
Big omega versus the wild functions
[MC-IW-239/83] 13 p2035 N84-23200
L infinity stability of an exponentially decreasing solution of the problem Delta u + f(x,u) = o in r(n)
[AD-A141601] 19 p3085 N84-29582

INFLATABLE DEVICES
U INFLATABLE STRUCTURES

INFLATABLE SPACECRAFT
Study on large, ultralight long-life structures in space, phase 2C
[TM-EKR3] 08 p1120 N84-17264
System definition study of deployable, non-metallic space structures
[NASA-CR-171090] 19 p2980 N84-28687

INFLATABLE STRUCTURES
NT AIR BAG RESTRAINT DEVICES
NT BALLOONS
NT HIGH ALTITUDE BALLOONS
NT INFLATABLE SPACECRAFT
NT METEOROLOGICAL BALLOONS
NT MICROBALLOONS
Load deflection characteristics of inflated structures
[NASA-CR-174585] 03 p0311 N84-12028
Inflatable device for installing strain gage bridges
[NASA-CASE-FRC-11068-1] 03 p0375 N84-12443
Large inflated-antenna system 08 p1112 N84-17234
Technical theory of pneumatic beams --- inflated beams
[FOA-C-20504-E4] 08 p1172 N84-17634
Space Shuttle inflatable training articles
[NASA-CR-171761] 11 p1622 N84-20618
The structural and aerodynamic behaviour of a semi-inflatable wing
[BU-297] 15 p2260 N84-24574

Investigation of a cylindrical inflated beam-column structure
[BU-301] 15 p2350 N84-25105
Development, test and delivery of solid propellant generators for inflation of PFD's
[AD-A130477] 21 p3460 N84-31948
Highly accurate inflatable reflectors
[AD-A143628] 23 p3825 N84-34255
INFLATING
Development, test and delivery of solid propellant generators for inflation of PFD's
[AD-A130477] 21 p3460 N84-31948
INFLUENCE COEFFICIENT
NT STRUCTURAL INFLUENCE COEFFICIENTS
Quasicon formal extensions, Fredholm eigenvalues, and Grunsky coefficient conditions 04 p0577 N84-13804
INFORMATION
Measures to step up practical use of scientific work discussed 01 p0054 N84-10350
Decision making and information processing under various uncertainty conditions
[AD-A132051] 04 p0572 N84-13770
Information theoretic models of memory in human decisionmaking models
[AD-P002883] 13 p1978 N84-22844
Three-valued logic and its application to the query language of incomplete information
[AD-P002355] 14 p2192 N84-24146
Human-computer interactions and decision behavior
[AD-A139759] 15 p2384 N84-25299
Eye movements and visual information processing
[AD-A140438] 16 p2538 N84-26296
West Europe report: Science and technology. FRG: Concept paper on microelectronics, communications technology
[JPRS-WST-84-023] 18 p2835 N84-27996
General principles in text analysis
[FOA-C-56042-H2] 19 p3116 N84-29804
The representation of part-whole information in memory
[PB84-160140] 20 p3263 N84-30701
INFORMATION DISSEMINATION
NT MESSAGES
NT SELECTIVE DISSEMINATION OF INFORMATION
Soviet economist discusses efficient use of scientific potential 01 p0055 N84-10355
Scientists discuss increased production with fewer workers 01 p0055 N84-10356
The Korean auroral records, 1507 - 1747 and the SAR (Stable Auroral Red) arcs
[NASA-CR-174472] 01 p0104 N84-10677
Science and technology programs discussed 01 p0158 N84-11045
Operation of the power information center: Performance of secretariat functions and information exchange activities in the advanced power field of the interagency advanced power group
[NASA-CR-174570] 02 p0302 N84-11961
The SPOT distribution system 03 p0400 N84-12615
Effective use of earthquake data
[AD-A134077] 06 p0878 N84-15712
Computer science and technology: Future information processing technology, 1983
[PB83-257618] 06 p0896 N84-15820
CNPq/INPE LANDSAT system
[E84-10071] 07 p1020 N84-16618
Status and future of the use of numerical and factual data 07 p1086 N84-17060
Types of technical content of data 07 p1086 N84-17061
Dissemination of data and information 07 p1086 N84-17066
General review of numerical data bases 07 p1087 N84-17067
Progress toward a coordinated system of databases covering the engineering properties of materials 07 p1087 N84-17068
Data organisations and their management 07 p1087 N84-17069
Proposed National Technical Information Service revolving fund
[PB84-103076] 08 p1239 N84-18097
Crew and life support: EVA 09 p1268 N84-18279
Management of risk and uncertainty in systems acquisition: Proceedings of the 1983 Defense Risk and Uncertainty Workshop
[AD-A136230] 09 p1397 N84-19124
The Apollo concept: Electronic document delivery by satellite
[ESA-SP-1048] 09 p1405 N84-19179
Operation of the Computer Software Management and Information Center (COSMIC)
[NASA-CR-173353] 10 p1558 N84-20207
FORTRAN 5 cross-reference
[DE84-006438] 11 p1709 N84-21143
European Scientific Notes, Volume 38, Number 2
[AD-A137652] 11 p1746 N84-21394
Management of aerospace contract documentation by industry and government
[DE84-900451] 11 p1746 N84-21396
Information systems, security and privacy
[RAND/P-6930] 11 p1747 N84-21402
NASA Scientific and Technical Information System (STI) and new directory of numerical data bases 11 p1749 N84-21413
Where to find it. Information resource centers, A quick reference booklet
[AD-A133117] 11 p1750 N84-21419
Aerospace research and technology in Germany 12 p1763 N84-21500
The Shock and Vibration Digest, volume 16, no. 2
[AD-A139098] 12 p1821 N84-21874
Small wind systems field evaluation. Volume 2: Institutional issues
[DE84-006913] 12 p1844 N84-22024
Installation representative guide
[DE83-008451] 12 p1878 N84-22241
Data management for Computer-Aided Engineering (CAE) 12 p1890 N84-22306
Matrix-dominated time-dependent deformation and damage of graphite/epoxy composite experimental data under creep and recovery
[AD-A139064] 13 p1954 N84-22704
Toward a theory of library and information science 13 p2067 N84-23405
Strategies and mechanisms for the diffusion of scientific and technical information: A comparative study 13 p2067 N84-23406
Documentation for the machine-readable version of the catalogue of 20457 Star positions obtained by photography in the declination zone -48 deg to -54 deg (1950)
[NASA-TM-85572] 13 p2070 N84-23416
Documentation for the machine-readable version of a table of Redshifts for Abell clusters (Sarazin, Rood and Struble 1982)
[NASA-TM-85571] 13 p2070 N84-23417
Documentation for the machine-readable version of the SAO-HD-GC-DM cross index version 1983
[NASA-TM-85570] 13 p2071 N84-23418
National severe local storms operations plan
[PB84-155241] 14 p2180 N84-24061
Combustion gas properties of various fuels of interest to gas turbine engineers
[NASA-TM-83682] 15 p2261 N84-24584
Computerized version of the summary of binary phase diagrams
[DE84-009405] 15 p2299 N84-24800
Informatics 1983: Signal processing
[FOA-A-30033-E] 15 p2321 N84-24932
International law gives states right to jam foreign radio broadcasts 15 p2327 N84-24972
ECUT: Energy Conversion and Utilization Technologies program. Industry, university and research interest in the US Department of Energy ECUT biocatalysis research activity
[NASA-CR-173553] 15 p2361 N84-25167
World Weather Watch Planning report no. 38: Very short range forecasting: Observations, methods and systems
[WMO-621] 15 p2371 N84-25226
Data base dependent aggregation operators in a map oriented information system
[FOA-C-30347-E1] 15 p2417 N84-25514
Earthnet: The story of images
[ESA-BR-18] 16 p2509 N84-26102
Overview of Roof Pond Systems 16 p2516 N84-26150
The process of technological innovation: Reviewing the literature 16 p2566 N84-26486
Final network: Objectives, scopes, benefits
[MBB-UR-670-83-O] 16 p2567 N84-26489
Support interference of wind tunnel models: A selective annotated bibliography
[NASA-TM-81909-SUPPL] 17 p2610 N84-26708
Exhibit of new technology 18 p2918 N84-28505
Electronics seminar contributions enumerated 18 p2918 N84-28506
The economics of computerized information dissemination 18 p2946 N84-28678
Guidelines for the design of large modular scientific libraries in Ada
[CWI-NM-N8401] 20 p3275 N84-30792
Technical assistance and information dissemination for the appropriate technology small grants program
[DE84-010957] 20 p3313 N84-31042
Index to NASA News Releases and Speeches, 1983
[NASA-TM-85509] 20 p3314 N84-31047
Defense Technical Information Center referral data bank directory
[AD-A138400] 20 p3315 N84-31051
Information Center Complex publications and presentations, 1971-1982
[DE84-010603] 20 p3315 N84-31055
Appropriate technology management information system
[DE84-010952] 20 p3315 N84-31056
Solar Radiation Data Directory: A guide to solar radiation and meteorological data collection activities in the US
[DE84-000095] 20 p3315 N84-31057
MIL-STD-1750A users group
[AD-P003547] 21 p3333 N84-31151
Advanced data structure and geographic information systems 21 p3427 N84-31742
Annotated bibliography of global resources information systems related publications 21 p3428 N84-31746
Guide to computer-based training
[DE84-012244] 21 p3466 N84-31975
Summer faculty fellowship program, 1984
[NASA-CR-172409] 21 p3507 N84-32221
Proceedings of the 5th Interservice-Industry Training Equipment Conference, volume 2
[AD-A142775] 21 p3515 N84-32266
Special features of information presentation in teaching systems
[BLL-M-35604-(5628.4)] 21 p3516 N84-32273
Technology transfer revisited
[DE84-012233] 21 p3519 N84-32293
Key to oceanographic records documentation
[PB84-186360] 21 p3519 N84-32299
Department of Energy's activities to limit distribution of certain unclassified scientific and technical information
[PB84-189158] 21 p3520 N84-32302
Random multiple access methods in multi-user communication systems 22 p3571 N84-32616
Locating and estimating air emissions from sources of acrylonitrile
[PB84-200609] 22 p3619 N84-32934
Locating and estimating air emissions from sources of carbon tetrachloride
[PB84-200625] 22 p3620 N84-32936
ADA (trademark) training curriculum. Basic ADA programming I202 teacher's guide, volume 2
[AD-A143585] 22 p3641 N84-33084
An online directory of databases for material properties
[DE84-013210] 22 p3643 N84-33099
Goals and activities of the National Commission on Libraries and Information Science
[ISSN-0091-2972] 22 p3673 N84-33282
A decade of accomplishment
[ISSN-0091-2972] 22 p3673 N84-33283
European scientific notes, Volume 38, Number 7
[AD-A143238] 22 p3674 N84-33287
Some considerations of the operations of optical imaging space sensors derived from the experience of the metric camera project 23 p3764 N84-33860
Planetary data definition 23 p3841 N84-34367
Configuration and implementation 23 p3842 N84-34369
European scientific notes
[AD-A144223] 24 p3995 N84-35284
INFORMATION FLOW
Effective use of earthquake data
[AD-A134077] 06 p0878 N84-15712
Human factors aspects of C3 systems — command, control, communication (C3)
[PP-119] 13 p2023 N84-23115
Toward a theory of library and information science 13 p2067 N84-23405
Strategies and mechanisms for the diffusion of scientific and technical information: A comparative study 13 p2067 N84-23406
Technology transfer
[H-REPT-98-15] 15 p2419 N84-25528
Universal documentation system handbook - an introduction to the universal documentation system
[AD-A140140] 16 p2455 N84-25742
Trends in data communication by computer networks in space missions
[INPE-3068-PRE/485] 16 p2545 N84-26338
Interactive information environments: A plan for enabling interdisciplinary research
[RAND/N-2115] 22 p3673 N84-33284
The role of information technology in emergency management
[GPO-29-457] 23 p3834 N84-34319
INFORMATION MANAGEMENT
CTX: A system for computer-aided indexing — computer aided text retrieval (CTX)
[BMFT-FB-ID-83-006] 02 p0303 N84-11966
Paperwork Reduction Act amendments of 1983
[H-REPT-98-147] 02 p0303 N84-11989
A study of critical factors affecting the development of performance measures in evaluating bibliographic information retrieval systems 03 p0460 N84-13030

Joint Atomic Information Exchange Group information management project. Task 2 briefing document. System specification and hardware/software purchase recommendations for JAIEG automated information management system
[DE84-001798] 06 p0936 N84-16083
Research report program of the US Army in Europe
07 p0944 N84-16122
EASAMS architecture for management and control systems 06 p1207 N84-17871
Proposed National Technical Information Service revolving fund
[PB84-103076] 08 p1239 N84-18097
Space Station needs, attributes and architectural options. Volume 2, book 2, part 2, Task 2: Information management system
[NASA-CR-173317] 09 p1271 N84-18301
Information systems, security and privacy
[RAND/P-6930] 11 p1747 N84-21402
Action Information Management System (AIMS): A user's view 11 p1748 N84-21405
Automated RTOP management system
11 p1748 N84-21406
Method for accessing distributed heterogeneous databases 11 p1749 N84-21412
Specifications for a federal information processing standard data dictionary system
11 p1749 N84-21414
RIM as an implementation tool for a distributed heterogeneous database 12 p1890 N84-22311
RIM as the data base management system for a material properties data base 12 p1891 N84-22312
A wind tunnel database using RIM
12 p1891 N84-22313
The database management system: A topic and a tool 12 p1891 N84-22316
Defense technical information center cataloging guidelines
[AD-A138500] 12 p1919 N84-22503
Strategies and mechanisms for the diffusion of scientific and technical information: A comparative study
13 p2067 N84-23406
Development of a proposed standard for the exchange of scientific microcomputer programs
[PB84-157940] 14 p2207 N84-24244
Technology transfer
[H-REPT-98-15] 15 p2419 N84-25528
Data acquisition and processing in sea-level test beds
16 p2453 N84-25730
Universal documentation system handbook - an introduction to the universal documentation system
[AD-A140140] 16 p2455 N84-25742
Earthnet: The story of images
[ESA-BR-18] 16 p2509 N84-26102
A study of conference publication records in OCLC: Some implications for the formulation and application of cataloging rules 16 p2566 N84-26464
The design of an expert system for contract price analysis
[AD-A140927] 18 p2943 N84-28682
Applications programs to facilitate use of a DBMS to store and retrieve graphics displays (INGRED 2)
[AD-A138059] 18 p2945 N84-28672
Development of Integrated Programs for Aerospace-vehicle Design (IPAD). IPAD user requirements: Implementation (first-level IPAD)
[NASA-CR-162713] 19 p2963 N84-28776
Information processing for use in the treatment of severely physically handicapped persons
20 p3264 N84-30711
The Optical Coincidence Information Retrieval system (OCIR)
[MPAE-L-66-84-10] 20 p3316 N84-31059
Advanced data structure and geographic information systems 21 p3427 N84-31742
Knowledge based engineering for spatial database management and use 21 p3428 N84-31745
Energy Data Base corporate author entries
[DE84-003877] 21 p3518 N84-32290
OTS (Office of Toxic Substances) Information Architecture Notebook
[PB84-188655] 21 p3520 N84-32301
Department of Energy's activities to limit distribution of certain unclassified scientific and technical information
[PB84-189158] 21 p3520 N84-32302
The administrative window into the integrated DBMS
22 p3671 N84-33270
Interactive information environments: A plan for enabling interdisciplinary research
[RAND/N-2115] 22 p3673 N84-33284
The information network for a real-time controlled data acquisition of the Modular Optoelectronic Multispectral Scanner (MOMS) 23 p3765 N84-33863
European plans for handling off-line tasks of the ERS-1 23 p3784 N84-33997
User's guide for an IBM PL/I implementation of the international standard organization DIS 8211 information processing-specification for a data descriptive file for information interchange
[ORNL/CSD-TM-207] 23 p3814 N84-34188
Sandia National Laboratories administrative data processing systems
[DE84-014328] 23 p3817 N84-34202
Difficulties of scientific and technological planning
[INPE-2786-PRE/352] 23 p3832 N84-34308
On-line edit users manual
[AD-A144021] 23 p3835 N84-34328
Approaches for updating databases with incompleted information and nulls
[AD-A144318] 24 p3989 N84-35130

INFORMATION RETRIEVAL

Communications Support Processor (CSP)
[AD-A130360] 01 p0084 N84-10419
Nationwide computer users' information retrieval system 01 p0118 N84-10767
Artificial intelligence implications for information retreival
[AD-A131382] 02 p0278 N84-11821
Subject categories with scope definitions and limitations
[DE83-008754] 02 p0302 N84-11984
CTX: A system for computer-aided indexing — computer aided text retrieval (CTX)
[BMFT-FB-ID-83-006] 02 p0303 N84-11986
Development of a unique Physical Metrology Laboratory Recall System
[DE83-017415] 03 p0423 N84-12767
The computerization of material safety data sheet information
[AD-A131992] 03 p0459 N84-13021
Information retrieval research support
[AD-A131990] 03 p0459 N84-13022
A study of critical factors affecting the development of performance measures in evaluating bibliographic information retrieval systems 03 p0460 N84-13030
Fire investigation 04 p0510 N84-13344
A program for the automatic request of magnetic tapes filing and reading of its contents (processor PCINTA)
[JEN-545] 04 p0578 N84-13815
Management and display of data analysis environments for large data sets
[DE84-001414] 04 p0616 N84-14069
Computer science and technology: Future information processing technology, 1983
[PB83-257618] 06 p0896 N84-15820
Computer-Output Microfiche (COM) on the Oak Ridge computer network
[DE84-002422] 06 p0899 N84-15836
A new treatment of incomplete information and retrieval in relational data bases 06 p0934 N84-16069
An interactive soils information system. Users manual
[AD-A133480] 06 p0935 N84-16078
Research topics in statistical database management
[DE84-002581] 06 p0935 N84-16080
Operational test and evaluation of the meter engineering development model
[AD-A125166] 07 p1007 N84-16532
Sources generating and reporting numerical and factual data 07 p1086 N84-17062
Extraction and compilation of numerical and factual data 07 p1086 N84-17063
Microfiche Image Transmission System (MITS) demonstration field evaluation of microfacsimile
[AD-A134716] 08 p1145 N84-17450
Problem solving abilities
[AD-A134717] 08 p1202 N84-17840
Thermodynamics library for AFOS (Automation of Field Operations and Services) programmers (THERMO LB)
[PB84-122621] 08 p1215 N84-17925
Proposed National Technical Information Service revolving fund
[PB84-103076] 08 p1239 N84-18097
The program complexity of searching a table
[AD-A135299] 08 p1240 N84-18104
Multidomain, multirecord-type Datatrieve-11 databases
[DE84-001707] 08 p1241 N84-18110
Services for the analysis and evaluation of information
[PB84-104504] 08 p1241 N84-18113
Guide to the bibliographic format used by the Carbon Dioxide Information Center
[DE84-004109] 09 p1280 N84-18361
Workshop on Magnetic Information Technology (MINT)
[PB84-125210] 09 p1319 N84-18619
Functional and database architecture design
[AD-A136275] 09 p1403 N84-19169
Distributed knowledge base systems for diagnosis and information retrieval
[AD-A136577] 09 p1404 N84-19171
The automated information retrieval system in the field of science and science Policy–AWION
[AD-A135565] 09 p1404 N84-19174
Universal relation database systems
[AD-A135707] 09 p1404 N84-19176
Medical subject headings, tree annotations, 1984. Technical notes, Medlars indexing instructions
[PB84-120047] 09 p1405 N84-19181
Guide to the development of a human factors engineering data retrieval system
[AD-A136918] 10 p1554 N84-20187
Benchmarking relational database machines' capabilities in supporting the database administrators' functions and responsibilities
[AD-A137413] 10 p1593 N84-20437
A method for comparing the structure of a discipline to the structure of a bibliographic file for that discipline
10 p1593 N84-20443
Evaluation of document retrievel ranking algorithms
11 p1711 N84-21154
Applications of operations research and management information system concepts to management of large software projects 11 p1718 N84-21204
Enhancing effectiveness of information retrieval systems with relational thesauri 11 p1747 N84-21399
Distributed knowledge base systems for diagnosis and information retrieval
[AD-A137826] 11 p1750 N84-21421
Graphic and visual presentation of aerospace data
11 p1751 N84-21431
Automated document request and delivery systems in the United Kingdom 11 p1752 N84-21436
Managing geometric information with a data base management system 12 p1874 N84-22211
RIM as the data base management system for a material properties data base 12 p1891 N84-22312
Modification to the advanced degree requirements information system
[AD-A138167] 12 p1918 N84-22499
Interactive Hazardous Materials Information System (HMIS): Description and assessment
[AD-A138329] 12 p1919 N84-22500
Information theoretic models of memory in human decisionmaking models
[AD-P002883] 13 p1978 N84-22644
The use of a small digital computer for on-line behavioral experiments
[AD-A138975] 13 p2025 N84-23126
Advanced document retrieval system
[AD-A139385] 14 p2247 N84-24496
Project FIRST (Faculty Information and Research Service for Texas) technical description of project and results
[PB84-161629] 14 p2248 N84-24501
Preserve the sense of Earth from space
[DE84-900854] 15 p2359 N84-25159
Display units for online passage retrieval: A comparative analysis
[DE84-001004] 15 p2395 N84-25369
SIRIUS: Bibliographic search and retrieval system
[INPE-2771-PRE/344] 15 p2417 N84-25512
What's domain skill? Frames in information seeking
[FOA-C-53014-H2] 15 p2417 N84-25515
The MOSIS (MOS implementation) system (What it is and how to use it)
[AD-A139744] 15 p2418 N84-25517
Technology information system: Transcript of typical demonstration
[DE84-009082] 15 p2418 N84-25523
Vehicle concept for a robotic missile launcher
[AD-A141297] 18 p2802 N84-27782
The preparation of the measurements at the PDS at the Padova Observatory: Report on an experience with the development of an astronomical data base environment 18 p2843 N84-28050
Research library goes online: The use of DOBIS/LIBIS at the Sandia Technical Library
[DE84-010265] 18 p2945 N84-28676
Information search in judgment tasks: The effects of unequal cue validity and cost
[AD-A141712] 19 p3063 N84-29437
Communicating between the IBM personal computer and the Wang word processing system
[DE84-010423] 20 p3267 N84-30729
Inductive information retrieval using parallel distributed computation
[AD-A142712] 20 p3314 N84-31050
Defense Technical Information Center referral data bank directory
[AD-A138400] 20 p3315 N84-31051
Common data input-retrieval system
[DE84-010972] 20 p3315 N84-31053
The Optical Coincidence Information Retrieval system (OCIR)
[MPAE-L-66-84-10] 20 p3316 N84-31059

A comprehensive guide to the literature on acoustic emission from composites
[DE84-011064] 21 p3358 N84-31296
Determining the number of signals by information theoretic criteria
[AD-A142748] 21 p3386 N84-31486
Terrain analysis procedural guide for built-up areas (report no. 13 in the ETL (Engineer Topographic Laboratories) series on guides for Army terrain analysts)
[AD-A142918] 21 p3431 N84-31768
Content duplication among documents on specific subjects 21 p3516 N84-32274
The user's mental model of an information retrieval system: Effects on performance 21 p3516 N84-32275
Page indexing for textual information retrieval systems 21 p3517 N84-32277
A non-first-normal-form relational database model 21 p3517 N84-32280
Energy Data Base corporate author entries
[DE84-003877] 21 p3518 N84-32290
NLM (National Library of Medicine) Online Services Reference Manual: Supplement
[PB84-186808] 21 p3520 N84-32300
An evaluation of two reliability and maintainability information systems
[AD-A143438] 22 p3674 N84-33290
Adaptive subject description in document retrieval 22 p3675 N84-33298
Retrieval for remote sensing image data base with multimedia user interface 23 p3766 N84-33870
NASA RECON: Course development, administration, and evaluation
[NASA-CR-173922] 23 p3834 N84-34318
Source header list, supplement 2
[AD-A143800] 23 p3835 N84-34325

INFORMATION SYSTEMS
NT ATMOSPHERIC & OCEANOGRAPHIC INFORM SYS
NT GEOGRAPHIC INFORMATION SYSTEMS
NT INTEGRATED LIBRARY SYSTEMS
NT MANAGEMENT INFORMATION SYSTEMS
NT NUMERICAL DATA BASES
China report: Science and technology, no. 208
[JPRS-84474] 01 p0118 N84-10766
Nationwide computer users' information retrieval system 01 p0118 N84-10767
TIS (Technology Information System): A focal point for technology transfer
[AD-A130798] 01 p0161 N84-11060
The use and value of Defense Technical Information Center products and services
[AD-A130805] 01 p0161 N84-11061
Downloading and post-processing of bibliographic information with the TIS (Technology Information System) intelligent gateway computer
[AD-A130800] 01 p0162 N84-11062
Proceedings of the 1982 Integrated Data Users Workshop
[DE83-014761] 01 p0162 N84-11066
Thermophysical properties for synthetic fuels
[DE83-016588] 02 p0191 N84-11239
Development of a data base for carbon dioxide releases resulting from conversion of land to agricultural uses
[DE83-015728] 03 p0402 N84-12626
The computerization of material safety data sheet information
[AD-A131992] 03 p0459 N84-13021
Information resources management plan
[AD-A131964] 03 p0459 N84-13023
Source header list, supplement 1
[AD-A131800] 03 p0459 N84-13024
Information processing for the infrared balloon telescope Goldener Drache
[MPE-38] 03 p0461 N84-13035
Fiber composite materials research in the UK: Assessment report
[AD-A132386] 04 p0492 N84-13226
Fire investigation 04 p0510 N84-13344
On the interactions of incentive and information structures
[DE83-012084] 04 p0616 N84-14065
TIS: An intelligent gateway computer for information and modeling networks. Overview
[DE83-017986] 04 p0616 N84-14067
Information systems design in construction management 05 p0717 N84-14898
Data dictionary model for relational databases
[DE84-002584] 05 p0759 N84-14981
Effective use of earthquake data
[AD-A134077] 06 p0878 N84-15712
Appraisal of scientific resources for emergency management
[AD-A133285] 06 p0933 N84-16062
A new treatment of incomplete information and retrieval in relational data bases 06 p0934 N84-16069
The perceptual component of relationships in library networks 06 p0934 N84-16070
Local automation model: Functional description
[AD-A133389] 06 p0935 N84-16077
An interactive soils information system. Users manual
[AD-A133480] 06 p0935 N84-16078
Joint Atomic Information Exchange Group information management project. Briefing outlining functions and specifications of JAIEG automated information management system
[DE84-001800] 06 p0936 N84-16082
Joint Atomic Information Exchange Group information management project. Task 2 briefing document. System specification and hardware/software purchase recommendations for JAIEG automated information management system
[DE84-001798] 06 p0936 N84-16083
Interrange scheduling and Universal Documentation System (UDS) document development and transmission
[AD-A134396] 07 p0961 N84-16230
Reports on cartography and geodesy, series 1: Original reports, no. 89
[ISSN-0469-4236] 07 p1018 N84-16602
RSAW: A computer program for processing and presentation of geographic information
[FOA-C-20473-D8(F8)] 07 p1085 N84-17057
Information technique 1982: Underwater technique
[FOA-C-30296-E1,E2,E3] 07 p1085 N84-17058
A method of measurement of behavioral factors affecting information systems design and use: An application of multidimensional scaling in uncovering individual psychological structure 08 p1239 N84-18099
Scientific and technical information system for the Washington State Legislature
[PB84-100850] 08 p1241 N84-18112
Services for the analysis and evaluation of information
[PB84-104504] 08 p1241 N84-18113
Data and analysis center for software: An IAC in transition
[AD-A135985] 09 p1389 N84-18936
Functional and database architecture design
[AD-A136275] 09 p1403 N84-19169
Design of office information systems
[AD-A136523] 09 p1404 N84-19170
The automated information retrieval system in the field of science and science Policy--AWION
[AD-A135585] 09 p1404 N84-19174
User's manual for the DOE Technical Information Center Integrated Record Input System (IRIS)
[DE83-013074] 09 p1405 N84-19178
Guide to the development of a human factors engineering data retrieval system
[AD-A136918] 10 p1554 N84-20187
Dialogue management: New concepts in human-computer interface development
[AD-A136945] 10 p1555 N84-20190
Videodisc premastering facility: Technical evaluation
[PB84-135821] 11 p1661 N84-20840
Water level measurement network computer file
[DE84-005388] 11 p1672 N84-20909
DBMS as a tool for project management 11 p1749 N84-21416
Use of DBMS in multi-step information systems for LANDSAT 11 p1749 N84-21417
Where to find it. Information resource centers, A quick reference booklet
[AD-A133117] 11 p1750 N84-21419
Medlars indexing instructions, tumar key supplement, 1984 (Technical Notes)
[PB84-120039] 11 p1750 N84-21424
Open systems interconnection for the defence community 11 p1750 N84-21426
The iNet Gateway trial 11 p1750 N84-21427
Sharing command languages and software 11 p1751 N84-21428
The application of management techniques to defence and other information services: The British approach 11 p1751 N84-21433
Management of aerospace contract documentation by industry and government 11 p1752 N84-21434
Computer-based conferencing 11 p1752 N84-21435
The Shock and Vibration Digest, volume 16, no. 2
[AD-A139096] 12 p1821 N84-21874
Management of CAD/CAM information: Key to improved manufacturing productivity 12 p1889 N84-22300
Concerted effort for nationwide computer literacy 12 p1897 N84-22357
Optical Information Processing for Aerospace Applications 2
[NASA-CP-2302] 12 p1904 N84-22402
A hybrid silicon membrane spatial light modulator for optical information processing 12 p1905 N84-22408
Modification to the advanced degree requirements information system
[AD-A138167] 12 p1918 N84-22499
Interactive Hazardous Materials Information System (HMIS): Description and assessment
[AD-A138329] 12 p1919 N84-22500
Defense technical information center cataloging guidelines
[AD-A138500] 12 p1919 N84-22503
Graphic design for computer-based information management: A case study of Seedis
[DE84-005873] 12 p1919 N84-22505
An evaluation of ARIADNE (alternative ranking interactive aid based on dominance structure information elicitation)
[AD-P002891] 13 p1980 N84-22852
A man-machine interface concept for a state-of-art, shipboard, command/control console
[AD-P002894] 13 p1980 N84-22854
Multi-sensor fusion, communications and information warfare
[AD-P002895] 13 p1980 N84-22855
The design of information structures: Basic allocation strategies for organizations
[AD-P002909] 13 p1981 N84-22861
The microcomputer in the acquisition environment
[AD-P002748] 13 p2049 N84-23295
Toward a theory of library and information science 13 p2067 N84-23405
Honeywell Information Systems, DPS 8/49, (8)BA2.3 BASIC compiler
[PB84-157296] 14 p2207 N84-24247
Project FIRST (Faculty Information and Research Service for Texas) technical description of project and results
[PB84-161629] 14 p2248 N84-24501
Activities report of the Laboratory for Computer Science (FOA 32)
[FOA-C-30356-E1] 15 p2388 N84-25326
Interactive computer program VISION 4 (visual information system interactive online for FOA 4) for plotting and data analysis
[FOA-C-40182-A3,B2,C2] 15 p2390 N84-25342
What's domain skill? Frames in information seeking
[FOA-C-53014-H2] 15 p2417 N84-25515
Technology information system: Transcript of typical demonstration
[DE84-009082] 15 p2418 N84-25523
Integration of LANDSAT land cover data into the Saginaw River basin geographic information system for hydrologic modeling
[AD-A140185] 16 p2510 N84-26106
Activities report of the Computer Department
[ENST-D-8303] 16 p2542 N84-26314
The Pilot Land Data System: Report of the Program Planning Workshops
[NASA-TM-86250] 16 p2566 N84-26469
Final network: Objectives, scopes, benefits
[MBB-UR-670-83-O] 16 p2567 N84-26489
Report on U.S. domestic and international telecommunications and information markets
[PB84-166362] 17 p2772 N84-27602
User-system interface design in system acquisition
[AD-A140956] 18 p2943 N84-28664
Systems development and applications software in medical facilities
[AD-A141306] 18 p2945 N84-28674
Integrated Record Input System (IRIS) for the DOE/Technical Information Center
[DE84-008494] 18 p2945 N84-28675
Research library goes online: The use of DOBIS/LIBIS at the Sandia Technical Library
[DE84-010265] 18 p2945 N84-28676
System 2000 to dBASE 2 and back again
[DE84-008031] 18 p2945 N84-28677
DOE workshop on computer-aided engineering: Abstracts
[DE84-001064] 19 p3079 N84-29538
Application of asymptotic methods of theoretical computer science and combinatorics to problems in the design of VLSI circuits
[AD-A142262] 19 p3090 N84-29617
A system dynamics approach to measuring the value of information
[AD-A141051] 19 p3115 N84-29794
Local automation model: System specification
[AD-A141503] 19 p3116 N84-29796
Acoustical communications by means of small explosive charges
[DE84-008903] 20 p3175 N84-30161
Earth Observing System, conclusions and recommendations 20 p3219 N84-30454
Remote sensing and the private sector: Issues for discussion
[PB84-160777] 20 p3229 N84-30520
Operator performance on flat-panel displays with line and cell failures
[AD-A142340] 20 p3265 N84-30716

Guidelines for contingency planning NASA (National Aeronautics and Space Administration) ADP security risk reduction decision studies
[PB84-189836] 20 p3268 N84-30737
Information Center Complex publications and presentations, 1971-1982
[DE84-010603] 20 p3315 N84-31055
Appropriate technology management information system
[DE84-010952] 20 p3315 N84-31056
The Optical Coincidence Information Retrieval system (OCIR)
[MPAE-L-66-84-10] 20 p3316 N84-31059
Inventory of numeric data for carbon dioxide research, revision 1
[DE84-013683] 21 p3449 N84-31661
Automatic audit information system for software development
[AD-P003499] 21 p3515 N84-32265
Page indexing for textual information retrieval systems
21 p3517 N84-32277
Energy Data Base. Serial titles with ISSN listing
[DE84-003876] 21 p3518 N84-32289
OTS (Office of Toxic Substances) Information Architecture Notebook
[PB84-186655] 21 p3520 N84-32301
A geographic information system for regional hydrologic modeling 22 p3613 N84-32891
Design, test, and evaluation of an Air Force environmental model and data exchange
[AD-A143226] 22 p3638 N84-33060
IBM's token-ring LAN (Local-Area Network): A base-level communications solution
[AD-A143446] 22 p3638 N84-33063
An online directory of databases for material properties
[DE84-013210] 22 p3643 N84-33099
The role of the state library agency in the future: A Delphi study 22 p3669 N84-33258
Implementing automated information systems in the Air Force
[AD-A143398] 22 p3674 N84-33286
Solar-terrestrial data access distribution and archiving
[NASA-CR-173906] 22 p3675 N84-33295
Insolation assessment studies
[DE84-004523] 23 p3798 N84-34084
NASA RECON: Course development, administration, and evaluation
[NASA-CR-173922] 23 p3834 N84-34318
The role of information technology in emergency management
[GPO-29-457] 23 p3834 N84-34319
The simulation of a major Automated Information System (AIS) on a microcomputer
[AD-A143599] 23 p3834 N84-34323
Source header list, supplement 2
[AD-A143600] 23 p3835 N84-34325
DTIC 2000: A corporate plan for the future
[AD-A143900] 23 p3835 N84-34327
Decision rules applied to spread spectrum signal detection
[AD-A144253] 24 p3894 N84-34661
Research and development support for the Center for Seismic Studies
[AD-A144442] 24 p3920 N84-34813
Development of the Centralized Storm Information System (CSIS) for use in severe weather prediction
24 p3932 N84-34890
Report of the Information Technology Workshop
[AD-A144212] 24 p3968 N84-35126
Information systems: The challenge of the future for the Air Force Communications Command
[AD-A144277] 24 p3969 N84-35129
Comparative analysis of government and private sector ADP acquisition
[AD-A144523] 24 p3969 N84-35131

INFORMATION THEORY

Proceedings of the 18th Annual Conference on Manual Control
[AD-A131256] 01 p0118 N84-10763
A data compressor system
[INPE-2847-PRE/389] 02 p0270 N84-11766
Information loss caused by noise in models for dichotomous items
[AD-A131369] 02 p0280 N84-11834
Applications of Hilbert space theory to optimal and adaptive space-time processing
[AD-A131401] 02 p0286 N84-11876
Measuring landscape information content and distribution on a SAR-580 image
03 p0397 N84-12596
GRIDPACK: Toward unification of general grid programming
[AD-A131692] 03 p0420 N84-12746
Using structural and functional information in diagnostic design
[AD-A131659] 03 p0423 N84-12769
Cognitive components underlying the digit symbol test
[PB83-250464] 04 p0574 N84-13779
A comparative study of the factors linking psychology and information science 04 p0616 N84-14063
Distributed hypothesis formation in distributed sensor networks
[AD-A133849] 05 p0731 N84-14802
The determination of user information requirements during the development of management information systems
[AD-A132998] 05 p0759 N84-14980
Performance characteristics of passive coherence estimators
[AD-A133209] 06 p0829 N84-15396
Exploiting temporal knowledge to organize constraints
[AD-A133417] 06 p0899 N84-15838
Maximum entropy linear prediction method
[FUB-48-1982] 06 p0902 N84-15857
Linear prediction methods — signal processing
[FUB-52-1982] 06 p0902 N84-15858
Nyquist frequency
[AD-A135023] 08 p1144 N84-17440
Comparison of the information content of data from the LANDSAT 4 Thematic Mapper and the multispectral scanner
[E84-10081] 08 p1173 N84-17641
Reasoning in multiple belief spaces
08 p1210 N84-17894
Mutual adaptiveness of man and machine in information acquisition tasks
[AD-A135449] 08 p1216 N84-17932
Joint services electronics program
[AD-A136058] 09 p1309 N84-18559
Convergence theories of distributed iterative process: A survey
[AD-A135875] 09 p1382 N84-19027
Computing theory and practice
09 p1403 N84-19167
Fundamental issues of multiple accessing
[AD-A136676] 10 p1481 N84-19675
Computation of the Wyner-Ziv rate distortion function
[EUT-83-E-140] 10 p1484 N84-19699
The event related brain potential as an index of information processing, cognitive activity, and skill acquisition: A program of basic research
[AD-A137779] 11 p1702 N84-21100
Distributed knowledge base systems for diagnosis and information retrieval
[AD-A137828] 11 p1750 N84-21421
Shannon: Theory and cryptography
[NLR-MP-82053-U] 12 p1808 N84-21788
Information processing and decisionmaking organizations: A mathematical description
[AD-P002878] 13 p1978 N84-22839
Information theoretic models of memory in human decisionmaking models
[AD-P002883] 13 p1978 N84-22844
The effects of a spatial information format on decision making performance in a C3 (Command, Control, and Communications) probabilistic information integration task
[AD-P002887] 13 p1979 N84-22848
A knowledge based interactive procedure for planning and decision support under uncertainty and parameter imprecision
[AD-P002890] 13 p1979 N84-22851
An evaluation of ARIADNE (alternative ranking interactive aid based on dominance structure information elicitation)
[AD-P002891] 13 p1980 N84-22852
Informational aspects of a class of subjective games of incomplete information
[AD-P002910] 13 p1981 N84-22862
Toward a theory of library and information science
13 p2067 N84-23405
Strategies and mechanisms for the diffusion of scientific and technical information: A comparative study
13 p2067 N84-23406
Report of the Information Technology Workshop
[PB84-163203] 14 p2248 N84-24500
Study on spectral/radiometric characteristics of the Thematic Mapper for land use applications
[E84-10130] 15 p2357 N84-25140
A generalized class of certainty and information measures
[NLR-MP-82038-U] 15 p2397 N84-25379
A problem in the optimal control of queueing workloads for the M/G/1 file
[INPE-3106-PRE/505] 16 p2546 N84-26339
Research activities in advanced techniques
16 p2565 N84-26456
A microprocessor-based control system for the Vienna PDS microdensitometer 18 p2841 N84-28037
The limits of multiple resource theory in display formatting: Effects of task integration
[AD-P003321] 18 p2910 N84-28457
Criteria for efficiency of experiments in remote sensing
19 p2978 N84-28676
A method for constructing a unimodal inferential or prior distribution
[AD-A141389] 19 p3083 N84-29566
Capacity of generalized mismatched Gaussian channels
[AD-A141399] 19 p3083 N84-29569
Pareto-optimality, efficiency analysis and empirical production functions
[AD-A141768] 19 p3088 N84-29601
A system dynamics approach to measuring the value of information
[AD-A141051] 19 p3115 N84-29794
Policy implications of information technology
[PB84-183219] 20 p3316 N84-31060
Determining the number of signals by information theoretic criteria
[AD-A142748] 21 p3386 N84-31486
Visual perception in systems management in aeronautics 22 p3632 N84-33017
A study of the extent of automation in small college libraries and relationships of attitudes of library directors toward it 22 p3670 N84-33260
Detection-filter representations for Markov jump diffusions
[NLR-TR-82019-U] 23 p3820 N84-34226
Decentralized system theory
[DE84-013658] 23 p3820 N84-34227
Detecting camouflaged targets: Theory into practice
24 p3914 N84-34784
Information-theoretic non-parametric unimodal density estimation
[AD-A144522] 24 p3953 N84-35035

INFORMATION TRANSFER

Strengthening small business participation in Department of Defense extramural research and development
[AD-P002832] 13 p2063 N84-23377
Ingres to dBASE and financial spreadsheet program packages
[AD-A139626] 15 p2391 N84-25351
A sociotechnical communications model for command and control
[AD-P003238] 18 p2902 N84-28405
Application of 1553B to MRASM (Medium Range Air to Surface Missile): A systems look
[AD-P003540] 21 p3332 N84-31144
Embedded information transfer technology assessment
[AD-A142649] 21 p3391 N84-31518
An exploratory analysis of the relationship between media richness and managerial information processing
[AD-A143503] 22 p3674 N84-33293
Selection of data from busses for test
[AD-D011160] 23 p3813 N84-34176

INFORMATION TRANSMISSION

U DATA TRANSMISSION

INFRARED ABSORPTION

Amorphous silicon-carbon films
[DE83-018077] 03 p0347 N84-12259
Optical properties of the marine aerosol as predicted by a BASIC version of the Navy aerosol model
[AD-A132411] 04 p0604 N84-13986
Atom-jump versus continuous models for fast ion conduction 11 p1741 N84-21357
Experiments on chemical and physical evolution of interstellar grain mantles 16 p2570 N84-26495
Quenched Carbonaceous Composite (QCC): A likely candidate for interstellar grains
16 p2571 N84-26501
Observations of the interstellar ice grain feature in the Taurus molecular clouds 18 p2948 N84-28691
The 3 micron ice band — interstellar absorption
18 p2948 N84-28692
Spectroscopy of the 3.3 and 3.4 micron dust emission features — cosmic dust 18 p2948 N84-28694
The behaviour of the 3.28 micron dust feature in NGC 2024 18 p2949 N84-28696
The 3.3 micron mapping of NGC 7027
18 p2949 N84-28697
Origins of the 3.28 micron dust emission feature
18 p2949 N84-28698
Quenched Carbonaceous Composite (QCC): A likely candidate for interstellar grains
18 p2949 N84-28699
Trace constituents measurements deduced from spectrometric observations onboard Spacelab
[AERONOMICA-ACTA-A-286-1984]
20 p3239 N84-30565

Stratospheric NO and NO2 profiles at sunset from analysis of high-resolution balloon-borne infrared solar absorption spectra obtained at 33 deg N and calculations with a time-dependent photochemical model
[NASA-TM-86285] 20 p3240 N84-30566
Infrared absorption spectrum of free carriers in poter semiconductors
[DE84-013276] 22 p3667 N84-33248

INFRARED ASTRONOMY
Infrared observations of cometary solids
02 p0304 N84-11997
Measurement of atmospheric moisture and extinction coefficient in the near infrared at Cima Ekar
[IFSI-83-6] 05 p0762 N84-14999
A report on superfluid helium flow through porous plugs for space science applications 06 p0930 N84-16043
Submillimeter astronomy at the NASA/University of Hawaii 3-meter infrared telescope facility
[NASA-CR-173269] 07 p1089 N84-17083
Thermal design of Infrared Space Observatory (ISO) payload dual cooling 10 p1442 N84-19417
Detection of extrasolar planets by the large deployable reflector
[NASA-TM-85874] 11 p1757 N84-21471
The plumes of IO: A detection of solid sulfur dioxide particles
[NASA-CR-175414] 12 p1922 N84-22523
Far-IR spectroscopy of the galactic center: Neutral and ionized gas in the central 10 pc of the galaxy
[NASA-CR-166510] 13 p2070 N84-23411
Infrared astronomy research and high altitude observations
[NASA-CR-173526] 13 p2070 N84-23413
Publications resulting from Infrared Astronomy Research and High Altitude Observations
[NASA-CR-173525] 13 p2070 N84-23414
Activities report of the Institute of Extraterrestrial Physics
[MPE-181] 15 p2423 N84-25557
Far infrared supplement: Catalog of infrared observations
[NASA-RP-1119] 16 p2574 N84-26519
Catalog of infrared observations including: Bibliography of infrared astronomy and index of infrared source positions
[NASA-RP-1118] 16 p2574 N84-26520
Detection of shocked atomic gas in the Kleinmann-Low nebula
[NASA-TM-85967] 16 p2574 N84-26523
The energetics and mass structure of regions of star formation
[NASA-TM-85953] 16 p2575 N84-26525
The nature of AFGL 2591 and its associated molecular outflow: Infrared and millimeter-wave observations
[NASA-TM-85963] 16 p2575 N84-26526
Stray light analysis of the Diffuse Infrared Background Experiment (DIRBE)
[NASA-CR-175225] 16 p2575 N84-26529
Advanced components for spaceborne infrared astronomy
[NASA-CR-166585] 17 p2671 N84-27025
Astronomical application of IR CID technology
[NASA-CR-166584] 18 p2844 N84-28057
Laboratory and observational infrared spectra of interstellar dust — conferences
[ROE-OR-12] 18 p2947 N84-28683
Long wavelength photoconductive detectors for airborne and orbital infrared astronomy
[NASA-CR-166586] 19 p3026 N84-29192
Activities in astronomy
[ISSN-0531-4496] 20 p3319 N84-31067
Large Deployable Reflector Science and Technology Workshop. Volume 3: Systems and Technology Assessment
[NASA-CP-2275-VOL-3] 21 p3523 N84-32318
Large Deployable Reflector Science and Technology Workshop. Volume 3: Systems and technology assessment. Introduction 21 p3523 N84-32319
Technology Panel reports 21 p3523 N84-32320
Large Deployable Reflector Science and Technology Workshop. Volume 3: Systems and technology assessment. Conclusions 21 p3523 N84-32321
A cryogenically cooled, multidetector spectrometer for infrared astronomy
[NASA-TM-86004] 23 p3840 N84-34359
Conceptual design of a hybrid Ge:Ga
[NASA-CR-166605] 24 p3902 N84-34708
Coordinated X-ray, ultraviolet, optical, and infrared observations of the transient source A0535+26 — X ray source 24 p3981 N84-35219

INFRARED ASTRONOMY SATELLITE
NASA Facts: IRAS - Mapping the Infrared Sky
[NASA-FACTS-139] 03 p0461 N84-13036
Reliability and flexibility of the Infrared Astronomical Satellite (IRAS) on-board software
05 p0724 N84-14756
Verification and validation of Infrared Astronomical Satellite (IRAS) on-board software
05 p0725 N84-14757
Software flexibility ensured success of Dutch Astronomical Netherlands Satellite (ANS) and Infrared Astronomical Satellite (IRAS) satellites
05 p0725 N84-14758
Infrared Astronomical Satellite (IRAS) end-to-end data system 05 p0725 N84-14763
JPL closeup
[NASA-CR-175324] 06 p0793 N84-15168
Thermal design and performance of the IRAS spacecraft system 10 p1441 N84-19415
One year of stars, provided by the IRAS cryogenic system 10 p1442 N84-19416
Reprogrammable onboard mission of IRAS
[NLR-MP-83014-U] 13 p1937 N84-22600

INFRARED DETECTORS
NT FLIR DETECTORS
Civil applications of infrared techniques
[BMFT-FB-T-83-132] 02 p0267 N84-11753
Photoconductor fabrication for operation in the thermal infrared — lead tin telluride
[INPE-2835-PRE/364] 02 p0298 N84-11952
Predevelopment of IR-CCD components
[BMFT-FB-T-83-133] 03 p0456 N84-13001
Spatial filtering for enhancing point targets in images from a space-based mosaic IR detector
[AD-A132248] 04 p0521 N84-13425
The aircraft infrared measurements guide
[AD-A132598] 05 p0747 N84-14905
On 3He bolometer systems
[NASA-CR-175325] 06 p0848 N84-15520
LANDSAT-4 horizon scanner performance evaluation
[E84-10079] 07 p1022 N84-16626
Assessment of the potential of Langmuir-Blodgett films for room temperature IR (infrared) detectors
[AD-A134816] 08 p1161 N84-17561
Chinese journal of infrared research (Selected articles)
[AD-A135504] 08 p1232 N84-18051
Cost and performance analysis of visual and sensor simulation systems using Defense Mapping Agency data bases
[AD-A135955] 09 p1259 N84-18220
Infrared devices for control applications
[BMFT-FB-T-83-247] 10 p1579 N84-20349
A comparison of signal-to-noise ratios for near-infrared detectors
[AD-A136127] 12 p1907 N84-22426
Techniques of flash radiometry
[AD-A136412] 12 p1908 N84-22427
Research and development on high sensitivity infrared detectors, phase 3, VQM
[BMFT-FB-W-83-032] 12 p1909 N84-22436
Signal processing circuit development
[AD-A136648] 13 p1982 N84-22870
Infrared temperature measurements in combustion systems
[PNR-90170] 13 p1994 N84-22942
First infrared radiation detector
14 p2136 N84-23805
High value target modeling for tactical decision aids
[AD-P002953] 14 p2199 N84-24193
Effect of space exposure on pyroelectric infrared detectors (A0135) 15 p2278 N84-24679
ACOSS eleven (Active Control Of Space Structures), volume 1
[AD-A140025] 15 p2282 N84-24703
Study on critical assessment of IR CCD arrays for spaceborne reflected and thermal IR imagers
[ESA-CR(P)-1881] 17 p2616 N84-26744
Advanced components for spaceborne infrared astronomy
[NASA-CR-166585] 17 p2671 N84-27025
Fire detection using the NOAA (National Oceanic and Atmospheric Administration)-series satellites
[PB84-176890] 17 p2722 N84-27324
Astronomical application of IR CID technology
[NASA-CR-166584] 18 p2844 N84-28057
Integrating IR detector imaging systems
[NASA-CASE-NPO-15805-1] 18 p2932 N84-28590
Long wavelength photoconductive detectors for airborne and orbital infrared astronomy
[NASA-CR-166586] 19 p3026 N84-29192
The advantages of sounding with the smaller detectors of the VISSR atmospheric sounder
[NOAA-TM-NESDIS-6] 20 p3240 N84-30571
Development of a transimpedance amplifier for cryotemperatures, study — high sensitivity infrared detectors
[BMFT-FB-W-84-023] 21 p3407 N84-31610
Passive line-of-sight stabilization for an infrared sensor
[AD-A143305] 22 p3599 N84-32792
A model of the performance characteristics of silicon-gallium infrared detectors for low background applications
[AD-A143932] 23 p3825 N84-34256

INFRARED FILTERS
New materials for infrared transmitting electrooptic filters
[AD-A139272] 14 p2224 N84-24349
Exposure to space radiation of high-performance infrared multilayer filters and materials technology experiments (A0056) 15 p2277 N84-24678
An investigation into polymer design and synthesis for infrared energy absorption
[AD-A141265] 18 p2818 N84-27895

INFRARED HORIZON SCANNERS
U HORIZON SCANNERS
U INFRARED SCANNERS

INFRARED IMAGERY
Optical pattern recognition for missile guidance
[AD-A130097] 01 p0018 N84-10113
Structure of the Saint Francois Mountains and surrounding lead belt, south east Missouri: Inferences from thermal IR and other data sets
[E84-10027] 01 p0099 N84-10645
Use of thermal inertia determined by HCMM to predict nocturnal cold prone areas in Florida
[E84-10005] 02 p0235 N84-11546
Noise reduction and segmentation of IR images using CO-median filters
[RSRE-MEMO-3582] 03 p0366 N84-12378
Rain estimation from satellites: An examination of the Griffith-Woodley technique
[NASA-TM-84969] 04 p0568 N84-13735
The Heat Capacity Mapping Mission (HCMM) anthology
[E84-10051] 05 p0695 N84-14563
Introduction: Historical perspective on the HCMM program 05 pJ695 N84-14564
Principles of thermal remote sensing
05 p0695 N84-14565
Interpretation of HCMM images: A regional study
05 p0696 N84-14566
The HCMM system: Development and performance
05 p0696 N84-14570
An assessment of the benefits of using infrared thermography to measure the temperature of discrete electronic components operating in a vacuum
[AD-A134350] 07 p0997 N84-16465
Application of Heat Capacity Mapping Mission data to regional geologic analysis for mineral and energy resource evaluation
[E84-10078] 07 p1021 N84-16625
The Grand Banks experiment: A satellite/aircraft/ship experiment to explore the ability of specialized radars to define ocean fronts
[AD-A136181] 09 p1304 N84-18522
Comparison of the cloud top heights evaluated from GMS infrared image with the heights reported by air-line pilots, part 2 09 p1348 N84-18797
LINUS, a line-selective equipment for AGA thermovision
[FOA-C-30348-E4] 10 p1500 N84-19902
A system for receiving and analyzing meteorological satellite data at small meteorological/oceanographic centres or aboard ship
[AD-A137215] 10 p1540 N84-20088
Image dissector camera system study
[NASA-CR-171759] 11 p1656 N84-20606
Boundary values of parameters and perspectives for the development of sensors for thermal imaging equipment
[AD-A137185] 11 p1732 N84-21297
Estimating monthly rainfall from geostationary satellite imagery over Amazonia, Brazil 13 p2016 N84-23069
High value target modeling for tactical decision aids
[AD-P002953] 14 p2199 N84-24193
Maps of favorable areas for tuna fishing to the South and Southeast of Brazil prepared from SMS-2 satellite data
[INPE-3102-PRE/501] 16 p2532 N84-26256
Spatial image processing masks from frequency domain specifications
[AD-P003126] 16 p2534 N84-26267
Study on critical assessment of IR CCD arrays for spaceborne reflected and thermal IR imagers
[ESA-CR(P)-1881] 17 p2616 N84-26744
Variations in surface current off the coasts of Canada as inferred from infrared satellite imagery
17 p2719 N84-27305
Seeker systems simulation, present capability and future technology 21 p3350 N84-31254
Applications of the AVE-SESAME data sets to mesoscale studies
[NASA-CR-3819] 21 p3446 N84-31866
Atmospheric propagation effects on infrared radars
[AD-A143196] 22 p3576 N84-32651

Quantitative analysis of satellite infrared imagery using digital storage equipment
[INPE-2978-PRE/440] 22 p3639 N84-33074
An explanation of the revised DVORAK technique for estimating tropical cyclone intensity using satellite cloud imagery and some results of its application to two 1982 storms 24 p3921 N84-34820
Severe storm initiation and dvelopment from satellite infrared imagery and Rawinsonde data 24 p3929 N84-34872
Mesoscale analysis of VAS 6.7 micron image data for several case studies 24 p3930 N84-34873

INFRARED INSPECTION
Feasibility of thermal NDE methods for Naval thermal spray coatings
[DE84-001463] 06 p0855 N84-15569
Infrared ellipsometer method for determination of parameters of thin epitaxial structures with buried layer: Specimens with dull inactive surface 21 p3379 N84-31446

INFRARED INSTRUMENTS
NT FLIR DETECTORS
NT INFRARED DETECTORS
NT INFRARED SCANNERS
NT INFRARED SPECTROMETERS
NT INFRARED SPECTROPHOTOMETERS
Calculation of atmospheric transmittance by IBM 3033 computer code LOWTRAN IIIB
[AD-A132123] 04 p0804 N84-13989
Boundary values of parameters and perspectives for the development of sensors for thermal imaging equipment
[AD-A137185] 11 p1732 N84-21297
A study of precipitation occurrence using visual and infrared satellite data
[AD-A141012] 18 p2889 N84-28338

INFRARED LASERS
The effects of atmospheric water vapor absorption on infrared laser propagation in the 5 micrometer band
[AD-A130788] 01 p0067 N84-10566
Laser journal (selected articles)
[AD-A131866] 03 p0379 N84-12465
Infrared-laser spectroscopy using a long-pathlength absorption cell
[DE83-014197] 03 p0381 N84-12480
Parametric study of optically pumped far-infrared waveguide lasers, part 1. Theory and experiment of folded Fabry-Perot quasi-optical ring resonator diplexer 05 p0687 N84-14515
Long wavelength InGaAsP/InP lasers and optoelectronic integration 08 p1163 N84-17573
Modeling study of a CW HF resonance transfer laser medium
[AD-A134866] 08 p1164 N84-17580
Optical scintillation statistics for infrared ground-to-space laser communication systems
[AD-A136607] 09 p1299 N84-18495
The role of phonons in the excitation and relaxation of adspecies
[AD-A137066] 10 p1455 N84-19504
Spectroscopic investigations of materials for tunable infrared lasers
[AD-A138324] 12 p1821 N84-21869
The development of a new class of holographic materials
[AD-A140296] 16 p2496 N84-26017
Operating conditions for the Hydrogen/Deuterium triplet lasers
[AD-A141388] 19 p3029 N84-29210
CO2 gamma 3 fundamental band 4.5 micrometers laser potential
[AD-A142536] 20 p3148 N84-29991
Visible and near-infrared dissociation lasers
[AD-A143295] 22 p3601 N84-32807
Laser remote sensing measurements of natural target reflectivities 23 p3782 N84-33983
Demonstration of an active airborne IR laser system for geologic remote sensing 23 p3782 N84-33984
Receiver concepts for data transmission at 10 microns — between satellites 24 p3905 N84-34732
Wind measurement with coherent laser radar at 10 microns 24 p3907 N84-34750

INFRARED MASERS
U INFRARED LASERS

INFRARED PHOTOGRAPHY
NT COLOR INFRARED PHOTOGRAPHY
A gallery of HCMM images 05 p0696 N84-14567
Comparisons of Naval Air Station, NOWRA oceanographic analyses with independently obtained ship and satellite data
[AD-A136462] 10 p1526 N84-19664

INFRARED RADAR
Radar and infrared remote sensing of terrain, water resources, arctic sea ice, and agriculture 06 p0668 N84-15651
Optical propagation and communication 22 p3603 N84-33355

INFRARED RADIATION
NT FAR INFRARED RADIATION
NT NEAR INFRARED RADIATION
Atmospheric infrared backscatter:: Summary of present knowledge and recommendations for future work
[PB83-222281] 01 p0106 N84-10690
Atmospheric IR transmission data for a temperate maritime environment
[AD-A131035] 01 p0147 N84-10968
Energy partitioning to product translation in the infrared multiphoton dissociation of diethyl ether
[AD-A131555] 02 p0226 N84-11482
Numerical experiments on the formation and maintenance of cirriform clouds 02 p0252 N84-11649
Absolute collisional excitation cross section measurements using crossed molecular beams
[AD-A132038] 03 p0432 N84-12830
Novel techniques for enhanced reflectivity infrared mirrors
[AD-A131924] 03 p0441 N84-12894
Mesoscale moisture fields retrieved from satellite infrared radiances in nocturnal inversion cases 05 p0705 N84-14629
Review of calculations of extinction for visible and infrared wavelengths in rain
[AD-A132659] 05 p0747 N84-14906
Visible and infrared continuum spectropolarimetric observations of ten OB supergiant and O emission line stars 05 p0782 N84-14995
Design of an adiabatic demagnetization refrigerator for studies in astrophysics 06 p0621 N84-15352
Accurate evaluation of homogenous and nonhomogeneous gas emissivities
[NASA-CR-173307] 09 p1277 N84-18340
Development of a spacecraft infrared test technique as an alternative to solar simulation: First steps on L-SAT thermal model 10 p1439 N84-19398
Spacecraft thermal balance testing using infrared lamps on a dummy spacecraft 10 p1439 N84-19399
IRSIM: A program for the calculation of infrared flux intensity incident on a spacecraft inside a test chamber 10 p1440 N84-19400
Infrared monitoring of gyrotron windows
[DE84-004442] 10 p1499 N84-19799
A computer code to calculate emission and transmission of infrared radiation through non-equilibrium atmospheres
[AD-A137162] 11 p1683 N84-20980
NOAA program for data analysis for the first detection of CO/sub 2 induced-climate change
[DE84-006509] 12 p1861 N84-22125
Aircraft exhaust plume signature predictions for non-axisymmetric multiple engine installations 13 p1942 N84-22627
Theoretical predictions of excitation cross sections for collisions of HF, HCl, CO, H2O, and CO2 with O(P-3) 13 p1942 N84-22630
Infrared temperature measurements in combustion systems
[PNR-90170] 13 p1994 N84-22942
Shock waves and mass outflow in the Orion molecular cloud: Observations of far-infrared emission lines of carbon monoxide, hydroxyl and ammonia 13 p2071 N84-23423
First infrared radiation detector 14 p2136 N84-23805
The effects of meteorology on marine aerosol and optical and in propagation 15 p2323 N84-24950
The radiative cooling resource 16 p2513 N84-26131
Advanced laser stratospheric monitoring systems analyses
[NASA-CR-172348] 16 p2552 N84-26373
Optical system with reflective baffles
[NASA-CASE-ARC-11502-1] 16 p2557 N84-26400
Spectroscopy of the 3.3 and 3.4 micron dust emission features 16 p2570 N84-26496
Infrared polarimetry of young clusters 16 p2572 N84-26505
Applications of satellite observations to the radiation budget, fluxes and the general circulation
[PB83-256818] 17 p2735 N84-27383
Persistant relaxation of excess charge carriers in epitaxial pure n-GaAs 18 p2624 N84-27931
Unbalanced infrared radiation and natural laser effect in atmospheres of Venus and Mars 19 p2975 N84-28858
LANDSAT 4 band 6 data evaluation
[E84-10175] 21 p3427 N84-31737
Humidity/cloud-radiation feedback on possible climatic perturbation due to fossil fuel utilization
[DE84-011895] 21 p3448 N84-31874
Large Deployable Reflector Science and Technology Workshop. Volume 3: Systems and Technology Assessment
[NASA-CP-2275-VOL-3] 21 p3523 N84-32318
Large Deployable Reflector Science and Technology Workshop. Volume 3: Systems and technology assessment. Introduction 21 p3523 N84-32319
Expendable infrared source and method therefor
[AD-D011112] 22 p3561 N84-32551
Infrared nonlinear optics 22 p3682 N84-33346
Interaction of high intensity subnanosecond CO2 laser pulses with molecules
[AD-A143654] 23 p3754 N84-33795
A model of the performance characteristics of silicon-gallium infrared detectors for low background applications
[AD-A143932] 23 p3825 N84-34256
Design of an orbital heating simulator using IR techniques 24 p3864 N84-34487
Extracts from symposium: Countersurveillance 1983
[MRL-R-921] 24 p3914 N84-34779
Pulsed photothermal radiometry for noncontact spectroscopy, material testing and inspection measurement
[AD-A144640] 24 p3964 N84-35101

INFRARED RADIOMETERS
Study of the combined use of data from satellite thermal infrared and microwave sensors for soil moisture detection
[PB83-252734] 05 p0698 N84-14582
On the use of narrow band infrared channels to determine the outgoing long wave flux — satellite radiometry 10 p1534 N84-20051
Determination of sea surface temperatures from high resolution infrared satellite measurements
[REPT-115] 12 p1837 N84-21975
Results of the joint NASA/NOAA AMTS/HIRS2 sounding simulation test 12 p1851 N84-22059
Heat Capacity Mapping Radiometer (HCMR) data processing algorithm, calibration, and flight performance evaluation
[E84-10153] 17 p2709 N84-27248
Applications of airborne remote sensing in atmospheric sciences research 17 p2715 N84-27286
Infrared photothermal radiometry
[AD-A140562] 17 p2765 N84-27561
The advantages of sounding with the smaller detectors of the VISSR atmospheric sounder
[NOAA-TM-NESDIS-6] 20 p3240 N84-30571
Intelligent infrared sensor
[BMFT-FB-T-84-092] 22 p3658 N84-33189
Evaluation of the use of thermal airborne prospection for archaeology during the last 10 years 23 p3769 N84-33890

INFRARED REFLECTION
Development of technologies for very thin solar cells
[BMFT-FB-W-83-024] 08 p1181 N84-17694
Development of a prototype cathode sputtering plant
[BMFT-FB-T-83-251] 10 p1472 N84-19617
Evaluation of the radiometric integrity of LANDSAT-4 Thematic Mapper band 6 data 20 p3207 N84-30375
Thermal band characterization of LANDSAT-4 Thematic Mapper — Buffalo, New York and water temperature in Lake Erie 20 p3207 N84-30376

INFRARED SCANNERS
Testing and characterizations of infrared sensor over the temperature range of 2 Kelvin to 300 Kelvin 06 p0820 N84-15347
Feasibility of thermal NDE methods for Naval thermal spray coatings
[DE84-001463] 06 p0855 N84-15569
Sensor head performance, responsivity and NETD using pyroelectric linear arrays — noise equivalent temperature difference (NETD)
[RSRE-MEMO-3608] 09 p1317 N84-18605
The relation between isolated tree brightness temperature and grass background brightness temperature
[AD-A135843] 09 p1389 N84-19070
Image dissector camera system study
[NASA-CR-171759] 11 p1656 N84-20806
Study of advanced signal processing and calibration for IRES (infrared sensors)
[REPT-458-DT-5] 12 p1782 N84-21628
NOAA satellite-derived operational sea surface temperature products 12 p1835 N84-21965
Image quality of passive and active scanners
[MBB-UA-684-83-O] 16 p2564 N84-26449
Design study of ion anti-contamination system
[AD-A144197] 24 p3963 N84-35097

INFRARED SIGNATURES
Absolute collisional excitation cross section measurements using crossed molecular beams
[AD-A132038] 03 p0432 N84-12830
Passive infrared ranging
[AD-A138066] 12 p1907 N84-22424

Infrared measurements of vehicles and weapons
[AD-A141177] 18 p2932 N84-28592
LWIR signature from EXCEDE SPECTRAL
[AD-A144169] 24 p3860 N84-34463

INFRARED SPECTRA
A review of optical data analysis related to the modelling of visible and optical infrared atmospheric properties
[AD-A131486] 01 p0106 N84-10687
Synthesis of perfluoroalkylene dianilines
[NASA-CR-168004] 02 p0189 N84-11226
Infrared characteristics of gas plumes
[AD-A131796] 03 p0349 N84-12269
NASA Facts: IRAS - Mapping the Infrared Sky
[NASA-FACTS-139] 03 p0461 N84-13036
Preparation of infrared optic fibers using new materials
[AD-A132311] 04 p0604 N84-13988
Visible and infrared studies of ataclysmic variable stars 05 p0762 N84-14997
The revised AFGL (Air Force Geophysics Laboratory) Infrared Sky Survey Catalog
[AD-A134007] 05 p0763 N84-15005
Development of visible/infrared/microwave agriculture classification and biomass estimation algorithms, volume 2 — Oklahoma and Texas
[E84-10059] 06 p0864 N84-15629
Clear atmospheric effects on insolation illustrated by broad-band radiometer measurements 06 p0876 N84-15701
Observations of the unidentified 3.3 microns emission feature in compact HII regions 06 p0937 N84-16089
Case studies using GOES infrared data and a planetary boundary layer model to infer regional scale variations in soil moisture
[NASA-CR-173250] 07 p1022 N84-16631
The infrared spectral analysis of CF/sub 2Cl/sub 2
[NASA-CR-173198] 07 p1075 N84-16985
Atlas of high resolution infrared spectra of carbon dioxide
[NASA-TM-85784] 10 p1576 N84-20325
Passive infrared ranging
[AD-A138066] 12 p1907 N84-22424
Laboratory infrared studies relevant to Io: A satellite to the planet Jupiter
[NASA-CR-173378] 12 p1922 N84-22522
LANDSAT 4 band 6 data evaluation
[E84-10119] 13 p2005 N84-23009
Near millimeter wave action in n-GaAs
[AD-A138602] 13 p2042 N84-23252
Far-IR spectroscopy of the galactic center: Neutral and ionized gas in the central 10 pc of the galaxy
[NASA-CR-166510] 13 p2070 N84-23411
Surface compositions in the Aristarchus Region: Implications for regional stratigraphy 13 p2087 N84-23519
Thermal infrared analysis of volcanic surfaces: Mars and Hawaii 13 p2088 N84-23524
A new method for obtaining individual component spectra from those of complex mixtures
[AD-A139262] 14 p2122 N84-23719
Manifestation of the Fermi resonance in surface polariton spectra
[NASA-TM-77386] 14 p2222 N84-24330
Analysis of carbon dioxide bands near 2.2 micrometers
[NASA-CR-173605] 16 p2462 N84-25779
Effects of weathering and lichen cover on the middle infrared spectra of rocks
[AD-A140228] 16 p2510 N84-26111
Proceedings of the Workshop on Laboratory and Observational Infrared Spectra of Interstellar Dust
[ISBN-0-902553-29-1] 16 p2589 N84-26485
Spectroscopy of the 3.3 and 3.4 micron dust emission features 16 p2570 N84-26496
Near infrared observations of the visual reflection nebulae NGC 7023, NGC 2023 and NGC 2068 16 p2570 N84-26497
The behaviour of the 3.28 micron dust feature in NGC 2024 16 p2571 N84-26498
The 3.3 micron mapping of NGC 7027 16 p2571 N84-26499
Quenched Carbonaceous Composite (QCC): A likely candidate for interstellar grains 16 p2571 N84-26501
New infrared observations of IRS1, IRS3 and the adjacent nebula in the OMC-2 cluster 16 p2572 N84-26506
Structure in the interstellar polarization curve and the nature of the polarizing grains 16 p2572 N84-26507
Detection of shocked atomic gas in the Kleinmann-Low nebula
[NASA-TM-85967] 16 p2574 N84-26523
Vibrational and rotational excitation of CO in comets. Part 1: Non-equilibrium calculations. Part 2: Results of the calculation for standard bright comet, comet Iras-Araki-Alcock and comet Halley
[NASA-TM-86122] 16 p2579 N84-26545
Abundances in galactic H2 regions, 3: G25.4-0.2, G45.5+0.06, M8, S159 and DR22
[NASA-TM-85962] 17 p2774 N84-27616
Theoretical study of the radiative and kinetic properties of selected metal oxides and air molecules
[AD-A141230] 18 p2811 N84-27847
Photoconductivity of alpha-Si-H in infrared range of spectrum 18 p2825 N84-27933
Laboratory and observational infrared spectra of interstellar dust — conferences
[ROE-OR-12] 18 p2947 N84-28683
Near infrared observations of the visual reflection nebulae NGC 1023, NGC 2023, and NGC 2068 18 p2948 N84-28695
The 3.3 micron mapping of NGC 7027 18 p2949 N84-28697
Infrared polarimetry of young clusters 18 p2950 N84-28704
New infrared observations of IRS1, IRS3, and the adjacent nebula in the OMC-2 cluster 18 p2950 N84-28705
Proceedings of the Large Deployable Reflector Science and Technology Workshop. Volume 1: Executive Summary
[NASA-CP-2275-VOL-1] 18 p2950 N84-28709
Infrared absorption spectroscopy with color center lasers
[DE84-008812] 19 p2990 N84-28945
Fourier transform photoacoustic spectroscopy
[DE84-010216] 19 p2990 N84-28946
Stratospheric NO and NO2 profiles at sunset from analysis of high-resolution balloon-borne infrared solar absorption spectra obtained at 33 deg N and calculations with a time-dependent photochemical model
[NASA-TM-86285] 20 p3240 N84-30566
The physical nature of the symbiotic stars 21 p3524 N84-32325
Measurement of H2O and other trace gases in the stratosphere using a high resolution far-infrared spectrometer at 28 km
[NASA-CR-173879] 22 p3622 N84-32951

INFRARED SPECTROMETERS
Far Infrared Radiometric Spectrometer (FIRRS)
[AD-A133552] 06 p0847 N84-15527
Diode laser spectrophotometry for monitoring acetylene on-line in a liquefaction plant
[DE84-002117] 06 p0851 N84-15548
Fourier spectrometry research on Venera-15, -16 12 p1775 N84-21582
The plumes of IO: A detection of solid sulfur dioxide particles
[NASA-CR-175414] 12 p1922 N84-22523
Investigations of radical-radical reactions using a far infrared Laser Magnetic Resonance (Fir-LMR) spectrometer
[MPIS-4/1983] 13 p1958 N84-22730
Shock waves and mass outflow in the Orion molecular cloud: Observations of far-infrared emission lines of carbon monoxide, hydroxyl and ammonia 13 p2071 N84-23423
Trace constituants measurements deduced from spectrometric observations onboard Spacelab
[AERONOMICA-ACTA-A-286-1984] 20 p3239 N84-30565
New approaches to photothermal spectroscopy
[DE84-009237] 21 p3359 N84-31310
Airborne Visible/Infrared Imaging Spectrometer (AVIRIS): An advanced tool for Earth remote sensing 23 p3781 N84-33976
A cryogenically cooled, multidetector spectrometer for infrared astronomy
[NASA-TM-86004] 23 p3840 N84-34359
LWIR signature from EXCEDE SPECTRAL
[AD-A144169] 24 p3860 N84-34463
Investigation of reactions of the methylene radical by means of a far infrared-laser magnetic resonance (FIR-LMR) spectrometer
[MPIS-4/1984] 24 p3881 N84-34588

INFRARED SPECTROPHOTOMETERS
Development of quantitative infrared analysis for monitoring water and emulsifying agents in fire-resistant microemulsion diesel fuels
[AD-A133242] 06 p0812 N84-15286
The detection of organic contamination of surfaces by infrared spectroscopy
[ESA-PSS-01-705-ISSUE-1] 16 p2462 N84-25780
FTIR analysis of aviation fuel deposits
[NASA-TM-83773] 23 p3726 N84-33606

INFRARED SPECTROSCOPY
Nondestructive FT-IR sampling technique to study glass fiber composite interfaces
[AD-A129871] 01 p0031 N84-10192
Infrared characteristics of gas plumes
[AD-A131796] 03 p0349 N84-12269
Laser journal (selected articles)
[AD-A131886] 03 p0379 N84-12485
Vibrational spectroscopy of chemisorbed molecules by infrared emission
[DE84-000956] 04 p0602 N84-13973
Collisional energy exchange in polyatomic molecules
[AD-A133942] 05 p0744 N84-14886
Electrochemically Modulated Infrared Spectroscopy (EMIRS). Experimental details
[AD-A137040] 10 p1455 N84-19503
Evaluation of the epoxy system for the repair of fuel tank M109
[AD-A136923] 10 p1467 N84-19583
Precision measurements of line positions and profile at a wavelength of ten micrometers — infrared spectroscopy
[MPE-180] 10 p1579 N84-20346
Properties of multiphase polyurethane systems
[AD-A137542] 11 p1637 N84-20703
COCHISE observations of Argon Rydberg emission from 2 to 16 micrometers
[AD-A137916] 11 p1732 N84-21296
Fourier spectrometry research on Venera-15, -16 12 p1775 N84-21582
Laboratory infrared studies relevant to Io: A satellite to the planet Jupiter
[NASA-CR-173378] 12 p1922 N84-22522
Deformation studies of polymers by Fourier transform infrared spectroscopy 13 p1962 N84-22751
The 1983 International Conference on Fourier Transform Spectroscopy September 1983
[AD-A139014] 13 p2043 N84-23258
Far-IR spectroscopy of the galactic center: Neutral and ionized gas in the central 10 pc of the galaxy
[NASA-CR-166510] 13 p2070 N84-23411
Recent comet impacts on the moon: The evidence from spectral reflectance studies 13 p2076 N84-23453
New materials for infrared transmitting electrooptic filters
[AD-A139272] 14 p2224 N84-24349
Electrochemistry at the molecular level
[AD-A140070] 15 p2267 N84-24723
The detection of organic contamination of surfaces by infrared spectroscopy
[ESA-PSS-01-705-ISSUE-1] 16 p2462 N84-25780
NGC 2024: Far-infrared and radio molecular observations
[NASA-TM-85954] 16 p2575 N84-26524
Development of FT-IR attenuated total internal reflection dichroism techniques for structural characterization of polymer surfaces
[AD-A140805] 17 p2768 N84-27577
Spectroscopy of the 4.6 - 4.7 micron interstellar absorption features 18 p2948 N84-28690
Free radical detection and dynamics in propellant ignition and combustion systems
[AD-A142180] 19 p3002 N84-29023
Investigation of laser induced radical reactions using time resolved infrared and coherent anti-Stokes Raman scattering (CARS) spectroscopy
[MPIS-17/1983] 20 p3151 N84-30008
Vibrational spectra of CO on Ni(100) studied by infrared emission spectroscopy
[DE84-009246] 21 p3362 N84-31327
Lithium cell reactions
[AD-A142976] 21 p3391 N84-31522
Microwave and far infrared spectroscopy of transient molecules
[AD-A142962] 21 p3493 N84-32134
Raman and infrared spectroscopy of molecules adsorbed on metal electrodes
[AD-A143466] 22 p3547 N84-32454
Cure reactions, network structure and mechanical response of diaminodiphenyl sulfone cured tetraglycidyl 4,4'diaminodiphenyl methane
[DE84-012607] 22 p3561 N84-32548
Laser remote sensing measurements of natural target reflectivities 23 p3782 N84-33983

INFRARED STARS
The characteristics of OH/IR objects, infrared stars with OH maser emission
[IA-PUBL-95] 01 p0164 N84-11078
Infrared measurements of AFGL (Air Force Geophysics Laborstory) sources
[AD-A133553] 06 p0938 N84-16098
The nature of AFGL 2591 and its associated molecular outflow: Infrared and millimeter-wave observations
[NASA-TM-85963] 16 p2575 N84-26526

INFRARED SUPPRESSION
Passive countersurveillance: An overview 24 p3914 N84-34781

INFRARED TELESCOPES
Information processing for the infrared balloon telescope Goldener Drache
[MPE-38] 03 p0461 N84-13035
The far infrared sky survey experiment
[AD-A131966] 03 p0461 N84-13037

Baffle system employing reflective surfaces
[NASA-TM-84406] 04 p0604 N84-13985
The revised AFGL (Air Force Geophysics Laboratory) Infrared Sky Survey Catalog
[AD-A134007] 05 p0763 N84-15005
STEP flight experiments Large Deployable Reflector (LDR) telescope 08 p1112 N84-17231
One year of stars, provided by the IRAS cryogenic system 10 p1442 N84-19416
Thermal design of Infrared Space Observatory (ISO) payload dual cooling 10 p1442 N84-19417
Exact solution for emission from surface elements of a planet — to spaceborne telescopes 10 p1447 N84-19453
A conceptual design study for the secondary mirror drive of the shuttle infrared telescope facility (SIRTF)
[NASA-CR-166562] 10 p1501 N84-19813
Infrared emission associated with chemical reactions on Shuttle and SIRTF surfaces
[NASA-TM-85675] 12 p1921 N84-22515
Description of the Gornergrat telescope control system
[IFSI-84-3] 18 p2850 N84-28096
Support structures for large infrared telescopes
[NASA-CR-3800] 20 p3200 N84-30328
Double arch mirror study. Part 2: Engineering analysis report
[NASA-CR-166589-PT-2] 21 p3412 N84-31635
Double arch mirror study. Part 3: Fabrication and test report
[NASA-CR-166589-PT-3] 21 p3412 N84-31636
Double arch mirror study
[NASA-CR-166589] 21 p3412 N84-31637
Simulation requirements for the Large Deployable Reflector (LDR)
[NASA-CR-171140] 21 p3523 N84-32317

INFRARED TRACKING
An algorithm for multiple target tracking and data correlation
[AD-A131313] 02 p0273 N84-11786
The aircraft infrared measurements guide
[AD-A132588] 05 p0747 N84-14905
Target track and stabilization for manportable direct fire missiles
[AD-A136219] 09 p1271 N84-18306
Seeker systems simulation, present capability and future technology 21 p3350 N84-31254

INFRARED WINDOWS
Observation of the Earth in the middle infrared
[ESA-TT-790] 03 p0402 N84-12629
Applications of satellite observations to the radiation budget, fluxes and the general circulation
[PB83-256818] 17 p2735 N84-27383

INFRASONIC FREQUENCIES
NT MICROSONICS
Change in immunobiological reactivity under the effect of combined exposure to microwaves, infrasound and gamma radiation 07 p1043 N84-16784
AC voltage calibrations for the 0.1 Hz to 10 Hz frequency range
[PB84-109867] 08 p1163 N84-17570

INGESTION (BIOLOGY)
NT DRINKING

INGESTION (ENGINES)
FOD (Foreign Object Damage) generation by aircraft tires — probability of engine ingestion and airfield surface movements
[AD-A133319] 06 p0786 N84-15146
Vortex lifted stone ingestion: The influence of stone diameter
[BAE-KRS-N-GEN-276] 17 p2603 N84-26676

INGOTS
Analysis and calculation of macrosegregation in a casting ingot, exhibits C and E
[NASA-CR-171030] 14 p2127 N84-23752
Engineering property comparisons of PM alloy X7091-T7E69 and IM alloy forgings
[NLR-TR-82054-U] 15 p2296 N84-24782
Experimental study of immiscibility in metallurgical systems
[BLL-M-35553-(5828.4)] 17 p2621 N84-26775
Polycrystalline silicon sheets for solar cells by the improved spinning method 18 p2937 N84-28626
Effects of non-equilibrium solidification on the material properties of brick silicon for photovoltaics 18 p2940 N84-28648
Influence of direct current on temperature gradient in directionally solidifying ingot of alloy YuNDK35T5
[BLL-M-35684-(5828.4)] 22 p3553 N84-32495
Engineering property comparisons of Powder Metallurgy (PM) alloy X7901-T7E69 and Ingot Metallurgy (IM) alloy forgings
[NLR-MEMO-SM-83-050-U] 23 p3720 N84-33583
A review of our present understanding of macrosegregation in ingots 24 p3883 N84-34601
Lamberton Robotics develops new robot to handle heavy loads 24 p3892 N84-34650

INGRESS (SPACECRAFT PASSAGEWAY)
Columbia: The first 5 flights entry heating data series. Volume 5: The side fuselage and payload bay door
[NASA-CR-171732] 22 p3541 N84-32416

INHALATION
U RESPIRATION

INHIBITORS
NT WEAR INHIBITORS
Combined effects of ionizing radiation and anticholinesterase exposure on rodent motor performance
[AD-A131847] 03 p0414 N84-12707
Environmental durability of aluminum adhesive joints protected with hydration inhibitors
[AD-A135304] 09 p1288 N84-18412
The effects of organophosphorus anticholinesterase compounds on brain glucose and energy metabolism
[AD-A137819] 11 p1695 N84-21058
Development of flame retardant, low aggressivity cables 11 p1723 N84-21239
Low-smoke, halogenfree ship-offshore/onshore cables with improved flame retardance and fire resistance 11 p1723 N84-21240
Versatile fire barrier systems for telephone cable 11 p1723 N84-21241
Suppression of asymmetric acid efflux and gravitropism in maize roots treated with auxin transport inhibitors of sodium orthovanadate
[NASA-CR-173634] 17 p2740 N84-27395
Human response to pyridostigmine bromide
[AD-A140960] 18 p2900 N84-28395
Thixotropic flame inhibitors for rocket propellant grains
[AD-D011081] 21 p3373 N84-31408
Influence of diluents and inhibitors on detonations
[DE84-006300] 22 p3548 N84-32463

INHOMOGENEITY
Determination of composition profile for isomorphic binary alloys
[INPE-2813-RPE/438] 02 p0193 N84-11251
Investigation of inhomogeneity in ceramic reactor materials using laser-localized emission spectroscopy
[JUEL-1834] 03 p0357 N84-12323
The plane stress/strain analysis of non-homogeneous continua by the boundary integral equation method
[TR-821S] 04 p0587 N84-13880
Volume integrals associated with the inhomogeneous Helmholtz equation. Part 1: Ellipsoidal region
[NASA-CR-3749] 05 p0689 N84-14525
Volume integrals associated with the inhomogeneous Helmholtz equation. Part 2: Cylindrical region; rectangular region
[NASA-CR-3750] 05 p0689 N84-14526
Multiple scattering from a random and inhomogeneous slab 06 p0863 N84-15624
A numerical analysis of the effect of inhomogeneity and wind speed shear on the vertical dispersion in the mesoscale range
[AD-A137188] 11 p1688 N84-21006
Material damage and structural instability analysis: Local and global stationary values of the strain energy density function 17 p2678 N84-27057
Local gravity anomalies and crustal density inhomogeneities in southern Kurile Islands 17 p2701 N84-27205
Dependence of velocity on depth determined from travel-time curves of refracted waves in randomly inhomogeneous media 17 p2701 N84-27208
Density inhomogeneities in upper mantle of eastern Indian Ocean 17 p2702 N84-27210
Ray trajectories in stochastic media with linear dependence of deterministic velocity component on depth 17 p2702 N84-27211
New data on upper mantle lateral inhomogeneities in western Eurasia 17 p2703 N84-27217
Optimum density structure of upper mantle along Japan - Shatskiy Rise - Emperor Sea mounts geotraverse 17 p2704 N84-27220
Allowance for geomagnetic field variations and tie-in of observations in highly precise aeromagnetic surveys 17 p2704 N84-27221
Possibilities of studying inelastic properties and characteristics of medium inhomogeneity using spectra of scattered waves 17 p2706 N84-27230
Movement mechanism of solitary synoptic eddies 17 p2707 N84-27239
Spectrum of phase fluctuations during probing of ionosphere 18 p2822 N84-27916
Wavefront reversal in nonstationary medium with large-scale inhomogeneities description by operator equations 18 p2822 N84-27918
A radiative transfer model for remote sensing of laser induced fluorescence of phytoplankton in non-homogeneous turbid water
[NASA-CR-173777] 19 p3063 N84-29432
Non-geometrical optics investigation of mode conversion in weakly relativistic inhomogeneous plasmas
[DE84-012396] 20 p3306 N84-31002
Resonance and edge amplification of an electric field in a plasma resonance layer and acceleration of particles at plasma inhomogeneities 21 p3483 N84-32073
Reflection of electromagnetic waves from inhomogeneous media 22 p3566 N84-32586
Diffusion modeling with convective scaling and effects of surface inhomogeneities
[PB84-210053] 22 p3627 N84-32981
An experimental investigation of gas jets in confined swirling air flow
[NASA-CR-3832] 23 p3894 N84-33412

INITIAL VALUE PROBLEMS
U BOUNDARY VALUE PROBLEMS

INITIATION
Velocity Interferometer System for Any Reflector (VISAR): Studies of wave growth in granular explosives
[DE83-013772] 02 p0204 N84-11330
Initiation and propagation of shear bands in antiplane shear deformation
[AD-A140741] 17 p2624 N84-26794

INITIATORS
Series detonator initiation system
[AD-A138101] 12 p1811 N84-21809

INITIATORS (EXPLOSIVES)
NT BOOSTERS (EXPLOSIVES)
NT DETONATORS
NT EXPLODING WIRES
NT PRIMERS (EXPLOSIVES)
EPR spectroscopy of thermally initiated free radicals in RDX
[AD-A133976] 05 p0646 N84-14251
Combustion of redox mixes in the Through Bulkhead Initiator (TBI) configuration
[SNIAS-841-422-115] 21 p3363 N84-31332

INJECTION
NT FLUID INJECTION
NT FUEL INJECTION
NT GAS INJECTION
NT ION INJECTION
NT LIQUID INJECTION
NT WATER INJECTION
Fueling of fusion devices by pellet injection: Development in the USA
[DE83-013706] 01 p0151 N84-10990
Techniques for the inorganic analysis in a controlled ecological life support system 06 p1204 N84-17853
Fault detection and protection system for neutral beam generators on the Neutral Beam Engineering Test Facility (NBETF)
[DE84-006634] 12 p1903 N84-22394
Simulation of an electronic countermeasure technique
[AD-D011143] 22 p3572 N84-32619
Temporal evolution of whistler growth in a cold plasma injection experiment
[NASA-CR-173972] 23 p3628 N84-34280

INJECTION CARBURETORS
U FUEL INJECTION

INJECTION LASERS
Bistable injection lasers 14 p2241 N84-24455

INJECTION MOLDING
Polyester fiber reinforcement of thermosetting molding compounds
[BMFT-FB-T-83-155] 05 p0661 N84-14342
Precision machining application and technology: An overview and perspective
[AD-A135968] 09 p1390 N84-19075
Technique for removing resin from a molded object
[NASA-TM-77240] 11 p1641 N84-20729
Swedish activities in new ceramic materials, processes 14 p2119 N84-23696
An investigation into the injection molding of PMR-15 polyimide
[NASA-CR-173550] 15 p2301 N84-24810
Recycling of duroplastic moulding materials hardened by dispersion by means of powdering and compounding new materials
[BMFT-FB-T-83-302] 15 p2301 N84-24811
The effect of injection molding processing parameters on the environmental stress cracking resistance of polycarbonate moldings
[MRL-R-924] 20 p3201 N84-30332

INJECTORS
Combustion performance and heat transfer characterization of LOX/hydrocarbon type propellants, volume 2
[NASA-CR-171714] 02 p0202 N84-11318
Atomization and mixing study
[NASA-CR-170943] 06 p0634 N84-15428
Design and construction of the injector cyclotron (SPC1); the injection beamline and the Separated-Sector Cyclotron (SSC)
[NAC/AR-82-01] 07 p1074 N84-16976

The Mark 3 linac as a high current source for FEL (Free Electron Lasers) experiments
[AD-A136312] 09 p1320 N84-18625
Low loss injector for Space Shuttle main engine. Center director's discretionary fund
[NASA-TM-82567] 10 p1450 N84-19469
Computer optimization of a linac injector trajectory
[DE84-005034] 15 p2408 N84-25456
Oxygen/hydrogen thrusters for the space station auxiliary propulsion systems 20 p3140 N84-29934
Techniques for fatigue life predictions from measured strains
[NASA-CR-171118] 20 p3201 N84-30334
Protective plasma envelope
[DE84-013316] 21 p3502 N84-32194
The stability of atropine, stored in the Swedish autoinjector
[FOA-C-40191-C3] 23 p3805 N84-34127

INJURIES
NT BACK INJURIES
NT BAROTRAUMA
NT BRAIN DAMAGE
NT CRASH INJURIES
NT EJECTION INJURIES
NT FROSTBITE
NT LESIONS
NT NOISE INJURIES
NT PARALYSIS
NT RADIATION INJURIES

Cervical spline analysis for ejection injury prediction
[AD-A131081] 01 p0114 N84-10739
Electromyographic analysis of the peroneous longus during bicycle ergometry across work load and pedal type
[AD-A132550] 05 p0712 N84-14686
Overuse injuries of the lower extremities associated with marching, jogging and running. A review
[AD-A134672] 08 p1200 N84-17824
Occupational efficiency in relation to psychophysiological characteristics 18 p2896 N84-28373
Design and development of an automatically controlled variable-load energy absorber
[AD-A142683] 20 p3128 N84-29868

INKS
Fire-retardant decorative inks for aircraft interiors
[NASA-TM-85876] 10 p1451 N84-19475
Metallization with generic metallo-organic inks 12 p1840 N84-21996
Multicolor printing plate joining
[NASA-CASE-LEW-13598-1] 13 p1992 N84-22930

INLAND WATERS
NT GROUND WATER
SEASAT altimetry for surface height of inland seas 20 p3222 N84-30472

INLET AIRFRAME CONFIGURATIONS
Experience in engine face, non-steady, flow measurements through a side and bottom engine air inlet duct 14 p2100 N84-23600

INLET FLOW
A computer program for the calculation of three-dimensional transonic nacelle/inlet flowfields
[NASA-CR-166528] 04 p0480 N84-13159
Three-dimensional viscous design methodology for advanced technology aircraft supersonic inlet systems
[NASA-TM-83558] 04 p0485 N84-13190
Inlet flow field investigation. Part 1: Transonic flow field survey
[NASA-CR-172239] 06 p0782 N84-15123
Broad specification fuels combustion technology program
[NASA-CR-168179] 06 p0812 N84-15283
Effects of a skewed inlet end wall boundary layer on the 3-D flow field in an annular turbine cascade 07 p0956 N84-16202
Theoretical and experimental engine-inlet flow fields for fighter forebodies
[NASA-TP-2270] 08 p1097 N84-17132
Multi-ducted inlet combustor research and development
[AD-A135906] 09 p1257 N84-18205
Grid flexibility and patching techniques 11 p1610 N84-20540
Inlet flowfield investigation. Part 2: Computation of the flow about a supercruise forebody at supersonic speeds
[NASA-CR-172315] 12 p1766 N84-21516
An experimental and analytic study of the flow subsonic wind tunnel inlets
[AD-A138865] 13 p1927 N84-22540
Numerical analysis of an unsteady shock in an inlet diffuser 13 p1951 N84-22686
Bellows flow-induced vibrations
[NASA-TM-82556] 13 p1989 N84-22912
Turbulent diffuser flow studies related to the design of the ETW diffuser 14 p2095 N84-23572
Disturbances from ventilated tunnel walls in aerofoil testing 14 p2096 N84-23573
Experience in engine face, non-steady, flow measurements through a side and bottom engine air inlet duct 14 p2100 N84-23600
V/STOL model fan stage rig design report
[NASA-CR-174888] 14 p2106 N84-23629
Introduction to unsteady flow in turbomachines 16 p2489 N84-25962
High speed ejectors
[AD-A141562] 18 p2796 N84-27741

INLET NOZZLES
Turbulent diffuser flow studies related to the design of the ETW diffuser 14 p2095 N84-23572

INLET PRESSURE
V/STOL model fan stage rig design report
[NASA-CR-174888] 14 p2106 N84-23629

INLETS (DEVICES)
U INTAKE SYSTEMS

INLETS (TOPOGRAPHY)
Sediment transport in a tidal inlet
[PB83-242271] 03 p0402 N84-12632

INOCULATION
Properties of grey cast iron treated with pulsating current during inoculation
[BLL-M-35116-(5828.4)] 01 p0040 N84-10252
Lack of an effect of corpuscular vaccine against I phase Q-fever on persistence and reactivation of Coxiella burnetii infection in mouse and guinea pigs tissue 17 p2741 N84-27402

INORGANIC CHEMISTRY
Applications of molecular quantum mechanics to problems in chemistry
[DE83-015943] 03 p0456 N84-13003
Activities of the National Chemical Research Laboratory
[CSIR-SR-CHEM-261] 06 p0796 N84-15188
Techniques for the inorganic analysis in a controlled ecological life support system 08 p1204 N84-17853
United States Air Force Academy, Department of Chemistry research: AY 1982-83
[AD-A141015] 18 p2808 N84-27828

INORGANIC COATINGS
NT ANODIC COATINGS
NT CERAMIC COATINGS

INORGANIC COMPOUNDS
NT AMMONIA
NT LIQUID AMMONIA

Inorganic analysis in a controlled ecological life support system
[NASA-CR-173299] 08 p1204 N84-17852
Inorganic halogen oxidizers
[AD-A139127] 14 p2121 N84-23714

INORGANIC MATERIALS
Acidic deposition and the corrosion and deterioration of materials in the atmosphere: A bibliography, 1880 - 1982
[PB83-236091] 01 p0047 N84-10302
Methods for estimating physicochemical properties of inorganic chemicals of environmental concern
[AD-A144154] 24 p3917 N84-34799

INORGANIC NITRATES
NT AMMONIUM NITRATES
NT SODIUM NITRATES

INORGANIC PEROXIDES
NT HYDROGEN PEROXIDE

INORGANIC SULFIDES
NT CADMIUM SULFIDES
NT COPPER SULFIDES
NT HYDROGEN SULFIDE
NT LEAD SULFIDES
NT MOLYBDENUM DISULFIDES
NT MOLYBDENUM SULFIDES
NT POLYSULFIDES
NT ZINC SULFIDES

INPUT
Internal noise of low-frequency preamplifiers
[AD-A131532] 02 p0213 N84-11398
MAZE: An input generator for DYNA2D and NIKE2D
[DE83-016415] 02 p0274 N84-11795
Dynamic control of session input rates in communication networks
[AD-A133572] 06 p0825 N84-15379

INPUT/OUTPUT ROUTINES
Efficient demand-driven evaluation (2)
[AD-A133879] 05 p0727 N84-14776
Performance characteristics of passive coherence estimators
[AD-A133209] 06 p0829 N84-15396
Input-output characterization of an ultrasonic testing system by digital signal analysis
[NASA-CR-3756] 06 p0854 N84-15565
Control and identification of time varying systems
[AD-A135223] 08 p1238 N84-18091
User's guide: Interactive graphics computer program for contouring randomly spaced data
[AD-A135861] 09 p1367 N84-18927
The GRAPHIX library - A collection of interaction graphics routines for the Tektronix 4014
[AD-A135757] 09 p1368 N84-18932
Economic analysis model program user's manual (Burroughs version)
[AD-A135950] 09 p1405 N84-19182
Implement of the computer program-system MOSS (Map overlay and statistical system) on a VAX-11 series computer under VMS
[AD-A137104] 10 p1525 N84-19992
A user-oriented microprocessor shell command language interpreter
[AD-A136809] 10 p1563 N84-20242
The operator mapping between relational algebra operators and CODASYL based databases managed by a CODASYL DBMS
[AD-A138117] 12 p1918 N84-22497
BETA: A program for calculating and archiving backscattering profiles taken with the NOAA National Oceanic and Atmospheric Administration) coherent lidar system
[PB84-150168] 14 p2177 N84-24040
ACSL (Advanced Continuous Simulation Language) simulation of a third order Butterworth filter using implementations derived from both Z and S domain representations
[AD-A140302] 16 p2545 N84-26335
Important CAD/CAM utilization at MBB
[MBB-Z-13-83-O] 16 p2564 N84-26451
Report on functional design specification for the automated alphanumeric data entry system
[AD-A142518] 20 p3266 N84-30725
Common data input-retrieval system
[DE84-010972] 20 p3315 N84-31053
Aerodynamic heating computations for projectiles. Volume 3: BRL interactive plotting program (BRLINPLOT)
[AD-A143254] 22 p3532 N84-32361
Programmable signal processing device
[AD-D011109] 22 p3580 N84-32673
COSMIC/NASTRAN free-field input 22 p3609 N84-32865
I/O channel interface
[NBS-FIPS-PUB-60-2] 22 p3637 N84-33057
ADA (trademark) training curriculum. Basic ADA programming t202 teacher's guide, volume 2
[AD-A143585] 22 p3641 N84-33084
Image input/output controller-interface based on 16-bit microprocessor 24 p3942 N84-34954
Multi-length arithmetic implementation and uses
[MR-179] 24 p3950 N84-35008

INSAT SATELLITES
U INDIAN SPACECRAFT

INSECT DAMAGE
U INFESTATION

INSECTICIDES
NT URETHANES

INSECTS
NT MOTHS

Estimation of temporally and spatially varying coefficients in models for insect dispersal
[AD-A135093] 08 p1218 N84-17946
A fundamental approach to the sticking of insect residues to aircraft wings
[NASA-CR-173721] 18 p2791 N84-27717
Gypey moths and American dog ticks: Space partners 18 p2800 N84-27768
Evaluation of insecticides, repellents, and other approaches to the control of coastal stand flies, culicoides spp
[AD-A141132] 19 p3063 N84-29435
A possibility of avoiding surface roughness due to insects
[NASA-TM-77419] 23 p3690 N84-33384

INSENSITIVITY
U SENSITIVITY

INSERTION LOSS
Propagation loss in electrostatically variable SAW delay lines
[AD-A142433] 20 p3178 N84-30183

INSHORE ZONES
U BEACHES

INSOLATION
Review of potential satellite techniques for mesoscale mapping of insolation
[DE83-011998] 03 p0401 N84-12622
Model for illuminance on horizontal and vertical surfaces
[DE83-011973] 03 p0475 N84-13127
Graphical method for determining interflected daylight in clear climates
[DE83-011989] 03 p0475 N84-13128

Clear atmospheric effects on insolation illustrated by broad-band radiometer measurements
06 p0876 N84-15701
Proposals for VIRA (Venus International Reference Atmosphere): Solar and thermal radiation
[PB-829] 08 p1244 N84-18135
Meteorological/atmospheric effects on the performance of solar photovoltaic energy conversion devices
[DE84-000018] 11 p1674 N84-20927
Remote sensing of agricultural crops and soils
[E84-10107] 12 p1829 N84-21925
Study of systems and technology for liquid hydrogen production independent of fossil fuels
[NASA-CR-173422] 13 p1965 N84-22768
Effect of operating temperature on the HWB model for solar-collector design
[DE84-900248] 16 p2519 N84-26172
Optimal position of solar arrays on sunsynchronous satellites
[INPE-3010-RPE/454] 17 p2614 N84-26732
Recent solar measurements results at the parabolic dish test site 18 p2875 N84-28258
Preliminary comparison of insolation measurements, forecasts, and estimates from satellite imagery
[DE84-004435] 18 p2883 N84-28293
SERI photovoltaics advanced research and development: FY 1983 accomplishments
[DE84-004493] 21 p3434 N84-31789
Insolation assessment studies
[DE84-004523] 23 p3798 N84-34084

INSOMNIA
Symposium on mathematical modeling of circadian systems
[AD-A133636] 05 p0713 N84-14673

INSPECTION
NT INFRARED INSPECTION
NT X RAY INSPECTION
In-service NDI of composite structures: An assessment of current requirements and capabilities
01 p0035 N84-10220
Potential inspection, maintenance and repair techniques for the OTEC (Ocean Thermal Energy Conversion) systems
[PB83-221374] 01 p0060 N84-10397
Improving NDE (Non-destructive evaluation) capability through multiple inspection with application to gas turbine engine disks
[AD-A131762] 03 p0385 N84-12509
Nondestructive evaluation publications, 1981
[PB83-239574] 03 p0386 N84-12517
Penetrant and magnetic-particle inspection for material integrity
[DE83-017830] 04 p0546 N84-13600
Pulse echo ultrasonic techniques for underwater inspection of steel waterfront structures
[AD-A133701] 05 p0689 N84-14527
An instrument for the characterization of defects in ultrasonic inspections
[CISE-2073] 05 p0690 N84-14533
Elastomeric impression materials and cleaning systems for residue removal
[RFP-3442] 06 p0814 N84-15296
Automatic inspection for printed wiring
[AD-A133328] 06 p0854 N84-15566
A new technique for measuring metal surface properties at the Rayleigh critical angle
[DE84-001770] 08 p1172 N84-17632
Preventive maintenance intervals for components of the F-15/F100 aircraft engine
[AD-A135637] 09 p1249 N84-18156
After-test engine inspection of US Army administrative and light-tactical vehicles operated on gasohol and unleaded gasoline
[AD-A137312] 10 p1502 N84-19817
Ultrasonic inspection of MC2693 strength member assembly weld
[DE84-007084] 12 p1824 N84-21892
Railroad safety program, task 2
[NASA-CR-173598] 16 p2569 N84-26483
Swedish Air Force maintenance programme for aged transparent enclosures for jet trainer and jet fighter aircraft
[AD-P003208] 17 p2593 N84-26621
An estimation problem in faulty inspection sampling, revised
[AD-A141247] 18 p2851 N84-28103
A high-speed characterization technique for solar silicon 18 p2939 N84-28641
Safety study: Airport certification and operations
[PB84-917002] 19 p2960 N84-28761
Qualifications of ultrasonic testing for nuclear inservice inspection applications
[DE84-011899] 20 p3200 N84-30323
Robotisation of dye penetrant inspection: A study of a prototype and its development
[BLL-RISLEY-TRANS-4585-(9091.9)] 22 p3606 N84-32847
Eddy current testing of steam generator tubes
[BLL-RISLEY-TRANS-4584-(9091.9)] 22 p3606 N84-32848
Battery safety procedures for surface-mining equipment
[LC-84-600162] 23 p3741 N84-33713
Notice for airmen, part 2. Index of approved aeronautical engineering operations and of independent inspectors according to paragraph 33 of test procedures for aeronautical appliances
[NFL-II-39/84] 24 p3847 N84-34395
Ultrasonic inspection of composite materials
[AD-D011210] 24 p3911 N84-34768

INSPIRATION
Effect of inspiratory muscle fatigue on perception of added loads in humans 10 p1548 N84-20150

INSTABILITY
U STABILITY

INSTALLATION
U INSTALLING

INSTALLING
Installation of electric generators on turbine engines
01 p0010 N84-10061
Inflatable device for installing strain gage bridges
[NASA-CASE-FRC-11068-1] 03 p0375 N84-12443
A radically new approach to the installation of optical fibre using the viscous flow of air
11 p1724 N84-21247
Details of cosmonauts' installation of solar batteries
12 p1774 N84-21572
Installation of large-size technological equipment (selected pages)
[AD-A139069] 15 p2318 N84-24910
Economics of installation of solar heating plants
17 p2641 N84-26896
Proposed MIL-STD for avionics installation interfaces
[AD-P003578] 21 p3338 N84-31183

INSTITUTIONS
An evaluating report on the Institute for Computer Sciences and Technology, National Bureau of Standards, fiscal year 1983
[PB84-194802] 21 p3516 N84-32271

INSTRUCTION SETS (COMPUTERS)
Processing time using Datatrieve-11, clunks, and FORTRAN
[DE84-001706] 06 p0935 N84-16081
A proposal for the extension of the LISP language
[INPE-3056-PRE/476] 17 p2752 N84-27463

INSTRUCTIONS
U EDUCATION

INSTRUCTORS
Device 2E6 (ACMS) Air Combat Maneuvering Simulator instructor console review
[AD-A138972] 13 p1935 N84-22587
NASA, the first 25 years: 1958 - 1983
[NASA-EP-182] 16 p2583 N84-26563
The CECOM summer faculty research program
[AD-P003421] 20 p3270 N84-30753
Operating system interface for Ada (trademark) instructors
[AD-P003433] 20 p3272 N84-30765
Concurrency of design criteria: A key to trainer readiness
[AD-P003454] 21 p3509 N84-32231
An adaptive CBT (Computer Based Training) courseware authoring system to meet the needs of military authors
[AD-P003460] 21 p3510 N84-32237
User friendly authoring languages: An alternative approach
[AD-P003461] 21 p3510 N84-32238

INSTRUMENT APPROACH
Aircraft accident report: Eastern Air Lines, Inc., Boeing 727-225, N8838E, Raleigh, North Carolina, November 12, 1975
[PB83-910406] 11 p1603 N84-20500

INSTRUMENT COMPENSATION
NT TEMPERATURE COMPENSATION
All-fiber gyroscope with optical-Kerr-effect compensation 06 p0846 N84-15518

INSTRUMENT DRIFT
U DRIFT (INSTRUMENTATION)

INSTRUMENT ERRORS
Aerodynamic coefficient identification package dynamic data accuracy determinations: Lessons learned
01 p0022 N84-10138
Flight tests for a strapdown system (MSS): The results of a special flight test
[ESA-TT-818] 03 p0330 N84-12153
The measurement of large strains with foil resistance strain gages
[AD-A133687] 05 p0685 N84-14500
The evaluation of rain gages, illustrated by the Thies rain gage and the electrical rain gage of the Royal Netherlands Meteorological Institute (KNMI)
[KNMI-WR-83-16] 14 p2180 N84-24057
CONUS Loran-C error budget: Flight test
[AD-A139871] 15 p2259 N84-24568
Measurements of elongational viscometry using a fiber spinning technique. Part 1: Modifications to the Sangamo Schlumberger elongational viscometer model E4
[AD-A140002] 15 p2333 N84-25010
A reassessment of the measurement uncertainty of the XT-90 twin T dual admittance bridge
[AD-A139253] 16 p2483 N84-25923

INSTRUMENT FLIGHT RULES
Controls, Displays, and Information Transfer for General Aviation IFR Operations
[NASA-CP-2279] 03 p0311 N84-12029
Single pilot IFR program overview and status
03 p0311 N84-12030
Single pilot IFR accident data analysis
03 p0311 N84-12031
Study to determine the IFR operational profile and problems to the general aviation pilot
03 p0311 N84-12032
Analysis of general aviation single-pilot IFR incident data obtained from the NASA Aviation Safety Reporting System 03 p0312 N84-12033
A summary and integration of research concerning single pilot IFR operational problems 03 p0312 N84-12034
General aviation single pilot IFR autopilot study
03 p0312 N84-12035
Flight test validation of a design procedure for digital autopilots 03 p0312 N84-12036
A simulator evaluation of an automatic terminal approach system 03 p0312 N84-12037
Pilot controls and SPIRF flight
03 p0312 N84-12038
Advanced symbology for general aviation approach to landing displays 03 p0313 N84-12039
A flight investigation of simulated data link communications during single-pilot IFR flight
03 p0313 N84-12046
Proposed study to determine potential flight applications and human factors design guidelines of voice recognition/synthesis systems 03 p0314 N84-12047
Aircraft accident report - A. E. Staley Manufacturing Company, Inc., Canadair Challenger CL-600, N605C, Hailey, Idaho, January 3, 1983
[PB83-910405] 04 p0482 N84-13169
Evaluation of the effects of lateral and longitudinal aperiodic modes on helicopter instrument flight handling qualities
[AD-A134116] 05 p0629 N84-14135
Conceptual design and simulator implementation of an automatic terminal approach system
[NASA-TM-85667] 07 p0959 N84-16215
Single-pilot IFR flights and operations
[SNIAS-832-210-103] 16 p2552 N84-26374
FAA (Federal Aviation Administration) air traffic activity FY 1983
[AD-A142493] 20 p3127 N84-29861

INSTRUMENT LANDING SYSTEMS
NT ALL-WEATHER LANDING SYSTEMS
NT AUTOMATIC LANDING CONTROL
A simulator evaluation of a rate-enhanced instrument landing system display 03 p0313 N84-12042
A comparison of two position estimate algorithms that use ILS localizer and DME information. Simulation and flight test results
[NASA-TP-2281] 08 p1102 N84-17165
Engineering and technical services to improve reliability and maintainability of instrument landing system components
[DOT/FAA/PM-84/7] 11 p1604 N84-20503
Instrument landing system critical area studies
[AD-A138228] 12 p1768 N84-21530
Evaluation of instrument landing system DDM (Difference in Depth of Modulation) calibration accuracies
[AD-A138301] 12 p1768 N84-21533

INSTRUMENT ORIENTATION
Simulation aspects in the study of rectification of satellite scanner data 03 p0394 N84-12571
Geometric modeling of large space antenna deployment 12 p1876 N84-22225
Orientation and calibration of three-dimensional tachometer with aid of available angle data
17 p2651 N84-26954

INSTRUMENT PACKAGES
NRIO microcomputer system
[CSIR-T/SEA-8134] 04 p0577 N84-13805
Materials, Processes and Testing Laboratory. Summarizing module performance at MIT Lincoln Laboratory experimental photovoltaic test sites, 1977 - 1982
[DOE/ET-20279/188] 16 p2512 N84-26122

The development of a high-capacity instrument module heat transport system, appendixes
[NASA-CR-175260] 22 p3592 N84-32750
Research pressure instrumentation for NASA Space Shuttle main engine, modification no. 5
[NASA-CR-171128] 22 p3622 N84-32949

INSTRUMENTAL ANALYSIS
U ANALYZING
U AUTOMATION

INSTRUMENTATION
U INSTRUMENTS

INSTRUMENTS
Evaluation of a draft standard on performance specifications for health physics instrumentation
[DE83-016169] 02 p0266 N84-11749
Evaluation of a draft standard on performance specifications for health physics instrumentation
[DE83-016186] 02 p0266 N84-11750
Development of instrumentation for monitoring carbon fiber emission
[PB83-233726] 03 p0378 N84-12460
Digital instrumentation package or an improved torsion pendulum
[PB83-240424] 04 p0539 N84-13547
Instrumentation requirements for small scale towed temperature measurements
[AD-A139897] 15 p2336 N84-25026

INSULATED STRUCTURES
Double layered tailorable advanced blanket insulation
[NASA-CR-166600] 23 p3723 N84-33591

INSULATING MATERIALS
U INSULATION

INSULATION
NT ELECTRICAL INSULATION
NT MULTILAYER INSULATION
NT THERMAL INSULATION
Metal-insulator-metal junctions as surface sources of intermodulation
[AD-A130451] 01 p0043 N84-10279
Insulation-resistance measurements of coated and uncoated printed wiring boards
[DE83-015457] 01 p0074 N84-10489
Great prospects for fiber optics sensors
[NASA-TM-77357] 02 p0293 N84-11922
Study of the physics of insulating films as related to the reliability of metal-oxide semiconductor devices
[AD-A133674] 05 p0754 N84-14944
Method for forming an insulating film on electromagnetic steel sheet
[BLL-OA-TRANS-3124-(6196.3)] 09 p1281 N84-18368
Electric field distortion in electro-optical devices subjected to ionizing radiation
[AD-A136573] 09 p1308 N84-18549
Evaluation of advanced technologies for power transformers
[DE84-004046] 10 p1487 N84-19719
Evaluation of propellant tank insulation concepts for low-thrust chemical propulsion systems
[NASA-CR-168320] 11 p1625 N84-20634
Longitudinal waterblocking performance of conductive and non-conductive waterswellable nonwovens 11 p1721 N84-21225
New data on long term stabilization of polyethylene for telecommunication wire insulation 11 p1721 N84-21227
Behaviour of four non-migratory antioxidants in solid polyethylene insulation 11 p1721 N84-21228
Measurement of thickness of SiO/sub 2 insulation layers in silicon structures with dielectric insulation 18 p2824 N84-27929
Optimation of cooled shields in insulations
[NASA-CR-166583] 18 p2836 N84-27999
HgCdTe surface and defect study program
[AD-A142342] 20 p3308 N84-31010
Opacification of high temperature fibrous insulation
[NASA-CR-166578] 21 p3356 N84-31285
Preliminary guidelines for maintenance of polyurethane foam (PUF) roofing systems
[AD-A143458] 22 p3560 N84-32543
Process for making a fluid-cooled electrical conductor
[AD-D011150] 23 p3735 N84-33666
Impacting device for testing insulation
[NASA-CASE-MFS-25862-2] 23 p3756 N84-33807
Improved monogroove heat pipe design: Insulated liquid channel with bridging wick
[NASA-CASE-MSC-20497-1] 24 p3899 N84-34692

INSULATORS
Irradiation effects on the mechanical properties of composite organic insulators
[DE83-014703] 01 p0032 N84-10202
Development of a generator stator insulation system
[AD-A130376] 01 p0070 N84-10455
Polyimides for use in integrated circuits
[DE83-016769] 02 p0201 N84-11310
Development of materials for open-cycle MHD
[DE83-016334] 03 p0445 N84-12926
Dynamic aspects of the dye-sensitized photoconductivity of semiconductors
[DE84-001132] 04 p0615 N84-14059
Insulator materials in high power lasers for inertial fusion: Present and future
[DE84-003738] 06 p1234 N84-18063
Laser-induced etching of insulators using a dc glow discharge in silane
[DE84-007570] 14 p2151 N84-23888
MM&T-Ceramic metal substrates for hybrid electronics: Handbook
[AD-A140689] 17 p2623 N84-26790
Estimating reliability of an electrical insulating system
[DE84-010633] 18 p2834 N84-27993
Air as an adjustable insulator for C-V and G-V analysis of semiconductor surfaces
[AD-A141437] 19 p3013 N84-29099

INSULIN
Insulin and cortisol improve heat tolerance in isolated perfused rat liver
[AD-A133382] 07 p1042 N84-16758
East Europe report: Scientific affairs
[JPRS-ESA-84-007] 23 p3728 N84-33628

INTAKE SYSTEMS
NT AIR INTAKES
NT ENGINE INLETS
NT HELICAL INDUCERS
NT INLET AIRFRAME CONFIGURATIONS
NT SUPERSONIC INLETS
Analytical study of blowing boundary-layer control for subsonic V/STOL inlets
[NASA-TM-83576] 07 p0946 N84-16141
A study of annular diffuser flow using a photon-correlating laser Doppler anemometer
[AD-A137019] 10 p1493 N84-19762
An experimental and analytic study of the flow subsonic wind tunnel inlets
[AD-A138865] 13 p1927 N84-22540
High current induction accelerators
[AD-A142303] 19 p3102 N84-29703
Air Force Academy Aeronautics Digest
[AD-A142399] 20 p3125 N84-29849

INTEG PROGRAM FOR AEROSPACE VEH DESIGN
U IPAD

INTEGERS
On Waring's problem g (4) or = 20 03 p0425 N84-12781
Computational methods in number theory, part 1
[MATH-CENTRE-TRACTS-154-PT-1] 08 p1223 N84-17990
Primality testing 08 p1224 N84-17993
Analysis and comparison of some integer factoring algorithms 08 p1224 N84-17995
Perfect numbers and aliquot sequences 08 p1224 N84-17996
Factorization using the quadratic sieve algorithm
[DE84-004140] 09 p1379 N84-19010
An algorithm for additive representation of positive integers
[ISSN-0355-0087] 12 p1892 N84-22325
New very large amicable pairs
[MC-NW-153/83] 14 p2215 N84-24303
Modelling with integer variables
[AD-A140212] 16 p2549 N84-26363
On square-full integers in a short interval
[MATHS-RES-170] 23 p3818 N84-34212
A systolic algorithm for integer GCD computation
[AD-A144409] 24 p3951 N84-35019

INTEGRAL EQUATIONS
NT FREDHOLM EQUATIONS
NT J INTEGRAL
NT VOLTERRA EQUATIONS
A lifting surface theory in rotational flow
[NASA-CR-172233] 01 p0002 N84-10017
A numerical method for solving by approximation an advanced integro-differential equation
[INPE-2826-PRE/379] 02 p0279 N84-11830
Transition flow ion transport via integral Boltzmann equation
[UTIAS-269] 03 p0432 N84-12828
FACET: A radiation-view-factor computer code for axisymmetric, 2D planar and 3D geometries with shadowing
[DE84-000359] 04 p0581 N84-13835
Splines and the Galerkin method for solving the integral equations of scattering theory
[CSIR-TWISK-267] 04 p0586 N84-13873
The plane stress/strain analysis of non-homogeneous continua by the boundary integral equation method
[TR-821S] 04 p0587 N84-13880
Transient waveform synthesis for radar target discrimination 05 p0664 N84-14366
A study of magnetotelluric fields in laterally inhomogeneous Earth models 05 p0671 N84-14413
Volume integrals associated with the inhomogeneous Helmholtz equation. Part 1: Ellipsoidal region
[NASA-CR-3749] 05 p0689 N84-14525
Volume integrals associated with the inhomogeneous Helmholtz equation. Part 2: Cylindrical region; rectangular region
[NASA-CR-3750] 05 p0689 N84-14526
Three-dimensional magnetotelluric interpretation 05 p0706 N84-14632
Computation of steady internal flows using integral representation methods with finite series expansions 06 p0833 N84-15418
Least-square iterative techniques for solving integral equations
[PB83-166751] 06 p0903 N84-15864
Elements of functions of a complex variable 06 p0906 N84-15881
Numerical simulation of stalling flows by an integral equation method 07 p0956 N84-16199
Computing the three dimensional boundary layer in a compressor 07 p0956 N84-16200
ARIES: A computer program for the solution of first kind integral equations with noisy data
[DE84-003908] 07 p1056 N84-16838
Splines and a three-body separable expansion for scattering problems
[CSIR-TWISK-291] 07 p1059 N84-16863
A comparative survey of numerical methods for the linear generalized Abel integral equation
[MC-NW-155/83] 07 p1065 N84-16915
On modifications of the Zakharov equation for surface gravity waves
[AD-A135050] 08 p1217 N84-17943
Numerical solution of singular integral equations arising in mixed boundary value problems of elasticity
[AD-A134673] 08 p1220 N84-17965
Numerical computation of steady state scattered sound external to submerged infinite cylinders by combining finite element and integral equation methods
[AD-A134773] 08 p1227 N84-18020
Computational solution of random equations
[AD-A136418] 09 p1375 N84-18978
Numerical solutions to ill-posed and well-posed impedance boundary condition integral equations
[AD-A137353] 10 p1479 N84-19664
Linear longitudinal oscillations in collisionless plasma diodes with thin sheaths. Part 2: Application to an extended pierce-type problem
[AD-A136963] 10 p1585 N84-20389
Finite deformation of viscoelastic disks
[DE84-002795] 12 p1827 N84-21908
The changing scene in computational fluid dynamics
[AD-A138661] 13 p1989 N84-22914
Wrinkled-flame calculations revisited
[AD-P002973] 14 p2201 N84-24209
Extension in Hardy classes of holomorphic functions and Carleson measures estimates for the bar delta equation 14 p2210 N84-24268
On the almost periodicity of the solutions of an integrodifferential equation
[AD-A139312] 14 p2213 N84-24293
A finite element method for the gas dynamics equations in 2 dimensions and in conservation form
[AD-A139774] 15 p2333 N84-25009
The numerical treatment of linear integrodifferential equations
[HMI-B-381] 15 p2399 N84-25398
Effective viscosity of a periodic suspension
[AD-A140463] 16 p2493 N84-25995
Nonlinear wave propagation
[AD-A141098] 19 p3004 N84-29038
The statistical theory of the fracture of fragile bodies. Part 2: The integral equation method
[NASA-TM-77449] 19 p3035 N84-29250
Applications of the variational integral in iterative numerical solutions to the stationary heat equations
[AD-A141091] 19 p3063 N84-29563
On a class of quasilinear partial integrodifferential equations with singular kernels
[AD-A141700] 19 p3067 N84-29595
Numerical solutions of non-uniquely solvable integral equations using finite rank modifications
[AD-A142149] 19 p3069 N84-29610
Calculation of electromagnetic fields on the surface of and inside cavities — nuclear explosion effects
[SNIAS-841-422-108] 21 p3388 N84-31506
Transient 3-dimensional thermoelasticity by the integral equations method
[CETIM-11-B-071] 21 p3424 N84-31717
Broadside radar cross section of the perfectly conducting cube
[AD-A143321] 22 p3577 N84-32656
Implicit function method for the Liouville equation
[DE84-013282] 22 p3650 N84-33140

Transonic viscous-inviscid interaction using Euler and inverse boundary-layer equations
23 p3668 N84-33376
Some inherently 3-dimensional problems in linear elastic fracture mechanics
23 p3759 N84-33828
On the integrals of the n-body problem
23 p3819 N84-34220
A few necessary considerations for the use of the finite element methods by non-specialists
[INPE-3238-PRE/586] 24 p3949 N84-35005

INTEGRAL FUNCTIONS
U ENTIRE FUNCTIONS

INTEGRAL TRANSFORMATIONS
NT CONVOLUTION INTEGRALS
NT FAST FOURIER TRANSFORMATIONS
NT FOURIER TRANSFORMATION
NT HILBERT TRANSFORMATION
NT LAPLACE TRANSFORMATION
Reduction of structural complexity in evaluating convolutions by polynomial transforms
[FUB-59-1981] 03 p0426 N84-12794
Geometric interpretations of the Discrete Fourier Transform (DFT)
[NASA-TP-2332] 14 p2189 N84-24114
A Finite Integral Transform (FIT) method for differential equations having asymptotic solutions
[AD-P002958] 14 p2200 N84-24198
On the A-integrability of singular integral transforms
22 p3635 N84-33042

INTEGRALS
Applied J-integral in HY130 tensile panels and implications for fitness for service assessment
[PB83-240598] 02 p0198 N84-11290
Volume integrals associated with the inhomogeneous Helmholtz equation. Part 1: Ellipsoidal region
[NASA-CR-3749] 05 p0689 N84-14525
Volume integrals associated with the inhomogeneous Helmholtz equation. Part 2: Cylindrical region; rectangular region
[NASA-CR-3750] 05 p0689 N84-14526
The hydrogen molecule for a two-dimensional system — doped semiconductors
[INPE-2981-PRE/443] 07 p1071 N84-16958
Randomized estimators for time integrals
[AD-A137921] 11 p1714 N84-21180
Estimates of one-dimensional oscillatory integrals
13 p2032 N84-23179
Annals of the Fourier Institute, volume 33, no. 3
[ISSN-0373-0956] 14 p2210 N84-24264
Unfoldings of foliations with multiform first integrals
14 p2210 N84-24269
Kinetic theory of gases, magneto-fluid dynamics and their application
[AD-A139616] 15 p2332 N84-25007
Approximating multiple ITO integrals with Band limited processes
[AD-A140417] 16 p2550 N84-26364
Calculation of Legendre functions on the cut for integral order and complex degree by means of Gauss continued fractions
[AD-A139630] 17 p2758 N84-27506
Resolution of singularities of integral quadratic forms
[CTH-MATH-1983-22] 17 p2761 N84-27538
Finite element solution of a self-adjoint transport equation in one dimension
[AD-A141225] 18 p2926 N84-28557
On the scattering of electromagnetic waves by perfectly conducting bodies moving in vacuum. Part 3: Representations of sufficiently smooth solutions of Maxwell's equation and of the scattering program
[AD-A141584] 19 p3005 N84-29050
Analysis of an integration method for rapidly oscillating integrands
[AD-A141731] 19 p3087 N84-29598
Abelian integrals and bifurcation theory
[AD-A142198] 19 p3089 N84-29613
An integral prediction method for three-dimensional flow separation
[AD-A142551] 20 p3184 N84-30231

INTEGRATED CIRCUITS
NT LARGE SCALE INTEGRATION
NT LINEAR INTEGRATED CIRCUITS
NT TTL INTEGRATED CIRCUITS
NT VERY LARGE SCALE INTEGRATION
NT VHSIC (CIRCUITS)
Restructurable VLSI program
[AD-A131246] 01 p0072 N84-10472
Gate array layout using CADDS 2
[DE83-014840] 01 p0075 N84-10491
Polyimides for use in integrated circuits
[DE83-016769] 02 p0201 N84-11310
Global wiring strategy for IC and PC routing
[DE83-009934] 02 p0215 N84-11412
Development of technologies for highly integrated circuits
[BMFT-FB-T-83-142] 02 p0216 N84-11417
Monolithic integrated analog switching arrays
[BMFT-FB-T-83-146] 02 p0216 N84-11418
Walk-through survey report: Control technology for integrated circuit fabrication, Xerox Corporation, El Segundo, California
[PB83-239053] 03 p0359 N84-12333
Alternative transmission media for third-generation interface standards
[PB83-236345] 03 p0363 N84-12365
Development of instrumentation for monitoring carbon fiber emission
[PB83-233726] 03 p0378 N84-12460
Microwave monolithic integrated circuit development for future spaceborne phased array antennas
[NASA-TM-83516] 04 p0517 N84-13399
ESD evaluation of radiation-hardened, high-reliability CMOS and MNOS ICs
[DE84-000138] 04 p0529 N84-13481
A knowledge based approach to VLSI CAD
[AD-A133692] 05 p0675 N84-14434
Basic EMC technology advancement for c3 systems. Volume 2A: Macromodels of op amps for CADA applications
[AD-A133661] 05 p0675 N84-14435
Dielectric resonators for use in microwave and millimeter-wave GaAs circuits
[AD-A132681] 05 p0675 N84-14440
Semiconductor measurement technology: A FORTRAN program for analysis of data from microelectronic test structures
[PB83-263764] 05 p0677 N84-14454
A clocking discipline for two-phase digital integrated circuits
05 p0677 N84-14455
Laser photodeposition and photoetching study
[AD-A134095] 05 p0752 N84-14934
Laser and electron beam processing of semiconductors: CW beam-recrystallized polysilicon as a device-worthy material
[AD-A133759] 05 p0753 N84-14942
Joint services electronics program
[AD-A132992] 05 p0754 N84-14948
Proceedings of Symposium on Surface Science and its Industrial Implications
[ISBN-0-7968-2417-4] 06 p0814 N84-15298
Integrated circuit failure mechanism detected by IMMA
06 p0815 N84-15305
Organometallic epitaxy for GaAs/AlGaAs microwave transistors and integrated circuits
[AD-A133569] 06 p0923 N84-16001
Logic simulator program 06 p0927 N84-16023
LEC GaAs for integrated circuit applications
[NASA-CR-173267] 07 p1079 N84-17014
V-band integrated quadriphase modulator
[NASA-CR-175159] 08 p1149 N84-17480
GaAs FET logic at low temperatures
[AD-A135007] 08 p1150 N84-17483
Research in VLSI systems. Heuristic programming project and VLSI theory project. A fast turn around facility for very large scale integration (VLSI)
[AD-A134809] 08 p1151 N84-17494
Environmental factors as a source of failure in integrated circuits
08 p1168 N84-17604
Foundations of computer science 4. Distributed systems. Part 2: Semantics and logic
[MATH-CENTRE-TRACTS-159-PT-2]
08 p1206 N84-17879
Partially ordered computations with applications to VLSI design
08 p1206 N84-17880
Advanced on-board signal processor GaAs memory
[AD-A135465] 08 p1210 N84-17890
Luneburg lens and optical matrix algebra research
[NASA-CR-172276] 08 p1231 N84-18047
VLSI (Very Large Scale Integrated) design of a 16 bit very fast pipelined carry look ahead adder
[AD-A136356] 09 p1306 N84-18540
Princeton VLSI project
[AD-A136551] 09 p1307 N84-18546
Princeton VLSI project
[AD-A136553] 09 p1308 N84-18548
LSI (Large Scale Integrated) design for testability: Design, demonstration and testability analysis
[AD-A135899] 09 p1308 N84-18550
A structured design methodology for VLSI systems
[AD-A135725] 09 p1308 N84-18554
Monolithic ZnO SAW (Surface Acoustic Waves) structures
[AD-A135987] 09 p1309 N84-18557
Simulation tools for digital LSI (Large Scale Integration) design
[AD-A136116] 09 p1369 N84-18938
Investigation of metallic impurities introduced into SiO/sub 2
[AD-A136008] 09 p1396 N84-19117
Signal processing applications of systolic array technology (extended summary)
09 p1399 N84-19139
Digital signal processing structures for VLSI
09 p1401 N84-19149
VLSI signal processing: Basis for cooperation
09 p1403 N84-19168
Impact of electrostatics on IC (integrated Circuit) fabrication
[AD-A137372] 10 p1486 N84-19713
Army digital test requirements analytic report
[AD-A137394] 10 p1486 N84-19714
Research in VLSI systems
[AD-A137398] 10 p1486 N84-19715
Theoretical-experimental analysis of the effects of grain boundaries on the electrical properties of SOI (Silicon-On-Insulator) MOSFETS
[AD-A136975] 10 p1486 N84-19718
Development of technology, circuit design and simulation procedures for Very Large Scale Integration (VLSI) systems, volume 1
[BMFT-FB-T-83-170-VOL-1] 10 p1487 N84-19724
Development of technology, circuit design and simulation procedures for Very Large Scale Integration (VLSI) systems, volume 2
[BMFT-FB-T-83-170-VOL-2] 10 p1487 N84-19725
New digital Integrated Circuit (IC) concept for color TV receivers
[BMFT-FB-T-83-261] 10 p1488 N84-19729
Vibration challenges in microelectronics manufacturing
10 p1508 N84-19870
GaAs gigabit monolithic optoelectronic transmitter
[AD-A136894] 10 p1589 N84-20413
Integrated filters in MOS technology — CMOS
[BMFT-FB-T-83-194] 10 p1590 N84-20419
The 30-GHz monolithic receive module
[NASA-CR-168326] 11 p1642 N84-20737
On the relation between wire length distributions and placement of logic on master slice ICs
[AD-A137848] 11 p1647 N84-20768
Center for Electronics and Electrical Engineering Technical Progress Bulletin covering center programs, October - December 1982
[PB84-137322] 11 p1705 N84-21115
Circuit transmission integrity of plenum cables in a developing fire scenario 11 p1726 N84-21262
Product assurance technology for procuring reliable, custom LSI/VLSI electronics
[NASA-CR-173405] 12 p1812 N84-21810
Reliability assurance using test structures, phase 2 — MOS testing
[ESA-CR(P)-1827-VOL-1] 12 p1825 N84-21894
Reliability assurance using test structures, phase 3 — MOS testing
[ESA-CR(P)-1827-VOL-2] 12 p1825 N84-21895
Computer modeling of complete IC fabrication process
[AD-A138006] 12 p1879 N84-22247
An approach for multilayer PCB (Printed circuit boards) design with automatic routing
[AD-A138072] 12 p1880 N84-22255
PLAFST programmable logic array from state table
[AD-A138466] 12 p1883 N84-22275
Integrated-optical approaches to matrix multiplication
12 p1906 N84-22418
Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-256704-1] 13 p1985 N84-22884
Electrical, chemical, and microstructural characterization of gettering mechanisms for VLSI (Very Large Scale Integrated Circuits)
[AD-A138662] 13 p1986 N84-22893
Latchup window tests
[AD-A138680] 13 p1986 N84-22894
The synthesis and validation of experimental VLSI design using decoupled behavioral, structural and physical specifications 13 p1987 N84-22902
Thomson semiconductors bipolar IC strategy to 1986
13 p2039 N84-23227
Fine line electromigration. The effect of crossed thermal gradients
[AD-A138854] 13 p2046 N84-23279
New integrated circuit technology
14 p2136 N84-23804
Some difficulties developing a large-scale research grade CAD program for a production environment
[DE84-005549] 14 p2142 N84-23845
Micropower CMOS implementation of three-valued logic functions
[AD-P002333] 14 p2190 N84-24124
The synthesis of ternary functions under fixed polarities and ternary I-2L circuits
[AD-P002381] 14 p2196 N84-24172
Ion implanted GaAs IC. Process technology
[AD-A139348] 14 p2242 N84-24461
Impurity and defect interactions in GaAs
[AD-A139592] 14 p2243 N84-24465
Fault tolerant spaceborne computer
15 p2266 N84-24607

Design considerations for a monolithic, GaAs, dual-mode, QPSK/QASK, high-throughput rate transceiver
[NASA-CR-173560] 15 p2327 N84-24974
LSI/VLSI (Large Scale Integration/Very Large Scale Integration) ion implanted GaAs (Gallium Arsenide) IC processing
[AD-A139676] 15 p2328 N84-24979
The MOSIS (MOS Implementation) system (What it is and how to use it)
[AD-A139744] 15 p2418 N84-25517
Generic specification for hybrid microcircuits
[ESA-PSS-01-608-ISSUE-1] 16 p2484 N84-25931
Installation and evaluation of SPLICE
[AD-A140170] 16 p2484 N84-25933
Analysis of operation of frequency synthesizer of television receiver with micro-electronic computer in a control circuit 17 p2632 N84-26840
Improvement in analog error autocorrection circuit 17 p2634 N84-26855
West Europe report: Science and technology
[JPRS-WST-84-018] 17 p2640 N84-26888
Application of sputtering technology to microwave integrated circuit fabrication 17 p2653 N84-26965
Defects at electrode-oxide and electrode-silicon interfaces in VHSI device structures
[AD-A140814] 17 p2663 N84-26990
Microelectronic components development in seventh 5-year plan described 18 p2827 N84-27947
Adaptive topological configuration of an integrated circuit/packet-switched computer network
[AD-A141309] 18 p2830 N84-27966
Thermoelectric temperature control system for the pushbroom microwave radiometer (PBMR)
[NASA-TM-85824] 18 p2836 N84-28000
Variable pulse width piezoelectric ultrasonic transducer driver
[AERE-R-11071] 18 p2845 N84-28064
New integrated circuit casing 18 p2918 N84-28504
Development of standardized specifications for screening space level integrated circuits and semiconductors
[NASA-CR-171100] 19 p3012 N84-29093
High density circuit technology, part 1
[NASA-CR-162008] 19 p3012 N84-29094
Research in computer simulation of integrated circuits
[AD-A141855] 19 p3013 N84-29101
Integration of monolithic microwave integrated circuits into phased array antenna systems
[AD-P003403] 19 p3014 N84-29107
VLSI research
[AD-A142142] 19 p3016 N84-29119
DOE workshop on computer-aided engineering: Abstracts
[DE84-001084] 19 p3079 N84-29538
Application of asymptotic methods of theoretical computer science and combinatorics to problems in the design of VLSI circuits
[AD-A142262] 19 p3090 N84-29617
Measurement techniques using ultrashort optical pulses
[DE84-009241] 19 p3105 N84-29728
MMIC technology for advanced space communications systems
[NASA-TM-83749] 20 p3173 N84-30147
Modeling and extraction of interconnect parameters in very-large-scale integrated circuits
[AD-A142381] 20 p3178 N84-30182
Gate arrays — integrated circuits
[AD-B082958] 20 p3182 N84-30214
Multi-criteria approach to selection of optimal connections in large-scale integrated circuits 21 p3378 N84-31436
Measurement of integrated circuit element dimensions taking into account real etching profile according to diffraction pattern 21 p3378 N84-31437
Modelling of transfer processes in monopolar semiconductor structures with submicron dimensions 21 p3381 N84-31453
The 20 and 30 GHz MMIC technology for future space communication antenna system
[NASA-TM-83745] 21 p3382 N84-31460
Monolithic microwave integrated circuits: Interconnections and packaging considerations
[NASA-TM-83774] 21 p3382 N84-31461
Thermodynamic field theory of the dynamic behavior of bipolar junction transistors 21 p3390 N84-31510
Princeton VLSI project
[AD-A142959] 21 p3391 N84-31521
Development of thermionic integrated circuits for applications in hostile environments
[DE84-011374] 21 p3393 N84-31533
Continuation of research in computer simulation of integrated circuits
[AD-A143005] 21 p3465 N84-31970
A simple algorithm for the metric traveling salesman problem 22 p3573 N84-32631
Phase shift keying apparatus
[AD-D011119] 22 p3577 N84-32660
Method for making Josephson junctions with contamination-free interfaces utilizing a ZNO contact insulator
[AD-D011057] 22 p3580 N84-32671
Monolithic integrated antenna systems
[AD-A143184] 22 p3586 N84-32708
Research in monolithic, signal-processing circuits
[AD-A143204] 22 p3586 N84-32709
Wafer-scale laser pantography. Part 6: Direct-write interconnection of VLSI gate arrays
[DE84-012676] 22 p3601 N84-32815
Test procedures and design methods for reliable large scale integrated circuits and systems
[AD-A143324] 22 p3638 N84-33061
RLE Progress Report no. 126
[RLE-PR-126] 22 p3681 N84-33336
Monolithic SAW oscillators on silicon
[AD-A143664] 23 p3741 N84-33716
Optical computing research
[AD-A143994] 23 p3825 N84-34258
New markets for integrated circuits firms in UK, France and West Germany 24 p3891 N84-34636
Monolithic microwave integrated circuit devices for active array antennas
[NASA-CR-173961] 24 p3897 N84-34675
VLSI (Very Large Scale Integrated) self-testing using exhaustive bit patterns
[AD-A144299] 24 p3898 N84-34681
Joint services electronics program
[AD-A144445] 24 p3898 N84-34685

INTEGRATED ENERGY SYSTEMS
Economic competitiveness of fuel cell onsite integrated energy systems
[NASA-TM-83403] 01 p0102 N84-10665
Super integrated power unit for fighter aircraft 03 p0335 N84-12183
IPACS attitude control technology considerations 03 p0345 N84-12238
Flywheel electronics 03 p0345 N84-12239
IPACS electronics: Comments on the original design and current efforts at Langley Research Center 03 p0345 N84-12240
Power system considerations and test activities 03 p0345 N84-12244
IPACS guidance navigation and control system considerations and test activities 03 p0346 N84-12245
Integrated Computer-Aided Manufacturing (ICAM) architecture. Part 3, Volume 6: Composite information model of 'Manufacture product' (MFG1)
[AD-A143072] 21 p3466 N84-31973

INTEGRATED LIBRARY SYSTEMS
NASA Scientific and Technical Information System (STI) and new directory of numerical data bases 11 p1749 N84-21413

INTEGRATED OPTICS
Thin-film guided-wave devices for integrated/fiber optic signal processing and communications
[AD-A129582] 01 p0152 N84-11001
Fundamentals and physical limits of holographic memories with and without associative recall
[BMFT-FB-DV-83-002] 02 p0225 N84-11475
Luneburg lens and optical matrix algebra research
[NASA-CR-172276] 08 p1231 N84-18047
Basic research in electronics (JSEP) Joint Services Electronics Program
[AD-A136290] 09 p1306 N84-18538
Optical analog & hybrid computer solution of partial differential equations
[AD-A137028] 10 p1571 N84-20291
Fiber optic sensors
[NASA-TM-77404] 14 p2224 N84-24348

INTEGRATION (REAL VARIABLES)
U MEASURE AND INTEGRATION

INTEGRATORS
NT DIGITAL INTEGRATORS
Comparison of six integrators used in long-term radar integrations
[AD-A141536] 19 p3005 N84-29046
Electronic cancelling of acoustic traveling waves
[AD-D011153] 23 p3735 N84-33667

INTEGRITY
NT COMPUTER PROGRAM INTEGRITY
Integrity control of carbon fiber reinforced plastics structural elements, phase 1 report — space applications
[TB-TS-11-01/82-A] 09 p1289 N84-18416
AGARD Highlights, March 1984
[AGARD-HIGHLIGHTS-84/1] 12 p1763 N84-21498
An introduction to the avionics integrity program
[AD-P003565] 21 p3336 N84-31170
Deduction in nonhorn databases 22 p3670 N84-33263

INTEGRODIFFERENTIAL EQUATIONS
U DIFFERENTIAL EQUATIONS
U INTEGRAL EQUATIONS

INTEL 8080 MICROPROCESSOR
Implementation of self-tuning controllers 07 p1057 N84-16847

INTELLIGENCE
NT ARTIFICIAL INTELLIGENCE
NT EXPERT SYSTEMS
NT EXTRATERRESTRIAL INTELLIGENCE
Operational test and evaluation of the meter engineering development model
[AD-A125166] 07 p1007 N84-16532
The role of relevant experience and intellectual ability in determining the performance of military leaders: A contingency model explanation
[AD-P003303] 18 p2909 N84-28448
Age effects on active duty Army MMPI (Minnesota Multiphasic Personality Inventory) profiles
[AD-P003343] 18 p2911 N84-28464
Using interactive computing to expand intelligence testing: A critique and prospectus
[AD-A141657] 19 p3072 N84-29489
The feasibility, practicality and utility of P-3 inflight refueling
[AD-A143419] 22 p3535 N84-32982

INTELLIGIBILITY
NT SPEECH RECOGNITION
Processing techniques for intelligibility improvement to speech with co-channel interference
[AD-A135702] 09 p1302 N84-18508
The Lincoln low-rate vocoder: A 1200/2400 bps LPC-10 voice terminal
[AD-A141291] 18 p2829 N84-27963
Voice communication and positive pressure breathing in noise
[AD-A141303] 18 p2830 N84-27965
Narrowband (LPC-10) vocoder performance under combined effects of random bit errors and jet aircraft cabin noise
[AD-A141333] 18 p2830 N84-27967

INTELSAT SATELLITES
The technical, economic and institutional feasibility of customer premises Earth stations for INTELSAT service
[PB84-128404] 10 p1484 N84-19703
Ariane V8 - Intelsat V F8 16 p2456 N84-25746
The advisability of competitive international satellites
[AD-A140188] 16 p2456 N84-25750
Perspectives on European satellite communications 23 p3732 N84-33659
Comparative performance assessment of INTELSAT 5 nickel hydrogen and nickel cadmium batteries 23 p3740 N84-33704
Domestic satellite communication system to be established in China 24 p3891 N84-34635

INTENSIFICATION
U AMPLIFICATION

INTENSIFIER TUBES
U IMAGE INTENSIFIERS

INTENSIFIERS
NT IMAGE INTENSIFIERS

INTENSITY
Tests for an increasing trend in the intensity of a Poisson process: A power study
[AD-A131213] 02 p0295 N84-11867
Fundamental and harmonic emission in interplanetary type 2 radio bursts
[NASA-TM-86099] 20 p3320 N84-31079
Eye safe laser transmitter
[AD-D011145] 22 p3597 N84-32779
Tropical cyclone intensity analysis using satellite data
[NOAA-TR-NESDIS-11] 23 p3800 N84-34096

INTERACTIONAL AERODYNAMICS
Supersonic jet-cavity interaction pulsation 21 p3485 N84-32089

INTERACTIONS
Laser interaction with metallic surfaces
[AD-A126269] 03 p0378 N84-12464
Simulations of galaxy mergers 03 p0464 N84-13054
Interactive implementation of the optimal systems control design program (OPTSYSX) on the IBM 3033
[AD-A144159] 24 p3948 N84-35000

INTERACTIVE CONTROL
FORTH: An unconventional programming language
[INPE-2894-PRE/413] 04 p0578 N84-13813
An interdisciplinary oceanographic database
[CSIR-T/SEA-8207] 04 p0616 N84-14064
Management and display of data analysis environments for large data sets
[DE84-001414] 04 p0616 N84-14069
AESOP: An interactive computer program for the design of linear quadratic regulators and Kalman filters
[NASA-TP-2221] 07 p1057 N84-16843

Primer for the Transportable Applications Executive
[NASA-TM-86062] 09 p1367 N84-18921
GENIE: A computer-based task for experiments in human-computer interaction
[AD-A137473] 10 p1553 N84-20181
Interactive structural-thermal-control analytical formulations — large space structures
12 p1781 N84-21619
BETA: A program for calculating and archiving backscattering profiles taken with the NOAA National Oceanic and Atmospheric Administration) coherent lidar system
[PB84-150168] 14 p2177 N84-24040
Interactive programming
[AD-A141186] 18 p2921 N84-28525
Meteorological interactive data display system (MIDDA)
[AD-A141864] 19 p3059 N84-29406
An assessment of interactive graphics processing in short-range terminal weather forecasting
[AD-A142706] 20 p3246 N84-30601
Non-imaging software/data analysis requirements
23 p3843 N84-34379

INTERACTIVE GRAPHICS
U COMPUTER GRAPHICS

INTERATOMIC FORCES
Interaction potentials in substitutional solid solutions
[BLL-M-95132-(5828.4)] 01 p0152 N84-10998

INTERCALATION
Intercalated graphite electrical conductors
01 p0010 N84-10064
Structure and properties of intercalated graphite fiber-polymer composites
[AD-A130832] 01 p0032 N84-10196
Investigation of the electrochemical formation of Li-C intercalation compounds
[AD-A130879] 01 p0037 N84-10233
Topics in graphite intercalation chemistry with applications to fiber reinforced composites
05 p0646 N84-14248
Magnetic properties of CoCl2-intercalated graphite
[AD-A133660] 05 p0648 N84-14260
A model for superconductivity in graphite intercalation compounds
[AD-A133662] 05 p0753 N84-14937
Development of new intercalated cathode materials for use in sodium batteries
[NASA-CR-173145] 07 p0997 N84-16460
Intercalation compounds: A new class of materials as advanced solid lubricants (wear life studies and differential thermal analysis)
[AD-A137424] 10 p1466 N84-19576
Syntheses and characterization of novel graphite intercalation compounds with inorganic fluorides
[AD-A140801] 17 p2619 N84-26782
X-ray diffuse scattering 22 p3682 N84-33341

INTERCEPTION
Suboptimal missile evasion through a sensitivity analysis of proportional guidance to target evasion maneuvers
[AD-A136803] 10 p1428 N84-19338

INTERCEPTOR AIRCRAFT
U FIGHTER AIRCRAFT

INTERCONNECTION
U JOINING

INTERCONTINENTAL BALLISTIC MISSILES
NT MINUTEMAN ICBM
NT MX MISSILE
The strategic balance, the MX-system and deficiencies in the SALT Treaty
[FOA-C-10207-M3] 07 p0962 N84-16235
A turbomechanical thrust vector control for advanced intercontinental ballistic missiles
20 p3143 N84-29953

INTERFACE STABILITY
Instability of the flow of two immiscible liquids with different viscosities in a pipe
[AD-P002935] 14 p2196 N84-24175
Nonuniqueness and stability of the configuration of flow of immiscible fluids with different viscosities
[AD-P002937] 14 p2196 N84-24177
Schottky barrier photoelectrodes with a variable barrier height
[AD-A141813] 19 p3111 N84-29765
Introduction to composite materials
[AD-A144274] 24 p3879 N84-34578

INTERFACES
NT FLUID BOUNDARIES
NT GAS-SOLID INTERFACES
NT LIQUID-LIQUID INTERFACES
NT LIQUID-SOLID INTERFACES
NT LIQUID-VAPOR INTERFACES
NT SOLID-SOLID INTERFACES
Vulcanizate structure of isoprene chloroprene rubber combination
[CSIR-TRANS-1646] 01 p0048 N84-10312
Interface bonding of shotcrete reinforced brick masonry assemblages, volume 1
[PB83-223206] 01 p0058 N84-10382
Interface bonding of shotcrete reinforced brick masonry assemblages. Volume 2: Appendices
[PB83-223214] 01 p0059 N84-10383
Singularities at the tip of a crack normal to the interface of an anisotropic layered composite
[AD-A131504] 01 p0096 N84-10625
Memory-mapped CAMAC branch driver
[DE83-016084] 01 p0119 N84-10775
Electronic properties of semiconductor interfaces
[AD-A130745] 01 p0152 N84-11002
Rays and modes on concave surfaces
[AD-A131411] 02 p0210 N84-11371
Geometries for roughness shapes in laminar flow
[NASA-CASE-LAR-13255-1] 03 p0320 N84-12092
Spacecraft interface design and its impact on operational support
[ESA-STR-211] 03 p0342 N84-12220
Inference of fatigue-crack closure stresses from ultrasonic-transmission measurements
[DE83-017684] 03 p0390 N84-12547
Review of the ANSI metafile and virtual device interface standardization activities
[DE83-015925] 03 p0419 N84-12737
Using PAFEC as a preprocessor for COSMIC/NASTRAN
[DE83-017179] 03 p0421 N84-12755
Application of surface-physics techniques to the study of electrochemical systems
[DE84-000957] 04 p0494 N84-13245
Signal processor interface simulation of the AN/SPY-1A radar controller
[AD-A132170] 04 p0522 N84-13429
The FASTBUS segment driver microcode description
[DE83-017972] 04 p0523 N84-13437
INTAC: A computer-aided test interface
[INPE-2792-TDL/138] 04 p0524 N84-13446
Logic design of a shared disk system in a multi-micro computer environment
[AD-A132165] 04 p0585 N84-13862
A high performance fiber optic telemetry link for use in a space radiation simulator
[AD-A132738] 05 p0643 N84-14232
Structure and phase transitions in bromine and potassium-mercury intercalated graphite
[AD-A133863] 05 p0645 N84-14244
Defense data network subscriber interface guide
[AD-A132877] 05 p0670 N84-14406
Control of the HP3325 frequency synthesizer by a PDP 11 computer for gravitational experiments — gravitational antennas, geophysical studies
[IFSI-83-9] 05 p0683 N84-14492
General Purpose Electronic Test Equipment (GPETE) acquisition considerations for automated calibration
[AD-A133865] 05 p0718 N84-14709
USERSIN: An interactive user-interface for FORTRAN SIN
[MRL-R-877] 05 p0721 N84-14728
Interface specifications for the SCR (A-7E) application data types module
[AD-A132717] 05 p0729 N84-14785
Modeling the user in intelligent user interfaces
[DE84-012664] 05 p0730 N84-14795
Connecting aircraft and external loads
06 p0770 N84-15046
AFTI/F-16: An integrated system approach to combat automation
06 p0773 N84-15063
The man-machine interface in new generation commercial aircraft
06 p0777 N84-15096
Numerical electromagnetics code. Method of moments. User's guide supplement for NEC-3 for modeling buried wires
[DE84-002195] 06 p0825 N84-15382
Numerical methods for tracking interfaces
[DE84-001730] 06 p0902 N84-15854
Problems at the interface between perturbative and nonperturbative quantum chromodynamics
[DE84-002375] 06 p0926 N84-16018
SEPAC: Spacelab Mission 1 report
[NASA-CR-170980] 08 p1107 N84-17196
Tribological characteristics of gold films deposited on metals by ion plating and vapor deposition
[NASA-TM-83572] 08 p1130 N84-17352
Acquisition systems for heat transfer measurement
[DE84-003779] 08 p1160 N84-17551
Model and analysis of a communication interface with distributed processing for application in a communication network by packet switching
[INPE-2773-TDL/136] 08 p1215 N84-17926
Princeton VLSI project
[AD-A136551] 09 p1307 N84-18546
Writing TSO (Time Sharing Option) commands in FORTRAN
[AD-A136584] 09 p1367 N84-18925
Analysis of reliable multicast algorithms for local networks
[AD-A135807] 09 p1369 N84-18935
Theoretical and experimental investigation of heterojunction interfaces
[AD-A135896] 09 p1395 N84-19111
Interface control document for RT-XXXX/ARC-164 UHF-AM radio
[AD-A136970] 10 p1481 N84-19681
AdaRel: A relational extension of Ada
[AD-A137108] 10 p1562 N84-20234
Architecture for a user interface management system
[DE84-003982] 11 p1710 N84-21146
Bell System lightguide cable interconnection equipment, central office to customer premises
11 p1720 N84-21219
General Purpose Bus Interface Unit (GPBIU) system test software design
[AD-A138005] 12 p1770 N84-21543
Satellite services handbook. Interface guidelines
[NASA-CR-171774] 12 p1777 N84-21597
Protocol standards and implementation within the digital engineering laboratory computer network (DELNET) using the universal network interface device (UNID). Part 2
[AD-A138119] 12 p1806 N84-21777
Modeling antennas near to and penetrating a lossy interface
[DE84-004785] 12 p1808 N84-21786
CAD/CAM data management
12 p1874 N84-22212
User-friendly interface to the Roth relational database
[AD-A138153] 12 p1877 N84-22234
Design and implementation of an Input/Output interface protocol for the INTEL 432/670 computer system
[AD-A138429] 12 p1883 N84-22273
DATMAN FORTRAN user's guide version 3.0
[PB84-149251] 12 p1885 N84-22289
Technology for the product and process data base
12 p1889 N84-22302
Product definition data interface
12 p1891 N84-22314
Data distribution in the NBS Automated Manufacturing Reseach Facility 12 p1891 N84-22315
Continued development of a universal network interface device using the Intel 8086 and 8089 16-bit microprocessors
[AD-A138118] 12 p1891 N84-22319
Structural and electronic properties of artificial metallic superlattices
[DE84-002771] 12 p1915 N84-22477
Utility of surface reaction entropies for examining reactant-solvent interactions at electrochemical interfaces. Ferricinium-ferrocene attached to platinum electrodes
[AD-A139055] 13 p1957 N84-22722
A method for evaluating the surface concentrations of 2 like-charged ions simultaneously adsorbed at an electrode-solution interface
[AD-A139074] 13 p1957 N84-22724
Effect of interfacial bonding on the strength of adhesion of elastomers. 3: Interlinking by molecular entanglements
[AD-A138760] 13 p1963 N84-22757
Contact-stress analysis of elastic-viscoelastic interface conditions
[AD-A138834] 13 p1964 N84-22759
Development of a generalized human-machine interface
[AD-P002888] 13 p1979 N84-22849
A man-machine interface concept for a state-of-art, shipboard, command/control console
[AD-P002894] 13 p1980 N84-22854
Surface acoustic wave resonators in layered substrates with large electromechanical coupling coefficient
13 p2039 N84-23230
Microscopic study of the influence of impurities on interface bonding
[AD-A139300] 14 p2120 N84-23705
Smart motor technology 15 p2349 N84-25096
Data exchange and transfer structures
[SNIAS-832-111-103] 15 p2391 N84-25347
Solid modeling at SNIAS
[SNIAS-832-111-106] 15 p2391 N84-25348
Deformation of bimetallic bicrystals of Alpha-Ti/Beta-Ti-13Mn
[AD-A140263] 16 p2469 N84-25822
Detonation parameters for Australian high-explosives composition
[MRL-R-822] 17 p2628 N84-26812
A specification technique for the common APSE (Ada programming support environments) interface set
[AD-A140689] 17 p2754 N84-27479
Space station needs, attributes and architectural options study. Volume 7-4B: Data book, architecture, technology and programmatics, part B
[NASA-CR-173685] 18 p2804 N84-27800

The PDS-VAX intelligent plate scanning system of Trieste Astronomical Observatory
18 p2841 N84-28035
Silicon foils growth by interface-controlled crystallization
18 p2937 N84-28628
Improved charge injection device and a focal plane interface electronics board for stellar tracking
[NASA-CR-171066] 19 p3012 N84-29092
Integration of monolithic microwave integrated circuits into phased array antenna systems
[AD-P003403] 19 p3014 N84-29107
Surface-enhanced Raman spectroscopy of electrochemically characterized interfaces. Transition-metal isothiocyanate adsorbates at silver adsorbates
[AD-A142407] 20 p3148 N84-29986
Experience with Ada (trademark) for the Graphical Kernel System
[AD-P003426] 20 p3271 N84-30758
Operating system interface for Ada (trademark) instructors
[AD-P003433] 20 p3272 N84-30765
Graphics language, version 2.2
[AD-A142438] 20 p3272 N84-30772
A programmable bus control interface
[AD-P003536] 21 p3332 N84-31140
Single chip MIL-STD-1553B bus interface unit keeps pace with chip sets
[AD-P003537] 21 p3332 N84-31141
MIL-STD-1553 interface application notes
[AD-P003539] 21 p3332 N84-31143
The KAPSE (Kernel Ada (Trademark) Programming Support Environment) interface team
[AD-P003557] 21 p3335 N84-31161
Defense industry attitudes about AF interface standards report of an electronics industries association survey
[AD-P003570] 21 p3337 N84-31175
Proposed MIL-STD for avionics installation interfaces
[AD-P003578] 21 p3338 N84-31183
Mathematical model for a simplified Bridgman-Stockbarger crystal growing system
[NASA-CR-171108] 21 p3504 N84-32202
Logical optimization for database uniformization
[NASA-CR-173836] 21 p3518 N84-32282
Radio frequency distribution assembly
[AD-A143575] 22 p3577 N84-32658
Interface standardization 22 p3584 N84-32700
Is structural interface standardization beneficial?
22 p3585 N84-32702
I/O channel interface
[NBS-FIPS-PUB-60-2] 22 p3637 N84-33057
Coupling of Rayleigh-like waves with zero sound modes in normal He-3
[DE84-010519] 22 p3653 N84-33153
Local electronic properties of semiconductor surfaces and interfaces
[DE84-013608] 22 p3666 N84-33239
Space station program description document: Introduction and summary, book 1
[NAS 1.15:86652-BK-1] 23 p3698 N84-33438
On the hierarchy of interfacial dislocation structure
[DE84-014160] 23 p3719 N84-33573
System design of a remotely operated, program controlled measurement table for the calibration of the Egret experiment. Part A: Program control
[NASA-TM-77758] 23 p3812 N84-34172
A standard organization for specifying abstract interfaces
[AD-A143787] 23 p3815 N84-34194
Networking 23 p3843 N84-34381
Solid state batteries, literature survey, analysis of pertinent results and prospective for further research
[AD-A144252] 24 p3897 N84-34879
Theory of the interface between a classical plasma and a hard wall
[DE84-701221] 24 p3966 N84-35111
Investigation of the MBE growth of InSb and novel quantum well structures
[AD-A144151] 24 p3967 N84-35117
Impurity states in the presence of an interface
[DE84-701192] 24 p3967 N84-35123

INTERFACIAL ENERGY
Ostwald ripening, interfacial energies and diffusion coefficients in monotectic systems
17 p2613 N84-26727
HgCdTe surface and defect study program
[AD-A142342] 20 p3308 N84-31010
Optical power source control system
[AD-D011124] 22 p3656 N84-33175

INTERFACIAL STRAIN
U INTERFACIAL TENSION

INTERFACIAL TENSION
Fingers in a Hele-Shaw cell with surface tension
[AD-A130548] 01 p0130 N84-10852
Numerical simulations of fuel droplet flows using a Lagrangian triangular mesh
[NASA-CR-168263] 03 p0370 N84-12411
Note on evaporation in capillaries
[AD-A132850] 05 p0650 N84-14275
Using the surface tension to estimate the condensate density of superfluid He-4
[DE83-011325] 08 p1236 N84-18077
Influence of surface tension and surface shear on final coat thickness in jet-stripped continuous coating of sheet materials
[AD-A136402] 09 p1314 N84-18586
Modal deformations and stresses — modal coupling methods
[ED-81-343/RD] 09 p1334 N84-18712
Interfacial tension between water and selected superheated liquids by quadrupole oscillations of drops
[AD-A136996] 10 p1455 N84-19502
Stability of the FMIT high speed, free surface liquid jet flowing along a curved wall
[DE84-003858] 10 p1494 N84-19767
Study of the effect of adsorbed ions on the electrosorption of organic molecules and the kinetics of formation of condensed films
[AD-A137892] 11 p1730 N84-21286
Matrix-dominated time-dependent deformation and damage of graphite/epoxy composite experimental data under creep and recovery
[AD-A139064] 13 p1954 N84-22704
An exactly solvable model for ideally polarizable interfaces
[AD-A138719] 13 p2033 N84-23182
The ideally polarizable interface: A solvable model and general sum rules
[AD-A138720] 13 p2036 N84-23207
A finite difference study of the stretching and break-up of filaments of polymer solutions
[AD-A139258] 14 p2130 N84-23767
The strength of the metal. Aluminum oxide interface
14 p2153 N84-23898
Composites for increased wear resistance: Current achievements and future prospects
14 p2154 N84-23904
Gravitational instability of an interface between two second-order fluids
15 p2314 N84-24887
Tribological applications of surface analysis
[NASA-TM-83707] 16 p2460 N84-25786
Penn State Get Away Special
18 p2799 N84-27759
Design and development of Shuttle Get-Away-Special experiment G-0074 — off-load capability for a full-tank propellant acquisition system
18 p2800 N84-27770
The effect of solidification rate on morphological stability
18 p2936 N84-28620
Thermally induced instabilities of two-layer fluid systems
22 p3592 N84-32745
Numerical solutions for cavitating flow of a fluid with surface tension past a curved obstacle
[AD-A144695] 24 p3901 N84-34704
Rising bubbles in a two-dimensional tube with surface tension
[AD-A144693] 24 p3953 N84-35031

INTERFERENCE
Half-model testing in the NLR high speed wind tunnel HST: Its technique and application
14 p2098 N84-23588
Adaptive arrays for satellite communications
[NASA-CR-173548] 15 p2320 N84-24924
Multiple-element threshold signal detection of underwater acoustic signals in nongaussian interference environments
[AD-A140620] 17 p2763 N84-27548
Use of space-diverse photoreceivers for analysis of interference patterns
21 p3377 N84-31429
Adaptive multibeam antenna array
21 p3377 N84-31430

INTERFERENCE DRAG
Engine/airframe interference drag at cruise conditions, using propulsion simulation
[NLR-TR-82012-U] 03 p0321 N84-12098
Interference drag in a simulated wing-fuselage juncture
[NASA-CR-3811] 20 p3126 N84-29853
Computer studies of hybrid-slotted working sections with minimum interference at subsonic speeds
[NASA-TM-86002] 22 p3535 N84-32379

INTERFERENCE GRATING
Dependence of holographic grating formation upon interference pattern orientation in bismuth silicon oxide
[AD-A138099] 12 p1818 N84-21852
Feasibility study on a new type of personal noise protection
[BMFT-FB-HA-84-017] 18 p2915 N84-28489

INTERFERENCE MONOCHROMATIZATION
U DIFFRACTION

INTERFEROGRAMS
U INTERFEROMETRY

INTERFEROMETERS
NT FABRY-PEROT INTERFEROMETERS
NT MACH-ZEHNDER INTERFEROMETERS
NT MICHELSON INTERFEROMETERS
NT MICROWAVE INTERFEROMETERS
NT RADIO INTERFEROMETERS
Velocity Interferometer System for Any Reflector (VISAR): Studies of wave growth in granular explosives
[DE83-013772] 02 p0204 N84-11330
Refractive index and equation of state of a shock-compressed aqueous solution of zinc chloride
[DE83-016302] 02 p0220 N84-11443
Gauge block laser meter development
[DE83-018288] 03 p0378 N84-12458
A saturable interferometer theory of absorptive optical bistability
14 p2236 N84-24435
Vacuum-deposited thin-film interferometers as bistable devices operating continuously at room temperature
14 p2241 N84-24453
Radiation pressure induced optical bistability
14 p2241 N84-24457
Radar interferometer measurements
17 p2688 N84-27114
Effects of spacecraft reflections on RF interferometer position location accuracy
[NASA-CR-175244] 18 p2828 N84-27955
Optical sensing devices
[AD-D011038] 19 p3105 N84-29725
Signal processor for remote optical interferometric sensors
[AD-D011045] 19 p3105 N84-29726
Detecting optical polarization of nuclei in semiconductors with super-conducting quantum interferometer
20 p3286 N84-30865
Signal waveform detector using synthetic FM demodulation
[AD-D011055] 22 p3572 N84-32618
Fiber optic magnetometer for the detection of dc magnetic fields without hysteretic ambiguity
[AD-D011085] 22 p3599 N84-32794
Optical fiber gyroscope with (3x3) directional coupler
[AD-D011152] 23 p3750 N84-33771

INTERFEROMETRY
NT HOLOGRAPHIC INTERFEROMETRY
NT LASER INTERFEROMETRY
NT MOIRE INTERFEROMETRY
NT VERY LONG BASE INTERFEROMETRY
Velocity interferometry for time-resolved high-velocity measurements
[DE83-013968] 01 p0088 N84-10577
Automated data reduction for optical interferometric data
[DE83-012075] 03 p0377 N84-12457
Test and demonstration of Macrometer (TM) model V-1000 interferometric surveyor
[PB83-239103] 03 p0402 N84-12631
Real time optical interferometric image addition and subtraction by wave polarization
[AD-A134125] 05 p0746 N84-14902
Automatic evaluation of interferograms
[NASA-TM-76953] 11 p1731 N84-21291
Measurement of fluid properties using rapid-double-exposure and time-average holographic interferometry
[NASA-TM-83630] 12 p1818 N84-21849
Spatial interferometry for white light processing: The coherence interferometer
12 p1905 N84-22407
Acoustically compensated two-wavelength interferometry for plasma density measurements: One-dimensional theory and applications
[DE84-007983] 14 p2229 N84-24368
The detection of faint space objects using solid state imaging detectors
[AD-A139297] 14 p2250 N84-24513
Development of an interferometric technique for reduction of background radiation at 10 micrometers
[AD-A140081] 15 p2408 N84-25455
Application of optical methods, including optical interference, to measure the dimensional stability of resins, resin based adhesives and resin based composites
[AD-A140297] 16 p2472 N84-25843
Study of VUV generation by coherent resonant frequency mixing in metal vapors
[AD-A140600] 17 p2663 N84-26989
Nonstationary oblique-shock-wave reflections in air
[UTIAS-270] 21 p3399 N84-31582
Development of a device for evaluation of interferograms
[BMFT-FB-T-84-097] 21 p3407 N84-31613
Preliminary experiments on phase conjugation for flow visualization — barium titanate single crystals
[NASA-TM-83766] 21 p3498 N84-32169
Interferometrically tuned laser resonator
[AD-D011125] 22 p3600 N84-32800

Atmosphere temperature profile recovery using partial interferometry
[AD-A144196] 24 p3919 N84-34810

INTERGALACTIC MEDIA
Microwave studies of hot intracluster gas
02 p0306 N84-12011
An X-ray survey of clusters of galaxies with the Einstein Observatory and a study of iron sedimentation in the intracluster gas 10 p1595 N84-20454
Ultraviolet study of the stellar population of the giant extragalactic HII region NGC 604
24 p3971 N84-35145
Quasars as probes of the intergalactic medium
24 p3972 N84-35154

INTERGRANULAR CORROSION
Effect of calcium hydroxide and carbonates on IGA and SCC of Alloy 600
[DE83-902229] 01 p0045 N84-10286
Design and construction of deep tubesheet crevice devices for producing intergranular attack of heat transfer tubing
[DE83-902228] 01 p0045 N84-10287
Characterization of alloy 600 surfaces after exposure to a caustic environment
[DE83-018297] 04 p0503 N84-13300
Effects of nominal and crack-tip strain rate on IGSCC susceptibility in CERT tests
[DE84-004006] 08 p1135 N84-17378
Evaluation of stainless steel pipe cracking: Causes and fixes
[DE84-003459] 09 p1285 N84-18391
Intergranular crack propagation rates in sensitized Type 304 stainless steel in an oxygenated water environment
[DE84-005311] 11 p1635 N84-20688
Solving corrosion problems with surface analysis
[DE84-008652] 20 p3154 N84-30025
Trace elements and residual elements in superalloys
23 p3705 N84-33487

INTERIM STAGES (SPACECRAFT)
NT INERTIAL UPPER STAGE

INTERIM UPPER STAGE (STS)
U INERTIAL UPPER STAGE

INTERIOR BALLISTICS
Modeled heating and surface erosion comparing motile (gas borne) and stationary (surface coating inert particle additives
[DE83-000597] 01 p0080 N84-10521
A calculation of descent segment of internal ballistics in solid rocket motors
[AD-A137199] 11 p1626 N84-20642
Closed vessel combustion studies of stick propellant
13 p1948 N84-22665
Flash X-ray with image enhancement applied to combustion events 13 p1948 N84-22666
Multiphase flow analysis of the ballistic performance of an anomalous LOVA propellant mix
13 p1950 N84-22679
A study on the prediction of the starting transient process of solid propellant rocket motors
[AD-A139453] 14 p2118 N84-23692
Three dimensional stress analysis of an artillery projectile joint
[AD-P002955] 14 p2199 N84-24195

INTERLACING DRAINAGE
U DRAINAGE PATTERNS

INTERLAYERS
NT MULTILAYER INSULATION
Evaluation of fabric interlayers
[PB83-253245] 05 p0664 N84-14363
Skin-stiffener interface stresses in composite stiffened panels
[NASA-CR-172261] 09 p1330 N84-18681
An industry test program for interlayer equivalency
[AD-P003200] 17 p2592 N84-26613
The need for application of dynamic mechanical analysis in the evaluation of interlayer materials
[AD-P003211] 17 p2594 N84-26624
Improving the design of multilayer pipes
24 p3876 N84-34564

INTERLOCKING
U LOCKING

INTERMEDIATE FREQUENCIES
New digital integrated Circuit (IC) concept for color TV receivers
[BMFT-FB-T-83-261] 10 p1488 N84-19729
Acoustic-optic spectrometer. 1: Noise contributions and system consideration
[NASA-TM-85613] 14 p2221 N84-24326
Simulation of an electronic countermeasure technique
[AD-D011143] 22 p3572 N84-32619
Coherent digital demodulation of a residual carrier signal using IF sampling 22 p3574 N84-32634

INTERMEDIATE FREQUENCY AMPLIFIERS
Analysis of the performance of the free electron bolometer
[AD-A134139] 07 p1008 N84-16533
Research in millimeter wave techniques
[NASA-CR-173964] 24 p3893 N84-34655

INTERMETALLICS
Structural studies of amorphous Mo-Ge alloys through the semiconductor-metal transition
[DE83-016525] 02 p0299 N84-11964
Transport properties of polycrystalline Ni3Al
[DE84-001960] 05 p0656 N84-14313
Study of intermetallic compounds in ternary systems Al-Ba-Nd and Al-Ba-Yb
[BLL-M-35387-(5828.4)] 08 p1129 N84-17343
International Conference on Recent Developments in Specialty Steels and Hard Materials
08 p1130 N84-17348
Materials research for advanced inertial instrumentation. Task 3: Rare earth magnetic material technology as related to gyro torquers and motors --- high energy SmCo5 magnets
[AD-A140611] 17 p2762 N84-27542
Improved oxidation sulfidation resistance of Fe-Cr-Ni alloys
[DE84-010066] 20 p3156 N84-30039
Liquid metal infiltration of an aluminum alloy into a packed column of B4C particles
[DE84-012136] 20 p3158 N84-30055
A combined thermodynamic study of nickel-base alloys
[DE84-013467] 21 p3368 N84-31368
Low-chromium heat-resisting ferritic alloys strengthened by the Chi Phase
[PB84-199041] 22 p3557 N84-32524
Deformation and failure of titanium aluminide
23 p3709 N84-33510
Investigation of rapidly solidified Ni3Al-based alloys
[AD-A144174] 24 p3883 N84-34604
An experimental study of praseodymium intermetallic compounds at low temperatures
[DE83-704748] 24 p3884 N84-34612

INTERMITTENCY
Calculations of intermittency in self-preserving, free turbulent jets and wakes
[CFD/83/10] 15 p2332 N84-25006
Progress in the development of an intermittency model of turbulence
[CFD/83/7] 20 p3188 N84-30255
Prediction of the temperature characteristics in intermittent, free turbulent shear layers
[CFD/84/1] 20 p3188 N84-30256

INTERMODULATION
Metal-insulator-metal junctions as surface sources of intermodulation
[AD-A130451] 01 p0043 N84-10279
Effect of leap length on the quality of large capacity numerical linkages 15 p2324 N84-24954
Intermodulation distortions in semiconductor microwave receivers and transmitters (survey)
22 p3569 N84-32605
Intermodulation in protective semiconductor microwave devices 22 p3571 N84-32612
Intermodulation product levels in flame-sprayed materials 22 p3573 N84-32629
The 20 x 20 high speed microwave switches
[NASA-TM-83775] 22 p3575 N84-32644

INTERMOLECULAR FORCES
Prediction of high-pressure phase transitions in solid N2 and the pressure dependence of the intramolecular vibrational frequencies
[DE83-015260] 04 p0615 N84-14057
Lattice dynamics of the mixed-conducting intermetallic compound alpha-LiAl
[DE83-014334] 05 p0756 N84-14959
Prediction of pressure induced structural phase transitions and internal mode frequency changes in solid N2+
[DE83-014279] 05 p0756 N84-14960
Intramolecular energy transfer reactions as a method for metal complex assisted production of hydrogen
[DE84-004762] 10 p1456 N84-19510
Intramolecular electron transfer at metal surfaces. 2: Comparisons of ligand-bridged CR(3) reduction kinetics at silver versus mercury electrodes
[AD-A139047] 13 p1956 N84-22720
Intramolecular electron transfer at metal surfaces. 3: Influence of bond conjugation on reduction kinetics of Cobalt (3) anchored to metal surfaces via thiophenecarboxylate ligands
[AD-A139066] 13 p2041 N84-23242
Spectroscopic research at high pressure and variable temperature
[AD-A143759] 23 p3713 N84-33537

INTERMONTANE FLOORS
U VALLEYS

INTERNAL COMBUSTION ENGINES
NT BRISTOL-SIDDELEY BS 53 ENGINE
NT DIESEL ENGINES
NT GAS TURBINE ENGINES
NT HELICOPTER ENGINES
NT HYDROGEN ENGINES
NT JET ENGINES
NT RAMJET ENGINES
NT ROTARY ENGINES
NT SUPERSONIC COMBUSTION RAMJET ENGINES
NT TF-41 ENGINE
NT TURBOFAN ENGINES
NT TURBOJET ENGINES
NT TURBOPROP ENGINES
Evaluation of unthrottled combustion system options for light duty applications with future syncrude derived fuels
[DE83-017047] 03 p0356 N84-12327
Calculation of unsteady flow in tubes of combustion engines with special regard to multiple branching
[REPT-82.8] 03 p0370 N84-12410
Use of the one-dimensional theory of the filament of flow for the interpretation and synthesis of mufflers in exhaust pipes of internal combustion engines
[REPT-81.4] 03 p0383 N84-12494
Controlled combustion engine evaluation
[DE83-011245] 03 p0384 N84-12499
Multicomponent velocity measurement in a pison-cylinder configuration using laser velocimetry
[NASA-TM-83534] 05 p0627 N84-14121
A dynamic analysis of rotary combustion engine seals
[NASA-TM-83536] 05 p0688 N84-14519
NAHBE (Naval Academy Heat Balanced Engine) m151 retrofit evaluation
[AD-A133475] 06 p0853 N84-15559
Stirling engines with controlled evaporation of a two-phase two-component working fluid
[DE83-017284] 06 p0853 N84-15560
Development of an instrument for real-time computation of indicated mean effective pressure
[NASA-TP-2238] 07 p0997 N84-16461
After-test engine inspection of US Army administrative and light-tactical vehicles operated on gasohol and unleaded gasoline
[AD-A137312] 10 p1502 N84-19817
Assessment of internal combustion engines as drivers for heat pumps
[DE84-005072] 10 p1502 N84-19821
Hybrid vehicle simulation
[AD-A136950] 10 p1594 N84-20445
Proceedings of the 20th Automotive Technology Development Contractors' Coordination Meeting
[NASA-CR-173412] 12 p1822 N84-21877
Real time pressure signal system for a rotary engine
[NASA-CASE-LEW-13622-1] 13 p1931 N84-22559
Impact assessment of reducing gasoline volatility
[PB84-152024] 14 p2133 N84-23781
An overview of NASA intermittent combustion engine research
[NASA-TM-83668] 15 p2261 N84-24583
A review of internal combustion engine combustion chamber process studies at NASA Lewis Research Center
[NASA-TM-83666] 15 p2331 N84-24999
Holographic aids for internal combustion engine flow studies
[NASA-TM-83681] 15 p2335 N84-25017
Lean limit control for internal combustion engines
[DE84-006542] 15 p2344 N84-25071
Wall effects on combustion in an engine
[AD-A141418] 19 p2966 N84-28796
Dynamic property studies of Sterling engines
[NASA-TM-77719] 19 p3031 N84-29225
Research and development of alcohol fuel usage in spark ignited engines
[DE84-011177] 21 p3374 N84-31412
Producer gas: Another fuel for motor transport
[DE84-901066] 21 p3375 N84-31416
Experimental and modeling study of engine knock
[DE84-006134] 22 p3606 N84-32844

INTERNAL ENERGY
Diffusion transfer during near-sonic turbulence
21 p3486 N84-32090

INTERNAL FRICTION
Dynamical friction in condensed matter
[DE84-004202] 10 p1589 N84-20415

INTERNAL PRESSURE
Longitudinally stiffened composite multi-layer cylindrical shells (and rings) under internal pressure
15 p2309 N84-24855
Investigation into the internal aerodynamic design and associated errors in a fast descent ducted sonde for the measurement of atmospheric pressure and temperature (AMPARS phase 2)
[AD-A143189] 22 p3625 N84-32969

INTERNAL STRESS
U RESIDUAL STRESS

INTERNAL WAVES
NT PLANETARY WAVES
Radar bathymetry : A review
03 p0400 N84-12612

The structure of the internal wave Mach front generated by a point source moving in a stratified fluid
[AD-A133775] 05 p0680 N84-14470
Lidar remote sensing of internal waves and optical properties 06 p0871 N84-15870
Observations of internal waves in the Gulf of California by SEASAT SAR 07 p0990 N84-16414
The vertical propagation of internal gravity waves in a compressible atmosphere 10 p1538 N84-20080
The effect of interior motion on seasonal thermocline evolution
[AD-A138270] 13 p2018 N84-23088
Upper ocean shear during JASIN: A deterministic and statistical analysis
[AD-A139077] 14 p2183 N84-24082
Is VHF Fresnel reflectivity due to low frequency buoyancy waves? 17 p2684 N84-27089
Well-developed convective cloud cover as source of internal waves 18 p2865 N84-28187

INTERNATIONAL COOPERATION
NT OUTER SPACE TREATY
Fourth outer space program of the German Federal Republic
[ISBN-3-88135-111-6] 01 p0017 N84-10110
Spacelab: An international short-stay orbiting laboratory
[NASA-EP-165] 01 p0027 N84-10172
Overview of US activities in IEA hydrogen technology. Annex 4: Electrolytic hydrogen production
[DE83-013064] 01 p0053 N84-10344
USSR report: Science and technology policy, no. 18
[JPRS-84484] 01 p0157 N84-11034
The socialist and developing countries: Technology transfer 01 p0157 N84-11035
Improvements noted in patent information system for CEMA member-countries 01 p0158 N84-11038
Organizational improvements in CEMA scientific, technical cooperation sought 01 p0158 N84-11039
Use of remote sensing methods for the ecological mapping project of the European community 03 p0395 N84-12580
Remote sensing applied to marine pollution control 03 p0399 N84-12607
Proceedings of 1st International Workshop on Atmospheric Icing of Structures
[AD-A131869] 03 p0411 N84-12690
US-Japan cooperative research on evaluation of toxicity 04 p0514 N84-13375
Proposed plan for joint research program between Japan, the USA and Canada concerning gas toxicity in fires 04 p0514 N84-13378
Cost problems in international collaboration
[MBB-UA-671-82-OE] 05 p0760 N84-14988
Helix and Felix: Loading standards for use in the fatigue evaluation of helicopter rotor components
[NLR-MP-82041-U] 06 p0787 N84-15149
Research report program of the US Army in Europe 07 p0944 N84-16122
Visiting spacemen
[NASA-TM-77294] 07 p0960 N84-16226
A review of US international aviation policy
[GPO-18-813] 07 p1087 N84-17070
UNISPACE-82: Recommendations addressed to member states on the development of indigenous capabilities and follow-up actions for their implementation
[INPE-2915-PRE/427] 07 p1087 N84-17071
Improvement needed in the implementation of the United States International Aviation Policy
[GPO-23-934] 07 p1087 N84-17072
The remote sensing of oil pollution at sea: An attempt at synthesis 08 p1176 N84-17662
PIRAMIG and PGN experiments 09 p1263 N84-18249
Beregovoy on cosmonaut training 09 p1264 N84-18251
Biomedical experiments on Soviet-French flight 09 p1264 N84-18254
International space organizations 09 p1265 N84-18261
Space Station needs, attributes and architectural options, volume 2, book 2, part 4: International reports
[NASA-CR-173319] 09 p1271 N84-18303
Possibilities for the future organization of air transport in the European community 10 p1424 N84-19309
Proceedings of the 4th LAN-Transport Workshop
[PB84-138825] 11 p1705 N84-21116
European Scientific Notes, Volume 38, Number 2
[AD-A137652] 11 p1746 N84-21394
AGARD highlights
[AGARD-HIGHLIGHTS-83/1] 12 p1763 N84-21493
Global energy future and CO2 induced climate change: Executive summary
[PB84-145911] 12 p1862 N84-22133
World Weather Watch: The plan and implementation program, 1984-1987
[WMO-617] 13 p2017 N84-23078
New initiatives in international programs
[AD-P002813] 13 p2060 N84-23359
Ballistic missile defense, space-based weapons, and the defense of the west
[AD-A140280] 16 p2454 N84-25738
Project management in the 80's
[MBB-UR-631-83-O] 16 p2564 N84-26454
Oversight of the Uniapace and International Telecommunications Union conference
[GPO-28-104] 16 p2828 N84-27953
Twenty years of European cooperation in space 16 p2946 N84-28681
Joint Soviet-American project for detection of gravitational waves 19 p2972 N84-28840
Earth Observing System, conclusions and recommendations 20 p3219 N84-30454
Space transportation systems of the future 21 p3348 N84-31236
International Meteorological Satellite System: Issues and options
[PB84-199603] 21 p3450 N84-31889
Workshop on Systems Analysis
[PB84-194661] 22 p3650 N84-33138
Space station program description document. Books 1-7
[NASA-TM-86652-BK-1-7] 23 p3698 N84-33437
East Europe report: Scientific affairs
[JPRS-ESA-84-007] 23 p3728 N84-33628
CEMA cooperation in microelectronics research, production 23 p3728 N84-33629
Worldwide report: Telecommunications policy, research and development
[JPRS-TTP-84-029] 23 p3732 N84-33657
A scientific visit to the Institute of Polar Study of Japan
[INPE-3161-NTE/221] 23 p3801 N84-34097
East Europe report: Science and technology
[JPRS-ESA-84-025] 24 p3960 N84-35077
Socialist countries cooperate in computer R and D 24 p3961 N84-35081
Review of the National Aeronautics and Space Act of 1958, as amended
[GPO-38-705] 24 p3970 N84-35134

INTERNATIONAL GEOPHYSICAL YEAR
Seismological Research on the World Ocean
[REPT-9279] 19 p3059 N84-29411

INTERNATIONAL LAW
NT AIR LAW
NT SPACE LAW
Worldwide report: Telecommunications policy, research and development
[JPRS-TTP-84-005] 15 p2327 N84-24971
International law gives states right to jam foreign radio broadcasts 15 p2327 N84-24972

INTERNATIONAL MAGNETOSPHERIC STUDY
GSE for balloon-borne I.M.S.: Decommutator and D/A units
[AD-A131845] 03 p0377 N84-12452
Observations of short period magnetic pulsations during the SBARMO-79 campaign: Data summary
[REPT-90/1982] 13 p2012 N84-23052
Quick-look tables of continuous pulsations (Pc1) and Intervals of Pulsations of Diminishing Periods (IPDP) magnetic pulsation events recorded in Finland during IMS years 1976-1979: Data summary
[REPT-92/1982] 13 p2012 N84-23053

INTERNATIONAL RELATIONS
NT INTERNATIONAL COOPERATION
NT OUTER SPACE TREATY
Transatlantic policy divergencies: Implications for the United States
[AD-A140574] 17 p2773 N84-27606
International implications of proposed sale of LANDSAT satellite
[GPO-31-310] 23 p3763 N84-33849
Sale of LANDSAT could adversely affect international relations
[H-REPT-98-1108] 23 p3763 N84-33850

INTERNATIONAL SOLAR POLAR MISSION
The International Solar Polar Mission: Its scientific investigations — International Solar Polar Mission (ISPM)
[ESA-SP-1050] 09 p1260 N84-18227
ISPM and the heliosphere 09 p1260 N84-18228
The ISPM mission: Science objectives and mission overview 09 p1260 N84-18229
The magnetic-field investigation on ISPM 09 p1260 N84-18230
The ISPM solar-wind plasma experiment 09 p1261 N84-18231
The ISPM solar-wind ion composition spectrometer 09 p1261 N84-18232
The ISPM energetic panel particle composition experiment 09 p1261 N84-18233
The ISPM interstellar neutral-gas experiments 09 p1261 N84-18234
The ISPM experiment for spectral, composition and anistropy measurements of charged particles at low energie 09 p1261 N84-18235
The ISPM cosmic-ray and solar-particle investigation 09 p1262 N84-18236
The ISPM unified radio and plasma wave experiment 09 p1262 N84-18237
The ISPM solar-flare X-ray and cosmic gamma-ray burst experiment 09 p1262 N84-18238
The ISPM dust experiment 09 p1262 N84-18239
The IPSM coronal-sounding experiment 09 p1262 N84-18240
The search for gravitational waves with ISPM 09 p1263 N84-18241
Interdisciplinary study of directional discontinuities in the solar wind with ISPM 09 p1263 N84-18242
The ISPM spacecraft 09 p1263 N84-18243
ISPM mission operations 09 p1263 N84-18244
The ISPM common data file 09 p1263 N84-18245
Thermal control design of ISPM 10 p1441 N84-19408

INTERNATIONAL SUN AND EARTH EXPLORER A
U INTERNATIONAL SUN EARTH EXPLORER 1

INTERNATIONAL SUN AND EARTH EXPLORER B
U INTERNATIONAL SUN EARTH EXPLORER 2

INTERNATIONAL SUN AND EARTH EXPLORER C
U INTERNATIONAL SUN EARTH EXPLORER 3

INTERNATIONAL SUN EARTH EXPLORER 1
The potential of ISEE in different plasma environments 08 p1116 N84-17257
Anomalously high potentials observed on ISEE 08 p1116 N84-17258
The DC electric field in space: Direct measurements and inferences from cold plasma drifts 08 p1117 N84-17264
Active control of the potential of ISEE-1 by an electron gun 08 p1119 N84-17278

INTERNATIONAL SUN EARTH EXPLORER 2
The DC electric field in space: Direct measurements and inferences from cold plasma drifts 08 p1117 N84-17264

INTERNATIONAL SUN EARTH EXPLORER 3
Solar cycle variations in the interplanetary magnetic field 03 p0469 N84-13091
Measurement of macroscopic plasma parameters with a radio experiment: Interpretation of the quasi-thermal noise spectrum observed in the solar wind 03 p0470 N84-13096
Radio evidence for interplanetary streamers in the range 10-170 solar radii 03 p0471 N84-13103
Plasma wave experiment for the ISEE-3 mission
[NASA-CR-175132] 06 p0919 N84-15972
ISEE-3 microwave filter requirements 10 p1475 N84-19632

INTERNATIONAL SUN EARTH EXPLORERS
NT INTERNATIONAL SUN EARTH EXPLORER 1
NT INTERNATIONAL SUN EARTH EXPLORER 2
NT INTERNATIONAL SUN EARTH EXPLORER 3
Active sounder experiments on GEOS and ISEE 05 p0635 N84-14177
Anomalously high potentials observed on ISEE
[NASA-CR-172791] 08 p1115 N84-17252
Anomalous behavior of ISEE-1 detected by the electron density experiment 08 p1116 N84-17259
Magnetopause studies using data from the ISEE mission
[NASA-CR-175208] 08 p1185 N84-17718
ISEE observations of magnetopause reconnection: The energy balance 08 p1185 N84-17720
Research in space physics at the University of Iowa, 1982
[NASA-CR-175411] 11 p1754 N84-21447
Data reduction and analysis for ISEE-A and -B energetic particles flux experiment and ISEE-C electron and X-ray experiments
[NASA-CR-175220] 11 p1760 N84-21486
Ongoing data reduction, theoretical studies and supporting research in magnetospheric physics
[NASA-CR-173419] 13 p2010 N84-23039
Hard X-ray and microwave morphology
[NASA-CR-173568] 16 p2582 N84-26559
Some contributions to knowledge of the magnetospheric plasma by ISEE investigators
[NASA-TM-86124] 20 p3301 N84-30962

INTERNATIONAL SYSTEM OF UNITS
Activities report of the Division of Quantum Metrology
[NPL-QU-AR-82] 16 p2494 N84-26002
Data word standardization
[AD-P003543] 21 p3333 N84-31147

INTERNATIONAL TRADE
Technology and East-West trade: An update
[PB83-234955] 01 p0163 N84-11068
Export trade: Big business for the small entrepreneur
[AD-P002811] 13 p2059 N84-23357

Science in the European Economic Community: A self-assessment and a detailed plan of action
[AD-A139078] 14 p2247 N84-24492
Transatlantic policy divergencies: Implications for the United States
[AD-A140574] 17 p2773 N84-27606
INTERNATIONAL ULTRAVIOLET EXPLORER
U IUE
INTERPERSONAL RELATIONS
U HUMAN RELATIONS
INTERPLANETARY DUST
NT METEOROID DUST CLOUDS
NT ZODIACAL DUST
Minor constituents in the solar wind originating from plasma-dust interactions 03 p0474 N84-13116
Formation of dust lanes in spiral galaxies by radiation pressure 08 p1244 N84-18130
Formation of chondrules by drag heating in dust-enriched environments 11 p1756 N84-21463
Toward a complete inventory of stratospheric dust particles with implications and their classification 11 p1756 N84-21464
Chemical and isotopic measurements of micrometeoroids by secondary ion mass spectrometry (A0187-2) 15 p2276 N84-24670
Interplanetary dust experiment (A0201) 15 p2277 N84-24671
The nature and origin of refractory inclusions in the Allende meteorite 22 p3678 N84-33318
INTERPLANETARY FLIGHT
NT LONG DURATION SPACE FLIGHT
INTERPLANETARY GAS
The interplanetary hydrogen and helium glow and the inferred interstellar gas properties 03 p0472 N84-13109
The ISPM interstellar neutral-gas experiments 09 p1261 N84-18234
INTERPLANETARY MAGNETIC FIELDS
Solar-geophysical data number 464, April 1983. Part 1: Prompt report. Data for March 1983, February 1983 and late data. Explanation of data reports issued as number 462 (supplement) February 1983
[PB83-222489] 01 p0166 N84-11091
Solar-Geophysical Data number 465, May 1983. Part 1: Prompt reports. Data for April and March 1983, and late data
[PB83-228544] 02 p0305 N84-12005
Radial variations of large-scale magnetohydrodynamic fluctuations in the solar wind
[NASA-TM-85116] 03 p0463 N84-13045
Interplanetary Alfvenic fluctuations: A statistical study of the directional variations of the magnetic field
[IFSI-82-14] 03 p0463 N84-13050
The effect of the solar field reversal on the modulation of galactic cosmic rays 03 p0471 N84-13101
The radial evolution of the solar wind, 1-10 AU 03 p0472 N84-13106
Spatial dependences in the distant solar wind: Pioneers 10 and 11 03 p0472 N84-13107
Interplanetary perturbations associated with type 4 solar flares
[IFSI-82-6] 03 p0475 N84-13129
Evidence linking coronal mass ejections with interplanetary magnetic clouds
[NASA-TM-82564] 08 p1245 N84-18141
Interplanetary flow systems associated with cosmic ray modulation in 1977 - 1980
[NASA-TM-85120] 08 p1246 N84-18149
Rapporteur paper for sessions MG1, MG3 and MG4: Modulation theory, interplanetary propagation and interplanetary acceleration
[NASA-TM-86047] 08 p1247 N84-18150
Modulation of cosmic rays with particular reference to the Hermanus neutron monitor 09 p1344 N84-18760
Solar-geophysical data number 468, August 1983. Part 1. (Prompt reports). Data for July 1983, June 1983 and late data
[PB84-116573] 09 p1417 N84-19270
Solar-geophysical data number 469, September 1983. Part 1: (Prompt reports. Data for August 1983, July 1983 and late data)
[PB84-125913] 09 p1417 N84-19273
Magnetic field aligned electric fields
[TRITA-EPP-83-07] 12 p1922 N84-22521
Solar-Geophysical Data number 471, November 1983. Part 1: (Prompt reports). Data for October 1983, September 1983 and late data
[PB84-156991] 14 p2252 N84-24523
Coalescence of two pressure waves associated with stream interactions
[NASA-TM-86120] 16 p2581 N84-26554
The magnetic field experiment for the Venus-Halley (VEGA) mission
[IWF-8301] 17 p2777 N84-27633
Large-scale interplanetary magnetic fields: Voyager 1 and 2 observations between 1 AU and 9.5 AU
[NASA-TM-86088] 18 p2952 N84-28712
Cosmic rays, solar activity, magnetic coupling, and lightning incidence
[NASA-CR-3812] 19 p3057 N84-29397
Solar-geophysical data prompt reports, February 1984, number 474. Part 1: Data for January 1984, December 1983 and late data. Explanation of data reports issued as number 474 (supplement) February 1984
[PB84-188689] 20 p3320 N84-31076
Solar-geophysical data explanation of reports, February 1984, number 474, supplement
[PB84-188697] 20 p3320 N84-31078
Solar-Geophysical Data, no. 475, March 1984. Part 1: Prompt reports. Data for September 1983, May 1981
[PB84-201508] 22 p3680 N84-33329
Solar Terrestrial Physics: Present and Future
[NASA-RP-1120] 23 p3836 N84-34332
Coupling of the solar wind to the magnetosphere 23 p3837 N84-34337
MHD processes in the outer heliosphere
[NASA-TM-86137] 23 p3845 N84-34391
Long time behaviour of the interplanetary magnetic field-sectorial structure
[INPE-3222-PRE/573] 24 p3990 N84-35245
INTERPLANETARY MEDIUM
NT INTERPLANETARY DUST
NT INTERPLANETARY GAS
NT METEOROID DUST CLOUDS
NT ZODIACAL DUST
Radio scintillations at large elongation angles: Contributions of waves versus discontinuities
[IFSI-82-4] 03 p0382 N84-12358
Interplanetary Alfvenic fluctuations: A statistical study of the directional variations of the magnetic field 03 p0467 N84-13076
Electron heating at interplanetary shocks 03 p0470 N84-13098
Interplanetary scintillation observations of the solar wind close to the Sun and out of the ecliptic 03 p0471 N84-13102
Radio evidence for interplanetary streamers in the range 10-170 solar radii 03 p0471 N84-13103
Associations between coronal mass ejections and interplanetary shocks 03 p0474 N84-13121
Velocity profiles of interplanetary shocks 03 p0474 N84-13122
Plasma properties of driver gas following interplanetary shocks observed by ISEE-3 03 p0474 N84-13123
Corotating shocks in inner heliosphere 03 p0475 N84-13124
On the field configuration in magnetic clouds 03 p0475 N84-13125
Power spectral signatures of interplanetary corotating and transient flows
[NASA-TM-86051] 08 p1244 N84-18131
The ISPM mission: Science objectives and mission overview 09 p1260 N84-18229
The ISPM solar-wind plasma experiment 09 p1261 N84-18231
The ISPM energetic panel particle composition experiment 09 p1261 N84-18233
The ISPM experiment for spectral, composition and anistropy measurements of charged particles at low energie 09 p1261 N84-18235
Solar-geophysical data number 469, September 1983, part 2 (comprehensive reports). Data for March 1983 and miscellanea
[PB84-125921] 09 p1417 N84-19274
Diffuse auroral zone. Part 7: Dynamics of equatorial boundary in field of diffuse electron spill in evening sector 19 p2973 N84-28846
Solar-geophysical data number 473. Part 2: (Comprehensive reports) data for July 1983, March 1981 and miscellanea
[PB84-180629] 20 p3320 N84-31074
Solar Terrestrial Physics: Present and Future
[NASA-RP-1120] 23 p3836 N84-34332
Particle acceleration 23 p3836 N84-34334
MHD waves and turbulence in the Sun and interplanetary medium 23 p3837 N84-34336
Plasma electron analysis: Voyager plasma science experiment
[NASA-TM-85037] 24 p3969 N84-35243
INTERPLANETARY PROPULSION
U INTERPLANETARY SPACECRAFT
U ROCKET ENGINES
INTERPLANETARY SPACE
Proceedings of the STIP (Study of Travelling Interplanetary Phenomena) Symposium on Solar Radio Astronomy, Interplanetary Scintillations and Coordination with Spacecraft
[AD-A130687] 01 p0165 N84-11087
Multiple spacecraft observations of interplanetary shocks: Characteristics of the upstream ULF turbulence 03 p0470 N84-13097
Interplanetary perturbations associated with type 4 solar flares
[IFSI-82-6] 03 p0475 N84-13129
USSR report: Space, no. 25
[JPRS-84946] 05 p0633 N84-14159
Activities in interplanetary space physics
[IFSI-82-7] 05 p0761 N84-14993
Description of 1982 activities in interplanetary physics
[IFSI-83-5] 05 p0761 N84-14994
INTERPLANETARY SPACECRAFT
NT GALILEO SPACECRAFT
NT MARINER SPACE PROBES
NT MARINER 4 SPACE PROBE
NT MARINER 9 SPACE PROBE
NT MARINER 10 SPACE PROBE
NT MARS PROBES
NT PIONEER SPACE PROBES
NT PIONEER VENUS SPACECRAFT
NT PIONEER 10 SPACE PROBE
NT VENERA SATELLITES
NT VENUS PROBES
NT VIKING LANDER SPACECRAFT
NT VIKING ORBITER SPACECRAFT
NT VIKING ORBITER 1
NT VIKING SPACECRAFT
NT VOYAGER 1 SPACECRAFT
NT VOYAGER 2 SPACECRAFT
Interplanetary mission design handbook. Volume 1, part 2: Earth to Mars ballistic mission opportunities, 1990-2005
[NASA-CR-173306] 09 p1260 N84-18226
Performance assessment of planetary missions as launched from an orbiting space station
[NASA-CR-173498] 13 p1936 N84-22594
INTERPLANETARY TRAJECTORIES
NT EARTH-MARS TRAJECTORIES
Flights to asteroids with space vehicle maneuvers near Venus, Earth, Mars and Jupiter 19 p2973 N84-28844
Low thrust orbit optimization for interplanetary missions, volume 1
[ESA-CR(P)-1904-VOL-1] 23 p3697 N84-33430
Low thrust orbit optimization for interplanetary missions, volume 2
[ESA-CR(P)-1904-VOL-2] 23 p3697 N84-33431
INTERPLANETARY TRANSFER ORBITS
Optimal low-thrust interplanetary orbit transfer including Earth escape spiral trajectory
[NAL-TR-778T] 09 p1266 N84-18264
INTERPOLATION
Optimization of finite element grids using interpolation error 01 p0128 N84-10835
On complex rational approximation by interpolation at preselected nodes
[AD-A130526] 01 p0131 N84-10855
A computer program for estimating the aerodynamic characteristics of NACA 16-series airfoils
[NASA-TM-85696] 02 p0174 N84-11145
Explicit, nearly optimal, linear rational approximation with preassigned poles
[AD-A131392] 02 p0280 N84-11837
Robust prediction and interpolation for Vector stationary processes
[AD-A130973] 02 p0284 N84-11859
Further studies on equal-order interpolation for Navier-Stokes
[DE84-000916] 04 p0534 N84-13512
On interpolation methods for boundary value ordinary differential equations 04 p0586 N84-13869
Numerical electromagnetics code. Method of moments. User's guide supplement for NEC-3 for modeling buried wires
[DE84-002195] 06 p0825 N84-15382
Practical three-dimensional mesh generation using transfinite interpolation 06 p0838 N84-15463
Explicit multistage finite volume procedure to solve the Euler equations for transonic flow 06 p0838 N84-15464
Evaluation of wind field interpolation schemes used in studies of regional-scale pollutant transport
[DE84-003634] 08 p1182 N84-17699
A climatically-derived global soil moisture data set for use in the GLAS atmospheric circulation model seasonal cycle experiment
[NASA-CR-173289] 08 p1186 N84-17729
Use of the Bernstein form to derive sufficient conditions for shape preserving piecewise polynomial interpolation
[DE84-003914] 08 p1221 N84-17972
Recursive interpolation of space-limited scenes
[AD-A136215] 09 p1379 N84-19007
Harmonizable stable processes on groups: Spectral, ergodic and interpolation properties
[AD-A136504] 09 p1384 N84-19041

Interpolation between calculated stress intensity factors of semi and quarter elliptical cracks
[VTH-LR-368] 10 p1518 N84-19939
A bivariate C-2 Clough-Tocher scheme
[AD-A137930] 11 p1715 N84-21183
Interpolation for Runge-Kutta methods
[DE84-006455] 11 p1716 N84-21193
Use of shape-preserving interpolation methods in surface modeling 12 p1870 N84-22183
Use of shape-preserving interpolation methods in surface modeling
[DE83-012706] 12 p1895 N84-22343
An interpolation type inequality for a discrete weighted norm
[CTH-MATH-1983-30] 13 p2037 N84-23213
Multivariate perpendicular interpolation
[AD-A139254] 14 p2212 N84-24284
Piecewise monotone interpolation and approximation with generalized polynomials 15 p2402 N84-25416
Speeding up the help hydrodynamic code
[MRL-R-925] 16 p2543 N84-26321
A scheme for mass and wind analysis on a limited area using multivariate three-dimensional optimum interpolation: Scientific documentation and first evaluation
[KNMI-TR-46] 17 p2734 N84-27382
A fast interpolator with slope specification
[INPE-3058-PRE/478] 17 p2751 N84-27482
Two-dimensional splines
[NASA-CR-173804] 19 p3082 N84-29561
A geometric proof of total positivity for spline interpolation
[AD-A141606] 19 p3085 N84-29583
Interpolation of weighted L sub P and Sobolev spaces on intervals
[CTH-MATH-1984-04] 19 p3090 N84-29622
The missing cone problem in computer tomography and a model for interpolation in synthetic aperture radar
[AD-A142421] 20 p3174 N84-30157
An objective analysis technique for extrapolating tidal fields 20 p3222 N84-30471
Slave finite elements: The temporal element approach to nonlinear analysis 21 p3420 N84-31689
Multiple grid methods for equations of the second kind with applications in fluid mechanics
[MATH-CENTRE-TRACTS-163] 21 p3474 N84-32018
Sources of error in objective analysis
[AD-A142772] 21 p3474 N84-32020

INTERPOLATORS
U REPEATERS

INTERPROCESSOR COMMUNICATION
Trends in the development of teleinformatics
[AD-A131067] 03 p0359 N84-12338
Network design tool for EHF satellite communications networks
[AD-A131812] 03 p0361 N84-12349
Design and implementation of a preprocessing system for a sodium lidar
[NASA-CR-174595] 03 p0378 N84-12462
Procedures for the transfer of data files between the BRL CYBER computer system and the IBD Hewlett-Packard minicomputer network
[AD-A132063] 03 p0418 N84-12731
Communicating between the IBM personal computer and the Wang word-processing system
[DE83-017987] 04 p0578 N84-13809
Pluribus satellite IMP (Interface Message Provision) development mobile access terminal network
[AD-A132690] 05 p0670 N84-14405
Microcomputer networking: A CP/M-Based application
[AD-A134124] 05 p0718 N84-14707
An argument for soft layering of protocols
[AD-A133948] 05 p0718 N84-14708
Computer program development specification for Ada integrated environment: Virtual memory methodology, B5-AIE(1).VMM(2)
[AD-A134091] 05 p0726 N84-14767
Computer program development specification for Ada integrated environment. MAPSE command processor B5-AIE(1).MCP (1)
[AD-A134033] 05 p0727 N84-14772
Design and implementation of software protocol in VAX/VMS using ethernet local area network
[AD-A133699] 05 p0728 N84-14778
Simulation requirements to support the development of a fault tolerant avionic system 06 p0774 N84-15072
Advanced automation program. Program master plan
[DOT/FAA/AP-83/3] 06 p0785 N84-15139
Advanced teleprocessing systems
[AD-A133554] 06 p0825 N84-15377
A survey of network reliability
[AD-A133545] 06 p0899 N84-15835
Analyzing the roles of descriptions and actions in open systems
[AD-A133614] 06 p0905 N84-15878
A distributed procedure to detect and/or deadlock
[AD-A135459] 08 p1212 N84-17904
Performance evaluation and control of distributed computer communication networks
[AD-A135121] 08 p1215 N84-17928
Distributed algorithms for varicus problems
[AD-A135452] 08 p1240 N84-18105
M/A-COM linkabit eastern operations
[AD-A136463] 09 p1299 N84-18490
A versatile parallel image processor system
[AD-A136292] 09 p1365 N84-18910
A multiprocessor emulation facility
[AD-A136094] 09 p1365 N84-18915
Analysis of reliable multicast algorithms for local networks
[AD-A135807] 09 p1369 N84-18935
Aircraft simulator: Multiple-cockpit combat mission trainer network
[AD-A137182] 10 p1432 N84-19363
A layered communication system for ethernet
[AD-A136799] 10 p1481 N84-19676
Bus interconnection in multiprocessor environment: The communication principle and the arbitration techniques
[ENST-E-83010] 10 p1482 N84-19689
Issues in interaction language specification and representation
[AD-A136943] 10 p1555 N84-20188
Dialogue management: New concepts in human-computer interface development
[AD-A136945] 10 p1555 N84-20190
Parallel logic programming and ZMOB and parallel systems software and hardware
[AD-A137068] 10 p1564 N84-20246
Advanced teleprocessing systems
[AD-A137944] 11 p1644 N84-20747
One solution to STAR-1100 in a dual machine environment
[DE83-017160] 11 p1704 N84-21109
Integrating micro-computers with a centralized DBMS: ORACLE, SEED AND INGRES 11 p1748 N84-21409
Protocol standards and implementation within the digital engineering laboratory computer network (DELNET) using the universal network interface device (UNID). Part 2
[AD-A138119] 12 p1806 N84-21777
A unified data flow model for fault tolerant computers
[NASA-CR-173479] 12 p1877 N84-22230
Universal disk controller for microcomputers
[AD-A138333] 12 p1877 N84-22235
An automated computer communication network protocol verification system
[AD-A138160] 12 p1881 N84-22260
Design and implementation of an Input/Output interface protocol for the INTEL 432/670 computer system
[AD-A138429] 12 p1883 N84-22273
Continued development of a universal network interface device using the Intel 8086 and 8089 16-bit microprocessors
[AD-A138118] 12 p1891 N84-22319
Distributed estimation in the MIT/LL (Massachusetts Institute of Technology/Lincoln Laboratory) DSN (Distributed Sensor Networks) test-bed
[AD-P002897] 13 p1980 N84-22856
Optimal file allocation problems for distributed data bases in unreliable computer networks, 2
[AD-P002913] 13 p1981 N84-22864
Distributed elections in an Archimedean ring of processors (preliminary version)
[MC-IW-243/83] 13 p2035 N84-23202
Beyond the data base: Technology for information resource management
[AD-A138840] 13 p2067 N84-23402
Designing efficient communication networks
[AD-A139190] 14 p2202 N84-24219
Federal plans for cooperative backup among operational processing centers
[PB84-174796] 16 p2531 N84-26253
The ROE file system
[AD-A140497] 16 p2567 N84-26473
The implementation of a multi-backend database system (MDBS). Part 4: The revised concurrency control and directory management processes and the revised definitions of inter-process and inter-computer messages
[AD-A140874] 17 p2750 N84-27453
Adaptive topological configuration of an integrated circuit/packet-switched computer network
[AD-A141309] 18 p2830 N84-27966
The Demos multi-computer project: Hardware aspects
[NPL-DITC-36/84] 18 p2917 N84-28493
Development of an AFIT (Air Force Institute of Technology) ADP system network model
[AD-A141253] 18 p2917 N84-28496
An Ada (trademark) network: A real-time distributed computer system
[AD-P003423] 20 p3270 N84-30755
Augmenting computer networks
[NASA-CR-172399] 20 p3277 N84-30800
Design issues in parallel architectures for artificial intelligence
[AD-A142482] 20 p3278 N84-30809
IBM's token-ring LAN (Local-Area Network): A base-level communications solution
[AD-A143448] 22 p3638 N84-33063
Summary of research performed at MIT Laboratory for Computer Science
[AD-A143459] 22 p3638 N84-33064
Higher layer protocols for a workstation architecture
[DE84-013649] 22 p3641 N84-33087
Implementation of monitors with macros: A programming aid for the HEP and other parallel processors
[ANL-83-97] 23 p3817 N84-34200

INTERRELATIONSHIPS
U RELATIONSHIPS

INTERROGATION
Implementation of logical query languages for databases
[AD-A144435] 24 p3947 N84-34992

INTERRUPTION
Tracking with intermittent radar coverage. 2: Interruptions after two or more consecutively-collected frames of imagery
[AD-P003323] 18 p2910 N84-28459
Estimating the number and duration of cognitive processes using the within-task subtractive method
[AD-A144617] 24 p3937 N84-34923

INTERSECTIONS
The computation of all plane/surface intersections for CAD/CAM applications 12 p1869 N84-22182
Intersection of parametric surfaces using lookup tables 12 p1870 N84-22185
Planet-crossing asteroid survey 15 p2427 N84-25580

INTERSTELLAR CHEMISTRY
Interstellar-gas experiment (A0038) 15 p2275 N84-24660
The composition of interstellar grain mantles 16 p2570 N84-26490
Evolution of interstellar grains 18 p2947 N84-28684
The composition of interstellar grain mantles 18 p2947 N84-28688
Spectroscopy of the 4.6 - 4.7 micron interstellar absorption features 18 p2948 N84-28690
The 3 micron ice band --- interstellar absorption 18 p2948 N84-28692
Experiments on chemical and physical evolution of interstellar grain mantles 18 p2948 N84-28693
Quenched Carbonaceous Composite (QCC): A likely candidate for interstellar grains 18 p2949 N84-28699
Ice in comet dust 18 p2949 N84-28702
Ultraviolet studies of the interstellar medium 24 p3970 N84-35137
A general survey of the correlation of interstellar element depletion with line-of-sight density indicators 24 p3973 N84-35158
Interstellar chlorine abundance: Results and implications of a large-scale survey 24 p3973 N84-35159
The interstellar media in the Scorpius-Ophiuchus region 24 p3973 N84-35161
Ultraviolet and optical observations of metal deficient red giants and chromospheric models 24 p3974 N84-35166
An upper limit to the Beryllium abundance in the population 2 star HD 140283 from a high resolution IUE spectrum 24 p3974 N84-35167

INTERSTELLAR EXTINCTION
Ultraviolet extinction properties of grains in the interstellar medium 03 p0476 N84-13131
Catalogue of stellar ultraviolet fluxes. A compilation of absolute stellar fluxes measured by the Sky Survey Telescope (S2/68) aboard the ESRO satellite TD-1 15 p2423 N84-25558
Spectroscopy of the 4.6 - 4.7 micron interstellar absorption features 18 p2948 N84-28690
Observations of the interstellar ice grain feature in the Taurus molecular clouds 18 p2948 N84-28691
Far infrared extinction coefficients of minerals of interest for astronomical observations 18 p2949 N84-28700
Study of variable extinction of hot stars with circumstellar dust shells
[NASA-CR-173844] 21 p3522 N84-32315
The interstellar absorption in the direction of some nearby A stars 24 p3972 N84-35155
The interstellar media in the Scorpius-Ophiuchus region 24 p3973 N84-35161

The hydrogen-deficient irregular variable star V348 SGR 24 p3978 N84-35200
A comprehensive ultraviolet extinction study: Grain model and grain evolution implications 24 p3982 N84-35232

INTERSTELLAR GAS
NT NEUTRAL GASES
Formaldehyde as a density probe of interstellar clouds 02 p0307 N84-12015
A study of depletion in low-velocity diffuse interstellar gas 03 p0462 N84-13042
Theory of interstellar medium diagnostics 03 p0472 N84-13108
The interplanetary hydrogen and helium glow and the inferred interstellar gas properties 03 p0472 N84-13109
Large scale galactic shocks and motions of the cloud medium 04 p0620 N84-14089
Interfacing a two-stage image intensifier tube to an echelle spectrograph 06 p0929 N84-16035
Galactic explosions, cosmic dust invasions, and climatic change 11 p1757 N84-21469
Interstellar-gas experiment (A0038) 15 p2275 N84-24660
The composition of interstellar grain mantles 16 p2570 N84-26490
Experiments on chemical and physical evolution of interstellar grain mantles 16 p2570 N84-26495
Self-regulating galaxy formation. Part 1: HII disk and Lyman alpha pressure
[NASA-CR-173592] 16 p2577 N84-26535
Limits on soft X-ray flux from distant emission regions
[NASA-CR-173591] 16 p2582 N84-26558
Ultraviolet studies of the interstellar medium 24 p3970 N84-35137
Further studies of nearby high velocity interstellar gas 24 p3973 N84-35157
Optically-thick, highly-variable plasma in interacting binaries 24 p3980 N84-35211

INTERSTELLAR MASERS
The excitation of SiO in circumstellar envelopes 03 p0462 N84-13041
Alfven masers 05 p0636 N84-14182
Brazil national report on radio astronomy (1981 - 1984)
[INPE-3052-PRE/473] 16 p2573 N84-26516
183 GHz water line variation: An energetic outburst in orion KL
[NASA-TM-85956] 16 p2574 N84-26522

INTERSTELLAR MATTER
Topics in gravitation and gauge fields 02 p0247 N84-11616
Copernicus observational searches for OH and H2O in diffuse clouds
[NASA-CR-170601] 02 p0305 N84-12004
Some theoretical studies of the interstellar medium 02 p0306 N84-12006
Formaldehyde as a density probe of interstellar clouds 02 p0307 N84-12015
Ultraviolet extinction properties of grains in the interstellar medium 03 p0476 N84-13131
Observations of the unidentified 3.3 microns emission feature in compact HII regions 06 p0937 N84-16089
Infrared measurements of AFGL (Air Force Geophysics Laboratory) sources
[AD-A133553] 06 p0938 N84-16098
Ambipolar diffusion in interstellar clouds: One-dimensional, isothermal collapse 06 p0939 N84-16099
The interstellar medium along the line of sight toward X Per 06 p0939 N84-16101
Limits on diffuse X-ray emission from M101
[NASA-CR-170976] 08 p1246 N84-18147
The fluctuation spectrum of molecular clouds — interstellar matter 09 p1408 N84-19201
Heavy ions in space (M0001) 15 p2275 N84-24662
Proceedings of the Workshop on Laboratory and Observational Infrared Spectra of Interstellar Dust
[ISBN-0-902553-29-1] 16 p2569 N84-26485
Evolution of interstellar grains 16 p2569 N84-26486
Grain destruction in interstellar shocks 16 p2569 N84-26487
On supernovae as a source of interstellar dust: The current observational picture 16 p2569 N84-26488
Grain formation in the expanding gas flow around cool luminous stars 16 p2569 N84-26489
Spectroscopy of the 4.6 - 4.7 micron interstellar absorption features 16 p2570 N84-26492
Origin of amorphous interstellar grains 16 p2571 N84-26503
Self-regulating galaxy formation. Part 1: HII disk and Lyman alpha pressure
[NASA-CR-173592] 16 p2577 N84-26535
Laboratory and observational infrared spectra of interstellar dust — conferences
[ROE-OR-12] 18 p2947 N84-28683
Evolution of interstellar grains 18 p2947 N84-28684
Grain destruction in interstellar shocks 18 p2947 N84-28685
On supernovae as a source of interstellar dust. The current observational picture 18 p2947 N84-28686
Grain formation in the expanding gas flow around cool luminous stars 18 p2947 N84-28687
The composition of interstellar grain mantles 18 p2947 N84-28688
Experiments on chemical and physical evolution of interstellar grain mantles 18 p2948 N84-28693
Origins of the 3.28 micron dust emission feature 18 p2949 N84-28696
Quenched Carbonaceous Composite (QCC): A likely candidate for interstellar grains 18 p2949 N84-28699
Far infrared extinction coefficients of minerals of interest for astronomical observations 18 p2949 N84-28700
Origins of amorphous interstellar grains 18 p2949 N84-28701
Nova Aquilae 1982: The nature of its dust 18 p2950 N84-28703
Structure in the interstellar polarization curve and the nature of the polarizing grains 18 p2950 N84-28706
Submillimeter wavelength survey of the galactic plane from l = -5 deg to l = +62 deg: Structure and energetics of the inner disk
[NASA-TM-86077] 20 p3319 N84-31069
Optical and infrared polarization as a probe of matter near stars 21 p3524 N84-32324
Radio astronomy 22 p3683 N84-33349
Ultraviolet studies of interstellar matter 23 p3839 N84-34356
Ultraviolet studies of the interstellar medium 24 p3970 N84-35137
Interstellar lines in high resolution IUE spectra of run-away B type stars 24 p3973 N84-35160
A comprehensive ultraviolet extinction study: Grain model and grain evolution implications 24 p3982 N84-35232
Satellite observations of the extreme ultraviolet and far ultraviolet radiation fields 24 p3994 N84-35280

INTERSTELLAR MICROWAVE SPECTRA
U INTERSTELLAR RADIATION
U MICROWAVE SPECTRA

INTERSTELLAR RADIATION
The interplanetary hydrogen and helium glow and the inferred interstellar gas properties 03 p0472 N84-13109
Galactic gamma radiation and the interstellar medium
[MPE-179] 10 p1597 N84-20469

INTERSTELLAR REDDENING
U INTERSTELLAR EXTINCTION

INTERSTELLAR SPACE
The far infrared sky survey experiment
[AD-A131966] 03 p0461 N84-13037
Space research in the Netherlands 09 p1407 N84-19194
Observation of the interstellar ice grain feature in the Taurus molecular clouds
[DE84-004316] 10 p1595 N84-20453
Observations of the interstellar ice grain feature in the Taurus molecular clouds 16 p2570 N84-26493
The 3 micron ice band 16 p2570 N84-26494
Experiments on chemical and physical evolution of interstellar grain mantles 16 p2570 N84-26495
Studies of X-ray clusters of galaxies/intergalactic plasmas
[NASA-CR-173825] 20 p3319 N84-31068
Stellar winds and their dynamical influence on the interstellar medium 23 p3840 N84-34358
Pioneer 10 and Voyager observations of the interstellar medium in scattered emission of the He584 A and H Lya 1216 A lines
[NASA-CR-173931] 23 p3840 N84-34361
Use of high resolution IUE spectra of MG 2 in cool stars to probe the local interstellar medium 24 p3973 N84-35156
Interstellar and nebular absorption lines in planetary nebulae 24 p3973 N84-35162
The diffuse interstellar medium in the Magellanic clouds (review) 24 p3974 N84-35163
Carbon and nitrogen abundances in field dwarf stars 24 p3986 N84-35236

INTERSTITIALS
Annealing of interstitial loops in arsenic implanted silicon
[DE84-000384] 05 p0755 N84-14953
On the functional dependence of the freezing point of soils on the composition of water soluble salts in an interstitial solution
[NRC/CNR-TT-2070] 06 p0877 N84-15707
Diffusion mechanisms in transition-metal oxides
[DE84-003460] 08 p1236 N84-18081
Yield enhancement by fault tolerant systolic arrays (summary) 09 p1402 N84-19158
Environmental reactions and their effects on mechanical behavior of metallic materials
[DE84-005768] 12 p1799 N84-21734
Thermodynamic and kinetic properties of interstitial solid solutions
[AD-A132783] 18 p2942 N84-28659

INTERSYMBOLIC INTERFERENCE
Fast evaluation of the numerical error rate in the presence of intersymbolic interference
[CRPE-NT-127] 13 p2029 N84-23158
Applications of differential phase statistics to studies of c3 and spread spectrum communications
[AD-A142204] 19 p3007 N84-29063

INTERVALS
Explicit, nearly optimal, linear rational approximation with preassigned poles
[AD-A131392] 02 p0280 N84-11837
Maze-solving as a performance measurement tool for human operations under time-stress
[AD-A133394] 07 p1050 N84-16799
An interval logic for higher-level temporal reasoning
[NASA-CR-172262] 07 p1053 N84-16821
Preventive maintenance intervals for components of the F-15/F100 aircraft engine
[AD-A135637] 09 p1249 N84-18156
Using interval methods for the numerical solution of ODE'S (Ordinary Differential Equations)
[AD-A136373] 09 p1374 N84-18972
Simplified confidence intervals for an awkward nonlinear model
[AD-A136403] 09 p1374 N84-18975
Interrelationship between temperature intervals of inverse martensite transformation and shape restoration in titanium nickelide-based alloys 12 p1786 N84-21648
Estimating time averages via randomly-spaced observations
[AD-A139315] 14 p2214 N84-24295
Seminar on Zeroing Methods and Applications, spring trimester, 1983 16 p2540 N84-26304
New approaches to robust confidence intervals for location: A simulation study
[AD-A142248] 19 p3094 N84-29646
One-sided r-reliable intervals and their associated confidences on the sum of two Continuous/Independent, random variables
[AD-A143387] 22 p3648 N84-33131
Robust confidence intervals for a scale parameter: A compromise between the Gaussian and the slash
[AD-A143666] 23 p3820 N84-34223

INTRACRANIAL PRESSURE
Development of a new, completely implantable intraventricular pressure meter and preliminary report of its clinical experience
[NASA-TM-77121] 16 p2535 N84-26276

INTRAVEHICULAR ACTIVITY
Changes in 'Soyuz T-10' crew work schedule 19 p2971 N84-28829
Cosmonauts begin research program on 'Salyut-7' 19 p2971 N84-28830

INTRUDER AIRCRAFT
U A-6 AIRCRAFT

INVALIDITY
U ERRORS

INVARIANCE
NT GAUGE INVARIANCE
An algebraic approach to analysis and control of time-scales
[AD-A135115] 08 p1218 N84-17949
Mean field theory of the linear sigma-model: Chiral solitons
[DE84-002864] 08 p1229 N84-18034
Orbit connections in a parabolic equation
[AD-A135986] 09 p1378 N84-18999
The invariance of cones and wedges under flows
[PREPRINT-796] 12 p1817 N84-21848
Invariance properties of the conditional independence relation
[MC-BW-193/83] 17 p2761 N84-27533
A note on average mutual information for spherically invariant processes
[AD-A141401] 19 p3083 N84-29570
A nonstandard construction of Levy Brownian motion
[REPT-82] 20 p3285 N84-30861

INVENTIONS
Improvements noted in patent information system for CEMA member-countries 01 p0158 N84-11038
Pravda article on inventions elicits response 01 p0158 N84-11040
Lack of support for introduction of Soviet inventions scored 01 p0158 N84-11042

Sixth all-union congress of inventors held
01 p0156 N84-11043
Significant NASA inventions available for licensing in foreign countries
[NASA-SP-7038(05)] 09 p1399 N84-19133
Significant NASA inventions available for licensing in foreign countries
[NASA-SP-7038(07)] 09 p1399 N84-19134
Coatings on diamond and CBN abrasives (review of inventions)
[CSIR-TRANS-1742] 22 p3557 N84-32525
Ten year trends in US technological dependence on foreign technology as indicated by referencing from US patents. Appendix
[PB84-196997] 22 p3669 N84-33255
Ten year trends in US technological dependence on foreign technology as indicated by referencing from US patents
[PB84-197003] 22 p3669 N84-33256
East Europe report: Science and technology
[JPRS-ESA-84-025] 24 p3960 N84-35077
Inventions, new technologies approved by Academy of Sciences: Invention using ultrasound
24 p3961 N84-35082
Device for measuring oxygen
24 p3961 N84-35083
Digital electronic hygrometer
24 p3961 N84-35084

INVENTORIES
NT CROP INVENTORIES
NT TIMBER INVENTORY
Estimation of uncertainty in coal resources
[DE83-902538] 03 p0401 N84-12620
Inventory of numeric data for carbon dioxide research
[DE83-017571] 03 p0406 N84-12657
Inventory of federal materials research and technology, fiscal year 1982
[PB83-256610] 05 p0758 N84-14970
Census of US Civil aircraft. Calendar year 1982
[AD-A133161] 06 p0768 N84-15033
Supplement to the technical assessment of geoscience-related research for geothermal energy technology
[DE84-002373] 10 p1530 N84-20020
An inventory planning system
[INPE-2766-PRE/339] 10 p1591 N84-20423
Central Demand Data Base (CDDB) End Item Code (EIC)
[AD-P002807] 13 p2059 N84-23353
Inventory RF radiation levels in the Netherlands, part 1
[LEOK-TR-1984-02-PT-1] 20 p3175 N84-30167
Inventory of geothermal resources in Nebraska
[DE84-009879] 20 p3229 N84-30518
Evaluation of aircraft battery charge, discharge, and analyzation requirements for ground support equipment
[AD-A144243] 24 p3897 N84-34678

INVENTORY CONTROLS
Control of precious-metal plating baths using electrogravimetric analysis
[DE83-016772] 02 p0196 N84-11276
Aircraft Spare Stockage Methodology (aircraft spares) study
[AD-A142259] 19 p2955 N84-28730
AVCAL (Aviation Consolidated Allowance) restoration program and aircraft material condition
[AD-A144045] 23 p3687 N84-33366

INVENTORY MANAGEMENT
NT INVENTORY CONTROLS
The forest resources of Puerto Rico, Forest Service resource bulletin
[PB83-249995] 04 p0556 N84-13665
Forest statistics for southeast Alabama counties, Forest Service resource bulletin
[PB83-250753] 04 p0556 N84-13666
The aircraft availability model: Conceptual framework and mathematics
[AD-A132927] 05 p0626 N84-14115
Use of microcomputers for inventory management with uncertain demand
[DE84-005179] 11 p1705 N84-21112
Mortality and spareparts: A conceptual analysis
[AD-P002826] 13 p2062 N84-23371
Transfer of civil meteorological satellites
[S-REPT-98-260] 14 p2248 N84-24503
The database management module of the SPLICE system
[AD-A132795] 18 p2945 N84-28671
An evaluation of the system 2000 data base management system for use in major item system mapping
[DE84-013130] 21 p3519 N84-32296

INVERSE SCATTERING
Rational function frequency extrapolation in ultrasonic tomography
[AD-A131447] 02 p0288 N84-11888
Effects of dissipation in one-dimensional inverse problems
[DE83-017692] 03 p0362 N84-12353
Inverse born approximation: Exact determination of shape of convex voids
[DE83-017685] 03 p0385 N84-12512
The effect of noisy reflection data on an inverse method for determining the structure of a layered ocean bottom
[AD-A131978] 03 p0430 N84-12820
Linear and nonlinear filtering and related inverse scattering problems
[AD-A135175] 08 p1219 N84-17954
Direct and inverse diffraction problems for QNDE (Quantitative Non-Destructive Evaluation) applications
[AD-A135838] 09 p1327 N84-18668
Research activities of the Applied Mathematics Group
[AD-A137838] 11 p1750 N84-21422
Joint services electronics program
[AD-A140434] 16 p2485 N84-25936
Nonlinear wave propagation
[AD-A141098] 19 p3004 N84-29038
Inverse scattering problem
[AD-A142634] 20 p3291 N84-30894
Profile inversion of a planar medium with a line source or a point source
23 p3776 N84-33938
Radial inversion of TE measurements in a borehole
23 p3776 N84-33940

INVERSIONS
NT CENTRIFUGING STRESS
NT MAGNETIC FIELD INVERSIONS
NT POPULATION INVERSION
NT TEMPERATURE INVERSIONS
Aerosol size distribution using the extinction-sedimentation inversion technique
[AD-A132158] 04 p0563 N84-13711
Conceptual design of a 300-GeV accelerator based on the inverse free-electron laser mechanism
[DE84-001471] 04 p0601 N84-13969
Inverse plasma equilibria
[DE84-000723] 04 p0607 N84-14008
Determination of particle-size distribution by measuring the transmission of an aerosol in sedimentation
[AD-A133288] 06 p0918 N84-15962
Inversion of ringdown data for a rotating liquid cylinder
[AD-A134742] 08 p1159 N84-17546
Generalized inverses of matrices and its applications
[AD-A138274] 12 p1894 N84-22337
Uniqueness in plane inverse problems in gravimetry and magnetometry 17 p2705 N84-27226
Inversion of spectral lineshapes to yield collisional rate constants
[AD-A142661] 20 p3149 N84-29994
Asteroid light inversion
[NASA-CR-173864] 21 p3523 N84-32316
Impurity states in the presence of an interface
[DE84-701192] 24 p3967 N84-35123

INVERTEBRATES
NT ARTHROPODS
NT INSECTS
NT MICROSPORES
NT MOTHS
NT PROTOZOA
Amplitude distributions of the spider heartpulse in response to gravitational stimuli
09 p1353 N84-18841

INVERTED CONVERTERS (DC TO AC)
Discharging a superconducting store into an inverting converter
[AD-A135577] 09 p1341 N84-18761
Development of a new charger system
[BMFT-FB-T-83-305] 15 p2328 N84-24977
A study of the high frequency limitations of series resonant converters
[NASA-CR-173868] 22 p3581 N84-32678
High-intensity discharge (HID) solid-state ballast program: Engineering development report, phase 2
[DE84-013882] 22 p3588 N84-32726

INVERTERS
Pulse width modulated DC link converter development
[AD-A134486] 07 p0997 N84-16467
Integral inverter/battery charger for use in electric vehicles
[NASA-CR-168177] 07 p1088 N84-17073
Development of a solar energy system
[DE83-014236] 08 p1180 N84-17690
Discharging a superconducting store into an inverting converter
[AD-A135577] 09 p1341 N84-18761
Phase inverter based on dielectric stripline waveguide with mobile metal plate 17 p2638 N84-26879
AC propulsion system for an electric vehicle, phase 2
[NASA-CR-168244] 21 p3390 N84-31514

INVESTIGATION
NT ACCIDENT INVESTIGATION
NT AIRCRAFT ACCIDENT INVERTIGATION
NT INTERNATIONAL MAGNETOSPHERIC STUDY
Computational studies in the interpretation of structure and motion: Summary and extension
[AD-A131598] 02 p0265 N84-11746
Fire investigation 04 p0510 N84-13344
The strategic balance, the MX-system and deficiencies in the SALT Treaty
[FOA-C-10207-M3] 07 p0962 N84-16235

INVESTMENT CASTING
Low-cost single-crystal turbine blades, volume 1
[NASA-CR-168218] 06 p0805 N84-15247
Klystron manufacturing technology program
[AD-A135782] 09 p1309 N84-18555
A review of advanced manufacturing technology — gas turbine components
[PNR-90194] 13 p1975 N84-22815

INVESTMENTS
Keynesian chaos
[AD-A132836] 05 p0760 N84-14987
Analysis of incentives for productivity-enhancing investment
[AD-P002770] 13 p2053 N84-23317
Investment justification of robotic technology in aerospace manufacturing
[AD-A140782] 17 p2598 N84-26851
The introduction of uncertainty techniques to the productivity investment fund
[AD-A140864] 17 p2770 N84-27591

INVISCID FLOW
NT STAGNATION FLOW
Explanation of the hypersonic longitudinal stability problem: Lessons learned 01 p0021 N84-10130
Numerical procedure for an inviscid stability analysis of an axisymmetric jet
[PB83-224071] 01 p0083 N84-10537
Stability of a pair of stationary vortices in the leeward side of a cylinder in a potential flowfield
[AD-A131917] 03 p0320 N84-12095
A viscous-inviscid interactive procedure for rotational flow in cascades of two dimensional airfoils of arbitrary shape
[NASA-CR-174609] 04 p0478 N84-13149
Pseudospectral solution of inviscid flows with multiple discontinuities
[AD-A132084] 04 p0534 N84-13510
A lower-upper factored implicit scheme for the numerical solution of the Euler equations applied to arbitrary cascades 06 p0780 N84-15111
Asymptotic theory of an unseparated supersonic turbulent boundary layer at a compression corner
06 p0780 N84-15112
Assessment of three-dimensional inviscid codes and loss calculations for turbine aerodynamic computations
[NASA-TM-83571] 07 p0947 N84-16142
Viscous Effects in Turbomachines
[AGARD-CP-351] 07 p0954 N84-16188
Progress in computation of viscous inviscid interaction
07 p0954 N84-16189
Application of an inviscid-viscous interaction method to transonic compressor cascades
07 p0954 N84-16190
A viscid inviscid interaction procedure for two dimensional cascades 07 p0955 N84-16191
A coupling method for the inverse mode calculation of transonic internal flows with a shock wave
07 p0955 N84-16194
The Froude number for solitary waves
[AD-A134548] 07 p1002 N84-16498
Comparison of secondary flows predicted by a viscous code and an inviscid code with experimental data for a turning duct
[NASA-TM-83575] 08 p1098 N84-17142
A modified lifting line theory for wing-propeller interference
[NASA-CR-173324] 09 p1252 N84-18171
Entropy condition satisfying approximations for the full potential equations of transonic flow
[NASA-TM-85751] 11 p1601 N84-20485
Progress toward the development of an aircraft icing analysis capability
[NASA-TM-83562] 11 p1601 N84-20490
Design of single component airfoils using an inverse boundary element method
[REPT-83-A2-SER-A] 12 p1765 N84-21512
Analysis of inviscid and viscous flows in cascades with an explicit multiple-grid algorithm
[NASA-TM-83636] 13 p1925 N84-22527
Calculation of the flow over a stalled airfoil
13 p1925 N84-22531
ALESEP: A computer program for the analysis of airfoil leading edge separation bubbles
[NASA-CR-172310] 13 p1926 N84-22537
Experimental observations of vortex ring interaction with the fluid adjacent to a surface
[AD-A138999] 13 p1990 N84-22917

Computation of viscous flows over airfoils, including separation, with a coupling approach
[NASA-TM-77079] 14 p2101 N84-23607
The stability of inviscid vortex streets of finite cored vortices
[AD-A139311] 14 p2145 N84-23855
Bubbles rising in a tube and jets falling from a nozzle
[AD-A139266] 14 p2145 N84-23858
Riemann solvers, the entropy condition and high resolution difference approximations
[AD-P002945] 14 p2198 N84-24185
An algorithm for the prediction of unsteady potential flow about an arbitrary aerofoil
[GU-AERO-8306] 15 p2257 N84-24553
High speed inviscid compressible flow by the finite element method
[NASA-CR-173556] 15 p2332 N84-25002
Application of a quasi-3D inviscid flow and boundary layer analysis to the hub-shroud contouring of a radial turbine
[NASA-TM-83669] 16 p2439 N84-25847
A theoretical analysis of the aerodynamic and structural forces associated with a ribbon parachute canopy in steady descent 16 p2443 N84-25871
Spatial derivatives of flow quantities behind curved shocks of all strengths
[NASA-TM-85782] 17 p2600 N84-26665
A quasi-simultaneous calculation method for strongly interacting viscous flow around an infinite swept wing
[NLR-MP-83001-U] 17 p2601 N84-26672
Theoretical modelling of three-dimensional vortex flows in aerodynamics
[AD-A134966] 17 p2667 N84-27007
A numerical view on strong viscous-inviscid interaction
[NLR-MP-83049-U] 17 p2669 N84-27020
Viscous-inviscid interaction method including wake effects for three-dimensional wing-body configurations
[NASA-TP-1910] 18 p2786 N84-27682
PAN AIR: A computer program for predicting subsonic or supersonic linear potential flows about arbitrary configurations using a higher order panel method. Volume 1: Theory document (version 1.1)
[NASA-CR-3251] 18 p2788 N84-27697
Three-dimensional rotational inviscid flow calculation — turbomachines 19 p3022 N84-29166
Conduct of the International Multigrid Conference
[NASA-CR-173823] 19 p3090 N84-29618
Computation of inviscid transonic flow using flux vector splitting in generalized coordinates
21 p3323 N84-31087
Simulation of transonic separated airfoil flow by finite difference viscous-inviscid interaction
[NASA-TM-85980] 22 p3531 N84-32358
Representation of potential flow about axisymmetric bodies with discrete singularities
[AD-A143526] 22 p3594 N84-32760
Second- and third-order upwind difference schemes for hyperbolic conservation laws
[NASA-TM-85959] 22 p3644 N84-33106
Parabolized Navier-Stokes solutions for hypersonicflow fields 23 p3688 N84-33373
Unsteady viscous-inviscid interaction procedures for transonic airfoil flows
[AD-A143764] 23 p3690 N84-33390
A fast accurate algorithm for solving the steady 3-dimensional equations for inviscid rotational flow
23 p3746 N84-33745
Enthalpy damping for the steady Euler equations
[NASA-TM-86008] 24 p3950 N84-35009

INVISIBILITY
U VISIBILITY

IO
A dawn to dusk electric field in the Jovian magnetosphere
[NASA-CR-166463] 06 p1245 N84-18136
Significant achievements in the planetary geology program
[NASA-CR-3782] 11 p1758 N84-21474
Laboratory infrared studies relevant to Io: A satellite to the planet Jupiter
[NASA-CR-173378] 12 p1922 N84-22522
The plumes of IO: A detection of solid sulfur dioxide particles
[NASA-CR-175414] 12 p1922 N84-22523
Outer satellite atmospheres: Their extended nature and planetary interactions
[NASA-CR-173395] 12 p1922 N84-22524
The Laplacian resonance and tidal dissipation
13 p2073 N84-23434
The structure of the Ionian lithosphere
13 p2073 N84-23435
Modeling Io volcanism: Maximum volcanic temperatures, depths of melting and magma composition 13 p2073 N84-23436
Volcanic forms in the Kane Patera region, Io
13 p2073 N84-23437
New models for landform evolution on Io
13 p2074 N84-23443
High-resolution color images of Io
13 p2075 N84-23446
Short time-scale surface changes on Io
13 p2075 N84-23447
Classification of volcanoes of the Kane Patera Quadrangle of Io: Proportions of lava flows and pyroclastic flows 13 p2080 N84-23477
The 1950 sulfur flow of Mauna Loa: Considerations for Io 13 p2080 N84-23479
Geologic investigations of outer planets satellites
[NASA-CR-173497] 13 p2091 N84-23544
A summary of whistlers observed by Voyager 1 at Jupiter
[NASA-CR-173415] 13 p2091 N84-23545
Determination of the Io heat flow. 1: Eclipse observations
[NASA-CR-173631] 17 p2774 N84-27614
The 10 plasma torus: Its structure and sulfur emission spectra 17 p2776 N84-27626
On Io, all that flickers is not cold
[NASA-CR-173447] 17 p2777 N84-27631
10: Models of volcanism and interior structure
17 p2777 N84-27634
A modeling analysis program for the JPL Table Mountain Io sodium cloud data
[NASA-CR-173971] 23 p3844 N84-34386

IODIDES
NT CESIUM IODIDES
Crystal growth and applications of mercuric iodide
[DE83-016731] 02 p0299 N84-11966
Development of a mercuric iodide solid state spectrometer for X-ray astronomy
[NASA-CR-175330] 06 p0938 N84-16096
Mechanism and kinetics of the oxidation of the iodide ion by oxygen
[BLL-CE-TRANS-8005-(9022.09)]
19 p2987 N84-28924

IODINE
NT IODINE ISOTOPES
NT IODINE 131
The 182-Hf: A new short-lived r-process chronometer
[DE83-015698] 05 p0764 N84-15009
Flowfield measurements in a model scramjet combustion using laser-induced iodine fluorescence
[NASA-CR-175399] 10 p1419 N84-19283
Photoionization investigation of iodine molecules and clusters in a supersonic molecular beam
[AD-A142645] 20 p3292 N84-30901

IODINE COMPOUNDS
NT CESIUM IODIDES
NT IODIDES
Detailed kinetic studies of excited and/or transient species
[AD-A137278] 10 p1500 N84-19804

IODINE ISOTOPES
NT IODINE 131
Chain reaction mechanism for I2 dissociation in the O2 (1 delta)-I atom laser
[AD-A134370] 07 p1010 N84-16548

IODINE LASERS
Optically pumped ultraviolet and infrared lasers driven by exploding metal films and wires
[DE83-014169] 02 p0226 N84-11484
Chain reaction mechanism for I2 dissociation in the O2 (1 delta)-I atom laser
[AD-A134370] 07 p1010 N84-16548
Threshold kinetics of a solar-simulator-pumped iodine laser
[NASA-TP-2241] 08 p1163 N84-17575
A z-pinch photo-pumped pulsed atomic iodine laser
[AD-A140033] 15 p2410 N84-25468
Singlet oxygen generator for a solar powered chemically pumped iodine laser
[NASA-CR-172364] 19 p2982 N84-28899
Studies of new media radiation induced laser
[NASA-CR-173846] 21 p3408 N84-31616
Transverse flow CW atomic iodine laser system
[AD-D011096] 22 p3601 N84-32810

IODINE 131
Nuclear-medicine
[DE84-000346] 04 p0571 N84-13759

ION ACCELERATORS
Ion-source and ion-accelerator development at Los Alamos
[DE83-014123] 01 p0146 N84-10959
High-sensitivity mass spectrometry with a tandem accelerator
[DE83-017914] 03 p0350 N84-12274
New heavy-ion-fusion accelerator research program
[DE83-014896] 04 p0609 N84-14016
Ion beam accelerator system
[NASA-CASE-NPO-15547-1] 07 p1071 N84-16959
Light ion beam fusion research at Sandia National Laboratories
[DE84-002109] 07 p1078 N84-17007
Auroral ion acceleration
[PR-783] 08 p1184 N84-17715
Collective ion acceleration by a reflexing electron beam: Model and scaling
[AD-A141241] 18 p2929 N84-28577
Beam experiment programs in the USA
[DE84-010804] 21 p3493 N84-32138
Concept of a superconducting linac for low-velocity ions
[DE84-011740] 21 p3496 N84-32154
Present status and probable future capabilities of heavy-ion linear accelerators
[DE84-011741] 22 p3653 N84-33158
Investigation of ion beam production and acceleration using linear electron beams and a pulse powered plasma focus
[AD-A144525] 24 p3962 N84-35088

ION ACOUSTIC WAVES
Filamentation instability of ion acoustic waves driven by a scattered relativistic beam
[DE84-001323] 04 p0599 N84-13956
The HF-enhanced plasma line
05 p0635 N84-14180

ION ATOM INTERACTIONS
Interaction potentials in substitutional solid solutions
[BLL-M-35132-(5828.4)] 01 p0152 N84-10998
Cross sections for charge transfers of highly ionized ions in hydrogen atoms
[IPPJ-AM-30] 03 p0443 N84-12912
Progress in numerical calculations of ion-atom collisions
[DE84-003405] 08 p1229 N84-18033
Learning from numerical calculations of ion-atom collisions
[DE84-003265] 08 p1229 N84-18035
Low energy ion-neutral collisions
[DE84-005392] 11 p1730 N84-21287

ION BEAMS
Numerical simulation of high energy light ion beam flow through a foilless diode
[AD-A131001] 02 p0289 N84-11892
Radioactive-ion-beam research at Livermore
[DE83-014872] 02 p0297 N84-11946
Selective laser ionization for mass-spectral isotopic analysis
[DE83-017303] 03 p0381 N84-12483
Observation of multiple ion beams in the magnetotail low latitude boundary layer. Evidence for a double H+ population
[IFSI-82-10] 03 p0409 N84-12676
Using inner-shell X-rays as an ion-beam diagnostic
[DE83-017784] 03 p0436 N84-12857
Beam-target interaction of intense ion beams: Theory and experiment
[DE83-018264] 03 p0436 N84-12858
Magnetic trapping of intense ion beams
[DE83-017356] 03 p0437 N84-12886
Rotating and propagating LIB stabilized by self-induced magnetic field
[IPPJ-640] 03 p0444 N84-12916
Inertial fusion with low-energy heavy ions
[DE83-016709] 03 p0446 N84-12934
Ion stopping in heated targets
[DE83-017800] 03 p0447 N84-12941
Diagnosing the ion beam on the applied-B diode
[DE83-017822] 03 p0447 N84-12943
Light-ion-beam fusion
[DE83-018263] 03 p0448 N84-12944
Proceedings of the Workshop on Ion Mixing and Surface Layer Alloying
[DE83-015354] 03 p0455 N84-12994
Spectral analysis of magnetohydrodynamic fluctuations near interplanetary schocks
[NASA-TM-85119] 03 p0462 N84-13044
Irradiation response in titanium-modified austenitic stainless steels prepared by rapid-solidification processing. Part 2. Dual-ion irradiations
[DE84-001297] 04 p0500 N84-13282
The Marshall Space Flight Center Low-Energy Ion Facility: A preliminary report
[NASA-TM-82559] 04 p0596 N84-13933
Magnetic field measurements of superconducting magnets for the colliding beam accelerator
[DE83-017351] 04 p0603 N84-13982
Ion-beam surface analysis in plasma-edge studies
[DE84-001578] 04 p0607 N84-14004
Hybrid ion diode theory and computations
[DE84-000102] 04 p0610 N84-14029
Observation of waves induced by an artificial ion beam in the ionosphere 05 p0635 N84-14176
Dynamics of quasineutral beams
05 p0639 N84-14201

Plasma jet effects on the ionospheric plasma
05 p0639 N84-14202
The experiment Phenomena Induced by Charged Particle Beams (PICPAB) on board Spacelab 1
05 p0641 N84-14220
Electrostatic ion-cyclotron waves in magnetospheric plasmas: Non-local aspects
[NASA-CR-174501] 05 p0749 N84-14917
Energetic ion beam-plasma interactions
[AD-A133816] 05 p0749 N84-14918
Ion channeling analysis of GaAs/sub x/P/sub 1-x/GaP strained-layer superlattices
[DE84-002536] 05 p0755 N84-14952
Ion plating in corrosion protection
[DE84-001182] 06 p0807 N84-15256
Effects of pulsed dual-ion irradiation on phase transformations and microstructure in Ti-modified austenitic alloy
[DE84-001985] 06 p0807 N84-15257
Ion-beam analysis and ion implantation in the study of diffusion
[DE84-000354] 06 p0924 N84-16008
Swelling behavior of a simple ferritic alloy
[DE84-003162] 07 p0976 N84-16329
Ion beam accelerator system
[NASA-CASE-NPO-15547-1] 07 p1071 N84-16959
Light ion beam fusion research at Sandia National Laboratories
[DE84-002109] 07 p1078 N84-17007
Power-amplification of a heavy-ion beam in an induction linac
[DE84-002911] 08 p1231 N84-18042
Laboratory degradation of Kapton in a low energy oxygen ion beam
[NASA-TM-83530] 09 p1272 N84-18310
Ion beam assisted deposition of SiO2
[AD-A136247] 09 p1278 N84-18342
Status of light ion inertial fusion research at NRL (Naval Research Laboratory)
[AD-A135951] 09 p1392 N84-19087
Sheath ionization model of beam emissions from large spacecrafts
[AD-A137181] 10 p1448 N84-19463
Advanced ion thruster research
[NASA-CR-168340] 10 p1450 N84-19467
Sensitive collinear laser spectroscopy on fast atom and ion beams
[DE84-003403] 10 p1456 N84-19512
Radiation and particle emission from a 1.6 kJ plasma focus 10 p1581 N84-20362
Studies on ion beams produced in a plasma focus, part 2 10 p1582 N84-20364
Observation of nonlinear phenomena — in the plasma focus 10 p1584 N84-20385
Sloshing-ion equilibria in the TARA endplugs
[DE84-003360] 11 p1738 N84-21337
Welding with alloying and ultrasonic treatment with an ion beam 12 p1786 N84-21652
Ion-beam nitriding of steels
[NASA-TM-83599] 12 p1797 N84-21719
Ionized cluster beam deposition
12 p1840 N84-21995
Dry etching of metallization 12 p1840 N84-21997
Heavy ion fusion reactor HIBLIC-1. Conceptual design of heavy ion fusion reactor
[IPPJ-663] 12 p1909 N84-22438
Negative ion beam requirements for compact tori
[DE84-005752] 12 p1910 N84-22447
Negative-ion formation from surface scattering and the Anderson correlation energy U
[AD-A138390] 12 p1914 N84-22473
Modification of the near surface region metastable phases and ion induced reactions
[AD-A138842] 13 p1952 N84-22694
Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] 13 p2019 N84-23095
Formation of negative ions by charge transfer: He(-) to Cl(-)
[DE84-005718] 13 p2041 N84-23243
Ion-induced surface modification of alloys
[DE84-006664] 14 p2243 N84-24468
LSI/VLSI (Large Scale Integration/Very Large Scale Integration) ion implanted GaAs (Gallium Arsenide) IC processing. Appendix B: Two-dimensional modeling of GaAs MESFET devices for integrated high-speed logic circuits
[AD-A139678] 15 p2328 N84-24981
Interactions of fast atomic and molecular ions with matter
[DE84-006555] 15 p2405 N84-25438
Heavy ion beam probe for the study of plasma confinement in Nagoya bumpy torus
[IPPJ-669] 15 p2409 N84-25462
Energetic ion beam-plasma interactions
[AD-A140173] 16 p2558 N84-26412
Development and application of SIMS (Secondary Ion Mass Spectrometry) characterization techniques for the study of impurities and impurity motion in (HgCd)Te and CdTe
[AD-A140712] 17 p2619 N84-26759
Ion implantation metallurgy: A study of the composition, structure and corrosion behavior of surface alloys formed by ion implantation and ion beam mixing
[AD-A140713] 17 p2624 N84-26792
Generation of broadband electrostatic noise by ion beam instabilities in the magnetotail
[NASA-CR-173643] 17 p2728 N84-27362
Ion sputter textured graphite electrode plates
[NASA-CASE-LEW-12919-2] 18 p2928 N84-28565
Study of dry resistant techniques for electron beam lithography
[BMFT-FB-T-84-037] 19 p3028 N84-29206
Steady-state solutions of propagating LIB with rotating motion
[IPPJ-672] 19 p3106 N84-29734
The effect of trapped electrons on the beam-induced current 2
[IPPJ-673] 19 p3106 N84-29736
Ion implantation, ion beam mixing and annealing studies of metals in Al2O3, SiC and Si3N4
[DE84-012336] 20 p3157 N84-30052
Evolution of cavity microstructure in ion-irradiated 316 SS and Fe-20Ni-15Cr alloy
[DE84-012111] 20 p3158 N84-30053
A high current heavy ion beam transport experiment at LBL
[DE84-009225] 20 p3294 N84-30912
Accelerator-based atomic physics experiments with photon and ion beams
[DE84-010789] 20 p3296 N84-30928
Calculation of ballistic focusing of ion beams
[DE84-012870] 20 p3297 N84-30934
Transverse field focused system
[DE84-011070] 20 p3298 N84-30942
Ion beamlet steering for two-grid electrostatic thrusters
[NASA-CR-174671] 21 p3354 N84-31274
Ion bombardment effects of the fatigue life of stainless steel under simulated fusion first wall conditions
[DE84-001300] 21 p3367 N84-31359
Dual ion beam deposition of carbon films with diamondlike properties
[NASA-TM-83743] 21 p3390 N84-31512
Beam experiment programs in the USA
[DE84-010804] 21 p3493 N84-32138
Electron capture cross sections in high energy He2+ + neutral Li collisions
[IPPJ-679] 21 p3500 N84-32182
Current status of calculations and measurements of ion stopping power in ICF plasmas
[DE84-005880] 21 p3501 N84-32187
Improved heat exchanger for electrothermal devices
[NASA-CASE-LEW-14037-1] 22 p3542 N84-32425
Experiments on interaction of keV particle beams with the ionosphere
[AD-A143277] 22 p3623 N84-32957
Ultraviolet laser triggering of the 6 MV PBFA-2 gas switch
[DE84-014004] 23 p3755 N84-33802
Research studies on magnetohydrodynamic systems and modeling solar dynamical behavior
[AD-A143680] 23 p3844 N84-34389
Investigation of ion beam production and acceleration using linear electron beams and a pulse powered plasma focus
[AD-A144525] 24 p3962 N84-35088
Chemical etching of transformed structures
[AD-D011188] 24 p3966 N84-35114

ION CHAMBERS
U IONIZATION CHAMBERS

ION CHARGE
Iron charge states observed in the solar wind
03 p0473 N84-13112
Mixed solar wind originating from coronal regions of different temperatures 03 p0473 N84-13114
Interpreting the solar wind ionization state
03 p0473 N84-13115
The ISPM solar-wind ion composition spectrometer
09 p1261 N84-18232

ION CONCENTRATION
Solar wind minor ions: Recent observations
03 p0472 N84-13110
The relative abundance of 3He(++) in the solar wind
03 p0473 N84-13111
Spatial variation of iron abundance in the high speed solar wind, 1972 to 1976 03 p0473 N84-13113
Cellular localization of Na(+), K(+)-ATPase in the mammalian vestibular system 09 p1359 N84-18880
Ionic mechanisms of carbon formation in flames
[AD-A137079] 10 p1455 N84-19505
Ion-molecule reactions and plasma parameters of positive column in oxygen glow discharge
21 p3476 N84-32036
Numerical analysis on the ion species ratios in a steady state hydrogen plasma
[IPPJ-687] 23 p3826 N84-34269

ION CURRENTS
NT ION BEAMS
Plasma source for spacecraft potential control
[NASA-CR-174552] 01 p0026 N84-10177
Ionic conductivity in lithium hexaoxometallate solid solutions
[AD-A131842] 03 p0346 N84-12250
Defect interactions at high concentrations in solid oxide electrolytes
[DE83-016849] 03 p0455 N84-12992
Principles of superionic conduction
[DE84-001215] 04 p0615 N84-14044
Chloride ion conductivity in a plasticized quaternary ammonium polymer
[AD-A135373] 08 p1124 N84-17305
Ionic conductivity of Li7BiO6
[AD-A135386] 08 p1124 N84-17307
Atom-jump versus continuous models for fast ion conduction 11 p1741 N84-21357
Defect electrochemistry of oxide electrodes
11 p1742 N84-21364
Relation between structure and conductivity in the nasicon solid solution system 11 p1743 N84-21374
Ion-ion correlations and phase transitions in nasicon type materials 11 p1743 N84-21375
Synthesis of Co2+ and Ni2+ stabilized beta alumina
11 p1744 N84-21378
Ionic conductivity in lithium hexaoxometallate solid solutions 11 p1744 N84-21379
Association and bound motion in alkali metal doped cadmium fluoride
[AD-A143200] 22 p3548 N84-32450
Multicomponent diffusion under general chemical potential gradients
[DE84-010830] 22 p3548 N84-32458
Anomalous pressure dependence of dipolar relaxation times in rare earth doped lead fluoride
[AD-A143201] 22 p3662 N84-33215

ION CYCLOTRON RADIATION
ICRF waveguide couplers — tokamak devices
[DE84-004042] 09 p1392 N84-19092
ICRF heating experiments on JIPP T-II
[IPPJ-650] 10 p1580 N84-20352
Buildup and sustainment of 10(13) and cm(-3) plasma by ICRF in RFC-XX
[IPPJ-653] 10 p1580 N84-20356
Ion Bernstein wave heating experiment on JIPPT-II-U device
[IPPJ-662] 11 p1734 N84-21305
External excitation of ion cyclotron drift waves in a two-ion species plasma
[IPPJ-685] 13 p2044 N84-23264
Plasma Physics on auroral field lines: The formation of ion conic distributions
[NASA-CR-173683] 18 p2932 N84-28595
Monte Carlo studies of tandem mirror plasmas interacting with waves in the Ion Cyclotron Range of Frequencies
[DE84-008901] 18 p2934 N84-28605
Theoretical studies of Elmo Bumpy Torus (EBT)
[DE84-010614] 20 p3303 N84-30978
Density variation due to wave heating in Tokamak plasmas
[DE84-009402] 20 p3305 N84-30993
RF-induced stability and transport in axisymmetric tandem mirrors
[DE84-010642] 20 p3306 N84-30999
Alpha-particle simulation using NBI beam and ICRF wave
[IPPJ-688] 23 p3827 N84-34270
Impurity origin during ICRF heating in JIPP T-IIU Tokamak
[IPPJ-682] 23 p3827 N84-34271

ION DENSITY (CONCENTRATION)
NT IONOSPHERIC ION DENSITY
NT MAGNETOSPHERIC ION DENSITY
Heat conduction process in Tokamak hot-ion plasmas
[DE83-014884] 01 p0150 N84-10967
Io: Escape and ionization of atmospheric gases
[NASA-CR-174580] 05 p0702 N84-14807
A study of plasmaspheric density distributions for diffusive equilibrium conditions
[AD-A132643] 05 p0703 N84-14815
Particle and field signatures of substorms in the near magnetotail
[DE84-003777] 11 p1683 N84-20984
Analysis of Voyager observations of ion and electron phase space densities in the magnetospheres of Jupiter and Saturn 16 p2580 N84-26548

Research in dense plasma atomic physics
[AD-A141538] 19 p3107 N84-29740
A Gerdien condenser system for measuring stratospheric charged particle densities
[AD-A143317] 22 p3623 N84-32958

ION DISTRIBUTION
A study of the large-scale structure of the plasmasphere using extreme ultraviolet observations
02 p0306 N84-12009
Observation of multiple ion beams in the magnetotail low latitude boundary layer. Evidence for a double H+ population
[IFSI-82-10] 03 p0409 N84-12676
Calculation of ion charge-state distribution in ECR ion sources
[DE84-000517] 04 p0600 N84-13957
Plasma Physics on auroral field lines: The formation of ion conic distributions
[NASA-CR-173683] 18 p2932 N84-28595
Theoretical studies of Elmo Bumpy Torus (EBT)
[DE84-010814] 20 p3303 N84-30978

ION EMISSION
Experimental studies of secondary ion emission from well-characterized surfaces
[AD-A133186] 06 p0914 N84-15943
Resonance between channeled particle wavelengths and periodicity of strained-layer superlattices
[DE84-002173] 07 p1081 N84-17032
Ion and neutron emission of the Poseidon plasma focus 10 p1582 N84-20370
Fracto-emission from graphite/epoxy composites
[NASA-CR-173845] 21 p3357 N84-31291

ION ENGINES
NT MERCURY ION ENGINES
NT RIT ENGINES
Sputtering phenomena in ion thrusters
[NASA-CR-168172] 09 p1274 N84-18322
Test bed ion engine development
[NASA-CR-174623] 11 p1624 N84-20632
Cathode degradation and erosion in high pressure arc discharges
[NASA-TM-83636] 13 p1942 N84-22631
Performance capabilities of the 12-centimeter Xenon ion thruster
[NASA-TM-83674] 18 p2808 N84-27825
Analysis of electric propulsion orbit transfer vehicles versus IUS, CENTAUR-G, and a reuseable bipropellant system
[AD-A141173] 18 p2808 N84-27827
Tracking and Data Relay Satellite launch recovery mission 20 p3137 N84-29918
Thermionic conversion reactor technology assessment
[DE84-007611] 22 p3655 N84-33188

ION EXCHANGE MEMBRANE ELECTROLYTES
Reference plant for high temperature electrodialysis desalting of seawater
[PB84-195841] 22 p3549 N84-32471

ION EXCHANGE RESINS
Analytical chemistry 06 p0796 N84-15189
Chemical properties and film casting of radiation grafted ion-containing polymers
[AD-A138551] 13 p1963 N84-22754
Ion exchange selectivity of Nafion films on electrode surfaces
[AD-A140824] 17 p2620 N84-26764
Biocidal quaternary ammonium resin
[NASA-CR-171802] 19 p3063 N84-29433

ION EXCHANGING
The plasma membrane calcium pump
02 p0264 N84-11734
Carboxylic acid ionophores as probes of the role of calcium in biological systems 02 p0264 N84-11735
The heterogeneous nucleation of ice I
06 p0617 N84-15325
Effect of pressure on conductivity in Poly(Ethylene oxide) complexed with alkali metal salts
[AD-A134562] 07 p0970 N84-16285
Hydration of (BETA)-prime-prime-alumina
[DE83-015606] 07 p1083 N84-17041
Pilot system for the purification of rinse water and for the recuperation of metals in electroplating companies. Pilot system metal recovery from waste water (RIMA)
[BMFT-FB-T-83-208] 08 p1126 N84-17323
The plasma sheet boundary layer
[AD-A137399] 10 p1537 N84-20069
Proceedings of the Conference on High Temperature Solid Oxide Electrolytes. Volume 2: Cation conductors
[BNL-51728-VOL-2] 11 p1742 N84-21368
Transport behavior of multivalent beta aluminas
11 p1743 N84-21370
Proton transport in beta alumina
11 p1743 N84-21371
Borophosphate vitreous electrolytes: The relationship between local order, thermal stability and ion transport
11 p1743 N84-21372
Negative-ion formation from surface scattering and the Anderson correlation energy U
[AD-A138390] 12 p1914 N84-22473
Kinetics of chromium ion absorption by cross-linked polyacrylate films
[NASA-TM-83661] 14 p2118 N84-23693
Ion exchange selectivity of Nafion films on electrode surfaces
[AD-A140824] 17 p2620 N84-26764
Agricultural waste water reverse osmosis pretreatment
[PB84-153543] 17 p2725 N84-27347
Friction and wear characteristics of molecular compound classes from lubricating base oils. Part 1: Separation and chemical characterization
[PB84-167741] 18 p2820 N84-27904
Anion permeselective membrane
[NASA-CR-174725] 19 p3050 N84-29358
Preliminary studies of the total cation exchange capacity of sediments from two North Atlantic study sites
[IOS-158] 19 p3062 N84-29430
Transport behavior of multivalent beta aluminas
[AD-A142968] 21 p3370 N84-31382
High performance liquid chromatographic studies of the ion exchange selectivity of Nafion
[AD-A144646] 24 p3881 N84-34585

ION EXTRACTION
Ion beam accelerator system
[NASA-CASE-NPO-15547-1] 07 p1071 N84-16959
Concept for a volume-type tandem three-chamber negative hydrogen ion source
[DE84-003338] 07 p1073 N84-16971
Ion extraction capabilities of two-grid accelerator systems
[NASA-CR-174621] 10 p1450 N84-19468
Extraction of volume produced H(-) or D(-) ions from a sheet plasma 2
[IPPJ-666] 15 p2409 N84-25480

ION IMPACT
Impact ionization effects on Pioneer Venus Orbiter
08 p1118 N84-17270
Laboratory measurement of impact ionization
08 p1118 N84-17271
Impact ionization in semiconductors by microwave field in the presence of an arbitrarily oriented constant magnetic field 18 p2825 N84-27932

ION IMPLANTATION
Charge characteristics of ion-implanted and annealed nitride/oxide/Si structures
[DE83-012625] 01 p0153 N84-11009
Axial-channeling studies of strained layer superlattices
[DE83-013309] 01 p0154 N84-11010
Microstructure and properties of TiB2 implanted with 1-MeV nickel
[DE83-014020] 01 p0154 N84-11012
Dopant incorporation during nonequilibrium solidification
[DE83-014052] 01 p0154 N84-11014
Microstructures of pulse-melted Fe-Ti-C alloys
[DE83-015213] 01 p0155 N84-11024
Structure-property relationships in ion-implanted ceramics
[DE83-015505] 02 p0202 N84-11313
Proceedings of the Workshop on Ion Mixing and Surface Layer Alloying
[AD-A131469] 02 p0289 N84-11895
Matrix calibration for the quantitative analysis of layered semiconductors by secondary ion mass spectrometry
[AD-A130972] 02 p0296 N84-11954
Kinetics of solid-phase crystallization in ion-implanted and deposited amorphous-silicon films
[DE83-015499] 02 p0300 N84-11967
Semiconductor processing with excimer lasers
[DE83-007509] 03 p0380 N84-12477
Proceedings of the Workshop on Ion Mixing and Surface Layer Alloying
[DE83-015354] 03 p0455 N84-12994
Physics of ion implantation: Ion-cascade processes and physical state of the implanted solid
[DE83-017152] 03 p0455 N84-12998
Reduction of tritium permeation through iron using aluminum-ion implantation
[DE84-000184] 04 p0500 N84-13279
Measurement of friction and wear on modified surfaces
[AD-A132364] 04 p0544 N84-13583
X-ray and backscattering analysis of ion implantation phenomena in GaAs and related compounds
[AD-A132429] 04 p0612 N84-14038
Solid-State Division
[DE84-000296] 04 p0613 N84-14045
Laser and electron beam processing of semiconductors: CW beam processing of ion implanted silicon
[AD-A133758] 05 p0754 N84-14943
Ion-implanted strained-layer superlattice devices
[DE84-000101] 05 p0754 N84-14949
Ion-beam analysis and ion implantation in the study of diffusion
[DE84-000354] 06 p0924 N84-16008
Microstructures of stainless steels exhibiting reduced friction and wear after implantation with Ti and C
[DE84-002252] 07 p0975 N84-16318
Ion implantation in polymers
[AD-A134482] 07 p0979 N84-16342
Pulsed laser melting: The effect of implanted solutes on the resolidification velocity
[DE84-003252] 07 p1010 N84-16552
The use of ion implantation for materials processing
[AD-A134457] 07 p1072 N84-16983
Hollow cathode apparatus
[NASA-CASE-NPO-15560-1] 07 p1076 N84-16993
Resonance between channeled particle wavelengths and periodicity of strained-layer superlattices
[DE84-002173] 07 p1081 N84-17032
Quantitative Secondary Ion Mass Spectroscopy (SIMS)
[AD-A134195] 08 p1125 N84-17315
Friction and wear reduction of 440C stainless steel by ion implantation
[DE84-003255] 08 p1133 N84-17371
Ion beam modification of ceramics
[DE84-003302] 08 p1138 N84-17403
Particle scattering studies on foreign ions in superionic conductors
[AD-A137231] 10 p1588 N84-20406
The 30-GHz monolithic receive module
[NASA-CR-168326] 11 p1642 N84-20737
Radiation damage and defect behavior in ion-implanted, lithium counterdoped silicon solar cells
[NASA-TM-83646] 13 p1985 N84-22890
Fundamental studies of growth, doping and transformation in beta silicon carbide
[AD-A139179] 14 p2241 N84-24458
Ion implanted GaAs IC. Process technology
[AD-A139348] 14 p2242 N84-24461
Impurity and defect interactions in GaAs
[AD-A139592] 14 p2243 N84-24465
Observations of damage and transport of hydrogen in ion bombarded polycrystalline silicon
[DE84-008035] 14 p2243 N84-24466
Ion-induced surface modification of alloys
[DE84-006664] 14 p2243 N84-24468
LSI/VLSI (Large Scale Integration/Very Large Scale Integration) ion implanted GaAs (Gallium Arsenide) IC processing
[AD-A139676] 15 p2328 N84-24979
LSI/VLSI (Large Scale Integration/Very Large Scale Integration) ion implanted GaAs (Gallium Arsenide) IC processing. Appendix A: Feasibility analysis of Gallium-Arsenide mask programmable functions and logic arrays for high performance communications systems
[AD-A139677] 15 p2328 N84-24980
LSI/VLSI (Large Scale Integration/Very Large Scale Integration) ion implanted GaAs (Gallium Arsenide) IC processing. Appendix B: Two-dimensional modeling of GaAs MESFET devices for integrated high-speed logic circuits
[AD-A139678] 15 p2328 N84-24981
Investigation of charge coupled devices for signal processing
[AD-A139820] 15 p2329 N84-24985
Materials research for advanced inertial instrumentation. Task 2: Gas bearing material development
[AD-A140435] 16 p2446 N84-25690
Ion implantation metallurgy: A study of the composition, structure and corrosion behavior of surface alloys formed by ion implantation and ion beam mixing
[AD-A140713] 17 p2624 N84-26792
The use of novel processing procedures for improving the overall fatigue resistance of high strength aluminum alloys
[AD-A141107] 19 p2993 N84-28966
Novel antistatic packaging materials
[AD-D011069] 19 p3000 N84-29012
Cell and defect behavior in lithium-counterdoped solar cells 19 p3046 N84-29322
Ion implantation, ion beam mixing and annealing studies of metals in Al2O3, SiC and Si3N4
[DE84-012336] 20 p3157 N84-30052
Diffusion and electrical properties of sulfur implanted in gallium arsenide
[AD-A142405] 20 p3308 N84-31012
Ion bombardment effects of the fatigue life of stainless steel under simulated fusion first wall conditions
[DE84-001300] 21 p3367 N84-31359
Method for fabricating MNOS structures utilizing hydrogen ion implantation
[AD-D011123] 22 p3661 N84-33208
Basic problems in InP technology
[AD-A143456] 22 p3663 N84-33222

A modified tritium trick technique for doping vanadium alloys with helium
[DE84-014267] 23 p3720 N84-33581
Process research of non-CZ silicon material
[NASA-CR-173954] 23 p3787 N84-34017
Development and fabrication of a solar cell junction processing system
[NASA-CR-174948] 23 p3788 N84-34024
Excimer laser annealing to fabricate low cost solar cells
[NASA-CR-173938] 23 p3788 N84-34027

ION INJECTION
Effect of oxygen monolayer coverages on titanium sputtering yields as determined by simultaneous laser fluorescence and Auger measurements
[DE83-014716] 01 p0046 N84-10296
Atomic hydrogen beam probing with spectroscopic technique 11 p1736 N84-21324
RFQ development at LBL
[DE84-006762] 13 p2045 N84-23271
Characteristics of a plasma-injection-controlled discharge for CO2 mixing lasers
[MRL-R-922] 16 p2497 N84-26020
Proceedings of Collaborating Research Meeting on Particle-Beam Applications to Fusion Research
[IPPJ-678] 21 p3500 N84-32184

ION IRRADIATION
NT PROTON IRRADIATION
Radiation damage and phase instability in irradiated stainless steel
[DE83-017190] 03 p0354 N84-12303
Study of ion-solid interactions and material characterization with a new high-resolution scanning ion probe
[AD-A133896] 05 p0647 N84-14257
Effects of pulsed and/or dual ion irradiation on microstructural evolution in a Ti and Si modified Austenitic alloy
[DE84-003411] 08 p1134 N84-17374
Temperature aspects of pulsed ion bombardment in an austenitic alloy
[DE84-003382] 08 p1134 N84-17376
Study of ion bombardment-induced subsurface compositional modifications in Ni-Cu alloys at elevated temperatures by ion scattering spectroscopy
[DE84-003632] 08 p1135 N84-17380
Effect of ion sputtering on the interface chemistry and electrical properties of Au/n-GaAs (100) Schottky contacts 09 p1393 N84-19099
Effect of ion sputtering on interface chemistry and electrical properties of an GaAs (100) Schottky contacts 09 p1393 N84-19100
Effect of ion treatment of substrates on initial stage of buildup of metal films 21 p3378 N84-31439
Probing a plasma with high-energy beams of atoms using threshold detectors
[DE84-013360] 21 p3502 N84-32195
Ion bombardment damage in a modified Fe-9Cr-1Mo steel
[DE84-014288] 22 p3557 N84-32522
The energy dependence and surface morphology of Kapton (trademark) degradation under atomic oxygen bombardment 24 p3863 N84-34484

ION MICROSCOPES
Study of ion-solid interactions and material characterization with a new high-resolution scanning ion probe
[AD-A133896] 05 p0647 N84-14257
Study of field adsorption using pulsed-laser atom-probe field-ion microscopy
[DE84-002280] 05 p0687 N84-14513
Field ion microscopy and spectroscopy of hydrogen in metals
[DE84-012972] 21 p3368 N84-31366

ION MOTION
Ion mass spectrometer
[NASA-CASE-NPO-15423-1] 18 p2838 N84-28016
Nuclear magnetic resonance studies of ion motion in solid electrolytes
[DE84-013846] 22 p3665 N84-33238

ION OSCILLATION
U PLASMA OSCILLATIONS

ION PLATING
Comparative study of TiN hard coatings produced by reactive sputtering, ion-plating and CVD technique
[BLL-RARDE-TR-1094(7291.7965)] 06 p0804 N84-15236
Adhesion studies on ion plated TiN steel
[BLL-RISLEY-TR-4880-(9091.9F)] 08 p1129 N84-17341
Metallic glass as a temperature sensor during ion plating
[NASA-TM-83566] 08 p1130 N84-17351
Tribological characteristics of gold films deposited on metals by ion plating and vapor deposition
[NASA-TM-83572] 08 p1130 N84-17352
Ion plating of coatings made from high melting point metals
[BLL-RISLEY-TRANS-4879] 12 p1796 N84-21715
Ionized cluster beam deposition 12 p1840 N84-21995
Dry etching of metallization 12 p1840 N84-21997
Diamondlike flake composites
[NASA-CASE-LEW-13837-1] 13 p1953 N84-22695
Ion plating as a deposition method for tribological coatings
[VTT-13] 15 p2296 N84-24778
Status of plasma physics techniques for the deposition of tribological coatings 15 p2342 N84-25058
Corrosion behavior of ion plated films 17 p2821 N84-26777
Coatings for fuel economy or materials substitution 23 p3704 N84-33477
Torque properties of oscillating, dry-lubricated ball bearings in vacuum — spacecraft lubrication
[ESA-ESTL-57] 23 p3758 N84-33620

ION PROBES
Study of ion-solid interactions and material characterization with a new high-resolution scanning ion probe
[AD-A133896] 05 p0647 N84-14257
Study of field adsorption using pulsed-laser atom-probe field-ion microscopy
[DE84-002280] 05 p0687 N84-14513
Heavy ion beam probe for the study of plasma confinement in Nagoya bumpy torus
[IPPJ-689] 15 p2409 N84-25462

ION PROPULSION
Development of advanced inert-gas ion thrusters
[NASA-CR-168206] 01 p0029 N84-10180
Field emission electric propulsion: Additional propellants: Further tests on indium and alloys
[R664] 06 p0796 N84-15186
A dc to dc converter
[NASA-CASE-MFS-25430-1] 07 p0995 N84-16453
Discontinuous low thrust orbit transfer
[AD-A136908] 10 p1451 N84-19474
Test bed ion engine development
[NASA-CR-174623] 11 p1624 N84-20632
Field emission electric propulsion. Further testing of mercury as propellant
[IRA-83-P-6] 12 p1782 N84-21629
Ground correlation investigation of thruster spacecraft interactions to be measured on the IAPS flight test
[NASA-TM-83598] 14 p2118 N84-23691
Status and future application of the RF-propulsion systems RITA including interplanetary missions
[MBB-UR-646-83-O] 16 p2563 N84-28444
Analysis of electric propulsion orbit transfer vehicles versus IUS, CENTAUR-G, and a reuseable bipropellant system
[AD-A141173] 18 p2808 N84-27827

ION PUMPS
Thermal barriers: Their purpose and functioning
[DE83-017365] 03 p0449 N84-12954

ION RECOMBINATION
Research on diffusion and complex behavior of elements forming recombination centers in silicon by means of optical and electrical measurement techniques
[BMFT-FB-T-83-117] 02 p0300 N84-11971
Ion-ion recombination rate in the EMP source region
[AD-A131148] 03 p0360 N84-12339
Ionic reactions of atmospheric importance
[AD-A137166] 11 p1683 N84-20981

ION SCATTERING
Indirect processes in electron-ion scattering
[DE84-002381] 05 p0745 N84-14897
Ion-beam analysis and ion implantation in the study of diffusion
[DE84-000354] 06 p0924 N84-16008
Laser-induced neutralization and negative-ion formation in surface scattering
[AD-A135907] 09 p1322 N84-18641
Quantum mechanical studies of heavy ion scattering processes
[DE84-010124] 19 p3103 N84-29711

ION SELECTIVE ELECTRODES
Electrochemistry of chemically sensitive field effect transistors
[AD-A133984] 05 p0674 N84-14427

ION SOURCES
Ion-source and ion-accelerator development at Los Alamos
[DE83-014123] 01 p0146 N84-10959
Experimental study of dissociative attachment in optically-pumped lithium molecules
[AD-A131601] 02 p0289 N84-11884
High-sensitivity mass spectrometry with a tandem accelerator
[DE83-017914] 03 p0350 N84-12274
Magnetic trapping of intense ion beams
[DE83-017356] 03 p0437 N84-12866
Developing a 500-eV proton beam
[DE83-012781] 03 p0439 N84-12880
Applied-B ion diode experiments on PBFA 1
[DE83-017792] 03 p0447 N84-12942
Amplion hybrid diodes on hydramite and PBFA-1
[DE83-017824] 03 p0448 N84-12945
The Marshall Space Flight Center Low-Energy Ion Facility: A preliminary report
[NASA-TM-82559] 04 p0596 N84-13933
Calculation of ion charge-state distribution in ECR ion sources
[DE84-000517] 04 p0600 N84-13957
Analysis of mechanisms for anode plasma formation in ion diodes
[DE83-017793] 04 p0608 N84-14010
Overview of ion-diode research
[DE83-017791] 04 p0608 N84-14012
Hybrid ion diode theory and computations
[DE84-000102] 04 p0610 N84-14029
Numerical simulation and practical testing of a rotation-symmetric ion source for gas mass spectrometers
[DE84-002925] 07 p0970 N84-16288
Brighter H(-) source for the intense pulsed neutron source accelerator system
[DE84-003608] 07 p1072 N84-16965
Normalized emittance of SITEX negative ion source
[DE84-003285] 07 p1072 N84-16967
Concept for a volume-type tandem three-chamber negative hydrogen ion source
[DE84-003338] 07 p1073 N84-16971
Light ion beam fusion research at Sandia National Laboratories
[DE84-002109] 07 p1078 N84-17007
Ion source for a rocket payload
[AD-A135051] 08 p1121 N84-17289
Light ion fusion
[DE84-003767] 08 p1233 N84-18061
Ion beam assisted deposition of SiO2
[AD-A136247] 09 p1278 N84-18342
Design and fabrication of a surface conversion negative ion source and an 80 keV pre-accelerator
[DE84-006753] 13 p2045 N84-23269
Extraction of volume produced H(-) or D(-) ions from a sheet plasma 2
[IPPJ-666] 15 p2409 N84-25460
Industrialization of emitters modules, part 2
[SEP-TS/SE/BT/10457/83-PT-2] 16 p2475 N84-25866
Simulation of electromagnetic instabilities of high-voltage gaps
[DE84-010624] 18 p2812 N84-27851
Electron emitting filaments for electron discharge devices
[DE84-011098] 20 p3180 N84-30201
Method and source for producing a high concentration of positively charged molecular hydrogen or deuterium ions
[DE84-011030] 20 p3295 N84-30918
Dual arc penning ion source gas flow experiments
[DE84-011637] 21 p3495 N84-32151
Pulsed high-current source of negatively charged hydrogen ions
[DE84-012989] 21 p3498 N84-32158
Three chamber negative ion source
[DE84-014505] 23 p3823 N84-34243
Ion source with improved primary arc collimation
[DE84-014359] 23 p3823 N84-34244

ION SPECTROMETERS
U MASS SPECTROMETERS

ION STRIPPING
Wavelength measurement of X-ray lines from He-like ions 11 p1736 N84-21326

ION TEMPERATURE
Transport and radiative processes in the Io plasma torus 05 p0749 N84-14916
Atomic processes for plasma diagnostics in Tokamaks 11 p1734 N84-21311
Spectroscopy in heliotron E 11 p1735 N84-21320
Plasma Physics on auroral field lines: The formation of ion conic distributions
[NASA-CR-173683] 18 p2932 N84-28595
Investigation of laminar shocks
[DE84-010074] 20 p3242 N84-30582
Spot heating calculation for a heavy ion driven high temperature experiment
[DE84-013879] 22 p3653 N84-33159
Finite temperature effects on the evolution of ionospheric barium clouds in the presence of a conducting background ionosphere
[AD-A143592] 23 p3798 N84-34082
Plasma and magnetospheric research
[NASA-CR-171157] 23 p3827 N84-34275

ION TRAPS (INSTRUMENTATION)
Effects of reflections and trapped ions on the thermionic emitter sheath
[DE83-010233] 01 p0150 N84-10988
Steady-state hydrogen transport in solids exposed to fusion-reactor plasmas. Part 3: Applications of theory
[DE84-001646] 04 p0611 N84-14033
IONIC COLLISIONS
X-ray emission in heavy-ion collisions
[DE83-008776] 01 p0144 N84-10946
Transition flow ion transport via integral Boltzmann equation
[UTIAS-269] 03 p0432 N84-12828
Electron-ion collisions
[DE83-017211] 03 p0437 N84-12867
Cross sections for charge transfers of highly ionized ions in hydrogen atoms
[IPPJ-AM-30] 03 p0443 N84-12912
Electron capture and loss cross sections for collisions between heavy ions and hydrogen molecules, revised
[IPPJ-AM-28] 03 p0444 N84-12914
Ultra-relativistic heavy ions and cosmic rays
[DE83-015681] 03 p0476 N84-13134
Soliton bag: Dynamics and the quark plasma
[DE84-001103] 05 p0745 N84-14895
Progress in numerical calculations of ion-atom collisions
[DE84-003405] 08 p1229 N84-18033
Low energy ion-neutral collisions
[DE84-005392] 11 p1730 N84-21287
Interactions of fast atomic and molecular ions with matter
[DE84-006555] 15 p2405 N84-25438
Correlated charge changing interactions and K X-ray emission in ion-atom collisions
[DE84-008645] 18 p2930 N84-28580
Baryon distribution in relativistic heavy-ion collisions
[DE84-008509] 18 p2930 N84-28581
Ion reflection, gyration, and dissipation at supercritical shocks
[DE84-011353] 20 p3303 N84-30980
Electron capture cross sections in high energy He2+ + neutral Li collisions
[IPPJ-679] 21 p3500 N84-32182
IONIC CONDUCTIVITY
U ION CURRENTS
IONIC CRYSTALS
Fourth Europhysical Conference on Lattice Defects in Ionic Crystals
[AD-A132367] 04 p0612 N84-14039
Thermodynamics of condensed ionic systems
[DE84-001823] 05 p0755 N84-14950
Ion implantation in polymers
[AD-A134482] 07 p0979 N84-16342
Planar channeling radiation from relativistic positrons and electrons in LiF
[DE84-002800] 07 p1081 N84-17033
Crystal-field splittings of the Hund ground states of ndN ions in S4 symmetry: Theory and application to the Ga-3+ Gd-3Sc-2Ga-3O-12
[AD-A140623] 17 p2768 N84-27574
IONIC DIFFUSION
Ambipolarity and transport with resonant ion diffusion in EBT
[DE84-000333] 04 p0606 N84-14000
Transport of a multiple-ion species plasma in the collisionless regime in a bumpy torus
[IPPJ-657] 11 p1734 N84-21307
Ion reflection, gyration, and dissipation at supercritical shocks
[DE84-011353] 20 p3303 N84-30980
IONIC MOBILITY
The effects of space charge on ionic mobility measurements in cylindrical geometries
06 p0922 N84-15993
Energetics of oxygen ion transport in fluorite, perovskite and other oxide structures 11 p1740 N84-21354
Transport properties of fluorite oxides
11 p1740 N84-21355
Apparatus for the determination of ion drift in MIS structures
[FOA-C-30360-E1] 23 p3831 N84-34301
IONIC PROPELLANTS
U ION ENGINES
IONIC REACTIONS
Charge transfer cross-sections for N V and S III ions interacting with hydrogen atoms in astrophysical plasmas 02 p0307 N84-12014
Investigation of the dynamics and threshold behavior of endothermic negative ion-neutral reactions
[DE84-001369] 04 p0602 N84-13975
Atomic hydrogen beam probing with spectroscopic technique 11 p1736 N84-21324
Laboratory studies of atomic collision processes
[AD-A137992] 12 p1901 N84-22382
Ion exchange selectivity of Nafion films on electrode surfaces
[AD-A140824] 17 p2620 N84-26764
Ionic reactions in the Earth's upper atmosphere
[AD-A141185] 18 p2880 N84-28283
Solvent, ligand, and ionic charge effects on reaction entropies for simple transition-metal redox couples
[AD-A142374] 20 p3147 N84-29984
Reactions of negative ions
[AD-A143793] 23 p3714 N84-33541
IONIC WAVES
Study of the initial stages of anodic oxidation of polycrystalline silver in KOH solutions
[AD-A138381] 12 p1793 N84-21694
Ion waves generated by streaming particles
[KGI-PREPRINT-065] 18 p2935 N84-28612
IONIZATION
NT ATMOSPHERIC IONIZATION
NT AURORAL IONIZATION
NT AUTOIONIZATION
NT GAS IONIZATION
NT PHOTOIONIZATION
NT SURFACE IONIZATION
On the CO2 laser generated channel conductivity and electron beam ionization of ammonia
[AD-A131591] 02 p0225 N84-11478
Evaluation of a draft standard on performance specifications for health physics instrumentation
[DE83-016169] 02 p0266 N84-11749
Selective laser ionization for mass-spectral isotopic analysis
[DE83-017303] 03 p0381 N84-12483
Using inner-shell X-rays as an ion-beam diagnostic
[DE83-017784] 03 p0436 N84-12857
Ion stopping in heated targets
[DE83-017800] 03 p0447 N84-12941
Mixed solar wind originating from coronal regions of different temperatures 03 p0473 N84-13114
Interpreting the solar wind ionization state
03 p0473 N84-13115
Electron-drift velocity and ionization and attachment coefficients in gases/mixtures for diffuse-discharge opening switches
[DE83-017206] 04 p0609 N84-14017
Ionization equilibrium in isolated H 2 regions
04 p0619 N84-14086
Comparison of autoionization and photoelectron spectra of CO
[AD-A133902] 05 p0647 N84-14256
Process for isotope separation
[DE84-001983] 06 p0844 N84-15507
Simultaneous electron capture and excitation in ion-atom collisions
[DE83-005799] 06 p0910 N84-15907
Determination of ionization rates in the principal crystallographic directions in silicon
[AD-A133513] 06 p0923 N84-15999
Low-ionization emission regions in the nuclei of spiral galaxies 06 p0939 N84-16100
Resonance ionization mass spectroscopy at Los Alamos National Laboratory
[DE84-001705] 07 p0972 N84-16297
The ionization structure of planetary nebulae. 4: NGC 6853
[NASA-CR-173240] 07 p1090 N84-17086
Spectral variability in early-type binary X-ray systems
[NASA-TM-86060] 09 p1407 N84-19195
Sheath ionization model of beam emissions from large spacecrafts
[AD-A137181] 10 p1448 N84-19463
Glow discharge as an atomization and ionization device
[DE84-005253] 11 p1629 N84-20662
Atomic processes for plasma diagnostics in Tokamaks
11 p1734 N84-21311
Numerical analyses for scrape-off plasmas in FER divertor chamber 11 p1734 N84-21313
Specifics of structure formation in nitrides synthesized by laser action on metals 12 p1784 N84-21640
Chemical ionization mass spectrometry: New methodology
[AD-A138037] 12 p1791 N84-21678
Properties of polyurethane anionomers: Ionization via bimolecular nucleophilic displacement of the urethane hydrogen
[AD-A137988] 12 p1801 N84-21742
Three-dimensional nonequilibrium viscous shock-layer flows over complex reentry vehicles
13 p1927 N84-22543
Analysis of spacecraft charging, particle beams and geophysical data bases
[AD-A138632] 13 p1940 N84-22616
Electron energy deposition in the middle atmosphere
[AD-A139122] 14 p2175 N84-24032
Ionization of polarized hydrogen atoms
[DE84-007378] 14 p2223 N84-24340
Study of VUV generation by coherent resonant frequency mixing in metal vapors
[AD-A140800] 17 p2683 N84-26989
Design considerations for MST radar antennas
17 p2693 N84-27153
Data needs for the track structure of alpha particles and electrons in water
[DE84-009154] 19 p3103 N84-29710
A numerical study of artificial electron aurora experiments
[ISAS-611] 20 p3240 N84-30568
Multiphoton ionization spectroscopy and photochemistry of transient species
[DE84-010424] 20 p3295 N84-30922
Conceptual basis of resonance ionization spectroscopy
[DE84-011662] 21 p3360 N84-31318
Transport properties and dielectric strengths of gas mixtures for use in diffuse discharge opening switches
[DE84-011444] 21 p3394 N84-31536
Highly sensitive high resolution Raman spectroscopy using resonant ionization methods
[DE84-012240] 22 p3548 N84-32460
Length distribution of chords through a rectangular volume
[AD-A143302] 22 p3577 N84-32654
Forecasting of high voltage insulation performance: Testing of recommended potting materials and of capacitors
[NASA-TM-85536] 22 p3581 N84-32681
The ionization structure of planetary nebulae V NGC 3242
[NASA-CR-173914] 22 p3679 N84-33322
Atomic resonance and scattering
22 p3681 N84-33339
Multiphoton ionization mass and photoelectron spectroscopy
[AD-A143823] 23 p3714 N84-33542
A proposed technique for creation and detection of hot electron ionization and gain effects in a laser-produced tin plasma
[AD-A144025] 23 p3828 N84-34281
Assessment of plasma transport and convection at high latitudes 23 p3837 N84-34343
Measurement and evaluation of arc characteristics (Ar,N2)
[NASA-TM-77507] 24 p3965 N84-35106
IONIZATION CHAMBERS
NT BUBBLE CHAMBERS
NT PROPORTIONAL COUNTERS
NT SPARK CHAMBERS
Recommended values of the humidity correction factor k sub h for determining exposure in an X-ray beam with free-air chambers
[JEN-542] 04 p0593 N84-13915
Modulated voltage metastable ionization detector
[NASA-CASE-ARC-11503-1] 13 p2019 N84-23093
The characteristics of the cylindrical drift chambers of the detector CELLO: Investigation with muons from high altitude cosmic rays
[MPI-PAE/EXP.E1.125] 19 p3028 N84-29205
The study of efficient low-power diffraction designs
[NASA-CR-171142] 21 p3405 N84-31598
High energy physics research at Texas Agriculture and Mining University — magnetic monopoles in cosmic rays and hadron calorimeter design
[DE84-011616] 22 p3655 N84-33167
IONIZATION COUNTERS
U IONIZATION CHAMBERS
U RADIATION COUNTERS
IONIZATION CROSS SECTIONS
Atomic photoelectron-spectroscopy studies using synchrotron radiation
[DE83-011740] 01 p0037 N84-10235
Electron capture and loss cross sections for collisions between heavy ions and hydrogen molecules, revised
[IPPJ-AM-28] 03 p0444 N84-12914
Data analysis and theoretical studies for atmospheric Explorer C, D and E
[NASA-CR-175121] 06 p0878 N84-15711
Laser-induced electron-phonon processes on metal surfaces
[AD-A136435] 09 p1321 N84-18632
Evaluation of excitation cross sections by plasma spectroscopy 11 p1735 N84-21315
A comment on atomic processes relevant to alpha particle diagnostics 11 p1736 N84-21323
Atomic hydrogen beam probing with spectroscopic technique 11 p1736 N84-21324
Charge exchange and related processes
11 p1736 N84-21327
Measurements of ionization balance parameters in atomic ions
[DE84-007884] 14 p2222 N84-24337
IONIZATION GAGES
NT BAYARD-ALPERT IONIZATION GAGES

IONIZATION POTENTIALS
Research on diffusion and complex behavior of elements forming recombination centers in silicon by means of optical and electrical measurement techniques
[BMFT-FB-T-83-117] 02 p0300 N84-11971
Predicting the base phase in the crystallization of eutectic alloys
[BLL-M-35347-(5828.4)] 04 p0497 N84-13262
Oxide bond energies for the calibration of matrix effects in secondary ion mass spectrometry
[AD-A139633] 15 p2413 N84-25483
Elemental advances of ultraheavy cosmic rays
[NASA-CR-173650] 17 p2781 N84-27658
Gas-liquid correlation of ionization energies
[AD-A141255] 18 p2930 N84-28578

IONIZED GASES
NT ARGON PLASMA
NT CATIONS
NT CESIUM PLASMA
NT CHARGED PARTICLES
NT COLD PLASMAS
NT COLLISIONAL PLASMAS
NT COLLISIONLESS PLASMAS
NT CONDUCTION ELECTRONS
NT COSMIC PLASMA
NT DENSE PLASMAS
NT ELECTRON PLASMA
NT HEAVY NUCLEI
NT HELIUM PLASMA
NT HIGH TEMPERATURE PLASMAS
NT HYPERNUCLEI
NT LASER PLASMAS
NT METALLIC PLASMAS
NT NUCLEI (NUCLEAR PHYSICS)
NT ODD-EVEN NUCLEI
NT PLASMA CLOUDS
NT PLASMA JETS
NT PLASMA LAYERS
NT PLASMA SHEATHS
NT PLASMA SLABS
NT PLASMAS (PHYSICS)
NT RELATIVISTIC PLASMAS
NT ROTATING PLASMAS
NT SOLAR WIND
NT STELLAR WINDS
NT STRONGLY COUPLED PLASMAS
NT THERMAL PLASMAS
NT TOROIDAL PLASMAS
Plasma current and conductivity effects on hose instability
[AD-A137549] 11 p1729 N84-21282
The beam-density effect on energy loss of a relativistic charged particle beam
[AD-A139051] 13 p2041 N84-23241
Far-IR spectroscopy of the galactic center: Neutral and ionized gas in the central 10 pc of the galaxy
[NASA-CR-166510] 13 p2070 N84-23411
Fundamental processes in partially ionized plasmas
[AD-A140549] 16 p2558 N84-26414
The gas-heating phase in electrical breakdown
[AD-A141961] 20 p3302 N84-30967

IONIZED PLASMAS
U PLASMAS (PHYSICS)

IONIZING RADIATION
NT ALPHA PARTICLES
NT BETA PARTICLES
NT COSMIC RAY SHOWERS
NT COSMIC RAYS
NT COSMIC X RAYS
NT EXTREME ULTRAVIOLET RADIATION
NT FAR ULTRAVIOLET RADIATION
NT GALACTIC COSMIC RAYS
NT GAMMA RAY BURSTS
NT GAMMA RAYS
NT LYMAN ALPHA RADIATION
NT PRIMARY COSMIC RAYS
NT SOLAR COSMIC RAYS
NT SOLAR X-RAYS
NT ULTRAVIOLET RADIATION
NT X RAYS
Combined effects of ionizing radiation and anticholinesterase exposure on rodent motor performance
[AD-A131847] 03 p0414 N84-12707
Duration of memory loss due to electron beam exposure
[AD-A132941] 06 p0886 N84-15760
Change in immunobiological reactivity under the effect of combined exposure to microwaves, infrasound and gamma radiation 07 p1043 N84-16764
Influence of variable magnetic field on bactericidal effect of ionizing radiation 07 p1043 N84-16765
Effects of high energy radiation on the mechanical properties of epoxy graphite fiber reinforced composites
[NASA-CR-173293] 08 p1122 N84-17292
Nuclear explosion effects on telecommunication, etc. (effect of EMP and of ionizing radiation on electronics and optical electronics
[FOA-C-30302-A3] 08 p1146 N84-17458
Electric field distortion in electro-optical devices subjected to ionizing radiation
[AD-A136573] 09 p1306 N84-18549
Airborne penetration of radioactive clouds
[AD-A135848] 09 p1361 N84-18894
Initial human response to nuclear radiation
[AD-A137543] 11 p1694 N84-21054
A study of the mechanics of radiation damage in fiber optical waveguides
[AD-A139590] 14 p2225 N84-24352
LSI/VLSI (Large Scale Integration/Very Large Scale Integration) ion implanted GaAs (Gallium Arsenide) IC processing
[AD-A139676] 15 p2328 N84-24979
LSI/VLSI (Large Scale Integration/Very Large Scale Integration) ion implanted GaAs (Gallium Arsenide) IC processing. Appendix A: Feasibility analysis of Gallium-Arsenide mask programmable functions and logic arrays for high performance communications systems
[AD-A139677] 15 p2328 N84-24980
LSI/VLSI (Large Scale Integration/Very Large Scale Integration) ion implanted GaAs (Gallium Arsenide) IC processing. Appendix B: Two-dimensional modeling of GaAs MESFET devices for integrated high-speed logic circuits
[AD-A139678] 15 p2328 N84-24981
Low power radiation hard GaAs RAM
[AD-A139930] 15 p2329 N84-24986
Some aspects of dosimetry in studies of biological effects of nonionizing electromagnetic radiation 15 p2375 N84-25248
Optical absorption and thermoluminescence in MgO:Ni and MgO:Li irradiated at room temperature
[JEN-556] 16 p2561 N84-26427
Polymers which are resistant to ionizing radiation for paints used in light water nuclear power stations
[BLL-RISLEY-TR-4907-(9091.9F)] 17 p2626 N84-26801
Biophysics space research 17 p2745 N84-27426
Standardization of terminology in field of ionizing radiations and their measurements 18 p2823 N84-27925
Motor performance in irradiated rats as a function of radiation source, dose, and time since exposure
[AD-A141209] 18 p2894 N84-28363
The interactive effects of morphine and ionizing radiation on the latency of tail-withdrawal from warm water in the rat
[AD-P003251] 18 p2904 N84-28418
Quaternary naltrexone reverses radiogenic and morphine-induced locomotor hyperactivity
[AD-P003252] 18 p2905 N84-28419
The Defense Nuclear Agency intermediate dose program: An overview (effects of total-body irradiation on the performance of personnel in Army combat crews)
[AD-P003253] 18 p2905 N84-28420
Estimated effects of ionizing radiation upon military task performance: Individual combat crewmember assessment
[AD-P003255] 18 p2905 N84-28422
Effects of ionizing radiation and restraint stress on activity, avoidance conditioning, and stomach ulcers in albino rats
[AD-A141515] 19 p2984 N84-28911
Action of penetrating radiation on radio parts
[AD-A142107] 19 p3007 N84-29059
Instrumentation for nonionizing radiation measurement
[PB84-180603] 20 p3191 N84-30271
Ionizing emissions and electronics
[AD-A142065] 21 p3383 N84-31466
Length distribution of chords through a rectangular volume
[AD-A143302] 22 p3577 N84-32654
Roles of ionizing radiation in cell transformation
[DE84-013397] 22 p3629 N84-32995
Effects of transient ionizing radiation in various generations of TTL-circuits in the 54/74 series — nuclear explosion effect
[FOA-C-30365-A3] 23 p3744 N84-33736
Influence of natural exposure in space on physical-mechanical properties of carbon reinforced plastic 24 p3872 N84-34536

IONOGRAMS
Automatic electron density profiles from digital ionograms 06 p0869 N84-15659
On the utilization of ionospheric diagnostics in the single-site location of HF emitters 06 p0870 N84-15661
Automatic real time ionogram scaler with true height analysis - artist
[AD-A135174] 08 p1187 N84-17732
Temporal and latitudinal distribution of ionosphere irregularity in Brazil, data analysis of scintillations in very high frequencies and ionograms
[INPE-3179-TDL/172] 23 p3796 N84-34081

IONOSONDES
Ionospheric research using digital ionosondes
[AD-A140012] 15 p2368 N84-25210
A high frequency radio technique for measuring plasma drifts in the ionosphere
[AD-A140509] 18 p2526 N84-26219
Tabulations of ozonesonde data, 1963 - 1980
[NASA-CR-174631] 17 p2733 N84-27375

IONOSPHERE
NT D REGION
NT E REGION
NT F REGION
NT F 2 REGION
NT LOWER IONOSPHERE
NT SPORADIC E LAYER
Results of PLACES data analysis
[AD-A130933] 01 p0066 N84-10432
Measured ionospheric Doppler spreading of HF ground backscatter
[PB83-220764] 01 p0068 N84-10446
Small scale structure in the Earth's ionosphere: Theory and numerical simulation
[AD-A130462] 01 p0105 N84-10880
Forbidden line radiation cooling of high altitude plasmas
[AD-A131266] 01 p0149 N84-10979
Vertical mapping of quasistatic and large scale ionospheric electric fields in low latitudes
[INPE-2838-PRE/385] 02 p0247 N84-11618
Study on the applicability of the international ionospheric model IRI 79 for obtaining electron density profiles
[INPE-2617-PRE/372] 02 p0247 N84-11619
Modeling of modification experiments involving neutral-gas release
[DE83-012785] 02 p0250 N84-11634
Creating unstable velocity-space distributions with barium injections
[DE83-012783] 02 p0250 N84-11635
Techniques for locating a remote HF transmitter from single-site measurements
[AD-A132014] 03 p0360 N84-12342
Activities report on ionospheric observation
[UIO-AR-83-05] 03 p0409 N84-12674
Beam plasma turbulence study
[AD-A131946] 03 p0444 N84-12917
Observation of waves induced by an artificial ion beam in the ionosphere 05 p0635 N84-14176
On the stimulated precipitation of electrons and the mechanism of wave generation in the whistler range in the ARAKS experiment 05 p0637 N84-14190
Plasma processes in the region of electron beam injection from a high altitude payload 05 p0637 N84-14194
Plasma jet effects on the ionospheric plasma 05 p0639 N84-14202
Plasma composition and structure characterization of an ionospheric barium cloud 05 p0640 N84-14213
Electrodynamic tether experiments in the ionosphere 05 p0642 N84-14222
Waves in Space Plasmas (WISP): A space plasma lab active experiment 05 p0642 N84-14223
The conversion of off-vertical observations of total electron content into equivalent vertical-incidence values
[AD-A132824] 05 p0703 N84-14613
The turbulent transfer of ions to the Earth's surface 05 p0706 N84-14630
Data analysis and theoretical studies for atmospheric Explorer C, D and E
[NASA-CR-175121] 06 p0878 N84-15711
Power line radiation in the magnetosphere 07 p0966 N84-16387
Interaction of the space shuttle orbiter with the ionospheric plasma 08 p1117 N84-17265
Electrodynamic interactions between a tethered satellite system and the ionosphere 08 p1119 N84-17279
Auroral ion acceleration
[PR-783] 08 p1184 N84-17715
Review of radio-frequency, nonlinear effects on the ionosphere
[DE84-003832] 08 p1188 N84-17739
Upper atmosphere research at Rhodes University since 1940: A review 09 p1344 N84-18779
Prediction of total electron content using the International Reference Ionosphere
[AD-A137136] 10 p1536 N84-20066
Implications of the 1100 UT 22 March, 1979 CDAW 6 substorm event for the role of magnetic reconnection in the geomagnetic tail
[DE84-004335] 10 p1537 N84-20071
Nonlinear theory of the E x B instability with an inhomogeneous electric field
[AD-A137132] 10 p1569 N84-20277

Research continues with Intercosmos-Bolgarlya-1300 satellite 12 p1775 N84-21577
Plasma bubble irregularity occurrence and zonal velocities under quiet and disturbed conditions, from polarimeter observations
[INPE-3023-PRE/461] 12 p1846 N84-22036
Comparison of a simplified version of TRACKER with an analytic solution to a model ray tracing problem
[DE84-007091] 12 p1848 N84-22044
Rayleigh-Taylor instability in the presence of a stratified shear layer
[AD-A136544] 13 p2011 N84-23043
A middle latitude ionospheric model
[CRPE-NT-114] 13 p2012 N84-23049
Active ionospheric generation on ELF/VLF waves
[AD-A139317] 14 p2176 N84-24034
Numerical modeling of ionospheric parameters from global IMS (International Magnetospheric Study) magnetometer data for the CDAW-6 intervals
[PB84-151307] 14 p2177 N84-24041
Computer program for treating and compiling ionospheric data
[FOA-C-30354-E] 15 p2391 N84-25346
An overview of charging of large space structures in polar orbit
[AD-P002100] 16 p2521 N84-26186
Ionospheric characteristics: A review
[AD-P002101] 16 p2521 N84-26187
Floating potentials and the hot plasma generated by an electron-beam-emitting rocket in the ionosphere
[AD-P002107] 16 p2522 N84-26193
Environmental interactions of polar orbiting satellites
[AD-P002110] 16 p2523 N84-26196
Interactions between a large body and its environment in a low polar orbit
[AD-P002111] 16 p2523 N84-26197
Mechanisms that limit potentials on ionospheric satellites
[AD-P002118] 16 p2524 N84-26204
A laboratory investigation of the high-frequency Farley-Buneman instability
[NASA-CR-173435] 16 p2525 N84-26215
A high frequency radio technique for measuring plasma drifts in the ionosphere
[AD-A140509] 16 p2526 N84-26219
Energetic ion beam-plasma interactions
[AD-A140173] 16 p2558 N84-26412
Radar interferometer measurements
17 p2688 N84-27114
Plasma processes caused by an electron beam injected from a high altitude rocket probe. Part 1: Neutralization processes
[IWF-8302] 17 p2728 N84-27363
Plasma processes caused by an electron beam injected from a high altitude rocket probe. Part 2: Studies of beam-plasma discharge
[IWF-8303] 17 p2728 N84-27364
Ionospheric observation activities report
[UIO-SR-84-01] 17 p2728 N84-27367
Spectrum of phase fluctuations during probing of ionosphere 18 p2822 N84-27916
Well-developed convective cloud cover as source of internal waves 18 p2865 N84-28187
Space charge around conductors at high potential magnetoplasma
[IFSI-84-4] 18 p2934 N84-28608
Overview of ultraviolet remote sensing of the ionosphere
[AD-A141533] 19 p3041 N84-29294
Study of e-beam propagation in the ionosphere and magnetosphere
[AD-A142206] 19 p3054 N84-29360
Evolution of structure in the PLACES barium clouds
[DE84-010696] 20 p3242 N84-30583
A rocket-borne Langmuir probe for in-situ measurement of ionospheric plasma
[INPE-3206-PRE/564] 21 p3349 N84-31244
Comparison between density profiles obtained at Cachoeira Paulista, Brazil, and deduced from IRI-79 model
[INPE-3136-PRE/527] 21 p3443 N84-31843
High frequency radar software reference manual for product one
[PB84-194865] 22 p3578 N84-32665
Experiments on interaction of keV particle beams with the ionosphere
[AD-A143277] 22 p3623 N84-32957
Calibration of precise satellite altimetry for the ionosphere and wet troposphere — TOPEX
23 p3778 N84-33955
Solutions of nonlinear equations of magneto-ionic theory
[ISSN-0208-5658] 23 p3794 N84-34059
Low and high altitude ionospheric modification experiments 23 p3796 N84-34072
Study of the system of middle atmosphere-ionosphere using remote-sensing data
[NASA-TM-77764] 23 p3797 N84-34074
Finite temperature effects on the evolution of ionospheric barium clouds in the presence of a conducting background ionosphere
[AD-A143592] 23 p3798 N84-34082
Plasma and magnetospheric research
[NASA-CR-171157] 23 p3827 N84-34275
Solar Terrestrial Physics: Present and Future
[NASA-RP-1120] 23 p3836 N84-34332
High latitude ionospheric structure
23 p3837 N84-34344
Some preliminary results of ionospheric slab thickness observations at Lunping 24 p3956 N84-35045

IONOSPHERIC ABSORPTION

U ELECTROMAGNETIC ABSORPTION
U IONOSPHERIC PROPAGATION

IONOSPHERIC COMPOSITION

A study of the charged particle calibration requirements for the Deep Space Network 04 p0519 N84-13414
Origin of refractive index fluctuations in the mesosphere as opposed to the stratosphere and troposphere
17 p2686 N84-27101

IONOSPHERIC CONDUCTIVITY

High latitude field aligned currents
05 p0702 N84-14605
Models of the ionospheric environment
[AD-P002121] 16 p2524 N84-26207

IONOSPHERIC CURRENTS

NT AURORAL ELECTROJETS
NT ELECTROJETS
NT EQUATORIAL ELECTROJET
High latitude field aligned currents
05 p0702 N84-14605
Calm ionospheric dynamo. Part 1: Simulations carried out in 1981
[CRPE-NT-112-PT-1] 13 p2012 N84-23055
Numerical modeling of ionospheric parameters from global IMS (International Magnetospheric Study) magnetometer data for the CDAW-6 intervals
[PB84-151307] 14 p2177 N84-24041
Long wavelength limit of the current convective instability
[AD-A139172] 14 p2228 N84-24358
Models of the ionospheric environment
[AD-P002121] 16 p2524 N84-26207
Distributions of aurora and ionospheric currents observed simultaneously on a global scale
[AD-A140615] 17 p2727 N84-27360

IONOSPHERIC DISTURBANCES

NT IONOSPHERIC STORMS
NT SUDDEN IONOSPHERIC DISTURBANCES
Long wavelength limit of the E X B instability
[AD-A129812] 01 p0105 N84-10681
Activities report on ionospheric observation
[UIO-AR-83-05] 03 p0409 N84-12674
The effects of naturally-occurring propagation disturbances on discrete focused arrays
[AD-A132645] 05 p0670 N84-14404
Study to synthesize and interpret data from several satellites and ground magnetometers
[AD-A132670] 05 p0703 N84-14616
Propagation effects in satellite-borne synthetic aperture radars 06 p0867 N84-15650
The Canadian programme of experimental measurement of sea-state characteristics by sky-wave radar
06 p0869 N84-15657
F-region variability and HF-propagation
06 p0869 N84-15658
Ohmic heating of the polar f-region by HF (High Frequency) pulse
[AD-A135946] 09 p1345 N84-18789
Unified theory of the power spectrum of long wavelength ionospheric electron density irregularities
[AD-A137356] 10 p1537 N84-20068
Chatanika radar and S3-2 measurements of auroral-zone electrodynamics in the midnight sector
[AD-A137947] 11 p1644 N84-20748
Long wavelength limit of interchange instabilities
[AD-A138943] 13 p2011 N84-23047
Active ionospheric generation on ELF/VLF waves
[AD-A139317] 14 p2176 N84-24034
Handbook - H8: Description of services
15 p2367 N84-25202
A laboratory investigation of the high-frequency Farley-Buneman instability
[NASA-CR-173435] 16 p2525 N84-26215
Ionospheric effect of partial solar eclipse of 31 July 1981 17 p2704 N84-27224
A statistical channel model for adaptive HF communications via a severely disturbed ionosphere
[AD-A141237] 18 p2829 N84-27960
Mass spectrometers for studying the ionic and neutral composition of the upper layers of the atmosphere
[AD-A141011] 18 p2879 N84-28282
On the linear stability of two-dimensional barium clouds. 1: The inviscid case
[AD-A141284] 18 p2880 N84-28285
Ion kinetics, minor neutral and excited components in D-region with high level of ionization
19 p2973 N84-28848
HF omnidirectional spectral CW auroral radar (HF-OSCAR) at very high latitude. Part 1: Technique
[DMI-GEOPHYS-PAPERS-R-67]
19 p3010 N84-29079
Quasi-steady state multi-plasma cloud configuration in the ionosphere
[AD-A141532] 19 p3107 N84-29739
High-latitude ionospheric irregularities
[AD-A142648] 20 p3241 N84-30573
Intensity of radiowave scattering on anisotropic irregularities with various positions of scattering volume about caustic zone 22 p3566 N84-32585

IONOSPHERIC DRIFT

Evidence of East-West structure in large-scale F-region plasma enhancements in the auroral zone
[AD-A131263] 01 p0106 N84-10689
Studies of ions in a drift field: Laser diagnostics of excited states and measurements of thermochemical properties at equilibrium
[DE84-000363] 04 p0541 N84-13562
Project Porcupine: The MF mutual impedance probe experiment. Part 1: Flight F2 (March 1977)
[CRPE-NT-93-VOL-1] 05 p0705 N84-14624
Project Porcupine: The MF mutual impedance probe experiment. Part 2: Flights F3 and F4 (March 1979)
[CRPE-NT-94-VOL-2] 05 p0705 N84-14625
Phenomenology of structured plasma in the ionosphere
[AD-A136396] 09 p1345 N84-18784
A high frequency radio technique for measuring plasma drifts in the ionosphere
[AD-A140509] 16 p2526 N84-26219

IONOSPHERIC ELECTRON DENSITY

Behavior of the total electron content in the ionosphere in Sao Jose dos Campos during magnetic storms in 1980
[INPE-2810-PRE/368] 02 p0248 N84-11623
A study of the charged particle calibration requirements for the Deep Space Network 04 p0519 N84-13414
Project Waterhole III — ionospheric perturbation experiments 05 p0640 N84-14210
Ionospheric factors affecting the performance of HF sky-wave sea-state radars 06 p0868 N84-15656
Automatic electron density profiles from digital ionograms 06 p0869 N84-15659
Saturn's ionosphere: Inferred electron densities
[NASA-TM-85121] 07 p1092 N84-17102
Optical, radio and computer simulation studies of the Brazil ionospheric modification experiment of 8 September 1982
[AD-A135143] 08 p1186 N84-17731
Field-aligned electron density irregularities near 500 km. Equator to polar cap topside sounder Z mode observations
[NASA-TM-86091] 18 p2879 N84-28277
Modelling of ionospheric irregularities and total electron content
[AD-A141236] 18 p2880 N84-28284
Ion kinetics, minor neutral and excited components in D-region with high level of ionization
19 p2973 N84-28848
A rocket-borne Langmuir probe for in-situ measurement of ionospheric plasma
[INPE-3206-PRE/564] 21 p3349 N84-31244

IONOSPHERIC HEATING

Activities report on ionospheric observation
[UIO-AR-83-05] 03 p0409 N84-12674
Active experiments in space — conferences
[ESA-SP-195] 05 p0634 N84-14172
Review of ionospheric VLF and ELF generation
05 p0634 N84-14174
Summary of ionospheric heating experiments at Tromsoe (Norway) 05 p0635 N84-14176
Observations of stimulated electromagnetic emissions during ionospheric heating experiments
05 p0635 N84-14179
The HF-enhanced plasma line
05 p0635 N84-14180
Plasma particle acceleration due to emission of ground-based and onboard transmitters
05 p0636 N84-14181
Preliminary results from the Heating Rocket (HERO) project: In situ measurements of ionospheric modifications using sounding rockets 05 p0636 N84-14183
Ionospheric irregularities and geomagnetic field fluctuations due to ionospheric heating
05 p0636 N84-14184
The electron and ion spectra of radar returns from the critical height during ionospheric heating experiments
05 p0636 N84-14185

Ionospheric modification by electron beams. Results from electron accelerator experiments on rockets in Norway 05 p0637 N84-14188

Plasma heating generated by a rocket-borne electron accelerator 05 p0637 N84-14189

Modeling of modification experiments involving neutral gas release — from space shuttles 05 p0640 N84-14209

The temporal evolution of short scale striations in the heated ionosphere 05 p0706 N84-14631

Thermal electron heating rate: A derivation [NASA-TM-85124] 06 p0914 N84-15941

Airglow morphology during an ionospheric heating experiment at Platteville, Colorado [AD-A137869] 11 p1682 N84-20976

A laboratory investigation of the high-frequency Farley-Buneman instability [NASA-CR-173435] 16 p2525 N84-26215

Soliton collapse during ionospheric heating [DE84-009994] 20 p3241 N84-30576

First observations of 140 MHz plasma line backscatter during healthy experiments at Tromsoe [UIO-SR-84-02] 20 p3243 N84-30588

IONOSPHERIC ION DENSITY

A study of the atmosphere and ionosphere using satellite observations of 300-1400 Ang airglow [NASA-CR-173146] 07 p1028 N84-16663

Ion kinetics, minor neutral and excited components in D-region with high level of ionization 19 p2973 N84-28848

IONOSPHERIC NOISE

NT WHISTLERS

Field-aligned electron density irregularities near 500 km. Equator to polar cap topside sounder Z mode observations [NASA-TM-86091] 18 p2879 N84-28277

IONOSPHERIC PROPAGATION

High-latitude and equatorial research support for predicting high-altitude nuclear effects [AD-A131431] 02 p0249 N84-11630

Guidance of electromagnetic waves in the ionosphere and magnetosphere [IFSI-82-15] 03 p0363 N84-12361

Review of ionospheric VLF and ELF generation 05 p0634 N84-14174

Summary of ionospheric heating experiments at Tromsoe (Norway) 05 p0635 N84-14178

Ionospheric propagation in the L. F. broadcasting band [BBC-RD-1983/15] 05 p0665 N84-14375

ELF/VLF (Extremely Low Frequency/Very Low Frequency) long path pulse program for antennas of arbitrary elevation and orientation [AD-A133876] 05 p0667 N84-14388

Theoretical predictions for VLF radio propagation [AD-A133168] 06 p0823 N84-15364

Propagation effects in satellite-borne synthetic aperture radars 06 p0867 N84-15650

Ionospheric factors affecting the performance of HF sky-wave sea-state radars 06 p0868 N84-15656

The Canadian programme of experimental measurement of sea-state characteristics by sky-wave radar 06 p0869 N84-15657

F-region variability and HF-propagation 06 p0869 N84-15658

Automatic electron density profiles from digital ionograms 06 p0869 N84-15659

Determination of propagation limitations at HF by real-time update of a computer model from oblique sounder data 06 p0869 N84-15660

On the utilization of ionospheric diagnostics in the single-site location of HF emitters 06 p0870 N84-15661

Control unit for frequency shift for short wave radio transmission [FOA-C-30269-E2] 07 p0994 N84-16447

Estimating the performance of telecommunication systems using the ionospheric transmission channel. Ionospheric communications analysis and prediction program user's manual [PB84-111210] 08 p1147 N84-17468

Wireless communication systems [AD-A135830] 09 p1300 N84-18496

Propagation of ELF (extremely low frequencies) waves in the spherical Earth-ionosphere waveguide with transverse and longitudinal variation of properties [AD-A135890] 09 p1300 N84-18502

Equatorial scintillation of satellite signals and some drift characteristics of the scintillation [AD-A137555] 11 p1642 N84-20738

Real-time update of 2 H. F. (High Frequency) channel evaluation models by oblique sounding [AD-A137556] 11 p1643 N84-20739

HILAT: A pre-launch overview [AD-A137266] 11 p1683 N84-20983

The effects of aperture antennas after signal propagation through anisotropic ionized media [AD-A138286] 12 p1807 N84-21781

Propagation effects in satellite-based synthetic aperture radars [AD-A138681] 13 p1983 N84-22873

Geodetic use of GEOSAT-A [AD-A137993] 13 p2011 N84-23048

Correcting radio astronomy interferometry observations for ionospheric refraction 15 p2324 N84-24957

Handbook - H8: Description of services 15 p2367 N84-25202

A high frequency radio technique for measuring plasma drifts in the ionosphere [AD-A140509] 16 p2526 N84-26219

Energetic ion beam-plasma interactions [AD-A140173] 16 p2558 N84-26412

A statistical channel model for adaptive HF communications via a severely disturbed ionosphere [AD-A141237] 18 p2829 N84-27960

Modelling of ionospheric irregularities and total electron content [AD-A141236] 18 p2880 N84-28284

Analysis and programming for electromagnetic applications [AD-A142313] 19 p3009 N84-29071

High-latitude ionospheric irregularities [AD-A142648] 20 p3241 N84-30573

Intensity of radiowave scattering on anisotropic irregularities with various positions of scattering volume about caustic zone 22 p3566 N84-32585

HF prediction using adiabatic invariant theory [AD-A143239] 22 p3576 N84-32652

Problems of diffraction and propagation of waves (selected articles) [AD-A143912] 23 p3731 N84-33650

Meteor showers effects in the low terrestrial ionosphere detected at VLF ionosonde and long distance propagation paths [INPE-3242-PRE/588] 24 p3990 N84-35246

IONOSPHERIC REFLECTION

U IONOSPHERIC PROPAGATION

IONOSPHERIC SOUNDING

Speed-dependent collision effects on radar back-scattering from the ionosphere — incoherent scatter radar [NASA-CR-173077] 03 p0359 N84-12336

Real-time update of 2 H. F. (High Frequency) channel evaluation models by oblique sounding [AD-A137556] 11 p1643 N84-20739

F-layer ionization patches in the polar cap [AD-A138633] 13 p2011 N84-23044

Ionospheric research using digital ionosondes [AD-A140012] 15 p2368 N84-25210

A high frequency radio technique for measuring plasma drifts in the ionosphere [AD-A140509] 16 p2526 N84-26219

On the possibilities of single-antenna ionosphere sounding 17 p2631 N84-26829

Meteor showers effects in the low terrestrial ionosphere detected at VLF ionosonde and long distance propagation paths [INPE-3242-PRE/588] 24 p3990 N84-35246

IONOSPHERIC STORMS

NT SUDDEN IONOSPHERIC DISTURBANCES

Low energy (130 eV) oxygen ions at the geosynchronous orbit during the CDAW-6 event of March 22, 1979 [IFSI-83-17] 18 p2881 N84-28291

IONOSPHERIC TEMPERATURE

Ionic reactions of atmospheric importance [AD-A137166] 11 p1683 N84-20981

IONS

NT ANIONS
NT ANTIPROTONS
NT CATIONS
NT DEUTERONS
NT FERRIC IONS
NT HEAVY IONS
NT HELIUM IONS
NT HYDROGEN IONS
NT LIGHT IONS
NT MANGANESE IONS
NT METAL IONS
NT MOLECULAR IONS
NT NEGATIVE IONS
NT NITROGEN IONS
NT OXYGEN IONS
NT POSITIVE IONS
NT PROTONS
NT SOLAR PROTONS

Raman studies of CuTCNQ: Resonance Raman spectral observations and calculations for TCNQ ion-radicals [AD-A130570] 01 p0097 N84-10231

Laser-induced bound states at surfaces: Ion neutralization and adsorption [AD-A130278] 01 p0086 N84-10562

Relativistic calculations and measurements of energies, Auger rates and lifetimes [AD-A130094] 01 p0141 N84-10924

Dielectronic recombination: An introduction [DE83-015738] 02 p0296 N84-11942

Transition flow ion transport via integral Boltzmann equation [UTIAS-269] 03 p0432 N84-12828

Solar wind minor ions: Recent observations 03 p0472 N84-13110

Minor constituents in the solar wind originating from plasma-dust interactions 03 p0474 N84-13116

Cobalt ion-containing epoxies [NASA-TM-85715] 04 p0505 N84-13309

Energization of ions by oblique double layers 04 p0561 N84-13700

Introduction: Advances and opportunities in cluster research [DE84-000364] 04 p0594 N84-13917

Host-lattice effects in the spin-orbit fine structure of vacancy-trapped electrons [DE84-000599] 04 p0614 N84-14052

Emission of short-wavelength photons from ion-surface charge exchange [AD-A133183] 06 p0914 N84-15942

Collisional-radiative model for helium-like ions: Application to intermediate-density plasmas [IPPJ-647] 06 p0919 N84-15976

Nonlinear interaction of toroidicity induced drift modes [DE84-001562] 06 p0921 N84-15987

Energy distributions and yields of secondary ions and electrons emitted by GIOTTO during Halley encounter [DE84-001661] 06 p0940 N84-16105

Interpretation of STS-3/plasma diagnostics package results in terms of large space structure plasma interactions [NASA-CR-173266] 07 p1075 N84-16991

Ionic conductivity of LI7BiO6 [AD-A135386] 08 p1124 N84-17307

Ion deposited carbon coatings [AD-A135068] 08 p1136 N84-17390

The ISPM experiment for spectral, composition and anistropy measurements of charged particles at low energie 09 p1261 N84-18235

Study of the effect of adsorbed ions on the electroerption of organic molecules and the kinetics of formation of condensed films [AD-A137892] 11 p1730 N84-21286

A method for evaluating the surface concentrations of 2 like-charged ions simultaneously adsorbed at an electrode-solution interface [AD-A139074] 13 p1957 N84-22724

Physical properties and structure of ion-containing polymers [AD-A139137] 14 p2129 N84-23766

Trapped-proton energy spectrum determination (M0002-1) 15 p2276 N84-24683

An improved ion drift meter [AD-A140043] 15 p2283 N84-24707

Fast ion atomic spectroscopy [DE84-006720] 15 p2404 N84-25432

Mass spectrometer for simultaneous detection of ions over wide range of mass 15 p2430 N84-25592

Fractionation of chemical elements at ocean-atmosphere interface 17 p2698 N84-27189

Crystal-field splittings of the Hund ground states of ndN ions in S4 symmetry: Theory and application to the Ga-3+ Gd-3Sc-2Ga-3O-12 [AD-A140623] 17 p2768 N84-27574

Influence of microturbulence on early time HANE structure [AD-A141244] 18 p2933 N84-28597

Mechanism and kinetics of the oxidation of the iodide ion by oxygen [BLL-CE-TRANS-8005-(9022.09)] 19 p2987 N84-28924

Influence of collisions on the magnetized ion-ion instability [AD-A141464] 19 p3101 N84-29696

The transfer of atoms, ions and molecular groups in solution. Part 1: Models and limits [AD-A142333] 20 p3147 N84-29981

The transfer of atoms, ions and molecular groups in solution. Part 2: Tunnelling between harmonic wells [AD-A142334] 20 p3147 N84-29982

Ion-molecule reactions and plasma parameters of positive column in oxygen glow discharge 21 p3476 N84-32036

Further effects of ions in the arca [DE84-011761] 21 p3495 N84-32149

Electron capture cross sections in high energy He2+ + neutral LI collisions [IPPJ-679] 21 p3500 N84-32182

Modified Thomson parabola ion spectrometers for use in laser generated plasma experiments [AD-A143298] 22 p3658 N84-33190

Plasma and magnetospheric research
[NASA-CR-171157] 23 p3827 N84-34275
Research studies on magnetohydrodynamic systems and modeling solar dynamical behavior
[AD-A143680] 23 p3844 N84-34389
A study of the interaction of millimeter wave fields with biological systems
[AD-A144150] 24 p3935 N84-34910

IOWA
Water resources data: Iowa water year, 1982
[PB84-137215] 10 p1528 N84-20009
Meteorological models for estimating phenology of corn
[E84-10160] 17 p2709 N84-27252
Air quality report, 1982
[PB84-166750] 17 p2725 N84-27346
LANDSAT-4 MSS and TM spectral class comparison and coherent noise analysis — The Des Moines, Iowa area 20 p3208 N84-30361
Preliminary evaluation of Thematic Mapper image data quality 20 p3214 N84-30415

IP (IMPACT PREDICTION)
U COMPUTERIZED SIMULATION

IPAD
Control Data ICEM: A vendors IPAD-like system 12 p1890 N84-22309
Impact of IPAD on CAD/CAM database university research 12 p1891 N84-22318
Development of Integrated Programs for Aerospace-vehicle Design (IPAD). IPAD user requirements: Implementation (first-level IPAD)
[NASA-CR-162713] 19 p2963 N84-28776

IRAS
U INFRARED ASTRONOMY SATELLITE

IRAS-ARAKI-ALCOCK COMET
Vibrational and rotational excitation of CO in comets. Part 1: Non-equilibrium calculations. Part 2: Results of the calculation for standard bright comet, comet Iras-Araki-Alcock and comet Halley
[NASA-TM-86122] 16 p2579 N84-26545

IRASERS
U INFRARED LASERS

IRIDIUM
Grain-boundary cavitation and weld-underbead cracking in DOP-26 iridium alloy
[DE83-015406] 03 p0389 N84-12539
New process for recycling of rhodium and iridium from old catalysts
[BMFT-FB-T-83-179] 08 p1126 N84-17321
Detection and sizing of underbead cracks using ultrasonic nondestructive examination
[DE83-012205] 11 p1666 N84-20869
Quenched magnetite in cretaceous-tertiary boundary microtektite-like spheroid 11 p1755 N84-21459
Manufacturing methods and technology engineering for 'Growth of large diameter Nd:YAG laser crystals'
[AD-A139002] 15 p2413 N84-25486
Platinum group coatings for refractory metals
[AD-A143792] 23 p3718 N84-33568

IRON
NT FERRIC IONS
NT IRON ISOTOPES
Magnetic properties and structure of monocrystals of Fe-24 percent Cr-15 percent Co-8 percent W alloys
[BLL-M-35131-(5828.4)] 01 p0040 N84-10253
High-temperature corrosion of iron and iron-based alloys in sulfur-containing atmospheres
[DE83-013843] 01 p0045 N84-10290
Effect of point defects on mechanical properties of metals
[DE83-014989] 01 p0046 N84-10297
Melting of metals above 100 GPa
[DE83-015261] 01 p0046 N84-10299
Structure and properties of polymers and organosilanes adsorbed onto oxidized aluminum and titanium
[AD-A130753] 01 p0050 N84-10321
Iron-air battery development
[DE83-015842] 01 p0073 N84-10482
New fabrication process for a tubular LiAl/FeS cell battery
[DE83-014305] 01 p0074 N84-10488
Theory of the iron equation of state and melting curve to very high pressures
[DE83-015699] 02 p0196 N84-11274
Comparison of damage microstructures in neutron-irradiated vanadium and iron
[DE83-017189] 03 p0354 N84-12304
Charge characteristics of Ni/Fe traction cells
[DE83-014205] 03 p0367 N84-12389
Spatial variation of iron abundance in the high speed solar wind, 1972 to 1976 03 p0473 N84-13113
Non-uniformity of elastic micro-deformations in austenitic steels
[BLL-M-35357-(5828.4)] 04 p0497 N84-13261
Reduction of tritium permeation through iron using aluminum-ion implantation
[DE84-000184] 04 p0500 N84-13279
Magnetic properties of iron and low-carbon steel for soft magnet application
[AD-A134120] 05 p0653 N84-14292
Measurement of precipitate nucleation times in molten metals by pulsed surface melting
[DE84-002383] 05 p0656 N84-14311
Investigation of the paramagnetic phase of BCC iron using polarized neutron scattering
[DE84-002857] 07 p0974 N84-16315
Observation of the effect of solute segregation on grain boundary structure
[DE84-002964] 07 p0975 N84-16319
Optical excitation of trapping states in Fe doped InP
[AD-A134183] 07 p1080 N84-17019
Passive films, surface structure and stress corrosion and crevice corrosion susceptibility
[AD-A135549] 08 p1132 N84-17363
Velocity and electronic state distributions of sputtered Fe atoms by laser-induced fluorescence spectroscopy
[DE84-003649] 08 p1230 N84-18040
Fast diffusion of iron in single crystal rutile and iron doped rutile
[DE84-004021] 08 p1236 N84-18079
Organometallics in high energy chemistry
[AD-A135715] 09 p1275 N84-18323
Iron and steel (selected articles)
[AD-A135576] 09 p1282 N84-18376
Theoretical studies of X-ray emission from supernova remnants and other non-equilibrium astrophysical plasmas
[NASA-CR-175394] 10 p1597 N84-20468
A multi-element study of ISUA iron-formation, W-Greenland 11 p1680 N84-20961
Emission properties of highly ionized iron spectra for spectroscopic plasma diagnositcs 11 p1735 N84-21314
Some aspects of the corrosion of iron in alkaline solutions and associated fundamental problems
[BLL-T6234/BG/LRS/LRST677/83] 12 p1795 N84-21707
Friction and wear of iron in sulfuric acid
[NASA-TP-2289] 12 p1796 N84-21716
Iron-copper metallization for flexible solar/cell arrays 12 p1841 N84-22000
Thermodynamics and kinetics of the gas phase and pack aluminide coating formation on iron and steel 13 p2049 N84-23291
Ultrasonic inspection of internal defects in castings
[VTT-201] 14 p2156 N84-23920
Interaction of sulfuric acid corrosion and mechanical wear of iron
[NASA-TM-83717] 18 p2813 N84-27857
Metal dissolution kinetics in halide melts
[DE84-004030] 19 p2995 N84-28977
Analysis of impurities forming recombination centers in silicon
[BMFT-FB-T-84-049] 19 p3113 N84-29779
Regulation of mechanical characteristic of iron-powder electromagnetic brake 21 p3379 N84-31444
Generalization of results of electro-simulation of temperature of the piece during centrifugal cladding
[BLL-M-35687-(5828.4)] 22 p3551 N84-32479
Determination of thermodynamic characteristics of the barium dissolution process in liquid iron
[BLL-M-35634-(5828.4)] 22 p3551 N84-32481
Influence of choice of pair-interaction potential on results of modelling an edge dislocation in Alpha-iron
[BLL-M-35662-(5828.4)] 22 p3553 N84-32499
Theoretical research program to predict the properties of molecules and clusters containing transition metal atoms
[NASA-CR-173924] 22 p3554 N84-32502
Thermal management of a lithium/iron-sulfide battery
[DE84-013438] 22 p3587 N84-32722
Geology and origin of the Aquila iron deposit in southwestern Michoacan, Mexico 22 p3613 N84-32890
Negative electrode catalyst for the iron-chromium REDOX energy storage system
[NASA-CASE-LEW-14028-1] 22 p3616 N84-32909
Production of extra-pure iron for cermet bearings 23 p3707 N84-33501
Structure and properties of polymers and organosilanes absorbed onto oxidized aluminum and titanium
[AD-A143935] 23 p3724 N84-33599
Toroidal equilibrium in an iron-core reversed field pinch
[DE84-013858] 23 p3826 N84-34283
Application of quantitative microscopy to ceramics
[NASA-TM-77420] 24 p3888 N84-34618
New Fe 2 lines in IUE spectra of stars 24 p3977 N84-35187
The ultraviolet spectrum of stars having optical Fe 2 emission lines 24 p3977 N84-35188

IRON ALLOYS
NT AUSTENITIC STAINLESS STEELS
NT BAINITIC STEEL
NT CARBON STEELS
NT CHROMIUM STEELS
NT FERRITIC STAINLESS STEELS
NT HIGH STRENGTH STEELS
NT LOW CARBON STEELS
NT MARAGING STEELS
NT MARTENSITIC STAINLESS STEELS
NT NICKEL STEELS
NT STAINLESS STEELS
NT STEELS
Heating and melting low-melting ferroalloys and hardeners in molten steel
[BLL-M-35219-(5828.4)] 01 p0040 N84-10256
The melting of iron containing reduced amounts of non-ferrous metal impurities
[BLL-M-35209-(5828.4)] 01 p0041 N84-10259
Electrical resistances of molten alloys of iron containing carbon, boron and phosphorus
[BLL-M-35214-(5828.4)] 01 p0041 N84-10263
The oxidation of porous metals
[BLL-TRANS-IZ.148-(5828.4)] 01 p0042 N84-10270
Grinding of cast iron with wheels made of superhard materials
[CSIR-TRANS-1687] 01 p0056 N84-10368
Magnetic susceptibility of Fe-B, Fe - P and Ni - P alloys
[BLL-M-35126-(5828.4)] 01 p0138 N84-10902
Corrosion-resistant behavior of amorphous and crystallized Fe-Ni-Cr-W alloys
[DE83-016815] 02 p0197 N84-11280
Corrosion behavior of Fe-Cr-Ni-Zr alloys in aggressive environments at high temperatures
[DE83-014735] 03 p0353 N84-12297
Single specimen J-integral testing
[DE83-016069] 03 p0390 N84-12543
Effect of implanted helium on the microstructure and creep properties of ordered (FeO.49 NiO.51) V-3 alloys
[DE84-000691] 04 p0500 N84-13278
Metallurgical explanation of double magnetic transitions and allied phenomena in AuFe alloys
[DE84-002024] 05 p0657 N84-14317
Oxygen adsorption and initial oxidation of single crystal first row transition metal and alloy surfaces 06 p0816 N84-15316
Moessbauer spectroscopy study of amorphous Fe67B11Au2 ribbon and its crystallization products
[DE83-018091] 06 p0924 N84-16010
Abrasive properties of ferroalloys
[BLL-M-35416-(5828.4)] 07 p0973 N84-16306
On the effect of fine grain size on the M sub s temperature in Fe-27Ni-0.025C alloys
[AD-A134807] 08 p1133 N84-17366
Chromium
[PB84-100882] 08 p1136 N84-17385
Martensitic transformations, relaxation and acoustic-emission properties of some alloys of the Fe-Ni-Mn system
[BLL-M-35434-(5828.4)] 09 p1281 N84-18363
The evaporation of iron and its alloying elements, copper and manganese, under reduced pressure using the levitation melting technique
[BLL-OA-TRANS-3117-(6196.3)] 09 p1281 N84-18367
Analysis of thermoelectric properties of high-temperature complex alloys of nickel-base, iron-base and cobalt-base groups
[NASA-TP-2278] 09 p1281 N84-18370
Ball-on-block impact-spalling wear test and results on several iron alloys
[PB84-115633] 09 p1319 N84-18615
Pre-transition phenomena in an iron-nickel alloy prior to the Martensite transformation 11 p1632 N84-20668
The development of wrought heat-resisting alloys for gas turbines
[CSIR-ME-1778] 11 p1632 N84-20669
Barriers to the migration of interphase boundaries
[AD-A137902] 11 p1633 N84-20679
Specifics of processes of deformation and microfracture of amorphous iron-based alloys 12 p1788 N84-21662
Influence of the base metal on the wear-resistance of high-strength cast iron
[BLL-M-35504-(5828.4)] 12 p1796 N84-21712
Analysis of microstructure and strengthening mechaniems in laser surface alloyed Fe-Cr and Fe-C-Cr alloy systems
[AD-A137971] 12 p1797 N84-21722

An investigation of the structure and high temperature mechanical properties of oxide dispersion strengthened alloys
[AD-A139359] 14 p2128 N84-23756
Metastable phases of rapidly solidified Al-rich, Al-Fe alloys
[AD-A139598] 14 p2128 N84-23757
Status of understanding for gear materials 15 p2342 N84-25061
Creep-rupture behavior of candidate Stirling engine alloys after long-term aging at 760 deg C in low-pressure hydrogen
[NASA-TM-83676] 16 p2464 N84-25793
The role of traps in the microstructural control of hydrogen embrittlement of steels
[AD-A141249] 18 p2814 N84-27863
A comparison of the ultrasonic attenuation of Fe-C alloys in the annealed, normalised and quenched states
[AERE-R-10956] 18 p2929 N84-28573
Creep-rupture behavior of candidate Stirling engine iron superalloys in high-pressure hydrogen. Volume 2: Hydrogen creep-rupture behavior
[NASA-CR-174705] 19 p2992 N84-28961
Erosion of iron-chromium alloys by glass particles
[NASA-TP-2354] 19 p2993 N84-28965
A fundamental study of P/M processed elevated temperature aluminum alloys
[AD-A141780] 19 p2994 N84-28974
Sulfur and antimony segregation to creep cavity surfaces in Ni and an FCC Fe-Ni-Cr alloy
[DE84-011458] 20 p3154 N84-30028
Improved oxidation sulfidation resistance of Fe-Cr-Ni alloys
[DE84-010066] 20 p3156 N84-30039
Oxidation-sulfidation behavior of Fe-Cr-Ni alloys containing additions of Zr, Nb, or Ti
[DE84-005411] 20 p3156 N84-30043
Creep-fatigue and temperature synergisms in alloy 800
[DE84-010131] 20 p3157 N84-30046
Explosion parameters of ferroalloy dusts
[BLL-M-35571-(5828.4)] 20 p3165 N84-30102
Environment and fracture
[DE84-011454] 21 p3367 N84-31360
Fatigue crack growth behavior of an oxide dispersion strengthened MA956 alloy
[AD-A142059] 21 p3421 N84-31702
Fundamental alloy studies
[DE84-013941] 22 p3555 N84-32513
Ferrous alloy metallurgy, liquid lithium corrosion and welding
[DE84-014656] 22 p3556 N84-32517
Aircraft landing dynamics facility carriage weld test program
[NASA-TM-85802] 22 p3603 N84-32627
The effect of internal hydrogen on near-threshold fatigue crack propagation in iron base systems 23 p3717 N84-33560
Fracture toughness of irradiated HT-9
[DE84-013935] 23 p3719 N84-33578

IRON CHLORIDES
Chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] 18 p2868 N84-28205
C1 K-edge X-ray absorption studies of concentrated ferric chloride solutions
[AD-A142190] 19 p2989 N84-28940

IRON COMPOUNDS
NT CHROMITES
NT FERRITES
NT IRON CHLORIDES
NT IRON OXIDES
NT MAGNETITE
Properties of grey cast iron treated with pulsating current during inoculation
[BLL-M-35118-(5828.4)] 01 p0040 N84-10252
Fracture-toughness testing of ductile cast irons
[DE83-010824] 01 p0046 N84-10294
Microstructures of pulse-melted Fe-Ti-C alloys
[DE83-015213] 01 p0155 N84-11024
The chemistry of transition metal carbene complexes
[AD-A133541] 06 p0801 N84-15225
The electronic structure of C(2x2)S/Fe(100): S 3p-level dispersions and linewidths. Revision
[AD-A138124] 12 p1797 N84-21725
Electrochemical and spectroscopic studies of polypyridine complexes of Fe(2)/(3) and Ru(2)/(3) in the aluminum chloride: N-(1-Butyl)Pyridinium chloride molten salt
[AD-A139170] 14 p2122 N84-23715
CO + H/sub 2 reaction over nitrogen-modified iron catalysts
[DE84-009046] 15 p2288 N84-24727
A twisted P-C double bond: Synthesis and structure of a (Methylene)phosphine Fe-CO-4 complex
[AD-A141502] 19 p2984 N84-28907
Iron nitrate and MON-3 nitrogen tetroxide 20 p3136 N84-29909
A study of methods for alleviation of flow decay risk to the Galileo spacecraft 20 p3137 N84-29919
Electrostatic filtration of N2O4 for removal of solid and vapor contaminants 20 p3138 N84-29922
Method of directly crystallizing a (Sm + Tl):Fe = 1:5 compound
[AD-D011061] 23 p3830 N84-34291

IRON ISOTOPES
Pion elastic and inelastic scattering from (40) (42) (44) (48)Ca and (54)Fe
[DE84-009080] 20 p3296 N84-30927
Obtaining iron-55 with high radiochemical purity
[CSIR-TRANS-1751] 22 p3553 N84-32494

IRON METEORITES
Cosmic ray exposure ages of iron meteorites, complex irradiation and the constancy of cosmic ray flux in the past 11 p1755 N84-21455

IRON ORES
Development of a multilayer process based on the down draft principle for the sintering of iron ore
[BMFT-FB-T-83-065] 02 p0197 N84-11282
Development of a method and apparatus for quantitative assessment of the iron content of rocks and ores by means of data obtained from borehole radiometry
[BLL-M-28724-(5828.4)] 02 p0246 N84-11613

IRON OXIDES
NT CHROMITES
NT MAGNETITE
Comparison of the calculated properties of high-angle (001) twist boundaries in MnO, FeO, CoO and NiO with MgO
[DE83-015677] 02 p0201 N84-11307
Adsorption of humic acids and trace metals in natural waters
[NASA-CR-174481] 02 p0238 N84-11563
FeO and H-2O and the homogeneous accretion of the earth
[NASA-CR-173242] 07 p1028 N84-16664
The density of liquid slags containing iron oxide
[NPL-DMA(A)-75] 17 p2622 N84-26782
Photoelectrochemistry at iron oxide electrodes
[DE84-011453] 20 p3150 N84-30003
Investigation of the role of sintering in gas-solid interactions
[DE84-010862] 20 p3163 N84-30089
Cation self-diffusion in Fe2O3
[DE84-009152] 20 p3310 N84-31025
Point defects and diffusion mechanisms in the monoxides of the iron-group metals
[DE84-012105] 21 p3505 N84-32210

IROQUOIS HELICOPTER
U UH-1 HELICOPTER

IRRADIANCE
NT ILLUMINANCE
NT SOLAR CONSTANT
A high resolution solar atlas for fluorescence calculations
[NASA-CR-173366] 10 p1597 N84-20465
Background sources in optical communications
[NASA-CR-173457] 12 p1907 N84-22422
Measurement and analysis of diffuse solar irradiance 13 p2091 N84-23548
Stray light analysis of the Diffuse Infrared Background Experiment (DIRBE)
[NASA-CR-175225] 16 p2575 N84-26529
Irradiance from stars based on blackbody theory
[NASA-TM-82582] 17 p2775 N84-27617
Solar Irradiance Variations on Active Region Time Scales
[NASA-CP-2310] 17 p2778 N84-27635
Solar total irradiance variability measurements by the SMM/ACRIM I experiment 17 p2778 N84-27636
Status of solar measurements and data reduction for ERB-Nimbus 7 17 p2778 N84-27637
Facular limb-darkening functions for irradiance modeling 17 p2778 N84-27638
Ground-based measurements of solar irradiance variations 17 p2778 N84-27639
Two-dimensional photometry of active regions 17 p2778 N84-27640
Helium 10830 angstrom irradiance: 1975-1983 17 p2779 N84-27648
The solar constant, climate, and some tests of the storage hypothesis 17 p2780 N84-27649
Temporal variations of solar UV spectral irradiance caused by solar rotation and active region evolution 17 p2780 N84-27650
Modelling solar spectral irradiance variations at ultraviolet wavelengths 17 p2780 N84-27651
The NOAA-ERL-ARL solar UV radiation and climate research project program description
[PB84-183292] 20 p3319 N84-31070
The effect of dimensionality on solar spectrum curves
[DE84-014136] 22 p3680 N84-33327
Recovery of spectral optical depth and zero-airmass solar spectral irradiance under conditions of temporally varying optical depth 23 p3775 N84-33930

IRRADIATION
NT AURORAL IRRADIATION
NT ELECTRON IRRADIATION
NT ION IRRADIATION
NT NEUTRON IRRADIATION
NT PROTON IRRADIATION
NT X RAY IRRADIATION
Surface analysis of graphite fiber reinforced polyimide composites
[NASA-TM-85700] 02 p0188 N84-11220
Tensile behavior of three commercial ferritic steels after low-temperature irradiation
[DE83-014044] 02 p0195 N84-11264
Raising the surface damage threshold of neutral solution processed BK-7 by pulse laser irradiation
[DE83-012660] 02 p0225 N84-11477
Beam-target interaction of intense ion beams: Theory and experiment
[DE83-018264] 03 p0436 N84-12858
The growth and measurement of single-crystal doped GGG (Gd3-xCaxGa5-xZrx012)
[AD-A131875] 03 p0452 N84-12971
Effect of phosphorus on the swelling and precipitation behavior of austenitic stainless steels during irradiation
[DE84-000412] 04 p0499 N84-13275
Irradiation response in titanium-modified austenitic stainless steels prepared by rapid-solidification processing. Part 3. A model for the effect of titanium addition
[DE84-001296] 04 p0500 N84-13281
Irradiation response in titanium-modified austenitic stainless steels prepared by rapid-solidification processing. Part 1: Microstructural response to neutron irradiation
[DE84-001298] 04 p0501 N84-13283
Radiation-induced phosphorus segregation in austenitic and ferritic alloys
[DE84-000903] 04 p0504 N84-13302
Dislocation/obstacle interactions during low-dose irradiation creep of nickel
[DE84-001416] 04 p0504 N84-13303
Pulsed-ion-irradiated microstructures in molybdenum
[DE84-000679] 04 p0504 N84-13304
Structural performance of ceramics in a high-fluence fusion environment
[DE84-001311] 04 p0508 N84-13329
Miniaturized disk bend tests of neutron-irradiated path A type alloys
[DE84-001277] 04 p0549 N84-13618
Study of defects produced in tungsten by 800-MeV protons using field-ion microscopy
[DE84-001359] 04 p0613 N84-14048
Design and use of nonstandard tensile specimens for irradiated materials testing
[DE84-001468] 06 p0806 N84-15254
Use of the disk bend test to assess irradiation performance of structural alloys
[DE84-001484] 06 p0806 N84-15255
Photoenhancement of gas-solid reactions by surface excitation — ultraviolet irradiation
[DE84-003106] 07 p0972 N84-16299
Swelling behavior of a simple ferritic alloy
[DE84-003162] 07 p0976 N84-16329
Experimental apparatus for studying moving thermoacoustic sources
[AD-A134517] 07 p1010 N84-16549
Dependence of thermoluminescence output on temperature during irradiation for several thermoluminescence phosphors
[AD-A134940] 08 p1125 N84-17313
Fracture toughness of ferritic alloys irradiated in HFIR
[DE84-004594] 10 p1462 N84-19547
Wire tensile testing for radiation hardening experiments
[DE84-005884] 11 p1634 N84-20684
Shearing stability of lubricants
[NASA-TM-77435] 11 p1636 N84-20697
Cosmic ray exposure ages of iron meteorites, complex irradiation and the constancy of cosmic ray flux in the past 11 p1755 N84-21455
Effect of electron irradiation on relaxation of tension in aluminum and aluminum alloys 12 p1784 N84-21639
Review of storage stability characteristics of hydrocarbon fuels, 1952-1982
[DE84-006557] 12 p1803 N84-21754
Functional assessment of laser irradiation
[AD-A139490] 15 p2378 N84-25273
Functional assessment of laser irradiation
[AD-A139507] 15 p2378 N84-25274
Mechanical behavior of ultra high molecular weight polyethylene
[PB84-175536] 16 p2473 N84-25851

A parametric study of surface transformation hardening with high-power lasers
[AD-A140160] 16 p2497 N84-26023
Experiments on chemical and physical evolution of interstellar grain mantles 16 p2570 N84-26495
Surface embrittlement of polyethylene pipe grade resins
[PB84-181973] 17 p2627 N84-26811
GfW handbook: Irradiation test guidelines for radiation hardness of electronic components
[HMI-B-380] 17 p2664 N84-26994
Activity of respiratory system during laser irradiation of brain structures 17 p2742 N84-27409
Interaction of high-intensity radiation with matter
[BLL-M-35558-(5828.4)] 17 p2764 N84-27553
Evolution of cavity microstructure in ion-irradiated 316 SS and Fe-20Ni-15Cr alloy
[DE84-012111] 20 p3158 N84-30053
Ceramics for fusion devices
[DE84-011409] 20 p3162 N84-30082
Rat behavior in selection of negative stimulus: Pain or exposure to electromagnetic field 20 p3255 N84-30657
Biological effects of millimeter-wave irradiation: Living bacterial organisms
[AD-A142474] 20 p3256 N84-30670
Preliminary result of our new Nationwide Evaluation of X-ray Trends (NEXT) program for Italy
[ISS-L-84/3] 20 p3260 N84-30693
Dynamics of plasma corona on spherical targets irradiated by laser 20 p3288 N84-30678
Heating and implosion of spherical targets irradiated by laser 20 p3288 N84-30679
Ion bombardment effects of the fatigue life of stainless steel under simulated fusion first wall conditions
[DE84-001300] 21 p3367 N84-31359
Laser Induced Chemistry. 1984 JPM Specialist Session
[AD-A142922] 21 p3372 N84-31400
CO2 laser decomposition of the alkyl phosphites 21 p3373 N84-31402
Laser induced polymerization reactions in solid propellant binders 21 p3373 N84-31403
Laser induced nitrations of some aliphatic hydrocarbon compounds 21 p3373 N84-31404
Effect of thermal irradiation from evaporation source to photo-darkening sensitivity of vacuum deposited AgBr film 21 p3477 N84-32038
Newly discovered effect of interaction of optical radiation and glass 21 p3482 N84-32069
Irradiation of optimized, MBE grown, AlGaAs radiation hardened photodiode
[DE84-006034] 21 p3504 N84-32208
East Europe report: Scientific affairs
[JPRS-ESA-84-007] 23 p3728 N84-33628
Study in spurious sensitivity of electronics
[AD-A143947] 23 p3742 N84-33719
Hardening alloy surfaces by laser irradiation 24 p3869 N84-34518
Thermal effect of pulsed laser irradiation on the surface of metallic mirrors 24 p3869 N84-34519
Irradiation creep of solution annealed and coldworked 316 stainless steel
[DE84-760404] 24 p3885 N84-34613
Effect of dose rate on the microstructure of CW 316 SS
[DE84-760403] 24 p3885 N84-34614
Chemical etching of transformed structures
[AD-D011188] 24 p3968 N84-35114

IRREGULARITIES
High-latitude F-region irregularities: Intensity and scale size distributions
[AD-A130689] 01 p0105 N84-10684
Observations and theory of irregularities of middle latitude sporadic E layers 04 p0562 N84-13703
Adaptation to irregularity of rest and activity 11 p1697 N84-21070
Modelling of ionospheric irregularities and total electron content
[AD-A141236] 18 p2880 N84-28284
Temporal and latitudinal distribution of ionosphere irregularity in Brazil, data analysis of scintillations in very high frequencies and ionograms
[INPE-3179-TDL/172] 23 p3798 N84-34081

IRREVERSIBLE PROCESSES
Numerical modeling of dynamic material response
[DE83-016233] 02 p0232 N84-11524
Insulin and cortisol improve heat tolerance in isolated perfused rat liver
[AD-A133382] 07 p1042 N84-16758

IRRIGATION
Evaluation of pumps for wind-driven irrigation
[DE83-013438] 01 p0090 N84-10587
Subsidence monitoring for state of Arizona
[PB84-126960] 06 p1189 N84-17750
Use of digitized radar and microcomputers to forecast local floods and irrigation needs
[PB84-105568] 06 p1192 N84-17767
Irrigated lands: Monitoring by remote sensing
[NASA-CR-173945] 23 p3783 N84-33854

IRRITATION
NT TOXICITY AND SAFETY HAZARD

IRROTATIONAL FLOW
U POTENTIAL FLOW

IRS (INDIAN SPACECRAFT)
U INDIAN SPACECRAFT

ISEE
U INTERNATIONAL SUN EARTH EXPLORERS

ISEE A
U INTERNATIONAL SUN EARTH EXPLORER 1

ISEE B
U INTERNATIONAL SUN EARTH EXPLORER 2

ISEE C
U INTERNATIONAL SUN EARTH EXPLORER 3

ISEE 1
U INTERNATIONAL SUN EARTH EXPLORER 1

ISEE 2
U INTERNATIONAL SUN EARTH EXPLORER 2

ISEE 3
U INTERNATIONAL SUN EARTH EXPLORER 3

ISENTROPIC PROCESSES
Characterization of the pressure wave originating in the explosion of a gas cloud 06 p0636 N84-15446
Altering the volumetric expansion ratio of a Lysholm helical screw expander
[DE84-013695] 22 p3564 N84-32573
Empirical modeling of a Lysholm helical screw expander
[DE84-013694] 22 p3564 N84-32574
Preliminary assessment of the velocity pump reaction turbine as a geothermal total-flow expander
[DE84-014749] 23 p3791 N84-34043

ISING MODEL
U FERROMAGNETISM
U MATHEMATICAL MODELS

ISLAND ARCS
Subalkaline basaltic magmatism of active ocean-continent transition zones 18 p2857 N84-28144
Overseas programs 19 p3038 N84-29272
Volcanism, plutonism, and sedimentation in a late Devonian Submarine Island-arc setting, Northern Sierra Nevada, California 21 p3441 N84-31831

ISLANDS
NT ALEUTIAN ISLANDS (US)
NT ASSATEAGUE ISLAND (MD-VA)
NT GREENLAND
NT HAITI
NT HAWAII
NT ICELAND
NT INDONESIA
NT JAMAICA
NT JAPAN
NT KURILE ISLANDS
NT NEW GUINEA (ISLAND)
NT NEW ZEALAND
NT PACIFIC ISLANDS
NT PHILIPPINES
NT PUERTO RICO
NT SICILY
Pacific Basin Communications Study, volume 1
[NASA-CR-173173] 12 p1805 N84-21767
Pacific Basin Communication Study, volume 2
[NASA-CR-173174] 12 p1805 N84-21768
Experiments examining the shapes of isolated bars in comparison with those occurring in braided rivers 13 p2064 N84-23503
The erosion of streamlined islands, longitudinal grooves and scour marks: Implications to the origin of the Martian outflow channels 13 p2064 N84-23504

ISOBUTANE
U BUTANES

ISOBUTYLENE
U BUTENES

ISOCYANATES
Transient horizontal flame spread tests on cellular plastics - experimental results, volume 1
[PB84-135458] 10 p1469 N84-19595

ISOLATION
NT SOCIAL ISOLATION
Laser window with annular grooves for thermal isolation
[DE84-011114] 21 p3410 N84-31625
The spatial and temporal distribution of diffuse and direct solar radiation in the Federal Republic of Germany
[BMFT-FB-T-84-125] 23 p3802 N84-34110

ISOLATORS
NT VIBRATION ISOLATORS
A study of distributed millimeter-wave isolators
[AD-A142729] 20 p3179 N84-30189

ISOMERIZATION
Study of factors leading to regrouping of the chain structure during ionic diene polymerization
[BLL-M-26719-(5828.4)] 01 p0048 N84-10309
Photochemical energy storage (photosensitized isomerization of norbornadiene to quadricyclane by copper (I) complexes)
[AD-A135363] 08 p1180 N84-17687

ISOMERS
NT ISOPROPYL ALCOHOL
Organophosphazenes: 17: The synthesis of trimethylsilylacetylene and terminal acetylene derivatives of hexfluorocyclotriphosphazene
[AD-A141429] 19 p2983 N84-28906

ISOMORPHISM
Determination of composition profile for isomorphic binary alloys
[INPE-2813-RPE/438] 02 p0193 N84-11251
Symmetric set theory, a general theory of isomorphism, abstraction, and representation
[AD-A133630] 05 p0741 N84-14868
Clines induced by a geographical barrier
[MC-TW-244/83] 07 p1065 N84-16908

ISOPARAMETRIC FINITE ELEMENTS
Some thoughts on 3-D isoparametric elements
[ARL-STRUC-NOTE-489] 07 p1059 N84-16880
Finite element analysis of bonded joints
[AD-A140559] 17 p2680 N84-27068
Stability and convergence of underintegrated finite element approximations 21 p3420 N84-31696
Hybrid stress reduced-Mindlin elements for thin multilayer plates with application to edge contact problems 22 p3608 N84-32857

ISOPLETHS
U NOMOGRAPHS

ISOPROPYL ALCOHOL
An acoustic levitation technique for the study of nonlinear oscillations of gas bubbles in liquids
[AD-A132858] 05 p0681 N84-14477

ISOPROPYL COMPOUNDS
NT ISOPROPYL ALCOHOL

ISOPYCNIC PROCESSES
Nonstationary oblique-shock-wave reflections in air
[UTIAS-270] 21 p3399 N84-31562

ISOSTATIC PRESSURE
Consolidation of Si3N4 without additives (by hot isostatic pressing)
[NASA-CR-173279] 08 p1136 N84-17389
A study of fatigue crack propagation in powder metallurgy hot isostatically pressed nickel-base alloy
[AD-A139290] 14 p2127 N84-23754

ISOSTERIC PROCESSES
U ISOPYCNIC PROCESSES

ISOTHERMAL FLOW
Crossed hot-wire data acquisition and reduction system
[NASA-TM-85871] 11 p1656 N84-20807
Problem independent numerical simulation of two-phase flow in combustors 15 p2294 N84-24768
Operational demonstration of a field of high performance flat plate collectors with isothermal heat transport
[BMFT-FB-T-83-2] 15 p2362 N84-25171

ISOTHERMAL PROCESSES
Revised isothermal analysis program for Stirling engines
[DE83-017276] 03 p0384 N84-12504
Development of an isothermal forming technique for the production of precision parts made from titanium alloys
[BMFT-FB-T-83-220] 10 p1472 N84-19616
Isothermal calorimetric investigation of a reversible reaction in rapidly solidified Fe40Ni40B20
[DE84-006013] 15 p2298 N84-24791

ISOTHERMS
Theory of the iron equation of state and melting curve to very high pressures
[DE83-015899] 02 p0196 N84-11274
Baroclinic Rossby wave signature in a general circulation ocean model
[AD-A132219] 04 p0569 N84-13750
Thermophysical properties of gaseous carbon dioxide/water mixtures
[PB84-125228] 08 p1127 N84-17330
Deterministic chaos in materials exhibiting phase transitions
[AD-A135172] 06 p1158 N84-17537
Solid propellant nonlinear constitutive theory extension
[AD-A139957] 15 p2304 N84-24823
Analyzing temperature data from XBT grid surveys
[AD-A140685] 17 p2737 N84-27388

ISOTOPE EFFECT
Isotope dependence of the breakdown strength of gases
[DE83-017272] 03 p0373 N84-12430
Resonance ionization mass spectroscopy at Los Alamos National Laboratory
[DE84-001705] 07 p0972 N84-16297

Line width and line shape analysis in the inductively coupled plasma by high resolution Fourier transform spectrometry
[DE84-004358] 10 p1457 N84-19513
Deuterium isotope effects in HMX thermochemical mechanisms: Decomposition, deflagration, and combustion 13 p1950 N84-22680
Isotope effects in the solution of gases in liquids
[DE84-014848] 23 p3715 N84-33549

ISOTOPE SEPARATION
Advanced-laser development for isotope separation
[DE83-016151] 02 p0227 N84-11488
Research activities in materials and molecular research
[DE83-015005] 03 p0347 N84-12255
Solid state copper vapor laser modulator
[DE83-015837] 03 p0380 N84-12475
Selective laser ionization for mass-spectral isotopic analysis
[DE83-017303] 03 p0381 N84-12483
Separated isotopes: Vital tools for science and medicine
[DE83-011646] 04 p0603 N84-13981
Process for isotope separation
[DE84-001983] 06 p0844 N84-15507
Stable isotope studies
[DE84-002436] 10 p1577 N84-20332

ISOTOPE SHIFT
U ISOTOPE EFFECT

ISOTOPES
NT AMERICIUM
NT AMERICIUM 241
NT ARSENIC ISOTOPES
NT BERYLLIUM 9
NT BERYLLIUM 10
NT CALCIUM ISOTOPES
NT CARBON 12
NT CARBON 13
NT CARBON 14
NT CESIUM VAPOR
NT CESIUM 137
NT COBALT 60
NT DEUTERIUM
NT HELIUM ISOTOPES
NT HYDROGEN ISOTOPES
NT IODINE ISOTOPES
NT IODINE 131
NT IRON ISOTOPES
NT KRYPTON 85
NT LUTETIUM
NT MAGNESIUM ISOTOPES
NT NEON ISOTOPES
NT NITROGEN 15
NT OXYGEN ISOTOPES
NT PLUTONIUM
NT PLUTONIUM 238
NT RADIOACTIVE ISOTOPES
NT RADON ISOTOPES
NT RUBIDIUM ISOTOPES
NT SILVER ISOTOPES
NT STRONTIUM ISOTOPES
NT TELLURIUM
NT TRITIUM
NT URANIUM 235
NT URANIUM 238
NT XENON 133
Quantitative Secondary Ion Mass Spectroscopy (SIMS)
[AD-A134195] 06 p1125 N84-17315
The isotopic composition of energetic particles emitted from a large solar flare 06 p1245 N84-18140
Granitic rocks and metasediments in Archean crust, Rainy Lake area, Ontario: ND isotope evidence for mantle-like SM/ND sources 11 p1680 N84-20964
Archean crust-mantle geochemical differentiation 11 p1680 N84-20966
Interstellar-gas experiment (A0038) 15 p2275 N84-24660
Chemical and isotopic measurements of micrometeoroids by secondary ion mass spectrometry (A0187-2) 15 p2276 N84-24670
Isotopically selective counting of noble gas atoms, using resonance ionization spectroscopy
[DE84-011638] 21 p3361 N84-31320

ISOTOPIC LABELING
Evaluation of a laser-based photoacoustic spectrometer in measurement of stable-isotope ratios
[DE83-014628] 01 p0088 N84-10574
The contribution of nuclear medicine to cardiology 11 p1700 N84-21092
The vertical redistribution of a pollutant tracer due to cumulus convection 13 p2013 N84-23057

ISOTROPIC MEDIA
Torsion characteristics of isotropic and carbon fiber reinforced carbons
[REPT-35] 02 p0189 N84-11226
The radiance from an isotropic point source in a multiple scattering medium
[FOA-C-30326-E2] 02 p0295 N84-11935
Some remarks on the definition of material isotropy 17 p2761 N84-27539

ISOTROPIC TURBULENCE
An experimental study of the response of a nearly isotropic grid turbulence to a spectrally local disturbance and an investigation of the coherent structures associated with a turbulent spot in a laminar boundary layer 05 p0678 N84-14459
Improved turbulence models based on large eddy simulation of homogeneous, incompressible turbulent flows
[NASA-CR-166541] 06 p1156 N84-17528
Analytical studies of turbulent flow fields
[AD-A137008] 10 p1493 N84-19761
A spatial model of wind shear and turbulence for flight simulation
[NASA-TP-2313] 14 p2178 N84-24044

ISOTROPISM
Numerical solution to the steady state equation of transfer in azimuthally symmetric geometries — heat transfer and molecular flow
[DE84-001781] 06 p0845 N84-15509
Buckling of a sublaminate in a quasi-isotropic composite laminate
[NASA-TM-85755] 09 p1275 N84-18325
Dynamic, steady-state crack propagation in linear isotropic viscoelastic material
[AD-P003114] 16 p2468 N84-25819

ISOTROPY
NT ISOTROPIC MEDIA
A study of the return to isotropy of homogeneous turbulence 06 p0780 N84-15110
Analytical results for postbuckling behavior of plates in compression and shear
[NASA-TM-85766] 14 p2157 N84-23922
Nonlocal heat transport by non-Maxwellian electrons
[DE84-012391] 20 p3306 N84-31000
Preliminary study on elastoplasticity in large transformations
[CETIM-11-E-360] 21 p3424 N84-31719
Refined methods of aeroelastic analysis and optimization — swept wings, propeller theory, and subsonic flutter
[NASA-CR-173967] 23 p3760 N84-33835
Post-buckling of initially stressed thick plates 24 p3958 N84-35060

ISRAEL
Coastal bathymetry and currents from LANDSAT data 17 p2718 N84-27303

ITALY
Radioactivity levels in humid and dry fallout gathered in the last 20 years in some points of the Padana Valley (Italy)
[CISE-2069] 05 p0701 N84-14598
The Centro Informazioni Studi Esperienze (CISE) activity in background radioactivity
[CISE-2070] 05 p0701 N84-14599
Sediment radioactivity in the stretch of the Po river from Monte Trino to Valle Caorso: Some results for the period 1978-82
[CISE-2071] 05 p0701 N84-14600
The RIAM project — mobile radio systems; Italy; power transmission networks 10 p1477 N84-19653
Preliminary result of our new Nationwide Evaluation of X-ray Trends (NEXT) program for Italy
[ISS-L-84/3] 20 p3260 N84-30693

ITERATION
NT CONJUGATE GRADIENT METHOD
NT ITERATIVE SOLUTION
Multigrid semi-implicit hydrodynamics revisited
[DE83-012675] 01 p0081 N84-10526
Block iterative methods for elliptic finite element equations
[AD-A129150] 01 p0129 N84-10841
Research initiation: Aggregated hierarchical control
[PB83-226761] 01 p0135 N84-10887
Galilean satellite geomorphology
[NASA-CR-174574] 03 p0464 N84-13057
On the Fatou set of monic polynomials 04 p0575 N84-13788
Application of the implicit Fourier-expansion method to the calculation of three-dimension equilibria by the iterative method
[DE83-017621] 04 p0590 N84-13902
Reflection and transmission of electromagnetic waves at a rough interface between two different media
[PB83-217568] 06 p0826 N84-15389
Subpicosecond-relaxation studies using tunable-laser-induced-grating techniques 06 p0848 N84-15531
An investigation of the use of iterative linear equation solvers in codes for large stiff systems of ODE's
[AD-A133189] 06 p0901 N84-15845
A local-relaxation method for solving convection-diffusion equations
[NLR-MP-82030-U] 06 p0903 N84-15862
A lifting surface computer code with jet-in-crossflow interference effects. Volume 1: Theoretical description
[NASA-CR-166524] 07 p0947 N84-16147
Termination strategies for Newton iteration in full multigrid methods
[MC-NW-159/83] 07 p1066 N84-16921
Considerations on the external combustion system of the Stirling hot gas engine
[NASA-TM-77026] 08 p1123 N84-17302
Matrix-free methods in the solution of stiff systems of ODE's
[DE84-003361] 08 p1221 N84-17974
Constructing a depth map from images
[AD-A135679] 09 p1337 N84-18731
Interval methods for fixed-point problems
[AD-A136323] 09 p1373 N84-18965
Recursive interpolation of space-limited scenes
[AD-A136215] 09 p1379 N84-19007
Convergence theories of distributed iterative process: A survey
[AD-A135875] 09 p1382 N84-19027
Use of adaptive walls in 2D tests
[NASA-TM-77360] 10 p1432 N84-19359
Adapting iterative algorithms for solving large sparse linear systems for efficient use on the CDC CYBER 205 10 p1560 N84-20220
Newton like: Minimal residual methods applied to transonic flow calculations
[NASA-CR-172305] 10 p1568 N84-20275
Correlation structure in iterated Farlie-Gumbel-Morgenstern distributions
[AD-A137055] 10 p1571 N84-20293
Computational aspects of the nonlinear normal mode initialization of the GLAS 4th order GCM 12 p1853 N84-22071
PLAFST programmable logic array from state table
[AD-A138466] 12 p1883 N84-22275
Data compression
[AD-A138541] 13 p2024 N84-23124
A short note on recent advances in the adaptive wall technique for 3D-model tests at the TU-Berlin 14 p2095 N84-23571
An approximate Newton method for coupled nonlinear systems
[AD-A139589] 14 p2214 N84-24300
The numerical treatment of linear integrodifferential equations
[HMI-B-381] 15 p2399 N84-25386
Seminar on Zeroing Methods and Applications, spring trimester, 1983 16 p2540 N84-26304
Internal iteration methods 16 p2541 N84-26305
Modification to shock fitting program
[NASA-TM-86097] 16 p2548 N84-26353
A numerical analysis for blade tip loadings on a thick bladed hovering helicopter rotor 17 p2599 N84-26658
Method of calculating strong viscous interaction at delta wing 17 p2644 N84-26916
Non-Gaussian statistical models of surface wave fields for remote sensing applications 17 p2715 N84-27284
Preconditioned iterative methods for nonselfadjoint or indefinite elliptic boundary value problems
[AD-A140777] 17 p2758 N84-27511
Procedures for signal reconstruction from noisy phase
[AD-A142185] 19 p3016 N84-29120
An iterative method for restoring noisy blurred images
[AD-A142201] 19 p3016 N84-29122
Turbulence and surface heat transfer near the stagnation point of a circular cylinder in turbulent flow
[NASA-TM-83732] 19 p3021 N84-29157
A new minimax algorithm
[NASA-CR-172382] 19 p3074 N84-29603
Synthesis of arbitrary broadband signals for a parametric array
[AD-D011021] 19 p3100 N84-29691
Iterative coupling of partitioned clusters in the scattered-wave molecular-orbital method
[AD-A141522] 19 p3101 N84-29697
Ada (trademark) tasking in numerical analysis
[AD-P003429] 20 p3271 N84-30761
Modifications to iterative recursion unfolding algorithms and computer codes to find more appropriate neutron spectra
[AD-A142475] 20 p3273 N84-30775
A model of asynchronous iterative algorithms for solving large, sparse, linear systems
[NASA-CR-172418] 21 p3469 N84-31988
Flux-vector splitting and Runge-Kutta methods for the Euler equations
[NASA-CR-172415] 21 p3470 N84-31993

Multiple grid methods for equations of the second kind with applications in fluid mechanics
[MATH-CENTRE-TRACTS-163] 21 p3474 N84-32018
High-order sparse factorization methods for elliptic boundary value problems
[DE84-012582] 22 p3646 N84-33122
Method of acceleration of arithmetic calculations 24 p3941 N84-34949
A study of some multi-grid ideas
[AD-A144465] 24 p3951 N84-35021
Iterative methods for elliptic problems and the discovery of Q
[AD-A144483] 24 p3952 N84-35022

ITERATIVE NETWORKS
Modular computing networks: A new methodology for analysis and design of parallel Algorithms/Architectures
[AD-A139600] 14 p2209 N84-24261
Test procedures and design methods for reliable large scale integrated circuits and systems
[AD-A143324] 22 p3638 N84-33061

ITERATIVE SOLUTION
Algorithms for nonlinear programming
[AD-A130903] 01 p0122 N84-10796
Computational experience in solving equilibrium models by a sequency of linear complementarity problems
[DE83-011189] 01 p0124 N84-10811
Block iterative methods for elliptic finite element equations
[AD-A129150] 01 p0129 N84-10841
On the superlinear Ambrosetti-Prodi problem
[AD-A130574] 01 p0130 N84-10849
On the application of optical signal processing to the solution of Riccati equations
[AD-A130710] 01 p0133 N84-10869
Specification for a Program for an Interative Aeroelastic Solution (PIAS)
[NASA-CR-172200] 04 p0479 N84-13153
Application of the implicit Fourier-expansion method to the calculation of three-dimension equilibria by the iterative method
[DE83-017621] 04 p0590 N84-13902
More results on the convergence of iterative methods for the symmetric linear complementarity problem
[AD-A132663] 05 p0738 N84-14846
Iterative techniques for the solution of elliptic finite difference equations 06 p0835 N84-15435
Iterative solution of the finite difference potential equations for subsonic and transonic flows 06 p0835 N84-15436
Finite element methods for potential flows 06 p0835 N84-15437
A survey of solution techniques for nonlinear finite element equations
[NLR-MP-82027-U] 06 p0903 N84-15861
Least-square iterative techniques for solving integral equations
[PB83-166751] 06 p0903 N84-15864
Optimal estimation with chaotic dynamics 07 p1060 N84-16874
Solution methods for large sparse linear systems
[AD-A134529] 07 p1062 N84-16885
Note on subharmonic solutions of a Hamiltonian vector field
[AD-A134537] 07 p1062 N84-16890
On iterative procedures of asymptotic inference
[MC-SW-84/83] 07 p1064 N84-16905
A multigrid method and a combined multigrid-conjugate gradient method for elliptic problems with strongly discontinuous coefficients in general domains
[PUBL-604-REV] 08 p1222 N84-17980
Using interval methods for the numerical solution of ODE'S (Ordinary Differential Equations)
[AD-A136373] 09 p1374 N84-18972
Multigrid methods for boundary integral equations
[NLR-MP-82059-U] 09 p1379 N84-19011
General Electromagnetic Model for the Analysis of Complex Systems (GEMACS) user manual (version 3), volume 1
[AD-A137461] 10 p1480 N84-19669
General Electromagnetic Model for the Analysis of Complex Systems (GEMACS) engineering manual (version 3), volume 2
[AD-A137462] 10 p1480 N84-19670
General Electromagnetic Model for the Analysis of Complex Systems (GEMACS) engineering manual (version 3), volume 3
[AD-A137463] 10 p1480 N84-19671
General Electromagnetic Model for the Analysis of Complex Systems (GEMACS) computer code documentation (version 3), volume 3, part 2
[AD-A137464] 11 p1644 N84-20750
Scattering and depolarization of electromagnetic waves-full wave solutions
[AD-A138340] 12 p1807 N84-21782
Solution techniques in finite element analysis
[AD-A139552] 14 p2158 N84-23931
A device for the acceleration of convergence of a monotonously enclosing iteration method 16 p2541 N84-26307
Conjugate gradient coupled with multigrid for an indefinite problem
[NASA-CR-172379] 19 p3082 N84-29558
Applications of the variational integral in iterative numerical solutions to the stationary heat equations
[AD-A141091] 19 p3083 N84-29563
A maximum principle for an elliptic system and applications to semilinear problems
[AD-A141600] 19 p3085 N84-29581
Optimization of a numerical method to calculate elliptic flows
[DFVLR-FB-84-16] 20 p3167 N84-30252
A comparison of the efficiency of numerical methods for integrating chemical kinetic rate equations 21 p3355 N84-31280
High-order sparse factorization methods for elliptic boundary value problems
[DE84-012582] 22 p3646 N84-33122

IUE
An atlas of UV spectra of supernovae
[ESA-SP-1046] 15 p2424 N84-25563
IUE low dispersion spectra reference atlas. Part 1: Normal stars
[ESA-SP-1052-PT-1] 16 p2576 N84-26531
Performance of the IUE spacecraft batteries after 70 months 23 p3738 N84-33692
Fourth European IUE Conference
[ESA-SP-218] 24 p3970 N84-35135
Ultraviolet studies of the interstellar medium 24 p3970 N84-35137
Supernovae — IUE observations 24 p3970 N84-35138
Corona models tested with IUE and Einstein observations 24 p3970 N84-35139
IUE impact on the studies of the Zeta Aur, Algol and W Ser interacting binary systems 24 p3971 N84-35142
Study of hot spot galaxies 24 p3971 N84-35143
Far UV excess and gas content of SO galaxies 24 p3971 N84-35144
Ultraviolet study of the stellar population of the giant extragalactic HII region NGC 604 24 p3971 N84-35145
The broad absorption line region in NGC 4151 24 p3971 N84-35146
The Seyfert 1 galaxy NGC 4593 (3). Very rapid variations of its far UV spectrum and their implications 24 p3971 N84-35147
IUE observations of multiple nucleus galaxies 24 p3971 N84-35148
Use of high resolution IUE spectra of MG 2 in cool stars to probe the local interstellar medium 24 p3973 N84-35156
The diffuse interstellar medium in the Magellanic clouds (review) 24 p3974 N84-35163
A model of the planetary nebula NGC 3918 based on IUE observations 24 p3978 N84-35195
Search for exotic molecules in bright comets 24 p3981 N84-35222
The International Ultraviolet Explorer (IUE): Six years in orbit 24 p3981 N84-35224
Standard stars: Automatic line identification of IUE high resolution spectra 24 p3981 N84-35225
IUE data reduction facilities on Starlink 24 p3982 N84-35226
The NASA IUE data analysis facilities 24 p3982 N84-35227
IUE integrated spectra of galactic globular clusters 24 p3982 N84-35230
Search for the radiative decay of a cosmic relic particle with IUE 24 p3982 N84-35231

IUS
U INERTIAL UPPER STAGE

IZSAK ELLIPSOID
U ELLIPSOIDS
U GEODESY

J

J INTEGRAL
Effect of specimen geometry on stable crack growth by nonlinear material behavior
[GKSS-83-E-38] 10 p1483 N84-19554
J-integral tearing instability analysis for 8-inch diameter ASTM A106 steel pipe
[AD-A142589] 20 p3153 N84-30023
Crack tip field and fatigue crack growth in general yielding and low cycle fatigue
[NASA-CR-174686] 22 p3554 N84-32503

JACKETS
Fuel fire tests of the helicopter crewman jacket
[AD-A140037] 15 p2385 N84-25302

JACKING EQUIPMENT
U JACKS (LIFTS)

JACKS (ELECTRICAL)
U ELECTRIC CONNECTORS

JACKS (LIFTS)
Retraction and lowering of the mirage undercarriage
[AD-A137791] 11 p1606 N84-20518

JACOBI MATRIX METHOD
Can Leontief and P-matrices be rescaled positive definite
[DE84-004802] 12 p1897 N84-22355

JAGUAR AIRCRAFT
Certification experience of the Jaguar fly-by-wire demonstrator aircraft integrated flight control system 06 p0777 N84-15095

JAHN-TELLER EFFECT
Supersonic metal cluster beams
[DE84-012976] 22 p3556 N84-32516

JAMAICA
Cenozoic tectonics of the Caribbean: Structural and stratigraphic studies in Jamaica and Hispaniola 13 p2013 N84-23062

JAMMERS
An analysis of coherent digital receivers in a jamming environment
[AD-A144441] 24 p3895 N84-34667

JAMMING
Generalized list detection for coded MFSK/FH signaling on ading and jamming channels
[AD-A130199] 01 p0063 N84-10414
Issues critical to the application of adaptive array antennas to missile seekers
[AD-A133401] 06 p0824 N84-15371
Adaptive arrays for multiple simultaneous desired signals
[AD-A133486] 06 p0824 N84-15373
Adaptive protection of detecion systems operating by spread spectrum 06 p0868 N84-15652
Contending with jamming in decametric waves in an adaptive system of all-directional antennas 06 p0868 N84-15653
A minimax theorem for antijamming group codes
[DFVLR-FB-83-30] 06 p0906 N84-15879
Jam-resistant speech encoding
[AD-A134707] 08 p1145 N84-17448
Capacity of mismatched Gaussian channels
[AD-A134982] 08 p1145 N84-17455
Interference measurements on amplitude compandored single sideband (ACSB) land mobil radio
[PB84-123845] 10 p1484 N84-19702
Global positioning system satellite selection evaluation for aided inertial navigation
[AD-A138070] 12 p1767 N84-21527
Research Trends in Military Communications
[AD-A138229] 13 p1975 N84-22821
Spread spectrum communication in jamming 13 p1976 N84-22827
Jam-resistant tactical communications 13 p1976 N84-22828
Applications of coding to spread spectrum communications 13 p1976 N84-22829
Trends in convolutional coding 13 p1976 N84-22830
Spread spectrum networks 13 p1977 N84-22831
Spread spectrum data networks 13 p1977 N84-22832
Generalized adaptive node concept 13 p1977 N84-22833
Worldwide report: Telecommunications policy, research and development
[JPRS-TTP-84-005] 15 p2327 N84-24971
International law gives states right to jam foreign radio broadcasts 15 p2327 N84-24972
List metric detection of coded FH/MFSK (Frequency-Hopped Multiple Frequency Shift Keying) in a tone jamming environment
[AD-A142358] 20 p3174 N84-30153
Computer analysis of phased array far-field patterns for non-symmetrical feed networks
[AD-P003502] 21 p3383 N84-31470
Effect of spatial decorrelation on nulling performance of linear adaptive array
[AD-A143013] 21 p3400 N84-31570
Radio frequency distribution assembly
[AD-A143575] 22 p3577 N84-32658
Cascaded adaptive loops
[AD-D011116] 22 p3580 N84-32674
An analysis of coherent digital receivers in a jamming environment
[AD-A144441] 24 p3895 N84-34667
Millimeter wave communications
[AD-A144636] 24 p3895 N84-34669

JAPAN
ONR Far East Scientific Bulletin. Volume 8, no. 3, July - September 1983
[AD-A134272] 06 p1240 N84-18109
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Kadena AB, Japan
[AD-A140249] 16 p2531 N84-26249
Optimum density structure of upper mantle along Japan - Shatsky Rise - Emperor Sea mounts geotraverse
17 p2704 N84-27220
Japanese research institutes funded by private corporations
[AD-A140892] 17 p2772 N84-27600
National Aerospace Laboratory, 1982
19 p2969 N84-28813
Report of the geomagnetic and geoelectric observations, 1982 (rapid variations)
[KMO-23] 20 p3240 N84-30567
Derivation of crustal magnetic anomalies from MAGSAT
[REPT-609] 20 p3240 N84-30569
Flight service evaluation of two aluminum-brazed titanium spoilers
[NASA-CR-172371] 21 p3364 N84-31343
Data Report. Low Temperature Science. Series A: Physical Sciences
[ISSN-0385-9683] 23 p3762 N84-33842
Report of pit-wall observations of snow cover in Sapporo, 1982 - 1983
23 p3762 N84-33843
Snow cover observations at Avalanche Research Station, Tolkanbetsu, northern Hokkaido, 15 (1982-1983 winter)
23 p3762 N84-33844
Radiation measurement of snowy season in 1982-1983 at Sapporo
23 p3762 N84-33845
Distribution of pack ice of Okhotsk Sea coast of Hokkaido observed with sea ice radar network, January-April 1983
23 p3762 N84-33846
A scientific visit to the Institute of Polar Study of Japan
[INPE-3161-NTE/221] 23 p3801 N84-34097
The Karman vortex street detected by the geostationary meteorological satellite Himawari
24 p3921 N84-34817

JAPANESE SPACE PROGRAM
Fine pointing control of the solar UV telescope on the sounding rocket S-520-5
[ISAS-608] 06 p0938 N84-16094
Operational status of the LANDSAT-5 ground station
10 p1523 N84-19976
Proceedings of the Symposium on Mechanics for Space Flight
[ISAS-SP-2] 20 p3168 N84-30114
Meteorological Satellite Center Technical Note no. 9, 1984
[ISSN-0388-9653] 24 p3921 N84-34816
Introduction to the International Satellite Cloud Climatology Project (ISCCP) 24 p3922 N84-34822

JAPANESE SPACECRAFT
GMS observations of Typhoon 8205, 8212, 8213
23 p3800 N84-34092

JARRING
U MECHANICAL SHOCK

JC-130 AIRCRAFT
U C-130 AIRCRAFT

JEEPS
U AUTOMOBILES

JET AIRCRAFT
NT A-6 AIRCRAFT
NT A-7 AIRCRAFT
NT A-300 AIRCRAFT
NT ALPHA JET AIRCRAFT
NT B-52 AIRCRAFT
NT BOEING 707 AIRCRAFT
NT BOEING 727 AIRCRAFT
NT BOEING 737 AIRCRAFT
NT BOEING 747 AIRCRAFT
NT C-5 AIRCRAFT
NT C-9 AIRCRAFT
NT C-135 AIRCRAFT
NT C-140 AIRCRAFT
NT C-141 AIRCRAFT
NT CONCORDE AIRCRAFT
NT CV-990 AIRCRAFT
NT DC 10 AIRCRAFT
NT EUROPEAN AIRBUS
NT F-4 AIRCRAFT
NT F-8 AIRCRAFT
NT F-14 AIRCRAFT
NT F-15 AIRCRAFT
NT F-16 AIRCRAFT
NT F-18 AIRCRAFT
NT F-106 AIRCRAFT
NT F-111 AIRCRAFT
NT IL-62 AIRCRAFT
NT JETSTREAM AIRCRAFT
NT L-1011 AIRCRAFT
NT LEAR JET AIRCRAFT
NT MIRAGE AIRCRAFT
NT OV-1 AIRCRAFT
NT P-3 AIRCRAFT
NT T-2 AIRCRAFT
NT T-38 AIRCRAFT
NT TURBOFAN AIRCRAFT
NT TURBOPROP AIRCRAFT
NT U-2 AIRCRAFT
An-32 transportation aircraft, USSR
[AD-A131013] 01 p0008 N84-10050
Acta Aeronautica et Astronautica Sinicia (selected articles)
[AD-A137150] 11 p1599 N84-20475
Application of near-term technology to a Mach 2.0 variable-sweep-wing, supersonic-cruise executive jet
[NASA-CR-172321] 14 p2104 N84-23621
Requirements, applications, and results of strapdown inertial technology to commercial airplanes
16 p2447 N84-25695
Windshield problems on UK operated transport sized jet aircraft 1976 to 1982
[AD-P003228] 17 p2596 N84-26841
Minimum-fuel, 3-dimensional flightpath guidance of transfer jets
[NASA-TP-2326] 22 p3537 N84-32394

JET AIRCRAFT NOISE
Inverted velocity profile semi-annular nozzle jet exhaust noise experiments
[NASA-TM-83525] 04 p0595 N84-13924
Apparatus and method for jet noise suppression
[NASA-CASE-LAR-11903-2] 05 p0742 N84-14873
Fluid shielding of high-velocity jet noise
[NASA-TP-2259] 06 p0907 N84-15894
Analytical study of the twin-jet shielding
[NASA-CR-175357] 07 p1069 N84-16943
Analysis of some acoustics-jet flow interaction problems
[NASA-CR-175340] 07 p1069 N84-16944
Suppression of peak noise by reshaping coaxial flow circumferentially under static conditions
[NAL-TR-770] 09 p1386 N84-19053
Investigation of the acoustic characteristics of aircraft/engines operating in a dry-cooled jet engine maintenance test facility 10 p1513 N84-19901
Low frequency noise in a quiet, clean, general aviation turbofan engine
[NASA-TM-83520] 10 p1575 N84-20320
Experimental investigation of shock-cell noise reduction for dual-stream nozzles in simulated flight comprehensive data report. Volume 1: Test nozzles and acoustic data
[NASA-CR-168336-VOL-1] 14 p2220 N84-24323
Experimental investigation of shock-cell noise reduction for dual-stream nozzles in simulated flight comprehensive data report. Volume 2: Laser velocimeter data, static pressures and shadowgraph photos
[NASA-CR-168336-VOL-2] 14 p2220 N84-24324
Effects of simulated flight on the structure and noise of underexpanded jets
[NASA-TP-2308] 15 p2403 N84-25422
Computation of noise radiating from a free jet perpendicular to its axis via laser anemometry measurements
[ONERA-NT-1983-6] 16 p2554 N84-26387
Narrowband (LPC-10) vocoder performance under combined effects of random bit errors and jet aircraft cabin noise
[AD-A141333] 18 p2830 N84-27967
Response of a plaster-wood room subjected to simulated sonic booms
[UTIAS-276] 21 p3421 N84-31701
Supersonic jet shock noise reduction
[NASA-TM-83799] 24 p3961 N84-35085

JET AIRSTREAMS
U JET STREAMS (METEOROLOGY)

JET AUGMENTED WING FLAPS
U JET FLAPS
U WING FLAPS

JET CONTROL
Afterbody propulsor performance validation for A 2.65 fineness ratio body advanced tactical vehicle
[AD-A131259] 01 p0080 N84-10517
High altitude maneuver control tests in the NSWC (Naval Surface Weapons Center) hypervelocity wind tunnel
[AD-A136105] 09 p1253 N84-18178

JET DAMPING
U DAMPING
U SPIN REDUCTION

JET DRIVE
U JET PROPULSION

JET ENGINE FUELS
NT JP-4 JET FUEL
NT JP-5 JET FUEL
Refining of military jet fuels from shale oil. Part 4. Process computer modeling studies
[AD-A129891] 01 p0052 N84-10334
A statistical examination of the effect of composition on the freezing points of hydro-carbon mixtures
[AD-A131000] 02 p0203 N84-11321
A jet fuel starter for lowest system life cycle cost
03 p0335 N84-12179
Antimisting fuel breakup and flammability
[NASA-CR-174508] 07 p0981 N84-16354
Effects of broadened property fuels on radiant heat flux to gas turbine combustor liners
[NASA-TM-83537] 07 p1001 N84-16494
Aviation-fuel property effects on combustion
[NASA-CR-168334] 08 p1139 N84-17407
Electron spin resonance study of thermal instability reactions in jet fuels
[NASA-CR-168333] 09 p1289 N84-18418
Experimental results for the rapid determination of the freezing point of fuels
[NASA-CR-168305] 09 p1290 N84-18419
Applications of photoacoustic techniques to the study of jet fuel residue
[NASA-CR-173322] 09 p1290 N84-18420
The relationship between electrical conductivity and temperature of aviation turbine fuels containing static dissipator additives
[AD-A135751] 09 p1290 N84-18421
Toxic Hazards Research Unit report, 1983
[AD-A136170] 09 p1362 N84-18896
Microbial deterioration of hydrocarbon fuels from oil shale, coal and petroleum. III: Inhibition of fungi by fuels from coal
[AD-A137177] 10 p1489 N84-19596
Heat transfer and thermal stability of alternative aircraft fuels. Volume 2: Appendices
[AD-A137405] 10 p1489 N84-19598
Fuel system O-ring leaks on post P.D.M. (Programmed Depot Maintenance) C-5A aircraft
[AD-A137885] 11 p1606 N84-20519
Fuel effects on gas turbine engine combustion
[AD-A138385] 12 p1803 N84-21753
An industrial hygiene evaluation of F-16 aircraft refueling inside closed aircraft shelters
[AD-A138501] 12 p1866 N84-22157
Assessment of Alternative Aircraft Fuels
[NASA-CP-2307] 14 p2106 N84-23630
Trends of jet fuel demand and properties
14 p2106 N84-23631
The effect of property changes on jet fuel producibility and cost
14 p2106 N84-23632
Influence of fuel chemical properties on gas turbine combustors
14 p2107 N84-23634
NASA broad-specification fuels combustion technology program
14 p2107 N84-23637
The NASA broad specification fuels combustion technology program at Pratt and Whitney
14 p2108 N84-23640
Fuel system research and technology: An overview of the NASA program
14 p2108 N84-23641
Research on aviation fuel instability
14 p2108 N84-23642
Analysis of fuel system technology for broad property fuels
14 p2108 N84-23644
Fuel system design concepts for broad property fuels
14 p2109 N84-23645
Economic impact of fuel properties on turbine powered business aircraft
14 p2109 N84-23646
Fuel property effects on Navy aircraft fuel systems
14 p2109 N84-23647
Degradation of jet fuel hydrocarbons by aquatic microbial communities
[AD-A139791] 15 p2304 N84-24822
Electrical spray modification with various fuels in a T56 combustor
[AD-A139961] 15 p2304 N84-24824
Comparison of JFTOT (Jet Fuel Thermal Oxidation Tester) and absorbance methods for determining jet fuel thermal stability
[AD-A138673] 15 p2304 N84-24825
FY 1985 technical objective document
[AD-A140581] 17 p2770 N84-27586
Computer analysis of effects of altering jet fuel properties on refinery costs and yields
[NASA-CR-174642] 18 p2820 N84-27906
Kinetic-elastic approach for time-dependent rheological data on slurry fuels and polymers
[AD-A141210] 18 p2821 N84-27911
Fuel effects on soot formation in turbojet engines
[AD-A141287] 18 p2821 N84-27912
Basic study of fuel storage stability
[AD-A142194] 19 p2966 N84-28790
Organic azides as jet fuel additives: Synthesis of azides and micro-explosion characteristics of droplets
20 p3144 N84-29963

Aviation fuels, 1983
[DE84-011823] 20 p3166 N84-30106
Characterization and degradation studies on synthetic polymers for aerospace application
[NASA-CR-166597] 21 p3355 N84-31284
Carbon-13 and proton nuclear magnetic resonance analysis of shale-derived refinery products and jet fuels and of experimental referee broadened-specification jet fuels
[NASA-CR-174761] 22 p3581 N84-32552
FTIR analysis of aviation fuel deposits
[NASA-TM-83773] 23 p3726 N84-33606
Method for evaluation of petroleum products corrosivity using piezoelectric crystals, part 1 — jet engine fuel corrosion tests
[FOA-C-40189-B4-PT-1] 23 p3726 N84-33611
Investigation of thermal coking rates of Air Force jet fuels
[AD-A144421] 24 p3890 N84-34631

JET ENGINES
NT BRISTOL-SIDDELEY BS 53 ENGINE
NT RAMJET ENGINES
NT SUPERSONIC COMBUSTION RAMJET ENGINES
NT TF-41 ENGINE
NT TURBOFAN ENGINES
NT TURBOJET ENGINES
NT TURBOPROP ENGINES
Aircraft Electric Secondary Power
[NASA-CP-2282] 01 p0009 N84-10055
Secondary electric power generation with minimum engine bleed 01 p0010 N84-10059
Primary electric power generation systems for advanced-technology engines 01 p0010 N84-10060
Installation of electric generators on turbine engines 01 p0010 N84-10061
Study of noise-certification standards for aircraft engines. Volume 1: Noise-control technology for turbofan engines
[AD-A133366] 06 p0790 N84-15157
A real-time, portable, microcomputer-based jet engine simulator
[NASA-TM-83550] 07 p1052 N84-16812
Suppression of peak noise by reshaping coaxial flow circumferentially under static conditions
[NAL-TR-770] 09 p1386 N84-19053
International aviation (selected articles)
[AD-A137617] 11 p1599 N84-20473
Study of noise-certification standards for aircraft engines. Volume 3: Selection and evaluation of engine-noise-certification concept
[AD-A137805] 11 p1614 N84-20583
Laboratory evaluation of novel particulate control concepts for jet engine test cells
[AD-A137641] 11 p1620 N84-20603
Erosion of corrosion resistant coatings for jet engine compressors
[NLR-MP-83010-U] 12 p1771 N84-21550
Preliminary investigation of a two-zone swirl flow combustor
[NASA-TM-83637] 13 p1932 N84-22565
Engine affordability — aircraft engines
[PNR-90178] 13 p1933 N84-22574
The future for titanium and superalloys — in aircraft engines
[PNR-90175] 13 p1961 N84-22742
Manufacturing influence of design and its importance to successful automation — aircraft engines
[PNR-90189] 13 p1975 N84-22814
Nonlinear/transient rotor dynamics analysis 13 p2000 N84-22977
Experience in engine face, non-steady, flow measurements through a side and bottom engine air inlet duct 14 p2100 N84-23600
The NASA broad specification fuels combustion technology program at Pratt and Whitney 14 p2108 N84-23640
Research on aviation fuel instability 14 p2108 N84-23642
Application of rapidly solidified superalloys
[AD-A130350] 14 p2127 N84-23755
Thermal energy recovery in gas turbine engine test cells
[AD-A139457] 14 p2172 N84-24009
The transfer function model: A computer program for determination of jet engine test cell exhaust particulates and opacity
[AD-A139222] 14 p2173 N84-24017
An investigation into anti-swirl devices for s-shaped air intakes
[BU-293] 15 p2256 N84-24549
Preliminary flight test results of the F100 EMD engine in an F-15 airplane
[NASA-TM-85902] 15 p2262 N84-24588
Operation and performance measurement on engines in sea-level test facilities: Introduction and general survey 16 p2452 N84-25724
Aero/thermodynamic and acoustic considerations in the design of test-beds for turbojets and turbofans 16 p2452 N84-25725
Instrumentation techniques in sea level test facilities 16 p2453 N84-25727
Performance derivation of turbojets and turbofans from tests in sea-level test cells 16 p2453 N84-25728
Testing of turboshaft engines 16 p2453 N84-25729
Diffuser/ejector system for a very high vacuum environment
[NASA-CASE-MRS-25791-1] 18 p2797 N84-27749
Basic study of fuel storage stability
[AD-A142194] 19 p2966 N84-26799
Cost/risk analysis for disk retirement, volume 1
[AD-A141978] 20 p3131 N84-29881
A data acquisition and real-time display system for testing a jet engine compressor
[AD-A142696] 20 p3197 N84-30301
Interactive finite elements for general engine dynamics analysis 21 p3421 N84-31698
Economic use of CBN grinding tools in the production of jet turbine components
[CSIR-TRANS-1736] 22 p3563 N84-32561
An experimental investigation of an underexpanded rectangular jet ejector 23 p3688 N84-33374

JET EXHAUST
Turbine engine exhaust hydrocarbon analysis, tasks 1 and 2
[AD-A131522] 01 p0012 N84-10074
Thrust-induced effects on subsonic longitudinal aerodynamic characteristics of a vectored-engine-over-wing configuration
[NASA-TP-2228] 04 p0481 N84-13163
Fully-coupled analysis of jet mixing problems. Part 1. Shock-capturing model, SCIPVIS
[NASA-CR-3761] 06 p0834 N84-15425
Fluid shielding of high-velocity jet noise
[NASA-TP-2259] 06 p0907 N84-15894
Particle sizing in a fuel-rich ramjet combustor
[AD-A135632] 09 p1257 N84-18204
Aircraft generation equipment emissions estimator (AGEEE)
[AD-A136829] 10 p1532 N84-20031
Thermal energy recovery in gas turbine engine test cells
[AD-A139457] 14 p2172 N84-24009
Ground based testing without wind tunnels 16 p2437 N84-25834
Velocity and temperature characteristics of two-stream, coplanar jet exhaust plumes
[NASA-TM-83730] 19 p2965 N84-28790
Real jet effects on dual jets in a crossflow
[NASA-CR-173817] 19 p3022 N84-29161
Analysis of particulates in the exhaust plume of a TF30 engine at military power
[AD-A142510] 20 p3131 N84-29882

JET FLAMES
U FLAMES
U JET FLOW

JET FLAPS
A numerical study of the controlled flow tunnel for a high lift model
[NASA-CR-166572] 16 p2438 N84-25642
A numerical study of the controlled flow tunnel for a high lift model 16 p2452 N84-25721

JET FLIGHT
U JET AIRCRAFT

JET FLOW
NT AIR JETS
NT SUPERSONIC JET FLOW
Space shuttle orbiter reaction control subsystem flight data anomalies 01 p0021 N84-10131
A finite element analysis of the upper jet region of a fiber drawing flow field 02 p0218 N84-11425
The performance of small jet noise silencers for industrial applications
[PB83-234047] 02 p0230 N84-11507
Correlation of flight effects on centerline velocity decay for cold-flow acoustically excited jets
[NASA-TM-83502] 02 p0287 N84-11883
Research on nonsteady flow induction
[AD-A133894] 05 p0680 N84-14468
The effects of external and self excitations on axisymmetric jet turbulence and noise 05 p0743 N84-14878
The AMTE/OUEL underwater jet noise rig
[OUEL-1491/83] 07 p1070 N84-16953
Experimental investigation of the turbulent axisymmetric jet 08 p1155 N84-17518
Laser diagnostic development and measurement and modeling of turbulent flowfields of jets and wakes. Part 1: Two-dimensional laser Doppler anemometer studies of isothermal flowfield in a ducted centerbody combustor
[AD-A134691] 08 p1158 N84-17542
Laser diagnostic development and measurement and modeling of turbulent flowfields of jets and wakes. Part 2: Numerical predictions of isothermal flowfields in a ducted centerbody combustor
[AD-A134692] 08 p1159 N84-17543
Laser diagnostic development and measurement and modeling of turbulent flowfields of jets and wakes. Part 3: The development of a 2-channel CW Time-Resolved Laser Raman Spectroscopy (TiLaRS) system for measurements in gas flowfields
[AD-A134693] 08 p1159 N84-17544
Effects of blowing spanwise from the tips of low-aspect ratio wings of varying taper ratio, with application to improving STOL capability of fighter aircraft
[AD-A135688] 09 p1252 N84-18175
Pneumatic atomisation with coaxial injectors: Measurements of drop size by diffraction method and liquid phase fraction by attenuation method
[NAL-TR-766] 09 p1312 N84-18574
Stability of compressible wake and jet flows
[AD-A136541] 09 p1314 N84-18589
An empirical method for predicting the mixing noise levels of subsonic circular and coaxial jets
[NASA-CR-3786] 09 p1385 N84-19048
On transit time instability in liquid jets
[NASA-TM-77455] 10 p1490 N84-19742
Flow generation in a novel centrifugal diffuser test device
[AD-A136874] 10 p1492 N84-19754
Free stream turbulence and density ratio effects on the interaction region of a jet in a cross flow 11 p1611 N84-20546
Backward moving Altarelli-Parisi equations for transverse momentum calculations in jets
[ILL-(TH)-84-10] 11 p1712 N84-21164
Laser Doppler velocimetry measurements of mean velocity and turbulent stress tensor components in a free isothermal swirling jet
[UTIAS-281] 12 p1815 N84-21830
Numerical simulation of the flow of a chemical contaminant subjected to a jet impingement
[AD-P002936] 14 p2196 N84-24176
An investigation of the interaction between multiple dilution jets and combustion products 15 p2292 N84-24758
An experimental and analytical study of spray flow fields formed by liquid/gas coaxial injector elements
[NAL-TR-745] 15 p2331 N84-24997
On modeling dilution jet flowfields
[NASA-TM-83708] 16 p2450 N84-25713
Analytical description of hypersonic gas jet discharged into motionless medium or into supersonic companion stream 17 p2644 N84-26914
Supersonic three-dimensional jet flow in channel 17 p2646 N84-26928
Compressible flows of jets and cavities
[PREPRINT-637] 17 p2669 N84-27022
Supercritical regimes in Rossby wave propagation 17 p2700 N84-27197
Dilution jets in accelerated cross flows
[NASA-CR-174717] 19 p2966 N84-28794
Real jet effects on dual jets in a crossflow
[NASA-CR-173817] 19 p3022 N84-29161
Lubricant jet flow phenomena in spur and helical gears with modified center distances and/or addendums for out-of-mesh conditions
[NASA-TM-83723] 19 p3031 N84-29224
A theoretical and experimental study of turbulent nonevaporating sprays
[NASA-CR-174668] 20 p3130 N84-29877
Investigation of parameters influencing the deflection of a thick wall jet by a thin wall jet coflowing over a rounded corner
[AD-A142773] 21 p3325 N84-31099
Transition from laminar to turbulent flow under action of acoustic vibrations 21 p3480 N84-32056
Propagation of gas jet in liquid 21 p3480 N84-32057
Turbulence characteristics of swirling flowfields 23 p3687 N84-33371
Heat transfer from a circular cylinder due to a slot jet impingement 23 p3746 N84-33747
Control of jet flowfield dynamics
[AD-A143631] 23 p3746 N84-33750

JET FUELS
U JET ENGINE FUELS

JET IMPINGEMENT
JANNAF Handbook: Rocket exhaust plume technology. Chapter 6: Spacecraft plume contamination
[AD-A131689] 05 p0644 N84-14236
Reattachment of a three-dimensional, incompressible jet to an adjacent axisymmetric inclined surface
[AD-A136288] 09 p1314 N84-18584
Numerical simulation of the flow of a chemical contaminant subjected to a jet impingement
[AD-P002936] 14 p2196 N84-24176

Empirical relations for cavitation and liquid impingement erosion processes
[NASA-TP-2339] 21 p3365 N84-31349
Heat transfer from a circular cylinder due to a slot jet impingement 23 p3746 N84-33747

JET LAG
USSR report: Life sciences. Biomedical and behavioral sciences
[JPRS-UBB-84-018] 22 p3629 N84-32996
Pilot jet lag experiments described 22 p3629 N84-32997

JET MIXING FLOW
Numerical procedure for an inviscid stability analysis of an axisymmetric jet
[PB83-224071] 01 p0063 N84-10537
Investigation of axisymmetric confined turbulent jet mixing in the near region with adverse pressure gradient 04 p0478 N84-13148
Fully-coupled analysis of jet mixing problems. Part 1. Shock-capturing model, SCIPVIS
[NASA-CR-3761] 06 p0834 N84-15425
Time dependent, compressible simulations of shear flows: Tests of outflow boundary conditions
[AD-A136410] 09 p1314 N84-18587
An experimental study of thrust augmenting ejectors
[AD-A136929] 10 p1492 N84-19757
Preliminary investigation of a two-zone swirl flow combustor
[NASA-TM-83637] 13 p1932 N84-22565
Vortex motion in a precombustion chamber with intersecting jets
[AD-A139040] 13 p1956 N84-22717
Mixing of swirling flows and behavior of wet flows
[AD-A138697] 13 p1989 N84-22915
An investigation of the interaction between multiple dilution jets and combustion products 15 p2292 N84-24758
Computational modeling of jet induced mixing of cryogenic propellants in low-G
[NASA-TM-83703] 15 p2331 N84-25000
Effects of simulated flight on the structure and noise of underexpanded jets
[NASA-TP-2308] 15 p2403 N84-25422
Multi-length scale turbulence models
[AD-A140527] 16 p2493 N84-25997
Dilution jet mixing program
[NASA-CR-174624] 17 p2609 N84-26702
Analytical description of hypersonic gas jet discharged into motionless medium or into supersonic companion stream 17 p2644 N84-26914
Interaction of jet discharged from container and opposing supersonic stream of rarefied gas 17 p2644 N84-26917
Development of a 2-dimensional turbulent jet under natural and excited conditions 17 p2666 N84-26997
High speed ejectors
[AD-A141562] 18 p2796 N84-27741
Dilution jets in accelerated cross flows
[NASA-CR-174717] 19 p2966 N84-28794
Propagation of gas jet in liquid 21 p3480 N84-32057
Computational modelling of jet induced mixing in cryogenic propellant tanks in low-g 23 p3745 N84-33742

JET NOISE
U JET AIRCRAFT NOISE

JET NOZZLES
Bubbles rising in a tube and jets falling from a nozzle
[AD-A139266] 14 p2145 N84-23858
User's guide to the NOZL3D and NOZLIC computer programs
[NASA-CR-159173] 19 p3020 N84-29150
Lubricant jet flow phenomena in spur and helical gears with modified center distances and/or addendums for out-of-mesh conditions
[NASA-TM-83723] 19 p3031 N84-29224

JET PILOTS
U AIRCRAFT PILOTS

JET PROPULSION
Application of advanced control techniques to aircraft propulsion systems 11 p1618 N84-20590
Propulsion control technology 11 p1619 N84-20600
Advanced prediction technique for the low speed aerodynamics of V/STOL aircraft. Volume 1: Technical discussion
[NASA-CR-166442-VOL-1] 17 p2600 N84-26662
Advanced prediction technique for the low speed aerodynamics of V/STOL aircraft. Volume 2: User's manual
[NASA-CR-166442-VOL-2] 17 p2600 N84-26663

JET STAR AIRCRAFT
U C-140 AIRCRAFT

JET STREAMS (METEOROLOGY)
Baroclinic instability of atmospheric jets 06 p0877 N84-15704
A comparison study of the energetics of standing and transient eddies between two general circulation models: The GLAS Climate Model and the NCAR Community Climate Model 06 p0880 N84-15726
Dynamics of freely ascending convective jets initiated by active admixture 11 p1669 N84-20893
Measurements of coefficient of turbulent diffusion in middle-latitude strato- and mesosphere 11 p1670 N84-20894
Jet stream related observations by MST radars 17 p2682 N84-27078

JET THRUST
Space shuttle orbiter reaction control subsystem flight data anomalies 01 p0021 N84-10131
Ground based testing without wind tunnels 16 p2437 N84-25634
Aerodynamics of V/STOL aircraft: Performance assessment 16 p2437 N84-25635
Notes on special flight aspects, such as STO, ski-jump and ODM 16 p2437 N84-25637

JETAVATORS
U GUIDE VANES

JETS
Jet production and high p/sub T/ phenomena in photon-photon reactions
[DE83-016397] 03 p0437 N84-12868
An analysis of the interaction between a submerged jet and a receiver-diffuser in a reverse-flow diverter
[DE83-012593] 04 p0536 N84-13521
Molecular jet study of aniline-helium van der Waals molecules and aniline radiationless relaxation in the 1-B sub 2 excited electronic state
[AD-A132726] 05 p0744 N84-14888
Effect of solid particles on the turbulent flow of a round gaseous jet: A mathematical and experimental study
[DE84-005830] 11 p1653 N84-20794
Nuclear processes in the jets of SS433
[NASA-TM-86109] 16 p2582 N84-26560

JETSTREAM AIRCRAFT
The effects of wing tip devices on the performance of the BAe Jetstream 03 p0326 N84-12130

JETTIES
U BREAKWATERS

JETTISON SYSTEMS
Crash Position Indicator/Crash Survivable Flight Data Recorder ejectable versus nonejectable
[AD-A132329] 04 p0484 N84-13184
The accelerated light model technique of store separation as developed and used at British Aerospace, Brough 14 p2099 N84-23597

JETTISONING
Separation and staging mechanisms for the Indian SLV-3 launch vehicle 15 p2349 N84-25095

JFET
The BJT-JFET: A novel merged device structure
[AD-A132373] 04 p0525 N84-13454
Low noise amplifier with a JFET inlet stage
[IFSI-83-8] 05 p0677 N84-14452
The development and fabrication of an implantable, multiplexed, semiconductor multielectrode array
[AD-A138788] 13 p1986 N84-22895
Advanced components for spaceborne infrared astronomy
[NASA-CR-166585] 17 p2671 N84-27025

JITTER
U VIBRATION

JOBS
U TASKS

JOINING
Testability of interconnection structures
[AD-A135431] 08 p1168 N84-17607
Silicon nitride joining
[AD-A136547] 09 p1287 N84-18404
Variable structure control of interconnected systems with applications to power systems
[DE84-006567] 12 p1892 N84-22321
Effect of interfacial bonding on the strength of adhesion of elastomers. 3: Interlinking by molecular entanglements
[AD-A138760] 13 p1963 N84-22757
Laser technology: Material for separating, joining and surface treating
[RKW-836] 16 p2497 N84-26019
Monolithic microwave integrated circuits: Interconnections and packaging considerations
[NASA-TM-83774] 21 p3382 N84-31461

JOINTS (ANATOMY)
NT WRIST

JOINTS (JUNCTIONS)
NT BEAM LEADS
NT BUTT JOINTS
NT LAP JOINTS
NT METAL JOINTS
NT SEAMS (JOINTS)
NT SOLDERED JOINTS
NT WELDED JOINTS
Proceedings of the 8th Annual Mechanics of Composites Review
[AD-A130750] 01 p0031 N84-10196
Evaluation of innovative concepts relating to prestressed concrete pavements, volume 5
[PB83-222349] 01 p0059 N84-10386
System identification of structures with joint rotation 03 p0358 N84-12330
Improving the fatigue performance of thick aluminum alloy bolted joints by hole cold-expansion and the use of interference-fit steel bushes
[ARL-STRUC-NOTE-486] 04 p0543 N84-13578
Theoretical basis for design of thermal-stress-free fasteners
[NASA-TP-2226] 04 p0548 N84-13614
Tape joint design guidelines
[DE84-002052] 05 p0688 N84-14522
Numerical methods for jointed media and structures 05 p0691 N84-14538
Nonlinear viscoelastic characterization of structural adhesives
[NASA-CR-172279] 06 p0809 N84-15268
Appropriate lengths between phalanges of multijointed fingers for stable grasping
[AD-A133448] 06 p0894 N84-15806
Distribution of unit pressures in universal spindle joint 08 p1165 N84-17588
Quality assurance of heat-fused polyethylene plastic pipe joints, phase 2
[PB84-104942] 08 p1168 N84-17606
Silicon nitride joining
[AD-A136547] 09 p1287 N84-18404
Viscoelastic analysis of adhesive stresses in bonded joints
[NASA-CR-173243] 09 p1288 N84-18411
Environmental durability of aluminum adhesive joints protected with hydration inhibitors
[AD-A135304] 09 p1288 N84-18412
Furnace brazing: A mass production method for producing high strength joints 09 p1292 N84-18434
Digitally-controlled adaptive welding system
[PB84-125285] 09 p1326 N84-18664
The use of interference-fit bolts or bushes and hole cold expansion for increasing the fatigue life of thick-section aluminium alloy bolted joints
[AR-002-973] 09 p1329 N84-18676
Durability and failure analyses of a silane treated Alpha-Al2O3/Polyethylene joint in wet environment
[AD-A136089] 09 p1333 N84-18705
Optimized bolted joint
[NASA-CASE-LAR-13250-1] 11 p1664 N84-20859
Factory splicing of optical waveguide fiber 11 p1720 N84-21222
Electromagnetic radiation and scattering from a system of conducting bodies interconnected by wires 13 p1984 N84-22882
Development of high strength braze joints in beryllium
[DE84-007243] 13 p1998 N84-22964
Strength of bolted joints in laminated composites 13 p2002 N84-22992
Economic riveting: Different bore qualities, fittings, connection elements 14 p2094 N84-23560
Three dimensional stress analysis of an artillery projectile joint
[AD-P002955] 14 p2199 N84-24195
Science of adhesion
[PB84-176734] 16 p2473 N84-25852
A rear engine without joints and pillows
[MBB-UD-383-83-O] 16 p2563 N84-26441
Development of an instrumented riser joint --- for offshore platforms stress measurement 17 p2629 N84-26818
Design of mechanical joints in composites 17 p2674 N84-27038
The stress distribution in pin-loaded orthotropic plates 17 p2678 N84-27059
A study of the stiffened tubular joints using finite element method 17 p2679 N84-27061
Finite element analysis of bonded joints
[AD-A140559] 17 p2680 N84-27068
Experimental stress analysis and fatigue tests of five 12-in NPS ANSI Standard B169 tees
[DE84-010280] 18 p2853 N84-28117
The inclusion of flexible joints in the stiffness method
[TT-8401] 18 p2854 N84-28122
Strength of bolted joints in laminated composites
[AD-A141826] 19 p2986 N84-28921
Joining silicon nitride based ceramics: A technical assessment
[DE84-011356] 20 p3164 N84-30092
Effects of bond deterioration on hysteretic behavior of reinforced concrete joints
[PB84-192020] 20 p3203 N84-30343
System identification of structures with joint rotation
[PB84-192210] 20 p3205 N84-30357

Multi-criteria approach to selection of optimal connections in large-scale integrated circuits
21 p3378 N84-31436
Foldable self-erecting joint — space erectable structures
[NASA-CASE-MSC-20635-1] 22 p3542 N84-32424
Compact broadband rectangular to coaxial waveguide junction
[AD-D011091] 22 p3587 N84-32716
Nonlinear elastic stability analysis of plane frames
22 p3607 N84-32853
Systematic jointing in the cardium sandstone along the Bow River, Alberta, Canada 22 p3620 N84-32937
Shoulder and hip joint for hard space suits and the like
[NASA-CASE-ARC-11534-1] 22 p3633 N84-33021
Bonding materials by gas-phase precipitation
23 p3709 N84-33512
Analysis of the double overlap fatigue specimen
[ARL-STRUC-REPT-402] 23 p3760 N84-33833
Mechanistic methodology for airport pavement design with engineering fabrics. Volume 1: Theoretical and experimental base
[DOT/FAA/PM-84-9.1] 24 p3857 N84-34450

JORDAN FORM
The Page Matrix: An excellent tool for noise filtering of Markov parameters, order testing and realization
[EUT-82-E-127] 10 p1489 N84-19735

JOSEPHSON JUNCTIONS
Is it superconductivity at 293 k?
[AD-A132545] 04 p0612 N84-14037
Applications of Josephson junction squids and arrays
[AD-A134114] 05 p0673 N84-14425
High sensitivity comparison of potential differences between two Josephson junctions
05 p0752 N84-14930
Thin film technology of high-critical-temperature superconducting electronics
[AD-A136722] 10 p1589 N84-20411
A far-infrared laser study of small-area superconducting tunnel junctions
[AD-A137186] 11 p1744 N84-21383
Observation of bistability in a Josephson device
14 p2235 N84-24409
Theory of multistability in Josephson junction devices
14 p2235 N84-24410
Dependence of properties of Josephson junctions at semiconductor surface on parameters of subsurface layer
18 p2825 N84-27936
Demonstration of SQUID (Superconducting QUantum Interference Device) parametric amplifier
[AD-A141326] 18 p2834 N84-27992
Development of integrated digital circuits with Josephson junctions
[BMFT-FB-T-84-044] 19 p3113 N84-29777
Josephson point contacts noise properties at microwave
22 p3569 N84-32602
Method for making Josephson junctions with contamination-free interfaces utilizing a ZNO contact insulator
[AD-D011057] 22 p3580 N84-32671

JOULE HEATING
U OHMIC DISSIPATION
U RESISTANCE HEATING

JOULE-THOMSON EFFECT
Cascade Joule-Thomson refrigerators
06 p0821 N84-15354
Low cost microminiature refrigerators for large unit volume applications
06 p0822 N84-15356

JOURNAL BEARINGS
Self excited oscillations in journal bearings
[AD-A130200] 01 p0090 N84-10585
Running stability of large rotor bearing foundation models
[ILR-MITT-124/1983] 12 p1823 N84-21887
Improved compliant hydrodynamic fluid journal bearing
[NASA-CASE-LEW-13670-1] 13 p1997 N84-22959
Development of a method for wear measurement of thermoplast journal bearings
[OEFZS-4271] 18 p2849 N84-28093
The Shock and Vibration Digest, volume 16, no. 7
[AD-A143958] 21 p3418 N84-31679
Literature review of tilting pad and turbulent hydrostatic journal bearings for nuclear main coolant pumps
21 p3418 N84-31680
Thermodynamic analysis of journal bearings operating under steady state loading in laminar regime
23 p3756 N84-33809

JOURNALS (DOCUMENTS)
U PERIODICALS

JOURNALS (SHAFTS)
U SHAFTS (MACHINE ELEMENTS)

JP-4 JET FUEL
Determination of a jet fuel metal deactivator by high performance liquid chromatography
[AD-A132220] 04 p0509 N84-13336
Rationale for a Threshold Limit Value (TLV)R for JP-4/Jet B wide cut aviation turbine fuel
[AD-A134814] 08 p1201 N84-17827
Decision recommendation board (DRB) report. Transition of shale JP-4 to the operational validation phase
[AD-A144504] 24 p3890 N84-34633

JP-5 JET FUEL
Alternative fuel deposit formation
15 p2289 N84-24735
The toxicity of petroleum and shale JP5
[AD-A142670] 20 p3260 N84-30690
Liquid and solid phase compositions in a partially frozen JP-5 fuel low in n-alkanes
[AD-A143390] 22 p3561 N84-32553

JUDGMENTS
Direct comparison of intuitive, quasi-rational and analytical cognition
[AD-A130273] 01 p0116 N84-10751
A critical analysis of the uses of multiple regression in the study of human judgement
[AD-A131224] 01 p0116 N84-10755
Representations of perceptions of risks
[AD-A131443] 01 p0117 N84-10759
External versus intuitive reasoning: The conjunction fallacy in probability judgment
[AD-A131801] 04 p0574 N84-13778
Neurobehavioral effects of carbon monoxide (CO) exposure in humans protocol 1
[AD-A133691] 06 p0888 N84-15774
Ambiguity and uncertainty in probabilistic inference
[AD-A133418] 06 p0905 N84-15872
Task conditions versus stable individual differences as determinants of experts' judgement policies
[AD-A134797] 08 p1203 N84-17841
Effort and accuracy in choice
[AD-A136881] 10 p1550 N84-20161
Tactical decision aids which quantify judgment
[AD-P002889] 13 p1979 N84-22850
Personnel technology: Performance appraisal, a process approach
[AD-A138359] 13 p2022 N84-23112
Interactive decision analysis and modelling
[CSIR-TWISK-294] 15 p2400 N84-25403
Effects of appraisal salience on immediate and memory-based judgments
[AD-A140334] 16 p2538 N84-26295
Risk and distributional inequality
[AD-A140373] 16 p2565 N84-26458
Information search in judgment tasks: The effects of unequal cue validity and cost
[AD-A141712] 19 p3063 N84-29437
The effect of information display format on multiple-cue judgment
[AD-A142884] 21 p3459 N84-31941
Medical-psychological problems of the occupational reliability of flight personnel 23 p3807 N84-34136

JUNCTION DIODES
Integrating IR detector imaging systems
[NASA-CASE-NPO-15805-1] 18 p2932 N84-28590

JUNCTION FIELD EFFECT TRANSISTORS
U JFET

JUNCTION TRANSISTORS
NT JFET
A rectangular gate merged MOSBJT
[AD-A132450] 04 p0525 N84-13453
Numerical modeling of the MOSBJT
[AD-A132351] 04 p0525 N84-13456
Thermodynamic field theory of the dynamic behavior of bipolar junction transistors 21 p3390 N84-31510

JUNGLES
U TROPICAL REGIONS

JUPITER (PLANET)
Telecommunications and data acquisition systems support for Voyager missions to Jupiter and Saturn, 1972-1981, prelaunch through Saturn encounter
[NASA-CR-174571] 02 p0183 N84-11186
Orbital resonances and planetary accretion in the early solar system evolution 02 p0307 N84-12016
Jupiter Data Analysis Program: Analysis of Voyager wideband plasma wave observations
[NASA-CR-174575] 03 p0465 N84-13058
Comment on the observed plasma densities in Jupiter's distant magnetotail (wake); a possible explanation
[IFSI-83-2] 03 p0465 N84-13062
Planetary geometry handbook: Jupiter positional data, 1985 - 2020, volume 4
[NASA-CR-173194] 07 p1091 N84-17098
Voyager observations of Jovian millisecond radio bursts
[NASA-TM-86052] 07 p1093 N84-17109
Charging effects observed on Voyager 1 near Jupiter
08 p1116 N84-17260
Vertical structure and convective dynamics of the equatorial region on Jupiter 11 p1758 N84-21473
The physics of a single-event upset in integrated circuits: A review and critique of analytical models for charge collection
[NASA-CR-173471] 12 p1912 N84-22459
The Galilean Satellite Geological Mapping Program, 1983 13 p2090 N84-23541
Relationships and tectonics of the Jg-7 quadrangle of Ganymede 13 p2091 N84-23542
A summary of whistlers observed by Voyager 1 at Jupiter
[NASA-CR-173415] 13 p2091 N84-23545
Voyager 1 imaging and IRIS observations of Jovian methane absorption and thermal emission: Implications for cloud structure
[NASA-CR-173567] 16 p2579 N84-26544
Analysis of Voyager observations of ion and electron phase space densities in the magnetospheres of Jupiter and Saturn 16 p2580 N84-26548
Determination of the Io heat flow. 1: Eclipse observations
[NASA-CR-173631] 17 p2774 N84-27614
A numerical averaging procedure for the Galilean Satellites system 19 p3118 N84-29816
The S-9 ephemeride of Phoebe with an analysis pf the observation 19 p3119 N84-29826
Analytical theory of the motion of the Galilean satellites of Jupiter: The first approximation
19 p3120 N84-29834
Observations of mutual phenomena of the Galilean satellites of Jupiter in 1979-1980
19 p3121 N84-29835
A simple theory of Trojan asteroids
19 p3121 N84-29837
Large amplitude MHD waves upstream of the Jovian bow shock: Reinterpretation
[NASA-TM-86131] 21 p3525 N84-32333
Particle excitation, airglow and H2 vibrational disequilibrium in the atmosphere of Jupiter
[NASA-CR-173930] 23 p3843 N84-34383
Pioneer 10 and 11 (Jupiter and Saturn) magnetometer experiment — interaction of a flowing plasma with Titan and the Jovian magnetosphere
[NASA-CR-174006] 24 p3989 N84-35241
Plasma electron analysis: Voyager plasma science experiment
[NASA-TM-85037] 24 p3989 N84-35243
Meteorite bombardment and dating of planetary surfaces
[NASA-TM-77558] 24 p3991 N84-35260

JUPITER ATMOSPHERE
Radiative transfer and photochemistry in the upper atmosphere of Jupiter 04 p0621 N84-14095
A dawn to dusk electric field in the Jovian magnetosphere
[NASA-CR-166463] 08 p1245 N84-18136
Scientific program in planetary atmospheric studies
[NASA-CR-175381] 09 p1416 N84-19263
The reaction NH2 + PH3 yields NH3 + PH2: Absolute rate constant measurement and implication for NH3 and PH3 photochemistry in the atmosphere of Jupiter
[NASA-TM-85063] 13 p2072 N84-23430
A summary of whistlers observed by Voyager 1 at Jupiter
[NASA-CR-173415] 13 p2091 N84-23545
Voyager 1 imaging and IRIS observations of Jovian methane absorption and thermal emission: Implications for cloud structure
[NASA-CR-173567] 16 p2579 N84-26544
Radio scintillations observed during atmospheric occultations of Voyager: Internal gravity waves at Titan and magnetic field orientations at Jupiter and Saturn
21 p3525 N84-32331

JUPITER PROBES
NT GALILEO SPACECRAFT

JUPITER RINGS
Trapped particle absorption by the Ring of Jupiter
[NASA-CR-173919] 22 p3679 N84-33323

JUPITER SATELLITES
NT CALLISTO
NT EUROPA
NT GALILEAN SATELLITES
NT GANYMEDE
NT IO
Shock vaporization and the accretion of the icy satellites of Jupiter and Saturn
[NASA-CR-173767] 19 p3122 N84-29843

K

K BAND
U EXTREMELY HIGH FREQUENCIES

KA BAND
U EXTREMELY HIGH FREQUENCIES

KALMAN FILTERS
On the application of optical signal processing to the solution of Riccati equations
[AD-A130710] 01 p0133 N84-10869
A general measurement design philosophy for the Kalman filter estimation with special application given to the imaging radar autofocus update
[AD-A133895] 05 p0734 N84-14819
Lectures of a Flight Mechanics Conference — conferences
[DFVLR-MITT-83-05] 07 p0944 N84-16120
Estimation of flight-mechanical motion characteristics with Kalman filters 07 p0944 N84-16126
AESOP: An interactive computer program for the design of linear quadratic regulators and Kalman filters
[NASA-TP-2221] 07 p1057 N84-16843
Study on optimal tracking strategy — satellite tracking
[GMV-211/83] 08 p1113 N84-17243
Linear and nonlinear filtering and related inverse scattering problems
[AD-A135175] 08 p1219 N84-17954
GP-B error modeling and analysis
[NASA-CR-170985] 09 p1372 N84-18960
Fixed point implementations of fast Kalman algorithms
[AD-A136188] 09 p1378 N84-19005
A systolic signal processor for recursive filtering 09 p1402 N84-19156
Simulation and analysis of differential global positioning system for civil helicopter operations
[NASA-CR-166534] 10 p1425 N84-19317
A comparison of two extended Kalman filter algorithms for air-to-air passive ranging
[AD-A136838] 10 p1426 N84-19323
The Page Matrix: An excellent tool for noise filtering of Markov parameters, order testing and realization
[EUT-82-E-127] 10 p1489 N84-19735
Instrument failure detection in nonlinear systems
[DE84-005306] 11 p1661 N84-20838
Optimal control and filter gains for the stationary continuous or discrete time LQG problem - A FORTRAN program
[AD-A137667] 11 p1713 N84-21168
Systolic triple-matrix product calculations 12 p1906 N84-22419
A minimization method for engineering estimation
[AD-P002372] 14 p2195 N84-24163
Advances in Strapdown Inertial Systems
[AGARD-LS-133] 16 p2446 N84-25691
Estimation of the parameters of an unmodulated carrier signal disturbed by complex-multiplicative and additive Gaussian noise
[ESA-TT-737] 16 p2482 N84-25914
Radar data smoothing filter study
[NASA-CR-168347] 18 p2844 N84-28059
Development, set up and testing of a measuring system for components of the Derived Azimuth System (DAS)
[BMFT-FB-W-84-005] 19 p2962 N84-28773
An optically implemented Kalman filter algorithm
[AD-A141126] 19 p3083 N84-29565
Application of an adaptive noise technique on state estimation to data smoothing
[INPE-3187-PRE/552] 21 p3465 N84-31963
Sensor noise and Kalman filter for aided inertial navigation system
[AD-A143360] 22 p3534 N84-32372
Air data position-error calibration using state reconstruction techniques
[NASA-TM-86029] 22 p3535 N84-32384
Reference systems for the evaluation of dead-reckoning navigation equipment 24 p3848 N84-34406

KANSAS
Radar remote sensing for crop classification and canopy condition assessment: Ground-data documentation
[E84-10020] 01 p0099 N84-10643
Progress in the scene-to-map registration investigation 03 p0394 N84-12572
A simulation study of scene confusion factors in sensing soil moisture from orbital radar
[E84-10042] 04 p0552 N84-13635
Classification and area estimation of land covers in Kansas using ground-gathered and LANDSAT digital data
[E84-10068] 06 p0865 N84-15637
Study of Thematic Mapper and Multispectral Scanner data applications 20 p3215 N84-30421

KAON PRODUCTION
Problems and prospects in strange baryon spectroscopy
[DE83-018119] 04 p0496 N84-13253

KAPITZA RESISTANCE
Dynamics of normal-zone propagation in Ta at small currents
[DE84-009990] 22 p3666 N84-33245

KAPTON (TRADEMARK)
Eddy current thickness gauge for reel-to-reel tape processes
[DE84-004050] 08 p1162 N84-17567
Neon transport in selected organic composites — stopping power of Kapton and polyethylene
[NASA-TM-85693] 08 p1231 N84-18044
Measurement of alpha/epsilon ratio by using a Sun pointing satellite Tansei 4 10 p1446 N84-19447
Degradation of thermal shield materials in the space radiation environment 10 p1446 N84-19448
Effect of space environment on space-based radar phased-array antenna (A0133) 15 p2271 N84-24636
Coated flexible laminate and method of its production
[NASA-CASE-GSC-12913-1] 15 p2301 N84-24807
Sputtered coatings for protection of spacecraft polymers
[NASA-TM-83706] 17 p2626 N84-26803
A facility for investigating interactions of energetic atomic oxygen with solids 24 p3863 N84-34481
An atomic oxygen facility for studying polymer materials for spacecraft applications 24 p3863 N84-34482
The energy dependence and surface morphology of Kapton (trademark) degradation under atomic oxygen bombardment 24 p3863 N84-34484

KARHUNEN-LOEVE EXPANSION
Principal components technique analysis for vegetation and land use discrimination — Brazilian cerrados
[E84-10135] 16 p2506 N84-26083

KARMAN VORTEX STREET
The existence of Karman vortex streets of unequal vortex strengths and possible forms of wake flow behind bluff bodies
[DFVLR-FB-83-33] 12 p1766 N84-21519
The stability of inviscid vortex streets of finite cored vortices
[AD-A139311] 14 p2145 N84-23855
The Karman vortex street detected by the geostationary meteorological satellite Himawari 24 p3921 N84-34817

KARST
Sensing of factors involved in development of exogenous processes on space photographs of arid territories 19 p2977 N84-28870
Geomorphology and hydrogeology of the Edwards Plateau karst, central Texas 23 p3796 N84-34071

KC-130 AIRCRAFT
U C-130 AIRCRAFT

KC-135 AIRCRAFT
U C-135 AIRCRAFT

KEL-F
Characterization of Kel-F-graphite composite (Kelgraf) electrodes and application to detection in flowing streams
[PB83-224204] 01 p0039 N84-10247
Application of Kelgraph to electrochemical detection to flow injection analysis and high performance liquid chromatography
[PB83-226928] 01 p0039 N84-10248

KELVIN-HELMHOLTZ INSTABILITY
Numerical study of Kelvin-Helmholtz instability by the point vortex method
[DE84-006613] 11 p1654 N84-20797
Representation of TEM fields in gyrotropic media by scalar Hertz potentials
[ISSN-0208-5658] 19 p3003 N84-29034
Feedback in separated flows over symmetric airfoils
[NASA-TM-83758] 21 p3324 N84-31091
Simulation of the Kelvin-Helmholtz instability of a supersonic slip surface with the Piecewise-Parabolic Method (PPM)
[DE84-013219] 22 p3595 N84-32768

KENTUCKY
Water resources data, Kentucky water year 1982
[PB84-162320] 14 p2171 N84-24004
A compilation of mineral occurrences and the relationship of occurrences to structural elements of the Kentucky and Tennessee region
[NASA-CR-175240] 18 p2878 N84-28275

KEPLER LAWS
Milgrom's revision of cosmic dynamics: Amending Newton's laws or Keplers?
[NASA-TM-86049] 08 p1244 N84-18132
Space in Keplerian orbits 19 p2972 N84-28842

KERNEL FUNCTIONS
Portable kernel for computers
[INPE-2877-PRE/403] 02 p0271 N84-11775
Implementing an ADA kernel on NEBULA
[AD-A132745] 05 p0719 N84-14714
On jackknifing kernel regression function estimators
[AD-A133236] 06 p0904 N84-15867
The use of the MASCOT philosophy for the construction of Ada programs
[AD-A137417] 10 p1563 N84-20239
Generalization of the subsonic kernel function in the s-plane, with applications to flutter analysis
[NASA-TP-2292] 11 p1600 N84-20480
On a class of quasilinear partial integrodifferential equations with singular kernels
[AD-A141700] 19 p3087 N84-29595
Solution formulas for the delta delta bar equation and weighted Nevanlinna classes in the polydisk
[CTH-MATH-1984-07] 19 p3091 N84-29625
Asymptotic estimates for resolvents of some nonintegrable Volterra kernels
[AD-A141662] 21 p3471 N84-31999

KEROGEN
Solar-heated oil shale retort
[NASA-CASE-NPO-16392-1] 22 p3616 N84-32912

KEROSENE
An assessment of the use of antimisting fuel in turbofan engines
[NASA-CR-168081] 01 p0052 N84-10332
Numerical simulations of fuel droplet flows using a Lagrangian triangular mesh
[NASA-CR-168263] 03 p0370 N84-12411
The relationship between electrical conductivity and temperature of aviation turbine fuels containing static dissipator additives
[AD-A135751] 09 p1290 N84-18421
Spontaneous ignition characteristics of gaseous hydrocarbon-air mixtures 11 p1613 N84-20557
The effect of property changes on jet fuel producibility and cost 14 p2106 N84-23632

KERR ELECTROOPTICAL EFFECT
All-fiber gyroscope with optical-Kerr-effect compensation 06 p0846 N84-15518
Investigation of electro-optical effects in liquid crystals for high information density over a wide temperature range — displays
[BMFT-FB-T-84-120] 23 p3831 N84-34304

KETONES
NT ACETONE
Stabilization of the solvent Methyl-n-Amyl Ketone (MAK) in vinyl paints
[AD-A131059] 01 p0050 N84-10323
Characterization of polyetheretherketone and other engineering thermoplastics
[DE84-010668] 23 p3725 N84-33603

KEVLAR (TRADEMARK)
Flight service evaluation of Kevlar-49 epoxy composite panels in wide-bodies commercial transport aircraft
[NASA-CR-166065] 01 p0030 N84-10188
High-specific-energy composite-material flywheel
[DE83-012943] 01 p0090 N84-10586
Continuous plasma treatment and resin impregnation of a high-strength fiber material
[DE84-000314] 04 p0492 N84-13229
Statistical analysis of Kevlar 49/epoxy composite stress-rupture data
[DE84-000516] 04 p0492 N84-13230
Application of kinetic fracture mechanics to life prediction for polymeric materials
[DE84-003002] 07 p0979 N84-16347
The basic ply properties of a Kevlar 49/epoxy resin composite system
[AD-A136614] 09 p1286 N84-18397
Review report of the third year's activities on the study survey of advanced materials — for spacecraft and launch vehicles
[R878] 12 p1790 N84-21675
Preliminary results of the effects of sewing, packing and parachute deployment on material strength
[DE84-006464] 13 p1927 N84-22541
Hydrolytic degradation of Kevlar 49 fibers
[DE84-004158] 13 p1954 N84-22705
Modes of deformation and failure of Kevlar 49 fibers and composites
[DE84-004162] 13 p1954 N84-22706
Thick-wall Kevlar 49/epoxy pressure vessels
[DE84-003102] 14 p2120 N84-23707
Mechanical behavior of surface aminated polyaramid fabric/epoxy composites
[DE84-006230] 14 p2120 N84-23708
Surface acoustic admittance and absorption of highly porous, layered, fibrous materials 17 p2762 N84-27545
Characterization of filament wound Kevlar and glass composites for rocket motor applications 20 p3142 N84-29949
Development of GAP-TAGN-PEG propellants. Part 1: Study of ingredients 20 p3143 N84-29954
Flight service evaluation of Kevlar-49 epoxy composite panels in wide-bodied commercial transport aircraft
[NASA-CR-172344] 21 p3356 N84-31287
Quality-assurance tests of five Y-12 Kevlar-49 spools used to fabricate strands and reliability specimens for stress-rupture tests
[DE84-012373] 21 p3357 N84-31295

Textile ballistic performance (data base)
[AD-A143249] 22 p3560 N84-32541
Ground exposure of composite materials for helicopters
[NASA-TM-86311] 24 p3879 N84-34577

KEYING
NT FREQUENCY SHIFT KEYING
NT PHASE SHIFT KEYING
Performance assessment of Serial Minimum Shift Keying (SMSK) modulation technique, volume 2
[ESA-CR(P)-1840-VOL-2] 12 p1809 N84-21797

KIDNEYS
Apparatus for disintegrating kidney stones
[NASA-CASE-GSC-12652-1] 24 p3936 N84-34913

KILOMETRIC WAVES
Auroral kilometric radiation: Wave modes, harmonic and source region electron density structures
[NASA-TM-86101] 15 p2367 N84-25203
Path integrated growth of auroral kilometric radiation
[NASA-CR-173995] 24 p3919 N84-34812

KIMBERLITE
U BIOTITE
U PERIDOTITE

KINEMATIC EQUATIONS
Wave propagation in fluid lines
[MEAH-26] 07 p1005 N84-16521
Determining orientation of solid object
17 p2642 N84-26907
Equations in Rodrigues-Hamilton parameters for heavy solid body rotating about fixed point
17 p2643 N84-26908
Kinematic control of robot with degenerate wrist
[NASA-TP-2341] 18 p2923 N84-28539

KINEMATICS
NT BODY KINEMATICS
Elasto-plastic analysis of plane stress problems using uniaxial symmetric Tresca yield surface and kinematic hardening 01 p0093 N84-10606
Special cases of friction and applications
[NASA-TM-83523] 02 p0229 N84-11500
Studies of satellite geodesy, Very Long Baseline Interferometry (VLBI) and geodetic measuring techniques
[BONN-MITT-65] 02 p0233 N84-11528
Experiment to measure microkinematic processes on the surface of the Earth 02 p0233 N84-11529
A climatology of synoptic scale atmospheric structure prior to severe convective storms
02 p0253 N84-11653
Erosive particle kinematics in the turbulent combustion boundary layer contacting a solid wall
[DE83-010584] 03 p0349 N84-12272
Kinematic equations for resolved-rate control of an industrial robot arm
[NASA-TM-85685] 04 p0585 N84-13866
An analysis of the satellite kinematics model in the Naval Warfare Gaming System
[AD-A134039] 05 p0643 N84-14229
Aircraft hazard assessment from a clear-air radar and meteorological tower study of gravity wave events — effect on airspeed
[PB83-257139] 05 p0710 N84-14650
Theories of kinematic analysis and synthesis of spatial mechanisms containing lower and higher pairs
[AD-A134519] 07 p1016 N84-16594
Sub-cloud layer kinematics and convective rainfall in central Illinois
[AD-A134483] 07 p1039 N84-16741
The actual content of quantum theoretical kinematics and mechanics
[NASA-TM-77379] 07 p1063 N84-17046
Investigation of ice dynamics in the marginal ice zone — Arctic Ocean
[AD-A134599] 08 p1196 N84-17799
Kinematics and dynamics of multi-rigid-body open-chain systems: Application to robot manipulators
08 p1204 N84-17851
Analysis of the kinematic properties data of the shoulder complex during forced motion
[AD-A135913] 09 p1362 N84-18895
First order ball bearing kinematics
[NASA-TM-83592] 10 p1502 N84-19816
The Shock and Vibration Digest, volume 15, no. 11
[AD-A137065] 10 p1507 N84-19858
Kinematics, influence functions and field quantities for disturbance propagation from moving disturbance sources
[NASA-TM-77410] 11 p1601 N84-20489
Kinematic and dynamic analysis of high-speed intermittent-motion mechanisms
[AD-A137903] 11 p1665 N84-20862
Can cloud-top entrainment promote cloud growth?
12 p1857 N84-22100
Application of symbolic computation to the analysis of mechanical systems, including robot arms
[AD-P002940] 14 p2197 N84-24180
Design and analysis of Coordinated Bank-To-Turn (CBTT) autopilots for Bank-To-Turn (BTT) missiles
[AD-A140103] 15 p2280 N84-24698
The conceptual design of mechanisms and mechanical systems 15 p2311 N84-24869
Automated dynamic analysis of mechanisms with flexible links 15 p2311 N84-24870
Circumferential cracks in cylindrical shells
16 p2501 N84-26050
Treatment of walking as controllable self-excited oscillations 17 p2649 N84-26942
Spin analysis of concentrated traction contacts
[NASA-TM-83713] 17 p2675 N84-27042
Investigation of ice dynamics in the marginal ice zone
[AD-A138558] 17 p2737 N84-27387
Seyfert galaxy narrow-line regions: A spectroscopic investigation 17 p2774 N84-27612
On the scattering of electromagnetic waves by perfectly conducting bodies moving in vacuum. Part 4: Kinematic single layer potentials
[AD-A141747] 19 p3006 N84-29052
Seismicity of Iceland and the adjoining region of the Atlantic Ocean 19 p3061 N84-29423
A model of the shoulder girdle for use in rehabilitation
20 p3264 N84-30710
Conservation laws of wave action and potential enstrophy for Rossby waves in a stratified atmosphere
[NASA-TM-86058] 21 p3442 N84-31838
The kinematics of the emission line gas in quasars and active galactic nuclei 21 p3524 N84-32326
Microscopic studies of accelerated destruction of plastic contact in kinematic pairs from different metals
[ISSN-0208-5658] 23 p3716 N84-33554
Retrieval of thermal and microphysical variables in observed convective storms 23 p3799 N84-34089
The structure, internal kinematics and dynamics of open star clusters 23 p3839 N84-34357
Physics of nonmagnetic relativistic thermal plasmas
[NASA-TM-86154] 24 p3965 N84-35107

KINESTHESIS
U PROPRIOCEPTION

KINETIC ENERGY
Spontaneous transfer of magnetically stored energy to kinetic energy by electric double layers
[TRITA-EPP-83-05] 02 p0297 N84-11949
Annular Momentum Control Device (AMCD)
03 p0345 N84-12241
Magnetic bearings for inertial energy storage
03 p0345 N84-12242
Feasibility of a laser or charged-particle-beam fusion-reactor concept with direct electric generation by magnetic-flux compression
[DE83-015735] 03 p0381 N84-12482
Measurement of friction and wear on modified surfaces
[AD-A132364] 04 p0544 N84-13583
Energization of ions by oblique double layers
04 p0561 N84-13700
Winter currents on the eastern Bering Sea shelf
[PB83-248823] 04 p0570 N84-13753
A study of the return to isotropy of homogeneous turbulence 06 p0780 N84-15110
A comparison study of the energetics of standing and transient eddies between two general circulation models: The GLAS Climate Model and the NCAR Community Climate Model 06 p0880 N84-15726
Kinetic energy in the northern hemisphere during the FGGE (First GARP Global Experiment) year
[AD-A135382] 08 p1190 N84-17759
Theoretical studies on free electron lasers
[AD-A136333] 09 p1321 N84-18627
The stability of elliptical stellar disks. Belanced disks
[PR-826] 09 p1385 N84-19043
Application of the kinetic energy calculation as an aid in mode identification 10 p1511 N84-19888
Shock isolated accelerometer
[AD-P002692] 11 p1660 N84-20827
On the onset of the planetary scale monsoon
11 p1684 N84-20886
Application of a fractional-step method to incompressible Navier-Stokes equation
[NASA-TM-85896] 12 p1893 N84-22328
Energetics of vortex ring formation
[AD-A138795] 13 p1927 N84-22539
Condensed phase temperature profiles in deflagrating HMX 13 p1947 N84-22657
New acid-proof protective coating
14 p2136 N84-23806
Calculations of intermittency in self-preserving, free turbulent jets and wakes
[CFD/83/10] 15 p2332 N84-25006
Turbulent structure of stably stratified nocturnal slope flows
[AD-A140740] 17 p2734 N84-27378
Experimental and theoretical studies of laser propulsion phenomenology
[AD-A140995] 18 p2846 N84-28069
Anodic processes and the kinetics of stress-corrosion cracking or corrosion fatigue
[DE84-012911] 21 p3368 N84-31367
Magnetically confined kinetic-energy storage ring: A new fundamental energy-storage concept
[DE84-011531] 21 p3435 N84-31793
Diffusion transfer during near-sonic turbulence
21 p3486 N84-32090
Motion of vortex pair between parallel walls
21 p3486 N84-32092
Effects of insulin and hydrocortisone on energy metabolism in rats irradiated with fast, 60 MeV neutrons
22 p3630 N84-33002
Behavior of Al2O3 and SiO2 with heating in a Cl2 + CO stream
[NASA-TM-77487] 23 p3713 N84-33533
Multiphoton ionization mass and photoelectron spectroscopy
[AD-A143823] 23 p3714 N84-33542
A kinetic energy study of the meso beta-scale storm environment during AVE-SESAME 5 (20-21 May 1979)
[NASA-CR-3820] 23 p3800 N84-34090
Momentum distributions in hcp, bcc, and liquid He-4
[DE84-014679] 23 p3831 N84-34300
Dynamic analysis of evolutive conservative systems. Discussion of eigenmode crossings
[NASA-TM-77052] 24 p3860 N84-34462

KINETIC EQUATIONS
NT HELMHOLTZ VORTICITY EQUATION
NT HYDRODYNAMIC EQUATIONS
NT KINEMATIC EQUATIONS
The kinetic equation in an imperfect ionized plasma
[IPPJ-656] 11 p1734 N84-21308
Axisymmetric, non-ideal MHD states with steady flow
[DE84-006045] 11 p1738 N84-21340
Numerical modeling of D-mappings with applications to chemical kinetics
[NASA-TM-84332] 12 p1893 N84-22326
Plane motion of solid body on rough surface of annular bearing rotating about its axis perpendicular to plane of motion 13 p1973 N84-22801
Synthesis of refractory compounds with gasless combustion reactions
[AD-A140298] 16 p2472 N84-25842
Role of charged state in build-up and annealing of deep centers in GaAs irradiated by protons
18 p2825 N84-27938
Use of the Burton-Prim-Slichter equation at high growth rates 18 p2936 N84-28622
Wave propagation in elastic-viscoplastic bodies
[REPT-23] 19 p3034 N84-29242
Theory and modeling of atmospheric turbulence, part 2
[NASA-CR-3817] 19 p3057 N84-29398
An optimal control problem in the study of liver kinetics
[CTH-MATH-1984-10] 19 p3064 N84-29439
Rotation and impurity transport in a Tokamak plasma with directed neutral beam injection
[DE84-008014] 20 p3306 N84-30996
Nonequilibrium optical and acoustic phonons in semiconductors 21 p3485 N84-32085
Representation of the Fokker-Plank collision term for Coulomb interaction as series of Legendre polynomials
[INPE-3232-PRE/582] 24 p3949 N84-35006

KINETIC FRICTION
NT SLIDING FRICTION
The fate of the magellanic clouds
09 p1413 N84-19248
Lubrication during cutting: Wear and friction
[CETIM-13-Y-322] 21 p3414 N84-31653
Transient response dynamic module modifications to include static and kinetic friction effects
22 p3610 N84-32872

KINETIC HEATING
NT AERODYNAMIC HEATING
NT SHOCK HEATING

KINETIC THEORY
NT CHAPMAN-ENSKOG THEORY
NT MIXING LENGTH FLOW THEORY
NT TRANSPORT THEORY
The kinetic theory of gases with applications in rarefied gas dynamics
[PREPRINT-746] 02 p0221 N84-11449
Laser and plasma research
[AD-A136519] 09 p1397 N84-19125
Toward a new kinetic theory for resonant triads
[AD-A137096] 10 p1571 N84-20297
Kinetic theory of gases, magneto-fluid dynamics and their application
[AD-A137082] 10 p1585 N84-20390

Kinetic theory of gases, magneto-fluid dynamics and their application
[AD-A139616] 15 p2332 N84-25007
Kinetic-elastic approach for time-dependent rheological data on slurry fuels and polymers
[AD-A141210] 18 p2821 N84-27911
Modeling kinetics of aerodisperse phase in ocean surface layer 18 p2859 N84-28153

KINETICS
NT ELECTROKINETICS
NT KINETIC ENERGY
NT NEWTON SECOND LAW
NT NEWTON THEORY
NT REACTION KINETICS
Strong coupling effects on bound states in plasmas
[AD-A131661] 03 p0444 N84-12918
Tempering kinetics of alloy steels as a function of quench rate and M sub s temperature
[AD-A134806] 08 p1132 N84-17365
Precipitation mechanisms in aluminum-lithium alloys
[AD-A134836] 08 p1133 N84-17367
Atomic transport in metallic glasses
[AD-A136363] 09 p1282 N84-18373
Application of solidification theory to rapid solidification processing
[AD-A135982] 09 p1283 N84-18380
Pulsed generation of singlet delta oxygen (O2(1 delta)) via ozone photolysis
[AD-A138195] 12 p1792 N84-21684
Nonlinear least-squares fitting of first-order rate coefficients comparison between the Gauss-Seidel method and Swain's kore program
[AD-A139080] 13 p2029 N84-23157
The chemistry of nitrogen compounds in combustion processes
[AD-A139539] 14 p2123 N84-23723
Inner-sphere reorganization in optical electron transfer
[AD-A139722] 15 p2405 N84-25435
Prediction of transition states and thermochemistry for combustion reactions
[AD-A140738] 17 p2619 N84-26761
Influence of wind on rate of gas exchange through ocean-atmosphere interface 17 p2699 N84-27190
Discrepancies in kinematic parameters of earthquakes according to observations by regional and world networks of stations 17 p2702 N84-27213
Theoretical study of the radiative and kinetic properties of selected metal oxides and air molecules
[AD-A141230] 18 p2811 N84-27847
Infrared nonlinear processes in semiconductors
[AD-A141032] 18 p2940 N84-28649
Thermodynamic and kinetic properties of interstitial solid solutions
[AD-A132783] 18 p2942 N84-28659
Anisotropic diffusion kinetics of metals and carbides in pyrolytic graphite
[BLL-CTO-2261-(9091.9F)] 19 p2991 N84-28953
Metal dissolution kinetics in halide melts
[DE84-004030] 19 p2995 N84-28977
Grinding kinetics and equilibrium states
[NASA-TM-77430] 19 p3002 N84-29025
Investigation of the crystallization kinetics of an incongruent melting salt hydrate under metastable conditions
[DE84-008666] 19 p3112 N84-29771
Kinetic processes in high pressure gases. Excited state collisions
[AD-A141927] 20 p3152 N84-30016
Geokinetic effects on motion sensitive instrumentation, systems and facilities
[AD-A142682] 20 p3241 N84-30575
Use of pulse radiolysis to measure high temperature kinetics
[DE84-011702] 21 p3361 N84-31324
Shock-initiated decomposition of nitramines with laser diagnoeitcs 21 p3372 N84-31401
Differential scanning calorimeter data acquisiton system
[AD-A143118] 21 p3405 N84-31600
Kinetics and mechanisms of thermolytic interconversions of boron hydrides
[AD-A143525] 22 p3547 N84-32455
Recent developments in thermoluminescence kinetics
[DE84-013226] 22 p3547 N84-32457
Effect of cyclic changes in cultivation conditions of growth kinetics and physiological properties of yeasts 22 p3629 N84-32998
Upper to lower body muscular strength and endurance ratios for women and men
[AD-A143821] 23 p3811 N84-34168
Relationship of structure with cyclic crack resistance of Alpha-titanium alloys 24 p3875 N84-34557
Investigation of thermal coking rates of Air Force jet fuels
[AD-A144421] 24 p3890 N84-34631
Group-kinetic scaling as a basis for modeling large scale turbulence 24 p3926 N84-34848

KINOFORM
Infrared optics: Holographic and surface relief devices
[BAE-BT-11393] 13 p2042 N84-23249

KIRCHHOFF LAW OF RADIATION
Possibility of extending Kirchhoff's approximation to problems of wave diffraction by transparent nonhomogeneous bodies 18 p2822 N84-27920

KIRCHHOFF-HELMHOLTZ FLOW
U PIPE FLOW

KIRCHHOFF-HUYGENS PRINCIPLE
U DIFFRACTION
U WAVE PROPAGATION

KITS
Aircraft crew diet in emergency situations 02 p0259 N84-11696

KLEIN-GORDON EQUATION
On space-time means and everywhere defined scattering operators for nonlinear Klein-Gordon equations
[CTH-MATH-1983-13-PREPRINT] 03 p0426 N84-12793

KLYSTRONS
New control system for the SLAC accelerator klystrons for SLC
[DE83-012706] 01 p0073 N84-10480
High pulse power RF sources for linear colliders
[DE84-003517] 07 p0999 N84-16477
Klystron manufacturing technology program
[AD-A135782] 09 p1309 N84-18555
Experimental investigation of the characteristics of an ultraviolet storage ring laser
[AD-A137751] 11 p1662 N84-20847
New results of the ACO storage ring free electron laser
[AD-A137785] 11 p1663 N84-20848
SAR transmitter
[SES/ENG/TN-254/83] 16 p2484 N84-25928
A collective interaction klystron
[AD-A141275] 18 p2834 N84-27991
Klystron voltage pulse timing experiment
[DE84-011753] 20 p3177 N84-30176
Analytic solution for the problem of gridded gap-electron flow interaction
[DE84-008975] 20 p3181 N84-30209
High power RF klystrons for linear accelerators
[DE84-012074] 21 p3392 N84-31527
A 1-dimensional disk model simulation for klystron design
[DE84-013793] 22 p3588 N84-32727

KNIGHT SHIFT
U NUCLEAR MAGNETIC RESONANCE

KNOBS
Temperature rise of handles and knobs
[BLL-OA-TRANS-3047-(6196.3)] 04 p0533 N84-13502

KNOWLEDGE
NT PARADOXES
NT PHILOSOPHY
Research on interactive acquisition and use of knowledge
[AD-A131306] 02 p0278 N84-11823
What's important about knowledge representation
[AD-A131280] 02 p0278 N84-11825
The syntactic theory of belief and knowledge
[AD-A133905] 05 p0732 N84-14807
Exploiting temporal knowledge to organize constraints
[AD-A133417] 06 p0899 N84-15836
Distributed knowledge base systems for diagnosis and information retrieval
[AD-A136577] 09 p1404 N84-19171
Mental representation of circuit diagrams: Individual differences in procedural knowledge
[AD-A136876] 10 p1550 N84-20159
Knowledge-based support systems for long range planning
[AD-A137311] 10 p1591 N84-20424
The microcomputer knowledge base: Introduction and user instructions
[AD-A137694] 11 p1704 N84-21106
Distributed knowledge base systems for diagnosis and information retrieval
[AD-A137828] 11 p1750 N84-21421
Representing and acquiring geographic knowledge
[AD-A139308] 14 p2169 N84-23994
Symbolic knowledge processing for the acquisition of expert behavior: A study in medicine
[AD-A141835] 19 p3068 N84-29460

KNOWLEDGE ENGINEERING
U EXPERT SYSTEMS

KNUDSEN CELLS
U KNUDSEN GAGES

KNUDSEN FLOW
Higher order numerical simulations of the Knudsen layer
[AD-A131536] 02 p0190 N84-11234
The collapse of the local, Spitzer-Haerm formulation and a global-local generalization for heat flow in an inhomogeneous, fully ionized plasma 03 p0468 N84-13080
Analysis of flow dynamics through small diameter gas sampling systems
[NASA-CR-175447] 11 p1728 N84-21276

KNUDSEN GAGES
Influence of container interactions on the vaporization thermodynamics of nickel
[MRL-R-884] 17 p2822 N84-28784

KNUDSEN NUMBER
U KNUDSEN FLOW

KOLMOGOROFF THEORY
The relationship between strength of turbulence and backscattering radar power at HF and VHF 17 p2689 N84-27125
Kolmogorov's and Mourier's strong laws for arrays with independent and identically distributed columns
[AD-A143222] 22 p3650 N84-33139

KOLMOGOROFF-SMIRNOFF TEST
Random number generators for a pocket calculator
[MC-SW-83/83] 07 p1064 N84-16904

KOREA
The Korean auroral records, 1507 - 1747 and the SAR (Stable Auroral Red) arcs
[NASA-CR-174472] 01 p0104 N84-10677
Uijongbu, Camp LaGuardia, Korea, Limited Surface Observations Climatic Summary (LISOCS)
[AD-A137573] 11 p1685 N84-20989

KORTEWEG-DEVRIES EQUATION
A remark on the Korteweg-de Vries equation
[PREPRINT-403] 23 p3819 N84-34218

KREBS CYCLE
Oxidative enzyme activity in rat blood plasma and subcellular fraction of liver following flight aboard Cosmos-936 biosatellite 15 p2377 N84-25265

KREEP
The Lf-Hf evolution of KREEP 11 p1756 N84-21481

KRIGING
Kriging of geological and physical parameters from Yucca Flat, NTS
[DE83-018227] 04 p0550 N84-13625
Geostatistics software user's manual for the Geosciences Research and Engineering Department PDP 11/70 computer
[DE84-004149] 09 p1369 N84-18940

KRONECKER PRODUCT
U ORTHOGONALITY

KRYPTON
NT KRYPTON 85
Kinetics of growth and decay of excited rare-gas atoms and molecules in the pulse radiolysis of pure rare gases and of mixtures of rare gases with molecular quenching agents
[DE83-017018] 03 p0436 N84-12658
Scattering distribution characteristics of rare gases reflected from metal surface with absorbed gas molecules
[NAL-TR-761] 09 p1394 N84-19101
Inner-shell photoemission from atoms and molecules using synchrotron radiation
[DE84-006624] 14 p2223 N84-24339
Resonance ionization spectroscopy of argon, krypton and xenon using vacuum ultraviolet light
[DE84-011655] 20 p3150 N84-30006

KRYPTON FLUORIDE LASERS
Ultraviolet-laser triggering of a 5-megavolt multistage gas switch
[DE83-013641] 01 p0087 N84-10570
E-beam pulsewidth scaling for a large KrF laser
[DE83-013632] 01 p0087 N84-10571
Pulse power for the RAPIER B amplifier KrF laser system
[DE83-012951] 01 p0088 N84-10573
Development of CO2 and KrF gas lasers as drivers for inertial confinement fusion
[DE84-004329] 10 p1501 N84-19610

KRYPTON ISOTOPES
NT KRYPTON 85

KRYPTON 85
East Europe report: Scientific affairs
[JPRS-ESA-84-008] 14 p2174 N84-24020
Measurements concerning increase of atmospheric radiokrypton content 14 p2174 N84-24022
Measurements of atmospheric Kr-85 concentration at ATOMKI from 1966 to 1977 14 p2174 N84-24023

KU BAND
U SUPERHIGH FREQUENCIES

KUIPER AIRBORNE OBSERVATORY
U C-141 AIRCRAFT

KURILE ISLANDS
Local gravity anomalies and crustal density inhomogeneities in southern Kurile Islands
17 p2701 N84-27205
KURTOSIS
Frequency domain non-linear signal processing apparatus and method for discriminationd against non-Gaussian interference
[AD-D011068] 19 p3017 N84-29126
Detection of randomly occuring signals using spectra and frequency domain kurtosis estimates
[AD-A141461] 19 p3084 N84-29573

L

L BAND
U ULTRAHIGH FREQUENCIES
L-SAT
Development of a spacecraft infrared test technique as an alternative to solar simulation: First steps on L-SAT thermal model
10 p1439 N84-19398
Heat pipes for the L-SAT communications module radiators
10 p1440 N84-19405
The thermal design of L-SAT large telecommunication satellite
10 p1441 N84-19414
L-1011 AIRCRAFT
Development of the L-1011 four-dimensional flight management system
[NASA-CR-3700] 09 p1254 N84-18183
L-1011 testing with relaxed static stability
11 p1618 N84-20591
Development of an advanced composite aileron for the L-1011 transport aircraft
[NASA-CR-3517] 18 p2810 N84-27836
Development and flight evaluation of an augmented stability active controls concept with a small horizontal tail
[NASA-CR-165951] 19 p2967 N84-28805
Residual-strength tests of L-1011 vertical fin components after 10 and 20 years of simulated flight service
20 p3145 N84-29970
Flight service evaluation of Kevlar-49 epoxy composite panels in wide-bodied commercial transport aircraft
[NASA-CR-172344] 21 p3356 N84-31287
Development and flight evaluation of an augmented stability active controls concept with a small tail
[NASA-CR-173680] 22 p3537 N84-32395
LABELING (MARKING)
U MARKING
LABOR
Employment changes resulting from the award of contracts in labor surplus areas
[AD-P002834] 13 p2063 N84-23379
USSR report: Human resources
[JPRS-UHR-84-009] 14 p2187 N84-24103
Robotics impact on labor productivity examined
14 p2187 N84-24104
Biological clocks and shift work scheduling
[GPO-29-312] 15 p2379 N84-25277
Far north as source of nonferrous metals
24 p3874 N84-34551
LABORATORIES
NT ENGINE TESTING LABORATORIES
NT ENVIRONMENTAL LABORATORIES
NT LONG DURATION EXPOSURE FACILITY
NT SPACE LABORATORIES
NT UNDERWATER RESEARCH LABORATORIES
USAF/SCEEE summary faculty research program, research reports, volume 1
[AD-A130769] 01 p0157 N84-11032
The historical records of the Naval Research Laboratory: A guide for researchers
[AD-A131620] 02 p0302 N84-11982
Defense, energy, and basic research at the Los Alamos National Laboratory
[DE83-015241] 07 p1094 N84-17116
RLE (Research Laboratory of Electronics)
[AD-A134812] 08 p1151 N84-17495
AFRPL (Air Force Rocket Propulsion Laboratory) technical objective document FY 1985
[AD-A137856] 11 p1626 N84-20641
Developments in science and technology
[JHU/APL/DST-10] 11 p1761 N84-21491
Japanese research institutes funded by private corporations
[AD-A140892] 17 p2772 N84-27600
Joint services electronics program
[AD-A144444] 24 p3898 N84-34684
Joint services electronics program
[AD-A144445] 24 p3898 N84-34685
LABORATORY EQUIPMENT
NT IMAGE FURNACES
X-ray wear metal monitor
[AD-A131251] 01 p0012 N84-10076
Quantitative Secondary Ion Mass Spectroscopy (SIMS)
[AD-A134195] 08 p1125 N84-17315
Laboratory glassware rack for seismic safety
[NASA-CASE-ARC-11422-1] 11 p1657 N84-20608
An improved MSK generator diagnostic unit
[AD-A140568] 17 p2672 N84-27028
Studies of US universities' research equipment needs inconclusive
[AD-A141784] 19 p2970 N84-28821
Strategies for analytical applications and implementation of a multi-purpose laboratory robot
[DE84-012379] 20 p3198 N84-30314
LABYRINTH
NT COCHLEA
NT VESTIBULES
LACQUERS
Support of oil lubrication by bonded coatings
15 p2342 N84-25057
LACTATES
Behavioral change of blood lactate metabolism
[PB84-100171] 08 p1204 N84-17850
Nonenzymatic formation of energy-rich lactoyl and glyceroyl thioesters from glyceraldehyde and a thiol
[NASA-CR-173633] 17 p2617 N84-26748
LADDERS
Dielectric based submillimeter backward wave oscillator circuit
[NASA-CASE-LEW-13736-1] 18 p2831 N84-27974
LAG (DELAY)
U TIME LAG
LAGEOS (SATELLITE)
Accuracy estimates of gravity potential differences between western Europe and United States through Lageos satellite laser ranging network
[AD-A131838] 03 p0408 N84-12669
The orbit of Lageos and solar eclipses
[NASA-TM-86076] 12 p1923 N84-22525
Satellite tracking and Earth dynamics research programs
[NASA-CR-173502] 14 p2112 N84-23661
Drag on geodynamic satellites
19 p3118 N84-29818
Update: San Andreas Fault experiment
20 p3220 N84-30456
A comparison between Lageos laser ranging and VLBI determined baselines
20 p3220 N84-30459
Lageos orbit and the albedo problem
20 p3221 N84-30464
Lageos orbit and solar eclipses
20 p3221 N84-30465
Verification of the accuracy of GEM-L2 in response to criticism by Lambeck and Coleman
20 p3221 N84-30466
Systems analysis and computer simulation studies of the laser ranging measurement process
24 p3906 N84-34739
LAGOONS
Installation restoration general environmental technology development. Task 3: Guidelines for in-place closure of dry lagoons. Volume 2: Evaluation of in-place closure technologies
[AD-A140655] 17 p2724 N84-27338
Holocene sediments and evolution of the Indian River (Atlantic coast of Florida)
21 p3426 N84-31730
LAGRANGE COORDINATES
On the role of the baroclinic structure in extratropical cyclone development: A case study
11 p1664 N84-20987
A Lagrangian method for a two layer shallow water model
12 p1853 N84-22068
LAGRANGE EQUATIONS OF MOTION
U EULER-LAGRANGE EQUATION
LAGRANGE MULTIPLIERS
Periodic solutions of Lagrangian systems on a compact manifold
[AD-A134557] 07 p1063 N84-16897
Normal modes of a LaGrangian system constrained in potential well
[AD-A137948] 11 p1715 N84-21187
Application of augmented-Lagrangian methods in meteorology: Comparison of different conjugate-gradient codes for large-scale minimization
12 p1854 N84-22076
Relativistic particle dynamics: Lagrangian proof of the no-interaction theorem
[DE84-009147] 19 p3102 N84-29707
Numerical solution of viscoplastic flow problems by augmented lagrangians
[AD-A142793] 21 p3400 N84-31566
Least-squares smoothing of direct-exchange in zonal analysis
[DE84-002612] 22 p3595 N84-32770
Equivalence between maximization problems subjected to inequality constraints
[INPE-3166-PRE/536] 23 p3818 N84-34206
Spline and weighted random directions method for nonlinear optimization
[AD-A144217] 24 p3950 N84-35012
LAGRANGE SIMILARITY HYPOTHESIS
Lagrangian singularities: Applications
19 p3118 N84-29812
LAGUERRE FUNCTIONS
Validation methods for mathematical models of flexible satellite dynamics
[ESA-CR(P)-1794] 08 p1113 N84-17241
LAKE BEDS
U BEDS (GEOLOGY)
LAKE ERIE
Great Lakes coastal geology: Stratigraphy and bluff recession along the Lake Erie coast, New York
[PB84-128933] 10 p1538 N84-20075
Investigation of the currents and density structures of Lake Erie
[PB84-140334] 11 p1672 N84-20911
LAKE ICE
NT ICE FLOES
Predicting lake ice decay
[AD-A132012] 03 p0401 N84-12618
Modeling of water quality in Lake Michigan and the effect of the anomalous ice cover of 1976 - 1977
[PB84-167667] 16 p2511 N84-26115
LAKE MICHIGAN
Modeling of water quality in Lake Michigan and the effect of the anomalous ice cover of 1976 - 1977
[PB84-167667] 16 p2511 N84-26115
Ten-year forecasts of water quality in Lake Michigan using a deterministic eutrophication model
[DE84-011425] 21 p3437 N84-31804
LAKE ONTARIO
LANDSAT 4 band 6 data evaluation
[E84-10054] 05 p0697 N84-14574
LANDSAT 4 band 6 data evaluation
[E84-10175] 21 p3427 N84-31737
LAKE SUPERIOR
Crystalline rocks of the Lake Superior region, United States, part 2
[DE84-014802] 23 p3799 N84-34087
LAKES
NT GREAT LAKES (NORTH AMERICA)
NT LAKE ERIE
NT LAKE MICHIGAN
NT LAKE ONTARIO
NT LAKE SUPERIOR
Activities in hydraulics
02 p0235 N84-11542
A study of Minnesota land and water resources using remote sensing
[E84-10023] 02 p0237 N84-11558
Limnology, second edition
[DE83-016792] 03 p0402 N84-12627
World-wide sea-surface temperatures
[AD-A131892] 03 p0411 N84-12689
Dissolved organic matter and lake metabolism: Biochemistry and controls of nutrient flux dynamics in lakes
[DE83-016789] 04 p0571 N84-13761
Assessment of acidity of lakes and precipitation in the Sierra Nevada
[PB83-255521] 05 p0701 N84-14603
Water resources data for Virginia, water year 1982
[PB84-118553] 09 p1340 N84-18751
Water resources data for Montana, water year 1982. Volume 2: Columbia River Basin
[PB84-118561] 09 p1340 N84-18752
Water resources data for New York, water year 1982. Volume 3: Western New York
[PB84-119544] 10 p1527 N84-20003
Computer simulation of phosphorus cycling in the sediment-water system of eutrophic lakes
[PB84-140573] 11 p1672 N84-20912
An isotopic and chemical study of Lake Vanda and Don Juan Pond, Antarctica
14 p2163 N84-23952
Climatic significance of lacustrine deposits around Lake Vanda and Don Juan Pond, Antarctica
14 p2163 N84-23953
Investigating spatial distribution of phytoplankton in Lake Baykal by optical methods
19 p2976 N84-28868
A first evaluation of LANDSAT TM data to monitor suspended sediments in lakes
20 p3215 N84-30425
LAMBERT SURFACE
Diffusely reflecting paints including polytetrafluoroethylene and method of manufacture
[NASA-CASE-GSC-12883-1] 15 p2300 N84-24806
LAME FUNCTIONS
Ellipsoidal magnetostatic shield
17 p2638 N84-26877
LAMINA
U LAYERS
LAMINAR BOUNDARY LAYER
Unsteady compressible laminar boundary-layer flow within an expension wave
[AD-A131889] 03 p0371 N84-12420

Numerical solution of the two-phase, three dimensional boundary layer in laminar film condensation over a curved surface 03 p0375 N84-12442

Investigation of the wall pressure, wall shear stress and velocity fields associated with a turbulent spot in a laminar boundary layer 04 p0531 N84-13488

Embedded cavity drag in steady and unsteady flows [NASA-CR-172275] 04 p0531 N84-13493

A flight test of laminar flow control leading-edge systems [NASA-TM-85712] 05 p0625 N84-14110

An experimental study of the response of a nearly isotropic grid turbulence to a spectrally local disturbance and an investigation of the coherent structures associated with a turbulent spot in a laminar boundary layer 05 p0678 N84-14459

On the relationship between transitional and fully turbulent shear flow [AD-A133808] 05 p0680 N84-14469

The response of a laminar boundary layer to sound and wall vibration [AD-A132843] 05 p0681 N84-14474

Interacting boundary-layer solutions for laminar separated flow past airfoils [NASA-CR-172267] 07 p0946 N84-16140

Stability of the laminar boundary layer in a streamwise corner [NASA-CR-173282] 08 p1157 N84-17532

Engineering correlations of variable-property effects on laminar forced convection mass transfer for dilute vapor species and small particles in air [NASA-CR-168322] 09 p1313 N84-18578

The hydrodynamic stability of a supersonic laminar boundary layer over a rough wall [AD-A137056] 10 p1422 N84-19299

Three dimensional/boundary layer interaction: Laminar and turbulent behaviour [AD-A137060] 10 p1493 N84-19765

Interaction of aerodynamic noise with laminar boundary layers in supersonic wind tunnels [NASA-CR-3621] 11 p1651 N84-20781

The changing scene in computational fluid dynamics [AD-A138661] 13 p1989 N84-22914

Experimental observations of vortex ring interaction with the fluid adjacent to a surface [AD-A138999] 13 p1990 N84-22917

A rapid method for predicting suction distributions to maintain attached, laminar boundary layers on bodies of revolution [AD-A139125] 14 p2145 N84-23856

Turbulence effect on laminar separation on a circular cylinder 15 p2314 N84-24889

Fundamentals of hypersonics: Aerodynamics and heat transfer 16 p2441 N84-25660

Three-dimensional laminar separation [AD-A140378] 16 p2493 N84-25993

Natural laminar flow experiments on modern airplane surfaces [NASA-TP-2256] 17 p2599 N84-26660

Effect of acoustic perturbations on flow structure in boundary layer with unfavorable pressure gradient 17 p2648 N84-26935

Numerical solution for the interaction of shock wave with laminar boundary layer in two-dimensional flow on a flat plate [NASA-TM-77408] 19 p3022 N84-29160

An inverse laminar boundary layer problem with assigned wall shear: The mechul function revisited [AD-A142328] 19 p3025 N84-29182

Development of a self-adapted error-controlled difference method to solve the three-dimensional laminar incompressible boundary layer equations by numerically given contours determined by points [REPT-24/83] 19 p3025 N84-29186

Representation of potential flow about axisymmetric bodies with discrete singularities [AD-A143526] 22 p3594 N84-32760

Measurement of skin friction in unsteady boundary layers using a flush-mounted hot-film gage [PB84-197995] 22 p3596 N84-32773

Aerodynamic design of the contoured wind-tunnel liner for the NASA supercritical, laminar-flow-control, swept-wing experiment [NASA-TP-2335] 23 p3688 N84-33377

Laminar flow control - viscous simulation 23 p3749 N84-33764

LAMINAR BOUNDARY LAYER SEPARATION
U LAMINAR BOUNDARY LAYER

LAMINAR FLAMES
U FLAMES
U LAMINAR FLOW

LAMINAR FLOW
NT STRATIFIED FLOW

Transonic airfoil development 03 p0317 N84-12076

Steady laminar natural convection in open rectangular cavities 03 p0375 N84-12441

Effects of pressure-drop correlations on Stirling-engine predicted performance [DE83-017279] 03 p0384 N84-12501

Response of flame spread phenomena to ambient air stream velocity changes 04 p0514 N84-13373

Finite-element analysis of incompressible laminar and turbulent flow with heat transfer [DE84-000042] 04 p0536 N84-13523

Studies of flame spread in an opposed flow over surfaces of solid fuels 05 p0652 N84-14286

Global pressure relaxation procedure for laminar and turbulent incompressible flows with strong interaction and separation 05 p0683 N84-14490

Transport algorithms for methane flames [AD-A133213] 06 p0801 N84-15221

A finite difference technique for laminar and turbulent compressible boundary layers 06 p0835 N84-15433

The effects of acoustic excitation on the mixing of two parallel laminar streams of fluid [AD-A126788] 06 p0843 N84-15502

High-temperature direct absorption research [DE84-000019] 07 p1003 N84-16505

Finite element method for incompressible laminar boundary layer flows 08 p1096 N84-17126

Finite analytic numerical solutions of laminar and turbulent convective heat transfer for pipe flow past a cavity 08 p1154 N84-17515

Vapor-liquid phase separator studies [NASA-CR-166545] 08 p1156 N84-17527

Developing flow in S-shaped ducts. 2: Circular cross-section duct [NASA-CR-3759] 09 p1312 N84-18572

Analysis of three-dimensional viscous internal flows [AD-A135762] 09 p1315 N84-18592

Predicting the onset of turbulence in the presence of a pressure gradient [AD-A136980] 10 p1493 N84-19760

Laminarization effects on the dynamics of a disk levitated by incompressible fluid flow [DE84-003612] 10 p1494 N84-19770

On bifurcation phenomena in conical flow patterns [VTH-LR-378] 10 p1495 N84-19779

Kinetic mechanisms for premixed, laminar, steady state methane/air flames [AD-A137263] 11 p1629 N84-20658

Laminar condensation heat and mass transfer to a drop moving at intermediate or high Reynolds number 11 p1651 N84-20777

Design of single component airfoils using an inverse boundary element method [REPT-83-A2-SER-A] 12 p1765 N84-21512

Design desiderata for a laminar flow quadrupole-focused acceleration column [DE84-006534] 12 p1903 N84-22395

Energetics of vortex ring formation [AD-A136795] 13 p1927 N84-22539

Transonic flow around protruding corner with free streamline 13 p1972 N84-22796

Theoretical studies of solid particles in laminar and turbulent flows [KU-SFB-80/T/223] 14 p2146 N84-23863

High rate straining and mechanical properties of materials [QUEL-1502/83] 15 p2350 N84-25106

La Recherche Aerospatiale, Bimonthly Bulletin, number 1983-S, 216/September - October [ESA-TT-836] 15 p2402 N84-25419

The orientation distribution on nonspherical aerosol particles within a cloud [AD-A140470] 16 p2526 N84-26216

Natural laminar flow experiments on modern airplane surfaces [NASA-TP-2256] 17 p2599 N84-26660

Solution of 3-dimensional time-dependent viscous flows. Part 3: Application to turbulent and unsteady flows [NASA-CR-166565-PT-3] 17 p2667 N84-27003

F-111 TACT natural laminar flow glove flight results 18 p2763 N84-27662

Recent modifications and calibration of the Langley low-turbulence pressure tunnel [NASA-TP-2328] 18 p2785 N84-27675

An investigation of the interaction of vortex rings and a laminar free jet flow [MPIS-16/1983] 18 p2837 N84-28009

Unsteady laminar natural convection inside an annular cavity [CFD-83/8] 18 p2838 N84-28014

A preliminary design study on an acoustic muffler for the laminar flow transition research apparatus [NASA-CR-172374] 19 p2958 N84-28748

Investigation of laminar shocks [DE84-010074] 20 p3242 N84-30582

Theoretical and experimental investigations of asymmetric turbulent supersonic free shear layers 21 p3323 N84-31088

A selection principle in Benard-type convection [NASA-CR-173869] 21 p3398 N84-31559

Pressure effects on wall heat transfer during flame quenching [DE84-012265] 21 p3401 N84-31575

Transition from laminar to turbulent flow under action of acoustic vibrations 21 p3480 N84-32056

High-efficiency particulate air filter behavior at high-speed flows [DE84-014137] 22 p3595 N84-32769

Unsteady heat transfer during laminar flame quenching [DE84-006301] 23 p3715 N84-33550

Unsteady heat transfer during the interaction of a laminar flame with a cold wall 23 p3745 N84-33739

Laminar convection with buoyancy in tube flows with a surrounding liquid medium 23 p3745 N84-33740

Heat transfer from a circular cylinder due to a slot jet impingement 23 p3746 N84-33747

Special Course on Stability and Transition of Laminar Flow [AGARD-R-709] 23 p3748 N84-33757

Transition description and prediction in three-dimensional flows 23 p3748 N84-33761

Nonlinear effects in hydrodynamic stability 23 p3748 N84-33762

Secondary instability of shear flows 23 p3748 N84-33763

Laminar flow control - viscous simulation 23 p3749 N84-33764

Stability of laminar electron layers [AD-A143788] 23 p3822 N84-34235

LAMINAR FLOW AIRFOILS

Geometries for roughness shapes in laminar flow [NASA-CASE-LAR-13255-1] 03 p0320 N84-12092

Design of single component airfoils using an inverse boundary element method [REPT-83-A2-SER-A] 12 p1765 N84-21512

LAMINAR FLOW CONTROL
U BOUNDARY LAYER CONTROL
U LAMINAR BOUNDARY LAYER

LAMINAR HEAT TRANSFER

Unsteady compressible laminar boundary-layer flow within an expansion wave [AD-A131889] 03 p0371 N84-12420

Numerical solution of the two-phase, three dimensional boundary layer in laminar film condensation over a curved surface 03 p0375 N84-12442

Experimental investigation of turbulent heat transfer in straight and curved rectangular ducts [AD-A136239] 09 p1313 N84-18581

The calculation of the heat transfer associated with the injection of methane gas at the stagnation point of the dissociated boundary layer of the laminar air flow [AD-A139063] 13 p1990 N84-22918

LAMINAR JETS
U JET FLOW
U LAMINAR FLOW

LAMINAR MIXING

Composition alteration of stratospheric air due to sampling through a flow tube: Environmental research papers [AD-A143319] 22 p3623 N84-32959

LAMINATED MATERIALS
U LAMINATES

LAMINATES
NT PLYWOOD

Advanced fatigue damage development in graphite epoxy laminates [AD-A130190] 01 p0031 N84-10194

Transverse shear effects in bimodular composite laminates [AD-A130261] 01 p0031 N84-10195

Characterization, Analysis and Significance of Defects in Composite Materials [AGARD-CP-355] 01 p0032 N84-10203

Growth of delaminations under fatigue loading 01 p0033 N84-10208

Experimental investigation of delaminations in carbon fibre composite 01 p0033 N84-10209

The effect of damage on the tensile and compressive performance of carbon fibre laminates 01 p0034 N84-10213

Behavior of idealized discontinuities and impact damages in CFRP under fatigue loading 01 p0034 N84-10214

Beta titanium alloy metal-metal laminates: Fabrication, structure and mechanical properties [AD-A130378] 01 p0043 N84-10278

Insulation-resistance measurements of coated and uncoated printed wiring boards [DE83-015457] 01 p0074 N84-10489

Fracture mechanics of sub-laminate cracks
[AD-A130782] 01 p0096 N84-10623
Examination, evaluation and repair of laminated wood blades after service on the Mod-OA wind turbine
[NASA-TM-83483] 01 p0102 N84-10684
Composite laminate weight optimization on the Timex-Sinclair 1000 microcomputer
[AD-A130214] 01 p0121 N84-10789
Modifications of the boundary-element method for application to bending of layered composites
02 p0187 N84-11217
On the optimal design of bidirectional composites
[AD-A131353] 02 p0188 N84-11221
Three-dimensional analysis of composite plates with material nonlinearity
[AD-A131884] 03 p0347 N84-12258
Vibration response of geometrically nonlinear elastic beams to pulse and impact loading
[NASA-CR-174495] 03 p0388 N84-12527
The mechanics of delamination in fiber-reinforced composite materials. Part 1: Stress singularities and solution structure
[NASA-CR-172285] 04 p0491 N84-13221
The mechanics of delamination in fiber-reinforced composite materials. Part 2: Delamination behavior and fracture mechanics parameters
[NASA-CR-172270] 04 p0491 N84-13222
Research on composite materials for structural design
[AD-A134059] 05 p0645 N84-14242
Bending of beams, plates and laminates: Refined theories and comparative studies
05 p0691 N84-14540
Recognizing defects in carbon-fiber reinforced plastics
[NASA-TM-76947] 06 p0786 N84-15143
Analysis of local delaminations and their influence on composite laminate behavior
[NASA-TM-85728] 06 p0786 N84-15199
Analysis of interlaminar stresses in thick composite laminates with and without edge delamination
[NASA-TM-85738] 06 p0786 N84-15201
Rubber-modified epoxy and glass laminates for application to naval ship structures
[AD-A133305] 06 p0786 N84-15204
Fatigue damage-strength relationships in composite laminates. Volume 1
[AD-A133485] 06 p0799 N84-15206
Composite laminate weight optimization on the HX-20
[AD-A133490] 06 p0799 N84-15207
Biaxial fatigue of graphite/epoxy + or - 45 sub s tubes
06 p0799 N84-15210
Stiffness properties for dynamic modeling of composite graphite-epoxy cylindrical orthotropic shells
06 p0932 N84-16054
A generalized couple theory of hygrothermal-elasticity: Transient effects in composite laminate with circular cavity
[AD-A134376] 07 p0966 N84-16271
Composite laminate weight optimization on the sharp PC-1500 pocket computer
[AD-A133348] 07 p0968 N84-16272
Optimization of laminated composite cylindrical shells for axial buckling 07 p0985 N84-16377
Buckling of flat rectangular orthotropic plates - computer program. (Application to laminated composite plates)
[ESDU-81047] 07 p1014 N84-16560
Some thoughts on 3-D isoparametric elements
[ARL-STRUC-NOTE-489] 07 p1059 N84-16860
An accurate theory and simple fourth order governing equations for orthotropic and composite cylindrical shells
[AD-A134532] 07 p1062 N84-16886
Effects of JP-4 fuel on Graphite/Epoxy composites
[AD-A135416] 08 p1122 N84-17296
Embedded gage impact study
[NASA-CR-172227] 08 p1161 N84-17558
Evaluation of a biaxial test fixture
[AD-A134845] 08 p1171 N84-17629
Buckling of a sublaminate in a quasi-isotropic composite laminate
[NASA-TM-85755] 09 p1275 N84-18325
Influence of constituent properties and geometric form on behavior of woven fabric reinforced composites
[NASA-CR-173326] 09 p1275 N84-18326
Determination of the effect of strain rate on the mechanical properties of graphite-epoxy laminates
[AD-A136334] 09 p1276 N84-18328
Development and application of optimization techniques for composite laminates
[AD-A135832] 09 p1276 N84-18330
Fatigue-induced and time-dependent changes in thermomechanical properties of hybrid composite laminates
[PB84-126333] 09 p1277 N84-18336
Exact and finite-element analysis of laminated shells
[AD-A135849] 09 p1332 N84-18695
SH wave propagation in a laminated composite
11 p1627 N84-20646
Fracture behavior of thick, laminated graphite/epoxy composites
[NASA-CR-3784] 11 p1627 N84-20648
Improved impact tolerant material
[NASA-CASE-LAR-12887-1] 11 p1627 N84-20649
Superplastic bonding and ultrahigh carbon steel laminated composites
[AD-A137807] 11 p1627 N84-20651
A critical evaluation of new plate theories applied to laminated composites
[AD-A137789] 11 p1668 N84-20883
Influence of anisotropy and viscosity on propagation on waves in multilayer cylinders 12 p1788 N84-21660
Analysis of unsteady processes caused by nonaxisymmetrical loading of finite multilayer cylinders
12 p1788 N84-21661
On the effects of post cure cool down and environmental conditioning on residual stresses in composite laminates
12 p1788 N84-21663
Edge crack growth of thermally aged graphite/polyimide composites
[NASA-TM-85763] 12 p1789 N84-21667
A survey of macroscopic failure criteria for composite materials
[AD-A136091] 12 p1789 N84-21670
The peel strength of aramid aluminum laminate (ARALL)
[VTH-LR-397] 12 p1790 N84-21673
Aramid Aluminum Laminate (ARALL): A material for the next generation of aircraft, a state of the art
[VTH-LR-400] 12 p1790 N84-21674
An assessment of the static strength of flush head aluminum alloy rivets in two grades of aramid aluminium laminate (ARALL) sheet
[VTH-LR-391] 12 p1827 N84-21913
Dependence of burning rate of AP-polymer sandwiches on thickness of the binder laminae
13 p1946 N84-22653
Fire and heat resistant laminating resins based on maleimido substituted aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11426-1] 13 p1953 N84-22697
Large deformation behavior of long shallow cylindrical composite panels
[NASA-CR-173286] 13 p2000 N84-22975
Britain's ICI develops new easy-to-shape composites
14 p2118 N84-23695
Assessment of microdamage development during tensile loading of graphite/epoxy laminates
[AD-A139128] 14 p2119 N84-23701
Fracture mechanics of sublaminate cracks in composite laminates
[AD-A139357] 14 p2120 N84-23706
CLFE2D: A generalized plane strain finite element program laminated composites subject to mechanical and hygrothermal loading
[NASA-CR-173507] 14 p2157 N84-23921
The use of Arall in fuselage skins
[AD-B080831] 15 p2260 N84-24572
Space exposure of composite materials for large space structures (A0134) 15 p2271 N84-24639
The effect of the space environment on composite materials (A0138-9) 15 p2272 N84-24641
Delamination growth in notched graphite/epoxy laminates under compression fatigue loading
[FFA-TN-1983-57] 15 p2284 N84-24713
Nonlinear analysis of laminated, bimodular composite material structures
[AD-A139942] 15 p2285 N84-24714
Coated flexible laminate and method of its production
[NASA-CASE-GSC-12913-1] 15 p2301 N84-24807
Effects of curing stress on intralaminar cracking in graphite-epoxy laminates 15 p2308 N84-24846
Transverse shear effects in bimodular composite laminates 15 p2309 N84-24854
Statistical fatigue and residual strength degradation model for glass polyester laminates
15 p2309 N84-24857
Effect of stress singularities on the delamination of laminated composites 15 p2310 N84-24858
Effect of initial stresses on the impact behavior of graphite-epoxy laminates 15 p2310 N84-24859
Low velocity, transverse normal impact of a clamped plate 15 p2310 N84-24860
Impact and fatigue of graphite/epoxy laminates
15 p2310 N84-24862
The effect of matrix properties and fiber properties on impact failure mechanics 15 p2310 N84-24863
Application of stress-generated heat in composites to thermographic NDT 15 p2310 N84-24864
Crack-growth resistance of laminated hybrid composites 15 p2311 N84-24866
Panasonic HR-1800 hand-held computer solutions to composite materials formulas
[AD-A139796] 15 p2391 N84-25352
Predicting the delamination of a multistage composite
[SNIAS-832-111-102] 16 p2461 N84-25771
A new method of analysis of composite structures
[SNIAS-832-210-105] 16 p2461 N84-25773
A nonlinear model of laminated plate, using combined variables 16 p2476 N84-25875
Experimental investigation of delaminations in carbon fiber composite
[MBB-FE-214/S/PUB/107] 16 p2562 N84-26434
Service-life induced failure of bird impact resistant windshields
[AD-P003195] 17 p2591 N84-26608
Interply layer degradation effects on composite structural response
[NASA-TM-83702] 17 p2618 N84-26758
Composite laminates with negative through-the-thickness Poisson's ratios
[NASA-CR-173681] 18 p2809 N84-27830
Delamination growth analysis in quasi-isotropic laminates under loads simulating low-velocity impact
[NASA-TM-85819] 18 p2809 N84-27833
A 3-dimensional finite element analysis of delamination growth in composite laminates. Part 1: The energy methods and case-study problems
[AD-A141248] 18 p2810 N84-27838
Effect of laminated structure in materials based on complexes with charge transfer
18 p2826 N84-27943
Photographic characteristics of polymer composite including complex with charge transfer
18 p2826 N84-27944
Matrix-dominated time-dependent deformation and damage of graphite epoxy composite -- experimental data under multiple-step relaxation
[AD-A141697] 19 p2986 N84-28920
Strength of bolted joints in laminated composites
[AD-A141826] 19 p2986 N84-28921
Polymeric web lens evaluation
[DE84-010106] 19 p3000 N84-29013
An explosive ordnance disposal protective suit
[AD-D011072] 19 p3071 N84-29483
Comparison of toughened composite laminates using NASA standard damage tolerance tests
20 p3145 N84-29972
Impact dynamics research on composite transport structures 20 p3146 N84-29975
A study of stiffness, residual strength and fatigue life relationships for composite laminates
[NASA-CR-172211] 20 p3146 N84-29978
Single and multiple fiber models for fracture of fibrous composites 21 p3356 N84-31286
Residual strength of five boron/aluminum laminates with crack-like notches after fatigue loading
[NASA-CR-3815] 21 p3357 N84-31290
Investigation of damage and damage propagation in static and fatigue tests on carbon epoxy composites
[SNIAS-841-551-102] 21 p3358 N84-31298
Thermal-stress analysis for wood composite blade — horizontal axis wind turbines
[NASA-CR-173830] 21 p3419 N84-31685
Nonlinear Structural Analysis
[NASA-CP-2297] 21 p3419 N84-31688
A shear deformable shell element for laminated composites 21 p3420 N84-31691
Nonlinear analysis for high-temperature composites: Turbine blades/vanes 21 p3421 N84-31699
Hygrothermal effects on mechanical behavior of graphite/epoxy laminates beyond initial failure
[NASA-TM-86001] 22 p3544 N84-32438
A simple rectangular element for 2-dimensional analysis of laminated composites
[NASA-TM-86291] 22 p3544 N84-32439
Intermodulation product levels in flame-sprayed materials 22 p3573 N84-32629
Hybrid stress reduced-Mindlin elements for thin multilayer plates with application to edge contact problems 22 p3608 N84-32657
Opening of an interface flaw in a layered elastic half-plane under compressive loading
[NASA-TM-86282] 22 p3611 N84-32877
A characterization of the fracture behavior of thick, notched, laminated graphite-epoxy composites
23 p3710 N84-33519
Analysis of instability-related growth of a through-width delamination
[NASA-TM-86301] 23 p3711 N84-33524
Refined methods of aeroelastic analysis and optimization — swept wings, propeller theory, and subsonic flutter
[NASA-CR-173967] 23 p3760 N84-33835
Fracture modes in notched angleplied composite laminates
[NASA-TM-83802] 24 p3878 N84-34576
Heat transfer characteristics of regenerator matrix (case of packed wire gauzes)
[NASA-TM-77448] 24 p3899 N84-34693
Elastic wave propagation in a periodically trilaminated composite 24 p3957 N84-35056

LAMINATIONS
U LAMINATES
LAMPS
U LUMINAIRES
LAND
NT ARID LANDS
NT BARREN LAND
NT CASCADE RANGE (CA-OR-WA)
NT COASTAL PLAINS
NT COLORADO PLATEAU (US)
NT DESERTS
NT FARMLANDS
NT FLOOD PLAINS
NT GRASSLANDS
NT MARSHLANDS
NT NATIONAL PARKS
NT RANGELANDS
NT SAHARA DESERT (AFRICA)
NT WETLANDS
Gulf stream system landward surface edge statistics
[PB84-104314] 10 p1543 N84-20112
Prescription of land-surface boundary conditions in GISS GCM 2: A simple method based on high-resolution vegetation data bases
[NASA-TM-86096] 21 p3430 N84-31761
Alaska Land Conveyance Program: A slow, complex and costly process
[PB84-207265] 22 p3674 N84-33294
LAND ICE
Snow and ice monitoring by microwave techniques
08 p1176 N84-17660
Wind erosion and dune formation on high frozen bluffs
13 p2082 N84-23493
Geophysical investigations of the Dufek intrusion and the surrounding region 14 p2161 N84-23945
Vegetation, land-use and seasonal albedo data sets: Documentation of archived data tape
[E84-10133] 15 p2357 N84-25142
Satellite remote sensing over ice
17 p2719 N84-27306
Glaciology, volume 3: The mathematical theory of glaciomechanics
[ISSN-0202-7283] 19 p3038 N84-29274
Polar glaciology 20 p3218 N84-30445
LAND MANAGEMENT
Monitoring of renewable resources (a land information system for Europe) — remote sensing
03 p0395 N84-12581
Inventoring and monitoring of landscape as a natural and cultural resource 03 p0397 N84-12594
SAR 580: Images for agricultural and forest survey. First results in middle Belgium 03 p0397 N84-12595
Resource and potential reclamation evaluation: Northeast Montana investigations
[PB84-112390] 09 p1337 N84-18734
The use of remote sensing for soils investigations on BLM lands
[PB84-132075] 10 p1527 N84-20005
Land cover and terrain mapping for the development of digital data bases for wildlife habitat assessment in the Yukon Flats National Wildlife Refuge, Alaska
14 p2166 N84-23971
Identifying environmental features for land management decisions
[E84-10125] 14 p2168 N84-23984
Revegetation methods for arid areas, revised
[AD-A139088] 14 p2170 N84-23997
Prescription of land-surface boundary conditions in GISS GCM 2: A simple method based on high-resolution vegetation data bases
[NASA-TM-86096] 21 p3430 N84-31761
Alaska Land Conveyance Program: A slow, complex and costly process
[PB84-207265] 22 p3674 N84-33294
Changes in TM response of soil scenes due to tillage, residue, and weathering — Landsat Thematic Mapper (TM) 23 p3766 N84-33874
LAND MOBILE SATELLITE SERVICE
Computer simulator for a mobile telephone system
[NASA-CR-174533] 01 p0061 N84-10401
Mobile radio alternative systems study satellite/terrestrial (hybrid) systems concepts
[NASA-CR-168064] 01 p0061 N84-10404
An analysis of noise and interference in a satellite based mobile communications system
05 p0665 N84-14369
Rural land mobile radio market assessment and satellite and terrestrial system concepts
[NASA-TM-83591] 10 p1476 N84-19641
Land Mobile Satellite Service (LMSS) channel simulator: An end-to-end hardware simulation and study of the LMSS communications links
[NASA-CR-173744] 18 p2828 N84-27956
Spectrum resource assessment in the 162-174 MHz frequency band — land mobile communications
[PB84-210244] 22 p3578 N84-32667
LAND USE
NT RURAL LAND USE
Land use inventory of Salt Lake County, Utah from color infrared aerial photography 1982
[E84-10015] 02 p0237 N84-11553
LANDSAT 4 investigations of thematic mapper and multispectral scanner applications
[E84-10017] 02 p0237 N84-11554
Land cover change monitoring within the east central Louisiana study site: A case for large area surveys with LANDSAT multispectral scanner data
[E84-10031] 02 p0238 N84-11562
Earth Resources Laboratory research and technology
[E84-10033] 03 p0395 N84-12578
Remote Sensing Applications for Environmental Studies — conferences
[ESA-SP-188] 03 p0395 N84-12579
SPOT potential applications: An overview of the results of the simulation campaigns 03 p0396 N84-12587
Actual state and recent evolution of the French coast observed by remote sensing using LANDSAT recordings
03 p0399 N84-12606
Mapping land use in Catalonia (Spain) — using LANDSAT imagery 03 p0400 N84-12613
Development of a data base for carbon dioxide releases resulting from conversion of land to agricultural uses
[DE83-015728] 03 p0402 N84-12626
Arizona State science, engineering and technology process
[PB83-237107] 03 p0458 N84-13016
Actitities report on the projet DESBOD — geographical data acquisition
[REPT-5] 03 p0460 N84-13025
The United Kingdom SATMaP program
[E84-10002] 04 p0551 N84-13627
The use of thematic mapper data for land cover discrimination: Preliminary results from the UK SATMaP programme
[E84-10038] 04 p0551 N84-13631
Photo interpretation key to Michigan land cover/use
[E84-10048] 04 p0553 N84-13641
The hardwood resource on nonindustrial private forest land in the southeast Piedmont
[PB83-252759] 04 p0556 N84-13663
Forest area and timber resource statistics for state and private lands in New Mexico, 1980, Forest Service resource bulletin
[PB83-251157] 04 p0556 N84-13667
Analysis of data acquired by synthetic aperture radar over Dade County, Florida, and Acadia Parish, Louisiana
[E84-10067] 06 p0865 N84-15636
Study of spectral/radiometric characteristics of the thematic mapper for land use applications
[E84-10058] 07 p1020 N84-16615
Urban land use of the Sao Paulo metropolitan area by automatic analysis of LANDSAT data
[E84-10060] 07 p1020 N84-16616
Strategies for using remotely sensed data in hydrologic models 07 p1022 N84-16630
Remote sensing: New satellite systems and potential applications — conferences
[ESA-SP-205] 08 p1174 N84-17650
Typical SPOT data and products: Potential applications 08 p1175 N84-17653
Land use inventory and statistical sampling in agriculture — spaceborne remote sensing
08 p1176 N84-17658
Remote sensing from space for forestry purposes
08 p1176 N84-17659
Remote sensing for agriculture and land use
08 p1177 N84-17666
Northeast Scotland coastal field guide and geographical essays
[AD-A134861] 08 p1178 N84-17674
Land use and land cover digital data
[GS-CIRC-895-E] 10 p1525 N84-19987
Classification of the California Desert for geology-energy-mineral resource potential geostatistical classification
[PB84-100668] 10 p1538 N84-20078
Identifying environmental features for land management decisions
[E84-10125] 14 p2168 N84-23984
Vegetation, land-use and seasonal albedo data sets: Documentation of archived data tape
[E84-10133] 15 p2357 N84-25142
Principal components technique analysis for vegetation and land use discrimination — Brazilian cerrados
[E84-10135] 16 p2506 N84-26083
Comparative assesment of LANDSAT-D MSS and TM data quality for mapping applications in the Southeast
[E84-10136] 16 p2506 N84-26086
Integration of LANDSAT land cover data into the Saginaw River basin geographic information system for hydrologic modeling
[AD-A140185] 16 p2510 N84-26106
Report on measurements of terrestrial radiation in the Schwandorf area and the radiological load of the river Naab
[GSF-A-6/83] 16 p2520 N84-26180
Protecting wind access: A preliminary assessment
[DE83-011970] 16 p2528 N84-26227
Airport noise and land use compatibility at downstate Illinois airports
[PB84-177377] 17 p2611 N84-26716
Use of transformed LANDSAT data in regression estimation of crop acreages 17 p2708 N84-27246
Survey of urban meteorological data
[AD-A140860] 17 p2734 N84-27360
Land use planning for sources of nonionizing electromagnetic radiation
[PB84-156363] 17 p2771 N84-27594
Research on land use cartography by remote sensing
18 p2867 N84-28201
Remote sensing of the Santonge littoral. Processing and interpretation of satellite images
[ISBN-2-85929-016-8] 18 p2867 N84-28202
Community reaction to impulsive noise: A 10-year research summary
[AD-A141762] 19 p3052 N84-29369
A preliminary assessment of LANDSAT-4 Thematic Mapper data 20 p3208 N84-30377
Impact of Thematic Mapper sensor characteristics on classification accuracy 20 p3213 N84-30410
LANDSAT-4 Thematic Mapper scene characteristics for a suburban and regional test site
20 p3216 N84-30429
Comparison of land cover information from LANDSAT Multispectral Scanner (MSS) and airborne Thematic Mapper Simulator (TMS) data for hydrologic applications
20 p3216 N84-30431
Relative accuracy assessment of LANDSAT-4 MSS and TM data for level 1 land cover inventory
20 p3217 N84-30432
Wetlands: Their use and regulation
[PB84-175918] 20 p3239 N84-30561
Debris Flows, Landslides, and Floods in the San Francisco Bay Region, January 1982: Overview and summary of a conference
[PB84-194737] 20 p3243 N84-30580
Mapping project on land use changes in the carboniferous region of Santa Catarina
[NASA-CR-173948] 23 p3763 N84-33853
Structural description of a LANDSAT Thematic Mapper (TM) scene for improved region-based classification
23 p3766 N84-33873
Fast automatic reconnaissance in land observations images by means of analog and/or digital images
23 p3768 N84-33885
Investigation of texturing functions. Application to ecographical zoning and to mapping land use in a sloping basin: The Aveyron
[CESR-83-1099] 23 p3784 N84-34001
LANDAU DAMPING
Thresholds of Raman backscatter: Effects of collisions and Landau damping
[DE84-003736] 08 p1233 N84-18080
Linear theory of lower hybrid heating
[DE84-010577] 20 p3303 N84-30979
LANDAU FACTOR
Whistler mode turbulence at Earth's bow shock: Generation via electron beams and ray path integrated amplification 17 p2726 N84-27349
LANDFORMS
NT ALEUTIAN ISLANDS (US)
NT ALPS MOUNTAINS (EUROPE)
NT ANDES MOUNTAINS (SOUTH AMERICA)
NT APPALACHIAN MOUNTAINS (NORTH AMERICA)
NT ASSATEAGUE ISLAND (MD-VA)
NT BARRIERS (LANDFORMS)
NT BARS (LANDFORMS)
NT BEDS (GEOLOGY)
NT BIGHORN MOUNTAINS (MT-WY)
NT BLACK HILLS (SD-WY)
NT BUTTES
NT CALDERAS
NT CANALS
NT CANYONS
NT CASCADE RANGE (CA-OR-WA)
NT CIRQUES (LANDFORMS)
NT COLORADO PLATEAU (US)
NT COLUMBIA RIVER BASIN (ID-OR-WA)
NT DELAWARE RIVER BASIN (US)
NT DELMARVA PENINSULA (DE-MD-VA)
NT DELTAS
NT DUNES
NT ESCARPMENTS
NT FLATS (LANDFORMS)
NT GRAND CANYON (AZ)
NT GREENLAND
NT HAITI
NT HAWAII

NT HIMALAYAS
NT ICELAND
NT INDONESIA
NT INLETS (TOPOGRAPHY)
NT ISLAND ARCS
NT ISLANDS
NT JAMAICA
NT JAPAN
NT KARST
NT KURILE ISLANDS
NT LAGOONS
NT MARS VOLCANOES
NT MASSIFS
NT MISSISSIPPI DELTA (LA)
NT MISSOURI RIVER BASIN (US)
NT MOUNTAINS
NT NEW GUINEA (ISLAND)
NT NEW ZEALAND
NT PACIFIC ISLANDS
NT PANAMA CANAL ZONE
NT PHILIPPINES
NT PIEDMONTS
NT PLATEAUS
NT PUERTO RICO
NT REEFS
NT RIVER BASINS
NT SALT BEDS
NT SAN JUAN MOUNTAINS (CO)
NT SICILY
NT SIERRA NEVADA MOUNTAINS (CA)
NT STRUCTURAL BASINS
NT VOLCANOES
NT WATERSHEDS
NT WIND RIVER RANGE (WY)

Geomorphic studies of Mars 03 p0465 N84-13063
Reports of planetary geology program, 1983
[NASA-TM-86246] 13 p2073 N84-23431
Geomorphic clues to the Martian volatile inventory. 1: Flow ejecta blankets 13 p2079 N84-23474
Dark streaks on talus slopes, Mars 13 p2084 N84-23499
Glacial and periglacial landforms in Denmark: Scandinavian analogs for Martian features 13 p2085 N84-23507
Curvilinear ground on Mars: The search for terrestrial analogs 13 p2085 N84-23508
Temporal and spatial distribution of exhumed topography 13 p2087 N84-23517
Stratigraphy and sedimentology of the upper Proterozoic Kingston Peak Formation, Panamint Range, eastern California 22 p3620 N84-32939

LANDING
NT AIRCRAFT LANDING
NT CRASH LANDING
NT DITCHING (LANDING)
NT GLIDE LANDINGS
NT MARS LANDING
NT SPACECRAFT LANDING
NT WATER LANDING

Simulator evaluation of a remotely piloted vehicle lateral landing task using a visual display
[NASA-TM-85903] 20 p3131 N84-29685

LANDING AIDS
NT ALL-WEATHER LANDING SYSTEMS
NT APPROACH INDICATORS
NT AUTOMATIC LANDING CONTROL
NT INSTRUMENT LANDING SYSTEMS
NT MICROWAVE LANDING SYSTEMS
NT RUNWAY LIGHTS

Marine Air Traffic Control And Landing System (MATCALS) investigation
[AD-A130309] 01 p0007 N84-10045
Standard Engineering Installation Package. Ground control approach radar systems and radome(S)
[AD-A130726] 01 p0006 N84-10430
Advanced symbology for general aviation approach to landing displays 03 p0313 N84-12039
Evaluation and analysis of experience reports concerning wind shear problems
[DFVLR-FB-83-19] 07 p0949 N84-16159
Visual slant misperception and the Black-Hole landing situation
[NASA-TM-85866] 07 p1049 N84-16795
Marking and lighting of unpaved runways - inservice testing
[AD-A140958] 18 p2797 N84-27751
Airport safety technology: Washington National Airport
[GPO-34-406] 23 p3696 N84-33423

LANDING GEAR
Preflight transient dynamic analyses of B-52 aircraft carrying Space Shuttle solid rocket booster drop-test vehicle
[NASA-TM-84925] 06 p0858 N84-15588
Computer program for preliminary helicopter design
[AD-A136026] 09 p1256 N84-18197
Experimental and analytical investigation of active loads control for aircraft landing gear 10 p1510 N84-19886
Safety recommendation: Cessna Model 402C airplane, September 5, 1983, Tampa International Airport, Tampa, Florida 16 p2444 N84-25680
Validation of an Active Gear, Flexible Aircraft Take-off and Landing analysis (AGFATL)
[NASA-TP-2353] 22 p3534 N84-32378

LANDING INSTRUMENTS
NT APPROACH INDICATORS

LANDING SIMULATION
VTOL shipboard letdown guidance system analysis
[NASA-CR-166519] 16 p2451 N84-25716

LANDING SITES
Laser remote sensing of atmospheric pollutants
[AD-A130259] 01 p0103 N84-10670
Safe havens: Selecting landing sites for Viking 24 p3991 N84-35257
Site certification and landing 24 p3991 N84-35258

LANDING SYSTEMS
U LANDING AIDS

LANDSAT SATELLITES
NT LANDSAT 4
NT LANDSAT 5

Multi-temporal analysis of LANDSAT imagery for bathymetry
[AD-A130648] 01 p0100 N84-10652
Spatial filtering for enhancing point targets in images from a space-based mosaic IR detector
[AD-A132248] 04 p0521 N84-13425
Deforestation measured by LANDSAT: Steps toward a method
[DE83-016645] 04 p0554 N84-13652
A satellite study of ocean internal waves
[PB83-248708] 04 p0556 N84-13661
Use of LANDSAT MSS (multispectral scanner) digital data in water quality mapping of the Neuse River estuary, North Carolina
[PB83-256750] 06 p0867 N84-15645
Use of coregistered radar, visible and IR images for geologic remote sensing 07 p0987 N84-16393
SIR-A aids regional geology: Comparisons of SIR-A imagery with SLAR and LANDSAT over Guyana, Venezuela, Nicaragua and Mali 07 p0988 N84-16401
CNPq/INPE LANDSAT system
[E84-10071] 07 p1020 N84-16618
Current trends and research challenges in land remote sensing 08 p1174 N84-17651
Estimation of small area populatons using remote sensing and other approaches
[DE84-003404] 08 p1178 N84-17678
Test of the use of LANDSAT imagery to detect changes in the area of forest in the tropics
[DE84-004444] 08 p1179 N84-17680
Analysis of sea ice in the Sea of Okhotsk using LANDSAT-MSS data (comparison with GMS data) 09 p1347 N84-18799
Proceedings of the Fourth Meeting of the LANDSAT Technical Working Group (LTWG). Attachments
[LIB-PRO-0012] 10 p1523 N84-19971
LANDSAT-4 commercialization update 10 p1523 N84-19974
Summary of LANDSAT Technical Working Group (LTWG) meetings 10 p1524 N84-19984
The use of remote sensing for soils investigations on BLM lands
[PB84-132075] 10 p1527 N84-20005
The commercialization of meteorological and land remote-sensing satellites
[GPO-20-901] 11 p1622 N84-20614
Land cover and terrain mapping for the development of digital data bases for wildlife habitat assessment in the Yukon Flats National Wildlife Refuge, Alaska 14 p2166 N84-23971
Hydrology of the North Slope, Alaska 14 p2166 N84-23973
Proceedings of the Fourth Meeting of the LANDSAT Technical Working Group (LTWG), volume 1
[LIB-PRO-0012-VOL-1] 15 p2357 N84-25144
Correlating aerial photographs to LANDSAT Multispectral Sensor (MSS) data to measure ground control points 15 p2358 N84-25150
Preserve the sense of Earth from space
[DE84-900854] 15 p2359 N84-25159
Digital processing of LANDSAT data for the preparation of a land use map of the rural district surrounding Tuebingen to a scale of 1:50000
[ESA-TT-816] 16 p2509 N84-26104
On the relationship between Gaussian and binomial models for image registration by sequential tests of hypotheses
[INPE-3047-PRE/470] 16 p2548 N84-26350
Use of transformed LANDSAT data in regression estimation of crop acreages 17 p2708 N84-27246
Research on land use cartography by remote sensing 18 p2867 N84-28201
Remote sensing of the Santonge littoral. Processing and interpretation of satellite images
[ISBN-2-85929-016-8] 18 p2867 N84-28202
Registration of a LANDSAT image to DTM (Digital Terrain Matrix): An error analysis
[AD-A141766] 19 p3041 N84-29297
Applications of texture analysis for rock types discrimination, phase 2
[AD-A142268] 19 p3042 N84-29303
Impact of LANDSAT MSS sensor differences on change detection analysis 20 p3212 N84-30408
Forest environments 20 p3218 N84-30439
Geology 20 p3218 N84-30442
Earth Observing System, introduction 20 p3219 N84-30451
The effect of spatial, spectral and radiometric factors on classification accuracy using thematic mapper data
[NASA-TM-85995] 20 p3227 N84-30510
Lineaments of Texas: Possible surface expressions of deep-seated phenomena
[DE84-010827] 21 p3445 N84-31858
The compression of digital imagery by transformation
[INPE-2893-PRE/412] 22 p3639 N84-33073
The Land Remote-Sensing Commercialization Act of 1984
[GPO-33-947] 23 p3762 N84-33848
International implications of proposed sale of LANDSAT satellite
[GPO-31-310] 23 p3763 N84-33849
Sale of LANDSAT could adversely affect international relations
[H-REPT-98-1108] 23 p3763 N84-33850
A comparative study of different products of sensor systems applied in a lithologic-structural analysis of the Quadrilatero Ferrifero area, Minas Gerais
[INPE-3210-TDL/174] 23 p3764 N84-33856
Spectral significance of Modular Optoelectronic Multispectral Scanner (MOMS) versus LANDSAT data and future aspects: Preliminary results 23 p3765 N84-33864
Modular Optoelectronic Multispectral Scanner (MOMS) data of Bolivia: Comparison with LANDSAT Multispectral Scanner (MSS) and geological interpretation 23 p3765 N84-33865
The effect of spatial, spectral and radiometric factors on classification accuracy using Thematic Mapper data 23 p3766 N84-33872
Structural description of a LANDSAT Thematic Mapper (TM) scene for improved region-based classification 23 p3766 N84-33873
Automatic analysis of bitemporal LANDSAT data: An application to the study of the evolution of vegetation-covered areas in a tropical region 23 p3768 N84-33887
An approach for agricultural drought monitoring using NOAA/AVHRR and LANDSAT imagery 23 p3769 N84-33893
Interpretation of combined LANDSAT-Heat Capacity Mapping Mission (HCMM) data for geological analysis. Evaluation of scale effect on interpretation of a multisource image 23 p3769 N84-33894
Comparative geologic analysis of LANDSAT and Schuttle Imaging Radar (SIR)-A images of the Adrar des Iforas area in NE Mali 23 p3769 N84-33895
Statistical lineament analysis in South Greenland based on LANDSAT imagery 23 p3770 N84-33901
A splash and sheet erosion model from LANDSAT data 23 p3771 N84-33903
Calculation of flood hydrographs using satellite-derived land-use information in the Dreisam watershed, S. W. Germany 23 p3771 N84-33904
A textural image of Algiers — Landsat 23 p3784 N84-33996
The derivation of the mapping equations and distortion formulae for the satellite tracking map projections
[AD-A143683] 23 p3784 N84-33998
Remote sensing of coastal environment: The estuarine processes of Ta-Tu River 24 p3955 N84-35039

LANDSAT 4
Evaluation of LANDSAT-4 TM and MSS ground geometry performance without ground control
[E84-10022] 01 p0099 N84-10644
LANDSAT 4 band 6 data evaluation
[E84-10001] 02 p0235 N84-11543
Study of LANDSAT-D thematic mapper performance as applied to hydrocarbon exploration
[E84-10003] 02 p0235 N84-11544
LANDSAT-D thematic mapper image dimensionality reduction and geometric correction accuracy
[E84-10011] 02 p0236 N84-11549
LANDSAT 4 band 6 data evaluation
[E84-10012] 02 p0236 N84-11550

Investigation of radiometric properties of the LANDSAT-4 multispectral scanner
[E84-10013] 02 p0236 N84-11551
LANDSAT-4 thematic mapper Modulation Transfer Function (MTF) evaluation
[E84-10014] 02 p0236 N84-11552
LANDSAT 4 investigations of thematic mapper and multispectral scanner applications
[E84-10017] 02 p0237 N84-11554
Evaluation of spatial, radiometric and spectral thematic mapper performance for coastal studies
[E84-10018] 02 p0237 N84-11555
CCRS proposal for evaluating LANDSAT-D MSS and TM data
[E84-10026] 02 p0238 N84-11560
Analysis of the quality of image data acquired by the LANDSAT-4 thematic mapper and multispectral scanners
[E84-10028] 02 p0238 N84-11561
LANDSAT 4 investigations of thematic mapper and multispectral scanner applications
[E84-10006] 03 p0392 N84-12555
Information content of data from the LANDSAT 4 Thematic Mapper (TM) and multispectral scanner (MSS)
[E84-10034] 04 p0551 N84-13626
LANDSAT 4 image data quality analysis
[E84-10036] 04 p0551 N84-13629
The use of linear feature detection to investigate thematic mapper data performance and processing
[E84-10037] 04 p0551 N84-13630
The use of thematic mapper data for land cover discrimination: Preliminary results from the UK SATMaP programme
[E84-10038] 04 p0551 N84-13631
Comparative assessment of LANDSAT-4 MSS and TM data quality for mapping applications in the southeast
[E84-10040] 04 p0551 N84-13633
Analysis of the quality of image data acquired by the LANDSAT-4 Thematic Mapper (TM) of the Black Hills area, South Dakota
[E84-10041] 04 p0552 N84-13634
Analysis of multispectral scanner (MSS) and Thematic Mapper (TM) performance (pre-launch and post-launch)
[E84-10043] 04 p0552 N84-13636
In-flight absolute radiometric calibration of the thematic mapper
[E84-10044] 04 p0552 N84-13637
Spectroradiometric calibration of the thematic mapper and multispectral scanner system
[E84-10045] 04 p0552 N84-13638
Evaluation of radiometric and geometric characteristics of LANDSAT-D imaging system
[E84-10050] 04 p0553 N84-13643
LANDSAT-4 sensor performance
[E84-10053] 05 p0697 N84-14573
LANDSAT 4 band 6 data evaluation
[E84-10054] 05 p0697 N84-14574
Thematic mapper radiomtric variability on ostensibly uniform agricultural scenes
[E84-10035] 06 p0864 N84-15626
In-flight absolute radiometric calibration of the thematic mapper
[E84-10064] 06 p0865 N84-15633
Spectral characterization of the LANDSAT thematic mapper sensors
[E84-10065] 06 p0865 N84-15634
Landsat 4 TM-data: Examples of resolution capacity
[FOA-C-30329-E1] 06 p0867 N84-15644
An initial analysis of LANDSAT 4 Thematic Mapper data for the classification of agricultural, forested wetland, and urban land covers
[E84-10073] 07 p1020 N84-16620
Investigation of several aspects of LANDSAT-4 data quality
[E84-10076] 07 p1021 N84-16623
LANDSAT-4 horizon scanner performance evaluation
[E84-10079] 07 p1022 N84-16626
LANDSAT-4 horizon scanner full orbit data averages
[E84-10080] 07 p1022 N84-16627
Comparison of the information content of data from the LANDSAT 4 Thematic Mapper and the multispectral scanner
[E84-10081] 08 p1173 N84-17641
An analysis of new techniqes for radiometric correction of LANDSAT-4 Thematic Mapper images --- Terrebonne Bay, Louisiana and Grand Bahamas scenes
[E84-10086] 10 p1521 N84-19957
Evaluation of spatial, radiometric and spectral Thematic Mapper performance for coastal studies
[E84-10093] 10 p1522 N84-19964
Demonstration of angular anisotropy in the output of Thematic Mapper
[E84-10095] 10 p1522 N84-19965
CCRS proposal for evaluating LANDSAT-4 MSS and TM data
[E84-10096] 10 p1522 N84-19966
Revised radiometric calibration technique for LANDSAT-4 Thematic Mapper data by the Canada Centre for Remote Sensing 10 p1522 N84-19967
Revised radiometric calibration technique for LANDSAT-4 Thematic Mapper data 10 p1522 N84-19968
LANDSAT-4 MSS interband registration 10 p1523 N84-19969
LANDSAT-MSS multitemporal registration --- Ottawa, Canada 10 p1523 N84-19970
LANDSAT-D communication systems in-orbit performance 10 p1523 N84-19972
LANDSAT-4 status 10 p1523 N84-19973
Radiometric calibration and geocoded precision processing of LANDSAT-4 MSS products 10 p1523 N84-19975
Operational status of the LANDSAT-5 ground station 10 p1523 N84-19976
Current status of th Brazilian LANDSAT facilities 10 p1523 N84-19977
Description and status report on TM processing system 10 p1523 N84-19978
NASA TM processing system description and status 10 p1524 N84-19979
TM data available at EDC, and EDC TM data handling and processing plan 10 p1524 N84-19980
CCRS option for TM data distribution 10 p1524 N84-19982
Geometric performance: Line to line displacement analysis 10 p1524 N84-19983
Use of DBMS in multi-step information systems for LANDSAT 11 p1749 N84-21417
Performance evaluation and geologic utility of LANDSAT-4 TM and MSS data
[E84-10099] 12 p1828 N84-21918
Analysis of the quality of image data acquired by the LANDSAT-4 thematic mapper and multispectral scanners --- Plumas County, California
[E84-10106] 12 p1829 N84-21924
Spectroradiometric calibration of the Thematic Mapper and multispectral scanner system
[E84-10098] 13 p2004 N84-23000
In-flight absolute radiometric calibration of the Thematic Mapper --- White Sands, New Mexico 13 p2004 N84-23002
LANDSAT 4 investigations of Thematic Mapper and multispectral scanner applications --- Death Valley, California; Silver Bell Copper Mine, Arizona, and Dulles Airport near Washington, D.C.
[E84-10100] 13 p2004 N84-23003
LANDSAT 4 band 6 data evaluation
[E84-10119] 13 p2005 N84-23009
Investigation of several aspects of LANDSAT-4 data quality --- Sacramento, San Francisco, and NE Arkansas
[E84-10122] 14 p2167 N84-23981
LANDSAT-D Thematic Mapper image dimensionality reduction and geometric correction accuracy --- Walnut Creek Watershed, Texas
[E84-10149] 16 p2508 N84-26097
LANDSAT 4 investigations of Thematic Mapper and Multispectral Scanner applications
[E84-10152] 17 p2709 N84-27247
Evaluating LANDSAT-4 MSS and TM data
[E84-10157] 17 p2709 N84-27249
LANDSAT-4 image data quality analysis
[E84-10158] 17 p2709 N84-27250
LANDSAT-4 Science Investigations Summary, including December 1983 Workshop results, volume 1
[E84-10166] 20 p3205 N84-30359
The LANDSAT-4 program: An overview 20 p3205 N84-30360
LANDSAT-4 system description 20 p3205 N84-30361
An overview of LANDSAT-4 and the Thematic Mapper 20 p3206 N84-30364
Thematic Mapper Image Processing System (TIPS) processing status 20 p3206 N84-30368
Thematic Mapper image production in the engineering checkout phase 20 p3206 N84-30369
LANDSAT-4 radiometric and geometric correction and image enhancement results --- San Francisco Bay, California 20 p3206 N84-30370
TM digital image products for applications 20 p3206 N84-30371
Spectral characterization of the LANDSAT Thematic Mapper sensors 20 p3207 N84-30372
Pre-launch absolute radiometric calibration of LANDSAT-4 protoflight Thematic Mapper 20 p3207 N84-30373
Relative radiometric calibration of LANDSAT TM reflective bands --- San Francisco, California 20 p3207 N84-30374
Evaluation of the radiometric integrity of LANDSAT-4 Thematic Mapper band 6 data 20 p3207 N84-30375
A preliminary assessment of LANDSAT-4 Thematic Mapper data 20 p3208 N84-30377
Revised radiometric calibration technique for LANDSAT-4 Thematic Mapper data by the Canada Centre for Remote Sensing 20 p3208 N84-30378
A preliminary analysis of LANDSAT-4 Thematic Mapper radiometric performance 20 p3208 N84-30379
LANDSAT-4 Science Investigations Summary, including December 1983 Workshop results, volume 2
[E84-10167] 20 p3208 N84-30380
Tests of low-frequency geometric distortions in LANDSAT-4 images 20 p3211 N84-30397
Geodetic accuracy of LANDSAT-4 Multispectral Scanner and Thematic Mapper data 20 p3211 N84-30399
Radiometric accuracy assessment of LANDSAT-4 Multispectral Scanner (MSS) data --- Vermont 20 p3211 N84-30401
Spectral characterization of the LANDSAT-4 MSS sensors 20 p3211 N84-30402
Investigation of radiometric properties of LANDSAT-4 MSS 20 p3211 N84-30403
Radiometric calibration and geocoded precision processing of LANDSAT-4 Multispectral Scanner products by the Canada Centre for Remote Sensing 20 p3212 N84-30404
Geometric accuracy of LANDSAT-4 MSS image data --- Georgia 20 p3212 N84-30406
Geometric accuracy assessment of LANDSAT-4 Multispectral Scanner (MSS) --- Washington, D.C. 20 p3212 N84-30407
LANDSAT-4 MSS geometric correction: Methods and results 20 p3213 N84-30409
Impact of Thematic Mapper sensor characteristics on classification accuracy 20 p3213 N84-30410
Characterization of LANDSAT-4 TM and MSS image quality for interpretation of agricultural and forest resources 20 p3213 N84-30411
Evaluation of LANDSAT-4 Thematic Mapper data as applied to geologic exploration: Summary of results --- Death Valley, California, Cement-Velma, Oklahoma; Big Horn and Wind River Basins, Wyoming; Spanish Peaks, Colorado; and the Four Corners area (Paradox Basin of Utah and Colorado) 20 p3213 N84-30412
Preliminary evaluation of Thematic Mapper image data quality 20 p3214 N84-30415
Quick look analysis of TM data of the Washington, District of Columbia area 20 p3214 N84-30418
Comparison of the information content of data from the LANDSAT-4 Thematic Mapper and the Multispectral Scanner 20 p3215 N84-30420
Study of Thematic Mapper and Multispectral Scanner data applications 20 p3215 N84-30421
Thematic Mapper data quality and performance assessment in renewable resources/agriculture remote sensing 20 p3215 N84-30422
Preliminary comparisons of the information content and utility of TM versus MSS data 20 p3215 N84-30423
The use of Thematic Mapper data for land cover discrimination: Preliminary results from the UK Satmap programme 20 p3216 N84-30428
Final comparison of TM and MSS data for surface mine assessment in Logan County, West Virginia 20 p3216 N84-30430
Comparison of land cover information from LANDSAT Multispectral Scanner (MSS) and airborne Thematic Mapper Simulator (TMS) data for hydrologic applications 20 p3216 N84-30431
Relative accuracy assessment of LANDSAT-4 MSS and TM data for level 1 land cover inventory 20 p3217 N84-30432
Radiometric calibration and processing procedure for reflective bands on LANDSAT-4 protoflight Thematic Mapper
[E84-10056] 21 p3426 N84-31731
Characterization of the LANDSAT sensors' spatial responses
[E84-10171] 21 p3426 N84-31734
The INPE handouts to the 6th LANDSAT Technical Working Group (LTWG) Meeting
[E84-10176] 21 p3427 N84-31738
Relative radiometric calibration of LANDSAT TM reflective bands
[E84-10179] 21 p3428 N84-31750
Prelaunch absolute radiometric calibration of the reflective bands on the LANDSAT-4 protoflight Thematic Mapper
[E84-10180] 21 p3428 N84-31751
Prelaunch absolute radiometric calibration of LANDSAT-4 protoflight Thematic Mapper
[E84-10181] 21 p3429 N84-31752
TM digital image products for applications --- computer compatible tapes
[E84-10183] 21 p3429 N84-31754
Spectral characterization of the LANDSAT Thematic Mapper sensors
[E84-10184] 21 p3429 N84-31755

Relative radiometric calibration of LANDSAT TM reflective bands
[E84-10198] 21 p3429 N84-31757
Investigation of LANDSAT D Thematic Mapper geometric performance: Line to line and band to band registration — Toulouse, France and Mississippi, U.S.A.
[E84-10167] 21 p3429 N84-31758
LANDSAT-4 Thematic Mapper Modulation Transfer Function (MTF) evaluation — San Matteo Bridge and Stockton, California
[E84-10188] 21 p3430 N84-31759
LANDSAT-4 MSS and Thematic Mapper data quality and information content analysis
23 p3766 N84-33871

LANDSAT 5
Spectroradiometric calibration of the Thematic Mapper and multispectral scanner system
[E84-10098] 13 p2004 N84-23000
LANDSAT-5 orbit adjust maneuver report
[E84-10155] 19 p3039 N84-29276
Characterization of the LANDSAT sensors' spatial responses
[E84-10171] 21 p3426 N84-31734
The INPE handouts to the 6th LANDSAT Technical Working Group (LTWG) Meeting
[E84-10176] 21 p3427 N84-31738
Relative radiometric calibration of LANDSAT TM reflective bands
[E84-10179] 21 p3428 N84-31750

LANDSCAPE
U TERRAIN
U TOPOGRAPHY

LANDSLIDES
The Corfu landslide: Analog to giant landslides on Mars
13 p2086 N84-23513
Geomorphic clues to the Martian volatile inventory: Landslides
13 p2086 N84-23516
Sensing of factors involved in development of exogenous processes on space photographs of arid territories
19 p2977 N84-28870

LANES
U PATHS

LANGEVIN FORMULA
Simulations of the dynamics of optical bistability with fluctuations
14 p2236 N84-24421

LANGMUIR PROBES
U ELECTROSTATIC PROBES

LANGUAGE PROGRAMMING
CTX: A system for computer-aided indexing — computer aided text retrieval (CTX)
[BMFT-FB-ID-83-006] 02 p0303 N84-11986
System for Application oriented Requirement Specification (SARS)
[BMFT-FB-DV-83-006] 12 p1885 N84-22286
Report of the Information Technology Workshop
[PB84-163203] 14 p2248 N84-24500
Converting to Ada packages
[NPL-DITC-39/84] 18 p2919 N84-28512
Utilization of basic language programming with EEPROM technology for data acquisition applications and development
[DE84-010380] 18 p2921 N84-28526
Software design issues in the implementation of hierarchical display editors
21 p3463 N84-31953
ADA (trademark) training curriculum. Basic ADA programming (202 teacher's guide, volume 1
[AD-A143584] 22 p3641 N84-33083

LANGUAGES
NT ADA (PROGRAMMING LANGUAGE)
NT APL (PROGRAMMING LANGUAGE)
NT ASSEMBLY LANGUAGE
NT BASIC (PROGRAMMING LANGUAGE)
NT COBOL
NT COMMAND LANGUAGES
NT ENGLISH LANGUAGE
NT FORTRAN
NT HIGH LEVEL LANGUAGES
NT LISP (PROGRAMMING LANGUAGE)
NT MACHINE ORIENTED LANGUAGES
NT NATURAL LANGUAGE (COMPUTERS)
NT PASCAL (PROGRAMMING LANGUAGE)
NT PROGRAMMING LANGUAGES
NT QUERY LANGUAGES
NT WORDS (LANGUAGE)
Weighing evidence: The design and comparison of probability
[AD-A131475] 01 p0137 N84-10896
Short introduction to office applications of markup language
[DE83-011400] 04 p0562 N84-13844
Some remarks on the role of logic in knowledge representation
[AD-A132534] 05 p0732 N84-14806
Towards a formal multi-valued utility theory
[AD-P002356] 14 p2193 N84-24147
Interactive creations and modification of chinese characters
[ISD-299] 15 p2417 N84-25513
German-English technical glossary
[DE84-007978] 15 p2418 N84-25521
Standardization of terminology in field of ionizing radiations and their measurements
18 p2823 N84-27925
Understanding a technical language: A schema-based approach
[NASA-TM-85868] 19 p3070 N84-29478

LANTHANIDE SERIES METALS
U RARE EARTH ELEMENTS

LANTHANUM
Edge-sealed PLZT shutters for operation in high-humidity/temperature environments
[DE83-012627] 01 p0148 N84-10971

LANTHANUM COMPOUNDS
NT LANTHANUM FLUORIDES
NT LANTHANUM OXIDES
Creep of LaCrO-3Cr ceramic-metallic material
24 p3877 N84-34568

LANTHANUM FLUORIDES
Recent damage results for antireflection coatings at 355 NM
[DE84-011560] 21 p3371 N84-31388

LANTHANUM OXIDES
Hot-pressed silicon nitride with various lanthanide oxides as sintering additives
[NASA-TM-77424] 19 p2985 N84-28916

LAP JOINTS
Material characterization of structural adhesives in the lap shear mode
[NASA-CR-172237] 02 p0199 N84-11294
Some considerations of the efficiency of sewn lap joints in a nylon webbing
[RAE-TR-83009] 03 p0355 N84-12310
Effect of preforming adherends on static and fatigue strength of bonded composite single-lap joints
[NASA-TP-2324] 16 p2501 N84-26053
On improving the fatigue performance of a double-shear lap joint
[VFW-29/83-O] 16 p2561 N84-26431
Structure and properties of polymers and organosilanes absorbed onto oxidized aluminum and titanium
[AD-A143935] 23 p3724 N84-33599

LAPLACE EQUATION
Multigrid semi-implicit hydrodynamics revisited
[DE83-012675] 01 p0081 N84-10526
Ellipsoidal magnetostatic shield
17 p2638 N84-26877

LAPLACE OPERATORS
U LAPLACE TRANSFORMATION

LAPLACE TRANSFORMATION
Positive biharmonic functions
04 p0575 N84-13786
An approach to logistic problems by the L-transform method
06 p0906 N84-15884
Applications of natural constraints in critical point theory to boundary value problems on domains with rotation symmetry
[AD-A136404] 09 p1374 N84-18976
Gyrotron backward-wave oscillator
[AD-A140908] 17 p2664 N84-26993
The relaxation time of two queueing systems in series
[MC-BW-192/83] 17 p2761 N84-27537
On the scattering of electromagnetic waves by perfectly conducting bodies moving in vacuum. Part 4: Kinematic single layer potentials
[AD-A141747] 19 p3006 N84-29052
A Taylor series in symmetry-adaptable functions
[AD-A142336] 20 p3280 N84-30819

LAPSE RATE
The lapse rate, surface albedo and global climatic stability: Experiments with an annual zonal energy balance model
02 p0246 N84-11610

LARGE AREA CROP INVENTORY EXPERIMENT
Remote sensing of the Earth and agriculture
05 p0634 N84-14167

LARGE SCALE INTEGRATION
A knowledge based approach to VLSI CAD
[AD-A133692] 05 p0675 N84-14434
Logic simulator program
06 p0927 N84-16023
Research in VLSI (Very Large Scale Integration) systems
[AD-A136413] 09 p1307 N84-18542
Princeton VLSI project
[AD-A136551] 09 p1307 N84-18546
Princeton VLSI project
[AD-A136552] 09 p1307 N84-18547
Princeton VLSI project
[AD-A136553] 09 p1308 N84-18548
LSI (Large Scale Integrated) design for testability: Design, demonstration and testability analysis
[AD-A135899] 09 p1308 N84-18550
A structured design methodology for VLSI systems
[AD-A135725] 09 p1308 N84-18554
Proceedings of the 9th World Computer Congress. IFIP (International Federation of Information Processing)
[AD-A136317] 09 p1365 N84-18911
Simulation tools for digital LSI (Large Scale Integration) design
[AD-A136116] 09 p1369 N84-18936
A framework for solving VLSI (Very Large Scale Integration) graph layout problems
[AD-A136143] 09 p1378 N84-19003
Proceedings of USC Workshop on VLSI and Modern Signal Processing
[AD-A136855] 09 p1399 N84-19138
Signal processing applications of systolic array technology (extended summary)
09 p1399 N84-19139
A thousand-word speech-recognition system using special-purpose MOS-LSI
09 p1399 N84-19140
A parallel VLSI architecture for a digital filter using a number theoretic transform
09 p1400 N84-19141
Frequency domain digital filtering with VLSI
09 p1400 N84-19142
Concurrent algorithms as space-time recursion equations
09 p1400 N84-19143
A formal derivation of array implementations of FFT algorithms
09 p1400 N84-19144
Problem-oriented specification of concurrent algorithms
09 p1400 N84-19145
An overview of signal representations in signal processing languages
09 p1400 N84-19146
Multi-computer parallel arrays, pipeline arrays and pyramids
09 p1400 N84-19147
Digital signal processing structures for VLSI
09 p1401 N84-19149
Impact of VLSI on modern signal processing
09 p1402 N84-19155
VLSI architectures for recognition of context-free languages
09 p1402 N84-19160
VLSI architectures for pattern analysis and image database management
09 p1403 N84-19163
The Microelectronics Center: A new force in cooperative VLSI signal processing research
09 p1403 N84-19166
VLSI signal processing: Basis for cooperation
09 p1403 N84-19168
Development of technology, circuit design and simulation procedures for Very Large Scale Integration (VLSI) systems, volume 1
[BMFT-FB-T-83-170-VOL-1] 10 p1487 N84-19724
Development of technology, circuit design and simulation procedures for Very Large Scale Integration (VLSI) systems, volume 2
[BMFT-FB-T-83-170-VOL-2] 10 p1487 N84-19725
Very large scale integration logical and physical structures of VLSI systems
[BMFT-FB-T-83-267] 10 p1488 N84-19730
Technology for LSI circuits combining integrated injection logic and bipolar transistors
[BMFT-FB-T-83-210] 10 p1489 N84-19733
VLSI circuit simulation using a vector computer
10 p1559 N84-20215
Product assurance technology for procuring reliable, custom LSI/VLSI electronics
[NASA-CR-173405] 12 p1812 N84-21810
VLSI research, semi-annual technical R&D (Research and Development)
[AD-A138339] 12 p1812 N84-21813
Electrical, chemical, and microstructural characterization of gettering mechanisms for VLSI (Very Large Scale Integrated Circuits)
[AD-A138662] 13 p1986 N84-22893
Testability of VLSI (Very Large Scale Integration) leakage faults in CMOS (Complementary Metal Oxide Semiconductor)
[AD-A139078] 13 p2047 N84-23281
A structured design of multiple-valued LSI/VLSI with built-in testing capability
[AD-P002328] 14 p2189 N84-24119
The implementation and use of multivalued logic in a VLSI environment
[AD-P002344] 14 p2191 N84-24135
LSI/VLSI (Large Scale Integration/Very Large Scale Integration) ion implanted GaAs (Gallium Arsenide) IC processing
[AD-A139676] 15 p2328 N84-24979
LSI/VLSI (Large Scale Integration/Very Large Scale Integration) ion implanted GaAs (Gallium Arsenide) IC processing. Appendix A: Feasibility analysis of Gallium-Arsenide mask programmable functions and logic arrays for high performance communications systems
[AD-A139677] 15 p2328 N84-24980

LSI/VLSI (Large Scale Integration/Very Large Scale Integration) ion implanted GaAs (Gallium Arsenide) IC processing. Appendix B: Two-dimensional modeling of GaAs MESFET devices for integrated high-speed logic circuits
[AD-A139678] 15 p2328 N84-24961
Modeling and extraction of interconnect parameters in very-large-scale integrated circuits
[AD-A142381] 20 p3178 N84-30182
Proton-induced single event upsets in the SBP9989 microprocessor
[AD-A142448] 20 p3266 N84-30724
MIL-STD-1553B Marconi LSI chip set in a remote terminal application
[AD-P003538] 21 p3332 N84-31142
Third generation MIL-STD-1553B LSI chip set
[AD-P003542] 21 p3333 N84-31146
Circuit engineering principles for construction of bipolar large-scale integrated circuit storage devices and very large-scale main memory 21 p3379 N84-31441
Multi-valued LSI/VLSI logic design 22 p3580 N84-32670
Programmable arithmetic logic unit
[AD-D011128] 22 p3637 N84-33055
The Blue CHiP Project
[AD-A143474] 22 p3636 N84-33065
CEMA cooperation in microelectronics research, production 23 p3726 N84-33629
Selections on CSSR electronics, computer technology: MHB8804 integrated circuit 23 p3813 N84-34179
Optoelectronic programmable logic arrays 24 p3941 N84-34948

LARGE SPACE STRUCTURES

The dynamics and control of large flexible space structures, 6
[NASA-CR-174450] 01 p0027 N84-10173
Development of deployable structures for large space platform systems. Volume 1: Executive summary
[NASA-CR-170913] 01 p0028 N84-10175
Development of deployable structures for large space platforms. Volume 2: Design development
[NASA-CR-170914] 01 p0028 N84-10176
Large apace instrumentation to measure the interaction between space structures and the environment
[AD-A129990] 01 p0028 N84-10179
Actuator placement considerations for the control of large space structures 02 p0185 N84-11199
Resistojet propulsion for large spacecraft systems
[NASA-TM-83489] 02 p0186 N84-11206
Control of flexible spacecraft by optimal model following 03 p0342 N84-12222
Study of auxiliary propulsion requirements for large space systems. Volume 1: Executive summary
[NASA-CR-168193-VOL-1] 03 p0343 N84-12226
Technology for large space systems: A bibliography with indexes
[NASA-SP-7046(09)] 04 p0488 N84-13204
Analysis of large space structures assembly: Man/machine assembly analysis
[NASA-CR-3751] 04 p0488 N84-13208
Study of auxiliary propulsion requirements for large space systems, volume 2
[NASA-CR-168193-VOL-2] 04 p0490 N84-13218
Active control of large flexible space structures 05 p0644 N84-14235
New elements for analysis of space frames with tapered members 05 p0695 N84-14561
ACOSS Fourteen (Active Control of Space Structures)
[AD-A133411] 06 p0795 N84-15181
Direct multivariable model reference adaptive control with applications to large structural systems 06 p0900 N84-15840
Finite element analysis of a deployable space structure 06 p0932 N84-16056
Digital control system for space structural dampers
[NASA-CR-175355] 07 p0964 N84-16246
Reliability issues in active control of large flexible space structures
[NASA-CR-175341] 07 p0964 N84-16248
Surface accuracy measurement sensor test on a 50-meter antenna surface model
[NASA-TM-85689] 07 p0992 N84-16427
Self-shadowing of orbiting trusses
[NASA-CR-173215] 07 p1012 N84-16565
Interpretation of STS-3/plasma diagnostics package results in terms of large space structure plasma interactions
[NASA-CR-173266] 07 p1075 N84-16991
STEP Experiment Requirements
[NASA-CP-2294] 08 p1109 N84-17211
Deployable beam flight experiment (MAST) 08 p1110 N84-17218
The STEP/STACBEAM experiment technology development for very large solar array deployers 08 p1110 N84-17220
General requirements for Shuttle flight experiments 08 p1110 N84-17221
Photovoltaic concentrator pointing dynamics and plasma interaction study 08 p1111 N84-17224
Low concentration ratio solar array structural configuration 08 p1111 N84-17225
Development of Test Article Building Block (TABB) for deployable platform systems 08 p1111 N84-17226
A deployable structure and solar array controls experiment for STEP 08 p1111 N84-17227
Vibration isolation technology experiment 08 p1111 N84-17228
Integrated Power/Attitude Control System (IPACS) technology experiment 08 p1111 N84-17229
Investigation of articulated panel dynamics 08 p1112 N84-17230
Large deployable antenna flight experiment for the Space Technology Experiments Platform (STEP) 08 p1112 N84-17232
The 55-meter-structure flight experiment 08 p1112 N84-17233
Study on large, ultralight long-life structures in space, phase 2C
[TM-EKR3] 08 p1120 N84-17284
Selection of noisy sensors and actuators for regulation of linear systems — large space structures
[AD-A135442] 08 p1216 N84-17931
Control of large flexible spacecraft by the independent modal-space control method
[NASA-CR-3760] 09 p1265 N84-18262
ACOSS eleven (Active Control Of Space Structures), volume 1
[AD-A135675] 09 p1273 N84-18311
ACOSS eleven (Active Control Of Space Structures), volume 2
[AD-A135676] 09 p1273 N84-18312
The thermal design of L-SAT large telecommunication satellite 10 p1441 N84-19414
Decentralized control of a large space structure using direct output feedback
[AD-A136781] 10 p1448 N84-19464
The effect of mass and stiffness changes on the damping factor in a large space structure as represented by the CSDL 2 model
[AD-A136984] 10 p1449 N84-19465
Analysis of large space structures 11 p1623 N84-20621
Construction concept for erecting an offset-fed antenna
[NASA-TM-85774] 11 p1623 N84-20626
Environmental effects on the dynamics and control of an orbiting large flexible antenna system
[NASA-CR-175448] 11 p1623 N84-20627
Feasibility of remotely manipulated welding in space. A step in the development of novel joining technologies
[NASA-CR-175437] 11 p1664 N84-20657
Study on synthesis and characterization of large space systems, phase 2. Part 2: Proposals for additions, modifications and new analytical methods, volume 1
[ESA-CR(P)-1779-VOL-3] 12 p1780 N84-21611
The solution of the dynamic problem of the periodic structures by cyclosymmetric technique — large space structures 12 p1780 N84-21612
Computing the radiation pressure forces by adapting thermal design verification softwares — large space structures 12 p1780 N84-21613
Simplified models and computational schemes of the aerodynamic load — large space structures 12 p1780 N84-21614
Finite element formulations for tensioned members — large space structures 12 p1780 N84-21615
Study on synthesis and characterization of large space systems, phase 2. Part 2: Proposals for additions, modifications and new analytical methods, volume 2
[ESA-CR(P)-1779-VOL-4] 12 p1780 N84-21616
Thermal design verification of the large open truss structures. The local approach and the shadow problem — large space structures 12 p1780 N84-21617
Computational savings in view factor evaluation on mode prescreening — large space structures 12 p1781 N84-21618
Interactive structural-thermal-control analytical formulations — large space structures 12 p1781 N84-21619
Study on synthesis and characterization of large space systems, phase 2. Part 3: Experimental design verification techniques
[ESA-CR(P)-1779-VOL-5] 12 p1781 N84-21620
Assessment of the existing ground test technology and confronting with the Large Space Structures (LSS) requirements. Experimental techniques in structural analysis 12 p1781 N84-21621
Assessment of the existing ground test technology and confronting with the Large Space Structures (LSS) requirements. Thermal test techniques 12 p1781 N84-21622
Proposals for additions, modifications, and new experimental methods. Part 1: Ground tests. Part 2: Flight tests — large space structures 12 p1781 N84-21623
Study on synthesis and characterization of large space systems, phase 2. Part 1: Assessment of design verification analytical methods. Volume 1: Mechanical design
[ESA-CR(P)-1779-VOL-1] 12 p1782 N84-21624
Study on synthesis and characterization of large space systems, phase 2. Part 1: Assessment of design verification analytical methods. Volume 2: Thermal design
[ESA-CR(P)-1779-VOL-2] 12 p1782 N84-21625
Definition of technology development missions for early space stations. Large space structures, phase 2, midterm review
[NASA-CR-171004] 13 p1939 N84-22607
Application of control theory to large flexible structures using the independent modal-space control method 13 p1940 N84-22617
Attitude and shape control of large space structures 13 p2019 N84-23091
Decoupled control analysis of a large flexible space antenna with linear quadratic regulator comparisons
[NASA-TP-2293] 14 p2115 N84-23675
NASA/Howard University Large Space Structures Institute
[NASA-CR-173425] 14 p2244 N84-24476
Megamechanics research Consortium 14 p2244 N84-24477
Mathematical analysis 14 p2245 N84-24479
Optimization of space structures 14 p2245 N84-24480
Dynamics and control of flexible orbiting systems 14 p2245 N84-24481
Microprocessor based implementation of attitude and shape control of large space structures 14 p2245 N84-24482
Spacecraft control research at NASA 15 p2266 N84-24604
Characterization of uncertainty for large space structure control problems 15 p2268 N84-24619
Design and robustness analysis of reduced order controllers for large flexible space vehicles 15 p2269 N84-24623
Space exposure of composite materials for large space structures (A0134) 15 p2271 N84-24639
Vibration Control Of Space Structures VCOSS B: Momentum exchange and truss dampening
[AD-A139910] 15 p2281 N84-24701
Vibration Control Of Space Structures VCOSS A: High and low-authority hardware implementations
[AD-A139931] 15 p2281 N84-24702
The 18th Aerospace Mechanisms Symposium
[NASA-CP-2311] 15 p2346 N84-25078
Design and operation of a deployable truss structure 15 p2347 N84-25082
Evolution from a hinge actuator mechanism to an antenna deployment mechanism for use on the European large communications satellite (L-SAT/OLYMPUS) 15 p2347 N84-25084
Technology for large space systems: A bibliography with indexes
[NASA-SP-7046(10)] 16 p2454 N84-25736
Study of ERS-1 dynamic interaction. Volume 1: Theoretical notes
[ER-RP-A1-002-VOL-1] 16 p2456 N84-25747
Innovative structures for space applications
[GAC-19-1583] 16 p2458 N84-25757
Dynamic characteristics of a space-station solar wing array
[NASA-TM-85780] 16 p2458 N84-25758
Proceedings of the Air Force Geophysics Laboratory Workshop on Natural Charging of Large Space Structures in Near Earth Polar Orbit
[AD-A134894] 16 p2521 N84-26185
An overview of charging of large space structures in polar orbit
[AD-P002100] 16 p2521 N84-26186
Potential barriers and multiple roots in spacecraft charging
[AD-P002117] 16 p2524 N84-26203
The importance of neutrals, transient effects, and the Earth's magnetic field on sheath structure
[AD-P002119] 16 p2524 N84-26205
Polar code development
[AD-P002122] 16 p2524 N84-26208
Sheath shapes: A 3-D generalization of the Child-Langmuir sheath model for large high-voltage space structures in dense plasmas
[AD-P002124] 16 p2525 N84-26210
Space systems environmental interactions technology program
[AD-P002125] 16 p2525 N84-26211

Questions that need to be answered
[AD-P002127] 16 p2525 N84-26213
Selection of actuator locations for static shape control of large space structures by heuristic integer programing
[NASA-TM-85769] 17 p2616 N84-26741
Space station needs, attributes and architectural options. Volume 4, task 2 and 3: Mission implementation and cost
[NASA-CR-173715] 18 p2806 N84-27813
Two-phase heat transport system conceptual studies — large space structures
[SABCA-JPM/LN/HO5/N117] 18 p2807 N84-27822
Finite element thermal-structural analysis of cable-stiffened space structures
[NASA-CR-173709] 18 p2852 N84-28106
Regions of attraction and ultimate boundedness for linear quadratic regulators with nonlinearities
[NASA-TP-2322] 18 p2923 N84-28538
System definition study of deployable, non-metallic space structures
[NASA-CR-171090] 19 p2980 N84-28867
The dynamics and control of large flexible space structures, part 7
[NASA-CR-173761] 19 p2981 N84-28892
An integrated, optimization-based approach to the design and control of large space structures
[AD-A141856] 19 p2982 N84-28896
Structures and Dynamics Division research and technology plans for FY 1984 and accomplishments for FY 1982
[NASA-TM-85828] 19 p3034 N84-29245
Preliminary space station solar array structural design study 19 p3047 N84-29335
Development and support structures for high-power solar arrays 19 p3048 N84-29336
Support structures for large infrared telescopes
[NASA-CR-3800] 20 p3200 N84-30328
Multi-100kW: Planar low cost solar array development
[NASA-CR-171119] 20 p3234 N84-30529
A numerical algorithm for chained aggregation and modified chained aggregation
[AD-A142394] 20 p3280 N84-30822
Space Station Systems Analysis Study. Volume 1: Executive summary, part 1 and 2
[NASA-CR-161590] 21 p3352 N84-31263
Space Station Systems Analysis Study. Volume 2: Program review report
[NASA-CR-161231] 21 p3352 N84-31264
Space Station Systems Analysis Study. Volume 2: Program options, book 1, parts 1 and 2
[NASA-CR-161827] 21 p3352 N84-31265
Digital control system for space structural dampers
[NASA-CR-173867] 21 p3353 N84-31267
Hoop/column antenna RF verification model. Volume 2: Analysis and correlation
[NASA-CR-172413] 21 p3382 N84-31462
Simulation requirements for the Large Deployable Reflector (LDR)
[NASA-CR-171140] 21 p3523 N84-32317
Large Deployable Reflector Science and Technology Workshop. Volume 3: Systems and Technology Assessment
[NASA-CP-2275-VOL-3] 21 p3523 N84-32318
Large Deployable Reflector Science and Technology Workshop. Volume 3: Systems and technology assessment. Introduction 21 p3523 N84-32319
Technology Panel reports 21 p3523 N84-32320
Large Deployable Reflector Science and Technology Workshop. Volume 3: Systems and technology assessment. Conclusions 21 p3523 N84-32321
Studies of low-mass star formation with the large deployable reflector
[NASA-TM-85960] 21 p3524 N84-32328
The Telecommunications and Data Acquisition Report
[NASA-CR-173865] 22 p3572 N84-32622
ACOSS twelve (active control of space structures)
[AD-A143829] 23 p3701 N84-33458
Ground test article for deployable space structure systems
[NASA-CR-171158] 24 p3858 N84-34457
Control methodologies for large space structures
[NASA-CR-173967] 24 p3861 N84-34467
Optimal sensor/actuator placement on a large space structure
[AD-A144560] 24 p3865 N84-34499

LARGE SPACE TELESCOPE
U HUBBLE SPACE TELESCOPE

LARMOR PRECESSION
A study of a two-frequency NMR maser 21 p3408 N84-31615

LARMOR RADIUS
Linear relativistic gyrokinetic equation in general magnetically confined plasmas
[DE84-000048] 04 p0610 N84-14027
Inappropriateness of the finite Larmor radius model for the tilting mode in field reversed configurations
[DE84-007467] 15 p2411 N84-25473
Interaction of the precessional wave with free-boundary Alfven surface waves in tandem mirrors
[DE84-012527] 20 p3307 N84-31003

LASER ALTIMETERS
Analysis of short pulse laser altimetry data obtained over horizontal path
[NASA-CR-170612] 06 p0849 N84-15535
Theoretical and experimental analysis of laser altimeters for barometric measurements over the ocean
[NASA-CR-175443] 11 p1662 N84-20842

LASER ANEMOMETERS
Application of laser anemometry in turbine engine research
[NASA-TM-83513] 02 p0222 N84-11456
Investigation of flow phenomena in a transonic fan rotor using laser anemometry
[NASA-TM-83555] 08 p1098 N84-17143
Laser diagnostic development and measurement and modeling of turbulent flowfields of jets and wakes. Part 1: Two-dimensional laser Doppler anemometer studies of isothermal flowfield in a ducted centerbody combustor
[AD-A134691] 08 p1158 N84-17542
Laser diagnostic development and measurement and modeling of turbulent flowfields of jets and wakes. Part 2: Numerical predictions of isothermal flowfields in a ducted centerbody combustor
[AD-A134692] 08 p1159 N84-17543
A study of annular diffuser flow using a photon-correlating laser Doppler anemometer
[AD-A137019] 10 p1493 N84-19762
Utilization of laser diagnostics to evaluate combustor models 15 p2294 N84-24767
Optimization of fringe-type laser anemometers for turbine engine component testing
[NASA-TM-83658] 15 p2335 N84-25019
Underwater laser anemometer for measuring ocean currents 18 p2857 N84-28141
Investigation of the three-dimensional flow field within a transonic fan rotor: Experiment and analysis
[NASA-TM-83739] 22 p3531 N84-32357

LASER ANNEALING
Laser and electron beam processing of semiconductors: CW beam-recrystallized polysilicon as a device-worthy material
[AD-A133759] 05 p0753 N84-14942
Laser and electron beam processing of semiconductors: CW beam processing of ion implanted silicon
[AD-A133758] 05 p0754 N84-14943
Analysis of microstructure and strengthening mechanisms in laser surface alloyed Fe-Cr and Fe-C-Cr alloy systems
[AD-A137971] 12 p1797 N84-21722
A technique for increasing the optical strength of single-crystal NaCl and KCl through temperature cycling
[AD-A138260] 12 p1820 N84-21867
Models of rapid solidification 18 p2936 N84-28623
Nonequilibrium crystal growth during laser annealing of silicon 18 p2939 N84-28639
Theory of laser-induced surface chemistry with applications to microelectronics and heterogeneous catalysis
[AD-A141832] 19 p2989 N84-28938
Excimer laser annealing to fabricate low cost solar cells
[NASA-CR-173938] 23 p3768 N84-34027
Measurement of small elastic anisotropy in solids using laser induced ultrasonic pulses
[AD-A144296] 24 p3912 N84-34775

LASER APPLICATIONS
NT LASER CUTTING
NT LASER FUSION
NT LASER PROPULSION
Dopant incorporation during nonequilibrium solidification
[DE83-014052] 01 p0154 N84-11014
Laser-Cooled and Trapped Atoms
[PB83-236196] 02 p0192 N84-11249
Laser chemical etching of vias in GaAs
[AD-A131288] 02 p0226 N84-11479
Laser techniques for extreme-ultraviolet spectroscopy
[DE83-014834] 02 p0227 N84-11486
Advanced-laser development for isotope separation
[DE83-016151] 02 p0227 N84-11488
Laser velocimeter measurements and analysis in turbulent flows with combustion, part 2
[AD-A131882] 03 p0372 N84-12421
Laser activated MTOS microwave device
[NASA-CASE-NPO-16112-1] 03 p0378 N84-12463
Semiconductors investigated by time resolved raman absorption and photoluminescence spectroscopy using femtosecond and picosecond laser techniques
[AD-A131860] 03 p0379 N84-12466
Measurement of thermal conductivity from high-temperature pulse diffusivity and calorimetry measurements
[DE84-000353] 04 p0503 N84-13297
Rotational energy transfer in highly vibrationally excited hydrogen fluoride and deuterium fluoride
[AD-A133102] 05 p0745 N84-14882
Bibliography of Soviet Laser Developments, number 80, July August 1982
[AD-A133932] 05 p0759 N84-14978
Design, construction, and use of a high-resolution, two-component LDA 06 p0833 N84-15419
A laser velocimeter system for large-scale aerodynamic testing
[NASA-TM-84393] 07 p0947 N84-16144
Raman spectroscopy of shocked water
[DE84-002468] 07 p0972 N84-16295
Transactions of the Japan Society for Aeronautical and Space Sciences, vol. 26, no. 73, November 1983
[ISSN-0549-3811] 07 p0984 N84-16374
Laser cooling and trapping of neutral atoms
[AD-A134333] 07 p1009 N84-16547
High-temperature, high-pressure optical cell
[NASA-CASE-MFS-26000-1] 07 p1075 N84-16986
Structural and electrochemical properties of platinum-titanium laser surface alloys 08 p1129 N84-17346
Model mission study for laser synchronization of clocks
[SNIAS-221-CA/LP] 08 p1162 N84-17569
Two photon excitation as a tool for atmospheric and kinetic research
[NASA-CR-175378] 08 p1228 N84-18026
Measurement of heat pump processes induced by laser radiation
[NASA-CR-168324] 09 p1319 N84-18620
Laser-induced electron-phonon processes on metal surfaces
[AD-A136435] 09 p1321 N84-18632
Laser-induced surface migration via surface plasmons
[AD-A136436] 09 p1321 N84-18633
Reactive shock phenomena in condensed materials: Formulation of the problem and method of solution
[AD-A136514] 09 p1385 N84-19046
Flowfield measurements in a model scramjet combustion using laser-induced iodine fluorescence
[NASA-CR-175399] 10 p1419 N84-19283
Remote thermometry of moving surfaces by laser-induced fluorescence of surface-bonded phosphor
[DE84-004264] 10 p1498 N84-19792
Materials implications of advanced thermal and kinetic energy threats 10 p1506 N84-19872
Future sea mapping technique: Travel report. Activities in sea mapping technique, laser technique and acoustics at some institutes in Northern Europe
[FOA-C-30346-E1] 10 p1527 N84-20002
Saturated laser fluorescence in turbulent sooting flames at high pressure 11 p1612 N84-20551
Particle size distribution of typical ceramic raw materials by laser granulometry
[NASA-TM-77385] 11 p1636 N84-20696
Comments on laser-excited fluorescence of the hydroxyl radical: Relaxation coefficients at atmospheric pressure, appendix 5
[NASA-CR-175442] 11 p1662 N84-20843
Shot noise limited detection of OH using the technique of laser induced fluorescence
[NASA-CR-175433] 11 p1662 N84-20844
Laser chemical vapor deposition
[AD-A137827] 11 p1663 N84-20850
Bibliography of Soviet Laser Developments, no. 61, September - October 1982
[AD-A137867] 11 p1663 N84-20852
Nonlinear optics: Where do we go from here
[DE84-006028] 11 p1732 N84-21300
Application of laser velocimetry to unsteady flows in large scale high speed tunnels
[NASA-CR-166575] 12 p1765 N84-21511
Photodeposition of nitride insulators on 3-5 substrates
[NASA-CR-173393] 12 p1797 N84-21720
Laser studies of molecular dynamics
[AD-A138102] 12 p1820 N84-21864
Laser detection of chemical agents
[AD-A138122] 12 p1820 N84-21865
The 16th European Conference on Laser Interaction With Matter, Book of Abstracts
[AD-A138316] 12 p1821 N84-21868
Laser generation of ultrasound
[AD-A138483] 12 p1821 N84-21870
Laser assisted deposition 12 p1840 N84-21998
Large aperture optical switching devices
[DE84-005126] 12 p1908 N84-22433
Producible alternative to CdTe for epitaxy (PACE-2) of LWIR HgCdTe
[AD-A138255] 12 p1914 N84-22468

A review study of nondestructive test techniques for residual stresses in aircraft transparencies
[AD-A138930] 13 p1930 N84-22555
The 20th JANNAF Combustion Meeting, volume 1
[AD-A138033] 13 p1943 N84-22632
Advanced diagnostics for reacting flows
13 p1943 N84-22637
An optical surface tracking device which determines a solid propellant's burning rate 13 p1944 N84-22638
Compressibility of colloids. 2: Compressibility studies of tri-block non-ionic polymers in toluene and water solutions
[AD-A136738] 13 p1963 N84-22755
Bibliography of Soviet Laser Developments, Number 63, January-February 1983
[AD-A138742] 13 p1995 N84-22948
Anomalous laser induced bunch lengthening on the ACO storage ring free electron laser
[AD-A138814] 13 p1995 N84-22949
Review of free electron laser theory and experiments
[DE84-007232] 13 p1996 N84-22954
Coherent laser radar remote sensing
[AD-A139448] 14 p2151 N84-23885
The 1982 laser program
[DE84-006476] 14 p2151 N84-23887
Laser-induced etching of insulators using a dc glow discharge in silane
[DE84-007570] 14 p2151 N84-23888
Research in the area of laser modified atomic physics
[AD-A139387] 14 p2222 N84-24335
Characterization of heavy oil sprays in isothermal and burning conditions with laser light scattering measurements in the sideward region
15 p2294 N84-24766
Utilization of laser diagnostics to evaluate combustor models 15 p2294 N84-24767
Fluid flow in laser melted pool
15 p2306 N84-24837
Optical measurements of fluctuating temperatures in a supersonic turbulent flow using one- and two-photon, laser-induced fluorescence
[NASA-TM-85949] 15 p2336 N84-25020
The design and development of a solar tracking unit
15 p2348 N84-25090
Blast-wave analysis of high-pressure coupling shells
[AD-A139687] 15 p2350 N84-25108
Containerless high temperature property measurements by atomic fluorescence
[NASA-CR-171038] 15 p2412 N84-25481
Digital Image Processing in Fluid Dynamics
[VKI-LS-1984-03] 16 p2490 N84-25973
The development of a new class of holographic materials
[AD-A140298] 16 p2496 N84-26017
Laser technology: Material for separating, joining and surface treating
[RKW-836] 16 p2497 N84-26019
Improving the legibility of computer printouts
[BMFT-FB-DV-84-001] 16 p2542 N84-26315
Advanced laser stratospheric monitoring systems analyses
[NASA-CR-172348] 16 p2552 N84-26373
Laser probes of propellant combustion chemistry
[AD-A140767] 17 p2628 N84-26814
Laser ballistic sensor development — projectile yawing motion
[AD-A140427] 17 p2671 N84-27026
Health education of population in conection with widespread use of laser radiation
17 p2742 N84-27407
Activity of respiratory system during laser irradiation of brain structures 17 p2742 N84-27409
Intensity fluctuations during specular reflection of light beams in turbulent atmosphere
18 p2823 N84-27922
Aerosol backscatter lidar calibration and data interpretation
[NASA-CR-173738] 18 p2845 N84-28067
Experimental and theoretical studies of laser propulsion phenomenology
[AD-A140995] 18 p2846 N84-28069
Electron excitation of vibrational states of D2 and H2 and detection of excited states by laser-induced fluorescence
[AD-A141038] 18 p2846 N84-28070
Development of space holography
19 p2972 N84-28839
Study of gas-surface interactions by laser-induced fluorescence detection
[AD-A141559] 19 p2988 N84-28933
Semiconductors investigated by time resolved Raman absorption and photoluminescence spectroscopy using femtosecond and picosecond laser techniques
[AD-A141381] 19 p3029 N84-29209
Auger electron pumping of short wavelength lasers
[DE84-009240] 19 p3030 N84-29217
Laser-assisted solar cell metallization processing
[NASA-CR-173764] 19 p3050 N84-29354
Laser-assisted solar cell metallization processing
[NASA-CR-173763] 19 p3050 N84-29355
International Conference on Radiationless Transitions
[AD-A141407] 19 p3100 N84-29695
UV laser triggering of crowbars used in the Sandia lightning simulator
[DE84-009064] 20 p3180 N84-30199
Bibliography of Soviet laser developments, number 64, March -April 1983
[AD-A141906] 20 p3193 N84-30275
Free electron lasers and related topics
[DE84-011332] 20 p3193 N84-30277
Application of FASTRAK by Skandinaviak Autodigitalisering AB (SADAB) cartographic service
20 p3226 N84-30498
Characterization of micron-sized, optical coating defects by photothermal deflection microscopy
[DE84-011150] 20 p3301 N84-30960
USSR report: Space
[JPRS-USP-84-004] 21 p3347 N84-31228
Space transportation systems of the future
21 p3348 N84-31236
High-resolution spectroscopy and dynamics of multiphoton processes in atoms and molecules
[AD-A143017] 21 p3359 N84-31303
Simulations of erosion/corrosion surface chemical reactions with a laser beam
[AD-A143001] 21 p3366 N84-31354
Nonlinear theory of the free-electron laser
[INPE-3193-PRE/557] 21 p3409 N84-31618
Laser-assisted solar cell metallization processing
[NASA-CR-173875] 21 p3409 N84-31619
Diagnostics for an XUV/soft X-ray laser
[DE84-012593] 21 p3410 N84-31628
Laser color recording unit
[BMFT-FB-T-84-098] 21 p3411 N84-31633
USSR report: Life sciences. Effects of nonionizing electromagnetic radiation
[JPRS-UNE-84-001] 21 p3452 N84-31903
IRIS pulsing ruby light source
21 p3482 N84-32066
New type of dye laser with light-induced distributed feedback 21 p3482 N84-32067
Experimental study of strong nonlinear-optics effects in liquid crystals 21 p3483 N84-32071
Production of dense plasma column in strong magnetic fields and its diagnosis by laser methods
21 p3488 N84-32104
Theory of acoustic speckle 21 p3490 N84-32114
Optically pumped polarized alkali atomic beams and targets
[DE84-012389] 21 p3495 N84-32147
A laser image generation system for helicopter Nap-Of-the-Earth (NOE) flight training
[AD-P003481] 21 p3512 N84-32248
Atmospheric propagation effects on infrared radars
[AD-A143196] 22 p3576 N84-32651
Developing turbulent flow in a 180(0) curved pipe and its downstream tangent
[DE84-013391] 22 p3595 N84-32767
Laser furnace technology for zone refining
[NASA-TM-86459] 22 p3600 N84-32805
Laser physics and laser techniques
[AD-A143538] 22 p3601 N84-32809
Wafer-scale laser pantography. Part 6: Direct-write interconnection of VLSI gate arrays
[DE84-012676] 22 p3601 N84-32815
Dynamic testing of NOVA laser structural systems. The north side of Spaceframe Tower
[DE84-014830] 22 p3602 N84-32816
Real-time optical filtering system with spatial and temporal enhancement of visual information
[AD-D011106] 22 p3656 N84-33172
Molecule microscopy 22 p3681 N84-33337
Visualization of the 3-dimensional flow around a model with the aid of a laser knife
[NASA-TM-77497] 23 p3746 N84-33748
Tapered-wiggler free-electron laser oscillator program
[AD-A144053] 23 p3755 N84-33799
Three-dimensional photochemical machining with lasers
[AD-A144096] 23 p3755 N84-33800
Incorporation of an Nd:YAG laser engraver into Mound's machining operations
[DE84-014339] 23 p3755 N84-33801
Preparation of certain m-aminophenols and the use thereof for preparation of laser dyes
[DE84-014232] 23 p3755 N84-33803
Stable mirror mount
[DE84-014250] 23 p3755 N84-33804
Development of hardware and software for automatic optical surface inspection with laser scanners
[BMFT-FB-T-84-111] 23 p3755 N84-33805
Space-variant optical systems
[AD-A143996] 23 p3825 N84-34259
Growth of CdTe/HgTe superlattice with the LADA (Laser Assisted Deposition and Annealing) techniques
[AD-A143948] 23 p3830 N84-34295
USSR report: Materials science and metallurgy, no. 94
[JPRS-85025] 24 p3868 N84-34512
Hardening alloy surfaces by laser irradiation
24 p3869 N84-34518
Influence of laser hardening on mechanical properties of type 45 steel 24 p3873 N84-34546
Estimating target temperature in laser experiments in nitrogen at high pressures 24 p3874 N84-34548
Laser impulse drilling machine discussed
24 p3891 N84-34641
Small orifice laser cutting machine viewed
24 p3891 N84-34642
Direct writing of microstructures for microelectronics
[AD-A144526] 24 p3898 N84-34667
Space laser applications and technologies (SPLAT) — conference
[ESA-SP-202] 24 p3903 N84-34715
ESA and its programs: Present and future
24 p3903 N84-34716
Prospects of laser communications in space
24 p3903 N84-34718
Space laser applications in geophysics
24 p3903 N84-34719
Earth's rotation and its geophysical implications — laser telemetry 24 p3904 N84-34720
Spaceborne lasers in atmospheric research
24 p3904 N84-34721
Outlook of lasers in space operations and navigation
24 p3904 N84-34722
Intersatellite links: Requirements for future missions and limitations from spacecraft resources
24 p3904 N84-34723
Optical data links for the STAR mission
24 p3905 N84-34730
Accuracy requirements of space laser systems for geodetic applications 24 p3906 N84-34736
Laser remote sensing at IROE
24 p3907 N84-34747
Laser control of chemical reactions
[AD-A144359] 24 p3908 N84-34758
Three-dimensional photochemical machining with lasers
[AD-A144656] 24 p3909 N84-34760
Visual function changes after laser exposure
[AD-A144210] 24 p3936 N84-34917

LASER CAVITIES
Phase conjugation in a ring laser cavity
[AD-A131156] 02 p0226 N84-11480
Laser journal (selected articles)
[AD-A131886] 03 p0379 N84-12465
Semiconductors investigated by time resolved raman absorption and photoluminescence spectroscopy using femtosecond and picosecond laser techniques
[AD-A131860] 03 p0379 N84-12466
Laser Resonator
[NASA-CASE-GSC-12565-1] 05 p0686 N84-14509
A low loss quasioptical cavity for a two-stage Free Electron Laser (FEL)
[AD-A133321] 06 p0850 N84-15541
Coherently pumped two-frequency laser-type devices
[AD-A133439] 06 p0850 N84-15545
Two-stage FEL (Free Electron Laser) program
[AD-A133508] 06 p0850 N84-15548
First operation of the Los Angeles free-electron laser oscillator
[DE84-006024] 11 p1664 N84-20656
Implementation and evaluation of two design concepts of the passive ring resonator laser gyroscope
[AD-A138064] 12 p1818 N84-21851
Self-pulsing and chaos in inhomogeneously broadened single-mode lasers 14 p2239 N84-24436
Transverse solitary waves in a dispersive ring bistability cavity containing a saturable nonlinearity
14 p2240 N84-24448
Observation of optical hysteresis in an all-optical passive ring cavity 14 p2240 N84-24447
Absorptive optical bistability in a bad cavity
14 p2240 N84-24448
Numerical simulation of a three-dimensional chemical laser flow field including radiation produced by laser induced fluorescence 16 p2498 N84-26026
Interferometrically tuned laser resonator
[AD-D011125] 22 p3600 N84-32800
Analyses on the low voltage free electron laser
[AD-A143661] 23 p3754 N84-33796

LASER COMMUNICATION
U OPTICAL COMMUNICATION

LASER CUTTING
Laser cutting: An advanced technology in sheet metal working 09 p1293 N84-18452

Laser technology: Material for separating, joining and surface treating
[RKW-636] 16 p2497 N84-28019
Cutting of fiber reinforced polymers with a CW CO-2 laser: An experimental study
[FOA-C-20527-D9] 19 p3030 N84-29220
French firm uses unique flexible workshop with laser cutter 22 p3651 N84-33143
Small orifice laser cutting machine viewed 24 p3891 N84-34642

LASER DAMAGE
Damage thresholds of thin film materials and high reflectors at 248 nm
[DE83-012663] 03 p0380 N84-12472
Characterization by X-ray topography of laser-induced damage in potassium dihydrogen phosphate crystals
[DE83-012045] 03 p0454 N84-12985
Laser effects and vulnerability program. Liquid propellant characterization
[AD-A134584] 07 p1010 N84-16550
Optical properties of metals
[AD-A134285] 07 p1075 N84-16987
Reanalysis methods for structures with laser induced damage
[AD-A135874] 09 p1322 N84-18638
Proceedings of a Symposium on Laser Induced Damage in Optical Materials: 1981
[PB84-127869] 09 p1324 N84-18649
A study of low level laser retinal damage
[AD-A137664] 11 p1695 N84-21055
Pulsed D2-F2 chain-laser damage to coated window and mirror components
[AD-A138911] 13 p1995 N84-22950
Laser Induced Damage in Optical Materials: 1982
[PB84-175124] 16 p2498 N84-26025
Relationship between cardiovascular system response and adrenocortical glucocorticoid function on exposure to diffuse, low-intensity helium-neon laser emission 17 p2741 N84-27405
Damage thresholds of fused silica, plastics and KDP crystals measured with 0.6-ns 355-nm pulses
[DE84-009534] 18 p2847 N84-28080
Laser damage in porous-silica antireflection films
[DE84-009535] 19 p3030 N84-29216
Guidelines for running the thermal computational model of the eye
[AD-A142550] 20 p3260 N84-30688
Analysis of some aspects of mechanism of action of helium-neon laser 21 p3455 N84-31922
Eye safe laser transmitter
[AD-D011145] 22 p3597 N84-32779
Laser damage and effects bibliography. Part 1: Journal literature through 1982
[AD-A144313] 24 p3908 N84-34755
Laser retinal injury
[AD-A144167] 24 p3936 N84-34916

LASER DOPPLER VELOCIMETERS
Velocity Interferometer System for Any Reflector (VISAR): Studies of wave growth in granular explosives
[DE83-013772] * 02 p0204 N84-11330
An analytical and experimental study of spectral analysis techniques for turbulence data obtained using laser velocimetry 02 p0217 N84-11424
Laser velocimetry study of compressibility effects on the flow field of a delta wing 03 p0322 N84-12108
Soot formation from polycyclic aromatics
[DE83-009750] 03 p0349 N84-12271
Measurement of velocity distributions in turbulent jets using a laser Doppler velocimeter
[AD-A132316] 04 p0533 N84-13506
Multicomponent velocity measurement in a pison-cylinder configuration using laser velocimetry
[NASA-TM-83534] 05 p0627 N84-14121
Flow visualization and LDV measurement of turbulent mixing layers
[REPT-606] 06 p0834 N84-15424
Laser velocimetry in the low-speed wind tunnels at Ames Research Center
[NASA-TM-85885] 07 p1007 N84-16526
Powder fed sheared dispersal particle generator
[NASA-CASE-LAR-12785-1] 07 p1011 N84-16561
Photon-burst correlation techniques for atmospheric crosswind measurements
[AD-A134617] 08 p1187 N84-17735
Particle sizing in a fuel-rich ramjet combustor
[AD-A135632] 09 p1257 N84-18204
Experimental study of the separating confluent boundary-layer. Volume 2: Experimental data
[NASA-CR-166016] 11 p1600 N84-20481
Beta systems error analysis
[NASA-CR-170998] 11 p1705 N84-21117
Laser Doppler velocimetry measurements of mean velocity and turbulent stress tensor components in a free isothermal swirling jet
[UTIAS-281] 12 p1815 N84-21830
Laser velocimeter optical traverse scheme: An investigation of a proposed optical scanning technique for Arnold Engineering and Development Center's four-foot transonic wind tunnel
[AD-A138168] 12 p1818 N84-21853
Transonic nozzle-afterbody flow field measurements using a laser Doppler velocimeter 14 p2098 N84-23592
A review of internal combustion engine combustion chamber process studies at NASA Lewis Research Center
[NASA-TM-83666] 15 p2331 N84-24999
Spinning disk calibration method and apparatus for laser Doppler velocimeter
[NASA-CASE-ARC-11510-1] 15 p2335 N84-25015
Molecular velocimetry using stimulated Raman spectroscopy
[NASA-TM-85808] 15 p2405 N84-25433
Experimental investigation of shock-cell noise reduction for single-stream nozzles in simulated flight, comprehensive data report. Volume 2: Laser velocimeter data
[NASA-CR-168234-VOL-2] 22 p3652 N84-33149
Software for a computer controlled laser Doppler velocimeter
[AD-A143786] 23 p3815 N84-34193
Wake profile measurements of fixed and oscillating flaps
[NASA-CR-166602] 24 p3852 N84-34428
Three-dimensional laser Doppler anemometer measurements of a jet in a crossflow
[NASA-TM-85997] 24 p3900 N84-34695

LASER DRILLING
Laser drilling of aero engine components
[PNR-90185] 13 p1996 N84-22956
High speed laser formation of small diameter apertures in printed circuit board blanks 24 p3874 N84-34547
Laser impulse drilling machine discussed 24 p3891 N84-34641

LASER FUSION
Development of a focussing-crystal spectrograph for X-rays from laser-fusion targets
[DE83-012602] 01 p0148 N84-10973
A laser-fusion rocket for interplanetary propulsion
[DE84-001238] 04 p0490 N84-13219
NOVANET: Communications network for a control system
[DE83-013862] 04 p0523 N84-13436
Measuring the neutron energy spectrum of laser-fusion targets with CR-39
[DE84-001422] 04 p0539 N84-13543
Simulations and theoretical implications of KMS transport experiments for 1.05 micron and 0.53 micron laser radiation
[DE84-000624] 04 p0542 N84-13570
Silicon switch development for optical pulse generation in fusion lasers at Lawrence Livermore National Laboratory
[DE84-002798] 07 p1011 N84-16556
Chemical treatment of silicate glasses for producing anti-reflection surfaces
[DE84-005865] 11 p1732 N84-21299
Diagnostics and simulation in G-XII implosion experiments 11 p1735 N84-21316
Atomic processes for modeling of inertial confinement fusion plasma 11 p1735 N84-21317
Gas filled dynamics for laser driven fusion reactors
[DE84-005181] 12 p1910 N84-22444
Television system for monitoring target position in laser thermonuclear fusion experiments 13 p1969 N84-22781
Absolutely uniform illumination of laser fusion pellets
[AD-A138944] 13 p1995 N84-22951
Application for surveying technology for the alignment of large optical systems
[DE84-006005] 14 p2225 N84-24353
Ultrafast gated intensifier design for laser fusion X-ray framing applications
[DE84-007761] 15 p2339 N84-25038
Disassembly of isochorically heated liquids
[DE84-009536] 19 p3108 N84-29747
Reflex ring laser amplifier system
[DE84-010874] 20 p3193 N84-30282
Studies of amplifier module in Delfin Facility for heating thermonuclear plasma 20 p3269 N84-30881
Operational performance of the Antares alignment system
[DE84-012659] 21 p3410 N84-31632
Wide spectrum antireflective coating for laser fusion systems
[DE84-013211] 22 p3601 N84-32814

LASER GEODYNAMIC SATELLITE
U LAGEOS (SATELLITE)

LASER GUIDANCE
Target track and stabilization for manportable direct fire missiles
[AD-A136218] 09 p1271 N84-18306
Outlook of lasers in space operations and navigation 24 p3904 N84-34722

LASER GYROSCOPES
Flight test results of the strapdown ring laser gyro tetrad inertial navigation system
[NASA-TM-84358] 02 p0176 N84-11157
Micro-Optic gyro technology
[AD-A130990] 02 p0223 N84-11461
Evaluation of the stochastic drift of rate integrating gyros as preparation for the analysis of laser gyro drift measurements
[DFVLR-MITT-83-04] 03 p0376 N84-12449
Reflectivity measurements of laser gyro mirrors
[DFVLR-FB-83-35] 12 p1909 N84-22434
Laser pulse detection method and apparatus
[NASA-CASE-NPO-16030-1] 15 p2339 N84-25037
Advances in Strapdown Inertial Systems
[AGARD-LS-133] 16 p2446 N84-25691
Advances in strapdown sensors 16 p2446 N84-25693
Investigations on the lock-in problem and the readout technique of laser gyros
[ESA-TT-773] 16 p2496 N84-26014

LASER HEATING
Radial plasma measurements and calculations in the center of a 3-meter laser-heated theta pinch
[DE83-015545] 01 p0150 N84-10989
Semiconductor processing with excimer lasers
[DE83-007509] 03 p0380 N84-12477
Preparation of infrared optic fibers using new materials
[AD-A132311] 04 p0604 N84-13988
Pulsed laser melting: The effect of implanted solutes on the resolidification velocity
[DE84-003252] 07 p1010 N84-16552
The role of phonons in the excitation and relaxation of adspecies
[AD-A137066] 10 p1455 N84-19504
The Z-pinch program at Imperial College 10 p1583 N84-20372
A study of adherent oxide formation
[AD-A139505] 14 p2123 N84-23722
CO-2 laser heating of silicon and applications
[DE84-008273] 15 p2339 N84-25042
Experiments and theory on half-harmonic light and 2-plasmon decay
[DE84-008945] 20 p3193 N84-30276
Heating and implosion of spherical targets irradiated by laser 20 p3288 N84-30879
Plasma simulation studies of electron acceleration for beat wave and single frequency-laser heating schemes
[DE84-009988] 20 p3305 N84-30992
Surface modification and coatings: A technical assessment
[DE84-012483] 21 p3372 N84-31396
Supersonic metal cluster beams
[DE84-012976] 22 p3556 N84-32516
Sinterable ceramic powders from laser heated gas phase reactions and rapidly solidified ceramic materials
[AD-A144439] 24 p3889 N84-34627

LASER INTERFEROMETRY
The JILA (Joint Institute for Laboratory Astrophysics) portable absolute gravity apparatus
[AD-A132199] 05 p0684 N84-14495
Advanced techniques of laser telemetry 06 p0906 N84-15883
Application of holography to flow visualization
[NASA-TM-84325] 07 p1007 N84-16530
Surface topographical changes measured by phase-locked interferometry
[NASA-CR-3757] 07 p1074 N84-16984
A search for gravitational radiation from PSR 1937 + 214 08 p1185 N84-17717
Time-varying speckle phenomena in astronomical imaging and in laser scattering 08 p1242 N84-18118
Fuel spray diagnostics 11 p1608 N84-20527
Analysis and testing of a new method for drop size and velocity measurements using laser light scatter interferometry 11 p1608 N84-20529
Measurement of spray combustion processes 11 p1609 N84-20530
INTFL-8401 computer tomography for interferomatic aerodynamic measurements
[AD-A139591] 14 p2101 N84-23611
A new optical technique for rapid determination of creep and fatigue thresholds at high temperature
[AD-A142675] 20 p3202 N84-30341
Holographic image subtraction by recording in Fourier plane and space filtration with thin light beam 20 p3289 N84-30882

Analysis and testing of a new method for drop size measurement using laser scatter interferometry
[NASA-CR-174636] 21 p3405 N84-31595
Stress studies in EFG
[NASA-CR-173960] 23 p3787 N84-34018
Future of laser interferometry in space
24 p3906 N84-34737

LASER MATERIALS

Radiation and laser potential of homo and heteronuclear rare-gas diatomic molecules
[AD-A130093] 01 p0141 N84-10929
Laser interaction with metallic surfaces
[AD-A126269] 03 p0378 N84-12464
NdP5O14 crystal used for miniature rangefinder
[AD-A132541] 04 p0539 N84-13549
Solar pumped laser
[NASA-CASE-LAR-12870-1] 07 p1009 N84-16542
Insulator materials in high power lasers for inertial fusion: Present and future
[DE84-003738] 08 p1234 N84-18063
Photochemistry and photophysics of laser dyes
[AD-A136330] 09 p1320 N84-18626
Photophysical and photochemical properties of coumarin laser dyes in amphiphilic media
[AD-A136361] 09 p1321 N84-18630
Spectroscopic evaluation of Nd(3+):CAMGAR and H sub o(3+):YLF as 0.94 micrometer lasers
[AD-A137610] 11 p1662 N84-20845
Bibliography of Soviet laser developments, number 64, March -April 1983
[AD-A141906] 20 p3193 N84-30275
Modal parameter estimation via shaker versus speaker excitation
[DE84-012897] 21 p3345 N84-31223
Recent damage results for antireflection coatings at 355 NM
[DE84-011560] 21 p3371 N84-31388
Studies of new media radiation induced laser
[NASA-CR-173846] 21 p3408 N84-31616
IRIS pulsing ruby light source
21 p3482 N84-32066
Replication of high power laser mirrors
[AD-D011140] 22 p3656 N84-33177

LASER MODE LOCKING

Scaling studies of efficient Raman converters
[AD-A130382] 01 p0066 N84-10560
InP:Fe picosecond photoconductors
[DE83-015237] 02 p0215 N84-11410
Intrinsic instabilities in homogeneously broadened lasers 14 p2235 N84-24411
Five times compression of mode-locked argon ion laser pulses
[AD-A139635] 15 p2339 N84-25040
Investigations on the lock-in problem and the readout technique of laser gyros
[ESA-TT-773] 16 p2496 N84-26014

LASER MODES

A low loss quasioptical cavity for a two-stage Free Electron Laser (FEL)
[AD-A133321] 06 p0850 N84-15541
Evolution of the transverse modes in a FEL (Free Electron Lasers), and application to the Orsay experiment
[AD-A137797] 11 p1663 N84-20849
Intrinsic instabilities in homogeneously broadened lasers 14 p2235 N84-24411
Self-pulsing and chaos in inhomogeneously broadened single-mode lasers 14 p2239 N84-24438
IRIS pulsing ruby light source
21 p3482 N84-32066
Optically pumped polarized alkali atomic beams and targets
[DE84-012389] 21 p3495 N84-32147
A compact frequency-stable pulsed CO-2 laser
[AD-A143216] 22 p3600 N84-32806
Dynamic testing of NOVA laser structural systems. The north side of Spaceframe Tower
[DE84-014830] 22 p3602 N84-32816

LASER OUTPUTS

Academician outlines accomplishments, new developments in optical physics
01 p0055 N84-10359
E-beam pulsewidth scaling for a large KrF laser
[DE83-013632] 01 p0087 N84-10571
Laser accelerators
[DE83-016123] 02 p0227 N84-11489
Molecular-beam studies of photodissociation reactions
[DE83-015962] 02 p0228 N84-11492
Particle-velocity measurements of laser-induced shock waves using ORVIS
[DE83-016503] 02 p0228 N84-11494
Laser journal (selected articles)
[AD-A131886] 03 p0379 N84-12485
Windows and mirrors needed for a laser-driven photoneutralizer
[DE83-013582] 03 p0380 N84-12473
Inertial effects in laser-driven ablation
[DE83-016941] 03 p0380 N84-12478
Dissociative ionization of liquid water induced by vibrational overtone excitation
[DE83-017739] 04 p0495 N84-13251
High energy efficient solid state laser sources --- slab geometry laser sources
[NASA-CR-174606] 04 p0539 N84-13548
Laser-induced fluorescence line narrowing in atomic vapors
[DE83-018216] 04 p0541 N84-13558
Studies of ions in a drift field: Laser diagnostics of excited states and measurements of thermochemical properties at equilibrium
[DE84-000363] 04 p0541 N84-13562
Particle velocity measurements in laser irradiated foils using ORVIS
[DE83-016629] 04 p0541 N84-13563
Narrow-band, near-UV, high-repetition-rate laser-induced fluorescence system for use as an dge diagnostic in fusion machine
[DE84-000586] 04 p0542 N84-13567
Profile of laser-produced acoustic pulse in a liquid
[AD-A134138] 05 p0666 N84-14510
On laser air breakdown, threshold power and laser generated channel length
[AD-A133211] 06 p0849 N84-15538
Application of two-dimensional discrete-ordinates methods to multiple scattering of laser radiation
[AD-A133258] 06 p0849 N84-15539
Limiting energy spread at high laser intensities using phase space displacement
[AD-A133322] 06 p0850 N84-15542
Copper vapor laser scale demonstration
[AD-A133327] 06 p0850 N84-15543
Variation of laser absorption with plasma scalelength in long-scalelength plasmas
[DE84-002743] 06 p0921 N84-15991
Saturation processes in doppler-broadened HF vibrational transitions
[AD-A134282] 07 p1009 N84-16546
Laser cooling and trapping of neutral atoms
[AD-A134333] 07 p1009 N84-16547
Experimental apparatus for studying moving thermoacoustic sources
[AD-A134517] 07 p1010 N84-16549
Pulsed-laser atom probe: Recent applications
[DE82-020093] 07 p1010 N84-16551
Laser-induced molecular dynamics: Rate processes in the gas phase and at solid surfaces
[AD-A134426] 07 p1072 N84-16962
Comparison of thermal, line-source electron beam and CW laser annealing for the fabrication of ErSi/sub 2 Schottky barrier on Si
[DE84-003105] 07 p1081 N84-17031
Threshold kinetics of a solar-simulator-pumped iodine laser
[NASA-TP-2241] 08 p1163 N84-17575
The evolution of spontaneous and coherent radiation in the free electron laser oscillator
[AD-A134458] 08 p1165 N84-17583
Radially resolved simulation of a high-gain free electron laser amplifier
[DE84-003751] 08 p1165 N84-17585
Suggested state regulations for control fo radiation. Volume 2: Nonionizing radiation, lasers
[PB84-109669] 08 p1165 N84-17587
Theoretical study of laser-stimulated chemical vapor deposition processes of importance in microelectronics
[AD-A136433] 09 p1321 N84-18631
Fabry-Perot interference filters
[AD-A136511] 09 p1388 N84-19066
Phase conjugate optical resonator
[AD-A136071] 09 p1390 N84-19077
Picosecond laser pulse interactions with metallic and semiconductor surfaces
[AD-A135693] 09 p1395 N84-19112
Transverse and quantum effects in light control by light; (A) parallel beams: Pump dynamics for three level superfluorescence; and (B) counterflow beams: An algorithm for transverse, full transient effects in optical bi-stability in a Fabryperot cavity
[AD-A136906] 10 p1578 N84-20342
Development of the CARS method for measurement of pressure and temperature gradients in centrifuges
[DE84-006321] 11 p1629 N84-20660
New results of the ACO storage ring free electron laser
[AD-A137785] 11 p1663 N84-20848
A study of low level laser retinal damage
[AD-A137664] 11 p1695 N84-21055
Temporal measurement of spectrally resolved output of multiline HF lasers
[AD-A137983] 12 p1819 N84-21859
The construction of a Nd:YAG laser and observation of the output
[AD-A138055] 12 p1820 N84-21860
Analysis of laser spot quality
[AD-A138056] 12 p1820 N84-21861
Microwave excitation of a CO2 laser
[AD-A138057] 12 p1820 N84-21862
Study of a tunable CO2/N2O medium pressure waveguide laser
[AD-A138078] 12 p1820 N84-21863
Method of and apparatus for double-exposure holographic interferometry
[NASA-CASE-MFS-25405-1] 13 p1992 N84-22929
Method and apparatus for coating substrates using a laser
[NASA-CASE-LEW-13526-1] 13 p1995 N84-22944
An automated system for characterizing laser pulses
[AD-A138580] 13 p1995 N84-22945
Absolutely uniform illumination of laser fusion pellets
[AD-A138944] 13 p1995 N84-22951
Safety eye protection through use of fast acting optical switching
[AD-A138582] 13 p2023 N84-23120
Satellite tracking and Earth dynamics research programs
[NASA-CR-173502] 14 p2112 N84-23661
Self-defocusing and optical crosstalk in a bistable optical etalon 14 p2234 N84-24403
Self-beating instabilities in bistable devices
14 p2236 N84-24415
Absorptive optical bistability with laser amplitude fluctuations 14 p2238 N84-24430
Polarization switching with sodium vapour
14 p2239 N84-24445
Model calculations for a CO2 mixing laser with screen nozzle
[DFVLR-FB-83-41] 15 p2339 N84-25039
XeF pumped Tm:YLF laser scaling
[AD-A140004] 15 p2339 N84-25041
Nd: YAG laser improvements and modifications
[DE84-009024] 15 p2340 N84-25044
Collective instabilities and high-gain regime free electron laser
[DE84-006172] 15 p2340 N84-25045
Functional assessment of laser irradiation
[AD-A139490] 15 p2378 N84-25273
Functional assessment of laser irradiation
[AD-A139507] 15 p2378 N84-25274
Electric-dipole moment of CaF by molecular-beam, laser-RF, double-resonance study of Stark splittings
[DE84-005413] 15 p2405 N84-25439
Channel cooling by turbulent convective mixing
[AD-A139724] 15 p2410 N84-25466
Studies on light scattering and absorption properties of ice clouds for visible and infrared laser wavelengths
[AD-A140528] 16 p2557 N84-26405
Photoelectric master means of measurement of energy and maximum power of pulsed lasers
17 p2637 N84-26872
Precision photometer for measurement of low levels of maximum power of pulses laser radiation
17 p2638 N84-26873
Optimum time of day and night for measuring distances in turbulent atmosphere with optical range finders (case of high rise of laser beam above ground surfaces)
17 p2638 N84-26875
USSR Report: Life sciences biomedical and behavioral sciences
[JPRS-UBB-84-013] 17 p2740 N84-27397
Relationship between cardiovascular system response and adrenocortical glucocorticoid function on exposure to diffuse, low-intensity helium-neon laser emission
17 p2741 N84-27405
Laser cell analyzer 17 p2741 N84-27406
Uniform magnetic-field-induced free-electron laser in a waveguide
[AD-A141195] 18 p2846 N84-28073
Study of avalanche discharge lasers
[AD-A141203] 18 p2846 N84-28074
Locking of diode gain modules using optical conjugation techniques
[AD-A141234] 18 p2846 N84-28075
Search for extended-lifetime optically excited laser media
[DE84-009795] 18 p2847 N84-28076
Diode-laser gas analyzer for geophysical studies
18 p2859 N84-28155
Mathematical modelling of Laser/Material interactions
[AD-A141096] 19 p3029 N84-29208
Electron impact cross sections for molecular lasers
[AD-A141754] 19 p3029 N84-29211
In-line, concurrent electromagnetic beam analyzer
[AD-D011040] 19 p3102 N84-29704
Experiments and theory on half-harmonic light and 2-plasmon decay
[DE84-008945] 20 p3193 N84-30276

Capillary separations with calorimetric absorbance detection
[DE84-012466] 20 p3195 N84-30291
New phase transition in Si and GaAs exposed to picosecond laser pulses 20 p3266 N84-30866
Impact of laser radiation on optical properties of polymer liquid crystal in phase transition range 20 p3266 N84-30868
Simulations of erosion/corrosion surface chemical reactions with a laser beam
[AD-A143001] 21 p3366 N84-31354
Laser Induced Chemistry. 1984 JPM Specialist Session
[AD-A142922] 21 p3372 N84-31400
CO2 laser decomposition of the alkyl phosphites 21 p3373 N84-31402
Laser induced polymerization reactions in solid propellant binders 21 p3373 N84-31403
Laser induced nitrations of some aliphatic hydrocarbon compounds 21 p3373 N84-31404
Disappearance rates of C2(a 3 Pi u) and C2(X 1 Sigma g +) with O2 over the temperature range 298-1300 deg K 21 p3373 N84-31405
Alignment of multistate laser amplifiers with periodic space filtration of beam 21 p3381 N84-31452
A blackbody-pumped CO2-N2 transfer laser
[NASA-TP-2347] 21 p3408 N84-31617
Diagnostics for an XUV/soft X-ray laser
[DE84-012593] 21 p3410 N84-31628
Analysis of some aspects of mechanism of action of helium-neon laser 21 p3455 N84-31922
Relation between pressure pulse generated in optoacoustic receiver and intensity of stimulating laser pulse 21 p3478 N84-32047
Improving energy performance and duty time of production process CW electrical ionization CO2 lasers by using five-component lasing mixtures 21 p3481 N84-32065
Experiments in development of powerful dye laser 21 p3486 N84-32095
Multifrequency emission from submillimeter lasers 21 p3487 N84-32096
Focusers of obliquely incident laser radiation 21 p3487 N84-32099
High density Z pinch as a small low-energy fusion device
[DE84-009992] 21 p3502 N84-32198
Pulsed hydrogen-fluoride laser
[MRL-R-831] 22 p3600 N84-32803
Practical problems with CO2 laser radar tests
[RAE-TRANS-2113] 22 p3600 N84-32804
A compact frequency-stable pulsed CO-2 laser
[AD-A143216] 22 p3600 N84-32806
Visible and near-infrared dissociation lasers
[AD-A143295] 22 p3601 N84-32807
Laser beam duct pressure controller system
[AD-D011102] 22 p3601 N84-32811
Beam recombination via cylindrical mirror
[AD-D011104] 22 p3601 N84-32812
Laser utilizing a gaseous lasing medium and method for operating the same
[DE84-014500] 22 p3602 N84-32819
Evaluation and control of laser hazards 22 p3632 N84-33016
Free charged particle behavior in intense laser fields
[DE84-013700] 22 p3653 N84-33160
Optical distortion analyzer system
[AD-D011127] 22 p3656 N84-33176
Scintillometer for measuring atmospheric turbulence
[FOA-C-30363-E1] 23 p3752 N84-33785
Laser beam technology promoting high speed and selective plating processes
[AD-A143715] 23 p3754 N84-33797
Research studies on magnetohydrodynamic systems and modeling solar dynamical behavior
[AD-A143680] 23 p3844 N84-34389
High speed laser formation of small diameter apertures in printed circuit board blanks 24 p3874 N84-34547
Estimating target temperature in laser experiments in nitrogen at high pressures 24 p3874 N84-34548
Design criteria for space based laser ranging systems 24 p3908 N84-34751
Small continuous wave (CW) HF chemical laser
[AD-A144322] 24 p3908 N84-34756
Parametric characteristics of an electrically initiated HF laser
[AD-A144324] 24 p3908 N84-34757
Laser retinal injury
[AD-A144187] 24 p3936 N84-34916
Studies of compound states of atomic negative ions using laser beams
[AD-A144653] 24 p3962 N84-35091

LASER PLASMA INTERACTIONS

Radial plasma measurements and calculations in the center of a 3-meter laser-heated theta pinch
[DE83-015545] 01 p0150 N84-10989
Investigation of a microwave discharge in argon/helium mixtures
[LP-202] 07 p0995 N84-16451
Influence of a plasma during laser welding
[DE84-004414] 10 p1502 N84-19620
The 16th European Conference on Laser Interaction With Matter, Book of Abstracts
[AD-A136316] 12 p1821 N84-21868
Short-pulse laser and plasma surface interactions
[AD-A144538] 24 p3965 N84-35109

LASER PLASMAS

Stimulated Brillouin backscatter in long scale length plasmas
[DE83-013817] 01 p0150 N84-10984
Time-resolved spectral measurements above 80 A
[DE83-015616] 03 p0446 N84-12933
New concepts in particle acceleration
[DE83-017747] 04 p0800 N84-13961
Development of an XUV amplifier 06 p0848 N84-15532
On laser air breakdown, threshold power and laser generated channel length
[AD-A133211] 06 p0849 N84-15536
Variation of laser absorption with plasma scalelength in long-scalelength plasmas
[DE84-002743] 06 p0921 N84-15991
X-ray production in long-scale length laser-plasma interaction experiments
[DE84-002472] 07 p1076 N84-16997
Beam front accelerators
[DE84-003709] 08 p1229 N84-18032
Development of X-ray laser media. Measurement of gain and development of cavity resonators for wavelengths near 130 angstroms, volume 1
[AD-A136305] 09 p1320 N84-18621
Development of X-ray laser media. Measurement of gain and development of cavity resonators for wavelengths near 130 angstroms, volume 2
[AD-A136306] 09 p1320 N84-18622
Development of soft X-ray streak cameras at Lawrence Livermore National Laboratory
[DE83-015641] 10 p1499 N84-19797
Surfatron laser-plasma accelerator: Prospects and limitations
[DE84-005497] 11 p1663 N84-20854
Prospects of the surfatron laser plasma accelerator
[DE84-005463] 11 p1738 N84-21336
Specifics of structure formation in nitrides synthesized by laser action on metals 12 p1784 N84-21640
Magnetic bubble formation produced by an expanding laser plasma
[AD-A139188] 14 p2228 N84-24359
Short-pulse short-wavelength optical probe for laser plasma
[DE84-008336] 14 p2230 N84-24375
Blast-wave analysis of high-pressure coupling shells
[AD-A139687] 15 p2350 N84-25108
Low energy X-ray and electron physics and applications to diagnostics development for laser-produced plasma research
[DE84-009642] 18 p2934 N84-28604
Influence of collisions on the magnetized ion-ion instability
[AD-A141464] 19 p3101 N84-29696
Line intensities for diagnosing laser-produced plasmas
[DE84-009857] 19 p3106 N84-29738
Holographic interferometry using 20-picosecond UV pulses to obtain time resolved hydro measurements of selenium and gold plasmas
[DE84-009485] 20 p3191 N84-30269
A convective mechanism for inhibition of heat conduction in laser produced plasmas
[DE84-011336] 20 p3194 N84-30289
VUV instrument calibrations for laser-plasma studies
[DE84-010507] 20 p3303 N84-30974
Measurements of spatially resolved high resolution spectra of laser-produced plasmas
[DE84-012418] 20 p3305 N84-30995
Observation of scattered light between Omega-2 and 3/2-Omega in short wavelength laser produced plasmas
[DE84-012533] 20 p3306 N84-31001
Studies of CO2 laser interactions with plasma
[DE84-012485] 20 p3307 N84-31004
A new model of Raman spectra in laser produced plasma
[DE84-012487] 20 p3307 N84-31005
A new model of Raman spectra in laser produced plasma
[DE84-009625] 21 p3501 N84-32188
How useful are odd-integer half-harmonics
[DE84-012392] 21 p3501 N84-32190
Modified Thomson parabola ion spectrometers for use in laser generated plasma experiments
[AD-A143298] 22 p3658 N84-33190
A study of long aerosol initiated laser induced air breakdown plasmas
[AD-A143967] 23 p3828 N84-34279

LASER PROPULSION

Hydrogen ignition for laser propulsion 06 p0928 N84-16026
Experimental and theoretical studies of laser propulsion phenomenology
[AD-A140995] 18 p2846 N84-28069

LASER PUMPING

Continued investigation of the atomic physics of flashlamp pumped cesium-neon lasers
[AD-A130223] 01 p0086 N84-10561
Nd(3+): Yag laser pumped simultaneously by CW and pulsed light
[AD-A131092] 01 p0086 N84-10564
Pulse power for the RAPIER B amplifier KrF laser system
[DE83-012951] 01 p0088 N84-10573
Optically pumped ultraviolet and infrared lasers driven by exploding metal films and wires
[DE83-014169] 02 p0226 N84-11484
A novel 15.9-micron source
[DE83-015234] 02 p0227 N84-11490
RF conditioned dc discharges for excitation of rare gas halide lasers
[DE83-016537] 03 p0361 N84-12479
Ukrainian Physics Journal (selected articles)
[AD-A131087] 03 p0429 N84-12814
Laser optical pumping of sodium and lithium atom beams 06 p0849 N84-15534
Coherently pumped two-frequency laser-type devices
[AD-A133439] 06 p0850 N84-15545
Solar pumped laser
[NASA-CASE-LAR-12870-1] 07 p1009 N84-16542
Analysis of a 10 megawatt space-based solar-pumped neodymium laser system
[NASA-CR-3774] 07 p1009 N84-16544
Threshold kinetics of a solar-simulator-pumped iodine laser
[NASA-TP-2241] 08 p1163 N84-17575
Theoretical studies of solar-pumped lasers
[NASA-CR-173263] 08 p1164 N84-17576
Modeling study of a CW HF resonance transfer laser medium
[AD-A134866] 08 p1164 N84-17580
Spectroscopic evaluation of Nd(3+):CAMGAR and H sub o(3+):YLF as 0.94 micrometer lasers
[AD-A137610] 11 p1662 N84-20845
Microwave excitation of a CO2 laser
[AD-A138057] 12 p1820 N84-21862
Spectroscopic investigations of materials for tunable infrared lasers
[AD-A138324] 12 p1821 N84-21869
Intensity and absorbed-power distribution in a cylindrical solar-pumped dye laser
[NASA-TP-2321] 14 p2150 N84-23878
Nonlinear interactions between the pumping kinetics, fluid dynamics and optical resonator of CW fluid flow lasers
[AD-A139189] 14 p2150 N84-23882
Theoretical and experimental investigations for the construction of a continuous, RF-excited waveguide CO2-laser with high frequency tunability and high output power
[IPF-83-1] 14 p2151 N84-23889
Dye laser traveling wave amplifier
[NASA-CR-175228] 15 p2338 N84-25036
XeF pumped Tm:YLF laser scaling
[AD-A140004] 15 p2339 N84-25041
A z-pinch photo-pumped pulsed atomic iodine laser
[AD-A140033] 15 p2410 N84-25468
Theoretcial studies of solar-pumped lasers
[NASA-CR-173833] 20 p3192 N84-30274
A blackbody-pumped CO2-N2 transfer laser
[NASA-TP-2347] 21 p3408 N84-31617
Nonlinear theory of the free-electron laser
[INPE-3193-PRE/557] 21 p3409 N84-31618
Soft X-ray laser experiments at Norvette Laser Facility
[DE84-012594] 21 p3410 N84-31627
IRIS pulsing ruby light source 21 p3482 N84-32066
New type of dye laser with light-induced distributed feedback 21 p3482 N84-32067
Source of optical pumping for high-resolution spectroscopy with semiconductor laser 21 p3482 N84-32070
Millimetre waves: A problem for the future 24 p3915 N84-34790

LASER RADAR

U OPTICAL RADAR

LASER RANGE FINDERS

Experimental and theoretical analysis of the relation between received signal power and signal to noise ratio of a heterodyne laser detection system
[PHL-1983-02] 02 p0228 N84-11495

Y03: Prequalification of surface treatment. Measurement of laser reflecting power — Earth-Moon telemetry
[ESA-TT-791] 03 p0382 N84-12490
Retroreflector YO3: Study of the optical properties of protected mirrors — Earth-Moon telemetry
[ESA-TT-789] 03 p0443 N84-12907
NdP5O14 crystal used for miniature rangefinder
[AD-A132541] 04 p0539 N84-13549
Rivista Tecnica Selenia, volume 8, number 2, 1982
06 p0906 N84-15882
Advanced techniques of laser telemetry
06 p0906 N84-15883
Upgrading and performance of the SAO laser ranging system in Matera
[NASA-CR-173176] 07 p1009 N84-16543
Basic research for the geodynamics program
[NASA-CR-175337] 07 p1032 N84-16699
The mobile laser ranging system and its planned use in the framework of international research on geodynamics 08 p1174 N84-17649
Earth strain measurements with the transportable laser ranging system: Field techniques and planning
[NASA-CR-175150] 08 p1186 N84-17725
Laser range finding technology for space to space applications. Volume 1: Laser diode range finder functional model
[MBB-UR-606-83-O-VOL-1] 09 p1324 N84-18648
The construction of a highly transportable laser ranging station
[NASA-CR-175400] 10 p1500 N84-19803
A CW-CO2 laser range finder using heterodyne detection and on-off amplitude modulation
[PHL-1983-34] 12 p1821 N84-21871
Use of fiber light guides for evaluation of precision characteristics of pulsed laser range finders
17 p2637 N84-26870
Optimum time of day and night for measuring distances in turbulent atmosphere with optical range finders (case of high rise of laser beam above ground surfaces)
17 p2638 N84-26875
Laser ranging technology for space to space applications. Volume 2: High stability CO2-laser for range rate finder development of critical technologies
[ESA-CR(P)-1677] 17 p2673 N84-27035
Design and operation mode of Nd:YAP lasers in Modular Transportable Laser Ranging System (MTLRS)
19 p3040 N84-29290
A comparison between Lageos laser ranging and VLBI determined baselines 20 p3220 N84-30459
Sensitivity of SLR baselines to errors in Earth orientation 20 p3220 N84-30461
Recommended program activities, 1968-1998
20 p3223 N84-30478
Phase light range finder 21 p3380 N84-31447
A compact frequency-stable pulsed CO-2 laser
[AD-A143216] 22 p3600 N84-32806
Performance capabilities of laser ranging sensors — space applications 24 p3904 N84-34726
Systems analysis and computer simulation studies of the laser ranging measurement process
24 p3906 N84-34739
Generation of ultra-short laser pulses in the visible and near infrared for a spaceborne laser ranging transmitter
24 p3906 N84-34740
Circular-scan photochron streak camera for spaceborne laser ranging applications 24 p3906 N84-34741
Space/Airborne Laser Ranging (SALR) as complement to groundbased transportable Satellite Laser Ranging (SLR) — crystal dynamics 24 p3906 N84-34742
Design criteria for space based laser ranging systems
24 p3906 N84-34751
Continuous wave (CW) diode laser instrumentation for rendezvous and docking mansuvers in geosynchronous orbits 24 p3908 N84-34752
Laser diode range finder - target acquisition and tracking system functional model/demonstration model
24 p3908 N84-34754
Geophysical interpretation of satellite laser ranging measurements of crustal movement in California
[NASA-TM-86148] 24 p3919 N84-34808

LASER RANGER/TRACKER
Laser range finding technology for space to space applications. Volume 1: Laser diode range finder functional model
[MBB-UR-606-83-O-VOL-1] 09 p1324 N84-18648
The observation of artificial satellites and VLBI
10 p1519 N84-19946
Results of laser ranging collocations during 1983
20 p3220 N84-30458
Performance capabilities of laser ranging sensors — space applications 24 p3904 N84-34726
Laser remote sensing at IROE
24 p3907 N84-34747

LASER SPECTROMETERS
Precision measurements of line positions and profile at a wavelength of ten micrometers — infrared spectroscopy
[MPE-180] 10 p1579 N84-20348
Investigations of radical-radical reactions using a far infrared Laser Magnetic Resonance (Fir-LMR) spectrometer
[MPIS-4/1983] 13 p1958 N84-22730
Total aerosol volume computed from laser spectrometer particle-size data for comparison with flame photometer total-mass data
[AD-A143171] 21 p3359 N84-31306
Investigation of reactions of the methylene radical by means of a far infrared-laser magnetic resonance (FIR-LMR) spectrometer
[MPIS-4/1984] 24 p3881 N84-34588

LASER SPECTROSCOPY
NT OPTOGALVANIC SPECTROSCOPY
Use of fiber optics and laser-induced fluorescence for remote measurements of UF6 in strong rotation
[DE83-014195] 01 p0068 N84-10575
Laser techniques for extreme-ultraviolet spectroscopy
[DE83-014834] 02 p0227 N84-11486
Laser spectroscopy of propellant-like flames
[AD-A132042] 03 p0349 N84-12267
Investigation of inhomogeneity in ceramic reactor materials using laser-localized emission spectroscopy
[JUEL-1834] 03 p0357 N84-12323
Laser physics and laser spectroscopy
[AD-A131720] 03 p0379 N84-12470
Infrared-laser spectroscopy using a long-pathlength absorption cell
[DE83-014197] 03 p0381 N84-12480
Laser-induced fluorescence spectroscopy for improved chemical analysis
[DE84-000629] 04 p0494 N84-13243
Approach to single-molecule detection by laser-induced fluorescence
[DE84-001338] 04 p0542 N84-13572
Instrumentation for remote sensing over fiber optics
[DE84-001788] 04 p0605 N84-13991
Fundamental combustion and diagnostics research at Sandia
[DE84-001787] 05 p0651 N84-14280
Subpicosecond-relaxation studies using tunable-laser-induced-grating techniques
06 p0848 N84-15531
Coherent effects in laser spectroscopy
06 p0849 N84-15533
Resonance ionization mass spectroscopy at Los Alamos National Laboratory
[DE84-001705] 07 p0972 N84-16297
Pure rotational spectroscopy of SO2 using fix line far-infrared lasers
[DE84-001427] 07 p0972 N84-16301
Detection of elements in biomedical fluids by laser-induced breakdown spectroscopy
[DE84-003838] 08 p1126 N84-17319
Combustion gas spectroscopy using tunable lasers
[DE84-004976] 08 p1126 N84-17320
Laser diagnostic development and measurement and modeling of turbulent flowfields of jets and wakes. Part 3: The development of a 2-channel CW Time-Resolves Laser Raman Spectroscopy (TiLaRS) system for measurements in gas flowfields
[AD-A134693] 08 p1159 N84-17544
Sensitive collinear laser spectroscopy on fast atom and ion beams
[DE84-003403] 10 p1456 N84-19512
In situ laser measurements of silicon CVD
[DE84-004148] 10 p1501 N84-19809
Laser light scattering from density fluctuations in the Culham focus — plasma focus 10 p1584 N84-20383
Spectroscopic evaluation of Nd(3+):CAMGAR and H sub o(3+):YLF as 0.94 micrometer lasers
[AD-A137610] 11 p1662 N84-20845
The effect of excitation anisotropy in the laser-induced fluorescence spectroscopy of plasmas
11 p1735 N84-21319
Computer controlled laser optoacoustic spectroscopy for trace gas analysis 13 p1955 N84-22710
Current trends in atomic spectroscopy
[PB84-162957] 13 p1959 N84-22732
Enhanced solar energy collection in porphyrin based photoconversion schemes
[DE84-006882] 14 p2173 N84-24015
Laser diagnostics of materials and chemistry
[DE84-007469] 15 p2339 N84-25043
Laser Doppler spectroscopy of biological objects
17 p2742 N84-27408
Ion photofragment spectroscopy: Structure and dissociation of molecular ions
[AD-A141196] 18 p2811 N84-27846
Laser photoelectron spectroscopy of ions
[DE84-008932] 18 p2812 N84-27852
Infrared absorption spectroscopy with color center lasers
[DE84-008812] 19 p2990 N84-28945
International Conference on Radiationless Transitions
[AD-A141407] 19 p3100 N84-29695
Investigation of laser induced radical reactions using time resolved infrared and coherent anti-Stokes Raman scattering (CARS) spectroscopy
[MPIS-17/1983] 20 p3151 N84-30008
The blue-green spectrum of gaseous Pb2 wave numbers and constants of the FOu+ - XOg+ system
[USIP-84-06] 20 p3151 N84-30009
Detection of NH-2O-radicals by far-infrared laser magnetic resonance spectroscopy
[MPIS-6/1984] 20 p3151 N84-30010
Resonance absorption of narrow-band laser radiation by atmospheric gases 20 p3225 N84-30493
Versatility of laser induced fluorescence line narrowing in chemical analysis
[DE84-012834] 21 p3360 N84-31316
Conceptual basis of resonance ionization spectroscopy
[DE84-011662] 21 p3360 N84-31318
Historical survey of resonance ionization spectroscopy
[DE84-011654] 21 p3361 N84-31319
Laser physics and laser techniques
[AD-A143538] 22 p3601 N84-32809
Development of particle sizing for highly concentrated colloidal dispersions using photon correlation spectroscopy
[BMFT-FB-T-84-117] 23 p3716 N84-33553
Spectroscopy of adsorbates by transient laser calorimetry
[AD-A144473] 24 p3880 N84-34584

LASER STABILITY
Laser journal (selected articles)
[AD-A131686] 03 p0379 N84-12465
Room-temperature thermal optical bistability in thin-film interference filters and dye-filled etalons
14 p2234 N84-24402
Self-defocusing and optical crosstalk in a bistable optical etalon 14 p2234 N84-24403
Intrinsic instabilities in homogeneously broadened lasers 14 p2235 N84-24411
Dye laser traveling wave amplifier
[NASA-CR-175228] 15 p2338 N84-25036
Laser ranging technology for space to space applications. Volume 2: High stability CO2-laser for range rate finder development of critical technologies
[ESA-CR(P)-1677] 17 p2673 N84-27035

LASER TARGET DESIGNATORS
Design and calibration of a CW coherent laser radar
[FOA-C-30345-E1] 15 p2320 N84-24930
Observation of Rayleigh-Taylor-Like structures in a laser-accelerated foil
[AD-A140294] 16 p2556 N84-26399

LASER TARGET INTERACTIONS
Resonance fluorescence of a two-level atom near a metal surface
[AD-A130277] 01 p0141 N84-10928
Y03: Prequalification of surface treatment. Measurement of laser reflecting power — Earth-Moon telemetry
[ESA-TT-791] 03 p0382 N84-12490
Development of an XUV amplifier
06 p0848 N84-15532
X-ray production in long-scale length laser-plasma interaction experiments
[DE84-002472] 07 p1076 N84-18997
Spectroscopic measurements of the Laser-HANE plasma
[AD-A138685] 13 p1995 N84-22947
Introduction to the Laser-HANE experiment and summary of low-pressure interaction results
[AD-A138945] 13 p1996 N84-22952
Magnetic bubble formation produced by an expanding laser plasma
[AD-A139188] 14 p2228 N84-24359
Interaction of high-intensity radiation with matter
[BLL-M-35558-(5828.4)] 17 p2764 N84-27553
Wavelength selection for a ground based free electron laser weapon system
[AD-A141157] 18 p2846 N84-28072
Heating and implosion of spherical targets irradiated by laser 20 p3288 N84-30879
Laser remote sensing measurements of natural target reflectivities 23 p3782 N84-33963
Estimating target temperature in laser experiments in nitrogen at high pressures 24 p3874 N84-34548
Analysis of experiments on X-ray emission from laser-irradiated targets
[DE84-751157] 24 p3909 N84-34761

LASER TARGETS
Stimulated Brillouin backscatter in long scale length plasmas
[DE83-013817] 01 p0150 N84-10984

Inertial effects in laser-driven ablation
[DE83-016941] 03 p0380 N84-12476
Creation of ultra-high-pressure shocks by the collision of laser-accelerated disks: Experiment and theory
[DE83-017366] 03 p0382 N84-12486
A laser-fusion rocket for interplanetary propulsion
[DE84-001238] 04 p0490 N84-13219
Measuring the neutron energy spectrum of laser-fusion targets with CR-39
[DE84-001422] 04 p0539 N84-13543
Laser-plasma interaction at 10.6 microns
[DE84-001038] 04 p0541 N84-13560
Particle velocity measurements in laser irradiated foils using ORVIS
[DE83-016629] 04 p0541 N84-13563
Vortex shedding and laser ablation
[DE84-000301] 04 p0541 N84-13565
Simulations and theoretical implications of KMS transport experiments for 1.05 micron and 0.53 micron laser radiation
[DE84-000824] 04 p0542 N84-13570
Investigation of soft X-ray reflective coatings
[DE84-000510] 04 p0610 N84-14025
Bibliography of Soviet Laser Developments, number 60, July August 1982
[AD-A133932] 05 p0759 N84-14978
Observation of magnetic fields in laser-produced plasma using the Zeeman effect
[DE84-002742] 06 p0921 N84-15989
Inertial fusion research at the University of Rochester: Progress in direct drive
[DE84-003691] 10 p1501 N84-19807
Television system for monitoring target position in laser thermonuclear fusion experiments
13 p1969 N84-22781
A novel X-ray backlighting method for Rayleigh-Taylor instability measurements on ablatively driven targets
[AD-A136644] 13 p1993 N84-22937
The 1982 laser program
[DE84-006476] 14 p2151 N84-23887
High image quality sub 100 picosecond gated framing camera development
[DE84-008326] 19 p3028 N84-29203
Experiments and theory on half-harmonic light and 2-plasmon decay
[DE84-008945] 20 p3193 N84-30276
Measurements of high resolution spectra on the Omega laser at Rochester University
[DE84-012419] 20 p3195 N84-30290
Heating and implosion of spherical targets irradiated by laser 20 p3268 N84-30879
Studies of amplifier module in Delfin Facility for heating thermonuclear plasma 20 p3289 N84-30881
Measurements of spatially resolved high resolution spectra of laser-produced plasmas
[DE84-012418] 20 p3305 N84-30995
Energy characteristics of plasma generated in air near target by radiation from CO2 laser
21 p3488 N84-32103

LASER WEAPONS
Modified QKLOOK program, change 1
[AD-A131507] 01 p0067 N84-10567
Pulsed power bibliography. Volume 2: Annotated bibliography
[AD-A131753] 03 p0379 N84-12468
Pulsed power bibliography. Volume 1: Indices
[AD-A131752] 03 p0379 N84-12469
Reanalysis methods for structures with laser induced damage
[AD-A135874] 09 p1322 N84-18638
A parametric analysis of HELSTAR
[AD-A141143] 18 p2848 N84-28071
Wavelength selection for a ground based free electron laser weapon system
[AD-A141157] 18 p2846 N84-28072
An optically implemented Kalman filter algorithm
[AD-A141126] 19 p3083 N84-29565

LASER WELDING
NT BRAZING
NT FUSION WELDING
NT GAS WELDING
Component temperature versus laser-welding parameters
[DE84-000562] 04 p0541 N84-13559
Development of recuperator manufacturing techniques, phase 2
[AD-A132448] 04 p0544 N84-13581
Thermal modeling of laser welding with a quasi-1-dimensional approach
[DE84-001292] 04 p0544 N84-13585
Porosity decrease in laser welds of stainless steel using plasma control
[DE84-002194] 05 p0688 N84-14521
Influence of a plasma during laser welding
[DE84-004414] 10 p1502 N84-19820
Absolutely uniform illumination of laser fusion pellets
[AD-A136844] 13 p1995 N84-22951
A study of the dependence of microsegregation on critical solidification parameters in rapidly-quenched structures
[AD-A142293] 20 p3153 N84-30019
A users manual for the laser welding code WELD2D
[DE84-011167] 20 p3197 N84-30306
Heat transfer, fluid flow and element vaporization in laser welding
[DE84-011783] 22 p3605 N84-32839
West Europe report: Science and technology
[JPRS-WST-84-030] 22 p3651 N84-33141
Sweden: Optical fiber carries laser power for welding
22 p3651 N84-33144
Certain features of laser welding with penetrating melting 23 p3709 N84-33513
Narrow-seam laser welding of components of low thickness 23 p3709 N84-33514
Fusing capacity of concentrated laser beam
23 p3710 N84-33515
Increasing fusion efficiency in laser welding with dynamic beam focusing 23 p3710 N84-33516
Certain metallurgical properties of laser welding
23 p3710 N84-33517
Effect of surface condition and edge preparation on metal fusion during laser welding
23 p3710 N84-33518
Control of seam formation in welding with a light beam
24 p3869 N84-34523
Effect of protective gas composition on seam formation during laser welding 24 p3870 N84-34524
Features of laser welding of AMg6 alloy
24 p3870 N84-34525

LASER WINDOWS
Windows and mirrors needed for a laser-driven photoneutralizer
[DE83-013582] 03 p0380 N84-12473
Laser window with annular grooves for thermal isolation
[DE84-011114] 21 p3410 N84-31625

LASERS
NT ARGON LASERS
NT ATMOSPHERIC LASERS
NT CARBON DIOXIDE LASERS
NT CARBON MONOXIDE LASERS
NT CHEMICAL LASERS
NT CONTINUOUS WAVE LASERS
NT DF LASERS
NT DYE LASERS
NT EXCIMER LASERS
NT FREE ELECTRON LASERS
NT GALLIUM ARSENIDE LASERS
NT GAS LASERS
NT GASDYNAMIC LASERS
NT GLASS LASERS
NT HCN LASERS
NT HELIUM-NEON LASERS
NT HF LASERS
NT HIGH POWER LASERS
NT INFRARED LASERS
NT INJECTION LASERS
NT IODINE LASERS
NT KRYPTON FLUORIDE LASERS
NT LIQUID LASERS
NT METAL VAPOR LASERS
NT NEODYMIUM LASERS
NT NITROGEN LASERS
NT NOVA LASER SYSTEM
NT OPTICAL RESONATORS
NT PULSED LASERS
NT Q SWITCHED LASERS
NT RARE GAS-HALIDE LASERS
NT RING LASERS
NT RUBY LASERS
NT SEMICONDUCTOR LASERS
NT SHIVA LASER SYSTEM
NT SOLAR-PUMPED LASERS
NT SOLID STATE LASERS
NT TEA LASERS
NT TUNABLE LASERS
NT TWO-WAVELENGTH LASERS
NT ULTRASHORT PULSED LASERS
NT ULTRAVIOLET LASERS
NT WAVEGUIDE LASERS
NT X RAY LASERS
NT XENON CHLORIDE LASERS
NT YAG LASERS
Scanning laser Doppler anemometer and its application in turbulent separated flow
[AD-A130923] 01 p0084 N84-10548
Laser-induced bound states at surfaces: Ion neutralization and adsorption
[AD-A130278] 01 p0086 N84-10562
Velocity interferometry for time-resolved high-velocity measurements
[DE83-013968] 01 p0088 N84-10577
User requirements and a high level design of the hydrographic software/data processing subsystem of an airborne laser hydrography system
[PB83-226569] 01 p0127 N84-10830
Spectroscopic studies of lasing transitions in the diatomic mercury halides
[AD-A131466] 02 p0226 N84-11481
Energy partitioning to product translation in the infrared multiphoton dissociation of diethyl ether
[AD-A131555] 02 p0226 N84-11482
Three-dimensional feature extraction
[AD-A131333] 02 p0294 N84-11926
Laser interaction with metallic surfaces
[AD-A126269] 03 p0378 N84-12464
Large laser system facility design
[DE84-000159] 04 p0540 N84-13553
Analysis of stability and symmetry implications for ICF
[DE84-000640] 04 p0540 N84-13556
On the application of holographic interferometry to axisymmetric air flows 05 p0678 N84-14458
High resolution ultraviolet laser spectroscopy of mercury and helium 06 p0800 N84-15214
Photodetachment neutralizer development. Laser-resonator study. Volume 1: Summary
[DE84-001682] 06 p0851 N84-15547
AlGaAsSb vapor phase epitaxy and laser program
[AD-A133123] 06 p0922 N84-15995
Optimized rotary flux compressors for powering laser flashlamps
[DE84-002794] 07 p1010 N84-16555
Photodegradation of coumarin laser dyes. An unexpected singlet self-quenching mechanism
[AD-A136339] 09 p1321 N84-18628
Laser-induced neutralization and negative-ion formation in surface scattering
[AD-A135907] 09 p1322 N84-18641
Picosecond laser studies of excited state processes
[AD-A136137] 09 p1323 N84-18646
Prospects for single-molecule detection in liquids by laser-induced fluorescence
[DE84-001702] 09 p1324 N84-18647
Directed energy technology working group report IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A137332] 10 p1504 N84-19830
Fluorescence and electron energy loss cross sections in mercuric bromide
[AD-A137153] 11 p1629 N84-20657
Effect of solid particles on the turbulent flow of a round gaseous jet: A mathematical and experimental study
[DE84-005830] 11 p1653 N84-20794
Chemiluminescent/laser diode measurement technique intercomparison and captive air measurement program
[PB84-134485] 11 p1661 N84-20839
Effect of concentrated energy streams on materials: Problems and prospects 12 p1784 N84-21638
Laser screens of ZnSe produced by bridgeman method 12 p1787 N84-21658
Mixing of swirling flows and behavior of wet flows
[AD-A138697] 13 p1989 N84-22915
Method of and apparatus for double-exposure holographic interferometry
[NASA-CASE-MFS-25405-1] 13 p1992 N84-22929
Method and apparatus for coating substrates using a laser
[NASA-CASE-LEW-13526-1] 13 p1995 N84-22944
Pulsed D2-F2 chain-laser damage to coated window and mirror components
[AD-A138911] 13 p1995 N84-22950
Topical Meeting on Optical Bistability
[AD-A138998] 14 p2231 N84-24381
Effect of driving laser fluctuations on optical bistability
14 p2235 N84-24413
Periodic window, period doubling, and chaos in a liquid crystal bistable optical device 14 p2238 N84-24432
Self-pulsing and chaos in inhomogeneously broadened single-mode lasers 14 p2239 N84-24438
The NMR laser: A nonlinear solid state system showing chaos 14 p2239 N84-24440
Optical bistability from the Dicke model
14 p2239 N84-24443
Polarization switching with sodium vapour
14 p2239 N84-24445
Current work on high-grade space gyros at Ferranti in the UK 15 p2266 N84-24609
Restructurable VLSI program
[AD-A139959] 15 p2329 N84-24987
Model calculations for a CO2 mixing laser with screen nozzle
[DFVLR-FB-83-41] 15 p2339 N84-25039

Nonlinear transmission of laser radiation by ZnTe monocrystals at helium temperatures
17 p2636 N84-26863
Temperature and humidity profiles in the atmosphere from spaceborne lasers: A feasibility study
17 p2716 N84-27292
Off-axis coherently pumped laser
[NASA-CASE-GSC-12592-1] 18 p2845 N84-28065
Three wavelength optical alignment of the Nova laser
[DE84-009702] 18 p2847 N84-28079
Acquisition cost analysis for the near term military application of laser versus millimeter wave for satellite crosslink communications
[AD-A141061] 19 p3004 N84-29037
Extended laser sensor
[AD-D011011] 19 p3029 N84-29214
Investigation of sol-gel antireflection coatings
[DE84-008361] 19 p3030 N84-29218
CIG distortion correction with delay lines
[AD-D011025] 19 p3079 N84-29537
Measurement techniques using ultrashort optical pulses
[DE84-009241] 19 p3105 N84-29728
Bibliography of Soviet laser developments, number 64, March -April 1983
[AD-A141906] 20 p3193 N84-30275
USSR report: Physics and mathematics
[JPRS-UPM-84-001] 20 p3285 N84-30862
Dynamics of plasma corona on spherical targets irradiated by laser 20 p3288 N84-30878
Control computer and automation subsystem equipment in Delfin Facility 20 p3289 N84-30880
Development of a multidetector deflection measurement system
[DE84-013580] 21 p3410 N84-31631
USSR report: Physics and mathematics
[JPRS-UPM-84-003] 21 p3477 N84-32043
Improving energy performance and duty time of production process CW electrical ionization CO2 lasers by using five-component lasing mixtures
21 p3481 N84-32065
USSR report: Physics and mathematics
[JPRS-UPM-84-005] 21 p3484 N84-32081
Laser physics and laser techniques
[AD-A143538] 22 p3601 N84-32809
Occupational Medicine Relevant to Aviation Medicine
[AGARD-CP-341] 22 p3631 N84-33011
Evaluation and control of laser hazards
22 p3632 N84-33018
Plasma dynamics 22 p3683 N84-33354
Radiation pressure on atoms: Laser cooling and intense field effects
[AD-A143637] 23 p3754 N84-33793
Three-dimensional photochemical machining with lasers
[AD-A143928] 23 p3754 N84-33798
Laser impulse drilling machine discussed
24 p3891 N84-34641

LASING
Free-electron-laser research
[DE83-016957] 03 p0382 N84-12489
Basic elements of laser radar
[INPE-3123-MD/025] 16 p2497 N84-26021
CO2 gamma 3 fundamental band 4.5 micrometers laser potential
[AD-A142536] 20 p3148 N84-29991
Laser utilizing a gaseous lasing medium and method for operating the same
[DE84-014500] 22 p3602 N84-32819
Visual function and the definition of thresholds for exposure to laser radiation 22 p3632 N84-33019
Millimetre waves: A problem for the future
24 p3915 N84-34790

LASV
U F-111 AIRCRAFT

LATCHES
Self-indexing latch system
[NASA-CASE-MFS-25956-1] 11 p1664 N84-20860
Latching mechanism for deployable-restowable columns
[NASA-CASE-LAR-13169-1] 15 p2343 N84-25063
Spartan Release Engagement Mechanism (REM) stress and fracture analysis
[NASA-CR-173779] 19 p3034 N84-29244
Radial SI latches vibration test data review
[NASA-TM-86454] 21 p3412 N84-31638

LATE STARS
Theory of winds in late-type evolved and pre-main-sequence stars 03 p0468 N84-13085
Measurements of chromospheric densities and geometrical extensions of late-type giant and super-giant stars
[NASA-CR-175236] 07 p1089 N84-17079
Periods of activity cycles in late-type stars
[NASA-TM-77297] 07 p1091 N84-17094
A search for 183-GHz emission from water in late-type stars
[NASA-TM-85967] 23 p3838 N84-34348
Use of high resolution IUE spectra of MG 2 in cool stars to probe the local interstellar medium
24 p3973 N84-35156
Emission lines in the UV spectrum of alpha Tau
24 p3974 N84-35168
IUE observations of BY Draconis
24 p3975 N84-35176
Optical and ultraviolet observations of FK Comae stars 24 p3978 N84-35198

LATENT HEAT OF FUSION
U HEAT OF FUSION

LATERAL CONTROL
Lateral runway approach guidance using Loran-C
02 p0168 N84-11105
Relative-datum Loran navigation
02 p0168 N84-11107
Flying qualities experiments of rate command/attitude hold systems in the HFB 320 in-flight simulator
[DFVLR-FB-83-25] 06 p0792 N84-15163
A helicopter flight investigation of roll-control sensitivity, damping and cross coupling in a low altitude lateral maneuvering task
[NASA-TM-84376] 07 p0959 N84-16216
Magnetic roll/yaw attitude control of a momentum biased near polar orbit satellite
[MBB-UR-629-83-O] 16 p2561 N84-26432
More use of helicopters in construction work urged
24 p3851 N84-34424

LATERAL STABILITY
Lateral-directional stability investigation of the space shuttle orbiter at Mach 6 01 p0022 N84-10137
Application of active and passive suspension techniques to improve high speed ground vehicle performance
[PB83-224576] 01 p0164 N84-11076
A wind tunnel investigation to determine dominant forebody strake design characteristics for an F-15 equipped with conformal fuel tanks
[AD-A136912] 10 p1421 N84-19292

LATERALITY
U LATERAL STABILITY

LATERALIZATION
U LATERAL CONTROL

LATEX
Evaluation of the separability of monodisperse polystyrene latex microspheres in a continuous flow electrophoresis system 06 p0932 N84-16057

LATHES
Desk-top computer controlled instrument lathe for machining with high form accuracy
[FOA-C-30339-E1,E3] 08 p1214 N84-17918
Design of a high-performance slide and drive system for a small precision machining research lathe
[DE84-011059] 22 p3606 N84-32845

LATIN SQUARE METHOD
Measurement of robot accuracy using the Latin Square Three-Dimensional Ball Plate
[DE84-004920] 08 p1206 N84-17862

LATITUDE
Variability of atmospheric density in the middle atmosphere
[AD-A131985] 03 p0407 N84-12667
Analytical model of latitudinal variation of dispersion and spectra of fluctuations of zonally averaged surface temperature 18 p2858 N84-28137
A directory of European, Middle Eastern, and North African coastal ground control points for mapping satellite images
[AD-A142019] 20 p3228 N84-30512
Effects of climate on kininogen levels in healthy human subjects 21 p3452 N84-31907

LATITUDE MEASUREMENT
Geodetic astronomy 10 p1519 N84-19945
Test of a system for positioning: Sensitron
[FOA-C-20519-D6] 15 p2336 N84-25023

LATTICE IMPERFECTIONS
U CRYSTAL DEFECTS

LATTICE PARAMETERS
Different sensitivity of s- and d-electron energy levels to a change in lattice parameters in transition metals
[BLL-M-35116-(5828.4)] 01 p0151 N84-10996
Host-lattice effects in the spin-orbit fine structure of vacancy-trapped electrons
[DE84-000599] 04 p0614 N84-14052
Automatic generation of 3-D envelopes
12 p1872 N84-22197
ESCHER: An interactive mesh-generating editor for preparing finite-element input 12 p1872 N84-22198

LATTICE VIBRATIONS
Clustering of the least squares lattice PARCOR (partial correlation) coefficients: A pattern-recognition approach to steady state synthetic vowell identification
[AD-A131503] 01 p0134 N84-10876
Structure and vibrational spectra of a model of a-Si:H with periodic boundary conditions
[DE83-015245] 03 p0367 N84-12390
Improper ferroelectricity: A theoretical and experimental investigation
[AD-A138401] 12 p1898 N84-22362
Experimental investigation of 4-dimensional superspace crystals
[DE84-009239] 19 p3112 N84-29775

LATTICES
Use of simultaneous autoregressive models in balanced incomplete block and lattice square designs
[AD-A141661] 19 p3086 N84-29590
Strained layer superlattice materials for millimeter wave FET's, phase 1
[DE84-011475] 20 p3308 N84-31007
The least squares lattice algorithm: An alternate derivation with a discussion of numerical conditioning
[AD-A143439] 22 p3645 N84-33114

LATTICES (MATHEMATICS)
NT BOOLEAN ALGEBRA
NT BOOLEAN FUNCTIONS
Lattice gauge theories
[DE83-013114] 06 p0910 N84-15906
Weighted decoding, by lattice, of linear block codes
[ENST-E-83008] 07 p1064 N84-16903
Lattice statistics
[AD-A136588] 09 p1382 N84-19025
An overview of recursive least squares estimation and lattice filters
[AD-A137554] 11 p1713 N84-21166
Hereditary subdirect irreducibility in graphs
[MC-ZW-193/83] 13 p2036 N84-23221
Quasitransitive algebras
[AD-P002343] 14 p2191 N84-24134
Two infinite sequences of near polygons
[MC-ZW-194/83] 14 p2215 N84-24302
Continuous singular probability measures that are almost lattice
[CTH-MATH-1983-26] 17 p2760 N84-27529
Some negative results for avoiding lattice fermionic doubling
[PREPRINT-358] 20 p3297 N84-30938
Radial distribution function as an analysis technique
[DE84-013242] 22 p3665 N84-33235
Weak interactions on the lattice
[TH.3774-CERN] 23 p3819 N84-34219
Weak coupling tests of lattice QCD
[DE84-013440] 23 p3831 N84-34299
On the semilattice of weak orders of a set
[AD-A144631] 24 p3952 N84-35023

LAUNCH DATES
List of recent Soviet space launches
19 p2978 N84-28880
List of recent Soviet space launches
21 p3348 N84-31239

LAUNCH VEHICLE CONFIGURATIONS
Study of analysis methods concerning launch vehicle and spacecraft structural interaction
[ED-80-295] 12 p1778 N84-21605

LAUNCH VEHICLES
NT ARIANE LAUNCH VEHICLE
NT ATLAS CENTAUR LAUNCH VEHICLE
NT CENTAUR LAUNCH VEHICLE
Development of space shuttle ignition overpressure environment and correlation with flight data
01 p0020 N84-10127
Space commercialization
[GPO-26-498] 08 p1107 N84-17194
An iterative guidance method for the large rocket launch vehicle
[AD-A137586] 11 p1624 N84-20629
Vector wind gust model
[NASA-CR-171029] 15 p2371 N84-25222
NASA, the first 25 years: 1958 - 1983
[NASA-EP-182] 16 p2583 N84-26583
National Aeronautics and Space Administration
17 p2772 N84-27604
Three stage rocket vehicle with parallel staging
[NASA-CASE-MFS-25878-1] 18 p2803 N84-27787
A computer model for evaluation of launch vehicle and target tracking error assignments for direct ascent, deep space ASAT (Anti-satellite) systems
[AD-A141136] 20 p3134 N84-29898
Propulsion options for orbit-on-demand
20 p3136 N84-29915
Development and fabrication of a graphite/epoxy motor case for air launch missile applications
20 p3142 N84-29948

LAUNCHERS
NT CATAPULTS
NT GUN LAUNCHERS
NT HYPERVELOCITY LAUNCHERS
NT MISSILE LAUNCHERS
Energy stores and switches for rail-launcher systems
[NASA-CR-173249] 07 p0996 N84-16458

Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-15429-1] 13 p1939 N84-22609
Performance results of a small-calibre electromagnetic launcher
[MRL-R-917] 16 p2483 N84-25924

LAUNCHING
NT AIR LAUNCHING
NT ROCKET LAUNCHING
NT SEA LAUNCHING
NT SPACECRAFT LAUNCHING
Wind tunnel tests on a tube-launched missile configuration with a deflectable nose control and a novel wrap-around fin stabiliser
[AD-A142062] 20 p3134 N84-29900
Airplane take-off system
[AD-D011204] 24 p3856 N84-34449

LAUNCHING BASES
NT CAPE KENNEDY LAUNCH COMPLEX

LAUNCHING DEVICES
U LAUNCHERS

LAUNCHING PADS
Shock absorbing missile launch pad
[AD-D011173] 23 p3698 N84-33436

LAUNCHING SITES
NT LAUNCHING PADS
Seismic hazard study for selected sites in New Mexico and Nevada
[AD-A143392] 22 p3623 N84-32960

LAVA
Volcanic forms in the Kane Patera region, Io 13 p2073 N84-23437
Morphology of buried craters: Lava thickness estimates by simulated flooding 13 p2079 N84-23471
Classification of volcanoes of the Kane Patera Quadrangle of Io: Proportions of lava flows and pyroclastic flows 13 p2080 N84-23477
The 1950 sulfur flow of Mauna Loa: Considerations for Io 13 p2080 N84-23479
Effusion rate, length, and area relationships for some lava flows on Hawaii and Mount Etna with planetary implications 13 p2080 N84-23482
Ridges on basalt flows 13 p2081 N84-23484
Chemical evolution of a high-level magma system: The Black Mountain Volcanic Center, Southern Nevada
[DE84-013321] 20 p3243 N84-30587

LAW (JURISPRUDENCE)
NT AIR LAW
NT INTERNATIONAL LAW
NT LEGAL LIABILITY
NT PENALTIES
NT PUBLIC LAW
NT SPACE LAW
Policy and legal issues involved in the commercialization of space
[GPO-21-495] 01 p0163 N84-11069
Report of the 66th National Conference on Weights and Measures 1983
[PB84-110998] 08 p1141 N84-17425
Summary of research, academic departments, 1982-1983
[AD-A140059] 15 p2416 N84-25507
Relevant and irrelevant legal structures: Distinguishing private sector from DOD contracting
[AD-P003241] 18 p2903 N84-28408
Economic cases of the Civil Aeronautics Board, volume 104, October - November 1983
[PB84-209287] 22 p3533 N84-32370

LAWS
NT CLOSURE LAW
NT CONSERVATION LAWS
NT KEPLER LAWS
NT KIRCHHOFF LAW OF RADIATION
NT NEWTON SECOND LAW
NT SCALING LAWS
NT SNELLS LAW
NT STOKES LAW OF RADIATION
IPACS attitude control technology considerations 03 p0345 N84-12238
National Aeronautics and Space Act of 1958, as amended and related legislation
[GPO-24-491] 03 p0460 N84-13032
Department of Housing and Urban Development-Independent Agencies Appropriation Act, 1985
[S-REPT-98-506] 16 p2568 N84-26478
National Aeronautics and Space Administration: Research and development foi HC 16 p2568 N84-26479
Legislation needed to clarify future of consumer protection and federal preemption after the Civil Aeronautics Board sunsets
[PB84-210103] 22 p3533 N84-32371

LAYERS
Fabrication and properties of multilayer structures
[AD-A131934] 03 p0451 N84-12969
Potential transport errors in single-layer wind fields
[DE84-003446] 11 p1675 N84-20932
Acoustic exploration of ocean floor properties based on the ringing of sediment layer resonances
[AD-A138245] 12 p1899 N84-22367
Leakage currents in degraded multi-layer ceramic capacitors
[AD-A140157] 17 p2662 N84-26985
The transient gravity wave critical layer
[AD-A141095] 19 p3053 N84-29377
On stress analysis of a crack-layer
[NASA-CR-174774] 24 p3912 N84-34774
A note on the eigenvalues of a layered system
[INPE-3263-PRE/594] 24 p3950 N84-35007

LAYOUTS
Restructurable VLSI program
[AD-A131246] 01 p0072 N84-10472
Gate array layout using CADDS 2
[DE83-014840] 01 p0075 N84-10491
Planar embedding of planar graphs
[AD-A132538] 04 p0579 N84-13820
Nonparametric selection procedures for a two-way layout problem
[AD-A135385] 08 p1220 N84-17962
Modeling by means of networks
[IWECO-5177401-83-1] 12 p1804 N84-21761
Printed circuit board layout by microcomputer
[AD-A138427] 12 p1813 N84-21816
Some difficulties developing a large-scale research grade CAD program for a production environment
[DE84-005549] 14 p2142 N84-23845
Computer aided layout of procedure information for training and job aiding
[AD-A139347] 14 p2205 N84-24236
Three-dimensional circuit layouts
[AD-A143430] 22 p3586 N84-32713

LDEF
U LONG DURATION EXPOSURE FACILITY

LEACHING
Effects of acid precipitation and natural processes on cation leaching from 4 diverse forest ecosystems
[DE83-015759] 01 p0103 N84-10671
Coupled-transport membranes for metal separations, phase 5
[PB84-127034] 09 p1286 N84-18396
Assessment of acid rain on leaching of elements from Delaware soils into groundwater
[PB84-120849] 09 p1343 N84-18770
Gel structures in leached alkali silicate glass
[DE84-009928] 18 p2819 N84-27899
Chemical attenuation rates, coefficients, and constants in leachate migration. Volume 1: A critical review
[DE84-009432] 20 p3238 N84-30557
Geochemistry of oil shale leachates and interaction with geologic substrates, Piceance Creek Basin, Colorado 21 p3440 N84-31825
The petrology and geochemistry of the Yerington Batholith and the Ann-Mason Porphyry Copper Deposit, Western Nevada 21 p3441 N84-31828

LEAD (METAL)
Edge-sealed PLZT shutters for operation in high-humidity/temperature environments
[DE83-012627] 01 p0148 N84-10971
Ablation effects in oxygen-lead fragmentation at 2.1 GeV/nucleon
[NASA-TM-85704] 07 p1074 N84-16977
Effect of Rhodamine-B on the electrodeposition of lead on copper
[DE84-005535] 11 p1634 N84-20683
A compilation of mineral occurrences and the relationship of occurrences to structural elements of the Kentucky and Tennessee region
[NASA-CR-175240] 18 p2878 N84-28275
Lead 19 p2992 N84-28959
The blue-green spectrum of gaseous Pb2 wave numbers and constants of the FOu+ - XOg+ system
[USIP-84-06] 20 p3151 N84-30009
Embrittlement of 4340 type steel by liquid lead and antimony and lead-antimony solutions
[AD-A143785] 23 p3718 N84-33567

LEAD ACID BATTERIES
Maintenance-free, deep-discharge, lead-acid battery for photovoltaic applications: Phase two
[DE83-013561] 02 p0214 N84-11401
Assessment of potential for batteries in space applications 03 p0346 N84-12246
Comparative response of lead-acid and nickel-iron batteries to pulsed and constant-current loads
[DE83-017939] 03 p0368 N84-12395
Effect of antimony on lead-acid battery negative electrode
[DE83-014680] 03 p0369 N84-12404
Research, development and demonstration of lead-acid batteries for electric vehicle propulsion
[DE84-000468] 04 p0527 N84-13464
Application features and considerations in advanced lead-acid and nickel/iron EV batteries
[DE83-017936] 04 p0528 N84-13472
Research, development and demonstration of advanced lead-acid batteries for utility load leveling
[DE84-002683] 05 p0676 N84-14444
Maintenance free lead acid battery with high cycle life and a new type of grid
[BMFT-FB-T-83-156] 05 p0677 N84-14453
Battery lifetime prediction by pattern recognition application to lead-acid battery life-cycling test data
[AD-A133281] 06 p0829 N84-15397
Lead-acid battery with improved cycle life and increased efficiency for lead leveling application and electric road vehicles
[BMFT-FB-T-83-225] 10 p1489 N84-19734
A study of the rechargeability of the Red Camel lead-acid battery between +20 deg C and -30 deg C
[AD-A137635] 11 p1646 N84-20764
Testing of sealed lead-acid batteries
[DE84-008209] 14 p2141 N84-23840
Testing and evaluation of EV-1300 lead-acid modules for the hybrid vehicle application
[DE84-006718] 14 p2249 N84-24510
Results of electric-vehicle propulsion system performance on three lead-acid battery systems
[NASA-TM-83657] 15 p2361 N84-25166
Modeling and simulation of lead-acid batteries for photovoltaic systems 17 p2722 N84-27326
Testing, data analysis and engineering services on lead-acid load leveling batteries
[DE84-011523] 20 p3180 N84-30198
Battery test results on Gould GC2-EV200
[DE84-900835] 20 p3181 N84-30208
EValuation of a 96V EV 1000 battery pack at temperature extremes
[PB84-187723] 20 p3182 N84-30217
Evaluation of an 96V ALCO 2200 battery pack at temperature extremes
[PB84-187731] 20 p3182 N84-30219
The design and testing of an electrolyte destratification system applied to a 96 V Alco 2200 battery
[PB84-184894] 20 p3237 N84-30550
Study of bipolar batteries
[DE84-013193] 21 p3394 N84-31540
Test and evaluation of the Philips Model PE 1701 and Lester Model 9865 electric vehicle battery chargers
[DE84-901243] 21 p3394 N84-31541
Analysis of lead-acid battery deep-cycle accelerated testing data
[DE84-013192] 22 p3589 N84-32736
Battery safety procedures for surface-mining equipment
[LC-84-600162] 23 p3741 N84-33713

LEAD ALLOYS
Development of maintenance-free lead batteries
[BMFT-FB-T-83-150] 02 p0216 N84-11419
Acoustic mixing of an immiscible alloy (Pb-Zn) in microgravity 17 p2613 N84-26728
Solidification of Al-Pb alloys under microgravity in Texus-7, preliminary report 17 p2613 N84-26730
Development of integrated digital circuits with Josephson junctions
[BMFT-FB-T-84-044] 19 p3113 N84-29777

LEAD COMPOUNDS
NT LEAD OXIDES
NT LEAD SULFIDES
NT LEAD TELLURIDES
NT LEAD TITANATES
Fabrication of Schottky barrier detectors on thin films of PbSSe
[AD-A134310] 07 p1080 N84-17020
Anomalous pressure dependence of dipolar relaxation times in rare earth doped lead fluoride
[AD-A143201] 22 p3662 N84-33215

LEAD ORGANIC COMPOUNDS
The lead file: Car fuel additives
[INFORM-NOTE-29] 17 p2725 N84-27341

LEAD OXIDES
Spectroscopy and kinetics of lead oxide chemiluminescence
[AD-A138250] 12 p1792 N84-21687
Testing of sealed lead-acid batteries
[DE84-008209] 14 p2141 N84-23840

LEAD SULFIDES
Testing of sealed lead-acid batteries
[DE84-008209] 14 p2141 N84-23840

LEAD TELLURIDES
Photoconductor fabrication for operation in the thermal infrared — lead tin tellurides
[INPE-2835-PRE/384] 02 p0298 N84-11952
Single Pb (1-x)Sn(x) Te crystal growth by vapor phase transport, with formation of a liquid/solid interface
[INPE-2811-PRE/369] 03 p0451 N84-12967

Lead salt diode lasers and development of tunable solid state lasers for remote sensing
[NASA-CR-173783] 19 p3029 N84-29207
Manufacture and characterization of Pb(1-x)Sn(x)Te photoconductors
[INPE-3045-TDL/157] 22 p3662 N84-33212

LEAD TITANATES
Lead zirconate-lead titanate (PZT) ceramics from organic-derived precursors
[DE84-009921] 20 p3164 N84-30095

LEADERSHIP
Toward an interpersonal paradigm for superior-subordinate communication
[AD-A135863] 10 p1551 N84-20166
Cohesion in the US military
[AD-A140628] 17 p2747 N84-27439
Factor stability and construct validation of Yukl's MBS (Managerial Behavior Survey) for military leadership
[AD-P003246] 18 p2904 N84-28413
Subordinate perceptions of contingent leaders: Do followers accept our theories?
[AD-P003248] 18 p2904 N84-28415
To the wilderness and beyond: The application of a model for transformal change
[AD-P003249] 18 p2904 N84-28416
The role of relevant experience and intellectual ability in determining the performance of military leaders: A contingency model explanation
[AD-P003303] 18 p2909 N84-28448
Leadership, managership, and computers in today's Air Force
[AD-P003351] 18 p2912 N84-28468
Research integration: An essential for Department of Defense psychological research
[AD-P003366] 18 p2913 N84-28479
US Army Research Institute 1983 report
[AD-A141821] 19 p3115 N84-29790
A model of inter-organizational influences on organizational processes
[AD-A142450] 20 p3313 N84-31037
Determination of factors affecting performance and productivity in an engineering/design environment
[AD-A143315] 22 p3689 N84-33252

LEADING EDGE FLAPS
VORCAM: A computer program for calculating vortex lift effect of cambered wings by the suction analogy
[NASA-CR-165800] 23 p3690 N84-33387

LEADING EDGE SWEEP
On the generation and subsequent development of spiral vortex flow over a swept-back wing
03 p0322 N84-12105
A flight test of laminar flow control leading-edge systems
[NASA-TM-85712] 05 p0625 N84-14110
Wind tunnel investigations of glider fuselages with different waistings and wing arrangements
06 p0781 N84-15116
Transition description and prediction in three-dimensional flows 23 p3748 N84-33761

LEADING EDGES
NT SHARP LEADING EDGES
Space shuttle orbiter leading-edge flight performance compared to design goals 01 p0025 N84-10161
Space shuttle wing leading edge heating environment prediction derived from development flight data
01 p0025 N84-10162
A steady-state thermal model for analysis of incipient icing on an air foil leading edge
[AD-A131207] 02 p0175 N84-11150
Geometries for roughness shapes in laminar flow
[NASA-CASE-LAR-13255-1] 03 p0320 N84-12092
Recent studies at NASA-Langley of vortical flows interacting with neighboring surfaces
03 p0322 N84-12109
Experimental investigation of forebody and wing leading-edge vortex interactions at high angles of attack
03 p0322 N84-12110
Computational vortex flow aerodynamics
03 p0324 N84-12117
Boundary layer segmentation on sharp highly swept leading edges and its effects on secondary vortices
03 p0326 N84-12132
Augmentation of fighter-aircraft performance by spanwise blowing over the wing leading edge
03 p0326 N84-12133
Quasi-steady solar wind dynamics
03 p0474 N84-13120
The response of a laminar boundary layer to sound and wall vibration
[AD-A132843] 05 p0681 N84-14474
Potential flow analysis of glaze ice accretions on an airfoil
[NASA-CR-168282] 07 p0947 N84-16146
Calculating C-grids with fine and embedded mesh regions
[CFDL-TR-83-7] 08 p1238 N84-18090
An analytical design procedure for the determination of effective leading edge extensions on thick delta wings
[NASA-CR-172351] 10 p1419 N84-19284
An experimental investigation of the aerodynamic effects of forward facing wedges on the upper surface and leading edge of an aerofoil, with emphasis on high angles of attack
[ARL-AERO-TECH-MEMO-356]
11 p1599 N84-20477
A method for computing the leading-edge suction in a higher-order panel method
[NASA-CR-3730] 11 p1600 N84-20479
Advanced leading edge thermal-structure concept. Direct bond reusable surface insulation to a composite structure
[NASA-TM-85941] 14 p2113 N84-23685
The study of an idealized wing/body junction
[AD-A139933] 15 p2257 N84-24559
Conical flows with leading edge vortices
15 p2333 N84-25013
An experimental investigation of the aerodynamic effects of forward facing wedges on the upper surface and leading edge of an aerofoil, with emphasis at high angles of attack
[AD-A142053] 19 p2959 N84-28755
Stator blade row geometry modification influence on two-stage, axial-flow compressor aerodynamic performance
[AD-A141793] 19 p2966 N84-28797
A possibility of avoiding surface roughness due to insects
[NASA-TM-77419] 23 p3690 N84-33384

LEAKAGE
Space shuttle orbiter venting: Lessons learned
01 p0020 N84-10126
Helium/solid powder o-ring leakage correlation experiments
[DE83-013773] 01 p0090 N84-10588
Performance of a new 916 MHz direct contact applicator with reduced leakage, a detailed analysis
[PB83-226621] 01 p0114 N84-10742
A ground test measurement system for the shuttle entry air data system
[NASA-TM-85707] 02 p0184 N84-11193
Simplified methods for the inelastic analysis of stiffened shells
[DE83-016518] 02 p0232 N84-11525
Leak testing and repair of fusion devices
[DE83-014942] 02 p0296 N84-11944
In-situ permeation tests of elastomeric O-ring seals
[DE83-015622] 03 p0356 N84-12318
The SSME seal test program: Leakage tests for helically-grooved seals
[NASA-CR-170921] 03 p0383 N84-12495
Transmission of fast neutrons from the Li(d,xn) reaction through thick iron
[DE83-015975] 03 p0439 N84-12884
Solvability of the leakage problem for the hydrodynamic Euler equations in Sobolev spaces
07 p1000 N84-16485
The Shock and Vibration Digest, volume 15, no. 9
[AD-A134750] 08 p1168 N84-17609
Leakage flow-induced vibrations of reactor components 08 p1168 N84-17611
Helium leak detector improved sensitivity speed choke
[DE84-005160] 10 p1498 N84-19793
Fuel system O-ring leaks on post P.D.M. (Programmed Depot Maintenance) C-5A aircraft
[AD-A137885] 11 p1606 N84-20519
SSME interstage seal research
[NASA-CR-170995] 11 p1624 N84-20631
Design and characteristics of radiating pair cable
11 p1720 N84-21217
Testability of VLSI (Very Large Scale Integration) leakage faults in CMOS (Complementary Metal Oxide Semiconductor)
[AD-A138978] 13 p2047 N84-23281
Aircraft accident report. Eastern Air Lines, Incorporated, Lockheed L-1011, N334EA, Miami International Airport, Miami, Florida, May 5, 1983
[NTSB-AAR-84-04] 14 p2103 N84-23613
Helium-neon lasers for remote measurements of natural gas leaks 15 p2430 N84-25595
Leakage currents in degraded multi-layer ceramic capacitors
[AD-A140157] 17 p2662 N84-26985
Improved gaseous leak detector
[DE84-011295] 20 p3190 N84-30265
Vapor spill pipe monitor
[DE84-011103] 20 p3190 N84-30267
Measurement techniques for high-power semiconductor materials and devices
[DE84-010425] 20 p3309 N84-31016
Altering the volumetric expansion ratio of a Lysholm helical screw expander
[DE84-013695] 22 p3564 N84-32573
Empirical modeling of a Lysholm helical screw expander
[DE84-013694] 22 p3564 N84-32574
Detection of damage in hydraulic components by acoustic emission techniques
[AD-A143262] 22 p3607 N84-32850
Existence and equivalence of solutions of mixed problems for Euler's hydrodynamic equations
[ISSN-0208-5658] 23 p3745 N84-33738
Leak detector for spacecraft testing with high accuracy 24 p3863 N84-34486
Improving the design of multilayer pipes
24 p3876 N84-34584
A comparison of experimental and theoretical results for leakage, pressure distribution, and rotordynamic coefficients for annular gas seals
[NASA-CR-174000] 24 p3910 N84-34785

LEAR JET AIRCRAFT
Determination of elevator and rudder hinge forces on the Learjet model 55 aircraft 06 p0860 N84-15604

LEARNING
NT CONDITIONING (LEARNING)
NT TRANSFER OF TRAINING
Learning to program in LISP
[AD-A132611] 05 p0728 N84-14781
Untutored concept learning
[AD-A133766] 05 p0732 N84-14808
Neuronal adaptive mechanisms underlying intelligent information processing
[AD-A133694] 06 p0889 N84-15776
A guideline for the planning and system requirement determination of a computer based educational system
[AD-A133529] 06 p0896 N84-15829
Proceedings of the Conference on Joint Problem Solving and Microcomputers
[AD-A135001] 08 p1211 N84-17901
Performance feedback effects under varying conditions of goals, feedback type, and choice
[AD-A136703] 10 p1550 N84-20157
Learning in a probabilistic environment: A new approach, and some preliminary findings
[AD-A137031] 10 p1551 N84-20162
Memory organization-based methods of instruction: A comparison with performance-oriented training
[AD-A137640] 11 p1701 N84-21098
Computer-managed instruction: Individual differences in student performance
[AD-A139708] 15 p2382 N84-25286
An expert distributed robotics system with comprehension and learning abilities in the aircraft flight domain
[AD-A139626] 15 p2384 N84-25300
Development of a model for human operator learning in continuous estimation and control tasks
[AD-A140320] 16 p2538 N84-26294
Simulation experiments with goal-seeking adaptive elements
[AD-A140295] 16 p2548 N84-26343
Individualizing with Computer-Assisted Instruction (CAI): Enhancing student motivation through computer-controlled audio
[AD-P003314] 18 p2909 N84-28453
Individual differences in learning rate
[AD-P003338] 18 p2911 N84-28462
Assessment of learning abilities using rate measures
[AD-P003340] 18 p2911 N84-28463
Symbolic knowledge processing for the acquisition of expert behavior: A study in medicine
[AD-A141835] 19 p3068 N84-29460
Learning the Ada (trademark) integrated environment
[AD-P003417] 20 p3270 N84-30749
An exploratory analysis of the relationship between media richness and managerial information processing
[AD-A143503] 22 p3674 N84-33293

LEARNING CURVES
A general framework for learning curve reliability growth models
[AD-A132277] 04 p0546 N84-13596

LEARNING MACHINES
Machine learning. Part 1: A historical and methodological analysis
[AD-A131424] 02 p0278 N84-11824
Towards a general scientific reasoning engine
[AD-A141263] 18 p2924 N84-28543
A machine learning approach to student modeling
[AD-A141704] 19 p3080 N84-29547

LEARNING THEORY
Machine learning. Part 1: A historical and methodological analysis
[AD-A131424] 02 p0278 N84-11824
A learning approach to routing in data communication networks
[REPT-8212] 06 p0899 N84-15834
Learning in a probabilistic environment: A new approach, and some preliminary findings
[AD-A137031] 10 p1551 N84-20162

Research on interactive acquisition and use of knowledge
[AD-A137436] 10 p1566 N84-20270
Successful use of microcomputers in classroom instruction
[RAND/P-6853] 12 p1876 N84-22229
The dual meaning of the term context: Implications for research, theory and applications
[AD-P003365] 18 p2913 N84-28478

LEAST SQUARES METHOD
The CEMS (Comprehensive Engine Management System) IV OAP (Oil Analysis Program) algorithm
[AD-A131055] 01 p0011 N84-10072
Constrained nonlinear least squares
[AD-A130502] 01 p0132 N84-10862
Clustering of the least squares lattice PARCOR (partial correlation) coefficients: A pattern-recognition approach to steady state synthetic vowell identification
[AD-A131503] 01 p0134 N84-10876
New program for the least-squares calculation of atomic energy levels
[DE83-014076] 01 p0143 N84-10941
Evaluation of controlling low altitude aerial photography using high altitude aerotriangulation
02 p0234 N84-11539
Research in numerical linear algebra and numerical methods for large-scale least squares and other problems
[AD-A131400] 02 p0260 N84-11838
A new algorithm for constrained nonlinear least-squares problems, part 1
[NASA-CR-174480] 02 p0263 N84-11855
Nonparametric estimation by the method of sieves
[AD-A131394] 02 p0264 N84-11863
Quantitative determination of the intensities of known components in spectra obtained from surface analytical techniques
[DE84-000926] 04 p0493 N84-13239
Relationships between strength, electrical conductivity, and density for oxidized PGX graphite
[DE83-016184] 04 p0507 N84-13325
Cascaded adaptive arrays 05 p0671 N84-14415
Measures of nonlinearity for segmented regression models
[AD-A132838] 05 p0740 N84-14864
Least square approximation by linear combinations of multipoles
[AD-A134069] 05 p0741 N84-14867
Least squares and domain decomposition methods applied to the numerical solution of nonlinear problems in fluid dynamics 06 p0839 N84-15468
Sparse Matrix Software Catalog
[AD-A133559] 06 p0898 N84-15830
Geometric methods for linear prediction — signal processing
[FUB-54-1982] 06 p0903 N84-15859
Least-square iterative techniques for solving integral equations
[PB83-166751] 06 p0903 N84-15864
Least squares methods of analyzing spectroscopic data
[NASA-CR-173241] 07 p1059 N84-16858
Least squares methods of analyzing spectroscopic data
[NASA-CR-175335] 07 p1061 N84-16877
Robust estimation with censored and grouped data: An application of the EM algorithm
[MATHS-RES-174] 07 p1067 N84-16927
Effects of nominal and crack-tip strain rate on IGSCC susceptibility in CERT tests
[DE84-004006] 08 p1135 N84-17378
The performance of an LMS (Least Mean Square) adaptive array with frequency hopped signals
[AD-A136461] 09 p1298 N84-18489
Volterra transfer functions from pulse tests for mildly nonlinear channels
[AD-A135703] 09 p1308 N84-18553
Polyreference software
[NASA-CR-170981] 09 p1366 N84-18918
A multivariable regression algorithm
[AD-A136630] 09 p1382 N84-19026
An automatic fitting procedure for comparing observed and computed spectral distributions — stellar spectra
09 p1408 N84-19200
Phase dispersion minimization methods for estimation of periods from unequally spaced sequences of data — astrophysical data 09 p1408 N84-19202
Estimation: Comments on least squares and other topics 09 p1411 N84-19227
Infrared monitoring of gyrotron windows
[DE84-004442] 10 p1499 N84-19799
Linearization based on least squares approximation with application to finite dimensional system equations
[VTH-LR-364] 10 p1572 N84-20302
Numerical study of Kelvin-Helmholtz instability by the point vortex method
[DE84-006613] 11 p1654 N84-20797
An overview of recursive least squares estimation and lattice filters
[AD-A137554] 11 p1713 N84-21166
Location errors in time-of-arrival types of systems with augmenting equations
[DE84-006250] 11 p1717 N84-21198
Applications of multivariate statistical techniques for computer performance evaluation
[AD-A138268] 12 p1894 N84-22336
Bayes least squares linear regression is asymptotically full Bayes: Estimation of spectral densities
[AD-A138351] 12 p1897 N84-22352
Nonlinear least-squares fitting of first-order rate coefficients comparison between the Gauss-Seidel method and Swain's kore program
[AD-A139060] 13 p2029 N84-23157
A comparison of several alternatives to maximum likelihood for the Weibull distribution
[AD-A138721] 13 p2036 N84-23208
Non-linear multidimensional models, least squares and reduced residuals
[AD-P002950] 14 p2196 N84-24190
Least squares approximations to compressible flow problems
[AD-P002961] 14 p2200 N84-24201
A parallel QR method using fast Givens' rotations
[AD-A139184] 14 p2212 N84-24261
A robust pseudo-inverse spectral filter applied to the Earth Radiation Budget Experiment (ERBE) scanning channels
[NASA-TM-85781] 15 p2370 N84-25219
Nonlinear least squares regression using STAR-PAC: The standards time series and regression package
[PB84-166214] 15 p2394 N84-25365
Seminar on mathematical models of geodetic/photogrammetric point determination with regard to outliers and systematic errors
[SER-A-98] 16 p2504 N84-26069
Robust statistical methods 16 p2504 N84-26071
The Danish method: Experience and philosophy
16 p2505 N84-26078
Area estimation using multiyear designs and partial crop identification
[E84-10151] 16 p2509 N84-26099
Parallel scaled givens rotations for the solution of linear least squares problems
[AD-A140778] 17 p2758 N84-27512
Precipitation and precipitation efficiencies derived from single Doppler radar 18 p2887 N84-28321
Least squares parameter estimation algorithms for nonlinear systems
[RR-225] 18 p2923 N84-28536
Determination of elemental intensities from direct Auger spectra by pre-filtered least squares fitting
[AERE-R-11226] 18 p2927 N84-28561
Registration of a LANDSAT image to DTM (Digital Terrain Matrix): An error analysis
[AD-A141766] 19 p3041 N84-29297
Program PREGA pivotal regression analysis of gamma-ray spectra from NaI(T1) detectors for the ND6820 computer
[AD-A141539] 19 p3077 N84-29520
A modified least squares formulation for a system of first order equations
[NASA-CR-172372] 19 p3082 N84-29557
Analysis linking the tensor structure to the least-squares method
[AD-A142159] 19 p3089 N84-29611
Jackknife and bootstrap inference in regression and a class of representations for the LSE
[AD-A141505] 19 p3093 N84-29641
HEART OF GOLD: Computer routines for large sparse, least squares computations
[PB84-196492] 21 p3467 N84-31987
The least squares lattice algorithm: An alternate derivation with a discussion of numerical conditioning
[AD-A143439] 22 p3645 N84-33114
Bounded-influence inference in regression
[AD-A143195] 22 p3648 N84-33126
Rational-spline approximation with automatic tension adjustment
[NASA-TP-2366] 23 p3817 N84-34204

LEAVES
Photosynthesis in intact plants
[DE83-016045] 02 p0264 N84-11740
The role of gravity in leaf blade curvatures
09 p1357 N84-18865
Reflectance measurements of cotton leaf senescence altered by mepiquat chloride
[E84-10089] 10 p1521 N84-19960
Bidirectional reflectance modeling of non-homogeneous plant canopies 12 p1830 N84-21932
Measurement and modeling of the optical scattering properties of crop canopies 12 p1831 N84-21934
A study of the relation between crop growth and spectra reflectance parameters 12 p1831 N84-21936
Bidirectional spectral reflectance of Earth resources: Influence of scene complexity and atmospheric effects on remote sensing 12 p1833 N84-21946
Costs of measuring leaf area index of corn
[E84-10162] 17 p2710 N84-27254
Spectral characterization of biophysical characteristics in a boreal forest: Relationship between Thematic Mapper band reflectance and leaf area index for Aspen
23 p3766 N84-33875

LEBESGUE THEOREM
Poisson integrals of absolutely continuous and other measures
[CTH-MATH-1983-10] 13 p2036 N84-23210

LED (DIODES)
U LIGHT EMITTING DIODES

LEG (ANATOMY)
Dynamics of rheographic parameters of cerebral circulation and circulation in the extremities during active orthostatic test 02 p0260 N84-11700
The effect of aerobic capacity on VO2 max values measured during leg ergometry and combined arm and leg ergometry 10 p1548 N84-20149
Development of limb volume measuring system
[NASA-CR-171789] 16 p2495 N84-26008

LEGAL LIABILITY
Trade agreements on know-how discussed
01 p0054 N84-10349
International space organizations
09 p1265 N84-18261
Nailing down the liability issue once and for all
[AD-P002777] 13 p2054 N84-23324
Contractor fraud: Government response
[AD-P002833] 13 p2063 N84-23378
Reactions to community noise
19 p3070 N84-29476

LEGENDRE CODE
U COMPUTER PROGRAMMING
U NEUTRON SCATTERING

LEGENDRE FUNCTIONS
Spectral methods for partial differential equations
[NASA-CR-172248] 02 p0260 N84-11832
A method for solving Boltzmann's equation in semiconductors by expansion in Legendre polynomials
[EUT-83-E-134] 10 p1590 N84-20420
Calculation of Legendre functions on the cut for integral order and complex degree by means of Gauss continued fractions
[AD-A139630] 17 p2758 N84-27506
Legendre-tau approximation for functional differential equations. Part 2: The linear quadratic optimal control problem
[NASA-CR-172397] 20 p3280 N84-30618

LEGENDRE POLYNOMIALS
U LEGENDRE FUNCTIONS

LEGENDRE TRANSFORMATION
U LEGENDRE FUNCTIONS

LEGIBILITY
Users manual for NCS (National Communications System) facsimile test document tapes. Addendum
[AD-A133830] 05 p0684 N84-14498

LEGUMINOUS PLANTS
Interactions of light and gravity on growth, orientation, and lignin biosynthesis in mung beans
09 p1359 N84-18879

LEMMAS
U THEOREMS

LENGTH
Oscillatory length dependent conductivity in periodic and almost periodic crystals
[DE84-004364] 11 p1745 N84-21384
Optmization of breakwater lengths in relation to wave penetration
[PUBL-312] 15 p2360 N84-25160
Research and development of long heat pipes and their applications — heating road surfaces on bridges
20 p3170 N84-30126
Length distribution of chords through a rectangular volume
[AD-A143302] 22 p3577 N84-32654

LENNARD-JONES GAS
Transport algorithms for methane flames
[AD-A133213] 06 p0801 N84-15221

LENS ANTENNAS
Computer model for a circular symmetric cavity with application for lens antennas
[FOA-C-30332-E] 02 p0211 N84-11380
Correcting feed displacements in a space fed lens antenna
[AD-A137702] 11 p1643 N84-20743
Study and design of a cylindrical lens array antenna for wideband electronic scanning
[AD-A138808] 13 p1983 N84-22875

Three dimensional, orthogonal delay line bootlace lens antenna
[AD-D011020] 19 p3018 N84-29131
Moebius r-2R lens
[AD-P003511] 21 p3385 N84-31479
Feed error effects on lens performance
[AD-P003513] 21 p3385 N84-31481
Feed displacement correction in a space fed lens antenna
[AD-D011155] 23 p3742 N84-33722

LENS DESIGN
Edge-sealed PLZT shutters for operation in high-humidity/temperature environments
[DE83-012627] 01 p0148 N84-10971
Polymeric web lens evaluation
[DE84-010108] 19 p3000 N84-29013

LENSES
NT CONTACT LENSES
NT FRESNEL LENSES
Performance analysis of a three-dimensional microwave lens in a cylindrical array scanning application
[AD-A131891] 03 p0360 N84-12345
Realization of first order optical systems using thin lenses
[DE84-002848] 05 p0747 N84-14909
Fabrication and evaluation of chirped grating lenses in lithium niobate waveguides
[AD-A137103] 10 p1579 N84-20345
Preparation and properties of polyurethane and polyurethaneurea elastomers from methylene bis(4-cyclohexylisocyanate)
[AD-A137645] 11 p1637 N84-20704
Optical engineering at Los Alamos: A history
[DE83-009905] 12 p1908 N84-22431
Fisheye objective in the dose range photogrammetry: Theoretical and practical investigations
[SER-C-286] 16 p2505 N84-26080
Moebius r-2R lens
[AD-P003511] 21 p3385 N84-31479
Feed error effects on lens performance
[AD-P003513] 21 p3385 N84-31481
An anisotropic lens for launching TEM waves on a conducting circular conical system
[AD-A144140] 24 p3893 N84-34656
Minigrant program. A differential geometric approach to electromagnetic lens design
[AD-A144239] 24 p3950 N84-35013

LEPTONS
NT ANTINEUTRINOS
NT CONDUCTION ELECTRONS
NT ELECTRONS
NT MUONS
NT NEUTRINOS
NT POSITRONS
NT SOLAR NEUTRINOS
W decay in supergravity GUTS
[DE83-015144] 02 p0291 N84-11911
Double beta decay: Recent developments and projections
[DE84-000476] 04 p0598 N84-13944
Cross section estimates for multi-TeV physics
06 p0911 N84-15914
TOF for heavy stable particle identification
06 p0913 N84-15936

LESIONS
Detection of latent atherosclerotic stenosing lesions to great vessels of the head in flight personnel
07 p1046 N84-16787
The response of rats to cutaneous dosing with trichothecene mycotoxins
[MRL-R-902] 08 p1197 N84-17803
The effect of lesions in the preoptic-anterior hypothalamus on the reflexive responses of rats to cold stress
[AD-A144020] 23 p3805 N84-34126

LETHALITY
Acute intramuscular toxicity (LD50) of 1,1'-trimethylenebis (4-(hydroxyiminomethyl) pyridinium bromide) monohydrate, (TMB-4) in male mice
[AD-A133148] 06 p0886 N84-15758
Lethal, potentially lethal lesion model
[DE84-001325] 06 p0886 N84-15762
Roles of ionizing radiation in cell transformation
[DE84-013397] 22 p3629 N84-32995
Modeling of lethal electric shock
22 p3629 N84-33000

LETTERS (SYMBOLS)
U SYMBOLS

LEUKOCYTES
NT LYMPHOCYTES
Microwaves, hyperthermia, and human leukocyte function
[PB83-225375] 01 p0115 N84-10746
Microwaves and human leukocyte function: Exposure of human mononuclear leukocytes to microwave energy pulse-modulated at 16 Hz or at 60 Hz
[AD-A141071] 19 p3065 N84-29443
Dependence of blood coagulating and fibrinolytic systems on functional state of lysosomal system of neutrophil leukocytes during exposure of the body to low barometric pressure 20 p3255 N84-30661

LEVEL (QUANTITY)
NT ATOMIC ENERGY LEVELS
NT EFFECTIVE PERCEIVED NOISE LEVELS
NT ELECTRON STATES
NT ENERGY LEVELS
NT GROUND STATE
NT INTERMOLECULAR FORCES
NT MOLECULAR ENERGY LEVELS
Statistics of instantaneous rainfall rates
[AD-A130089] 01 p0107 N84-10695
Estimating oceanic rainfall using microwave and GOES infrared satellite data
[PB83-253013] 05 p0709 N84-14648
Simultaneous observation of snowfall intensity and visibility in winter at Sapporo 15 p2354 N84-25125

LEVELING
Precise leveling — geodetic surveys
10 p1519 N84-19044
Testing, data analysis and engineering services on lead-acid load leveling batteries
[DE84-011523] 20 p3180 N84-30196

LEVERS
Fiber optic lever towed array
[AD-D011047] 19 p3105 N84-29727

LEVITATION
NT ACOUSTIC LEVITATION
Containerless electromagnetic levitation melting of Cu-Fe and Ag-Ni alloys
[NASA-TM-82553] 03 p0352 N84-12288
Laminarization effects on the dynamics of a disk levitated by incompressible fluid flow
[DE84-003612] 10 p1494 N84-19770
Neoclassical current studies in high beta plasmas
[DE84-005052] 12 p1910 N84-22445

LEVITATION MELTING
The evaporation of iron and its alloying elements, copper and manganese, under reduced pressure using the levitation melting technique
[BLL-OA-TRANS-3117-(6196.3)]
09 p1281 N84-18367
Electromagnetic levitation coil fabrication technique for MSFC containerless processing facilities
[NASA-TM-82565] 09 p1306 N84-18535
Containerless high temperature property measurements by atomic fluorescence
[NASA-CR-171036] 15 p2412 N84-25481

LEWIS NUMBERS
A review of theories currently being used to model steady plane flames on flame-holders
[CA-8316] 06 p0800 N84-15218

LEXAN (TRADEMARK)
The effect of injection molding processing parameters on the environmental stress cracking resistance of polycarbonate moldings
[MRL-R-924] 20 p3201 N84-30332

LIABILITIES
NT LEGAL LIABILITY

LIAPUNOV FUNCTIONS
Generalized inverses of matrices and its applications
[AD-A138274] 12 p1894 N84-22337
Numeric extension of periodic solutions to Lagrangian system with two degrees of freedom
19 p2972 N84-28843
On the scattering of electromagnetic waves by perfectly conducting bodies moving in vacuum. Part 6: Manifolds in Euclidean spaces, regularity properties of domains
[AD-A141748] 19 p3006 N84-29053
Dynamic changes of phase in a van der Waals fluid
[AD-A141708] 19 p3024 N84-29178
Comparison of the Liapunov Method and the method of total disparities using the example of selected differential equations
[ISSN-0208-5658] 19 p3081 N84-29553
Stability and capture of asteroids
19 p3118 N84-29811
Lyapunov stability conditions for a relativistic multifluid plasma
[DE84-010004] 20 p3303 N84-30973

LIBRARIES
The Total Library System (TLS). Volume 1: What it can do for you
[AD-A130336] 01 p0161 N84-11058
Guidelines for the design of large modular scientific libraries in Ada
[NPL-DITC-28/83] 03 p0420 N84-12740
Environments and search paths for the software tools
[DE83-016607] 03 p0420 N84-12749
Perkin-Elmer, Perkin-Elmer 3230 COBOL R07 (pre-release)
[PB83-238600] 03 p0423 N84-12766
NBS (National Bureau of Standards) Workshop: Environmental Control for Archival Records Storage
[PB83-242230] 03 p0460 N84-13026
Permuted medical subject headings, 1984
[PB83-234781] 03 p0460 N84-13027
Medical subject headings, tree structures, 1984
[PB83-223164] 03 p0460 N84-13028
Fiber composite materials research in the UK: Assessment report
[AD-A132386] 04 p0492 N84-13226
Computer software summaries, numbers 424 through 693
[DE83-015297] 04 p0581 N84-13834
The project library PLUS: A general overview
05 p0724 N84-14751
Effective use of earthquake data
[AD-A134077] 06 p0878 N84-15712
The perceptual component of relationships in library networks 06 p0934 N84-16070
Local automation model: Functional description
[AD-A133389] 06 p0935 N84-16077
Meteorological applications library (CRH.LB)
[PB84-122639] 08 p1193 N84-17776
The standardization of bibliographic data
11 p1751 N84-21432
The application of management techniques to defence and other information services: The British approach
11 p1751 N84-21433
Image acquisition and manipulation system
[AD-A138927] 13 p2028 N84-23153
SIRIUS: Bibliographic search and retrieval system
[INPE-2771-PRE/344] 15 p2417 N84-25512
Research library goes online: The use of DOBIS/LIBIS at the Sandia Technical Library
[DE84-010265] 18 p2945 N84-28676
The impact of a computerized network on the quality of work life in two college of advanced education libraries in New South Wales 19 p3115 N84-29792
Local automation model: System specification
[AD-A141503] 19 p3116 N84-29796
SLATEC mathematical subprogram library, version 2.0
[DE84-010750] 20 p3274 N84-30782
RFQ simulation code
[DE84-011385] 21 p3387 N84-31499
The relationship between administrative style and the use of computer-based systems: An attitudinal study of academic library professionals 21 p3517 N84-32276
EPA (Environmental Protection Agency) journal holdings report, 1983
[PB84-194877] 21 p3520 N84-32304
The role of the state library agency in the future: A Delphi study 22 p3669 N84-33258
Predictions of satisfaction with automated library circulation systems 22 p3670 N84-33259
A study of the extent of automation in small college libraries and relationships of attitudes of library directors toward it 22 p3670 N84-33260
Goals and activities of the National Commission on Libraries and Information Science
[ISSN-0091-2972] 22 p3673 N84-33282
A decade of accomplishment
[ISSN-0091-2972] 22 p3673 N84-33283
Research and development support for the Center for Seismic Studies
[AD-A144442] 24 p3920 N84-34813

LIBRATION
Three-dimensional, periodic halo orbits in the restricted three-body problem 06 p0793 N84-15167
Periodic orbits and libration in the Mimas-Tethys case
19 p3121 N84-29839

LIBRATIONAL MOTION
Periodic orbits and libration in the Mimas-Tethys case
19 p3121 N84-29839

LICENSING
Licensing computer software: Basic considerations as to protection and licensing of computer software and its implications for developing countries
[PB84-150689] 12 p1886 N84-22295

LICHENS
Effects of weathering and lichen cover on the middle infrared spectra of rocks
[AD-A140228] 16 p2510 N84-26111

LIDAR
U OPTICAL RADAR

LIE GROUPS
Local recognition of Tits' geometries of classical type
[MC-ZW-197/83] 07 p1065 N84-16910
Computation of some parameters of Lie geometries
[MC-ZW-198/83] 07 p1065 N84-16911
Lie algebraic methods for particle tracking calculations
[DE84-004310] 11 p1716 N84-21196

The Fourier Plancherel transform of the analytic Lie group. 1: Weyl algebras and differential operators
13 p2032 N84-23176
Analysis of the Von Karman equations by group methods
[AD-P002948] 14 p2198 N84-24188
Supersymmetry in physics: An algebraic overview
[DE84-007289] 15 p2399 N84-25395
Numerical integration with Lie-series
19 p3118 N84-29814
The Fourier Plancherel transform for Lie groups. 2: Nilpotent groups 22 p3634 N84-33026
Non-degenerescence of some spectral sequences
22 p3634 N84-33027
An extension of deLeeuw's theorem to the N-dimensional rotation group 22 p3636 N84-33046

LIENARD POTENTIAL
Application of the Lienard-Wiechert solution to a lightning return stroke model
[NASA-TM-85062] 02 p0253 N84-11658

LIFE (BIOLOGY)
U LIFE SCIENCES

LIFE (DURABILITY)
NT FATIGUE LIFE
NT HALF LIFE
NT PLASMA LIFETIME
NT SATELLITE LIFETIME
NT SERVICE LIFE
NT STORAGE STABILITY
Life considerations of the shuttle orbiter densified-tile thermal protection system 01 p0025 N84-10159
Effects of bonding temperatures on fatigue crack growth
[AD-A130396] 01 p0094 N84-10615
Characterization of borosilicate glass containing Savannah River Plant radioactive waste. 2: Microstructure and durability
[DE83-011246] 02 p0292 N84-11916
Life prediction under stress corrosion conditions below K sub ISCC
[DE83-018074] 03 p0355 N84-12307
Glass fibre/epoxy resin interface life-time prediction
[AD-A132206] 04 p0507 N84-13320
Calculation of the life of components of metallurgical equipment from the parameter of failure probability
[BLL-M-35351-(5828.4F)] 04 p0545 N84-13594
Extending the lifetime of operational systems through corrosion tracking and prediction
[AD-A133931] 05 p0625 N84-14112
Complexities of high temperature metal fatigue: Some steps toward understanding
[NASA-TM-83507] 05 p0691 N84-14541
Application of kinetic fracture mechanics to life prediction for polymeric materials
[DE84-003002] 07 p0979 N84-16347
Engine cyclic durability by analysis and material testing
[NASA-TM-83577] 09 p1330 N84-18683
Lifetime prediction for electronic components and circuits using the phase noise measuring method
[FB-111] 10 p1487 N84-19723
Molecular ion photofragment spectroscopy
[DE84-003299] 10 p1577 N84-20333
Longitudinal waterblocking performance of conductive and non-conductive waterswellable nonwovens
11 p1721 N84-21225
Evaluation of adhesive materials for bonded sheath cable designs 11 p1721 N84-21226
Elevated temperature biaxial fatigue
[NASA-CR-173473] 12 p1826 N84-21905
Solar tests of aperture plate materials for solar thermal dish collectors
[NASA-CR-173462] 12 p1842 N84-22010
Mortality and spareparts: A conceptual analysis
[AD-P002626] 13 p2062 N84-23371
NASA/General Electric broad-specification fuels combustion technology program
14 p2107 N84-23638
Shelf life determination of an epoxy resin by accelerated aging
[DE84-006048] 14 p2121 N84-23709
Space Nuclear Safety Program, September 1983
[DE84-007989] 14 p2224 N84-24344
Status of understanding for gear materials
15 p2342 N84-25061
Accelerated testing
[DRIC-T-7073] 15 p2346 N84-25076
A guide to macro and micro computer performance evaluation
[AD-A140127] 15 p2389 N84-25329
The listing and approval procedure for materials and processes
[ESA-PSS-01-716-ISSUE-1] 16 p2500 N84-26046
The control of limited life materials
[ESA-PSS-01-722-ISSUE-1] 16 p2500 N84-26047
Stage I propellant surveillance report glacial acrylic acid motors GAA-001 and GAA-002 TP-H1011
[AD-A141099] 19 p3001 N84-29020
Software reliability: Additional investigations into modeling with replicated experiments
[NASA-CR-172378] 19 p3074 N84-29502
Measurement of lifetimes of the vibrational levels of the B state of N2
[AD-A142161] 19 p3101 N84-29702
Durability methods development, volume 7
[AD-A142400] 20 p3128 N84-29665
Flight service evaluation of Kevlar-49 epoxy composite panels in wide-bodied commercial transport aircraft
[NASA-CR-172344] 21 p3356 N84-31287
Quality-assurance tests of five Y-12 Kevlar-49 spools used to fabricate strands and reliability specimens for stress-rupture tests
[DE84-012373] 21 p3357 N84-31295
Characterization of thermo-mechanical fatigue
21 p3418 N84-31673
Some management initiatives to improve embedded commercial computer and training device life cycle support
[AD-P003494] 21 p3514 N84-32260
Improved heat exchanger for electrothermal devices
[NASA-CASE-LEW-14037-1] 22 p3542 N84-32425
Characterization of physiochemical properties of polymeric and electrochemical materials for aerospace flight
[NASA-CR-175258] 22 p3558 N84-32534
The 1983 Goddard Space Flight Center Battery Workshop
[NASA-CP-2331] 23 p3735 N84-33668
Deep reconditioning testing for near Earth orbits
23 p3738 N84-33689
In flight performance of a six ampere-hour nickel-cadmium battery in low Earth orbit
23 p3738 N84-33690
RCA SATCOM battery in orbit performance update and accelerated life test results 23 p3738 N84-33691
Comparison of standard and heart-pacer type 3rd electrodes in design variable cells
23 p3738 N84-33694
A problem of determining the optimal policy for maintenance systems with reserve machines and a variable number of servers
[INPE-3197-TDL/173] 23 p3832 N84-34310
The problem of determining the optimum policy for maintaining systems with spare machines and a number of variable servers
[INPE-3132-PRE/523] 23 p3833 N84-34312
Improving the fatigue life of the Mirage IIIO wing main spar
[ARL-STRUC-REPT-398] 24 p3853 N84-34437
Space Shuttle reaction control subsystem propellant tank masked screen test 24 p3862 N84-34477
Apparatus for disintegrating kidney stones
[NASA-CASE-GSC-12652-1] 24 p3936 N84-34913
On the Skorohod representation
24 p3955 N84-35041

LIFE CYCLE COSTS
The cost growth problem: A realistic diagnosis and solution
[AD-A131082] 01 p0159 N84-11049
The effect of aircraft age and flying hours on maintenance costs
[AD-A131534] 02 p0169 N84-11114
A jet fuel starter for lowest system life cycle cost
03 p0335 N84-12179
Practical impact of an integrated workbench on the quality assurance of embedded software
05 p0723 N84-14741
Life cycle costing in a dynamic environment
[AD-A133023] 05 p0757 N84-14967
Establishment and discontinuance criteria for Automated Weather Observing Systems (AWOS)
[AD-A135674] 09 p1349 N84-18811
A cost based acquisition planning model utilizing expert system concepts
[AD-P002783] 13 p2055 N84-23330
Modern helicopter development in Germany
[MBB-UD-395-83-O] 14 p2105 N84-23627
Profitability improvement of projects by early consideration of life cycle cost reduction
[MBB-UR-620-83-O] 14 p2247 N84-24495
Rotorcraft contingency power study
[NASA-CR-174675] 15 p2261 N84-24580
Methodology for assessment of corrosion costs
16 p2435 N84-25623
The reduction of life-cycle costs through continuing acrylic maintenance
[AD-P003224] 17 p2596 N84-26637
Rivista Tecnica Selenia, volume 8, number 1
17 p2652 N84-26961
The life cycle cost of integrated logistic support
17 p2652 N84-26962
Cost analysis of Mode S data link avionics system for the low-performance general aviation aircraft community
[DOT/FAA/PM-83/36] 18 p2795 N84-27735
Testing and evaluation of JET electric vehicle models, 600, 1000, and 1000P
[AD-A141187] 18 p2849 N84-28090
Cost/risk analysis for disk retirement, volume 1
[AD-A141978] 20 p3131 N84-29661
Cost evaluation of space station propulsion system options 20 p3139 N84-29932
Network repair level analysis model user's guide
[AD-A141991] 20 p3269 N84-30743
Improving system affordability
[AD-A142387] 20 p3318 N84-31062
System planning tool to measure cost avoidance resulting from independent assessment techniques applied to test program software development
[AD-P003588] 21 p3340 N84-31193
A comparison of simulator procurement/program practices: Military versus commercial
[AD-P003453] 21 p3509 N84-32230
Stand-alone flat-plate photovoltaic power systems: System sizing and life-cycle costing methodology for Federal agencies
[NASA-CR-173903] 22 p3618 N84-32922

LIFE SCIENCES
NT EXTRATERRESTRIAL LIFE
NT MOLECULAR BIOLOGY
China report: Science and technology, no. 208
[JPRS-84474] 01 p0118 N84-10766
Programmatic comments 02 p0263 N84-11732
USSR report: Space, no. 25
[JPRS-84946] 05 p0633 N84-14159
The 5th Symposium on Gravitational Physiology
05 p0634 N84-14166
Research and technology at the Lyndon B. Johnson Space Center
[NASA-TM-58257] 05 p0758 N84-14973
Global Change: A Biogeochemical Perspective
[NASA-CR-173210] 07 p1027 N84-16656
Research and technology report, 1983
[NASA-TM-85865] 08 p1247 N84-18152
China report: Science and technology
[JPRS-CST-84-009] 12 p1773 N84-21561
Computational modeling and mathematics applied to the physical sciences
[DE84-008252] 14 p2214 N84-24301
USSR report. Life sciences: Biomedical and behavioral sciences
[JPRS-UBB-84-007] 14 p2250 N84-24515
Nonenzymatic formation of energy-rich lactoyl and glyceroyl thioesters from glyceraldehyde and a thiol
[NASA-CR-173633] 17 p2617 N84-26748
Aerospace Medicine and Biology: A continuing bibliography with indexes (supplement 259)
[NASA-SP-7011(259)] 17 p2743 N84-27415
Are living cells sensitivity to gravity?
[DFVLR-MITT-83-19] 17 p2743 N84-27418
Space station needs, attributes and architectural options study. Volume 7-1: Data book. Science and applications missions
[NASA-CR-173700] 18 p2804 N84-27796
Aerospace Medicine and Biology: A continuing bibliography with indexes (supplement 260)
[NASA-SP-7011(260)] 19 p3064 N84-29440
USSR report: Life sciences. Effects of nonionizing electromagnetic radiation
[JPRS-UNE-84-001] 21 p3452 N84-31903
USSR report: Life sciences. Biomedical and behavioral sciences
[JPRS-UBB-84-012] 21 p3454 N84-31916
USSR report: Life sciences. Biomedical and behavioral sciences
[JPRS-UBB-84-018] 22 p3629 N84-32996

LIFE SPAN
Derating requirements and application rules for electronic components
[ESA-PSS-01-301-ISSUE-1] 16 p2484 N84-25930

LIFE SUPPORT SYSTEMS
NT CLOSED ECOLOGICAL SYSTEMS
NT EMERGENCY LIFE SUSTAINING SYSTEMS
NT PORTABLE LIFE SUPPORT SYSTEMS
Physiological and ecological characteristics of the water fern, azolla pinnata, and prospects of using it in biological life-support system for man 02 p0261 N84-11709
Composition and analysis of a model waste for a CELSS (Controlled Ecological Life Support System)
[NASA-TM-84368] 02 p0269 N84-11760
Plant waste processing on a solid substrate for a biological life-support system for man
07 p1046 N84-16786
Inorganic analysis in a controlled ecological life support system
[NASA-CR-173299] 08 p1204 N84-17852
Space Station Technology, 1983
[NASA-CP-2293] 09 p1268 N84-18277

Crew and life support: ECLSS
09 p1268 N84-18280
Science of integration
[AD-A135590] 09 p1364 N84-18906
The Spacelab Atmosphere Storage and Control Section (ASCS) and its orbiter common hardware flight performance 10 p1443 N84-19427
Spacelab/Orbiter atmosphere revitalization subsystem commonality and flight experience
10 p1443 N84-19428
Aerospace Medicine and Biology: A continuing bibliography with indexes (supplement 259)
[NASA-SP-7011(259)] 17 p2743 N84-27415
In-flight evaluation of 2 molecular sieve oxygen concentration systems in US Army aircraft (JUH-1H and JU-21G)
[AD-A140634] 17 p2748 N84-27443
Space Station needs, attributes and architectural options study. Volume 7-4A: Data book, architecture, technology and programmatics, part A
[NASA-CR-173686] 18 p2804 N84-27799
Development of equipment for 'Cosmos-1514' biosatellite 19 p2976 N84-28866
Aerospace Medicine and Biology: A continuing bibliography with indexes (supplement 260)
[NASA-SP-7011(260)] 19 p3064 N84-29440
Development of engineering prototype of Life Support Module (LSM)
[NASA-CR-171806] 22 p3633 N84-33023
System for the removal of airborne contaminants from aircraft environmental control systems
[AD-D011172] 23 p3727 N84-33615
Modeling and control of an on-board oxygen generation system 23 p3811 N84-34164

LIFETIME (DURABILITY)
U LIFE (DURABILITY)

LIFT
NT ZERO LIFT
Joint services advanced vertical wing (JVX) program
[GPO-22-771] 02 p0177 N84-11160
Dynamic-stall regulation of the Darrieus turbine
[DE83-017994] 03 p0321 N84-12097
Transonic flow over an isolated profile and through a cascade of blade. Phenomenological analysis
05 p0626 N84-14118
New investigation of short wings with lateral jets
[NASA-TM-77347] 06 p0782 N84-15124
Interacting boundary-layer solutions for laminar separated flow past airfoils
[NASA-CR-172287] 07 p0946 N84-16140
A recontoured, upper surface designed to increase the maximum lift coefficient of a modified NACA 65 (0.82) (9.9) airfoil section
[NASA-TM-85855] 08 p1099 N84-17144
Airfoil interaction with impinging vortex
[NASA-TP-2273] 09 p1250 N84-18159
An analytical design procedure for the determination of effective leading edge extensions on thick delta wings
[NASA-CR-172351] 10 p1419 N84-19284
The effect of trailing vortices on the production of lift on an airfoil undergoing a constant rate of change of angle of attack
[AD-A136921] 10 p1421 N84-19295
Model identification and parameter estimation of the power, lift, and drag of light aircraft from a single maneuver 13 p1930 N84-22552
A numerical study of the controlled flow tunnel for a high lift model 16 p2452 N84-25721
Separation flow at concave conical wings
17 p2647 N84-26933
Effect of elastically suspended masses on stability of elastic panels in supersonic stream
17 p2650 N84-26949
In-flight lift and drag measurements on a first generation jet transport equipped with winglets
18 p2787 N84-27689
VORCAM: A computer program for calculating vortex lift effect of cambered wings by the suction analogy
[NASA-CR-165800] 23 p3690 N84-33387
Transonic equivalence rule with lift
[AD-A143591] 23 p3690 N84-33389
Direct lift command blending
[AD-D011178] 23 p3696 N84-33420
A technique to determine lift and drag polars in flight
24 p3848 N84-34402

LIFT AUGMENTATION
Modification of wing design to increase lift for future Airbus derivatives (NEW)
[BMFT-FB-W-83-005] 02 p0178 N84-11167
Research on nonsteady flow induction
[AD-A133894] 05 p0680 N84-14468
Effects of blowing spanwise from the tips of low-aspect ratio wings of varying taper ratio, with application to improving STOL capability of fighter aircraft
[AD-A135688] 09 p1252 N84-18175
Integrated technology wing design study
[NASA-CR-3586] 23 p3693 N84-33402
Results of design studies and wind tunnel tests of an advanced high lift system for an Energy Efficient Transport
[NASA-CR-159389] 23 p3693 N84-33403

LIFT COEFFICIENTS
U AERODYNAMIC COEFFICIENTS
U LIFT

LIFT DEVICES
Experimental measurements of wake characteristics of low aspect-ratio delta and flapped-plate planforms
[AD-A130398] 01 p0004 N84-10026
The 2-dimensional inextensible lifting membrane airfoil, theory and experiment
[AD-A135251] 08 p1099 N84-17147
Doublet point method for calculations on oscillatory lifting surfaces. Part 2: Supersonic flow
[NAL-TR-785-PT-2] 16 p2439 N84-25649
Surface disturbances due to trailing vortices
[AD-A142693] 20 p3184 N84-30233

LIFT DISTRIBUTION
U FORCE DISTRIBUTION
U LIFT

LIFT DRAG RATIO
Solution of a minimum problem in aircraft wing theory
[AD-A131070] 02 p0174 N84-11147
Recent studies at NASA-Langley of vortical flows interacting with neighboring surfaces
03 p0322 N84-12109
Optimization of waverider configurations generated from non-axisymmetric flows past a nearly circular cone
06 p0780 N84-15108
Minimal drag for wings with prescribed lift, roll moment and yaw moment
[AD-A134572] 07 p0948 N84-16152
An approach to the design of airfoils with high lift to drag ratios
[UTIAS-TN-245] 09 p1250 N84-18160
Trending of cruise drag — aircraft performances
[NLR-TR-82078-U] 09 p1256 N84-18200
Identification of airfoil characteristics for optimum wind turbine performance 12 p1765 N84-21510
Slotted variable camber flap
[NASA-CASE-LAR-12541-1] 13 p1930 N84-22551
Optimal maneuvers of orbital transfer vehicles
13 p1939 N84-22606
Design of a composite wing extension for a general aviation aircraft
[NASA-CR-173832] 22 p3534 N84-32377

LIFT FANS
LACV-30 increased payload study
[AD-A133804] 05 p0663 N84-14355

LIFT FORCES
U LIFT

LIFTING BODIES
Experimental measurements of wake characteristics of low aspect-ratio delta and flapped-plate planforms
[AD-A130398] 01 p0004 N84-10026
Quasi-doublet-lattice method for oscillating thin airfoils in subsonic flow 07 p0985 N84-16378
The 2-dimensional inextensible lifting membrane airfoil, theory and experiment
[AD-A135251] 08 p1099 N84-17147
A modified lifting line theory for wing-propeller interference
[NASA-CR-173324] 09 p1252 N84-18171
Doublet point method for calculations on oscillatory lifting surfaces. Part 2: Supersonic flow
[NAL-TR-785-PT-2] 16 p2439 N84-25649

LIFTING ROTORS
NT BEARINGLESS ROTORS

LIFTING SURFACES
U LIFT DEVICES
U LIFTING BODIES
U SURFACES

LIFTS
A lifting surface computer code with jet-in-crossflow interference effects. Volume 1: Theoretical description
[NASA-CR-166524] 07 p0947 N84-16147

LIGANDS
Measurements, in vivo, of parameters of the dopamine system
[DE83-017964] 03 p0414 N84-12709
Intramolecular energy transfer reactions as a method for metal complex assisted production of hydrogen
[DE84-004762] 10 p1456 N84-19510
Computer simulation of protein systems
10 p1559 N84-20214
Intramolecular electron transfer at metal surfaces. 1. Relative energetics of some corresponding outer- and inner-sphere pathways involving halide and pseudohalide bridging ligands
[AD-A139021] 13 p1956 N84-22716
Carboranylmethylene-substituted phosphazenes and polymers thereof
[NASA-CASE-ARC-11370-1] 13 p1962 N84-22750
A twisted P-C double bond: Synthesis and structure of a (Methylene)phosphine Fe-CO-4 complex
[AD-A141502] 19 p2984 N84-28907
Solvent, ligand, and ionic charge effects on reaction entropies for simple transition-metal redox couples
[AD-A142374] 20 p3147 N84-29984
Electrochemical activation parameters for surface-attached reactants evaluation of unimolecular frequency factors for representative ligand-bridged reactions
[AD-A142483] 20 p3148 N84-29990

LIGHT (VISIBLE RADIATION)
NT AIRGLOW
NT COHERENT LIGHT
NT DAYGLOW
NT LIGHT BEAMS
NT NIGHTGLOW
NT POLARIZED LIGHT
NT SKY RADIATION
NT SUNLIGHT
NT TWILIGHT GLOW
NT ZODIACAL LIGHT
Coherent scattering of light into high frequency radiowaves
[AD-A130691] 01 p0066 N84-10431
Coherence and turbulence effects on the intensity scintillations at optical frequencies
01 p0146 N84-10960
Numerical simulation of high energy light ion beam flow through a foilless diode
[AD-A131001] 02 p0289 N84-11892
Optical fiber tactile sensor
[NASA-CASE-NPO-15375-1] 02 p0293 N84-11921
Fundamentals and techniques of nonimaging optics, volume 2
[DE83-015447] 03 p0442 N84-12902
White light signal processing with the application to spread spectrum communications
[AD-A132418] 04 p0520 N84-13417
Preliminary evaluation of the light pen as the key component in a microcomputer-based simulator
[AD-A132596] 05 p0719 N84-14712
Visible and infrared continuum spectropolarimetric observations of ten OB supergiant and O emission line stars 05 p0762 N84-14995
Relation between atmospheric scattering and backscattering coefficient
[DFVLR-FB-83-20] 07 p1075 N84-16989
An automated system for characterizing laser pulses
[AD-A138580] 13 p1995 N84-22945
A catalog of solar white-light flares, including their statistical properties and associated emissions, 1859 - 1962
[AD-A139645] 14 p2251 N84-24521
Utilization of light wave scales and opto-electronic transformers for measuring distortion and expansion
[ISD-309] 16 p2557 N84-26402
Measurement of thickness of SiO/sub 2 insulation layers in silicon structures with dielectric insulation
18 p2824 N84-27929
Variability of vertical distributions of sea water temperature and light extinction index in section across Mascarene Ridge 18 p2857 N84-28142
Excitation of sound by light 20 p3285 N84-30663
Switchable zero order diffraction gratings as light valves
[AD-A142513] 20 p3300 N84-30953
Fiber optic light guides based on polymer coated multicomponent glasses 21 p3487 N84-32100
Severe storm electricity 24 p3927 N84-34860
The 1978 - 1984 fading of the Seyfert 1 galaxy F-9
24 p3972 N84-35149
Nonuniformity and effectiveness of light collection in a large scintillation counter of ionizing radiation
24 p3994 N84-35277

LIGHT ABSORPTION
U ELECTROMAGNETIC ABSORPTION

LIGHT ADAPTATION
Experimental studies relating environmental lighting and flicker to visual fatigue in VDT operators
[DE83-016316] 03 p0419 N84-12738
Influence of level of adaptation to light upon estimation of brightness 18 p2896 N84-28385

LIGHT AIRCRAFT
NT CESSNA 210 AIRCRAFT
NT PIPER AIRCRAFT
Gust response of a light, single-engined, high-wing aircraft
[AD-A131033] 01 p0013 N84-10061
Weight and balance for the airmass incorporated sunburst model C ultralight
[NASA-CR-175356] 07 p0950 N84-16163

Noise levels and data analyses for small prop-driven aircraft
[AD-A134598] 07 p0952 N84-16175
Determination of the static performance of a Cuyuna oc model UL-430RR engine
[NASA-CR-175354] 07 p0953 N84-16179
Light aircraft sound transmission study
[NASA-CR-173175] 07 p1069 N84-16941
Field evaluation of proposed ICAO annex 16 takeoff noise certification procedure for propeller-driven airplanes not exceeding 5700 kg
[DFVLR-FB-83-34] 12 p1901 N84-22378
Development of a command control and communications system for light aircraft
[AD-A139474] 14 p2140 N84-23831
Contribution to the study of light aircraft propeller noise
[AD-B073101] 16 p2554 N84-26386
Preliminary airworthiness evaluation of the Rutan Aircraft Factory (RAF), Incorporated LONG-EZ airplane
[AD-A140765] 17 p2606 N84-26695
An overview of the NASA rotary engine research program
[NASA-TM-83609] 19 p2965 N84-28791
Experimental study of noise transmission into a general aviation aircraft
[NASA-CR-172357] 20 p3290 N84-30686
Simulated crash decelerations in a light aircraft cabin
[AD-A142606] 21 p3326 N84-31102
Fuselage torsion of a CT4 aircraft
[AD-A142753] 21 p3328 N84-31114
GROB G-112: Flight testing fulfills expectations
[NASA-TM-77745] 24 p3854 N84-34438

LIGHT ALLOYS
NT ALUMINUM ALLOYS
NT BERYLLIUM ALLOYS
NT MAGNESIUM ALLOYS
Powder metallurgy of light metal alloys for demanding applications
[AD-A142066] 21 p3366 N84-31352

LIGHT AMPLIFIERS
Research on new approaches to optical systems for inertial rotation sensing
[AD-A136045] 09 p1254 N84-18186
Development of X-ray laser media. Measurement of gain and development of cavity resonators for wavelengths near 130 angstroms, volume 1
[AD-A136305] 09 p1320 N84-18621
Laser and plasma research
[AD-A136519] 09 p1397 N84-19125
A high-gain 35 GHz free-electron laser amplifier experiment
[AD-A139593] 14 p2151 N84-23886
Alignment of multistate laser amplifiers with periodic space filtration of beam 21 p3361 N84-31452

LIGHT BEAMS
Optical residue addition and storage units using a Hughes liquid crystal light valve 12 p1906 N84-22417
Target for optically activated seekers and trackers
[AD-D011059] 22 p3655 N84-33171

LIGHT BULBS
U LUMINAIRES

LIGHT COMMUNICATION
U OPTICAL COMMUNICATION

LIGHT CURVE
K-type overcontact binaries 05 p0763 N84-15003
A cluster analysis of visual and near-infrared light curves of long period variable stars 09 p1409 N84-19210
A study of the wake-like distortions in the light curves of RS CVN stars by means of time analysis 09 p1409 N84-19213
The 433 Eros and 624 Hektor. A physical model for two highly elongated asteroids 09 p1414 N84-19250
The K2-Dwarf V471 TAU: A stellar version of solar variability 17 p2779 N84-27647
Structure in the interstellar polarization curve and the nature of the polarizing grains 18 p2950 N84-28706
Asteroid light inversion
[NASA-CR-173864] 21 p3523 N84-32316
Theoretical study of cepheid light curves
[DE84-012453] 21 p3523 N84-32322
Optical and ultraviolet observations of FK Comae stars 24 p3978 N84-35198
Observed particularities during the eclipse of Epsilon Aurigae 24 p3980 N84-35214

LIGHT DURATION
U FLASH
U PULSE DURATION

LIGHT EMISSION
NT BIOLUMINESCENCE
NT CATHODOLUMINESCENCE
NT CHEMILUMINESCENCE
NT ELECTROLUMINESCENCE
NT FLUORESCENCE
NT LUMINESCENCE
NT OPTICAL RESONANCE
NT PHOSPHORESCENCE
NT PHOTOLUMINESCENCE
NT RESONANCE FLUORESCENCE
NT THERMOLUMINESCENCE
NT X RAY FLUORESCENCE
Advanced light source
[DE83-012894] 01 p0143 N84-10940
The characteristics of OH/IR objects, infrared stars with OH maser emission
[IA-PUBL-95] 01 p0164 N84-11078
Optical emission of exploding-film and wire-initiated discharges
[DE83-014154] 02 p0223 N84-11466
Comparison of technologies for new energy-efficient lamps
[DE83-015949] 03 p0369 N84-12401
Luminosity enhancement in relativistic jets and altered luminosity functions for beamed objects
[NASA-TM-85053] 03 p0440 N84-12869
Implications of the three GRB optical flashes 09 p1407 N84-19192
The rapidly moving telescope: An instrument for the precise study of optical transients 09 p1407 N84-19193
Low latitude F-region studies using the OI6300 angstrom and 7744 angstrom nightglow measurements at Cachoeira Paulista, Brazil
[INPE-3025-PRE/463] 12 p1847 N84-22040
Power transfer for microwave discharges
[AD-A138866] 13 p2044 N84-23267
Research investigation directed toward extending the useful range of the electromagnetic spectrum
[AD-A142209] 19 p3007 N84-29064
Optical spectroscopy of disordered materials and X-ray scattering from surfaces 22 p3682 N84-33345

LIGHT EMITTING DIODES
Optical excitation of trapping states in Fe doped InP
[AD-A134183] 07 p1080 N84-17019
Improvements to high speed rotating prism cameras including on board timing and event pulse generators
[MRL-TN-478] 08 p1161 N84-17557
An optical proximity sensor for measuring surface position and orientation for robot manipulation
[AD-A134899] 08 p1205 N84-17861
Linearization of an analog fiber-optic system using the quasi-feedforward technique
[AD-A137529] 11 p1731 N84-21294
Analog fiber optics: Pragmatic considerations beyond the textbook
[AD-A137528] 12 p1908 N84-22430
Production oriented 3-5 epitaxy
[BMFT-FB-T-83-286] 13 p2048 N84-23290
Heads up display
[NASA-CASE-LAR-12630-1] 18 p2795 N84-27733
Improvements of properties and quality of LED displays
[BMFT-FB-T-84-043] 19 p3019 N84-29140
Radiation effects in optoelectronic devices
[DE84-012889] 21 p3499 N84-32176
Light-emitting diode matrix flat screen 22 p3567 N84-32592
Visual field perimeter and psychomotor tracking performance measuring apparatus
[AD-D011056] 22 p3596 N84-32775
The research and fabrication of electronic materials and the establishment of characterization center of electronic materials 24 p3958 N84-35063
Large diameter optical slip-rings
[WSRL-0342-TM] 24 p3963 N84-35095

LIGHT INTENSITY
U LUMINOUS INTENSITY

LIGHT IONS
Magnetic trapping of intense ion beams
[DE83-017356] 03 p0437 N84-12866
Rotating and propagating LIB stabilized by self-induced magnetic field
[IPPJ-840] 03 p0444 N84-12916
Light-ion-beam fusion
[DE83-018263] 03 p0448 N84-12944
Design and construction of the injector cyclotron (SPC1); the injection beamline and the Separated-Sector Cyclotron (SSC)
[NAC/AR-82-01] 07 p1074 N84-16976
Light ion beam fusion research at Sandia National Laboratories
[DE84-002109] 07 p1078 N84-17007
RFQ development at LBL
[DE84-006762] 13 p2045 N84-23271
Dependence of the backscattering coefficients of light ions upon angle of incidence
[IPPJ-AM-34] 15 p2409 N84-25459
Steady-state solutions of propagating LIB with rotating motion
[IPPJ-672] 19 p3106 N84-29734
Proceedings of Collaborating Research Meeting on Particle-Beam Applications to Fusion Research
[IPPJ-678] 21 p3500 N84-32184

LIGHT MODULATION
Optical pattern recognition for missile guidance
[AD-A130097] 01 p0018 N84-10113
Real-time synthetic aperture radar image formation utilizing an electrooptic spatial light modulator 07 p0989 N84-16411
Optical data processing for missile guidance
[AD-A136216] 09 p1254 N84-18188
Development and applications of the microchannel spatial light modulator
[AD-A136132] 09 p1323 N84-18645
A hybrid silicon membrane spatial light modulator for optical information processing 12 p1905 N84-22408
Incorporation of a PROM spatial light modulator into a system for automatic target recognition and tracking — Pockels Readout Optical Modulator (PROM)
[BAE-BT-12841] 13 p2042 N84-23250
Capabilities of broadly-tunable free-electron lasers
[DE84-009998] 19 p3030 N84-29219
Solar influence on terrestrial weather and global lightning patterns via cosmic ray modulations 24 p3927 N84-34855

LIGHT PRESSURE
U ILLUMINANCE

LIGHT PROBES
U LIGHT BEAMS

LIGHT SCATTERING
NT HALOS
In-situ light scattering techniques for determining aerosol size distributions and optical constants
[AD-A131363] 01 p0148 N84-10970
Light-scattering studies of silica aerogels
[DE83-015412] 02 p0201 N84-11308
The radiance from an isotropic point source in a multiple scattering medium
[FOA-C-30326-E2] 02 p0295 N84-11935
Transport and relaxation processes in supercritical fluids
[DE83-015966] 03 p0373 N84-12432
Design and operation of a light-scattering device for sizing and velocimetry of large droplets
[DE83-902641] 03 p0377 N84-12456
Diffusion measurements in microemulsions
[AD-A133801] 05 p0848 N84-14265
Light deflection and time delay in the solar gravitational field 05 p0746 N84-14900
Application of two-dimensional discrete-ordinates methods to multiple scattering of laser radiation
[AD-A133258] 06 p0849 N84-15539
Scattering and absorption of light by soot particles
[DE84-002308] 06 p0918 N84-15967
Study on the baffle system of the sounding rocket payload INTER-ZODIAK
[BMFT-FB-W-83-015] 07 p0962 N84-16239
Time-varying speckle phenomena in astronomical imaging and in laser scattering 08 p1242 N84-18118
Airborne measurements of launch vehicle effluent of STS-2 launch on November 12, 1981 at Cape Canaveral, Florida
[NASA-TP-2260] 09 p1342 N84-18764
The optical spectra of aerosols
[AD-A135667] 09 p1377 N84-18993
Characterization of scattering media using non-Gaussian speckle patterns
[AD-A136465] 09 p1388 N84-19065
Information content and sensitivity of matrix elements to structural changes in complex scattering system
[AD-A136600] 09 p1388 N84-19068
Intrinsic and extrinsic properties of fiber optic sensor materials
[AD-A135893] 09 p1389 N84-19072
Laser light scattering from density fluctuations in the Culham focus — plasma focus 10 p1584 N84-20383
Laser light scattering at the POSEIDON plasma focus device 10 p1584 N84-20384
Analysis and testing of a new method for drop size and velocity measurements using laser light scatter interferometry 11 p1608 N84-20529
Nonlinear optics: Where do we go from here
[DE84-006028] 11 p1732 N84-21300
Fundamental remote sensing science research program. Part 1: Scene radiation and atmospheric effects characterization project
[NASA-TM-86078] 12 p1830 N84-21929
Measurement and modeling of the optical scattering properties of crop canopies 12 p1831 N84-21934
Measurement and modeling of the optical scattering properties of crop canopies 12 p1833 N84-21948
Effects of airblast atomizer design upon spray quality 15 p2290 N84-24744

Characterization of heavy oil sprays in isothermal and burning conditions with laser light scattering measurements in the sideward region
15 p2294 N84-24766
Utilization of laser diagnostics to evaluate combustor models
15 p2294 N84-24767
Effect of multiple scattering on the propagation of light beams in dense nonhomogeneous media
15 p2325 N84-24959
Optical system with reflective baffles
[NASA-CASE-ARC-11502-1] 16 p2557 N84-26400
Studies on light scattering and absorption properties of ice clouds for visible and infrared laser wavelengths
[AD-A140526] 16 p2557 N84-26405
The near infrared polarization of NGC 7023
16 p2572 N84-26508
Some characteristics of radiation field in medium with fluctuating optical parameters
17 p2699 N84-27192
Condensational variability of scattering phase function
17 p2707 N84-27240
Laser cell analyzer
17 p2741 N84-27406
Light scattering measurements of critical fluctuations in an optically thin binary liquid sample
17 p2765 N84-27559
Investigation of multiple scattering contributions to the depolarization of light scattered by carbon dioxide and xenon in the critical region. Part 3: Comparison between theory and experimental results
[VDW-PUBL-287] 19 p3105 N84-29731
Analysis and testing of a new method for drop size measurement using laser scatter interferometry
[NASA-CR-174636] 21 p3405 N84-31595
Photon correlation spectroscopy and applications
22 p3683 N84-33352

LIGHT SOURCES
Development of a cesium-vapor-lamp system for triggering photothyristors — for power conversion applications in electric utility substations
[DE83-902691] 02 p0215 N84-11407
Calibration of vibration pickups at high frequencies
[AD-P002891] 11 p1659 N84-20826
Current trends in atomic spectroscopy
[PB84-162957] 13 p1959 N84-22732
Wake visualization
[BU-282] 15 p2255 N84-24542
Tunable optical sources
[AD-A140984] 18 p2845 N84-28068
Research investigation directed toward extending the useful range of the electromagnetic spectrum
[AD-A142209] 19 p3007 N84-29064
Theory of 4-wave mixing for VUV generation
[DE84-011663] 21 p3410 N84-31630
Evaluation of the limiting accuracy in determining the coordinates of a point light source by a television tracking system using an image dissector with the presence of a nonstationary current component
22 p3571 N84-32613

LIGHT SPEED
Cerenkov radiation generated by periodic electron bunches in a finite air path
[AD-A142063] 19 p3101 N84-29700
Quantum optics and photonics
22 p3682 N84-33344

LIGHT TRANSMISSION
NT HALOS
NT LIGHT SCATTERING
Turbulence environment characterization
[AD-A131815] 03 p0411 N84-12692
Field maintenance of radiation-shielding windows at HFEF
[DE83-015376] 04 p0507 N84-13326
Calculation of atmospheric transmittance by IBM 3033 computer code LOWTRAN IIIB
[AD-A132123] 04 p0604 N84-13989
Review of calculations of extinction for visible and infrared wavelengths in rain
[AD-A132659] 05 p0747 N84-14906
Development of an improved protective cover/light block for multilayer insulation
[NASA-TM-82563] 06 p0809 N84-15269
Optical fiber lightguide sensing for gimbal pickoffs
[AD-A133343] 07 p0950 N84-16161
Design and verification of a cloud field optical simulator
[NASA-CR-173274] 07 p1035 N84-16717
Optical detection loss due to air-borne salts on Diego Garcia
[AD-A136120] 09 p1346 N84-18792
Development of a prototype cathode sputtering plant
[BMFT-FB-T-83-251] 10 p1472 N84-19617
Solar-blind Raman lidar, phase 2
[AD-A137604] 11 p1732 N84-21295
Light transmitting window assembly
[NASA-CASE-MSC-18417-1] 13 p2042 N84-23251
A study of the mechanics of radiation damage in fiber optical waveguides
[AD-A139590] 14 p2225 N84-24352
Quantum theory of optical excitonic bistability
14 p2237 N84-24427
Optical bistability in semiconductors
14 p2237 N84-24428
Critical slowing-down in microwave absorptive bistability
14 p2237 N84-24429
Absorptive optical bistability with laser amplitude fluctuations
14 p2238 N84-24430
Precise measurements of bistability in a CO/sub 2 laser with intracavity saturable absorber
14 p2238 N84-24431
Periodic window, period doubling, and chaos in a liquid crystal bistable optical device
14 p2238 N84-24432
Effects of the radial variation of the electric field on some instabilities in lasers and in optical bistability
14 p2238 N84-24433
Theory of optical bistability in collinear degenerate four-wave mixing
14 p2238 N84-24434
A saturable interferometer theory of absorptive optical bistability
14 p2238 N84-24435
Bistability in optical waveguides
14 p2239 N84-24436
Non-linear Fabry-Perot transmission in A CdHgTe etalon
14 p2239 N84-24437
Adaptive compensation for atmospheric turbulence effects on optical propagation
15 p2325 N84-24960
Effects of atmospheric turbulence on optical propagation
15 p2325 N84-24961
Variable transmittance electrochromic windows
16 p2517 N84-26158
Utilization of light wave scales and opto-electronic transformers for measuring distortion and expansion
[ISD-309] 16 p2557 N84-26402
Use of fiber light guides for evaluation of precision characteristics of pulsed laser range finders
17 p2637 N84-26870
Preliminary comparison of insolation measurements, forecasts, and estimates from satellite imagery
[DE84-004435] 18 p2883 N84-28293
The effect of turbulence on the atmospheric transmittance
[AD-A141133] 19 p3004 N84-29039
Environmental degradation of solar optical materials, volume 2
[DE84-006505] 19 p3051 N84-29362
Resonance absorption of narrow-band laser radiation by atmospheric gases
20 p3225 N84-30493
Interpreting spectra of sea surface aerial photographs
20 p3225 N84-30494
Analytic techniques for estimating visible image transmission properties of the atmosphere
[AD-A142524] 20 p3300 N84-30954
Electrochromic materials for the regulation of solar energy transmission through windows
[DE84-012165] 20 p3311 N84-31029
Target for optically activated seekers and trackers
[AD-D011059] 22 p3655 N84-33171
Optical power source control system
[AD-D011124] 22 p3656 N84-33175
Quantum optics and photonics
22 p3682 N84-33344
Optical flip-flop system
[AD-D011165] 23 p3825 N84-34261
Gated fiber optic transmission
[AD-D011197] 24 p3963 N84-35094

LIGHT VALVES
Switchable zero order diffraction gratings as light valves
[AD-A133010] 05 p0747 N84-14908
Optical pulse generator using liquid crystal light valve
12 p1906 N84-22414
Variable transmittance electrochromic windows
16 p2517 N84-26158
Optics and materials research for controlled radiant energy transfer in buildings
16 p2517 N84-26159
Switchable zero order diffraction gratings as light valves
[AD-A142513] 20 p3300 N84-30953

LIGHT WATER REACTORS
Polymers which are resistant to ionizing radiation for paints used in light water nuclear power stations
[BLL-RISLEY-TR-4907-(9091.9F)]
17 p2626 N84-28801
Physical models and numerical methods of the reactor dynamic computer program RETRAN
[OEFZS-4272] 18 p2931 N84-28587
Calculation of crack behaviour on exposure to thermal shock
[BLL-RISLEY-TR-4941-(9091.9F)]
20 p3200 N84-30326

LIGHTING
U ILLUMINATING

LIGHTING EQUIPMENT
NT ARC LAMPS
NT FLASH LAMPS
NT LUMINAIRES
NT QUARTZ LAMPS
NT RUNWAY LIGHTS
NT XENON LAMPS
Electroluminescent formation lights for HC-130 P/N special operations. 1: Flight test candidates
[AD-A137682] 11 p1606 N84-20516
A test of electroluminescent panels for a helicopter emergency escape lighting system
[AD-A139478] 14 p2103 N84-23616
Evaluation of arctic test of tritium radioluminescent lighting
[AD-A139176] 14 p2104 N84-23619
Decision support for innovation management: Application to the lighting industry
[IIASA-RR-83-29] 15 p2416 N84-25503
Identification of exit taxiways (retroflective markers only)
[FAA-CT-83-5] 19 p2969 N84-28812

LIGHTNING
How to protect a wind turbine from lightning
[NASA-CR-168229] 01 p0102 N84-10661
Hy-wire and fast electric field change measurements near an isolated thunderstorm, appendix C
[NASA-TM-85072] 01 p0107 N84-10662
Nuclear-induced lightning aurora experiment
[AD-A131274] 02 p0249 N84-11628
The rocket-triggered lightning investigation
[AD-A131409] 02 p0249 N84-11631
Application of the Lienard-Wiechert solution to a lightning return stroke model
[NASA-TM-85082] 02 p0253 N84-11658
The effects of channel tortuosity on electromagnetic radiations from lightning return strokes
03 p0359 N84-12335
China builds first 6000kV type pulse voltage generator
[AD-A132564] 04 p0525 N84-13449
Lightning mapping sensor study
[NASA-CR-170908] 04 p0566 N84-13731
Lightning mapper sensor design study
[NASA-CR-170909] 04 p0566 N84-13732
The 1980 International Aerospace Conference on Lightning and Static Electricity
[CSIR-ELEK-249] 04 p0566 N84-13733
Mathematical and physical scaling of triggered lightning — lightning effects on aircraft circuitry
[DE84-002480] 05 p0709 N84-14648
A systematic characterization of the effects of atmospheric electricity on the operational conditions of aircraft
06 p0776 N84-15066
Airborne lightning characterization
[AD-A130627] 06 p0881 N84-15733
Characteristics of RF lightning emission at 2 GHz and 250 MHz
06 p0929 N84-16039
Formation of Meteoritic chonrules by lightning
11 p1756 N84-21462
The influence of ground conductivity on the structure of RF radiation from return strokes
[NASA-TM-86065] 12 p1860 N84-22117
Lightning data analysis
[AD-A138136] 12 p1860 N84-22118
Facilities for meteorological research at NASA Goddard/Wallops Flight Facility
[NASA-TM-84422] 15 p2371 N84-25223
Correlated measurements of UHF radar signatures, RF radiation and electric field changes from lightning
[NASA-TM-84425] 16 p2481 N84-25907
Data and results of a laboratory investigation of microprocessor upset caused by simulated lightning-induced analog transients
[NASA-TM-85821] 17 p2733 N84-27376
Tortuosity of lightning return stroke channels
[NASA-TM-86104] 18 p2883 N84-28295
An experimental and theoretical investigation of an Nemp (nuclear electromagnetic pulse simulator) type fast rise lightning simulator
[AD-A141283] 18 p2890 N84-28346
Cosmic rays, solar activity, magnetic coupling, and lightning incidence
[NASA-CR-3812] 19 p3057 N84-29397
UV laser triggering of crowbars used in the Sandia lightning simulator
[DE84-009064] 20 p3180 N84-30199
Lightning simulator circuit parameters and performance for severe-threat, high-action-integral testing
[DE84-009085] 20 p3181 N84-30211
Comparison of lightning flash rates from the PBE sensor and streak counting from the DMSP satellite
[DE84-006722] 20 p3246 N84-30602
Nighttime observations of thunderstorm electrical activity from a high altitude airplane
[NASA-TM-86455] 21 p3405 N84-31597

Lightning swept-stroke attachment patterns and flight conditions for storm hazards 1981
[NASA-TM-86279] 22 p3532 N84-32365
Mesoscale observations of lightning from Space Shuttle
[NASA-TM-86451] 22 p3598 N84-32788
NASA/MSFC FY-84 Atmospheric Processes Research Review
[NASA-CP-2329] 24 p3923 N84-34829
Severe storm electricity 24 p3926 N84-34851
Lightning mapper development: Status and requirements 24 p3927 N84-34854
Lightning Observations above and below clouds 24 p3927 N84-34856
Storm severity detecion (RF) 24 p3927 N84-34857
The optical characteristics of lightning 24 p3927 N84-34858
Remote observations of severe storms 24 p3927 N84-34859
Severe storm electricity 24 p3927 N84-34860
Studies of lightning data in conjunction with geostationary satellite data 24 p3928 N84-34861
Lightning observations from the Space Shuttle 24 p3928 N84-34862

LIGHTS
U LUMINAIRES

LIGNIN
Effect of antimony on lead-acid battery negative electrode
[DE83-014680] 03 p0369 N84-12404
Interactions of light and gravity on growth, orientation, and lignin biosynthesis in mung beans 09 p1359 N84-18879

LIKELIHOOD RATIO
Likelihood ratio tests on covariance matrices and mean vectors of complex multivariate normal populations and their applications in time series
[AD-A131523] 01 p0133 N84-10874
Tests for and against trends among Poisson intensities
[AD-A131212] 02 p0285 N84-11868
Detection of abrupt changes in dynamic systems
[NASA-CR-173217] 08 p1223 N84-17988
Variable selection in heteroscedastic discriminant analysis
[CSIR-TWISK-283] 13 p2031 N84-23171
Approximating the level probabilities in order restricted inference: The simple tree ordering
[AD-A140684] 17 p2760 N84-27525
On the Edgeworth expansion for the logarithm of the likelihood ratio, part 2
[CWI-MS-R8401-PT-2] 19 p3094 N84-29652

LIMB DARKENING
Multi-image photometric solutions for the Galilean satellites 13 p2087 N84-23522
Solar Irradiance Variations on Active Region Time Scales
[NASA-CP-2310] 17 p2778 N84-27635
Facular limb-darkening functions for irradiance modeling 17 p2778 N84-27638
Ground-based measurements of solar irradiance variations 17 p2778 N84-27639
Photometric studies of heat flow at the photosphere 17 p2779 N84-27641
Limb darkening variations 17 p2779 N84-27645
On the identification of normal modes of oscillation from observations of the solar periphery
[NASA-CR-173667] 19 p3123 N84-29844
Limb-darkening and metal abundances in the sdOB primary of the eclipsing binary LB 3459 (AA Dor) 24 p3976 N84-35183

LIMBS (ANATOMY)
NT ARM (ANATOMY)
NT FINGERS
NT HAND (ANATOMY)
NT LEG (ANATOMY)
Studies of electrically stimulated rat limb and peripheral nerve regeneration
[AD-A134356] 08 p1197 N84-17806
Overuse injuries of the lower extremities associated with marching, jogging and running. A review
[AD-A134672] 08 p1200 N84-17824

LIME
U CALCIUM OXIDES

LIMESTONE
Stress-wave experiments on selected crustal rocks and minerals
[DE84-001613] 04 p0563 N84-13714

LIMITATIONS
U CONSTRAINTS

LIMITER AMPLIFIERS
Digital audio: Dynamic range control of digital audio signals
[BBC-RD-1983/17] 05 p0665 N84-14374

LIMITERS (FUSION REACTORS)
Self-pumping impurity control by in-situ metal deposition
[DE83-014265] 02 p0195 N84-11265
Self-pumping impurity by in-situ metal deposition
[DE83-017937] 03 p0355 N84-12306
Materials needs for compact fusion reactors
[DE84-001366] 04 p0611 N84-14031
Plasma/neutral gas transport in divertors and limiters
[DE84-001594] 04 p0611 N84-14034
Applications of hybrid numerical-simulation methods to magnetic-confinement systems
[DE84-001840] 05 p0750 N84-14922
Study of limiter damage in a magnetic-field error region of the ZT-40M experiment
[DE84-001711] 05 p0750 N84-14924
Coupling between angular deflection and eddy currents in the FELIX plate experiment
[DE84-001509] 05 p0750 N84-14927
Research on modeling of FED/INTOR radio-frequency heating and studies of FED/INTOR impurity-control mechanisms
[DE83-016756] 06 p1233 N84-18056
Graphite-ceramic RF Faraday-thermal shield and plasma limiter
[DE84-010960] 20 p3163 N84-30086
Lower hybrid experiments at the 1 MW level on Alcator C: Heating and current drive
[DE84-010586] 20 p3304 N84-30981
The use of isotopically-enriched carbon probes for erosion deposition measurements in the ASDEX divertor
[DE84-012329] 20 p3307 N84-31006
Impurity origin during ICRF heating in JIPP T-IIU Tokamak
[IPPJ-682] 23 p3827 N84-34271

LIMITS
A limit theorem on characteristic functions via an extremal principle
[AD-A141390] 19 p3083 N84-29567

LIMITS (MATHEMATICS)
Limit analysis of plates by a finite element approach 01 p0093 N84-10604
On the Harnack constant and the boundary behavior of Harnack functions 04 p0576 N84-13796
Robust procedures for communication data
[AD-A136540] 09 p1299 N84-18493
Asymptotics and numerics
[AD-P002934] 14 p2196 N84-24174
Developing and measuring an understanding of the concept of the limit of a sequence
[AD-A139399] 14 p2214 N84-24296
Lower and upper bounds for EXP d+(X,Y) 15 p2401 N84-25408
On the boundary limits of harmonic functions with gradient in L sup p 22 p3634 N84-33030
A methodology for the distribution of databases 22 p3670 N84-33265

LIMNOLOGY
Limnology, second edition
[DE83-016792] 03 p0402 N84-12627
Dissolved organic matter and lake metabolism: Biochemistry and controls of nutrient flux dynamics in lakes
[DE83-016789] 04 p0571 N84-13761
An isotopic and chemical study of Lake Vanda and Don Juan Pond, Antarctica 14 p2163 N84-23952
Climatic significance of lacustrine deposits around Lake Vanda and Don Juan Pond, Antarctica 14 p2163 N84-23953

LINE CURRENT
Calculation of currents induced in a network of overhead power lines by an electromagnetic impulse
[SNIAS-841-422-109] 21 p3388 N84-31507

LINE OF SIGHT
Two-layer model of line-of-sight refractive multipath propagation
[AD-A130474] 01 p0084 N84-10418
Luminosity enhancement in relativistic jets and altered luminosity functions for beamed objects
[NASA-TM-85053] 03 p0440 N84-12889
ECM (Electronic Counter Measure) signal discrimination and identification techniques
[AD-A133427] 06 p0624 N84-15372
Another look at the optimum frequencies for a water vapor radiometer 10 p1473 N84-19622
Effects of geophysical noise on the accuracy of wind determination 17 p2687 N84-27113
Terminal control for command to line of sight guided missile 21 p3350 N84-31252
Development of a multidetector deflection measurement system
[DE84-013580] 21 p3410 N84-31631
Passive line-of-sight stabilization for an infrared sensor
[AD-A143305] 22 p3599 N84-32792
A general survey of the correlation of interstellar element depletion with line-of-sight density indicators 24 p3973 N84-35158

LINE OF SIGHT COMMUNICATION
The IF-77 electromagnetic wave propagation model
[AD-A134504] 07 p0993 N84-16441
Assessment of satellite power flux-density limits in the 2025-2300 MHz frequency range, part 1
[PB84-129402] 09 p1305 N84-18532
A system to measure LOS atmospheric transmittance at 19 GHz 15 p2324 N84-24951

LINE SHAPE
Liouvillian Green's-function theory of spectral line shape
[AD-A132467] 04 p0589 N84-13894
Subpicosecond-relaxation studies using tunable-laser-induced-grating techniques 06 p0848 N84-15531
Line width and line shape analysis in the inductively coupled plasma by high resolution Fourier transform spectrometry
[DE84-004358] 10 p1457 N84-19513
Atom-jump versus continuous models for fast ion conduction 11 p1741 N84-21357
The triangle compare method of hidden-line elimination 12 p1873 N84-22205
Momentum dependent line shapes in photoemission
[AD-A137968] 12 p1913 N84-22461
Inversion of spectral lineshapes to yield collisional rate constants
[AD-A142661] 20 p3149 N84-29994

LINE SPECTRA
NT BALMER SERIES
NT ELECTRONIC SPECTRA
NT FRAUNHOFER LINES
NT H ALPHA LINE
NT H BETA LINE
NT H GAMMA LINE
NT H LINES
NT RYDBERG SERIES
Observations of galactic center for annihilation line at 0.511 MeV
[INPE-2907-PRE/421] 02 p0305 N84-12000
Development of a continuous monitor for detection of toxic organic compounds
[PB83-234922] 03 p0378 N84-12461
The winds and coronae of early-type stars 03 p0469 N84-13086
Stellar winds driven by multi-line scattering 03 p0469 N84-13087
Liouvillian Green's-function theory of spectral line shape
[AD-A132467] 04 p0589 N84-13894
Studies of cataclysmic variables 04 p0619 N84-14084
Line profile variability in winds of OB stars 06 p0936 N84-16085
Aperture synthesis observations of star forming regions: Compact H2 regions and masers 06 p0937 N84-16092
Turbulence and mass motion in galactic molecular clouds 08 p1244 N84-18129
Characterization of ceramic powders by an X-ray measuring method
[NASA-TM-77094] 09 p1286 N84-18398
Collision widths of CO lines broadened by water vapor at elevated temperatures
[AD-A136121] 09 p1323 N84-18644
An investigation of methods for computing long path atmospheric transmittance
[AD-A136434] 09 p1345 N84-18785
Relativistic broadening near cyclotron resonance
[AD-A136224] 09 p1391 N84-19084
The fluctuation spectrum of molecular clouds — interstellar matter 09 p1408 N84-19201
Line width and line shape analysis in the inductively coupled plasma by high resolution Fourier transform spectrometry
[DE84-004358] 10 p1457 N84-19513
Atlas of high resolution infrared spectra of carbon dioxide
[NASA-TM-85764] 10 p1576 N84-20325
Precision measurements of line positions and profile at a wavelength of ten micrometers — infrared spectroscopy
[MPE-180] 10 p1579 N84-20346
Molecular clouds and galactic spiral structure 10 p1596 N84-20459
The role of H/sub 2O in molecular clouds: Line transfer and thermal balance in warm dusty medium 10 p1596 N84-20460
A high resolution solar atlas for fluorescence calculations
[NASA-CR-173366] 10 p1597 N84-20465

Possible detection of thermal cyclotron lines from small sources within solar active regions
[AD-A136218] 10 p1597 N84-20466
Fluorescence and electron energy loss cross sections in mercuric bromide
[AD-A137153] 11 p1629 N84-20657
Atom-jump versus continuous models for fast ion conduction 11 p1741 N84-21357
The electronic structure of C(2x2)S/Fe(100): S 3p-level dispersions and linewidths. Revision
[AD-A138124] 12 p1797 N84-21725
Time-resolved spectrophotometry of the nova-like cataclysmic variables RW trianguium and UX Ursa Majoris 13 p2069 N84-23408
Infrared astronomy research and high altitude observations
[NASA-CR-173526] 13 p2070 N84-23413
Publications resulting from Infrared Astronomy Research and High Altitude Observations
[NASA-CR-173525] 13 p2070 N84-23414
The prediction of field strength in the frequency range 30 - 1000 MHz 15 p2326 N84-24968
Optical scanner
[NASA-CASE-GSC-12897-1] 15 p2407 N84-25450
Mean depths of line formation 15 p2421 N84-25541
Line formation in turbulent media 15 p2421 N84-25542
Analysis of carbon dioxide bands near 2.2 micrometers
[NASA-CR-173605] 16 p2462 N84-25779
Spectroscopy of the 3.3 and 3.4 micron dust emission features 16 p2570 N84-26496
The 3.3 micron mapping of NGC 7027 16 p2571 N84-26499
Origins of the 3.28 micron dust emission feature 16 p2571 N84-26500
Detection of shocked atomic gas in the Kleinmann-Low nebula
[NASA-TM-85967] 16 p2574 N84-26523
The emission line spectra of cataclysmic variable accretion disks 16 p2576 N84-26533
Cosmic rays and the emission line regions of active galactic nuclei
[NASA-TM-86110] 16 p2582 N84-26561
Laboratory evaluation of tunable atomic line molecular spectrometers for benzene analysis
[PB84-177765] 17 p2672 N84-27032
Simultaneous retrieval of atmospheric temperatures and ray paths from occultation spectra
[NASA-CR-173649] 17 p2726 N84-27354
Seyfert galaxy narrow-line regions: A spectroscopic investigation 17 p2774 N84-27612
Accretion disks, processing jets and the asymmetric emission lines of QSOs
[NASA-CR-173632] 17 p2774 N84-27613
Abundances in galactic H2 regions, 3: G25.4-0.2, G45.5+0.06, M8, S159 and DR22
[NASA-TM-85962] 17 p2774 N84-27616
Limb darkening variations 17 p2779 N84-27645
Helium 10830 angstrom irradiance: 1975-1983 17 p2779 N84-27648
Line intensities for diagnosing laser-produced plasmas
[DE84-009857] 19 p3106 N84-29738
Inversion of spectral lineshapes to yield collisional rate constants
[AD-A142661] 20 p3149 N84-29994
Rare-earth ion-host lattice interactions: 15. Analysis of the spectra of Nd3+ in Gd3Sc2Ga3O12
[AD-A142555] 20 p3309 N84-31015
Design of short-wave absorption lines 21 p3377 N84-31433
Absolute photoionization cross sections of atomic oxygen
[NASA-CR-173873] 21 p3492 N84-32130
Nonthermal effects on the diagnostics of a collapsing gas shell Z-pinch
[DE84-009996] 21 p3502 N84-32199
Line studies of Wolf-Rayet stars: The WN subclass 21 p3522 N84-32311
A spectrophotometric study of temporal variations in the optical spectrum of SS 433 21 p3522 N84-32312
Large Deployable Reflector Science and Technology Workshop. Volume 3: Systems and technology assessment. Conclusions 21 p3523 N84-32321
The kinematics of the emission line gas in quasars and active galactic nuclei 21 p3524 N84-32326
Studies of low-mass star formation with the large deployable reflector
[NASA-TM-85960] 21 p3524 N84-32328
Observations and analysis of solar flares using H Alpha spectral profiles 21 p3526 N84-32335
Submillimeter, millimeter, and microwave spectral line catalogue
[NASA-CR-173899] 22 p3546 N84-32448
Relation of vertical intensity profiles for neutral atom lines to analyte atomization behavior in inductively coupled plasmas
[DE84-014126] 22 p3659 N84-33194
Observations of the ultraviolet spectra of helium (DB) white dwarfs and a study of the ultraviolet spectra of white dwarfs containing carbon
[NASA-CR-173889] 22 p3677 N84-33310
The ionization structure of planetary nebulae V NGC 3242
[NASA-CR-173914] 22 p3679 N84-33322
Identification of gamma-ray lines observed from SS433
[DE84-013829] 22 p3681 N84-33335
A search for 183-GHz emission from water in late-type stars
[NASA-TM-85987] 23 p3838 N84-34348
Search for emission lines in the gaseous halo of edge-on galaxies
[NASA-CR-173968] 23 p3838 N84-34349
Interstellar lines in high resolution IUE spectra of run-away B type stars 24 p3973 N84-35160
The Mg 2 lines in A dwarf stars 24 p3974 N84-35170
The search for superionization lines in A dwarf stars 24 p3975 N84-35171
An IUE study of Be stars with Fe 2 emissions in the visible 24 p3976 N84-35186
New Fe 2 lines in IUE spectra of stars 24 p3977 N84-35187

LINEAMENT
U STRUCTURAL PROPERTIES (GEOLOGY)

LINEAR ACCELERATORS
Comparison between measured and predicted performance of a high speed, free surface liquid jet flowing along a curved wall
[DE83-012728] 01 p0062 N84-10530
Effects of vane-tip geometry on the electric fields in radio-frequency quadrupole linacs
[DE83-013214] 01 p0143 N84-10937
Damping ring rf system for SIC
[DE83-011853] 01 p0143 N84-10938
High charge picosecond pulses with a double gap subharmonic buncher
[DE83-011743] 01 p0143 N84-10939
Advanced light source
[DE83-012894] 01 p0143 N84-10940
Improving the phase stability of the SLAC RF driveline network for SLC operation
[DE83-012714] 01 p0143 N84-10943
Novel neutralized-beam intense neutron source for fusion technology development
[DE83-014953] 01 p0144 N84-10949
Intense positron beams: Linacs; preworkshop copy
[DE83-012941] 01 p0146 N84-10958
Microwave measurements of azimuthal asymmetries in accelerating fields of disk-loaded waveguides
[DE83-012705] 02 p0210 N84-11373
Emittance calculations for the Stanford linear collider injector
[DE83-011851] 02 p0290 N84-11904
Subharmonic buncher for the Los Alamos free-electron laser oscillator experiment
[DE83-015220] 03 p0380 N84-12474
Monitoring of the Stanford Linac microbunches' position
[DE83-012712] 03 p0433 N84-12840
Magnetic switching
[DE83-012952] 03 p0433 N84-12841
University of Washington superconducting-booster project
[DE83-015689] 03 p0434 N84-12846
New facilities for the US high-energy physics program
[DE83-016589] 03 p0438 N84-12876
Effect of RF structure on cumulative beam breakup
[DE83-017302] 03 p0439 N84-12882
Generation of monoenergetic positrons
[DE83-015535] 03 p0440 N84-12887
Conceptual design of the high-flux VTA-2 test assembly for FMIT
[DE83-017022] 03 p0446 N84-12935
Low-inductance, dual-feed diode development
[DE84-000117] 04 p0527 N84-13465
Beam dynamics in the Advanced Test Accelerator (ATA)
[DE84-001421] 04 p0598 N84-13947
Surface properties of metal-nitride and metal-carbide films deposited on Nb for RF superconductivity
[DE84-001491] 04 p0614 N84-14055
High gain free electron laser at ETA
[DE84-002001] 05 p0686 N84-14512
Plasma beat-wave accelerator
[DE84-001601] 05 p0750 N84-14925
A 650 mm long liquid hydrogen target for use in a high intensity electron beam
[DE84-002552] 06 p0916 N84-15955
High pulse power RF sources for linear colliders
[DE84-003517] 07 p0999 N84-16477
Time-resolved beam-profile measurements on the Experimental Test Accelerator (ETA)
[DE84-002453] 07 p1072 N84-16969
Linear inductive accelerator
[AD-A135547] 08 p1229 N84-18029
Power-amplification of a heavy-ion beam in an induction linac
[DE84-002911] 08 p1231 N84-18042
The modified betatron accelerator experiment
[AD-A137447] 10 p1576 N84-20328
A 650 mm long liquid hydrogen target for use in a high intensity electron beam
[DE84-007066] 12 p1902 N84-22389
Second order particle motion equations and linear chromaticity calculation in accelerator rings
[DE84-005895] 12 p1903 N84-22391
Design and fabrication of a surface conversion negative ion source and an 80 keV pre-accelerator
[DE84-006753] 13 p2045 N84-23269
Linear induction accelerator
[AD-A139458] 14 p2222 N84-24336
Computer optimization of a linac injector trajectory
[DE84-005034] 15 p2408 N84-25456
An integrating dosimeter for pulsed radiation
[AD-A141288] 18 p2844 N84-28062
Practical aspects of tuning a ringed RFQ
[DE84-011366] 20 p3175 N84-30163
High-current, low-energy synchrotrons and compressor rings
[DE84-012104] 20 p3293 N84-30906
Making electron beams for SLC linac
[DE84-012072] 20 p3293 N84-30907
New directions in linear accelerators
[DE84-011412] 20 p3294 N84-30911
Elementary principles of linear accelerators
[DE84-007911] 20 p3294 N84-30913
Temperature rise calculations for the beam pipe in the SLC arcs
[DE84-011764] 20 p3295 N84-30924
Simulation of ultra-low emittance electron storage rings
[DE84-012050] 20 p3310 N84-31024
Operational parameters of a 2.0-MeV RFQ linac
[DE84-011368] 21 p3387 N84-31498
RFQ simulation code
[DE84-011385] 21 p3387 N84-31499
High power RF klystrons for linear accelerators
[DE84-012074] 21 p3392 N84-31527
Physics of ion sputtering
[DE84-011664] 21 p3495 N84-32150
Concept of a superconducting linac for low-velocity ions
[DE84-011740] 21 p3496 N84-32154
Phase and amplitude control system for Stanford Linear Accelerator
[DE84-011773] 21 p3496 N84-32156
Future accelerators using micro-fabrication technology
[DE84-002692] 21 p3496 N84-32157
Acceleration of high charge density electron beams in the SLAC linac
[DE84-012415] 21 p3497 N84-32161
Present status and probable future capabilities of heavy-ion linear accelerators
[DE84-011741] 22 p3653 N84-33158
Experimental investigation of certain beam transport issues in a pulsed transmission line linear accelerator
[DE84-011191] 22 p3654 N84-33164
LINAC facility at Armed Forces Radiobiology Research Institute
[AD-A143970] 23 p3822 N84-34239

LINEAR AMPLIFIERS
High power high voltage linear amplifier apparatus
[AD-D011028] 19 p3018 N84-29132
Studies of amplifier module in Delfin Facility for heating thermonuclear plasma 20 p3289 N84-30881

LINEAR ARRAYS
NT MULTISPECTRAL LINEAR ARRAYS
NT YAGI ANTENNAS
On the odd-symmetry of minimum phase-only perturbations
[AD-A130514] 01 p0131 N84-10860
The use of a beam space representation and nonlinear programming in phase-only nulling
[AD-A131365] 02 p0272 N84-11779
Optimal delay estimation in a multiple sensor array having spatially correlated noise
[AD-A133810] 05 p0734 N84-14820
Phase-only nulling at symmetric pattern locations
[AD-A133128] 06 p0822 N84-15361
Spaceborne SAR sensor architecture 07 p0987 N84-16394

Sensor head performance, responsivity and NETD using pyroelectric linear arrays — noise equivalent temperature difference (NETD)
[RSRE-MEMO-3608] 09 p1317 N84-18605
Linear or square array for eigenvalue and singular value decompositions?
09 p1401 N84-19150
Yield enhancement by fault tolerant systolic arrays (summary)
09 p1402 N84-19158
Optical systolic solutions of linear algebraic equations
12 p1905 N84-22405
On mapping homogeneous graphs on a linear array-processor model
[AD-A139912] 15 p2398 N84-25386
Modular matrix multiplication on a linear array
[AD-A139652] 15 p2400 N84-25404
A comparative study of linear array synthesis technique using a personal computer
[AD-A141444] 19 p3076 N84-29515
A comparative study of linear array synthesis technique using a personal computer
[AD-P003500] 21 p3383 N84-31468
The use of overlapped subarray techniques in simultaneous receive beam linear arrays
[AD-P003501] 21 p3383 N84-31469
Feed error effects on lens performance
[AD-P003513] 21 p3385 N84-31481
Antenna pattern characteristics of fine-steered pencil beams
[AD-P003516] 21 p3385 N84-31484
Effect of spatial decorrelation on nulling performance of linear adaptive array
[AD-A143013] 21 p3400 N84-31570
A systolic algorithm for integer GCD computation
[AD-A144409] 24 p3951 N84-35019

LINEAR CIRCUITS
The MSAD actuator solenoid, performance evaluation and modification
[DE83-011216] 01 p0074 N84-10483

LINEAR ENERGY TRANSFER (LET)
Linear energy transfer spectrum measurement experiment (P0006)
15 p2276 N84-24665
Pyrotechnic shock: A literature survey of the Linear Shaped Charge (LSC)
[NASA-TM-82583] 18 p2852 N84-28109

LINEAR EQUATIONS
NT LINEAR EVOLUTION EQUATIONS
Electrohydrodynamics 01 p0089 N84-10578
Block iterative methods for elliptic finite element equations
[AD-A129150] 01 p0129 N84-10841
KWIC index for numerical linear algebra
[DE83-014889] 01 p0135 N84-10862
Research in numerical linear algebra and numerical methods for large-scale least squares and other problems
[AD-A131400] 02 p0280 N84-11838
Solution of sparse underdetermined systems of linear equations
[DE83-016460] 02 p0283 N84-11853
Rank modification method for certain singular systems of linear equations
03 p0427 N84-12797
Acoustic-gravity wave dispersion relations in a baroclinic atmosphere
[PB83-246690] 04 p0565 N84-13726
Application of the implicit Fourier-expansion method to the calculation of three-dimension equilibria by the iterative method
[DE83-017621] 04 p0590 N84-13902
Ordering methods for sparse matrices
[AD-A133657] 05 p0735 N84-14824
Iterative techniques for the solution of elliptic finite difference equations
06 p0635 N84-15435
The causation and variability of the northern winter quasi-stationary planetary waves
06 p0677 N84-15705
Sparse Matrix Software Catalog
[AD-A133559] 06 p0898 N84-15830
Synthesis of insensitive controllers in linear quadratic control problems
[REPT-605] 06 p0900 N84-15841
An investigation of the use of iterative linear equation solvers in codes for large stiff systems of ODE's
[AD-A133189] 06 p0901 N84-15845
Suboptimal LQ control problem using reconstructed state feedback control law
07 p0962 N84-16384
Solution methods for large sparse linear systems
[AD-A134529] 07 p1062 N84-16885
Weighted decoding, by lattice, of linear block codes
[ENST-E-83008] 07 p1064 N84-16903
Generalized functions as linear functionals on generalized functions
[MC-ZW-199/83] 07 p1065 N84-16912
Numerical methods for singular perturbation problems
[AD-A134896] 08 p1220 N84-17966
A multigrid method and a combined multigrid-conjugate gradient method for elliptic problems with strongly discontinuous coefficients in general domains
[PUBL-604-REV] 08 p1222 N84-17980
Problems solved and unsolved concerning linear and nonlinear partial differential equations
[DE84-004990] 09 p1379 N84-19008
Efficient sparse matrix multiplication scheme for the CYBER 203
10 p1561 N84-20225
Algorithms for solving large sparse systems of simultaneous linear equations on vector processors
10 p1561 N84-20227
Preliminary results in implementing a model of the world economy on the CYBER 205: A case of large sparse nonsymmetric linear equations
10 p1561 N84-20228
General path-integral successive-collision solution of the bounded dynamic multi-swarm problem
[AD-A136961] 10 p1570 N84-20287
Simultaneous analysis and design
[NASA-CR-172334] 12 p1826 N84-21902
Optical systolic solutions of linear algebraic equations
12 p1905 N84-22405
On the oscillatory flowfield in solid rocket motors
13 p1945 N84-22645
Solution techniques in finite element analysis
[AD-A139552] 14 p2158 N84-23931
On the conversion of LINPACK to Ada
[AD-P002941] 14 p2197 N84-24181
Characterization and estimation of 2-dimensional ARMA (Autoregressive Moving Average) models
[AD-A139120] 14 p2211 N84-24279
A hybrid Chebyshev Krylov subspace algorithm for solving nonsymmetric systems of linear equations
[AD-A139301] 14 p2213 N84-24291
MOLAG: A method of lines adaptive grid interface for nonlinear partial differential equations
[DE84-009161] 15 p2399 N84-25396
The numerical treatment of linear integrodifferential equations
[HMI-B-381] 15 p2399 N84-25398
Simulation of linear multivariable systems with piecewise continuous input functions and with various options for graphic representation of the results
[ESA-TT-749] 16 p2544 N84-26333
Cross section for absorption of partly shielded dielectric sphere
17 p2635 N84-26858
Nonlinear partial differential equations and related problems of Pade approximations
[AD-A141519] 19 p3085 N84-29578
Multiple limit point bifurcation for Fredholm operators of non-zero index
[AD-A141660] 19 p3086 N84-29589
Analysis and control of a class of stiff linear distributed systems
[AD-A142364] 20 p3280 N84-30821
Use of theory of systems with dispersed parameters to formulate deformation resistance equations in pressure working of metals: Communication 2
[BLL-M-35595-(5828.4)] 21 p3363 N84-31337
A model of asynchronous iterative algorithms for solving large, sparse, linear systems
[NASA-CR-172418] 21 p3469 N84-31988
An integral equation for the solution of nonlinear wave equations
22 p3529 N84-32347
Use of the tensor product for numerical weather prediction by the finite element method, part 1
[AD-A143273] 22 p3625 N84-32970
Singularities connected with a trace on a Banach algebra
22 p3634 N84-33034
High-order sparse factorization methods for elliptic boundary value problems
[DE84-012582] 22 p3646 N84-33122
Use of the tensor product for numerical weather prediction by the finite element method, part 2
[AD-A144064] 23 p3802 N84-34108

LINEAR EVOLUTION EQUATIONS
Convergence of difference approximations of quasilinear evolution equations
[AD-A144694] 24 p3953 N84-35032

LINEAR FILTERS
NT KALMAN FILTERS
Robust linear filtering for multivariable stationary time series
[AD-A131209] 02 p0281 N84-11844
A study of washout filters for a simulator motion base
[UTIAS-TN-246] 07 p0959 N84-16218
Identification of a class of filtered Poisson processes
[AD-A134970] 06 p1221 N84-17969
Harmonizable filtering and sampling of time series
[AD-A137517] 10 p1570 N84-20285
Application of methods of numerical and software engineering analysis to physical and engineering data collected in a variety of laboratory and field measurement programs
[AD-A137863] 11 p1682 N84-20975
On the effect of using the Shapiro filter to smooth winds on a sphere
12 p1853 N84-22074
Linear and nonlinear filtering and stochastic control
[AD-A142229] 19 p3093 N84-29645

LINEAR INTEGRATED CIRCUITS
NT OPERATIONAL AMPLIFIERS
LSI/VLSI (Large Scale Integration/Very Large Scale Integration) ion implanted GaAs (Gallium Arsenide) IC processing. Appendix A: Feasibility analysis of Gallium-Arsenide mask programmable functions and logic arrays for high performance communications systems
[AD-A139677] 15 p2328 N84-24980
Integrating IR detector imaging systems
[NASA-CASE-NPO-15805-1] 18 p2932 N84-28590
PROCAOC: A program for computation, analysis and optimization of circuits
[INPE-3135-PRE/526] 23 p3814 N84-34184

LINEAR POLARIZATION
A polarization diversity radar data processor
[AD-A134011] 05 p0666 N84-14382
Theoretical models for the polarization of astronomical masers
21 p3522 N84-32313

LINEAR PREDICTION
Two dimensional linear prediction models. Part 1. Spectral factorization and realization
[AD-A130954] 02 p0280 N84-11833
Adaptive spectral smoothing
[AD-A132574] 04 p0588 N84-13887
Maximum entropy linear prediction method
[FUB-48-1982] 06 p0902 N84-15857
Linear prediction methods — signal processing
[FUB-52-1982] 06 p0902 N84-15858
Geometric methods for linear prediction --- signal processing
[FUB-54-1982] 06 p0903 N84-15859
Predicting variations in Earth rotation — for clock synchronization
09 p1411 N84-19225
Multichannel linear predictive coding of color images
[AD-A142260] 19 p3008 N84-29069
Evaluation of the limiting accuracy in determining the coordinates of a point light source by a television tracking system using an image dissector with the presence of a nonstationary current component
22 p3571 N84-32613

LINEAR PROGRAMMING
Computational experience in solving equilibrium models by a sequency of linear complementarity problems
[DE83-011189] 01 p0124 N84-10811
A nested-decomposition approach for solving staircase linear programs
[DE83-3013580] 02 p0274 N84-11792
Optimization of constructions by means of the finite element method
[IWECO-5071303-82-2] 02 p0283 N84-11856
Acquisition, image and data compression
[AD-A131923] 03 p0360 N84-12344
Disjunctive programming and a hierarchy of relaxations for discrete optimization problems
[AD-A132004] 03 p0425 N84-12784
Generation of feasible descent directions in continuous time linear programming
[DE84-002506] 05 p0717 N84-14694
Triangulations (tilings) and certain block triangular matrices
[DE84-003579] 07 p1064 N84-16902
A microcomputer based general linear programming optimization package
[AD-A137506] 10 p1557 N84-20198
Hidden and embedded structure in linear programs
[AD-A137773] 11 p1707 N84-21125
MINOS 5.0 user's guide
[DE84-005640] 11 p1709 N84-21140
The extreme point characterizations of semi-infinite dual non-archimedean balls
[AD-A138016] 12 p1893 N84-22330
Can Leontief and P-matrices be rescaled positive definite
[DE84-004802] 12 p1897 N84-22355
Optimal file allocation problems for distributed data bases in unreliable computer networks, 2
[AD-P002913] 13 p1981 N84-22864
A knowledge-based system for LP (Linear Programming) modeling
[AD-A139991] 15 p2392 N84-25357
Programming language LANAC 2 and implementation for a SISCO MB-8000
[INPE-3090-TDL/163] 16 p2543 N84-26322
An optimization methodology for multi-criteria comparison using response surface methods and mathematical programming
[AD-A141169] 18 p2926 N84-28555
Microcomputer-based graphical linear programming package
[AD-A141094] 19 p3075 N84-29508

The duality between expected utility and penalty in stochastic linear programming
[AD-A141393] 19 p3075 N84-29513
Linear systems analysis program user's manual, version 2.2 (VAX/VMS)
[DE84-012230] 20 p3275 N84-30789
A problem expanding parametric programming method for solving the job shop scheduling problem
[AD-A142392] 20 p3313 N84-31036
Stable method for solving linear programming problem with approximate data 21 p3484 N84-32077
Two-phase methods of solving canonical problem of linear programming 21 p3484 N84-32078
Duality in inexact fractional programming with set-inclusive constraints
[DE84-023584] 22 p3642 N84-33092
Optical acquisition, image and data compression
[AD-A143984] 23 p3816 N84-34197

LINEAR RECEIVERS
Digital communication in the presence of impulsive noise 06 p0827 N84-15392

LINEAR SYSTEMS
Linear theory of pressure oscillations in liquid-fueled ramjet engines
[AD-A131610] 01 p0012 N84-10075
ATOPS B-737 inner-loop control system linear model construction and verification
[NASA-CR-166055] 01 p0012 N84-10078
Vibration control of large linear quadratic symmetric systems
[NASA-CR-174536] 01 p0093 N84-10608
Maximum likelihood estimation of linear dynamic system parameters
[AR-002-934] 03 p0425 N84-12780
Application of pseudoinversion to linear system identification with discrete measurements
[AD-A132283] 04 p0521 N84-13422
Initial-boundary value problems for linear hyperbolic systems
[AD-A132644] 05 p0735 N84-14829
Split-Stirling-cycle displacer linear-electric drive 06 p0820 N84-15343
Nonlinear transformat
[NASA-CR-166506] 06 p0905 N84-15877
Influence of unbalanced three-phase current on characteristics of high-speed LIM 07 p0983 N84-16365
Selection of noisy sensors and actuators for regulation of linear systems — large space structures
[AD-A135442] 08 p1216 N84-17931
Algorithms, modeling and estimation for linear systems
[AD-A135134] 08 p1218 N84-17951
Finite element grid optimization
[AD-A136025] 09 p1378 N84-19001
A new approach to synthesis problems in linear system theory
[PB84-124742] 09 p1379 N84-19014
The Shock and Vibration Digest, volume 15, no. 11
[AD-A137065] 10 p1507 N84-19858
Adapting iterative algorithms for solving large sparse linear systems for efficient use on the CDC CYBER 205 10 p1560 N84-20220
Preliminary results in implementing a model of the world economy on the CYBER 205: A case of large sparse nonsymmetric linear equations 10 p1561 N84-20228
Time domain analysis and synthesis of robust controllers for large scale LQG (Linear Quadratic Gaussian) regulators
[AD-A137760] 11 p1713 N84-21172
Linear or nonlinear wave problems with input sets
[AD-A137811] 11 p1714 N84-21177
A recursive linear predictive vocoder
[AD-A138008] 12 p1805 N84-21770
Linear and nonlinear finite elements
[AD-A138468] 12 p1895 N84-22341
Control of parameter-dependent systems, spatially-distributed systems, and systems with delays
[AD-A138036] 12 p1897 N84-22354
Linear dynamics of cables and chains 13 p2000 N84-22978
An introduction to adjoint techniques
[BAE-BT-11172] 13 p2031 N84-23170
Symmetric systems with semisimple structure algebra: The quaternionic case
[NASA-CR-173421] 13 p2034 N84-23193
On the control of a linear stochastic system with finite horizon
[AD-P002949] 14 p2198 N84-24189
Optimal reduced order controllers for discrete-time linear systems with partial state estimation
[AD-P002952] 14 p2199 N84-24192
The linear quadratic optimal control problem for infinite dimensional systems with unbounded input and output operators
[AD-A139333] 14 p2214 N84-24296
Dynamic stability of high order linear systems 15 p2312 N84-24874
Two-dimensional fast Fourier transforms in image processing
[AD-A139097] 15 p2398 N84-25390
Banded preconditioning for the solution of symmetric positive definite linear systems
[AD-A140097] 15 p2399 N84-25394
Orbit maneuvers with finite thrust
[MBB-UR-654-83-O] 16 p2455 N84-25741
Implicit time dependent methods for the solution of the Euler equations 16 p2492 N84-25989
Software development based on multigrid techniques
[GMD-84] 17 p2751 N84-27459
LCAP2 (Linear Controls Analysis Program). Volume 2: Interactive LCAP2 user's guide
[AD-A141145] 18 p2924 N84-28542
Influence of microturbulence on early time HANE structure
[AD-A141244] 18 p2933 N84-28597
A maximum principle for an elliptic system and applications to semilinear problems
[AD-A141600] 19 p3085 N84-29581
Control systems design for linear dynamic systems using simple models: Some case studies. Part 1: The single-input/single-output case
[RR-247-PT-1] 20 p3171 N84-30134
A simulation technique for checking the circle criterion — linear systems stability
[RR-248] 20 p3267 N84-30733
Linear systems analysis program user's manual, version 2.2 (VAX/VMS)
[DE84-012230] 20 p3275 N84-30789
Analysis and control of a class of stiff linear distributed systems
[AD-A142364] 20 p3280 N84-30821
Hierarchial command, control and coupled bilinear systems
[AD-A142401] 20 p3280 N84-30823
State estimation and control of conditionally linear systems
[AD-A142455] 20 p3281 N84-30826
Techniques for large sparse systems arising from continuation methods
[DE84-010410] 20 p3282 N84-30833
Linear systems analysis program: Programmer's manual, version 2.2 (VAX/VMS)
[DE84-010953] 20 p3282 N84-30835
Linear structures in bilinear systems
[RR-250] 20 p3284 N84-30852
Investigation and appreciation of optimal output feedback. Volume 1: A convergent algorithm for the stochastic infinite-time discrete optimal output feedback problem
[NASA-CR-3828] 21 p3344 N84-31217
A model of asynchronous iterative algorithms for solving large, sparse, linear systems
[NASA-CR-172418] 21 p3469 N84-31988
Thermally induced instabilities of two-layer fluid systems 22 p3592 N84-32745
A finite element implementation of the dual variable method for the Navier-Stokes equations 22 p3592 N84-32746
Stability analysis of finite difference schemes for hyperbolic systems, and problems in applied and computational linear algebra
[AD-A143537] 22 p3646 N84-33119
Refinement and evaluation of helicopter real-time self-adaptive active vibration controller algorithms
[NASA-CR-3821] 23 p3689 N84-33378
Pipelined orthogonal digital lattice filters
[AD-A143902] 23 p3818 N84-34208
Analysis and regulation of nonlinear and generalized linear systems
[AD-A144671] 24 p3952 N84-35029

LINEARITY
NT COLLINEARITY
Linear rank procedures for matched observations
[AD-A131338] 02 p0264 N84-11882
Interaction of stress waves and cracks using a second order accurate finite difference method 03 p0387 N84-12522
Electrostatic waves and anomalous transport in the solar wind 03 p0470 N84-13095
Design of a high-brightness, low-jitter, short-pulse laser for plasma diagnostics
[DE84-000129] 04 p0541 N84-13584
More results on the convergence of iterative methods for the symmetric linear complementarity problem
[AD-A132863] 05 p0738 N84-14846
On the use of marginal likelihood in time series model estimation
[AD-A132828] 05 p0740 N84-14862
Measurement of multimode optical fiber attenuation
[PB83-151207] 05 p0748 N84-14913
Passive source localization from spatially correlated angle-of-arrival data
[AD-A133141] 06 p0822 N84-15382
Theoretical and software considerations for nonlinear dynamic analysis
[NASA-CR-174504] 06 p0858 N84-15589
Baroclinic instability of atmospheric jets 06 p0877 N84-15704
The linear vortex distribution using the alternative approach
[NIAST-82/80] 07 p0945 N84-16133
Linearity and resolution of photodiodes
[DE84-002761] 07 p0998 N84-16470
On the implications for LEFM (Linear elastic fracture Mechanics) of the 3-dimensional aspects in some crack/surface intersection problems
[AD-A134227] 07 p1016 N84-16592
On conditions for success of Sklansky's convex hull algorithm
[CSIR-TWISK-292] 07 p1059 N84-16866
A variational approach to superlinear elliptic problems
[AD-A134541] 07 p1063 N84-16892
Hypothesis identification in the case of the missing cell
[AD-A134553] 07 p1063 N84-16895
Linearised optimal control and application to a gliding projectile
[AD-A135605] 09 p1271 N84-18305
Estimation of parameters in linear structural relationships: Sensitivity to the choice of the ratio of error variances
[NASA-CR-171756] 09 p1372 N84-18958
Research on nonparametric methods for linear models
[AD-A135850] 09 p1377 N84-18992
Testing hypotheses in linear models with weighted rank statistics
[AD-A135759] 09 p1383 N84-19032
Fluid-structure interaction by the method of characteristics 10 p1510 N84-19884
Linear longitudinal oscillations in collisionless plasma diodes with thin sheaths. Part 1: Method
[AD-A136962] 10 p1585 N84-20388
A method for computing the leading-edge suction in a higher-order panel method
[NASA-CR-3730] 11 p1800 N84-20479
Measurements on and with non-linear systems: Problems and approaches
[AD-P002673] 11 p1857 N84-20810
Rank-based inference for linear models: Asymmetric errors
[AD-A138404] 12 p1894 N84-22340
Bayes least squares linear regression is asymptotically full Bayes: Estimation of spectral densities
[AD-A138351] 12 p1897 N84-22352
A high-gain 35 GHz free-electron laser amplifier experiment
[AD-A139593] 14 p2151 N84-23886
Bias in nonlinear regression
[AD-A139239] 14 p2218 N84-24308
Indicators of hazard for polycyclic organic matter
[PB84-167493] 15 p2288 N84-24730
Linear associative mappings
[DFVLR-FB-84-01] 15 p2396 N84-25375
Retroreflectance MAP (Measurement Assurance Program) service for coefficient of luminous intensity
[PB84-164938] 15 p2408 N84-25457
Some thoughts on the subject of dynamic elastic-plastic analyses of rapid crack propagation and crack arrest
[AD-P003116] 16 p2469 N84-25821
Measurement of the flow field behind harmonically oscillating gust generators in the model subsonic wind tunnel (MUK)
[ESA-TT-806] 16 p2487 N84-25953
Stability of steady motion of planar body in field of central force 17 p2649 N84-26944
Ray trajectories in stochastic media with linear dependence of deterministic velocity component on depth 17 p2702 N84-27211
Parallel scaled givens rotations for the solution of linear least squares problems
[AD-A140778] 17 p2758 N84-27512
Effect of fuselage upwash on the supersonic longitudinal aerodynamic characteristics of 2 fighter configurations
[NASA-TP-2330] 18 p2785 N84-27676
The approximation theory for the p-version of the finite element method, part 2
[AD-A140952] 18 p2925 N84-28550
Overground Excess Sound Attenuation (ESA). Volume 2: Analysis of data for flat grassy terrain conditions
[AD-A142420] 20 p3291 N84-30892
Reactive resonance and angular distributions in the rotating linear model
[DE84-011354] 20 p3295 N84-30919
The Shock and Vibration Digest, volume 16, no. 7
[AD-A143958] 21 p3418 N84-31679

Vibrations and stability of mechanical systems, 3
21 p3419 N84-31681
Linear motion valve
[NASA-CASE-MSC-20148-1] 22 p3603 N84-32823
Bounded-influence inference in regression
[AD-A143195] 22 p3648 N84-33126
Development of a spectroradiometer with a linear network of detectors from standard CCD
[INPE-3095-TDL/165] 22 p3657 N84-33180
Description and prediction of transition in two-dimensional, incompressible flow
23 p3748 N84-33758
Some inherently 3-dimensional problems in linear elastic fracture mechanics 23 p3759 N84-33826
A note on the eigenvalues of a layered system
[INPE-3263-PRE/594] 24 p3950 N84-35007
The analytic structure of ordinary and partial differential equation
[AD-A144121] 24 p3950 N84-35011

LINEARIZATION
Use of holographic linear Fringe Linearization Interferometry (FLI) for detection of defects
[AD-A129323] 01 p0083 N84-10543
Modified quasilinearization algorithm for optimal control problems with nondifferential constraints and general boundary conditions. Part 1: Theory
[PB83-226944] 01 p0135 N84-10885
Modified quasilinearization algorithm for optimal control problems with nondifferential constraints and general boundary conditions. Part 2: Examples
[PB83-226936] 01 p0135 N84-10886
Dynamics of a mobile tank partially filled with liquid: Equations of motion and their linearization
[WU-PAPER-174] 05 p0678 N84-14460
Derivation of linearized transfer functions for switching-mode regulators. Phase A: Current step-up and voltage step-up converters
[NASA-CR-175219] 10 p1485 N84-19707
Linearization based on least squares approximation with application to finite dimensional system equations
[VTH-LR-364] 10 p1572 N84-20302
Bodies in compressible flow: The use of axial singularity distributions
[COLL-AERON.-8329] 11 p1600 N84-20483
Linearization of an analog fiber-optic system using the quasi-feedforward technique
[AD-A137529] 11 p1731 N84-21294
A TWT amplifier with a linear power transfer characteristic and improved efficiency
[NASA-TM-83590] 12 p1810 N84-21803

LINERS
U LININGS

LINES (GEOMETRY)
NT GEODESIC LINES
Finding edges and lines in images
[AD-A130824] 01 p0147 N84-10967
Computer-Aided Structural Engineering (CASE) project. Reference manual: Computer graphics program for generation of engineering geometry (SKETCH)
[AD-A133493] 06 p0698 N84-15826
A microcomputer based system for analysis of line drawing quantization techniques
[AD-A138413] 12 p1883 N84-22272
Detection of dotted forms in a structured visual noise environment
[AD-A138653] 13 p2022 N84-23106
A tutorial for the Ramtek 9460 raster graphics system and the di-3000 graphics package
[AD-A141834] 19 p3078 N84-29530
COMEDG: A program to combine logically independent line segments into geometrically coherent lines
20 p3226 N84-30499

LINES OF FORCE
Magnetic fluorescent lamp
[DE84-014231] 22 p3590 N84-32740

LING-TEMCO-VOUGHT AIRCRAFT
NT A-7 AIRCRAFT
NT F-8 AIRCRAFT

LINGUISTICS
NT MACHINE TRANSLATION
NT PHONEMES
NT PHONEMICS
NT SEMANTICS
NT SYNTAX
NT WORDS (LANGUAGE)
Proceedings of the Conference on Applied Natural Language Processing
[AD-A129824] 01 p0121 N84-10787
Discourse and problem solving
[AD-A131003] 02 p0277 N84-11816
The syntactic theory of belief and knowledge
[AD-A133905] 05 p0732 N84-14807
Linguistic methodology for the analysis of aviation accidents
[NASA-CR-3741] 06 p0784 N84-15135
Inquiry semantics: A functional semantics of natural language grammar
[AD-A135153] 08 p1215 N84-17929
Status and progress of studies on the nature of speech, instrumentation for its investigation and practical applications
[AD-A136416] 09 p1298 N84-18488
Systemic grammar in computation: The Nigel case
[AD-A139251] 14 p2209 N84-24262
Speech communication 22 p3684 N84-33358
Linguistics 22 p3684 N84-33359

LINING PROCESSES
Investigations of mechanical properties of high strength steels and their suitability for glass lining
[BMFT-FB-T-84-076] 21 p3368 N84-31370

LININGS
NT ROCKET LININGS
A laboratory test for evaluating the fire containment characteristics of aircraft class D cargo compartment lining material
[DOT/FAA/CT-83/44] 01 p0006 N84-10035
Replacement of PBNA in HB and HC polymers used in SRM propellant and liner
[NASA-CR-170936] 03 p0355 N84-12311
Ceramic composite liner material for gas turbine combustors
[NASA-TM-83490] 05 p0631 N84-14145
Effects of broadened property fuels on radiant heat flux to gas turbine combustor liners
[NASA-TM-83537] 07 p1001 N84-16494
Calculations of wall fire spread in an enclosure
[PB84-123165] 09 p1297 N84-18481
Liner environment effects study
11 p1613 N84-20556
Solar pond performance estimation, engineering design, and construction experience
[DE84-003992] 11 p1674 N84-20924
Slip forms for the construction of PRessed CAst-in-Situ concrete linings for shield tunneling
[AD-A139411] 14 p2134 N84-23792
Combustor liner construction
[NASA-CASE-LEW-14035-1] 15 p2260 N84-24577
Advanced combustor liner cooling concepts
15 p2292 N84-24756
Permeability of polymetric membrane lining materials
[PB84-166859] 15 p2302 N84-24818
The oil impregnation of phenolic-resin-based materials used in the fabrication of ball-bearing cages
[ESA-PSS-01-712-ISSUE-1] 16 p2472 N84-25846
Protective linear materials for transparent plastics
[AD-P003204] 17 p2592 N84-26617
Contributions to the theory of sound propagation in ducts with bulk-reacting lining
[NLR-MP-83064-U] 17 p2763 N84-27551
Evaluation of two polyimides and of an improved liner retention design for self-lubricating bushings
[NASA-TM-83719] 18 p2817 N84-27887
Shock wave absorber having a deformable liner
[DE84-011308] 20 p3186 N84-30243

LINKAGES
Special cases of friction and applications
[NASA-TM-83523] 02 p0229 N84-11500
Automated dynamic analysis of mechanisms with flexible links 15 p2311 N84-24870
Optimization of high speed linkages
15 p2312 N84-24872
KINSYN and micro KINSYN: User-friendly computer systems for linkage design 15 p2312 N84-24873
Design considerations for shear links in eccentrically braced frames
[PB84-192186] 20 p3171 N84-30136

LINKING
U JOINING

LINKS
Measurements of atmospheric effects on satellite links at very low elevation angle 15 p2323 N84-24948
Serial link protocol design: A critique of the X.25 standard, level 2
[DE84-002724] 20 p3278 N84-30806

LIOUVILLE EQUATIONS
Implicit function method for the Liouville equation
[DE84-013282] 22 p3650 N84-33140

LIPIDS
A comparative study of the fatty acid composition of prochloron lipids 10 p1544 N84-20115

LIPSCHITZ CONDITION
On some extensions of a theorem of Hardy and Littlewood 04 p0575 N84-13784
Stability of explicit Runge-Kutta methods
[DE84-008902] 19 p3090 N84-29621

LIQUEFACTION
NT COAL LIQUEFACTION
Diode laser spectrophotometry for monitoring acetylene on-line in a liquefaction plant
[DE84-002117] 06 p0851 N84-15548
Simulation program for central helium liquefier
[DE84-009866] 19 p3079 N84-29539

LIQUEFIED GASES
NT LIQUEFIED NATURAL GAS
NT LIQUID AMMONIA
NT LIQUID HELIUM
NT LIQUID HELIUM 2
NT LIQUID HYDROGEN
NT LIQUID NITROGEN
NT LIQUID OXYGEN
Liquefied energy gas terminal risk: A comparison and evaluation
[IIASA-RR-83-34] 15 p2360 N84-25161
A review of the basic concepts of dense gas dispersion with special regard to modelling of heat transfer
[QUEL-1512/84] 16 p2487 N84-25952

LIQUEFIED NATURAL GAS
Alternative gaseous-fuels safety assessment
[DE84-001735] 05 p0662 N84-14350
Assessment of institutional barriers to the use of natural gas fuel in automotive vehicle fleets
[NASA-CR-168183] 05 p0699 N84-14587
Heat transfer effects during cold dense gas dispersion
[PB84-162999] 14 p2177 N84-24043
A review of the basic concepts of dense gas dispersion with special regard to modelling of heat transfer
[QUEL-1512/84] 16 p2487 N84-25952
Phenomenology and modeling of heavy gas dispersion
[DE84-006800] 18 p2878 N84-28272
Vapor spill pipe monitor
[DE84-011103] 20 p3190 N84-30267
Cost effectiveness of converting to alternative motor vehicle fuels. A technical assistance study for the city of Longview
[DE84-010479] 21 p3375 N84-31415
Liquified natural gas densities: Summary of research program at the National Bureau of Standards
[PB84-202647] 22 p3675 N84-33297

LIQUID ALLOYS
Choice of a melting installation for aluminum alloy
[BLL-OA-TRANS-3095-(6196.3)]
06 p0804 N84-15239

LIQUID AMMONIA
Ammonia boiling in long tubes. Heat transfer and charge loss in vertical and horizontal tubes
[CETIM-14-C-011] 21 p3403 N84-31588

LIQUID ATOMIZATION
Constant-output atomizer — Inhalation therapy and aerosol research
[NASA-CASE-MFS-25631-1] 03 p0370 N84-12406
Producing a cryogenic gust in an Eiffel type atmospheric wind tunnel with short gust 14 p2095 N84-23569
Atomization of liquid sheets in high pressure airflow
[NASA-TM-83731] 20 p3183 N84-30223

LIQUID BEARINGS
Experimental determination of gap flow-conditioned forces at turbine stages and their effect on the running stability of simple rotors
[NASA-TM-77293] 06 p0852 N84-15553
Unbalance response of a single mass rotor mounted on dissimilar hydrodynamic bearings
10 p1515 N84-19919

LIQUID CHROMATOGRAPHY
Separation as asphaltenes using high-resolution supercritical-fluid chromatography
01 p0038 N84-10240
Application of Kelgraph to electrochemical detection to flow injection analysis and high performance liquid chromatography
[PB83-226928] 01 p0039 N84-10248
Effects of surface area and pore size upon liquid chromatographic fractionations of polystyrene oligomers using ethylphenyl derivatized silicas
[DE83-014632] 01 p0051 N84-10327
Liquid chromatographic analysis of nitrocellulose-base propellants
[AD-A129005] 01 p0052 N84-10333
Determination of a jet fuel metal deactivator by high performance liquid chromatography
[AD-A132220] 04 p0509 N84-13336
Identification and characterization of elastomer vulcanizate materials using pyrolytic gas liquid phase chromatography
[AD-A134056] 05 p0658 N84-14325
Partial analysis of Insta-Foam
06 p0928 N84-16030
PETN homolog analysis and large-scale preparation of pure PETN homologs by High-Performance Liquid Chromatography (HPLC)
[DE84-002169] 07 p0972 N84-16300
Liquid-phase photoionization detector for liquid chromatography 13 p1955 N84-22711
Application of a spray deposition method for reversed phase liquid chromatography-mass spectrometry
[PB84-159029] 14 p2124 N84-23730

Group-type hydrocarbon standards for high-performance liquid chromatographic analysis of middistillate fuels
[NASA-TP-2317] 14 p2131 N84-23774
Supercritical fluid chromatography/supersonic jet spectroscopy
[DE84-007364] 15 p2267 N84-24724
Developments in open tubular liquid chromatography
[DE84-010585] 18 p2812 N84-27853
Application of the liquid column chromatography to the study of lubricating oils and esters separation 18 p2817 N84-27889
Application of liquid column chromotography to the study of lubricant oils and ester separation 18 p2819 N84-27903
Low cost acetylene terminated polymers
[AD-A140040] 19 p2998 N84-28996
Supercritical and chromotography/supersonic jet spectroscopy
[DE84-012124] 21 p3360 N84-31312
Multivariate curve resolution in liquid chromatography
[DE84-013797] 22 p3549 N84-32466
High performance liquid chromatographic studies of the ion exchange selectivity of Nafion
[AD-A144646] 24 p3881 N84-34585

LIQUID COOLED REACTORS
NT BOILING WATER REACTORS
NT EXPERIMENTAL BREEDER REACTOR 2
NT LIGHT WATER REACTORS
NT LIQUID METAL COOLED REACTORS
NT PRESSURIZED WATER REACTORS
NT SWIMMING POOL REACTORS

LIQUID COOLING
NT FILM COOLING
Auxiliary heat-exchanger flow-distribution test
[DE83-012698] 01 p0082 N84-10535
Testing and characterizations of infrared sensor over the temperature range of 2 Kelvin to 300 Kelvin 06 p0820 N84-15347
A helium-3 refrigerator employing capillary confinement of liquid cryogen 06 p0821 N84-15353
Turbulence modeling in liquid metal free convection — in reactor cooling systems 06 p0842 N84-15490
Effectiveness of two portable liquid-cooled undergarments in reducing heat stress
[AD-A133174] 06 p0893 N84-15801
Capacity control of screw compressor units 11 p1640 N84-20726
Resonance in the water circuit of a cooling tower
[S/T-REPT-VOL-1-NO-2] 20 p3188 N84-30254

LIQUID CRYSTALS
Development of large area Multi-coloured Multifunctional Displays (MFA) in liquid crystal technology
[BMFT-FB-T-83-096] 02 p0300 N84-11970
Far infrared studies on superconductors and heat-capacity studies on liquid crystals
[DE84-001105] 04 p0613 N84-14046
Far-infrared studies on superconductors and heat-capacity studies on liquid crystals
[DE84-001123] 05 p0756 N84-14957
Head-Up Display (HUD) technology demonstration
[AD-A134695] 08 p1104 N84-17180
Heat transfer measurements in cold wind tunnels
[AD-A135740] 09 p1315 N84-18591
Development of a large area color display
[BMFT-FB-T-83-206] 10 p1499 N84-19801
Electrohydrodynamic and flow instabilities in nematic polymers
[AD-A137812] 11 p1744 N84-21380
The applications of silicon liquid crystal light valves to optical data processing: A review 12 p1905 N84-22409
Magneto-optic garnet and liquid crystal optical switches 12 p1905 N84-22410
Optical pulse generator using liquid crystal light valve 12 p1908 N84-22414
Liquid crystal light valve structures
[NASA-CASE-MSC-20036-1] 12 p1912 N84-22457
Safety eye protection through use of fast acting optical switching
[AD-A138582] 13 p2023 N84-23120
Optically-induced bistability in a nematic liquid crystal 14 p2234 N84-24401
Self-beating instabilities in bistable devices 14 p2236 N84-24415
Polarization bistability in cholesteric liquid crystals 14 p2236 N84-24420
Periodic window, period doubling, and chaos in a liquid crystal bistable optical device 14 p2238 N84-24432
Multistability due to the helical optical distributed feedback in the cholesteric liquid crystals 14 p2241 N84-24454
Fluorescent guests in thermotropic and chirality in lyotropic liquid crystals
[AD-A139985] 15 p2413 N84-25487
Liquid crystal polyester-carbon fiber composites
[NASA-CR-172323] 17 p2618 N84-26754
Fabrication of biaxially oriented films via poly(p-phenylene teraphthalamide)/H2SO4 liquid crystalline dopes
[AD-A141755] 19 p3111 N84-29764
Impact of laser radiation on optical properties of polymer liquid crystal in phase transition range 20 p3296 N84-30868
Research Reports of the Faculty of Engineering, no. 31
[DEC/1983/31] 21 p3476 N84-32034
Properties of bubble domains in cholesteric-nematic mixtures 21 p3477 N84-32039
Experimental study of strong nonlinear-optics effects in liquid crystals 21 p3483 N84-32071
Effects of cyclohexyl groups and ortho-substituents on the viscosity of ester liquid crystal components
[AD-A143028] 21 p3504 N84-32205
Liquid crystal materials for matrix displays
[AD-A143039] 21 p3504 N84-32206
Improved materials for DC dynamic scattering at elevated temperatures
[AD-A143076] 21 p3504 N84-32207
Optical spectroscopy of disordered materials and X-ray scattering from surfaces 22 p3682 N84-33345
Investigation of electro-optical effects in liquid crystals for high information density over a wide temperature range — displays
[BMFT-FB-T-84-120] 23 p3831 N84-34304

LIQUID DROPS
U DROPS (LIQUIDS)

LIQUID FILLED SHELLS
Instabilities of a gyroscope produced by rapidly rotating, highly viscous liquids
[AD-A130874] 01 p0084 N84-10547
Dynamics of a mobile tank partially filled with liquid: Equations of motion and their linearization
[WU-PAPER-174] 05 p0678 N84-14480
Liquid payload roll moment induced by a spinning and coning projectile
[AD-A133681] 05 p0680 N84-14472
An experimental investigation of the boundary layer structures in a partially-filled horizontal and rapidly-rotating cylinder 06 p0832 N84-15414
Liquid management in low gravity using baffled rotating containers
[NASA-TP-2263] 06 p0834 N84-15427
Pressure measurements in a rapidly rotating and coning, highly viscous fluid
[AD-A136824] 10 p1491 N84-19753
Further analysis of yawsonde data from some liquid payload projectiles
[AD-A137256] 11 p1653 N84-20791
Flight data on liquid-filled shell for spin-up instabilities
[AD-A139136] 14 p2101 N84-23610
A relationship between liquid roll moment and liquid side moment
[AD-A140658] 17 p2668 N84-27011
An explanation of spin-up instabilities for a 155mm binary projectile
[AD-A141534] 19 p3023 N84-29173

LIQUID FLOW
NT OPEN CHANNEL FLOW
NT WATER FLOW
Shock conditions and shock wave structures in a steady flow in a dissipative fluid
[NASA-TM-77381] 07 p1001 N84-16490
Empirical analysis of meandering and flow characteristics in laboratory and natural channels
[DE84-003461] 08 p1179 N84-17679
Multicolor printing plate joining
[NASA-CASE-LEW-13598-1] 13 p1992 N84-22930
Liquid flow through mesh-wire gauze wicks — models
[NLR-TR-83104-U] 21 p3403 N84-31592

LIQUID FUELS
NT AIRCRAFT FUELS
NT AUTOMOBILE FUELS
NT CRYOGENIC ROCKET PROPELLANTS
NT DIESEL FUELS
NT GASOLINE
NT HYDROCARBON FUELS
NT HYDROGEN FUELS
NT HYPERGOLIC ROCKET PROPELLANTS
NT JET ENGINE FUELS
NT JP-4 JET FUEL
NT JP-5 JET FUEL
NT KEROGEN
NT KEROSENE
NT LIQUID AMMONIA
NT LIQUID HYDROGEN
NT LIQUID ROCKET PROPELLANTS
NT MONOPROPELLANTS
NT SLURRY PROPELLANTS
Theoretical studies on heterogeneous combustion
[DE84-003178] 07 p0971 N84-16289
Heavy-duty diesel emissions as a function of alternate fuels
[PB84-120716] 09 p1291 N84-18426
Combustion characteristics in the transition region of liquid fuel sprays
[NASA-CR-175396] 10 p1454 N84-19495
Measurements in liquid fuel sprays 11 p1608 N84-20526
Automatic holographic droplet analysis for liquid fuel sprays 11 p1609 N84-20531
Combustion characteristics in the transition region of liquid fuel sprays 11 p1609 N84-20534
Neutron radiographic study of liquid propellant combustion 13 p1949 N84-22869
Liquid propellant ignition studies 13 p1949 N84-22870
Liquid fuel atomization and mixing in a high velocity air stream 15 p2291 N84-24746
Utilization of alternative fuels in diesel engines
[NASA-CR-174669] 17 p2628 N84-26813

LIQUID HELIUM
NT LIQUID HELIUM 2
Optimized He 2 cooling systems for space application. Behavior and handling of superfluid helium at G = 0, phase 1
[BMFT-FB-W-83-008] 02 p0207 N84-11349
Transient heat transfer in superfluid helium, part 2
[DE83-015767] 03 p0453 N84-12984
Heat transfer to subcooled HE 1
[DE83-017767] 04 p0535 N84-13520
Propulsion apparatus and method using boil-off gas from a cryogenic liquid — controlling spacecraft attitude and drag
[NASA-CASE-MFS-25946-1] 06 p0796 N84-15183
A helium-3 refrigerator employing capillary confinement of liquid cryogen 06 p0821 N84-15353
Specific heat of He-3 in the Fermi liquid region
[DE83-011586] 06 p0924 N84-16009
Zero gravity experiment of superfluid helium
[ISAS-604] 07 p0960 N84-16225
Absolute electroacoustic measurement of temperature oscillations in superfluid helium by the reciprocity method
[AD-A136951] 10 p1575 N84-20322
Design considerations for a HE-3 refrigerator for space applications
[NASA-TM-85973] 18 p2836 N84-28001
Period-doubling 2-torus state in a convecting He-3-superfluid He-4 solution
[DE84-009985] 22 p3666 N84-33243
Onset of oscillations in symmetric convective states in a superfluid He-3-He-4 mixture
[DE84-009984] 22 p3666 N84-33244
Dynamics of normal-zone propagation in Ta at small currents
[DE84-009990] 22 p3666 N84-33245
Optical effects of the gravitationally induced concentration gradient in tricritical 3He-4He
[DE84-009972] 23 p3830 N84-34297
Momentum distributions in hcp, bcc, and liquid He-4
[DE84-014679] 23 p3831 N84-34300

LIQUID HELIUM 2
Superfluid Helium Cryostat for Space Utilization (CRHESUS): Development and test overview 10 p1442 N84-19420
Experimental study on porous-plug phase separator for superfluid He2
[ISAS-612] 20 p3308 N84-31006
Superfluid helium 2 liquid-vapor phase separation: Technology assessment
[NASA-TM-85966] 22 p3593 N84-32752

LIQUID HYDROGEN
Analytical design of a liquid hydrogen fueled turbofan-ramjet engine for flight Mach numbers zero to five 03 p0336 N84-12187
A 650 mm long liquid hydrogen target for use in a high intensity electron beam
[DE84-002552] 06 p0916 N84-15955
Cryogenic Fluid Management Experiment (CFME) trunnion verification testing
[NASA-CR-168310] 07 p0985 N84-16381
Analysis of a topping-cycle, aircraft, gas-turbine-engine system which uses cryogenic fuel
[NASA-TP-2294] 12 p1771 N84-21549
A 650 mm long liquid hydrogen target for use in a high intensity electron beam
[DE84-007086] 12 p1902 N84-22389
Study of systems and technology for liquid hydrogen production independent of fossil fuels
[NASA-CR-173422] 13 p1965 N84-22768
Dense Coulomb plasmas: Quantum statistics and ordering 15 p2410 N84-25484
A study of liquid hydrogen cooled LO2/LH2 rocket combustor with channel wall construction
[NAL-TR-767] 16 p2459 N84-25763

Liquid hydrogen polygeneration system and process
[NASA-CASE-KSC-11304-1] 19 p3001 N84-29017
An integrated space station propulsion system
20 p3139 N84-29933

LIQUID INJECTION
NT WATER INJECTION
Droplet size distribution and liquid volume concentration in a water spray: Predictions and measurements
15 p2291 N84-24748
Supersonic flows around a circular cone with or without blowing on the surface
[AD-A143258] 22 p3532 N84-32362

LIQUID LASERS
Analysis of a 10 megawatt space-based solar-pumped neodymium laser system
[NASA-CR-3774] 07 p1009 N84-16544
Bibliography of Soviet Laser Developments, no. 62, November - December 1982
[AD-A137854] 11 p1683 N84-20851
Bibliography of Soviet Laser Developments, no. 61, September - October 1982
[AD-A137867] 11 p1683 N84-20852
Bibliography of Soviet Laser Developments, Number 63, January-February 1983
[AD-A138742] 13 p1995 N84-22948

LIQUID LITHIUM
Hydrogen trapping by yttrium in low-temperature lithium
[DE83-012721] 02 p0194 N84-11253
Ferrous alloy metallurgy, liquid lithium corrosion and welding
[DE84-014858] 22 p3556 N84-32517

LIQUID MERCURY
U MERCURY (METAL)

LIQUID METAL COOLED REACTORS
NT EXPERIMENTAL BREEDER REACTOR 2
Liquid metal breeder-coolant blanket concept
[DE84-006554] 20 p3302 N84-30971

LIQUID METAL FAST BREEDER REACTORS
Mixed convection and stratification phenomena in liquid metals 06 p0842 N84-15488
Single phase sodium flow in complex and deformed generators 06 p0842 N84-15489
Turbulence modeling in liquid metal free convection — in reactor cooling systems 06 p0842 N84-15490
Liquid metal experimental facilities — fast breeder reactors 06 p0842 N84-15492
Studies on sodium boiling phenomena in out of pile rod bundles for various accidental situations in Liquid Metal Fast Breeder Reactors (LMFBR) experiments and interpretations 06 p0842 N84-15493
Thermohydraulics of liquid metals, volume 2 — conferences
[VKI-LS-1983-07-VOL-2] 06 p0842 N84-15494
Temperature distributions, boiling and dry-out behind local blockages — liquid metal fast breeder reactors (LMFBR) 06 p0843 N84-15495
Sodium boiling experiments in bundle geometries under fast transient and steady state conditions — fast breeder reactor safety analysis 06 p0843 N84-15496
The BLOW-3A: A theoretical model to describe transient two phase flow conditions in Liquid Metal Fast Breeder Reactor (LMFBR) coolant channels
06 p0843 N84-15497
Theoretical simulation of thermohydraulic behavior of sodium cooled subassemblies in steady state and transient conditions — liquid metal fast breeder reactors (LMFBR)
06 p0843 N84-15498
Computation of the thermohydraulics in subassemblies for accident situations — liquid metal fast breeder reactors (LMFBR) 06 p0843 N84-15499
Thermohydraulics of LMFBR core catchers — liquid metal fast breeder reactors (LMFBR)
06 p0843 N84-15500
Sloshing response of a reactor tank with internals
[DE84-009629] 22 p3595 N84-32766

LIQUID METALS
NT LIQUID LITHIUM
NT LIQUID SODIUM
NT MERCURY (METAL)
Predicting the base phase in the crystallization of eutectic alloys
[BLL-M-35347-(5828.4)] 04 p0497 N84-13262
Measurement of precipitate nucleation times in molten metals by pulsed surface melting
[DE84-002363] 05 p0656 N84-14311
Embrittlement of steels due to galvanizing or coating with zinc paint: An investigation of embrittlement in welding or heating operations — liquid metal embrittlement
[AERE-TR-4774] 06 p0805 N84-15244
Thermohydraulics of liquid metals, volume 1 — conferences
[VKI-LS-1983-07-VOL-1] 06 p0841 N84-15487
Mixed convection and stratification phenomena in liquid metals 06 p0842 N84-15486
Thermohydraulics in liquid metals
06 p0842 N84-15491
Liquid metal experimental facilities — fast breeder reactors 06 p0842 N84-15492
Thermohydraulics of liquid metals, volume 2 — conferences
[VKI-LS-1983-07-VOL-2] 06 p0842 N84-15494
Thermohydraulic applications of liquid metals in the non-nuclear field 06 p0843 N84-15501
Analytical and numerical solution for a solidifying liquid alloy slab 06 p0927 N84-16025
Effect of liquid tin-zinc on the drilling parameters of several alloys
[PB84-134782] 10 p1464 N84-19582
Direct-contact high-temperature thermal energy storage heat exchanger
[DE84-000012] 12 p1816 N84-21839
Solubility of hydrogen in metals and its effect of pore-formation and embrittlement
[NASA-CR-173399] 14 p2127 N84-23751
Status of new direction of liquid lubricants
14 p2154 N84-23905
Magnetohydrodynamic power generation
[NASA-TP-2331] 15 p2409 N84-25458
Liquid metal corrosion considerations in alloy development
[DE84-008512] 18 p2815 N84-27868
Disassembly of isochorically heated liquids
[DE84-009536] 19 p3108 N84-29747
Liquid metal infiltration of an aluminum alloy into a packed column of B4C particles
[DE84-012136] 20 p3158 N84-30055
An MPD thruster with liquid metal injection
[ISAS-610] 20 p3165 N84-30103
A diffusion mechanism in the catalytic conversion of carbonaceous materials into diamonds at high pressures
[CSIR-TRANS-1743] 22 p3557 N84-32526
Friction and wear studies of liquid metal wetted, metallic fiber brushes
[AD-A143473] 22 p3604 N84-32831
Solidification of highly undercooled liquid droplets
[AD-A143892] 23 p3714 N84-33543
Embrittlement of 4340 type steel by liquid lead and antimony and lead-antimony solutions
[AD-A143785] 23 p3718 N84-33567
Clad cast steel strip
[DE84-014245] 23 p3719 N84-33574
The movement of particles in liquid metals under gravity forces and the interaction of particles with advancing solid-liquid interface 24 p3882 N84-34594
Study of metal-insulator transition
24 p3955 N84-35044

LIQUID NITROGEN
Measured Hugoniot states of a 2-element fluid, O-2 + N sub 2 prime, near 2 Mg/m-3
[DE83-015910] 05 p0662 N84-14349
A small and light weight heat exchanger for on-board helium refrigerator 06 p0619 N84-15339
A proposed method for model temperature conditioning in cryogenic wind tunnels
[OUEL-1480/83] 07 p0960 N84-16224

LIQUID OXYGEN
Combustion performance and heat transfer characterization of LOX/hydrocarbon type propellants, volume 1
[NASA-CR-171713] 02 p0202 N84-11319
Combustion performance and heat transfer characterization of LOX/hydrocarbon type propellants
[NASA-CR-171712] 02 p0205 N84-11335
Measured Hugoniot states of a 2-element fluid, O-2 + N sub 2 prime, near 2 Mg/m-3
[DE83-015910] 05 p0662 N84-14349
Atomization and mixing study
[NASA-CR-170943] 06 p0834 N84-15428
Linear and nonlinear aspects of rotordynamics
06 p0929 N84-16034
SSME structural dynamic model development
[NASA-CR-170960] 08 p1121 N84-17287
LOX/CH4 for reusable high performance booster engines 20 p3138 N84-29926
High pressure LOX/natural gas staged combustion technology 20 p3138 N84-29927
An integrated space station propulsion system
20 p3139 N84-29933
Review of LOX Bearing and Seal Materials Tester (BSMT) radial load system
[NASA-CR-171162] 23 p3756 N84-33810

LIQUID PHASE EPITAXY
Silicon liquid phase epitaxy with solution transport by centrifugal forces and investigation and characterization of silicon epitaxial layers by transmission electron microscopy
[BMFT-FB-T-83-097] 02 p0300 N84-11969
Liquid phase epitaxy of InP/In1-xGxAsyP1-y heterostructures. Part 3: Phase diagrams
[FI-65-TBR-20-PT-3] 03 p0456 N84-13000
Control of impurities in the epitaxial growth of high quality GaAs
[AD-A133187] 06 p0922 N84-15996
Infrared devices for control applications
[BMFT-FB-T-83-247] 10 p1579 N84-20349
Material growth and characterization for solid state devices
[NASA-CR-173265] 10 p1587 N84-20401
Large plate CdTe synthesis by sealed vessel transport
[AD-A137514] 10 p1588 N84-20409
Studies of 3-5 compound semiconductors for optical and microwave applications
[AD-A137849] 11 p1744 N84-21381
Ferroelectric tungsten bronze bulk crystals and epitaxial thin films for electro-optic device applications
[AD-A138693] 13 p2046 N84-23278
Microwave, semiconductor research - materials, devices and circuits
[AD-A140052] 15 p2413 N84-25489
Nonequilibrium crystal growth during laser annealing of silicon 18 p2939 N84-28639
X-ray topographic methods and application to analysis of electronic materials 18 p2940 N84-28645
Recent advances in LPE GaAs-based solar cells
19 p3044 N84-29310
Process in manufacturing high efficiency AlGaAs/GaAs solar cells by MO-CVD 19 p3044 N84-29311
The research and fabrication of electronic materials and the establishment of characterization center of electronic materials 24 p3958 N84-35063

LIQUID PHASES
High strength powder metal (PM) steels by liquid phase sintering
[BMFT-FB-T-83-139] 02 p0196 N84-11287
Electron-molecule interactions in gases and liquids: The electron-attachment process in gases and nonpolar liquids
[DE83-017205] 03 p0436 N84-12863
Phase and compression behavior in sedimentation and thickening of liquid-solid suspensions
[PB83-249664] 04 p0496 N84-13257
Experimental picosecond transient spectra for i2 photodissociation in liquids
[AD-A134371] 07 p0989 N84-16282
Time-temperature studies of high temperature deterioration phenomena in lubricant systems: Synthetic ester lubricants
[AD-A135464] 08 p1166 N84-17594
TDPAC (Time Differential Perturbed Angular Correlations) study of liquid and amorphous se sub (1-x)Te sub x alloys
[AD-A135588] 09 p1279 N84-18353
Electrohydrodynamic and flow instabilities in nematic polymers
[AD-A137812] 11 p1744 N84-21380
Physical processes in fluids
[NASA-CR-170990] 12 p1814 N84-21827
Liquid-vapor and solid-liquid-vapor phase equilibria in natural gas systems
[PB84-179191] 16 p2474 N84-25860
Atmospheric chemistry of H2O2, NO3, HONO, and HNO3: Influence of aqueous phase and heterogeneous processes
[PB84-183680] 20 p3243 N84-30592
Calorimetric determination of the thermodynamic behavior of reversible liquid-phase reactions for use in energy storage
[DE84-010437] 21 p3507 N84-32218
Microstructural development and control in liquid phase sintering; processing, structures and properties of cold worked metal matrix composites
[AD-A143188] 22 p3555 N84-32509
Liquid and solid phase compositions in a partially frozen jP-5 fuel low in n-alkanes
[AD-A143390] 22 p3561 N84-32553
Superfluid helium 2 liquid-vapor phase separation: Technology assessment
[NASA-TM-85966] 22 p3593 N84-32752

LIQUID PLUS SOLID ZONES
U MUSHY ZONES

LIQUID PROPELLANT ROCKET ENGINES
NT HYDRAZINE ENGINES
NT HYDROGEN OXYGEN ENGINES
NT SPACE SHUTTLE MAIN ENGINE
Atomization and mixing study
[NASA-CR-170943] 06 p0834 N84-15428
Orbital propulsion module system configuration study. Volume 1: Executive summary
[S/DT/YA-25-030-VOL-1] 08 p1120 N84-17282
Orbital propulsion module system configuration study, volume 2
[S/DT/YA-25-030-VOL-2] 08 p1120 N84-17283
Numerical schemes used in the computer program for nozzle performance predications of liquid rocket engines
[NAL-TR-771] 09 p1274 N84-18316

Low loss injector for Space Shuttle main engine. Center director's discretionary fund
[NASA-TM-82567] 10 p1450 N84-19469
AFRPL (Air Force Rocket Propulsion Laboratory) technical objective document FY 1985
[AD-A137856] 11 p1626 N84-20641
Investigation of combustion characteristics of a high chamber pressure rocket motor
13 p1952 N84-22693
A study of liquid hydrogen cooled LO2/LH2 rocket combustor with channel wall construction
[NAL-TR-767] 16 p2459 N84-25763
Experimental exhaust plume investigation with MBB 10 N bipropellant thruster
[MBB-UR-558-84] 17 p2617 N84-26747
The 1984 JANNAF Propulsion Meeting, volume 1
[AD-A142852] 20 p3135 N84-29906
Rocket injector anomalies study. Volume 2: Results of parametric studies
[NASA-CR-174703] 22 p3543 N84-32429
Exploratory testing of the MBB 10 N bipropellant engine. Volume 2: Preliminary exhaust plume investigations
[MBB-UR-561-82-VOL-2] 23 p3702 N84-33464
Exploratory testing of the MBB 10 N Bipropellant engine. Volume 1: Characterization tests
[MBB-UR-572/82-VOL-1] 24 p3867 N84-34505

LIQUID ROCKET PROPELLANTS
NT CRYOGENIC ROCKET PROPELLANTS
NT HYPERGOLIC ROCKET PROPELLANTS
NT MONOPROPELLANTS
NT SLURRY PROPELLANTS
Combustion performance and heat transfer characterization of LOX/hydrocarbon type propellants, volume 2
[NASA-CR-171714] 02 p0202 N84-11318
Weightlessness and management of liquid rocket propellant
[AD-A132516] 04 p0509 N84-13334
Droplet decomposition in a reactive atmosphere: Complete responses for large activation energies
[AD-A132840] 05 p0650 N84-14273
Laser effects and vulnerability program. Liquid propellant characterization
[AD-A134584] 07 p1010 N84-16550
Decomposition of four ammonium nitrate propellants
[AD-A136916] 10 p1470 N84-19601
LGM-30B, stage 2 dissected motor test report
[AD-A140337] 16 p2460 N84-25765
Analysis of electric propulsion orbit transfer vehicles versus IUS, CENTAUR-G, and a reuseable bipropellant system
[AD-A141173] 18 p2808 N84-27827
Liquid hydrogen polygeneration system and process
[NASA-CASE-KSC-11304-1] 19 p3001 N84-29017
Dual mode propulsion system engine testing for INTELSAT 20 p3136 N84-29913
LOX/CH4 for reusable high performance booster engines 20 p3138 N84-29926
The liquid bipropellant stage concept: Filling the OTV gap 20 p3140 N84-29936

LIQUID ROTATION
U ROTATING LIQUIDS

LIQUID SLOSHING
Nonlinear sloshing analysis of liquid in containers with arbitrary geometries
[NAL-TR-757] 09 p1313 N84-18579
A relationship between liquid roll moment and liquid side moment
[AD-A140658] 17 p2668 N84-27011
Suppression of finite-amplitude effects in sloshing modes in cylindrical cavities
[AD-A140652] 17 p2758 N84-27509
Penn State Get Away Special
18 p2799 N84-27759
Sloshing response of a reactor tank with internals
[DE84-009629] 22 p3595 N84-32766

LIQUID SODIUM
Single phase sodium flow in complex and deformed generators 06 p0842 N84-15489
Turbulence modeling in liquid metal free convection — in reactor cooling systems 06 p0842 N84-15490
Studies on sodium boiling phenomena in out of pile rod bundles for various accidental situations in Liquid Metal Fast Breeder Reactors (LMFBR) experiments and interpretations 06 p0842 N84-15493
Sodium boiling experiments in bundle geometries under fast transient and steady state conditions — fast breeder reactor safety analysis 06 p0843 N84-15496
Theoretical simulation of thermohydraulic behavior of sodium cooled subassemblies in steady state and transient conditions — liquid metal fast breeder reactors (LMFBR) 06 p0843 N84-15496
Computation of the thermohydraulics in subassemblies for accident situations — liquid metal fast breeder reactors (LMFBR) 06 p0843 N84-15499
Outline and evaluation of a spaceborne sodium heat pipe furnace with three compartments
10 p1440 N84-19407

LIQUID SURFACES
Thermodynamic surface for water: The formulation and computer programs
[PB83-249789] 04 p0496 N84-13256
Flow and free surface of a non-Newtonian fluid between concentric cylinders maintained at unequal temperatures
15 p2315 N84-24893
Invariance of level of rotating liquid
[BLL-M-35611-(5828.4)] 20 p3182 N84-30220
Surface property modification of silicon
[NASA-CR-173952] 23 p3788 N84-34023

LIQUID WASTES
NT URINE
NT WASTE WATER
A guide for effluent radiological measurements at DOE installations
[DE83-016639] 04 p0538 N84-13542

LIQUID-GAS MIXTURES
NT AEROSOLS
NT FOG
Investigation of two-component two-phase channel flow with heat supply for application in inside cooled turbine blades 02 p0221 N84-11447

LIQUID-LIQUID INTERFACES
Mass transfer during drop formation in the presence of interfacial turbulence in the liquid-liquid systems
[BLL-DOUNREAY-TR-923-(9091.9F)]
09 p1311 N84-18568
Oscillatory instability in a 2-fluid Benard problem
[AD-A142792] 21 p3399 N84-31565
Hopf bifurcation in two-component flow
[AD-A142844] 21 p3400 N84-31566

LIQUID-SOLID INTERFACES
Surface modification of some titanate minerals subjected to hydrothermal chemical attack
[AERE-R-10799] 01 p0039 N84-10249
Measurements of ultrasonic scattering from near-surface flaws
[DE83-017693] 03 p0431 N84-12827
Single Pb (1-x)Sn(x) Te crystal growth by vapor phase transport, with formation of a liquid/solid interface
[INPE-2811-PRE/369] 03 p0451 N84-12967
Formation of structure of low-alloy steel inoculated with rare-earth metals and alkaline-earth metals
[BLL-M-35321] 04 p0497 N84-13258
Surface chemistry in the flotation of minerals
06 p0817 N84-15323
Spectroscopic studies on surface reactions between minerals and reagents in flotation systems
06 p0817 N84-15324
Influence of deflocculant on the isoelectric point of refractory powders: Considerations on the action of deflocculant
[NASA-TM-77364] 07 p0969 N84-16277
Foreign particles at a solidification front
[BMFT-FB-W-83-031] 10 p1495 N84-19777
Dual clearance squeeze film damper
[NASA-CASE-LEW-13506-1] 13 p1932 N84-22562
Solar-assisted hydrogen generation by photoelectrocatalysis: Electric birefringence and ellipsometric spectroscopy of the semiconductor/electrolyte interface
[PB84-169804] 15 p2288 N84-24731
Purification of metals by zone melting. An optimization 15 p2307 N84-24839
A critical assessment of thermodynamic data for the Ca-Mg system
[NPL-DMA(A)-73] 15 p2415 N84-25500
Liquid-vapor and solid-liquid-vapor phase equilibria in natural gas systems
[PB84-179191] 16 p2474 N84-25860
Crystallization of silicon ribbons
18 p2936 N84-28618
The effect of growth rate on interface morphology
18 p2936 N84-28624
The S-Web technique for high-speed growth of Si sheets 18 p2937 N84-28629
Low angle silicon sheet growth: A review of progress, problems and promise 18 p2938 N84-28631
The wetting of ceramic opaque suspensions on oxidized alloy surfaces
[AD-A142899] 21 p3370 N84-31381
The movement of particles in liquid metals under gravity forces and the interaction of particles with advancing solid-liquid interface 24 p3882 N84-34594
Theory of the interface between a classical plasma and a hard wall
[DE84-701221] 24 p3966 N84-35111

LIQUID-VAPOR EQUILIBRIUM
Liquid-vapor and solid-liquid-vapor phase equilibria in natural gas systems
[PB84-179191] 16 p2474 N84-25860
The vapor pressure of Salt-HCl-Water solutions below 0 C
[AD-A141184] 18 p2811 N84-27845
Phase and volumetric studies for methane/synthesis gas separations: The hydrogen-carbon monoxide-methane system
[PB84-214394] 21 p3375 N84-31417

LIQUID-VAPOR INTERFACES
Vapor-liquid phase separator studies
[NASA-CR-166545] 08 p1156 N84-17527
Evaluating parameters of vertical exchange of ocean waters by radioisotopic methods
18 p2858 N84-28146
Modeling kinetics of aerodisperse phase in ocean surface layer 18 p2859 N84-28153
Propagation of gas jet in liquid
21 p3480 N84-32057
Improved monogroove heat pipe design: Insulated liquid channel with bridging wick
[NASA-CASE-MSC-20497-1] 24 p3899 N84-34692

LIQUIDS
NT CRYOGENIC FLUIDS
NT CRYOGENIC ROCKET PROPELLANTS
NT FERMI LIQUIDS
NT FERROFLUIDS
NT HYDRAULIC FLUIDS
NT HYPERGOLIC ROCKET PROPELLANTS
NT LIQUEFIED GASES
NT LIQUID AMMONIA
NT LIQUID FUELS
NT LIQUID HELIUM
NT LIQUID HYDROGEN
NT LIQUID LITHIUM
NT LIQUID METALS
NT LIQUID NITROGEN
NT LIQUID OXYGEN
NT LIQUID ROCKET PROPELLANTS
NT LIQUID SODIUM
NT MERCURY (METAL)
NT MONOPROPELLANTS
NT ORGANIC LIQUIDS
NT ROTATING LIQUIDS
NT SLURRY PROPELLANTS
Oscillations of a liquid in a rotating cylinder. Part 2: Spin-up
[AD-A129094] 01 p0077 N84-10505
Shocked fluids at high densities and temperatures
[DE83-015901] 02 p0219 N84-11437
Molecular basis for local compositions in liquid-mixture models
[DE83-016604] 04 p0495 N84-13250
Dissociative ionization of liquid water induced by vibrational overtone excitation
[DE83-017739] 04 p0495 N84-13251
Prediction of multicomponent liquid-mixture viscosity from binary thermodynamic data
[DE83-011934] 04 p0536 N84-13524
Penetrant and magnetic-particle inspection for material integrity
[DE83-017830] 04 p0546 N84-13600
Note on evaporation in capillaries
[AD-A132850] 05 p0650 N84-14275
Parametric acoustic array formation via weak collinear and noncollinear interaction in dispersive fluids
[AD-A133660] 05 p0675 N84-14436
Review of properties of various types of calorimeters: High luminosity and high energy
06 p0911 N84-15917
Electro-optical transmission and liquid water content of fogs and clouds
[AD-A134307] 07 p1039 N84-16738
Rules governing the distribution of a gas jet in a liquid. Communication 2
[BLL-M-35437-(5828.4)] 08 p1154 N84-17513
Prospects for single-molecule detection in liquids by laser-induced fluorescence
[DE84-001702] 09 p1324 N84-18647
Initial value problems for viscoelastic liquids
[AD-A136425] 09 p1375 N84-18980
Fluoroalkyl siloxanes as liquid-repellent fabric finishes. Part 3: The durability of the copolymers and comparisons with commercially available finishes
[AD-A136662] 10 p1467 N84-19579
Physical processes in fluids
[NASA-CR-170990] 12 p1814 N84-21827
Status of new direction of liquid lubricants
14 p2154 N84-23905
Thermal and oxidative stabilities of liquid lubricants
14 p2154 N84-23907
Penn State Get Away Special
18 p2799 N84-27759
Hyperbolicity and change of type in the flow of viscoelastic fluids
[AD-A141508] 19 p3023 N84-29172

Definition of the concentration gradient above flammable liquids
[DE84-006296] 20 p3149 N84-29996
Temperature dependence of the Raman OH-stretching overtone from liquid water
[AD-A143131] 21 p3359 N84-31305
Metastable complexes of helium-hydrogen isotopes
[DE84-009895] 21 p3496 N84-32160
Carbon-13 and proton nuclear magnetic resonance analysis of shale-derived refinery products and jet fuels and of experimental referee broadened-specification jet fuels
[NASA-CR-174761] 22 p3561 N84-32552
The effect of fluids on waveguides below cutoff penetrations as related to electromagnetic shielding effectiveness
[AD-A144685] 24 p3896 N84-34670

LIQUIDUS
Middle East Technical University Journal of Pure and Applied Sciences, volume 15, no. 3
15 p2401 N84-25411
Application of regular associated solution model to the liquidus curves of the Sn-Te and Sn-SnS systems
15 p2402 N84-25418

LISP (PROGRAMMING LANGUAGE)
A mechanical proof of the turing completeness of pure LISP
[AD-A130625] 01 p0121 N84-10785
Learning to program in LISP
[AD-A132611] 05 p0728 N84-14781
File searching problems in logic programming systems
[AD-A136522] 09 p1367 N84-18923
Implementation of MACLISP on a large address space computer
[DE84-005042] 11 p1710 N84-21145
A proposal for the extension of the LISP language
[INPE-3056-PRE/476] 17 p2752 N84-27463
LOGLISP sequential forms with resolution semantics
[AD-A144413] 24 p3946 N84-34989
SPIRIT: An evolutionally designed intelligent tutoring system
[AD-A144636] 24 p3949 N84-35003

LISTS
Corporate Author Authority List, 1983
[PB83-156034] 02 p0302 N84-11980

LITERATURE
NT BIOGRAPHY
NT DOCUMENTATION
The evaluation/validation process: Data from disciplines resting on good theoretical foundations
07 p1086 N84-17065
The Shock and Vibration Digest, volume 16, no. 3
[AD-A139707] 13 p2000 N84-22976
CLARIFY: An on-line guide for revising technical prose
[N-2037-RC] 15 p2417 N84-25509
Literature review on occurence and methodology for determination of nickel, chromium, manganese and arsenic species in air
[PB84-172105] 16 p2483 N84-25788
Selected bibliography of solar thermal literature. Volume 1: Bibliography
[DE84-011386] 20 p3315 N84-31052
A comprehensive guide to the literature on acoustic emission from composites
[DE84-011054] 21 p3358 N84-31296

LITHIUM
NT LIQUID LITHIUM
New fabrication process for a tubular LiAl/FeS cell battery
[DE83-014305] 01 p0074 N84-10488
Fusion materials irradiation test facility test-cell instrumentation
[DE83-012823] 01 p0085 N84-10552
Performance demonstration of a high-power space-reactor heat-pipe design
[DE83-012688] 01 p0145 N84-10952
High pressure equation of state of Li, Na and K
[DE83-014844] 02 p0191 N84-11238
Experimental study of dissociative attachment in optically-pumped lithium molecules
[AD-A131601] 02 p0289 N84-11894
Lithium equation-of-state
[DE83-017968] 03 p0347 N84-12253
Feasibility of a laser or charged-particle-beam fusion-reactor concept with direct electric generation by magnetic-flux compression
[DE83-015735] 03 p0381 N84-12482
Mass transfer behavior of a modified austenitic stainless steel in lithium
[DE84-000338] 04 p0502 N84-13293
Influence of a flowing-lithium environment on the fatigue and tensile properties of type 316 stainless steel
[DE84-000611] 04 p0503 N84-13295
The Active Magnetospheric Particle Tracer Explorers (AMPTE) program 05 p0641 N84-14216
Plasma confinement and interaction experiments --- Active Magnetospheric Particle Tracers Explorers mission 05 p0641 N84-14218
Ferrous alloy metallurgy: Liquid-lithium corrosion and welding
[DE84-003011] 07 p0975 N84-16317
Polymerization of 3-methyl-2,5-Dibromothiophene utilizing n-butyl lithium and Copper(II) chloride
[AD-A136955] 10 p1468 N84-19585
High energy density lithium primary cells using nitrogen containing polymer positives
[AD-A137377] 10 p1529 N84-20018
Ionic conductivity in lithium hexaoxometallate solid solutions 11 p1744 N84-21379
Radiation damage and defect behavior in ion-implanted, lithium counterdoped silicon solar cells
[NASA-TM-83646] 13 p1985 N84-22890
Electrochemistry of carbides and carbon cathodes in molten halides
[DE84-007966] 15 p2287 N84-24725
Performance tests of 4-5 year old lithium sulphur dioxide batteries
[AD-A139842] 15 p2363 N84-25176
Long cycle life secondary lithium cells utilizing tetrahydrofuran
[AD-A140762] 17 p2723 N84-27331
Cell and defect behavior in lithium-counterdoped solar cells 19 p3046 N84-29322
The transfer of atoms, ions and molecular groups in solution. Part 1: Models and limits
[AD-A142333] 20 p3147 N84-29981
Quality control analysis of TA-23 glass seals for lithium ambient temperature batteries
[DE84-011719] 20 p3164 N84-30094
Perspective of the corrosive behavior of lithium and sodium
[DE84-011635] 21 p3367 N84-31362
The effects of lithium counterdoping on radiation damage and annealing in n(+)p silicon solar cells
[NASA-TM-83755] 21 p3390 N84-31513
Lithium cell reactions
[AD-A142976] 21 p3391 N84-31522
Performance test results of a lithium bromide-water absorption heat pump that uses low-temperature (60 deg C(140 deg F)) waste heat
[DE84-013129] 21 p3403 N84-31586
Electron capture cross sections in high energy He2+ + neutral Li collisions
[IPPJ-679] 21 p3500 N84-32182
Thermal management of a lithium/iron-sulfide battery
[DE84-013436] 22 p3587 N84-32722

LITHIUM ALLOYS
Electrochemical characteristics of lithium-silicon alloy electrodes for high-temperature-battery applications
[DE83-014343] 01 p0039 N84-10244
Stress-corrosion behavior of aluminum-lithium alloys in aqueous environments
[NASA-TM-85853] 02 p0193 N84-11256
Seperators for lithium alloy-iron sulfide fused-salt batteries
[DE83-016203] 02 p0215 N84-11406
Lattice dynamics of the mixed-conducting intermetallic compound alpha-LiAl
[DE83-014334] 05 p0756 N84-14959
Precipitation mechanisms in aluminum-lithium alloys
[AD-A134836] 06 p1133 N84-17367
Fundamental mathematical principles for electrochemical engineering
[DE84-002181] 08 p1221 N84-17975
Use of the Li-Al/FeS battery in advanced vehicle propulsion systems
[DE84-007275] 15 p2421 N84-25538
Corrosion fatigue of an Al-Zn-Mg alloy and an Al-Mg-Li alloy 21 p3364 N84-31339
Lithium-alloy/metal sulfide battery research
[DE84-013427] 22 p3587 N84-32720
The influence of grain structure, testing temperature and environment on the monotonic and low cycle fatigue behavior of a high strength aluminum-copper-lithium alloy 23 p3716 N84-33556
Significance of the environment in corrosion cracking of Al-Mg and Al-Li-Mg system alloys 24 p3871 N84-34534

LITHIUM CHLORIDES
Examination of the electrochemical behaviour of titanium in the LiCl-KCl melt
[BLL-OA-TRANS-3010-(6196.3)] 01 p0042 N84-10273
Safety studies on Li/SOCl-2 reserve battery
[AD-A132279] 04 p0526 N84-13458
Behavior of an aromatic heterocyclic polymer in salt solution
[AD-A134865] 06 p1138 N84-17401
Use of a polyacetylene cathode in primary lithium-thionyl chloride cells
[AD-A138791] 13 p1966 N84-22896
Open cycle lithium chloride cooling system
[DE84-005831] 20 p3184 N84-30234
Lithium cell reactions
[AD-A142976] 21 p3391 N84-31522
Multicell LiSOCl sub 2 reserve battery
[DE84-012812] 21 p3395 N84-31542
Electrochemical performance of porous nickel sulfide electrodes
[DE84-009586] 22 p3590 N84-32741
Characterization of open circuit voltage and capacity as a function of time 23 p3736 N84-33673

LITHIUM COMPOUNDS
NT LITHIUM CHLORIDES
NT LITHIUM FLUORIDES
NT LITHIUM HYDRIDES
NT LITHIUM NIOBATES
NT LITHIUM OXIDES
NT LITHIUM SULFATES
Investigation of the electrochemical formation of Li-C intercalation compounds
[AD-A130879] 01 p0037 N84-10233
Assessment of the BCL and ORL chemical heat pumps
[DE83-011450] 01 p0080 N84-10518
Ionic conductivity in lithium hexaoxometallate solid solutions
[AD-A131842] 03 p0346 N84-12250
Performance test results of an absorption heat pump which is designed to utilize low-temperature 600C (1400F) industrial waste heat
[DE83-017194] 04 p0537 N84-13533
Development of molten carbonate fuel cell technology
[DE84-004856] 15 p2364 N84-25183
Enhanced low-temperature performance of a multicell LiSOCl sub 2 battery
[DE84-011680] 21 p3394 N84-31537

LITHIUM FLUORIDES
Electrochemical performance of porous nickel sulfide electrodes
[DE84-009586] 22 p3590 N84-32741

LITHIUM HYDRIDES
New gallium precursors for the formation of high purity gallium arsenide by metal organic vapor phase deposition
[AD-A143361] 22 p3663 N84-33219

LITHIUM NIOBATES
Temperature compensation of surface transverse waves for stable oscillator applications
[AD-A144245] 24 p3894 N84-34660

LITHIUM OXIDES
Ionic conductivity of Li7BiO6
[AD-A135386] 08 p1124 N84-17307
Molten carbonate fuel cell cathode development
[DE84-012101] 21 p3395 N84-31544

LITHIUM SULFATES
Performance tests of 4-5 year old lithium sulphur dioxide batteries
[AD-A139842] 15 p2363 N84-25176

LITHIUM SULFUR BATTERIES
Composition gradients in electrolyzed LiCl-KCl melts
[DE83-012347] 01 p0037 N84-10237
Effects of solvent and supporting electrolyte on the electrochemical reduction of sulfur dioxide
[DE83-013436] 01 p0038 N84-10241
Chemistry of lithium alloy/iron sulfide cells
[DE83-014815] 02 p0215 N84-11408
International Meeting on Lithium Batteries
[AD-A132371] 04 p0525 N84-13455
Effects of water on the cathode passivation by lithium dithionite in the Li/SO2 battery
[DE84-003103] 07 p0998 N84-16473
Lithium/iron sulfide batteries for electric-vehicle propulsion and other applications
[DE84-004193] 09 p1310 N84-18565
Compatibility and accelerated aging study for Li(Si)/FeS/sub 2 thermally activated batteries
[DE84-006099] 12 p1813 N84-21818
System/battery design interaction for a lithium-metal sulfide van battery
[DE84-007274] 15 p2421 N84-25537
Multicell LiSOCl sub 2 reserve battery
[DE84-012812] 21 p3395 N84-31542
Ampule tests to simulate glass corrosion in ambient temperature lithium batteries, volume 2
[DE84-014330] 22 p3589 N84-32732
The 1983 Goddard Space Flight Center Battery Workshop
[NASA-CP-2331] 23 p3735 N84-33668
Charge control investigation of rechargeable lithium cells 23 p3736 N84-33671
Performance and safety characteristics of lithium-molybdenum disulfide cells 23 p3736 N84-33672
Characterization of glass fiber separator material for lithium batteries 23 p3736 N84-33674

Kinetics of open circuit processes in undischarged Li/SOCl2 cells
[CONTRIB-336] 23 p3736 N84-33675
Related studies in long term lithium battery stability
23 p3736 N84-33676
Testing of candidate batteries for global positioning system 23 p3736 N84-33677
Reserve Li/SOCl2 battery safety testing
23 p3736 N84-33678
Performance and safety to NAVSEA instruction 9310.1A of lithium-thionyl chloride reserve batteries
23 p3737 N84-33679
High rate discharge studies of Li/SO2 batteries
23 p3737 N84-33680

LITHOGRAPHY
NT PHOTOLITHOGRAPHY
Experimental and theoretical studies of electron beam lithography for the fabrication of semiconductor circuits with submicron dimensions: Water distortion, comparison of results
[BMFT-FB-T-83-068] 02 p0216 N84-11414
Further development in electron beam lithography
[BMFT-FB-T-83-099] 02 p0216 N84-11415
Fabrication of structures on semiconductors by X-rays: Comparison and optimization of mask technologies
[BMFT-FB-T-83-071] 02 p0300 N84-11968
Storage ring design for X-ray lithography
[DE84-002859] 09 p1390 N84-19079
Development of short gate FET's
[AD-A140819] 17 p2663 N84-26992
Synthesis and evaluation of improved electron-beam and X-ray lithographic resist polymers
[AD-A141674] 19 p2999 N84-29006
Study of dry resistant techniques for electron beam lithography
[BMFT-FB-T-84-037] 19 p3028 N84-29206

LITHOLOGY
Contribution of LANDSAT-4 thematic mapper data to geologic exploration
[E84-10021] 02 p0237 N84-11557
Application of Heat Capacity Mapping Mission data to regional geologic analysis for mineral and energy resource evaluation
[E84-10078] 07 p1021 N84-16825
Lithological characterization of crystalline basement rock provinces of the interior of the United States
[NASA-CR-175180] 08 p1186 N84-17727
Geology and geochronology of the southeast border of the Bitterroot Dome: Implications for the structural evolution of the Mylonitic Carapace
13 p2014 N84-23065
Structure of the Brevard Zone and Blue Ridge near Lenoir, North Carolina, with observations on oblique crenulation cleavage and a preliminary theory for irrotational structures in shear zones
13 p2014 N84-23067
Reduced to pole long-wavelength magnetic anomalies of Africa and Europe 15 p2355 N84-25132
Relation of MAGSAT anomalies to the main tectonic provinces of South America 15 p2356 N84-25137
Analysis of LANDSAT-4 TM data for lithologic and image mapping purpose 20 p3209 N84-30390
The neogene stratigraphy of the Central Florida Panhandle 21 p3441 N84-31833
The applicability of improved remote sensing data for lithological and structural mapping
23 p3770 N84-33899

LITHOSPHERE
NT EARTH CORE
NT EARTH CRUST
NT EARTH MANTLE
NT EARTH SURFACE
On gravity from SST, geoid from SEASAT, and plate age and fracture zones in the Pacific
[E84-10025] 02 p0238 N84-11559
Seismological measurements on ocean floor
11 p1670 N84-20896
Application of Magsat lithospheric modeling in South America. Part 1: Processing and interpretation of magnetic and gravity anomaly data
[E84-10115] 13 p2005 N84-23008
The structure of the Ionian lithosphere
13 p2073 N84-23435
New maps of Lakshmi Planum and eastern Aphrodite, Venus 13 p2077 N84-23457
Application of MAGSAT to lithospheric modeling in South America. Part 2: Synthesis of geologic and seismic data for development of integrated crustal models
[E84-10126] 15 p2355 N84-25128
Euro-African MAGSAT anomaly-tectonic observations
15 p2355 N84-25129
Relation of MAGSAT and gravity anomalies to the main tectonic provinces of South America
15 p2357 N84-25138
Anisotropic models of the upper mantle
[NASA-CR-173549] 16 p2521 N84-26182
Basic elements of nuclear geophysics
[INPE-3002-PRE/452] 17 p2726 N84-27350
Peridotites of the Khizen Fault (Southeastern Pacific Ocean) 18 p2857 N84-28145
Density model of upper mantle under oceans
18 p2858 N84-28147
Formation and distribution of kimberlites in the eastern Siberian platform in connection with deep structure specifics 18 p2858 N84-28151
Interpretation of gravitational anomalies on Mars, Venus and Earth 19 p2975 N84-28859
SEASAT observations of lithospheric flexure
20 p3221 N84-30463
Seismological studies of the continental lithosphere
[PB84-194752] 21 p3446 N84-31862
The shear wave velocity structure of the lithosphere in central and northern California 23 p3795 N84-34063

LITTORAL CURRENTS
U COASTAL CURRENTS

LIVER
Insulin and cortisol improve heat tolerance in isolated perfused rat liver
[AD-A133382] 07 p1042 N84-16758
Metabolic characteristics of post-exercise ketosis: The protective effects of training 10 p1549 N84-20152
An optimal control problem in the study of liver kinetics
[CTH-MATH-1984-10] 19 p3064 N84-29439

LIVESTOCK
Evaluating proposed improvements of public rangelands
[PB83-251124] 04 p0556 N84-13669

LMCR (REACTORS)
U LIQUID METAL COOLED REACTORS

LMFBR
U LIQUID METAL FAST BREEDER REACTORS

LNG
U LIQUEFIED NATURAL GAS

LOAD DISTRIBUTION (FORCES)
Load deflection characteristics of inflated structures
[NASA-CR-174585] 03 p0311 N84-12028
Assessment of load-frequency-control impacts caused by small wind turbines
[DE82-011513] 06 p0872 N84-15677
Corrosion and load transfer effects on fatigue of mechanically fastened joints. Fatigue of zero load transfer specimen
[AD-A139042] 13 p2001 N84-22985
Shaft-hub deformation analysis by means of holography
[SCHR-KONSTR.TECH-5] 19 p3028 N84-29204
Effect of radial load distribution on the first-harmonic inflow velocity of a helicopter rotor at transition speeds
[AD-A142840] 21 p3325 N84-31100

LOAD FACTORS
U LOADS (FORCES)

LOAD TESTING MACHINES
A testing machine for statistical analysis of small imperfect shells, part 1
[VTH-LR-357-PT-1] 10 p1518 N84-19938

LOAD TESTS
The analysis of crack growth data with application to trip steel
[AD-A132021] 03 p0389 N84-12535
Load control of a 300 hp tunnelling machine: Controller modification and testing for underground trials
[RR-230] 05 p0688 N84-14524
Fatigue crack propagation in Al-alloy lugs under constant amplitude and maneuver spectrum loading
[TAE-497] 06 p0857 N84-15585
Refined test methods in evaluating brittle material strengths
[AD-A133596] 08 p0861 N84-15610
Analytical and experimental investigation of soil reinforcing
[AD-A134343] 07 p0985 N84-16383
In-flight load testing of advanced shuttle thermal protection systems
[NASA-TM-86024] 08 p1115 N84-17250
Engine-transmission angular-contact ball thrust bearing endurance tests
[AD-A136264] 09 p1325 N84-18655
Long-term load performance of hardboard I-beams
[AD-A136091] 09 p1334 N84-18706
Effect of liquid tin-zinc on the drilling parameters of several alloys
[PB84-134782] 10 p1464 N84-19562
Experimental and analytical investigation of active loads control for aircraft landing gear
10 p1510 N84-19886
The behavior of a slag base pavement structure at P39/1, Erasmia under heavy vehicle simulator loading
[RP/5/82] 11 p1639 N84-20716
Study of large viscoplastic strains in cylindrical shells by method of magnetic-pulse loading
13 p1972 N84-22798
Draft standard method of test for plane-strain stress-corrosion-cracking resistance of metallic materials in marine environments
[AD-A139752] 15 p2297 N84-24785
Qualification testing of solar photovoltaic powered refrigerator freezers for medical use in remote geographic locations
[NASA-CR-168181] 15 p2361 N84-25162
Fatigue considerations in view of measured load spectra
[AD-A140221] 17 p2679 N84-27067
Fastener load tests and retention systems tests for cryogenic wind-tunnel models
[NASA-TM-85805] 19 p2993 N84-28964
A study of stiffness, residual strength and fatigue life relationships for composite laminates
[NASA-CR-172211] 20 p3146 N84-29978
Calibration of CT-4A fatigue test article, March 1983
[AD-A142880] 21 p3328 N84-31115
How some test variables affect bending, tension, and compression values for particle panel products
[AD-A143627] 23 p3761 N84-33836
Mechanical behavior of carbon-carbon composites
[NASA-CR-174767] 24 p3878 N84-34575
Mechanical properties of multi-year sea ice. Testing techniques
[AD-A144431] 24 p3935 N84-34908

LOADING
Analysis of unsteady processes caused by nonaxisymmetrical loading of finite multilayer cylinders
12 p1788 N84-21661
Review of the application of fracture mechanics: Possibilities and actual limits
[GKSS-83-E-63] 15 p2349 N84-25098
Age-related responses to de- and hyperhydration
21 p3452 N84-31905

LOADING FORCES
U LOADS (FORCES)

LOADING MOMENTS
Modeling of the transmissibility through rolling-element bearings under radial and moment loads
01 p0089 N84-10580
Computational methods for ball bearings in spacecraft
09 p1295 N84-18466
Fluid-structure interaction by the method of characteristics 10 p1510 N84-19884

LOADING OPERATIONS
Conceptual design of a robotic loader system for remote missile launchers
[AD-A141270] 18 p2802 N84-27781
Aircraft loading adapter for use with ordnance lift vehicle
[AD-D011147] 23 p3696 N84-33421

LOADING RATE
The effect of loading rate and temperature on fracture initiation toughness in a low strength steel
15 p2401 N84-25410
A plate impact experiment for studying crack initiation at loading rates K(I) approximately 10(8) MPa m/s
[AD-P003103] 16 p2466 N84-25808
Elastic-plastic deformation of pulse-loaded structures
[AD-A142350] 20 p3202 N84-30339

LOADING WAVES
U ELASTIC WAVES
U LOADS (FORCES)

LOADS (FORCES)
NT AERODYNAMIC LOADS
NT AXIAL COMPRESSION LOADS
NT AXIAL LOADS
NT BLAST LOADS
NT COMPRESSION LOADS
NT CRITICAL LOADING
NT CYCLIC LOADS
NT DYNAMIC LOADS
NT EDGE LOADING
NT GUST LOADS
NT IMPACT LOADS
NT RANDOM LOADS
NT ROLLING CONTACT LOADS
NT SHOCK LOADS
NT STATIC LOADS
NT THRUST LOADS
NT TRANSIENT LOADS
NT VIBRATORY LOADS
NT WING LOADING
An experimental investigation of a free-tip rotor configuration in a forward flight wind-tunnel test
[NASA-TM-84409] 01 p0003 N84-10018
DC-link approach to constant-frequency aircraft power
01 p0011 N84-10068
Space shuttle launch vehicle aerodynamic uncertainties: Lessons learned 01 p0019 N84-10118
Supersonic loads due to shuttle-orbiter/external-tank attachment structures 01 p0019 N84-10122

Test Report for MSFC Test No. 83-2: Pressure scaled water impact test of a 12.5 inch diameter model of the Space Shuttle solid rocket booster filament wound case and external TVC PCD
[NASA-CR-170901] 01 p0029 N84-10181
Proceedings of the 6th Annual Mechanics of Composites Review
[AD-A130750] 01 p0031 N84-10196
The engineering significance of defects in composite structures 01 p0035 N84-10222
Prestressed pavement accelerated testing program
[PB83-225763] 01 p0059 N84-10385
Spirally-reinforced high-strength concrete columns
[PB83-223297] 01 p0059 N84-10388
Time-dependent behavior of high-strength concrete sustained compressive stresses
[PB83-227041] 01 p0060 N84-10391
Heat checking in the contact zone of a face seal: A three-dimensional model of a single moving asperity
[AD-A130756] 01 p0079 N84-10513
Statistics of crack growth of a superalloy under sustained load
[AD-A130395] 01 p0095 N84-10616
Dynamic pulse buckling, theory and experiment. Handbook
[AD-A130910] 01 p0095 N84-10621
The initial design of active control systems for a flexible aircraft 02 p0171 N84-11125
Airloads on bluff bodies, with application to the rotor-induced downloads on tilt-rotor aircraft
[NASA-TM-84401] 02 p0174 N84-11142
The flexural behavior of PACSAT (passive communication satellite) in orbit
[AD-A131406] 02 p0184 N84-11195
On the optimal design of bidirectional composites
[AD-A131353] 02 p0188 N84-11221
Effects of nonlinear loads on antennas and scatterers 03 p0365 N84-12376
Bending of transversally loaded orthotropic rectangular and sector plates 03 p0387 N84-12520
On the dynamic fracture of bars, beams and plates 03 p0391 N84-12552
A model for stresses in circular magnets for toroidal fusion devices
[DE83-016535] 03 p0447 N84-12937
Preliminary results of the first static calibration of the RSRA helicopter active-isolator rotor balance system
[NASA-TM-84395] 04 p0483 N84-13178
NASTRAN flutter analysis of advanced turbopropellers
[NASA-CR-167926] 05 p0631 N84-14148
Forces on a whirling centrifugal pump-impeller 05 p0687 N84-14516
Bending of beams subjected to transverse impacts
[MRL-R-886] 05 p0692 N84-14544
The 1-dimensional structured phase transformations under prescribed loads
[AD-A132807] 05 p0736 N84-14835
Avionics concept evaluation at the force level 06 p0769 N84-15038
Static and dynamic stiffness reduction of graphite/epoxy composite laminates under fatigue loading 06 p0797 N84-15194
Composite laminate weight optimization on the HX-20
[AD-A133490] 06 p0799 N84-15207
Biaxial fatigue of graphite/epoxy + or - 45 sub s tubes 06 p0799 N84-15210
Finite element analysis of moisture and external loading effects in composites 06 p0799 N84-15211
Investigation of fatigue crack-growth resistance of aluminum alloys under spectrum loading
[AD-A133206] 06 p0806 N84-15251
Crazing and fatigue behaviour of one and two phase polymers 06 p0811 N84-15282
Orthotropic hole element 06 p0859 N84-15595
An alternative method of analysis for base accelerated dynamic response in NASTRAN 06 p0859 N84-15598
A NASTRAN DMAP procedure for calculation of base excitation modal participation factors 06 p0859 N84-15599
High altitude aerodynamic platform concept evaluation and prototype engine testing
[NASA-TM-58256] 07 p0953 N84-16182
Endurance of steel lugs with clearance-fit pins (tensile mean stress)
[ESDU-82022] 07 p1011 N84-16559
Loads and aeroelasticity division research and technology accomplishments for FY 1983 and plans for FY 1984
[NASA-TM-85740] 08 p1097 N84-17135
Airloads research study. Volume 1: Flight test loads acquisition
[NASA-CR-170409] 08 p1103 N84-17173
Airloads research study. Volume 2: Airload coefficients derived from wind tunnel data
[NASA-CR-170410] 08 p1103 N84-17174
Adhesion studies on ion plated TiN steel
[BLL-RISLEY-TR-4880-(9091.9F)] 08 p1129 N84-17341
Adaptation of two-dimensional transonic analysis code, TSFOIL, for use in modeling adaptive wall test sections 08 p1238 N84-18089
The effect of periodic overloads on flight-by-flight fatigue crack growth rates
[AD-A136407] 09 p1255 N84-18192
The strength and behavior of steel fiber-reinforced concrete under combined tension-compression loading
[AD-A136124] 09 p1334 N84-18708
Regulation of bone mass by mechanical strain
[NASA-CR-173363] 09 p1360 N84-18888
An assessment of the capability to calculate tilting prop-rotor aircraft performance, loads and stability
[NASA-TP-2291] 10 p1427 N84-19333
Evaluation of the crack growth gage concept as an individual aircraft tracking device, volume 2
[AD-A136933] 10 p1428 N84-19341
Flow processes in overexpanded chemical rocket nozzles. Part 2: Side loads due to asymmetric separation
[NASA-TM-77395] 10 p1450 N84-19471
Workhardening correlations based on state variables in some FCC metals in monotonic loadings
[DE84-004880] 10 p1461 N84-19540
Load relaxation testing at medium strain rates
[DE84-004877] 10 p1461 N84-19544
Effects of bearing deadbands on bearing loads and rotor stability
[NASA-CR-170986] 10 p1501 N84-19814
Static and dynamic behavior of mechanical components associated with electrical transmission lines 10 p1505 N84-19844
Instability of circular cylinder arrays in cross flow 10 p1506 N84-19847
The Shock and Vibration Digest, volume 15, no. 10
[AD-A136898] 10 p1506 N84-19855
Impact loading in filamentary structural composites 10 p1506 N84-19857
The Shock and Vibration Digest, volume 15, no. 11
[AD-A137065] 10 p1507 N84-19858
Great Lakes coastal geology: Stratigraphy and bluff recession along the Lake Erie coast, New York
[PB84-128933] 10 p1538 N84-20075
Effect of inspiratory muscle fatigue on perception of added loads in humans 10 p1548 N84-20150
Capacity control of screw compressor units 11 p1640 N84-20726
Reflected overpressure impulse on a finite structure
[AD-A137259] 11 p1653 N84-20792
Relaxation, regularity and operator theoretical methods for a class of problems in nonlinear elastostatics 11 p1666 N84-20871
Implementation of Nisitani's body force method for the solution of notch problems
[AD-A137690] 11 p1668 N84-20881
Evidence for the direct atmospheric forcing of mid-ocean eddies
[AD-P002656] 11 p1690 N84-21021
The corrosion-fatigue cooperative testing programme 12 p1763 N84-21497
Microstructure of aluminum alloy in early stages of spalling 12 p1783 N84-21634
Program for processing raw materials 12 p1784 N84-21642
Air- versus liquid-based solar-energy systems: A comparison of measured thermal performances
[ANL-83-45] 12 p1838 N84-21978
Matching wind turbine rotors and loads: Computational methods for designers
[DE84-006921] 12 p1843 N84-22019
Human strength capabilities for the operation of parachute ripcords and riser releases
[AD-A138328] 12 p1868 N84-22174
Present capabilities and future requirements for computer-aided geometric modeling in the design and manufacture of gas turbine 12 p1875 N84-22219
The fatigue of powder metallurgy alloys
[AD-A138714] 13 p1960 N84-22738
Dynamic stiffness of closed gas-static bearing with regulator 13 p1968 N84-22774
Study of large viscoplastic strains in cylindrical shells by method of magnetic-pulse loading 13 p1972 N84-22798
State space method for optimal design of shock absorbers with floating boundaries 13 p1998 N84-22966
CASE (Computer-Aided Structural Engineering) study of 6 major general-purpose finite element programs
[AD-A139065] 13 p2001 N84-22986
Finite element analysis of structure subjected to nonstationary load fields with contact interfaces 13 p2002 N84-22993
Effects of transverse loading on the thickness shear resonance frequencies in crystal plates 13 p2003 N84-22994
A discrete-element analysis for large deflection of thin plates: A combined effect of geometric and material nonlinearities 13 p2003 N84-22995
Compressional features in the Tharsis Region of Mars: Orientations and Timing of Deformation 13 p2090 N84-23539
Shock response spectra variational analysis for pyrotechnic qualification testing of flight hardware
[NASA-TP-2315] 14 p2115 N84-23676
Corrosion damage in metallic materials without mechanical loading 14 p2126 N84-23744
Corrosion damage with additional mechanical loading 14 p2126 N84-23745
Load-transfer criteria for numerical analysis of axially loaded piles in sand. Part 1: Load-transfer criteria
[AD-A139236] 14 p2134 N84-23786
Fundamental properties of soils for complex dynamic loadings; dynamic constitutive model fundamentals
[AD-A139358] 14 p2134 N84-23791
Antiwear additive mechanicsms in sliding contacts 14 p2154 N84-23906
The influence of a moving suspension on the behaviour of modelled helicopter underslung loads
[BU-288] 15 p2260 N84-24573
Weathering trials and new rigidity tests on protective helmets for motor cyclists
[ARL-STRUC-TECH-MEMO-372] 15 p2300 N84-24804
A microchemical derivation of the differential equations of interfacial statics. 3: Line tension 15 p2307 N84-24844
The effective behavior of inelastic composites 15 p2308 N84-24850
An expression of strain energy involving couple stresses in solids 15 p2313 N84-24880
Friction in elastohydrodynamic contacts 15 p2316 N84-24897
Studies of elastic-plastic response under high pressure shock loading 15 p2316 N84-24900
Tensile impact testing of fibre-reinforced composites 15 p2316 N84-24901
Dual clearance squeeze film damper for high load conditions
[NASA-TM-83619] 15 p2343 N84-25084
Reanalysis of mechanical structures 15 p2349 N84-25099
A study of the different solution methods for nonlinear problems
[ISD-304] 15 p2396 N84-25376
The measurement of acoustic emission parameters during hydraulic loading of the Novovorenezh AES reactor vessel VVER-1000
[DRIC-T-6998] 15 p2403 N84-25421
Temperature dependence of elastic and strength properties of T300/5208 graphite-epoxy
[NASA-CR-173616] 16 p2460 N84-25767
Dynamics of early planetary gear trains
[NASA-CR-3793] 16 p2498 N84-26027
An inductive process in automatic recording of crack propagation
[ISD-298] 16 p2502 N84-26056
Theory of exterior and harmonic eigenstrains 16 p2503 N84-26065
Propeller noise at subsonic blade tip speeds, torque and thrust force
[ESA-TT-821] 16 p2554 N84-26385
Contribution to the study of light aircraft propeller noise
[AD-B073101] 16 p2554 N84-26386
Resistivity of a 2-D electron gas under strong magnetic field using a memory function formulation
[INPE-3118-PRE/513] 16 p2558 N84-26407
Resistivity of a disordered 2-D electron gas in terms of force-force correlation function
[INPE-3065-PRE/482] 16 p2558 N84-26408
Memory function formalism applied to electronic transport in disordered systems
[INPE-3084-PRE/481] 16 p2559 N84-26418
Operational loads on B-747 aircraft: Design assumptions, actual experience and maintenance aspects
[NLR-MP-83051-U] 17 p2606 N84-26697
A device for measurement of control column forces in aircraft
[AD-A140876] 17 p2607 N84-26700
Utilization of selective mass transfer for increasing performance capability of hinges subject to heavy loads 17 p2641 N84-26898
Design of mechanical joints in composites 17 p2674 N84-27038
Integrated analysis and design of steel frames with interactive computer graphics 17 p2677 N84-27049

Plastic behavior of 304 stainless steel under plastic-strain controlled loading conditions
17 p2577 N84-27051
The role of anelastic strain in the cyclic creep behavior of a particle strengthened alloy
17 p2677 N84-27053
The stress distribution in pin-loaded orthotropic plates
17 p2678 N84-27059
Stress decay in an orthotropic half-plane under self-equilibrating sinusoidal loading
[NASA-TM-85791] 17 p2679 N84-27066
The investigation of a variable camber blade lift control for helicopter rotor systems
[NASA-CR-3503] 18 p2788 N84-27895
SPF/DB primary structure for supersonic aircraft (T-38 horizontal stabilizer)
[NASA-CR-163114] 18 p2813 N84-27860
An investigation into the probabilistic combination of quasi-static and random accelerations
[NASA-TM-82584] 18 p2852 N84-28111
Effects of voltage control in utility interactive dispersed storage and generation systems
[NASA-CR-173730] 18 p2860 N84-28211
Strength of bolted joints in laminated composites
[AD-A141826] 19 p2986 N84-28921
Methods of analyzing processes of plastic working of metal, part 1 19 p2990 N84-28948
Methods of analyzing processes of plastic working of metal, part 3 19 p2990 N84-28949
Methods of analyzing processes of plastic working of metal, part 2 19 p2990 N84-28950
Limiting load capacity and weld measurements
[ISSN-0208-5658] 19 p3033 N84-29241
The ASTRO-1 preliminary design review coupled load analysis
[NASA-TM-82587] 19 p3034 N84-29246
Three-dimensional finite-element analysis of chevron-notched fracture specimens
[NASA-TM-85798] 19 p3035 N84-29249
Synthesis of major economic studies of residential photovoltaics
[NASA-CR-173766] 19 p3049 N84-29349
Production version of the extended NASA-Langley vortex lattice FORTRAN computer program. Volume 2: Source code
[NASA-TM-83304] 19 p3073 N84-29500
Development of GAP-TAGN-PEG propellants. Part 1: Study of ingredients 20 p3143 N84-29954
Operation and calibration of the Winchanger 450 model SWECS
[DE84-009757] 20 p3237 N84-30546
Battery Energy Storage Test (BEST) facility
[DE84-012127] 20 p3237 N84-30548
Biasing and fast degaussing circuit for magnetic materials
[DE84-011281] 20 p3285 N84-30857
Development and application of an analysis of axisymmetric body effects on helicopter rotor aerodynamics using modified slender body theory
[NASA-TM-85934] 21 p3324 N84-31090
Transfer during sliding wear of selected metal systems
21 p3364 N84-31341
Evaluation of the effect of crack closure on fatigue crack growth of simulated short cracks
[NASA-TM-83778] 21 p3365 N84-31348
Television transmitting antenna of decimeter band system based on tubes 720 and 1020 mm in diameter
21 p3377 N84-31431
A method for the combination of stochastic time varying load effects 21 p3417 N84-31689
The Shock and Vibration Digest, volume 16, no. 7
[AD-A143958] 21 p3418 N84-31679
Literature review of tilting pad and turbulent hydrostatic journal bearings for nuclear main coolant pumps
21 p3418 N84-31680
User's guide: Computer program for analysis of two-dimensional beam-columns with nonlinear supports (CBNTBM)
[AD-A143170] 21 p3486 N84-31974
Development of 2 underseat energy absorbers for application to crashworthy passenger seats for general aviation aircraft
[NASA-CR-158927] 22 p3533 N84-32367
Failure analysis of a graphite/epoxy laminate subjected to bolt bearing loads
[NASA-TM-86297] 22 p3544 N84-32436
Simplifications in the simulation of mechanisms containing flexible members 22 p3607 N84-32855
On the mechanics of fatigue crack growth due to contact loading 22 p3608 N84-32859
Crack problems for bonded nonhomogeneous materials under antiplane shear loading
[NASA-CR-173892] 22 p3609 N84-32863
Design spectrum analysis in NASTRAN
22 p3609 N84-32870
Simple examples of non linear truss behavior
[AD-A143368] 22 p3611 N84-32882
Wind loading on solar concentrators: Some general considerations
[NASA-CR-173896] 22 p3616 N84-32915
Compression failure mechanisms in unidirectional composites
[NASA-TM-85834] 23 p3711 N84-33523
Study of the process of destruction of fibroconcrete slabs under a static load simulating the action of a motor vehicle's wheel on a bridge
[ISSN-0208-5658] 23 p3726 N84-33612
Characterization of open circuit voltage and capacity as a function of time 23 p3736 N84-33673
Review of LOX Bearing and Seal Materials Tester (BSMT) radial load system
[NASA-CR-171162] 23 p3756 N84-33810
Research study for effects of case flexibility on bearing loads and rotor stability
[NASA-CR-171147] 23 p3756 N84-33811
Extension of constrained incremental Newton Raphson methodologies to handling generalized thermomechanical loading fields 23 p3760 N84-33829
Stress studies in EFG
[NASA-CR-173960] 23 p3787 N84-34018
Fracture toughness of crystalline and composite superhard materials 24 p3868 N84-34516
Seizing in friction of composite materials with differing phase compositions 24 p3868 N84-34517
Structure and properties of amorphous powder material after explosive loading 24 p3870 N84-34526
Stress corrosion cracking of wrought and P/M high strength aluminum alloys
[AD-A144279] 24 p3884 N84-34606
Lamberton Robotics develops new robot to handle heavy loads 24 p3892 N84-34650
On the Skorohod representation
24 p3955 N84-35041

LOCAL GROUP (ASTRONOMY)
NT MILKY WAY GALAXY

LOCALIZATION
U POSITION (LOCATION)

LOCATION
U POSITION (LOCATION)

LOCI
On sensitivity, compensation and the approach to the asymptotes in multivariable root-loci
[RR-222] 03 p0426 N84-12795
Geometric conditions for generic structure of multivariable root-loci
[RR-227] 05 p0738 N84-14849
On systems with spectral cluster points and their relation to H sup p spaces
[RR-235] 13 p2038 N84-23222

LOCKHEED AIRCRAFT
NT C-5 AIRCRAFT
NT C-130 AIRCRAFT
NT C-140 AIRCRAFT
NT C-141 AIRCRAFT
NT L-1011 AIRCRAFT
NT P-3 AIRCRAFT
NT U-2 AIRCRAFT

LOCKHEED C-5 AIRCRAFT
U C-5 AIRCRAFT

LOCKHEED U-2 AIRCRAFT
U U-2 AIRCRAFT

LOCKING
NT LASER MODE LOCKING
Self-locking telescoping manipulator arm
[NASA-CASE-MFS-25906-1] 02 p0269 N84-11761
Applications for anaerobic adhesives, with particular reference to the replacement of conventional locking devices 09 p1291 N84-18433
Fastener load tests and retention systems tests for cryogenic wind-tunnel models
[NASA-TM-85805] 19 p2993 N84-28984
Testing and evaluation of Vespel up to 450 deg F when used in nuts and bolts as a self-locking element
[NASA-TM-86456] 21 p3412 N84-31639
Concurrency control using locks in distributed databases 22 p3670 N84-33262

LOCKS (FASTENERS)
Design, manufacture and tests of a locking and unlocking mechanism, using memory elements (vem); layout, manufacture and testing of a tracking mechanism, using memory elements for locking/unlocking and driving and being suitable for qualification (NFMM) — space flight applications
[BMFT-FB-W-84-012] 19 p3033 N84-29236

LOCOMOTION
NT WALKING
Dynamically stable legged locomotion
[AD-A136644] 09 p1363 N84-18905

LOCOMOTIVES
High power bogie for 350 km/h. Design and definition — locomotive
[MBB-UD-976-OE] 05 p0687 N84-14518
New applications for phosphoric acid fuel cells
[NASA-CR-168203] 09 p1341 N84-18757

LOFTING
FOD (Foreign Object Damage) generation by aircraft tires — probability of engine ingestion and airfield surface movements
[AD-A133191] 08 p0786 N84-15146
Some mathematical tools for a modeller's workbench
12 p1873 N84-22204

LOG PERIODIC ANTENNAS
Contending with jamming in decametric waves in an adaptive system of all-directional antennas
06 p0868 N84-15653

LOGARITHMIC RECEIVERS
An improved logarithmic amplifier circuit for PDS microdensitometers 18 p2841 N84-28034

LOGARITHMS
An iterated logarithm law result for extreme values from Gaussian sequences
[AD-A129559] 03 p0427 N84-12798
A law of the iterated logarithm for non-parametric regression function estimators
[AD-A133260] 06 p0901 N84-15847
Orbital eccentricity in a logarithmic potential
09 p1414 N84-19249
Dual maxwellian space plasma modeling by the logarithmic method
[AD-A137131] 10 p1585 N84-20387
Implementation of the sign-logarithm arithmetic FFT
[AD-A139355] 15 p2396 N84-25373
Logarithmic decrement of oscillations of low-viscosity fluid rotating inside cylindrical vessel
17 p2645 N84-26921
Improvements to the Photometric response and positional accuracy of the Yale PDS 2020G microdensitometer 18 p2840 N84-28033
On the Edgeworth expansion for the logarithm of the likelihood ratio, part 2
[CWI-MS-R8401-PT-2] 19 p3094 N84-29652
Three-dimensional circuit layouts
[AD-A143430] 22 p3588 N84-32713

LOGIC
Knowledge representation and natural-language semantics
[AD-A135476] 08 p1212 N84-17905
Program descriptions for Interactive Signal and Pattern Analysis and Recognition System (ISPARS)
[AD-A141575] 19 p3077 N84-29522

LOGIC CIRCUITS
Feasibility study for a generalized gate logic software simulator
[NASA-CR-172159] 01 p0118 N84-10765
Smarter radiation monitors for safeguards and security
[DE83-015259] 02 p0224 N84-11468
Probability expressions, with applications to fault testing in digital networks
[AD-A131367] 02 p0284 N84-11860
System hardware for the implementation of frame protocol in packet switched networks
[FUB-58-1981] 05 p0731 N84-14803
Video processor for air traffic control beacon system
[NASA-CASE-KSC-11155-1] 06 p0829 N84-15395
Analyzing the roles of descriptions and actions in open systems
[AD-A133614] 06 p0905 N84-15878
Logic simulator program 06 p0927 N84-16023
A proof rule for restoring logic circuits
[MC-IW-227/83] 07 p1000 N84-16484
GaAs FET logic at low temperatures
[AD-A135007] 08 p1150 N84-17483
Knowledge representation and natural-language semantics
[AD-A135476] 08 p1212 N84-17905
Analysis and testing of the thermal design of the electronic package in the US Army's Upgraded Logic Module (ULM)
[AD-A135996] 09 p1308 N84-18551
Multichannel interval timer
[DE84-004635] 10 p1499 N84-19795
Logic programming and knowledge base maintenance
[AD-A137062] 10 p1564 N84-20245
PLAFST programmable logic array from state table
[AD-A138466] 12 p1883 N84-22275
The design and layout of a complementary metal oxide semiconductor silicon on sapphire cell library
[AD-A138310] 12 p1914 N84-22470
The Thirteenth International Symposium on Multiple-Valued Logic
[AD-A136457] 14 p2189 N84-24115
A structured design of multiple-valued LSI/VLSI with built-in testing capability
[AD-P002328] 14 p2189 N84-24119

The new method of implementation for ternary logic system
[AD-P002332] 14 p2190 N84-24123
Micropower CMOS implementation of three-valued logic functions
[AD-P002333] 14 p2190 N84-24124
Low power 2-of-3-valued CMOS self-checking circuits
[AD-P002334] 14 p2190 N84-24125
Synthesis of multivalued logic circuits using hyperplanes
[AD-P002335] 14 p2190 N84-24126
P-valued input, Q-valued output threshold logic and its application to the synthesis of P-valued logical networks
[AD-P002336] 14 p2190 N84-24127
On the number of locations required in the content-addressable memory implementation of multiple-varied functions
[AD-P002338] 14 p2190 N84-24129
The implementation and use of multivalued logic in a VLSI environment
[AD-P002344] 14 p2191 N84-24135
Pulse-train residue arithmetic circuit using multiple-valued charge-coupled devices and its application to digital filter
[AD-P002345] 14 p2191 N84-24136
Tolerance analysis and related measurements on MVL-CCD's (Multiple-valued-Charge-Coupled Devices)
[AD-P002346] 14 p2191 N84-24137
Tabular methods for the design of CCD (Charge-Coupled Devices) multiple-valued circuits
[AD-P002347] 14 p2192 N84-24138
Synthesis method for ternary logic function based on NAND-type polypheck
[AD-P002348] 14 p2192 N84-24139
A quaternary logic encoder-decoder circuit design using CMOS
[AD-P002351] 14 p2192 N84-24142
Realization and analysis of a mask-programmable I2L multivalued logic circuit
[AD-P002352] 14 p2192 N84-24143
Logic-type Schmitt circuit using multi-valued gates
[AD-P002353] 14 p2192 N84-24144
Ternary transmission to local area networks
[AD-P002360] 14 p2193 N84-24151
Some device count comparisons for reduced control stores using MOS (Metal-Oxide Semiconductor) circuits
[AD-P002361] 14 p2193 N84-24152
A quaternary cellular array complex number multiplier
[AD-P002362] 14 p2193 N84-24153
An algebraic method for hazard analysis with the maximum number of spikes in combinational and sequential circuits
[AD-P002369] 14 p2194 N84-24160
Four-valued logic star algorithm and their applications
[AD-P002370] 14 p2194 N84-24161
Mx, A mix-valued algebra
[AD-P002371] 14 p2195 N84-24162
A method of test generation for verification of wiring correctness
[AD-P002376] 14 p2195 N84-24167
Automated design of combinational networks under specific constraints: A theorem proving approach
[AD-P002377] 14 p2195 N84-24168
Synthesis of multiple-valued logic functions based on a modular design approach
[AD-P002378] 14 p2195 N84-24169
Synthesis algorithm for minimal components in T-ulm networks
[AD-P002379] 14 p2196 N84-24170
The synthesis of ternary functions under fixed polarities and ternary I-2L circuits
[AD-P002381] 14 p2196 N84-24172
Ion implanted GaAs IC. Process technology
[AD-A139348] 14 p2242 N84-24461
LSI/VLSI (Large Scale Integration/Very Large Scale Integration) ion implanted GaAs (Gallium Arsenide) IC processing
[AD-A139676] 15 p2328 N84-24979
LSI/VLSI (Large Scale Integration/Very Large Scale Integration) ion implanted GaAs (Gallium Arsenide) IC processing. Appendix A: Feasibility analysis of Gallium-Arsenide mask programmable functions and logic arrays for high performance communications systems
[AD-A139677] 15 p2328 N84-24980
Restructurable VLSI program
[AD-A139959] 15 p2329 N84-24987
Nanosequencer digital logic controller
[NASA-CASE-NPO-16116-1] 15 p2385 N84-25306
Installation and evaluation of SPLICE
[AD-A140170] 16 p2484 N84-25933
Microelectronic components development in seventh 5-year plan described 18 p2627 N84-27947
Transformation of Ada program units into silicon
[AD-A141004] 18 p2633 N84-27986
Development of integrated digital circuits with Josephson junctions
[BMFT-FB-T-84-044] 19 p3113 N84-29777
Lightning simulator circuit parameters and performance for severe-threat, high-action-integral testing
[DE84-009065] 20 p3181 N84-30211
Nonlinear real-time optical signal processing
[AD-A142619] 20 p3300 N84-30956
High temperature electronics technology
[AD-A143571] 22 p3566 N84-32714
Test procedures and design methods for reliable large scale integrated circuits and systems
[AD-A143324] 22 p3638 N84-33061
Soviet integrated circuits in use in GDR
23 p3728 N84-33630

LOGIC DESIGN
Logic design of a shared disk system in a multi-micro computer environment
[AD-A132165] 04 p0565 N84-13662
Orbital maneuvering vehicle simulation system on-board processing logic 08 p0931 N84-16052
Knowledge representation and natural-language semantics
[AD-A135476] 08 p1212 N84-17905
Journal on Numerical Methods and Computer Applications (selected articles)
[AD-A134752] 08 p1220 N84-17967
File searching problems in logic programming systems
[AD-A136522] 09 p1367 N84-18923
Operational and functional description of the AERA packages
[AD-A136852] 10 p1426 N84-19326
Parallel logic programming and ZMOB and parallel systems software and hardware
[AD-A137068] 10 p1564 N84-20246
The design and layout of a complementary metal oxide semiconductor silicon on sapphire cell library
[AD-A138310] 12 p1914 N84-22470
Software engineering for user interfaces
[AD-A136937] 13 p2029 N84-23155
Some difficulties developing a large-scale research grade CAD program for a production environment
[DE84-005549] 14 p2142 N84-23845
The Thirteenth International Symposium on Multiple-Valued Logic
[AD-A136457] 14 p2189 N84-24115
Completeness for uniformly delayed circuits
[AD-P002325] 14 p2189 N84-24116
A study of reduced dependence in multi-valued sequential machines
[AD-P002326] 14 p2189 N84-24117
A preprocessing procedure method in ternary clause selection
[AD-P002327] 14 p2189 N84-24118
On the number of locations required in the content-addressable memory implementation of multiple-varied functions
[AD-P002338] 14 p2190 N84-24129
A fast complementation algorithm for sum-of-products expressions of multiple-valued input binary functions
[AD-P002339] 14 p2191 N84-24130
The simplification of multiple-valued symmetric functions
[AD-P002340] 14 p2191 N84-24131
Tolerance analysis and related measurements on MVL-CCD's (Multiple-valued-Charge-Coupled Devices)
[AD-P002346] 14 p2191 N84-24137
Tabular methods for the design of CCD (Charge-Coupled Devices) multiple-valued circuits
[AD-P002347] 14 p2192 N84-24138
A quaternary logic encoder-decoder circuit design using CMOS
[AD-P002351] 14 p2192 N84-24142
Realization and analysis of a mask-programmable I2L multivalued logic circuit
[AD-P002352] 14 p2192 N84-24143
Logic-type Schmitt circuit using multi-valued gates
[AD-P002353] 14 p2192 N84-24144
Image processing algorithms for a multiple-valued array processor
[AD-P002359] 14 p2193 N84-24150
Ternary transmission to local area networks
[AD-P002360] 14 p2193 N84-24151
Some device count comparisons for reduced control stores using MOS (Metal-Oxide Semiconductor) circuits
[AD-P002361] 14 p2193 N84-24152
A unified approach to composite MVL with monotonic subfunction
[AD-P002368] 14 p2194 N84-24159
Portable environment for research in automated reasoning
[DE84-009212] 15 p2396 N84-25372
Nonvolatile, electrically erasable programmable ROM
[BMFT-FB-T-84-008] 15 p2412 N84-25482
Minimum operational performance standards for traffic alert and collision avoidance system (TCAS) airborne equipment, volume 1
[RTCA/DO-185-VOL-1] 16 p2445 N84-25685
Minimum operational performance standards for traffic alert and collision avoidance system (TCAS) airborne equipment, volume 2
[RTCA/DO-185-VOL-2] 16 p2445 N84-25686
Theses and remarks of future development of calculators 16 p2549 N84-26359
Logic machine architecture inference mechanisms: Layer 2 user reference manual release 2.0
[DE84-012115] 20 p3267 N84-30728
A simple algorithm for the metric traveling saleeman problem 22 p3573 N84-32631
Multi-valued LSI/VLSI logic design
22 p3580 N84-32670
Rehosting the theorem prover
[AD-A144356] 24 p3946 N84-34967

LOGIC NETWORKS
U LOGIC CIRCUITS

LOGIC PROGRAMMING
LOGLISP sequential forms with resolution semantics
[AD-A144413] 24 p3946 N84-34969

LOGICAL ELEMENTS
A natural language interface for a PROLOG database
[AD-A138071] 12 p1880 N84-22254
P-valued input, Q-valued output threshold logic and its application to the synthesis of P-valued logical networks
[AD-P002336] 14 p2190 N84-24127
Interactive decision analysis and modelling
[CSIR-TWISK-294] 15 p2400 N84-25403

LOGISTICS
NT SPACE LOGISTICS
Bulk availability
[AD-A129863] 01 p0129 N84-10845
Models of maintenance resources interaction: Peacetime operations
[AD-A131379] 03 p0457 N84-13011
An approach to logistic problems by the L-transform method 06 p0906 N84-15884
Productivity improvement in a jobbing shop
09 p1293 N84-18449
The Army study program fiscal year 1984 report, volume 1
[AD-A136213] 09 p1398 N84-19130
The Army study program fiscal year 1984 report, volume 2
[AD-A136214] 09 p1398 N84-19131
Logistics engineering design techniques for fault-tolerant avionics systems
[AD-A137456] 10 p1430 N84-19349
Mobilization and defense management technical reports series. Management implications of industrial support capabilities for Space Shuttle operations
[AD-A137460] 10 p1438 N84-19390
Electronics/electrical manufacturing industry research needs
[PB84-122969] 11 p1648 N84-20774
Local bifurcation of a logistic delay map
[MC-TW-246/83] 13 p2035 N84-23205
Increasing spares competition in AFLC (Air Force Logistics Center)
[AD-P002775] 13 p2054 N84-23322
Policy initiatives to achieve readiness and support objectives
[AD-P002804] 13 p2058 N84-23350
The new MIL-STDs (Military standard) 1388
[AD-P002806] 13 p2059 N84-23352
The life cycle cost of integrated logistic support
17 p2652 N84-26962
The database management module of the SPLICE system
[AD-A132795] 18 p2945 N84-28671
Global bifurcation of a logistic delay map
[CWI-AM-R8402] 19 p3092 N84-29634
Entire functions for the logistic map 2
[CWI-AM-R8404] 19 p3092 N84-29636
Increased readiness through modularity
[AD-P003491] 21 p3514 N84-32257
System requirements and characteristics, book 3
[NAS 1.15:86652-BK-3] 23 p3698 N84-33440
System operations, book 6
[NAS 1.15:86652-BK-6] 23 p3699 N84-33442
The nature of the critical and strategic materials problem 23 p3702 N84-33466

LOGISTICS MANAGEMENT
NT INVENTORY CONTROLS
NT INVENTORY MANAGEMENT
RIM-AIR (Repairable Integrated Model for aviation) study
[AD-A131141] 02 p0169 N84-11113
Integrated logistic supportability (Aviation materiel)
[AD-A132367] 04 p0478 N84-13146

Technical and economic analysis of the planned visual display terminal employment for the Stock Point Logistics Integrated Communications Environment (SPLICE)
[AD-A133642] 05 p0719 N84-14711
Rivista Tecnica Selenia, volume 8, number 2, 1982
06 p0906 N84-15882
An approach to logistic problems by the L-transform method 06 p0906 N84-15884
Lessons learned--advanced attack helicopter
[AD-A135521] 08 p1104 N84-17177
An approach to the design of a management information system: Development procedure for the Indonesian defense logistics staff
[AD-A134974] 08 p1240 N84-18106
Automated storage and retrieval systems--a consolidation of guidance for project management and implementation
[AD-A135571] 09 p1404 N84-19175
A multi-period repair parts inventory model for a naval air rework facility
[AD-A136873] 10 p1419 N84-19280
Consolidation of DOD bidder's mailing list application
[AD-P002752] 13 p2050 N84-23269
1982 US Army Materiel Development and Readiness Command (DARCOM) integrated logistic support (ILS) study finding on contracting for ILS
[AD-P002805] 13 p2058 N84-23351
Central Demand Data Base (CDDB) End Item Code (EIC)
[AD-P002807] 13 p2059 N84-23353
Improved management of support resources
[AD-P002808] 13 p2059 N84-23354
Quality assurance - Air Force Logistics Command
[AD-P002816] 13 p2060 N84-23361
A development of logistics management models for the Space Transportation System
[NASA-CR-173504] 14 p2113 N84-23664
Naval aviation IMA repair capability: A readiness to resources approach
[AD-A140465] 16 p2434 N84-25612
An analysis of naval aviation configuration status accounting
[AD-A140473] 16 p2565 N84-26460
AN/TPN-19 improvements program management plan
[AD-A140728] 17 p2605 N84-26690
Increasing competition for spares within AFLC (Air Force Logistics Command)
[AD-A140751] 17 p2770 N84-27588
Space Station commercial user development
[NASA-CR-173688] 18 p2798 N84-27756
Aircraft Spare Stockage Methodology (aircraft spares) study
[AD-A142259] 19 p2955 N84-28730
Concurrency of design criteria: A key to trainer readiness
[AD-P003454] 21 p3509 N84-32231
Parts on demand: Evaluation of approaches to achieve flexible manufacturing systems for Navy parts on demand, volume 1
[AD-A143248] 22 p3604 N84-32830

LONG DURATION EXPOSURE FACILITY

Space Shuttle inflatable training articles
[NASA-CR-171761] 11 p1622 N84-20618
Space Shuttle inflatable training articles. Appendices D and I: Drawings
[NASA-CR-171762] 11 p1622 N84-20619
Certification vibration tests, SD802 materials experiment
[AD-A138547] 13 p2001 N84-22982
Long Duration Exposure Facility (LDEF). Mission 1 Experiments
[NASA-SP-473] 15 p2270 N84-24632
Introduction to Long-Duration Exposure Facility
15 p2270 N84-24633
LDEF thermal measurements system (P0003)
15 p2274 N84-24654
Exposure to space radiation of high-performance infrared multilayer filters and materials technology experiments (A0056) 15 p2277 N84-24678
Effect of space exposure on pyroelectric infrared detectors (A0135) 15 p2278 N84-24679
Thin metal film and multilayers experiment (A0138-3)
15 p2278 N84-24680
Vacuum-deposited optical coatings experiment (A0138-4) 15 p2278 N84-24681
Ruled and holographic gratings experiment (A0138-5)
15 p2278 N84-24682
Optical fibers and components experiment (A0138-7)
15 p2278 N84-24683
Passive exposure of Earth radiation budget experiment components (A0147) 15 p2278 N84-24684
Effects of solar radiation on glasses
15 p2279 N84-24685
Study of factors determining the radiation sensitivity of quartz crystal oscillators (A0189)
15 p2279 N84-24686
Investigation of the effects of long-duration exposure on active optical system components (S0050)
15 p2279 N84-24687
Fiber optic data transmission experiment (S0109)
15 p2279 N84-24688
Testing of coatings in space, Long Duration Exposure Facility (LDEF)
[BMFT-FB-W-84-017] 21 p3353 N84-31269

LONG DURATION SPACE FLIGHT

Study of cardiovascular system during long-term spaceflights 02 p0259 N84-11694
Changes in cardiac output and orthostatic stability of cosmonauts 02 p0259 N84-11697
Studies of neutron and proton nuclear activation in low-Earth orbit 2 06 p0930 N84-16041
Bone mineral analysis of rat vertebrae following space flight: COSMOS 1129
[AD-A133178] 07 p1042 N84-16757
USSR report: Space
[JPRS-USP-84-001] 09 p1263 N84-18247
Manned flight chronology 09 p1263 N84-18248
Beregovoy on cosmonaut training
09 p1264 N84-18251
Development of a prototype experiment for treating CELSS and PCELSS wastes to produce nutrients for plant growth
[NASA-CR-173167] 09 p1277 N84-18341
Lyakhov and Aleksandrov work with Pion experiment on Salyut-7 12 p1774 N84-21567
Materials study experiments with Elektrotopograf on Salyut-7 12 p1774 N84-21568
Behavioral biology of mammalian reproduction and development for a space station
[NASA-CR-173493] 13 p2019 N84-23092
USSR report: Space Biology and Aerospace Medicine, volume 18, no. 2, March - April 1984
[JPRS-USB-84-004] 15 p2374 N84-25247
Main results of medical studies on Salyut-6--Soyuz program 15 p2375 N84-25249
Blood plasma amino acid levels in cosmonauts before and after 175-day mission aboard Salyut-6
15 p2375 N84-25250
Evaluation of changes in human axial skeletal bone structures during long-term spaceflights
15 p2375 N84-25251
Study of erythrocyte adhesion in cosmonauts
15 p2375 N84-25252
Sanitary and hygienic features of cabin environment in Salyut-7 orbital station 15 p2375 N84-25253
Habitability and human productivity issues confronting the Air Force Space Command
[AD-P003266] 18 p2906 N84-28431
A systematic comparative analysis of conditions analogous to long-duration space missions
[AD-P003353] 18 p2912 N84-28489
Medical research program of 'Soyuz T-10' crew
19 p2971 N84-28826
Comet studies, medical research on 'Salyut-7'
19 p2971 N84-28832
Feoktistov: Space program ready for manufacturing shops in orbit 19 p2971 N84-28833
Deputy flight director Blagov on 211-day flight of Berezovoy and Lebedev 19 p2971 N84-28834
Food specialists discuss cosmonaut diet
19 p2971 N84-28835
Effect of living conditions in confined space on formation of bacterial aerosol 20 p3255 N84-30659

LONG RANGE NAVIGATION

U LORAN

LONG RANGE WEATHER FORECASTING

Estimating long-term mean winds from short-term wind data
[DE83-017417] 03 p0412 N84-12693
The management of atmospheric resources in food production
[INPE-3121-PRE/514] 16 p2528 N84-26231
A system for managing meteorological data
[INPE-3029-PRE/466] 17 p2733 N84-27373
Introduction of a finite-element boundary layer model into a regional forecasting model, appendix L
18 p2885 N84-28307
Parameterization of the ABL and OBL in a GFDL model, appendix M 18 p2885 N84-28308

LONG TERM EFFECTS

Evaluation and prediction of long-term environmental effects of nonmetallic materials, second phase
[NASA-CR-170915] 02 p0244 N84-11595
Long term evaluation of the effects of shale oil produced JP-4 on aircraft construction materials
[AD-A131665] 03 p0331 N84-12161
Estimating long-term mean winds from short-term wind data
[DE83-017417] 03 p0412 N84-12693
Geologic disposal of radioactive waste, 1983
[DE84-002890] 07 p1074 N84-16982
A new dimension in space experimentation
[NASA-NF-140] 09 p1109 N84-17210
Auxiliary propulsion 09 p1268 N84-18283
Cells, embryos and development in space
09 p1356 N84-18882
In vitro seed to seed growth on clinostats
09 p1356 N84-18883
Effects of long-term low-level radiofrequency radiation exposure on rats. Volume 3: SAR (Specific Absorption Rate) in rats exposed in 2450-MHz circularly polarized waveguide
[AD-A135376] 09 p1361 N84-18890
Albedo of the Sahara 10 p1534 N84-20052
Sustained physical activity in diverse situations: Metabolic and hormone data 11 p1698 N84-21077
Photodeposition of nitride insulators on 3-5 substrates
[NASA-CR-173393] 12 p1797 N84-21720
Design for and efficient dynamic climate model with realistic geography 12 p1856 N84-22092
Long-term dynamical stability and transition in a spectral model 12 p1856 N84-22094
Global energy and CO2-induced climate change
[PB84-145895] 12 p1862 N84-22131
Effects of long-term low-level radiofrequency radiation exposure on rats. Volume 5: Evaluation of the immune system's response
[AD-A138535] 14 p2184 N84-24087
Space environment effects on fiber optics systems
15 p2279 N84-24689
Space environment effects (M0006)
15 p2279 N84-24690
Effects of surface chemistry on hot corrosion life
[NASA-CR-174683] 15 p2295 N84-24774
Report to the Congress on ocean pollution
[PB84-166788] 15 p2374 N84-25246
Some psychological consequences of prolonged social isolation 15 p2376 N84-25257
Effects of long-term exposure to low positive temperatures on cold-induced vasodilation
18 p2896 N84-28371
Effects of long-time elevated temperature exposures on hot-isostatically-pressed power-metallurgy Udimet 700 alloys with reduced cobalt contents
[NASA-TM-83632] 19 p2965 N84-28917
Assessing the impact of climatic change in cold regions
[IIASA-SR-84-1] 19 p3057 N84-29394
Effects of long-term low-level radiofrequency radiation exposure on rats. Volume 6: Hematological, serum chemistry, thyroxine, and protein electrophoresis evaluations
[AD-A141124] 19 p3063 N84-29434
Residual-strength tests of L-1011 vertical fin components after 10 and 20 years of simulated flight service 20 p3145 N84-29970
Land biology 20 p3218 N84-30440
Effect of high ammonia content in pressure chamber atmosphere on human adrenocortical system function
20 p3255 N84-30658
Measurement and modification of sensorimotor system function during visual-motor performance
[AD-A142919] 21 p3461 N84-31947
Long-term creep of copper at cryogenic temperatures
23 p3716 N84-33559
Long Term Materials Test Program
[DE84-014791] 23 p3719 N84-33579
Related studies in long term lithium battery stability
23 p3736 N84-33676
Effects of prolonged weightlessness on orchidaceae proteins 23 p3805 N84-34130
Large scale tropical heat sources and global atmospheric energy propagation associated with droughts in Northeast Brazil
[INPE-3227-PRE/578] 24 p3918 N84-34806

LONG WAVE RADIATION

NIMBUS-ERB instrument study
[NASA-CR-165922] 02 p0222 N84-11459
Analysis of longwave radiation for the Earth-atmosphere system
[NASA-CR-173155] 08 p1143 N84-17437
Determination of the planetary radiation budget from TIROS-N satellites
[PB84-100916] 08 p1189 N84-17748
On the use of narrow band infrared channels to determine the outgoing long wave flux --- satellite radiometry 10 p1534 N84-20051
Long wave radiance to space and net flux at the surface 10 p1535 N84-20056
Longwave radiation parameterization for UCLA/GLAS GCM
[NASA-TM-86072] 11 p1681 N84-20971
Development and preliminary tests of a new long-wave radiation parameterization 12 p1857 N84-22097
Dissociation of amino acid-DNA complexes under influence of long-wave UV light
20 p3258 N84-30660

LONG WAVES (METEOROLOGY)
U PLANETARY WAVES
LONGERONS
Latching mechanism for deployable-restowable columns
[NASA-CASE-LAR-13169-1] 15 p2343 N84-25063
Characterization of a sample of aluminum alloy longeron in 7050 T73652 of Alcoa origin. Summary of test number MO 570300 18 p2794 N84-27729
LONGITUDE
Non-Hertzian rolling contact with longitudinal creepage 15 p2315 N84-24694
A directory of European, Middle Eastern, and North African coastal ground control points for mapping satellite images
[AD-A142019] 20 p3228 N84-30512
LONGITUDE MEASUREMENT
Geodetic astronomy 10 p1519 N84-19945
Test of a system for positioning: Sensitron
[FOA-C-20519-D8] 15 p2336 N84-25023
LONGITUDINAL CONTRCL
An integrated AFCS for the "PROFILE"-mode 03 p0317 N84-12069
Flying qualities experiments of rate command/attitude hold systems in the HFB 320 in-flight simulator
[DFVLR-FB-83-25] 06 p0792 N84-15163
Functional integration of vertical flight path and speed control using energy principles 11 p1618 N84-20588
L-1011 testing with relaxed static stability 11 p1618 N84-20591
Design of longitudinal control laws for the X-29A backup analog flight control system
[AD-A137814] 11 p1619 N84-20601
A study of helicopter gust response alleviation by automatic control
[NASA-TM-85870] 14 p2111 N84-23655
An advanced pitch change mechanism incorporating a hybrid traction drive
[NASA-TM-83709] 16 p2433 N84-25605
Computer program to simulate digital computer based longitudinal flight control laws in a high performance aircraft
[AD-A140143] 16 p2451 N84-25719
Pitch control of a satellite using stabilizing flaps
[INPE-3185-PRE/550] 21 p3349 N84-31246
Development and flight evaluation of an augmented stability active controls concept with a small tail
[NASA-CR-173660] 22 p3537 N84-32395
LONGITUDINAL STABILITY
Power effects on the longitudinal characteristics on single-engine propeller-driven aircraft
[ARL-AERO-REPT-157] 04 p0483 N84-13174
A wind tunnel investigation to determine dominant forebody strake design characteristics for an F-15 equipped with conformal fuel tanks
[AD-A136912] 10 p1421 N84-19292
L-1011 testing with relaxed static stability 11 p1618 N84-20591
On the stick-free longitudinal dynamic stability of a general aviation aircraft equipped with an all-movable horizontal tail 18 p2797 N84-27748
In-flight investigation of longitudinal flying qualities criteria
[AD-A143614] 23 p3695 N84-33419
LONGITUDINAL WAVES
NT PLANE WAVES
Resonant scattering of waves in random particulate composites 15 p2310 N84-24861
LONGSHORE CURRENTS
U COASTAL CURRENTS
LOOP ANTENNAS
Loop gain and circuit parameters for residual carrier tracking in the advanced DSN block V receiver 10 p1474 N84-19625
Connecticut ELF (Extremely Low Frequency) field measurements, May to July 1977
[AD-A137416] 10 p1480 N84-19668
An experimental investigation of the improvement in the reception of TM (Transverse Magnetic)-polarized LF (Low-Frequency) waves with a two-element spaced array
[AD-A142478] 20 p3175 N84-30159
Finite-element-analysis of fields radiated from ICRF antenna
[IPPJ-675] 20 p3301 N84-30965
The concept of the Low Intermediate Frequency Translation Loop (LIFTL) and its application on a CO2 laser intersatellite data link system 24 p3905 N84-34733
LOOPS
The MHD stability of inertia-tied Z-pinches with application to solar coronal loops 04 p0596 N84-13932
Loop coalescence in flares and coronal X-ray brightening
[DE83-013070] 04 p0621 N84-14099
Hardware-in-the-loop simulation techniques used in the development of the Sea Harrier avionic system 06 p0774 N84-15071
Simulation of natural convection in a rectangular loop using finite elements
[DE84-003477] 08 p1160 N84-17550
Processor-controlled timing module for LORAN-C receiver
[NASA-CR-175424] 11 p1604 N84-20504
LORAN
NT LORAN C
Position determination with Loran-C triplets using the Hewlett-Packard HP-67C, the Sharp PC-1500 (TRS-80 PC-2) or the Radio Shack TRS-80 model 100 portable computers
[AD-A137009] 10 p1426 N84-19327
LORAN C
Joint University Program for Air Transportation Research, 1982
[NASA-CP-2285] 02 p0167 N84-11099
Investigation of air transportation technology at Ohio University, 1982 02 p0167 N84-11100
Enhanced character sizes for the VDM-1 video display board 02 p0168 N84-11101
RF front end interface and AGC modification 02 p0168 N84-11102
Preliminary description of the area navigation software for a microcomputer-based Loran-C receiver 02 p0168 N84-11103
Investigation of air transportation technology at MIT 02 p0168 N84-11104
Lateral runway approach guidance using Loran-C 02 p0168 N84-11105
Relative-datum Loran navigation 02 p0168 N84-11107
Processor-controlled timing module for LORAN-C receiver
[NASA-CR-175424] 11 p1604 N84-20504
A micro-computer based system to compute magnetic variation
[NASA-CR-173376] 11 p1604 N84-20506
LORAN-C signal stability study: Northeast and southeast U.S.
[AD-A137628] 11 p1604 N84-20508
CONUS Loran-C error budget: Flight test
[AD-A139871] 15 p2259 N84-24568
A survey of state-of-the-art LORAN-C receivers
[AD-A144199] 24 p3853 N84-34434
LORENTZ FORCE
Dynamics of itinerant ferromagnets above T sub c
[DE84-002695] 15 p2402 N84-25420
LORENTZ TRANSFORMATIONS
Deuteron forward photodisintegration: Meson currents and relativity
[DE84-001314] 07 p1072 N84-16968
The Lorentz Transformation and the radar Doppler equation
[AD-A137901] 11 p1643 N84-20745
LOS ALAMOS TURRET REACTOR
U HIGH TEMPERATURE NUCLEAR REACTORS
LOSSES
Information loss caused by noise in models for dichotomous items
[AD-A131369] 02 p0280 N84-11834
The effects of dehydration on peripheral cooling
[AD-A130838] 06 p0687 N84-15767
Secondary flows and losses in a turbine cascade 07 p0956 N84-16203
Experimental verification of an endwall boundary layer prediction method 07 p0958 N84-16211
Extra losses in the inductor windings of induction heaters and electric machines
[BLL-OA-TRANS-3114-(6196.3)] 09 p1306 N84-18534
Intrinsic and extrinsic properties of fiber optic sensor materials
[AD-A135693] 09 p1389 N84-19072
Design optimization studies for nonimaging concentrating solar collector tubes
[DE84-001368] 12 p1843 N84-22017
Estimating detection range and range loss looking through windshields and Head-Up Displays
[AD-P003161] 17 p2588 N84-26592
Numerical and analytical studies of steady detonation waves with expansion losses
[AD-A142601] 20 p3184 N84-30232
Calculation of hydraulic friction losses in dc motors filled with liquid dielectric 21 p3380 N84-31450
Refueling considerations for liquid-hydrogen fueled vehicles
[DE84-012623] 22 p3562 N84-32557
A study of the high frequency limitations of series resonant converters
[NASA-CR-173868] 22 p3581 N84-32678
Characterization of voltage losses during high-intensity current pulses in reactive, porous electrodes of molten salt cells
[DE84-012112] 22 p3589 N84-32730
Thermal analysis of a planetary transmission with spherical roller bearings operating after complete loss of oil
[NASA-TP-2367] 22 p3603 N84-32824
Analytic models for radiation induced loss in optical fibers
[AD-A144630] 24 p3964 N84-35100
LOSSY MEDIA
An analysis of the coax-fed monopole in a general medium
[AD-A137981] 12 p1811 N84-21805
Wave attenuation and mode dispersion in a waveguide coated with lossy dielectric material
[NASA-CR-173820] 20 p3172 N84-30145
LOST WAX PROCESS
U INVESTMENT CASTING
LOTS CARGO SHIPS
U CARGO SHIPS
LOUDNESS
The loudness of complex noise consisted of impact sound and steady noise 23 p3741 N84-33711
LOUDSPEAKERS
A study on sound guidance for evacuation: Effect of megaphoned evacuation guidance in smoke 04 p0512 N84-13356
Optical methods of measuring loudspeaker diaphragm movement
[BBC-RD-1983/13] 04 p0517 N84-13396
The physical and psychological factors governing sound-image quality
[NHK-SERIAL-298] 15 p2403 N84-25424
LOUISIANA
Land cover change monitoring within the east central Louisiana study site: A case for large area surveys with LANDSAT multispectral scanner data
[E84-10031] 02 p0238 N84-11562
Progress in the scene-to-map registration investigation 03 p0394 N84-12572
Base line for determining local, small-scale vertical movements in Louisiana
[DE84-002569] 05 p0704 N84-14619
Analysis of data acquired by synthetic aperture radar over Dade County, Florida, and Acadia Parish, Louisiana
[E84-10067] 06 p0865 N84-15636
Water resources data for Louisiana, water year 1982. Volume 1: Central and Northern Louisiana
[PB84-116546] 09 p1339 N84-18750
Analysis of Sweet Lake geopressured-geothermal aquifer
[DE84-006053] 12 p1836 N84-21972
The development of a geopressured energy management information and analysis system in support of research planning: Third year
[PB84-174481] 16 p2511 N84-26116
LOUVERS
Eight years of in orbit experience with the HELIOS solar probe thermal control subsystem 10 p1446 N84-19445
Solar concentrator protective system
[NASA-CASE-NPO-15662-1] 18 p2867 N84-28204
Materials for Advanced Turbine Engines (MATE): Project 3: Design, fabrication and evaluation of an oxide dispersion strengthened sheet alloy combustor liner
[NASA-CR-174691] 22 p3554 N84-32504
LOVE WAVES
Waveform inversion of mantle Love waves: The born seismogram approach
[NASA-CR-174483] 02 p0248 N84-11622
Anisotropic models of the upper mantle
[NASA-CR-173549] 16 p2521 N84-26182
LOW ALLOY STEELS
U HIGH STRENGTH STEELS
LOW ALTITUDE
Low altitude simulator training: A-10 aircraft
[AD-A130794] 01 p0016 N84-10106
Evaluation of controlling low altitude aerial photography using high altitude aerotriangulation 02 p0234 N84-11539
Some comments on the hazards associated with manoeuvring flight in severe turbulence at high speed and low altitude 06 p0776 N84-15089
A helicopter flight investigation of roll-control sensitivity, damping and cross coupling in a low altitude lateral maneuvering task
[NASA-TM-84376] 07 p0959 N84-16216
Visual cues in the simulation of low-level flight
[AD-A135461] 08 p1202 N84-17839
Thermal control of tethered satellite in a very low altitude aerodynamic mission 10 p1446 N84-19444
Terrain variables improve modeling of Richardson numbers less than unity in the lower atmosphere
[AD-A137926] 11 p1671 N84-20906

A study of low energy electron precipitations and auroral phenomena by using the USAF polar orbiting satellites
[AD-A137688] 11 p1682 N84-20979
Estimation of the flight parameters of low flying aircraft using the radiated noise
[LFD-211] 15 p2259 N84-24569
The effect of a low-altitude nuclear burst on millimeter wave propagation 15 p2323 N84-24947
Equipment for measuring the distance of satellite in low orbit
[INPE-3126-PRE/517] 16 p2455 N84-25739
T-38 student windshield birdproofing efforts utilizing metal and composite materials for aft arch reinforcement
[AD-P003189] 17 p2590 N84-26602
Synthesis of devices for optimum processing of signals in low-altitude radio altimeter 17 p2630 N84-26826
Low frequency electric and magnetic noise along the auroral field lines
[NASA-CR-173641] 17 p2727 N84-27358
Perceptual factors in low altitude flight
[AD-P003329] 18 p2911 N84-28460
Missile system for low altitude air defence 21 p3351 N84-31255
Calculation of low altitude electromagnetic pulses in the first moments — after a nuclear explosion
[SNIAS-841-422-105] 21 p3388 N84-31503
Low-Altitude Database Development Evaluation and Research (LADDER)
[AD-P003468] 21 p3511 N84-32243
A laser image generation system for helicopter Nap-Of-the-Earth (NOE) flight training
[AD-P003481] 21 p3512 N84-32248

LOW ASPECT RATIO
Experimental measurements of wake characteristics of low aspect-ratio delta and flapped-plate planforms
[AD-A130398] 01 p0004 N84-10026
Low aspect ratio wing/body vortex interaction at large angles of pitch and yaw 02 p0173 N84-11140
Equilibrium studies for low-aspect-ratio torsatrons
[DE84-002264] 06 p0920 N84-15979
Performance of a high-work low aspect ration turbine tested with a realistic inlet radial temperature profile
[NASA-TM-83655] 15 p2262 N84-24589
Low aspect ratio turbine design at Rolls-Royce 19 p3023 N84-29169

LOW ASPECT RATIO WINGS
NT DELTA WINGS
Effects of blowing spanwise from the tips of low-aspect ratio wings of varying taper ratio, with application to improving STOL capability of fighter aircraft
[AD-A135688] 09 p1252 N84-18175
Numerical simulation of the tip vortex off a low-aspect-ratio wing at transonic speed
[NASA-TM-85932] 13 p1926 N84-22535
Theory of hypersonic three-dimensional flow of nonsteady gas stream with relaxation past thin wing with arbitrary aspect ratio 13 p1971 N84-22791

LOW CARBON STEELS
Structural anomaly in composite material
[BLL-M-35170-(5828.4)] 01 p0030 N84-10187
Magnetic properties of iron and low-carbon steel for soft magnet application
[AD-A134120] 05 p0653 N84-14292
Fracture resistance of hardened and tempered pipes of 16GFR steel
[BLL-M-35268-(5828.4)] 06 p0857 N84-15584
Fatigue resistance and microstructure of experimental dual phase Fe/2Si/0.1C steel
[DE84-004314] 11 p1635 N84-20692

LOW COST
Low-cost stator material for M734 alternators
[AD-A126804] 07 p0997 N84-16464
Computerised optical fibre characterisation 11 p1727 N84-21266
Low cost acetylene terminated polymers
[AD-A140040] 19 p2998 N84-28996
Advanced battery development in the US
[DE84-010505] 20 p3179 N84-30190
Broadband cavity-backed slot using printed circuit technology
[AD-P003508] 21 p3384 N84-31476
Low cost thermal protection system processing
[AD-D011142] 22 p3544 N84-32434
Reducing grating lobes due to subarray amplitude tapering
[AD-A143644] 23 p3730 N84-33644

LOW DENSITY GASES
U RAREFIED GASES

LOW DENSITY MATERIALS
Crystalline-state extrusion of low density polyethylenes
[AD-A142017] 20 p3161 N84-30075

LOW DENSITY WIND TUNNELS
Design study for a low density wind tunnel
[INPE-3072-TDL/160] 17 p2610 N84-26707

LOW FREQUENCIES
NT VERY LOW FREQUENCIES
Internal noise of low-frequency preamplifiers
[AD-A131532] 02 p0213 N84-11398
Low-frequency Raman scattering from vitreous and molten B2O3
[AD-A132698] 05 p0649 N84-14269
Low frequency Raman spectra of V-B2O3 as a function of temperature and pressure
[AD-A132699] 05 p0649 N84-14270
Ionospheric propagation in the L. F. broadcasting band
[BBC-RD-1983/15] 05 p0665 N84-14375
The local wavenumber spectrum and its applications in turbulence and noise 05 p0672 N84-14417
Study of 1/f noise in solids
[AD-A133856] 05 p0753 N84-14939
Low-frequency switching voltage regulators for terrestrial photovoltaic systems
[NASA-TM-83625] 16 p2483 N84-25926
The composition of interstellar grain mantles 16 p2570 N84-26490
Low frequency electric and magnetic noise along the auroral field lines
[NASA-CR-173641] 17 p2727 N84-27358
Low-frequency radio navigation system
[NASA-CASE-NPO-15264-1] 18 p2791 N84-27713
Interfering elastic wave components 18 p2862 N84-28170
Effect of constant and low-frequency magnetic fields on biological systems 20 p3258 N84-30679
Low frequency ac waveform generator
[DE84-014310] 23 p3743 N84-33726
Low radio frequency extragalactic variable sources 23 p3845 N84-34390
Meteor showers effects in the low terrestrial ionosphere detected at VLF ionosonde and long distance propagation paths
[INPE-3242-PRE/588] 24 p3990 N84-35246

LOW FREQUENCY BANDS
NT VERY LOW FREQUENCIES

LOW GRAVITY
U REDUCED GRAVITY

LOW GRAVITY MANUFACTURING
Commercialization of opportunities for materials processing in low gravity
[NASA-CR-170953] 06 p0793 N84-15165
Separation processes during binary monotectic alloy production
[NASA-TM-82579] 15 p2295 N84-24773
Opportunities for the chemical industry in space, part 1
[NASA-CR-173594] 16 p2462 N84-25776
Ultralight reactive metal foams produced as structural shapes in space: System design 18 p2801 N84-27777
Feoktistov: Space program ready for manufacturing shops in orbit 19 p2971 N84-28833
Fundamentals of Alloy Solidification Applied to Industrial Processes
[NASA-CP-2337] 24 p3881 N84-34589

LOW LATITUDES
U TROPICAL REGIONS

LOW LEVEL TURBULENCE
Statistical analysis of turbulence data from the NASA Marshall Space Flight Center atmospheric boundary layer tower array facility — statistical correlations for aircraft design
[NASA-CR-3737] 04 p0566 N84-13730
Correlation between the meteorological parameters and the optical strength of atmospheric turbulence close to the ground. Part 3: Results
[BAE-BT-10771] 13 p2016 N84-23070

LOW MASS
U MASS

LOW NOISE
L band low noise amplifier project
[INPE-2794-PRE/356] 04 p0524 N84-13445
Computer-aided synthesis and design of monolithic microwave GaAs MESFET amplifiers
[AD-A132474] 04 p0525 N84-13452
Low-noise gallium-arsenide field-effect transistor preamplifiers for stochastic beam-cooling systems
[DE83-017535] 04 p0528 N84-13475
Low noise amplifier with a JFET inlet stage
[IFSI-83-8] 05 p0677 N84-14452
Low noise tuned amplifier
[NASA-CASE-GSC-12567-1] 13 p1985 N84-22887
Low noise amplifier at L band
[INPE-3128-PRE/519] 16 p2483 N84-25925

LOW PASS FILTERS
Edge- and contour detection for correction of low-pass filtered images
[PB83-217489] 06 p0918 N84-15969
An active filter primer
[AD-A134838] 08 p1152 N84-17498
Shock spectral analysis by personal computer, using the IFT algorithm 10 p1509 N84-19875
Integrated filters in MOS technology — CMOS
[BMFT-FB-T-83-194] 10 p1590 N84-20419

LOW PRESSURE
NT CYCLOGENESIS
Observations of nonlinear behavior in a low-pressure discharge column
[AD-A132321] 04 p0605 N84-13996
Aerothermodynamics of Low Pressure Steam Turbines and Condensers, volume 1 — conferences
[VKI-LS-1983-06-VOL-1] 06 p0840 N84-15472
The design of modern Low Pressure (LP) steam turbines 06 p0840 N84-15473
Measurements in steam turbines 06 p0840 N84-15476
Aerothermodynamics of Low Pressure Steam Turbines and Condensers, Volume 2 — conferences
[VKI-LS-1983-06-VOL-2] 06 p0841 N84-15482
Wet steam flow in L. P. turbines — low pressure (LP) 06 p0841 N84-15483
Vacuum ionic carburisation
[BLL-OA-TRANS-3149-(6196.3)] 08 p1122 N84-17291
Introduction to the Laser-HANE experiment and summary of low-pressure interaction results
[AD-A138945] 13 p1996 N84-22952
Scaling of the beam plasma discharge for low magnetic fields
[AD-A139415] 14 p2229 N84-24363
Growth of electrically charged soot particles in flames 15 p2291 N84-24751
Energy efficient engine: Low-pressure turbine subsonic cascade component development and integration program
[NASA-CR-165592] 18 p2795 N84-27736
Development of protective coatings obtained by low pressure plasma spraying 18 p2934 N84-28607
Phenomenology of plasma engine cathodes at high current rates and low pressures
[NASA-TM-77729] 24 p3866 N84-34502

LOW PRESSURE CHAMBERS
U VACUUM CHAMBERS

LOW REYNOLDS NUMBER
An application of the finite element method to the solution of low Reynolds number, incompressible flow around a Joukowski aerofoil, with emphasis on automatic generation of grids
[AD-A133008] 05 p0628 N84-14127
On the stability of flight vehicles in the low Reynolds number non-linear regime
[AD-A140008] 15 p2258 N84-24561

LOW SPEED
An experimental investigation of the vortex flow over delta and double-delta wings at low speed 03 p0322 N84-12106
Analysis of nonplanar wing-tip mounted lifting surfaces on low-speed airplanes 06 p0786 N84-15142
Drag of two-dimensional small-amplitude symmetric and asymmetric wavy walls in turbulent boundary layers
[NASA-TP-2318] 16 p2486 N84-25944
Experimental studies of flow separation of three airfoils at low speeds
[NASA-CR-3530] 19 p2956 N84-28736
Flight characteristics of a manned, low-speed, controlled deep stall vehicle
[NASA-TM-86041] 20 p3128 N84-29863
Friction in low speed lubricated rolling and sliding contacts
[VTT-16] 20 p3199 N84-30318

LOW SPEED WIND TUNNELS
NT SUBSONIC WIND TUNNELS
Laser velocimetry in the low-speed wind tunnels at Ames Research Center
[NASA-TM-85885] 07 p1007 N84-16526
The cryogenic wind tunnel Cologne 14 p2095 N84-23568
Recent modifications and calibration of the Langley low-turbulence pressure tunnel
[NASA-TP-2328] 18 p2785 N84-27675
The 6M x 8M low speed wind tunnel 21 p3345 N84-31221

LOW TEMPERATURE
NT ULTRALOW TEMPERATURES
Low temperature behavior of fuels in simulated aircraft tanks
[AD-A130267] 01 p0052 N84-10336
Hydrogen trapping by yttrium in low-temperature lithium
[DE83-012721] 02 p0194 N84-11263
Development of a solar-driven free-piston heat pump
[DE83-015024] 02 p0220 N84-11440
Evaluation of low melting halide systems for battery applications
[AD-A131330] 02 p0242 N84-11582
Simplified analysis of a capacitive resonant transducer with a SQUID amplifier — gravitational antennas
[IFSI-83-4] 05 p0686 N84-14508

The effects of dehydration on peripheral cooling
[AD-A130638] 06 p0887 N84-15767
Equation of state of fluid NH-3 from P-V-T and ultrasound measurements to 12 kbar
[DE83-015913] 08 p1125 N84-17316
Arctic personnel effects
[AD-A134882] 08 p1201 N84-17829
State-coupled low temperature geothermal resource assessment program, Fiscal Year 1982
[DE84-008640] 10 p1526 N84-19997
Standards for protective goggles for use in the cold
[AD-A137286] 10 p1553 N84-20179
Free stream turbulence and density ratio effects on the interaction region of a jet in a cross flow
11 p1611 N84-20546
Tensile, comprehensive and sharp properties of a 96 kg/m3 cubic meter Polyurethane foam at low temperatures
[PB84-143643] 11 p1638 N84-20710
Analysis of excess attenuation in optical fibers subjected to low temperatures 11 p1722 N84-21232
Determination of the mixing potential in alloys from experimental data on short-range order
[BLL-M-35498-(5828.4)] 12 p1795 N84-21709
Cognitive performance change during a 6-hour hike at low temperature in simulated rain, at controlled walking rates
[AD-A138358] 13 p2020 N84-23100
Sperry low temperature geothermal conversion system, phase 1 and phase 2. Volume 6: Economic studies
[DE84-006039] 15 p2363 N84-25161
One-dimensional model hindcasts of cold anomalies in the North Pacific ocean
[AD-A139670] 15 p2373 N84-25236
A non-dimensional analysis of cardiovascular response to cold stress. Part 1: Identification of the physical parameters that govern the thermoregulatory function of the cardiovascular system
[AD-A136710] 15 p2380 N84-25285
Study of low temperature plastic deformation mechanisms of alpha-titanium single crystals
[ONERA-NT-1983-7] 16 p2560 N84-26422
Simulation of T-38 aircraft student canopy response to cockpit pressure and thermal loads using MAGNA (Materially and Geometrically Nonlinear Analysis)
[AD-P003231] 17 p2597 N84-26644
The low temperature behavior of lubricant greases
18 p2819 N84-27902
Research on the crystal growth and dielectric properties of high permittivity ferroelectric materials
[AD-A142125] 19 p3111 N84-29767
Enhanced low-temperature performance of a multicell LiSOC1sub2 battery
[DE84-011680] 21 p3394 N84-31537
Low temperature geothermal resource evaluation of the Moses Lake-Ritzville-Connell area, Washington
[DE84-012505] 21 p3432 N84-31773
Assessment of low-temperature geothermal resources of the United States, 1982
[DE84-007193] 22 p3615 N84-32902
Nucleation and growth of N- and P-type microcrystals in low-temperature glow-discharge deposited silicon films
[DE84-013122] 22 p3667 N84-33246
Data Report. Low Temperature Science. Series A: Physical Sciences
[ISSN-0385-3683] 23 p3762 N84-33842
The effect of lesions in the preoptic-anterior hypothalamus on the reflexive responses of rats to cold stress
[AD-A144020] 23 p3805 N84-34126
Regulation and characteristics of cold-induced vasodilation
[AD-A143797] 23 p3810 N84-34158
Space Shuttle AFRSI OMS pod environment test using model 81-0 test fixture in the Ames Research Center 9x7-foot supersonic wind tunnel (OS-314A/B/C)
[NASA-CR-167669] 24 p3860 N84-34464

LOW TEMPERATURE ENVIRONMENTS
Development of passive diver thermal protection system
[AD-A130685] 01 p0117 N84-10762
Aerosol growth in a cold environment
[AD-A139907] 15 p2267 N84-24720
Bearing tester data compilation, analysis and reporting and bearing math modeling, volume 1
[NASA-CR-171039] 15 p2340 N84-25046
Analysis of permafrost depths on Mars
15 p2426 N84-25569
Assessing the impact of climatic change in cold regions
[NASA-SR-84-1] 19 p3057 N84-29394

LOW TEMPERATURE PHYSICS
Thermal conductance measurements of pressed OFHC copper contacts at liquid helium temperatures
[NASA-TM-85861] 03 p0429 N84-12809
Is it superconductivity at 293 k?
[AD-A132545] 04 p0612 N84-14037

LOW TEMPERATURE PLASMAS
U COLD PLASMAS

LOW TEMPERATURE TESTS
1981 CRC (Coordinating Research Council) diesel fuel low-temperature operability field test
[AD-A133543] 06 p0813 N84-15289
Utilization of low temperatures in electrical machines
[AD-A133325] 06 p0830 N84-15399
Superfluid Helium Cryostat for Space Utilization (CRHESUS): Development and test overview
10 p1442 N84-19420
The relationship between vehicle fuel temperature and ambient temperature. 1981 CRC (Coordinating Research Council) Kapuskasing field test
[AD-A136948] 10 p1470 N84-19602
Fracture temperature and flaw growth in nitronic 40 at cryogenic temperatures
[NASA-TP-2312] 14 p2127 N84-23750
Hydraulic cylinder seals in arctic conditions
[VTT-207] 14 p2155 N84-23912
Fastener load tests and retention systems tests for cryogenic wind-tunnel models
[NASA-TM-85805] 19 p2993 N84-28864
Contribution to the low temperature study of MOS transistors (10K-77K)
[ENST-83E017] 19 p3113 N84-29781
Low temperature evaluation of advanced technology hydraulic system (6,000 psi)
[AD-A143389] 22 p3538 N84-32396
Low-cycle fatigue of VT1-0 alloy and changes in its fine structure at temperatures of 293-4.2 deg K
23 p3708 N84-33509

LOW THRUST
Optimal low thrust, three burn orbit transfers with large plane changes 06 p0793 N84-15166
Low thrust bipropellant engine development
20 p3136 N84-29912
Optimal low-thrust transfers to geosynchronous orbit
21 p3348 N84-31240
Low thrust orbit optimization for interplanetary missions, volume 1
[ESA-CR(P)-1904-VOL-1] 23 p3697 N84-33430
Low thrust orbit optimization for interplanetary missions, volume 2
[ESA-CR(P)-1904-VOL-2] 23 p3697 N84-33431

LOW THRUST PROPULSION
NT ELECTROMAGNETIC PROPULSION
NT ION PROPULSION
NT MAN OPERATED PROPULSION SYSTEMS
NT PLASMA PROPULSION
NT SOLAR ELECTRIC PROPULSION
NT SOLAR PROPULSION
NT SOLAR THERMAL PROPULSION

LOW TURBULENCE
Recent modifications and calibration of the Langley low-turbulence pressure tunnel
[NASA-TP-2328] 18 p2785 N84-27675

LOW VELOCITY
U LOW SPEED

LOW VISIBILITY
Aids to navigation radar 1 principal findings: Performance in limited visibility of short range aids with passive reflectors
[AD-A137596] 11 p1604 N84-20507
Investigation of interactions between helmet-mounted sight/display, sensor platform and human pilot
[ESA-TT-748] 16 p2539 N84-26299

LOW VOLTAGE
Selectivity of low tension circuit protection: The SELLIM system
[CAHIERS-TECHNIQUES-126] 15 p2331 N84-24996
SAR transmitter
[SES/ENG/TN-254/83] 16 p2484 N84-25928
Analyses on the low voltage free electron laser
[AD-A143681] 23 p3754 N84-33796

LOWER ATMOSPHERE
NT BIOSPHERE
NT TROPOSPHERE

LOWER BODY NEGATIVE PRESSURE
Changes in cardiac output and orthostatic stability of cosmonauts 02 p0259 N84-11697
Normal human coronary circulation during postural tests and decompression of lower half of body
02 p0259 N84-11699
Effect of redistribution of blood on severity of spatial position illusions in weightlessness
02 p0260 N84-11701
Lower body graduated negative pressure system
[NASA-CR-171717] 03 p0417 N84-12725
Method and apparatus for simulating gravitational forces on a living organism
[NASA-CASE-MSC-20202-1] 07 p1050 N84-16803
Value of the lower body negative pressure test in aerospace medicine 11 p1701 N84-21096
Simulation of physiological effects of negative pressure on man 20 p3255 N84-30662

LOWER CALIFORNIA (MEXICO)
Geology, petrology and tectonic significance of the Mesozoic Paleoceanic terranes of the Vizcaino Peninsula, Baja California Sur, Mexico 21 p3436 N84-31810

LOWER IONOSPHERE
NT D REGION
Meteor showers effects in the low terrestrial ionosphere detected at VLF ionosonde and long distance propagation paths
[INPE-3242-PRE/588] 24 p3990 N84-35246

LOX (OXYGEN)
U LIQUID OXYGEN

LOX-HYDROGEN ENGINES
U HYDROGEN OXYGEN ENGINES

LSI
U LARGE SCALE INTEGRATION

LST
U HUBBLE SPACE TELESCOPE

LUBRICANT TESTS
Some observations on the performance of Fomblin Z25 oil and Braycote 3L-38RP grease in ball bearings and gear boxes 09 p1296 N84-18467
Lubrication of mountings subject to contact corrosion — spacecraft components 09 p1296 N84-18469
The tribology of gears for satellite applications
09 p1296 N84-18470
Application of military lubricants in commercial hydraulic/power transmission systems and components
[AD-A136937] 10 p1467 N84-19584
High-temperature lubricants for minimum-cooled diesel engines
[AD-A142426] 20 p3162 N84-30078
Solid lubrication design methodology
[NASA-CR-174690] 22 p3677 N84-33309
Evaluation of service lubricants and metals correlation of bench tests with engines
[AD-A143971] 23 p3718 N84-33569
Torque properties of oscillating, dry-lubricated ball bearings in vacuum — spacecraft lubrication
[ESA-ESTL-57] 23 p3758 N84-33820
Method and apparatus for determination of lubricant stability
[AD-D011193] 24 p3887 N84-34615

LUBRICANTS
NT HIGH TEMPERATURE LUBRICANTS
NT LUBRICATING OILS
NT SOLID LUBRICANTS
Characteristic morphological and frictional changes in sputtered MoS/sub 2 films
[NASA-TM-83565] 07 p0985 N84-16380
The ball bearing as a rheological test device
[NASA-TM-83570] 08 p1166 N84-17591
Comparison of predicted and experimental thermal performance of angular-contact ball bearings
[NASA-TP-2275] 09 p1325 N84-18654
Simulation of lubricating behavior of a thioether liquid lubricant by an electrochemical method
[NASA-TP-2316] 14 p2129 N84-23764
Importance and definition of materials in tribology. Status of understanding 14 p2152 N84-23893
Importance of properties of solids to friction and wear behaviour 14 p2153 N84-23895
Status of new direction of liquid lubricants
14 p2154 N84-23905
Thermal and oxidative stabilities of liquid lubricants
14 p2154 N84-23907
What's so hot about formulated synthetics?
14 p2155 N84-23909
Lubricant rheology in concentrated contacts
15 p2341 N84-25050
Utilization of selective mass transfer for increasing performance capability of hinges subject to heavy loads
17 p2641 N84-26898
Dependence of realizability of selective mass transfer during friction of aluminum bronzes against steel on composition of lubricating fluid 17 p2641 N84-26901
Dependence of realizability of selective mass transfer during friction of tin bronzes against steel in hydraulic system mechanisms on concentration of alloying elements 17 p2642 N84-26902
Lubricant foaming and aeration study, part 1
[AD-A141298] 18 p2819 N84-27896
Effects of wear metal on lubricant deposition
[AD-A142027] 19 p2999 N84-29008
Operating characteristics of a three-piece-inner-ring large-bore roller bearing to speeds of 3 million DN
[NASA-TP-2355] 19 p3031 N84-29226
Transmission efficiency measurements and correlations with physical characteristics of the lubricant
[NASA-TM-83740] 20 p3195 N84-30293

Evaluation of service lubricants and metals correlation of bench tests with engines
[AD-A143971] 23 p3718 N84-33569

LUBRICATING OILS
The CEMS (Comprehensive Engine Management System) IV OAP (Oil Analysis Program) algorithm
[AD-A131055] 01 p0011 N84-10072
Self excited oscillations in journal bearings
[AD-A130200] 01 p0090 N84-10585
150 hour engine test of corrosion inhibited MIL-L-23699C oil
[AD-A131633] 03 p0356 N84-12317
Storage of synthetic turbine lubricants under adverse conditions
[AD-A132226] 04 p0506 N84-13319
North Carolina used-motor-oil re-refining program: Economics and logistics and operating results
[DE84-001448] 06 p0810 N84-15277
Inhalation toxicology. 3: Evaluation of thermal degradation products from aircraft and automobile engine oils, aircraft hydraulic fluid, and mineral oil
[AD-A133221] 06 p0889 N84-15778
Study of the lubrication mechanism of thin film lubricated concentrated steel contacts. The influence of pre-treatment of the steel on the load carrying capacity
[AD-A135067] 08 p1166 N84-17593
Turbine engine lubricant reclamation
[AD-A135926] 09 p1288 N84-18410
Some observations on the performance of Fomblin Z25 oil and Braycote 3L-38RP grease in ball bearings and gear boxes 09 p1296 N84-18467
Standardization and selection of a method for evaluating shear resistance of lubricating oils with polymer additives
[NASA-TM-77383] 10 p1465 N84-19569
Application of military lubricants in commercial hydraulic/power transmission systems and components
[AD-A136937] 10 p1467 N84-19584
Shearing stability of lubricants
[NASA-TM-77435] 11 p1636 N84-20697
Research on shear stability of polymer-containing hydraulic oils
[REPT-11] 12 p1800 N84-21737
Viscometric changes of engine oils
[REPT-12] 12 p1800 N84-21738
Aircraft accident report. Eastern Air Lines, Incorporated, Lockheed L-1011, N334EA, Miami International Airport, Miami, Florida, May 5, 1983
[NTSB-AAR-84-04] 14 p2103 N84-23613
Status of new direction of liquid lubricants 14 p2154 N84-23905
Behaviors of polymer additives under EHL and influences of interactions between additives on friction modification 14 p2154 N84-23908
What's so hot about formulated synthetics? 14 p2155 N84-23909
Tribology in the 80's. Volume 2: Sessions 5 - 8
[NASA-CP-2300-VOL-2] 15 p2340 N84-25047
Lubricant rheology in concentrated contacts 15 p2341 N84-25050
Support of oil lubrication by bonded coatings 15 p2342 N84-25057
Selection of a mineral-base lubricant for the cold rolling of aluminum strip 15 p2401 N84-25412
Application of the liquid column chromatography to the study of lubricating oils and esters separation 18 p2817 N84-27889
The low temperature behavior of lubricant greases 18 p2819 N84-27902
Application of liquid column chromotography to the study of lubricant oils and ester separation 18 p2819 N84-27903
Friction and wear characteristics of molecular compound classes from lubricating base oils. Part 1: Separation and chemical characterization
[PB84-167741] 18 p2820 N84-27904
Flow of a simple viscoelastic fluid in a thin lubricating oil
[ISSN-0208-5658] 19 p3019 N84-29145
Thickener/fluid interaction in lubricating greases
[AD-A142276] 20 p3161 N84-30076
Method for the particle size independent spectrometric determination of metal particles in lubricating oils and hydraulic fluids
[AD-D011121] 22 p3545 N84-32445
Perfluoroalkylether substituted phenyl phosphines
[AD-D011122] 22 p3558 N84-32529
Tricresyl phosphate retention by bearing retainer and reservoir materials
[AD-A143842] 23 p3724 N84-33568
Optical and other property changes of M-50 bearing steel surfaces for different lubricants and additive prior to scuffing
[NASA-TM-83746] 24 p3888 N84-34820

LUBRICATION
NT BOUNDARY LUBRICATION
NT SPACECRAFT LUBRICATION
Numerical methods and computers used in elastohydrodynamic lubrication
[NASA-TM-83524] 02 p0228 N84-11498
Surface contact wear and abrasive wear in lubricated sliding mechanisms 04 p0543 N84-13573
Split-Stirling, linear-resonant, cryogenic refrigerators for detector cooling 06 p0819 N84-15342
Interactive mechanisms of sliding-surface bearings
[AD-A133127] 06 p0852 N84-15556
Study of the lubrication mechanism of thin film lubricated concentrated steel contacts. The influence of pre-treatment of the steel on the load carrying capacity
[AD-A135067] 08 p1166 N84-17593
Mechanism of lubrication by tricresylphosphate (TCP)
[NASA-TP-2274] 09 p1324 N84-18853
Lubrication and support of a single piston ring
[DE84-004368] 10 p1502 N84-19818
Lubrication of engineering surfaces, phase 2
[DE84-005685] 11 p1685 N84-20883
High-temperature deuterated lubricants: Additives, mechanisms, and methods
[AD-A138114] 12 p1801 N84-21743
The effect of fluid inertia and viscoelasticity in squeeze-film damper bearings
[AD-A138054] 12 p1822 N84-21880
Status and direction of tribology as a science in the 80's. Understanding and prediction 14 p2152 N84-23892
Nature of the surface and its effect on solid-state interactions 14 p2152 N84-23894
Elastohydrodynamic lubrication of smooth surfaces 15 p2315 N84-24895
Elastohydrodynamic lubrication of rough surfaces 15 p2315 N84-24896
Surface topography-connections between lubrication and failure initiation 15 p2316 N84-24898
Elastohydrodynamic lubrication. Status of understanding 15 p2340 N84-25048
Temperature effects in elastohydrodynamically lubricated contacts 15 p2340 N84-25049
Non-steady state effects in EHL 15 p2341 N84-25051
Real surface effects in elastohydrodynamic lubrication 15 p2341 N84-25052
Micro-elastohydrodynamic lubrication 15 p2341 N84-25053
Transient EHL effects in starved ball bearings 15 p2341 N84-25054
Effect of substrate chemical pretreatment on the tribological properties of graphite films
[NASA-TM-83574] 16 p2470 N84-25831
Contributions to dynamics study of air-lubricated gas bearings at high compressibility numbers 17 p2674 N84-27039
Lubricant jet flow phenomena in spur and helical gears with modified center distances and/or addendums for out-of-mesh conditions
[NASA-TM-83723] 19 p3031 N84-29224
Friction in low speed lubricated rolling and sliding contacts
[VTT-16] 20 p3199 N84-30318
Lubrication during cutting: Wear and friction
[CETIM-13-Y-322] 21 p3414 N84-31653
The chemical and physical changes on lubricated surfaces 22 p3602 N84-32820
Certain assumptions of theory of hydrodynamic lubrication during metal pressure working
[BLL-M-35681-(5828.4)] 22 p3603 N84-32822
Navy mobility fuels evaluation
[AD-A144171] 24 p3890 N84-34630

LUBRICATION SYSTEMS
Interactive mechanisms of sliding-surface bearings
[AD-A133127] 06 p0852 N84-15556

LUCITE (TRADEMARK)
U POLYMETHYL METHACRYLATE

LUDER BANDS
U PLASTIC DEFORMATION
U YIELD POINT

LUGS
Semielliptical cracks along holes in plates and lugs
[AD-A130786] 01 p0096 N84-10622
Composite structural materials
[NASA-CR-174597] 03 p0347 N84-12257
Fatigue crack propagation in Al-alloy lugs under constant amplitude and maneuver spectrum loading
[TAE-497] 06 p0857 N84-15585
Endurance of steel lugs with clearance-fit pins (tensile mean stress)
[ESDU-82022] 07 p1011 N84-16559
Stress concentration factors. Axially loaded lugs with clearance-fit pins
[ESDU-81006] 07 p1014 N84-16578
Stress intensity factors in lugs (through-thickness cracks)
[ESDU-81029] 07 p1014 N84-16579
Results of a study of residual stresses and fatigue crack growth in lugs with expanded holes
[NLR-MP-83024-U] 15 p2349 N84-25100

LUMBERING AREAS
U FORESTS

LUMINAIRES
NT ARC LAMPS
NT FLASH LAMPS
NT QUARTZ LAMPS
NT RUNWAY LIGHTS
NT XENON LAMPS
Comparison of technologies for new energy-efficient lamps
[DE83-015949] 03 p0369 N84-12401
Fluorescent discharge lamp
[NASA-TM-77456] 10 p1485 N84-19706
Visible pyrotechnic flare spectroscopy using vidicons
[AD-A140283] 16 p2474 N84-25857
Artificial aging of transparent aerospace materials
[AD-P003210] 17 p2593 N84-26823
Magnetic fluorescent lamp
[DE84-014231] 22 p3590 N84-32740

LUMINANCE
The interplanetary hydrogen and helium glow and the inferred interstellar gas properties 03 p0472 N84-13109
Displaying colors of specified chrominance on a color graphics display
[AD-A133591] 06 p0898 N84-15817
Eye spectral sensitivity and its variation with luminance level
[RAE-TR-83043] 09 p1361 N84-18892
The present status of Clean PAL systems
[BBC-RD-1984/6] 20 p3172 N84-30142
The perception of saturation and hue on colour cathode ray tubes
[AD-A143645] 23 p3811 N84-34167

LUMINESCENCE
NT BIOLUMINESCENCE
NT CATHODOLUMINESCENCE
NT CHEMILUMINESCENCE
NT ELECTROLUMINESCENCE
NT FLUORESCENCE
NT OPTICAL RESONANCE
NT PHOSPHORESCENCE
NT PHOTOLUMINESCENCE
NT RESONANCE FLUORESCENCE
NT THERMOLUMINESCENCE
NT X RAY FLUORESCENCE
Controls of intracellular communication mediated by gap junctions 02 p0264 N84-11738
Hydrogen in MgO crystals thermochemically reduced at very high temperatures
[DE83-014058] 03 p0453 N84-12981
Electrical, luminescence and SIMS (Secondary ion mass spectroscopy) characterization of carbon implanted vapor phase epitaxial gallium arsenide
[AD-A138094] 12 p1913 N84-22484
Evaluation of arctic test of tritium radioluminescent lighting
[AD-A139176] 14 p2104 N84-23619
Luminescence titrations of polyelectrolytes
[AD-A140823] 17 p2619 N84-26763
An investigation of lyolinescence techniques for application in radiation protection dosimetry
[PB83-263236] 19 p3053 N84-29373
Preparation of mixed perovskite oxides for blue-green lasers
[AD-A142195] 19 p3111 N84-29768
Polarization of paraexciton luminescence in Cu2O crystals in magnetic field 20 p3287 N84-30870
Influence of exciton movement in magnetic field on luminescence. Indirect forbidden transitions in Ge 21 p3485 N84-32083

LUMINESCENT INTENSITY
U LUMINOUS INTENSITY

LUMINOSITY
NT STELLAR LUMINOSITY
Intense antiproton source for a 20 TeV collider
[DE83-012878] 01 p0142 N84-10934
The effects of beam-beam collisions on storage-ring performance: A pedagogical review
[DE83-012773] 01 p0144 N84-10944
HEAO 1-A1 observations of AM Herculis and related objects
[NASA-CR-170907] 01 p0164 N84-11077
Luminosity enhancement in relativistic jets and altered luminosity functions for beamed objects
[NASA-TM-85053] 03 p0440 N84-12869
Faint galaxies in the Coma cluster: Luminosity function and spatial distribution 03 p0464 N84-13053
Soft X-ray spectral observations of quasars and high X-ray luminosity Seyfert galaxies
[NASA-TM-85118] 04 p0619 N84-14082

Proceedings of the 1983 DPF Workshop on Collider Detectors: Present Capacities and Future Possibilities
[LBL-15973] 06 p0910 N84-15911
Experience of the axial field spectrometer at the CERN ISR 06 p0910 N84-15912
Search for Hadron jets and large transverse momentum electrons at the SPS pp collider 06 p0911 N84-15913
Review of properties of various types of calorimeters: High luminosity and high energy 06 p0911 N84-15917
Trigger systems which could operate at a luminosity of 10/sup 33 cm(-2) to sec/sup -1 06 p0911 N84-15918
Searching for limitations in capability due to high average rates 06 p0911 N84-15919
Detectors at 20 TeV and detector considerations for a high luminosity hadron-hadron machine 06 p0911 N84-15920
Track chambers for high luminosity 06 p0912 N84-15921
Triggering at high luminosity: Fake triggers from pile-up 06 p0913 N84-15932
Fast asynchronous level 1 pre-trigger for electrons at L = 10/sup 33 cm-2 sec-1 06 p0913 N84-15933
Use of synchrotron radiation for electron identification at high luminosity 06 p0913 N84-15935
Operation of a high-P/sub T spectrometer arm at 10/sup 33 cm-2 sec-1 with particle identification 06 p0913 N84-15937
Muons and electrons in general 06 p0914 N84-15938
Detecting heavy quark jets 06 p0914 N84-15939
X-ray observations of cataclysmic variables 06 p0936 N84-16084
Near infrared studies of reflection nebulae 06 p0937 N84-16086
Optical and X-ray selected samples of quasars: Evolution of the luminosity distributions 06 p0937 N84-16090
Brighter H(-) source for the intense pulsed neutron source accelerator system
[DE84-003608] 07 p1072 N84-16965
Spectrophotometry of 2 complete samples of flat radio spectrum quasars
[NASA-CR-175343] 07 p1088 N84-17077
Determination of individual temperatures and luminosities in eclipsing binary star systems
[AD-A134182] 08 p1244 N84-18133
Stability of the low degree 5 minute solar oscillations
[DE84-003786] 08 p1246 N84-18143
A study of the discrepant QSO X-ray luminosity function from the HEAO-2 data archive
[NASA-CR-173311] 09 p1413 N84-19240
Constraints on stellar evolution from pulsations
[DE84-003787] 09 p1415 N84-19261
The luminosity function of galaxies in CO-12 13 p2071 N84-23424
Dynamics and evolution of cD galaxies 13 p2072 N84-23425
Recommendations for on-site vibration standards
[DE84-011758] 20 p3181 N84-30207
Automatic beam centering at the SSC interaction regions
[DE84-010710] 20 p3292 N84-30902
Submillimeter wavelength survey of the galactic plane from l = -5 deg to l = +62 deg: Structure and energetics of the inner disk
[NASA-TM-86077] 20 p3319 N84-31069
Solar variability observed through changes in solar figure and mean diameter
[DE84-013914] 22 p3680 N84-33328
X-ray spectra of clusters of galaxies
[NASA-TM-86115] 24 p3982 N84-35234
Spatial fluctuations in the diffuse cosmic X-ray background
[NASA-TM-85029] 24 p3994 N84-35281

LUMINOUS FLUX DENSITY
U LUMINOUS INTENSITY

LUMINOUS INTENSITY
NT ILLUMINANCE
NT LUMINANCE
Scaling theorems for zero-crossings
[AD-A131599] 02 p0281 N84-11839
Integration of detectors with optical waveguide structures
[AD-A133855] 05 p0674 N84-14430
Theoretical treatment of the current neutralization of high intensity light ion beams in argon
[DE84-000118] 05 p0745 N84-14883
The effect of various carbon sources on the growth of single-celled cyanophyta
[NASA-TM-77090] 08 p1197 N84-17804
Method of reducing temperature in high-speed photography
[NASA-TM-83620] 12 p1907 N84-22421
An automated system for characterizing laser pulses
[AD-A138580] 13 p1995 N84-22945
Optical bistability with two-level atoms 14 p2231 N84-24383
Multistability, self-oscillation and chaos in nonlinear optics 14 p2232 N84-24387
Critical slowing-down in microwave absorptive bistability 14 p2237 N84-24429
Absorptive optical bistability with laser amplitude fluctuations 14 p2238 N84-24430
Precise measurements of bistability in a CO/sub 2 laser with intracavity saturable absorber 14 p2238 N84-24431
A saturable interferometer theory of absorptive optical bistability 14 p2238 N84-24435
Bistability in optical waveguides 14 p2239 N84-24436
Non-linear Fabry-Perot transmission in A CdHgTe etalon 14 p2239 N84-24437
Retroreflectance MAP (Measurement Assurance Program) service for coefficient of luminous intensity
[PB84-164938] 15 p2408 N84-25457
V 505 Monocerotis: New binary shell star 15 p2423 N84-25553
Influence of level of adaptation to light upon estimation of brightness 18 p2898 N84-28385
Automatic gain control circuit for video signals of scenes of varying illumination levels
[AD-A144198] 24 p3894 N84-34658

LUMPED PARAMETER SYSTEMS
ESATAN: A thermal network analysis computer program 10 p1443 N84-19426

LUNAR ALBEDO
Recent comet impacts on the moon: The evidence from spectral reflectance studies 13 p2076 N84-23453

LUNAR BASES
Design of a project plan for the establishment of a lunar factory
[ILR-MITT-123] 10 p1435 N84-19379

LUNAR COMPOSITION
Origin of the Moon: In search of the holy grail — volcanic glass 11 p1754 N84-21451
Surface compositions in the Aristarchus Region: Implications for regional stratigraphy 13 p2087 N84-23519
Effects of lunar soil and metal oxides on thermal and radiochemical stability of amino acids 14 p2251 N84-24518

LUNAR CRATERS
Significant achievements in the planetary geology program
[NASA-CR-3782] 11 p1758 N84-21474
Recent comet impacts on the moon: The evidence from spectral reflectance studies 13 p2076 N84-23453
Does saturation cratering exist in the solar system? 13 p2078 N84-23467
Advances in planetary geology
[NASA-TM-86247] 15 p2426 N84-25567
Stratigraphy of the crater Copernicus 15 p2426 N84-25571
Spatial distribution of craters on the Moon and Callisto 15 p2426 N84-25574
Callisto: A lunar-like bombardment? 15 p2426 N84-25575
Morphologic studies of the Moon and planets
[NASA-CR-173886] 22 p3678 N84-33319
A geographic comparison of selected large-scale planetary surface features
[NASA-TM-86147] 22 p3679 N84-33320
Planetary tectonics 24 p3990 N84-35247
Meteorite bombardment and dating of planetary surfaces
[NASA-TM-77558] 24 p3991 N84-35260

LUNAR CRUST
Recent comet impacts on the moon: The evidence from spectral reflectance studies 13 p2076 N84-23453
Terra scarps indicating youngest terra faults on the Moon 23 p3841 N84-34365
Planetary tectonics 24 p3990 N84-35247
Meteorite bombardment and dating of planetary surfaces
[NASA-TM-77558] 24 p3991 N84-35260

LUNAR EFFECTS
NT LUNAR TIDES
Lunar variations of cosmic ray intensity 24 p3993 N84-35272

LUNAR EVOLUTION
Workshop on Pristine Highlands Rocks and the early History of the Moon
[NASA-CR-174584] 03 p0465 N84-13059
Fifteenth Lunar and Planetary Science Conference. Press Abstracts
[NASA-CR-175409] 11 p1754 N84-21448
Origin of the Moon: In search of the holy grail — volcanic glass 11 p1754 N84-21451
Recent comet impacts on the moon: The evidence from spectral reflectance studies 13 p2076 N84-23453

LUNAR EXPLORATION
Lunar exploration by polar orbiter
[NAL-TR-755] 09 p1416 N84-19265

LUNAR FLIGHT
Cost estimation model for advanced planetary programs, fourth edition
[NASA-CR-173495] 13 p1936 N84-22590

LUNAR GEOLOGY
Remote sensing and geologic studies of the planetary crusts
[NASA-CR-173216] 07 p1091 N84-17092
Mineralogical investigations of lunar samples and meteorites
[NASA-CR-173246] 07 p1091 N84-17093
Space research in Switzerland 08 p1107 N84-17200
Lunar sample analysis
[NASA-CR-171771] 11 p1758 N84-21477
The Borealis Basin of Mars 13 p2079 N84-23472
Surface compositions in the Aristarchus Region: Implications for regional stratigraphy 13 p2087 N84-23519
Correction and geological analysis of lunar 3.8 CM radar data 13 p2089 N84-23531
Stratigraphy of the crater Copernicus 15 p2426 N84-25571

LUNAR GRAVITATION
Generalized model of lunar gravitational field 19 p2975 N84-28860

LUNAR MANTLE
Analysis of regolith electromagnetic scattering as constrained by high resolution Earth-based measurements of the lunar microwave emission
[NASA-CR-174577] 05 p0764 N84-15012

LUNAR MARIA
Does saturation cratering exist in the solar system? 13 p2078 N84-23467
Terra scarps indicating youngest terra faults on the Moon 23 p3841 N84-34365

LUNAR OCCULTATION
NT SOLAR ECLIPSES

LUNAR PERTURBATION
U LUNAR EFFECTS

LUNAR PROGRAMS
NT SURVEYOR PROJECT

LUNAR RANGEFINDING
Recommended program activities, 1988-1998 20 p3223 N84-30478

LUNAR RETROREFLECTORS
Y03: Prequalification of surface treatment. Measurement of laser reflecting power — Earth-Moon telemetry
[ESA-TT-791] 03 p0382 N84-12490
Retroreflector Y03: Study of the optical properties of protected mirrors — Earth-Moon telemetry
[ESA-TT-789] 03 p0443 N84-12907

LUNAR ROCKS
NT KREEP
Workshop on Pristine Highlands Rocks and the early History of the Moon
[NASA-CR-174584] 03 p0465 N84-13059

LUNAR SCATTERING
U DIFFUSE RADIATION

LUNAR SOIL
Radioactivites in returned lunar materials and in meteorites
[NASA-CR-171710] 02 p0308 N84-12018
Mineralogic and petrologic studies of meteorites and lunar samples
[NASA-CR-175390] 11 p1758 N84-21478
Uracil and uridine photolysis on lunar soil 14 p2250 N84-24516
Effects of lunar soil and metal oxides on thermal and radiochemical stability of amino acids 14 p2251 N84-24518

LUNAR SURFACE
Activities at the Lunar and Planetary Institute
[NASA-CR-173528] 14 p2166 N84-23974
Structural function of lunar relief according to radar data 17 p2630 N84-26823
Morphologic studies of the Moon and planets
[NASA-CR-173886] 22 p3678 N84-33319
A geographic comparison of selected large-scale planetary surface features
[NASA-TM-86147] 22 p3679 N84-33320
Polyphase tectonics of the Oceanus Procellarum area on the Moon 23 p3841 N84-34364
Meteorite bombardment and dating of planetary surfaces
[NASA-TM-77558] 24 p3991 N84-35260

LUNAR TIDES
Computing tides, nutations and tidally-induced variations in the Earth's rotation rate for a rotating, elliptical Earth 07 p1030 N84-16675

Possible tidal modulation of the Indian monsoon onset
[AD-A135441] 08 p1191 N84-17760
Observations of long-period motions of the Earth at the South Pole 21 p3440 N84-31823

LUNATION
U MONTH

LUNEBERG LENSES
U RADAR CORNER REFLECTORS

LUNGS
Measurement of lung function using the magnetometer system
[AD-A130841] 01 p0114 N84-10738
Fourier-processed images of dynamic lung function from list-mode data
[DE83-013276] 01 p0114 N84-10741
Pulmonary dosimetry of nitrogen dioxide in animals and man
[PB83-243394] 03 p0414 N84-12711
Interaction of anti-G measures and chest wall mechanics in determining gas exchange
[AD-A133740] 06 p0689 N84-15775
Proceedings of the 13th Conference on Environmental Toxicology
[AD-A134150] 07 p1027 N84-16857
Respiratory tract closing volume and structure of total lung capacity during seven-day hypokinesia in head-down position 07 p1045 N84-16778
The effects of high frequency positive pressure ventilation on hypoxic pulmonary vasoconstriction 10 p1549 N84-20151

LUTETIUM
The Lf-Hf evolution of KREEP 11 p1756 N84-21461

LYAPUNOV FUNCTIONS
U LIAPUNOV FUNCTIONS

LYMAN ALPHA RADIATION
Observations of emission in bright, low redshift quasars
[NASA-CR-175376] 08 p1242 N84-18122
The kinematics of the emission line gas in quasars and active galactic nuclei 21 p3524 N84-32326
Pioneer 10 and Voyager observations of the interstellar medium in scattered emission of the He584 A and H Lya 1216 A lines
[NASA-CR-173931] 23 p3840 N84-34361

LYMPH
NT LYMPHOCYTES

LYMPHOCYTES
Changes in the T and B systems of immunity in seamen during a long cruise 06 p1199 N84-17819
Statistical analysis of high SCE frequency cells in human lymphocytes
[DE84-005433] 11 p1693 N84-21042
Some immunological mechanisms of adaptation of seamen to conditions of low latitude sailing 11 p1694 N84-21052
Effects of long-term low-level radiofrequency radiation exposure on rats. Volume 5: Evaluation of the immune system's response
[AD-A138535] 14 p2184 N84-24087

LYOPHILIZATION
U COLLOIDING

LYOPHILS
U COLLOIDS

LYRA CONSTELLATION
The effect of opacity on theoretical models of RR Lyrae stars 04 p0619 N84-14081
A survey of halo RR Lyrae stars 13 p2089 N84-23409

LYSINE
Microbiology and food program 22 p3629 N84-32999

LYSOZYME
Biochemical and histochemical adaptations of skeletal muscle to rat suspension 09 p1354 N84-18849

M

M WINGS
U VARIABLE SWEEP WINGS

MAARS
U CRATERS

MACH NUMBER
A study of transonic normal shock wave-turbulent boundary layer interactions in axisymmetric internal flow 01 p0002 N84-10015
Analysis of shuttle oscillation in the Mach Number = 1.7 to Mach Number = 1.0 range 01 p0021 N84-10132
Laser velocimeter developments for surveying thin boundary layers in a Mach 6 high Reynolds number flow
[AD-A130387] 01 p0083 N84-10541
Aerodynamic characteristics, including effect of body shape, of a Mach 6 aircraft concept
[NASA-TP-2235] 04 p0481 N84-13164
Phase averaged measurements of the coherent structure of a mach number 0.6 jet
[NASA-CR-175359] 07 p0945 N84-16134
Mach 0.6 to 3.0 flows over rectangular cavities
[AD-A134579] 07 p0948 N84-16153
Assessment of real gas effects on the prediction of the aerodynamics of high velocity Army shells
[AD-A134739] 08 p1099 N84-17150
Correlations of supersonic boundary-layer transition on cones including effects of large axial variations in wind-tunnel noise
[NASA-TP-2229] 08 p1157 N84-17534
Evaluation of a flow direction probe and a pitot-static probe on the F-14 airplane at high angles of attack and sideslip
[NASA-TM-84911] 11 p1606 N84-20514
Mach number correlation for a two-dimensional helicopter rotor-blade analysis in the tip region 12 p1765 N84-21509
An experimental study on the induced rolling moment due to wing-tail interference and roll-controllable two-stage rocket
[NAL-TR-793] 12 p1777 N84-21599
Boundary layer trip performance test on a 7-deg cone model at mach number 8
[AD-A139408] 14 p2146 N84-23860
Experimental pressure distributions on axisymmetric forebodies at Mach 3 and angles of attack up to 17.5 degrees
[AD-A140321] 16 p2442 N84-25668
Base pressure measurements on a projectile shape at Mach numbers from 0.91 to 1.20
[AD-A141341] 16 p2789 N84-27699
A review of some Reynolds number effects related to bodies at high angles of attack
[NASA-CR-3809] 21 p3325 N84-31097
Columbia: The first 5 flights entry heating data series. Volume 5: The side fuselage and payload bay door
[NASA-CR-171732] 22 p3541 N84-32416

MACH REFLECTION
Mach reflection flow fields associated with strong shocks
[AD-A131384] 02 p0175 N84-11148
Power-series solutions of the gasdynamic equations for Mach reflection of a planar shock by a wedge
[AD-A135953] 09 p1315 N84-18594
Longitudinal resistivity and intermediate Mach number collisionless transverse magnetosonic shocks
[AD-A137122] 10 p1491 N84-19749
Shock wave modelling and the HULL computer code formation of Mach stems
[MRL-R-907] 16 p2486 N84-25942
Some theoretical results on Mach reflection of moderately strong shock waves
[MPIS-14/1983] 17 p2668 N84-27016

MACH-ZEHNDER INTERFEROMETERS
High precision material study at near millimeter wavelengths
[AD-A133575] 06 p0918 N84-15966
Fiber optic sensors
[NASA-TM-77404] 14 p2224 N84-24346

MACHINE LEARNING
U LEARNING MACHINES

MACHINE LIFE
U SERVICE LIFE

MACHINE ORIENTED LANGUAGES
Documentation for the machine-readable version of a supplement to the Bright Star catalogue (Hoffleit, Saladyga and Wlasuk 1983)
[NASA-TM-85573] 13 p2070 N84-23415
Documentation for the machine-readable version of the catalogue of 20457 Star positions obtained by photography in the declination zone -48 deg to -54 deg (1950)
[NASA-TM-85572] 13 p2070 N84-23416
Documentation for the machine-readable version of a table of Redshifts for Abell clusters (Sarazin, Rood and Struble 1982)
[NASA-TM-85571] 13 p2070 N84-23417
Documentation for the machine-readable version of the SAO-HD-GC-DM cross index version 1983
[NASA-TM-85570] 13 p2071 N84-23418
Documentation for the machine-readable version of the Smithsonian Astrophysical Observatory Star catalogue (SAO) version 1984
[NASA-TM-85574] 13 p2071 N84-23419
Documentation for the machine-readable version of the general catalogue of 33342 stars for the epoch 1950 (Boss 1937)
[NASA-TM-85568] 13 p2071 N84-23420
On why it is impossible to prove that the BDX90 dispatcher implements a time-sharing system 15 p2387 N84-25319

MACHINE RECOGNITION
U ARTIFICIAL INTELLIGENCE

MACHINE STORAGE
U COMPUTER STORAGE DEVICES

MACHINE TOOLS
NT BORING MACHINES
NT GRINDING MACHINES
NT LATHES
NT MILLING MACHINES
Study on creep-fatigue life prediction using simple high temperature low cycle fatigue testing machines
[PB83-224121] 01 p0066 N84-10659
CAD/CAM: Influencing the skilled trades
[DE83-015186] 01 p0125 N84-10812
Holding fixture for a hot stamping press
[NASA-CASE-GSC-12619-1] 03 p0382 N84-12491
Fabrication of machined optics for precision applications
[DE83-015720] 03 p0442 N84-12900
Extrusion. State of the art and development, review paper
[RAE-TRANS-2102] 04 p0515 N84-13381
Coordinate-measuring machine capability
[DE84-002014] 04 p0539 N84-13544
Development of a process controlled pressline of enhanced technology for the production of sheet metal parts for the aircraft industry by a high pressure rubber pad system
[BMFT-FB-W-83-006] 05 p0626 N84-14116
Measurement of velocity and displacement of a transvaerestraint testing machine
[MRL-TN-473] 05 p0683 N84-14493
Thermal properties of coating materials and their effect on the efficiency of coated cutting tools 09 p1292 N84-18440
High speed steel special cutting tools: Their design and application 09 p1292 N84-18443
Productivity and the forging industry 09 p1293 N84-18448
Broaching today 09 p1293 N84-18450
Advanced finishing methods for spiral bevel and hypoid gears 09 p1293 N84-18451
Fundamental approach to design and prediction of performance of forming tools 09 p1294 N84-18453
Klystron manufacturing technology program
[AD-A135782] 09 p1309 N84-18555
Industrial noise control: The past three years 10 p1505 N84-19846
Heavy machine-tool construction for 50 years
[AD-A137599] 11 p1665 N84-20661
Mechanical engineering research program
[DE84-001065] 12 p1823 N84-21884
USSR report: Machine tools and metalworking equipment
[JPRS-UMM-84-008] 14 p2155 N84-23913
Industry urged to increase output of NC machine tool, robotics 14 p2155 N84-23914
Use of robots in Estonian auto, machine tool industries viewed 14 p2155 N84-23916
On geometrical accuracy in precise metal forming 15 p2306 N84-24845
Improvement of surface planing with diamond tool 17 p2641 N84-26897
Testing and control of a compliant wrist
[AD-A140842] 17 p2748 N84-27445
Precision flexible machining cells within a manufacturing system
[AD-A142527] 20 p3170 N84-30129
Turning of hardened ferrous materials with homogeneous CBN tool tips
[CSIR-TRANS-1728] 21 p3375 N84-31418
Metal coating of diamond abrasives (review of foreign patents)
[CSIR-TRANS-1740] 22 p3552 N84-32489
Forty years of development in diamond tools
[CSIR-TRANS-1730] 22 p3563 N84-32564
New machines for grinding, facetting and profiling hard materials
[CSIR-TRANS-1750] 22 p3603 N84-32821
USSR report: Machine tools and metalworking equipment
[JPRS-UMM-84-016] 23 p3728 N84-33623
Versatility of new east, west European robots viewed 23 p3728 N84-33624
Kirov's plant troubles with robotization 23 p3728 N84-33625
Discussion of superplasticity effect 24 p3876 N84-34563
USSR report: Machine tools and metalworking equipment
[JPRS-UMM-84-017] 24 p3891 N84-34640
Initial steps in utilization of robots 24 p3944 N84-34971

MACHINE TRANSLATION
AFWL benchmark computer program
[AD-A131273] 01 p0124 N84-10804
Prerequisites for deriving formal specifications from natural language requirements
[AD-A131722] 03 p0424 N84-12771

Generating data flow programs from nonprocedural specifications
[AD-A132609] 05 p0728 N84-14780

MACHINERY
Techniques for predictive maintenance in industrial installation and failure diagnostic
10 p1503 N84-19824
Mechanical signature analysis
10 p1505 N84-19843
Dynamics of a simple system subjected to random impact 10 p1511 N84-19889
Zero wear (selective mass transfer): New step toward higher wear resistance of machine parts
17 p2642 N84-26904

MACHINING
NT ELECTROCHEMICAL MACHINING
NT MILLING (MACHINING)
NT SPARK MACHINING
NT ULTRASONIC MACHINING
High speed machining of space shuttle external tank liquid hydrogen barrel panel
[NASA-TM-82557] 05 p0662 N84-14352
Further abbreviation of the machining schedule for producing surface-damage-free beryllium
[DOE/TIC-4500-REV-69] 06 p0614 N84-15297
The use of diamond core saws in the electronics industry
[CSIR-TRANS-1702] 08 p1140 N84-17417
Precision flexible machining cells within a manufacturing system
[AD-A134864] 08 p1167 N84-17595
Flexible conformable clamps for a machining cell with applications to turbine blade machining
[AD-A134942] 08 p1167 N84-17596
Cold-form tapping of internal threads
09 p1292 N84-18435
Fourth Seminar on Efficient Metal Forming and Machining
[ISBN-0-7966-2556-1] 09 p1292 N84-18438
Creep feed grinding: Advanced profile grinding technology 09 p1292 N84-18439
Broaching today 09 p1293 N84-18450
Advanced finishing methods for spiral bevel and hypoid gears 09 p1293 N84-18451
Laser cutting: An advanced technology in sheet metal working 09 p1293 N84-18452
Klystron manufacturing technology program
[AD-A135782] 09 p1309 N84-18555
Effect of liquid tin-zinc on the drilling parameters of several alloys
[PB84-134782] 10 p1464 N84-19562
Component development
[DE84-005629] 11 p1634 N84-20681
Solid modelling: History, status and current research directions 12 p1870 N84-22187
On geometrical accuracy in precise metal forming
15 p2308 N84-24845
Stochastic modeling of EDM with a view to off-line optimization
[PB84-162296] 17 p2639 N84-26885
Methods of analyzing processes of plastic working of metal, part 1 19 p2990 N84-28948
Machine monitoring for turning machine
[DE84-010214] 19 p3003 N84-29029
Study of mechano-chemical machining of ceramics and the effect on thin film behavior
[AD-A142542] 20 p3162 N84-30060
Precision flexible machining cells within a manufacturing system
[AD-A142527] 20 p3170 N84-30129
Robotic deburring. Part 1: Preliminary observations
[DE84-010766] 20 p3197 N84-30305
Economic use of CBN grinding tools in the production of jet turbine components
[CSIR-TRANS-1736] 22 p3563 N84-32561
Machined two-piece microwave waveguide
[AD-D011068] 22 p3587 N84-32715
Design of a high-performance slide and drive system for a small precision machining research lathe
[DE84-011059] 22 p3606 N84-32845
Three-dimensional photochemical machining with lasers
[AD-A143928] 23 p3754 N84-33798
Three-dimensional photochemical machining with lasers
[AD-A144096] 23 p3755 N84-33800
Laser impulse drilling machine discussed
24 p3891 N84-34641
Small orifice laser cutting machine viewed
24 p3891 N84-34642
Technical features of robotized machining system viewed 24 p3892 N84-34643
Three-dimensional photochemical machining with lasers
[AD-A144656] 24 p3909 N84-34760

MACROCLIMATE
U CLIMATE

MACROMOLECULES
U MOLECULES

MACULAR VISION
U VISION

MAGAZINES (SUPPLY CHAMBERS)
Evaluation of surface storage facilities for explosives, blasting agents and other explosive materials
[PB84-166392] 17 p2639 N84-26886

MAGELLANIC CLOUDS
Problems of stellar evolution in star clusters of the Magellanic clouds 03 p0463 N84-13051
Comparisons between observational color-magnitude diagrams and synthetic cluster diagrams for young star clusters in the Magellanic Clouds
[DE84-001870] 07 p1089 N84-17085
Correlated errors in a functional relationship: Estimation of the color term in the Period Luminosity-Color (PLC) for Long Magellanic Clouds (LMC) Cepheids
09 p1411 N84-19228
The fate of the magellanic clouds
09 p1413 N84-19248
Royal Observatory, Edinburgh: Research and Facilities 1983
[ISBN-0-902553-27-5] 10 p1594 N84-20446
Normal galaxies 10 p1594 N84-20449
Photographic surveys of the southern sky
18 p2643 N84-28052
Imagery and spectroscopy of supernova remnants and H-2 regions
[NASA-CR-171799] 19 p3121 N84-29841
Ultraviolet interstellar absorption toward stars in the small Magellanic cloud 22 p3677 N84-33313
Ages of extragalactic intermediate-age star clusters
[NASA-CR-173927] 23 p3840 N84-34360
The diffuse interstellar medium in the Magellanic clouds (review) 24 p3974 N84-35163

MAGMA
Research on the use of space resources
[NASA-CR-173213] 07 p0961 N84-16227
Impact basins and the volcanics of Mars
11 p1755 N84-21457
The Li-Hf evolution of KREEP
11 p1756 N84-21461
Modeling Io volcanism: Maximum volcanic temperatures, depths of melting and magma composition 13 p2073 N84-23436
Chronology, morphology and stratigraphy of pumiceous pyroclastic-flow (ignimbrite) deposits from the eruption of Mount St. Helens on 18 May 1983
13 p2080 N84-23476
Deep geophysical investigations in zones of present-day active volcanism 17 p2701 N84-27204
Subalkaline basaltic magmatism of active ocean-continent transition zones
18 p2857 N84-28144
Tectonic and magmatic rock of central Pacific Ocean
18 p2858 N84-28150
Formation and distribution of kimberlites in the eastern Siberian platform in connection with deep structure specifics 18 p2858 N84-28151
Chemical evolution of a high-level magma system: The Black Mountain Volcanic Center, Southern Nevada
[DE84-013321] 20 p3243 N84-30587
The petrology and geochemistry of the Yerington Batholith and the Ann-Mason Porphyry Copper Deposit, Western Nevada 21 p3441 N84-31828

MAGNESIUM
NT MAGNESIUM ISOTOPES
Electrothermal production of magnesium
[CSIR-TRANS-1679] 01 p0039 N84-10250
Matrix effects in ion-induced emission as observed in Ne collisions with Cu-Mg and Cu-Al alloys
[NASA-TM-83061] 01 p0141 N84-10923
Investigation of silicon materials for solar cells. Part 1: Segregation and gettering properties of certain contaminations. Part 2: Measurement of electrical parameters
[BMFT-FB-T-83-204] 10 p1531 N84-20026
A laboratory manual for the determination of metals in water and wastewater by atomic absorption spectrophotometry
[CSIR-TECH-GUIDE-K63] 11 p1628 N84-20653
Select fiber composites for space applications: A mechanistic assessment
[NASA-TM-83631] 13 p1954 N84-22702
A critical assessment of thermodynamic data for the Ca-Mg system
[NPL-DMA(A)-73] 15 p2415 N84-25500
Transport phenomena in improved electrochemical cell design for the production of magnesium
[DE84-010567] 19 p2989 N84-28944
Transport phenomena in improved electrochemical cell design for the production of magnesium
[DE84-006436] 19 p2995 N84-28978
Synthesis of refractory materials
[DE84-011045] 20 p3156 N84-30041
Photoionization models of the MgII and CIV selected clouds observed in absorption in QSO spectra
22 p3678 N84-33314
Critical current density of bronze-processed multifilimentary Nb-3Sn wires with magnesium addition to the matrix
[DE84-014579] 23 p3719 N84-33576
Use of high resolution IUE spectra of MG 2 in cool stars to probe the local interstellar medium
24 p3973 N84-35156
The Mg 2 lines in A dwarf stars
24 p3974 N84-35170

MAGNESIUM ALLOYS
Fatigue crack growth rates of high-magnesium aluminum-magnesium alloys as influenced by solution treatment time and alloy content
[AD-A132928] 05 p0655 N84-14305
Electrical transport in low resistivity amorphous alloys
[AD-A136331] 09 p1282 N84-18372
The role of hydrogen in the stress corrosion failure of high strength Al-Zn-Mg alloys
[AD-A136212] 09 p1284 N84-18388
Corrosion fatigue of an Al-Zn-Mg alloy and an Al-Mg-Li alloy 21 p3364 N84-31339
Superplasticity in thermomechanically processed high magnesium aluminum-magnesium alloys
[AD-A143164] 21 p3366 N84-31356
Evaluation of the effects of stress state and interfacial properties on the behavior of advanced metal matrix composites
[AD-A143911] 23 p3711 N84-33525
Study of high performance alloy electroforming
[NASA-CR-173979] 23 p3717 N84-33565
Significance of the environment in corrosion cracking of Al-Mg and Al-Li-Mg system alloys
24 p3871 N84-34534

MAGNESIUM CHLORIDES
Process and cell arrangement for producing difficult to reduce elements by fused salt electrolysis
[BLL-OA-TRANS-3137-(6196.3)]
08 p1129 N84-17339
Chromium-magnesium stainless steels, resistant to stress corrosion cracking in magnesium and calcium chloride solutions
[BLL-RISLEY-TRANS-4571-(9091.9)]
22 p3550 N84-32477

MAGNESIUM COMPOUNDS
NT CHLOROPHYLLS
NT DOLOMITE (MINERAL)
NT MAGNESIUM CHLORIDES
NT MAGNESIUM OXIDES
NT PERICLASE
Study of the interaction of organomagnesium compounds with the salts of heavy metals and the use of organomagnesium compounds and their complexes as initiators of polymerization
[BLL-M-28720-(5828.4)] 02 p0198 N84-11292
Use of scanning electron microscopy in studying surface reactions of metals with hydrogen
06 p0816 N84-15318
Polycrystalline MgAl2O4 spinel for high performance windows
[AD-P003202] 17 p2592 N84-26615

MAGNESIUM ISOTOPES
Identification of gamma-ray lines observed from SS433
[DE84-013829] 22 p3681 N84-33335

MAGNESIUM OXIDES
NT PERICLASE
Comparison of the calculated properties of high-angle (001) twist boundaries in MnO, FeO, CoO and NiO with MgO
[DE83-015677] 02 p0201 N84-11307
Hydrogen in MgO crystals thermochemically reduced at very high temperatures
[DE83-014058] 03 p0453 N84-12981
Reinforcing materials based on magnesium oxide
12 p1783 N84-21637
Structure and mechanical properties in the Al2O3-MgO system 19 p2996 N84-28964
Magnesia refractories produced from chemically modified periclase grains and Mg(OH)2 slurries
[PB84-178979] 20 p3165 N84-30099
In-situ TEM investigations of graphic-epitaxy and small particles
[NASA-CR-166593] 21 p3503 N84-32201

MAGNET COILS
NT FIELD COILS
Technical analyses and related planning assistance in supporting of DOE's superconducting magnetic energy storage program
[DE83-012005] 01 p0139 N84-10909

Self-correction coil: Operation mechanism of self-correction coil
[DE83-016324] 03 p0367 N84-12392
Comparative evaluation of existing concepts for a 10-tesla FED toroidal field coil
[DE83-012817] 03 p0429 N84-12815
A model for stresses in circular magnets for toroidal fusion devices
[DE83-016535] 03 p0447 N84-12937
Normal zone detectors for a large number of inductively coupled coils, revision 1
[DE84-011053] 21 p3392 N84-31526
Switching transients in a superconducting coil
[DE84-012592] 21 p3393 N84-31532
Method and apparatus for making superconductive magnet coils
[DE84-014510] 22 p3590 N84-32737

MAGNETIC ABSORPTION
U ELECTROMAGNETIC ABSORPTION

MAGNETIC ANOMALIES
Interpretation of aeromagnetic anomalies of the Quadrilatero Ferrifero region
[INPE-2897-PRE/416] 04 p0582 N84-13707
The magnetic petrology of the deep crust and the interpretation of regional magnetic anomalies
05 p0706 N84-14634
The anomalous magnetoresistance of graphite at high magnetic fields
[AD-A133861] 05 p0753 N84-14938
Investigation of antarctic crust and upper mantle using MAGSAT and other geophysical data
[E84-10055] 06 p0864 N84-15827
Magnetic anomalies in east Pacific using MAGSAT data
[E84-10060] 06 p0864 N84-15830
Role of pressure in understanding the anomalous superconductivity in europium (molybdenum)6(sulfur)8 and (TMTSF)2FSO3
[DE83-017292] 06 p0925 N84-16012
The magnetic petrology of the deep crust and the interpretation of regional magnetic anomalies
[NASA-CR-175407] 10 p1533 N84-20041
Proceedings of Aeromagnetic Data Workshop
[PB84-127125] 10 p1538 N84-20077
Petrologic and geophysical study of the source of long wavelength crustal magnetic anomalies
[NASA-CR-175168] 11 p1677 N84-20946
Use of MAGSAT anomaly data for crustal structure and mineral resources in the US midcontinent
[E84-10112] 13 p2005 N84-23005
Application of Magsat lithospheric modeling in South America. Part 1: Processing and interpretation of magnetic and gravity anomaly data
[E84-10115] 13 p2005 N84-23006
Geophysical investigations of the Dufek intrusion and the surrounding region 14 p2161 N84-23945
Small-scale magnetic features of the polar regions
14 p2162 N84-23949
Geothermal resources of southern Idaho
[USGS-CIRC-866] 14 p2168 N84-23968
Application of MAGSAT to lithospheric modeling in South America. Part 2: Synthesis of geologic and seismic data for development of integrated crustal models
[E84-10128] 15 p2355 N84-25128
Euro-African MAGSAT anomaly-tectonic observations
15 p2355 N84-25129
Correlation of tectonic provinces of South America and the Caribbean region with MAGSAT anomalies
15 p2355 N84-25130
Satellite elevation magnetic and gravity models of major South American plate tectonic features
15 p2355 N84-25131
Reduced to pole long-wavelength magnetic anomalies of Africa and Europe 15 p2355 N84-25132
Satellite magnetic anomalies of Africa and Europe
15 p2356 N84-25133
Do satellite magnetic anomaly data accurately portray the crustal component? 15 p2356 N84-25134
Long-wavelength magnetic and gravity anomaly correlations of Africa and Europe
15 p2356 N84-25135
US aeromagnetic and satellite magnetic anomaly comparisons 15 p2356 N84-25136
Relation of MAGSAT anomalies to the main tectonic provinces of South America 15 p2356 N84-25137
Relation of MAGSAT and gravity anomalies to the main tectonic provinces of South America
15 p2357 N84-25138
A crustal structure study of South America
15 p2357 N84-25139
Magnetic anomalies of the ocean
[AD-A139602] 15 p2373 N84-25234
Method for evaluating parameters of magnetized object of great horizontal extent 17 p2705 N84-27229
Changes in relative instantaneous spreading rates in the Indian Ocean 18 p2858 N84-28149
Spectral approach to interpretation of electromagnetic anomalies in case of E-polarization
18 p2859 N84-28158
Separating normal and anomalous fields using measurements in limited area 18 p2859 N84-28159
Specifics of development of long-term variations in anomalous geomagnetic field on Crimean peninsula
18 p2863 N84-28179
A compilation of mineral occurrences and the relationship of occurrences to structural elements of the Kentucky and Tennessee region
[NASA-CR-175240] 18 p2878 N84-28275
Petrologic and geophysical sources of long-wavelength crustal magnetic anomalies
[NASA-CR-175245] 18 p2878 N84-28276
Interpreting three-dimensional gravitational and magnetic anomalies 20 p3224 N84-30486
Derivation of crustal magnetic anomalies from MAGSAT
[REPT-609] 20 p3240 N84-30569
The near-Earth magnetic field at 1980 determined from MAGSAT data
[E84-10170] 21 p3426 N84-31733
MAGSAT correlations with geoid anomalies — western Gulf of Mexico
[E84-10174] 21 p3427 N84-31736
MAGSAT correlations with geoid anomalies — magnetic anomalies in the western Gulf of Mexico
[E84-10190] 22 p3613 N84-32894
Mapping magnetized geologic structures from space: The effect of orbital and body parameters
[E84-10191] 22 p3614 N84-32895
Quantitative interpretation of aeromagnetic anomalies in the Sinclinal Gandarela
[INPE-3070-PRE/487] 22 p3614 N84-32896
Dynamic model of the Earth's upper atmosphere
[NASA-CR-3835] 22 p3624 N84-32985
Interpretations of magnetic anomalies at a potential repository site located in the Yucca Mountain area, Nevada test site
[DE84-013723] 23 p3798 N84-34085

MAGNETIC BEARINGS
GSFC flywheel status 03 p0344 N84-12230
Magnetic bearings for inertial energy storage
03 p0345 N84-12242

MAGNETIC CHARGE DENSITY
The anomalous magnetoresistance of graphite at high magnetic fields
[AD-A133861] 05 p0753 N84-14938

MAGNETIC CIRCUITS
Magnetic switches and circuits, revision 2
[DE84-014141] 22 p3588 N84-32725

MAGNETIC COILS
NT FIELD COILS
Advanced high-field coil designs: 20 Tesla
[DE83-017368] 03 p0368 N84-12397
Design of the Advanced Toroidal Facility (ATF-1)
[DE83-012641] 03 p0445 N84-12923
Operational studies and expected performance of superconducting quadrupole magnets in the first stages of secondary beams
[DE83-016734] 03 p0456 N84-12999
Locally omnigenous tandem-mirror design
[DE84-001605] 04 p0607 N84-14007
Dissipation of magnetic energy during disruptive current termination — disruptions in tokamak reactors
[IPPJ-844] 06 p0919 N84-15973
Design, construction and test of a 0.61-meter-diameter, epoxy impregnated superconductive magnet
[AD-A135339] 08 p1226 N84-18009
Magnet design approach for pulsed Tokamak reactors
[DE84-005261] 11 p1738 N84-21341
Electromagnetic inspection of wire ropes using sensor arrays
[AD-A141164] 18 p2851 N84-28100
Ceramics for fusion devices
[DE84-011409] 20 p3162 N84-30082
Electromagnetic inspection of wire ropes using sensor arrays
[AD-A142012] 20 p3199 N84-30321
Ring-type support concept for twisted coils (finite element simulation) — stellarators
[IPP-2/271] 20 p3200 N84-30327

MAGNETIC COMPRESSION
Feasibility of a laser or charged-particle-beam fusion-reactor concept with direct electric generation by magnetic-flux compression
[DE83-015735] 03 p0381 N84-12482
Magnetic bubble formation produced by an expanding laser plasma
[AD-A139188] 14 p2228 N84-24359
Magnetic switches and circuits, revision 2
[DE84-014141] 22 p3588 N84-32725

MAGNETIC CONTROL
Magnetic roll/yaw attitude control of a momentum biased near polar orbit satellite
[MBB-UR-629-83-O] 16 p2561 N84-26432

MAGNETIC COOLING
Low-hysteresis materials for magnetic refrigeration: Gd sub 1-x/Er sub x/Al2
[DE84-001685] 04 p0505 N84-13307
Japanese activities in refrigeration technology
06 p0818 N84-15330
Reciprocating magnetic refrigerator employing tandem porous matrices within a reciprocating displacer
[NASA-CASE-NPO-18257-1] 15 p2305 N84-24830
Magnetic refrigeration: The promise and the problems
[DE84-007481] 19 p3002 N84-29028
Magnetic refrigeration development
22 p3573 N84-32626

MAGNETIC CORES
Utilization of amorphous metals in electric motors. Power systems technology program
[DE84-009483] 19 p3018 N84-29136
Improved superconducting magnet wire
[DE84-011233] 21 p3393 N84-31531

MAGNETIC DIFFUSION
Anomalous transport in current sheets
[AD-A136030] 09 p1378 N84-19002

MAGNETIC DIPOLES
Correlation of superconductor strand, cable, and dipole critical currents in CBA magnets
[DE83-003951] 02 p0214 N84-11400
The magnetic field gradiometer
[AD-A131477] 02 p0223 N84-11462
Multidipole magnetic fields for plasma confinement
[DE83-016014] 03 p0450 N84-12960
Magnetic-field considerations in superferric dipole
[DE84-002573] 06 p0907 N84-15892
LBL program of 1 meter long, 50 mm diameter bore, dipoles with fields greater than 8 tesla
[DE84-002902] 07 p1073 N84-16973
Theory of dynamic ferroelectricity
[DE84-002609] 08 p1152 N84-17500
Coupling between 2 arbitrarily oriented dipoles through multilayered shields
[AD-A137129] 10 p1478 N84-19660
Exact image theory for the Sommerfeld half-space problem with a vertical magnetic dipole
[REPT-S-142] 10 p1572 N84-20301
Electrostatic equations for large scale plasma simulation studies
[AD-A143640] 23 p3828 N84-34277

MAGNETIC DISKS
Creation of ultra-high-pressure shocks by the collision of laser-accelerated disks: Experiment and theory
[DE83-017366] 03 p0382 N84-12486
Logic design of a shared disk system in a multi-micro computer environment
[AD-A132165] 04 p0585 N84-13862
Mapping applications of video disc technology
[AD-A135842] 09 p1300 N84-18498
Universal disk controller for microcomputers
[AD-A138333] 12 p1877 N84-22235
MPP disk subsystem
[NASA-CR-175227] 15 p2388 N84-25325
Magnetic record support
[NASA-TM-77619] 24 p3902 N84-34709

MAGNETIC DISPERSION
Finite geometry effects on the stability of a charged beam propagating through a relativistic annular electron beam
[AD-A133338] 06 p0915 N84-15948

MAGNETIC DISTURBANCES
NT MAGNETIC STORMS
Communications magnetospheric substorms
[AD-A133898] 05 p0703 N84-14611
A new model of the geomagnetic variation in the upper atmosphere
[AD-A135210] 08 p1187 N84-17733
Plasma bubble irregularity occurrence and zonal velocities under quiet and disturbed conditions, from polarimeter observations
[INPE-3023-PRE/461] 12 p1846 N84-22036
Influence of electric fields on potential waves in Earth's magnetosphere 17 p2705 N84-27225

MAGNETIC EFFECTS
Pressure studies of organic superconductors
[DE83-015344] 01 p0155 N84-11021
On the field configuration in magnetic clouds
03 p0475 N84-13125
Research on intense electron beams and applications
[AD-A134068] 05 p0743 N84-14882
Magnetic effect of quiet ring current
17 p2708 N84-27244
Uniform magnetic-field-induced free-electron laser in a waveguide
[AD-A141195] 18 p2846 N84-28073
New book discusses normal geomagnetic field
18 p2859 N84-28156

Diffuse auroral zone. Part 7: Dynamics of equatorial boundary in field of diffuse electron spill in evening sector 19 p2973 N84-28646
Reactions of cerebral cortex neurons to alternating magnetic field on glutamic acid 20 p3256 N84-30661
USSR report: Physics and mathematics [JPRS-UPM-84-005] 21 p3484 N84-32061
Influence of exciton movement in magnetic field on luminescence. Indirect forbidden transitions in Ge 21 p3485 N84-32083

MAGNETIC EQUATOR
The initial orientation of homing pigeons on the magnetic equator, with and without Sun compass [INPE-3104-PRE/503] 16 p2534 N84-26271

MAGNETIC FIELD CONFIGURATIONS
Construction of three-dimensional vacuum magnetic fields with dense nested flux surfaces [DE83-012600] 02 p0287 N84-11880
Fokker-Planck equation in mirror research [DE83-016586] 03 p0446 N84-12932
Three-dimensional equilibrium in quadrupole symmetric tandem mirrors in the paraxial limit (reduced MHD) [DE83-017840] 03 p0447 N84-12940
Multidipole magnetic fields for plasma confinement [DE83-016014] 03 p0450 N84-12960
Effect of magnetic bending on the high-frequency stability of the ELMO Bumpy Torus [DE83-017177] 03 p0450 N84-12961
Interplanetary Alfvenic fluctuations: A statistical study of the directional variations of the magnetic field [IFSI-82-14] 03 p0463 N84-13050
Solar Wind Five [NASA-CP-2280] 03 p0466 N84-13067
Observations of hydromagnetic turbulence in the solar wind 03 p0467 N84-13074
Energetic plasma-beam propagation in weak and strong magnetic fields [DE84-001362] 04 p0807 N84-14005
Energetic-particle stabilization of ballooning modes in Tokamaks [DE83-016205] 04 p0809 N84-14020
Study on diffusion of the vertical magnetic field in the toroidal stabilizing shell of the ZT-40M reversed-field-pinch device [DE83-016353] 04 p0810 N84-14023
Linear relativistic gyrokinetic equation in general magnetically confined plasmas [DE84-000048] 04 p0810 N84-14027
High power, very broadband microwave radiation from the interaction of a relativistic electron beam with plasmas in the low magnetic field regime, with application to the type 3 solar burst phenomenon 05 p0865 N84-14371
Study of limiter damage in a magnetic-field error region of the ZT-40M experiment [DE84-001711] 05 p0750 N84-14824
Elimination of stochasticity in stellarators [DE84-001560] 06 p0921 N84-15965
Magnetopause studies using data from the ISEE mission [NASA-CR-175208] 08 p1185 N84-17718
Magnetic field reconnection at the magnetopause: An overview 08 p1185 N84-17719
Anomalous transport in current sheets [AD-A136030] 09 p1378 N84-19002
Particle simulation of drift waves in a sheared magnetic field [DE84-004026] 09 p1393 N84-19093
Anomalous resistivity at the field null of the FRC: A quasi-linear expression based upon flute-type modes [DE84-003556] 09 p1393 N84-19094
Plasma sheet behavior during substorms [DE84-003633] 10 p1537 N84-20070
Poloidal field system design for the ZT-H reversed field pinch experiment [DE84-004328] 10 p1566 N84-20386
Reconnections in Spheromak formation and sustainment [DE84-004157] 10 p1566 N84-20396
Solar flares: An extreme of reconnection [DE84-004413] 10 p1597 N84-20467
Compact toroids with rotating halo-the spintor [IPPJ-858] 11 p1734 N84-21306
Magnetic field topologies of the relaxed states of turbulent discharges [DE84-004330] 11 p1737 N84-21334
Computer simulation of reconnection in planetary magnetospheres [DE84-001389] 11 p1758 N84-21479
Study of generalized toroidal cusp configurations [DE84-006662] 14 p2229 N84-24369
Relativistic correlation theory of atomic structures [DE84-006745] 14 p2230 N84-24372
Translation of field-reverse configurations in the FRX C/T experiment [DE84-007489] 14 p2230 N84-24376
Coaxial slow source: A quasi-static FRC formation concept [DE84-007476] 14 p2230 N84-24377
Recent progress on ATF [DE84-007523] 15 p2411 N84-25476
One-dimensional transport code for field-reversed configurations [DE84-007449] 15 p2411 N84-25477
Sustainment dynamo reexamined: Nonlocal electrical conductivity of plasma in a stochastic magnetic field [DE84-007485] 15 p2412 N84-25478
Interaction of the neutral deuterium flux with a field-reversed configuration [DE84-007488] 16 p2559 N84-26415
Flux diffusion and acceleration in a high current modified betatron [AD-A141277] 18 p2931 N84-28584
Orbital stability in combined uniform axial and three-dimensional wiggler magnetic fields for free-electron lasers [NASA-TM-83753] 20 p3192 N84-30273
Hamiltonian structure of field-line equations [DE84-011019] 20 p3282 N84-30836
Internal magnetic field measurements in a translating field-reversed configuration [DE84-010054] 20 p3284 N84-30854
Ohmic heating to 100-eV and helicity injection in CTX [DE84-007494] 20 p3304 N84-30986
A survey of the methods of MHD analysis of magnetic islands [DE84-006858] 21 p3502 N84-32197
Physics issues in mirror and tandem mirror systems [DE84-013837] 22 p3660 N84-33201

MAGNETIC FIELD INTENSITY
U MAGNETIC FLUX

MAGNETIC FIELD INVERSIONS
A method for the optimization of the geometry and the magnetization of magnetized bodies that are assumed for the solution of the inverse magnetic field problem 23 p3776 N84-33942

MAGNETIC FIELDS
NT BIOMAGNETISM
NT FORCE-FREE MAGNETIC FIELDS
NT GEOMAGNETISM
NT INTERPLANETARY MAGNETIC FIELDS
NT MAGNETOSTATIC FIELDS
NT PALEOMAGNETISM
NT PLANETARY MAGNETIC FIELDS
NT SOLAR MAGNETIC FIELD
NT STELLAR MAGNETIC FIELDS
Investigation of magnetic field measurements [AD-A130422] 01 p0138 N84-10904
Variational method for the three-dimensional inverse-equilibrium problem in toroids: Part 2 [DE83-012925] 01 p0149 N84-10981
The 2-step ECRH current-drive study [DE83-012745] 01 p0150 N84-10983
Solar magnetic fields study [AD-A130491] 01 p0166 N84-11088
The magnetic field gradiometer [AD-A131477] 02 p0223 N84-11462
Closed energy cycle with MRD generator using T-layer effect [AD-A131136] 02 p0242 N84-11583
Application of the Lienard-Wiechert solution to a lightning return stroke model [NASA-TM-85082] 02 p0253 N84-11658
Condition of erythrocytes during long-term exposure to magnetic field 02 p0261 N84-11711
Solutions of a 4th order differential equation describing mode conversion in a magnetized plasma [AD-A131600] 02 p0281 N84-11840
Forming of magnetic fields with complex law of variation in time [AD-A131128] 02 p0287 N84-11879
Influence of the magnetic field in the temporal evolution of solar flare X-ray and microwave radiation [INPE-2842-TDL/140] 02 p0308 N84-12020
Techniques for locating a remote HF transmitter from single-site measurements [AD-A132014] 03 p0360 N84-12342
Synchronous generators with superconductive excitation windings [AD-A131832] 03 p0366 N84-12382
A high-performance digital triggering system for phase-controlled rectifiers [DE83-012217] 03 p0367 N84-12386
Problem of magnet ramping [DE83-014054] 03 p0368 N84-12399
Storage of energy in magnetic field of superconductive coils [AD-A131898] 03 p0403 N84-12636
Eruption of permanent dentition in rhesus monkeys exposed to ELF (Extremely low frequency) fields [AD-A132065] 03 p0413 N84-12703
Dissipative instabilities of magnetic neutral layers with velocity shear [IFSI-82-13] 03 p0451 N84-12985
Direct coronal heating from dissipation of magnetic field 03 p0466 N84-13069
Solar cycle variations of the solar wind 03 p0469 N84-13089
Solar cycle evolution of the solar wind in three dimensions 03 p0469 N84-13090
Solar cycle variations in the interplanetary magnetic field 03 p0469 N84-13091
Plasma properties of driver gas following interplanetary shocks observed by ISEE-3 03 p0474 N84-13123
Ideal of the perfect magnet-superconducting systems [DE83-015080] 04 p0529 N84-13482
Energization of ions by oblique double layers 04 p0561 N84-13700
Locally omnigenous tandem-mirror design [DE84-001605] 04 p0607 N84-14007
Hybrid ion diode theory and computations [DE84-000102] 04 p0610 N84-14029
Magnetic heading reference [NASA-CASE-LAR-12638-1] 05 p0629 N84-14132
Magnetic field coupled velocimeters [AD-A134002] 05 p0679 N84-14486
High latitude field aligned currents 05 p0702 N84-14605
On the analytical form of the Earth's magnetic attraction expressed as a function of time [NASA-TM-77344] 05 p0702 N84-14609
Three-dimensional magnetotelluric interpretation 05 p0706 N84-14632
Human reactions to elf electric and magnetic fields: An annotated bibliography of current literature, 3rd edition [PB83-259648] 05 p0714 N84-14679
Thermionic cathode, MITL (Magnetically Insulated Transmission Line) and auxiliary coils systems investigations for the modified betatron [AD-A133757] 05 p0744 N84-14887
Magnetic fluctuations in high-beta sub p Tokamak plasmas [DE83-015872] 05 p0751 N84-14929
The anomalous magnetoresistance of graphite at high magnetic fields [AD-A133861] 05 p0753 N84-14938
Concerning the possibility of employing superconducting systems for analyzing the composition of cosmic rays [AD-A133792] 05 p0765 N84-15021
Magnetic-field considerations in superferric dipole [DE84-002573] 06 p0907 N84-15892
Observation of magnetic fields in laser-produced plasma using the Zeeman effect [DE84-002742] 06 p0921 N84-15989
A feasibility study of electromagnetic DE-spin system for Earth orbiting satellites 06 p0930 N84-16040
The harmonic structure of PC 3-4 magnetic pulsations at geosynchronous orbit and its relation to the solar wind 06 p0940 N84-16106
Brushless self-excited type three-phase synchronous motor driven by GTO inverter 07 p0983 N84-16366
Maximum-efficiency dc-motor project for electric vehicles [DE84-000791] 07 p0999 N84-16479
Some comments on the design of electron storage rings for free electron lasers [DE84-002869] 07 p1010 N84-16553
Energy transfer by magnetopause reconnection and the substorm parameter epsilon [INPE-2908-PRE/422] 07 p1031 N84-16690
Permeability of sodium sulfacyl through membrane structures differing in degree of organization with exposure to low-frequency magnetic field 07 p1043 N84-16763
Influence of variable magnetic field on bactericidal effect of ionizing radiation 07 p1043 N84-16765
Comparative characteristics of erythron reactions to hypoxic hypoxia, immobilization and high-intensity stationary magnetic field 07 p1046 N84-16785
Development of power system measurements [PB84-109891] 08 p1153 N84-17509
ISEE observations of magnetopause reconnection: The energy balance 08 p1185 N84-17720
Studies of electrically stimulated rat limb and peripheral nerve regeneration [AD-A134358] 08 p1197 N84-17806
Form coefficient for the field of a superconducting synchronous machine [AD-A134751] 08 p1226 N84-18010
Calculating the magnetic field from a saddle-shaped coil without a ferromagnetic circuit [AD-A134776] 08 p1226 N84-18011

Nonlinear orbits in free-electron lasers with a linear magnetic wiggler and a strong axial magnetic guide field
[AD-A135984] 09 p1323 N84-18642
Upper atmosphere research at Rhodes University since 1940: A review 09 p1344 N84-18779
An investigation of RF currents in a magnetized plasma using a slow wave structure
[AD-A135880] 09 p1385 N84-19047
Equilibria in strongly magnetized pair plasmas 09 p1407 N84-19191
Advanced ion thruster research
[NASA-CR-168340] 10 p1450 N84-19467
Magneto-mechanical effects in 304 stainless steels
[DE84-004343] 10 p1462 N84-19546
Evaluation of advanced technologies for power transformers
[DE84-004046] 10 p1487 N84-19719
Plasma magnetic field measurement by intracavity absorption
[DE84-005152] 10 p1500 N84-19806
Dynamic signatures of quiet sun magnetic fields
[NASA-CR-173361] 10 p1597 N84-20464
A micro-computer based system to compute magnetic variation
[NASA-CR-173376] 11 p1604 N84-20506
General Electromagnetic Model for the Analysis of Complex Systems (GEMACS) computer code documentation (version 3), volume 3, part 2
[AD-A137464] 11 p1644 N84-20750
Measurement of diffusion constant by pulsed magnetic field gradient NMR in Ag26I13W4O16 RbAg4I5 and KAg4I5 11 p1743 N84-21373
Lightning data analysis
[AD-A136136] 12 p1860 N84-22118
Biological effects of electric fields: An overview
[DE84-005888] 12 p1864 N84-22144
Integrated optical signal processing with magnetostatic waves 12 p1907 N84-22420
Field generated within the SSC magnets due to persistent currents in the superconductor
[DE84-006629] 12 p1915 N84-22476
Three-dimensional computer modeling of dynamic reconnection in the magnetotail
[DE84-007480] 14 p2176 N84-24037
Scaling of the beam plasma discharge for low magnetic fields
[AD-A139415] 14 p2229 N84-24363
Computer modeling of fast collisionless reconnection
[DE84-006714] 14 p2229 N84-24367
Saturated tearing modes in Tokamaks, renewal proposal
[DE84-006851] 14 p2229 N84-24370
Zeeman coherence effects in absorptive polarization bistability 14 p2235 N84-24412
Critical slowing down and magnetically-induced self-pulsing in a sodium-filled Fabry-Perot resonator 14 p2240 N84-24449
Trapped-proton energy spectrum determination (M0002-1) 15 p2276 N84-24683
Mouse adrenal corticosterone content during prolonged exposure to high-intensity stationary magnetic field 15 p2378 N84-25269
Pair production rates in mildly relativistic, magnetized plasmas
[NASA-TM-86103] 15 p2405 N84-25434
Computer optimization of a linac injector trajectory
[DE84-005034] 15 p2408 N84-25456
Magnetohydrodynamic power generation
[NASA-TP-2331] 15 p2409 N84-25458
Pulsed magnetic field testing of multifilamentary Nb3Sn superconducting wire
[DE84-006250] 15 p2414 N84-25492
Very large array observations of solar active regions
[AD-A139287] 15 p2428 N84-25586
Magnetically enhanced hydrogen gas dissociator: A progress report 16 p2479 N84-25892
Particle acceleration by turbulent magnetohydro-dynamic reconnection
[NASA-TM-86121] 16 p2556 N84-26409
Production of plasma with variable, radial electric fields
[NASA-CR-173434] 16 p2556 N84-26413
Application of a global solar wind/planetary obstacle interaction computational model: Earth, Venus, Mars, Jupiter and Saturn studies
[NASA-CR-173531] 16 p2572 N84-26509
Application of a global solar wind/planetary obstacle interaction computational model: Earth, Venus, Mars, Jupiter and Saturn studies 16 p2572 N84-26510
Patterns of magnetic field merging sites on the magnetopause 16 p2572 N84-26511
Characteristics of the magnetoepheric source of interplanetary energetic particles 16 p2573 N84-26512
Magnetopause merging site asymmetries 16 p2573 N84-26513
Magnetic field draping against the dayside magnetopause 16 p2573 N84-26514
The magnetic field of Mars: Implications from gasdynamics modeling 16 p2573 N84-26515
MHD (Magnetohydrodynamic) simulation of a comet magnetosphere
[AD-A140208] 16 p2580 N84-26546
The 1/f noise in conditions of high geometrical magnetoresistances 17 p2636 N84-26862
Representative electromagnetic field intensities near the Clam Lake, Wisconsin and Republic, Michigan ELF (Extremely Low Frequency) facilities
[AD-A140798] 17 p2654 N84-26972
Allowance for geomagnetic field variations and tie-in of observations in highly precise aeromagnetic surveys 17 p2704 N84-27221
A comparative review of bow shocks and magnetopauses
[NASA-TM-86114] 17 p2726 N84-27353
The Z3 model of Saturns magnetic field and the Pioneer 11 vector helium magnetometer observations
[NASA-TM-86118] 17 p2776 N84-27623
Passage of strong electromagnetic pulse through semiconductor in external magnetic field 18 p2824 N84-27930
Impact ionization in semiconductors by microwave field in the presence of an arbitrarily oriented constant magnetic field 18 p2825 N84-27932
Uniform magnetic-field-induced free-electron laser in a waveguide
[AD-A141195] 18 p2846 N84-28073
Separating normal and anomalous fields using measurements in limited area 18 p2859 N84-28159
Normal magnetic field maps for Caucasus region for epoch 1980 18 p2861 N84-28168
Neuromagnetic investigation of workload and attention
[AD-A140946] 18 p2900 N84-28394
Dynamical properties of disordered systems
[AD-A141597] 19 p3085 N84-29580
The dc acceleration of charged particles by an electrostatic wave propagating obliquely to a magnetic field vector B sub O
[IPPJ-671] 19 p3106 N84-29735
Exploration of phase stability in the surfatron accelerator
[DE84-011416] 20 p3193 N84-30280
Derivation of crustal magnetic anomalies from MAGSAT
[REPT-609] 20 p3240 N84-30569
Effect of constant and low-frequency magnetic fields on biological systems 20 p3258 N84-30679
Reactions of cerebral cortex neurons to alternating magnetic field on glutamic acid 20 p3258 N84-30681
Nonlinear dynamics of magnetic islands with curvature and pressure
[DE84-010968] 20 p3285 N84-30859
USSR report: Physics and mathematics
[JPRS-UPM-84-001] 20 p3285 N84-30862
Polarization of paraexciton luminescence in Cu2O crystals in magnetic field 20 p3287 N84-30870
Instability of collapsing cylindrical shell during magnetic energy density 20 p3287 N84-30872
Excitation of quasi-static magnetic fields in axial structures 20 p3287 N84-30873
Plasma in diverter during intense recycling 20 p3288 N84-30877
Electron motion in solenoidal magnetic fields using a first order symplectric integration algorithm
[DE84-011341] 20 p3293 N84-30910
Method and source for producing a high concentration of positively charged molecular hydrogen or deuterium ions
[DE84-011030] 20 p3295 N84-30918
Formation of spatial Alfven resonance and global modes in an inhomogeneous plasma
[IPPJ-674] 20 p3302 N84-30966
High-gradient, pulsed operation of superconducting niobium cavities
[DE84-012498] 20 p3311 N84-31030
The galactic acceleration of ultrahigh energy cosmic rays
[DE84-012442] 20 p3320 N84-31060
The near-Earth magnetic field at 1980 determined from MAGSAT data
[E84-10170] 21 p3426 N84-31733
Suprathermal ions upstream of the Earth's bow shock
[DE84-012625] 21 p3444 N84-31855
Amplification of traveling magnetostatic waves by parametric pumping 21 p3479 N84-32050
Influence of exciton movement in magnetic field on luminescence. Indirect forbidden transitions in Ge 21 p3485 N84-32083
Production of dense plasma column in strong magnetic fields and its diagnosis by laser methods 21 p3488 N84-32104
Plasma beam instability of bounded electron beam in weak magnetic field 21 p3488 N84-32105
Protective plasma envelope
[DE84-013316] 21 p3502 N84-32194
Broadside radar cross section of the perfectly conducting cube
[AD-A143321] 22 p3577 N84-32656
Pulsed power for racetrack induction accelerators
[AD-A143289] 22 p3653 N84-33157
Fiber optic sensor with enhanced immunity to random environmental perturbations
[AD-D011115] 22 p3656 N84-33174
Influence of magnetic shear on the collisional current driven ion cyclotron instability
[AD-A143391] 22 p3659 N84-33191
Quantum transport in low dimensional disordered systems 22 p3682 N84-33347
MHD technology in aluminum casting 23 p3706 N84-33491
Gallium arsenide field-effect transistor magnetic field studies
[AD-A144058] 23 p3742 N84-33721
Distributed pulse forming network for magnetic modulator
[AD-D011062] 23 p3791 N84-34041
Experimental research on electric propulsion. Note 5: Experimental study of a magnetic field stabilized arc-jet
[NASA-TM-77474] 23 p3826 N84-34266
A users guide to KLYSMA 2: A multifluid transport code
[AD-A143784] 23 p3828 N84-34278
Solar Terrestrial Physics: Present and Future
[NASA-RP-1120] 23 p3836 N84-34332
Reconnection of magnetic fields 23 p3836 N84-34333
Large-scale, near-Earth, magnetic fields from external sources and the corresponding induced internal field
[NASA-TM-85012] 24 p3918 N84-34807
Zeeman studies of shallow donors and excitons in quantum wells
[AD-A144487] 24 p3967 N84-35121

MAGNETIC FILMS

A program of research on microfabrication techniques for VLSI magnetic devices
[AD-A131706] 03 p0452 N84-12978

MAGNETIC FLUX

Experimental investigation of explosive-driven plasma-compression opening switches
[DE83-0124200] 02 p0214 N84-11399
Ionospheric irregularities and geomagnetic field fluctuations due to ionospheric heating 05 p0636 N84-14184
Ambipolar diffusion in interstellar clouds: One-dimensional, isothermal collapse 06 p0939 N84-16099
Solar flares: An extreme of reconnection
[DE84-004413] 10 p1597 N84-20467
Atomic hydrogen beam probing with spectroscopic technique 11 p1736 N84-21324
Computer simulation of reconnection in planetary magnetospheres
[DE84-001389] 11 p1758 N84-21479
Magnetoacoustic heating and Flux-Conserving-Tokamak (FCT) equilibria in a belt pinch
[IPF-83-4] 14 p2231 N84-24380
Dilute plasma coupling currents to a high voltage solar array in weak magnetic fields
[NASA-TM-83687] 15 p2283 N84-24708
Extragalactic radio sources
[NASA-CR-173606] 16 p2582 N84-26557
Limb darkening variations 17 p2779 N84-27645
Electromagnetic inspection of wire ropes using sensor arrays
[AD-A142012] 20 p3199 N84-30321
Solar Terrestrial Physics: Present and Future
[NASA-RP-1120] 23 p3836 N84-34332
Evolution of solar magnetic flux 23 p3836 N84-34335

MAGNETIC INDUCTION

Steam turbine as unipolar generator
[AD-A131142] 03 p0383 N84-12498
Hazard analysis for magnetic induction from electric transmission lines
[PB84-125236] 10 p1473 N84-19619
Transient processes in an inductor system consisting of a flat coil and a multilayer conducting medium
[AD-A139053] 13 p2039 N84-23232
Stability of permanent magnets
[AD-A139471] 14 p2220 N84-24320
New 1-phase dual converter for superconducting inductive energy storage and transfer applications: The 1-phase inductor-converter bridge
[DE84-012118] 20 p3179 N84-30193
Cold-cathode gas-discharge modulator power tube 21 p3379 N84-31443

Solar influence on terrestrial weather and global lightning patterns via cosmic ray modulations
24 p3927 N84-34855

MAGNETIC INDUCTION PROBES
U MAGNETIC PROBES

MAGNETIC MATERIALS
NT FERROFLUIDS
NT FERROMAGNETIC FILMS
NT FERROMAGNETIC MATERIALS
NT MAGNETITE
Study of materials having significance for high energy magnet production and for hydrogen storage
[AD-A130900] 01 p0138 N84-10906
Anisotropy and microstructure of Sm2(Co, Fe, Cu, Zr)17 magnetic materials
[AD-A131961] 03 p0352 N84-12291
Emission-proof valves — for chemical plants
[BMFT-FB-HA-83-028] 10 p1503 N84-19822
Studies of coercive force of permanent magnet materials
[AD-A136123] 12 p1898 N84-22360
Amorphous metals with high magnetic permeability
[BMFT-FB-T-84-056] 19 p2996 N84-28983
Magnetic refrigeration: The promise and the problems
[DE84-007481] 19 p3002 N84-29026
Biasing and fast degaussing circuit for magnetic materials
[DE84-011281] 20 p3285 N84-30857

MAGNETIC MEASUREMENT
Measurement of lung function using the magnetometer system
[AD-A130841] 01 p0114 N84-10736
General purpose magnetic-measurement data-acquisition system
[DE84-001101] 05 p0759 N84-14982
Observations of short period magnetic pulsations during the SBARMO-79 campaign: Data summary
[REPT-90/1982] 13 p2012 N84-23052
Quick-look tables of continuous pulsations (Pc1) and Intervals of Pulsations of Diminishing Periods (IPDP) magnetic pulsation events recorded in Finland during IMS years 1976-1979: Data summary
[REPT-92/1982] 13 p2012 N84-23053
Determination of propped fracture length by detection of injected magnetic material with surface superconducting magnetometers
[PB84-181320] 17 p2696 N84-27176
Economical difference methods for solving direct problems in gravimetric and magnetic prospecting
17 p2702 N84-27209
Uniqueness in plane inverse problems in gravimetry and magnetometry 17 p2705 N84-27226
The magnetic field experiment for the Venus-Halley (VEGA) mission
[IWF-8301] 17 p2777 N84-27633
Solution of direct three-dimensional problems in gravimetry and magnetometry with arbitrary continuous laws of density and magnetization distribution
18 p2861 N84-28169
Magnetic results 1982: Eskdalemuir, Hartland and Lerwick Observatories
[BULL-15] 18 p2880 N84-28289
Interpreting three-dimensional gravitational and magnetic anomalies 20 p3224 N84-30486
Detecting optical polarization of nuclei in semiconductors with super-conducting quantum interferometer
20 p3286 N84-30665
Mapping magnetized geologic structures from space: The effect of orbital and body parameters
[E84-10191] 22 p3614 N84-32895
Real-time solar magnetograph operation system software design and user's guide
[NASA-TM-86467] 24 p3945 N84-34976

MAGNETIC MEMORIES
U MAGNETIC STORAGE

MAGNETIC METALS
U MAGNETIC MATERIALS
U METALS

MAGNETIC MIRRORS
Initial assessment of the MHD stability of TMX-U
[DE83-016521] 03 p0404 N84-12646
Magnetic trapping of intense ion beams
[DE83-017356] 03 p0437 N84-12666
Summary of the MARS tandem-mirror reactor design
[DE83-017293] 03 p0447 N84-12939
Three-dimensional equilibrium in quadrupole symmetric tandem mirrors in the paraxial limit (reduced MHD)
[DE83-017840] 03 p0447 N84-12940
Vacuum measurements on the tandem mirror experiment upgrade (TMX-U) fusion experiment
[DE83-017836] 03 p0448 N84-12946
Status of tandem-mirror confinement
[DE83-017369] 03 p0448 N84-12948
Drift wave studies in a linear multiple mirror
[DE83-016881] 03 p0449 N84-12951
Thermal barriers: Their purpose and functioning
[DE83-017365] 03 p0449 N84-12954
TMX-U experimental results
[DE83-016790] 03 p0449 N84-12955
Thermal performance of the MFTF magnets
[DE83-016275] 03 p0454 N84-12988
Construction and operational experience of the tandem mirror experiment-upgrade (TMX-U)
[DE83-018181] 04 p0605 N84-13995
Locally omnigenous tandem-mirror design
[DE84-001605] 04 p0607 N84-14007
Evolution of the mirror machine
[DE83-016942] 04 p0607 N84-14009
TMX-U diagnostic system
[DE83-017834] 04 p0608 N84-14015
Magnetic mirror fusion power systems
[DE84-002799] 07 p1077 N84-17005
Gas box control system for tandem mirror experiment upgrade
[DE84-003245] 07 p1078 N84-17008
Review of the tandem mirror experiment-upgrade (TMX-U) machine-parameter-instrumentation system
[DE84-003243] 07 p1078 N84-17009
Design and fabrication of circular and rectangular components for electron-cyclotron-resonant heating of tandem mirror experiment-upgrade
[DE84-003244] 07 p1078 N84-17010
Conceptual design of the RFC reactor
[IPPJ-659] 11 p1733 N84-21304
Bounce resonance heating and radial transport of electrons in magnetic mirrors
[IPPJ-654] 11 p1734 N84-21309
Negative ion beam requirements for compact tori
[DE84-005752] 12 p1910 N84-22447
Ballooning precessional instabilities in a single cell hot electron plasma
[DE84-007017] 14 p2230 N84-24373
Rapidly convergent algorithms for 3-D tandem and stellarator equilibria in the paraxial approximation
[DE84-009688] 18 p2933 N84-28603
World survey of magnetic mirror confinement research facilities
[DE84-009715] 19 p3108 N84-29749
Acceleration of ions and electrons by wave-particle interactions
[AD-A142341] 20 p3292 N84-30900
Electron cyclotron radiation from mirror-confined plasma
[DE84-008665] 20 p3302 N84-30970
Theoretical aspects of mirror fusion
[DE84-009139] 20 p3305 N84-30988

MAGNETIC MOMENTS
Nuclear moment alignment, relaxation and detection mechanisms
[AD-A131546] 02 p0223 N84-11464
Radial evolution of ion distribution functions
03 p0470 N84-13094
Localized magnetization arising from spin-dependent impurity potentials in the Wolff model
[AD-A133652] 05 p0742 N84-14871
A radiometric Bode's Law: Predictions for Uranus
[NASA-TM-86074] 17 p2781 N84-27659

MAGNETIC MONOPOLES
Future search for grand unified theory magnetic monopoles
[DE83-009451] 06 p0926 N84-16015
Physics, Computer Science and Mathematics Division
[DE84-003915] 09 p1418 N84-19278
Current tube description of the focus plasma
10 p1584 N84-20379
Excitation of simple atoms by slow magnetic monopoles
[DE84-006209] 12 p1903 N84-22393
High energy physics research at Texas Agriculture and Mining University — magnetic monopoles in cosmic rays and hadron calorimeter design
[DE84-011616] 22 p3655 N84-33167

MAGNETIC PERMEABILITY
Metal-insulator-metal junctions as surface sources of intermodulation
[AD-A130451] 01 p0043 N84-10279
Magnetic susceptibility of Fe-B, Fe - P and Ni - P alloys
[BLL-M-35126-(5828.4)] 01 p0138 N84-10902
Homogeneity and magnetic susceptibility in some substituted cadmium spinels
[AD-A135297] 08 p1131 N84-17357
Specific heat of He-3 in the Fermi-liquid region
[DE83-014858] 08 p1162 N84-17566
Development of low cost amorphous materials with high saturation flux density
[BMFT-FB-T-83-213] 10 p1463 N84-19558
Acoustic emission accompanying phase change in deformed 1H18N9T steel
[ISSN-0208-5658] 19 p2991 N84-28952
Texture effect on anisotropy of electric and magnetic properties of titanium alpha-alloys
23 p3708 N84-33506
An experimental study of praseodymium intermetallic compounds at low temperatures
[DE83-704748] 24 p3884 N84-34612

MAGNETIC POLES
Motion of virtual geomagnetic pole
18 p2862 N84-28173
Observations of long-period motions of the Earth at the South Pole 21 p3440 N84-31823

MAGNETIC PROBES
Precisely aligned internal magnetic probes for the reversed-field pinch experiment, ZT-40
[DE84-003704] 08 p1233 N84-18058
Research support for plasma diagnostics on Elmo Bumpy Torus - development of a multichannel Hall-probe based diamagnetic diagnostic instrument and observation and modeling of EBT electron rings
[DE84-008810] 18 p2933 N84-28600
Fiber optic current probe
[DE84-007964] 19 p3105 N84-29729

MAGNETIC PROPERTIES
NT ANTIFERROMAGNETISM
NT BIOMAGNETISM
NT CURIE TEMPERATURE
NT DIAMAGNETISM
NT FERRIMAGNETISM
NT FERROMAGNETISM
NT GEOMAGNETISM
NT GYROFREQUENCY
NT MAGNETIC EFFECTS
NT MAGNETIC INDUCTION
NT MAGNETIC MOMENTS
NT MAGNETIC PERMEABILITY
NT MAGNETIC SUSPENSION
NT MAGNETORESISTIVITY
NT MAGNETOSTRICTION
NT PALEOMAGNETISM
NT PARAMAGNETISM
NT POLARIZATION CHARACTERISTICS
NT RELUCTANCE
NT REMANENCE
NT SPIN-LATTICE RELAXATION
NT THERMOMAGNETIC EFFECTS
Magnetic properties and structure of monocrystals of Fe-24 percent Cr-15 percent Co-8 percent W alloys
[BLL-M-35131-(5828.4)] 01 p0040 N84-10253
Progress in developing repetitive pulse systems utilizing inductive energy storage
[DE83-015167] 03 p0367 N84-12388
On the field configuration in magnetic clouds
03 p0475 N84-13125
Penetrant and magnetic-particle inspection for material integrity
[DE83-017830] 04 p0546 N84-13600
Magnetic properties of Mo/Ni superlattices
[DE84-000568] 04 p0614 N84-14053
Magnetic properties of CoCl2-intercalated graphite
[AD-A133860] 05 p0648 N84-14260
Magnetic properties of iron and low-carbon steel for soft magnet application
[AD-A134120] 05 p0653 N84-14292
Calculation of structures and magnetic orientations in solid alpha- and beta-O-2 as a function of pressure
[DE83-015215] 05 p0756 N84-14958
Program in marine physics applied to Navy undersea missions
[AD-A133119] 06 p0885 N84-15753
Investigation of the paramagnetic phase of BCC iron using polarized neutron scattering
[DE84-002857] 07 p0974 N84-16315
Crystal fields and second order magnetic hyperfine interactions in TmFe2Si2
[DE84-003622] 08 p1236 N84-18078
Grain size in sintered samarium-cobalt alloys and their coercive force
[BLL-M-35406(5826.4)] 09 p1281 N84-18365
Longitudinal resistivity and intermediate Mach number collisionless transverse magnetosonic shocks
[AD-A137122] 10 p1491 N84-19749
Aeromagnetic map of Yucca Mountain and surrounding regions, southwest Nevada
[DE84-003920] 10 p1526 N84-19995
A study of the magnetic and metallurgical properties of Sm(Co,Fe,Cu, Zr) sub z alloys near z = 8.5
[AD-A138253] 12 p1798 N84-21726
Magnetic impurities in superconductors
[DE84-007871] 14 p2243 N84-24467
K-band latching switches
[NASA-CR-168253] 15 p2327 N84-24973
Dynamics of itinerant ferromagnets above T sub c
[DE84-002695] 15 p2402 N84-25420
Magnetic properties of Martian surface material
[NASA-CR-173491] 15 p2425 N84-25566

The origin of magnemite on Mars
[NASA-CR-173492] 16 p2579 N84-26543
SEM (Scanning-Electron-Microscopy) studies of magnetic domains in amorphous metals
[AD-A140718] 17 p2624 N84-26793
Neutron diffraction studies of some rare earth-transition metal deuterides
[AD-A140757] 17 p2764 N84-27557
Noncubic magnetic anisotropy in YSmLuCaFeGe garnet films 20 p3287 N84-30869
Producing thermomagnetic alloy by powder metallurgy
[BLL-M-35668-(5828.4)] 22 p3553 N84-32500
Interpretations of magnetic anomalies at a potential repository site located in the Yucca Mountain area, Nevada test site
[DE84-013723] 23 p3798 N84-34085

MAGNETIC PUMPING
Harmonic generation in paramagnetic spin systems
[AD-A130895] 01 p0153 N84-11004
Amplification of traveling magnetostatic waves by parametric pumping 21 p3479 N84-32050

MAGNETIC RECORDING
Coding of color video signals for digital magnetic tape recording at low bit rates
[BMFT-FB-T-83-185] 07 p0995 N84-16450
Device for marking and searching for information on a magnetic carrier
[AD-A139393] 14 p2148 N84-23867
Study of future recorders for ESA
[ESA-CR(P)-1864] 16 p2496 N84-26018
Magnetic record support
[NASA-TM-77619] 24 p3902 N84-34709

MAGNETIC RELAXATION
NT SPIN-LATTICE RELAXATION

MAGNETIC RESONANCE
NT ELECTRON PARAMAGNETIC RESONANCE
NT FERROMAGNETIC RESONANCE
NT NUCLEAR MAGNETIC RESONANCE
NT PROTON MAGNETIC RESONANCE
Geomagnetic pulsations-production/interpretation
[AD-A131448] 02 p0249 N84-11629
Investigations of radical-radical reactions using a far infrared Laser Magnetic Resonance (FIr-LMR) spectrometer
[MPIS-4/1983] 13 p1958 N84-22730
Experimental observation of the shear Alfven resonance in a Tokamak
[DE84-012993] 20 p3306 N84-30998
Microwave and quantum magnetics
22 p3683 N84-33348
Investigation of reactions of the methylene radical by means of a far infrared-laser magnetic resonance (FIR-LMR) spectrometer
[MPIS-4/1984] 24 p3881 N84-34588

MAGNETIC SHIELDING
Linear stability of general magnetically insulated electron flow
[DE84-010148] 19 p3018 N84-29138

MAGNETIC SIGNATURES
The new MSFC Solar vector magnetograph. Center director's discretionary fund
[NASA-TM-82568] 10 p1497 N84-19786
Dynamic signatures of quiet sun magnetic fields
[NASA-CR-173361] 10 p1597 N84-20464
Petrologic and geophysical study of the source of long wavelength crustal magnetic anomalies
[NASA-CR-175168] 11 p1677 N84-20946
A study of geomagnetic pulsations using the AFGL (Air Force Geophysics Laboratory) magnetometer network
[AD-A140507] 16 p2526 N84-26217
Thule Geophysical Observatory: Magnetic results, 1978
[ISBN-87-7478-211-8] 19 p3053 N84-29372
Godhavn Geophysical Observatory: Magnetic results, 1977
[ISBN-87-7478-213-4] 19 p3055 N84-29385
Thule Geophysical Observatory: Magnetic results, 1975
[ISBN-87-7478-206-1] 19 p3055 N84-29386
Thule Geophysical Observatory: Magnetic results, 1976
[ISBN-87-7478-208-8] 19 p3055 N84-29387
Thule Geophysical Observatory: Magnetic results, 1977
[ISBN-87-7478-209-6] 19 p3055 N84-29388
Thule Geophysical Observatory: Magnetic results, 1979
[ISBN-87-7478-214-2] 19 p3055 N84-29389

MAGNETIC SPECTROSCOPY
Neutrino-oscillation experiments at Brookhaven National Laboratory
[DE83-016275] 04 p0528 N84-13476
Direct measurement of the energy spectrum of an intense proton beam
[DE84-000457] 04 p0597 N84-13939

MAGNETIC STARS
Circular polarimetry of the magnetic compact binary AM Herculis 09 p1414 N84-19251
Preliminary results of coordinated optical UV and X-ray observations of magnetic white dwarfs in binaries
24 p3980 N84-35216

MAGNETIC STORAGE
NT BUBBLE MEMORY DEVICES
NT MAGNETIC DISKS
Computer science and technology: Care and handling of computer magnetic storage media
[PB83-237271] 02 p0276 N84-11809
Theoretical modeling of the plasma-erosion opening switch for inductive-storage applications
[DE84-001843] 04 p0529 N84-13483
Workshop on Magnetic Information Technology (MINT)
[PB84-125210] 09 p1319 N84-18619
Plant and operational features of the BPA 30 MJ superconducting magnetic energy storage system
[DE84-006006] 19 p3011 N84-29086

MAGNETIC STORMS
Behavior of the total electron content in the ionosphere in Sao Jose dos Campos during magnetic storms in 1980
[INPE-2810-PRE/368] 02 p0248 N84-11623
Some characteristics of midlatitude F layer storms generated by thermosphere-plasmasphere coupling processes 02 p0251 N84-11645
Communications magnetospheric substorms
[AD-A133898] 05 p0703 N84-14611
Study to synthesize and interpret data from several satellites and ground magnetometers
[AD-A132670] 05 p0703 N84-14616
Particle and field signatures of substorms in the near magnetotail
[DE84-003777] 11 p1683 N84-20984
Energetics of the magnetosphere, revised
[NASA-TM-86063] 13 p2010 N84-23041
Observations of short period magnetic pulsations during the SBARMO-79 campaign: Data summary
[REPT-90/1982] 13 p2012 N84-23052
A study of geomagnetic pulsations using the AFGL (Air Force Geophysics Laboratory) magnetometer network
[AD-A140507] 16 p2526 N84-26217
Nighttime mesospheric returns associated with a large scale flare event 17 p2686 N84-27103
Possible sources of irregular geomagnetic variations
17 p2704 N84-27223
Ionospheric effect of partial solar eclipse of 31 July 1981 17 p2704 N84-27224
Solar-geophysical data prompt reports, February 1984, number 474. Part 1: Data for January 1984, December 1983 and late data. Explanation of data reports issued as number 474 (supplement) February 1984
[PB84-188689] 20 p3320 N84-31076
Nighttime enhancements in the TEC and magnetic storm response of the tropical F-region over Brazil
[INPE-3038-PRE/469] 21 p3442 N84-31839
Particle environment — solar arrays and electric discharges
[NASA-CR-173888] 22 p3661 N84-33210
Solar Terrestrial Physics: Present and Future
[NASA-RP-1120] 23 p3836 N84-34332
Coronal transients and their interplanetary effects
23 p3837 N84-34338
Substorms in the magnetosphere
23 p3837 N84-34340
Impact of flares on the solar terrestrial environment
23 p3837 N84-34341
A numerical simulation study of solar wind disturbances responsible for geomagnetic and auroral storms
[AD-A144178] 24 p3993 N84-35266

MAGNETIC SUBSTORMS
U MAGNETIC STORMS

MAGNETIC SURVEYS
Terrain effects in resistivity and magnetotelluric surveys
[DE83-014084] 02 p0240 N84-11575
A study of magnetotelluric fields in laterally inhomogeneous Earth models 05 p0671 N84-14413
Three-dimensional magnetotelluric interpretation
05 p0706 N84-14632
Synthesis of regional crust and upper-mantle structure from seismic and gravity data
[E84-10061] 06 p0864 N84-15631
Further development of magnetotelluric methods for the exploration of the pre-Zechstein by improvement of the data processing codes, data acquisition and interpretation techniques
[BMFT-FB-T-83-190] 07 p1023 N84-16638
Aeromagnetic map of Yucca Mountain and surrounding regions, southwest Nevada
[DE84-003920] 10 p1526 N84-19995
The geomagnetic elements in Denmark 1928-1960
[ISBN-87-7478-219-3] 14 p2174 N84-24024
Diagnostic tools for mapping California EOR processes
[DE84-006232] 15 p2359 N84-25157
Allowance for geomagnetic field variations and tie-in of observations in highly precise aeromagnetic surveys
17 p2704 N84-27221
New book discusses normal geomagnetic field
18 p2859 N84-28156
Bias removal for conventional magnetotelluric data
[DE84-012189] 20 p3241 N84-30579
Development of an automatic system for the treatment of magnetotelluric data
[INPE-3165-TDL/171] 23 p3797 N84-34075

MAGNETIC SUSPENSION
Performance measurements of a pilot superconducting solenoid model core for a wind tunnel magnetic suspension and balance system
[NASA-CR-172243] 03 p0338 N84-12182
The drag of magnetically suspended wind-tunnel models with nose-cones of various shapes
[NASA-TM-77325] 07 p0946 N84-16137
National Bureau of Standards Journal of Research, volume 88, no. 4, July - August 1983
[PB84-115849] 08 p1163 N84-17571
Magnetic bearing design for high speed momentum wheels 09 p1296 N84-18474
Magnetic suspension and balance system study
[NASA-CR-3802] 20 p3132 N84-29688
Engineering changes to the 0.1m cryogenic wind tunnel at Southampton University
[NASA-CR-172430] 22 p3538 N84-32397

MAGNETIC SWITCHING
The COMET: A 6-MV, 400-kJ, magnetically-switched pulse-power module
[DE83-013077] 02 p0290 N84-11901
Magnetic switching
[DE83-012952] 03 p0433 N84-12841

MAGNETIC TAPE RECORDERS
U MAGNETIC RECORDING
U TAPE RECORDERS

MAGNETIC TAPES
NT COMPUTER COMPATIBLE TAPES
Catalog of the Oak Ridge National Laboratory Meteorological Tape Library
[DE83-017493] 01 p0162 N84-11067
Computer science and technology: Care and handling of computer magnetic storage media
[PB83-237271] 02 p0276 N84-11809
A program for the automatic request of magnetic tapes filing and reading of its contents (processor PCINTA)
[JEN-545] 04 p0578 N84-13615
FGGE/SBUV tape specification and shipping letter description
[NASA-CR-170482] 06 p0934 N84-16071
FGGE/ERBM tape specification and shipping letter description
[NASA-CR-170547] 06 p0934 N84-16072
FGGE/ERBZ tape specification and shipping letter description
[NASA-CR-170548] 06 p0934 N84-16073
Friction and morphology of magnetic tapes in sliding contact with nickel-zinc ferrite
[NASA-TP-2267] 07 p0977 N84-16334
Eddy current thickness gauge for reel-to-reel tape processes
[DE84-004050] 08 p1162 N84-17567
Water-vapor effects on friction of magnetic tape in contact with nickel-zinc ferrite
[NASA-TP-2279] 09 p1286 N84-18399
Summary of solar activity observed in the Mauna Loa Solar Observatory, 1980 - 1983
[PB84-137587] 11 p1760 N84-21484
Documentation for the machine-readable version of a supplement to the Bright Star catalogue (Hoffleit, Saladyga and Wlasuk 1983)
[NASA-TM-85573] 13 p2070 N84-23415
Documentation for the machine-readable version of the general catalogue of 33342 stars for the epoch 1950 (Boss 1937)
[NASA-TM-85568] 13 p2071 N84-23420
ERB master archival tape specification no. T 134081 ERB MAT, revision 1
[NASA-TM-85612] 14 p2204 N84-24230
Storage, retrieval, and analysis of ST data
18 p2843 N84-28051
Properties of ferrites important to their friction and wear behavior
[NASA-TM-83718] 19 p2997 N84-28994
Effects of water-vapor on friction and deformation of polymeric magnetic media in contact with a ceramic oxide
[NASA-TM-83727] 20 p3161 N84-30072
NIMBUS 7 Earth Radiation Budget (ERB) matrix user's guide. Volume 2: Tape specifications
[NASA-CR-170620] 21 p3464 N84-31961

A software scheme for managing magnetic tape storage space
[AD-A142847] 21 p3465 N84-31969
MAGNETIC TRANSDUCERS
Investigations of magnetic wires for sensor applications
[BMFT-FB-T-84-110] 23 p3752 N84-33787
MAGNETIC VARIATIONS
NT GEOMAGNETIC PULSATIONS
NT NOCTURNAL VARIATIONS
Magnetic fluctuations in high-beta sub p Tokamak plasmas
[DE83-015872] 05 p0751 N84-14929
Geomagnetic and related geophysical phenomena
[CSIR-SR-MAG-3] 07 p1032 N84-16693
Rapid magnetic energy release, its possible role in coronal heating and solar wind acceleration
[AD-A133170] 07 p1093 N84-17106
Coherence study of geomagnetic fluctuations in frequency range .04 - 0.6 HZ between remote land sites
[AD-A136542] 13 p2011 N84-23042
Possible sources of irregular geomagnetic variations
17 p2704 N84-27223
Physical nature of geomagnetic microbays
17 p2706 N84-27232
Low frequency electric and magnetic noise along the auroral field lines
[NASA-CR-173641] 17 p2727 N84-27358
Large-scale interplanetary magnetic fields: Voyager 1 and 2 observations between 1 AU and 9.5 AU
[NASA-TM-86068] 18 p2952 N84-28712
Thule Geophysical Observatory: Magnetic results, 1976
[ISBN-87-7478-211-8] 19 p3053 N84-29372
Godhavn Geophysical Observatory: Magnetic results, 1977
[ISBN-87-7478-213-4] 19 p3055 N84-29385
Thule Geophysical Observatory: Magnetic results, 1975
[ISBN-87-7478-206-1] 19 p3055 N84-29386
Thule Geophysical Observatory: Magnetic results, 1976
[ISBN-87-7478-208-8] 19 p3055 N84-29387
Thule Geophysical Observatory: Magnetic results, 1977
[ISBN-87-7478-209-6] 19 p3055 N84-29388
Thule Geophysical Observatory: Magnetic results, 1979
[ISBN-87-7478-214-2] 19 p3055 N84-29389
Report of the geomagnetic and geoelectric observations, 1982 (rapid variations)
[KMO-23] 20 p3240 N84-30567
MAGNETICALLY TRAPPED PARTICLES
NT RADIATION BELTS
Magnetic trapping of intense ion beams
[DE83-017356] 03 p0437 N84-12866
Trapped-proton energy spectrum determination (M0002-1) 15 p2276 N84-24663
The importance of neutrals, transient effects, and the Earth's magnetic field on sheath structure
[AD-P002119] 16 p2524 N84-26205
MAGNETITE
Hydrogen-evolution monitoring as a measure of steam-generator corrosion
[DE83-900677] 01 p0044 N84-10285
Quenched magnetite in cretaceous-tertiary boundary microtektite-like spheroid 11 p1755 N84-21459
MAGNETIZATION
Steam turbine as unipolar generator
[AD-A131142] 03 p0383 N84-12498
Localized magnetization arising from spin-dependent impurity potentials in the Wolff model
[AD-A133652] 05 p0742 N84-14871
Superconducting ground state of a strongly interacting electron system: UBe13
[DE84-001708] 06 p0923 N84-16003
The elements of the Earth's magnetism and their secular changes between 1550 and 1915
[NASA-TM-77343] 10 p1533 N84-20043
Seamount paleomagnetism and Pacific plate tectonics
11 p1677 N84-20943
Development of high frequency low weight power magnetics for aerospace power systems
[NASA-TM-83656] 13 p1986 N84-22892
Dynamical properties of disordered systems
[AD-A141597] 19 p3085 N84-29580
Electromagnetic inspection of wire ropes using sensor arrays
[AD-A142012] 20 p3199 N84-30321
A method for the optimization of the geometry and the magnetization of magnetized bodies that are assumed for the solution of the inverse magnetic field problem
23 p3776 N84-33942
MAGNETO-OPTICS
Studies of the electronic properties of two-dimensionally confined carriers in MIS (Metal-Insulator-Semiconductor) Inversion/Accumulation layers, heterojunctions and quantum wells
[AD-A134094] 05 p0752 N84-14935
Advanced filter technology
[AD-A135446] 08 p1232 N84-18050
Magneto-optic garnet and liquid crystal optical switches 12 p1905 N84-22410
Automatic, self-nulling, spectral scanning ellipsometer: Software for the LSI-11 data acquisition system
[LBL-15525] 16 p2543 N84-26320
Magneto-optical studies of epitaxial EuS films and (EuS/SrS) layer systems
[JUEL-1910] 23 p3831 N84-34302
MAGNETOACOUSTIC WAVES
Magnetoacoustic heating and Flux-Conserving-Tokamak (FCT) equilibria in a belt pinch
[IPF-83-4] 14 p2231 N84-24380
High magnetic field MHD generator program
[DE84-007690] 15 p2411 N84-25474
Reduced equations in three dimensional geometry
[DE84-009401] 20 p3282 N84-30841
MAGNETOACTIVITY
NT MAGNETORESISTIVITY
MAGNETOELASTIC WAVES
NT MAGNETOACOUSTIC WAVES
MAGNETOELASTICITY
U MAGNETOSTRICTION
MAGNETOGASDYNAMICS
U MAGNETOHYDRODYNAMICS
MAGNETOGRAMS
U MAGNETIC SIGNATURES
MAGNETOHYDRODYNAMIC ACCELERATION
U PLASMA ACCELERATION
MAGNETOHYDRODYNAMIC FLOW
An analytical and experimental study of spectral analysis techniques for turbulence data obtained using laser velocimetry 02 p0217 N84-11424
Theory of hydromagnetic turbulence
03 p0467 N84-13077
Observational constraints on solar wind acceleration mechanisms 03 p0467 N84-13078
Magnetohydrodynamic modeling of coronal structure and expansion 03 p0468 N84-13081
Plasma properties of driver gas following interplanetary shocks observed by ISEE-3 03 p0474 N84-13123
Thermal and electrical interaction of tantalum with a low temperature chemically active plasma flow
[NASA-TM-77374] 06 p0920 N84-15980
Theoretical treatment of turbulent plasma dynamics
10 p1584 N84-20381
Two-dimensional MHD boundary layers in argon-cesium plasmas
[EUT-83-E-139] 10 p1587 N84-20400
Compact toroids with rotating halo-the spintor
[IPPJ-658] 11 p1734 N84-21306
Axisymmetric, non-ideal MHD states with steady flow
[DE84-006045] 11 p1738 N84-21340
Axisymmetric MHD equilibria with flow — Tokamaks
[IPP-6/230] 13 p2044 N84-23262
Hydrodynamic theory of convective transport across a dynamically stabilized diffuse boundary layer — plasma flow
[JUEL-1868] 13 p2046 N84-23275
Flow of stellar wind past X-radiation source
17 p2645 N84-26920
Magnetohydrodynamic flow past nonconducting wedge 17 p2647 N84-26931
Long-time states of inverse cascades in the presence of a maximum length scale 17 p2666 N84-26999
Plasma and magnetospheric research
[NASA-CR-171060] 19 p3053 N84-29374
Semi-implicit method for three-dimensional compressible MHD simulation
[IPP-6/234] 20 p3301 N84-30961
Protective plasma envelope
[DE84-013316] 21 p3502 N84-32194
Interactions between satellites and plasma
[NASA-TM-77476] 23 p3700 N84-33451
Plasma and magnetospheric research
[NASA-CR-171157] 23 p3827 N84-34275
Influence of plasma flow on flute instability
[DE84-013314] 23 p3829 N84-34285
MAGNETOHYDRODYNAMIC GENERATORS
Closed energy cycle with MRD generator using T-layer effect
[AD-A131136] 02 p0242 N84-11583
The 21st Symposium on Engineering Aspects of Magnetohydrodynamics
[DE83-014481] 02 p0296 N84-11943
Development of materials for open-cycle MHD
[DE83-016334] 03 p0445 N84-12926
Structure of convective surface deposits and effect on MHD steam-plant design
[DE83-010757] 03 p0446 N84-12931
High magnetic field MHD generator program
[DE84-007690] 15 p2411 N84-25474
Magnetohydrodynamic power generation, electromagnetic pumps, heat pipes, and thermionic convertors
[DE84-009195] 15 p2411 N84-25475
Magnetohydrodynamic generator helps predict earthquakes 17 p2700 N84-27199
Ceramic to metal attachment system — magnetohydrodynamic generators
[DE84-011095] 20 p3183 N84-30065
MAGNETOHYDRODYNAMIC STABILITY
Improving the phase stability of the SLAC RF driveline network for SLC operation
[DE83-012714] 01 p0143 N84-10943
Impact of clumps on plasma stability and the nature of turbulence in a saturated state
[DE83-012927] 01 p0149 N84-10980
Model for the saturation of the hydromagnetic Rayleigh-Taylor instability
[DE83-012629] 01 p0150 N84-10986
Radial plasma measurements and calculations in the center of a 3-meter laser-heated theta pinch
[DE83-015545] 01 p0150 N84-10989
Recent results from the ZT-40M reversed-field pinch program
[DE83-014149] 01 p0151 N84-10993
Creating unstable velocity-space distributions with barium injections
[DE83-012783] 02 p0250 N84-11635
Longitudinal space-charge effects in bunched beams
[DE83-017305] 03 p0440 N84-12888
Magnetohydrodynamic equilibrium and stability of spheromak plasma in flux conserver
[IPPJ-642] 03 p0443 N84-12909
Instabilities in cylindrical plasma liners imploded by high magnetic fields
[DE83-013640] 03 p0445 N84-12921
Theoretical studies of fusion physics. Volume 2: Appendices
[DE83-010371] 03 p0445 N84-12925
Drift wave studies in a linear multiple mirror
[DE83-016681] 03 p0449 N84-12951
Effect of magnetic bending on the high-frequency stability of the ELMO Bumpy Torus
[DE83-017177] 03 p0450 N84-12961
Dissipative instabilities of magnetic neutral layers with velocity shear
[IFSI-82-13] 03 p0451 N84-12965
Superconducting stability, 1983: A review
[DE83-017262] 03 p0455 N84-12995
Introduction: Advances and opportunities in cluster research
[DE84-000364] 04 p0594 N84-13917
The MHD stability of inertia-tied Z-pinches with application to solar coronal loops
04 p0596 N84-13932
Simulation studies on a novel betatron injection scheme
[DE84-001337] 04 p0598 N84-13946
Space-time evolution of the nonlinear 2-stream instability
[DE84-001336] 04 p0599 N84-13950
Filamentation instability of ion acoustic waves driven by a scattered relativistic beam
[DE84-001323] 04 p0599 N84-13956
Construction and operational experience of the tandem mirror experiment-upgrade (TMX-U)
[DE83-018181] 04 p0605 N84-13995
Observations of nonlinear behavior in a low-pressure discharge column
[AD-A132321] 04 p0605 N84-13996
Resonant-3-wave mode coupling in inhomogeneous plasmas: Symmetry breaking by omega meson-*
[DE84-001633] 04 p0606 N84-13999
Simulations of the effects of mobile ions on the relativistic beam-plasma instability for intense beams
[DE84-000369] 04 p0607 N84-14003
High-density Z-pinch research
[DE83-017311] 04 p0608 N84-14013
TMX-U diagnostic system
[DE83-017834] 04 p0608 N84-14015
Hamiltonian formulation of reduced magnetohydrodynamics
[DE83-016758] 04 p0609 N84-14021
Nonlinear kinetic theory of a single helicity tearing instability
[DE84-000049] 04 p0610 N84-14024
Overview of project Brazil Ionospheric Modification Experiment (BIME) 05 p0639 N84-14207

The effect of field index fluctuations on the dynamics of a high current electron ring in a modified betatron accelerator
[AD-A133089] 05 p0745 N84-14891
Electrostatic ion-cyclotron waves in magnetospheric plasmas: Non-local aspects
[NASA-CR-174501] 05 p0749 N84-14917
Numerical study of electromagnetic fluid turbulence
[DE84-002388] 05 p0750 N84-14923
Filamentation instability associated with a relativistic beam and a finite-temperature, collisional plasma
[DE84-002303] 05 p0750 N84-14928
Magnetic fluctuations in high-beta sub p Tokamak plasmas
[DE83-015872] 05 p0751 N84-14929
Microinstabilities in the high latitude F region: A brief review
[DE84-001709] 06 p0879 N84-15719
Plasma wave experiment for the ISEE-3 mission
[NASA-CR-175132] 06 p0919 N84-15972
Equilibrium studies for low-aspect-ratio torsatrons
[DE84-002264] 06 p0920 N84-15979
Computations of the current profile influence on tearing instability
[NASA-TM-77285] 06 p0920 N84-15981
Radial structure of curvature-driven instabilities in hot-electron plasma
[DE84-002256] 06 p0921 N84-15986
Drift waves in rotating plasmas
[DE84-000391] 06 p0921 N84-15988
Steepest descent moment method for three-dimensional magnetohydrodynamic equilibria
[DE84-002993] 07 p1076 N84-16999
Study of parametric instabilities during the Alcator C lower hybrid wave heating experiments
[DE84-002809] 07 p1077 N84-17000
Plasma effects on Heliac configurations: A preliminary investigation
[DE84-002299] 07 p1077 N84-17002
Experimental study of high beta toroidal plasmas
[DE84-004869] 07 p1078 N84-17006
Electron acceleration in the front of intense collisionless shock waves
[PR-613] 09 p1154 N84-17511
Proposed second harmonic acceleration system for the intense pulsed neutron source rapid cycling synchrotron
[DE84-003601] 08 p1230 N84-18036
Thresholds of Raman backscatter: Effects of collisions and Landau damping
[DE84-003736] 08 p1233 N84-18060
Toroidal self-field corrections to the linear dispersion relation for the negative mass instability in a modified betatron
[AD-A135940] 09 p1377 N84-18995
ATF-1 torsatron studies
[DE84-003314] 09 p1392 N84-19089
Particle simulation of drift waves in a sheared magnetic field
[DE84-004026] 09 p1393 N84-19093
Computational physics program at National MFE Computer Center
[DE84-004602] 10 p1574 N84-20318
Review of plasma flow research at the Institute of Plasma Physics and Laser Microfusion (IPPLM)
10 p1581 N84-20358
High density Z-pinch research
10 p1582 N84-20371
Tokamak plasma position dynamics and feedback control
[DE84-004424] 10 p1586 N84-20393
Stable Alfven wave dynamo action in the reversed field pinch
[DE84-004986] 10 p1586 N84-20397
Reconnections in Spheromak formation and sustainment
[DE84-004157] 10 p1586 N84-20398
Plasma current and conductivity effects on hose instability
[AD-A137549] 11 p1729 N84-21282
Compact toroids with rotating halo-the spintor
[IPPJ-658] 11 p1734 N84-21306
Bounce resonance heating and radial transport of electrons in magnetic mirrors
[IPPJ-654] 11 p1734 N84-21309
Energy levels and transition probabilities of low Z ions for electric field determination 11 p1736 N84-21325
Fast collisionless tearing in an anisotropic neutral sheet
[NASA-CR-175415] 11 p1737 N84-21331
Magnetic field topologies of the relaxed states of turbulent discharges
[DE84-004330] 11 p1737 N84-21334
Tandem mirror fusion research
[DE84-005133] 11 p1738 N84-21339
On the convective properties of the resistive hose instability in an intense relativistic electron beam
[AD-A137527] 12 p1902 N84-22386
Neoclassical current studies in high beta plasmas
[DE84-005052] 12 p1910 N84-22445
Introduction to tandem mirror physics
[DE84-006644] 12 p1911 N84-22451
A classical picture of anomalous effects in a Tokamak
[IPPJ-664] 13 p2044 N84-23263
A rf-induced stability of mirrors with inverted pressure profiles
[DE84-007018] 13 p2045 N84-23273
Hydrodynamic theory of convective transport across a dynamically stabilized diffuse boundary layer — plasma flow
[JUEL-1869] 13 p2046 N84-23275
Discharges on a negatively biased solar array in a charged particle environment
[NASA-TM-83644] 14 p2118 N84-23690
Microtheory of collisionless shock current layers
[DE84-007500] 14 p2229 N84-24366
Parameters of a possible FRC adiabatic compression experiment
[DE84-007467] 14 p2230 N84-24371
Ballooning precessional instabilities in a single cell hot electron plasma
[DE84-007017] 14 p2230 N84-24373
Free-boundary stability of straight stellarators
[DE84-006272] 14 p2230 N84-24378
Nonlinear theory of lower hybrid current drive II
[DE84-007292] 15 p2410 N84-25469
Reversed-field pinch dynamics and transport studies
[DE84-009054] 15 p2411 N84-25472
Inappropriateness of the finite Larmor radius model for the tilting mode in field reversed configurations
[DE84-007467] 15 p2411 N84-25473
Recent progress on ATF
[DE84-007523] 15 p2411 N84-25476
Transport, stability and relaxation of a Spheromak
[DE84-007285] 15 p2412 N84-25479
Hopf bifurcation and the beam-plasma instability
[DE84-008243] 15 p2412 N84-25480
Interactions between a large body and its environment in a low polar orbit
[AD-P002111] 16 p2523 N84-26197
Production of plasma with variable, radial electric fields
[NASA-CR-173434] 16 p2558 N84-26413
Generation of broadband electrostatic noise by ion beam instabilities in the magnetotail
[NASA-CR-173643] 17 p2728 N84-27362
Applications of spectral methods to turbulent magnetofluids in space and fusion research
[NASA-CR-173665] 17 p2757 N84-27505
Studies of some plasma instabilities in space physics
17 p2766 N84-27562
MHD stability of the spheromak
17 p2766 N84-27563
Introduction to the theory of fluid and magnetofluid turbulence
[IPPJ-670] 17 p2766 N84-27565
Passive and active circuits for vertical plasma stabilization
[DE84-006857] 18 p2933 N84-28599
Nonlinear interaction of tearing modes: A comparison between the Tokamak and the reversed field pinch configurations
[DE84-010582] 18 p2934 N84-28606
Theoretical methods in the calculation of the bremsstrahlung recoil force in a nonequilibrium beam-plasma system
[AD-A142136] 19 p3089 N84-29609
Influence of collisions on the magnetized ion-ion instability
[AD-A141464] 19 p3101 N84-29696
Particle confinement during lower-hybrid current drive in the Versator 2 Tokamak
[DE84-008941] 19 p3106 N84-29737
Relativistic electromagnetic instabilities near electron cyclotron frequency and harmonics
[DE84-009672] 19 p3107 N84-29745
Role of magnetic reconnection phenomena in the reversed-field pinch
[DE84-007470] 19 p3108 N84-29748
Recent results of studies of acceleration of compact toroids
[DE84-006330] 19 p3109 N84-29752
Applied mathematics of transport theory
[DE84-011496] 20 p3282 N84-30838
MHD equilibrium and stability of rotating FRCs with excluded multipole fields
[DE84-007477] 20 p3284 N84-30853
Nonlinear dynamics of magnetic islands with curvature and pressure
[DE84-010968] 20 p3285 N84-30859
Acceleration of ions and electrons by wave-particle interactions
[AD-A142341] 20 p3292 N84-30900
Generalized Poisson brackets and nonlinear Liapunov stability: Application to reduced MHD
[DE84-009973] 20 p3302 N84-30972
Equilibrium and stability of the Los Alamos spheromak
[DE84-010064] 20 p3303 N84-30975
The 3-D MHD stability of high-beta free-boundary Tokamak plasmas with finite edge-pressure-gradient and limiter stabilization
[DE84-009186] 20 p3303 N84-30976
Theoretical aspects of mirror fusion
[DE84-009139] 20 p3305 N84-30988
Analysis of surface currents on the CTX mesh flux conserver
[DE84-007491] 20 p3305 N84-30989
Microstability theory for distributions separable in energy and pitch angle
[DE84-009683] 20 p3305 N84-30991
Magnetohydrodynamic equilibrium and stability of stellarators
[DE84-010731] 20 p3305 N84-30994
RF-induced stability and transport in axisymmetric tandem mirrors
[DE84-010842] 20 p3306 N84-30999
Interaction of the precessional wave with free-boundary Alfven surface waves in tandem mirrors
[DE84-012527] 20 p3307 N84-31003
Bremsstrahlung from longitudinal plasma waves produced by subthermal electrons in plasma
21 p3488 N84-32102
Plasma beam instability of bounded electron beam in weak magnetic field 21 p3488 N84-32105
How useful are odd-integer half-harmonics
[DE84-012392] 21 p3501 N84-32190
Disruptive instabilities in a poloidal divertor tokamak
[DE84-013054] 21 p3501 N84-32192
A survey of the methods of MHD analysis of magnetic islands
[DE84-006858] 21 p3502 N84-32197
Large amplitude MHD waves upstream of the Jovian bow shock: Reinterpretation
[NASA-TM-86131] 21 p3525 N84-32333
Influence of magnetic shear on the collisional current driven ion cyclotron instability
[AD-A143391] 22 p3659 N84-33191
Reliability of initial-value MHD calculations of Tokamak disruptions
[DE84-013600] 22 p3659 N84-33193
Accelerated convergence of the steepest-descent method for magnetohydrodynamic equilibria
[DE84-013602] 22 p3659 N84-33195
Thermal instabilities in the edge region of reversed-field pinches
[DE84-013861] 22 p3659 N84-33196
Stability of laminar electron layers
[AD-A143788] 23 p3822 N84-34235
High-current betatron, phase 1
[AD-A143748] 23 p3824 N84-34252
A users guide to KLYSMA 2: A multifluid transport code
[AD-A143784] 23 p3828 N84-34278
Flute instability of plasma in a gas-dynamic trap
[DE84-013348] 23 p3828 N84-34284
Plasma heating, confinement and stabilization experiments in axisymmetric mirror-cusp device
[IPPJ-690] 24 p3965 N84-35105

MAGNETOHYDRODYNAMIC TURBULENCE

NT PLASMA TURBULENCE
Determining the alpha dynamo parameter in incompressible homogeneous magnetohydrodynamic turbulence
[NASA-TM-85110] 02 p0295 N84-11936
Solar Wind Five
[NASA-CP-2280] 03 p0466 N84-13067
HRTS observations of the fine structure and dynamics of the solar chromosphere and transition zone
03 p0466 N84-13070
Magnetohydrodynamic turbulence in the solar wind
03 p0467 N84-13073
Observations of hydromagnetic turbulence in the solar wind 03 p0467 N84-13074
Kinetic theory of gases, magneto-fluid dynamics and their application
[AD-A139616] 15 p2332 N84-25007
Introduction to the theory of fluid and magnetofluid turbulence
[IPPJ-670] 17 p2766 N84-27565
Kolmogorov-style argument for the decaying homogeneous MHD turbulence
[IPPJ-677] 20 p3301 N84-30963
Solar Terrestrial Physics: Present and Future
[NASA-RP-1120] 23 p3836 N84-34332
MHD waves and turbulence in the Sun and interplanetary medium 23 p3837 N84-34336

MAGNETOHYDRODYNAMIC WAVES
NT ELECTROSTATIC WAVES
NT PLASMA WAVES
Radio scintillations at large elongation angles: Contributions of waves versus discontinuities
[IFSI-82-4] 03 p0362 N84-12358
Observations of soft X-ray fluctuations with an imaging array on TEXT
[DE83-018118] 03 p0447 N84-12938
Spectral analysis of magnetohydrodynamic fluctuations near interplanetary schocks
[NASA-TM-85119] 03 p0462 N84-13044
Coronal heating by waves 03 p0466 N84-13068
Alfven solitons in the solar wind
03 p0467 N84-13075
Interplanetary Alfvenic fluctuations: A statistical study of the directional variations of the magnetic field
03 p0467 N84-13076
Alfven masers 05 p0636 N84-14182
Experimental and theoretical aspects of the generation of MHD waves by chemical releases in the ionosphere
05 p0639 N84-14206
X-ray observations of cataclysmic variables
06 p0936 N84-16084
The plasma sheet boundary layer
[AD-A137399] 10 p1537 N84-20069
Particle acceleration by electron plasma waves
10 p1582 N84-20369
Stable Alfven wave dynamo action in the reversed field pinch
[DE84-004986] 10 p1586 N84-20397
Dependence of hydromagnetic energy spectra on interplanetary parameters
[AD-A138745] 13 p2036 N84-23209
Low frequency electric and magnetic noise along the auroral field lines
[NASA-CR-173641] 17 p2727 N84-27358
MHD dynamo action in space plasmas
[TRITA-EPP-84-06] 18 p2934 N84-28610
Alfven wave dissipation in the solar wind
[IFSI-84-7] 18 p2953 N84-28718
Evidence for long period Alfven waves in the inner solar system
[IFSI-84-9] 18 p2953 N84-28719
Formation of spatial Alfven resonance and global modes in an inhomogeneous plasma
[IPPJ-674] 20 p3302 N84-30966
Generalized Poisson brackets and nonlinear Liapunov stability: Application to reduced MHD
[DE84-009973] 20 p3302 N84-30972
Experimental observation of the shear Alfven resonance in a Tokamak
[DE84-012993] 20 p3306 N84-30996
Interaction of the precessional wave with free-boundary Alfven surface waves in tandem mirrors
[DE84-012527] 20 p3307 N84-31003
Large amplitude MHD waves upstream of the Jovian bow shock: Reinterpretation
[NASA-TM-86131] 21 p3525 N84-32333
Solar Terrestrial Physics: Present and Future
[NASA-RP-1120] 23 p3836 N84-34332
MHD waves and turbulence in the Sun and interplanetary medium 23 p3837 N84-34336

MAGNETOHYDRODYNAMICS
NT CYLINDRICAL PLASMAS
High-altitude observations of an intense inverted-V event
[NASA-CR-174468] 01 p0104 N84-10578
Currents in the Earth's magnetotail
[NASA-CR-174467] 01 p0104 N84-10579
Anode plasma expansion in pinch-reflex diodes
[AD-A131083] 01 p0149 N84-10977
Safety and protection for large-scale superconducting magnets. A FY 1982 report
[DE83-012961] 01 p0154 N84-11013
Geomagnetic pulsations-production/interpretation
[AD-A131448] 02 p0249 N84-11629
Initial assessment of the MHD stability of TMX-U
[DE83-016521] 03 p0404 N84-12646
Boundary-integral simulations of rayleigh-taylor instability in ideal magnetohydrodynamics
[AD-A131667] 03 p0444 N84-12920
A 2-D skin-current toroidal-MHD-equilibrium code
[DE83-016916] 03 p0446 N84-12929
Variational-moment method for computing magnetohydrodynamic equilibria
[DE83-017477] 03 p0450 N84-12957
Radial variations of large-scale magnetohydrodynamic fluctuations in the solar wind
[NASA-TM-85116] 03 p0463 N84-13045
Modeling of transient disturbances in coronal-streamer configurations 03 p0474 N84-13119
On the field configuration in magnetic clouds
03 p0475 N84-13125
Inverse plasma equilibria
[DE84-000723] 04 p0607 N84-14008
Energetic ion beam-plasma interactions
[AD-A133816] 05 p0749 N84-14918
Comparisons of hydrodynamic beam models with kinetic treatments
[DE84-003242] 08 p1233 N84-18057
Kinetic theory of gases, magneto-fluid dynamics and their application
[AD-A137082] 10 p1585 N84-20390
Solar flares: An extreme of reconnection
[DE84-004413] 10 p1597 N84-20467
Atomic data calculations for application to the diagnostics of Tokamak plasmas. FY 1982 report
[DE84-006132] 12 p1910 N84-22446
Theory of anomalous tearing mode growth and the major Tokamak disruption
[DE84-005383] 12 p1911 N84-22448
Dependence of hydromagnetic energy spectra on interplanetary parameters
[AD-A138745] 13 p2036 N84-23209
Moving ring reactor KARIN-I
[IPPJ-660] 13 p2044 N84-23265
Design and fabrication of a surface conversion negative ion source and an 80 keV pre-accelerator
[DE84-006753] 13 p2045 N84-23269
Magnetic fusion energy research and development
[DE84-007089] 13 p2045 N84-23270
Magnetohydrodynamic power generation
[NASA-TP-2331] 15 p2409 N84-25458
Plasma physics issues in advanced simulation research
[AD-A139628] 15 p2410 N84-25465
Stellar Spectra and Their Interpretation. 1st conference of the Subcommission No. 2 15 p2421 N84-25540
Gravito-magnetic origin of the temperature of a stellar corona 15 p2421 N84-25545
Boundary layers in space plasmas: A kinetic model of tangential discontinuities
[AERONOMICA-ACTA-A-280-1984] 16 p2558 N84-26406
Particle acceleration by turbulent magnetohydro-dynamic reconnection
[NASA-TM-86121] 16 p2558 N84-26409
Application of a global solar wind/planetary obstacle interaction computational model: Earth, Venus, Mars, Jupiter and Saturn studies
[NASA-CR-173531] 16 p2572 N84-26509
Application of a global solar wind/planetary obstacle interaction computational model: Earth, Venus, Mars, Jupiter and Saturn studies 16 p2572 N84-26510
MHD (Magnetohydrodynamic) simulation of a comet magnetosphere
[AD-A140206] 16 p2580 N84-26546
Coalescence of two pressure waves associated with stream interactions
[NASA-TM-86120] 16 p2581 N84-26554
Inertial confinement fusion reactor studies
[DE84-008675] 18 p2933 N84-28602
Nonlinear interaction of tearing modes: A comparison between the Tokamak and the reversed field pinch configurations
[DE84-010582] 18 p2934 N84-28606
Activities report in plasma physics
19 p3109 N84-29755
Reduced equations in three dimensional geometry
[DE84-009401] 20 p3282 N84-30841
Mixed mode operation in CTX
[DE84-007493] 20 p3304 N84-30985
A survey of the methods of MHD analysis of magnetic islands
[DE84-006858] 21 p3502 N84-32197
MHD technology in aluminum casting
23 p3706 N84-33491
Visible-light imaging MHD studies of the edge plasma in the JIPP-T-IIU Tokamak
[IPPJ-683] 23 p3827 N84-34272
Flute instability of plasma in a gas-dynamic trap
[DE84-013348] 23 p3828 N84-34284
Solar Terrestrial Physics: Present and Future
[NASA-RP-1120] 23 p3836 N84-34332
Connection between the magnetosphere and ionosphere 23 p3837 N84-34339
Collisionless shock waves in the solar terrestrial environment 23 p3837 N84-34342
Research studies on magnetohydrodynamic systems and modeling solar dynamical behavior
[AD-A143680] 23 p3844 N84-34389
MHD processes in the outer heliosphere
[NASA-TM-86137] 23 p3845 N84-34391
Preliminary design of a reuseable PPMHD (Pulsed Plasma MHD) power supply test bed facility
[AD-A144147] 24 p3965 N84-35108

MAGNETOIONIC PLASMA
U PLASMAS (PHYSICS)

MAGNETOIONICS
Electromagnetic wave propagation in magnetoionic media
[INPE-3189-PRE/553] 23 p3730 N84-33640

MAGNETOMETERS
Measurement of lung function using the magnetometer system
[AD-A130841] 01 p0114 N84-10738
Investigation of magnetic field measurements
[AD-A130422] 01 p0138 N84-10904
The magnetic field gradiometer
[AD-A131477] 02 p0223 N84-11482
Low energy electron magnetometer using a monoenergetic electron beam
[NASA-CASE-LAR-12706-1] 03 p0375 N84-12444
Adaptive noise cancellation in neuromagnetic measurement systems
[AD-A132547] 05 p0684 N84-14494
Study to synthesize and interpret data from several satellites and ground magnetometers
[AD-A132670] 05 p0703 N84-14616
The magnetic-field investigation on ISPM
09 p1260 N84-18230
Papers presented at the Symposium on Upper Atmosphere Research in South Africa
[CSIR-S-325] 09 p1343 N84-18775
The changing world of geomagnetism: A brief history relating to magnetic observatories
09 p1343 N84-18776
The present status of research at the Magnetic Observatory 09 p1343 N84-18777
Upper atmosphere research at Rhodes University since 1940: A review 09 p1344 N84-18779
The application of a superconducting quantum interference device second-order gradiometer to measure visual evoked responses
[AD-A138407] 12 p1865 N84-22156
A study of geomagnetic pulsations using the AFGL (Air Force Geophysics Laboratory) magnetometer network
[AD-A140507] 16 p2526 N84-26217
Determination of propped fracture length by detection of injected magnetic material with surface superconducting magnetometers
[PB84-181320] 17 p2696 N84-27178
Electromagnetic inspection of wire ropes using sensor arrays
[AD-A141164] 18 p2851 N84-28100
Magnetometer for study of temperature variation of saturation magnetism of rock specimens
18 p2864 N84-28182
Research support for plasma diagnostics on Elmo Bumpy Torus - development of a multichannel Hall-probe based diamagnetic diagnostic instrument and observation and modeling of EBT electron rings
[DE84-008810] 18 p2933 N84-28600
Design of incident field B-dot sensor for the nose boom of NASA F-106B aircraft
[AD-A141765] 19 p2964 N84-28787
Accuracy of mapping the Earth's gravity field fine structure with a spaceborne gravity gradiometer mission
20 p3222 N84-30473
Pulse driver for flux gate magnetometer
[AD-D011053] 22 p3596 N84-32774

MAGNETOMETRY
U MAGNETIC MEASUREMENT

MAGNETOPAUSE
Solar wind energy transfer to the terrestrial magnetosphere by magnetic junction in the magnetopause
[INPE-2648-RPE/439] 02 p0247 N84-11617
Magnetopause studies using data from the ISEE mission
[NASA-CR-175208] 08 p1185 N84-17718
Magnetic field reconnection at the magnetopause: An overview 08 p1185 N84-17719
Energetics of the magnetosphere, revised
[NASA-TM-86063] 13 p2010 N84-23041
Patterns of magnetic field merging sites on the magnetopause 16 p2572 N84-26511
Characteristics of the magnetospheric source of interplanetary energetic particles
16 p2573 N84-26512
Magnetopause merging site asymmetries
16 p2573 N84-26513
Magnetic field draping against the dayside magnetopause 16 p2573 N84-26514
Whistler mode turbulence at Earth's bow shock: Generation via electron beams and ray path integrated amplification 17 p2726 N84-27349
A comparative review of bow shocks and magnetopauses
[NASA-TM-86114] 17 p2726 N84-27353
Further analysis of plasma bursts in high-latitude boundary layer of earth 19 p2973 N84-28847

Energetic particle sounding at the magnetopause and implications for magnetic reconnection
[NASA-CR-173963] 23 p3799 N84-34086
Solar Terrestrial Physics: Present and Future
[NASA-RP-1120] 23 p3836 N84-34332
Reconnection of magnetic fields
23 p3836 N84-34333

MAGNETOPLASMADYNAMICS
The basic equations for a four component theory of turbulent magnetoplasmadynamics
[IPF-83-3] 12 p1911 N84-22453
The significance of the pinch phase for the production of neutrons in a plasma focus
[IPF-83-2] 14 p2231 N84-24379
MPD thruster comparisons with advanced chemical systems for auxiliary propulsion applications
20 p3139 N84-29928
An MPD thruster with liquid metal injection
[ISAS-610] 20 p3165 N84-30103

MAGNETOPLASMAS
U PLASMAS (PHYSICS)

MAGNETORESISTIVITY
The anomalous magnetoresistance of graphite at high magnetic fields
[AD-A133861] 05 p0753 N84-14938
The 1/f noise in conditions of high geometrical magnetoresistances 17 p2636 N84-26862
Spectral dependence of magnetoresistivity in heterophase photoconductors based on CdSe
18 p2825 N84-27935
Fiber optic sensor with enhanced immunity to random environmental perturbations
[AD-D011115] 22 p3656 N84-33174

MAGNETOSPHERE
NT GEOMAGNETIC TAIL
NT MAGNETOPAUSE
Saturn's outer magnetosphere
[NASA-TM-85105] 01 p0165 N84-11084
Solar wind energy transfer to the terrestrial magnetosphere by magnetic junction in the magnetopause
[INPE-2848-RPE/439] 02 p0247 N84-11617
Geomagnetic pulsations-production/interpretation
[AD-A131448] 02 p0249 N84-11629
Guidance of electromagnetic waves in the ionosphere and magnetosphere
[IFSI-82-15] 03 p0363 N84-12361
Magnetospheric plasma studies using data from the dynamics high and low altitude plasma instruments
[AD-A131793] 03 p0408 N84-12670
Beam plasma turbulence study
[AD-A131946] 03 p0444 N84-12917
Comment on the observed plasma densities in Jupiter's distant magnetotail (wake); a possible explanation
[IFSI-83-2] 03 p0465 N84-13062
Measurement of macroscopic plasma parameters with a radio experiment: Interpretation of the quasi-thermal noise spectrum observed in the solar wind
03 p0470 N84-13096
An analysis of pC-3 micropulsion in the geomagnetic field
[AD-A132443] 04 p0563 N84-13709
Active experiments in space — conferences
[ESA-SP-195] 05 p0634 N84-14172
VLF wave injections from the ground
05 p0634 N84-14173
Fast magnetospheric echoes of energetic electron beams 05 p0636 N84-14187
Ion coupling to magnetosheath bulk motion — Active Magnetospheric Particle Tracers Explorers (AMPTE) program 05 p0641 N84-14217
Waves in Space Plasmas (WISP): A space plasma lab active experiment 05 p0642 N84-14223
High latitude field aligned currents
05 p0702 N84-14605
Communications magnetospheric substorms
[AD-A133898] 05 p0703 N84-14611
Study to synthesize and interpret data from several satellites and ground magnetometers
[AD-A132670] 05 p0703 N84-14616
Activities in interplanetary space physics
[IFSI-82-7] 05 p0761 N84-14993
Description of 1982 activities in interplanetary physics
[IFSI-83-5] 05 p0761 N84-14994
Outer satellite atmospheres: Their extended nature and planetary interactions
[NASA-CR-174579] 05 p0764 N84-15013
Non-stochastic acceleration of protons in the magnetic neutral sheet
[IPPJ-646] 06 p0919 N84-15975
X-ray sensor development for magnetospheric research
[NASA-CR-173172] 07 p1006 N84-16525
Energy transfer by magnetopause reconnection and the substorm parameter epsilon
[INPE-2908-PRE/422] 07 p1031 N84-16690
Space research in Switzerland
08 p1107 N84-17200
The potential of ISEE in different plasma environments 08 p1116 N84-17257
Ion measurements on GEOS using a negatively biased sensor on a positively charged spacecraft
08 p1117 N84-17263
A potential control method for thermal plasma measurements on the DE-1 spacecraft
08 p1119 N84-17276
Nonlinear mode coupling theory of the lower-hybrid-drift instability
[AD-A135538] 08 p1187 N84-17734
A dawn to dusk electric field in the Jovian magnetosphere
[NASA-CR-166463] 08 p1245 N84-18136
Papers presented at the Symposium on Upper Atmosphere Research in South Africa
[CSIR-S-325] 09 p1343 N84-18775
The present status of research at the Magnetic Observatory 09 p1343 N84-18777
Magnetospheric and atmospheric physics at the University of Natal 09 p1344 N84-18778
Scientific program in planetary atmospheric studies
[NASA-CR-175381] 09 p1416 N84-19263
Implications of the 1100 UT 22 March, 1979 CDAW 6 substorm event for the role of magnetic reconnection in the geomagnetic tail
[DE84-004335] 10 p1537 N84-20071
Chatanika radar and S3-2 measurements of auroral-zone electrodynamics in the midnight sector
[AD-A137947] 11 p1644 N84-20748
Fast collisionless tearing in an anisotropic neutral sheet
[NASA-CR-175415] 11 p1737 N84-21331
Research in space physics at the University of Iowa, 1982
[NASA-CR-175411] 11 p1754 N84-21447
Data reduction and analysis for ISEE-A and -B energetic particles flux experiment and ISEE-C electron and X-ray experiments
[NASA-CR-175220] 11 p1760 N84-21486
Research continues with Intercosmos-Bolgariya-1300 satellite 12 p1775 N84-21577
Detection of bump-on-tail reduced electron velocity distributions at the electron foreshock boundary
[NASA-TM-86067] 12 p1922 N84-22518
Outer satellite atmospheres: Their extended nature and planetary interactions
[NASA-CR-173395] 12 p1922 N84-22524
Energetics of the magnetosphere, revised
[NASA-TM-86063] 13 p2010 N84-23041
Three-dimensional computer modeling of dynamic reconnection in the magnetotail
[DE84-007480] 14 p2176 N84-24037
Plasma and magnetospheric research
[NASA-CR-171031] 15 p2368 N84-25205
Ionospheric characteristics: A review
[AD-P002101] 16 p2521 N84-26187
A study of geomagnetic pulsations using the AFGL (Air Force Geophysics Laboratory) magnetometer network
[AD-A140507] 16 p2526 N84-26217
Application of a global solar wind/planetary obstacle interaction computational model: Earth, Venus, Mars, Jupiter and Saturn studies
[NASA-CR-173531] 16 p2572 N84-26509
Characteristics of the magnetospheric source of interplanetary energetic particles
16 p2573 N84-26512
Magnetopause merging site asymmetries
16 p2573 N84-26513
Magnetic field draping against the dayside magnetopause 16 p2573 N84-26514
The magnetic field of Mars: Implications from gasdynamics modeling 16 p2573 N84-26515
MHD (Magnetohydrodynamic) simulation of a comet magnetosphere
[AD-A140208] 16 p2580 N84-26548
Influence of electric fields on potential waves in Earth's magnetosphere 17 p2705 N84-27225
Generation of broadband electrostatic noise by ion beam instabilities in the magnetotail
[NASA-CR-173643] 17 p2728 N84-27362
Plasma processes caused by an electron beam injected from a high altitude rocket probe. Part 1: Neutralization processes
[IWF-8302] 17 p2728 N84-27363
Plasma processes caused by an electron beam injected from a high altitude rocket probe. Part 2: Studies of beam-plasma discharge
[IWF-8303] 17 p2728 N84-27364
A radiometric Bode's Law: Predictions for Uranus
[NASA-TM-86074] 17 p2781 N84-27659
Space physics research activities report
[ISSN-0347-6405] 18 p2928 N84-28567
Magnetospheric research and the history of the solar system
[TRITA-EPP-84-04] 18 p2952 N84-28713
Simultaneous observations of PC3 pulsations in the magnetosphere and on the ground: Control by the solar wind
[IFSI-83-14] 18 p2953 N84-28717
Cosmogony as an extrapolation of magnetospheric research
[NASA-CR-173440] 18 p2953 N84-28720
Diffuse auroral zone. Part 7: Dynamics of equatorial boundary in field of diffuse electron spill in evening sector 19 p2973 N84-28846
Cutoff for solar cosmic rays in Earth's magnetosphere in magnetically quiet periods 19 p2973 N84-28849
Overview of ultraviolet remote sensing of the ionosphere
[AD-A141533] 19 p3041 N84-29294
Analysis of the influence of nonlinear and dissipative effects in atmospheric plasma
[ISSN-0208-5658] 19 p3106 N84-29732
Some contributions to knowledge of the magnetospheric plasma by ISEE investigators
[NASA-TM-86124] 20 p3301 N84-30962
Theoretical studies of the pulsar magnetosphere
21 p3437 N84-31809
Suprathermal ions upstream of the Earth's bow shock
[DE84-012625] 21 p3444 N84-31855
Solar flares and magnetospheric particles: Investigations based upon the ONR-602 experiment
[AD-A143144] 21 p3526 N84-32336
Geometrical relationships of Pioneer 11 to Uranus and Voyager 2 in 1985-86
[NASA-CR-173675] 22 p3539 N84-32406
Cyclotron resonant scattering of energetic electrons by electromagnetic waves in the magnetosphere
22 p3621 N84-32946
A determination of the charge state of energetic magnetospheric ions by the observation of drift echoes
[AD-A143181] 22 p3623 N84-32954
Plasma and magnetospheric research
[NASA-CR-171157] 23 p3827 N84-34275
Electrostatic equations for large scale plasma simulation studies
[AD-A143640] 23 p3825 N84-34277
Particle acceleration 23 p3836 N84-34334
Coupling of the solar wind to the magnetosphere
23 p3837 N84-34337
Coronal transients and their interplanetary effects
23 p3837 N84-34336
Connection between the magnetosphere and ionosphere 23 p3837 N84-34339
Substorms in the magnetosphere
23 p3837 N84-34340
Assessment of plasma transport and convection at high latitudes 23 p3837 N84-34343
Pioneer 10 and 11 (Jupiter and Saturn) magnetometer experiment — Interaction of a flowing plasma with Titan and the Jovian magnetosphere
[NASA-CR-174006] 24 p3989 N84-35241

MAGNETOSPHERIC ELECTRON DENSITY
Whistler mode interactions and plasma sheet electrons
[AD-A134327] 07 p0993 N84-16436
Observations of fast magnetospheric echoes of artificially injected electrons above an auroral arc
[BMFT-FB-W-84-014] 19 p3055 N84-29390

MAGNETOSPHERIC INSTABILITY
Electrostatic ion-cyclotron waves in magnetospheric plasmas: Non-local aspects
[NASA-CR-174501] 05 p0749 N84-14917
Nonlinear mode coupling theory of the lower-hybrid-drift instability
[AD-A135538] 08 p1187 N84-17734
Whistler mode turbulence at Earth's bow shock: Generation via electron beams and ray path integrated amplification 17 p2726 N84-27349
Generation of broadband electrostatic noise by ion beam instabilities in the magnetotail
[NASA-CR-173643] 17 p2728 N84-27362
Simultaneous observations of PC3 pulsations in the magnetosphere and on the ground: Control by the solar wind
[IFSI-83-14] 18 p2953 N84-28717
Geophysical plasmas and atmospheric modeling
[AD-A142573] 20 p3240 N84-30572

MAGNETOSPHERIC ION DENSITY
Effect of the density of ionized particles on the plasma response in the plasmosphere
[ISSN-0208-5658] 19 p3106 N84-29733

MAGNETOSTATIC FIELDS
Ellipsoidal magnetostatic shield
17 p2638 N84-26877

Determination of propped fracture length by detection of injected magnetic material with surface superconducting magnetometers
[PB84-161320] 17 p2696 N84-27176
Electromagnetic radiation and scattering in a plasma with azimuthal biasing field 21 p3500 N84-32180

MAGNETOSTATICS
MSW (magnetostatic wave) variable time-delay techniques
[AD-A133770] 05 p0753 N84-14941
Integrated optical signal processing with magnetostatic waves 12 p1907 N84-22420
Ellipsoidal magnetostatic shield 17 p2638 N84-26877
Analysis and programming for electromagnetic applications
[AD-A142313] 19 p3009 N84-29071
Amplification of traveling magnetostatic waves by parametric pumping 21 p3479 N84-32050
Microwave and quantum magnetics 22 p3683 N84-33348

MAGNETOSTRICTION
Fiber optic magnetometer for the detection of dc magnetic fields without hysteretic ambiguity
[AD-D011085] 22 p3590 N84-32794
Selection rules for the spontaneous phase transitions in magnetoelastic metamagnets
[DE84-701200] 24 p3960 N84-35070

MAGNETOTELLURIC PROFILING
U MAGNETIC SURVEYS

MAGNETRON SPUTTERING
Corrosion resistant coating
[NASA-CASE-NPO-15928-1] 03 p0352 N84-12289
Magnetron sputtered gold contacts on n-GaAs 09 p1393 N84-19098
Sputtering as a technique for applying tribological coatings 15 p2342 N84-25059
Superconducting electronic film structures
[AD-A141113] 19 p3110 N84-29760

MAGNETRONS
Reliability modeling of critical electronic devices
[AD-A135705] 09 p1328 N84-18669
Microwave emission from relativistic electron beams
[AD-A137752] 11 p1730 N84-21285
Improved computer modelling of magnetron injection guns for gyrotrons
[DE84-007536] 15 p2330 N84-24992
Plasma dynamics 22 p3683 N84-33354

MAGNETS
NT CRYOGENIC MAGNETS
NT ELECTROMAGNETS
NT FERRIMAGNETS
NT SUPERCONDUCTING MAGNETS
NT WIGGLER MAGNETS
Permanent-magnet motors and generators for aircraft 01 p0010 N84-10062
Cycloconverter on the all-electric airplane 01 p0011 N84-10069
Improved transistor-controlled and commutated brushless DC motors for electric vehicle propulsion
[NASA-CR-168053] 01 p0069 N84-10450
Study of materials having significance for high energy magnet production and for hydrogen storage
[AD-A130900] 01 p0136 N84-10906
Permanent magnet generator rotor containment study
[AD-A131252] 01 p0138 N84-10908
Correlation of superconductor strand, cable, and dipole critical currents in CBA magnets
[DE83-003951] 02 p0214 N84-11400
Development of a continuous monitor for detection of toxic organic compounds
[PB83-234922] 03 p0378 N84-12461
Study and review of permanent magnets for electric vehicle propulsion motors
[NASA-CR-168178] 04 p0617 N84-14071
Studies of coercive force of permanent magnet materials
[AD-A138123] 12 p1898 N84-22360
Atomic hydrogen for low temperature atomic hydrogen masers and in-vacuum dissociators for VLG-11 series masers
[NASA-CR-173506] 14 p2150 N84-23880
Stability of permanent magnets
[AD-A139471] 14 p2220 N84-24320
Shaft transducer having dc output proportional to angular velocity
[NASA-CASE-NPO-15706-1] 18 p2838 N84-28017
Method and source for producing a high concentration of positively charged molecular hydrogen or deuterium ions
[DE84-011030] 20 p3295 N84-30918
Selection rules for the spontaneous phase transitions in magnetoelastic metamagnets
[DE84-701200] 24 p3960 N84-35070

MAGNIFICATION
Spectral slicing X-ray telescope with variable magnification
[NASA-CASE-MFS-25942-1] 07 p1089 N84-17084

MAGNIFIERS
U MAGNIFICATION

MAGNITUDE
NT STELLAR MAGNITUDE
Homogeneous magnitude system of the Eurasian continent: S and L waves
[PB84-101161] 08 p1188 N84-17744
Summary of earthquake intensity file: A computerized file of the effects of earthquakes in the United States
[PB84-101443] 08 p1189 N84-17745
Subsynoptic variations in SEASAT winds
[PB84-131697] 09 p1350 N84-18823
A study of tropical cyclone intensity from satellite imagery 24 p3956 N84-35048

MAGNONS
Magnetic properties of Mo/Ni superlattices
[DE84-000568] 04 p0614 N84-14053
Magnetic excitations in transition-metal ferromagnets. Recent progress and future prospects on neutron scattering experiments
[DE84-006808] 18 p2928 N84-28566
Band structure effects in the electronic properties of solids assessible in neutron scattering studies
[DE84-006557] 18 p2941 N84-28654

MAGNUS EFFECT
Computations of projectile magnus effect at transonic velocities
[AD-A133212] 06 p0783 N84-15127

MAGSAT SATELLITES
Comparison of SCC magnitudes at MAGSAT altitudes (325-550 km) and at ground locations
[INPE-2690-PRE/400] 02 p0239 N84-11584

MAIN SEQUENCE STARS
NT PRE-MAIN SEQUENCE STARS
A study of the empirical mass-luminosity diagram for early type stars 04 p0618 N84-14075
A study of magnetic, line-blanketed model atmospheres 05 p0762 N84-15001
Narrow-band photometry of faint red stars, 2
[BULL-191] 06 p1243 N84-16126
Bright, rapid, highly polarized radio spikes from the M dwarf AD Leo
[AD-A136205] 09 p1418 N84-19275
Far-IR selected star formation regions
[NASA-TM-85955] 16 p2574 N84-26521
A high dispersion spectral analysis of three pre-main sequence stars 16 p2576 N84-26532
Magnetic activity in lower main sequence stars 24 p3975 N84-35175
Spectral analysis of helium poor hot subdwarfs 24 p3976 N84-35181

MAINE
Snow cover and meteorology at Allagash, Maine, 1977 - 1980
[AD-A132013] 03 p0410 N84-12684
Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F. Loring AFB, Maine
[AD-A134204] 07 p1037 N84-16729

MAINTAINABILITY
Reliability and maintainability study of select solar-energy-system components in the National Solar Data Network
[DE83-011974] 03 p0404 N84-12647
AFCRL (Air Force Cambridge Research Laboratories) acoustic wind sensor system
[AD-A133739] 05 p0708 N84-14641
Design, development and flight test of a demonstration advanced avionics system 06 p0773 N84-15067
A performance-based technique for assessing equipment maintainability
[AD-A133518] 06 p0894 N84-15809
Reliability and maintainability data acquisition in equipment development tests
[DE84-002994] 07 p1084 N84-17051
Data and analysis center for software: An IAC in transition
[AD-A135965] 09 p1369 N84-18936
IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study bibliography
[AD-A137327] 10 p1503 N84-19825
R and M (Reliability and Maintainability) parameter analysis document IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A137328] 10 p1503 N84-19826
Artificial intelligence applications to maintenance technology working group report IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A137329] 10 p1503 N84-19827
Cabling and connectors technology working group report IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A137330] 10 p1504 N84-19828
Structural composites technology working group report IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A137331] 10 p1504 N84-19829
Directed energy technology working group report IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A137332] 10 p1504 N84-19830
Fiber optics technology working group report IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study. Part 1: Executive summary
[AD-A137333] 10 p1504 N84-19831
Operational software technology working group report IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A137335] 10 p1504 N84-19832
Electronic packaging and interconnect technology working group report IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A137336] 10 p1504 N84-19833
Mechanical systems conditioning monitoring technology working group report IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability Maintainability) study
[AD-A137524] 10 p1504 N84-19834
Power supply technology working group report IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A137525] 10 p1504 N84-19835
Testing technology working group report IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A137526] 10 p1504 N84-19836
Engineering and technical services to improve reliability and maintainability of instrument landing system components
[DOT/FAA/PM-84/7] 11 p1604 N84-20503
VHSIC technology working group report (IDA/OSD R&M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A137720] 11 p1646 N84-20766
CAD/CAM technology working group report IDA/OSD R/M (Institute for Defense Analyses/Office of the Secretary of Defense Research and Maintainability) study
[AD-A137761] 11 p1666 N84-20867
Software interoperability and reusability. Volume 2: Guidebook for software quality measurement
[AD-A138478] 12 p1884 N84-22277
Future engine technologies and their effect on maintenance — aircraft engines
[PNR-90190] 14 p2110 N84-23651
Nondestructive Evaluation Technology Working Group report (IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability study)
[AD-A139484] 14 p2156 N84-23919
Reliability growth testing effectiveness
[AD-A141232] 18 p2851 N84-28102
F/A-18 AN/APG-65 radar case study report (IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A142103] 19 p3007 N84-29057
AN/APN-128 Lightweight Doppler Navigation System (LDNS) case study report (IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A142072] 20 p3127 N84-29860
F-15 AN/APG-63 radar case study report IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A142071] 20 p3129 N84-29873
F-16 APG-66 fire control radar case study report IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A142075] 20 p3129 N84-29874
R and M (Reliability and Maintainability) program review elements document (IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A142073] 20 p3199 N84-30322

T700 engine case study report. IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A143104] 21 p3343 N84-31211
An evaluation of two reliability and maintainability information systems
[AD-A143436] 22 p3674 N84-33290
System requirements and characteristics, book 3
[NAS 1.15:86652-BK-3] 23 p3698 N84-33440

MAINTENANCE
NT AIRCRAFT MAINTENANCE
NT FILE MAINTENANCE (COMPUTERS)
NT SPACE MAINTENANCE
NT SPACECRAFT MAINTENANCE
Improved acrylic systems for rapid runway repair
[AD-A130389] 01 p0016 N84-10103
The effects of weather on rapid runway repair, volume 2
[AD-A130350] 01 p0016 N84-10105
Defect occurrence in the manufacture of large CFC structures and work associated with defects, damage and repair of CFC components 01 p0035 N84-10223
Evaluating and quantifying user perception of pavement serviceability
[PB83-207308] 01 p0058 N84-10375
Potential inspection, maintenance and repair techniques for the OTEC (Ocean Thermal Energy Conversion) systems
[PB83-221374] 01 p0060 N84-10397
Issues in software maintenance
[AD-A130622] 01 p0121 N84-10786
Optimization of long range major rehabilitation of airfield pavements 02 p0182 N84-11181
Software development and maintenance guidelines, volume 1
[DE83-902192] 02 p0274 N84-11793
Computer science and technology: Care and handling of computer magnetic storage media
[PB83-237271] 02 p0276 N84-11809
Effects of integrated maintenance on the definitions of onboard equipments — Mirage 2000 aircraft 03 p0316 N84-12068
Integrated logistic supportability (Aviation materiel)
[AD-A132367] 04 p0478 N84-13146
Flight service evaluation of advanced composite ailerons on the L-1011 transport aircraft
[NASA-CR-172246] 04 p0491 N84-13223
Field maintenance of radiation-shielding windows at HFEF
[DE83-015376] 04 p0507 N84-13326
Detection of cracks on highway pavements
[PB83-238204] 04 p0516 N84-13389
Techniques of condition monitoring and fault diagnosis in industry 04 p0546 N84-13595
An assessment of selected Army technical manuals
[AD-A132680] 05 p0654 N84-14302
Maintenance communications for the 1990's
[AD-A133978] 05 p0666 N84-14383
On the use of replacements to extend system life
[AD-A132878] 05 p0690 N84-14532
Interface specifications for the SCR (A-7E) application data types module
[AD-A132717] 05 p0729 N84-14785
A future system design technique based on functional decomposition, supported by quantifiable design aims, and guidelines for minimum maintenance costs 06 p0769 N84-15039
Microwave methods and apparatus for paving and paving maintenance
[DE84-016306] 06 p0822 N84-15359
A performance-based technique for assessing equipment maintainability
[AD-A133518] 06 p0894 N84-15809
An approach to logistic problems by the L-transform method 06 p0906 N84-15884
Field expedient repair of fiber optic cables
[AD-A134276] 07 p0985 N84-16382
Multistate reliability
[AD-A134589] 07 p1013 N84-16572
Handbook for broadband isotropic antenna system. Volume 1: Operation manual
[PB84-101948] 08 p1153 N84-17510
Software maintenance on FORTRAN libraries at a large computer installation
[DE84-002006] 08 p1213 N84-17914
Guidance on software maintenance
[PB84-128951] 09 p1371 N84-18952
Research on shock models, wear processes, replacement and maintenance policies
[AD-A135620] 09 p1382 N84-19028
Mobilization and defense management technical reports series. Management implications of industrial support capabilities for Space Shuttle operations
[AD-A137460] 10 p1438 N84-19390
Repair and restoration of paved surfaces. Phase 2: Backfilling of craters
[AD-A135745] 10 p1471 N84-19610
Techniques for predictive maintenance in industrial installation and failure diagnostic 10 p1503 N84-19624
Artificial intelligence applications to maintenance technology working group report IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A137329] 10 p1503 N84-19627
Altering the application of the traditional systems lifecycle
[DE84-000052] 10 p1505 N84-19637
AVRADCOM research helicopter vibration 10 p1507 N84-19667
Missile component repair while wearing NBC protective clothing
[AD-A137315] 10 p1553 N84-20180
An inventory planning system
[INPE-2766-PRE/339] 10 p1591 N84-20423
Active reliability engineering, technical concept and program plan. A solid-state systems approach to increased reliability and availability in military systems
[AD-A137541] 11 p1666 N84-20666
Integrated testing and maintenance technologies
[AD-A138587] 13 p1925 N84-22526
Moisture transport in composites during repair work
[AD-A138658] 13 p1954 N84-22703
Documentation for software maintenance
[AD-A138663] 13 p2028 N84-23152
Central Demand Data Base (CDDB) End Item Code (EIC)
[AD-P002807] 13 p2059 N84-23353
A development of logistics management models for the Space Transportation System
[NASA-CR-173504] 14 p2113 N84-23684
Software improvement process: Its phases and tasks. Part 1: Text. Part 2: Appendices
[PB84-162460] 14 p2206 N84-24242
The design and performance of a combustor with a multiple jet primary zone 15 p2291 N84-24749
Computer science and technology: Selection of microcomputer systems
[PB84-167725] 15 p2389 N84-25331
Uninstalled aero engine testing in operation in the Royal Air Force 16 p2453 N84-25731
The repair and modification of printed-circuit boards and solder joints for space use
[ESA-PSS-01-728-ISSUE-1] 16 p2477 N84-25881
Swedish Air Force maintenance programme for aged transparent enclosures for jet trainer and jet fighter aircraft
[AD-P003206] 17 p2593 N84-26621
Heat: Initiated furan resin for rapid runway repair
[AD-A140902] 17 p2611 N84-26713
Repair techniques for celion/LARC-160 graphite/polyimide composite structures
[NASA-CR-3794] 17 p2617 N84-26752
The life cycle cost of integrated logistic support 17 p2652 N84-26962
Comparing software development methodologies for Ada (trade name): A study plan
[PB84-178029] 17 p2755 N84-27491
Justification of estimates for fiscal year 1985 submitted to Congress February 1984. Aircraft procurement, Air Force
[AD-A140837] 17 p2773 N84-27610
Process for renovating aircraft tires tested 18 p2790 N84-27712
Safety study: Airport certification and operations
[PB84-917002] 19 p2960 N84-28761
Bomb damage repair: Precast slab design
[AD-A141687] 19 p2970 N84-28819
Reuse in the context of a transformation based methodology
[AD-A141514] 19 p2984 N84-28910
Study of the FAA (Federal Aviation Administration) program to modernize maintenance operations
[AD-A142295] 20 p3125 N84-29848
Field repair of AH-16 helicopter window cutting assemblies
[NASA-TM-85831] 20 p3128 N84-29864
Battery test results on Gould GC2-EV200
[DE84-900635] 20 p3181 N84-30208
Advanced teleoperation in nuclear applications: Consolidated fuel reprocessing program
[DE84-011631] 20 p3197 N84-30303
Effects of variations in coldworking repair procedures on flaw growth and structural life
[AD-A141966] 20 p3202 N84-30336
Operation and maintenance of selected ozone and ultraviolet disinfection systems
[PB84-180124] 20 p3265 N84-30719
Improvements to software maintenance methods in real time embedded aviation flight systems
[AD-A141949] 20 p3269 N84-30742
Composite structure repair
[AD-A141458] 21 p3358 N84-31300
The Electric Vehicle Project
[DE84-011788] 21 p3522 N84-32309
Preliminary guidelines for maintenance of polyurethane foam (PUF) roofing systems
[AD-A143458] 22 p3560 N84-32543
Investigation and rehabilitation to extend service life of DSS-13 antenna concrete foundation 22 p3574 N84-32637
Prolonging the life of software
[DE84-001722] 22 p3641 N84-33086
Programmer productivity aid catalog
[PB84-212166] 22 p3642 N84-33095
PAN AIR: A computer program for predicting subsonic or supersonic linear potential flows about arbitrary configurations using a higher order panel method. Volume 4: Maintenance document (version 1.1)
[NASA-CR-3254] 23 p3690 N84-33366
System operations, book 6
[NAS 1.15:86652-BK-6] 23 p3699 N84-33442
Damaged radar radome repair device
[AD-D011158] 23 p3712 N84-33528
System for maintaining the alignment of mandrels in filament winding operations
[DE84-014660] 23 p3727 N84-33617
Radio frequency distribution assembly, operations and maintenance manual
[AD-A143864] 23 p3731 N84-33649
Battery safety procedures for surface-mining equipment
[LC-84-600162] 23 p3741 N84-33713
Analysis of the double overlap fatigue specimen
[ARL-STRUC-REPT-402] 23 p3760 N84-33833
A problem of determining the optimal policy for maintenance systems with reserve machines and a variable number of servers
[INPE-3197-TDL/173] 23 p3832 N84-34310
The problem of determining the optimum policy for maintaining systems with spare machines and a number of variable servers
[INPE-3132-PRE/523] 23 p3833 N84-34312
An optimum policy for a system of maintenance with control by a repair time distribution
[INPE-3131-PRE/522] 23 p3833 N84-34313
Evaluation of aircraft battery charge, discharge, and analyzation requirements for ground support equipment
[AD-A144243] 24 p3897 N84-34678

MAINTENANCE TRAINING
Cost-effective and efficient maintenance training devices: A user accepted design process
[AD-P003456] 21 p3509 N84-32233
Operational requirements for the Remote maintenance Monitoring System (RMMS)
[AD-A144218] 24 p3894 N84-34659

MALEATES
Fire and heat resistant laminating resins based on maleimido substituted aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-1] 13 p1953 N84-22697
Poly(ethylene maleate) - cyclopentadiene: A model reactive polymer-vapor system for evaluation of a SAW (Surface Acoustic Wave) microsensor
[AD-A141531] 19 p2999 N84-29001

MALES
Prevention of acute mountain sickness by dexamethasone
[AD-A131533] 01 p0114 N84-10737
Adaptations to a high fat diet which increase exercise endurance in male rats 04 p0570 N84-13755
Metabolic disturbances in man in an environment with low ammonia level and their correction by graded physical exercise 07 p1045 N84-16780
Effects of heat acclimation on atropine impaired thermoregulation
[AD-A139292] 15 p2380 N84-25282
Changes in attitudes toward women at the Air Force Academy
[AD-P003261] 18 p2906 N84-28428
Risk-taking performance of military personnel: Sex differences and practice effects
[AD-P003262] 18 p2906 N84-28429
Upper body exercise performance: Comparison between women and men
[AD-A142330] 19 p3066 N84-29454
Oxygen affinity of hemoglobin, 3 hours after passive increase in altitude from 400 to 1800 metres
[RAE-TRANS-2118] 22 p3630 N84-33004
Upper to lower body muscular strength and endurance ratios for women and men
[AD-A143621] 23 p3811 N84-34188

MALFUNCTIONS
A representational basis for the development of a distributed expert system for Space Shuttle flight control
[NASA-TM-58258] 16 p2544 N84-26328
MAMMALS
NT BABOONS
NT CATS
NT CATTLE
NT DOGS
NT HUMAN BEINGS
NT MICE
NT MONKEYS
NT PRIMATES
NT RABBITS
NT RATS
NT RODENTS
NT SHEEP
NT WHALES
The effects of hyperbaric elemental gases on the rate coefficient of K(+) influx in mammalian synaptosomes
04 p0570 N84-13754
Four frames suffice. A provisionary model of vision and space
[AD-A132359] 04 p0580 N84-13825
Mammalian gravity receptors: Structure and metabolism 09 p1353 N84-18840
Effects of simulated weightlessness on mammalian development. Part 1: Development of clinostat for mammalian tissue culture and use in studies on meiotic maturation of mouse oocytes 09 p1357 N84-18868
Growth and differentiation of mammalian embryonic tissues exposed to hypergravity in vivo and in vitro
09 p1357 N84-18869
Rodent CNS neuron development: Timing of cell birth and death 09 p1357 N84-18870
MAN
U HUMAN BEINGS
MAN ENVIRONMENT INTERACTIONS
Carbon in live vegetation of major world ecosystems
[DE83-015328] 01 p0101 N84-10654
Introductory studies of natural contamination and manmade pollution in Danish waters
03 p0399 N84-12608
Arctic Terrestrial Environmental Research Programs of the Office of Energy Research, Department of Energy: Evaluations and recommendations. Appendix B: Components of an Arctic Terrestrial Environmental Research Program
[PB84-129766] 11 p1672 N84-20913
Present-day status of investigations of anthropogenic influence on atmospheric ozone
17 p2697 N84-27180
New facts concerning dessication of Central Asia
18 p2856 N84-28136
Situational interaction: A peer counseling approach to AWOL (unauthorized absences from duty) reduction
[AD-P003243] 18 p2903 N84-28410
Guidelines for assessment and control of noise
19 p3070 N84-29477
Guidelines for Man/Display interfaces with relevance to military environments
[AD-A142171] 19 p3071 N84-29482
Forest environments 20 p3218 N84-30439
Land biology 20 p3218 N84-30440
Tropospheric chemistry 20 p3218 N84-30441
MAN MACHINE SYSTEMS
Design environments and the user interface for CAD of control systems 01 p0015 N84-10095
Low altitude simulator training: A-10 aircraft
[AD-A130794] 01 p0016 N84-10106
Space applications of Automation, Robotics And Machine Intelligence Systems (ARAMIS). Volume 3, phase 2: Executive summary
[NASA-CR-3736] 01 p0089 N84-10582
Space Applications of Automation, Robotics and Machine Intelligence Systems (ARAMIS), phase 2. Volume 1: Telepresence technology base development
[NASA-CR-3734] 01 p0089 N84-10583
Space Applications of Automation, Robotics and Machine Intelligence Systems (ARAMIS), phase 2. Volume 2: Telepresence project applications
[NASA-CR-3735] 01 p0090 N84-10584
The Total Library System (TLS). Volume 1: What it can do for you
[AD-A130336] 01 p0161 N84-11058
Method for evaluating operator inputs to digital controllers
[DE83-013521] 02 p0269 N84-11763
Natural language communication with machines: An ongoing goal
[AD-A131320] 02 p0278 N84-11820
A comparison of manual and vocal response modes for the control of aircraft subsystems
[AD-A132046] 03 p0330 N84-12152
Automated reasoning in man-machine control systems
[DE83-014307] 03 p0424 N84-12774
Analysis of large space structures assembly: Man/machine assembly analysis
[NASA-CR-3751] 04 p0486 N84-13208
Control device manipulative behavior, arousal and performance during a compensatory tracking task
[AD-A133921] 05 p0713 N84-14670
The effects of task structures, dynamics of difficulty changes, and strategic resource allocation training on time-sharing performance
[AD-A134112] 05 p0715 N84-14685
Processing phenomena and the dissociation between subjective and objective workload measures
[AD-A134050] 05 p0715 N84-14686
The ability to process abstract information
[AD-A133794] 05 p0716 N84-14689
Computer aided techniques for crew station design, work-space Organizer-WORG, workstation layout Generator-WOLAG
[AD-A132981] 05 p0716 N84-14693
Methods for improving the user-computer interface
[AD-A132657] 05 p0719 N84-14713
Integrated Software Engineering Facilities (ISEF)
05 p0721 N84-14730
Modeling the user in intelligent user interfaces
[DE84-012664] 05 p0730 N84-14795
System architecture: Key to future avionics capabilities 06 p0768 N84-15035
Flight Mechanics and System Design Lessons From Operational Experience
[AGARD-CP-347] 06 p0775 N84-15076
The analysis of records of parameters: An indispensable tool in oversight and in operations control
06 p0775 N84-15082
The man-machine interface in new generation commercial aircraft 06 p0777 N84-15096
New flight deck design in the light of the operational capabilities 06 p0778 N84-15097
Automatic inspection for printed wiring
[AD-A133328] 06 p0854 N84-15566
Applied psychology in Europe: An ONR perspective
[AD-A133093] 06 p0892 N84-15797
Aids for decision making with conflicting objectives
[CSIR-SWISK-32] 07 p1059 N84-16861
Aircrew training devices: Utility and utilization of advanced instructional features. Phase I: Tactical Air Command
[AD-A135052] 08 p1106 N84-17190
Man and machine. The role of human factors in system development
[FOA-A-56005-H2] 08 p1206 N84-17863
EASAMS architecture for management and control systems 08 p1207 N84-17871
Proceedings of the Conference on Joint Problem Solving and Microcomputers
[AD-A135001] 08 p1211 N84-17901
The effect of locus of control on performance with man-machine dialogues 08 p1239 N84-18096
Computer programs for helicopter high speed flight analysis
[AD-A136376] 09 p1255 N84-18191
A pilot/vehicle model analysis of the effects of motion cues on Harrier control tasks
[AD-A136291] 09 p1258 N84-18209
Space Station Technology, 1983
[NASA-CP-2293] 09 p1268 N84-18277
Human capabilities 09 p1268 N84-18282
Science of integration
[AD-A135590] 09 p1364 N84-18906
User centered system design
[AD-A136131] 09 p1364 N84-18907
Dynamic sequence assignment
[AD-A136548] 09 p1384 N84-19037
Active databases as a paradigm for enhanced computing environments
[AD-A135808] 09 p1404 N84-19177
A manned-machine space station construction concept
[NASA-TM-85782] 10 p1439 N84-19395
Instructional systems development model for interactive videodisc
[AD-A136737] 10 p1498 N84-19790
Researching the man-machine system as a function of soil-environment system 10 p1511 N84-19894
A stochastic model for the Man-Machine-Soil-Environment System (MMSES) and the influence of vibrations 10 p1512 N84-19895
Pilot behavior models for LSO (Landing Signal Officer) training systems
[AD-A135823] 10 p1552 N84-20169
Psychological research in USA within the areas of anti-tank helicopter operations and man-computer interactions: Study trip to USA, May-June 1983
[FOA-C-53012-H2] 10 p1552 N84-20172
GENIE: A computer-based task for experiments in human-computer interaction
[AD-A137473] 10 p1553 N84-20181
A review of major issues relating to human-machine integration in the development of military systems
[AD-A136739] 10 p1554 N84-20184
Applied cognitive science
[AD-A136780] 10 p1554 N84-20185
Issues in interaction language specification and representation
[AD-A136943] 10 p1555 N84-20188
The behavioral demonstrator: A requirements specification executor
[AD-A136944] 10 p1555 N84-20189
Dialogue management: New concepts in human-computer interface development
[AD-A136945] 10 p1555 N84-20190
Research on interactive acquisition and use of knowledge
[AD-A137436] 10 p1568 N84-20270
A learning adaptive controller
10 p1568 N84-20272
Multiple launch rocket system: A case study of manpower, personnel and training requirements determination
[AD-A137644] 11 p1620 N84-20606
The Application of New Technologies to Improve the Delivery of Aerospace and Defence Information
[AGARD-CP-357] 11 p1750 N84-21425
The standardization of bibliographic data
11 p1751 N84-21432
An optimal control approach to pilot/vehicle analysis and Neal-Smith criteria
[NASA-CR-170416] 12 p1771 N84-21551
En route/terminal ATC (Air Traffic Control) operations concept
[AD-A138991] 13 p1929 N84-22550
Development of a generalized human-machine interface
[AD-P002888] 13 p1979 N84-22849
Research on cognitive collaboration between persons and computers
[AD-P002892] 13 p1980 N84-22853
A man-machine interface concept for a state-of-art, shipboard, command/control console
[AD-P002894] 13 p1980 N84-22854
Alternative knowledge acquisition interface structures
[AD-A139019] 13 p2022 N84-23109
Human factors aspects of C3 systems — command, control, communication (C3)
[PP-119] 13 p2023 N84-23115
An experimental comparison of operator responses to voice and tone system warnings
[BAE-BT-12051] 13 p2023 N84-23117
Bibliography on direct voice input and direct voice output
[BAE-BT-12363] 13 p2023 N84-23118
Human factors in space telepresence
[NASA-CR-173420] 13 p2023 N84-23119
Evaluating multiple coordinated windows for programming workstations 13 p2027 N84-23146
Software engineering for user interfaces
[AD-A138937] 13 p2029 N84-23155
Program Manager's Support System (PMSS): An update
[AD-P002825] 13 p2062 N84-23370
Computer developments at Institute of Automation and Electrometry described 13 p2065 N84-23390
Research in man-machine interaction discussed
13 p2065 N84-23393
Beyond the data base: Technology for information resource management
[AD-A138840] 13 p2067 N84-23402
Robotics impact on labor productivity examined
14 p2187 N84-24104
Impact of Latvian Robotics Institute on industry modernization 14 p2188 N84-24110
The design and development of a release mechanism for space shuttle life-science experiments
15 p2347 N84-25079
A multivariate autoregressive display monitoring model
[NLR-MP-83033-U] 15 p2384 N84-25296
Human-computer interactions and decision behavior
[AD-A139759] 15 p2384 N84-25299
STP: A mechanized logic for specification and verification 15 p2386 N84-25308
A summary of HDM 15 p2386 N84-25312
APL (A Programming Language) TUTOR: An on-line instructional facility
[AD-A140117] 15 p2393 N84-25359
Emulation of a voice interactive Doppler navigation set
[AD-A140204] 16 p2446 N84-25687
F-14 modeling study
[NASA-CR-172336] 16 p2448 N84-25701
Integrated systems of manufacture (robotics) technology working group report (IDA/OSD Rand M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study)
[AD-A140304] 16 p2477 N84-25878

Edge analyzing properties of center/surround response functions in cybernetic vision
[NASA-TM-85809] 16 p2484 N84-25927
Compacted virtual search tree and addressed ordered binary trees for file organization
[INPE-3075-TDL/161] 16 p2548 N84-26349
NC-controlled machine with a cable
[MBB-UT-21-83-O] 16 p2564 N84-26450
An analysis of naval aviation configuration status accounting
[AD-A140473] 16 p2565 N84-26460
Possibilities of creating invariant man-machine systems 17 p2743 N84-27414
Analogies between control mechanisms in flight guidance and medicine 17 p2744 N84-27420
Display-control compatibility in 3-D displays
[AD-A140640] 17 p2748 N84-27444
A model of human problem solving in dynamic environments
[AD-A140862] 17 p2748 N84-27446
Microcomputers: Introduction to features and uses
[PB84-176821] 17 p2750 N84-27456
The impact of communicating through computers 17 p2750 N84-27457
Institute achievements in man-machine relations 18 p2827 N84-27950
Spatiotemporal structure of quanta of industrial work and its physiological basis 18 p2897 N84-28379
Visual display technology: A developing challenge for the behavioral scientist
[AD-P003290] 18 p2908 N84-28441
Computer-automated technological innovation in three manufacturing sectors
[AD-P003309] 18 p2909 N84-28450
Management information systems: A need for human factors
[AD-P003313] 18 p2909 N84-28452
The structure of processing resource demands in monitoring automatic systems
[AD-P003319] 18 p2910 N84-28455
MAGIC (Microcomputer Applications of Graphics and Interactive Communications). 1: A study of manual versus vocal control under heavy task loading
[AD-P003320] 18 p2910 N84-28456
The limits of multiple resource theory in display formatting: Effects of task integration
[AD-P003321] 18 p2910 N84-28457
Tracking with intermittent radar coverage. 1: Interruptions after each collected frame of imagery
[AD-P003322] 18 p2910 N84-28458
Psychophysiological tools in engineering psychology
[AD-P003337] 18 p2911 N84-28461
Criteria for selecting subjects for the assessment of advanced crew system concepts
[AD-P003354] 18 p2912 N84-28470
NOSC (Naval Ocean Systems Center)-Hawaii perceptual sciences research program
[AD-P003361] 18 p2913 N84-28474
Interactions of motion perception with pattern perception
[AD-P003363] 18 p2913 N84-28476
Video games: A human factors guide to visual display design and instructional system design
[AD-P003368] 18 p2914 N84-28480
User centered system design. Part 2: Collected papers from the UCSD HMI project
[AD-A141023] 18 p2915 N84-28486
User-system interface design in system acquisition
[AD-A140956] 18 p2943 N84-28664
Digital multivariable tracker control laws for the KC-135A
[AD-A141118] 19 p2964 N84-28786
A review of US Army aircrew-aircraft integration research programs
[NASA-TM-85947] 19 p2968 N84-28809
Proposal and development plan for an aircraft systems integration laboratory
[AD-A141827] 19 p2970 N84-28822
Aerospace Medicine and Biology: A continuing bibliography with indexes (supplement 260)
[NASA-SP-7011(260)] 19 p3064 N84-29440
Pilot interaction with automated airborne decision making systems
[NASA-CR-173782] 19 p3068 N84-29464
A multiple processing resource explanation of the subjective dimensions of operator workload
[AD-A141455] 19 p3070 N84-29480
Guidelines for Man/Display interfaces with relevance to military environments
[AD-A142171] 19 p3071 N84-29482
Strategic computing and survivability research
[AD-A141717] 19 p3081 N84-29548
Man-machine systems group
[WTHD-161] 20 p3263 N84-30703
The Man-Machine Systems Group 20 p3263 N84-30704
Summaries of doctorate theses — man machine systems 20 p3263 N84-30705
Supervisory control: Introduction and theory — industrial plant control 20 p3263 N84-30706
A utility plant simulator for control room experiments 20 p3264 N84-30708
Interaction of human cognitive models and computer-based models in supervisory control
[AD-A142677] 20 p3265 N84-30717
Development of a computer-assisted simulation of tactical voice communications. Phase 1: Conceptual design
[AD-A143036] 21 p3386 N84-31492
Knowledge-based expert systems for crop identification 21 p3428 N84-31744
Results of psychophysiological study of Videoton terminal operators 21 p3454 N84-31919
Pilot oriented performance measurement
[AD-P003450] 21 p3508 N84-32227
An adaptive CBT (Computer Based Training) courseware authoring system to meet the needs of military authors
[AD-P003460] 21 p3510 N84-32237
User-friendly software: The role of the user
[AD-P003489] 21 p3514 N84-32258
Battery Computer System (BCS) human factors field evaluation
[AD-A143425] 22 p3638 N84-33062
Programming productivity enhancement by the use of application generators
[AD-A143532] 22 p3640 N84-33080
The workload book: Assessment of operator workload to engineering systems
[NASA-CR-166596] 23 p3810 N84-34160
Human capabilities in space — man machine interaction
[NASA-TM-87360] 23 p3811 N84-34165
Academician Vamos interviewed on automation related problems 24 p3944 N84-34972
SPIRIT: An evolutionally designed intelligent tutoring system
[AD-A144638] 24 p3949 N84-35003

MAN OPERATED PROPULSION SYSTEMS
Manned maneuvering unit simulations on the Space Operations Simulator 24 p3864 N84-34490

MANAGEMENT
NT CONFIGURATION MANAGEMENT
NT CONTRACT MANAGEMENT
NT DATA MANAGEMENT
NT ENGINEERING MANAGEMENT
NT ENVIRONMENT MANAGEMENT
NT FINANCIAL MANAGEMENT
NT FOREST MANAGEMENT
NT INDUSTRIAL MANAGEMENT
NT INFORMATION MANAGEMENT
NT INVENTORY CONTROLS
NT INVENTORY MANAGEMENT
NT LAND MANAGEMENT
NT LOGISTICS MANAGEMENT
NT MATRIX MANAGEMENT
NT PERSONNEL MANAGEMENT
NT PROCUREMENT MANAGEMENT
NT PRODUCTION MANAGEMENT
NT PROJECT MANAGEMENT
NT RESEARCH MANAGEMENT
NT RESOURCES MANAGEMENT
NT SAFETY MANAGEMENT
NT SYSTEMS MANAGEMENT
NT WATER MANAGEMENT
NT WEAPON SYSTEM MANAGEMENT
Classification management. Journal of the National Classification Management Society, volume 18, 1982
[AD-A138460] 12 p1919 N84-22502
Management. A continuing bibliography for NASA managers, with indexes
[NASA-SP-7500(18)] 16 p2561 N84-26429
Workshops for management of combat stress
[AD-P003283] 18 p2907 N84-28439
Leadership, managership, and computers in today's Air Force
[AD-P003351] 18 p2912 N84-28468
Organizational structures, processes, and problems: A literature review and taxonomy
[AD-A140979] 18 p2943 N84-28665
Fault management 20 p3264 N84-30709
The relationship between administrative style and the use of computer-based systems: An attitudinal study of academic library professionals 21 p3517 N84-32276
Voluntary accounting systems for a small air carrier: Revenues, financial and traffic statistics
[PB84-210996] 22 p3533 N84-32369
Hierarchical planning systems applied to production: A study
[INPE-3147-PRE/531] 23 p3833 N84-34314

MANAGEMENT ANALYSIS
Perspectives on oversight management of software development projects
[AD-A133404] 06 p0933 N84-16064
Organizational-climate dimensions: A conceptual and judgmental analysis
[AD-A132896] 06 p0934 N84-16068
A normative model of work team effectiveness
[AD-A136396] 10 p1551 N84-20165
Managers handbook for software development
[NASA-TM-85604] 13 p2028 N84-23150
West Europe report: Science and technology
[JPRS-WST-84-011] 13 p2038 N84-23224
Thomson semiconductors bipolar IC strategy to 1986 13 p2039 N84-23227
Contract requirements: A key to controlling DoD acquisition costs
[AD-P002828] 13 p2062 N84-23373
Incentives for new production discussed 13 p2064 N84-23388
Models of purposive human organization: A comparative study
[AD-A138671] 14 p2247 N84-24491
Interactive decision analysis and modelling
[CSIR-TWISK-294] 15 p2400 N84-25403
Control systems
[AD-A140901] 17 p2771 N84-27592
Stronger direction needed for the National Earthquake Program
[GAO/RCED-83-103] 20 p3240 N84-30570
Development of a document preparation staff within an office automation environment
[DE84-008649] 20 p3313 N84-31041
An evaluating report on the Institute for Computer Sciences and Technology, National Bureau of Standards, fiscal year 1983
[PB84-194802] 21 p3516 N84-32271
USSR report: Machine tools and metalworking equipment
[JPRS-UMM-84-017] 24 p3891 N84-34640
Managerial and organizational determinants of efficiency in research teams (social sciences)
[AD-A144153] 24 p3968 N84-35125

MANAGEMENT INFORMATION SYSTEMS
A conceptual study of automatic and semi-automatic quality assurance techniques for round image processing
[NASA-CR-170610] 02 p0230 N84-11508
Hydrographic survey requirements system (HYSUR)
[AD-A131115] 02 p0240 N84-11573
Office automation management guide
[AD-A131770] 03 p0458 N84-13012
Knowledge base management for model management systems
[AD-A132211] 04 p0615 N84-14062
The determination of user information requirements during the development of management information systems
[AD-A132998] 05 p0759 N84-14960
Management information system for engineering
[DE84-001655] 05 p0760 N84-14964
An exploratory study of the use of an inexpensive cordless telephone as a part of a data communications link — management information in hospitals
[AD-A134228] 07 p0992 N84-16432
Information needs and system specifications for the B-1B executive information system
[AD-A134424] 07 p1065 N84-17054
A program for developing automated scientific-information processing in maritime economy
[AD-A135518] 08 p1240 N84-18107
An approach to the design of a management information system: Development procedure for the Indonesian defense logistics staff
[AD-A134974] 08 p1240 N84-18108
Requirements analysis for forward funding tracking system, volume 1
[AD-A136840] 10 p1591 N84-20425
Requirements analysis for milestone tracking system, volume 2
[AD-A136841] 10 p1591 N84-20426
Human engineering guidelines for management information systems. Change 1
[AD-A137808] 11 p1703 N84-21104
Applications of operations research and management information system concepts to management of large software projects 11 p1718 N84-21204
NASA Administrative Data Base Management Systems, 1983
[NASA-CP-2304] 11 p1747 N84-21403
Action Information Management System (AIMS): A user's view 11 p1748 N84-21405
Automated RTOP management system 11 p1748 N84-21406
Intercenter Problem Reporting and Corrective Action System (PRACAS) 11 p1748 N84-21408

Automated administrative data bases
11 p1749 N84-21411
NASA-wide standard administrative systems
11 p1749 N84-21415
Managing geometric information with a data base management system 12 p1874 N84-22211
Mechanized contract document preparation and abstract system
[AD-P002750] 13 p2050 N84-23297
The acquisition management information system: Friend or foe?
[AD-P002751] 13 p2050 N84-23298
Program Manager's Support System (PMSS): An update
[AD-P002825] 13 p2062 N84-23370
Increasing the Contractor/Subcontractor/Vendor bidding lists
[AD-P002836] 13 p2063 N84-23381
A study of MX environmental management information system (MXEMIS) needs
[AD-A139025] 13 p2087 N84-23404
Naval aviation IMA repair capability: A readiness to resources approach
[AD-A140465] 16 p2434 N84-25612
An analysis of naval aviation configuration status accounting
[AD-A140473] 16 p2585 N84-26460
Proceedings of the 9th Symposium on Psychology in the Department of Defense
[AD-A141043] 18 p2902 N84-28403
Workshops for management of combat stress
[AD-P003263] 18 p2907 N84-28439
Prototype development of an information-sharing and decision support system for the manpower personnel and training community
[AD-P003310] 18 p2909 N84-28451
Management information systems: A need for human factors
[AD-P003313] 18 p2909 N84-28452
Evaluating the availability, role, and performance of subcontractors in the aerospace industry
[AD-A141408] 19 p3114 N84-29788
Success with Data Management 4 at the DOE Pinellas Plant
[DE84-008021] 19 p3116 N84-29802
Appropriate technology management information system
[DE84-010952] 20 p3315 N84-31056
Programming productivity enhancement by the use of application generators
[AD-A143532] 22 p3640 N84-33060
NASA Administrative Data Base Management Systems, 1984
[NASA-CP-2323] 22 p3671 N84-33266
Effective organizational solutions for implementation of DBMS software packages 22 p3671 N84-33268
Administrative automation in a scientific environment
22 p3671 N84-33269
The administrative window into the integrated DBMS
22 p3671 N84-33270
A user view of office automation or the integrated workstation 22 p3671 N84-33271
Langley experience with ADABAS/NATURAL
22 p3671 N84-33272
Strip and load data 22 p3672 N84-33273
NASA metrology information system: A NEMS subsystem 22 p3672 N84-33279
Langley's views on NEMS 22 p3672 N84-33280
An evaluation of two reliability and maintainability information systems
[AD-A143436] 22 p3674 N84-33290
An exploratory analysis of the relationship between media richness and managerial information processing
[AD-A143503] 22 p3674 N84-33293
Sandia National Laboratories administrative data processing systems
[DE84-014328] 23 p3817 N84-34202
Managing microcomputers: A survival kit for functional managers
[AD-A144006] 23 p3833 N84-34316
The creation of a central database on a microcomputer network
[AD-A143875] 23 p3835 N84-34326

MANAGEMENT METHODS

NT DELPHI METHOD (FORECASTING)
NT PATTERN METHOD (FORECASTING)
NT PROFILE METHOD (FORECASTING)

Use of scientific potential in industry discussed
01 p0055 N84-10353
Acceleration of S&T progress discussed
01 p0055 N84-10358
Effect from introduction of new technology in the Georgian SSR 01 p0056 N84-10361
Project manager's guide
[DE83-014454] 02 p0301 N84-11977
Motivating managers: A guide to performance targeting and performance-based pay in state and local governments
[PB83-237834] 02 p0301 N84-11978
Quality is not a dirty word
[DE83-012166] 03 p0385 N84-12510
Information resources management plan
[AD-A131964] 03 p0459 N84-13023
Weightlessness and management of liquid rocket propellant
[AD-A132516] 04 p0509 N84-13334
The Nova laser assurance-management system
[DE83-016188] 04 p0542 N84-13568
Formal techniques in the management of software design
[AD-A132569] 04 p0579 N84-13818
Appraisal of scientific resources for emergency management
[AD-A133265] 06 p0933 N84-16062
Mini-Seminar on Quality Assurance
[CSIR-TSD-0008/82] 08 p1167 N84-17600
Quality management in procurement
08 p1167 N84-17601
Guide to software conversion management
[PB84-118314] 09 p1370 N84-18945
Management of aerospace contract documentation by industry and government
[DE84-900451] 11 p1746 N84-21396
ORNL trends and balances, 1984-1969
[DE84-006320] 11 p1746 N84-21397
The application of management techniques to defence and other information services: The British approach
11 p1751 N84-21433
Material handling: A target for productivity improvement
[AD-P002829] 13 p2062 N84-23374
USSR report: Science and technology policy
[JPRS-UST-84-005] 13 p2065 N84-23394
Problems of prompt adoption of new technology discussed 13 p2065 N84-23396
The nature and use of formal control systems for management control and strategy implementation
[AD-A139063] 14 p2247 N84-24493
Quality control in large systems development phase
[SNIAS-832-422-102] 15 p2346 N84-25074
Interactive decision analysis and modelling
[CSIR-TWISK-294] 15 p2400 N84-25403
Decision support for innovation management: Application to the lighting industry
[IIASA-RR-83-29] 15 p2416 N84-25503
Management. A continuing bibliography for NASA managers, with indexes
[NASA-SP-7500(18)] 16 p2561 N84-26429
Increase of worker autonomy at the industrial work place as shown in three humanization projects in Sweden, in Great Britain and in the USA
[BMFT-FB-HA-83-031] 16 p2564 N84-26453
Development of concepts for corrosion assessment and evaluation of underground pipelines
[AD-A140633] 17 p2623 N84-26788
The effects of task variability, sensory reinforcement, and monetary reinforcement on performance, satisfaction, and intrinsic motivation 17 p2769 N84-27584
An investigation of organizational climate: Definition, measurement, and usefulness as a diagnostic technique
17 p2771 N84-27595
Evaluating organizational change through improved understanding of managerial schemata
17 p2771 N84-27596
An analysis of relationships among size, technology and structure in a contextually limited setting
17 p2771 N84-27597
Psychology and study of human factor in management
18 p2896 N84-28382
Evaluation of automated configuration management tools in ADA programming support environments
[AD-A140982] 18 p2944 N84-28666
Managing microcomputers: A survival kit for functional managers
[AD-A144006] 23 p3833 N84-34316
Master list and index to NASA directives
[NASA-TM-87362] 23 p3834 N84-34321
Decision-making process in management automation
24 p3892 N84-34644

MANAGEMENT PLANNING

NT PRODUCTION PLANNING
NT PROJECT PLANNING

Effects of science, technology on structure of production process 01 p0054 N84-10351
Improved planning for local territorial units urged
01 p0055 N84-10360
Effect from introduction of new technology in the Georgian SSR 01 p0056 N84-10361
Scientific-production complexes organized in Georgia
01 p0058 N84-10362
Contributions of academic institutes to effectiveness of new technology in the Georgian SSR
01 p0056 N84-10363
Uzbek scientific intelligentsia under developed Socialism 01 p0056 N84-10365
Audio signal management techniques
[AD-A130391] 01 p0062 N84-10410
Minutes of FSC 5935, Connector Standardization Planning Meeting
[AD-A130681] 01 p0072 N84-10467
Computer-Integrated Manufacturing (CIM): Turning visions to reality
[DE83-015481] 01 p0091 N84-10593
Wind and wave summaries for selected U.S. Coast Guard operating areas
[AD-A130647] 01 p0108 N84-10702
Project manager's guide
[DE83-014454] 02 p0301 N84-11977
Develop a normative or descriptive model of the international/domestic civil aviation industry, volume 3
[AD-A131878] 03 p0314 N84-12051
Develop a normative or descriptive model of the international/domestic civil aviation industry, volume 2
[AD-A131877] 03 p0314 N84-12052
Develop a normative or descriptive model of the international/domestic civil aviation industry. Volume 1: Executive summary
[AD-A131876] 03 p0314 N84-12053
Ris assessment techniques: A handbook for program management personnel
[AD-A131596] 03 p0457 N84-13010
Office automation management guide
[AD-A131770] 03 p0458 N84-13012
Management of QA in an R and D organization
[DE83-016924] 03 p0458 N84-13014
Arizona State science, engineering and technology process
[PB83-237107] 03 p0458 N84-13016
Information resources management plan
[AD-A131964] 03 p0459 N84-13023
Evaluating proposed improvements of public rangelands
[PB83-251124] 04 p0556 N84-13669
Reliability programs for nonelectronic designs, volume 2
[AD-A133625] 05 p0689 N84-14528
Project management techniques for highly integrated programs
[NASA-TM-86023] 05 p0757 N84-14965
Life cycle costing in a dynamic environment
[AD-A133023] 05 p0757 N84-14967
Factors explaining decisions to terminate or continue an R and D project, executive summary
[PB83-256602] 05 p0758 N84-14971
Factors explaining decisions to terminate or continue an R and D project
[PB83-256594] 05 p0758 N84-14972
Commercialization of opportunities for materials processing in low gravity
[NASA-CR-170953] 06 p0793 N84-15165
Perspectives on oversight management of software development projects
[AD-A133404] 06 p0933 N84-16064
Identification of bottlenecks and capacity constraints in F-14, F-15, F-16, and F/A-18 aircraft production
[AD-A134629] 08 p1095 N84-17121
Measuring quality achievements
08 p1168 N84-17605
A strategy for improving overhead cost control
[AD-A134661] 08 p1238 N84-18092
Productivity improvement in a jobbing shop
09 p1293 N84-18449
System engineering management guide
[AD-A136020] 09 p1398 N84-19129
Redesign of cargo mobility containers
[AD-A137396] 10 p1424 N84-19312
An inventory planning system
[INPE-2766-PRE/339] 10 p1591 N84-20423
Knowledge-based support systems for long range planning
[AD-A137311] 10 p1591 N84-20424
Multiple launch rocket system: A case study of manpower, personnel and training requirements determination
[AD-A137644] 11 p1620 N84-20606
Accuracy of software development activity data: The software cost reduction project
[AD-A137639] 11 p1706 N84-21122
Shuttle interaction study extension
[NASA-CR-173403] 12 p1777 N84-21596
Progress in improving program and budget information for Congressional use
[AD-A137491] 12 p1920 N84-22511
Office automation in the acquisition environment
[AD-P002747] 13 p2049 N84-23294

The microcomputer in the acquisition environment
[AD-P002748] 13 p2049 N84-23295
Paperless solicitation and contracting
[AD-P002749] 13 p2050 N84-23296
Mechanized contract document preparation and abstract system
[AD-P002750] 13 p2050 N84-23297
The acquisition management information system: Friend or foe?
[AD-P002751] 13 p2050 N84-23298
Consolidation of DOD bidder's mailing list application
[AD-P002752] 13 p2050 N84-23299
DECISION TECHNOLOGY: The catalyst for acquisition improvement
[AD-P002755] 13 p2051 N84-23302
Designing the equitable risk contract
[AD-P002756] 13 p2051 N84-23303
Assumption of risk in the R and D environment
[AD-P002757] 13 p2051 N84-23304
Skunkworks 81 revisited: An update on acquisition strategy
[AD-P002759] 13 p2051 N84-23306
Closing the gap between R and D and application in academe to better support government and industry
[AD-P002761] 13 p2052 N84-23308
Training acquisition personnel through a local college
[AD-P002766] 13 p2052 N84-23313
The make or buy decision--its nature and impact
[AD-P002779] 13 p2054 N84-23326
Project: Acquisition strategy
[AD-P002809] 13 p2059 N84-23355
Large firm efficiency, concentration, and profitability in defense markets
[AD-P002810] 13 p2059 N84-23356
New initiatives in international programs
[AD-P002813] 13 p2060 N84-23359
Rationalization, standardization and interoperability: Protecting US interests in the process
[AD-P002814] 13 p2060 N84-23360
Quality assurance - Air Force Logistics Command
[AD-P002816] 13 p2060 N84-23361
The avionics integrity program (AVIP)
[AD-P002817] 13 p2060 N84-23362
Quality at the crossroads
[AD-P002818] 13 p2060 N84-23363
Incentives for product quality need contract, cost, production and field co-operation
[AD-P002819] 13 p2061 N84-23364
A quality improvement strategy for systems acquisition
[AD-P002820] 13 p2061 N84-23365
Defense systems acquisition review process: A history and evaluation
[AD-P002822] 13 p2061 N84-23367
A concept for mission-oriented planning for system acquisition at the Defense Communications Agency
[AD-P002823] 13 p2061 N84-23368
Project management: Evolution and influence
[AD-P002824] 13 p2061 N84-23369
Program Manager's Support System (PMSS): An update
[AD-P002825] 13 p2062 N84-23370
Mortality and spareparts: A conceptual analysis
[AD-P002826] 13 p2062 N84-23371
Contract requirements: A key to controlling DoD acquisition costs
[AD-P002828] 13 p2062 N84-23373
Material handling: A target for productivity improvement
[AD-P002829] 13 p2062 N84-23374
Strengthening small business participation in Department of Defense extramural research and development
[AD-P002832] 13 p2063 N84-23377
Employment changes resulting from the award of contracts in labor surplus areas
[AD-P002834] 13 p2063 N84-23379
Automating the source selection process
[AD-P002835] 13 p2063 N84-23380
The Score technique: An analytical approach for assessing the results of manufacturing reviews
[AD-P002838] 13 p2064 N84-23383
Publication in professional journals in science and engineering: A survey of editorial procedures and opinion
[AD-A139913] 13 p2064 N84-23385
Industry urged to increase output of NC machine tool, robotics 14 p2155 N84-23914
The Department of Defense statement on the science and technology program by Dr. Edith W. Martin, Deputy Under Secretary of Defense for Research and Advanced Technology before the Subcommittee on Research and Development of the Committee on Armed Services of the United States House of Representatives, 98th Congress, second session
[AD-A139402] 14 p2246 N84-24488
Data envelopment analysis and extensions for decision support and management planning
[AD-A139430] 14 p2246 N84-24489
The nature and use of formal control systems for management control and strategy implementation
[AD-A139083] 14 p2247 N84-24493
H. F. Frequency management by frequency sharing as assisted by models updated in real-time
[AD-A139896] 15 p2321 N84-24936
Computer science and technology: Selection of microcomputer systems
[PB84-167725] 15 p2389 N84-25331
Now: An initial approach to collection of major materiel systems actual costs
[AD-A139845] 15 p2416 N84-25505
Report to Congress on the Small Business Program of the Department of Energy
[DE84-009107] 15 p2420 N84-25534
The ESA activities on future launchers
16 p2441 N84-25657
Discourse structures for text generation
[AD-A140278] 16 p2546 N84-26342
Unified database development program
[AD-A140309] 16 p2567 N84-26471
AN/TPN-19 improvements program management plan
[AD-A140728] 17 p2605 N84-26680
The decision for the optimal price in competitive bidding: The case of a Korean construction company
[AD-A140556] 17 p2770 N84-27585
Increasing competition for spares within AFLC (Air Force Logistics Command)
[AD-A140751] 17 p2770 N84-27586
Control systems
[AD-A140901] 17 p2771 N84-27592
Relevant and irrelevant legal structures: Distinguishing private sector from DOD contracting
[AD-P003241] 18 p2903 N84-28408
Behavioral issues in the management of technology
[AD-P003349] 18 p2912 N84-28467
Incentive contracts and cost growth
[AD-A140930] 18 p2943 N84-28663
Studies of US universities' research equipment needs inconclusive
[AD-A141784] 19 p2970 N84-28821
Proposal and development plan for an aircraft systems integration laboratory
[AD-A141827] 19 p2970 N84-28822
Space station 19 p3049 N84-29344
LONEX (Laboratory Office Network Experiment) cost/benefits study, volume 1
[AD-A141396] 19 p3114 N84-29786
LONEX (Laboatory Office Network Experiment) cost/benefits study, volume 2
[AD-A141397] 19 p3114 N84-29787
Program Manager: The Journal of the Defense Systems Management College, volume 13, no. 2, March - April 1984
[AD-A141770] 19 p3114 N84-29789
US Army Research Institute 1983 report
[AD-A141821] 19 p3115 N84-29790
Format requirements for scientific and technical reports prepared by or for the Department of Defense
[AD-A141758] 19 p3116 N84-29799
Guidelines for contingency planning NASA (National Aeronautics and Space Administration) ADP security risk reduction decision studies
[PB84-189636] 20 p3268 N84-30737
Integrated Computer-Aided Manufacturing (ICAM) architecture, part 3. Volume 5: Composite function model of manufacture product (MFG0)
[AD-A142337] 20 p3272 N84-30766
Development of a document preparation staff within an office automation environment
[DE84-008649] 20 p3313 N84-31041
National Aeronautics and Space Administration's first-year implementation of the Federal Managers' Financial Integrity Act
[PB84-188770] 20 p3314 N84-31044
The Program Planning Review (PPR): Milestone or millstone?
[AD-P003493] 21 p3514 N84-32259
Some management initiatives to improve embedded commercial computer and training device life cycle support
[AD-P003494] 21 p3514 N84-32260
Automatic audit information system for software development
[AD-P003499] 21 p3515 N84-32265
Equitable assignment rules
[AD-A142809] 21 p3515 N84-32268
Cost and schedule control systems criteria for contract performance measurement, information pamphlet
[DE84-012576] 21 p3516 N84-32269
Classification management. Journal of the national classification management society, volume 19, 1983
[AD-A143015] 21 p3518 N84-32286
Parts on demand: Evaluation of approaches to achieve flexible manufacturing systems for Navy parts on demand, volume 1
[AD-A143248] 22 p3604 N84-32830
Determination of factors affecting performance and productivity in an engineering/design environment
[AD-A143315] 22 p3669 N84-33252
Matrix management in DoD: An annotated bibliography
[AD-A143316] 22 p3669 N84-33253
Analysis of benefits realized from multiyear contracting for the Black Hawk helicopter
[AD-A143485] 22 p3669 N84-33254
The role of the state library agency in the future: A Delphi study 22 p3669 N84-33258
Effective organizational solutions for implementation of DBMS software packages 22 p3671 N84-33266
Integrated technology wing design study
[NASA-CR-3586] 23 p3693 N84-33402
DTIC 2000: A corporate plan for the future
[AD-A143900] 23 p3835 N84-34327

MANAGEMENT SYSTEMS

NT MANAGEMENT INFORMATION SYSTEMS
Design and development of the multifunction flight control reference system 03 p0316 N84-12065
Design and implementation of a BASIC cross-compiler and virtual memory management system for the TI-59 programmable calculator
[AD-A132172] 04 p0577 N84-13808
Benchmarking unstructured systems
[DE83-011175] 05 p0758 N84-14069
ALDS project: Motivation, statistical database management issues, perspectives, and directions
[DE84-001412] 05 p0760 N84-14083
Navy's advanced aircraft armament system program concept objectives 06 p0770 N84-15045
SAGA: A project to automate the management of software production systems
[NASA-CR-173206] 07 p1054 N84-16823
Management input in quality 08 p1168 N84-17602
Design QA on a small batch project
08 p1168 N84-17603
Design of office information systems
[AD-A136523] 09 p1404 N84-19170
NASA's emerging productivity program
11 p1748 N84-21404
Corporate DP planning: New approaches and new concerns --- data processing (DP)
[PNR-90180] 13 p2064 N84-23386
Important CAD/CAM utilization at MBB
[MBB-Z-13-83-O] 16 p2564 N84-26451
Project management in the 80's
[MBB-UR-631-83-O] 16 p2564 N84-26454
Selections on computer technology in CSSR
16 p2918 N84-28500
VARS: Multilevel automated control system
16 p2918 N84-28507
Weight characteristics of future spacecraft thermal management systems
[AD-A141403] 19 p2982 N84-28895
Configuration management with the Ada (trademark) language
[AD-P003416] 20 p3269 N84-30748
Consideration of MIL-STD-1760, aircraft/store electrical interface standard on stores management system architectures
[AD-P003529] 21 p3331 N84-31133
Automated Construction Management System (ACMS). Volume 1: User's guide
[AD-A143031] 21 p3465 N84-31971
Automated Construction Management System (ACMS). Volume 2: Program documentation
[AD-A143032] 21 p3466 N84-31972
Software progress tracking system
[AD-P003468] 21 p3513 N84-32255

MANDRELS

System for maintaining the alignment of mandrels in filament winding operations
[DE84-014660] 23 p3727 N84-33617

MANEUVERABILITY

Effect of thrust vectoring and wing maneuver devices on transonic aeropropulsive characteristics of a supersonic fighter
[NASA-TP-2119] 01 p0004 N84-10025
Aerodynamic design for improved manueverability by use of three-dimensional transonic theory
[NASA-TP-2262] 09 p1250 N84-18161
Braking-turning-maneuvering stability of heavy transporters 10 p1512 N84-19897
Near-optimal finite solutions to the 3 and 4 step discrete evasion games
[AD-A136811] 10 p1574 N84-20314
Special Course on V/STOL Aerodynamics
[AGARD-R-710] 16 p2436 N84-25625
New world records set by AN-72 transport
18 p2784 N84-27672

MANEUVERABLE REENTRY BODIES
Studies of boundary layer transition and surface roughness effects in hypersonic flow
[AD-A140803] 17 p2601 N84-26670
MANEUVERABLE SPACECRAFT
NT ASTRO VEHICLE
Optimizing parameters and controls for maneuvering flexible structures
[AD-A141726] 23 p3701 N84-33457
MANEUVERS
NT AIRCRAFT MANEUVERS
NT EARTH ORBITAL RENDEZVOUS
NT EVASIVE ACTIONS
NT HOVERING
NT ORBITAL MANEUVERS
NT ORBITAL RENDEZVOUS
NT SIDESLIP
NT SPACECRAFT DOCKING
NT SPACECRAFT MANEUVERS
Helicopter noise survey conducted at Norwood, Massachusetts on April 27, 1983
[AD-A131053] 01 p0140 N84-10922
High altitude maneuver control tests in the NSWC (Naval Surface Weapons Center) hypervelocity wind tunnel
[AD-A136105] 09 p1253 N84-18178
An application of the Navstar global positioning system in navigation track reconstruction for Naval exercises
[AD-A136807] 10 p1425 N84-19321
Minimum time turns with direct sideforce
[AD-A136958] 10 p1429 N84-19342
Braking-turning-maneuvering stability of heavy transporters 10 p1512 N84-19897
Optimal maneuver detection and estimation in multiobject tracking
[AD-P002899] 13 p1981 N84-22858
Flight operation manual for the Mi-8 helicopter
[AD-A143660] 23 p3693 N84-33407
MANGANESE
Updated process flowsheets for manganese nodule processing
[PB83-226340] 01 p0047 N84-10303
Marine manganese accretions: Nodule micronodule comparisons among major ocean basins
02 p0257 N84-11683
Analysis of the world distribution of metal-rich subsea manganese nodules
[USGS-CIRC-866] 03 p0395 N84-12577
Synthesis and characterization of binuclear Schiff base complexes of nickel, copper, and manganese
[AD-A135493] 08 p1132 N84-17360
The evaporation of iron and its alloying elements, copper and manganese, under reduced pressure using the levitation melting technique
[BLL-OA-TRANS-3117-(6196.3)]
09 p1281 N84-18367
Influence of processing on the cryogenic mechanical properties of high strength high manganese stainless steel
[DE84-008242] 20 p3154 N84-30027
MANGANESE ALLOYS
The effects of specimen size, specimen geometry and data analysis procedures on ductile crack growth resistance curves
[AERE-R-10906] 01 p0098 N84-10636
Formation of surface layers during oxidation of a Fe-Mn-Si alloy
[DE83-009495] 03 p0354 N84-12302
A comparison of the irradiated tensile properties of a high-manganese austenitic steel and type 316 stainless steel
[DE84-000260] 04 p0502 N84-13294
Copper-manganese-base silverless brazing systems
[PB83-250100] 04 p0545 N84-13593
Aluminum-manganese plating from a molten salt bath
[AD-A135240] 08 p1131 N84-17356
Mechanical properties of Mn-Al-C system alloys
[BLL-M-35432] 09 p1280 N84-18362
Fatigue crack propagation in Ti-Mn alloys: The role of the Bauschinger effect
[AD-A136036] 09 p1283 N84-18383
Design and characterization of Mn-Al-C alloys for permanent magnet applications
[DE84-004881] 10 p1461 N84-19542
Study of high performance alloy electroforming
[NASA-CR-173828] 20 p3152 N84-30013
Transmutation of manganese: Substituted steels in STARFIRE
[DE84-010402] 20 p3155 N84-30035
Phase transformations in nearly stoichiometric nickel-manganese alloys 21 p3364 N84-31340
Study of high performance alloy electroforming — nickel manganese and nickel cobalt manganese alloys
[NASA-CR-173865] 21 p3366 N84-31350
Characterization of common steels. Report of partial test Number M6-645900, Number 4
21 p3369 N84-31376
Design of an abrasion test under high stress. Application to the characterization of manganese steel quality assurance
[CETIM-12-D-081] 21 p3415 N84-31659
Fundamental alloy studies
[DE84-013941] 22 p3555 N84-32513
MANGANESE COMPOUNDS
NT MANGANESE OXIDES
Performance of alkaline battery cells used in emergency locator transmitters
[NASA-TP-2277] 11 p1646 N84-20759
MANGANESE IONS
Effect of iron on the electron paramagnetic resonance (EPR) spectra of Mn-2+ ions in polycrystalline calcite
15 p2402 N84-25414
MANGANESE OXIDES
Comparison of the calculated properties of high-angle (001) twist boundaries in MnO, FeO, CoO and NiO with MgO
[DE83-015677] 02 p0201 N84-11307
MANIFOLDS
Fuel cell stack with internal manifolds for reactant gases
[DE84-014662] 23 p3743 N84-33729
MANIFOLDS (MATHEMATICS)
NT RIEMANN MANIFOLD
A generalization of Denjoy's theorem on diffeomorphisms of the circle
[AD-A130575] 01 p0130 N84-10848
Solution manifolds and submanifolds of parametrized equations and their discretization errors
[AD-A130186] 01 p0131 N84-10857
On the structure of self-similar fractals
04 p0576 N84-13791
Great sphere fibrations of manifolds
[AD-A132544] 04 p0588 N84-13888
The infinite horizon optimal control problem on manifolds
[MC-BW-181/83] 07 p1058 N84-16851
Periodic solutions of Lagrangian systems on a compact manifold
[AD-A134557] 07 p1063 N84-16897
The manifold of spheroidal galaxies
09 p1409 N84-19208
Cohomology of the 3-differentiable of the Poisson algebra of a symplectic manifold
13 p2032 N84-23175
Estimates of one-dimensional oscillatory integrals
13 p2032 N84-23179
Annals of the Fourier Institute, volume 33, no. 3
[ISSN-0373-0956] 14 p2210 N84-24264
Stability of C* algebras of a foliated manifold
14 p2211 N84-24273
Classification of Nash manifolds
14 p2211 N84-24274
Hopf bifurcation and the beam-plasma instability
[DE84-008243] 15 p2412 N84-25480
Global bifurcation of a logistic delay map
[CWI-AM-R8402] 19 p3092 N84-29634
Lagrangian singularities: Applications
19 p3118 N84-29812
Supersymmetric nonlinear sigma models constrained on a noncompact manifold
[PREPRINT-356] 20 p3283 N84-30843
Non-degeneresscence of some spectral sequences
22 p3634 N84-33027
MANIPULATION
U MANIPULATORS
MANIPULATORS
NT REMOTE MANIPULATOR SYSTEM
Optimal control of robotic manipulators
01 p0127 N84-10833
Self-locking telescoping manipulator arm
[NASA-CASE-MFS-25906-1] 02 p0269 N84-11761
Robotics-related technology in the nuclear industry
[DE83-017131] 06 p0893 N84-15799
Robot manipulator control
[AD-A129365] 06 p0893 N84-15800
Computer control of a seven degree of freedom manipulator arm 06 p0931 N84-16051
Theories of kinematic analysis and synthesis of spatial mechanisms containing lower and higher pairs
[AD-A134519] 07 p1016 N84-16594
Stability enhancement of a flexible robot manipulator
[AD-A134185] 07 p1051 N84-16807
Kinematics and dynamics of multi-rigid-body open-chain systems: Application to robot manipulators
08 p1204 N84-17851
Center of excellence in aerospace manufacturing automation
[AD-A136477] 09 p1249 N84-18155
Electromagnetic design of a remote manipulator arm for space applications 09 p1295 N84-18462
European technology requirements on space automation and teleoperation 09 p1297 N84-18477
Model reference adaptive control of mechanical manipulators 10 p1555 N84-20194
Automatic planning of fine motions: Correctness and completeness
[AD-A137355] 10 p1568 N84-20269
Recursive lagrangian dynamics of flexible manipulator arms via transformation matrices
[AD-A137345] 10 p1574 N84-20316
Kinematic and dynamic analysis of high-speed intermittent-motion mechanisms
[AD-A137903] 11 p1665 N84-20862
Modeling and robust control of a compliant robotic manipulator via the finite element method
11 p1703 N84-21102
Adaptive control strategies for computer-controlled manipulators 13 p2023 N84-23114
Human factors in space telepresence
[NASA-CR-173420] 13 p2023 N84-23119
Industry official on progress in Soviet robotics program
14 p2155 N84-23915
Application of symbolic computation to the analysis of mechanical systems, including robot arms
[AD-P002940] 14 p2197 N84-24180
A passively controlled appendage deployment system for the San Marco D/L spacecraft
15 p2347 N84-25081
CURV 3: Characteristics and mission applications
[AD-A140225] 17 p2629 N84-26819
Precision manipulator heating and cooling apparatus for use in UHV systems with sample transfer capability
[NASA-CASE-LAR-13040-1] 19 p3026 N84-29191
Manipulator having thermally conductive rotary joint for transferring heat from a test specimen
[DE84-010958] 20 p3186 N84-30242
Dual arm master controller concept: Consolidated fuel reprocessing program
[NASA-CR-173843] 20 p3196 N84-30296
Advanced teleoperation in nuclear applications: Consolidated fuel reprocessing program
[DE84-011631] 20 p3197 N84-30303
Automatic camera tracking for remote manipulators
[DE84-011455] 21 p3407 N84-31608
Release mechanism for a cylindrical object recovery device
[AD-D011183] 24 p3909 N84-34762
Cylindrical object recovery device
[AD-D011184] 24 p3909 N84-34763
End-point control of flexible robots
[AD-A144428] 24 p3910 N84-34766
MANITOBA
The Pikwitonei granulite domain: A lower crustal level along the Churchill-Superior boundary in central Manitoba 11 p1680 N84-20967
MANNED ORBITAL SPACE STATIONS
U ORBITAL SPACE STATIONS
MANNED SPACE FLIGHT
NT APOLLO 17 FLIGHT
USSR report: Space, no. 25
[JPRS-84946] 05 p0633 N84-14159
Manned flight chronology 05 p0633 N84-14160
Flight of STS-8 with astronauts Captain Richard H. Truly, Commander Daniel C. Brandenstein, Lieutenant Commander Dale A. Gardner, Lieutenant Colonel Guion S. Bluford, Jr. and William Edgar Thornton, M.D.
[GPO-27-043] 05 p0643 N84-14230
An alternate concept for expanding man's presence in space
[NASA-TM-84617] 06 p0794 N84-15172
USSR report: Space Biology and Aerospace Medicine, Vol. 17, No. 6, November - December 1983 94 p
[JPRS-USB-84-001] 07 p1044 N84-16769
Shielding part of bone marrow as a method of local protection against cosmic radiation
07 p1044 N84-16771
Radiation protection for manned space activities
[NASA-CR-173202] 07 p1047 N84-16791
Remembered images, NASA 1958-1983
[NASA-EP-200] 09 p1260 N84-18224
Research opportunities in muscle atrophy
[NASA-CR-175422] 10 p1546 N84-20135
USSR report: Space Biology and Aerospace Medicine, volume 18, no. 1, January - February 1984
[JPRS-USB-84-002] 12 p1864 N84-22149
Thirteenth Gagarin Conference
12 p1865 N84-22151
Cosmic October 14 p2112 N84-23659
Manned geosynchronous mission requirements and systems analysis study extension
[NASA-CR-173547] 15 p2281 N84-24700
USSR report: Space
[JPRS-USP-84-003] 19 p2970 N84-28823
Manned flight chronology 19 p2970 N84-28824
Medical research program of 'Soyuz T-10' crew
19 p2971 N84-28826
Goals of cosmonaut At'kov's medical studies on 'Salyut-7' 19 p2971 N84-28827

Feoktistov recounts planning for Gagarin spaceflight
19 p2971 N84-28836
Space stations: Living in zero gravity, developmental task for psychologists and space environmental experts
[NASA-TM-77620] 23 p3700 N84-33454
The potential of low dose computed tomography in assessing space flight induced bone loss
23 p3807 N84-34141
Impact of flares on the solar terrestrial environment
23 p3837 N84-34341

MANNED SPACECRAFT
NT ASTRO VEHICLE
NT LONG DURATION EXPOSURE FACILITY
NT ORBITAL SPACE STATIONS
NT SALYUT SPACE STATION
NT SHUTTLE DERIVED VEHICLES
NT SOYUZ SPACECRAFT
NT SPACE OPERATIONS CENTER (NASA)
NT SPACE SHUTTLES
NT SPACE STATIONS
USSR report: Space
[JPRS-USP-84-002] 12 p1774 N84-21586
Satellite services handbook. Interface guidelines
[NASA-CR-171774] 12 p1777 N84-21597
Space station propulsion analysis study
[NASA-TM-83715] 16 p2459 N84-25764
List of recent Soviet space launches
19 p2978 N84-28880
The potential impact of new power system technology on the design of a manned space station
[NASA-TM-83770] 21 p3354 N84-31272

MANPOWER
NT SCIENTISTS
Scientists discuss increased production with fewer workers 01 p0055 N84-10356
Bottom Line Academia Conference — quality management education
[AD-A131043] 01 p0159 N84-11048
A calculator adaptation of the Markov chain model for manpower analysis
[AD-A132990] 05 p0757 N84-14966
Productivity and the forging industry
09 p1293 N84-18448
A review of major issues relating to human-machine integration in the development of military systems
[AD-A136739] 10 p1554 N84-20184
Multiple launch rocket system: A case study of manpower, personnel and training requirements determination
[AD-A137644] 11 p1620 N84-20606
Prerequisites for the establishment of a professional acquisition workforce
[AD-P002783] 13 p2052 N84-23310
Scientology and management of science and technology
[AD-A139084] 14 p2246 N84-24487
Prototype development of an information-sharing and decision support system for the manpower personnel and training community
[AD-P003310] 18 p2909 N84-28451
Evaluation of the HARDMAN comparability methodology for manpower, personnel and training
[NASA-CR-173733] 18 p2915 N84-28485
A system for policy analysis in manpower planning. Part 2: Design of the dialogue component
[AD-B082961] 20 p3313 N84-31043
Reverse engineering of the multiple launch rocket system. Human factors, manpower, personnel, and training in the weapons system acquisition process
[AD-A142849] 21 p3349 N84-31247

MANTLE (EARTH STRUCTURE)
U EARTH MANTLE

MANUAL
Compressed air systems: A guidebook on energy and cost savings
[DE84-006802] 20 p3170 N84-30133

MANUAL CONTROL
NT VISUAL CONTROL
Proceedings of the 18th Annual Conference on Manual Control
[AD-A131256] 01 p0118 N84-10763
A comparison of manual and vocal response modes for the control of aircraft subsystems
[AD-A132048] 03 p0330 N84-12152
The integrated manual and automatic control of complex flight systems
[NASA-CR-173308] 09 p1257 N84-18207
Part-task training of tracking in manual control
[AD-A138346] 12 p1868 N84-22175
Frequency encoded auditory display of the critical tracking task
[NASA-TM-85869] 13 p1931 N84-22558
A device for measurement of control column forces in aircraft
[AD-A140876] 17 p2607 N84-26700
The design of manually operated controls for a six-degree-of-freedom groundborne walking vehicle: Control strategies and stereotypes
[AD-P003273] 18 p2907 N84-28438
Summaries of doctorate theses — man machine systems 20 p3263 N84-30705

MANUALS
NT USER MANUALS (COMPUTER PROGRAMS)
Methodology for integration of HVDC links in large ac systems. Phase 1: Reference manual
[DE83-902302] 01 p0073 N84-10476
Reference manual for the Ada programming language
[AD-A131511] 01 p0123 N84-10800
FORTRAN 8X: A continuing language for numerical software
[DE83-014290] 01 p0124 N84-10809
Praxis language environment: Distribution-package description
[DE83-017548] 03 p0421 N84-12750
Integrated Cuing Requirements (ICR) study: Demonstration data base and users guide
[AD-A131119] 03 p0459 N84-13019
An assessment of selected Army technical manuals
[AD-A132880] 05 p0654 N84-14302
DOE explosives safety manual: Revision 1
[DE84-004295] 11 p1639 N84-20714
Measurement capabilities of the Bendix Metrology Organization
[DE84-005876] 11 p1661 N84-20834
Software quality measurement for distributed systems. Volume 2: Guidebook for software quality measurement
[AD-A137956] 11 p1707 N84-21129
Manual for implementing a Shared Time Engineering Program (STEP) September 1980 through September 1983
[PB84-144260] 12 p1804 N84-21765
Self-teaching guide to Rand's text processor
[RAND/N-2056-RC-REV] 12 p1879 N84-22244
DATMAN FORTRAN user's guide version 3.0
[PB84-149251] 12 p1885 N84-22289
Navy electroplating pollution control technology assessment manual
[AD-A140336] 16 p2477 N84-25879
Quality assurance of test houses for ESA spacecraft and associated equipment
[ESA-PSS-01-203-ISSUE-1] 16 p2500 N84-26042
Guide to graphics at ANL, revised
[DE84-013189] 20 p3274 N84-30786
Linear systems analysis program: Programmer's manual, version 2.2 (VAX/VMS)
[DE84-010953] 20 p3282 N84-30835
High frequency radar software reference manual for product one
[PB84-194885] 22 p3578 N84-32665
Flight systems raster graphics software reference manual
[ARL-SYS-TM-72] 22 p3639 N84-33072
Flight operation manual for the MI-8 helicopter
[AD-A143860] 23 p3693 N84-33407
Radio frequency distribution assembly, operations and maintenance manual
[AD-A143864] 23 p3731 N84-33649
Manual of phosphoric acid fuel cell power plant cost model and computer program
[NASA-CR-174720] 23 p3790 N84-34037
On-line edit users manual
[AD-A144021] 23 p3835 N84-34328
Ada training curriculum. Introduction to software engineering, M102. Teacher's guide: Exercises
[AD-A144237] 24 p3945 N84-34981
Ada (trademark) training curriculum. Software engineering methodologies M201 teacher's workbook
[AD-A144240] 24 p3945 N84-34982

MANUFACTURING
NT COMPUTER AIDED MANUFACTURING
NT LOW GRAVITY MANUFACTURING
NT SPACE MANUFACTURING
Defect occurrences in the manufacture of large CFC structures and work associated with defects, damage and repair of CFC components 01 p0035 N84-10223
Method of manufacturing ceramic shaped articles
[NASA-TM-77242] 01 p0057 N84-10370
CAD/CAM: Influencing the skilled trades
[DE83-015188] 01 p0125 N84-10812
A method for manufacturing a polyether halohydrin polymer and its derivatives
[AD-A130083] 02 p0199 N84-11298
Study to establish cost projections for production of Redox chemicals
[NASA-CR-167861] 02 p0241 N84-11580
Development of recuperator manufacturing techniques, phase 2
[AD-A132448] 04 p0544 N84-13581
Methods for choosing buffer size in tandem production operations
[AD-A132639] 05 p0735 N84-14828
ISIS: A constraint-directed reasoning approach to job shop scheduling
[AD-A133296] 06 p0933 N84-16063
A contribution to the manufacture and characteristics of steel-wire-reinforced aluminum
[NASA-TM-76977] 07 p0974 N84-16310
State-of-the-art survey of existing knowledge for the design of ground-source heat pumps
[DE84-002968] 07 p1003 N84-16504
Precision flexible machining cells within a manufacturing system
[AD-A134864] 08 p1167 N84-17595
Use of small crack data to bring about and quantify improvements to aircraft structural integrity
[AD-A135012] 08 p1170 N84-17623
Further delineation of the utilization of scientific literature by U.S. patents. Appendices A: Distribution of references contained in patents to various sources
[PB84-100742] 08 p1239 N84-18096
Center of excellence in aerospace manufacturing automation
[AD-A136477] 09 p1249 N84-18155
Klystron manufacturing technology program
[AD-A135782] 09 p1309 N84-18555
Applications of composite materials in helicopter construction
[AD-A136678] 10 p1427 N84-19336
Role of technology in promoting industrial competitiveness
[S-REPT-98-565] 10 p1471 N84-19605
Manufacturing Methods and Technology (MM&T) program. 10.6 micrometer carbon dioxide TEA (Transversely Excited Atmospheric) lasers
[AD-A137490] 10 p1500 N84-19805
Vibration challenges in microelectronics manufacturing
10 p1508 N84-19870
Technique for manufacturing nickel electrodes
[NASA-TM-77239] 11 p1632 N84-20671
Zinc-bromine cell design
[DE84-005532] 11 p1647 N84-20773
Electronics/electrical manufacturing industry research needs
[PB84-122969] 11 p1648 N84-20774
Videodisc premastering facility: Technical evaluation
[PB84-135821] 11 p1661 N84-20840
Heavy machine-tool construction for 50 years
[AD-A137599] 11 p1665 N84-20861
Lead making for improved continuous-flow manufacturing systems 11 p1721 N84-21224
Manufacture cables with low losses
11 p1725 N84-21256
Computerised optical fibre characterisation
11 p1727 N84-21266
New method and equipment for high-frequency welding of pipe 12 p1786 N84-21651
Mechanization of assembly and welding operations in manufacture of ship hull structures
12 p1787 N84-21654
Compact gas insulated transformer
[DE84-006426] 12 p1814 N84-21822
Accelerated degradation of silicon metallization systems 12 p1838 N84-21983
Manufacturing cost analysis for photovoltaic concentrator tracking structures
[DE84-006318] 13 p2009 N84-23032
Qualities of SEP ceramic-ceramic Cersaep composites
13 p2038 N84-23225
The Score technique: An analytical approach for assessing the results of manufacturing reviews
[AD-P002838] 13 p2064 N84-23383
Industry urged to increase output of NC machine tool, robotics 14 p2155 N84-23914
Resistance to robots in Soviet metallurgical plants noted 14 p2188 N84-24109
Impact of Latvian Robotics Institute on industry modernization 14 p2188 N84-24110
Ion implanted GaAs IC. Process technology
[AD-A139348] 14 p2242 N84-24481
A double gimballed momentum wheel for precision 3-axis attitude control 15 p2266 N84-24608
Installation of large-size technological equipment (selected pages)
[AD-A139089] 15 p2318 N84-24910
Manufacturing methods and technology engineering for 'Growth of large diameter Nd:YAG laser crystals'
[AD-A139902] 15 p2413 N84-25486
Design and manufacturing practices to minimize corrosion in aircraft 16 p2435 N84-25620
Testing of turboshaft engines
16 p2453 N84-25729
Integrated systems of manufacture (robotics) technology working group report (IDA/OSD Rand M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study)
[AD-A140304] 16 p2477 N84-25878

The cleaning of GUIDE-SPACE D96 tape
[ESA-PSS-01-732-ISSUE-1] 16 p2477 N84-25882
Passive solar manufactured buildings development and analyses 16 p2514 N84-26137
Investment justification of robotic technology in aerospace manufacturing
[AD-A140782] 17 p2598 N84-26651
Technological effects of pressure vessel manufacturing processes on steel properties
[EUR-7614] 17 p2622 N84-26780
Stochastic modeling of EDM with a view to off-line optimization
[PB84-162296] 17 p2639 N84-26885
Siemens plans 256 K memory chip to catch up with Japan 17 p2640 N84-26892
Description of FRG basic research in X-ray lithography 17 p2640 N84-26894
Feedback in robotics for assembly and manufacturing
[PB84-177112] 17 p2675 N84-27044
Increasing competition for spares within AFLC (Air Force Logistics Command)
[AD-A140751] 17 p2770 N84-27588
Manufacture of DPFC-DMS polymer in the SKG range
[NASA-CR-166276] 18 p2817 N84-27888
Computer-automated technological innovation in three manufacturing sectors
[AD-P003309] 18 p2909 N84-28450
High density circuit technology
[NASA-CR-162041] 19 p3012 N84-29091
Effect of manufacturing errors on field quality of the LBL SSC dipoles
[DE84-009224] 19 p3033 N84-29238
Process in manufacturing high efficiency AlGaAs/GaAs solar cells by MO-CVD 19 p3044 N84-29311
Low cost manufacturing of tactical rocket motors 20 p3143 N84-29959
High performance Extrusion Cast Explosives (ECX)
[DE84-008244] 20 p3166 N84-30107
The 8th European Specialist Workshop on Active Microwave Semiconductor Devices 4-6 may 1983
[AD-A142252] 20 p3177 N84-30180
Advance in materials technology: Monitor issue number 1
[PB84-190266] 21 p3369 N84-31377
Broadband cavity-backed slot using printed circuit technology
[AD-P003508] 21 p3384 N84-31476
CSIR activities in South Africa
[ISBN-0-7988-3029-8] 21 p3527 N84-32340
Sintered hard metal alloys and process for their manufacture
[CSIR-TRANS-1748] 22 p3552 N84-32493
Ceramic component manufacturing technology development — silicon carbide tubing for industrial waste heat recovery
[PB84-215276] 22 p3561 N84-32550
Parts on demand: Evaluation of approaches to achieve flexible manufacturing systems for Navy parts on demand, volume 1
[AD-A143248] 22 p3604 N84-32830
Glass heating panels and method for preparing the same from architectural reflective glass
[NASA-CASE-NPO-15753-1] 23 p3723 N84-33589
Stand on space station participation to be surveyed 23 p3732 N84-33658
Process for forming pure silver ohmic contacts to N- and P-type gallium arsenide materials
[DE84-014515] 23 p3831 N84-34298
Notice for airmen, part 2. Index of approved manufacturing operations for aeronautical appliances according to paragraph 18 of test procedures for aeronautical appliances
[NFL-II-38/84] 24 p3847 N84-34394
Silicon carbide material sintered bodies manufacturing
[NASA-TM-77596] 24 p3878 N84-34574
The manufacturing process and the cold deployment test of an extendible nozzle made of C-103 niobium alloy
[AD-A144524] 24 p3884 N84-34608
Swedish firm first in Scandinavia to master GaAs technology 24 p3892 N84-34646
Commentary on Philips R and D strategy, policies, major efforts 24 p3892 N84-34647
Microcomputers of Socialist countries 24 p3944 N84-34969

MANY BODY PROBLEM

Relativistic effects in the binding energies of few-body nuclei
[DE83-014711] 02 p0291 N84-11907
The 3-body forces, relativistic effects, isobars, and pions in nuclear systems
[DE84-000163] 04 p0597 N84-13938
Deuteron forward photodisintegration: Meson currents and relativity
[DE84-001314] 07 p1072 N84-16968
Formulae for configuration averages of products of 1-body and 2-body operators in many-fermion spaces
[DE84-002634] 08 p1221 N84-17971
Methods for describing the coexistence of competing degrees of freedom in a many body system
[CSIR-TWISK-298] 11 p1712 N84-21159
Many-body processes in atomic and molecular physics
[DE84-007338] 15 p2406 N84-25441
Quantum solutions and strange solutions in many-body problems
[AD-A140436] 16 p2565 N84-26459
Introduction to neutron scattering by magnetic excitations
[DE84-008579] 20 p3293 N84-30604
Superconducting and semiconducting properties of electron-beam evaporated materials
[DE84-013470] 23 p3830 N84-34296

MANY PARTICLE THEORY

U MANY BODY PROBLEM

MAPPING

NT CADASTRAL MAPPING
NT COMPUTER AIDED MAPPING
NT ICE MAPPING
NT PHOTOMAPPING
NT PLANETARY MAPPING
NT SOIL MAPPING
NT THEMATIC MAPPING
NT THERMAL MAPPING
Interactive raster data structure study
[AD-A130195] 01 p0100 N84-10649
Mapping, charting and geodesy at the Defense Mapping Agency
[AD-A130344] 01 p0100 N84-10650
Status of auto carto at the Defense Mapping Agency
[AD-A131235] 01 p0101 N84-10653
A conformal mapping technique for nonsymmetric potential flows with separation 02 p0173 N84-11138
Land use inventory of Salt Lake County, Utah from color infrared aerial photography 1982
[E84-10015] 02 p0237 N84-11553
Determining attitude of object from needle map using extended Gaussian image
[AD-A131617] 02 p0240 N84-11571
Computer vision research and its applications to automated cartography
[AD-A131289] 02 p0240 N84-11572
Geologic map and mineral resources summary of the Farner Quadrangle, Tennessee and North Carolina
[DE83-902886] 02 p0240 N84-11576
Vertical mapping of quasistatic and large scale ionospheric electric fields in low latitudes
[INPE-2838-PRE/385] 02 p0247 N84-11618
FEED (Field Exploitation of Elevation Data) evaluation
[AD-A131318] 02 p0277 N84-11812
OI 630.0 nm optical measurements of neutral winds, temperatures and airglow enhancements during the BIME program
[AD-A131695] 03 p0408 N84-12671
PLT: A multipurpose plotting package
[DE83-018261] 03 p0419 N84-12735
NASA Facts: IRAS - Mapping the Infrared Sky
[NASA-FACTS-139] 03 p0461 N84-13036
Comparative assessment of LANDSAT-4 MSS and TM data quality for mapping applications in the southeast
[E84-10040] 04 p0551 N84-13633
Automated standard nautical chart production
[AD-A132249] 04 p0553 N84-13644
Lightning mapping sensor study
[NASA-CR-170906] 04 p0566 N84-13731
Lightning mapper sensor design study
[NASA-CR-170909] 04 p0566 N84-13732
Satellite observations of variations in southern hemisphere snow cover
[PB83-252908] 04 p0568 N84-13745
Comparison of arithmetic requirements for the PFA (Prime Factor Algorithm), WFTA (Winograd Fourier Transform Algorithm), SWIFT, MFFT (Mixed radix fast Fourier transform), FFT (Fast Fourier Transform) and DFT (Discrete Fourier Transform) algorithms
[AD-A133087] 05 p0738 N84-14847
Analysis of data acquired by synthetic aperture radar over Dade County, Florida, and Acadia Parish, Louisiana
[E84-10067] 06 p0865 N84-15636
Classification and area estimation of land covers in Kansas using ground-gathered and LANDSAT digital data
[E84-10068] 06 p0865 N84-15637
The future in terrain elevation data processing at the Defense Mapping Agency
[AD-A133483] 06 p0866 N84-15641
Image understanding research and its application to cartography and computer-based analysis of aerial imagery
[AD-A133495] 06 p0866 N84-15642
Use of LANDSAT MSS (multispectral scanner) digital data in water quality mapping of the Neuse River estuary, North Carolina
[PB83-256750] 06 p0867 N84-15645
Propagation effects in satellite-borne synthetic aperture radars 06 p0867 N84-15650
Characteristics of RF lightning emission at 2 GHz and 250 MHz 06 p0929 N84-16039
Use of radar image texture in geologic mapping 07 p0988 N84-16402
Optimal inference with chaotic dynamics 07 p1060 N84-16675
Triangulations (tilings) and certain block triangular matrices
[DE84-003579] 07 p1064 N84-16902
Reports on cartography and geodesy, series 1: Original reports, number 90
[ISSN-0469-4236] 08 p1173 N84-17643
Remote sensing from space for forestry purposes 08 p1176 N84-17659
The classifications of metamorphic rocks and their applications to air photo interpretation procedures
[AD-A134965] 08 p1178 N84-17675
Evaluation of the FEMA (Federal Emergency Management Agency) model for estimating potential coastal flooding from hurricanes and its application to Lee County, Florida
[PB84-105832] 08 p1192 N84-17769
Hexagonal data base study
[AD-A135532] 08 p1212 N84-17907
Earth science investigations in the United States Antarctic Research Program (USARP)
[PB84-119480] 09 p1336 N84-18722
Simulation of Thematic Mapper data for remote bathymetry
[AD-A136377] 09 p1337 N84-18728
A methodology for digital processing of geographic and cartographic data
[AD-A135835] 09 p1337 N84-18730
DSN microwave antenna holography 10 p1474 N84-19624
Research, investigations and technical developments: National Mapping Program, 1982
[USGS-OPEN-FILE-83-568] 10 p1524 N84-19985
Land use and land cover digital data
[GS-CIRC-895-E] 10 p1525 N84-19987
Installing a copy of the ARPA/DMA image understanding testbed at the US Army engineer topographic laboratories
[AD-A136999] 10 p1525 N84-19991
Implement of the computer program-system MOSS (Map overlay and statistical system) on a VAX-11 series computer under VMS
[AD-A137104] 10 p1525 N84-19992
Supplement to the technical assessment of geoscience-related research for geothermal energy technology
[DE84-002373] 10 p1530 N84-20020
Mapping the acid stimulation in the Beowawe geothermal field using surface electrical potentials
[DE84-004995] 11 p1672 N84-20908
The upper mantle beneath the Cascade Range: A comparison with the Gulf of California
[NASA-CR-175428] 11 p1681 N84-20970
Annual and interannual variability in the Kuroshio Current System
[AD-P002665] 11 p1691 N84-21030
Fourier spectrometry research on Venera-15, -16 12 p1775 N84-21582
Processing system 12 p1835 N84-21958
Stereo reconstruction study
[AD-A138208] 12 p1836 N84-21970
Major salt beds of the Palo Duro and Dalhart Basins, Texas
[DE84-005255] 12 p1837 N84-21973
On the grid generation methods in harmonic mapping on plane and curved surfaces
[NASA-CR-172331] 12 p1893 N84-22327
The operator mapping between relational algebra operators and CODASYL based databases managed by a CODASYL DBMS
[AD-A138117] 12 p1918 N84-22497
Age and evolution of the Yukon-Tanana Terrane, southeastern Yukon Territory 13 p2013 N84-23060
Dual aperture multispectral Schmidt objective
[NASA-CASE-GSC-12756-1] 13 p2042 N84-23248
Reports of planetary geology program, 1983
[NASA-TM-86246] 13 p2073 N84-23431
Volcanic forms in the Kane Patera region, Io 13 p2073 N84-23437
New models for landform evolution on Io 13 p2074 N84-23443
Mapping and geological analysis of Mercury radar data 13 p2089 N84-23532
The Galilean Satellite Geological Mapping Program, 1983 13 p2090 N84-23541

Antarctic mapping and international coordination
14 p2160 N84-23935
Configuration of eastern Gondwanaland
14 p2160 N84-23936
Surveying in Antarctica during the International Geophysical Year 14 p2161 N84-23942
Small-scale magnetic features of the polar regions
14 p2162 N84-23949
Program for mapping Antarctica
14 p2163 N84-23954
Glaciological and geological studies of Antarctica with satellite remote sensing technology
14 p2163 N84-23956
Emerging recognition of the nonfuel mineral resources of Arctic Alaska 14 p2164 N84-23962
Preliminary DSRS design
[AD-A136690] 14 p2169 N84-23995
The geomagnetic elements in Denmark 1926-1980
[ISBN-87-7478-219-3] 14 p2174 N84-24024
Nimbus-Earth radiation budget instrument analysis
[NASA-CR-172318] 14 p2175 N84-24029
Examination of frontal development during a dry forward combustion
[DE84-008304] 15 p2288 N84-24726
Orbital imagery: A cartographic solution
[INPE-2820-PRE/374] 15 p2357 N84-25143
Photogrammetric research at the Royal Institute of Technology, Stockholm, Sweden
15 p2358 N84-25147
Design of interactive graphics for Digital Elevation Model (DEM) sampling 15 p2358 N84-25149
Correlating aerial photographs to LANDSAT Multispectral Sensor (MSS) data to measure ground control points 15 p2358 N84-25150
General triangulation: Incorporating photogrammetric and other observations 15 p2358 N84-25151
GENTRI: A system for simultaneous adjustment of photogrammetric and other observations
15 p2358 N84-25152
Multi-models to increase accuracy
15 p2359 N84-25154
Geometrical testing of X, Y plotters
15 p2359 N84-25155
Contour-to-grid transformation: Development of a method for generation of a sparse grid structure out of terrain elevation contours
[FOA-C-30349-E1] 15 p2359 N84-25156
Diagnostic tools for mapping California EOR processes
[DE84-006232] 15 p2359 N84-25157
Analysis of airborne electromagnetic systems for mapping thickness of sea ice
[AD-A139786] 15 p2373 N84-25235
A computer program for mapping regions in a geographic data base with raster structure
[FOA-C-20529-D8] 15 p2390 N84-25340
On mapping homogeneous graphs on a linear array-processor model
[AD-A139912] 15 p2398 N84-25386
Data base dependent aggregation operators in a map oriented information system
[FOA-C-30347-E1] 15 p2417 N84-25514
Correlation calculation in stereoscopic image pairs for the automatic acquisition of digital land models, orthopictures and height line planes
[SER-C283] 16 p2505 N84-26079
Fisheye objective in the dose range photogrammetry: Theoretical and practical investigations
[SER-C-286] 16 p2505 N84-26080
Integration of LANDSAT land cover data into the Saginaw River basin geographic information system for hydrologic modeling
[AD-A140185] 16 p2510 N84-26106
DEM (digital grid-point elevation models) synthesis from three-dimensional cartographic data
[AD-A140211] 16 p2510 N84-26109
Cartographic feature extraction on ETL's (Engineer Topographic Laboratories') DIAL (Digital Image Analysis Laboratory) system
[AD-A140230] 16 p2511 N84-26112
Development of a digital mapping program at the Defense Mapping Agency
[AD-A140329] 16 p2511 N84-26113
The 3.3 micron mapping of NGC 7027
16 p2571 N84-26499
NGC 2024: Far-Infrared and radio molecular observations
[NASA-TM-85954] 16 p2575 N84-26524
Structural function of lunar relief according to radar data 17 p2630 N84-26823
Determination of propped fracture length by detection of injected magnetic material with surface superconducting magnetometers
[PB84-181320] 17 p2696 N84-27176
Non-Gaussian statistical models of surface wave fields for remote sensing applications
17 p2715 N84-27284
Changes in relative instantaneous spreading rates in the Indian Ocean 18 p2858 N84-28149
Normal magnetic field maps for Caucasus region for epoch 1980 18 p2861 N84-28168
Research on land use cartography by remote sensing
18 p2867 N84-28201
Remote sensing of the Santonge littoral. Processing and interpretation of satellite images
[ISBN-2-85929-016-8] 18 p2867 N84-28202
Neuromagnetic investigation of workload and attention
[AD-A140946] 18 p2900 N84-28394
Reports on cartography and geodesy. Series 2: Translations, number 40
[ISSN-0469-4244] 19 p3039 N84-29279
Reports on cartography and geodesy. Series 1: Original reports, number 91
[ISSN-0469-4236] 19 p3040 N84-29286
Public water supply base map 1 : 200,000
19 p3040 N84-29287
Variation of Arctic cloud cover during summer 1979, part 1
[DE84-008996] 19 p3057 N84-29395
Ground penetrating radar: A review of its application in the mining industry, information circular 1984
[PB84-178292] 20 p3176 N84-30172
Polar glaciology 20 p3218 N84-30445
Automatic symbol generating for topographic maps using raster data processing following the example of the general topographic map 1:200,000 (TUEK 200)
20 p3226 N84-30497
Application of FASTRAK by Skandinavisk Autodigitaliserings AB (SADAB) cartographic service
20 p3226 N84-30498
Cooperative line extraction of aerial photos and maps
20 p3226 N84-30502
An improved accuracy general remapping algorithm
[DE84-004320] 20 p3262 N84-30637
Characterization of micron-sized, optical coating defects by photothermal deflection microscopy
[DE84-011150] 20 p3301 N84-30960
African Doppler Surveys (ADOS)
[AD-A142738] 21 p3430 N84-31764
DMA (Defense Mapping Agency) policy for digital MC and G (Mapping, Charting, and Geodesy) support of advanced systems
[AD-A142746] 21 p3430 N84-31765
DMA (Defense Mapping Agency): The digital revolution
[AD-A142787] 21 p3431 N84-31767
Complete Bouguer gravity anomaly map, Cascade Mountains, Washington
[DE84-012548] 21 p3445 N84-31856
Tropospheric delay effects in radio interferometry
22 p3574 N84-32636
Microwave terrestrial link rain attenuation prediction parameter analysis
[PB84-207984] 22 p3578 N84-32666
Manual and automated line generalization and feature displacement
[AD-A143250] 22 p3614 N84-32900
Harmonic maps from S-2 to IHP-2
22 p3645 N84-33109
Symbolic dynamics and nonlinear semiflows
[AD-A143487] 22 p3646 N84-33117
Digital color space transformations
23 p3779 N84-33960
The derivation of the mapping equations and distortion formulae for the satellite tracking map projections
[AD-A143683] 23 p3784 N84-33998
Genetic study of plasmid integration in yeast chromosomes. Report 1: Effect of integration of episomal plasmid in meiotic crossover in chromosome 3
23 p3806 N84-34131
Research on self-generated stochastic motion
[AD-A144093] 23 p3820 N84-34225
Software support for a video disc based terrain map display system
[AD-A143700] 23 p3834 N84-34324
Modeling two-dimensional freezing using transfinite mappings and a moving-mesh finite element technique
[AD-A144131] 24 p3900 N84-34696
Lightning mapper development: Status and requirements 24 p3927 N84-34854
The 22 GHz continuum and spectral index maps of the galactic center region
[INPE-3275-PRE/599] 24 p3967 N84-35239

MAPS
NT ASTRONOMICAL MAPS
NT METEOROLOGICAL CHARTS
NT RADAR CLUTTER MAPS
NT RADAR MAPS
NT RELIEF MAPS

Wind-speed extremes in the Northern Hemisphere, 30 through 60 km
[AD-A132019] 03 p0410 N84-12682
Evaluation of map symbols for a computer generated topographic display: Transfer of training, symbol confusion, and association value studies
[AD-A133590] 06 p0866 N84-15643
A comparison of map learning methods: Map study, simulated travel and mixed
[AD-A133544] 06 p0892 N84-15794
The circularly polarized sun at 12.6 cm wavelength
[AD-A133668] 06 p0940 N84-16110
An airborne programmable digital to video converter
[AD-A134839] 08 p1104 N84-17181
Application of hierarchical data structures to geographical information systems
[AD-A134999] 08 p1177 N84-17670
The delineation and interpretation of the Earth's gravity field
[NASA-CR-173310] 08 p1185 N84-17722
Advanced edit system
[AD-A134952] 08 p1213 N84-17913
Mapping applications of video disc technology
[AD-A135842] 09 p1300 N84-18498
Constructing a depth map from images
[AD-A135679] 09 p1337 N84-18731
The integrated mission-planning station: Functional requirements, aviator-computer dialogue, and human engineering design criteria
[AD-A136909] 10 p1430 N84-19352
Aeromagnetic map of Yucca Mountain and surrounding regions, southwest Nevada
[DE84-003920] 10 p1526 N84-19995
Geology of Dione 13 p2074 N84-23444
The Dirichlet problem for harmonic maps from the disk into the Euclidean n-sphere
[AD-A139259] 14 p2213 N84-24267
Experiments to correct a digital map data base using scene analysis
[AD-A139447] 14 p2249 N84-24499
Global maps of foF2 derived from observations and theoretical values
[PB84-183906] 15 p2369 N84-25215
An experimental video disc for map and image display
[AD-A140215] 16 p2510 N84-26110
Development of a digital mapping program at the Defense Mapping Agency
[AD-A140329] 16 p2511 N84-26113
Preparation of residual gravity maps for the southern Cascade Mountains, Washington using Fourier analysis
[DE84-012546] 19 p3055 N84-29384
Worldwide energy resource distribution estimates
[DE84-012216] 20 p3248 N84-30612
US average wind power by season
[DE84-012214] 20 p3248 N84-30613
Report on functional design specification for the automated alphanumeric data entry system
[AD-A142516] 20 p3266 N84-30725
Complete Bouguer gravity anomaly map, Cascade Mountains, Washington
[DE84-012548] 21 p3445 N84-31856
US annual average wind power
[DE84-012215] 21 p3448 N84-31877
Manual and automated line generalization and feature displacement
[AD-A143250] 22 p3614 N84-32900
Geology, hydrology, and mineral resources of crystalline rock areas of the northeastern United States
[DE84-013672] 22 p3614 N84-32901
Harmonic maps from S-2 to IHP-2
22 p3645 N84-33109
Crystalline rocks of the Lake Superior region, United States, part 2
[DE84-014802] 23 p3799 N84-34087
Rain rate climatologies over marine regions
[AD-A144066] 23 p3802 N84-34109
Turbulent diffusion for the radial twist map
[IPPJ-685] 23 p3826 N84-34267
Software support for a video disc based terrain map display system
[AD-A143700] 23 p3834 N84-34324
Geocoded data structures and their applications to Earth science investigations
[NASA-TM-86113] 24 p3968 N84-35127
Voyager 1 and 2 atlas of six Saturnian satellites
[NASA-SP-474] 24 p3969 N84-35242

MARAGING STEELS
Torsional and axial hot fatigue characterization of the Z2 NKD 18-8-5 steel (maraging 250): Specimens obtained from a bar. Summary of test number M3 418700
18 p2815 N84-27874

MARANGONI CONVECTION
Thermocapillary flows and their stability: Effects of surface layers and combination
[NASA-CR-170962] 08 p1155 N84-17522

High Marangoni Number convection in a square cavity: Additional results
[AD-A144485] 24 p3901 N84-34701

MARGINS
Enhanced radio frequency carrier margin improvements for an array of receiving systems with unequal predetection signal-to-noise ratios 10 p1475 N84-19637
Structural studies of the northwest Iberian continental margin using long-range side-scan sonar
[IOS-161] 15 p2366 N84-25198

MARIA
NT LUNAR MARIA

MARINE BIOLOGY
The role of microorganisms in marine corrosion processes
[AD-A133113] 06 p0865 N84-15757
A preliminary survey of plankton and periphyton in the Turn Barge Canal and basin area of Kennedy Space Center, Florida 06 p0928 N84-16027
Applications for fisheries — satellite remote sensing 06 p1176 N84-17663
Biochemical indicators of thermal stress: Selected genetic and physiological parameters
[PB84-100122] 08 p1198 N84-17808
Checklist and bibliography of benthic marine macroalgae recorded from northern Australia. 1: Rhodophyta
[MRL-R-912] 11 p1692 N84-21039
Progress report abstracts, Oceanic Biology Program
[AD-A140840] 17 p2737 N84-27390
Canyon and slope processes study. Volume 3: Biological processes
[PB84-169507] 17 p2736 N84-27393
USSR Report: Life sciences biomedical and behavioral sciences
[JPRS-UBB-84-013] 17 p2740 N84-27397
Air pollution effects on aquatic ecosystems: Summary of a symposium
[PB84-186214] 20 p3239 N84-30562
Properties of the deep scattering layer analyzed in terms of bioluminescent behavior of its components
[AD-A143849] 23 p3803 N84-34113

MARINE ENVIRONMENTS
Study of the practicalities of concrete for OTEC (Ocean Thermal Energy Conversion) and other marine applications
[PB83-221867] 01 p0060 N84-10398
A portable, microprocessor controlled, multichannel fluorometer for marine analysis
[AD-A130161] 01 p0083 N84-10542
Further developments of the A. R. A. P. model for the atmospheric marine environment
[AD-A129862] 01 p0107 N84-10696
Atmospheric IR transmission data for a temperate maritime environment
[AD-A131035] 01 p0147 N84-10968
Ecological models of the Mississippi Deltaic Plain Region: Data collection and presentation
[PB83-239012] 02 p0245 N84-11604
Remote sensing applied to marine pollution control 03 p0399 N84-12607
Optical extinction coefficients beneath marine stratus clouds. Comparison of coefficients calculated from observed aerosol spectra with coefficients specified by the Navy aerosol model
[AD-A132011] 03 p0410 N84-12685
Impact of enhanced solar UV-B radiation upon the marine ecosystem
[PB83-247411] 04 p0560 N84-13694
Satellite measurements of marine aerosols 06 p0871 N84-15671
Marine environmental acoustics
[AD-A133245] 06 p0909 N84-15902
An evaluation of marine fog forecast concepts and a preliminary design for a marine obscuration forecast system
[AD-A136379] 09 p1348 N84-18808
Ray modeling methods for range dependent ocean environments
[AD-A137202] 10 p1569 N84-20278
Piezometer probe technology for geotechnical investigations in coastal and deep-ocean environments
[AD-P002669] 11 p1659 N84-20824
The Marine Geology Program of the US Geological Survey
[USGS-CIRC-906] 11 p1677 N84-20944
Vertical sections of oxygen, phosphate, silicate, nitrate and nitrite from the NORPAX Shuttle Experiment
[PB84-138759] 11 p1692 N84-21036
Scientific activity in oceanography, 1979-1982 13 p2018 N84-23084
Tropospheric propagation assessment 15 p2326 N84-24965
A research program in determination of heavy metals in sediments and benthic species in relation to nuclear power plant operation
[NASA-CR-173537] 15 p2366 N84-25195
Geophysical Fluid Dynamics Laboratory activities, FY83, plans FY84
[PB84-148790] 15 p2374 N84-25245
Report to the Congress on ocean pollution
[PB84-166768] 15 p2374 N84-25246
PAME Proceedings, Pattern Analysis in the Marine Environment, An Ocean Science and Technology Workshop
[AD-A140195] 16 p2532 N84-26257
Cluster analysis package for image segmentation
[AD-P003117] 16 p2532 N84-26258
Digitally controlled sonars
[AD-P003121] 16 p2533 N84-26262
Thermally-sprayed active metal coatings for corrosion protection in marine environments
[AD-A140783] 17 p2624 N84-26795
Report of the WMO/CAS expert meeting on atmospheric boundary layer parameterization over the oceans for long range forecasting and climate models
[WCP-74] 18 p2884 N84-28297
Causes and prevention of structural materials failures in naval environments
[AD-A141560] 19 p2994 N84-28972
Study of the fatigue crack propagation characteristics of YB-3 and YB-4 aeronautical organic glass 20 p3160 N84-30069
Flight service evaluation of two aluminum-brazed titanium spoilers
[NASA-CR-172371] 21 p3364 N84-31343
Holocene sediments and evolution of the Indian River (Atlantic coast of Florida) 21 p3426 N84-31730
A pioneer deep ocean mining venture
[PB84-199645] 21 p3433 N84-31780
Topographic effects of the Alaskan stream on shelf currents
[PB84-205137] 22 p3628 N84-32988
Hydrogen chloride measurements with a Differential Absorption and Scattering (DAS) lidar in the marine atmosphere 23 p3779 N84-33965

MARINE GEOLOGY
U HYDROGEOLOGY

MARINE METEOROLOGY
Wind and wave summaries for selected U.S. Coast Guard operating areas
[AD-A130647] 01 p0108 N84-10702
Mariners Weather Log, Spring 1983, volume 27, number 2
[PB83-220491] 01 p0109 N84-10708
Proceedings of the Workshop on Coastal Atmospheric Transport Processes
[DE83-015489] 02 p0244 N84-11601
Data validation and summary for the NRL remote sensing experiment: Phelps Bank, July, 1982. Part 2: Meteorology
[AD-A132105] 04 p0553 N84-13646
Quasi-Lagrangian diagnostics applied to an extratropical explosive cyclogenesis in the North Pacific
[AD-A132213] 04 p0568 N84-13741
Long term upper ocean study (LOTUS) at 34 deg N, 70 deg W: Meteorological sensors, data and heat fluxes for May-October 1982 (LOTUS-3 and LOTUS-4)
[AD-A133863] 05 p0711 N84-14659
An analysis of aircraft data collected in the Alboran Sea during Donde Va?, 6 - 18 October 1982
[AD-A133995] 06 p0883 N84-15746
Navy tactical applications guide. Volume 5, Part 1: Indian Ocean (Red Sea/Persian Gulf) weather analysis and forecast applications
[AD-A134412] 07 p1039 N84-16740
Mariners weather log, volume 27, number 3, summer 1983
[PB84-108356] 08 p1192 N84-17771
Sea salt aerosol, atmospheric radon and meteorological observations in the western South Atlantic Ocean (February 1981)
[AD-A134792] 08 p1195 N84-17794
Potential impact of remote sensing data on sea-state analysis and prediction
[E84-10083] 10 p1520 N84-19954
Mariners Weather Log, volume 27, number 2, Fall 1983
[PB84-133115] 10 p1541 N84-20100
Theoretical and experimental analysis of laser altimeters for barometric measurements over the ocean
[NASA-CR-175443] 11 p1662 N84-20842
Directory of research publications
[AD-A138224] 12 p1860 N84-22119
The effects of meteorology on marine aerosol and optical and in propagation 15 p2323 N84-24950
D-19 evaluating the height of tropospheric conduction of evaporation 15 p2325 N84-24962
Mariners Weather Log, Volume 28, Number 1, January-February-March 1984
[PB84-175710] 17 p2735 N84-27385
Surface and atmospheric boundary layer. Observations from ships, appendix D 18 p2884 N84-28299
The use of observational studies in the design of oceanic atmospheric boundary layer parameterizations in atmospheric circulation models, appendix E 18 p2884 N84-28300
Note on the interaction of the cloud layer and ABL, appendix H 18 p2884 N84-28303
The cloudy marine boundary layer in the meteorological office climate model, appendix I 18 p2885 N84-28304
A synoptic case study analysis of the ocean temperature anomalies in the central Pacific region, 1976 - 1979
[AD-A142548] 20 p3251 N84-30631
METLIB-2: A program library for calculating and plotting atmospheric and oceanic fields
[PB84-205434] 21 p3450 N84-31890
Selected worldwide marine weather broadcasts
[PB84-192855] 21 p3450 N84-31894
Mariners Weather Log, Volume 28, Number 2, April-May-June 1984
[PB84-204569] 22 p3626 N84-32978

MARINE NAVIGATION
U SURFACE NAVIGATION

MARINE PROPULSION
NT UNDERWATER PROPULSION
Industrial and marine engine derivatives: A spin-off from aviation — gas turbine engines
[PNR-90197] 13 p1934 N84-22581
Cooling of high power generators and motors for electric propulsion
[AD-A144049] 23 p3742 N84-33720

MARINE RESOURCES
Applications for fisheries — satellite remote sensing 06 p1176 N84-17663
Symposium Proceedings: A National program for the assessment and development of the mineral resources of the United States Exclusive Economic Zone
[US-CIRC-929] 18 p2866 N84-28192
Chapter 6: The US Geological Survey program and plans in the EEZ 18 p2866 N84-28193
Panel 1B: Assessment and scientific understanding of hard mineral resources in the EEZ 18 p2866 N84-28195
Panel 2B: Engineering-technology assessment, hard minerals 18 p2866 N84-28197

MARINE TECHNOLOGY
Research activities that occurred in the Coordinated Science Laboratory for July 1, 1982 through Jun 30, 1983
[AD-A132132] 04 p0623 N84-14108
Rubber-modified epoxy and glass laminates for application to naval ship structures
[AD-A133305] 06 p0798 N84-15204
Proceedings of the 18th International Conference on Coastal Engineering
[ISBN-0-7988-2553-7] 08 p1194 N84-17783
Comparison of statistical energy analysis and finite element analysis vibration prediction with experimental results 10 p1516 N84-19923
Status report of the programs — of MBB 14 p2105 N84-23626
Draft standard method of test for plane-strain stress-corrosion-cracking resistance of metallic materials in marine environments
[AD-A139752] 15 p2297 N84-24785
Field demonstration of three-phase wanlass motors
[AD-A140065] 15 p2330 N84-24989
Summary of research, academic departments, 1982-1983
[AD-A140059] 15 p2416 N84-25507
VTOL shipboard letdown guidance system analysis
[NASA-CR-166519] 16 p2451 N84-25716
PAME Proceedings, Pattern Analysis in the Marine Environment, An Ocean Science and Technology Workshop
[AD-A140195] 16 p2532 N84-26257
Final network: Objectives, scopes, benefits
[MBB-UR-670-83-O] 16 p2567 N84-26469
Progress report abstracts, Oceanic Biology Program
[AD-A140840] 17 p2737 N84-27390
Corrosion fatigue crack growth rates of weldments in Q1N steel
[AD-A141261] 18 p2814 N84-27864
Symposium Proceedings: A National program for the assessment and development of the mineral resources of the United States Exclusive Economic Zone
[US-CIRC-929] 18 p2866 N84-28192
Panel 2A: Offshore oil and gas technology assessment 18 p2866 N84-28196
Panel 2B: Engineering-technology assessment, hard minerals 18 p2866 N84-28197
Quick Deployment Vehicle (QDV)
[AD-D011060] 22 p3563 N84-32563
Compendium of US incompressible flow facilities
[AD-A143650] 23 p3696 N84-33424

Performance and safety to NAVSEA instruction 9310.1A of lithium-thionyl chloride reserve batteries
23 p3737 N84-33679
Cooling of high power generators and motors for electric propulsion
[AD-A144049] 23 p3742 N84-33720
Exploratory Energy Research Program of the University of Hawaii at Manoa
[DE84-014910] 23 p3784 N84-34000
Rain rate climatologies over marine regions
[AD-A144066] 23 p3802 N84-34109

MARINE TRANSPORTATION
USSR report: Transportation, no. 126
[JPRS-84457] 01 p0001 N84-10001
USSR report: Transportation
[JPRS-UTR-84-004] 14 p2093 N84-23551
Final network: Objectives, scopes, benefits
[MBB-UR-670-83-O] 16 p2587 N84-26469
USSR report: Transportation
[JPRS-UTR-84-027] 24 p3851 N84-34422

MARINER SPACE PROBES
NT MARINER 4 SPACE PROBE
NT MARINER 9 SPACE PROBE
NT MARINER 10 SPACE PROBE
On Mars: Exploration of the red planet, 1958 - 1978
[NASA-SP-4212] 24 p3990 N84-35248
The cart before the horse: Mariner spacecraft and launch vehicles 24 p3990 N84-35250

MARINER 4 SPACE PROBE
The search for Martian life begins, 1959 - 1965
24 p3990 N84-35251

MARINER 9 SPACE PROBE
Safe havens: Selecting landing sites for Viking
24 p3991 N84-35257

MARINER 10 SPACE PROBE
Ode to gravity: Depth/diameter for fresh craters on Mercury 13 p2079 N84-23470

MARITIME COMMUNICATION SATELLITE (ESA)
U MAROTS (ESA)

MARITIME ORBITAL TEST SATELLITE
U MAROTS (ESA)

MARITIME SATELLITES
NT ERS-1 (ESA SATELLITE)
NT MAROTS (ESA)
Report of the NASA workshop on tidal research
[NASA-CR-173204] 07 p1040 N84-16744
Test and evaluation of the Satellite-Aided Maritime Search and Rescue System (SAMSARS). Volume 1: System description and test results
[PB84-184621] 22 p3540 N84-32412
Test and evaluation of the Satellite-Aided Maritime Search and Rescue System (SAMSARS). Volume 2: Hardware circuitry and software programs
[PB84-184639] 22 p3540 N84-32413

MARKERS
Generation of marker lines by means of marker loads — in flight fatigue tests 17 p2680 N84-27074
Marking and lighting of unpaved runways - inservice testing
[AD-A140958] 18 p2797 N84-27751
Turbulent diffusion behind vehicles: Experiments and verification of roadway models
[PB84-194273] 21 p3326 N84-31101
Environmental and water quality operational studies. Fluorometric techniques for tracing reservoir inflows
[AD-A143135] 21 p3436 N84-31801

MARKET RESEARCH
Mobile radio alternative systems study. Volume 1: Traffic model
[NASA-CR-168062] 01 p0061 N84-10402
Mobile radio alternative systems study satellite/terrestrial (hybrid) systems concepts
[NASA-CR-168064] 01 p0061 N84-10404
Aeronautics systems technology studies
[NASA-CR-174572] 02 p0167 N84-11098
Search among queues
[AD-A131639] 03 p0424 N84-12773
Study to forecast and determine characteristics of world satellite communications market
[NASA-CR-168270] 07 p0991 N84-16426
Developmental possibilities and restrictions in air transport — conferences
[ESA-TT-744] 10 p1423 N84-19307
Development possibilities in commercial air transport in the Federal Republic of Germany
10 p1423 N84-19308
Use of microcomputers for inventory management with uncertain demand
[DE84-005179] 11 p1705 N84-21112
Study of a satellite communication system for wideband communications: Executive summary
[ESA-CR(P)-1839] 12 p1809 N84-21795
Large firm efficiency, concentration, and profitability in defense markets
[AD-P002810] 13 p2059 N84-23356
Export trade: Big business for the small entrepreneur
[AD-P002811] 13 p2059 N84-23357
Competitive assessment of the U.S. Civil aircraft industry
[PB84-154913] 15 p2419 N84-25525
Heap pumps marketing problems and the role played by the financial incentives provided by the law 308/82
[CISE-2149] 16 p2487 N84-25950
Report on U.S. domestic and international telecommunications and information markets
[PB84-166362] 17 p2772 N84-27602
A study of space station needs, attributes and architectural options. Midterm briefing, executive summary
[NASA-CR-173446] 18 p2805 N84-27808
Economics of a conceptual 75 MW hot dry rock geothermal electric power station
[DE83-015926] 20 p3236 N84-30539
Computer science and technology: Introduction to software packages
[NBS-SP-500-114] 20 p3268 N84-30740
Emerging battery technologies
[DE84-011193] 21 p3394 N84-31538
OECD study shows Sweden has highest robot-worker ratio 24 p3892 N84-34648

MARKETING
Minister Bugayev promises improved Aeroflot services 01 p0001 N84-10002
The SPOT distribution system
03 p0400 N84-12615
Search among queues
[AD-A131639] 03 p0424 N84-12773
Development, production and marketing of a temporarily protected blackplate (TPP) — cans
[BMFT-FB-T-83-195] 10 p1463 N84-19555
Operation of the Computer Software Management and Information Center (COSMIC)
[NASA-CR-173353] 10 p1558 N84-20207
Development and marketing of a prosthetic urinary control valve system
[NASA-CR-170994] 12 p1867 N84-22168
Fiscal and monetary policy in a general equilibrium model
[AD-A138502] 12 p1920 N84-22510
Research agenda in non-linear decision systems
[PB84-161207] 14 p2187 N84-24102
Decision support for innovation management: Application to the lighting industry
[IIASA-RR-83-29] 15 p2416 N84-25503
Value and competition
[SNIAS-832-501-101] 15 p2416 N84-25504
Passive solar design guidelines and evaluation criteria for builders 16 p2516 N84-26153
Space Station commercial user development
[NASA-CR-173688] 18 p2798 N84-27756
Profit responsibilities in the simulation and training equipment industry
[AD-P003497] 21 p3515 N84-32263
Module utilization committee
[NASA-CR-173896] 22 p3617 N84-32920
Polycrystalline silicon study: Low-cost silicon refining technology prospects and semiconductor-grade polycrystalline silicon availability through 1986
[NASA-CR-173897] 22 p3662 N84-33213
New markets for integrated circuits firms in UK, France and West Germany 24 p3891 N84-34636

MARKING
NT ISOTOPIC LABELING
Report of the 68th National Conference on Weights and Measures 1983
[PB84-110998] 08 p1141 N84-17425
Device for marking and searching for information on a magnetic carrier
[AD-A138393] 14 p2148 N84-23867
Using chemically reactive tracers to determine temperature characteristics of geothermal reservoirs
[DE84-011373] 20 p3242 N84-30580
Front lighted optical tooling method and apparatus
[DE84-011108] 21 p3406 N84-31602
Alternative labelling schemes in electromagnetic topology
[AD-A144300] 24 p3954 N84-35037

MARKOV CHAINS
Mixture models for dependent observations
03 p0393 N84-12562
A calculator adaptation of the Markov chain model for manpower analysis
[AD-A132990] 05 p0757 N84-14966
Recursion formulas and limit theorems for the lifetime distribution of a model fibrous composite
11 p1626 N84-20645
Image compression: A 2-dimensional run-length coding 13 p2030 N84-23162
A note on the overflow process from a finite Markovian queue
[MC-BW-179/83] 13 p2036 N84-23211
Generalized Exponential Markov (GEM) updating procedure for AFOS (Automation of Field Operations and Services)
[PB84-154822] 14 p2180 N84-24060
An easy-to-implement coding scheme for multifrequency PPM 16 p2479 N84-25896
On the range of a regenerative sequence
[AD-A141652] 19 p3086 N84-29586
Backward limits of non-time-homogeneous regenerative processes
[CTH-MATH-1984-09] 19 p3095 N84-29654
Accuracy of one approximate method for computing radiative fluxes in presence of broken clouds
20 p3225 N84-30491
Detection-filter representations for Markov jump diffusions
[NLR-TR-82019-U] 23 p3820 N84-34226

MARKOV PROCESSES
NT MARKOV CHAINS
Optimal control of Markov processes
[AD-A129296] 01 p0136 N84-10894
Using simulation to estimate first passage distributions
[AD-A132328] 04 p0590 N84-13898
Time lapse simulation of interrelated weather conditions
[AD-A133999] 05 p0708 N84-14639
Bayes smoothing algorithms for segmentation of images modelled by Markov random fields
[AD-A133966] 05 p0734 N84-14817
A random walk subject to a randomly changing environment
[AD-A133847] 05 p0739 N84-14854
The Gauss-Tchebyshev inequality for unimodal distributions
[AD-A133760] 05 p0739 N84-14857
Advanced teleprocessing systems
[AD-A133555] 06 p0825 N84-15378
Application of the Gibbs distribution to image segmentation
[AD-A133406] 06 p0901 N84-15850
Methods of the analysis of the disruption of tracking
[AD-A133335] 06 p0918 N84-15963
Sea height information from complex SAR data
[NASA-CR-173199] 07 p1060 N84-16872
An approximation formula for a class of Markov reliability models
[NASA-CR-172290] 07 p1068 N84-16935
Markov decision processes with continuous time parameter
[MATH-CENTRE-TRACTS-164]
08 p1217 N84-17940
Markov processes applied to control, replacement, and signal analysis
[AD-A136508] 09 p1382 N84-19023
Research in continuous speech recognition
[AD-A136990] 10 p1482 N84-19682
The Page Matric: An excellent tool for noise filtering of Markov parameters, order testing and realization
[EUT-82-E-127] 10 p1489 N84-19735
Markovian models of a transactional system supported by checkpointing and recovery strategies. Part 1: A model with state-dependent parameters
[EUT-82-E-128-PT-1] 10 p1566 N84-20260
Markovian models of a transactional system supported by checkpointing and recovery strategies. Part 2: AA model with a specified number of transactions between checkpoints
[EUT-82-E-129-PT-2] 10 p1566 N84-20261
Simulation methodology
[AD-A137127] 10 p1592 N84-20436
Advanced teleprocessing systems
[AD-A137944] 11 p1644 N84-20747
On segmentation of digital images using spatial and contextual information via a 2-dimensional Markov model
[AD-A137942] 11 p1715 N84-21186
Upper and lower bounds for semi-Markov reliability models of reconfigurable systems
[NASA-CR-172340] 12 p1897 N84-22353
A note on the overflow process from a finite Markovian queue
[MC-BW-179/83] 13 p2036 N84-23211
Algorithms of adaptive Markov filtration of noisy speech signals 17 p2630 N84-26822
Trajectories of radio waves in linear layer with isometric inhomogeneities 17 p2631 N84-26833
Efficiency comparison of quasi-optimum direction finding algorithms used for point sources of signals
17 p2633 N84-26844
Wavefront reversal in nonstationary medium with large-scale inhomogeneities description by operator equations 18 p2822 N84-27918
Random rays, geometric acoustics, and the parabolic wave equation
[AD-A141398] 19 p3083 N84-29568

The semi-Markov unreliability range evaluator program
[NASA-TM-86261] 19 p3093 N84-29640
A stochastic approach to global error estimation in the numerical solution of ordinary differential equations
19 p3118 N84-29815
Applications of combinatorics to the busy period in several queueing models
[AD-A142492] 20 p3284 N84-30850
A probabilistic model for predicting the duration of levels of electromagnetic transmission in falling snow: Environmental research papers
[AD-A143318] 22 p3577 N84-32655
Application of a probabilistic tracking filter: A first evaluation with emphasis on air traffic control. Part 1: Evaluation results
[NLR-TR-82068-U-PT-1] 23 p3692 N84-33397
Application of a probabilistic tracking filter: A first evaluation with emphasis on air traffic control. Part 2: Live traffic samples
[NLR-TR-82068-U-PT-2] 23 p3692 N84-33398
Detection-filter representations for Markov jump diffusions
[NLR-TR-82019-U] 23 p3820 N84-34226
Decentralized system theory
[DE84-013858] 23 p3820 N84-34227
An optimum policy for a system of maintenance with control by a repair time distribution
[INPE-3131-PRE/522] 23 p3833 N84-34313
Markov processes applied to control, replacement and signal analysis
[AD-A144225] 24 p3953 N84-35034

MAROTS (ESA)
A review of the in-orbit thermal performance of Maritime Communications Satellite (MCS)-A
[MBB-UR-841-83-O] 16 p2563 N84-26443

MARS
Cosmic ray exposure of SNC meteorites and constraints on their derivation from Mars 11 p1754 N84-21449

MARS (PLANET)
Baroclinic waves in the atmosphere of Mars: Observations, linear instability, and finite-amplitude evolution 04 p0621 N84-14094
Planetary geometry handbook: Mars positional data, 1990 - 2020, volume 3
[NASA-CR-173193] 07 p1091 N84-17097
Abrasion by aeolian particles: Earth and Mars
[NASA-CR-3788] 11 p1628 N84-20654
Impact basins and the volcanics of Mars
11 p1755 N84-21457
Differential degradation of Martian impact basins
13 p2078 N84-23468
The Borealis Basin of Mars 13 p2079 N84-23472
Geomorphic clues to the Martian volatile inventory. 1: Flow ejecta blankets 13 p2079 N84-23474
Distribution and properties of small volcanoes in Acidalia Planitia 13 p2080 N84-23478
Freezing of Martian streams under climatic conditions
13 p2083 N84-23498
Dark streaks on talus slopes, Mars
13 p2084 N84-23499
Quantitative and experimental modelling of sapping networks 13 p2084 N84-23500
Planetary geomorphology field studies: Washington and Alaska 13 p2084 N84-23501
A regression model for the temporal development of soil pipes and associated gullies in the alluvial-fill valley of the Rio Puerco, central New Mexico
13 p2084 N84-23502
Experiments examining the shapes of isolated bars in comparison with those occurring in braided rivers
13 p2084 N84-23503
The erosion of streamlined islands, longitudinal grooves and scour marks: Implications to the origin of the Martian outflow channels 13 p2084 N84-23504
Small-scale polygons on Mars
13 p2085 N84-23505
Permafrost on Mars: distribution, formation, and geological role 13 p2085 N84-23506
Glacial and periglacial landforms in Denmark: Scandinavian analogs for Martian features
13 p2085 N84-23507
Curvilinear ground on Mars: The search for terrestrial analogs 13 p2085 N84-23508
Weathered stony meteorites from Victoria Land, Antarctica, as possible guides to rock weathering on Mars 13 p2085 N84-23509
Salts in the dry valleys of Antarctica
13 p2085 N84-23510
Multiprocess evolution of landforms in the Kharga Region, Egypt: Applications to Mars
13 p2086 N84-23511
Inversion of topography in Martian highlands terrains
13 p2086 N84-23512
The Corfu landslide: Analog to giant landslides on Mars 13 p2086 N84-23513
Scarp development in the Valles Marineris
13 p2086 N84-23515
Elysium Region, Mars: Characterization of tectonic features 13 p2089 N84-23534
Ancient volcano-tectonic structures of the Olympus Mons Region, Mars 13 p2089 N84-23535
Mars apleostratigraphy 13 p2090 N84-23536
Valles Marineris layered deposits: Implications of origin 13 p2090 N84-23537
Compressional features in the Tharsis Region of Mars: Geographic 13 p2090 N84-23538
Compressional features in the Tharsis Region of Mars: Orientations and Timing of Deformation
13 p2090 N84-23539
The geology of Thaumasia-northeast quadrant
15 p2427 N84-25579
The geology of Mare Acidalium quadrangle Mars
15 p2428 N84-25582
The magnetic field of Mars: Implications from gasdynamics modeling 16 p2573 N84-26515
The origin of magnemite on Mars
[NASA-CR-173492] 16 p2579 N84-26543
Geology of the Olympus Mons region of Mars
16 p2580 N84-26547
Viking: The exploration of Mars
[NASA-EP-208] 18 p2953 N84-28715
Interpretation of gravitational anomalies on Mars, Venus and Earth 19 p2975 N84-28859
Excess science accommodation capabilities and excess performance capabilities assessment for Mars Geoscience and Climatology Orbiter: Extended study
[NASA-CR-173765] 19 p2978 N84-28882
Morphologic studies of the Moon and planets
[NASA-CR-173886] 22 p3678 N84-33319
A geographic comparison of selected large-scale planetary surface features
[NASA-TM-86147] 22 p3679 N84-33320
Viking radio science data analysis and synthesis --- rotation of Mars, solar system dynamics, and gravitational laws
[NASA-CR-173966] 23 p3843 N84-34385
On Mars: Exploration of the red planet, 1958 - 1978
[NASA-SP-4212] 24 p3990 N84-35248
Why Mars? 24 p3990 N84-35249
The cart before the horse: Mariner spacecraft and launch vehicles 24 p3990 N84-35250
The search for Martian life begins, 1959 - 1965
24 p3990 N84-35251
Voyager: Perils of advanced planning, 1960 - 1967
24 p3991 N84-35252
Reorganization and creation of Viking
24 p3991 N84-35253
Viking orbiter and its Mariner inheritance
24 p3991 N84-35254
Safe havens: Selecting landing sites for Viking
24 p3991 N84-35257
Site certification and landing 24 p3991 N84-35258
On Mars 24 p3991 N84-35259
Meteorite bombardment and dating of planetary surfaces
[NASA-TM-77558] 24 p3991 N84-35260

MARS ATMOSPHERE
Carbon monoxide in the atmospheres of the terrestrial planets 05 p0764 N84-15011
Post-mission Viking data anaysis
[NASA-CR-173451] 12 p1776 N84-21587
Martian paleoclimate 13 p2072 N84-23427
MM-wavelength measurements of CO in the atmosphere of Mars and SO2 in the atmosphere of Venus
13 p2072 N84-23429
Martian dust storms witnessed by Viking Lander 1
13 p2081 N84-23487
Long range transport of fine grained sediments on Mars: Atmospheric dust loading, as inferred from Viking Lander imaging data 13 p2082 N84-23488
The magnetic field of Mars: Implications from gasdynamics modeling 16 p2573 N84-26515
Unbalanced infrared radiation and natural laser effect in atmospheres of Venus and Mars
19 p2975 N84-28858
On Mars 24 p3991 N84-35259

MARS CRATERS
Impact basins and the volcanics of Mars
11 p1755 N84-21457
Martian crater size distributions and terrain age
13 p2077 N84-23462
The Borealis Basin of Mars 13 p2079 N84-23472
Fluvial erosion of impact craters: Earth and Mars
13 p2083 N84-23494
Inversion of topography in Martian highlands terrains
13 p2086 N84-23512
Rapid extraction of relative topography from Viking orbiter images. 2: Application to irregular topographic features 13 p2087 N84-23523
Mars apleostratigraphy 13 p2090 N84-23536
Advances in planetary geology
[NASA-TM-86247] 15 p2426 N84-25567
Geologic observations of the Martian highland boundary in the Mamers Valles region 15 p2426 N84-25572
Geology of the Olympus Mons region of Mars
16 p2580 N84-26547
Distribution of craters of various age on Martian surface 19 p2976 N84-28862
A geographic comparison of selected large-scale planetary surface features
[NASA-TM-86147] 22 p3679 N84-33320
On Mars 24 p3991 N84-35259
Meteorite bombardment and dating of planetary surfaces
[NASA-TM-77558] 24 p3991 N84-35260

MARS ENVIRONMENT
NT MARS ATMOSPHERE
Post-mission Viking data anaysis
[NASA-CR-173451] 12 p1776 N84-21587
Martian paleoclimate 13 p2072 N84-23427
Freezing of Martian streams under climatic conditions
13 p2083 N84-23498

MARS LANDING
Safe havens: Selecting landing sites for Viking
24 p3991 N84-35257
Site certification and landing 24 p3991 N84-35258

MARS PROBES
NT MARINER 4 SPACE PROBE
NT MARINER 10 SPACE PROBE
NT VIKING LANDER SPACECRAFT
NT VIKING MARS PROGRAM
NT VIKING ORBITER SPACECRAFT
NT VIKING ORBITER 1
NT VIKING SPACECRAFT
Post-mission Viking data anaysis
[NASA-CR-173451] 12 p1776 N84-21587

MARS SURFACE
Erosion and transport of eolian materials on Mars
[NASA-CR-174569] 02 p0308 N84-12019
Geomorphic studies of Mars 03 p0465 N84-13063
Martian surface properties
[NASA-CR-173197] 07 p1091 N84-17091
Significant achievements in the planetary geology program
[NASA-CR-3782] 11 p1758 N84-21474
Post-mission Viking data anaysis
[NASA-CR-173451] 12 p1776 N84-21587
Martian crater size distributions and terrain age
13 p2077 N84-23462
The Borealis Basin of Mars 13 p2079 N84-23472
Volcanism in Elysium Planitia, Mars
13 p2080 N84-23481
Wind streaks on Mars: Comparisons of production models with observations of bright streaks
13 p2081 N84-23486
Martian dust storms witnessed by Viking Lander 1
13 p2081 N84-23487
Long range transport of fine grained sediments on Mars: Atmospheric dust loading, as inferred from Viking Lander imaging data 13 p2082 N84-23488
Dust streaks on Mars: Colors and photometry
13 p2082 N84-23489
A possible source for the Martian circumpolar dune material 13 p2082 N84-23490
Velocities of windblown particles in saltation: Venus, Earth, and Mars 13 p2082 N84-23491
Fluvial drainage systems: Margaritifer Sinus and Agyre (NC, NE) quadrangles, Mars 13 p2083 N84-23497
Freezing of Martian streams under climatic conditions
13 p2083 N84-23498
Dark streaks on talus slopes, Mars
13 p2084 N84-23499
Quantitative and experimental modelling of sapping networks 13 p2084 N84-23500
Planetary geomorphology field studies: Washington and Alaska 13 p2084 N84-23501
A regression model for the temporal development of soil pipes and associated gullies in the alluvial-fill valley of the Rio Puerco, central New Mexico
13 p2084 N84-23502
Experiments examining the shapes of isolated bars in comparison with those occurring in braided rivers
13 p2084 N84-23503
The erosion of streamlined islands, longitudinal grooves and scour marks: Implications to the origin of the Martian outflow channels 13 p2084 N84-23504
Small-scale polygons on Mars
13 p2085 N84-23505
Permafrost on Mars: distribution, formation, and geological role 13 p2085 N84-23506
Glacial and periglacial landforms in Denmark: Scandinavian analogs for Martian features
13 p2085 N84-23507
Weathered stony meteorites from Victoria Land, Antarctica, as possible guides to rock weathering on Mars 13 p2085 N84-23509

Salts in the dry valleys of Antartica
13 p2085 N84-23510
Multiprocess evolution of landforms in the Kharga Region, Egypt: Applications to Mars
13 p2086 N84-23511
Inversion of topography in Martian highlands terrains
13 p2086 N84-23512
The Corfu landslide: Analog to giant landslides on Mars
13 p2086 N84-23513
Planetary geomorphology field studies: Iceland and Antarctica
13 p2086 N84-23514
Scarp development in the Valles Marineris
13 p2086 N84-23515
Geomorphic clues to the Martian volatile inventory: Landslides
13 p2086 N84-23516
A tectonic geomorphological classification of the walls of Valles Marineris
13 p2087 N84-23518
A case for olivine on Mars
13 p2087 N84-23520
Thermal infrared analysis of volcanic surfaces: Mars and Hawaii
13 p2088 N84-23524
The case for aeolian control of meter-scale surface texture on Mars
13 p2088 N84-23528
Is there radar evidence for liquid water on Mars?
13 p2088 N84-23529
Hypsometric studies of Mars.
13 p2089 N84-23530
Ancient volcano-tectonic structures of the Olympus Mons Region, Mars
13 p2089 N84-23535
Mars paleostratigraphy
13 p2090 N84-23536
Valles Marineris layered deposits: Implications of origin
13 p2090 N84-23537
Compressional features in the Tharsis Region of Mars: Geographic
13 p2090 N84-23538
Compressional features in the Tharsis Region of Mars: Orientations and Timing of Deformation
13 p2090 N84-23539
Mars-analog studies in Wright and Victoria Valleys, Antarctica
14 p2163 N84-23951
Analysis of permafrost depths on Mars
15 p2426 N84-25569
Geologic observations of the Martian highland boundary in the Mamers Valles region
15 p2426 N84-25572
The source of Mangalla Vales
15 p2426 N84-25573
The geology of Thaumasia-northeast quadrant
15 p2427 N84-25579
The geology of Mare Acidalium quadrangle Mars
15 p2428 N84-25582
The origin of magnemite on Mars
[NASA-CR-173492] 16 p2579 N84-26543
Geology of the Olympus Mons region of Mars
16 p2580 N84-26547
Viking: The exploration of Mars
[NASA-EP-208] 18 p2953 N84-28715
Distribution of craters of various age on Martian surface
19 p2976 N84-28862
Morphologic studies of the Moon and planets
[NASA-CR-173886] 22 p3678 N84-33319
A geographic comparison of selected large-scale planetary surface features
[NASA-TM-86147] 22 p3679 N84-33320
On Mars
24 p3991 N84-35259
Participation in the Mars data analysis program: Global and regional studies of wind-indicators on the surface of Mars
[NASA-CR-173982] 24 p3992 N84-35261

MARS SURFACE SAMPLES
Magnetic properties of Martian surface material
[NASA-CR-173491] 15 p2425 N84-25566

MARS VOLCANOES
Impact basins and the volcanics of Mars
11 p1755 N84-21457
Volcanism in the Valles Marineris
13 p2080 N84-23480
Volcanism in Elysium Planitia, Mars
13 p2080 N84-23481
The 19 March 1982 eruption and lahar at Mount Saint Helens: Implications for Martian outflow channels?
13 p2083 N84-23495
Ancient volcano-tectonic structures of the Olympus Mons Region, Mars
13 p2089 N84-23535
Compressional features in the Tharsis Region of Mars: Geographic
13 p2090 N84-23538
Compressional features in the Tharsis Region of Mars: Orientations and Timing of Deformation
13 p2090 N84-23539
Viking: The exploration of Mars
[NASA-EP-208] 18 p2953 N84-28715
On Mars
24 p3991 N84-35259

MARSHES
U MARSHLANDS

MARSHLANDS
Evaluation of spatial, radiometric and spectral Thematic Mapper performance for coastal studies
[E84-10093] 10 p1522 N84-19964
Experimental study of the fluxes of reduced sulfur gasses from a salt water marsh
[PB84-159318] 14 p2181 N84-24064
Preliminary guide to the onsite identification and delineation of the wetlands of Alaska
[AD-A142091] 19 p3042 N84-29299
Aboveground biomass estimation in a tidal brackish marsh using simulated Thematic Mapper spectral data
20 p3214 N84-30419

MARTENSITE
Dilatometric investigation of phase-transformation kinetics in HP 9-4-20 steel
[DE84-001180] 04 p0500 N84-13280
The relationship between the martensitic phase transition and the superconducting properties of A15 compounds
[DE83-018186] 04 p0529 N84-13477

MARTENSITIC STAINLESS STEELS
Continuous annealing of a Fe/0.1C/0.45Si/0.1Mo dual-phase steel
[DE83-015984] 01 p0047 N84-10300
Quasi-cleavage and martensite habit plane
[AD-A137378] 10 p1459 N84-19527
Magneto-mechanical effects in 304 stainless steels
[DE84-004343] 10 p1462 N84-19546

MARTENSITIC TRANSFORMATION
On the effect of fine grain size on the M sub s temperature in Fe-27Ni-0.025C alloys
[AD-A134807] 08 p1133 N84-17366
Martensitic transformations, relaxation and acoustic-emission properties of some alloys of the Fe-Ni-Mn system
[BLL-M-35434-(5828.4)] 09 p1281 N84-18383
Pre-transition phenomena in an iron-nickel alloy prior to the Martensite transformation
11 p1632 N84-20666
Interrelationship between temperature intervals of inverse martensite transformation and shape restoration in titanium nickelide-based alloys
12 p1786 N84-21648
Martensite transformation and shape memory in Ti0.5Ni0.5-xPd sub x system alloys
12 p1786 N84-21649
Resistivity and strain behavior during transformation cycling in nickel-titanium
[DE84-006640] 14 p2129 N84-23762
The effect of cold work on martensitic transformations in CU-ZN-AL shape memory alloys
[AD-A139975] 15 p2297 N84-24789
Evolution of the phonon spectrum and the density of states at the Fermi level near the martensitic transformation in NiAl, Ti(NiCo), CuZnAl and InTl alloys
[ESA-TT-767] 16 p2465 N84-25801
A study of the tempering transformation of retained austenite in isothermal quenching structures, bainite tempered embrittlement
20 p3159 N84-30085
Attachment for an X-ray diffractometer for studying transformations in materials
24 p3868 N84-34513

MARTINGALES
Applications of functional analytic and Martingale methods to problems in queueing network theory
[AD-A137748] 11 p1718 N84-21208

MARYLAND
LANDSAT-4 Thematic Mapper scene characteristics for a suburban and regional test site
20 p3216 N84-30429
Long-term salinity, temperature and current measurements in upper Chesapeake Bay
[PB84-180280] 20 p3251 N84-30636
Historical and projected shoreline changes: Ocean City and north Assateague Island, Maryland
[PB84-190206] 22 p3828 N84-32987

MASER OUTPUTS
The characteristics of OH/IR objects, infrared stars with OH maser emission
[IA-PUBL-95] 01 p0164 N84-11078

MASER RESONATORS
U MASERS

MASERS
NT HYDROGEN MASERS
NT INTERSTELLAR MASERS
NT TRAVELING WAVE MASERS
NT WATER MASERS
An EPROM-based function generator
04 p0519 N84-13408
Maser cavity servo-tuning system
[NASA-CASE-NPO-15890-1] 06 p0849 N84-15536
Aperture synthesis observations of star forming regions: Compact H2 regions and masers
06 p0937 N84-16092
Stimulated Cerenkov-Raman scattering
[AD-A136473] 09 p1387 N84-19061
A Cerenkov-Raman maser
[AD-A139275] 14 p2150 N84-23883
Studies of some plasma instabilities in space physics
17 p2766 N84-27562
Search for new water vapor masers in the direction of ROW 19-20, 38 and 48-49
[INPE-3039-TDL/156] 17 p2775 N84-27622
Microwave and theoretical studies for Cosmic Background Explorer satellite
[NASA-CR-175248] 18 p2954 N84-28721
USSR report: Physics and mathematics
[JPRS-UPM-84-001] 20 p3285 N84-30862
Acceleration of ions and electrons by wave-particle interactions
[AD-A142341] 20 p3292 N84-30900
A study of a two-frequency NMR maser
21 p3408 N84-31615
USSR report: Physics and mathematics
[JPRS-UPM-84-005] 21 p3484 N84-32081
Chemical lasers
21 p3486 N84-32093
Theoretical models for the polarization of astronomical masers
21 p3522 N84-32313
Magnetic refrigeration development
22 p3573 N84-32626
A search for 183-GHz emission from water in late-type stars
[NASA-TM-85967] 23 p3838 N84-34348

MASKING
NT TARGET MASKING
Fabrication of structures on semiconductors by X-rays: Comparison and optimization of mask technologies
[SMFT-FB-T-83-071] 02 p0300 N84-11968
Evaluation of a native vegetation masking technique
[E84-10106] 12 p1829 N84-21925
Physiological functioning of the ear and masking
19 p3069 N84-29468
Analysis of LANDSAT-4 TM data for lithologic and image mapping purpose
20 p3209 N84-30390

MASKS
NT OXYGEN MASKS
Objectivization of evaluation of speech intelligibility during flights
02 p0261 N84-11713
Psycho-ergonomic problems presented by the prolonged wearing of gas masks
11 p1698 N84-21073
Programmable masks for optical information processing
12 p1906 N84-22415
A high speed processor for binary images
[AD-A138908] 13 p2025 N84-23125
An evaluation of permanent solder masks for high reliability applications
[AD-A139234] 14 p2134 N84-23787
LSI/VLSI (Large Scale Integration/Very Large Scale Integration) ion implanted GaAs (Gallium Arsenide) IC processing
[AD-A139676] 15 p2328 N84-24979
LSI/VLSI (Large Scale Integration/Very Large Scale Integration) ion implanted GaAs (Gallium Arsenide) IC processing. Appendix A: Feasibility analysis of Gallium-Arsenide mask programmable functions and logic arrays for high performance communications systems
[AD-A139677] 15 p2328 N84-24980
Characterization of silicon-gate CMOS/SOS integrated circuits processed with ion implantation
[NASA-CR-161998] 19 p3011 N84-29067

MASONRY
NT BRICKS
Interface bonding of shotcrete reinforced brick masonry assemblages. Volume 2: Appendices
[PB83-223214] 01 p0059 N84-10383
Reduction of heat insulation upon soaking of the insulation layer — hollow masonry
[SMFT-FB-T-83-193] 07 p1004 N84-16513
Strength of anchor bolts in masonry
[PB84-111160] 09 p1297 N84-18479
Swedish activities in new ceramic materials, processes
14 p2119 N84-23696
Finite element model to compute stresses in composite masonry due to creep, shrinkage and temperature
[PB84-152578] 14 p2159 N84-23933

MASS
NT CENTER OF MASS
NT ELECTRON MASS
NT PARTICLE MASS
NT STELLAR MASS
Development of a calorimeter forimultaneously measuring heat release and mass loss rates
[PB83-222711] 01 p0085 N84-10555
Neutrino-oscillation experiments at Brookhaven National Laboratory
[DE83-018275] 04 p0528 N84-13476
Stability of the low degree 5 minute solar oscillations
[DE84-003786] 08 p1246 N84-18143
Type II successful supernovae, the anatomy of shocks: Neutrino emission and the adiabatic index
[DE84-002858] 11 p1757 N84-21472
Water mass classification in the North Atlantic using IR digital data and Bayesian decision theory
[AD-P009125] 16 p2534 N84-26206

Consistent hydrodynamic mass for parallel prismatic beams in a fluid-filled container
[DE84-010381] 18 p2653 N84-26116
On the two-body problem with variable masses
19 p3117 N84-29808
The 19th Moriond meeting: Summary talk
[DE84-010053] 20 p3319 N84-31072

MASS BALANCE

Dynamic mass balance of PCB (polychlorinated biphenyls) and suspended solids in Saginaw Bay: A case study
[PB83-250308] 04 p0561 N84-13699

MASS DISTRIBUTION

A preliminary analysis of precipitation in southern Nevada
[DE83-016648] 02 p0256 N84-11678
Associations between coronal mass ejections and interplanetary shocks 03 p0474 N84-13121
Integrated analysis and design for multi-level performance criteria 15 p2314 N84-24885
On the two-body problem with variable masses
19 p3117 N84-29808
Anthropometric and mass distribution characteristics of the adult female, revised
[AD-A143096] 21 p3457 N84-31939
Uniform mass distribution properties and body size appropriate for the 50 percentile male aircrewmember, 1980 - 1990
[AD-A142946] 21 p3461 N84-31948

MASS FILTERS

U FLUID FILTERS

MASS FLOW

The performance of small jet noise silencers for industrial applications
[PB83-234047] 02 p0230 N84-11507
Helium-flow measurement using ultrasonic technique
[DE83-017765] 03 p0431 N84-12826
Two-dimensional accretion disk structure and stability
04 p0620 N84-14090
Solar-geophysical data comprehensive reports, no. 466. Data for December 1982 and miscellanea. Explanation of data reports issued as number 462 (supplement), part 2
[PB83-253443] 05 p0765 N84-15018
A report on superfluid helium flow through porous plugs for space science applications 06 p0930 N84-16043
Heat/mass flow enhancement design for a metal hydride assembly, phase 2
[DE84-007182] 13 p1990 N84-22920
Shock waves and mass outflow in the Orion molecular cloud: Observations of far-infrared emission lines of carbon monoxide, hydroxyl and ammonia
13 p2071 N84-23423
The new calibration tank for engine simulators at DFVLR Goettingen 14 p2099 N84-23593
Artificial mass concept and transonic viscous flow equation
[AD-P002946] 14 p2198 N84-24186
Snow storm with strong wind in Antarctica
15 p2353 N84-25118
Nitramine propellant crack tip ignition and crack propagation of a burning sample under rapid pressurization
[AD-A141246] 18 p2811 N84-27848

MASS FLOW RATE

Measure of mass flow rate in gas-solid two phase fluids; application to pneumatic transport
21 p3403 N84-31590

MASS RATIOS

Three-dimensional, periodic halo orbits in the restricted three-body problem 06 p0793 N84-15167

MASS SPECTRA

Increased confidence in spectrum matching by use of a retention time library — compound identification in industrial effluents
[PB83-232090] 06 p0802 N84-15229

MASS SPECTROMETERS

Operation of the Brookhaven MPS Facility
[DE83-015383] 03 p0441 N84-12896
The gaseous and plasma environment around space shuttle
[AD-A133900] 05 p0643 N84-14231
Laboratory automation of a quadrupole mass spectrometer 06 p0932 N84-16053
Helium leak detector improved sensitivity speed choke
[DE84-005160] 10 p1498 N84-19793
The study of a mass spectrometer-beam system for measurements of ozone and other minor constituents of the stratosphere 11 p1677 N84-20942
Analysis of flow dynamics through small diameter gas sampling systems
[NASA-CR-175447] 11 p1728 N84-21276
Crossed molecular beam studies of the reactions of oxygen and fluorine atoms
[AD-A138299] 12 p1792 N84-21688
Chopped molecular beam multiplexing system
[NASA-CASE-LAR-13174-1] 15 p2404 N84-25431
Mass spectrometer for simultaneous detection of ions over wide range of mass 15 p2430 N84-25592
Ion mass spectrometer
[NASA-CASE-NPO-15423-1] 18 p2838 N84-28016
Mass spectrometers for studying the ionic and neutral composition of the upper layers of the atmosphere
[AD-A141011] 18 p2879 N84-28282
Application of the direct simulation Monte Carlo method to mass spectrometer flow
[AD-A142326] 19 p3094 N84-29647
Improved gaseous leak detector
[DE84-011295] 20 p3190 N84-30265
Analyzer for determining helium-4 in the part-per-billion range
[PB84-189554] 20 p3191 N84-30272
Field ion microscopy and spectroscopy of hydrogen in metals
[DE84-012972] 21 p3366 N84-31366
Plasma discharge elemental detector for a mass spectrometer
[DE84-011078] 21 p3406 N84-31604
Molecular beam mass spectrometer sampling of flash ignited combustion
[DE84-006771] 22 p3548 N84-32459
Viking lander: Creating the science teams
24 p3991 N84-35255

MASS SPECTROMETRY

U MASS SPECTROSCOPY

MASS SPECTROSCOPY

Search for doubly-charged negative ions via accelerator mass spectrometry
[DE83-014321] 01 p0038 N84-10243
Optical emission and mass spectrometric studies of plasma deposition
[DE83-016700] 02 p0191 N84-11243
Mass spectrometric analysis of silicon for solar cells
[BMFT-FB-T-83-134] 02 p0192 N84-11244
Dopants profiling techniques in semiconductor technology
[BMFT-FB-T-83-126] 02 p0300 N84-11972
High-sensitivity mass spectrometry with a tandem accelerator
[DE83-017914] 03 p0350 N84-12274
Laser physics and laser spectroscopy
[AD-A131720] 03 p0379 N84-12470
Selective laser ionization for mass-spectral isotopic analysis
[DE83-017303] 03 p0381 N84-12483
Evaluation of non-intrusive flow measurement techniques for a re-entry flight experiment
[NASA-CR-172142] 04 p0489 N84-13212
Characterization of high-temperature vapor-phase species and vapor-solid interactions of import to combustion and gasification processes in the energy technologies
[DE83-015166] 04 p0494 N84-13242
Point-by-Point matrix effect calibration for the quantitative analysis of layered semiconductors by secondary ion mass spectrometry
[AD-A134099] 05 p0752 N84-14933
Polymer characterization by electrohydrodynamic ionization mass spectrometry: Probing composition and chemistry of mixtures in solution
06 p0809 N84-15264
Secondary ion emission from adsorbate layers on polycrystalline Ni 06 p0815 N84-15306
Experimental studies of secondary ion emission from well-characterized surfaces
[AD-A133186] 06 p0914 N84-15943
Techniques for avoiding discrimination errors in the dynamic sampling of condensable vapors
[NASA-TM-85886] 07 p1007 N84-16527
Quantitative Secondary Ion Mass Spectroscopy (SIMS)
[AD-A134195] 08 p1125 N84-17315
Mass spectrometric decomposition studies on several azido and nitrato polymers, thermal plasticizers and novel nitramines
[AD-A134636] 08 p1137 N84-17398
A new model of the geomagnetic variation in the upper atmosphere
[AD-A135210] 08 p1187 N84-17733
Mass spectrometry detection of neutral dissociative fragments
[AD-A135847] 09 p1279 N84-18351
Glow discharge as an atomization and ionization device
[DE84-005253] 11 p1629 N84-20662
Ion microprobe zircon geochronology of the Ulvak Gneisses: Implications for the evolution of early terrestrial crust in the North Atlantic Craton
11 p1678 N84-20951
Chemical ionization mass spectrometry: New methodology
[AD-A138037] 12 p1791 N84-21678
Laser detection of chemical agents
[AD-A138122] 12 p1820 N84-21865
Electrical, luminescence and SIMS (Secondary ion mass spectroscopy) characterization of carbon implanted vapor phase epitaxial gallium arsenide
[AD-A138094] 12 p1913 N84-22464
Mass spectroscopic investigations of the reactions of O2 (1 deltag) with furan, 2-methylfuran, and 2,5-dimethylfuran in the gas phase
[MPIS-7/1983] 13 p1958 N84-22731
Current trends in atomic spectroscopy
[PB84-162957] 13 p1959 N84-22732
Application of a spray deposition method for reversed phase liquid chromatography-mass spectrometry
[PB84-159029] 14 p2124 N84-23730
Compliance monitoring of purgeable organics with mass spectrometry
[PB84-157916] 14 p2124 N84-23733
Chemical and isotopic measurements of micrometeoroids by secondary ion mass spectrometry (A0187-2) 15 p2276 N84-24670
Supercritical fluid chromatography/supersonic jet spectroscopy
[DE84-007364] 15 p2287 N84-24724
Supercritical fluid methods in analytical chemistry
[DE84-008289] 15 p2288 N84-24728
Protocol for the collection and analysis of volatile POHCs (Principal Organic Hazardous Constituents) using VOST (Volatile Organic Sampling Train)
[PB84-170042] 15 p2338 N84-25035
Oxide bond energies for the calibration of matrix effects in secondary ion mass spectrometry
[AD-A139633] 15 p2413 N84-25483
Nonaerospace uses of JPL technology: A report on technology transfer
[NASA-CR-172804] 15 p2429 N84-25588
Development and application of SIMS (Secondary Ion Mass Spectrometry) characterization techniques for the study of impurities and impurity motion in (HgCd)Te and CdTe
[AD-A140712] 17 p2619 N84-26759
GC and GC/MS (Gas Chromatography/Mass Spectrometry) analysis protocols
[AD-A141017] 18 p2811 N84-27843
Application of the direct simulation Monte Carlo method to mass spectrometer flow
[AD-A142326] 19 p3094 N84-29647
Pulsed-laser atom-probe studies of surface chemical reactions
[DE84-012811] 20 p3151 N84-30007
Supercritical and chromotography/supersonic jet spectroscopy
[DE84-012124] 21 p3360 N84-31312
Isotopically selective counting of noble gas atoms, using resonance ionization spectroscopy
[DE84-011638] 21 p3361 N84-31320
Kinetics and mechanisms of thermolytic interconversions of boron hydrides
[AD-A143525] 22 p3547 N84-32455
Basic problems in InP technology
[AD-A143456] 22 p3663 N84-33222
Multiphoton ionization mass and photoelectron spectroscopy
[AD-A143823] 23 p3714 N84-33542
Study of outgassing and decomposition of Space Shuttle heat protection tiles, fillers and adhesive
[NASA-CR-173974] 24 p3860 N84-34485

MASS TRANSFER

Gas-transfer analysis. Section B: Real gas results via the vanderWaals equation of state and virial extension of its limiting Abel-Noble form
[DE83-013281] 01 p0081 N84-10527
Higher order numerical simulations of the Knudsen layer
[AD-A131538] 02 p0190 N84-11234
SAGUARO: A finite-element computer program for partially saturated porous flow problems
[DE83-015603] 02 p0219 N84-11438
Simultaneous heat and mass transfer in absorption of gases in turbulent liquid films
[DE83-016394] 02 p0220 N84-11445
Membranes and separators for flowing-electrolyte batteries: A review
[DE83-016246] 02 p0242 N84-11586
The phenomenology of deep-inelastic processes
[DE83-016622] 02 p0292 N84-11913
New statistical and non-statistical effects in deep inelastic heavy-ion collisions
[DE83-015732] 03 p0439 N84-12885
Development of multicomponent transport theory and transport data for membranes in concentrated electrolytes
[DE84-001846] 04 p0495 N84-13249

Mass transfer behavior of a modified austenitic stainless steel in lithium
[DE84-000338] 04 p0502 N84-13293
Studies of cataclysmic variables
04 p0619 N84-14084
Mass transfer at gas-evolving surfaces in electrolysis
[DE84-002567] 05 p0651 N84-14282
Heat and mass transfer during the growth and dissociation of gas hydrates in porous media
[PB83-255414] 05 p0682 N84-14482
Comparisons between observational color-magnitude diagrams and synthetic cluster diagrams for young star clusters in the Magellanic Clouds
[DE84-001870] 07 p1089 N84-17085
Mass and momentum turbulent transport experiments with confined swirling coaxial jets
[NASA-CR-168252] 08 p1156 N84-17530
Mass transfer during drop formation in the presence of interfacial turbulence in the liquid-liquid systems
[BLL-DOUNREAY-TR-923-(9091.9F)]
09 p1311 N84-18568
Engineering correlations of variable-property effects on laminar forced convection mass transfer for dilute vapor species and small particles in air
[NASA-CR-168322] 09 p1313 N84-18578
Comparisons of rational engineering correlations of thermophoretically-augmented particle mass transfer with STAN5-predictions for developing boundary layers
[NASA-CR-168221] 10 p1471 N84-19606
Experimental and theoretical deposition rates from salt-seeded combustion gases of a Mach 0.3 burner rig
[NASA-TP-2225] 10 p1490 N84-19741
A quasi-lagrangian diagnostics investigation of rapid cyclogenesis in a polar air stream
[AD-A136844] 10 p1540 N84-20091
Mass and momentum transport experiments with swirling flow 11 p1610 N84-20541
Laminar condensation heat and mass transfer to a drop moving at intermediate or high Reynolds number
11 p1651 N84-20777
Air/molten salt direct-contact heat-transfer experiment and economic analysis
[DE84-000080] 11 p1675 N84-20928
The west spitsbergen current: Transport, forcing, and variability
[AD-A137532] 11 p1691 N84-21032
Effect of concentrated energy streams on materials: Problems and prospects 12 p1784 N84-21638
Determination of the effect of composition, structure and electrochemical mass transport properties on adhesion and corrosion inhibition of paint films
[AD-A138487] 12 p1801 N84-21746
A theoretical analysis of the influence of crack dimensions and geometry on mass transport in corrosion fatigue cracks
[NPL-DMA(A)-69] 12 p1825 N84-21897
A novel X-ray backlighting method for Rayleigh-Taylor instability measurements on ablatively driven targets
[AD-A138644] 13 p1993 N84-22937
Modeling of zero gravity venting
[NASA-CR-173503] 14 p2145 N84-23854
Current velocity profiles in the Straits of Florida from the Pegagus current profiler: Subtropical Atlantic Climate Study 1982
[PB84-154335] 14 p2183 N84-24084
Solar-Geophysical Data number 471, November 1983. Part 2: Comprehensive reports. Data for May 1983 and miscellanea
[PB84-157007] 14 p2252 N84-24524
Mass transfer and thermodynamic studies of evaporative freezing of water
[PB84-153501] 17 p2620 N84-26789
Utilization of selective mass transfer for increasing performance capability of hinges subject to heavy loads
17 p2641 N84-26898
Dependence of realizability of selective mass transfer during friction of aluminum bronzes against steel on composition of lubricating fluid 17 p2641 N84-26901
Dependence of realizability of selective mass transfer during friction of tin bronzes against steel in hydraulic system mechanisms on concentration of alloying elements 17 p2642 N84-26902
Estimation of wear rate during selective mass transfer
17 p2642 N84-26903
Zero wear (selective mass transfer): New step toward higher wear resistance of machine parts
17 p2642 N84-26904
Fluctuation of velocity distribution under influence of suspended particles on turbulence in bottom current
17 p2699 N84-27191
Use of the Burton-Prim-Slichter equation at high growth rates 18 p2936 N84-28622
On dynamical formulation of a tethered satellite system with mass transport
[AD-A142312] 19 p2960 N84-28888
Open cycle lithium chloride cooling system
[DE84-005831] 20 p3184 N84-30234
Hydrogen transport, mixing, and combustion studies
[DE84-012455] 21 p3360 N84-31317
Perspective of the corrosive behavior of lithium and sodium
[DE84-011635] 21 p3367 N84-31362
CALTECH-DOE program on numerical analysis, computing and fundamental studies of motion, energy and mass transfer in fluids
[DE84-006935] 21 p3401 N84-31572
Mass transfer from a circular cylinder: Effects of flow unsteadiness and slight nonuniformities
[NASA-CR-174759] 22 p3593 N84-32751
Dynamics of heat, mass and momentum transfer in an inductively coupled plasma
[DE84-013499] 22 p3660 N84-33200
Heat transfer from a circular cylinder due to a slot jet impingement 23 p3746 N84-33747
Dynamics of heat, mass and momentum transfer in an inductively coupled plasma
[DE84-014121] 23 p3828 N84-34282

MASSACHUSETTS

Data validation and summary for the NRL remote sensing experiment. Phelps Bank, July 1982. Part 1: Hydrography
[AD-A132063] 05 p0697 N84-14575
Stratigraphic, geochemical, and petrologic studies of the Ammonoosuc volcanics, northcentral Massachusetts and southwestern New Hampshire 13 p2013 N84-23059
Water resources data for Massachusetts and Rhode Island, water year 1982
[PB84-180009] 20 p3229 N84-30521

MASSIFS

Utilization of digital LANDSAT imagery for the study of granitoid bodies in Rondonia: Case example of the Pedra Branca massif
[E84-10120] 14 p2167 N84-23979

MATCHED FILTERS

A matched filter doppler processor for airborne radar
[AD-A130653] 01 p0065 N84-10425
Adaptive signal detection for the optimal communications receiver
[AD-A133498] 06 p0824 N84-15374
Simple MTI using synthetic aperture radar — moving target imaging (MTI) 23 p3765 N84-33868

MATCHING

A fast heuristic based on spacefilling curves for minimum-weight matching in the plane
[AD-A129857] 01 p0129 N84-10846
Image matching using generalized Hough transforms
03 p0394 N84-12569
Analysis of subpixel registration accuracy
03 p0394 N84-12570
An improved version of the chamfer matching algorithm — for image processing
[FOA-C-30344-E1] 10 p1572 N84-20303
An extension of matching theory
[AD-A137605] 11 p1706 N84-21120
RFQ radial matching sections and fringe fields
[DE84-011408] 20 p3295 N84-30920
Broadband microstrip matching techniques
[AD-P003506] 21 p3384 N84-31474

MATERIAL ABSORPTION

Problems encountered in connection with the removal of small concentrations of noxious gases by the use of liquid absorbents
[BLL-OA-TRANS-3182-(6196.3)]
09 p1277 N84-18337
Tricresyl phosphate retention by bearing retainer and reservoir materials
[AD-A143842] 23 p3724 N84-33598
Liquid suspensions of reversible metal hybrides
[DE84-014358] 24 p3881 N84-34586

MATERIAL BALANCE

NT WATER BALANCE

MATERIAL REMOVAL (MACHINING)

U MACHINING

MATERIALS

The future of materials
[REPT-2/1982] 02 p0205 N84-11340
Photovoltaic-cell-reseach priorities
[DE84-000066] 04 p0559 N84-13683
Electronics seminar contributions enumerated
18 p2918 N84-28506
Investigation of role of subsurface zones in wear of materials
[DE84-012752] 21 p3368 N84-31365
Crack problems for bonded nonhomogeneous materials under antiplane shear loading
[NASA-CR-173892] 22 p3609 N84-32863

MATERIALS HANDLING

NT PROPELLANT TRANSFER
NT REMOTE HANDLING

Scientist discusses problems in introducing new technology 01 p0055 N84-10357
Innovative industrial-materials processes — potential for energy conservation
[DE83-016784] 03 p0405 N84-12649
PATRAM '83: 7th International Symposium on Packaging and Transportation of Radioactive Materials, summaries
[DE83-012390] 03 p0439 N84-12881
Automatic sprinklers 04 p0510 N84-13348
Hydraulic hoisting and backfilling
[CSIR-ME-452] 04 p0532 N84-13498
Introduction to flexible manufacturing systems: Their applications, classification, and opportunities
[DE83-017373] 04 p0586 N84-13868
Laboratory robotics at the Savannah River Laboratory
[DE84-001760] 06 p0894 N84-15810
Automated storage and retrieval systems--a consolidation of guidance for project management and implementation
[AD-A135571] 09 p1404 N84-19175
Redesign of cargo mobility containers
[AD-A137396] 10 p1424 N84-19312
DOE explosives safety manual: Revision 1
[DE84-004295] 11 p1639 N84-20714
Test and evaluation of radioactively contaminated transducers and transmitters
[AD-P002676] 11 p1657 N84-20813
Robotics at Savannah River
[DE84-003482] 11 p1712 N84-21158
Shutter Interaction Study
[NASA-CR-173402] 12 p1777 N84-21595
Characterization and measurement of polymer wear
[NASA-TM-83828] 12 p1800 N84-21739
Priorities for detailed quality assessments of the National Defense Stockpile nonfuel materials
[NMAB-403] 13 p2006 N84-23011
Material handling: A target for productivity improvement
[AD-P002829] 13 p2062 N84-23374
High rate straining and mechanical properties of materials
[QUEL-1502/83] 15 p2350 N84-25106
Detonation-and-flame arresters for gasoline-vapor recovery systems 15 p2431 N84-25600
The particle and ultraviolet (UV) radiation testing of space materials
[ESA-PSS-01-706-ISSUE-1] 16 p2555 N84-26393
Automation of a stamping press using sequential hydraulic manipulators
[CETIM-1-4N-090] 21 p3376 N84-31422
Adjustable self-releasing hook
[AD-D011062] 22 p3604 N84-32834
Conceptual design of a monitoring system for the Charters of Freedom
[NASA-CR-173909] 22 p3673 N84-33285
Coatings for fuel economy or materials substitution
23 p3704 N84-33477

MATERIALS RECOVERY

NT NUCLEAR FUEL REPROCESSING
NT WATER RECLAMATION

Updated process flowsheets for manganese nodule processing
[PB83-226340] 01 p0047 N84-10303
Recycling of noble metals in connection with electrochemical processes
[BMFT-FB-T-83-140] 02 p0192 N84-11245
Advanced technologies for the recovery, disposal, and reuse of carbon dioxide for atmospheric control
[DE83-016371] 03 p0347 N84-12256
Inventory of federal materials research and technology, fiscal year 1982
[PB83-256610] 05 p0758 N84-14970
New process for recycling of rhodium and iridium from old catalysts
[BMFT-FB-T-83-179] 08 p1126 N84-17321
Pilot system for the purification of rinse water and for the recuperation of metals in electroplating companies. Pilot system metal recovery from waste water (RMA)
[BMFT-FB-T-83-208] 08 p1126 N84-17323
Coupled-transport membranes for metal separations, phase 5
[PB84-127034] 09 p1286 N84-18396
Mechanically working fully-automatic plant for the regeneration of used aluminum cap screws for bottles
[BMFT-FB-T-83-215] 10 p1472 N84-19615
Study of the recovery of valuable metal starting materials from steelworks slag
[BMFT-FB-T-83-183] 10 p1532 N84-20034
Obtaining titanium carbide powder from titanium shavings 12 p1785 N84-21645
The quick and complete recovery of the precious metals of low-grade sweeps and scrap
[BMFT-FB-T-84-003] 15 p2299 N84-24801
Metallurgy: Development of material recovery
16 p2465 N84-25795
Detinning of tin plate scrap
[BMFT-FB-T-84-045] 16 p2466 N84-25805

Evaluation of process systems for effective management of aluminum finishing wastewaters and sludges
[PB84-170661] 16 p2520 N84-26178
The Navy program to develop replacements for critical and strategic materials 23 p3704 N84-33478
Ceramics as substitutes for scarce metals 23 p3704 N84-33479
New developments in materials recycling by the US Bureau of Mines 23 p3704 N84-33480
Trace elements in superalloys and the implications for recycling 23 p3705 N84-33484
Liquid suspensions of reversible metal hybrides
[DE84-014358] 24 p3861 N84-34586

MATERIALS SCIENCE
The future of materials
[REPT-2/1982] 02 p0205 N84-11340
NBS (National Bureau of Standards): Materials measurements — space processing experiments
[NASA-CR-173162] 08 p1136 N84-17384
Concept study of an automatic ellipsoidal mirror furnace facility, prephase A. Volume 1: Executive summary
[ERC-RP-200-DS-009-VOL-1] 08 p1141 N84-17423
Concept study of an automatic ellipsoidal mirror furnace facility, prephase A. Volume 2: Technical descriptions
[ERC-RP-200-DS-009-VOL-2] 08 p1141 N84-17424
Critical and strategic materials: Proceedings of the Laboratory Study Group Meeting
[CONF-830474] 12 p1783 N84-21631
Validated Engineering Data Index, 1983 - 1984 12 p1804 N84-21758
Optical Information Processing for Aerospace Applications 2
[NASA-CP-2302] 12 p1904 N84-22402
Computational modeling and mathematics applied to the physical sciences
[DE84-008252] 14 p2214 N84-24301
Tribology in the 80's. Volume 2: Sessions 5 - 8
[NASA-CP-2300-VOL-2] 15 p2340 N84-25047
The listing and approval procedure for materials and processes
[ESA-PSS-01-716-ISSUE-1] 16 p2500 N84-26046
Technical and scientific publication 1983: Research and development 16 p2561 N84-26430
Materials sciences programs, fiscal year 1983
[DOE/ER-0143/1] 19 p2983 N84-28905
The use of space laboratories for materials investigations, process engineering, and scientific purposes 20 p3133 N84-29895
Rigid closed-cell polyimide foams for aircraft applications and foam-in-place technology
[NASA-CR-171805] 22 p3559 N84-32535

MATERIALS TESTING REACTORS
U NUCLEAR RESEARCH AND TEST REACTORS

MATERIALS TESTS
Metallurgical and mechanical tests of materials
[AD-A136347] 09 p1327 N84-18666
Characterization and measurement of polymer wear
[NASA-TM-83628] 12 p1800 N84-21739
Materials investigations — fracture mechanics 14 p2125 N84-23737
A thermal vacuum issue for the screening of space materials
[ESA-PSS-01-702-ISSUE-1] 16 p2500 N84-26043
The control of limited life materials
[ESA-PSS-01-722-ISSUE-1] 16 p2500 N84-26047

MATHEMATICAL ANALYSIS
U APPLICATIONS OF MATHEMATICS

MATHEMATICAL LOGIC
NT ALGORITHMS
NT AXIOMS
NT BOOLEAN ALGEBRA
NT BOOLEAN FUNCTIONS
NT EQUIVALENCE
NT FORMULAS (MATHEMATICS)
NT LATTICES (MATHEMATICS)
NT PARSING ALGORITHMS
NT SET THEORY
NT SIMPLEX METHOD
NT THRESHOLD LOGIC
Proof-checking, theorem proving and program verification
[AD-A130638] 01 p0123 N84-10799
Verification of concurrent programs: A temporal proof system
[AD-A131501] 01 p0123 N84-10801
Vectorizing and machine-spanning techniques
[DE84-000469] 04 p0578 N84-13810
Relational programming
[AD-A133643] 05 p0728 N84-14779
A computer science version of Goedel's theorem
[AD-A132903] 05 p0730 N84-14790
Some remarks on the role of logic in knowledge representation
[AD-A132534] 05 p0732 N84-14806
The axiomatic semantics of programs based on Hoare's logic
[MC-IW-236/83] 07 p1056 N84-16841
Verification of concurrent programs: A temporal proof system 08 p1209 N84-17884
The Thirteenth International Symposium on Multiple-Valued Logic
[AD-A136457] 14 p2189 N84-24115
Completeness for uniformly delayed circuits
[AD-P002325] 14 p2189 N84-24116
A study of reduced dependence in multi-valued sequential machines
[AD-P002326] 14 p2189 N84-24117
A preprocessing procedure method in ternary clause selection
[AD-P002327] 14 p2189 N84-24118
Quotient algebras for logics of imprecision
[AD-P002330] 14 p2189 N84-24121
In the labyrinth of many valued logics
[AD-P002331] 14 p2190 N84-24122
The new method of implementation for ternary logic system
[AD-P002332] 14 p2190 N84-24123
Synthesis of multivalued logic circuits using hyperplanes
[AD-P002335] 14 p2190 N84-24126
Selfdual classes and automorphism groups
[AD-P002341] 14 p2191 N84-24132
On free spectra of clones with sharply transitive automorphism groups
[AD-P002342] 14 p2191 N84-24133
Synthesis method for ternary logic function based on NAND-type polypheck
[AD-P002348] 14 p2192 N84-24139
A general method for the evaluation of degree of completeness
[AD-P002354] 14 p2192 N84-24145
Three-valued logic and its application to the query language of incomplete information
[AD-P002355] 14 p2192 N84-24146
An approach to fuzziness in the setting of Lukasiewicz logic
[AD-P002357] 14 p2193 N84-24148
Synthesis of axion systems for the three-valued predicate logic by means of the special four-valued logic
[AD-P002358] 14 p2193 N84-24149
A comparison of fuzzy switching functions and multiple-valued switching functions
[AD-P002363] 14 p2193 N84-24154
Fuzzy reasoning under new compositional rules of inference
[AD-P002364] 14 p2194 N84-24155
A study of fuzzy relations and their inverse problem
[AD-P002365] 14 p2194 N84-24156
Regular ternary logic functions. Ternary logic functions suitable for treating ambiguity
[AD-P002366] 14 p2194 N84-24157
A unified approach to composite MVL with monotonic subfunction
[AD-P002368] 14 p2194 N84-24159
A minimization method for engineering estimation
[AD-P002372] 14 p2195 N84-24163
The optimization of GMC over GF(p)
[AD-P002373] 14 p2195 N84-24164
Synthesis of multiple-valued logic functions based on a modular design approach
[AD-P002378] 14 p2195 N84-24169
Synthesis algorithm for minimal components in T-ulm networks
[AD-P002379] 14 p2196 N84-24170
A fuzzy relational inference language for expert systems
[AD-P002380] 14 p2196 N84-24171
Automatic construction of verification generators from Hoare logics 15 p2366 N84-25313
HDM/PASCAL verification system user's manual 15 p2367 N84-25315
Data and results of a laboratory investigation of microprocessor upset caused by simulated lightning-induced analog transients
[NASA-TM-85821] 17 p2733 N84-27376
Using statistical tools
[RAND/N-2121-PSSP] 22 p3647 N84-33124
Research in the design of high-performance reconfigurable systems
[NASA-CR-173998] 24 p3942 N84-34957
A computational logic with quantifiers
[AD-A144335] 24 p3951 N84-35016

MATHEMATICAL MODELS
NT ANALOG SIMULATION
NT BIOLOGICAL MODELS (MATHEMATICS)
NT DIGITAL SIMULATION
NT THOMAS-FERMI MODEL
Vibration analysis of turbomachinery blades by shell theory 01 p0009 N84-10053
Mathematical modelling and theoretical methods for the aerodynamic behaviour of control devices 01 p0013 N84-10085
Modeling and simulation techniques 01 p0015 N84-10096
Curing of graphite/epoxy composites 01 p0030 N84-10186
Heating and melting low-melting ferroalloys and hardeners in molten steel
[BLL-M-35219-(5828.4)] 01 p0040 N84-10256
A simple mathematical model for heat transfer and its application for continuous type reheating furnaces 01 p0077 N84-10503
Optimum forebody shaping for axisymmetric submersibles with turbulent boundary layers and BLC (Boundary Layer Control) afterbodies
[AD-A130950] 01 p0079 N84-10515
Generalized algebraic relation for predicting developing curved-channel flow with a k-epsilon model of turbulence
[DE83-009946] 01 p0080 N84-10520
Modeling of the transmissibility through rolling-element bearings under radial and moment loads 01 p0089 N84-10580
Asymptotic methods in reliability theory: A review
[AD-A130163] 01 p0092 N84-10600
Mathematical models for inelastic behavior and cracking of concrete structures 01 p0093 N84-10605
Computational experience in solving equilibrium models by a sequency of linear complementarity problems
[DE83-011189] 01 p0124 N84-10811
Bulk availability
[AD-A129863] 01 p0129 N84-10845
Implications of analytical investigations about the semiconductor equations on device modeling programs
[AD-A130549] 01 p0130 N84-10851
Rejection of multivariate outliers
[AD-A130686] 01 p0133 N84-10870
Minimum distance estimation of mixture model parameters: Asymptotic results and simulation comparisons with maximum likelihood
[AD-A130426] 01 p0136 N84-10889
Afternoon effect studies, part 1
[AD-A130926] 01 p0140 N84-10918
Damping ring rf system for SIC
[DE83-011853] 01 p0143 N84-10938
Molecular-beam scattering
[DE83-016138] 01 p0144 N84-10951
Further considerations in models of rough surface scattering
[AD-A130424] 01 p0146 N84-10962
Model for the saturation of the hydromagnetic Rayleigh-Taylor instability
[DE83-012629] 01 p0150 N84-10986
Computer modeling of the vapor compression cycle with constant flow area expansion device
[PB83-226639] 01 p0156 N84-11029
Computer modeling of the vapor compression cycle with constant flow area expansion device: Appendix J
[PB83-226647] 01 p0156 N84-11030
Design analysis of an aluminum-air battery for vehicle operations: Transportation systems research
[DE83-014488] 01 p0163 N84-11071
RIM-AIR (Repairable Integrated Model for aviation) study
[AD-A131141] 02 p0169 N84-11113
Aerospatial'es approach to the study of flutter at the design stage of the project 02 p0170 N84-11118
Mathematical models for the brightness temperature of object and environment in the microwave region
[DFVLR-FB-83-12] 02 p0211 N84-11378
Three-dimensional computer modeling of a shock-recovery experiment
[DE83-015915] 02 p0220 N84-11441
Two dimensional linear prediction models. Part 1. Spectral factorization and realization
[AD-A130954] 02 p0280 N84-11833
Information loss caused by noise in models for dichotomous items
[AD-A131369] 02 p0280 N84-11834
Numerical simulation of high energy light ion beam flow through a foilless diode
[AD-A131001] 02 p0289 N84-11892
Alternate implosion models for the plane parallel diode
[AD-A131275] 02 p0295 N84-11937
Review of Stirling-engine mathematical models
[DE83-016454] 02 p0301 N84-11974
Mathematical modeling and simulation of multiaxis hydraulic test facilities 03 p0339 N84-12204
Numerical modeling techniques according to the wave equation and the ray method — in seismology
[BMFT-FB-T-83-136] 03 p0362 N84-12354
Scale modelling and full scale measurement techniques with particular reference to antennas in their operational environments 03 p0364 N84-12368

Physical modeling of EM propagation over nonhomogeneous terrain 03 p0364 N84-12370
Numerical modeling techniques for antennas 03 p0365 N84-12373
Numerical modeling techniques for half-space (ground) problems 03 p0365 N84-12374
Numerical modelling methods for predicting antenna performance on aircraft 03 p0365 N84-12375
Optimization of ultrasonic flaw detection in railroad rail [PB83-236919] 03 p0386 N84-12518
Cumulative damage in components of steel structures under cyclic inelastic loading 03 p0391 N84-12550
Autoregressive models for use in scene segmentation 03 p0393 N84-12561
Simulation aspects in the study of rectification of satellite scanner data 03 p0394 N84-12571
A comparison between GEOS 1 magnetic field measurements and some models of the geomagnetic field [IFSI-82-5] 03 p0409 N84-12675
Second order partial differential equations of mixed type 03 p0424 N84-12775
Deterministic models in mathematical demography: An investigation of stable population theory including an analysis of the population statistics of Denmark 03 p0428 N84-12806
Double porosity model for acoustic wave propagation in fractured-porous rock [DE83-017823] 03 p0431 N84-12823
Beam-target interaction of intense ion beams: Theory and experiment [DE83-018264] 03 p0436 N84-12858
Atomic processes in hot dense plasma [IPPJ-AM-31] 03 p0443 N84-12911
Computational synergetics and innovation in wave, vortex, and plasma cloud dynamics [DE83-015252] 03 p0445 N84-12928
A model for stresses in circular magnets for toroidal fusion devices [DE83-016535] 03 p0447 N84-12937
Detailed modeling of microwave energy deposition in EBT devices [DE83-017496] 03 p0449 N84-12952
A numerical model for diffusion of helium in a hydrogen plasma [REPT-83-147] 03 p0450 N84-12964
Models of maintenance resources interaction: Peacetime operations [AD-A131379] 03 p0457 N84-13011
Theory of hydromagnetic turbulence 03 p0467 N84-13077
Magnetohydrodynamic modeling of coronal structure and expansion 03 p0468 N84-13081
Phase and compression behavior in sedimentation and thickening of liquid-solid suspensions [PB83-249664] 04 p0496 N84-13257
Effective-width model for evacuation flow 04 p0512 N84-13362
Modeling of compartment fires 04 p0512 N84-13364
New modeling of compartment fires and problem of flashover 04 p0513 N84-13365
Similarity analysis of the flow characteristics in diffusion flames 04 p0513 N84-13367
Electrical and thermal modeling of railguns [DE84-001361] 04 p0515 N84-13387
Deformable subreflector computed by geometric optics 04 p0519 N84-13407
Phase locked loop theory and application: A precise paper [CSIR-NIAST-82/57] 04 p0524 N84-13444
The BJT-JFET: A novel merged device structure [AD-A132373] 04 p0525 N84-13454
Temperature rise of handles and knobs [BLL-OA-TRANS-3047-(6196.3)] 04 p0533 N84-13502
Prediction of multicomponent liquid-mixture viscosity from binary thermodynamic data [DE83-011934] 04 p0536 N84-13524
The 1982 International Congress of Photographic Science [AD-A132372] 04 p0538 N84-13536
A general framework for learning curve reliability growth models [AD-A132277] 04 p0546 N84-13596
Mathematical models of nonlinear galvanic polarization [AD-A132403] 04 p0589 N84-13895
The measurement of elastic constants for the determination of stresses by X-rays [AD-A132330] 04 p0590 N84-13897
The Crab Nebula: A theoretical and observational study 04 p0617 N84-14074
The stratified turbulent mixing layer: Velocity and concentration measurements compared with a discrete vortex model 05 p0626 N84-14117
Computational modeling of aerodynamic heating for XM797 nose cap configurations [AD-A133684] 05 p0627 N84-14126
Optimum aerodynamic maneuvers of orbiting vehicles 05 p0629 N84-14133
Ion coupling to magnetosheath bulk motion — Active Magnetospheric Particle Tracers Explorers (AMPTE) program 05 p0641 N84-14217
Lagrange gage studies of nonideal explosives containing NH-4NO-3 [AD-A132760] 05 p0661 N84-14347
Simulation and interpretation of polarization diversity radar spectral functions [AD-A132622] 05 p0670 N84-14402
The programs used to compare the predictions of some geomagnetic models with the measurements from the experiment S-331 onboard the GEOS-1 satellite [IFSI-82-2] 05 p0705 N84-14627
Time lapse simulation of interrelated weather conditions [AD-A133999] 05 p0708 N84-14639
Symposium on mathematical modeling of circadian systems [AD-A133636] 05 p0713 N84-14673
Model of the behavior of the human visual system for the perception of contour elements — image processing [FUB-44-1982] 05 p0714 N84-14677
An empirically developed Fourier series model for describing software failures [AD-A132739] 05 p0729 N84-14787
Enhancement and verification of the Navy CASEE model (Calendar year 1982 task) [AD-A133077] 05 p0730 N84-14793
Measures of nonlinearity for segmented regression models [AD-A132638] 05 p0740 N84-14864
A mathematical investigation of the induction acceleration of conductors [AD-A133786] 05 p0741 N84-14870
A calculator adaptation of the Markov chain model for manpower analysis [AD-A132990] 05 p0757 N84-14966
Outer satellite atmospheres: Their extended nature and planetary interactions [NASA-CR-174579] 05 p0764 N84-15013
A model of the trailing edge separation on an airfoil [AD-A126703] 06 p0782 N84-15125
A formula for the sputtering yield of polycrystalline materials 06 p0816 N84-15313
Flat cloud modeling — unconfined gas explosions 06 p0836 N84-15442
Estimate of blast wave properties — unconfined vapor cloud explosions (UVCE) 06 p0836 N84-15443
Computation of turbulent gas-particle suspension flows in channels 06 p0839 N84-15470
Improved turbulence models based on large eddy simulation of homogeneous, incompressible turbulent flows 06 p0845 N84-15514
Application of two-dimensional discrete-ordinates methods to multiple scattering of laser radiation [AD-A133258] 06 p0849 N84-15539
Heat generation in aircraft tires under braked rolling conditions [NASA-CR-3768] 06 p0858 N84-15587
Multiple paths on the ocean surface 06 p0870 N84-15666
The salt-gradient solar pond [AD-A126702] 06 p0873 N84-15683
Development of theoretical models and analyses of the micro-physics of cloud and precipitation systems [AD-A133557] 06 p0882 N84-15735
Report and recommendations for improving constitutive relations used in computer codes — shock mechanics in solids [AD-A133239] 06 p0897 N84-15823
Experimental designs for quantal response models [AD-A133416] 06 p0901 N84-15851
Spinning mode acoustic radiation from the flight inlet [NASA-CR-172273] 06 p0908 N84-15896
Production networks: A dynamic model of production [AD-A133571] 06 p0933 N84-16065
Design of a lateral ride comfort control system for STOL aircraft [UTIAS-TN-247] 07 p0950 N84-16165
Some aspects of mathematical and chemical modeling of complex chemical processes [NASA-TM-77055] 07 p0969 N84-16279
A 2-phase flow model for the diffused cavitation study [CISE-2109] 07 p1004 N84-16514
Modeling SO2 effects on the productivity and growth of plants [DE83-010259] 07 p1027 N84-16655
Fundamentals of elasticity theory 07 p1030 N84-16680
Problems, examples and exercises 07 p1030 N84-16682
A comparison of sea ice model results using three different wind forcing fields [AD-A134462] 07 p1040 N84-16746
Elements of an iceberg deterioration model [AD-A133223] 07 p1041 N84-16749
A theory of diagnostic inference: Judging causality [AD-A133172] 07 p1049 N84-16796
Optimal estimation with chaotic dynamics 07 p1060 N84-16874
An algebraic specification method for processes over a finite action set [MC-IW-232/83] 07 p1066 N84-16917
The algebra of recursively defined processes and the algebra of regular processes [MC-IW-235/83] 07 p1066 N84-16918
On specifying sets of integers [MC-IW-237/83] 07 p1066 N84-16919
Analytical study of the twin-jet shielding [NASA-CR-175357] 07 p1069 N84-16943
Benthic boundary layer - IOS modelling programme [IOS-162] 07 p1074 N84-16983
Numerical simulation of the plasma current quench following a disruptive energy loss [DE84-003151] 07 p1077 N84-17004
The control of float zone interfaces by the use of selected boundary conditions [NASA-CR-170959] 07 p1079 N84-17017
Project DELUGE: A proposed mathematical model for the Holloman AFB test track simulated rainfield [AD-A134891] 08 p1108 N84-17207
Contributions to satellite sheath and wake modeling 08 p1117 N84-17266
Method of high-temperature expansions in short-range order theory [BLL-M-35385-(5826.4)] 08 p1129 N84-17344
Analysis of longwave radiation for the Earth-atmosphere system [NASA-CR-173155] 08 p1143 N84-17437
FM spectral modeling and FDM/FM simulation programs [PB84-118934] 08 p1147 N84-17469
Thermal-energy transport from arc to rails in an arc-driven rail gun [AD-A134991] 08 p1152 N84-17499
Infrared heating [BLL-OA-TRANS-3121-(6196.3)] 08 p1154 N84-17512
A new model of the geomagnetic variation in the upper atmosphere [AD-A135210] 08 p1187 N84-17733
A model for simulation of a fluctuating plume [FOA-C-40165-A1(C1)] 08 p1188 N84-17741
Foundations of computer science 4. Distributed systems. Part 2: Semantics and logic [MATH-CENTRE-TRACTS-159-PT-2] 08 p1206 N84-17879
Processes and the denotational semantics of concurrency 08 p1208 N84-17881
The fairness problem and nondeterministic computing networks 08 p1209 N84-17883
Algorithms, modeling and estimation for linear systems [AD-A135134] 08 p1218 N84-17951
Identification of a class of filtered Poisson processes [AD-A134970] 08 p1221 N84-17969
Virtual cathode oscillations [AD-A135120] 08 p1226 N84-18027
Numerical simulations of the NRL collective particle accelerator [AD-A135533] 08 p1228 N84-18028
Learning from numerical calculations of ion-atom collisions [DE84-003265] 08 p1229 N84-18035
Research on modeling of FED/INTOR radio-frequency heating and studies of FED/INTOR impurity-control mechanisms [DE83-016756] 08 p1233 N84-18056
Secondary flow spanwise deviation model for the stators of NASA middle compressor stages [NASA-CR-173360] 09 p1256 N84-18202
Study of finitistic channel models [AD-A136139] 09 p1303 N84-18521
Modeling of transient heat pipe operation [NASA-CR-173305] 09 p1312 N84-18575
The generation of three-dimensional body-fitted coordinate systems for viscous flow problems [AD-A136503] 09 p1314 N84-18588
Numerical fluid dynamics [AD-A135900] 09 p1315 N84-18593
Optimization of parameters of electromechanical systems with mechanical balancing [BLL-M-35442] 09 p1324 N84-18651
Numerical simulation of the forcing of monsoon surges by mid-latitude baroclinic waves [AD-A136274] 09 p1348 N84-18807

Simplified confidence intervals for an awkward nonlinear model
[AD-A136403] 09 p1374 N84-18975
On the robust rank analysis of linear models with nonsymetric error distributions
[AD-A135792] 09 p1377 N84-18994
Aspects of pattern theory
[AD-A136506] 09 p1381 N84-19022
The mathematical structure of elementary particles
[AD-A136295] 09 p1387 N84-19060
Information content and sensitivity of matrix elements to structural changes in complex scattering system
[AD-A136600] 09 p1388 N84-19068
Uniaxial model for gas-loaded variable conductance heat pipe performance: The effects of vapor flow, friction, and inertia 10 p1443 N84-19424
Integration of mathematical models: Experience of first Spacelab mission 10 p1444 N84-19431
Thermal control of the SPOT satellite payload telemetry 10 p1447 N84-19456
Some signal processing methods based on covariance estimates of signal and noise
[FOA-C-30343-E1] 10 p1484 N84-19701
Analytical studies of turbulent flow fields
[AD-A137006] 10 p1493 N84-19761
Turbulence measurements in plane jets and plumes in crossflow 10 p1496 N84-19783
Underwater acoustic modeling techniques 10 p1507 N84-19864
A stochastic model for the Man-Machine-Soil-Environment System (MMSES) and the influence of vibrations 10 p1512 N84-19895
Simple approximate models for a class of structures 10 p1515 N84-19921
Mathematical theories, numerical investigations — geodesy 10 p1519 N84-19949
Commentary on Columbia River instream flows
[PB84-133851] 10 p1527 N84-20007
Regional acid deposition: Models and physical processes
[PB84-115997] 10 p1532 N84-20035
A model to calculate hourly temperatures from three regular readings, part 3
[KNMI-165-3] 10 p1540 N84-20093
Analysis of observed and modeled mixed layers: Nocal (northern California) region
[AD-A136773] 10 p1543 N84-20109
A mathematical model for oxygen toxicity in man
[AD-A137379] 10 p1547 N84-20139
A microcomputer based general linear programming optimization package
[AD-A137506] 10 p1557 N84-20198
DARK: A computer based system for simulating the potential hazards from releases of pressurized gases
[FOA-C-40183-C2] 10 p1565 N84-20255
Time optimal control of a crane
[EUT-83-E-135] 10 p1568 N84-20271
Ray modeling methods for range dependent ocean environments
[AD-A137202] 10 p1569 N84-20278
Toward a new kinetic theory for resonant triads
[AD-A137066] 10 p1571 N84-20297
Technical specifications for spread function model
[AD-A137292] 10 p1575 N84-20321
The optimization method for the Mather plasma focus device 10 p1583 N84-20377
Elastic theory of the defect solid solution
[DE84-001976] 10 p1590 N84-20418
A micro-computer based system to compute magnetic variation
[NASA-CR-173376] 11 p1604 N84-20506
Turbulent swirling combustion 11 p1609 N84-20535
Error reduction program: A progress report 11 p1609 N84-20536
Identification of multivariable high-performance turbofan engine dynamics from closed loop data 11 p1617 N84-20580
Pilot modeling, modal analysis, and control of large flexible aircraft 11 p1617 N84-20584
A calculation of descent segment of internal ballistics in solid rocket motors
[AD-A137199] 11 p1626 N84-20642
Real-time update of 2 H. F. (High Frequency) channel evaluation models by oblique sounding
[AD-A137556] 11 p1643 N84-20739
Free vibration analysis with beam models which include bending warping, torsion warping and anticlastic bending effects 11 p1667 N84-20874
The upper mantle beneath the Cascade Range: A comparison with the Gulf of California
[NASA-CR-175428] 11 p1681 N84-20970
Investigate and verify the validity of mathematical formulas in relation to data obtained from theoretical investigations and experimental observations
[AD-A137847] 11 p1682 N84-20974
Application of methods of numerical and software engineering analysis to physical and engineering data collected in a variety of laboratory and field measurement programs
[AD-A137863] 11 p1682 N84-20975
Simulation of midlatitude variability
[AD-P002655] 11 p1690 N84-21020
Ventilated and unventilated models of the wind-driven circulation
[AD-P002657] 11 p1690 N84-21022
Methods for describing the coexistence of competing degrees of freedom in a many body system
[CSIR-TWISK-298] 11 p1712 N84-21159
Stability of finite difference models containing two boundaries or interfaces
[NASA-CR-172319] 11 p1712 N84-21165
An extension of the two-parameter logistic model to the multidimensional latent space
[AD-A137769] 11 p1713 N84-21173
Harmony theory: A mathematical framework for stochastic parallel processing
[AD-A137883] 11 p1714 N84-21178
Comparison of the dichotomous and polychotomous quantal response models
[AD-A137938] 11 p1715 N84-21185
On segmentation of digital images using spatial and contextual information via a 2-dimensional Markov model
[AD-A137942] 11 p1715 N84-21186
Systems of nonlinear algebraic equations arising in simulation of semiconductors devices
[DE84-006490] 11 p1716 N84-21195
Lie algebraic methods for particle tracking calculations
[DE84-004310] 11 p1716 N84-21196
On the logical development of statistical models
[AD-A137936] 11 p1717 N84-21203
The subjective function approach for analyzing systems
[RAND/P-6883] 11 p1718 N84-21206
Unbalanced digital crosswalk in balanced, twisted pair, inside wiring cable 11 p1720 N84-21216
Numerical analyses for scrape-off plasmas in FER divertor chamber 11 p1734 N84-21313
Summary of the Symposium on Atomic Collision Data for Diagnostics and Modelling of Fusion Plasma 11 p1736 N84-21328
Axisymmetric, non-ideal MHD states with steady flow
[DE84-006045] 11 p1738 N84-21340
Enhancement and verification of the Navy CASEE (Comprehensive Aircraft Support Effectiveness Evaluation) model (calendar year 1983 task)
[AD-A136516] 12 p1764 N84-21505
Development and flight test evaluation of an analytical model of the air-to-air tracking task
[AD-A138058] 12 p1772 N84-21555
Precise orbit determination for ERS-1
[ESA-CR(P)-1842] 12 p1776 N84-21591
Thermal design verification of the large open truss structures. The local approach and the shadow problem — large space structures 12 p1780 N84-21617
Development of procedures for component mode synthesis
[DFVLR-IB-232-82-C-09] 12 p1782 N84-21626
The introduction of clampbands in spacecraft structural mathematical models
[EMSB-12/83] 12 p1782 N84-21627
Survey of techniques employed in the analysis of rocket motor solid propellants
[ED-80-292] 12 p1782 N84-21630
Effect of concentrated energy streams on materials: Problems and prospects 12 p1784 N84-21636
Microwave sintering of ceramics
[AD-A138402] 12 p1801 N84-21744
Modeling antennas near to and penetrating a lossy interface
[DE84-004785] 12 p1806 N84-21786
On the genesis of reliability models
[ARL-STRUC-REPT-393] 12 p1824 N84-21889
Contact stresses in pin-loaded orthotropic plates
[NASA-CR-173475] 12 p1825 N84-21900
Fundamental remote sensing science research program. Part 1: Scene radiation and atmospheric effects characterization project
[NASA-TM-86078] 12 p1830 N84-21929
Reflectance modeling 12 p1830 N84-21931
Bidirectional reflectance modeling of non-homogeneous plant canopies 12 p1830 N84-21932
Scattering models in the microwave regime 12 p1831 N84-21937
Comparison of GLAS retrieved cloud fields with model generated rainfall fields 12 p1851 N84-22061
Effect of high latitude filtering on NWP skill 12 p1852 N84-22066
The effect of compact implicit differencing in a baroclinic primitive equations model 12 p1852 N84-22067
Design of a linear projector for use with the normal modes of the GLAS 4th order GCM 12 p1853 N84-22070
Investigation of the equatorial orographic-dynamic mechanism applying the bounded derivative method 12 p1854 N84-22078
Modeling climatology of areal coverage
[AD-A138276] 12 p1860 N84-22120
Computer-Aided Geometry Modeling
[NASA-CP-2272] 12 p1869 N84-22179
Use of shape-preserving interpolation methods in surface modeling 12 p1870 N84-22183
Interactive geometry modeling of space station conceptual designs 12 p1871 N84-22191
Application and enhancements of MOVIE.BYU 12 p1871 N84-22195
Mathematical synthesization of complex structures 12 p1876 N84-22224
Review and verification of CARE 3 mathematical model and code
[NASA-CR-166096] 12 p1876 N84-22227
Observation model and parameter partials for the JPL VLBI parameter estimation software MASTERFIT-V1.0
[NASA-CR-173455] 12 p1879 N84-22245
Numerical modeling of D-mappings with applications to chemical kinetics
[NASA-TM-84332] 12 p1893 N84-22326
Investigations of the structure and electromagnetic interactions of few body systems
[DE84-006852] 12 p1902 N84-22388
Numerical methods for transient semiconductor device modelling
[AD-A137970] 12 p1913 N84-22462
A Generalized Escape System Simulation (GESS) computer program: GESS user's guide, version 2, volume 1
[AD-A138844] 13 p1928 N84-22545
Model identification and parameter estimation of the power, lift, and drag of light aircraft from a single maneuver 13 p1930 N84-22552
The 14th JANNAF Plume Technology Meeting, volume 1
[AD-A139654] 13 p1941 N84-22619
Theoretical calculation of H/sub 2 S- and Q-branch spectra for propellant flames 13 p1943 N84-22636
Rocket motor aeroacoustics 13 p1944 N84-22642
On the oscillatory flowfield in solid rocket motors 13 p1945 N84-22645
Modeling the self-deflagration of HMX 13 p1951 N84-22682
Modeling effects of composition on the burn rates of nitrate ester-based energetic binders 13 p1951 N84-22685
Vortex motion in a precombustion chamber with intersecting jets
[AD-A139040] 13 p1956 N84-22717
Hypersonic flow around flat body in case of intense radiative heat exchange 13 p1972 N84-22795
Wave drag of elongated astroid bodies at moderate supersonic flight velocities 13 p1972 N84-22797
Information processing and decisionmaking organizations: A mathematical description
[AD-P002878] 13 p1978 N84-22839
Asymptotic models for wave scattering from very rough surfaces 13 p1984 N84-22883
Parametric and nonparametric Fast Kalman echo cancellation 13 p1987 N84-22901
Turbulence modeling
[NASA-TM-85889] 13 p1989 N84-22913
CONSERVB: A numerical method to compute soil water content and temperature profiles under a bare surface
[E84-10113] 13 p2005 N84-23006
Evaporation from a bare soil evaluated from a soil water transfer model using remotely sensed surface soil moisture data
[CRPE-NT-125] 13 p2006 N84-23016
Thermodynamic model for a central receiver of a solar plant with partial shading of the heliostat field
[ESA-TT-807] 13 p2010 N84-23034
A one dimensional model for the study of upwelling
[INPE-2936-RPE/445] 13 p2018 N84-23086
Some comparisons between NVL and oracle-based MRTD approaches — vision models
[BAE-BT-11240] 13 p2020 N84-23096
Modeling of inhalation administration of vapors with capacity limited clearance
[AD-A138847] 13 p2020 N84-23098
Stability and performance deterioration due to modelling errors — plant models
[RR-236] 13 p2031 N84-23136
An exactly solvable model for ideally polarizable interfaces
[AD-A138719] 13 p2033 N84-23182
The ideally polarizable interface: A solvable model and general sum rules
[AD-A138720] 13 p2036 N84-23207

Ice-covered volcanic water flows on Ganymede
13 p2073 N84-23432
Modeling Io volcanism: Maximum volcanic temperatures, depths of melting and magma composition
13 p2073 N84-23436
Geologic studies of outer solar system satellites: Iapetus and Europa
13 p2075 N84-23448
Venus banded terrain: Evaluation of tectonic models for the origin of banding
13 p2077 N84-23458
Ring spacing of Mercurian multi-ring basins and basin ring formation
13 p2078 N84-23464
Radar backscatter modelling
13 p2088 N84-23525
A study of aeroelastic and structural dynamic effects in multi-rotor systems with application to hybrid heavy lift vehicles
[NASA-CR-173505] 14 p2104 N84-23620
Non-steady combustion of composite solid propellants
[AD-A139182] 14 p2132 N84-23776
Finite-difference fluid dynamics computer mathematical models for the design and interpretation of experiments for space flight — atmospheric general circulation experiment, convection in a float zone, and the Bridgman-Stockberger crystal growing system
[NASA-TP-2323] 14 p2144 N84-23852
Modeling of zero gravity venting
[NASA-CR-173503] 14 p2145 N84-23854
Arctic Sea ice by passive microwave observations from the Nimbus-5 Satellite
14 p2166 N84-23970
Predictability of the Earth's polar motion
[NASA-TM-86095] 14 p2169 N84-23991
An atmospheric millimeter wave propagation model
[AD-A139154] 14 p2176 N84-24033
The numerical calculation of traveling wave solutions of nonlinear parabolic equations on the line
[AD-A139238] 14 p2212 N84-24283
A response model for multiple choice items
[AD-A139396] 14 p2214 N84-24297
Computational modeling and mathematics applied to the physical sciences
[DE84-006252] 14 p2214 N84-24301
Mirrorless intrinsic optical bistability due to the local field correction in the Maxwell-Bloch formulation
14 p2233 N84-24397
Routes to optical turbulence in a dispersive ring bistable cavity containing saturable nonlinearities
14 p2234 N84-24404
NASA/Howard University Large Space Structures Institute
[NASA-CR-173425] 14 p2244 N84-24476
Dynamics and control of flexible orbiting systems
14 p2245 N84-24481
Comparison of free-piston Stirling engine model predictions with RE1000 engine test data
[NASA-TM-83650] 14 p2249 N84-24509
An algorithm for the prediction of unsteady potential flow about an arbitrary aerofoil
[GU-AERO-8306] 15 p2257 N84-24553
Optimal cooperative control synthesis applied to a control-configured aircraft
[NASA-CR-170411] 15 p2264 N84-24593
A simplified method of evaluating aircraft handling qualities using a pilot transfer function model
[GU-AERO-8302] 15 p2264 N84-24595
Potential utility of future satellite magnetic field data
[NASA-CR-175230] 15 p2279 N84-24691
Vibration Control Of Space Structures VCOSS A: High and low-authority hardware implementations
[AD-A139931] 15 p2281 N84-24702
Analysis of electrophoresis performance
[NASA-CR-171034] 15 p2286 N84-24716
Experimental study and modeling of the kinetics of hydrocarbon combustion
15 p2292 N84-24754
Evaluation of multi-dimensional flux models for radiative transfer in combustion chambers: A review
15 p2293 N84-24760
A droplet evaporation rate controlled combustion model
15 p2293 N84-24761
Prediction of turbulent reactive flow
15 p2293 N84-24762
An aerodynamic study of combustion in the combustion chambers of turbomachines: Experimental and theoretical approaches
15 p2293 N84-24764
Reliability-based design principle of composite materials with failure probability as a statistic
15 p2309 N84-24851
Effective elastic moduli of an isotropic, two-phase composite
15 p2309 N84-24852
Thermodynamic model of creep at constant stresses and constant strain rates
[AD-A139883] 15 p2317 N84-24906
D-1 statistical model of tropospheric multipath propagation
15 p2322 N84-24944
Stability of flow processes for dissipative solids with internal imperfections
[ISSN-0208-5658] 15 p2331 N84-24998
Bearing tester data compilation, analysis and reporting and bearing math modeling, volume 1
[NASA-CR-171039] 15 p2340 N84-25046
Reanalysis of mechanical structures
15 p2349 N84-25099
Application of MAGSAT to lithospheric modeling in South America. Part 2: Synthesis of geologic and seismic data for development of integrated crustal models
[E84-10126] 15 p2355 N84-25126
Satellite elevation magnetic and gravity models of major South American plate tectonic features
15 p2355 N84-25131
Photogrammetric research
[TRITA-FMI-47] 15 p2358 N84-25146
Mathematical aspects of digital terrain information. A progress report from ISPRS Working Group III:3
15 p2358 N84-25148
Multi-models to increase accuracy
15 p2359 N84-25154
Modeling glacial climates
[NASA-TM-86106] 15 p2371 N84-25221
A formal semantics for the SRI hierarchical program design methodology
15 p2387 N84-25318
Mathematical model of power station blocks with forced circulation steam generation
[DRIC-T-7008] 15 p2389 N84-25332
Switching net models: Rudimentary behavior, representations and applications
[AD-A140047] 15 p2398 N84-25391
Interactive decision analysis and modelling
[CSIR-TWISK-294] 15 p2400 N84-25403
La Recherche Aerospatiale, Bimonthly Bulletin, number 1983-S, 216/September - October
[ESA-TT-836] 15 p2402 N84-25419
Inappropriateness of the finite Larmor radius model for the tilting mode in field reversed configurations
[DE84-007467] 15 p2411 N84-25473
Supersymmetric statistical models on the lattice
[DE84-006758] 15 p2414 N84-25494
Line formation in turbulent media
15 p2421 N84-25542
Radiative transfer in Roche coordinates
15 p2421 N84-25544
An investigation of aerodynamic characteristics of wings having vortex flow using different numerical codes
[NASA-CR-173596] 16 p2438 N84-25639
Nonlinear problems in flight dynamics
[NASA-TM-85840] 16 p2439 N84-25648
Study of ERS-1 dynamic interaction. Volume 1: Theoretical notes
[ER-RP-A1-002-VOL-1] 16 p2456 N84-25747
Predicting the delamination of a multistage composite
[SNIAS-832-111-102] 16 p2461 N84-25771
Modeling binary alloy solidification processes
[ORNL/CSD-117] 16 p2464 N84-25790
Path-independent integrals in dynamic fracture mechanics
[AD-P003111] 16 p2468 N84-25816
Study of effects of fuel properties in turbine-powered business aircraft
[NASA-CR-174827] 16 p2473 N84-25854
Optical processing
16 p2490 N84-25975
Generation of three dimensional grids through elliptic differential equations
16 p2491 N84-25983
Computational Fluid Dynamics, volume 2
[VKI-LS-1984-04-VOL-2] 16 p2492 N84-25986
Numerical computation of vortical flows about wings
16 p2492 N84-25987
Solution of the compressible Navier-Stokes equations: Applications to complex turbulent flows
16 p2492 N84-25991
Optimization methods in hierarchical holographic modeling
16 p2494 N84-26001
Three component velocity measurements using Fabry-Perot interferometer
[NASA-TM-83692] 16 p2495 N84-26010
NERF: A computer program for the numerical evaluation of reliability functions-reliability modeling, numerical methods and program documentation
[AR-00-984] 16 p2500 N84-26048
Circumferential cracks in cylindrical shells
16 p2501 N84-26050
Seminar on mathematical models of geodetic/photogrammetric point determination with regard to outliers and systematic errors
[SER-A-98] 16 p2504 N84-26069
Mathematical models of photogrammetric point determination
16 p2504 N84-26070
Stochastic models for point manifolds
16 p2504 N84-26072
Estimation of variances and covariances in the multivariate and in the incomplete multivariate model
16 p2504 N84-26073
Detection of errors in the functional adjustment model
16 p2505 N84-26074
Reliability and discernability of extended Gauss-Markov models
16 p2505 N84-26076
Requirements for validating system models
[AD-P002128] 16 p2525 N84-26214
Self-oscillations and predictability in climate dynamics
[AERONOMICA-ACTA-A-278-1984]
16 p2527 N84-26226
Guide to available mathematical software
[PB84-171305] 16 p2545 N84-26337
On the relationship between Gaussian and binomial models for image registration by sequential tests of hyphotheses
[INPE-3047-PRE/470] 16 p2548 N84-26350
Modular design attitude control system
[NASA-CR-173684] 16 p2548 N84-26352
Mathematical modelling of a continuum. Related modal analysis. Part 3: Programmer's manual
[ESA-CR(P)-1862-VOL-3] 16 p2553 N84-26377
Mathematical modelling of a continuum. Related modal analysis. Volume 2: User's manual
[ESA-CR(P)-1862-VOL-2] 16 p2553 N84-26379
Foundations of a numerical model of slant visibility
[ESA-TT-757] 16 p2557 N84-26403
Boundary layers in space plasmas: A kinetic model of tangential discontinuities
[AERONOMICA-ACTA-A-280-1984]
16 p2558 N84-26406
Three component solar wind model
16 p2581 N84-26555
Control of separated flowfields using forced unsteadiness
17 p2596 N84-26654
Analysis of POPSAT gravity model errors
[ESA-CR(P)-1883] 17 p2615 N84-26737
Loss function used in optimization of array of coupled tracking radioelectronic systems
17 p2630 N84-26824
Collective mode of evolution of plasma produced by optical breakdown in aerosol medium
17 p2631 N84-26828
Mathematical modeling of transient separation flow around circular cylinder
17 p2644 N84-26916
Evaluation of energy characteristics of bipedal walking and running by model analysis
17 p2649 N84-26941
Theoretical modelling of three-dimensional vortex flows in aerodynamics
[AD-A134966] 17 p2667 N84-27007
Uniaxial model for gas-loaded variable conductance heat pipe performance; the effects of vapor flow, friction and inertia
[NLR-MP-83058-U] 17 p2669 N84-27021
Climate modeling at Pacific Ocean Institute of Geography
17 p2697 N84-27178
SAR imagery of ocean-wave swell traveling in an arbitrary direction
17 p2714 N84-27278
Measurements of ocean wave spectra and modulation transfer function with the airborne two frequency scatterometer
17 p2715 N84-27282
Linearized model for wind turbines in yaw
17 p2722 N84-27325
Modeling and simulation of lead-acid batteries for photovoltaic systems
17 p2722 N84-27326
A numerical study of the coastal stratus cloud in a two-dimensional meso-scale model
17 p2733 N84-27371
DANTE: A semantic data model for use in the construction sector
[KU-IB-17/83] 17 p2754 N84-27480
10: Models of volcanism and interior structure
17 p2777 N84-27634
Interaction of convection and small-scale magnetic fields: Influence on the solar luminosity
17 p2779 N84-27642
Modelling solar spectral irradiance variations at ultraviolet wavelengths
17 p2780 N84-27651
Modeling degradation and failure of Ni-Cr-Al overlay coatings
[NASA-TM-83672] 18 p2813 N84-27858
The determination of the Bodner material coefficients for indium 718 and their effects on cyclic loading
[AD-A141174] 18 p2814 N84-27881
An improved version of the k-W model of turbulence
[CFD/83/1] 18 p2837 N84-28011
Assessment of a new global capability for wave climate synthesis
18 p2855 N84-28128
Ocean Wave Statistics: A new look
18 p2855 N84-28129
Spectral approach to interpretation of electromagnetic anomalies in case of E-polarization
18 p2859 N84-28158
Streamflow modelling
[AD-A141281] 18 p2866 N84-28196
Summary of photovoltaic system performance models
[NASA-CR-173737] 18 p2870 N84-28220
Basic mathematical formulation of the contaminant dispersion processes
18 p2877 N84-28268

Higher-order turbulence models including a cloud layer, appendix F 18 p2884 N84-28301
Numerical simulation of thunderstorm gust fronts [AD-A141214] 18 p2889 N84-28339
Brookhaven National Laboratory Coastal Meteorology Program, 1972-1983 [DE84-008584] 18 p2891 N84-28349
Edge waves by boundary collocation [AD-A137959] 18 p2924 N84-28545
The application of HTR coated fuel particle performance models to various problems in materials' science [AERE-R-11029] 18 p2931 N84-28589
Equilibrium calculations for helical axis stellarators [DE84-010636] 18 p2933 N84-28596
Rapidly convergent algorithms for 3-D tandem and stellarator equilibria in the paraxial approximation [DE84-009688] 18 p2933 N84-28603
Models of rapid solidification 18 p2936 N84-28623
Dilution jets in accelerated cross flows [NASA-CR-174717] 19 p2966 N84-28794
UH-60A Black Hawk engineering simulation program. Volume 1: Mathematical model [NASA-CR-166309] 19 p2968 N84-28806
An integrated, optimization-based approach to the design and control of large space structures [AD-A141856] 19 p2982 N84-28896
The structure of evaporating and combusting sprays: Measurements and predictions [NASA-CR-173778] 19 p3021 N84-29155
Calculation of the performance of an RF excited transverse flow CO2 laser [ESA-TT-832] 19 p3030 N84-29221
Spartan Release Engagement Mechanism (REM) stress and fracture analysis [NASA-CR-173779] 19 p3034 N84-29244
Fragmentation under impulsive stress loading [DE84-006341] 19 p3037 N84-29263
Registration of a LANDSAT image to DTM (Digital Terrain Matrix): An error analysis [AD-A141766] 19 p3041 N84-29297
The development of a mathematical foundation for cellular image processing [AD-A142173] 19 p3042 N84-29301
The generation of a mass point model from surface gravity data [AD-A142327] 19 p3054 N84-29382
Theory and modeling of atmospheric turbulence, part 2 [NASA-CR-3817] 19 p3057 N84-29398
Tropical cyclone sea-state probability model development and application [AD-A142212] 19 p3059 N84-29407
Elliptic solvers for Mediterranean Sea ocean modeling [AD-A142306] 19 p3062 N84-29429
Digital systems design language. Design synthesis of digital systems [NASA-CR-162032] 19 p3073 N84-29499
A new minimax algorithm [NASA-CR-172382] 19 p3074 N84-29503
Present-day problems in identification of dynamic systems: A review [ISSN-0208-5658] 19 p3082 N84-29555
The effect of aggregation in nonlinear regression [AD-A141728] 19 p3087 N84-29597
Pareto-optimality, efficiency analysis and empirical production functions [AD-A141768] 19 p3088 N84-29601
Multiple time series modeling and time series theoretic statistical methods [AD-A141891] 19 p3093 N84-29644
Application of the direct simulation Monte Carlo method to mass spectrometer flow [AD-A142326] 19 p3094 N84-29647
General aviation aircraft interior noise problem: Some suggested solutions [NASA-CR-173784] 19 p3099 N84-29685
Steady-state solutions of propagating LIB with rotating motion [IPPJ-672] 19 p3106 N84-29734
A new approach to database logic [AD-A141130] 19 p3115 N84-29795
Decision analysis model for passenger-aircraft fire safety with application to fire-blocking of seats [AD-A142477] 20 p3127 N84-29859
Improved pilot model for application to a computer flight testing program for helicopters [NLR-MP-83052-U] 20 p3129 N84-29869
A theoretical and experimental study of turbulent nonevaporating sprays [NASA-CR-174668] 20 p3130 N84-29877
Design of a candidate flutter suppression control law for DAST ARW-2 [NASA-TM-86257] 20 p3131 N84-29883
OMV: A simplified mathematical model of the orbital maneuvering vehicle [NASA-CR-171123] 20 p3134 N84-29902
Recent applications of the CONTAM 3 computer model to spacecraft propulsion systems 20 p3137 N84-29916
A study of stiffness, residual strength and fatigue life relationships for composite laminates [NASA-CR-172211] 20 p3146 N84-29978
Thin flame model for reactive flow in porous materials [DE84-011406] 20 p3150 N84-30002
Dynamic powder compaction [DE84-006133] 20 p3170 N84-30132
Performance of Beverage antennas at low angles [DE84-011163] 20 p3175 N84-30164
Atomization of liquid sheets in high pressure airflow [NASA-TM-83731] 20 p3183 N84-30223
Numerical simulations of the structure and propagation of self-sustained detonations [AD-A142486] 20 p3184 N84-30230
Numerical and analytical studies of steady detonation waves with expansion losses [AD-A142601] 20 p3184 N84-30232
Application of molecular dynamics to macroscopic particles [DE84-011066] 20 p3186 N84-30244
Dust particles in high speed flows: Calculations of small particle reentry hydrodynamics [DE84-010996] 20 p3186 N84-30245
INFIL1D: A quasi-analytical model for simulating one-dimensional, constant flux infiltration [DE84-006905] 20 p3187 N84-30250
Study of ebullated bed fluid dynamics [DE84-010230] 20 p3187 N84-30251
Progress in the development of an intermittency model of turbulence [CFD/83/7] 20 p3188 N84-30255
Wave uplift pressure on horizontal platforms [PB84-190626] 20 p3188 N84-30257
A theory for cross-coupling in ultrasonic transducer arrays [DE84-010327] 20 p3189 N84-30259
The penetration model of Dehn — terminal ballistics [PML-1984-5] 20 p3199 N84-30316
Effects of bond deterioration on hysteretic behavior of reinforced concrete joints [PB84-192020] 20 p3203 N84-30343
Instrumenting and interpreting the time-varying response of structural systems [DE84-009067] 20 p3203 N84-30346
Research activities of the Geodynamics Branch [NASA-TM-86123] 20 p3220 N84-30455
Geodynamics of crustal deformation and seismotectonic block movements in central Europe 20 p3220 N84-30460
Verification of the accuracy of GEM-L2 in response to criticism by Lambeck and Coleman 20 p3221 N84-30466
Interpreting three-dimensional gravitational and magnetic anomalies 20 p3224 N84-30486
Quasi-two-day variation of lower thermosphere wind velocities 20 p3224 N84-30488
Estimation of recharge in a small southern Arizona basin by means of hydrological, hydrochemical, and environmental isotope data [PB84-159672] 20 p3230 N84-30527
Mechanisms of interannual ocean-atmosphere interactions [NASA-CR-173834] 20 p3245 N84-30595
Daylight availability as a function of atmospheric conditions [DE84-007973] 20 p3247 N84-30609
Applications of combinatorics to the busy period in several queueing models [AD-A142492] 20 p3264 N84-30650
A high current heavy ion beam transport experiment at LBL [DE84-009225] 20 p3294 N84-30912
Reactive resonance and angular distributions in the rotating linear model [DE84-011354] 20 p3295 N84-30919
Monte Carlo simulation of the microcanonical ensemble [DE84-010680] 20 p3295 N84-30923
Optical second-harmonic generation for surface studies [DE84-010718] 20 p3300 N84-30958
A new model of Raman spectra in laser produced plasma [DE84-012487] 20 p3307 N84-31005
Computer simulation studies of sputtering and multimer formation from clean and oxygen reacted surfaces of titanium, vanadium and niobium [AD-A141998] 20 p3308 N84-31009
Fractional quantization of the Hall effect [DE84-009894] 20 p3310 N84-31023
A steady-state version of a dynamic optimal budgeting problem [AD-A142261] 20 p3312 N84-31034
Turbulent diffusion behind vehicles: Experiments and verification of roadway models [PB84-194273] 21 p3326 N84-31101
Interactive aircraft flight control and aeroelastic stabilization [NASA-CR-173866] 21 p3344 N84-31214
Optimization of the capture process for a rigid satellite stabilized by gravity gradient [INPE-3184-PRE/549] 21 p3349 N84-31245
Empirical relations for cavitation and liquid impingement erosion processes [NASA-TP-2339] 21 p3365 N84-31349
Scattering properties of a moving dielectric object [AD-A142845] 21 p3386 N84-31489
New approach to the effective stress principle [DE84-006963] 21 p3401 N84-31574
Liquid flow through mesh-wire gauze wicks — models [NLR-TR-83104-U] 21 p3403 N84-31592
Modeling the behavior of type 304 stainless steel with a unified creep-plasticity theory 21 p3417 N84-31672
Mathematical modeling of longitudinal profile adjustment in alluvial streams 21 p3425 N84-31726
The near-Earth magnetic field at 1980 determined from MAGSAT data [E84-10170] 21 p3426 N84-31733
US EPA (Environmental Protection Agency) regional oxidant model, background and overview [PB84-201660] 21 p3437 N84-31806
AFGL cloud modeling program: Annex [AD-A143084] 21 p3447 N84-31872
Modeling, control and simulation of three-dimensional robotic systems with application to biped locomotion 21 p3460 N84-31943
Specifying the behavior of concurrent systems [NASA-CR-173839] 21 p3464 N84-31957
Efficient sequential designs with binary data [AD-A142904] 21 p3473 N84-32008
Research in nonlinear motion [AD-A143000] 21 p3473 N84-32013
Assessment of local influence [AD-A143002] 21 p3473 N84-32014
Applied chromodynamics [DE84-009136] 21 p3495 N84-32152
A survey of the methods of MHD analysis of magnetic islands [DE84-008858] 21 p3502 N84-32197
Numerical calculations in quantum field theories [DE84-010892] 21 p3507 N84-32217
Nonlinear analysis of Stirling engine thermodynamics [DE84-013493] 21 p3507 N84-32219
One method of assessing the validity of organizational-systems modelling [BLL-M-35605-(5828.4)] 21 p3508 N84-32222
Solution and sensitivity analysis of RESDYN model 1a using SENSUMT [AD-A142788] 21 p3515 N84-32267
Theoretical models for the polarization of astronomical masers 21 p3522 N84-32313
Simulation requirements for the Large Deployable Reflector (LDR) [NASA-CR-171140] 21 p3523 N84-32317
Three-dimensional model for fusion processes [DE84-011731] 21 p3526 N84-32339
Unsteady transonic flow in cascades [NASA-TM-83780] 22 p3530 N84-32351
A mathematical simulation model of the CH-47B helicopter, volume 2 [NASA-TM-84351] 22 p3535 N84-32380
Rocket injector anomalies study. Volume 1: Description of the mathematical model and solution procedure [NASA-CR-174702] 22 p3543 N84-32428
Mathematical model of electrostatic precipitation (revision 3). Volume 1: Modeling and programming [PB84-212679] 22 p3549 N84-32469
Mathematical model of electrostatic precipitation (revision 3). Volume 2: User's manual [PB84-212687] 22 p3549 N84-32470
Numerical calculations of the function of the static receptivity of electrons in metals [BLL-M-35640-(5828.4)] 22 p3551 N84-32480
Textile ballistic performance (data base) [AD-A143249] 22 p3560 N84-32541
Empirical modeling of a Lysholm helical screw expander [DE84-013694] 22 p3564 N84-32574
NASTRAN structural model for the large 64-meter antenna pedestal. Part 3: Applications to hydrostatic bearing oil film 22 p3574 N84-32638
Ku-Band rendezvous radar performance computer simulation model [NASA-CR-171804] 22 p3576 N84-32650

Atmospheric propagation effects on infrared radars
[AD-A143196] 22 p3576 N84-32651
HF prediction using adiabatic invariant theory
[AD-A143239] 22 p3576 N84-32652
Analysis, testing, and evaluation of faulted and unfaulted Wye, Delta, and open Delta connected electromechanical actuators
[NASA-CR-171806] 22 p3585 N84-32707
Thermally induced instabilities of two-layer fluid systems 22 p3592 N84-32745
The structure of the vorticity field in turbulent channel flow. Part 1: Analysis of instantaneous fields and statistical correlations
[NASA-TM-86019] 22 p3593 N84-32753
Developing turbulent flow in a 180(0) curved pipe and its downstream tangent
[DE84-013391] 22 p3595 N84-32767
Retardation analytical model to extend service life
[NASA-CR-173891] 22 p3608 N84-32662
Two-dimensional finite amplitude mountain waves in the presence of moisture 22 p3622 N84-32947
Duality in inexact fractional programming with set-inclusive constraints
[DE84-023584] 22 p3642 N84-33092
Controller technique of compensation figured in an active control scheme on the accumulated effects of deviation in the modeling
[INPE-2987-TDL/152] 22 p3643 N84-33100
Quasiconformal mappings and grid generation
[NASA-CR-173920] 22 p3644 N84-33105
Robust C(Alpha)-type tests for linear models
[AD-A143177] 22 p3648 N84-33125
Inelastic strong interactions at high energies
[DE84-013647] 22 p3655 N84-33170
The allocation of data and programs in distributed data processing environments 22 p3670 N84-33261
Liquified natural gas densities: Summary of research program at the National Bureau of Standards
[PB84-202647] 22 p3675 N84-33297
Possible cosmological origin of the ultra high energy cosmic rays
[DE84-013063] 22 p3681 N84-33334
AVCAL (Aviation Consolidated Allowance) restoration program and aircraft material condition
[AD-A144045] 23 p3687 N84-33366
Optimal digital control of a bank-to-turn missile
[AD-A144043] 23 p3699 N84-33447
Optimizing parameters and controls for maneuvering flexible structures
[AD-A143726] 23 p3701 N84-33457
Fusing capacity of concentrated laser beam 23 p3710 N84-33515
Ignition and flame propagation in sprays
[AD-A143773] 23 p3713 N84-33538
Research on phase transformations and non-equilibrium process
[DE84-014376] 23 p3720 N84-33580
Acta armamentarii (selected articles)
[AD-A143904] 23 p3726 N84-33610
Theoretical analysis of microwave propagation
[AD-A143782] 23 p3731 N84-33647
Prediction model for the life of nickel-cadmium batteries in geosynchronous orbit satellites 23 p3737 N84-33686
Gallium arsenide field-effect transistor magnetic field studies
[AD-A144058] 23 p3742 N84-33721
A discrete element prediction approach for turbulent flow over rough surfaces 23 p3746 N84-33744
Thermodynamic analysis of journal bearings operating under steady state loading in laminar regime 23 p3756 N84-33809
Quality measures for estimating the proportions of different classes within a single image resolution element (Pixel)
[INPE-2791-PRE/354] 23 p3763 N84-33852
Spectral characterization of biophysical characteristics in a boreal forest: Relationship between Thematic Mapper band reflectance and leaf area index for Aspen 23 p3766 N84-33875
Modeling the polarization dependence of the attenuation in vegetation canopies — microwave attenuation 23 p3767 N84-33876
The derivation of the mapping equations and distortion formulae for the satellite tracking map projections
[AD-A143683] 23 p3784 N84-33998
Design, analysis and test verification of advanced encapsulation systems
[NASA-CR-173955] 23 p3787 N84-34016
Comprehensive silicon solar cell computer modeling
[NASA-CR-173953] 23 p3788 N84-34025
Computer implementation of a globally averaged model of the world carbon cycle
[DOE/NBB-0062] 23 p3793 N84-34055
Insolation assessment studies
[DE84-004523] 23 p3798 N84-34084
Report of the Second Session of the JSC/CCCO WOCE Scientific Steering Group
[WCP-81] 23 p3801 N84-34102
Validation of relative-time-spent rating scales
[AD-A144067] 23 p3812 N84-34169
Boolean operations in solid modelling: Boundary evaluation and merging algorithms
[TM-26] 23 p3818 N84-34207
Computational modeling and mathematics applied to the physical sciences
[PB84-180512] 23 p3819 N84-34222
The 2-on-1 stochastic duel
[AD-A143679] 23 p3820 N84-34224
A theoretical model for the cross spectra between pressure and temperature downstream of a combustor
[NASA-TM-83671] 23 p3821 N84-34231
Dynamics of heat, mass and momentum transfer in an inductively coupled plasma
[DE84-014121] 23 p3828 N84-34282
Investigation of electro-optical effects in liquid crystals for high information density over a wide temperature range — displays
[BMFT-FB-T-84-120] 23 p3831 N84-34304
A modeling analysis program for the JPL Table Mountain Io sodium cloud data
[NASA-CR-173971] 23 p3844 N84-34386
Saturn's rings: 3-mm low-inclination observations and derived properties
[NASA-TM-87363] 23 p3844 N84-34387
Design of an orbital heating simulator using IR techniques 24 p3864 N84-34487
Predictive thermal-vacuum modeling by variable coefficients 24 p3864 N84-34493
Macrosegregation in aluminum alloy ingot cast by the semicontinuous direct chill method 24 p3883 N84-34600
On numerical methods in non-Newtonian flows
[DE84-701276] 24 p3899 N84-34691
Modeling two-dimensional freezing using transfinite mappings and a moving-mesh finite element technique
[AD-A144131] 24 p3900 N84-34696
Development of a global model for atmospheric backscatter at CO2 wavelengths 24 p3924 N84-34838
Numerical simulation of mesoscale precipitation 24 p3930 N84-34876
Investigation of mesoscale pre-convective forcing mechanisms 24 p3931 N84-34883
LAMPS software 24 p3931 N84-34884
A study of the interaction of millimeter wave fields with biological systems
[AD-A144150] 24 p3935 N84-34910
Multi-length arithmetic implementation and uses
[MR-179] 24 p3950 N84-35008
Tests for sphericity under correlated multivariate regression equations model
[AD-A144658] 24 p3952 N84-35024
Numerical simulations of collisions in self-gravitating systems 24 p3967 N84-35237

MATHEMATICAL PROGRAMMING
NT DYNAMIC PROGRAMMING
NT LINEAR PROGRAMMING
NT NONLINEAR PROGRAMMING
NT QUADRATIC PROGRAMMING
FPP1, A floating point package for PDP-8 computers
[AD-A134235] 07 p1054 N84-16828
Generalized Dinkelbach-type algorithms
[CSIR-TWISK-295] 11 p1712 N84-21161
A framework for the probabilistic analysis of hierarchial planning systems
[MC-BW-180/83] 13 p2037 N84-23216
A development of logistics management models for the Space Transportation System
[NASA-CR-173504] 14 p2113 N84-23664
An introduction to geometric programming
[AD-P002962] 14 p2200 N84-24202
Modelling with integer variables
[AD-A140212] 16 p2549 N84-26363
An optimization methodology for multi-criteria comparison using response surface methods and mathematical programming
[AD-A141169] 18 p2926 N84-28555
Vectorized sparse elimination
[AD-A141131] 19 p3095 N84-29657

MATHEMATICAL TABLES
Intersection of parametric surfaces using lookup tables 12 p1870 N84-22185

MATHEMATICS
National Science Foundation authorization, 1984 authorization
[GPO-21-280] 02 p0303 N84-11990
Mathematics of multidart probability predictions
[AD-A140745] 17 p2760 N84-27526
USSR report: Physics and mathematics
[JPRS-UPM-84-001] 20 p3285 N84-30862
USSR report: Physics and mathematics
[JPRS-UPM-84-005] 21 p3484 N84-32081
Annals of the Fourier Institute, volume 34, no. 2
[ISSN-0373-0956] 22 p3635 N84-33038

MATRICES
Research in numerical linear algebra and numerical methods for large-scale least squares and other problems
[AD-A131400] 02 p0280 N84-11838
Transformation toughened and whisker reinforced ceramics
[DE84-003281] 07 p0979 N84-16346

MATRICES (CIRCUITS)
Restructurable VLSI program
[AD-A131246] 01 p0072 N84-10472

MATRICES (MATHEMATICS)
NT ADJOINTS
NT CANONICAL FORMS
NT EIGENVALUES
NT EIGENVECTORS
NT JORDAN FORM
NT STIFFNESS MATRIX
Multigrid semi-implicit hydrodynamics revisited
[DE83-012675] 01 p0081 N84-10526
Rejection of multivariate outliers
[AD-A130666] 01 p0133 N84-10670
A numerical analyst's Jordan canonical form
[AD-A130775] 01 p0133 N84-10673
KWIC index for numerical linear algebra
[DE83-014889] 01 p0135 N84-10682
Aerospatial'es approach to the study of flutter at the design stage of the project 02 p0170 N84-11118
Solution of sparse underdetermined systems of linear equations
[DE83-016460] 02 p0283 N84-11853
Limit theorems for the eigenvalues of product of two random matrices
[AD-A131662] 03 p0425 N84-12787
A solution technique for complex matrix games
[ARL-SYS-NOTE-83] 04 p0592 N84-13910
A study of a class of detection waveforms having nearly ideal range-Doppler ambiguity properties
[AD-A132597] 05 p0669 N84-14401
Ordering methods for sparse matrices
[AD-A133657] 05 p0735 N84-14824
Expressions for the exact state transition matrix of a nine-state target model
[AD-A132652] 05 p0735 N84-14830
Application of the density matrix multipole expansion to stark quantum beats from beam-foil-excited hydrogen atoms
[AD-A133603] 06 p0797 N84-15193
NASA/MSFC NASTRAN auxiliary I/O routines 06 p0858 N84-15592
Acoustical modes of arbitrary volumes using NASTRAN transient heat transfer RF9 06 p0859 N84-15597
Sparse Matrix Software Catalog
[AD-A133559] 06 p0898 N84-15830
The generalized Euler-Mascheroni constants 06 p0927 N84-16024
Population control of self-replicating systems: Option C 06 p0930 N84-16044
Advanced topics in robustness for multivariable control
[AD-A134606] 07 p1058 N84-16850
Eigenvector matrices of symmetric tridiagonals
[AD-A134172] 07 p1061 N84-16880
On the weak finite stochastic realization problem
[MC-BW-184/83] 07 p1067 N84-16932
Convergence of quadratic forms in p-stable random variables and theta sub p-radonifying operators
[AD-A135314] 08 p1219 N84-17959
The discrete convolution method for solving some large moment matrix equations
[AD-A135420] 08 p1226 N84-18007
La Recherche Aerospatiale, bimonthly bulletin number 1983-2, 213/March-April
[ESA-TT-817] 08 p1226 N84-18013
Analysis of adaptive differential PCM (Pulse-Code Modulator) of a stationary Gauss-Markov input
[AD-A136518] 09 p1299 N84-18482
On the representation of a basis for the null space
[AD-A136419] 09 p1375 N84-18979
The elements of the rotation matrices in terms of Rodriguez's parameters
[AD-A136550] 09 p1376 N84-18988
On ARMA (autoregressive moving average) representations for white noise in a Markovian environment
[AD-A136354] 09 p1386 N84-19054
Information content and sensitivity of matrix elements to structural changes in complex scattering system
[AD-A136600] 09 p1388 N84-19068
Linear or square array for eigenvalue and singular value decompositions?
09 p1401 N84-19150

New principle of array processing in underwater passive listening 09 p1401 N84-19152
State of the art in eigenvalue computations 09 p1401 N84-19154
The Page Matrix: An excellent tool for noise filtering of Markov parameters, order testing and realization [EUT-82-E-127] 10 p1489 N84-19735
Efficient algorithms for calculating shock spectra on general purpose computers 10 p1509 N84-19878
Efficient sparse matrix multiplication scheme for the CYBER 203 10 p1561 N84-20225
Recursive lagrangian dynamics of flexible manipulator arms via transformation matrices [AD-A137345] 10 p1574 N84-20316
Stable convex sets of matrices [AD-A136659] 10 p1574 N84-20317
Simple computable bounds for solutions of linear complementarity problems and linear programs [AD-A137949] 11 p1715 N84-21188
Decomposition and scaling-inequality for line-sum-symmetric nonnegative matrices [DE84-005639] 11 p1719 N84-21211
Generalized inverses of matrices and its applications [AD-A136274] 12 p1894 N84-22337
Can Leontief and P-matrices be rescaled positive definite [DE84-004802] 12 p1897 N84-22355
Electromagnetic coupling between a conducting body and an aperture in an infinite conducting plane [AD-A136394] 12 p1898 N84-22361
Systolic triple-matrix product calculations 12 p1906 N84-22419
Image compression: A 2-dimensional run-length coding 13 p2030 N84-23162
Singular value computations with systolic arrays [AD-A139302] 14 p2211 N84-24277
Multivariable control laws for the AFTI/F-16 [AFIT/GE/EE/83S-4] 15 p2253 N84-24531
Numerical solution of algebraic matrix Riccati equations [AD-A139929] 15 p2398 N84-25387
Modular matrix multiplication on a linear array [AD-A139852] 15 p2400 N84-25404
Stability of pumps and compressors 16 p2489 N84-25963
Unified analytical kinematic analysis and synthesis of spatial mechanisms 16 p2501 N84-26049
Deflection and vibration in shear-deformable beams and laminated composites made of bimodular and multimodular materials 16 p2503 N84-26066
Mathematical modeling of a continuum. Related modal analysis. Volume 1: Problem analysis [ESA-CR(P)-1862-VOL-1] 16 p2552 N84-26376
Environment-independent homogenized parameters for neutron diffusion in non-symmetric slabs [CISE-2117] 16 p2555 N84-26392
Matrix partitioning and EOF/principal component analysis of Antarctic Sea ice brightness temperatures [NASA-TM-83916] 17 p2721 N84-27319
STABCAR: A program for finding characteristic root systems having transcendental stability matrices [NASA-TP-2165] 17 p2751 N84-27461
Crystallogeometric analysis of compatibility of carbon-metal materials [BLL-M-35559-(5828.4)] 17 p2767 N84-27570
Multivariate analysis and its applications [AD-A140942] 18 p2925 N84-28549
Criteria for efficiency of experiments in remote sensing 19 p2978 N84-28876
An efficient approximate factorization implicit scheme for the equations of gasdynamics [NASA-TM-85957] 19 p3062 N84-29556
The approximate solution of a simple constrained search path moving target problem using moving horizon policies [AD-A142164] 19 p3069 N84-29612
Hyperspherical coordinate theory of 2 electron atomic processes [DE84-009447] 19 p3102 N84-29705
A numerical algorithm for chained aggregation and modified chained aggregation [AD-A142394] 20 p3260 N84-30822
New lasing ferroelectric material Pb5Ge3O11-Nd-3(+) 20 p3268 N84-30875
Potential application of artificial concepts to aerodynamic simulation [NASA-TM-85976] 21 p3324 N84-31093
Single and multiple fiber models for fracture of fibrous composites 21 p3356 N84-31286
Element-by-element solution procedures for nonlinear structural analysis 21 p3420 N84-31694
Automatic finite element generators 21 p3420 N84-31695
Nonnegative matrices in dynamic programming [MATH-CENTRE-TRACTS-167] 21 p3475 N84-32028
Further effects of ions in the arcs [DE84-011761] 21 p3495 N84-32149
Use of the tensor product for numerical weather prediction by the finite element method, part 1 [AD-A143273] 22 p3625 N84-32970
Distribution results for positive definite quadratic forms with repeated roots [AD-A143450] 22 p3645 N84-33115
Stability analysis of finite difference schemes for hyperbolic systems, and problems in applied and computational linear algebra [AD-A143537] 22 p3646 N84-33119
Use of the tensor product for numerical weather prediction by the finite element method, part 2 [AD-A144064] 23 p3802 N84-34108
Spatio-temporal spectral analysis by eigenstructure methods [AD-A144361] 24 p3951 N84-35017

MATRIX ANALYSIS
U MATRICES (MATHEMATICS)

MATRIX MANAGEMENT
Matrix management in DoD: An annotated bibliography [AD-A143316] 22 p3669 N84-33253

MATRIX MATERIALS
Solvent stress-cracking study for a matrix material [DE83-014075] 02 p0188 N84-11224
Fatigue of fiber composites [FFA-TN-1983-30] 03 p0348 N84-12260
Overview of composites capability at Lawrence Livermore National Laboratory [DE84-001066] 04 p0492 N84-13226
Fracture toughness of fiber reinforced concrete [AD-A133809] 05 p0692 N84-14547
Modelling particle - particle interaction at the micro scale [AD-A133969] 05 p0744 N84-14885
Formation and properties of polymers used in organic matrix composites [AD-A134502] 07 p0979 N84-16344
Characterization of selected properties for alumina-aluminum metal matrix composites [AD-A135580] 09 p1283 N84-18377
Creep of carbon yarns and composites at high temperature [AD-A136143] 12 p1790 N84-21671
High performance composites and adhesives for V/STOL aircraft [AD-A139166] 14 p2119 N84-23702
Microscopic study of the influence of impurities on interface bonding [AD-A139300] 14 p2120 N84-23705
Effect of fatigue and thermal loads on silicon carbon fiber reinforced glass matrix composites [DE84-007464] 14 p2121 N84-23710
A probabilistic theory for the strength of discontinuous fibre composites 15 p2308 N84-24848
Oxide bond energies for the calibration of matrix effects in secondary ion mass spectrometry [AD-A139633] 15 p2413 N84-25483
Multidirectional composites in ballistic and aerospace vehicles [SNIAS-832-430-102] 16 p2458 N84-25759
Improved high temperature resistant matrix resins [NASA-CR-168210] 19 p2998 N84-28995
Natural weathering of selected organic matrix composites [AD-A144091] 23 p3711 N84-33527
Pore-forming fillers for molten carbonate matrices [DE84-014509] 23 p3715 N84-33551
Critical current density of bronze-processed multifilimentary Nb-3Sn wires with magnesium addition to the matrix [DE84-014579] 23 p3719 N84-33576

MATRIX METHODS
Resin selection criteria for tough composite structures [NASA-TM-83449] 01 p0048 N84-10310
Study on damping representation related to spacecraft structural design [EMSB-18/83] 06 p0795 N84-15182
On differential sensitivity analysis of structural systems [REPT-29.4.155/NT] 07 p1017 N84-16596
Modal deformations and stresses — modal coupling methods [ED-81-343/RD] 09 p1334 N84-18712
Derivation and combination of impedance matrices for flexible satellites [ESA-STR-209] 12 p1778 N84-21604
The solution of the dynamic problem of the periodic structures by cyclosymmetric technique — large space structures 12 p1780 N84-21612
Finite element formulations for tensioned members — large space structures 12 p1780 N84-21615
Convergence of bivariate cardinal interpolator. [AD-A142894] 21 p3472 N84-32006
Applications of teleseismic body waves to shallow Earth structure 23 p3795 N84-34084

MATRIX STRESS CALCULATION
U MATRIX METHODS

MATRIX THEORY
Flow-field matrix solution for direct problem of flow along S1 relative stream surface employing non-orthogonal curvilinear coordinates and corresponding non-orthogonal velocity components [AD-A131031] 01 p0079 N84-10512
Spectral and invertibility properties of band matrices [AD-A142637] 20 p3281 N84-30831
Relationships among classes of spherical matrix distributions [AD-A143215] 22 p3648 N84-33128

MATTER (PHYSICS)
Matter antimatter domains: A possible solution to the CP domain wall problem in the early universe [NASA-TM-86100] 15 p2425 N84-25565

MATURING
U GROWTH

MAXIMA
On the distribution of the studentized maximum of equally correlated normal random variables [AD-A131529] 02 p0282 N84-11848
An iterated logarithm law result for extreme values from Gaussian sequences [AD-A129559] 03 p0427 N84-12798

MAXIMUM ENTROPY METHOD
Application of the maximum entropy method to the spectral analysis of geophysics data. Results of some preliminary tests on theoretical series [IFSI-82-1] 05 p0705 N84-14626
Maximum entropy linear prediction method [FUB-48-1982] 06 p0902 N84-15857
Rivista Tecnica Selenia, volume 6, number 3, 1983 06 p0906 N84-15887
The maximum entropy method and its application to clutter cancellation 06 p0907 N84-15890
Maximum entropy spectral analysis of total zone [INPE-2979-PRE/441] 07 p1032 N84-16694
On the maximum-entropy/autoregressive modeling of time series [NASA-TM-86057] 09 p1372 N84-18961
Computer-aided analysis of reconstructability analysis of many-dimensional relations [PB84-127935] 09 p1380 N84-19016
MEM spectrum analysis of snow densities 15 p2353 N84-25117
An entropy maximum principle and relaxation phenomena [AD-A143531] 22 p3668 N84-33250

MAXIMUM LIKELIHOOD ESTIMATES
Nonparametric estimation of the distribution of time to onset for specific diseases in survival/sacrifice experiments [DE83-013726] 01 p0112 N84-10728
Minimum distance estimation of mixture model parameters: Asymptotic results and simulation comparisons with maximum likelihood [AD-A130426] 01 p0136 N84-10889
An extremum principle for shape from contour [AD-A131321] 02 p0272 N84-11780
Nonparametric estimation by the method of sieves [AD-A131394] 02 p0284 N84-11863
Discrimination relative to measures of non-normality 03 p0393 N84-12566
Effect of noise in the three-parameter logistic model [AD-A131867] 03 p0416 N84-12721
Maximum likelihood estimation of linear dynamic system parameters [AR-002-934] 03 p0425 N84-12780
On a relation between Maximum-Likelihood classification and Minimum-Cross-Entropy classification [AD-A132237] 04 p0521 N84-13426
Estimation of the Manova eigenvalues under the random effects model [CSIR-TWISK-271] 04 p0587 N84-13877
Optimal delay estimation in a multiple sensor array having spatially correlated noise [AD-A133810] 05 p0734 N84-14820
An investigation of methods for reducing sampling error in certain IRT (Item Response Theory) procedures [AD-A133848] 05 p0739 N84-14853
On the use of marginal likelihood in time series model estimation [AD-A132628] 05 p0740 N84-14862
On the maximum likelihood estimate for logistic errors-in-variables regression models [AD-A133253] 06 p0904 N84-15868
Maximum likelihood reconstruction in emission tomography with time-of-flight information: A limited study [AD-A135061] 08 p1217 N84-17944

Estimation for infinite dimensional Ornstein-Uhlenbeck processes
[AD-A135372] 08 p1220 N84-17961
Estimation of parameters in linear structural relationships: Sensitivity to the choice of the ratio of error variances
[NASA-CR-171756] 09 p1372 N84-18958
Aspects of pattern theory
[AD-A136506] 09 p1381 N84-19022
Parallel implementation of likelihood-based estimation and detection 09 p1400 N84-19148
A systolic signal processor for recursive filtering 09 p1402 N84-19156
Correction of data-quality induced bias 09 p1409 N84-19209
Application of maximum likelihood and Monte Carlo methods to local studies of stellar velocity fields 09 p1409 N84-19211
Estimation: Comments on least squares and other topics 09 p1411 N84-19227
Correlated errors in a functional relationship: Estimation of the color term in the Period Luminosity-Color (PLC) for Long Magellanic Clouds (LMC) Cepheids 09 p1411 N84-19228
Maximum-likelihood estimation of kinematic parameters — stellar motion 09 p1412 N84-19232
Statistical problems in the determination of the cosmological deceleration parameter qo 09 p1412 N84-19233
On mean Kullback-Leibler's information maximum likelihood principle and uncertain nonlinear systems
[AD-A137222] 10 p1569 N84-20279
Estimation of two-parameter logistic item response curves
[AD-A137223] 10 p1569 N84-20280
Inspections with unknown detection probabilities
[AD-A136890] 10 p1573 N84-20310
On the estimation of spectral parameters using burst waveforms
[AD-A137932] 11 p1644 N84-20746
A practical guide to MAXLIK
[RAND/N-1914-RC-REV] 11 p1706 N84-21118
An extension of the two-parameter logistic model to the multidimensional latent space
[AD-A137769] 11 p1713 N84-21173
Parameter estimation for the four parameter beta distribution
[AD-A138062] 12 p1893 N84-22333
On the asymptotics of maximum likelihood and related estimators based on type 2 censored data
[AD-A137958] 12 p1896 N84-22348
Robust minimum distance estimation of the 3 parameter lognormal distribution
[AD-A138007] 12 p1896 N84-22349
Multi-sensor array time-delay estimation with small phase incoherences
[AD-A138867] 13 p2033 N84-23183
The luminosity function of galaxies in CO-12 13 p2071 N84-23424
Characterization and estimation of 2-dimensional ARMA (Autoregressive Moving Average) models
[AD-A139120] 14 p2211 N84-24279
Bias in nonlinear regression
[AD-A139239] 14 p2218 N84-24308
A comparison of parameter estimation results from flight test data using linear and nonlinear maximum likelihood methods
[DFVLR-FB-84-06] 16 p2449 N84-25708
An algorithm for maximum likelihood estimation using an efficient method for approximating sensitivities
[NASA-TP-2311] 16 p2451 N84-25717
The Danish method: Experience and philosophy 16 p2505 N84-26078
Estimating the trajectory of a sound source moving without acceleration using observations from a single stationary sensor
[LFD-215] 16 p2553 N84-26381
Spectral moment estimation in MST radars 17 p2696 N84-27173
An estimation problem in faulty inspection sampling, revised
[AD-A141247] 18 p2851 N84-28103
Multivariate analysis and its applications
[AD-A140942] 18 p2925 N84-28549
Use of simultaneous autoregressive models in balanced incomplete block and lattice square designs
[AD-A141661] 19 p3086 N84-29590
A maximum-likelihood approach to image segmentation by texture
[AD-A142323] 19 p3090 N84-29619
Asymptotic laws of the tests and rupture estimators in a classical statistical model
[ENST-84C001] 19 p3094 N84-29653
Flight investigation of various control inputs intended for parameter estimation
[NASA-TM-85901] 20 p3131 N84-29884
Statistical inference for reliability from stress strength relationships: The normal case
[AD-A142893] 21 p3472 N84-32005
Assessment of local influence
[AD-A143002] 21 p3473 N84-32014
Bounded-influence inference in regression
[AD-A143195] 22 p3648 N84-33126
On the estimation of the 1st-order autoregressive parameter
[AD-A144284] 24 p3950 N84-35014
Spatial fluctuations in the diffuse cosmic X-ray background
[NASA-TM-85029] 24 p3994 N84-35281

MAXIMUM PRINCIPLE
Restricted maximum principles for elastic bodies
[NASA-CR-172255] 04 p0548 N84-13609
A maximum principle for an elliptic system and applications to semilinear problems
[AD-A141600] 19 p3085 N84-29581
An entropy maximum principle and instantaneous failure statistics
[AD-A143299] 22 p3607 N84-32851

MAXIMUM USABLE FREQUENCY
Real-time update of 2 H. F. (High Frequency) channel evaluation models by oblique sounding
[AD-A137556] 11 p1643 N84-20739

MAXWELL EQUATION
The effects of channel tortuosity on electromagnetic radiations from lightning return strokes 03 p0359 N84-12335
A model for chorus associated electrostatic bursts
[NASA-CR-174489] 03 p0432 N84-12832
Fourier optics for the Maxwell field: Formalism and applications
[DE84-002845] 06 p0826 N84-15383
Theoretical aspects of laser-induced periodic surface structure formation
[AD-A134875] 08 p1164 N84-17581
Relativistic broadening near cyclotron resonance
[AD-A136224] 09 p1391 N84-19084
The Dirichlet-Neumann boundary control problem associated with Maxwell's equations in a cylindrical region
[AD-A137937] 11 p1715 N84-21184
Transient processes in an inductor system consisting of a flat coil and a multilayer conducting medium
[AD-A139053] 13 p2039 N84-23232
Mirrorless intrinsic optical bistability due to the local field correction in the Maxwell-Bloch formulation 14 p2233 N84-24397
Multi-parameter universal route to chaos in a Fabry-Perot resonator 14 p2233 N84-24399
Electromagnetic wave scattering by partially-buried metallic and dielectric objects
[AD-A140109] 15 p2322 N84-24939
Integral equations of electrodynamics in stratified media
[REPT-223] 17 p2757 N84-27501
Distributed parameter control techniques with application to adaptive control of certain flutter phenomena, November 1, 1982 to October 31, 1983
[AD-A140943] 18 p2923 N84-28540
Representation of TEM feidls in gyrotropic media by scalar Hertz potentials
[ISSN-0208-5658] 19 p3003 N84-29034
On the scattering of electromagnetic waves by perfectly conducting bodies moving in vacuum. Part 1: Formulation and reformulation of the scattering problem
[AD-A141746] 19 p3006 N84-29051

MAXWELL-BOLTZMANN DENSITY FUNCTION
The concepts of critical temperature and energy cutoff of ambient electrons in high voltage charging of spacecraft 08 p1119 N84-17275
Partial frequency redistribution in subordinate lines 15 p2421 N84-25543
Maxwell currents beneath thunderstorms 24 p3926 N84-34852
Physics of nonmagnetic relativistic thermal plasmas
[NASA-TM-86154] 24 p3965 N84-35107

MAXWELLIAN DISTRIBUTION (DENSITY)
U MAXWELL-BOLTZMANN DENSITY FUNCTION

MAYPOLE ANTENNAS
Spline-based estimation techniques for parameters in elliptic distributed systems
[NASA-TM-85439] 08 p1218 N84-17947

MBM JUNCTIONS
Squeezable electron tunneling junctions
[AD-A132884] 05 p0754 N84-14946

MCDONNELL AIRCRAFT
NT C-9 AIRCRAFT
NT DC 10 AIRCRAFT
NT F-4 AIRCRAFT

MCDONNELL DOUGLAS AIRCRAFT
NT C-9 AIRCRAFT
NT DC 10 AIRCRAFT
NT F-4 AIRCRAFT
NT F-18 AIRCRAFT

MDA
U MULTIPLE DOCKING ADAPTERS

MEADOWLANDS
U GRASSLANDS

MEAN
Likelihood ratio tests on covariance matrices and mean vectors of complex multivariate normal populations and their applications in time series
[AD-A131523] 01 p0133 N84-10674
On two-stage bayes selection procedures
[AD-A130301] 01 p0136 N84-10690
Wind-speed extremes in the Northern Hemisphere, 30 through 60 km
[AD-A132019] 03 p0410 N84-12682
Invariant means on semi-topological transformation semigroups 04 p0593 N84-13912
On the estimation of spectral parameters using burst waveforms
[AD-A137932] 11 p1644 N84-20746
Documentation for the machine-readable version of the Survey of the Astrographic Catalogue From 1 to 31 Degrees of Northern Declination (Fresneau 1963)
[NASA-TM-85569] 13 p2071 N84-23421
Residuals in nonlinear regression
[AD-A139309] 14 p2218 N84-24311
Mean depths of line formation 15 p2421 N84-25541

MEAN FREE PATH
Method and source for producing a high concentration of positively charged molecular hydrogen or deuterium ions
[DE84-011030] 20 p3295 N84-30918

MEAN TIME BETWEEN FAILURES
U MTBF

MEANDERS
Role of geomorphic thresholds in determining alluvial channel morphology
[DE84-003627] 07 p1034 N84-16708
Experimental investigation of channel meandering
[REPT-5/1983] 09 p1396 N84-18724
Characteristics of wind direction meander during onshore flow at a coastal site
[DE84-004178] 11 p1688 N84-21007
Experimental investigations of rivulet meanders — flow instability
[MPIS-5/1983] 13 p2006 N84-23015

MEASURE AND INTEGRATION
NT BINARY INTEGRATION
NT FUNCTIONAL INTEGRATION
NT J INTEGRAL
NT LEBESGUE THEOREM
NT NUMERICAL INTEGRATION
NT RUNGE-KUTTA METHOD
NT WEIGHTING FUNCTIONS
Generalized composite integration rules in the presence of a singularity
[CSIR-TWISK-272] 04 p0587 N84-13876
Critical factors and operational research in tactical fighter avionic system development 06 p0773 N84-15062
Algorithm for the detection and integration of highly oscillatory ordinary differential equations using a generalized unified modifiec divided difference representation
[DE84-003585] 08 p1222 N84-17978
Form coefficient for the field of a superconducting synchronous machine
[AD-A134751] 08 p1226 N84-18010
A systolic VLSI design of a pipeline Reed-Solomon decoder 10 p1474 N84-19631
A generalized class of certainty and information measures
[NLR-MP-82036-U] 15 p2397 N84-25379
Coherent integration 17 p2695 N84-27162
A note on the use of coherent integration in periodogram analysis of MST rader signals 17 p2695 N84-27163
Supremum convolutions and Greenian potentials in a special case
[CTH-MATH-1983-31] 17 p2759 N84-27522
The generation of a mass point model from surface gravity data
[AD-A142327] 19 p3054 N84-29382
The S-9 ephemeride of Phoebe with an analysis pf the observation 19 p3119 N84-29826
A note about Lie series and some applications 19 p3121 N84-29836
On point processes — probability theory
[MATH-CENTRE-TRACTS-165] 21 p3475 N84-32025
Algorithmic integration of elementary transcendental functions on an algebraic curve 22 p3636 N84-33052

MEASURE THEORY
U MEASURE AND INTEGRATION
MEASUREMENT
NBS (National Bureau of Standards): Materials measurements — space processing experiments
[NASA-CR-173162] 08 p1136 N84-17384
Flight measurement and analysis of AAFE RADSCAT wind speed signature of the ocean
[NASA-TM-85646] 08 p1194 N84-17784
Measurement capabilities of the Bendix Metrology Organization
[DE84-005876] 11 p1661 N84-20834
Measurement of heavy cosmic-ray nuclei on LDEF (M0002-2) 15 p2275 N84-24864
Comparison of the force scale up to 1 kN between the Physikalisch-Technischen Bundesanstalt (PTB), West Germany and the Technical Research Centre of Finland (VTT)
[VTT-229] 15 p2336 N84-25021
In-flight measurement of pressure distribution over T-38 student canopy
[AD-P003207] 17 p2593 N84-26620
Measurement of residual strains and stresses in transparent materials
[AD-P003209] 17 p2593 N84-26622
Effects of aircraft and flight parameters on energy-efficient profile descents in time-based metered traffic
[NASA-CR-172338] 17 p2604 N84-26685
Automatic measurement of bandwidth of microwave resonators 17 p2638 N84-26860
Stochastic quantization: Stabilizing quantum models
[REPT-80] 20 p3312 N84-31032
Automatic digital battery cell capacitance measurements
[AD-A143143] 21 p3092 N84-31523
MEASURING
U MEASUREMENT
MEASURING INSTRUMENTS
NT ACCELEROMETERS
NT ALTIMETERS
NT ANALYZERS
NT ANEMOMETERS
NT APPROACH INDICATORS
NT ATOMIC CLOCKS
NT ATTITUDE INDICATORS
NT BALLOON-BORNE INSTRUMENTS
NT BAROMETERS
NT BATHYMETERS
NT BATHYTHERMOGRAPHS
NT BAYARD-ALPERT IONIZATION GAGES
NT BOLOMETERS
NT CALORIMETERS
NT CHRONOMETERS
NT CLOCKS
NT CLOUD HEIGHT INDICATORS
NT COMPARATORS
NT CONDUCTIVITY METERS
NT COUNTERS
NT CYCLOTRON RESONANCE DEVICES
NT DENSIMETERS
NT DENSITOMETERS
NT DICKE RADIOMETERS
NT DIFFRACTOMETERS
NT DISTANCE MEASURING EQUIPMENT
NT DOSIMETERS
NT DROPSONDES
NT DYNAMOMETERS
NT ELECTROMETERS
NT ELECTRON COUNTERS
NT ELECTRON PROBES
NT ELECTROPHOTOMETERS
NT ELECTROSTATIC PROBES
NT ELLIPSOMETERS
NT ENGINE ANALYZERS
NT ENGINE MONITORING INSTRUMENTS
NT ERGOMETERS
NT EXTENSOMETERS
NT FABRY-PEROT INTERFEROMETERS
NT FABRY-PEROT SPECTROMETERS
NT FLAME PROBES
NT FLIGHT RECORDERS
NT FLIR DETECTORS
NT FLOW DIRECTION INDICATORS
NT FLOWMETERS
NT FUEL GAGES
NT GAMMA RAY SPECTROMETERS
NT GAS METERS
NT GEODIMETERS
NT GERDIEN CONDENSERS
NT GONIOMETERS
NT GRAVIMETERS
NT GRAVITY GRADIOMETERS
NT GYROCOMPASSES
NT HIGH DISPERSION SPECTROGRAPHS
NT HODOSCOPES
NT HOT-FILM ANEMOMETERS
NT HOT-WIRE ANEMOMETERS
NT HOT-WIRE FLOWMETERS
NT HYDROMETERS
NT HYGROMETERS
NT INDICATING INSTRUMENTS
NT INFRARED DETECTORS
NT INFRARED INSTRUMENTS
NT INFRARED RADIOMETERS
NT INFRARED SCANNERS
NT INFRARED SPECTROMETERS
NT INFRARED SPECTROPHOTOMETERS
NT INTERFEROMETERS
NT ION PROBES
NT ION TRAPS (INSTRUMENTATION)
NT IONOSONDES
NT KNUDSEN GAGES
NT LASER ALTIMETERS
NT LASER ANEMOMETERS
NT LASER DOPPLER VELOCIMETERS
NT LASER RANGE FINDERS
NT LASER SPECTROMETERS
NT MACH-ZEHNDER INTERFEROMETERS
NT MAGNETIC PROBES
NT MAGNETOMETERS
NT MASS SPECTROMETERS
NT METEOROLOGICAL INSTRUMENTS
NT MICHELSON INTERFEROMETERS
NT MICRODENSITOMETERS
NT MICROMETERS
NT MICROWAVE INTERFEROMETERS
NT MICROWAVE PLASMA PROBES
NT MICROWAVE PROBES
NT MICROWAVE RADIOMETERS
NT MICROWAVE SENSORS
NT MICROWAVE SPECTROMETERS
NT MOISTURE METERS
NT MONOCHROMATORS
NT MULTISPECTRAL BAND SCANNERS
NT NEPHELOMETERS
NT NEUTRON COUNTERS
NT NEUTRON SPECTROMETERS
NT NOISE METERS
NT OCULOMETERS
NT OMEGA NAVIGATION SYSTEM
NT OPTICAL MEASURING INSTRUMENTS
NT OPTICAL SCANNERS
NT PASSIVE L-BAND RADIOMETERS
NT PHOTOMETERS
NT PIEZOELECTRIC GAGES
NT PIEZOMETERS
NT PLAN POSITION INDICATORS
NT PLASMA PROBES
NT POLARIMETERS
NT POSITION INDICATORS
NT POTENTIOMETERS (INSTRUMENTS)
NT PRESSURE GAGES
NT PROFILOMETERS
NT PROPORTIONAL COUNTERS
NT PSYCHROMETERS
NT PYRANOMETERS
NT PYROHELIOMETERS
NT PYROMETERS
NT QUANTUM COUNTERS
NT RADIATION COUNTERS
NT RADIATION DETECTORS
NT RADIATION MEASURING INSTRUMENTS
NT RADIO ALTIMETERS
NT RADIO DIRECTION FINDERS
NT RADIO FREQUENCY IMPEDANCE PROBES
NT RADIO INTERFEROMETERS
NT RADIOMETERS
NT RADIOSONDES
NT RAIN GAGES
NT RANGE FINDERS
NT RAWINSONDES
NT REFLECTOMETERS
NT REFRACTOMETERS
NT RESISTANCE THERMOMETERS
NT RHEOMETERS
NT SATELLITE-BORNE INSTRUMENTS
NT SCATTEROMETERS
NT SCINTILLATION COUNTERS
NT SEISMOGRAPHS
NT SIGNAL ANALYZERS
NT SILICON RADIATION DETECTORS
NT SMOKE DETECTORS
NT SOLAR SPECTROMETERS
NT SONDES
NT SPARK CHAMBERS
NT SPECTROHELIOGRAPHS
NT SPECTROMETERS
NT SPECTROPHOTOMETERS
NT SPECTRORADIOMETERS
NT STRAIN GAGE BALANCES
NT STRAIN GAGES
NT TACHOMETERS
NT TEMPERATURE MEASURING INSTRUMENTS
NT TEMPERATURE PROBES
NT THEODOLITES
NT THERMOCOUPLE PYROMETERS
NT THERMOMETERS
NT TILTMETERS
NT TIME OF FLIGHT SPECTROMETERS
NT TIMING DEVICES
NT TRANSMISSOMETERS
NT ULTRASONIC DENSIMETERS
NT ULTRAVIOLET SPECTROMETERS
NT VIBRATION METERS
NT VISCOMETERS
NT VOLTMETERS
NT WATTMETERS
NT WEATHER DATA RECORDERS
NT WEIGHT INDICATORS
Multi-directional gaging probe
[DE83-012855] 01 p0085 N84-10551
Journal of Research of the National Bureau of Standards, volume 88, number 1, January - February 1983
[PB83-226704] 01 p0160 N84-11055
Electronic measuring instruments for mixtures of fluids
[PTB-ME-40] 02 p0225 N84-11474
Single-mode fiber-optic sensor for high currents
[DE83-014163] 02 p0295 N84-11933
Visual accommodation trainer-tester
[NASA-CASE-ARC-11426-1] 03 p0338 N84-12193
Design and operation of a light-scattering device for sizing and velocimetry of large droplets
[DE83-902641] 03 p0377 N84-12456
Evaluation of the crack gage as an advanced individual aircraft tracking concept 03 p0391 N84-12551
Automated thermal conductivity probe and applications to powders
[DE84-000451] 04 p0508 N84-13328
Technology assessment: 1983 forecast of future test technology requirements
[AD-A132421] 04 p0623 N84-14107
Relationship of Benkelman beam deflection as measured by Florida method to those measured by AASHTO method T-256-77, P-13-79
[PB83-252973] 05 p0894 N84-14557
Measurement of multimode optical fiber attenuation
[PB83-151207] 05 p0748 N84-14913
The measurement of surface texture and its correlation with function 06 p0814 N84-15299
Telemetered seismic network--'System 768'
[AD-A133143] 07 p0983 N84-16245
Advanced high temperature heat flux sensors
[NASA-TM-83526] 07 p1001 N84-16493
Quality assurance of heat-fused polyethylene plastic pipe joints, phase 2
[PB84-104942] 08 p1168 N84-17608
Space Station needs, attributes and architectural options. Volume 2, book 1, part 4: Payload element mission data sheets
[NASA-CR-173315] 09 p1270 N84-18299
Prototype chemiluminescent analyzer for measurement of hydrazines and nitrogen dioxide
[AD-A135622] 09 p1279 N84-18354
Water resources data for Idaho, water year 1982. Volume 2: Upper Columbia River Basin and Snake River Basin below King Hill
[PB84-118488] 09 p1338 N84-18741
Evaluation of the crack growth gage concept as an individual aircraft tracking device, volume 1
[AD-A136932] 10 p1428 N84-19340
Evaluation of the crack growth gage concept as an individual aircraft tracking device, volume 2
[AD-A136933] 10 p1428 N84-19341
Flexible automated waveform recorder data acquisition program
[DE84-005553] 11 p1709 N84-21141
Evaluative report on the National Engineering Laboratory, National Bureau of Standards, fiscal year 1983
[PB84-129873] 11 p1747 N84-21398
Simultaneous multipoint measurements of density gradients and temperature in a flame
[DE84-006832] 12 p1794 N84-21697
Device and method for frictionally testing materials for ignitability
[NASA-CASE-MSC-20622-1] 13 p1937 N84-22596
An optical surface tracking device which determines a solid propellant's burning rate 13 p1944 N84-22638
Insitu measurement of burning rate 13 p1944 N84-22639
Measurement of solid propellant burning rates employing microwave techniques 13 p1944 N84-22640
Electronic scanning pressure measuring system and transducer package
[NASA-CASE-ARC-11361-1] 13 p1993 N84-22934

Multi-sensor array time-delay estimation with small phase incoherences
[AD-A138667] 13 p2033 N84-23183
Wind abrasion on Venus: A means for experimental investigations 13 p2076 N84-23455
Vortical flow exploration methods developed for the F1 wind tunnel 14 p2099 N84-23598
An improved ion drift meter
[AD-A140043] 15 p2283 N84-24707
Cold regions instrumentation considerations
[AD-A139805] 15 p2336 N84-25024
Retroreflectance MAP (Measurement Assurance Program) service for coefficient of luminous intensity
[PB84-164938] 15 p2408 N84-25457
STS-3/OSS-1 Plasma Diagnostics Package (PDP) measurements of Orbiter-generated V x B potentials and electrostatic noise
[AD-P002105] 16 p2522 N84-26191
Electron beam experiments and other observations from STS-3
[AD-P002106] 16 p2522 N84-26192
Laboratory and space measurements of materials
[AD-P002113] 16 p2523 N84-26199
USSR report: Electronics and electrical engineering
[JPRS-UEE-84-007] 17 p2630 N84-26821
A survey of gas-side fouling measuring devices
[NASA-CR-173734] 18 p2896 N84-28003
Diode-laser gas analyzer for geophysical studies 18 p2859 N84-28155
Recent solar measurements results at the parabolic dish test site 18 p2875 N84-28258
Tactical visibility meter
[AD-A141286] 18 p2890 N84-28347
Apparatus for measuring charged particle beam
[NASA-CASE-MFS-25641-1] 18 p2929 N84-28575
Stabilized luminous arcs (rotating arcs) in nitrogen and carbon dioxide at pressures of one to forty atmospheres
[NASA-TM-77506] 19 p3012 N84-29095
Accommodative amplitude and speed measuring instrument
[AD-D011032] 19 p3071 N84-29484
Comparison of icing cloud instruments for 1982-1983 icing season flight program
[NASA-TM-83569] 20 p3129 N84-29870
Measurements of dissolved gases at Corps of Engineers projects
[AD-A142727] 20 p3170 N84-30130
Microprocessor automation for the Dynaflect Deflection Measuring System
[PB84-180413] 20 p3171 N84-30135
Friction in low speed lubricated rolling and sliding contacts
[VTT-16] 20 p3199 N84-30318
Instrumenting and interpreting the time-varying response of structural systems
[DE84-009067] 20 p3203 N84-30346
Implementation strategy 20 p3219 N84-30453
Thermoacoustic couple
[DE84-011296] 20 p3291 N84-30895
Determination of evaporation rates of organic solvents by thin-film evaporometer
[DE84-012306] 21 p3360 N84-31313
On-site measurement of the speed of corrosion of a metal in water
[BLL-T6310/BG/WH770/84] 22 p3552 N84-32488
Rectangular heat source on a semi-infinite solid: An analysis of a thin film heat flux gage
[DE84-012234] 22 p3599 N84-32796
Method of measuring optical properties of a transparency
[AD-D011117] 22 p3658 N84-33188
NASA metrology information system: A NEMS subsystem 22 p3672 N84-33279
Langley's views on NEMS 22 p3672 N84-33280
Three-axis gaging probe
[DE84-015087] 23 p3752 N84-33784
Method and apparatus for measuring shear modulus and viscosity of a monomolecular film
[DE84-014502] 23 p3761 N84-33841
Non-imaging remote sensing data 23 p3842 N84-34371
Activities of the Technical Physics Service of the Dutch Central Organization for Scientific Research, past and present 23 p3845 N84-34393
Parameter measurement methods for interfacing hydraulic systems with microelectronic instruments and controllers
[AD-A144208] 24 p3902 N84-34710
Inventions, new technologies approved by Academy of Sciences: Invention using ultrasound 24 p3961 N84-35082
Device for measuring oxygen 24 p3961 N84-35083

MECHANICAL DEVICES
Robotics: An introduction to today's robot and future trends
[AD-A132070] 03 p0423 N84-12768
Methods of optimizing parameters of mechanisms performing repeated brief operations
[BLL-M-35352] 04 p0543 N84-13575
Modelling of submerged cable dynamics
[AD-A132495] 04 p0544 N84-13580
Mechanical fastener
[NASA-CASE-LAR-12738-2] 06 p0795 N84-15180
Clamp-mount device
[NASA-CASE-MFS-25510-1] 07 p1011 N84-16560
Theories of kinematic analysis and synthesis of spatial mechanisms containing lower and higher pairs
[AD-A134519] 07 p1016 N84-16594
First European Space Mechanics and Tribology Symposium
[ESA-SP-196] 09 p1294 N84-18454
Numerical investigation of stress-strain state of composite working tool assembled with negative allowance
[BLL-M-35379] 09 p1328 N84-18672
Mechanical systems conditioning monitoring technology working group report IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability Maintainability) study
[AD-A137524] 10 p1504 N84-19834
Mechanical signature analysis 10 p1505 N84-19843
Model reference adaptive control of mechanical manipulators 10 p1555 N84-20194
Tensile testing apparatus
[NASA-CASE-LAR-13243-1] 11 p1656 N84-20804
Self-indexing latch system
[NASA-CASE-MFS-25956-1] 11 p1664 N84-20860
An intersection algorithm for moving parts 12 p1871 N84-22193
The conceptual design of mechanisms and mechanical systems 15 p2311 N84-24869
Automated dynamic analysis of mechanisms with flexible links 15 p2311 N84-24870
Review of preliminary analysis techniques for tension structures
[AD-A139853] 15 p2350 N84-25110
SNIAS's experience and work in the geometric modeling area
[SNIAS-832-111-107] 15 p2391 N84-25349
Novel method of assembling large multicomponent machine sets 17 p2641 N84-26899
Method and apparatus for gripping uniaxial fibrous composite materials
[NASA-CASE-LEW-13758-1] 18 p2808 N84-27829
Variable pulse width piezoelectric ultrasonic transducer driver
[AERE-R-11071] 18 p2845 N84-28064
Stores weight and inertia system update: Cable attachment redesign, flexible length parameter calibration, data sheet revision
[AD-A141087] 19 p2963 N84-28781
Spartan Release Engagement Mechanism (REM) stress and fracture analysis
[NASA-CR-173779] 19 p3034 N84-29244
Flexure hinge
[PB84-178557] 20 p3199 N84-30319
Artificial intelligence and robotics
[AD-A142488] 20 p3278 N84-30810
Regulation of mechanical characteristic of iron-powder electromagnetic brake 21 p3379 N84-31444
Lubrication of machine elements
[NASA-RP-1126] 21 p3413 N84-31640

MECHANICAL DRAWINGS
U ENGINEERING DRAWINGS

MECHANICAL DRIVES
NT HELICOPTER PROPELLER DRIVE
NT PROPELLER DRIVE
NT TRANSMISSIONS (MACHINE ELEMENTS)
The FASTBUS segment driver microcode description
[DE83-017972] 04 p0523 N84-13437
Flight evaluation of a linear optical displacement transducer
[AD-A132638] 05 p0630 N84-14141
High power bogie for 350 km/h. Design and definition — locomotives
[MBB-UD-376-OE] 05 p0687 N84-14518
Compact Claude cycle refrigerator for laboratory use 06 p0819 N84-15338
Life test performance of a Philips rhombic-drive refrigerator with bellows seals 06 p0819 N84-15341
Electrical-shock prevention. Volume 3: Fault protection for motion-drive equipment
[PB84-102961] 06 p1206 N84-17867
Dynamic analysis of a Bearing and Power Transfer Assembly (BAPTA) solar generator system 09 p1294 N84-18456
Design and development of an advanced solar array drive mechanism 09 p1294 N84-18457
Space telescope: Solar array primary development mechanism 09 p1294 N84-18458
Spacelab scientific airlock 09 p1295 N84-18460
Acoustic responses of coupled fluid-structure system by acoustic-structural analogy 10 p1510 N84-19883
Frictional hold of various sheave configurations on synthetic ropes
[AD-A139606] 15 p2343 N84-25087
Actuator development for the Instrument Pointing System (IPS) 15 p2347 N84-25080
Design and test of a low-temperature liner driver/rate controller 15 p2347 N84-25083
Helical rotary screw expanders to generate electricity from geothermal brines 15 p2430 N84-25596
An advanced pitch change mechanism incorporating a hybrid traction drive
[NASA-TM-83709] 16 p2433 N84-25605
Dynamics of early planetary gear trains
[NASA-CR-3793] 16 p2498 N84-26027
An analysis of traction drive torsional stiffness
[NASA-TM-83712] 17 p2675 N84-27043
Prediction and analysis of variable reluctance stepmotor drive systems
[NLR-TR-81139-U] 20 p3182 N84-30216
Automotive Stirling engine development program
[NASA-CR-174622] 21 p3521 N84-32305
Comparison between two Lysholm engines
[DE84-013696] 22 p3564 N84-32571
Constant speed drive with compensation using differential gears
[AD-D011156] 23 p3756 N84-33812
Simultaneous thermal vacuum testing of GPS drives for NavStar 24 p3862 N84-34473
Electronic 4-wheel drive control device
[NASA-TM-77618] 24 p3910 N84-34764

MECHANICAL ENGINEERING
Investigation in the application of computer-aided process-planning techniques for mechanical engineering at Bendix Kansas City
[DE84-000302] 04 p0582 N84-13842
A summary of the Naval Postgraduate School Research Program
[AD-A132871] 05 p0766 N84-15024
Validated Engineering Data Index, 1983 - 1984 12 p1804 N84-21758
Mechanical engineering research program
[DE84-001085] 12 p1823 N84-21884
CIM's bridge from CADD to CAM: Data management requirements for manufacturing engineering 12 p1889 N84-22301
Bibliography of technical publications and papers, October 1982 - September 1983
[AD-A139907] 13 p2057 N84-23403
Industry official on progress in Soviet robotics program 14 p2155 N84-23915
A designer's perception of computer-aided design 15 p2312 N84-24871
Research activities in advanced techniques 16 p2565 N84-26456
USSR report: Engineering and equipment
[JPRS-UEQ-84-003] 17 p2640 N84-26895
The initial mechanical design of hot gas turbine blading using limited information
[PNR-90183] 19 p3032 N84-29234
Summaries of FY 1983 engineering research
[DOE/ER-0158/1] 23 p3727 N84-33614
Commentary on Philips R and D strategy, policies, major efforts 24 p3892 N84-34847
OECD study shows Sweden has highest robot-worker ratio 24 p3892 N84-34848
Scientific research abstracts in Republic of China, 1983 24 p3955 N84-35038

MECHANICAL IMPEDANCE
Derivation and combination of impedance matrices for flexible satellites
[ESA-STR-209] 12 p1778 N84-21604
Application of electrochemical and mechanical impedance measurements to corrosion induced failures
[AD-A142468] 20 p3153 N84-30021

MECHANICAL MEASUREMENT
NT DISPLACEMENT MEASUREMENT
NT DRAG MEASUREMENT
NT FLOW MEASUREMENT
NT FRICTION MEASUREMENT
NT PRESSURE MEASUREMENT
NT STRESS MEASUREMENT
NT THRUST MEASUREMENT
NT VELOCITY MEASUREMENT
NT VIBRATION MEASUREMENT
NT WIND MEASUREMENT
NT WIND VELOCITY MEASUREMENT
NT X RAY STRESS MEASUREMENT

Geotechnical properties of deep sea sediments: A critical review of measurement techniques
[IOS-134] 02 p0258 N84-11689
Absolute determination of stress in textured materials
[DE83-018083] 04 p0550 N84-13621
Development of a simple wind speedometer for application in countries of the developing world
[BMFT-FB-T-83-310] 15 p2336 N84-25022
Mechanical behavior of carbon-carbon composites
[NASA-CR-174767] 24 p3878 N84-34575

MECHANICAL OSCILLATORS
NT GYROSCOPIC PENDULUMS
NT PENDULUMS
Double parametric oscillator — gravitational antennas
[IFSI-83-1] 05 p0677 N84-14451
JDF-1 small light-weight electric eddy current oscillator
[AD-A137572] 11 p1646 N84-20761
Torsional vibration of crankshafts in reciprocating machines 12 p1822 N84-21876

MECHANICAL PROPERTIES
NT ABRASION RESISTANCE
NT AEROELASTICITY
NT AEROTHERMOELASTICITY
NT ANELASTICITY
NT BRITTLENESS
NT BULK MODULUS
NT COLD STRENGTH
NT COMPRESSIBILITY
NT COMPRESSIVE STRENGTH
NT CREEP PROPERTIES
NT CREEP RUPTURE STRENGTH
NT CREEP STRENGTH
NT DIMENSIONAL STABILITY
NT DUCTILITY
NT EARTHQUAKE RESISTANCE
NT ELASTIC PROPERTIES
NT ELASTOPLASTICITY
NT ELECTROSTRICTION
NT FATIGUE LIFE
NT FIBER STRENGTH
NT FLEXIBILITY
NT FRACTURE STRENGTH
NT HARDNESS
NT HIGH STRENGTH
NT HYDROELASTICITY
NT IMPACT STRENGTH
NT MAGNETOSTRICTION
NT MICROHARDNESS
NT MODULUS OF ELASTICITY
NT NOTCH SENSITIVITY
NT NOTCH STRENGTH
NT PHOTOELASTICITY
NT PIEZOELECTRICITY
NT PLASTIC PROPERTIES
NT POISSON RATIO
NT ROCKWELL HARDNESS
NT SHEAR CREEP
NT SHEAR PROPERTIES
NT SHEAR STRENGTH
NT SHELL STABILITY
NT STIFFNESS
NT STRESS CYCLES
NT STRESS RATIO
NT STRESS RELAXATION
NT STRUCTURAL STABILITY
NT SUPERPLASTICITY
NT TENSILE CREEP
NT TENSILE PROPERTIES
NT TENSILE STRENGTH
NT THERMAL RESISTANCE
NT THERMOELASTICITY
NT THERMOPLASTICITY
NT THERMOVISCOELASTICITY
NT TOUGHNESS
NT VISCOELASTICITY
NT VISCOPLASTICITY
NT WELD STRENGTH
NT YIELD POINT
NT YIELD STRENGTH
Characterization, Analysis and Significance of Defects in Composite Materials
[AGARD-CP-355] 01 p0032 N84-10203
Effect of point defects on mechanical properties of metals
[DE83-014969] 01 p0046 N84-10297
Short-term mechanical properties of high-strength light-weight concrete 01 p0059 N84-10387
Fluoroether modified epoxy composites
[NASA-CASE-ARC-11418-1] 02 p0187 N84-11213
The effect of moisture on the properties of an aramid/epoxy composite
[AD-A131132] 02 p0188 N84-11222
Microstructure and properties of P/M tool steels
[AD-A130680] 02 p0194 N84-11259
Mechanical properties of bis-phenol-A polysulfone and acetylene terminated bis-phenol-A blend
[AD-A131277] 02 p0200 N84-11303
Characterization of conservatism in mechanical shock testing of structures
[DE83-013524] 02 p0232 N84-11521
MAZE: An input generator for DYNA2D and NIKE2D
[DE83-016415] 02 p0274 N84-11795
Mechanical property evaluation of P/M (Powder-Metallurgy) aluminum 7090-T7E71 plate
[AD-A132058] 03 p0352 N84-12290
Mechanical behavior of sea ice
[AD-A131852] 03 p0401 N84-12619
Modelling the behavior of materials
[DE84-000154] 04 p0545 N84-13588
Approximate solution of the problem of thermoelasticity of a sphere with variable properties
[BLL-M-35369-(5828.4F)] 04 p0547 N84-13606
Characteristics of various types of ablative materials with associated naval applications
[AD-A133882] 05 p0645 N84-14243
Effects of cobalt in nickel-base superalloys
[NASA-CR-168306] 05 p0652 N84-14267
Mechanical-property characterization of an electroslag-cast valve body of CF8M composition
[DE84-002253] 05 p0655 N84-14309
Improved moisture resistance of fiber reinforced plastics
[AD-A132762] 05 p0659 N84-14333
Mechanical response of materials with physical defects. Part 3. A material testing program for size and rate effects
[AD-A133762] 05 p0693 N84-14548
Research and technology at the Kennedy Space Center
[NASA-TM-83092] 05 p0759 N84-14975
Metals and ceramics research: Processing, properties, and applications
[ORNL-5943] 06 p0796 N84-15187
Production and characterization of beta-silicon carbide and alpha-silicon nitride whiskers for ceramic matrix composites
[LA-9650-MS] 06 p0797 N84-15197
Powder metallurgy
[BLL-M-35271-(5828.4)] 06 p0803 N84-15231
Stability of mechanical properties of cold-drawn rolled metal with high-temperature thermomechanical treatment
[BLL-M-35292-(5828.4)] 06 p0803 N84-15233
Diffusion films produced by heat treatment of electroplated coatings
[BLL-OA-TRANS-3082-(6196.3)] 06 p0804 N84-15237
The influence of the environment on the mechanical characteristics of composite materials: Design considerations — polymer matrix composites
[INTA-INFORME-I-1/221/720/83047] 06 p0811 N84-15281
Crazing and fatigue behaviour of one and two phase polymers 06 p0811 N84-15282
Utilization of low temperatures in electrical machines
[AD-A133325] 06 p0830 N84-15399
Mechanical property characterization of F-100/934 graphite-epoxy composite material 06 p0928 N84-16031
Mechanical properties of types 304 and 316 stainless steel after long-term aging and exposure
[DE84-003325] 07 p0976 N84-16327
Silicon nitride: A ceramic material with outstanding resistance to thermal shock and corrosion
[NASA-TM-77067] 07 p0978 N84-16336
Crack healing in polymers
[AD-A134488] 07 p0979 N84-16343
Low-cost stator material for M734 alternators
[AD-A126804] 07 p0997 N84-16464
Properties of solutions of ordinary and partial differential equations describing the motion of mechanical systems
[ISSN-0208-5658] 07 p1058 N84-16852
Effects of high energy radiation on the mechanical properties of epoxy graphite fiber reinforced composites
[NASA-CR-173293] 08 p1122 N84-17292
Composite structural materials
[NASA-CR-173259] 08 p1122 N84-17293
Effects of JP-4 fuel on Graphite/Epoxy composites
[AD-A135416] 08 p1122 N84-17296
Heat treatment and residual austenite
[CSIR-TRANS-1704] 08 p1130 N84-17349
Influence of cobalt, tantalum and tungsten on the high temperature mechanical properties of single crystal nickel-base superalloys
[NASA-TM-83479] 08 p1131 N84-17355
The change of the mechanical properties of steel strip in processing lines
[BMFT-FB-T-83-178] 08 p1135 N84-17383
Specifications, tolerances, and other technical requirements for weighing and measuring devices
[PB84-125784] 08 p1163 N84-17572
Investigation of the FAA overlay design procedures for rigid pavements
[AD-A135317] 09 p1259 N84-18222
Determination of the effect of strain rate on the mechanical properties of graphite-epoxy laminates
[AD-A136334] 09 p1276 N84-18328
Plasma modification of graphite fibers and its effect on composite properties
[AD-A136558] 09 p1276 N84-18329
Hygrothermal effects in continuous fibre reinforced composites. Part 3: Mechanical properties 1 - static tests
[AD-A135767] 09 p1276 N84-18332
Mechanical properties of Mn-Al-C system alloys
[BLL-M-35432] 09 p1280 N84-18362
Effects of variations in heat treatment on the mechanical properties and microstructure of ASTM A710 Grade A Class 3 steel
[AD-A136328] 09 p1282 N84-18371
Alloy development, processing and characterization of devitrified titanium base microcrystalline alloys
[AD-A136589] 09 p1282 N84-18374
Characterization of selected properties for alumina-aluminum metal matrix composites
[AD-A135580] 09 p1283 N84-18377
Synthesis and properties of elevated temperature P/M aluminum alloys
[AD-A135956] 09 p1283 N84-18379
Effect of transformed beta morphology and other structural features on mechanical properties in Ti-6Al-4V
[AD-A136028] 09 p1283 N84-18382
Characteristics of the mechanical properties and the fractures of an alpha beta titanium alloy
[AD-A136144] 09 p1284 N84-18386
Basic research on macromolecular dynamics
[PB84-123538] 09 p1289 N84-18417
Strength of anchor bolts in masonry
[PB84-111160] 09 p1297 N84-18479
Metallurgical aspects and mechanical properties of weld metal in automatic submerged arc welding
[BLL-RISLEY-TR-4875-(9091.9F)] 09 p1324 N84-18650
Computer-aided analysis of concrete strength test results
[AD-A136265] 09 p1330 N84-18686
Rotordynamic characteristics of the HPOTP (High Pressure Oxygen Turbopump) of the SSME (Space Shuttle Main Engine)
[NASA-CR-170987] 10 p1438 N84-19389
Contribution to the properties of carbon fiber reinforced composites — structural mechanics
[DFVLR-MITT-83-16] 10 p1452 N84-19480
Strength and thermal shock resistance of SiC-BN composites
[AD-A136891] 10 p1452 N84-19485
Effect of temperature on some of the mechanical properties of Cu-10Ni-6Sn spinodal alloy
[DE84-004432] 10 p1461 N84-19538
TICA (Torsion Impregnated Cloth Analysis) study of high-temperature thermoplastics
[AD-A137048] 10 p1468 N84-19586
Transactions of the Industrial Institute of Electronics (selected articles)
[AD-A137204] 10 p1485 N84-19711
High pressure oxygen turbopump bearing cage stability analyses — space shuttle main engine
[NASA-CR-170991] 10 p1502 N84-19815
Impact loading in filamentary structural composites 10 p1506 N84-19857
Preparation and properties of polyurethane and polyurethaneurea elastomers from methylene bis(4-cyclohexylisocyanate)
[AD-A137645] 11 p1637 N84-20704
Design aspects of loose buffer tube fiber optics cable 11 p1722 N84-21234
Optical and mechanical properties of single mode cables at 1300 nm 11 p1726 N84-21258
Thermal properties of loose tube secondary coated optical fibres experimentally discussed by a relative light pulse delay technique 11 p1727 N84-21269
Proceedings of the Conference on High Temperature Solid Oxide Electrolytes. Volume 2: Cation conductors
[BNL-51728-VOL-2] 11 p1742 N84-21368
Acta aeronautica et astronautica sinica (selected articles)
[AD-A138531] 12 p1764 N84-21506
Critical and strategic materials: Proceedings of the Laboratory Study Group Meeting
[CONF-830474] 12 p1783 N84-21631
USSR report: Materials science and metallurgy
[JPRS-UMS-84-001] 12 p1783 N84-21633

Influence of aging in martensite state on mechanical properties of Cu-Al-Zn system Beta-alloy
12 p1784 N84-21641
Axial test methods development for 3-D cylindrical-weave carbon-carbon composite materials
[AD-A138221] 12 p1790 N84-21672
Effect of hydrogen on the mechanical properties of a U5.7Nb alloy
[DE84-006679] 12 p1799 N84-21732
Overview of zirconia with respect to gas turbine applications
[NASA-TP-2286] 12 p1801 N84-21740
The relationship of engineering properties to the molecular structure of polymeric materials: Damage accumulation processes
[AD-A138411] 12 p1801 N84-21745
Assessment of ceramic materials technology for heat exchangers
[DE84-005748] 12 p1802 N84-21748
Quality and reliability of steel wire ropes
[BLL-M-35461-(5828.4)] 12 p1821 N84-21872
Materials properties data base computerization
12 p1889 N84-22303
Britain's ICI develops new easy-to-shape composites
14 p2116 N84-23695
An investigation of the structure and high temperature mechanical properties of oxide dispersion strengthened alloys
[AD-A139359] 14 p2128 N84-23756
Physical properties and structure of ion-containing polymers
[AD-A139137] 14 p2129 N84-23766
Effect of pressure on the mechanical properties of polymers, part 3
[DE84-006853] 14 p2130 N84-23770
Nature of the surface and its effect on solid-state interactions 14 p2152 N84-23894
The conjoint action of high and low cycle fatigue
[AD-A139205] 14 p2158 N84-23927
Influence of extended exposure in space on mechanical properties of high-toughness graphite-epoxy composite material (A0019) 15 p2271 N84-24837
The mechanical properties of carbon fibre with glass fibre reinforced plastics 15 p2284 N84-24710
Study on the effects of niobium, vanadium, titanium and/or rare Earth metals on the properties and processing of high-tensile, weldable structural steels
[BMFT-FB-T-83-318] 15 p2295 N84-24775
The impact resistance of SiC and other mechanical properties of SiC and Si3N4
[NASA-CR-165325] 15 p2301 N84-24809
An investigation into the injection molding of PMR-15 polyimide
[NASA-CR-173550] 15 p2301 N84-24810
Development of capsular adhesive systems and evaluation of their stability
[AD-A140063] 15 p2302 N84-24816
Simulation of heat transfer and fluid flow in the solidification of alloys 15 p2306 N84-24836
Status of understanding for gear materials
15 p2342 N84-25061
Panasonic HR-1800 hand-held computer solutions to composite materials formulas
[AD-A139798] 15 p2391 N84-25352
Polymers in mechanochemical systems: Structure-property requirements
[DE84-007290] 15 p2413 N84-25490
Journal of aeronautical materials (selected articles)
[AD-A140167] 16 p2434 N84-25610
Fabrication development for ODS-superalloy, air-cooled turbine blades
[NASA-CR-174650] 16 p2450 N84-25711
Space radiation effects on graphite-epoxy composite materials
[NASA-TM-85478] 16 p2460 N84-25769
Solid state compressor
[AD-A140498] 16 p2499 N84-26032
The listing and approval procedure for materials and processes
[ESA-PSS-01-716-ISSUE-1] 16 p2500 N84-26046
On vector calculation of mechanic flow computer programs 16 p2549 N84-26358
An industry test program for interlayer equivalency
[AD-P003200] 17 p2592 N84-26613
Microstructure and orientation effects on properties of discontinuous silicon carbide/aluminum composites
[NASA-TP-2302] 17 p2617 N84-26749
ICAN: Integrated composites analyzer
[NASA-TM-83700] 17 p2618 N84-26755
Technological effects of pressure vessel manufacturing processes on steel properties
[EUR-7614] 17 p2622 N84-26780
SEM (Scanning-Electron-Microscopy) studies of magnetic domains in amorphous metals
[AD-A140718] 17 p2624 N84-26793
Processing and properties of airframe materials
[AD-A140832] 17 p2624 N84-26797
Durability of structural adhesively bonded systems
[AD-A140714] 17 p2626 N84-26805
Development of high modulus polydiacetylene fibres for use in fibre-reinforced composites
[AD-A140912] 17 p2627 N84-26809
The simulation of deformable mechanical systems using vector processors 17 p2675 N84-27045
Effect of mechanical stress on the dielectric properties of wood
[AD-A140608] 17 p2680 N84-27069
Some properties of epoxy resins used for filament winding and preimpregnating fibres
[AERE-R-10966] 18 p2820 N84-27905
Overview of characterization techniques for high speed crystal growth 18 p2936 N84-28619
Effects of non-equilibrium solidification on the material properties of brick silicon for photovoltaics
18 p2940 N84-28648
The influence of lattice imperfections on the chemical reactivity of solids. The growth, perfection and defect properties of PETN (pentaerythritol tetranitrate) and RDX (cyclotrimethylene trinitramine) single crystals, part 2
[AD-A141272] 18 p2941 N84-28652
Mechanical properties of metal hydrides
[AD-A141496] 19 p2994 N84-28970
Effect of refractory elements on the coherency strain and flow stress on nickel-base superalloys
[AD-A142220] 19 p2994 N84-28975
The production and evaluation of high-strength optical fibre 19 p3104 N84-29717
Electropositive bivalent metallic ion unsaturated polyester complexed polymer concrete
[DE84-011080] 20 p3146 N84-29979
Study of high performance alloy electroforming
[NASA-CR-173828] 20 p3152 N84-30013
Thermomechanical processing and texture development in Ni-Cr-Mo and Mn-Mo-B armor steels
[AD-A142352] 20 p3153 N84-30020
Influence of processing on the cryogenic mechanical properties of high strength high manganese stainless steel
[DE84-008242] 20 p3154 N84-30027
The influence of nitrogen on the sensitization, corrosion, mechanical and microstructural properties of stainless steels
[DE83-017203] 20 p3157 N84-30050
The effects of non-metallic inclusions in steel on fatigue properties 20 p3160 N84-30070
Criterion for quasibrittle crack growth
[DE84-010052] 20 p3203 N84-30349
Property screening and evaluation of ceramic turbine materials
[AD-A142739] 21 p3343 N84-31210
Physical aging and its influence on the reliability of network epoxies and epoxy-matrix composites
[NASA-CR-173870] 21 p3356 N84-31289
The mechanical properties of carbon fibre with glass fibre hybrid reinforced plastics 21 p3357 N84-31292
Study of high performance alloy electroforming — nickel manganese and nickel cobalt manganese alloys
[NASA-CR-173865] 21 p3366 N84-31350
Fundamental mechanisms of multi-phase flow erosion/corrosion of solid surfaces
[AD-A143041] 21 p3366 N84-31355
Investigations of mechanical properties of high strength steels and their suitability for glass lining
[BMFT-FB-T-84-076] 21 p3368 N84-31370
Engineering properties of some coatings
[DE84-002715] 21 p3371 N84-31390
New sapphire and ruby components and their manufacture using diamond abrasives
[CSIR-TRANS-1734] 21 p3375 N84-31419
Role of texture and structural damage in plane strain deformation processing 21 p3416 N84-31664
The Shock and Vibration Digest, volume 16, no. 7
[AD-A143958] 21 p3418 N84-31679
Vibrations and stability of mechanical systems, 3
21 p3419 N84-31681
Effects of cyclohexyl groups and ortho-substituents on the viscosity of ester liquid crystal components
[AD-A143028] 21 p3504 N84-32205
Liquid crystal materials for matrix displays
[AD-A143039] 21 p3504 N84-32206
Residual mechanical properties of Ti-6Al-4V after simulated Space Shuttle reentry
[NASA-TM-86294] 22 p3554 N84-32506
Mechanical property data 15-5PH (H1025) stainless steel alloy: Hot-rolled plate
[AD-A143327] 22 p3555 N84-32510
Mechanical property data 7175-t736 aluminum alloy: Hand forging
[AD-A143328] 22 p3555 N84-32511
Ferrous alloy metallurgy, liquid lithium corrosion and welding
[DE84-014656] 22 p3556 N84-32517
Microstructure, mechanical properties and two-body abrasive wear resistance of an Fe-3Cr-C based ultra-high strength steel
[DE84-014605] 22 p3556 N84-32520
Structure of polycrystalline boron nitride as determined by electron microscopic thin sections
[CSIR-TRANS-1738] 22 p3556 N84-32533
Properties of UV-cured polyurethane acrylates: Effect of polyol type and molecular weight
[AD-A143176] 22 p3559 N84-32537
Properties of UV-curable polyurethane acrylates: Effect of reactive diluent
[AD-A143241] 22 p3559 N84-32540
Development of partially fluorinated resin apex seals
[NASA-CR-174706] 22 p3603 N84-32828
Materials testing of the IUS techroll seal material
[NASA-TM-86462] 22 p3604 N84-32829
Improving the birdstrike resistance and durability of aircraft windshield systems: Program technical summary
[AD-A143712] 23 p3691 N84-33395
Mechanical properties of components made from powders received by processing low-grade porous titanium 23 p3707 N84-33500
Certain metallurgical properties of laser welding
23 p3710 N84-33517
Influence of cobalt, tantalum and tungsten on the high temperature mechanical properties of single crystal nickel-base superalloys 23 p3716 N84-33558
Review of the strength of brittle rock materials
23 p3722 N84-33586
Strength of gypsum in complex states of stress
23 p3722 N84-33588
Engineering and design properties of thallium-doped sodium iodide and selected properties of sodium-doped cesium iodide
[NASA-RP-1131] 23 p3726 N84-33613
Three-dimensional photochemical machining with lasers
[AD-A144096] 23 p3755 N84-33800
Evaluation of COD (Crack-Opening-Displacement) compliance determined crack growth rates
[AD-A144037] 23 p3761 N84-33838
Interactions of twin boundaries and dislocations in solar silicon
[NASA-CR-173942] 23 p3789 N84-34032
Arctic ice island and sea ice movements and mechanical properties
[DE84-014324] 23 p3803 N84-34116
Amorphous metallic materials
24 p3870 N84-34528
Influence of laser hardening on mechanical properties of type 45 steel 24 p3873 N84-34548
Hydrogen embrittlement of titanium and its alloys
24 p3875 N84-34554
Relationship of structure with cyclic crack resistance of Alpha-titanium alloys 24 p3875 N84-34557
Process for improving mechanical properties of epoxy resins by addition of cobalt ions
[NASA-CASE-LAR-13230-1] 24 p3878 N84-34571
Introduction to composite materials
[AD-A144274] 24 p3879 N84-34578
Solidification structures grown under induced flow and continuous casting of steel 24 p3883 N84-34599
The role of material properties in adhesion
[NASA-TM-83792] 24 p3888 N84-34619
Hot isostatic pressing of ceramic powder compacts
[AD-A144123] 24 p3888 N84-34621
Extended abstracts of the Proceedings of the 2nd International Symposium on Halide Glasses
[AD-A144269] 24 p3888 N84-34624
Mechanical properties of multi-year sea ice. Phase 1: Test results
[AD-A144132] 24 p3935 N84-34907

MECHANICAL RESONANCE
U RESONANT VIBRATION

MECHANICAL SHOCK
Electrical-shock prevention. Volume 3: Fault protection for motion-drive equipment
[PB84-102961] 08 p1206 N84-17867
Least favorable response of inelastic structures
[AD-A136289] 09 p1330 N84-18687
The Shock and Vibration Digest, volume 15, no. 8
[AD-A133706] 10 p1506 N84-19849
The Shock and Vibration Digest, volume 16, no. 1
[AD-A137502] 10 p1507 N84-19862
The Shock and Vibration Bulletin. Part 1: Welcome, keynote address, invited papers, pyrotechnic shock, and shock testing and analysis
[AD-A134452] 10 p1507 N84-19866
Pyrotechnic shock test and test simulation
10 p1508 N84-19873
Effect of measurement system phase response on shock spectrum computation 10 p1509 N84-19877

Evaluation and control of conservatism in drop table shock tests
[AD-A134453] 10 p1509 N84-19679
The Shock and Vibration Bulletin. Part 2: Fluid-structure dynamics and dynamic analysis
[AD-A134455] 10 p1510 N84-19681
Approximate numerical predictions of impact-induced structural responses
[AD-A134455] 10 p1511 N84-19690
The Shock and Vibration Bulletin. Part 4: Damping and machinery dynamics
[AD-A134455] 10 p1514 N84-19908
Standard environmental test methods
[DE84-006471] 11 p1666 N84-20668
The Shock and Vibration Digest, volume 16, no. 2
[AD-A139098] 12 p1821 N84-21874
The Shock and Vibration Digest, volume 16, no. 4
[AD-A141077] 21 p3418 N84-31676

MECHANICAL TWINNING
The influence of lattice imperfections on the chemical reactivity of solids. The growth, perfection and defect properties of PETN (pentaerythritol tetranitrate) and RDX (cyclotrimethylene trinitramine) single crystals, part 1
[AD-A141271] 18 p2941 N84-28651

MECHANICS (PHYSICS)
Interactive computer graphic surface modeling of three-dimensional solid domains for boundary element analysis
[NASA-TM-85839] 12 p1873 N84-22208

MECHANIZATION
An overview of artificial intelligence and robotics. Volume 1: Artificial intelligence. Part C: Basic AI topics
[NASA-TM-85839] 05 p0732 N84-14805
The impact of factory automation and robotics on the contracting and acquisition processes
[AD-P002830] 13 p2062 N84-23375
West Europe report: Science and technology
[JPRS-WST-84-013] 14 p2118 N84-23684
West Europe report: Science and technology
[JPRS-WST-84-001] 14 p2135 N84-23799
Integrated Application of Active Controls (IAAC) technology to an advanced subsonic transport project: Current and advanced act control system definition study
[NASA-CR-3545] 18 p2796 N84-27744
Manual and automated line generalization and feature displacement
[AD-A143250] 22 p3614 N84-32900
Development of production technologies for the series production of optical components with aspheric surfaces
[BMFT-FB-T-84-115] 23 p3727 N84-33620
Technical features of robotized machining system viewed
24 p3992 N84-34643

MEDIA
NT ANISOTROPIC MEDIA
NT ELASTIC MEDIA
NT INTERGALACTIC MEDIA
NT INTERPLANETARY DUST
NT INTERPLANETARY GAS
NT INTERPLANETARY MEDIUM
NT METEOROID DUST CLOUDS
NT ZODIACAL DUST
Reflection and transmission of electromagnetic waves at a rough interface between two different media
[PB83-217566] 06 p0826 N84-15359
The parabolic approximation for sound propagation in stratified moving media
06 p0907 N84-15693
Exact solution to problem of interaction between wedge moving at supersonic velocity and interface of two gaseous media
13 p1971 N84-22790
Wave propagation in dense geophysical media
[AD-A143213] 22 p3623 N84-32955
An exploratory analysis of the relationship between media richness and managerial information processing
[AD-A143503] 22 p3674 N84-33293

MEDICAL EQUIPMENT
NT PROSTHETIC DEVICES
NT RESPIRATORS
NT X RAY APPARATUS
NT X RAY TUBES
Sterile devices: A GMP (Good Manufacturing Practices) workshop manual
[PB83-226563] 01 p0061 N84-10400
New technologies in the forefront of industrial developments
07 p0944 N84-16123
Qualification testing of solar photovoltaic powered refrigerator freezers for medical use in remote geographic locations
[NASA-CR-166161] 15 p2361 N84-25162
Solar photovoltaic powered refrigerators/freezers for medical use in remote geographic locations
[NASA-CR-166268] 15 p2361 N84-25163
Method of determining intensity of elimination of microorganisms from human upper respiratory tract
15 p2377 N84-25264
Development of a new, completely implantable intraventricular pressure meter and preliminary report of its clinical experience
[NASA-TM-77121] 16 p2535 N84-26276
Medical clip
[NASA-CASE-LAR-12650-1] 18 p2899 N84-28388
Process of making medical clip
[NASA-CASE-LAR-12650-2] 18 p2899 N84-28389
Hyperbaric chamber equipment: A consolidated equipment list from selected multiplace hyperbaric facilities
[AD-A141702] 19 p2970 N84-28820
A study for developing an ultrasonic Doppler flowmeter
[BMFT-FB-T-84-135] 23 p3752 N84-33788

MEDICAL PERSONNEL
NT PHYSICIANS
Aeromedical support of helicopter medical evacuation and rescue operations
16 p2537 N84-26289
Systems development and applications software in medical facilities
[AD-A141306] 18 p2945 N84-28674

MEDICAL SCIENCE
NT DERMATOLOGY
NT ENDOCRINOLOGY
NT EPIDEMIOLOGY
NT HISTOLOGY
NT HUMAN PATHOLOGY
NT IMMUNOLOGY
NT NEUROLOGY
NT NUCLEAR MEDICINE
NT OPHTHALMOLOGY
NT ORTHOPEDICS
NT OTOLOGY
NT PATHOLOGY
NT RADIOBIOLOGY
NT RADIOLOGY
NT UROLOGY
Conference on Ultrasonics in Biology and Medicine, UBIOMED 6: Report summaries
[ISSN-0208-5658] 01 p0111 N84-10723
China report: Science and technology, no. 208
[JPRS-84474] 01 p0118 N84-10766
Permuted medical subject headings, 1984
[PB83-234781] 03 p0460 N84-13027
Medical subject headings, tree structures, 1984
[PB83-223164] 03 p0460 N84-13028
Medical Subject Headings, Annotated Alphabetic List, 1984
[PB83-223156] 03 p0460 N84-13029
The Role of Oxygen Radicals in Biology and Medicine
[AD-A133053] 05 p0712 N84-14663
Military Medical Journal, no. 7, 1983
[L-2456] 08 p1198 N84-17811
Military Medical Journal, no. 2, 1983
[L-2341] 08 p1199 N84-17814
Medical subject headings, tree annotations, 1984. Technical notes, Medlars indexing instructions
[PB84-120047] 09 p1405 N84-19181
Biomedical Research Division significant accomplishments for FY 1983
[NASA-TM-85929] 10 p1545 N84-20128
US Army Medical Bioengineering Research and Development Laboratory, fiscal year 1983
[AD-A136926] 10 p1545 N84-20129
Medlars indexing instructions, tumar key supplement, 1984 (Technical Notes)
[PB84-120039] 11 p1750 N84-21424
USSR report. Life sciences: Biomedical and behavioral sciences
[JPRS-UBB-84-007] 14 p2250 N84-24515
Contributions of space medicine to medical research
14 p2251 N84-24517
GUIDON: A computer-aided instructional program
[AD-A139999] 15 p2383 N84-25293
Nonaerospace uses of JPL technology: A report on technology transfer
[NASA-CR-172804] 15 p2429 N84-25588
Are living cells sensitivity to gravity?
[DFVLR-MITT-83-19] 17 p2743 N84-27418
Report on a visit to England, 7-10 November 1983 — defense medical research
[FOA-C-59008-H1] 18 p2901 N84-28402
Medical research program of 'Soyuz T-10' crew
19 p2971 N84-28826
Goals of cosmonaut At'kov's medical studies on 'Salyut-7'
19 p2971 N84-28827
USSR report: Life sciences. Biomedical and behavioral sciences
[JPRS-UBB-84-016] 20 p3257 N84-30675
USSR report: Life sciences. Effects of nonionizing electromagnetic radiation
[JPRS-UNE-84-001] 21 p3452 N84-31903
USSR report: Life sciences. Biomedical and behavioral sciences
[JPRS-UBB-84-012] 21 p3454 N84-31916
USSR report: Life sciences. Biomedical and behavioral sciences
[JPRS-UBB-84-017] 21 p3455 N84-31924
USSR report: Life sciences. Biomedical and behavioral sciences
[JPRS-UBB-84-018] 22 p3629 N84-32996
Notes for medical catalogers, 1983
[PB84-195874] 22 p3675 N84-33296
Military Medical Journal, no. 4, 1984
[L-2718] 23 p3806 N84-34134
Medical-psychological problems of the occupational reliability of flight personnel
23 p3807 N84-34136

MEDICAL SERVICES
Medical aspects of survival: Training for aircrew
[AGARD-AG-283(FR)] 06 p0891 N84-15787

MEDITERRANEAN SEA
Marine remote sensing activities of the Joint Research Center, Ispra, Italy
03 p0396 N84-12586
Remote sensing analysis of oil pollution in Augusta Bay, Sicily
03 p0400 N84-12616
Expendable bathythermograph (XBT) measurements in the Western Alboran Sea, October 1982
[AD-A133939] 06 p0884 N84-15748
The advection of submesoscale thermal features in the Alboran Sea Gyre
[AD-A133877] 06 p0884 N84-15749
Mariners weather log, volume 27, number 3, summer 1983
[PB84-108356] 08 p1192 N84-17771
Discussion of the design of satellite-laser measurement stations in the eastern Mediterranean under the geological aspect. Contribution to the earthquake prediction research by the Wegener Group and to NASA's Crustal Dynamics Project
[NASA-TM-77412] 14 p2175 N84-24031
The depiction of Alboran Sea Gyre during Donde Va? using remote sensing and conventional data
17 p2719 N84-27306
A directory of European, Middle Eastern, and North African coastal ground control points for mapping satellite images
[AD-A142019] 20 p3228 N84-30512
Discussion of the Ionian and Levantine Seas
[DE84-011562] 21 p3451 N84-31898

MEETINGS
U CONFERENCES

MEISSNER EFFECT
U DIAMAGNETISM
U SUPERCONDUCTIVITY

MELT SPINNING
Design and characterization of Mn-Al-C alloys for permanent magnet applications
[DE84-004881] 10 p1461 N84-19542
Rapid solidification processing of Al-Cu-Li-Mg alloys
[VTH-LR-380] 10 p1464 N84-19560
Advanced powder metallurgy aluminum alloys via rapid solidification technology
[NASA-CR-172343] 16 p2464 N84-25794
Rapidly solidified alloys made by chill block melt-spinning processes
18 p2937 N84-28625

MELTING
NT ARC MELTING
NT FUSION (MELTING)
NT LEVITATION MELTING
NT VACUUM MELTING
The velocity of sound behind strong shock waves in 2024 Al
[DE83-015927] 02 p0220 N84-11446
The melting spherical ice particles falling at terminal velocity in air: An experimental and theoretical study
02 p0252 N84-11647
Predicting lake ice decay
[AD-A132012] 03 p0401 N84-12618
Thermal modeling of laser welding with a quasi-1-dimensional approach
[DE84-001292] 04 p0544 N84-13585
Hot melt recharge system — repairing damaged or missing tiles on space shuttle orbiter
[NASA-CASE-LAR-12861-1] 05 p0658 N84-14323
Choice of a melting installation for aluminum alloy
[BLL-OA-TRANS-3095-(6196.3)]
06 p0804 N84-15239
Pulsed laser melting: The effect of implanted solutes on the resolidification velocity
[DE84-003252] 07 p1010 N84-16552
Probable maximum precipitation and snowmelt criteria for southeast Alaska
[PB84-104371] 08 p1193 N84-17777
Deep diode arrays for X-ray detection
[NASA-CR-175178] 09 p1306 N84-18537
Diurnal freeze-thaw frequencies in the high latitude: A climatological guide
[AD-A135869] 09 p1349 N84-18812
Melting layer survey
[AD-A137911] 11 p1687 N84-21003
Shock consolidation of powders: Theory and experiment
[DE84-007273] 13 p1961 N84-22741

Estimation of melting rate of snow by simple formulae using only air temperature 15 p2353 N84-25121
Optical properties of melting snow, 1 15 p2354 N84-25122
Water balance at a small watershed during the snowmelt season, 1 15 p2354 N84-25123
Water balance at a small watershed during the snowmelt season. 2: Runoff analysis 15 p2354 N84-25124
Development of media for dynamic latent heat storage for the low temperature range. Part 1: Thermal analysis of selected salt hydrate systems [DFVLR-FB-84-03-PT-1] 15 p2362 N84-25170
Melting and solidification of metallic composites 17 p2613 N84-26726
Variation of Arctic cloud cover during summer 1979, part 1 [DE84-006896] 19 p3057 N84-29395
Resistance of microorganisms from mesosphere to periodic freezing-thawing 22 p3630 N84-33001
Certain features of laser welding with penetrating melting 23 p3709 N84-33513
Changes in solidified microstructures 24 p3882 N84-34595
Melt-flow-toughness modified polyimide [NASA-CASE-LAR-13135-1] 24 p3887 N84-34616

MELTING POINTS
Heating and melting low-melting ferroalloys and hardeners in molten steel [BLL-M-35219-(5828.4)] 01 p0040 N84-10256
Effect of molecular-structural characteristics of cis-1,4 polyisoprene on the melting temperature of the orientated crystalline phase [CSIR-TRANS-1643] 01 p0152 N84-10999
Rarefaction velocities in shocked tantalum and the high-pressure melting point [DE83-015916] 02 p0195 N84-11268
Theory of the iron equation of state and melting curve to very high pressures [DE83-015899] 02 p0196 N84-11274
A statistical examination of the effect of composition on the freezing points of hydro-carbon mixtures [AD-A131000] 02 p0203 N84-11321
On the functional dependence of the freezing point of soils on the composition of water soluble salts in an interstitial solution [NRC/CNR-TT-2070] 06 p0877 N84-15707
Experimental results for the rapid determination of the freezing point of fuels [NASA-CR-168305] 09 p1290 N84-18419
High pressure melting and crystallization of Nylon-11 [AD-A138858] 13 p1984 N84-22760
Intercomparison of zinc freezing point cells and standard platinum resistance thermometers [DE84-007440] 14 p2149 N84-23875
The effect of ice temperature on regelation velocities 15 p2353 N84-25113
New phase transition in Si and GaAs exposed to picosecond laser pulses 20 p3286 N84-30668

MELTS (CRYSTAL GROWTH)
NT CONTAINERLESS MELTS
NT MELT SPINNING
Special features of electrochemical determination of non-uniformly distributed oxygen in melts [BLL-M-35105-(5828.4)] 01 p0036 N84-10226
Melting of metals above 100 GPa [DE83-015261] 01 p0046 N84-10299
A melt for the electrolytic application of titanium plating [BLL-OA-TRANS-3111-(6L96.3)] 06 p0804 N84-15241
Dispersion alloys TEXUS-Experiments: TEXUS-01 B TEXUS 7, TEM-01 B — microgravity processing [NASA-TM-77531] 07 p0973 N84-16308
High-temperature, high-pressure optical cell [NASA-CASE-MFS-26000-1] 07 p1075 N84-16986
Crystal growth of device quality GaAs in space [NASA-CR-173148] 07 p1079 N84-17013
Material properties of semiconductor strained-layer superlattices [DE84-002103] 07 p1082 N84-17034
Production of titanium powders by the electrolysis of chloride-fluoride melts with a soluble anode [BLL-OA-TRANS-3136-(6196.3)] 08 p1128 N84-17338
Electroplated metal coatings produced by fused salt electrolysis [BLL-OA-TRANS-3140-(6196.3)] 09 p1281 N84-18366
A melt for electrolytic tungsten plating — using a carbamide base and ammonium chloride [BLL-OA-TRANS-3160-(6196.3)] 09 p1281 N84-18369
Large plate CdTe synthesis by sealed vessel transport [AD-A137514] 10 p1586 N84-20409
Bulk formation of metallic glasses and amorphous silicon from the melt [NASA-CR-171012] 13 p1983 N84-22752
InP materials [AD-A138892] 13 p2047 N84-23282
Rapid solidification research on aluminum alloys at Delft University of Technology — bibliographies 15 p2295 N84-24771
Manufacturing methods and technology engineering for 'Growth of large diameter Nd:YAG laser crystals' [AD-A139902] 15 p2413 N84-25486
Some fundamental aspects of solidification in a supercooled melt [NASA-TM-83714] 17 p2623 N84-26787
Radial segregation induced by natural convection and melt/solid interface shape in vertical Bridgman growth [NASA-CR-173627] 17 p2767 N84-27571
Is there a speed limit? 18 p2935 N84-28616
Overview of bulk silicon crystal growth — Czochralski and float zone systems 18 p2935 N84-28617
Transport processes in dendritic crystallization 18 p2936 N84-28621
Models of rapid solidification 18 p2936 N84-28623
Rapidly solidified alloys made by chill block melt-spinning processes 18 p2937 N84-28625
Maximization of growth rates during Czochralski pulling 18 p2940 N84-28646
MEA/A-1 experiment 61F01 conducted on STS-7 flight, June 1983. Containerless processing of glass forming melts [NASA-CR-171048] 19 p2997 N84-28993
Investigation of the crystallization kinetics of an incongruent melting salt hydrate under metastable conditions [DE84-008666] 19 p3112 N84-29771
Silicon crystal growing by oscillating crucible technique [DE84-011038] 20 p3309 N84-31019
Mathematical model for a simplified Bridgman-Stockbarger crystal growing system [NASA-CR-171106] 21 p3504 N84-32202
The undercooling of liquids 24 p3881 N84-34590
Process and apparatus for growing a crystal ribbon [NASA-CASE-NPO-15629-1] 24 p3966 N84-35113

MEMBRANE ANALOGY
U MEMBRANE STRUCTURES
U STRUCTURAL ANALYSIS

MEMBRANE STRUCTURES
NT SKIN (STRUCTURAL MEMBER)
The plasma membrane calcium pump 02 p0264 N84-11734
Carboxylic acid ionophores as probes of the role of calcium in biological systems 02 p0264 N84-11735
Measurement and control of free calcium inside small intact cells 02 p0264 N84-11736
Stream-water storage in the ocean using an impermeable membrane [PB83-248369] 04 p0517 N84-13394
The 2-dimensional inextensible lifting membrane airfoil, theory and experiment [AD-A135251] 06 p1099 N84-17147
Interaction of weak shock waves and discrete gas inhomogeneities 08 p1155 N84-17517
Coupled-transport membranes for metal separations, phase 5 [PB84-127034] 09 p1286 N84-18396
High temperature oxide electrolytes for the splitting of water. The ROC process 11 p1740 N84-21351
Review of preliminary analysis techniques for tension structures [AD-A139853] 15 p2350 N84-25110
Technical and cost benefits of lightweight, stretched-membrane heliostats [DE83-009408] 16 p2513 N84-26124
Oscillations of a reservoir with a fluid on the free surface of which a membrane is located [AD-A142127] 19 p3024 N84-29179

MEMBRANE THEORY
U STRUCTURAL ANALYSIS

MEMBRANES
NT CONJUNCTIVA
NT ION EXCHANGE MEMBRANE ELECTROLYTES
NT MEMBRANE STRUCTURES
NT SKIN (STRUCTURAL MEMBER)
Microelectronic bending and pressure sensors [BMFT-FB-T-83-100] 02 p0225 N84-11476
Membranes and separators for flowing-electrolyte batteries: A review [DE83-016246] 02 p0242 N84-11586
Calcium modulation of plant plasma membrane-bound ATPase activities 02 p0263 N84-11723
Optical fiber tactile sensor [NASA-CASE-NPO-15375-1] 02 p0293 N84-11921
Novel composite membranes [PB83-243170] 03 p0351 N84-12284
Development of multicomponent transport theory and transport data for membranes in concentrated electrolytes [DE84-001846] 04 p0495 N84-13249
Battery transport data [DE84-001640] 04 p0526 N84-13462
The effects of hyperbaric elemental gases on the rate coefficient of K(+) influx in mammalian synaptosomes 04 p0570 N84-13754
Kinetic and spectroscopic studies of cytochrome b-563 in isolated cytochrome b/f complex and in thylakoid membranes [DE83-017982] 04 p0571 N84-13760
Luminescence probe studies of nafion polyelectrolytes [AD-A133519] 06 p0801 N84-15224
Development and demonstration of a spiral-wound thin-film composite membrane system for the economical production of oxygen-enriched air, phases 1, 2 and 3 [DE84-002918] 07 p0972 N84-16298
Permeability of sodium sulfacyl through membrane structures differing in degree of organization with exposure to low-frequency magnetic field 07 p1043 N84-16763
Structural efficiency studies of corrugated compression panels with curved caps and beaded webs [NASA-TP-2272] 09 p1329 N84-18675
Infinite dimensional stochastic differential equation models for spatially distributed neurons [AD-A136507] 09 p1376 N84-18988
Temperature-resistant elements for reverse osmosis treatment of hot process waste [DE84-005190] 10 p1456 N84-19507
Prochloron research [NASA-CR-173264] 10 p1543 N84-20113
Prochloron expedition 10 p1544 N84-20120
Radiofrequency radiation effects on excitable tissues [AD-A137772] 11 p1895 N84-21058
Finite element analysis of wrinkling membranes [NASA-CR-172325] 14 p2158 N84-23926
Flow past a flexible membrane [AD-P002938] 14 p2197 N84-24178
Permeability of polymetric membrane lining materials [PB84-166859] 15 p2302 N84-24818
A photovoltaic concentrator for 500 Wpk using a C50-Si generator and a glass-laminated metal membrane reflector [BMFT-FB-T-84-050] 16 p2519 N84-26168
High temperature oxide electrolytes for the splitting of water--the ROC process [AD-A140881] 17 p2620 N84-26765
Method for the preparation of thin-skinned asymmetric reverse osmosis membranes and products thereof [NASA-CASE-ARC-11359-1] 18 p2894 N84-28361
Experimental study of the thermodynamics of thin films and surfaces [DE84-010361] 18 p2943 N84-28660
Aircraft fuel tank inerting system [AD-A141863] 19 p2964 N84-28785
Anion permselective membrane [NASA-CR-174725] 19 p3050 N84-29358
Large deflections of circular isotropic membranes subjected to arbitrary axisymmetric loading [NASA-TM-86271] 21 p3419 N84-31686
Effects of microwaves on cell membrane permeability [AD-A142979] 21 p3453 N84-31913
Nonlinear dynamics in excitable nerve membranes 21 p3477 N84-32037
Research on phase transformations and non-equilibrium process [DE84-014376] 23 p3720 N84-33580
Large-area sheet task advanced dendritic web growth development [NASA-CR-173958] 23 p3787 N84-34019

MEMORY
Representation in memory [AD-A130662] 01 p0117 N84-10757
Four frames suffice. A provisionary model of vision and space [AD-A132359] 04 p0580 N84-13825
Time series long memory identification and quantile spectral analysis [AD-A132240] 04 p0590 N84-13900
Duration of memory loss due to electron beam exposure [AD-A132941] 06 p0886 N84-15760
A comparison of map learning methods: Map study, simulated travel and mixed [AD-A133544] 06 p0892 N84-15794
Reasoning about digital circuits [AD-A136634] 09 p1365 N84-18914
The effect of noise and display orientation on cognitive performance [AD-A136606] 10 p1550 N84-20158

A comparison of homogeneous and heterogeneous display formats in information integration and nonintegration tasks
[AD-A136693] 10 p1554 N84-20183
Memory organization-based methods of instruction: A comparison with performance-oriented training
[AD-A137640] 11 p1701 N84-21096
Memory organization-based methods of instruction: Rationale and development
[AD-A137504] 11 p1702 N84-21101
Information theoretic models of memory in human decisionmaking models
[AD-P002883] 13 p1978 N84-22844
Visual organization and information processing
[PB84-170778] 15 p2384 N84-25295
What's domain skill? Frames in information seeking
[FOA-C-53014-H2] 15 p2417 N84-25515
Effects of appraisal salience on immediate and memory-based judgments
[AD-A140334] 16 p2538 N84-26295
Animal models of human performance: Structural and functional approaches to extrapolating from animal to man
[AD-P003292] 18 p2908 N84-28442
Assessment of learning abilities using rate measures
[AD-P003340] 18 p2911 N84-28463
The dual meaning of the term context: Implications for research, theory and applications
[AD-P003365] 18 p2913 N84-28478
The representation of part-whole information in memory
[PB84-180140] 20 p3263 N84-30701

MEMORY (COMPUTERS)
Detailed introduction and reference manual for: The network-shared-memory distributed database system
[DE83-017547] 04 p0585 N84-13865
Signal processing at the Poker Flat MST radar
17 p2695 N84-27169
Bringing together various programs and data packets in the ZX81/TS1000/TK82C/CP200 memory
[INPE-3013-PRE/456] 17 p2752 N84-27466
Tesla computer semiconductor memory
18 p2918 N84-28501
Research into self-timed VLSI circuits
[AD-A141671] 19 p3014 N84-29103
A distributed memory management system for PASM
[AD-A141360] 19 p3072 N84-29487
An operating system and memory switch for the S-1 computer
[DE84-013094] 20 p3267 N84-30731
On the impact of communication complexity in the design of parallel numerical algorithms
[NASA-CR-172436] 22 p3637 N84-33059
Trends in computational capabilities for fluid dynamics
[NASA-TM-86012] 23 p3689 N84-33383
Soviet integrated circuits in use in GDR
23 p3726 N84-33630
Electro-optical switching and memory display device
[DE84-014227] 23 p3744 N84-33732
East European report: Science and technology
[JPRS-ESA-84-031] 24 p3960 N84-35071
EC 1027 computer system 24 p3960 N84-35075

MENTAL HEALTH
Mental status and work capacity of Salyut-6 station crew members 07 p1044 N84-16773
Suicide gestures of USAF basic trainees
[AD-P003245] 18 p2903 N84-28412
Comparing well-being and stress of several high risk Army groups
[AD-P003264] 18 p2906 N84-28430

MENTAL PERFORMANCE
Representation in memory
[AD-A130662] 01 p0117 N84-10757
Experimental psychological methods used in expert evaluation of mental work capacity of flight personnel in the presence of functional disturbances and central nervous system diseases 02 p0261 N84-11712
Metaphor and common-sense reasoning
[AD-A131423] 02 p0268 N84-11756
Physical fitness as a moderator of cognitive degradation during sleep deprivation
[AD-A131962] 03 p0415 N84-12718
Minicomputer administered tasks in the study of effects of sustained work on human performance
[AD-A133870] 05 p0715 N84-14688
The ability to process abstract information
[AD-A133794] 05 p0716 N84-14689
Research in knowledge representation for natural language understanding
[AD-A134102] 05 p0726 N84-14765
Untutored concept learning
[AD-A133765] 05 p0732 N84-14808
Neuronal adaptive mechanisms underlying intelligent information processing
[AD-A133694] 06 p0869 N84-15776
A study on airborne integrated display system and human information processing
[NASA-TM-77338] 06 p0891 N84-15789
A comparison of map learning methods: Map study, simulated travel and mixed
[AD-A133544] 06 p0892 N84-15794
Mental status and work capacity of Salyut-6 station crew members 07 p1044 N84-16773
A theory of diagnostic inference: Judging causality
[AD-A133172] 07 p1049 N84-16796
The effect of noise and display orientation on cognitive performance
[AD-A136808] 10 p1550 N84-20158
Processes of skill performance: A foundation for the design and use of training equipment
[AD-A136879] 10 p1550 N84-20160
The limits of multiple resource theory: The role of task correlation/integration in optimal display formatting
[AD-A136692] 10 p1554 N84-20182
A comparison of homogeneous and heterogeneous display formats in information integration and nonintegration tasks
[AD-A136693] 10 p1554 N84-20183
Behavioral and subjective workload metrics for operational environments 11 p1696 N84-21065
Variations in states of alertness during continuous operations at the control post level
11 p1697 N84-21068
The effects of sleep loss and sustained mental work: Implications for command and control performance
11 p1697 N84-21069
Adaptation to irregularity of rest and activity
11 p1697 N84-21070
Cognitive performance change during a 6-hour hike at low temperature in simulated rain, at controlled walking rates
[AD-A136358] 13 p2020 N84-23100
Ability and expertise in act generation
[AD-A137973] 13 p2022 N84-23110
Problem analysis and definition in act generation
[AD-A137978] 13 p2022 N84-23111
Performance in dual tasks
[AD-A136603] 14 p2186 N84-24096
A consideration on the capability of receiving character-information
[NHK-SERIAL-294] 15 p2417 N84-25511
Mental performance in mild oxygen deficiency
[IAM-409] 17 p2746 N84-27433
Electrosleep in prophylaxis of psychoneural stress and recovery of mental performance in operators
18 p2895 N84-28367
EEG informational content in prediction of work performance 18 p2895 N84-28368
Structure of formal-dynamic properties of human psyche in signal systems interaction 18 p2898 N84-28383
Response of cardiac rhythm to information load
18 p2898 N84-28384
A sociotechnical communications model for command and control
[AD-P003238] 18 p2902 N84-28405
Factor stability and construct validation of Yukl's MBS (Managerial Behavior Survey) for military leadership
[AD-P003246] 18 p2904 N84-28413
Exploring the interaction of the Vroom/Yetton model and leadership style (LPC) (Least Preferred Coworker) as it predicts performance
[AD-P003247] 18 p2904 N84-28414
Subordinate perceptions of contingent leaders: Do followers accept our theories?
[AD-P003248] 18 p2904 N84-28415
A summary of the psychological effects of tactical nuclear warfare
[AD-P003256] 18 p2905 N84-28423
Animal models of human performance: Structural and functional approaches to extrapolating from animal to man
[AD-P003292] 18 p2908 N84-28442
A review and evaluation of research concerning the performance effects of nuclear radiation
[AD-P003295] 18 p2908 N84-28445
The limits of multiple resource theory in display formatting: Effects of task integration
[AD-P003321] 18 p2910 N84-28457
Psychophysiological tools in engineering psychology
[AD-P003337] 18 p2911 N84-28461
Assessment of learning abilities using rate measures
[AD-P003340] 18 p2911 N84-28463
Age effects on active duty Army MMPI (Minnesota Multiphasic Personality Inventory) profiles
[AD-P003343] 18 p2911 N84-28464
The effects of marginal vitamin deficiency on mental performance
[IZF-1983-29] 18 p2914 N84-28483
Towards a general scientific reasoning engine
[AD-A141263] 18 p2924 N84-28543
Perception of acoustic transients
[AD-A136201] 18 p2929 N84-28571
Mental and psychomotor task performance in noise
19 p3069 N84-29474
A machine learning approach to student modeling
[AD-A141704] 19 p3080 N84-29547
Psychophysiological aspects of monotonous human activity 21 p3453 N84-31911
Link between indexes for mental work capacity and parameters in circulatory system before and after physical stress 21 p3455 N84-31925
Effect of body temperature on human work capacity
21 p3455 N84-31926
Computer-based measurement of intellectual capabilities
[AD-A144065] 23 p3810 N84-34162

MENTAL STRESS
U STRESS (PSYCHOLOGY)

MERCAPTAN
U THIOLS

MERCAPTO COMPOUNDS
U THIOLS

MERCATOR PROJECTION
Path discrepancies between great circle and rhumb line
[NASA-TM-85522] 08 p1102 N84-17168

MERCURY (METAL)
Properties of mercury-cadmium-telluride solid solutions
[AD-A130224] 01 p0156 N84-11025
High resolution ultraviolet laser spectroscopy of mercury and helium 06 p0800 N84-15214
The possibilities of application of superconductors in electronics
[AD-A136488] 09 p1307 N84-18543
Field emission electric propulsion. Further testing of mercury as propellant
[IRA-83-P-6] 12 p1782 N84-21629
A detailed comparison of hydrogen and mercury embrittlement in Monel 400
[AD-A139119] 14 p2127 N84-23753
Electrochemical and surface studies of the deposition of mercury and selenium at a gold electrode
[DE84-007209] 15 p2299 N84-24798
First results of a MAUS experiment to investigate the stability of a metallic dispersion
17 p2612 N84-26724
Results of the Purdue University GAS-1 payload
18 p2799 N84-27760
Targeting geothermal exploration sites in the Mount St. Helens area using solid mercury surveys
[DE84-012547] 20 p3229 N84-30519

MERCURY (PLANET)
Mercury: New identification of ancient multi-ring basins and implications for geologic evolution
13 p2077 N84-23463
Ring spacing of Mercurian multi-ring basins and basin ring formation 13 p2078 N84-23464
Ode to gravity: Depth/diameter for fresh craters on Mercury 13 p2079 N84-23470
Mapping and geological analysis of Mercury radar data 13 p2089 N84-23532
Mercury: Topographic and geologic data from Earth-based radar observations
13 p2089 N84-23533
A geographic comparison of selected large-scale planetary surface features
[NASA-TM-86147] 22 p3679 N84-33320
Meteorite bombardment and dating of planetary surfaces
[NASA-TM-77558] 24 p3991 N84-35260

MERCURY ALLOYS
Theory of the electronic properties of mercury-cadmium-telluride alloys
[AD-A143426] 22 p3683 N84-33221

MERCURY ARCS
Arc discharge convection studies: A Space Shuttle experiment 18 p2799 N84-27761

MERCURY CADMIUM TELLURIDES
Thermal property measurement techniques and some results for CdTe
[AD-A131455] 02 p0299 N84-11959
HgCdTe surface study program
[AD-A132071] 03 p0349 N84-12266
Study of phase diagrams of ternary semiconductors
[AD-A133556] 06 p0923 N84-16000
Compositional segregation in unidirectionally solidified solid solution crystals 06 p0932 N84-16055
Assessment of the potential of Langmuir-Blodgett films for room temperature IR (infrared) detectors
[AD-A134616] 08 p1161 N84-17561
Growth of HgCdTe by modified molecular beam epitaxy
[AD-A137243] 10 p1588 N84-20407
Large plate CdTe synthesis by sealed vessel transport
[AD-A137514] 10 p1588 N84-20409

Producible alternative to CdTe for epitaxy (PACE-2) of LWIR HgCdTe
[AD-A138255] 12 p1914 N84-22468
Non-linear Fabry-Perot transmission in A CdHgTe etalon 14 p2239 N84-24437
Development and application of SIMS (Secondary Ion Mass Spectrometry) characterization techniques for the study of impurities and impurity motion in (HgCd)Te and CdTe
[AD-A140712] 17 p2619 N84-28759
Molecular beam epitaxy of HgCdTe
[AD-A141574] 19 p3110 N84-29761
Transient and diffusion analysis of HgCdTe
[NASA-CR-162049] 20 p3152 N84-30015
Physical properties of CdTe films grown by hotwall and molecular beam techniques
[AD-A143180] 22 p3662 N84-33214
Growth of CdTe/HgTe superlattice with the LADA (Laser Assisted Deposition and Annealing) techniques
[AD-A143948] 23 p3830 N84-34295

MERCURY COMPOUNDS
Spectroscopic studies of lasing transitions in the diatomic mercury halides
[AD-A131466] 02 p0226 N84-11481
Crystal growth and applications of mercuric iodide
[DE83-016731] 02 p0299 N84-11966
Mercuric 5-nitrotetrazole, a possible replacement for lead azide in Australian ordnance. Part 1: An assessment of preparation methods
[MRL-R-901] 05 p0661 N84-14344
Development of a mercuric iodide solid state spectrometer for X-ray astronomy
[NASA-CR-175330] 06 p0938 N84-16096
Excited state kinetics of mercury halides and mixtures with N2 and Xe
[AD-A135432] 08 p1124 N84-17310
Fluorescence and electron energy loss cross sections in mercuric bromide
[AD-A137153] 11 p1629 N84-20857

MERCURY ION ENGINES
Ion thruster project
[INPE-2803-PRE/363] 02 p0186 N84-11205

MERGING ROUTINES
Compactness in semantics for merge and fair merge
[MC-IW-238/83] 13 p2035 N84-23199

MERIDIONAL FLOW
A comparison of baroclinic eddy heat-transport parameterizations to a simplified general circulation model 02 p0252 N84-11650
Turbine aerodynamic design using through-flow theory. Meridional through-flow calculation 06 p0840 N84-15474
Applications of through-flow theory — steam turbines 06 p0840 N84-15477
Wet steam flow in L. P. turbines — low pressure (LP) 06 p0841 N84-15483
Programs for calculating quasi-three-dimensional flow in a turbomachine blade row
[NASA-TM-83568] 06 p1098 N84-17138
Low latitude F-region studies using the OI6300 angstrom and 7744 angstrom nightglow measurements at Cachoeira Paulista, Brazil
[INPE-3025-PRE/463] 12 p1847 N84-22040
Optical system with reflective baffles
[NASA-CASE-ARC-11502-1] 16 p2557 N84-26400
Prognostic relationships for surface temperature anomalies in northern part of Pacific Ocean 18 p2858 N84-28148
A study of the influence of extra-tropical latitude systems on the climatic variability in Northeast Brazil
[INPE-3264-PRE/595] 24 p3922 N84-34825

MEROMORPHIC FUNCTIONS
NT ELLIPTIC FUNCTIONS
NT RATIONAL FUNCTIONS
The specific solutions of a uniform algebraic differential equation of the second order
[ISSN-0066-1953] 04 p0575 N84-13783
On the growth of the spherical derivative of a meromorphic function 04 p0575 N84-13785
Functions of uniformly bounded characteristic 04 p0577 N84-13802
The generalized Euler-Mascheroni constants
[NASA-TP-2264] 06 p0906 N84-15880
Unfoldings of foliations with multiform first integrals 14 p2210 N84-24269
Some observations concerning the zero-curves of the real and imaginary parts of Riemann's zeta function
[MC-ZW-201/83] 21 p3476 N84-32030

MESAS
NT BUTTES

MESFETS
U FIELD EFFECT TRANSISTORS

MESH
Adaptive mesh refinement for hyperbolic partial differential equations
[AD-A130162] 01 p0131 N84-10859
Practical three-dimensional mesh generation using transfinite interpolation 06 p0838 N84-15463
Propagation of flexural and membrane waves with fluid loaded NASTRAN plate and shell elements 06 p0860 N84-15602
Intrinsic adaptive mesh technique
[NASA-CR-175375] 06 p1217 N84-17941
Action of external interference-carrying field on nonuniform multiwire shield 17 p2635 N84-26859
Effects of nozzle and grid acceleration of corona wind on cooling of a vertical flat plate
[AD-A141224] 18 p2837 N84-28007
Local uniform mesh refinement with moving grids
[AD-A141782] 19 p3088 N84-29802
An improved accuracy general remapping algorithm
[DE84-004320] 20 p3282 N84-30837
Analysis of surface currents on the CTX mesh flux conserver
[DE84-007491] 20 p3305 N84-30969
Another attempt to overcome the bent element blues
[DE84-007785] 21 p3400 N84-31571
On the controlled approximation order from certain spaces of smooth bivariate splines
[AD-A142866] 21 p3472 N84-32004

MESH (MATHEMATICS)
U COMPUTATIONAL GRIDS

MESOMETEOROLOGY
Analysis and classification of mesoscale cloud and precipitation systems
[PB84-138999] 10 p1542 N84-20104
A numerical study of the coastal stratus cloud in a two-dimensioanl meso-scale model 17 p2733 N84-27371

MESONS
NT MUONS
NT PIONS
Proceedings of the 16th LAMPF Users-Group Meeting
[DE83-013215] 03 p0382 N84-12488
Meson-exchange Hamiltonian for NN scattering and isober-nucleus dynamics
[DE83-017974] 04 p0600 N84-13959

MESOPAUSE
Vertical and horizontal phase propagation in the mesopause region observed by the OI5577 angstrom, O/sub 2 atmospheric band, NaD and OH(8,3) band nightglow emissions
[INPE-3022-PRE/460] 12 p1846 N84-22035
Solar tides in the mesospheric sodium layer
[INPE-2942-TDL/151] 22 p3622 N84-32953

MESOSCALE PHENOMENA
NT JET STREAMS (METEOROLOGY)
Proceedings of the Workshop on Coastal Atmospheric Transport Processes
[DE83-015489] 02 p0244 N84-11601
Numerical simulation of convective scaling 03 p0406 N84-12660
Analytical investigation of meso-scale boundary layer forced by surface temperature variation in a stratified sheared atmosphere 04 p0562 N84-13702
Precipitation development in midlatitude cyclones: A study of cloud structures and processes 04 p0566 N84-13728
A numerical study of cloud and precipitation processes in mesoscale rainbands 04 p0566 N84-13729
A position paper: Mesoscale oceanography from GEOSAT
[AD-A132292] 04 p0569 N84-13749
Genesis and development of deep convective storms
[PB83-252452] 05 p0710 N84-14653
Utilization of satellite data in mesoscale models of severe weather
[NASA-CR-175122] 06 p0881 N84-15730
Analysis of severe storm data
[NASA-CR-170947] 06 p0881 N84-15732
Investigation of the arc cloud complex 06 p0928 N84-16029
Baroclinic inertial instability in the non-static equilibrium atmosphere
[BLL-TRANS-1568-(9022.552)] 08 p1189 N84-17751
Frontogenesis in a moist atmosphere
[PB84-104066] 08 p1193 N84-17779
An estimation method of vertical diffusion parameters in the mesoscale range
[AD-A136498] 09 p1345 N84-18787
Theory and modeling of atmospheric turbulence, part 1
[NASA-CR-3787] 09 p1348 N84-18805
The relation between the gravity current in the atmospheric boundary layer and local heavy rainfall
[AD-A137193] 10 p1539 N84-20086
Comprehensive analyses of variances of meteorological fields over Southern Bavaria
[DFVLR-FB-83-31] 10 p1541 N84-20097
Numerical study of mesoscale convective complexes
[PB84-136506] 10 p1541 N84-20102
Frontogenesis in a moist atmosphere 10 p1542 N84-20106
Analysis and classification of mesoscale cloud and precipitation systems 10 p1542 N84-20107
The Role of Eddies in the General Ocean Circulation: Proceedings of Aha Huliko's Hawaiian Winter Workshop
[AD-A137212] 11 p1689 N84-21014
Recent work and thoughts on eddy-mean flow interaction
[AD-P002651] 11 p1689 N84-21016
Estimation and prediction of oceanic eddy fields
[AD-P002652] 11 p1689 N84-21017
Oceanic mesoscale variability and general circulation from satellite altimetry: A status report
[AD-P002653] 11 p1689 N84-21018
Simulation of midlatitude variability
[AD-P002655] 11 p1690 N84-21020
The impact of Gulf Stream rings upon the Slope Water
[AD-P002662] 11 p1691 N84-21027
Generation of mesoscale hydrodynamic phenomena by the Grappler and Whiting Seamounts, southeast of Puerto Rico
[PB84-148196] 12 p1863 N84-22140
Effects of mesoscale weather distrubances on contamination concentrations
[DE84-005753] 13 p2010 N84-23036
A statistical evaluation and comparison of VISSR Atmospheric Sounder (VAS) data and corresponding rawinsonde measurements
[NASA-TM-82575] 13 p2016 N84-23071
World Weather Watch Planning report no. 38: Very short range forecasting: Observations, methods and systems
[WMO-621] 15 p2371 N84-25226
Research in oceanography
[AD-A139690] 15 p2373 N84-25237
Real time divergence measurement from single Doppler radar
[AD-A140558] 17 p2653 N84-26966
The MST radar technique: Requirements for operational weather forecasting 17 p2682 N84-27077
The MST radar technique: A tool for investigations of turbulence spectra 17 p2686 N84-27117
The satellite altimeter as a platform for observation of the oceanic mesoscale 17 p2716 N84-27299
Simulation and assimilation of satellite altimeter data at the oceanic mesoscale 17 p2720 N84-27312
A numerical study of the coastal stratus cloud in a two-dimensioanl meso-scale model 17 p2733 N84-27371
Hydrographic data from the OPTOMA (Ocean Prediction Through Observations, Modeling and Analysis) program OPTOMA2, legs I and II, 31 July - 14 August, 1982
[AD-A141547] 19 p3061 N84-29424
Ocean circulation studies 20 p3222 N84-30469
Soil moisture from temperature measurements at the Earth's surface, update 20 p3222 N84-30474
Objective analysis and prediction techniques, 1983
[AD-A142441] 20 p3245 N84-30599
Synoptic scale wind field properties from the SEASAT SASS
[E84-10189] 21 p3426 N84-31732
Applications of the AVE-SESAME data sets to mesoscale studies
[NASA-CR-3819] 21 p3446 N84-31886
Doppler-radar observation of the evolution of downdrafts in convective clouds
[NASA-CR-173874] 21 p3450 N84-31896
A kinetic energy study of the meso beta-scale storm environment during AVE-SESAME 5 (20-21 May 1979)
[NASA-CR-3820] 23 p3800 N84-34090
Initialization of a mesoscale model for April 10, 1979, using alternative data sources
[NASA-CR-3826] 24 p3921 N84-34815
NASA/MSFC FY-84 Atmospheric Processes Research Review
[NASA-CP-2329] 24 p3923 N84-34829
Overview of mesoscale research Doppler lidar activities 24 p3928 N84-34863
Regional scale simulation of atmospheric structure using VAS data 24 p3929 N84-34869
An apllication of VISSR atmospheric sounder (VAS) data in mesoscale analysis 24 p3930 N84-34874
Mesoscale ageostrophic circulations associated with baroclinic jet streaks 24 p3930 N84-34875
Numerical simulation of mesoscale precipitation 24 p3930 N84-34876
Studies of midaltitude cyclone structure with SEASAT scanning multichannel microwave radiometer 24 p3930 N84-34877
Cloud scale influences on mesoscale precipitation patterns 24 p3930 N84-34879
Applications of the AVE-Sesame data sets to mesoscale studies 24 p3931 N84-34886
Satellite Precipitation and Cloud Experiment (SPACE) 24 p3931 N84-34887

Radar analyses of mesoscale meteorological phenomena during the AVE/VAS correlation field experiment 24 p3932 N84-34889
Automated mesoscale winds derived from GOES multispectral imagery 24 p3933 N84-34895

MESOSPHERE
Tidal and solar cycle effects on the OI 5577 angstrom, NaD and OH(8,3)airglow emissions observed at 23 deg S
[INPE-2901-PRE/419] 02 p0248 N84-11620
On the horizontal and vertical variability of the vertical turbulent eddy diffusion coefficients in the mesosphere
[AD-A137677] 11 p1687 N84-21002
Tidal oscillations in the atmospheric sodium layer
[INPE-3008-PRE/454] 12 p1846 N84-22033
Baroclinic instability in the stratosphere and mesosphere 17 p2683 N84-27082
Mesospheric scatter and its microstructure 17 p2684 N84-27090
Jicamarca mesospheric observations 17 p2686 N84-27100
Origin of refractive index fluctuations in the mesosphere as opposed to the stratosphere and troposphere 17 p2686 N84-27101
Solar control of winter mesospheric echo occurrence at Poker Flat, Alaska 17 p2686 N84-27102
Nighttime mesospheric returns associated with a large scale flare event 17 p2686 N84-27103
Evidence for parallel elongated structures in the mesosphere 17 p2689 N84-27122
Mesospheric turbulence intensities measured with a HF radar at 35 deg S. Part 2 17 p2689 N84-27128
Capabilities and limitations of the Jicamarca radar as an MST radar 17 p2690 N84-27130
Complementary code and digital filtering for detection of weak VHF radar signals from the mesoscale — SOUSY-VHF radar, Harz Mountains, Germany 17 p2690 N84-27134
Design considerations for MST radar antennas 17 p2693 N84-27153
Directivity and spacing for the antenna elements 17 p2693 N84-27154
School of Electrical Engineering. 17 p2694 N84-27156
Data processing techniques used with MST radars: A review 17 p2694 N84-27159
Decoding: Codes and hardware implementation 17 p2694 N84-27160
Coherent integration 17 p2695 N84-27162
Real-time MST radar signal processing using a microcomputer running under FORTH 17 p2695 N84-27165
Review of correlation techniques 17 p2695 N84-27166
A three-dimensional dynamical-chemical model of the mesosphere and lower thermosphere for upper atmospheric research
[AD-A142200] 19 p3054 N84-29379
Resistance of microorganisms from mesosphere to periodic freezing-thawing 22 p3830 N84-33001

MESSAGE PROCESSING
Communication techniques: Measuring technique principles and application examples 05 p0671 N84-14410
Design and implementation of software protocol in VAX/VMS using ethernet local area network
[AD-A133699] 05 p0728 N84-14778
Analyzing the roles of descriptions and actions in open systems
[AD-A133614] 06 p0905 N84-15878
Preserving asymmetry by symmetric processes and distributed fair conflict resolution
[AD-A135458] 09 p1223 N84-17986
An iteration algorithm for optimal network flows
[AD-A136183] 09 p1304 N84-18523
A dual digital to video converter for avionics symbology and messages
[AD-A138383] 12 p1771 N84-21547
Formal specification and verification of distributed system
[AD-A139305] 14 p2203 N84-24220
A study of the feasibility of duplicating JAMPS applications software in the Ada programming language
[AD-A140884] 17 p2753 N84-27477
Enhanced safety by means of clear information on hazards and operational disturbances by a plain language communication device
[BMFT-FB-HA-84-010] 18 p2830 N84-27971
Understanding a technical language: A schema-based approach
[NASA-TM-85868] 19 p3070 N84-29478
SREM (Software Requirements Engineering Methodology) evaluation, volume 1
[AD-A141631] 19 p3077 N84-29525
SREM (Software Requirements Engineering Methodology) evaluation. Volume 2: Specifications and technical data
[AD-A141632] 19 p3078 N84-29526
Capacity of generalized mismatched Gaussian channels
[AD-A141399] 19 p3083 N84-29569
Decentralized estimation in communication networks with delay
[AD-A142376] 20 p3174 N84-30155
High speed low-cost ways to get messages from a sender to a receiver when some channels linking them become inoperative
[AD-A142831] 21 p3386 N84-31488
Random multiple access methods in multi-user communication systems 22 p3571 N84-32616
Extending binary Byzantine agreement to multivalued Byzantine agreement
[AD-A143424] 22 p3640 N84-33077

MESSAGES
Synopsis and recommendations of the TSC Workshop on differential operation of NAVSTAR GPS, June 1983
[PB84-121599] 06 p1103 N84-17170
High speed low-cost ways to get messages from a sender to a receiver when some channels linking them become inoperative
[AD-A142831] 21 p3386 N84-31488

METABOLIC WASTES
NT FECES
NT HUMAN WASTES
NT URINE

METABOLISM
NT ADRENAL METABOLISM
NT CALCIUM METABOLISM
NT CARBOHYDRATE METABOLISM
NT CATABOLISM
NT ELECTROLYTE METABOLISM
NT ENZYME ACTIVITY
NT FERMENTATION
NT HORMONE METABOLISMS
NT MINERAL METABOLISM
NT OXYGEN METABOLISM
NT PHOSPHORUS METABOLISM
NT PROTEIN METABOLISM
Device for graded exercising of rats in pressure chamber 02 p0262 N84-11719
Ozone toxicity effects consequent to prolonged, high intensity exercise
[PB83-237388] 02 p0267 N84-11755
Proceedings of the 13th Conference on Environmental Toxicology
[AD-A134150] 07 p1027 N84-16857
Study of metabolic sequelae of using positive intrapulmonary pressure during exposure to accelerations 07 p1045 N84-16776
Metabolic disturbances in man in an environment with low ammonia level and their correction by graded physical exercise 07 p1045 N84-16780
Metabolism and nutritional status in emergency situations without food supply or on a low-calorie diet 07 p1046 N84-16781
Plant waste processing on a solid substrate for a biological life-support system for man 07 p1046 N84-16786
Energy balance and the composition of weight loss during prolonged space flight
[NASA-CR-171745] 08 p1199 N84-17820
Behavioral change of blood lactate metabolism
[PB84-100171] 08 p1204 N84-17850
NASA Space Biology Program. Eighth annual symposium's program and abstracts
[NASA-CP-2299] 09 p1351 N84-18829
Bone loss in tail-suspended rats in restricted to the unweighted limbs 09 p1353 N84-18843
Gravity, body mass and composition, and metabolic rate 09 p1355 N84-18854
Hyper-gravitational effects on metabolism and thermoregulation 09 p1358 N84-18871
Metabolic characteristics of post-exercise ketosis: The protective effects of training 10 p1549 N84-20152
The effects of organophosphorus anticholinesterase compounds on brain glucose and energy metabolism
[AD-A137819] 11 p1695 N84-21058
Sustained physical activity in diverse situations: Metabolic and hormone data 11 p1698 N84-21077
Skeletal muscle metabolism of sea-level natives following short-term high-altitude residence
[AD-A139323] 15 p2360 N84-25284
Use of vitamins during adaptation to high altitudes 20 p3252 N84-30843
Innovations in cosmonaut medical monitoring, physical conditioning 21 p3347 N84-31229
Cerebral metabolism and blood brain transport: Toxicity of organophosphorous compounds
[AD-A142705] 22 p3630 N84-33005
Mechanical force and cartilage metabolism 23 p3806 N84-34147

METABOLITES
Stress biochemistry: Non-invasive measurement techniques in military subjects
[AD-A141598] 19 p3065 N84-29447

METAGALAXY
U UNIVERSE

METAL AIR BATTERIES
Iron-air battery development
[DE83-015842] 01 p0073 N84-10482
Design analysis of an aluminum-air battery for vehicle operations: Transportation systems research
[DE83-014488] 01 p0163 N84-11071
Chemically rechargeable battery
[NASA-CASE-NPO-16024-1] 13 p2007 N84-23020
Aluminum-air research and development program. Summary report for FY 1982
[DE84-008360] 14 p2142 N84-23848
Estimate of the consumer cost of aluminum fuel for electric vehicles
[DE84-008327] 15 p2421 N84-25539
Development of hydrocyclones for aluminum/air battery applications
[DE84-011403] 20 p3179 N84-30197
Technology base research project for electrochemical energy storage
[DE84-012248] 21 p3393 N84-31535
Project summaries, supplement
[DE84-013678] 23 p3744 N84-33734

METAL BONDING
NT METAL-METAL BONDING
A critical study of the role of the surface oxide layer in titanium bonding
[NASA-CR-174531] 01 p0041 N84-10286
Studies of silicon refractory metal interfaces: Photoemission study of interface formation and compound nucleation
[AD-A135340] 08 p1131 N84-17358
Furnace brazing: A mass production method for producing high strength joints 09 p1292 N84-18434
Superplastic bonding and ultrahigh carbon steel laminated composites
[AD-A137807] 11 p1627 N84-20651
Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] 11 p1632 N84-20670
Thermal contacts between metal and glass for use at cryogenic temperatures
[NASA-TM-85856] 12 p1907 N84-22423
Characterization of aluminum oxide layers
[MBB-BB-549-83-O] 16 p2561 N84-26433
Ceramic to metal attachment system — magnetohydrodynamic generators
[DE84-011095] 20 p3163 N84-30085
HgCdTe surface and defect study program
[AD-A142342] 20 p3308 N84-31010
Clad cast steel strip
[DE84-014245] 23 p3719 N84-33574
Impacting device for testing insulation
[NASA-CASE-MFS-25862-2] 23 p3756 N84-33807
Introduction to composite materials
[AD-A144274] 24 p3879 N84-34578

METAL COATINGS
NT ALUMINUM COATINGS
NT GOLD COATINGS
NT NICKEL COATINGS
NT ZINC COATINGS
Fundamental research directed to advanced high temperature coating systems beyond the current state-of-the-art systems
[AD-A131618] 02 p0194 N84-11261
Chemical conversion surfaces for solar-energy applications
[DE84-000107] 04 p0558 N84-13681
The structure and behavior of vacuum plasma sprayed overlay coatings on nickel based superalloys
[AD-A132631] 05 p0654 N84-14301
Electromagnetic shielding of full-sized structures by metal arc spraying
[AD-A132883] 05 p0663 N84-14357
Electrodes for solid state devices
[NASA-CASE-NPO-15161-1] 07 p0996 N84-16456
Adhesion studies on ion plated TIN steel
[BLL-RISLEY-TR-4880-(9091.9F)] 08 p1129 N84-17341
Electroplated metal coatings produced by fused salt electrolysis
[BLL-OA-TRANS-3140-(6196.3)] 09 p1281 N84-18366
A melt for electrolytic tungsten plating — using a carbamide base and ammonium chloride
[BLL-OA-TRANS-3160-(6196.3)] 09 p1281 N84-18369

Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] 11 p1632 N84-20670
The ductility of metal diffusion coatings on nickel alloys and their characterization
[BLL-RISLEY-TRANS-4883] 12 p1795 N84-21706
Quality and reliability of steel wire ropes
[BLL-M-35461-(5828.4)] 12 p1821 N84-21872
Ion plating as a deposition method for tribological coatings
[VTT-13] 15 p2296 N84-24778
Coating of self-catalytic nickel on aluminum and aluminum alloys
[AD-A140697] 17 p2623 N84-26791
Thermally-sprayed active metal coatings for corrosion protection in marine environments
[AD-A140783] 17 p2624 N84-26795
Modeling degradation and failure of Ni-Cr-Al overlay coatings
[NASA-TM-83672] 18 p2813 N84-27858
Long-term materials test program
[DE84-006899] 18 p2815 N84-27870
Development of protective coatings obtained by low pressure plasma spraying 18 p2934 N84-28607
A mathematical model of the formation of powdered metal coatings on castings
[BLL-M-35596-(5828.4)] 19 p2991 N84-28955
Fast turn-on osmium coated cathode
[AD-D011036] 19 p3018 N84-29134
Laser-assisted solar cell metallization processing
[NASA-CR-173764] 19 p3050 N84-29354
Laser-assisted solar cell metallization processing
[NASA-CR-173763] 19 p3050 N84-29355
Engineering properties of some coatings
[DE84-002715] 21 p3371 N84-31390
Metal coating of diamond abrasives (review of foreign patents)
[CSIR-TRANS-1740] 22 p3552 N84-32489
Effect of formation conditions and contact zone structure on adhesion strength of carbide forming metal coatings on diamond
[CSIR-TRANS-1735] 22 p3552 N84-32492
Coatings on diamond and CBN abrasives (review of inventions)
[CSIR-TRANS-1742] 22 p3557 N84-32525
Platinum group coatings for refractory metals
[AD-A143792] 23 p3718 N84-33568
Development of metallization process
[NASA-CR-173956] 23 p3786 N84-34014
Matched evaporation of alloys in a vacuum 24 p3873 N84-34543

METAL COMPOUNDS
Alkane soluble transition metal complexes
[AD-A137252] 10 p1458 N84-19525

METAL CORROSION
U CORROSION

METAL CRYSTALS
Thermodynamic estimation of influence of alloying on sticking fault energy of bcc metals
[BLL-M-30130-(5828.4)] 01 p0151 N84-10995
Different sensitivity of s- and d-electron energy levels to a change in lattice parameters in transition metals
[BLL-M-35116-(5828.4)] 01 p0151 N84-10996
Structural properties of epitaxial single layer metals on (110) B.C.C. metal substrates 06 p0817 N84-15326
Terrestrial whisker growth experiments which anticipate some special effects of a space station environment
[NASA-CR-175440] 11 p1627 N84-20647
Topographic EXAFS
[AD-A137116] 12 p1915 N84-22475
Chemical modification of surfaces: The effect of potassium on the chemisorption of molecules on transition metal crystal surfaces
[DE84-006345] 14 p2244 N84-24473
Deformation of bimetallic bicrystals of Alpha-Ti/Beta-Ti-13Mn
[AD-A140263] 16 p2469 N84-25822
Elementary processes in the catalytic combustion of methane (mechanism, intermediates and controlling reactions)
[PB84-181965] 17 p2620 N84-26770
Some fundamental aspects of solidification in a supercooled melt
[NASA-TM-83714] 17 p2623 N84-26787
Noise of 1/f form in polycrystalline aluminum films 17 p2633 N84-26843
Crystal-field splittings of the Hund ground states of ndN ions in S4 symmetry: Theory and application to the Ge-3+ Gd-3Sc-2Ga-3O-12
[AD-A140623] 17 p2768 N84-27574
Model catalytic studies using metal single crystals
[DE84-010267] 18 p2812 N84-27850
Scattering of ultrasound by minority phases in polycrystalline metals
[AERE-R-11162] 18 p2929 N84-28574
Crystalline effects in Auger electron spectroscopy
[AERE-R-11051] 18 p2942 N84-28658
Laser furnace technology for zone refining
[NASA-TM-86459] 22 p3600 N84-32805
Characterization of erosion of metallic materials under cavitation attack in a mineral oil
[NASA-TP-2368] 22 p3603 N84-32825

METAL CUTTING
Cold-form tapping of internal threads 09 p1292 N84-18435
Thermal properties of coating materials and their effect on the efficiency of coated cutting tools 09 p1292 N84-18440
Economic roughing and finish milling with end mills made of high speed tool steel class HSSE: High cobalt alloyed 09 p1292 N84-18442
High speed steel special cutting tools: Their design and application 09 p1292 N84-18443
Broaching today 09 p1293 N84-18450
Laser cutting: An advanced technology in sheet metal working 09 p1293 N84-18452
Novel technological solutions to treatment of threads in micrometric measuring tools 17 p2641 N84-26900
Electric arc saw apparatus
[DE84-006153] 20 p3198 N84-30306
Turning of hardened ferrous materials with homogeneous CBN tool tips
[CSIR-TRANS-1728] 21 p3375 N84-31418
Lubrication during cutting: Wear and friction
[CETIM-13-Y-322] 21 p3414 N84-31653
Discussion of superplasticity effect 24 p3878 N84-34583

METAL DRAWING
Improvement of manufacturing of drawn and ironed steel cans
[BMFT-FB-T-83-084] 02 p0198 N84-11286
Analysis of fracture modes during extrusion and drawing of bimetal rods or wire
[DE84-009849] 20 p3157 N84-30051

METAL FATIGUE
Fatigue crack growth and low cycle fatigue of two nickel base superalloys
[NASA-CR-174534] 01 p0042 N84-10267
Effect of crack curvature on stress intensity factors for ASTM standard compact tension specimens
[NASA-CR-168280] 02 p0231 N84-11513
Influence of a flowing-lithium environment on the fatigue and tensile properties of type 316 stainless steel
[DE84-000611] 04 p0503 N84-13295
Elevated temperature low cycle fatigue of nickel base superalloys in the conventionally cast, directionally solidified and single crystal forms
[AD-A133598] 06 p0806 N84-15253
Fatigue crack propagation in Al-alloy lugs under constant amplitude and maneuver spectrum loading
[TAE-497] 06 p0857 N84-15585
Stress intensity factors in lugs (through-thickness cracks)
[ESDU-81029] 07 p1014 N84-16579
Preliminary study of thermomechanical fatigue of polycrystalline MAR-M 200
[NASA-TP-2280] 08 p1130 N84-17350
The study and modeling of high temperature fatigue crack propagation in austenitic stainless steel
[DE84-005391] 10 p1462 N84-19552
Role of microstucture in hydrogen assisted cracking 11 p1631 N84-20667
Literature survey on oxidations and fatigue lives at elevated temperatures
[NASA-CR-174639] 11 p1633 N84-20674
Acta aeronautica et astronautica sinica (selected articles
[AD-A138531] 12 p1764 N84-21506
Cyclic deformation and fatigue of monocrystalline Ni-base superalloys
[AD-A138052] 12 p1797 N84-21724
A theoretical analysis of the influence of crack dimensions and geometry on mass transport in corrosion fatigue cracks
[NPL-DMA(A)-69] 12 p1825 N84-21897
Review of the effects of microstructure on fatigue in aluminum alloys
[NASA-TM-83626] 13 p1960 N84-22735
Statistical and vibratory fatigue limit characteristics of aluminum cast alloys 14 p2093 N84-23558
Additionally compressed titanium fine cast components 14 p2094 N84-23559
Welding of components made of the aluminum cast alloy A357 14 p2094 N84-23561
Macroscopic appearance of vibratory fractures — metal fatigue 14 p2126 N84-23741
Microscopic appearance of vibratory fractures — metal fatigue 14 p2126 N84-23742
Resistivity and strain behavior during transformation cycling in nickel-titanium
[DE84-006840] 14 p2129 N84-23762
Effect of preferred orientation on crack growth properties of Ti-6Al-4V alloys, part 1
[BR89100-PT-1] 15 p2299 N84-24802
Cracking threshold on steel used in aeronautical construction: Influence of the environment
[SNIAS-832-551-101] 16 p2465 N84-25797
Random fatigue of steels: Sequence effects during the crack initiation phase
[BMFT-FB-T-84-040] 16 p2466 N84-25804
Study of the influence of metallurgical factors on fatigue and fracture of aerospace structural materials
[AD-A140659] 17 p2623 N84-26789
Multitechnique studies on fretting fatigue: Influence of surface treatment
[AD-A140612] 17 p2624 N84-26796
Fatigue considerations in view of measured load spectra
[AD-A140221] 17 p2679 N84-27067
Fatigue crack growth in austenitic stainless steel — cladding; PWR
[ND-R-802(S)] 18 p2813 N84-27856
Tensile strength and recrystallization of the 7010 and 7475 alloys: Low cycle fatigue of the 7010 alloy — aluminum alloys
[REPT-18/5069-M] 18 p2815 N84-27873
The use of novel processing procedures for improving the overall fatigue resistance of high strength aluminum alloys
[AD-A141107] 19 p2993 N84-28966
Failure by creep cracking and creep fatigue interaction in nickel base superalloys
[AD-A141112] 19 p2993 N84-28967
A review of crack closure
[AD-A142273] 19 p3036 N84-29261
Surface layer effects on the mechanical behavior of metals
[AD-A142260] 20 p3152 N84-30018
Creep-fatigue and temperature synergisms in alloy 800
[DE84-010131] 20 p3157 N84-30046
A new approach to the evaluation of the effects of stress state and interfacial properties on the behavior of advanced metal matrix composites
[AD-A143063] 21 p3357 N84-31294
Fatigue crack growth behavior of an oxide dispersion strengthened MA956 alloy
[AD-A142059] 21 p3421 N84-31702
Low-cycle fatigue of VT1-0 alloy and changes in its fine structure at temperatures of 293-4.2 deg K 23 p3708 N84-33509
Fatigue behavior at 650 deg of 20 percent-cold-worked type 316 stainless steel irradiated at 550 deg C in the HFIR
[DE84-014269] 23 p3718 N84-33572
Fatigue crack growth in vacuum and in gaseous media 24 p3870 N84-34529
Dependence of rate of growth in aqueous corrosive medium on electrochemical conditions at tip of crack 24 p3871 N84-34530
Modern methods of studying initial stage of fatigue fracture in metals 24 p3871 N84-34531
Predicting fatigue durability of duralumin specimens 24 p3874 N84-34550
Relationship of structure with cyclic crack resistance of Alpha-titanium alloys 24 p3875 N84-34557
Influence of conditions and medium of annealing on short-term strength and fatigue resistance of welded joints in OT4 titanium alloy 24 p3876 N84-34559
The use of adhesive-bonded rivets to lessen the reductions in fatigue life caused by rivet holes
[ARL-STRUC-REPT-399] 24 p3887 N84-34617
Optical and other property changes of M-50 bearing steel surfaces for different lubricants and additive prior to scuffing
[NASA-TM-83746] 24 p3888 N84-34620

METAL FIBERS
Friction and wear studies of liquid metal wetted, metallic fiber brushes
[AD-A143473] 22 p3604 N84-32831

METAL FILMS
Polymeric microelectronics
[AD-A130523] 01 p0049 N84-10317
Optical emission of exploding-film and wire-initiated discharges
[DE83-014154] 02 p0223 N84-11466
Optically pumped ultraviolet and infrared lasers driven by exploding metal films and wires
[DE83-014169] 02 p0226 N84-11484
Polymer degradation on reflecting metal films: Fourier transform infrared (FTIR) reflection-absorbance studies
[DE83-012129] 03 p0404 N84-12641
Sputtered C-axis inclined piezoelectric films and shear-wave resonators
[DE83-017253] 03 p0455 N84-12997

Study of 1/f noise in solids
[AD-A133856] 05 p0753 N84-14939
Amorphous zirconium-nickel films formed by solid state reactions
[DE84-003570] 07 p0976 N84-16326
Eddy current thickness gauge for reel-to-reel tape processes
[DE84-004050] 08 p1162 N84-17567
Picosecond laser pulse interactions with metallic and semiconductor surfaces
[AD-A135693] 09 p1395 N84-19112
Particle size effects on viscosity of silver pastes: A manufacturer's view 12 p1839 N84-21992
Metallization with generic metallo-organic inks 12 p1840 N84-21996
Dry etching of metallization 12 p1840 N84-21997
Thin metal film and multilayers experiment (A0136-3) 15 p2278 N84-24680
Corrosion behavior of ion plated films 17 p2621 N84-26777
Zero wear (selective mass transfer): New step toward higher wear resistance of machine parts 17 p2642 N84-26904
Thin film strain transducer
[NASA-CASE-WLP-10055-1] 18 p2836 N84-29015
RF sputtering and annealing of amorphous zinc telluride films
[USIP-84-04] 20 p3159 N84-30061
Adhesion between polymers and evaporated gold and nickel films
[NASA-TP-2360] 21 p3369 N84-31379
Effect of ion treatment of substrates on initial stage of buildup of metal films 21 p3378 N84-31439
Nonequilibrium segregation and phase instability in alloy films during elevated-temperature irradiation in a high-voltage electron microscope
[DE84-013423] 21 p3505 N84-32214
Fire blocking systems for aircraft seat cushions
[NASA-CASE-ARC-11423-1] 23 p3691 N84-33394
Glass heating panels and method for preparing the same from architectural reflective glass
[NASA-CASE-NPO-15753-1] 23 p3723 N84-33589

METAL FINISHING
NT ELECTROPOLISHING
NT PEENING
NT SHOT PEENING
Further abbreviation of the machining schedule for producing surface-damage-free beryllium
[DOE/TIC-4500-REV-69] 06 p0814 N84-15297
Fourth Seminar on Efficient Metal Forming and Machining
[ISBN-0-7988-2556-1] 09 p1292 N84-18438
Economic roughing and finish milling with end mills made of high speed tool steel class HSSE: High cobalt alloyed 09 p1292 N84-18442
Multitechnique studies on fretting fatigue: Influence of surface treatment
[AD-A140612] 17 p2624 N84-26796
Metal finishing and vacuum processes groups
[DE84-011046] 21 p3367 N84-31356

METAL FLUORIDES
NT CADMIUM FLUORIDES
NT CALCIUM FLUORIDES
NT LANTHANUM FLUORIDES
NT LITHIUM FLUORIDES
NT STRONTIUM FLUORIDES
NT URANIUM FLUORIDES

METAL FOAMS
Ultralight reactive metal foams produced as structural shapes in space: System design 18 p2801 N84-27777

METAL FOILS
Tensile testing apparatus
[NASA-CASE-LAR-13243-1] 11 p1656 N84-20804
Interactions of fast atomic and molecular ions with matter
[DE84-006555] 15 p2405 N84-25438
Residual mechanical properties of Ti-6Al-4V after simulated Space Shuttle reentry
[NASA-TM-86294] 22 p3554 N84-32506

METAL FORGING
U FORGING

METAL FORMING
U FORMING TECHNIQUES
U METAL WORKING

METAL FUELS
USSR report: Space
[JPRS-USP-84-004] 21 p3347 N84-31228
Advantages of metallic fuels for rocket propulsion 21 p3348 N84-31237

METAL GRINDING
The Grindomatic or the optimization of cutting conditions during production for plunge-cut grinding
[CRIF-MC-76] 07 p1012 N84-16569
Wheel efficiency in the diamond-spark erosion grinding of tungsten carbides
[CSIR-TRANS-1693] 08 p1140 N84-17418
Dressing methods for grinding wheels made of superhard abrasive materials
[CSIR-TRANS-1700] 08 p1141 N84-17419
Fourth Seminar on Efficient Metal Forming and Machining
[ISBN-0-7988-2556-1] 09 p1292 N84-18438
Creep feed grinding: Advanced profile grinding technology 09 p1292 N84-18439
Economical grinding of steel and sintered carbides using superhard abrasives and high temperature-resistant bonds
[CSIR-TRANS-1744] 22 p3563 N84-32562

METAL HALIDES
NT ALKALI HALIDES
NT ALUMINUM CHLORIDES
NT CADMIUM FLUORIDES
NT CALCIUM CHLORIDES
NT CALCIUM FLUORIDES
NT CESIUM IODIDES
NT COPPER CHLORIDES
NT FLUORSPAR
NT IRON CHLORIDES
NT LANTHANUM FLUORIDES
NT LITHIUM CHLORIDES
NT LITHIUM FLUORIDES
NT POTASSIUM CHLORIDES
NT SILVER BROMIDES
NT SILVER HALIDES
NT SODIUM CHLORIDES
NT STRONTIUM FLUORIDES
NT URANIUM FLUORIDES
NT ZINC CHLORIDES
Terrestrial whisker growth experiments which anticipate some special effects of a space station environment
[NASA-CR-175440] 11 p1627 N84-20647
Metal dissolution kinetics in halide melts
[DE84-004030] 19 p2995 N84-28977

METAL HARDENING
U HARDENING (MATERIALS)

METAL HYDRIDES
NT LITHIUM HYDRIDES
Heat/mass flow enhancement design for a metal hydride assembly, phase 2
[DE84-007162] 13 p1990 N84-22920
Mechanical properties of metal hydrides
[AD-A141496] 19 p2994 N84-28970
Hydrogen storage in the form of metal hydrides
[NASA-TM-77453] 19 p3050 N84-29356
Rationalizing the hydrogen sites in Pd3P sub 1-xH sub y
[DE84-009159] 19 p3112 N84-29774
Liquid suspensions of reversible metal hybrides
[DE84-014358] 24 p3881 N84-34586

METAL INSULATOR SEMICONDUCTORS
U MIS (SEMICONDUCTORS)

METAL IONS
NT FERRIC IONS
NT MANGANESE IONS
Precipitation of metals from solutions by baser metals
[CSIR-1712] 06 p0804 N84-15242
Metal oxide anodes for the photoelectrochemical generation of oxygen
[DE84-004168] 10 p1456 N84-19511
Structure of glasses containing transition metal ions
[DE84-004211] 10 p1468 N84-19591
Process for improving moisture resistance of epoxy resins by addition of chromium ions
[NASA-CASE-LAR-13226-1] 11 p1636 N84-20700
Emission properties of highly ionized iron spectra for spectroscopic plasma diagnostics 11 p1735 N84-21314
Electron paramagnetic resonance (EPR) study of calcite (CaCO3) containing both Mn-2+ and Pb-2+ cations 15 p2401 N84-25413
Metal-chelate polymers: Structural/property relationships as a function of the metal ion
[AD-A140205] 16 p2471 N84-25839
Electropositive bivalent metallic ion unsaturated polyester complexed polymer concrete
[DE84-011080] 20 p3146 N84-29979
Raman and infrared spectroscopy of molecules adsorbed on metal electrodes
[AD-A143466] 22 p3547 N84-32454
Process for improving mechanical properties of epoxy resins by addition of cobalt ions
[NASA-CASE-LAR-13230-1] 24 p3878 N84-34571

METAL JOINTS
NT SOLDERED JOINTS
NT WELDED JOINTS
Development of fatigue and crack propagation design and analysis methodology in a corrosive environment for typical mechanically-fastened joints. Volume 1: Phase I documentation
[AD-A136414] 09 p1331 N84-18691
Development of fatigue and crack propagation design and analysis methodology in a corrosive environment for typical mechanically-fastened joints. Volume 2: State-of-the-art assessment
[AD-A136415] 09 p1331 N84-18692
Corrosion and load transfer effects on fatigue of mechanically fastened joints. Fatigue of zero load transfer specimen
[AD-A139042] 13 p2001 N84-22985
The locus of environmental crack growth in bonded aluminium alloy joints
[AERE-R-11069] 18 p2816 N84-27980
Sodium compatibility of refractory metal alloy/304L braze joints
[DE84-012877] 21 p3368 N84-31364

METAL MATRIX COMPOSITES
NT EUTECTIC COMPOSITES
Metal matrix composite structural panel construction
[NASA-CASE-LAR-12807-1] 02 p0187 N84-11214
Cold sintering: A new powder consolidation process
[AD-A131687] 03 p0353 N84-12292
Bending fatigue of a particulate SiC/Al 6061 metal matrix composite
[AD-A134108] 05 p0653 N84-14293
Fracture behavior of unidirectional boron/aluminum composite laminates
[NASA-CR-3753] 06 p0797 N84-15196
Arc spray fabrication of metal matrix composite monotape — high temperature fiber-reinforced superalloy composites
[NASA-CASE-LEW-13828-1] 06 p0798 N84-15203
A contribution to the manufacture and characteristics of steel-wire-reinforced aluminum
[NASA-TM-78977] 07 p0974 N84-16310
A technique for the nondestructive detection of voids and composition anomalies in metal matrix composite wires using X or gamma rays
[AD-A135481] 08 p1132 N84-17359
In-plane shear properties of a fabric-CFRP/aluminum-honeycomb sandwich construction
[NAL-TR-773] 09 p1275 N84-18327
Characterization of selected properties for alumina-aluminum metal matrix composites
[AD-A135580] 09 p1283 N84-18377
Acta aeronautica et astronautica sinica (selected articles
[AD-A138531] 12 p1764 N84-21506
Analysis of stress-strain, fracture and ductility behavior of aluminum matrix composites containing discontinuous silicon carbide reinforcement
[NASA-TM-83610] 12 p1789 N84-21666
Microscopic study of the influence of impurities on interface bonding
[AD-A139300] 14 p2120 N84-23705
The strength of the metal. Aluminum oxide interface 14 p2153 N84-23898
Plasticity of laminated composites 15 p2308 N84-24849
Materials research for advanced inertial instrumentation. Task 2: Gas bearing material development
[AD-A140435] 16 p2446 N84-25690
Melting and solidification of metallic composites 17 p2613 N84-26726
Microstructure and orientation effects on properties of discontinuous silicon carbide/aluminum composites
[NASA-TP-2302] 17 p2617 N84-26749
Residual strength of five boron/aluminum laminates with crack-like notches after fatigue loading
[NASA-CR-3815] 21 p3357 N84-31290
A new approach to the evaluation of the effects of stress state and interfacial properties on the behavior of advanced metal matrix composites
[AD-A143083] 21 p3357 N84-31294
Nonlinear analysis for high-temperature composites: Turbine blades/vanes 21 p3421 N84-31699
Loss factors measured in metal matrix composite materials
[AD-A143542] 22 p3545 N84-32440
Microstructural development and control in liquid phase sintering; processing, structures and properties of cold worked metal matrix composites
[AD-A143188] 22 p3555 N84-32509
Potential of metal-matrix composites as superalloy substitutes 23 p3703 N84-33474
Evaluation of the effects of stress state and interfacial properties on the behavior of advanced metal matrix composites
[AD-A143911] 23 p3711 N84-33525
Development of metallization process
[NASA-CR-173956] 23 p3786 N84-34014

Introduction to composite materials
[AD-A144274] 24 p3879 N84-34578

METAL OXIDE SEMICONDUCTORS
NT CHARGE COUPLED DEVICES
NT CHARGE TRANSFER DEVICES
NT CMOS
Electronics research at the University of Texas at Austin
[AD-A131130] 02 p0213 N84-11397
Development of technologies for highly integrated circuits
[BMFT-FB-T-83-142] 02 p0216 N84-11417
Monolithic integrated analog switching arrays
[BMFT-FB-T-83-146] 02 p0216 N84-11418
Laser activated MTOS microwave device
[NASA-CASE-NPO-16112-1] 03 p0378 N84-12463
Hole trapping, recombination, and space charge in irradiated Sandia oxides
[DE83-015212] 03 p0454 N84-12966
Applications of analog Charge Coupled Devices (CCD's)
[BMFT-FB-T-83-141] 03 p0456 N84-13002
A rectangular gate merged MOSBJT
[AD-A132450] 04 p0525 N84-13453
The BJT-JFET: A novel merged device structure
[AD-A132373] 04 p0525 N84-13454
A large and small signal charge storage model for an enhancement mode M.O.S. field effect transistor 05 p0672 N84-14418
Statistical simulation of GaAs MESFETS
[AD-A133923] 05 p0674 N84-14428
Study of the physics of insulating films as related to the reliability of metal-oxide semiconductor devices
[AD-A133674] 05 p0754 N84-14944
Evaluation of radiation damage to Metal-Oxide-Semiconductor (MOS) devices
[AD-A133593] 06 p0923 N84-16002
Logic simulator program 06 p0927 N84-16023
Simulation tools for digital LSI (Large Scale Integration) design
[AD-A136116] 09 p1369 N84-18938
A thousand-word speech-recognition system using special-purpose MOS-LSI 09 p1399 N84-19140
Development of microcomputer compatible power switches
[BMFT-FB-T-83-277] 10 p1488 N84-19731
Integrated filters in MOS technology — CMOS
[BMFT-FB-T-83-194] 10 p1590 N84-20419
Reliability assurance using test structures, phase 2 — MOS testing
[ESA-CR(P)-1827-VOL-1] 12 p1825 N84-21894
Reliability assurance using test structures, phase 3 — MOS testing
[ESA-CR(P)-1827-VOL-2] 12 p1825 N84-21895
High speed, low power MOS technologies
[BMFT-FB-T-83-289] 12 p1916 N84-22484
Technology of the radiation hardened MOS devices
[AD-A138995] 13 p2047 N84-23283
The new method of implementation for ternary logic system
[AD-P002332] 14 p2190 N84-24123
Some device count comparisons for reduced control stores using MOS (Metal-Oxide Semiconductor) circuits
[AD-P002361] 14 p2193 N84-24152
Investigation of charge coupled devices for signal processing
[AD-A139620] 15 p2329 N84-24985
Studies on sub-micron devices with emphasis on MOS systems
[DE84-010029] 15 p2415 N84-25499
The MOSIS (MOS implementation) system (What it is and how to use it)
[AD-A139744] 15 p2418 N84-25517
The 2-D impurity states associated with inversion layers
[INPE-3081-PRE/493] 16 p2559 N84-26417
Air as an adjustable insulator for C-V and G-V analysis of semiconductor surfaces
[AD-A141437] 19 p3013 N84-29099
Ballistic transport in submicron silicon mosfets
[AD-A142036] 19 p3111 N84-29766
Contribution to the low temperature study of MOS transistors (10K-77K)
[ENST-83E017] 19 p3113 N84-29781
Research in monolithic, signal-processing circuits
[AD-A143204] 22 p3586 N84-32709
Submicron structures technology and research 22 p3683 N84-33353
Quantitative determination of gaseous air pollutants by semiconducting sensors
[BMFT-FB-T-84-113] 23 p3793 N84-34058
Joint services electronics program
[AD-A144444] 24 p3898 N84-34684
Impurity states in the presence of an interface
[DE84-701192] 24 p3967 N84-35123

METAL OXIDES
NT ALUMINUM OXIDES
NT BERYLLIUM OXIDES
NT BISMUTH OXIDES
NT CALCIUM OXIDES
NT CERIUM OXIDES
NT CHROMITES
NT CHROMIUM OXIDES
NT COBALT OXIDES
NT COPPER OXIDES
NT HAFNIUM OXIDES
NT IRON OXIDES
NT LANTHANUM OXIDES
NT LEAD OXIDES
NT LITHIUM OXIDES
NT MAGNESIUM OXIDES
NT MAGNETITE
NT MANGANESE OXIDES
NT MIXED OXIDES
NT MOLYBDENUM OXIDES
NT NICKEL OXIDES
NT PERICLASE
NT PLUTONIUM OXIDES
NT RUTILE
NT SAPPHIRE
NT SILVER OXIDES
NT TITANIUM OXIDES
NT TUNGSTEN OXIDES
NT URANIUM OXIDES
NT VANADIUM OXIDES
NT YTTRIUM OXIDES
NT ZINC OXIDES
NT ZIRCONIUM OXIDES
Research and crystal growth on high dielectric constant materials for mm wave applications
[AD-A136281] 09 p1394 N84-19102
Atomic and molecular processes in discharge cleaning plasmas 11 p1736 N84-21322
Transport properties of selected metal oxides 11 p1740 N84-21356
Absorbable-susceptor joining of ceramic surfaces
[NASA-CASE-NPO-15640-1] 13 p1962 N84-22748
Desulfurization of hot reducing gas by means of metal oxides in a fixed bed reactor
[BMFT-FB-T-84-015] 16 p2463 N84-25783
Defects at electrode-oxide and electrode-silicon interfaces in VHSI device structures
[AD-A140814] 17 p2663 N84-26990
Synthesis of refractory materials
[DE84-011045] 20 p3156 N84-30041
Chemical reaction dynamics at surfaces 22 p3681 N84-33340
Improved thermal barrier coating system
[NASA-CASE-LEW-14057-1] 23 p3724 N84-33595

METAL PARTICLES
NT METAL POWDER
NT POWDERED ALUMINUM
Structural characterization of dispersed metal catalysts
[DE83-017145] 03 p0354 N84-12305
Resonant scattering of waves in random particulate composites 15 p2310 N84-24861
Detinning of tin plate scrap
[BMFT-FB-T-84-045] 16 p2466 N84-25805
Liquid metal infiltration of an aluminum alloy into a packed column of B4C particles
[DE84-012136] 20 p3158 N84-30055
Method for the particle size independent spectrometric determination of metal particles in lubricating oils and hydraulic fluids
[AD-D011121] 22 p3545 N84-32445

METAL PLATES
Process development of making bearings and bushings from continuous-cast SAE 660 bronze alloy plate
[DE83-014234] 01 p0057 N84-10374
Mechanical property evaluation of P/M (Powder-Metallurgy) aluminum 7090-T7E71 plate
[AD-A132058] 03 p0352 N84-12290
An experimental and numerical investigation of pressure-shear waves in 6061-T6 aluminum and alpha-titanium 08 p1129 N84-17345
Development, production and marketing of a temporarily protected blackplate (TPP) — cans
[BMFT-FB-T-83-195] 10 p1483 N84-19555
Implementation of Nielsen's body force method for the solution of notch problems
[AD-A137690] 11 p1668 N84-20681
Mechanics of projectile impact against thin plates
[AD-A138494] 12 p1823 N84-21882
Optimization of a stiffened plate
[IWECO-5071303-82-1] 12 p1827 N84-21911
Revision of design values for 7075-T7351 and 7075-T7651 aluminum plate
[AD-A139092] 13 p1961 N84-22740
Multicolor printing plate joining
[NASA-CASE-LEW-13598-1] 13 p1992 N84-22930
Fracture toughness and corrosion properties of the aluminum plate alloys 7010-T651 and 7150-T6E189
[NLR-TR-82125-U] 15 p2296 N84-24781
Effect of preferred orientation on crack growth properties of Ti-6Al-4V alloys, part 1
[BR89100-PT-1] 15 p2299 N84-24802
Solid state compressor
[AD-A140496] 16 p2499 N84-26032
Technological effects of pressure vessel manufacturing processes on steel properties
[EUR-7614] 17 p2622 N84-26780
Phase inverter based on dielectric stripline waveguide with mobile metal plate 17 p2638 N84-26879
Fracture mechanics characterization of the 15 CDV alloy at temperatures from -50 C to +20 C (welded joints). Summary of test number M4 495400 18 p2816 N84-27875
Verification of the plate element with bending (element 11) of the program OPTIMA
[IWECO-5074403-83-2] 18 p2854 N84-28121
Finding the roots of the transcendental equations in the problem of determining the thermal conductivity of a plate under heterogeneous boundary conditions
[BLL-M-35602-(5828.4)] 19 p3082 N84-29554
Strains in an elastic plate containing an interference-fit bolt near a free edge
[AR-003-012] 20 p3201 N84-30333
Porous catalytic metal plate degeneration bed in a gas generator
[AD-D011078] 21 p3373 N84-31407
Electron microscope study of processes of polygonization and recrystallization in alpha-phase of two-phase (alpha + beta)-titanium alloys with plate structure 23 p3706 N84-33507
The use of adhesive-bonded rivets to lessen the reductions in fatigue life caused by rivet holes
[ARL-STRUC-REPT-399] 24 p3887 N84-34617
Optical and other property changes of M-50 bearing steel surfaces for different lubricants and additive prior to scuffing
[NASA-TM-83746] 24 p3888 N84-34620

METAL POLISHING
NT ELECTROPOLISHING
Intermodulation product levels in flame-sprayed materials 22 p3573 N84-32529

METAL POWDER
NT POWDERED ALUMINUM
Specific surface measurements of shock-modified powders
[DE83-016230] 02 p0196 N84-11275
Hugoniot measurements on unsintered metal powders
[DE83-016364] 02 p0196 N84-11277
Prediction of microstructural modification in dynamically consolidated metal powders
[DE83-015690] 02 p0196 N84-11278
Wear during rubbing of a sintered metal powder body
[AD-A132354] 04 p0544 N84-13584
Powder metallurgy
[BLL-M-35271-(5828.4)] 06 p0803 N84-15231
Abrasive properties of ferroalloys
[BLL-M-35416-(5828.4)] 07 p0973 N84-18306
Electrodes for solid state devices
[NASA-CASE-NPO-15161-1] 07 p0996 N84-18456
Influence of vibration grinding on the properties of tungsten powders and the quality of sintered pieces
[BLL-M-35373] 08 p1140 N84-17414
Deformation and fracture of P/M titanium alloys
[AD-A135612] 09 p1283 N84-18378
Characterization of ceramic powders by an X-ray measuring method
[NASA-TM-77094] 09 p1296 N84-18396
Role of Al-2O-3 in sintering of submicron yttria-stabilized ZrO-2 powders
[AD-A136796] 10 p1480 N84-19533
X-ray line broadening studies on aluminum nitride, titanium carbide and titanium diboride modified by high pressure shock loading
[DE84-003257] 10 p1483 N84-19553
Technique for removing resin from a molded object
[NASA-TM-77240] 11 p1641 N84-20729
ONR (Office of Naval Research) Far East Scientific Bulletin, volume 8, no. 4, October - December 1983
[AD-A138184] 12 p1783 N84-21632
Effects of particle size distribution in thick film conductors 12 p1839 N84-21991
Non-noble metal based metallization systems 12 p1839 N84-21993
Diamondlike flakes
[NASA-CASE-LEW-13837-2] 13 p1953 N84-22696
Status of understanding for gear materials 15 p2342 N84-25061
A mathematical model of the formation of powdered metal castings on castings
[BLL-M-35598-(5828.4)] 19 p2991 N84-28955

A study of the dependence of microsegregation on critical solidification parameters in rapidly-quenched structures
[AD-A142293] 20 p3153 N84-30019
Analysis of localized microstructural changes in dynamically consolidated metal powders
[DE84-006298] 20 p3154 N84-30026
Hard metal composition
[DE84-011034] 20 p3156 N84-30040
Mechanical properties of a shock consolidated steel powder
[DE84-003573] 20 p3158 N84-30056
Investigation of shock activated sintering and shock wave consolidation of selected powder materials
[DE84-013074] 21 p3371 N84-31391
Regulation of mechanical characteristic of iron-powder electromagnetic brake 21 p3379 N84-31444
Production methods and properties of metal powders for high temperature pressing 24 p3877 N84-34587

METAL PROPELLANTS
An investigation of experimental techniques for obtaining particulate behavior in metallized solid propellant combustion 13 p1947 N84-22659
Conditions for inflammation of accumulated aluminum in the propellant combustion zone 13 p1947 N84-22660
Combustion of high-aluminum-content propellants 13 p1947 N84-22661
Holographic investigation of solid propellant combustion particles
[AD-A140168] 16 p2496 N84-26016

METAL SHEETS
Thermal stability of four high-strength, high-conductivity copper sheet alloys
[DE83-013312] 01 p0045 N84-10268
Factors affecting plastic instability and sheet formability
[DE83-011146] 01 p0097 N84-10631
Development of a process controlled pressline of enhanced technology for the production of sheet metal parts for the aircraft industry by a high pressure rubber pad system
[BMFT-FB-W-83-006] 05 p0626 N84-14116
Hydrogen embrittlement of titanium sheet under multiaxial deformation paths
[AD-A133846] 05 p0654 N84-14298
Characterization of aluminum oxide layers (pretreatment of plated aluminum sheet metal for adhesive bonding)
[MBB-BB-549/83-O] 07 p0977 N84-16330
Method for forming an insulating film on electromagnetic steel sheet
[BLL-OA-TRANS-3124-(6196.3)] 09 p1281 N84-18368
Laser cutting: An advanced technology in sheet metal working 09 p1293 N84-18452
Fatigue crack growth in aluminum alloy sheet material under constant amplitude and simplified flight simulation loading
[VTH-LR-361] 10 p1464 N84-19561
Deep drawing of continuously cast and rolled zinc sheet
[BMFT-FB-T-83-214] 10 p1472 N84-19614
Manufacturing and properties of aluminum sheet from mixed scrap materials
[BMFT-FB-T-84-007] 15 p2296 N84-24776
An inductive process in automatic recording of crack propagation
[ISD-296] 16 p2502 N84-26056
Characterization of aluminum oxide layers
[MBB-BB-549-83-O] 16 p2561 N84-26433
Flexible manufacturing line for aircraft structures of sheet metal
[BMFT-FB-W-84-011] 19 p2955 N84-28731
Development of improved low-strain creep strength in Cabot alloy R-41 sheet — nickel base sheet alloy for reentry shielding
[NASA-CR-172392] 21 p3365 N84-31346
French firm uses unique flexible workshop with laser cutter 22 p3651 N84-33143
Curved cap corrugated sheet
[NASA-CASE-LAR-12884-1] 23 p3700 N84-33450
Elastic properties of textured sheets of two-phase titanium alloys 23 p3708 N84-33505
Process modeling of sheet metal forming of general shapes by the finite element method based on large strain formulation 23 p3716 N84-33557
Laser impulse drilling machine discussed 24 p3891 N84-34641

METAL SHELLS
Shell tile thermal protection system
[NASA-CASE-LAR-12862-1] 18 p2617 N84-27886
Edge blurring in stacked X-ray film screen combinations
[DE84-009656] 19 p3027 N84-29200
Activities in metal manufacturing 23 p3727 N84-33618
Explosive welding in the manufacture of titanium shells 24 p3876 N84-34562

METAL SPINNING
Precipitation in rapidly solidified Al-Mn alloys
[AD-A136128] 09 p1284 N84-18385
The manufacturing process and the cold deployment test of an extendible nozzle made of C-103 niobium alloy
[AD-A144524] 24 p3884 N84-34608

METAL SPRAYING
Arc spray fabrication of metal matrix composite monotape — high temperature fiber-reinforced superalloy composites
[NASA-CASE-LEW-13828-1] 06 p0798 N84-15203
Stabilization of thickness of zinc coating by adaptive system of control
[BLL-M-35367-(5828.4)] 09 p1281 N84-18364
Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] 11 p1632 N84-20670

METAL STRIPS
The change of the mechanical properties of steel strip in processing lines
[BMFT-FB-T-83-178] 08 p1135 N84-17383
Automated detection of internal and surface defects in moving strip
[BMFT-FB-T-84-079] 19 p3033 N84-29239
Role of texture and structural damage in plane strain deformation processing 21 p3416 N84-31664

METAL SURFACES
Resonance fluorescence of many interacting adatoms at a metal surface
[AD-A129666] 01 p0038 N84-10239
Some effects of anisotropic roughening on the wetting of metal surfaces
[AERE-R-10976] 01 p0047 N84-10305
Resonance fluorescence of a two-level atom near a metal surface
[AD-A130277] 01 p0141 N84-10928
Self-pumping impurity control by in-situ metal deposition
[DE83-014265] 02 p0195 N84-11265
Self-pumping impurity by in-situ metal deposition
[DE83-017937] 03 p0955 N84-12306
Research and development for investigations of metallic adsorptions on metal surfaces by optical techniques complemented by dc resistivity and auger spectroscopy
[AD-A131739] 03 p0361 N84-12351
Laser interaction with metallic surfaces
[AD-A126269] 03 p0378 N84-12464
International Conference on Vibrations at Surfaces (3rd)
[AD-A131794] 03 p0433 N84-12634
Photo-induced field emissions from metallic surfaces
[DE84-000872] 04 p0601 N84-13966
Further abbreviation of the machining schedule for producing surface-damage-free beryllium
[DOE/TIC-4500-REV-69] 06 p0814 N84-15297
The use of Auger electron spectroscopy and ellipsometry in the study of corrosion inhibition 06 p0815 N84-15307
A formula for the sputtering yield of polycrystalline materials 06 p0816 N84-15313
The descaling of 3Cr12 steel 06 p0817 N84-15322
Correlations between surface structure and catalytic reactivity for alkane hydrogenolysis over nickel
[DE84-002610] 07 p0971 N84-16292
Optical properties of metals
[AD-A134285] 07 p1075 N84-16987
Studies of silicon refractory metal interfaces: Photoemission study of interface formation and compound nucleation
[AD-A135340] 08 p1131 N84-17358
A new technique for measuring metal surface properties at the Rayleigh critical angle
[DE84-001770] 08 p1172 N84-17632
Scattering distribution characteristics of rare gases reflected from metal surface with absorbed gas molecules
[NAL-TR-761] 09 p1394 N84-19101
Electrochemically Modulated Infrared Spectroscopy (EMIRS). Experimental details
[AD-A137040] 10 p1455 N84-19503
Friction and wear of nickel in sulfuric acid
[NASA-TP-2290] 12 p1797 N84-21721
Resonance fluorescence of a two-level atom near a metal surface. 2: Case of a strong driving field
[AD-A138275] 12 p1914 N84-22469
Micro-reactions of metal contacts on various types of GaAs surfaces
[AD-A139412] 14 p2242 N84-24464
Ion-induced surface modification of alloys
[DE84-006664] 14 p2243 N84-24468
Chemical modification of surfaces: The effect of potassium on the chemisorption of molecules on transition metal crystal surfaces
[DE84-006345] 14 p2244 N84-24473
Microwelding of various metallic materials under ultravacuum (A0138-10) 15 p2272 N84-24842
A parametric study of surface transformation hardening with high-power lasers
[AD-A140160] 16 p2497 N84-26023
Improvement of surface planing with diamond tool 17 p2641 N84-26897
Defects at electrode-oxide and electrode-silicon interfaces in VHSI device structures
[AD-A140814] 17 p2663 N84-26990
Coating with overlay metallic-cermet alloy systems
[NASA-CASE-LEW-13639-2] 18 p2613 N84-27855
Chemical bonding, interdiffusion and electronic structure at InP, GaAs, and al-metal interfaces
[AD-A141809] 19 p2988 N84-28936
Attractive interaction between an atom and a surface
[DE84-003204] 19 p3103 N84-29712
Surface layer effects on the mechanical behavior of metals
[AD-A142280] 20 p3152 N84-30018
Empirical relations for cavitation and liquid impingement erosion processes
[NASA-TP-2339] 21 p3365 N84-31349
Nonlinear scattering of radio waves by metal objects 21 p3478 N84-32049
Effect of surface doping on the oxidation of chromia former alloys
[DE84-013390] 22 p3667 N84-33247
Effect of surface condition and edge preparation on metal fusion during laser welding 23 p3710 N84-33518
Multiphoton ionization mass and photoelectron spectroscopy
[AD-A143823] 23 p3714 N84-33542
Evaluation of service lubricants and metals correlation of bench tests with engines
[AD-A143971] 23 p3718 N84-33569

METAL VAPOR LASERS
Solid state copper vapor laser modulator
[DE83-015837] 03 p0380 N84-12475
Copper vapor laser scale demonstration
[AD-A133327] 06 p0650 N84-15543
Reactions of metastable rare gases with copper atoms
[AD-A136448] 09 p1278 N84-18348
Procedure for wall temperature measurement in a metal vapor laser 13 p1968 N84-22777
Hollow cathode cell for pulsed lasers using metal vapors and their chemical compounds 13 p1968 N84-22778
Auger electron pumping of short wavelength lasers
[DE84-009240] 19 p3030 N84-29217

METAL VAPORS
NT SODIUM VAPOR
Advanced-laser development for isotope separation
[DE83-016151] 02 p0227 N84-11488

METAL WHISKER REINFORCEMENT
U WHISKER COMPOSITES

METAL WORKING
NT BULGING
NT CLADDING
NT EXPLOSIVE FORMING
NT FORGING
NT METAL DRAWING
NT METAL SPINNING
Factors affecting plastic instability and sheet formability
[DE83-011146] 01 p0097 N84-10631
Wide flanged beams with improved properties
[BMFT-FB-T-83-082] 02 p0197 N84-11283
An investigation into thermomechanical treatment by rolling of High Strength Low Alloy (HSLA) steels for improving their mechanical and technological properties
[BMFT-FB-T-83-083] 02 p0197 N84-11284
Holding fixture for a hot stamping press
[NASA-CASE-GSC-12619-1] 03 p0382 N84-12491
Extrusion. State of the art and development, review paper
[RAE-TRANS-2102] 04 p0515 N84-13381
Stability of mechanical properties of cold-drawn rolled metal with high-temperature thermomechanical treatment
[BLL-M-35292-(5828.4)] 06 p0803 N84-15233
International Conference on Recent Developments in Specialty Steels and Hard Materials 08 p1130 N84-17348
Dressing methods for grinding wheels made of superhard abrasive materials
[CSIR-TRANS-1700] 08 p1141 N84-17419
Fourth Seminar on Efficient Metal Forming and Machining
[ISBN-0-7988-2556-1] 09 p1292 N84-18438

Aluminium extrusion: A metal forming process
09 p1293 N84-18444
Cold forming and upsetting in the fastener industry
09 p1293 N84-18445
Metal formability in bulk deformation processes
09 p1293 N84-18446
Finite element analysis of metal forming processes with thermomechanical coupling
[DE84-004879] 10 p1462 N84-19548
Development of the texture and plastic anisotropy in steels upon hot rolling, transformation and cold rolling
[BMFT-FB-T-83-219] 10 p1463 N84-19559
Ultrasonic angle beam standard reflector
[NASA-CASE-LAR-13153-1] 11 p1728 N84-21274
Production of porous sheets from metallic powders
[BLL-M-35465-(5828.4)] 12 p1796 N84-21713
USSR report: Machine tools and metalworking equipment
[JPRS-UMM-84-008] 14 p2155 N84-23913
On geometrical accuracy in precise metal forming
15 p2308 N84-24845
Method for solving variation problems of plasticity theory — metal working
[BLL-M-35555-(5828.4)] 17 p2676 N84-27047
Methods of analyzing processes of plastic working of metal, part 1 19 p2990 N84-28948
Methods of analyzing processes of plastic working of metal, part 3 19 p2990 N84-28949
Methods of analyzing processes of plastic working of metal, part 2 19 p2990 N84-28950
Methods of analyzing processes of plastic working of metal, part 4 19 p2991 N84-28951
Abrasive wear of steel during sliding or rolling
[BLL-CE-TRANS-8003-(9022.09)]
19 p2991 N84-28956
Variation in coefficient accounting for influence of external zones with variation in contact friction conditions — metal working
[BLL-M-35596-(5828.4)] 19 p3031 N84-29222
Automated detection of internal and surface defects in moving strip
[BMFT-FB-T-84-079] 19 p3033 N84-29239
Use of theory of systems with dispersed parameters to formulate deformation resistance equations in pressure working of metals: Communication 2
[BLL-M-35595-(5828.4)] 21 p3363 N84-31337
Certain assumptions of theory of hydrodynamic lubrication during metal pressure working
[BLL-M-35681-(5828.4)] 22 p3603 N84-32822
Process modeling of sheet metal forming of general shapes by the finite element method based on large strain formulation 23 p3716 N84-33557
Activities in metal manufacturing
23 p3727 N84-33618
USSR report: Machine tools and metalworking equipment
[JPRS-UMM-84-016] 23 p3728 N84-33623
USSR report: Machine tools and metalworking equipment
[JPRS-UMM-84-017] 24 p3891 N84-34840

METAL-BARRIER-METAL JUNCTIONS
U MBM JUNCTIONS

METAL-METAL BONDING
Beta titanium alloy metal-metal laminates: Fabrication, structure and mechanical properties
[AD-A130378] 01 p0043 N84-10278
Metal-insulator-metal junctions as surface sources of intermodulation
[AD-A130451] 01 p0043 N84-10279
Intercalation compounds: A new class of materials as advanced solid lubricants (wear life studies and differential thermal analysis)
[AD-A137424] 10 p1466 N84-19576
Tribology in the 80's. Volume 1: Sessions 1 to 4
[NASA-CP-2300-VOL-1] 14 p2152 N84-23891
Metallic adhesion and bonding
14 p2153 N84-23897
Reactions of metal-metal multiple bonds. Part 14: Synthesis and characterization of triangulo-W3 and Mo2W-oxo capped alkoxide clusters. Comproportionation of M-M triple bonds, sigma(2)pi(4) and d(o) Metal-oxo groups: M triple bond M + M triple bond O yields M3(micron 3-O)
[AD-A141067] 19 p2967 N84-28930
Nondestructive testing of bonding by ultrasonic analysis: Preliminary study report proposed investigation program — metal bonding
[CETIM-13-V-010] 21 p3416 N84-31660
Materials for Advanced Turbine Engines (MATE): Project 3: Design, fabrication and evaluation of an oxide dispersion strengthened sheet alloy combustor liner
[NASA-CR-174691] 22 p3554 N84-32504

METAL-NITRIDE-OXIDE-SEMICONDUCTORS
Nonvolatile, electrically erasable programmable ROM
[BMFT-FB-T-84-008] 15 p2412 N84-25482

METAL-NITRIDE-OXIDE-SILICON
ESD evaluation of radiation-hardened, high-reliability CMOS and MNOS ICs
[DE84-000138] 04 p0529 N84-13481
Method for fabricating MNOS structures utilizing hydrogen ion implantation
[AD-D011123] 22 p3661 N84-33208

METAL-WATER REACTIONS
Stress corrosion cracking of austenitic stainless steels in sea water: An investigation of test methods
[BLL-RISLEY-TRANS-4568-(9091.9)]
22 p3551 N84-32478
On-site measurement of the speed of corrosion of a metal in water
[BLL-T8310/BG/WH770/84] 22 p3552 N84-32488

METALLIC GLASSES
Kinetics of structural relaxation in metallic glasses
[DE83-015924] 02 p0201 N84-11309
Chemical properties of metallic glasses
[DE83-017353] 03 p0357 N84-12322
Density of occupied d states in transition metal-metalloid metallic glasses
[DE84-001206] 04 p0503 N84-13298
EXAFS study of Metglas 2605 CO
[DE84-001203] 04 p0503 N84-13299
Diffusion properties and phase transitions of the metallic glass a-Zr2-PdH-x
[DE83-016626] 05 p0860 N84-14341
EXAFS studies of the metallic glass La80Ga20
[DE84-002022] 06 p0811 N84-15278
Metallic glass as a temperature sensor during ion plating
[NASA-TM-83566] 08 p1130 N84-17351
Development of low cost amorphous materials with high saturation flux density
[BMFT-FB-T-83-213] 10 p1463 N84-19556
Structure of glasses containing transition metal ions
[DE84-004211] 10 p1468 N84-19501
Mechanical contact induced transformation from the amorphous to the crystalline state in metallic glass
[NASA-TM-83583] 11 p1632 N84-20673
Metastable transition metal alloys produced by rapid quenching: Structure and properties
[AD-A136296] 12 p1796 N84-21729
Bulk formation of metallic glasses and amorphous silicon from the melt
[NASA-CR-171012] 13 p1963 N84-22752
Studies of metastable microcrystalline and glassy alloys
[AD-A139941] 15 p2297 N84-24787
Amorphous metals with high magnetic permeability
[BMFT-FB-T-84-056] 19 p2996 N84-28983
Environment and fracture
[DE84-011454] 21 p3367 N84-31360
Microstructure and surface chemistry of amorphous alloys important to their friction and wear behavior
[NASA-TM-83762] 22 p3555 N84-32508
Fabrication of metallic glass structures
[DE84-014499] 23 p3725 N84-33606

METALLIC PLASMAS
NT CESIUM PLASMA
Power transfer for microwave discharges
[AD-A138868] 13 p2044 N84-23267
Physics of high temperature, dense plasmas
[AD-A138872] 13 p2044 N84-23268
Dense Coulomb plasmas: Quantum statistics and ordering 15 p2410 N84-25484

METALLIC STARS
Chemical abundances in old open and metal-rich globular clusters in the galaxy 16 p2577 N84-26539

METALLICITY
Carbon and nitrogen abundances in field dwarf stars
24 p3986 N84-35236

METALLIZING
Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] 11 p1632 N84-20670
Proceedings of the Flat-Plate Solar Array Project Research Forum on Photovoltaic Metallization Systems
[NASA-CR-173477] 12 p1838 N84-21980
Solar cell metallization: Historical perspective
12 p1838 N84-21981
Economic implications of current systems
12 p1838 N84-21982
Accelerated degradation of silicon metallization systems 12 p1838 N84-21983
Getting the current out 12 p1838 N84-21986
Diffusion barriers 12 p1839 N84-21987
Observations of solar-cell metallization corrosion
12 p1839 N84-21988
Module degradation catalyzed by metal-encapsulation reactions 12 p1839 N84-21989
Non-noble metal based metallization systems
12 p1839 N84-21993
Ionized cluster beam deposition
12 p1840 N84-21995
Metallization with generic metallo-organic inks
12 p1840 N84-21996
Dry etching of metallization 12 p1840 N84-21997
Laser assisted deposition 12 p1840 N84-21998
Iron-copper metallization for flexible solar/cell arrays
12 p1841 N84-22000
Band-overlap metallization of BaS, BaSe and BaTe
[NASA-CR-173396] 12 p1912 N84-22458
LSI/VLSI (Large Scale Integration/Very Large Scale Integration) ion implanted GaAs (Gallium Arsenide) IC processing
[AD-A139676] 15 p2328 N84-24979
LSI/VLSI (Large Scale Integration/Very Large Scale Integration) ion implanted GaAs (Gallium Arsenide) IC processing. Appendix A: Feasibility analysis of Gallium-Arsenide mask programmable functions and logic arrays for high performance communications systems
[AD-A139677] 15 p2328 N84-24980
LSI/VLSI (Large Scale Integration/Very Large Scale Integration) ion implanted GaAs (Gallium Arsenide) IC processing. Appendix B: Two-dimensional modeling of GaAs MESFET devices for integrated high-speed logic circuits
[AD-A139678] 15 p2328 N84-24981
Laser-assisted solar cell metallization processing
[NASA-CR-173764] 19 p3050 N84-29354
Laser-assisted solar cell metallization processing
[NASA-CR-173875] 21 p3409 N84-31619
Intermodulation product levels in flame-sprayed materials 22 p3573 N84-32629
High temperature electronics technology
[AD-A143571] 22 p3586 N84-32714
Overlay metallic-cermet alloy coating systems
[NASA-CASE-LEW-13639-1] 23 p3716 N84-33555
Development of metallization process
[NASA-CR-173956] 23 p3786 N84-34014
Development of metallization process: FSA project, cell and module formation research area
[NASA-CR-173951] 23 p3788 N84-34022
Development of metallization process. FSA project, cell and module formation research area
[NASA-CR-173950] 23 p3789 N84-34030
Development of metallization process
[NASA-CR-173943] 23 p3789 N84-34031
Development of metallization process: FSA project, cell and module formation research area
[NASA-CR-173996] 24 p3884 N84-34609
MOD silver metallization for photovoltaics
[NASA-CR-173975] 24 p3884 N84-34610

METALLOGRAPHY
Mechanical property evaluation of P/M (Powder-Metallurgy) aluminum 7090-T7E71 plate
[AD-A132058] 03 p0352 N84-12290
Determination of the susceptibility of metals to stress corrosion cracking — testing aluminum alloys
[ESA-PSS-01-737-ISSUE-1] 16 p2465 N84-25800
Evaluation of the effect of non-metallic inclusions in steel electrodes on the frequency of flashbacks in mercury-arc rectifiers
[BLL-ERA-TRANS-3002/23] 17 p2662 N84-26962
Metallographic examinations of type 304 stainless steel (heat 9T2796) tested in high-temperature uniaxial and multiaxial experiments
[DE84-010637] 18 p2814 N84-27866
Method to reveal microstructures in single phase alloys
[AD-D011094] 22 p3555 N84-32512

METALLOIDS
NT ANTIMONY
NT ARSENIC
NT ARSENIC ISOTOPES
NT BORON
NT GERMANIUM
NT SILICON
NT TELLURIUM
Electromagnetic excitation of sound in metals
21 p3484 N84-32082

METALLORGANIC COMPOUNDS
U ORGANOMETALLIC COMPOUNDS

METALLURGY
Thermoelastic stresses in metal with temperature: Dependent properties in radiant heating
[BLL-M-35526-(5828.4)] 13 p1960 N84-22733
USSR report: Science and technology policy
[JPRS-UST-84-007] 13 p2065 N84-23391
Opportunities for the chemical industry in space, part 1
[NASA-CR-173594] 16 p2462 N84-25776
Metallurgy: Development of material recovery
16 p2465 N84-25795
The nicrosil versus nisil type N thermocouple: A commercial reality
[MRL-R-903] 16 p2495 N84-26005

Ion implantation metallurgy: A study of the composition, structure and corrosion behavior of surface alloys formed by ion implantation and ion beam mixing
[AD-A140713] 17 p2624 N84-26792

Liquid metal corrosion considerations in alloy development
[DE84-008512] 18 p2815 N84-27868

Materials sciences programs, fiscal year 1983
[DOE/ER-0143/1] 19 p2983 N84-28905

METALS
NT ALKALI METALS
NT ALUMINUM
NT ALUMINUM COATINGS
NT AMERICIUM
NT AMERICIUM 241
NT BARIUM
NT BERYLLIUM
NT BERYLLIUM 9
NT BERYLLIUM 10
NT CADMIUM
NT CALCIUM
NT CALCIUM ISOTOPES
NT CERIUM
NT CESIUM
NT CESIUM VAPOR
NT CESIUM 137
NT CHROMIUM
NT COBALT
NT COBALT 60
NT ERBIUM
NT EUROPIUM
NT FERROUS METALS
NT GADOLINIUM
NT GALLIUM
NT GOLD
NT GOLD COATINGS
NT HAFNIUM
NT HOLMIUM
NT INDIUM
NT IRIDIUM
NT IRON
NT IRON ISOTOPES
NT LANTHANUM
NT LEAD (METAL)
NT LIQUID LITHIUM
NT LIQUID METALS
NT LIQUID SODIUM
NT LITHIUM
NT LUTETIUM
NT MAGNESIUM
NT MAGNESIUM ISOTOPES
NT MANGANESE
NT MERCURY (METAL)
NT METAL COATINGS
NT METAL CRYSTALS
NT METAL FILMS
NT METAL FOILS
NT METAL MATRIX COMPOSITES
NT METAL POWDER
NT METAL VAPORS
NT MOLYBDENUM
NT NEODYMIUM
NT NICKEL
NT NICKEL COATINGS
NT NIOBIUM
NT NOBLE METALS
NT NONFERROUS METALS
NT OSMIUM
NT PALLADIUM
NT PLATINUM
NT PLUTONIUM
NT PLUTONIUM 238
NT POTASSIUM
NT POWDERED ALUMINUM
NT PRASEODYMIUM
NT RARE EARTH ELEMENTS
NT REFRACTORY METALS
NT RHENIUM
NT RHODIUM
NT RUBIDIUM
NT RUBIDIUM ISOTOPES
NT RUTHENIUM
NT SAMARIUM
NT SILVER
NT SILVER ISOTOPES
NT SINTERED ALUMINUM POWDER
NT SODIUM
NT SODIUM VAPOR
NT STRONTIUM ISOTOPES
NT TANTALUM
NT TECHNETIUM
NT THORIUM
NT TIN
NT TITANIUM
NT TRANSITION METALS
NT TUNGSTEN
NT ULTRAPURE METALS
NT URANIUM
NT URANIUM 235
NT URANIUM 238
NT VANADIUM
NT YTTERBIUM
NT YTTRIUM
NT ZINC
NT ZINC COATINGS
NT ZIRCONIUM

X-ray wear metal monitor
[AD-A131251] 01 p0012 N84-10076

Simple structural unit model for core-dependent properties of symmetrical tilt boundaries
[DE83-012620] 01 p0044 N84-10284

Acidic deposition and the corrosion and deterioration of materials in the atmosphere: A bibliography, 1880 - 1982
[PB83-236091] 01 p0047 N84-10302

A Fourier transform technique which measures phase delays between ultrasonic impulses with sufficient accuracy for the determination of residual stresses in metals
[AERE-R-1093] 01 p0047 N84-10306

Personal exposure to volatile organics and other compounds indoors and outdoors: The TEAM (Total Exposure Assessment Methodology) study
[PB83-231357] 01 p0115 N84-10744

Adsorption of humic acids and trace metals in natural waters
[NASA-CR-174481] 02 p0238 N84-11563

Evaluation of the kinematic variable (back stress) response of metals
[DE83-006381] 03 p0353 N84-12293

Elastic-wave inverse scattering in non-destructive evaluation
[DE83-017683] 03 p0366 N84-12513

A pressure-shear experiment for studying the dynamic plastic responses of metals at shear strain rates of 10 to the 5th power s(-1) 03 p0367 N84-12519

New developments and opportunities for NMR in metal-hydrogen systems
[DE83-017696] 03 p0437 N84-12864

Sizing defects using annular-array techniques with an automated ultrasonic data-acquisition system
[DE84-001644] 04 p0546 N84-13597

Absolute determination of stress in textured materials
[DE83-018083] 04 p0550 N84-13621

Fate and effects of metals in the sea-surface microlayer
[DE84-000114] 04 p0569 N84-13752

Ceramic composite liner material for gas turbine combustors
[NASA-TM-83490] 05 p0631 N84-14145

Particulate erosion mechanisms
[NASA-TM-83551] 05 p0652 N84-14289

Gordon Conference on Physical Metallurgy (1983)
[AD-A134034] 05 p0653 N84-14295

Metals and ceramics research: Processing, properties, and applications
[ORNL-5943] 06 p0796 N84-15187

Design and use of nonstandard tensile specimens for irradiated materials testing
[DE84-001468] 06 p0806 N84-15254

A thermodynamically consistent constitutive model for inelastic flow of materials 06 p0857 N84-15581

Numerical solution of a generalized model of weld pool solidification
[NRC/CNR-TT-2076] 07 p1012 N84-16564

Resonance fluorescence and photon trapping of two atoms on a metallic surface
[AD-A134512] 07 p1072 N84-16964

Extensions of the theory of the electron-phonon interaction in metals: A collection
[AD-A134140] 07 p1079 N84-17018

The effect of gas bubbles and cavity dimensions on the local electrode potential within pits, crevices and cracks
[AD-A134729] 08 p1132 N84-17364

Analysis of electrical accident prevention countermeasures
[PB84-102967] 08 p1207 N84-17869

Laser-induced electron-phonon processes on metal surfaces
[AD-A136435] 09 p1321 N84-18632

Inelastic deformation of metals and structures under dynamic and quasi-static cyclic loading
[AD-A136022] 09 p1332 N84-18700

Applicability of Hart's state variable model to large strain rate ranges
[DE84-004878] 10 p1462 N84-19549

Repeatability of mixed-mode adhesive debonding
[NASA-TM-85753] 10 p1464 N84-19565

Study of the structure of grain boundaries in metals
[DE84-005493] 11 p1635 N84-20689

Ultrasonic angle beam standard reflector
[NASA-CASE-LAR-13153-1] 11 p1728 N84-21274

Specifics of structure formation in nitrides synthesized by laser action on metals 12 p1784 N84-21640

MINTEQ: A computer program for calculating aqueous geochemical equilibria
[PB84-157148] 12 p1795 N84-21704

Diffusional anomalies in deformed metals
[BLL-M-35490-(5828.4)] 12 p1795 N84-21708

Ion plating of castings made from high melting point metals
[BLL-RISLEY-TRANS-4879] 12 p1796 N84-21715

Environmental reactions and their effects on mechanical behavior of metallic materials
[DE84-005768] 12 p1799 N84-21734

MEXAMS (Metals exposure analysis modeling system)
[PB84-157155] 12 p1799 N84-21736

Structural and electronic properties of artificial metallic superlattices
[DE84-002771] 12 p1915 N84-22477

Device and method for frictionally testing materials for ignitability
[NASA-CASE-MSC-20622-1] 13 p1937 N84-22596

On the limiting electrode potential in cavities and its role in deciding between SCC (Stress Corrosion Cracking) and HC (Hydrogen Cracking) in metals
[AD-A138585] 13 p1955 N84-22713

Grit blasting a distributed roughness based on a 30% probability of exceedence
[AD-A136779] 13 p1974 N84-22809

Role of abrasion in the optical polishing of metals and glass
[DE84-005737] 13 p2043 N84-23259

Energy and statistical effects in the dynamic fragmentation of metal rings
[DE84-005458] 14 p2128 N84-23760

Importance and definition of materials in tribology. Status of understanding 14 p2152 N84-23893

The strength of the metal. Aluminum oxide interface 14 p2153 N84-23898

Future direction of research in wear and wear resistant materials. Status of understanding 14 p2153 N84-23900

Study of meteoroid impact craters on various materials (A0138-1) 15 p2276 N84-24667

Bimetal and multimetal galvanic corrosion prediction using long- and short-term polarization curves
[AD-A139893] 15 p2297 N84-24786

Purification of metals by zone melting. An optimization 15 p2307 N84-24839

LSI/VLSI (Large Scale Integration/Very Large Scale Integration) ion implanted GaAs (Gallium Arsenide) IC processing. Appendix B: Two-dimensional modeling of GaAs MESFET devices for integrated high-speed logic circuits
[AD-A139678] 15 p2328 N84-24981

High rate straining and mechanical properties of materials
[QUEL-1502/83] 15 p2350 N84-25106

Journal of aeronautical materials (selected articles)
[AD-A140181] 16 p2434 N84-25611

Stoichiometric CO reduction by supported metal carbonyls
[PB84-175025] 16 p2474 N84-25862

Successful utilization of economic, light aluminum-casted structures in airplane construction
[VFW-31/83-O] 16 p2562 N84-26439

Sweden's STU proposes funding for metals, ceramics approach 17 p2640 N84-26890

Metal phthalocyanine polymers
[NASA-CASE-ARC-11405-1] 18 p2817 N84-27884

Determination of structural parameters from EXAFS (Extended X-ray Absorption Fine Structure): Application to solutions and catalysts
[AD-A142205] 19 p2989 N84-28942

Anisoptropic diffusion kinetics of metals and carbides in pyrolytic graphite
[BLL-CTO-2261-(9091.9F)] 19 p2991 N84-28953

The electroplastic effect in metals
[AD-A141528] 19 p2994 N84-28971

Effects of wear metal on lubricant deposition
[AD-A142027] 19 p2999 N84-29008

Utilization of amorphous metals in electric motors. Power systems technology program
[DE84-009483] 19 p3018 N84-29136

Determining the coefficient of heat transfer during the filtration of a heat-carrying agent through a coil
[BLL-M-35601-(5828.4)] 19 p3020 N84-29146

Surface layer effects on the mechanical behavior of metals
[AD-A142280] 20 p3152 N84-30018

Ceramic-glass-metal seal by microwave heating
[DE84-011283] 20 p3196 N84-30295

A users manual for the laser welding code WELD2D
[DE84-011167] 20 p3197 N84-30306

Fatigue and Fracture Branch: A compendium of recently completed and on-going research projects
[NASA-TM-85825] 20 p3201 N84-30331
Photoemission studies of mixed valent systems
[DE84-010797] 20 p3310 N84-31020
Investigation of role of subsurface zones in wear of materials
[DE84-012752] 21 p3368 N84-31365
Field ion microscopy and spectroscopy of hydrogen in metals
[DE84-012972] 21 p3368 N84-31366
Study of proton and neutron activation of metal samples in low Earth orbit
[NASA-CR-171113] 21 p3430 N84-31763
Electromagnetic excitation of sound in metals
21 p3484 N84-32082
USSR report: Materials science and metallurgy
[JPRS-UMS-84-006] 23 p3705 N84-33489
Portable electromagnetic flaw detector for metal products 23 p3706 N84-33493
C.A.T. scanner for detecting flaws in metals
23 p3706 N84-33494
Corrosion resistant glass coating for metals
23 p3706 N84-33495
Metal-silicate relationships in differentiated meteorites
[NASA-CR-173929] 23 p3843 N84-34384
Polymers as substitutes for metal and lumber
24 p3867 N84-34510
Metallogenic studies in Kazakhstan outlined
24 p3869 N84-34520
Control of seam formation in welding with a light beam
24 p3869 N84-34523
Amorphous metallic materials
24 p3870 N84-34528
Creep of LaCrO-3Cr ceramic-metallic material
24 p3877 N84-34568
Fundamentals of Alloy Solidification Applied to Industrial Processes
[NASA-CP-2337] 24 p3881 N84-34589
Rare-earth metals and their applications in aviation
[AD-A144410] 24 p3884 N84-34607

METAMORPHISM (GEOLOGY)
The classifications of metamorphic rocks and their applications to air photo interpretation procedures
[AD-A134965] 08 p1178 N84-17675
Thermal contraints on high-pressure granulite metamorphism of supracrustal rocks
11 p1678 N84-20948
Metamorphic fluids and uplift-erosion history of a portion of the Kapuskasing structural zone, Ontario, as deduced from fluid inclusions 11 p1680 N84-20962
Granitic rocks and metasediments in Archean crust, Rainy Lake area, Ontario: ND isotope evidence for mantle-like SM/ND sources 11 p1680 N84-20964
The Pikwitonei granulite domain: A lower crustal level along the Churchill-Superior boundary in central Manitoba 11 p1680 N84-20967
Stratigraphic, geochemical, and petrologic studies of the Ammonoosuc volcanics, northcentral Massachusetts and southwestern New Hampshire 13 p2013 N84-23059
Geology, petrology and geochronology of the metamorphic rocks of Meatiq Dome, Central Eastern Desert, Egypt 22 p3621 N84-32942
Crystalline rocks of the Northeastern United States
[DE84-013673] 22 p3624 N84-32962

METASTABILITY
U METASTABLE STATE

METASTABLE ATOMS
Reactions of metastable rare gases with copper atoms
[AD-A136448] 09 p1278 N84-18348
The role of metastables in reactive plasmas
[LP-206] 19 p3109 N84-29756

METASTABLE STATE
Superconductor stability, 1983: A review
[DE83-015506] 03 p0454 N84-12990
Proceedings of the Workshop on Ion Mixing and Surface Layer Alloying
[DE83-015354] 03 p0455 N84-12994
Collisional excitation and radiation of atoms and molecules
[AD-A134093] 05 p0743 N84-14881
Radiative collisional laser feasibility demonstration
[AD-A135793] 09 p1322 N84-18640
Metastable superconducting pairs with large momentum
[AD-A136246] 09 p1385 N84-19045
Scientific report on the International Conference on Metastable and Modulated Semiconductor Structures (MMSS) held at Pasadena, California on 6-10 December 1982
[AD-A136204] 09 p1396 N84-19121
Metastable transition metal alloys produced by rapid quenching: Structure and properties
[AD-A138296] 12 p1798 N84-21729
Modification of the near surface region metastable phases and ion induced reactions
[AD-A138842] 13 p1952 N84-22694
Primary patterns of electronically excited molecules in the gas phase 2
[MPIS-9/1983] 13 p2041 N84-23245
Studies of metastable microcrystalline and glassy alloys
[AD-A139941] 15 p2297 N84-24787
Metastable complexes of helium-hydrogen isotopes
[DE84-009965] 21 p3496 N84-32160
Solidification of highly undercooled liquid droplets
[AD-A143892] 23 p3714 N84-33543

METATHESIS
Oligomerization and butenolysis of olefins by metathesis: Contributions to a chemical use of industrial C4-olefins — catalysts
[BMFT-FB-T-83-184] 10 p1457 N84-19518

METAZOA
U ANIMALS

METEOR CRATERS
U CRATERS

METEOR TRAILS
Meteor scatter communication in an air-ground environment
[RAE-TM-RAD-NAV-224] 09 p1298 N84-18484

METEORITE COMPRESSION TESTS
U COMPRESSION TESTS
U MECHANICAL PROPERTIES
U METEORITES

METEORITE CRATERS
Impact of Upheaval Dome, Utah
13 p2078 N84-23465
Differential degradation of Martian impact basins
13 p2078 N84-23468
Fluvial erosion of impact craters: Earth and Mars
13 p2083 N84-23494
Study of meteoroid impact craters on various materials (A0138-1) 15 p2276 N84-24667
Meteorite bombardment and dating of planetary surfaces
[NASA-TM-77558] 24 p3991 N84-35260

METEORITES
NT ACHONDRITES
NT ALLENDE METEORITE
NT CARBONACEOUS CHONDRITES
NT CHONDRITES
NT IRON METEORITES
NT MICROMETEORITES
NT STONY METEORITES
NT TEKTITES
Radioactivites in returned lunar materials and in meteorites
[NASA-CR-171710] 02 p0306 N84-12018
Radioactivities in returned lunar materials and in meteorites
[NASA-CR-175347] 07 p1090 N84-17089
Mineralogical investigations of lunar samples and meteorites
[NASA-CR-173246] 07 p1091 N84-17093
Meteorites News. Japanese collection of Antarctic meteorites, volume 1, number 1
10 p1596 N84-20461
Antarctic Meteorite Newsletter. Volume 7, number 1: Sample requests and allocations
[NASA-TM-85559] 10 p1596 N84-20462
A multi-element study of ISUA iron-formation, W-Greenland 11 p1680 N84-20961
Fifteenth Lunar and Planetary Science Conference. Press Abstracts
[NASA-CR-175409] 11 p1754 N84-21448
Cosmic ray exposure of SNC meteorites and constraints on their derivation from Mars 11 p1754 N84-21449
Primitive meteorites: Where do they come from and how do they form? 11 p1755 N84-21458
Toward a complete inventory of stratospheric dust particles with implications and their classification
11 p1756 N84-21464
Lunar sample analysis
[NASA-CR-171772] 11 p1758 N84-21476
Weathered stony meteorites from Victoria Land, Antarctica, as possible guides to rock weathering on Mars 13 p2065 N84-23509
The use of satellite technology in the search for meteorites in Antarctica aut 01Meunier, Tony K.
14 p2163 N84-23955
Antarctic Meteorite Newsletter, volume 7, number 2: Sample requests and allocations
[NASA-TM-85385] 18 p2953 N84-26714
Cosmonaut Berezovoy's memoirs on 211-day spaceflight 21 p3347 N84-31231
Metal-silicate relationships in differentiated meteorites
[NASA-CR-173929] 23 p3843 N84-34384

METEORITIC COMPOSITION
Microprobe analyses of rare-earth-element fractionation in meteoritic minerals
[DE83-017326] 04 p0621 N84-14097
Preliminary discussion on the origin of Lei-gong-mo (tektites)
[NASA-TM-77328] 07 p1091 N84-17095
High-temperature inclusions in the Murchison meteorite 11 p1755 N84-21454
Mineralogic and petrologic studies of meteorites and lunar samples
[NASA-CR-175390] 11 p1758 N84-21478
Preliminary study of microtektites first discovered in the central Pacific by China
[NASA-TM-77470] 14 p2250 N84-24514
Study of meteoroid impact craters on various materials (A0138-1) 15 p2276 N84-24667
Microanalytical study of some cosmic dust discovered in sea-floor sediments in China
[NASA-TM-77409] 16 p2504 N84-26068
Antarctic Meteorite Newsletter, volume 7, number 2: Sample requests and allocations
[NASA-TM-85385] 18 p2953 N84-26714

METEORITIC DAMAGE
Distribution and properties of small volcanoes in Acidalia Planitia 13 p2080 N84-23478
Meteoroid damage to spacecraft
15 p2277 N84-24673

METEORITIC DUST
U MICROMETEOROIDS

METEORITIC IONIZATION
U ATMOSPHERIC IONIZATION
U METEOR TRAILS

METEORITIC MICROSTRUCTURES
Multiple-foil microabrasion package (A0023)
15 p2276 N84-24666
Study of meteoroid impact craters on various materials (A0138-1) 15 p2276 N84-24667
Microanalytical study of some cosmic dust discovered in sea-floor sediments in China
[NASA-TM-77409] 16 p2504 N84-26068

METEOROID CONCENTRATION
Interplanetary dust experiment (A0201)
15 p2277 N84-24671

METEOROID CRATERS
U METEORITE CRATERS

METEOROID DUST CLOUDS
NT ZODIACAL DUST
Formation of chondrules by drag heating in dust-enriched environments 11 p1758 N84-21483
Feasibility of formation of discrete dust belts around Earth 19 p2976 N84-28863
Earth's dust envelop 19 p2976 N84-28864

METEOROID SHOWERS
NT AQUARID METEOROIDS
NT GEMINID METEOROIDS

METEOROIDS
NT AQUARID METEOROIDS
NT GEMINID METEOROIDS
NT METEOROID DUST CLOUDS
NT MICROMETEOROIDS
NT ZODIACAL DUST
Meteor scatter communication in an air-ground environment
[AD-A135669] 09 p1301 N84-18506
Space debris impact experiment (S0001)
15 p2277 N84-24672

METEOROLOGICAL BALLOONS
Thin film strain transducer — in-flight monitoring of balloon film strain
[US-PATENT-APPL-SN-526770]
03 p0376 N84-12448
Development of analytical methodology for the measurement of chlorine and bromine in the stratosphere
[AD-A132640] 05 p0703 N84-14614
Aerostat icing problems
[AD-A133403] 06 p0810 N84-15272
Stratospheric determination of effective photodissociation cross sections for molecular oxygen: 191-204 nm
[AD-A134168] 07 p1034 N84-16706

METEOROLOGICAL CHARTS
The reading of plots in weather and water wave charts
[KNMI-152-BV-10] 10 p1540 N84-20092
FGGE level 3-B daily global analyses, part 3
[PB84-135854] 10 p1541 N84-20101
Solar-Geophysical Data number 471, November 1983. Part 2: Comprehensive reports. Data for May 1983 and miscellanea
[PB84-157007] 14 p2252 N84-24524
Mean upper tropospheric flow over the global tropics, volume 1
[AD-A141227] 18 p2889 N84-28341

METLIB-2: A program library for calculating and plotting atmospheric and oceanic fields
[PB84-205434] 21 p3450 N84-31890
Automatic drawing of synoptic charts
[INPE-3146-RPE/456] 23 p3600 N84-34094

METEOROLOGICAL FLIGHT
Research facilities report, fiscal year 1982
[PB83-224857] 01 p0110 N84-10713
Nighttime observations of thunderstorm electrical activity from a high altitude airplane
[NASA-TM-86455] 21 p3405 N84-31597
Measurements inside Oklahoma thunderstorms
[PB84-206911] 21 p3450 N84-31891

METEOROLOGICAL INSTRUMENTS
NT BAROMETERS
NT CLOUD HEIGHT INDICATORS
NT DROPSONDES
NT IONOSONDES
NT RADIOSONDES
NT RAIN GAGES
NT RAWINSONDES
NT WEATHER DATA RECORDERS
Research facilities report, fiscal year 1982
[PB83-224857] 01 p0110 N84-10713
Meteorological sensors for battlefield weather support
[AD-A132623] 05 p0709 N84-14643
Guide to meteorological instruments and methods of observation
[WMO-8] 08 p1191 N84-17764
The automatic remote sensing system on a 320 meter meteorological tower
[AD-A137144] 10 p1539 N84-20085
Calibration of meteorological measurements made by NOAA (National Oceanic and Atmospheric Administration) WP3D aircraft, 1983
[PB84-127463] 10 p1541 N84-20099
Computer simulations of space-borne meteorological systems on the CYBER 205 10 p1558 N84-20210
Meteorological and climatological conditions affecting the vertical structure of visibility in Northern Germany
[AD-A139126] 14 p2179 N84-24052
Facilities for meteorological research at NASA Goddard/Wallops Flight Facility
[NASA-TM-84422] 15 p2371 N84-25223
Tactical visibility meter
[AD-A141286] 18 p2890 N84-28347
Phase modulator in 41.650 MHz
[INPE-3177-PRE/544] 21 p3391 N84-31515
Analysis of MSFC ground-based Doppler lidar data
24 p3929 N84-34867

METEOROLOGICAL PARAMETERS
Multi-scale analyses of meteorological conditions affecting Pan American World Airways flight 759
[PB83-222562] 01 p0006 N84-10040
The effects of weather on rapid runway repair, volume 2
[AD-A130350] 01 p0016 N84-10105
Acidic deposition and the corrosion and deterioration of materials in the atmosphere: A bibliography, 1680 - 1982
[PB83-236091] 01 p0047 N84-10302
Summary of the VIN field program: Summer 1979
[AD-A130636] 01 p0108 N84-10704
Meteorological and climatological approach in determining snowpack accumulation at snow course sites in a Montana watershed
[PB83-226852] 01 p0110 N84-10714
Branching Atmospheric Trajectory (BAT) model
[PB83-233023] 01 p0110 N84-10717
A candidate hypothesis for the generation of quasi-biennial variations in sea level pressure
02 p0252 N84-11652
Applications of fluid mechanics to meteorology
[INPE-2839-PRE/386] 02 p0253 N84-11655
The mechanism of meteorological noise
[PB83-241489] 02 p0257 N84-11681
Pilot controls and SPIRF flight
03 p0312 N84-12038
Wind-speed extremes in the Northern Hemisphere, 30 through 60 km
[AD-A132019] 03 p0410 N84-12682
Winds: Chapter 6, 1983 revision. Handbook of Geophysics and Space Environments
[AD-A132018] 03 p0410 N84-12683
Snow cover and meteorology at Allagash, Maine, 1977 - 1980
[AD-A132013] 03 p0410 N84-12684
Optical extinction coefficients beneath marine stratus clouds. Comparison of coefficients calculated from observed aerosol spectra with coefficients specified by the Navy aerosol model
[AD-A132011] 03 p0410 N84-12685
Proceedings of 1st International Workshop on Atmospheric Icing of Structures
[AD-A131869] 03 p0411 N84-12690
Climate of Phoenix, Arizona (revised)
[PB83-246801] 03 p0412 N84-12699
An analysis of cloud cover at Johannesburg, Cape Town and Durban, in South Africa
[CSIR-NBRI-SR-BOU-60] 04 p0566 N84-13734
Range reference atmosphere 0-70 km altitude
[AD-A132487] 04 p0567 N84-13737
Stratified maximum temperature relationships between sixteen zone stations in Arizona and respective key stations
[PB83-249904] 04 p0568 N84-13746
Tropical cyclones in the Australian/southwest Pacific region 05 p0710 N84-14654
Long term upper ocean study (LOTUS) at 34 deg N, 70 deg W: Meteorological sensors, data and heat fluxes for May-October 1982 (LOTUS-3 and LOTUS-4)
[AD-A133863] 05 p0711 N84-14659
A comprehensive description of the mission sensor microwave imager (SSM/I) environmental parameter extraction algorithm
[AD-A134052] 05 p0759 N84-14976
Range reference atmosphere 0-30 km altitude, Eglin AFB, Florida
[AD-A133506] 06 p0882 N84-15734
Taguac, Guam Island. Range reference atmosphere 0-30 km altitude
[AD-A133618] 06 p0882 N84-15736
900 km of digital ocean wave spectra from the SEASAT SAR 07 p0990 N84-16415
European Space Agency, ERS-1 program
07 p0990 N84-16419
Range reference atmosphere 0-70 KM altitude
[AD-A134186] 07 p1036 N84-16722
Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F. Buckley ANGB, Colorado
[AD-A134205] 07 p1038 N84-16730
Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F. Elmendorf AFB, Alaska
[AD-A134206] 07 p1038 N84-16731
Limited Surface Observations Climatic Summary (LISOCS). Ft. Richardson, Alaska
[AD-A134207] 07 p1038 N84-16732
Limited Surface Observations Climatic Summary (LISOCS). Finthen AAF, West Germany
[AD-A134208] 07 p1038 N84-16733
Limited Surface Observations Climatic Summary (LISOCS). Coleman AAF, West Germany
[AD-A134210] 07 p1038 N84-16735
Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F. Galena AFS, Alaska
[AD-A134211] 07 p1039 N84-16736
Reports of the U.S. - U.S.S.R. Weddell Polynya Expedition, October-November 1981. Volume 7. Surface-level meteorological data
[AD-A134476] 07 p1041 N84-16747
Typical remote sensing data products
08 p1175 N84-17656
Reports of the U.S. - U.S.S.R. Weddell Polynya expedition, October-November 1981. Volume 6: Upper-air data
[AD-A134871] 08 p1187 N84-17736
Estimation of parameters of spray clouds
[BLL-TRANS-1571-(9022.552)] 08 p1190 N84-17752
Guide to meteorological instruments and methods of observation
[WMO-8] 08 p1191 N84-17764
Pertinent meteorological data for hurricane Allen of 1980
[PB84-104322] 08 p1192 N84-17766
Preparing meteorological data for use in routine dispersion calculations: Workgroup summary
[PB84-119690] 08 p1193 N84-17774
Meteorological applications library (CRH.LB)
[PB84-122639] 08 p1193 N84-17776
Climatic publications
[AD-A136021] 09 p1349 N84-18616
Decoder for manually digitized radar observations
[PB84-127539] 09 p1351 N84-18826
Meteorological database
[INPE-2790-PRE/353] 09 p1399 N84-19135
A system for receiving and analyzing meteorological satellite data at small meteorological/oceanographic centres or aboard ship
[AD-A137215] 10 p1540 N84-20088
Weather effects on electricity peak loads in the Southwest of the Netherlands and verification of the estimation of these maxima, 1 January 1972 - 1 January 1983
[KNMI-WR-83-14(DM)] 10 p1540 N84-20095
Comprehensive analyses of variances of meteorological fields over Southern Bavaria
[DFVLR-FB-83-31] 10 p1541 N84-20097
Calibration of meteorological measurements made by NOAA (National Oceanic and Atmospheric Administration) WP3D aircraft, 1983
[PB84-127463] 10 p1541 N84-20099
Analysis of observed and modeled mixed layers: Nocal (northern California) region
[AD-A136773] 10 p1543 N84-20109
Atmospheric millimeter wave propagation model
[PB84-143494] 11 p1645 N84-20754
Acid rain bibliography
[PB84-136940] 11 p1677 N84-20941
The use of interactive graphics processing in short-range terminal weather forecasting: An initial assessment
[AD-A137165] 11 p1687 N84-21004
Observing system simulation experiments related to space-borne Lidar wind profiling. Part 1: Forecast impacts of highly idealized observing systems
12 p1850 N84-22052
Design of a linear projector for use with the normal modes of the GLAS 4th order GCM
12 p1853 N84-22070
Horizontal energy propagation in a baroclinic atmosphere with meridional and zonal structure
12 p1857 N84-22096
Development and preliminary tests of a new long-wave radiation parameterization 12 p1857 N84-22097
Simulations of the stratocumulus-topped boundary layer with a third-order closure model
12 p1857 N84-22098
Problems with the process partitioning theory of stratocumulus entrainment 12 p1857 N84-22099
Can cloud-top entrainment promote cloud growth?
12 p1857 N84-22100
On the bimodality of temperature and moisture near stratocumulus cloud tops 12 p1858 N84-22101
An ensemble formulation of PBL fluxes in a GCM
12 p1858 N84-22102
Correlation between the meteorological parameters and the optical strength of atmospheric turbulence close to the ground. Part 3: Results
[BAE-BT-10771] 13 p2016 N84-23070
Influence of extratropical heteorological phenomenon on the northeast Brazilian climate: A study using finite elements
[INPE-2912-PRE/425] 13 p2016 N84-23072
The geomagnetic elements in Denmark 1928-1980
[ISBN-87-7478-219-3] 14 p2174 N84-24024
Characteristics of the Lower Atmosphere Influencing Radio Wave Propagation
[AGARD-CP-346] 15 p2322 N84-24943
The effects of meteorology on marine aerosol and optical and in propagation 15 p2323 N84-24950
Transhorizon microwave propagation measurements related to surface meteorological parameters
15 p2325 N84-24964
Snow storm with strong wind in Antarctica
15 p2353 N84-25118
Atmospheric environment for Space Shuttle (STS-11) launch
[NASA-TM-82560] 15 p2366 N84-25194
Four-dimensional satellite data assimilation
[AD-A139904] 15 p2372 N84-25228
Meteorologic report based on the work of Oosterscheldewerken
[KNMI-TR-45] 16 p2529 N84-26236
Limited surface observations climatic summary (Lisocs). Schwaebisch Hall West Germany
[AD-A140242] 16 p2530 N84-26242
Limited surface observations climatic summary (Lisocs). Bad Kreuznach, Germany (West)
[AD-A140243] 16 p2530 N84-26243
On the structure of the narrow cold-frontal rainband
16 p2532 N84-26254
Effect of certain geometrical parameters on metrological characteristics of multichamber black body
17 p2637 N84-26871
Meteorological and dynamical requirements for MST radar networks: Waves 17 p2683 N84-27060
Evaluation of probabilities of large deviations of climatic characteristics from present levels
17 p2697 N84-27179
Hydrogeological and hydrometeorological precursors of Ashkhabad catastrophic earthquake
17 p2705 N84-27228
Meteorological models for estimating phenology of corn
[E84-10160] 17 p2709 N84-27252
Evaluation of meteorological airborne Doppler radar
17 p2715 N84-27287
On the statistical analysis of cloud seeding experiments 17 p2733 N84-27370
A system for managing meteorological data
[INPE-3029-PRE/466] 17 p2733 N84-27373
Computerized hydrologic research complex 'Gidrozond' 18 p2856 N84-28139

Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-E: Clark AFB, Philippines
[AD-A141228] 18 p2890 N84-28342
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Malmstrom AFB, Montana
[AD-A141229] 18 p2890 N84-28343
Outlook for improved numerical weather prediction using satellite data with a special emphasis on the hydrological variables
[AD-A141233] 18 p2890 N84-28344
SNOW-ONE-A and B characterization measurements and data analysis
[AD-A141245] 18 p2890 N84-28345
Atmospheric environment for space shuttle (STS-13) launch
[NASA-TM-82588] 19 p3057 N84-29396
Investigation of the detectability and lifetime of gust fronts and other weather hazards to aircraft
[AD-A141552] 19 p3058 N84-29404
Observational requirements and measurement systems concepts 20 p3219 N84-30452
Meteorological research and support for the MIZEX (Marginal Ice Zone Experiment) program
[AD-A142409] 20 p3245 N84-30598
Climatological Summary Programs F6 and CLIMAT
[PB84-185941] 20 p3246 N84-30603
Some physical concepts in complex terrain meteorology derived from the Department of Energy's ASCOT program
[DE84-010059] 20 p3247 N84-30607
World meteorological activities report
[WMO-628] 20 p3248 N84-30614
Analysis of some cloud and frontal events recorded during the Boulder Upslope Cloud Observation Experiment (BUCOE) of 1982
[PB84-179662] 20 p3249 N84-30622
Doppler-radar observation of the evolution of downdrafts in convective clouds
[NASA-CR-173874] 21 p3450 N84-31896
Bering Air-Sea-Ice Study (BASICS), February and March, 1981
[PB84-196161] 22 p3615 N84-32903
A study of antarctic remote site automatic weather station data (1980-81) from the ross ice shelf area
[AD-A143738] 23 p3802 N84-34105
Lightning Observations above and below clouds 24 p3927 N84-34856
Mesoscale and severe storms (Mass) data management and analysis system 24 p3929 N84-34871
A statistical evaluation and comparison of VISSR Atmospheric Sounder (VAS) data 24 p3932 N84-34892
The International Satellite Cloud Climatology Project (ISCCP) preliminary implementation plan
[WCP-20] 24 p3933 N84-34899

METEOROLOGICAL PROBES
U SONDES

METEOROLOGICAL RADAR
An evaluation of an automatic cell detection and tracking algorithm
[AD-A130068] 01 p0107 N84-10694
Radar meteorology in cloud physics and radio wave propagation research
[ESA-TT-808] 03 p0412 N84-12695
Data acquisition for evaluation of an airborne lightning detection system
[AD-A135318] 08 p1100 N84-17153
Decoder for manually digitized radar observations
[PB84-127539] 09 p1351 N84-18826
World Weather Watch Planning report no. 38: Very short range forecasting: Observations, methods and systems
[WMO-621] 15 p2371 N84-25226
Definition and design of spaceborne lidar instruments 16 p2529 N84-26240
On the extraction of atmospheric turbulence parameters from radar backscatter Doppler spectra. Part 1: Theory 17 p2689 N84-27127
Characteristics of Sunset radar 17 p2690 N84-27131
Capabilities and limitations of existing MST radars: Colorado wind profilers 17 p2690 N84-27132
Capabilities and limitations of existing MST radars: Poker Flat — Alaska 17 p2690 N84-27133
VHF radar measurements during MAP/WINE 17 p2691 N84-27135
The Urbana MST radar, capabilities and limitations 17 p2691 N84-27136
Seminar on Radar Meteorology — conferences
[WMO-626] 18 p2886 N84-28314
The use of radar in modern meteorology 18 p2886 N84-28315
Technical and meteorological qualifications of areal precipitation measurement by radar 18 p2886 N84-28316
Quantitative measurement of rainfall rate, theoretical basis 18 p2886 N84-28317
Practical measurement of rainfall rate by radar 18 p2886 N84-28318
Digital radar information in the Swiss Meteorological Institute 18 p2886 N84-28319
Precipitation and precipitation efficiencies derived from single Doppler radar 18 p2887 N84-28321
Radar meteorology for flight assistance formation of data bank for use of radar and satellite data 18 p2887 N84-28322
Use of radar in the pilot project 18 p2887 N84-28323
Doppler weather radar applications to terminal and enroute air traffic control 18 p2887 N84-28324
Dynamics of radar cloud characteristics 18 p2887 N84-28325
Topics in cloud physics relevant to radar meteorology 18 p2887 N84-28326
Information from bias measurement — meteorological radar signals 18 p2888 N84-28327
Some radar measurements in the North Adriatic Sea — clouds 18 p2888 N84-28330
Planned radar network in hail suppression 18 p2888 N84-28331
Radar network in West Germany — meteorological radar 18 p2888 N84-28332
Radar network in Sweden — meteorological radar 18 p2888 N84-28333
Presentation of 5 films to illustrate the theory of precipitation measurements by radar 18 p2889 N84-28336
An investigation of the existence of a surface water layer on aircraft radomes during simulated flight in heavy precipitation
[NASA-TM-85813] 19 p3003 N84-29035
HF omnidirectional spectral CW auroral radar (HF-OSCAR) at very high latitude. Part 1: Technique
[DMI-GEOPHYS-PAPERS-R-67] 19 p3010 N84-29079
Objective analysis and prediction techniques, 1983
[AD-A142441] 20 p3245 N84-30599
Doppler-radar observation of the evolution of downdrafts in convective clouds
[NASA-CR-173874] 21 p3450 N84-31896
A four-dimensional thunderstorm model for flight simulators
[AD-P003492] 21 p3514 N84-32258
Thunderstorm impact on Denver air traffic control operations and the role of NEXRAD (Next Generation Weather Radar)
[PB84-189729] 22 p3534 N84-32374
A discriminant analysis of radar data applied to severe storms 23 p3775 N84-33933
Experimental validation of a millimeter wave radar technique to remotely sense atmospheric pressure at the Earth's surface 23 p3775 N84-33935
Coherent polarimetric C-band radar for atmospheric research 23 p3776 N84-33937
Spaceborne lidar applications to meteorology and environmental studies 24 p3904 N84-34725
Design of a spaceborne lidar for measurements from operational satellites 24 p3907 N84-34745
Mapping of Arctic haze using airborne lidar 24 p3907 N84-34746
Radar analyses of mesoscale meteorological phenomena during the AVE/VAS correlation field experiment 24 p3932 N84-34889
Development of the Centralized Storm Information System (CSIS) for use in severe weather prediction 24 p3932 N84-34890

METEOROLOGICAL RESEARCH AIRCRAFT
NASA B-57B severe storms flight program
[NASA-TM-84921] 05 p0628 N84-14129
Data acquisition for evaluation of an airborne lightning detection system
[AD-A135318] 08 p1100 N84-17153
Flight tests of instrumentation for airborne carbon dioxide flux measurement
[AD-A135856] 09 p1342 N84-18767
Lightning data analysis
[AD-A138136] 12 p1860 N84-22118
Correlated measurements of UHF radar signatures, RF radiation and electric field changes from lightning
[NASA-TM-84425] 16 p2481 N84-25907

METEOROLOGICAL ROCKETS
U SOUNDING ROCKETS

METEOROLOGICAL SATELLITES
NT DMSP SATELLITES
NT METEOSAT SATELLITE
NT NIMBUS SATELLITES
NT NIMBUS 5 SATELLITE
NT NIMBUS 7 SATELLITE
NT NOAA SATELLITES
NT NOAA 6 SATELLITE
NT NOAA 7 SATELLITE
NT NOAA 8 SATELLITE
NT SAN MARCO SATELLITE
NT SIRS B SATELLITE
NT SMS 2
NT SYNCHRONOUS METEOROLOGICAL SATELLITE
NT TIROS N SERIES SATELLITES
Digital transmission and visualization of meteorological satellite images
[INPE-2909-PRE/367] 02 p0239 N84-11567
US weather satellites and services
[GPO-25-753] 03 p0340 N84-12208
Satellite activities of NOAA (National Environmental Satellite Data and Information Service) 1982
[PB83-252510] 04 p0568 N84-13747
Utilization of satellite data in mesoscale models of severe weather
[NASA-CR-175122] 06 p0681 N84-15730
Analysis of severe storm data
[NASA-CR-170947] 06 p0681 N84-15732
Geostationary meteorological satellite image navigation
[INPE-2772-RPE/435] 07 p1023 N84-16832
Assessments by satellite of meteorological data for water resources
[INPE-2949-PRE/432] 07 p1023 N84-16835
Transfer of civil meteorological satellites
[H-REPT-98-509] 08 p1113 N84-17236
Navy tactical applications guide. Operational environmental satellites. Polar-orbiting satellites geostationary satellites, spacecraft, sensors, imagery
[AD-A135486] 08 p1113 N84-17240
NOAA (National Oceanic and Atmospheric Administration) satellite programs briefing
[PB84-108349] 08 p1193 N84-17781
Partial level down in brightness of Geostationary Meteorological Satellite (GMS) infrared (IR) images caused by the Moon 09 p1347 N84-18800
Rapid fading of the signal level on 2 GHz microwave communication link between CDAS and MSC 09 p1347 N84-18801
A history of the satellite wind estimation at MSC and the present accuracy of satellite winds 09 p1347 N84-18803
Radiation and clouds, the International Satellite Cloud Climatology Project (ISCCP) 10 p1535 N84-20060
The commercialization of meteorological and land remote-sensing satellites
[GPO-20-901] 11 p1622 N84-20614
AgRISTARS stage 3: The Bristol interactive scheme (BIAS) for satellite-improved rainfall monitoring: Further developments, testing and method description
[PB84-150630] 12 p1837 N84-21976
Transfer of civil meteorological satellites
[S-REPT-98-260] 14 p2248 N84-24503
Verification and validation techniques applied to the reconfigurable block SD satellite software 15 p2269 N84-24826
Second-generation Meteosat: System study, executive summary
[ESA-SP-1063] 15 p2371 N84-25224
World Weather Watch Planning report no. 38: Very short range forecasting: Observations, methods and systems
[WMO-621] 15 p2371 N84-25226
GMS observations of Typhoon 8305(Abby) and heavy rainfall of eastern Japan
[ISSN-0388-0853] 16 p2528 N84-26230
Applications of laser for climatology and atmospheric research
[BLEV-R-85.169-5] 16 p2529 N84-26237
Quantities of interest to climatology and atmospheric physics, volume 2 16 p2529 N84-26239
Definition and design of spaceborne lidar instruments 16 p2529 N84-26240
The impact of satellite temperature soundings on the forecasts of a small national meteorological service 17 p2717 N84-27295
Weather satellites
[KNMI-152-BV-3] 18 p2802 N84-27783
Multipath induced errors in meteorological Doppler/interferometer location systems
[NASA-CR-175243] 18 p2844 N84-28058
A spiral analysis technique for monitoring and predicting tropical cyclone intensity using satellite data
[AD-A141468] 19 p3058 N84-29401
Evolution and flight history of the Defense Meteorological Satellite Program (DMSP) propulsion module 20 p3137 N84-29917
Objective analysis and prediction techniques, 1983
[AD-A142441] 20 p3245 N84-30599
Introduction to Meteorological Satellite Center of Japan Meteorological Agency 21 p3446 N84-31864
International Meteorological Satellite System: Issues and options
[PB84-199603] 21 p3450 N84-31889
On the use of meteorologic satellites in hydrology
[INPE-2879-PRE/404] 23 p3763 N84-33851

Precipitation monitoring over land from satellites by microwave radiometry 23 p3774 N84-33924
GMS observations of Typhoon 8205, 8212, 8213 23 p3800 N84-34092
Report of the second session of the International Working Group on Data Management for the International Satellite Cloud Climatology Project (ISCCP) [WCP-52] 23 p3801 N84-34103
An evaluation of the SPADS automated cloud analysis program [AD-A143987] 23 p3802 N84-34106
Spatial structures of optical parameters in the California current as measured with the Nimbus-7 coastal zone color scanner [AD-A144070] 23 p3803 N84-34115
Meteorological Satellite Center Technical Note no. 9, 1984 [ISSN-0386-9853] 24 p3921 N84-34816
Introduction to the International Satellite Cloud Climatology Project (ISCCP) 24 p3922 N84-34822
Analysis of satellite data for sensor improvement (detection of severe storms from space) 24 p3932 N84-34888
The International Satellite Cloud Climatology Project (ISCCP) preliminary implementation plan [WCP-20] 24 p3933 N84-34899

METEOROLOGICAL SERVICES
Review of the use of the thermodynamic diagram and its functions (with the application towards AFOS) [PB84-120815] 09 p1350 N84-18822
Operational numerical weather prediction on the CYBER 205 at the National Meteorological Center 10 p1559 N84-20211
Measurement capabilities of the Bendix Metrology Organization [DE84-005876] 11 p1661 N84-20834
Activities report of the Institute of Meteorology [AR-82-83] 12 p1861 N84-22128
Distortion of the wind field by the Cabauw meteorological tower [KNMI-WR-83-15] 12 p1862 N84-22130
Proceedings of the Conference on Cooperative Climate Services [PB84-152081] 12 p1863 N84-22137
World Weather Watch: The plan and implementation program, 1984-1987 [WMO-617] 13 p2017 N84-23078
Reports from the German Meteorological Service. No 21: The evolution of meteorological observations in Austria, including Bohemia and Moravia up to the year 1700 [ISBN-3-88148-208-3] 14 p2178 N84-24046
The evaluation of rain gages, illustrated by the Thies rain gage and the electrical rain gage of the Royal Netherlands Meteorological Institute (KNMI) [KNMI-WR-83-16] 14 p2180 N84-24057
Federal plans for cooperative backup among operational processing centers [PB84-174796] 16 p2531 N84-26253
The impact of satellite temperature soundings on the forecasts of a small national meteorological service 17 p2717 N84-27295
Use of radar in the pilot project 18 p2887 N84-28323
World meteorological activities report [WMO-628] 20 p3248 N84-30614
National Hurricane Operations Plan [PB84-198637] 21 p3450 N84-31886
Selected worldwide marine weather broadcasts [PB84-192655] 21 p3450 N84-31894
Agriculture weather services [GPO-27-913] 22 p3624 N84-32966
Hurricane Alicia: Prediction, damage and recovery efforts [GPO-33-446] 22 p3625 N84-32968

METEOROLOGICAL STATIONS
U WEATHER STATIONS

METEOROLOGY
NT AEROLOGY
NT AGROMETEOROLOGY
NT ALPINE METEOROLOGY
NT HYDROMETEOROLOGY
NT LONG RANGE WEATHER FORECASTING
NT MARINE METEOROLOGY
NT MESOMETEOROLOGY
NT MICROMETEOROLOGY
NT NOWCASTING
NT NUCLEAR METEOROLOGY
NT NUMERICAL WEATHER FORECASTING
NT POLAR METEOROLOGY
NT STATISTICAL WEATHER FORECASTING
NT SYNOPTIC METEOROLOGY
NT TROPICAL METEOROLOGY
NT WEATHER FORECASTING
Afternoon effect studies, part 1 [AD-A130926] 01 p0140 N84-10918
Catalog of the Oak Ridge National Laboratory Meteorological Tape Library [DE83-017493] 01 p0162 N84-11067
Representativeness of meteorological observations [DE83-017699] 04 p0568 N84-13743
The 27th AFOSR (Air Force Office of Scientific Research) chemical and atmospheric sciences program review (27th) [AD-A133718] 05 p0703 N84-14612
Bibliography of the climate of the Netherlands and atmospheric conditions in the Netherlands [KNMI-164] 05 p0706 N84-14635
Atmospheric environment for space shuttle (STS-8) launch [NASA-TM-82560] 05 p0708 N84-14636
Meteorological yearbook of Finland, volume 77, part 1b. Climatological data from Jokioinen and Sodankylae Observatories, 1977 [ISBN-951-697-189-X] 07 p1035 N84-16713
Dynamic meteorology; control theory and optimization. Research programme, 1983-1984 [CSIR-SWISK-31] 07 p1094 N84-17115
On generation, estimation, utilization, availability and compatibility aspects of geodetic and meteorological data [AD-A135844] 10 p1436 N84-19388
Slick and quick data entry for AFOS Era Verification (AEV) programs [PB84-138726] 10 p1542 N84-20103
USSR report: Earth sciences [JPRS-UES-84-003] 11 p1669 N84-20891
Meteorologically induced uncertainty in LRT modeling [DE84-003444] 11 p1676 N84-20935
In situ data 12 p1835 N84-21959
Application of augmented-Lagrangian methods in meteorology: Comparison of different conjugate-gradient codes for large-scale minimization 12 p1854 N84-22076
Global energy and CO2-induced climate change [PB84-145895] 12 p1862 N84-22131
Reports from the German Meteorological Service. No 21: The evolution of meteorological observations in Austria, including Bohemia and Moravia up to the year 1700 [ISBN-3-88148-208-3] 14 p2178 N84-24046
Index of air weather service technical publications [AD-A139133] 14 p2179 N84-24054
Generalized Exponential Markov (GEM) updating procedure for AFOS (Automation of Field Operations and Services) [PB84-154822] 14 p2180 N84-24060
Case study of layer fine structure and turbulence within stable elevated layers [PB84-158666] 14 p2182 N84-24078
Guide to hydrological practices. Volume 2: Analysis, forecasting and other applications [WMO-168] 15 p2358 N84-25145
Atmospheric environment for Space Shuttle (STS-11) launch [NASA-TM-82580] 15 p2366 N84-25194
Computer program for treating and compiling ionospheric data [FOA-C-30354-E] 15 p2391 N84-25346
USSR report: Earth sciences [JPRS-UES-84-004] 17 p2696 N84-27177
Tracking ocean wave spectrum from SAR images 17 p2714 N84-27277
A tentative unified sea model for scattering and emission 17 p2715 N84-27285
Survey of urban meteorological data [AD-A140890] 17 p2734 N84-27380
USSR report: Earth sciences [JPRS-UES-84-005] 18 p2855 N84-28132
Brookhaven National Laboratory Coastal Meteorology Program, 1972-1983 [DE84-008584] 18 p2891 N84-28349
Spatial patterns of climate and climatic change. Part 1: Summary report, appendices 1-5 [DE84-010253] 19 p3059 N84-29408
USSR report: Earth sciences [JPRS-UES-84-006] 20 p3223 N84-30479
Inevitable climatic changes 20 p3223 N84-30480
Publications --- bibliographies 20 p3245 N84-30594
Objective analysis and prediction techniques, 1983 [AD-A142441] 20 p3245 N84-30599
World meteorological activities report [WMO-628] 20 p3248 N84-30614
National Weather Service hurricane probability program [PB84-182757] 20 p3248 N84-30619
Space research in Pakistan: A relentless pursuit 21 p3346 N84-31227
On the zonally averaged temperature in the Southern Hemisphere [INPE-3139-PRE/528] 21 p3443 N84-31846
Introduction to Meteorological Satellite Center of Japan Meteorological Agency 21 p3446 N84-31864
Federal plan for meteorological services and supporting research, fiscal year 1985 [PB84-182732] 21 p3449 N84-31884
A computer calculation and display station for slosh hurricane surge model data [PB84-198753] 21 p3449 N84-31887
International Meteorological Satellite System: Issues and options [PB84-199603] 21 p3450 N84-31889
Sources of error in objective analysis [AD-A142772] 21 p3474 N84-32020
Studies in climate [PB84-196385] 22 p3626 N84-32977
A scientific visit to the Institute of Polar Study of Japan [INPE-3161-NTE/221] 23 p3801 N84-34097
Rainfall patterns in the desert [WCP-75] 23 p3801 N84-34099
Rain rate climatologies over marine regions [AD-A144066] 23 p3802 N84-34109
Catalog of existing published periodicals of INPE, Volume 7 [INPE-2866-NTE/206] 23 p3834 N84-34320
The Karman vortex street detected by the geostationary meteorological satellite Himawari 24 p3921 N84-34817
NASA climate data catalog [NASA-TM-86085] 24 p3923 N84-34827
Pilot climate data system: User's guide for charts subsystem [NASA-TM-86151] 24 p3945 N84-34975
Model study of the atmospheric frontogenesis. 2: Theoretical model 24 p3956 N84-35047
East European report: Science and technology [JPRS-ESA-84-031] 24 p3960 N84-35071
Current concerns in fields of hydrology, meteorology 24 p3960 N84-35076
Cloud and ice in the planetary scale circulation and in climate [NASA-CR-173992] 24 p3990 N84-35244

METEORS
U METEOROIDS

METEOSAT SATELLITE
Software engineering techniques employed in on-schedule completion of Meteosat-2 software 05 p0723 N84-14746
The European Space Agency's Earth observation satellite programmes 06 p0867 N84-15647
Group Agromet Monitoring Project (GAMP), phase 1 [ESA-CR(P)-1789] 07 p1023 N84-16637
Radiation budget parameters from Meteosat-2 data 10 p1534 N84-20049
Accuracy of the short wave radiation budget derived from Meteosat-VIS-data 10 p1535 N84-20055
Mapping of global radiation from Meteosat image data 10 p1536 N84-20065
Observations of differential charging with METEOSAT [AD-P002112] 16 p2523 N84-26198
Weather satellites [KNMI-152-BV-3] 18 p2802 N84-27783

METERS
U MEASURING INSTRUMENTS

METHACRYLATE RESINS
U ACRYLIC RESINS

METHANATION
Methanol production from natural gas or coal [DE83-901909] 01 p0053 N84-10340
Fluidized bed gasification of biomass to methane [NASA-CASE-NPO-15903-1] 03 p0403 N84-12635
Origin of electron-bombardment enhanced reactivity of graphite with hydrogen [DE83-017561] 04 p0600 N84-13960
Promoter modifications of catalytic activity and selectivity [DE84-003179] 07 p0970 N84-16287
Crystallite size and support effects on CO hydrogenation reactions [DE84-012474] 21 p3360 N84-31314

METHANE
Catalysed low-temperature production of methane from water and graphite [DE83-012474] 02 p0203 N84-11325
Analysis of gases in the Earth's crust [PB83-243972] 02 p0251 N84-11643
Studies related to the deep Earth gas [PB83-244004] 02 p0251 N84-11644
Fluidized bed gasification of biomass to methane [NASA-CASE-NPO-15903-1] 03 p0403 N84-12635
Molecular supersonic jet studies of Aniline solvation by helium and methane [AD-A132879] 05 p0650 N84-14276
Heat and mass transfer during the growth and dissociation of gas hydrates in porous media [PB83-255414] 05 p0682 N84-14482

Procedure for producing higher hydrocarbons
[NRC/CNR-TT-2073] 06 p0800 N84-15217
Transport algorithms for methane flames
[AD-A133213] 06 p0801 N84-15221
A spectrum of methane from 700 to 5500 cm-1
[NASA-CR-175360] 07 p0969 N84-16260
Amine terminated bisaspartimides, process for preparation thereof, and polymers thereof
[NASA-CASE-ARC-11421-1] 07 p0978 N84-16340
Mechanisms and reaction dynamics related to methane combustion
[PB84-100932] 06 p1128 N84-17333
Kinetic mechanisms for premixed, laminar, steady state methane/air flames
[AD-A137263] 11 p1629 N84-20658
Biothermal conversion of biomass and wastes to methane
[DE84-008052] 11 p1675 N84-20931
Vibrational energy transfer at a surface in reacting systems. Decomposition of azomethane
[AD-A137966] 12 p1901 N84-22381
Helium-neon lasers for remote measurements of natural gas leaks 15 p2430 N84-25595
Microbiological and biochemical studies towards optimization of substrate utilization by methanogenic bacteria
[PB84-179753] 16 p2474 N84-25859
Exciplex ionic dissociation in non-polar solvent induced by multipolar salt complexes
[AD-A140919] 17 p2620 N84-26766
Elementary processes in the catalytic combustion of methane (mechanism, intermediates and controlling reactions)
[PB84-181965] 17 p2620 N84-26770
A physical and chemical study of Titan: Atmosphere, clouds, and hazes 17 p2776 N84-27626
Quantum chemical study of methane oxidation species
[NASA-CR-173819] 19 p2987 N84-28928
Supersonic molecular jet studies of Toluene-Helium and Toluene-Methane clusters
[AD-A141379] 19 p2988 N84-28931
Methane producing bacteria: Immunological characterization 19 p3064 N84-29436
Scattering experiments on rotational excitation of methane in collision with noble gases
[MPIS-3/1984] 20 p3297 N84-30936
Reduction of CO2 to methanol and methane by photo and dark reactions on semiconductor electrodes
[PB84-214360] 21 p3363 N84-31334
Effect of gravity on halogenated hydrocarbon flame retardant effectiveness
[NASA-TM-83761] 23 p3713 N84-33536

METHOD OF CHARACTERISTICS
The Shock and Vibration Bulletin. Part 2: Fluid-structure dynamics and dynamic analysis
[AD-A134453] 10 p1510 N84-19881
Fluid-structure interaction by the method of characteristics 10 p1510 N84-19884
A calculation of descent segment of internal ballistics in solid rocket motors
[AD-A137199] 11 p1626 N84-20642

METHOD OF MOMENTS
Ultrasound tomography by Galerkin or moment methods
[AD-A131408] 02 p0266 N84-11747
Variational-moment method for computing magnetohydrodynamic equilibria
[DE83-017477] 03 p0450 N84-12957
The discrete convolution method for solving some large moment matrix equations
[AD-A135420] 06 p1226 N84-18007
A user's manual for Electromagnetic Surface Patch (ESP) code. Version 2: Polygonal plates and wires
[AD-A135837] 09 p1300 N84-18497
Computer assessment of electromagnetic means of detecting approaching cruise missile
[DE84-005115] 10 p1482 N84-19687
General Electromagnetic Model for the Analysis of Complex Systems (GEMACS) computer code documentation (version 3), volume 3, part 2
[AD-A137464] 11 p1644 N84-20750
Analysis of laser spot quality
[AD-A138056] 12 p1820 N84-21861
Asymptotic formulas for distribution moments in solution of radiation transfer equation in stochastic medium 17 p2706 N84-27243
An application of the H-function to curve-fitting and density estimation
[AD-A141045] 18 p2925 N84-28553
Estimation of the generalized extreme-value distribution by the method of probability weighted moments
[AD-A141696] 19 p3093 N84-29642
Computer programs for electromagnetic coupling between a conducting body and an aperture in an infinite conducting plane
[AD-A142975] 21 p3386 N84-31491

METHODOLOGY
Search with limited resources
[AD-A136122] 09 p1384 N84-19039

METHODS
U METHODOLOGY
U PROCEDURES

METHOXY SYSTEMS
Quantum chemical study of methane oxidation species
[NASA-CR-173819] 19 p2987 N84-28928

METHYL ALCOHOLS
Methanol production by catalytic gasification of wood
[DE83-013744] 01 p0053 N84-10341
Low mileage catalyst evaluation with a methanol-fueled Rabbit
[PB83-241620] 02 p0230 N84-11506
Develop and test fuel cell powered on-site integrated total energy system
[NASA-CR-168159] 02 p0241 N84-11581
Reduction of CO2 to methanol and methane by photo and dark reactions on semiconductor electrodes
[PB83-249490] 03 p0358 N84-12329
Optimum engine for methanol utilization
[PB83-239459] 03 p0385 N84-12507
Supercritical multicomponent solvent coal extraction
[NASA-CASE-NPO-15767-1] 07 p0965 N84-16255
Second Berkeley Catalysis and Surface Science Conference
[DE84-005536] 12 p1794 N84-21699
Methanol viewed as alternative to gasoline 14 p2133 N84-23785
Utilization of alternative fuels in diesel engines
[NASA-CR-174669] 17 p2628 N84-26813
Evaluation of dissociated and steam-reformed methanol as automotive engine fuels
[NASA-CR-168242] 18 p2821 N84-27909
Mechanistic studies of catalytic methanol synthesis
[DE84-006380] 21 p3359 N84-31308
Reduction of CO2 to methanol and methane by photo and dark reactions on semiconductor electrodes
[PB84-214360] 21 p3363 N84-31334
Gaseous cementation in nitrogen-methanol atmospheres
[CETIM-12-G-284] 21 p3369 N84-31374
Engine wear with methanol fuel in a nitrogen-free environment
[AD-A143530] 22 p3604 N84-32833

METHYL COMPOUNDS
Thermolysis of 4-methyl-4-phenyl malonyl peroxide: A new oxygen dependent chemiluminescent reaction
[AD-A131863] 03 p0349 N84-12268
Polymers of phosphonylmethyl-2,4- and -2,6-diamino benzenes and the like
[NASA-CASE-ARC-11506-1] 03 p0356 N84-12313
Radiolysis of resist polymers. 1: Poly(methyl-alpha-haloacrylates) and copolymers with methylmethacrylate
[AD-A131864] 03 p0356 N84-12315
A study of the CH2NO2 radical using a multiconfigurational self-consistent field approach
[AD-A133815] 05 p0648 N84-14262
Photodegradation of coumarin laser dyes. An unexpected singlet self-quenching mechanism
[AD-A136339] 09 p1321 N84-18628
Mobility and molecular ions of dimethyl methyl phosphonate, methyl salicylate and acetone
[AD-A140328] 16 p2555 N84-26395
Application of the finite compartment model of carbon adsorption to binary systems
[AD-A141483] 19 p2988 N84-28932
Free radical detection and dynamics in propellant ignition and combustion systems
[AD-A142180] 19 p3002 N84-29023
Calorimetric determination of the thermodynamic behavior of reversible liquid-phase reactions for use in energy storage
[DE84-010437] 21 p3507 N84-32218
Thermal degradation studies of segmented thermoplastic elastomers
[AD-A143954] 23 p3724 N84-33600

METHYLATION
Chemical attenuation rates, coefficients, and constants in leachate migration. Volume 1: A critical review
[DE84-009432] 20 p3238 N84-30557

METHYLENE
Carboranylmethylene-substituted phosphazenes and polymers thereof
[NASA-CASE-ARC-11370-1] 13 p1962 N84-22750
A twisted P-C double bond: Synthesis and structure of a (Methylene)phosphine Fe-CO-4 complex
[AD-A141502] 19 p2984 N84-28907
Substitution and addition reactions of a (Methylene)phosphine with alkyllithium reagents
[AD-A141512] 19 p2984 N84-28908
Synthesis and structure of sulfur derivatives of a (methylene)phosphine
[AD-A141513] 19 p2984 N84-28909
Investigation of reactions of the methylene radical by means of a far infrared-laser magnetic resonance (FIR-LMR) spectrometer
[MPIS-4/1984] 24 p3681 N84-34588

METHYLHYDRAZINE
Prototype chemiluminescent analyzer for measurement of hydrazines and nitrogen dioxide
[AD-A135822] 09 p1279 N84-18354
MMH-nitrate and plume deposits from NTO/MMH engines 13 p1941 N84-22620

METRIC CONVERSION
U METRICATION

METRIC PHOTOGRAPHY
Flight performance of the Spacelab metric camera experiment 23 p3764 N84-33858
Analysis of the metric camera black and white images over Italy 23 p3764 N84-33859
Some considerations of the operations of optical imaging space sensors derived from the experience of the metric camera project 23 p3764 N84-33860

METRIC SPACE
NT HILBERT SPACE
On the reduction procedure for weak convergence of measures
[CTH-MATH-1983-19] 14 p2215 N84-24306
G-spaces: Compactifications and pseudocompactness
[MC-ZW-200/83] 19 p3095 N84-29658

METRIC SYSTEM
U INTERNATIONAL SYSTEM OF UNITS

METRICATION
Software quality measurement for distributed systems, volume 1
[AD-A137955] 11 p1707 N84-21128
Data word standardization
[AD-P003543] 21 p3333 N84-31147

METROLOGY
Fabrication of machined optics for precision applications
[DE83-015720] 03 p0442 N84-12900
Activities report of the Division of Quantum Metrology
[NPL-QU-AR-82] 16 p2494 N84-26002
Langley's views on NEMS 22 p3672 N84-33280

METROPOLITAN AREAS
U CITIES

MEXICO
Geology, geochemistry, and geochronology of volcanic rocks between Cusuhtemoc and La Junta, central Chihahua, Mexico 13 p2014 N84-23066
Pinacate-Gran Desierto Region, Mexico: SIR-A data analysis 13 p2088 N84-23526
Identifying environmental features for land management decisions
[E84-10125] 14 p2168 N84-23984
MAGSAT correlations with geoid anomalies — western Gulf of Mexico
[E84-10174] 21 p3427 N84-31736
Geology, petrology and tectonic significance of the Mesozoic Paleoceanic terranes of the Vizcaino Peninsula, Baja California Sur, Mexico 21 p3438 N84-31810
MAGSAT correlations with geoid anomalies — magnetic anomalies in the western Gulf of Mexico
[E84-10190] 22 p3613 N84-32894

MICA
NT BIOTITE
Evaluation of mica substitutes for use in thermal batteries
[AD-A140650] 17 p2723 N84-27330

MICE
Acute intramuscular toxicity (LD50) of 1,1'-trimethylenebis (4-(hydroxyiminomethyl) pyridinium bromide) monohydrate, (TMB-4) in male mice
[AD-A133148] 06 p0886 N84-15758
Effect of radiofrequency radiation on DNA duplex stability and replication
[AD-A133526] 07 p1042 N84-16759

MICHELSON INTERFEROMETERS
Far Infrared Radiometric Spectrometer (FIRRS)
[AD-A133552] 06 p0847 N84-15527
A study of a space-station-associated multiple spacecraft Michelson spatial interferometer
[NASA-CR-175438] 11 p1624 N84-20630
Fiber optic sensors
[NASA-TM-77404] 14 p2224 N84-24346

MICHIGAN
Photo interpretation key to Michigan land cover/use
[E84-10048] 04 p0553 N84-13641
Interpreting Michigan forest cover types from color infrared aerial photographs
[E84-10097] 12 p1828 N84-21917

Use of remote sensing for land use policy formulation
[E84-10117] 14 p2167 N84-23977
Aerial photography for ecological site mapping
14 p2169 N84-23990
Integration of LANDSAT land cover data into the Saginaw River basin geographic information system for hydrologic modeling
[AD-A140185] 16 p2510 N84-26106
Thematic Mapper data quality and performance assessment in renewable resources/agriculture remote sensing 20 p3215 N84-30422
Comparison of land cover information from LANDSAT Multispectral Scanner (MSS) and airborne Thematic Mapper Simulator (TMS) data for hydrologic applications
20 p3216 N84-30431
Geology, hydrology, and mineral resources of crystalline rock areas of the Lake Superior region, US, part 1 — Michigan, Wisconsin, and Minnesota
[DE84-012682] 21 p3432 N84-31775

MICROANALYSIS
High-voltage analytical electron microscopy
[DE83-014318] 01 p0065 N84-10554
Microprobe analyses of rare-earth-element fractionation in meteoritic minerals
[DE83-017326] 04 p0621 N84-14097
Use of shear lag for composite microstress analysis - linear array
[AD-A134174] 07 p0967 N84-16269
The AXAF technology program: The optical flats tests
[NASA-TM-82570] 10 p1578 N84-20341
Characterization of single crystal Cu/sub 2S/CdS heterojunctions by hing resolution electron microscopy
[DE84-006761] 13 p2048 N84-23287
Systematic evaluation of technical causes of damage — fracture mechanics
[ISBN-3-88355-070-1] 14 p2125 N84-23734
Microscopic appearance of vibratory fractures — metal fatigue 14 p2126 N84-23742
The mechanical properties of carbon fibre with glass fibre reinforced plastics 15 p2284 N84-24710
The mechanical properties of carbon fibre with glass fibre hybrid reinforced plastics 21 p3357 N84-31292
Epitaxial crystallization in the Te-HgTe-CdTe system
[CSIR-TRANS-1745] 22 p3661 N84-33206

MICROBALLOONS
Novel optical pin using microballoons
[DE83-015222] 03 p0367 N84-12391

MICROBE
U MICROORGANISMS

MICROBIOLOGY
Plant waste processing on a solid substrate for a biological life-support system for man
07 p1046 N84-16786
Investigation of compounds essential for the origin of life
[NASA-CR-173538] 15 p2378 N84-25272
Microbiological and biochemical studies towards optimization of substrate utilization by methanogenic bacteria
[PB84-179753] 16 p2474 N84-25859
Lack of an effect of corpuscular vaccine against I phase Q-fever on persistence and reactivation of Coxiella burnetii infection in mouse and guinea pigs tissue
17 p2741 N84-27402
Clinical-immunological spectrum of Leishmaniases
17 p2741 N84-27404
Photo/Biological Hydrogen Principal Investigators Review Meeting: Proceedings of the May 1983 Program Review
[DE84-000083] 20 p3235 N84-30536
USSR report: Life sciences. Biomedical and behavioral sciences
[JPRS-UBB-84-017] 21 p3455 N84-31924
Rapid microbial identification by circular intensity differential scattering
[DE84-013894] 22 p3629 N84-32993
USSR report: Life sciences. Biomedical and behavioral sciences
[JPRS-UBB-84-018] 22 p3629 N84-32996
Microbiology and food program
22 p3629 N84-32999
Resistance of microorganisms from mesosphere to periodic freezing-thawing 22 p3630 N84-33001

MICROCALORIMETERS
U CALORIMETERS

MICROCHANNEL PLATES
Recent advances in high-speed photon detectors
[DE83-014862] 02 p0224 N84-11467
Nanosecond image-shuttering studies at Los Alamos National Laboratory
[DE84-001733] 06 p0830 N84-15405
Development and applications of the microchannel spatial light modulator
[AD-A136132] 09 p1323 N84-18645
Method and apparatus for enhancing microchannel plate data
[DE84-014498] 24 p3899 N84-34690

MICROCHANNELS
Channel electron multiplier and optically coupled amplifier used as an incident-flux monitor
[DE84-001451] 04 p0538 N84-13539

MICROCIRCUITS
U MICROELECTRONICS

MICROCLIMATOLOGY
The synthesized climatic function map
03 p0400 N84-12617

MICROCOMPUTERS
NT PERSONAL COMPUTERS
Microcomputer aided tracking (MCAT)
[AD-A130651] 01 p0065 N84-10426
Composite laminate weight optimization on the Timex-Sinclair 1000 microcomputer
[AD-A130214] 01 p0121 N84-10789
Utility programs for generating the Hershey character fonts on microcomputers and laboratory plotters
[PB83-220467] 01 p0125 N84-10813
Local networking with intelligent nodes
[DE83-014900] 01 p0127 N84-10832
Microcomputers: A tool for planning and scheduling construction projects
[PB83-211201] 01 p0160 N84-11053
Joint University Program for Air Transportation Research, 1982
[NASA-CP-2285] 02 p0167 N84-11099
RF front end interface and AGC modification
02 p0168 N84-11102
Preliminary description of the area navigation software for a microcomputer-based Loran-C receiver
02 p0168 N84-11103
Computer science and technology: Microcomputer: A review of federal agency experiences
[PB83-236972] 02 p0271 N84-11772
Portable kernel for computers
[INPE-2877-PRE/403] 02 p0271 N84-11775
Techniques for integrated text and image processing and communication
[BMFT-FB-T-83-104] 02 p0302 N84-11985
A microcomputer program package of the USAF stability and control DATCOM
[AD-A132143] 04 p0487 N84-13199
NRIO microcomputer system
[CSIR-T/SEA-8134] 04 p0577 N84-13805
The DJS-054II microcomputer
[AD-A132552] 04 p0577 N84-13807
Logic design of a shared disk system in a multi-micro computer environment
[AD-A132165] 04 p0585 N84-13862
Tendering on a micro computer
05 p0717 N84-14700
Site computers 05 p0717 N84-14701
Microcomputer networking: A CP/M-Based application
[AD-A134124] 05 p0718 N84-14707
Preliminary evaluation of the light pen as the key component in a microcomputer-based simulator
[AD-A132596] 05 p0719 N84-14712
The use of a microcomputer system as an aid to classical and digital control system design and analysis
[AD-A132945] 05 p0720 N84-14718
An efficient generator of uniformly distributed random deviates between zero and one
[AD-A132851] 05 p0741 N84-14865
Laboratory automation of a quadrupole mass spectrometer 06 p0932 N84-16053
A portable real-time data processing system for standard meteorological radiosondes
[NASA-CR-175358] 07 p1036 N84-16719
A real-time, portable, microcomputer-based jet engine simulator
[NASA-TM-83550] 07 p1052 N84-16812
Some efficient random number generators for micro computers
[AD-A134558] 07 p1053 N84-16815
Microcomputer software system development: Suggested revisions to MIL-STD-1521A for cost-effective acquisition of custom software through software engineering
[AD-A134363] 07 p1055 N84-16830
Some experiences with gasp-like microcomputer simulation languages in FORTRAN, Pascal, and Ada
[AD-A134543] 07 p1055 N84-16832
Use of digitized radar and microcomputers to forecast local floods and irrigation needs
[PB84-105568] 08 p1192 N84-17767
A reliability and failure mode analysis of celestial training device microcomputers employed by SAC and MAC
[AD-A135003] 08 p1209 N84-17885
PASCAL/48 reference manual
[NASA-TM-85752] 08 p1211 N84-17900
Experimental investigation of dynamic stall
[AD-A135846] 09 p1252 N84-18172
Velocity control decision-making ability: Relationship to flying capability and experience
[AD-A136546] 09 p1363 N84-18901
A layered communication system for ethernet
[AD-A136799] 10 p1481 N84-19676
Development of microcomputer compatible power switches
[BMFT-FB-T-83-277] 10 p1488 N84-19731
Smart instrumentation development at Los Alamos
[DE84-003621] 10 p1499 N84-19798
Aircraft generation equipment emissions estimator (AGEEE)
[AD-A136829] 10 p1532 N84-20031
A microcomputer based general linear programming optimization package
[AD-A137506] 10 p1557 N84-20198
Implementation of a reliability shorthand on the Apple 2(+) microcomputer
[AD-A136778] 10 p1557 N84-20203
Requirements analysis for forward funding tracking system, volume 1
[AD-A136840] 10 p1591 N84-20425
The microcomputer knowledge base: Introduction and user instructions
[AD-A137694] 11 p1704 N84-21108
Use of microcomputers for inventory management with uncertain demand
[DE84-005179] 11 p1705 N84-21112
Multiplication of processing capacity with a parallel processor array
[DE84-004654] 11 p1711 N84-21156
Integrating micro-computers with a centralized DBMS: ORACLE, SEED AND INGRES
11 p1748 N84-21409
Printed circuit board layout by microcomputer
[AD-A138427] 12 p1813 N84-21816
Successful use of microcomputers in classroom instruction
[RAND/P-6653] 12 p1876 N84-22229
Universal disk controller for microcomputers
[AD-A138333] 12 p1877 N84-22235
ADA1: An ADA subset compiler for the AFIT syntax directed programming environment
[AD-A138027] 12 p1880 N84-22251
Detailed design and implementation of a multiprogramming operating system for sixteen-bit microprocessors
[AD-A138078] 12 p1880 N84-22256
Placing hidden surface removal within the CORE graphics standard: An example
[AD-A138239] 12 p1882 N84-22266
A microcomputer based system for analysis of line drawing quantization techniques
[AD-A138413] 12 p1883 N84-22272
Microcomputer numerical analysis system for gas dynamics application
[NASA-CR-171005] 13 p1988 N84-22908
The microcomputer in the acquisition environment
[AD-P002748] 13 p2049 N84-23295
Computer applications to geotechnical engineering
[AD-A139271] 14 p2134 N84-23789
Command Post Modem/Processor (CPM/P)
[AD-P002151] 14 p2136 N84-23816
Development of a microcomputer-based engineering design optimization software package
[AD-A139123] 14 p2205 N84-24232
Development of a proposed standard for the exchange of scientific microcomputer programs
[PB84-157940] 14 p2207 N84-24244
Abstracts of the 20th Annual Meeting: Society of Engineering Science, Incorporated
[AD-A138155] 15 p2306 N84-24833
KINSYN and micro KINSYN: User-friendly computer systems for linkage design 15 p2312 N84-24873
Computer science and technology: Selection of microcomputer systems
[PB84-167725] 15 p2389 N84-25331
Automatic, self-nulling, spectral scanning ellipsometer: Software for the LSI-11 data acquisition system
[LBL-15525] 16 p2543 N84-26320
Construction of engineering drawings using a personal computer 16 p2544 N84-26329
The silicon AIDS (Airborne Integrated Data Systems)
17 p2587 N84-26583
Analysis of operation of frequency synthesizer of television receiver with micro-electronic computer in a control circuit 17 p2632 N84-26840
Microcomputer and mythology: Procrustean assignments
[INPE-3012-PRE/455] 17 p2749 N84-27449
Where and how variables are structured in the ZX81/TS1000/ TK82C/CP200 memory
[INPE-3014-PRE/457] 17 p2749 N84-27450

The Pringle parallel computer
[AD-A140852] 17 p2750 N84-27452
Microcomputers: Introduction to features and uses
[PB84-178821] 17 p2750 N84-27456
A relational database system for microcomputers: Analysis, design, implementation and performance evaluation 17 p2771 N84-27596
Automated inspection of analog-digital standard replacement components 18 p2824 N84-27927
East Europe Report: Scientific affairs
[JPRS-ESA-84-004] 18 p2827 N84-27946
Institute achievements in man-machine relations 18 p2827 N84-27950
Astronomical application of IR CID technology
[NASA-CR-166584] 18 p2844 N84-28057
The Demos multi-computer project: Hardware aspects
[NPL-DITC-36/84] 18 p2917 N84-28493
Utilization of AC and DC converters in the design and use of a system of acquisition retrieval of analogic data 18 p2944 N84-28669
A real-time air dispersion modeling system
[AD-A141405] 19 p3052 N84-29368
A design method for a state feedback microcomputer controller of a wide bandwidth analog plant
[AD-A142101] 19 p3072 N84-29490
Learning about supercomputers on a microcomputer with no keyboard: A science museum exhibit
[DE84-001177] 19 p3073 N84-29496
Precision digital dilatometry: A microcomputer-based approach to sintering studies
[DE84-009794] 19 p3073 N84-29497
Microcomputer-based graphical linear programming package
[AD-A141094] 19 p3075 N84-29508
Automated Q-GERT source code generation using computer aided design
[AD-A141127] 19 p3075 N84-29509
Microcomputer network for Computerized Adaptive Testing (CAT): Program listing. Supplement
[AD-A141569] 19 p3077 N84-29521
Communicating between the IBM personal computer and the Wang word processing system
[DE84-010423] 20 p3267 N84-30729
Military Computer Family Operating System: An Ada (trademark) application
[AD-P003427] 20 p3271 N84-30759
Report on the experience with the Supervisory Control and Diagnostics System (SCDS) of MFTF-B
[DE84-012599] 20 p3278 N84-30807
Control computer and automation subsystem equipment in Delfin Facility 20 p3289 N84-30880
Standardized computing system SDS80
[AD-P003585] 21 p3340 N84-31190
The new algorithm for symbolic network analysis 21 p3390 N84-31509
A data acquisition and analysis system for fiber creep testing
[DE84-012654] 21 p3422 N84-31709
Fracture mechanics formulas on microcomputers
[CETIM-100960] 21 p3424 N84-31722
Automated Construction Management System (ACMS). Volume 1: User's guide
[AD-A143031] 21 p3465 N84-31971
Automated Construction Management System (ACMS). Volume 2: Program documentation
[AD-A143032] 21 p3466 N84-31972
The arithmetic of differentiation
[AD-A142964] 21 p3473 N84-32011
New technical information media
[CSIR-TRANS-1731] 21 p3518 N84-32284
Engineering changes to the 0.1m cryogenic wind tunnel at Southampton University
[NASA-CR-172430] 22 p3538 N84-32397
USSR report: Electronics and electrical engineering
[JPRS-UEE-84-006] 22 p3565 N84-32580
Microcomputers in transportation: Software and source book
[PB84-195155] 22 p3638 N84-33067
Improved techniques for data acquisition and analysis on X-ray diffraction equipment
[Y-2282] 23 p3750 N84-33774
Control and supervision of nut fastening by means of a microcomputer
[BMFT-FB-T-84-106] 23 p3757 N84-33818
Modeling and control of an on-board oxygen generation system 23 p3811 N84-34164
System design of a remotely operated, program controlled measurement table for the calibration of the Egret experiment. Part A: Program control
[NASA-TM-77758] 23 p3812 N84-34172
Flexible disk data storage unit
[INPE-2982-RPE/451] 23 p3814 N84-34181
Introduction to PASCAL language
[INPE-2888-PRE/408] 23 p3814 N84-34182
Managing microcomputers: A survival kit for functional managers
[AD-A144006] 23 p3833 N84-34316
The simulation of a major Automated Information System (AIS) on a microcomputer
[AD-A143599] 23 p3834 N84-34323
The creation of a central database on a microcomputer network
[AD-A143875] 23 p3835 N84-34326
Evaluation of microcomputer energy analysis programs
[AD-A144684] 24 p3942 N84-34959
East Europe report: Science and technology
[JPRS-ESA-84-033] 24 p3943 N84-34960
New computer developments described 24 p3943 N84-34962
New computer developments described 24 p3943 N84-34965
East Europe report: Science and technology
[JPRS-ESA-84-026] 24 p3943 N84-34967
Robotron K 1520 microcomputer 24 p3943 N84-34968
Microcomputers of Socialist countries 24 p3944 N84-34969
Computers, microprocessors, economy of USSR 24 p3944 N84-34970
Computer aided data acquisition and control of an internal combustion engine
[AD-A144425] 24 p3946 N84-34990
East European report: Science and technology
[JPRS-ESA-84-031] 24 p3960 N84-35071
Microcomputer-aided A/D converters 24 p3960 N84-35074

MICROCRACKS
Advanced fatigue damage development in graphite epoxy laminates
[AD-A130190] 01 p0031 N84-10194
Effect of structural factors on the crack resistance of tungsten carbide/cobalt alloys at high temperatures
[CSIR-1682] 01 p0042 N84-10269
Mathematical models for inelastic behavior and cracking of concrete structures 01 p0093 N84-10605
La Recherche Aerospatiale, Bimonthly Bulletin, no. 1982-6, 211/November-December 1982
[ESA-TT-801] 04 p0515 N84-13382
Fatigue process of hard steels 07 p0963 N84-16368
Micro and macro mechanics of fracture in ceramics
[AD-A137290] 10 p1465 N84-19572
Study of the effects of metallurgical factors on the growth of fatigue microcracks
[AD-A137954] 11 p1669 N84-20688
Specifics of processes of deformation and microfracture of amorphous iron-based alloys 12 p1788 N84-21662
Edge crack growth of thermally aged graphite/polyimide composites
[NASA-TM-85763] 12 p1789 N84-21667
Fracture mechanics of sublaminate cracks in composite laminates
[AD-A139357] 14 p2120 N84-23706
Fatigue damage and crack growth in random short-fiber reinforced composites 15 p2308 N84-24847
Random fatigue of steels: Sequence effects during the crack initiation phase
[BMFT-FB-T-84-040] 16 p2466 N84-25804
Deformation and fracture studies of polymers in the scanning electron microscope 17 p2626 N84-26602
Creep damage mechanics and micromechanisms
[NPL-DMA(A)-77] 19 p3034 N84-29243
Applications of the scanning electron microscope to concrete failure (Axial, biaxial, and dynamic)
[AD-A141788] 19 p3036 N84-29256
Fatigue behavior of long and short cracks in wrought and powder aluminum alloys
[AD-A142609] 20 p3153 N84-30024
Sulfur and antimony segregation to creep cavity surfaces in Ni and an FCC Fe-Ni-Cr alloy
[DE84-011458] 20 p3154 N84-30028
On stress analysis of a crack-layer 23 p3759 N84-33824
Mechanics of microcrack toughening in ceramics 23 p3760 N84-33831
Modern methods of studying initial stage of fatigue fracture in metals 24 p3871 N84-34531

MICROCRYSTALS
Studies of metastable microcrystalline and glassy alloys
[AD-A139941] 15 p2297 N84-24787
Microcrystalline silicon growth for heterojunction solar cells
[NASA-CR-173751] 16 p2869 N84-26215
Studies of hydrogenated amorphous silicon
[DE84-011888] 21 p3505 N84-32211
Nucleation and growth of N- and P-type microcrystals in low-temperature glow-discharge deposited silicon films
[DE84-013122] 22 p3667 N84-33248

MICROCYSTIS
The ultrastructural organization of the blue-green alga microcystis aeruginosa kuetz. Emend. Elenk in connection with toxicogenesis
[AD-A132540] 05 p0712 N84-14662

MICRODENSITOMETERS
Study on the influence of X-ray focus on the image quality in radiological systems 17 p2764 N84-27555
Astronomical Microdensitometry Conference
[NASA-CP-2317] 18 p2839 N84-28020
Diagnosing a PDS microdensitometer 18 p2839 N84-28021
Performance testing of the high altitude observatory PDS microdensitometer 18 p2839 N84-28022
Photometric and positional accuracy of the PDS Bonn in view of astronomical requirements 18 p2839 N84-28023
Microdensitometer errors: Their effect on photometric data reduction 18 p2839 N84-28024
Positive-feedback photometric drift in the PDS 18 p2840 N84-28025
Characteristics of the MSFC, PDS microdensitometer 18 p2840 N84-28026
Performance of the ESO PDS 18 p2840 N84-28027
Experiences with a PDS 2020 GM 18 p2840 N84-28028
PDS concepts and astronomical applications: An overview 18 p2840 N84-28029
Microdensitometer electronics modification 18 p2840 N84-28030
The current status and future upgrade of the PDS at the Royal Greenwich Observatory 18 p2840 N84-28031
The PDS for space telescope guide star selection system: Status and improvements 18 p2840 N84-28032
Improvements to the Photometric response and positional accuracy of the Yale PDS 2020G microdensitometer 18 p2840 N84-28033
An improved logarithmic amplifier circuit for PDS microdensitometers 18 p2841 N84-28034
The PDS-VAX intelligent plate scanning system of Trieste Astronomical Observatory 18 p2841 N84-28035
The VAX/VMS device driver and user operation program for the Midwestern Astronomical Data Reduction and Analysis Facility PDS microdensitometer 18 p2841 N84-28036
A microprocessor-based control system for the Vienna PDS microdensitometer 18 p2841 N84-28037
Why use a microdensitometer other than a PDS? 18 p2841 N84-28038
Automated microdensitometer for digitizing astronomical plates 18 p2841 N84-28039
The automated photographic measuring facility at Cambridge 18 p2842 N84-28043
A next generation microdensitometer? 18 p2842 N84-28044
Plans for a fast image recording system at ESO 18 p2842 N84-28046
A new measuring machine in Paris 18 p2842 N84-28047
Next generation microdensitometer 18 p2842 N84-28048
Crystal gazing. Part 2: Implications of advanced in digital data storage technology 18 p2842 N84-28049
Computer simulation of the effects of transmission-averaging in microdensitometry 18 p2843 N84-28056

MICROELECTRONICS
NT LARGE SCALE INTEGRATION
Polymeric microelectronics
[AD-A130523] 01 p0049 N84-10317
Development of nondestructive full-test requirements for gold wires on multilayer thick-film hybrid microcircuits
[DE83-014368] 01 p0093 N84-10602
Future directions in large-scale scientific computing
[DE83-013229] 01 p0124 N84-10807
AVT 110 automatic multiple probe tester described 02 p0205 N84-11338
Application guidelines for quality assurance procedures for hybrid microcircuits
[AD-A131395] 02 p0214 N84-11405
Microelectronic bending and pressure sensors
[BMFT-FB-T-83-100] 02 p0225 N84-11478
Arrays of very small voltammetric electrodes based on reticulated vitreous carbon
[AD-A134031] 05 p0674 N84-14428

Semiconductor measurement technology: A FORTRAN program for analysis of data from microelectronic test structures
[PB83-263764] 05 p0677 N84-14454
Calculation of cosmic ray induced single event upsets: Program CRUP (Cosmic Ray Upset Program)
[AD-A133620] 06 p0941 N84-16113
Solid state research work of the Solid State Division at Lincoln Laboratory
[AD-A134594] 07 p1061 N84-17028
Theoretical study of laser-stimulated chemical vapor deposition processes of importance in microelectronics
[AD-A136433] 09 p1321 N84-18831
The Microelectronics Center: A new force in cooperative VLSI signal processing research
09 p1403 N84-19166
Transactions of the Industrial Institute of Electronics (selected articles)
[AD-A137204] 10 p1485 N84-19711
Smart instrumentation development at Los Alamos
[DE84-003821] 10 p1499 N84-19798
Computer control of refrigerating plants
11 p1640 N84-20724
Dry etching of metallization 12 p1840 N84-21997
Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-25670-1] 13 p1965 N84-22684
Fine line electromigration. The effect of crossed thermal gradients
[AD-A138654] 13 p2046 N84-23279
West Europe report: Science and technology
[JPRS-WST-84-013] 14 p2118 N84-23694
East Europe report: Science and technology
[JPRS-ESA-84-012] 14 p2133 N84-23784
West Europe report: Science and technology
[JPRS-WST-84-001] 14 p2135 N84-23799
A practical terrestrial packet radio network
[AD-A139162] 14 p2140 N84-23829
The Department of Defense statement on the science and technology program by Dr. Edith W. Martin, Deputy Under Secretary of Defense for Research and Advanced Technology before the Subcommittee on Research and Development of the Committee on Armed Services of the United States House of Representatives, 98th Congress, second session
[AD-A139402] 14 p2246 N84-24488
Submicron systems architecture
[AD-A139844] 15 p2388 N84-25327
Spiral Kicker for the beam abort system
[DE84-007267] 15 p2406 N84-25442
Solid state research
[AD-A140027] 15 p2413 N84-25488
Generic specification for hybrid microcircuits
[ESA-PSS-01-608-ISSUE-1] 16 p2484 N84-25931
A new and unique conductive element for aircraft transparencies
[AD-P003188] 17 p2590 N84-26601
MM&T-Ceramic metal substrates for hybrid electronics: Handbook
[AD-A140689] 17 p2623 N84-26790
West Europe report: Science and technology
[JPRS-WST-84-018] 17 p2640 N84-26888
Siemens plans 256 K memory chip to catch up with Japan 17 p2640 N84-26892
Siemens strategy includes DM 1 billion for submicrons IC's 17 p2640 N84-26893
Description of FRG basic research in X-ray lithography
17 p2640 N84-26894
Synthesis of resin polymers for chemical agent defense
[AD-A141035] 18 p2818 N84-27892
East Europe Report: Scientific affairs
[JPRS-ESA-84-004] 18 p2827 N84-27946
Microelectronic components development in seventh 5-year plan described 18 p2827 N84-27947
Development of low cost custom hybrid microcircuit technology
[NASA-CR-161977] 18 p2832 N84-27978
Development of a qualification standard for adhesives used in hybrid microcircuits
[NASA-CR-161978] 18 p2832 N84-27979
West Europe report: Science and technology. FRG: Concept paper on microelectronics, communications technology
[JPRS-WST-84-023] 18 p2835 N84-27996
X-ray topographic methods and application to analysis of electronic materials 18 p2940 N84-28645
Theory of laser-induced surface chemistry with applications to microelectronics and heterogeneous catalysis
[AD-A141832] 19 p2969 N84-28936
Characterization of silicon-gate CMOS/SOS integrated circuits processed with ion implantation
[NASA-CR-161986] 19 p3011 N84-29087
Monolithic amplifier
[AD-D011075] 19 p3017 N84-29129
Principles and prospects for micro heat pipes
[DE84-006035] 19 p3020 N84-29149
Metal-semiconductor phase transition and its application
[BLL-DRIC-T-7149-(3823.66)] 19 p3109 N84-29757
PAVE PILLAR: A maturation process for an advanced avionics architecture
[AD-P003568] 21 p3337 N84-31173
Solid state research
[AD-A142991] 21 p3504 N84-32204
Superconductive films in microwave microelectronics (survey) 22 p3569 N84-32604
Monolithic integrated antenna systems
[AD-A143184] 22 p3586 N84-32708
Research in monolithic, signal-processing circuits
[AD-A143204] 22 p3586 N84-32709
East Europe report: Scientific affairs
[JPRS-ESA-84-007] 23 p3728 N84-33628
CEMA cooperation in microelectronics research, production 23 p3728 N84-33629
East Europe report: Science and technology
[JPRS-ESA-84-035] 23 p3813 N84-34178
Optical computing research
[AD-A143994] 23 p3825 N84-34258
Direct writing of microstructures for microelectronics
[AD-A144528] 24 p3898 N84-34687
Parameter measurement methods for interfacing hydraulic systems with microelectronic instruments and controllers
[AD-A144208] 24 p3902 N84-34710
Laser control of chemical reactions
[AD-A144359] 24 p3908 N84-34758
East Europe report: Science and technology
[JPRS-ESA-84-027] 24 p3943 N84-34963
Development of microelectronics described
24 p3943 N84-34966

MICROFILMS
Adaptation and arrangements for transparency microfilming
[INPE-2831-PRE/382] 02 p0222 N84-11454
Computer-Output Microfiche (COM) on the Oak Ridge computer network
[DE84-002422] 06 p0899 N84-15836
Microfiche Image Transmission System (MITS) demonstration field evaluation of microfacsimile
[AD-A134716] 08 p1145 N84-17450
MITS II (Microfiche Image Transmission System) investigations and design alternatives
[AD-A141040] 18 p2945 N84-28673

MICROGRAPHY
U PHOTOMICROGRAPHY

MICROGRAVITY
U REDUCED GRAVITY

MICROHARDNESS
On the mechanical and thermoelectric behavior of composition modulated foils 11 p1666 N84-20870
Niobizing carbon steels
[BLL-M-35502-(5828.4)] 12 p1795 N84-21710
Metastable transition metal alloys produced by rapid quenching: Structure and properties
[AD-A138296] 12 p1796 N84-21729
Chemical vapor deposition of erosion resistant TiB-2 coatings
[DE84-012351] 22 p3556 N84-32518
Hardening alloy surfaces by laser irradiation
24 p3869 N84-34518

MICROINDENTATION
U MICROHARDNESS

MICROMECHANICS
Micromechanics of fracture in elastomers
[AD-A138783] 13 p1964 N84-22758
Simplified composite micromechanics equations for strength, fracture toughness and environmental effects
[NASA-TM-83696] 18 p2809 N84-27832
Principles and prospects for micro heat pipes
[DE84-006035] 19 p3020 N84-29149
Application of finite element substructuring to composite micromechanics
[NASA-TM-83729] 21 p3356 N84-31288

MICROMETEORITES
Cosmonauts evaluate color results from Elektrotopograf experiment 12 p1774 N84-21589
Preliminary study of microtektites first discovered in the central Pacific by China
[NASA-TM-77470] 14 p2250 N84-24514

MICROMETEOROIDS
NT METEOROID DUST CLOUDS
NT ZODIACAL DUST
Flexible radiator thermal vacuum test report
[NASA-CR-171764] 11 p1623 N84-20622
Attempt at dust debris collection with stacked detectors (A0136-2) 15 p2276 N84-24668
The chemistry of micrometeoroids (A0187-1)
15 p2276 N84-24669
Meteoroid damage to spacecraft
15 p2277 N84-24673
A review of micrometeoroid flux measurements and models for low orbital altitudes of the Space Station
[NASA-TM-86466] 23 p3700 N84-33455

MICROMETEOROLOGY
Acoustic propagation in the surface layer under convectively unstable conditions
21 p3489 N84-32111

MICROMETEORS
U MICROMETEOROIDS

MICROMETERS
Development of an interferometric technique for reduction of background radiation at 10 micrometers
[AD-A140081] 15 p2408 N84-25455
Novel technological solutions to treatment of threads in micrometric measuring tools
17 p2641 N84-26900

MICROMINIATURIZATION
NT LARGE SCALE INTEGRATION
Generic specification for hybrid microcircuits
[ESA-PSS-01-608-ISSUE-1] 16 p2484 N84-25931
Development of thermionic integrated circuits for applications in hostile environments
[DE84-011374] 21 p3393 N84-31533

MICROMINIATURIZED ELECTRONIC DEVICES
Low cost microminiature refrigerators for large unit volume applications 06 p0822 N84-15356

MICROORGANISMS
NT ANAEROBES
NT BACTERIA
NT MICROCYSTIS
NT MICROSPORES
NT PROTOZOA
NT SALMONELLA
NT STAPHYLOCOCCUS
NT VIRUSES
The growth of paracoccus halodenitrificans in a defined medium
[NASA-TM-84411] 01 p0111 N84-10724
The role of microorganisms in marine corrosion processes
[AD-A133113] 06 p0885 N84-15757
Rapid identification of micro-organisms
[AD-A132831] 06 p0886 N84-15759
Microbial deterioration of hydrocarbon fuels from oil shale, coal and petroleum. III: Inhibition of fungi by fuels from coal
[AD-A137177] 10 p1489 N84-19596
Mitigation of biofouling using coatings
[DE84-006112] 11 p1693 N84-21041
Degradation of jet fuel hydrocarbons by aquatic microbial communities
[AD-A139791] 15 p2304 N84-24822
Laser Doppler spectroscopy of biological objects
17 p2742 N84-27408
Allomonades: New group of vibrionaceae family microorganisms 17 p2742 N84-27410
Biocidal quaternary ammonium resin
[NASA-CR-171802] 19 p3063 N84-29433
Resistance of microorganisms from mesosphere to periodic freezing-thawing 22 p3630 N84-33001

MICROPARTICLES
A method for the preparation of small particles of pure compounds or of compounds containing small amounts of foreign elements
[FOA-C-20502-A1] 02 p0192 N84-11246
Evaluation of the separability of monodisperse polystyrene latex microspheres in a continuous flow electrophoresis system 06 p0932 N84-16057
Powder fed sheared dispersal particle generator
[NASA-CASE-LAR-12785-1] 07 p1011 N84-16561

MICROPHONES
Investigation of effects of microphone position and orientation on near-ground noise measurements
[NASA-TP-2004] 01 p0139 N84-10913
Multisensor speech input
[AD-A140894] 17 p2654 N84-26974
Measurements of the low wavenumber wall pressure spectral density during transition on a flat plate
[AD-A140753] 17 p2668 N84-27013
Noise path identification using face-to-face and side-by-side microphone arrangements
[NASA-CR-173708] 18 p2928 N84-28569
Two-way unidirectional condenser microphone
[NHK-LABS-NOTE-297] 20 p3177 N84-30175

MICROPHOTOMETERS
U PHOTOMETERS

MICROPOROSITY
A study of ultrafine porosity in hydrated cements using small angle neutron scattering
[AERE-R-10954] 18 p2820 N84-27907
Features of behaviour of gas bubbles in molten oxide films during enamelling
[BLL-M-35672-(5828.4)] 22 p3553 N84-32496
Combined macroscopic and microscopic approach to the fracture of metals
[DE84-014670] 23 p3719 N84-33577

MICROPROCESSORS
NT INTEL 8080 MICROPROCESSOR
A portable, microprocessor controlled, multichannel fluorometer for marine analysis
[AD-A130161] 01 p0083 N84-10542
Memory-mapped CAMAC branch driver
[DE83-016084] 01 p0119 N84-10775
Local networking with intelligent nodes
[DE83-014900] 01 p0127 N84-10832
Enhanced character sizes for the VDM-1 video display board 02 p0168 N84-11101
Analysis of a communication interface using multimicroprocessing
[INPE-2823-PRE/377] 02 p0208 N84-11356
Smarter radiation monitors for safeguards and security
[DE83-015259] 02 p0224 N84-11468
Use of desktop computers for data acquisition
[DE83-014277] 02 p0270 N84-11768
Microprocessor multi-task monitor
[DE83-012590] 02 p0270 N84-11769
Radiation testing of the CMOS 8085 microprocessor family
[DE83-014604] 02 p0271 N84-11771
A summary of research on microprocessor networks
[AD-A131325] 02 p0277 N84-11813
A microprocessor-based range meter for electric vehicles
[DE83-902237] 02 p0304 N84-11993
A generalized computer code for developing dynamic gas turbine engine models (DIGTEM)
[NASA-TM-83508] 03 p0333 N84-12166
Implementing microprocessor technology in aircraft electrical power generating system control 03 p0336 N84-12185
Problem of magnet ramping
[DE83-014054] 03 p0368 N84-12399
Calorimeter operating system implemented on a Z-80 microcomputer in read only memory
[DE83-016647] 03 p0419 N84-12734
The AXIS test box software report
[RSRE-MEMO-3585] 03 p0420 N84-12741
Airborne Intelligent Display (AID) phase 1 software development
[ATC-123] 04 p0484 N84-13181
INTAC: A computer-aided test interface
[INPE-2792-TDL/138] 04 p0524 N84-13446
Wafer-scale integration of systolic arrays
[AD-A132536] 04 p0525 N84-13450
Processor-controlled DAC-20 (digital-to-analog converter)
[AD-A132260] 04 p0526 N84-13460
Communicating between the IBM personal computer and the Wang word-processing system
[DE83-017987] 04 p0578 N84-13809
Automated design of microprocessor-based digital filters
[AD-A132214] 04 p0581 N84-13832
Fast, self-nulling spectroscopic ellipsometer: Instrumentation and application, revision
[DE83-015531] 04 p0605 N84-13994
A programmable voice processor for fighter aircraft applications
[AD-A133780] 05 p0668 N84-14393
The use of microprocessors for the instrumentation of nondestructive tests
[CISE-2072] 06 p0855 N84-15571
Implementation of automatic focusing algorithms for a computer vision system with camera control
[AD-A133492] 06 p0894 N84-15807
A modular twin bus microprocessor system for laboratory automation
[AD-A133372] 06 p0896 N84-15815
Design and microprocessor-based implementation of digital frequency selective filters for application in terrain roughness identification
[AD-A133459] 06 p0897 N84-15826
New technologies in the forefront of industrial developments 07 p0944 N84-16123
An airborne programmable digital to video converter
[AD-A134839] 08 p1104 N84-17181
Study of a pulse width modulated, telemetered, microprocessor based data acquisition system 08 p1114 N84-17247
ATE, ATLAS and the microprocessor — automatic test equipment (ATE); abreviated test language for all systems (ATLAS) 08 p1207 N84-17872
HQ AFSC selection of a microprocessor development system
[AD-A134930] 08 p1210 N84-17891
PASCAL/48 reference manual
[NASA-TM-85752] 08 p1211 N84-17900
Luneburg lens and optical matrix algebra research
[NASA-CR-172276] 08 p1231 N84-18047
A sine-wave grating controller for vision testing
[AD-A135871] 09 p1318 N84-18610
Development of an advanced ocean-bottom sensor system
[AD-A135901] 09 p1345 N84-18788
Intelligent editor/printer enhancements
[NASA-CR-170965] 09 p1364 N84-18909
A versatile parallel image processor system
[AD-A136292] 09 p1365 N84-18910
Integrating multi-objective optimization methodologies in BMD technology
[AD-A136161] 09 p1383 N84-19036
Adaptive control of thermal fluid loops for space applications 10 p1444 N84-19433
Army digital test requirements analytic report
[AD-A137394] 10 p1486 N84-19714
Smart instrumentation development at Los Alamos
[DE84-003821] 10 p1499 N84-19798
Development INTERDATA 8/32 computer system
[NASA-CR-175425] 10 p1556 N84-20197
A user-oriented microprocessor shell command language interpreter
[AD-A136809] 10 p1563 N84-20242
The development of an airborne instrumentation computer system for flight test
[NASA-TM-86036] 11 p1607 N84-20521
MA-2026 environmental monitoring system
[DE84-006222] 11 p1676 N84-20938
Use of microcomputers for inventory management with uncertain demand
[DE84-005179] 11 p1705 N84-21112
Multiplication of processing capacity with a parallel processor array
[DE84-004654] 11 p1711 N84-21156
VLSI research, semi-annual technical R&D (Research and Development)
[AD-A136339] 12 p1812 N84-21613
Detailed design and implementation of a multiprogramming operating system for sixteen-bit microprocessors
[AD-A136078] 12 p1880 N84-22256
Detailed design and implementation of a multiprogramming operating system for sixteen-bit microprocessors
[AD-A136083] 12 p1880 N84-22257
Continued development of a universal network interface device using the Intel 8086 and 8089 16-bit microprocessors
[AD-A136118] 12 p1891 N84-22319
Use of robots in Estonian auto, machine tool industries viewed 14 p2155 N84-23916
Miniaturized Measurement and Testing (MMT) system — microprocessor system
[MBB-UA-767-83-O] 14 p2203 N84-24226
Microprocessor based implementation of attitude and shape control of large space structures 14 p2245 N84-24482
Development and investigation of a high level token passing module for local communication networks — microprocessors
[HMI-B-387] 15 p2322 N84-24941
Smart motor technology 15 p2349 N84-25096
Development and evaluation of a fault-tolerant multiprocessor (FTMP) computer. Volume 4: FTMP executive summary
[NASA-CR-172286] 15 p2395 N84-25366
Modular strapdown guidance unit with embedded microprocessors 16 p2447 N84-25697
DSS 13 microprocessor antenna controller 16 p2479 N84-25897
Advanced motor-controller development
[AD-A140299] 16 p2484 N84-25934
Microcomputer network for Computerized Adaptive Testing (CAT)
[AD-A140256] 16 p2546 N84-26341
Theses and remarks of future development of calculators 16 p2549 N84-26359
Microprocessor parallel processing for digital filters 17 p2634 N84-26854
Use of microprocessor techniques in frequency measuring organs 17 p2638 N84-26876
The economics of data acquisition computers for ST and MST radars 17 p2683 N84-27084
Data and results of a laboratory investigation of microprocessor upset caused by simulated lightning-induced analog transients
[NASA-TM-85821] 17 p2733 N84-27376
The Pringle parallel computer
[AD-A140852] 17 p2750 N84-27452
USSR Report: Electronics and electrical engineering
[JPRS-UEE-84-002] 18 p2822 N84-27915
Microprocessor devices for analog signal processing 18 p2824 N84-27928
EMG 7177 programmable graphic calculator, control system 18 p2827 N84-27948
A microprocessor-based control system for the Vienna PDS microdensitometer 18 p2841 N84-28037
Description of the Gornergrat telescope control system
[IFSI-84-3] 18 p2850 N84-28096
Implementation of the Sun position calculation in the PDC-1 control microprocessor 18 p2875 N84-28257
Utilization of basic language programming with EEPROM technology for data acquisition applications and development
[DE84-010380] 18 p2921 N84-28526
FOA-SUB underwater vehicle system: A brief description of the system and its state, Spring 1984
[FOA-C-20536-E1(E3)] 19 p3003 N84-29030
Development of a microprocessor based audiometer for threshold shift studies
[AD-A142124] 19 p3065 N84-29448
Programming for energy monitoring/display system in multicolor lidar system research
[NASA-CR-165875] 19 p3073 N84-29496
Microprocessor automation for the Dynaflect Deflection Measuring System
[PB84-160413] 20 p3171 N84-30135
Proton-induced single event upsets in the SBP9989 microprocessor
[AD-A142448] 20 p3266 N84-30724
Communicating between the IBM personal computer and the Wang word processing system
[DE84-010423] 20 p3267 N84-30729
Current research in parallel microprocessing systems at Los Alamos
[DE84-011342] 20 p3277 N84-30804
Automated planning for intelligent machines in energy-related applications
[DE84-011666] 20 p3279 N84-30815
The application of a general purpose data base management system to design automation
[AD-A141999] 20 p3314 N84-31048
MIL-STD-1750A microprocessor chip set development
[AD-P003548] 21 p3334 N84-31152
A high performance MIL-STD-1750A microprocessor
[AD-P003549] 21 p3334 N84-31153
A new silicon-on-sapphire MIL-STD-1750A microprocessor
[AD-P003551] 21 p3334 N84-31155
Options and opportunities for standards: A NATO/AGARD viewpoint
[AD-P003577] 21 p3338 N84-31182
Development of a digital air data computer using modern microprocessors, hybrid circuits, and pressure sensors with frequency output
[BMFT-FB-W-84-018] 21 p3343 N84-31208
Microprocessor enhanced real time manual control of an industrial robot
[DE84-011805] 21 p3413 N84-31645
Digital control loading: A microprocessor-based approach
[AD-P003483] 21 p3512 N84-32250
Microprocessors in aircrew training devices
[AD-P003485] 21 p3513 N84-32252
Computer system for fiber creep testing
[DE84-014453] 22 p3612 N84-32885
Test procedures and design methods for reliable large scale integrated circuits and systems
[AD-A143324] 22 p3638 N84-33061
MECA: A supercomputer for Monte Carlo
[DE84-014129] 22 p3638 N84-33066
Higher layer protocols for a workstation architecture
[DE84-013849] 22 p3641 N84-33087
The microcode for the control processor of the ARO (array oriented processor) array processor
[AD-A143765] 23 p3813 N84-34175
Flexible disk data storage unit
[INPE-2982-RPE/451] 23 p3814 N84-34181
The development of an airborne instrumentation computer system for flight test 24 p3851 N84-34421
Control methodologies for large space structures
[NASA-CR-173987] 24 p3861 N84-34467
Autonomous microprocessor controllers for scientific research automation systems 24 p3941 N84-34946
Microprocessors for analog signal processing 24 p3941 N84-34947
High-performance specialized processors for calculation of elementary and special functions 24 p3941 N84-34950
Software debugging devices for microprocessors 24 p3941 N84-34952
Image input/output controller-interface based on 16-bit microprocessor 24 p3942 N84-34954
East Europe report: Science and technology
[JPRS-ESA-84-027] 24 p3943 N84-34963
Trends in microprocessor technology outlined 24 p3943 N84-34964
New computer developments described 24 p3943 N84-34965

MICROPROGRAMMING
The debugging of real time multiprocessor systems: An integrated solution proposal
[CISE-2067] 06 p0899 N84-15837
The vocoder project
[AD-A135820] 09 p1302 N84-18512
Abstract type oriented dynamic vertical migration
[AD-A136840] 09 p1367 N84-18926
Compression and Decompression of Imaging Sensor Signals (CADISS): An image (de)compression system for deep space application
[NLR-MP-83028-U] 15 p2390 N84-25339
Programmable arithmetic logic unit
[AD-D011128] 22 p3837 N84-33055
Simple microprogrammed controllers: An alternate approach
[INPE-3069-PRE/486] 23 p3812 N84-34171
MICROPULSATIONS
An analysis of pC-3 micropulsion in the geomagnetic field
[AD-A132443] 04 p0563 N84-13709
MICROROCKET ENGINES
NT ORBIT MANEUVERING ENGINE (SPACE SHUTTLE)
Contribution to the performance of microjets
[NASA-TM-77730] 24 p3900 N84-34694
MICROSCOPES
NT ACOUSTIC MICROSCOPES
NT ELECTRON MICROSCOPES
NT ION MICROSCOPES
NT OPTICAL MICROSCOPES
Mechanical engineering research program
[DE84-001085] 12 p1823 N84-21864
MICROSCOPY
NT ELECTRON MICROSCOPY
Project objectives and progress at the Research Laboratory of Electronics
[RLE-125] 06 p0926 N84-16016
Metallurgical and mechanical tests of materials
[AD-A136347] 09 p1327 N84-18666
X-ray imaging of biological specimens
[DE84-006287] 12 p1819 N84-21855
Modes of deformation and failure of Kevlar 49 fibers and composites
[DE84-004162] 13 p1954 N84-22706
Characterization of the microstructures of various materials
[AD-A141946] 20 p3152 N84-30017
Application of quantitative microscopy to ceramics
[NASA-TM-77420] 24 p3888 N84-34618
MICROSONICS
Alternating acoustoelectric current generated by interaction of two waves in acoustic microwaveguide
21 p3380 N84-31449
MICROSPORES
Studies of proteinograms in dermatophytes by disc electrophoresis. 1. Protein bands in relation to growth phase
[NASA-TM-77095] 07 p1042 N84-16755
MICROSTRIP TRANSMISSION LINES
Microstrip antennas for SAR applications
07 p0997 N84-16396
Cylindrical microstrip array: C-band beacon antenna array with 48 rectangular radiating elements fed in-phase
[AD-A135144] 08 p1144 N84-17442
Investigation of new concepts for designing millimetre-wave antennas
[AD-A137350] 10 p1479 N84-19663
Analysis of rectangular microstrip antennas
[NASA-TP-2276] 11 p1642 N84-20735
The characteristics of iris-fed millimeterwave rectangular microstrip patch antennas
[PB84-134634] 11 p1648 N84-20775
Microstrip analysis techniques
[AD-A137972] 12 p1811 N84-21804
A microstrip time delay circuit on barium tetratitanate
[AD-A138026] 12 p1811 N84-21807
Characterization of microstrip fixtures, a broadband model for a microstrip connector
[FOA-C-30336-E] 12 p1814 N84-21824
Reactively steered adaptive array (Resea)
13 p1976 N84-22826
The study of microstrip antenna arrays and related problems
[NASA-CR-173534] 14 p2136 N84-23607
Analysis of transmission lines on semiconductor substrate
[AD-A140711] 17 p2663 N84-26987
Monolithic microwave integrated circuits: Interconnections and packaging considerations
[NASA-TM-83774] 21 p3382 N84-31461
On the quasi-periodic microstrip snake antenna with metal trough backing
[AD-P003510] 21 p3384 N84-31478
Amplification of traveling magnetostatic waves by parametric pumping
21 p3479 N84-32050
Superconductive films in microwave microelectronics (survey)
22 p3589 N84-32604
Monolithic integrated antenna systems
[AD-A143184] 22 p3586 N84-32706
Electromagnetic wave theory and remote sensing
22 p3683 N84-33350
Evaluation of microstrip radiators as feeds for reflector antenna — satellite antenna
[ERA-83-0056] 23 p3732 N84-33655
Analysis of microstrip line tolerance using the Monte-Carlo method
[INPE-2814-PRE/370] 23 p3740 N84-33705
Microwave bandstop filters as dielectric resonators
[INPE-3055-PRE/475] 23 p3740 N84-33706
Monolithic microwave integrated circuit devices for active array antennas
[NASA-CR-173981] 24 p3897 N84-34675
MICROSTRUCTURE
NT METEORITIC MICROSTRUCTURES
Optimum microstructures for SPF (superplastic forming) using hydrovac
[AD-A130944] 01 p0044 N84-10280
Metallurgical investigation of a cracked low-pressure stem-turbine shaft from an electric utility
[DE83-902304] 01 p0045 N84-10292
Investigation of microstructural changes in ferritic stainless steels caused by high-temperature deformation
[DE83-015331] 01 p0046 N84-10298
Corrosion evaluation of aluminum 5083
[DE83-015786] 01 p0047 N84-10301
Research on microstructurally developed toughening mechanisms in ceramics
[AD-A130394] 01 p0049 N84-10316
Microstructural effects on wave propagation in solids
[DE83-012609] 01 p0096 N84-10628
Microstructure and properties of TiB2 implanted with 1-MeV nickel
[DE83-014020] 01 p0154 N84-11012
High-resolution electron-microscopy studies of native oxide on silicon
[DE83-014794] 01 p0155 N84-11018
Metallurgical characterization of the fracture of several high strength aluminum alloys
[NASA-TP-1086] 02 p0189 N84-11230
Microstructure and properties of P/M tool steels
[AD-A130980] 02 p0194 N84-11259
Hydrogen embrittlement of a 12 Cr-1 Mo steel
[DE83-016781] 02 p0195 N84-11270
Prediction of microstructural modification in dynamically consolidated metal powders
[DE83-015690] 02 p0196 N84-11278
Fatigue behavior of long and short cracks in wrought and powder aluminum alloys
[AD-A131324] 02 p0231 N84-11517
Numerical modeling of dynamic material response
[DE83-016233] 02 p0232 N84-11524
Characterization of borosilicate glass containing Savannah River Plant radioactive waste. 2: Microstructure and durability
[DE83-011246] 02 p0292 N84-11916
Research activities in materials and molecular research
[DE83-015005] 03 p0347 N84-12255
Anisotropy and microstructure of Sm2(Co, Fe, Cu, Zr)17 magnetic materials
[AD-A131961] 03 p0352 N84-12291
Evaluation of several high-strength copper sheet alloys
[DE83-015612] 03 p0353 N84-12298
Microstructural origins of hot spots in RDX explosive and several reference inert materials
[AD-A132056] 03 p0357 N84-12325
Hermetically sealed microminiature multisocket connector
[DE83-017484] 03 p0384 N84-12503
Mechanical response of fluid-filled porcelastic solids
03 p0387 N84-12525
Effects of microstructure and pore fluids on the acoustic properties of granular materials
[AD-A131983] 03 p0408 N84-12668
Physics of ion implantation: Ion-cascade processes and physical state of the implanted solid
[DE83-017152] 03 p0455 N84-12998
Effect of implanted helium on the microstructure and creep properties of ordered (FeO.49 NiO.51) V-3 alloys
[DE84-000691] 04 p0500 N84-13278
Irradiation response in titanium-modified austenitic stainless steels prepared by rapid-solidification processing. Part 2: Dual-ion irradiations
[DE84-001297] 04 p0500 N84-13282
Irradiation response in titanium-modified austenitic stainless steels prepared by rapid-solidification processing. Part 1: Microstructural response to neutron irradiation
[DE84-001298] 04 p0501 N84-13283
Microstructure of 9 Cr-1 MoVNb steel irradiated to 40 dpa at elevated temperatures in HFIR
[DE84-000339] 04 p0501 N84-13285
Dislocation/obstacle interactions during low-dose irradiation creep of nickel
[DE84-001416] 04 p0504 N84-13303
Pulsed-ion-irradiated microstructures in molybdenum
[DE84-000679] 04 p0504 N84-13304
Segregation and domain structure in rapidly solidified Ni3Al
[DE83-017188] 04 p0504 N84-13306
Structural performance of ceramics in a high-fluence fusion environment
[DE84-001311] 04 p0508 N84-13329
Effects of cobalt in nickel-base superalloys
[NASA-CR-168308] 05 p0652 N84-14287
Grain structure identification by ultrasound frequency averaging and deconvolution
[AD-A134054] 05 p0653 N84-14294
The effect of microstructure on the properties of high strength aluminum alloys
[AD-A133997] 05 p0653 N84-14296
Deformation and fatigue of aircraft structural alloys
[AD-A133947] 05 p0654 N84-14297
Organized microscale structure of the windstorm of 12 May 1983 in Utrecht and vicinity
[KNMI-TR-36] 05 p0709 N84-14647
The ultrastructural organization of the blue-green alga microcystis aeruginosa kuetz. Emend. Elenk in connection with toxicogeneesis
[AD-A132540] 05 p0712 N84-14662
Modelling particle - particle interaction at the micro scale
[AD-A133969] 05 p0744 N84-14885
Microscopic study of semiconductor heterojunctions
05 p0757 N84-14962
Calculation of structure factor for different cluster models of an amorphous alloy
[BLL-M-35293-(5828.4)] 06 p0803 N84-15234
Diffusion films produced by heat treatment of electroplated coatings
[BLL-OA-TRANS-3082-(6196.3)]
06 p0804 N84-15237
Effects of pulsed dual-ion irradiation on phase transformations and microstructure in Ti-modified austenitic alloy
[DE84-001965] 06 p0807 N84-15257
Pit initiation resistance of ferritic stainless steels in chloride environments from 800 to 2600C
[DE84-000355] 06 p0807 N84-15258
A thermodynamically consistent constitutive model for inelastic flow of materials 06 p0857 N84-15581
Fabrication and properties of multilayer structures
[NASA-CR-174506] 06 p0922 N84-15997
Superconducting properties of Nb3Sn multifilamentary wires fabricated by internal tin process
[DE83-018189] 06 p0925 N84-16011
Structure, preparation and properties of refractory compounds and systems (hard materials and hard metals)
[NASA-TM-77076] 07 p0974 N84-16309
Grain refining and microstructural modification during solidification
[AD-A134605] 07 p0974 N84-16314
Microstructures of stainless steels exhibiting reduced friction and wear after implantation with Ti and C
[DE84-002252] 07 p0975 N84-16318
Effects of alloy composition and processing on the microstructure of D-9 type stainless steel
[DE84-003022] 07 p0975 N84-16321
Reactor pressure vessel steels ASME SA 533B and SA508.C1.2: Microstructural investigations — heat treatment effects
[VTT-RR-219] 07 p0977 N84-16333
Characteristic morphological and frictional changes in sputtered MoS/sub 2 films
[NASA-TM-83565] 07 p0985 N84-16380
Workshop on the Physics and Modeling of Submicron Structures
[AD-A134528] 07 p1081 N84-17026
Microstructure and phase composition of sputter-deposited zirconia-yttria films
[DE84-003352] 07 p1082 N84-17039
Disclinations in carbon-carbon composites
[AD-A135248] 08 p1122 N84-17295
International Conference on Recent Developments in Specialty Steels and Hard Materials
08 p1130 N84-17348
Influence of composition on the microstructure and mechanical properties of a nickel-base superalloy single crystal
[NASA-TM-83563] 08 p1131 N84-17354
Improved swelling resistance for PCA austenitic stainless steel under HFIR irradiation through microstructural control
[DE84-003203] 08 p1133 N84-17370

Effects of pulsed and/or dual ion irradiation on microstructural evolution in a Ti and Si modified Austenitic alloy
[DE84-003411] 08 p1134 N84-17374

Tie molecules in polyethylene
[PB84-101435] 08 p1139 N84-17405

Muon spin rotation in solids
[NASA-CR-172789] 08 p1234 N84-18067

Effects of variations in heat treatment on the mechanical properties and microstructure of ASTM A710 Grade A Class 3 steel
[AD-A136328] 09 p1282 N84-18371

Synthesis and properties of elevated temperature P/M aluminum alloys
[AD-A135956] 09 p1283 N84-18379

Application of solidification theory to rapid solidification processing
[AD-A135962] 09 p1283 N84-18380

Effect of transformed beta morphology and other structural features on mechanical properties in Ti-6Al-4V
[AD-A136026] 09 p1283 N84-18382

Precipitation in rapidly solidified Al-Mn alloys
[AD-A136126] 09 p1284 N84-18385

Reliability studies of ceramic capacitors
[AD-A136378] 09 p1287 N84-18403

Metallurgical aspects and mechanical properties of weld metal in automatic submerged arc welding
[BLL-RISLEY-TR-4875-(9091.9F)] 09 p1324 N84-18650

Effects of preheat on weldments of NICOP steel
[AD-A137145] 10 p1458 N84-19524

Effects of yttrium microalloying on the epitaxial grain growth in Ti-6Al-4V weld fusion zones
[AD-A137272] 10 p1459 N84-19526

Characterizations of preheated and non-preheated HY-80 steel weldments by transmission electron microscopy
[AD-A136966] 10 p1480 N84-19537

Modeling material failure with a vectorized routine 10 p1561 N84-20226

Dynamics of microstructures — plasma dynamics 10 p1583 N84-20376

Role of microstucture in hydrogen assisted cracking 11 p1631 N84-20667

Physical metallurgy and alloy design of dual phase steels
[DE84-005182] 11 p1634 N84-20682

Biaxial tension tests of HERF 304L stainless steel
[DE84-006205] 11 p1634 N84-20685

Austenitizing and microstructure of a HT-9 steel
[DE84-004914] 11 p1635 N84-20687

TEM studies on the deformation structure of Cu-10Ni-6Sn spinodal alloy
[DE84-004426] 11 p1635 N84-20690

Fatigue resistance and microstructure of experimental dual phase Fe/2Si/0.1C steel
[DE84-004314] 11 p1635 N84-20692

Frictional and morphological properties of Au-MoS2 films sputtered from a compact target
[NASA-TM-83604] 11 p1664 N84-20858

Study of the effects of metallurgical factors on the growth of fatigue microcracks
[AD-A137954] 11 p1669 N84-20688

Microstructure-property relationship for porous CaO stabilized ZrO2 support tubes 11 p1739 N84-21347

Microstructure and microanalysis in relation to the grain boundary conductivity effect in doped ceria 11 p1741 N84-21358

Microstructure and electrical properties of ceria-based ceramic electrolytes 11 p1741 N84-21361

Influence of microplastic deformations on spheroidization of cementite in steel
[BLL-M-35503-(5828.4)] 12 p1795 N84-21711

Analysis of microstructure and strengthening mechanisms in laser surface alloyed Fe-Cr and Fe-C-Cr alloy systems
[AD-A137971] 12 p1797 N84-21722

A study of the magnetic and metallurgical properties of Sm(Co,Fe,Cu, Zr) sub z alloys near z = 8.5
[AD-A138253] 12 p1798 N84-21728

Lubrication of engineering surfaces, phase 2
[DE84-006344] 12 p1822 N84-21878

Topographic EXAFS
[AD-A137116] 12 p1915 N84-22475

Review of the effects of microstructure on fatigue in aluminum alloys
[NASA-TM-83626] 13 p1960 N84-22735

The fatigue of powder metallurgy alloys
[AD-A138714] 13 p1960 N84-22738

Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] 13 p2019 N84-23095

Properties of simulated comet mantle 13 p2076 N84-23452

Metastable phases of rapidly solidified Al-rich, Al-Fe alloys
[AD-A139598] 14 p2128 N84-23757

Microstructures associated with wear 14 p2153 N84-23901

Ion-induced surface modification of alloys
[DE84-006664] 14 p2243 N84-24468

The two-slab burning problem
[AD-A139618] 15 p2287 N84-24719

Effect of cooling rate on corrosion properties and microstructure of high strength aluminum alloys
[NLR-TR-82105-U] 15 p2297 N84-24783

The impact resistance of SiC and other mechanical properties of SiC and Si3N4
[NASA-CR-165325] 15 p2301 N84-24809

Micro-elastohydrodynamic lubrication 15 p2341 N84-25053

Development of molten carbonate fuel cell technology
[DE84-004856] 15 p2364 N84-25183

Hydrogen attack mechanisms in a 2-1/4 Cr1 Mo welded steel 16 p2464 N84-25789

Annual report on grant AFOSR-80-0228
[AD-A140512] 16 p2550 N84-26365

Microstructure and orientation effects on properties of discontinuous silicon carbide/aluminum composites
[NASA-TP-2302] 17 p2617 N84-26749

Corrosion behavior of ion plated films 17 p2621 N84-26777

Processing and properties of airframe materials
[AD-A140832] 17 p2624 N84-26797

Influence of microstructure, stress-state and environment on superplastic flow and fracture in glass-ceramics 17 p2677 N84-27050

Mesospheric scatter and its microstructure 17 p2684 N84-27090

The role of traps in the microstructural control of hydrogen embrittlement of steels
[AD-A141249] 18 p2814 N84-27883

Metallographic examinations of type 304 stainless steel (heat 9T2796) tested in high-temperature uniaxial and multiaxial experiments
[DE84-010637] 18 p2814 N84-27886

A study of ultrafine porosity in hydrated cements using small angle neutron scattering
[AERE-R-10954] 18 p2820 N84-27907

Development of protective coatings obtained by low pressure plasma spraying 18 p2934 N84-28607

The effect of solidification rate on morphological stability 18 p2936 N84-28620

The effect of growth rate on interface morphology 18 p2936 N84-28624

Rapidly solidified alloys made by chill block melt-spinning processes 18 p2937 N84-28625

Effects of long-time elevated temperature exposures on hot-isostatically-pressed power-metallurgy Udimet 700 alloys with reduced cobalt contents
[NASA-TM-83632] 19 p2985 N84-28917

Transformation plasticity in high-strength materials
[DE84-006655] 19 p2986 N84-28922

The use of novel processing procedures for improving the overall fatigue resistance of high strength aluminum alloys
[AD-A141107] 19 p2993 N84-28966

A fundamental study of P/M processed elevated temperature aluminum alloys
[AD-A141780] 19 p2994 N84-28974

Effect of refractory elements on the coherency strain and flow stress on nickel-base superalloys
[AD-A142220] 19 p2994 N84-28975

Mechanisms of microstructurally-influenced fatigue crack growth in dual-phase steels
[DE84-006491] 19 p2995 N84-28979

Microstructural evaluation of a ferritic stainless steel by small angle neutron scattering
[DE84-009487] 19 p2995 N84-28980

Structure and mechanical properties in the Al2O3-MgO system 19 p2996 N84-28984

Fragmentation under impulsive stress loading
[DE84-006341] 19 p3037 N84-29263

Thin film synthesis of superconducting chemical compounds
[AD-A142541] 20 p3148 N84-29992

Analysis of localized microstructural changes in dynamically consolidated metal powders
[DE84-006298] 20 p3154 N84-30026

The influence of nitrogen on the sensitization, corrosion, mechanical and microstructural properties of stainless steels
[DE83-017203] 20 p3157 N84-30050

Evolution of cavity microstructure in ion-irradiated 316 SS and Fe-20Ni-15Cr alloy
[DE84-012111] 20 p3158 N84-30053

The effects of solid solution temperatures and cooling rates on the microstructures of BT3-1 titanium alloy 20 p3160 N84-30066

Characteristics of initial period fatigue crack propagation of metals and its affecting factors 20 p3160 N84-30071

Low temperature sintering of Al2O-CaO
[DE84-010713] 20 p3163 N84-30083

High resolution electron microscopy studies of the early stages of decomposition in alloys and ceramics
[DE84-020802] 20 p3163 N84-30087

Characterization of submerged-arc and gas-metal-arc weldments in hY-100 steel
[AD-A141939] 20 p3196 N84-30298

Electron-microscopic microstructural examination of glassy Ge-Se semiconductors 20 p3287 N84-30871

Property screening and evaluation of ceramic turbine materials
[AD-A142739] 21 p3343 N84-31210

The mechanical properties of carbon fibre with glass fibre hybrid reinforced plastics 21 p3357 N84-31292

Comparative studies of vapor and liquid-phase impregnation of porous silicon nitride and silicon carbide materials
[DE84-012867] 21 p3359 N84-31309

The effects of deformation mode and microstructure fracture-related properties of Ti alloys
[AD-A142691] 21 p3366 N84-31353

Microstructural studies of hydrogen and deuterium in BCC refractory metals
[DE84-011506] 21 p3367 N84-31357

Rapid solidification and undercooling of aluminum germanium alloys: Characterization and control of microstructure
[DE84-012395] 21 p3367 N84-31361

Analytical characterization of coatings and thin overlayers
[DE84-011902] 21 p3371 N84-31389

Creep-fatigue interactions in advanced eutectic superalloys
[AD-A142872] 21 p3422 N84-31705

Microtopography of micro-diamonds from sedimentary covers in the southwestern part of the Eastern European platform and a possible genetic interpretation
[CSIR-TRANS-1726] 21 p3443 N84-31842

Microstructural stability of copper electroplate
[DE84-010070] 21 p3498 N84-32174

Creep transitions in aluminum solid-solution alloys 22 p3550 N84-32472

Slavutich high-cobalt WC-Co-matrix alloy
[CSIR-TRANS-1739] 22 p3552 N84-32490

Distribution of micro-heterogeneous deformation in O8Yu steel around inclusions during compression
[BLL-M-35641-(5828.4)] 22 p3553 N84-32498

Microstructure and surface chemistry of amorphous alloys important to their friction and wear behavior
[NASA-TM-83762] 22 p3555 N84-32508

Microstructural development and control in liquid phase sintering; processing, structures and properties of cold worked metal matrix composites
[AD-A143168] 22 p3555 N84-32509

Method to reveal microstructures in single phase alloys
[AD-D011094] 22 p3555 N84-32512

Microstructure, mechanical properties and two-body abrasive wear resistance of an Fe-3Cr-C based ultra-high strength steel
[DE84-014605] 22 p3556 N84-32520

RF sputtered silicon and hafnium nitrides as applied to 440C steel
[NASA-TM-86662] 22 p3559 N84-32536

Microstructural analysis for series 300 stainless steel sheet welds and tensile samples
[DE84-006513] 22 p3605 N84-32837

The role of the reflection coefficient in precision measurement of ultrasonic attenuation
[NASA-TM-83788] 22 p3606 N84-32849

Nucleation and growth of N- and P-type microcrystals in low-temperature glow-discharge deposited silicon films
[DE84-013122] 22 p3667 N84-33246

The effect of recycling on cast structures and the internal character of IN100 alloy: A laboratory study 23 p3705 N84-33485

Plasticity of large-grain titanium alloy type VT30 in the beta area 23 p3708 N84-33508

Low-cycle fatigue of VT1-0 alloy and changes in its fine structure at temperatures of 293-4.2 deg K 23 p3708 N84-33509

Effect of thermocyclic processing on phase composition and structure of VT22 alloy 23 p3709 N84-33511

Fracture surface characteristics of notched angleplied graphite/epoxy composites
[NASA-TM-83786] 23 p3711 N84-33522

Evaluation of the effects of stress state and interfacial properties on the behavior of advanced metal matrix composites
[AD-A143911] 23 p3711 N84-33525

Solidification of highly undercooled liquid droplets
[AD-A143892] 23 p3714 N84-33543
Method for refining microstructures of prealloyed powder metallurgy titanium articles
[AD-D011162] 23 p3718 N84-33570
Method for refining microstructures of blended elemental powder metallurgy titanium articles
[AD-D011177] 23 p3718 N84-33571
Combined macroscopic and microscopic approach to the fracture of metals
[DE84-014670] 23 p3719 N84-33577
Fracture toughness of irradiated HT-9
[DE84-013935] 23 p3719 N84-33578
Development of metallization process
[NASA-CR-173943] 23 p3789 N84-34031
Optimization of initial microstructures of OT4-1 alloy elements joined by diffusion welding
24 p3875 N84-34558
Changes in solidified microstructures
24 p3882 N84-34565
Effect of dose rate on the microstructure of CW 316 SS
[DE84-760403] 24 p3885 N84-34614
Direct writing of microstructures for microelectronics
[AD-A144528] 24 p3888 N84-34687
Impurity cluster states in disordered 2-dimensional systems: A self-consistent Hartree-Fock-Roothaan model
[INPE-3223-PRE/574] 24 p3966 N84-35115
Nonlinear temporal modulation of pulsar radioemission
[INPE-3272-PRE/597] 24 p3995 N84-35282

MICROTOMY
Cryomicrotome applications: Techniques for the study of skeletal materials
[AD-A137010] 10 p1545 N84-20130

MICROWAVE AMPLIFIERS
NT CYCLOTRON RESONANCE DEVICES
Superconducting magnets for gyrotron tubes
[DE83-012815] 02 p0299 N84-11962
Microwave generators: Oscillating virtual cathodes and reflexing electrons
[DE84-001346] 04 p0522 N84-13433
Computer-aided synthesis and design of monolithic microwave GaAs MESFET amplifiers
[AD-A132474] 04 p0525 N84-13452
Beam impingement angle effects on secondary electron emission characteristics of textured pyrolytic graphite
[NASA-TP-2285] 09 p1286 N84-18400
Klystron manufacturing technology program
[AD-A135782] 09 p1309 N84-18555
Wideband monolithic microwave amplifier study
[AD-A136424] 09 p1318 N84-18606
Infrared monitoring of gyrotron windows
[DE84-004442] 10 p1499 N84-19799
An electrodynamic interpretation of virtual-cathode oscillations
[DE84-008001] 14 p2142 N84-23846
Development program for a 200kW, CW gyrotron
[DE84-007945] 14 p2149 N84-23874
Improved computer modelling of magnetron injection guns for gyrotrons
[DE84-007536] 15 p2330 N84-24992
Two-stage regenerative microwave amplifiers with reduced nonlinear distortions 17 p2638 N84-26878
Demonstration of SQUID (Superconducting QUantum Interference Device) parametric amplifier
[AD-A141326] 18 p2834 N84-27992
Secondary electron emission characteristics of ion-textured copper and high-purity isotropic graphite surfaces
[NASA-TP-2342] 19 p2997 N84-28969
Large-signal amplifier based on ferrimagnetic echo
21 p3378 N84-31440

MICROWAVE ANTENNAS
NT HORN ANTENNAS
NT LENS ANTENNAS
NT SLOT ANTENNAS
A FORTRAN computer program to compute the radiation pattern of an array-fed paraboloid reflector
[AD-A131060] 02 p0209 N84-11363
Performance analysis of a three-dimensional microwave lens in a cylindrical array scanning application
[AD-A131891] 03 p0360 N84-12345
The small transmitter receiver stations in the Sirio experiment — microwave transmission
[FUB-50-1982] 06 p0626 N84-15386
Adaptive microwave reflector
08 p1112 N84-17235
Microwave reflector characterization using simple instruments in EVA 08 p1112 N84-17236
Studies in fin-line antenna design for phased array applications
[AD-A135255] 08 p1144 N84-17444
DSN microwave antenna holography
10 p1474 N84-19524
Focal region characteristics of focused microwave array antennas
[AD-A136557] 13 p1982 N84-22867
Proceedings of the Antenna Applications Symp., volume 2
[AD-A142754] 21 p3383 N84-31467
Broadband microstrip matching techniques
[AD-P003506] 21 p3384 N84-31474
Wideband microstrip ring radiator
[AD-P003507] 21 p3384 N84-31475
Feed error effects on lens performance
[AD-P003513] 21 p3385 N84-31481
Optimization of antenna structure design
22 p3572 N84-32624
Intermodulation product levels in flame-sprayed materials 22 p3573 N84-32629
Electromagnetic wave theory and remote sensing
22 p3683 N84-33350
Feed displacement correction in a space fed lens antenna
[AD-D011155] 23 p3742 N84-33722

MICROWAVE ATTENUATION
Statistic prediction techniques of rain attenuation starting from pluviometric statistics — microwave attenuation
[FUB-51-1982] 06 p0626 N84-15387
Climatological coefficients for rain attenuation at millimeter wavelengths
[PB84-104272] 08 p1148 N84-17475
Attenuation data bank in the project COST 205: Generation, control, and preliminary analysis — rain attenuation, microwaves
[FUB-2-1983] 10 p1483 N84-19693
The use of dual-polarization radar data to predict attenuation from precipitation on Earth-space paths
[ESA-CR(P)-1845] 12 p1809 N84-21798
Measuring and modeling of the dielectric properties and attenuation of vegetation 12 p1832 N84-21940
Measuring and modeling of the dielectric properties and attenuation of vegetation 12 p1834 N84-21953
Study of the 13 GHz signal attenuation due to tropical rains
[CRPE-NT-113] 13 p1984 N84-22879
Analysis of propagation conditions at 20 and 30 GHz in Europe
[CRPE-NT-122] 13 p1984 N84-22880
Evaluation of the attenuation length of a scintillator by means of a computer simulation of the light collection efficiency in long scintillation counters
[NOTA-INTERNA-820] 20 p3176 N84-30169
The evaluation of prediction models for microwave attenuation by rainfall
[PB84-182104] 20 p3176 N84-30170
Microwave terrestrial link rain attenuation prediction parameter analysis
[PB84-207964] 22 p3578 N84-32666
Determination of microwave attenuation due to the influence of atmospheric gases using the radiometric technique
[INPE-2850-PRE/391] 23 p3730 N84-33637
Modeling the polarization dependence of the attenuation in vegetation canopies — microwave attenuation
23 p3767 N84-33876
On the relationships between radar backscattering coefficient and vegetation canopy characteristics
23 p3766 N84-33882
Differential emission measurement for atmospheric absorption by a ground-based microwave radiometer
23 p3774 N84-33928

MICROWAVE CIRCUITS
Dielectric resonators for use in microwave and millimeter-wave GaAs circuits
[AD-A132881] 05 p0675 N84-14440
Organometallic epitaxy for GaAs/AlGaAs microwave transistors and integrated circuits
[AD-A133569] 06 p0923 N84-16001
Microwave, semiconductor research - materials, devices and circuits
[AD-A140052] 15 p2413 N84-25489
Rivista Tecnica Selenia, volume 8, number 1
17 p2652 N84-26961
Application of sputtering technology to microwave integrated circuit fabrication 17 p2653 N84-26965
Integration of monolithic microwave integrated circuits into phased array antenna systems
[AD-P003403] 19 p3014 N84-29107
MMIC technology for advanced space communications systems
[NASA-TM-83749] 20 p3173 N84-30147
Analysis of microstrip line tolerance using the Monte-Carlo method
[INPE-2814-PRE/370] 23 p3740 N84-33705
Project active and passive microwave devices with auxiliary computer
[INPE-3152-TDL/169] 23 p3814 N84-34185
Monolithic microwave integrated circuit devices for active array antennas
[NASA-CR-173981] 24 p3897 N84-34675
Microwave discharge apparatus and method with dual function priming resonator
[AD-D011202] 24 p3899 N84-34689

MICROWAVE COUPLING
NT COUPLING CIRCUITS
ICRF waveguide couplers — tokamak devices
[DE84-004042] 09 p1392 N84-19092
Coupling of electromagnetic pulses created by a nuclear explosion on the ground with overhead power cables
[SNIAS-841-422-107] 21 p3388 N84-31505

MICROWAVE EMISSION
Antartic sea ice, 1973 - 1976: Satellite passive-microwave observations
[NASA-SP-459] 01 p0110 N84-10718
Microwave remote sensing of snow experiment description and preliminary results
[E84-10009] 02 p0236 N84-11547
Passive microwave sensing of soil moisture content: Soil bulk density and surface roughness
[E84-10019] 02 p0237 N84-11556
Report of the first Nimbus-7 SMMR Experiment Team Workshop
[NASA-TM-85093] 02 p0257 N84-11684
Analysis of regolith electromagnetic scattering as constrained by high resolution Earth-based measurements of the lunar microwave emission
[NASA-CR-174577] 05 p0764 N84-15012
Investigation of a microwave discharge in argon/helium mixtures
[LP-202] 07 p0995 N84-16451
The simplest solar microbursts flux and circular polarization at 22 GHz
[INPE-2970-PRE/436] 07 p1092 N84-17104
Microwave emission from relativistic electron beams
[AD-A137752] 11 p1730 N84-21285
A microwave systems approach to measuring root zone soil moisture
[E84-10114] 13 p2005 N84-23007
O-atoms yields from microwave discharges in N2O/Ar mixtures
[AD-A130429] 14 p2137 N84-23808
Spectral power density extrema for microwave emission from a relativistic reflex triode
[AD-A139771] 15 p2329 N84-24984
Microwave discharges in capillary tubes
[LP-203] 16 p2558 N84-26410
Crop moisture estimation over the southern Great Plains with dual polarization 1.66 centimeter passive microwave data from Nimbus 7
[E84-10163] 17 p2710 N84-27255
Microwave and X-ray observations of delayed brightenings at sites remote from the primary flare locations
[NASA-TM-86140] 22 p3680 N84-33326
The effect of row direction on the microwave emission from vegetation canopies 23 p3767 N84-33877
Estimation of albedo and optical thickness with the radiative transfer method — microwave remote sensing
23 p3778 N84-33952
Preliminary investigations concerning a 90 GHz radiometer satellite experiment
23 p3781 N84-33978

MICROWAVE EQUIPMENT
NT BACKWARD WAVE TUBES
NT COLD CATHODE TUBES
NT HORN ANTENNAS
NT IMAGE TUBES
NT KLYSTRONS
NT LENS ANTENNAS
NT MAGNETRONS
NT MICROWAVE AMPLIFIERS
NT MICROWAVE ANTENNAS
NT MICROWAVE FILTERS
NT MICROWAVE INTERFEROMETERS
NT MICROWAVE OSCILLATORS
NT MICROWAVE PLASMA PROBES
NT MICROWAVE PROBES
NT MICROWAVE RADIOMETERS
NT MICROWAVE TUBES
NT PHOTOMULTIPLIER TUBES
NT PHOTOTUBES
NT SLOT ANTENNAS
NT THERMICONS
NT THYRATRONS
NT TRAVELING WAVE TUBES
NT VIDICONS
Design, construction and long life endurance testing of cathode assemblies for use in microwave high-power transmitting tubes
[NASA-CR-168112] 01 p0069 N84-10451
Evaluation of gallium nitride for active microwave devices
[AD-A132988] 05 p0754 N84-14947

European Scientific Notes, volume 37, number 8
[AD-A133938] 05 p0759 N84-14977
Microwave methods and apparatus for paving and paving maintenance
[DE84-016306] 06 p0822 N84-15359
The US space station: Potential base for a spaceborne microwave facility 07 p0991 N84-16420
Heterojunction solid-state devices for millimeter-wave sources
[AD-A135389] 08 p1151 N84-17490
Automated acceptance test procedures for wideband microwave synthesized signal generator testing
[AD-A134923] 08 p1162 N84-17563
Ka-band Ga-As FET noise receiver/device development
[NASA-CR-175176] 10 p1484 N84-19705
Low noise microwave frequency synthesizers
[INPE-2796-PRE/358] 11 p1642 N84-20733
Microwave semiconductor equipment produced in Poland
[AD-A137596] 11 p1646 N84-20762
Progress in research in electronics engineering: Technical review
[DE84-006389] 11 p1647 N84-20772
Microwave-enhanced ignition in diesel engines
[AD-A138148] 12 p1791 N84-21682
Microwave sintering of ceramics
[AD-A138402] 12 p1801 N84-21744
Measurement of solid propellant burning rates employing microwave techniques 13 p1944 N84-22640
Fundamental mode rectangular waveguide system for Electron-Cyclotron Resonant Heating (ECRH) for tandem mirror experiment-upgrade (TMX-U)
[DE84-009085] 15 p2322 N84-24940
Considerations pertinent to propagation prediction methods applied to airborne microwave equipment 15 p2326 N84-24970
Digital microwave system design guide
[AD-A139736] 15 p2329 N84-24982
Investigation of asynchronous detector with self-pumping based on Gunn diode 17 p2633 N84-26847
High-resistance measuring standards of electrical resistance 18 p2826 N84-27939
Amplitude-frequency method of measuring phase of reflection coefficient 18 p2826 N84-27942
A collective interaction klystron
[AD-A141275] 18 p2834 N84-27991
Microwave radiometric measurement of sea surface salinity
[AD-A141302] 18 p2893 N84-28359
Microwave frequency divider
[AD-D011065] 19 p3017 N84-29124
Description of a microwave system for the measurement of close to carrier AM and FM noise spectra
[LEOK-TR-1984-04] 20 p3176 N84-30168
The 8th European Specialist Workshop on Active Microwave Semiconductor Devices 4-6 may 1983
[AD-A142252] 20 p3177 N84-30180
Earth Observing System. Science and mission requirements, volume 1, part 1
[NASA-TM-86129-VOL-1-PT-1] 20 p3219 N84-30450
A superconducting microwave parametric converter transducer sensitive to 10 to the minus nineteenth power m harmonic motion 21 p3489 N84-32112
USSR report: Electronics and electrical engineering
[JPRS-UEE-84-006] 22 p3565 N84-32580
Josephson point contacts noise properties at microwave 22 p3569 N84-32602
Utilization of nonlinear properties of IMPATT-diodes in microwave devices (survey) 22 p3569 N84-32603
Superconductive films in microwave microelectronics (survey) 22 p3569 N84-32604
Machined two-piece microwave waveguide
[AD-D011068] 22 p3587 N84-32715
Compact broadband rectangular to coaxial waveguide junction
[AD-D011091] 22 p3587 N84-32716
High power microwave generator
[DE84-014230] 22 p3590 N84-32738
The EBT-S 28-GHz, 200-kW, CW, mixed-mode, quasi-optical plasma heating system
[DE84-014415] 23 p3829 N84-34287

MICROWAVE FILTERS
An active filter primer
[AD-A134838] 08 p1152 N84-17498
Design and analysis of a generalized class of fin-line filters
[AD-A136050] 09 p1309 N84-18558
ISEE-3 microwave filter requirements 10 p1475 N84-19632
Microwave bandstop filters as dielectric resonators
[INPE-3055-PRE/475] 23 p3740 N84-33706

MICROWAVE FREQUENCIES
NT C BAND
NT EXTREMELY HIGH FREQUENCIES
NT SUPERHIGH FREQUENCIES
Application of noise waves and scattering/scattering-transfer matrices for noise analysis of microwave mixers
[REPT-S-137] 09 p1305 N84-18529
Low noise microwave frequency synthesizers
[INPE-2796-PRE/358] 11 p1642 N84-20733
Measuring and modeling of the dielectric properties and attenuation of vegetation 12 p1834 N84-21953
Lumped element and leaky-wave antennas for millimeter waves
[AD-A139512] 14 p2140 N84-23833
Investigation of asynchronous detector with self-pumping based on Gunn diode 17 p2633 N84-26847
Satellite Emission Range Inferred Earth Survey (SERIES) project
[NASA-CR-173728] 18 p2791 N84-27714
Summary of work on cooled ion frequency standard, fiscal year 1984
[AD-A142189] 19 p3007 N84-29061
Theoretical analysis of microwave propagation
[AD-A143762] 23 p3731 N84-33847
Microwave discharge apparatus and method with dual function priming resonator
[AD-D011202] 24 p3899 N84-34689

MICROWAVE HOLOGRAPHY
High resolution 3-d tomographic imaging by wavelength and polarization diversity
[AD-A134101] 05 p0747 N84-14903
Recording and reproduction of microwave holograms using a scanning procedure and their subsequent optical processing
[NASA-TM-77349] 06 p0846 N84-15519
DSN microwave antenna holography 10 p1474 N84-19624
Discrete random media techniques for microwave modeling of vegetated terrain 12 p1834 N84-21952

MICROWAVE IMAGERY
Aircraft remote sensing of soil moisture and hydrologic parameters, Taylor Creek, Florida, and Little River, Georgia, 1979 data report
[E84-10010] 02 p0236 N84-11548
Estimating oceanic rainfall using microwave and GOES infrared satellite data
[PB83-253013] 05 p0709 N84-14648
A comprehensive description of the mission sensor microwave imager (SSM/I) environmental parameter extraction algorithm
[AD-A134052] 05 p0759 N84-14976
Snow thickness and brightness temperature on multi-year ice
[AD-A133940] 06 p0884 N84-15747
High angular resolution microwave sensing with large, sparse, random arrays
[AD-A138717] 13 p1983 N84-22874
Crop moisture estimation over the southern Great Plains with dual polarization 1.66 centimeter passive microwave data from Nimbus 7
[E84-10163] 17 p2710 N84-27255
Ocean wind field measurement performance of the ERS-1 scatterometer 17 p2713 N84-27273
Theory and measure of certain image norms in SAR 17 p2713 N84-27274
Synthetic aperture radar images of ocean waves, theories of imaging physics and experimental tests 17 p2714 N84-27275
SAR imagery of ocean-wave swell traveling in an arbitrary direction 17 p2714 N84-27278
Ocean waves and turbulence as observed with an adaptive coherent multifrequency radar 17 p2714 N84-27279
An improved dual-frequency technique for the remote sensing of ocean currents and wave spectra 17 p2714 N84-27281
Measurements of ocean wave spectra and modulation transfer function with the airborne two frequency scatterometer 17 p2715 N84-27282
The active microwave instrument for ERS-1 23 p3783 N84-33990

MICROWAVE INTERFEROMETERS
The Owens Valley frequency-agile interferometer
[AD-A131825] 03 p0377 N84-12453
Microwave interferometer using 94-GHz solid-state sources
[DE84-003741] 09 p1392 N84-19090
An improved microwave interferometer technique for plasma density measurements
[TRITA-EPP-83-08] 18 p2935 N84-28611

MICROWAVE LANDING SYSTEMS
Development and flight test of an X-band precision approach concept for remote-area rotorcraft operations
[NASA-TM-84396] 01 p0007 N84-10041
FINDS: A fault inferring nonlinear detection system. User's guide
[NASA-CR-172199] 02 p0176 N84-11156
Establishment and discontinuance criteria for precision landing systems
[AD-A135606] 09 p1254 N84-18185
Flight test results for the Digital Integrated Automatic Landing Systems (DIALS): A modern control full-state feedback design 11 p1618 N84-20589
NASA-FAA helicopter Microwave Landing System curved path flight test
[NASA-TM-85933] 14 p2103 N84-23617
MLS/Airplane system design. RF component design
[NASA-CR-172339] 15 p2259 N84-24567
Investigation of the technology of the microwave landing system Time Reference Scanning Beam (TRSB)
[BMFT-FB-W-84-008] 19 p2962 N84-28774
The microwave landing system (MLS)
[NLR-MP-83070-U] 23 p3892 N84-33390

MICROWAVE OSCILLATORS
NT BACKWARD WAVE TUBES
The 60-GHz gyrotron development program
[DE83-012922] 02 p0214 N84-11402
Optimum design of millimeter-wave impatt diode oscillators
[AD-A135335] 08 p1151 N84-17489
Deterministic and random phase noise of oscillation — synthetic aperture radar
[DFVLR-MITT-83-11] 10 p1483 N84-19695
Design of locked microwave oscillators on basis of scattering parameters of transistors operating in large signal mode 22 p3570 N84-32608
Modulation of microwave power with electron transfer diodes 22 p3570 N84-32610
A microwave oscillator controlled by pressure and stabilized by a 1250 MHz cavity resonator — single channel per carrier transmission
[INPE-3173-PRE/543] 23 p3741 N84-33712

MICROWAVE PLASMA PROBES
Interaction of electromagnetic fields with plasma
[AD-A135173] 08 p1232 N84-18054

MICROWAVE PROBES
NT MICROWAVE PLASMA PROBES
Non-destructive testing of non-metallic materials using microwaves
[DRIC-T-6974] 03 p0385 N84-12508

MICROWAVE RADIATION
U MICROWAVES

MICROWAVE RADIOMETERS
On the assessment of errors due to antenna pattern imperfections: Executive summary — satellite-borne imaging microwave radiometer
[TUD-R-253] 02 p0210 N84-11376
Assessment of potential SSM/I (Special Sensor Microwave/Imager) ice products in light ESMR (Electrically Scanning Microwave Radiometer) and SMMR (Scanning Microwave Spectrometer) ice classification algorithms
[AD-A130961] 02 p0239 N84-11570
Passive radiometry and other remote sensing data interpretation for oil slick thickness assessment, in an experimental case 03 p0399 N84-12609
Observations and classifications with a 35/94 GHz radiometer of terrain near Motala, Sweden, July 1982
[FOA-C-30325-E1,E3] 03 p0402 N84-12630
A comprehensive description of the mission sensor microwave imager (SSM/I) environmental parameter extraction algorithm
[AD-A134052] 05 p0759 N84-14976
Support for the Naval Research Laboratory Environmental Passive Microwave Remote Sensing Program
[AD-A133330] 06 p0847 N84-15526
Effect of nonideal square-law detection on static calibration in noise-injection radiometers
[NASA-TM-85684] 07 p0997 N84-16462
Technology needs of advanced Earth observation spacecraft
[NASA-CR-3698] 08 p1114 N84-17248
Remote sensing experiments on Spacelab and STS 08 p1175 N84-17655
Dual channel water vapor radiometer system
[PB84-119445] 08 p1189 N84-17746
Inversion algorithms for water vapor radiometers operating at 20.7 and 31.4 GHz 10 p1473 N84-19623
L band push broom microwave radiometer: Soil moisture verification and time series experiment Delmarva Peninsula
[E84-10084] 10 p1520 N84-19955
Basic investigation on the feasibility of multispectral radiation information from microwave radiometry measurements for Earth-scientific objectives of remote sensing
[DFVLR-FB-83-27] 10 p1526 N84-20000

Sea surface temperatures from the Nimbus-7 scanning multichannel microwave radiometer
12 p1835 N84-21963
A statistical method to sense sea surface temperature from the Nimbus-7 scanning multichannel microwave radiometer
12 p1835 N84-21964
Microwave radiometer experiment of soil moisture sensing at BARC test site during summer 1981
[NASA-TM-86056] 14 p2166 N84-23969
Applications of airborne remote sensing in atmospheric sciences research 17 p2715 N84-27286
Observing atmospheric water in storms with the Nimbus 7 scanning multichannel microwave radiometer
17 p2716 N84-27291
Near field effects in radiometer measurements
[FOA-C-30357-E1] 18 p2830 N84-27969
Thermoelectric temperature control system for the pushbroom microwave radiometer (PBMR)
[NASA-TM-85824] 18 p2836 N84-28000
The correction of aberrations computed in the aperture plane of multifrequency microwave radiometer antennas
[NASA-TM-86090] 22 p3581 N84-32679
Determination of sea surface temperature with N-ROSS (Navy-Remote Ocean Sensing System)
[AD-A143563] 22 p3627 N84-32984
Crop identification by means of spectral profiles — hand held radiometers 23 p3768 N84-33888
Millimeter wave radiometric images of the marginal ice zone 23 p3772 N84-33912
Mapping the Fram Strait ice edge using AVHRR imagery and NOAA satellite orbital data
23 p3773 N84-33915
Observation of variations in the composition of sea ice in the Greenland MIZ during early summer 1983 with the Nimbus-7 SMMR — Marginal Ice Zone (MIZ); Scanning Multichannel Microwave radiometer (SMMR)
23 p3773 N84-33916
Seasonal ice variation in the Barents Sea obtained from the Nimbus 7 Scanning Multichannel Microwave Radiometer (SMMR) observations
23 p3773 N84-33919
The distribution of ice concentration, multiyear and first year fraction in the Arctic Ocean derived from the Nimbus 7 Scanning Multichannel Microwave Radiometer (SMMR) observations 23 p3773 N84-33920
Evaluation of wind estimates over open ocean from the Nimbus 7 scanning multichannel microwave radiometer
23 p3773 N84-33921
Precipitation monitoring over land from satellites by microwave radiometry 23 p3774 N84-33924
Ground-based remote sensing of temperature and water vapor by passive microwave radiometers
23 p3774 N84-33925
Remote sensing of rain by an airborne dual-frequency microwave scatterometer/radiometer
23 p3774 N84-33927
Differential emission measurement for atmospheric absorption by a ground-based microwave radiometer
23 p3774 N84-33928
Retrieval of vertical moisture profiles with microwave radiometry 23 p3775 N84-33929
Microwave radiometry for oil pollution monitoring, measurement and systems 23 p3781 N84-33975
Preliminary investigations concerning a 90 GHz radiometer satellite experiment
23 p3781 N84-33978
System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] 24 p3855 N84-34443
Studies of midaltitude cyclone structure with SEASAT scanning multichannel microwave radiometer
24 p3930 N84-34877

MICROWAVE RESONANCE

The preparation of low-loss optical fiber with microwave plasma activated chemical vapor deposition process
[AD-A134280] 07 p1076 N84-16994
Automatic measurement of bandwidth of microwave resonators 17 p2638 N84-26880
Measurements of ocean wave spectra and modulation transfer function with the airborne two frequency scatterometer 17 p2715 N84-27282

MICROWAVE SCATTERING

Microwave remote sensing of snow experiment description and preliminary results
[E84-10009] 02 p0236 N84-11547
A study of the dependence of radar backscatter cross section on wind speed and wave slope from the MARSEN experimental results (a contribution to studies of radar backscattering from the sea surface). Supplement to final report
[AD-A135041] 08 p1144 N84-17441
Fundamental remote sensing science research program. Part 1: Scene radiation and atmospheric effects characterization project
[NASA-TM-86078] 12 p1830 N84-21929
Scattering models in the microwave regime
12 p1831 N84-21937
Effects of vegetation canopy structure on microwave scattering 12 p1832 N84-21942
Scattering models in the microwave regime
12 p1834 N84-21950
Remote sensing of Earth terrain
12 p1834 N84-21951
Discrete random media techniques for microwave modeling of vegetated terrain 12 p1834 N84-21952
Ocean wind field measurement performance of the ERS-1 scatterometer 17 p2713 N84-27273
SAR imagery of ocean-wave swell traveling in an arbitrary direction 17 p2714 N84-27278
The nature of microwave backscattering from water waves
[AD-A141877] 19 p3006 N84-29056
Theoretical analysis of microwave propagation
[AD-A143762] 23 p3731 N84-33647
Correlation of microwave sensor returns with soil moisture 23 p3770 N84-33897

MICROWAVE SENSORS

Study of the combined use of data from satellite thermal infrared and microwave sensors for soil moisture detection
[PB83-252734] 05 p0698 N84-14582
Investigation of design considerations for a complex demodulation filter
[NASA-CR-173295] 08 p1107 N84-17195
Snow and ice monitoring by microwave techniques
08 p1176 N84-17660
Microwave remote sensing experiment for first Spacelab mission
[BMFT-FB-W-83-022] 10 p1527 N84-20001
Discrete random media techniques for microwave modeling of vegetated terrain 12 p1832 N84-21939
Investigation of asynchronous detector with self-pumping based on Gunn diode
17 p2633 N84-26847
ESA activities in the use of microwaves for the remote sensing of the Earth 17 p2712 N84-27264
High resolution observations of low contrast phenomena from an Advanced Geosynchronous Platform (AGP)
17 p2712 N84-27266
New algorithms for microwave measurements of ocean winds 17 p2713 N84-27272
The applicability of improved remote sensing data for lithological and structural mapping
23 p3770 N84-33899
Remote sensing of the marginal ice zone during Marginal Ice Zone Experiment (MIZEX) 83
23 p3772 N84-33910

MICROWAVE SOUNDING

Satellite observations of a monsoon depression
[NASA-CR-173590] 16 p2528 N84-26232
Dielectric measurements of soils in the 3 to 37 GHz band between -50C and 23C 23 p3768 N84-33883
The dielectric behavior of snow in the 3 to 37 GHz range 23 p3768 N84-33884
Remote sensing of the marginal ice zone during Marginal Ice Zone Experiment (MIZEX) 83
23 p3772 N84-33910
Passive microwave remote sensing of the atmosphere from satellites 23 p3774 N84-33923

MICROWAVE SPECTRA

Microwave studies of hot intracluster gas
02 p0306 N84-12011
Development of visible/infrared/microwave agriculture classification and biomass estimation algorithms, volume 2 — Oklahoma and Texas
[E84-10059] 06 p0864 N84-15629
Submillimeter, millimetre, and microwave spectral line catalogue
[NASA-CR-173899] 22 p3546 N84-32448

MICROWAVE SPECTROMETERS

A broadband high power millimeter to centimeter spectrometer
[AD-A131629] 02 p0294 N84-11927
Airborne Visible/Infrared Imaging Spectrometer (AVIRIS): An advanced tool for Earth remote sensing
23 p3781 N84-33976

MICROWAVE SWITCHING

Design of microwave beam-switching networks
[AD-A137240] 10 p1478 N84-19661
Studies of 3-5 compound semiconductors for optical and microwave applications
[AD-A137849] 11 p1744 N84-21381
P-I-N Diode Switches Project
[INPE-3171-PRE/541] 21 p3391 N84-31516
The 20 x 20 high speed microwave switches
[NASA-TM-83775] 22 p3575 N84-32644

MICROWAVE TRANSMISSION

Description of the preliminary measurements carried out on the 11 GHz experimental facility at Roma-Monte S. Pancrazio
[FUB-39-1982] 05 p0671 N84-14411
Digital microwave transmission tests at the Pacific Missile Test Center, Pt. Mugu, California
[PB83-251454] 05 p0671 N84-14412
The small transmitter receiver stations in the Sirio experiment — microwave transmission
[FUB-50-1982] 06 p0826 N84-15386
Rapid fading of the signal level on 2 GHz microwave communication link between CDAS and MSC
09 p1347 N84-18801
Low noise microwave frequency synthesizers
[INPE-2796-PRE/358] 11 p1642 N84-20733
Discrete random media techniques for microwave modeling of vegetated terrain 12 p1834 N84-21952
MLS/Airplane system design. RF component design
[NASA-CR-172339] 15 p2259 N84-24567
Millimeter wave transmission systems and related devices
[NASA-CR-173515] 15 p2319 N84-24918
A system to measure LOS atmospheric transmittance at 19 GHz 15 p2324 N84-24951
A GaAs refractometer for tropospheric studies
15 p2324 N84-24952
Prediction of multipath fading on terrestrial microwave links at frequencies of 11 GHz and greater
15 p2324 N84-24953
Multipath outage performance of digital radio receivers using finite-tap adaptive equalizers
15 p2324 N84-24955
Spherical propagation models for multipath-propagation predictions 15 p2324 N84-24956
Digital microwave system design guide
[AD-A139738] 15 p2329 N84-24982
A microwave time transmission system
[ESA-TT-782] 16 p2482 N84-25916
Investigation of asynchronous detector with self-pumping based on Gunn diode
17 p2633 N84-26847
An experimental investigation of the improvement in the reception of TM (Transverse Magnetic)-polarized LF (Low-Frequency) waves with a two-element spaced array
[AD-A142478] 20 p3175 N84-30159
Alternating acoustoelectric current generated by interaction of two waves in acoustic microwaveguide
21 p3380 N84-31449
Intermodulation distortions in semiconductor microwave receivers and transmitters (survey)
22 p3569 N84-32605
A high-performance hybrid RF isolation amplifier
22 p3572 N84-32623
Optimization of antenna structure design
22 p3572 N84-32624
High power K sub a -band transmitter for planetary radar and spacecraft uplink 22 p3572 N84-32625
Computer-based transmission monitor and control system
[PB84-202068] 22 p3639 N84-33069

MICROWAVE TUBES

NT BACKWARD WAVE TUBES
NT COLD CATHODE TUBES
NT IMAGE TUBES
NT KLYSTRONS
NT MAGNETRONS
NT MICROWAVE OSCILLATORS
NT PHOTOMULTIPLIER TUBES
NT PHOTOTUBES
NT THERMICONS
NT THYRATRONS
NT TRAVELING WAVE TUBES

Microwave tubes: Literature survey number 4, comprising the year 1982
[FOA-C-30331-E] 06 p0831 N84-15407
Analysis of the output mode from 60 GHz, 200 kW pulsed and CW gyrotrons
[DE84-004586] 10 p1497 N84-19785
First 200 kW CW operation of a GHz gyrotron
[DE84-004573] 10 p1498 N84-19794
Chemical and physical processes on nonemissive grids — grid controlled amplifier tubes
[EVT-825] 12 p1794 N84-21700

MICROWAVES

NT CENTIMETER WAVES
NT DECIMETER WAVES
NT MICROWAVE EMISSION
NT MILLIMETER WAVES

Microwave interaction with thin multiple conductive coatings
[AD-A131091] 01 p0067 N84-10435
Microwave radiometric sensitivity to soil moisture under vegetation cover 01 p0098 N84-10640
Microwave backscattering from short gravity waves. A deterministic, coherent and dual-polarized laboratory study
[AD-A131217] 01 p0111 N84-10719

Microwaves, hyperthermia, and human leukocyte function
[PB83-225375] 01 p0115 N84-10746
Polarization studies in electron cyclotron heating experiments on the Versator 2 Tokamak
[AD-A130808] 01 p0149 N84-10978
Microwave measurements of azimuthal asymmetries in accelerating fields of disk-loaded waveguides
[DE83-012705] 02 p0210 N84-11373
Finite-element approach to guided wave problems
[AD-A131623] 02 p0213 N84-11396
The polarization and anisotropy on large angular scales of the microwave background radiation in homogeneous cosmologies 02 p0306 N84-12007
Influence of the magnetic field in the temporal evolution of solar flare X-ray and microwave radiation
[INPE-2842-TDL/140] 02 p0308 N84-12020
Effects of pulsed microwaves at 1.28 and 5.62 GHz on Rhesus monkeys (Macaca mulatta) performing an exercise task at three levels of work
[AD-A132057] 03 p0413 N84-12704
A restraint chair with rowing-like movement for exposing exercising nonhuman primates to microwave irradiation
[AD-A132047] 03 p0413 N84-12705
Effect of pulsed 5.62 GHz microwaves on squirrel monkeys (Saimiri sciureus) performing a repeated acquisition task
[AD-A132045] 03 p0413 N84-12706
Theoretical aspects of thrust-launch microwave heating in EBT-S
[DE83-015762] 03 p0438 N84-12875
Detailed modeling of microwave energy deposition in EBT devices
[DE83-017496] 03 p0449 N84-12952
Microwave monolithic integrated circuit development for future spaceborne phased array antennas
[NASA-TM-83518] 04 p0517 N84-13399
A proposed RF-technology R/D plan for the United States
[DE84-000643] 04 p0522 N84-13434
Air-breakdown limits for microwave-pulse propagation. Part 1. Experiments
[DE83-017832] 04 p0523 N84-13438
Pulsed-power diode generation of high-power microwaves
[DE84-001344] 04 p0523 N84-13440
External wave-launcher study
[DE84-001124] 04 p0523 N84-13441
Microwave nondestructive evaluation of composites
[DE84-001777] 04 p0547 N84-13601
Microwave dynamics of quasiparticles and critical fields in superconducting films 05 p0758 N84-14981
Design considerations for remotely piloted, high-altitude airplanes powered by microwave energy
[NASA-TM-85730] 06 p0786 N84-15145
The nature of microwave backscattering from water waves 06 p0870 N84-15665
Effects of long-term low-level radiofrequency radiation exposure on rats. Volume 1: Design, facilities, and procedures
[AD-A134079] 06 p0885 N84-15756
A comparison of SMMR (Scanning Multichannel Microwave Radiometer) and airborne microwave measurements during GOASEX (Gulf of Alaska experiment)
[AD-A134514] 07 p1008 N84-16534
The effects of vegetation and soil hydraulic properties on passive microwave sensing of soil moisture: Data report for the 1982 field experiments
[NASA-TM-85106] 07 p1023 N84-16633
Change in immunobiological reactivity under the effect of combined exposure to microwaves, infrasound and gamma radiation 07 p1043 N84-16764
New trends in standardization of electromagnetic microwave radiation 07 p1044 N84-16767
Use of microwaves to improve nutritional value of soybeans for future space inhabitants
[NASA-CR-175336] 07 p1051 N84-16805
S-band SBAW microwave source, phase 2
[NASA-CR-175153] 08 p1142 N84-17432
A study of microwave and millimeter-wave quasi-optical planar mixers
[AD-A135252] 08 p1144 N84-17443
A program for computer-controlled impedance measurement within the microwave range — antennas
[FOA-C-30330-E3] 08 p1148 N84-17460
Microwave dielectric constant dependence on soil tension
[AD-A134651] 08 p1178 N84-17673
Metallic microwave conductivity in shock-loaded rutile
[DE84-002174] 08 p1235 N84-18075
Laboratory degradation of Kapton in a low energy oxygen ion beam
[NASA-TM-83530] 09 p1272 N84-18310
Data documentation for the bare soil experiment at the University of Arkansas, June - August 1980
[NASA-CR-173325] 09 p1336 N84-18725
Inversion algorithms for the microwave remote sensing of soil moisture. Experiments with swept frequency microwaves
[NASA-CR-173323] 09 p1336 N84-18726
Dynamically accelerated superthermal electrons in microwave plasma interaction
[IPPJ-648] 10 p1580 N84-20354
Oscillation phenomena in the solar atmosphere and modulation by microwave radiation
[INPE-2743-TDL/134] 10 p1596 N84-20483
Method for thermal monitoring subcutaneous tissue
[NASA-CASE-LAR-13028-1] 11 p1694 N84-21053
Microwave sintering of ceramics
[AD-A138402] 12 p1801 N84-21744
Study of a satellite communication system for wideband communications: Executive summary
[ESA-CR(P)-1839] 12 p1809 N84-21795
Microwave excitation of a CO2 laser
[AD-A138057] 12 p1820 N84-21862
Microwave curing of composites 13 p1955 N84-22708
Doppler radar having phase modulation of both transmitted and reflected return signals
[NASA-CASE-MSC-18675-1] 13 p1975 N84-22820
High angular resolution microwave sensing with large, sparse, random arrays
[AD-A138717] 13 p1983 N84-22874
Power transfer for microwave discharges
[AD-A138868] 13 p2044 N84-23267
A Cerenkov-Raman maser
[AD-A139275] 14 p2150 N84-23883
Critical slowing-down in microwave absorptive bistability 14 p2237 N84-24429
Energetic electrons in impulsive solar flares
[NASA-TM-86102] 14 p2251 N84-24519
Measurement of the intensity of the cosmic background radiation at 3.0 cm
[DE84-008246] 14 p2252 N84-24525
Transhorizon microwave propagation measurements related to surface meteorological parameters 15 p2325 N84-24964
Tropospheric propagation assessment 15 p2326 N84-24965
Timing analysis of hard X-ray emission and 22 GHz flux and polarization in a solar burst
[INPE-3103-PRE/502] 16 p2581 N84-26551
Hard X-ray and microwave morphology
[NASA-CR-173568] 16 p2582 N84-26559
Cross section for absorption of partly shielded dielectric sphere 17 p2635 N84-26858
Microwave reflection measurements of the dielectric properties of concrete
[PB84-173624] 17 p2654 N84-26976
Microwave remote sensing of ocean surface wind speed and rain rates over tropical storms 17 p2716 N84-27288
Thermoregulation: Long-term microwave effects
[AD-A140644] 17 p2745 N84-27432
Impact ionization in semiconductors by microwave field in the presence of an arbitrarily oriented constant magnetic field 18 p2825 N84-27932
The assessment of nonionizing radiation hazards
[AD-P003294] 18 p2908 N84-28444
Microwave and theoretical studies for Cosmic Background Explorer satellite
[NASA-CR-175248] 18 p2954 N84-28721
Fundamental design issues for monolithic phased arrays
[AD-P003402] 19 p3014 N84-29106
Rebuttal to floating a satellite on microwaves
[AD-P003413] 19 p3016 N84-29117
A study of distributed millimeter-wave isolators
[AD-A142729] 20 p3179 N84-30189
Ceramic-glass-metal seal by microwave heating
[DE84-011263] 20 p3196 N84-30295
Rat behavior in selection of negative stimulus: Pain or exposure to electromagnetic field 20 p3255 N84-30657
Time-dependent spinal cord changes following nonionizing microwave irradiation 20 p3258 N84-30678
Influence of microwave electromagnetic radiation and certain hormones on osmotic resistance of mouse erythrocytes 20 p3259 N84-30682
Theoretical studies of Elmo Bumpy Torus (EBT)
[DE84-010814] 20 p3303 N84-30978
USSR report: Electronics and electrical engineering
[JPRS-UEE-84-006] 21 p3376 N84-31427
Dynamic characteristic of intense short microwave propagation in an atmosphere
[DE84-002788] 21 p3367 N84-31496
USAFSAM (USAF School of Aerospace Medicine) review and analysis of radiofrequency radiation bioeffects literature
[AD-A142961] 21 p3453 N84-31912
Effects of microwaves on cell membrane permeability
[AD-A142979] 21 p3453 N84-31913
Parametric excitation of transverse acoustic slot waves in solids by means of microwave electric field 21 p3478 N84-32045
Microwave and far infrared spectroscopy of transient molecules
[AD-A142962] 21 p3493 N84-32134
Measurement of LINAC bunch parameters using the Cerenkov effect
[AD-A143128] 21 p3493 N84-32136
USSR report: Electronics and electrical engineering
[JPRS-UEE-84-006] 22 p3565 N84-32580
Correlational estimation of parameters of solid state microwave devices 22 p3570 N84-32609
Intermodulation in protective semiconductor microwave devices 22 p3571 N84-32612
Mojave base station implementation 22 p3575 N84-32643
Focusing twist reflector for electron-cyclotron resonance heating in the Tandem Mirror Experiment-upgrade
[DE84-012954] 22 p3578 N84-32663
Microwave and quantum magnetics 22 p3683 N84-33348
An extended real-time microwave airplane position system 24 p3850 N84-34419
Microwave discharge apparatus and method with dual function priming resonator
[AD-D011202] 24 p3899 N84-34589

MICROWEIGHING
U WEIGHT MEASUREMENT

MICTURITION
U URINATION

MIDAIR COLLISIONS
NT BIRD-AIRCRAFT COLLISIONS
Aircraft accident report: Midair collision of North American Rockwell Aero Commander model 560E, N3827C and Cessna 182Q, N96402, Livingston, New Jersey, November 20, 1982
[PB83-910403] 01 p0006 N84-10036
Investigation of air transportation technology at MIT 02 p0168 N84-11104
System safety study of minimum TCAS II (Traffic Alert and Collision Avoidance System)
[AD-A138674] 13 p1929 N84-22548
Aircraft accident report. Midair collision: McDonnell-Douglas F-4C Beech D-55 Baron, Cherry Point, North Carolina, 9 January 1983
[PB84-910407] 22 p3533 N84-32368

MIDCOURSE GUIDANCE
Linearised optimal control and application to a gliding projectile
[AD-A135605] 09 p1271 N84-18305
Multisensor calibration procedure for an all weather short range air defense system concept
[AD-A141337] 18 p2791 N84-27715

MIDDLE ATMOSPHERE
NT MESOPAUSE
NT MESOSPHERE
NT STRATOSPHERE
Variability of atmospheric density in the middle atmosphere
[AD-A131985] 03 p0407 N84-12667
Space research in Switzerland 08 p1107 N84-17200
Effects of mesoscale weather distrubances on contamination concentrations
[DE84-005753] 13 p2010 N84-23036
Electron energy deposition in the middle atmosphere
[AD-A139122] 14 p2175 N84-24032
Middle Atmosphere Program. Handbook for MAP, volume 9
[NASA-CR-173439] 17 p2682 N84-27076
Jet stream related observations by MST radars 17 p2682 N84-27078
MST radar detection of middle atmosphere tides 17 p2682 N84-27079
Equatorial MST radars: Further consideration 17 p2683 N84-27083
Techniques for studying gravity waves and turbulence 17 p2688 N84-27115
Techniques for studying gravity waves and turbulence: Horizontal, vertical and temporal resolution needed 17 p2688 N84-27116
Parametrization of Fresnel returns in middle-atmosphere radar experiments 17 p2689 N84-27123
Capabilities and limitations of EISCAT as an MST radar 17 p2690 N84-27129
VHF radar measurements during MAP/WINE 17 p2691 N84-27135
The Urbana MST radar, capabilities and limitations 17 p2691 N84-27136

Outline of the Mu radar 17 p2691 N84-27140
Research status and recommendations from the Alaska workshop on gravity waves and turbulence in the middle atmosphere
[AD-A140939] 18 p2879 N84-28281
Middle atmospheric science 20 p3219 N84-30448

MIDLATITUDE ATMOSPHERE
Middle latitude forcing of a model tropical atmosphere with horizontally nonuniform basic states 06 p0880 N84-15724

MIDLATITUDES
U TEMPERATE REGIONS

MIE SCATTERING
NT RAYLEIGH SCATTERING
Mie code AGAUS 82
[AD-A133469] 06 p0918 N84-15964
Journal of Research of the National Bureau of Standards. Volume 88, Number 5, September-October 1983
[PB84-125293] 08 p1139 N84-17406
Temperature, concentration, and size measurements in turbulent reactive flows 13 p1943 N84-22633
Quantitative measurement of rainfall rate, theoretical basis 18 p2886 N84-28317
Mie scattering as a technique for the sizing of air bubbles
[AD-A142737] 21 p3496 N84-32170

MIE THEORY
U MIE SCATTERING

MIG AIRCRAFT
A model to investigate losses and exchange ratios in large-scale air-to-air engagements
[AD-A131410] 02 p0178 N84-11166

MIGRATION
Requirements for migration of NSSD code systems from LTSS to NLTSS
[DE84-009533] 15 p2395 N84-25368
Boundary migration and disappearance of voids in Alpha-Al2O3 at 2000 deg C
[NASA-TM-77436] 19 p3110 N84-29758

MILANKOVITCH THEORY
U CLIMATOLOGY

MILITARY AIR FACILITIES
Standard Engineering Installation Package. Ground control approach radar systems and radome(S)
[AD-A130726] 01 p0066 N84-10430
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F. Altus AFB, Oklahoma
[AD-A131613] 02 p0254 N84-11662
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F. Grissom AFB, Indiana
[AD-A131198] 02 p0254 N84-11665
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F. Blytheville AFB, Arkansas
[AD-A131197] 02 p0254 N84-11666
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F. Ellsworth AFB, Rapid City, South Dakota
[AD-A131196] 02 p0255 N84-11667
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F. Carswell AFB, Texas
[AD-A131193] 02 p0255 N84-11669
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F. Cape Newenham AFS, Alaska
[AD-A131192] 02 p0255 N84-11670
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F. Tin City AFS, Alaska
[AD-A131191] 02 p0255 N84-11671
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F. Wertheim AAF, West Germany
[AD-A131190] 02 p0255 N84-11672
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F. Loring AFB, Maine
[AD-A131189] 02 p0256 N84-11673
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A, C, and D. Feucht AAF, West Germany
[AD-A131188] 02 p0256 N84-11674
Terminal forecast reference notebook for RAF Alconbury, England
[AD-A133835] 05 p0708 N84-14640
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Travis Air Force Base, California
[AD-A137561] 11 p1686 N84-20996
Strategies for and validity of noise monitoring in the vicinity of civilian airfields and army installations
[AD-A137780] 11 p1729 N84-21279
Development of probabilistic rigid pavement design methodologies for military airfields
[AD-A136212] 12 p1804 N84-21760
The United States Air Force graduate student summer support program, 1983. Management report
[AD-A139363] 14 p2245 N84-24483
United States Air Force summer faculty research program, 1983, volume 1
[AD-A139403] 14 p2245 N84-24485
United States Air Force summer faculty research program, 1983, volume 2
[AD-A139404] 14 p2246 N84-24486
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-E: Clark AFB, Philippines
[AD-A141226] 18 p2890 N84-28342

MILITARY AIRCRAFT
Crew station evaluation in a dynamic flight simulation facility 06 p0774 N84-15069
Analysis of US Coast Guard HU-25A visual and radar detection performance
[AD-A133360] 06 p0784 N84-15138
A multi-period repair parts inventory model for a naval air rework facility
[AD-A136873] 10 p1419 N84-19280
Historical inflation program. A computer program generating historical inflation indices for Army aircraft: Revision
[AD-A137670] 11 p1599 N84-20474
Multibus Avionic Architecture Design Study (MAADS)
[AD-A138226] 12 p1770 N84-21546
A technique for optimizing the aerodynamic design of a generalized combat aircraft with forward swept wings for the purposes of stability and control investigation
[CA-8325] 16 p2448 N84-25700
USAF aircraft windshield/canopy bird strikes
[AD-P003215] 17 p2594 N84-26628
Historical research and development inflation indices for Army fixed and rotor winged aircraft
[AD-A142943] 21 p3323 N84-31085
A comparison of simulator procurement/program practices: Military versus commercial
[AD-P003453] 21 p3509 N84-32230

MILITARY AVIATION
An RAF viewpoint on aircraft structural integrity 12 p1764 N84-21503

MILITARY HELICOPTERS
NT AH-1G HELICOPTER
NT H-60 HELICOPTER
NT HEAVY LIFT HELICOPTERS
NT UH-1 HELICOPTER
NT UH-60A HELICOPTER
Manufacturing Methods and Technology (MM and T) specifications for miniature cathode ray tube
[AD-A131042] 01 p0072 N84-10468
Crashworthy cyclic control stick
[AD-A135150] 08 p1103 N84-17176
Lessons learned--advanced attack helicopter
[AD-A135521] 08 p1104 N84-17177
US military aircraft cost handbook
[AD-A136035] 09 p1249 N84-18158
Psychological research in USA within the areas of anti-tank helicopter operations and man-computer interactions: Study trip to USA, May-June 1983
[FOA-C-53012-H2] 10 p1552 N84-20172
Evaluation of automatic test equipment for use with the Army helicopter improvement program
[AD-A137647] 11 p1607 N84-20523
Investigation of interactions between helmet-mounted sight/display, sensor platform and human pilot
[ESA-TT-746] 16 p2539 N84-26299
NASTRAN analysis of nuclear effects on helicopter transparencies
[AD-P003234] 17 p2597 N84-26647
Analysis of incidents during helicopter missions
[FOA-C-53016-H2] 18 p2790 N84-27706
Correlations between incidents during helicopter missions and background variables and moods
[FOA-C-53017-H2] 18 p2790 N84-27707
A review of US Army aircrew-aircraft integration research programs
[NASA-TM-85947] 19 p2968 N84-28809
A laser image generation system for helicopter Nap-Of-the-Earth (NOE) flight training
[AD-P003481] 21 p3512 N84-32248
Contribution of the industry to a better adaptation of helicopters to military requirements
[SNIAS-841-210-102] 23 p3687 N84-33367

MILITARY OPERATIONS
NT COMBAT
NT ELECTRONIC WARFARE
Aeroelastic considerations in preliminary design of a military combat aircraft 02 p0172 N84-11132
Proposed revisions to MIL-F-8785C related to flight safety of augmented aircraft. Volume 1. Section 1 - 7
[AD-A131414] 02 p0175 N84-11153
Proposed revisions to MIL-F-8785C related to flight safety of augmented aircraft. Volume 2. Appendices A - F
[AD-A131415] 02 p0176 N84-11154
Proposed revisions to MIL-F-8785C related to flight safety of augmented aircraft. Volume 3. Appendix G. Pilot comments
[AD-A131416] 02 p0176 N84-11155
Joint services advanced vertical wing (JVX) program
[GPO-22-771] 02 p0177 N84-11160
Physical fitness as a moderator of cognitive degradation during sleep deprivation
[AD-A131962] 03 p0415 N84-12718
Extending the lifetime of operational systems through corrosion tracking and prediction
[AD-A133931] 05 p0625 N84-14112
Douglas Aircraft Company Advanced Concept Ejection Seat (ACES 2), revision c
[AD-A133628] 05 p0628 N84-14131
Maintenance communications for the 1990's
[AD-A133978] 05 p0666 N84-14383
IFFN (Identification Friend, Foe, or Neutral) report. Phase 1: Design activities
[AD-A133702] 05 p0669 N84-14397
Reliability programs for nonelectronic designs, volume 1
[AD-A133624] 05 p0689 N84-14529
A preliminary assessment of observer expectations in target detection tasks
[MRL-R-893] 05 p0715 N84-14682
Computer aided construction of ground attack mission profiles over European terrain 06 p0772 N84-15060
A dynamic approach to military avionics systems testing 06 p0774 N84-15075
Analysis of US Coast Guard HU-25A visual and radar detection performance
[AD-A133360] 06 p0784 N84-15138
Broadband base isolated asymmetrically fed VHF antenna 06 p0827 N84-15393
Integrated Computer-Aided Manufacturing (ICAM) architecture part 3. Volume 1: Architecture part 3: Accomplishments
[AD-A134249] 07 p1055 N84-16829
Implications of joint NASA/DOD participation in Space Shuttle operations
[PB84-122472] 08 p1120 N84-17286
Extending human effectiveness during sustained operations through sleep management
[AD-A134762] 08 p1200 N84-17825
A strategy for improving overhead cost control
[AD-A134661] 08 p1238 N84-18092
Power supply technology working group report IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A137525] 10 p1504 N84-19835
Testing technology working group report IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A137526] 10 p1504 N84-19836
Technical information support for survivability 10 p1508 N84-19868
Aircraft survivability 10 p1508 N84-19869
A review of major issues relating to human-machine integration in the development of military systems
[AD-A136739] 10 p1554 N84-20184
Air force technical objective document fiscal year 1985
[AD-A136724] 10 p1598 N84-20471
Selected factors affecting aircrew performance during sustained operations 11 p1698 N84-21074
Human factors of air operations in the South Atlantic campaign 11 p1699 N84-21080
Sustained military operations with particular reference to prolonged exercise 11 p1699 N84-21081
An expected value air combat model simulation algorithm to predict missions performance in tactical air operations
[AD-A137651] 11 p1718 N84-21207
An RAF viewpoint on aircraft structural integrity 12 p1764 N84-21503
Jam-resistant tactical communications 13 p1976 N84-22828
Spread spectrum data networks 13 p1977 N84-22832
Use of helicopters to develop operational concepts for V/STOL (vertical and short takeoff and landing) aircraft in naval missions
[AD-A139354] 14 p2105 N84-23624
Proceedings of the 1983 Symposium on Military Space Communications and Operations
[AD-A135021] 14 p2137 N84-23609
Satellite tactical communications at high altitudes
[AD-P002145] 14 p2137 N84-23610

Air operations language for military space ground systems
[AD-P002146] 14 p2137 N84-23811
Satellite system survivability
[AD-P002147] 14 p2137 N84-23812
Reliability in space: Program manager and user awareness
[AD-P002148] 14 p2137 N84-23813
The evolution of Air Force Space Mission Command, control and communications
[AD-P002149] 14 p2137 N84-23814
Operation of communications satellite systems during crisis and conflict
[AD-P002150] 14 p2138 N84-23815
A commonality approach to DoD command and control centers
[AD-P002153] 14 p2138 N84-23818
C3I modeling and simulation
[AD-A139264] 14 p2140 N84-23830
Evaluation of eye movement training for Navy pilots
[AD-A139489] 14 p2185 N84-24091
Airsickness during Naval flight officer training: Fleet readiness squadrons
[AD-A138973] 14 p2185 N84-24095
Summary of research, academic departments, 1982-1983
[AD-A140059] 15 p2416 N84-25507
The development of the Navy variant of the Dauphin 2 helicopter
[SNIAS-832-210-106] 16 p2448 N84-25706
EMV norms: Introduction to the norms of electromagnetic accomodation
[MBB-UR-652-83-O] 16 p2481 N84-25910
Aeromedical support in military helicopter operations 16 p2536 N84-26280
Battle damage repair of birdstrike resistant laminated transparencies
[AD-P003185] 17 p2589 N84-26598
Proposed crashworthiness requirements for the Australian Basic Trainer
[AD-A140850] 17 p2603 N84-26682
Specialized common carriers: Long distance alternatives for military installations
[AD-A140596] 17 p2653 N84-26967
Evaluation of the BCT (Basic Cadet Training) paraprofessional counselor training at the United States Air Force Academy
[AD-P003244] 18 p2903 N84-28411
Estimated effects of ionizing radiation upon military task performance: Individual combat crewmember assessment
[AD-P003255] 18 p2905 N84-28422
Animal models for the assessment of laser induced eye damage
[AD-P003293] 18 p2906 N84-28443
Using comparison-based methods for predicting and designing
[AD-P003364] 18 p2913 N84-28477
Airship proof-of-concept evaluation
[AD-A141759] 19 p2959 N84-28753
A SLAM (Simulation Language for Alternative Modeling) airfield model for airlift operations
[AD-A141106] 19 p2960 N84-28762
Further commentary on U. S. ASAT program 19 p2978 N84-28879
F/A-18 AN/APG-65 radar case study report (IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A142103] 19 p3007 N84-29057
AN/TPQ-36 and AN/TPQ-37 firefinder radars case study report (IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Research and Maintainability) study
[AD-A142104] 19 p3007 N84-29058
Guidelines for Man/Display interfaces with relevance to military environments
[AD-A142171] 19 p3071 N84-29482
Analysis of computer interactive tests for assigning helicopter pilots to different missions
[AD-A142434] 20 p3262 N84-30696
Computer graphics enhancement for COMEL (communications electronics)
[AD-A141920] 20 p3269 N84-30741
A model of inter-organizational influences on organizational processes
[AD-A142450] 20 p3313 N84-31037
T700 engine case study report. IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A143104] 21 p3343 N84-31211
Seeker systems simulation, present capability and future technology 21 p3350 N84-31254
Ophthalmological investigation among contact lens wearers in military service
[REPT-AR/MHAM-1983-1] 21 p3458 N84-31940
The feasibility, practicality and utility of P-3 inflight refueling
[AD-A143419] 22 p3535 N84-32362
Rand's experience in applying artificial intelligence techniques to strategic-level military-political war gaming
[P-6977] 22 p3649 N84-33137
An evaluation of two reliability and maintainability information systems
[AD-A143436] 22 p3674 N84-33290
AVCAL (Aviation Consolidated Allowance) restoration program and aircraft material condition
[AD-A144045] 23 p3687 N84-33366
Naval applications for Remotely Piloted Vehicles (RPV's)
[AD-A143826] 23 p3693 N84-33405
Development of accelerated fuel-engine qualification procedures
[AD-A143845] 23 p3693 N84-33406
The functional condition of seamen under conditions of the southern maritime area 23 p3807 N84-34137
Simulation applied to the avionics system testing in the F/A-18 24 p3849 N84-34409
Automatic gain control circuit for video signals of scenes of varying illumination levels
[AD-A144198] 24 p3894 N84-34658
Information systems: The challenge of the future for the Air Force Communications Command
[AD-A144277] 24 p3969 N84-35129

MILITARY PSYCHIATRY
U MILITARY PSYCHOLOGY

MILITARY PSYCHOLOGY
Variations in states of alertness during continuous operations at the control post level 11 p1697 N84-21068
The effects of sleep loss and sustained mental work: Implications for command and control performance 11 p1697 N84-21069
Psycho-ergonomic problems presented by the prolonged wearing of gas masks 11 p1698 N84-21073
Cohesion in the US military
[AD-A140828] 17 p2747 N84-27439
Environments for evaluating performance of C3I (Command, Control, Communications, and Intelligence) systems
[AD-P003237] 18 p2902 N84-28404
A sociotechnical communications model for command and control
[AD-P003238] 18 p2902 N84-28405
Military deception: A clinical psychological analysis
[AD-P003239] 18 p2902 N84-28406
Thought control from parenting, to behavior mod, to cults, to brainwashing
[AD-P003240] 18 p2903 N84-28407
Relevant and irrelevant legal structures: Distinguishing private sector from DOD contracting
[AD-P003241] 18 p2903 N84-28408
Notes on a theory of terrorism
[AD-P003242] 18 p2903 N84-28409
Situational interaction: A peer counseling approach to AWOL (unauthorized absences from duty) reduction
[AD-P003243] 18 p2903 N84-28410
Evaluation of the BCT (Basic Cadet Training) paraprofessional counselor training at the United States Air Force Academy
[AD-P003244] 18 p2903 N84-28411
Suicide gestures of USAF basic trainees
[AD-P003245] 18 p2903 N84-28412
Factor stability and construct validation of Yuki's MBS (Managerial Behavior Survey) for military leadership
[AD-P003246] 18 p2904 N84-28413
Exploring the interaction of the Vroom/Yetton model and leadership style (LPC) (Least Preferred Coworker) as it predicts performance
[AD-P003247] 18 p2904 N84-28414
Subordinate perceptions of contingent leaders: Do followers accept our theories?
[AD-P003248] 18 p2904 N84-28415
To the wilderness and beyond: The application of a model for transformal change
[AD-P003249] 18 p2904 N84-28416
Comparative effects of bremsstrahlung, gamma, and electron radiation on rat motor performance
[AD-P003250] 18 p2904 N84-28417
A summary of the psychological effects of tactical nuclear warfare
[AD-P003256] 18 p2905 N84-28423
Affective determinants of job perceptions
[AD-P003258] 18 p2905 N84-28425
Expectations, job perceptions and disconfirmation among Air Force Academy graduates
[AD-P003259] 18 p2906 N84-28426
The effects of REFORGER (return of forces to Germany) exercise participation on soldiers' attitudes
[AD-P003260] 18 p2906 N84-28427
Changes in attitudes toward women at the Air Force Academy
[AD-P003261] 18 p2906 N84-28428
Risk-taking performance of military personnel: Sex differences and practice effects
[AD-P003262] 18 p2906 N84-28429
Comparing well-being and stress of several high risk Army groups
[AD-P003264] 18 p2906 N84-28430
Leadership, managership, and computers in today's Air Force
[AD-P003351] 18 p2912 N84-28468
Relationship between crewmember characteristics and tank crew performance
[AD-P003355] 18 p2912 N84-28471
Static versus dynamic presentation of visual cues in simulated low level flight
[AD-P003360] 18 p2913 N84-28473
NOSC (Naval Ocean Systems Center)-Hawaii perceptual sciences research program
[AD-P003361] 18 p2913 N84-28474
Factors affecting visual performance with stereoscopic television displays
[AD-P003362] 18 p2913 N84-28475
Interactions of motion perception with pattern perception
[AD-P003363] 18 p2913 N84-28476
The dual meaning of the term context: Implications for research, theory and applications
[AD-P003365] 18 p2913 N84-28478
Research integration: An essential for Department of Defense psychological research
[AD-P003366] 18 p2913 N84-28479
Video games: A human factors guide to visual display design and instructional system design
[AD-P003368] 18 p2914 N84-28480
Cognitive organization as a function of flying experience
[AD-A141787] 19 p3068 N84-29459
Abstracts of ARI research publications FY 1983
[AD-A141440] 19 p3115 N84-29796

MILITARY SPACECRAFT
NT DMSP SATELLITES
NT RECONNAISSANCE SPACECRAFT
Autonomous navigation of USAF spacecraft
[AD-A139173] 14 p2114 N84-23669
Peaceful use and self defense in outer space
[AD-P002155] 14 p2136 N84-23820
Soviet military capabilities in space
[AD-P002156] 14 p2139 N84-23821
Justification of estimates for fiscal year 1985 submitted to Congress February 1984. Missile procurement, Air Force
[AD-A140636] 17 p2773 N84-27609
Izvestiya assails U.S. military space plans 19 p2978 N84-28877
U. S. ASAT program viewed as element of space militarization policy 19 p2978 N84-28878
Electron charging and SGEMP (System Generated Electromagnetic Pulse) studies on satellite dielectrics
[AD-A143012] 21 p3353 N84-31268

MILITARY TECHNOLOGY
Proceedings of the United States Air Force and Tri-Service Wind Energy Workshop and Conference
[AD-A130697] 01 p0103 N84-10666
Wind and wave summaries for selected U.S. Coast Guard operating areas
[AD-A130647] 01 p0108 N84-10702
AFWAL FY82 technical accomplishments
[AD-A131839] 03 p0315 N84-12054
Crash Position Indicator/Crash Survivable Flight Data Recorder ejectable versus nonejectable
[AD-A132329] 04 p0484 N84-13184
System specification for Ada integrated environment type A AIE(1)
[AD-A134060] 05 p0726 N84-14769
Image understanding research and its application to cartography and computer-based analysis of aerial imagery
[AD-A133495] 06 p0866 N84-15842
Research report program of the US Army in Europe 07 p0944 N84-16122
Identification of new potential scientific and technology areas for DoD application. Summary of activities
[AD-A134372] 07 p1064 N84-17050
Military Medical Journal, no. 2, 1983
[L-2341] 08 p1199 N84-17814
Military Medical Journal, no. 4, 1983
[L-2403] 08 p1202 N84-17836
Pravda scores US reaction to draft treaty on use of force in space 09 p1265 N84-18259
Climatic publications
[AD-A136021] 09 p1349 N84-18816
Application of military lubricants in commercial hydraulic/power transmission systems and components
[AD-A136937] 10 p1467 N84-19584

AVRADCOM research helicopter vibration
10 p1507 N84-19867
A summary of Proceedings of the Department of Defense Robotics Applications Workshop, volume 1 (exclusive of presentations)
[AD-A137941] 11 p1711 N84-21157
The aerospace industry in Germany: Today and tomorrow 12 p1764 N84-21501
Contractor 'Hungriness' and the relative profitability of DoD business
[AD-P002798] 13 p2057 N84-23342
Status report of the programs — of MBB
14 p2106 N84-23626
Dynamic spacecraft simulators in military space ground systems
[AD-P002159] 14 p2139 N84-23825
Data envelopment analysis and extensions for decision support and management planning
[AD-A139430] 14 p2246 N84-24489
Workshop on Arms Control in Space
[LC-84-601064] 14 p2248 N84-24505
The research of National Defence's (FOA) future policy document on space technology
[FOA-A-30034-E1] 15 p2265 N84-24602
Air Force Technical Objective Document (TOD) C(3)I (command, control, communications and intelligence) - fiscal year 1985
[AD-A141276] 18 p2829 N84-27961
Proceedings of the 9th Symposium on Psychology in the Department of Defense
[AD-A141043] 18 p2902 N84-28403
Military deception: A clinical psychological analysis
[AD-P003239] 18 p2902 N84-28406
Terrain travel simulation: Data and application
[AD-P003359] 18 p2912 N84-28472
Izvestiya assails U.S. military space plans
19 p2976 N84-28877
U. S. ASAT program viewed as element of space militarization policy 19 p2978 N84-28878
Further commentary on U. S. ASAT program
19 p2976 N84-28879
Bibliography of in-house and contract reports, supplement 12
[AD-A141778] 19 p3041 N84-29298
Air Force Academy Aeronautics Digest
[AD-A142399] 20 p3125 N84-29849
High performance Extrusion Cast Explosives (ECX)
[DE84-006244] 20 p3166 N84-30107
Strategic computing: New-generation computing technology: A strategic plan for its development and application to critical problems in defense
[AD-A141982] 20 p3266 N84-30721
Military Computer Family Operating System: An Ada (trademark) application
[AD-P003427] 20 p3271 N84-30759
The NEBULA and MCF (Military Computer Family) standardization programs
[AD-P003531] 21 p3331 N84-31135
The NEBULA standard computer architecture
[AD-P003532] 21 p3331 N84-31136
Reverse engineering of the multiple launch rocket system. Human factors, manpower, personnel, and training in the weapons system acquisition process
[AD-A142849] 21 p3349 N84-31247
Logistic support: A computer manufacturer's viewpoint
[AD-P003496] 21 p3514 N84-32262
Proceedings of the 5th Interservice-Industry Training Equipment Conference, volume 2
[AD-A142775] 21 p3515 N84-32266
Predictability of inversions at Vandenberg (VBG) AFB, California
[AD-A144042] 23 p3802 N84-34107
Military Medical Journal, no. 4, 1984
[L-2718] 23 p3808 N84-34134
European scientific notes
[AD-A144223] 24 p3965 N84-35284

MILITARY VEHICLES
A combinatorial geometry computer description of the M48A1 Chaparral missile system
[AD-A137262] 11 p1622 N84-20615
Alternative fuels use in a vehicular gas turbine
15 p2290 N84-24741

MILKY WAY GALAXY
Belt of life in the galaxy
[PR-76] 06 p1243 N84-18127
The fate of the magellanic clouds
09 p1413 N84-19248
Far-IR spectroscopy of the galactic center: Neutral and ionized gas in the central 10 pc of the galaxy
[NASA-CR-166510] 13 p2070 N84-23411
Limits on soft X-ray flux from distant emission regions
[NASA-CR-173591] 16 p2582 N84-26558
Photographic surveys of the southern sky
18 p2843 N84-28052
Submillimeter wavelength survey of the galactic plane from l = -5 deg to l = +62 deg: Structure and energetics of the inner disk
[NASA-TM-86077] 20 p3319 N84-31069
Galactic cycles and their relationship to life on Earth
[DE84-011737] 21 p3525 N84-32329
Carbon and nitrogen abundances in field dwarf stars
24 p3986 N84-35236

MILLIMETER WAVES
Design and operation of a collective millimeter-wave free-electron laser
[AD-A131628] 01 p0087 N84-10568
Estimates of millimeter wave attenuation for 18 United States cities
[PB83-240630] 02 p0211 N84-11381
A broadband high power millimeter to centimeter spectrometer
[AD-A131629] 02 p0294 N84-11927
The 30 GHz communications satellite low noise receiver
[NASA-CR-168254] 04 p0517 N84-13398
Dielectric resonators for use in microwave and millimeter-wave GaAs circuits
[AD-A132681] 05 p0675 N84-14440
Millimeter wave guiding structures and antennas
[AD-A133528] 06 p0825 N84-15376
The calculated performance of some radar and transmissometer systems in rain and fog at 35, 94, 140 and 240 GHz, volume 1
[AD-A133587] 06 p0825 N84-15380
High precision material study at near millimeter wavelengths
[AD-A133575] 06 p0918 N84-15966
Urban millimeter wave propagation studies
[AD-A134465] 07 p0993 N84-16439
Silicon millimeter wave devices by MBE (Molecular Beam Epitaxy)
[AD-A134419] 07 p1080 N84-17025
A study of microwave and millimeter-wave quasi-optical planar mixers
[AD-A135252] 08 p1144 N84-17443
Atmospheric scintillation at 94 GHz
[AD-A134743] 08 p1145 N84-17452
Attenuation of millimeter waves on Earth-space paths by rain clouds
[PB84-115120] 08 p1148 N84-17471
A diagnostic probe to investigate propagation at millimeter wavelengths
[PB84-104223] 08 p1148 N84-17473
Climatological coefficients for rain attenuation at millimeter wavelengths
[PB84-104272] 08 p1148 N84-17475
Optimum design of millimeter-wave impatt diode oscillators
[AD-A135335] 08 p1151 N84-17489
Heterojunction solid-state devices for millimeter-wave sources
[AD-A135389] 08 p1151 N84-17490
S-I-S mm-wave mixers and detectors
[AD-A134762] 08 p1235 N84-18074
Development of innovative millimeter-wave broadband mixers
[AD-A136134] 09 p1310 N84-18562
Approaching noise performance limits of Schottky-barrier mixers at millimeter waves
[REPT-S-134] 09 p1310 N84-18567
Research and crystal growth on high dielectric constant materials for mm wave applications
[AD-A136261] 09 p1394 N84-19102
Proceedings of the 16th Finnish Astronomers' Days — conferences
[REPT-S-129] 09 p1413 N84-19241
Millimeter radio astronomy at Onsala (Sweden)
09 p1413 N84-19242
Observations of variable millimeter wave radio sources at Metsaehovi 09 p1413 N84-19245
Solar rotation rate determined from millimeter data
09 p1413 N84-19247
Investigation of new concepts for designing millimetre-wave antennas
[AD-A137350] 10 p1479 N84-19663
Radome analysis
[AD-A136805] 10 p1481 N84-19677
Research on ferroelectric materials for millimeter wave application
[AD-A137128] 10 p1588 N84-20405
Atmospheric millimeter wave propagation model
[PB84-143494] 11 p1645 N84-20754
Topics in the optimization of millimeter-wave mixers
[NASA-TP-2287] 11 p1645 N84-20758
Millimeter and submillimeter wave research: Spectroscopy, energy transfer and techniques
[AD-A137884] 11 p1663 N84-20853
Microwave emission from relativistic electron beams
[AD-A137752] 11 p1730 N84-21285
Millimeter wave metal-insulator-metal detector/mixer diode
[AD-A138391] 12 p1812 N84-21815
Precise measurement of refractive index and absorption coefficient of near millimeter wave and far infrared materials
[AD-A138656] 13 p2043 N84-23253
Quenchings and outbursts of extragalactic radio sources: Nine years of 3.3-mm measurements and comparisons with centimeter-wave variations
[AD-A138233] 13 p2092 N84-23550
Millimeter wave attenuation in moist air: Laboratory measurements and analysis
[AD-A139502] 14 p2140 N84-23832
Lumped element and leaky-wave antennas for millimeter waves
[AD-A139512] 14 p2140 N84-23833
Study of gain, bandwidth, and tunability of a millimeter-wave free-electron laser operating in the collective regime
[AD-A139285] 14 p2151 N84-23884
An atmospheric millimeter wave propagation model
[AD-A139154] 14 p2176 N84-24033
Millimeter wave transmission systems and related devices
[NASA-CR-173515] 15 p2319 N84-24918
The effect of a low-altitude nuclear burst on millimeter wave propagation 15 p2323 N84-24947
183 GHz water line variation: An energetic outburst in orion KL
[NASA-TM-85956] 16 p2574 N84-26522
Computer-aided design of millimeter wave e-plane filters
[AD-A141016] 18 p2833 N84-27987
Acquisition cost analysis for the near term military application of laser versus millimeter wave for satellite crosslink communications
[AD-A141061] 19 p3004 N84-29037
Proceedings of the Antenna Applications Symposium, volume 1
[AD-A142003] 19 p3014 N84-29104
Fundamental design issues for monolithic phased arrays
[AD-P003402] 19 p3014 N84-29106
The mechanical design of a high-power, dual frequency, millimeter-wave antenna feed system
[AD-P003409] 19 p3015 N84-29113
Research on the crystal growth and dielectric properties of high permittivity ferroelectric materials
[AD-A142125] 19 p3111 N84-29767
MMIC technology for advanced space communications systems
[NASA-TM-83749] 20 p3173 N84-30147
A study of distributed millimeter-wave isolators
[AD-A142729] 20 p3179 N84-30189
Biological effects of millimeter-wave irradiation: Living bacterial organisms
[AD-A142474] 20 p3256 N84-30670
Strained layer superlattice materials for millimeter wave FET's, phase 1
[DE84-011475] 20 p3308 N84-31007
Proceedings of the Antenna Applications Symp., volume 2
[AD-A142754] 21 p3383 N84-31467
Submillimeter, millimeter, and microwave spectral line catalogue
[NASA-CR-173899] 22 p3546 N84-32448
Approximation models for electrodynamic systems in solid state millimetric wave devices
22 p3569 N84-32606
Millimetric wave frequency converter using Gunn-effect diode 22 p3570 N84-32607
Microwave and quantum magnetics
22 p3683 N84-33348
Experimental validation of a millimeter wave radar technique to remotely sense atmospheric pressure at the Earth's surface 23 p3775 N84-33935
Precision cutting of millimeter wave ferrite materials
[AD-D011179] 24 p3891 N84-34639
Research in millimeter wave techniques
[NASA-CR-173964] 24 p3893 N84-34655
Millimeter wave communications
[AD-A144636] 24 p3895 N84-34669
High power millimeter wavelength coherent radiation sources
[AD-A144481] 24 p3909 N84-34759
Millimetre waves: A problem for the future
24 p3915 N84-34790
A study of the interaction of millimeter wave fields with biological systems
[AD-A144150] 24 p3935 N84-34910
Bioelectromagnetics research in West Germany: An assessment
[AD-A144297] 24 p3935 N84-34911

A new class of solar burst with MM-wave emission but only at the highest frequency (90 GHz)
[NASA-TM-87369] 24 p3992 N84-35264
MILLING (MACHINING)
Air-jet milling of grinding materials
[NASA-TM-77366] 09 p1291 N84-18430
Economic roughing and finish milling with end mills made of high speed tool steel class HSSE: High cobalt alloyed 09 p1292 N84-18442
High speed steel special cutting tools: Their design and application 09 p1292 N84-18443
Ball-on-block impact-spalling wear test and results on several iron alloys
[PB84-115633] 09 p1319 N84-18615
MILLING MACHINES
Manufacturing information system
[AD-A137891] 11 p1641 N84-20730
Novel method of assembling large multicomponent machine sets 17 p2641 N84-26899
MIMAS
The Mimas ghost revisited: An analysis of the electron flux and electron microsignatures observed in the vicinity of Mimas at Saturn
[NASA-CR-174596] 03 p0484 N84-13056
A geographic comparison of selected large-scale planetary surface features
[NASA-TM-86147] 22 p3679 N84-33320
MINER RULE
U PALMGREN-MINER RULE
MINERAL DEPOSITS
Structure of the Saint Francois Mountains and surrounding lead belt, south east Missouri: Inferences from thermal IR and other data sets
[E84-10027] 01 p0099 N84-10645
Platinum-group metals
[PB83-239152] 02 p0198 N84-11291
Estimation of uncertainty in coal resources
[DE83-902536] 03 p0401 N84-12620
Alaska's mineral resources
[DE83-016599] 03 p0401 N84-12623
Kriging of geological and physical parameters from Yucca Flat, NTS
[DE83-018227] 04 p0550 N84-13625
An evaluation of thematic mapper simulator data for the geobotanical discrimination of rock types in Southwest Oregon
[NASA-CR-166569] 12 p1828 N84-21915
Mineral resources of Antarctica 14 p2160 N84-23937
Proterozoic to mesozoic mobile-belt geology, Pensacola Mountains, Antarctica 14 p2162 N84-23947
Sedimentology of the Horlick Formation (Lower Devonians), Ohio Range, Transantarctic Mountains 14 p2162 N84-23948
A compilation of mineral occurrences and the relationship of occurrences to structural elements of the Kentucky and Tennessee region
[NASA-CR-175240] 18 p2878 N84-28275
Minerals 19 p3038 N84-29268
NASA pilot land data system 21 p3427 N84-31741
Geology hydrology and mineral resources of crystaline rock areas of Northeastern US
[DE84-013671] 21 p3432 N84-31774
Geology of the Portrerillos District, Atacama, Chile 21 p3438 N84-31811
Geology and geochemistry of the Arctic prospect, Ambler District, Alaska 21 p3438 N84-31814
The depositional environments and petrography of the Stirling Quartzite Death Valley Region, California and Nevada 21 p3439 N84-31816
The petrology and geochemistry of the Yerington Batholith and the Ann-Mason Porphyry Copper Deposit, Western Nevada 21 p3441 N84-31828
Argillic alteration associated with the Amethyst Vein System, Creede Mining District, Colorado 21 p3441 N84-31832
Geology and origin of the Aquila iron deposit in southwestern Michoacan, Mexico 22 p3613 N84-32890
The Hall (Nevada moly) molybdenum deposit, Nye County, Nevada: Geology, alteration, mineralization and geochemical dispersion 23 p3795 N84-34062
MINERAL EXPLORATION
Contribution of LANDSAT-4 thematic mapper data to geologic exploration
[E84-10021] 02 p0237 N84-11557
Multiseasonal and geobotanical approach in remote detection of greisenization areas in the Serra da Pedra Branca Granite, Goias State, Brazil
[E84-10070] 07 p1020 N84-16617
Application of Heat Capacity Mapping Mission data to regional geologic analysis for mineral and energy resource evaluation
[E84-10078] 07 p1021 N84-16625
The Duffek intrusion of Antarctica and a survey of its minor metals related to possible resources 14 p2161 N84-23943
Emerging recognition of the nonfuel mineral resources of Arctic Alaska 14 p2164 N84-23962
Project SERGE: Brazil referential field data for the SIR-A experiment
[INPE-2973-NTE/210] 17 p2711 N84-27259
Evaluation of proposed human subject certification tests for self-contained breathing apparatus
[PB84-172212] 17 p2748 N84-27447
Regional natural electric fields and their prospecting significance 18 p2864 N84-28181
Petroleum and minerals resource assessment 19 p3038 N84-29273
Evaluation of LANDSAT-4 Thematic Mapper data as applied to geologic exploration: Summary of results — Death Valley, California, Cement-Velma, Oklahoma; Big Horn and Wind River Basins, Wyoming; Spanish Peaks, Colorado; and the Four Corners area (Paradox Basin of Utah and Colorado) 20 p3213 N84-30412
Environmental geologic studies on the United States mid- and north Atlantic outer continental shelf area, 1980-1982. Volume 1: Executive summary
[PB84-187939] 20 p3252 N84-30639
Remote sensing for geobotanical prospecting 22 p3613 N84-32889
Transient response from thin dyke in the Earth for loop excitation 23 p3776 N84-33941
Metallogenic studies in Kazakhstan outlined 24 p3869 N84-34520
MINERAL METABOLISM
The effects of spaceflight on the mineralization of rat incisor dentin 09 p1353 N84-18845
Morphological and histochemical studies of bone and cartilage during periods of stimulated weightlessness 09 p1354 N84-18847
Research opportunities in bone demineralization, phase 3
[NASA-CR-3795] 17 p2743 N84-27417
Hypokinesia experiment studies effects of weightlessness 21 p3347 N84-31234
Effects of insulin and hydrocortisone on energy metabolism in rats irradiated with fast, 60 MeV neutrons 22 p3630 N84-33002
Urinary excretion of hydroxylysyl glycosides as an index of bone metabolism 23 p3808 N84-34143
Sensitivity of bone cell populations to weightlessness and simulated weightlessness 23 p3809 N84-34151
MINERAL OILS
Inhalation toxicology. 3: Evaluation of thermal degradation products from aircraft and automobile engine oils, aircraft hydraulic fluid, and mineral oil
[AD-A133221] 06 p0869 N84-15778
Middle East Technical University Journal of Pure and Applied Sciences, volume 15, no. 3 15 p2401 N84-25411
Selection of a mineral-base lubricant for the cold rolling of aluminum strip 15 p2401 N84-25412
Application of the liquid column chromatography to the study of lubricating oils and esters separation 18 p2817 N84-27889
Characterization of erosion of metallic materials under cavitation attack in a mineral oil
[NASA-TP-2368] 22 p3603 N84-32825
MINERALOGY
High-temperature inclusions in the Murchison meteorite 11 p1755 N84-21454
Primitive meteorites: Where do they come from and how do they form? 11 p1755 N84-21458
Lunar sample analysis
[NASA-CR-171771] 11 p1758 N84-21477
Mineralogic and petrologic studies of meteorites and lunar samples
[NASA-CR-175390] 11 p1758 N84-21478
Preliminary study of microtektites first discovered in the central Pacific by China
[NASA-TM-77470] 14 p2250 N84-24514
Petrologic and geophysical sources of long-wavelength crustal magnetic anomalies
[NASA-CR-175245] 18 p2878 N84-28276
Microtopography of micro-diamonds from sedimentary covers in the southwestern part of the Eastern European platform and a possible genetic interpretation
[CSIR-TRANS-1726] 21 p3443 N84-31842
Geology and origin of the Aquila iron deposit in southwestern Michoacan, Mexico 22 p3613 N84-32890
MINERALS
NT ASBESTOS
NT BARITE
NT BIOTITE
NT CALCITE
NT CHROMITES
NT DOLOMITE (MINERAL)
NT FLUORITE
NT FLUORSPAR
NT GARNETS
NT GRAPHITE
NT GYPSUM
NT IRON ORES
NT KREEP
NT MAGNETITE
NT MICA
NT OLIVINE
NT PEROVSKITES
NT PYROXENES
NT QUARTZ
NT SPINEL
Surface modification of some titanate minerals subjected to hydrothermal chemical attack
[AERE-R-10799] 01 p0039 N84-10249
Geologic map and mineral resources summary of the Farner Quadrangle, Tennessee and North Carolina
[DE83-902886] 02 p0240 N84-11576
Surface chemistry in the flotation of minerals 06 p0817 N84-15323
Spectroscopic studies on surface reactions between minerals and reagents in flotation systems 06 p0817 N84-15324
Optical properties of natural minerals and other materials in the 350-50000 cM-1 spectral region
[AD-A133530] 06 p0918 N84-15965
Assessment of acid rain on leaching of elements from Delaware soils into groundwater
[PB84-120649] 09 p1343 N84-18770
Classification of the California Desert for geology-energy-mineral resource potential geostatistical classification
[PB84-100668] 10 p1538 N84-20078
USSR report: Materials science and metallurgy
[JPRS-UMS-84-001] 12 p1783 N84-21633
Program for processing raw materials 12 p1784 N84-21642
Detection of hidden mineral deposits by airborne spectral analysis of forest canopies — Spirit Lake, Washington; Catheart Mountain, Maine; Blacktail Mountain, Montana; and Cotter Basin, Montana
[E84-10110] 12 p1830 N84-21928
Use of MAGSAT anomaly data for crustal structure and mineral resources in the US midcontinent
[E84-10112] 13 p2005 N84-23005
Magnetic properties of Martian surface material
[NASA-CR-173491] 15 p2425 N84-25566
Far infrared extinction coefficients of minerals of interest for astronomical observations 16 p2571 N84-26502
Symposium Proceedings: A National program for the assessment and development of the mineral resources of the United States Exclusive Economic Zone
[US-CIRC-929] 18 p2866 N84-28192
Panel 1B: Assessment and scientific understanding of hard mineral resources in the EEZ 18 p2866 N84-28195
Panel 2B: Engineering-technology assessment, hard minerals 18 p2866 N84-28197
Far infrared extinction coefficients of minerals of interest for astronomical observations 18 p2949 N84-28700
Structural-geomorphological interpretation of lineaments detected from space photographs and patterns of mineral distribution 19 p2977 N84-28871
Yearbook of the Bureau of Mineral Resources, Geology and Geophysics, Canberra, 1 July 1982 - 30 June 1983
[BMR-83] 19 p3037 N84-29266
Minerals 19 p3038 N84-29268
National and international geoscience maps 19 p3038 N84-29271
Petroleum and minerals resource assessment 19 p3038 N84-29273
Sulfidation- and oxidation-resistant ferritic stainless steel containing aluminum
[PB84-189521] 20 p3165 N84-30101
Discrimination of iron alteration minerals in remote sensing data 21 p3425 N84-31727
Petrography and depositional environment of the Herrin (no. 6) seam in central, eastern and northwestern Illinois 21 p3438 N84-31813
MINES
Electrical-shock prevention. Volume 2: Ground-fault interrupting devices
[PB84-102953] 08 p1206 N84-17866
MINES (EXCAVATIONS)
Use of aircraft imagery in evaluating ground stability at open-pit uranium mines in Gas Hills, Wyoming
[DE83-903011] 03 p0401 N84-12621
Correlation of LANDSAT and air photo linears with roof control problems and geologic features
[PB83-250852] 04 p0555 N84-13656
Geological and geochemical controls on the chemical evolution of subsurface water in undisturbed and surface-mined landscapes in western North Dakota
[PB84-126952] 08 p1180 N84-17685

Electrical-shock prevention. Volume 1: Protection of maintenance personnel
[PB84-102946] 08 p1206 N84-17865
Electrical-shock prevention. Volume 4: Overhead-line contact fatalities
[PB84-102979] 08 p1207 N84-17868
Investigations into the use of ice for cooling deep mines 11 p1641 N84-20728
Performance criteria guideline for three explosion protection methods of electrical equipment rated up to 15,000 volts AC
[NASA-TM-85528] 17 p2640 N84-26887
Evaluation of proposed human subject certification tests for self-contained breathing apparatus
[PB84-172212] 17 p2748 N84-27447
Ground penetrating radar: A review of its application in the mining industry, information circular 1984
[PB84-178292] 20 p3176 N84-30172
Final comparison of TM and MSS data for surface mine assessment in Logan County, West Virginia
20 p3216 N84-30430
Reports on cartography and geodesy. Series 1: Original reports, number 92
[ISSN-0469-4236] 20 p3225 N84-30495
DIGMAP, an interactive graphic support system for mine survey 20 p3225 N84-30496
Performance and test criteria for dc fuses, phase 1
[PB84-202662] 21 p3395 N84-31548

MINES (ORDNANCE)
IRAAM wind tunnel test, task 3
[AD-A135256] 08 p1099 N84-17148
Electromagnetic wave scattering by partially-buried metallic and dielectric objects
[AD-A140109] 15 p2322 N84-24939

MINIATURE ELECTRONIC EQUIPMENT
Manufacturing Methods and Technology (MM and T) specifications for miniature cathode ray tube
[AD-A131042] 01 p0072 N84-10468
Manufacturing Methods and Technology (MM and T) specifications for miniature cathode ray tube
[AD-A132797] 05 p0675 N84-14439

MINIATURIZATION
NT MICROMINIATURIZATION
NdP5O14 crystal used for miniature rangefinder
[AD-A132541] 04 p0539 N84-13549
Miniaturized Measurement and Testing (MMT) system — microprocessor system
[MBB-UA-767-83-O] 14 p2203 N84-24226

MINICOMPUTERS
Sharp PC-1500 pocket computer solutions to composite materials formulas
[AD-A130421] 01 p0031 N84-10193
Procedures for the transfer of data files between the BRL CYBER computer system and the IBD Hewlett-Packard minicomputer network
[AD-A132063] 03 p0418 N84-12731
Minicomputer administered tasks in the study of effects of sustained work on human performance
[AD-A133670] 05 p0715 N84-14688
Thermodynamics library for AFOS (Automation of Field Operations and Services) programmers (THERMO LB)
[PB84-122521] 08 p1215 N84-17925
Computer program for preliminary helicopter design
[AD-A136026] 09 p1256 N84-18197
Sharp PC-1500 pocket computer solutions to statistical data analysis of composite materials or metals
[AD-A135066] 09 p1276 N84-18334
Computer programs for continuum measurements at the Metsaehovi Radio Research Station
[REPT-S-130] 09 p1370 N84-18943
Telemetry simulation assembly implementation in the DSN 10 p1475 N84-19633
A high-speed data acquisition system for fluid mechanics measurements
[PB84-134592] 10 p1496 N84-19781
Development INTERDATA 8/32 computer system
[NASA-CR-175425] 10 p1556 N84-20197
Interactive parallel processor for data anelysis
[DE84-004311] 10 p1564 N84-20250
Design of array processor software for nonlinear structural analysis
[AD-A137767] 11 p1706 N84-21124
The use of a small digital computer for on-line behavioral experiments
[AD-A138975] 13 p2025 N84-23126
West Europe report: Science and technology
[JPRS-WST-84-001] 14 p2135 N84-23799
East Europe report: Scientific affairs
[JPRS-ESA-84-009] 14 p2136 N84-23802
New developments in science, technology described. Specialized GEO-20 minicomputer system
14 p2136 N84-23803
Research on new, fast, direct-executing programs for multiple microprocessor systems
[PB84-162791] 15 p2393 N84-25364
Signal processing at the Poker Flat MST radar
17 p2695 N84-27169
ELORG permanent exhibition
18 p2919 N84-28508
The C.mmp multiprocessor
[AD-A142132] 19 p3072 N84-29493
Operations manual for the data acquisition and reduction system, Area III Actuator Test Facility
[DE84-006906] 19 p3116 N84-29803
Voice Interactive Systems Technology (VIST) research
[AD-A142698] 20 p3267 N84-30726
Military Computer Family Operating System: An Ada (trademark) application
[AD-P003427] 20 p3271 N84-30759
Asynchronous file transfer to IBM PC's
22 p3672 N84-33275
System for recording and input to computer of one-dimensional images of dim objects and high-speed processes 24 p3941 N84-34951
East Europe report: Science and technology
[JPRS-ESA-84-033] 24 p3943 N84-34960
New computer developments described
24 p3943 N84-34962

MINIMA
User's guide for SOL/QPSOL: A FORTRAN package for quadratic programming
[DE83-016990] 03 p0421 N84-12752

MINIMAX TECHNIQUE
Computational methods for static and dynamic systems and engineering applications
[PB83-227314] 01 p0135 N84-10884
A minimax theorem for antijamming group codes
[DFVLR-FB-83-30] 06 p0906 N84-15879
Normal modes of a LaGrangian system constrained in potential well
[AD-A137948] 11 p1715 N84-21187
Minimax methods for indefinite functionals
[AD-A137953] 11 p1716 N84-21190
Optimal design of an antenna array
[FTZ-454-TBR-38-E] 12 p1808 N84-21789
Linear multistep methods with minimized truncation error for periodic initial value problems
[MC-NW-157/83] 13 p2034 N84-23195
Axiomatic characterization and comparative analysis of preference on desirability and possibility
[AD-P002329] 14 p2189 N84-24120
A new minimax algorithm
[NASA-CR-172362] 19 p3074 N84-29503
Seasonal precipitation forecasting with a 6 to 7 month lead time in the Pacific Northwest using an information theoretic model
[PB84-207018] 22 p3626 N84-32979

MINIMIZATION
U OPTIMIZATION

MINIMUM VARIANCE ORBIT DETERMINATION
Precise orbit determination for ERS-1
[ESA-CR(P)-1842] 12 p1776 N84-21591

MINING
NT STRIP MINING
Geologic map and mineral resources summary of the Farner Quadrangle, Tennessee and North Carolina
[DE83-902886] 02 p0240 N84-11576
Hydraulic hoisting and backfilling
[CSIR-ME-452] 04 p0532 N84-13498
Electrical-shock prevention. Volume 1: Protection of maintenance personnel
[PB84-102946] 08 p1206 N84-17865
Electrical-shock prevention. Volume 2: Ground-fault interrupting devices
[PB84-102953] 08 p1206 N84-17866
Electrical-shock prevention. Volume 4: Overhead-line contact fatalities
[PB84-102979] 08 p1207 N84-17868
Analysis of electrical accident prevention countermeasures
[PB84-102987] 08 p1207 N84-17869
Generation, collection, and analysis of welding fumes
[PB84-116607] 09 p1326 N84-18663
Development of composite fiber-optic electric-power umbilical cable and optical feedthrough for deep ocean mining 11 p1722 N84-21231
Program for processing raw materials
12 p1784 N84-21642
Panel 2B: Engineering-technology assessment, hard minerals 18 p2886 N84-28197
Seismicity of the Paradox Basin and the Colorado Plateau interior
[DE84-011620] 20 p3228 N84-30516
A pioneer deep ocean mining venture
[PB84-199645] 21 p3433 N84-31780
Longwall shearer tracking system
[NASA-CASE-MFS-25717-1] 23 p3749 N84-33768

MINIVAR ORBIT DETERMINATION
U MINIMUM VARIANCE ORBIT DETERMINATION

MINNESOTA
A study of Minnesota land and water resources using remote sensing
[E84-10023] 02 p0237 N84-11558
Duluth, Duluth IAP, Minnesota. Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F
[AD-A134200] 07 p1037 N84-16725
Water resources data for Minnesota, water year 1982. Volume 1: Great Lakes and Souris-Red-Rainy River Basins
[PB84-163047] 14 p2171 N84-24007
Water resources data for Minnesota water year, 1982. Volume 2: Upper Mississippi and Missouri River Basins
[PB84-163054] 14 p2171 N84-24008
Habitability of the Earth 21 p3427 N84-31740
Geology, hydrology, and mineral resources of crystalline rock areas of the Lake Superior region, US, part 1 — Michigan, Wisconsin, and Minnesota
[DE84-012682] 21 p3432 N84-31775

MINORITIES
Racial bias and predictive validity in testing for selection
[AD-A131830] 03 p0416 N84-12722
NASA Ames summary high school apprenticeship research program, 1983 research papers
[NASA-TM-85931] 22 p3684 N84-33365

MINORITY CARRIERS
Electrical and structural characterization of web dendrite crystals 18 p2939 N84-28643
Influence of oxygen on defect production in electron-irradiated, boron-doped silicon
19 p3045 N84-29320
Surface and allied studies in silicon solar cells
[NASA-CR-173761] 19 p3049 N84-29351

MINUTEMAN ICBM
Qualification of a new MAPO source and ERL-510 curing agent for Minuteman Stage I UF-2721 liner
[AD-A137539] 11 p1626 N84-20640
Stage I propellant surveillance report glacial acrylic acid motors GAA-001 and GAA-002 TP-H1011
[AD-A141099] 19 p3001 N84-29020

MINUTEMAN MISSILES
U MINUTEMAN ICBM

MIRAGE AIRCRAFT
Effects of integrated maintenance on the definitions of onboard equipments — Mirage 2000 aircraft
03 p0316 N84-12066
Hydraulic generation of auxiliary power for the Mirage 2000 aircraft 03 p0335 N84-12176
Methods for developing the navigation and weapon systems of the Mirage 2000 06 p0774 N84-15068
The MIRAGE 2000: Fly by wire control and safety
06 p0777 N84-15093
Retraction and lowering of the mirage undercarriage
[AD-A137791] 11 p1606 N84-20518
Modelling for fatigue crack growth prediction in Mirage IIIO frame 26
[ARL-STRUC-REPT-401] 24 p3912 N84-34772

MIRROR FUSION
Advanced high-field coil designs: 20 Tesla
[DE83-017368] 03 p0368 N84-12397
Summary of the MARS tandem-mirror reactor design
[DE83-017293] 03 p0447 N84-12939
Vacuum measurements on the tandem mirror experiment upgrade (TMX-U) fusion experiment
[DE83-017836] 03 p0448 N84-12946
Status of tandem-mirror confinement
[DE83-017369] 03 p0448 N84-12948
Thermal barriers: Their purpose and functioning
[DE83-017365] 03 p0449 N84-12954
TMX-U experimental results
[DE83-016790] 03 p0449 N84-12955
Thermal performance of the MFTF magnets
[DE83-016275] 03 p0454 N84-12968
Locally omnigenous tandem-mirror design
[DE84-001605] 04 p0607 N84-14007
Circular waveguide systems for electron-cyclotron-resonant heating of the tandem mirror experiment-upgrade
[DE84-003739] 08 p1233 N84-18062
Microwave interferometer using 94-GHz solid-state sources
[DE84-003741] 09 p1392 N84-19090
Tandem mirror fusion research
[DE84-005133] 11 p1738 N84-21339
Negative ion beam requirements for compact tori
[DE84-005752] 12 p1910 N84-22447
Introduction to tandem mirror physics
[DE84-006644] 12 p1911 N84-22451
Impurity characteristics of TMX-U
[DE84-012413] 20 p3297 N84-30932
Theoretical aspects of mirror fusion
[DE84-009139] 20 p3305 N84-30988
Azimuthal electric fields and tandem ambipolarity
[DE84-010843] 21 p3501 N84-32189

START/TM: A study of start-up and fractional power operation of tandem mirror fusion reactors
[DE84-011477] 21 p3502 N84-32186
Physics issues in mirror and tandem mirror systems
[DE84-013837] 22 p3660 N84-33201

MIRRORS
NT MAGNETIC MIRRORS
NT PARABOLOID MIRRORS
NT ROTATING MIRRORS
Spacecraft thermal control selection for seven years of lifetime in synchronous orbit
[MBB-UR-584-82-OE] 02 p0185 N84-11200
Matrix approach for testing mirrors, part 1
[DE83-009398] 02 p0242 N84-11585
Optical analysis of a gimballed mirror system
[DE83-016576S] 02 p0295 N84-11934
High Resolution Imager (HRI) for the Roentgen Satellite (ROSAT) definition study
[NASA-CR-174598] 03 p0342 N84-12223
Windows and mirrors needed for a laser-driven photoneutralizer
[DE83-013582] 03 p0380 N84-12473
Novel techniques for enhanced reflectivity infrared mirrors
[AD-A131924] 03 p0441 N84-12894
Development of a portable specular reflectometer for monitoring solar-mirror materials
[DE83-016065] 03 p0442 N84-12901
Fokker-Planck equation in mirror research
[DE83-016568] 03 p0446 N84-12932
Matrix approach to testing mirrors, part 2
[DE83-011996] 04 p0558 N84-13676
Investigation of soft X-ray reflective coatings
[DE84-000510] 04 p0610 N84-14025
Photodetachment neutralizer development. Laser-resonator study. Volume 1: Summary
[DE84-001682] 06 p0851 N84-15547
Spectral slicing X-ray telescope with variable magnification
[NASA-CASE-MFS-25942-1] 07 p1089 N84-17084
Polymeric glazings
[DE84-000016] 08 p1138 N84-17402
Development and applications of the microchannel spatial light modulator
[AD-A136132] 09 p1323 N84-18645
Proceedings of a Symposium on Laser Induced Damage in Optical Materials: 1981
[PB84-127869] 09 p1324 N84-18649
Proposal for a free electron laser in the X-ray region
[DE84-004735] 10 p1501 N84-19808
A conceptual design study for the secondary mirror drive of the shuttle infrared telescope facility (SIRTF)
[NASA-CR-166562] 10 p1501 N84-19813
Solar Thermal Technology Program: Polymer synthesis and characterization subtask, FY 1983
[DE84-000094] 10 p1530 N84-20022
The AXAF technology program: The optical flats tests
[NASA-TM-82570] 10 p1578 N84-20341
Optical coating in space
[NASA-CR-175441] 11 p1731 N84-21290
Thermal contacts between metal and glass for use at cryogenic temperatures
[NASA-TM-85856] 12 p1907 N84-22423
Reflectivity measurements of laser gyro mirrors
[DFVLR-FB-83-35] 12 p1909 N84-22434
Dual aperture multispectral Schmidt objective
[NASA-CASE-GSC-12756-1] 13 p2042 N84-23248
UV and VUV degradation of very high reflectivity mirrors for use in a storage ring free electron laser
[AD-A138740] 13 p2043 N84-23255
A rf-induced stability of mirrors with inverted pressure profiles
[DE84-007018] 13 p2045 N84-23273
Self-defocusing and optical crosstalk in a bistable optical etalon 14 p2234 N84-24403
Radiation pressure induced optical bistability 14 p2241 N84-24457
Investigation of critical surface degradation effects on coatings and solar cells developed in Germany (S1002) 15 p2275 N84-24858
Fundamental mode rectangular waveguide system for Electron-Cyclotron Resonant Heating (ECRH) for tandem mirror experiment-upgrade (TMX-U)
[DE84-009085] 15 p2322 N84-24940
Feed system for the Metsaehovi cooled 75-95 GHz receiver
[REPT-S-146] 15 p2328 N84-24978
Ultra lightweight mirror fabrication technology
[AD-A140019] 15 p2408 N84-25454
Laser Induced Damage in Optical Materials: 1982
[PB84-175124] 16 p2498 N84-26025
Innovative research in the design and operation of large telescopes for space: Aspects of giant telescopes in space 17 p2765 N84-27560
Rapid Test Bed Concentrator (TBC) alignment techniques 18 p2875 N84-28256
Monte Carlo studies of tandem mirror plasmas interacting with waves in the Ion Cyclotron Range of Frequencies
[DE84-006901] 18 p2934 N84-28605
Rebuttal to floating a satellite on microwaves
[AD-P003413] 19 p3016 N84-29117
Microwave measurement test results of circular waveguide components for Electron Cyclotron Resonant Heating (ECRH) of the Tandem Mirror Experiment-Upgrade (TMX-U)
[DE84-009538] 19 p3108 N84-29746
The Spot of Arago and its role in aberration analysis
[AD-A141963] 20 p3299 N84-30952
RF-induced stability and transport in axisymmetric tandem mirrors
[DE84-010842] 20 p3306 N84-30999
Interaction of the precessional wave with free-boundary Alfven surface waves in tandem mirrors
[DE84-012527] 20 p3307 N84-31003
Short wavelength optics for future free electron lasers
[DE84-012316] 21 p3410 N84-31626
Operational performance of the Antares alignment system
[DE84-012659] 21 p3410 N84-31632
Double arch mirror study. Part 1: Preliminary engineering report
[NASA-CR-166589-PT-1] 21 p3412 N84-31634
Double arch mirror study. Part 2: Engineering analysis report
[NASA-CR-166589-PT-2] 21 p3412 N84-31635
Double arch mirror study. Part 3: Fabrication and test report
[NASA-CR-166589-PT-3] 21 p3412 N84-31636
Double arch mirror study
[NASA-CR-166589] 21 p3412 N84-31637
Focusers of obliquely incident laser radiation 21 p3487 N84-32099
Theoretical design and analysis of the layered synthetic microstructure optic for the dual path X-ray telescope
[NASA-CR-171133] 21 p3498 N84-32168
Microstructural stability of copper electroplate
[DE84-010070] 21 p3498 N84-32174
Beam recombination via cylindrical mirror
[AD-D011104] 22 p3601 N84-32812
Replication of high power laser mirrors
[AD-D011140] 22 p3656 N84-33177
Observation of advanced particle removal rates in pump limiter simulation experiments
[DE84-014327] 22 p3660 N84-33202
Research relative to high energy astrophysics — large area modular array of reflectors, X-ray spectroscopy, and thermal control
[NASA-CR-173878] 22 p3678 N84-33315
Stable mirror mount
[DE84-014250] 23 p3755 N84-33804

MIS (SEMICONDUCTORS)
Material growth and characterization for solid state devices
[NASA-CR-173265] 10 p1587 N84-20401
Apparatus for the determination of ion drift in MIS structures
[FOA-C-30360-E1] 23 p3831 N84-34301

MISCIBILITY
U SOLUBILITY

MISFETS
U FIELD EFFECT TRANSISTORS

MISMATCH (ELECTRICAL)
Development of a 30 percent efficient 3-junction monolithic cascade solar cell 19 p3047 N84-29328
A review and summary of cell and module mismatch losses from theoretical and experimental studies 22 p3583 N84-32689

MISS DISTANCE
Bank-to-Turn cruise missile terminal guidance and control law comparison
[AD-A132595] 05 p0629 N84-14136
Effect of data latency upon missile accuracy
[AD-A138048] 12 p1778 N84-21600
Warheads for SAM systems 21 p3351 N84-31257

MISSILE ANTENNAS
Issues critical to the application of adaptive array antennas to missile seekers
[AD-A133401] 06 p0824 N84-15371

MISSILE BODIES
An analysis of the buckling of truncated or complete spherical shells under axial compressive loads 07 p0985 N84-16379

MISSILE CASES
U MISSILE BODIES

MISSILE COMPONENTS
NT MISSILE ANTENNAS
NT MISSILE BODIES
A steady-state thermal model for analysis of incipient icing on an air foil leading edge
[AD-A131207] 02 p0175 N84-11150
Issues critical to the application of adaptive array antennas to missile seekers
[AD-A133401] 06 p0824 N84-15371
Missile component repair while wearing NBC protective clothing
[AD-A137315] 10 p1553 N84-20180
Preliminary method for estimating hinge moments of all-movable controls
[AD-A139726] 15 p2264 N84-24597
Investigation of acoustic emission during fracture toughness testing of chevron-notched specimens
[AD-A141315] 18 p2814 N84-27865
Pivotal mono wing cruise missile with wing deployment and fastener mechanism
[AD-D011192] 24 p3853 N84-34436

MISSILE CONFIGURATIONS
Aerodynamic characteristics of a Sparrow 3 missile model in the flow field of a generalized parent body at Mach 2.86
[NASA-TM-85713] 08 p1097 N84-17134
Studies and vorticity effects by the Euler equations with emphasis on supersonic flow fields
[AD-A135118] 08 p1157 N84-17535
Unconventional missile concepts from consideration of varied mission requirements
[NASA-TM-85829] 18 p2785 N84-27679
Wind tunnel tests on a tube-launched missile configuration with a deflectable nose control and a novel wrap-around fin stabiliser
[AD-A142082] 20 p3134 N84-29900

MISSILE CONSTRUCTION
U MISSILE STRUCTURES

MISSILE CONTROL
Aerodynamic characteristics of missile controls 01 p0014 N84-10092
Optical pattern recognition for missile guidance
[AD-A130097] 01 p0018 N84-10113
Stinger post hybrid simulation: Design description and users' manual
[AD-A130027] 01 p0122 N84-10791
Bank-to-turn control
[AD-A132491] 04 p0489 N84-13214
Electromagnetic waves near dielectric structures
[AD-A132630] 05 p0670 N84-14403
Optical data processing for missile guidance
[AD-A136216] 09 p1254 N84-18168
Acta Aeronautica et Astronautica Sinicia (selected articles)
[AD-A137150] 11 p1599 N84-20475
Effect of data latency upon missile accuracy
[AD-A138048] 12 p1778 N84-21600
The role of simulation in high technology missile applications
[AD-A138277] 12 p1778 N84-21601
Design of a robust missile controller by vector performance optimization
[DFVLR-FB-84-05] 15 p2280 N84-24694
Computer simulated development of a command to Line-of-Sight missile using on-off control
[AD-A140041] 15 p2280 N84-24697
Strapdown inertial systems for tactical missiles using mass unbalanced two-axis rate gyros 16 p2447 N84-25696
Modular strapdown guidance unit with embedded microprocessors 16 p2447 N84-25697
Advanced Technology for SAM Systems Analysis Synthesis and Simulation
[AGARD-LS-135] 21 p3350 N84-31248
Advanced technology for SAM systems analysis, synthesis and simulation 21 p3350 N84-31249
Method for designing future weapons systems: Example of the very short distance ground-air systems 21 p3350 N84-31250
Some aspects of guidance loop design for SAM systems 21 p3350 N84-31251
Terminal control for command to line of sight guided missile 21 p3350 N84-31252
A new concept for guiding missiles with an application to the ground-air system 21 p3350 N84-31253
Homing head imperfections altering missile guidance 21 p3351 N84-31256
Optimal digital control of a bank-to-turn missile
[AD-A144043] 23 p3699 N84-33447

MISSILE DEFENSE
Ballistic missile defense, space-based weapons, and the defense of the west
[AD-A140280] 16 p2454 N84-25738

MISSILE DESIGN
Air intakes for a probative missile of rocket ramjet
[NASA-TM-77407] 09 p1251 N84-18170
Unconventional missile concepts from consideration of varied mission requirements
[NASA-TM-85829] 18 p2785 N84-27679

MISSILE DETECTION
NT RADAR DETECTION

MISSILE ENGINE CASES
U ROCKET ENGINE CASES
MISSILE GUIDANCE
U MISSILE CONTROL
MISSILE LAUNCHERS
A combinatorial geometry computer description of the M48A1 Chaparral missile system
[AD-A137262] 11 p1622 N84-20615
Conceptual design of a robotic loader system for remote missile launchers
[AD-A141270] 18 p2802 N84-27781
Vehicle concept for a robotic missile launcher
[AD-A141297] 18 p2802 N84-27782
MISSILE RANGES
White Sands Missile Range, New Mexico Range reference atmosphere 0-70 km altitude
[AD-A132471] 04 p0567 N84-13738
Range safety display system upgrade
[AD-A133789] 05 p0642 N84-14225
Eastern Space and Missile Center (ESMC) capability
[AD-A133788] 05 p0642 N84-14226
Interrange scheduling and Universal Documentation System (UDS) document development and transmission
[AD-A134398] 07 p0961 N84-16230
Range reference atmosphere 0-70 KM altitude
[AD-A134186] 07 p1036 N84-16722
Soil characterization and evaluation at White Sands Missile Range, New Mexico
[AD-A134820] 08 p1108 N84-17206
MISSILE SILOS
High-strength concrete for Peacekeeper facilities
[AD-A140510] 16 p2477 N84-25880
MISSILE SIMULATORS
Missile system: Simulation and validation
12 p1764 N84-21502
MISSILE STABILIZATION
U MISSILE CONTROL
U STABILIZATION
MISSILE STRUCTURES
Determination of optimum fin planform and airfoil section for minimizing fin hinge moment
[AD-A134523] 07 p0948 N84-16151
Missile rolling tail brake torque system — simulating bearing friction on canard controlled missiles
[NASA-CASE-LAR-12751-1] 07 p0961 N84-16231
MISSILE SYSTEMS
The strategic balance, the MX-system and deficiencies in the SALT Treaty
[FOA-C-10207-M3] 07 p0962 N84-16235
AGARD Highlights, March 1984
[AGARD-HIGHLIGHTS-84/1] 12 p1763 N84-21498
Missile system: Simulation and validation
12 p1764 N84-21502
Missile system for low altitude air defence
21 p3351 N84-31255
MISSILE TESTS
A free-form modal survey suspension system for large test articles 10 p1513 N84-19907
MISSILE TRACKING
Range safety display system upgrade
[AD-A133789] 05 p0642 N84-14225
Eastern Space and Missile Center (ESMC) capability
[AD-A133788] 05 p0642 N84-14226
Pacific barrier radar 3 (PACBAR 3)
[AD-A133790] 05 p0668 N84-14392
The oceangoing space survey ship, the Wang Yuan
[AD-A135514] 08 p1108 N84-17204
Range safety transponder catalog
[AD-A140095] 15 p2270 N84-24631
MISSILE TRAJECTORIES
Re-entry and simulation
[AD-A135515] 08 p1108 N84-17201
Suboptimal missile evasion through a sensitivity analysis of proportional guidance to target evasion maneuvers
[AD-A136803] 10 p1428 N84-19336
An open loop missile evasion algorithm for fighters
[AD-A136834] 10 p1428 N84-19339
Acta Aeronautica et Astronautica Sinicia (selected articles)
[AD-A137150] 11 p1599 N84-20475
Drift prediction for a roll-stabilized inertial measurement system
[AD-P002674] 11 p1657 N84-20811
Pershing II simulation studies. Debris dynamics and 2.75 rocket 6-DOF (Degree Of Freedom)
[AD-A139130] 14 p2113 N84-23663
Design and analysis of Coordinated Bank-To-Turn (CBTT) autopilots for Bank-To-Turn (BTT) missiles
[AD-A140103] 15 p2280 N84-24698
Application of sensitivity analysis to aerodynamic parameters of a bank to turn missile
[AD-A141940] 20 p3134 N84-29699
MISSILES
NT AIR TO AIR MISSILES
NT AIR TO SURFACE MISSILES
NT ANTIMISSILE MISSILES
NT ANTISHIP MISSILES
NT ANTITANK MISSILES
NT BALLISTIC MISSILES
NT CRUISE MISSILES
NT INTERCONTINENTAL BALLISTIC MISSILES
NT MINUTEMAN ICBM
NT MX MISSILE
NT PERSHING MISSILE
NT RAMJET MISSILES
NT SPARROW 3 MISSILE
NT SURFACE TO AIR MISSILES
Fluid dynamic mechanisms and interactions within separated flows and their effects on missile aerodynamics
[AD-A130831] 01 p0079 N84-10514
Some results from a programme of research into the structure of vortex flow fields around missile shapes
03 p0323 N84-12111
Water entry impact shock on flat faced cylindrical missiles
[AD-A131937] 03 p0371 N84-12419
Experimental aerodynamic characteristics of missiles with square cross sections
[AD-A132278] 04 p0489 N84-13215
A study to determine the accuracy of 2 computer programs in predicting hinge moments for all movable tail fins on missile bodies
[AD-A133399] 06 p0793 N84-15169
Investigation on Kpsi-guidance (quasi-objective carrying guidance) — missile guidance
[FOA-C-20482-E3] 07 p0962 N84-16237
AQM-81A fireball
[AD-A135895] 09 p1255 N84-18194
Air force technical objective document fiscal year 1985
[AD-A136724] 10 p1598 N84-20471
The role of simulation in high technology missile applications
[AD-A136277] 12 p1778 N84-21601
Design and analysis of Coordinated Bank-To-Turn (CBTT) autopilots for Bank-To-Turn (BTT) missiles
[AD-A140103] 15 p2280 N84-24698
Aging control number 4 of gas generator grains for RB 05 and RB 24
[FOA-C-20528-D1(D9)] 15 p2303 N84-24820
Safety in the handling of rocket motors
[INPE-3033-NTE/214] 17 p2616 N84-26745
Justification of estimates for fiscal year 1985 submitted to Congress February 1984. Missile procurement, Air Force
[AD-A140836] 17 p2773 N84-27609
Multisensor calibration procedure for an all weather short range air defense system concept
[AD-A141337] 18 p2791 N84-27715
A combined Bayes-sampling theory method for monitoring a Bernoulli process
[AD-P003840] 24 p3938 N84-34928
MISSION PLANNING
Payload missions integration
[NASA-CR-170902] 01 p0027 N84-10171
Satellite services system analysis study, part 3
[NASA-CR-171718] 02 p0183 N84-11188
Satellite services system analysis study: Propellant transfer system
[NASA-CR-174573] 02 p0183 N84-11189
Advanced automation program. Program master plan
[DOT/FAA/AP-83/3] 06 p0785 N84-15139
Payload missions integration
[NASA-CR-170949] 06 p0794 N84-15171
An alternate concept for expanding man's presence in space
[NASA-TM-84617] 06 p0794 N84-15172
STS-9: Orbital workshop spacelab to fly on ninth Shuttle mission
[NASA-TM-85497] 07 p0963 N84-16242
Implications of joint NASA/DOD participation in Space Shuttle operations
[PB84-122472] 08 p1120 N84-17286
The International Solar Polar Mission: Its scientific investigations — International Solar Polar Mission (ISPM)
[ESA-SP-1050] 09 p1260 N84-18227
ISPM and the heliosphere 09 p1260 N84-18228
ISPM mission operations 09 p1263 N84-18244
Space station needs, attributes and architectural options study. Volume 1: Executive study
[NASA-CR-173334] 09 p1266 N84-18265
Space station needs, attributes and architectural options study. Volume 2: Mission analysis
[NASA-CR-173333] 09 p1266 N84-18266
Space station needs, attributes and architectural options study. Final executive review
[NASA-CR-173335] 09 p1267 N84-18269
Space station needs, attributes and architectural options. Part 1: Summary
[NASA-CR-175382] 09 p1267 N84-18270
Space Station needs, attributes and architectural options: Summary briefing
[NASA-CR-173328] 09 p1267 N84-18271
Space station needs, attributes and architectural options study. Briefing material: Final review and executive summary
[NASA-CR-173321] 09 p1267 N84-18273
Space Station needs, attributes, and architectural options study
[NASA-CR-173327] 09 p1267 N84-18274
Space station needs, attributes and architectural options. Summary of major study activities and results. Space station program observations
[NASA-CR-173345] 09 p1267 N84-18275
Space station needs, attributes and architectural options. Volume 4, attachment 1: Task 2 and 3 mission implementation and cost
[NASA-CR-173330] 09 p1269 N84-18290
Space station needs, attributes and architectural options. Volume 1, attachment 1: Executive summary NASA
[NASA-CR-173337] 09 p1270 N84-18293
Space station needs, attributes and architectural options. Volume 1, attachment 2: Supporting data and analysis reports
[NASA-CR-173336] 09 p1270 N84-18294
Space Station needs, attributes and architectural options. Volume 2, book 1, part 1: Mission requirements
[NASA-CR-173312] 09 p1270 N84-18296
Space Station needs, attributes and architectural options. Volume 2, book 1, part 2, task 1: Mission requirements
[NASA-CR-173313] 09 p1270 N84-18297
Space Station needs, attributes and architectural options. Volume 2, book 1, part 3: Manned Space Station relevance to commercial telecommunications satellites
[NASA-CR-173314] 09 p1270 N84-18298
Space Station needs, attributes and architectural options. Volume 2, book 1, part 4: Payload element mission data sheets
[NASA-CR-173315] 09 p1270 N84-18299
Space Station needs, attributes and architectural options. Volume 2, book 2, part 2, Task 2: Information management system
[NASA-CR-173317] 09 p1271 N84-18301
Space Station needs, attributes and architectural options. Volume 2, book 2, part 3: Communication system
[NASA-CR-173318] 09 p1271 N84-18302
Space Station needs, attributes and architectural options, volume 2, book 3: Cost and programmatics
[NASA-CR-173320] 09 p1271 N84-18304
Spacelab data book
[ESA-BR-14] 09 p1273 N84-18315
Spaceborne Gravity Gradiometers. Part 2: Role of gravity gradiometers in NASA's programs
09 p1335 N84-18718
Spaceborne Gravity Gradiometers. Part 5: Development plan 09 p1336 N84-18721
Dynamic sequence assignment
[AD-A136548] 09 p1384 N84-19037
Astronomical and statistical algorithms used in the Space Telescope guide star selection system
09 p1409 N84-19206
The integrated mission-planning station: Functional requirements, aviator-computer dialogue, and human engineering design criteria
[AD-A136909] 10 p1430 N84-19352
Definition of technology development missions for early space stations orbit transfer vehicle serving. Phase 2, task 1: Space station support of operational OTV servicing
[NASA-CR-170984] 10 p1434 N84-19377
A semianalytic method of orbital propagation for mission analysis
[INPE-2748-PRE/324] 10 p1435 N84-19380
Civil space station
[S-REPT-98-523] 11 p1621 N84-20613
Titan exploration with advanced systems. A study of future mission concepts
[NASA-CR-173499] 13 p1936 N84-22593
Use of helicopters to develop operational concepts for V/STOL (vertical and short takeoff and landing) aircraft in naval missions
[AD-A139354] 14 p2105 N84-23624
Preliminary airworthiness evaluation of the Rutan Aircraft Factory (RAF), Incorporated LONG-EZ airplane
[AD-A140765] 17 p2606 N84-26695
Space Station commercial user development
[NASA-CR-173688] 18 p2798 N84-27756
Space station needs, attributes, and architectural options: Technology development
[NASA-CR-173697] 18 p2803 N84-27789

Space station needs, attributes, and architectural options: Brief analysis
[NASA-CR-173695] 18 p2803 N84-27791
Space station needs, attributes and architectural options: Midterm main briefing
[NASA-CR-173687] 18 p2803 N84-27792
Space station needs, attributes, and architectural options: Mission requirements
[NASA-CR-173693] 18 p2804 N84-27794
Space station needs, attributes and architectural options study. Volume 7-1: Data book. Science and applications missions
[NASA-CR-173702] 18 p2804 N84-27795
Space station needs, attributes and architectural options study. Volume 7-2: Data book. Commercial missions
[NASA-CR-173719] 18 p2804 N84-27797
Space station needs, attributes and architectural options study
[NASA-CR-173699] 18 p2804 N84-27796
Space station needs, attributes and architectural options study. Volume 7-5A: Data book. Mission analysis part A
[NASA-CR-173701] 18 p2805 N84-27801
Space station needs, attributes and architectural options study. Volume 7-5B: Data book. Mission analysis part B
[NASA-CR-173711] 18 p2805 N84-27802
A study of space station needs, attributes and architectural options. Volume 1: Executive summary
[NASA-CR-173705] 18 p2805 N84-27803
A study of space station needs, attributes and architectural options. Midterm briefing, executive summary
[NASA-CR-173446] 18 p2805 N84-27808
A study of space station needs, attributes and architectural options. Final briefing: Cost working group discussion session
[NASA-CR-173713] 18 p2806 N84-27810
Space station needs, attributes and architectural options. Volume 3, task 1: Mission requirements
[NASA-CR-173712] 18 p2806 N84-27811
Space station needs, attributes and architectural options. Volume 3, attachment 1, task 1: Mission requirements
[NASA-CR-173716] 18 p2806 N84-27812
Space station needs, attributes and architectural options. Volume 4, task 2 and 3: Mission implementation and cost
[NASA-CR-173715] 18 p2806 N84-27813
Space station needs, attributes and architectural options: Study summary
[NASA-CR-173692] 18 p2806 N84-27814
Space station: Cost and benefits
[NASA-CR-173718] 18 p2806 N84-27815
Space station needs, attributes, and architectural options. Volume 1. Executive summary
[NASA-CR-173710] 18 p2806 N84-27816
Space station needs, attributes and architectural options: Mission requirements
[NASA-CR-173691] 18 p2806 N84-27817
Space station needs, attributes and architectural options: Midterm review, executive overview
[NASA-CR-173707] 18 p2806 N84-27818
Deputy flight director Blagov on 211-day flight of Berezovoy and Lebedev 19 p2971 N84-28834
Repairing Solar Max: The Solar Maximum Repair Mission
[NASA-EP-205] 19 p2979 N84-28883
Weight characteristics of future spacecraft thermal management systems
[AD-A141403] 19 p2982 N84-28895
Space Station Systems Analysis Study. Volume 1: Executive summary, part 1 and 2
[NASA-CR-161590] 21 p3352 N84-31263
Space Station Systems Analysis Study. Volume 2: Program review report
[NASA-CR-161231] 21 p3352 N84-31264
A study of space station needs, attributes and architectural options
[NASA-CR-173997] 24 p3859 N84-34459
Sensor studies and space flight opportunities 24 p3933 N84-34896
On Mars: Exploration of the red planet, 1958 - 1978
[NASA-SP-4212] 24 p3990 N84-35248
Viking lander: Building a complex spacecraft 24 p3991 N84-35256

MISSIONS
Computer aided construction of ground attack mission profiles over European terrain 06 p0772 N84-15060

MISSISSIPPI
Progress in the scene-to-map registration investigation 03 p0394 N84-12572
Prototype tidal data analysis for Mississippi Sound and adjacent areas
[AD-A134071] 06 p0883 N84-15744
Application of remote sensing to state and regional problems
[E84-10128] 14 p2168 N84-23986

MISSISSIPPI DELTA (LA)
Ecological models of the Mississippi Deltaic Plain Region: Data collection and presentation
[PB83-239012] 02 p0245 N84-11604

MISSISSIPPI RIVER (US)
Application of remote sensing to state and regional problems
[E84-10128] 14 p2168 N84-23986

MISSOURI
Structure of the Saint Francois Mountains and surrounding lead belt, south east Missouri: Inferences from thermal IR and other data sets
[E84-10027] 01 p0099 N84-10645

MISSOURI RIVER BASIN (US)
Water resources data for Montana, water year 1982. Volume 1: Hudson Bay Basin, Missouri River Basin
[PB84-117506] 09 p1339 N84-18749

MITOCHONDRIA
Carboxylic acid ionophores as probes of the role of calcium in biological systems 02 p0264 N84-11735
Oxygen insufficiency and energy failure in brain: Uncoupling of oxidative phosphorylation at low oxygen concentration 05 p0714 N84-14681

MITOSIS
Calcium and mitosis 02 p0262 N84-11722
Role of calmodulin in cell proliferation 02 p0264 N84-11737

MIXED CRYSTALS
Crystalline photoconductive films for electrophotographic recording
[BMFT-FB-T-84-099] 21 p3408 N84-31614

MIXED FLOW
U MULTIPHASE FLOW

MIXED OXIDES
Preparation of mixed perovskite oxides for blue-green lasers
[AD-A142195] 19 p3111 N84-29768

MIXERS
Further development of a method for computing three-dimensional subsonic viscous flows in turbofan lobe mixers
[NASA-CR-168304] 05 p0679 N84-14462
Development of innovative millimeter-wave broadband mixers
[AD-A136134] 09 p1310 N84-18562
Active mixer with dual gated FET
[INPE-2744-TDL/135] 10 p1484 N84-19704
Topics in the optimization of millimeter-wave mixers
[NASA-TP-2287] 11 p1645 N84-20758
On-site survey and analysis of pyrotechnic mixer bays
[AD-A139485] 14 p2132 N84-23779

MIXING
NT COLLOIDING
NT DISSOLVING
NT HOMOGENIZING
NT LAMINAR MIXING
NT PREMIXING
NT SIGNAL MIXING
NT SUSPENDING (MIXING)
NT TURBULENT MIXING
Effect of modifying additives on the properties of polymer blends
[CSIR-1690] 01 p0049 N84-10313
A study of air-pollution mixing heights and atmospheric turbulence over New York City, data report
[DE83-010624] 02 p0244 N84-11596
Proceedings of the Workshop on Ion Mixing and Surface Layer Alloying
[AD-A131469] 02 p0289 N84-11895
Experiments on mixing and combustion with low heat release in a turbulent shear flow 04 p0531 N84-13489
Computation of turbulent reacting flows: Comparison of various mixing/chemistry interaction models
[DE84-000998] 04 p0534 N84-13514
Homogenizing properties of diblock polymers in blends of corresponding homopolymers
[AD-A132832] 05 p0659 N84-14334
Atomization and mixing study
[NASA-CR-170943] 06 p0834 N84-15428
Northeast Scotland coastal field guide and geographical essays
[AD-A134861] 08 p1178 N84-17674
The retrieval of atmospheric constituent mixing-ratio profiles from solar absorption spectra
[NASA-CR-173303] 08 p1186 N84-17730
S-I-S mm-wave mixers and detectors
[AD-A134762] 08 p1235 N84-18074
Review of the use of the thermodynamic diagram and its functions (with the application towards AFOS)
[PB84-120815] 09 p1350 N84-18822
An empirical method for predicting the mixing noise levels of subsonic circular and coaxial jets
[NASA-CR-3786] 09 p1385 N84-19048
A parametric study of ramrocket performance
[ARL-MECH-ENG-NOTE-395] 11 p1625 N84-20833
Study of large-scale mixing in developing wakes behind streamlined bodies
[NASA-CR-173478] 12 p1766 N84-21517
Stratospheric tritium sampling
[DE84-006074] 12 p1843 N84-22045
On the separation of alloys exhibiting a miscibility gap 17 p2612 N84-26720
Effect of shroud geometry on the effectiveness of a short mixing stack gas eductor model
[AD-A132173] 18 p2836 N84-28004
Ion implantation, ion beam mixing and annealing studies of metals in Al2O3, SiC and Si3N4
[DE84-012336] 20 p3157 N84-30052
Hydrogen transport, mixing, and combustion studies
[DE84-012455] 21 p3360 N84-31317

MIXING CIRCUITS
The effects of acoustic excitation on the mixing of two parallel laminar streams of fluid
[AD-A126786] 06 p0843 N84-15502
A study of microwave and millimeter-wave quasi-optical planar mixers
[AD-A135252] 08 p1144 N84-17443
Application of noise waves and scattering/scattering-transfer matrices for noise analysis of microwave mixers
[REPT-S-137] 09 p1305 N84-18529
Approaching noise performance limits of Schottky-barrier mixers at millimeter waves
[REPT-S-134] 09 p1310 N84-18567
Spectral line receiver for 80-90 GHz designed at the Helsinki University of Technology 09 p1413 N84-19243
Peculiarities of minimization of mixer noise factor 17 p2635 N84-26858
Research in millimeter wave techniques
[NASA-CR-173964] 24 p3893 N84-34655

MIXING LENGTH FLOW THEORY
Turbulence modelling: A state-of-the-art review
[CFD/83/3] 03 p0374 N84-12435
Computing the three dimensional boundary layer in a compressor 07 p0956 N84-16200
Hot-flow tests of a series of 10-percent-scale turbofan forced mixing nozzles
[NASA-TP-2268] 08 p1156 N84-17525
Model calculations for a CO2 mixing laser with screen nozzle
[DFVLR-FB-83-41] 15 p2339 N84-25039
Mixing-length formulations for turbulent boundary layers over arbitrarily rough surfaces
[AD-A140560] 17 p2667 N84-27009

MIXTURES
NT ADMIXTURES
NT AEROSOLS
NT AQUEOUS SOLUTIONS
NT BINARY FLUIDS
NT BINARY MIXTURES
NT COLLOIDS
NT DETONABLE GAS MIXTURES
NT DISPERSIONS
NT EMULSIONS
NT EUTECTIC ALLOYS
NT EUTECTICS
NT EXPIRED AIR
NT FOG
NT GADOLINIUM ALLOYS
NT GAS MIXTURES
NT LIQUID-GAS MIXTURES
NT METAL MATRIX COMPOSITES
NT PHOTOGRAPHIC EMULSIONS
NT SIALON
NT SLURRIES
NT SMOKE
NT SOLID SOLUTIONS
NT SOLID SUSPENSIONS
NT SOLUTIONS
The detection of signals in impulsive noise
[AD-A130393] 01 p0062 N84-10409
Growth and decay of one-dimensional shock waves in chemically reacting multiphase mixtures
[DE83-011134] 01 p0080 N84-10519
Minimum distance estimation of mixture model parameters: Asymptotic results and simulation comparisons with maximum likelihood
[AD-A130426] 01 p0136 N84-10889
Molecular basis for local compositions in liquid-mixture models
[DE83-016604] 04 p0495 N84-13250
Investigation of sources, properties and preparation of distillate test fuels
[NASA-CR-168227] 04 p0508 N84-13332

Solubility of the NiO fuel-cell cathode in Li2CO3 melts as determined by cyclic voltammetry
[DE83-014311] 04 p0530 N84-13485
Small-angle X-ray scattering study of micelle formation in mixtures of butadiene homopolymer and styrene-butadiene block copolymer
[AD-A133645] 05 p0659 N84-14330
Measured Hugoniot states of a 2-element fluid, O-2 + N sub 2 prime, near 2 Mg/m-3
[DE83-015910] 05 p0662 N84-14349
Sputtering of multicomponent materials
06 p0816 N84-15312
Process for isotope separation
[DE84-001983] 06 p0844 N84-15507
Thermophysical properties of gaseous carbon dioxide/water mixtures
[PB84-125228] 06 p1127 N84-17330
Conformal solution methods based on the hard convex body expansion theory, section 1
[PB84-100940] 06 p1128 N84-17332
Diffusion of gases in porous solids: Simulations and measurements
[DE84-004146] 10 p1494 N84-19771
Synfuel modified diesel
[DE84-002189] 10 p1502 N84-19819
Ring tensile test of modified Halthane 88-2
[DE84-005891] 12 p1802 N84-21750
A new method for obtaining individual component spectra from those of complex mixtures
[AD-A139262] 14 p2122 N84-23719
Flame propagation in heterogeneous mixtures of fuel drops and air
[NASA-CR-174644] 14 p2131 N84-23775
Inner-sphere reorganization in optical electron transfer
[AD-A139722] 15 p2405 N84-25435
Passage of waves in fluids through damping interlayers and their interaction with barrier
17 p2647 N84-26934
Gas-liquid correlation of ionization energies
[AD-A141255] 18 p2930 N84-28578
Hard metal composition
[DE84-011034] 20 p3156 N84-30040
Effect of polydispersity on the cloud point curves of polymer mixtures
[AD-A143159] 21 p3370 N84-31384
New approach to the effective stress principle
[DE84-008963] 21 p3401 N84-31574
Multivariate curve resolution in liquid chromatography
[DE84-013797] 22 p3549 N84-32466
Pastes of superhard materials (review of inventions)
[CSIR-TRANS-1741] 22 p3552 N84-32491

MLA
U MULTISPECTRAL LINEAR ARRAYS

MMS
U MULTIMISSION MODULAR SPACECRAFT

MNOS
U METAL-NITRIDE-OXIDE-SILICON

MOBILE COMMUNICATION SYSTEMS
NT LAND MOBILE SATELLITE SERVICE
Aerials for use in television outside broadcasts
[BBC-RD-1983/12] 05 p0665 N84-14373
Advanced teleprocessing systems
[AD-A133554] 06 p0825 N84-15377
Implementing new technology in the land mobile radio services
[PB84-101591] 06 p1148 N84-17472

MOBILITY
NT ELECTRON MOBILITY
NT IONIC MOBILITY
Mobility of organic complexes of nickel and cobalt in soils
[DE83-017897] 04 p0564 N84-13720
The Stanford cart and the CMU Rover
[NASA-CR-174502] 06 p0893 N84-15803
Amplitude Compandored Sideband compared to conventional frequency modulation for VHF mobile radio: Laboratory and field testing results
[PB84-116383] 06 p1148 N84-17474
Reduced grain boundary mobility and the sintering of molybdenum
[AD-A140265] 16 p2469 N84-25823
Mobility and molecular ions of dimethyl methyl phosphonate, methyl salicylate and acetone
[AD-A140328] 16 p2555 N84-26395
Leakage currents in degraded multi-layer ceramic capacitors
[AD-A140157] 17 p2662 N84-26985
Laser Doppler spectroscopy of biological objects
17 p2742 N84-27408
Organophosphorus selective ion mobility spectrometer
[AD-D011010] 19 p3027 N84-29196
Navy mobility fuels evaluation
[AD-A144171] 24 p3690 N84-34630

MODAL RESPONSE
Experimental determination of the particle motions associated with the low order acoustic modes in enclosures
[NASA-CR-174542] 02 p0287 N84-11882
Experimental study of active vibration control
[AD-A133818] 05 p0692 N84-14546
Multishaker modal testing
[NASA-CR-170952] 06 p0847 N84-15521
Digital multishaker modal testing
[NASA-CR-170951] 06 p0847 N84-15522
A NASTRAN DMAP procedure for calculation of base excitation modal participation factors
06 p0859 N84-15599
IMAGES: A digital computer program for interactive modal analysis and gain estimation for eigensystem synthesis
[NASA-TM-85690] 06 p1105 N84-17186
Component mode synthesis and large deflection vibrations of complex structures — beams and trusses
[NASA-CR-173336] 09 p1329 N84-18680
Modal deformations and stresses — modal coupling methods
[ED-81-343/RD] 09 p1334 N84-18712
Polyreference software
[NASA-CR-170981] 09 p1366 N84-18918
Dual correlated random excitation technique for modal testing
[NAL-TR-762] 09 p1372 N84-18962
Dynamic simulation of structural systems with isolated nonlinear components 10 p1510 N84-19885
On the modal identification of multiple degree of freedom systems from experimental data
10 p1511 N84-19887
Application of the kinetic energy calculation as an aid in mode identification 10 p1511 N84-19888
Study of analysis methods concerning launch vehicle and spacecraft structural interaction
[ED-80-295] 12 p1778 N84-21605
Development of procedures for component mode synthesis
[DFVLR-IB-232-82-C-09] 12 p1782 N84-21626
Technique for modal data acquisition in remote locations using hand portable instrumentation
[DE84-005755] 12 p1819 N84-21854
Developments in structural vibration testing methods
16 p2476 N84-25874
Mathematical modelling of a continuum. Related modal analysis. Volume 2: User's manual
[ESA-CR(P)-1862-VOL-2] 16 p2553 N84-26379
Experimental modal analysis of a partial full-scale fuselage of turboprop aircraft — vibration modes
18 p2794 N84-27732
VIBRA: An interactive computer program for steady-state vibration response analysis of linear damped structures
[NASA-TM-85789] 18 p2852 N84-28112
Bond graph time simulations using extracted modal parameters from the Nova spaceframe
[DE84-010918] 20 p3273 N84-30779
The Shock and Vibration Digest, volume 16, no. 4
[AD-A141077] 21 p3418 N84-31676

MODE (STATISTICS)
Quality control and sample comparison by differential modal analysis
[MBB-BB-543-83-OE] 03 p0386 N84-12514
Guide to transform software for nonlinear normal-mode initialization of the NCAR community forecast model
[PB84-119130] 09 p1350 N84-18820

MODE COUPLING
U COUPLED MODES

MODE OF VIBRATION
U VIBRATION MODE

MODE SHAPES
U MODAL RESPONSE

MODE TRANSFORMERS
Transmission line transformers; theory and design data
[FOA-C-30327-E] 08 p1152 N84-17503

MODELS
NT AIRCRAFT MODELS
NT ANALOG SIMULATION
NT ASTRONOMICAL MODELS
NT ATMOSPHERIC MODELS
NT BIOLOGICAL MODELS (MATHEMATICS)
NT BREADBOARD MODELS
NT DIGITAL SIMULATION
NT DYNAMIC MODELS
NT ENVIRONMENT MODELS
NT HYDROLOGY MODELS
NT MATHEMATICAL MODELS
NT NUCLEAR MODELS
NT OCEAN MODELS
NT QUARK PARTON MODEL
NT REFERENCE ATMOSPHERES
NT SCALE MODELS
NT SEMISPAN MODELS
NT SPACECRAFT MODELS
NT STATIC MODELS
NT STELLAR MODELS
NT THOMAS-FERMI MODEL
NT VECTOR DOMINANCE MODEL
NT WIND TUNNEL MODELS
Emergency evacuation flow models
04 p0512 N84-13360
The use of cyclone modeling in the erection of precast segmental aerial construction
[AD-A132865] 05 p0663 N84-14358
Microwave dielectric constant dependence on soil tension
[AD-A134651] 08 p1178 N84-17673
Risk models for risk distance prediction during release of toxic industrial chemicals caused by acts of war
[FOA-C-40165-C2(H2)] 08 p1183 N84-17707
Development of ultrasonic modeling techniques for the study of crustal inhomogeneities
[AD-A134501] 08 p1187 N84-17738
The C-squared system: A general-purpose neuron network model
[AD-A136191] 09 p1304 N84-18524
Development of fatigue and crack propagation design and analysis methodology in a corrosive environment for typical mechanically-fastened joints. Volume 2: State-of-the-art assessment
[AD-A136415] 09 p1331 N84-18692
Manufacturing information system
[AD-A137891] 11 p1641 N84-20730
Structural variation of proterozoic dikes in central Superior Province: A possible reflection of post-Archean shield deformation 11 p1678 N84-20954
Global energy and CO2-induced climate change
[PB84-145895] 12 p1862 N84-22131
A geometric modeler based on a dual-geometry representation polyhedra and rational b-splines
12 p1869 N84-22181
Solid modelling: History, status and current research directions 12 p1870 N84-22187
Solid modelling in the Department of Energy
12 p1870 N84-22188
The representation of manipulable solid objects in a relational database 12 p1871 N84-22190
A comparison of two air defense command and control models
[AD-P002876] 13 p1977 N84-22837
Air Weather Service model output statistics systems
[AD-A139129] 14 p2179 N84-24053
Stratigraphy of the crater Copernicus
15 p2426 N84-25571
F-14 modeling study
[NASA-CR-172336] 16 p2448 N84-25701
Nova Aquilae 1982: The nature of its dust
16 p2572 N84-26504
New infrared observations of IRS1, IRS3 and the adjacent nebula in the OMC-2 cluster
16 p2572 N84-26506
The near infrared polarization of NGC 7023
16 p2572 N84-26508
Seismic model of Earth's crust in southern Sea of Okhotsk region and some results of its geological inerpretation 17 p2701 N84-27207
Method for evaluating parameters of magnetized object of great horizontal extent 17 p2705 N84-27229
Modeling anisotropic properties of media with oriented fractures 17 p2706 N84-27234
Procedures for dealing with seismically induced settlements
[AD-A140775] 17 p2728 N84-27361
Biofeedback methods and quality of operator's performance 17 p2740 N84-27399
Injection currents in GaAs triple crystals
18 p2825 N84-27937
To the wilderness and beyond: The application of a model for transformal change
[AD-P003249] 18 p2904 N84-28416
Affective determinants of job perceptions
[AD-P003258] 18 p2905 N84-28425
A computer simulation to predict target identification latencies
[AD-P003272] 18 p2907 N84-28437
The limits of multiple resource theory in display formatting: Effects of task integration
[AD-P003321] 18 p2910 N84-28457
Development of an AFIT (Air Force Institute of Technology) ADP system network model
[AD-A141253] 18 p2917 N84-28496
Hydrographic data from the OPTOMA (Ocean Prediction Through Observations, Modeling and Analysis) program OPTOMA2, legs I and II, 31 July - 14 August, 1982
[AD-A141547] 19 p3061 N84-29424
Flow of foam through porous media
[DE84-012410] 20 p3186 N84-30246

Update: San Andreas Fault experiment
20 p3220 N84-30456
Computer science and technology: Report on approaches to database translation
[NBS-SP-500-115] 20 p3268 N84-30739
Approximation models for electrodynamic systems in solid state millimetric wave devices
22 p3569 N84-32606
Mechanisms involved in the glow-discharge deposition of doped hydrogenated amorphous silicon
[DE84-013124] 22 p3665 N84-33236
Model for GCR-particle fluxes in stony meteorites and production rates of cosmogenic nuclides
[NASA-CR-173923] 22 p3679 N84-33321
Speech communication 22 p3684 N84-33358
Process modeling of sheet metal forming of general shapes by the finite element method based on large strain formulation 23 p3716 N84-33557
Methodology for software maintenance
[AD-A143763] 23 p3815 N84-34192

MODEMS
A carrier recovery closed loop implementation in high velocity PSK modems by digital techniques — (feedback control)
[INPE-2822-PRE/376] 02 p0208 N84-11355
Type KODEK DC modems for use in CYFRONET terminal network
[AD-A131057] 02 p0213 N84-11393
Telecommunications (selected articles)
[AD-A131872] 03 p0361 N84-12346
Digital transponder (14/11 GHz, 120 Mbit/sec.). Phase 1: Preinvestigation and modem development
[BMFT-FB-W-83-019] 07 p0995 N84-16449
Carrier recovery methods for a dual-mode modem: A design approach
[NASA-CR-173355] 10 p1432 N84-19360
Multipath link and modem design for satellite mobile communications
[ESA-CR(P)-1833] 12 p1809 N84-21793
Performance assessment of Serial Minimum Shift Keying (SMSK) modulation technique. Volume 1: Executive summary
[ESA-CR(P)-1840-VOL-1] 12 p1809 N84-21796
Performance assessment of Serial Minimum Shift Keying (SMSK) modulation technique, volume 2
[ESA-CR(P)-1840-VOL-2] 12 p1809 N84-21797
Design considerations for a monolithic, GaAs, dual-mode, QPSK/QASK, high-throughput rate transceiver
[NASA-CR-173560] 15 p2327 N84-24974

MODERATION (ENERGY ABSORPTION)
NT THERMALIZATION (ENERGY ABSORPTION)

MODES
NT AXIAL MODES
NT COUPLED MODES
NT FAILURE MODES
NT LASER MODES
NT PROPAGATION MODES
NT PUSHBROOM SENSOR MODES
NT VIBRATION MODE
On the identification of normal modes of oscillation from observations of the solar periphery
[NASA-CR-173667] 19 p3123 N84-29844
Dynamic synthesis and evaluation of spacecraft structures
[ESA-STR-208] 20 p3135 N84-29904
The 3-D MHD stability of high-beta free-boundary Tokamak plasmas with finite edge-pressure-gradient and limiter stabilization
[DE84-009188] 20 p3303 N84-30976
Investigation of role of subsurface zones in wear of materials
[DE84-012752] 21 p3368 N84-31365
Operating modes of superconducting current converters in service 21 p3379 N84-31445
Normal modes of the NCAR (National Center for Atmospheric Research) Community Forecast Model (CFM)
[PB84-191220] 22 p3642 N84-33094
Numerical studies of baroclinic instability at small Richardson number 24 p3924 N84-34834
Laboratory studies of baroclinic instability at small Richardson number 24 p3924 N84-34835

MODIFICATION
U REVISIONS

MODULATION
NT AMPLITUDE MODULATION
NT DELTA MODULATION
NT DIFFERENTIAL PULSE CODE MODULATION
NT FEEDBACK FREQUENCY MODULATION
NT FREQUENCY MODULATION
NT FREQUENCY SHIFT KEYING
NT INTERMODULATION
NT LIGHT MODULATION
NT PHASE MODULATION
NT PHASE SHIFT KEYING
NT PULSE CODE MODULATION
NT PULSE DURATION MODULATION
NT PULSE MODULATION
NT PULSE POSITION MODULATION
New soluble approximation to Fokker-Planck equations
[DE83-016210] 03 p0426 N84-12791
The effect of the solar field reversal on the modulation of galactic cosmic rays 03 p0471 N84-13101
Investigation on low pressure limit of Bayard-Alpert gauge
[DE84-002578] 05 p0685 N84-14502
Interplanetary flow systems associated with cosmic ray modulation in 1977 - 1980
[NASA-TM-85120] 06 p1246 N84-18149
Rapporteur paper for sessions MG1, MG3 and MG4: Modulation theory, interplanetary propagation and interplanetary acceleration
[NASA-TM-86047] 08 p1247 N84-18150
Modulation of cosmic rays with particular reference to the Hermanus neutron monitor
09 p1344 N84-18780
Evaluation of instrument landing system DDM (Difference in Depth of Modulation) calibration accuracies
[AD-A136301] 12 p1768 N84-21533
Satellite Data Transmission (SDT) requirement
[NASA-CR-175231] 15 p2319 N84-24920
Effects of NRZ-M modulation on convolutional codes performance 16 p2479 N84-25894
On the detection of underwater bottom topography by imaging radars 17 p2718 N84-27301
INTERMD: A computer program to predict intermodulation product generation on two-way FM radio frequencies
[DE84-013767] 22 p3578 N84-32661
Air modulation apparatus
[NASA-CASE-LEW-13524-1] 23 p3694 N84-33410
Nonlinear temporal modulation of pulsar radioemission
[INPE-3272-PRE/597] 24 p3995 N84-35282
Large scale solar modulation of 500 MeV/N galactic cosmic rays seen from 1-30 AU
[NASA-CR-173993] 24 p3995 N84-35283

MODULATION TRANSFER FUNCTION
LANDSAT-4 thematic mapper Modulation Transfer Function (MTF) evaluation
[E84-10014] 02 p0238 N84-11552
The dependance of the radar modulation transfer function on environmental conditions and wave parameters (A contribution to studies of radar backscattering from the sea surface). Revision
[AD-A133064] 05 p0670 N84-14408
MTF analysis of LANDSAT-4 Thematic Mapper
20 p3209 N84-30388
LANDSAT-4 Thematic Mapper Modulation Transfer Function (MTF) evaluation — San Matteo Bridge and Stockton, California
[E84-10188] 21 p3430 N84-31759
The modification of the modulation transfer function by sea slicks measured by L-band radar
23 p3780 N84-33971

MODULATORS
NT MODEMS
Analysis of a delayed delta modulator
[AD-A131208] 02 p0262 N84-11845
The effect of pulse current on the electrical strength of high-voltage modulator tubes
[AD-A136489] 09 p1307 N84-18544
A new multifunction acousto-optic signal processor
12 p1906 N84-22413
Navigation system and method
[NASA-CASE-GSC-12508-1] 13 p1929 N84-22546
Incorporation of a PROM spatial light modulator into a system for automatic target recognition and tracking — Pockels Readout Optical Modulator (PROM)
[BAE-BT-12841] 13 p2042 N84-23250
Design considerations for a monolithic, GaAs, dual-mode, QPSK/QASK, high-throughput rate transceiver
[NASA-CR-173560] 15 p2327 N84-24974
Equipment for measuring the distance of satellite in low orbit
[INPE-3126-PRE/517] 16 p2455 N84-25739
Solar energy modulator
[NASA-CASE-NPO-15388-1] 18 p2867 N84-28203
Universal control grid modulator
[AD-D011108] 22 p3580 N84-32672
FM synthesizer-modulator with 1200 channels for SCPC transmission of voice signals by satellite — single channel per carrier transmission
[INPE-2815-PRE/371] 23 p3730 N84-33638
FET switching regulator
[AD-D011146] 23 p3735 N84-33665
Distributed pulse forming network for magnetic modulator
[AD-D011062] 23 p3791 N84-34041

MODULATORS-DEMODULATORS
U MODEMS

MODULES
NT AIRLOCK MODULES
NT ELECTRONIC MODULES
NT PAYLOAD ASSIST MODULE
NT POWER MODULES (STS)
NT SERVICE MODULES
NT SPACECRAFT DOCKING MODULES
NT SPACECRAFT MODULES
Marine manganese accretions: Nodule micronodule comparisons among major ocean basins
02 p0257 N84-11683
Analysis of the world distribution of metal-rich subsea manganese nodules
[USGS-CIRC-866] 03 p0395 N84-12577
Manned flight chronology 05 p0633 N84-14180
Critical factors and operational research in tactical fighter avionic system development 06 p0773 N84-15062
Design and development of low cost photovoltaic concentrator modules
[DE84-003150] 07 p1026 N84-16649
Synthesis of multiple-valued logic functions based on a modular design approach
[AD-P002378] 14 p2195 N84-24189
Materials, Processes and Testing Laboratory. Summarizing module performance at MIT Lincoln Laboratory experimental photovoltaic test sites, 1977 - 1982
[DOE/ET-20279/186] 16 p2512 N84-26122
Dynamic module replacement in a distributed programming system
[AD-A140619] 17 p2752 N84-27469
APL/JHU free flight tests of the general purpose heat source module. Testing: 5-7 March 1984
[DE84-011065] 20 p3299 N84-30948
Increased readiness through modularity
[AD-P003491] 21 p3514 N84-32257
A review and summary of cell and module mismatch losses from theoretical and experimental studies
22 p3583 N84-32689
Development of engineering prototype of Life Support Module (LSM)
[NASA-CR-171806] 22 p3633 N84-33023
EC 1027 computer system 24 p3960 N84-35075

MODULUS OF ELASTICITY
Study on strength, elastic modulus of artifical lightweight aggregate concrete
[PB83-224824] 01 p0059 N84-10389
Forced vibration of Timoshenko beams of multimodular materials
[AD-A130372] 01 p0095 N84-10617
Failure processes in elastomers at or near a rigid spherical inclusion
[AD-A132060] 03 p0356 N84-12314
An interactive computer program for analysis of ultrasonic modulus data on anistropic materials
[NPL-DMA(A)-68] 03 p0388 N84-12526
Effects of microstructure and pore fluids on the acoustic properties of granular materials
[AD-A131983] 03 p0408 N84-12668
The measurement of elastic constants for the determination of stresses by X-rays
[AD-A132330] 04 p0590 N84-13897
Elastic moduli of H2O: Liquid, ice 6 and ice 7
[DE83-017960] 05 p0652 N84-14264
A torsion testing machine for measurement of shear strength of foam
[AD-A133027] 05 p0693 N84-14552
Stiffness changes in unidirectional composites caused by crack systems
[CA-8311] 06 p0798 N84-15198
Metastable transition metal alloys produced by rapid quenching: Structure and properties
[AD-A136296] 12 p1798 N84-21729
Development of probabilistic rigid pavement design methodologies for military airfields
[AD-A138212] 12 p1804 N84-21760
Role of abrasion in the optical polishing of metals and glass
[DE84-005737] 13 p2043 N84-23259
Development of high modulus polydiacetylene fibres for use in fibre-reinforced composites
[AD-A140912] 17 p2627 N84-26809
Mechanical properties of silicone rubber in a closed volume
[AD-A138129] 18 p2818 N84-27890
Studies on the insulation effect of rubber springs in complex structures in the acoustic frequency range
[BMFT-FB-HA-84-001] 19 p3037 N84-29264

MOHAWK AIRCRAFT
U OV-1 AIRCRAFT

MOHR CIRCLES
U FRACTURE MECHANICS

MOIRE EFFECTS
Holographic FLI for detection of defects
[AD-A142733] 20 p3189 N84-30258
MOIRE FRINGES
Strain analysis of thin composites with Moire method
[NAL-TR-754] 04 p0548 N84-13612
Creep deformation measurement of polymer strips after buckling by Moire method
[NAL-TR-769] 16 p2501 N84-26055
MOIRE INTERFEROMETRY
Holographic FLI (Fringe Linearization Interferometry) for detection of defects
[AD-A135663] 09 p1318 N84-18612
An integral optical method for determining stress intensity factors 15 p2311 N84-24866
MOISTURE
NT SOIL MOISTURE
Prestressed pavement accelerated testing program
[PB83-225763] 01 p0059 N84-10365
The effect of moisture on the properties of an aramid/epoxy composite
[AD-A131132] 02 p0188 N84-11222
Composite structural materials
[NASA-CR-174597] 03 p0347 N84-12257
The effect of moisture on the physical and durability properties of methyl methacrylate polymer concrete
[DE83-016733] 03 p0390 N84-12541
Bound and free moisture in explosives and plastics
[DE84-001402] 04 p0509 N84-13339
A composite analysis of a tropical squall-line system
04 p0565 N84-13727
Mesoscale moisture fields retrieved from satellite infrared radiances in nocturnal inversion cases
05 p0705 N84-14629
Finite element analysis of moisture and external loading effects in composites 06 p0799 N84-15211
A diagnostic case study of the effects of deep extratropical convection on the large-scale temperature and moisture structure 06 p0875 N84-15695
Meteorological applications library (CRH.LB)
[PB84-122639] 08 p1193 N84-17776
Durability and failure analyses of a silane treated Alpha-Al2O3/Polyethylene joint in wet environment
[AD-A136089] 09 p1333 N84-18705
Data documentation for the bare soil experiment at the University of Arkansas, June - August 1980
[NASA-CR-173325] 09 p1336 N84-18725
Determination of characteristic values for fiber reinforced materials — structural mechanics
10 p1452 N84-19481
Analysis and classification of mesoscale cloud and precipitation systems
[PB84-138999] 10 p1542 N84-20104
Role of soil moisture in maintaining droughts
12 p1859 N84-22110
Incorporation of remotely sensed soil moisture data into a hydrologic runoff model 13 p2007 N84-23017
Measurement of unsaturated flow below the root zone at an arid site
[DE84-006575] 15 p2359 N84-25158
The effects of moisture on fracture toughness and thermal relaxation of stretched acrylic plastics
[AD-P003197] 17 p2591 N84-26610
An investigation of chemically-induced improvement in saturation moisture characteristics of epoxies
[NASA-TM-85826] 18 p2809 N84-27834
Automated analysis of upper air soundings to specify precipitation type
[PB84-174333] 20 p3248 N84-30617
Application of finite element substructuring to composite micromechanics
[NASA-TM-83729] 21 p3356 N84-31288
Application of satellite data to tropic/subtropic moisture coupling 24 p3926 N84-34849
MOISTURE CONTENT
NT ATMOSPHERIC MOISTURE
Microwave radiometric sensitivity to soil moisture under vegetation cover 01 p0098 N84-10640
Cloud physics and nucleation theory: Revisions indicated by new measurements of the electrical conductivity of evaporation-humidified air
[AD-A130696] 01 p0106 N84-10703
Passive microwave sensing of soil moisture content: Soil bulk density and surface roughness
[E84-10019] 02 p0237 N84-11556
A study of Minnesota land and water resources using remote sensing
[E84-10023] 02 p0237 N84-11558
Snowpack ground-truth manual
[NASA-CR-170584] 02 p0239 N84-11569
Microwave nondestructive evaluation of composites
[DE84-001777] 04 p0547 N84-13601
Application of remote sensing to hydrological problems and floods
[E84-10046] 04 p0553 N84-13639
Coupled diffusion and deformation theory: Hygrothermal stress distribution around crack-like defects
05 p0694 N84-14558
Study of the combined use of data from satellite thermal infrared and microwave sensors for soil moisture detection
[PB83-252734] 05 p0698 N84-14582
The influence of the environment on the mechanical characteristics of composite materials: Design considerations — polymer matrix composites
[INTA-INFORME-I-1/221/720/83047]
06 p0811 N84-15281
Aerodynamics and steam wetness fraction of a multistage turbine. Comparison of prediction with experimental data 06 p0840 N84-15475
A generalized couple theory of hygrothermal-elasticity: Transient effects in composite laminate with circular cavity
[AD-A134376] 07 p0968 N84-16271
Case studies using GOES infrared data and a planetary boundary layer model to infer regional scale variations in soil moisture
[NASA-CR-173250] 07 p1022 N84-16631
Remote measurements of ozone, water vapor and liquid water content, and vertical profiles of temperature in the lower troposphere
[NASA-CR-173208] 07 p1033 N84-16704
Electro-optical transmission and liquid water content of fogs and clouds
[AD-A134307] 07 p1039 N84-16738
Use of microwaves to improve nutritional value of soybeans for future space inhabitants
[NASA-CR-175336] 07 p1051 N84-16805
Transport of water in frozen soil. I: Experimental determination of soil-water diffusivity under isothermal conditions
[AD-A135419] 08 p1177 N84-17671
Fatigue-induced and time-dependent changes in thermomechanical properties of hybrid composite laminates
[PB84-126333] 09 p1277 N84-18336
Meteorological Satellite Center Technical Note, no. 8, 1983
[ISSN-0388-9653] 09 p1346 N84-18796
A comparison of moisture and temperature fields derived from meteorological satellite vertical sounding (NOAA-TOVS) data with Rawinsonde data, part 2
09 p1347 N84-18798
Another look at the optimum frequencies for a water vapor radiometer 10 p1473 N84-19622
Inversion algorithms for water vapor radiometers operating at 20.7 and 31.4 GHz
10 p1473 N84-19623
Reflectance measurements of cotton leaf senescence altered by mepiquat chloride
[E84-10089] 10 p1521 N84-19960
Accomplishments of the NASA Johnson Space Center portion of the soil moisture project in fiscal year 1981
[E84-10090] 10 p1521 N84-19961
Longitudinal waterblocking performance of conductive and non-conductive waterswellable nonwovens
11 p1721 N84-21225
Moisture and temperature effects on the mixed-mode delamination fracture of unidirectional graphite/epoxy
[DREP-TM-83-22] 12 p1789 N84-21665
Remote sensing of agricultural crops and soils
[E84-10107] 12 p1829 N84-21925
Evaluation of a native vegetation masking technique
[E84-10108] 12 p1829 N84-21926
Intercepted photosynthetically active radiation estimated by spectral reflectance — Phoenix, Arizona
[E84-10109] 12 p1829 N84-21927
Measuring and modeling of the dielectric properties and attenuation of vegetation 12 p1832 N84-21940
A statistical method to sense sea surface temperature from the Nimbus-7 scanning multichannel microwave radiometer 12 p1835 N84-21964
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA-CASE-NPO-15494-2] 13 p1993 N84-22935
CONSERVB: A numerical method to compute soil water content and temperature profiles under a bare surface
[E84-10113] 13 p2005 N84-23006
A statistical evaluation and comparison of VISSR Atmospheric Sounder (VAS) data and corresponding rawinsonde measurements
[NASA-TM-82575] 13 p2016 N84-23071
Evolution of the Uranus-Neptune planetesimal swarm: Consequences for the Earth 13 p2074 N84-23445
Low Temperature Science. Series A: Physical Science
[ISSN-0439-3538] 15 p2352 N84-25112
Hardness of wet snow, 2 15 p2353 N84-25119
Microwave detection of surface and volume moisture in building walls and related structures
[CISE-2111] 16 p2481 N84-25912
Automatically equalizing fluid manometer combined with a computer
[ESA-TT-811] 16 p2496 N84-26015
The vertical profile of reflectivity as an indicator of the active regions in PEP experiment — Precipitation Enhancement Project (PEP) 18 p2887 N84-28320
Electro-optical transmission and liquid water content of fogs and clouds
[AD-A142294] 20 p3245 N84-30597
Analysis of moisture in solids: A review of the last decade or from Pande to the present
[DE84-011166] 21 p3362 N84-31326
Model cloud relationships
[AD-A142690] 21 p3447 N84-31871
Estimating net rainfall, evaporation and water storage of a bare soil from sequential L-band emissivities
23 p3769 N84-33889
Correlation of microwave sensor returns with soil moisture 23 p3770 N84-33897
Utilization of active microwave roughness measurements to improve passive microwave soil moisture estimates over bare soils 23 p3770 N84-33898
MOISTURE DETECTORS
U MOISTURE METERS
MOISTURE METERS
NT HYGROMETERS
NT PSYCHROMETERS
Study of the combined use of data from satellite thermal infrared and microwave sensors for soil moisture detection
[PB83-252734] 05 p0698 N84-14582
Moisture transport in composites during repair work
[AD-A138658] 13 p1954 N84-22703
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA-CASE-NPO-15494-2] 13 p1993 N84-22935
Analysis of moisture in solids: A review of the last decade or from Pande to the present
[DE84-011166] 21 p3362 N84-31326
MOISTURE RESISTANCE
Improved moisture resistance of fiber reinforced plastics
[AD-A132762] 05 p0659 N84-14333
Moisture resistant MoS2-based composite lubricant films 09 p1296 N84-18468
Process for improving moisture resistance of epoxy resins by addition of chromium ions
[NASA-CASE-LAR-13226-1] 11 p1636 N84-20700
MOLDAVITE
Etching of moldavites under natural conditions
[NASA-TM-77334] 05 p0764 N84-15014
Testing the authenticity of moldavite by electron microscopy
[NASA-TM-77335] 09 p1343 N84-18773
MOLDING MATERIALS
Reduction of heat insulation upon soaking of the insulation layer — hollow masonry
[BMFT-FB-T-83-193] 07 p1004 N84-16513
Technique for removing resin from a molded object
[NASA-TM-77240] 11 p1641 N84-20729
Recycling of duroplastic moulding materials hardened by dispersion by means of powdering and compounding new materials
[BMFT-FB-T-83-302] 15 p2301 N84-24811
Organic materials for ceramic molding processes
[NASA-TM-77438] 19 p2997 N84-28991
MOLDS
Numerical simulation of strongly non-isothermal compression molding flows 15 p2306 N84-24834
Organic materials for ceramic molding processes
[NASA-TM-77438] 19 p2997 N84-28991
Development of normalized operative mode for making deposits for chemical analysis in MIG/MAG welding
[CETIM-I.S.13.826] 21 p3362 N84-31331
MOLECULAR ABSORPTION
Altitudinal change in continuous absorption in atmospheric transparency window 8-12 microns
11 p1670 N84-20901
In-flight evaluation of 2 molecular sieve oxygen concentration systems in US Army aircraft (JUH-1H and JU-21G)
[AD-A140634] 17 p2748 N84-27443
Resonance absorption of narrow-band laser radiation by atmospheric gases 20 p3225 N84-30493
Raman and infrared spectroscopy of molecules adsorbed on metal electrodes
[AD-A143466] 22 p3547 N84-32454
Atmospheric effects on coherent lidar systems
24 p3924 N84-34839
MOLECULAR BEAM EPITAXY
Axial-channeling studies of strained layer superlattices
[DE83-013309] 01 p0154 N84-11010
Calculations of Channeling in Semiconductor Superlattices
[DE83-012040] 01 p0154 N84-11011

Silicon millimeter wave devices by MBE (Molecular Beam Epitaxy)
[AD-A134419] 07 p1080 N84-17025
High efficiency IMPATT diodes for 60 GHz intersatellite link applications
[NASA-TM-83584] 10 p1485 N84-19706
Growth of HgCdTe by modified molecular beam epitaxy
[AD-A137243] 10 p1588 N84-20407
Studies of 3-5 compound semiconductors for optical and microwave applications
[AD-A137849] 11 p1744 N84-21381
GaAs/GaAlAs bipolar heterojunction gate array
[AD-A138203] 12 p1913 N84-22466
Producible alternative to CdTe for epitaxy (PACE-2) of LWIR HgCdTe
[AD-A138255] 12 p1914 N84-22468
The Record of Electrical and Communication Engineering Conversazione Tohoku University, volume 52, no. 4
[ISSN-0385-7719] 13 p2039 N84-23228
All-aluminum-alloy UHV chamber for molecular beam epitaxy, 1 13 p2039 N84-23229
Undoped buffer layer development
[AD-A139758] 15 p2413 N84-25484
High speed FETs fabricated in GaAs/AlGaAs layered structures prepared by molecular beam epitaxy
[AD-A141058] 19 p3013 N84-29096
Molecular beam epitaxy of HgCdTe
[AD-A141574] 19 p3110 N84-29761
Superlattice structures grown by molecular beam epitaxy
[DE84-011288] 21 p3505 N84-32209
Magneto-optical studies of epitaxial EuS films and (EuS/SrS) layer systems
[JUEL-1910] 23 p3831 N84-34302

MOLECULAR BEAMS
Molecular-beam scattering
[DE83-016138] 01 p0144 N84-10951
Molecular-beam studies of photodissociation reactions
[DE83-015962] 02 p0228 N84-11492
Molecular supersonic jet studies of Aniline solvation by helium and methane
[AD-A132879] 05 p0650 N84-14276
Molecular jet study of aniline-helium van der Waals molecules and aniline radiationless relaxation in the 1-B sub 2 excited electronic state
[AD-A132726] 05 p0744 N84-14888
The study of a mass spectrometer-beam system for measurements of ozone and other minor constituents of the stratosphere 11 p1677 N84-20942
Crossed molecular beam studies of the reactions of oxygen and fluorine atoms
[AD-A138299] 12 p1792 N84-21688
Electric-dipole moment of CaF by molecular-beam, laser-RF, double-resonance study of Stark splittings
[DE84-005413] 15 p2405 N84-25439
Measurement of lifetimes of the vibrational levels of the B state of N2
[AD-A142161] 19 p3101 N84-29702
Photoionization investigation of iodine molecules and clusters in a supersonic molecular beam
[AD-A142645] 20 p3292 N84-30901
Molecular beam mass spectrometer sampling of flash ignited combustion
[DE84-006771] 22 p3548 N84-32459
Physical properties of CdTe films grown by hotwall and molecular beam techniques
[AD-A143180] 22 p3662 N84-33214
Chemical reaction dynamics at surfaces 22 p3681 N84-33340
A low Earth orbit molecular beam space simulation facility 24 p3863 N84-34483
Low-energy collisions excited atoms
[AD-A144192] 24 p3961 N84-35087

MOLECULAR BIOLOGY
Intracellular calcium receptors: Calmodulin and related proteins 02 p0263 N84-11724
Role of calcium and calmodulin in plant cell regulation 02 p0263 N84-11725
Photosynthesis in intact plants
[DE83-016045] 02 p0264 N84-11740
New polymers for low-gravity purification of cells by phase partitioning
[NASA-CR-170957] 06 p0809 N84-15267
Comparison of organisms and cell types using two-dimensional electrophoresis
[DE84-003574] 08 p1197 N84-17807
Investigation of compounds essential for the origin of life
[NASA-CR-173536] 15 p2378 N84-25272
Do living cells have a good sensitivity to gravity 17 p2744 N84-27425

MOLECULAR BONDS
U CHEMICAL BONDS

MOLECULAR CHAINS
An approach to molecular composites
[AD-A130192] 01 p0141 N84-10927
Investigation of the statistical mechanics of linear polymers for various physical conditions
[JUEL-1832] 03 p0357 N84-12324

MOLECULAR CLOUDS
Copernicus observational searches for OH and H2O in diffuse clouds
[NASA-CR-170601] 02 p0305 N84-12004
Some theoretical studies of the interstellar medium 02 p0306 N84-12006
Formaldehyde as a density probe of interstellar clouds 02 p0307 N84-12015
Dynamical evolution of substucture in molecular clouds 03 p0462 N84-13043
Large scale galactic shocks and motions of the cloud medium 04 p0620 N84-14089
The interstellar medium along the line of sight toward X Per 06 p0939 N84-16101
Turbulence and mass motion in galactic molecular clouds 08 p1244 N84-18129
The fluctuation spectrum of molecular clouds — interstellar matter 09 p1408 N84-19201
Observation of the interstellar ice grain feature in the Taurus molecular clouds
[DE84-004316] 10 p1595 N84-20453
Millimeter wavelength aperture synthesis maps of the star-forming region W58 10 p1595 N84-20455
Molecular clouds and galactic spiral structure
[NASA-TP-2288] 10 p1595 N84-20457
Molecular clouds and galactic spiral structure 10 p1596 N84-20459
The role of H/sub 2O in molecular clouds: Line transfer and thermal balance in warm dusty medium 10 p1596 N84-20460
The composition of interstellar grain mantles 16 p2570 N84-26490
Heterogeneous condensation of ice mantle around silicate core grain in molecular cloud 16 p2570 N84-26491
Observations of the interstellar ice grain feature in the Taurus molecular clouds 16 p2570 N84-26493
The 3 micron ice band 16 p2570 N84-26494
Experiments on chemical and physical evolution of interstellar grain mantles 16 p2570 N84-26495
The energetics and mass structure of regions of star formation
[NASA-TM-85953] 16 p2575 N84-26525
The nature of AFGL 2591 and its associated molecular outflow: Infrared and millimeter-wave observations
[NASA-TM-85963] 16 p2575 N84-26526
W3 North: Far-infrared and radio molecular observations
[NASA-TM-85961] 17 p2774 N84-27615
Heterogeneous condensation of ice mantle around silicate core grain in molecular cloud 18 p2948 N84-28689
Observations of the interstellar ice grain feature in the Taurus molecular clouds 18 p2948 N84-28691
New infrared observations of IRS1, IRS3, and the adjacent nebula in the OMC-2 cluster 18 p2950 N84-28705
Studies of low-mass star formation with the large deployable reflector
[NASA-TM-85960] 21 p3524 N84-32328
Radio astronomy 22 p3683 N84-33349

MOLECULAR COLLISIONS
The shock wave structure in one-component gas and in binary gas mixture
[ISSN-0208-5658] 03 p0370 N84-12407
Study of vibrational energy transfer at a surface by a time-of-flight method
[AD-A131798] 03 p0432 N84-12833
Electron capture and loss cross sections for collisions between heavy ions and hydrogen molecules, revised
[IPPJ-AM-28] 03 p0444 N84-12914
Theory of electronic, atomic and molecular collisions
[AD-A134025] 05 p0743 N84-14883
De-excitation and equipartition in H2-surface collisions
[DE84-003006] 06 p1229 N84-16031
Vibrational energy transfer at a surface in reacting systems. Decomposition of azomethane
[AD-A137966] 12 p1901 N84-22361
Lateral dispersion of a high-energy ion beam in a scattering medium
[UTIAS-278] 14 p2222 N84-24331
Mode-to-mode vibrational energy transfer in (1)B2 aniline induced by collisions with CO/sub 2
[DE84-007197] 15 p2406 N84-25440
Collisional energy transfer in highly vibrationally excited molecules
[AD-A140772] 17 p2765 N84-27558
Electron impact cross sections for molecular lasers
[AD-A141754] 19 p3029 N84-29211
Resonances in electron-molecule scattering and photoionization
[DE84-012660] 21 p3494 N84-32139
Formation of electron-hole pairs in a semiconductor by vibrationally-excited molecules
[AD-A143552] 22 p3664 N84-33226
A simple DWBA (Franck-Condon) treatment of H-atom transfers between two heavy particles
[AD-A143867] 23 p3822 N84-34236
Electronic excitation in molecular collisions: Structural, dynamic and kinetic considerations
[AD-A143956] 23 p3822 N84-34238
Energy transfer in atom-molecule collisions with suprathermal collision energy
[MPIS-2/1984] 23 p3824 N84-34249

MOLECULAR DIFFUSION
Volume recovery in glasses: A free-volume diffusion process
[DE83-013771] 06 p0611 N84-15280
Laser studies of molecular dynamics
[AD-A138102] 12 p1820 N84-21864
Microwelding of various metallic materials under ultravacuum (A0138-10) 15 p2272 N84-24842
Fractionation of chemical elements at ocean-atmosphere interface 17 p2698 N84-27199
The transfer of atoms, ions and molecular groups in solution. Part 1: Models and limits
[AD-A142333] 20 p3147 N84-29981

MOLECULAR DISSOCIATION
U DISSOCIATION

MOLECULAR ELECTRONICS
NT LARGE SCALE INTEGRATION

MOLECULAR ENERGY LEVELS
NT INTERMOLECULAR FORCES
Energy partitioning to product translation in the infrared multiphoton dissociation of diethyl ether
[AD-A131555] 02 p0226 N84-11482
Study of vibrational energy transfer at a surface by a time-of-flight method
[AD-A131798] 03 p0432 N84-12833
The hydrogen molecule for a two-dimensional system — doped semiconductors
[INPE-2981-PRE/443] 07 p1071 N84-16958
Theoretical chemical calculations on molecules of air force interest
[AD-A137203] 10 p1576 N84-20326
Millimeter and submillimeter wave research: Spectroscopy, energy transfer and techniques
[AD-A137884] 11 p1663 N84-20853
The development of computer routines to perform a comprehensive analysis of spectroscopic data from diatomic molecules
[AD-A138063] 12 p1791 N84-21680
Patterns of energy levels and spectra for polystomic molecules
[DE84-007501] 15 p2405 N84-25436
Deactivation of higher vibrational levels of HF by F atoms
[AD-A140853] 17 p2673 N84-27034
Microwave and far infrared spectroscopy of transient molecules
[AD-A142962] 21 p3493 N84-32134

MOLECULAR EXCITATION
Random-choice solutions for weak spherical shock-wave transitions of n-waves in air with vibrational excitation
[UTIAS-253] 01 p0077 N84-10502
Experimental study of dissociative attachment in optically-pumped lithium molecules
[AD-A131601] 02 p0269 N84-11694
Chaos in semiclassical model of multiphoton excitation of spherical top molecules
[DE83-014201] 02 p0269 N84-11697
Kinetics of growth and decay of excited rare-gas atoms and molecules in the pulse radiolysis of pure rare gases and of mixtures of rare gases with molecular quenching agents
[DE83-017016] 03 p0436 N84-12856
The excitation of SiO in circumstellar envelopes 03 p0462 N84-13041
Shock induced molecular excitation in solids
[AD-A132236] 04 p0596 N84-13935
Simulation of shock-induced energy flux in molecular solids
[DE84-001157] 04 p0613 N84-14047
Molecular jet study of aniline-helium van der Waals molecules and aniline radiationless relaxation in the 1-B sub 2 excited electronic state
[AD-A132726] 05 p0744 N84-14888
Laser-induced molecular dynamics: Rate processes in the gas phase and at solid surfaces
[AD-A134426] 07 p1072 N84-16962
Energetics and collision dynamics of electronic transition lasers
[AD-A135894] 09 p1322 N84-18639

Picosecond laser studies of excited state processes
[AD-A136137] 09 p1323 N84-18648
An experimental and numerical study of weak spherical N-waves produced by exploding wires
[UTIAS-TECH-NOTE-248] 11 p1651 N84-20779
Comments on laser-excited fluorescence of the hydroxyl radical: Relaxation coefficients at atmospheric pressure, appendix 5
[NASA-CR-175442] 11 p1662 N84-20843
Microwave excitation of a CO2 laser
[AD-A136057] 12 p1820 N84-21862
Laser studies of molecular dynamics
[AD-A136102] 12 p1820 N84-21864
Vibrational energy transfer at a surface in reacting systems. Decomposition of azomethane
[AD-A137966] 12 p1901 N84-22361
Primary patterns of electronically excited molecules in the gas phase 2
[MPIS-9/1983] 13 p2041 N84-23245
Mode-to-mode vibrational energy transfer in (1)B2 aniline induced by collisions with CO/sub 2
[DE84-007197] 15 p2406 N84-25440
Shape resonances in molecular fields
[DE84-009206] 15 p2406 N84-25443
Vibrational and rotational excitation of CO in comets. Part 1: Non-equilibrium calculations. Part 2: Results of the calculation for standard bright comet, comet Iras-Araki-Alcock and comet Halley
[NASA-TM-86122] 16 p2579 N84-26545
Prediction of transition states and thermochemistry for combustion reactions
[AD-A140738] 17 p2619 N84-26761
Collisional energy transfer in highly vibrationally excited molecules
[AD-A140772] 17 p2765 N84-27558
Primary processes of electronically excited molecules in vapor phase, part 3
[MPIS-12/1983] 18 p2930 N84-28582
Unbalanced infrared radiation and natural laser effect in atmospheres of Venus and Mars
19 p2975 N84-28858
Supersonic molecular jet studies of Toluene-Helium and Toluene-Methane clusters
[AD-A141379] 19 p2988 N84-28931
Electron impact cross sections for molecular lasers
[AD-A141754] 19 p3029 N84-29211
Photoionization of excited molecular states using multiphoton excitation techniques
[DE84-004034] 20 p3296 N84-30925
Scattering experiments on rotational excitation of methane in collision with noble gases
[MPIS-3/1984] 20 p3297 N84-30936
Optical stark effect in the 2-photon spectrum of NO
[NASA-TM-85864] 21 p3492 N84-32131
Energy redistribution in diatomic molecules on surfaces
[DE84-011442] 21 p3505 N84-32213
Reactions of negative ions
[AD-A143793] 23 p3714 N84-33541
Electronic excitation in molecular collisions: Structural, dynamic and kinetic considerations
[AD-A143956] 23 p3822 N84-34238

MOLECULAR FLOW
NT SLIP FLOW
NT TRANSITION FLOW
Molecular jet study of aniline-helium van der Waals molecules and aniline radiationless relaxation in the 1-B sub 2 excited electronic state
[AD-A132726] 05 p0744 N84-14888
Dynamics of rarefied gas and molecular gas dynamics
[AD-A132669] 05 p0749 N84-14921
Numerical solution to the steady state equation of transfer in azimuthally symmetric geometries — heat transfer and molecular flow
[DE84-001781] 06 p0845 N84-15509
Molecular velocimetry using stimulated Raman spectroscopy
[NASA-TM-85808] 15 p2405 N84-25433
Free molecular aerodynamics for satellite application
[ESA-TT-776] 16 p2456 N84-25749

MOLECULAR GASES
NT DIATOMIC GASES
A study of physical processes for space radiation protection
[NASA-CR-173183] 07 p1071 N84-16954
Intermediate energy proton stopping power for hydrogen molecules and monoatomic helium gas
07 p1071 N84-16955
Low-energy proton stopping power of N2, O2 and water vapor and deviations from Bragg's rule
07 p1071 N84-16956
A theoretical model for calculation of molecular stopping power 07 p1071 N84-16957
The nature of AFGL 2591 and its associated molecular outflow: Infrared and millimeter-wave observations
[NASA-TM-85963] 16 p2575 N84-26526
Dynamics of large molecules and molecular clusters
[AD-A143386] 22 p3560 N84-32542
Measurement of H2O and other trace gases in the stratosphere using a high resolution far-infrared spectrometer at 26 km
[NASA-CR-173879] 22 p3622 N84-32951
Determination of microwave attenuation due to the influence of atmospheric gases using the radiometric technique
[INPE-2850-PRE/391] 23 p3730 N84-33637

MOLECULAR INTERACTIONS
NT ASSOCIATION REACTIONS
NT INTERSTELLAR CHEMISTRY
NT MOLECULAR COLLISIONS
New materials for organic photovoltaic cells
[DE83-016845] 03 p0404 N84-12645
High temperature gas energy transfer
[AD-A131782] 03 p0433 N84-12836
Electron-molecule interactions in gases and liquids: The electron-attachment process in gases and nonpolar liquids
[DE83-017205] 03 p0436 N84-12863
Many electron effects in the photoelectron spectra of condensed nitric oxide
[AD-A136130] 12 p1791 N84-21681
Laser studies of molecular dynamics
[AD-A136102] 12 p1820 N84-21864
Laboratory studies of atomic collision processes
[AD-A137992] 12 p1901 N84-22382
Effect of interfacial bonding on the strength of adhesion of elastomers. 3: Interlinking by molecular entanglements
[AD-A138760] 13 p1983 N84-22757
Theoretical studies of solids under extreme conditions
[AD-A139352] 14 p2132 N84-23778
Electrochemistry at the molecular level
[AD-A140070] 15 p2287 N84-24723
International Conference on Radiationless Transitions
[AD-A141407] 19 p3100 N84-29695
Application of molecular dynamics to macroscopic particles
[DE84-011066] 20 p3186 N84-30244
Semiconductor surface studies
22 p3681 N84-33338
A low Earth orbit molecular beam space simulation facility 24 p3863 N84-34483

MOLECULAR IONS
A molecular orbital study of atmospherically important species
[AD-A133656] 05 p0649 N84-14267
An investigation of cascade energy density effects using classical trajectory simulations of sputtering by molecular ions
[AD-A132539] 05 p0743 N84-14880
Molecular ion photofragment spectroscopy
[DE84-003299] 10 p1577 N84-20333
Interactions of fast atomic and molecular ions with matter
[DE84-006555] 15 p2405 N84-25438
Mobility and molecular ions of dimethyl methyl phosphonate, methyl salicylate and acetone
[AD-A140328] 16 p2555 N84-26395
Ion photofragment spectroscopy: Structure and dissociation of molecular ions
[AD-A141196] 18 p2811 N84-27846
Theoretical study of the radiative and kinetic properties of selected metal oxides and air molecules
[AD-A141230] 18 p2811 N84-27847
Method and source for producing a high concentration of positively charged molecular hydrogen or deuterium ions
[DE84-011030] 20 p3295 N84-30918
Determination of energetics and spectra of simple molecular systems using theoretical methods
[DE84-009668] 20 p3296 N84-30930

MOLECULAR ORBITALS
Fragmentation of small molecules following soft X-ray excitation
[DE83-011645] 02 p0289 N84-11896
A molecular orbital study of atmospherically important species
[AD-A133656] 05 p0649 N84-14267
A molecular orbital model of intergranular embrittlement
[AD-A133056] 05 p0655 N84-14307
When is an internal rotation a vibration?
[AD-A132974] 05 p0744 N84-14890
Structure-activity correlations for organophosphorus ester anticholinesterases. Part 2: CNDO/2 calculations applied to ester hydrolysis rates
[NASA-TM-85888] 07 p0966 N84-16257
Extensions of the theory of the electron-phonon interaction in metals: A collection
[AD-A134140] 07 p1079 N84-17018
Theoretical chemical calculations on molecules of air force interest
[AD-A137203] 10 p1576 N84-20326
Iterative coupling of partitioned clusters in the scattered-wave molecular-orbital method
[AD-A141522] 19 p3101 N84-29697
MINDO/3 and MNDO calculations for nitro compounds
[AD-A141727] 19 p3101 N84-29698
A study of the interaction of millimeter wave fields with biological systems
[AD-A144150] 24 p3935 N84-34910

MOLECULAR OSCILLATIONS
Study of vibrational energy transfer at a surface by a time-of-flight method
[AD-A131798] 03 p0432 N84-12833
International Conference on Vibrations at Surfaces (3rd)
[AD-A131794] 03 p0433 N84-12834
Vibrational spectroscopy of chemisorbed molecules by infrared emission
[DE84-000956] 04 p0602 N84-13973
Theoretical studies in molecular fragmentation: Processes, energetics and diagnostics
[AD-A134008] 05 p0743 N84-14884
Rotational energy transfer in highly vibrationally excited hydrogen fluoride and deuterium fluoride
[AD-A133102] 05 p0745 N84-14892
Average vibrational energy transfer during a single collision of excited molecules with heat bath molecules
[AD-A133391] 06 p0915 N84-15949
Interactions of vibrationally excited molecules with solid surfaces
[AD-A133449] 06 p0915 N84-15950
The development of computer routines to perform a comprehensive analysis of spectroscopic data from diatomic molecules
[AD-A138063] 12 p1791 N84-21680
Mode-to-mode vibrational energy transfer in (1)B2 aniline induced by collisions with CO/sub 2
[DE84-007197] 15 p2406 N84-25440
Shape resonances in molecular fields
[DE84-009206] 15 p2406 N84-25443
Deactivation of higher vibrational levels of HF by F atoms
[AD-A140853] 17 p2673 N84-27034
Collisional energy transfer in highly vibrationally excited molecules
[AD-A140772] 17 p2765 N84-27558
CO2 gamma 3 fundamental band 4.5 micrometers laser potential
[AD-A142536] 20 p3148 N84-29991
Vibrational energy relaxation and dissociation in N2
[AD-A143606] 23 p3827 N84-34276
The calculation of molecular Eigen-frequencies
[NASA-TM-77759] 24 p3961 N84-35086

MOLECULAR OSCILLATORS
The transfer of atoms, ions and molecular groups in solution. Part 2: Tunnelling between harmonic wells
[AD-A142334] 20 p3147 N84-29982

MOLECULAR PHYSICS
USSR report: Physics and mathematics
[JPRS-UPM-84-005] 21 p3484 N84-32081

MOLECULAR RELAXATION
Electronic-relaxation processes in polyatomic molecules
[AD-A131Lim, Edward C.
[DE83-008738] 01 p0144 N84-10945
Kinetics of growth and decay of excited rare-gas atoms and molecules in the pulse radiolysis of pure rare gases and of mixtures of rare gases with molecular quenching agents
[DE83-017016] 03 p0436 N84-12856
Amplification of sound by gas phase reactions
[AD-A133747] 05 p0649 N84-14266
Molecular jet study of aniline-helium van der Waals molecules and aniline radiationless relaxation in the 1-B sub 2 excited electronic state
[AD-A132726] 05 p0744 N84-14888
Rotational energy transfer in highly vibrationally excited hydrogen fluoride and deuterium fluoride
[AD-A133102] 05 p0745 N84-14892
Dielectric relaxation in poly(ethylene oxide) complexed with alkali metal perchlorates
[AD-A134464] 07 p0970 N84-16284
Effects of light and modulation frequency on spin-dependent trapping at silicon grain boundaries
[DE84-002107] 07 p1082 N84-17035
Optical studies of dynamical process in disordered materials
[DE84-002048] 07 p1083 N84-17042
Vibrational relaxation of diatomic molecules in solids at low temperatures 10 p1559 N84-20217
Plasma beam instability of bounded electron beam in weak magnetic field 21 p3488 N84-32105

Electrical and differential scanning calorimetry studies of poly(ethylene oxide) complexed with alkaline earth thiocyanates
[AD-A143198] 22 p3546 N84-32449
Chemical reactions, radiative and energy transfer processes of important atmospheric species
[AD-A143264] 22 p3653 N84-33156
Anomalous pressure dependence of dipolar relaxation times in rare earth doped lead fluoride
[AD-A143201] 22 p3662 N84-33215
Vibrational energy relaxation and dissociation in N2
[AD-A143606] 23 p3827 N84-34276

MOLECULAR ROTATION
Collisional energy exchange in polyatomic molecules
[AD-A133942] 05 p0744 N84-14886
Rotational energy transfer in highly vibrationally excited hydrogen fluoride and deuterium fluoride
[AD-A133102] 05 p0745 N84-14892
Raman spectroscopy of shocked water
[DE84-002468] 07 p0972 N84-16295
Measurement of heat pump processes induced by laser radiation
[NASA-CR-168324] 09 p1319 N84-18620
Millimeter and submillimeter wave research: Spectroscopy, energy transfer and techniques
[AD-A137884] 11 p1663 N84-20653
Analysis of carbon dioxide bands near 2.2 micrometers
[NASA-CR-173605] 16 p2462 N84-25779
Vibrational and rotational excitation of CO in comets. Part 1: Non-equilibrium calculations. Part 2: Results of the calculation for standard bright comet, comet Iras-Araki-Alcock and comet Halley
[NASA-TM-86122] 16 p2579 N84-26545
Collisional energy transfer in highly vibrationally excited molecules
[AD-A140772] 17 p2765 N84-27558
Freejets of rotationally relaxing diatomic gases 20 p3169 N84-30119
Scattering experiments on rotational excitation of methane in collision with noble gases
[MPIS-3/1984] 20 p3297 N84-30936
A theoretical study of the energetics and dynamics of high energy inelastic collision processes
[AD-A142799] 21 p3497 N84-32163

MOLECULAR SIEVES
U ABSORBENTS

MOLECULAR SPECTRA
NT ELECTRONIC SPECTRA
NT RAMAN SPECTRA
NT VIBRATIONAL SPECTRA
Proceedings of the 38th Symposium on Molecular Spectroscopy
[AD-A133957] 05 p0646 N84-14252
Molecular supersonic jet studies of Aniline solvation by helium and methane
[AD-A132679] 05 p0650 N84-14276
Optical diagnostics for condensed-phase shock-compressed molecular systems
[DE84-001172] 06 p0845 N84-15510
A spectrum of methane from 700 to 5500 cm-1
[NASA-CR-175360] 07 p0969 N84-16280
Least squares methods of analyzing spectroscopic data
[NASA-CR-175335] 07 p1061 N84-16877
Precision measurements of line positions and profile at a wavelength of ten micrometers — infrared spectroscopy
[MPE-180] 10 p1579 N84-20346
The role of H/sub 2O in molecular clouds: Line transfer and thermal balance in warm dusty medium 10 p1596 N84-20460
Spectroscopic studies of the products of the reactions of excited noble-gas atoms
[AD-A137750] 11 p1730 N84-21284
Patterns of energy levels and spectra for polyatomic molecules
[DE84-007501] 15 p2405 N84-25436
Optical stark effect in the 2-photon spectrum of NO
[NASA-TM-85964] 21 p3492 N84-32131
Correlation spectrometer having high resolution and multiplexing capability
[NASA-CASE-NPO-15558-1] 24 p3901 N84-34705

MOLECULAR SPECTROSCOPY
NT RAMAN SPECTROSCOPY
Generation of ultrafast optical fiducials for shock-wave experiments
[DE83-013765] 01 p0148 N84-10974
Proceedings of the 38th Symposium on Molecular Spectroscopy
[AD-A133957] 05 p0646 N84-14252
Atomic and molecular gas phase spectrometry
[AD-A135971] 09 p1392 N84-19088
Precision measurements of line positions and profile at a wavelength of ten micrometers — infrared spectroscopy
[MPE-180] 10 p1579 N84-20346
Spectroscopy of surface adsorbed molecules
[DE84-005254] 10 p1589 N84-20417
Crossed molecular beam studies of the reactions of oxygen and fluorine atoms
[AD-A136299] 12 p1792 N84-21686
NGC 2024: Far-infrared and radio molecular observations
[NASA-TM-85954] 16 p2575 N84-26524
Laboratory evaluation of tunable atomic line molecular spectrometers for benzene analysis
[PB84-177765] 17 p2672 N84-27032
High-resolution spectroscopy and dynamics of multiphoton processes in atoms and molecules
[AD-A143017] 21 p3359 N84-31303
Microwave and far infrared spectroscopy of transient molecules
[AD-A142962] 21 p3483 N84-32134
Dynamics of large molecules and molecular clusters
[AD-A143386] 22 p3560 N84-32542

MOLECULAR STRUCTURE
Structures and properties of new types of cubical boron nitride
[CSIR-TRANS-1683] 01 p0030 N84-10190
The measurement of the diffusive motion of protons in biological systems
[AD-A129276] 01 p0142 N84-10930
Structural effects on hydrogen bonding properties of nitro compounds
[AD-A130817] 02 p0190 N84-11232
Epitaxial polymerization as a molecular engineering technique
[AD-A131405] 02 p0200 N84-11302
Molecular photoionization studies
[DE83-014283] 02 p0291 N84-11905
Structure and vibrational spectra of a model of a-Si:H with periodic boundary conditions
[DE83-015245] 03 p0367 N84-12390
Studies of the correlation of electrode kinetics with molecular structure
[AD-A131704] 03 p0433 N84-12838
Solitons and polarons in quasi-one dimensional conducting polymers and related materials
[DE83-015233] 03 p0435 N84-12853
Molecular basis for local compositions in liquid-mixture models
[DE83-016604] 04 p0495 N84-13250
The effect of the structure of metallo-organic complexes on the electrolytic precipitation of titanium and niobium from nonaqueous electrolytes
[BLL-OA-TRANS-3070-(6196.3)] 04 p0497 N84-13259
EXAFS study of Metglas 2605 CO
[DE84-001203] 04 p0503 N84-13299
Relationship between the glass transition temperature and the chemical structure of polymers
[RAE-LIB-TRANS-2098] 04 p0505 N84-13312
Chemical and physical characterization of the activation of ribuloesebiphosphate carboxylase/oxygenase
[DE83-017226] 04 p0571 N84-13764
Model compound studies of rigid rod aromatic heterocyclic polymer systems, the X-ray crystal structure of 2,6-diphenylbenzo (1,2-d; 5,4-d') diimidazole tetrahydrate, C2OH14N4. 4H2O, a model system for the study of polymer-water interaction in polybenzimidazoles
[AD-A135278] 08 p1137 N84-17393
Atomic transport in metallic glasses
[AD-A136363] 09 p1282 N84-18373
Structure of glasses containing transition metal ions
[DE84-004211] 10 p1468 N84-19591
The relationship of engineering properties to the molecular structure of polymeric materials: Damage accumulation processes
[AD-A138411] 12 p1801 N84-21745
Intramolecular electron transfer at metal surfaces. 1. Relative energetics of some corresponding outer- and inner-sphere pathways involving halide and pseudohalide bridging ligands
[AD-A139021] 13 p1958 N84-22716
Physical properties and structure of ion-containing polymers
[AD-A139137] 14 p2129 N84-23766
Simulation of shock-induced energy flux in molecular solids, revision 1
[DE84-008331] 15 p2304 N84-24827
Dyes for displays
[BMFT-FB-T-84-100] 16 p2557 N84-26401
Liquid crystal polyester-carbon fiber composites
[NASA-CR-172323] 17 p2618 N84-26754
Development of FT-IR attenuated total internal reflection dichroism techniques for structural characterization of polymer surfaces
[AD-A140805] 17 p2768 N84-27577
Ion photofragment spectroscopy: Structure and dissociation of molecular ions
[AD-A141196] 18 p2811 N84-27848
A twisted P-C double bond: Synthesis and structure of a (Methylene)phosphine Fe-CO-4 complex
[AD-A141502] 19 p2964 N84-28907
Synthesis and structure of sulfur derivatives of a (methylene)phosphine
[AD-A141513] 19 p2964 N84-28909
Reactions of metal-metal multiple bonds. Part 14: Synthesis and characterization of triangulo-W3 and Mo2W-oxo capped alkoxide clusters. Comproportionation of M-M triple bonds, sigma(2)pi(4) and d(o) Metal-oxo groups: M triple bond M + M triple bond O yields M3(micron 3-O)
[AD-A141067] 19 p2967 N84-28930
Nuclear magnetic resonance study of the structure of simple molecules adsorbed on metal surfaces: Acetylene on platinum
[DE84-008661] 19 p2996 N84-28981
Synthesis and evaluation of improved electron-beam and X-ray lithographic resist polymers
[AD-A141674] 19 p2999 N84-29006
Molecular order and solidification processes in organic liquids and solutions
[AD-A141777] 19 p3101 N84-29899
Application of the graphical unitary group approach to the energy second derivative for CI wave functions via the coupled perturbed CI equations
[DE84-008489] 19 p3112 N84-29772
Macrocycles containing tin. Synthesis and structure of 1,10-Diphenyl-1,10-Distannabicycle (8.8.8)Hexacosane
[AD-A142703] 20 p3145 N84-29966
Scattering optical activity of chiral molecules: Circular intensity differential scattering and circular differential imaging
[DE84-010712] 21 p3493 N84-32137
Studies of structural properties and their relationship to critical parameters in superconducting materials
[AD-A143556] 22 p3664 N84-33227
The influence of grain structure, testing temperature and environment on the monotonic and low cycle fatigue behavior of a high strength aluminum-copper-lithium alloy 23 p3716 N84-33558
Thermal degradation studies of segmented thermoplastic elastomers
[AD-A143954] 23 p3724 N84-33600
The structural chemistry of energetic compounds
[AD-A143955] 23 p3822 N84-34237
The bromination of pyrazabole
[AD-A144264] 24 p3880 N84-34581

MOLECULAR WEIGHT
Effect of molecular-structural characteristics of cis-1,4 polyisoprene on the melting temperature of the orientated crystaline phase
[CSIR-TRANS-1643] 01 p0152 N84-10999
Relationship between morphology and mechanical properties of ultra high molecular weight polyethylene
[PB83-240960] 02 p0202 N84-11317
Homogenizing properties of diblock polymers in blends of corresponding homopolymers
[AD-A132832] 05 p0659 N84-14334
Ultrahigh molecular weight aromatic siloxane polymers 06 p0930 N84-16042
Processing study of a polyimidesulfone adhesive
[NASA-TM-85742] 07 p0978 N84-16339
Ultra-high molecular weight silphenylene-siloxane polymers
[NASA-TP-2295] 10 p1464 N84-19584
Mechanical behavior of ultra high molecular weight polyethylene
[PB84-175538] 16 p2473 N84-25851
Experiments on chemical and physical evolution of interstellar grain mantles 16 p2570 N84-26495
Effect of polydispersity on the cloud point curves of polymer mixtures
[AD-A143159] 21 p3370 N84-31364
Structural pressure sensitive silicone adhesives
[NASA-CASE-LAR-13270-1] 22 p3558 N84-32532
Melt-flow-toughness modified polyimide
[NASA-CASE-LAR-13135-1] 24 p3887 N84-34616

MOLECULES
NT DIATOMIC MOLECULES
NT MONATOMIC MOLECULES
NT POLYATOMIC MOLECULES
Experimental studies of the geometric and electronic structure of chemisorption bonding
[PB83-243949] 02 p0192 N84-11248
Dense molecular thermodynamics
[DE83-015216] 03 p0457 N84-13006
Heat capacity and thermodynamic properties of linear macromolecules 06 p0809 N84-15263
Stratospheric determination of effective photodissociation cross sections for molecular oxygen: 191-204 nm
[AD-A134168] 07 p1034 N84-16706

Least squares methods of analyzing spectroscopic data
[NASA-CR-173241] 07 p1059 N84-16858
Tie molecules in polyethylene
[PB84-101435] 08 p1139 N84-17405
Mass spectrometry detection of neutral dissociative fragments
[AD-A135847] 09 p1279 N84-18351
Bioassay, isolation and studies on the mechanism of action of neurite extension factor
09 p1359 N84-18881
Polymerization of 3-methyl-2,5-Dibromothiophene utilizing n-butyl lithium and Copper(II) chloride
[AD-A136955] 10 p1468 N84-19585
Computer simulation of protein systems
10 p1559 N84-20214
The chemistry of nitrogen compounds in combustion processes
[AD-A139539] 14 p2123 N84-23723
Inner-shell photoemission from atoms and molecules using synchrotron radiation
[DE84-006624] 14 p2223 N84-24339
Experimental studies in molecular fragmentation: Processes, energetics and diagnostics
[AD-A136648] 18 p2810 N84-27840
Theoretical study of the radiative and kinetic properties of selected metal oxides and air molecules
[AD-A141230] 18 p2811 N84-27847
Macrocycles containing tin. Synthesis and structure of 1,10-Diphenyl-1,10-Distannabicycle (8.8.8)Hexacosane
[AD-A142703] 20 p3145 N84-29966
The transfer of atoms, ions and molecular groups in solution. Part 3: Monte Carlo methods for the evaluation of rate constants
[AD-A142335] 20 p3147 N84-29983
Ultraviolet light absorbers having 2 different chromophors in the same molecule
[DE84-011279] 20 p3150 N84-30000
Photoionization investigation of iodine molecules and clusters in a supersonic molecular beam
[AD-A142645] 20 p3292 N84-30901
Resonance ionization spectroscopy measurement of the vapor pressure of several molecular species
[DE84-010656] 21 p3409 N84-31624
Ion-molecule reactions and plasma parameters of positive column in oxygen glow discharge
21 p3476 N84-32036
Microwave and far infrared spectroscopy of transient molecules
[AD-A142962] 21 p3493 N84-32134
Predictions of entropies of molecules and liquids
[DE84-010504] 21 p3507 N84-32216
Dynamics of large molecules and molecular clusters
[AD-A143986] 22 p3560 N84-32542

MOLIERE FORMULA
U COSMIC RAY SHOWERS
U SPATIAL DISTRIBUTION

MOLTEN SALT ELECTROLYTES
Oxygen production by the molox process
[DE83-012847] 02 p0190 N84-11237
Chemistry of lithium alloy/iron sulfide cells
[DE83-014815] 02 p0215 N84-11408
Molten-carbonate fuel cells, development status
[DE84-000612] 04 p0529 N84-13480
Advanced fuel-cell development
[DE84-002685] 05 p0676 N84-14445
Electroplated metal coatings produced by fused salt electrolysis
[BLL-OA-TRANS-3140-(6196.3)]
09 p1281 N84-18366
Resistance characterization of nickel sulfide electrodes in LiCl-containing molten salt electrolytes
[DE84-006734] 13 p1987 N84-22698
Use of the Li-Al/FeS battery in advanced vehicle propulsion systems
[DE84-007275] 15 p2421 N84-25538
Molten carbonate fuel cell cathode development
[DE84-012101] 21 p3395 N84-31544
Pore-forming fillers for molten carbonate matrices
[DE84-014509] 23 p3715 N84-33551

MOLTEN SALTS
Preliminary study of the electrolysis of aluminum sulfide in molten salts
[DE83-014552] 01 p0038 N84-10242
Electrochemical characteristics of lithium-silicon alloy electrodes for high-temperature-battery applications
[DE83-014343] 01 p0039 N84-10244
Oil/salt hydrate direct-contact heat-exchange experiments
[DE83-009396] 01 p0062 N84-10533
Evaluation of low melting halide systems for battery applications
[AD-A131330] 02 p0242 N84-11582
Principles of superionic conduction
[DE84-001215] 04 p0613 N84-14044
Thermodynamics of condensed ionic systems
[DE84-001823] 05 p0755 N84-14950
Polymer coated electrodes in ambient temperature molten salts
[AD-A133202] 06 p0801 N84-15220
A melt for the electrolytic application of titanium plating
[BLL-OA-TRANS-3111-(6L96.3)]
06 p0804 N84-15241
High-temperature direct absorption research
[DE84-000019] 07 p1003 N84-16505
Chemical and electrochemical properties in molten alkaline hydroxides
[BLL-RISLEY-TR-4854-(9091.9F)]
08 p1123 N84-17298
Molten salt electrochemical systems
[AD-A135108] 08 p1124 N84-17304
Aluminum-manganese plating from a molten salt bath
[AD-A135240] 08 p1131 N84-17356
Rotating cathode device for molten salt bath — to prepare metallic titanium or aluminum
[BLL-OA-TRANS-3173-(6196.3)]
09 p1317 N84-18604
Development of molten carbonate fuel cell power plant technology
[DE84-002367] 10 p1487 N84-19720
Electrode polarization studies in hot corrosion systems
[DE84-005485] 11 p1634 N84-20686
Preparation and properties of electrically conducting ceramics based on indium oxide-rare Earth oxides-hafnium oxide
11 p1741 N84-21360
Direct-contact high-temperature thermal energy storage heat exchanger
[DE84-000012] 12 p1816 N84-21839
Electrochemical and spectroscopic studies of polypyridine complexes of Fe(2)/(3) and Ru(2)/(3) in the aluminum chloride: N-(1-Butyl)Pyridinium chloride molten salt
[AD-A139170] 14 p2122 N84-23715
Increased electrochemical window in ambient temperature neutral ionic liquids
[AD-A139194] 14 p2122 N84-23717
Electrochemistry of carbides and carbon cathodes in molten halides
[DE84-007966] 15 p2287 N84-24725
Solar molten salt electric experiment
[DE84-006340] 15 p2363 N84-25178
Thermal energy storage in molten-salt systems for solar central receivers: The federal role in research and development
[DE84-007433] 15 p2364 N84-25185
Nuclear magnetic resonance studies of molten salts
[AD-A141751] 19 p2988 N84-28935
Metal dissolution kinetics in halide melts
[DE84-004030] 19 p2995 N84-28977
Characterization of voltage losses during high-intensity current pulses in reactive, porous electrodes of molten salt cells
[DE84-012112] 22 p3589 N84-32730
Molten carbonate fuel cell performance model update
[DE84-012932] 22 p3589 N84-32733
Electrochemical performance of porous nickel sulfide electrodes
[DE84-009588] 22 p3590 N84-32741
Technology Base Research Project for Electrochemical Energy Storage
[DE84-013877] 22 p3619 N84-32930
Ground-state properties and optical excitations of a solvated electron in molten alkali halides
[DE84-701191] 24 p3881 N84-34587

MOLTING
The Li-Hf evolution of KREEP
11 p1756 N84-21461
Cathode materials development for carbonate fuel cells
[DE84-010033] 15 p2363 N84-25179
Development of molten carbonate fuel cell technology
[DE84-004856] 15 p2364 N84-25183
Features of behaviour of gas bubbles in molten oxide films during enamelling
[BLL-M-35672-(5828.4)] 22 p3553 N84-32496

MOLYBDENUM
Miniature charpy-impact test results for the irradiated ferritic alloys HT-9 and modified 9Cr-1Mo
[DE83-016935] 03 p0354 N84-12300
Structures and properties of rapidly solidified 9Cr-1Mo steel
[DE84-001276] 04 p0499 N84-13276
Pulsed-ion-irradiated microstructures in molybdenum
[DE84-000679] 04 p0504 N84-13304
Creep properties of modified 9 Cr-1 Mo steel
[DE84-003174] 07 p0976 N84-16328
Development of modified 9 Cr-1 Mo steel for elevated-temperature service
[DE84-003161] 08 p1133 N84-17372
Theoretical studies of metal clusters and of chemisorption on metals
[AD-A136175] 12 p1791 N84-21683
Reduced grain boundary mobility and the sintering of molybdenum
[AD-A140265] 16 p2469 N84-25823
Computer simulation studies of sputtering from clean tungsten and nitrogen reacted tungsten and molybdenum surfaces
[AD-A140900] 17 p2769 N84-27581
Orbiting dynamic compression laboratory
[NASA-CR-173704] 18 p2798 N84-27755
Metal dissolution kinetics in halide melts
[DE84-004030] 19 p2995 N84-28977
Aspects of electroless nickel plating on molybdenum
[DE84-006434] 20 p3158 N84-30057
Coated silica shells: An advanced hydrogen storage system
[DE84-008986] 20 p3163 N84-30088
Oxidation characteristics of molybdenum-zirconium oxide cermets
[NASA-TM-77622] 23 p3723 N84-33594
Development of metallization process. FSA project, cell and module formation research area
[NASA-CR-173959] 23 p3789 N84-34030
The Hall (Nevada moly) molybdenum deposit, Nye County, Nevada: Geology, alteration, mineralization and geochemical dispersion 23 p3795 N84-34062

MOLYBDENUM ALLOYS
NT RENE 95
Fracture behavior of unirradiated HT-9 and modified 9Cr-1Mo welds
[DE83-016021] 01 p0098 N84-10636
Initial evaluation of molybdenum-rhenium alloy for reactor heat pipes
[DE83-012687] 01 p0145 N84-10955
Structural studies of amorphous Mo-Ge alloys through the semiconductor-metal transition
[DE83-016525] 02 p0299 N84-11964
Calculations of composition boundaries of saturated phases
[DE84-001665] 04 p0499 N84-13274
Magnetic properties of Mo/Ni superlattices
[DE84-000568] 04 p0614 N84-14053
Pulsed electrodeposition of amorphous and composite alloys
[AD-A132848] 05 p0646 N84-14246
Grain boundary segregation and cavity formation in creep embrittled Cr-Mo steels 06 p0817 N84-15320
Influence of vibration grinding on the properties of tungsten powders and the quality of sintered pieces
[BLL-M-35373] 08 p1140 N84-17414
Mechanical properties of a modified 2 1/4 Cr-1 Mo steel for pressure vessel applications
[DE84-004105] 09 p1285 N84-18394
Ion-induced surface modification of alloys
[DE84-006664] 14 p2243 N84-24468
The effect of cooling rate from the gamma-phase on the strain-rate sensitivity of a uranium 2w/o molybdenum alloy
[QUEL-1492/83] 15 p2296 N84-24779

MOLYBDENUM CARBIDES
Procedure for the electroplating of sintered materials containing carbide or cast alloys of tungsten, molybdenum, titanium or zirconium
[BLL-RISLEY-TRANS-4557-(9091.9)]
22 p3551 N84-32484

MOLYBDENUM COMPOUNDS
NT MOLYBDENUM DISULFIDES
NT MOLYBDENUM OXIDES
Theoretical and experimental studies of the electronic structure of the Mo3(Micro3-0)(Micro3-OR)(Micro-OR)3(OR)6 type of triangulo metal atom cluster compound
[AD-A133516] 06 p0915 N84-15951

MOLYBDENUM DISULFIDES
Sliding electric contacts in space: Observations on existing technology and new trends in low-speed applications 09 p1294 N84-18455
Moisture resistant MoS2-based composite lubricant films 09 p1296 N84-18468
Frictional and morphological properties of Au-MoS2 films sputtered from a compact target
[NASA-TM-83604] 11 p1664 N84-20858
MoO3, ex MoS2, with further processing of the metal-bearing waste sulfuric acid generated in the process
[BMFT-FB-T-83-297] 15 p2366 N84-25196

MOLYBDENUM OXIDES
MoO3, ex MoS2, with further processing of the metal-bearing waste sulfuric acid generated in the process
[BMFT-FB-T-83-297] 15 p2366 N84-25196
Change in surface of molybdenum trioxide during its evaporation in an inert atmosphere
[BLL-M-35552-(5828.4)] 17 p2621 N84-26773

MOLYBDENUM SULFIDES
NT MOLYBDENUM DISULFIDES
Role of pressure in understanding the anomalous superconductivity in europium (molybdenum)6(sulfur)8 and (TMTSF)2FSO3
[DE83-017292] 06 p0925 N84-16012
Characteristic morphological and frictional changes in sputtered MoS/sub 2 films
[NASA-TM-83565] 07 p0985 N84-16380
Torque properties of oscillating, dry-lubricated ball bearings in vacuum — spacecraft lubrication
[ESA-ESTL-57] 23 p3758 N84-33820
MOMENT DISTRIBUTION
Backward moving Altarelli-Parisi equations for transverse momentum calculations in jets
[ILL-(TH)-84-10] 11 p1712 N84-21164
MOMENTS
NT BENDING MOMENTS
NT DISTRIBUTION MOMENTS
NT LOADING MOMENTS
NT MAGNETIC MOMENTS
NT MEAN
NT MOMENTS OF INERTIA
NT ORTHOGONALITY
NT PITCHING MOMENTS
NT ROLLING MOMENTS
NT STABILITY DERIVATIVES
NT STANDARD DEVIATION
NT TORQUE
NT YAWING MOMENTS
Preliminary results of the first static calibration of the RSRA helicopter active-isolator rotor balance system
[NASA-TM-84395] 04 p0483 N84-13178
Computer-Aided Structural Engineering (CASE) project. User's guide: Computer program to Calculate Shear, Moment and Thrust (CSMT) from stress results of a two-dimensional finite element analysis
[AD-A134089] 05 p0726 N84-14788
A study to determine the accuracy of 2 computer programs in predicting hinge moments for all movable tail fins on missile bodies
[AD-A133399] 06 p0793 N84-15169
Passive source localization from spatially correlated angle-of-arrival data
[AD-A133141] 06 p0822 N84-15362
On the moments of an additive function
14 p2210 N84-24265
Preliminary method for estimating hinge moments of all-movable controls
[AD-A139726] 15 p2264 N84-24597
Canonic measurements in the classic moment problem 22 p3635 N84-33041
Analytic solution of the Spencer-Lewis angular-spatial moments equations
[AD-A144609] 24 p3962 N84-35089
MOMENTS OF INERTIA
Structural performance of orthogonal tetrahedral truss Space-Station configurations
[NASA-TM-86260] 22 p3542 N84-32422
MOMENTUM
NT ANGULAR MOMENTUM
Stellar winds driven by multi-line scattering
03 p0469 N84-13087
Formation of standing shocks in stellar winds and related astrophysical flows 03 p0469 N84-13088
Metastable superconducting pairs with large momentum
[AD-A136246] 09 p1385 N84-19045
Mass and momentum transport experiments with swirling flow 11 p1610 N84-20541
The influence of large-scale motion on turbulent transport for confined coaxial jets
11 p1610 N84-20542
Momentum dependent line shapes in photoemission
[AD-A137968] 12 p1913 N84-22461
Determination of compressor in-stall characteristics from engine surge transients
[NASA-TM-83639] 13 p1932 N84-22566
Overcoming unobservability in 3-axis stabilization of satellites 15 p2267 N84-24610
Momentum distributions in hcp, bcc, and liquid He-4
[DE84-014679] 23 p3831 N84-34300
Variational objective analyses for cyclone studies
24 p3924 N84-34840
MOMENTUM ENERGY
U KINETIC ENERGY
MOMENTUM THEORY
A contribution to the problem of vortex breakdown
03 p0325 N84-12125
Annular Momentum Control Device (AMCD)
03 p0345 N84-12241
MOMENTUM TRANSFER
Space station control requirements and flywheel system weights for combined momentum and energy storage
03 p0344 N84-12236
The role of momentum transfer to the ambient plasma in critical velocity experiments 05 p0839 N84-14205
Plasma confinement and interaction experiments — Active Magnetospheric Particle Tracers Explorers mission 05 p0841 N84-14218
Combustion at the interface of an oxidizer-fuel slab system 06 p0800 N84-15215
Mass and momentum turbulent transport experiments with confined swirling coaxial jets
[NASA-CR-168252] 08 p1156 N84-17530
Vortex motion in a precombustion chamber with intersecting jets
[AD-A139040] 13 p1956 N84-22717
Vibration Control Of Space Structures VCOSS B: Momentum exchange and truss dampening
[AD-A139910] 15 p2281 N84-24701
Turbulent structure of stably stratified nocturnal slope flows
[AD-A140740] 17 p2734 N84-27378
CALTECH-DOE program on numerical analysis, computing and fundamental studies of motion, energy and mass transfer in fluids
[DE84-008935] 21 p3401 N84-31572
Free charged particle behavior in intense laser fields
[DE84-013700] 22 p3653 N84-33160
Dynamics of heat, mass and momentum transfer in an inductively coupled plasma
[DE84-013499] 22 p3660 N84-33200
New method in elementary particle detection
[AD-A144057] 23 p3822 N84-34240
Dynamics of heat, mass and momentum transfer in an inductively coupled plasma
[DE84-014121] 23 p3828 N84-34282
Momentum distributions in hcp, bcc, and liquid He-4
[DE84-014679] 23 p3831 N84-34300
Substorms in the magnetosphere
23 p3837 N84-34340
MONATOMIC GASES
Atomic hydrogen for low temperature atomic hydrogen masers and in-vacuum dissociators for VLG-11 series masers
[NASA-CR-173506] 14 p2150 N84-23880
Atomic-oxygen stimulated outgassing (A0034)
15 p2271 N84-24635
Interaction of atomic oxygen with solid surfaces at orbital altitudes (A0114) 15 p2271 N84-24636
MONATOMIC MOLECULES
A study of physical processes for space radiation protection
[NASA-CR-173183] 07 p1071 N84-16954
Intermediate energy proton stopping power for hydrogen molecules and monostomic helium gas
07 p1071 N84-16955
Low-energy proton stopping power of N2, O2 and water vapor and deviations from Bragg's rule
07 p1071 N84-16956
A theoretical model for calculation of molecular stopping power 07 p1071 N84-16957
Energy dependence of the yields of ion-induced sputtering of monatomic solids
[IPPJ-AM-32] 07 p1076 N84-16992
Prospects for single-molecule detection in liquids by laser-induced fluorescence
[DE84-001702] 09 p1324 N84-18647
MONEL (TRADEMARK)
A detailed comparison of hydrogen and mercury embrittlement in Monel 400
[AD-A139119] 14 p2127 N84-23753
Bimetal and multimetal galvanic corrosion prediction using long- and short-term polarization curves
[AD-A139893] 15 p2297 N84-24786
MONITORS
NT INFRARED RADIOMETERS
X-ray wear metal monitor
[AD-A131251] 01 p0012 N84-10076
Proposed fast-response oxygen monitoring and control system for the Langley 8-foot high-temperature tunnel
[NASA-TP-2218] 02 p0223 N84-11460
Smarter radiation monitors for safeguards and security
[DE83-015259] 02 p0224 N84-11468
Vibration monitoring using a computer-network approach
[DE83-012123] 02 p0232 N84-11523
Development of a continuous monitor for detection of toxic organic compounds
[PB83-234922] 03 p0378 N84-12461
Techniques of condition monitoring and fault diagnosis in industry 04 p0546 N84-13595
Relativistic-beam pickup test facility
[DE83-017929] 04 p0600 N84-13962
Stimulated Cerenkov radiation beam monitor
[AD-A132817] 05 p0744 N84-14889
ECM (Electronic Counter Measure) signal discrimination and identification techniques
[AD-A133427] 06 p0824 N84-15372
A sine-wave grating controller for vision testing
[AD-A135871] 09 p1318 N84-18610
Acoustic leak detection and ultrasonic crack detection
[DE84-004037] 09 p1328 N84-18670
Smart instrumentation development at Los Alamos
[DE84-003821] 10 p1499 N84-19798
Approach to programming multiprocessing algorithms on the Denelcor HEP
[DE84-005440] 10 p1585 N84-20251
An automated stall-speed warning system
[NASA-TM-84917] 11 p1607 N84-20520
Symposium on Ocean Monitoring held in Tallinn
11 p1670 N84-20895
An automatic sine-wave grating controller to be used for contrast sensitivity testing
[AD-A138294] 12 p1812 N84-21811
Performance monitoring of active solar energy systems
[DE84-000027] 12 p1844 N84-22022
Fault detection and protection system for neutral beam generators on the Neutral Beam Engineering Test Facility (NBETF)
[DE84-006634] 12 p1903 N84-22394
Panoramic sky monitor (PANSKY)
[AD-A139440] 14 p2176 N84-24035
On-line monitoring of the true corrosion rate in power plants
[CISE-2156] 16 p2485 N84-25796
Geoacoustic method for continuous monitoring of stressed-strained state of Earth's crust
17 p2706 N84-27231
Development of an EM-based lifeform monitor
[AD-A140583] 17 p2745 N84-27430
Electrical monitoring of polymerization reactions with the charge-flow transistor
[AD-A142267] 19 p3000 N84-29010
Machine monitoring for turning machine
[DE84-010214] 19 p3003 N84-29029
Runtime detection and description of deadness errors in Ada tasking
[AD-A142239] 19 p3079 N84-29535
Design of a safety monitor system for high explosives machining
[DE84-010101] 20 p3168 N84-30113
Vapor spill pipe monitor
[DE84-011103] 20 p3190 N84-30267
Computer-based transmission monitor and control system
[PB84-202068] 22 p3639 N84-33069
Conceptual design of a monitoring system for the Charters of Freedom
[NASA-CR-173909] 22 p3673 N84-33285
Atmospheric contrast transmittance monitor
[AD-D011167] 23 p3798 N84-34063
Implementation of monitors with macros: A programming aid for the HEP and other parallel processors
[ANL-83-97] 23 p3817 N84-34200
Hubble space telescope component qualification utilizing a residual gas analyzer
24 p3865 N84-34497
MONKEYS
Effects of impact acceleration on somatosensory evoked potentials
[AD-A130280] 01 p0113 N84-10734
Experimentally produced biped monkeys as a model for multipurpose research in gravity biology and physiology
07 p1047 N84-16789
Spacelab 4: Primate experiment support hardware
15 p2348 N84-25092
Thermoregulation: Long-term microwave effects
[AD-A140844] 17 p2745 N84-27432
Comparison of Rhesus monkey and baboon -G sub x acceleration experiments
[AD-A141395] 19 p3063 N84-29436
Walking erect as a factor in development of arterial hypertension in primates 20 p3253 N84-30645
Delayed effects of proton irradiation in Macaca mulatta. 3: Glucose intolerance
[AD-A142289] 20 p3256 N84-30089
Use of primate model in weightlessness bone physiology. Histological approach after iliac crest biopsy
23 p3809 N84-34155
MONOCHROMATIC RADIATION
Ultrasensitive optical rotation and refractive-index measurements
[DE83-018078] 03 p0442 N84-12903
A model for ordinal filtering of digital images
[AD-A134705] 08 p1232 N84-18052
Maximum entropy reconstruction of a volume anomaly from pulse scatter data
[DE84-002463] 08 p1237 N84-18084
MONOCHROMATORS
Research on surface physics and crystallography at NSLS
[DE83-015035] 01 p0155 N84-11017

Generation of monoenergetic positrons
[DE83-015535] 03 p0440 N84-12887
Design of doubly focusing, tunable (5 - 30 keV), wide-bandpass optics made from layered synthetic microstructures
[DE83-015492] 03 p0441 N84-12897
Focusing X-ray monochromator for EXAFS studies in the energy range 4-30 keV
[DE84-001903] 05 p0685 N84-14505
Apparatus based on holographic focusing diffraction grating for measurement of diffraction efficiency of three-dimensional image holograms
21 p3482 N84-32068
Monochromator for continuous spectrum X-ray radiation
[DE84-014239] 23 p3751 N84-33781

MONOCRYSTALS
U SINGLE CRYSTALS

MONOIDS
Some algebraic properties of the monoid of languages and its applications 24 p3955 N84-35040

MONOLITHIC CIRCUITS
U INTEGRATED CIRCUITS

MONOMERS
Synthesis of energetic materials
[AD-A130974] 02 p0200 N84-11299
Characterization of PMR polyimide resin and prepreg
[NASA-CR-168217] 11 p1636 N84-20695
Many electron effects in the photoelectron spectra of condensed nitric oxide
[AD-A136130] 12 p1791 N84-21681
Mobility and molecular ions of dimethyl methyl phosphonate, methyl salicylate and acetone
[AD-A140328] 16 p2555 N84-26395
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-1] 18 p2817 N84-27885
Organosilane polymers. 5: Hydrosilyl-modified polycarbosilane precursors for silicon carbide
[AD-A141545] 19 p2999 N84-29002
Synthesis of energetic materials
[AD-A141495] 19 p3001 N84-29021
Molecular order and solidification processes in organic liquids and solutions
[AD-A141777] 19 p3101 N84-29699
High energy binders
[AD-A142347] 20 p3166 N84-30105
Synthesis of monomers for the preparation of regiospecifically substituted poly(phenylacetylenes) as potential chemical detectors
[AD-A144690] 24 p3889 N84-34628

MONOMOLECULAR FILMS
Immobilization of biomolecules on semiconductor surfaces
[FOA-C-40178-C2(B2,A3)] 06 p0831 N84-15408
Method and apparatus for measuring shear modulus and viscosity of a monomolecular film
[DE84-014502] 23 p3761 N84-33841
The modification of the modulation transfer function by sea slicks measured by L-band radar
23 p3780 N84-33971

MONOPLANES
NT A-6 AIRCRAFT
NT A-7 AIRCRAFT
NT B-52 AIRCRAFT
NT BOEING 707 AIRCRAFT
NT BOEING 737 AIRCRAFT
NT C-130 AIRCRAFT
NT C-135 AIRCRAFT
NT C-140 AIRCRAFT
NT C-141 AIRCRAFT
NT CESSNA 210 AIRCRAFT
NT CV-990 AIRCRAFT
NT F-8 AIRCRAFT
NT F-106 AIRCRAFT
NT IL-62 AIRCRAFT
NT MIRAGE AIRCRAFT
NT OV-1 AIRCRAFT
NT P-3 AIRCRAFT
NT T-2 AIRCRAFT
NT T-38 AIRCRAFT
NT U-2 AIRCRAFT

MONOPOLE ANTENNAS
Electromagnetic near-field computations for a broadcast monopole using Numerical Electromagnetics Code (NEC)
[AD-A135975] 09 p1303 N84-18516
An experimental study of cylindrical antennas radiating in or near a lossy half space
[AD-A138206] 12 p1807 N84-21779
An analysis of the coax-fed monopole in a general medium
[AD-A137981] 12 p1811 N84-21805

MONOPOLES
NT MAGNETIC MONOPOLES

MONOPROPELLANTS
Decomposition of four ammonium nitrate propellants
[AD-A136916] 10 p1470 N84-19601
Asymptotic condensed phase analysis of deflagrating monopropellants with subsurface exothermicity
13 p1946 N84-22656
Condensed phase temperature profiles in deflagrating HMX 13 p1947 N84-22657
Porous catalytic metal plate degeneration bed in a gas generator
[AD-D011078] 21 p3373 N84-31407

MONOPULSE ANTENNAS
Simultaneous nulling in the sum and difference patterns of a monopulse antenna
[AD-A131865] 03 p0361 N84-12347

MONOPULSE RADAR
S-band range tracker and Surveillance Lab interface
[AD-A134730] 08 p1145 N84-17451

MONOSACCHARIDES
NT RIBOSE

MONOTECTIC ALLOYS
Separation processes during binary monotectic alloy production
[NASA-TM-82579] 15 p2295 N84-24773
Influences affecting separation in monotectic alloys under microgravity 17 p2612 N84-26723
Ostwald ripening, interfacial energies and diffusion coefficients in monotectic systems
17 p2613 N84-26727
Filtration theory approach to immiscible alloys solidification 17 p2613 N84-26729

MONOTONE FUNCTIONS
A unified approach to composite MVL with monotonic subfunction
[AD-P002368] 14 p2194 N84-24159
Piecewise monotone interpolation and approximation with generalized polynomials 15 p2402 N84-25416
Canonic measurements in the classic moment problem 22 p3635 N84-33041

MONSOONS
Periodicities in the rainfall patterns of different regions in India
[INPE-2899-PRE/418] 02 p0253 N84-11657
Mechanisms of monsoonal cyclogenesis
03 p0410 N84-12680
Possible tidal modulation of the Indian monsoon onset
[AD-A135441] 08 p1191 N84-17760
Numerical simulation of the forcing of monsoon surges by mid-latitude baroclinic waves
[AD-A136274] 09 p1348 N84-18807
On the onset of the planetary scale monsoon
11 p1684 N84-20986
Interannual variability of Indian monsoon rainfall
12 p1855 N84-22081
Satellite observations of a monsoon depression
[NASA-CR-173590] 16 p2528 N84-26232

MONTANA
Meteorological and climatological approach in determining snowpack accumulation at snow course sites in a Montana watershed
[PB83-226852] 01 p0110 N84-10714
Resource and potential reclamation evaluation: Northeast Montana investigations
[PB84-112390] 09 p1337 N84-18734
Resource and potential reclamation evaluation: Northeast Montana investigations
[PB84-112408] 09 p1338 N84-18735
Water resources data for Montana, water year 1982. Volume 1: Hudson Bay Basin, Missouri River Basin
[PB84-117506] 09 p1339 N84-18749
Water resources data for Montana, water year 1982. Volume 2: Columbia River Basin
[PB84-118561] 09 p1340 N84-18752
Principal facts, base station descriptions and plots for gravity stations on and near the Butte 1 degree x 2 degree quadrangle, Montana
[PB84-168103] 15 p2369 N84-25216
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Malmstrom AFB, Montana
[AD-A141229] 18 p2890 N84-28343
Weather summaries for Coram Experimental Forest, Northwestern Montana: An international biosphere reserve
[PB84-182443] 20 p3248 N84-30615
Retrogenesis of the Basal Zone of the Stillwater Complex, Montana 21 p3439 N84-31818

MONTE CARLO METHOD
Minimum distance estimation of mixture model parameters: Asymptotic results and simulation comparisons with maximum likelihood
[AD-A130426] 01 p0136 N84-10889
Optimization of next-event estimation probability in Monte Carlo shielding calculations
[DE83-012643] 01 p0137 N84-10900
Monte Carlo simulation of shock-induced lattice damage
[DE83-015189] 01 p0154 N84-11016
Monte Carlo computer simulation program (MCHP) supporting a covariance analysis using the STANHP program
[DFVLR-MITT-83-06] 03 p0421 N84-12756
An alternative to the Monte Carlo estimation of network reliability
[AD-A131849] 03 p0427 N84-12800
Estimation of the ridge constant: An approach based on the condition index
[DE83-017955] 03 p0428 N84-12805
Vectorized Monte Carlo photon transport
[DE83-014807] 03 p0434 N84-12843
Monte Carlo calculations of neutron and gamma-ray energy spectra for fusion-reactor shield design: Comparison with experiment
[DE83-016932] 03 p0449 N84-12956
Using simulation to estimate first passage distributions
[AD-A132328] 04 p0590 N84-13898
Lattice gauge theories
[DE83-013114] 06 p0910 N84-15906
Detecting heavy quark jets 06 p0914 N84-15939
HEXANN-EVALU: A Monte Carlo program system for pressure vessel neutron irradiation calculation
[VTT-RR-210] 07 p1073 N84-16975
On the robust rank analysis of linear models with nonsymetric error distributions
[AD-A135792] 09 p1377 N84-18994
Yield enhancement by fault tolerant systolic arrays (summary) 09 p1402 N84-19158
Application of maximum likelihood and Monte Carlo methods to local studies of stellar velocity fields
09 p1409 N84-19211
Exact solution for emission from surface elements of a planet — to spaceborne telescopes
10 p1447 N84-19453
Vectorized Monte Carlo methods for reactor lattice analysis 10 p1559 N84-20216
Chemical application of diffusion quantum Monte Carlo 10 p1560 N84-20218
A highly optimized vectorized code for Monte Carlo simulations of SU(3) lattice gauge theories
10 p1560 N84-20219
Monte Carlo calculations of elementary particle properties 10 p1561 N84-20229
A laboratory investigation of the reflective properties of simulated, optically thick clouds
[NASA-CR-175158] 10 p1578 N84-20336
Monte Carlo study of ICRF start-up and sustained mode operation in tandem mirrors
[DE84-005808] 11 p1738 N84-21338
Achieving chemical accuracy by quantum Monte Carlo
[DE84-005175] 11 p1746 N84-21392
Chemical application of diffusion quantum Monte Carlo
[DE84-005173] 11 p1746 N84-21393
Determination of the mixing potential in alloys from experimental data on short-range order
[BLL-M-35498-(5828.4)] 12 p1795 N84-21709
A solution to the problem of the flow around a circular cylinder between two parallel plates with the Monte Carlo method
[PREPRINT-791] 12 p1817 N84-21846
Equal weights, flat maxima, and trivial decisions
[AD-A138506] 12 p1895 N84-22342
Robust minimum distance estimation of the 3 parameter lognormal distribution
[AD-A138007] 12 p1896 N84-22349
Multiple point source model for three dimensional plume flow fields 13 p1941 N84-22625
Monte Carlo calculations of two-dimensional combustor flows
[AD-A139569] 14 p2123 N84-23724
Tolerance analysis and related measurements on MVL-CCD's (Multiple-valued-Charge-Coupled Devices)
[AD-P002346] 14 p2191 N84-24137
Lateral dispersion of a high-energy ion beam in a scattering medium
[UTIAS-278] 14 p2222 N84-24331
Two methods for calculating the physical optics field
[AD-A139116] 14 p2224 N84-24347
Environmental modeling under uncertainty: Monte Carlo simulation
[IIASA-RR-83-28] 15 p2365 N84-25192
Estimating network reliability with accelerated convergence rates on error bounds
[AD-A139641] 15 p2397 N84-25383
Monte Carlo studies of tandem mirror plasmas interacting with waves in the Ion Cyclotron Range of Frequencies
[DE84-008901] 18 p2934 N84-28605
Study of e-beam propagation in the ionosphere and magnetosphere
[AD-A142206] 19 p3054 N84-29380

A radiative transfer model for remote sensing of laser induced fluorescence of phytoplankton in non-homogeneous turbid water
[NASA-CR-173777] 19 p3063 N84-29432
Application of the direct simulation Monte Carlo method to mass spectrometer flow
[AD-A142326] 19 p3094 N84-29647
The transfer of atoms, ions and molecular groups in solution. Part 3: Monte Carlo methods for the evaluation of rate constants
[AD-A142335] 20 p3147 N84-29983
Monte Carlo simulation of the microcanonical ensemble
[DE84-010680] 20 p3295 N84-30923
Numerical calculations in quantum field theories
[DE84-010692] 21 p3507 N84-32217
MECA: A supercomputer for Monte Carlo
[DE84-014129] 22 p3638 N84-33066
Analysis of microstrip line tolerance using the Monte-Carlo method
[INPE-2814-PRE/370] 23 p3740 N84-33705
Weak coupling tests of lattice QCD
[DE84-013440] 23 p3831 N84-34299
A simulation process for determining reliability of cyclic random loaded structures
[AD-P003849] 24 p3939 N84-34936

MONTEREY BAY (CA)
A model for tidal circulation adapted to Monterey Bay, California
[AD-A135077] 09 p1351 N84-18827

MONTH
Monthly variation of 200 MB flow in the tropics
[INPE-2953-PRE/435] 07 p1032 N84-16695

MOON
Tidal and lunar data for Point Mugu, San Nicolas Island and the Barking Sands area, 1984
[AD-A135243] 09 p1351 N84-18828
Origin of the Moon: In search of the holy grail — volcanic glass 11 p1754 N84-21451
Activities at the Lunar and Planetary Institute
[NASA-CR-173528] 14 p2166 N84-23974
Callisto: A lunar-like bombardment?
15 p2426 N84-25575
Sun/Moon capture evaluation
[AD-P003160] 17 p2588 N84-26591
Generalized model of lunar gravitational field
19 p2975 N84-28860
Optical studies of moon rock samples at various degrees of maturity 19 p2975 N84-28861
Morphologic studies of the Moon and planets
[NASA-CR-173886] 22 p3678 N84-33319
A geographic comparison of selected large-scale planetary surface features
[NASA-TM-86147] 22 p3679 N84-33320
Terra scarps indicating youngest terra faults on the Moon 23 p3841 N84-34365
Meteorite bombardment and dating of planetary surfaces
[NASA-TM-77558] 24 p3991 N84-35260

MOORING
The OTEC (Ocean Thermal Energy Conversion) mooring technology
[PB83-221168] 01 p0060 N84-10396
The long term upper ocean study (LOTUS). Cruise summary and hydrographic data report, ENDEAVOR 97, April 1983
[AD-A134005] 06 p0883 N84-15745
Observational evidence for an eddy-driven deep circulation in the North Atlantic
[AD-P002660] 11 p1690 N84-21025

MOORINGS
U MOORING

MOPS (PROPULSION SYSTEMS)
U MAN OPERATED PROPULSION SYSTEMS

MORAINES
U GLACIAL DRIFT

MORALE
Cohesion in the US military
[AD-A140828] 17 p2747 N84-27439
The effects of REFORGER (return of forces to Germany) exercise participation on soldiers' attitudes
[AD-P003260] 18 p2906 N84-28427

MORPHINE
The interactive effects of morphine and ionizing radiation on the latency of tail-withdrawal from warm water in the rat
[AD-P003251] 18 p2904 N84-28418
Quaternary naltrexone reverses radiogenic and morphine-induced locomotor hyperactivity
[AD-P003252] 18 p2905 N84-28419

MORPHOLOGY
NT GEOMORPHOLOGY
NT ISOMORPHISM
High-latitude F-region irregularities: Intensity and scale size distributions
[AD-A130889] 01 p0105 N84-10684
Dynamical evolution of substucture in molecular clouds 03 p0462 N84-13043
Formation of structure of low-alloy steel inoculated with rare-earth metals and alkaline-earth metals
[BLL-M-35321] 04 p0497 N84-13258
Topics in graphite intercalation chemistry with applications to fiber reinforced composites
05 p0646 N84-14248
Homogenizing properties of diblock polymers in blends of corresponding homopolymers
[AD-A132832] 05 p0659 N84-14334
Proceedings of the 13th Conference on Environmental Toxicology
[AD-A134150] 07 p1027 N84-16657
Evaluation of human blood morphological composition during exercise in sealed chamber with different concentrations of ammonia 07 p1045 N84-16779
Morphology and movements of polarization features on Venus
[NASA-CR-166464] 08 p1245 N84-18137
Effect of transformed beta morphology and other structural features on mechanical properties in Ti-6Al-4V
[AD-A136028] 09 p1283 N84-18382
Simulating certain aspects of hypogravity: Effects on the mandibular incisors of suspended rats (PULEH model) 09 p1353 N84-18844
Morphological and histochemical studies of bone and cartilage during periods of stimulated weightlessness
09 p1354 N84-18847
The role of gravity in leaf blade curvatures
09 p1357 N84-18865
A study of the solidification parameters influencing structures and properties in MAR-M246(Hf)
[NASA-TM-82569] 11 p1633 N84-20675
Frictional and morphological properties of Au-MoS2 films sputtered from a compact target
[NASA-TM-83604] 11 p1664 N84-20858
Contribution of standard X-ray to cardiovascular exploration during the clinical examination of flying personnel 11 p1700 N84-21088
The luminosity function of galaxies in CO-12
13 p2071 N84-23424
Morphology of buried craters: Lava thickness estimates by simulated flooding 13 p2079 N84-23471
Chronology, morphology and stratigraphy of pumiceous pyroclastic-flow (ignimbrite) deposits from the eruption of Mount St. Helens on 18 May 1983
13 p2080 N84-23476
Mercury: Topographic and geologic data from Earth-based radar observations
13 p2089 N84-23533
Surface and bulk phase separations in block copolymers and their blends
[AD-A140020] 15 p2302 N84-24815
Morphological study of primate muscle fibers and microcirculation during head-down hypokinesia
15 p2377 N84-25262
Structural distinctions of thyroid C cells and parathyroid glands of primates during head-down hypokinesia
15 p2377 N84-25263
Mechanical behavior of ultra high molecular weight polyethylene
[PB84-175536] 16 p2473 N84-25851
Thin film models of SMSI (Show Strong Metal-Support Interactions) catalysts: Pt on oxidized titanium
[AD-A140569] 17 p2767 N84-27572
Morphological skeleton representation and coding of binary images
[AD-A142250] 19 p3079 N84-29536
Characterization of block copolymers based on poly(3,3 -bis(ethoxymethyl)oxetane) and other novel polyethers
[AD-A142606] 20 p3162 N84-30081
Effect of charging methods on battery electrodes
[DE84-010287] 20 p3179 N84-30196
One method of assessing the validity of organizational-systems modelling
[BLL-M-35605-(5828.4)] 21 p3508 N84-32222
Aggradation and degradation at alluvial-channel beds
[PB84-201557] 22 p3615 N84-32905
The octahedron-rhombododecahedron morphological series of synthetic diamond crystals
[CSIR-TRANS-1746] 22 p3661 N84-33205
Carbide phases in high-temperature nickel-hafnium alloys 24 p3871 N84-34532

MORPHOTROPISM
U ISOMORPHISM

MORTALITY
STS-5 (Space Transport System-5) fish kill, Kennedy Space Center, Florida
[AD-A132958] 05 p0700 N84-14595
Mortality and spareparts: A conceptual analysis
[AD-P002626] 13 p2062 N84-23371
Correlation between plasma fibronectin level and mortality following experimental rate heat stress
[AD-A143383] 22 p3628 N84-32991

MOS (JAPANESE SPACECRAFT)
U JAPANESE SPACECRAFT

MOS (SEMICONDUCTORS)
U METAL OXIDE SEMICONDUCTORS

MOSAICS
Spatial filtering for enhancing point targets in images from a space-based mosaic IR detector
[AD-A132248] 04 p0521 N84-13425
A gallery of HCMM images 05 p0696 N84-14567
Galilean satellite multispectral data base production
13 p2087 N84-23521

MOSFET
U FIELD EFFECT TRANSISTORS

MOSS (SPACE STATIONS)
U ORBITAL SPACE STATIONS

MOSSBAUER EFFECT
Moessbauer spectroscopy study of amorphous Fe67B11Au2 ribbon and its crystallization products
[DE83-016091] 06 p0924 N84-16010
General cases of the pseudoquadrupole interaction in (169)Tm
[DE83-015685] 07 p1082 N84-17040
Crystal fields and second order magnetic hyperfine interactions in TmFe2Si2
[DE84-003622] 08 p1238 N84-18078
CO + H/sub 2 reaction over nitrogen-modified iron catalysts
[DE84-009046] 15 p2288 N84-24727
Feasibility studies of Conversion Electron Moessbauer Spectroscopy (CEMS) of iron-doped InP
[AD-A142463] 20 p3309 N84-31014
Studies of structural properties and their relationship to critical parameters in superconducting materials
[AD-A143556] 22 p3664 N84-33227
Study of superfine interactions in amorphous chromium-containing alloys by Mossbauer spectroscopy
24 p3877 N84-34565

MOTHS
The Pennsylvania defoliation application pilot test
[E84-10111] 13 p2004 N84-23004
Gypsy moths and American dog ticks: Space partners
18 p2800 N84-27768

MOTILITY
U LOCOMOTION

MOTION
Morphology and movements of polarization features on Venus
[NASA-CR-166464] 08 p1245 N84-18137
An intersection algorithm for moving parts
12 p1871 N84-22193
Perception of the movement of visual scenes during horizontal body rotation
[NAL-TR-787] 16 p2538 N84-26292
A study of methods to predict and measure the transmission of sound through the walls of light aircraft. A survey of techniques for visualization of noise fields
[NASA-CR-173917] 22 p3652 N84-33146
The calculation of the radar vertical coverage diagram
[AD-A143647] 23 p3731 N84-33645

MOTION EQUATIONS
U EQUATIONS OF MOTION

MOTION PERCEPTION
Integrated Cuing Requirements (ICR) study: Demonstration data base and users guide
[AD-A131119] 03 p0459 N84-13019
Optical flow and texture variables useful in simulating self motion (2)
[AD-A133597] 06 p0899 N84-15779
Oculometric indices of simulator and aircraft motion
[NASA-CR-3801] 16 p2537 N84-26291
Interactions of motion perception with pattern perception
[AD-P003363] 18 p2913 N84-28476
Visual information transfer. 1: Assessment of specific information needs. 2: The effects of degraded motion feedback. 3: Parameters of appropriate instrument scanning behavior
[NASA-CR-173913] 22 p3633 N84-33020

MOTION PICTURES
Optical surveillance for international safeguards: Present and future
[DE83-014278] 02 p0223 N84-11465
Super 8 film scanning set by using a CCD-line
[BMFT-FB-T-83-249] 10 p1483 N84-19697
Method of reducing temperature in high-speed photography
[NASA-TM-83620] 12 p1907 N84-22421
Requirements to be met by parameters of high-definition television systems for cinematography
17 p2633 N84-26841
Computer generated animation and movie production at LARC: A case study
[NASA-CR-172375] 18 p2917 N84-28494

MOTION SICKNESS
Motion sickness incidence: Distribution of time to first emesis and comparison of some complex motion conditions
[AD-A131930] 04 p0573 N84-13772
Biomedical Research Division significant accomplishments for FY 1983
[NASA-TM-85929] 10 p1545 N84-20128
Physiological data acquisition system and motion sickness prevention trainer
[AD-A136361] 12 p1865 N84-22153
Motion sickness — literature study
[IZF-1983-21] 12 p1866 N84-22158
Airsickness during Naval flight officer training: Fleet readiness squadrons
[AD-A138973] 14 p2185 N84-24095
Motion illness: A bibliography
[AD-A139342] 15 p2379 N84-25276
Perception of the movement of visual scenes during horizontal body rotation
[NAL-TR-787] 16 p2536 N84-26292

MOTION SICKNESS DRUGS
Motion illness: A bibliography
[AD-A139342] 15 p2379 N84-25276

MOTION SIMULATION
Real visual image compensation for head motion parallax effects as a function of object distance
[AD-A132915] 05 p0720 N84-14717
Motion simulation with a G-seat system: Sensory and performance mechanisms
[AD-P003267] 18 p2907 N84-28432
OMV: A simplified mathematical model of the orbital maneuvering vehicle
[NASA-CR-171123] 20 p3134 N84-29902

MOTION SIMULATORS
Effects of motion base and g-seat cueing of simulator pilot performance
[NASA-TP-2247] 09 p1255 N84-18189
A pilot/vehicle model analysis of the effects of motion cues on Harrier control tasks
[AD-A136291] 09 p1258 N84-18209
A torque motor for a low friction single axis turntable — satellite attitude control tests
[NLR-MP-82036-U] 12 p1778 N84-21603
Oculometric indices of simulator and aircraft motion
[NASA-CR-3801] 16 p2537 N84-26291
Analysis and selection of a remote docking simulation visual display system
[NASA-CR-171148] 23 p3698 N84-33432

MOTION STABILITY
NT AERODYNAMIC STABILITY
NT AIRCRAFT STABILITY
NT ATTITUDE STABILITY
NT BOUNDARY LAYER STABILITY
NT DIRECTIONAL STABILITY
NT FLAME STABILITY
NT FLOW STABILITY
NT GYROSCOPIC STABILITY
NT LATERAL STABILITY
NT LONGITUDINAL STABILITY
NT MAGNETOHYDRODYNAMIC STABILITY
NT ROTARY STABILITY
NT SPACECRAFT STABILITY
Base line for determining local, small-scale vertical movements in Louisiana
[DE84-002569] 05 p0704 N84-14619
Stabilization of a flexible body (hoop-column) antenna by feedback control law 14 p2245 N84-24478

MOTIVATION
NT CONTRACT INCENTIVES
Motivating managers: A guide to performance targeting and performance-based pay in state and local governments
[PB83-237834] 02 p0301 N84-11978
The design of effective reward systems
[AD-A132859] 06 p0934 N84-16067
Motivation and performance appraisal behavior
[AD-A134311] 08 p1203 N84-17842
Performance feedback effects under varying conditions of goals, feedback type, and choice
[AD-A136703] 10 p1550 N84-20157
Performance consistency on a perceptual-motor task as a correlate of achievement motivation
[AD-A135933] 10 p1552 N84-20170
Sustained military operations with particular reference to prolonged exercise 11 p1699 N84-21081
Motivation and work performance: A comparative and analytical study 17 p2747 N84-27441
The effects of task variability, sensory reinforcement, and monetary reinforcement on performance, satisfaction, and intrinsic motivation 17 p2769 N84-27584
Affective determinants of job perceptions
[AD-P003258] 18 p2905 N84-28425
Individualizing with Computer-Assisted Instruction (CAI): Enhancing student motivation through computer-controlled audio
[AD-P003314] 18 p2909 N84-28453
Psychophysiological aspects of monotonous human activity 21 p3453 N84-31911
Sensitivity to hypoxia in humans 21 p3456 N84-31934

MOTOR SYSTEMS (BIOLOGY)
U EFFERENT NERVOUS SYSTEMS

MOTOR VEHICLES
NT AUTOMOBILES
NT ELECTRIC AUTOMOBILES
NT ELECTRIC MOTOR VEHICLES
NT TRACTORS
NT TRUCKS
Evaluation of motor vehicle and other combustion emissions using short-term genetic bioassays
[PB83-233270] 01 p0112 N84-10731
Controlling emissions from light-duty motor vehicles at high elevations. A report to Congress
[PB83-204883] 01 p0164 N84-11074
Optimum engine for methanol utilization
[PB83-239459] 03 p0385 N84-12507
Ragone characteristics of aqueous mobile batteries and their application in projecting ranges of electric vehicles
[DE83-014701] 03 p0404 N84-12642
Humidity measurement comparison tests: Dew point hygrometer versus wet bulb psychrometer
[PB83-237487] 04 p0539 N84-13546
Assessment of institutional barriers to the use of natural gas fuel in automotive vehicle fleets
[NASA-CR-168183] 05 p0699 N84-14587
An analysis of carbon monoxide emissions as a function of ambient temperature and vehicle parameters
[PB84-103829] 08 p1167 N84-17599
The relationship between vehicle fuel temperature and ambient temperature. 1981 CRC (Coordinating Research Council) Kapuskasing field test
[AD-A136948] 10 p1470 N84-19602
USSR report: Transportation
[JPRS-UTR-84-004] 14 p2093 N84-23551
USSR report: Transportation
[JPRS-UTR-84-016] 17 p2598 N84-26652
USSR report: Transportation
[JPRS-UTR-84-024] 21 p3329 N84-31119
Splash and spray from road vehicles and associated topics: A bibliography
[CAR-8425] 21 p3398 N84-31557
USSR report: Transportation
[JPRS-UTR-84-026] 23 p3687 N84-33368

MOTORS
NT ELECTRIC MOTORS
NT INDUCTION MOTORS
NT STEPPING MOTORS
NT SYNCHRONOUS MOTORS
NT TORQUE MOTORS

MOUNTAINS
NT ALPS MOUNTAINS (EUROPE)
NT ANDES MOUNTAINS (SOUTH AMERICA)
NT APPALACHIAN MOUNTAINS (NORTH AMERICA)
NT BIGHORN MOUNTAINS (MT-WY)
NT BLACK HILLS (SD-WY)
NT CASCADE RANGE (CA-OR-WA)
NT HIMALAYAS
NT SAN JUAN MOUNTAINS (CO)
NT SIERRA NEVADA MOUNTAINS (CA)
NT WIND RIVER RANGE (WY)
Structure of the Saint Francois Mountains and surrounding lead belt, south east Missouri: Inferences from thermal IR and other data sets
[E84-10027] 01 p0099 N84-10645
Prevention of acute mountain sickness by dexamethasone
[AD-A131533] 01 p0114 N84-10737
A subsynoptic environment associated with two inter-mountain severe thunderstorm events
[DE83-014498] 03 p0412 N84-12694
Reflection and identification studies applied to terrain imaging radar
[AD-A132401] 04 p0520 N84-13419
Spatial reasoning to determine stream network from LANDSAT imagery
[E84-10063] 06 p0865 N84-15632
Preliminary analysis of results of a mountain area atmospheric diffusion test
[AD-A136502] 09 p1342 N84-18765
Investigation of the equatorial orographic-dynamic mechanism applying the bounded derivative method 12 p1854 N84-22078
WNDCOM: Estimating surface winds in mountainous terrain
[PB84-157700] 13 p2018 N84-23083
Geology of Maxwell Montes, Venus 13 p2077 N84-23460
Surveying in Antarctica during the International Geophysical Year 14 p2161 N84-23942
Geology of the Neptune Range, Antarctica 14 p2162 N84-23946
Proterozoic to mesozoic mobile-belt geology, Pensacola Mountains, Antarctica 14 p2162 N84-23947
Sedimentology of the Horlick Formation (Lower Devonian), Ohio Range, Transantarctic Mountains 14 p2162 N84-23948
Program for mapping Antarctica 14 p2163 N84-23954
Glaciation in Arctic Alaska 14 p2165 N84-23965
Studies of the behavior of a snow cover on mountain slope. 12: Curves Csubh and Csubv in a wedge-shaped snow cover 15 p2353 N84-25115
Studies of the behavior of a snow cover on mountain slope. 13: Curves Csubh and Csubv in a circular snow cover 15 p2353 N84-25116
Turbulent structure of stably stratified nocturnal slope flows
[AD-A140740] 17 p2734 N84-27378
Targeting geothermal exploration sites in the Mount St. Helens area using solid mercury surveys
[DE84-012547] 20 p3229 N84-30519
Cirques of the Marble Mountains, northwestern California 23 p3795 N84-34065
Interpretations of magnetic anomalies at a potential repository site located in the Yucca Mountain area, Nevada test site
[DE84-013723] 23 p3798 N84-34085

MOUNTING
Investigation of effects of microphone position and orientation on near-ground noise measurements
[NASA-TP-2004] 01 p0139 N84-10913
Inflatable device for installing strain gage bridges
[NASA-CASE-FRC-11068-1] 03 p0375 N84-12443
Clamp-mount device
[NASA-CASE-MFS-25510-1] 07 p1011 N84-16560
Hot melt adhesive pad surface attachment assembly concept for on-orbit operations
[NASA-TM-85771] 12 p1777 N84-21598
Double arch mirror study. Part 2: Engineering analysis report
[NASA-CR-166589-PT-2] 21 p3412 N84-31635
Double arch mirror study. Part 3: Fabrication and test report
[NASA-CR-166589-PT-3] 21 p3412 N84-31636
Double arch mirror study
[NASA-CR-166589] 21 p3412 N84-31637
Aircraft loading adapter for use with ordnance lift vehicle
[AD-D011147] 23 p3696 N84-33421
Mounting arrangement for an inertial measurement unit
[AD-D011148] 23 p3750 N84-33770
Model mount system for testing flutter
[NASA-CASE-LAR-12950-1] 24 p3856 N84-34448

MOUNTS
U SUPPORTS

MOVEMENT
U MOTION

MOVING TARGET INDICATORS
Optimum multisensor, multitarget localization and tracking
[AD-A129605] 01 p0139 N84-10914
Moving finite elements in 2-D
[AD-A132700] 05 p0736 N84-14831
A multiple leg TMA (Target Motion Analysis) procedure with programs for the Hewlett-Packard HP-41CV, the Hewlett-Packard HP-75C, the sharp pC-1500 (TRS-80 pC and the Radio Shack TRS-80 model 100 portable computers
[AD-A134870] 08 p1213 N84-17912
On a simple adaptive tracking filter
[AD-A138955] 13 p2033 N84-23186
Range-Doppler Moving Target Indicator (MTI) analysis and assessment
[AD-A139579] 14 p2141 N84-23836
Estimation of the flight parameters of low flying aircraft using the radiated noise
[LFD-211] 15 p2259 N84-24569
Tracking with intermittent radar coverage. 1: Interruptions after each collected frame of imagery
[AD-P003322] 18 p2910 N84-28458
Tracking with intermittent radar coverage. 2: Interruptions after two or more consecutively-collected frames of imagery
[AD-P003323] 18 p2910 N84-28459
The visibility of stationary and moving targets in the plane subject to a Poisson field of shadowing elements
[AD-A141305] 18 p2927 N84-28562
The approximate solution of a simple constrained search path moving target problem using moving horizon policies
[AD-A142164] 19 p3089 N84-29612

Simple MTI using synthetic aperture radar — moving target imaging (MTI) 23 p3765 N84-33868

MRCA AIRCRAFT
Concepts for avionic and weapon integration facilities 06 p0774 N84-15070
MRCA run-in floors 14 p2093 N84-23557
Aeroelastic problems caused by tornados and their successful treatment with technologies that result from experiences of precedent intensive technologic modernizing [MBB-FE-294/S/PUB/110] 19 p3035 N84-29253
A technique to determine lift and drag polars in flight 24 p3848 N84-34402
Aircraft tests in the clearance program for the use of a combat aircraft from a runway after damage repair 24 p3848 N84-34404
Flight test techniques used for proof of structural integrity of Tornado when carrying external stores 24 p3849 N84-34413

MTBF
Inspection of products for reliability indicators 18 p2824 N84-27926
Availability of the DSN telemetry data system and its major elements, including the TWM assemblies 22 p3575 N84-32639
A study of DSN traveling wave maser system reliability 22 p3575 N84-32640

MTF
U MODULATION TRANSFER FUNCTION

MTI RADAR
U MOVING TARGET INDICATORS

MUBIS (SCANNERS)
U MULTIPLE BEAM INTERVAL SCANNERS

MUD
Planetary geomorphology field studies: Washington and Alaska 13 p2084 N84-23501

MUFFLERS
Use of the one-dimensional theory of the filament of flow for the interpretation and synthesis of mufflers in exhaust pipes of internal combustion engines [REPT-81.4] 03 p0383 N84-12494

MULLITES
Silicon carbide fiber/mullite composites from rapidly solidified aluminosilicate powder [AD-A140529] 16 p2469 N84-25825

MULTI-ROLE COMBAT AIRCRAFT
U MRCA AIRCRAFT

MULTIBEAM ANTENNAS
Design of microwave beam-switching networks [AD-A137240] 10 p1478 N84-19661
Moebius r-2R lens [AD-P003511] 21 p3385 N84-31479
RF design and performance of a multibeam, multiband antenna [AD-P003512] 21 p3385 N84-31480

MULTICHANNEL COMMUNICATION
Research in net management techniques for tactical data networks [AD-A131674] 03 p0361 N84-12352
Ultra low loss optical fiber cable assemblies, volume 2 [AD-A132008] 03 p0440 N84-12891
Ultra low loss optical fiber cable assemblies, volume 1 [AD-A132007] 03 p0440 N84-12892
Multiwavelength bidirectional coupler-decouplers [AD-A132908] 05 p0747 N84-14907
Study of finitistic channel models [AD-A136139] 09 p1303 N84-18521
Improving frequency utilization efficiency in time and space with isofrequency multiple access networks in private systems of cellular type — mobile radio systems 10 p1477 N84-19648
Multiple access mobile radio systems for private networks 10 p1477 N84-19654
The night airglow O2(1-Sigma) atmospheric band at 8645A and the rotational temperature observed at 23 deg S [INPE-3021-PRE/459] 12 p1846 N84-22034
Multichannel detection systems available for flow diagnostics at AEDC [AD-A132302] 16 p2452 N84-25722
Optical signal processing for surveillance [AD-A140957] 18 p2932 N84-28591

MULTICHANNEL PLATES
U MICROCHANNEL PLATES

MULTILAYER INSULATION
Development of an improved protective cover/light block for multilayer insulation [NASA-TM-82563] 06 p0809 N84-15269
Heat transfer retardation at elevated temperatures. Phase 1: Analysis of heat transfer retardation configurations and materials [AD-A133509] 06 p0826 N84-16017
OTS 2: Five years of thermal testing on a satellite in a geostationary orbit 10 p1446 N84-19446
Evaluation of propellent tank insulation concepts for low-thrust chemical propulsion systems: Executive summary [NASA-CR-168321] 11 p1636 N84-20699
Chemical deposition of SiO2 on InP [AD-A138355] 12 p1914 N84-22472

MULTILAYER STRUCTURES
U LAMINATES

MULTILOOP SYSTEMS
U CASCADE CONTROL

MULTIMISSION MODULAR SPACECRAFT
Analysis of the acquisition costs of uniquely-built spacecraft versus multi-mission modular spacecraft surrogates for the military space program of the 1970's [AD-A141120] 19 p3114 N84-29785

MULTIPACTOR DISCHARGES
Surface properties of metal-nitride and metal-carbide films deposited on Nb for RF superconductivity [DE84-001491] 04 p0614 N84-14055
Semiconductor multipactor device [AD-D011067] 19 p3017 N84-29125

MULTIPATH TRANSMISSION
Two-layer model of line-of-sight refractive multipath propagation [AD-A130474] 01 p0064 N84-10418
Digital microwave transmission tests at the Pacific Missile Test Center, Pt. Mugu, California [PB83-251454] 05 p0671 N84-14412
Urban millimeter wave propagation studies [AD-A134465] 07 p0993 N84-16439
Computerized simulation of multipath fading for mobile radio systems 10 p1477 N84-19647
Analysis of receivers provided with equalizers for digital radio links in the presence of multipath fading [FUB-56-1982] 10 p1483 N84-19691
Analysis of the behavior of some types of synchronizer for numerical radio links in the presence of atmospheric multipath transmission [FUB-57-1982] 10 p1483 N84-19692
Multipath link and modem design for satellite mobile communications [ESA-CR(P)-1833] 12 p1809 N84-21793
Multipath propagation at 11, 18, and 36 GHz due to ducting [FOA-C-20511-E2] 12 p1810 N84-21800
A model of radar propagation and detection [AD-A139531] 14 p2141 N84-23834
Estimation of channel capacity of the time variable multipath channel [LFD-208] 15 p2318 N84-24912
D-1 statistical model of tropospheric multipath propagation 15 p2322 N84-24944
A GaAs refractometer for tropospheric studies 15 p2324 N84-24952
Prediction of multipath fading on terrestrial microwave links at frequencies of 11 GHz and greater 15 p2324 N84-24953
Effect of leap length on the quality of large capacity numerical linkages 15 p2324 N84-24954
Multipath outage performance of digital radio receivers using finite-tap adaptive equalizers 15 p2324 N84-24955
Spherical propagation models for multipath-propagation predictions 15 p2324 N84-24956
Error response of a trapezoidal pulses DME technique disturbed by multipath effects and noise [ESA-TT-747] 16 p2482 N84-25915
Multiple path static routing protocols for packet switched networks [AD-A140166] 16 p2483 N84-25919
The identification and inversion of acoustic multipath data at long range in the ocean [AD-P003123] 16 p2533 N84-26264
Height profile of the field strength of reception by multipath propagation in the cm wave range [FI-455-TBR-75] 19 p3010 N84-29081
Hoop/column antenna: RF verification model. Volume 1: Test results [NASA-CR-172412] 21 p3382 N84-31483

MULTIPHASE FLOW
NT TWO PHASE FLOW
Turbulence modelling: A state-of-the-art review [CFD/83/3] 03 p0374 N84-12435
Turbulent mixing and combustion of multi-phase reacting flows in ramjet and ducted rocket environment [AD-A133802] 05 p0632 N84-14152
Perturbation solution for gas flow in a tapered rotor [DE84-002930] 07 p1003 N84-16507
Multi-dimensional, multiphase flow analysis of flamespreading in a stick propellant charge 13 p1948 N84-22663
Multiphase flow analysis of the ballistic performance of an anomalous LOVA propellant mix 13 p1950 N84-22679
Proc. of a Course of Lectures and Computer Workshops on Computer Simulation of Multi-Phase Flows [CFD/83/4] 18 p2838 N84-28012
Energy release and fluid dynamics in multiphase systems [AD-A142402] 20 p3184 N84-30228
Study of ebullated bed fluid dynamics [DE84-010230] 20 p3187 N84-30251
Fundamental mechanisms of multi-phase flow erosion/corrosion of solid surfaces [AD-A143041] 21 p3366 N84-31355

MULTIPHOTON ABSORPTION
Chaos in semiclassical model of multiphoton excitation of spherical top molecules [DE83-014201] 02 p0289 N84-11897
Laser detection of chemical agents [AD-A136122] 12 p1820 N84-21865
Study of VUV generation by coherent resonant frequency mixing in metal vapors [AD-A140800] 17 p2663 N84-26989
Optical stark effect in the 2-photon spectrum of NO [NASA-TM-85964] 21 p3492 N84-32131

MULTIPLE ACCESS
NT ALOHA SYSTEM
NT CODE DIVISION MULTIPLE ACCESS
NT FREQUENCY DIVISION MULTIPLE ACCESS
NT TIME DIVISION MULTIPLE ACCESS
Acquisition, image and data compression [AD-A131923] 03 p0360 N84-12344
Processing elements [AD-A131068] 03 p0420 N84-12743
Advanced teleprocessing systems [AD-A133525] 06 p0824 N84-15375
Advanced teleprocessing systems [AD-A133554] 06 p0825 N84-15377
Performance evaluation and control of distributed computer communication networks [AD-A135121] 08 p1215 N84-17928
Robust procedures for communication data [AD-A136540] 09 p1299 N84-18493
Improving frequency utilization efficiency in time and space with isofrequency multiple access networks in private systems of cellular type — mobile radio systems 10 p1477 N84-19648
Fundamental issues of multiple accessing [AD-A136676] 10 p1481 N84-19675
Multiple access adaptive antennas 13 p1976 N84-22823
Connector and cable assembly specifications for the SHAPE fiber optic network [AD-A141280] 18 p2932 N84-28593
Random multiple access methods in multi-user communication systems 22 p3571 N84-32616

MULTIPLE BEAM INTERVAL SCANNERS
Offset-reflector with horn feed array as an experimental sensor for radiometric measurements [DFVLR-FB-83-16] 02 p0211 N84-11379
Channel tracking errors and the adaptive multiple-beam antenna [AD-A134596] 07 p0994 N84-16443

MULTIPLE DOCKING ADAPTERS
Development of robotics facility docking test hardware [NASA-CR-171153] 23 p3698 N84-33433

MULTIPLETS
U FINE STRUCTURE

MULTIPLEX TRANSMISSION
U MULTIPLEXING

MULTIPLEXERS
U MULTIPLEXING

MULTIPLEXING
NT FREQUENCY DIVISION MULTIPLEXING
NT TIME DIVISION MULTIPLEXING
NT WAVELENGTH DIVISION MULTIPLEXING
Engineering evaluations and studies. Volume 3: Exhibit C [NASA-CR-171727] 06 p0794 N84-15177
Advanced aircraft electrical system control technology demonstrator. Phase 1: Requirements analysis & preliminary design. Phase 2: Detailed design [AD-A136758] 10 p1428 N84-19337
Interface control document for RT-XXXX/ARC-164 UHF-AM radio [AD-A136970] 10 p1481 N84-19681
The development and fabrication of an implantable, multiplexed, semiconductor multielectrode array [AD-A138788] 13 p1986 N84-22895
A circuit design for multiplexed digital correlation at 60 MHz [AD-A139117] 14 p2142 N84-23842
Ion implanted GaAs IC. Process technology [AD-A139348] 14 p2242 N84-24461
An experimental system of FM data-broadcasting [NHK-SERIAL-293] 15 p2319 N84-24919
Integrating IR detector imaging systems [NASA-CASE-NPO-15805-1] 18 p2932 N84-28590

Aircraft multiplexing system architecture and stores compatibility
[AD-P003530] 21 p3331 N84-31134
Single chip MIL-STD-1553B bus interface unit keeps pace with chip sets
[AD-P003537] 21 p3332 N84-31141
MIL-STD-1553: Testing and test equipment
[AD-P003545] 21 p3333 N84-31149
Applique rate converter
[AD-D011161] 23 p3751 N84-33777
Selections on CSSR electronics, computer technology: MHB8604 integrated circuit 23 p3813 N84-34179
Correlation spectrometer having high resolution and multiplexing capability
[NASA-CASE-NPO-15558-1] 24 p3901 N84-34705
Photothermal analysis of thin films
[AD-A144472] 24 p3967 N84-35120

MULTIPLICATION
Fast arithmetic operations on numbers and polynomials 08 p1224 N84-17992
Modular matrix multiplication on a linear array
[AD-A139652] 15 p2400 N84-25404
Economical multiplication of Boolean equations 21 p3484 N84-32079
On square-full integers in a short interval
[MATHS-RES-170] 23 p3818 N84-34212
Method of acceleration of arithmetic calculations 24 p3941 N84-34949
High-performance specialized processors for calculation of elementary and special functions 24 p3941 N84-34950

MULTIPLIER PHOTOTUBES
U PHOTOMULTIPLIER TUBES

MULTIPLIERS
NT CHANNEL MULTIPLIERS
Topics in the optimization of millimeter-wave mixers
[NASA-TP-2287] 11 p1645 N84-20758
A quaternary cellular array complex number multiplier
[AD-P002362] 14 p2193 N84-24153
An extension of deLeeuw's theorem to the N-dimensional rotation group 22 p3636 N84-33046
Completely continuous multipliers from L sub 1 (G) into L sub infinity (G) 22 p3636 N84-33047

MULTIPOLAR FIELDS
Multidipole magnetic fields for plasma confinement
[DE83-016014] 03 p0450 N84-12960

MULTIPOLES
Etched cavity SAW (Surface Acoustic Wave) resonator elements for multipole filter applications
[AD-A131002] 02 p0288 N84-11866
MHD equilibrium and stability of rotating FRCs with excluded multipole fields
[DE84-007477] 20 p3284 N84-30853

MULTIPROCESSING (COMPUTERS)
NT PIPELINING (COMPUTERS)
A distributed signal processing architecture
[AD-A130227] 01 p0119 N84-10771
Analysis of a communication interface using multimicroprocessing
[INPE-2823-PRE/377] 02 p0208 N84-11356
A summary of research on microprocessor networks
[AD-A131325] 02 p0277 N84-11813
Techniques for integrated text and image processing and communication
[BMFT-FB-T-83-104] 02 p0302 N84-11985
Scheduling supercomputers
[AD-A132512] 04 p0579 N84-13822
SISAL: Streams and Iteration in a Single-Assignment Language. Language reference manual, version 1.1
[DE83-016576] 04 p0582 N84-13843
INTEL 432/670 Ada benchmark performance evaluation in the Multiprocessor/Multiprocess environment
[AD-A132774] 05 p0719 N84-14715
The debugging of real time multiprocessor systems: An integrated solution proposal
[CISE-2067] 06 p0899 N84-15837
Two fundamental issues in multiprocessing: The dataflow solution
[AD-A134239] 07 p1052 N84-16813
VLSI research
[AD-A134626] 08 p1151 N84-17491
Multi-dimensional signal processing research program
[AD-A135732] 09 p1302 N84-18511
Proceedings of the 9th World Computer Congress. IFIP (International Federation of Information Processing)
[AD-A136317] 09 p1365 N84-18911
A CRAY-Class multiprocessor simulator
[AD-A136555] 09 p1365 N84-18913
A multiprocessor emulation facility
[AD-A136094] 09 p1365 N84-18915
Development of a redundant computer system for flight augmentation
[BMFT-FB-W-83-027] 10 p1431 N84-19356
Bus interconnection in multiprocessor environment: The communication principle and the arbitration technique
[ENST-E-83010] 10 p1482 N84-19689
Approach to programming multiprocessing algorithms on the Denelcor HEP
[DE84-005440] 10 p1565 N84-20251
The Pascal Plus (PAP) preprocessor: A precompiler for a language for concurrent processing on a multiprocessor system
[EUT-82-E-130] 10 p1565 N84-20254
Operating system for a real-time multiprocessor propulsion system simulator
[NASA-TM-83605] 10 p1566 N84-20258
RTMPL: A structured programming and documentation utility for real-time multiprocessor simulations
[NASA-TM-83606] 10 p1566 N84-20259
Design and implementation of an Input/Output interface protocol for the INTEL 432/670 computer system
[AD-A136429] 12 p1883 N84-22273
Rediflow multiprocessing
[DE84-003194] 12 p1884 N84-22282
Workshop on Multiprocessors for High Performance Parallel Computation: Position papers
[PB84-152545] 14 p2204 N84-24228
Workshop on Multiprocessors for High Performance Parallel Computation
[PB84-152677] 14 p2204 N84-24229
On mapping cube graphs on VLSI array and tree architectures
[AD-A139306] 14 p2205 N84-24234
How to assemble tree machines
[AD-A139963] 15 p2330 N84-24988
Intermediate access switch: A multiprocessor application
[AD-A140363] 16 p2485 N84-25935
Multi-dimensional signal processing research program
[AD-A141273] 18 p2917 N84-28497
Real-time applications in multiprocessor systems
[AD-A142130] 19 p3072 N84-29492
The C.mmp multiprocessor
[AD-A142132] 19 p3072 N84-29493
Multiprocessor Z-buffer architecture for high-speed, high complexity computer image generation
[AD-A141063] 19 p3074 N84-29507
Vectorized sparse elimination
[AD-A141131] 19 p3095 N84-29657
The S-1 Mark IIA supercomputer
[DE84-012374] 20 p3267 N84-30732
Interfacing CAMAC to a high-speed multiprocessor bit slice data-acquisition system
[DE84-009986] 20 p3273 N84-30780
Characterization of real-time computers
[NASA-CR-3807] 20 p3277 N84-30801
Specifying the behavior of concurrent systems
[NASA-CR-173839] 21 p3464 N84-31957
S-1 software development and maintenance
[DE84-013071] 22 p3642 N84-33091
The development of LANAC/II language for concurrent programming
[INPE-2781-PRE/347] 23 p3813 N84-34180
Implementation of monitors with macros: A programming aid for the HEP and other parallel processors
[ANL-83-97] 23 p3817 N84-34200
A fault-tolerant multiprocessing unit for on-board satellite supervision and control
[INPE-3244-PRE/590] 24 p3866 N84-34500
Two-dimensional signal processing and storage and theory and applications of electromagnetic measurements
[AD-A144266] 24 p3898 N84-34680
Structural approach to design of multiprocessor database management system 24 p3942 N84-34953
East Europe report: Science and technology
[JPRS-ESA-84-027] 24 p3943 N84-34963
Trends in microprocessor technology outlined 24 p3943 N84-34964

MULTIPROGRAMMING
Simulation requirements to support the development of a fault tolerant avionic system 06 p0774 N84-15072
Software testing of safety critical systems 06 p0774 N84-15073
The debugging of real time multiprocessor systems: An integrated solution proposal
[CISE-2067] 06 p0899 N84-15837
Detailed design and implementation of a multiprogramming operating system for sixteen-bit microprocessors
[AD-A138078] 12 p1880 N84-22256
Detailed design and implementation of a multiprogramming operating system for sixteen-bit microprocessors
[AD-A138083] 12 p1880 N84-22257
NLTSS overview
[DE84-006536] 19 p3080 N84-29546
Resource contention, synchronization, and information structure in distributed systems
[AD-A143037] 21 p3518 N84-32287
Implementation of monitors with macros: A programming aid for the HEP and other parallel processors
[ANL-83-97] 23 p3817 N84-34200

MULTIPROPELLANTS
U ROCKET PROPELLANTS

MULTIRADAR TRACKING
U RADAR NETWORKS

MULTISPECTRAL BAND CAMERAS
Remote sensing using the airborne MEIS 2 multidetector electro optical imaging scanner 03 p0397 N84-12592
Study of the onboard calibration equipment of the HRV camera — SPOT satellite
[ESA-TT-794] 06 p0848 N84-15529
Thermal control of the SPOT HRV instrument 10 p1445 N84-19441
BRESEX: On board supervision, basic architecture and preliminary aspects for payload and space shuttle interface
[NASA-CR-173673] 21 p3353 N84-31271

MULTISPECTRAL BAND SCANNERS
Evaluation of LANDSAT-4 TM and MSS ground geometry performance without ground control
[E84-10022] 01 p0099 N84-10644
LANDSAT 4 band 6 data evaluation
[E84-10001] 02 p0235 N84-11543
Study of LANDSAT-D thematic mapper performance as applied to hydrocarbon exploration
[E84-10003] 02 p0235 N84-11544
Investigation of radiometric properties of the LANDSAT-4 multispectral scanner
[E84-10013] 02 p0236 N84-11551
LANDSAT-4 thematic mapper Modulation Transfer Function (MTF) evaluation
[E84-10014] 02 p0236 N84-11552
CCRS proposal for evaluating LANDSAT-D MSS and TM data
[E84-10026] 02 p0238 N84-11560
Analysis of the quality of image data acquired by the LANDSAT-4 thematic mapper and multispectral scanners
[E84-10028] 02 p0238 N84-11561
LANDSAT 4 investigations of thematic mapper and multispectral scanner applications
[E84-10006] 03 p0392 N84-12555
The modular optoelectronic scanner (MOMS) on STS-7, June 83 03 p0396 N84-12589
Rectification of multispectral scanner images
[GEOWISS-MITT-24-1983] 03 p0402 N84-12628
Information content of data from the LANDSAT 4 Thematic Mapper (TM) and multispectral scanner (MSS)
[E84-10034] 04 p0551 N84-13626
LANDSAT 4 image data quality analysis
[E84-10036] 04 p0551 N84-13629
The use of linear feature detection to investigate thematic mapper data performance and processing
[E84-10037] 04 p0551 N84-13630
The use of thematic mapper data for land cover discrimination: Preliminary results from the UK SATMaP programme
[E84-10038] 04 p0551 N84-13631
Comparative assessment of LANDSAT-4 MSS and TM data quality for mapping applications in the southeast
[E84-10040] 04 p0551 N84-13633
Analysis of the quality of image data acquired by the LANDSAT-4 Thematic Mapper (TM) of the Black Hills area, South Dakota
[E84-10041] 04 p0552 N84-13634
Analysis of multispectral scanner (MSS) and Thematic Mapper (TM) performance (pre-launch and post-launch)
[E84-10043] 04 p0552 N84-13636
Spectroradiometric calibration of the thematic mapper and multispectral scanner system
[E84-10045] 04 p0552 N84-13638
Modular Optoelectronic Multispectral Scanner (MOMS). Digital image storage
[MBB-UA-686-82-OE] 05 p0746 N84-14901
In-flight absolute radiometric calibration of the thematic mapper
[E84-10064] 06 p0865 N84-15633
Spectral characterization of the LANDSAT thematic mapper sensors
[E84-10065] 06 p0865 N84-15634
A correlation analysis of percent canopy closure versus TMS spectral response for selected forest sites in the San Juan National Forest, Colorado
[E84-10066] 06 p0865 N84-15635
Use of LANDSAT MSS (multispectral scanner) digital data in water quality mapping of the Neuse River estuary, North Carolina
[PB83-256750] 06 p0867 N84-15645
An initial analysis of LANDSAT 4 Thematic Mapper data for the classification of agricultural, forested wetland, and urban land covers
[E84-10073] 07 p1020 N84-16620

Remote sensing experiments on Spacelab and STS
08 p1175 N84-17655
Analysis of sea ice in the Sea of Okhotsk using LANDSAT-MSS data (comparison with GMS data)
09 p1347 N84-18799
An analysis of new techniqes for radiometric correction of LANDSAT-4 Thematic Mapper images — Terrebonne Bay, Louisiana and Grand Bahamas scenes
[E84-10066] 10 p1521 N84-19957
Evaluation of spatial, radiometric and spectral Thematic Mapper performance for coastal studies
[E84-10093] 10 p1522 N84-19964
CCRS proposal for evaluating LANDSAT-4 MSS and TM data
[E84-10096] 10 p1522 N84-19966
LANDSAT-4 MSS interband registration
10 p1523 N84-19969
NASA TM processing system description and status
10 p1524 N84-19979
Spectroradiometric calibration of the thematic mapper and multispectral scanner system
[NASA-CR-175405] 11 p1671 N84-20905
Performance evaluation and geologic utility of LANDSAT-4 TM and MSS data
[E84-10099] 12 p1828 N84-21918
Feasibility study of advanced optical techniques for ocean color measurement — satellite-borne
[MBB-R3700/292] 12 p1837 N84-21974
Spectroradiometric calibration of the Thematic Mapper and multispectral scanner system
[E84-10098] 13 p2004 N84-23000
Sensor radiance for a midlatitude atmospheric model
13 p2004 N84-23001
In-flight absolute radiometric calibration of the Thematic Mapper — White Sands, New Mexico
13 p2004 N84-23002
Dual aperture multispectral Schmidt objective
[NASA-CASE-GSC-12756-1] 13 p2042 N84-23248
Correlating aerial photographs to LANDSAT Multispectral Sensor (MSS) data to measure ground control points 15 p2358 N84-25150
Spectroradiometric calibration of the Thematic Mapper and Multispectral Scanner system — White Sands, New Mexico
[E84-10136] 16 p2506 N84-26084
Discriminating vegetation and soils using LANDSAT MSS and Thematic Mapper bands and band ratios
[AD-A140198] 16 p2510 N84-26108
Multispectral Scanner (MSS) instrument description
20 p3205 N84-30362
Spectral characterization of the LANDSAT Thematic Mapper sensors 20 p3207 N84-30372
Spectral characterization of the LANDSAT-4 MSS sensors 20 p3211 N84-30402
Investigation of radiometric properties of LANDSAT-4 MSS 20 p3211 N84-30403
Geometric accuracy of LANDSAT-4 MSS image data — Georgia 20 p3212 N84-30406
Geometric accuracy assessment of LANDSAT-4 Multispectral Scanner (MSS) — Washington, D.C.
20 p3212 N84-30407
Impact of LANDSAT MSS sensor differences on change detection analysis 20 p3212 N84-30408
LANDSAT-4 MSS geometric correction: Methods and results 20 p3213 N84-30409
Preliminary evaluation of Thematic Mapper image data quality 20 p3214 N84-30415
Quick look analysis of TM data of the Washington, District of Columbia area 20 p3214 N84-30418
Aboveground biomass estimation in a tidal brackish marsh using simulated Thematic Mapper spectral data
20 p3214 N84-30419
Comparison of the information content of data from the LANDSAT-4 Thematic Mapper and the Multispectral Scanner 20 p3215 N84-30420
Study of Thematic Mapper and Multispectral Scanner data applications 20 p3215 N84-30421
Thematic Mapper data quality and performance assessment in renewable resources/agriculture remote sensing 20 p3215 N84-30422
Preliminary comparisons of the information content and utility of TM versus MSS data 20 p3215 N84-30423
Parametric and nonparametric analysis of LANDSAT TM and MSS imagery for detecting submerged plant communities 20 p3215 N84-30424
The use of Thematic Mapper data for land cover discrimination: Preliminary results from the UK Satmap programme 20 p3216 N84-30428
Final comparison of TM and MSS data for surface mine assessment in Logan County, West Virginia
20 p3216 N84-30430
Comparison of land cover information from LANDSAT Multispectral Scanner (MSS) and airborne Thematic Mapper Simulator (TMS) data for hydrologic applications
20 p3216 N84-30431
Relative accuracy assessment of LANDSAT-4 MSS and TM data for level 1 land cover inventory
20 p3217 N84-30432
Earth Observing System, introduction
20 p3219 N84-30451
The effect of spatial, spectral and radiometric factors on classification accuracy using thematic mapper data
[NASA-TM-85995] 20 p3227 N84-30510
Characterization of the LANDSAT sensors' spatial responses
[E84-10171] 21 p3426 N84-31734
Relative radiometric calibration of LANDSAT TM reflective bands
[E84-10179] 21 p3428 N84-31750
Prelaunch absolute radiometric calibration of the reflective bands on the LANDSAT-4 protoflight Thematic Mapper
[E84-10180] 21 p3428 N84-31751
Spectral characterization of the LANDSAT Thematic Mapper sensors
[E84-10184] 21 p3429 N84-31755
A simulation of remote sensor systems and data processing algorithms for spectral feature classification
[NASA-CR-172393] 22 p3597 N84-32784
Modular Optoelectronic Multispectral Scanner (MOMS) program outline and future aspects
23 p3764 N84-33881
Modular Optoelectronic Multispectral Scanner (MOMS)-01 on STS-7 and STS-11: Missions and results
23 p3765 N84-33882
The information network for a real-time controlled data acquisition of the Modular Optoelectronic Multispectral Scanner (MOMS) 23 p3765 N84-33883
Spectral significance of Modular Optoelectronic Multispectral Scanner (MOMS) versus LANDSAT data and future aspects: Preliminary results
23 p3765 N84-33884
Modular Optoelectronic Multispectral Scanner (MOMS) data of Bolivia: Comparison with LANDSAT Multispectral Scanner (MSS) and geological interpretation
23 p3765 N84-33885
Modular Optoelectronic Multispectral Scanner (MOMS), interpretation and evaluation of the MOMS-image Arica, west coast of South America 23 p3765 N84-33886
The Pilbara district in northwestern Australia: A case study for the geological application of Modular Optoelectronic Multispectral Scanner (MOMS) and LANDSAT data 23 p3765 N84-33887
LANDSAT-4 MSS and Thematic Mapper data quality and information content analysis
23 p3766 N84-33871
The effect of spatial, spectral and radiometric factors on classification accuracy using Thematic Mapper data
23 p3766 N84-33872
Multitemporal LANDSAT urban area classification
23 p3768 N84-33886
Automatic analysis of bitemporal LANDSAT data: An application to the study of the evolution of vegetation-covered areas in a tropical region
23 p3768 N84-33887
Interpretation of combined LANDSAT-Heat Capacity Mapping Mission (HCMM) data for geological analysis. Evaluation of scale effect on interpretation of a multisource image 23 p3769 N84-33894
Statistical lineament analysis in South Greenland based on LANDSAT imagery 23 p3770 N84-33901
Calculation of flood hydrographs using satellite-derived land-use information in the Dreisam watershed, S. W. Germany 23 p3771 N84-33904
A study of multispectral model of land cover
24 p3955 N84-35042

MULTISPECTRAL LINEAR ARRAYS
SPOT (French satellite) — satellite and program overviews 08 p1175 N84-17652
Multispectral linear array multiband selection device
[NASA-CASE-GSC-12911-1] 15 p2335 N84-25016
Multispectral linear array visible and shortwave infrared sensors 23 p3781 N84-33977

MULTISPECTRAL PHOTOGRAPHY
NT COLOR INFRARED PHOTOGRAPHY
NT INFRARED PHOTOGRAPHY
NT RADAR PHOTOGRAPHY
Multi-temporal analysis of LANDSAT imagery for bathymetry
[AD-A130648] 01 p0100 N84-10652
The use of airborne thematic mapper simulation data for the estimation and mapping of Green Leaf Area Index (GLAI) 03 p0398 N84-12602
LANDSAT 4 investigations of Thematic Mapper and multispectral scanner applications — Death Valley, California; Silver Bell Copper Mine, Arizona, and Dulles Airport near Washington, D.C.
[E84-10100] 13 p2004 N84-23003
Galilean satellite multispectral data base production
13 p2087 N84-23521
Preliminary results of albedo correlation between Europa and Ganymede 15 p2427 N84-25581
Multichannel linear predictive coding of color images
[AD-A142260] 19 p3008 N84-29069
Applications of texture analysis for rock types discrimination, phase 2
[AD-A142268] 19 p3042 N84-29303

MULTISPECTRAL RADAR
The theory of Earth observation using multiple-frequency radar
[ESA-TT-819] 16 p2509 N84-26105

MULTISTAGE COMPRESSORS
U TURBOCOMPRESSORS

MULTISTAGE ROCKET VEHICLES
NT ARIANE LAUNCH VEHICLE
NT ATLAS CENTAUR LAUNCH VEHICLE
Separation between stages of multistage carrier rocket
[AD-A132924] 05 p0644 N84-14237
Three stage rocket vehicle with parallel staging
[NASA-CASE-MFS-25878-1] 18 p2803 N84-27787

MULTISTATIC RADAR
Rivista Tecnica Selenia, volume 6, number 2, 1982
06 p0906 N84-15882
Optimum and sub-optimum processors for multistatic radar systems 06 p0906 N84-15885
Signal power during radioacoustic sounding of turbulent atmosphere 18 p2864 N84-28186
Roughness of surface of Venus from bistatic radar data 19 p2975 N84-28857
Doppler-based target localization by a distributed system of omnidirectional sensors
[REPT-3-95] 23 p3729 N84-33836
Analysis of bistatic SAR signatures
23 p3777 N84-33947
Range-only multistatic radar system
[AD-D011201] 24 p3896 N84-34671

MULTITEMPORAL ANALYSIS
U TEMPORAL RESOLUTION

MULTIVARIATE STATISTICAL ANALYSIS
NT BIVARIATE ANALYSIS
NT COVARIANCE
NT DISCRETE FUNCTIONS
NT ORTHOGONALITY
NT REGRESSION ANALYSIS
Rejection of multivariate outliers
[AD-A130686] 01 p0133 N84-10870
Likelihood ratio tests on covariance matrices and mean vectors of complex multivariate normal populations and their applications in time series
[AD-A131523] 01 p0133 N84-10874
The heteroscedastic method: Theory and applications
[AD-A129525] 01 p0137 N84-10895
Computation of the sample range in presence of conditions on generalized variance
02 p0285 N84-11872
Multivariate density estimation and remote sensing
03 p0393 N84-12560
Autoregressive models for use in scene segmentation
03 p0393 N84-12561
Limit theorems for the eigenvalues of product of two random matrices
[AD-A131682] 03 p0425 N84-12787
Multivariate, minimum-curvature splines for randomly spaced data
[AD-A132319] 04 p0590 N84-13899
Asymptotic null and nonnull distributions of three multivariate test statistics in Gmanova
[TR-82] 04 p0592 N84-13905
Fast algebraic methods for multivariable control systems
[AD-A132719] 05 p0733 N84-14811
Advanced topics in robustness for multivariable control
[AD-A134606] 07 p1058 N84-16850
Control strategies for complex systems for use in aerospace avionics
[AD-A135072] 08 p1104 N84-17179
Effects of assuming independent component failure times, if they are actually dependent, in a series system
[AD-A136567] 09 p1327 N84-18667
Comparing probability forecasters: Basic binary concepts and multivariate extensions
[AD-A135966] 09 p1377 N84-18998
The Jack Kiefer-Jacob Wolfowitz Memorial Statistical Research Conference
[AD-A136490] 09 p1381 N84-19021
A multivariable regression algorithm
[AD-A136630] 09 p1382 N84-19026
Inspection errors in link sampling
[AD-A135636] 09 p1382 N84-19029
A robust multiple correlation coefficient for the rank analysis of linear models
[AD-A135666] 09 p1383 N84-19030

Application of multivariate analysis to the parameters of parameters of astrophysical objects
09 p1408 N84-19199
Classification methods: An introductory survey
09 p1408 N84-19204
Crop area estimation based on remotely-sensed data with an accurate but costly subsample
[E84-10087] 10 p1521 N84-19958
Multivariate optimum interpolation of surface pressure and winds over oceans 12 p1853 N84-22089
Applications of multivariate statistical techniques for computer performance evaluation
[AD-A138268] 12 p1894 N84-22336
Multivariate perpendicular interpolation
[AD-A139254] 14 p2212 N84-24284
A response model for multiple choice items
[AD-A139396] 14 p2214 N84-24297
Estimation of latent group effects
[AD-A139299] 14 p2218 N84-24310
A multivariate autoregressive display monitoring model
[NLR-MP-83033-U] 15 p2364 N84-25296
Estimation of variances and covariances in the multivariate and in the incomplete multivariate model
16 p2504 N84-26073
A scheme for mass and wind analysis on a limited area using multivariate three-dimensional optimum interpolation: Scientific documentation and first evaluation
[KNMI-TR-46] 17 p2734 N84-27382
Multivariable digital control laws for the UH-60A black hawk helicopter
[AD-A141046] 18 p2797 N84-27746
PASCAL statistical procedures package (PSPP)
[AD-A141049] 18 p2921 N84-28524
Multivariate analysis and its applications
[AD-A140942] 18 p2925 N84-28549
Digital multivariable tracker control laws for the KC-135A
[AD-A141118] 19 p2994 N84-28786
A note on equality in Anderson's theorem
[AD-A141509] 19 p3084 N84-29577
Interval estimates for posterior probabilities in a multivariate normal classification model
[MC-SW-96/83] 19 p3094 N84-29650
Climate prediction. Part 1: Cyclone frequency
[AD-A143576] 22 p3625 N84-32973
Distributions of central quadratic forms in normal variables: A comparison of algorithms
[AD-A143468] 22 p3646 N84-33116
Relationships among classes of spherical matrix distributions
[AD-A143215] 22 p3648 N84-33126
Tests for sphericity under correlated multivariate regression equations model
[AD-A144658] 24 p3952 N84-35024
Multivariate scattered data derivative generation by functional minimization
[AD-A144663] 24 p3952 N84-35026
Statistical classification of IUE stellar spectra by the Variable Procrustean Bed (VPB) approach
24 p3975 N84-35178

MULTIVIBRATORS
NT FLIP-FLOPS

MUON SPIN ROTATION
Theory of hyperfine anomalies in muonic atoms
[DE83-015392] 03 p0438 N84-12872

MUONS
Muon spin relaxation in ferromagnetic PdMn
[DE83-012659] 03 p0453 N84-12979
Neutrino-oscillation experiments at Brookhaven National Laboratory
[DE83-016275] 04 p0528 N84-13476
Muons and electrons in general
06 p0914 N84-15938
Muon spin rotation in solids
[NASA-CR-172789] 06 p1234 N84-18067
Particle theory, cosmology and relativity
[DE84-003990] 11 p1760 N84-21489
The characteristics of the cylindrical drift chambers of the detector CELLO: Investigation with muons from high altitude cosmic rays
[MPI-PAE/EXP.E1.125] 19 p3028 N84-29205
A crossed scintillation supertelescope to measure the muon component of cosmic ray intensity
24 p3994 N84-35274

MUSCLES
Summary of study group session discussions
02 p0264 N84-11739
Development and assessment of the Monark cycle ergometer for anaerobic muscular exercise
[AD-A133173] 06 p0847 N84-15523
Acute intramuscular toxicity (LD50) of 1,1'-trimethylenebis (4-(Hydroxyiminomethyl) pyridinium bromide) monohydrate, (TMB-4) in male mice
[AD-A133148] 06 p0886 N84-15758
Differentiated ratings of perceived exertion and selected physiological responses during prolonged upper and lower body exercise
[AD-A134086] 06 p0887 N84-15769
Interaction of anti-G measures and chest wall mechanics in determining gas exchange
[AD-A133740] 06 p0889 N84-15775
Metabolic disturbances in man in an environment with low ammonia level and their correction by graded physical exercise 07 p1045 N84-16780
Physiological changes in fast and slow muscle with simulated weightlessness 09 p1354 N84-18850
Presynaptic elements involved in the maintenance of the neuromuscular junction 09 p1358 N84-18875
Effects of suspension on tissue levels of glucocorticoid receptors 09 p1360 N84-18884
Biomedical Research Division significant accomplishments for FY 1983
[NASA-TM-85929] 10 p1545 N84-20128
Research opportunities in muscle atrophy
[NASA-CR-175422] 10 p1548 N84-20135
Effects of dietary sodium intake on body and muscle potassium content in unacclimatized men during successive days of work in the heat
10 p1549 N84-20153
Skeletal muscle metabolism of sea-level natives following short-term high-altitude residence
[AD-A139323] 15 p2380 N84-25284
Digital image processing of muscle biopsies
15 p2430 N84-25593
Sex steroids do not affect muscle weight, oxidative metabolism or cytosolic androgen reception binding of functionally overloaded rat Plantaris muscles
[NASA-CR-173630] 17 p2739 N84-27394
Maximal power outputs during the Wingate anaerobic test
[AD-A141374] 19 p3065 N84-29444
Modulation of the cholinergic mechanisms in the bronchial smooth muscle
[NDRE/PUBL-84/1001] 21 p3457 N84-31937
Ultrastructural alterations in skeletal muscle fibers of rats after exercise
[NASA-TM-76976] 23 p3804 N84-34117
The combined influence of stretch, mobility and electrical stimulation in the prevention of muscle fiber atrophy caused hypokinesia and hypodynamia
[NASA-CR-173994] 24 p3936 N84-34914

MUSCULAR FATIGUE
Experiments on factors that influence muscular function in man
[AD-A133928] 06 p0888 N84-15771
Effect of inspiratory muscle fatigue on perception of added loads in humans 10 p1548 N84-20150

MUSCULAR FUNCTION
Experiments on factors that influence muscular function in man
[AD-A133928] 06 p0888 N84-15771
Physiological changes in fast and slow muscle with simulated weightlessness 09 p1354 N84-18850
Appropriateness of the small-cage-reared rat as a model for the study of altered-activity effects
09 p1354 N84-18851
Cardiovascular and respiratory responses to muscular activity during immersion in water at different temperatures
[AD-A138894] 14 p2185 N84-24094
New book on metabolism under hypodynamic conditions 15 p2378 N84-25271
Changes in arterial pressure in static work as function of time of day and degree of disturbance in Earth's magnetic field 21 p3456 N84-31930

MUSCULAR STRENGTH
Electromyographic analysis of the peroneous longus during bicycle ergometry across work load and pedal type
[AD-A132550] 05 p0712 N84-14666
Research opportunities in muscle atrophy
[NASA-CR-3796] 17 p2743 N84-27416
Aerobic/calisthenic and aerobic/circuit weight training programs for Navy men: A comparative study
[AD-A140971] 18 p2900 N84-28396
Maximal power outputs during the Wingate anaerobic test
[AD-A141374] 19 p3065 N84-29444
Upper body exercise performance: Comparison between women and men
[AD-A142330] 19 p3066 N84-29454
Upper to lower body muscular strength and endurance ratios for women and men
[AD-A143821] 23 p3811 N84-34168

MUSCULAR TONUS
NT HYPOTONIA
Evaluation of skeletal muscle tone by recording lateral rigidity 02 p0262 N84-11717
The exercise electrocardiogram
11 p1699 N84-21085
Muscle tone changes in individuals of different age groups submitted to simulated weightlessness
12 p1864 N84-22150

MUSCULOSKELETAL SYSTEM
NT BONES
NT CARTILAGE
NT CEREBRUM
NT COLLAGENS
NT FEMUR
NT SCAPULA
NT ULNA
NT VERTEBRAL COLUMN
NT WRIST
An experimental study of multi-link models of human postural dynamics and control 04 p0572 N84-13769
Stress fractures: The remodelling response to excessive repetitive loading
[AD-A130681] 06 p0887 N84-15765
Structural development and gravity
09 p1353 N84-18842
Bone loss in tail-suspended rats in restricted to the unweighted limbs 09 p1353 N84-18843
Simulating certain aspects of hypogravity: Effects on the mandibular incisors of suspended rats (PULEH model) 09 p1353 N84-18844
The effects of spaceflight on the mineralization of rat incisor dentin 09 p1353 N84-18845
Metabolic alterations caused by suspension hypokinesia in leg muscles of rats 09 p1354 N84-18848
Biochemical and histochemical adaptations of skeletal muscle to rat suspension 09 p1354 N84-18849
Effects of suspension on tissue levels of glucocorticoid receptors 09 p1360 N84-18884
Research opportunities in muscle atrophy
[NASA-CR-3796] 17 p2743 N84-27416
Hypokinesia experiment studies effects of weightlessness 21 p3347 N84-31234
Conference Grant for 2nd World Congress on Biomaterials
[AD-A143129] 21 p3454 N84-31915

MUSHY ZONES
Analysis and calculation of macrosegregation in a casting ingot, exhibits C and E
[NASA-CR-171030] 14 p2127 N84-23752
Porosity and environment 24 p3882 N84-34593

MUTAGENS
Evaluation of motor vehicle and other combustion emissions using short-term genetic bioassays
[PB83-233270] 01 p0112 N84-10731
Bioassay of particulate organic matter from ambient air
[PB83-239731] 02 p0267 N84-11754
Phototransformation of polycyclic aromatic hydrocarbons into stable, mutagenic components
[DE84-001747] 07 p0966 N84-16261
Laboratory investigation of the fate of diesel emissions in the atmosphere
[PB84-118496] 09 p1343 N84-18772
Use of sperm enzymes to detect genotoxic agents
[AD-A142724] 20 p3260 N84-30691

MUTATIONS
Program mutation: An approach to software testing
[AD-A135775] 09 p1368 N84-18933
Space-exposed experiment developed for students
15 p2277 N84-24676
Gene mutations, chromosome aberrations and survivability after X-ray irradiation of Chinese hamster cell culture under conditions of cysteamine protection
17 p2743 N84-27413
Biological effects of millimeter-wave irradiation: Living bacterial organisms
[AD-A142474] 20 p3256 N84-30670
Obtaining yeast vector marked by mutation of multiple antibiotic resistance 23 p3806 N84-34133

MX MISSILE
A study of MX environmental management information system (MXEMIS) needs
[AD-A139025] 13 p2067 N84-23404
Shock absorbing missile launch pad
[AD-D011173] 23 p3698 N84-33436

MYOELECTRICITY
Operator alertness/workload assessment using stochastic model-based analysis of myoelectric signals
[AD-A144535] 24 p3937 N84-34921

MYOPIA
Visual accommodation trainer-tester
[NASA-CASE-ARC-11426-1] 03 p0338 N84-12193

N

N ELECTRONS
A new technique for measuring metal surface properties at the Rayleigh critical angle
[DE84-001770] 06 p1172 N84-17632

N-N JUNCTIONS
Process research of non-CZ silicon material
[NASA-CR-173759] 19 p3050 N84-29353
N-P JUNCTIONS
U P-N JUNCTIONS
N-TYPE SEMICONDUCTORS
Reverse bias second breakdown in power switching transistors
[AD-A130145] 02 p0213 N84-11391
Photoluminescent properties of n-GaAs electrodes: Applications of the dead-layer model to photoelectrochemical cells
[AD-A131301] 02 p0298 N84-11958
Development of a segmented n-type germanium detector, and its application to astronomical gamma-ray spectroscopy
[NASA-TM-85435] 03 p0481 N84-13039
Polarization effects in the luminescence of cadmium selenide electrodes
[AD-A133951] 05 p0647 N84-14253
Development of a planar heterojunction bipolar transistor for very high speed logic
[AD-A136341] 09 p1306 N84-18539
Ohmic versus rectifying contacts of Au to n-GaAs by ion sputtering 09 p1393 N84-19097
Magnetron sputtered gold contacts on n-GaAs 09 p1393 N84-19098
Growth of HgCdTe by modified molecular beam epitaxy
[AD-A137243] 10 p1588 N84-20407
Near millimeter wave action in n-GaAs
[AD-A138602] 13 p2042 N84-23252
Low-cost GaAs solar cell development
[AD-A138938] 13 p2047 N84-23280
Air as an adjustable insulator for C-V and G-V analysis of semiconductor surfaces
[AD-A141437] 19 p3013 N84-29099
Semiconductor multipactor device
[AD-D011067] 19 p3017 N84-29125
Process research of non-CZ silicon material
[NASA-CR-173759] 19 p3050 N84-29353
Zinc selenide photoelectrodes. Efficient radiative recombination in a stable photoelectrochemical cell
[AD-A141869] 19 p3051 N84-29360
Nucleation and growth of N- and P-type microcrystals in low-temperature glow-discharge deposited silicon films
[DE84-013122] 22 p3667 N84-33246
Progress research of non-Cz silicon material
[NASA-CR-173949] 23 p3787 N84-34021
Process for forming pure silver ohmic contacts to N- and P-type gallium arsenide materials
[DE84-014515] 23 p3831 N84-34298
NACELLES
Effects of Nacelle configuration/position on performance of subsonic transport
[NASA-CR-3743] 02 p0174 N84-11144
Viscous three-dimensional flow separations from high-wing propeller-turbine nacelle models 03 p0323 N84-12115
A computer program for the calculation of three-dimensional transonic nacelle/inlet flowfields
[NASA-CR-166528] 04 p0480 N84-13159
Connecting aircraft and external loads 06 p0770 N84-15046
An experimental investigation of nacelle-pylon installation on an unswept wing at subsonic and transonic speeds
[NASA-TP-2246] 09 p1250 N84-18162
Large, horizontal-axis wind turbines
[NASA-TM-83546] 17 p2722 N84-27327
Nacelle Aerodynamic and Inertial Loads (NAIL) project
[NASA-CR-165807] 18 p2786 N84-27685
Nacelle Aerodynamic and Inertial Loads (NAIL) project
[NASA-CR-3585] 19 p2963 N84-28777
NAMING
Source header list, supplement 2
[AD-A143800] 23 p3835 N84-34325
NAP-OF-THE-EARTH NAVIGATION
A summary of rotorcraft handling qualities research at NASA Ames Research Center 11 p1615 N84-20571
Human factors in weapon systems
[FOA-A-56006-H2] 15 p2384 N84-25297
DMA and CIG: A shotgun wedding
[AD-P003459] 21 p3510 N84-32236
A laser image generation system for helicopter Nap-Of-the-Earth (NOE) flight training
[AD-P003481] 21 p3512 N84-32248
NAPHTHALENE
Study of nitration and oxidation in oxynitrogen systems
[AD-A132742] 05 p0650 N84-14271
Chemical utilization of the olefinic byproducts in pyrolysis naphtha by carbonylation and alkylation reaction
[BMFT-FB-T-84-064] 19 p2985 N84-28914
Experimental study of the naphtaline heat pipe 20 p3169 N84-30125
NAPHTHENES
Investigation of sources, properties and preparation of distillate test fuels
[NASA-CR-168227] 04 p0508 N84-13332
NAPPES
U FOLDS (GEOLOGY)
NARCOSIS
The effects of hyperbaric elemental gases on the rate coefficient of K(+) influx in mammalian synaptosomes 04 p0570 N84-13754
NARCOTICS
NT MORPHINE
The effects of hyperbaric elemental gases on the rate coefficient of K(+) influx in mammalian synaptosomes 04 p0570 N84-13754
The interactive effects of morphine and ionizing radiation on the latency of tail-withdrawal from warm water in the rat
[AD-P003251] 18 p2904 N84-28418
NARROWBAND
Adaptive spread spectrum receiver using acoustic surface wave technology
[AD-A142129] 19 p3007 N84-29060
Strategic blue-green communication filters
[AD-A142353] 20 p3173 N84-30151
Investigation of statistical characteristics of random signals in nonlinear medium 21 p3485 N84-32086
NASA END-TO-END DATA SYSTEM
U NEEDS (DATA SYSTEM)
NASA OSTA PAYLOAD
U OSTA-1 PAYLOAD
NASA PROGRAMS
NT ACEE PROGRAM
NT EARTH RESOURCES PROGRAM
NT GALILEO PROJECT
NT GLOBAL ATMOSPHERIC RESEARCH PROGRAM
NT RANGER PROJECT
NT SATURN PROJECT
NT SEASAT PROGRAM
NT SKYLAB PROGRAM
NT SUPERSONIC CRUISE AIRCRAFT RESEARCH
NT SURVEYOR PROJECT
NT TACT PROGRAM
NT TERMINAL CONFIGURED VEHICLE PROGRAM
NT TILT ROTOR RESEARCH AIRCRAFT PROGRAM
NT VANGUARD PROJECT
NT VIKING MARS PROGRAM
The NASA Geodynamics Program: An overview
[NASA-TP-2147] 01 p0104 N84-10675
Geodynamics Branch research report, 1982
[NASA-TM-85078] 02 p0233 N84-11527
Programmatic comments 02 p0263 N84-11732
Recommendations for NASA research and development in artificial intelligence
[NASA-CR-170585] 02 p0277 N84-11817
National Aeronautics and Space Administration authorization, 1984, volume 2
[GPO-19-605] 02 p0303 N84-11988
Research and technology, 1983
[NASA-TM-85702] 02 p0309 N84-12026
NASA patent abstracts bibliography. Section 1: Abstracts. A continuing bibliography
[NASA-SP-7039(23)-SECT-1] 03 p0458 N84-13017
NASA Patent Abstracts Bibliography. Section 2: Indexes. A continuing bibliography (supplement 23)
[NASA-SP-7039(23)-SECT-2] 03 p0458 N84-13018
National Aeronautics and Space Act of 1958, as amended and related legislation
[GPO-24-491] 03 p0460 N84-13032
Spinoff, 1983
[NASA-TM-85475] 03 p0461 N84-13033
Replacing critical and strategic refractory metal elements in nickel-base superalloys — NASA's COSAM program
[NASA-TM-83528] 04 p0498 N84-13264
NASA's space station activities
[GPO-27-393] 05 p0644 N84-14234
Ada and the NASA software environment 05 p0724 N84-14749
NASA's five-year plan
[GPO-27-459] 05 p0757 N84-14964
Detroit space odessey
[NASA-TM-85487] 06 p0792 N84-15164
Cleveland Space Odyssey
[NASA-TM-85493] 06 p0927 N84-16020
Research reports: 1983 NASA/ASEE Summer Faculty Fellowship Program
[NASA-CR-170942] 06 p0927 N84-16022
Chronology of KSC and KSC related events for 1981
[NASA-TM-85510] 06 p0933 N84-16060
A guide to research in NASA history, 7th edition
[NASA-TM-85486] 06 p0935 N84-16076
Chronology of KSC and KSC related events for 1981
[NASA-TM-85498] 07 p1084 N84-17047
The national space program from the fifties into the eighties
[AD-A134799] 08 p1107 N84-17197
STEP Experiment Requirements
[NASA-CP-2294] 08 p1109 N84-17211
Research and technology report, 1983
[NASA-TM-85865] 08 p1247 N84-18152
Remembered images, NASA 1958-1983
[NASA-EP-200] 09 p1260 N84-18224
Spaceborne Gravity Gradiometers. Part 2: Role of gravity gradiometers in NASA's programs 09 p1335 N84-18718
With a view to their practical solution: Sixty years with NACA and NASA, 1915 - 1976
[NASA-TM-85555] 09 p1418 N84-19277
NASA patent abstracts bibliography. Section 1: Abstracts
[NASA-SP-7039(24)-SECT-1] 10 p1592 N84-20432
Patent abstracts bibliography, a continuing bibliography. Section 2: Indexes
[NASA-SP-7039(24)-SECT-2] 10 p1592 N84-20433
Research and technology, fiscal year 1983
[NASA-TM-85557] 10 p1592 N84-20434
NASA control research overview 11 p1615 N84-20568
Civil space station
[S-REPT-98-523] 11 p1621 N84-20613
NASA Administrative Data Base Management Systems, 1983
[NASA-CP-2304] 11 p1747 N84-21403
NASA's emerging productivity program 11 p1748 N84-21404
NASA Scientific and Technical Information System (STI) and new directory of numerical data bases 11 p1749 N84-21413
NASA-wide standard administrative systems 11 p1749 N84-21415
Department of Housing and Urban Development, and certain independent agencies appropriations, 1984, part 2
[S-REPT-98-221-PT-2] 11 p1752 N84-21439
Department of Housing and Urban Development-independent agencies appropriations for 1984: National Aeronautics and Space Administration 11 p1753 N84-21440
Authorizing appropriations to the National Aeronautics and Space Administration for fiscal year 1985
[H-REPT-98-629] 11 p1753 N84-21441
Review of the National Aeronautics and Space Act of 1958
[GPO-28-915] 11 p1753 N84-21442
National Aeronautics and Space Administration Authorization Act, 1985 11 p1753 N84-21443
National Aeronautics and Space Administration Authorization Act, 1985
[H-REPT-98-629] 11 p1753 N84-21444
NASA fundamental remote sensing science research program 12 p1830 N84-21930
COSMIC software catalog, 1984 edition
[NASA-CR-174576] 12 p1878 N84-22242
Chronology of KSC and KSC related events, 1982
[NASA-TM-85576] 12 p1917 N84-22491
Overview of NASA Lewis Research Center free-piston Stirling engine activities
[NASA-TM-83649] 12 p1921 N84-22512
The star splitters: The high energy astronomy observatories
[NASA-SP-466] 12 p1921 N84-22516
NASA Thesaurus supplement. Part 1: Hierarchical listing
[NASA-SP-7051(SUPPL-1)] 13 p2066 N84-23398
NASA Oceanic Processes Program, fiscal year 1983
[NASA-TM-86248] 14 p2183 N84-24078
National Aeronautics and Space Administration Authorization Bill, 1984
[S-REPT-98-455] 14 p2249 N84-24506
National Aeronautics and Space Administration Authorization Act
[S-REPT-98-455] 14 p2249 N84-24507
Department of Housing and Urban Development Appropriations Bill, 1984
[H-REPT-98-803] 14 p2249 N84-24508
Activities of the Aeronautics and Space Engineering Board Commission on Engineering and Technical Systems
[NASA-CR-173529] 15 p2285 N84-24600
The 1985 NASA authorization
[GPO-31-453] 15 p2419 N84-25526
Future of aeronautics
[GPO-29-744] 15 p2419 N84-25529
Department of Housing and Urban Development-Independent Agencies Appropriation Bill, 1985 15 p2420 N84-25530
National Aeronautics and Space Administration 15 p2420 N84-25531
National Aeronautics and Space Administration research and development 15 p2420 N84-25533

Modification of NASA Langley 8 foot high temperature tunnel to provide a unique national research facility for hypersonic air-breathing propulsion systems
[NASA-TM-85783] 16 p2454 N84-25733
Guidelines for developing NASA (National Aeronautics and Space Administration) ADP security risk management plans
[NASA-CR-173564] 16 p2542 N84-26317
NASA, the first 25 years: 1958 - 1983
[NASA-EP-182] 16 p2583 N84-26563
Spaceborne sensors (1983-2000 AD): A forecast of technology
[NASA-TM-86083] 17 p2616 N84-26743
Making appropriations for the Department of Housing and Urban Development, and for sundry independent agencies, boards, commissions, corporations, and offices for the fiscal year ending September 30, 1985, and for other purposes
[H-REPT-98-867] 17 p2772 N84-27603
Authorizing appropriations from the National Aeronautics and Space Administration
[H-REPT-98-873] 17 p2772 N84-27605
Role of theory in space science
[NASA-CR-173444] 18 p2798 N84-27757
Space station needs, attributes and architectural options study
[NASA-CR-173899] 18 p2804 N84-27798
Fatigue and Fracture Branch: A compendium of recently completed and on-going research projects
[NASA-TM-85825] 20 p3201 N84-30331
The LANDSAT-4 program: An overview
20 p3205 N84-30360
LANDSAT-4 system description
20 p3205 N84-30361
Geodynamics: Introduction and background
20 p3222 N84-30476
Guidelines for contingency planning NASA (National Aeronautics and Space Administration) ADP security risk reduction decision studies
[PB84-169636] 20 p3268 N84-30737
National Aeronautics and Space Administration's first-year implementation of the Federal Managers' Financial Integrity Act
[PB84-186770] 20 p3314 N84-31044
Index to NASA News Releases and Speeches, 1983
[NASA-TM-85509] 20 p3314 N84-31047
Summer faculty fellowship program, 1984
[NASA-CR-172409] 21 p3507 N84-32221
NASA patent abstracts bibliography, a continuing bibliography. Section 1: Abstracts (Supplement 25)
[NASA-SP-7039(25)-SECT-1] 21 p3516 N84-32272
System analysis for the Huntsville Operational Support Center distributed computer system
[NASA-CR-171136] 22 p3643 N84-33097
NASA Patents Abstracts bibliography: A continuing bibliography. Section 2: Indexes (supplement 25)
[NASA-SP-7039(25)-SECT-2] 22 p3669 N84-33257
NASA Administrative Data Base Management Systems, 1984
[NASA-CP-2323] 22 p3671 N84-33266
The 1985 NASA authorization, volume 2
[GPO-34-202] 22 p3676 N84-33301
National Aeronautics and Space Administration Authorization Act, 1985
[PUB-LAW-98-361] 22 p3676 N84-33303
Aeronautics and space report of the President, 1983 activities
[NASA-TM-85538] 22 p3684 N84-33364
Space activities of the United States, Soviet Union, and other launching countries/organizations, 1957-1983
[GPO-33-265] 23 p3696 N84-33425
NASA scatterometer research data processing system: Requirements and design 23 p3781 N84-33979
Master list and index to NASA directives
[NASA-TM-87362] 23 p3834 N84-34321
NASA authorization for fiscal year 1985
[GPO-32-363] 24 p3969 N84-35133
Review of the National Aeronautics and Space Act of 1958, as amended
[GPO-38-705] 24 p3970 N84-35134
The ultraviolet astronomy mission: Columbus
24 p3982 N84-35228
Why Mars? 24 p3990 N84-35249

NASA STRUCTURAL ANALYSIS PROGRAM

U NASTRAN

NASTRAN

Finite element forced vibration analysis of rotating cyclic structures
[NASA-CR-165430] 02 p0231 N84-11515
Elastic-plastic analysis of annular plate problems using NASTRAN
[AD-A131293] 02 p0231 N84-11516
NASTRAN structural model for the large 64-meter antenna pedestal. Part 2: Improved model
04 p0519 N84-13412
NASTRAN flutter analysis of advanced turbopropellers
[NASA-CR-167926] 05 p0831 N84-14148
NASTRAN documentation for flutter analysis of advanced turbopropellers
[NASA-CR-167927] 06 p0790 N84-15153
Dynamic certification of a thrust-measuring system for large solid rocket motors 06 p0860 N84-15603
Determination of elevator and rudder hinge forces on the Learjet model 55 aircraft 06 p0860 N84-15604
A new method for generating and maintaining rigid formats in NASTRAN 06 p0860 N84-15605
Implementation of elastic-plastic structural analysis into NASTRAN 06 p0860 N84-15606
Elastic-plastic analysis of annular plate problems using NASTRAN 06 p0861 N84-15607
Bolt in bore boundaries 06 p0861 N84-15608
Development of a thermal and structural model for a NASTRAN finite-element analysis of a hypersonic wing test structure
[NASA-CR-170413] 08 p1170 N84-17620
The NASTRAN theoretical manual
[NASA-SP-221(06)] 09 p1329 N84-18677
Component mode synthesis and large deflection vibrations of complex structures — beams and trusses
[NASA-CR-173338] 09 p1329 N84-18680
Decentralized control of a large space structure using direct output feedback
[AD-A136781] 10 p1448 N84-19464
The effect of mass and stiffness changes on the damping factor in a large space structure as represented by the CSDL 2 model
[AD-A136984] 10 p1449 N84-19465
Evaluation of NASA structural analysis (NASTRAN) to predict the dynamic response of reinforced concrete
[AD-A137244] 10 p1517 N84-19929
The NASTRAN user's manual
[NASA-SP-222(06)] 12 p1825 N84-21899
NASTEK: Interactive display of NASTRAN-generated plots
[AD-A138831] 13 p2001 N84-22983
Statistical correlation of structural mode shapes from test measurements and NASTRAN analytical values
[NASA-TM-86044] 16 p2501 N84-26054
Non-linear transient response of flat plate to air shock wave
[AD-A140491] 16 p2503 N84-26063
Spartan Release Engagement Mechanism (REM) stress and fracture analysis
[NASA-CR-173779] 19 p3034 N84-29244
NASTRAN forced vibration analysis of rotating cyclic structures
[NASA-CR-173821] 19 p3035 N84-29252
NASTRAN analysis comparison to shock tube tests used to simulate nuclear overpressures
[AD-A142290] 20 p3202 N84-30337
Nonlinear displacement analysis of advanced propeller structures using NASTRAN
[NASA-TM-83737] 21 p3419 N84-31683
Twelfth NASTRAN Users' Colloquium
[NASA-CP-2328] 22 p3609 N84-32864
COSMIC/NASTRAN free-field input
22 p3609 N84-32865
The design and usage of the new data management features in NASTRAN 22 p3609 N84-32866
Accuracy of three dimensional solid finite elements
22 p3609 N84-32867
COSMIC/NASTRAN on the Cray computer systems
22 p3609 N84-32868
Computer aided modeling and post processing with NASTRAN analysis 22 p3609 N84-32869
Design spectrum analysis in NASTRAN
22 p3609 N84-32870
Seismic analysis capability in NASTRAN
22 p3610 N84-32871
Transient response dynamic module modifications to include static and kinetic friction effects
22 p3610 N84-32872
Structural analysis of the support system for a large compressor driven by a synchronous electric motor
22 p3610 N84-32873
Finite element prediction of acoustic scattering and radiation from submerged elastic structures
22 p3610 N84-32874
Nonlinear analysis of a bolted marine riser connector using NASTRAN substructuring
22 p3610 N84-32875
Four new capabilities in NASTRAN for dynamic and aeroelastic analyses of rotating cyclic structures
22 p3611 N84-32876

NATIONAL AIRSPACE UTILIZATION SYSTEM

Airport and air traffic control system. Introduction and overview 03 p0329 N84-12145
The National Airspace System
03 p0329 N84-12146
Aviation growth scenarios 03 p0329 N84-12147
Policy implications 03 p0329 N84-12150
Improving the air traffic control system: An assessment of the National Airspace System Plan
07 p0950 N84-16160
Cockpit data management requirements (current technology aircraft)
[FAA-PM-83-25] 19 p2961 N84-28766
FAA (Federal Aviation Administration) air traffic activity FY 1983
[AD-A142493] 20 p3127 N84-29861

NATIONAL PARKS

A correlation analysis of percent canopy closure versus TMS spectral response for selected forest sites in the San Juan National Forest, Colorado
[E84-10066] 06 p0865 N84-15635

NATIONS

NT ALABAMA
NT ALASKA
NT ARGENTINA
NT ARIZONA
NT ARKANSAS
NT AUSTRALIA
NT AUSTRIA
NT BELGIUM
NT BOLIVIA
NT BRAZIL
NT CALIFORNIA
NT CANADA
NT CHILE
NT COLORADO
NT CONNECTICUT
NT CZECHOSLOVAKIA
NT DELAWARE
NT DENMARK
NT DOMINICAN REPUBLIC
NT EAST GERMANY
NT EGYPT
NT FINLAND
NT FLORIDA
NT FRANCE
NT GEORGIA
NT GUATEMALA
NT GUYANA
NT HAITI
NT HAWAII
NT HUNGARY
NT ICELAND
NT IDAHO
NT ILLINOIS
NT INDIA
NT INDIANA
NT INDONESIA
NT IOWA
NT ISRAEL
NT ITALY
NT JAMAICA
NT JAPAN
NT KANSAS
NT KENTUCKY
NT LOUISIANA
NT MAINE
NT MANITOBA
NT MARYLAND
NT MASSACHUSETTS
NT MEXICO
NT MICHIGAN
NT MINNESOTA
NT MISSISSIPPI
NT MISSOURI
NT MONTANA
NT NEBRASKA
NT NETHERLANDS
NT NEVADA
NT NEW HAMPSHIRE
NT NEW JERSEY
NT NEW MEXICO
NT NEW YORK
NT NEW ZEALAND
NT NORTH CAROLINA
NT NORTH DAKOTA
NT NORWAY
NT OHIO
NT OKLAHOMA
NT ONTARIO
NT OREGON
NT PAKISTAN
NT PENNSYLVANIA
NT PERU
NT PHILIPPINES
NT POLAND
NT RHODE ISLAND
NT ROMANIA
NT SAUDI ARABIA
NT SCOTLAND
NT SOUTH CAROLINA
NT SOUTH DAKOTA
NT SPAIN

NT SUDAN
NT SWEDEN
NT TENNESSEE
NT TEXAS
NT UNITED KINGDOM
NT UNITED STATES
NT UTAH
NT VENEZUELA
NT VIRGINIA
NT WASHINGTON
NT WEST GERMANY
NT WEST VIRGINIA
NT WISCONSIN
NT WYOMING
NT ZIMBABWE
Study to forecast and determine characteristics of world satellite communications market
[NASA-CR-168270] 07 p0991 N84-16426
NATURAL FREQUENCIES
U RESONANT FREQUENCIES
NATURAL GAS
NT LIQUEFIED NATURAL GAS
Methanol production from natural gas or coal
[DE83-901909] 01 p0053 N84-10340
Medium- and high-pressure sonic leak pinpointing
[PB83-228361] 01 p0066 N84-10557
Thermodynamic properties for natural gas binaries
[PB83-228403] 01 p0157 N84-11031
Migration of natural gas and reservoir formation in east lower Saxony
[BMFT-FB-T-83-153] 02 p0250 N84-11639
Analysis of gases in the Earth's crust
[PB83-243972] 02 p0251 N84-11643
Alaska's mineral resources
[DE83-016599] 03 p0401 N84-12623
Assessment of institutional barriers to the use of natural gas fuel in automotive vehicle fleets
[NASA-CR-168183] 05 p0699 N84-14587
Wind tunnel study of natural gas dispersion from models of pipeline fractures and measurements of source characteristics
[OUEL-1466/83] 07 p1005 N84-16516
Biothermal conversion of biomass and wastes to methane
[DE84-006052] 11 p1675 N84-20931
Investigation of structure-permeability relationships of silicone polymer membranes
[PB84-160977] 14 p2130 N84-23771
The Arctic platform in the national petroleum reserve in Alaska: Deposition, deformation and petroleum potential 14 p2164 N84-23959
Oil and gas resources of the North Slope, Alaska 14 p2164 N84-23960
Petroleum source rock richness, type and maturity for four rock units on the Alaskan North Slope: Are they sources for the two oil types? 14 p2164 N84-23961
Geochemical detection of prospective petroleum areas in Arctic regions 14 p2166 N84-23972
Alaska's mineral resources
[DE84-006918] 14 p2170 N84-23996
Helium-neon lasers for remote measurements of natural gas leaks 15 p2430 N84-25595
Liquid-vapor and solid-liquid-vapor phase equilibria in natural gas systems
[PB84-179191] 16 p2474 N84-25860
The development of a geopressured energy management information and analysis system in support of research planning: Third year
[PB84-174481] 16 p2511 N84-26116
Energy technology characterizations handbook: Environmental pollution and control factors, third edition
[DOE/EP-0093] 16 p2511 N84-26117
US energy: Aviation perspective
[AD-A137766] 18 p2621 N84-27910
Symposium Proceedings: A National program for the assessment and development of the mineral resources of the United States Exclusive Economic Zone
[US-CIRC-929] 18 p2866 N84-28192
Panel 1A: Geologic studies related to oil and gas development in the EEZ 18 p2866 N84-28194
Panel 2A: Offshore oil and gas technology assessment 18 p2866 N84-28196
High pressure LOX/natural gas staged combustion technology 20 p3138 N84-29927
Phase and volumetric studies for methane/syntheis gas separations: The hydrogen-carbon monoxide-methane system
[PB84-214394] 21 p3375 N84-31417
Advanced onboard storage concepts for natural gas-fueled automotive vehicles
[NASA-CR-174655] 23 p3790 N84-34036
NATURAL GAS EXPLORATION
Evaluation of a laser-based photoacoustic spectrometer in measurement of stable-isotope ratios
[DE83-014626] 01 p0068 N84-10574
Geologic study of the Wind River Basin, Fremont and Natrona Counties, central Wyoming
[PB83-254912] 03 p0409 N84-12677
NATURAL LANGUAGE (COMPUTERS)
Proceedings of the Conference on Applied Natural Language Processing
[AD-A129824] 01 p0121 N84-10787
Flexible parsing
[AD-A131495] 01 p0123 N84-10603
Design of a system that understands informal specifications
[AD-A131479] 02 p0273 N84-11785
Mapping between semantic representations using Horn clauses
[AD-A131531] 02 p0273 N84-11787
Discourse and problem solving
[AD-A131003] 02 p0277 N84-11818
Natural language communication with machines: An ongoing goal
[AD-A131320] 02 p0278 N84-11820
Research on interactive acquisition and use of knowledge
[AD-A131306] 02 p0278 N84-11823
Representations for reasoning about change
[AD-A131649] 03 p0424 N84-12772
Model Statement Language/analyzer (MSL/MSA): A top-down Problem Statement Language/analyzer (PSL/PSA) approach for the user dialogue in decision support systems
[AD-A132273] 04 p0580 N84-13829
Research in knowledge representation for natural language understanding
[AD-A134102] 05 p0726 N84-14765
A linguistic overview of the Nigel text generation grammar
[AD-A134491] 07 p1057 N84-16849
Natural language processor as a universal front end to expert systems
[AD-A138455] 12 p1878 N84-22236
A natural language interface for a PROLOG database
[AD-A138071] 12 p1880 N84-22254
A unified approach to modeling and combining of evidence through random set theory
[AD-P002880] 13 p1978 N84-22841
Understanding a technical language: A schema-based approach
[NASA-TM-85868] 19 p3070 N84-29478
NATURAL LASERS
U LASERS
NATURAL SATELLITES
NT CALLISTO
NT EUROPA
NT GALILEAN SATELLITES
NT GANYMEDE
NT IAPETUS
NT IO
NT JUPITER SATELLITES
NT MIMAS
NT MOON
NT SATURN SATELLITES
NT TETHYS
NT TITAN
Origin and evolution of the Saturn system
[NASA-TM-85847] 04 p0621 N84-14096
Reports of planetary geology program, 1983
[NASA-TM-86246] 13 p2073 N84-23431
Geologic studies of outer solar system satellites: Iapetus and Europa 13 p2075 N84-23448
Observations of faint planetary satellites with a charge-coupled device 19 p3120 N84-29832
NAUTICAL CHARTS
Automated standard nautical chart production
[AD-A132249] 04 p0553 N84-13644
Future sea mapping technique: Travel report. Activties in sea mapping technique, laser technique and acoustics at some institutes in Northern Europe
[FOA-C-30346-E1] 10 p1527 N84-20002
Charts of the O1, K1, N2, M2, and S2 tides in the Celtic Sea including M2 and S2 tidal currents
[IOS-169] 18 p2893 N84-28360
NAVIER-STOKES EQUATION
Numerical computation of base flow for a projectile at transonic speeds
[AD-A130293] 01 p0004 N84-10027
Introduction to computational aerodynamics
[AD-A130717] 01 p0005 N84-10031
The use of an adaptive grid in a solution of the Navier-Stokes equations for incompressible flow 02 p0173 N84-11139
Momentum-control volumes for finite-difference codes
[DE83-007566] 02 p0262 N84-11849
Analysis of finite difference discretizations of Navier-Stokes problems on mapped domains 02 p0263 N84-11858
On the generation of vortical flow at hypersonic speeds over elliptical cones 03 p0323 N84-12114
Acta Mechanica Sinica (selected articles)
[AD-A131871] 03 p0372 N84-12422
A fully vectorized numerical solution of the incompressible Navier-Stokes equations
[NASA-CR-174496] 04 p0531 N84-13491
Computation of viscous flow in curved ducts and comparison with experimental data
[NASA-TM-83548] 04 p0532 N84-13494
Further studies on equal-order interpolation for Navier-Stokes
[DE84-000916] 04 p0534 N84-13512
Acoustic-gravity wave dispersion relations in a baroclinic atmosphere
[PB83-248690] 04 p0565 N84-13726
A solution-adaptive finite-volume algorithm with application to problems in planetary entry 05 p0678 N84-14457
Global pressure relaxation procedure for laminar and turbulent incompressible flows with strong interaction and separation 05 p0683 N84-14490
Computations of projectile magnus effect at transonic velocities
[AD-A133212] 06 p0783 N84-15127
Finite-difference approximations of the Navier-Stokes equations for incompressible flows 06 p0835 N84-15434
Higher order approximations in fluid mechanisms: Compact to spectral 06 p0839 N84-15466
Numerical simulation of stalling flows by an integral equation method 07 p0956 N84-16199
Progress on a generalized coordinates tensor product finite element 3DPNS algorithm for subsonic
[NASA-CR-172256] 07 p1002 N84-16495
Application of the method of lines for solutions of the Navier-Stokes equations using a nonuniform grid distribution
[NASA-CR-173180] 07 p1060 N84-16870
Numerical solution of the Navier-Stokes equations for arbitrary 2-dimensional multi-element airfoils
[NASA-CR-173251] 07 p1061 N84-16876
The effect of the artificial far field boundary on a finite different approximation of the Navier-Stokes equations for a compressible fluid
[AD-A135152] 08 p1157 N84-17536
Navier-Stokes computations of projectile base flow at transonic speeds with and without base injection
[AD-A135783] 09 p1252 N84-18176
A calculation of the parabolized Navier-Stokes equations for turbulent axisymmetric flows using streamline coordinates and k-epsilon turbulence model
[AD-A136240] 09 p1313 N84-18582
Implicit numerical solution for a normal shock
[AD-A135855] 09 p1314 N84-18590
Analysis of three-dimensional viscous internal flows
[AD-A135762] 09 p1315 N84-18592
The numerical solution of incompressible Navier-Stokes equations
[AD-A136158] 09 p1316 N84-18597
Finite difference methods for the incompressible Navier-Stokes equations: A survey
[AD-A136353] 09 p1374 N84-18969
Computation of discrete slanted hole film cooling flow using the Navier-Stokes equations
[AD-A137022] 10 p1493 N84-19763
Navier-Stokes simulation of homogeneous turbulence on the CYBER 205 10 p1580 N84-20224
Application of improved numerical schemes 11 p1610 N84-20537
Numerical solution for a spinning, nutating, fluid-filled cylinder
[DE84-005878] 11 p1654 N84-20799
Numerical simulations of compliant material response to turbulent flow
[DE84-004365] 11 p1654 N84-20800
Inlet flowfield investigation. Part 2: Computation of the flow about a supercruise forebody at supersonic speeds
[NASA-CR-172315] 12 p1766 N84-21516
A compressible Navier-Stokes code for turbulent flow modeling
[NASA-TM-85899] 12 p1815 N84-21833
Generation of surface-fitted coordinate grids 12 p1871 N84-22194
Application of a fractional-step method to incompressible Navier-Stokes equation
[NASA-TM-85896] 12 p1893 N84-22328
The basic equations for a four component theory of turbulent magnetoplasmadynamics
[IPF-83-3] 12 p1911 N84-22453
La Recherche Aerospatiale, Bimonthly bulletin, number 1983-4, 215/July-August
[ESA-TT-823] 13 p1935 N84-22589
Theoretical investigation of three-dimensional shock wave-turbulent boundary layer interactions, part 2
[AD-A138722] 13 p1990 N84-22916

Solutions of the Navier-Stokes equations for stationary flow in a spherical gap
[PREPRINT-611] 13 p1991 N84-22925
Navier-Stokes calculations for the vortex of a rotor in hover
[NASA-TM-85894] 15 p2255 N84-24540
The computation of inviscid-viscous coupled equations by a finite element method
[ONERA-NT-1983-1] 16 p2486 N84-25957
Computational Fluid Dynamics, volume 1
[VKI-LS-1984-04-VOL-1] 16 p2491 N84-25980
Computational Fluid Dynamics, volume 2
[VKI-LS-1984-04-VOL-2] 16 p2492 N84-25986
Implicit time dependent methods for the solution of the Euler equations 16 p2492 N84-25989
Solution of the compressible Navier-Stokes equations: Applications to complex turbulent flows 16 p2492 N84-25991
Coherent structure modeling of viscous sublayer turbulence for incompressible flow with heat transfer and for compressible flow
[AD-A140478] 16 p2493 N84-25994
Numerical simulation of a three-dimensional chemical laser flow field including radiation produced by laser induced fluorescence 16 p2498 N84-26026
A computational method for viscous incompressible flows
[NASA-TM-85958] 17 p2600 N84-26664
A solution procedure for three-dimensional incompressible Navier-Stokes equation and its application
[NASA-TM-85978] 17 p2600 N84-26666
Logarithmic decrement of oscillations of low-viscosity fluid rotating inside cylindrical vessel 17 p2645 N84-26921
Long-time states of inverse cascades in the presence of a maximum length scale 17 p2666 N84-26999
Numerical simulation of shock/turbulent boundary layer interactions over 2-D compression corners 17 p2666 N84-27000
A numerical study of the 2- and 3-dimensional unsteady Navier-Stokes equations in velocity-vorticity variables using compact difference schemes
[NASA-CR-172353] 17 p2667 N84-27004
On the singular set and the uniqueness of week solutions of the Navier-Stokes equations
[PREPRINT-635] 17 p2759 N84-27523
New hydrodynamic potentials and a free boundary value problem of the stationary Stokes equation
[PREPRINT-636] 17 p2760 N84-27524
Introduction to the theory of fluid and magnetofluid turbulence
[IPPJ-670] 17 p2766 N84-27565
Application of supercomputers to computational aerodynamics
[NASA-TM-85985] 18 p2785 N84-27680
PAN AIR: A computer program for predicting subsonic or supersonic linear potential flows about arbitrary configurations using a higher order panel method. Volume 1: Theory document (version 1.1)
[NASA-CR-3251] 18 p2788 N84-27697
A mixed explicit-implicit antidiffusive method of Navier-Stokes equations for supersonic and hypersonic separated flows
[AD-A141010] 18 p2837 N84-28005
Numerical simulation of boundary-layer transition
[NASA-TM-85864] 19 p2956 N84-28746
Investigation of the mechanism of transonic shock wave/boundary layer interactions using a Navier-Stokes analysis
[AD-A141551] 19 p2959 N84-28752
Application of the implicit MacCormack scheme to the parabolized Navier-Stokes equations
[NASA-CR-166579] 19 p3020 N84-29148
User's guide to the NOZL3D and NOZLIC computer programs
[NASA-CR-159173] 19 p3020 N84-29150
Three-dimensional unsteady viscous flow analysis over airfoil sections
[NASA-CR-172368] 19 p3020 N84-29152
A spectral collocation method for the Navier-Stokes equations
[NASA-CR-172365] 19 p3021 N84-29159
Numerical solution for the interaction of shock wave with laminar boundary layer in two-dimensional flow on a flat plate
[NASA-TM-77408] 19 p3022 N84-29160
Calculation of three dimensional viscous flows in annular cascades using parabolized Navier-Stokes equations 19 p3023 N84-29168
An efficient approximate factorization implicit scheme for the equations of gasdynamics
[NASA-TM-85957] 19 p3062 N84-29556
A direct numerical method for the solution of unsteady Navier-Stokes equations in generalized orthogonal coordinates 21 p3397 N84-31549
A space-marching method for the Navier-Stokes equations for internal flows 21 p3397 N84-31550
Numerical solution of the Euler and the Navier-Stokes equations for a compressible flow problem 21 p3397 N84-31551
Simplified Navier-Stokes equations and combined solution of non-viscous and viscous boundary layer equations
[AD-A141834] 21 p3399 N84-31564
Another attempt to overcome the bent element blues
[DE84-007785] 21 p3400 N84-31571
Two-dimensional vapor flow analysis in heat pipes
[DE84-012581] 21 p3402 N84-31582
Fast solutions to the steady state compressible and incompressible fluid dynamic equations
[NASA-CR-172416] 22 p3530 N84-32349
A finite element implementation of the dual variable method for the Navier-Stokes equations 22 p3592 N84-32746
On the finite element approximation of the stream function-vorticity equations
[AD-A143506] 22 p3594 N84-32758
Computational fluid dynamics at the ICMA (Institute of Computational Mathematics and Applications)
[AD-A143510] 22 p3594 N84-32759
A fully vectorized numerical solution of the incompressible Navier-Stokes equations 23 p3688 N84-33375
The CMC/3DPNS computer program for prediction of three-dimension, subsonic, turbulent aerodynamic juncture region flow. Volume 2: Users' manual
[NASA-CR-165997] 23 p3746 N84-33749
Local and global existence and behavior for t tends to infinity Navier-Stokes equations
[CTH-MATH-1984-08] 23 p3818 N84-34214
Application of computational fluid dynamics in aircraft design
[AD-A144323] 24 p3854 N84-34441
Development of a design-oriented Navier-Stokes cascade analysis
[AD-A144584] 24 p3901 N84-34703

NAVIGATION
NT AIR NAVIGATION
NT ALL-WEATHER AIR NAVIGATION
NT AREA NAVIGATION
NT CELESTIAL NAVIGATION
NT DEAD RECKONING
NT DECCA NAVIGATION
NT DIGITAL NAVIGATION
NT DOPPLER NAVIGATION
NT INERTIAL NAVIGATION
NT LORAN
NT LORAN C
NT NAP-OF-THE-EARTH NAVIGATION
NT OMEGA NAVIGATION SYSTEM
NT RADAR NAVIGATION
NT RADIO NAVIGATION
NT SHORAN
NT SPACE NAVIGATION
NT SURFACE NAVIGATION
NT TACAN
NT VHF OMNIRANGE NAVIGATION
Low altitude simulator training: A-10 aircraft
[AD-A130794] 01 p0016 N84-10106
The calibration and flight test performance of the space shuttle orbiter air data system 01 p0026 N84-10165
Path discrepancies between great circle and rhumb line
[NASA-TM-85522] 08 p1102 N84-17168
Development of a VOR/DME model for an advanced concepts simulator
[NASA-TM-85717] 11 p1604 N84-20505
Guidance and Control Techniques for Advanced Space Vehicles
[AGARD-CP-350] 15 p2265 N84-24603
Multifunction spacecraft attitude estimation and navigation system 15 p2267 N84-24611
Investigation of image enhancement techniques for the development of a self-contained airborne radar navigation system
[NASA-CR-166530] 16 p2445 N84-25684
The development of the Navy variant of the Dauphin 2 helicopter
[SNIAS-832-210-106] 16 p2448 N84-25706
The initial orientation of homing pigeons on the magnetic equator, with and without Sun compass
[INPE-3104-PRE/503] 16 p2534 N84-26271
USSR report: Engineering and equipment
[JPRS-UEQ-84-003] 17 p2640 N84-26895
Successful Arctic testing of KA-32 helicopter 18 p2784 N84-27671
Satellite Emission Range Inferred Earth Survey (SERIES) project
[NASA-CR-173728] 18 p2791 N84-27714
The use of satellite and aircraft SAR to detect and chart hazards to navigation
[AD-A141658] 19 p3041 N84-29296
Integrated CNI (Communication Navigation and Identification) avionics and future standardization
[AD-P003580] 21 p3339 N84-31185

NAVIGATION AIDS
NT BEACONS
NT GYROCOMPASSES
NT LASER ALTIMETERS
NT NAVIGATION INSTRUMENTS
NT RADAR BEACONS
NT RADIO BEACONS
NT RADIO DIRECTION FINDERS
NT SOLAR COMPASSES
Standard Engineering Installation Package. Ground control approach radar systems and radome(S)
[AD-A130726] 01 p0066 N84-10430
Magnetic heading reference
[NASA-CASE-LAR-12638-1] 05 p0629 N84-14132
Integration of ICNIA into advanced high performance fighter aircraft 06 p0772 N84-15059
Multispectral Data Processing System (MDPS)
[AD-A133426] 08 p0896 N84-15816
Satellite-directed navigational guidance for aircraft
[H-REPT-98-510] 08 p1102 N84-17164
OMEGA global radionavigation: A guide for users
[PB84-134345] 10 p1427 N84-19331
The integrated mission-planning station: Functional requirements, aviator-computer dialogue, and human engineering design criteria
[AD-A136609] 10 p1430 N84-19352
Aids to navigation radar 1 principal findings: Performance in limited visibility of short range aids with passive reflectors
[AD-A137596] 11 p1604 N84-20507
LORAN-C signal stability study: Northeast and southeast U.S.
[AD-A137628] 11 p1604 N84-20508
Evaluation of installation of Lightweight Doppler Navigation System (LDNS) in Iroquois UH-1H aircraft
[AD-A137815] 11 p1605 N84-20510
An evaluation of a Honda Electro Gyro-Cator land navigation system
[AD-A138283] 12 p1768 N84-21532
Autonomous navigation of USAF spacecraft
[AD-A139173] 14 p2114 N84-23669
A field evaluation of the Bendix Gyrocompass Navigation System land navigator
[AD-A140368] 16 p2446 N84-25689
The electronic chart
[AD-A140565] 17 p2604 N84-26686
Low-frequency radio navigation system
[NASA-CASE-NPO-15264-1] 18 p2791 N84-27713
Differential NAVSTAR GPS (Global Positioning System) design concept for Harbor/Harbor entrance marine navigation
[AD-A141665] 19 p2961 N84-28769
LANTIRN (Low Altitude Navigation and Targeting Infrared System for Night) - tommorrow's software development today
[AD-P003583] 21 p3339 N84-31188
Sensor noise and Kalman filter for aided inertial navigation system
[AD-A143360] 22 p3534 N84-32372
Temperature controlled gyro
[AD-D011138] 22 p3596 N84-32777
Reference systems for the evaluation of dead-reckoning navigation equipment 24 p3848 N84-34406

NAVIGATION INSTRUMENTS
NT ATTITUDE INDICATORS
NT GYROCOMPASSES
NT RADIO ALTIMETERS
NT RADIO DIRECTION FINDERS
NT SOLAR COMPASSES
FINDS: A fault inferring nonlinear detection system. User's guide
[NASA-CR-172199] 02 p0176 N84-11156
Evaluation of instrument landing system DDM (Difference in Depth of Modulation) calibration accuracies
[AD-A138301] 12 p1768 N84-21533
Reference systems for the evaluation of dead-reckoning navigation equipment 24 p3848 N84-34406

NAVIGATION SATELLITES
NT NAVSTAR SATELLITES
Determination of a geoid profile across the Alps using Doppler measurements of the US Navy Navigation Satellite System (NNSS) 02 p0234 N84-11534
African Doppler surveys (ADOS)
[AD-A131135] 02 p0240 N84-11574
Investigations of Doppler position determination following the short arc and semi short arc techniques — Navy navigation satellite systems 08 p1174 N84-17645

Global positioning system satellite selection evaluation for aided inertial navigation
[AD-A138070] 12 p1767 N84-21527
Satellite Doppler point positioning using the Navy Navigation Satellite System 19 p3039 N84-29281
Final results of Doppler point positioning at several timekeeping laboratories in Europe 19 p3039 N84-29282
Direct measurement of Earth's vertical deflection using global positioning system
[AD-D011099] 22 p3534 N84-32373

NAVSTAR SATELLITES
Monitoring of ship routes via satellite
[DFVLR-MITT-83-15] 07 p0963 N84-16240
Synopsis and recommendations of the TSC Workshop on differential operation of NAVSTAR GPS, June 1983
[PB84-121599] 08 p1103 N84-17170
Frequency stability analysis of GPS (Global Positioning System) NAVSTARs 3 and 4 rubidium clocks and the NAVSTARs 5 and 6 cesium clocks
[AD-A137376] 10 p1425 N84-19318
NAVSTAR GPS simulation and analysis program
[PB84-134402] 10 p1427 N84-19332
Navstar GPS applications to test and training 24 p3850 N84-34418
Simultaneous thermal vacuum testing of GPS drives for NavStar 24 p3862 N84-34473

NAVY
Effect of the microclimate on the night sleep and physical fitness of seamen during a cruise in the low latitudes 08 p1198 N84-17813
Artificial Intelligence-Robotics applications to Navy aircraft maintenance
[AD-A143219] 22 p3529 N84-32345
Navy mobility fuels evaluation
[AD-A144171] 24 p3890 N84-34630

NC-130 AIRCRAFT
U C-130 AIRCRAFT

NEAR FIELDS
Electromagnetic near-field computations for a broadcast monopole using Numerical Electromagnetics Code (NEC)
[AD-A135975] 09 p1303 N84-18516
Pattern deformation of scalar antenna arrays due to near field backscatter
[LFD-210] 15 p2318 N84-24913
Experimental study using Nearfield Acoustical Holography of sound transmission fuselage sidewall structures
[NASA-CR-173639] 17 p2671 N84-27024
Near field effects in radiometer measurements
[FOA-C-30357-E1] 18 p2830 N84-27969
The Technical University of Denmark (TUD)-ESA spherical near field antenna test facility, Lyngby, Denmark
[ESA-BR-19] 20 p3132 N84-29890
A dual-ported, dual-polarized spherical near-field probe
[AD-P003514] 21 p3385 N84-31482
Antenna performance verification at launch site. A feasibility study on preflight performance testing of stripline slot arrays mounted on a rocket
[AD-A143266] 22 p3577 N84-32653
Characteristics and capacities of the NASA Lewis Research Center high precision 6.7- by 6.7-m planar near-field scanner
[NASA-TM-83785] 22 p3598 N84-32789
Studies of the electric field distribution in biological bodies: Experimental dosimetry at radio frequencies
[AD-A143507] 22 p3628 N84-32992

NEAR INFRARED RADIATION
Detectors for optical communications: A review 04 p0518 N84-13404
Near infrared studies of reflection nebulae 06 p0937 N84-16086
A comparison of signal-to-noise ratios for near-infrared detectors
[AD-A138127] 12 p1907 N84-22426
A new method for obtaining individual component spectra from those of complex mixtures
[AD-A139262] 14 p2122 N84-23719
The near infrared polarization of NGC 7023 16 p2572 N84-26508
Photographic surveys of the southern sky 18 p2843 N84-28052
Near infrared observations of the visual reflection nebulae NGC 1023, NGC 2023, and NGC 2068 18 p2948 N84-28695
The near infrared polarization of NGC 7023 — visual reflection nebula 18 p2950 N84-28707
The use of infrared imagery in the study of fault zones
[INPE-3143-PRE/529] 21 p3443 N84-31845

NEAR WAKES
Study of large-scale mixing in developing wakes behind streamlined bodies
[NASA-CR-173478] 12 p1766 N84-21517
The existence of Karman vortex streets of unequal vortex strengths and possible forms of wake flow behind bluff bodies
[DFVLR-FB-83-33] 12 p1766 N84-21519

NEARSHORE WATER
NT COASTAL WATER
Design of the near shore seawater systems for an OTEC expanded test facility
[DE84-004043] 11 p1674 N84-20926

NEBRASKA
Inventory of geothermal resources in Nebraska
[DE84-009679] 20 p3229 N84-30518

NEBULAE
NT CRAB NEBULA
NT ORION NEBULA
NT PLANETARY NEBULAE
NT REFLECTION NEBULAE
Near infrared studies of reflection nebulae 06 p0937 N84-16086
Observations of the unidentified 3.3 microns emission feature in compact HII regions 06 p0937 N84-16089
Physics and chemistry in the primitive solar nebula
[MPE-PREPRINT-21] 13 p2091 N84-23547
New infrared observations of IRS1, IRS3 and the adjacent nebula in the OMC-2 cluster 16 p2572 N84-26506
The near infrared polarization of NGC 7023 16 p2572 N84-26508
Neutral carbon in the Egg Nebula (AFGL 2688)
[NASA-TM-84360] 16 p2574 N84-26516
Determination of nebular temperature and density from radio recombination lines 16 p2578 N84-26541
A search for X-ray polarization in cosmic X-ray sources — binary X-ray sources and supernovae remnants
[NASA-CR-173635] 17 p2781 N84-27857
Infrared polarimetry of young clusters 18 p2950 N84-28704
Optical and infrared polarization as a probe of matter near stars 21 p3524 N84-32324
The hydrogen-deficient irregular variable star V348 SGR 24 p3978 N84-35200

NECK (ANATOMY)
Cervical spine analysis for ejection injury prediction
[AD-A131081] 01 p0114 N84-10739

NEEDLES
Determining attitude of object from needle map using extended Gaussian image
[AD-A131617] 02 p0240 N84-11571

NEEDS (DATA SYSTEM)
Study of a Tracking and Data Acquisition System (TDAS) in the 1990's
[NASA-CR-173262] 10 p1433 N84-19368

NEGATIVE FEEDBACK
NT SENSORY FEEDBACK
Self-oscillations and predictability in climate dynamics
[AERONOMICA-ACTA-A-278-1984] 16 p2527 N84-26226

NEGATIVE IONS
Investigation of the dynamics and threshold behavior of endothermic negative ion-neutral reactions
[DE84-001389] 04 p0602 N84-13975
Extraction of volume produced H(-) or D(-) ions from a sheet plasma I
[IPPJ-845] 06 p0919 N84-15974
Brighter H(-) source for the intense pulsed neutron source accelerator system
[DE84-003608] 07 p1072 N84-16965
Normalized emittance of SITEX negative ion source
[DE84-003285] 07 p1072 N84-16967
Laser-induced neutralization and negative-ion formation in surface scattering
[AD-A135907] 09 p1322 N84-18641
Negative ion beam requirements for compact tori
[DE84-005752] 12 p1910 N84-22447
Formation of negative ions by charge transfer: He(-) to Cl(-)
[DE84-005718] 13 p2041 N84-23243
Design and fabrication of a surface conversion negative ion source and an 80 keV pre-accelerator
[DE84-006753] 13 p2045 N84-23269
Generation of intense polarized beams by selective neutralization of negative ions
[DE84-007377] 15 p2405 N84-25437
Laser photoelectron spectroscopy of ions
[DE84-008932] 18 p2812 N84-27852
Negative ion formation due to hydrogen plasma surface interaction
[DE84-012259] 22 p3659 N84-33192
Reactions of negative ions
[AD-A143793] 23 p3714 N84-33541
Three chamber negative ion source
[DE84-014505] 23 p3823 N84-34243
Ion source with improved primary arc collimation
[DE84-014359] 23 p3823 N84-34244
Studies of compound states of atomic negative ions using laser beams
[AD-A144653] 24 p3962 N84-35091

NEODYMIUM
Rare-earth ion-host lattice interactions: 15. Analysis of the spectra of Nd3+ in Gd3Sc2Ga3O12
[AD-A142555] 20 p3309 N84-31015

NEODYMIUM COMPOUNDS
Study of intermetallic compounds in ternary systems Al-Ba-Nd and Al-Ba-Yb
[BLL-M-35387-(5828.4)] 08 p1129 N84-17343

NEODYMIUM LASERS
Photoconductive power switches
[DE83-015239] 02 p0224 N84-11469
Electromagnetic forces related to flash-lamp failures in the Nova/Novette amplifiers
[DE83-016524] 02 p0227 N84-11491
Experiments to study the feasibility of making an X-ray laser at the Novette laser facility
[DE83-015615] 03 p0380 N84-12476
NOVANET: Communications network for a control system
[DE83-013882] 04 p0523 N84-13436
High energy efficient solid state laser sources — slab geometry laser sources
[NASA-CR-174606] 04 p0539 N84-13548
NdP5O14 crystal used for miniature rangefinder
[AD-A132541] 04 p0539 N84-13549
The Nova laser assurance-management system
[DE83-018138] 04 p0542 N84-13566
Observation of magnetic fields in laser-produced plasma using the Zeeman effect
[DE84-002742] 06 p0921 N84-15989
Variation of laser absorption with plasma scalelength in long-scalelength plasmas
[DE84-002743] 06 p0921 N84-15991
Design and construction of large capacitor banks
[DE84-002790] 07 p0998 N84-16472
Analysis of a 10 megawatt space-based solar-pumped neodymium laser system
[NASA-CR-3774] 07 p1009 N84-16544
Reliability modeling of critical electronic devices
[AD-A135705] 09 p1328 N84-18669
Inertial fusion research at the University of Rochester: Progress in direct drive
[DE84-003691] 10 p1501 N84-19807
Spectroscopic evaluation of Nd(3+):CAMGAR and H sub o(3+):YLF as 0.94 micrometer lasers
[AD-A137610] 11 p1662 N84-20945
Specifics of structure formation in nitrides synthesized by laser action on metals 12 p1784 N84-21640
The construction of a Nd:YAG laser and observation of the output
[AD-A138055] 12 p1820 N84-21860
The 1982 laser program
[DE84-006478] 14 p2151 N84-23887
Nd: YAG laser improvements and modifications
[DE84-009024] 15 p2340 N84-25044
Tunable optical sources
[AD-A140984] 18 p2845 N84-28068
Design and operation mode of Nd:YAP lasers in Modular Transportable Laser Ranging System (MTLRS) 19 p3040 N84-29290
Incorporation of an Nd:YAG laser engraver into Mound's machining operations
[DE84-014339] 23 p3755 N84-33801

NEON
NT NEON ISOTOPES
Continued investigation of the atomic physics of flashlamp pumped cesium-neon lasers
[AD-A130223] 01 p0086 N84-10561
Collisional excitation and radiation of atoms and molecules
[AD-A134093] 05 p0743 N84-14881
Scattering distribution characteristics of rare gases reflected from metal surface with absorbed gas molecules
[NAL-TR-761] 09 p1394 N84-19101
Charge state resolved energy spectra of He, N, Ar, and Ne ions — in a plasma focus 10 p1582 N84-20366
Abundances in galactic H2 regions, 3: G25.4-0.2, G45.5+0.06, M8, S159 and DR22
[NASA-TM-85962] 17 p2774 N84-27816
Improved gaseous leak detector
[DE84-011295] 20 p3190 N84-30265

NEON ISOTOPES
Neon transport in selected organic composites — stopping power of Kapton and polyethylene
[NASA-TM-85693] 08 p1231 N84-18044

NEON 19
U NEON ISOTOPES

NEOPLASMS
NT CANCER

NEOPRENES
U CHLOROPRENE RESINS

NEPHANALYSIS
Evaluation of automated imagery analysis algorithms for use in the three-dimensional nephanalysis model at AFGWC (Air Force Global Weather Central)
[AD-A131986] 03 p0410 N84-12686
NEPHELOMETERS
An experimental device for real time determination of slant path atmospheric contrast transmittance (prototype status)
[AD-A134000] 05 p0702 N84-14610
Atmospheric contrast transmittance monitor
[AD-D011167] 23 p3798 N84-34083
NEPTUNE (PLANET)
A 2:1 Commensurability in Uranus-Neptune system
19 p3120 N84-29633
NERVES
Summary of study group session discussions
02 p0264 N84-11739
Measurements, in vivo, of parameters of the dopamine system
[DE83-017964] 03 p0414 N84-12709
Studies of electrically stimulated rat limb and peripheral nerve regeneration
[AD-A134358] 08 p1197 N84-17806
Bioassay, isolation and studies on the mechanism of action of neurite extension factor
09 p1359 N84-18881
Neurophysiological approaches to higher brain functions
[PB84-175769] 17 p2746 N84-27434
Modulation of the cholinergic mechanisms in the bronchial smooth muscle
[NORE/PUBL-84/1001] 21 p3457 N84-31937
Nonlinear dynamics in excitable nerve membranes
21 p3477 N84-32037
NERVOUS SYSTEM
NT AFFERENT NERVOUS SYSTEMS
NT AUTONOMIC NERVOUS SYSTEM
NT AXONS
NT BRAIN
NT CENTRAL NERVOUS SYSTEM
NT CEREBELLUM
NT CEREBRAL CORTEX
NT CEREBRUM
NT EFFERENT NERVOUS SYSTEMS
NT NERVES
NT NEURONS
NT PERIPHERAL NERVOUS SYSTEM
NT SPINAL CORD
NT SPINE
NT SYMPATHETIC NERVOUS SYSTEM
NT SYNAPSES
Measurements, in vivo, of parameters of the dopamine system
[DE83-017964] 03 p0414 N84-12709
Dynamic models of neural systems: Propagated signals, photoreceptor transduction, and circadian rhythms
[AD-A137826] 11 p1695 N84-21059
Customary naltrexone reverses radiogenic and morphine-induced locomotor hyperactivity
[AD-P003252] 18 p2905 N84-28419
USAFSAM (USAF School of Aerospace Medicine) review and analysis of radiofrequency radiation bioeffects literature
[AD-A142961] 21 p3453 N84-31912
NETHERLANDS
Interpretability of wetland on SEASAT-A imagery in the polderland of Flanders: A structural approach
03 p0397 N84-12597
Bibliography of the climate of the Netherlands and atmospheric conditions in the Netherlands
[KNMI-164] 05 p0706 N84-14635
Review of publications on the Dutch wind climate
[KNMI-TR-41(FM)] 10 p1539 N84-20081
Forecasting the windstorm of 12 May 1983 (Acension Day) — the Netherlands
[KNMI-TR-43] 13 p2017 N84-23079
Wind climate of the Netherlands
[ISBN-90-12-04466-9] 14 p2178 N84-24045
Increasing birdstrike rates and improved birdstrike analysis of the Royal Netherlands Air Force
[AD-P003216] 17 p2594 N84-26629
Climatology of heating-degree days in the Netherlands during the years 1961-1980
[KNMI-TR-47] 18 p2891 N84-28351
Inventory RF radiation levels in the Netherlands, part 1
[LEOK-TR-1984-02-PT-1] 20 p3175 N84-30167
Environmental effects of increasing the amount of district heating in the Netherlands
[S/T-REPT-VOL-1-NO-5] 20 p3238 N84-30558
Activities of the Technical Physics Service of the Dutch Central Organization for Scientific Research, past and present
23 p3845 N84-34393
NETS
JBFA - buoyant flight
[NASA-TM-76815] 07 p0946 N84-16136
Switching net models: Rudimentary behavior, representations and applications
[AD-A140047] 15 p2398 N84-25391
Multidirectional force and moment transducer
[REPT-5211901-80-1] 17 p2629 N84-26815
Pressure compensated force transducer — for fishing nets
17 p2629 N84-26817
NETWORK ANALYSIS
NT CRITICAL PATH METHOD
Association for Energy Systems, Operations and Programming (AESOP) Topical Conference summary of proceedings
[CONF-820966-SUMM] 01 p0101 N84-10659
Dynamic programming algorithms and analyses for nonserial networks, part 1
[AD-A130885] 01 p0122 N84-10795
Speeds: A new technique for the analysis and optimization of queueing networks
[PB83-228951] 01 p0137 N84-10901
Research in network management techniques for tactical data communications networks
[AD-A131357] 02 p0209 N84-11365
An alternative to the Monte Carlo estimation of network reliability
[AD-A131849] 03 p0427 N84-12800
Superregenerative amplifier in linear mode as a radar range gate-derivations
[DE84-000978] 04 p0528 N84-13474
Communications network design and costing model technical manual
[NASA-CR-168236] 05 p0666 N84-14376
Communications network design and costing model programmers manual
[NASA-CR-168237] 05 p0666 N84-14377
Communications network design and costing model users manual
[NASA-CR-168238] 05 p0666 N84-14378
A learning approach to routing in data communication networks
[REPT-8212] 06 p0899 N84-15834
Logic simulator program 06 p0827 N84-16023
Production networks: A dynamic model of production
[AD-A133571] 06 p0933 N84-16065
Edge display spanning trees and recovery in data communication networks
[AD-A134378] 07 p0993 N84-16437
A computer program for reliability evaluation of large-scale undirected networks via polygon-to-chain reductions
[AD-A134190] 07 p1054 N84-16826
Performance evaluation of circuit switching for data networks
[ENST-C-83001] 07 p1056 N84-16842
Estimating critical path and arc probabilities in stochastic activity networks
[AD-A134255] 07 p1067 N84-16925
A program for computer-controlled impedance measurement within the microwave range — antennas
[FOA-C-30330-E3] 08 p1146 N84-17460
A stochastic network formulation for performance assessment and life-cycle modeling in complex system design
[AD-A135337] 08 p1219 N84-17960
Probabilistic planning and budgeting for R and D programs involving activities of high uncertainty
[DE84-002310] 08 p1238 N84-18093
Intrasystem Analysis Program (IAP) code summaries
[AD-A135673] 09 p1301 N84-18507
Simulation tools for digital LSI (Large Scale Integration) design
[AD-A136116] 09 p1369 N84-18938
Various aspects of network reliability
[AD-A136579] 09 p1384 N84-19038
ESATAN: A thermal network analysis computer program 10 p1443 N84-19426
Test methodology for the level two subsystem of an X25 procedure for data terminal equipment — packet switching, open systems interconnection
[FUB-3-1983] 10 p1483 N84-19694
Decomposition and scaling-inequality for line-sum-symmetric nonnegative matrices
[DE84-005839] 11 p1719 N84-21211
Reliability analysis using network simulation
[DE84-006990] 12 p1904 N84-22397
The operator mapping between relational algebra operators and CODASYL based databases managed by a CODASYL DBMS
[AD-A138117] 12 p1918 N84-22497
Empirical analysis of a token ring network
[AD-A138905] 13 p2030 N84-23164
Space and time analysis in dynamic programming algorithms
[AD-P002963] 14 p2200 N84-24203
Estimating network reliability with accelerated convergence rates on error bounds
[AD-A139841] 15 p2397 N84-25383
The ROE file system
[AD-A140497] 16 p2567 N84-26473
How to check line channel of IKM-15 digital pulse-code-modulation transmission system
17 p2633 N84-26842
The relaxation time of two queueing systems in series
[MC-BW-192/83] 17 p2761 N84-27537
Stochastic bounds on distributions of optimal value functions with applications to PERT, network flow and reliability
[REPT-81] 17 p2771 N84-27593
Managing distributed databases in partitioned networks 17 p2772 N84-27599
Network repair level analysis model user's guide
[AD-A141991] 20 p3269 N84-30743
Automated Construction Management System (ACMS). Volume 1: User's guide
[AD-A143031] 21 p3465 N84-31971
A physical database design methodology using the property of separability 21 p3517 N84-32281
Generation of two stage random graphs — telecommunication network analysis
[FI-032-TB-16] 23 p3732 N84-33654
Decentralized system theory
[DE84-013658] 23 p3820 N84-34227
Report of the Information Technology Workshop
[AD-A144212] 24 p3968 N84-35126
NETWORK CONTROL
System hardware for the implementation of frame protocol in packet switched networks
[FUB-58-1981] 05 p0731 N84-14803
Efficient utilization of the DRAMA service channel
[AD-A133266] 06 p0823 N84-15368
Performance evaluation and control of distributed computer communication networks
[AD-A135121] 08 p1215 N84-17928
Application of a distributed routing algorithm to a packet-switched communications network
[AD-A139147] 14 p2140 N84-23828
Development and investigation of a high level token passing module for local communication networks — microprocessors
[HMI-B-387] 15 p2322 N84-24941
General triangulation: Incorporating photogrammetric and other observations 15 p2358 N84-25151
NETWORK SYNTHESIS
Tuned analog network
[NASA-CASE-GSC-12650-1] 05 p0673 N84-14421
Analysis of a network structure for algorithm testing — communication networks
[FUB-1-1983] 05 p0732 N84-14804
Aperture efficiency considerations in the convolution synthesis of symmetrical hexagonal arrays
[AD-A133367] 06 p0824 N84-15369
Modeling by means of networks
[IWECO-5177401-83-1] 12 p1804 N84-21761
Methodical layout of mechanical systems with regard to optimum vibrational behavior
[REPT-36] 12 p1825 N84-21898
Local network wideband interconnection alternatives
[AD-A139604] 13 p1982 N84-22868
P-valued input, Q-valued output threshold logic and its application to the synthesis of P-valued logical networks
[AD-P002336] 14 p2190 N84-24127
Synthesis of multiple-valued logic functions based on a modular design approach
[AD-P002378] 14 p2195 N84-24169
Report of the Information Technology Workshop
[PB84-163203] 14 p2248 N84-24500
Project FIRST (Faculty Information and Research Service for Texas) technical description of project and results
[PB84-161629] 14 p2248 N84-24501
Relations between algorithms of adaptive optimization of antenna arrays and algorithms of optimum detection of multidimensional stochastic signal
22 p3566 N84-32588
NETWORKS
Network communications for a distributed avionics system 06 p0771 N84-15052
Design of microwave beam-switching networks
[AD-A137240] 10 p1478 N84-19661
A method of test generation for verification of wiring correctness
[AD-P002376] 14 p2195 N84-24167
NEUMANN PROBLEM
The Dirichlet-Neumann boundary control problem associated with Maxwell's equations in a cylindrical region
[AD-A137937] 11 p1715 N84-21184
Conjugate gradient coupled with multigrid for an indefinite problem
[NASA-CR-172379] 19 p3082 N84-29558

NEUROLOGY
Event-related brain potentials: An alternative methodology for neurotoxicological research
[PB83-246116] 04 p0573 N84-13775
Behavioral and prenatal effects of 60-Hz fields
[DE84-001126] 05 p0712 N84-14664
Rabbit neurobehavioral toxicity from aluminum
[PB84-103266] 08 p1198 N84-17809
Relationship between cardiovascular system response and adrenocortical glucocorticoid function on exposure to diffuse, low-intensity helium-neon laser emission
17 p2741 N84-27405
Neurophysiological approaches to higher brain functions
[PB84-175769] 17 p2746 N84-27434
NEUROMUSCULAR TRANSMISSION
Presynaptic elements involved in the maintenance of the neuromuscular junction 09 p1358 N84-18875
Continuous ECG monitoring by the Holter method
11 p1700 N84-21086
The Holter method in aeronautical medicine
11 p1700 N84-21087
Biochemical measurements of the human stress response
[AD-A139381] 14 p2184 N84-24089
Hyperpyrexia and head trauma
[AD-A139420] 14 p2185 N84-24090
Human response to pyridostigmine bromide
[AD-A140960] 18 p2900 N84-28395
Human stomach motor and evacuatory functions during antiorthostatic hypokinesia 20 p3253 N84-30649
NEURON TRANSMISSION
U BIOELECTRICITY
NEURONS
Study on extremizing adaptive systems and applications to synthetic aperture radars
[AD-A133945] 05 p0667 N84-14385
The C-squared system: A general-purpose neuron network model
[AD-A136191] 09 p1304 N84-18524
Rodent CNS neuron development: Timing of cell birth and death 09 p1357 N84-18870
Presynaptic elements involved in the maintenance of the neuromuscular junction 09 p1358 N84-18875
Infinite dimensional stochastic differential equation models for spatially distributed neurons
[AD-A136507] 09 p1376 N84-18886
Dynamic models of neural systems: Propagated signals, photoreceptor transduction, and circadian rhythms
[AD-A137826] 11 p1695 N84-21059
Time-dependent spinal cord changes following nonionizing microwave irradiation
20 p3256 N84-30678
Reactions of cerebral cortex neurons to alternating magnetic field on glutamic acid
20 p3258 N84-30681
Mechanisms of thermoregulation of rats exposed to hypergravic fields 22 p3626 N84-32969
NEUROPHYSIOLOGY
Neurocognitive pattern analysis
[AD-A131302] 01 p0114 N84-10740
Neurophysiological bases of event-related potentials
[AD-A135263] 09 p1382 N84-18897
The U.S. Air Force neurophysiological workload test battery: Concept and validation
11 p1696 N84-21064
Variations in states of alertness during continuous operations at the control post level
11 p1697 N84-21068
Neurophysiological approaches to higher brain functions
[PB84-175769] 17 p2746 N84-27434
Quaternary naltrexone reverses radiogenic and morphine-induced locomotor hyperactivity
[AD-P003252] 18 p2905 N84-28419
Physiology 22 p3684 N84-33363
The time it takes to see 24 p3914 N84-34782
NEUROSCIENCE
U NEUROLOGY
NEUTRAL ATMOSPHERES
An atmospheric millimeter wave propagation model
[AD-A139154] 14 p2176 N84-24033
NEUTRAL ATOMS
Laser-Cooled and Trapped Atoms
[PB83-238196] 02 p0192 N84-11249
Introduction: Advances and opportunities in cluster research
[DE84-000364] 04 p0594 N84-13917
Construction and operational experience of the tandem mirror experiment-upgrade (TMX-U)
[DE83-018181] 04 p0605 N84-13995
Experimental results on finite-beta limits and transport in the ISX-B Tokamak
[DE84-000258] 04 p0606 N84-14001
Low energy ion-neutral collisions
[DE84-005392] 11 p1730 N84-21267
Neutral carbon in the Egg Nebula (AFGL 2688)
[NASA-TM-84360] 16 p2574 N84-26518
Three chamber negative ion source
[DE84-014505] 23 p3823 N84-34243
NEUTRAL BEAMS
NT MOLECULAR BEAMS
NT NEUTRON BEAMS
Efficient radiation-hardened, 400- and 600-keV neutral-beam injection systems
[DE83-015691] 03 p0440 N84-12886
Operational studies and expected performance of superconducting quadrupole magnets in the first stages of secondary beams
[DE83-016734] 03 p0456 N84-12999
Summary of the status of negative-ion-based neutral beams
[DE84-001328] 04 p0598 N84-13948
Optimized baffle and aperture placement in neutral beamlines
[DE84-003746] 09 p1388 N84-19062
A comment on atomic processes relevant to alpha particle diagnostics 11 p1736 N84-21323
Fault detection and protection system for neutral beam generators on the Neutral Beam Engineering Test Facility (NBETF)
[DE84-006634] 12 p1903 N84-22394
Generation of intense polarized beams by selective neutralization of negative ions
[DE84-007377] 15 p2405 N84-25437
Impurity characteristics of TMX-U
[DE84-012413] 20 p3297 N84-30932
Pulsed high-current source of negatively charged hydrogen ions
[DE84-012989] 21 p3496 N84-32158
High power neutral beam heating on Doublet 3
[DE84-012471] 21 p3501 N84-32186
Investigation of neutral beam driven impurity flow reversal as an impurity control method in future Tokamaks
[DE84-008855] 21 p3501 N84-32191
Alpha-particle simulation using NBI beam and ICRF wave
[IPPJ-688] 23 p3827 N84-34270
NEUTRAL GASES
Modeling of modification experiments involving neutral-gas release
[DE83-012785] 02 p0250 N84-11634
Theory of interstellar medium diagnostics
03 p0472 N84-13108
Modeling of modification experiments involving neutral gas release — from space shuttles
05 p0640 N84-14209
The ISPM interstellar neutral-gas experiments
09 p1261 N84-18234
Far-IR spectroscopy of the galactic center: Neutral and ionized gas in the central 10 pc of the galaxy
[NASA-CR-166510] 13 p2070 N84-23411
Numerical and analytical studies of beam channel tracking
[AD-A139148] 14 p2222 N84-24332
Neutral gas plasma interactions and critical ionization velocity phenomena
[AD-A139233] 14 p2228 N84-24360
The behaviour of the 3.28 micron dust feature in NGC 2024 16 p2571 N84-26498
Initiation and accretion experiment on the HDZP
[DE84-009997] 18 p2933 N84-28601
Plasma and magnetospheric research
[NASA-CR-171157] 23 p3827 N84-34275
NEUTRAL PARTICLES
NT FAST NEUTRONS
NT NEUTRONS
NT THERMAL NEUTRONS
Mass spectrometry detection of neutral dissociative fragments
[AD-A135847] 09 p1279 N84-18351
Numerical analyses for scrape-off plasmas in FER divertor chamber 11 p1734 N84-21313
Discrete elements method of neutral particle transport
[AD-A138080] 12 p1902 N84-22384
Effects of neutrals on particle transport of a plasma
[IPPJ-681] 23 p3827 N84-34274
NEUTRAL SHEETS
Dissipative instabilities of magnetic neutral layers with velocity shear
[IFSI-82-13] 03 p0451 N84-12985
Non-stochastic acceleration of protons in the magnetic neutral sheet
[IPPJ-646] 06 p0919 N84-15975
Fast collisionless tearing in an anisotropic neutral sheet
[NASA-CR-175415] 11 p1737 N84-21331
NEUTRINO BEAMS
Neutrino-oscillation experiments at Brookhaven National Laboratory
[DE83-018275] 04 p0528 N84-13476
NEUTRINOS
NT SOLAR NEUTRINOS
Research in theoretical physics
[DE83-0166222] 03 p0456 N84-13004
Double beta decay: Recent developments and projections
[DE84-000476] 04 p0598 N84-13944
Proceedings of the Summer Workshop on Proton Decay Experiments
[DE83-009572] 04 p0603 N84-13960
Radiation transport in numerical astrophysics
[DE84-002011] 05 p0763 N84-15008
Type II successful supernovae, the anatomy of shocks: Neutrino emission and the adiabatic index
[DE84-002858] 11 p1757 N84-21472
Particle theory, cosmology and relativity
[DE84-003990] 11 p1760 N84-21489
The 19th Moriond meeting: Summary talk
[DE84-010053] 20 p3319 N84-31072
Axions, neutrinos and strings: The formation of structure in an SO(10) universe
[NASA-TM-86139] 22 p3878 N84-33317
New method in elementary particle detection
[AD-A144057] 23 p3822 N84-34240
Implications of a class of grand unified theories for large scale structure in the universe
[NASA-TM-86146] 24 p3967 N84-35240
Satellite observations of the extreme ultraviolet and far ultraviolet radiation fields 24 p3994 N84-35280
NEUTRON ACTIVATION ANALYSIS
Studies of neutron and proton nuclear activation in low-Earth orbit 2 06 p0930 N84-16041
A multi-element study of ISUA iron-formation, W-Greenland 11 p1680 N84-20961
NEUTRON BEAMS
Investigation of the paramagnetic phase of BCC iron using polarized neutron scattering
[DE84-002857] 07 p0974 N84-16315
Correlation of yield stress changes in 316 stainless steel irradiated with high-energy and fission neutrons
[DE84-002115] 08 p1133 N84-17368
Wire tensile testing for radiation hardening experiments
[DE84-005884] 11 p1634 N84-20684
Spin correlations near the ferromagnetic to spin glass crossover
[DE84-007385] 15 p2299 N84-24799
Microstructural evaluation of a ferritic stainless steel by small angle neutron scattering
[DE84-009487] 19 p2995 N84-29960
NEUTRON COUNTERS
NT NEUTRON SPECTROMETERS
Measuring the neutron energy spectrum of laser-fusion targets with CR-39
[DE84-001422] 04 p0539 N84-13543
Modulation of cosmic rays with particular reference to the Hermanus neutron monitor
09 p1344 N84-18780
NEUTRON CROSS SECTIONS
Comparison of measured and calculated helium production in nickel using newly evaluated neutron cross sections for (59)Ni
[DE84-000565] 04 p0611 N84-14035
Neutron cross sections for defect production by high-energy displacement cascades in copper
[DE84-002116] 07 p1083 N84-17045
An annotated bibliography covering generation and use of evaluated cross section uncertainty files
[BNL-NCS-51684] 16 p2566 N84-26485
Survey of atmospheric radiation components for the Gamma and Cosmic Ray Astrophysics Branch of the Space Science Division of the Naval Research Laboratory
[AD-A141134] 19 p3124 N84-29845
NEUTRON DECAY
Applications for fission product data to problems in stellar nucleosynthesis
[DE84-004819] 10 p1596 N84-20458
NEUTRON DETECTORS
U NEUTRON COUNTERS
NEUTRON DIFFRACTION
Phonon dispersion of transverse basal-plane modes in alkali-graphite compounds
[DE83-003910] 03 p0350 N84-12273
Dynamical friction in condensed matter
[DE84-004202] 10 p1589 N84-20415
Neutron diffraction studies of some rare earth-transition metal deuterides
[AD-A140757] 17 p2784 N84-27557
NEUTRON EMISSION
Macroscopic plasma behavior and charged particle acceleration in the plasma focus
10 p1581 N84-20363
Plasma focus evolution in time as seen from its neutron, gamma and X ray activities 10 p1582 N84-20365
Ion and neutron emission of the Poseidon plasma focus 10 p1582 N84-20370

NEUTRON FLUX
U FLUX (RATE)

NEUTRON FLUX DENSITY
Applications for fission product data to problems in stellar nucleosynthesis
[DE84-004619] 10 p1596 N84-20458

NEUTRON IRRADIATION
Comparison between measured and predicted performance of a high speed, free surface liquid jet flowing along a curved wall
[DE83-012728] 01 p0082 N84-10530
Calculations of radiation fields and monkey mid-head and mid-thorax responses in AFRRI-TRIGA reactor facility experiments
[DE83-015483] 02 p0264 N84-11741
Comparison of damage microstructures in neutron-irradiated vanadium and iron
[DE83-017189] 03 p0354 N84-12304
Spallation and 14-MeV neutron irradiation of stabilized NbTi superconductors
[DE83-017973] 03 p0368 N84-12394
Real-time attenuation of heated optical fibers in a nuclear reactor
[DE83-015141] 03 p0438 N84-12873
Monte Carlo calculations of neutron and gamma-ray energy spectra for fusion-reactor shield design: Comparison with experiment
[DE83-016932] 03 p0449 N84-12956
Microstructure of 9 Cr-1 MoVNb steel irradiated to 40 dpa at elevated temperatures in HFIR
[DE84-000339] 04 p0501 N84-13285
Development and fabrication of a high current, fast recovery power diode
[NASA-CR-168196] 04 p0524 N84-13443
Radiation hardening of oxygen-doped niobium by 14-MeV neutrons
[DE84-000103] 04 p0610 N84-14026
Fracture-mechanics behavior of neutron-irradiated alloy A-286
[DE84-001467] 07 p0975 N84-16320
HEXANN-EVALU: A Monte Carlo program system for pressure vessel neutron irradiation calculation
[VTT-RR-210] 07 p1073 N84-16975
The neutron induced embrittlement of reactor pressure vessel steels and ferritic alloys
[AD-B060746] 15 p2295 N84-24770
High temperature and post irradiation piezoelectric properties of strontium niobate, Sr2Nb2O7
[AERE-R-11112] 18 p2820 N84-27906
Motor performance in irradiated rats as a function of radiation source, dose, and time since exposure
[AD-A141209] 18 p2894 N84-28363
Cosmic ray NM-64 neutron monitor data-9, January-December 1980, Rome, Italy
[IFSI-83-11] 18 p2954 N84-28722
Cosmic ray NM-64 neutron monitor data-10, January-December 1981, Rome, Italy
[IFSI-83-12] 18 p2954 N84-28723
Cosmic ray NM-64 neutron monitor data-9, January-December 1982, Rome, Italy
[IFSI-83-13] 18 p2954 N84-28724
Neutron embrittlement of the reactor vessel in Borssele as determined from Charpy specimens
[S/T-REPT-VOL-1-NO-4] 20 p3204 N84-30352
Defect production efficiencies in thermal neutron irradiated copper and molybdenum
[DE84-010993] 20 p3309 N84-31018
Study of proton and neutron activation of metal samples in low Earth orbit
[NASA-CR-171113] 21 p3430 N84-31763
Fatigue behavior at 650 deg of 20 percent-cold-worked type 316 stainless steel irradiated at 550 deg C in the HFIR
[DE84-014269] 23 p3718 N84-33572
Fracture toughness of irradiated HT-9
[DE84-013935] 23 p3719 N84-33578
Contribution ot the high temperature deformation behavior of the austenitic steel 1.4961 after neutron irradiation
[JUEL-1904] 23 p3720 N84-33584

NEUTRON PHYSICS
OMEGA documentation
[DE84-007014] 14 p2206 N84-24239

NEUTRON RADIOGRAPHY
Advanced ND techniques for composite primary structures 01 p0034 N84-10216
Neutron radiographic study of liquid propellant combustion 13 p1949 N84-22669
Application of NDE methods to green ceramics: Initial results
[DE84-006411] 14 p2130 N84-23769

NEUTRON SCATTERING
The measurement of the diffusive motion of protons in biological systems
[AD-A129276] 01 p0142 N84-10930
What can be learned with fast neutrons?
[DE83-015783] 01 p0144 N84-10948
Miniaturized disk bend tests of neutron-irradiated path A type alloys
[DE84-001277] 04 p0549 N84-13618
Neutron-scattering studies of magnetic superconductors
[DE84-000393] 04 p0614 N84-14054
Atom-jump versus continuous models for fast ion conduction 11 p1741 N84-21357
Theoretical study of neutron scattering cross sections in semiconductors
[DE84-007540] 15 p2415 N84-25498
A study of ultrafine porosity in hydrated cements using small angle neutron scattering
[AERE-R-10954] 18 p2820 N84-27907
Magnetic excitations in transition-metal ferromagnets. Recent progress and future prospects on neutron scattering experiments
[DE84-008808] 18 p2928 N84-28586
Band structure effects in the electronic properties of solids assessible in neutron scattering studies
[DE84-006557] 18 p2941 N84-28654
Microstructural evaluation of a ferritic stainless steel by small angle neutron scattering
[DE84-009487] 19 p2995 N84-28980
Introduction to neutron scattering by magnetic excitations
[DE84-006579] 20 p3293 N84-30904

NEUTRON SOURCES
Novel neutralized-beam intense neutron source for fusion technology development
[DE83-014953] 01 p0144 N84-10949
ASPUN, Argonne super intense pulsed pallation neutron source
[DE84-000311] 04 p0597 N84-13941
Imaging of fast-neutron sources using solid-state track-recorder pinhole radiography
[DE84-001466] 05 p0685 N84-14504
Some observable indicators of s-process environments
[DE84-001720] 05 p0763 N84-15006
Design and use of nonstandard tensile specimens for irradiated materials testing
[DE84-001468] 06 p0806 N84-15254
Performance of the intense pulsed neutron source accelerator system
[DE84-003607] 07 p1072 N84-16966
Preliminary tests of a second harmonic RF system for the intense pulsed neutron source synchrotron
[DE84-003595] 08 p1230 N84-18041
The significance of the pinch phase for the production of neutrons in a plasma focus
[IPF-83-2] 14 p2231 N84-24379
High-current, low-energy synchrotrons and compressor rings
[DE84-012104] 20 p3293 N84-30906

NEUTRON SPECTRA
Transmission of fast neutrons from the Li(d,xn) reaction through thick iron
[DE83-015975] 03 p0439 N84-12884
Monte Carlo calculations of neutron and gamma-ray energy spectra for fusion-reactor shield design: Comparison with experiment
[DE83-016932] 03 p0449 N84-12956
Measuring the neutron energy spectrum of laser-fusion targets with CR-39
[DE84-001422] 04 p0539 N84-13543
Kerma factors for use in 37-group neutron spectrum calculations
[AD-A139033] 13 p2041 N84-23240
Recent re-measurement of neutron and gamma-ray spectra 1080 meters from the APRD (Army Pulse Radiation Division) critical facility
[AD-A141791] 19 p3124 N84-29846
Modifications to iterative recursion unfolding algorithms and computer codes to find more appropriate neutron spectra
[AD-A142475] 20 p3273 N84-30775

NEUTRON SPECTROMETERS
Analysis of a time-of-flight neutron spectrometer
[DE84-006504] 11 p1661 N84-20836
Chopper spectrometers
[DE84-009205] 19 p3026 N84-29193

NEUTRON STARS
NT PULSARS
Self-consistent models for Coulomb heated X-ray pulsar atmospheres
[NASA-TM-85087] 02 p0307 N84-12012
Hydrodynamic simulations of a combined hydrogen, helium thermonuclear runaway on a 10 km neutron star
[DE83-012658] 03 p0483 N84-13047
Nuclear physics problems for accreting neutron stars
[DE83-017297] 04 p0620 N84-14092
Do pions condense in neutron-star matter?
[DE84-000463] 04 p0620 N84-14093
Theoretical calculation of rapid X-ray transients and radius expansion
[DE84-001312] 06 p0941 N84-16114
Gamma-burst emission from neutron-star accretion
[NASA-TM-85436] 07 p1094 N84-17112
Joint timing analysis of A0535 + 26 at 1980 outburst
[DE84-001320] 07 p1094 N84-17113
Secular stability of rotating stars
[DE84-014011] 23 p3839 N84-34353

NEUTRON TRANSMUTATION
U NUCLEAR REACTIONS

NEUTRONS
NT FAST NEUTRONS
NT THERMAL NEUTRONS
Accuracy of external personnel dosimetry systems in mixed neutron and gamma radiation fields
[DE83-015712] 02 p0266 N84-11751
Single event upset phenomena from high energy neutrons
[AD-A131287] 02 p0292 N84-11914
Effect of phosphorus on the swelling and precipitation behavior of austenitic stainless steels during irradiation
[DE84-000412] 04 p0499 N84-13275
Bioassay, isolation and studies on the mechanism of action of neurite extension factor 09 p1359 N84-18881
Neutrons and gamma rays from solar flares 09 p1406 N84-19187
Discrete elements method of neutral particle transport
[AD-A138060] 12 p1902 N84-22384
Analysis of a fully discrete scheme for the neutron transport in cylindrical geometry
[CTH-MATH-1984-1] 13 p2041 N84-23246
Environment-independent homogenized parameters for neutron diffusion in non-symmetric slabs
[CISE-2117] 16 p2555 N84-26392
Physical models and numerical methods of the reactor dynamic computer program RETRAN
[OEFZS-4272] 18 p2931 N84-28587
Action of penetrating radiation on radio parts
[AD-A142107] 19 p3007 N84-29059
New technique to improve the accuracy of albedo neutron dosimeter evaluations
[DE84-002458] 19 p3027 N84-29201
Recent re-measurement of neutron and gamma-ray spectra 1080 meters from the APRD (Army Pulse Radiation Division) critical facility
[AD-A141791] 19 p3124 N84-29846

NEVADA
A preliminary analysis of precipitation in southern Nevada
[DE83-016648] 02 p0256 N84-11678
Compilation of selected faults and lineaments that may be relevant to a study of seismic activity in southern Nevada and part of adjacent California
[DE83-017085] 03 p0409 N84-12673
Geology of faults exposed in trenches in Crater Flat, Nye County, Nevada
[DE84-000181] 04 p0564 N84-13716
Nevada test site seismic-telemetry measurements
[DE84-000447] 04 p0564 N84-13719
Principal facts for gravity stations in the Nevada portion of the Kingman 1 degree by 2 degree quadrangle
[PB84-103084] 08 p1189 N84-17749
Water resources data for Nevada, water year 1982
[PB84-120385] 09 p1340 N84-18755
Aeromagnetic map of Yucca Mountain and surrounding regions, southwest Nevada
[DE84-003920] 10 p1526 N84-19995
Riparian habitat on the Humboldt River, Deeth to Elko, Nevada
[E84-10116] 14 p2167 N84-23976
Chemical evolution of a high-level magma system: The Black Mountain Volcanic Center, Southern Nevada
[DE84-013321] 20 p3243 N84-30587
Vegetation and climates of the last 45,000 years in the vicinity of the Nevada Test Site, south-central Nevada
[DE84-009032] 20 p3247 N84-30610
The petrology and geochemistry of the Yerington Batholith and the Ann-Mason Porphyry Copper Deposit, Western Nevada 21 p3441 N84-31828
Geochemistry, age and strontium composition of late tertiary and quaternary basalts and andesites in western Nevada and their relation to geothermal potential
[DE84-012404] 21 p3444 N84-31852
The Hall (Nevada moly) molybdenum deposit, Nye County, Nevada: Geology, alteration, mineralization and geochemical dispersion 23 p3795 N84-34062
Interpretations of magnetic anomalies at a potential repository site located in the Yucca Mountain area, Nevada test site
[DE84-013723] 23 p3798 N84-34085
Crustal shear velocity modelling in Nevada: A study of broadband multi-mode surface waves 24 p3918 N84-34802

NEW ENGLAND (US)
Investigation of forestry resources and other remote sensing data. 1: LANDSAT. 2: Remote sensing of volcanic emissions
[E84-10092] 10 p1522 N84-19963
NEW GUINEA (ISLAND)
Overseas programs 19 p3038 N84-29272
Tertiary foraminifera and age of sediments, Ok Tedi-Wabag, Papua New Guinea
[BMR-BULL-216] 23 p3797 N84-34078
NEW HAMPSHIRE
Stratigraphic, geochemical, and petrologic studies of the Ammonoosuc volcanics, northcentral Massachusetts and southwestern New Hampshire 13 p2013 N84-23059
NEW JERSEY
McGuire AFB, New Jersey. Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F
[AD-A134199] 07 p1036 N84-16724
Water resources data for New Jersey, water year 1982. Volume 2: Delaware River Basin and tributaries to Delaware Bay
[PB84-119734] 09 p1338 N84-18737
NEW MEXICO
Forest area and timber resource statistcs for state and private lands in New Mexico, 1980, Forest Service resource bulletin
[PB83-251157] 04 p0556 N84-13867
White Sands Missile Range, New Mexico Range reference atmosphere 0-70 km altitude
[AD-A132471] 04 p0567 N84-13738
State-coupled low temperature geothermal resource assessment program, Fiscal Year 1982
[DE84-002640] 10 p1526 N84-19997
A regression model for the temporal development of soil pipes and associated gullies in the alluvial-fill valley of the Rio Puerco, central New Mexico
13 p2064 N84-23502
In-flight absolute radiometric calibration of the Thematic Mapper 20 p3208 N84-30383
NEW YORK
A study of air-pollution mixing heights and atmospheric turbulence over New York City, data report
[DE83-010624] 02 p0244 N84-11596
Microseismic monitoring for evidence of geothermal heat in the capital district of New York
[PB83-248807] 04 p0556 N84-13659
Water resources data for New York, water year 1982. Volume 2: Long Island
[PB84-119536] 09 p1339 N84-18742
Water resources data for New York, water year 1982. Volume 1: Eastern New York excluding Long Island
[PB84-114198] 09 p1339 N84-18744
Water resources data for New York, water year 1982. Volume 3: Western New York
[PB84-119544] 10 p1527 N84-20003
Great Lakes coastal geology: Stratigraphy and bluff recession along the Lake Erie coast, New York
[PB84-128933] 10 p1538 N84-20075
Deformation of the subsurface silurian and devonian rocks of the southern tier of New York State
23 p3795 N84-34067
NEW ZEALAND
Planned marine geophysical geological surveys of the Wilkes Land and Ross Sea margins
14 p2160 N84-23939
Sedimentology of the Horlick Formation (Lower Devonians), Ohio Range, Transantarctic Mountains
14 p2162 N84-23948
Oligocene and Miocene larger foraminiferida from Australia and New Zealand
[BMR-BULL-188] 23 p3797 N84-34077
NEWTON
An approximate Newton method for coupled nonlinear systems
[AD-A139589] 14 p2214 N84-24300
NEWTON SECOND LAW
Milgrom's revision of cosmic dynamics: Amending Newton's laws or Keplers?
[NASA-TM-86049] 06 p1244 N84-18132
NEWTON THEORY
Fully-coupled solution of pressure-linked fluid flow equations
[DE83-017989] 04 p0536 N84-13527
Steady viscous flow past a circular cylinder
10 p1560 N84-20223
Hypersonic Aerothermodynamics
[VKI-LS-1984-01] 16 p2440 N84-25656
Hypersonic static and dynamic stability. Part 1: Equations of motion and flight dynamics
16 p2441 N84-25663
Hypersonic static and dynamic stability. Part 2: Inviscid prediction methods for unsteady hypersonic flow
16 p2442 N84-25664
Internal iteration methods 16 p2541 N84-26308
Flow properties of concentrated suspensions
[NASA-TM-77431] 19 p3021 N84-29154
NEWTON-RAPHSON METHOD
A theoretical analysis of the aerodynamic and structural forces associated with a ribbon parachute canopy in steady descent 16 p2443 N84-25671
Internal iteration methods 16 p2541 N84-26308
Large deflections of circular isotropic membranes subjected to arbitrary axisymmetric loading
[NASA-TM-86271] 21 p3419 N84-31686
Self-adaptive solution strategies
21 p3420 N84-31693
Multipoint method for sample temperature measurement in a mirror furnace
[TS-14-83] 23 p3752 N84-33789
Extension of constrained incremental Newton Raphson methodologies to handling generalized thermomechanical loading fields 23 p3760 N84-33829
NEWTONIAN FLUIDS
Some remarks on the creeping flow of the second grade fluid
[AD-A132606] 05 p0681 N84-14473
Shearing deformation of simple materials
11 p1666 N84-20872
Measurements of elongational viscometry using a fiber spinning technique. Part 1: Modifications to the Sangamo Schlumberger elongational viscometer model E4
[AD-A140002] 15 p2333 N84-25010
Elastohydrodynamic lubrication. Status of understanding 15 p2340 N84-25048
Lubricant rheology in concentrated contacts
15 p2341 N84-25050
Effective viscosity of a periodic suspension
[AD-A140483] 16 p2493 N84-25995
Continuum theory for fiber suspensions
[DE84-012258] 21 p3402 N84-31584
NICKEL
Nickel diffusion along single inter-phase boundaries
[BLL-M-35109-(5828.4)] 01 p0040 N84-10254
The cathodic polarization of nickel during precipitation from pure solutions without additions
[BLL-OA-TRANS-3003-(6196.3)]
01 p0043 N84-10276
Updated process flowsheets for manganese nodule processing
[PB83-226340] 01 p0047 N84-10303
Microstructure and properties of TiB2 implanted with 1-MeV nickel
[DE83-014020] 01 p0154 N84-11012
Charge characteristics of Ni/Fe traction cells
[DE83-014205] 03 p0367 N84-12389
Non-uniformity of elastic micro-deformations in austenitic steels
[BLL-M-35357-(5828.4)] 04 p0497 N84-13261
Dislocation/obstacle interactions during low-dose irradiation creep of nickel
[DE84-001416] 04 p0504 N84-13303
Mobility of organic complexes of nickel and cobalt in soils
[DE83-017897] 04 p0564 N84-13720
The structure and behavior of vacuum plasma sprayed overlay coatings on nickel based superalloys
[AD-A132631] 05 p0654 N84-14301
Chemical modification of chemisorptive and catalytic properties of nickel
[DE84-002046] 05 p0655 N84-14308
Interactions of vibrationally excited molecules with solid surfaces
[AD-A133449] 06 p0915 N84-15950
Discharge kinetics of the nickel electrode
[AD-A134389] 07 p0970 N84-16283
Correlations between surface structure and catalytic reactivity for alkane hydrogenolysis over nickel
[DE84-002610] 07 p0971 N84-16292
Synthesis and characterization of binuclear Schiff base complexes of nickel, copper, and manganese
[AD-A135493] 08 p1132 N84-17360
Effect of specimen size and nickel content on the impact properties of 12 Cr-1 MoVW ferritic steel
[DE84-003270] 08 p1134 N84-17377
The definition of the process of electrochemical impregnation of nickel electrodes
[NASA-TM-77356] 09 p1277 N84-18338
Scattering distribution characteristics of rare gases reflected from metal surface with absorbed gas molecules
[NAL-TR-761] 09 p1394 N84-19101
A study of the solidification parameters influencing structures and properties in MAR-M246(Hf)
[NASA-TM-82569] 11 p1633 N84-20675
Wire tensile testing for radiation hardening experiments
[DE84-005884] 11 p1634 N84-20684
On the mechanical and thermoelectric behavior of composition modulated foils 11 p1666 N84-20870
A multi-element study of ISUA iron-formation, W-Greenland 11 p1680 N84-20961
Theoretical studies of metal clusters and of chemisorption on metals
[AD-A138175] 12 p1791 N84-21683
Ion plating of coatings made from high melting point metals
[BLL-RISLEY-TRANS-4879] 12 p1796 N84-21715
Friction and wear of nickel in sulfuric acid
[NASA-TP-2290] 12 p1797 N84-21721
Method of making a light weight battery plaque
[NASA-CASE-LEW-13349-1] 13 p1960 N84-22734
Bimetal and multimetal galvanic corrosion prediction using long- and short-term polarization curves
[AD-A139693] 15 p2297 N84-24786
Influence of container interactions on the vaporization thermodynamics of nickel
[MRL-R-864] 17 p2622 N84-26784
Coating of self-catalytic nickel on aluminum and aluminum alloys
[AD-A140697] 17 p2623 N84-26791
Band structure effects in the electronic properties of solids assessible in neutron scattering studies
[DE84-008557] 18 p2941 N84-28654
Metal dissolution kinetics in halide melts
[DE84-004030] 19 p2995 N84-28977
Ductile-brittle transition temperature measurement of temper embrittled Ni-Cr steels by means of small punch tests
[DE84-012833] 20 p3158 N84-30054
Development of a lightweight nickel electrode
[NASA-TM-86861] 20 p3234 N84-30528
Vibrational spectra of CO on Ni(100) studied by infrared emission spectroscopy
[DE84-009246] 21 p3362 N84-31327
Overlay coating degradation by simultaneous oxidation and coating/substrate interdiffusion
[NASA-TM-83736] 21 p3365 N84-31344
Automatic digital battery cell capacitance measurements
[AD-A143143] 21 p3392 N84-31523
Crack kinetics of the nickel-hydrogen system
21 p3416 N84-31665
Response of Inconel 617 superalloy to combined ground-based and STS reentry exposure
[NASA-TM-86293] 22 p3554 N84-32505
Effect of stress concentration on fatigue resistance of heat-resistant nickel alloys 23 p3707 N84-33503
Low cycle fatigue behavior of conventionally cast MAR-M 200 AT 1000 deg C
[NASA-TM-83789] 23 p3717 N84-33564
Highly porous powder-fiber composite materials
24 p3872 N84-34538
NICKEL ALLOYS
NT ASTROLOY (TRADEMARK)
NT INCONEL (TRADEMARK)
NT MONEL (TRADEMARK)
NT NITINOL ALLOYS
NT RENE 95
NT UDIMET ALLOYS
NT WASPALOY
Thermodynamic activity of carbon in solid nickel
[BLL-M-35192-(5828.4)] 01 p0040 N84-10258
Low strain, long life creep fatigue of AF2-1DA and INCO 718
[NASA-CR-167989] 01 p0042 N84-10268
Changes in acoustic emission peaks in precipitation strenghtened alloys with heat tretment
[DE83-013611] 01 p0045 N84-10289
Magnetic susceptibility of Fe-B, Fe - P and Ni - P alloys
[BLL-M-35126-(5828.4)] 01 p0138 N84-10902
Fundamental research directed to advanced high temperature coating systems beyond the current state-of-the-art systems
[AD-A131618] 02 p0194 N84-11261
The yield stress and strain-rate sensitivity of nickel over a wide temperature range
[DE83-016913] 02 p0197 N84-11279
Corrosion-resistant behavior of amorphous and crystallized Fe-Ni-Cr-W alloys
[DE83-016815] 02 p0197 N84-11280
Corrosion behavior of Fe-Cr-Ni-Zr alloys in aggressive environments at high temperatures
[DE83-014735] 03 p0353 N84-12297
Formation of surface layers during oxidation of a Fe-Mn-Si alloy
[DE83-009495] 03 p0354 N84-12302
Replacing critical and strategic refractory metal elements in nickel-base superalloys — NASA's COSAM program
[NASA-TM-83528] 04 p0498 N84-13264
Effect of implanted helium on the microstructure and creep properties of ordered (FeO.49 NiO.51) V-3 alloys
[DE84-000691] 04 p0500 N84-13278
Wear during rubbing of a sintered metal powder body
[AD-A132354] 04 p0544 N84-13584

Comparison of measured and calculated helium production in nickel using newly evaluated neutron cross sections for (59)Ni
[DE84-000565] 04 p0611 N84-14035
Magnetic properties of Mo/Ni superlattices
[DE84-000568] 04 p0614 N84-14053
Pulsed electrodeposition of amorphous and composite alloys
[AD-A132848] 05 p0646 N84-14246
Effects of cobalt in nickel-base superalloys
[NASA-CR-166308] 05 p0652 N84-14287
Solidification rate influence on orientation and mechanical properties of MAR-M-246+Hf
[NASA-TM-82558] 05 p0653 N84-14290
Constitutive equations for the creep behavior of nickel-base alloys for High Temperature Reactor (HTR) components in the temperature range 1023-1273 K
[JUEL-1843] 05 p0657 N84-14318
Carbide precipitation in nickel-base model alloys and its influence on ductility and fracture behavior at room temperature
[JUEL-1845] 05 p0657 N84-14319
Influence of alloying on the properties of nickel in the solid and liquid states
[BLL-M-35284-(5828.4)] 06 p0803 N84-15232
Low-cost single-crystal turbine blades, volume 1
[NASA-CR-168218] 06 p0805 N84-15247
Elevated temperature low cycle fatigue of nickel base superalloys in the conventionally cast, directionally solidified and single crystal forms
[AD-A133598] 06 p0806 N84-15253
Application of induction coil measurements to the study of superalloy hot corrosion and oxidation
[NASA-TM-83560] 07 p0974 N84-16311
Amorphous zirconium-nickel films formed by solid state reactions
[DE84-003570] 07 p0976 N84-16326
Friction and morphology of magnetic tapes in sliding contact with nickel-zinc ferrite
[NASA-TP-2267] 07 p0977 N84-16334
Factors which influence directional coarsening of Gamma prime during creep in nickel-base superalloy single crystals
[NASA-TM-83595] 08 p1131 N84-17353
Influence of cobalt, tantalum and tungsten on the high temperature mechanical properties of single crystal nickel-base superalloys
[NASA-TM-83479] 08 p1131 N84-17355
On the effect of fine grain size on the M sub s temperature in Fe-27Ni-0.025C alloys
[AD-A134807] 08 p1133 N84-17366
Study of ion bombardment-induced subsurface compositional modifications in Ni-Cu alloys at elevated temperatures by ion scattering spectroscopy
[DE84-003632] 08 p1135 N84-17380
Muon spin rotation in solids
[NASA-CR-172789] 08 p1234 N84-18067
Analysis of thermoelectric properties of high-temperature complex alloys of nickel-base, iron-base and cobalt-base groups
[NASA-TP-2278] 09 p1281 N84-18370
Studies on age-hardening in spinodally modulated alloys: Experimental and theoretical
[DE84-004650] 09 p1285 N84-18390
Corrosion behavior of Ni(+)-ion irradiated NiTi alloys
[DE84-003891] 09 p1285 N84-18392
Water-vapor effects on friction of magnetic tape in contact with nickel-zinc ferrite
[NASA-TP-2279] 09 p1286 N84-18399
Effect of temperature on some of the mechanical properties of Cu-10Ni-6Sn spinodal alloy
[DE84-004432] 10 p1461 N84-19538
Pre-transition phenomena in an iron-nickel alloy prior to the Martensite transformation
11 p1632 N84-20668
The development of wrought heat-resisting alloys for gas turbines
[CSIR-ME-1778] 11 p1632 N84-20669
Mechanism of corrosion of Ni base superalloys by molten Na2MoO4 at elevated temperatures
[NASA-TM-83580] 11 p1632 N84-20672
Literature survey on oxidations and fatigue lives at elevated temperatures
[NASA-CR-174639] 11 p1633 N84-20674
TEM studies on the deformation structure of Cu-10Ni-6Sn spinodal alloy
[DE84-004426] 11 p1635 N84-20690
Experimental study of powder production process using centrifugal atomization 12 p1785 N84-21644
Interrelationship between temperature intervals of inverse martensite transformation and shape restoration in titanium nickelide-based alloys
12 p1786 N84-21648
Martensite transformation and shape memory in Ti0.5Ni0.5-xPd sub x system alloys
12 p1786 N84-21649
Superfine wire made from new alloy
12 p1787 N84-21657
The ductility of metal diffusion coatings on nickel alloys and their characterization
[BLL-RISLEY-TRANS-4863] 12 p1795 N84-21706
High-temperature oxidation of alpha nickel-silicon. 1: Reaction kinetics; thermogravimetry
[MRL-R-887] 12 p1796 N84-21717
Cyclic deformation and fatigue of monocrystalline Ni-base superalloys
[AD-A138052] 12 p1797 N84-21724
The future for titanium and superalloys — in aircraft engines
[PNR-90175] 13 p1961 N84-22742
A study of fatigue crack propagation in powder metallurgy hot isostatically pressed nickel-base alloy
[AD-A139290] 14 p2127 N84-23754
Ion-induced surface modification of alloys
[DE84-006664] 14 p2243 N84-24468
Some aspects of creep in nickel-base super alloys
[NPL-DMA(A)-72] 15 p2294 N84-24769
Journal of aeronautical materials (selected articles)
[AD-A140167] 16 p2434 N84-25610
Evolution of the phonon spectrum and the density of states at the Fermi level near the martensitic transformation in NiAl, Ti(NiCo), CuZnAl and InTl alloys
[ESA-TT-787] 16 p2465 N84-25801
The nicrosil versus nisil type N thermocouple: A commercial reality
[MRL-R-903] 16 p2495 N84-26005
Effects of alloy composition on cyclic flame hot-corrosion attack of cast nickel-base superalloys at 900 deg C
[NASA-TP-2338] 17 p2622 N84-26783
Study of the influence of metallurgical factors on fatigue and fracture of aerospace structural materials
[AD-A140659] 17 p2623 N84-26789
Modeling degradation and failure of Ni-Cr-Al overlay coatings
[NASA-TM-83672] 18 p2813 N84-27858
Experimental and theoretical studies of creep crack growth
[AD-A141193] 18 p2814 N84-27862
Chemical mechanisms and reaction rates for the initiation of hot corrosion of IN-738
[NASA-TP-2319] 19 p2992 N84-28958
Failure by creep cracking and creep fatigue interaction in nickel base superalloys
[AD-A141112] 19 p2993 N84-28967
A fundamental study of P/M processed elevated temperature aluminum alloys
[AD-A141780] 19 p2994 N84-28974
Effect of refractory elements on the coherency strain and flow stress on nickel-base superalloys
[AD-A142220] 19 p2994 N84-28975
Study of high performance alloy electroforming
[NASA-CR-173828] 20 p3152 N84-30013
Sulfur and antimony segregation to creep cavity surfaces in Ni and an FCC Fe-Ni-Cr alloy
[DE84-011458] 20 p3154 N84-30028
Improved oxidation sulfidation resistance of Fe-Cr-Ni alloys
[DE84-010066] 20 p3156 N84-30039
Oxidation-sulfidation behavior of Fe-Cr-Ni alloys containing additions of Zr, Nb, or Ti
[DE84-005411] 20 p3156 N84-30043
Creep-fatigue and temperature synergisms in alloy 800
[DE84-010131] 20 p3157 N84-30046
Evolution of cavity microstructure in ion-irradiated 316 SS and Fe-20Ni-15Cr alloy
[DE84-012111] 20 p3158 N84-30053
High temperature X-ray decomposition studies of alpha phase nickel-silicon and beta phase copper-aluminum-nickel alloys 21 p3364 N84-31338
Phase transformations in nearly stoichiometric nickel-manganese alloys 21 p3364 N84-31340
High-temperature cyclic oxidation data, volume 1
[NASA-TM-83665] 21 p3365 N84-31345
Development of improved low-strain creep strength in Cabot alloy R-41 sheet — nickel base sheet alloy for reentry shielding
[NASA-CR-172392] 21 p3365 N84-31346
Study of high performance alloy electroforming — nickel manganese and nickel cobalt manganese alloys
[NASA-CR-173865] 21 p3366 N84-31350
Environment and fracture
[DE84-011454] 21 p3367 N84-31360
A combined thermodynamic study of nickel-base alloys
[DE84-013467] 21 p3368 N84-31368
Fundamental alloy studies
[DE84-013941] 22 p3555 N84-32513
Role of grain size on the brittle to ductile transition of the strongly ordered alloy Ni3Al
[DE84-014804] 22 p3556 N84-32519
Understanding the roles of the strategic elements cobalt in nickel base superalloys 23 p3703 N84-33471
Problems presented to engine builders by the recycling of metallic materials — titanium and nickel alloys for aircraft engine parts 23 p3704 N84-33482
Using recycled superalloys in precision casting
23 p3705 N84-33486
Trace elements and residual elements in superalloys
23 p3705 N84-33487
Influence of cobalt, tantalum and tungsten on the high temperature mechanical properties of single crystal nickel-base superalloys 23 p3716 N84-33558
Study of high performance alloy electroforming
[NASA-CR-173979] 23 p3717 N84-33565
Ductile aluminide alloys for high temperature applications
[DE84-014317] 23 p3719 N84-33575
Attachment for an X-ray diffractometer for studying transformations in materials 24 p3868 N84-34513
Effect of stretch rate on texture and mechanical properties of nickel-cobalt alloys
24 p3869 N84-34521
Carbide phases in high-temperature nickel-hafnium alloys 24 p3871 N84-34532
Generation of reactive stresses in TiNi alloy
24 p3875 N84-34556
Influence of boundary volume structure on grain boundary relaxation of cast heat resistant nickel alloys
24 p3877 N84-34569
Influence of nitrogen-hydrogen-containing media on heat resistance properties of nickel-based alloys
24 p3877 N84-34570
Solidification study of some Ni- and Co-base alloys
24 p3882 N84-34596
Directional solidification of Al2-Cu-Al and Al3-Ni-Al eutectics during TEXUS rocket flight
[NASA-TM-77552] 24 p3883 N84-34602
Investigation of rapidly solidified Ni3Al-based alloys
[AD-A144174] 24 p3883 N84-34604

NICKEL CADMIUM BATTERIES

Long life communication satellites: Electric power supply during the eclipse period
[NASA-TM-77351] 07 p0965 N84-16253
Development of a modular battery
[BMFT-FB-W-83-021] 08 p1153 N84-17504
Evaluation program for secondary spacecraft cells. Initial evaluation tests of General Electric Company 4.0 ampere-hour nickel-cadmium spacecraft cells for the AMPTE satellite program
[NASA-CR-173357] 09 p1341 N84-18758
Qualification evaluation tests of 20.0 ampere-hour sealed nickel-cadmium cells
[NASA-CR-173358] 09 p1341 N84-18759
Nickel cadmium cell SD 15 K, qualification and operation of a modularized battery 50 Ah, 100 v
[BMFT-FB-W-83-030] 10 p1488 N84-19728
Technique for manufacturing nickel electrodes
[NASA-TM-77239] 11 p1632 N84-20671
A 37.5-kW point design comparison of the nickel-cadmium battery, bipolar nickel-hydrogen battery, and regenerative hydrogen-oxygen fuel cell energy storage subsystems for low Earth orbit
[NASA-TM-83651] 13 p2008 N84-23022
Rapid electrolyte exchange procedures for 22 AH nickel-cadmium celgard cells
[AD-A142004] 20 p3177 N84-30178
Characterization of physiochemical properties of polymeric and electrochemical materials for aerospace flight
[NASA-CR-175258] 22 p3558 N84-32534
Separator qualification for aerospace nickel-cadmium cells 23 p3737 N84-33682
Electrochemically deposited cadmium electrode for sealed Ni-Cd cells 23 p3737 N84-33683
Second plateau voltage in nickel-cadmium cells
23 p3737 N84-33684
Prediction of battery life and behavior from analysis of voltage data 23 p3737 N84-33685
Prediction model for the life of nickel-cadmium batteries in geosynchronous orbit satellites
23 p3737 N84-33686
Ni-Cd battery life expectancy in geosynchronous orbit
23 p3738 N84-33687
Nickel cadmium charge control concepts — ampte cram 23 p3738 N84-33688
Deep reconditioning testing for near Earth orbits
23 p3738 N84-33689
In flight performance of a six ampere-hour nickel-cadmium battery in low Earth orbit
23 p3738 N84-33690
RCA SATCOM battery in orbit performance update and accelerated life test results 23 p3738 N84-33691
Performance of the IUE spacecraft batteries after 70 months 23 p3738 N84-33692
Management and performance of APPLE battery in high temperature environment 23 p3738 N84-33693

Comparison of standard and heart-pacer type 3rd electrodes in design variable cells
23 p3736 N84-33694
Comparative performance assessment of INTELSAT 5 nickel hydrogen and nickel cadmium batteries
23 p3740 N84-33704

NICKEL COATINGS
Development of improved LACV-30 propeller blade coatings for protection against sand and rain erosion and marine environment corrosion
[AD-A132999] 18 p2821 N84-27914
Adhesion between polymers and evaporated gold and nickel films
[NASA-TP-2360] 21 p3369 N84-31379
Solid-phase reaction of dispersed graphitized material with aluminium and nickel
[BLL-M-35633-(5828.4)] 22 p3551 N84-32482

NICKEL COMPOUNDS
NT NICKEL OXIDES
Platinum-group metals
[PB83-239152] 02 p0198 N84-11291
Secondary ion emission from adsorbate layers on polycrystalline Ni 06 p0815 N84-15306
Technique for manufacturing nickel electrodes
[NASA-TM-77239] 11 p1632 N84-20871
Electrochemical performance of porous nickel sulfide electrodes
[DE84-009586] 22 p3590 N84-32741
Research on oxidation by air and tempering of Raney nickel electrocatalysts for the H2 anodes of alkali combustion materials cells
[NASA-TM-77414] 23 p3713 N84-33535
Interfacial reactions of nickel and cobalt thin films on silicon 24 p3959 N84-35084

NICKEL HYDROGEN BATTERIES
Analysis of regenerative fuel cells
[NASA-CR-171783] 04 p0557 N84-13671
Thermal control of multimission battery compartment of SPOT 10 p1445 N84-19440
Evaluation of nickel-hydrogen battery for space application
[NASA-TM-77355] 10 p1528 N84-20012
Separator development and testing of nickel-hydrogen cells
[NASA-TM-83653] 13 p1955 N84-22712
Advanced nickel-hydrogen cell configuration study
[NASA-CR-173417] 13 p1965 N84-22889
A 37.5-kW point design comparison of the nickel-cadmium battery, bipolar nickel-hydrogen battery, and regenerative hydrogen-oxygen fuel cell energy storage subsystems for low Earth orbit
[NASA-TM-83651] 13 p2008 N84-23022
Design of a 1-kWh bipolar nickel hydrogen battery
[NASA-TM-83647] 13 p2008 N84-23024
Advanced designs for IPV nickel-hydrogen cells
[NASA-TM-83643] 13 p2008 N84-23025
Teardown analysis of a ten cell bipolar nickel-hydrogen battery
[NASA-TM-83618] 13 p2008 N84-23026
Oxygen recombination in individual pressure vessel nickel-hydrogen batteries
[NASA-CASE-LEW-13822-1] 19 p3011 N84-29084
Long life nickel electrodes for a nickel-hydrogen cell: Cycle life tests 23 p3739 N84-33698
Factors affecting nickel-oxide electrode capacity in nickel-hydrogen cells 23 p3739 N84-33699
Positive electrode fabrication for bi-polar Ni-H2 cells
23 p3739 N84-33700
Bipolar nickel-hydrogen batteries for aerospace applications 23 p3739 N84-33701
Test results of a ten cell bipolar nickel-hydrogen battery 23 p3739 N84-33702
Failure analysis of nickel-hydrogen cell subjected to simulated low Earth orbit cycling
23 p3740 N84-33703
Comparative performance assessment of INTELSAT 5 nickel hydrogen and nickel cadmium batteries
23 p3740 N84-33704

NICKEL IRON BATTERIES
Research, development and demonstration of nickel-iron batteries for electric-vehicle propulsion
[DE83-015755] 01 p0073 N84-10479
Research, development and demonstration of nickel-iron batteries for electric-vehicle propulsion
[DE83-014270] 02 p0304 N84-11994
Comparative response of lead-acid and nickel-iron batteries to pulsed and constant-current loads
[DE83-017939] 03 p0368 N84-12395
Ragone characteristics of aqueous mobile batteries and their application in projecting ranges of electric vehicles
[DE83-014701] 03 p0404 N84-12642
Application features and considerations in advanced lead-acid and nickel/iron EV batteries
[DE83-017936] 04 p0528 N84-13472
Impact of monoblock design and battery packaging on temperature excursion of nickel/iron batteries
[DE84-006444] 12 p1813 N84-21821
Study of bipolar batteries
[DE84-013193] 21 p3394 N84-31540
Nickel-iron battery system safety
[NASA-CR-173962] 23 p3744 N84-33733

NICKEL OXIDES
Comparison of the calculated properties of high-angle (001) twist boundaries in MnO, FeO, CoO and NiO with MgO
[DE83-015677] 02 p0201 N84-11307
Solubility of the NiO fuel-cell cathode in Li2CO3 melts as determined by cyclic voltammetry
[DE83-014311] 04 p0530 N84-13485
Protective oxide films
[DE84-004088] 10 p1461 N84-19543
Role of Schottky disorder on the stability and structure of (100) twist grain boundaries in NiO
[DE84-008447] 14 p2243 N84-24469
Surface chemistry of NiO (100)
[AD-A140233] 16 p2463 N84-25785
Point defects and diffusion mechanisms in the monoxides of the iron-group metals
[DE84-012105] 21 p3505 N84-32210
Factors affecting nickel-oxide electrode capacity in nickel-hydrogen cells 23 p3739 N84-33699

NICKEL PLATE
Development of improved LACV-30 propeller blade coatings for protection against sand and rain erosion and marine environment corrosion
[AD-A132999] 18 p2821 N84-27914
Aspects of electroless nickel plating on molybdenum
[DE84-006434] 20 p3158 N84-30057

NICKEL STEELS
The nature of quasicleavage fracture in tempered 5.5 ni steel after hydrogen charging
[AD-A133460] 06 p0806 N84-15252
Extended experimental and theoretical investigations to quantify ductile fracture behavior, using MnMoNi 55
[MPA-82-01] 09 p1334 N84-18709
Experimental study of behavior of cylindrical shells with lumped masses under dynamic external pressure
17 p2650 N84-26947
Weldability of 2BT-treated 9Ni steel with ferritic filler metal
[DE84-006492] 18 p2815 N84-27869
Torsional and axial hot fatigue characterization of the Z2 NKD 18-8-5 steel (maraging 250): Specimens obtained from a bar. Summary of test number M3 418700
18 p2815 N84-27874
Effect of precipitated austenite on the fracture of a ferritic cryogenic steel
[DE84-014804] 22 p3557 N84-32521

NICKEL ZINC BATTERIES
Diffusion mass transfer of KOH through Ni/Zn battery membrane separators
[DE83-014551] 03 p0367 N84-12387
Ragone characteristics of aqueous mobile batteries and their application in projecting ranges of electric vehicles
[DE83-014701] 03 p0404 N84-12642
Additive for zinc electrodes — electric automobiles
[NASA-CASE-LEW-13286-1] 05 p0673 N84-14422
Rechargeable zinc batteries
[DE84-006947] 20 p3179 N84-30192

NIGHT
Wave characteristics of temperature inversion process of nighttime radiation
[AD-A136499] 09 p1348 N84-18809
Airglow morphology during an ionospheric heating experiment at Platteville, Colorado
[AD-A137869] 11 p1682 N84-20976
Turbulent structure of stably stratified nocturnal slope flows
[AD-A140740] 17 p2734 N84-27378
Night landing of 'Soyuz-23' cosmonauts in Lake Tengiz recounted 19 p2972 N84-28837
Nighttime observations of thunderstorm electrical activity from a high altitude airplane
[NASA-TM-86455] 21 p3405 N84-31597

NIGHT AIRGLOW
U NIGHTGLOW

NIGHT E LAYER
U E REGION
U NIGHT SKY

NIGHT F LAYER
U F REGION
U NIGHT SKY

NIGHT FLIGHTS (AIRCRAFT)
Visual slant misperception and the Black-Hole landing situation
[NASA-TM-85866] 07 p1049 N84-16795
Air force technical objective document fiscal year 1985
[AD-A136724] 10 p1598 N84-20471
Electroluminescent formation lights for HC-130 P/N special operations. 1: Flight test candidates
[AD-A137662] 11 p1606 N84-20616
F-16 and A-10 diffraction optics Head Up Display (HUD) flight test evaluation 24 p3849 N84-34411

NIGHT SKY
Panoramic sky monitor (PANSKY)
[AD-A139440] 14 p2176 N84-24035
Nighttime mesospheric returns associated with a large scale flare event 17 p2686 N84-27103
Nighttime enhancements in the TEC and magnetic storm response of the tropical F-region over Brazil
[INPE-3038-PRE/469] 21 p3442 N84-31839

NIGHT VISION
Preliminary investigation of variation in some dark adaptation aspects for possible relevance to military helicopter aircrew
[AD-A130231] 01 p0113 N84-10733
Evalution of retroreflective pavement markers for precision and nonprecision runways
[FAA-CT-82-164] 02 p0182 N84-11182
Effects of extended use of AN/PVS-5 night vision goggles on helicopter pilots' performance
[AD-A138126] 12 p1868 N84-22173
Parachuting in night conditions
[FOA-C-59010-H1] 18 p2790 N84-27708
Nighttime observations of thunderstorm electrical activity from a high altitude airplane
24 p3926 N84-34853

NIGHTGLOW
The night airglow O2(1-Sigma) atmospheric band at 8645A and the rotational temperature observed at 23 deg S
[INPE-3021-PRE/459] 12 p1846 N84-22034
Vertical and horizontal phase propagation in the mesopause region observed by the OI5577 angstrom, O/sub 2 atmospheric band, NaD and OH(8,3) band nightglow emissions
[INPE-3022-PRE/460] 12 p1846 N84-22035
An explanation of the spectral seasonal variations in the night airglow emissions
[KGI-PREPRINT-066] 18 p2880 N84-28288

NIMBUS SATELLITES
NT NIMBUS 5 SATELLITE
NT NIMBUS 7 SATELLITE
NIMBUS-ERB instrument study
[NASA-CR-165922] 02 p0222 N84-11459
Comparison of satellite and in situ data
12 p1835 N84-21961

NIMBUS 5 SATELLITE
A comparison of numerical results of Arctic Sea ice modeling with satellite images 14 p2165 N84-23969
Aspects of the Brazil current system according to SMS-2, NOAA-6, and Tiros-N satellites for 1979 to 1980
[INPE-2975-RPE/450] 22 p3827 N84-32982

NIMBUS 7 SATELLITE
Report of the first Nimbus-7 SMMR Experiment Team Workshop
[NASA-TM-85093] 02 p0257 N84-11684
Satellite-Derived Sea Surface Temperature: Workshop 1
[NASA-CR-173450] 12 p1834 N84-21955
Satellite data 12 p1835 N84-21960
Sea surface temperatures from the Nimbus-7 scanning multichannel microwave radiometer
12 p1835 N84-21963
A statistical method to sense sea surface temperature from the Nimbus-7 scanning multichannel microwave radiometer 12 p1835 N84-21964
Regional correlation between TOMS total ozone from NIMBUS-7 satellite and geopotential height from the GLAS analysis 12 p1851 N84-22056
Development of Great Lakes algorithms for the Nimbus-G coastal zone color scanner
[NASA-CR-173511] 17 p2711 N84-27258
Observing atmospheric water in storms with the Nimbus 7 scanning multichannel microwave radiometer
17 p2716 N84-27291
Status of solar measurements and data reduction for ERB-Nimbus 7 17 p2778 N84-27637
NIMBUS 7 Earth Radiation Budget (ERB) matrix user's guide. Volume 2: Tape specifications
[NASA-CR-170620] 21 p3464 N84-31961
Observation of variations in the composition of sea ice in the Greenland MIZ during early summer 1983 with the Nimbus-7 SMMR — Marginal Ice Zone (MIZ); Scanning Multichannel Microwave radiometer (SMMR)
23 p3773 N84-33916
Seasonal ice variation in the Barents Sea obtained from the Nimbus 7 Scanning Multichannel Microwave Radiometer (SMMR) observations
23 p3773 N84-33919
The distribution of ice concentration, multiyear and first year fraction in the Arctic Ocean derived from the Nimbus 7 Scanning Multichannel Microwave Radiometer (SMMR) observations 23 p3773 N84-33920

Evaluation of wind estimates over open ocean from the Nimbus 7 scanning multichannel microwave radiometer
23 p3773 N84-33921

NIMONIC ALLOYS
Ring ductility of irradiated Inconel 706 and Nimonic PE16
[DE84-010397] 20 p3155 N84-30034

NIMPHE (ENGINE)
U HYDRAZINE ENGINES

NIMROD ACCELERATOR
Flight test techniques employed in the Nimrod MR MK 2 weapon system performance trials
24 p3849 N84-34410

NIOBATES
NT LITHIUM NIOBATES

NIOBIUM
Metallurgical characterization of Niobium/Tin superconducting multifilamentary wires
[AD-A131018] 01 p0044 N84-10281
Effect of point defects on mechanical properties of metals
[DE83-014989] 01 p0046 N84-10297
Transient high-field behavior of niobium superconducting cavities
[DE83-011852] 01 p0068 N84-10443
Development of modified 9 Cr-1 Mo steel
[DE83-003450] 02 p0194 N84-11282
The effect of the structure of metallo-organic complexes on the electrolytic precipitation of titanium and niobium from nonaqueous electrolytes
[BLL-OA-TRANS-3070-(6196.3)]
04 p0497 N84-13259
Superconducting niobium thin film slow-wave structures 04 p0518 N84-13405
Radiation hardening of oxygen-doped niobium by 14-MeV neutrons
[DE84-000103] 04 p0610 N84-14026
Wire tensile testing for radiation hardening experiments
[DE84-005884] 11 p1634 N84-20684
Study on the effects of niobium, vanadium, titanium and/or rare Earth metals on the properties and processing of high-tensile, weldable structural steels
[BMFT-FB-T-83-318] 15 p2295 N84-24775
On the structure of the uranium-niobium-chromium-system
[BLL-TRANS-1104-(7291.7965)]
19 p2991 N84-28954
High-gradient, pulsed operation of superconducting niobium cavities
[DE84-012498] 20 p3311 N84-31030
Far infrared optical properties of WbSe3
[DE84-009223] 21 p3498 N84-32173
Composition and structure of multicomponent vanadium- and niobium-base coatings
[BLL-M-35657-(5828.4)] 22 p3550 N84-32474
Superconducting resonators — niobium
[BMFT-FB-T-84-119] 23 p3831 N84-34303

NIOBIUM ALLOYS
Investigation of microstructural changes in ferritic stainless steels caused by high-temperature deformation
[DE83-015331] 01 p0046 N84-10298
Radiative properties of advanced spacecraft heat shield materials
[NASA-CR-3740] 02 p0193 N84-11258
Degradation of shape memory effect
[DE83-016586] 03 p0353 N84-12295
Spallation and 14-MeV neutron irradiation of stabilized NbTi superconductors
[DE83-017973] 03 p0368 N84-12394
Effect of hydrogen on the mechanical properties of a U5.7Nb alloy
[DE84-006679] 12 p1799 N84-21732
Oxidation-sulfidation behavior of Fe-Cr-Ni alloys containing additions of Zr, Nb, or Ti
[DE84-005411] 20 p3156 N84-30043
Critical current density of bronze-processed multifilimentary Nb-3Sn wires with magnesium addition to the matrix
[DE84-014579] 23 p3719 N84-33576
Superconducting and semiconducting properties of electron-beam evaporated materials
[DE84-013470] 23 p3830 N84-34296
The manufacturing process and the cold deployment test of an extendible nozzle made of C-103 niobium alloy
[AD-A144524] 24 p3884 N84-34606

NITINOL ALLOYS
Passive Sun seeker/tracker and a thermally activated power module 15 p2348 N84-25069
Design, manufacture and tests of a locking and unlocking mechanism, using memory elements (vem); layout, manufacture and testing of a tracking mechanism, using memory elements for locking/unlocking and driving and being suitable for qualification (NFMM) — space flight applications
[BMFT-FB-W-84-012] 19 p3033 N84-29236

NITRAMINE PROPELLANTS
Catalysis of nitramine propellants by mmtal borohydrides
[AD-A133215] 06 p0812 N84-15285
CARS studies of nitramine lova propellant combustion
[AD-A135813] 09 p1280 N84-18357
Nitramine propellant ignition under rapid gas loading conditions 13 p1950 N84-22677
Multiphase flow analysis of the ballistic performance of an anomalous LOVA propellant mix
13 p1950 N84-22679
Nitramine propellant crack tip ignition and crack propagation of a burning sample under rapid pressurization
[AD-A141246] 18 p2811 N84-27848
High performance, low flame temperature nitramine propellant development 20 p3141 N84-29946
Shock-initiated decomposition of nitramines with laser diagnositcs 21 p3372 N84-31401

NITRATE ESTERS
Nitrate ester polyether glycol prepolymers
20 p3142 N84-29947

NITRATES
NT AMMONIUM NITRATES
NT CELLULOSE NITRATE
NT DINITRATES
NT PETN
NT SODIUM NITRATES
Nitrite reduction in paracoccus halodenitrificans: Evidence for the role of a cd-type cytochrome in ammonia formation
[NASA-TM-85883] 10 p1545 N84-20125
Vertical sections of oxygen, phosphate, silicate, nitrate and nitrite from the NORPAX Shuttle Experiment
[PB84-138759] 11 p1692 N84-21036
MMH-nitrate and plume deposits from NTO/MMH engines 13 p1941 N84-22620
Modeling effects of composition on the burn rates of nitrate ester-based energetic binders
13 p1951 N84-22685
Prevention of stress-corrosion cracking in nuclear waste storage tanks
[DE84-001410] 14 p2128 N84-23758
Iron nitrate and MON-3 nitrogen tetroxide
20 p3136 N84-29909

NITRATION
Analysis and synthesis of 1,2,4-butanetriol
[AD-A130875] 01 p0052 N84-10338
Study of nitration and oxidation in oxynitrogen systems
[AD-A132742] 05 p0650 N84-14271
Research in energetic compounds
[AD-A137484] 10 p1454 N84-19497
Nitration of intermetallide TiAl3
12 p1785 N84-21646
Laser Induced Chemistry. 1984 JPM Specialist Session
[AD-A142922] 21 p3372 N84-31400
Laser induced nitrations of some aliphatic hydrocarbon compounds 21 p3373 N84-31404

NITRIC ACID
The detection of pitting corrosion in stainless steel using double-layer activation
[AERE-R-9751] 01 p0047 N84-10304
Electrochemical generation of N2O5
[DE83-013377] 02 p0190 N84-11235
Formation of acid deposition: Atmospheric chemical tranformation and deposition
[REPT-107] 07 p1027 N84-16654
Kinetics and products of the reaction OH + HNO3
13 p2012 N84-23051
Acidification of rain by the oxidation of dissolved SO2 and the absorption of HNO3
[PB84-168368] 15 p2367 N84-25200
Stratospheric concentration of nitric acid, ozone and sulphurous carbonyl: Measurement of nitric acid absorption in the Q branch of the v4 band as a function of temperature
[AD-B071596] 17 p2724 N84-27336
Corrosion resistance of selected ceramic materials to nitric acid
[PB84-178870] 20 p3164 N84-30098
Atmospheric chemistry of H2O2, NO3, HONO, and HNO3: Influence of aqueous phase and heterogeneous processes
[PB84-183680] 20 p3243 N84-30592
Engine wear with methanol fuel in a nitrogen-free environment
[AD-A143530] 22 p3604 N84-32833
The oxidation of hydrazine by nitric acid
[DE84-015063] 23 p3715 N84-33547

NITRIC OXIDE
Proceedings of a Workshop on Assessment of Techniques for Measuring Tropospheric N sub x O sub y
[NASA-CP-2292] 04 p0562 N84-13706
Measured Hugoniot states of a 2-element fluid, O-2 + N sub 2 prime, near 2 Mg/m-3
[DE83-015910] 05 p0662 N84-14349
Fundamental research on explosives
[DE84-001201] 09 p1290 N84-18425
Measurement of NO, NO/sub 2, and HNO/sub 3 using a tunable diode laser system. Phase 2: Modification to permit automated simultaneous multi-species monitoring and feasibility study of extension to H/sub 2O/sub 2, CH/sub 2O and HONO
[PB84-160076] 14 p2151 N84-23890
Coupling between the thermosphere and the stratosphere: The role of nitric oxide
[AERONOMICA-ACTA-A-270-1983]
16 p2520 N84-26175
Measurement of nitric oxide in the equatorial D-region and other relevant parameters
[IWF-8304] 17 p2728 N84-27385
Stratospheric NO and NO2 profiles at sunset from analysis of high-resolution balloon-borne infrared solar absorption spectra obtained at 33 deg N and calculations with a time-dependent photochemical model
[NASA-TM-86285] 20 p3240 N84-30566
Shock-initiated decompcsition of nitramines with laser diagnositcs 21 p3372 N84-31401
Optical stark effect in the 2-photon spectrum of NO
[NASA-TM-85964] 21 p3492 N84-32131

NITRIDES
NT ALUMINUM NITRIDES
NT BORON NITRIDES
NT GALLIUM NITRIDES
NT OXYNITRIDES
NT SILICON NITRIDES
NT TITANIUM NITRIDES
Structure, preparation and properties of refractory compounds and systems (hard materials and hard metals)
[NASA-TM-77076] 07 p0974 N84-16309
CO + H/sub 2 reaction over nitrogen-modified iron catalysts
[DE84-009046] 15 p2288 N84-24727
Synthesis of refractory materials
[DE84-011045] 20 p3156 N84-30041
Synthesis and characterization of superconducting electronic materials
[AD-A144137] 24 p3966 N84-35116

NITRIDING
Nitriding with a pulsed glow discharge
[BLL-OA-TRANS-3168-(6169.3)]
08 p1128 N84-17335
Ion-beam nitriding of steels
[NASA-TM-83599] 12 p1797 N84-21719

NITRILES
NT ACRYLONITRILES
Characterization of p-type CdTe electrodes in acetonitrile/electrolyte solutions. Nearly ideal behavior from reductive surface pretreatments
[AD-A130764] 01 p0071 N84-10486
Synthetic and mechanistic studies in fluorine chemistry. New developments in organonitrogen fluorine chemistry
[AD-A132844] 05 p0650 N84-14274
Process for preparing phthalocyanine polymers
[NASA-CASE-ARC-11511-1] 07 p0966 N84-16259
Effects of fuels on the physical properties of nitrile rubber O-rings
[AD-A136647] 10 p1470 N84-19599
Determination of the succinonitrile-benzene and succinonitrile-cyclohexanol phase diagrams by thermal and UV spectroscopic analysis
[NASA-TM-82581] 16 p2462 N84-25778
Navy mobility fuels evaluation
[AD-A144171] 24 p3890 N84-34630

NITRITES
Prevention of stress-corrosion cracking in nuclear waste storage tanks
[DE84-001410] 14 p2128 N84-23758

NITRO COMPOUNDS
NT NITROGUANIDINE
NT NITROMETHANE
NT TRINITRO COMPOUNDS
NT TRINITROTOLUENE
Structural effects on hydrogen bonding properties of nitro compounds
[AD-A130817] 02 p0190 N84-11232
MINDO/3 and MNDO calculations for nitro compounds
[AD-A141727] 19 p3101 N84-29698
Laser induced nitrations of some aliphatic hydrocarbon compounds 21 p3373 N84-31404

NITROAMINES
CARS studies of nitramine LOVA propellant combustion 13 p1951 N84-22683
NITROBENZENES
NT TRINITROTOLUENE
NITROCELLULOSE
U CELLULOSE NITRATE
NITROGEN
NT LIQUID NITROGEN
NT NITROGEN IONS
NT NITROGEN 15
The part played by the skin in the denitration of metal during vacuum arc remelting
[BLL-M-35213-(5828.4)] 01 p0041 N84-10261
Experimental determination of transport coefficients in CO2 laser gas mixtures
[DE83-013638] 01 p0088 N84-10572
Dielectric breakdown of MXB-71 phenolic and Sylgard 184/GMB silicone at high temperature
[DE83-016768] 02 p0201 N84-11312
Shocked fluids at high densities and temperatures
[DE83-015901] 02 p0219 N84-11437
Variation of the size of nitrogen droplets in a flow of gaseous nitrogen
[DFVLR-FB-83-13] 02 p0221 N84-11450
N(2) and CO vibrational CARS and h(2) rotational CARS spectroscopy of CH(4)-N(2)O flames
[AD-A132234] 04 p0493 N84-13238
Photon-stimulated ion desorption from condensed CO and N2
[AD-A133925] 05 p0647 N84-14254
Collisional excitation and radiation of atoms and molecules
[AD-A134093] 05 p0743 N84-14881
Localized hole effects in inner-shell excitation
[DE84-001401] 05 p0755 N84-14956
Prediction of pressure induced structural phase transitions and internal mode frequency changes in solid N2+
[DE83-014279] 05 p0756 N84-14960
Observations on the vanadium-nitrogen system and on pure metallic vanadium
[CSIR-TRANS-1708] 06 p0805 N84-15243
Vacuum ultraviolet photofragmentation of H2O and NO2: Laboratory studies and atmospheric applications
06 p0876 N84-15703
Rotational temperature measurements in free jet expansions of N2 using the electron beam fluorescence technique 07 p0984 N84-16376
Rotational CARS application to simultaneous and multiple-point temperature and concentration determination in a turbulent flow
[NASA-CR-175334] 07 p1001 N84-16489
Low-energy proton stopping power of N2, O2 and water vapor and deviations from Bragg's rule
07 p1071 N84-16956
Integrated aircraft fuel tank inerting and compartment fire suppression system. Volume 2: Evaluation of nitrogen-enriched air as a fire suppressant
[AD-A134883] 08 p1101 N84-17157
Radiative collisional laser feasibility demonstration
[AD-A135793] 09 p1322 N84-18640
Preliminary assessment of a rotary detonation engine concept
[AD-A137492] 10 p1431 N84-19354
Prochloron expedition 10 p1545 N84-20124
Fundamental organometallic reactions: Applications on the CYBER 205 10 p1560 N84-20221
Specifics of structure formation in nitrides synthesized by laser action on metals 12 p1784 N84-21640
NIPROP: A computer package for the thermodynamic and thermophysical properties of nitrogen
[OUEL-1485/83] 12 p1917 N84-22487
The electron density and temperature in the photoionized background gas (N2) surrounding a laser produced plasma
[AD-A138651] 13 p2044 N84-23266
USAF shale oil program status
14 p2107 N84-23633
CO + H/sub 2 reaction over nitrogen-modified iron catalysts
[DE84-009046] 15 p2288 N84-24727
Nitrogen threshold experiment
15 p2427 N84-25578
Nonlinear transmission of laser radiation by ZnTe monocrystals at helium temperatures
17 p2636 N84-26863
Computer simulation studies of sputtering from clean tungsten and nitrogen reacted tungsten and molybdenum surfaces
[AD-A140900] 17 p2769 N84-27581
A physical and chemical study of Titan: Atmosphere, clouds, and hazes 17 p2776 N84-27628
Aircraft fuel tank inerting system
[AD-A141863] 19 p2964 N84-28785
Ion makeup in upper atmosphere affected by source of X-ray radiation 19 p2973 N84-28850
Measurement of lifetimes of the vibrational levels of the B state of N2
[AD-A142161] 19 p3101 N84-29702
Surface-Enhanced Raman Scattering for redox-active adsorbates: Pentaammineosmium (3)/(2) and Pentaammineruthenium (2) containing nitrogen heterocycle ligands
[AD-A142418] 20 p3148 N84-29987
The influence of nitrogen on the sensitization, corrosion, mechanical and microstructural properties of stainless steels
[DE83-017203] 20 p3157 N84-30050
Increase in whole-body peripheral vascular resistance during three hours of air or oxygen prebreathing
[NASA-TM-58261] 20 p3259 N84-30684
Gas chromatographic analysis of nitrogen
[BLL-RISLEY-TRANS-4563-(9091.9)] 22 p3545 N84-32443
Vibrational energy relaxation and dissociation in N2
[AD-A143606] 23 p3827 N84-34276
Effect of annealing under thermodynamically stable conditions on the formation and transformation of structural defects in diamond monocrystals
[CSIR-TRANS-1737] 23 p3829 N84-34288
Influence of nitrogen-hydrogen-containing media on heat resistance properties of nickel-based alloys
24 p3877 N84-34570
Measurement and evaluation of arc characteristics (Ar,N2)
[NASA-TM-77507] 24 p3985 N84-35106
The nitrogen abundance in WC stars
24 p3977 N84-35192
Carbon and nitrogen abundances in field dwarf stars
24 p3986 N84-35236
NITROGEN COMPOUNDS
NT ALKALOIDS
NT ALUMINUM NITRIDES
NT AMIDES
NT AMMONIA
NT AMMONIUM NITRATES
NT ATROPINE
NT AZIDES (INORGANIC)
NT AZIDES (ORGANIC)
NT AZO COMPOUNDS
NT BORON NITRIDES
NT CARBAMIDES
NT CELLULOSE NITRATE
NT CYANO COMPOUNDS
NT DINITRATES
NT ERGOTAMINE
NT HYDROCYANIC ACID
NT IMIDES
NT IMINES
NT ISOCYANATES
NT LIQUID AMMONIA
NT MORPHINE
NT NITRATE ESTERS
NT NITRATES
NT NITRIC ACID
NT NITRIC OXIDE
NT NITRIDES
NT NITRITES
NT NITRO COMPOUNDS
NT NITROAMINES
NT NITROGEN DIOXIDE
NT NITROGEN HYDRIDES
NT NITROGEN OXIDES
NT NITROGEN POLYMERS
NT NITROGEN TETROXIDE
NT NITROGUANIDINE
NT NITROMETHANE
NT NITROSAMINE
NT NITROUS OXIDES
NT OXYNITRIDES
NT PETN
NT POLYIMIDES
NT QUINOLINE
NT RDX
NT SILICON NITRIDES
NT SODIUM NITRATES
NT THIAZINE (TRADEMARK)
NT TITANIUM NITRIDES
NT TRINITRO COMPOUNDS
NT TRINITROTOLUENE
NT TRYPTOPHAN
NT URACIL
NT UREAS
Method of production of nitrophosphates
[CSIR-TRANS-1689] 01 p0036 N84-10225
Kinetic studies of the reactions of CH3O2 with NO2 and OH with HNO3
[AD-A130922] 01 p0105 N84-10685
Selective catalytic hydrogenation of polynuclear heteroaromatic nitrogen compounds with polymer-supported transition-metal compounds
[DE84-001326] 04 p0495 N84-13248
PETN homolog analysis and large-scale preparation of pure PETN homologs by High-Performance Liquid Chromatography (HPLC)
[DE84-002169] 07 p0972 N84-16300
Intracavity laser excitation of NCO fluorescence in an atmospheric pressure flame
[AD-A134740] 08 p1164 N84-17579
Synthesis of energetic prepolymers
[AD-A135770] 09 p1288 N84-18409
The chemistry of nitrogen compounds in combustion processes
[AD-A139539] 14 p2123 N84-23723
Synthesis of energetic materials
[AD-A141495] 19 p3001 N84-29021
Gaseous cementation in nitrogen-methanol atmospheres
[CETIM-12-G-284] 21 p3369 N84-31374
NITROGEN DIOXIDE
Influence of nitrogen dioxide on xenobiotic metabolism in animals
[PB83-239723] 02 p0265 N84-11743
Measurements of hypergolic fuels' and oxidants' permeation through commercial protective materials: Part 1. Inhibited red fuming nitric acid and unsymmetrical dimethylhydrazine
[AD-A134714] 08 p1139 N84-17411
Prototype chemiluminescent analyzer for measurement of hydrazines and nitrogen dioxide
[AD-A135622] 09 p1279 N84-18354
Short-term human respiratory effects of nitrogen dioxide: Determination of quantitative dose-response profiles. Phase 1: Exposure of healthy volunteers to 4 PPM NO/sub 2
[PB84-132299] 10 p1548 N84-20148
Stratospheric NO and NO2 profiles at sunset from analysis of high-resolution balloon-borne infrared solar absorption spectra obtained at 33 deg N and calculations with a time-dependent photochemical model
[NASA-TM-86285] 20 p3240 N84-30566
Dosimetry of ozone and nitrogen dioxide in man and animals
[PB84-195304] 22 p3631 N84-33009
Integration of species sensitivity and dosimetry data in the extrapolation of ozone and nitrogen dioxide health data from animals to man
[PB84-195312] 22 p3631 N84-33010
Chemical reactions, radiative and energy transfer processes of important atmospheric species
[AD-A143264] 22 p3653 N84-33158
State-of-the art Differential Absorption and Scattering (DAS) lidar for SO2 and NO2 23 p3780 N84-33966
NITROGEN HYDRIDES
Elementary reactions of NH2 radicals in the gas, phase 3
[MPIS-2/1983] 05 p0652 N84-14285
Experimental and theoretical study of NOx by reduction by NHi in gas phase 17 p2724 N84-27340
Primary processes of electronically excited molecules in vapor phase, part 3
[MPIS-12/1983] 18 p2930 N84-28582
NITROGEN IONS
Charge state resolved energy spectra of He, N, Ar, and Ne ions — in a plasma focus 10 p1582 N84-20366
NITROGEN ISOTOPES
NT NITROGEN 15
NITROGEN LASERS
Thermal diffusivity in thin films measured by noncontact single-ended Pulsed-Laser-Induced thermal radiometry
[AD-A135991] 09 p1396 N84-19116
Dye laser traveling wave amplifier
[NASA-CR-175228] 15 p2338 N84-25036
Pulsed-laser generation of ultra-short acoustic pulses: Application for thin-film ultrasonic measurements
[AD-A141874] 19 p3100 N84-29690
A blackbody-pumped CO2-N2 transfer laser
[NASA-TP-2347] 21 p3408 N84-31617
NITROGEN OXIDES
NT NITRIC OXIDE
NT NITROGEN DIOXIDE
NT NITROGEN TETROXIDE
NT NITROUS OXIDES
Electrochemical generation of N2O5
[DE83-013377] 02 p0190 N84-11235
Localized hole effects in inner-shell excitation
[DE84-001401] 05 p0755 N84-14956
Mechanisms and reaction dynamics related to methane combustion
[PB84-100932] 08 p1128 N84-17333
Air pollution effects on terrestrial ecosystems
[PB84-126313] 08 p1184 N84-17712

Heavy-duty fuel economy program phase 5: Investigation of a heavy-duty 3-way catalyst system
[PB84-135722] 11 p1639 N84-20715
Properties of 3-dimensional energetic solids and molecular crystals
[AD-A137927] 11 p1744 N84-21382
Acid rain information book
[DE83-013693] 12 p1845 N84-22028
Experimental investigation of the low NO/sub x vortex airblast annular combustor
[NASA-TM-83615] 13 p1932 N84-22567
Inner-shell photoemission from atoms and molecules using synchrotron radiation
[DE84-006624] 14 p2223 N84-24339
Experimental and theoretical study of NOx by reduction by NHi in gas phase 17 p2724 N84-27340
European views on controlling acid rain
[PB84-194208] 20 p3239 N84-30563
Measurements of integral state-specific cross sections of inelastic collisions between NO and noble gases
[MPIS-18/1983] 20 p3297 N84-30935

NITROGEN POLYMERS
Synthesis of phosphorus-nitrogen polymers using Si-N-P reagents
[AD-A135224] 08 p1137 N84-17392
High energy density lithium primary cells using nitrogen containing polymer positives
[AD-A137377] 10 p1529 N84-20018
Polyphosphorus compounds containing phosphorus-nitrogen bonds
[AD-A137722] 11 p1628 N84-20655

NITROGEN TETROXIDE
A study of methods for alleviation of flow decay risk to the Galileo spacecraft 20 p3137 N84-29919
Purification of nitrogen tetroxide for long-term reliability 20 p3137 N84-29920
Electrostatic filtration of N2O4 for removal of solid and vapor contaminants 20 p3138 N84-29922
The evaporation and gaseous dispersion of large-scale releases of nitrogen tetroxide
[AD-A142079] 20 p3166 N84-30104

NITROGEN 15
A novel 15.9-micron source
[DE83-015234] 02 p0227 N84-11490

NITROGUANIDINE
Nitroguanidine wastewater pollution control technology: Phase 2 wastewater characterization and analytical methods development for organics
[AD-A141176] 18 p2811 N84-27844

NITROLYSIS
Nitrolysis of the CN single bond and related chemistry of nitro and nitroso groups
[AD-A141825] 19 p2989 N84-28937

NITROMETHANE
Investigation of the thermal initiation of detonation in nitromethane
[AD-A136211] 09 p1316 N84-18598
Experimental studies in molecular fragmentation: Processes, energetics and diagnostics
[AD-A136848] 18 p2810 N84-27840
Free radical detection and dynamics in propellant ignition and combustion systems
[AD-A142180] 19 p3002 N84-29023

NITRONIUM COMPOUNDS
Study of nitration and oxidation in oxynitrogen systems
[AD-A132742] 05 p0650 N84-14271

NITROSAMINE
Shock-initiated decomposition of nitramines with laser diagnostics 21 p3372 N84-31401

NITROUS OXIDES
Sources and sinks for nitrous oxide and experimental studies of the source of atmospheric COS, CS-2 and CH-3-Cl
[NASA-CR-175404] 10 p1531 N84-20030
O-atoms yields from microwave discharges in N2O/Ar mixtures
[AD-A130429] 14 p2137 N84-23808
Measurement of NO, NO/sub 2, and HNO/sub 3 using a tunable diode laser system. Phase 2: Modification to permit automated simultaneous multi-species monitoring and feasibility study of extension to H/sub 2O/sub 2, CH/sub 2O and HONO
[PB84-160076] 14 p2151 N84-23890
Atmospheric chemistry of H2O2, NO3, HONO, and HNO3: Influence of aqueous phase and heterogeneous processes
[PB84-183680] 20 p3243 N84-30592

NMR
U NUCLEAR MAGNETIC RESONANCE

NOAA E
U NOAA 8 SATELLITE

NOAA SATELLITES
NT NOAA 6 SATELLITE
NT NOAA 7 SATELLITE
Navy tactical applications guide. Operational environmental satellites. Polar-orbiting satellites geostationary satellites, spacecraft, sensors, imagery
[AD-A135466] 08 p1113 N84-17240
LANDSAT-4 commercialization update 10 p1523 N84-19974
NOAA satellite-derived operational sea surface temperature products 12 p1835 N84-21965
Measurement of sea surface temperature from HIRS2/MSU 12 p1836 N84-21966
Satellite activities of NOAA, 1983 22 p3540 N84-32408
A national program for data collection platforms: Information techniques for users
[INPE-3137-NTE/219] 24 p3858 N84-34456

NOAA 6 SATELLITE
AVHRR aerosol ground truth experiment
[PB84-157882] 14 p2181 N84-24065
Aspects of the Brazil current system according to SMS-2, NOAA-6, and Tiros-N satellites for 1979 to 1980
[INPE-2975-RPE/450] 22 p3627 N84-32982

NOAA 7 SATELLITE
Using the NOAA-7 AVHRR data to monitor El Chichon aerosol evolution and subsequent sea surface temperatures anomalies 10 p1539 N84-20083
Determination of sea surface temperatures from high resolution infrared satellite measurements
[REPT-115] 12 p1837 N84-21975
Mapping the Fram Strait ice edge using AVHRR imagery and NOAA satellite orbital data 23 p3773 N84-33915
Methodology for interpretation of SST retrievals using the AVHRR split window algorithm
[NASA-TM-85100] 24 p3934 N84-34905

NOAA 8 SATELLITE
Mapping the Fram Strait ice edge using AVHRR imagery and NOAA satellite orbital data 23 p3773 N84-33915

NOBLE GASES
U RARE GASES

NOBLE METALS
NT GOLD
NT RUTHENIUM
NT SILVER
NT SILVER ISOTOPES
Recycling of noble metals in connection with electrochemical processes
[BMFT-FB-T-83-140] 02 p0192 N84-11245
Platinum-group metals
[PB83-239152] 02 p0198 N84-11291
Effect of environment and materials properties on the friction and wear behavior of precious metal electrical contact alloy couples
[DE83-010403] 02 p0215 N84-11409
Precipitation of metals from solutions by baser metals
[CSIR-1712] 06 p0804 N84-15242
The quick and complete recovery of the precious metals of low-grade sweeps and scrap
[BMFT-FB-T-84-003] 15 p2299 N84-24801

NOCTILUCENCE
U LUMINESCENCE

NOCTURNAL VARIATIONS
Use of thermal inertia determined by HCMM to predict nocturnal cold prone areas in Florida
[E84-10005] 02 p0235 N84-11546
Identifying environmental features for land management decisions
[E84-10016] 03 p0392 N84-12556
SRL tethersonde and echosonde data, Anderson Creek Valley, California
[DE84-001680] 04 p0564 N84-13715
Vertical and horizontal phase propagation in the mesopause region observed by the OI5577 angstrom, O/sub 2 atmospheric band, NaD and OH(8,3) band nightglow emissions
[INPE-3022-PRE/460] 12 p1846 N84-22035
Untapped midwestern wind energy resource: Nocturnal low-level wind maxima
[DE84-006424] 13 p2017 N84-23077
Some physical concepts in complex terrain meteorology derived from the Department of Energy's ASCOT program
[DE84-010059] 20 p3247 N84-30607
Nighttime observations of thunderstorm electrical activity from a high altitude airplane 24 p3926 N84-34853

NOE NAVIGATION
U NAP-OF-THE-EARTH NAVIGATION

NOISE
Studies to improve environmental assessments of sonic booms produced during air combat maneuvering
[AD-A138254] 12 p1899 N84-22368
Logic-type Schmitt circuit using multi-valued gates
[AD-P002353] 14 p2192 N84-24144

NOISE (SOUND)
NT AERODYNAMIC NOISE
NT AIRCRAFT NOISE
NT ENGINE NOISE
NT JET AIRCRAFT NOISE
NT SONIC BOOMS
NT THERMAL NOISE
The effects of small noise on implicitly defined non-linear dynamical systems
[AD-A131632] 03 p0428 N84-12808
Industrial noise control: The past three years 10 p1505 N84-19846
The effect of noise and display orientation on cognitive performance
[AD-A136806] 10 p1550 N84-20158
Short term measurements of omnidirectional ambient noise in the southwest Atlantic during January 1981
[AD-A137666] 11 p1692 N84-21033
Vocoder analysis based on properties of the human auditory system
[AD-A138660] 14 p2141 N84-23837
Noise, A bibliography
[AD-A138896] 14 p2221 N84-24326
Analysis of the sound field radiated by the Ariane launch vehicle during lift-off 16 p2476 N84-25872
Physiological, Psychological, and Social Effects of Noise
[NASA-RP-1115] 19 p3069 N84-29465
Activities report of the Institute of Sound and Vibration Research 19 p3100 N84-29693
Wind-generated noise in shallow water
[AD-A141981] 20 p3290 N84-30890
Noise as a public health problem, volume 1
[AD-A142412] 21 p3436 N84-31799
Noise as a public health problem, volume 2
[AD-A142413] 21 p3436 N84-31800
Studies in a transonic rotor aerodynamics and noise facility
[NASA-CR-166588] 22 p3538 N84-32399
An improved method for the prediction of centrifugal compressor rotational-tone noise
[DE84-013345] 22 p3605 N84-32842
Study of annoyance due to urban automobile traffic. Annex 5: Sociological study
[NASA-TM-77515] 24 p3968 N84-35124

NOISE ATTENUATION
U NOISE REDUCTION

NOISE ELIMINATION
U NOISE REDUCTION

NOISE GENERATORS
Acoustic ranging technique with application to assessment of low-frequency acoustic noise of wind turbines
[DE83-009106] 01 p0140 N84-10921
La Recherche Aerospatiale, Bimonthly Bulletin, no. 1982-3, 208/May-June 1982
[ESA-TT-771] 04 p0593 N84-13916
Transonic noise generation by duct and profile flow
[AD-A129367] 06 p0908 N84-15899
Helicopter impulsive noise: Theoretical and experimental status
[NASA-TM-84390] 09 p1386 N84-19050
Broadband rotor noise analyses
[NASA-CR-3797] 12 p1899 N84-22365
Propeller and rotor noise testing in aeroacoustic wind tunnels 14 p2097 N84-23583
Acoustic-optic spectrometer. 1: Noise contributions and system consideration
[NASA-TM-85613] 14 p2221 N84-24326
Time interval errors of a Flicker-noise generator 16 p2480 N84-25902
A critical review of noise production models for turbulent, gas-fueled burners
[NASA-CR-3803] 16 p2554 N84-26384
Experiment versus theory 19 p3098 N84-29679

NOISE HAZARDS
U HAZARDS
U NOISE (SOUND)

NOISE INJURIES
Noise-induced hearing loss and its prediction 19 p3069 N84-29472
Noise-induced hearing impairment and handicap 19 p3069 N84-29473

NOISE INTENSITY
Field-incidence transmission of treated orthotropic and laminated composite panels
[NASA-TM-85680] 01 p0139 N84-10911
The effects of small noise on implicitly defined non-linear dynamical systems
[AD-A131632] 03 p0428 N84-12808
Study of noise-certification standards for aircraft engines. Volume 3: Selection and evaluation of engine-noise-certification concept
[AD-A137805] 11 p1614 N84-20563
Turbulence and 1/f noise in quantum optics 14 p2232 N84-24385

Annoyance ratings for impulse and traffic sounds at two different background noise levels
[IZF-1983-27] 17 p2725 N84-27345
Mental and psychomotor task performance in noise
19 p3069 N84-29474
Reactions to community noise
19 p3070 N84-29476
Helicopter engine core noise
19 p3098 N84-29676
Acoustic pressures emanating from a turbomachine stage
[NASA-TM-83734] 20 p3183 N84-30224
Computation of the fluid-borne noise in hydrostatic systems and ways to decrease it
[BMFT-FB-HA-84-023] 21 p3403 N84-31593
Study of double wall panels for use in propeller driven aircraft
[NASA-CR-173847] 21 p3490 N84-32116
The loudness of complex noise consisted of impact sound and steady noise 23 p3741 N84-33711

NOISE MEASUREMENT

Model helicopter rotor high-speed impulsive noise: Measured acoustics and blade pressures
[NASA-TM-85850] 01 p0003 N84-10020
Investigation of effects of microphone position and orientation on near-ground noise measurements
[NASA-TP-2004] 01 p0139 N84-10913
Internal noise of low-frequency preamplifiers
[AD-A131532] 02 p0213 N84-11398
Study of 1/f noise in solids
[AD-A133856] 05 p0753 N84-14939
Aeroacoustics: Ten Years of Research — conferences
[VKI-LS-1983-05] 06 p0767 N84-15025
Instrumentation and signal analysis — aeroacoustics
06 p0768 N84-15032
Study of noise-certification standards for aircraft engines. Volume 2: Procedures for measuring far field sound pressure levels around an outdoor jet-engine test stand
[AD-A133408] 06 p0791 N84-15158
Noise levels and data analyses for small prop-driven aircraft
[AD-A134598] 07 p0952 N84-16175
The effects of blade mounted vortex generators on the noise from a MOD-2 wind turbine generator
[NASA-CR-172292] 08 p1227 N84-18017
Simplified combustion noise theory yielding a prediction of fluctuating pressure level
[NASA-TP-2237] 09 p1386 N84-19049
In-flight acoustic testing techniques using the YO-3A Acoustic Research Aircraft
[NASA-TM-85895] 10 p1427 N84-19334
Short term measurements of omnidirectional ambient noise in the southwest Atlantic during January 1981
[AD-A137666] 11 p1692 N84-21033
Strategies for and validity of noise monitoring in the vicinity of civilian airfields and army installations
[AD-A137780] 11 p1729 N84-21279
Nearly optimal detection of signals in non-Gaussian noise
[AD-A138657] 13 p1983 N84-22872
Aeroacoustic noise measurements in wind tunnel
14 p2097 N84-23584
Installation noise measurements of model SR and CR propellers
[NASA-TM-85790] 15 p2403 N84-25425
Acoustic measurements of a full-scale rotor with four tip shapes. Volume 2: Appendices C, D, E and F
[NASA-TM-85878-VOL-2] 15 p2403 N84-25426
Noise measurement flight test: Data/Analyses Bell 222 twin jet helicopter
[AD-A139906] 15 p2404 N84-25430
Process controlled measuring valve acquisition taking example by the noise measuring technique
[PTB-E-25] 16 p2554 N84-26389
Noise of 1/f form in polycrystalline aluminum films
17 p2633 N84-26843
Evaluation of characteristics of system of space-time processing of signals by statistical simulation method
17 p2633 N84-26845
Noise immunity of optical lines with imprecise levels of signal and noise 17 p2634 N84-26852
Experimental study using Nearfield Acoustical Holography of sound transmission fuselage sidewall structures
[NASA-CR-173639] 17 p2671 N84-27024
2.0 GHz to 4.0 GHz automated radiometer operation and service manual
[PB84-165158] 17 p2672 N84-27031
TRISTEN/FRAM IV arctic ambient noise measurements
[AD-A140656] 17 p2763 N84-27549
Digital phase meter 18 p2826 N84-27941
A description of two methods for calculation of low frequency wind turbine noise, including applications for the Swedish prototype Wind Energy Conversion System (WECS) Maglarp
[FFA-TN-1983-31] 18 p2876 N84-28262
Noise path identification using face-to-face and side-by-side microphone arrangements
[NASA-CR-173708] 18 p2928 N84-28569
Physiological, Psychological, and Social Effects of Noise
[NASA-RP-1115] 19 p3069 N84-29465
Definitions of noise and noise pollution
19 p3069 N84-29466
Physical measures of sound and noise
19 p3069 N84-29467
Speech communications in noise
19 p3069 N84-29469
Loudness, noisiness, and vibration effects
19 p3069 N84-29470
Presbycusis, sociocusis, and nosocusis
19 p3069 N84-29471
Noise reduction experience at Hughes Helicopter, Inc.
19 p3096 N84-29668
Boeing Vertol noise reduction experience
19 p3096 N84-29667
Rotary wing aerodynamically generated noise
19 p3097 N84-29668
NASA/Army supported noise source/noise reduction programs at Langley 19 p3097 N84-29669
Rotorcraft noise prediction 19 p3098 N84-29677
Aerodynamic prediction I 19 p3098 N84-29680
General aviation aircraft interior noise problem: Some suggested solutions
[NASA-CR-173784] 19 p3099 N84-29685
A method of measuring distortion noise in digital audio equipment
[NHK-LABS-NOTE-299] 20 p3177 N84-30174
Test rig for measuring hydraulic equipment noise
[CETIM-41-H-337] 21 p3345 N84-31224
Synoptic scale wind field properties from the SEASAT SASS
[E84-10169] 21 p3426 N84-31732
Application of an adaptive noise technique on state estimation to data smoothing
[INPE-3187-PRE/552] 21 p3465 N84-31963
Acoustic tests of the MOD-O/5A wind turbine rotor with two different ailerons
[NASA-CR-172427] 21 p3491 N84-32120
Analysis of the effect on combustor noise measurements of acoustic waves reflected by the turbine and combustor inlet
[NASA-TM-83760] 21 p3491 N84-32122
A study of methods to predict and measure the transmission of sound through the walls of light aircraft. A survey of techniques for visualization of noise fields
[NASA-CR-173917] 22 p3652 N84-33146
An experimental investigation of the effect of boundary layer refraction on the noise from a high-speed propeller
[NASA-TM-83764] 23 p3821 N84-34230
An extended real-time microwave airplane position system 24 p3850 N84-34419
Comparison of frequency-domain and time-domain rotorcraft vibration control methods
[NASA-CR-166570] 24 p3852 N84-34431

NOISE METERS

Ride quality meter
[NASA-CASE-LAR-12882-1] 03 p0375 N84-12445
Instrumentation requirements for small scale towed temperature measurements
[AD-A139897] 15 p2336 N84-25026

NOISE POLLUTION

Helicopter noise survey conducted at Norwood, Massachusetts on April 27, 1983
[AD-A131053] 01 p0140 N84-10922
Influence of physical and air traffic conditions on aircraft noise emission to the ground
[MPIS-11/1982] 02 p0177 N84-11159
Noise emission by helicopters
03 p0457 N84-13007
Airport noise control strategies
[AD-A133137] 06 p0908 N84-15900
Strategies for and validity of noise monitoring in the vicinity of civilian airfields and army installations
[AD-A137780] 11 p1729 N84-21279
Annoyance ratings for impulse and traffic sounds presented in quiet surroundings
[IZF-1983-23] 12 p1900 N84-22373
Aircraft noise legislation: An overkill
[PNR-90167] 13 p2010 N84-23037
Community reaction to impulsive noise: A 10-year research summary
[AD-A141762] 19 p3052 N84-29369
Physiological, Psychological, and Social Effects of Noise
[NASA-RP-1115] 19 p3069 N84-29465
Definitions of noise and noise pollution
19 p3069 N84-29466
Loudness, noisiness, and vibration effects
19 p3069 N84-29470
Guidelines for assessment and control of noise
19 p3070 N84-29477
Helicopter engine core noise
19 p3098 N84-29676

NOISE PREDICTION

An empirical method for predicting the mixing noise levels of subsonic circular and coaxial jets
[NASA-CR-3786] 09 p1385 N84-19048
A theoretical prediction of the acoustic pressure generated by turbulence-flame front interactions
[NASA-TM-83587] 16 p2553 N84-26383
Rotorcraft noise prediction 19 p3098 N84-29677
Computation of the fluid-borne noise in hydrostatic systems and ways to decrease it
[BMFT-FB-HA-84-023] 21 p3403 N84-31593
A study of methods to predict and measure the transmission of sound through the walls of light aircraft. A survey of techniques for visualization of noise fields
[NASA-CR-173917] 22 p3652 N84-33146
Application of stiffened cylinder analysis to ATP interior noise studies
[NASA-CR-172384] 22 p3652 N84-33147

NOISE PREDICTION (AIRCRAFT)

Rotor-vortex interaction noise
[NASA-CR-3744] 01 p0139 N84-10912
Study of noise transmission through double wall aircraft windows
[NASA-CR-172182] 02 p0287 N84-11884
Helicopter impulsive noise: Theoretical and experimental status
[NASA-TM-84390] 09 p1386 N84-19050
Contribution to the study of light aircraft propeller noise
[AD-B073101] 16 p2554 N84-26386
Airfield Noise Evaluation Program (ANEP)
[VTH-LR-370] 17 p2725 N84-27342
Noise path identification using face-to-face and side-by-side microphone arrangements
[NASA-CR-173708] 18 p2928 N84-28569
Role of empirical methods 19 p3097 N84-29670
Priority for empirical methods development
19 p3097 N84-29671
Facility requirements for helicopter noise research
19 p3097 N84-29672
Acoustic methodology review
19 p3098 N84-29674
Rotor noise prediction technology: Theoretical approach 19 p3098 N84-29678
Aerodynamic prediction I 19 p3098 N84-29680
Aerodynamic predictions II 19 p3098 N84-29681
General aviation aircraft interior noise problem: Some suggested solutions
[NASA-CR-173784] 19 p3099 N84-29685
Simulation procedure for the calculation of aircraft noise 19 p3100 N84-29692
Prediction of light aircraft interior sound pressure level using the room equation
[NASA-CR-173840] 21 p3490 N84-32117
Analytical model of the structureborne interior noise induced by a propeller wake
[NASA-CR-172381] 21 p3490 N84-32119
The effect of aircraft with noise certificates according to class ICAO Annex 16 on the determination of noise protection domains following the law on protection against aircraft noise
[MPIS-117/1983] 23 p3821 N84-34234

NOISE PROPAGATION

Field-incidence transmission of treated orthotropic and laminated composite panels
[NASA-TM-85680] 01 p0139 N84-10911
Influence of physical and air traffic conditions on aircraft noise emission to the ground
[MPIS-11/1982] 02 p0177 N84-11159
Cross spectra between pressure and temperature in a constant-area duct downstream of a hydrogen-fueled combustor
[NASA-TM-83463] 02 p0287 N84-11885
An analysis of noise and interference in a satellite based mobile communications system
05 p0665 N84-14369
Study of noise-certification standards for aircraft engines. Volume 1: Noise-control technology for turbofan engines
[AD-A133386] 06 p0790 N84-15157
Extraterrestrial radio noise and its effect on radar performance 06 p0870 N84-15662
La Recherche Aerospatiale bimonthly bulletin, number 1983-3, 214/May-June
[ESA-TT-822] 08 p1226 N84-18014
Contributions to the theory of quantum 1/f noise
08 p1236 N84-18082

Application of noise waves and scattering/scattering-transfer matrices for noise analysis of microwave mixers
[REPT-S-137] 09 p1305 N84-18529
On the significance of unsteady surface pressures for aerodynamically induced interior noise of automobiles
[DFVLR-FB-83-28] 10 p1423 N84-19303
Studies of noise transmission in advanced composite material structures 20 p3146 N84-29977
Experimental study of noise transmission into a general aviation aircraft
[NASA-CR-172357] 20 p3290 N84-30888

NOISE REDUCTION

Computerized audio processor
[AD-A130390] 01 p0063 N84-10411
Light aircraft sound transmission study
[NASA-CR-174540] 01 p0139 N84-10910
Field-incidence transmission of treated orthotropic and laminated composite panels
[NASA-TM-83680] 01 p0139 N84-10911
The performance of small jet noise silencers for industrial applications
[PB83-234047] 02 p0230 N84-11507
Study of noise transmission through double wall aircraft windows
[NASA-CR-172182] 02 p0287 N84-11884
A light assembly system of sections adaptable to sound or heat insulation, for numerous applications
[BMFT-FB-T-83-065] 02 p0288 N84-11889
Technique for producing a coherent sum of the data from P78-1, F2, and F4 satellites
[AD-A131965] 03 p0340 N84-12210
Noise reduction and segmentation of IR images using CO-median filters
[RSRE-MEMO-3582] 03 p0366 N84-12378
SAR speckle noise reduction using Wiener filter 03 p0393 N84-12568
Continued research on selected parameters to minimize community annoyance from airport noise
[NASA-CR-174607] 04 p0559 N84-13688
Technology evaluation of man-rated acceleration test equipment for vestibular research
[NASA-CR-172160] 04 p0574 N84-13781
Inverted velocity profile semi-annular nozzle jet exhaust noise experiments
[NASA-TM-83525] 04 p0595 N84-13924
Low noise amplifier with a JFET inlet stage
[IFSI-83-8] 05 p0677 N84-14452
Adaptive noise cancellation in neuromagnetic measurement systems
[AD-A132547] 05 p0684 N84-14494
Noise reduction of automobile tires
[MBB-BB-539-83-OE] 05 p0687 N84-14517
Apparatus and method for jet noise suppression
[NASA-CASE-LAR-11903-2] 05 p0742 N84-14873
A possible explanation for the present difference between linear noise theory and experimental data for supersonic helical tip speed propellers
[NASA-TM-83467] 05 p0742 N84-14874
The effects of external and self excitations on axisymmetric jet turbulence and noise 05 p0743 N84-14878
Mach 0.6 to 3.0 flows over rectangular cavities
[AD-A134579] 06 p0782 N84-15121
Study of noise-certification standards for aircraft engines. Volume 1: Noise-control technology for turbofan engines
[AD-A133386] 06 p0790 N84-15157
Periodic flow noise reduction using flow-excited resonators: Theory and application — centrifugal fans
[DFVLR-FB-83-29] 06 p0831 N84-15409
Fluid shielding of high-velocity jet noise
[NASA-TP-2259] 06 p0907 N84-15894
Aspects of damping of sonic vibrations due to impact loading in plate steels
[BLL-M-35295-(5828.4)] 06 p0908 N84-15895
Spinning mode acoustic radiation from the flight inlet
[NASA-CR-172273] 06 p0908 N84-15896
Acoustic shocks in a variable area duct containing near sonic flows
[NASA-CR-172274] 06 p0908 N84-15897
Phase averaged measurements of the coherent structure of a mach number 0.6 jet
[NASA-CR-175359] 07 p0945 N84-16134
Analysis of the performance of the free electron bolometer
[AD-A134139] 07 p1006 N84-16533
Measurement of transmission loss characteristics using acoustic intensity techniques at the KU-FRL Acoustic Test Facility
[NASA-CR-173187] 07 p1069 N84-16942
Investigation of fuselage acoustic treatment for a twin-engine turboprop aircraft in flight and laboratory tests
[NASA-TM-85722] 07 p1069 N84-16947
Adaptive feedforward linear wideband HF power bank
[AD-A134744] 08 p1151 N84-17493
Reduction of propeller noise by a reflecting rubber layer — ship propellers
[FOA-C-20506-E4] 08 p1228 N84-18025
Approaching noise performance limits of Schottky-barrier mixers at millimeter waves
[REPT-S-134] 09 p1310 N84-18567
Performance appraisal of VAS radiometry for GOES-4, -5 and -6
[NASA-TM-85125] 09 p1344 N84-18781
Noise-reduction measurements of stiffened and unstiffened cylindrical models of an airplane fuselage
[NASA-TM-85716] 09 p1386 N84-19052
Suppression of peak noise by reshaping coaxial flow circumferentially under static conditions
[NAL-TR-770] 09 p1386 N84-19053
The Page Matric: An excellent tool for noise filtering of Markov parameters, order testing and realization
[EUT-82-E-127] 10 p1489 N84-19735
Investigation of the acoustic characteristics of aircraft/engines operating in a dry-cooled jet engine maintenance test facility 10 p1513 N84-19901
Combined sweeps for seismic reflection surveys using the VIBROSEIS system
[BMFT-FB-T-83-211] 10 p1537 N84-20073
Study of noise-certification standards for aircraft engines. Volume 3: Selection and evaluation of engine-noise-certification concept
[AD-A137805] 11 p1614 N84-20563
Employment of adaptive learning techniques for the discrimination of acoustic emissions
[AD-A138142] 12 p1899 N84-22366
Active sound reduction systems — headsets
[IZF-1983-8] 12 p1900 N84-22371
State-space structures for the realization of low roundoff noise digital filters 13 p1987 N84-22900
Fan noise reduction achieved by removing tip flow irregularities behind the rotor - forward arc test configurations
[NASA-TM-83616] 13 p2040 N84-23235
Experimental investigation of shock-cell noise reduction for dual-stream nozzles in simulated flight comprehensive data report. Volume 1: Test nozzles and acoustic data
[NASA-CR-168336-VOL-1] 14 p2220 N84-24323
Experimental investigation of shock-cell noise reduction for dual-stream nozzles in simulated flight comprehensive data report. Volume 2: Laser velocimeter data, static pressures and shadowgraph photos
[NASA-CR-168336-VOL-2] 14 p2220 N84-24324
Noise, A bibliography
[AD-A138896] 14 p2221 N84-24328
Flight simulation investigations for the problem of flyability of noise optimal approach and takeoff paths
[IFD-3/83] 14 p2221 N84-24329
Description of an electromagnetic compatibility laboratory
[SNIAS-832-422-103] 15 p2321 N84-24933
Improving slipring performance 15 p2347 N84-25086
Active noise reduction
[AD-A139741] 15 p2404 N84-25428
Towards a better understanding of helicopter external noise
[SNIAS-832-210-113] 16 p2554 N84-26388
USSR report: Electronics and electrical engineering
[JPRS-UEE-84-007] 17 p2630 N84-26821
On the possibilities of single-antenna ionosphere sounding 17 p2631 N84-26829
Noise of 1/f form in polycrystalline aluminum films 17 p2633 N84-26843
Flight Track and Aircraft Noise Monitoring System (FANAMOS)
[NLR-MP-83043-U] 17 p2725 N84-27343
Thermal bifurcation in the upper solar photosphere inferred from heterodyne spectroscopy of OH rotational lines
[NASA-TM-86126] 17 p2781 N84-27654
Preliminary experimental and theoretical results on cantilever vibration absorbers applied for aircraft cabin vibration
[SPER-8390] 18 p2794 N84-27730
Theoretical and experimental results of dynamic behavior of periodically stiffened cylindrical shell 18 p2794 N84-27731
Experimental modal analysis of a partial full-scale fuselage of turboprop aircraft — vibration modes 18 p2794 N84-27732
Radar data smoothing filter study
[NASA-CR-168347] 18 p2844 N84-28059
Development of low noise vacuum vane pumps
[BMFT-FB-HA-84-009] 18 p2850 N84-28094
Feasibility study on a new type of personal noise protection
[BMFT-FB-HA-84-017] 18 p2915 N84-28489
A preliminary design study on an acoustic muffler for the laminar flow transition research apparatus
[NASA-CR-172374] 19 p2958 N84-28748
Procedures for signal reconstruction from noisy phase
[AD-A142185] 19 p3016 N84-29120
Noise reduction and line following in multiscanned data — digital data 19 p3039 N84-29283
Physiological, Psychological, and Social Effects of Noise
[NASA-RP-1115] 19 p3069 N84-29465
Definitions of noise and noise pollution 19 p3069 N84-29466
Speech communications in noise 19 p3069 N84-29469
Rotorcraft noise
[NASA-CP-2234] 19 p3096 N84-29662
Noise reduction techniques: Criteria and validation 19 p3096 N84-29664
A comparison of wind tunnels suitable for rotorcraft noise studies 19 p3096 N84-29665
Noise reduction experience at Hughes Helicopter, Inc. 19 p3096 N84-29666
Boeing Vertol noise reduction experience 19 p3096 N84-29667
Rotary wing aerodynamically generated noise 19 p3097 N84-29668
NASA/Army supported noise source/noise reduction programs at Langley 19 p3097 N84-29669
Priority for empirical methods development 19 p3097 N84-29671
Helicopter engine core noise 19 p3098 N84-29676
State of the art: Design for noise I 19 p3099 N84-29682
State of the art: Design for noise II 19 p3099 N84-29683
A designer's viewpoint: Requirements for reducing helicopter noise 19 p3099 N84-29684
General aviation aircraft interior noise problem: Some suggested solutions
[NASA-CR-173784] 19 p3099 N84-29685
Propeller aircraft interior noise model
[NASA-CR-3813] 19 p3099 N84-29687
Scope for active noise abatement in vehicle diesel engines
[BLL-M-28767-(5825.4)] 20 p3290 N84-30885
Active attenuation of propeller blade passage noise
[NASA-CR-172366] 20 p3290 N84-30886
Active sound reduction: A study of recent developments and some future possibilities
[F83-06] 20 p3292 N84-30899
Compressed air exhaust silencers, summary
[CETIM-11-H-275] 21 p3414 N84-31650
Study of double wall panels for use in propeller driven aircraft
[NASA-CR-173847] 21 p3490 N84-32116
Analytical investigation of synchrophasing as a means of reducing aircraft interior noise
[NASA-CR-3823] 21 p3491 N84-32123
Video noise reduction
[BBC-RD-1984/7] 22 p3571 N84-32615
Application of stiffened cylinder analysis to ATP interior noise studies
[NASA-CR-172384] 22 p3652 N84-33147
Experimental investigation of shock-cell noise reduction for single-stream nozzles in simulated flight, comprehensive data report. Volume 1: Test nozzles and acoustic data
[NASA-CR-168234-VOL-1] 22 p3652 N84-33148
Phase sensitive guidance sensor for wire-following vehicles
[NASA-CASE-NPO-15341-1] 23 p3750 N84-33769
Bulk acoustic resonator tracking filter
[AD-D011159] 23 p3821 N84-34233
Activities of the Technical Physics Service of the Dutch Central Organization for Scientific Research, past and present 23 p3845 N84-34393
Supersonic jet shock noise reduction
[NASA-TM-83799] 24 p3961 N84-35085
Study of annoyance due to urban automobile traffic. Annex 5: Sociological study
[NASA-TM-77515] 24 p3968 N84-35124

NOISE SPECTRA

Optimum reception in non-Gaussian electromagnetic interference environments. Part 2: Optimum and suboptimum threshold signal detection in class A and B noise
[PB83-241141] 03 p0363 N84-12364
Large-area mercuric iodide photodectors
[DE83-013035] 03 p0441 N84-12898
Measurement of macroscopic plasma parameters with a radio experiment: Interpretation of the quasi-thermal noise spectrum observed in the solar wind 03 p0470 N84-13096

Inverted velocity profile semi-annular nozzle jet exhaust noise experiments
[NASA-TM-83525] 04 p0595 N84-13924
Study of a gravitational antenna coupled to a resonant capacitive transducer: Equivalent circuit and noise spectra
[IFSI-82-3] 05 p0677 N84-14450
Electrode noise in beta aluminas
[AD-A134637] 06 p1152 N84-17497
Analysis of sound produced by wind turbines in turbulent flow
[FFA-TN-1983-44] 09 p1387 N84-19057
Measurements in the presence of nonwhite noise — stellar spectrophotometry 09 p1411 N84-19224
An experimental study of the properties of surface pressure fluctuations in strong adverse pressure gradient turbulent boundary layers
[NASA-CR-175410] 11 p1601 N84-20488
Investigation of noise in silicon avalanche photodiodes
[FI-14-TBR-11] 14 p2244 N84-24474
Investigation of dynamic noise affecting geodynamics information in a tethered subsatellite
[NASA-CR-173558] 15 p2319 N84-24923
Concerning criteria for evaluation of amplitude-frequency characteristic of two-signal selectivity of radio reception channel 17 p2633 N84-26846
Improved charge injection device and a focal plane interface electronics board for stellar tracking
[NASA-CR-171066] 19 p3012 N84-29092
Rotorcraft noise prediction 19 p3098 N84-29677
Description of a microwave system for the measurement of close to carrier AM and FM noise spectra
[LEOK-TR-1984-04] 20 p3176 N84-30168
Random signal recognition based on spectral moments 22 p3566 N84-32597
Approximate methods for obtaining the complex natural electromagnetic oscillations of an object
[AD-A143913] 23 p3821 N84-34229

NOISE SUPPRESSORS
U NOISE REDUCTION

NOISE TEMPERATURE
Analysis of the performance of the free electron bolometer
[AD-A134139] 07 p1008 N84-16533
Approaching noise performance limits of Schottky-barrier mixers at millimeter waves
[REPT-S-134] 09 p1310 N84-18567
Cryogenic 75-95 GHz front-end for the Metsaehovi radio telescope
[REPT-S-145] 15 p2424 N84-25564
Gravitational antenna with non tuned resonant transducer
[IFSI-84-1] 18 p2831 N84-27972
Analysis of noise temperature of optical waveguide 21 p3377 N84-31434

NOISE THRESHOLD
Suboptimal threshold detection in narrowband non-Gaussian noise
[AD-A129629] 01 p0071 N84-10464
Multiple-element threshold signal detection of underwater acoustic signals in nongaussian interference environments
[AD-A140620] 17 p2763 N84-27548

NOISE TOLERANCE
Aircraft and background noise annoyance effects
[NASA-TM-85744] 09 p1386 N84-19051
Loudness, noisiness, and vibration effects 19 p3069 N84-29470
Combined effect of noise and vibration on passenger acceptance
[NASA-TM-86284] 23 p3810 N84-34161
Study of annoyance due to urban automobile traffic. Annex 5: Sociological study
[NASA-TM-77515] 24 p3968 N84-35124

NOMENCLATURES
Key to aluminium alloys. Designations, compositions, trade names of aluminium materials, first edition
[ISBN-3-87017-160-X] 10 p1458 N84-19522
Physical measures of sound and noise 19 p3069 N84-29467
Government acronyms and alphabetic organizational designations used in DTIC (Defense Technical Information Center)
[AD-A142700] 20 p3314 N84-31049

NOMINAL VALUES
U APPROXIMATION

NOMOGRAMS
U NOMOGRAPHS

NOMOGRAPHS
Nomogram for demonstrating change in central venous and pulmonary artery pressure during decompression of different parts of the body 20 p3255 N84-30660

NONADIABATIC CONDITIONS
Nonadiabatic model wall effects on transonic airfoil performance in a cryogenic wind tunnel 14 p2096 N84-23579

NONADIABATIC PROCESSES
U HEAT TRANSFER

NONAQUEOUS ELECTROLYTES
Investigation of the possibilities for the electrodeposition of titanium from non-aqueous solutions
[BLL-OA-TRANS-3069-(6196.3)] 04 p0498 N84-13267

NONCONDUCTORS
U ELECTRICAL INSULATION

NONDESTRUCTIVE TESTS
NT NEUTRON RADIOGRAPHY
NT PRELAUNCH TESTS
NT STATIC FIRING
Advanced fatigue damage development in graphite epoxy laminates
[AD-A130190] 01 p0031 N84-10194
Quality control and nondestructive evaluation techniques for composites. Part 2: Physiochemical characterization techniques, a state-of-the-art review
[AD-A131038] 01 p0032 N84-10200
Characterization, Analysis and Significance of Defects in Composite Materials
[AGARD-CP-355] 01 p0032 N84-10203
NDE techniques for composite laminates 01 p0033 N84-10205
Monitoring of defect progression by acoustic emission 01 p0033 N84-10206
Dissecting composite parts: A valuable aid in concept design and nondestructive control 01 p0033 N84-10207
Correction between nondestructive inspection results and performance of graphite/epoxy structural parts 01 p0034 N84-10212
Advanced ND techniques for composite primary structures 01 p0034 N84-10216
In-service NDI of composite structures: An assessment of current requirements and capabilities 01 p0035 N84-10220
Project scattering of elastic waves
[DE83-013574] 01 p0068 N84-10444
Development of nondestructive full-test requirements for gold wires on multilayer thick-film hybrid microcircuits
[DE83-014368] 01 p0093 N84-10602
Scattering of waves by irregularities in periodic discrete lattic spaces. Part 2: Calculations
[AD-A130665] 01 p0140 N84-10917
Semiconductor surface characterization using transverse acoustoelectric voltage versus voltage measurements
[AD-A131347] 02 p0298 N84-11955
Non-destructive testing of non-metallic materials using microwaves
[DRIC-T-6974] 03 p0385 N84-12508
Improving NDE (Non-destructive evaluation) capability through multiple inspection with application to gas turbine engine disks
[AD-A131762] 03 p0385 N84-12509
Inverse born approximation: Exact determination of shape of convex voids
[DE83-017685] 03 p0385 N84-12512
An X-ray radiography study of delamination growth in notched carbon/epoxy laminates
[FFA-TN-1983-29] 03 p0386 N84-12516
Nondestructive evaluation publications, 1981
[PB83-239574] 03 p0386 N84-12517
Microwave nondestructive evaluation of composites
[DE84-001777] 04 p0547 N84-13601
Development of ultrasonic methods for the nondestructive inspection of concrete
[DE83-017923] 04 p0595 N84-13929
Grain structure identification by ultrasound frequency averaging and deconvolution
[AD-A134054] 05 p0653 N84-14294
Recognizing defects in carbon-fiber reinforced plastics
[NASA-TM-76947] 06 p0786 N84-15143
Metals and ceramics research: Processing, properties, and applications
[ORNL-5943] 06 p0796 N84-15187
A new non-destructive and standardless method for the thickness determination of thin films by XRF measurement 06 p0815 N84-15308
Application of induction coil measurements to the study of superalloy hot corrosion and oxidation
[NASA-TM-83560] 07 p0974 N84-16311
Nondestructive measurement of bulk residual stresses
[AD-A134600] 07 p1013 N84-16573
Review of progress in quantitative NDE
[DE84-001906] 07 p1014 N84-16575
A technique for the nondestructive detection of voids and composition anomalies in metal matrix composite wires using X or gamma rays
[AD-A135481] 08 p1132 N84-17359
Quality assurance of heat-fused polyethylene plastic pipe joints, phase 2
[PB84-104942] 08 p1168 N84-17608
Acoustic emission determination of deformation mechanisms leading to failure of naval alloys, volume 1
[AD-A135367] 08 p1171 N84-17626
Acoustic emission determination of deformation mechanisms leading to failure of naval alloys, volume 2
[AD-A135368] 08 p1171 N84-17627
Introduction to acoustic emission
[NASA-TM-77088] 08 p1227 N84-18016
Reflection acoustic microscopy for Micro-NDE
[AD-A136321] 09 p1327 N84-18665
Direct and inverse diffraction problems for QNDE (Quantitative Non-Destructive Evaluation) applications
[AD-A135838] 09 p1327 N84-18666
Testing the authenticity of moldavite by electron microscopy
[NASA-TM-77335] 09 p1343 N84-18773
Thermal diffusivity in thin films measured by noncontact single-ended Pulsed-Laser-Induced thermal radiometry
[AD-A135991] 09 p1396 N84-19116
Methods for nondestructive tests of CFRP laminates 10 p1452 N84-19482
Detection and performance of defects in aluminum coated steels
[DE84-004175] 10 p1461 N84-19545
Techniques for predictive maintenance in industrial installation and failure diagnostic 10 p1503 N84-19824
Ultrasonic transducer arrays for nondestructive testing 11 p1645 N84-20757
A new application of proximity probe measurement on rolling element bearings
[AD-P002679] 11 p1658 N84-20816
Cosmonauts evaluate color results from Elektrotopograf experiment 12 p1774 N84-21569
Laser generation of ultrasound
[AD-A138483] 12 p1821 N84-21870
Ultrasonic inspection of MC2693 strength member assembly weld
[DE84-007084] 12 p1824 N84-21892
Nondestructive ultrasonic investigation of modern fiber reinforced composites
[VTH-LR-382] 12 p1824 N84-21893
A review study of nondestructive test techniques for residual stresses in aircraft transparencies
[AD-A138930] 13 p1930 N84-22555
Non-destructive evaluation of composite materials using ultrasound
[NASA-CR-173416] 13 p1999 N84-22969
Ultrasonic methods to study shadow boundaries of diffracting cracks. Ultrasonic caustics in NDE (Non-Destructive Evaluation)
[AD-A136839] 13 p1999 N84-22970
Assessment of microdamage development during tensile loading of graphite/epoxy laminates
[AD-A139128] 14 p2119 N84-23701
Fatigue damage - strength relationships in composite laminates, volume 2
[AD-A139241] 14 p2120 N84-23704
Application of NDE methods to green ceramics: Initial results
[DE84-006411] 14 p2130 N84-23769
An acoustical imaging system for the inspection of solid rocket motors
[AD-A139482] 14 p2156 N84-23918
Nondestructive Evaluation Technology Working Group report (IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability study)
[AD-A139484] 14 p2156 N84-23919
Ultrasonic inspection of internal defects in castings
[VTT-201] 14 p2156 N84-23920
Application of stress-generated heat in composites to thermographic NDT 15 p2310 N84-24864
Laser diagnostics of materials and chemistry
[DE84-007469] 15 p2339 N84-25043
Nondestructive testing of composite structures
[SNIAS-832-210-108] 16 p2500 N84-26045
Thermal wave imaging for non-destructive evaluation of subsurface cracks in opaque materials 17 p2676 N84-27048
In-situ measurements of alloy oxidation/corrosion/erosion using a video camera and proximity sensor with microcomputer conirol
[NASA-TM-83673] 18 p2813 N84-27859
Application of NDE methods to green ceramics: Initial results
[DE84-010571] 18 p2819 N84-27898
Variable pulse width piezoelectric ultrasonic transducer driver
[AERE-R-11071] 18 p2845 N84-28064
Ultrasonic techniques for the inspection of nuclear components
[BLL-RISLEY-TR-4905-(9091.9F)] 18 p2850 N84-28096

Electromagnetic inspection of wire ropes using sensor arrays
[AD-A141164] 18 p2851 N84-28100
Defects and materials characterization by analysis of ultrasonic signals
[AD-A141160] 18 p2851 N84-28101
A NDT ignition delay predictive tool
20 p3143 N84-29958
Adhesive bond and composite strength screening system developmental study
[FZM-7184] 20 p3161 N84-30073
Holographic FLI for detection of defects
[AD-A142733] 20 p3189 N84-30258
Flaw detection reliability criteria. Volume 1: Methods and results
[AD-A142001] 20 p3199 N84-30320
Qualifications of ultrasonic testing for nuclear inservice inspection applications
[DE84-011699] 20 p3200 N84-30323
Holographic test procedures for the evaluation of complicated material composites (fires)
[BMFT-FB-T-84-096] 21 p3407 N84-31612
Nondestructive testing of bonding by ultrasonic analysis: Preliminary study report proposed investigation program — metal bonding
[CETIM-13-V-010] 21 p3416 N84-31660
Development of shearography for nondestructive testing of highway structure
[PB84-187244] 22 p3565 N84-32577
Time-to-corrosion of reinforcing steel in concrete slabs. Volume 5: Calcium nitrite admixture or epoxy-coated reinforcing bars as corrosion protection systems
[PB84-195239] 22 p3565 N84-32578
Forecasting of high voltage insulation performance: Testing of recommended potting materials and of capacitors
[NASA-TM-85536] 22 p3581 N84-32681
Robotization of dye penetrant inspection: A study of a prototype and its development
[BLL-RISLEY-TRANS-4585-(9091.9)] 22 p3606 N84-32847
Eddy current testing of steam generator tubes
[BLL-RISLEY-TRANS-4584-(9091.9)] 22 p3606 N84-32848
Detection of damage in hydraulic components by acoustic emission techniques
[AD-A143262] 22 p3607 N84-32850
Application of elastic wave scattering theory to the detection and characterization of flaws in structural materials
[DE84-013729] 22 p3607 N84-32852
Non-destructive testing of semiconductors using surface acoustic wave
[AD-A143559] 22 p3664 N84-33228
Non-destructive evaluation techniques, high temperature ceramic component parts for gas turbines
[NASA-TM-77755] 23 p3694 N84-33413
Statistical analyses for nondestructive testing
[AD-A143668] 23 p3758 N84-33821
Mechanical behavior of carbon-carbon composites
[NASA-CR-174767] 24 p3878 N84-34575
Ultrasonic velocity measurement using phase-slope cross-correlation methods
[NASA-TM-83794] 24 p3911 N84-34769

NONEQUILIBRIUM CONDITIONS
Nonlinear waves in nonequilibrium systems of the oscillatory type
[PR-840] 09 p1312 N84-18570
On dynamical formulation of a tethered satellite system with mass transport
[AD-A142312] 19 p2980 N84-28888

NONEQUILIBRIUM FLOW
The NEST chemistry computer program: Operations handbook
[AD-A130215] 01 p0121 N84-10788
Wet steam flow in L. P. turbines — low pressure (LP)
06 p0841 N84-15483
Three-dimensional nonequilibrium viscous shock-layer flow over the Space Shuttle orbiter
13 p1925 N84-22530
Three-dimensional nonequilibrium viscous shock-layer flows over complex reentry vehicles
13 p1927 N84-22543

NONEQUILIBRIUM PLASMAS
The total field in collective bremsstrahlung in a nonequilibrium relativistic beam-plasma system
[AD-A138595] 10 p1585 N84-20391
Theoretical studies of X-ray emission from supernova remnants and other non-equilibrium astrophysical plasmas
[NASA-CR-175394] 10 p1597 N84-20468
Theoretical methods in the calculation of the bremsstrahlung recoil force in a nonequilibrium beam-plasma system
[AD-A142136] 19 p3069 N84-29609

NONEQUILIBRIUM THERMODYNAMICS
A review of nonequilibrium effects and surface catalysis on shuttle heating 01 p0024 N84-10154
Application of solidification theory to rapid solidification processing
[AD-A134132] 05 p0653 N84-14291
Application of solidification theory to rapid solidification processing
[AD-A135982] 09 p1283 N84-18380
Thermofluidynamics of heat pipes
10 p1443 N84-19423
Mechanochemical effects in demineralization and mineralization of bone 23 p3808 N84-34146

NONEUCLIDIAN GEOMETRY
U DIFFERENTIAL GEOMETRY

NONFERROUS METALS
The melting of iron containing reduced amounts of non-ferrous metal impurities
[BLL-M-35209-(5828.4)] 01 p0041 N84-10259
Non-metallic long span aerial cable with optical fibres for the use at 1.3 micrometers 11 p1722 N84-21236
Status of understanding for gear materials
15 p2342 N84-25061
Forging and stamping nonferrous metals. Handbook
[AD-A141689] 21 p3366 N84-31351
Distribution of micro-heterogeneous deformation in O8Yu steel around inclusions during compression
[BLL-M-35641-(5828.4)] 22 p3553 N84-32498
New developments in materials recycling by the US Bureau of Mines 23 p3704 N84-33480
Far north as source of nonferrous metals
24 p3874 N84-34551

NONFLAMMABLE MATERIALS
Development of quantitative infrared analysis for monitoring water and emulsifying agents in fire-resistant microemulsion diesel fuels
[AD-A133242] 06 p0812 N84-15286
Fire and heat resistant laminating resins based on maleimido substituted aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-1] 13 p1953 N84-22697

NONHOMOGENEITY
U INHOMOGENEITY

NONISOTROPIC PLATES
U ANISOTROPIC PLATES

NONISOTROPY
U ANISOTROPY

NONLINEAR EQUATIONS
NT CUBIC EQUATIONS
NT NONLINEAR EVOLUTION EQUATIONS
NT QUADRATIC EQUATIONS
Smooth solutions to a quasi-linear system of diffusion equations for a certain population model
[AD-A129180] 01 p0128 N84-10839
On the superlinear Ambrosetti-Prodi problem
[AD-A130574] 01 p0130 N84-10849
Element Choices for Explicit and Implicit Nonlinear Finite-Element Computation. The Ispra Courses on Structural Dynamics: Lecture notes
[DE83-013041] 01 p0134 N84-10860
Quasi-Newton methods using multiple secant equations
[AD-A131444] 02 p0282 N84-11847
A new algorithm for constrained nonlinear least-squares problems, part 1
[NASA-CR-174480] 02 p0283 N84-11855
TRAN-STAT (statistics for environmental studies) no. 20, May 1982
[DE83-015096] 02 p0285 N84-11871
Computational methods for subsonic and transonic aerodynamic design 03 p0317 N84-12074
Crank-Nicholson difference schemes for solving coupled systems of nonlinear diffusion equations
[IPP-6/223] 03 p0424 N84-12776
Dynasty 2: A nonlinear implicit code for relativistic electron beam tracking studies
[AD-A131592] 03 p0432 N84-12829
On the singularities of certain nonlinear partial differential equations 04 p0575 N84-13787
A Numerov-Galerkin technique applied to a finite element shallow-water equations model with enforced conservation of integral invariants and selective lumping
[CSIR-TWISK-276] 04 p0587 N84-13878
Least squares and domain decomposition methods applied to the numerical solution of nonlinear problems in fluid dynamics 06 p0839 N84-15468
A new numerical method for the transient gas-dyanmic code EVENT
[LA-9504-MS] 06 p0920 N84-15977
Periodic solutions of Lagrangian systems on a compact manifold
[AD-A134557] 07 p1063 N84-16897
Nonlinear partial differential equations and related problems of pade approximations
[AD-A135110] 08 p1218 N84-17948
Nonlinear resonance
[AD-A135117] 08 p1218 N84-17950
Smoothness of bounded solutions of nonlinear evolution equations
[AD-A135294] 08 p1219 N84-17958
Numerical methods for singular perturbation problems
[AD-A134696] 08 p1220 N84-17966
A singular free boundary problem
[AD-A136325] 09 p1373 N84-18967
Applications of natural constraints in critical point theory to boundary value problems on domains with rotation symmetry
[AD-A136404] 09 p1374 N84-18976
Problems solved and unsolved concerning linear and nonlinear partial differential equations
[DE84-004990] 09 p1379 N84-19008
Nonlinear systems in infinite dimensional state spaces
[AD-A136530] 09 p1384 N84-19042
Nonlinear vibrations of plates: A review
10 p1505 N84-19842
Linearization based on least squares approximation with application to finite dimensional system equations
[VTH-LR-364] 10 p1572 N84-20302
Entropy condition satisfying approximations for the full potential equations of transonic flow
[NASA-TM-85751] 11 p1601 N84-20485
Moving finite elements in 1-D: A review of the method and the coding experience
[DE84-004821] 11 p1716 N84-21192
Systems of nonlinear algebraic equations arising in simulation of semiconductors devices
[DE84-006490] 11 p1716 N84-21195
Semigroup associated with a quasi-linear system in which the coupling is linear
[DE84-004227] 11 p1719 N84-21210
Numerical modeling of D-mappings with applications to chemical kinetics
[NASA-TM-84332] 12 p1893 N84-22326
Developments in the theory of nonlinear first-order partial differential equations
[AD-A138020] 12 p1893 N84-22332
Thin sets in nonlinear potential theory
13 p2032 N84-23178
An introduction to geometric programming
[AD-P002962] 14 p2200 N84-24202
Convex integration of non-linear systems of partial differential equations 14 p2210 N84-24271
The numerical calculation of traveling wave solutions of nonlinear parabolic equations on the line
[AD-A139238] 14 p2212 N84-24283
Bifurcation and multiplicity results for nonlinear elliptic problems involving critical sobolev exponents
[AD-A139332] 14 p2219 N84-24315
Routes to optical turbulence in a dispersive ring bistable cavity containing saturable nonlinearities
14 p2234 N84-24404
Theory of multistability in Josephson junction devices
14 p2235 N84-24410
Nonlinear analysis of rectangular glass plates by Galerkin method
[PB84-159649] 15 p2302 N84-24819
High Reynolds number solutions for incompressible viscous flow using the reduced basis technique
15 p2317 N84-24905
Nonlinear equation systems for parabolic differential equations and differential equation systems
16 p2540 N84-26305
Similarity transformations of the Euler equations and their numerical evaluation 16 p2540 N84-26306
A device for the acceleration of convergence of a monotonously enclosing iteration method
16 p2541 N84-26307
Iterative solution of the three-dimensional nonlinear potential equation of the gas dynamcis for ultrasonic flows 16 p2541 N84-26310
Integrating multigrid relaxation into a robust fast-solver for transonic potential flows around lifting airfoils
[NLR-MP-83021-U] 17 p2601 N84-26673
Numerical methods for nonlinear elliptic eigenvalue problems
[DE84-010406] 18 p2926 N84-28558
Nonlinear wave propagation
[AD-A141098] 19 p3004 N84-29038
Asymptotic solutions of dispersive quasi-linear equations
[ISSN-0208-5658] 19 p3081 N84-29552
Nonlinear partial differential equations and related problems of Pade approximations
[AD-A141519] 19 p3085 N84-29578
L infinity stability of an exponentially decreasing solution of the problem Delta u + f(x,u) = o in r(n)
[AD-A141601] 19 p3085 N84-29582
A remark on semilinear perturbations of abstract parabolic equations
[AD-A141695] 19 p3087 N84-29593
Error estimations and adaptive techniques for nonlinearized parametrized equations
[AD-A142041] 19 p3088 N84-29607

Study of nonlinear singular systems
[AD-A142348] 20 p3280 N84-30820
Global solutions for the one-dimensional equations of a viscous reactive gas
[AD-A142931] 21 p3400 N84-31569
Self-adaptive solution strategies
21 p3420 N84-31693
Extending normal mode initialization: A new method
[PB84-196435] 21 p3449 N84-31885
A survey of the methods of MHD analysis of magnetic islands
[DE84-008858] 21 p3502 N84-32197
Nonlinear analysis of Stirling engine thermodynamics
[DE84-013493] 21 p3507 N84-32219
Singularities connected with a trace on a Banach algebra
22 p3634 N84-33034
The well-posedness of the Kuramoto-Sivashinsky equation
[NASA-CR-172431] 22 p3637 N84-33053
Solutions of nonlinear equations of magneto-ionic theory
[ISSN-0208-5688] 23 p3794 N84-34059
Non-existence of global solutions of partial of f(u sub t) with respect to t in two and three space dimensions
[AD-A144692] 24 p3952 N84-35030

NONLINEAR EVOLUTION EQUATIONS
Remarks on the Kuramoto-Sivashinsky equation
[DE84-001018] 04 p0590 N84-13901
Bifurcations in nonlinear problems of hydrodynamic instability of plane parallel shear flows
06 p0831 N84-15411
On the damped nonlinear equation w sub tt = sigma (w) sub xx gamma w sub t
[AD-A142263] 19 p3008 N84-29070
Local and global existence and behavior for t tends to infinity Navier-Stokes equations
[CTH-MATH-1984-08] 23 p3818 N84-34214

NONLINEAR FEEDBACK
Large enhancement of the Sagnac effect based on nonlinearly induced nonreciprocity
[AD-A137080] 10 p1579 N84-20344
Regions of attraction and ultimate boundedness for linear quadratic regulators with nonlinearities
[NASA-TP-2322] 18 p2923 N84-28538

NONLINEAR FILTERS
Nonlinear filter system for image preprocessing
[BMFT-FB-DV-83-001] 02 p0274 N84-11796
Linear and nonlinear filtering and related inverse scattering problems
[AD-A135175] 08 p1219 N84-17954
The nonlinear filtering problem for the unbounded case
[AD-A136501] 09 p1376 N84-18985
Linear and nonlinear filtering and stochastic control
[AD-A142229] 19 p3093 N84-29645
Application of a probabilistic tracking filter: A first evaluation with emphasis on air traffic control. Part 1: Evaluation results
[NLR-TR-82068-U-PT-1] 23 p3692 N84-33397
Application of a probabilistic tracking filter: A first evaluation with emphasis on air traffic control. Part 2: Live traffic samples
[NLR-TR-82068-U-PT-2] 23 p3692 N84-33398

NONLINEAR OPTICS
Investigation of optical fibers for nonlinear optics
[AD-A130656] 01 p0147 N84-10965
Report of significant accomplishments. Joint services electronics program of the Edward L. Ginzton laboratory
[AD-A133360] 07 p0998 N84-16469
Rotational cars application to simultaneous and multiple-point temperature and concentration determination in a turbulent flow
[NASA-CR-3783] 09 p1385 N84-19044
Large enhancement of the Sagnac effect based on nonlinearly induced nonreciprocity
[AD-A137080] 10 p1579 N84-20344
Nonlinear optics: Where do we go from here
[DE84-006028] 11 p1732 N84-21300
Future directions in optical processing
12 p1904 N84-22403
Nonlinear optics with broad-band lasers
[DE84-005769] 12 p1908 N84-22432
Multistability, self-oscillation and chaos in nonlinear optics
14 p2232 N84-24387
Connection between Ikeda instability and phase conjugation
14 p2232 N84-24390
Routes to optical turbulence in a dispersive ring bistable cavity containing saturable nonlinearities
14 p2234 N84-24404
Resonant Frustrated Total Reflection (FTR) approach to optical bistability in semiconductors
14 p2234 N84-24405
Optical hysteresis and bistability in the wave-front conjugation by electrooptic crystals
14 p2234 N84-24406
Theory of resonance-enhanced optical nonlinearities in semiconductors
14 p2234 N84-24407
Room temperature optical nonlinearities in GaAs multiple quantum wells
14 p2235 N84-24408
Optical bistability in nonlinear media an exact method of calculation
14 p2236 N84-24414
Optical bistability based on self-focusing
14 p2237 N84-24424
Optical bistability in four-level nonradiative dyes
14 p2237 N84-24425
Travelling wave bistability
14 p2237 N84-24426
Tunable optical sources
[AD-A140964] 18 p2845 N84-28068
Infrared nonlinear processes in semiconductors
[AD-A141032] 18 p2940 N84-28649
Two novel plasma diagnostics — single mode optical fiber sensors and phase conjugation in nonlinear optics
[DE84-009970] 20 p3305 N84-30990
Investigation of optical fibers for nonlinear optics
[AD-A143565] 22 p3657 N84-33185
Optically nonlinear materials for tunable UV-lasers
[BMFT-FB-T-84-133] 23 p3755 N84-33806
Optical computing research
[AD-A143984] 23 p3825 N84-34258

NONLINEAR PROGRAMMING
Algorithms for nonlinear programming
[AD-A130903] 01 p0122 N84-10796
The use of a beam space representation and nonlinear programming in phase-only nulling
[AD-A131365] 02 p0272 N84-11779
An application of nonlinear programming to the design of regulators of a linear-quadratic formulation
[NASA-CR-172253] 04 p0515 N84-13380
ANSR-3: General purpose computer program for nonlinear structural analysis
[PB83-251330] 05 p0694 N84-14556
Ellipsoid algorithm variants in nonlinear programming
[AD-A132599] 05 p0735 N84-14826
Performance criteria for comparing constrained nonlinear programming codes
[CSIR-TWISK-279] 07 p1053 N84-16822
Convexity and concavity properties of the optimal value function in parametric nonlinear programming
[AD-A136202] 12 p1881 N84-22264
Generalized convexity and concavity properties of the optimal value function in parametric nonlinear programming
[AD-A136220] 12 p1882 N84-22265
Engineering calculations for communications satellite systems planning
[NASA-CR-173532] 14 p2113 N84-23662
An introduction to geometric programming
[AD-P002962] 14 p2200 N84-24202
Subgradient methods in deterministic and stochastic optimization
[AD-A141216] 18 p2926 N84-28556
Special nonlinear optimization techniques
[AD-A141097] 19 p3083 N84-29564

NONLINEAR SYSTEMS
Nonlinear stability control
[DE83-014341] 01 p0082 N84-10532
MAGNA (Materially And Geometrically Nonlinear Analysis). Part 2: Preprocessor manual
[AD-A129025] 01 p0120 N84-10782
MAGNA (Materially And Geometrically Nonlinear Analysis). Part 4. Quick-reference manual
[AD-A129026] 01 p0120 N84-10783
Constrained nonlinear least squares
[AD-A130502] 01 p0132 N84-10662
Nonlinear response and noise transmission of double wall sandwich panels
02 p0187 N84-11215
A nonlinear control law for piloting aircraft in the air-to-ground attack phase
03 p0317 N84-12071
Nonlinear dynamics and control of a vibrating rectangular plate
[NASA-CR-172215] 03 p0388 N84-12528
The effects of small noise on implicitly defined non-linear dynamical systems
[AD-A131632] 03 p0428 N84-12808
Nonlinear force on an unpolarized relativistic test particle to second order in the total field in a nonequilibrium beam-plasma system
[AD-A131631] 03 p0444 N84-12919
Numerical modeling of the MOSBJT
[AD-A132351] 04 p0525 N84-13456
NOSTRUM: A finite element program for nonlinear structural mechanics
[TR-18] 04 p0587 N84-13881
Mathematical models of nonlinear galvanic polarization
[AD-A132403] 04 p0589 N84-13895
Space-time evolution of the nonlinear 2-stream instability
[DE84-001336] 04 p0599 N84-13950
Determining stresses in the presence of nonlinearities in interplanar spacing versus Sin squared Psi
[AD-A132365] 04 p0612 N84-14041
Numerical methods for singularly perturbed differential equations with applications
[AD-A133741] 05 p0734 N84-14821
Identification of nonlinear systems
[RR-232] 05 p0739 N84-14850
The effect of field index fluctuations on the dynamics of a high current electron ring in a modified betatron accelerator
[AD-A133089] 05 p0745 N84-14891
Adaptive signal detection for the optimal communications receiver
[AD-A133498] 06 p0824 N84-15374
Nonlinear analysis of thin shells by the hybrid mixed finite-element method
06 p0856 N84-15578
Nonlinear transformat
[NASA-CR-166506] 06 p0905 N84-15877
Special opportunities in helicopter aerodynamics
[NASA-TM-84398] 07 p0946 N84-16138
The infinite horizon optimal control problem on manifolds
[MC-BW-181/83] 07 p1058 N84-16851
Sea height information from complex SAR data
[NASA-CR-173199] 07 p1060 N84-16872
Optimal estimation with chaotic dynamics
07 p1060 N84-16874
Optimal inference with chaotic dynamics
07 p1060 N84-16875
Algorithm for real time control of non linear systems with application to the control satellite alignment systems
[INPE-2755-PRE/331] 09 p1265 N84-18263
Interpretation of a SAR (Synthetic Aperture Radar) image of the Bay of Biscay
[AD-A135981] 09 p1303 N84-18517
Volterra transfer functions from pulse tests for mildly nonlinear channels
[AD-A135703] 09 p1308 N84-18553
Nonlinear waves in nonequilibrium systems of the oscillatory type
[PR-840] 09 p1312 N84-18570
Nonlinear orbits in free-electron lasers with a linear magnetic wiggler and a strong axial magnetic guide field
[AD-A135984] 09 p1323 N84-18642
On mean Kullback-Leibler's information maximum likelihood principle and uncertain nonlinear systems
[AD-A137222] 10 p1569 N84-20279
Nonlinear dynamic polarization force on a relativistic test particle in a nonequilibrium beam-plasma system
[AD-A136788] 10 p1577 N84-20331
Nonlinear systems approach to control system design
11 p1618 N84-20585
Measurements on and with non-linear systems: Problems and approaches
[AD-P002673] 11 p1657 N84-20810
Instrument failure detection in nonlinear systems
[DE84-005306] 11 p1661 N84-20838
Design of array processor software for nonlinear structural analysis
[AD-A137767] 11 p1706 N84-21124
Minimax solution of a nonlinear system of mixed equalities and inequalities
[DE84-003870] 11 p1709 N84-21137
Linear or nonlinear wave problems with input sets
[AD-A137811] 11 p1714 N84-21177
Numerical schemes for a model for nonlinear dispersive waves
[NASA-CR-175416] 11 p1714 N84-21179
New exact solutions in non-linear elasticity
[AD-A137928] 11 p1715 N84-21181
Research in stochastic processes
[AD-A137736] 11 p1717 N84-21202
Simultaneous analysis and design
[NASA-CR-172334] 12 p1826 N84-21902
Generation of surface-fitted coordinate grids
12 p1871 N84-22194
A 2-step bilinear filtering approximation
[AD-A138350] 12 p1894 N84-22338
Research in the field of fluid mechanics, with emphasis on non linear waves and diffraction of linear wave
[AD-A138378] 12 p1916 N84-22485
Hybrid perturbation/Bubnov-Galerkin technique for nonlinear thermal analysis
[NASA-TP-2145] 13 p1988 N84-22907
Nonlinear/transient rotor dynamics analysis
13 p2000 N84-22977
On nonlinear systems and algebraic geometry
[RR-240] 13 p2034 N84-23196
Real-time implementation of nonlinear optical processing functions
[AD-A138843] 13 p2043 N84-23256
Research agenda in non-linear decision systems
[PB84-161207] 14 p2187 N84-24102

Non-linear multidimensional models, least squares and reduced residuals
[AD-P002950] 14 p2196 N84-24190
Remarks on the Ambrosetti-Prodi problem
[AD-A139237] 14 p2212 N84-24282
On the Taylor approximation of control systems
[AD-A139255] 14 p2212 N84-24285
Local asymptotic approximation of nonlinear control systems
[AD-A139260] 14 p2213 N84-24288
An approximate Newton method for coupled nonlinear systems
[AD-A139589] 14 p2214 N84-24300
Nonlinear optical interfaces 14 p2233 N84-24396
The NMR laser: A nonlinear solid state system showing chaos 14 p2239 N84-24440
Investigation of nonlinear optical properties of semiconductors
[AD-A139227] 14 p2242 N84-24459
On the stability of flight vehicles in the low Reynolds number non-linear regime
[AD-A140008] 15 p2258 N84-24561
Nonlinear least squares regression using STAR-PAC: The standards time series and regression package
[PB84-166214] 15 p2394 N84-25365
Development of new electro-optic and acousto-optic materials
[AD-A139946] 15 p2408 N84-25453
Nonlinear problems in flight dynamics
[NASA-TM-85940] 16 p2439 N84-25648
Robustness quantification for nonlinear sampled-data systems with dynamic multiplicative perturbations 16 p2476 N84-25871
A nonlinear model of laminated plate, using combined variables 16 p2476 N84-25875
Implicit time dependent methods for the solution of the Euler equations 16 p2492 N84-25989
Modelling with integer variables
[AD-A140212] 16 p2549 N84-26363
Cross-spectral analysis of atmospheric pressure microfluctuations and low-frequency sea level changes 17 p2699 N84-27196
The stability and dynamics of elastic structures and fluid flows
[AD-A141206] 18 p2837 N84-28006
Least squares parameter estimation algorithms for nonlinear systems
[RR-225] 18 p2923 N84-28536
Regions of attraction and ultimate boundedness for linear quadratic regulators with nonlinearities
[NASA-TP-2322] 18 p2923 N84-28538
Optimal and suboptimal estimation of nonlinear stochastic systems
[AD-A140929] 18 p2925 N84-28546
Nonlinear perturbations of dynamical systems and nonlinear controllability
[RR-249] 18 p2926 N84-28560
Influence of microturbulence on early time HANE structure
[AD-A141244] 18 p2933 N84-28597
Basic EMC (electromagnetic compatibility) technology advancement for c3 systems. Volume 1: A nonlinear macromodel of the bipolar integrated circuit operational amplifier for electromagnetic interference analysis
[AD-A141369] 19 p3004 N84-29040
Present-day problems in identification of dynamic systems: A review
[ISSN-0208-5658] 19 p3062 N84-29555
The cauchy problem in one-dimensional nonlinear viscoelasticity
[AD-A141507] 19 p3084 N84-29576
Global existence of classical solutions to the equations of motion for materials with fading memory
[AD-A141607] 19 p3085 N84-29584
Nonlinear observability and mixed-coordinate bearing-only signal processing
[AD-A141824] 19 p3088 N84-29603
Research in the areas of stochastic control under partial observations, nonlinear filtering, large deviations for nearly deterministic processes, and transition and invariant densities for nearly deterministic diffusions
[AD-A142191] 19 p3115 N84-29791
Europe approaches chaos with electrical circuits
[AD-A142085] 20 p3177 N84-30179
Large-signal characterization of nonlinear two-port active networks
[AD-A142462] 20 p3178 N84-30184
Techniques for large sparse systems arising from continuation methods
[DE84-010410] 20 p3262 N84-30633
Input-output parametric models for nonlinear systems. Part 1: Deterministic nonlinear systems
[RR-251-PT-1] 20 p3263 N84-30644
Input-output parametric models for nonlinear systems. Part 2: Stochastic nonlinear systems
[RR-252-PT-2] 20 p3263 N84-30645
Nonlinear dynamics of magnetic islands with curvature and pressure
[DE84-010968] 20 p3285 N84-30859
The influence of the relativistic character of the electron HF motion on the non-linear wave dynamics in plasmas
[IPPJ-676] 20 p3301 N84-30964
An adaptive attitude controller for terrestrial artificial satellites
[INPE-3186-PRE/551] 21 p3349 N84-31243
Transition bifurcation branches in non-linear water waves
[CAR-8418] 21 p3398 N84-31556
Nonlinear theory of the free-electron laser
[INPE-3193-PRE/557] 21 p3409 N84-31618
The response of nonlinear structures to random excitation 21 p3418 N84-31678
Nonlinear displacement analysis of advanced propeller structures using NASTRAN
[NASA-TM-83737] 21 p3419 N84-31683
Nonlinear Structural Analysis
[NASA-CP-2297] 21 p3419 N84-31688
Slave finite elements: The temporal element approach to nonlinear analysis 21 p3420 N84-31689
A shear deformable shell element for laminated composites 21 p3420 N84-31691
Nonlinear finite element analysis of shells with large aspect ratio 21 p3420 N84-31692
Element-by-element solution procedures for nonlinear structural analysis 21 p3420 N84-31694
Interactive finite elements for general engine dynamics analysis 21 p3421 N84-31698
Nonlinear analysis for high-temperature composites: Turbine blades/vanes 21 p3421 N84-31699
User's guide: Computer program for analysis of two-dimensional beam-columns with nonlinear supports (CBNTBM)
[AD-A143170] 21 p3466 N84-31974
PLTMGC: A multi-grid continuation program for parameterized nonlinear elliptic systems
[DE84-010406] 21 p3474 N84-32017
Thermally induced instabilities of two-layer fluid systems 22 p3592 N84-32745
Nonlinear elastic stability analysis of plane frames 22 p3607 N84-32853
Simple examples of non linear truss behavior
[AD-A143368] 22 p3611 N84-32882
Static methods in the design of nonlinear automatic control systems
[AD-A143297] 22 p3644 N84-33101
Symbolic dynamics and nonlinear semiflows
[AD-A143487] 22 p3646 N84-33117
Group-kinetic scaling as a basis for modeling large scale turbulence 24 p3926 N84-34848
On parameter identification and state estimation for distributed parameter systems
[INPE-3236-PRE/585] 24 p3949 N84-35004
Spline and weighted random directions method for nonlinear optimization
[AD-A144217] 24 p3950 N84-35012
Analysis and regulation of nonlinear and generalized linear systems
[AD-A144671] 24 p3952 N84-35029
Advanced studies of integrable systems
[AD-A144122] 24 p3959 N84-35069

NONLINEARITY

A dynamic model for aircraft poststall departure 01 p0012 N84-10077
Studies of collisional and nonlinear radiative processes for development of coherent UV and XUV sources
[AD-A131837] 03 p0379 N84-12467
Some bifurcation topics in non-linear elastostatics 03 p0387 N84-12524
Computational synergetics and innovation in wave, vortex, and plasma cloud dynamics
[DE83-015252] 03 p0445 N84-12928
Magnetohydrodynamic turbulence in the solar wind 03 p0467 N84-13073
Alfven solitons in the solar wind 03 p0467 N84-13075
Nonlinear acoustics in a dispersive continuum: Random waves, radiation pressure, and quantum noise 04 p0594 N84-13920
Observations of nonlinear behavior in a low-pressure discharge column
[AD-A132321] 04 p0605 N84-13996
Nonlinear kinetic theory of a single helicity tearing instability
[DE84-000049] 04 p0610 N84-14024
Loop coalescence in flares and coronal X-ray brightening
[DE83-013070] 04 p0621 N84-14099
Nonlinear oscillations of a fluttering panel in a transonic airstream
[AD-A133918] 05 p0627 N84-14124
A simplified method for elastic-plastic-creep structural analysis
[NASA-TM-83509] 05 p0692 N84-14542
Geometrically nonlinear analysis of layered anisotropic plates and shells 05 p0695 N84-14562
Nonlinear inverse perturbation method in dynamic redesign 06 p0779 N84-15107
User's manual for GAMNAS: Geometric and Material Nonlinear Analysis of Structures
[NASA-TM-85734] 06 p0798 N84-15200
Nonlinear viscoelastic characterization of structural adhesives
[NASA-CR-172279] 06 p0809 N84-15268
Propellant nonlinear constitutive theory extension: Preliminary results
[AD-A133364] 06 p0812 N84-15287
A periodically forced piecewise linear oscillator 06 p0856 N84-15577
Theoretical and software considerations for nonlinear dynamic analysis
[NASA-CR-174504] 06 p0858 N84-15589
Site-dependent inelastic response spectra 06 p0862 N84-15620
Acoustic shocks in a variable area duct containing near sonic flows
[NASA-CR-172274] 06 p0908 N84-15897
Nonlinear interaction of toroidicity induced drift modes
[DE84-001582] 06 p0921 N84-15987
A study of accretion in compact sources: Disk precession and jet helicity 06 p0929 N84-16038
On the model equations which describe nonlinear wave motions in a rotating fluid
[AD-A134556] 07 p1002 N84-16499
Large deformation analysis of a cylindrical shell under pure bending and pressurization 07 p1015 N84-16582
Nonlinear bending and collapse analysis of a poked cylinder and other point-loaded cylinders
[DE84-001853] 07 p1017 N84-16595
Aeroelastic analysis using nonlinear aerodynamic methods
[AD-A135133] 08 p1099 N84-17146
Nonlinear geometric, material and time dependent analysis of reinforced concrete shells with edge beams
[PB84-104454] 08 p1173 N84-17639
Review of radio-frequency, nonlinear effects on the ionosphere
[DE84-003832] 08 p1188 N84-17739
Efficient finite element methods for transient nonlinear analysis of shells
[AD-A136044] 09 p1333 N84-18701
Applications of natural constraints in critical point theory to boundary value problems on domains with rotation symmetry
[AD-A136404] 09 p1374 N84-18976
A nonlinear eigenvalue problem modelling the avalanche effect in semiconductor diodes
[AD-A136368] 09 p1394 N84-19106
Nonlinear modeling and initial condition estimation for identifying the aerothermodynamic environment of the Space Shuttle Orbiter
[AD-A136928] 10 p1438 N84-19391
The Shock and Vibration Digest, volume 15, no. 6
[AD-A131730] 10 p1505 N84-19841
Nonlinear vibrations of plates: A review 10 p1505 N84-19842
Dynamic simulation of structural systems with isolated nonlinear components 10 p1510 N84-19885
An experimental hybrid model for a bilinear hysteretic system 10 p1514 N84-19910
Nonlinear coupling responses to variable frequency excitations 10 p1515 N84-19920
Stationary and non-stationary nonlinear optical spectroscopy on surface polaritons
[NASA-TM-77388] 10 p1578 N84-20340
Grid flexibility and patching techniques 11 p1610 N84-20540
Relaxation, regularity and operator theoretical methods for a class of problems in nonlinear elastostatics 11 p1666 N84-20871
Development of a simplified procedure for cyclic structural analysis
[NASA-TP-2243] 11 p1667 N84-20878
Nonlinear analysis of thin-walled I-sections in bending
[PB84-137918] 11 p1669 N84-20890
Minimax methods for indefinite functionals
[AD-A137953] 11 p1716 N84-21190
Nonlinear trapped electron response for drift wave turbulence in Tokamaks
[DE84-005385] 11 p1737 N84-21335
Dynamical threshold behavior of a sliding charge density wave
[DE84-004304] 11 p1745 N84-21389
Computational aspects of the nonlinear normal mode initialization of the GLAS 4th order GCM 12 p1853 N84-22071

Forced stationary solutions in a barotropic channel: Multiple equilibria and theory of nonlinear resonance
12 p1856 N84-22089
Linear and nonlinear finite elements
[AD-A136468] 12 p1895 N84-22341
Galerkin's method and stabilization method for variable type equations
[PREPRINT-789] 12 p1895 N84-22346
Investigation of non-linear estimation of natural resonances in target identification
[AD-A139027] 13 p1984 N84-22878
A discrete-element analysis for large deflection of thin plates: A combined effect of geometric and material nonlinearities 13 p2003 N84-22995
Finite element analysis of wrinkling membranes
[NASA-CR-172325] 14 p2158 N84-23926
Residuals in nonlinear regression
[AD-A139309] 14 p2218 N84-24311
Simulations of the dynamics of optical bistability with fluctuations 14 p2236 N84-24421
Theory of optical bistability in collinear degenerate four-wave mixing 14 p2238 N84-24434
Non-linear Fabry-Perot transmission in A CdHgTe etalon 14 p2239 N84-24437
Nonlinear analysis of laminated, bimodular composite material structures
[AD-A139942] 15 p2285 N84-24714
Survival probability of non-linear oscillators subjected to broad-band random disturbances
15 p2312 N84-24875
Nonlinear vibrations of a rubber support system constrained by a fixed surface 15 p2313 N84-24878
The 6th International Conference on Computing Methods in Applied Sciences and Engineering
[AD-A139824] 15 p2317 N84-24906
A study of the different solution methods for nonlinear problems
[ISD-304] 15 p2396 N84-25376
Element-by-element solution procedures for nonlinear transient heat conduction analysis
16 p2494 N84-26000
Non-linear transient response of flat plate to air shock wave
[AD-A140491] 16 p2503 N84-26063
The nonlinear viscoelastic response of resin matrix composite laminates
[NASA-CR-3772] 17 p2617 N84-26750
Peculiarities of minimization of mixer noise factor
17 p2635 N84-26856
Two-stage regenerative microwave amplifiers with reduced nonlinear distortions 17 p2638 N84-26878
Effect of nonhomogeneity on nonlinear stabilization of acoustic vibrations in heat emitting medium within bounded volume 17 p2646 N84-26926
Integrated analysis and design of steel frames with interactive computer graphics 17 p2677 N84-27049
Nonlinear growth of perturbations in an Einstein-De Sitter cosmology 17 p2776 N84-27624
A computer program for predicting nonlinear uniaxial material responses using viscoplastic models
[NASA-TM-83675] 19 p3034 N84-29247
The effect of aggregation in nonlinear regression
[AD-A141728] 19 p3087 N84-29597
Topics in large sparse nonlinear optimization
[DE84-008933] 19 p3090 N84-29620
Analysis of the influence of nonlinear and dissipative effects in atmospheric plasma
[ISSN-0208-5658] 19 p3106 N84-29732
A tractable theory for nonlinear propellant response and cumulative damage predictions
20 p3142 N84-29950
Nonlinear structural characterization of solid propellants 20 p3142 N84-29951
Locally optimum and suboptimum detector performance in a non-Gaussian interference environment
[PB84-184736] 20 p3176 N84-30173
The Shock and Vibration Digest, volume 16, no. 7
[AD-A143958] 21 p3418 N84-31679
Vibrations and stability of mechanical systems, 3
21 p3419 N84-31681
Globally convergent procedures for solving nonlinear minimization problems
[AD-A142905] 21 p3473 N84-32009
Research in nonlinear motion
[AD-A143000] 21 p3473 N84-32013
Nonlinear dynamics in excitable nerve membranes
21 p3477 N84-32037
Nonlinear dynamics of resonance-type instability in high-density electron beam: Analytical solution
21 p3483 N84-32074
Cooling of semiinfinite body under conditions of nonlinear heat transfer at surface
21 p3483 N84-32075
Sequential method of minimizing nonlinear function on simplex 21 p3484 N84-32080
Investigation of statistical characteristics of random signals in nonlinear medium 21 p3485 N84-32086
Propagation of nonlinear compression pulses through granular media 21 p3489 N84-32108
Utilization of nonlinear properties of IMPATT-diodes in microwave devices (survey) 22 p3569 N84-32603
Video noise reduction
[BBC-RD-1984/7] 22 p3571 N84-32615
Simulation of the Kelvin-Helmholtz instability of a supersonic slip surface with the Piecewise-Parabolic Method (PPM)
[DE84-013219] 22 p3595 N84-32768
Behavior of orbits of two coupled oscillators
[DE84-013379] 22 p3659 N84-33197
Infrared nonlinear optics 22 p3662 N84-33346
Analysis of instability-related growth of a through-width delamination
[NASA-TM-86301] 23 p3711 N84-33524
Description and prediction of transition in two-dimensional, incompressible flow
23 p3748 N84-33758
Nonlinear effects in hydrodynamic stability
23 p3748 N84-33762
Adaptive control with variable dead-zone nonlinearities
[NASA-CR-173980] 24 p3948 N84-35001

NONNEWTONIAN FLOW

On the structure of rotational instabilities in non-Newtonian fluids 15 p2315 N84-24892
On numerical methods in non-Newtonian flows
[DE84-701276] 24 p3899 N84-34691

NONNEWTONIAN FLUIDS

Fundamentals of non-Newtonian liquid flow on surfaces
[AD-A135543] 08 p1158 N84-17541
Initial value problems for viscoelastic liquids
[AD-A136425] 09 p1375 N84-18980
The status of the simple fluid
15 p2314 N84-24886
Flow and free surface of a non-Newtonian fluid between concentric cylinders maintained at unequal temperatures
15 p2315 N84-24893
On numerical methods in non-Newtonian flows
[DE84-701276] 24 p3899 N84-34691

NONPARAMETRIC STATISTICS

Nonparametric estimation by the method of sieves
[AD-A131394] 02 p0264 N84-11883
Multivariate density estimation and remote sensing
03 p0393 N84-12580
Asymptotic maximal deviation of m-smoothers
[AD-A131906] 03 p0427 N84-12799
Weighted nonparametric tail estimation procedures
[DE83-017870] 03 p0428 N84-12804
Adaptive spectral smoothing
[AD-A132574] 04 p0588 N84-13887
Time series long memory identification and quantile spectral analysis
[AD-A132240] 04 p0590 N84-13900
A law of the iterated logarithm for non-parametric regression function estimators
[AD-A133260] 06 p0901 N84-15847
On jackknifing kernel regression function estimators
[AD-A133236] 06 p0904 N84-15867
Estimation of posterior probabilities using multivariate smoothing splines and generalized cross-validation
[AD-A134518] 07 p1062 N84-16884
Nonparametric selection procedures for a two-way layout problem
[AD-A135385] 08 p1220 N84-17962
Research on nonparametric methods for linear models
[AD-A135850] 09 p1377 N84-18992
Aspects of pattern theory
[AD-A136506] 09 p1381 N84-19022
Estimation and reconstruction for stochastic processes and deterministic functions
[AD-A136571] 09 p1382 N84-19024
Comparative study of period determination methods
09 p1410 N84-19216
Self and cross tests of astronomical hypothesis and optimal cutoff bias-free nonparametric estimation
09 p1412 N84-19234
Nonparametric statistics test software package
[AD-A137170] 11 p1708 N84-21132
Nearly optimal detection of signals in non-Gaussian noise
[AD-A138657] 13 p1983 N84-22872
On the Lehmann power analysis for the Wilcoxon Rank Sum Test
[AD-P003844] 24 p3939 N84-34932
Information-theoretic non-parametric unimodal density estimation
[AD-A144522] 24 p3953 N84-35035

NONPOINT SOURCES

Locating and estimating air emissions from sources of chloroform
[PB84-200617] 22 p3619 N84-32935

NONREFLECTION

U ENERGY ABSORPTION

NONRELATIVISTIC MECHANICS

Energy conserving nonrelativistic guiding center mechanics and the Galilean principle of relativity
[IPP-6/219] 02 p0286 N84-11878
Hypersonic static and dynamic stability. Part 1: Equations of motion and flight dynamics
16 p2441 N84-25663

NONRIGIDITY

U FLEXIBILITY

NONSTABILIZED OSCILLATION

Nonstationary resonance oscillations
10 p1506 N84-19648
Empirical and analytical study of instabilities in hybrid optical bistable systems 14 p2236 N84-24416
Interaction of air shock waves and porous shield
17 p2645 N84-26922

NONSYNCHRONIZATION

Dynamic behavior of nonuniform tire/wheel assemblies
[PB84-125541] 08 p1167 N84-17598

NONUNIFORM FLOW

Mathematical modeling of longitudinal profile adjustment in alluvial streams 21 p3425 N84-31726
Morse theory for flows in presence of a symmetry group
[AD-A144661] 24 p3952 N84-35026

NONUNIFORM PLASMAS

Dynamically accelerated superthermal electrons in microwave plasma interaction
[IPPJ-648] 10 p1580 N84-20354
The kinetic equation in an imperfect ionized plasma
[IPPJ-656] 11 p1734 N84-21308
Possibility of extending Kirchhoff's approximation to problems of wave diffraction by transparent nonhomogeneous bodies 18 p2822 N84-27920

NONUNIFORMITY

Dynamic behavior of nonuniform tire/wheel assemblies
[PB84-125541] 08 p1167 N84-17598
Possible interpretation of discrepancy in results of absolute gravity determination at Sevres
17 p2703 N84-27215

NONVISCOUS FLOW

U INVISCID FLOW

NORMAL DENSITY FUNCTIONS

Rejection of multivariate outliers
[AD-A130686] 01 p0133 N84-10870
Mixture models for dependent observations
03 p0393 N84-12562
Rates of convergence of Gaussian quadrature for singular integrands
[CSIR-TWISK-268] 07 p1059 N84-16865
A note on the ratio of positively correlated gamma variates 10 p1573 N84-20305
Ultrasonic transducer with Gaussian radial pressure distribution
[NASA-CASE-LAR-12967-1] 13 p1993 N84-22932
An interpolation type inequality for a discrete weighted norm
[CTH-MATH-1983-30] 13 p2037 N84-23213
On the relationship between Gaussian and binomial models for image registration by sequential tests of hypotheses
[INPE-3047-PRE/470] 16 p2548 N84-26350
Use of fiber light guides for evaluation of precision characteristics of pulsed laser range finders
17 p2637 N84-26870
A method for constructing a unimodal inferential or prior distribution
[AD-A141389] 19 p3083 N84-29586
A new method of evaluating normal and t-tail areas
[AD-P003842] 24 p3939 N84-34930

NORMAL DISTRIBUTIONS

U NORMAL DENSITY FUNCTIONS

NORMAL FORCE DISTRIBUTION

U FORCE DISTRIBUTION

NORMAL SHOCK WAVES

Interaction between a shock-wave and a vortex flow
03 p0321 N84-12104
Interaction of a turbulent boundary layer with a normal shock wave followed by an adverse pressure gradient
[ARL-MECH-ENG-REPT-161] 07 p1000 N84-16487

NORMALITY

Discrimination relative to measures of non-normality
03 p0393 N84-12566
Stabilization of solutions for a class of parabolic integro-differential equations
[AD-A132821] 05 p0736 N84-14837
Diffusion on viscous fluids, existence and asymptotic properties of solutions
[AD-A134538] 07 p1063 N84-16891
Approximations for expected values of normal order statistics with an application to goodness-of-fit
[AD-A139970] 15 p2400 N84-25401

Age effects on active duty Army MMPI (Minnesota Multiphasic Personality Inventory) profiles
[AD-P003943] 18 p2911 N84-28464
Extending normal mode initialization: A new method
[PB84-196436] 21 p3449 N84-31885
Robust C(Alpha)-type tests for linear models
[AD-A143177] 22 p3648 N84-33125
Investigation of an empirical probability measure based test for multivariate normality
[DE84-012626] 22 p3649 N84-33135

NORMALIZING (STATISTICS)
Renormalized action improvements
[DE84-011810] 20 p3311 N84-31028

NORTH AMERICA
Estimation of North America anthropogenic sulfur deposition as a function of source/receptor separation
[DE84-003638] 08 p1182 N84-17701
Acid deposition: Atmospheric processes in eastern North America, a review of current scientific understanding
[PB84-173095] 16 p2526 N84-28220
Seasonal climate scenarios for Europe and North America in a high-CO2, warmer world
[DOE/EV-10098/5] 23 p3801 N84-34104

NORTH AMERICAN AIRCRAFT
NT B-1 AIRCRAFT
NT T-2 AIRCRAFT

NORTH ATLANTIC TREATY ORGANIZATION (NATO)
Rationalization, standardization and interoperability: Protecting US interests in the process
[AD-P002814] 13 p2060 N84-23350
AGARD index of publications, 1980-1982
[ISBN-92-835-1462-9] 14 p2248 N84-24502
Calendar of AGARD technical meetings 1984
14 p2252 N84-24526
Calendar of selected aeronautical and space meetings
[AGARD-CAL-84/1] 21 p3527 N84-32341

NORTH CAROLINA
Geologic map and mineral resources summary of the Farmer Quadrangle, Tennessee and North Carolina
[DE83-002866] 02 p0240 N84-11576
Structure of the Brevard Zone and Blue Ridge near Lenoir, North Carolina, with observations on oblique crenulation cleavage and a preliminary theory for irrotational structures in shear zones
13 p2014 N84-23067
The use of linear feature detection to investigate Thematic Mapper data performance and processing
20 p3210 N84-30393
The Quaternary history and stratigraphy of the Cape Fear River valley, North Carolina
21 p3436 N84-31815

NORTH DAKOTA
Water resources data for North Dakota: Water year, 1982
[PB84-136589] 10 p1528 N84-20008

NORTH SEA
Marine remote sensing activities of the Joint Research Center, Ispra, Italy 03 p0396 N84-12586
Satellite remote sensing, environmental monitoring and the offshore oil and gas industries
03 p0398 N84-12603
Application of remote sensing for studies, mapping and forecasting of eddies on the Norwegian continental shelf
03 p0399 N84-12605
Validation of SEASAT-1 altimetry using ground truth in the North Sea region
[SER-B-283-MITT-166] 08 p1179 N84-17681
Panel 2A: Offshore oil and gas technology assessment 18 p2866 N84-28196

NORTHERN HEMISPHERE
NT ARCTIC REGIONS
Wind-speed extremes in the Northern Hemisphere, 30 through 60 km
[AD-A132019] 03 p0410 N84-12682
The causation and variability of the northern winter quasi-stationary planetary waves
06 p0677 N84-15705
Are Northern Hemisphere tropospheric ozone densities larger?
[INPE-2910-PRE/423] 07 p1031 N84-16691
Kinetic energy in the northern hemisphere during the FGGE (First GARP Global Experiment) year
[AD-A135382] 08 p1190 N84-17759
Spatial and temporal distribution of Northern Hemisphere snow cover
[PB84-116346] 09 p1350 N84-18819
FGGE level 3-B daily global analyses, part 3
[PB84-136854] 10 p1541 N84-20101
On the onset of the planetary scale monsoon
11 p1684 N84-20986
Two contrasting Northern Hemisphere winters: 1980 - 1981 and 1981 - 1982 12 p1855 N84-22067
Long-term dynamical stability and transition in a spectral model 12 p1856 N84-22094
Documentation for the machine-readable version of the Survey of the Astrographic Catalogue From 1 to 31 Degrees of Northern Declination (Fresneau 1963)
[NASA-TM-85569] 13 p2071 N84-23421
The impact of scatterometer wind data on global weather forecasting 17 p2720 N84-27314
Temperature response of cryosphere area in northern hemisphere 18 p2856 N84-28136
The use of satellite observed cloud patterns in Northern Hemisphere 300 mb and 1000/300 mb numerical analysis
[AD-A141215] 18 p2869 N84-28340
Spatial distribution of advective heat influxes in atmosphere over Northern Hemisphere and its relationship to heat influxes from ocean 20 p3223 N84-30482

NORTHERN SKY
A search for radio pulsars in the Northern sky: Discovery of a pulsar in a unique binary system
03 p0462 N84-13040

NORTHROP AIRCRAFT
NT F-18 AIRCRAFT
NT T-38 AIRCRAFT

NORWAY
The Norwegian Seismic Array (NORSAR). Phase 3
[AD-A134038] 06 p0678 N84-15713

NOSE CAPS
U NOSE CONES

NOSE CONES
NT ROCKET NOSE CONES
Experimental studies of boundary layer transition on a spinning and non-spinning axisymmetric body
01 p0002 N84-10014
A generalized solution technique for the parabolized Navier-Stokes equations 02 p0173 N84-11137
Enhancement of the CAVE computer code — aerodynamic heating package for nose cones and scramjet engine sidewalls
[NASA-CR-3731] 04 p0532 N84-13501
Computational modeling of aerodynamic heating for XM797 nose cap configurations
[AD-A133884] 05 p0627 N84-14126
The drag of magnetically suspended wind-tunnel models with nose-cones of various shapes
[NASA-TM-77325] 07 p0946 N84-16137
Development of the parachute recovery system for the LBRV-2 reentry vehicle
[DE84-001540] 12 p1766 N84-21518
Wind tunnel tests on a tube-launched missile configuration with a deflectable nose control and a novel wrap-around fin stabilizer
[AD-A142062] 20 p3134 N84-29600
Aerodynamic heating computations for projectiles. Volume 1: In-depth heat conduction modifications to the ABRES shape change code (BRLASCC)
[AD-A143252] 22 p3531 N84-32359

NOSE TIPS
Navier-Stokes computational study of the influence of shell geometry on the Magnus effect at supersonic speeds
[AD-A130630] 01 p0079 N84-10516
Boundary-layer trip effectiveness and computations of aerodynamic heating for XM797 nose-tip configurations
[AD-A126036] 07 p0947 N84-16148
Assessment of real gas effects on the prediction of the aerodynamics of high velocity Army shells
[AD-A134739] 06 p1099 N84-17150

NOSE WHEELS
FOD (Foreign Object Damage) generation by aircraft tires — probability of engine ingestion and airfield surface movements
[AD-A133319] 06 p0786 N84-15146
Safety recommendation: Cessna Model 402C airplane, September 5, 1983, Tampa International Airport, Tampa, Florida 16 p2444 N84-25680

NOSES (FOREBODIES)
NT NOSE CONES
NT ROCKET NOSE CONES
The movement of water droplets in clouds around the nose of an atmospheric research aircraft
[NASA-TM-77358] 07 p1001 N84-16491

NOTATION
U CODING

NOTCH SENSITIVITY
Hydrogen effects on cleavage fracture in fully pearlitic 1080 steel 17 p2821 N84-26778

NOTCH STRENGTH
Numerical determination of the effects of boundary conditions on the instability of composite panels with cutouts
[AD-A136772] 10 p1517 N84-19931
Investigation of acoustic emission during fracture toughness testing of chevron-notched specimens
[AD-A141315] 18 p2814 N84-27865
A review of chevron-notched fracture specimens
[NASA-TM-85797] 23 p3760 N84-33834

NOTCH TESTS
NT CHARPY IMPACT TEST
Fatigue life analysis and tensile overload effects with high strength steel notched specimens
[AD-A136065] 09 p1284 N84-18384
Comparison of fatigue life prediction based on local strains and nominal stresses respectively --- metal fatigue
[LBF-FB-169(183)] 10 p1518 N84-19937
Implementation of Nisitani's body force method for the solution of notch problems
[AD-A137690] 11 p1668 N84-20881
Comparison of the stress concentration factor of a hole near a circular edge notch with an engineering estimate
[AD-A137691] 11 p1668 N84-20882
Shear-lag analysis of notched laminates with interlaminar debonding
[NASA-CR-3798] 14 p2119 N84-23697
Draft standard method of test for plane-strain stress-corrosion-cracking resistance of metallic materials in marine environments
[AD-A139752] 15 p2297 N84-24785
Mode 2 fatigue crack growth specimen development
[NASA-TM-83722] 19 p3034 N84-29248
Residual strength of five boron/aluminum laminates with crack-like notches after fatigue loading
[NASA-CR-3915] 21 p3357 N84-31290
Fracture surface characteristics of notched anglepliied graphite/epoxy composites
[NASA-TM-83786] 23 p3711 N84-33522

NOTCHED METALS
U NOTCH TESTS

NOTCHES
Bending elasticity of circularly notched bars as monolithic flexure hinges in precision mechanisms
[DE84-002199] 06 p0661 N84-15612
Numerical determination of the effects of boundary conditions on the instability of composite panels with cutouts
[AD-A136772] 10 p1517 N84-19931
Delamination growth in notched graphite/epoxy laminates under compression fatigue loading
[FFA-TN-1983-57] 15 p2284 N84-24713
Fracture modes in notched anglepliied composite laminates
[NASA-TM-83802] 24 p3878 N84-34576

NOVA
Flow visualizations, velocity measurements, and surface convection measurements in simulated 20.8-cm Nova box amplifier cavities
[DE84-004354] 10 p1501 N84-19812

NOVA LASER SYSTEM
The Nova laser assurance-management system
[DE83-018188] 04 p0542 N84-13568
Mechanical construction of the 22 Nova laser
[DE84-005432] 11 p1663 N84-20855
NOVA Laser facility for inertial confinement fusion
[DE84-004190] 11 p1737 N84-21332
Nova laser alignment control system
[DE84-010992] 20 p3194 N84-30268
Bond graph time simulations using extracted modal parameters from the Nova spaceframe
[DE84-010918] 20 p3273 N84-30779
Strategies of design, development and activation of the Nova control system
[DE84-013075] 22 p3600 N84-32801
Dynamic testing of NOVA laser structural systems. The north side of Spaceframe Tower
[DE84-014830] 22 p3602 N84-32816

NOVAE
NT DWARF NOVAE
Boundary layers in cataclysmic variables: The HEAO-1 X-ray constraints
[NASA-TM-85112] 03 p0483 N84-13048
Nova Aquilae 1982: The nature of its dust
16 p2572 N84-26504
The effect of radiation pressure in nova ejecta
17 p2777 N84-27629
Nova Aquilae 1982: The nature of its dust
18 p2950 N84-28703
UV and optical spectroscopy of classical novae during outburst 24 p3979 N84-35202
UV and optical observations of the novalike object V3885 SGR 24 p3979 N84-35207

NOWCASTING
World Weather Watch Planning report no. 38: Very short range forecasting: Observations, methods and systems
[WMO-621] 15 p2371 N84-25226
Use of satellites in frost forecasting: SIPHES
23 p3775 N84-33931

NOXIOUS MATERIALS
U CONTAMINANTS

NOZZLE COEFFICIENT
U NOZZLE FLOW

NOZZLE DESIGN
Effect of thrust reverser operation on the lateral-directional characteristics of a three-surface F-15 model at transonic speeds
[NASA-TP-2234] 04 p0481 N84-13165
Flow visualization and interpretation of visualization data for deflected thrust V/STOL nozzles
[NASA-TM-83554] 05 p0631 N84-14147
Stresses in cylindrical shells with nozzles subjected to external loadings and internal pressure
[CRIF-MT-156] 07 p1017 N84-16597
Space Shuttle ice suppression system validation, volume 2
[NASA-CR-171741] 08 p1114 N84-17245
Characteristics of a four nozzle, slotted mixing stack with slanted shroud, gas eductor system
[AD-A134794] 08 p1159 N84-17547
Wave engine technology development
[AD-A139175] 14 p2155 N84-23911
Experimental investigation of shock-cell noise reduction for dual-stream nozzles in simulated flight comprehensive data report. Volume 1: Test nozzles and acoustic data
[NASA-CR-168336-VOL-1] 14 p2220 N84-24323
Fluidic thrust vector control thruster development
20 p3141 N84-29940
Supersonic jet shock noise reduction
[NASA-TM-83799] 24 p3961 N84-35085

NOZZLE EFFICIENCY
Evaluation of 95 gpm inductors for aqueous film forming foam
[AD-A141242] 18 p2818 N84-27894

NOZZLE FLOW
An approach to experimental investigation of jet plume effects on missile aerodynamics
[AD-A131336] 02 p0186 N84-11210
The 80-micron particle acceleration in an expanding gas supplement
[AD-A130991] 02 p0218 N84-11426
Shock associated noise — nozzles
06 p0767 N84-15030
Two dimensional condensing flow in transonic turbine cascades 06 p0841 N84-15484
The SRB nozzle erosion related flow analysis
[NASA-CR-170961] 07 p0965 N84-16251
The start-up of a gas turbine engine using compressed air tangentially fed onto the blades of the basic turbine
[NASA-TM-77021] 07 p1012 N84-16563
Flow processes in overexpanded chemical rocket nozzles. Part 1: Flow separation
[NASA-TM-77396] 10 p1450 N84-19470
Low frequency noise in a quiet, clean, general aviation turbofan engine
[NASA-TM-83520] 10 p1575 N84-20320
Two-phase fluid flow through nozzles and abrupt enlargements
[DE84-006991] 12 p1816 N84-21841
Three-dimensional, two-phase supersonic nozzle flows
[AD-A138649] 13 p1926 N84-22538
Experimental investigation of shock-cell noise reduction for dual-stream nozzles in simulated flight comprehensive data report. Volume 1: Test nozzles and acoustic data
[NASA-CR-168336-VOL-1] 14 p2220 N84-24323
Experimental investigation of shock-cell noise reduction for dual-stream nozzles in simulated flight comprehensive data report. Volume 2: Laser velocimeter data, static pressures and shadowgraph photos
[NASA-CR-168336-VOL-2] 14 p2220 N84-24324
Aeropropulsive characteristics of nonaxisymmetric-nozzle thrust reversers at Mach numbers from 0 to 1.20
[NASA-TP-2306] 15 p2254 N84-24538
Mixed boundary-value problems pertaining to profile of supersonic nozzles and channels
17 p2645 N84-26919
Velocity and temperature characteristics of two-stream, coplanar jet exhaust plumes
[NASA-TM-83730] 19 p2965 N84-28790
User's guide to the NOZL3D and NOZLIC computer programs
[NASA-CR-159173] 19 p3020 N84-29150

NOZZLE GEOMETRY
Flow visualization and interpretation of visualization data for deflected thrust V/STOL nozzles
[NASA-TM-83554] 05 p0631 N84-14147
Space Shuttle ice suppression system validation, volume 3
[NASA-CR-171742] 08 p1114 N84-17246
Static internal performance including thrust vectoring and reversing of two-dimensional convergent-divergent nozzles
[NASA-TP-2253] 09 p1251 N84-18165
Design and testing of scaled ejector-diffusers for jet engine test facility applications
[AD-A136745] 10 p1432 N84-19364
Experimental investigation of shock-cell noise reduction for dual-stream nozzles in simulated flight comprehensive data report. Volume 1: Test nozzles and acoustic data
[NASA-CR-168336-VOL-1] 14 p2220 N84-24323
Experimental investigation of shock-cell noise reduction for dual-stream nozzles in simulated flight comprehensive data report. Volume 2: Laser velocimeter data, static pressures and shadowgraph photos
[NASA-CR-168336-VOL-2] 14 p2220 N84-24324
Aeropropulsive characteristics of nonaxisymmetric-nozzle thrust reversers at Mach numbers from 0 to 1.20
[NASA-TP-2306] 15 p2254 N84-24538
The impingement of an underexpanded air jet on square section beams
[BU-291] 15 p2256 N84-24548
Free jet feasibility study of a thermal acoustic shield concept for AST/VCE application: Single stream nozzles
[NASA-CR-3758] 19 p3096 N84-29661
Fuselage and nozzle pressure distributions of a 1/12-scale F-15 propulsion model at transonic speeds. Effect of fuselage modifications and nozzle variables
[NASA-TP-2333] 22 p3531 N84-32354
Experimental investigation of shock-cell noise reduction for single-stream nozzles in simulated flight, comprehensive data report. Volume 1: Test nozzles and acoustic data
[NASA-CR-168234-VOL-1] 22 p3652 N84-33148
Control of jet flowfield dynamics
[AD-A143631] 23 p3746 N84-33750
Supersonic jet shock noise reduction
[NASA-TM-83799] 24 p3961 N84-35085

NOZZLE THRUST COEFFICIENTS
Nozzle performance calibration and turbomachinery operational analysis of Turbo-Powered Simulators (TPS) for the NASA-Langley EET propulsion airframe integration investigation
[NASA-CR-165949] 23 p3695 N84-33416

NOZZLES
Movement of free-flowing materials in aerodynamic controlled-feed gate 09 p1324 N84-18652
Mach number and density effects in the mixing of supersonic jets 13 p1942 N84-22628

NUCLEAR AUXILIARY POWER UNITS
NT SNAP 8
NT SPACE POWER REACTORS
NT SPACE POWER UNIT REACTORS

NUCLEAR BINDING ENERGY
Covariant theory with a confined quantum
[DE83-014897] 03 p0435 N84-12850

NUCLEAR CAPTURE
NT ELECTRON CAPTURE
Applications for fission product data to problems in stellar nucleosynthesis
[DE84-004819] 10 p1596 N84-20458

NUCLEAR CHEMISTRY
Trends in exotic-atom research
[DE84-001679] 04 p0602 N84-13974
Activities in nuclear and high energy physics
06 p1231 N84-18043

NUCLEAR ELECTRIC POWER GENERATION
NT NUCLEAR POWER PLANTS
NT NUCLEAR POWER REACTORS
NT SNAP 8
NT SPACE POWER REACTORS
NT SPACE POWER UNIT REACTORS
The potential impact of new power system technology on the design of a manned space station
[NASA-TM-83770] 21 p3354 N84-31272

NUCLEAR ELECTRIC PROPULSION
Space reactors: What is a kilogram?
[DE84-012656] 22 p3655 N84-33169

NUCLEAR ENERGY
Computer software summaries, numbers 424 through 693
[DE83-015297] 04 p0581 N84-13834
Joint Atomic Information Exchange Group information management project. Briefing outlining functions and specifications of JAIEG automated information management system
[DE84-001800] 06 p0936 N84-16082
Joint Atomic Information Exchange Group information management project. Task 2 briefing document. System specification and hardware/software purchase recommendations for JAIEG automated information management system
[DE84-001798] 06 p0936 N84-16083
Energy technology characterizations handbook: Environmental pollution and control factors, third edition
[DOE/EP-0093] 16 p2511 N84-26117

NUCLEAR EXPLOSION EFFECT
Supplemental grounding of extending EMP collectors
[AD-A131255] 01 p0067 N84-10440
High-latitude and equatorial research support for predicting high-altitude nuclear effects
[AD-A131431] 02 p0249 N84-11630
Nuclear explosion effects on telecommunication, etc. (effect of EMP and of ionizing radiation on electronics and optical electronics
[FOA-C-30302-A3] 08 p1146 N84-17458
Airborne penetration of radioactive clouds
[AD-A135648] 09 p1361 N84-18894
NASTRAN analysis of nuclear effects on helicopter transparencies
[AD-P003234] 17 p2597 N84-26647
A technique for simulating conduction interference created by electromagnetic pulses (EMP)
[SNIAS-841-422-104] 21 p3388 N84-31502
Calculation of low altitude electromagnetic pulses in the first moments — after a nuclear explosion
[SNIAS-841-422-105] 21 p3388 N84-31503
Calculation of high altitude electromagnetic pulses due to X and gamma photons
[SNIAS-841-422-106] 21 p3388 N84-31504
Coupling of electromagnetic pulses created by a nuclear explosion on the ground with overhead power cables
[SNIAS-841-422-107] 21 p3388 N84-31505
Calculation of electromagnetic fields on the surface of and inside cavities — nuclear explosion effects
[SNIAS-841-422-108] 21 p3388 N84-31506
Effects of transient ionizing radiation in various generations of TTL-circuits in the 54/74 series — nuclear explosion effect
[FOA-C-30365-A3] 23 p3744 N84-33736

NUCLEAR EXPLOSIONS
Forbidden line radiation cooling of high altitude plasmas
[AD-A131266] 01 p0149 N84-10979
Fields and currents and charges on obstacles in a parallel-plate simulator at selected frequencies and with pulse excitation
[AD-A132406] 04 p0520 N84-13418
Propagation of a radio-frequency pulsed signal over the Earth. The JOLLY programs
[DE84-000109] 04 p0523 N84-13439
Review of astrophysical research at Los Alamos
[DE83-017304] 04 p0620 N84-14091
Radioactivity levels in humid and dry fallout gathered in the last 20 years in some points of the Padana Valley (Italy)
[CISE-2069] 05 p0701 N84-14598
Experimental technique for handling and analysis of particles collected after nuclear explosions
[FOA-C-20503-A1] 05 p0746 N84-14899
Large amplitude waves generated by an explosive mechanism
[MRL-R-905] 08 p1155 N84-17524
Phenomenology of structured plasma in the ionosphere
[AD-A136396] 09 p1345 N84-18784
Multi-element X-ray shields for spacecraft
[AD-A137105] 10 p1449 N84-19466
Transient gas flow along single or bundled electrical cables surrounded by a permeable medium
[DE84-004791] 10 p1494 N84-19772
Deconvolution based on source scaling applied to teleseismic signals — nuclear explosion monitoring
[FOA-C-20514-T1] 12 p1848 N84-22046
The effect of a low-altitude nuclear burst on millimeter wave propagation 15 p2323 N84-24947
An experimental and theoretical investigation of an Nemp (nuclear electromagnetic pulse simulator) type fast rise lightning simulator
[AD-A141283] 18 p2890 N84-28348
Nuclear electromagnetic pulse (EMP) and electric power systems
[DE84-010885] 20 p3175 N84-30166
NASTRAN analysis comparison to shock tube tests used to simulate nuclear overpressures
[AD-A142290] 20 p3202 N84-30337
Common data base experiment: Detection and location capacity
[FOA-C-20536-T1] 20 p3316 N84-31058
Evaluation of methodologies for estimating vulnerability to electromagnetic pulse effects
[AD-A144408] 24 p3894 N84-34663

NUCLEAR FISSION
Advanced fusion concepts project summaries, FY 1983
[DE83-013973] 02 p0296 N84-11940
Separated isotopes: Vital tools for science and medicine
[DE83-011646] 04 p0603 N84-13981
Study of the characteristics of high pressure proportional counters for the detection of radioactive gases
[AD-A135803] 09 p1280 N84-18356

NUCLEAR FUEL ELEMENTS
Fuel Systems for compact fast space reactors
[DE84-006545] 14 p2223 N84-24343

Surfaces, Coatings and Protection — for nuclear reactor components
[ND-R-751(S)] 18 p2931 N84-28583

NUCLEAR FUEL REPROCESSING
Advanced teleoperation in nuclear applications: Consolidated fuel reprocessing program
[DE84-011631] 20 p3197 N84-30303
Advanced remotely maintainable force-reflecting servomanipulator concept
[DE84-011634] 21 p3414 N84-31646

NUCLEAR FUELS
NT SPENT FUELS
Neutronic and thermal design considerations for heat-pipe reactors
[DE83-012690] 01 p0145 N84-10954
A laser-fusion rocket for interplanetary propulsion
[DE84-001236] 04 p0490 N84-13219
Hydrogen pellet injection into Alcator C
[DE83-016878] 04 p0609 N84-14018
Surface contamination from actinide solutions
[AERE-R-11046] 18 p2816 N84-27879
The application of HTR coated fuel particle performance models to various problems in materials' science
[AERE-R-11029] 18 p2931 N84-28589
NRC survey on plasma physics and fluids fusion plasma confinement and heating. Chapter 8: Inertial confinement fusion
[AD-A142302] 19 p3107 N84-29744
Space nuclear safety program
[DE84-011015] 20 p3298 N84-30943
Space reactor fuels performance and development issues
[DE84-011414] 21 p3497 N84-32164

NUCLEAR FUSION
NT CONTROLLED FUSION
Novel neutralized-beam intense neutron source for fusion technology development
[DE83-014953] 01 p0144 N84-10949
Fueling of fusion devices by pellet injection: Development in the USA
[DE83-013706] 01 p0151 N84-10990
Fluctuations in 3 Los Alamos experiments
[DE83-014158] 01 p0151 N84-10994
Research activities in materials and molecular research
[DE83-015005] 03 p0347 N84-12255
Theoretical studies of fusion physics. Volume 1: Summary
[DE83-010378] 03 p0445 N84-12924
Nuclear design of a very-low-activation fusion reactor
[DE83-017470] 03 p0448 N84-12949
Structural performance of ceramics in a high-fluence fusion environment
[DE84-001311] 04 p0508 N84-13329
Separated isotopes: Vital tools for science and medicine
[DE83-011646] 04 p0603 N84-13961
Background information and technical basis for assessment of environmental implications of magnetic fusion energy
[DE83-018300] 04 p0611 N84-14030
Materials studies for magnetic fusion energy applications at low temperatures, part 6
[PB83-259630] 05 p0657 N84-14320
The 182-Hf: A new short-lived r-process chronometer
[DE83-015698] 05 p0764 N84-15009
Concept for a volume-type tandem three-chamber negative hydrogen ion source
[DE84-003338] 07 p1073 N84-16971
Magnetic mirror fusion power systems
[DE84-002799] 07 p1077 N84-17005
Nucleosynthesis in stellar explosions
[DE84-002787] 07 p1090 N34-17067
Status of light ion inertial fusion research at NRL (Naval Research Laboratory)
[AD-A135951] 09 p1392 N84-19087
Computational physics program at National MFE Computer Center
[DE84-004602] 10 p1574 N84-20318
Prospects of the plasma focus for magnetic fusion
10 p1585 N84-20386
Plasma engineering design of a Compact Reversed-Field Pinch Reactor (CFFPR)
[DE84-004394] 10 p1586 N84-20394
Applications for fission product data to problems in stellar nucleosynthesis
[DE84-004819] 10 p1596 N84-20458
Current sensing in magnetic fusion experiments by Faraday rotation in single-mode optical fibers
[DE84-004326] 11 p1732 N84-21298
Annual review, April 1982 - March 1983
[ISSN-0547-1567] 11 p1733 N84-21303
Proceedings on Symposium on Atomic Collision Data for Diagnostics and Modelling of Fusion Plasmas
[IPPJ-AM-33] 11 p1734 N84-21310
External excitation of ion cyclotron drift waves in a two-ion species plasma
[IPPJ-685] 13 p2044 N84-23264
Moving ring reactor KARIN-I
[IPPJ-68C] 13 p2044 N84-23265
Magnetic fusion energy research and development
[DE84-007089] 13 p2045 N84-23270
Sustainment dynamo reexamined: Nonlocal electrical conductivity of plasma in a stochastic magnetic field
[DE84-007485] 15 p2412 N84-25478
Elemental advances of ultraheavy cosmic rays
[NASA-CR-173650] 17 p2781 N84-27658
Proceedings of Collaborating Research Meeting on Particle-Beam Applications to Fusion Research
[IPPJ-678] 21 p3500 N84-32184
Three-dimensional model for fusion processes
[DE84-011731] 21 p3526 N84-32339
A high resolution system for analogue recording and digital processing of measured values in fusion research
[JUEL-1909] 23 p3752 N84-33786

NUCLEAR INTERACTIONS
NT ELECTRON CAPTURE
NT NUCLEAR CAPTURE
NT SPIN-ORBIT INTERACTIONS
NT STRONG INTERACTIONS (FIELD THEORY)
NT WEAK INTERACTIONS (FIELD THEORY)
An abrasion-ablation model description of galactic heavy-ion fragmentation
[NASA-TP-2305] 12 p1903 N84-22396
Nuclear magnetic resonance study of the structure of simple molecules adsorbed on metal surfaces: Acetylene on platinum
[DE84-008661] 19 p2996 N84-28981

NUCLEAR ISOBARS
The 3-body forces, relativistic effects, isobars, and pions in nuclear systems
[DE84-000163] 04 p0597 N84-13938

NUCLEAR MAGNETIC RESONANCE
NT PROTON MAGNETIC RESONANCE
Nuclear magnetic resonance gyroscope
[AD-A130102] 01 p0083 N84-10539
Background information on the He(3) nuclear gyroscope
[AD-A130755] 01 p0084 N84-10545
Nuclear moment alignment, relaxation and detection mechanisms
[AD-A131546] 02 p0223 N84-11464
Development and construction of an apparatus based on the principle of multidimensional nuclear magnetic resonance for the formation of images of organs and parts of the body
[BMFT-FB-T-83-102] 02 p0266 N84-11752
SPEC-DOC: A user's guide to spectrometer software
[DE83-013295] 02 p0274 N84-11790
High-resolution nuclear magnetic resonance in solids (1975-1982)
[DE83-016408] 02 p0291 N84-11910
New developments and opportunities for NMR in metal-hydrogen systems
[DE83-017696] 03 p0437 N84-12864
Analytical studies of advanced high-field designs: 20-Tesla large-bore superconducting magnets
[DE83-017591] 04 p0594 N84-13918
Quantitative determination of hydrogen by pulsed nuclear magnetic resonance spectroscopy
[DE84-002831] 06 p0802 N84-15227
Coherent effects in laser spectroscopy
06 p0849 N84-15533
An NMR study of solid hydrogen using packer solid echoes and rotating reference frame relaxation
06 p0922 N84-15992
High-resolution solid-state (13)C NMR study of the templating cations in tetrapropylammonium fluoride silicalite: The effect of steric interactions
[DE83-011706] 06 p0925 N84-16013
Hydration of (BETA)-prime-prime-alumina
[DE83-015696] 07 p1083 N84-17041
Magnetic properties of interstitial phases in vanadium-oxygen system
[BLL-M-35386] 09 p1393 N84-19095
The mechanism of Ziegler-Natta polymerization of acetylene: A nutation NMR study
[AD-A137089] 10 p1468 N84-19588
Measurement of diffusion constant by pulsed magnetic field gradient NMR in Ag26I13W4O16 RbAg4I5 and KAg4I5
11 p1743 N84-21373
Application of NDE methods to green ceramics: Initial results
[DE84-006411] 14 p2130 N84-23769
The NMR laser: A nonlinear solid state system showing chaos
14 p2239 N84-24440
Nuclear magnetic resonance studies of molten salts
[AD-A141751] 19 p2988 N84-28935
Nuclear magnetic resonance study of the structure of simple molecules adsorbed on metal surfaces: Acetylene on platinum
[DE84-008661] 19 p2996 N84-28981
Low cost acetylene terminated polymers
[AD-A140040] 19 p2998 N84-28996
Ion conduction poly(vinyl acetate)
[AD-A142249] 19 p3096 N84-29660
Characterization of organometallic polymers by chromatographic methods and nuclear magnetic resonance, part 2
[PB84-183599] 20 p3165 N84-30100
Nuclear Magnetic Resonance (NMR) study of glass fiber-epoxy resin composites in the solid state
21 p3358 N84-31299
A study of a two-frequency NMR maser
21 p3408 N84-31615
NMP, electrical relaxation, and high pressure electrical conductivity in ion conducting polymers
[AD-A143202] 22 p3546 N84-32451
Carbon-13 and proton nuclear magnetic resonance analysis of shale-derived refinery products and jet fuels and of experimental referee broadened-specification jet fuels
[NASA-CR-174761] 22 p3561 N84-32552
Ground-state properties and optical excitations of a solvated electron in molten alkali halides
[DE84-701191] 24 p3881 N84-34587

NUCLEAR MEDICINE
NT RADIOBIOLOGY
Nuclear-medicine
[DE84-000346] 04 p0571 N84-13759
A study of thick-target X-ray spectra using photonuclear reactions
[AD-A132543] 04 p0596 N84-13934
Method for thermal monitoring subcutaneous tissue
[NASA-CASE-LAR-13026-1] 11 p1694 N84-21053
The contribution of nuclear medicine to cardiology
11 p1700 N84-21092
Absolute photopeak efficiency values for an intrinsic well-type Ge detector in the gamma ray region 0.1 to 3.0 MeV
[REPT-2(1984)] 18 p2900 N84-28396

NUCLEAR METEOROLOGY
Airborne penetration of radioactive clouds
[AD-A135848] 09 p1361 N84-18894

NUCLEAR MODELS
Ultra-relativistic heavy ions and cosmic rays
[DE83-015881] 03 p0476 N84-13134
Investigations of the structure and electromagnetic interactions of few body systems
[DE84-006852] 12 p1902 N84-22388

NUCLEAR PARTICLES
NT ALPHA PARTICLES
NT ANTINEUTRINOS
NT ANTIPARTICLES
NT ANTIPROTONS
NT BETA PARTICLES
NT BOSONS
NT MESONS
NT MUONS
NT PHOTOELECTRONS
NT PHOTONS
NT PIONS
NT POSITRONS
Results of the Purdue University GAS-1 payload
18 p2799 N84-27760
Nuclear particle detection using a track-recording solid
18 p2800 N84-27769

NUCLEAR PHYSICS
NT REACTOR PHYSICS
What can be learned with fast neutrons?
[DE83-015783] 01 p0144 N84-10948
Very-high-energy nuclear physics
[DE83-013379] 01 p0146 N84-10957
Proceedings of the 16th LAMPF Users-Group Meeting
[DE83-013215] 03 p0382 N84-12488
The 63-inch cyclotron research program
[DE83-015827] 03 p0435 N84-12852
Low energy nuclear physics and accelerator development
[DE83-013384] 03 p0438 N84-12877
Trends in exotic-atom research
[DE84-001679] 04 p0602 N84-13974
Photonuclear data index, 1973-1981, supplement 2 to NBS (National Bureau of Standards) special publication 380
[PB83-251363] 05 p0746 N84-14898
Physics with LAMPF 2
[DE83-016338] 07 p1073 N84-16972
Defense, energy, and basic research at the Los Alamos National Laboratory
[DE83-015241] 07 p1094 N84-17116
Activities in nuclear and high energy physics
08 p1231 N84-18043

Energy loss of 24.8-MeV electrons by interacting with thick layers of C, Al, Cu, and Pb
[ETL-836] 13 p2046 N84-23277
Activities report of the Werner-Heisenberg Institute of Physics
[ISSN-0173-6256] 19 p3103 N84-29714
USSR report: Physics and mathematics
[JPRS-UPM-84-001] 20 p3285 N84-30862
IEEE Transactions on Nuclear Science. Volume NS-30, no. 4, part 2: 1983 Particle Accelerator Conference
[DE84-007400] 20 p3294 N84-30914
Activities in nuclear and high energy physics
[B8467321] 20 p3299 N84-30949
USSR report: Physics and mathematics
[JPRS-UPM-84-003] 21 p3477 N84-32043
Applied chromodynamics
[DE84-009136] 21 p3495 N84-32152
Activities in nuclear and high energy physics
23 p3824 N84-34250

NUCLEAR POWER GENERATION
U NUCLEAR ELECTRIC POWER GENERATION

NUCLEAR POWER PLANTS
Microkinetics of stress-corrosion cracking in stem-turbine disc alloys
[DE83-902290] 01 p0048 N84-10307
A survey of the state-of-the-art in aging of electronics with application to nuclear-power-plant instrumentation
[DE83-012696] 01 p0073 N84-10478
Survey of error propagation in systems
[DE83-009817] 01 p0134 N84-10878
Simplified methods for the inelastic analysis of stiffened shells
[DE83-016518] 02 p0232 N84-11525
An approach to modeling of human performance for purposes of probabilistic risk assessment
[DE83-009292] 02 p0269 N84-11764
Analytical response of concrete structures subjected to high temperatures
[DE83-009625] 03 p0389 N84-12536
Automated reasoning in man-machine control systems
[DE83-014307] 03 p0424 N84-12774
The Centro Informazioni Studi Esperienze (CISE) activity in background radioactivity
[CISE-2070] 05 p0701 N84-14599
Summary of annual environmental reports for CY 1981: Department of Energy nuclear sites
[DOE/EP-0038/1] 06 p0875 N84-15692
State-of-the-art of solid-state motor controllers. Part 4: Failure-rate and failure-mode data
[DE84-001022] 08 p1152 N84-17502
Estimation of small area populations using remote sensing and other approaches
[DE84-003404] 08 p1178 N84-17678
Laboratory measurements of subsynchronous resonance
[RL-8845] 11 p1667 N84-20877
Earthquakes in the United States, January - March 1982
[USGS-CIRC-896-A] 11 p1677 N84-20945
Introduction of productive welding and surfacing technological processes to production of nuclear powerplant equipment 12 p1787 N84-21655
Global energy future and CO2 induced climate change: Executive summary
[PB84-145911] 12 p1862 N84-22133
Earthquakes in the United States, April - June 1982
[USGS-CIRC-896-B] 14 p2175 N84-24026
The development of methods to predict both the dynamic and the pseudo-static response of secondary structures subjected to seismic excitations
[DE84-010284] 22 p3612 N84-32684
Aircraft, ships, spacecraft, nuclear plants and quality
[DE84-013262] 22 p3655 N84-33166

NUCLEAR POWER REACTORS
NT SNAP 8
NT SPACE POWER REACTORS
NT SPACE POWER UNIT REACTORS
Reporting of indication data
[FOA-C-30352-E] 15 p2407 N84-25446
Neutron embrittlement of the reactor vessel in Borssele as determined from Charpy specimens
[S/T-REPT-VOL-1-NO-4] 20 p3204 N84-30352
Eddy current testing of steam generator tubes
[BLL-RISLEY-TRANS-4584-(9091.9)] 22 p3606 N84-32848

NUCLEAR PROPULSION
NT NUCLEAR ELECTRIC PROPULSION

NUCLEAR QUADRUPOLE RESONANCE
High-resolution nuclear magnetic resonance in solids (1975-1982)
[DE83-016406] 02 p0291 N84-11910

NUCLEAR RADIATION
NT BETA PARTICLES
NT FAST NEUTRONS
NT GAMMA RAY BURSTS
NT GAMMA RAYS
NT NEUTRON BEAMS
NT SPALLATION
NT THERMAL NEUTRONS
Vectorized Monte Carlo photon transport
[DE83-014807] 03 p0434 N84-12843
Nuclear-medicine
[DE84-000346] 04 p0571 N84-13759
A high performance fiber optic telemetry link for use in a space radiation simulator
[AD-A132736] 05 p0643 N84-14232
Environmental Radiation Data Report 31, July - September 1982
[PB84-104801] 06 p1183 N84-17709
Environmental Radiation Data Report 32, October December 1982
[PB84-104793] 08 p1184 N84-17710
Initial human response to nuclear radiation
[AD-A137543] 11 p1694 N84-21054
NASTRAN analysis of nuclear effects on helicopter transparencies
[AD-P003234] 17 p2597 N84-28647
Basic elements of nuclear geophysics
[INPE-3002-PRE/452] 17 p2726 N84-27350
A review and evaluation of research concerning the performance effects of nuclear radiation
[AD-P003295] 18 p2908 N84-28445

NUCLEAR REACTIONS
NT ANNIHILATION REACTIONS
NT CONTROLLED FUSION
NT ELECTRON CAPTURE
NT ELECTRON SCATTERING
NT HIGH ENERGY INTERACTIONS
NT NEUTRON EMISSION
NT NEUTRON SCATTERING
NT NUCLEAR CAPTURE
NT NUCLEAR FISSION
NT NUCLEAR FUSION
NT NUCLEAR INTERACTIONS
NT NUCLEAR SCATTERING
NT PHOTONUCLEAR REACTIONS
NT PHOTOPRODUCTION
NT POSITRON ANNIHILATION
NT PROTON SCATTERING
NT PROTON-PROTON REACTIONS
NT RADIOACTIVE DECAY
NT RESONANCE SCATTERING
NT SPALLATION
NT SPIN-ORBIT INTERACTIONS
NT THERMONUCLEAR REACTIONS
Quasielastic reactions
[DE83-014616] 01 p0144 N84-10947
What can be learned with fast neutrons?
[DE83-015783] 01 p0144 N84-10948
Heavy-ion reaction mechanisms studied with the spin spectrometer
[DE83-015716] 01 p0144 N84-10950
Nuclear-induced lightning aurora experiment
[AD-A131274] 02 p0249 N84-11628
Statistical calculation of complete events in medium-energy nuclear collisions
[DE83-015951] 03 p0434 N84-12847
Nuclear physics problems for accreting neutron stars
[DE83-017297] 04 p0620 N84-14092
Chain reaction mechanism for I2 dissociation in the O2 (1 delta)-I atom laser
[AD-A134370] 07 p1010 N84-16548
Gamma ray line emission, nuclear destruction and neutron production in hot astrophysical plasmas. Deuterium boiler as a gamma ray source
[REPT-762] 11 p1733 N84-21301

NUCLEAR REACTORS
NT BOILING WATER REACTORS
NT BREEDER REACTORS
NT EXPERIMENTAL BREEDER REACTOR 2
NT FAST NUCLEAR REACTORS
NT FUSION REACTORS
NT HIGH FLUX ISOTOPE REACTORS
NT HIGH TEMPERATURE GAS COOLED REACTORS
NT HIGH TEMPERATURE NUCLEAR REACTORS
NT LIGHT WATER REACTORS
NT LIQUID METAL COOLED REACTORS
NT LIQUID METAL FAST BREEDER REACTORS
NT NUCLEAR POWER REACTORS
NT NUCLEAR RESEARCH AND TEST REACTORS
NT PRESSURIZED WATER REACTORS
NT SNAP 8
NT SPACE POWER REACTORS
NT SPACE POWER UNIT REACTORS
NT SPHEROMAKS
NT SWIMMING POOL REACTORS
NT THERMAL REACTORS
NT TOKAMAK DEVICES
Data analysis of the LLNL hydrogen igniter experiments
[DE83-010260] 01 p0037 N84-10236
Blunt-crack band propagation in finite-element analysis for concrete structures
[DE83-010726] 01 p0097 N84-10632
Comparative evaluation of existing concepts for a 10-tesla FED toroidal field coil
[DE83-012817] 03 p0429 N84-12815
A practical sublimation source for large-scale chromium gettering in fusion devices
[DE84-000724] 04 p0606 N84-14002
Ion-beam surface analysis in plasma-edge studies
[DE84-001578] 04 p0607 N84-14004
Effect of heat treatment on the impact properties of a 12Cr-1Mo-V-W steel
[DE84-003440] 07 p0976 N84-16324
Instrument failure detection in nonlinear systems
[DE84-005306] 11 p1661 N84-20838
Nuclear reactor: On schedule and under cost
[AD-P002790] 13 p2056 N84-23337
The measurement of acoustic emission parameters during hydraulic loading of the Novovorenezh AES reactor vessel VVER-1000
[DRIC-T-6996] 15 p2403 N84-25421
Ultrasonic techniques for the inspection of nuclear components
[BLL-RISLEY-TR-4905-(9091.9F)] 18 p2850 N84-28098
Flow Induced Vibration Program at Argonne National Laboratory
[DE84-009233] 20 p3187 N84-30249
Qualifications of ultrasonic testing for nuclear inservice inspection applications
[DE84-011899] 20 p3200 N84-30323

NUCLEAR RESEARCH AND TEST REACTORS
NT EXPERIMENTAL BREEDER REACTOR 2
NT HIGH TEMPERATURE NUCLEAR REACTORS
Radiation effects in the Joint European Torus Experiment: Guidelines for preliminary design
[R857/2] 06 p0919 N84-15971
Investigation of the earthquake behavior of the research reactor FRJ-2 (DIDO)
[JUEL-SPEZ-222] 12 p1848 N84-22047

NUCLEAR ROCKET ENGINES
Thermionic conversion reactor technology assessment
[DE84-007611] 22 p3655 N84-33168

NUCLEAR SCATTERING
NT NEUTRON SCATTERING
NT RESONANCE SCATTERING
An annotated bibliography covering generation and use of evaluated cross section uncertainty files
[BNL-NCS-51684] 16 p2566 N84-26465
Particel substructure. A common theme of discovery in this century
[DE84-006776] 19 p3113 N84-29782

NUCLEAR SHIELDING
U RADIATION SHIELDING

NUCLEAR SPIN
Nuclear moments of inertia at high spins
[DE84-005717] 14 p2224 N84-24345
The NMR laser: A nonlinear solid state system showing chaos 14 p2239 N84-24440
Detecting optical polarization of nuclei in semiconductors with super-conducting quantum interferometer 20 p3286 N84-30865

NUCLEAR STRUCTURE
Low energy nuclear physics and accelerator development
[DE83-013384] 03 p0438 N84-12877
Nuclear structure of quasars at 329 megaHertz 05 p0763 N84-15002
New horizons in electromagnetic physics
[DE84-002600] 08 p1230 N84-18039
Investigations of the structure and electromagnetic interactions of few body systems
[DE84-006852] 12 p1902 N84-22388
Electron scattering: Lectures given at ANL
[DE84-006689] 15 p2414 N84-25491
High-spin gamma-ray spectroscopy
[DE84-010716] 20 p3296 N84-30929
High energy nuclear structures
[DE84-010062] 20 p3299 N84-30947

NUCLEAR TEST REACTORS
U NUCLEAR RESEARCH AND TEST REACTORS

NUCLEAR WARFARE
Nuclear explosion effects on telecommunication, etc. (effect of EMP and of ionizing radiation on electronics and optical electronics
[FOA-C-30302-A3] 08 p1146 N84-17458
Satellite system survivability
[AD-P002147] 14 p2137 N84-23612
The interactive effects of morphine and ionizing radiation on the latency of tail-withdrawal from warm water in the rat
[AD-P003251] 18 p2904 N84-28418

The Defense Nuclear Agency intermediate dose program: An overview (effects of total-body irradiation on the performance of personnel in Army combat crews)
[AD-P003253] 18 p2905 N84-28420
Estimated effects of ionizing radiation upon military task performance: Individual combat crewmember assessment
[AD-P003255] 18 p2905 N84-28422
A summary of the psychological effects of tactical nuclear warfare
[AD-P003256] 18 p2905 N84-28423

NUCLEAR WASTES
U RADIOACTIVE WASTES

NUCLEAR WEAPONS
Computer-Integrated Manufacturing (CIM): Turning visions to reality
[DE83-015481] 01 p0091 N84-10593
Single event upset phenomena from high energy neutrons
[AD-A131287] 02 p0292 N84-11914
Bound and free moisture in explosives and plastics
[DE84-001402] 04 p0509 N84-13339
Article examines presence of KR-85 in atmosphere
14 p2174 N84-24021
Requirements for migration of NSSD code systems from LTSS to NLTSS
[DE84-009533] 15 p2395 N84-25368
Estimated effects of ionizing radiation upon military task performance: Individual combat crewmember assessment
[AD-P003255] 18 p2905 N84-28422
Lower confidence bounds on system reliability using component data: Maximum methodology
[DE84-012813] 21 p3415 N84-31658

NUCLEATE BOILING
Heat transfer to subcooled HE 1
[DE83-017767] 04 p0535 N84-13520
A blowup phenomenon of the working fluid in a two-phase closed thermosyphon
20 p3169 N84-30122
Dynamics of normal-zone propagation in Ta at small currents
[DE84-009990] 22 p3666 N84-33245

NUCLEATION
NT CLOUD SEEDING
Growth of epitaxial ice crystals on covellite (CuS) under reduced air pressure 02 p0306 N84-12008
Predicting the base phase in the crystallization of eutectic alloys
[BLL-M-35347-(5828.4)] 04 p0497 N84-13262
Pulsed-ion-irradiated microstructures in molybdenum
[DE84-000679] 04 p0504 N84-13304
Physical modeling of the champagne effect
[DE84-001813] 04 p0516 N84-13368
Effect of hydrodynamic flow on the morphology of electrodeposited zinc
[DE84-001816] 05 p0651 N84-14281
Measurement of precipitate nucleation times in molten metals by pulsed surface melting
[DE84-002363] 05 p0656 N84-14311
The heterogeneous nucleation of ice I
06 p0817 N84-15325
Characterization and analysis of cavity development during creep of ceramics at elevated temperature
[DE84-003113] 07 p0979 N84-16345
Research opportunities in salt hydrates for thermal energy storage
[DE84-002977] 07 p1026 N84-16650
Studies of silicon refractory metal interfaces: Photoemission study of interface formation and compound nucleation
[AD-A135340] 08 p1131 N84-17358
Entropy production during fatigue as a criterion for failure. The critical entropy threshold: A mathematical model for fatigue
[AD-A134767] 08 p1171 N84-17828
A study of nucleation and growth of thin films by means of computer simulation: General features
[NASA-TM-83550] 08 p1222 N84-17962
Pre-transition phenomena in an iron-nickel alloy prior to the Martensite transformation
11 p1632 N84-20668
Barriers to the migration of interphase boundaries
[AD-A137902] 11 p1633 N84-20679
Solubility of hydrogen in metals and its effect of pore-formation and embrittlement
[NASA-CR-173399] 14 p2127 N84-23751
Time dependent quasifracture nucleation and propagation 15 p2349 N84-25097
Grain formation in the expanding gas flow around cool luminous stars 16 p2569 N84-26489
Heterogeneous condensation of ice mantle around silicate core grain in molecular cloud
16 p2570 N84-26491
Heterogeneous condensation of ice mantle around silicate core grain in molecular cloud
18 p2948 N84-28689
Transformation plasticity in high-strength materials
[DE84-008655] 19 p2966 N84-28922
Directional growth of pearlite in Fe-C eutectiod alloys
[DE84-007368] 20 p3156 N84-30042
Nucleation and growth of N- and P-type microcrystals in low-temperature glow-discharge deposited silicon films
[DE84-013122] 22 p3667 N84-33246

NUCLEI (NUCLEAR PHYSICS)
NT ALPHA PARTICLES
NT DEUTERONS
NT HEAVY NUCLEI
NT HYPERNUCLEI
NT ODD-EVEN NUCLEI
Low-ionization emission regions in the nuclei of spiral galaxies 06 p0839 N84-16100
Nuclear moments of inertia at high spins
[DE84-005717] 14 p2224 N84-24345
Measurement of heavy cosmic-ray nuclei on LDEF (M0002-2) 15 p2276 N84-24664
Detecting optical polarization of nuclei in semiconductors with super-conducting quantum interferometer
20 p3286 N84-30865

NUCLEIC ACIDS
NT DEOXYRIBONUCLEIC ACID
NT RIBONUCLEIC ACIDS
Nucleic acid content of canine liver during long-term experimental hypokinesia 15 p2377 N84-25267

NUCLEON POTENTIAL
Specific heat of He-3 in the Fermi-liquid region
[DE83-014858] 08 p1162 N84-17586

NUCLEON-NUCLEON INTERACTIONS
Nucleon-nucleon interactions and polarized-beam (both proton and antiproton) facilities at LAMPF 2
[DE83-017215] 03 p0436 N84-12660
Meson-exchange Hamiltonian for NN scattering and isobar-nucleus dynamics
[DE83-017974] 04 p0600 N84-13959
Configuration space Faddeev calculations
[DE84-006492] 11 p1730 N84-21289
Research in theoretical nuclear physics
[DE84-006976] 12 p1902 N84-22387
Intermediate-energy nuclear theory — nucleon-nucleon theory, three-dadron systems, hadron form factors, and Dirac particles
[DE84-012971] 22 p3654 N84-33161

NUCLEON-NUCLEON SCATTERING
Ablation effects in oxygen-lead fragmentation at 2.1 GeV/nucleon
[NASA-TM-85704] 07 p1074 N84-16977
Baryon distribution in relativistic heavy-ion collisions
[DE84-008509] 18 p2930 N84-28581
Intermediate-energy nuclear theory — nucleon-nucleon theory, three-dadron systems, hadron form factors, and Dirac particles
[DE84-012971] 22 p3654 N84-33161

NUCLEOPHILES
Substitution and addition reactions of a (Methylene)phosphine with alkyllithium reagents
[AD-A141512] 19 p2984 N84-28908

NUCLEOSIDES
NT ADENOSINE TRIPHOSPHATE
Uracil and uridine photolysis on lunar soil
14 p2250 N84-24516

NUCLEOSYNTHESIS
U NUCLEAR FUSION

NUCLEOTIDES
NT ADENOSINE TRIPHOSPHATE

NUCLIDES
NT AMERICIUM
NT AMERICIUM 241
NT ARSENIC ISOTOPES
NT BERYLLIUM 9
NT BERYLLIUM 10
NT CALCIUM ISOTOPES
NT CARBON 12
NT CARBON 13
NT CARBON 14
NT CESIUM VAPOR
NT CESIUM 137
NT COBALT 60
NT DEUTERIUM
NT HELIUM ISOTOPES
NT HYDROGEN ISOTOPES
NT IODINE ISOTOPES
NT IODINE 131
NT IRON ISOTOPES
NT ISOTOPES
NT KRYPTON 85
NT LUTETIUM
NT NEON ISOTOPES
NT NITROGEN 15
NT OXYGEN ISOTOPES
NT PLUTONIUM
NT PLUTONIUM 238
NT RADIOACTIVE ISOTOPES
NT RADON ISOTOPES
NT RUBIDIUM ISOTOPES
NT SILVER ISOTOPES
NT STRONTIUM ISOTOPES
NT TELLURIUM
NT TRITIUM
NT URANIUM 235
NT URANIUM 238
NT XENON 133
Radioactive-ion-beam research at Livermore
[DE83-014872] 02 p0297 N84-11948
Model for GCR-particle fluxes in stony meteorites and production rates of cosmogenic nuclides
[NASA-CR-173923] 22 p3679 N84-33321

NULL ZONES
The use of a beam space representation and nonlinear programming in phase-only nulling
[AD-A131365] 02 p0272 N84-11779
Simultaneous nulling in the sum and difference patterns of a monopulse antenna
[AD-A131865] 03 p0361 N84-12347
Nulling with limited degrees of freedom
[AD-A132276] 04 p0521 N84-13424
Phase-only nulling at symmetric pattern locations
[AD-A133128] 06 p0822 N84-15361
Issues critical to the application of adaptive array antennas to missile seekers
[AD-A133401] 06 p0824 N84-15371
Nulling in array patterns with orthogonal analytic cancellation beams
[AD-A142719] 20 p3178 N84-30188
Effect of spatial decorrelation on nulling performance of linear adaptive array
[AD-A143013] 21 p3400 N84-31570

NUMBER THEORY
NT ARITHMETIC
NT CONGRUENCES
NT DIOPHANTINE EQUATION
NT DIVIDING (MATHEMATICS)
NT EXPONENTS
NT FIXED POINT ARITHMETIC
NT FLOATING POINT ARITHMETIC
NT INDUCTION (MATHEMATICS)
NT INTEGERS
NT MULTIPLICATION
Stability analysis for difference schemes, problems in applied linear algebra, and application of number theory to computing
[AD-A133654] 05 p0735 N84-14825
Computational methods in number theory, part 1
[MATH-CENTRE-TRACTS-154-PT-1]
08 p1223 N84-17990
Machine models, computational complexity and number theory 08 p1223 N84-17991
Primality testing 08 p1224 N84-17993
Factorization algorithms of exponential order
08 p1224 N84-17994
Perfect numbers and aliquot sequences
08 p1224 N84-17996
Computational methods in number theory, part 2
[MATH-CENTRE-TRACTS-155-PT-2]
08 p1225 N84-17999
The computation of Galois groups
08 p1225 N84-18000
Class numbers and units 08 p1225 N84-18001
Quadratic fields and factorization
08 p1225 N84-18002
Multi-dimensional continued fraction algorithms
08 p1225 N84-18003
Diophantine equations 08 p1225 N84-18004
Numerical computation of special zeros of partial sums of Riemann's zeta function 08 p1225 N84-18005
The first 200,000,001 zeros of Riemann's zeta function 08 p1225 N84-18006
An algorithm for additive representation of positive integers
[ISSN-0355-0087] 12 p1892 N84-22325
Annals of the Fourier Institute, volume 33, no. 3
[ISSN-0373-0956] 14 p2210 N84-24264
On the moments of an additive function
14 p2210 N84-24265
New very large amicable pairs
[MC-NW-153/83] 14 p2215 N84-24303
An application of number theory to the organization of raster-graphics memory
[AD-A140638] 17 p2758 N84-27508
Some results on the diophantine equation X-2+D=Y-N
[CTH-MATH-1984-06] 19 p3091 N84-29624
Some observations concerning the zero-curves of the real and imaginary parts of Riemann's zeta function
[MC-ZW-201/83] 21 p3476 N84-32030

Infinitesimal L-classes of a group of algebraic numbers
22 p3635 N84-33039
NUMBERS
Microcomputer scientific software series 1: The numerical information manipulation system
[PB83-263624] 05 p0731 N84-14797
NUMERICAL ANALYSIS
NT APPROXIMATION
NT BORN APPROXIMATION
NT BORN-OPPENHEIMER APPROXIMATION
NT BOUNDARY INTEGRAL METHOD
NT CHEBYSHEV APPROXIMATION
NT COMPUTATIONAL FLUID DYNAMICS
NT CONJUGATE GRADIENT METHOD
NT DIFFERENCE EQUATIONS
NT EDDINGTON APPROXIMATION
NT ERROR ANALYSIS
NT FINITE DIFFERENCE THEORY
NT FINITE ELEMENT METHOD
NT FINITE VOLUME METHOD
NT HARTREE APPROXIMATION
NT INTERPOLATION
NT ITERATION
NT ITERATIVE SOLUTION
NT LEAST SQUARES METHOD
NT MONTE CARLO METHOD
NT NEWTON-RAPHSON METHOD
NT NOMOGRAPHS
NT NUMERICAL DIFFERENTIATION
NT NUMERICAL INTEGRATION
NT PADE APPROXIMATION
NT PARTICLE IN CELL TECHNIQUE
NT RAYLEIGH-RITZ METHOD
NT RELAXATION METHOD (MATHEMATICS)
NT RUNGE-KUTTA METHOD
NT SOMMERFELD APPROXIMATION
NT TRUNCATION ERRORS
Numerical analysis of dusty supersonic flow past blunt axisymmetric bodies
[UTIAS-267] 01 p0003 N84-10023
Numerical aspects of control design computations
01 p0015 N84-10097
The oxidation of porous metals
[BLL-TRANS-IZ.148-(5828.4)] 01 p0042 N84-10270
Numerical solution of systems of simultaneous polynomial equations
[DE83-015832] 01 p0135 N84-10883
Vortex breakdown: A two-stage transition
03 p0325 N84-12124
Numerical simulation of vortex breakdown by the vortex-filament method 03 p0325 N84-12126
Numerical analysis of stable crack growth in elastic-plastic materials in small scale and general yielding 03 p0391 N84-12549
Numerical simulation of convective scaling
03 p0406 N84-12660
Guidelines for the design of large modular scientific libraries in Ada
[NPL-DITC-28/83] 03 p0420 N84-12740
Effect of magnetic bending on the high-frequency stability of the ELMO Bumpy Torus
[DE83-017177] 03 p0450 N84-12961
Test of the inverse square law of gravity at distances of 5cm and 1m 04 p0593 N84-13914
Development of the linear displacement discontinuity method 05 p0691 N84-14536
Numerical methods for jointed media and structures
05 p0691 N84-14538
Numerical analysis of boundary value problem of elliptic type by means penalty and the finite difference and its application to free boundary problem
[AD-A132805] 05 p0736 N84-14834
Analysis of regolith electromagnetic scattering as constrained by high resolution Earth-based measurements of the lunar microwave emission
[NASA-CR-174577] 05 p0764 N84-15012
Numerical simulation of separated flows
06 p0832 N84-15413
A comprehensive numerical study and experimental verification of endochronic plasticity
06 p0856 N84-15579
Analysis of plates by the initial-value method
06 p0863 N84-15622
Status of research at the Institute for Computer Applications in Science and Engineering (ICASE)
[NASA-CR-172267] 06 p0895 N84-15811
Report and recommendations for improving constitutive relations used in computer codes — shock mechanics in solids
[AD-A133239] 06 p0897 N84-15823
Computational aerodynamics and supercomputers
[NASA-TM-85887] 07 p0946 N84-16139
Numerical solution of the Navier-Stokes equations for arbitrary 2-dimensional multi-element airfoils
[NASA-CR-173251] 07 p1061 N84-16876
An experimental and numerical investigation of pressure-shear waves in 6061-T6 aluminum and alpha-titanium 08 p1129 N84-17345
The time development of a blast wave with shock heated electrons
[NASA-CR-175364] 08 p1156 N84-17529
Signal detection for same-shape families of non-homogeneous Poisson processes
[AD-A135032] 08 p1217 N84-17942
Progress in numerical calculations of ion-atom collisions
[DE84-003405] 08 p1229 N84-18033
Numerical fluid dynamics
[AD-A135900] 09 p1315 N84-18593
Numerical investigation of stress-strain state of composite working tool assembled with negative allowance
[BLL-M-35379] 09 p1328 N84-18672
Reactive shock phenomena in condensed materials: Formulation of the problem and method of solution
[AD-A136514] 09 p1385 N84-19046
The mathematical structure of elementary particles
[AD-A136295] 09 p1387 N84-19060
Computing theory and practice
09 p1403 N84-19167
Numerical solutions to ill-posed and well-posed impedance boundary condition integral equations
[AD-A137353] 10 p1479 N84-19664
Manufacturing in space: Fluid dynamics numerical analysis
[NASA-CR-175401] 10 p1491 N84-19748
Institute for Computer Applications in Science and Engineering (ICASE)
[NASA-CR-172304] 10 p1556 N84-20195
Adaptive grid generation for numerical solution of partial differential equations
[AD-A136985] 10 p1570 N84-20289
An analytical and numerical study of the interaction of rarefaction waves with area changes in ducts. Part 1: Area reductions
[UTIAS-272] 11 p1651 N84-20780
Implementation of Nisitani's body force method for the solution of notch problems
[AD-A137690] 11 p1668 N84-20881
A numerical analysis of the effect of inhomogeneity and wind speed shear on the vertical dispersion in the mesoscale range
[AD-A137188] 11 p1688 N84-21006
Numerical schemes for a model for nonlinear dispersive waves
[NASA-CR-175416] 11 p1714 N84-21179
Prospects of the surfatron laser plasma accelerator
[DE84-005463] 11 p1738 N84-21336
Cumulative reports and publications through 31 December 1983
[NASA-CR-172326] 12 p1876 N84-22226
Numerical modeling of D-mappings with applications to chemical kinetics
[NASA-TM-84332] 12 p1883 N84-22326
Discrete elements method of neutral particle transport
[AD-A138080] 12 p1902 N84-22384
A unified approach to modeling and combining of evidence through random set theory
[AD-P002880] 13 p1978 N84-22841
Computation of viscous flows over airfoils, including separation, with a coupling approach
[NASA-TM-77079] 14 p2101 N84-23607
Load-transfer criteria for numerical analysis of axially loaded piles in sand. Part 1: Load-transfer criteria
[AD-A139236] 14 p2134 N84-23788
Transactions of the 1st Army Conference on Applied Mathematics and Computing, held at Washington, D.C., 9-11 May 1983
[AD-A139224] 14 p2196 N84-24173
Numerical simulation of the flow of a chemical contaminant subjected to a jet impingement
[AD-P002936] 14 p2196 N84-24176
Computational modeling and mathematics applied to the physical sciences
[DE84-006252] 14 p2214 N84-24301
Numerical and analytical studies of beam channel tracking
[AD-A139148] 14 p2222 N84-24332
Nonlinear optical interfaces 14 p2233 N84-24396
Abstracts of the 20th Annual Meeting: Society of Engineering Science, Incorporated
[AD-A138155] 15 p2306 N84-24833
The 6th International Conference on Computing Methods in Applied Sciences and Engineering
[AD-A139824] 15 p2317 N84-24906
Design calculations associated with the laying of submarine communication cables
[NPL-DMA(A)-76] 15 p2346 N84-25077
A formal semantics for the SRI hierarchical program design methodology 15 p2387 N84-25318
Activities report of the Laboratory for Computer Science (FOA 32)
[FOA-C-30356-E1] 15 p2388 N84-25326
Comments on bounded error adaptive control
[NASA-CR-173542] 15 p2399 N84-25393
A numerical study of the controlled flow tunnel for a high lift model
[NASA-CR-166572] 16 p2436 N84-25642
Multipath pyrotechnic relay: Conception with numerical simulations and experimental validation
[SNIAS-832-422-101] 16 p2474 N84-25855
Activities report of the Computer Department
[ENST-D-8303] 16 p2542 N84-26314
Numerical-analytical method for computing movement of 12-hour artificial earth satellites in near-circular orbits
19 p2972 N84-28841
Methods of analyzing processes of plastic working of metal, part 3 19 p2990 N84-28949
A note on average mutual information for spherically invariant processes
[AD-A141401] 19 p3083 N84-29570
Theoretical methods in the calculation of the bremsstrahlung recoil force in a nonequilibrium beam-plasma system
[AD-A142136] 19 p3089 N84-29609
An adaptive method of lines with error control for parabolic equations of the reaction-diffusion type
[AD-A142253] 19 p3090 N84-29616
The prediction of electrochemical reactivities from contemporary theory: Some comparisons with experiment
[AD-A142406] 20 p3147 N84-29985
Numerical analysis of the burst in the turbulent boundary layer, based on the three-dimensional ortex model
20 p3168 N84-30116
Numerical simulation of autorotation
20 p3168 N84-30118
Numerical simulations of the structure and propagation of self-sustained detonations
[AD-A142486] 20 p3184 N84-30230
Ada (trademark) tasking in numerical analysis
[AD-P003429] 20 p3271 N84-30761
SLATEC mathematical subprogram library, version 2.0
[DE84-010750] 20 p3274 N84-30782
Singular value decomposition with systolic arrays
[NASA-CR-172396] 20 p3279 N84-30817
Study of nonlinear singular systems
[AD-A142348] 20 p3280 N84-30820
Institutional supporting research highlights in physics and mathematics, fiscal year 1983
[DE84-011025] 20 p3284 N84-30855
A direct numerical method for the solution of unsteady Navier-Stokes equations in generalized orthogonal coordinates 21 p3397 N84-31549
Bi- and poly-optimal confidence limits for a location and parameter
[AD-A142980] 21 p3473 N84-32012
An exhaustive analysis of multiplicative congruential random number generators with modulus 2(31)-1
[AD-A143065] 21 p3473 N84-32015
Resonances in electron-molecule scattering and photoionization
[DE84-012660] 21 p3494 N84-32139
Improvements in the accuracy and stability of algorithms for the small-disturbance and full-potential equations applied to transonic flows
[NASA-TM-85970] 22 p3530 N84-32350
Numerical methods for analyzing electromagnetic scattering
[NASA-CR-173916] 22 p3575 N84-32645
Natural convection in porous media: An experimental and numerical study for vertical annular and rectangular enclosures 22 p3592 N84-32744
Summary of research in applied mathematics, numerical analysis and computer science at the Institute for Computer Applications in Science and Engineering
[NASA-CR-172421] 22 p3633 N84-33024
Ignition and flame propagation in sprays
[AD-A143773] 23 p3713 N84-33538
Computational modeling and mathematics applied to the physical sciences
[PB84-180512] 23 p3819 N84-34222
Research on topics in perturbation methods, transonic flow theory, numerical analysis and adaptive grid generation
[AD-A143641] 23 p3833 N84-34315
An anisotropic lens for launching TEM waves on a conducting circular conical system
[AD-A144140] 24 p3893 N84-34656
On numerical methods in non-Newtonian flows
[DE84-701276] 24 p3899 N84-34691
Numerical solutions for cavitating flow of a fluid with surface tension past a curved obstacle
[AD-A144685] 24 p3901 N84-34704

Analysis of experiments on X-ray emission from laser-irradiated targets
[DE84-751157] 24 p3909 N84-34761
Large-scale numerical analysis of three-dimensional seismic waves
[AD-A144610] 24 p3920 N84-34814
A new method of evaluating normal and t-tail areas
[AD-P003842] 24 p3939 N84-34930
The analytic structure of ordinary and partial differential equation
[AD-A144121] 24 p3950 N84-35011

NUMERICAL CONTROL

Practical aspects of digital implementation of control laws 01 p0016 N84-10101
DATATRIEVE used in a control-system database
[DE83-014187] 01 p0162 N84-11064
Apparatus for directional solidification
[DE83-016409] 02 p0196 N84-11271
Cryogenic system for a superconducting spectrometer
[DE83-012995] 02 p0299 N84-11961
The relations between the numerical control of the engine and other aircraft functions 03 p0315 N84-12062
Microprocessor-based control system for flowing-electrolyte zinc-bromine battery systems
[DE83-012506] 03 p0369 N84-12403
Comparison of flight results with digital simulation for a digital electronic engine control in an F-15 airplane
[NASA-TM-84903] 05 p0630 N84-14144
Reflectance measurements, part 2 06 p0928 N84-16028
Computer control of a seven degree of freedom manipulator arm 06 p0931 N84-16051
Digital control system for space structural dampers
[NASA-CR-175355] 07 p0964 N84-16246
Digitally-controlled adaptive welding system
[PB84-125285] 09 p1326 N84-18664
Computer control of refrigerating plants 11 p1640 N84-20724
Progress in research in electronics engineering: Technical review
[DE84-006360] 11 p1647 N84-20772
Graphics specification for graphical requirements for computer-aided control system design
[DE84-004367] 11 p1708 N84-21135
Real-time hybrid computer simulation of a small turboshaft engine and control system
[NASA-TM-83579] 12 p1771 N84-21548
Centralized monitoring and control of environmental chambers by digital computer
[AD-A138278] 12 p1773 N84-21563
Using a commercial CAD system for simultaneous input to theoretical aerodynamic programs and wind-tunnel model construction 12 p1875 N84-22223
Direct digital control of the electric arc furnace
[RR-233] 13 p1974 N84-22811
Automating the source selection process
[AD-P002835] 13 p2063 N84-23380
Control algorithms of Soviet HCS Rusalka for robots analyzed 14 p2188 N84-24113
Proceedings of the Workshop on Multivariable Control Systems
[AD-A139050] 15 p2253 N84-24529
Reconfigurable digital control laws for the A-7D DIGITAC 2 aircraft with failed primary control surfaces
[AFIT/GE/EE/82D-59] 15 p2254 N84-24535
Development of automatic measuring system for image pickup tubes
[NHK-LN-295] 15 p2335 N84-25014
Photogrammetric research
[TRITA-FMI-47] 15 p2358 N84-25146
The question of accuracy in the transition from analogue to analytic photogrammetry 15 p2359 N84-25153
Geometrical testing of X, Y plotters 15 p2359 N84-25155
A new objective method of evaluating image sharpness
[NHK-SERIAL-296] 15 p2407 N84-25449
The frequency characteristics of optical components used for communication systems based on optical frequency-division multiplex
[FI-451-TBR-9] 15 p2407 N84-25451
Modular strapdown guidance unit with embedded microprocessors 16 p2447 N84-25697
Digital control of flight simulator motion base actuator
[ARL-SYS-TM-69] 16 p2454 N84-25732
Automatic control of a visual physiology experiment, using MINC
[AD-A140607] 17 p2745 N84-27431
Multivariable digital flight control design of the X-29A
[AD-A140963] 18 p2796 N84-27745
A microprocessor-based control system for the Vienna PDS microddensitometer 18 p2841 N84-28037
Implementation of the Sun position calculation in the PDC-1 control microprocessor 18 p2875 N84-28257
Utilization of basic language programming with EEPROM technology for data acquisition applications and development
[DE84-010380] 18 p2921 N84-28526
Flexible manufacturing line for aircraft structures of sheet metal
[BMFT-FB-W-84-011] 19 p2955 N84-28731
Development of Integrated Programs for Aerospace-vechicle Design (IPAD). IPAD user requirements: Implementation (first-level IPAD)
[NASA-CR-162713] 19 p2963 N84-28776
Precision digital dilatometry: A microcomputer-based approach to sintering studies
[DE84-009794] 19 p3073 N84-29497
Programming for energy monitoring/display system in multicolor lidar system research
[NASA-CR-165875] 19 p3073 N84-29498
Design of a safety monitor system for high explosives machining
[DE84-010101] 20 p3168 N84-30113
Nova laser alignment control system
[DE84-010992] 20 p3194 N84-30288
DBMS conversion case study
[DE84-011205] 20 p3315 N84-31054
Digital control system for space structural dampers
[NASA-CR-173867] 21 p3353 N84-31267
Basis research on intelligent robotic systems operating in hostile environments: New developments at ORNL
[DE84-011464] 21 p3414 N84-31647
Study of numerical control systems for machines. Integration in flexible workshops and units
[CETIM-1.3T.042] 21 p3470 N84-31991
Modern control techniques for accelerators
[DE84-012521] 21 p3494 N84-32140
Phase and amplitude control system for Stanford Linear Accelerator
[DE84-011773] 21 p3496 N84-32156
Calibration and performance of a high-resolution gamma-spectroscopy system
[DE84-012792] 22 p3548 N84-32462
Computer system for fiber creep testing
[DE84-014453] 22 p3612 N84-32885
Investigation of Doubly-Fed Machine in Variable Speed Applications
[DE84-012943] 22 p3618 N84-32928
Computer-based transmission monitor and control system
[PB84-202068] 22 p3639 N84-33069
Conceptual design of a monitoring system for the Charters of Freedom
[NASA-CR-173909] 22 p3673 N84-33285
Propulsion control experience used in the Highly Integrated Digital Electronic Control (HIDEC) program
[NASA-TM-85914] 23 p3695 N84-33415
Development of production technologies for the series production of optical components with aspheric surfaces
[BMFT-FB-T-84-115] 23 p3727 N84-33620
Incorporation of an Nd:YAG laser engraver into Mound's machining operations
[DE84-014339] 23 p3755 N84-33801
Development of an electrically controllable gas flow valve for use in patient ventilators
[BMFT-FB-T-84-129] 23 p3757 N84-33819
System design of a remotely operated, program controlled measurement table for the calibration of the Egret experiment. Part A: Program control
[NASA-TM-77758] 23 p3812 N84-34172
Development of a 60 cm photographic Zenith telescope, and construction of a prototype
[BMFT-FB-T-84-122] 23 p3826 N84-34263
Device for high frequency arc welding 24 p3869 N84-34522

NUMERICAL DATA BASES

FGGE/SBUV tape specification and shipping letter description
[NASA-CR-170482] 06 p0934 N84-16071
FGGE/ERBM tape specification and shipping letter description
[NASA-CR-170547] 06 p0934 N84-16072
FGGE/ERBZ tape specification and shipping letter description
[NASA-CR-170548] 06 p0934 N84-16073
Typical remote sensing data products 08 p1175 N84-17656
NASA Scientific and Technical Information System (STI) and new directory of numerical data bases 11 p1749 N84-21413
Directory of computerized data files, 1984
[PB84-160126] 21 p3520 N84-32303

NUMERICAL DIFFERENTIATION

Computational methods in number theory, part 2
[MATH-CENTRE-TRACTS-155-PT-2] 08 p1225 N84-17999
Class numbers and units 08 p1225 N84-18001
Multi-dimensional continued fraction algorithms 08 p1225 N84-18003
The first 200,000,001 zeros of Riemann's zeta function 08 p1225 N84-18006
The numerical treatment of linear integrodifferential equations
[HMI-B-381] 15 p2399 N84-25398
A simplified upper atmosphere model to explain seasonal phenomena
[INPE-3071-PRE/488] 16 p2521 N84-26181
Remarks concerning the application of polynomial zeroing methods on the algebraic eigenvalue problem 16 p2541 N84-26309

NUMERICAL FLOW VISUALIZATION

Simulation of turbulent flows with a point vortex method 03 p0324 N84-12119
Numerical solutions of the Euler equations simulating vortex flows around wings 03 p0324 N84-12120
A review of internal combustion engine combustion chamber process studies at NASA Lewis Research Center
[NASA-TM-83666] 15 p2331 N84-24999

NUMERICAL INTEGRATION

NT RUNGE-KUTTA METHOD
Partitioned Runge-Kutta procedures for numerical solution for nonstiff and stiff initial value problems
[TUM-M8304] 02 p0279 N84-11828
The effect of noisy reflection data on an inverse method for determining the structure of a layered ocean bottom
[AD-A131976] 03 p0430 N84-12820
Boundary-integral simulations of rayleigh-taylor instability in ideal magnetohydrodynamics
[AD-A131667] 03 p0444 N84-12920
Multiple transonic solutions and a new class of shock transitions in solar and stellar winds 03 p0468 N84-13083
Numerical solution to the steady state equation of transfer in azimuthally symmetric geometries --- heat transfer and molecular flow
[DE84-001781] 06 p0845 N84-15509
Calculation of cumulative distributions and detection probabilities in communications and optics
[AD-A138561] 09 p1376 N84-18989
Fast algorithms for combustion kinetics calculations: A comparison 11 p1612 N84-20554
Wrinkled-flame calculations revisited
[AD-P002973] 14 p2201 N84-24209
Convex integration of non-linear systems of partial differential equations 14 p2210 N84-24271
A comparitive study of ADI splitting methods for parabolic equations in two space dimensions
[MC-NW-156/83] 14 p2215 N84-24304
Piece-wise analytic evaluation of the radiative tail from elastic and inelastic electron scattering
[PB84-155290] 14 p2223 N84-24342
Gaussian quadrature formulae for tetrahedronal regions
[ISD-307] 15 p2396 N84-25377
Contribution to the study of a numerical implicit method for solving the Euler equations
[ONERA-NT-1983-8] 16 p2488 N84-25958
Analysis of an integration method for rapidly oscillating integrands
[AD-A141731] 19 p3087 N84-29598
The Motion of Planets and Natural and Artificial Satellites, volume 2 19 p3117 N84-29806
Numerical integration with Lie-series 19 p3118 N84-29814
A numerical averaging procedure for the Galilean Satellites system 19 p3118 N84-29816

NUMERICAL STABILITY

Stability in linear multistep methods for pure delay equations
[MC-NW-152/83] 07 p1065 N84-16913
Galerkin's method and stabilization method for variable type equations
[PREPRINT-789] 12 p1895 N84-22346
Comparison of the Liapunov Method and the method of total disparities using the example of selected differential equations
[ISSN-0208-5658] 19 p3081 N84-29553
Stability analysis of finite difference schemes for hyperbolic systems, and problems in applied and computational linear algebra
[AD-A143537] 22 p3646 N84-33119

NUMERICAL WEATHER FORECASTING

Numerical study of mesoscale convective complexes
[PB84-136506] 10 p1541 N84-20102
Mathematical algorithms to maximize performance in numerical weather prediction 10 p1558 N84-20209
Computer simulations of space-borne meteorological systems on the CYBER 205 10 p1558 N84-20210
Operational numerical weather prediction on the CYBER 205 at the National Meteorological Center 10 p1559 N84-20211
Memory efficient solution of the primitive equations for numerical weather prediction on the CYBER 205 10 p1559 N84-20213

Simulation studies of proposed observing systems and their impact on numerical weather prediction
12 p1850 N84-22050
Evaluation of glass model precipitation forecasts for North America during SOP-1 12 p1850 N84-22051
Observing system simulation experiments related to space-borne Lidar wind profiling. Part 1: Forecast impacts of highly idealized observing systems
12 p1850 N84-22052
FGGE data impact studies in the Southern Hemisphere 12 p1850 N84-22054
SASS wind forecast impact studies using the GLAS and NEPRF systems: Preliminary conclusions
12 p1851 N84-22055
Effect of high latitude filtering on NWP skill
12 p1852 N84-22066
The effect of compact implicit differencing in a baroclinic primitive equations model 12 p1852 N84-22067
Computational aspects of the nonlinear normal mode initialization of the GLAS 4th order GCM
12 p1853 N84-22071
A user friendly operating system for the GLAS 4th order forecast-analysis system 12 p1853 N84-22072
Lagged average forecasting, some operational considerations 12 p1854 N84-22075
Predictability experiments using a low order empirically corrected dynamical model 12 p1854 N84-22077
Stratocumulus simulations with a general circulation model 12 p1856 N84-22090
Impact of prescribed diabatic heating on short range weather forecasts 12 p1858 N84-22107
Documentation of the GLAS fourth order general circulation model. Volume 1: Model documentation
[NASA-TM-86064-VOL-1] 14 p2179 N84-24048
Documentation of the GLAS fourth order general circulation model. Volume 2: Scalar code
[NASA-TM-86064-VOL-2] 14 p2179 N84-24049
Documentation of the GLAS fourth order general calculation model. Volume 3: Vectorized code for the Cyber 205
[NASA-TM-86064-VOL-3] 14 p2179 N84-24050
RANP: Stability Analysis Plot Program
[PB84-161447] 14 p2181 N84-24071
D-19 evaluating the height of tropospheric conduction of evaporation 15 p2325 N84-24962
Case studies of NOAA 6/TIROS N data impact on numerical weather forecasts 17 p2717 N84-27294
The impact of satellite temperature soundings on the forecasts of a small national meteorological service
17 p2717 N84-27295
The impact of scatterometer wind data on global weather forecasting 17 p2720 N84-27314
Outlook for improved numerical weather prediction using satellite data with a special emphasis on the hydrological variables
[AD-A141233] 18 p2890 N84-28344
Routine storm surge forecasting using numerical models: Procedures and computer programs for use on the CDC CYBER 205E at the British Meteorological Office
[IOS-167] 18 p2891 N84-28353
Objective analysis and prediction techniques, 1983
[AD-A142441] 20 p3245 N84-30599
Use of the tensor product for numerical weather prediction by the finite element method, part 1
[AD-A143273] 22 p3625 N84-32970
Use of the tensor product for numerical weather prediction by the finite element method, part 2
[AD-A144064] 23 p3802 N84-34108

NUTATION
A determination and analysis of polar motion
02 p0247 N84-11615
Effects of adopting new precession, nutation and equinox corrections on the terrestrial reference frame
07 p1029 N84-16670
Computing tides, nutations and tidally-induced variations in the Earth's rotation rate for a rotating, elliptical Earth
07 p1030 N84-16675
The mechanism of Ziegler-Natta polymerization of acetylene: A nutation NMR study
[AD-A137089] 10 p1468 N84-19588
Penn State Get Away Special
18 p2799 N84-27759
Contribution of pressure to the moment during spin-up on a nutating liquid-filled cylinder: Ad hoc model
[AD-A143678] 23 p3747 N84-33752

NUTATION DAMPERS
Nutation damper for the AMPTE-IRM satellite: Final Report
[NASA-TM-77330] 05 p0643 N84-14228
Suitability of viscoelastic materials for nutation damping of spin-stabilized satellites
[ILR-55] 09 p1272 N84-18307

NUTATIONAL OSCILLATION
U NUTATION

NUTRIENTS
Dissolved organic matter and lake metabolism: Biochemistry and controls of nutrient flux dynamics in lakes
[DE83-016789] 04 p0571 N84-13761
Biological processes in the water column of the South Atlantic Bight
[DE84-004336] 11 p1692 N84-21035
Modeling of water quality in Lake Michigan and the effect of the anomalous ice cover of 1976 - 1977
[PB84-167667] 16 p2511 N84-26115
Canyon and slope processes study. Volume 1: Executive summary
[PB84-169481] 17 p2738 N84-27391
Canyon and slope processes study. Volume 2: Physical processes
[PB84-169499] 17 p2738 N84-27392
Chesapeake Bay nutrient dynamics study
[PB84-190982] 20 p3229 N84-30524

NUTRITION
Metabolism and nutritional status in emergency situations without food supply or on a low-calorie diet
07 p1046 N84-16781
Methods and means of improving the working capability of flight personnel 11 p1694 N84-21051
Blood plasma free amino acids under hypokinetic conditions 20 p3253 N84-30648

NUTRITIONAL REQUIREMENTS
NT CALORIC REQUIREMENTS
The growth of paracoccus halodenitrificans in a defined medium
[NASA-TM-84411] 01 p0111 N84-10724
Aircraft crew diet in emergency situations
02 p0259 N84-11696

NUTS (FASTENERS)
Feasibility demonstration of booster cross-over system for 3 1/2 inch SRB/MLP frangible nut system
[NASA-CR-170895] 01 p0029 N84-10182
Novel technological solutions to treatment of threads in micrometric measuring tools
17 p2641 N84-26900
Testing and evaluation of Vespel up to 450 deg F when used in nuts and bolts as a self-locking element
[NASA-TM-86456] 21 p3412 N84-31639
Control and supervision of nut fastening by means of a microcomputer
[BMFT-FB-T-84-106] 23 p3757 N84-33818

NYLON (TRADEMARK)
Some considerations of the efficiency of sewn lap joints in a nylon webbing
[RAE-TR-83009] 03 p0355 N84-12310
Preliminary results of the effects of sewing, packing and parachute deployment on material strength
[DE84-006464] 13 p1927 N84-22541
High pressure melting and crystallization of Nylon-11
[AD-A138858] 13 p1964 N84-22760
Frictional hold of various sheave configurations on synthetic ropes
[AD-A139808] 15 p2343 N84-25067
Piezoelectric properties and ferroelectric hysteresis effects in unaxially stretched Nylon-11 films
[AD-A140683] 17 p2768 N84-27575
Textile ballistic performance (data base)
[AD-A143249] 22 p3560 N84-32541

NYLON RESINS
U POLYAMIDE RESINS

NYQUIST DIAGRAM
Representation of uncertainty and robustness tests for multivariable feedback systems
[OUEL-1517/84] 19 p3091 N84-29627
Extensions of the small-mu test for robust stability
[OUEL-1518/84] 19 p3091 N84-29628

NYQUIST FREQUENCIES
Nyquist frequency
[AD-A135023] 08 p1144 N84-17440

NYSTAGMUS
Occupational Medicine Relevant to Aviation Medicine
[AGARD-CP-341] 22 p3631 N84-33011
An unusual toxicological property of alcohol: The density effect on the organ of balance 22 p3632 N84-33016

O

O RING SEALS
Helium/solid powder o-ring leakage correlation experiments
[DE83-013773] 01 p0090 N84-10588
New fluorocarbon elastomers for seals for geothermal and other aggressive environments
[DE83-014424] 01 p0090 N84-10590
Resilient seal ring assembly with spring means applying force to wedge member --- cryogenic applications
[NASA-CASE-MFS-25678-1] 02 p0228 N84-11497
In-situ permeation tests of elastomeric O-ring seals
[DE83-015622] 03 p0356 N84-12318
Effects of fuels on the physical properties of nitrile rubber O-rings
[AD-A136647] 10 p1470 N84-19599
Fuel system O-ring leaks on post P.D.M. (Programmed Depot Maintenance) C-5A aircraft
[AD-A137885] 11 p1606 N84-20519
Attempt to study by ocular inspection the influence of rubber quality on the sealing effects of O-rings
[FOA-C-20526-E4] 16 p2498 N84-26030
Hybrid seal
[AD-D011083] 22 p3605 N84-32835

O STARS
Line profile variability in winds of OB stars
06 p0936 N84-18085
Theoretical studies of X-ray emission from supernova remnants and other non-equilibrium astrophysical plasmas
[NASA-CR-175394] 10 p1597 N84-20488
International ultraviolet explorer observations of Wolf-Rayet binaries: Wind structures
11 p1757 N84-21467
The emission line spectra of cataclysmic variable accretion disks 16 p2576 N84-26533
Spectral analysis of (very) hot stars: Methods and results 24 p3971 N84-35140

OAO
NT OAO 3

OAO 3
Copernicus observational searches for OH and H2O in diffuse clouds
[NASA-CR-170601] 02 p0305 N84-12004
Sounding rocket XUV observations of Capella
04 p0618 N84-14078
Ultraviolet studies of interstellar matter
23 p3839 N84-34356
Ultraviolet studies of the interstellar medium
24 p3970 N84-35137

OAO-C
U OAO 3

OBLATE SPHEROIDS
Wave drag of elongated astroid bodies at moderate supersonic flight velocities 13 p1972 N84-22797

OBLIQUE COORDINATES
Energization of ions by oblique double layers
04 p0561 N84-13700

OBLIQUE SHOCK WAVES
Two-dimensional supersonic expansion flows on walls with nonequilibrium condensation
08 p1096 N84-17125
Nonstationary oblique-shock-wave reflections in air
[UTIAS-270] 21 p3399 N84-31562

OBLIQUENESS
Focusers of obliquely incident laser radiation
21 p3487 N84-32099

OBSCURATION
U OCCULTATION

OBSERVATION
NT EARTH OBSERVATIONS (FROM SPACE)
NT SATELLITE OBSERVATION
NT SPACE OBSERVATIONS (FROM EARTH)
NT SPOT (FRENCH SATELLITE)
NT VISUAL OBSERVATION
Variations in task and the ideal observer
[DE83-015394] 03 p0416 N84-12723
An aid for using the Revised Uniform Summary of Surface Weather Observations (RUSSWOs)
[AD-A132186] 04 p0568 N84-13742
A predictive view of the detection of influential observations in Gmanova
[CSIR-TR-83] 04 p0591 N84-13904
Guide to meteorological instruments and methods of observation
[WMO-8] 08 p1191 N84-17764
Effect of the angle of observation and of surface roughness in the spectral behavior of soils under varied moisture conditions
[INPE-2777-RPE/436] 11 p1671 N84-20904
Estimating time averages via randomly-spaced observations
[AD-A139315] 14 p2214 N84-24295
Prediction of slant wind shear with an offset tower observation system
[AD-A142676] 20 p3246 N84-30600
Program for Regional Observing and Forecasting Services (PROFS)
[PB84-179928] 20 p3248 N84-30618
Thermistor chain observations during MILDEX (mixed layer dynamics experiment)
[AD-A143933] 23 p3803 N84-34114
Statistical method for the calculation of the coverage of the celestial sphere including Sun, Moon and Earth constraints (analysis document)
[MATRA-CMT-RT101/016] 23 p3839 N84-34354

OBSERVATION AIRCRAFT
NT MIRAGE AIRCRAFT
NT OV-1 AIRCRAFT
NT U-2 AIRCRAFT
OBSERVATORIES
NT ASTRONOMICAL OBSERVATORIES
NT GAMMA RAY OBSERVATORY
NT GEOPHYSICAL OBSERVATORIES
NT HEAO
NT HEAO 1
NT HEAO 2
NT OAO 3
NT ROSAT MISSION
NT SOLAR OBSERVATORIES
Upgrading and performance of the SAO laser ranging system in Matera
[NASA-CR-173176] 07 p1009 N84-16543
OBSIDIAN
NT MOLDAVITE
OBSTRUCTING
U BLOCKING
OCCLUSION
Prosthetic occlusive device for an internal passageway
[NASA-CASE-MFS-25740-1] 02 p0265 N84-11744
Experimental and clinical research on the effectiveness of ultrasound in vascular surgery
[ISSN-0208-5658] 19 p3084 N84-29442
OCCULTATION
NT SOLAR ECLIPSES
NT STELLAR OCCULTATION
The occultation of AG+29 deg 398 by 98 Minerva
[NASA-CR-173827] 20 p3319 N84-31066
Radio scintillations observed during atmospheric occultations of Voyager: Internal gravity waves at Titan and magnetic field orientations at Jupiter and Saturn
21 p3525 N84-32331
Statistical method for the calculation of the coverage of the celestial sphere including Sun, Moon and Earth constraints (analysis document)
[MATRA-CMT-RT101/016] 23 p3839 N84-34354
OCCUPATION
Chronic effects of repeated mechanical trauma to the skin: A description of the problem in the workplace
[PB84-181767] 20 p3261 N84-30695
OCCURRENCES
The variation of range type spread F occurrence with a solar cycle at Fortaleza and Cachoeira Paulista
[INPE-3209-PRE/566] 23 p3797 N84-34080
OCEAN BOTTOM
Marine manganese accretions: Nodule micronodule comparisons among major ocean basins
02 p0257 N84-11683
Geophysics and tectonic development of the Caroline Basin
[AD-A131314] 02 p0258 N84-11686
Geotechnical properties of deep sea sediments: A critical review of measurement techniques
[IOS-134] 02 p0258 N84-11689
Radar bathymetry : A review
03 p0400 N84-12612
Turn-around loss for oceanic sound on a bottom slope
[AUWE-TN-705/83] 03 p0430 N84-12818
The effect of noisy reflection data on an inverse method for determining the structure of a layered ocean bottom
[AD-A131976] 03 p0430 N84-12820
Marine seismic System(MSS) deployment. Phase IV: Investigation of techniques and deployment scenarios for installation of tri-axial seismometer in a borehole in the deep ocean
[AD-A132300] 04 p0563 N84-13710
Geoid anomalies and fracture zones in the Pacific Ocean
[E84-10052] 05 p0696 N84-14572
The numerical synthesis and inversion of acoustic fields using the Hankel transform with application to the estimation of the plane wave reflection coefficient of the ocean bottom
[AD-A133156] 06 p0908 N84-15901
Cruises undertaken by the Institute of Oceanographic Sciences, Taufon, 1981
[IOS-133] 07 p1041 N84-16753
Wave propagation study of the central Mediterranean Sea using ocean bottom seismometers
[AD-A135484] 08 p1195 N84-17790
Statistical aspects of ice gouging on the Alaskan Shelf of the Beaufort Sea
[AD-A134428] 08 p1196 N84-17798
Acoustic data and uncertainty in geotechnical site characterization offshore
[PB84-100906] 08 p1196 N84-17801
Development of an advanced ocean-bottom sensor system
[AD-A135901] 09 p1345 N84-18788
Ray modeling methods for range dependent ocean environments
[AD-A137202] 10 p1569 N84-20278
Piezometer probe technology for geotechnical investigations in coastal and deep-ocean environments
[AD-P002689] 11 p1659 N84-20824
Seismological measurements on ocean floor
11 p1670 N84-20896
Spectral analyses of high-frequency Pn, Sn phases from very shallow focus earthquakes
[AD-A137778] 11 p1681 N84-20973
Development of composite fiber-optic electric-power umbilical cable and optical feedthrough for deep ocean mining 11 p1722 N84-21231
SeaMARC 2 side-scan images of submarine volcanoes: Potential analogues for Venus 11 p1754 N84-21452
Venus analogues on the Earth's ocean floor(?): Volcanic terrains seen by SeaMARC 2 side scan sonar
11 p1755 N84-21456
Stresses in a submarine topography under ocean waves
[DE84-005722] 12 p1863 N84-22139
Acoustic exploration of ocean floor properties based on the ringing of sediment layer resonances
[AD-A138245] 12 p1899 N84-22367
Surface wave propagation over sinusoidally varying topography: Theory and observation
[IOS-159-PT-1] 13 p1991 N84-22922
Surface wave propagation over sinusoidally varying topography: Theory and observation
[IOS-159-PT-2] 13 p1991 N84-22923
Sedimentary facies on an ice dominated shelf, Beaufort Sea, Alaska 14 p2165 N84-23967
Preliminary study of microtektites first discovered in the central Pacific by China
[NASA-TM-77470] 14 p2250 N84-24514
Relating geoid anomalies, gravity anomalies and ocean topography
[AD-A140112] 15 p2354 N84-25127
Classification of coastal environments, shorezone profile dynamics
[AD-A139947] 15 p2373 N84-25240
Microanalytical study of some cosmic dust discovered in sea-floor sediments in China
[NASA-TM-77409] 16 p2504 N84-26068
Georges Bank monitoring program: Analysis of trace metals in bottom sediments during the second year of monitoring
[PB84-169465] 16 p2534 N84-26269
Error analysis for marine geodetic control using the global positioning system
[AD-A140566] 17 p2605 N84-26687
A critical assessment of viscous models of trench topography and corner flow
[NASA-CR-173648] 17 p2667 N84-27005
Trapped topographic waves in Baltic Sea
17 p2698 N84-27186
Asymptotic form of solution of problem of seasonal evolution of thermal regime in ocean
17 p2699 N84-27194
On the detection of underwater bottom topography by imaging radars 17 p2718 N84-27301
Modeling of SAR signatures of shallow water ocean topography 17 p2718 N84-27302
Interpretative analysis of surficial sediments as an aid in transport studies of dredged materials Cape Canaveral, Florida
[AD-A140759] 17 p2724 N84-27339
Canyon and slope processes study. Volume 1: Executive summary
[PB84-169481] 17 p2738 N84-27391
Canyon and slope processes study. Volume 2: Physical processes
[PB84-169499] 17 p2738 N84-27392
Canyon and slope processes study. Volume 3: Biological processes
[PB84-169507] 17 p2738 N84-27393
Peridotites of the Khizen Fault (Southeastern Pacific Ocean) 18 p2857 N84-28145
Density model of upper mantle under oceans
18 p2858 N84-28147
Changes in relative instantaneous spreading rates in the Indian Ocean 18 p2858 N84-28149
Tectonic and magmatic rock of central Pacific Ocean
18 p2858 N84-28150
Symposium Proceedings: A National program for the assessment and development of the mineral resources of the United States Exclusive Economic Zone
[US-CIRC-929] 18 p2866 N84-28192
Chapter 6: The US Geological Survey program and plans in the EEZ 18 p2866 N84-28193
Panel 1A: Geologic studies related to oil and gas development in the EEZ 18 p2866 N84-28194
Panel 1B: Assessment and scientific understanding of hard mineral resources in the EEZ
18 p2866 N84-28195
Panel 2B: Engineering-technology assessment, hard minerals 18 p2866 N84-28197
Inversion of the acoustic plane wave reflection response of a layered ocean bottom
[AD-A132794] 18 p2928 N84-28570
Bottom-mounted profiling winch
[AD-A141808] 19 p3032 N84-29230
Seismological Research on the World Ocean
[REPT-9279] 19 p3059 N84-29411
The seismological investigations of the World Ocean: The state of the problem 19 p3059 N84-29412
Ocean bottom seismic equipment
19 p3060 N84-29413
The system of time service for ocean bottom seismic observations 19 p3060 N84-29414
Ocean bottom seismograph operation: Certain problems of procedure 19 p3060 N84-29415
Seismological investigations in the Indian Ocean by autonomous OBS 19 p3060 N84-29416
Seismological observations during the I and II Soviet-American expeditions for tsunami study in the open sea 19 p3060 N84-29417
T-phase recording by OBS near the conjugation of the Kuril and Japan trenches 19 p3060 N84-29418
The seismicity of the continental slope of the Kuril trench from the OBS observations 19 p3061 N84-29420
On the elastic wave velocity distribution beneath the continental slope of the Kuril trench
19 p3061 N84-29421
Seismicity of the North-Eastern Sakhalin shelf
19 p3061 N84-29422
Seismicity of Iceland and the adjoining region of the Atlantic Ocean 19 p3061 N84-29423
Influence of horizontally-random bottom structure on acoustic intensity in a shallow ocean
[AD-A141383] 19 p3099 N84-29668
Structure of ocean floor in relation to conditions for formation of lithosphere 20 p3223 N84-30484
Environmental geologic studies on the United States mid- and north Atlantic outer continental shelf area, 1980-1982. Volume 1: Executive summary
[PB84-187939] 20 p3252 N84-30639
Environmental geologic studies on the United States mid- and north Atlantic outer continental shelf area, 1980-1982. Volume 2: Mid-Atlantic region
[PB84-187947] 20 p3252 N84-30640
Undersea acoustic research
[AD-A142339] 20 p3291 N84-30891
King's Trough Flank: Geological and geophysical investigations of its suitability for high-level radioactive waste disposal
[IOS-166] 20 p3299 N84-30950
A pioneer deep ocean mining venture
[PB84-199645] 21 p3433 N84-31780
Convergence tectonics of the Peru Trench: 8 deg S - 15 deg S latitude 21 p3440 N84-31824
Microfacies, depositional models and diagenesis of Lagoa Feia Formation (lower cretaceous), Campos Basin, offshore Brazil 21 p3440 N84-31827
Marine Seismic System (MSS) deployment. Phase 5: An investigation of techniques and deployment scenarios for installation of triaxial seismometer in a borehole in the deep ocean
[AD-A142873] 21 p3444 N84-31850
Deep-Towed Array Geophysical System (DTAGS): A hardware description
[AD-A142970] 21 p3444 N84-31851
An active remote sensing system to map location of underwater oil seeps 23 p3781 N84-33974
Strain release along ocean transform faults
24 p3918 N84-34804
OCEAN COLOR SCANNER
Remote sensing experiments on Spacelab and STS
08 p1175 N84-17655
Feasibility study of advanced optical techniques for ocean color measurement — satellite-borne
[MBB-R3700/292] 12 p1837 N84-21974
Feasibility study on the application of Fabry-Perot interferometry and imaging photon detectors to ocean colour monitoring
[OMD/HVM-83] 23 p3784 N84-34002
Ocean Color Working Group report to ESA Observation Advisory Committee
[ESA-BR-20] 23 p3785 N84-34003
OCEAN CURRENTS
NT COASTAL CURRENTS
Multifrequency HF radar observations of currents and current shears
[AD-A131528] 01 p0067 N84-10439
Geophysical Fluid Dynamics Laboratory activities FY1982, plans-FY1983
[PB83-232827] 01 p0101 N84-10657
On surface circulation of the eastern north Pacific
02 p0257 N84-11682
Adjustment in the oceans: The long-period tides and coastal upwelling 03 p0413 N84-12702

A variational method for estimating the general circulation in the ocean
[AD-A132219] 04 p0550 N84-13626
A satellite study of ocean internal waves
[PB83-248708] 04 p0556 N84-13661
Baroclinic Rossby wave signature in a general circulation ocean model
[AD-A132219] 04 p0569 N84-13750
Ocean mixing and circulation response in the marginal ice zone
[AD-A132174] 04 p0569 N84-13751
Winter currents on the eastern Bering Sea shelf
[PB83-248823] 04 p0570 N84-13753
Propagation of weakly-nonlinear surface water waves in regions with varying depth and current
[AD-A132593] 05 p0711 N84-14657
Ocean wave imaging by SAR
06 p0867 N84-15649
Ionospheric factors affecting the performance of HF sky-wave sea-state radars 06 p0868 N84-15656
The Canadian programme of experimental measurement of sea-state characteristics by sky-wave radar
06 p0869 N84-15657
The nature of microwave backscattering from water waves 06 p0870 N84-15665
The long term upper ocean study (LOTUS). Cruise summary and hydrographic data report, ENDEAVOR 97, April 1983
[AD-A134005] 06 p0883 N84-15745
Short-term measurements of surface currents associated with the Alboran Sea during Donde Va?
[AD-A133812] 06 p0884 N84-15750
XCP measurements off California in October 1982: Cruise report and preliminary results
[AD-A133051] 06 p0885 N84-15754
Tidal effects in geodetic observations
07 p1030 N84-16676
Transport processes in the central equatorial Atlantic and their influence on the heat content
[REPT-113] 07 p1041 N84-16752
Cruises undertaken by the Institute of Oceanographic Sciences, Tauton, 1981
[IOS-133] 07 p1041 N84-16753
Ocean research for understanding climatic variations: Priorities and goals for the 1980's
[PB84-105816] 08 p1192 N84-17766
Nearshore current model workshop summary
[AD-A134702] 08 p1195 N84-17791
A compilation of moored current meter data from the western North Pacific. Volume 31, 1980 - 1982
[AD-A134234] 08 p1196 N84-17796
The Grand Banks experiment: A satellite/aircraft/ship experiment to explore the ability of specialized radars to define ocean fronts
[AD-A136181] 09 p1304 N84-18522
A model for tidal circulation adapted to Monterey Bay, California
[AD-A135077] 09 p1351 N84-18827
Comparisons of Naval Air Station, NOWRA oceanographic analyses with independently obtained ship and satellite data
[AD-A136462] 10 p1526 N84-19994
The Role of Eddies in the General Ocean Circulation: Proceedings of Aha Huliko's Hawaiian Winter Workshop
[AD-A137212] 11 p1689 N84-21014
Waves and circulation driven by oscillatory winds in an idealized ocean basin
[AD-P002650] 11 p1689 N84-21015
Recent work and thoughts on eddy-mean flow interaction
[AD-P002651] 11 p1689 N84-21016
Estimation and prediction of oceanic eddy fields
[AD-P002652] 11 p1689 N84-21017
Oceanic mesoscale variability and general circulation from satellite altimetry: A status report
[AD-P002653] 11 p1689 N84-21018
Eddy: Mean flow interaction diagnostics
[AD-P002654] 11 p1690 N84-21019
Simulation of midlatitude variability
[AD-P002655] 11 p1690 N84-21020
Ventilated and unventilated models of the wind-driven circulation
[AD-P002657] 11 p1690 N84-21022
Hamilton's principle as the basis for ocean circulation models
[AD-P002658] 11 p1690 N84-21023
On the driving of ocean currents by Rossby waves
[AD-P002659] 11 p1690 N84-21024
Observational evidence for an eddy-driven deep circulation in the North Atlantic
[AD-P002660] 11 p1690 N84-21025
On the mean dynamical balances of the Gulf Stream Recirculation Zone
[AD-P002661] 11 p1691 N84-21026
Studies of the velocity structure of the Gulf Stream east of Cape Hatteras
[AD-P002663] 11 p1691 N84-21028
Eddy heat flux in the North Pacific
[AD-P002666] 11 p1691 N84-21031
The west spitsbergen current: Transport, forcing, and variability
[AD-A137532] 11 p1691 N84-21032
Application of marine acoustic systems
[PB84-141381] 11 p1692 N84-21037
Topex: Observing the oceans from Space
[NASA-CR-173490] 13 p2018 N84-23085
A one dimensional model for the study of upwelling
[INPE-2935-RPE/445] 13 p2018 N84-23086
Upper ocean shear during JASIN: A deterministic and statistical analysis
[AD-A139077] 14 p2183 N84-24082
Preliminary report of HF (High-Frequency) radar measurements of surface currents East of the Strait of Gilbraltar near Marbella, Spain: October 7-22, 1982, part 1
[PB84-154244] 14 p2183 N84-24083
Current velocity profiles in the Straits of Florida from the Pegegus current profiler: Subtropical Atlantic Climate Study 1982
[PB84-154335] 14 p2183 N84-24084
Benthic boundary layer: IOS observational programme
[IOS-163] 15 p2372 N84-25232
Research in oceanography
[AD-A139890] 15 p2373 N84-25237
Observations of inertio-gravity waves in the wake of Hurricane Frederic
[AD-A139944] 15 p2373 N84-25239
Observations of sea surface conditions during WEAP (Weapons Environmental Acoustics Program) experiment, May 1982: An example of real-time monitoring of the upper ocean environment
[AD-A140021] 15 p2374 N84-25241
Seasonal oscillations of the subtropical convergence between the Brazil and Malvinas currents, using oceanographic and SMS-2 satellite data
[INPE-3092-PRE/497] 16 p2532 N84-26255
Self-similar regimes of nonstationary turbulent convection 17 p2698 N84-27185
Trapped topographic waves in Baltic Sea
17 p2698 N84-27186
Seasonal variability of surface currents in world ocean
17 p2698 N84-27188
Shelf waves in presence of currents and stability of boundary currents 17 p2699 N84-27193
Forming of upper homogeneous layer in Mediterranean basin 17 p2699 N84-27195
Frontiers of Remote Sensing of the Oceans and Troposphere from Air and Space Platforms
[NASA-CP-2303] 17 p2711 N84-27262
On the response to ocean surface currents in synthetic aperture radar imagery 17 p2718 N84-27304
The depiction of Alboran Sea Gyre during Donde Va? using remote sensing and conventional data
17 p2719 N84-27306
Somali current studied from SEASAT altimetry
17 p2719 N84-27307
Simulation and assimilation of satellite altimeter data at the oceanic mesoscale 17 p2720 N84-27312
The importance of altimeter and scatterometer data for ocean prediction 17 p2720 N84-27316
Sampling strategies and four-dimensional assimilation of altimetric data for ocean monitoring and prediction
17 p2721 N84-27317
A compilation of moored current meter data from the region of the North Pacific boundary current, volume 33
[AD-A140687] 17 p2737 N84-27389
Canyon and slope processes study. Volume 1: Executive summary
[PB84-169481] 17 p2738 N84-27391
Canyon and slope processes study. Volume 2: Physical processes
[PB84-169499] 17 p2738 N84-27392
Canyon and slope processes study. Volume 3: Biological processes
[PB84-169507] 17 p2738 N84-27393
Underwater laser anemometer for measuring ocean currents 18 p2857 N84-28141
Comments on atmospheric boundary layer forcing of ocean models, appendix J 18 p2885 N84-28305
Some comments on the atmospheric boundary layer over the ocean and its parameterization, appendix K
18 p2885 N84-28306
Empirical and dynamic modes in the CCS (California current system)
[AD-A141047] 18 p2892 N84-28357
First- and second-phase gravity field solutions based on satellite altimetry
[AD-A142256] 19 p3054 N84-29361
Oceanic transport 20 p3218 N84-30444
Ocean circulation studies 20 p3222 N84-30469
USSR report: Earth sciences
[JPRS-UES-84-006] 20 p3223 N84-30479
Propagating long waves on oceanic density fronts: An analytic model
[AD-A141915] 20 p3250 N84-30628
Preliminary report of HF radar measurements of surface currents east of the Strait of Gibraltar near Marbella, Spain, 7-22 October 1982, part 2
[PB84-183664] 20 p3251 N84-30637
Large-scale atmosphere-ocean coupling
[AD-A143162] 21 p3447 N84-31873
Expendable current profiler (XCP, Mod 7)
[AD-A142936] 21 p3451 N84-31897
Global Observations and Understanding of the General Circulation of the Oceans
[NASA-CR-173905] 22 p3627 N84-32966
High-frequency acoustic backscatter from the sea surface
[AD-A143536] 22 p3652 N84-33152
Shelf circulation studies on the northeastern United States Continental Shelf 23 p3803 N84-34111
Arctic physical oceanography
[AD-A144596] 24 p3935 N84-34909

OCEAN DATA ACQUISITIONS SYSTEMS

The role of the geoid in high precision geodesy and oceanography
[SER-A-96] 02 p0235 N84-11540
Real-time processing system for the NRL (Naval Research Laboratory) remote sensing experiment: Phelps Bank, July 1982
[AD-A132151] 04 p0553 N84-13645
Long term upper ocean study (LOTUS) at 34 deg N, 70 deg W: Meteorological sensors, data and heat fluxes for May-October 1982 (LOTUS-3 and LOTUS-4)
[AD-A133883] 05 p0711 N84-14659
An analysis of aircraft data collected in the Alboran Sea during Donde Va?, 6 - 18 October 1982
[AD-A133995] 06 p0883 N84-15746
Handling and processing of hydrographic data
[REPT-111] 07 p1041 N84-16751
Cruises undertaken by the Institute of Oceanographic Sciences, Tauton, 1981
[IOS-133] 07 p1041 N84-16753
Videopolarimetry of water surfaces
[BMFT-FB-W-83-020] 07 p1075 N84-16990
The first European Remote Sensing Satellite (ERS-1): Overall description, potential applications and users
08 p1175 N84-17654
The remote sensing of oil pollution at sea: An attempt at synthesis 08 p1176 N84-17662
Development of an advanced ocean-bottom sensor system
[AD-A135901] 09 p1345 N84-18788
Developments in science and technology
[JHU/APL/DST-10] 11 p1761 N84-21491
Feasibility study of advanced optical techniques for ocean color measurement — satellite-borne
[MBB-R3700/292] 12 p1837 N84-21974
Satellite data relay and platform locating in oceanography. Report of the in Situ Ocean Science Working Group
[NASA-TM-85443] 12 p1880 N84-22116
Airborne lidar for oceanography and hydrology (FLOH)
[ESA-TT-799] 13 p1996 N84-22955
Comparisons of sea-surface temperature obtained from ship and satellite data
[AD-A136257] 13 p2018 N84-23087
Integrated Global Ocean Services System (IGOSS): Guide to the IGOSS data processing and services system
[WMO-623] 13 p2019 N84-23089
Observations of sea surface conditions during WEAP (Weapons Environmental Acoustics Program) experiment, May 1982: An example of real-time monitoring of the upper ocean environment
[AD-A140021] 15 p2374 N84-25241
Recent advances in multispectral sensing of ocean surface temperature from space
17 p2717 N84-27297
The rapid sampling vertical profiler MILDEX, October-November 1983
[AD-A140965] 18 p2892 N84-28356
FOA-SUB underwater vehicle system: A brief description of the system and its state, Spring 1984
[FOA-C-20536-E1(E3)] 19 p3003 N84-29030
Seismological Research on the World Ocean
[REPT-9279] 19 p3059 N84-29411
Ocean bottom seismic equipment
19 p3060 N84-29413
The system of time service for ocean bottom seismic observations 19 p3060 N84-29414
Seismological investigations in the Indian Ocean by autonomous OBS 19 p3060 N84-29416
Wave force investigations at the second Christchurch Bay Tower
[NMI-R177] 20 p3250 N84-30626
Geophysical use of the data of the ERS-1 altimeter
23 p3776 N84-33943

NASA scatterometer on NROSS: A system for global observations of oceanic winds — Navy Remote Ocean Sensing System (NROSS) 23 p3782 N84-33980
Spectrasat: A concept for the collection of global directional wave spectra 23 p3782 N84-33981
The Navy Geosat mission radar altimeter satellite program 23 p3782 N84-33982
Ocean Color Working Group report to ESA Observation Advisory Committee
[ESA-BR-20] 23 p3785 N84-34003

OCEAN DATA PLATFORMS
U OCEAN DATA ACQUISITIONS SYSTEMS

OCEAN DATA STATIONS
U OCEAN DATA ACQUISITIONS SYSTEMS

OCEAN DYNAMICS
The role of the geoid in high precision geodesy and oceanography
[SER-A-96] 02 p0235 N84-11540
On surface circulation of the eastern north Pacific 02 p0257 N84-11682
Contributions of remote sensing satellite tracking techniques to marine environment monitoring and marine applications 03 p0396 N84-12585
A variational method for estimating the general circulation in the ocean 04 p0550 N84-13626
Baroclinic Rossby wave signature in a general circulation ocean model
[AD-A132219] 04 p0569 N84-13750
900 km of digital ocean wave spectra from the SEASAT SAR 07 p0990 N84-16415
Cruises undertaken by the Institute of Oceanographic Sciences, Tauton, 1981
[IOS-133] 07 p1041 N84-16753
Design of coupled ocean-atmosphere experiments 12 p1856 N84-22093
Sea level variations and ocean dynamics in the Aleutian Islands
[AD-A139421] 14 p2183 N84-24079
Shelf waves in presence of currents and stability of boundary currents 17 p2699 N84-27193
Forming of upper homogeneous layer in Mediterranean basin 17 p2699 N84-27195
Cross-spectral analysis of atmospheric pressure microfluctuations and low-frequency sea level changes 17 p2699 N84-27196
Supercritical regimes in Rossby wave propagation 17 p2700 N84-27197
Quasibiennial cycle of thermodynamic atmosphere-ocean interaction in North Atlantic 17 p2700 N84-27198
Wave climate synthesis using NMIMET: A trilogy of published papers
[NMI-R-167] 18 p2855 N84-28127
Assessment of a new global capability for wave climate synthesis 18 p2855 N84-28128
Ocean Wave Statistics: A new look 18 p2855 N84-28129
Wave climate synthesis worldwide 18 p2855 N84-28130
Development of upper mixed ocean layer with increase in stability and in presence of wind 18 p2857 N84-28143
Evaluating parameters of vertical exchange of ocean waters by radioisotopic methods 18 p2858 N84-28146
Some comments on the atmospheric boundary layer over the ocean and its parameterization, appendix K 18 p2885 N84-28306
Sedimentation studies relevant to low-level radioactive effluent dispersal in the Irish Sea. Part 3: An evaluation of possible mechanisms for the incorporation of radionuclides into marine sediments
[IOS-178] 19 p3062 N84-29431
Oceanic transport 20 p3218 N84-30444
Sea ice 20 p3218 N84-30446
On the hydrodynamic corrections of SEASAT-ALT data and geodynamic application 23 p3777 N84-33945
Report of the Second Session of the JSC/CCCO WOCE Scientific Steering Group
[WCP-81] 23 p3801 N84-34102

OCEAN MODELS
Baroclinic Rossby wave signature in a general circulation ocean model
[AD-A132219] 04 p0569 N84-13750
Ocean mixing and circulation response in the marginal ice zone
[AD-A132174] 04 p0569 N84-13751
On the unsteady response of an oceanic front to local atmospheric forcing
[AD-A132215] 05 p0708 N84-14637
Elliptic solvers for NORDA ocean models and a quasi-geostrophic regional eddy-mean energetics package
[AD-A133754] 06 p0884 N84-15751
Results from a two-layer and a reduced gravity model of the Alboran Sea; and vertical shear from tops
[AD-A133753] 06 p0884 N84-15752
900 km of digital ocean wave spectra from the SEASAT SAR 07 p0990 N84-16415
Benthic boundary layer - IOS modelling programme
[IOS-162] 07 p1074 N84-16983
Ocean modelling on the CYBER 205 at GFDL 10 p1559 N84-20212
Design of coupled ocean-atmosphere experiments 12 p1856 N84-22093
Nimbus 7 SMMR derived seasonal variations in the water vapor, liquid water and surface winds over the global oceans
[NASA-TM-86060] 16 p2528 N84-26233
Modeling seasonal evolution of thermal regime of ocean-atmosphere system 17 p2697 N84-27181
Asymptotic form of solution of problem of seasonal evolution of thermal regime in ocean 17 p2699 N84-27194
Forming of upper homogeneous layer in Mediterranean basin 17 p2699 N84-27195
Synthetic aperture radar images of ocean waves, theories of imaging physics and experimental tests 17 p2714 N84-27275
Optimum backscatter cross section of the ocean as measured by synthetic aperture radars 17 p2714 N84-27276
Tracking ocean wave spectrum from SAR images 17 p2714 N84-27277
On the detection of underwater bottom topography by imaging radars 17 p2718 N84-27301
The importance of altimeter and scatterometer data for ocean prediction 17 p2720 N84-27316
Sampling strategies and four-dimensional assimilation of altimetric data for ocean monitoring and prediction 17 p2721 N84-27317
The influence of actual and apparent geoid error on ocean analysis and prediction 17 p2721 N84-27318
Development of upper mixed ocean layer with increase in stability and in presence of wind 18 p2857 N84-28143
Evaluating parameters of vertical exchange of ocean waters by radioisotopic methods 18 p2858 N84-28146
Prognostic relationships for surface temperature anomalies in northern part of Pacific Ocean 18 p2858 N84-28148
Modeling kinetics of aerodisperse phase in ocean surface layer 18 p2859 N84-28153
Elliptic solvers for Mediterranean Sea ocean modeling
[AD-A142306] 19 p3062 N84-29429
Sea ice 20 p3218 N84-30446
Mechanisms of interannual ocean-atmosphere interactions
[NASA-CR-173634] 20 p3245 N84-30595
Propagating long waves on oceanic density fronts: An analytic model
[AD-A141915] 20 p3250 N84-30628
A synoptic case study analysis of the ocean temperature anomalies in the central Pacific region, 1976 - 1979
[AD-A142548] 20 p3251 N84-30631
A three-dimensional description of the sea surface by means of marine navigation radar 23 p3771 N84-33906
On the hydrodynamic corrections of SEASAT-ALT data and geodynamic application 23 p3777 N84-33945
Report of the Second Session of the JSC/CCCO WOCE Scientific Steering Group
[WCP-81] 23 p3801 N84-34102

OCEAN SURFACE
Interaction of the radar waves with the capillary waves on the ocean
[AD-A129690] 01 p0064 N84-10421
Multifrequency HF radar observations of currents and current shears
[AD-A131528] 01 p0067 N84-10439
Measured ionospheric Doppler spreading of HF ground backscatter
[PB83-220764] 01 p0068 N84-10446
Microwave backscattering from short gravity waves. A deterministic, coherent and dual-polarized laboratory study
[AD-A131217] 01 p0111 N84-10719
Geodynamics Branch research report, 1982
[NASA-TM-85078] 02 p0233 N84-11527
Variations of ocean surfaces from ERS-1 altimeter data for repetitive orbits 02 p0233 N84-11532
The role of the geoid in high precision geodesy and oceanography
[SER-A-96] 02 p0235 N84-11540
Maps of favorable areas for tuna fishing in the southwestern Atlantic prepared from satellite data
[INPE-2891-PRE/410] 02 p0239 N84-11565
Contributions of remote sensing satellite tracking techniques to marine environment monitoring and marine applications 03 p0396 N84-12585
Ocean color studies from Salyut-7 05 p0633 N84-14164
The dependence of the radar modulation transfer function on environmental conditions and wave parameters (A contribution to studies of radar backscattering from the sea surface). Revision
[AD-A133064] 05 p0670 N84-14408
On the unsteady response of an oceanic front to local atmospheric forcing
[AD-A132215] 05 p0708 N84-14637
A statistical approach for determining subsurface thermal structure from sea surface temperature in the northeast Pacific Ocean
[AD-A132204] 05 p0711 N84-14658
The nature of microwave backscattering from water waves 06 p0870 N84-15665
Multiple paths on the ocean surface 06 p0870 N84-15666
An analysis of aircraft data collected in the Alboran Sea during Donde Va?, 6 - 18 October 1982
[AD-A133995] 06 p0883 N84-15746
Mechanisms for SAR imaging of ocean surface phenomena: Theory and experiment 07 p0990 N84-16416
Reports of the U.S. - U.S.S.R. Weddell Polynya Expedition, October-November 1981. Volume 7. Surface-level meteorological data
[AD-A134476] 07 p1041 N84-16747
Sea state monitoring and applications 08 p1176 N84-17665
Estimation of parameters of spray clouds
[BLL-TRANS-1571-(9022.552)] 08 p1190 N84-17752
A determination of the constants for a second-order closure turbulence model from geophysical data
[AD-A134826] 08 p1195 N84-17795
A comparison of moisture and temperature fields derived from meteorological satellite vertical sounding (NOAA-TOVS) data with Rawinsonde data, part 2 09 p1347 N84-18798
Analysis of SEASAT wind observations in the Gulf of Mexico and the Caribbean Sea
[PB84-131309] 09 p1350 N84-18824
Swirls and plumes or application of statistical methods to satellite-derived sea surface temperatures
[AD-A135462] 10 p1528 N84-20010
Theoretical and experimental analysis of laser altimeters for barometric measurements over the ocean
[NASA-CR-175443] 11 p1682 N84-20842
The effect of vertical datum inconsistencies on the determination of gravity related quantities
[AD-A137881] 11 p1682 N84-20978
Satellite-Derived Sea Surface Temperature: Workshop 1
[NASA-CR-173450] 12 p1834 N84-21955
Satellite-derived sea surface temperature: Introduction 12 p1834 N84-21956
Analysis techniques 12 p1834 N84-21957
In situ data 12 p1835 N84-21959
Satellite data 12 p1835 N84-21960
Comparison of satellite and in situ data 12 p1835 N84-21961
Conclusions and recommendations 12 p1835 N84-21962
Sea surface temperatures from the Nimbus-7 scanning multichannel microwave radiometer 12 p1835 N84-21963
NOAA satellite-derived operational sea surface temperature products 12 p1835 N84-21965
Measurement of sea surface temperature from HIRS2/MSU 12 p1836 N84-21966
Use of VAS multispectral data for sea surface temperature determination 12 p1836 N84-21967
Pilot Ocean Data System (PODS) file format specifications 12 p1836 N84-21968
Three-way partitioning of sea surface temperature measurement error 12 p1836 N84-21969
Determination of sea surface temperatures from high resolution infrared satellite measurements
[REPT-115] 12 p1837 N84-21975
Ocean fluxes simulated by the GLAS GCM 12 p1855 N84-22085
GCM sensitivity to 1982 - 1983 equatorial Pacific sea surface temperature anomalies 12 p1858 N84-22106
Topex: Observing the oceans from Space
[NASA-CR-173490] 13 p2018 N84-23085
Comparisons of sea-surface temperature obtained from ship and satellite data
[AD-A138257] 13 p2018 N84-23087
Wind, waves and swell in the Antarctic marginal ice zone by SEASAT radar altimeter 14 p2161 N84-23941

Observations of sea surface conditions during WEAP (Weapons Environmental Acoustics Program) experiment, May 1982: An example of real-time monitoring of the upper ocean environment
[AD-A140021] 15 p2374 N84-25241
The use of satellite observations of the ocean surface in commercial fishing operations
[AD-P003120] 16 p2533 N84-26261
Fractionation of chemical elements at ocean-atmosphere interface 17 p2698 N84-27189
Influence of wind on rate of gas exchange through ocean-atmosphere interface 17 p2699 N84-27190
Cross-spectral analysis of atmospheric pressure microfluctuations and low-frequency sea level changes 17 p2699 N84-27196
Does the scatterometer see wind speed or friction velocity? 17 p2713 N84-27270
Ocean wind field measurement performance of the ERS-1 scatterometer 17 p2713 N84-27273
Theory and measure of certain image norms in SAR 17 p2713 N84-27274
Synthetic aperture radar images of ocean waves, theories of imaging physics and experimental tests 17 p2714 N84-27275
Optimum backscatter cross section of the ocean as measured by synthetic aperture radars 17 p2714 N84-27276
Tracking ocean wave spectrum from SAR images 17 p2714 N84-27277
SAR imagery of ocean-wave swell traveling in an arbitrary direction 17 p2714 N84-27278
Ocean waves and turbulence as observed with an adaptive coherent multifrequency radar 17 p2714 N84-27279
The dual-frequency scatterometer reexamined 17 p2714 N84-27280
An improved dual-frequency technique for the remote sensing of ocean currents and wave spectra 17 p2714 N84-27281
Measurements of ocean wave spectra and modulation transfer function with the airborne two frequency scatterometer 17 p2715 N84-27282
Some case studies of ocean wave physical processes utilizing the GSFC airborne radar ocean wave spectrometer 17 p2715 N84-27283
Microwave remote sensing of ocean surface wind speed and rain rates over tropical storms 17 p2716 N84-27288
Recent advances in multispectral sensing of ocean surface temperature from space 17 p2717 N84-27297
Satellite techniques for determining the geopotential for sea-surface elevations 17 p2717 N84-27298
On the response to ocean surface currents in synthetic aperture radar imagery 17 p2718 N84-27304
Variations in surface current off the coasts of Canada as inferred from infrared satellite imagery 17 p2719 N84-27305
Sampling strategies and four-dimensional assimilation of altimetric data for ocean monitoring and prediction 17 p2721 N84-27317
The influence of actual and apparent geoid error on ocean analysis and prediction 17 p2721 N84-27318
Ocean optical remote sensing capability statement
[AD-A140589] 17 p2721 N84-27321
Response of an atmospheric prediction model to time-dependent sea-surface temperatures
[AD-A140730] 17 p2734 N84-27377
Speckle statistics in radar images of sea surface obtained with horizontal polarization 18 p2823 N84-27921
Development of upper mixed ocean layer with increase in stability and in presence of wind 18 p2857 N84-28143
Evaluating parameters of vertical exchange of ocean waters by radioisotopic methods 18 p2858 N84-28146
Prognostic relationships for surface temperature anomalies in northern part of Pacific Ocean 18 p2858 N84-28148
Modeling kinetics of aerodisperse phase in ocean surface layer 18 p2859 N84-28153
Observing ocean-atmosphere exchanges with space-borne sensors, appendix C 18 p2884 N84-28298
Surface and atmospheric boundary layer. Observations from ships, appendix D 18 p2884 N84-28299
The use of observational studies in the design of oceanic atmospheric boundary layer parameterizations in atmospheric circulation models, appendix E 18 p2884 N84-28300
Satellite-Derived Sea Surface Temperature: Workshop-2
[NASA-CR-173740] 18 p2892 N84-28355
WAZP observations during MILDEX October-November 1983
[AD-A141048] 18 p2893 N84-28358
Microwave radiometric measurement of sea surface salinity
[AD-A141302] 18 p2893 N84-28359
Project Noordwijk, part 5: Analysis of the fading component of the radar backscatter
[AD-B083044] 19 p3010 N84-29082
Nordsee radar backscatter measurements data report
[AD-A141914] 20 p3173 N84-30148
Research activities of the Geodynamics Branch
[NASA-TM-86123] 20 p3220 N84-30455
Ocean circulation studies 20 p3222 N84-30469
Global mean sea surface based upon SEASAT altimeter data 20 p3222 N84-30470
Interpreting spectra of sea surface aerial photographs 20 p3225 N84-30494
US Navy hindcast spectral ocean wave model climatic atlas: North Atlantic Ocean
[AD-A141810] 20 p3250 N84-30627
Interannual variability in sea-surface temperature at one location along the central California coast
[AD-A142553] 20 p3251 N84-30632
Summary of SAR (Synthetic Aperture Radar) ocean wave data archived at ERIM (Environmental Research Institute of Michigan)
[AD-A142620] 20 p3251 N84-30633
Teleconnections and sea surface temperature anomaly effects on the drought of 1983 in northeast Brazil
[INPE-3214-PRE/567] 21 p3446 N84-31867
Monitoring of long waves in the eastern Equatorial pacific 1981-1983 using satellite multi-channel sea surface temperature charts
[PB84-190487] 21 p3451 N84-31900
Determination of sea surface temperature with N-ROSS (Navy-Remote Ocean Sensing System)
[AD-A143563] 22 p3627 N84-32984
High-frequency acoustic backscatter from the sea surface
[AD-A143536] 22 p3652 N84-33152
The information content of spaceborne SAR ocean image spectra 23 p3771 N84-33905
A three-dimensional description of the sea surface by means of marine navigation radar 23 p3771 N84-33906
Measurements of microwave backscattering signatures of the ocean surface using X-band and Ka-band airborne scatterometer/radiometer system 23 p3771 N84-33907
Comparison of ocean wave energy measured by SEASAT synthetic aperture radar with SAR surface wave imaging theories 23 p3771 N84-33908
Removal of ambiguity of two-dimensional gray level variance spectra obtained by processing ship radar images of ocean waves 23 p3772 N84-33909
Evaluation of wind estimates over open ocean from the Nimbus 7 scanning multichannel microwave radiometer 23 p3773 N84-33921
Comparison of sea surface wind speed fields by SEASAT radar altimeter, scatterometer and scanning multichannel microwave radiometer with an emphasis on the Southern Ocean 23 p3774 N84-33922
SASS 1 model function evaluation and upgrade — Seasat A Satellite Scatterometer (SASS) 23 p3778 N84-33956
The influence of perturbing water properties in chlorophyll mapping 23 p3780 N84-33970
The modification of the modulation transfer function by sea slicks measured by L-band radar 23 p3780 N84-33971
Microwave radiometry for oil pollution monitoring, measurement and systems 23 p3781 N84-33975
Direct and inverse methods for ocean-wave imaging by SAR 23 p3783 N84-33985
Ocean Color Working Group report to ESA Observation Advisory Committee
[ESA-BR-20] 23 p3785 N84-34003
A first attempt to identify areas of high probability for the occurrence of surface skipjack schools (Katsuwonus pelamis), from an analysis of oceanographic data for the south-southeast region of Brazil
[INPE-2972-RPE/449] 23 p3803 N84-34112
Methodology for interpretation of SST retrievals using the AVHRR split window algorithm
[NASA-TM-85100] 24 p3934 N84-34905
Contouring program for generation of sea surface temperature maps
[INPE-3260-RPE/464] 24 p3935 N84-34906

OCEAN TEMPERATURE

The CTD data collected in the Rockall trough on RRS Shackleton Cruise 5c/78 during JASIN 1978 — salinity, temperature, depth (CTD); air sea interaction (JASIN)
[IOS-147] 02 p0258 N84-11691
Long SeaSoar CTD sections in the northeast Atlantic Ocean collected during RRS Discovery Cruise 116 — salinity, temperature, depth (CTD)
[IOS-148] 02 p0258 N84-11692
Contributions of remote sensing satellite tracking techniques to marine environment monitoring and marine applications 03 p0396 N84-12585
World-wide sea-surface temperatures
[AD-A131892] 03 p0411 N84-12869
Baroclinic Rossby wave signature in a general circulation ocean model
[AD-A132219] 04 p0669 N84-13750
A statistical approach for determining subsurface thermal structure from sea surface temperature in the northeast Pacific Ocean
[AD-A132204] 05 p0711 N84-14858
Long term upper ocean study (LOTUS) at 34 deg N, 70 deg W: Meteorological sensors, data and heat fluxes for May-October 1982 (LOTUS-3 and LOTUS-4)
[AD-A133883] 05 p0711 N84-14859
Ocean temperature changes induced by tropical cyclones 06 p0879 N84-15722
A determination of the constants for a second-order closure turbulence model from geophysical data
[AD-A134826] 08 p1195 N84-17795
Swirls and plumes or application of statistical methods to satellite-derived sea surface temperatures
[AD-A135462] 10 p1528 N84-20010
Using the NOAA-7 AVHRR data to monitor El Chichon aerosol evolution and subsequent sea surface temperatures anomalies 10 p1530 N84-20083
Analysis of observed and modeled mixed layers: Nocal (northern California) region
[AD-A136773] 10 p1543 N84-20109
Determination of sea surface temperatures from high resolution infrared satellite measurements
[REPT-115] 12 p1837 N84-21975
Airborne lidar for oceanography and hydrology (FLOH)
[ESA-TT-799] 13 p1996 N84-22955
Comparisons of sea-surface temperature obtained from ship and satellite data
[AD-A138257] 13 p2018 N84-23087
Seasonal oscillations of the subtropical convergence between the Brazil and Malvinas currents, using oceanographic and SMS-2 satellite data
[INPE-3092-PRE/407] 16 p2532 N84-26255
Modeling seasonal evolution of thermal regime of ocean-atmosphere system 17 p2697 N84-27181
Asymptotic form of solution of problem of seasonal evolution of thermal regime in ocean 17 p2699 N84-27194
Variations in surface current off the coasts of Canada as inferred from infrared satellite imagery 17 p2719 N84-27305
Analyzing temperature data from XBT grid surveys
[AD-A140885] 17 p2737 N84-27388
Variability of vertical distributions of sea water temperature and light extinction index in section across Mascarene Ridge 18 p2857 N84-28142
Prognostic relationships for surface temperature anomalies in northern part of Pacific Ocean 18 p2858 N84-28148
Satellite-Derived Sea Surface Temperature: Workshop-2
[NASA-CR-173740] 18 p2892 N84-28355
The rapid sampling vertical profiler MILDEX, October-November 1983
[AD-A140985] 18 p2892 N84-28358
Oceanic transport 20 p3218 N84-30444
A synoptic case study analysis of the ocean temperature anomalies in the central Pacific region, 1976 - 1979
[AD-A142548] 20 p3251 N84-30631
Interannual variability in sea-surface temperature at one location along the central California coast
[AD-A142553] 20 p3251 N84-30632
Teleconnections and sea surface temperature anomaly effects on the drought of 1983 in northeast Brazil
[INPE-3214-PRE/567] 21 p3446 N84-31867
Determination of sea surface temperature with N-ROSS (Navy-Remote Ocean Sensing System)
[AD-A143563] 22 p3627 N84-32984

OCEAN THERMAL ENERGY CONVERSION

Analysis and summary of OTEC (Ocean Thermal Energy Conversion) cold water pipe costs
[PB83-221002] 01 p0060 N84-10382
Ocean thermal energy conversion cold water pipe at-sea test program
[PB83-221119] 01 p0060 N84-10383
OTEC (Ocean Thermal Energy Conversion) cold water pipe at-sea test program. Volume 2.F.: Environmental design criteria
[PB83-221127] 01 p0060 N84-10384
Environmental design criteria for the 1/3 scale OTEC cold water pipe at-sea test site off Honolulu, Hawaii
[PB83-221143] 01 p0060 N84-10385

The OTEC (Ocean Thermal Energy Conversion) mooring technology
[PB83-221166] 01 p0060 N84-10396
Potential inspection, maintenance and repair techniques for the OTEC (Ocean Thermal Energy Conversion) systems
[PB83-221374] 01 p0060 N84-10397
Study of the practicalities of concrete for OTEC (Ocean Thermal Energy Conversion) and other marine applications
[PB83-221887] 01 p0060 N84-10398
Fatigue testing of OTEC cold water pipe glass-reinforced plastic materials
[PB84-128958] 09 p1335 N84-18715
Design of the near shore seawater systems for an OTEC expanded test facility
[DE84-004043] 11 p1674 N84-20926
Application of marine acoustic systems
[PB84-141361] 11 p1692 N84-21037
Ocean energy systems
[DE84-005200] 15 p2364 N84-25182
Ocean Energy Technology Program
[DE84-012052] 20 p3236 N84-30542
Shelf mounted ocean thermal energy conversion platform, revised preliminary report
[PB84-185230] 20 p3237 N84-30551
Geotechnical and geologic design considerations for a shelf mounted OTEC (Ocean Thermal Energy Conversion) facility
[PB84-186147] 20 p3238 N84-30554

OCEANOGRAPHIC PARAMETERS
NT OCEAN TEMPERATURE
CTD transect of the Kuroshio Extension 27-42 deg N, 152 deg E
[AD-A131329] 01 p0111 N84-10721
Hydroacoustics research in Seattle, Washington, 1967 - 1981. An annotated bibliography
[PB83-220483] 01 p0111 N84-10722
Remote Sensing Applications for Environmental Studies — conferences
[ESA-SP-186] 03 p0395 N84-12579
Contributions of remote sensing satellite tracking techniques to marine environment monitoring and marine applications 03 p0396 N84-12585
Australian Oceanographic Data Centre bulletin 16
[AD-A132002] 03 p0413 N84-12701
Long term upper ocean study (LOTUS) at 34 deg N, 70 deg W: Meteorological sensors, data and heat fluxes for May-October 1982 (LOTUS-3 and LOTUS-4)
[AD-A133883] 05 p0711 N84-14659
A comprehensive description of the mission sensor microwave imager (SSM/I) environmental parameter extraction algorithm
[AD-A134052] 05 p0759 N84-14976
Spaceborne radar research in the 1980's 07 p0990 N84-16417
European Space Agency, ERS-1 program 07 p0990 N84-16419
MIZEX: A program for mesoscale air-ice-ocean interaction experiments in Arctic marginal ice zones. 2: A science plan for a summer marginal ice zone experiment in the Fram Strait/Greenland sea: 1984
[AD-A134872] 08 p1187 N84-17737
Flight measurement and analysis of AAFE RADSCAT wind speed signature of the ocean
[NASA-TM-85646] 08 p1194 N84-17784
A determination of the constants for a second-order closure turbulence model from geophysical data
[AD-A134826] 08 p1195 N84-17795
A compilation of moored current meter data from the western North Pacific. Volume 31, 1980 - 1982
[AD-A134234] 08 p1196 N84-17796
Physical oceanography report STD data from drifting ice station Fram 1
[AD-A134244] 08 p1196 N84-17797
Gulf stream system landward surface edge statistics
[PB84-104314] 10 p1543 N84-20112
Integrated Global Ocean Services System (IGOSS): Guide to the IGOSS data processing and services system
[WMO-623] 13 p2019 N84-23089
Bibliography of the research staff of the UK Institute of Oceanographic Sciences, Bidston Observatory (1979-83)
[AD-A136597] 14 p2183 N84-24080
Maps of favorable areas for tuna fishing to the South and Southeast of Brazil prepared from SMS-2 satellite data
[INPE-3102-PRE/501] 16 p2532 N84-26256
The rapid sampling vertical profiler MILDEX, October-November 1983
[AD-A140985] 18 p2892 N84-28356
WAZP observations during MILDEX October-November 1983
[AD-A141048] 18 p2893 N84-28358
Hydrographic data from the OPTOMA (Ocean Prediction Through Observations, Modeling and Analysis) program OPTOMA2, legs I and II, 31 July - 14 August, 1982
[AD-A141547] 19 p3061 N84-29424
Hydrographic data from the OPTOMA (Ocean Prediction Through Observations, Modeling and Analysis) program: OPTOMA1, 8 to 13 March 1982
[AD-A141666] 19 p3061 N84-29425
GEOSAT Ocean Applications Program (GOAP) initial data processing and analysis system test and evaluation plan
[AD-A141673] 19 p3062 N84-29426
Practical applications of a space station
[NASA-CR-173672] 21 p3353 N84-31270

OCEANOGRAPHY
Hydroacoustics research in Seattle, Washington, 1967 - 1981. An annotated bibliography
[PB83-220483] 01 p0111 N84-10722
Long-term trends in dynamic height and sea surface temperature
[DE83-014868] 02 p0258 N84-11687
Australian Oceanographic Data Centre bulletin 16
[AD-A132002] 03 p0413 N84-12701
Economic benefits of operational environmental satellites
[PB83-252932] 04 p0569 N84-13748
A position paper: Mesoscale oceanography from GEOSAT
[AD-A132292] 04 p0569 N84-13749
Winter currents on the eastern Bering Sea shelf
[PB83-248823] 04 p0570 N84-13753
An interdisciplinary oceanographic database
[CSIR-T/SEA-8207] 04 p0616 N84-14064
European Scientific Notes, volume 37, number 7
[AD-A132676] 05 p0759 N84-14979
A summary of the Naval Postgraduate School Research Program
[AD-A132871] 05 p0766 N84-15024
Multifrequency scattering for target characterization and identification: A summary of recent results 06 p0870 N84-15663
The nature of microwave backscattering from water waves 06 p0870 N84-15665
Alternative experiments using the geophysical fluid flow cell
[NASA-CR-3766] 06 p0877 N84-15706
The long term upper ocean study (LOTUS). Cruise summary and hydrographic data report, ENDEAVOR 97, April 1983
[AD-A134005] 06 p0883 N84-15745
Sea height information from complex SAR data
[NASA-CR-173199] 07 p1060 N84-16872
Investigation of ice dynamics in the marginal ice zone — Arctic Ocean
[AD-A134599] 08 p1196 N84-17799
NODC (National Oceanographic Data Center) inventory of XBT data along transects in U.S. Atlantic and Gulf coastal waters from NMFS/MARD ship of opportunity program for 1981
[PB84-122662] 08 p1197 N84-17802
Nalepo describes Intercosmos-Black Sea experiment 09 p1265 N84-18257
Earth science investigations in the United States Antarctic Research Program (USARP)
[PB84-119460] 09 p1336 N84-18722
Analysis of SEASAT wind observations in the Gulf of Mexico and the Caribbean Sea
[PB84-131309] 09 p1350 N84-18824
El Nino and the southern oscillation: A scientific plan
[PB84-129733] 09 p1351 N84-18825
European Scientific Notes, volume 37, no. 12
[AD-A135883] 09 p1404 N84-19173
Comparisons of Naval Air Station, NOWRA oceanographic analyses with independently obtained ship and satellite data
[AD-A136462] 10 p1526 N84-19994
European Scientific Notes, volume 38, number 1
[AD-A136868] 10 p1598 N84-20472
USSR report: Earth sciences
[JPRS-UES-84-003] 11 p1669 N84-20691
Vertical sections of oxygen, phosphate, silicate, nitrate and nitrite from the NORPAX Shuttle Experiment
[PB84-138759] 11 p1692 N84-21036
Processing system 12 p1835 N84-21958
Research Review, 1983
[NASA-TM-86053] 12 p1850 N84-22049
European Scientific Notes, volume 38, no. 3
[AD-A136163] 12 p1918 N84-22498
Scientific activity in oceanography, 1979-1982 13 p2018 N84-23084
Topex: Observing the oceans from Space
[NASA-CR-173490] 13 p2018 N84-23085
NASA Oceanic Processes Program, fiscal year 1983
[NASA-TM-86248] 14 p2183 N84-24078
Sea level variations and ocean dynamics in the Aleutian Islands
[AD-A139421] 14 p2183 N84-24079
Instrumentation requirements for small scale towed temperature measurements
[AD-A139897] 15 p2336 N84-25026
ONR-Sponsored meeting to discuss South Atlantic and Indian Ocean physical oceanographic research
[AD-A140030] 15 p2374 N84-25242
Geophysical Fluid Dynamics Laboratory activities, FY83, plans FY84
[PB84-148790] 15 p2374 N84-25245
PAME Proceedings, Pattern Analysis in the Marine Environment, An Ocean Science and Technology Workshop
[AD-A140195] 16 p2532 N84-26257
Study of NOAA (National Oceanic and Atmospheric Administration) WP-3D terminal navigation errors based on navigators logbooks: 1977-1983
[PB84-155738] 17 p2605 N84-26692
USSR report: Earth sciences
[JPRS-UES-84-004] 17 p2696 N84-27177
Remote sensing for oceanography: Past, present, future 17 p2711 N84-27263
High resolution observations of low contrast phenomena from an Advanced Geosynchronous Platform (AGP) 17 p2712 N84-27266
A tentative unified sea model for scattering and emission 17 p2715 N84-27285
Altimeter height measurement errors introduced by the presence of variable cloud and rain attenuation 17 p2716 N84-27289
Progress report abstracts, Oceanic Biology Program
[AD-A140840] 17 p2737 N84-27390
Canyon and slope processes study. Volume 3: Biological processes
[PB84-169507] 17 p2738 N84-27393
USSR report: Earth sciences
[JPRS-UES-84-005] 18 p2855 N84-28132
Publications and reports of the Institute of Oceanographic Sciences 1979-1982
[IOS-170] 18 p2892 N84-28354
Bottom-mounted profiling winch
[AD-A141808] 19 p3032 N84-29230
European scientific notes. Volume 38, number 6
[AD-A142175] 19 p3116 N84-29801
Earth Observing System. Volume 1, part 2: Science and mission requirements. Working group report appendix
[NASA-TM-86129-VOL-1-PT-2] 20 p3217 N84-30433
Biological oceanography 20 p3217 N84-30437
Oceanic transport 20 p3218 N84-30444
Sea ice 20 p3218 N84-30446
USSR report: Earth sciences
[JPRS-UES-84-006] 20 p3223 N84-30479
Results of ocean-atmosphere interaction studies in West Atlantic 20 p3223 N84-30481
Spatial distribution of advective heat influxes in atmosphere over Northern Hemisphere and its relationship to heat influxes from ocean 20 p3223 N84-30482
A description of the MIZEX 1984 remote sensing activities
[AD-A142296] 20 p3228 N84-30514
Continental shelf processes affecting the oceanography of the South Atlantic Bight
[DE84-010113] 20 p3251 N84-30635
Environmental geologic studies on the United States mid- and north Atlantic outer continental shelf area, 1980-1982. Volume 1: Executive summary
[PB84-187939] 20 p3252 N84-30639
Environmental geologic studies on the United States mid-and north Atlantic outer continental shelf area, 1980-1982. Volume 3: North Atlantic region
[PB84-187954] 20 p3252 N84-30641
Undersea acoustic research
[AD-A142339] 20 p3291 N84-30891
A pioneer deep ocean mining venture
[PB84-199645] 21 p3433 N84-31780
Marine Seismic System (MSS) deployment. Phase 5: An investigation of techniques and deployment scenarios for installation of triaxial seismometer in a borehole in the deep ocean
[AD-A142873] 21 p3444 N84-31850
Deep-Towed Array Geophysical System (DTAGS): A hardware description
[AD-A142970] 21 p3444 N84-31851
Environmental Research Laboratories publication abstracts, FY 1983
[PB84-189323] 21 p3450 N84-31892
South Atlantic physical oceanography study (year 5). Volume 1: Executive summary
[PB84-187855] 21 p3451 N84-31899
An ocean climate research strategy
[PB84-194828] 21 p3452 N84-31902

European scientific notes, volume 38, no. 5
[AD-A141713] 21 p3518 N84-32285
Key to oceanographic records documentation
[PB84-186360] 21 p3519 N84-32299
Aspects of the Brazil current system according to SMS-2, NOAA-6, and Tiros-N satellites for 1979 to 1980
[INPE-2975-RPE/450] 22 p3627 N84-32982
Thermistor chain observations during MILDEX (mixed layer dynamics experiment)
[AD-A143933] 23 p3803 N84-34114
Contouring program for generation of sea surface temperature maps
[INPE-3260-RPE/464] 24 p3935 N84-34906
Arctic physical oceanography
[AD-A144596] 24 p3935 N84-34909
Pilot climate data system: User's guide for charts subsystem
[NASA-TM-86151] 24 p3945 N84-34975
A note on the eigenvalues of a layered system
[INPE-3263-PRE/594] 24 p3950 N84-35007
Scientific research abstracts in Republic of China, 1983 24 p3955 N84-35038
A general scientific information system to support the study of climate-related data
[NASA-TM-86152] 24 p3968 N84-35128

OCEANS
NT ARCTIC OCEAN
NT ATLANTIC OCEAN
NT INDIAN OCEAN
NT PACIFIC OCEAN
Low-level radioactive waste disposal in the oceans
[DE83-013367] 01 p0145 N84-10958
Long-term trends in dynamic height and sea surface temperature
[DE83-014868] 02 p0258 N84-11687
Role of the oceans in the carbon cycle
[DE83-015530] 02 p0258 N84-11688
Adjustment in the oceans: The long-period tides and coastal upwelling 03 p0413 N84-12702
Transverse horizontal coherence and low-frequency array gain limits in the deep ocean
[AD-A131916] 03 p0430 N84-12821
Stream-water storage in the ocean using an impermeable membrane
[PB83-248369] 04 p0517 N84-13394
A variational method for estimating the general circulation in the ocean 04 p0550 N84-13626
Ocean temperature changes induced by tropical cyclones 06 p0879 N84-15722
The numerical synthesis and inversion of acoustic fields using the Hankel transform with application to the estimation of the plane wave reflection coefficient of the ocean bottom
[AD-A133156] 06 p0908 N84-15901
Enhancement of SEASAT wind-stress measurements using data from GOES
[PB84-111244] 08 p1192 N84-17773
FGGE level 3-B daily global analyses. Part 2: (Mar. 1979 - May 1979)
[PB84-100270] 08 p1193 N84-17780
Linear time-variant space-variant filters and the WKB approximation
[AD-A134886] 08 p1228 N84-18021
Interpretation of a SAR (Synthetic Aperture Radar) image of the Bay of Biscay
[AD-A135981] 09 p1303 N84-18517
Measurement of ocean surface winds by SEASAT synthetic aperture radar
[AD-A138392] 12 p1836 N84-21971
Multivariate optimum interpolation of surface pressure and winds over oceans 12 p1853 N84-22069
Optimization of satellite orbital parameters for oceanic surveillance
[AD-P002158] 14 p2139 N84-23824
AVHRR aerosol ground truth experiment
[PB84-157882] 14 p2181 N84-24065
Bibliography of the research staff of the UK Institute of Oceanographic Sciences, Bidston Observatory (1979-83)
[AD-A138597] 14 p2183 N84-24080
Report to the Congress on ocean pollution
[PB84-166768] 15 p2374 N84-25246
Anisotropic models of the upper mantle
[NASA-CR-173549] 16 p2521 N84-26182
Nimbus 7 SMMR derived seasonal variations in the water vapor, liquid water and surface winds over the global oceans
[NASA-TM-86080] 16 p2528 N84-26233
PAME Proceedings, Pattern Analysis in the Marine Environment, An Ocean Science and Technology Workshop
[AD-A140195] 16 p2532 N84-26257
Seasonal variability of surface currents in world ocean 17 p2698 N84-27188
Frontiers of Remote Sensing of the Oceans and Troposphere from Air and Space Platforms
[NASA-CP-2303] 17 p2711 N84-27262
ESA activities in the use of microwaves for the remote sensing of the Earth 17 p2712 N84-27264
Scatterometer capabilities in remotely sensing geophysical parameters over the ocean: The status and the possibilities 17 p2712 N84-27268
New algorithms for microwave measurements of ocean winds 17 p2713 N84-27272
Some case studies of ocean wave physical processes utilizing the GSFC airborne radar ocean wave spectrometer 17 p2715 N84-27283
Improved resolution rain measurements from spaceborne radar altimeters 17 p2716 N84-27290
The importance of altimeter and scatterometer data for ocean prediction 17 p2720 N84-27316
Two types of continental breakup 18 p2863 N84-28178
First- and second-phase gravity field solutions based on satellite altimetry
[AD-A142256] 19 p3054 N84-29381
Sea ice 20 p3218 N84-30446
SEASAT observations of lithospheric flexure 20 p3221 N84-30463
Ocean circulation studies 20 p3222 N84-30469
Global mean sea surface based upon SEASAT altimeter data 20 p3222 N84-30470
Spatial distribution of advective heat influxes in atmosphere over Northern Hemisphere and its relationship to heat influxes from ocean 20 p3223 N84-30482
Ocean Energy Technology Program
[DE84-012052] 20 p3236 N84-30542
A pioneer deep ocean mining venture
[PB84-199645] 21 p3433 N84-31780
Deep-Towed Array Geophysical System (DTAGS): A hardware description
[AD-A142970] 21 p3444 N84-31851
Large-scale atmosphere-ocean coupling
[AD-A143162] 21 p3447 N84-31873
The feasibility, practicality and utility of P-3 inflight refueling
[AD-A143419] 22 p3535 N84-32382
Properties of the deep scattering layer analyzed in terms of bioluminescent behavior of its components
[AD-A143849] 23 p3803 N84-34113

OCTAHEDRAL RESEARCH SATELLITES
U ENVIRONMENTAL RESEARCH SATELLITES

OCTAHEDRONS
Computational experience with the octahedral algorithm and related results
[DE83-015834] 02 p0283 N84-11854

OCTANE NUMBER
The determination of research octane number of gasoline fuels by octane analyzer
[AD-A132427] 04 p0509 N84-13335
1981 CRC octane number requirement survey
[AD-A133369] 06 p0612 N84-15268
Report of the 68th National Conference on Weights and Measures 1983
[PB84-110998] 08 p1141 N84-17425

OCULOMETERS
Oculometric indices of simulator and aircraft motion
[NASA-CR-3801] 16 p2537 N84-26291
Accommodative amplitude and speed measuring instrument
[AD-D011032] 19 p3071 N84-29484
Gaze control during horizontal and vertical target tracking
[AD-A144484] 24 p3938 N84-34926

OCULOMOTOR NERVES
A re-evaluations of cancellation theory: Visual, vestibular and oculomotor contributions to perceived object motion
[AD-B082936] 19 p3067 N84-29455

ODAS
U OCEAN DATA ACQUISITIONS SYSTEMS

ODD-EVEN NUCLEI
Supersymmetry in physics: An algebraic overview
[DE84-007269] 15 p2399 N84-25395

ODORS
Biochemical studies on the initiation of odor sensing
[AD-A129926] 14 p2184 N84-24085
Investigation of mechanisms underlying odor recognition
[AD-A140969] 18 p2914 N84-28482

OFF-ON CONTROL
A high-order test for optimality of bang-bang controls
[AD-A136375] 09 p1371 N84-18954
Variable structure control of interconnected systems with applications to power systems
[DE84-006587] 12 p1892 N84-22321

OFFGASSING
The Spacelab flight unit offgassing test
[ESA-STM-232] 23 p3701 N84-33460

OFFICE OF SPACE & TERRESTR APPLIC PAYLOADS
U OSTA-1 PAYLOAD

OFFSHORE ENERGY SOURCES
Symposium Proceedings: A National program for the assessment and development of the mineral resources of the United States Exclusive Economic Zone
[US-CIRC-929] 18 p2866 N84-28192
Panel 1A: Geologic studies related to oil and gas development in the EEZ 18 p2866 N84-28194
Panel 2A: Offshore oil and gas technology assessment 18 p2866 N84-28196
Fossil fuels 19 p3037 N84-29267

OFFSHORE PLATFORMS
Turbulent wind effects on tension leg platform surge
[PB83-207464] 01 p0058 N84-10376
Ocean thermal energy conversion cold water pipe at-sea test program
[PB83-221119] 01 p0060 N84-10383
OTEC (Ocean Thermal Energy Conversion) cold water pipe at-sea test program. Volume 2.F.: Environmental design criteria
[PB83-221127] 01 p0060 N84-10394
Environmental design criteria for the 1/3 scale OTEC cold water pipe at-sea test site off Honolulu, Hawaii
[PB83-221143] 01 p0060 N84-10395
The OTEC (Ocean Thermal Energy Conversion) mooring technology
[PB83-221168] 01 p0060 N84-10396
Potential inspection, maintenance and repair techniques for the OTEC (Ocean Thermal Energy Conversion) systems
[PB83-221374] 01 p0060 N84-10397
Satellite remote sensing, environmental monitoring and the offshore oil and gas industries 03 p0398 N84-12603
An assessment of some methods for calculating wave loading
[NMI-R-162] 05 p0694 N84-14555
Wind tunnel tests on a model of a semisubmersible platform and comparison of the results with full-scale data
[NLR-MP-82014-U] 06 p0780 N84-15113
Development of low temperature cure epoxy paint for offshore steel structures in cold areas
[NRC/CNR-TT-2078] 11 p1636 N84-20694
Satellite data relay and platform locating in oceanography. Report of the In Situ Ocean Science Working Group
[NASA-TM-85443] 12 p1860 N84-22116
Development of an instrumented riser joint — for offshore platforms stress measurement 17 p2629 N84-26818
Photoelastic investigation of the stress concentration factor in welded joints — offshore structures
[ND-R-816(R)] 18 p2852 N84-28106
The effect of section thickness on the fatigue performance of simple welded joints — offshore structures
[ND-R-941(S)] 18 p2852 N84-28107
Wave uplift pressure on horizontal platforms
[PB84-190628] 20 p3188 N84-30257
Shelf mounted ocean thermal energy conversion platform, revised preliminary report
[PB84-185230] 20 p3237 N84-30551
Wave force investigations at the second Christchurch Bay Tower
[NMI-R177] 20 p3250 N84-30626
Nonlinear analysis of a bolted marine riser connector using NASTRAN substructuring 22 p3610 N84-32875

OFT
U SPACE TRANSPORTATION SYSTEM FLIGHTS

OFT 1
U SPACE TRANSPORTATION SYSTEM 1 FLIGHT

OFT 2
U SPACE TRANSPORTATION SYSTEM 2 FLIGHT

OFT 3
U SPACE TRANSPORTATION SYSTEM 3 FLIGHT

OFT 4
U SPACE TRANSPORTATION SYSTEM 4 FLIGHT

OGEE WINGS
U VARIABLE SWEEP WINGS

OGIVES
Experimental studies of boundary layer transition on a spinning and non-spinning axisymmetric body 01 p0002 N84-10014
Tailored testing theory and practice: A basic model, normal ogive submodels, and tailored testing algorithms
[AD-A133385] 06 p0897 N84-15824
Numerical investigation of the aerodynamics and stability of a flared afterbody for axisymmetric projectiles at supersonic speeds
[AD-A136826] 10 p1420 N84-19289

OHIO
Proceedings of the 18th Annual Conference on Manual Control
[AD-A131256] 01 p0116 N84-10763

OHMIC DISSIPATION
Numerical modeling of ionospheric parameters from global IMS (International Magnetospheric Study) magnetometer data for the CDAW-6 intervals
[PB84-151307] 14 p2177 N84-24041
Acceleration of runaway electrons and Joule heating in solar flares
[NASA-TM-86112] 15 p2428 N84-25583
Tape heating method for space simulation testing
24 p3864 N84-34488

OIL ADDITIVES
X-ray fluorescence analysis for barium, zinc, calcium and phosphorus in oil additives
[MRL-TN-475] 05 p0646 N84-14249
Dihalo-monophospha-s-triazines and their derivatives
[AD-D011175] 23 p3714 N84-33545
Halo-substituted diphospha-s-triazines and their derivatives
[AD-D011176] 23 p3714 N84-33546
Tricresyl phosphate retention by bearing retainer and reservoir materials
[AD-A143642] 23 p3724 N84-33598

OIL EXPLORATION
Evaluation of a laser-based photoacoustic spectrometer in measurement of stable-isotope ratios
[DE83-014628] 01 p0068 N84-10574
Study of LANDSAT-D thematic mapper performance as applied to hydrocarbon exploration
[E84-10003] 02 p0235 N84-11544
Contribution of LANDSAT-4 thematic mapper data to geologic exploration
[E84-10021] 02 p0237 N84-11557
On the genesis of hydrocarbons in the German Alpine foreland
[BMFT-FB-T-83-103] 02 p0250 N84-11637
Speculations on the petroleum resources of Antarctica
14 p2160 N84-23936
The Arctic platform in the national petroleum reserve in Alaska: Deposition, deformation and petroleum potential
14 p2164 N84-23959
Oil and gas resources of the North Slope, Alaska
14 p2164 N84-23960
Petroleum source rock richness, type and maturity for four rock units on the Alaskan North Slope: Are they sources for the two oil types?
14 p2164 N84-23961
Geochemical detection of prospective petroleum areas in Arctic regions
14 p2166 N84-23972
Georges Bank monitoring program: Analysis of trace metals in bottom sediments during the second year of monitoring
[PB84-169465] 16 p2534 N84-26269
Petroleum and minerals resource assessment
19 p3038 N84-29273
Evaluation of LANDSAT-D Thematic Mapper performance as applied to hydrocarbon exploration
[E84-10154] 19 p3038 N84-29275

OIL FIELDS
Diagnostic tools for mapping California EOR processes
[DE84-006232] 15 p2359 N84-25157

OIL POLLUTION
The Istituto di Ricerca sulle Onde Elettromagnetiche (IROE)-lidar remote sensing of the environment
03 p0396 N84-12590
Satellite remote sensing, environmental monitoring and the offshore oil and gas industries
03 p0398 N84-12603
Remote sensing applied to marine pollution control
03 p0399 N84-12607
Introductory studies of natural contamination and manmade pollution in Danish waters
03 p0399 N84-12608
Passive radiometry and other remote sensing data interpretation for oil slick thickness assessment, in an experimental case
03 p0399 N84-12609
Remote sensing analysis of oil pollution in Augusta Bay, Sicily
03 p0400 N84-12616
A satellite study of ocean internal waves
[PB83-248708] 04 p0556 N84-13661
The remote sensing of oil pollution at sea: An attempt at synthesis
06 p1176 N84-17662
Project Noordwijk. Part 4: The radar backscatter of oil spills as measured at platform Noordwijk
[PHL-1983-47] 17 p2725 N84-27344
Detection and monitoring of the 1983 Nowruz oil spill using AVHRR data
23 p3760 N84-33972
Oil spill detection with DFVLR X-band SLAR
23 p3761 N84-33973
An active remote sensing system to map location of underwater oil seeps
23 p3761 N84-33974
Microwave radiometry for oil pollution monitoring, measurement and systems
23 p3761 N84-33975

OIL RECOVERY
Examination of frontal development during a dry forward combustion
[DE84-006304] 15 p2268 N84-24726
Solar-heated oil shale retort
[NASA-CASE-NPO-16392-1] 22 p3616 N84-32912

OIL SLICKS
Marine remote sensing activities of the Joint Research Center, Ispra, Italy
03 p0396 N84-12586
A satellite study of ocean internal waves
[PB83-248708] 04 p0556 N84-13661
Movement of satellite-tracked buoys in the Beaufort sea (1979-1981)
[AD-A133159] 07 p1041 N84-16748
Design of a remotely controlled hovercraft vehicle for spill reconnaissance
[PB84-124064] 08 p1105 N84-17187
The remote sensing of oil pollution at sea: An attempt at synthesis
06 p1176 N84-17662
The modification of the modulation transfer function by sea slicks measured by L-band radar
23 p3780 N84-33971
Detection and monitoring of the 1983 Nowruz oil spill using AVHRR data
23 p3760 N84-33972
Microwave radiometry for oil pollution monitoring, measurement and systems
23 p3781 N84-33975

OILS
NT CRUDE OIL
NT FUEL OILS
NT LUBRICATING OILS
NT MINERAL OILS
NT SHALE OIL
Oil/salt hydrate direct-contact heat-exchange experiments
[DE83-009396] 01 p0062 N84-10533
Effect of low-proof fuel alcohol on crankcase oil dilution in an Otto-cycle engine
[DE83-016425] 01 p0091 N84-10594
Discussion of static pressure liquid-floated gyros
[AD-A131874] 03 p0377 N84-12451
Alaska's mineral resources
[DE83-016599] 03 p0401 N84-12623
The use of oil for in-flight flow visualization
[NASA-TM-84915] 05 p0627 N84-14122
Capacitor hardness demonstration program
[AD-A133045] 05 p0676 N84-14442
Experimental study of bubble cavities attached to a rotating shaft in a reservoir
[NASA-TM-83586] 08 p1157 N84-17533
Vegetable Oil as Diesel Fuel: Seminar 3
[PB84-151323] 14 p2133 N84-23782
The oil impregnation of phenolic-resin-based materials used in the fabrication of ball-bearing cages
[ESA-PSS-01-712-ISSUE-1] 16 p2472 N84-25846
Some considerations on silicone oil in high-current and energy-disconnecting mechanisms
[DE84-011021] 20 p3180 N84-30203
Thermal analysis of a planetary transmission with spherical roller bearings operating after complete loss of oil
[NASA-TP-2367] 22 p3603 N84-32824
Production of extra-pure iron for cermet bearings
23 p3707 N84-33501

OKLAHOMA
Study of LANDSAT-D thematic mapper performance as applied to hydrocarbon exploration
[E84-10003] 02 p0235 N84-11544
Contribution of LANDSAT-4 thematic mapper data to geologic exploration
[E84-10021] 02 p0237 N84-11557
Evaluation of LANDSAT-D Thematic Mapper performance as applied to hydrocarbon exploration
[E84-10154] 19 p3038 N84-29275
Measurements inside Oklahoma thunderstorms
[PB84-206911] 21 p3450 N84-31891

OLEFINS
U ALKENES

OLFACTORY PERCEPTION
Biochemical studies on the initiation of odor sensing
[AD-A129926] 14 p2184 N84-24085
Investigation of mechanisms underlying odor recognition
[AD-A140969] 18 p2914 N84-28482

OLIVINE
Use of olivine and plagioclase saturation surfaces for the petrogenetic modeling of recrystallized basic plutonic systems
11 p1679 N84-20956
A case for olivine on Mars
13 p2087 N84-23520
Mechanisms of electrical conductivity in olivine
[DE83-017313] 22 p3588 N84-32723

OME
U ORBIT MANEUVERING ENGINE (SPACE SHUTTLE)

OMEGA NAVIGATION SYSTEM
Omega Data Bank
[AD-A131089] 01 p0008 N84-10046
OMEGA global radionavigation: A guide for users
[PB84-134345] 10 p1427 N84-19331
Specification of the transmitted signal of the OMEGA navigation system
[AD-A137673] 11 p1605 N84-20509
CONUS (Continental United States) Omega/VLF data collection: Flight test
[AD-A140252] 16 p2448 N84-25688
A seaborne navigation trial utilising a Differential Omega system
[ERL-0295-TM] 17 p2604 N84-26684

OMNIDIRECTIONAL ANTENNAS
NT MONOPOLE ANTENNAS
Doppler-based target localization by a distributed system of omnidirectional sensors
[REPT-3-95] 23 p3729 N84-33636
Criteria for nearly omnidirectional radiation patterns for printed antennas
[AD-A143662] 23 p3731 N84-33646

OMNIRANGE NAVIGATION
U VHF OMNIRANGE NAVIGATION

ON-LINE PROGRAMMING
PROUST: Knowledge-based program understanding
[AD-A133447] 06 p0897 N84-15825
Specification and implementation of atomic data types
[AD-A141823] 19 p3078 N84-29529
An on-line equivalent system identification scheme for adaptive control
21 p3343 N84-31213
User friendly authoring languages: An alternative approach
[AD-P003461] 21 p3510 N84-32236
NLM (National Library of Medicine) Online Services Reference Manual: Supplement
[PB84-186806] 21 p3520 N84-32300

ON-LINE SYSTEMS
Hydrogen-evolution monitoring as a measure of steam-generator corrosion
[DE83-900677] 01 p0044 N84-10285
On-line monitoring guide for technical personnel
[AD-A131044] 01 p0159 N84-11047
Compilation of cooperative data element dictionary of five federal agencies' systems for processing of technical report literature
[AD-A130797] 01 p0161 N84-11059
TIS (Technology Information System): A focal point for technology transfer
[AD-A130798] 01 p0161 N84-11060
The use and value of Defense Technical Information Center products and services
[AD-A130805] 01 p0161 N84-11061
Downloading and post-processing of bibliographic information with the TIS (Technology Information System) intelligent gateway computer
[AD-A130800] 01 p0162 N84-11062
On-line traffic monitor
[AD-A131356] 02 p0209 N84-11364
Procedures for the transfer of data files between the BRL CYBER computer system and the IBD Hewlett-Packard minicomputer network
[AD-A132063] 03 p0418 N84-12731
TIS: An intelligent gateway computer for information and modeling networks. Overview
[DE83-017986] 04 p0616 N84-14067
Techniques for sensor-based diagnosis
[AD-A133297] 06 p0896 N84-15814
The creation of the NLR benchmark package and the performance of two new CDC comuters with it
[NLR-MP-82015-U] 06 p0896 N84-15819
Interrange scheduling and Universal Documentation System (UDS) document development and transmission
[AD-A134398] 07 p0961 N84-16230
Handling and processing of hydrographic data
[REPT-111] 07 p1041 N84-16751
General review of numerical data bases
07 p1087 N84-17067
An on-line equivalent system identification scheme for adaptive control
[NASA-TM-85737] 08 p1105 N84-17185
Approach to real-time holography
[DE84-002779] 08 p1162 N84-17565
Primer for the Transportable Applications Executive
[NASA-TM-86062] 09 p1367 N84-18921
Meteorological database
[INPE-2790-PRE/353] 09 p1399 N84-19135
The automated information retrieval system in the field of science and science Policy--AWION
[AD-A135565] 09 p1404 N84-19174
Medical subject headings, tree annotations, 1984. Technical notes, Medlars indexing instructions
[PB84-120047] 09 p1405 N84-19181
Background research in support of the new grant proposal: Research consortium for X-ray topography on line X-19 at NSLS
[DE84-004212] 10 p1589 N84-20414
NASA Administrative Data Base Management Systems, 1983
[NASA-CP-2304] 11 p1747 N84-21403

Automated RTOP management system
11 p1748 N84-21406
Intercenter Problem Reporting and Corrective Action System (PRACAS) 11 p1748 N84-21408
Automated administrative data bases
11 p1749 N84-21411
Method for accessing distributed heterogeneous databases 11 p1749 N84-21412
NASA Scientific and Technical Information System (STI) and new directory of numerical data bases
11 p1749 N84-21413
NASA-wide standard administrative systems
11 p1749 N84-21415
On-line preprocessing of gray scale images
[BMFT-FB-DV-83-004] 12 p1909 N84-22435
Display units for online passage retrieval: A comparative analysis
[DE84-001004] 15 p2395 N84-25369
SIRIUS: Bibliographic search and retrieval system
[INPE-2771-PRE/344] 15 p2417 N84-25512
The MOSIS (MOS implementation) system (What it is and how to use it)
[AD-A139744] 15 p2418 N84-25517
On-line monitoring of the true corrosion rate in power plants
[CISE-2156] 16 p2465 N84-25796
Utilization of light wave scales and opto-electronic transformers for measuring distortion and expansion
[ISD-309] 16 p2557 N84-26402
On-line acquisition and processing of flight mechanical data on board the research aircraft of the Technische Universitaet, Brunswick 17 p2587 N84-26585
Research library goes online: The use of DOBIS/LIBIS at the Sandia Technical Library
[DE84-010265] 18 p2945 N84-28676
Machine monitoring for turning machine
[DE84-010214] 19 p3003 N84-29029
Local automation model: System specification
[AD-A141503] 19 p3116 N84-29786
Success with Data Management 4 at the DOE Pinellas Plant
[DE84-009021] 19 p3116 N84-29802
Omnidirectional fiber optic tiltmeter
[DE84-011109] 20 p3300 N84-30959
The user's mental model of an information retrieval system: Effects on performance
21 p3516 N84-32275
NLM (National Library of Medicine) Online Services Reference Manual: Supplement
[PB84-186808] 21 p3520 N84-32300
NASA Administrative Data Base Management Systems, 1984
[NASA-CP-2323] 22 p3671 N84-33266
Strategies for converting to a DBMS environment
22 p3671 N84-33267
The administrative window into the integrated DBMS
22 p3671 N84-33270
A user view of office automation or the integrated workstation 22 p3671 N84-33271
NATURAL graphics 22 p3672 N84-33274
Scientific and technical information transfer: Issues and options
[RAND/N-2131-NSF] 22 p3673 N84-33286
NASA RECON: Course development, administration, and evaluation
[NASA-CR-173922] 23 p3834 N84-34318
On-line edit users manual
[AD-A144021] 23 p3835 N84-34328

ONBOARD COMPUTERS
U AIRBORNE/SPACEBORNE COMPUTERS

ONBOARD DATA PROCESSING
Distributed processing and fiber optic communications in air data measurements 02 p0169 N84-11110
An on-board control and supervision system for multiple space mission applications is considered
[INPE-2824-PRE/378] 02 p0208 N84-11354
Onboard software testing and qualification
05 p0724 N84-14754
SPOT on-board software test and validation: Methodology and tools 05 p0724 N84-14755
Reliability and flexibility of the Infrared Astronomical Satellite (IRAS) on-board software
05 p0724 N84-14756
Verification and validation of Infrared Astronomical Satellite (IRAS) on-board software
05 p0725 N84-14757
Modern software development tools in space projects on the example of a Spacelab experiment
05 p0725 N84-14761
Orbital maneuvering vehicle simulation system on-board processing logic 06 p0931 N84-16052
On-board near-optimal climb-dash energy management 07 p0943 N84-16116
Strapdown inertial guidance system: Onboard software and its evaluation
[NAL-TR-775] 09 p1254 N84-18184
Assessment of data handling configurations for onboard operating system definition (phase 1)
[ESA-CR(P)-1787] 09 p1273 N84-18314
Performance assessment of Serial Minimum Shift Keying (SMSK) modulation technique. Volume 1: Executive summary
[ESA-CR(P)-1840-VOL-1] 12 p1809 N84-21796
Performance assessment of Serial Minimum Shift Keying (SMSK) modulation technique, volume 2
[ESA-CR(P)-1840-VOL-2] 12 p1809 N84-21797
An expert distributed robotics system with comprehension and learning abilities in the aircraft flight domain
[AD-A139626] 15 p2384 N84-25300
Compression and Decompression of Imaging Sensor Signals (CADISS): An image (de)compression system for deep space application
[NLR-MP-83028-U] 15 p2390 N84-25339
Proceedings of the 12th Symposium on Aircraft Integrated Data Systems
[DFVLR-MITT-84-01] 17 p2585 N84-26585
Are we giving aircraft integrated data systems users the best information in the best way at the best time?
17 p2585 N84-26586
Aircraft Integrated Data Systems (AIDS) on medium size aircraft 17 p2587 N84-26582
On-line acquisition and processing of flight mechanical data on board the research aircraft of the Technische Universitaet, Brunswick 17 p2587 N84-26585
Assessment of data handling configuration for on-board operation system definition
[DM55/JPS/JP/321.82] 19 p2982 N84-28898
MIL-STD-1750A as a spaceborne instruction set architecture
[AD-P003554] 21 p3334 N84-31158
Sensor noise and Kalman filter for aided inertial navigation system
[AD-A143360] 22 p3534 N84-32372
Telemetry/Telecommand (TM/TC) processor study
[MATRA-144-TM-TC-03-002] 23 p3699 N84-33448
The TM/TC processor study report — telemetry/telecommand (TM/TC)
[BL-5577] 23 p3700 N84-33449
A fault-tolerant multiprocessing unit for on-board satellite supervision and control
[INPE-3244-PRE/590] 24 p3866 N84-34500

ONBOARD EQUIPMENT
NT AIRBORNE EQUIPMENT
NT AIRBORNE/SPACEBORNE COMPUTERS
NT AIRCRAFT EQUIPMENT
NT FLYING EJECTION SEATS
NT SPACECRAFT ELECTRONIC EQUIPMENT
NT SPACECRAFT EQUIPMENT
Cosmonauts use new instruments for Earth study
05 p0633 N84-14162
Elektrotopograf experiment on Salyut-7
05 p0633 N84-14163
AFTI/F-16: An integrated system approach to combat automation 06 p0773 N84-15063
Concept of a fighter aircraft weapon delivery system
06 p0773 N84-15064
Hardware-in-the-loop simulation techniques used in the development of the Sea Harrier avionic system
06 p0774 N84-15071
A small and light weight heat exchanger for on-board helium refrigerator 06 p0819 N84-15339
Proton electrostatic analyzer
[AD-A133568] 06 p0848 N84-15528
Analysis of a high-frequency Stirling Cycle compressor for cryogenic cooling in space
[NASA-TM-85066] 06 p0852 N84-15555
Local area networks: Impact on shipboard applications 06 p0907 N84-15888
Climb-dash real-time calculations
[NASA-CR-173184] 07 p0943 N84-16115
Integrated testing and maintenance technologies
[AD-A138587] 13 p1925 N84-22528
Electromagnetic compatibility in aerospace vehicles
[NLR-MP-83002-U] 15 p2320 N84-24929
Safety assurance of ESA spacecraft and associated equipment
[ESA-PSS-01-40-ISSUE-1] 16 p2500 N84-26039
Material and process selection and quality control for ESA spacecraft and associated equipment
[ESA-PSS-01-70-ISSUE-2] 16 p2500 N84-26040
Quality assurance of test houses for ESA spacecraft and associated equipment
[ESA-PSS-01-203-ISSUE-1] 16 p2500 N84-26042
CSTS: The software test system for the TORNADO auto pilot
[MBB-FE-325/S/PUB/116] 16 p2562 N84-26436
Investigation of fast initialization of spacecraft bubble memory systems
[NASA-TM-85832] 18 p2832 N84-27977
Distributed avionic computers
[AD-A142140] 19 p3073 N84-29494
Cabin air quality
[GPO-29-522] 20 p3283 N84-30702
A fault-tolerant multiprocessing unit for on-board satellite supervision and control
[INPE-3244-PRE/590] 24 p3866 N84-34500

ONE DIMENSIONAL FLOW
The interfaces of one-dimensional flows in porous media
[AD-A132662] 05 p0681 N84-14478
The 1-dimensional structured phase transformations under prescribed loads
[AD-A132807] 05 p0736 N84-14835

ONE-PHASE FLOW
U SINGLE-PHASE FLOW

ONISOTROPY
U ANISOTROPY

ONSAGER RELATIONSHIP
Estimation of wear rate during selective mass transfer
17 p2642 N84-26903

ONTARIO
Granitic rocks and metasediments in Archean crust, Rainy Lake area, Ontario: ND isotope evidence for mantle-like SM/ND sources 11 p1680 N84-20964

OOCYTES
U GAMETOCYTES

OPACITY
Switching-speed improvements in PLZT shutters
[DE83-013096] 02 p0214 N84-11403
The effect of opacity on theoretical models of RR Lyrae stars 04 p0619 N84-14081
The calculation of theoretical chromospheric models and the interpretation of solar spectra from rockets and spacecraft
[NASA-CR-175351] 07 p1092 N84-17105
Proposals for VIRA (Venus International Reference Atmosphere): Solar and thermal radiation
[PR-829] 08 p1244 N84-18135
Some investigations about the Carson opacities
[DE84-003785] 09 p1415 N84-19262
A computer program for calculating non-LTE model stellar atmospheres 15 p2423 N84-25554
Chemical abundances in old open and metal-rich globular clusters in the galaxy 16 p2577 N84-26539
Measurement of thickness of SiO/sub 2 insulation layers in silicon structures with dielectric insulation
18 p2824 N84-27929

OPEN CHANNEL FLOW
A stochastic method in hydraulic design of open channels
[PREPRINT-790] 12 p1817 N84-21845
The probabilistic analysis on the influence of roughness to depth and velocity in open channels
[PREPRINT-792] 12 p1817 N84-21847

OPEN CIRCUIT VOLTAGE
Process Research On Polycrystalline Silicon Material (PROPSM)
[NASA-CR-173753] 18 p2869 N84-28214
Characterization of open circuit voltage and capacity as a function of time 23 p3736 N84-33673
Kinetics of open circuit processes in undischarged Li/SOCl2 cells
[CONTRIB-336] 23 p3736 N84-33675

OPEN PROJECT
Plasma source for spacecraft potential control
[NASA-CR-174552] 01 p0028 N84-10177

OPENINGS
NT APERTURES
NT SYNTHETIC APERTURES
Numerical determination of the effects of boundary conditions on the instability of composite panels with cutouts
[AD-A136772] 10 p1517 N84-19931
Effect of impact damage and open holes on the compression strength of tough resin/high strain fiber laminates — graphite-epoxy composites
[NASA-TM-85756] 11 p1627 N84-20650

OPERATING COSTS
Productivity and the forging industry
09 p1293 N84-18448
Proven design + new technology = reliability + economy — aircraft engines
[PNR-90199] 13 p1999 N84-22973
Space station: Cost and benefits
[NASA-CR-173718] 18 p2806 N84-27815
Operating costs of aircraft and flight simulators
[AD-A144241] 24 p3969 N84-35132

OPERATING SYSTEMS (COMPUTERS)
NSW (National Software Works) executive enhancements II
[AD-A129022] 01 p0120 N84-10781
SPEC-DOC: A user's guide to spectrometer software
[DE83-013295] 02 p0274 N84-11790
Specification for a Program for an Interative Aeroelastic Solution (PIAS)
[NASA-CR-172200] 04 p0479 N84-13153

Adaptive machines: Examples of architecture, modeling and evaluation
[ENST-E-83009] 09 p1366 N84-18916
Operating system for a real-time multiprocessor propulsion system simulator
[NASA-TM-83605] 10 p1568 N84-20258
Detailed design and implementation of a multiprogramming operating system for sixteen-bit microprocessors
[AD-A136078] 12 p1880 N84-22256
Detailed design and implementation of a multiprogramming operating system for sixteen-bit microprocessors
[AD-A136083] 12 p1880 N84-22257
Development and operation of a real-time data acquisition system for the NASA, Langley Research Center Differential Absorption Lidar
[NASA-CR-173397] 12 p1918 N84-22495
Cronus: A distributed operating system
[AD-A139588] 14 p2209 N84-24260
The embedded operating system project
[NASA-CR-173438] 16 p2542 N84-26319
The Ada (Trademark) run-time environment
[AD-P003558] 21 p3335 N84-31162
Reliability analysis of an ultra-reliable fault tolerant control system
[NASA-CR-166594] 21 p3345 N84-31219

OPERATIONAL AMPLIFIERS
Phase detector for three-phase power factor controller
[NASA-CASE-MFS-25854-1] 18 p2832 N84-27975
Basic EMC (electromagnetic compatibility) technology advancement for c3 systems. Volume 1: A nonlinear macromodel of the bipolar integrated circuit operational amplifier for electromagnetic interference analysis
[AD-A141369] 19 p3004 N84-29040
Total temperature probe buffer amplifier
[AD-D011037] 19 p3027 N84-29197

OPERATIONAL HAZARDS
A systematic characterization of the effects of atmospheric electricity on the operational conditions of aircraft 06 p0776 N84-15066

OPERATIONAL PROBLEMS
The analysis of records of parameters: An indispensable tool in oversight and in operations control
06 p0775 N84-15062
Spaceborne Gravity Gradiometers. Part 4: Common problems 09 p1336 N84-18720
LANDSAT-4 status 10 p1523 N84-19973
EValuation of a 96V EV 1000 battery pack at temperature extremes
[PB84-187723] 20 p3182 N84-30217
Evaluation of an 96V ALCO 2200 battery pack at temperature extremes
[PB84-187731] 20 p3182 N84-30219

OPERATIONS
Vehicle-emission characteristics using mechanically emulsified alcohol/diesel fuels
[DE83-016012] 03 p0406 N84-12656
Design and evaluation of small water turbines
[DE84-000404] 04 p0544 N84-13586

OPERATIONS RESEARCH
NT LINEAR PROGRAMMING
NT MATHEMATICAL PROGRAMMING
NT NONLINEAR PROGRAMMING
NT QUADRATIC PROGRAMMING
Dynamic programming algorithm and analyses for nonserial networks, part 2
[AD-A130905] 01 p0123 N84-10798
On the use of replacements to extend system life
[AD-A132878] 05 p0690 N84-14532
A summary of the Naval Postgraduate School Research Program
[AD-A132871] 05 p0766 N84-15024
Research in some applied, and the modelling aspects of, reliability theory
[AD-A133424] 06 p0855 N84-15567
ISIS: A constraint-directed reasoning approach to job shop scheduling
[AD-A133296] 06 p0933 N84-16063
European Scientific Notes. Volume 37, number 9
[AD-A133558] 06 p0935 N84-16079
Various aspects of network reliability
[AD-A136579] 09 p1384 N84-19036
European Scientific Notes, volume 38, number 1
[AD-A136668] 10 p1566 N84-20472
Statistics and operations research in Europe--1983
[AD-A138853] 13 p2037 N84-23215
Bibliography of technical publications and papers, October 1982 - September 1983
[AD-A138907] 13 p2067 N84-23403
A problem in the optimal control of queueing workloads for the M/G/1 file
[INPE-3106-PRE/505] 16 p2546 N84-26339
Abstraction, specification and implementation techniques with an application to garbage collection — data processing
[MATH-CENTRE-TRACTS-166] 21 p3467 N84-31980

OPERATOR PERFORMANCE
Proceedings of the 18th Annual Conference on Manual Control
[AD-A131256] 01 p0118 N84-10763
Method for assessing mental stress in operators
02 p0262 N84-11715
Processing phenomena and the dissociation between subjective and objective workload measures
[AD-A134050] 05 p0715 N84-14686
The ability to process abstract information
[AD-A133794] 05 p0716 N84-14689
Human visual information processing: Basic viewpoints from psychology and human engineering research
[NLR-MP-82032-U] 06 p0892 N84-15798
An experimental comparison of operator responses to voice and tone system warnings
[BAE-BT-12051] 13 p2023 N84-23117
Robotics impact on labor productivity examined
14 p2187 N84-24104
A multivariate autoregressive display monitoring model
[NLR-MP-83033-U] 15 p2384 N84-25296
Prolonged heavy vehicle driving performance: Effects of unpredictable shift onset and duration and convoy versus independent driving conditions
[AD-A139747] 15 p2384 N84-25298
Princeton VLSI project
[AD-A140588] 17 p2663 N84-26986
Display-control compatibility in 3-D displays
[AD-A140640] 17 p2748 N84-27444
The structure of processing resource demands in monitoring automatic systems
[AD-P003319] 18 p2910 N84-28455
Tracking with intermittent radar coverage. 1: Interruptions after each collected frame of imagery
[AD-P003322] 18 p2910 N84-28458
Tracking with intermittent radar coverage. 2: Interruptions after two or more consecutively-collected frames of imagery
[AD-P003323] 18 p2910 N84-28459
Factors affecting visual performance with stereoscopic television displays
[AD-P003362] 18 p2913 N84-28475
Ergonomic aspects of road vehicles. Part 1: A literature survey of some aspects
[IZF-1983-15] 18 p2915 N84-28487
Man-machine systems group
[WTHD-161] 20 p3263 N84-30703
Summaries of doctorate theses — man machine systems 20 p3263 N84-30705
Modeling the human operator's supervising behavior — industrial plants 20 p3264 N84-30707
A utility plant simulator for control room experiments
20 p3264 N84-30708
Human reliability analysis using event trees
[S/T-REPT-VOL-1-NO-3] 20 p3265 N84-30718
Visual perception in systems management in aeronautics 22 p3632 N84-33017
The functional condition of seamen under conditions of the southern maritime area 23 p3807 N84-34137
Operator alertness/workload assessment using stochastic model-based analysis of myoelectric signals
[AD-A144535] 24 p3937 N84-34921

OPERATORS
Annals of the Fourier Institute, volume 33, no. 4
[ISSN-0373-0956] 13 p2031 N84-23172
Annals of the Fourier Institute, volume 34, no. 2
[ISSN-0373-0956] 22 p3635 N84-33038

OPERATORS (MATHEMATICS)
On space-time means and everywhere defined scattering operators for nonlinear Klein-Gordon equations
[CTH-MATH-1983-13-PREPRINT] 03 p0426 N84-12793
Method of operator splitting or fractional steps and its applications to fluid-dynamic modelling
[DE84-000800] 04 p0534 N84-13511
Convolution of generalized vector measures
04 p0577 N84-13803
Active control of large flexible space structures
05 p0644 N84-14235
A lower-upper factored implicit scheme for the numerical solution of the Euler equations applied to arbitrary cascades 06 p0780 N84-15111
Unified operator description, nonlinear buckling and post-buckling analysis of thin elastic shells
[RUB-IFM-MITT-34] 06 p0857 N84-15582
Experience with a regular expression compiler
[AD-A135202] 08 p1209 N84-17888
Applications of Non-Self-Adjoint operator theory to the Singularity Expansion Method (SEM) and to the Eigenmode Expansion Method (EEM) in acoustic and electromagnetic problems
[AD-A135177] 08 p1219 N84-17955
Convergence of quadratic forms in p-stable random variables and theta sub p-radonifying operators
[AD-A135314] 08 p1219 N84-17959
Formulae for configuration averages of products of 1-body and 2-body operators in many-fermion spaces
[DE84-002634] 08 p1221 N84-17971
Regular operator approximation theory
[HMI-B-389] 08 p1226 N84-18008
Applications of natural constraints in critical point theory to boundary value problems on domains with rotation symmetry
[AD-A136404] 09 p1374 N84-18976
Geographic operators for management of a data base for frequency planning — geographic data base for radio mobile systems 10 p1476 N84-19648
Applied mathematics of transport theory
[DE84-004135] 10 p1590 N84-20422
Family of almost periodic Schroedinger operators
[DE83-017308] 11 p1717 N84-21199
An operator calculus for surface and volume modeling
12 p1869 N84-22180
Image filtering with Boolean and statistical operators
[AD-A138421] 12 p1908 N84-22428
The Fourier Plancherel transform of the analytic Lie group. 1: Weyl algebras and differential operators
13 p2032 N84-23176
Littlewood Paley's g function associated with a singular differential operator (0, infinity) 13 p2032 N84-23180
Exponential calculus of microdifferential operators of infinite order, part 1 13 p2033 N84-23181
Formulas for the L-2 minimal solutions of the Delta Delta bar equation in the unit ball of C sup N
[CTH-MATH-1983-16-PREPRINT] 13 p2034 N84-23189
Linear Volterra convolution equations: Semigroups small solutions and convergence of projection operators
[MC-TW-248/83] 13 p2038 N84-23223
Stability of C* algebras of a foliated manifold
14 p2211 N84-24273
Data base dependent aggregation operators in a map oriented information system
[FOA-C-30347-E1] 15 p2417 N84-25514
Element-by-element solution procedures for nonlinear transient heat conduction analysis
16 p2494 N84-26000
Resolution of singularities of integral quadratic forms
[CTH-MATH-1983-22] 17 p2761 N84-27538
LCAP2 (Linear Controls Analysis Program). Volume 2: Interactive LCAP2 user's guide
[AD-A141145] 18 p2924 N84-28542
Hyperbolicity and change of type in the flow of viscoelastic fluids
[AD-A141508] 19 p3023 N84-29172
Multiple limit point bifurcation for Fredholm operators of non-zero index
[AD-A141660] 19 p3066 N84-29589
Finite dimensional compensators for infinite dimensional systems with unbounded control action
[AD-A142808] 21 p3472 N84-32002
Spline approximation for retarded systems and the Ricatti equation
[AD-A142963] 21 p3473 N84-32010
Annals of the Fourier Institute, volume 34, no. 1
[ISSN-0373-0956] 22 p3633 N84-33025
Singularities connected with a trace on a Banach algebra 22 p3634 N84-33034
Fatou theorem for the proper functions of invariant potential operators by a group of Cartan displacements
22 p3635 N84-33037
Uniqueness in the Cauchy problem for second order operators with real symbols 22 p3636 N84-33045
Completely continuous multipliers from L sub 1 (G) into L sub infinity (G) 22 p3636 N84-33047
Algorithmization and programming of operator activities for parametric synthesis of speech using the CT-1 system controlled by the MERA 303 minicomputer
[ISSN-0208-5658] 23 p3729 N84-33634
Multiparameter maximal functions along dilation-invariant hypersurfaces
[CTH-MATH-1984-11] 23 p3819 N84-34215
A remark on the Korteweg-de Vries equation
[PREPRINT-403] 23 p3819 N84-34218
A study of some multi-grid ideas
[AD-A144465] 24 p3951 N84-35021
Iterative methods for elliptic problems and the discovery of Q
[AD-A144483] 24 p3952 N84-35022

OPERATORS (PERSONNEL)
NT AIRCRAFT PILOTS
NT PILOTS (PERSONNEL)

An approach to modeling of human performance for purposes of probabilistic risk assessment
[DE83-009292] 02 p0269 N84-11764
Methods for improving the user-computer interface
[AD-A132657] 05 p0719 N84-14713
Terminal work in the process industry: Experience in a time perspective. Part 2: A few years after the installation — computer terminal operators
[FOA-C-56039-H2-PT-2] 08 p1141 N84-17422
Researching the man-machine system as a function of soil-environment system 10 p1511 N84-19894
Investigation of the effect of the viewing target height on the eye height of sitting Visual Display Unit (VDU) operators
[IZF-1983-9] 12 p1869 N84-22177
Human decisionmaking in dynamic environments with increasing information processing demands
[AD-P002884] 13 p1979 N84-22845
Prolonged heavy vehicle driving performance: Effects of unpredictable shift onset and duration and convoy versus independent driving conditions
[AD-A139747] 15 p2384 N84-25298
A model of human problem solving in dynamic environments
[AD-A140862] 17 p2748 N84-27446
A multiple processing resource explanation of the subjective dimensions of operator workload
[AD-A141455] 19 p3070 N84-29480
Simulated 3-dimensional computer graphics training display for air weapons controllers. Volume 2: Users guide
[AD-A141336] 19 p3075 N84-29510
Simulated 3-dimensional computer graphics training display for air weapons controllers, volume 1
[AD-A141347] 19 p3075 N84-29511
Numerical integration with Lie-series 19 p3118 N84-29814
Operating system interface for Ada (trademark) instructors
[AD-P003433] 20 p3272 N84-30765
Improving comfort of welders by reducing preheating temperatures — steel welding
[CETIM-12-Y-413] 21 p3414 N84-31651
Results of psychophysiological study of Videoton terminal operators 21 p3454 N84-31919
Link between characteristics of EEG rhythms in biofeedback control and indexes for operator activity 21 p3455 N84-31927
Link between blood catecholamine levels and individual features in dynamics of operator error 21 p3456 N84-31929
Development of a general model of the car drivers eye movement sequences and effects of subject and environmental variables
[AD-A144180] 24 p3936 N84-34915

OPHTHALMOLOGY
NT EYE EXAMINATIONS
Ergo-ophthalmological aspects of the VDU: Visual strain and the blue light lesion
[DRIC-T-6921] 09 p1361 N84-18893
Yellow ophthalmic filters in the visual acquisition of aircraft
[AD-A138536] 13 p2020 N84-23097
Ophthalmological investigation among contact lens wearers in military service
[REPT-AR/MHAM-1983-1] 21 p3458 N84-31940

OPTICAL ABSORPTION
U ELECTROMAGNETIC ABSORPTION
U LIGHT TRANSMISSION

OPTICAL ACTIVITY
Scattering optical activity of chiral molecules: Circular intensity differential scattering and circular differential imaging
[DE84-010712] 21 p3493 N84-32137

OPTICAL AMPLIFIERS
U LIGHT AMPLIFIERS

OPTICAL BISTABILITY
Topical Meeting on Optical Bistability
[AD-A138998] 14 p2231 N84-24381
Chaos and optical bistability: Bifurcation structure 14 p2231 N84-24382
Optical bistability with two-level atoms 14 p2231 N84-24383
Optical bistability, chaos in the coherent two photon processes 14 p2231 N84-24384
Turbulence and 1/f noise in quantum optics 14 p2232 N84-24385
Self-pulsing, breathing and chaos in optical bistability and the laser with injected signal 14 p2232 N84-24386
Multistability, self-oscillation and chaos in nonlinear optics 14 p2232 N84-24387
Chaos in optical bistability 14 p2232 N84-24388
The physical mechanism of optical instabilities 14 p2232 N84-24389
Connection between Ikeda instability and phase conjugation 14 p2232 N84-24390
Critical quantum fluctuations in optical bistability 14 p2232 N84-24391
Fluctuations in optical bistability: Experiment with shot noise 14 p2232 N84-24392
Room temperature optical bistability in semiconductors and realization of optical and gates 14 p2233 N84-24393
Advances in GaAs bistable optical devices 14 p2233 N84-24394
Nonlinearities at the bandgap in InAs 14 p2233 N84-24395
Mirrorless intrinsic optical bistability due to the local field correction in the Maxwell-Bloch formulation 14 p2233 N84-24397
Room-temperature thermal optical bistability in thin-film interference filters and dye-filled etalons 14 p2234 N84-24402
Self-defocusing and optical crosstalk in a bistable optical etalon 14 p2234 N84-24403
Routes to optical turbulence in a dispersive ring bistable cavity containing saturable nonlinearities 14 p2234 N84-24404
Resonant Frustrated Total Reflection (FTR) approach to optical bistability in semiconductors 14 p2234 N84-24405
Optical hysteresis and bistability in the wave-front conjugation by electrooptic crystals 14 p2234 N84-24406
Theory of resonance-enhanced optical nonlinearities in semiconductors 14 p2234 N84-24407
Observation of bistability in a Josephson device 14 p2235 N84-24409
Theory of multistability in Josephson junction devices 14 p2235 N84-24410
Zeeman coherence effects in absorptive polarization bistability 14 p2235 N84-24412
Effect of driving laser fluctuations on optical bistability 14 p2235 N84-24413
Optical bistability in nonlinear media an exact method of calculation 14 p2236 N84-24414
Self-beating instabilities in bistable devices 14 p2236 N84-24415
Empirical and analytical study of instabilities in hybrid optical bistable systems 14 p2236 N84-24416
Distributed feedback bistability in channel waveguides 14 p2236 N84-24417
Cyclotron bistability of electrons in vacuum and semiconductors 14 p2236 N84-24418
Switching behavior of bistable resonators filled with two-level atoms 14 p2236 N84-24419
Polarization bistability in cholesteric liquid crystals 14 p2236 N84-24420
Simulations of the dynamics of optical bistability with fluctuations 14 p2236 N84-24421
Instabilities and chaos in TV-optical feedback 14 p2237 N84-24422
Polarization switching with J=1/2 to J=1/2 atoms in a ring cavity 14 p2237 N84-24423
Optical bistability based on self-focusing 14 p2237 N84-24424
Optical bistability in four-level nonradiative dyes 14 p2237 N84-24425
Travelling wave bistability 14 p2237 N84-24426
Optical nonlinearity and bistability due to the biexciton two-photon resonance in CuCl 14 p2239 N84-24441
Optical extinction theorem theory of optical multi-stability bifurcations and turbulence in the Fabry-Perot interferometer 14 p2239 N84-24442
Optical bistability from the Dicke model 14 p2239 N84-24443
Considerations involved in the design of an optical digital computer 14 p2239 N84-24444
Transverse solitary waves in a dispersive ring bistability cavity containing a saturable nonlinearity 14 p2240 N84-24446
Absorptive optical bistability in a bad cavity 14 p2240 N84-24448
Critical slowing down and magnetically-induced self-pulsing in a sodium-filled Fabry-Perot resonator 14 p2240 N84-24449
Optical bistability and hysteresis under phase conjugation in CdS crystal 14 p2240 N84-24450
Low power optical bistability near bound excitons in cadmium sulfide 14 p2241 N84-24451
Vacuum-deposited thin-film interferometers as bistable devices operating continuously at room temperature 14 p2241 N84-24453
Multistability due to the helical optical distributed feedback in the cholesteric liquid crystals 14 p2241 N84-24454
Bistable injection lasers 14 p2241 N84-24455
Optical bistability in CuCl 14 p2241 N84-24456
Radiation pressure induced optical bistability 14 p2241 N84-24457

OPTICAL COMMUNICATION
Scaling studies of efficient Raman converters
[AD-A130382] 01 p0096 N84-10560
Detectors for optical communications: A review 04 p0518 N84-13404
White light signal processing with the application to spread spectrum communications
[AD-A132418] 04 p0520 N84-13417
Aperture averaging of scintillation for space-to-ground optical communication applications
[AD-A132198] 04 p0521 N84-13428
A survey of electric laser codes
[AD-A132352] 04 p0540 N84-13551
Multiwavelength bidirectional coupler-decouplers
[AD-A132908] 05 p0747 N84-14907
Optical multiplexers and demultiplexers for optical wavelength-division multiplex transmission systems
[BMFT-FB-T-83-167] 05 p0748 N84-14912
Activities report in communications research performed in cooperation with Higher Institute for Posts and Telegraph (ISPT) 06 p0626 N84-15384
Long wavelength InGaAsP/InP lasers and optoelectronic integration 08 p1163 N84-17573
Advanced filter technology
[AD-A135446] 08 p1232 N84-18050
Optical scintillation statistics for infrared ground-to-space laser communication systems
[AD-A136807] 09 p1299 N84-18495
Communication system studies for the submarine laser communications system
[AD-A135661] 09 p1301 N84-18504
Fiber-optic communications systems
[AD-A137138] 11 p1644 N84-20749
Cylindrical v-grooved non-metallic optical fibre cable 11 p1723 N84-21242
Design and test results of optical fiber units for optical submarine cable 11 p1723 N84-21243
Metal-free cylindrical v-grooved optical cable 11 p1724 N84-21244
Design, fabrication and testing of a ruggedized fiberoptic cable 11 p1724 N84-21245
A rodent and lightning protective sheath for fiber optic cables 11 p1724 N84-21246
A practical single-mode system, 50 km at 140 mbit/s 11 p1725 N84-21253
Performance characteristics of VAD single mode fibers in mass production basis 11 p1725 N84-21254
Recent developments in mini-unit cable 11 p1725 N84-21255
Manufacture cables with low losses 11 p1725 N84-21256
Advances in white-light optical signal processing 12 p1905 N84-22406
Optical bistability: A novel approach to optical signal processing and communications 12 p1905 N84-22411
Background sources in optical communications
[NASA-CR-173457] 12 p1907 N84-22422
Optical communication with laser diode arrays
[NASA-CR-173533] 14 p2150 N84-23879
Optical fiber characterization: Attenuation, frequency domain bandwidth, and radiation patterns, volume 2
[PB84-158914] 14 p2226 N84-24357
Blue-green propagation through clouds 15 p2323 N84-24849
XeF pumped Tm:YLF laser scaling
[AD-A140004] 15 p2339 N84-25041
The frequency characteristics of optical components used for communication systems based on optical frequency-division multiplex
[FI-451-TBR-9] 15 p2407 N84-25451
Noise immunity of optical lines with imprecise levels of signal and noise 17 p2634 N84-26852
Optical signal processing for surveillance
[AD-A140957] 18 p2932 N84-28591
Connector and cable assembly specifications for the SHAPE fiber optic network
[AD-A141280] 18 p2932 N84-28593
Acquisition cost analysis for the near term military application of laser versus millimeter wave for satellite crosslink communications
[AD-A141061] 19 p3004 N84-29037
Strategic blue-green communication filters
[AD-A142353] 20 p3173 N84-30151
Nonlinear real-time optical signal processing
[AD-A142619] 20 p3300 N84-30956
Peculiarities in construction of optical receivers for digital fiber-optic communication lines 22 p3568 N84-32598
Synchronization tracking in pulse position modulation receiver
[NASA-CASE-NPO-16256-1] 22 p3572 N84-32620
Optics and quantum electronics 22 p3682 N84-33343
Optical propagation and communication 22 p3683 N84-33355

Timing performance of phased-locked loops in optical pulse position modulation communication systems
[NASA-CR-173970] 23 p3824 N84-34253
Optical flip-flop system
[AD-D011165] 23 p3825 N84-34261
Prospects of laser communications in space 24 p3903 N84-34718
Intersatellite links: Requirements for future missions and limitations from spacecraft resources 24 p3904 N84-34723
Technologies for intersatellite optical communications 24 p3904 N84-34727
Characterization of high powered laser diodes — spacecraft communication 24 p3904 N84-34728
Experimental assessment of semiconductor lasers for optical data links in space 24 p3905 N84-34729
Optical data links for the STAR mission 24 p3905 N84-34730
A CO2 laser transceiver package with Gbit/sec capability for space-to-space communications 24 p3905 N84-34731
Receiver concepts for data transmission at 10 microns — between satellites 24 p3905 N84-34732
The concept of the Low Intermediate Frequency Translation Loop (LIFTL) and its application on a CO2 laser intersatellite data link system 24 p3905 N84-34733
Accomodation of candidate laser communication links on selected spacecraft configurations 24 p3905 N84-34734
Pointing, acquisition and tracking for intersatellite optical data links 24 p3905 N84-34735
The optical characteristics of lightning 24 p3927 N84-34858

OPTICAL COMPUTERS
On the application of optical signal processing to the solution of Riccati equations
[AD-A130710] 01 p0133 N84-10869
The 19th Electrical Communication Research Institute Symposium: Future prospects for the optical computer 23 p3740 N84-33708
Optical computing research
[AD-A143994] 23 p3825 N84-34258
Space-variant optical systems
[AD-A143996] 23 p3825 N84-34259

OPTICAL CORRECTION PROCEDURE
The estimation and correction of refractive bending in the AR3-D tactical radar systems 15 p2325 N84-24958
Adaptive compensation for atmospheric turbulence effects on optical propagation 15 p2325 N84-24960

OPTICAL COUNTERMEASURES
Annual meeting of the Pyrotechnics and Explosives Applications Section on the American Defense Preparedness Association
[AD-A143157] 21 p3373 N84-31406
Extracts from symposium: Countersurveillance 1983
[MRL-R-921] 24 p3914 N84-34779
Two approaches to the instrumental estimation of detectability 24 p3915 N84-34789

OPTICAL COUPLING
Multiwavelength bidirectional coupler-decouplers
[AD-A132908] 05 p0747 N84-14907
On 3He bolometer systems
[NASA-CR-175325] 06 p0846 N84-15520
A low loss quasioptical cavity for a two-stage Free Electron Laser (FEL)
[AD-A133321] 06 p0850 N84-15541
Optical imaging of a coupling region between inter-streaming plasmas
[AD-A139191] 14 p2224 N84-24348
XeF pumped Tm:YLF laser scaling
[AD-A140004] 15 p2339 N84-25041

OPTICAL DATA PROCESSING
NT SCENE ANALYSIS
Optical systems and statistical optics
[AD-A131297] 02 p0294 N84-11928
Turbulence environment characterization
[AD-A131815] 03 p0411 N84-12692
Recording and reproduction of microwave holograms using a scanning procedure and their subsequent optical processing
[NASA-TM-77349] 06 p0846 N84-15519
Optical data processing for missile guidance
[AD-A136216] 09 p1254 N84-18188
A comparison of optical versus hardware fourier transforms
[AD-A136223] 09 p1373 N84-18963
Optical signal processing
[AD-A135906] 09 p1389 N84-19074
Acousto-optic processing of 2-d signals using temporal and spatial integration
[AD-A136066] 09 p1390 N84-19076
Optical processing in radon space
[AD-A137033] 10 p1579 N84-20343
Optical Information Processing for Aerospace Applications 2
[NASA-CP-2302] 12 p1904 N84-22402
Future directions in optical processing 12 p1904 N84-22403
Image-plane processing for improved computer vision 12 p1904 N84-22404
Optical systolic solutions of linear algebraic equations 12 p1905 N84-22405
Advances in white-light optical signal processing 12 p1905 N84-22406
Spatial interferometry for white light processing: The coherence interferometer 12 p1905 N84-22407
A hybrid silicon membrane spatial light modulator for optical information processing 12 p1905 N84-22408
The applications of silicon liquid crystal light valves to optical data processing: A review 12 p1905 N84-22409
Optical pulse generator using liquid crystal light valve 12 p1906 N84-22414
Programmable masks for optical information processing 12 p1906 N84-22415
Optical residue addition and storage units using a Hughes liquid crystal light valve 12 p1906 N84-22417
Integrated-optical approaches to matrix multiplication 12 p1906 N84-22418
Systolic triple-matrix product calculations 12 p1906 N84-22419
Feasibility studies of optical processing of image bandwidth compression schemes
[AD-A138736] 13 p2043 N84-23254
Real-time implementation of nonlinear optical processing functions
[AD-A138843] 13 p2043 N84-23256
Considerations involved in the design of an optical digital computer 14 p2239 N84-24444
Optical processing 16 p2490 N84-25975
The role of the Automated Plate Measuring (APM) machine in developing a program to discover QSOs automatically 18 p2843 N84-28054
RIMSTAR: Rapid image scanning technology and archiving 18 p2843 N84-28055
Optical adaptive filter. Frequency domain implementation
[AD-A141090] 19 p3104 N84-29718
Phase conjugate optics
[AD-A141960] 20 p3299 N84-30951
Switchable zero order diffraction gratings as light valves
[AD-A142513] 20 p3300 N84-30953
Nonlinear real-time optical signal processing
[AD-A142619] 20 p3300 N84-30956
Modular image analysis system
[BMFT-FB-T-84-074] 21 p3499 N84-32177
The 19th Electrical Communication Research Institute Symposium: Future prospects for the optical computer 23 p3740 N84-33708
Structural description of a LANDSAT Thematic Mapper (TM) scene for improved region-based classification 23 p3766 N84-33873
Optical acquisition, image and data compression
[AD-A143984] 23 p3816 N84-34197
Optical computing research
[AD-A143994] 23 p3825 N84-34258
Space-variant optical systems
[AD-A143996] 23 p3825 N84-34259
Thomson develops new optical reader, digital switching system: Gigadisc reader recorder 24 p3891 N84-34638
Optical processing, its role in surveillance 24 p3915 N84-34788
White light optical information processing
[AD-A144142] 24 p3963 N84-35096

OPTICAL DATA STORAGE MATERIALS
Bibliography of the literature on optical storage technology
[PB84-150184] 14 p2204 N84-24227

OPTICAL DENSITY
Switching-speed improvements in PLZT shutters
[DE83-013096] 02 p0214 N84-11403
Atmospheric effects on remote sensing of the Earth's surface 12 p1832 N84-21943
The PDS for space telescope guide star selection system: Status and improvements 18 p2840 N84-28032
An improved logarithmic amplifier circuit for PDS microdensitometers 18 p2841 N84-28034
Photographic memory: The storage and retrieval of data 18 p2843 N84-28053
Computer simulation of the effects of transmission-averaging in microdensitometry 18 p2843 N84-28056
Optical density radiation dose relationship — radiography
[CETIM-100680] 21 p3497 N84-32162
Turbulent diffusion, dissipation, and winds from calibrated photographs of artificial clouds
[AD-A143231] 22 p3623 N84-32956

OPTICAL DISKS
Thomson develops new optical reader, digital switching system: Gigadisc reader recorder 24 p3891 N84-34638

OPTICAL EMISSION
U LIGHT EMISSION

OPTICAL EMISSION SPECTROSCOPY
NT LASER SPECTROSCOPY
Stationary and non-stationary nonlinear optical spectroscopy on surface polaritons
[NASA-TM-77388] 10 p1578 N84-20340
Infrared nonlinear optics 22 p3682 N84-33346
UV and optical spectroscopy of classical novae during outburst 24 p3979 N84-35202
Dwarf novae through the outburst cycle 24 p3979 N84-35203
UV and optical spectroscopy of W Serpentis objects 24 p3980 N84-35212
Preliminary results of coordinated optical UV and X-ray observations of magnetic white dwarfs in binaries 24 p3980 N84-35216
Coordinated X-ray, ultraviolet, optical, and infrared observations of the transient source A0535+26 — X ray source 24 p3981 N84-35219

OPTICAL EQUIPMENT
NT ASTRONOMICAL TELESCOPES
NT CAMERAS
NT COLLIMATORS
NT DIFFRACTOMETERS
NT ELECTROPHOTOMETERS
NT ELLIPSOMETERS
NT FAINT OBJECT CAMERA
NT FRAMING CAMERAS
NT GEODIMETERS
NT HIGH DISPERSION SPECTROGRAPHS
NT HIGH SPEED CAMERAS
NT IMAGE CONVERTERS
NT IMAGE TUBES
NT INFRARED SPECTROMETERS
NT INFRARED SPECTROPHOTOMETERS
NT LASER DOPPLER VELOCIMETERS
NT MICRODENSITOMETERS
NT MULTISPECTRAL BAND CAMERAS
NT MULTISPECTRAL BAND SCANNERS
NT NEPHELOMETERS
NT OPTICAL GYROSCOPES
NT OPTICAL MEASURING INSTRUMENTS
NT OPTICAL MICROSCOPES
NT OPTICAL RADAR
NT OPTICAL SCANNERS
NT PERISCOPES
NT PHOTOMETERS
NT PINHOLE CAMERAS
NT POLARIMETERS
NT PRISMS
NT PYROHELIOMETERS
NT REFLECTOMETERS
NT REFRACTOMETERS
NT SCATTER PLATES (OPTICS)
NT SPECTROHELIOGRAPHS
NT SPECTROPHOTOMETERS
NT SPECTROSCOPIC TELESCOPES
NT STREAK CAMERAS
NT TELEVISION CAMERAS
NT THEODOLITES
NT THERMICONS
NT TRANSMISSOMETERS
NT ULTRAVIOLET SPECTROMETERS
NT X RAY TELESCOPES
An instrument to monitor the tilt of large structures
[AD-A129598] 01 p0084 N84-10544
Prototype fiber optic system to remote TRACALS radar
[AD-A132073] 03 p0360 N84-12341
Fabrication of machined optics for precision applications
[DE83-015720] 03 p0442 N84-12900
Precision support of annular optics
[DE83-017473] 04 p0605 N84-13993
Optical analog repeater development for a one GHz bandwidth recirculating delay line
[AD-A133658] 05 p0675 N84-14437
Fast optical position-sensitive detector for McPherson ESCA-36
[AD-A132606] 05 p0685 N84-14501
In situ characterization of seawater using a computerized suite of optical instruments 06 p0872 N84-15675
High-temperature, high-pressure optical cell
[NASA-CASE-MFS-26000-1] 07 p1075 N84-16986
Electronic damping of a large optical bench 10 p1514 N84-19914
Processing of optical gray value patterns
[BMFT-FB-DV-83-003] 10 p1579 N84-20348

Studies of 3-5 compound semiconductors for optical and microwave applications
[AD-A137849] 11 p1744 N84-21381
Description of optical measurement techniques for the interaction of shock waves with objects
[PML-1983-10] 12 p1904 N84-22401
Deconvolution of aberrations in optical systems
[AD-A138096] 12 p1907 N84-22425
Optical engineering at Los Alamos: A history
[DE83-009905] 12 p1908 N84-22431
Optimization of thermal systems with sensitive optics, electronics, and structures
[NASA-CR-3745] 13 p1939 N84-22608
Ultrasonic machining (impact grinding)
[DE84-007783] 15 p2344 N84-25069
Ultra lightweight mirror fabrication technology
[AD-A140019] 15 p2408 N84-25454
Visible pyrotechnic flare spectroscopy using vidicons
[AD-A140283] 16 p2474 N84-25857
The development of a new class of holographic materials
[AD-A140298] 16 p2496 N84-26017
Laser Induced Damage in Optical Materials: 1982
[PB84-175124] 16 p2498 N84-26025
A thermal vacuum issue for the screening of space materials
[ESA-PSS-01-702-ISSUE-1] 16 p2500 N84-26043
PDS concepts and astronomical applications: An overview 18 p2840 N84-28029
Advanced solar power systems 18 p2872 N84-28235
Minutes of the Fiber Optics Standardization Planning Meeting
[AD-A142152] 19 p3104 N84-29722
Multiple gap optically activated switch
[AD-D011014] 19 p3104 N84-29723
Temperature controlled adjusting mechanism
[AD-D011077] 21 p3406 N84-31601
Front lighted optical tooling method and apparatus
[DE84-011106] 21 p3406 N84-31602
New type of dye laser with light-induced distributed feedback 21 p3482 N84-32067
Optimizing tools for generating spherical surfaces and polishing powders in optical production technology
[BMFT-FB-T-84-094] 21 p3499 N84-32178
Containerless high purity pulling process and apparatus for glass fibers
[NASA-CASE-MFS-25905-2] 22 p3564 N84-32569
Peculiarities in construction of optical receivers for digital fiber-optic communication lines 22 p3568 N84-32596
Graphical error analysis
[BMFT-FB-T-84-081] 22 p3642 N84-33093
Optical power source control system
[AD-D011124] 22 p3656 N84-33175
Optical distortion analyzer system
[AD-D011127] 22 p3656 N84-33176
Spectroscopic research at high pressure and variable temperature
[AD-A143759] 23 p3713 N84-33537
Development of production technologies for the series production of optical components with aspheric surfaces
[BMFT-FB-T-84-115] 23 p3727 N84-33620
Optical flip-flop system
[AD-D011165] 23 p3825 N84-34261
Development of optomechanical deflectors for light beams and electronical-optical deflectors with subsequent generation of light to represent characters digitally or partially
[BMFT-FB-T-84-140] 23 p3826 N84-34264
Thomson develops new optical reader, digital switching system: Gigadisc reader recorder 24 p3891 N84-34638
Large diameter optical slip-rings
[WSRL-0342-TM] 24 p3963 N84-35095
White light optical information processing
[AD-A144142] 24 p3963 N84-35096
Computer aided geometrical optics design
[AD-A144559] 24 p3963 N84-35099

OPTICAL FILTERS
NT BIREFRINGENT FILTERS
NT INFRARED FILTERS
Holographic optical elements with ultra-high spatial frequencies
[AD-A132355] 04 p0538 N84-13537
Fast, self-nulling spectroscopic ellipsometer: Instrumentation and application, revision
[DE83-015531] 04 p0605 N84-13994
Advanced filter technology
[AD-A135446] 08 p1232 N84-18050
Fabry-Perot interference filters
[AD-A136511] 09 p1388 N84-19066
Super 8 film scanning set by using a CCD-line
[BMFT-FB-T-83-249] 10 p1483 N84-19697
Room-temperature thermal optical bistability in thin-film interference filters and dye-filled etalons 14 p2234 N84-24402
Multispectral linear array multiband selection device
[NASA-CASE-GSC-12911-1] 15 p2335 N84-25016
Three wavelength optical alignment of the Nova laser
[DE84-009702] 18 p2847 N84-28079
Alignment of multistate laser amplifiers with periodic space filtration of beam 21 p3381 N84-31452
Real-time optical filtering system with spatial and temporal enhancement of visual information
[AD-D011106] 22 p3656 N84-33172
Varying bandpass of optical spatial filter by rotating mirrors having changing reflectivity
[AD-D011114] 22 p3656 N84-33173
Phase-only optical filter for use in an optical correlation system
[AD-D011093] 22 p3657 N84-33187
Portable reflectance spectrometer
[NASA-CASE-NPO-13556-1] 23 p3749 N84-33766

OPTICAL GENERATORS
U LASER CAVITIES

OPTICAL GYROSCOPES
Fiber optic sensors
[NASA-TM-77404] 14 p2224 N84-24346
Laser pulse detection method and apparatus
[NASA-CASE-NPO-16030-1] 15 p2339 N84-25037
Optical fiber gyroscope with (3x3) directional coupler
[AD-D011152] 23 p3750 N84-33771

OPTICAL HETERODYNING
A CW-CO2 laser range finder using heterodyne detection and on-off amplitude modulation
[PHL-1983-34] 12 p1821 N84-21871
Design and calibration of a CW coherent laser radar
[FOA-C-30345-E1] 15 p2320 N84-24930
Receiver concepts for data transmission at 10 microns — between satellites 24 p3905 N84-34732

OPTICAL IMAGES
U IMAGES

OPTICAL MASER MODULATION
U LIGHT MODULATION

OPTICAL MASERS
U LASERS

OPTICAL MEASUREMENT
NT ASTRONOMICAL PHOTOMETRY
NT COLORIMETRY
NT ELECTROPHOTOMETRY
NT OPTOMETRY
NT PHOTOMETRY
NT POLARIMETRY
NT SPECTROPHOTOMETRY
NT STELLAR SPECTROPHOTOMETRY
NT ULTRAVIOLET PHOTOMETRY
Optical means of measuring particle-sea interactions in the Caribbean Sea and Gulf of Mexico
[AD-A131290] 02 p0257 N84-11685
OI 630.0 nm optical measurements of neutral winds, temperatures and airglow enhancements during the BIME program
[AD-A131695] 03 p0408 N84-12671
Optical probing of photoacoustic propagation for noncontact measurement of flows, temperatures and chemical compositions
[AD-A134129] 05 p0684 N84-14496
Advanced techniques of laser telemetry 06 p0906 N84-15883
Optical multiple sample vacuum integrating sphere
[NASA-CASE-GSC-12849-1] 06 p0917 N84-15960
High precision material study at near millimeter wavelengths
[AD-A133575] 06 p0918 N84-15966
Reflectance measurements, part 2 06 p0928 N84-16028
Rotary target V-block
[NASA-CASE-LAR-12007-3] 07 p1006 N84-16523
An optical analysis of the Farrand VCASS (Visually Coupled Airborne Systems Simulator) helmet-mounted display
[AD-A136649] 10 p1430 N84-19350
The AXAF technology program: The optical flats tests
[NASA-TM-82570] 10 p1578 N84-20341
Description of optical measurement techniques for the interaction of shock waves with objects
[PML-1983-10] 12 p1904 N84-22401
Nonlinear optical interfaces 14 p2233 N84-24396
Optically induced changes in the Faraday rotation spectra of the ferromagnetic semiconductor CdCr/sub 2/Se/sub 4 14 p2233 N84-24398
Multi-parameter universal route to chaos in a Fabry-Perot resonator 14 p2233 N84-24399
Optically-induced bistability in a nematic liquid crystal 14 p2234 N84-24401
Room-temperature thermal optical bistability in thin-film interference filters and dye-filled etalons 14 p2234 N84-24402
Self-defocusing and optical crosstalk in a bistable optical etalon 14 p2234 N84-24403
Optical measurements of droplet size distributions: Special considerations in the parameter definition for fuel atomizers 15 p2290 N84-24745
Optical measurements of soot size and number density in a complex flow, swirl-stabilized combustor 15 p2292 N84-24753
An integral optical method for determining stress intensity factors 15 p2311 N84-24866
Optical measurements of fluctuating temperatures in a supersonic turbulent flow using one- and two-photon, laser-induced fluorescence
[NASA-TM-85949] 15 p2336 N84-25020
Simultaneous observation of snowfall intensity and visibility in winter at Sapporo 15 p2354 N84-25125
Activities report of the Division of Quantum Metrology
[NPL-QU-AR-82] 16 p2494 N84-26002
Laser ballistic sensor development — projectile yawing motion
[AD-A140427] 17 p2671 N84-27026
Hot spot reflectance measurements applied to green biomass estimation and crop growth monitoring
[NLR-MP-83037-U] 17 p2721 N84-27323
Astronomical Microdensitometry Conference
[NASA-CP-2317] 18 p2839 N84-28020
Diagnosing a PDS microdensitometer 18 p2839 N84-28021
Performance testing of the high altitude observatory PDS microdensitometer 18 p2839 N84-28022
Photometric and positional accuracy of the PDS Bonn in view of astronomical requirements 18 p2839 N84-28023
Microdensitometer errors: Their effect on photometric data reduction 18 p2839 N84-28024
Positive-feedback photometric drift in the PDS 18 p2840 N84-28025
Characteristics of the MSFC, PDS microdensitometer 18 p2840 N84-28026
Improvements to the Photometric response and positional accuracy of the Yale PDS 2020G microdensitometer 18 p2840 N84-28033
Why use a microdensitometer other than a PDS? 18 p2841 N84-28038
Optical sensing devices
[AD-D011038] 19 p3105 N84-29725
Theoretical design and analysis of the layered synthetic microstructure optic for the dual path X-ray telescope
[NASA-CR-171133] 21 p3498 N84-32168
Mie scattering as a technique for the sizing of air bubbles
[AD-A142737] 21 p3498 N84-32170
Measurement of multimode optical fiber attenuation: An NBS special test service
[PB84-192202] 21 p3499 N84-32179
Portable reflectance spectrometer
[NASA-CASE-NPO-13556-1] 23 p3749 N84-33766
Optical flip-flop system
[AD-D011165] 23 p3825 N84-34261
Evaluation of optical data collection instrumentation in the desert environment
[AD-P003847] 24 p3939 N84-34934

OPTICAL MEASURING INSTRUMENTS
NT DIFFRACTOMETERS
NT ELECTROPHOTOMETERS
NT ELLIPSOMETERS
NT GEODIMETERS
NT HIGH DISPERSION SPECTROGRAPHS
NT INFRARED SPECTROMETERS
NT INFRARED SPECTROPHOTOMETERS
NT MICRODENSITOMETERS
NT MULTISPECTRAL BAND SCANNERS
NT NEPHELOMETERS
NT OCULOMETERS
NT OPTICAL SCANNERS
NT PHOTOMETERS
NT POLARIMETERS
NT REFLECTOMETERS
NT REFRACTOMETERS
NT SPECTROPHOTOMETERS
NT THEODOLITES
NT TRANSMISSOMETERS
NT ULTRAVIOLET SPECTROMETERS
Optical fiber tactile sensor
[NASA-CASE-NPO-15375-1] 02 p0293 N84-11921
Lightning mapper sensor design study
[NASA-CR-170909] 04 p0586 N84-13732
Structural deformation: A comprehensive survey of modern measurement methods
[NLR-TR-82021-U] 12 p1827 N84-21909
Fast Electrical and Optical Diagnostic Principles and Techniques: A NATO Advanced Study Institute
[AD-A138598] 13 p1993 N84-22936

Correlation between the meteorological parameters and the optical strength of atmospheric turbulence close to the ground. Part 3: Results
[BAE-BT-10771] 13 p2016 N84-23070
Fiber optic sensors
[NASA-TM-77404] 14 p2224 N84-24346
Laser cell analyzer 17 p2741 N84-27408
An optical technique for assessing the long-term accuracy of lateral extensometers
[NPL-DMA(A)-78] 19 p3026 N84-29190
Optical support Hartmann sensor optical simulation
[AD-A142525] 20 p3300 N84-30955
Front lighted optical tooling method and apparatus
[DE84-011108] 21 p3406 N84-31602
Point response functions for unfilled optical arrays
[AD-A143384] 22 p3657 N84-33183
Three-dimensional photochemical machining with lasers
[AD-A144656] 24 p3909 N84-34760
Atmospheric refraction error and its compensation for passive optical sensors
[AD-A144377] 24 p3963 N84-35098

OPTICAL MEMORY (DATA STORAGE)
Optical bistability: A novel approach to optical signal processing and communications
12 p1905 N84-22411
Bibliography of the literature on optical storage technology
[PB84-150184] 14 p2204 N84-24227
Two-dimensional signal processing and storage and theory and applications of electromagnetic measurements
[AD-A144266] 24 p3898 N84-34680

OPTICAL METHODS
U OPTICS

OPTICAL MICROSCOPES
On the optical assessment of the void content in composite materials
[RAE-TM-MAT/STR-1024] 12 p1789 N84-21664
Computer-assisted chromosome analysis
15 p2430 N84-25590

OPTICAL MODULATION
U LIGHT MODULATION

OPTICAL PATHS
Measurements of direct path and folded path optical scintillation using a corner cube reflector
[AD-A136485] 12 p1908 N84-22429
Theoretical design and analysis of the layered synthetic microstructure optic for the dual path X-ray telescope
[NASA-CR-171133] 21 p3498 N84-32168
Gated fiber optic transmission
[AD-D011197] 24 p3963 N84-35094

OPTICAL PROPERTIES
NT ABSORPTANCE
NT ABSORPTIVITY
NT BIREFRINGENCE
NT BRIGHTNESS
NT BRIGHTNESS DISTRIBUTION
NT COLOR
NT DICHROISM
NT GYROTROPISM
NT LUMINOSITY
NT OPACITY
NT OPTICAL BISTABILITY
NT OPTICAL REFLECTION
NT PHOSPHORESCENCE
NT PHOTOCONDUCTIVITY
NT PHOTOELECTRIC EFFECT
NT PHOTOELECTRIC EMISSION
NT PHOTOIONIZATION
NT PHOTOVOLTAIC EFFECT
NT RADIANCE
NT REFLECTANCE
NT REFRACTIVITY
NT SKY BRIGHTNESS
NT SOLAR GRANULATION
NT SPECTRAL REFLECTANCE
NT STELLAR LUMINOSITY
NT TRANSMISSIVITY
NT TRANSMITTANCE
NT TRANSPARENCE
NT TURBIDITY
NT WATER COLOR
Academician outlines accomplishments, new developments in optical physics
01 p0055 N84-10359
Optical properties of explosive-driven waves in noble gases
[DE83-015236] 01 p0082 N84-10536
Background information on the He(3) nuclear gyroscope
[AD-A130755] 01 p0084 N84-10545
Alignment telescope for Antares
[DE83-014179] 01 p0088 N84-10576
A review of optical data analysis related to the modelling of visible and optical infrared atmospheric properties
[AD-A131486] 01 p0106 N84-10687
Light-scattering studies of silica aerogels
[DE83-015412] 02 p0201 N84-11308
Application of laser anemometry in turbine engine research
[NASA-TM-83513] 02 p0222 N84-11456
Matrix approach for testing mirrors, part 1
[DE83-009398] 02 p0242 N84-11585
Characterization of infrared optical properties of transparent materials
[AD-A131554] 02 p0294 N84-11930
X-ray and optical studies of extragalactic X-ray emitters 02 p0308 N84-12024
Amorphous silicon-carbon films
[DE83-018077] 03 p0347 N84-12259
Photothermal displacement spectroscopy of surfaces and thin films
[DE83-015957] 03 p0350 N84-12279
New materials for organic photovoltaic cells
[DE83-016845] 03 p0404 N84-12645
Ultra low loss optical fiber cable assemblies, volume 2
[AD-A132008] 03 p0440 N84-12891
Ultra low loss optical fiber cable assemblies, volume 1
[AD-A132007] 03 p0440 N84-12892
Novel method for the study of optical properties of surfaces
[DE83-012899] 03 p0441 N84-12895
The growth and measurement of single-crystal doped GGG (Gd3-xCaxGa5-xZrx012)
[AD-A131875] 03 p0452 N84-12971
Optical properties and correlation energy of defects in a-Ge:H
[DE83-016697] 03 p0455 N84-12993
Aethalometer: An instrument for the real-time measurement of optical absorption by aerosol particles
[DE84-000400] 04 p0538 N84-13538
Evaluation of selective solar-absorber surfaces, phase 2
[DE84-000067] 04 p0559 N84-13685
Optical properties of the marine aerosol as predicted by a BASIC version of the Navy aerosol model
[AD-A132411] 04 p0604 N84-13966
A very large array 1411 MHz radio survey: Properties of complete samples of radio and optically selected QSO candidates in a high galactic-latitude field
04 p0618 N84-14076
Flight evaluation of a linear optical displacement transducer
[AD-A132638] 05 p0630 N84-14141
Studies of the electronic properties of two-dimensionally confined carriers in MIS (Metal-Insulator-Semiconductor) Inversion/Accumulation layers, heterojunctions and quantum wells
[AD-A134094] 05 p0752 N84-14935
An X-ray and optical survey of s-type Markarian galaxies 05 p0762 N84-14996
The unique surface properties of gold
06 p0815 N84-15310
Subpicosecond-relaxation studies using tunable-laser-induced-grating techniques
06 p0848 N84-15531
Coherent effects in laser spectroscopy
06 p0849 N84-15533
Passive remote sensing of ocean optical propagation parameters 06 p0872 N84-15673
Optical flux and polarization spectra compared with radio maps of radio galaxies 06 p0938 N84-16093
LANDSAT-D investigations in snow hydrology
[E84-10074] 07 p1021 N84-16621
Optical properties of metals
[AD-A134285] 07 p1075 N84-16987
Optical studies of dynamical process in disordered materials
[DE84-002048] 07 p1083 N84-17042
Photoemission spectroscopy and the optical properties of surface
[PB84-100445] 08 p1127 N84-17331
Chinese journal of infrared research (Selected articles)
[AD-A135504] 08 p1232 N84-18051
Laboratory degradation of Kapton in a low energy oxygen ion beam
[NASA-TM-83530] 09 p1272 N84-18310
Evaluation of NRL glass for fiber optics, phase 2
[AD-A136017] 09 p1390 N84-19076
Consequences of a chromospheric temperature gradient on the width of H Alpha in late-type giants
[NASA-CR-173359] 09 p1415 N84-19260
Effects of combined ultraviolet and oxygen plasma environment on spacecraft thermal control materials — space shuttle payloads 10 p1446 N84-19449
The AXAF technology program: The optical fl.sts tests
[NASA-TM-82570] 10 p1578 N84-20341
Preparation and properties of polyurethane and polyurethaneurea elastomers from methylene bis(4-cyclohexylisocyanate)
[AD-A137645] 11 p1637 N84-20704
Determining optical characteristics of stratospheric aerosol by multifrequency laser sounding method
11 p1670 N84-20900
Optical and mechanical properties of single mode cables at 1300 nm 11 p1726 N84-21258
Development of short-distance optical transmission cord 11 p1727 N84-21268
Thermal properties of loose tube secondary coated optical fibres experimentally discussed by a relative light pulse delay technique 11 p1727 N84-21269
Photometric properties of Europa and the icy satellites of Saturn 11 p1756 N84-21465
Simultaneous multipoint measurements of density gradients and temperature in a flame
[DE84-006832] 12 p1794 N84-21697
A technique for increasing the optical strength of single-crystal NaCl and KCl through temperature cycling
[AD-A138280] 12 p1820 N84-21867
Measurement and modeling of the optical scattering properties of crop canopies 12 p1833 N84-21948
Investigations of micro-turbulence in the bottom of the boundary layer
[AD-A138524] 12 p1861 N84-22123
Integrated optical signal processing with magnetostatic waves 12 p1907 N84-22420
Measuring roughness of ultrasmooth surfaces by reflectometric method 13 p1974 N84-22807
Review of free electron laser theory and experiments
[DE84-007232] 13 p1998 N84-22954
Application for surveying technology for the alignment of large optical systems
[DE84-006005] 14 p2225 N84-24353
Mirrorless intrinsic optical bistability due to the local field correction in the Maxwell-Bloch formulation
14 p2233 N84-24397
Optically induced changes in the Faraday rotation spectra of the ferromagnetic semiconductor CdCr/sub 2/Se/sub 4 14 p2233 N84-24398
Multi-parameter universal route to chaos in a Fabry-Perot resonator 14 p2233 N84-24399
Bistable operation of two semiconductor lasers in an external cavity: Rate-equation analysis
14 p2233 N84-24400
Optically-induced bistability in a nematic liquid crystal
14 p2234 N84-24401
Room-temperature thermal optical bistability in thin-film interference filters and dye-filled etalons
14 p2234 N84-24402
Routes to optical turbulence in a dispersive ring bistable cavity containing saturable nonlinearities
14 p2234 N84-24404
Optical bistability in semiconductors
14 p2237 N84-24428
Absorptive optical bistability with laser amplitude fluctuations 14 p2238 N84-24430
Precise measurements of bistability in a CO/sub 2 laser with intracavity saturable absorber
14 p2238 N84-24431
Periodic window, period doubling, and chaos in a liquid crystal bistable optical device 14 p2238 N84-24432
Effects of the radial variation of the electric field on some instabilities in lasers and in optical bistability
14 p2238 N84-24433
Theory of optical bistability in collinear degenerate four-wave mixing 14 p2238 N84-24434
A saturable interferometer theory of absorptive optical bistability 14 p2238 N84-24435
Bistability in optical waveguides
14 p2239 N84-24436
The NMR laser: A nonlinear solid state system showing chaos 14 p2239 N84-24440
Observation of optical hysteresis in an all-optical passive ring cavity 14 p2240 N84-24447
Light-induced nonreciprocity: Directional optical bistability; spectroscopy of induced anisotropy; nonlinear Sagnac effect 14 p2241 N84-24452
Investigation of nonlinear optical properties of semiconductors
[AD-A139227] 14 p2242 N84-24459
Thermal control coatings experiment (A0138-6)
15 p2273 N84-24647
Thermal control surface experiment (S0069)
15 p2273 N84-24649
Ion-beam-textured and coated surfaces experiment (S1003) 15 p2273 N84-24650
Vacuum-deposited optical coatings experiment (A0138-4) 15 p2278 N84-24681
Droplet size distribution and liquid volume concentration in a water spray: Predictions and measurements
15 p2291 N84-24748
Soot formation in diffusion flames
15 p2291 N84-24750

Diffraction of a line sink field
[FOA-C-30353-E] 15 p2320 N84-24931
Characteristics of the Lower Atmosphere Influencing Radio Wave Propagation
[AGARD-CP-346] 15 p2322 N84-24943
Low Temperature Science. Series A: Physical Science
[ISSN-0439-3538] 15 p2352 N84-25112
Research and development on the encapsulation of solar cells with improved potting and cover materials
[BMFT-FB-T-83-309] 15 p2363 N84-25175
An algorithm for the estimation of limiting recognition range of image intensifier systems
[SRDE-7100] 15 p2389 N84-25333
Transport properties of amorphous silicon-germanium alloy films. Volume 2: Appendices
[DE84-006879] 15 p2414 N84-25495
The black-anodizing of aluminum with inorganic dyes
[ESA-PSS-01-703-ISSUE-1] 16 p2465 N84-25798
Design of a CO2 laser transceiver package for space-to-space optical communication
[BLEV-R-84.225] 16 p2482 N84-25913
Automatic, self-nulling, spectral scanning ellipsometer: Software for the LSI-11 data acquisition system
[LBL-15525] 16 p2543 N84-26320
Optical and human performance evaluation of HUD (Head-Up Display) systems design
[AD-A140601] 17 p2588 N84-26587
Overview of HUD (Head-Up Display) optical designs
[AD-P003157] 17 p2588 N84-26588
Optical interactions of aircraft windscreens and HUDs (Head-Up Displays) producing diplopia
[AD-P003159] 17 p2588 N84-26590
Optical constant determination of thin films condensed on transmitting and reflecting substrates
[AD-A140845] 17 p2768 N84-27578
Photographic characteristics of polymer composite including complex with charge transfer
18 p2826 N84-27944
Tunable optical sources
[AD-A140984] 18 p2845 N84-28068
Polymeric web lens evaluation
[DE84-010108] 19 p3000 N84-29013
Technology development for tapered-wiggler free-electron lasers
[AD-A142319] 19 p3029 N84-29213
Environmental degradation of solar optical materials, volume 2
[DE84-006505] 19 p3051 N84-29362
The optical spectra of aerosols
[AD-A141571] 19 p3104 N84-29719
Photothermal spectroscopy of weakly absorbing samples using a thermal wave phase shifter
[AD-A142056] 19 p3104 N84-29721
High resolution cathodoluminescence of yellow and waterclear CVD polycrystalline ZnS
[AD-A141100] 19 p3110 N84-29759
Preparation of device quality strained-layer superlattices
[DE84-009488] 19 p3112 N84-29776
Theory of the electronic structure and optical properties of organic solids: Exciton effects
[AD-A142544] 20 p3149 N84-29993
Capillary separations with calorimetric absorbance detection
[DE84-012466] 20 p3195 N84-30291
Performance tests of the Solar Steam, Incorporated, 9-m deep-dish solar concentrating collector
[DE84-000079] 20 p3235 N84-30535
Intelligent optical design program
[DE84-010071] 20 p3279 N84-30613
Impact of laser radiation on optical properties of polymer liquid crystal in phase transition range
20 p3286 N84-30868
Optical second-harmonic generation for surface studies
[DE84-010718] 20 p3300 N84-30958
Improvement in quality of silicon-based amorphous films 21 p3477 N84-32041
Far infrared optical properties of WbSe3
[DE84-009223] 21 p3498 N84-32173
Microstructural stability of copper electroplate
[DE84-010070] 21 p3498 N84-32174
Two probable optical flashes from gamma-ray bursters
[NASA-TM-86126] 21 p3526 N84-32337
Method of measuring optical properties of a transparency
[AD-D011117] 22 p3658 N84-33188
Simulation of the reaction of optical systems in the manufacturing process
[BMFT-FB-T-84-128] 23 p3728 N84-33622
Three-dimensional photochemical machining with lasers
[AD-A144096] 23 p3755 N84-33800
Spatial structures of optical parameters in the California current as measured with the Nimbus-7 coastal zone color scanner
[AD-A144070] 23 p3803 N84-34115
Characterization of infrared optical properties of transparent materials
[AD-A143968] 23 p3825 N84-34257
Broadband guided-wave optical frequency translator using an electro-optical Bragg array
[AD-D011164] 23 p3825 N84-34260
Optical and electrical characterization of multiply doped silicon: A study of the Si:(In, Al) system
[AD-A143820] 23 p3830 N84-34294
Optical and other property changes of M-50 bearing steel surfaces for different lubricants and additive prior to scuffing
[NASA-TM-83746] 24 p3888 N84-34820
Extended abstracts of the Proceedings of the 2nd International Symposium on Halide Glasses
[AD-A144269] 24 p3888 N84-34824
The optical characteristics of lightning
24 p3927 N84-34858
Design study of ion anti-contamination system
[AD-A144197] 24 p3963 N84-35097
Optical properties of amorphous silicon: Some problem areas
[DE84-701201] 24 p3964 N84-35102
Rotational modulation of spots and plages on RSCVn stars 24 p3978 N84-35196

OPTICAL PUMPING
NT LASER PUMPING
Nuclear moment alignment, relaxation and detection mechanisms
[AD-A131546] 02 p0223 N84-11464
Experimental study of dissociative attachment in optically-pumped lithium molecules
[AD-A131601] 02 p0289 N84-11894
An intense excitation source for high power (Blue-green) laser
[AD-A135873] 09 p1322 N84-18637
Optically-induced bistability in a nematic liquid crystal
14 p2234 N84-24401
Critical slowing down and magnetically-induced self-pulsing in a sodium-filled Fabry-Perot resonator
14 p2240 N84-24449
Optical bistability and hysteresis under phase conjugation in CdS crystal 14 p2240 N84-24450
Study of VUV generation by coherent resonant frequency mixing in metal vapors
[AD-A140800] 17 p2663 N84-26989
Off-axis coherently pumped laser
[NASA-CASE-GSC-12592-1] 18 p2845 N84-28065
Detecting optical polarization of nuclei in semiconductors with super-conducting quantum interferometer
20 p3286 N84-30865
Optically pumped polarized alkali atomic beams and targets
[DE84-012389] 21 p3495 N84-32147

OPTICAL RADAR
Laser remote sensing of atmospheric pollutants
[AD-A130259] 01 p0103 N84-10670
Atmospheric infrared backscatter:: Summary of present knowledge and recommendations for future work
[PB83-222281] 01 p0106 N84-10690
LIDAR (light detection and ranging) measurements for astronomical refraction. Feasibility and system definition study
[AD-A130740] 01 p0147 N84-10966
Lidar studies of the alkali metals
[INPE-2892-PRE/411] 02 p0193 N84-11252
Design and implementation of a preprocessing system for a sodium lidar
[NASA-CR-174595] 03 p0378 N84-12462
The Istituto di Ricerca sulle Onde Elettromagnetiche (IROE)-lidar remote sensing of the environment
03 p0396 N84-12590
Laser radar analyses
[AD-A133295] 06 p0850 N84-15540
Lidar remote sensing of internal waves and optical properties 06 p0871 N84-15670
Data reduction programs for a laser radar system
[NASA-CR-173152] 07 p0992 N84-16490
Results of a slant range visibility field test in Munich-Reim
[DFVLR-MITT-83-09] 06 p1102 N84-17169
Doppler lidar signal and turbulence study
[NASA-CR-170976] 06 p1163 N84-17574
Pulsed heterodyne CO2 laser/scanner system. Volume 1: Assembly report
[AD-A135059] 08 p1164 N84-17577
Pulsed heterodyne CO2 laser/scanner system. Volume 2: Operating instructions
[AD-A135060] 08 p1164 N84-17578
Pulse heterodyne equipment for measurements of range and velocity of moving targets — pulse radar
[DFVLR-FB-83-18] 10 p1483 N84-19696
Investigation of the simultaneous application of Combined Optical Adaptive Techniques (COAT) and angle tracking
[DFVLR-FB-83-17] 10 p1579 N84-20347
Shot noise limited detection of OH using the technique of laser induced fluorescence
[NASA-CR-175433] 11 p1662 N84-20844
NASA/MSFC ground-based Doppler lidar nocturnal boundary layer experiment (Noblex)
[NASA-CR-3778] 11 p1731 N84-21293
Tidal oscillations in the atmospheric sodium layer
[INPE-3006-PRE/454] 12 p1846 N84-22033
Observing system simulation experiments related to space-borne Lidar wind profiling. Part 1: Forecast impacts of highly idealized observing systems
12 p1850 N84-22052
Observing system simulation experiments related to space-borne Lidar wind profiling. Part 2: Sensitivity to atmospheric and instrumental influences
12 p1850 N84-22053
Development and operation of a real-time data acquisition system for the NASA, Langley Research Center Differential Absorption Lidar
[NASA-CR-173397] 12 p1918 N84-22495
Airborne lidar for oceanography and hydrology (FLOH)
[ESA-TT-799] 13 p1996 N84-22955
Coherent laser radar remote sensing
[AD-A139448] 14 p2151 N84-23685
Design and calibration of a CW coherent laser radar
[FOA-C-30345-E1] 15 p2320 N84-24930
Helium-neon lasers for remote measurements of natural gas leaks 15 p2430 N84-25595
Basic elements of laser radar
[INPE-3123-MD/025] 16 p2497 N84-26021
Remote measurements of tropospheric aerosol scattering properties by an airborne high spectral resolution lidar 16 p2520 N84-26179
Applications of laser for climatology and atmospheric research
[BLEV-R-65.169-5] 16 p2529 N84-26237
Fundamentals of spaceborne remote sensing: Applications of lasers, volume 1
16 p2529 N84-26238
Definition and design of spaceborne lidar instruments
16 p2529 N84-26240
Applications of airborne remote sensing in atmospheric sciences research 17 p2715 N84-27286
Intensity fluctuations during specular reflection of light beams in turbulent atmosphere
18 p2823 N84-27922
Aerosol backscatter lidar calibration and data interpretation
[NASA-CR-173736] 18 p2845 N84-28067
Identification of aerosol composition from multi-wavelength lidar measurements
[NASA-CR-173445] 18 p2877 N84-28266
An information-theoretic approach to target estimation of a laser radar tracking system
[AD-A142247] 19 p3008 N84-29067
Sensitivity of a lidar inversion algorithm to parameters relating atmospheric backscatter and extinction
[AD-A141565] 19 p3054 N84-29378
A radiative transfer model for remote sensing of laser induced fluorescence of phytoplankton in non-homogeneous turbid water
[NASA-CR-173777] 19 p3063 N84-29432
Lidar observations and modeling of atmospheric mixed layer entrainment processes 21 p3437 N84-31807
Double scattering background in a CW lidar
21 p3483 N84-32072
Practical problems with CO2 laser radar tests
[RAE-TRANS-2113] 22 p3600 N84-32804
Measurement of range-resolved water vapor concentration by coherent CO2 differential absorption lidar
[AD-A143594] 23 p3753 N84-33791
Hydrogen chloride measurements with a Differential Absorption and Scattering (DAS) lidar in the marine atmosphere 23 p3779 N84-33965
State-of-the art Differential Absorption and Scattering (DAS) lidar for SO2 and NO2 23 p3780 N84-33966
Lidar observations of the plumes of incineration ships
23 p3780 N84-33967
Quantitative determination of aerosol concentrations by lidar with respect to various relative humidities
23 p3780 N84-33968
Spaceborne lidar applications to meteorology and environmental studies 24 p3904 N84-34725
Performance capabilities of laser ranging sensors — space applications 24 p3904 N84-34726
Technologies for intersatellite optical communications
24 p3904 N84-34727
Spaceborne lidar investigations of the atmosphere
24 p3907 N84-34743

An ER-2 aircraft airborne lidar as part of the development program of a spaceborne system: A potential NASA/CNES cooperative project 24 p3907 N84-34744
Design of a spaceborne lidar for measurements from operational satellites 24 p3907 N84-34745
Mapping of Arctic haze using airborne lidar 24 p3907 N84-34746
Laser remote sensing at IROE 24 p3907 N84-34747
Differential absorption lidar in space for temperature and humidity profiles in the atmosphere 24 p3907 N84-34748
Wind measurement with coherent laser radar at 10 microns 24 p3907 N84-34750
NASA/MSFC FY-84 Atmospheric Processes Research Review [NASA-CP-2329] 24 p3923 N84-34829
Overview of global scale research Doppler lidar activities 24 p3924 N84-34836
Atmospheric backscatter research 24 p3924 N84-34837
Atmospheric effects on coherent lidar systems 24 p3924 N84-34839
Overview of mesoscale research Doppler lidar activities 24 p3926 N84-34863
Analysis of lidar, radar and satellite measurements on severe thunderstorms and their environments 24 p3926 N84-34864
Evaluation of airborne lidar wind measurements 24 p3926 N84-34865
Doppler lidar results from the San Gorgonio Pass experiments 24 p3926 N84-34866
Analysis of MSFC ground-based Doppler lidar data 24 p3929 N84-34867
Analysis of Doppler lidar wind measurements 24 p3929 N84-34868

OPTICAL RANGE FINDERS
NT LASER RANGE FINDERS

OPTICAL REFLECTION
Retroreflector YO3: Study of the optical properties of protected mirrors — Earth-Moon telemetry [ESA-TT-789] 03 p0443 N84-12907
Resonant Frustrated Total Reflection (FTR) approach to optical bistability in semiconductors 14 p2234 N84-24405
Sun/Moon capture evaluation [AD-P003160] 17 p2588 N84-26591
Apparatus for and method of compensating dynamic unbalance [NASA-CASE-GSC-12550-1] 18 p2848 N84-28082
Fiber optic light guides based on polymer coated multicomponent glasses 21 p3487 N84-32100

OPTICAL RELAY SYSTEMS
Investigation of the effects of long-duration exposure on active optical system components (S0050) 15 p2279 N84-24687

OPTICAL RESONANCE
Resonant Frustrated Total Reflection (FTR) approach to optical bistability in semiconductors 14 p2234 N84-24405
Theory of resonance-enhanced optical nonlinearities in semiconductors 14 p2234 N84-24407
Resonance absorption of narrow-band laser radiation by atmospheric gases 20 p3225 N84-30493

OPTICAL RESONATORS
Theory of pulse propagation and coherence in free electron [AD-A133334] 06 p0850 N84-15544
Phase conjugate optical resonator [AD-A136071] 09 p1390 N84-19077
Reflectivity measurements of laser gyro mirrors [DFVLR-FB-83-35] 12 p1909 N84-22434
Optical bistability with two-level atoms 14 p2231 N84-24383
The physical mechanism of optical instabilities 14 p2232 N84-24389
Multi-parameter universal route to chaos in a Fabry-Perot resonator 14 p2233 N84-24390
Critical slowing-down in microwave absorptive bistability 14 p2237 N84-24429
Locking of diode gain modules using optical conjugation techniques [AD-A141234] 18 p2846 N84-28075
Quantum optics and photonics 22 p3682 N84-33344

OPTICAL SCANNERS
NT MULTISPECTRAL BAND SCANNERS
Multiangular scanning absorption techniques for three dimensional combustion diagnostics [AD-A133611] 05 p0648 N84-14263
Laser velocimeter optical traverse scheme: An investigation of a proposed optical scanning technique for Arnold Engineering and Development Center's four-foot transonic wind tunnel [AD-A138166] 12 p1818 N84-21853
Optical scanner [NASA-CASE-GSC-12897-1] 15 p2407 N84-25450
Principal components as a method for atmospherically correcting coastal zone color scanner data [AD-P003124] 16 p2533 N84-26265
Oculometric indices of simulator and aircraft motion [NASA-CR-3801] 16 p2537 N84-26291
Astronomical Microdensitometry Conference [NASA-CP-2317] 18 p2839 N84-28020
Positive-feedback photometric drift in the PDS 18 p2840 N84-28025
Application of FASTRAK by Skandinavisk Autodigitaliseringe AB (SADAB) cartographic service 20 p3226 N84-30498
Development of hardware and software for automatic optical surface inspection with laser scanners [BMFT-FB-T-84-111] 23 p3755 N84-33805
Apparatus for the determination of ion drift in MIS structures [FOA-C-30360-E1] 23 p3831 N84-34301
Circular-scan photochron streak camera for spaceborne laser ranging applications 24 p3906 N84-34741

OPTICAL SENSORS
U OPTICAL MEASURING INSTRUMENTS

OPTICAL SIGNALS
U OPTICAL COMMUNICATION

OPTICAL SLANT RANGE
Foundations of a numerical model of slant visibility [ESA-TT-757] 16 p2557 N84-26403

OPTICAL SPECTRUM
U LIGHT (VISIBLE RADIATION)
U SPECTRA

OPTICAL THICKNESS
Satellite measurements of marine aerosols 06 p0871 N84-15671
Optical thickness as related to pollutant episodes and the concentration of visibility degrading pollutants [NASA-CR-175203] 10 p1531 N84-20028
Photoionization models of the MgII and CIV selected clouds observed in absorption in QSO spectra 22 p3678 N84-33314
Estimation of albedo and optical thickness with the radiative transfer method — microwave remote sensing 23 p3778 N84-33952

OPTICAL TRACKING
Incorporation of a PROM spatial light modulator into a system for automatic target recognition and tracking — Pockels Readout Optical Modulator (PROM) [BAE-BT-12841] 13 p2042 N84-23250
An information-theoretic approach to target estimation of a laser radar tracking system [AD-A142247] 19 p3008 N84-29067
Target for optically activated seekers and trackers [AD-D011059] 22 p3655 N84-33171
Longwall shearer tracking system [NASA-CASE-MFS-25717-1] 23 p3749 N84-33768
Gaze control during horizontal and vertical target tracking [AD-A144484] 24 p3938 N84-34926

OPTICAL TRANSFER FUNCTION
Some characteristics of radiation field in medium with fluctuating optical parameters 17 p2699 N84-27192

OPTICAL WAVEGUIDES
Optical waveguide gas sensors [AD-A130629] 01 p0148 N84-10969
Thin-film guided-wave devices for integrated/fiber optic signal processing and communications [AD-A129582] 01 p0152 N84-11001
Parametric study of optically pumped far-infrared waveguide lasers, part 1. Theory and experiment of folded Fabry-Perot quasi-optical ring resonator diplexer 05 p0687 N84-14515
Transversely anisotropic optical fiber: Variational analysis of a nonstandard eigen problem [REPT-S-133] 09 p1390 N84-19080
Asymptotic analysis of weakly guiding anisotropic optical fibers [REPT-S-136] 09 p1390 N84-19081
Fabrication and evaluation of chirped grating lenses in lithium niobate waveguides [AD-A137103] 10 p1579 N84-20345
Hybrid integrated optic modules for real-time signal processing 12 p1905 N84-22412
Fiber optic sensors [NASA-TM-77404] 14 p2224 N84-24346
A study of the mechanics of radiation damage in fiber optical waveguides [AD-A139590] 14 p2225 N84-24352
Effect of driving laser fluctuations on optical bistability 14 p2235 N84-24413
Distributed feedback bistability in channel waveguides 14 p2236 N84-24417
Bistability in optical waveguides 14 p2239 N84-24436
Utilization of light wave scales and opto-electronic transformers for measuring distortion and expansion [ISD-309] 16 p2557 N84-26402
Noise immunity of optical lines with imprecise levels of signal and noise 17 p2634 N84-26852
Search for extended-lifetime optically excited laser media [DE84-009795] 18 p2847 N84-28076
Analysis of noise temperature of optical waveguide 21 p3377 N84-31434
Measurement of multimode optical fiber attenuation: An NBS special test service [PB84-192202] 21 p3499 N84-32179
Optics and quantum electronics 22 p3682 N84-33343
Gated fiber optic transmission [AD-D011197] 24 p3963 N84-35094
Analytic models for radiation induced loss in optical fibers I [AD-A144630] 24 p3964 N84-35100

OPTICS
Normalized emittance of SITEX negative ion source [DE84-003285] 07 p1072 N84-16967
Fiber-optics symposium, scientific agreement describe 12 p1897 N84-22358
USSR report: Physics and mathematics [JPRS-UPM-84-001] 20 p3285 N84-30862
Short wavelength optics for future free electron lasers [DE84-012316] 21 p3410 N84-31626
USSR report: Physics and mathematics [JPRS-UPM-84-005] 21 p3484 N84-32081
Focusers of obliquely incident laser radiation 21 p3487 N84-32099

OPTIMAL CONTROL
NT TIME OPTIMAL CONTROL
Direct digital design via pole placement techniques 01 p0015 N84-10099
Optimal control of robotic manipulators 01 p0127 N84-10633
Computational methods for static and dynamic systems and engineering applications [PB83-227314] 01 p0135 N84-10884
Modified quasilinearization algorithm for optimal control problems with nondifferential constraints and general boundary conditions. Part 1: Theory [PB83-226944] 01 p0135 N84-10885
Modified quasilinearization algorithm for optimal control problems with nondifferential constraints and general boundary conditions. Part 2: Examples [PB83-226936] 01 p0135 N84-10886
Optimal control of Markov processes [AD-A129296] 01 p0136 N84-10894
Fault tolerant optimal control [NASA-CR-174471] 02 p0278 N84-11822
A multiple shooting algorithm for direct solution of optimal control problems [PREPRINT-589] 02 p0279 N84-11827
Mean-square optimal, full-order compensation of structural systems with uncertain parameters [AD-A131276] 02 p0281 N84-11841
Solution of the 2-point boundary value problems of optimal spacecraft rotational maneuvers 04 p0588 N84-13870
Study of the optimal control problem solving in the Bolza form by the finite element method [INPE-2750-PRE/326] 04 p0588 N84-13884
Dynamic control of session input rates in communication networks [AD-A133572] 06 p0825 N84-15379
On-board near-optimal climb-dash energy management 07 p0943 N84-16116
Optimal symmetric flight with an intermediate vehicle model [NASA-CR-173181] 07 p0951 N84-16167
Suboptimal LQ control problem using reconstructed state feedback control law 07 p0962 N84-16364
The infinite horizon optimal control problem on manifolds [MC-BW-181/83] 07 p1058 N84-16851
Asymmetric Wiener control [AD-A134531] 07 p1067 N84-16926
Dynamics and control of forward swept wing aircraft [NASA-CR-175389] 08 p1103 N84-17172
Optimal electric drive control to suppress jerking [BLL-M-35391-(5828.4)] 08 p1165 N84-17589
Asynchronous discrete control of continuous processes [AD-A135257] 08 p1215 N84-17930
Linear and nonlinear filtering and related inverse scattering problems [AD-A135175] 08 p1219 N84-17954
Advanced aircraft electrical system control technology demonstrator. Phase 1: Requirements analysis & preliminary design. Phase 2: Detailed design [AD-A136758] 10 p1428 N84-19337

On optimality OLF control — open loop feedback (OLF)
[OUEL-1493/83] 10 p1567 N84-20263
On equivalence between optimal stochastic control and open-loop feedback control 10 p1567 N84-20264
About equivalence between closed-loop and open-loop feedback controls 10 p1567 N84-20265
Optimal control and filter gains for the stationary continuous or discrete time LQG problem - A FORTRAN program
[AD-A137667] 11 p1713 N84-21168
Stationary stochastic asymmetric control
[AD-A137565] 11 p1717 N84-21201
Differential games, optimal control and directional derivatives of viscosity solutions of Bellman's and Isaacs' equations
[AD-A137939] 11 p1718 N84-21209
An introduction to the technique of singular perturbations applied to performance optimization problems in atmospheric flight mechanics
[VTH-LR-374] 12 p1769 N84-21540
An optimal control approach to pilot/vehicle analysis and Neal-Smith criteria
[NASA-CR-170416] 12 p1771 N84-21551
Robust flight controllers
[AD-A138425] 12 p1773 N84-21560
Robust multivariable controller design via implicit model-following methods
[AD-A138309] 12 p1882 N84-22268
Optimal control model applications and field measurements with respect to car driving
[IZF-1983-18] 12 p1892 N84-22324
Time optimal digital control of multi-unit paper web dynamics 13 p2002 N84-22991
Parameterization and approximation methods in feedback theory with applications in high gain, fast sampling and cheap optimal control
[RR-241] 13 p2031 N84-23167
Decoupled control analysis of a large flexible space antenna with linear quadratic regulator comparisons
[NASA-TP-2293] 14 p2115 N84-23675
On the control of a linear stochastic system with finite horizon
[AD-P002949] 14 p2198 N84-24189
Optimal reduced order controllers for discrete-time linear systems with partial state estimation
[AD-P002952] 14 p2199 N84-24192
The linear quadratic optimal control problem for infinite dimensional systems with unbounded input and output operators
[AD-A139333] 14 p2214 N84-24296
Optimal cooperative control synthesis applied to a control-configured aircraft
[NASA-CR-170411] 15 p2264 N84-24593
Robustness quantification for nonlinear sampled-data systems with dynamic multiplicative perturbations 16 p2476 N84-25871
Design and analysis of a longitudinal ride comfort control system for a Short Take-Off and Landing (STOL) aircraft
[UTIAS-TN-254] 17 p2748 N84-27442
Ill-posed problems in optimal control systems and a method to solve them 17 p2756 N84-27497
Optimal control of partially observable stochastic systems with an exponential-of-integral performance index
[MC-BW-194/83] 17 p2761 N84-27534
Regions of attraction and ultimate boundedness for linear quadratic regulators with nonlinearities
[NASA-TP-2322] 18 p2923 N84-28538
Integrated Application of Active Controls (IAAC) technology to an advanced subsonic transport project: Current and advanced act control system definition study, volume 1
[NASA-CR-165631-VOL-1] 19 p2967 N84-28802
An optimal control problem in the study of liver kinetics
[CTH-MATH-1984-10] 19 p3064 N84-29439
Research in the areas of stochastic control under partial observations, nonlinear filtering, large deviations for nearly deterministic processes, and transition and invariant densities for nearly deterministic diffusions
[AD-A142191] 19 p3115 N84-29791
Modeling the human operator's supervising behavior — industrial plants 20 p3264 N84-30707
State estimation and control of conditionally linear systems
[AD-A142455] 20 p3281 N84-30826
Asymmetric Weiner-Poisson control
[AD-A142452] 20 p3283 N84-30848
Adaptive multibeam antenna array 21 p3377 N84-31430
Optimum control of electric motor drives for industrial robots
[DE84-012878] 21 p3395 N84-31543
Directional convexity and finite optimality conditions
[AD-A141698] 21 p3471 N84-32000
Optimal digital control of a bank-to-turn missile
[AD-A144043] 23 p3699 N84-33447
Optimal performance in a step motor controlled robot 23 p3735 N84-33864
The problem of determining the optimum policy for maintaining systems with spare machines and a number of variable servers
[INPE-3132-PRE/523] 23 p3833 N84-34312
An optimum policy for a system of maintenance with control by a repair time distribution
[INPE-3131-PRE/522] 23 p3833 N84-34313
Interactive implementation of the optimal systems control design program (OPTSYSX) on the IBM 3033
[AD-A144159] 24 p3948 N84-35000
Investigation of multiple controller system efficiency as applied to the CSDL model
[AD-A144597] 24 p3949 N84-35002

OPTIMIZATION
NT FLIGHT OPTIMIZATION
NT OPTIMAL CONTROL
NT TIME OPTIMAL CONTROL
NT TRAJECTORY OPTIMIZATION

Optimization of aircraft seat cushion fire blocking layers
[NASA-TM-85430] 01 p0006 N84-10037
Optimizing coagulation-adsorption for haloform and TOC (Total Organic Carbon) reduction
[PB83-210757] 01 p0058 N84-10378
Generalized list detection for coded MFSK/FH signaling on ading and jamming channels
[AD-A130199] 01 p0063 N84-10414
Optimal constrained representation and filtering of signals
[AD-A129157] 01 p0069 N84-10453
Tornado Wind Energy Conversion System (TWECS) evaluation program
[PB83-227207] 01 p0103 N84-10669
YIDOYU-1: Computer system for optimal wing design 01 p0118 N84-10788
Composite laminate weight optimization on the Timex-Sinclair 1000 microcomputer
[AD-A130214] 01 p0121 N84-10789
Dynamic programming algorithms and analyses for nonserial networks, part 1
[AD-A130885] 01 p0122 N84-10795
Optimization of finite element grids using interpolation error 01 p0128 N84-10835
A fast heuristic based on spacefilling curves for minimum-weight matching in the plane
[AD-A129857] 01 p0129 N84-10846
A collection of A-optimal designs for control-test treatment comparisons, part 1
[AD-A129322] 01 p0132 N84-10868
Research initiation: Aggregated hierarchical control
[PB83-226761] 01 p0135 N84-10887
Optimal sampling in selection problems
[AD-A130248] 01 p0136 N84-10891
Optimization of next-event estimation probability in Monte Carlo shielding calculations
[DE83-012643] 01 p0137 N84-10900
Speeds: A new technique for the analysis and optimization of queueing networks
[PB83-226951] 01 p0137 N84-10901
Aeroelasticity and optimization at the design stage 02 p0172 N84-11131
Aeroelastic considerations in preliminary design of a military combat aircraft 02 p0172 N84-11132
Preliminary design of aircraft using structural optimization methods 02 p0172 N84-11133
A flutter optimization program for complete aircraft structural design 02 p0172 N84-11134
Fast flutter clearance by parameter variation 02 p0172 N84-11135
A contribution to the calculation of measurement uncertainty and optimization of measuring strategies in coordinate measurement — production measurement technique
[PTB-ME-39] 02 p0206 N84-11345
A nested-decomposition approach for solving staircase linear programs
[DE83-3013560] 02 p0274 N84-11792
The use of singular value gradients and optimization techniques to design robust controllers for multiloop systems
[NASA-TM-85720] 02 p0277 N84-11815
Quasi-Newton methods using multiple secant equations
[AD-A131444] 02 p0282 N84-11847
Subsonic/Transonic Aerodynamic Interference for Aircraft: Introductory remarks 03 p0317 N84-12073
Application of computational procedures in aerodynamic design 03 p0318 N84-12078
Optimization of engine power offtake by secondary power system design 03 p0335 N84-12177
Optimization of ultrasonic flaw detection in railroad rail
[PB83-236919] 03 p0386 N84-12518
User's guide for SOL/NPSOL: A FORTRAN package for nonlinear programming
[DE83-016903] 03 p0421 N84-12751
User's guide for SOL/QPSOL: A FORTRAN package for quadratic programming
[DE83-016990] 03 p0421 N84-12752
Disjunctive programming and a hierarchy of relaxations for discrete optimization problems
[AD-A132004] 03 p0425 N84-12784
Methods of optimizing parameters of mechanisms performing repeated brief operations
[BLL-M-35352] 04 p0543 N84-13575
Optimization of structures subjected to periodic loads 04 p0547 N84-13605
Design and development of a high-concentration and high-efficiency photovoltaic concentrator using a curved Fresnel lens
[DE84-000967] 04 p0558 N84-13679
Interacting weights in multiple attribute decision making
[CSIR-TWISK-270] 04 p0586 N84-13874
Use of an exact penalty function for optimization of discrete problems
[INPE-2789-PRE/342] 04 p0588 N84-13883
Powerplant selection for conceptual helicopter design
[AD-A132982] 05 p0632 N84-14153
Computation of compressible flows using finite elements and optimization techniques 05 p0678 N84-14456
On the use of replacements to extend system life
[AD-A132878] 05 p0690 N84-14532
Generation of feasible descent directions in continuous time linear programming
[DE84-002506] 05 p0717 N84-14684
On some issues concerning optimization and decision trees
[AD-A134109] 05 p0733 N84-14815
An overview of the quasi-optimizer system
[AD-A133763] 05 p0739 N84-14856
Multiplication models in projection pursuit
[DE84-001142] 05 p0741 N84-14866
An anisotropic model of diffuse solar radiation with application to an optimization of compound parabolic collectors 05 p0765 N84-15017
Optimization of waverider configurations generated from non-axisymmetric flows past a nearly circular cone 06 p0780 N84-15108
Composite laminate weight optimization on the HX-20
[AD-A133490] 06 p0799 N84-15207
An algorithm for detecting a change in stochastic process
[AD-A134104] 06 p0800 N84-15842
Optimal reconstructions and n-widths
[AD-A133576] 06 p0802 N84-15853
Constrained function minimization. Comparison of the augmented Lagrangian and sequentially increasing penalty method
[PB83-217285] 06 p0803 N84-15863
Technical support for AXAF
[NASA-CR-170950] 06 p0917 N84-15959
Approaches to optimization of SS/TDMA time slot assignment — satellite switched time division multiple access
[NASA-CR-168328] 07 p0963 N84-16243
Composite laminate weight optimization on the sharp PC-1500 pocket computer
[AD-A133348] 07 p0968 N84-16272
Optimization of laminated composite cylindrical shells for axial buckling 07 p0985 N84-16377
Analysis of the performance of the free electron bolometer
[AD-A134139] 07 p1008 N84-16533
Optimized rotary flux compressors for powering laser flashlamps
[DE84-002794] 07 p1010 N84-16555
Structural optimization: Challenges and opportunities
[NASA-TM-85741] 07 p1016 N84-16591
SAMPLE: Software for VAX FORTRAN execution timing
[DE84-003819] 07 p1055 N84-16834
The automatic transmission optimal control problem
[CSIR-TWISK-266] 07 p1057 N84-16844
Parallel algorithms in combinatorial optimization: An annotated bibliography
[MC-BW-169/83] 07 p1058 N84-16853
Sufficiency of exact penalty minimization
[AD-A134559] 07 p1063 N84-16898
Scheduling theory since 1981: An annotated bibliography
[MC-BW-168/83] 07 p1068 N84-16934
Dynamic meteorology; control theory and optimization. Research programme, 1983-1984
[CSIR-SWISK-31] 07 p1094 N84-17115
Simply instrumentable and optimal digitization of analog information sources
[AD-A135124] 08 p1150 N84-17484

Shape optimal design and free boundary value problems 08 p1154 N84-17516
Algorithms, modeling and estimation for linear systems [AD-A135134] 08 p1216 N84-17951
Proposed second harmonic acceleration system for the intense pulsed neutron source rapid cycling synchrotron [DE84-003601] 08 p1230 N84-18036
Quantification of interference and detectability properties of visual stimuli for optimal display design [AD-A135438] 08 p1232 N84-18049
Preventive maintenance intervals for components of the F-15/F100 aircraft engine [AD-A135637] 09 p1249 N84-18156
Development and application of optimization techniques for composite laminates [AD-A135832] 09 p1276 N84-18330
Investigation of optimum magnet geometries for gain-expanded free-electron lasers [AD-A136494] 09 p1321 N84-18634
Design optimization of marine reduction gears [AD-A136352] 09 p1325 N84-18656
A high-order test for optimality of bang-bang controls [AD-A136375] 09 p1371 N84-18954
Algorithms for computing (H sup (infinity symbol)) optimal transfer functions [PB84-127448] 09 p1380 N84-19015
Integrating multi-objective optimization methodologies in BMD technology [AD-A136161] 09 p1383 N84-19036
Average optimality criteria in the problems with unlimited control rates [PB84-127943] 09 p1384 N84-19040
System engineering management guide [AD-A136020] 09 p1398 N84-19129
Optimization methods applied to hybrid vehicle design [NASA-CR-168292] 09 p1406 N84-19185
Thermal network correction by simplex optimization — spacecraft thermal balance testing 10 p1442 N84-19422
Distributed optimization algorithms with communications [AD-A137476] 10 p1480 N84-19672
A microcomputer based general linear programming optimization package [AD-A137506] 10 p1557 N84-20196
Solution of dynamic optimization problems by successive quadratic programming and orthogonal collocation [AD-A137338] 10 p1563 N84-20238
The optimization method for the Mather plasma focus device 10 p1583 N84-20377
Algorithms for output feedback, multiple-model, and decentralized control problems 11 p1617 N84-20583
Optimization for vibration isolation [AD-A137895] 11 p1668 N84-20886
MINOS 5.0 user's guide [DE84-005640] 11 p1709 N84-21140
Multi-Bayesian estimation theory [CSIR-TWISK-296] 11 p1712 N84-21160
Generalized Dinkelbach-type algorithms [CSIR-TWISK-295] 11 p1712 N84-21161
Simple computable bounds for solutions of linear complementarity problems and linear programs [AD-A137949] 11 p1715 N84-21188
Evaluation of step directions in optimization algorithms [DE84-006044] 11 p1716 N84-21194
The numerical solution of three stochastic differential games [CSIR-TWISK-292] 11 p1718 N84-21205
Report by the Chairman of the Fluid Dynamics Panel 12 p1763 N84-21499
Identification of airfoil characteristics for optimum wind turbine performance 12 p1765 N84-21510
The 100 GHz, 1 MW, CW gyrotron study program [DE84-005751] 12 p1813 N84-21819
Applying robotic technology to the solid film lubricant burnishing operation [DE84-007113] 12 p1823 N84-21885
Simultaneous analysis and design [NASA-CR-172334] 12 p1826 N84-21902
Optimization of transparent electrode for solar cell and chemical vapor deposition of amorphous silicon [DE83-017780] 12 p1843 N84-22014
Application of augmented-Lagrangian methods in meteorology: Comparison of different conjugate-gradient codes for large-scale minimization 12 p1854 N84-22076
Convexity and concavity properties of the optimal value function in parametric nonlinear programming [AD-A138202] 12 p1881 N84-22264
Optimization of thermal systems with sensitive optics, electronics, and structures [NASA-CR-3745] 13 p1939 N84-22606
Atmospheric correction study/atmospheric model optimization [INPE-2969-RPE/448] 13 p2010 N84-23040
Material handling: A target for productivity improvement [AD-P002829] 13 p2062 N84-23374
Thermal detectors as X-ray spectrometers [NASA-TM-86092] 14 p2148 N84-23866
Orthogonal schemes for structural optimization [AD-P002954] 14 p2199 N84-24194
Development of a microcomputer-based engineering design optimization software package [AD-A139123] 14 p2205 N84-24232
On the reduction procedure for weak convergence of measures [CTH-MATH-1983-19] 14 p2215 N84-24306
Vector optimization techniques [AD-A139497] 14 p2219 N84-24317
Optimizing the maneuvers of an observation satellite for rapid overflight of a precise point on Earth 15 p2268 N84-24617
Low authority control of flexible spacecraft via numerical optimization 15 p2268 N84-24621
Design of a robust missile controller by vector performance optimization [DFVLR-FB-84-05] 15 p2280 N84-24694
A review of internal combustion engine combustion chamber process studies at NASA Lewis Research Center [NASA-TM-83666] 15 p2331 N84-24999
Optimization of fringe-type laser anemometers for turbine engine component testing [NASA-TM-83658] 15 p2335 N84-25019
Lean limit control for internal combustion engines [DE84-006542] 15 p2344 N84-25071
The front concept and profile reduction numberings [SNIAS-832-440-102] 15 p2397 N84-25381
A parallel method for natural texture synthesis [AD-A139689] 15 p2398 N84-25385
Application of an optimization method to high performance propeller designs [NASA-TM-83710] 16 p2433 N84-25607
An algorithm for maximum likelihood estimation using an efficient method for approximating sensitivities [NASA-TP-2311] 16 p2451 N84-25717
Optimization methods in hierarchical holographic modeling 16 p2494 N84-26001
Conference on Vector Calculators, Winter Quarter 1983 16 p2548 N84-26355
On the optimality of some subset selection procedures [AD-A140180] 16 p2549 N84-26362
Modelling with integer variables [AD-A140212] 16 p2549 N84-26363
The relationship between exhaustivity and consistency at the optimum indexing level 16 p2565 N84-26462
Optimizing the thrust deflecting surface for the pneumatic thrust deflector [AD-A140612] 17 p2609 N84-26703
Optimal position of solar arrays on sunsynchronous satellites [INPE-3010-RPE/454] 17 p2614 N84-26732
Procedure for calculation of stages with operational direct-current amplifiers 17 p2634 N84-26853
Stochastic modeling of EDM with a view to off-line optimization [PB84-162296] 17 p2639 N84-26885
Novel method of assembling large multicomponent machine sets 17 p2641 N84-26899
A study of elimination conditions for the permutation flow-shop sequencing problem [CWI-OS-R8403] 17 p2754 N84-27483
The decision for the optimal price in competitive bidding: The case of a Korean construction company [AD-A140556] 17 p2770 N84-27585
Stochastic bounds on distributions of optimal value functions with applications to PERT, network flow and reliability [REPT-81] 17 p2771 N84-27593
An implementation of the programming structural synthesis system (PROSSS) [NASA-TM-83180] 18 p2920 N84-28517
An implementation of the distributed programming structural synthesis system (PROSSS) [NASA-TM-83253] 18 p2920 N84-28518
Optimal and suboptimal estimation of nonlinear stochastic systems [AD-A140929] 18 p2925 N84-28546
An optimization methodology for multi-criteria comparison using response surface methods and mathematical programming [AD-A141169] 18 p2926 N84-28555
Subgradient methods in deterministic and stochastic optimization [AD-A141216] 18 p2926 N84-28556
Some notes on optimization of confidence bands in process control based on approximate models [RR-215] 19 p3003 N84-29031
The generation of a mass point model from surface gravity data [AD-A142327] 19 p3054 N84-29382
Special nonlinear optimization techniques [AD-A141097] 19 p3083 N84-29564
A limit theorem on characteristic functions via an extremal principle [AD-A141390] 19 p3083 N84-29567
Uniqueness of Whittaker models for irreducible objects in Alg(Mp(k)) [MC-ZW-203/83] 19 p3092 N84-29639
Optimization of electromagnetic propulsion systems 20 p3139 N84-29929
Dynamic powder compaction [DE84-006133] 20 p3170 N84-30132
Testament of general boundary conditions and point-wise state variable constraints in optimum design for static and dynamic response [PB84-192749] 20 p3204 N84-30356
Boolean computation of optimum hitting sets [DE84-012920] 20 p3283 N84-30842
A steady-state version of a dynamic optimal budgeting problem [AD-A142281] 20 p3312 N84-31034
Object code optimization in a standard compiler [AD-P003520] 21 p3329 N84-31124
A computerized system for establishing electric-vehicle battery requirements [DE84-011728] 21 p3395 N84-31545
Nonlinear inverse methods applied to interpreting gravity anomalies produced by multi-interfaced geologic bodies 21 p3440 N84-31822
Investigation of criteria enabling a two-dimensional grid to evolve while minimizing errors [CETIM-100980] 21 p3467 N84-31982
Directional convexity and finite optimality conditions [AD-A141698] 21 p3471 N84-32000
Globally convergent procedures for solving nonlinear minimization problems [AD-A142905] 21 p3473 N84-32009
Bi- and poly-optimal confidence limits for a location and parameter [AD-A142980] 21 p3473 N84-32012
An exhaustive analysis of multiplicative congruential random number generators with modulus 2(31)-1 [AD-A143065] 21 p3473 N84-32015
Strong confidence intervals: A compromise between the Gaussian and the slash [AD-A142981] 21 p3475 N84-32021
Sequential method of minimizing nonlinear function on simplex 21 p3484 N84-32080
Logical optimization for database uniformization [NASA-CR-173836] 21 p3518 N84-32282
Optimization of antenna structure design 22 p3572 N84-32624
SEAMOPT: Sterling engine optimization code [DE84-012098] 22 p3605 N84-32840
Duality in inexact fractional programming with set-inclusive constraints [DE84-023584] 22 p3642 N84-33092
Ignition and flame propagation in sprays [AD-A143773] 23 p3713 N84-33538
Multicriterion optimization of construction [ISSN-0208-5658] 23 p3759 N84-33822
A method for the optimization of the geometry and the magnetization of magnetized bodies that are assumed for the solution of the inverse magnetic field problem 23 p3776 N84-33942
Development of metallization process. FSA project, cell and module formation research area [NASA-CR-173959] 23 p3789 N84-34030
PROCAOC: A program for computation, analysis and optimization of circuits [INPE-3135-PRE/526] 23 p3814 N84-34184
Project active and passive microwave devices with auxiliary computer [INPE-3152-TDL/189] 23 p3814 N84-34185
Prospects of laser communications in space 24 p3903 N84-34718
Spline and weighted random directions method for nonlinear optimization [AD-A144217] 24 p3950 N84-35012
Multivariate scattered data derivative generation by functional minimization [AD-A144663] 24 p3952 N84-35028

OPTIMUM CONTROL
U OPTIMAL CONTROL

OPTOGALVANIC SPECTROSCOPY
Discharge cell for optogalvanic spectroscopy having orthogonal relationship between the probe laser and discharge axis [NASA-CASE-NPO-16271-1] 06 p0849 N84-15537

OPTOMETRY
Accommodative amplitude and speed measuring instrument [AD-D011032] 19 p3071 N84-29484

Physiology 22 p3684 N84-33383
OR-GATES
U GATES (CIRCUITS)
ORBIT CALCULATION
NT MINIMUM VARIANCE ORBIT DETERMINATION
An analysis of the satellite kinematics model in the Naval Warfare Gaming System
[AD-A134039] 05 p0643 N84-14229
Non-gravitational force modelling and altimeter measurement modelling for SEASAT-A satellite 11 p1621 N84-20609
The orbit of Lagaos and solar eclipses
[NASA-TM-86076] 12 p1923 N84-22525
Semi-analytical procedure for the propagation of artificial satellite orbits based on parameter estimation
[INPE-2757-PRE/333] 15 p2270 N84-24628
Equipment for measuring the distance of satellite in low orbit
[INPE-3126-PRE/517] 16 p2455 N84-25739
Orbit maneuvers with finite thrust
[MBB-UR-654-83-O] 16 p2455 N84-25741
Space in Keplerian orbits 19 p2972 N84-28842
Guaranteed accuracy in determining orbit of Halley's Comet 19 p2973 N84-28845
Quasicircular equatorial orbits of artificial earth satellites with allowance for light pressure 19 p2974 N84-28851
The program ORBDOP (extended GEODOP) — satellite position 19 p3039 N84-29280
The Motion of Planets and Natural and Artificial Satellites, volume 2 19 p3117 N84-29806
Comment on coupled perturbations on orbits of artificial earth satellites 19 p3119 N84-29824
New ephemerides for the Galilean Satellites of Jupiter calculated from Sampson-Lieske theory 19 p3119 N84-29825
Periodic orbits and libration in the Mimas-Tethys case 19 p3121 N84-29839
Geodyn systems development 20 p3221 N84-30467
Angles-only, ground-based, initial orbit determination
[AD-A142994] 21 p3348 N84-31241
Flight Experiment Demonstration System (FEDS): Mathematical specification
[NASA-CR-175252] 22 p3539 N84-32405
Comparison of analytical theories for studying the contraction of artificial satellite orbits
[INPE-2746-PRE/322] 22 p3540 N84-32409
ORBIT DECAY
Orbit determination and prediction study for Dynamic Explorer 2
[NASA-TM-85096] 02 p0183 N84-11192
Simulations of galaxy mergers 11 p1757 N84-21470
ORBIT EQUATIONS
U ORBITAL MECHANICS
ORBIT MANEUVERING ENGINE (SPACE SHUTTLE)
An alternate concept for expanding man's presence in space
[NASA-TM-84617] 06 p0794 N84-15172
The space transportation system reaction control system and orbital maneuvering subsystem 20 p3135 N84-29908
Iron nitrate and MON-3 nitrogen tetroxide 20 p3136 N84-29909
Shuttle payload improvement by low risk modifications to the OMS engine 20 p3138 N84-29925
ORBIT PERTURBATION
NT SATELLITE PERTURBATION
Nonlinear orbits in free-electron lasers with a linear magnetic wiggler and a strong axial magnetic guide field
[AD-A135984] 09 p1323 N84-18642
Orbital motion of a freely coning solar sail
[AD-A136794] 10 p1435 N84-19381
Numerical orbit generators of artificial earth satellites
[INPE-3050-RPE/455] 16 p2455 N84-25740
Flights to asteroids with space vehicle maneuvers near Venus, Earth, Mars and Jupiter 19 p2973 N84-28844
Quasicircular equatorial orbits of artificial earth satellites with allowance for light pressure 19 p2974 N84-28851
The Motion of Planets and Natural and Artificial Satellites, volume 2 19 p3117 N84-29806
The S-9 ephemeride of Phoebe with an analysis pf the observation 19 p3119 N84-29826
Study on the perturbation of lunar and planetary orbiters
[MATRA-CMT-RT005] 23 p3697 N84-33429
ORBIT SPECTRUM UTILIZATION
Geometric models, antenna gains, and protection ratios as developed for BC SAT-R2 conference software
[NASA-TM-83381] 02 p0208 N84-11358
Spectrum resource assessment in the 5650-5925 MHz
[PB84-127430] 09 p1305 N84-18530
WARC and CCIR support for spectrum-orbit planning
[NASA-CR-163048] 19 p2979 N84-28884
ORBIT TRANSFER VEHICLES
Development of deployable structures for large space platforms. Volume 2: Design development
[NASA-CR-170914] 01 p0028 N84-10176
Orbital propulsion module system configuration study. Volume 1: Executive summary
[S/DT/YA-25-030-VOL-1] 08 p1120 N84-17282
Orbital propulsion module system configuration study, volume 2
[S/DT/YA-25-030-VOL-2] 08 p1120 N84-17283
Fluid management 09 p1268 N84-18284
Definition of technology development missions for early space stations orbit transfer vehicle serving. Phase 2, task 1: Space station support of operational OTV servicing
[NASA-CR-170984] 10 p1434 N84-19377
System feasibility study on rendezvous and docking in transfer orbit, volume 1
[PV6-13/82-VOL-1] 12 p1776 N84-21588
System feasibility study on rendezvous and docking in transfer orbit, volume 2
[PRV6-13/82] 12 p1776 N84-21589
Optimal maneuvers of orbital transfer vehicles 13 p1939 N84-22606
Tanker orbit transfer vehicle and method
[NASA-CASE-MSC-20543-1] 13 p1939 N84-22610
Manned geosynchronous mission requirements and systems analysis study extension
[NASA-CR-173547] 15 p2281 N84-24700
The next generation of reentry vehicles: NASA's view 16 p2441 N84-25658
Propulsion issues for advanced orbit transfer vehicles
[NASA-TM-83624] 16 p2459 N84-25762
A study of space station needs, attributes and architectural options, midterm briefing
[NASA-CR-173714] 18 p2805 N84-27809
Analysis of electric propulsion orbit transfer vehicles versus IUS, CENTAUR-G, and a reuseable bipropellant system
[AD-A141173] 18 p2806 N84-27827
NASA Orbit Transfer Rocket Engine Technology Program
[NASA-CR-168156] 19 p2983 N84-28901
Propulsion issues for advanced orbit transfer vehicles 20 p3140 N84-29937
A study of space station needs, attributes and architectural options
[NASA-CR-173997] 24 p3859 N84-34459
ORBITAL ASSEMBLY
A manned-machine space station construction concept
[NASA-TM-85762] 10 p1439 N84-19395
Construction concept for erecting an offset-fed antenna
[NASA-TM-85774] 11 p1623 N84-20626
Shutter interaction study extension
[NASA-CR-173401] 12 p1777 N84-21593
Conceptual design of a mobile remote manipulator system 19 p2982 N84-28894
ORBITAL ELEMENTS
Utilization of satellite observations to determine the mean orbital elements
[LFD-219] 15 p2269 N84-24627
Moments of inclination error distribution computer program
[NASA-CR-165824] 19 p3073 N84-29501
Inclined geosynchronous satellites 19 p3119 N84-29820
Relative motion characteristics of 2 near-Earth Satellites
[NASA-CR-173887] 22 p3678 N84-33316
ORBITAL FLIGHT TEST 1 (SHUTTLE)
U SPACE TRANSPORTATION SYSTEM 1 FLIGHT
ORBITAL FLIGHT TEST 2 (SHUTTLE)
U SPACE TRANSPORTATION SYSTEM 2 FLIGHT
ORBITAL FLIGHT TEST 3 (SHUTTLE)
U SPACE TRANSPORTATION SYSTEM 3 FLIGHT
ORBITAL FLIGHT TEST 4 (SHUTTLE)
U SPACE TRANSPORTATION SYSTEM 4 FLIGHT
ORBITAL FLIGHT TESTS (SHUTTLE)
U SPACE TRANSPORTATION SYSTEM FLIGHTS
ORBITAL LIFETIME
Forecasting satellite motion 12 p1775 N84-21583
ORBITAL MANEUVERING VEHICLES
Orbital maneuvering vehicle simulation system on-board processing logic 06 p0931 N84-16052
OMV: A simplified mathematical model of the orbital maneuvering vehicle
[NASA-CR-171123] 20 p3134 N84-29902
Computer vision for real-time orbital operations. Center directors discretionary fund
[NASA-TM-86457] 22 p3640 N84-33076
ORBITAL MANEUVERS
AFFTC overview of orbiter-reentry flight-test results 01 p0027 N84-10169
Optimal low thrust, three burn orbit transfers with large plane changes 06 p0793 N84-15166
A FMCW radar ranging device for the teleoperator maneuvering system 06 p0930 N84-16045
Centaur D-1A guidance/software system
[NASA-TM-83552] 07 p0962 N84-16234
Optimizing the maneuvers of an observation satellite for rapid overflight of a precise point on Earth 15 p2268 N84-24617
Aerothermal wind tunnel test of the space shuttle OMS (Orbital Maneuvering System) pod AFRSI (Advanced Flexible Reusable Surface Insulation) material
[AD-A140292] 16 p2457 N84-25754
Flights to asteroids with space vehicle maneuvers near Venus, Earth, Mars and Jupiter 19 p2973 N84-28844
LANDSAT-5 orbit adjust maneuver report
[E84-10155] 19 p3039 N84-29276
Detailed system studies on rendezvous and docking
[ERNO-RX-015-2/83] 23 p3697 N84-33427
System operations, book 6
[NAS 1.15:86652-BK-6] 23 p3699 N84-33442
ORBITAL MECHANICS
NT KEPLER LAWS
NT MINIMUM VARIANCE ORBIT DETERMINATION
On perturbation theory
[AD-A130213] 01 p0131 N84-10656
Development, design and testing of the engineering model of the electric propulsion system Radiofrequency Ion Thrust Assembly (RITA)
[BMFT-FB-W-83-017] 07 p0965 N84-16254
Investigation of electrodynamic stabilization and control of long orbiting tethers
[NASA-CR-170972] 08 p1115 N84-17251
The fate of the magellanic clouds 09 p1413 N84-19248
Orbital eccentricity in a logarithmic potential 09 p1414 N84-19249
A semianalytic method of orbital propagation for mission analysis
[INPE-2748-PRE/324] 10 p1435 N84-19380
Introduction to geostationary orbits
[ESA-SP-1053] 12 p1776 N84-21590
Satellite orbit theory for a small computer
[AD-A139406] 14 p2112 N84-23660
Utilization of satellite observations to determine the mean orbital elements
[LFD-219] 15 p2269 N84-24627
Orbit maneuvers with finite thrust
[MBB-UR-654-83-O] 16 p2455 N84-25741
Stability diagrams for a rigid gyrostat in a circular orbit
[UTIAS-TN-243] 17 p2571 N84-27023
Elliptical orbit performance computer program
[NASA-CR-165832] 18 p2920 N84-28515
LANDSAT-5 orbit adjust maneuver report
[E84-10155] 19 p3039 N84-29276
Moments of inclination error distribution computer program
[NASA-CR-165824] 19 p3073 N84-29501
Comment on coupled perturbations on orbits of artificial earth satellites 19 p3119 N84-29824
Analytical theory of the motion of the Galilean satellites of Jupiter: The first approximation 19 p3120 N84-29834
A simple theory of Trojan asteroids 19 p3121 N84-29837
Colocation stationkeeping of geostationary satellites 19 p3121 N84-29838
Periodic orbits and libration in the Mimas-Tethys case 19 p3121 N84-29839
Qualitative study of the planar isosceles three-body problem
[PREPRINT-35] 20 p3133 N84-29696
Tracking and Data Relay Satellite launch recovery mission 20 p3137 N84-29918
Observational requirements and measurement systems concepts 20 p3219 N84-30452
Research activities of the Geodynamics Branch
[NASA-TM-86123] 20 p3220 N84-30455
Reentry analysis
[DE84-012640] 21 p3498 N84-32167
Comparison of analytical theories for studying the contraction of artificial satellite orbits
[INPE-2746-PRE/322] 22 p3540 N84-32409
Artificial satellites, orbital motion
[INPE-3163-RPE/458] 23 p3699 N84-33445
Objectives: Activities and needs of the digital simulation laboratory, attitude and orbit control systems, and the thermal control laboratory of the space mechanics and control department
[INPE-3174-RPE/459] 23 p3833 N84-34311
ORBITAL MOTION
U ORBITS

ORBITAL POSITION ESTIMATION
Orbit determination and prediction study for Dynamic Explorer 2
[NASA-TM-85098] 02 p0183 N84-11192
Radar investigations of asteroids
[NASA-CR-175348] 07 p1092 N84-17100
Engineering calculations for communications satellite systems planning
[NASA-CR-173532] 14 p2113 N84-23662
Multifunction spacecraft attitude estimation and navigation system 15 p2267 N84-24611
Inertial-optical attitude determination and model following control of maneuvering spacecraft 15 p2267 N84-24613
Base blend projectiles: Range calculation program and efficiency comparisons
[FOA-C-20516-D2] 15 p2280 N84-24695
Inertial-optical attitude determination and model following control of manoeuvring spacecraft
[NLR-MP-83053-U] 17 p2616 N84-26742
An adaptive satellite orbit estimation scheme using an analytical approach and a dynamical model compensation technique 19 p3119 N84-29821
Angles-only, ground-based, initial orbit determination
[AD-A142994] 21 p3348 N84-31241
State estimation and parameter identification: An approach involving a pair consisting of the initial state and the trajectory
[INPE-3183-PRE/548] 21 p3471 N84-31995

ORBITAL RENDEZVOUS
NT EARTH ORBITAL RENDEZVOUS
Image dissector camera system study
[NASA-CR-171759] 11 p1656 N84-20806
System feasibility study on rendezvous and docking in transfer orbit, volume 1
[PV6-13/82-VOL-1] 12 p1776 N84-21588
System feasibility study on rendezvous and docking in transfer orbit, volume 2
[PRV6-13/82] 12 p1776 N84-21589
The influence of sensor and thruster imperfections on the attitude and position of a spacecraft performing a rendezvous 15 p2257 N84-24615
Control aspects as elaborated in space rendezvous simulations 15 p2268 N84-24616
Ku-Band rendezvous radar performance computer simulation model
[NASA-CR-171804] 22 p3576 N84-32650
Detailed system studies on rendezvous and docking
[ERNO-RX-015-2/83] 23 p3697 N84-33427
Detailed system studies on rendezvous and docking. Part 1: Executive summary
[ESA-CR(P)-1894-PT-1] 23 p3697 N84-33428

ORBITAL SERVICING
Satellite services system analysis study, part 3
[NASA-CR-171718] 02 p0183 N84-11188
Satellite services system analysis study: Propellant transfer system
[NASA-CR-174573] 02 p0183 N84-11189
Electrical self-aligning connector — orbital servicer vehicles
[NASA-CASE-MFS-25211-2] 05 p0673 N84-14423
An alternate concept for expanding man's presence in space
[NASA-TM-84617] 06 p0794 N84-15172
On-orbit spacecraft/stage servicing during STS life cycle
[NASA-CR-171775] 11 p1622 N84-20617
Hot melt adhesive pad surface attachment assembly concept for on-orbit operations
[NASA-TM-85771] 12 p1777 N84-21598
Tanker orbit transfer vehicle and method
[NASA-CASE-MSC-20543-1] 13 p1939 N84-22610
Constant force friction damper
[NASA-CASE-MSC-20505-1] 13 p1939 N84-22611
The role of onboard intelligence and of orbital servicing in the increase of satellite lifetime 15 p2266 N84-24605
Docking mechanism for in-orbit assembly and spacecraft servicing 15 p2267 N84-24614
Repairing Solar Max: The Solar Maximum Repair Mission
[NASA-EP-205] 19 p2979 N84-28883
Spacecraft servicing demonstration plan
[NASA-CR-171132] 21 p3351 N84-31258
On orbit surfacing of thermal control surfaces
[NASA-CR-171121] 21 p3352 N84-31266
Space telescope, 1984
[GPO-37-290] 23 p3638 N84-34350

ORBITAL SHOTS
Capture-ejector satellites
[NASA-TM-85686] 06 p0795 N84-15179

ORBITAL SIMULATORS
U SPACE SIMULATORS

ORBITAL SPACE STATIONS
NT LONG DURATION EXPOSURE FACILITY
NT SALYUT SPACE STATION
NT SPACE OPERATIONS CENTER (NASA)
Study of multi-kilowatt solar arrays for Earth orbit applications
[NASA-CR-170539] 03 p0403 N84-12634
Krasnaya Zvezda on advantages of Cosmos-1443 modular spacecraft 05 p0633 N84-14161
An alternate concept for expanding man's presence in space
[NASA-TM-84617] 06 p0794 N84-15172
Capture-ejector satellites
[NASA-TM-85686] 06 p0795 N84-15179
Feasibility study to conduct windblown sediment experiments aboard a space station
[NASA-CR-175434] 12 p1776 N84-21586
Shuttle interaction study
[NASA-CR-173400] 12 p1777 N84-21592
Shutter interaction study extension
[NASA-CR-173401] 12 p1777 N84-21593
Performance assessment of planetary missions as launched from an orbiting space station
[NASA-CR-173498] 13 p1936 N84-22594
National Aeronautics and Space Administration 17 p2772 N84-27604
Practical applications of a space station
[NASA-CR-173672] 21 p3353 N84-31270
Stand on space station participation to be surveyed 23 p3732 N84-33658
NASA authorization for fiscal year 1985
[GPO-32-383] 24 p3969 N84-35133

ORBITAL TEST SATELLITE (ESA)
U OTS (ESA)

ORBITAL TRANSFER
U TRANSFER ORBITS

ORBITAL VELOCITY
Capture-ejector satellites
[NASA-TM-85686] 06 p0795 N84-15179

ORBITAL WORKERS
Mental status and work capacity of Salyut-6 station crew members 07 p1044 N84-16773

ORBITALS
NT ELECTRON ORBITALS
NT MOLECULAR ORBITALS
NT SLATER ORBITALS

ORBITING SATELLITES
U ARTIFICIAL SATELLITES

ORBITS
NT APHELIONS
NT CIRCULAR ORBITS
NT EARTH ORBITS
NT ECCENTRIC ORBITS
NT ELLIPTICAL ORBITS
NT EQUATORIAL ORBITS
NT GEOSYNCHRONOUS ORBITS
NT INTERPLANETARY TRANSFER ORBITS
NT PERIHELIONS
NT PLANETARY ORBITS
NT POLAR ORBITS
NT SATELLITE ORBITS
NT SOLAR ORBITS
NT SPACECRAFT ORBITS
NT STATIONARY ORBITS
NT TRANSFER ORBITS
Three-dimensional, periodic halo orbits in the restricted three-body problem 06 p0793 N84-15167
Space Station needs, attributes and architectural options. Volume 2, book 1, part 1: Mission requirements
[NASA-CR-173312] 09 p1270 N84-18296
Changing gain versus area of stability for a scalar, modal controller
[AD-A136804] 10 p1436 N84-19385
More optimal searches
[AD-A136934] 10 p1436 N84-19387
The Lorentz Transformation and the radar Doppler equation
[AD-A137901] 11 p1643 N84-20745
A topological version of a theorem of Mather on twist maps
[AD-A137950] 11 p1716 N84-21189
Cometary nucleus and active regions 13 p2075 N84-23450
Techniques for the analysis of spectral and orbital congestion in space systems
[AD-A140841] 17 p2614 N84-26734
Solar array: Plasma interactions 19 p3048 N84-29343
Abelian integrals and bifurcation theory
[AD-A142186] 19 p3089 N84-29613
Hopf bifurcation and symmetry: Traveling and standing waves on the circle
[MC-TW-249/83] 19 p3091 N84-29631
Periodic and quasi-periodic motions in triple stellar systems 19 p3117 N84-29807
Stability of equilibrium in problems with double resonance 19 p3117 N84-29809
Stability and capture of asteroids 19 p3118 N84-29811
Formal solutions in a double resonant problem 19 p3118 N84-29813
Comment on coupled perturbations on orbits of artificial earth satellites 19 p3119 N84-29824
A simple theory of Trojan asteroids 19 p3121 N84-29837
Periodic orbits and libration in the Mimas-Tethys case 19 p3121 N84-29839
Qualitative study of the planar isosceles three-body problem
[PREPRINT-35] 20 p3133 N84-29896
An overview of LANDSAT-4 and the Thematic Mapper 20 p3206 N84-30364
Angles-only, ground-based, initial orbit determination
[AD-A142994] 21 p3348 N84-31241
Optimization of the capture process for a rigid satellite stabilized by gravity gradient
[INPE-3184-PRE/549] 21 p3349 N84-31245
Reentry analysis
[DE84-012640] 21 p3498 N84-32167
Symbolic dynamics and nonlinear semiflows
[AD-A143487] 22 p3646 N84-33117
Behavior of orbits of two coupled oscillators
[DE84-013379] 22 p3659 N84-33197

ORDER-DISORDER TRANSFORMATIONS
Calculation of critical temperatures and correlation parameters in binary alloys by the method of BBGKI equations
[BLL-M-35200-(5828.4)] 01 p0042 N84-10272
Mechanism switching and trapping of Triplet-Triplet energy transfer in an orientationally disordered molecular solid
[AD-A130660] 01 p0142 N84-10931
A cluster model for two-dimensional disordered systems
[INPE-2895-PRE/414] 02 p0298 N84-11953
Structural phase transitions at high pressure: Quantum effects
[DE84-005724] 11 p1745 N84-21390
Impurity states in 2- and 3-dimensional disordered systems
[INPE-3066-PRE/483] 16 p2559 N84-26416
Dynamical properties of disordered systems
[AD-A141597] 19 p3085 N84-29580
Vibrational studies of the structure of disordered solids
[AD-A142297] 20 p3202 N84-30338

ORDNANCE
An explosive ordnance disposal protective suit
[AD-D011072] 19 p3071 N84-29483

OREGON
An evaluation of thematic mapper simulator data for the geobotanical discrimination of rock types in Southwest Oregon
[NASA-CR-166569] 12 p1828 N84-21915
Sedimentary response to eocene tectonic rotation in western Oregon 13 p2013 N84-23063
Water resources data for Oregon, water year 1982. Volume 1: Eastern Oregon
[PB84-164326] 14 p2171 N84-24005
Water resources data for Oregon, water year 1982. Volume 2: Western Oregon
[PB84-164334] 14 p2171 N84-24006

ORES
U MINERALS

ORGANIC CHEMISTRY
Applications of molecular quantum mechanics to problems in chemistry
[DE83-015943] 03 p0456 N84-13003
Activities of the National Chemical Research Laboratory
[CSIR-SR-CHEM-261] 06 p0796 N84-15188
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-3] 13 p1953 N84-22698
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-4] 13 p1953 N84-22699
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-5] 13 p1953 N84-22700
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-6] 13 p1953 N84-22701
Nonenzymatic formation of energy-rich lactoyl and glyceroyl thioesters from glyceraldehyde and a thiol
[NASA-CR-173633] 17 p2617 N84-26748
United States Air Force Academy, Department of Chemistry research: AY 1982-83
[AD-A141015] 18 p2808 N84-27828
New approaches to the synthesis of novel organosilanes
[AD-A141803] 19 p2985 N84-28913

ORGANIC COMPOUNDS
NT ADENOSINE TRIPHOSPHATE
NT AMINO ACIDS
NT CARBON TETRAFLUORIDE
NT CYCLIC COMPOUNDS
NT FATS
NT FATTY ACIDS
NT FLUOROAMINES
NT FLUOROCARBONS
NT FLUOROHYDROCARBONS
NT FURANS
NT GLUTAMIC ACID
NT GLUTAMINE
NT HISTIDINE
NT KEL-F
NT LYSINE
NT ORGANIC LIQUIDS
NT ORGANIC SULFUR COMPOUNDS
NT PEPTIDES
NT PERFLUOROALKANE
NT PHOSPHAZENE
NT POLYNUCLEAR ORGANIC COMPOUNDS
NT POLYPEPTIDES
NT PROPARGYL GROUPS
NT QUINOLINE
NT SEROTONIN
NT TETRAHYDROFURAN
NT TRYPTOPHAN
Biorefining of selected industrial wastes to liquid fuels and organic chemicals
[DE83-013910] 01 p0054 N84-10348
Optimizing coagulation-adsorption for haloform and TOC (Total Organic Carbon) reduction
[PB83-210757] 01 p0058 N84-10378
Recent advances in EPA's (Environmental Prog monitoring and methods development research
[PB83-231209] 01 p0115 N84-10743
Personal exposure to volatile organics and other compounds indoors and outdoors: The TEAM (Total Exposure Assessment Methodology) study
[PB83-231357] 01 p0115 N84-10744
Synthesis of perfluoroalkylene dianilines
[NASA-CR-168004] 02 p0189 N84-11228
Optimization of GC/MS based Tenax collection method for toxic organics
[PB83-229476] 02 p0222 N84-11455
Development of a continuous monitor for detection of toxic organic compounds
[PB83-234922] 03 p0378 N84-12461
Investigation of the possibilities for the electrodeposition of titanium from non-aqueous solutions
[BLL-OA-TRANS-3069-(6196.3)] 04 p0498 N84-13267
Evaluation of organic carbon analyzers for space application — for water reclamation
[NASA-CR-171755] 09 p1317 N84-18607
Electron donor-acceptor quenching and photoinduced electron transfer for coumarin dyes
[AD-A136345] 09 p1394 N84-19105
Chemical ionization mass spectrometry: New methodology
[AD-A138037] 12 p1791 N84-21678
Investigation of organic oxidizers for high performance low flame temperature gas generator applications 13 p1950 N84-22676
Thermoset-thermoplastic aromatic polyamide containing N-propargyl groups
[NASA-CASE-LAR-12723-2] 13 p1962 N84-22746
Compliance monitoring of purgeable organics with mass spectrometry
[PB84-157916] 14 p2124 N84-23733
Indicators of hazard for polycyclic organic matter
[PB84-167493] 15 p2288 N84-24730
Protocol for the collection and analysis of volatile POHCs (Principal Organic Hazardous Constituents) using VOST (Volatile Organic Sampling Train)
[PB84-170042] 15 p2338 N84-25035
Evaluation of alkaline chemical addition and organic loading schemes for enhancement of secondary treatment and ancillary nutrient removal
[AD-A141178] 18 p2877 N84-28270
Organosilane polymers. 6: Branched polysilahydrocarbon precursors for silicon carbide
[AD-A141558] 19 p2999 N84-29003
Organosilane polymers, 8
[AD-A141627] 19 p2999 N84-29004
Evaluation of sampling methods for gaseous atmospheric samples
[PB84-190735] 20 p3151 N84-30012
Laboratory for Energy Related Health Research
[DE84-000529] 20 p3257 N84-30672
Hydrogen-bond energies of dimer formation and UV absorption spectra of mono-methyl substituted 2-pyridones 21 p3477 N84-32040
Optical and electrical properties of organic dye crystals
[DE84-014930] 22 p3666 N84-33240
USSR report: Chemistry
[JPRS-UCH-84-007] 24 p3867 N84-34508

ORGANIC LASERS
NT DYE LASERS

ORGANIC LIQUIDS
Fast, non-linear optical-scattering spectroscopy in shock-compressed organic liquids
[DE83-007548] 01 p0148 N84-10972

ORGANIC MATERIALS
NT PEAT
Irradiation effects on the mechanical properties of composite organic insulators
[DE83-014703] 01 p0032 N84-10202
Determining the homomorphils of polar substances by gas-liquid chromatography
[BLL-T6164/BG/LRS-(9022.048)] 01 p0036 N84-10229
Structural effects on hydrogen bonding properties of nitro compounds
[AD-A130617] 02 p0190 N84-11232
Dependence of evolution of toxic gases on burning conditions 04 p0514 N84-13377
Solvent effects on emission yield and lifetime for coumarin laser dyes. Requirements for a rotatory decay mechanism
[AD-A136358] 09 p1321 N84-18629
Stability and electrokinetic potential of silicon carbide suspensions in aqueous organic media
[NASA-TM-77428] 10 p1454 N84-19494
Influence of the environment on the application and drying quality of organic paints — aircraft structures
[SNIAS-832-551-102] 18 p2471 N84-25833

ORGANIC NITRATES
NT CELLULOSE NITRATE
NT PETN

ORGANIC PHOSPHORUS COMPOUNDS
NT PHOSPHAZENE
Synthesis of phosphorus-nitrogen polymers using Si-N-P reagents
[AD-A135224] 08 p1137 N84-17392
Polyphosphorus compounds containing phosphorus-nitrogen bonds
[AD-A137722] 11 p1628 N84-20655
Fire resistant polymers based on 1-((dialkoxyphosphonyl)methyl)-2,4- and -2,6-diaminobenzenes
[NASA-CASE-ARC-11512-1] 11 p1637 N84-20702
The effects of organophosphorus anticholinesterase compounds on brain glucose and energy metabolism
[AD-A137819] 11 p1695 N84-21058
GC and GC/MS (Gas Chromatography/Mass Spectrometry) analysis protocols
[AD-A141017] 18 p2811 N84-27843
Organophosphorus selective ion mobility spectrometer
[AD-D011010] 19 p3027 N84-29196
Synthesis and characterization of phosphorus-containing polyamides and copolyamides based on 1methyl]-2,4- and -2,6-diaminobenzenes
[NASA-TM-85877] 22 p3543 N84-32431
Cerebral metabolism and blood brain transport: Toxicity of organophosphorous compounds
[AD-A142705] 22 p3630 N84-33005

ORGANIC SEMICONDUCTORS
Phthalocyanine derivatives specifically designed for fabrication of organic semiconductor gas sensors
[AD-A130611] 01 p0083 N84-10540
Immobilization of biomolecules on semiconductor surfaces
[FOA-C-40178-C2(B2,A3)] 06 p0831 N84-15408
Solutions in synthetic and biological polymers
[DE84-007505] 15 p2302 N84-24817
Organic semiconductor vapor sensing method
[AD-D011070] 19 p3017 N84-29127

ORGANIC SOLIDS
A physical and chemical study of Titan: Atmosphere, clouds, and hazes 17 p2776 N84-27626
Theory of the electronic structure and optical properties of organic solids: Exciton effects
[AD-A142544] 20 p3149 N84-29993

ORGANIC SULFUR COMPOUNDS
Synthesis and structure of sulfur derivatives of a (methylene)phosphine
[AD-A141513] 19 p2984 N84-28909

ORGANIC TIN COMPOUNDS
Organotin piezo- and pyroelectric polymer films
[DE83-009903] 02 p0201 N84-11306

ORGANIC WASTES (FUEL CONVERSION)
Development of the L-1011 four-dimensional flight management system
[NASA-CR-3700] 09 p1254 N84-18183

ORGANISMS
Microbiological and biochemical studies towards optimization of substrate utilization by methanogenic bacteria
[PB84-179753] 16 p2474 N84-25859

ORGANIZATIONS
NT EUROPEAN SPACE AGENCY
NT NORTH ATLANTIC TREATY ORGANIZATION (NATO)
NT WORLD METEOROLOGICAL ORGANIZATION
Corporate Author Authority List, 1983
[PB83-156034] 02 p0302 N84-11980
Operation of the power information center: Performance of secretariat functions and information exchange activities in the advanced power field of the interagency advanced power group
[NASA-CR-174570] 02 p0302 N84-11981
National Science Foundation authorization, 1984 authorization
[GPO-21-280] 02 p0303 N84-11990
Source header list, supplement 1
[AD-A131800] 03 p0459 N84-13024
Incentives for controlling the performance of high technology and professional employees
[AD-A134074] 06 p0933 N84-16061
The national space program from the fifties into the eighties
[AD-A134799] 08 p1107 N84-17197
NASA control research overview 11 p1615 N84-20568
Calendar of selected aeronautical and space meetings
[AGARD-CAL-83/2] 11 p1761 N84-21490
Information processing and decisionmaking organizations: A mathematical description
[AD-P002878] 13 p1978 N84-22839
Project management: Evolution and influence
[AD-P002824] 13 p2061 N84-23369
USSR report: Science and technology policy
[JPRS-UST-84-007] 13 p2065 N84-23391
Social support and performance in complex organizations
[AD-A138898] 14 p2186 N84-24098
Models of purposive human organization: A comparative study
[AD-A138871] 14 p2247 N84-24491
Science in the European Economic Community: A self-assessment and a detailed plan of action
[AD-A139078] 14 p2247 N84-24492
Department of Housing and Urban Development-Independent Agencies Appropriation Bill, 1985 15 p2420 N84-25530
An investigation of organizational climate: Definition, measurement, and usefulness as a diagnostic technique 17 p2771 N84-27595
Evaluating organizational change through improved understanding of managerial schemata 17 p2771 N84-27596
An analysis of relationships among size, technology and structure in a contextually limited setting 17 p2771 N84-27597
Organizational structures, processes, and problems: A literature review and taxonomy
[AD-A140979] 18 p2943 N84-28665
A field study of Air Force organization structures
[AD-A142389] 20 p3312 N84-31035
Government acronyms and alphabetic organizational designations used in DTIC (Defense Technical Information Center)
[AD-A142700] 20 p3314 N84-31049
Polar research board report, 1983 and future plans
[PB84-194315] 21 p3433 N84-31779
One method of assessing the validity of organizational-systems modelling
[BLL-M-35605-(5828.4)] 21 p3506 N84-32222
Guide to programs, fiscal year 1984: Guide describing National Science Foundation programs and activities
[PB84-193226] 21 p3516 N84-32270
EPA (Environmental Protection Agency) journal holdings report, 1983
[PB84-194877] 21 p3520 N84-32304
Source hierarchy list. Volume 1: A through H
[AD-A143500] 22 p3674 N84-33291
Source hierarchy list. Volume 2: I through Z
[AD-A143501] 22 p3674 N84-33292
Powder metallurgy R and D organizations featured 23 p3707 N84-33502
Research salaries
[INPE-2971-NTE/209] 23 p3832 N84-34307
Managerial and organizational determinants of efficiency in research teams (social sciences)
[AD-A144153] 24 p3968 N84-35125

ORGANOMETALLIC COMPOUNDS
NT CHLOROPHYLLS
NT HEMOGLOBIN
NT ORGANIC TIN COMPOUNDS

Study of the interaction of organomagnesium compounds with the salts of heavy metals and the use of organomagnesium compounds and their complexes as initiators of polymerization
[BLL-M-28720-(5828.4)] 02 p0198 N84-11292
Organometallic epitaxy for GaAs/AlGaAs microwave transistors and integrated circuits
[AD-A133569] 06 p0923 N84-16001
Synthesis and chemistry of energetic metallotetrazadienes
[AD-A136269] 09 p1278 N84-18344
Alkane soluble transition metal complexes
[AD-A137252] 10 p1458 N84-19525
Fundamental organometallic reactions: Applications on the CYBER 205 10 p1560 N84-20221
Metallization with generic metallo-organic inks
12 p1840 N84-21996
Carboranylmethylene-substituted phosphazenes and polymers thereof
[NASA-CASE-ARC-11370-1] 13 p1962 N84-22750
Safety eye protection through use of fast acting optical switching
[AD-A139582] 13 p2023 N84-23120
Mechanistic studies related to the metal catalyzed reduction of carbon monoxide to hydrocarbons
[DE84-007963] 15 p2266 N84-24729
Stoichiometric CO reduction by supported metal carbonyls
[PB84-175025] 16 p2474 N84-25882
Laser induced polymerization reactions in solid propellant binders 21 p3373 N84-31403
Research on the use of metal-organic compounds as photoconductors in electrophotography
[BMFT-FB-T-84-112] 23 p3825 N84-34262
USSR report: Chemistry
[JPRS-UCH-84-007] 24 p3867 N84-34508
Methods for estimating physicochemical properties of inorganic chemicals of environmental concern
[AD-A144154] 24 p3917 N84-34799

ORGANOMETALLIC POLYMERS
A new approach to polymer chemistry: Organometallic and bioactive phosphazenes
[AD-A135429] 08 p1137 N84-17396
Hydrogen storage by molecular polyhydrides
[AD-A136431] 09 p1278 N84-18346
Characterization of organometallic polymers by chromatographic methods and nuclear magnetic resonance, part 2
[PB84-183599] 20 p3165 N84-30100

ORGANS
NT BLADDER
NT KIDNEYS
NT LIVER
NT LUNGS
NT PITUITARY GLAND
NT STOMACH
Dose in critical body organs in low Earth orbit
[NASA-TM-85778] 12 p1867 N84-22169

ORIFICES
Effects of a porous plug on orifice induced static pressure error 12 p1764 N84-21507

ORIGIN OF PLASMAS IN EARTH NEIGHBORHOOD
U OPEN PROJECT

ORIGINS
Preliminary discussion on the origin of Lei-gong-mo (teleites)
[NASA-TM-77328] 07 p1091 N84-17095
Geochemistry and origin of regional dolomites
[DE84-008257] 15 p2369 N84-25214

ORION AIRCRAFT
U P-3 AIRCRAFT

ORION CONSTELLATION
NT ORION NEBULA

ORION NEBULA
The October 1983 recurrence of the outburst of the Orion water maser source and its past history
[INPE-2985-PRE/444] 07 p1088 N84-17076
Normal galaxies 10 p1594 N84-20449
Shock waves and mass outflow in the Orion molecular cloud: Observations of far-infrared emission lines of carbon monoxide, hydroxyl and ammonia
13 p2071 N84-23423
The behaviour of the 3.28 micron dust feature in NGC 2024 16 p2571 N84-26498
183 GHz water line variation: An energetic outburst in orion KL
[NASA-TM-85956] 16 p2574 N84-26522
Detection of shocked atomic gas in the Kleinmann-Low nebula
[NASA-TM-85967] 16 p2574 N84-26523

ORNITHOPTER AIRCRAFT
U RESEARCH AIRCRAFT

ORNSTEIN-UHLENBECK PROCESS
Geometric bounds on the Ornstein-Uhlenbeck velocity process
[CTH-MATH-1983-17] 13 p2037 N84-23212

OROGRAPHIC CLOUDS
U CAP CLOUDS

OROGRAPHY
Field and laboratory studies of ice nucleation in winter orographic clouds 03 p0409 N84-12678
Investigation of the equatorial orographic-dynamic mechanism applying the bounded derivative method
12 p1854 N84-22078
Diagnosis of the GLAS climate model's stationary planetary waves using a linearized steady state model
12 p1856 N84-22095

ORRERIES
U ASTRONOMICAL MODELS

ORTHO HYDROGEN
An NMR study of solid hydrogen using packer solid echoes and rotating reference frame relaxation
06 p0922 N84-15992

ORTHOGONAL FUNCTIONS
NT WALSH FUNCTION
Discharge cell for optogalvanic spectroscopy having orthogonal relationship between the probe laser and discharge axis
[NASA-CASE-NPO-16271-1] 06 p0849 N84-15537
On orthogonal polynomials on a half line and the associated kernel polynomials
[MC-BW-182/83] 13 p2034 N84-23192
Matrix partitioning and EOF/principal component analysis of Antarctic Sea ice brightness temperatures
[NASA-TM-83916] 17 p2721 N84-27319
Empirical and dynamic modes in the CCS (California current system)
[AD-A141047] 18 p2892 N84-28357
On estimating a parameter and its score function
[CWI-MS-R8402] 19 p3091 N84-29632

ORTHOGONALITY
Geometries for roughness shapes in laminar flow
[NASA-CASE-LAR-13255-1] 03 p0320 N84-12092
Simulation of edge effects in electroanalytical experiments by orthogonal collocation. Part 4: Application to voltammetric experiments
[AD-A136968] 10 p1455 N84-19500
Bayes least squares linear regression is asymptotically full Bayes: Estimation of spectral densities
[AD-A138351] 12 p1897 N84-22352
Experimental mixed convection heat transfer from a large, vertical surface in a horizontal flow
[HMT-36] 14 p2146 N84-23864
Orthogonal schemes for structural optimization
[AD-P002954] 14 p2199 N84-24194
Investigation of three dimensional mesh generation with precise controls
[AD-A142246] 19 p3089 N84-29614
Nulling in array patterns with orthogonal analytic cancellation beams
[AD-A142719] 20 p3178 N84-30188
A numerical algorithm for chained aggregation and modified chained aggregation
[AD-A142394] 20 p3280 N84-30822
The least squares lattice algorithm: An alternate derivation with a discussion of numerical conditioning
[AD-A143439] 22 p3645 N84-33114
Pipelined orthogonal digital lattice filters
[AD-A143902] 23 p3818 N84-34208

ORTHOPEDICS
Conference Grant for 2nd World Congress on Biomaterials
[AD-A143129] 21 p3454 N84-31915

ORTHOPHOTOGRAPHY
Correlation calculation in stereoscopic image pairs for the automatic acquisition of digital land models, orthopictures and height line planes
[SER-C263] 16 p2505 N84-26079

ORTHOSTATIC TOLERANCE
Changes in cardiac output and orthostatic stability of cosmonauts 02 p0259 N84-11697
Normal human coronary circulation during postural tests and decompression of lower half of body
02 p0259 N84-11699
Dynamics of rheographic parameters of cerebral circulation and circulation in the extremities during active orthostatic test 02 p0260 N84-11700
Effect of redistribution of blood on severity of spatial position illusions in weightlessness
02 p0260 N84-11701
Energy metabolism enzymes in simulation of some spaceflight factors 02 p0260 N84-11704
G suit of bladderless type as a means of improving orthostatic stability after water immersion hypokinesia nd exposure to accelerations 07 p1045 N84-16775
Effect of sydnocarb on hemodynamics and redistribution of blood during functional tests following six-hour antiorthostatic hypokinesia 07 p1045 N84-16777
Development of limb volume measuring system
[NASA-CR-171789] 16 p2495 N84-26008
Cardiovascular reactions on orthostasis and weightlessness 17 p2744 N84-27424
USSR report: Space Biology and Aerospace Medicine, vol. 18, no. 3, May - June 1984
[JPRS-USB-84-005] 20 p3252 N84-30842
Effect of dihydroergotamine on human circulation during orthostatic tests 20 p3253 N84-30646
Circulatory changes in orthostatic position in the presence of hyperthermia 20 p3253 N84-30647
Human stomach motor and evacuatory functions during antiorthostatic hypokinesia 20 p3253 N84-30649

ORTHOTROPIC CYLINDERS
Stiffness properties for dynamic modeling of composite graphite-epoxy cylindrical orthotropic shells
06 p0932 N84-16054

ORTHOTROPIC PLATES
The use of affine transformations in the analysis of stability and vibrations of orthotropic plates
01 p0093 N84-10603
Bending of transversally loaded orthotropic rectangular and sector plates 03 p0387 N84-12520
Investigation of static and dynamic fracture of orthotropic media by photomechanics 06 p0863 N84-15625
Buckling of flat rectangular orthotropic plates - computer program. (Application to laminated composite plates)
[ESDU-81047] 07 p1014 N84-16580
Analytical results for postbuckling behavior of plates in compression and shear
[NASA-TM-85766] 14 p2157 N84-23922
The stress distribution in pin-loaded orthotropic plates
17 p2678 N84-27059

ORTHOTROPIC SHELLS
Stiffness properties for dynamic modeling of composite graphite-epoxy cylindrical orthotropic shells
06 p0932 N84-16054
An accurate theory and simple fourth order governing equations for orthotropic and composite cylindrical shells
[AD-A134532] 07 p1062 N84-16686
On the analysis of thick walled composite material cylindrical shells 15 p2311 N84-24867

ORTHOTROPISM
Buckling of rectangular specially orthotropic plates
[ESDU-80023] 07 p1014 N84-16577
An assessment of the accuracy of orthotropic photoelasticity
[NASA-CR-3773] 10 p1516 N84-19924
Stress decay in an orthotropic half-plane under self-equilibrating sinusoidal loading
[NASA-TM-85791] 17 p2679 N84-27066

OSCILLATING CYLINDERS
Effect of injection into boundary layer on flow of supersonic stream past oscillating cone
17 p2646 N84-26925
Note on the displacement effect in a spinning fluid
[AD-A141599] 19 p3024 N84-29175

OSCILLATING FLOW
Effects of unsteadiness on turbulent boundary layers
06 p0838 N84-15457
On the oscillatory flowfield in solid rocket motors
13 p1945 N84-22645
Effect of oscillations upon velocity distributions in simulated solid propellant flow environments
13 p1945 N84-22646
Hamiltonian representation of equations of hydrodynamics and its use in describing wave movements in currents with shear 18 p2865 N84-28190
Multiple grid methods for equations of the second kind with applications in fluid mechanics
[MATH-CENTRE-TRACTS-163]
21 p3474 N84-32018
Supersonic jet-cavity interaction pulsation
21 p3485 N84-32089
Oscillatory convection — three dimensional flow
[DFVLR-FB-84-14] 23 p3747 N84-33756

OSCILLATION DAMPERS
Measurement of rolling friction by a damped oscillator
[NASA-TP-2257] 04 p0543 N84-13577

OSCILLATIONS
NT ELECTRON OSCILLATIONS
NT HARMONIC OSCILLATION
NT MOLECULAR OSCILLATIONS
NT NONSTABILIZED OSCILLATION
NT PLASMA OSCILLATIONS
NT PRESSURE OSCILLATIONS
NT SELF OSCILLATION
NT SOLAR OSCILLATIONS
NT STABLE OSCILLATIONS
NT TRANSVERSE OSCILLATION
NT UNDAMPED OSCILLATIONS
NT WING OSCILLATIONS
Analysis of shuttle oscillation in the Mach Number = 1.7 to Mach Number = 1.0 range
01 p0021 N84-10132
Oscillations of a liquid in a rotating cylinder. Part 2: Spin-up
[AD-A129094] 01 p0077 N84-10505
Detection of solar gravity mode oscillations
[NASA-CR-174469] 01 p0165 N84-11086

The southern oscilation: Oceanic-atmospheric circulation changes and related rainfall anomalies
[INPE-2903-PRE/420] 02 p0253 N84-11656
Vestibulo-ocular reflex gain in man during active versus passive oscillation and the influence of voluntary gaze-control tasks
[AD-A132006] 03 p0415 N84-12717
On the effect of gyroscopic forces on the instability of certain fluid-elastic systems. Part 1: Definitions
[PUBL-340] 04 p0532 N84-13499
Determining stresses in the presence of nonlinearities in interplanar spacing versus Sin squared Psi
[AD-A132365] 04 p0612 N84-14041
The instability of oscillatory Ekman boundary-layer flow 05 p0710 N84-14655
The effects of external and self excitations on axisymmetric jet turbulence and noise 05 p0743 N84-14878
The effect of flow oscillations on cavity drag, and a technique for their control 06 p0780 N84-15109
Nonlinear acoustics instabilities in combustion chambers 06 p0802 N84-15230
An experimental study of steady and pulsating heat transfer in curved tubes 06 p0845 N84-15515
Effect of blade structural parameters on helicopter vibrational characteristics
[AD-A134547] 07 p0951 N84-16174
Ten years of Vela X-ray observations
[DE84-001302] 07 p1094 N84-17114
Algorithm for the detection and integration of highly oscillatory ordinary differential equations using a generalized unified modifiec divided difference representation
[DE84-003585] 08 p1222 N84-17978
Stability of the low degree 5 minute solar oscillations
[DE84-003786] 08 p1246 N84-18143
Nonlinear waves in nonequilibrium systems of the oscillatory type
[PRI-840] 09 p1312 N84-18570
Nonlinear orbits in free-electron lasers with a linear magnetic wiggler and a strong axial magnetic guide field
[AD-A135984] 09 p1323 N84-18642
El Nino and the southern oscillation: A scientific plan
[PB84-129733] 09 p1351 N84-18825
Phase conjugate optical resonator
[AD-A136071] 09 p1390 N84-19077
Constraints on stellar evolution from pulsations
[DE84-003787] 09 p1415 N84-19261
The effect of constant versus oscillatory rates on dynamic stability derivatives
[AD-A136913] 10 p1421 N84-19293
Interfacial tension between water and selected superheated liquids by quadrupole oscillations of drops
[AD-A136996] 10 p1455 N84-19502
Stable response of damped linear systems 10 p1507 N84-19861
Linear longitudinal oscillations in collisionless plasma diodes with thin sheaths. Part 1: Method
[AD-A136962] 10 p1585 N84-20388
Oscillation phenomena in the solar atmosphere and modulation by microwave radiation
[INPE-2743-TDL/134] 10 p1596 N84-20463
Space shuttle pilot-induced-oscillation research testing
[NASA-TM-86034] 11 p1615 N84-20566
Transmitted thrust on a large dual rail rocket sled system
[AD-A137151] 11 p1621 N84-20608
Oscillatory length dependent conductivity in periodic and almost periodic crystals
[DE84-004364] 11 p1745 N84-21384
Recent developments and future directions in dynamic stability research at NAE, Ottawa 14 p2097 N84-23582
An electrodynamic interpretation of virtual-cathode oscillations
[DE84-008001] 14 p2142 N84-23846
Observation of bistability in a Josephson device 14 p2235 N84-24409
Theory of multistability in Josephson junction devices 14 p2235 N84-24410
Nonlinear vibrations of a rubber support system constrained by a fixed surface 15 p2313 N84-24878
Doublet point method for calculations on oscillatory lifting surfaces. Part 2: Supersonic flow
[NAL-TR-785-PT-2] 16 p2439 N84-25649
Treatment of the discontinuity in the spin-up problem with impulsive start
[AD-A133882] 16 p2485 N84-25940
Equations of small oscillations for inertial navigation system taking into account Earth's ellipsoidality 17 p2643 N84-26909
Logarithmic decrement of oscillations of low-viscosity fluid rotating inside cylindrical vessel 17 p2645 N84-26921
Treatment of walking as controllable self-excited oscillations 17 p2649 N84-26942
Stability of periodic oscillations of almost axisymmetric satellite in plane of elliptical orbit 17 p2650 N84-26945
Discrepancies in kinematic parameters of earthquakes according to observations by regional and world networks of stations 17 p2702 N84-27213
Excitation of spheroidal oscillations in viscoelastic Earth 17 p2702 N84-27214
Oscillations of a reservoir with a fluid on the free surface of which a membrane is located
[AD-A142127] 19 p3024 N84-29179
Analysis of an integration method for rapidly oscillating integrands
[AD-A141731] 19 p3087 N84-29598
The 19th Moriond meeting: Summary talk
[DE84-010053] 20 p3319 N84-31072
Thermal oscillations downstream of an elbow in stratified pipe flow
[DE84-006550] 21 p3401 N84-31579
Temperature oscillations and ozone correlations in the lower stratosphere of Natal (6 deg S)
[INPE-3116-PRE/512] 21 p3443 N84-31844
Large-scale atmosphere-ocean coupling
[AD-A143162] 21 p3447 N84-31873
Research Reports of the Faculty of Engineering, no. 31
[DEC/1983/31] 21 p3476 N84-32034
Nonlinear dynamics in excitable nerve membranes 21 p3477 N84-32037
Electrical characteristics of metal-dielectric-semiconductor systems produced on epitaxial silicon structures with various dielectrics 21 p3479 N84-32052
Oscillations of elastic airplane due to wind gust 21 p3485 N84-32087
Non-integrability of planar oscillation equation for satellite in elliptical orbit 21 p3489 N84-32109
Experimental investigation of certain beam transport issues in a pulsed transmission line linear accelerator
[DE84-011191] 22 p3654 N84-33164
Onset of oscillations in symmetric convective states in a superfluid He-3-He-4 mixture
[DE84-009984] 22 p3666 N84-33244
Approximate methods for obtaining the complex natural electromagnetic oscillations of an object
[AD-A143913] 23 p3821 N84-34229
Flow-field measurements on an airfoil with an oscillating trailing-edge using holographic interferometry
[NASA-CR-166604] 24 p3852 N84-34430
Analysis of combustion oscillations in heterogeneous systems
[AD-A144436] 24 p3880 N84-34583

OSCILLATOR STRENGTHS
Direct measurement of a VUV transition oscillator strength in xenon
[DE84-008555] 18 p2941 N84-28655

OSCILLATORS
NT CATHODE RAY TUBES
NT CRYSTAL OSCILLATORS
NT GAS DISCHARGE TUBES
NT GYROSCOPIC PENDULUMS
NT HARMONIC OSCILLATORS
NT MAGNETRONS
NT MECHANICAL OSCILLATORS
NT MICROWAVE OSCILLATORS
NT MICROWAVE TUBES
NT MOLECULAR OSCILLATORS
NT PENDULUMS
NT RELAXATION OSCILLATORS
NT VOLTAGE CONTROLLED OSCILLATORS
Subharmonic buncher for the Los Alamos free-electron laser oscillator experiment
[DE83-015220] 03 p0380 N84-12474
The Los Alamos free-electron-laser oscillator experiment: Plans and present status
[DE83-017290] 03 p0382 N84-12485
Laser Resonator
[NASA-CASE-GSC-12565-1] 05 p0686 N84-14509
A periodically forced piecewise linear oscillator 06 p0856 N84-15577
Ladder supported ring bar circuit
[NASA-CASE-LEW-13570-1] 07 p0995 N84-16452
Switched-capacitor sampled-data networks with communication applications 08 p1142 N84-17429
The evolution of spontaneous and coherent radiation in the free electron laser oscillator
[AD-A134458] 08 p1165 N84-17583
Effect of measurement system phase response on shock spectrum computation 10 p1509 N84-19877
First operation of the Los Angeles free-electron laser oscillator
[DE84-006024] 11 p1664 N84-20856
Survival probability of non-linear oscillators subjected to broad-band random disturbances 15 p2312 N84-24875
Application of surface acoustic wave devices to radio telemetry
[NASA-CR-173597] 16 p2457 N84-25756
Coupling of current and frequency-modulated noise in Gunn oscillators 17 p2636 N84-26865
Study of VUV generation by coherent resonant frequency mixing in metal vapors
[AD-A140800] 17 p2663 N84-26990
Gyrotron backward-wave oscillator
[AD-A140908] 17 p2664 N84-26993
High power fast pulse lasers 17 p2673 N84-27033
Dielectric based submillimeter backward wave oscillator circuit
[NASA-CASE-LEW-13736-1] 18 p2831 N84-27974
Method of minimizing the aging rate of an oscillator
[AD-D011049] 19 p3018 N84-29135
Precision clock generators in Ta thin film technology
[BMFT-FB-T-84-073] 19 p3019 N84-29144
Technology development for tapered-wiggler free-electron lasers
[AD-A142319] 19 p3029 N84-29213
Free electron lasers and related topics
[DE84-011332] 20 p3193 N84-30277
Electron beam diagnostic for the Los Alamos free electron laser oscillator experiment
[DE84-011348] 20 p3193 N84-30278
The XUV/VUV free-electron laser oscillator
[DE84-011347] 20 p3193 N84-30279
Picosecond parametric optical oscillator with amplification of radiation from tunable semiconductor laser 21 p3487 N84-32097
Inductive transducer for displacement-to-frequency conversion 22 p3567 N84-32594
Stable asynchronous two-frequency oscillations in Gunn-effect diode with open resonator structure 22 p3570 N84-32611
Pulse driver for flux gate magnetometer
[AD-D011053] 22 p3596 N84-32774
Variable gain oven temperature control circuit
[AD-D011141] 22 p3597 N84-32778
Behavior of orbits of two coupled oscillators
[DE84-013379] 22 p3659 N84-33197
Tapered-wiggler free-electron laser oscillator program
[AD-A144053] 23 p3755 N84-33799
Dynamic analysis of evolutive conservative systems. Discussion of eigenmode crossings
[NASA-TM-77052] 24 p3860 N84-34462

OSCILLOSCOPES
Optical engineering at Los Alamos: A history
[DE83-009905] 12 p1908 N84-22431

OSMIUM
Fast turn-on osmium coated cathode
[AD-D011036] 19 p3018 N84-29134

OSMIUM COMPOUNDS
Karnovsky-osmium as a primary fixative for electron microscopy
[AD-A142671] 20 p3300 N84-30957

OSMOSIS
NT REVERSE OSMOSIS
Battery transport data
[DE84-001640] 04 p0526 N84-13462
Preliminary experiments with an electro-osmotic heat pipe laboratory model
[AD-B081344] 15 p2332 N84-25004
Influence of microwave electromagnetic radiation and certain hormones on osmotic resistance of mouse erythrocytes 20 p3259 N84-30662

OSMOTIC PRESSURE
U OSMOSIS

OSS-1 PAYLOAD
Development of baseline random vibration environment criteria for Shuttle pallet payload subsystems
[NASA-TM-86087] 14 p2113 N84-23666

OSTA-1 PAYLOAD
Payload missions integration
[NASA-CR-170902] 01 p0027 N84-10171
Spacelab: An international short-stay orbiting laboratory
[NASA-EP-165] 01 p0027 N84-10172

OSTA-2 PAYLOAD
Payload missions integration
[NASA-CR-170902] 01 p0027 N84-10171

OSTEOPOROSIS
Bone and calcium alterations during spaceflight 02 p0263 N84-11729
Bone changes in acutely immobilized patients: Results and perspectives 23 p3807 N84-34140
Current methods of evaluation of bone mineral content 23 p3807 N84-34142
Morphometric and biophysical study of bone tissue in immobilization-induced osteoporosis in the growing rat 23 p3809 N84-34152
Animal models of disuse osteoporosis 23 p3809 N84-34153

OTF
U OPTICAL TRANSFER FUNCTION
OTOLOGY
Physiological functioning of the ear and masking
19 p3069 N84-29468
OTS (ESA)
The OTS: Fifth year in orbit 03 p0342 N84-12221
OTS 2: Five years of thermal testing on a satellite in a geostationary orbit 10 p1446 N84-19446
A transportable satellite Earth station
[BBC-RD-1984/8] 22 p3571 N84-32614
OTTO CYCLE
Effect of low-proof fuel alcohol on crankcase oil dilution in an Otto-cycle engine
[DE83-016425] 01 p0091 N84-10594
Dissociation charts for use in spark ignition engine performance work (S.I. units)
[TT-8403] 18 p2850 N84-28095
OTV
U ORBIT TRANSFER VEHICLES
OUTCROPS
Field data observed during the geological excursion in the west-central region of the Sul-Riogrande Shield
[E84-10146] 16 p2508 N84-26094
OUTER SPACE TREATY
Pravda scores US reaction to draft treaty on use of force in space 09 p1265 N84-18259
Ballistic missile defense, space-based weapons, and the defense of the west
[AD-A140280] 16 p2454 N84-25738
OUTGASSING
High altitude aerodynamic tests with simulated heat-shield outgassing
[AD-A132078] 04 p0492 N84-13227
Vacuum outgassing of various materials
[DE84-001449] 04 p0495 N84-13247
Vacuum outgassing of various materials
[DE84-004812] 11 p1626 N84-20644
Atomic-oxygen stimulated outgassing (A0034)
15 p2271 N84-24635
Solar-array-materials passive LDEF experiment (A0171) 15 p2274 N84-24656
The application of the black paint CHEMGLAZE Z306
[ESA-PSS-01-725-ISSUE-1] 16 p2472 N84-25848
The cleaning of ECOSORB AN foam
[ESA-PSS-01-727-ISSUE-1] 16 p2473 N84-25849
The application of the thermal-control paint PYROLAC PSG 120FD
[ESA-PSS-01-733-ISSUE-1] 16 p2473 N84-25850
The cleaning of GUIDE-SPACE D96 tape
[ESA-PSS-01-732-ISSUE-1] 16 p2477 N84-25882
A thermal vacuum issue for the screening of space materials
[ESA-PSS-01-702-ISSUE-1] 16 p2500 N84-26043
Outgassing data for selecting spacecraft materials
[NASA-RP-1124] 17 p2617 N84-26751
LWIR signature from EXCEDE SPECTRAL
[AD-A144169] 24 p3660 N84-34463
Study of outgassing and decomposition of Space Shuttle heat protection tiles, fillers and adhesive
[NASA-CR-173974] 24 p3660 N84-34465
Contamination measurements during IUS thermal vacuum tests in a large space chamber --- IUS equipment support system 24 p3665 N84-34496
Hubble space telescope component qualification utilizing a residual gas analyzer
24 p3665 N84-34497
OUTLETS
NT VENTS
OUTLETS (GEOLOGY)
U ESTUARIES
OUTLIERS (STATISTICS)
A predictive view of the detection of influential observations in Gmanova
[CSIR-TR-83] 04 p0591 N84-13904
Seminar on mathematical models of geodetic/photogrammetric point determination with regard to outliers and systematic errors
[SER-A-98] 16 p2504 N84-26069
The Danish method: Experience and philosophy
16 p2505 N84-26078
OUTPUT
NT LASER OUTPUTS
NT MASER OUTPUTS
Central heat pump units: Problems of heat output control
[BMFT-FB-T-83-159] 05 p0681 N84-14480
Analysis of the output mode from 60 GHz, 200 kW pulsed and CW gyrotrons
[DE84-004586] 10 p1497 N84-19785
First 200 kW CW operation of a GHz gyrotron
[DE84-004573] 10 p1498 N84-19794
A circuit design for multiplexed digital correlation at 60 MHz
[AD-A139117] 14 p2142 N84-23842
Investigation and appreciation of optimal output feedback. Volume 1: A convergent algorithm for the stochastic infinite-time discrete optimal output feedback problem
[NASA-CR-3828] 21 p3344 N84-31217
Interrelation between parameters of M-type traveling wave tube 22 p3568 N84-32598
Verification of hourly forecasts of wind turbine power output
[PNL-4900] 22 p3616 N84-32914
OV-1 AIRCRAFT
An automated stall-speed warning system
[NASA-TM-84917] 11 p1607 N84-20520
OVENS
Temperature rise of handles and knobs
[BLL-OA-TRANS-3047-(6196.3)]
04 p0533 N84-13502
OVER-THE-HORIZON RADAR
HF over-the-horizon mapping of the Greenland icecap
06 p0868 N84-15654
Automatic electron density profiles from digital ionograms 06 p0869 N84-15659
OVERCAST
U CLOUD COVER
OVERPRESSURE
Reflected overpressure impulse on a finite structure
[AD-A137259] 11 p1653 N84-20792
Practice; criteria; provisions; mathematical descriptions: Examples
[PUBL-310] 16 p2487 N84-25951
NASTRAN analysis comparison to shock tube tests used to simulate nuclear overpressures
[AD-A142290] 20 p3202 N84-30337
OVERTONES
U HARMONICS
OVERVOLTAGE
Transient overvoltages on cable sheaths
[BLL-OA-TRANS-2620-(6196.3)]
01 p0069 N84-10448
Charge characteristics of Ni/Fe traction cells
[DE83-014205] 03 p0367 N84-12389
China builds first 6000kV type pulse voltage generator
[AD-A132564] 04 p0525 N84-13449
Electrical-shock prevention. Volume 4: Overhead-line contact fatalities
[PB84-102979] 08 p1207 N84-17868
Interruption of a dry-type transformer in no-load by a vacuum circuit-breaker
[EUT-83-E-141] 10 p1489 N84-19737
Fault detection and protection system for neutral beam generators on the Neutral Beam Engineering Test Facility (NBETF)
[DE84-006634] 12 p1903 N84-22394
Transient circuit overvoltages in Swedish manufacturing industry --- on AC power supply systems
[FOA-E-30002-E26] 23 p3744 N84-33735
OXALATES
On the mechanism of the biological conversion of citric acid. 6: Citrate-synthase is an acetyl-CoA enolase
[NRC/CNR-TT-2074] 07 p0965 N84-16256
OXIDATION
NT ELECTROCHEMICAL OXIDATION
NT PHOTOOXIDATION
Investigation of coherent anti-Stokes Raman scattering measurements in carbon ablation experiments
[AD-A130578] 01 p0036 N84-10230
The oxidation of porous metals
[BLL-TRANS-IZ.148-(5828.4)] 01 p0042 N84-10270
Thermal oxidative degradation reactions of perfluoroalkethers
[NASA-CR-168224] 02 p0189 N84-11229
Electrochemical generation of N2O5
[DE83-013377] 02 p0190 N84-11235
Influence of heat-treatment and physicochemical properties on the electrochemical oxidation of carbon blacks in phosphoric acid
[DE83-017744] 03 p0350 N84-12276
Breakaway corrosion in mixed-gas environments
[DE83-014704] 03 p0354 N84-12299
Formation of surface layers during oxidation of a Fe-Mn-Si alloy
[DE83-009495] 03 p0354 N84-12302
Relationships between strength, electrical conductivity, and density for oxidized PGX graphite
[DE83-016184] 04 p0507 N84-13325
Study of nitration and oxidation in oxynitrogen systems
[AD-A132742] 05 p0650 N84-14271
Atmospheric studies pertaining to sulfur in the environment
[DE84-001455] 05 p0701 N84-14597
Oxygen insufficiency and energy failure in brain: Uncoupling of oxidative phosphorylation at low oxygen concentration 05 p0714 N84-14681
Annealing of interstitial loops in arsenic implanted silicon
[DE84-000384] 05 p0755 N84-14953
Chemical kinetics modeling of engine knock: Preliminary results
[DE84-001236] 06 p0802 N84-15226
Trichite growth during oxidation of titanium and TA6V4 alloy by water vapor at high temperatures
[NASA-TM-76974] 06 p0805 N84-15248
Oxygen adsorption and initial oxidation of single crystal first row transition metal and alloy surfaces
06 p0816 N84-15316
Fabrication and properties of multilayer structures
[NASA-CR-174506] 06 p0922 N84-15997
Some aspects of mathematical and chemical modeling of complex chemical processes
[NASA-TM-77055] 07 p0969 N84-16279
Corrosion and oxidation of vanadium-base alloys
[DE84-003266] 09 p1285 N84-18393
Properties of carbon fibers with various coatings
[NASA-TM-77027] 10 p1464 N84-19583
Thin film technology of high-critical-temperature superconducting electronics
[AD-A136722] 10 p1589 N84-20411
Literature survey on oxidations and fatigue lives at elevated temperatures
[NASA-CR-174639] 11 p1633 N84-20674
Investigation into the role of sodium chloride deposited on oxide and metal substrates in the initiation of hot corrosion
[NASA-CR-173377] 11 p1633 N84-20676
Mechanisms of catalytic oxidation of hydrocarbons in a solid-electrolyte fuel cell 11 p1742 N84-21366
Viscometric changes of engine oils
[REPT-12] 12 p1800 N84-21738
High resolution TEM studies of defects near Si-SiO/sub 2 interface
[DE84-006562] 12 p1915 N84-22480
Solid carbon oxidation and radiation in exhaust plumes
13 p1941 N84-22623
Electrochemical and spectroelectrochemical studies of some coordination compounds in high oxidation states
[DE84-006637] 14 p2123 N84-23727
Method for strengthening boron fibers
[NASA-CASE-LEW-13826-2] 15 p2284 N84-24711
Formation and destruction of organic pollutants in thermal systems and flames 15 p2291 N84-24752
Experimental study and modeling of the kinetics of hydrocarbon combustion 15 p2292 N84-24754
Performance of thermal barrier coatings in high heat flux environments
[NASA-TM-83663] 15 p2295 N84-24772
Comparison of JFTOT (Jet Fuel Thermal Oxidation Tester) and absorbance methods for determining jet fuel thermal stability
[AD-A138673] 15 p2304 N84-24825
Synthesis and properties of phenylated aromatic heterocyclic imide and thiazole polymers containing pendant diphenylether and diphenylsulfide groups
[AD-A140341] 16 p2472 N84-25844
Elementary processes in the catalytic combustion of methane (mechanism, intermediates and controlling reactions)
[PB84-181965] 17 p2620 N84-26770
Thin film models of SMSI (Show Strong Metal-Support Interactions) catalysts: Pt on oxidized titanium
[AD-A140569] 17 p2767 N84-27572
Modeling degradation and failure of Ni-Cr-Al overlay coatings
[NASA-TM-83672] 18 p2813 N84-27858
In-situ measurements of alloy oxidation/corrosion/erosion using a video camera and proximity sensor with microcomputer control
[NASA-TM-83673] 18 p2813 N84-27859
Harwell research into the oxidation of metals: A summary
[AERE-E-11155] 18 p2816 N84-27881
Basic study of fuel storage stability
[AD-A142194] 19 p2966 N84-28799
Mechanism and kinetics of the oxidation of the iodide ion by oxygen
[BLL-CE-TRANS-8005-(9022.09)]
19 p2967 N84-28924
Quantum chemical study of methane oxidation species
[NASA-CR-173819] 19 p2967 N84-28928
Advanced high temperature materials for the energy efficient automotive Stirling engine
[NASA-TM-83659] 19 p2992 N84-28963
Interactions between erosion and corrosion of metals and alloys at elevated temperatures
[AD-A141410] 19 p2993 N84-28968
Oxidation-sulfidation behavior of Fe-Cr-Ni alloys containing additions of Zr, Nb, or Ti
[DE84-005411] 20 p3156 N84-30043
Application of transverse-section analytical electron microscopy to the study of oxidation of metal alloys
[DE84-006415] 20 p3157 N84-30049

High-temperature lubricants for minimum-cooled diesel engines
[AD-A142426] 20 p3162 N84-30078
Sulfidation- and oxidation-resistant ferritic stainless steel containing aluminum
[PB84-189521] 20 p3165 N84-30101
HgCdTe surface and defect study program
[AD-A142342] 20 p3308 N84-31010
Overlay coating degradation by simultaneous oxidation and coating/substrate interdiffusion
[NASA-TM-83738] 21 p3365 N84-31344
High-temperature cyclic oxidation data, volume 1
[NASA-TM-83665] 21 p3365 N84-31345
The wetting of ceramic opaque suspensions on oxidized alloy surfaces
[AD-A142899] 21 p3370 N84-31381
Analytical characterization of coatings and thin overlayers
[DE84-011902] 21 p3371 N84-31389
The selective epoxidation of ethylene catalyzed by silver: Mechanistic details revealed by single-crystal studies
[DE84-009867] 21 p3506 N84-32215
A comprehensive chemical kinetic reaction mechanism for the oxidation of n-butane
[DE84-005739] 22 p3549 N84-32467
Effect of alloy chemistry and exposure conditions on the oxidation of titanium
[NASA-TM-86295] 22 p3555 N84-32507
Physical techniques for profiling heterogeneous polymer degradation
[DE84-013807] 22 p3560 N84-32547
Electronically conductive ceramics for high temperature oxidizing environments
[DE84-014506] 22 p3561 N84-32549
Effect of cyclic changes in cultivation conditions of growth kinetics and physiological properties of yeasts 22 p3629 N84-32998
Research on oxidation by air and tempering of Raney nickel electrocatalysts for the H2 anodes of alkali combustion materials cells
[NASA-TM-77414] 23 p3713 N84-33535
The oxidation of hydrazine by nitric acid
[DE84-015063] 23 p3715 N84-33547
Overlay metallic-cermet alloy coating systems
[NASA-CASE-LEW-13639-1] 23 p3716 N84-33555
Oxidation characteristics of molybdenum-zirconium oxide cermets
[NASA-TM-77622] 23 p3723 N84-33594
LEO atomic oxygen effects on spacecraft materials: STS-5 results
[NASA-TM-86463] 24 p3867 N84-34506
Anodic electrochemical processing of amorphous alloys 24 p3870 N84-34527
Method and apparatus for determination of lubricant stability
[AD-D011193] 24 p3887 N84-34615

OXIDATION RESISTANCE

Fundamental research directed to advanced high temperature coating systems beyond the current state-of-the-art systems
[AD-A131618] 02 p0194 N84-11261
Oxidation of Inconel alloy MA754 at low oxidation potential
[DE83-017191] 04 p0501 N84-13288
Aircraft water-based solid film lubricants
[AD-A133732] 05 p0658 N84-14328
Optimization of SiC-based materials
[BMFT-FB-T-83-161] 05 p0661 N84-14343
Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] 07 p0967 N84-16286
High-temperature oxidation of alpha nickel-silicon. 1: Reaction kinetics; thermogravimetry
[MRL-R-887] 12 p1796 N84-21717
Thermal and oxidative stabilities of liquid lubricants 14 p2154 N84-23907
Improved oxidation sulfidation resistance of Fe-Cr-Ni alloys
[DE84-010066] 20 p3156 N84-30039
Platinum group coatings for refractory metals
[AD-A143792] 23 p3718 N84-33568
High temperature oxidation resistant coatings
[AD-A143633] 23 p3724 N84-33597

OXIDATION-REDUCTION REACTIONS

Mechanisms and kinetics of diphthalocyanine electrode processes
[AD-A131726] 03 p0349 N84-12270
New polyconjugated oxidation-reduction polymers, as well as a method and apparatus for electrochemical regeneration
[DE84-002813] 06 p0810 N84-15276
Electrochemistry of the sulfide-polysulfide couple
[DE84-005881] 11 p1629 N84-20661
Electron-transfer kinetics of redox centers anchored to metal surfaces: Weak- versus strong-overlap reaction pathways
[AD-A139043] 13 p1956 N84-22718
Surface-enhanced Raman spectroscopy of electrochemically characterized interfaces. Relations between Raman scattering intensity and surface coverage for simple anionic adsorbates
[AD-A139054] 13 p1957 N84-22721
Utility of surface reaction entropies for examining reactant-solvent interactions at electrochemical interfaces. Ferricinium-ferrocene attached to platinum electrodes
[AD-A139055] 13 p1957 N84-22722
Redox thermodynamics of surface-bound reactants. Illustrative behavior of Cobalt(3)/(2) macrobicyclic cage complexes
[AD-A139058] 13 p1957 N84-22723
Electrochemical polymerization of pyrrole and electrochemistry of polypyrrole films in ambient temperature molten salts
[AD-A139174] 14 p2122 N84-23716
Increased electrochemical window in ambient temperature neutral ionic liquids
[AD-A139194] 14 p2122 N84-23717
Oxidative enzyme activity in rat blood plasma and subcellular fraction of liver following flight aboard Cosmos-936 biosatellite 15 p2377 N84-25265
Singlet oxygen generator for a solar powered chemically pumped iodine laser
[NASA-CR-172364] 19 p2982 N84-28899
Reactions of metal-metal multiple bonds. Part 14: Synthesis and characterization of triangulo-W3 and Mo2W-oxo capped alkoxide clusters. Comproportionation of M-M triple bonds, sigma(2)pi(4) and d(o) Metal-oxo groups: M triple bond M + M triple bond O yields M3(micron 3-O)
[AD-A141067] 19 p2987 N84-28930
Solvent, ligand, and ionic charge effects on reaction entropies for simple transition-metal redox couples
[AD-A142374] 20 p3147 N84-29984
The reliability of standard rate constants for rapid electrochemical reactions
[AD-A142445] 20 p3148 N84-29989
Review of flow battery testing at Sandia
[DE84-011186] 22 p3589 N84-32734

OXIDE FILMS

A critical study of the role of the surface oxide layer in titanium bonding
[NASA-CR-174531] 01 p0041 N84-10266
Sputtered C-axis inclined piezoelectric films and shear-wave resonators
[DE83-017253] 03 p0455 N84-12997
The localized corrosion of aluminum alloys: A review
[AD-A132582] 04 p0498 N84-13269
Surface coating systems for copper and copper alloys 06 p0815 N84-15311
Protective oxide films
[DE84-004088] 10 p1461 N84-19543
Ion-beam-textured and coated surfaces experiment (S1003) 15 p2273 N84-24650
Characterization of aluminum oxide layers
[MBB-BB-549-83-O] 16 p2561 N84-26433
Features of behaviour of gas bubbles in molten oxide films during enamelling
[BLL-M-35672-(5828.4)] 22 p3553 N84-32496
A new solar cell design for improved open circuit voltage and high efficiency
[NASA-CASE-NPO-16126-1] 22 p3616 N84-32911
Improved thermal barrier coating system
[NASA-CASE-LEW-14057-1] 23 p3724 N84-33595

OXIDES

NT ALUMINUM OXIDES
NT ANHYDRIDES
NT BERYLLIUM OXIDES
NT BISMUTH OXIDES
NT CALCIUM OXIDES
NT CARBON DIOXIDE
NT CARBON MONOXIDE
NT CERIUM OXIDES
NT CHROMITES
NT CHROMIUM OXIDES
NT COBALT OXIDES
NT COPPER OXIDES
NT HAFNIUM OXIDES
NT HYDROGEN PEROXIDE
NT IRON OXIDES
NT LANTHANUM OXIDES
NT LEAD OXIDES
NT LITHIUM OXIDES
NT MAGNESIUM OXIDES
NT MAGNETITE
NT MANGANESE OXIDES
NT METAL OXIDES
NT MIXED OXIDES
NT MOLYBDENUM OXIDES
NT NICKEL OXIDES
NT NITRIC OXIDE
NT NITROGEN DIOXIDE
NT NITROGEN OXIDES
NT NITROGEN TETROXIDE
NT NITROUS OXIDES
NT PERICLASE
NT PEROXIDES
NT PLUTONIUM OXIDES
NT PYROXENES
NT QUARTZ
NT RUTILE
NT SAPPHIRE
NT SILICON DIOXIDE
NT SILICON OXIDES
NT SILVER OXIDES
NT SULFUR DIOXIDES
NT SULFUR OXIDES
NT TITANIUM OXIDES
NT TUNGSTEN OXIDES
NT URANIUM OXIDES
NT VANADIUM OXIDES
NT YTTRIUM OXIDES
NT ZINC OXIDES
NT ZIRCONIUM OXIDES
Durable copper polyimide adhesive bonds
[AD-A130221] 01 p0049 N84-10319
Solid-oxide fuel cells
[DE83-017925] 04 p0527 N84-13469
Method and apparatus for the rapid determination of gases, oxygen in particular, and of the combined forms in which they are present in metals
[BLL-OA-TRANS-3127-(6196.3)] 08 p1129 N84-17340
Recent trends and theoretical background in sintering of silicon carbide ceramics
[NASA-TM-77378] 11 p1636 N84-20698
Proceedings of the Conference on High Temperature Solid Oxide electrolytes. Volume 1: Anion conductors
[BNL-51728-VOL-1] 11 p1736 N84-21342
Cell performance and life characteristics of solid oxide electrolyte fuel cells 11 p1739 N84-21343
Critical issues in solid oxide fuel cell development 11 p1739 N84-21344
Proton transport in beta alumina 11 p1739 N84-21345
Vapor deposition of stabilized zirconium oxide electrolyte and lanthanum chromite interconnection for multiple cell fabrication 11 p1739 N84-21346
Microstructure-property relationship for porous CaO stabilized ZrO2 support tubes 11 p1739 N84-21347
High temperature electrolysis of water vapor. Status and perspectives of the German research and development activities 11 p1739 N84-21349
High temperature oxide electrolytes for the splitting of water. The ROC process 11 p1740 N84-21351
High temperature solid oxide electrolytes for research in metallurgical processes and steelmaking 11 p1740 N84-21352
Energetics of oxygen ion transport in fluorite, perovskite and other oxide structures 11 p1740 N84-21354
Some non-electrochemical requirements for air electrode materials of high temperature solid electrolyte fuel cells 11 p1742 N84-21363
A study of adherent oxide formation
[AD-A139505] 14 p2123 N84-23722
An investigation of the structure and high temperature mechanical properties of oxide dispersion strengthened alloys
[AD-A139359] 14 p2128 N84-23756
Reactions of metal-metal multiple bonds. Part 14: Synthesis and characterization of triangulo-W3 and Mo2W-oxo capped alkoxide clusters. Comproportionation of M-M triple bonds, sigma(2)pi(4) and d(o) Metal-oxo groups: M triple bond M + M triple bond O yields M3(micron 3-O)
[AD-A141067] 19 p2987 N84-28930
Cold working and annealing effects on the creep and rupture resistance of the oxide-dispersion-strengthened alloy MA754
[AD-A141438] 19 p2993 N84-28969
Formation of dispersions of rare earth oxides in titanium alloys using rapid solidification processing
[DE84-008664] 20 p3157 N84-30048
Fatigue crack growth behavior of an oxide dispersion strengthened MA956 alloy
[AD-A142059] 21 p3421 N84-31702
Oxide dispersion strengthened alloys 23 p3703 N84-33472
Solid oxide fuel cell having monolithic core
[DE84-014659] 23 p3743 N84-33728

OXIDIZERS

NT LIQUID OXYGEN
NT PHOTOCHEMICAL OXIDANTS
NT ROCKET OXIDIZERS
Combustion at the interface of an oxidizer-fuel slab system 06 p0800 N84-15215

Potassium perchlorate reaction with pyrotechnic fuels
[DE84-002840] 08 p1140 N84-17413
Investigation of organic oxidizers for high performance low flame temperature gas generator applications
13 p1950 N84-22676
Inorganic halogen oxidizers
[AD-A139127] 14 p2121 N84-23714
Iron nitrate and MON-3 nitrogen tetroxide
20 p3136 N84-29909

OXYACETYLENE
Ionic mechanisms of carbon formation in flames
[AD-A137079] 10 p1455 N84-19505

OXYALKYLATION
U ALKYLATION

OXYGEN
NT HIGH PRESSURE OXYGEN
NT LIQUID OXYGEN
NT OXYGEN ATOMS
NT OXYGEN IONS
NT OXYGEN ISOTOPES
NT OXYGEN PLASMA
NT OZONE
Special features of electrochemical determination of non-uniformly distributed oxygen in melts
[BLL-M-35105-(5828.4)] 01 p0036 N84-10226
Ignition delay times of propene oxygen argon mixtures
[AD-A130464] 01 p0037 N84-10232
Features of determination of low concentrations of oxygen in steel by the electrochemical method
[BLL-M-35212-(5828.4)] 01 p0041 N84-10262
Effect of oxygen monolayer coverages on titanium sputtering yields as determined by simultaneous laser fluorescence and Auger measurements
[DE83-014716] 01 p0046 N84-10296
Proposed fast-response oxygen monitoring and control system for the Langley 8-foot high-temperature tunnel
[NASA-TP-2218] 02 p0223 N84-11460
Temporal variations of the anomalous oxygen component 03 p0471 N84-13099
Survey of water quality and flow in Maryland coastal zone streams: A data report
[PB83-248375] 04 p0556 N84-13860
Early mechanisms in radiation-induced biological damage
[DE84-001511] 04 p0572 N84-13765
Elementary reactions of NH2 radicals in the gas, phase 3
[MPIS-2/1983] 05 p0652 N84-14285
An evaluation of automated control of the oxyfuel cutting process for M1 vehicle fabrication
[AD-A134073] 05 p0688 N84-14520
High pressure properties of solid alpha oxygen
05 p0757 N84-14963
Atomic oxygen effects on materials
06 p0929 N84-16036
Development and demonstration of a spiral-wound thin-film composite membrane system for the economical production of oxygen-enriched air, phases 1, 2 and 3
[DE84-002916] 07 p0972 N84-16298
Chain reaction mechanism for I2 dissociation in the O2 (1 delta)-I atom laser
[AD-A134370] 07 p1010 N84-16548
Stratospheric determination of effective photodissociation cross sections for molecular oxygen: 191-204 nm
[AD-A134168] 07 p1034 N84-16706
Low-energy proton stopping power of N2, O2 and water vapor and deviations from Bragg's rule
07 p1071 N84-16956
Species-specific densities of states of ga and as in the chemisorption of oxygen on GaAs(110)
[AD-A134416] 07 p1080 N84-17024
Chemical generation and deactivation of oxygen singlet delta
[AD-A135392] 08 p1124 N84-17308
Static feed water electrolysis subsystem testing and component development
[NASA-CR-166539] 08 p1205 N84-17856
Electrocatalysis of oxygen using water soluble metal porphyrins and chemically modified porphyrin electrodes
[AD-A136062] 09 p1280 N84-18358
Preliminary assessment of a rotary detonation engine concept
[AD-A137492] 10 p1431 N84-19354
Vertical sections of oxygen, phosphate, silicate, nitrate and nitrite from the NORPAX Shuttle Experiment
[PB84-138759] 11 p1692 N84-21036
High temperature oxide electrolytes for the splitting of water. The ROC process 11 p1740 N84-21351
Obtaining titanium carbide powder from titanium shavings 12 p1785 N84-21645
Simulation of the ignition of a mixture of hydrogen and oxygen
[PML-1983-34] 12 p1790 N84-21676
Effect of O2 on double-base propellant ignition
13 p1949 N84-22673
Separator development and testing of nickel-hydrogen cells
[NASA-TM-83653] 13 p1955 N84-22712
Mass spectroscopic investigations of the reactions of O2 (1 deltag) with furan, 2-methylfuran, and 2,5-dimethylfuran in the gas phase
[MPIS-7/1983] 13 p1958 N84-22731
Electronically excited products in the reactions of O(3PJ) atoms with halogenated ethenes
[MPIS-8/1983] 13 p2041 N84-23244
Primary patterns of electronically excited molecules in the gas phase 2
[MPIS-9/1983] 13 p2041 N84-23245
Far-IR spectroscopy of the galactic center: Neutral and ionized gas in the central 10 pc of the galaxy
[NASA-CR-166510] 13 p2070 N84-23411
Photosynthetic water splitting, phase 1
[DE84-006847] 14 p2124 N84-23729
Effect of sulfuric acid, oxygen, and hydrogen in high-temperature water on stress corrosion cracking of sensitized Type 304 stainless steel
[DE84-007276] 15 p2298 N84-24795
New technique for calibrating hydrocarbon gas flowmeters
[NASA-TM-85792] 16 p2495 N84-26007
The effects of nonphysiological oxygen supply on the organism 17 p2745 N84-27428
Primary processes of electronically excited molecules in vapor phase, part 3
[MPIS-12/1983] 18 p2930 N84-28582
Ion makeup in upper atmosphere affected by source of X-ray radiation 19 p2973 N84-28850
Oxygen diffusion in alpha-Al2O3
[NASA-TM-83622] 19 p2997 N84-28990
Influence of oxygen on defect production in electron-irradiated, boron-doped silicon
19 p3045 N84-29320
Nature of polarized vibronic sidebands of biexciton absorption in Alpha-oxygen 20 p3289 N84-30684
Disappearance rates of C2(a 3 Pi u) and C2(X 1 Sigma g +) with O2 over the temperature range 298-1300 deg K 21 p3373 N84-31405
Ion-molecule reactions and plasma parameters of positive column in oxygen glow discharge
21 p3476 N84-32036
Atomic carbon in the Venus thermosphere: Observations and theory 21 p3525 N84-32332
A system for controlling the oxygen content of a gas produced by combustion
[NASA-CASE-LAR-13257-1] 22 p3546 N84-32447
Oxygen affinity of hemoglobin, 3 hours after passive increase in altitude from 400 to 1800 metres
[RAE-TRANS-2118] 22 p3630 N84-33004
Combustion chemistry of vibrationally excited oxygen
[AD-A143791] 23 p3714 N84-33540
Modeling and control of an on-board oxygen generation system 23 p3811 N84-34164
Introduction to simulation of upper atmosphere oxygen satellite exposed to atomic oxygen in low Earth orbit
24 p3863 N84-34479

OXYGEN AFTERGLOW
The night airglow O2(1-Sigma) atmospheric band at 8645A and the rotational temperature observed at 23 deg S
[INPE-3021-PRE/459] 12 p1846 N84-22034

OXYGEN ATOMS
Atomic-oxygen stimulated outgassing (A0034)
15 p2271 N84-24635
Interaction of atomic oxygen with solid surfaces at orbital altitudes (A0114) 15 p2271 N84-24636
Ion makeup in upper atmosphere affected by source of X-ray radiation 19 p2973 N84-28850
A numerical study of artificial electron aurora experiments
[ISAS-611] 20 p3240 N84-30568
Absolute photoionization cross sections of atomic oxygen
[NASA-CR-173873] 21 p3492 N84-32130
Hypervelocity supersonic nozzle beam source of atomic oxygen 24 p3863 N84-34480
A facility for investigating interactions of energetic atomic oxygen with solids 24 p3863 N84-34481
An atomic oxygen facility for studying polymer materials for spacecraft applications 24 p3863 N84-34482
A low Earth orbit molecular beam space simulation facility 24 p3863 N84-34483
The energy dependence and surface morphology of Kapton (trademark) degradation under atomic oxygen bombardment 24 p3863 N84-34484
Atomic beam system for laboratory simulation of upper atmosphere oxygen atom impact on STS surfaces
24 p3863 N84-34485
LEO atomic oxygen effects on spacecraft materials: STS-5 results
[NASA-TM-86463] 24 p3867 N84-34506

OXYGEN BREATHING
Functional state and work capacity of man when breathing oxygen and hypoxic mixtures under positive pressure 20 p3254 N84-30654

OXYGEN CONSUMPTION
Differentiated ratings of perceived exertion and selected physiological responses during prolonged upper and lower body exercise
[AD-A134066] 06 p0887 N84-15769
Effect of sydnocarb on hemodynamics and redistribution of blood during functional tests following six-hour antiorthostatic hypokinesia 07 p1045 N84-16777
The exercise electrocardiogram
11 p1699 N84-21085
Cardiac swimming and a traditional rehabilitation program of bike-walk-jog; a comparison of maximal oxygen consumption and strength 12 p1864 N84-22148
Immediate effects of hyperbaric oxygenation on body oxygen supply 21 p3455 N84-31923
Cerebral metabolism and blood brain transport: Toxicity of organophosphorous compounds
[AD-A142705] 22 p3630 N84-33005

OXYGEN DEFICIENCY
U HYPOXIA

OXYGEN IONS
The Role of Oxygen Radicals in Biology and Medicine
[AD-A133053] 05 p0712 N84-14663
Ionic mechanisms of carbon formation in flames
[AD-A137079] 10 p1455 N84-19505
Energetics of oxygen ion transport in fluorite, perovskite and other oxide structures 11 p1740 N84-21354
Oxide bond energies for the calibration of matrix effects in secondary ion mass spectrometry
[AD-A139633] 15 p2413 N84-25483
Low energy (130 eV) oxygen ions at the geosynchronous orbit during the CDAW-6 event of March 22, 1979
[IFSI-83-17] 18 p2881 N84-28291

OXYGEN ISOTOPES
Ablation effects in oxygen-lead fragmentation at 2.1 GeV/nucleon
[NASA-TM-85704] 07 p1074 N84-16977

OXYGEN MASKS
The objective evaluation of aircrew protective breathing equipment. 5: Mask/goggles combinations for female crewmembers
[AD-A134912] 08 p1201 N84-17830

OXYGEN METABOLISM
Respiration of roots response to low O2 stress
[DE83-017495] 04 p0572 N84-13766
Increased metabolism and dead space as components of ventilation at high altitude
[AD-A130627] 06 p0887 N84-15766
Ventilation and ventilatory control in high altitude pulmonary edema and acute mountain sickness
[AD-A135941] 10 p1548 N84-20145
Oxidative enzyme activity in rat blood plasma and subcellular fraction of liver following flight aboard Cosmos-936 biosatellite 15 p2377 N84-25265
Physical performance tests as predictors of task performance
[AD-P003257] 18 p2905 N84-28424
Aquatic plant control research program. Effects of endothall treatment on phosphorus concentration and community metabolism of aquatic communities
[AD-A141830] 19 p3052 N84-29370
Immediate effects of hyperbaric oxygenation on body oxygen supply 21 p3455 N84-31923

OXYGEN PLASMA
Effects of combined ultraviolet and oxygen plasma environment on spacecraft thermal control materials — space shuttle payloads 10 p1446 N84-19449

OXYGEN PRODUCTION
Oxygen production by the molten process
[DE83-012847] 02 p0190 N84-11237
Immobilized chloroplast-ferredoxin-hydrogenase system for the simultaneous photoproduction of hydrogen and oxygen
[DE83-015703] 02 p0205 N84-11333
Metal oxide anodes for the photoelectrochemical generation of oxygen
[DE84-004168] 10 p1456 N84-19511
Reassessment of the OHZ process for the thermochemical decomposition of water
[DE84-007806] 16 p2812 N84-27849

OXYGEN RECOMBINATION
Oxygen recombination in individual pressure vessel nickel-hydrogen batteries
[NASA-CASE-LEW-13822-1] 19 p3011 N84-29084

OXYGEN SUPPLY EQUIPMENT
NT OXYGEN MASKS
Chemical generation and deactivation of oxygen singlet delta
[AD-A135392] 08 p1124 N84-17308

In-flight evaluation of 2 molecular sieve oxygen concentration systems in US Army aircraft (JUH-1H and JU-21G)
[AD-A140634] 17 p2748 N84-27443
Evaluation of proposed human subject certification tests for self-contained breathing apparatus
[PB84-172212] 17 p2748 N84-27447
OXYGEN SYSTEMS
U OXYGEN SUPPLY EQUIPMENT
OXYGEN TOXICITY
U HYPEROXIA
OXYGENATION
Development of standard procedures for evaluating oxygen transfer devices
[PB84-147438] 12 p1846 N84-22032
Immediate effects of hyperbaric oxygenation on body oxygen supply 21 p3455 N84-31923
OXYNITRIDES
Joining silicon nitride based ceramics: A technical assessment
[DE84-011356] 20 p3164 N84-30092
OZONE
Ozone survey of C-9A
[AD-A130632] 01 p0009 N84-10052
Eddy-correlation measurements of the resistance to vertical transport of ozone
[DE83-015363] 02 p0244 N84-11600
Numerical simulation of global ozone transport during stratospheric sudden warming 02 p0245 N84-11605
Influence of nitrogen dioxide on xenobiotic metabolism in animals
[PB83-239723] 02 p0265 N84-11743
Ozone toxicity effects consequent to prolonged, high intensity exercise
[PB83-237368] 02 p0267 N84-11755
Respiratory effects on population from low-level exposures to ozone
[PB83-246132] 04 p0573 N84-13774
Techniques to extend ozonesonde temperature data to the mesopause
[DE84-002749] 05 p0705 N84-14623
FGGE/SBUV tape specification and shipping letter description
[NASA-CR-170482] 06 p0934 N84-16071
Maximum entropy spectral analysis of total ozone
[INPE-2979-PRE/441] 07 p1032 N84-16684
Remote measurements of ozone, water vapor and liquid water content, and vertical profiles of temperature in the lower troposphere
[NASA-CR-173208] 07 p1033 N84-16704
User's guide for SBUV/TOMS ozone derivative products
[NASA-RP-1116] 07 p1036 N84-16720
Ozone reactions in aqueous solutions: A bibliography
[PB84-109883] 08 p1127 N84-17325
Air pollution effects on terrestrial ecosystems
[PB84-128313] 08 p1184 N84-17712
Tabulations of ambient ozone data obtained by GASP (Global Air Sampling Program) airliners, March 1975 to July 1979
[NASA-TM-82742] 09 p1348 N84-18806
SMM-UVSP ozone profile inversion programs
[NASA-CR-175216] 10 p1533 N84-20042
Chemistry and application of ozone and ozone/UV light for water reuse-2
[PB84-140557] 11 p1630 N84-20664
FORAST: A regional scale study of forest responses to air pollutants
[DE84-003269] 11 p1675 N84-20933
The study of a mass spectrometer-beam system for measurements of ozone and other minor constituents of the stratosphere 11 p1677 N84-20942
Pulsed generation of singlet delta oxygen (O2(1 delta)) via ozone photolysis
[AD-A138195] 12 p1792 N84-21684
Regional correlation between TOMS total ozone from NIMBUS-7 satellite and geopotential height from the GLAS analysis 12 p1851 N84-22056
Facilities for meteorological research at NASA Goddard/Wallops Flight Facility
[NASA-TM-84422] 15 p2371 N84-25223
Present-day status of investigations of anthropogenic influence on atmospheric ozone 17 p2697 N84-27180
Stratospheric concentration of nitric acid, ozone and sulphurous carbonyl: Measurement of nitric acid absorption in the Q branch of the v4 band as a function of temperature
[AD-B071596] 17 p2724 N84-27336
Tabulations of ozonesonde data, 1963 - 1980
[NASA-CR-174631] 17 p2733 N84-27375
Socialist-bloc Conference on Climate Forecasting 18 p2856 N84-28134
Impact of vegetative hydrocarbon emissions on ambient ozone levels and control program development
[DE84-008515] 18 p2878 N84-28273
Operation and maintenance of selected ozone and ultraviolet disinfection systems
[PB84-180124] 20 p3265 N84-30719
A modified standard method for the determination of ozone residual concentration by spectrophotometry
[PB84-204684] 21 p3363 N84-31335
US EPA (Environmental Protection Agency) regional oxidant model, background and overview
[PB84-201680] 21 p3437 N84-31808
Temperature oscillations and ozone correlations in the lower stratosphere of Natal (6 deg S)
[INPE-3116-PRE/512] 21 p3443 N84-31844
Climatology of ozone at altitudes from 19,000 at 50,000 feet based on combined GASP and ozonesonde data
[NASA-TP-2303] 21 p3446 N84-31865
Geophysical monitoring for climatic change Number 11,
[PB84-181841] 21 p3449 N84-31883
Dosimetry of ozone and nitrogen dioxide in man and animals
[PB84-195304] 22 p3631 N84-33009
Integration of species sensitivity and dosimetry data in the extrapolation of ozone and nitrogen dioxide health data from animals to man
[PB84-195312] 22 p3631 N84-33010
Barreira do Inferno: Five years of ozone research
[INPE-2974-PRE/437] 23 p3796 N84-34073
The high altitude pollution program (1976 - 1982)
[AD-A144390] 24 p3917 N84-34800
RECOZ data reduction and analysis: Programs and procedures
[NASA-TM-87365] 24 p3944 N84-34973
OZONOMETRY
Simultaneous cabin and ambient ozone measurements on two Boeing 747 airplanes. Volume 2: January to October 1978
[NASA-TM-81733] 12 p1917 N84-22488
Assessment of ozone as a surrogate for other products of atmospheric photochemical reactions
[PB84-155852] 14 p2177 N84-24042
Design of a precision etalon position control system for a cryogenic spectrometer 15 p2348 N84-25093
Causes and effects of changes in stratospheric ozone: Update 1983
[PB84-176072] 17 p2729 N84-27368

P

P WAVES
Effects of rigid inclusions on wave propagation
[AD-A131366] 02 p0209 N84-11366
Inverse torsional Eigenvalue problems — reconstruct the S-wave velocity of the Earth
[DE84-002568] 05 p0704 N84-14621
Short period P-wave attenuation in the middle and lower mantle of the Earth 05 p0706 N84-14633
P-I-N DIODES
U DIODES
U P-I-N JUNCTIONS
P-I-N JUNCTIONS
Development and fabrication of a high current, fast recovery power diode
[NASA-CR-168196] 04 p0524 N84-13443
P-I-N Diode Switches Project
[INPE-3171-PRE/541] 21 p3391 N84-31516
P-N JUNCTIONS
Ion-implanted strained-layer superlattice device
[DE84-000101] 05 p0754 N84-14949
Modeling and testing for second breakdown phenomena
[DE84-002470] 07 p0994 N84-16444
Deep diode arrays for X-ray detection
[NASA-CR-175178] 09 p1306 N84-18537
Comparative measurement of capacitance in solar cells for space and terrestrial applications 17 p2662 N84-26984
Microcrystalline silicon growth for heterojunction solar cells
[NASA-CR-173750] 18 p2869 N84-28216
Defect studies in one MeV electron irradiated GaAs and in Al/sub x Ga/sub 1-x As P-N junction solar cells 19 p3045 N84-29321
Surface and allied studies in silicon solar cells
[NASA-CR-173761] 19 p3049 N84-29351
Process research of non-CZ silicon material
[NASA-CR-173759] 19 p3050 N84-29353
A new solar cell design for improved open circuit voltage and high efficiency
[NASA-CASE-NPO-16126-1] 22 p3616 N84-32911
P-TYPE SEMICONDUCTORS
Characterization of p-type CdTe electrodes in acetonitrile/electrolyte solutions. Nearly ideal behavior from reductive surface pretreatments
[AD-A130764] 01 p0071 N84-10466
Reverse bias second breakdown in power switching transistors
[AD-A130145] 02 p0213 N84-11391
Photoluminescence excitation of the 1.441-eV cation antisite emission in p-type GaAs
[AD-A134332] 07 p1080 N84-17021
Development of a planar heterojunction bipolar transistor for very high speed logic
[AD-A136341] 09 p1306 N84-18539
Growth of HgCdTe by modified molecular beam epitaxy
[AD-A137243] 10 p1586 N84-20407
A study of heterojunction solar cells based on n-CdS and several P-type semiconductors 11 p1672 N84-20914
Electrical, luminescence and SIMS (Secondary ion mass spectroscopy) characterization of carbon implanted vapor phase epitaxial gallium arsenide
[AD-A138094] 12 p1913 N84-22464
Low-cost GaAs solar cell development
[AD-A138938] 13 p2047 N84-23280
Nucleation and growth of N- and P-type microcrystals in low-temperature glow-discharge deposited silicon films
[DE84-013122] 22 p3667 N84-33246
Process for forming pure silver ohmic contacts to N- and P-type gallium arsenide materials
[DE84-014515] 23 p3831 N84-34298
P-1 ENGINE
Analysis of particulates in the exhaust plume of a TF30 engine at military power
[AD-A142510] 20 p3131 N84-29882
P-3 AIRCRAFT
The feasibility, practicality and utility of P-3 inflight refueling
[AD-A143419] 22 p3535 N84-32382
Passive line-of-sight stabilization for an infrared sensor
[AD-A143305] 22 p3599 N84-32792
PACIFIC ISLANDS
NT JAPAN
NT KURILE ISLANDS
NT NEW GUINEA (ISLAND)
NT NEW ZEALAND
NT PHILIPPINES
Satellite communications for the Pacific islands. Second year report
[NASA-CR-173171] 07 p0986 N84-16388
PACIFIC NORTHWEST (US)
Pacific Northwest solar radiation data
[DE84-002395] 06 p0882 N84-15738
PACIFIC OCEAN
On gravity from SST, geoid from SEASAT, and plate age and fracture zones in the Pacific
[E84-10025] 02 p0238 N84-11559
Geoid anomalies and fracture zones in the Pacific Ocean
[E84-10052] 05 p0696 N84-14572
Tide tables 1984, high and low water predictions, central and western Pacific Ocean and Indian Ocean
[PB83-255166] 05 p0711 N84-14680
Magnetic anomalies in east Pacific using MAGSAT data
[E84-10060] 06 p0864 N84-15630
Results from a two-layer and a reduced gravity model of the Alboran Sea; and vertical shear from tops
[AD-A133753] 06 p0884 N84-15752
A compilation of moored current meter data from the western North Pacific. Volume 31, 1980 - 1982
[AD-A134234] 06 p1196 N84-17796
Analysis of observed and modeled mixed layers: Nocal (northern California) region
[AD-A136773] 10 p1543 N84-20109
Satellite observations of fronts and frontal meanders in the Central North Pacific Ocean 11 p1671 N84-20903
On the driving of ocean currents by Rossby waves
[AD-P002659] 11 p1690 N84-21024
Eddy heat flux in the North Pacific
[AD-P002666] 11 p1691 N84-21031
Pacific Basin Communications Study, volume 1
[NASA-CR-173173] 12 p1805 N84-21767
Pacific Basin Communication Study, volume 2
[NASA-CR-173174] 12 p1805 N84-21768
GCM sensitivity to 1982 - 1983 equatorial Pacific sea surface temperature anomalies 12 p1858 N84-22106
Comparisons of sea-surface temperature obtained from ship and satellite data
[AD-A138257] 13 p2018 N84-23087
Preliminary study of microtektites first discovered in the central Pacific by China
[NASA-TM-77470] 14 p2250 N84-24514
One-dimensional model hindcasts of cold anomalies in the North Pacific ocean
[AD-A139870] 15 p2373 N84-25236

Acoustic ray-path fluctuations induced by El Nino
[PB84-187709] 16 p2534 N84-26270
Optimum density structure of upper mantle along Japan - Shatsky Rise - Emperor Sea mounts geotraverse
17 p2704 N84-27220
The variability of the surface wind field in the equatorial Pacific Ocean: Criteria for satellite measurements
17 p2717 N84-27296
Vector wind, horizontal divergence, wind stress and wind stress curl from SEASAT-SASS at one degree resolution
17 p2720 N84-27313
A compilation of moored current meter data from the region of the North Pacific boundary current, volume 33
[AD-A140687] 17 p2737 N84-27389
Data bank on Pacific and Indian Oceans
18 p2856 N84-28140
Peridotites of the Khizen Fault (Southeastern Pacific Ocean)
18 p2857 N84-28145
Prognostic relationships for surface temperature anomalies in northern part of Pacific Ocean
18 p2858 N84-28148
Tectonic and magmatic rock of central Pacific Ocean
18 p2858 N84-28150
Symposium Proceedings: A National program for the assessment and development of the mineral resources of the United States Exclusive Economic Zone
[US-CIRC-829] 18 p2866 N84-28192
Chapter 6: The US Geological Survey program and plans in the EEZ
18 p2866 N84-28193
Panel 1A: Geologic studies related to oil and gas development in the EEZ
18 p2866 N84-28194
The rapid sampling vertical profiler MILDEX, October-November 1983
[AD-A140965] 18 p2892 N84-28356
Seismological observations during the I and II Soviet-American expeditions for tsunami study in the open sea
19 p3060 N84-29417
T-phase recording by OBS near the conjugation of the Kuril and Japan trenches
19 p3060 N84-29418
Dominant depth of sources in the Kuril-Kamchatka earthquake focal zone from observations by surface and bottom stations
19 p3060 N84-29419
The seismicity of the continental slope of the Kuril trench from the OBS observations
19 p3061 N84-29420
On the elastic wave velocity distribution beneath the continental slope of the Kuril trench
19 p3061 N84-29421
Seismicity of the North-Eastern Sakhalin shelf
19 p3061 N84-29422
Hydrographic data from the OPTOMA (Ocean Prediction Through Observations, Modeling and Analysis) program: OPTOMA1, 8 to 13 March 1982
[AD-A141666] 19 p3061 N84-29425
The space-time scales of variability in oceanic thermal structure off the central California coast
[AD-A142040] 19 p3062 N84-29426
A synoptic case study analysis of the ocean temperature anomalies in the central Pacific region, 1976 - 1979
[AD-A142548] 20 p3251 N84-30631
Monitoring of long waves in the eastern Equatorial pacific 1981-1983 using satellite multi-channel sea surface temperature charts
[PB84-190467] 21 p3451 N84-31900
Investigation of several aspects of LANDSAT 4/5 data quality — California, Texas, Arkansas, Alabama, and Pacific Ocean
[E84-10024] 22 p3613 N84-32892
Paleomagnetism, rock magnetism and diagenesis in hemipelagic sediments from the northeast Pacific Ocean and the Gulf of California
22 p3621 N84-32944
Determination of rainfall and condensational heating in the South Pacific convergence zone during FGGE SOP-1
24 p3925 N84-34843

PACKAGES
NT INSTRUMENT PACKAGES

PACKAGING
NT ELECTRONIC PACKAGING
In-situ permeation tests of elastomeric O-ring seals
[DE83-015822] 03 p0356 N84-12318
PATRAM '83: 7th International Symposium on Packaging and Transportation of Radioactive Materials, summaries
[DE83-012390] 03 p0439 N84-12881
Hinge specification for a square-faceted tetrahedral truss
[NASA-CR-172272] 07 p1015 N84-16586
Redesigned of T-36 displacement gyroscope pack
[AD-A138047] 12 p1770 N84-21544
Impact of monoblock design and battery packaging on temperature excursion of nickel/iron batteries
[DE84-006444] 12 p1813 N84-21821
Novel antistatic packaging materials
[AD-D011089] 19 p3000 N84-29012
A guide for disposition of radioactive material sources
[DOE/EP-0068] 23 p3624 N84-34251

PACKET SWITCHING
An introduction to the AXIS test box
[RSRE-MEMO-3583] 03 p0418 N84-12729
System hardware for the implementation of frame protocol in packet switched networks
[FUB-58-1981] 05 p0731 N84-14803
Low rate transmission of video signals using adaptive delta modulation
[AD-A133145] 06 p0823 N84-15363
Advanced teleprocessing systems
[AD-A133525] 06 p0824 N84-15375
Edge display spanning trees and recovery in data communication networks
[AD-A134378] 07 p0993 N84-16437
Model and analysis of a communication interface with distributed processing for application in a communication network by packet switching
[INPE-2773-TDL/136] 08 p1215 N84-17926
An iteration algorithm for optimal network flows
[AD-A136183] 09 p1304 N84-18523
Test methodology for the level two subsystem of an X25 procedure for data terminal equipment — packet switching, open systems interconnection
[FUB-3-1983] 10 p1483 N84-19694
Data communications in the mobile radio channel
[EUT-83-E-142] 10 p1484 N84-19700
Multiple path static routing protocols for packet switched networks
[AD-A140166] 16 p2483 N84-25919
Adaptive topological configuration of an integrated circuit/packet-switched computer network
[AD-A141309] 18 p2830 N84-27966
Undetected error probability and throughput analysis of a concatenated coding scheme
[NASA-CR-173983] 24 p3945 N84-34977

PACKET TRANSMISSION
NT PACKET SWITCHING
A bibliography of packet radio literature
[AD-A141299] 18 p2830 N84-27964
Packet radio temporary note index
[AD-A141528] 19 p3005 N84-29045
Satellite communication of real-time packet video images
[AD-A143613] 23 p3730 N84-33643

PACKETS (COMMUNICATION)
Pluribus satellite IMP (Interface Message Provision) development mobile access terminal network
[AD-A132690] 05 p0670 N84-14405
Low rate transmission of video signals using adaptive delta modulation
[AD-A133145] 06 p0823 N84-15363
Advanced teleprocessing systems
[AD-A133525] 06 p0824 N84-15375
Advanced teleprocessing systems
[AD-A133555] 06 p0825 N84-15378
Performance evaluation and control of distributed computer communication networks
[AD-A135121] 08 p1215 N84-17926
Issues in satellite packet video communication
[AD-A135942] 09 p1303 N84-18515
Protocol software for a packet voice terminal
[AD-A136938] 10 p1481 N84-19678
A practical terrestrial packet radio network
[AD-A139162] 14 p2140 N84-23829
Wideband integrated voice/data technology
[AD-A139924] 15 p2321 N84-24937
TDA assessment of recommendations for space data system standards
16 p2479 N84-25898
A bibliography of packet radio literature
[AD-A141299] 18 p2830 N84-27964
GCF compatibility with packets and data compression
22 p3575 N84-32641

PACKING
Preliminary results of the effects of sewing, packing and parachute deployment on material strength
[DE84-006464] 13 p1927 N84-22541

PACKING DENSITY
Hot isostatic pressing of ceramic powder compacts
[AD-A131514] 01 p0050 N84-10324
Calculation of structure factor for different cluster models of an amorphous alloy
[BLL-M-35293-(5828.4)] 06 p0803 N84-15234
Technology for LSI circuits combining integrated injection logic and bipolar transistors
[BMFT-FB-T-83-210] 10 p1489 N84-19733
Effects of particle size distribution in thick film conductors
12 p1839 N84-21991

PACKINGS (SEALS)
Void-free epoxy castings for cryogenic insulators and seals
[DE83-017273] 04 p0529 N84-13479
Status of understanding for seal materials
15 p2343 N84-25062

PADE APPROXIMATION
Nonlinear partial differential equations and related problems of pade approximations
[AD-A135110] 08 p1218 N84-17948
Nonlinear partial differential equations and related problems of Pade approximations
[AD-A141519] 19 p3085 N84-29578

PAIN
The interactive effects of morphine and ionizing radiation on the latency of tail-withdrawal from warm water in the rat
[AD-P003251] 18 p2904 N84-28418
Rat behavior in selection of negative stimulus: Pain or exposure to electromagnetic field
20 p3255 N84-30857
Pulmonary artery location during microgravity activity: Potential impact for chest-mounted Doppler during space travel
[NASA-TM-58262] 21 p3457 N84-31935

PAINTS
Stabilization of the solvent Methyl-n-Amyl Ketone (MAK) in vinyl paints
[AD-A131059] 01 p0050 N84-10323
Polyurethane aircraft coatings for fuel savings
02 p0167 N84-11096
Innovations for improving performance, aerodynamic properties of aircraft
02 p0167 N84-11097
Results and interpretation of labor-hygienic studies in the paintshop of the jet engine depot of the Woensdrecht airbase
[PML-1982-54] 02 p0269 N84-11759
Assessment of energy-efficiency improvements for paint spray booths
[DE83-016680] 03 p0356 N84-12320
An assessment of ablative organotin antifouling (AF) coatings
[AD-A134019] 05 p0658 N84-14326
Development of a corrosion control, nonemissive paint for the protection of bilge spaces
[AD-A136270] 09 p1287 N84-18402
OTS 2: Five years of thermal testing on a satellite in a geostationary orbit
10 p1446 N84-19446
Measurement of alpha/epsilon ratio by using a Sun pointing satellite Tansei 4
10 p1446 N84-19447
Improved paint removal technique
[AD-A136671] 10 p1467 N84-19580
Development of low temperature cure epoxy paint for offshore steel structures in cold areas
[NRC/CNR-TT-2078] 11 p1636 N84-20694
Cleaning compound efficiency; test method for aircraft surface cleaners
[AD-A138515] 12 p1764 N84-21504
Determination of the effect of composition, structure and electrochemical mass transport properties on adhesion and corrosion inhibition of paint films
[AD-A138487] 12 p1801 N84-21746
Corrosion control through a better understanding of the metallic substrate/organic coating/interface
[AD-A139086] 13 p1961 N84-22739
Diffusely reflecting paints including polytetrafluoroethylene and method of manufacture
[NASA-CASE-GSC-12883-1] 15 p2300 N84-24806
Influence of the environment on the application and drying quality of organic paints — aircraft structures
[SNIAS-832-551-102] 16 p2471 N84-25833
Measurement of the peel and pull-off strength of coatings and finishes with pressure-sensitive tapes
[ESA-PSS-01-713-ISSUE-1] 16 p2472 N84-25847
The application of the black paint CHEMGLAZE Z306
[ESA-PSS-01-725-ISSUE-1] 16 p2472 N84-25848
The application of the thermal-control paint PYROLAC PSG 120FD
[ESA-PSS-01-733-ISSUE-1] 16 p2473 N84-25850
Polymers which are resistant to ionizing radiation for paints used in light water nuclear power stations
[BLL-RISLEY-TR-4907-(9091.9F)]
17 p2626 N84-26801

PAIR PRODUCTION
Cross section estimates for multi-TeV physics
06 p0911 N84-15914
Theory of elementary excitations in intermediate valence materials
[DE84-003705] 07 p1083 N84-17044
Equilibria in strongly magnetized pair plasmas
09 p1407 N84-19191
Pair production rates in mildly relativistic, magnetized plasmas
[NASA-TM-86103] 15 p2405 N84-25434
Emission model of gamma-ray bursts
[NASA-CR-173629] 17 p2781 N84-27656
Electromagnetic effects in strong field of single crystals
21 p3485 N84-32084
Influence of choice of pair-interaction potential on results of modelling an edge dislocation in Alpha-iron
[BLL-M-35682-(5828.4)] 22 p3553 N84-32499

Low-energy collisions excited atoms
[AD-A144192] 24 p3961 N84-35087

PAKISTAN
Space research in Pakistan: A relentless pursuit
21 p3346 N84-31227

PALEOMAGNETISM
Paleomagnetic studies in Antarctica
14 p2162 N84-23950
Changes in relative instantaneous spreading rates in the Indian Ocean 18 p2858 N84-28149
Geochronology, paleomagnetism and petrology of the Upper Cenozoic Bruneau Formation in the Western Snake River Plain, Idaho 21 p3440 N84-31826
Paleomagnetism, rock magnetism and diagenesis in hemipelagic sediments from the northeast Pacific Ocean and the Gulf of California 22 p3621 N84-32944
Paleogeography and tectonics of the Redding section, Eastern Klamath Belt, Northern California
23 p3796 N84-34070

PALEONTOLOGY
Climatic reconstructions in the North American arctic during the last 6000 years
[DE83-015836] 02 p0256 N84-11677
Global temperature patterns 6000 years ago
[DE84-004209] 10 p1537 N84-20072
Sedimentology and invertebrate paleontology of Triassic and Jurassic Lacustrine deposits, Culpeper Basin, northern Virginia 13 p2014 N84-23064
Modeling glacial climates
[NASA-TM-86106] 15 p2371 N84-25221
Vegetation and climates of the last 45,000 years in the vicinity of the Nevada Test Site, south-central Nevada
[DE84-009032] 20 p3247 N84-30610
Geology, petrology and tectonic significance of the Mesozoic Paleoceanic terranes of the Vizcaino Peninsula, Baja California Sur, Mexico 21 p3438 N84-31810
Paleogeography and tectonics of the Redding section, Eastern Klamath Belt, Northern California
23 p3796 N84-34070

PALLADIUM
Transactions of the Industrial Institute of Electronics (selected articles)
[AD-A137204] 10 p1485 N84-19711
The role of sintering in the oxidation-reduction of palladium powders
[DE84-011202] 20 p3159 N84-30059
In-situ TEM investigations of graphic-epitaxy and small particles
[NASA-CR-166593] 21 p3503 N84-32201

PALLADIUM ALLOYS
Martensite transformation and shape memory in Ti0.5Ni0.5-xPd sub x system alloys
12 p1786 N84-21649
Thermomagnetic properties of GdPd
[DE84-009991] 22 p3556 N84-32515

PALLADIUM COMPOUNDS
Fabrication and properties of multilayer structures
[NASA-CR-174506] 06 p0922 N84-15997

PALMGREN-MINER RULE
A tractable theory for nonlinear propellant response and cumulative damage predictions
20 p3142 N84-29950

PANAMA CANAL ZONE
Panama Canal Fog Navigation Study: Candidate system definition
[PB84-180793] 20 p3249 N84-30624
Panama Canal Fog Navigation Study: System requirements statement
[PB84-179811] 20 p3249 N84-30625

PANEL FLUTTER
Nonlinear oscillations of a fluttering panel in a transonic airstream
[AD-A133918] 05 p0627 N84-14124
Investigation of articulated panel dynamics
08 p1112 N84-17230

PANEL METHOD (FLUID DYNAMICS)
Development of V/STOL methodology based on a higher order panel method
[NASA-CR-166491] 01 p0004 N84-10024
Predicting aerodynamic characteristics of vortical flows on three-dimensional configurations using a surface-singularity panel method
03 p0323 N84-12112
A study of wing-body aerodynamic interference of a light twin aircraft utilizing a panel method potential flow program 03 p0327 N84-12134
Aspects of second- and third-order panel methods demonstrated for the two-dimensional flat plate problem
[NLR-TR-81074-U] 03 p0373 N84-12433
Development of a computer code for a three-dimensional higher order panel method for subsonic potential flow
[FFA-136] 04 p0479 N84-13155
Some new developments in exact integral equation formulations for sub- or transonic potential flow
[NLR-MP-82024-U] 06 p0903 N84-15860
Development of a computer code for 3-dimensional higher order panel method for subsonic potential flow
[FFA-136] 09 p1253 N84-16180
Civil component program integrated Wing-Engine-System (IFAS), phase 1 — computational methods
[BMFT-FB-W-83-018] 10 p1429 N84-19343
A method for computing the leading-edge suction in a higher-order panel method
[NASA-CR-3730] 11 p1600 N84-20479
Computational vortex flow aerodynamics
[NLR-MP-83017-U] 12 p1766 N84-21522
A collection of procedures for defining airplane surfaces for input to PANAIR 12 p1875 N84-22220
Panel method for perturbations of transonic flows with finite shocks 16 p2442 N84-25669
Transonic panel method for the full potential equation applied to multi-component airfoils
[NLR-MP-83030-U] 17 p2601 N84-26674
PAN AIR: A computer program for predicting subsonic or supersonic linear potential flows about arbitrary configurations using a higher order panel method. Volume 1: Theory document (version 1.1)
[NASA-CR-3251] 18 p2788 N84-27697
PAN AIR: A computer program for predicting subsonic or supersonic linear potential flows about arbitrary configurations using a high order panel method. Volume 2: User's manual (version 1.1)
[NASA-CR-3252] 18 p2788 N84-27698
Computer program documentation for a subcritical wing design code using higher order far-field drag minimization
[NASA-CR-3457] 19 p2957 N84-28740
PAN AIR summary document (version 1.0)
[NASA-CR-3250] 19 p2957 N84-28741
A ring source method for predicting the aerodynamic characteristics of bodies of revolution
[COA-8409] 19 p2957 N84-28744
PAN AIR: A computer program for predicting subsonic or supersonic linear potential flows about arbitrary configurations using a higher order panel method. Volume 4: Maintenance document (version 1.1)
[NASA-CR-3254] 23 p3890 N84-33388

PANELS
NT CURVED PANELS
NT RECTANGULAR PANELS
NT WING PANELS
Flight service evaluation of Kevlar-49 epoxy composite panels in wide-bodies commercial transport aircraft
[NASA-CR-166065] 01 p0030 N84-10188
Nonlinear response and noise transmission of double wall sandwich panels 02 p0187 N84-11215
Low-temperature forming of beta titanium alloys
[NASA-CR-3706] 02 p0193 N84-11253
Applied J-integral in HY130 tensile panels and implications for fitness for service assessment
[PB83-240598] 02 p0198 N84-11290
High speed machining of space shuttle external tank liquid hydrogen barrel panel
[NASA-TM-82557] 05 p0662 N84-14352
Buckling loads of stiffened panels subjected to combined longitudinal compression and shear: Results obtained with PASCO, EAL, and STAGS computer programs
[NASA-TP-2215] 07 p1015 N84-16585
Measurement of transmission loss characteristics using acoustic intensity techniques at the KU-FRL Acoustic Test Facility
[NASA-CR-173187] 07 p1069 N84-16942
Investigation of articulated panel dynamics
08 p1112 N84-17230
Development and application of optimization techniques for composite laminates
[AD-A135832] 09 p1278 N84-18330
Structural efficiency studies of corrugated compression panels with curved caps and beaded webs
[NASA-TP-2272] 09 p1329 N84-18675
Concepts for improving the damage tolerance of composite compression panels — aircraft structures
[NASA-TM-85748] 09 p1329 N84-18678
POSTOP: Postbuckled open-stiffener optimum panels-theory and capability
[NASA-CR-172259] 09 p1329 N84-18679
Skin-stiffener interface stresses in composite stiffened panels
[NASA-CR-172261] 09 p1330 N84-18681
POSTOP: Postbuckled open-stiffener optimum panels, user's manual
[NASA-CR-172260] 09 p1330 N84-18682
Fire-retardant decorative inks for aircraft interiors
[NASA-TM-85876] 10 p1451 N84-19475
Mechanical behavior of superplastically formed sandwich panels 10 p1453 N84-19490
Numerical determination of the effects of boundary conditions on the instability of composite panels with cutouts
[AD-A136772] 10 p1517 N84-19931
Flexible radiator thermal vacuum test report
[NASA-CR-171764] 11 p1623 N84-20622
Flexible radiator system: Executive summary
[NASA-CR-171766] 11 p1623 N84-20624
Re-design and fabrication of titanium multi-wall Thermal Protection System (TPS) test panels
[NASA-CR-172247] 12 p1780 N84-21610
Combustor liner construction
[NASA-CASE-LEW-14035-1] 15 p2260 N84-24577
Response of structural panels to air blast
15 p2316 N84-24902
Large deflection multimode response of clamped rectangular panels to acoustic excitation, volume 1
[AD-A139622] 15 p2350 N84-25107
Research and development on the encapsulation of solar cells with improved potting and cover materials
[BMFT-FB-T-83-309] 15 p2363 N84-25175
Effect of elastically suspended masses on stability of elastic panels in supersonic stream
17 p2650 N84-26949
On the propagation of bending waves in a periodically stiffened panel
[FFA-TN-1984-12] 18 p2853 N84-28119
Panel fabrication utilizing GaAs solar cells
19 p3048 N84-29337
Improved techniques of parallel gap welding and monitoring 19 p3048 N84-29341
Residual-strength tests of L-1011 vertical fin components after 10 and 20 years of simulated flight service 20 p3145 N84-29970
Tensile strength of composite sheets with unidirectional stringers and crack-like damage
20 p3146 N84-29974
Postbuckling behavior of graphite-epoxy panels
20 p3146 N84-29976
Studies of noise transmission in advanced composite material structures 20 p3146 N84-29977
Characterization and degradation studies on synthetic polymers for aerospace application
[NASA-CR-166597] 21 p3355 N84-31284
Flight service evaluation of Kevlar-49 epoxy composite panels in wide-bodied commercial transport aircraft
[NASA-CR-172344] 21 p3356 N84-31287
An analytical evaluation of spall suppression of impulsively loaded aluminum panels based on a 1-dimensional stress wave propagation model
[AD-A143173] 21 p3422 N84-31708
Potential surface improvements by bump removal for 64-m antenna 22 p3573 N84-32627
How some test variables affect bending, tension, and compression values for particle panel products
[AD-A143627] 23 p3761 N84-33838
Fatigue induced cracking in aluminum LN-2 shroud of 39 foot vacuum chamber 24 p3862 N84-34476
Advanced composite vertical stabilizer for DC-10 transport aircraft
[NASA-CR-173985] 24 p3878 N84-34573
Saltless solar pond
[NASA-CASE-NPO-15808-1] 24 p3916 N84-34792

PAPER (MATERIAL)
Application of image processing technology to problems in manuscript encapsulation — Codex Hammer
[NASA-CR-173200] 07 p1007 N84-16528
Survey and analysis of materials research and development at selected federal laboratories
[DE84-006904] 20 p3145 N84-29967

PARABOLAS
Estimation of discontinuous coefficients in parabolic systems: Applications to reservoir simulation
[NASA-CR-172301] 10 p1568 N84-20273
The efficient use of spectral and finite difference methods for the solution of certain hyperbolic and parabolic problems
[AD-A139477] 14 p2214 N84-24299

PARABOLIC ANTENNAS
A FORTRAN computer program to compute the radiation pattern of an array-fed paraboloid reflector
[AD-A131060] 02 p0209 N84-11363
Large inflated-antenna system
08 p1112 N84-17234
Focusing the parabolic antenna
[NASA-CR-173304] 08 p1173 N84-17642
Antenna pattern measurements to characterize the out-of-band behavior of reflector antennas
[AD-A136199] 09 p1304 N84-18525
Reduction of the strut radiation of reflector antennas
[FI-454-TBR-35] 16 p2482 N84-25918
Selection of actuator locations for static shape control of large space structures by heuristic integer programing
[NASA-TM-85789] 17 p2616 N84-26741
Phase light range finder 21 p3360 N84-31447
Hoop/column antenna RF verification model. Volume 2: Analysis and correlation
[NASA-CR-172413] 21 p3382 N84-31462

RF design and performance of a multibeam, multiband antenna
[AD-P003512] 21 p3385 N84-31480
Synthesis of offset dual shaped subreflector antennas for control of Cassegrain aperture distributions
[AD-P003517] 21 p3385 N84-31485
The nonlinear dynamics of spinning paraboloidal antennas 21 p3476 N84-32033
The correction of aberrations computed in the aperture plane of multifrequency microwave radiometer antennas
[NASA-TM-86090] 22 p3581 N84-32679

PARABOLIC DIFFERENTIAL EQUATIONS
Spectral methods for time dependent partial differential equations
[NASA-CR-172241] 01 p0128 N84-10837
Smooth solutions to a quasi-linear system of diffusion equations for a certain population model
[AD-A129180] 01 p0128 N84-10839
Stable equilibria in a scalar parabolic equation with variable diffusion
[AD-A131221] 01 p0134 N84-10877
An introduction to the parabolic equation for acoustic propagation
[AD-A132315] 04 p0595 N84-13925
Solving elliptic-parabolic problems
[AD-A133726] 05 p0734 N84-14822
Finite difference methods for convective-diffusive equations 06 p0835 N84-15432
Progress on a generalized coordinates tensor product finite element 3DFNS algorithm for subsonic
[NASA-CR-172256] 07 p1002 N84-16495
A computer program for solving the parabolic equation using an implicit finite-difference solution method and incorporating exact interface conditions
[AD-A135325] 08 p1212 N84-17903
Linear or nonlinear wave problems with input sets
[AD-A137811] 11 p1714 N84-21177
A boundary modulus of continuity for a class of singular parabolic equations
[AD-A138019] 12 p1893 N84-22331
The numerical calculation of traveling wave solutions of nonlinear parabolic equations on the line
[AD-A139238] 14 p2212 N84-24283
A comparitive study of ADI splitting methods for parabolic equations in two space dimensions
[NC-NW-156/83] 14 p2215 N84-24304
Seminar on Zeroing Methods and Applications, spring trimester, 1983 16 p2540 N84-26304
Nonlinear equation systems for parabolic differential equations and differential equation systems
16 p2540 N84-26305
Random rays, geometric acoustics, and the parabolic wave equation
[AD-A141398] 19 p3083 N84-29568
L infinity stability of an exponentially decreasing solution of the problem Delta u + f(x,u) = o in r(n)
[AD-A141601] 19 p3085 N84-29582
A free boundary problem for degenerate quasilinear parabolic equations
[AD-A141608] 19 p3085 N84-29585
A remark on semilinear perturbations of abstract parabolic equations
[AD-A141695] 19 p3087 N84-29593
Modified 5-point and 9-point schemes for the solution of the Vorticity- transport equation with cross derivatives
[AD-A142720] 20 p3284 N84-30651
Parabolized Navier-Stokes solutions for hypersonicflow fields 23 p3688 N84-33373

PARABOLIC REFLECTORS
NT PARABOLOID MIRRORS
Development of mass-producible line-focus tracking concentrating solar collectors. Category 1: Collectors
[DE83-015629] 03 p0403 N84-12639
Structural analysis of a glass/space frame parabolic-trough solar collector for various operating positions
[DE84-001137] 04 p0550 N84-13622
Photovoltaic concentrators: Recent developments
[DE84-001641] 04 p0559 N84-13687
An anisotropic model of diffuse solar radiation with application to an optimization of compound parabolic collectors 05 p0765 N84-15017
Direct steam generation in line-focus solar collectors
[DE83-006030] 06 p0872 N84-15678
Determination of freeze protection heat loss from a parabolic trough solar system
[DE84-000005] 06 p0874 N84-15689
Solar thermal technology evaluation, fiscal year 1982. Volume 1: Executive summary
[NASA-CR-173190] 07 p1025 N84-16640
Solar thermal technology evaluation, fiscal year 1982. Volume 2: Technical
[NASA-CR-173191] 07 p1025 N84-16641
Solar parabolic technology evaluation
[NASA-CR-173203] 07 p1025 N84-16644
Study on large, ultralight long-life structures in space, phase 2C
[TM-EKR3] 08 p1120 N84-17284
Antenna pattern measurements to characterize the out-of-band behavior of reflector antennas
[AD-A136199] 09 p1304 N84-18525
Solar tests of aperture plate materials for solar thermal dish collectors
[NASA-CR-173462] 12 p1842 N84-22010
Low-temperature IPH parabolic troughs: Design variations and cost-reduction potential
[DE84-000024] 12 p1843 N84-22016
Kuwait, phase 3/stage 1: Application and test program for the Sulaibyah food/water/power system
[BMFT-FB-T-84-024] 16 p2476 N84-25876
Apparatus for and method of compensating dynamic unbalance
[NASA-CASE-GSC-12550-1] 18 p2848 N84-28082
Solar parabolic dish technology evaluation report
[NASA-CR-173725] 18 p2870 N84-28217
The kinematic Stirling engine as an energy conversion subsystem for paraboloidal dish solar thermal plants
[NASA-CR-173724] 18 p2870 N84-28218
Proceedings of the Fifth Parabolic Dish Solar Thermal Power Program
[NASA-CR-173745] 18 p2871 N84-28224
Concentrator development 18 p2871 N84-28225
Parabolic Dish Concentrator (PDC-1)
18 p2871 N84-28226
Parabolic Dish Concentrator (PDC-2) development
18 p2871 N84-28227
Optical analysis of Cassegrainian point focus concentrators 18 p2872 N84-28229
Advanced solar receivers 18 p2872 N84-28232
Solar tests of aperture plate materials for solar thermal dish collectors 18 p2872 N84-28233
Non-DOE-sponsored domestic dish activities
18 p2872 N84-28234
On solar thermal electric power capacity sizing
18 p2872 N84-28236
Parabolic dish Stirling module
18 p2873 N84-28241
Testing of the United Stirling 4-95 solar Stirling engine on test bed concentrator 18 p2873 N84-28243
Vanguard concentration 18 p2873 N84-28244
Near-term Brayton module status
18 p2874 N84-28246
LEC system development 18 p2874 N84-28248
Deployment of a secondary concentrator to increase the intercept factor of a dish with large slope errors
18 p2875 N84-28252
Rapid Test Bed Concentrator (TBC) alignment techniques 18 p2875 N84-28256
Recent solar measurements results at the parabolic dish test site 18 p2875 N84-28258
Experimental natural convective studies within a compound parabolic concentrator enclosure
[DE84-006967] 19 p3025 N84-29184
Solar thermal parabolic dish systems: Technology and applications
[DE84-012239] 21 p3435 N84-31792
A nomographic methodology for use in performance trade-off studies of parabolic dish solar power modules
[NASA-CR-173908] 22 p3617 N84-32918

PARABOLIC VELOCITY
U ESCAPE VELOCITY

PARABOLOID MIRRORS
Mirror antenna dual-band lightweight mirror design
[AD-A138113] 12 p1806 N84-21776
Feed system for the Metsahovi cooled 75-95 GHz receiver
[REPT-S-146] 15 p2328 N84-24978
A comparison of 2 acoustic parabolic transmission loss models for compatibility with the wavenumber technique in the determination of source depth
[AD-A143079] 21 p3492 N84-32128

PARACHUTE DESCENT
Recent advances in parachute technology
[RAE-TM-FS(F)-514] 03 p0319 N84-12089
Coherence of appraisal and coping: Parachute jump effectiveness
[FOA-C-55058-H3] 03 p0416 N84-12724
Parachuting in night conditions
[FOA-C-59010-H1] 18 p2790 N84-27708
The military aircrew work environment
[FOA-A-59005-H1-H2] 18 p2915 N84-28490
Parachute descent from altitude 5000 to 7000 meters
[FOA-C-59008-H1] 19 p2959 N84-28756

PARACHUTE FABRICS
Recent advances in parachute technology
[RAE-TM-FS(F)-514] 03 p0319 N84-12089

PARACHUTES
NT DRAG CHUTES
NT RECOVERY PARACHUTES
NT RIBBON PARACHUTES
NT ROTOCHUTES
High-speed, low-altitude payload delivery using a single large ribbon parachute
[DE84-002731] 06 p0783 N84-15128
Development of the parachute recovery system for the LBRV-2 reentry vehicle
[DE84-001540] 12 p1766 N84-21518
Human strength capabilities for the operation of parachute ripcords and riser releases
[AD-A138328] 12 p1868 N84-22174
Preliminary results of the effects of sewing, packing and parachute deployment on material strength
[DE84-006464] 13 p1927 N84-22541
Flow past a flexible membrane
[AD-P002938] 14 p2197 N84-24178
Improved prediction of parachute line sail during lines-first deployment
[DE84-007340] 15 p2258 N84-24563
Aircrew Gliding Escape System (AGES) exploratory development investigation of aircrew emergency escape ram-air inflated, flexible wing
[AD-A139926] 15 p2258 N84-24565
Parachuting in night conditions
[FOA-C-59010-H1] 18 p2790 N84-27708
Parachute descent from altitude 5000 to 7000 meters
[FOA-C-59008-H1] 19 p2959 N84-28756
The Project STRAFAM: Test of a new parachute based instrument carrier for stratospheric research -- dropsondes
[BMFT-FB-W-84-021] 21 p3445 N84-31859

PARACHUTING
U PARACHUTE DESCENT

PARADOXES
Comment on the extinct paradox
[NASA-TM-85113] 06 p0917 N84-15958

PARAFFINS
Investigation of sources, properties and preparation of distillate test fuels
[NASA-CR-168227] 04 p0508 N84-13332

PARAGLIDERS
NT FLEXIBLE WINGS

PARALLAX
NT STELLAR PARALLAX
Real visual image compensation for head motion parallax effects as a function of object distance
[AD-A132915] 05 p0720 N84-14717
Satellite orbit theories based on the elimination of the parallax 19 p3118 N84-29619

PARALLEL COMPUTERS
Pringle: A parallel processor to emulate CHiP (configurable highly parallel) computers
[AD-A129152] 01 p0119 N84-10770
A CRAY-Class multiprocessor simulator
[AD-A136555] 09 p1365 N84-18913
Parallel logic programming and ZMOB and parallel systems software and hardware
[AD-A137068] 10 p1564 N84-20246
Interactive parallel processor for data analysis
[DE84-004311] 10 p1564 N84-20250
The Pringle parallel computer
[AD-A140852] 17 p2750 N84-27452
Conduct of the International Multigrid Conference
[NASA-CR-173823] 19 p3090 N84-29618

PARALLEL FLOW
NT PIPE FLOW
NT THREE DIMENSIONAL FLOW
Turbulent tube-flow heat transfer coefficients in the presence of flow imbalance in the tubes of a parallel array 03 p0374 N84-12437
Scale lengths in quasi-parallel shocks
[NASA-TM-85109] 03 p0407 N84-12663
The effects of acoustic excitation on the mixing of two parallel laminar streams of fluid
[AD-A126788] 06 p0843 N84-15502
Pneumatic atomisation with coaxial injectors: Measurements of drop size by diffraction method and liquid phase fraction by attenuation method
[NAL-TR-768] 09 p1312 N84-18574
Integral manifolding structure for fuel cell core having parallel gas flow
[DE84-014664] 23 p3744 N84-33731

PARALLEL PLATES
Subnanosecond-rise-time, low-impedance pulse generator
[DE83-013793] 01 p0074 N84-10485
Heat transfer, pressure drop, and fluid flow in interrupted wall passages 05 p0682 N84-14487
Remarks on the flow between two parallel rotating plates
[AD-A141582] 19 p3023 N84-29174

PARALLEL PROCESSING (COMPUTERS)
Pringle: A parallel processor to emulate CHiP (configurable highly parallel) computers
[AD-A129152] 01 p0119 N84-10770
A methodology for exploiting parallelism in the finite element process
[NASA-CR-172219] 01 p0127 N84-10831

Parallel processor for fast event analysis
[DE83-014050] 02 p0271 N84-11770
A model for the distributed storage and processing of large arrays
[NASA-CR-172252] 03 p0420 N84-12742
Design, development and use of the finite element machine
[NASA-CR-172250] 03 p0424 N84-12777
Issues in the design and implementation of Act2
[AD-A132326] 04 p0580 N84-13826
SISAL: Streams and Iteration in a Single-Assignment Language. Language reference manual, version 1.1
[DE83-016578] 04 p0582 N84-13843
Logic design of a shared disk system in a multi-micro computer environment
[AD-A132165] 04 p0585 N84-13862
Space-time algorithms: Semantics and Methodology 05 p0721 N84-14726
A language for the specification and representation of programs in a data flow model of computation 05 p0731 N84-14800
Analysis of data flow for SIMD (Single Instruction Multiple Data) systems
[AD-A133248] 06 p0895 N84-15812
Parallel algorithms in combinatorial optimization: An annotated bibliography
[MC-BW-169/93] 07 p1058 N84-16853
Analysis of an error detection scheme for parallel computations
[AD-A134819] 08 p1152 N84-17496
Foundations of computer science 4. Distributed systems. Part 1: Algorithms and complexity
[MATH-CENTRE-TRACTS-158-PT-1] 08 p1207 N84-17873
Parallel computation 08 p1208 N84-17875
Modelling algorithm execution time on processor arrays
[NASA-CR-172289] 08 p1211 N84-17899
Myopic heuristics for the weighted tardiness problem on identical parallel machines
[AD-A134934] 08 p1216 N84-17934
Theory of image analysis and recognition
[AD-A135453] 08 p1240 N84-18106
A versatile parallel image processor system
[AD-A136292] 09 p1365 N84-18910
A comparison of the Cellular Logic Image Processor (CLIP) 4; Distributed Array Processor (DAP) and Massively Parallel Processor (MPP) processor-array implementations
[NLR-MP-82054-U] 09 p1366 N84-18917
Synthesis of efficient structures for concurrent computation
[AD-A135892] 09 p1368 N84-18930
Analysis of an error masking scheme for parallel computations
[AD-A136372] 09 p1374 N84-18971
Development of realistic algorithms for matrix computations on parallel computers
[AD-A136570] 09 p1376 N84-18990
Signal processing applications of systolic array technology (extended summary) 09 p1399 N84-19139
A parallel VLSI architecture for a digital filter using a number theoretic transform 09 p1400 N84-19141
Multi-computer parallel arrays, pipeline arrays and pyramids 09 p1400 N84-19147
Impact of VLSI on modern signal processing 09 p1402 N84-19155
An approach to reliable parallel data processing 09 p1402 N84-19157
Parallel algorithms for image analysis, extended summary 09 p1402 N84-19161
Parallel processor engine model program
[NASA-CR-174641] 10 p1431 N84-19353
A comparison of homogeneous and heterogeneous display formats in information integration and nonintegration tasks
[AD-A136693] 10 p1554 N84-20183
The use of the MASCOT philosophy for the construction of Ada programs
[AD-A137417] 10 p1563 N84-20239
Parallel logic programming and ZMOB and parallel systems software and hardware
[AD-A137068] 10 p1564 N84-20246
Interactive parallel processor for data analysis
[DE84-004311] 10 p1564 N84-20250
Multiplication of processing capacity with a parallel processor array
[DE84-004654] 11 p1711 N84-21156
Harmony theory: A mathematical framework for stochastic parallel processing
[AD-A137883] 11 p1714 N84-21178
Highly parallel processing of relational databases
[AD-A137961] 12 p1877 N84-22231
Comparing the NYU Ultracomputer with other large-scale parallel processors
[DE84-006043] 12 p1878 N84-22239
The design of information structures: Basic allocation strategies for organizations
[AD-P002909] 13 p1981 N84-22861
Comparison of processor arrays with pipeline processors for image processing
[NLR-MP-83011-U] 13 p2030 N84-23185
Designing efficient communication networks
[AD-A139190] 14 p2202 N84-24219
Modular computing networks: A new methodology for analysis and design of parallel Algorithms/Architectures
[AD-A139600] 14 p2209 N84-24261
A parallel QR method using fast Givens' rotations
[AD-A139184] 14 p2212 N84-24281
The 6th International Conference on Computing Methods in Applied Sciences and Engineering
[AD-A139824] 15 p2317 N84-24906
MPP disk subsystem
[NASA-CR-175227] 15 p2388 N84-25325
Compression and Decompression of Imaging Sensor Signals (CADISS): An image (de)compression system for deep space application
[NLR-MP-83028-U] 15 p2390 N84-25339
Embedding of networks of processors into hypercubes
[AD-A139647] 15 p2397 N84-25384
On the sequential nature of unification
[AD-A139939] 15 p2398 N84-25388
Numerical mathematics by vector calculation: Theory and practical experiments 16 p2549 N84-26356
Parallel processors: Aspects of interaction between calculator architecture and algorithms 16 p2549 N84-26360
USSR report: Electronics and electrical engineering
[JPRS-UEE-84-007] 17 p2630 N84-26621
Microprocessor parallel processing for digital filters 17 p2634 N84-26654
The Pringle parallel computer
[AD-A140852] 17 p2750 N84-27452
Memory-based parallel data output controller
[NASA-CASE-GSC-12447-2] 18 p2916 N84-28491
The Demos multi-computer project: Hardware aspects
[NPL-DITC-36/84] 18 p2917 N84-28493
Review of research under the Joint Services Electronics Program
[AD-A141458] 19 p3013 N84-29100
Parallel image processing and image understanding
[AD-A142162] 19 p3042 N84-29300
A distributed memory management system for PASM
[AD-A141360] 19 p3072 N84-29487
Sorting by recursive partitioning
[AD-A141583] 19 p3077 N84-29524
SREM (Software Requirements Engineering Methodology) evaluation, volume 1
[AD-A141631] 19 p3077 N84-29525
SREM (Software Requirements Engineering Methodology) evaluation. Volume 2: Specifications and technical data
[AD-A141632] 19 p3078 N84-29526
Solution of a tridiagonal system of equations on the finite element machine
[NASA-TM-85710] 19 p3080 N84-29543
Study of the mapping of Navier-Stokes algorithms onto multiple-instruction/multiple-data-stream computers
[NASA-TM-85945] 19 p3080 N84-29544
Application of asymptotic methods of theoretical computer science and combinatorics to problems in the design of VLSI circuits
[AD-A142262] 19 p3090 N84-29617
Current research in parallel microprocessing systems at Los Alamos
[DE84-011342] 20 p3277 N84-30804
On the design of a Pipelined/Systolic finite element system
[AD-A142558] 20 p3281 N84-30830
Nonlinear real-time optical signal processing
[AD-A142619] 20 p3300 N84-30956
Inductive information retrieval using parallel distributed computation
[AD-A142712] 20 p3314 N84-31050
Princeton VLSI project
[AD-A142959] 21 p3391 N84-31521
An automatic syntheses of hardware algorithm 22 p3563 N84-32568
Adaptive analog-to-digital converter 22 p3567 N84-32591
The design and performance of a parallel computer architecture for simulation 22 p3637 N84-33054
On the impact of communication complexity in the design of parallel numerical algorithms
[NASA-CR-172436] 22 p3637 N84-33059
The effect of queueing disciplines on response times in distributed systems
[DE84-012639] 22 p3641 N84-33086
Theoretical issues in the design and verification of distributed systems 22 p3643 N84-33096
Multiresolution spatially constrained clustering of remotely sensed data on the massively parallel processor 23 p3779 N84-33962
Analysing remotely sensed data on the Massively Parallel Processor 23 p3779 N84-33963

PARALLEL PROGRAMMING
The fairness problem and nondeterministic computing networks 08 p1209 N84-17883
Parallel logic programming and ZMOB and parallel systems software and hardware
[AD-A137068] 10 p1564 N84-20246
Workshop on Multiprocessors for High Performance Parallel Computation: Position papers
[PB84-152545] 14 p2204 N84-24228
Workshop on Multiprocessors for High Performance Parallel Computation
[PB84-152677] 14 p2204 N84-24229
Introduction to the Poker Parallel Programming Environment
[AD-A140651] 17 p2753 N84-27476
Design methodology for real-time distributed systems
[AD-A140886] 17 p2754 N84-27478
Parallel programming and the poker programming environment
[AD-A141026] 18 p2921 N84-28523
Research into self-timed VLSI circuits
[AD-A141871] 19 p3014 N84-29103
Design issues in parallel architectures for artificial intelligence
[AD-A142482] 20 p3278 N84-30809
Inductive information retrieval using parallel distributed computation
[AD-A142712] 20 p3314 N84-31050
The use of pipeline techniques in the architecture of digital processors employed in real time applications
[INPE-2992-TDL/153] 22 p3639 N84-33075

PARALLEL STRIP LINES
U MICROSTRIP TRANSMISSION LINES

PARALLELEPIPEDS
Method for evaluating parameters of magnetized object of great horizontal extent 17 p2705 N84-27229

PARALYSIS
Information processing for use in the treatment of severely physically handicapped persons 20 p3264 N84-30711

PARAMAGNETIC AMPLIFIERS
U MASERS

PARAMAGNETIC RESONANCE
NT ELECTRON PARAMAGNETIC RESONANCE

PARAMAGNETISM
Harmonic generation in paramagnetic spin systems
[AD-A130895] 01 p0153 N84-11004
Investigation of the paramagnetic phase of BCC iron using polarized neutron scattering
[DE84-002857] 07 p0974 N84-16315
Metallic microwave conductivity in shock-loaded rutile
[DE84-002174] 08 p1235 N84-18075
An experimental study of praseodymium intermetallic compounds at low temperatures
[DE83-704748] 24 p3884 N84-34812

PARAMETER IDENTIFICATION
Launch vehicle aerodynamic flight test results 01 p0019 N84-10119
Nickel diffusion along single inter-phase boundaries
[BLL-M-35109-(5828.4)] 01 p0040 N84-10254
Description of NCAR (National Center for Atmospheric Research) community climate model (CCM0B)
[PB83-231068] 01 p0110 N84-10715
The physiological effects of simultaneous exposures to heat and vibration
[NASA-TM-84400] 01 p0113 N84-10732
Robust ABLUE's (Asymptotically Best Linear Unbiased Estimators) for location and scale parameter estimation
[AD-A130752] 01 p0132 N84-10867
Generation of ultrafast optical fiducials for shock-wave experiments
[DE83-013765] 01 p0148 N84-10974
The 2-step ECRH current-drive study
[DE83-012745] 01 p0150 N84-10983
Data acquisition for stall/spin flight research 02 p0169 N84-11111
Fast flutter clearance by parameter variation 02 p0172 N84-11135
Lattice-parameter measurement in retained austenite by CBED
[DE83-013296] 02 p0195 N84-11267
Parameterization of solar radiative transfer in clear and cloudy atmospheres 02 p0246 N84-11608
Parameter identification and control of distributed-parameter systems 02 p0266 N84-11673
Study of noise transmission through double wall aircraft windows
[NASA-CR-172182] 02 p0267 N84-11884

Estimating location parameters in a mixture model
03 p0392 N84-12559
An empirical Bayes approach to spatial analysis
03 p0393 N84-12563
Methods of optimizing parameters of mechanisms performing repeated brief operations
[BLL-M-35952] 04 p0543 N84-13575
Benchmarking the join operations of relational database machines
[AD-A132312] 04 p0584 N84-13861
Identification of nonlinear systems
[RR-232] 05 p0739 N84-14850
The measurement of surface texture and its correlation with function 06 p0914 N84-15299
Influence of measuring section parameters on the results of a flight-mechanical system identification
07 p0944 N84-16125
Presentation of a new adaptive intraframe prediction procedure — television signals
[IND-FB-112] 07 p0994 N84-16446
Hypothesis identification in the case of the missing cell
[AD-A134553] 07 p1063 N84-16895
Control and identification of time varying systems
[AD-A135223] 08 p1238 N84-18091
Investigation of optimum magnet geometries for gain-expanded free-electron lasers
[AD-A136494] 09 p1321 N84-18634
The experimental/analytical determination of the real normal mode parameters of a structure with limited accessibility
[DFVLR-FB-83-26] 09 p1334 N84-18711
A methodological look at astronomical statistics in the light of unbiased estimation 09 p1411 N84-19229
Maximum-likelihood estimation of kinematic parameters — stellar motion 09 p1412 N84-19232
Mathematical theories, numerical investigations — geodesy 10 p1519 N84-19949
Breakdown phenomena in SPEED 1 — plasma focus
10 p1583 N84-20374
Practical aspects of modeling aircraft dynamics from flight data 11 p1616 N84-20575
Detailed design of a variable volume hydrogen maser
[NASA-CR-175221] 11 p1662 N84-20841
Atomic and molecular processes in discharge cleaning plasmas 11 p1736 N84-21322
Two-dimensional flight-path reconstruction by means of spline approximation
[NLR-TR-82075-U] 12 p1769 N84-21541
Pilot Ocean Data System (PODS) file format specifications 12 p1836 N84-21968
Global energy futures and CO2-induced climate change, appendices
[PB84-145903] 12 p1882 N84-22132
Observation model and parameter partials for the JPL VLBI parameter estimation software MASTERFIT-V1.0
[NASA-CR-173455] 12 p1879 N84-22245
Intermodulation between v.h.f./f.m. broadcast transmitters and the protection of adjacent-band aeronautical services
[BBC-RD-1984/2] 13 p1975 N84-22819
Adaptive control strategies for computer-controlled manipulators 13 p2023 N84-23114
Optimization of satellite orbital parameters for oceanic surveillance
[AD-P002158] 14 p2139 N84-23824
System modeling and identification of equivalent systems with and without compensating time delay for control-augmented aircraft
[DFVLR-FB-83-36] 15 p2259 N84-24570
Semi-analytical procedure for the propagation of artificial satellite orbits based on parameter estimation
[INPE-2757-PRE/333] 15 p2270 N84-24628
Spectral analysis of Beta Pegasi
15 p2422 N84-25551
A comparison of parameter estimation results from flight test data using linear and nonlinear maximum likelihood methods
[DFVLR-FB-84-06] 16 p2449 N84-25706
An algorithm for maximum likelihood estimation using an efficient method for approximating sensitivities
[NASA-TP-2311] 16 p2451 N84-25717
Interactions between a large body and its environment in a low polar orbit
[AD-P002111] 16 p2523 N84-26197
Estimating the trajectory of a sound source moving without acceleration using observations from a single stationary sensor
[LFD-215] 16 p2553 N84-26381
Environment-independent homogenized parameters for neutron diffusion in non-symmetric slabs
[CISE-2117] 16 p2555 N84-26392
Statistics of field of multistage phased antenna array
17 p2632 N84-26834
Determining parameters of radiating focus from amplitude spectra of body waves
17 p2704 N84-27222
Method for evaluating parameters of magnetized object of great horizontal extent 17 p2705 N84-27229
Research and applications of data from environmental satellites: Determining parameters and developing interpretation techniques for applications of environmental satellite data
[INPE-3005-NTE/213] 17 p2711 N84-27261
Scatterometer capabilities in remotely sensing geophysical parameters over the ocean: The status and the possibilities 17 p2712 N84-27268
Boundary conditions for the phenomena of solar bursts established from the statistical behavior of hard X-ray bands
[INPE-2906-TDL/147] 17 p2760 N84-27653
A study of space station needs, attributes and architectural options. Midterm briefing, executive summary
[NASA-CR-173446] 18 p2805 N84-27808
methodological problems in evaluating and predicting water-ice resources in mountainous areas
18 p2856 N84-28135
Least squares parameter estimation algorithms for nonlinear systems
[RR-225] 18 p2923 N84-28536
Identification of a nonlinear difference equation model of an industrial diesel generator
[RR-246] 18 p2926 N84-28559
Analysis of nonuniform dielectric waveguides for millimeter-wave applications
[AD-A141406] 19 p3013 N84-29098
Ocean bottom seismograph operation: Certain problems of procedure 19 p3080 N84-29415
Behavioral and biological effects of changes in group size and membership
[NASA-CR-173801] 19 p3067 N84-29457
Present-day problems in identification of dynamic systems: A review
[ISSN-0208-5658] 19 p3082 N84-29555
Estimation of coefficients and boundary parameters in hyperbolic systems
[NASA-CR-172389] 19 p3082 N84-29562
On estimating a parameter and its score function
[CWI-MS-R8402] 19 p3091 N84-29632
Flight investigation of various control inputs intended for parameter estimation
[NASA-TM-85901] 20 p3131 N84-29884
Approximation techniques for parameter estimation and feedback control for distributed models of large flexible structures
[NASA-CR-172411] 20 p3135 N84-29903
System identification of structures with joint rotation
[PB84-192210] 20 p3205 N84-30357
Geodyn systems development
20 p3221 N84-30467
Input-output parametric models for nonlinear systems. Part 1: Deterministic nonlinear systems
[RR-251-PT-1] 20 p3263 N84-30844
Input-output parametric models for nonlinear systems. Part 2: Stochastic nonlinear systems
[RR-252-PT-2] 20 p3263 N84-30845
Unsteady aerodynamics of fast moving control surfaces
[BMFT-FB-W-84-020] 21 p3328 N84-31117
Method for designing future weapons systems: Example of the very short distance ground-air systems
21 p3350 N84-31250
Fundamental mechanisms of multi-phase flow erosion/corrosion of solid surfaces
[AD-A143041] 21 p3366 N84-31355
State estimation and parameter identification: An approach involving a pair consisting of the initial state and the trajectory
[INPE-3183-PRE/548] 21 p3471 N84-31995
Correlational estimation of parameters of solid state microwave devices 22 p3570 N84-32609
Mapping magnetized geologic structures from space: The effect of orbital and body parameters
[E84-10191] 22 p3614 N84-32695
Summary of research in applied mathematics, numerical analysis and computer science at the Institute for Computer Applications in Science and Engineering
[NASA-CR-172421] 22 p3633 N84-33024
Parameter estimation for the Euler-Bernoulli beam
[NASA-CR-172417] 22 p3645 N84-33107
New techniques for adjusting reference factors
[DE84-012649] 22 p3675 N84-33300
Optimizing parameters and controls for maneuvering flexible structures
[AD-A143726] 23 p3701 N84-33457
Determination of performance and stability characteristics from dynamic manoeuvres with a transport aircraft using parameter identification techniques
24 p3847 N84-34400
Application of advanced parameter identification methods for flight flutter data analysis with comparisons to current techniques 24 p3848 N84-34401
Identification of quasi-steady compressor characteristics from transient data
[NASA-CR-174685] 24 p3855 N84-34444
Identification and verification of frequency-domain models for XV-15 tilt-rotor aircraft dynamics
[NASA-TM-86009] 24 p3856 N84-34445
Parameter measurement methods for interfacing hydraulic systems with microelectronic instruments and controllers
[AD-A144208] 24 p3902 N84-34710
A new procedure of objective target cloud selection for the GMS cloud wind estimation system and the accuracy of the resultant wind vectors 24 p3921 N84-34819
On parameter identification and state estimation for distributed parameter systems
[INPE-3236-PRE/585] 24 p3949 N84-35004
Possible identifying characteristics of Be stars
24 p3976 N84-35185

PARAMETERIZATION
NT PARAMETER IDENTIFICATION
Advanced Hough transform implementations
[AD-A132522] 04 p0589 N84-13890
Experimental designs for quantal response models
[AD-A133416] 06 p0901 N84-15851
The 2-stage selection procedures based on tests
[AD-A133405] 06 p0904 N84-15871
Extensions and applications of a second-order landsurface parameterization
[NASA-CR-175144] 07 p1023 N84-16836
Parameterization of cloud effects on the absorption of solar radiation
[NASA-CR-175154] 07 p1035 N84-16712
Linear complementarity problems solvable by an efficient polynomially bounded pivoting algorithm
[AD-A136405] 09 p1374 N84-18977
The elements of the rotation matrices in terms of Rodriguez's parameters
[AD-A136550] 09 p1376 N84-18988
Research in VLSI systems
[AD-A137398] 10 p1486 N84-19715
Nonparametric statistics test software package
[AD-A137170] 11 p1708 N84-21132
An extension of the two-parameter logistic model to the multidimensional latent space
[AD-A137769] 11 p1713 N84-21173
On segmentation of digital images using spatial and contextual information via a 2-dimensional Markov model
[AD-A137942] 11 p1715 N84-21186
Measurement of the characteristic impedance of balanced twisted pairs using scattering parameters
11 p1725 N84-21250
A new parameterization of 15 micron radiative transfer for a GCM 12 p1858 N84-22105
A dynamical basis for the parameterization of organized deep convection in large-scale numerical models
12 p1859 N84-22111
Generalized convexity and concavity properties of the optimal value function in parametric nonlinear programming
[AD-A138220] 12 p1882 N84-22265
Some considerations in estimating data transformations
[AD-A137960] 12 p1893 N84-22329
Parameter estimation for the four parameter beta distribution
[AD-A138062] 12 p1893 N84-22333
The use of reciprocal polar co-ordinates in passive tracking
[AD-P002906] 13 p1981 N84-22860
Parametric and nonparametric Fast Kalman echo cancellation 13 p1987 N84-22901
Parameterization and approximation methods in feedback theory with applications in high gain, fast sampling and cheap optimal control
[RR-241] 13 p2031 N84-23167
Parametrization of the turbulent diffusion in the atmosphere using the turbulent energy equation(s) — pollution transport
[GKSS-83-E-60] 14 p2174 N84-24019
Requirements for validating system models
[AD-P002128] 16 p2525 N84-26214
Parametric studies of the T-38 student windshield using the finite element of code MAGNA (Materially and Geometrically Nonlinear Analysis)
[AD-P003232] 17 p2597 N84-26645
Parametrization of Fresnel returns in middle-atmosphere radar experiments 17 p2689 N84-27123
Parametrization of Fresnel returns
17 p2689 N84-27124
Parmeterization of spectra 17 p2696 N84-27170
Parameterization of spectrum
17 p2696 N84-27172

Selenicity as stochastic process with physical parameters 17 p2700 N84-27203
A new parameterization of an empirical model for wind/ocean scatterometry 17 p2712 N84-27269
Assessment of techniques for evaluating computer systems for Federal Agency procurements [PB84-176494] 17 p2756 N84-27496
A parametric analysis of HELSTAR [AD-A141143] 18 p2846 N84-28071
Report of the WMO/CAS expert meeting on atmospheric boundary layer parameterization over the oceans for long range forecasting and climate models [WCP-74] 18 p2884 N84-28297
The use of observational studies in the design of oceanic atmospheric boundary layer parameterizations in atmospheric circulation models, appendix E 18 p2884 N84-28300
Higher-order turbulence models including a cloud layer, appendix F 18 p2884 N84-28301
On mixed-layer models for the atmospheric boundary layer, appendix G 18 p2884 N84-28302
Note on the interaction of the cloud layer and ABL, appendix H 18 p2884 N84-28303
Comments on atmospheric boundary layer forcing of ocean models, appendix J 18 p2885 N84-28305
Parameterization of the ABL and OBL in a GFDL model, appendix M 18 p2885 N84-28308
Parameterization of the atmospheric boundary layer at ECMWF, appendix O 18 p2885 N84-28310
NEMAR plotting computer program [NASA-CR-165831] 18 p2920 N84-28516
Parameterization and shape of B-spline curves for CAD — computer aided design (CAD) 19 p3080 N84-29541
Error estimations and adaptive techniques for nonlinearized parametrized equations [AD-A142041] 19 p3088 N84-29607
Input-output parametric models for nonlinear systems. Part 1: Deterministic nonlinear systems [RR-251-PT-1] 20 p3283 N84-30844
Positive displacement compounding of a heavy duty diesel engine [NASA-CR-168286] 21 p3413 N84-31641
Bi- and poly-optimal confidence limits for a location and parameter [AD-A142980] 21 p3473 N84-32012
Strong confidence intervals: A compromise between the Gaussian and the slash [AD-A142981] 21 p3475 N84-32021
New techniques for adjusting reference factors [DE84-012649] 22 p3675 N84-33300
Robust confidence intervals for a scale parameter: A compromise between the Gaussian and the slash [AD-A143666] 23 p3820 N84-34223
In situ data 23 p3842 N84-34372
A boundary layer parameterization for a general model [AD-A144224] 24 p3915 N84-34791
Use of satellite data in a diagnostic parameterization of convective heating 24 p3925 N84-34844
On the estimation of the 1st-order autoregressive parameter [AD-A144284] 24 p3950 N84-35014

PARAMETERS
U INDEPENDENT VARIABLES

PARAMETRIC AMPLIFIERS
Double parametric oscillator — gravitational antennas [IFSI-83-1] 05 p0677 N84-14451
Demonstration of SQUID (Superconducting QUantum Interference Device) parametric amplifier [AD-A141326] 18 p2834 N84-27992
Resonant parametric transducer [IFSI-83-10] 18 p2835 N84-27995

PARAMETRIC OSCILLATORS
U PARAMETRIC AMPLIFIERS

PARASITES
Suggestions concerning technological research and development for the purpose of industrial use of marine algae [ISSN-0077-5606] 05 p0711 N84-14661

PARATHYROID GLAND
Structural distinctions of thyroid C cells and parathyroid glands of primates during head-down hypokinesia 15 p2377 N84-25263

PARITY
BCH codes for large IC random-access memory systems [NASA-CR-166549] 17 p2751 N84-27460
Usual initial and final state effects in quantum chromodynamics [DE84-010422] 21 p3495 N84-32148

PARKS
NT NATIONAL PARKS

PARSING ALGORITHMS
Flexible parsing [AD-A131495] 01 p0123 N84-10803
Mapping between semantic representations using Horn clauses [AD-A131531] 02 p0273 N84-11787
TREGRM-83 report and user's manual [AD-A132874] 05 p0729 N84-14789
Search algorithms and their implementation [AD-A135154] 08 p1219 N84-17953
Research on interactive acquisition and use of knowledge [AD-A137436] 10 p1568 N84-20270
A generator of recursive descent parsers for LL(k) languages [AD-A138061] 12 p1880 N84-22253
An algorithm for parsing flow graphs [AD-A142440] 20 p3273 N84-30773

PARTIAL DIFFERENTIAL EQUATIONS
NT BIHARMONIC EQUATIONS
NT BURGER EQUATION
NT ELLIPTIC DIFFERENTIAL EQUATIONS
NT EULER-CAUCHY EQUATIONS
NT FOKKER-PLANCK EQUATION
NT GAUSS EQUATION
NT HELMHOLTZ VORTICITY EQUATION
NT LIOUVILLE EQUATIONS
NT PARABOLIC DIFFERENTIAL EQUATIONS
A lifting surface theory in rotational flow [NASA-CR-172233] 01 p0002 N84-10017
A numerical method in solving a coupled thermoelasticity equation and some results [AD-A130183] 01 p0129 N84-10843
Solution manifolds and submanifolds of parametrized equations and their discretization errors [AD-A130186] 01 p0131 N84-10857
Adaptive mesh refinement for hyperbolic partial differential equations [AD-A130182] 01 p0131 N84-10859
Moving finite elements in 2-D [AD-A131279] 02 p0281 N84-11842
LLNL Basic Energy Sciences Program in numerical methods for partial differential equations [DE83-016531] 02 p0283 N84-11852
Adaptive finite element methods for parabolic partial differential equations [NASA-CR-174490] 03 p0417 N84-12727
Second order partial differential equations of mixed type 03 p0424 N84-12775
On differential equations of nonlocal elasticity and solutions of screw dislocation and surface waves [AD-A131911] 03 p0425 N84-12786
Construction and verification of a finite-element method for nonisothermal flows in porous media [DE83-017158] 04 p0536 N84-13522
On the singularities of certain nonlinear partial differential equations 04 p0575 N84-13787
On quasi-parabolic problems with normal boundary conditions 04 p0576 N84-13797
On L sup p-integrability in PDE's and quasiregular mappings for large exponents 04 p0576 N84-13799
A Numerov-Galerkin technique applied to a finite element shallow-water equations model with enforced conservation of integral invariants and selective lumping [CSIR-TWISK-276] 04 p0587 N84-13878
Averaging procedures of multiphase conservation equations [DE83-014696] 04 p0592 N84-13908
Moving finite elements in 2-D [AD-A132700] 05 p0738 N84-14831
Nonlinear Green's function method for transonic potential flow 06 p0779 N84-15104
The theory of an active magnetic regenerative refrigerator 06 p0821 N84-15351
Asymptotic analysis of numerical wave propagation in finite difference equations [NASA-CR-175323] 06 p0822 N84-15360
Solution of elastic and elasto-plastic problems by the method of lines 06 p0856 N84-15573
Numerical methods for tracking interfaces [DE84-001730] 06 p0902 N84-15854
Explicit second order splitting schemes for solving hyperbolic nonlinear problems: Theory and application to transonic flow [ESA-TT-788] 06 p0902 N84-15855
Variational methods in elasticity theory 07 p1030 N84-16681
Properties of solutions of ordinary and partial differential equations describing the motion of mechanical systems [ISSN-0208-5658] 07 p1058 N84-16852
Application of the method of lines for solutions of the Navier-Stokes equations using a nonuniform grid distribution [NASA-CR-173180] 07 p1060 N84-16870
Solution methods for large sparse linear systems [AD-A134529] 07 p1062 N84-16885
An accurate theory and simple fourth order governing equations for orthotropic and composite cylindrical shells [AD-A134532] 07 p1062 N84-16886
The dynamics of structured populations: Some examples [MC-TW-241/83] 07 p1064 N84-16906
On the stability of the cell size distribution [MC-TW-242/83] 07 p1065 N84-16907
Nonlinear partial differential equations and related problems of pade approximations [AD-A135110] 08 p1218 N84-17948
Control theory of hyperbolic systems [AD-A135146] 08 p1218 N84-17952
Analysis of adaptive differential PCM (Pulse-Code Modulator) of a stationary Gauss-Markov input [AD-A136518] 09 p1299 N84-18492
A singular perturbation analysis of the fundamental semiconductor device equations [AD-A136322] 09 p1373 N84-18964
Finite difference methods for the incompressible Navier-Stokes equations: A survey [AD-A136353] 09 p1374 N84-18969
The nonlinear filtering problem for the unbounded case [AD-A136501] 09 p1376 N84-18985
Problems solved and unsolved concerning linear and nonlinear partial differential equations [DE84-004990] 09 p1379 N84-19008
Mathematical algorithms to maximize performance in numerical weather prediction 10 p1558 N84-20209
Adaptive grid generation for numerical solution of partial differential equations [AD-A136985] 10 p1570 N84-20289
Optical analog & hybrid computer solution of partial differential equations [AD-A137028] 10 p1571 N84-20291
Stable convex sets of matrices [AD-A136659] 10 p1574 N84-20317
Entropy condition satisfying approximations for the full potential equations of transonic flow [NASA-TM-85751] 11 p1601 N84-20485
The present calculation method of adhering layers on aircraft wings [AD-A137585] 11 p1602 N84-20496
Numerical methods for partial differential equations [AD-A137624] 11 p1713 N84-21167
The Dirichlet-Neumann boundary control problem associated with Maxwell's equations in a cylindrical region [AD-A137937] 11 p1715 N84-21184
Minimax methods for indefinite functionals [AD-A137953] 11 p1716 N84-21190
Moving finite elements in 1-D: A review of the method and the coding experience [DE84-004821] 11 p1716 N84-21192
Differential games, optimal control and directional derivatives of viscosity solutions of Bellman's and Isaacs' equations [AD-A137939] 11 p1718 N84-21209
Semigroup associated with a quasi-linear system in which the coupling is linear [DE84-004227] 11 p1719 N84-21210
Developments in the theory of nonlinear first-order partial differential equations [AD-A138020] 12 p1893 N84-22332
Galerkin's method and stabilization method for variable type equations [PREPRINT-789] 12 p1895 N84-22346
Numerical methods for transient semiconductor device modelling [AD-A137970] 12 p1913 N84-22462
Active control of distributed structures 13 p1940 N84-22618
A middle latitude ionospheric model [CRPE-NT-114] 13 p2012 N84-23049
Asymptotics and numerics [AD-P002934] 14 p2196 N84-24174
On the extremum of bilinear functional for hyperbolic type P.D.E. [AD-P002942] 14 p2197 N84-24182
Analysis of the Von Karman equations by group methods [AD-P002948] 14 p2198 N84-24188
A finite difference method for any partial differential equation [AD-P002959] 14 p2200 N84-24199
Moving finite element research for shock hydrodynamics, continuum mechanics and combustion [AD-P002970] 14 p2201 N84-24206
Spectral methods for partial differential equations [AD-P002980] 14 p2202 N84-24216
Annals of the Fourier Institute, volume 33, no. 3 [ISSN-0373-0956] 14 p2210 N84-24284
Convex integration of non-linear systems of partial differential equations 14 p2210 N84-24271
Exact boundary conditions at an artificial boundary for partial differential equations in cylinders [AD-A139310] 14 p2213 N84-24292

The linear quadratic optimal control problem for infinite dimensional systems with unbounded input and output operators
[AD-A139333] 14 p2214 N84-24296
An approximate Newton method for coupled nonlinear systems
[AD-A139589] 14 p2214 N84-24300
Optical bistability in nonlinear media an exact method of calculation 14 p2236 N84-24414
Mathematical analysis 14 p2245 N84-24479
A perturbation method for self-coupled combustion-instability problems 15 p2317 N84-24904
MOLAG: A method of lines adaptive grid interface for nonlinear partial differential equations
[DE84-009161] 15 p2399 N84-25396
A semi-direct procedure using a local relaxation factor and its application to an internal flow problem
[NASA-TM-83704] 16 p2486 N84-25945
Pseudo-unsteady systems for steady inviscid flows
[ONERA-P-1983-4] 16 p2487 N84-25955
Generation of three dimensional grids through elliptic differential equations 16 p2491 N84-25983
The importance of dynamically-adaptive grids in the numerical solution of partial differential equations 16 p2492 N84-25984
Similarity transformations of the Euler equations and their numerical evaluation 16 p2540 N84-26306
Analysis of lateral and torsional vibration characteristics of beams and shafts with end located rotational masses
[NASA-TM-84593] 17 p2679 N84-27085
Study of the numerical solution of some diffusion problems using the finite element method
[INPE-3003-TDL/154] 17 p2757 N84-27504
Applications of spectral methods to turbulent magnetofluids in space and fusion research
[NASA-CR-173665] 17 p2757 N84-27505
Control theory of partial differential equations
[AD-A140945] 18 p2924 N84-28541
The postprocessing technique in the finite element method the theory and experience
[AD-A140953] 18 p2925 N84-28551
Special nonlinear optimization techniques
[AD-A141097] 19 p3063 N84-29564
Nonlinear partial differential equations and related problems of Pade approximations
[AD-A141519] 19 p3065 N84-29578
Random field satisfying a linear partial differential equation with random forcing term
[AD-A141886] 19 p3066 N84-29606
Control theory of partial differential equations
[AD-A142636] 20 p3279 N84-30812
Analysis and control of a class of stiff linear distributed systems
[AD-A142364] 20 p3280 N84-30821
On the extremum of bilinear functional for hyperbolic type partial differential equations
[AD-A142505] 20 p3281 N84-30828
Moving finite elements in 2-D. Technical report: Year 3
[DE84-006551] 20 p3282 N84-30840
Asymmetric Weiner-Poisson control
[AD-A142452] 20 p3283 N84-30848
Shock-free transonic airfoil design by a hodograph method
[AD-A142752] 21 p3325 N84-31098
Global solutions for the one-dimensional equations of a viscous reactive gas
[AD-A142931] 21 p3400 N84-31569
Weighted inequalities and degenerate elliptic partial differential equations
[AD-A142895] 21 p3472 N84-32007
Fundamental research in applied mathematics
[AD-A143123] 21 p3474 N84-32016
Normal modes of the NCAR (National Center for Atmospheric Research) Community Forecast Model (CFM)
[PB84-191220] 22 p3642 N84-33094
A remark on the Korteweg-de Vries equation
[PREPRINT-403] 23 p3819 N84-34218
The analytic structure of ordinary and partial differential equation
[AD-A144121] 24 p3950 N84-35011

PARTIAL PRESSURE

Properties of mercury-cadmium-telluride solid solutions
[AD-A130224] 01 p0156 N84-11025
Advanced air revitalization system testing
[NASA-CR-166540] 08 p1205 N84-17855
New technique for calibrating hydrocarbon gas flowmeters
[NASA-TM-85792] 16 p2495 N84-26007
Fugacity of gaseous hydrogen
[NLR-MP-83038-U] 17 p2669 N84-27019
Point defects and diffusion mechanisms in the monoxides of the iron-group metals
[DE84-012105] 21 p3505 N84-32210
Technique for measuring gas conversion factors
[NASA-CASE-LAR-13220-1] 22 p3598 N84-32786

PARTICLE ACCELERATION

Acceleration of heavy ions in the solar wind 03 p0474 N84-13118
Photon damping in cosmic-ray acceleration in active galactic nuclei
[DE83-011320] 03 p0476 N84-13133
Characteristics of gamma-ray line flares
[NASA-CR-174608] 04 p0621 N84-14098
Plasma particle acceleration due to emission of ground-based and onboard transmitters 05 p0636 N84-14181
On the relationship between collisionless shock structure and energetic particle acceleration
[NASA-CR-175328] 06 p0910 N84-15909
Non-stochastic acceleration of protons in the magnetic neutral sheet
[IPPJ-646] 06 p0919 N84-15975
Rapporteur paper for sessions MG1, MG3 and MG4: Modulation theory, interplanetary propagation and interplanetary acceleration
[NASA-TM-86047] 08 p1247 N84-18150
The ISPM cosmic-ray and solar-particle investigation 09 p1262 N84-18236
Proceedings of the 3rd International Workshop on Plasma Focus Research — conference
[IPF-83-6] 10 p1581 N84-20357
Macroscopic plasma behavior and charged particle acceleration in the plasma focus 10 p1581 N84-20363
Particle acceleration by electron plasma waves 10 p1582 N84-20369
Observation of nonlinear phenomena — in the plasma focus 10 p1584 N84-20385
The basic equations for a four component theory of turbulent magnetoplasmadynamics
[IPF-83-3] 12 p1911 N84-22453
Anomalous laser induced bunch lengthening on the ACO storage ring free electron laser
[AD-A138814] 13 p1995 N84-22949
Free-flyer biostack experiment 15 p2277 N84-24674
Particle acceleration by turbulent magnetohydro-dynamic reconnection
[NASA-TM-86121] 16 p2558 N84-26409
Acceleration and confinement of energetic particles in the 7 June 1980 solar flare
[NASA-CR-173545] 16 p2580 N84-26550
Collective ion acceleration by a reflexing electron beam: Model and scaling
[AD-A141241] 18 p2929 N84-28577
The dc acceleration of charged particles by an electrostatic wave propagating obliquely to a magnetic field vector B sub O
[IPPJ-671] 19 p3106 N84-29735
Elementary principles of linear accelerators
[DE84-007911] 20 p3294 N84-30913
The galactic acceleration of ultrahigh energy cosmic rays
[DE84-012442] 20 p3320 N84-31080
Photon losses in cosmic ray acceleration in active galactic nuclei
[DE84-012583] 20 p3321 N84-31081
Resonance and edge amplification of an electric field in a plasma resonance layer and acceleration of particles at plasma inhomogeneities 21 p3483 N84-32073
Three chamber negative ion source
[DE84-014505] 23 p3823 N84-34243
Solar Terrestrial Physics: Present and Future
[NASA-RP-1120] 23 p3836 N84-34332
Reconnection of magnetic fields 23 p3836 N84-34333
Particle acceleration 23 p3836 N84-34334
Investigation of ion beam production and acceleration using linear electron beams and a pulse powered plasma focus
[AD-A144525] 24 p3962 N84-35088

PARTICLE ACCELERATOR TARGETS

Thermal stability of four high-strength, high-conductivity copper sheet alloys
[DE83-013312] 01 p0045 N84-10288
Fusion materials irradiation test facility test-cell instrumentation
[DE83-012823] 01 p0085 N84-10552
Development of a focussing-crystal spectrograph for X-rays from laser-fusion targets
[DE83-012802] 01 p0148 N84-10973
Implications of heavy-ion-induced satellite X-ray emission. Part 2: Production of K and L X-rays by 0.9 to 2.6 MeV/u Ar ions in thick targets of V, Cu, Nb, Ta, and Pt
[DE83-015681] 03 p0453 N84-12982
A 650 mm long liquid hydrogen target for use in a high intensity electron beam
[DE84-007086] 12 p1902 N84-22389
Ablation accelerator (ABLAC) as driver for impact fusion
[IPPJ-668] 15 p2410 N84-25463
Modeling the interaction of high power ion or electron beams with solid target materials
[DE84-009126] 20 p3296 N84-30931
Engineering basis for selection of positron source material
[DE84-011772] 21 p3494 N84-32143
Prospect of polarized targets in electron rings
[DE84-014684] 23 p3823 N84-34245

PARTICLE ACCELERATORS

NT BETATRONS
NT CYCLIC ACCELERATORS
NT CYCLOTRONS
NT ELECTRON ACCELERATORS
NT ION ACCELERATORS
NT LINEAR ACCELERATORS
NT NIMROD ACCELERATOR
NT STORAGE RINGS (PARTICLE ACCELERATORS)
NT SYNCHROTRONS
NT VAN DE GRAAFF ACCELERATORS

Search for doubly-charged negative ions via accelerator mass spectrometry
[DE83-014321] 01 p0038 N84-10243
New control system for the SLAC accelerator klystrons for SLC
[DE83-012706] 01 p0073 N84-10480
Intense antiproton source for a 20 TeV collider
[DE83-012878] 01 p0142 N84-10934
The 80-micron particle acceleration in an expanding gas supplement
[AD-A130991] 02 p0218 N84-11426
Inverse free-electron laser accelerator
[DE83-016370] 02 p0228 N84-11493
Forming of magnetic fields with complex law of variation in time
[AD-A131128] 02 p0267 N84-11879
Operational factors in the design of the PBFA 2 accelerator
[DE83-013076] 02 p0290 N84-11900
The COMET: A 6-MV, 400-kJ, magnetically-switched pulse-power module
[DE83-013077] 02 p0290 N84-11901
Nucleon-nucleon interactions and polarized-beam (both proton and antiproton) facilities at LAMPF 2
[DE83-017215] 03 p0436 N84-12860
Low energy nuclear physics and accelerator development
[DE83-013384] 03 p0438 N84-12877
New statistical and non-statistical effects in deep inelastic heavy-ion collisions
[DE83-015732] 03 p0439 N84-12885
Applied-B ion diode experiments on PBFA 1
[DE83-017792] 03 p0447 N84-12942
Diagnosing the ion beam on the applied-B diode
[DE83-017822] 03 p0447 N84-12943
Control and operation cost optimization of the HISS cryogenic system
[DE83-017741] 04 p0515 N84-13384
High-sensitivity laser spectroscopy with atoms from a cooled helium jet
[DE84-000614] 04 p0540 N84-13554
Assessment of the adequacy of US accelerator technology for Department of Energy Missions
[DE84-001632] 04 p0598 N84-13945
New concepts in particle acceleration
[DE83-017747] 04 p0600 N84-13961
Acceleration of heavy ions in the AGS and CBA
[DE83-017762] 04 p0600 N84-13963
White Horse program review, FY 82
[DE84-002290] 05 p0745 N84-14896
Proceedings of the 1983 DPF Workshop on Collider Detectors: Present Capacities and Future Possibilities
[LBL-15973] 06 p0910 N84-15911
Search for Hadron jets and large transverse momentum electrons at the SPS pp collider 06 p0911 N84-15913
Trigger systems which could operate at a luminosity of 10/sup 33 cm(-2) to sec/sup -1 06 p0911 N84-15918
Detectors at 20 TeV and detector considerations for a high luminosity hadron-hadron machine 06 p0911 N84-15920
Finite geometry effects on the stability of a charged beam propagating through a relativistic annular electron beam
[AD-A133338] 06 p0915 N84-15948
Design and construction of the injector cyclotron (SPC1); the injection beamline and the Separated-Sector Cyclotron (SSC)
[NAC/AR-82-01] 07 p1074 N84-16976
Nonlinear resonance
[AD-A135117] 08 p1218 N84-17950
Numerical simulations of the NRL collective particle accelerator
[AD-A135533] 08 p1228 N84-18028

Experimental investigation of a Hall-current thruster
[NASA-CR-168133] 09 p1274 N84-18321
Ion extraction capabilities of two-grid accelerator systems
[NASA-CR-174621] 10 p1450 N84-19468
Prospects of the surfatron laser plasma accelerator
[DE84-005463] 11 p1738 N84-21336
Choice of IP geometry and beam parameters for the SSC
[DE84-006610] 12 p1903 N84-22390
Fault detection and protection system for neutral beam generators on the Neutral Beam Engineering Test Facility (NBETF)
[DE84-006634] 12 p1903 N84-22394
Dipole aperture and superconductor requirements
[DE84-006011] 12 p1916 N84-22483
Experience with development of sealed linear waveguide electron accelerators 13 p1969 N84-22780
Formation of negative ions by charge transfer: He(-) to Cl(-)
[DE84-005718] 13 p2041 N84-23243
RFQ development at LBL
[DE84-006762] 13 p2045 N84-23271
Energy loss of 24.8-MeV electrons by interacting with thick layers of C, Al, Cu, and Pb
[ETL-836] 13 p2046 N84-23277
Some optics alternatives for the FFS
[DE84-008255] 14 p2225 N84-24355
An integrating dosimeter for pulsed radiation
[AD-A141288] 18 p2844 N84-28062
How much random sextupole field can we have in the presence of beam-beam interactions
[DE84-009867] 19 p3102 N84-29709
A Bumpy Torus betatron
[AD-A141840] 19 p3107 N84-29742
Particel substructure. A common theme of discovery in this century
[DE84-006776] 19 p3113 N84-29782
A 6.5 Tesla SSC lattice example
[DE84-010719] 20 p3285 N84-30858
Comparison of some SSC beam parameters for pp and anti pp
[DE84-010729] 20 p3293 N84-30908
Observed current enhancement with propagation of the ETA electron beam in air
[DE84-010558] 20 p3293 N84-30909
New directions in linear accelerators
[DE84-011412] 20 p3294 N84-30911
A high current heavy ion beam transport experiment at LBL
[DE84-009225] 20 p3294 N84-30912
IEEE Transactions on Nuclear Science. Volume NS-30, no. 4, part 2: 1983 Particle Accelerator Conference
[DE84-007400] 20 p3294 N84-30914
Hypernuclear research at the AGS
[DE84-010282] 20 p3294 N84-30915
Accelerator-based atomic physics experiments with photon and ion beams
[DE84-010789] 20 p3296 N84-30928
Transverse field focused system
[DE84-011070] 20 p3298 N84-30942
Modern control techniques for accelerators
[DE84-012521] 21 p3494 N84-32140
Using ions to probe the transverse size of a bunch
[DE84-012772] 21 p3494 N84-32141
Design fabrication and testing of the BNL radio frequency quadrupole accelerator
[DE84-011915] 21 p3494 N84-32145
Further effects of ions in the arcs
[DE84-011761] 21 p3495 N84-32149
Adone parameters, beam structure and luminosity — particle acceleration
[DE84-012866] 22 p3653 N84-33154
Future of high energy physics
[DE84-013513] 22 p3654 N84-33165
Ultraviolet laser triggering of the 6 MV PBFA-2 gas switch
[DE84-014004] 23 p3755 N84-33802

PARTICLE BEAMS
NT ATOMIC BEAMS
NT ELECTRON BEAMS
NT ION BEAMS
NT MOLECULAR BEAMS
NT NEUTRAL BEAMS
NT NEUTRINO BEAMS
NT NEUTRON BEAMS
NT PROTON BEAMS
NT RELATIVISTIC ELECTRON BEAMS
Operational factors in the design of the PBFA 2 accelerator
[DE83-013076] 02 p0290 N84-11900
Emittance calculations for the Stanford linear collider injector
[DE83-011851] 02 p0290 N84-11904
PATH: A lumped-element beam-transport simulation program with space charge
[DE84-001330] 04 p0599 N84-13953
Physics with polarized beams in e+e(-) colliders
[DE83-016441] 04 p0602 N84-13976
Time-resolved beam-profile measurements on the Experimental Test Accelerator (ETA)
[DE84-002453] 07 p1072 N84-16969
The total field in collective bremsstrehlung in a nonequilibrium relativistic beam-plasma system
[AD-A136595] 10 p1585 N84-20391
Atomic collision data for beam probe diagnostics of magnetically confined high temperature plasmas 11 p1735 N84-21318
Pointing and tracking of particle beams
[AD-A136311] 12 p1902 N84-22385
Analysis of spacecraft charging, particle beams and geophysical data bases
[AD-A136632] 13 p1940 N84-22616
Activities report of the Institute for Extraterrestrial Physics 13 p2069 N84-23407
Theory of beam channel hydrodynamics
[AD-A139595] 14 p2229 N84-24365
Channel cooling by turbulent convective mixing
[AD-A139724] 15 p2410 N84-25486
Apparatus for measuring charged particle beam
[NASA-CASE-MFS-25641-1] 18 p2929 N84-28575
High energy channeling and its applications
[DE84-007251] 19 p3103 N84-29715
Proceedings of Collaborating Research Meeting on Particle-Beam Applications to Fusion Research
[IPPJ-678] 21 p3500 N84-32184
Adone parameters, beam structure and luminosity — particle acceleration
[DE84-012866] 22 p3653 N84-33154
Autogenerator of beams of charged particles
[DE84-014242] 22 p3654 N84-33163

PARTICLE COLLISIONS
Molecular-beam studies of photodissociation reactions
[DE83-015962] 02 p0226 N84-11492
New results for transition probabilities in two-level systems: The large detuning regime
[AD-A131783] 03 p0433 N84-12835
Statistical calculation of complete events in medium-energy nuclear collisions
[DE83-015951] 03 p0434 N84-12847
Jet production and high p/sub T/ phenomena in photon-photon reactions
[DE83-016397] 03 p0437 N84-12868
Operation of the Brookhaven MPS Facility
[DE83-015383] 03 p0441 N84-12896
Physics with polarized beams in e+e(-) colliders
[DE83-016441] 04 p0602 N84-13976
Simultaneous electron capture and excitation in ion-atom collisions
[DE83-005799] 06 p0910 N84-15907
Track chambers for high luminosity 06 p0912 N84-15921
TOF for heavy stable particle identification 06 p0913 N84-15936
Thermal electron heating rate: A derivation
[NASA-TM-85124] 06 p0914 N84-15941
Experimental studies of secondary ion emission from well-characterized surfaces
[AD-A133186] 06 p0914 N84-15943
Differences between positrons and electrons in elastic and inelastic processes at surfaces
[DE84-001206] 06 p0916 N84-15953
Collisional-radiative model for helium-like ions: Application to intermediate-density plasmas
[IPPJ-647] 06 p0919 N84-15976
Theoretical studies relating to the interaction of radiation with matter: Atomic collision processes occurring in the presence of radiation fields
[AD-A134299] 07 p1071 N84-16960
Energetics and collision dynamics of electronic transition lasers
[AD-A135894] 09 p1322 N84-18639
Neoclassical transport associated with collisionless detrapping in a bumpy torus
[IPPJ-651] 10 p1580 N84-20350
The kinetic equation in an imperfect ionized plasma
[IPPJ-656] 11 p1734 N84-21308
Future accelerators using micro-fabrication technology
[DE84-002692] 21 p3496 N84-32157
Representation of the Fokker-Plank collision term for Coulomb interaction as series of Legendre polynomials
[INPE-3232-PRE/582] 24 p3949 N84-35006
Numerical simulations of collisions in self-gravitating systems 24 p3987 N84-35237

PARTICLE COUNTERS
U RADIATION COUNTERS

PARTICLE DECAY
U RADIOACTIVE DECAY

PARTICLE DENSITY (CONCENTRATION)
NT CARRIER DENSITY (SOLID STATE)
NT ELECTRON DENSITY (CONCENTRATION)
NT ELECTRON DENSITY PROFILES
NT ELECTRON DISTRIBUTION
NT ION DENSITY (CONCENTRATION)
NT IONOSPHERIC ELECTRON DENSITY
NT IONOSPHERIC ION DENSITY
NT MAGNETOSPHERIC ELECTRON DENSITY
NT MAGNETOSPHERIC ION DENSITY
NT PLASMA DENSITY
Eulerian and Lagrangian predictions of particulate two phase flows
[KU-SFB-80/T/222] 05 p0682 N84-14481
Characterization of surface reflectance variation effects on remote sensing 12 p1832 N84-21944
Effects of mesoscale weather distrubances on contamination concentrations
[DE84-005753] 13 p2010 N84-23036
Theoretical studies of solid particles in laminar and turbulent flows
[KU-SFB-80/T/223] 14 p2146 N84-23883
The interaction of large space structures with the near-Earth environment
[AD-P002115] 16 p2523 N84-26201
Effects of system and geometrical parameters on the flow of Class-B solids in overflow standpipes
[DE84-013948] 22 p3594 N84-32782
Observation of advanced particle removal rates in pump limiter simulation experiments
[DE84-014327] 22 p3660 N84-33202
Development of particle sizing for highly concentrated colloidal dispersions using photon correlation spectroscopy
[BMFT-FB-T-84-117] 23 p3716 N84-33553

PARTICLE DETECTORS
U RADIATION COUNTERS

PARTICLE DIFFUSION
NT ELECTRON DIFFUSION
NT IONIC DIFFUSION
Effect of lower hybrid wave heating on alpha-particle dynamics
[IPPJ-649] 10 p1580 N84-20351
Discrete elements method of neutral particle transport
[AD-A138080] 12 p1902 N84-22384
Analysis of a fully discrete scheme for the neutron transport in cylindrical geometry
[CTH-MATH-1984-1] 13 p2041 N84-23246
Physical models and numerical methods of the reactor dynamic computer program RETRAN
[OEFZS-4272] 18 p2931 N84-28587
Trapped particle absorption by the Ring of Jupiter
[NASA-CR-173919] 22 p3679 N84-33323

PARTICLE EMISSION
NT ELECTRON EMISSION
NT FIELD EMISSION
NT ION EMISSION
NT NEUTRON EMISSION
NT PHOTOELECTRIC EMISSION
NT SECONDARY EMISSION
NT THERMIONIC EMISSION
Atlas of source emission particles
[PB83-229013] 01 p0103 N84-10672
Status of P714 - LAPDOG
[DE83-013613] 01 p0164 N84-11079
Analysis of beam interaction of the electrical thruster RIT 10 (particle emission) with surfaces
[DFVLR-FB-83-04] 02 p0185 N84-11202
Exhaust emissions from a diesel engine
[PB84-122910] 08 p1184 N84-17713
Maximum likelihood reconstruction in emission tomography with time-of-flight information: A limited study
[AD-A135061] 08 p1217 N84-17944
A diode model of high energy particle emission in the plasma focus device 10 p1582 N84-20368
Particle excitation, airglow and H2 vibrational disequilibrium in the atmosphere of Jupiter
[NASA-CR-173930] 23 p3843 N84-34383

PARTICLE ENERGY
NT ELECTRON ENERGY
NT ELECTRON STATES
Gravito-magnetic origin of the temperature of a stellar corona 15 p2421 N84-25545
Energy-resolving carbon resistance probes for plasma edge characterization
[DE84-012235] 20 p3306 N84-30997
About the formation of particle energy spectrum by the statistical mechanism of particle acceleration: The character of particle energy gain in the statistical acceleration mechanism 24 p3993 N84-35268

PARTICLE FLUX
U FLUX (RATE)

PARTICLE FLUX DENSITY
NT ELECTRON FLUX DENSITY
NT NEUTRON FLUX DENSITY

PARTICLE IN CELL TECHNIQUE

Energetic plasma-beam propagation in weak and strong magnetic fields
[DE84-001362] 04 p0607 N84-14005

Is there a good way to model spacecraft charging in the presence of space-charge coupling, flow and magnetic fields?
[AD-P002102] 16 p2521 N84-26188

Models of the ionospheric environment
[AD-P002121] 16 p2524 N84-26207

PARTICLE INTERACTIONS

NT CONFIGURATION INTERACTION
NT ELECTRON CAPTURE
NT ELEMENTARY PARTICLE INTERACTIONS
NT INTERSTELLAR CHEMISTRY
NT ION ATOM INTERACTIONS
NT MOLECULAR COLLISIONS
NT MOLECULAR INTERACTIONS
NT NUCLEAR CAPTURE
NT NUCLEAR INTERACTIONS
NT NUCLEON-NUCLEON INTERACTIONS
NT SPIN-ORBIT INTERACTIONS
NT STRONG INTERACTIONS (FIELD THEORY)
NT WEAK ENERGY INTERACTIONS
NT WEAK INTERACTIONS (FIELD THEORY)

Hadronic multiplicity distributions: Example of a universal stochastic mechanism
[DE83-015232] 03 p0434 N84-12845

Tau and B lifetime measurements from the MARK 2
[DE83-018219] 03 p0439 N84-12879

Cross sections relevant to gamma-ray astronomy: Alpha-particle-induced reactions
[DE83-015533] 03 p0461 N84-13038

Measurement of macroscopic plasma parameters with a radio experiment: Interpretation of the quasi-thermal noise spectrum observed in the solar wind
03 p0470 N84-13096

Survey of He(+)/He(2+) abundance ratios in energetic particle events 03 p0474 N84-13117

Positive ion-molecule reactions in OCS/hydrocarbon mixtures
[AD-A132350] 04 p0493 N84-13237

Problems and prospects in strange baryon spectroscopy
[DE83-018119] 04 p0496 N84-13253

Investigation of small particle trajectories through turbomachinery environments 05 p0630 N84-14142

New particles and interactions
[DE84-001444] 05 p0745 N84-14894

Searching for limitations in capability due to high average rates 06 p0911 N84-15919

Wave-particle interactions on relativistic electron beams
[AD-A134270] 07 p1009 N84-16545

Physics with LAMPF 2
[DE83-016338] 07 p1073 N84-16972

Physics, Computer Science and Mathematics Division
[DE84-003915] 09 p1418 N84-19278

Neoclassical transport associated with collisionless detrapping in a bumpy torus
[IPPJ-651] 10 p1580 N84-20350

Methods for describing the coexistence of competing degrees of freedom in a many body system
[CSIR-TWISK-298] 11 p1712 N84-21159

Feasibility study to conduct windblown sediment experiments aboard a space station
[NASA-CR-175434] 12 p1776 N84-21586

Modification of the near surface region metastable phases and ion induced reactions
[AD-A136842] 13 p1952 N84-22694

Hydrodynamic interactions between particles in low-Reynolds-number flow: A modular approach
[AD-A139269] 14 p2146 N84-23859

The interaction of large space structures with the near-Earth environment
[AD-P002115] 16 p2523 N84-26201

Atomic collisions and plasma physics
[AD-A141320] 18 p2660 N84-28286

Study of e-beam propagation in the ionosphere and magnetosphere
[AD-A142206] 19 p3054 N84-29380

Influence of collisions on the magnetized ion-ion instability
[AD-A141464] 19 p3101 N84-29696

Relativistic particle dynamics: Lagrangian proof of the no-interaction theorem
[DE84-009147] 19 p3102 N84-29707

Excitation of sound by light 20 p3285 N84-30863

Indiana University Theoretical Particle Physics Group
[DE84-010593] 20 p3293 N84-30903

Nuclear and particle physics aspects of hyperon and antinucleon interactions
[DE84-010793] 20 p3293 N84-30905

Photon losses in cosmic ray acceleration in active galactic nuclei
[DE84-012583] 20 p3321 N84-31081

Ion-molecule reactions and plasma parameters of positive column in oxygen glow discharge
21 p3476 N84-32036

Usual initial and final state effects in quantum chromodynamics
[DE84-010422] 21 p3495 N84-32148

Frequency conversion in photomultiplier during interaction of photoelectron beam and electric field in heterodyne 22 p3568 N84-32599

Cyclotron resonant scattering of energetic electrons by electromagnetic waves in the magnetosphere
22 p3621 N84-32946

Experiments on interaction of keV particle beams with the ionosphere
[AD-A143277] 22 p3623 N84-32957

Dynamic resonances in the reaction of fluorine atoms with hydrogen molecules
[DE84-013240] 23 p3823 N84-34242

Research studies on magnetohydrodynamic systems and modeling solar dynamical behavior
[AD-A143660] 23 p3844 N84-34389

Study of superfine interactions in amorphous chromium-containing alloys by Mossbauer spectroscopy
24 p3877 N84-34565

The movement of particles in liquid metals under gravity forces and the interaction of particles with advancing solid-liquid interface 24 p3882 N84-34594

About the formation of particle energy spectrum by the statistical mechanism of particle acceleration: The character of particle energy gain in the statistical acceleration mechanism 24 p3993 N84-35268

PARTICLE LADEN JETS

A theoretical and experimental study of turbulent particle-laden jets
[NASA-CR-168293] 04 p0485 N84-13187

Predictions of spray combustion interactions
11 p1609 N84-20532

PARTICLE MASS

NT ELECTRON MASS

Comparisons of rational engineering correlations of thermophoretically-augmented particle mass transfer with STAN5-predictions for developing boundary layers
[NASA-CR-168221] 10 p1471 N84-19606

Adone parameters, beam structure and luminosity — particle acceleration
[DE84-012866] 22 p3653 N84-33154

The basic concept of particle rest mass in a quantized relativistic universe
[ESA-STM-233] 23 p3832 N84-34303

PARTICLE MOTION

Optical means of measuring particle-sea interactions in the Caribbean Sea and Gulf of Mexico
[AD-A131290] 02 p0257 N84-11685

Experimental determination of the particle motions associated with the low order acoustic modes in enclosures
[NASA-CR-174542] 02 p0287 N84-11882

Erosion and transport of eolian materials on Mars
[NASA-CR-174569] 02 p0308 N84-12019

Investigation of small particle trajectories through turbomachinery environments 05 p0630 N84-14142

The Active Magnetospheric Particle Tracer Explorers (AMPTE) program 05 p0641 N84-14216

Ion coupling to magnetosheath bulk motion — Active Magnetospheric Particle Tracers Explorers (AMPTE) program 05 p0641 N84-14217

Particle simulation of drift waves in a sheared magnetic field
[DE84-004026] 09 p1393 N84-19093

Time-dependent Child-Langmuir diode simulation
[AD-A136964] 10 p1570 N84-20288

Effect of lower hybrid wave heating on alpha-particle dynamics
[IPPJ-649] 10 p1580 N84-20351

Feasibility study to conduct windblown sediment experiments aboard a space station
[NASA-CR-175434] 12 p1776 N84-21586

Laser studies of molecular dynamics
[AD-A138102] 12 p1820 N84-21864

Acid rain information book
[DE83-013883] 12 p1845 N84-22028

Measurement of hydroacoustic particle motion by hot-film anemometry
[AD-A138015] 12 p1901 N84-22383

Second order particle motion equations and linear chromaticity calculation in accelerator rings
[DE84-005895] 12 p1903 N84-22391

Plasma confinement in self-consistent, one-dimensional transport equilibria in the collisionless-ion regime of EBT operation
[DE84-001861] 19 p3108 N84-29751

Periodic and quasi-periodic motions in triple stellar systems 19 p3117 N84-29807

The influence of the relativistic character of the electron HF motion on the non-linear wave dynamics in plasmas
[IPPJ-676] 20 p3301 N84-30964

Theoretical studies of the pulsar magnetosphere
21 p3437 N84-31809

DYNASD user's manual. Nonlinear dynamic analysis of solids in three dimensions, revision 1
[DE84-012828] 21 p3486 N84-31979

Influence of exciton movement in magnetic field on luminescence. Indirect forbidden transitions in Ge
21 p3485 N84-32063

Propagation of nonlinear compression pulses through granular media 21 p3489 N84-32108

Dynamics of large molecules and molecular clusters
[AD-A143386] 22 p3560 N84-32542

The prediction of acoustical particle motion using an efficient polynomial curve fit procedure
[NASA-CR-173915] 22 p3651 N84-33145

Adone parameters, beam structure and luminosity — particle acceleration
[DE84-012866] 22 p3653 N84-33154

Free charged particle behavior in intense laser fields
[DE84-013700] 22 p3653 N84-33160

Modified Thomson parabola ion spectrometers for use in laser generated plasma experiments
[AD-A143298] 22 p3658 N84-33190

Behavior of orbits of two coupled oscillators
[DE84-013379] 22 p3659 N84-33197

Effects of neutrals on particle transport of a plasma
[IPPJ-681] 23 p3827 N84-34274

The movement of particles in liquid metals under gravity forces and the interaction of particles with advancing solid-liquid interface 24 p3882 N84-34594

PARTICLE PRECIPITATION

NT ELECTRON PRECIPITATION

PARTICLE PRODUCTION

NT KAON PRODUCTION
NT PAIR PRODUCTION

Very-high-energy nuclear physics
[DE83-013379] 01 p0146 N84-10957

Intense positron beams: Linacs; preworkshop copy
[DE83-012941] 01 p0146 N84-10958

Problems and prospects in strange baryon spectroscopy
[DE83-018119] 04 p0496 N84-13253

TOF for heavy stable particle identification
06 p0913 N84-15936

Laboratory studies of atomic collision processes
[AD-A137992] 12 p1901 N84-22382

Research in theoretical nuclear physics
[DE84-006976] 12 p1902 N84-22387

PARTICLE SIZE DISTRIBUTION

Atmospheric infrared backscatter:: Summary of present knowledge and recommendations for future work
[PB83-222261] 01 p0106 N84-10690

In-situ light scattering techniques for determining aerosol size distributions and optical constants
[AD-A131363] 01 p0148 N84-10970

Transmission electron microscopy characterization of microstructural features of Al-Li-Cu alloys
[NASA-TM-84384] 02 p0193 N84-11255

Measurements of atmospheric aerosols: Experimental methods and results of measurements off the east coast of the United States
[AD-A130998] 02 p0248 N84-11626

The melting spherical ice particles falling at terminal velocity in air: An experimental and theoretical study
02 p0252 N84-11647

Design and operation of a light-scattering device for sizing and velocimetry of large droplets
[DE83-902641] 03 p0377 N84-12456

Mechanical response of fluid-filled poroelastic solids
03 p0387 N84-12525

Coil planet centrifugation as a means for small particle separation
[NASA-TM-82561] 04 p0570 N84-13756

Lagrange gage studies of nonideal explosives containing NH-4NO-3
[AD-A132760] 05 p0661 N84-14347

Measurements of optical properties of particulates in an arid region
[AD-A132889] 05 p0709 N84-14644

Impact and explosion crater ejecta, fragment size, and velocity
[NASA-CR-174578] 05 p0733 N84-14813

Estimation of parameters for truncated distributions
[AD-A132605] 05 p0735 N84-14827

Development of theoretical models and analyses of the micro-physics of cloud and precipitation systems
[AD-A133557] 06 p0882 N84-15735

Determination of particle-size distribution by measuring the transmission of an aerosol in sedimentation
[AD-A133288] 06 p0918 N84-15962

Mie code AGAUS 82
[AD-A133489] 06 p0918 N84-15964

Powder fed sheared dispersal particle generator
[NASA-CASE-LAR-12785-1] 07 p1011 N84-16561

On the effect of fine grain size on the M sub s temperature in Fe-27Ni-0.025C alloys
[AD-A134807] 08 p1133 N84-17366
Influence of vibration grinding on the properties of tungsten powders and the quality of sintered pieces
[BLL-M-35373] 08 p1140 N84-17414
Microwave dielectric constant dependence on soil tension
[AD-A134851] 08 p1178 N84-17673
Particle sizing in a fuel-rich ramjet combustor
[AD-A135632] 09 p1257 N84-18204
Combustion of agglomerates formed by carbon slurry fuels
[AD-A136390] 09 p1278 N84-18345
Characterization of ceramic powders by an X-ray measuring method
[NASA-TM-77094] 09 p1286 N84-18398
Influence parameters of impact grinding mills
[NASA-TM-77352] 10 p1471 N84-19607
Water resources data Texas: Water year, 1982. Volume 1: Arkansas River Basin, Red River Basin, Sabine River Basin, Neches River Basin, Trinity River Basin and intervening coastal basins
[PB84-133271] 10 p1527 N84-20006
Predictions of spray combustion interactions
11 p1609 N84-20532
Abrasion by aeolian particles: Earth and Mars
[NASA-CR-3788] 11 p1628 N84-20654
Particle size distribution of typical ceramic raw materials by laser granulometry
[NASA-TM-77385] 11 p1636 N84-20696
Fuel effects on gas turbine engine combustion
[AD-A138385] 12 p1803 N84-21753
Proceedings of the Flat-Plate Solar Array Project Research Forum on Photovoltaic Metallization Systems
[NASA-CR-173477] 12 p1838 N84-21980
Effects of particle size distribution in thick film conductors 12 p1839 N84-21991
Particle size effects on viscosity of silver pastes: A manufacturer's view 12 p1839 N84-21992
An investigation of experimental techniques for obtaining particulate behavior in metallized solid propellant combustion 13 p1947 N84-22659
Inversion of experimental optical data
[AD-A138979] 13 p2043 N84-23257
Flame propagation in heterogeneous mixtures of fuel drops and air
[NASA-CR-174644] 14 p2131 N84-23775
Non-steady combustion of composite solid propellants
[AD-A139182] 14 p2132 N84-23776
The transfer function model: A computer program for determination of jet engine test cell exhaust particulates and opacity
[AD-A139222] 14 p2173 N84-24017
Multiple-foil microabrasion package (A0023)
15 p2276 N84-24666
Space debris impact experiment (S0001)
15 p2277 N84-24672
Grain refinement of commercial aluminum by niobium and zirconium additions to the melt
15 p2307 N84-24841
Aerosol characteristics on the Alboran sea, 9-18 october 1982
[AD-A139892] 15 p2371 N84-25227
Assessing the credibility of the calorific value of municipal solid waste
[PB84-175470] 16 p2474 N84-25861
Instantaneous concentration and velocity measurements through laser visualization associated with a digital processing system 16 p2491 N84-25978
Nova Aquilae 1982: The nature of its dust
16 p2572 N84-26504
Structure in the interstellar polarization curve and the nature of the polarizing grains 16 p2572 N84-26507
An investigation of experimental techniques for obtaining particulate behavior in metallized solid propellant combustion
[AD-A141044] 18 p2808 N84-27826
Size distribution of fragments forming during solid body destruction 18 p2863 N84-28175
A review of the silicon material task
[NASA-CR-173743] 18 p2868 N84-28210
Grinding kinetics and equilibrium states
[NASA-TM-77430] 19 p3002 N84-29025
A theoretical and experimental study of turbulent nonevaporating sprays
[NASA-CR-174668] 20 p3130 N84-29877
Analysis of particulates in the exhaust plume of a TF30 engine at military power
[AD-A142510] 20 p3131 N84-29882
Total aerosol volume computed from laser spectrometer particle-size data for comparison with flame photometer total-mass data
[AD-A143171] 21 p3359 N84-31306
Analysis and testing of a new method for drop size measurement using laser scatter interferometry
[NASA-CR-174636] 21 p3405 N84-31595
Method for the particle size independent spectrometric determination of metal particles in lubricating oils and hydraulic fluids
[AD-D011121] 22 p3545 N84-32445
Special features of the formation of a bed of polydispersed free-flowing materials
[BLL-M-35674-(5828.4)] 22 p3592 N84-32747
Aerosol measurements at an optical propagation site on the Outer Hebrides
[AD-A143564] 22 p3625 N84-32972
Mechanical properties of components made from powders received by processing low-grade porous titanium 23 p3707 N84-33500
Development of particle sizing for highly concentrated colloidal dispersions using photon correlation spectroscopy
[BMFT-FB-T-84-117] 23 p3716 N84-33553
An evaluation of the Malvern optical particle monitor
[DE83-017039] 23 p3751 N84-33775
Eolian quartz granulometry as a paleowind indicator in the Northeast Equatorial Atlantic, North Pacific and Southeast Equatorial Pacific 23 p3796 N84-34069
Saturn's rings: 3-mm low-inclination observations and derived properties
[NASA-TM-87363] 23 p3844 N84-34387
GASP cloud- and particle-encounter statistics and their application to LPC aircraft studies. Volume 1: Analysis and conclusions
[NASA-TM-85835] 24 p3923 N84-34828

PARTICLE SPIN
NT ELECTRON SPIN
NT NUCLEAR SPIN
Heavy-ion reaction mechanisms studied with the spin spectrometer
[DE83-015716] 01 p0144 N84-10950

PARTICLE THEORY
Theory of elementary particles
[DE83-015904] 03 p0437 N84-12871
Some double-valued representations of the linear groups
[DE84-001525] 04 p0593 N84-13913
Particle theory, cosmology and relativity
[DE84-003990] 11 p1760 N84-21489
Research program in elementary particle theory
[DE84-006867] 14 p2223 N84-24336
Matter antimatter domains: A possible solution to the CP domain wall problem in the early universe
[NASA-TM-86100] 15 p2425 N84-25565
Quarks
[TB-83-7] 19 p3100 N84-29694
Research program in elementary particle theory
[DE84-011502] 20 p3297 N84-30833

PARTICLE TRACKS
The problem of tracking charged particles in the cores of high energy jets in a high rate environment
06 p0911 N84-15916
Trigger systems which could operate at a luminosity of 10/sup 33 cm(-2) to sec/sup -1
06 p0911 N84-15918
Track chambers for high luminosity
06 p0912 N84-15921
A high-resolution study of ultra-heavy cosmic-ray nuclei (A0178) 15 p2275 N84-24661
Heavy ions in space (M0001)
15 p2275 N84-24662
Nuclear particle detection using a track-recording solid
16 p2900 N84-27788
Data needs for the track structure of alpha particles and electrons in water
[DE84-009154] 19 p3103 N84-29710
Modified Thomson parabola ion spectrometers for use in laser generated plasma experiments
[AD-A143298] 22 p3658 N84-33190

PARTICLE TRAJECTORIES
NT ELECTRON TRAJECTORIES
The high zenith angle limits of cosmic ray access to an Earth satellite
[AD-A130216] 01 p0166 N84-11092
Electron beam trajectory in a photometer field of view
[AD-A131949] 03 p0432 N84-12931
Energization of ions by oblique double layers
04 p0561 N84-13700
Investigation of small particle trajectories through turbomachinery environments 05 p0630 N84-14142
An investigation of cascade energy density effects using classical trajectory simulations of sputtering by molecular ions
[AD-A132539] 05 p0743 N84-14880
Proceedings of the 1983 DPF Workshop on Collider Detectors: Present Capacities and Future Possibilities
[LBL-15973] 06 p0910 N84-15911
Some statistical distributions of air particle trajectories near the ground in Finland
[ILMATIEDE-108] 07 p1035 N84-16718
The actual content of quantum theoretical kinematics and mechanics
[NASA-TM-77379] 07 p1083 N84-17046
Virtual cathode oscillations
[AD-A135128] 08 p1228 N84-18827
Nonlinear orbits in free-electron lasers with a linear magnetic wiggler and a strong axial magnetic guide field
[AD-A135984] 09 p1323 N84-18642
Foreign particles at a solidification front
[BMFT-FB-W-83-031] 10 p1495 N84-19777
Neoclassical transport associated with collisionless detrapping in a bumpy torus
[IPPJ-651] 10 p1580 N84-20950
Lie algebraic methods for particle tracking calculations
[DE84-004310] 11 p1716 N84-21196
Feasibility study to conduct windblown sediment experiments aboard a space station
[NASA-CR-175434] 12 p1776 N84-21586
The use of trajectories in short range weather forecasting
[KNMI-TR-35] 12 p1861 N84-22126
The geomagnetosystem: Charged particle trajectories in the geomagnetic tail 16 p2581 N84-26536
Drift movement of aerosol particles in field of atmospheric gravity waves 17 p2708 N84-27242
High energy channeling and its applications
[DE84-007251] 19 p3103 N84-29715
Numerical techniques for the prediction of flow induced orientation 22 p3591 N84-32743
Experiments on interaction of keV particle beams with the ionosphere
[AD-A143277] 22 p3623 N84-32957

PARTICLES
NT AEROSOLS
NT ALPHA PARTICLES
NT ANIONS
NT ANTINEUTRINOS
NT ANTIPARTICLES
NT ANTIPROTONS
NT ARGON PLASMA
NT BARYONS
NT BETA PARTICLES
NT BOSONS
NT CATIONS
NT CESIUM PLASMA
NT CHARGED PARTICLES
NT COLD PLASMAS
NT COLLISIONAL PLASMAS
NT COLLISIONLESS PLASMAS
NT CONDUCTION ELECTRONS
NT COSMIC PLASMA
NT CYCLOTRON RADIATION
NT CYLINDRICAL PLASMAS
NT DENSE PLASMAS
NT DEUTERONS
NT DROPS (LIQUIDS)
NT ELECTRON BEAMS
NT ELECTRON PLASMA
NT ELECTRON PRECIPITATION
NT ELECTRON RADIATION
NT ELECTRONS
NT ELEMENTARY PARTICLES
NT ENERGETIC PARTICLES
NT FAST NEUTRONS
NT FERMIONS
NT FERRIC IONS
NT FLAKES
NT FOG
NT FREE ELECTRONS
NT GLUONS
NT HADRONS
NT HEAVY NUCLEI
NT HELIUM PLASMA
NT HIGH ENERGY ELECTRONS
NT HIGH TEMPERATURE PLASMAS
NT HOT ELECTRONS
NT HYDROGEN PLASMA
NT HYPERNUCLEI
NT ION CYCLOTRON RADIATION
NT LASER PLASMAS
NT LEPTONS
NT LIGHT BEAMS
NT MAGNETIC MONOPOLES
NT MAGNETICALLY TRAPPED PARTICLES
NT MANGANESE IONS
NT MESONS
NT METAL IONS
NT METAL PARTICLES
NT METALLIC PLASMAS
NT MICROPARTICLES
NT MUONS
NT N ELECTRONS
NT NEGATIVE IONS

NT NEUTRAL PARTICLES
NT NEUTRINOS
NT NEUTRONS
NT NONEQUILIBRIUM PLASMAS
NT NONUNIFORM PLASMAS
NT NUCLEAR PARTICLES
NT NUCLEI (NUCLEAR PHYSICS)
NT ODD-EVEN NUCLEI
NT OXYGEN PLASMA
NT PARTONS
NT PHOTOELECTRONS
NT PHOTONS
NT PIONS
NT PLASMA CLOUDS
NT PLASMA FOCUS
NT PLASMA JETS
NT PLASMA LAYERS
NT PLASMA SHEATHS
NT PLASMA SLABS
NT PLASMAS (PHYSICS)
NT POLLEN
NT POSITRONS
NT POWDER (PARTICLES)
NT POWDERED ALUMINUM
NT PRIMARY COSMIC RAYS
NT PROTONS
NT QUARKS
NT RADIATION BELTS
NT RAINDROPS
NT RELATIVISTIC ELECTRON BEAMS
NT RELATIVISTIC PARTICLES
NT RELATIVISTIC PLASMAS
NT ROTATING PLASMAS
NT SOLAR COSMIC RAYS
NT SOLAR ELECTRONS
NT SOLAR NEUTRINOS
NT SOLAR PROTONS
NT SOLAR WIND
NT SOOT
NT STELLAR WINDS
NT STRONGLY COUPLED PLASMAS
NT THERMAL NEUTRONS
NT THERMAL PLASMAS
NT TOROIDAL PLASMAS
NT TRAPPED PARTICLES

Modeled heating and surface erosion comparing mottle (gas borne) and stationary (surface coating inert particle additives
[DE83-000597] 01 p0080 N84-10521

Numerical simulation of the velocity records from the SRI grout spheres experiment
[AD-A131267] 01 p0096 N84-10627

Particle impact erosion. Volume 3. User's manual chamber flowfield code (CFC) and Charring Material Ablation-Erosion (CMAE) code
[AD-A131007] 02 p0186 N84-11206

Particle impact erosion. Volume 4. User's manual erosion prediction procedure for rocket nozzle expansion region
[AD-A131008] 02 p0186 N84-11209

Measurements of optical properties of particulates in an arid region
[AD-A132689] 05 p0709 N84-14644

Status of research in progress at the Inhalation Toxicology Research Institute
[DE83-012610] 06 p0875 N84-15694

Scattering and absorption of light by soot particles
[DE84-002308] 06 p0918 N84-15967

Look at techniques for the dimensional calibration of standard microscopic particles
[PB84-112648] 08 p1126 N84-17324

General path-integral successive-collision solution of the bounded dynamic multi-swarm problem
[AD-A136961] 10 p1570 N84-20267

Effect of solid particles on the turbulent flow of a round gaseous jet: A mathematical and experimental study
[DE84-005830] 11 p1653 N84-20794

Atmospheric aerosol research for FY 82
[DE84-004308] 11 p1676 N84-20937

Toward a complete inventory of stratospheric dust particles with implications and their classification
11 p1756 N84-21464

Temperature, concentration, and size measurements in turbulent reactive flows 13 p1943 N84-22633

An investigation of experimental techniques for obtaining particulate behavior in metallized solid propellant combustion 13 p1947 N84-22659

Hydrodynamic interactions between particles in low-Reynolds-number flow: A modular approach
[AD-A139269] 14 p2146 N84-23859

Study of particulate formation and radiant heat loss in direct injection-type diesel engines
[PB84-160100] 15 p2344 N84-25073

Holographic investigation of solid propellant combustion particles
[AD-A140168] 16 p2496 N84-26016

Fluctuation of velocity distribution under influence of suspended particles on turbulence in bottom current
17 p2699 N84-27191

An investigation of experimental techniques for obtaining particulate behavior in metallized solid propellant combustion
[AD-A141044] 18 p2808 N84-27826

A survey of gas-side fouling measuring devices
[NASA-CR-173734] 18 p2836 N84-28003

Void-particulate director
[DE84-011300] 20 p3190 N84-30282

Partitioning of toxic trace metals between solid and liquid phases in the Great Lakes
[PB84-177849] 20 p3230 N84-30525

A simple DWBA (Franck-Condon) treatment of H-atom transfers between two heavy particles
[AD-A143867] 23 p3822 N84-34236

New method in elementary particle detection
[AD-A144057] 23 p3822 N84-34240

GASP cloud- and particle-encounter statistics and their application to LPC aircraft studies. Volume 1: Analysis and conclusions
[NASA-TM-85835] 24 p3923 N84-34828

PARTICULATE FILTERS
U FLUID FILTERS

PARTICULATE SAMPLING

Prediction of erosive wear by solid particles in a turbulent curved-channel flow
[DE83-012896] 01 p0061 N84-10524

The geographic and statistical analysis of air quality data in the United States
[DE83-016471] 02 p0244 N84-11596

Bioassay of particulate organic matter from ambient air
[PB83-239731] 02 p0267 N84-11754

The movement of water droplets in clouds around the nose of an atmospheric research aircraft
[NASA-TM-77358] 07 p1001 N84-16491

Inertial Upper Stage (IUS) Solid Rocket Motor (SRM) core flow sampling at high altitudes
[AD-A134997] 08 p1121 N84-17288

Optical measurements of soot size and number density in a complex flow, swirl-stabilized combustor
15 p2292 N84-24753

Opacification of high temperature fibrous insulation
[NASA-CR-166578] 21 p3356 N84-31285

Analysis of polynuclear aromatic hydrocarbons in particulate matter by luminescence techniques
[PB84-181882] 21 p3363 N84-31333

High-efficiency particulate air filter behavior at high-speed flows
[DE84-014137] 22 p3595 N84-32769

An evaluation of the Malvern optical particle monitor
[DE83-017039] 23 p3751 N84-33775

PARTITIONS (MATHEMATICS)

Problems with the process partitioning theory of stratocumulus entrainment 12 p1857 N84-22099

Sorting by recursive partitioning
[AD-A141583] 19 p3077 N84-29524

PARTONS

Angular coverage of detectors
06 p0914 N84-15940

Backward moving Altarelli-Parisi equations for transverse momentum calculations in jets
[ILL-(TH)-84-10] 11 p1712 N84-21164

PARTS
U COMPONENTS

PASCAL (PROGRAMMING LANGUAGE)

Concurrent Pascal for RSX-11M
[HEDL-TME-82-46] 01 p0120 N84-10777

Some efficient random number generators for micro computers
[AD-A134558] 07 p1053 N84-16815

PASCAL/48 reference manual
[NASA-TM-85752] 08 p1211 N84-17900

Implementation and evaluation of a core graphics system on a VAX 11/780 computer with a UNIX operating system
[AD-A138406] 12 p1882 N84-22271

PASCAL packages for ASC II file I/O and CDC and dynamic strings
[PHL-1983-16] 12 p1884 N84-22285

An introduction to the scientific computing language PASCAL-SC (PASCAL for Scientific Computation)
[AD-A139316] 14 p2205 N84-24235

The PASCAL-HDM verification system
15 p2386 N84-25314

HDM/PASCAL verification system user's manual
15 p2387 N84-25315

Advanced application of the printed circuit board testability design and rating system
[AD-A141147] 18 p2834 N84-27989

PASCAL statistical procedures package (PSPP)
[AD-A141049] 18 p2921 N84-28524

A concurrent PASCAL implementation on a Rolm 1664
[NLR-MP-83035-U] 18 p2922 N84-28531

PAS/NEB: A PASCAL language tool for the MCF (Military Computer Family)
[AD-P003535] 21 p3332 N84-31139

Introduction to PASCAL language
[INPE-2888-PRE/408] 23 p3814 N84-34182

PASCAL-MP: A language for the algebraic and numerical manipulation of polynomials
[INPE-3057-PRE/477] 23 p3814 N84-34183

PASSAGEWAYS
NT TRANSFER TUNNELS

Vortex generating flow passage design for increased film cooling effectiveness
[NASA-CASE-LEW-14039-1] 11 p1651 N84-20782

Review and status of heat-transfer technology for internal passages of air-cooled turbine blades
[NASA-TP-2232] 12 p1814 N84-21828

PASSENGER AIRCRAFT
NT A-300 AIRCRAFT
NT BOEING 707 AIRCRAFT
NT BOEING 727 AIRCRAFT
NT BOEING 737 AIRCRAFT
NT BOEING 747 AIRCRAFT
NT CESSNA 210 AIRCRAFT
NT CV-990 AIRCRAFT
NT DC 10 AIRCRAFT
NT EUROPEAN AIRBUS
NT IL-62 AIRCRAFT
NT JETSTREAM AIRCRAFT
NT L-1011 AIRCRAFT

USSR report: Transportation, no. 126
[JPRS-84457] 01 p0001 N84-10001

Mininster Bugayev promises improved Aeroflot services 01 p0001 N84-10002

Deputy Minister Svechnikov on civil aviation construction projects 01 p0001 N84-10003

Companion trainer aircraft: Concept test
[AD-A131378] 02 p0268 N84-11757

Semiannual report to Congress on the effectiveness of the civil aviation security program
[AD-A134860] 08 p1100 N84-17156

Developments in cabin safety and crashworthiness — passenger aircraft 08 p1101 N84-17161

Safety standards on small passenger aircraft with nine or fewer seats are significantly less stringent than on larger aircraft
[PB84-142033] 12 p1767 N84-21526

PASSENGERS

Ride quality meter
[NASA-CASE-LAR-12882-1] 03 p0375 N84-12445

An analysis of potential protective breathing devices intended for use by aircraft passengers
[AD-A132648] 05 p0716 N84-14692

Effects on rail transport caused by air transport supply alternatives within the Federal Republic of Germany for the year 2000
[DFVLR-MITT-83-14] 08 p1101 N84-17160

Airport activity statistics of certificated route air carriers
[AD-A137418] 10 p1424 N84-19313

Safety recommendations A-84-12 and -13
16 p2444 N84-25677

Report to Congress on the effectiveness of the Civil Aviation Security Program
[AD-A143023] 21 p3326 N84-31103

PASSIVATION
U PASSIVITY

PASSIVE L-BAND RADIOMETERS

Utilization of active microwave roughness measurements to improve passive microwave soil moisture estimates over bare soils 23 p3770 N84-33898

Passive microwave characteristics of the Bering Sea ice cover during Marginal Ice Zone Experiment (MIZEX) West 23 p3773 N84-33917

Surface based brightness temperatures of sea ice in the Bering and Greenland Seas
23 p3773 N84-33918

PASSIVE SATELLITES
NT LAGEOS (SATELLITE)

PASSIVITY

Temperature limitation of primary and secondary alkaline battery electrodes
[DE83-015009] 02 p0214 N84-11404

Chemical properties of metallic glasses
[DE83-017353] 03 p0357 N84-12322

In-situ photoacoustic spectrometry for corrosion studies
[DE84-001994] 04 p0496 N84-13254

International Meeting on Lithium Batteries
[AD-A132371] 04 p0525 N84-13455

Potentiostatic investigation of the kinetics of the breakdown of the passivity of aluminium in aqueous medium
[BLL-OA-TRANS-3066-(6196.3)] 06 p0604 N84-15238
Effects of water on the cathode passivation by lithium dithionite in the Li/SO2 battery
[DE84-003103] 07 p0998 N84-16473
Corrosion behavior of Ni(+)-ion irradiated NiTi alloys
[DE84-003891] 09 p1285 N84-18392
High density circuit technology
[NASA-CR-162039] 19 p3012 N84-29089
Process Research of Polycrystalline Silicon Material (PROPSM)
[NASA-CR-173935] 23 p3789 N84-34033
Passivation of amorphous alloys with various phosphorus contents 24 p3873 N84-34542

PASTE (CONSISTENCY)
Particle size effects on viscosity of silver pastes: A manufacturer's view 12 p1839 N84-21992
Pastes of superhard materials (review of inventions)
[CSIR-TRANS-1741] 22 p3552 N84-32491
Development of metallization process
[NASA-CR-173956] 23 p3786 N84-34014
Development of metallization process
[NASA-CR-173943] 23 p3789 N84-34031

PASTES
Pressure filtration of ceramic pastes. 4: Treatment of experimental data
[NASA-TM-77454] 19 p2997 N84-28992
Development of an all-metal thick film cost effective metallization system for solar cells
[NASA-CR-173760] 19 p3049 N84-29350

PATENT APPLICATIONS
Spectrum analyzer and analysis method for measuring power and wavelength of electromagnetic radiation
[AD-D011044] 19 p3027 N84-29196
NASA patent abstracts bibliography, a continuing bibliography. Section 1: Abstracts (Supplement 25)
[NASA-SP-7039(25)-SECT-1] 21 p3516 N84-32272
NASA Patents Abstracts bibliography: A continuing bibliography. Section 2: Indexes (supplement 25)
[NASA-SP-7039(25)-SECT-2] 22 p3669 N84-33257

PATENT POLICY
NASA patent abstracts bibliography. Section 1: Abstracts. A continuing bibliography
[NASA-SP-7039(23)-SECT-1] 03 p0458 N84-13017
NASA Patent Abstracts Bibliography. Section 2: Indexes. A continuing bibliography (supplement 23)
[NASA-SP-7039(23)-SECT-2] 03 p0456 N84-13018
Further delineation of the utilization of scientific literature by U.S. patents
[PB84-100734] 08 p1238 N84-18095
NASA patent abstracts bibliography. Section 1: Abstracts
[NASA-SP-7039(24)-SECT-1] 10 p1592 N84-20432
Patent abstracts bibliography, a continuing bibliography. Section 2: Indexes
[NASA-SP-7039(24)-SECT-2] 10 p1592 N84-20433
USSR report: Science and technology policy
[JPRS-UST-84-004] 13 p2064 N84-23387
Incentives for new production discussed 13 p2064 N84-23388

PATENTS
USSR report: Science and technology, no. 19
[JPRS-84497] 01 p0054 N84-10348
Improvements noted in patent information system for CEMA member-countries 01 p0158 N84-11038
Stirling engine patents: International patent inventory
[DE84-002378] 04 p0545 N84-13592
Design patents
[PB83-224063] 05 p0760 N84-14985
Further delineation of the utilization of scientific literature by U.S. patents
[PB84-100734] 08 p1238 N84-18095
Further delineation of the utilization of scientific literature by U.S. patents. Appendices A: Distribution of references contained in patents to various sources
[PB84-100742] 08 p1239 N84-18096
Licensing computer software: Basic considerations as to protection and licensing of computer software and its implications for developing countries
[PB84-150689] 12 p1866 N84-22295
NASA patent abstracts bibliography, a continuing bibliography. Section 1: Abstracts (Supplement 25)
[NASA-SP-7039(25)-SECT-1] 21 p3516 N84-32272
Pastes of superhard materials (review of inventions)
[CSIR-TRANS-1741] 22 p3552 N84-32491
Coatings on diamond and CBN abrasives (review of inventions)
[CSIR-TRANS-1742] 22 p3557 N84-32525
Ten year trends in US technological dependence on foreign technology as indicated by referencing from US patents. Appendix
[PB84-196997] 22 p3669 N84-33255
Ten year trends in US technological dependence on foreign technology as indicated by referencing from US patents
[PB84-197003] 22 p3669 N84-33256
NASA Patents Abstracts bibliography: A continuing bibliography. Section 2: Indexes (supplement 25)
[NASA-SP-7039(25)-SECT-2] 22 p3669 N84-33257

PATHOGENESIS
The effect of smoking on the non-specific resistance of the organism of seamen at sea 08 p1199 N84-17816

PATHOGENS
Rapid microbial identification by circular intensity differential scattering
[DE84-013894] 22 p3629 N84-32993

PATHOLOGICAL EFFECTS
Handling of hydrazine in the Royal Danish Air Force 22 p3631 N84-33014

PATHOLOGY
NT HUMAN PATHOLOGY
Study of biological samples obtained from victims of MGM Grand Hotel fire 04 p0514 N84-13374
The 1980 and 1981 accident experience of civil airmen with selected visual pathology
[AD-A134898] 08 p1101 N84-17158

PATHS
An investigation of methods for computing long path atmospheric transmittance
[AD-A136434] 09 p1345 N84-18785
Path relaxation: Path planning for a mobile robot
[AD-A141779] 19 p3032 N84-29229

PATTERN DISTRIBUTION
U DISTRIBUTION (PROPERTY)

PATTERN METHOD (FORECASTING)
Forecasters handbook for the Middle East/Arabian Sea
[AD-A134312] 07 p1039 N84-16739
Two-level compromise designs for estimating main effects and detecting interactions
[DE84-002997] 08 p1238 N84-18094
Weather pattern climatology of the US
[DE84-005883] 11 p1668 N84-21011
Rand's experience in applying artificial intelligence techniques to strategic-level military-political war gaming
[P-6977] 22 p3649 N84-33137
Scenario planning: Energy considerations in the long range urban transportation planning process
[DE84-013590] 22 p3677 N84-33308

PATTERN RECOGNITION
NT CHARACTER RECOGNITION
Lateral variations in geologic structure and tectonic setting from remote sensing data
[AD-A130758] 01 p0105 N84-10683
Neurocognitive pattern analysis
[AD-A131302] 01 p0114 N84-10740
Clustering of the least squares lattice PARCOR (partial correlation) coefficients: A pattern-recognition approach to steady state synthetic vowell identification
[AD-A131503] 01 p0134 N84-10876
Image Understanding, 14th Workshop
[AD-A130251] 01 p0147 N84-10963
Investigation of air transportation technology at Princeton University 02 p0169 N84-11108
Determining attitude of object from needle map using extended Gaussian image
[AD-A131617] 02 p0240 N84-11571
High-speed digital signal normalization for feature identification
[NASA-TM-85719] 02 p0270 N84-11767
An extremum principle for shape from contour
[AD-A131321] 02 p0272 N84-11780
The Gordon Research Conference on Holography and Optical Information Processing
[AD-A129137] 02 p0293 N84-11923
Optical systems and statistical optics
[AD-A131297] 02 p0294 N84-11928
Proceedings of the NASA Symposium on Mathematical Pattern Recognition and Image Analysis
[E84-10032] 03 p0392 N84-12557
Autoregressive models for use in scene segmentation 03 p0393 N84-12561
Image matching using generalized Hough transforms 03 p0394 N84-12569
Relating spatial patterns in image data to scene characteristics 03 p0394 N84-12573
First results of the evaluations of the European SAR 580 data for agricultural and forestry purposes in test site D6, Freiburg (West Germany) 03 p0398 N84-12599
Mesocyclone detection and classification algorithm
[AD-A131826] 03 p0411 N84-12691
Generating three-dimensional surface models of solid objects from multiple projections
[AD-A132392] 04 p0580 N84-13824
Advanced Hough transform implementations
[AD-A132522] 04 p0589 N84-13890
Advanced pattern recognition
[AD-A132339] 04 p0604 N84-13967
Model of the behavior of the human visual system for the perception of contour elements — image processing
[FUB-44-1982] 05 p0714 N84-14677
Picking up an object from a pile of objects
[AD-A133631] 05 p0716 N84-14691
The smoothest velocity field and token matching schemes
[AD-A133633] 05 p0732 N84-14809
Battery lifetime prediction by pattern recognition application to lead-acid battery life-cycling test data
[AD-A133281] 06 p0629 N84-15397
Eddy detection within turbulent shear flows 06 p0637 N84-15453
Moment estimators of defect pattern frequencies, allowing for inspection error
[AD-A133487] 06 p0655 N84-15568
Application of a feature selection technique to samples of high resolution synthetic aperture radar imagery
[AD-A135006] 08 p1143 N84-17438
Evaluation of published criteria for identifying metamorphic rocks on air photos: Two case studies in the northeastern United States
[AD-A135451] 08 p1177 N84-17672
Pattern recognition and image processing review
[AD-B084815] 08 p1211 N84-17897
Optical data processing for missile guidance
[AD-A136216] 09 p1254 N84-18188
Basic research in electronics (JSEP) Joint Services Electronics Program
[AD-A136290] 09 p1306 N84-18538
Detection of bright spots in seismic signal using pattern recognition techniques
[AD-A136210] 09 p1346 N84-18793
The effect of structured contextual tones on psychophysical frequency discrimination
[AD-A135433] 09 p1353 N84-18903
A versatile parallel image processor system
[AD-A136292] 09 p1385 N84-18910
Classification methods: An introductory survey 09 p1408 N84-19204
Some aspects in pattern recognition 09 p1412 N84-19238
Pattern formation by shock processes
[DE83-015249] 10 p1489 N84-19592
Processing of optical gray value patterns
[BMFT-FB-DV-83-003] 10 p1579 N84-20348
Celestial pattern recognition allowing autonomous earth-surface or deep-space positioning
[AD-A138115] 12 p1788 N84-21529
Employment of adaptive learning techniques for the discrimination of acoustic emissions
[AD-A138142] 12 p1899 N84-22366
Image filtering with Boolean and statistical operators
[AD-A138421] 12 p1908 N84-22428
Machine vision: Three generations of commercial systems
[AD-A139037] 13 p2024 N84-23123
Industry official on progress in Soviet robotics program 14 p2155 N84-23915
Biochemical studies on the initiation of odor sensing
[AD-A129926] 14 p2184 N84-24085
Picking parts out of a bin
[AD-A139257] 14 p2187 N84-24106
Evidence accumulation for spatial reasoning in aerial image understanding
[AD-A139874] 15 p2336 N84-25025
Limits of pattern discrimination in human vision
[AD-A139921] 15 p2379 N84-25278
Visual organization and information processing
[PB84-170778] 15 p2384 N84-25295
The advantages of abstract control knowledge in expert system design
[AD-A139978] 15 p2396 N84-25370
Edge analyzing properties of center/surround response functions in cybernetic vision
[NASA-TM-85809] 16 p2484 N84-25927
Evaluation of entropy and JM-distance criterions as features selection methods using spectral and spatial features derived from LANDSAT image
[E84-10141] 16 p2507 N84-26089
Cartographic feature extraction on ETL's (Engineer Topographic Laboratories') DIAL (Digital Image Analysis Laboratory) system
[AD-A140230] 16 p2511 N84-26112
PAME Proceedings, Pattern Analysis in the Marine Environment, An Ocean Science and Technology Workshop
[AD-A140195] 16 p2532 N84-26257
Fourier shape analysis: A multivariate pattern recognition approach
[AD-P003118] 16 p2532 N84-26259
Fuzzy algorithms for pattern recognition
[AD-P003119] 16 p2533 N84-26260

Principal components as a method for atmospherically correcting coastal zone color scanner data
[AD-P003124] 16 p2533 N84-26265

Statistical methods of pattern recognition
[ISBN-2-7225-0694-7] 16 p2544 N84-26330

Implementation of cellular-logic operators using 3 x 3 convolution and table look-up hardware
[NLR-MP-83039-U] 17 p2750 N84-27454

Cloud cover typing from environmental satellite imagery. Discriminating cloud structure with Fast Fourier Transforms (FFT)
[NASA-CR-173727] 18 p2883 N84-28296

Interactions of motion perception with pattern perception
[AD-P003363] 18 p2913 N84-28476

Eye movements and spatial pattern vision
[AD-A140949] 18 p2914 N84-28481

Pattern recognition for Space Applications Center director's discretionary fund
[NASA-TM-82586] 18 p2951 N84-28710

Automated search for control images on photographs of Earth's surface using spectral analysis
19 p2978 N84-28874

Review of research under the Joint Services Electronics Program
[AD-A141458] 19 p3013 N84-29100

Registration of a LANDSAT image to DTM (Digital Terrain Matrix): An error analysis
[AD-A141766] 19 p3041 N84-29297

Uniform apparent contrast noise: A picture of the noise of the visual contrast detection system
[NASA-TM-85867] 19 p3067 N84-29456

Interactive Signal and Pattern Analysis and Recognition Systems (ISPARS). Users' guide
[AD-A141421] 19 p3075 N84-29514

Program descriptions for Interactive Signal and Pattern Analysis and Recognition System (ISPARS)
[AD-A141575] 19 p3077 N84-29522

LANDSAT scene-to-scene registration accuracy assessment
20 p3212 N84-30405

An initial analysis of LANDSAT-4 Thematic Mapper data for the discrimination of agricultural, forested wetland, and urban land covers
20 p3213 N84-30414

Suggestion for a cartographic pattern recognition system using digital raster data processing methods
20 p3227 N84-30509

Fundamental remote science research program. Part 2: Status report of the mathematical pattern recognition and image analysis project
[NASA-TM-58280] 21 p3430 N84-31782

Quantitative assessment of role of spatial frequencies of images in visual recognition of numbers
21 p3455 N84-31928

An automatic syntheses of hardware algorithm
22 p3563 N84-32568

Image identification by method of integral fluctuations
22 p3566 N84-32601

Computer vision for real-time orbital operations. Center directors discretionary fund
[NASA-TM-86457] 22 p3640 N84-33076

Analyses on the low voltage free electron laser
[AD-A143661] 23 p3754 N84-33796

The time it takes to see
24 p3914 N84-34782

Development of texture descriptions for images
24 p3914 N84-34785

Optical processing, its role in surveillance
24 p3915 N84-34788

PATTERN REGISTRATION

Visualization of patterns corresponding to the Fourier components of a vibration by interference holography
[TPD-1982-0-1] 02 p0222 N84-11453

Image matching using generalized Hough transforms
03 p0394 N84-12569

Analysis of subpixel registration accuracy
03 p0394 N84-12570

Progress in the scene-to-map registration investigation
03 p0394 N84-12572

Coincident extraction of line objects from stereo image pairs
[AD-A133892] 05 p0697 N84-14576

CCRS proposal for evaluating LANDSAT-4 MSS and TM data
[E84-10096] 10 p1522 N84-19966

LANDSAT-4 MSS interband registration
10 p1523 N84-19969

LANDSAT-MSS multitemporal registration — Ottawa, Canada
10 p1523 N84-19970

Remote sensing of agricultural crops and soils
[E84-10107] 12 p1829 N84-21825

Investigation of several aspects of LANDSAT-4 data quality — Sacramento, San Francisco, and NE Arkansas
[E84-10122] 14 p2167 N84-23961

The use of an image registration technique in the urban growth monitoring
[E84-10147] 16 p2508 N84-26095

Evaluation of SIR-A (Shuttle Imaging Radar) images from the Tres Marias region (Minas Gerais State, Brazil) using derived spatial features and registration with MSS-LANDSAT images
[E84-10148] 16 p2508 N84-26096

AN/TPQ-36 and AN/TPQ-37 firefinder radars case study report (IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Research and Maintainability) study
[AD-A142104] 19 p3007 N84-29058

PATTERNS

Issues critical to the application of adaptive array antennas to missile seekers
[AD-A133401] 06 p0824 N84-15371

Analysis of a Cassegrain antenna having a Gaussian illumination pattern
[REPT-S-147] 15 p2320 N84-24927

Mathematics of multidart probability predictions
[AD-A140745] 17 p2760 N84-27526

Conformal array analysis
[AD-P003504] 21 p3384 N84-31472

PAVEMENTS

Evaluating and quantifying user perception of pavement serviceability
[PB83-207306] 01 p0058 N84-10375

Sulfur extended asphalt pavement evaluation in the State of Washington: SR 270 highway pavement performance report
[PB83-205567] 01 p0058 N84-10380

Sulfur extended asphalt pavement evaluation: Executive summary
[PB83-205971] 01 p0058 N84-10381

Prestressed pavement accelerated testing program
[PB83-225763] 01 p0059 N84-10385

Evaluation of innovative concepts relating to prestressed concrete pavements, volume 5
[PB83-222349] 01 p0059 N84-10386

Optimization of long range major rehabilitation of airfield pavements
02 p0182 N84-11181

Determination of the Pavement Classification Number (PCN) of airfields
[ISBN-3-87977-0530] 02 p0182 N84-11185

Detection of cavities under concrete pavement
[AD-A131851] 03 p0358 N84-12331

Relationship of Benkelman beam deflection as measured by Florida method to those measured by AASHTO method T-256-77, P-13-79
[PB83-252973] 05 p0694 N84-14557

Microwave methods and apparatus for paving and paving maintenance
[DE84-016306] 06 p0822 N84-15359

Revised procedure for pavement design under seasonal frost conditions
[AD-A134480] 07 p0986 N84-16384

Investigation of the FAA overlay design procedures for rigid pavements
[AD-A135317] 09 p1259 N84-18222

Development of a stress-dependent finite element slab model
[AD-A135836] 09 p1332 N84-18694

Repair and restoration of paved surfaces. Phase 2: Backfilling of craters
[AD-A135745] 10 p1471 N84-19610

Vibration exposures concerning the drivers of trucks and vehicles operated by Rodotigre
10 p1552 N84-20173

The behavior of a slag base pavement structure at P39/1, Erasmia under heavy vehicle simulator loading
[RP/5/82] 11 p1839 N84-20716

Development of probabilistic rigid pavement design methodologies for military airfields
[AD-A138212] 12 p1804 N84-21760

Engineering fabrics in transportation construction
[PB84-144656] 12 p1804 N84-21763

FY85 technical objectives document
[AD-A137987] 12 p1917 N84-22493

Criteria for use of asphalt friction surfaces
[PB84-155613] 14 p2135 N84-23798

The performance of civil airport pavement with lime-cement-flyash base course
[FAA-PM-84-10] 19 p2969 N84-28815

Response and performance of contingency airfield pavements containing stabilized material layers
[AD-A141466] 19 p2969 N84-28817

A study of thermal properties and the heating process in asphaltic concrete
[AD-A141691] 19 p3035 N84-29254

Microprocessor automation for the Dynaflect Deflection Measuring System
[PB84-180413] 20 p3171 N84-30135

Multi-variate acceptance plans for flexible airport pavements
21 p3345 N84-31220

Surplus Facilities Management Program. Post-remedial-action survey report for SNAP-8 Experimental Reactor Facility, building 010 site, Santa Susana Field Laboratories, Rockwell International, Ventura County, California
[DE84-009591] 21 p3497 N84-32165

Evaluation of the pavement condition index for use on porous friction surfaces
[AD-A144521] 24 p3857 N84-34453

PAYLOAD ASSIST MODULE

Innovative method for the thermal cycling of large spacecraft systems
24 p3861 N84-34470

PAYLOAD CONTROL

Geometric modeling of large space antenna deployment
12 p1876 N84-22225

A passively controlled appendage deployment system for the San Marco D/L spacecraft
15 p2347 N84-25081

Design and test of a low-temperature liner driver/rate controller
15 p2347 N84-25083

PAYLOAD DELIVERY (STS)

IMCS reflight certification requirements and design specifications
[NASA-CR-170968] 08 p1102 N84-17167

Space station needs, attributes and architectural options. Part 1: Summary
[NASA-CR-175382] 09 p1267 N84-18270

Space station needs, attributes and architectural options study. Briefing material: Final review and executive summary
[NASA-CR-173321] 09 p1267 N84-18273

PAYLOAD DEPLOYMENT & RETRIEVAL SYSTEM

NT REMOTE MANIPULATOR SYSTEM

PAYLOAD INTEGRATION PLAN

Payload missions integration
[NASA-CR-170902] 01 p0027 N84-10171

Payload missions integration
[NASA-CR-170949] 06 p0794 N84-15171

PAYLOAD STATIONS

The thermal design of the European complement of first Spacelab mission (FSLP)
[MBB-UR-645-83-O] 16 p2563 N84-26442

PAYLOAD TRANSFER

Orbital propulsion module system configuration study. Volume 1: Executive summary
[S/DT/YA-25-030-VOL-1] 08 p1120 N84-17282

Orbital propulsion module system configuration study, volume 2
[S/DT/YA-25-030-VOL-2] 08 p1120 N84-17283

The 16th Aerospace Mechanisms Symposium
[NASA-CP-2311] 15 p2346 N84-25078

Space reactors: What is a kilogram?
[DE84-012656] 22 p3655 N84-33169

PAYLOADS

NT ATMOSPHERIC GENERAL CIRCULATION EXPERIMENT
NT EARTH RADIATION BUDGET EXPERIMENT
NT GEOPHYSICAL FLUID FLOW CELLS
NT HALOGEN OCCULTATION EXPERIMENT
NT OSS-1 PAYLOAD
NT OSTA-1 PAYLOAD
NT OSTA-2 PAYLOAD
NT SEPAC (PAYLOAD)
NT SPACE SHUTTLE PAYLOADS
NT SPACEBORNE EXPERIMENTS
NT SPACELAB
NT SPACELAB PAYLOADS
NT STARLAB
NT X RAY ASTROPHYSICS FACILITY

Ascent air data system results from the space shuttle flight test program
01 p0020 N84-10125

Modification of wing design to increase lift for future Airbus derivatives (NEW)
[BMFT-FB-W-83-005] 02 p0178 N84-11167

A balloon design for 9000 pounds at 90,000 feet: Recommendations based on heavy-load balloon history
[AD-A131987] 03 p0320 N84-12093

LACV-30 increased payload study
[AD-A133804] 05 p0663 N84-14355

High-speed, low-altitude payload delivery using a single large ribbon parachute
[DE84-002731] 06 p0783 N84-15128

High altitude aerodynamic platform concept evaluation and prototype engine testing
[NASA-TM-58256] 07 p0953 N84-16182

Payload missions integration
[NASA-CR-170977] 09 p1260 N84-18225

Space Station needs, attributes and architectural options. Volume 2, book 1, part 2, task 1: Mission requirements
[NASA-CR-173313] 09 p1270 N84-18297

Space Station needs, attributes and architectural options. Volume 2, book 1, part 4: Payload element mission data sheets
[NASA-CR-173315] 09 p1270 N84-18299

Space Station needs, attributes and architectural options, volume 2, book 2, part 4: International reports
[NASA-CR-173319] 09 p1271 N84-16303
A Variable Conductance Heat Pipe (VCHP) radiator system for communications payloads
10 p1440 N84-19406
Further analysis of yawsonde data from some liquid payload projectiles
[AD-A137256] 11 p1653 N84-20791
Guide for designing pyrotechnics systems for payloads on manned or unmanned vehicles
[SNIAS-NT-2-01(0)] 12 p1803 N84-21757
Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-15429-1] 13 p1939 N84-22609
The electron Echo 6 mechanical deployment systems
15 p2348 N84-25094
The next generation of reentry vehicles: NASA's view
16 p2441 N84-25658
West Europe report: Science and technology
[JPRS-WST-84-018] 17 p2640 N84-26888
Second Ariane launch pad at Kourou, Belgian participation 17 p2640 N84-26889
The Z3 model of Saturns magnetic field and the Pioneer 11 vector helium magnetometer observations
[NASA-TM-86118] 17 p2776 N84-27623
Get away special experimenter's symposium
[NASA-CP-2324] 18 p2799 N84-27758
Results of the Purdue University GAS-1 payload
18 p2799 N84-27760
Arc discharge convection studies: A Space Shuttle experiment 18 p2799 N84-27761
Getaway Special competition: Overview
18 p2799 N84-27764
Space station needs, attributes, and architectural options: Brief analysis
[NASA-CR-173695] 18 p2803 N84-27791
A study of space station needs, attributes and architectural options. Volume 2: Technical. Book 1: Mission requirements. Appendixes 1 and 2
[NASA-CR-173769] 18 p2805 N84-27805
Space station needs, attributes, and architectural options. Volume 1. Executive summary
[NASA-CR-173710] 18 p2806 N84-27816
Shuttle payload improvement by low risk modifications to the OMS engine 20 p3138 N84-29925
The liquid bipropellant stage concept: Filling the OTV gap 20 p3140 N84-29936
Columbia: The first 5 flights entry heating data series. Volume 5: The side fuselage and payload bay door
[NASA-CR-171732] 22 p3541 N84-32416
The development of a high-capacity instrument module heat transport system, appendixes
[NASA-CR-175260] 22 p3592 N84-32750
Payload crew training complex simulation engineer's handbook
[NASA-TM-86465] 23 p3814 N84-34186

PBB
U POLYBROMINATED BIPHENYLS

PCB
U POLYCHLORINATED BIPHENYLS

PCM (MATERIALS)
U PHASE CHANGE MATERIALS

PCM (MODULATION)
U PULSE CODE MODULATION

PDM (MODULATION)
U PULSE DURATION MODULATION

PDP COMPUTERS
NT PDP 8 COMPUTER
NT PDP 11 COMPUTER
NT PDP 11/70 COMPUTER
A data management system for digital raster maps
19 p3041 N84-29292

PDP 8 COMPUTER
FPP1, A floating point package for PDP-8 computers
[AD-A134236] 07 p1054 N84-16828
DSP1, a Diffractometer Subroutine Package for PDP-8 computers
[AD-A137458] 10 p1563 N84-20241

PDP 11 COMPUTER
Control of the HP3325 frequency synthesizer by a PDP 11 computer for gravitational experiments — gravitational antennas, geophysical studies
[IFSI-83-9] 05 p0683 N84-14492

PDP 11/70 COMPUTER
I and W (Indications and Warning) data base management systems analysis
[AD-A139339] 14 p2247 N84-24497

PEARLITE
The redistribution of silicon during the spheroidizing annealing of iron
[BLL-M-35167-(5828.4)] 01 p0040 N84-10257
Influence of the base metal on the wear-resistance of high-strength cast iron
[BLL-M-35504-(5828.4)] 12 p1796 N84-21712
Hydrogen effects on cleavage fracture in fully pearlitic 1080 steel 17 p2621 N84-26778
Directional growth of pearlite in Fe-C eutectiod alloys
[DE84-007368] 20 p3156 N84-30042

PEAT
Alaska's mineral resources
[DE83-016599] 03 p0401 N84-12623
Alaska's mineral resources
[DE84-006918] 14 p2170 N84-23998

PECULIAR STARS
NT SYMBIOTIC STARS
IUE-high resolution of ONV-stars
24 p3976 N84-35180
Observed particularities during the eclipse of Epsilon Aurigae 24 p3960 N84-35214

PEDALS
Electromyographic analysis of the peroneous longus during bicycle ergometry across work load and pedal type
[AD-A132550] 05 p0712 N84-14666

PEDIMENTS
U PIEDMONTS

PEDIPLAINS
U PIEDMONTS

PEDOLOGY
U SOIL SCIENCE

PEELING
The peel strength of aramid aluminum laminate (ARALL)
[VTH-LR-397] 12 p1790 N84-21673

PEENING
NT SHOT PEENING
Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] 11 p1632 N84-20670

PEGASUS ENGINE
U BRISTOL-SIDDELEY BS 53 ENGINE

PELLETS
Fueling of fusion devices by pellet injection: Development in the USA
[DE83-013706] 01 p0151 N84-10990
Hydrogen pellet injection into Alcator C
[DE83-016878] 04 p0609 N84-14018
Contactless pellet fabrication
[NASA-CASE-NPO-15592-1] 07 p1069 N84-16940
Absolutely uniform illumination of laser fusion pellets
[AD-A138944] 13 p1995 N84-22951

PELTIER EFFECTS
Use of Peltier effect for small signal amplification and conversion 20 p3286 N84-30864

PENALTIES
Asymptotic behaviors of the solution of an elliptic equation with penalty terms
[AD-A130473] 01 p0131 N84-10658
Sufficiency of exact penalty minimization
[AD-A134559] 07 p1063 N84-16896

PENALTY FUNCTION
Use of an exact penalty function for optimization of discrete problems
[INPE-2769-PRE/342] 04 p0588 N84-13883
Constrained function minimization. Comparison of the augmented Lagrangian and sequentially increasing penalty method
[PB83-217265] 06 p0903 N84-15863

PENDULOUS GYROSCOPES
U GYROSCOPIC PENDULUMS

PENDULUMS
NT GYROSCOPIC PENDULUMS
Universality and fractal dimension of mode locking structure in systems with competing periodicities
[DE83-017352] 03 p0390 N84-12545
Digital instrumentation package or an improved torsion pendulum
[PB83-240424] 04 p0539 N84-13547

PENETRANTS
Penetrant and magnetic-particle inspection for material integrity
[DE83-017830] 04 p0546 N84-13600

PENETRATION
Modified QKLOOK program, change 1
[AD-A131507] 01 p0067 N84-10567
Diffusion and sorption of cyclohexane vapor in SBS and SBR copolymers
[AD-A132397] 04 p0506 N84-13315
Measurement of melt line penetration and heat flux during arc spot welding
[DE84-002013] 13 p1997 N84-22962
Weld penetration variations
[DE84-007915] 13 p1998 N84-22963
Optmization of breakwater lengths in relation to wave penetration
[PUBL-312] 15 p2360 N84-25160
Characterizing shaped charge by stand-off behavior
[MBB-UA-693-83-O] 16 p2564 N84-26448
Ground penetrating radar: A review of its application in the mining industry, information circular 1984
[PB84-178292] 20 p3176 N84-30172
The penetration model of Dehn — terminal ballistics
[PML-1984-5] 20 p3199 N84-30316

PENETRATION BALLISTICS
U TERMINAL BALLISTICS

PENINSULAS
NT DELMARVA PENINSULA (DE-MD-VA)

PENNING DISCHARGE
Dual arc penning ion source gas flow experiments
[DE84-011637] 21 p3495 N84-32151

PENNSYLVANIA
Evaluation of LANDSAT-4 TM and MSS ground geometry performance without ground control
[E84-10022] 01 p0099 N84-10644
Combined use of remote sensing and seismic observations to infer geologically recent crustal deformation, active faulting, and stress fields — California and Pennsylvania
[E84-10057] 06 p0864 N84-15629
Synthesis of regional crust and upper-mantle structure from seismic and gravity data
[E84-10061] 06 p0864 N84-15631
The Pennsylvania defoliation application pilot test
[E84-10111] 13 p2004 N84-23004
An analysis LANDSAT-4 Thematic Mapper geometric properties 20 p3210 N84-30392
Forms of large folds in the Central Appalachians, Pennsylvania 23 p3795 N84-34066
Local climatological investigation of wind fields in the lower Monongahela Valley of Allegheny County, Pennsylvania 23 p3799 N84-34068

PENS
Preliminary evaluation of the light pen as the key component in a microcomputer-based simulator
[AD-A132596] 05 p0719 N84-14712

PENTACHLORIDES
U CHLORIDES

PENTAERYTHRITOL TETRANITRATE
U PETN

PENTANES
Capillary supercritical fluid chromatography of polycyclic aromatic compounds
[DE84-002939] 07 p0972 N84-16302

PENTOBARBITAL
Benzodiazepine effects on arousal threshold during sleep
[AD-A133151] 07 p1047 N84-16792

PENTOSE
NT RIBOSE

PEOPLES DEMOCRATIC REPUBLIC OF GERMANY
U EAST GERMANY

PEPTIDES
NT POLYPEPTIDES
Chemical and physical characterization of the activation of ribulosebiphosphate carboxylase/oxygenase
[DE83-017226] 04 p0571 N84-13764

PERCENTAGE
U RATIOS

PERCEPTION
NT AUDITORY PERCEPTION
NT BINAURAL HEARING
NT CONSCIOUSNESS
NT MOTION PERCEPTION
NT OLFACTORY PERCEPTION
NT PAIN
NT PROPRIOCEPTION
NT SENSORY PERCEPTION
NT SOUND LOCALIZATION
NT SPACE PERCEPTION
NT VISUAL DISCRIMINATION
NT VISUAL PERCEPTION
Language processing for speech understanding
[AD-A131281] 01 p0065 N84-10423
Integrated Cuing Requirements (ICR) study: Feasibility analysis and demonstration study
[AD-A131039] 01 p0117 N84-10758
Representations of perceptions of risks
[AD-A131443] 01 p0117 N84-10759
The perceptual component of relationships in library networks 06 p0934 N84-16070
A method of measurement of behavioral factors affecting information systems design and use: An application of multidimensional scaling in uncovering individual psychological structure 08 p1239 N84-18099
Effect of inspiratory muscle fatigue on perception of added loads in humans 10 p1548 N84-20150
Performance consistency on a perceptual-motor task as a correlate of achievement motivation
[AD-A135933] 10 p1552 N84-20170
Performance in dual tasks
[AD-A138603] 14 p2186 N84-24096
Perception of the movement of visual scenes during horizontal body rotation
[NAL-TR-787] 16 p2538 N84-26292

Correlation between individual alpha-rhythm parameters and operator's performance while subjected to maximum information input 21 p3453 N84-31909
Determination of factors affecting performance and productivity in an engineering/design environment [AD-A143315] 22 p3669 N84-33252
Analysis of reward functions in learning: Unconscious information processing: Noncognitive determinants of response strength [AD-A144152] 24 p3937 N84-34920

PERCEPTUAL ERRORS
Physiological assessment of capacity for processing increasing amounts of visual information by human operators 17 p2740 N84-27396
Effects of emotional and perceptual-motor stress on a voice recognition system's accuracy: An applied investigation [AD-A142554] 20 p3175 N84-30160

PERCHLORATES
NT AMMONIUM PERCHLORATES
NT POTASSIUM PERCHLORATES
Dielectric relaxation in poly(ethylene oxide) complexed with alkali metal perchlorates [AD-A134464] 07 p0970 N84-16284
Effect of pressure on conductivity in Poly(Ethylene oxide) complexed with alkali metal salts [AD-A134562] 07 p0970 N84-16285

PERFECT GAS
U IDEAL GAS

PERFLUORO COMPOUNDS
NT PERFLUOROALKANE
Fluoroether modified epoxy composites [NASA-CASE-ARC-11418-1] 02 p0187 N84-11213
Process for preparing perfluorotriazine elastomers and precursors thereof [NASA-CASE-ARC-11402-1] 13 p1961 N84-22744

PERFLUOROALKANE
Thermal oxidative degradation reactions of perfluoroalkiethers [NASA-CR-168224] 02 p0189 N84-11229

PERFORATED PLATES
The effect of perforation on the aerodynamics of a spoiler [BU-296] 15 p2255 N84-24545
Strains in an elastic plate containing an interference-fit bolt near a free edge [AR-003-012] 20 p3201 N84-30333

PERFORATED SHELLS
Contributions to the theory of sound propagation in ducts with bulk-reacting lining [NLR-MP-83064-U] 17 p2763 N84-27551

PERFORMANCE
Motivating managers: A guide to performance targeting and performance-based pay in state and local governments [PB83-237834] 02 p0301 N84-11978
Passive-solar performance: Summary of 1981-1982 class B results [DE83-009407] 03 p0405 N84-12650
A general computer model for predicting the performance of gas sorption refrigerators 06 p0820 N84-15349
The study of an idealized wing/body junction [AD-A139933] 15 p2257 N84-24559
Massed practice: Does it change the statistical properties of performance tests? [AD-A139336] 15 p2363 N84-25294
Edge Stabilized Ribbon (ESR); stress, dislocation density and electronic performance 18 p2937 N84-28630

PERFORMANCE PREDICTION
NT PREDICTION ANALYSIS TECHNIQUES
Flight test derived heating math models for critical locations on the orbiter during reentry 01 p0023 N84-10147
Shuttle TPS thermal performance and analysis methodology 01 p0025 N84-10160
Space shuttle orbiter leading-edge flight performance compared to design goals 01 p0025 N84-10161
General 3rd Airborne antenna radiation pattern code users manual [AD-A130359] 01 p0121 N84-10790
Survey of error propagation in systems [DE83-009817] 01 p0134 N84-10878
Prediction of impact force and duration during low velocity impact on circular composite laminates [NASA-TM-85703] 02 p0188 N84-11219
Overview of state-of-the-art flywheel technology 03 p0344 N84-12231
Numerical modelling methods for predicting antenna performance on aircraft 03 p0365 N84-12375
The SSME seal test program: Leakage tests for helically-grooved seals [NASA-CR-170921] 03 p0383 N84-12495
A study of critical factors affecting the development of performance measures in evaluating bibliographic information retrieval systems 03 p0460 N84-13030
Acoustic modelling and analysis of pulsating combustion in a gas-fired pulse burner 04 p0594 N84-13921
Range performance calculations using the NVEOL-Georgia Tech Research Institute 0.1- to 100-GHz radar performance model [AD-A133581] 05 p0667 N84-14387
Reliability programs for nonelectronic designs, volume 1 [AD-A133624] 05 p0689 N84-14529
Optimal symmetric flight with an intermediate vehicle model 07 p0943 N84-16117
Estimating the performance of telecommunication systems using the ionospheric transmission channel. Ionospheric communications analysis and prediction program user's manual [PB84-111210] 08 p1147 N84-17468
One year of stars, provided by the IRAS cryogenic system 10 p1442 N84-19416
Progress toward the development of an aircraft icing analysis capability [NASA-TM-83562] 11 p1601 N84-20490
Dry chemical development: A model for the extinction of hydrocarbon flames [AD-A137952] 11 p1628 N84-20656
Performance evaluation of sensors [AD-P002675] 11 p1657 N84-20812
Air-to-ground HF (High Frequency) propagation prediction model for fast multicircuit computation [PB84-145961] 12 p1810 N84-21802
Mechanical face seal technology: A literature survey [AD-A138434] 12 p1822 N84-21881
Time to Line Crossing (TLC): A new method to describe driving performance [IZF-1983-10] 12 p1867 N84-22165
Optimal control model applications and field measurements with respect to car driving [IZF-1983-18] 12 p1892 N84-22324
Comparison between measured turbine stage performance and the predicted performance using quasi-3D flow and boundary layer analysee [NASA-TM-83640] 13 p1932 N84-22564
Automated rendezvous and docking: A parametric study [NASA-TP-2314] 14 p2115 N84-23677
Comparison of free-piston Stirling engine model predictions with RE1000 engine test data [NASA-TM-83650] 14 p2249 N84-24509
Highly integrated digital engine control system on an F-15 airplane [NASA-TM-86040] 15 p2262 N84-24587
Predicted TF41 performance with the AGARD research fuel 15 p2293 N84-24763
An investigation of aerodynamic characteristics of wings having vortex flow using different numerical codes [NASA-CR-173596] 16 p2438 N84-25639
A correction factor to f-chart predictions of active solar fraction in active-passive heating systems 16 p2513 N84-26127
Measured versus predicted performance of the SERI test house: A validation study 16 p2513 N84-26128
Characterizing shaped charge by stand-off behavior [MBB-UA-693-83-O] 16 p2564 N84-26448
Detonation parameters for Australian high-explosives composition [MRL-R-822] 17 p2628 N84-26812
Uniaxial model for gas-loaded variable conductance heat pipe performance; the effects of vapor flow, friction and inertia [NLR-MP-83058-U] 17 p2669 N84-27021
Modeling and simulation of lead-acid batteries for photovoltaic systems 17 p2722 N84-27326
An investigation of the transient thermal analysis of spur gears [NASA-TM-83724] 18 p2849 N84-28088
Individual differences in learning rate [AD-P003338] 18 p2911 N84-28462
Use of self assessment in estimating levels of skill retention [AD-P003345] 18 p2911 N84-28465
Elliptical orbit performance computer program [NASA-CR-165832] 18 p2920 N84-28515
Excess science accommodation capabilities and excess performance capabilities assessment for Mars Geoscience and Climatology Orbiter: Extended study [NASA-CR-173765] 19 p2978 N84-28882
Pressure filtration of ceramic pastes. 4: Treatment of experimental data [NASA-TM-77454] 19 p2997 N84-28992
Calculation of the performance of an RF excited transverse flow CO2 laser [ESA-TT-832] 19 p3030 N84-29221
Operating characteristics of a three-piece-inner-ring large-bore roller bearing to speeds of 3 million DN [NASA-TP-2355] 19 p3031 N84-29226
PURDU-WINCOF: A computer code for establishing the performance of a fan-compressor unit with water ingestion [NASA-CR-168005] 20 p3130 N84-29875
Measurement techniques for high-power semiconductor materials and devices [DE84-010425] 20 p3309 N84-31016
Feasibility study of a low cost Energy Performance Management System (EPMS) — automatic flight control [BMFT-FB-W-84-015] 21 p3328 N84-31116
Application of TOS/AMS to TDRS E and F [NASA-CR-171124] 21 p3346 N84-31225
Ferrous alloy metallurgy, liquid lithium corrosion and welding [DE84-014656] 22 p3556 N84-32517
A simulation of remote sensor systems and data processing algorithms for spectral feature classification [NASA-CR-172393] 22 p3597 N84-32784
Automotive Stirling Engine Development Program. RESD summary report [NASA-CR-174674] 22 p3677 N84-33307

PERFORMANCE TESTS
Minimum testing of the space shuttle orbiter for stability and control derivatives 01 p0021 N84-10134
Trends in shuttle entry heating from the correction of flight test maneuvers 01 p0023 N84-10146
Shuttle flight pressure instrumentation: Experience and lessons for the future 01 p0026 N84-10167
Data analysis of the LLNL hydrogen igniter experiments [DE83-010260] 01 p0037 N84-10236
Potential inspection, maintenance and repair techniques for the OTEC (Ocean Thermal Energy Conversion) systems [PB83-221374] 01 p0060 N84-10397
Performance demonstration of a high-power space-reactor heat-pipe design [DE83-012688] 01 p0145 N84-10952
Modern hygrometer. Is it an alternative to psychrometric humidity measurement? 02 p0234 N84-11595
Investigation of the distancemeter Geodimeter 122 and the Autoranger-A 02 p0234 N84-11537
Tubular battery and transistorized controller outdoor laboratory test program [DE83-016231] 02 p0304 N84-11995
Special Course on Subsonic/Transonic Aerodynamic Interference for Aircraft [AGARD-R-712] 03 p0317 N84-12072
Recent advances in parachute technology [RAE-TM-FS(F)-514] 03 p0319 N84-12089
Test operations procedure: Absolute altimeters [AD-A131746] 03 p0332 N84-12185
Performance of add-on-type heat pump water heaters using two different test methods [PB83-222703] 03 p0359 N84-12332
Investigation of sources, properties and preparation of distillate test fuels [NASA-CR-168227] 04 p0508 N84-13332
Flat-plate solar-collector performance data base and user's manual [DE83-011993] 04 p0558 N84-13682
Analysis and modeling of photosynthetic bacterial hydrogen production plants [DE84-000003] 04 p0570 N84-13758
Electrical and magnetic properties of the energy-saver correction elements [DE83-017327] 04 p0603 N84-13983
Baseline and verification tests of the electric vehicle associates' current fare station wagon [AD-A132549] 04 p0617 N84-14072
Closed cycle cryocooler for low temperature electronics circuits: Cold end test [AD-A134043] 05 p0662 N84-14354
Rotationally symmetric arrays of apertures on conducting spherical surfaces 05 p0673 N84-14419
MIT miniaturized disk bend test [DE84-001275] 05 p0694 N84-14554
Exact performance of general second-order processors for Gaussian inputs [AD-A134098] 05 p0733 N84-14816
Aerodynamics, aeroelasticity, and stability of hang gliders 06 p0784 N84-15134
Life test performance of a Philips rhombic-drive refrigerator with bellows seals 06 p0819 N84-15341
The creation of the NLR benchmark package and the performance of two new CDC computers with it [NLR-MP-82015-U] 06 p0896 N84-15819
Analysis of the performance of the free electron bolometer [AD-A134139] 07 p1008 N84-16533
Radiac calibrators [AD-A134611] 07 p1008 N84-16535
Age, altitude, and workload effects on complex performance [AD-A133594] 07 p1047 N84-16793

Evaluation of viability sensors at the Eglin Air Force Base climatic chamber
[AD-A135375] 08 p1190 N84-17758
A test strategy for high resolution image scanners
[AD-A134998] 08 p1231 N84-18048
AQM-81A fireboit
[AD-A135895] 09 p1255 N84-18194
A rationale for the testing of space mechanisms 09 p1296 N84-18471
Computerised data acquisition and control methods as related to mechanisms testing — spacecraft mechanisms 09 p1296 N84-18473
Procedures for static and constant-rate tests on a Single-Degree-of-Freedom (SDF) strapdown gyroscope
[AD-A136632] 09 p1318 N84-18609
Driving traction on ice with all-season and mud-and-snow radial tires
[AD-A136115] 09 p1325 N84-18658
Effect of liquid tin-zinc on the drilling parameters of several alloys
[PB84-134782] 10 p1464 N84-19582
Heat transfer and thermal stability of alternative aircraft fuels, volume 1
[AD-A137404] 10 p1469 N84-19597
Heat transfer and thermal stability of alternative aircraft fuels. Volume 2: Appendices
[AD-A137405] 10 p1469 N84-19598
Fabrication and evaluation of a high density multi fiber plastic connector 11 p1720 N84-21223
Quantitative evaluation of 3 DBMS: ORACLE, SEED AND INGRES 11 p1748 N84-21410
Development of the parachute recovery system for the LBRV-2 reentry vehicle
[DE84-001540] 12 p1766 N84-21518
Dynamic assessment of B-52B-008 carrier aircraft for the revised Space Shuttle solid rocket booster decelerator subsystem drop test vehicle
[NASA-CR-170989] 12 p1779 N84-21606
Engineering fabrics in transportation construction
[PB84-144856] 12 p1804 N84-21763
Stirling engine applications study
[PB84-148055] 12 p1823 N84-21888
Field test experience 12 p1838 N84-21984
Performance evaluation of a Magnavox GPS (Global Positioning System) Z-set
[AD-A138560] 13 p1929 N84-22547
Civil turbofan propulsion system integration studies using powered testing techniques at ARA, Bedford
[ARA-MEMO-248] 13 p1931 N84-22561
Preliminary investigation of a two-zone swirl flow combustor
[NASA-TM-83637] 13 p1932 N84-22565
Post-test data report for the space shuttle full-scale AFRSI sequence of environments test (OS-305-1 to -5) in the NASA/Ames Research Center 11x11-foot wind tunnel
[NASA-CR-167684] 13 p1938 N84-22603
Investigation of combustion characteristics of a high chamber pressure rocket motor 13 p1952 N84-22693
Apparatus for certification of angular-displacement transducers 13 p1973 N84-22806
Certification vibration tests, SD802 materials experiment
[AD-A138547] 13 p2001 N84-22982
Wind energy test field Pellworm: Tests of the plant Bruemmer BW 120S
[GKSS-83-E-42] 13 p2010 N84-23035
Examining functional acceptance testing with structural coverage metrics 13 p2027 N84-23142
Satellite tracking and Earth dynamics research programs
[NASA-CR-173502] 14 p2112 N84-23661
Group-type hydrocarbon standards for high-performance liquid chromatographic analysis of middistillate fuels
[NASA-TP-2317] 14 p2131 N84-23774
DSCS 3: Acquisition and testing 14 p2139 N84-23822
Highly integrated digital engine control system on an F-15 airplane
[NASA-TM-86040] 15 p2262 N84-24587
Preliminary flight test results of the F100 EMD engine in an F-15 airplane
[NASA-TM-85902] 15 p2262 N84-24588
Cascade variable-conductance heat pipe (A0076) 15 p2274 N84-24651
Low-temperature heat pipe experiment package (HEPP) for LDEF (S1001) 15 p2274 N84-24652
Transverse flat-plate heat pipe experiment (S1005) 15 p2274 N84-24653
Development of capsular adhesive systems and evaluation of their stability
[AD-A140083] 15 p2302 N84-24816
Fundamental mode rectangular waveguide system for Electron-Cyclotron Resonant Heating (ECRH) for tandem mirror experiment-upgrade (TMX-U)
[DE84-009085] 15 p2322 N84-24940
Measurements of elongational viscometry using a fiber spinning technique. Part 1: Modifications to the Sangamo Schlumberger elongational viscometer model E4
[AD-A140002] 15 p2333 N84-25010
Development of automatic measuring system for image pickup tubes
[NHK-LN-295] 15 p2335 N84-25014
Radiac survey instrumentation
[AD-A140084] 15 p2337 N84-25029
The 18th Aerospace Mechanisms Symposium
[NASA-CP-2311] 15 p2346 N84-25078
Actuator development for the Instrument Pointing System (IPS) 15 p2347 N84-25080
The importance of thermal-vacuum testing in achieving high reliability of spacecraft mechanisms 15 p2347 N84-25085
Improving slipring performance 15 p2347 N84-25086
The design and development of two-failure tolerant mechanisms for the Spaceborne Imaging Radar (SIR-B) antenna 15 p2348 N84-25087
Fuel fire tests of the helicopter crewman jacket
[AD-A140037] 15 p2365 N84-25302
A guide to macro and micro computer performance evaluation
[AD-A140127] 15 p2369 N84-25329
A field evaluation of the Bendix Gyrocompass Navigation System land navigator
[AD-A140368] 16 p2446 N84-25689
Innovative structures for space applications
[GAC-19-1563] 16 p2458 N84-25757
Flammability testing for the screening of space materials
[ESA-PSS-01-721-ISSUE-1] 16 p2463 N84-25787
Effect of outer race misalignment on the high speed performance of ball bearings
[NAL-TR-786] 16 p2498 N84-26026
Initial results from testing passive solar components in the NBS calorimeter 16 p2517 N84-26160
Human factors engineering. Part 1: Test procedures
[AD-A140343] 16 p2539 N84-26302
Human factors engineering. Part 2: HEDGE (Human factors engineering data guide for evaluation)
[AD-A140391] 16 p2540 N84-26303
Aircraft transparency testing methodology
[AD-P003213] 17 p2594 N84-26826
The NESDIS-SEL Lear aircraft instruments and data recording system
[NOAA-TR-NESDIS-9] 17 p2607 N84-26898
Fan blade shake test results for the 40- by 80-foot/80- by 120-foot wind tunnel
[NASA-TM-85859] 17 p2618 N84-26753
Effect of bandwidth and interference rejection on the spectrum efficiency of land mobile radio systems
[PB84-158369] 17 p2654 N84-26976
Princeton VLSI project
[AD-A140588] 17 p2663 N84-26986
Solar collector test procedures: Development of a method to refer measured efficiencies to standardized test conditions
[PB84-165299] 17 p2723 N84-27333
Comparison of some software reliability models for simulated and real failure data
[NLR-MP-83032-U] 17 p2754 N84-27481
Assessment of techniques for evaluating computer systems for Federal Agency procurements
[PB84-176494] 17 p2756 N84-27496
Hungarian officials comment on performance of Soviet-built aircraft 18 p2784 N84-27670
Application of selected advanced technologies to high performance, single-engine, business airplanes
[NASA-CR-172361] 18 p2792 N84-27719
Performance capabilities of the 12-centimeter Xenon ion thruster
[NASA-TM-83674] 18 p2808 N84-27825
Test results for 27.5- to 30-GHz communications satellite receivers
[NASA-TM-83662] 18 p2828 N84-27954
Performance of the Lester battery charger in electric vehicles
[NASA-CR-173726] 18 p2833 N84-27982
Astronomical Microdensitometry Conference
[NASA-CP-2317] 18 p2839 N84-28020
Diagnosing a PDS microdensitometer 18 p2839 N84-28021
Performance testing of the high altitude observatory PDS microdensitometer 18 p2839 N84-28022
Photometric and positional accuracy of the PDS Bonn in view of astronomical requirements 18 p2839 N84-28023
Microdensitometer errors: Their effect on photometric data reduction 18 p2839 N84-28024
Characteristics of the MSFC, PDS microdensitometer 18 p2840 N84-28026
Recent developments: PKI square dish for the Soleras Project 18 p2873 N84-28237
An appraisal of straight bladed vertical and horizontal windmills
[PP-127] 18 p2878 N84-28264
Subordinate perceptions of contingent leaders: Do followers accept our theories?
[AD-P003248] 18 p2904 N84-28415
To the wilderness and beyond: The application of a model for transformal change
[AD-P003249] 18 p2904 N84-28416
Comparative effects of bremsstrahlung, gamma, and electron radiation on rat motor performance
[AD-P003250] 18 p2904 N84-28417
The Defense Nuclear Agency intermediate dose program: An overview (effects of total-body irradiation on the performance of personnel in Army combat crews)
[AD-P003253] 18 p2905 N84-28420
A questionnaire assessment of estimated radiation effects upon military task performance
[AD-P003254] 18 p2905 N84-28421
Perception of acoustic transients
[AD-A138201] 18 p2929 N84-28571
Perceived C/U ratio measuring equipment for TV ghost images
[NHK-LABS-NOTE-300] 19 p3003 N84-29036
Program master plan
[AD-A141554] 19 p3005 N84-29049
Testing and failure analysis to improve screening techniques for hermetically sealed metallized film capacitors for low energy applications
[NASA-CR-162071] 19 p3011 N84-29088
Validation of the military entrance physical strength capacity test
[AD-A142169] 19 p3066 N84-29451
Battery test results on Gould GC2-EV200
[DE84-900635] 20 p3181 N84-30208
Instrumenting and interpreting the time-varying response of structural systems
[DE84-009067] 20 p3203 N84-30346
Thematic Mapper (TM) instrument description 20 p3205 N84-30363
Thematic Mapper sensor characteristics 20 p3206 N84-30365
Performance tests of the Solar Steam, Incorporated, 9-m deep-dish solar concentrating collector
[DE84-000079] 20 p3235 N84-30535
Analysis of computer interactive tests for assigning helicopter pilots to different missions
[AD-A142434] 20 p3262 N84-30696
TVA and the electric vehicle
[DE84-900907] 20 p3318 N84-31085
Advanced system for testing new helicopter transmissions 21 p3329 N84-31120
MIL-STD-1553B validation testing
[AD-P003544] 21 p3333 N84-31148
MIL-STD-1553: Testing and test equipment
[AD-P003545] 21 p3333 N84-31149
MIL-STD-1750A verification testing
[AD-P003555] 21 p3335 N84-31159
Laboratory evaluation of the steady-state and part load performance of absorption type heating and cooling equipment
[PB84-182146] 21 p3376 N84-31426
Reflector antennas with low sidelobes, low cross polarization, and high aperture efficiency
[NASA-CR-174870] 21 p3383 N84-31484
A dual-ported, dual-polarized spherical near-field probe
[AD-P003514] 21 p3385 N84-31482
Performance and test criteria for dc fuses, phase 1
[PB84-202662] 21 p3395 N84-31548
Testing and evaluation of Vespel up to 450 deg F when used in nuts and bolts as a self-locking element
[NASA-TM-86456] 21 p3412 N84-31639
Two years experience testing solar collectors in Brazil
[INPE-3221-RPE/461] 21 p3434 N84-31785
Guidelines for testing and release procedures
[NASA-CR-166581] 21 p3484 N84-31982
Improving energy performance and duty time of production process CW electrical ionization CO2 lasers by using five-component lasing mixtures 21 p3481 N84-32065
Acceleration of high charge density electron beams in the SLAC linac
[DE84-012415] 21 p3497 N84-32161
Producing thermomagnetic alloy by powder metallurgy
[BLL-M-35688-(5628.4)] 22 p3553 N84-32500
Autonomous Integrated Receive System (AIRS) requirements definition. Volume 4: Functional specification for the prototype Automated Integrated Receive System (AIRS)
[NASA-CR-175264] 22 p3576 N84-32649

Hot-spot heating in central-station arrays
22 p3582 N84-32668
Qualification tests and electrical measurements: Practice and problems
22 p3585 N84-32703
Qualification and testing of modules
22 p3585 N84-32704
Qualification testing and electrical measurement experience: A manufacturer's view
22 p3585 N84-32705
Qualification testing for a central station
22 p3585 N84-32706
DC (Direct-Current) partial-discharge-environmental screening of space TWTs (Traveling Wave Tubes)
[AD-A143230] 22 p3586 N84-32710
Develop real-time dosimetry concepts and instrumentation for long-term missions
[NASA-CR-171809] 22 p3599 N84-32791
Design of a high-performance slide and drive system for a small precision machining research lathe
[DE84-011059] 22 p3606 N84-32845
Research pressure instrumentation for NASA Space Shuttle main engine
[NASA-CR-173932] 23 p3702 N84-33463
High-pressure hydrogen testing of single crystal superalloys for advanced rocket engine turbopump turbine blades
[NASA-TM-86464] 23 p3717 N84-33563
Performance and safety characteristics of lithium-molybdenum disulfide cells
23 p3736 N84-33672
Reserve Li/SOCl2 battery safety testing
23 p3736 N84-33676
Performance and safety to NAVSEA instruction 9310.1A of lithium-thionyl chloride reserve batteries
23 p3737 N84-33679
Separator qualification for aerospace nickel-cadmium cells
23 p3737 N84-33682
RCA SATCOM battery in orbit performance update and accelerated life test results
23 p3738 N84-33691
Performance of the IUE spacecraft batteries after 70 months
23 p3738 N84-33692
Management and performance of APPLE battery in high temperature environment
23 p3738 N84-33693
An evaluation of the Malvern optical particle monitor
[DE83-017039] 23 p3751 N84-33775
Statistical analyses for nondestructive testing
[AD-A143668] 23 p3758 N84-33821
The EBT-S 28-GHz, 200-kW, CW, mixed-mode, quasi-optical plasma heating system
[DE84-014415] 23 p3829 N84-34267
The SCEPTRE facility: Improved simulation of the space environment through the application of advanced technology
24 p3862 N84-34474

PERFUSION
U DIFFUSION

PERICLASE
Magnesia refractories produced from chemically modified periclase grains and Mg(OH)2 slurries
[PB84-176979] 20 p3165 N84-30099

PERIDOTITE
Peridotites of the Khizen Fault (Southeastern Pacific Ocean)
18 p2857 N84-28145
Formation and distribution of kimberlites in the eastern Siberian platform in connection with deep structure specifics
18 p2858 N84-28151

PERIHELIONS
Comet nucleus sample return mission
[NASA-CR-173501] 13 p1936 N84-22592
Guaranteed accuracy in determining orbit of Halley's Comet
19 p2973 N84-26845

PERIOD EQUATIONS
U PERIODIC FUNCTIONS

PERIODIC FUNCTIONS
NT COSINE SERIES
NT TANGENTS
Some grid generations using conformal mapping
[NAL-TR-758] 04 p0586 N84-13871
Periodic solutions of Lagrangian systems on a compact manifold
[AD-A134557] 07 p1063 N84-16897
Chaos and order — stochastic processes in dynamical systems
[MC-TW-243/83] 07 p1067 N84-16930
Some remarks on second order stationary process (or weak stationarity)
09 p1412 N84-19239
Family of almost periodic Schroedinger operators
[DE83-017306] 11 p1717 N84-21199
On small period, large amplitude normal modes of natural Hamiltonian systems
[AD-A139314] 14 p2213 N84-24294
Closed geodesics for the Jacobi metric and periodic solutions of prescribed energy of natural Hamiltonian systems
[AD-A141654] 19 p3066 N84-29588

PERIODIC ORBITS
U ORBITS

PERIODIC PROCESSES
U CYCLES

PERIODIC VARIATIONS
NT ALTERNATIONS
NT ANNUAL VARIATIONS
NT DIURNAL VARIATIONS
NT NOCTURNAL VARIATIONS
NT SECULAR VARIATIONS
Effect of periodic, tapered enlargements and contractions on turbulent heat transfer and fluid flow in a circular duct
02 p0217 N84-11422
Interplanetary Alfvenic fluctuations: A statistical study of the directional variations of the magnetic field
03 p0467 N84-13076
Periodicities in the occurrence of aurora as indicators of solar variability
03 p0470 N84-13093
Rise in the frequency of cloud cover in LANDSAT data for the period 1973 to 1981 — Brazil
[E84-10047] 04 p0553 N84-13840
Ionospheric propagation in the L. F. broadcasting band
[BBC-RD-1983/15] 05 p0665 N84-14375
Systematics of the equatorward diffuse auroral boundary
[AD-A132897] 05 p0704 N84-14617
Periodic spectral variation in Cygnus X-2 and Scorpius X-1
06 p0937 N84-16088
Reference frame requirements and the MERIT campaign
[REPT-329] 07 p1029 N84-16671
Phase dispersion minimization methods for estimation of periods from unequally spaced sequences of data — astrophysical data
09 p1408 N84-19202
Comparative study of period determination methods
09 p1410 N84-19216
Radiation and particle emission from a 1.6 kJ plasma focus
10 p1581 N84-20362
Annual and interannual variability in the Kuroshio Current System
[AD-P002665] 11 p1691 N84-21030
A generalized behavioral model for rotating short period comets with spectral orbital elements and axial orientation
13 p2075 N84-23451
Predictability of the Earth's polar motion
[NASA-TM-86095] 14 p2169 N84-23991
Climate fluctuations in Illinois: 1901-1980
[PB84-159696] 14 p2181 N84-24069
Periods found in heat measurements obtained by calorimetry
[DE84-007446] 14 p2220 N84-24321
Self-oscillations and predictability in climate dynamics
[AERONOMICA-ACTA-A-278-1984]
16 p2527 N84-26226
Solar control of winter mesospheric echo occurrence at Poker Flat, Alaska
17 p2666 N84-27102
Temporal albedo variations in Saturn's atmosphere
17 p2776 N84-27627
Facular limb-darkening functions for irradiance modeling
17 p2778 N84-27638
Temporal variations of solar UV spectral irradiance caused by solar rotation and active region evolution
17 p2780 N84-27650
Periodicity and absolute regularity
[MC-SW-97/83] 19 p3094 N84-29651
Experimental investigation of 4-dimensional superspace crystals
[DE84-009239] 19 p3112 N84-29775
Periodic and quasi-periodic motions in triple stellar systems
19 p3117 N84-29807
A 2:1 Commensurability in Uranus-Neptune system
19 p3120 N84-29633
Analysis of the Earth's variable rotation
20 p3221 N84-30462
Interannual variability in sea-surface temperature at one location along the central California coast
[AD-A142553] 20 p3251 N84-30632
Geological rhythms and cometary impacts
[NASA-TM-86116] 21 p3524 N84-32327
Mass transfer from a circular cylinder: Effects of flow unsteadiness and slight nonuniformities
[NASA-CR-174759] 22 p3593 N84-32751
Automatic analysis of bitemporal LANDSAT data: An application to the study of the evolution of vegetation-covered areas in a tropical region
23 p3768 N84-33887
On long-term periodicities in the sunspot record
[NASA-TM-86458] 23 p3844 N84-34388
Ultraviolet orbital variability of the intermediate polars — X ray sources
24 p3980 N84-35217
Periodicity searches with IUE: Studies of pulsating galactic X-ray sources
24 p3981 N84-35218
Long time behaviour of the interplanetary magnetic field-sectorial structure
[INPE-3222-PRE/573] 24 p3990 N84-35245

PERIODICALS
Publication in professional journals in science and engineering: A survey of editorial procedures and opinion
[AD-A138913] 13 p2064 N84-23385
EPA (Environmental Protection Agency) journal holdings report, 1983
[PB84-194877] 21 p3520 N84-32304
European scientific notes, Volume 38, Number 7
[AD-A143236] 22 p3674 N84-33267

PERIODICITY
U PERIODIC VARIATIONS

PERIPHERAL CIRCULATION
Autonomic influences on peripheral circulatory and thermal responses to cold
[AD-A134444] 08 p1201 N84-17831

PERIPHERAL EQUIPMENT (COMPUTERS)
NT ACCUMULATORS (COMPUTERS)
NT BUFFER STORAGE
NT COMPUTER COMPATIBLE TAPES
NT COMPUTER STORAGE DEVICES
NT CONSOLES
NT CRYOGENIC COMPUTER STORAGE
NT INTEL 8080 MICROPROCESSOR
NT MAGNETIC TAPES
NT OPTICAL DISKS
NT RANDOM ACCESS MEMORY
NT READ-ONLY MEMORY DEVICES
NT REGISTERS (COMPUTERS)
NT REMOTE CONSOLES
Programmed M3T 300 terminals discussed
02 p0205 N84-11337
Benchmarking the selection and projection operations and ordering capabilities of relational database machines
[AD-A136776] 10 p1583 N84-20438
GD 80: Computer assisted device for engineers
18 p2827 N84-27949
Digital interface for bi-directional communication between a computer and a peripheral device
[NASA-CASE-MSC-20258-1] 18 p2916 N84-28492

PERIPHERAL NERVOUS SYSTEM
Ventricular pre-excitation syndromes
11 p1699 N84-21084

PERIPHERIES
U BOUNDARIES

PERISCOPES
Around-a-mast quadrifilar microstrip antenna
[AD-D011051] 22 p3571 N84-32617

PERMAFROST
Handbook on the determination of the physical, thermal and mechanical properties of frozen soils
[NRC/CNR-TT-2064] 03 p0395 N84-12578
Glaciological data: Permafrost. A bibliography, 1978 - 1982
[PB83-249730] 04 p0565 N84-13724
Strategies for using remotely sensed data in hydrologic models
07 p1022 N84-16630
Permafrost on Mars: distribution, formation, and geological role
13 p2085 N84-23506
Permafrost and the geothermal regime
14 p2165 N84-23964
Hydrology of the North Slope, Alaska
14 p2166 N84-23973
Advances in planetary geology
[NASA-TM-86247] 15 p2426 N84-25567
Analysis of permafrost depths on Mars
15 p2426 N84-25569

PERMEABILITY
Corrosion of underground pipe
[PB83-243923] 02 p0198 N84-11289
In-situ permeation tests of elastomeric O-ring seals
[DE83-015622] 03 p0356 N84-12318
Permeability of flexible materials used in fuel storage tanks. Part 1: General review
[MRL-TN-459] 05 p0662 N84-14353
Permeability of flexible materials used in fuel storage tanks. Part 2: A method of measurement and preliminary results
[AD-A133451] 06 p0853 N84-15558
Ultrahigh molecular weight aromatic siloxane polymers
06 p0930 N84-16042
Permeability of sodium sulfacyl through membrane structures differing in degree of organization with exposure to low-frequency magnetic field
07 p1043 N84-16763
Measurements of hypergolic fuels' and oxidants' permeation through commercial protective materials: Part 1. Inhibited red fuming nitric acid and unsymmetrical dimethylhydrazine
[AD-A134714] 08 p1139 N84-17411
Continuity and internal properties of Gulf Coast sandstones and their implications for geopressured fluid production
[DE84-004396] 10 p1526 N84-19998

Review of hydrogen isotope permeability through materials
[DE84-007362] 12 p1794 N84-21696
Analysis of production data from the Krafla geothermal field, Iceland
[DE84-006881] 13 p2006 N84-23014
Permeability of polymetric membrane lining materials
[PB84-166859] 15 p2302 N84-24818
Effects of stress on permeation and polyurethane degradation
[AD-A140260] 16 p2472 N84-25841
Acoustic structure and propagation in highly porous, layered, fibrous materials 17 p2762 N84-27546
Aircraft fuel tank inerting system
[AD-A141863] 19 p2964 N84-28785
Anion permselective membrane
[NASA-CR-174725] 19 p3050 N84-29358
Effects of microwaves on cell membrane permeability
[AD-A142979] 21 p3453 N84-31913
Molecule microscopy 22 p3681 N84-33337

PERMEATING
Evaluation of CO2 and CO dopants in hydrogen to reduce hydrogen permeation in the Stirling engine heater head tube alloy CG-27
[NASA-TM-83535] 06 p0805 N84-15246

PERMITTIVITY
Effects of dissipation in one-dimensional inverse problems
[DE83-017692] 03 p0362 N84-12353
Rigorous bounds for the calculated dielectric constants of ferroelectric polymers
[AD-A132741] 05 p0659 N84-14332
National Bureau of Standards Journal of Research, volume 88, no. 4, July - August 1983
[PB84-115849] 08 p1163 N84-17571
Is a partially filled cylindrical resonator operating on the TE sub 011 mode desirable for the determination of permittivity?
[REPT-S-148] 15 p2320 N84-24928
Research on the crystal growth and dielectric properties of high permittivity ferroelectric materials
[AD-A142125] 19 p3111 N84-29767
Properties of polymers: Some uses in electronics, part two
[DE84-012864] 21 p3371 N84-31387
Waveguide characteristics of resonators with arbitrary distribution of dielectric permittivity 21 p3360 N84-31451
Dielectric breakdown distributions of large dielectric constant liquids
[DE84-013216] 22 p3548 N84-32461
Dielectric measurements of soils in the 3 to 37 GHz band between -50C and 23C 23 p3768 N84-33883
The dielectric behavior of snow in the 3 to 37 GHz range 23 p3768 N84-33884
Research and crystal growth on high dielectric constant materials for mm wave applications
[AD-A144412] 24 p3967 N84-35119

PERMUTATIONS
Selfdual classes and automorphism groups
[AD-P002341] 14 p2191 N84-24132
On free spectra of clones with sharply transitive automorphism groups
[AD-P002342] 14 p2191 N84-24133
A study of elimination conditions for the permutation flow-shop sequencing problem
[CWI-OS-R8403] 17 p2754 N84-27483
New approaches to robust confidence intervals for location: A simulation study
[AD-A142248] 19 p3094 N84-29646

PEROVSKITES
High temperature catalytically assisted combustion
[AD-A133864] 05 p0648 N84-14259
Preparation of mixed perovskite oxides for blue-green lasers
[AD-A142195] 19 p3111 N84-29768
Studies of structural properties and their relationship to critical parameters in superconducting materials
[AD-A143556] 22 p3684 N84-33227

PEROXIDES
NT HYDROGEN PEROXIDE
Electron spin resonance study of thermal instability reactions in jet fuels
[NASA-CR-168333] 09 p1289 N84-18418
Singlet oxygen generator for a solar powered chemically pumped iodine laser
[NASA-CR-172364] 19 p2982 N84-28899

PERSHING MISSILE
Pershing II simulation studies. Debris dynamics and 2.75 rocket 6-DOF (Degree Of Freedom)
[AD-A139130] 14 p2113 N84-23663

PERSIAN GULF
Navy tactical applications guide. Volume 5, Part 1: Indian Ocean (Red Sea/Persian Gulf) weather analysis and forecast applications
[AD-A134412] 07 p1039 N84-16740
Detection and monitoring of the 1983 Nowruz oil spill using AVHRR data 23 p3780 N84-33972

PERSONAL COMPUTERS
HP-85/Mini-Ranger navigation system
[AD-A142131] 19 p2961 N84-28770
A user view of office automation or the integrated workstation 22 p3671 N84-33271

PERSONALITY
Influences on group productivity. 2: Factors inherent in the person. A bibliographic synopsis
[AD-A131015] 06 p0891 N84-15790
Effects of load, cognitive complexity and type A on satisfaction
[AD-A134415] 08 p1203 N84-17846
The relationship between personality and efficiency 17 p2744 N84-27423
Software psychology: The need for an interdisciplinary program
[PB84-176718] 17 p2755 N84-27486
Eye accommodation, personality, and autonomic balance
[AD-A141499] 19 p3065 N84-29446

PERSONNEL
NT AIR TRAFFIC CONTROLLERS (PERSONNEL)
NT AIRCRAFT PILOTS
NT ASTRONAUTS
NT COSMONAUTS
NT CREWS
NT FLIGHT CREWS
NT FLYING PERSONNEL
NT GROUND CREWS
NT INSTRUCTORS
NT MEDICAL PERSONNEL
NT OPERATORS (PERSONNEL)
NT ORBITAL WORKERS
NT PHYSICIANS
NT PILOTS (PERSONNEL)
NT PROGRAMMERS
NT SCIENTISTS
NT SPACECREWS
Preliminary investigation of variation in some dark adaptation aspects for possible relevance to military helicopter aircrew
[AD-A130231] 01 p0113 N84-10733
Effect of carbon monoxide (CO) on firefighters 04 p0512 N84-13357
Job attitudes toward the new maintenance concept of the airway facilities service
[AD-A133282] 06 p0891 N84-15793
Perspectives on oversight management of software development projects
[AD-A133404] 06 p0933 N84-16064
Microfiche Image Transmission System (MITS) demonstration field evaluation of microfacsimile
[AD-A134716] 08 p1145 N84-17450
Individual differences in military decisionmaking: The classification performance of active sonar operators
[AD-P002885] 13 p1979 N84-22846
NASA/Howard University Large Space Structures Institute
[NASA-CR-173425] 14 p2244 N84-24476
Guidelines for health surveillance in the NASA (National Aeronautics and Space Administration) workplace
[NASA-CR-173677] 18 p2899 N84-28390
Situational interaction: A peer counseling approach to AWOL (unauthorized absences from duty) reduction
[AD-P003243] 18 p2903 N84-28410
Comparing well-being and stress of several high risk Army groups
[AD-P003264] 18 p2906 N84-28430
Windows on a future world: Human dimensions of Air Force doctrine in the 21st century
[AD-P003307] 18 p2909 N84-28449
Relationship between crewmember characteristics and tank crew performance
[AD-P003355] 18 p2912 N84-28471
Women in the sciences
[TB-83-8] 19 p3114 N84-29784
The impact of a computerized network on the quality of work life in two college of advanced education libraries in New South Wales 19 p3115 N84-29792
Development of a document preparation staff within an office automation environment
[DE84-008649] 20 p3313 N84-31041
Ophthalmological investigation among contact lens wearers in military service
[REPT-AR/MHAM-1983-1] 21 p3458 N84-31940
Proceedings of the 5th Interservice-Industry Training Equipment Conference, volume 2
[AD-A142775] 21 p3515 N84-32268
Photodigitizing procedures
[AD-A143569] 22 p3599 N84-32793
Determination of factors affecting performance and productivity in an engineering/design environment
[AD-A143315] 22 p3669 N84-33252

PERSONNEL DEVELOPMENT
Bottom Line Academia Conference — quality management education
[AD-A131043] 01 p0159 N84-11048
Training feedback handbook
[AD-A132565] 05 p0715 N84-14683
Evaluation results for the interactive video competency recognition system
[AD-A133052] 06 p0892 N84-15796
Artificial intelligence: An analysis of potential applications to training, performance measurement, and job performance aiding
[AD-A133592] 06 p0900 N84-15839
Radar training facility initial validation
[AD-A133220] 07 p1049 N84-16797
Multiple launch rocket system: A case study of manpower, personnel and training requirements determination
[AD-A137644] 11 p1620 N84-20606
The leader of the Army acquisition workforce
[AD-P002762] 13 p2052 N84-23309
Prerequisites for the establishment of a professional acquisition workforce
[AD-P002763] 13 p2052 N84-23310
Training requirements for changing times
[AD-P002764] 13 p2052 N84-23311
Training acquisition personnel through a local college
[AD-P002766] 13 p2052 N84-23313
Government - contractor interaction
[AD-P002768] 13 p2053 N84-23315
Saab claims world's most modern engine-assembly plant 14 p2135 N84-23800
The United States Air Force graduate student summer support program, 1983. Management report
[AD-A139363] 14 p2245 N84-24483
Computer-managed instruction: Stability of cognitive components
[AD-A139681] 15 p2383 N84-25291
Microcomputers: Introduction to features and uses
[PB84-178821] 17 p2750 N84-27458
Exploring the interaction of the Vroom/Yetton model and leadership style (LPC) (Least Preferred Coworker) as it predicts performance
[AD-P003247] 18 p2904 N84-28414
Affective determinants of job perceptions
[AD-P003258] 18 p2905 N84-28425
Expectations, job perceptions and disconfirmation among Air Force Academy graduates
[AD-P003259] 18 p2906 N84-28426
Windows on a future world: Human dimensions of Air Force doctrine in the 21st century
[AD-P003307] 18 p2909 N84-28449
Prototype development of an information-sharing and decision support system for the manpower personnel and training community
[AD-P003310] 18 p2909 N84-28451
Training and performance support system: A new dimension in individualized instruction
[AD-P003315] 18 p2910 N84-28454
Evaluation of the HARDMAN comparability methodology for manpower, personnel and training
[NASA-CR-173733] 18 p2915 N84-28485
Development of a document preparation staff within an office automation environment
[DE84-008649] 20 p3313 N84-31041
Ada (Trademark) training considerations
[AD-P003560] 21 p3335 N84-31164
Guide to computer-based training
[DE84-012244] 21 p3466 N84-31975
Practical writing and editing techniques
[DE84-012642] 21 p3519 N84-32294
Terminal oversight: The editor and the word processor
[DE84-012648] 21 p3519 N84-32295
ADA (trademark) training curriculum. Basic ADA programming I202 teacher's guide, volume 1
[AD-A143584] 22 p3641 N84-33083
Validation of relative-time-spent rating scales
[AD-A144067] 23 p3812 N84-34169
An analysis of the effectiveness of the problem solving skills for managers training package--USCG
[AD-A144017] 23 p3834 N84-34317

PERSONNEL MANAGEMENT
Project UPGRADE extended statistical analysis
[AD-A130823] 01 p0137 N84-10697
Revitalization: An organizational program for the individual
[DE83-014949] 03 p0458 N84-13013
A calculator adaptation of the Markov chain model for manpower analysis
[AD-A132990] 05 p0757 N84-14966
Performance appraisal revisited
[AD-A132841] 06 p0932 N84-16059
The design of effective reward systems
[AD-A132859] 06 p0934 N84-16067

Organizational-climate dimensions: A conceptual and judgmental analysis
[AD-A132898] 06 p0934 N84-16068
Development of a systems theoretical procedure for evaluation of the work organization of the cockpit crew of a civil transport airplane
[NASA-TM-77359] 07 p1051 N84-16806
Motivation and performance appraisal behavior
[AD-A134311] 08 p1203 N84-17842
A set of organizational-climate measures: Internal consistency, factor structure, and predictive power
[AD-A135362] 09 p1398 N84-19132
A review of major issues relating to human-machine integration in the development of military systems
[AD-A136739] 10 p1554 N84-20184
Modification to the advanced degree requirements information system
[AD-A136167] 12 p1918 N84-22469
Personnel technology: Performance appraisal, a process approach
[AD-A136959] 13 p2022 N84-23112
Projecting manpower to attain quality
13 p2028 N84-23148
Managers handbook for software development
[NASA-TM-85604] 13 p2028 N84-23150
Assessing contracting workforce requirements in the matrixed organization
[AD-P002760] 13 p2052 N84-23307
A dynamic personnel assignment model in the R and D environment
[AD-P002765] 13 p2052 N84-23312
Improving the effectiveness of award fee contracts for program management support services
[AD-P002827] 13 p2062 N84-23372
Employment changes resulting from the award of contracts in labor surplus areas
[AD-P002834] 13 p2063 N84-23379
Research in man-machine interaction discussed
13 p2065 N84-23393
Research briefings for the Office of Science and Technology Policy, the National Science Foundation and selected federal departments and agencies, 1983
[PB84-161322] 14 p2124 N84-23732
United States Air Force summer faculty research program, 1983. Program management report
[AD-A139366] 14 p2245 N84-24484
The MBB business activities' report
14 p2247 N84-24494
Biological clocks and shift work scheduling
[GPO-29-312] 15 p2379 N84-25277
Guide to reporting time in the financial information system at ANL
[DE84-009356] 15 p2419 N84-25524
Increase of worker autonomy at the industrial work place as shown in three humanization projects in Sweden, in Great Britain and in the USA
[BMFT-FB-HA-83-031] 16 p2564 N84-26453
Motivation and work performance: A comparative and analytical study 17 p2747 N84-27441
Proceedings of the 9th Symposium on Psychology in the Department of Defense
[AD-A141043] 18 p2902 N84-28403
Affective determinants of job perceptions
[AD-P003258] 18 p2905 N84-28425
Workshops for management of combat stress
[AD-P003283] 18 p2907 N84-28439
The structure of processing resource demands in monitoring automatic systems
[AD-P003319] 18 p2910 N84-28455
Behavioral issues in the management of technology
[AD-P003349] 18 p2912 N84-28467
Evaluation of the HARDMAN comparability methodology for manpower, personnel and training
[NASA-CR-173733] 18 p2915 N84-28485
US Army Research Institute 1983 report
[AD-A141621] 19 p3115 N84-29790
Interaction of human cognitive models and computer-based models in supervisory control
[AD-A142677] 20 p3265 N84-30717
Development of a document preparation staff within an office automation environment
[DE84-008649] 20 p3313 N84-31041
Reverse engineering of the multiple launch rocket system. Human factors, manpower, personnel, and training in the weapons system acquisition process
[AD-A142649] 21 p3349 N84-31247
Equitable assignment rules
[AD-A142809] 21 p3515 N84-32268
Terminal oversight: The editor and the word processor
[DE84-012648] 21 p3519 N84-32295
Matrix management in DoD: An annotated bibliography
[AD-A143316] 22 p3669 N84-33253
Military Medical Journal, no. 4, 1984
[L-2718] 23 p3806 N84-34134
Validation of relative-time-spent rating scales
[AD-A144067] 23 p3812 N84-34169
An analysis of the effectiveness of the problem solving skills for managers training package--USCG
[AD-A144017] 23 p3834 N84-34317

PERSONNEL SELECTION
NT PILOT SELECTION
Velocity control decision-making ability: Relationship to flying capability and experience
[AD-A136546] 09 p1363 N84-18901
Military deception: A clinical psychological analysis
[AD-P003239] 18 p2902 N84-28406
Psychophysiological tools in engineering psychology
[AD-P003337] 18 p2911 N84-28461
Realization of human work capacity: Interdisciplinary problems 21 p3454 N84-31920

PERSPIRATION
Heat exchange following atropine injection before and after heat acclimation
[AD-A132618] 06 p0890 N84-15780

PERT
Stochastic bounds on distributions of optimal value functions with applications to PERT, network flow and reliability
[REPT-81] 17 p2771 N84-27593

PERTURBATION
NT ORBIT PERTURBATION
NT SATELLITE PERTURBATION
High space harmonic perturbations in traveling wave tubes
[AD-A130204] 01 p0070 N84-10458
Effects of approximate radiation treatments used in the climate models on the clear sky thermal radiation flux and its perturbation due to CO2 increase
[DOE/ER-60023/1] 01 p0104 N84-10674
On the odd-symmetry of minimum phase-only perturbations
[AD-A130514] 01 p0131 N84-10860
Gravitational perturbation of the hydrogen spectrum
02 p0251 N84-11646
First passage times in stochastic differential equations of mathematical physics and engineering
[AD-A131705] 03 p0417 N84-12728
Temperature dependence of the electric-field gradient in Er metal
[DE83-015564] 03 p0454 N84-12989
Superconducting stability, 1983: A review
[DE83-017262] 03 p0455 N84-12995
Characterization of the general purpose research furnace for low-G directional solidification experiments
[NASA-TM-85718] 04 p0489 N84-13211
An experimental study of the response of a nearly isotropic grid turbulence to a spectrally local disturbance and an investigation of the coherent structures associated with a turbulent spot in a laminar boundary layer
05 p0678 N84-14459
A 3-component system of competition and diffusion
[AD-A132860] 05 p0738 N84-14844
Nonlinear inverse perturbation method in dynamic redesign 06 p0779 N84-15107
Coherent effects in laser spectroscopy
06 p0849 N84-15533
Development and perturbation analysis of model stochastic equations for global circulation
06 p0883 N84-15743
Monte Carlo simulation of high p/sub P jets
06 p0911 N84-15915
Perturbation solution for gas flow in a tapered rotor
[DE84-002930] 07 p1003 N84-16507
Performance criteria for comparing constrained nonlinear programming codes
[CSIR-TWISK-279] 07 p1053 N84-16822
Baroclinic inertial instability in the non-static equilibrium atmosphere
[BLL-TRANS-1566-(9022.552)]
08 p1189 N84-17751
Numerical methods for singular perturbation problems
[AD-A134696] 08 p1220 N84-17966
A modified lifting line theory for wing-propeller interference
[NASA-CR-173324] 09 p1252 N84-18171
The roles of callose, elicitors and ethylene in thigmomorphogenesis and gravitropism
09 p1356 N84-18860
A high-order test for optimality of bang-bang controls
[AD-A136375] 09 p1371 N84-18954
Linear longitudinal oscillations in collisionless plasma diodes with thin sheaths. Part 1: Method
[AD-A136962] 10 p1585 N84-20388
Hybrid perturbation/Bubnov-Galerkin technique for nonlinear thermal analysis
[NASA-TP-2145] 13 p1988 N84-22907
Development of MCAERO wing design panel method with interactive graphics module
[NAS 1.60:3775] 14 p2104 N84-23623
Local asymptotic approximation of nonlinear control systems
[AD-A139260] 14 p2213 N84-24288
A transmission line bridge for the diagnostics of plasma channels
[AD-A139286] 14 p2228 N84-24362
Theory of multistability in Josephson junction devices
14 p2235 N84-24410
Survival probability of non-linear oscillators subjected to broad-band random disturbances
15 p2312 N84-24875
Gravitational instability of an interface between two second-order fluids 15 p2314 N84-24887
A perturbation method for self-coupled combustion-instability problems
15 p2317 N84-24904
Contributions to the computation of the matrix exponential, revision
[AD-A140069] 15 p2398 N84-25392
Panel method for perturbations of transonic flows with finite shocks 16 p2442 N84-25689
Robustness qualification and improvement of multivariable regulators, with application to airplane control
[ONERA-NT-1983-2] 16 p2451 N84-25720
Robustness quantification for nonlinear sampled-data systems with dynamic multiplicative perturbations
16 p2476 N84-25871
Survey of sensitivity analysis methodology
[PB84-166701] 16 p2552 N84-26375
Probabilistic characteristics of perturbation torques in gyroscopes with electrostatic suspension
17 p2643 N84-26913
Regular reflection of strong shock wave by wedge surface 17 p2647 N84-26932
Effect of acoustic perturbations on flow structure in boundary layer with unfavorable pressure gradient
17 p2648 N84-26935
Measurement of the horizontal velocity of wind perturbations in the middle atmosphere by spaced MF radar systems 17 p2688 N84-27121
Suppression of finite-amplitude effects in sloshing modes in cylindrical cavities
[AD-A140652] 17 p2758 N84-27509
Experiences with a PDS 2020 GM
18 p2840 N84-28028
Interfering elastic wave components
18 p2862 N84-28170
On the linear stability of two-dimensional barium clouds. 1: The inviscid case
[AD-A141284] 18 p2880 N84-28285
Note on the displacement effect in a spinning fluid
[AD-A141599] 19 p3024 N84-29175
Overview of ultraviolet remote sensing of the ionosphere
[AD-A141533] 19 p3041 N84-29294
A remark on semilinear perturbations of abstract parabolic equations
[AD-A141695] 19 p3087 N84-29593
Hopf bifurcation and symmetry: Traveling and standing waves on the circle
[MC-TW-249/83] 19 p3091 N84-29631
The exit problem for a stochastic dynamical system in a domain with almost everywhere characteristic boundaries
[CWI-AM-R8403] 19 p3092 N84-29635
Application of the graphical unitary group approach to the energy second derivative for CI wave functions via the coupled perturbed CI equations
[DE84-008489] 19 p3112 N84-29772
A method for the estimation of small perturbations
19 p3118 N84-29817
The puzzling dynamics of Saturn's F-ring
19 p3119 N84-29827
The transfer of atoms, ions and molecular groups in solution. Part 1: Models and limits
[AD-A142333] 20 p3147 N84-29981
Some computational aspects of the stability analysis of nonlinear structures
[NLR-MP-82034-U] 20 p3204 N84-30351
Aeroelastic effects in multi-rotor vehicles with application to a hybrid heavy lift system. Part 1: Formulation of equations of motion
[NASA-CR-3822] 21 p3344 N84-31216
Assessment of local influence
[AD-A143002] 21 p3473 N84-32014
Propagation of nonlinear compression pulses through granular media 21 p3489 N84-32108
Applied chromodynamics
[DE84-009136] 21 p3495 N84-32152
Improvements in the accuracy and stability of algorithms for the small-disturbance and full-potential equations applied to transonic flows
[NASA-TM-85970] 22 p3530 N84-32350
Environment and receptivity 23 p3748 N84-33760

Secular stability of rotating stars
[DE84-014011] 23 p3839 N84-34353
Periodic control of the individual-blade-control helicopter rotor
[NASA-CR-166807] 24 p3911 N84-34771
PERTURBATION THEORY
On perturbation theory
[AD-A130213] 01 p0131 N84-10856
A numerical analyst's Jordan canonical form
[AD-A130775] 01 p0133 N84-10873
Blowup of a weak beam due to interaction with a strong beam in an electron storage ring
[DE83-016089] 02 p0291 N84-11908
New results for transition probabilities in two-level systems: The large detuning regime
[AD-A131783] 03 p0433 N84-12835
Molecular basis for local compositions in liquid-mixture models
[DE83-016604] 04 p0495 N84-13250
Equations governing the liquid-film flow over a plane with heat flux and interfacial phase change
[DE83-017528] 04 p0536 N84-13525
Perturbation methods for slightly damped gyroscopic systems 04 p0537 N84-13534
Recent developments in the understanding of pion-nucleus scattering
[DE84-001017] 04 p0597 N84-13942
Numerical methods for singularly perturbed differential equations with applications
[AD-A133741] 05 p0734 N84-14821
A rapid convergence method for a singular perturbation problem
[AD-A132837] 05 p0740 N84-14863
Indirect processes in electron-ion scattering
[DE84-002361] 05 p0745 N84-14897
On perturbations of stability inequalities with an application to finite difference approximations of ODE's
[AD-A134535] 07 p1062 N84-16889
Generalized functions as linear functionals on generalized functions
[MC-ZW-199/83] 07 p1065 N84-16912
Termination strategies for Newton iteration in full multigrid methods
[MC-NW-159/83] 07 p1066 N84-16921
On M-functions and nonlinear relaxation methods
[MC-NW-160/83] 07 p1066 N84-16922
Chaos and order — stochastic processes in dynamical systems
[MC-TW-243/83] 07 p1067 N84-16930
Analysis of some acoustics-jet flow interaction problems
[NASA-CR-175340] 07 p1069 N84-16944
Learning from numerical calculations of ion-atom collisions
[DE84-003265] 08 p1229 N84-18035
A singular perturbation analysis of the fundamental semiconductor device equations
[AD-A136322] 09 p1373 N84-18964
High frequency acoustic instabilities in heated fluids
[DE84-005114] 10 p1575 N84-20324
Stability of planar multifluid plasma equilibria by Arnold's method
[DE84-004332] 11 p1655 N84-20801
Semigroup associated with a quasi-linear system in which the coupling is linear
[DE84-004227] 11 p1719 N84-21210
An introduction to the technique of singular perturbations applied to performance optimization problems in atmospheric flight mechanics
[VTH-LR-374] 12 p1769 N84-21540
Stochastic dynamical systems with a cyclic structure
[MC-TW-247/83] 13 p2037 N84-23214
Design of a complete multivariable digital flight control system
[AFIT/GE/EE/82D-18] 15 p2253 N84-24532
A microchemical derivation of the differential equations of interfacial statics. 3: Line tension
15 p2307 N84-24844
Supersymmetric statistical models on the lattice
[DE84-006758] 15 p2414 N84-25494
Hypersonic Aerothermodynamics
[VKI-LS-1984-01] 16 p2440 N84-25656
Hypersonic static and dynamic stability. Part 1: Equations of motion and flight dynamics
16 p2441 N84-25663
Second-order effects in complex rheological flows
16 p2494 N84-25999
Resistivity of a disordered 2-D electron gas in terms of force-force correlation function
[INPE-3065-PRE/482] 16 p2558 N84-26408
Prediction of transition states and thermochemistry for combustion reactions
[AD-A140738] 17 p2619 N84-26781
Nonlinear growth of perturbations in an Einstein-De Sitter cosmology 17 p2776 N84-27624
The stability and dynamics of elastic structures and fluid flows
[AD-A141206] 18 p2837 N84-28006
Nonlinear perturbations of dynamical systems and nonlinear controllability
[RR-249] 18 p2926 N84-28560
Flow of a simple viscoelastic fluid in a thin lubricating oil
[ISSN-0206-5658] 19 p3019 N84-29145
Numerical solutions of non-uniquely solvable integral equations using finite rank modifications
[AD-A142149] 19 p3089 N84-29610
The exit problem for a stochastic dynamical system in a domain with almost everywhere characteristic boundaries
[CWI-AM-R8403] 19 p3092 N84-29635
A rapid estimation of near earth satellite lifetimes with quasi-dynamic atmospheric model with application to a proposed Brazilian satellite 19 p3119 N84-29823
Comment on coupled perturbations on orbits of artificial earth satellites 19 p3119 N84-29624
Implementation of uniform perturbation method for potential flow past axisymmetric and two-dimensional bodies
[NASA-CR-173829] 20 p3125 N84-29651
Orbital stability in combined uniform axial and three-dimensional wiggler magnetic fields for free-electron lasers
[NASA-TM-83753] 20 p3192 N84-30273
Persistence of the Hopf bifurcation under singular perturbations
[DE84-013871] 22 p3646 N84-33120
Weak coupling tests of lattice QCD
[DE84-013440] 23 p3831 N84-34299
Research on topics in perturbation methods, transonic flow theory, numerical analysis and adaptive grid generation
[AD-A143641] 23 p3833 N84-34315
PERU
Tectonic deformation of the Andes and the configuration of the subducted slab in central Peru: Results from a micro-seismic experiment
[NASA-CR-175445] 11 p1681 N84-20972
PESTICIDES
Personal exposure to volatile organics and other compounds indoors and outdoors: The TEAM (Total Exposure Assessment Methodology) study
[PB83-231357] 01 p0115 N84-10744
USSR report: Chemistry
[JPRS-UCH-84-007] 24 p3867 N84-34508
PETN
Raman spectroscopies in shock-compressed materials
[DE83-014170] 02 p0190 N84-11236
PETN homolog analysis and large-scale preparation of pure PETN homologs by High-Performance Liquid Chromatography (HPLC)
[DE84-002169] 07 p0972 N84-16300
The MRL small scale gap test for the assessment of shock sensitivity of high explosives
[MRL-R-896] 08 p1139 N84-17406
The influence of lattice imperfections on the chemical reactivity of solids. The growth, perfection and defect properties of PETN (pentaerythritol tetranitrate) and RDX (cyclotrimethylene trinitramine) single crystals, part 1
[AD-A141271] 18 p2941 N84-28651
Fracto-emission from polymers
[AD-A144149] 24 p3888 N84-34622
PETROGRAPHY
Petrographic examination of Bell Canyon Tests (BCT) 1-FF field grouts over a 3-year period
[DE83-018226] 04 p0555 N84-13654
Shock wave properties of anorthosite and gabbro
[NASA-CR-173309] 08 p1155 N84-17521
Meteorites News. Japanese collection of Antarctic meteorites, volume 1, number 1
10 p1596 N84-20461
East Butte: A volcanic dome of the Eastern Snake River Plain, Idaho 13 p2079 N84-23475
The chemistry of micrometeoroids (A0187-1)
15 p2276 N84-24689
Petrography and depositional environment of the Herrin (no. 6) seam in central, eastern and northwestern Illinois
21 p3438 N84-31613
The depositional environments and petrography of the Stirling Quartzite Death Valley Region, California and Nevada 21 p3439 N84-31616
Petrography and ultrasonic wave velocity in the Admire Formation (Permian), Kansas 22 p3621 N84-32945
PETROLEUM
U CRUDE OIL
PETROLEUM PRODUCTS
NT ASPHALT
NT BUTANES
NT DIESEL FUELS
NT GASOLINE
NT GREASES
NT LUBRICATING OILS
NT NATURAL GAS
Performance of the perfluorocarbon liquid/plastic film capacitor technology in repetitive discharge pulse power service
[DE83-012502] 01 p0073 N84-10477
Long term evaluation of the effects of shale oil produced JP-4 on aircraft construction materials
[AD-A131665] 03 p0331 N84-12161
X-ray fluorescence determination of sulphur in oils by a thin film method
[MRL-TN-474] 05 p0646 N84-14250
Vectorization of a penalty function algorithm for well scheduling 10 p1562 N84-20233
Tactical buying decisions for strategic petroleum reserve spot procurements: The tunnel theory
[AD-P002612] 13 p2060 N84-23358
Assessment of Alternative Aircraft Fuels
[NASA-CP-2307] 14 p2106 N84-23630
What's so hot about formulated synthetics?
14 p2155 N84-23909
Energy technology characterizations handbook: Environmental pollution and control factors, third edition
[DOE/EP-0093] 16 p2511 N84-26117
New variant of evaluation of predicted petroleum and as reserves on genetic basis 17 p2703 N84-27219
PETROLOGY
NT PETROGRAPHY
Summaries of physical research in the geosciences
[DE83-017885] 04 p0550 N84-13624
The magnetic petrology of the deep crust and the interpretation of regional magnetic anomalies
05 p0706 N84-14634
The magnetic petrology of the deep crust and the interpretation of regional magnetic anomalies
[NASA-CR-175407] 10 p1533 N84-20041
Mineralogic and petrologic studies of meteorites and lunar samples
[NASA-CR-175390] 11 p1758 N84-21478
Stratigraphic, geochemical, and petrologic studies of the Ammonoosuc volcanics, northcentral Massachusetts and southwestern New Hampshire 13 p2013 N84-23059
A case for olivine on Mars 13 p2067 N84-23520
Geochemistry and origin of regional dolomites
[DE84-006257] 15 p2369 N84-25214
Geology, petrology and tectonic significance of the Mesozoic Paleoceanic terranes of the Vizcaino Peninsula, Baja California Sur, Mexico 21 p3438 N84-31810
Retrogenesis of the Basal Zone of the Stillwater Complex, Montana 21 p3439 N84-31818
Geochronology, paleomagnetism and petrology of the Upper Cenozoic Bruneau Formation in the Western Snake River Plain, Idaho 21 p3440 N84-31826
The petrology, structure and geochemistry of an Archean terrane in the North Snowy Block, Beartooth Mountains, Montana 22 p3620 N84-32940
Petrology of basement rocks of the California continental borderline and the Los Angeles Basin
24 p3917 N84-34801
PH
Corrosion of underground pipe
[PB83-243923] 02 p0198 N84-11289
Chemical composition of acid precipitation in Texas, volume 1
[DE84-900411] 07 p1027 N84-16659
Electrochemistry of the sulfide-polysulfide couple
[DE84-005881] 11 p1629 N84-20661
Some aspects of the corrosion of iron in alkaline solutions and associated fundamental problems
[BLL-T6234/BG/LRS/LRST677/83]
12 p1795 N84-21707
A computer package for designing pH regulation systems 15 p2391 N84-25344
PH FACTOR
STS-5 (Space Transport System-5) fish kill, Kennedy Space Center, Florida
[AD-A132958] 05 p0700 N84-14595
Atmospheric deposition to forests
[DE84-003384] 08 p1182 N84-17700
PHANTOM AIRCRAFT
NT F-4 AIRCRAFT
PHARMACOLOGY
Hypnotics and air operations
11 p1697 N84-21072
Efficacy of conditioning animals to hypoxia during sleep 15 p2377 N84-25261
USSR report: Chemistry
[JPRS-UCH-84-007] 24 p3867 N84-34508
PHASE ANGLE
U PHASE SHIFT
PHASE CHANGE MATERIALS
Development of enhanced heat transfer/transport/storage slurries for thermal-system improvement
[DE83-009688] 01 p0081 N84-10525

Research opportunities in salt hydrates for thermal energy storage
[DE84-002977] 07 p1026 N84-16650
Development of media for dynamic latent heat storage for the low temperature range. Part 1: Thermal analysis of selected salt hydrate systems
[DFVLR-FB-84-03-PT-1] 15 p2362 N84-25170
Solid state phase change materials for thermal energy storage in passive solar heated buildings
16 p2518 N84-26163
Phase change materials for use in passive and hybrid solar heating and cooling systems
16 p2518 N84-26164
Study of latent heat storage system used heat pipes for cooling of underground cables
20 p3170 N84-30127

PHASE COHERENCE
Theory of pulse propagation and coherence in free electron
[AD-A133334] 06 p0850 N84-15544

PHASE CONJUGATION
Phase conjugation in a ring laser cavity
[AD-A131156] 02 p0226 N84-11480
Phase conjugate optical resonator
[AD-A136071] 09 p1390 N84-19077
Connection between Ikeda instability and phase conjugation 14 p2232 N84-24390
Optical bistability and hysteresis under phase conjugation in CdS crystal 14 p2240 N84-24450
Wavefront reversal in nonstationary medium with large-scale inhomogeneities description by operator equations 16 p2822 N84-27918
Phase conjugate optics
[AD-A141980] 20 p3298 N84-30851
Two novel plasma diagnostics — single mode optical fiber sensors and phase conjugation in nonlinear optics
[DE84-008870] 20 p3305 N84-30900
Preliminary experiments on phase conjugation for flow visualization — barium titanate single crystals
[NASA-TM-83766] 21 p3498 N84-32169

PHASE CONTRAST
Laser pulse detection method and apparatus
[NASA-CASE-NPO-16030-1] 15 p2339 N84-25037

PHASE CONTROL
On the odd-symmetry of minimum phase-only perturbations
[AD-A130514] 01 p0131 N84-10880
Pulse compression using binary phase codes
17 p2692 N84-27145
Design considerations for high-power VHF radar transceivers: The Poker Flat MST radar phase control system 17 p2692 N84-27148
Design considerations for high-power VHF radar transceivers: Phase matching long coaxial cables using a cable radar 17 p2693 N84-27149
Phase and amplitude control system for Stanford Linear Accelerator
[DE84-011773] 21 p3496 N84-32156

PHASE DEMODULATORS
Digital transponder (14/11 GHz, 120 Mbit/sec.). Phase 1: Preinvestigation and modem development
[BMFT-FB-W-83-019] 07 p0995 N84-16449
A novel algorithm for sea surface height estimation using complex SAR data 07 p1060 N84-16873

PHASE DETECTORS
High stability buffered phase comparator
[NASA-CASE-GSC-12845-1] 07 p0996 N84-16454
Three phase power factor controller
[NASA-CASE-MFS-25535-2] 13 p1985 N84-22985
Digital phase meter 18 p2826 N84-27941
Method and apparatus for receiving and tracking phase modulated signals
[NASA-CASE-MSC-16170-2] 18 p2828 N84-27952
Phase detector for three-phase power factor controller
[NASA-CASE-MFS-25864-1] 18 p2832 N84-27975

PHASE DEVIATION
Fractal phase screens
[AD-A137604] 11 p1714 N84-21175
Vertical and horizontal phase propagation in the mesopause region observed by the OI5577 angstrom, O/sub 2/ atmospheric band, NaD and OH(8,3) band nightglow emissions
[INPE-3022-PRE/460] 12 p1846 N84-22036

PHASE DIAGRAMS
Chemistry of lithium alloy/iron sulfide cells
[DE83-014815] 02 p0215 N84-11408
Liquid phase epitaxy of InP/In1-xGxAsyP1-y heterostructures. Part 3: Phase diagrams
[FI-65-TBR-20-PT-3] 03 p0456 N84-13000
Thermal modeling of laser welding with a quasi-1-dimensional approach
[DE84-001292] 04 p0544 N84-13585
Study of phase diagrams of ternary semiconductors
[AD-A133556] 06 p0923 N84-16000
Constitution diagram of system vanadium - copper
[AD-A135516] 08 p1132 N84-17361
High pressure cosmochemistry applied to major planetary interiors: Experimental studies — phase diagram for the ammonia water system
[NASA-CR-173278] 08 p1245 N84-18138
Computer-based methods for thermodynamic analysis of materials processing
[AD-A136085] 09 p1397 N84-19123
Austenitizing and microstructure of a HT-9 steel
[DE84-004914] 11 p1635 N84-20687
Physical processes in fluids
[NASA-CR-170990] 12 p1814 N84-21827
Computerized version of the summary of binary phase diagrams
[DE84-009405] 15 p2299 N84-24800
Middle East Technical University Journal of Pure and Applied Sciences, volume 15, no. 3
15 p2401 N84-25411
Determination of the succinonitrile-benzene and succinonitrile-cyclohexanol phase diagrams by thermal and UV spectroscopic analysis
[NASA-TM-82581] 16 p2462 N84-25778
Experimental study of immiscibility in metallurgical systems
[BLL-M-35553-(5828.4)] 17 p2621 N84-26775
The effect of solidification rate on morphological stability 18 p2936 N84-28620
Developing new materials at elevated temperatures and pressures
[AD-A141235] 18 p2940 N84-28650

PHASE ERROR
Measurement errors in TDC's using digital techniques
[DE84-002133] 07 p1008 N84-16537
Carrier recovery methods for a dual-mode modem: A design approach
[NASA-CR-173355] 10 p1432 N84-19360
Study on extremizing adaptive systems and applications to synthetic aperture radars
[AD-A137725] 11 p1643 N84-20744
Phase error effects on the radiation patterns of space-fed planar phased arrays
[AD-P003505] 21 p3384 N84-31473
Timing performance of phased-locked loops in optical pulse position modulation communication systems
[NASA-CR-173970] 23 p3824 N84-34253

PHASE LOCKED SYSTEMS
Phase locked loop theory and application: A precise paper
[CSIR-NIAST-82/57] 04 p0524 N84-13444
Mathematical analysis of digital phase locked loops over fading communication channels
05 p0664 N84-14364
Surface topographical changes measured by phase-locked interferometry
[NASA-CR-3757] 07 p1074 N84-16984
RF properties of superconducting A-15 compounds
[AD-A139067] 13 p2047 N84-23285
Intrinsic instabilities in homogeneously broadened lasers 14 p2235 N84-24411
Estimation of the parameters of an unmodulated carrier signal disturbed by complex-multiplicative and additive Gaussian noise
[ESA-TT-737] 16 p2482 N84-25914
Stable heterodyning system in RT-22 radio telescope for millimetric-wave spectroscopy
17 p2630 N84-26827
Phase inverter based on dielectric stripline waveguide with mobile metal plate 17 p2638 N84-26879
Locking of diode gain modules using optical conjugation techniques
[AD-A141234] 18 p2846 N84-28075
Simultaneous detection of time coincident signals in an adaptive Doppler tracker
[AD-D011092] 22 p3577 N84-32659
Manipulation of the mixing process between streams of different velocity and temperature in the presence of pressure gradient
[AD-A143467] 22 p3593 N84-32757
An experimental investigation of an underexpanded rectangular jet ejector 23 p3688 N84-33374
FM synthesizer-modulator with 1200 channels for SCPC transmission of voice signals by satellite — single channel per carrier transmission
[INPE-2815-PRE/371] 23 p3730 N84-33638
Timing performance of phased-locked loops in optical pulse position modulation communication systems
[NASA-CR-173970] 23 p3824 N84-34253

PHASE MATCHING
NOVA Laser facility for inertial confinement fusion
[DE84-004190] 11 p1737 N84-21332
Design considerations for high-power VHF radar transceivers: Phase matching long coaxial cables using a cable radar 17 p2693 N84-27149
Direct measurement of a VUV transition oscillator strength in xenon
[DE84-008555] 18 p2941 N84-28655

PHASE MODULATION
NT PHASE SHIFT KEYING
Adaptive array behavior with periodic phase modulated interference
[AD-A132229] 04 p0521 N84-13427
Summary of ionospheric heating experiments at Tromsoe (Norway) 05 p0635 N84-14178
Digital transponder (14/11 GHz, 120 Mbit/sec.). Phase 1: Preinvestigation and modem development
[BMFT-FB-W-83-019] 07 p0995 N84-16449
Correlative phase modulation for fixed satellite services, volume 1 (phase 1)
[PTI-SB-2363-21-3505-VOL-1] 08 p1147 N84-17465
Correlative phase modulation for fixed satellite service-s. Volume 2: Supplementary report
[PTI-SB-2363-21-3794-VOL-2] 08 p1147 N84-17466
Performance assessment of Serial Minimum Shift Keying (SMSK) modulation technique. Volume 1: Executive summary
[ESA-CR(P)-1840-VOL-1] 12 p1809 N84-21796
Performance assessment of Serial Minimum Shift Keying (SMSK) modulation technique, volume 2
[ESA-CR(P)-1840-VOL-2] 12 p1809 N84-21797
A hybrid silicon membrane spatial light modulator for optical information processing 12 p1905 N84-22408
Doppler radar having phase modulation of both transmitted and reflected return signals
[NASA-CASE-MSC-18675-1] 13 p1975 N84-22820
Spectrum of phase fluctuations during probing of ionosphere 18 p2822 N84-27916
Method and apparatus for receiving and tracking phase modulated signals
[NASA-CASE-MSC-16170-2] 18 p2828 N84-27952
Integrating IR detector imaging systems
[NASA-CASE-NPO-15805-1] 18 p2932 N84-28590
The application of convolutional codes to continuous phase modulated communication channels
21 p3381 N84-31457
Phase modulator in 41.650 MHz
[INPE-3177-PRE/544] 21 p3391 N84-31515
Analytical investigation of synchrophasing as a means of reducing aircraft interior noise
[NASA-CR-3823] 21 p3491 N84-32123

PHASE SHIFT
Improving the phase stability of the SLAC RF driveline network for SLC operation
[DE83-012714] 01 p0143 N84-10943
Phase-slip centers and their interactions
[AD-A130914] 01 p0153 N84-11008
Theoretical analysis of nonreciprocal electromagnetic surface wave devices
[AD-A131630] 02 p0209 N84-11368
Proceedings of a Symposium on Laser Induced Damage in Optical Materials: 1981
[PB84-127869] 09 p1324 N84-18649
Lifetime prediction for electronic components and circuits using the phase noise measuring method
[FB-111] 10 p1487 N84-19723
Theory of multistability in Josephson junction devices
14 p2235 N84-24410
Grating lobe characteristics of arrays with uniformly illuminated contiguous subarrays
[AD-A142332] 19 p3009 N84-29072
Hyperspherical coordinate theory of 2 electron atomic processes
[DE84-009447] 19 p3102 N84-29705
Photothermal spectroscopy of weakly absorbing samples using a thermal wave phase shifter
[AD-A142056] 19 p3104 N84-29721
Propagation loss in electrostatically variable SAW delay lines
[AD-A142433] 20 p3178 N84-30183
Microwave phase modulators using semiconductor diodes (survey) 21 p3380 N84-31448
Intermediate-energy nuclear theory — nucleon-nucleon theory, three-dadron systems, hadron form factors, and Dirac particles
[DE84-012971] 22 p3654 N84-33161
Phase-only optical filter for use in an optical correlation system
[AD-D011093] 22 p3657 N84-33187
Slotline reverse-phased hybrid ring coupler
[AD-D011182] 24 p3897 N84-34673

PHASE SHIFT CIRCUITS
NT CIRCULATORS (PHASE SHIFT CIRCUITS)
Rivista Tecnica Selenia, volume 8, number 2, 1982
06 p0906 N84-15882
A digital ferrite phase-shifter for high power S-band operation 06 p0906 N84-15886
Wideband monolithic microwave amplifier study
[AD-A136424] 09 p1318 N84-18608
Research and crystal growth on high dielectric constant materials for mm wave applications
[AD-A136281] 09 p1394 N84-19102
High precision phase shifting techniques
[AD-A138397] 12 p1807 N84-21783

Single circuit board implementation of a Digitally Compensated SAW Oscillator (DCSO)
[AD-A136313] 12 p1812 N84-21612
The design of a low loss light-weight s-band phase shifter
[AD-P003406] 19 p3015 N84-29110
Optimum synthesis of stepped second class phase-shifters 22 p3566 N84-32587
Monolithic integrated antenna systems
[AD-A143184] 22 p3586 N84-32706

PHASE SHIFT KEYING

Digital transponder 11/14 GHz, 120 Mbit/sec. Phase 2: Transponder test equipment and system measurements
[BMFT-FB-W-83-013] 07 p0994 N84-16448
Digital transponder (14/11 GHz, 120 Mbit/sec.). Phase 1: Preinvestigation and modem development
[BMFT-FB-W-83-019] 07 p0995 N84-16449
Carrier acquisition and tracking by a COSTAS-loop with automatic frequency control
[DFVLR-FB-83-24] 08 p1108 N84-17202
Correlative phase modulation for fixed satellite services, volume 1 (phase 1)
[PTI-SB-2363-21-3505-VOL-1] 08 p1147 N84-17465
Correlative phase modulation for fixed satellite service-s. Volume 2: Supplementary report
[PTI-SB-2363-21-3794-VOL-2] 08 p1147 N84-17466
V-band integrated quadriphase modulator
[NASA-CR-175159] 08 p1149 N84-17480
UCLA demodulation engine
[AD-A135912] 09 p1309 N84-18556
An experimental system of FM data-broadcasting
[NHK-SERIAL-293] 15 p2319 N84-24919
Applications of differential phase statistics to studies of c3 and spread spectrum communications
[AD-A142204] 19 p3007 N84-29063
Digital sound transmission methods for TV sound tracks
[BMFT-FB-W-84-007] 19 p3009 N84-29075
Performance of digital communications over selective fading channels
[AD-A142427] 20 p3174 N84-30158
Performance of digital communications over selective fading channels 21 p3361 N84-31456
Phase shift keying apparatus
[AD-D011119] 22 p3577 N84-32660

PHASE TRANSFORMATIONS

NT ARC MELTING
NT BOILING
NT COAL LIQUEFACTION
NT EVAPORATION
NT EVAPOTRANSPIRATION
NT FLASHING (VAPORIZING)
NT FREEZING
NT FUSION (MELTING)
NT LEVITATION MELTING
NT LIQUEFACTION
NT MARTENSITIC TRANSFORMATION
NT MELTING
NT NUCLEATE BOILING
NT PREVAPORIZATION
NT SUBLIMATION
NT TRANSPIRATION
NT VACUUM MELTING
NT VAPORIZING
NT ZONE MELTING

Effect of high pressures and temperatures in pyrolytic boron nitride
[CSIR-1684] 01 p0030 N84-10189
Method of production of nitrophosphates
[CSIR-TRANS-1689] 01 p0036 N84-10225
Phase transformations and coercive force of alloys based on the compound SmCo5
[BLL-M-35117-(5828.4)] 01 p0040 N84-10255
The redistribution of silicon during the spheroidizing annealing of iron
[BLL-M-35167-(5828.4)] 01 p0040 N84-10257
Amorphous materials from precision alloys
[BLL-M-35179-(5828.4)] 01 p0041 N84-10264
Metallurgical characterization of the fracture of several high strength aluminum alloys
[NASA-TP-1066] 02 p0189 N84-11230
Higher order numerical simulations of the Knudsen layer
[AD-A131538] 02 p0190 N84-11234
Degradation of shape memory effect
[DE83-016586] 03 p0353 N84-12295
Quark-gluon plasma formation
[DE83-017742] 03 p0436 N84-12861
Review of some recent theoretical calculations of phase transitions and comparisons with experimental results
[DE83-015863] 03 p0453 N84-12983
Phase and compression behavior in sedimentation and thickening of liquid-solid suspensions
[PB83-249664] 04 p0496 N84-13257
Dilatometric investigation of phase-transformation kinetics in HP 9-4-20 steel
[DE84-001160] 04 p0500 N84-13280
The relationship between the martensitic phase transition and the superconducting properties of A15 compounds
[DE83-018186] 04 p0529 N84-13477
Equations governing the liquid-film flow over a plane with heat flux and interfacial phase change
[DE83-017528] 04 p0536 N84-13525
Proceedings of the Seventh International Conference on High Voltage Electron Microscopy
[DE83-016323] 04 p0538 N84-13540
Far infrared studies on superconductors and heat-capacity studies on liquid crystals
[DE84-001105] 04 p0613 N84-14046
Prediction of high-pressure phase transitions in solid N2 and the pressure dependence of the intramolecular vibrational frequencies
[DE83-015260] 04 p0615 N84-14057
Structure and phase transitions in bromine and potassium-mercury intercalated graphite
[AD-A133863] 05 p0645 N84-14244
Application of solidification theory to rapid solidification processing
[AD-A134132] 05 p0653 N84-14291
The 1-dimensional structured phase transformations under prescribed loads
[AD-A132807] 05 p0736 N84-14835
The anomalous magnetoresistance of graphite at high magnetic fields
[AD-A133861] 05 p0753 N84-14938
Energy release and transformation of shock-modified zirconia upon annealing to 1550 deg C
[DE83-017801] 05 p0755 N84-14954
Calculation of structures and magnetic orientations in solid alpha- and beta-O-2 as a function of pressure
[DE83-015215] 05 p0756 N84-14958
Prediction of pressure induced structural phase transitions and internal mode frequency changes in solid N2+
[DE83-014279] 05 p0756 N84-14960
Effects of pulsed dual-ion irradiation on phase transformations and microstructure in Ti-modified austenitic alloy
[DE84-001985] 06 p0807 N84-15257
New polymers for low-gravity purification of cells by phase partitioning
[NASA-CR-170957] 06 p0809 N84-15267
Specific heat of He-3 in the Fermi liquid region
[DE83-011566] 06 p0924 N84-16009
Project objectives and progress at the Research Laboratory of Electronics
[RLE-125] 06 p0926 N84-16016
Determination of systems suitable for study as monotectic binary metallic alloy solidification models 06 p0931 N84-16050
Mesophase behavior fundamental to the processing of carbon-carbon composites
[AD-A134283] 07 p0968 N84-16270
Grain refining and microstructural modification during solidification
[AD-A134605] 07 p0974 N84-16314
Observation of the effect of solute segregation on grain boundary structure
[DE84-002964] 07 p0975 N84-16319
Formation of acid deposition: Atmospheric chemical tranformation and depoeition
[REPT-107] 07 p1027 N84-16654
Microstructure and phase composition of sputter-deposited zirconia-yttria films
[DE84-003352] 07 p1082 N84-17039
Conformal solution methods based on the hard convex body expansion theory, section 1
[PB84-100940] 08 p1128 N84-17332
Heat treatment and residual austenite
[CSIR-TRANS-1704] 08 p1130 N84-17349
Consolidation of Si3N4 without additives (by hot isostatic pressing)
[NASA-CR-173279] 08 p1136 N84-17389
Basic and applied research in the field of electronics and communications
[AD-A135283] 08 p1150 N84-17487
Research Laboratory of Electronics
[AD-A135319] 08 p1150 N84-17488
Deterministic chaos in materials exhibiting phase transitions
[AD-A135172] 08 p1158 N84-17537
Phase transformation study of Cu2S
[AD-A135587] 09 p1279 N84-18352
Growth and differentiation of mammalian embryonic tissues exposed to hypergravity in vivo and in vitro 09 p1357 N84-18869
The Cauchy and Born hypotheses for crystals
[AD-A136374] 09 p1395 N84-19107
A study of phase transitions
[AD-A136449] 09 p1395 N84-19108
Continuous chemical reaction chromatography
[DE84-004089] 10 p1456 N84-19509
Use of phase transformations in the design of alloy steel
[DE84-003050] 10 p1462 N84-19550
Laser-plasma interaction and self organization phenomena in magnetoplasmas 10 p1584 N84-20382
Barriers to the migration of interphase boundaries
[AD-A137902] 11 p1633 N84-20879
Relation between structure and conductivity in the nasicon solid solution system 11 p1743 N84-21374
Ion-ion correlations and phase transitions in nascion type materials 11 p1743 N84-21375
Inelastic strong interactions at high energies
[DE84-005866] 11 p1745 N84-21388
Overview of zirconia with respect to gas turbine applications
[NASA-TP-2286] 12 p1801 N84-21740
Physical processes in fluids
[NASA-CR-170990] 12 p1814 N84-21827
Molecular dynamics studies of structural transformation in solids
[DE84-006409] 12 p1916 N84-22481
Effect of non-constant solid phase thermal properties on temperature sensitivity of solid propellant 13 p1948 N84-22654
Asymptotic condensed phase analysis of deflagrating monopropellants with subsurface exothermicity 13 p1946 N84-22656
A summary of the mechanisms of delayed detonation 13 p1947 N84-22658
Kinetics of the Beta + Delta phase transformation of HMX 13 p1951 N84-22661
Modeling the self-deflagration of HMX 13 p1951 N84-22662
Modification of the near surface region metastable phases and ion induced reactions
[AD-A138642] 13 p1952 N84-22694
Resistance characterization of nickel sulfide electrodes in LiCl-containing molten salt electrolytes
[DE84-006734] 13 p1987 N84-22898
Thermal and transformation stresses in hollow tubes during the quenching process
[AD-P002976] 14 p2201 N84-24212
Optical bistability, chaos in the coherent two photon processes 14 p2231 N84-24384
Connection between Ikeda instability and phase conjugation 14 p2232 N84-24390
Effects of solar radiation on glasses 15 p2279 N84-24685
Solutions in synthetic and biological polymers
[DE84-007505] 15 p2302 N84-24817
Fluorescent guests in thermotropic and chirality in lyotropic liquid crystals
[AD-A139985] 15 p2413 N84-25487
Metallurgy: Development of material recovery 16 p2465 N84-25795
Thermal bifurcation in the upper solar photosphere inferred from heterodyne spectroscopy of OH rotational lines
[NASA-TM-86126] 17 p2781 N84-27654
Transport processes in dendritic crystallization 18 p2936 N84-28621
Developing new materials at elevated temperatures and pressures
[AD-A141235] 18 p2940 N84-28650
Acoustic emission accompanying phase change in deformed 1H18N9T steel
[ISSN-0208-5658] 19 p2991 N84-28952
On the structure of the uranium-niobium-chromium-system
[BLL-TRANS-1104-(7291.7965)] 19 p2991 N84-28954
Application of HVEM in phase transformation research
[DE84-009226] 19 p2996 N84-28962
Metal-semiconductor phase transition and its application
[BLL-DRIC-T-7149-(3623.66)] 19 p3109 N84-29757
New phase transition in Si and GaAs exposed to picosecond laser pulses 20 p3286 N84-30666
Impact of laser radiation on optical properties of polymer liquid crystal in phase transition range 20 p3286 N84-30668
High temperature X-ray decomposition studies of alpha phase nickel-silicon and beta phase copper-aluminum-nickel alloys 21 p3364 N84-31338
Phase transformations in nearly stoichiometric nickel-manganese alloys 21 p3364 N84-31340
The effects of internal stress and phase transformations on fracture 21 p3417 N84-31671

Nonequilibrium segregation and phase instability in alloy films during elevated-temperature irradiation in a high-voltage electron microscope
[DE84-013423] 21 p3505 N84-32214
Topochemical reactions and the Stefan problem
[BLL-M-35871-(5828.4)] 22 p3553 N84-32501
Diamond synthesis from various graphites
[CSIR-TRANS-1749] 22 p3558 N84-32528
Superfluid helium 2 liquid-vapor phase separation: Technology assessment
[NASA-TM-85966] 22 p3583 N84-32752
X-ray diffuse scattering 22 p3682 N84-33341
Phase transitions in chemisorbed systems 22 p3682 N84-33342
Effect of thermocyclic processing on phase composition and structure of VT22 alloy 23 p3709 N84-33511
Solidification of highly undercooled liquid droplets
[AD-A143992] 23 p3714 N84-33543
Research on phase transformations and non-equilibrium process
[DE84-014376] 23 p3720 N84-33580
Optical effects of the gravitationally induced concentration gradient in trictitical 3He-4He
[DE84-009972] 23 p3830 N84-34297
Momentum distributions in hcp, bcc, and liquid He-4
[DE84-014679] 23 p3831 N84-34300
Changes in solidified microstructures 24 p3882 N84-34595
Solidification study of some Ni- and Co-base alloys 24 p3882 N84-34596
Erosion mechanisms of metals
[AD-A144194] 24 p3884 N84-34605
Selection rules for the spontaneous phase transitions in magnetoelastic metamagnets
[DE84-701200] 24 p3960 N84-35070

PHASE VELOCITY
Numerical simulations of convectively excited gravity waves
[DE84-001867] 06 p0879 N84-15718
A TWT amplifier with a linear power transfer characteristic and improved efficiency
[NASA-TM-83590] 12 p1810 N84-21803

PHASE-SPACE INTEGRAL
Structure of quasi-hyperbolic stochasticity in inertial self-excited oscillator 18 p2823 N84-27923

PHASED ARRAYS
On the odd-symmetry of minimum phase-only perturbations
[AD-A130514] 01 p0131 N84-10860
Simultaneous nulling in the sum and difference patterns of a monopulse antenna
[AD-A131885] 03 p0361 N84-12347
Microwave monolithic integrated circuit development for future spaceborne phased array antennas
[NASA-TM-83518] 04 p0517 N84-13399
Signal processor interface simulation of the AN/SPY-1A radar controller
[AD-A132170] 04 p0522 N84-13429
The Norwegian Seismic Array (NORSAR). Phase 3
[AD-A134036] 06 p0878 N84-15713
Phased-array-fed antenna configuration study. Volume 1: Technology assessment
[NASA-CR-168231] 07 p0991 N84-16423
Phased-array-fed antenna configuration study, volume 2
[NASA-CR-168232] 07 p0991 N84-16424
Studies in fin-line antenna design for phased array applications
[AD-A135255] 08 p1144 N84-17444
Effect of space environment on space-based radar phased-array antenna (A0133) 15 p2271 N84-24636
Statistics of field of multistage phased antenna array 17 p2632 N84-26834
Investigation of plane phased array of piezoelectric transducers with one-lobe directivity diagram 17 p2639 N84-26883
Adaptive techniques for troposcatter
[AD-A142226] 19 p3008 N84-29066
Proceedings of the Antenna Applications Symposium, volume 1
[AD-A142003] 19 p3014 N84-29104
Fundamental design issues for monolithic phased arrays
[AD-P003402] 19 p3014 N84-29106
Integration of monolithic microwave integrated circuits into phased array antenna systems
[AD-P003403] 19 p3014 N84-29107
Development of scanning dipole array
[AD-P003405] 19 p3014 N84-29109
The design of a low loss light-weight s-band phase shifter
[AD-P003406] 19 p3015 N84-29110
Geodesic cone antenna
[AD-P003408] 19 p3015 N84-29112
Nulling in array patterns with orthogonal analytic cancellation beams
[AD-A142719] 20 p3178 N84-30186
Proceedings of the Antenna Applications Symp., volume 2
[AD-A142754] 21 p3383 N84-31467
Computer analysis of phased array far-field patterns for non-symmetrical feed networks
[AD-P003502] 21 p3383 N84-31470
Analysis of directivity as a function of scan angle for planar arrays of radiating slots
[AD-P003503] 21 p3383 N84-31471
Conformal array analysis
[AD-P003504] 21 p3384 N84-31472
Phase error effects on the radiation patterns of space-fed planar phased arrays
[AD-P003505] 21 p3384 N84-31473
A conformal SHF phased array for aircraft satellite communication
[AD-P003509] 21 p3384 N84-31477

PHASES
Physical metallurgy and alloy design of dual phase steels
[DE84-005182] 11 p1634 N84-20682
The effect of plasticizer on the polarizer of Poly(vinylidene fluoride) films
[AD-A140770] 17 p2626 N84-26806

PHENOLIC EPOXY RESINS
Phenoxy resins containing pendent ethynyl groups and cured resins therefrom
[NASA-CASE-LAR-13262-1] 15 p2300 N84-24805

PHENOLIC RESINS
NT PHENOLIC EPOXY RESINS
Correlation of electrical conductivity and thermal decomposition of phenolic materials
[DE83-009186] 01 p0074 N84-10487
The oil impregnation of phenolic-resin-based materials used in the fabrication of ball-bearing cages
[ESA-PSS-01-712-ISSUE-1] 16 p2472 N84-25846

PHENOLOGY
Sampling system for wheat (Triticum aestivum L) area estimation using digital LANDSAT MSS data and aerial photographs — Brazil
[E84-10139] 16 p2506 N84-26087
Meteorological models for estimating phenology of corn
[E84-10160] 17 p2709 N84-27252
Seasonal variation of spectral brightness coefficients for barley and rye 19 p2977 N84-28872

PHENOLS
NT BISPHENOLS
Mechanical properties of bis-phenol-A polysulfone and acetylene terminated bis-phenol-A blend
[AD-A131277] 02 p0200 N84-11303
Chemistry and application of ozone and ozone/UV light for water reuse-2
[PB84-140557] 11 p1630 N84-20664
Protected ethynylated phenols
[AD-D011096] 22 p3560 N84-32544
Preparation of certain m-aminophenols and the use thereof for preparation of laser dyes
[DE84-014232] 23 p3755 N84-33803

PHENOMENOLOGY
NT MESOSCALE PHENOMENA
NT PHENOLOGY

PHENYLS
NT POLYCHLORINATED BIPHENYLS
NT POLYPHENYLS
Thermolysis of 4-methyl-4-phenyl malonyl peroxide: A new oxygen dependent chemiluminescent reaction
[AD-A131863] 03 p0349 N84-12268
Macrocycles containing tin. Syntheses of symmetrical macrocycles containing 2 or 4 diphenylstanna units
[AD-A133697] 05 p0659 N84-14329
Chemistry, characterization and processing of IMC curing polymers
[AD-A133479] 06 p0810 N84-15274

PHILIPPINES
Origin and evolution of the West Philippine Basin 21 p3439 N84-31820

PHILOSOPHY
NT PARADOXES
Some remarks on the role of logic in knowledge representation
[AD-A132534] 05 p0732 N84-14806

PHOBOS
Phobos: Close encounter imaging from the Viking Orbiters
[NASA-RP-1109] 21 p3525 N84-32330

PHOENIX (AZ)
Climate of Phoenix, Arizona (revised)
[PB83-246801] 03 p0412 N84-12699

PHONEMES
Research in continuous speech recognition
[AD-A136990] 10 p1482 N84-19682
Limited continuous speech recognition by phoneme analysis
[AD-A136021] 12 p1805 N84-21771

PHONEMICS
Linguistics 22 p3684 N84-33359

PHONETICS
Research in continuous speech recognition
[AD-A136990] 10 p1482 N84-19682
Sensitivity based segmentation and identification in automatic speech recognition
[AD-A142255] 19 p3008 N84-29068
Algorithmization and programming of operator activities for parametric synthesis of speech using the CT-1 system controlled by the MERA 303 minicomputer
[ISSN-0208-5658] 23 p3729 N84-33634
Segmentation of the speech signal based on changes in energy distribution in the spectrum
[ISSN-0208-5658] 23 p3729 N84-33635

PHONOCARDIOGRAMS
U PHONOCARDIOGRAPHY

PHONOCARDIOGRAPHY
NT ECHOCARDIOGRAPHY
Contribution of cardiac mechanograms in the expert examination of flying personnel 11 p1700 N84-21089

PHONONS
Intercalate phonon densities of states for alkali-graphite compounds
[DE83-016515] 02 p0188 N84-11225
Phonon dispersion of transverse basal-plane modes in alkali-graphite compounds
[DE83-003910] 03 p0350 N84-12273
Phonon-induced enhancements of the energy gap and critical current in superconducting aluminum
[DE83-015210] 03 p0455 N84-12996
Shock induced molecular excitation in solids
[AD-A132236] 04 p0596 N84-13935
Revision of the statistical mechanics of phonons to include phonon line widths
[DE83-017229] 04 p0614 N84-14051
Transport properties of polycrystalline Ni3Al
[DE84-001969] 05 p0656 N84-14313
Spectroscopy of thermal energy transport
[AD-A134670] 08 p1235 N84-18073
Electrical transport in low resistivity amorphous alloys
[AD-A136331] 09 p1282 N84-18372
The role of phonons in the excitation and relaxation of adspecies
[AD-A137066] 10 p1455 N84-19504
Studies of the propagation of elastic waves in fluids and solids
[AD-A137603] 11 p1729 N84-21278
Nonequilibrium optical and acoustic phonons in semiconductors 21 p3485 N84-32085

PHOSPHATES
NT ADENOSINE TRIPHOSPHATE
NT POTASSIUM PHOSPHATES
Method of production of nitrophosphates
[CSIR-TRANS-1689] 01 p0036 N84-10225
Mechanism of lubrication by tricresylphosphate (TCP)
[NASA-TP-2274] 09 p1324 N84-18653
Vertical sections of oxygen, phosphate, silicate, nitrate and nitrite from the NORPAX Shuttle Experiment
[PB84-138759] 11 p1692 N84-21036
Borophosphate vitreous electrolytes: The relationship between local order, thermal stability and ion transport 11 p1743 N84-21372
Alkali-free phosphate glasses for high temperature, high electrical resistivity applications
[DE84-011533] 20 p3164 N84-30091
Tricresyl phosphate retention by bearing retainer and reservoir materials
[AD-A143842] 23 p3724 N84-33598

PHOSPHAZENE
A new approach to polymer chemistry: Organometallic and bioactive phosphazenes
[AD-A135429] 08 p1137 N84-17396
Cyclic and high polymeric phosphazenes as carrier molecules for carboranyl, metallo, or bioactive side groups
[AD-A135656] 09 p1288 N84-18407
Carboranylmethylene-substituted phosphazenes and polymers thereof
[NASA-CASE-ARC-11370-1] 13 p1962 N84-22750
Organophosphazenes: 17: The synthesis of trimethylsilylacetylene and terminal acetylene derivatives of hexfluorocyclotriphosphazene
[AD-A141429] 19 p2963 N84-28906

PHOSPHIDES
NT BORON PHOSPHIDES
NT GALLIUM PHOSPHIDES
NT INDIUM PHOSPHIDES

PHOSPHINES
Free-radical and ion chemistry of volatile silanes, germanes, and phosphines
[DE83-016389] 03 p0350 N84-12277

Elastomer-modified phosphorus-containing imide resins
[NASA-CASE-ARC-11400-1] 05 p0657 N84-14322
Studies of polymer-bound macrocyclic polytertiary phosphines
[AD-A135718] 09 p1288 N84-18408
Alkane soluble transition metal complexes
[AD-A137252] 10 p1458 N84-19525
Organometallic chemistry of weakly solvated transition metal cations
[DE84-006987] 13 p1958 N84-22726
The reaction NH2 + PH3 yields NH3 + PH2: Absolute rate constant measurement and implication for NH3 and PH3 photochemistry in the atmosphere of Jupiter
[NASA-TM-85063] 13 p2072 N84-23430
A twisted P-C double bond: Synthesis and structure of a (Methylene)phosphine Fe-CO-4 complex
[AD-A141502] 19 p2984 N84-28907
Substitution and addition reactions of a (Methylene)phosphine with alkyllithium reagents
[AD-A141512] 19 p2984 N84-28908
Synthesis and structure of sulfur derivatives of a (methylene)phosphine
[AD-A141513] 19 p2984 N84-28909
Perfluoroalkylether substituted phenyl phosphines
[AD-D011122] 22 p3558 N84-32529
Mechanisms involved in the glow-discharge deposition of doped hydrogenated amorphous silicon
[DE84-013124] 22 p3665 N84-33236

PHOSPHORESCENCE
Flat panel — displays
[BMFT-FB-T-84-048] 19 p3019 N84-29141
Solid surface luminescence analysis
[DE84-011254] 20 p3310 N84-31022

PHOSPHORIC ACID
Adsorbent phosphates
[NASA-TM-76999] 09 p1277 N84-18339
Kinetics of corrosion of alloys of vanadium-chromium system in phosphoric acid
[BLL-M-35560-(5828.4)] 17 p2621 N84-26771

PHOSPHORIC ACID FUEL CELLS
Assessment of the environmental aspects of the DOE phosphoric acid fuel cell program
[NASA-CR-168131] 01 p0102 N84-10663
Develop and test fuel cell powered on-site integrated total energy system
[NASA-CR-168239] 04 p0557 N84-13673
New applications for phosphoric acid fuel cells
[NASA-CR-168203] 09 p1341 N84-18757
On-site fuel cell power plant technology development program
[PB84-125095] 10 p1538 N84-20076
Evaluation of gas-cooled pressurized phosphoric acid fuel cells for electric utility power generation
[NASA-CR-168298] 15 p2362 N84-25169
Full scale phosphoric acid fuel cell stack technology development
[NASA-CR-174660] 16 p2518 N84-26165
Manual of phosphoric acid fuel cell power plant cost model and computer program
[NASA-CR-174720] 23 p3790 N84-34037

PHOSPHORS
Dependence of thermoluminescence output on temperature during irradiation for several thermoluminescence phosphors
[AD-A134940] 08 p1125 N84-17313
Heat transfer measurements in cold wind tunnels
[AD-A135740] 09 p1315 N84-18591
Properties of principal TL (thermoluminescence) dosimeters
[AD-A143635] 23 p3751 N84-33776

PHOSPHORUS
Magnetic susceptibility of Fe-B, Fe - P and Ni - P alloys
[BLL-M-35126-(5828.4)] 01 p0138 N84-10902
Radiation-induced phosphorus segregation in austenitic and ferritic alloys
[DE84-000903] 04 p0504 N84-13302
Effects of simultaneous phosphorus and arsenic diffusions on emitter push and dislocation generation
[AD-A132331] 04 p0612 N84-14042
X-ray fluorescence analysis for barium, zinc, calcium and phosphorus in oil additives
[MRL-TN-475] 05 p0646 N84-14249
Space nuclear safety program, April 1983
[DE84-002325] 07 p1074 N84-16978
Atomic absorption spectrophotometric methods for the determination of phosphorous and silicon in steel
[DE84-002826] 09 p1286 N84-18395
Computer simulation of phosphorus cycling in the sediment-water system of eutrophic lakes
[PB84-140573] 11 p1672 N84-20912
Photoelectrochemical cells including chalcogenophosphate photoelectrodes
[NASA-CASE-LAR-12958-1] 13 p2007 N84-23019
Modeling of water quality in Lake Michigan and the effect of the anomalous ice cover of 1976 - 1977
[PB84-167667] 16 p2511 N84-26115
Passivation of amorphous alloys with various phosphorus contents 24 p3873 N84-34542

PHOSPHORUS COMPOUNDS
NT ADENOSINE TRIPHOSPHATE
NT BORON PHOSPHIDES
NT GALLIUM PHOSPHIDES
NT INDIUM PHOSPHIDES
NT ORGANIC PHOSPHORUS COMPOUNDS
NT PHOSPHATES
NT PHOSPHINES
NT PHOSPHORIC ACID
NT POTASSIUM PHOSPHATES
Structure-activity correlations for organophosphorus ester anticholinesterases. Part 2: CNDO/2 calculations applied to ester hydrolysis rates
[NASA-TM-85888] 07 p0966 N84-16257
Improved acid electrolytes for fuel cells
[PB84-179779] 16 p2519 N84-26173
Laser Induced Chemistry. 1984 JPM Specialist Session
[AD-A142922] 21 p3372 N84-31400
CO2 laser decomposition of the alkyl phosphites 21 p3373 N84-31402
Dihalo-monaphospha-s-triazines and their derivatives
[AD-D011175] 23 p3714 N84-33545
USSR report: Chemistry
[JPRS-UCH-84-007] 24 p3867 N84-34508

PHOSPHORUS METABOLISM
A study of stress-free living bone and its application to space flight
[NASA-CR-171786] 16 p2535 N84-26275

PHOSPHORYLATION
Oxygen insufficiency and energy failure in brain: Uncoupling of oxidative phosphorylation at low oxygen concentration 05 p0714 N84-14681

PHOTOABSORPTION
Photoemission spectroscopy and the optical properties of surface
[PB84-100445] 08 p1127 N84-17331

PHOTOACOUSTIC SPECTROSCOPY
In-situ photoacoustic spectrometry for corrosion studies
[DE84-001994] 04 p0496 N84-13254
Matrix-isolation photoacoustic spectroscopy
[DE84-001967] 05 p0651 N84-14277
Optical probing of photoacoustic propagation for noncontact measurement of flows, temperatures and chemical compositions
[AD-A134129] 05 p0684 N84-14496
A photoacoustic study of chemically active systems
[AD-A134663] 08 p1125 N84-17311
Studies of supported metal catalysts
[DE84-004210] 09 p1285 N84-18389
Photoacoustic Absorption Spectroscopy (PAS) measurements
[AD-A136591] 09 p1388 N84-19067
Development of FT-IR attenuated total internal reflection dichroism techniques for structural characterization of polymer surfaces
[AD-A140805] 17 p2768 N84-27577
Fourier transform photoacoustic spectroscopy
[DE84-010216] 19 p2990 N84-28946

PHOTOCATHODES
Recent advances in high-speed photon detectors
[DE83-014862] 02 p0224 N84-11467
Evaluation of Hamamatsu R1635 photomultiplier
[DE84-001252] 04 p0527 N84-13468
Deposition of cesium iodide on papylene
[DE83-017839] 04 p0605 N84-13992
Using photoconductivity to improve image-tube gating speeds
[DE84-001732] 05 p0676 N84-14443
Nanosecond image-shuttering studies at Los Alamos National Laboratory
[DE84-001733] 06 p0830 N84-15405
Streak cameras for soft X-ray and optical radiation
[DE84-002780] 08 p1162 N84-17584
Image dissector camera system study
[NASA-CR-171759] 11 p1656 N84-20806
Equipment and results of test of cooler for electro-optical transducer 17 p2636 N84-26866

PHOTOCELLS
U PHOTOELECTRIC CELLS

PHOTOCHEMICAL OXIDANTS
Mechanism and rates of the gas phase oxidations of sulfur dioxide and the nitrogen oxides in the atmosphere
[PB83-231324] 01 p0106 N84-10691
Determination of cloud parameters for NEROS 2 from digital satellite data
[PB84-162601] 14 p2182 N84-24075
Photochemical oxidation of hydrogen iodide by oxygen
[BLL-CE-TRANS-7989-(9022.09)] 19 p2987 N84-28925
US EPA (Environmental Protection Agency) regional oxidant model, background and overview
[PB84-201660] 21 p3437 N84-31806

PHOTOCHEMICAL REACTIONS
NT PHOTOCHROMISM
NT PHOTODECOMPOSITION
NT PHOTOLYSIS
NT PHOTOSYNTHESIS
NT RADIOLYSIS
Turbine engine exhaust hydrocarbon analysis, tasks 1 and 2
[AD-A131522] 01 p0012 N84-10074
Free-radical and ion chemistry of volatile silanes, germanes, and phosphines
[DE83-016389] 03 p0350 N84-12277
Time-resolved laser studies on the energy transfer and the configurational changes in bacteriohodopsin
[DE83-015708] 03 p0362 N84-12487
Fourth International Conference on Photochemical Conversion and Storage of Solar Energy
[DE83-014760] 03 p0403 N84-12638
The 1982 International Congress of Photographic Science
[AD-A132372] 04 p0538 N84-13536
Intermolecular energy-transfer processes
[DE84-000334] 04 p0601 N84-13971
Radiative transfer and photochemistry in the upper atmosphere of Jupiter 04 p0621 N84-14095
Rocket exhaust effects as active space plasma experiments of opportunity 05 p0640 N84-14211
Basic vision events
[AD-A132746] 06 p0890 N84-15782
Primary events in vision - investigation of basic eye responses
[AD-A132747] 06 p0890 N84-15783
Phototransformation of polycyclic aromatic hydrocarbons into stable, mutagenic components
[DE84-001747] 07 p0966 N84-16261
Photoenhancement of gas-solid reactions by surface excitation — ultraviolet irradiation
[DE84-003106] 07 p0972 N84-16299
Stratospheric determination of effective photodissociation cross sections for molecular oxygen: 191-204 nm
[AD-A134168] 07 p1034 N84-16706
physico-chemical investigation of some areas of fundamental significance to biophysics
[DE83-017404] 07 p1043 N84-16761
Comparison of photon stimulated desociation of gas phase, solid and chemisorbed water
[AD-A134986] 08 p1125 N84-17314
Photochemical energy storage (photosensitized isomerization of norbornadiene to quadricyclane by copper (I) complexes)
[AD-A135363] 08 p1180 N84-17687
Photochemical generation of the optoacoustic effect
[DE84-003712] 08 p1228 N84-18023
Structural and dynamic studies of materials possessing high energy content
[AD-A136250] 09 p1278 N84-18343
Photochemistry and photophysics of laser dyes
[AD-A136330] 09 p1320 N84-18626
Solvent effects on emission yield and lifetime for coumarin laser dyes. Requirements for a rotatory decay mechanism
[AD-A136358] 09 p1321 N84-18629
Photophysical and photochemical properties of coumarin laser dyes in amphiphilic media
[AD-A136361] 09 p1321 N84-18630
Evaluation of performance measures for an urban photochemical model
[PB84-115062] 09 p1343 N84-18771
Electron donor-acceptor quenching and photoinduced electron transfer for coumarin dyes
[AD-A136345] 09 p1394 N84-19105
Photochemical conversion of H-2Os-3(CO)10(P-Donor) to H-2Oc-3(CO)9(P-Donor) in solution and on high surface area silica
[AD-A136991] 10 p1455 N84-19501
Detailed kinetic studies of excited and/or transient species
[AD-A137278] 10 p1500 N84-19804
Crossed molecular beam studies of the reactions of oxygen and fluorine atoms
[AD-A138299] 12 p1792 N84-21688
Photochemical modeling of the Earth's stratosphere 13 p2013 N84-23058
The reaction NH2 + PH3 yields NH3 + PH2: Absolute rate constant measurement and implication for NH3 and PH3 photochemistry in the atmosphere of Jupiter
[NASA-TM-85063] 13 p2072 N84-23430
The chemistry of nitrogen compounds in combustion processes
[AD-A139539] 14 p2123 N84-23723

Enhanced solar energy collection in porphyrin based photoconversion schemes
[DE84-006882] 14 p2173 N84-24015
Assessment of ozone as a surrogate for other products of atmospheric photochemical reactions
[PB84-155852] 14 p2177 N84-24042
Determination of cloud parameters for NEROS 2 from digital satellite data
[PB84-162601] 14 p2162 N84-24075
Mechanisms of photochemical reactions of transition metal complexes: Excited state electron transfer and organometallic photochemistry
[AD-A140006] 15 p2287 N84-24722
The development of a new class of holographic materials
[AD-A140298] 16 p2496 N84-26017
Study of intermediates from transition metal excited-state electron-transfer reactions
[DE84-006587] 18 p2942 N84-28657
Photochemical oxidation of hydrogen iodide by oxygen
[BLL-CE-TRANS-7968-(9022.09)] 19 p2987 N84-28926
Overview of ultraviolet remote sensing of the ionosphere
[AD-A141533] 19 p3041 N84-29294
Laser-assisted solar cell metallization processing
[NASA-CR-173764] 19 p3050 N84-29354
International Conference on Radiationless Transitions
[AD-A141407] 19 p3100 N84-29695
Free electron lasers and related topics
[DE84-011332] 20 p3193 N84-30277
Multiphoton ionization spectroscopy and photochemistry of transient species
[DE84-010424] 20 p3295 N84-30922
Review of solar fuel-producing quantum conversion processes
[NASA-CR-173904] 22 p3617 N84-32916
Solar photochemical process engineering for production of fuels and chemicals
[NASA-CR-173910] 22 p3617 N84-32917
Proceedings of the Solar Thermal-Photochemical Conversion Workshop
[DE84-000089] 22 p3619 N84-32929
Three-dimensional photochemical machining with lasers
[AD-A143928] 23 p3754 N84-33798
Three-dimensional photochemical machining with lasers
[AD-A144096] 23 p3755 N84-33800
Barreira do Inferno: Five years of ozone research
[INPE-2974-PRE/437] 23 p3796 N84-34073
USSR report: Chemistry
[JPRS-UCH-84-007] 24 p3867 N84-34508
Three-dimensional photochemical machining with lasers
[AD-A144656] 24 p3909 N84-34760
Studies of compound states of atomic negative ions using laser beams
[AD-A144653] 24 p3962 N84-35091

PHOTOCHEMISTRY
U PHOTOCHEMICAL REACTIONS

PHOTOCHROMISM
Research Reports of the Faculty of Engineering, no. 31
[DEC/1983/31] 21 p3476 N84-32034
Effect of thermal irradiation from evaporation source to photo-darkening sensitivity of vacuum deposited AgBr film 21 p3477 N84-32038

PHOTOCLINOMETRY
U PHOTOGRAMMETRY

PHOTOCONDUCTIVITY
Amorphous silicon solar cells
[BMFT-FB-T-83-112] 02 p0243 N84-11590
The 1982 International Congress of Photographic Science
[AD-A132372] 04 p0538 N84-13536
Dynamic aspects of the dye-sensitized photoconductivity of semiconductors
[DE84-001132] 04 p0615 N84-14059
Characterization of grain boundaries in silicon
[NASA-CR-173450] 12 p1912 N84-22460
Photoconductivity of alpha-Si-H in infrared range of spectrum 18 p2825 N84-27933
Spectral dependence of magnetoresistivity in heterophase photoconductors based on CdSe 18 p2825 N84-27935
Long wavelength photoconductive detectors for airborne and orbital infrared astronomy
[NASA-CR-166586] 19 p3026 N84-29192
Electronics Division research and development
[DE84-011024] 20 p3180 N84-30200
Impact of weak electric field on photoconductivity of modified vitreous As2Se3 20 p3286 N84-30867
Improvement in quality of silicon-based amorphous films 21 p3477 N84-32041

PHOTOCONDUCTORS
Performance and materials aspects of Ge:Be photoconductors
[NASA-CR-174470] 01 p0155 N84-11023
InP:Fe picosecond photoconductors
[DE83-015237] 02 p0215 N84-11410
Photoconductive power switches
[DE83-015239] 02 p0224 N84-11469
Photoconductor fabrication for operation in the thermal infrared — lead tin tellurides
[INPE-2835-PRE/384] 02 p0298 N84-11952
Performance and materials aspects of Ge:Be and Ge:Ga photoconductors for far-infrared detection
[DE84-003046] 07 p1081 N84-17029
A comparison of signal-to-noise ratios for near-infrared detectors
[AD-A138127] 12 p1907 N84-22426
Research and development on high sensitivity infrared detectors, phase 3, VQM
[BMFT-FB-W-83-032] 12 p1909 N84-22436
Photoconductivity of alpha-Si-H in infrared range of spectrum 18 p2825 N84-27933
Spectral dependence of magnetoresistivity in heterophase photoconductors based on CdSe 18 p2825 N84-27935
Crystalline photoconductive films for electrophotographic recording
[BMFT-FB-T-84-099] 21 p3408 N84-31614
Manufacture and characterization of Pb(1-x)Sn(x)Te photoconductors
[INPE-3045-TDL/157] 22 p3662 N84-33212
Research on the use of metal-organic compounds as photoconductors in electrophotography
[BMFT-FB-T-84-112] 23 p3825 N84-34262

PHOTOCURRENTS
U ELECTRIC CURRENT
U PHOTOELECTRIC EMISSION

PHOTODECOMPOSITION
Polymer degradation on reflecting metal films: Fourier transform infrared (FTIR) reflection-absorbance studies
[DE83-012129] 03 p0404 N84-12641
Crossed molecular beam studies of the reactions of oxygen and fluorine atoms
[AD-A135415] 06 p1124 N84-17309
Products of photodegradation for coumarin laser dyes
[AD-A136306] 09 p1320 N84-18624
Photochemistry and photophysics of laser dyes
[AD-A136330] 09 p1320 N84-18626
Photodegradation of coumarin laser dyes. An unexpected singlet self-quenching mechanism
[AD-A136339] 09 p1321 N84-18628
Laser-induced decomposition of some allyl halides
[AD-A140426] 16 p2463 N84-25786
An experimental approach to evaluating environmental degradation mechanisms in bisphenol-A polycarbonate films on metallic substrates
[SERI/TR-255-1602] 24 p3917 N84-34798

PHOTODETACHMENT
Experimental studies in molecular fragmentation: Processes, energetics and diagnostics
[AD-A136648] 18 p2810 N84-27840
Studies of compound states of atomic negative ions using laser beams
[AD-A144653] 24 p3962 N84-35091

PHOTODETECTORS
U PHOTOMETERS

PHOTODIODES
Development of a HgCdTe photomixer and impedance matched GaAs FET amplifier
[NASA-CR-170608] 02 p0213 N84-11390
Linearity and resolution of photodiodes
[DE84-002761] 07 p0998 N84-16470
3-5 semiconductor lasers and detectors 07 p1009 N84-16541
A new multifunction acousto-optic signal processor 12 p1906 N84-22413
A comparison of signal-to-noise ratios for near-infrared detectors
[AD-A138127] 12 p1907 N84-22426
Investigation of noise in silicon avalanche photodiodes
[FI-14-TBR-11] 14 p2244 N84-24474
A preliminary analysis of a diode array for densitometry 18 p2842 N84-28045
Plans for a fast image recording system at ESO 18 p2842 N84-28046
Irradiation of optimized, MBE grown, AlGaAs radiation hardened photodiode
[DE84-008034] 21 p3504 N84-32208
Characterization of high powered laser diodes — spacecraft communication 24 p3904 N84-34728
Large diameter optical slip-rings
[WSRL-0342-TM] 24 p3963 N84-35095

PHOTODISSOCIATION
Novel techniques for enhanced reflectivity infrared mirrors
[AD-A131924] 03 p0441 N84-12894
Vacuum ultraviolet photofragmentation of H2O and NO2: Laboratory studies and atmospheric applications 06 p0876 N84-15703
Experimental picosecond transient spectra for I2 photodissociation in liquids
[AD-A134371] 07 p0969 N84-16282
Coaxial measurement of the translational distribution of CS produced in the laser photolysis of CS2 at 193nm
[AD-A134613] 07 p0970 N84-16286
Crossed molecular beam studies of the reactions of oxygen and fluorine atoms
[AD-A135415] 06 p1124 N84-17309
Comparison of photon stimulated dissociation of gas phase, solid and chemisorbed water
[AD-A134986] 06 p1125 N84-17314
Photochemical generation of the optoacoustic effect
[DE84-003712] 06 p1228 N84-18023
Development of the CARS method for measurement of pressure and temperature gradients in centrifuges
[DE84-006321] 11 p1629 N84-20660
Experimental studies in molecular fragmentation: Processes, energetics and diagnostics
[AD-A136648] 18 p2810 N84-27840
Theory and experiments on chemical instabilities
[AD-A140947] 18 p2810 N84-27841
Free radical detection and dynamics in propellant ignition and combustion systems
[AD-A142180] 19 p3002 N84-29023
Catalyzed photodissociation of water
[DE84-012253] 21 p3361 N84-31325
Photodissociation of H2O at 15 nm: State distribution and spatial orientation of the OH (x2pi) decay products
[MPIS-5/1984] 23 p3715 N84-33552

PHOTOELASTIC ANALYSIS
A three-dimensional photoelastic investigation of stresses and cracks formed in concrete around deformed reinforcing bars 06 p0862 N84-15621
An integral optical method for determining stress intensity factors 15 p2311 N84-24866
Photoelastic investigation of the stress concentration factor in welded joints — offshore structures
[ND-R-816(R)] 18 p2852 N84-28106
Newly discovered effect of interaction of optical radiation and glass 21 p3482 N84-32069

PHOTOELASTIC STRESS MEASUREMENT
U PHOTOELASTIC ANALYSIS

PHOTOELASTICITY
Photoelastic analysis of direct shear tests for granular materials
[BLL-M-28752-(5828.4)] 09 p1328 N84-18671
An assessment of the accuracy of orthotropic photoelasticity
[NASA-CR-3773] 10 p1516 N84-19924
An evaluation of algorithms for extracting stress intensity factors from photoelastic data for 3 dimensional problems 13 p2000 N84-22974

PHOTOELECTRIC CELLS
NT PHOTOVOLTAIC CELLS
Photoluminescent properties of n-GaAs electrodes: Applications of the dead-layer model to photoelectrochemical cells
[AD-A131901] 02 p0298 N84-11958
Development of a solar energy system
[DE83-014236] 08 p1180 N84-17690
Development of a solar energy system: Executive summary
[DE83-014392] 08 p1181 N84-17693
Scanning photoelectric devices of search and tracking
[AD-A132566] 17 p2671 N84-27027
Apparatus based on holographic focusing diffraction grating for measurement of diffraction efficiency of three-dimensional image holograms 21 p3482 N84-32068
Proceedings of the Solar Thermal-Photochemical Conversion Workshop
[DE84-000089] 22 p3619 N84-32929
System for maintaining the alignment of mandrels in filament winding operations
[DE84-014860] 23 p3727 N84-33617

PHOTOELECTRIC EFFECT
NT PHOTOIONIZATION
Photoelectric master means of measurement of energy and maximum power of pulsed lasers 17 p2637 N84-26872

PHOTOELECTRIC EMISSION
Atomic photoelectron-spectroscopy studies using synchrotron radiation
[DE83-011740] 01 p0037 N84-10235
Recent advances in high-speed photon detectors
[DE83-014862] 02 p0224 N84-11467
Calculating the probability of radiation from the dissociated states of diatomic molecules
[AD-A131069] 02 p0289 N84-11893
HgCdTe surface study program
[AD-A132071] 03 p0349 N84-12266

Coronal transients in FE XIV 5303A: First two-dimensional photoelectric ground-based observations 03 p0466 N84-13072
Photo-induced field emissions from metallic surfaces [DE84-000872] 04 p0601 N84-13966
Direct determination of surface structures from photoelectron diffraction [DE84-002572] 05 p0663 N84-14360
Emission of short-wavelength photons from ion-surface charge exchange [AD-A133163] 06 p0914 N84-15942
Influence of wake and photoemission on electric field measurements with a double probe on GEOS-2 08 p1116 N84-17261
Photoemission spectroscopy and the optical properties of surface [PB84-100445] 08 p1127 N84-17331
Studies of silicon refractory metal interfaces: Photoemission study of interface formation and compound nucleation [AD-A135340] 08 p1131 N84-17358
Angle-resolved photoemission extended fine structure [DE84-002899] 08 p1236 N84-18080
The mechanoluminescence of fibreglass tubes in the plane stressed state [DRIC-T-7014] 09 p1328 N84-18673
The electronic structure of C(2x2)S/Fe(100): S 3p-level dispersions and linewidths. Revision [AD-A138124] 12 p1797 N84-21725
Dispersion spectroscopy of optical electron transfer in solution [AD-A139101] 14 p2121 N84-23713
Inner-shell photoemission from atoms and molecules using synchrotron radiation [DE84-006624] 14 p2223 N84-24339
Effect of multifold trapping of carriers on transient photocurrent in amorphous semiconductors 17 p2635 N84-26860
Auger electron pumping of short wavelength lasers [DE84-009240] 19 p3030 N84-29217
Photoemissive materials for 0.35 Micron laser fiducials in X-ray streak cameras [DE84-006348] 20 p3194 N84-30263
Transient response of GaAs microwave power FET to X-ray pulses [DE84-010145] 20 p3309 N84-31017
Photoemission studies of mixed valent systems [DE84-010797] 20 p3310 N84-31020

PHOTOELECTRIC GENERATORS
On solar thermal electric power capacity sizing 18 p2672 N84-28236

PHOTOELECTRIC MATERIALS
Chemically derivatized semiconductor photoelectrodes [AD-A130716] 01 p0152 N84-11003
Transactions of the Chinese Solar Energy Society (selected articles) [AD-A131870] 03 p0403 N84-12637
Photoelectrochemical cells including chalcogenophosphate photoelectrodes [NASA-CASE-LAR-12958-1] 13 p2007 N84-23019

PHOTOELECTRIC PHOTOMETERS
U ELECTROPHOTOMETERS

PHOTOELECTRICITY
Liquid crystal light valve structures [NASA-CASE-MSC-20036-1] 12 p1912 N84-22457
Photoelectrochemical cells including chalcogenophosphate photoelectrodes [NASA-CASE-LAR-12958-1] 13 p2007 N84-23019
Photovoltaic power system for satellite Earth stations in remote areas: Project status and design description [NASA-TM-83789] 23 p3730 N84-33642

PHOTOELECTROCHEMICAL DEVICES
Photoelectrochemical electrodes [NASA-CASE-NPO-15458-1] 03 p0348 N84-12262
Solar-assisted hydrogen generation by photoelectrocatalysis: Electric birefringence and ellipsometric spectroscopy of the semiconductor/electrolyte interface [PB84-189804] 15 p2288 N84-24731
Zinc selenide photoelectrodes. Efficient radiative recombination in a stable photoelectrochemical cell [AD-A141869] 19 p3051 N84-29360
The photoelectrochemistry of conducting polymers [DE84-010689] 20 p3164 N84-30093

PHOTOELECTROCHEMISTRY
Excited-state processes of relevance to photoelectrochemistry [AD-A131300] 02 p0298 N84-11957
Photovoltaics advanced research and development bibliography [DE83-009399] 02 p0302 N84-11983
Metal oxide anodes for the photoelectrochemical generation of oxygen [DE84-004168] 10 p1456 N84-19511
X-ray photoelectron and Auger electron spectroscopic study of the CdTe surface resulting from various surface pretreatments: Correlations of photoelectrochemical and capacitance-potential behavior with surface chemical composition [AD-A138601] 13 p1956 N84-22714
Photoelectrochemistry at iron oxide electrodes [DE84-011453] 20 p3150 N84-30003
The photoelectrochemistry of conducting polymers [DE84-010689] 20 p3164 N84-30093

PHOTOELECTROMAGNETIC DETECTORS
U RADIATION MEASURING INSTRUMENTS

PHOTOELECTRON SPECTROSCOPY
Quantitative determination of the intensities of known components in spectra obtained from surface analytical techniques [DE84-000926] 04 p0493 N84-13239
Application of surface-physics techniques to the study of electrochemical systems [DE84-000957] 04 p0494 N84-13245
Comparison of autoionization and photoelectron spectra of CO [AD-A133902] 05 p0647 N84-14256
Direct determination of surface structures from photoelectron diffraction [DE84-002572] 05 p0663 N84-14360
Photoelectron studies of resonant multiphoton ionization of CO via the A-1 Pi state [DE83-008535] 06 p0916 N84-15956
Software for computer controlled X-ray photoelectron and Auger Spectroscopy [DE84-003912] 07 p1056 N84-16837
Photoemission spectroscopy and the optical properties of surface [PB84-100445] 08 p1127 N84-17331
Many electron effects in the photoelectron spectra of condensed nitric oxide [AD-A138130] 12 p1791 N84-21681
Momentum dependent line shapes in photoemission [AD-A137968] 12 p1913 N84-22461
X-ray photoelectron and Auger electron spectroscopic study of the CdTe surface resulting from various surface pretreatments: Correlations of photoelectrochemical and capacitance-potential behavior with surface chemical composition [AD-A138601] 13 p1956 N84-22714
Inner-shell photoemission from atoms and molecules using synchrotron radiation [DE84-006624] 14 p2223 N84-24339
Laser photoelectron spectroscopy of ions [DE84-008932] 16 p2812 N84-27852
Chemical bonding, interdiffusion and electronic structure at InP, GaAs, and si-metal interfaces [AD-A141809] 19 p2988 N84-29936
Photoemission studies of mixed valent systems [DE84-010797] 20 p3310 N84-31020
High-resolution spectroscopy and dynamics of multiphoton processes in atoms and molecules [AD-A143017] 21 p3359 N84-31303
Resonance ionization spectroscopy measurement of the vapor pressure of several molecular species [DE84-010656] 21 p3409 N84-31624
Triply differential studies of atomic and molecular photoionization using synchrotron radiation [AD-A142834] 21 p3493 N84-32133
Multiphoton ionization mass and photoelectron spectroscopy [AD-A143823] 23 p3714 N84-33542
Structure and properties of polymers and organosilanes absorbed onto oxidized aluminum and titanium [AD-A143935] 23 p3724 N84-33599

PHOTOELECTRONICS
U ELECTRONICS
U PHOTOELECTRICITY

PHOTOELECTRONS
Transport processes in planetary atmospheres 06 p0939 N84-16104
User's manual of a program to compute the distribution of photoelectrons — atmospheric ionization [CRPE-NT-110] 13 p2012 N84-23054
Photoelectron studies of excited molecular states: H2 C (1)Pi(sub u) and N2 o3 (1)Pi(sub u) [DE84-006663] 20 p3294 N84-30917
Calculation of high altitude electromagnetic pulses due to X and gamma photons [SNIAS-841-422-106] 21 p3388 N84-31504
Triply differential studies of atomic and molecular photoionization using synchrotron radiation [AD-A142834] 21 p3493 N84-32133

PHOTOEMISSION
U PHOTOELECTRIC EMISSION

PHOTOEMISSIVITY
U EMISSIVITY
U PHOTOELECTRIC EMISSION

PHOTOEMITTERS
U PHOTOELECTRIC MATERIALS

PHOTOENGRAVING
Development of fine-structured components for gas discharge displays [BMFT-FB-T-84-031] 19 p3000 N84-29015

PHOTOGEOLOGY
A study of Minnesota land and water resources using remote sensing [E84-10023] 02 p0237 N84-11558
Evaluation of radiometric and geometric characteristics of LANDSAT-D imaging system [E84-10050] 04 p0553 N84-13643
Correlation of LANDSAT and air photo lineans with roof control problems and geologic features [PB83-250852] 04 p0555 N84-13656
Combined use of remote sensing and seismic observations to infer geologically recent crustal deformation, active faulting, and stress fields — California and Pennsylvania [E84-10057] 06 p0864 N84-15628
Evaluation of thermal data for geologic applications [NASA-CR-173211] 07 p1033 N84-16703
Remote sensing and geologic studies of the planetary crusts [NASA-CR-173216] 07 p1091 N84-17092
Requirements for spaceborne remote sensing in geology 08 p1175 N84-17657
Remote sensing for geology 08 p1177 N84-17666
Evaluation of published criteria for identifying metamorphic rocks on air photos: Two case studies in the northeastern United States [AD-A135451] 08 p1177 N84-17672
East Butte: A volcanic dome of the Eastern Snake River Plain, Idaho 13 p2079 N84-23475
Thermal infrared analysis of volcanic surfaces: Mars and Hawaii 13 p2088 N84-23524
Utilization of digital LANDSAT imagery for the study of granitoid bodies in Rondonia: Case example of the Pedra Branca massif [E84-10120] 14 p2167 N84-23979
Multiseasonal variables in digital image enhancements for geological applications [E84-10145] 16 p2508 N84-26093
Field data observed during the geological excursion in the west-central region of the Sul-Riogrande Shield [E84-10146] 16 p2508 N84-26094
Methodological approach in lithological discrimination by digital processing: A case study in the Serra do Ramalho, state of Bahia [INPE-3108-PRE/507] 16 p2509 N84-26101
Evaluation of LANDSAT-4 Thematic Mapper data as applied to geologic exploration: Summary of results — Death Valley, California, Cement-Velma, Oklahoma; Big Horn and Wind River Basins, Wyoming; Spanish Peaks, Colorado; and the Four Corners area (Paradox Basin of Utah and Colorado) 20 p3213 N84-30412
Assessment of computer-based geologic mapping of rock units in the LANDSAT-4 scene of northern Death Valley, California 20 p3214 N84-30416
Age discrimination among basalt flows using digitally enhanced LANDSAT imagery — Saudi Arabia [E84-10189] 21 p3430 N84-31780
Modular Optoelectronic Multispectral Scanner (MOMS) data of Bolivia: Comparison with LANDSAT Multispectral Scanner (MSS) and geological interpretation 23 p3765 N84-33865
The Pilbara district in northwestern Australia: A case study for the geological application of Modular Optoelectronic Multispectral Scanner (MOMS) and LANDSAT data 23 p3765 N84-33867
Interpretation of combined LANDSAT-Heat Capacity Mapping Mission (HCMM) data for geological analysis. Evaluation of scale effect on interpretation of a multisource image 23 p3769 N84-33894
Comparative geologic analysis of LANDSAT and Schuttle Imaging Radar (SIR)-A images of the Adrar des Iforas area in NE Mali 23 p3769 N84-33895

PHOTOGRAMMETRY
Evaluation of controlling low altitude aerial photography using high altitude aerotriangulation 02 p0234 N84-11539
Photogrammetric method for determining geometric visual perception [FOA-C-20478-D6] 07 p1008 N84-16539
Earth Resources: A continuing bibliography with indexes, issue 40 [NASA-SP-7041(40)] 09 p1336 N84-18723
Research, investigations and technical developments: National Mapping Program, 1982 [USGS-OPEN-FILE-83-568] 10 p1524 N84-19985
Rapid extraction of relative topography from Viking orbiter images. 2: Application to irregular topographic features 13 p2087 N84-23523
Antarctic mapping and international coordination 14 p2160 N84-23935
Photogrammetric research [TRITA-FMI-47] 15 p2358 N84-25146

Photogrammetric research at the Royal Institute of Technology, Stockholm, Sweden
15 p2358 N84-25147
Mathematical aspects of digital terrain information. A progress report from ISPRS Working Group III:3
15 p2358 N84-25148
Design of interactive graphics for Digital Elevation Model (DEM) sampling 15 p2358 N84-25149
General triangulation: Incorporating photogrammetric and other observations 15 p2358 N84-25151
GENTRI: A system for simultaneous adjustment of photogrammetric and other observations
15 p2358 N84-25152
The question of accuracy in the transition from analogue to analytic photogrammetry 15 p2359 N84-25153
Multi-models to increase accuracy
15 p2359 N84-25154
Seminar on mathematical models of geodetic/photogrammetric point determination with regard to outliers and systematic errors
[SER-A-66] 16 p2504 N84-26069
Mathematical models of photogrammetric point determination 16 p2504 N84-26070
Stochastic models for point manifolds
16 p2504 N84-26072
Estimation of variances and covariances in the multivariate and in the incomplete multivariate model
16 p2504 N84-26073
Problems of computing costs in decision problems
16 p2505 N84-26075
Reliability and discernability of extended Gauss-Markov models 16 p2505 N84-26076
Several aspects of the sequential processing of photogrammetric bundle blocks
16 p2505 N84-26077
The Danish method: Experience and philosophy
16 p2505 N84-26078
Correlation calculation in stereoscopic image pairs for the automatic acquisition of digital land models, orthopictures and height line planes
[SER-C283] 16 p2505 N84-26079
Fisheye objective in the dose range photogrammetry: Theoretical and practical investigations
[SER-C-286] 16 p2505 N84-26080
Determination of stratospheric wind profiles by digital analysis
[AD-A140502] 16 p2531 N84-26251
A comparison of two photogrammetric algorithms for the measurement of model deformation in the National Transonic Facility
[NASA-TM-85630] 18 p2919 N84-28513
Earth resources, a continuing bibliography with indexes
[NASA-SP-7041(42)] 21 p3425 N84-31725
Mapping project on land use changes in the carboniferous region of Santa Catarina
[NASA-CR-173946] 23 p3763 N84-33853
Irrigated lands: Monitoring by remote sensing
[NASA-CR-173945] 23 p3763 N84-33854
Stereo methods in satellite meteorology
23 p3776 N84-33936

PHOTOGRAPH INTERPRETATION
U PHOTOINTERPRETATION

PHOTOGRAPHIC EMULSIONS
The 1982 International Congress of Photographic Science
[AD-A132372] 04 p0538 N84-13536

PHOTOGRAPHIC EQUIPMENT
NT CAMERAS
NT FAINT OBJECT CAMERA
NT FRAMING CAMERAS
NT HIGH SPEED CAMERAS
NT MULTISPECTRAL BAND CAMERAS
NT PHOTOGRAPHIC PROCESSING EQUIPMENT
NT PINHOLE CAMERAS
NT STREAK CAMERAS
NT TELEVISION CAMERAS
Cryomicrotome applications: Techniques for the study of skeletal materials
[AD-A137010] 10 p1545 N84-20130
Cold regions instrumentation considerations
[AD-A139605] 15 p2338 N84-25024

PHOTOGRAPHIC FILM
NT MICROFILMS
Photographic characteristics of polymer composite including complex with charge transfer
18 p2826 N84-27944
Method for creating synthesized images using diazo color films 19 p2978 N84-28875
Color film preservation system: Breadboard development
[NASA-CR-171099] 19 p3026 N84-29194
Edge blurring in stacked X-ray film screen combinations
[DE84-009658] 19 p3027 N84-29200
Ultraviolet response of film candidates for the solar optical telescope photometric filtergraph
[NASA-CR-175254] 22 p3656 N84-33178
Method of measuring optical properties of a transparency
[AD-D011117] 22 p3658 N84-33188

PHOTOGRAPHIC MEASUREMENT
NT PHOTOGRAMMETRY
Turbulent diffusion, dissipation, and winds from calibrated photographs of artificial clouds
[AD-A143231] 22 p3623 N84-32956

PHOTOGRAPHIC PLATES
Automated microdensitometer for digitizing astronomical plates 18 p2841 N84-26039

PHOTOGRAPHIC PROCESSING
Adaptation and arrangements for transparency microfilming
[INPE-2831-PRE/382] 02 p0222 N84-11454
Computer generated animation and movie production at LARC: A case study
[NASA-CR-172375] 18 p2917 N84-28494
Method for creating synthesized images using diazo color films 19 p2978 N84-28875

PHOTOGRAPHIC PROCESSING EQUIPMENT
Research on the use of metal-organic compounds as photoconductors in electrophotography
[BMFT-FB-T-84-112] 23 p3825 N84-34262

PHOTOGRAPHIC RECORDING
Photographic memory: The storage and retrieval of data 18 p2843 N84-28053
Crystalline photoconductive films for electrophotographic recording
[BMFT-FB-T-84-099] 21 p3408 N84-31614
Development of a 60 cm photographic Zenith telescope, and construction of a prototype
[BMFT-FB-T-84-122] 23 p3826 N84-34263
Method for dynamically recording distortion in a transparency
[AD-D011209] 24 p3902 N84-34707

PHOTOGRAPHIC TRACKING
Automatic camera tracking for remote manipulators
[DE84-011455] 21 p3407 N84-31608

PHOTOGRAPHS
NT MOTION PICTURES
Natural hazards photograph catalog, key to geophysical records documentation no. 20
[PB83-250415] 04 p0557 N84-13674
A gallery of HCMM images 05 p0696 N84-14567

PHOTOGRAPHY
NT ACOUSTICAL HOLOGRAPHY
NT AERIAL PHOTOGRAPHY
NT ALL SKY PHOTOGRAPHY
NT ASTRONOMICAL PHOTOGRAPHY
NT AUTORADIOGRAPHY
NT BLACK AND WHITE PHOTOGRAPHY
NT CINEMATOGRAPHY
NT CLOUD PHOTOGRAPHY
NT COLOR INFRARED PHOTOGRAPHY
NT COLOR PHOTOGRAPHY
NT ELECTRO-OPTICAL PHOTOGRAPHY
NT ELECTRON PHOTOGRAPHY
NT FRACTOGRAPHY
NT HIGH SPEED PHOTOGRAPHY
NT HOLOGRAPHY
NT INFRARED IMAGERY
NT INFRARED PHOTOGRAPHY
NT METRIC PHOTOGRAPHY
NT MICROWAVE HOLOGRAPHY
NT MULTISPECTRAL PHOTOGRAPHY
NT ORTHOPHOTOGRAPHY
NT PHOTOMICROGRAPHY
NT RADAR PHOTOGRAPHY
NT ROCKET-BORNE PHOTOGRAPHY
NT SATELLITE-BORNE PHOTOGRAPHY
NT SCHLIEREN PHOTOGRAPHY
NT SHADOWGRAPH PHOTOGRAPHY
NT SPACEBORNE PHOTOGRAPHY
NT SPECTROPHOTOGRAPHY
NT STEREOPHOTOGRAPHY
NT STEREOSCOPY
NT STREAK PHOTOGRAPHY
NT ULTRAVIOLET PHOTOGRAPHY
NT ULTRAVIOLET PHOTOMETRY
NT UNDERWATER PHOTOGRAPHY
NT WHITE LIGHT HOLOGRAPHY
Utility of the cortical evoked response as a measure of photographic image quality
[AD-A131679] 03 p0377 N84-12455
The use of oil for in-flight flow visualization
[NASA-TM-84915] 05 p0627 N84-14122
Use of LANDSAT MSS (multispectral scanner) digital data in water quality mapping of the Neuse River estuary, North Carolina
[PB83-256750] 06 p0867 N84-15645
Results from first series of Elektrotopograf experiments 12 p1774 N84-21570
An investigation into the sand erosion technique as a means of determining the wind environment around buildings
[BU-294] 15 p2306 N84-24832
A new and unique conductive element for aircraft transparencies
[AD-P003188] 17 p2580 N84-26601

PHOTOINTERPRETATION
Contribution of LANDSAT-4 thematic mapper data to geologic exploration
[E84-10021] 02 p0237 N84-11557
Computer vision research and its applications to automated cartography
[AD-A131289] 02 p0240 N84-11572
Proceedings of the NASA Symposium on Mathematical Pattern Recognition and Image Analysis
[E84-10032] 03 p0392 N84-12557
Actual state and recent evolution of the French coast observed by remote sensing using LANDSAT recordings
03 p0399 N84-12606
Variations in task and the ideal observer
[DE83-015394] 03 p0416 N84-12723
Photo interpretation key to Michigan land cover/use
[E84-10048] 04 p0553 N84-13641
The Heat Capacity Mapping Mission (HCMM) anthology
[E84-10051] 05 p0695 N84-14563
Interpretation of HCMM images: A regional study
05 p0696 N84-14566
Significant results from the HCMM program
05 p0696 N84-14568
Radar image interpretation techniques applied to sea ice geophysical problems 07 p0990 N84-18413
LANDSAT 4 investigation of thematic mapper and multispectral scanner applications
[E84-10075] 07 p1021 N84-16822
Approaches to radar image interpretation
08 p1177 N84-17669
The classifications of metamorphic rocks and their applications to air photo interpretation procedures
[AD-A134965] 08 p1178 N84-17675
APPS-4 (Analytical Photogrammetric Processing System-4) remote sensing applications guide
[AD-A134977] 08 p1178 N84-17676
The AI research environment at the US Army engineer topographic laboratories
[AD-A136316] 09 p1336 N84-18727
Experiments to correct a digital map data base using scene analysis
[AD-A139447] 14 p2248 N84-24499
Methodological preliminaries to the development of an expert system for aerial photo interpretation
[AD-A139899] 15 p2336 N84-25027
Irrigated rice area estimation using remote sensing techniques: Project's proposal and preliminary results — Rio Grande do Sul, Brazil
[E84-10131] 16 p2506 N84-26081
Results of field observations of radio waves in alluvial deposits in Cara state from 1:100.000: Fortaleza, Canirde, Taperuaba, Santa Quiteria, Sobral, and Sao Luiz do Curu
[INPE-3061-NTE/216] 16 p2509 N84-26100
The use of photointerpretation for socio-economic characterization of urban population
[INPE-3067-PRE/484] 16 p2561 N84-26428
LANDSAT 4 investigations of Thematic Mapper and Multispectral Scanner applications
[E84-10152] 17 p2709 N84-27247
Evaluation of spatial, radiometric and spectral Thematic Mapper performance for coastal studies
[E84-10159] 17 p2709 N84-27251
Ocean waves and turbulence as observed with an adaptive coherent multifrequency radar
17 p2714 N84-27279
Deep crustal structure on space images
19 p2977 N84-28869
Sensing of factors involved in development of exogenous processes on space photographs of arid territories 19 p2977 N84-28870
Structural-geomorphological interpretation of lineaments detected from space photographs and patterns of mineral distribution 19 p2977 N84-28871
Parallel image processing and image understanding
[AD-A142162] 19 p3042 N84-29300
The development of a mathematical foundation for cellular image processing
[AD-A142173] 19 p3042 N84-29301
Evidence accumulation for spatial reasoning
[AD-A142174] 19 p3042 N84-29302
Spatial resolution estimation of LANDSAT-4 TM data
20 p3210 N84-30394
A concept for the processing and display of Thematic Mapper data 20 p3214 N84-30417
Forest environments 20 p3218 N84-30439

Age discrimination among basalt flows using digitally enhanced LANDSAT imagery — Saudi Arabia
[E84-10189] 21 p3430 N84-31760
Turbulent diffusion, dissipation, and winds from calibrated photographs of artificial clouds
[AD-A143231] 22 p3823 N84-32956
A comparative study of different products of sensor systems applied in a lithologic-structural analysis of the Quadrilatero Ferrifero area, Minas Gerais
[INPE-3210-TDL/174] 23 p3764 N84-33856
Interactive Automatic System (Iasp): An expert system to help photointerpretation 23 p3779 N84-33961
A method of photo data reduction, with design considerations for the NOVA 800 and UNIVAC 1100/83 computers
[AD-A144537] 24 p3947 N84-34997

PHOTOIONIZATION
Atomic photoelectron-spectroscopy studies using synchrotron radiation
[DE83-011740] 01 p0037 N84-10235
Coulomb explosion and recent methods for studying molecular decomposition
[DE83-012348] 01 p0142 N84-10933
Experimental study of dissociative attachment in optically-pumped lithium molecules
[AD-A131601] 02 p0289 N84-11894
Molecular photoionization studies
[DE83-014263] 02 p0291 N84-11905
The Crab Nebula: A theoretical and observational study 04 p0617 N84-14074
Photoelectron studies of resonant multiphoton ionization of CO via the A-1 Pi state
[DE83-006535] 06 p0916 N84-15956
Liquid-phase photoionization detector for liquid chromatography 13 p1955 N84-22711
Spectroscopic measurements of the Laser-HANE plasma
[AD-A138685] 13 p1995 N84-22947
The electron density and temperature in the photoionized background gas (N2) surrounding a laser produced plasma
[AD-A139651] 13 p2044 N84-23266
Dispersion spectroscopy of optical electron transfer in solution
[AD-A139101] 14 p2121 N84-23713
An X-ray survey of variable radio bright quasars
[NASA-TM-86094] 14 p2250 N84-24512
Shape resonances in molecular fields
[DE84-009206] 15 p2406 N84-25443
Ultraviolet and X-ray observations of active galactic nuclei: Constraints on models of the broad emission line region 15 p2423 N84-25560
Photoionization investigation of iodine molecules and clusters in a supersonic molecular beam
[AD-A142645] 20 p3292 N84-30901
Photoelectron studies of excited molecular states: H2 C (1)Pi(sub u) and N2 o3 (1)Pi(sub u)
[DE84-006663] 20 p3294 N84-30917
Photoionization of excited molecular states using multiphoton excitation techniques
[DE84-004034] 20 p3296 N84-30925
Absolute photoionization cross sections of atomic oxygen
[NASA-CR-173873] 21 p3492 N84-32130
Triply differential studies of atomic and molecular photoionization using synchrotron radiation
[AD-A142834] 21 p3493 N84-32133
Resonances in electron-molecule scattering and photoionization
[DE84-012660] 21 p3494 N84-32139
Photoionization models of the MgII and CIV selected clouds observed in absorption in QSO spectra 22 p3678 N84-33314
Solvation and dielectric dispersion in optical electron transfer
[AD-A144183] 24 p3880 N84-34580
A model of the planetary nebula NGC 3918 based on IUE observations 24 p3978 N84-35195

PHOTOLITHOGRAPHY
Space-variant optical systems
[AD-A130096] 01 p0146 N84-10961
Laser photodeposition and photoetching study
[AD-A134095] 05 p0752 N84-14934
Electrophoretic recording of color images with high quality
[BMFT-FB-T-83-319] 12 p1794 N84-21702
Development of thermionic integrated circuits for applications in hostile environments
[DE84-011374] 21 p3393 N84-31533
Development of optomechanical deflectors for light beams and electronical-optical deflectors with subsequent generation of light to represent characters digitally or partially
[BMFT-FB-T-84-140] 23 p3826 N84-34264

PHOTOLUMINESCENCE
NT X RAY FLUORESCENCE
Amorphous silicon solar cells
[BMFT-FB-T-83-112] 02 p0243 N84-11590
Photoluminescent properties of n-GaAs electrodes: Applications of the dead-layer model to photoelectrochemical cells
[AD-A131301] 02 p0298 N84-11958
Semiconductors investigated by time resolved raman absorption and photoluminescence spectroscopy using femtosecond and picosecond laser techniques
[AD-A131860] 03 p0379 N84-12466
Surface photoluminescence and it application 06 p0815 N84-15304
Photoluminescence excitation of the 1.441-eV cation antisite emission in p-type GaAs
[AD-A134332] 07 p1080 N84-17021
InP materials
[AD-A138992] 13 p2047 N84-23282
Semiconductors investigated by time resolved Raman absorption and photoluminescence spectroscopy using femtosecond and picosecond laser techniques
[AD-A141381] 19 p3029 N84-29209
Electronic properties of amorphous silicon dioxide 22 p3683 N84-33351
Investigation of the MBE growth of InSb and novel quantum well structures
[AD-A144151] 24 p3967 N84-35117

PHOTOLYSIS
NT RADIOLYSIS
Coherent Anti-Stokes Raman Scattering (CARS) detection or hot atom reaction product internal energy distributions
[DE83-012684] 01 p0142 N84-10936
Immobilized chloroplast-ferredoxin-hydrogenase system for the simultaneous photoproduction of hydrogen and oxygen
[DE83-015703] 02 p0205 N84-11333
Molecular-beam studies of photodissociation reactions
[DE83-015962] 02 p0228 N84-11492
Dissociative ionization of liquid water induced by vibrational overtone excitation
[DE83-017739] 04 p0495 N84-13251
Products of photodegradation for coumarin laser dyes
[AD-A136308] 09 p1320 N84-18624
Photodegradation of coumarin laser dyes. An unexpected singlet self-quenching mechanism
[AD-A136339] 09 p1321 N84-18628
Molecular ion photofragment spectroscopy
[DE84-003299] 10 p1577 N84-20333
A shock tube study of chlorine azide decomposition 13 p1958 N84-22728
Uracil and uridine photolysis on lunar soil 14 p2250 N84-24516
Photogalvanic cells driven by electron transfer quenching of excited singlet states
[DE84-009099] 15 p2330 N84-24991
Transient photochemistry of neutral red
[AD-A131564] 18 p2810 N84-27839
Catalyzed photodissociation of water
[DE84-012253] 21 p3361 N84-31325
Disappearance rates of C2(a 3 Pi u) and C2(X 1 Sigma g +) with O2 over the temperature range 298-1300 deg K 21 p3373 N84-31405
Laser-assisted solar cell metallization processing
[NASA-CR-173875] 21 p3409 N84-31619

PHOTOMAPPING
Inventory of Flemish forests using medium-scale Color Infrared (CIR) photography and CIR orthophotoplans as base for a forest management data bank 03 p0400 N84-12614
Automation in digitizing large scale maps 07 p1019 N84-16608
Satellite image atlas of glaciers: The Polar regions 14 p2161 N84-23940
Mars-analog studies in Wright and Victoria Valleys, Antarctica 14 p2163 N84-23951
EPA Enviropod. A summary of the use of the Enviropod under a Memorandum of Understanding among EPA Region 8, the State of Utah, and the University of Utah Research Institute
[E84-10124] 14 p2168 N84-23983
Aerial photography for ecological site mapping 14 p2169 N84-23990
Optical ionospheric mapping
[AD-A140508] 16 p2526 N84-26218
Ocean wind field measurement performance of the ERS-1 scatterometer 17 p2713 N84-27273
Assessment of computer-based geologic mapping of rock units in the LANDSAT-4 scene of northern Death Valley, California 20 p3214 N84-30416
Voyager 1 and 2 atlas of six Saturnian satellites
[NASA-SP-474] 24 p3989 N84-35242

PHOTOMECHANICAL EFFECT
Investigation of static and dynamic fracture of orthotropic media by photomechanics 06 p0863 N84-15625

PHOTOMETERS
NT ELECTROPHOTOMETERS
NT ULTRAVIOLET SPECTROMETERS
A portable, microprocessor controlled, multichannel fluorometer for marine analysis
[AD-A130161] 01 p0083 N84-10542
Electron beam trajectory in a photometer field of view
[AD-A131949] 03 p0432 N84-12831
Large-area mercuric iodide photodectors
[DE83-013035] 03 p0441 N84-12898
Coronal transients in FE XIV 5303A: First two-dimensional photoelectric ground-based observations 03 p0466 N84-13072
Submillimeter astronomy at the NASA/University of Hawaii 3-meter infrared telescope facility
[NASA-CR-173269] 07 p1089 N84-17083
A CCD photometric camera for satellite observation
[AD-A137214] 11 p1660 N84-20633
Comparison of Hapke's photometric theory with Voyager observations of Europa, Enceladus, Rhea and Mimas 13 p2074 N84-23439
Voyager feature-fixed photometry of Iapetus 13 p2074 N84-23440
Theoretical aspects of photoclinometric terrain profiling on the Galilean satellites 13 p2074 N84-23441
Topography on Ganymede derived from photoclinometry 13 p2074 N84-23442
High-resolution color images of Io 13 p2075 N84-23446
Short time-scale surface changes on Io 13 p2075 N84-23447
Fiberoptic probe for measuring high frequency temperature fluctuations in combustion gases
[DE84-006784] 14 p2148 N84-23869
Basic elements of the tilting filter photometer
[INPE-3124-MD/026] 16 p2495 N84-26006
Optical ionospheric mapping
[AD-A140508] 16 p2526 N84-26218
Precision photometer for measurement of low levels of maximum power of pulses laser radiation 17 p2838 N84-26873
Improvements to the Photometric response and positional accuracy of the Yale PDS 2020G microdensitometer 18 p2840 N84-28033
The PDS-VAX intelligent plate scanning system of Trieste Astronomical Observatory 18 p2841 N84-28035
Why use a microdensitometer other than a PDS? 18 p2841 N84-28036
The Sacramento Peak fast microphotometer 18 p2841 N84-28040
Development of a multidetector deflection measurement system
[DE84-009703] 18 p2847 N84-28078
Optical sensing devices
[AD-D011038] 19 p3105 N84-29725
Total aerosol volume computed from laser spectrometer particle-size data for comparison with flame photometer total-mass data
[AD-A143171] 21 p3359 N84-31306
Method and apparatus for precise measurement of long-term stability of photodetectors
[AD-D011190] 24 p3897 N84-34674

PHOTOMETRY
NT ASTRONOMICAL PHOTOMETRY
NT ELECTROPHOTOMETRY
NT SPECTROPHOTOMETRY
NT STELLAR SPECTROPHOTOMETRY
NT ULTRAVIOLET PHOTOMETRY
USSR report: Space, no. 25
[JPRS-84946] 05 p0633 N84-14159
Optical measurements of a large-scale laboratory Beam Plasma Discharge (BPD) 05 p0638 N84-14196
Picking up an object from a pile of objects
[AD-A133631] 05 p0716 N84-14691
Photometric properties of Europa and the icy satellites of Saturn 11 p1756 N84-21465
Dynamics and evolution of cD galaxies 13 p2072 N84-23425
Dust streaks on Mars: Colors and photometry 13 p2082 N84-23489
Preliminary results of albedo correlation between Europa and Ganymede 15 p2427 N84-25581
DOE-2, supplement, version 2.1B
[LBL-8706-REV-3-SUPPL] 16 p2519 N84-26171
Photometric studies of heat flow at the photosphere 17 p2779 N84-27641
Photometric variations of solar-type stars: Results of the Cloudcroft survey 17 p2779 N84-27646
Performance of the ESO PDS 18 p2840 N84-28027
Microdensitometer electronics modification 18 p2840 N84-28030
The current status and future upgrade of the PDS at the Royal Greenwich Observatory 18 p2840 N84-28031

The VAX/VMS device driver and user operation program for the Midwestern Astronomical Data Reduction and Analysis Facility PDS microdensitometer
18 p2841 N84-28036

A microprocessor-based control system for the Vienna PDS microdensitometer
18 p2841 N84-28037

A preliminary analysis of a diode array for densitometry
18 p2842 N84-28045

A new measuring machine in Paris
18 p2842 N84-28047

Next generation microdensitometer
18 p2842 N84-28048

Crystal gazing. Part 2: Implications of advanced in digital data storage technology
18 p2842 N84-28049

The role of the Automated Plate Measuring (APM) machine in developing a program to discover QSOs automatically
18 p2843 N84-28054

NASA-Texas Planetary Program
[NASA-CR-173798] 19 p3121 N84-29842

The occultation of AG+29 deg 398 by 96 Minerva
[NASA-CR-173827] 20 p3319 N84-31066

Analytical methods for determination of inorganic anions
[BLL-WH-592-(9091.9F)] 21 p3358 N84-31301

RECOZ data reduction and analysis: Programs and procedures
[NASA-TM-87365] 24 p3944 N84-34973

PHOTOMICROGRAPHY

Marine manganese accretions: Nodule micronodule comparisons among major ocean basins
02 p0257 N84-11683

Grit blasting a distributed roughness based on a 30% probability of exceedence
[AD-A138779] 13 p1974 N84-22809

Processes controlling the dynamic fracture of brittle solids
[AD-P003108] 16 p2467 N84-25813

Rapidly solidified alloys made by chill block melt-spinning processes
18 p2937 N84-28625

PHOTOMULTIPLIER TUBES

Computation of counting distributions arising from a single-stage multiplicative process
[AD-A131480] 01 p0072 N84-10471

Recent advances in high-speed photon detectors
[DE83-014662] 02 p0224 N84-11467

Evaluation of the Beijing Instrument Factory GDB-44F photomultiplier
[DE84-000849] 03 p0368 N84-12398

Evaluation of Hamamatsu R1635 photomultiplier
[DE84-001252] 04 p0527 N84-13468

Channel electron multiplier and optically coupled amplifier used as an incident-flux monitor
[DE84-001451] 04 p0538 N84-13539

Fast optical position-sensitive detector for McPherson ESCA-36
[AD-A132606] 05 p0685 N84-14501

Calculation of cumulative distributions and detection probabilities in communications and optics
[AD-A136561] 09 p1376 N84-18989

A comparison of signal-to-noise ratios for near-infrared detectors
[AD-A138127] 12 p1907 N84-22426

Multichannel detection systems available for flow diagnostics at AEDC
[AD-A132302] 16 p2452 N84-25722

Precision photometer for measurement of low levels of maximum power of pulsed laser radiation
17 p2638 N84-26873

Microdensitometer electronics modification
18 p2840 N84-29030

An investigation of lyoluminescence techniques for application in radiation protection dosimetry
[PB83-263236] 19 p3053 N84-29373

Measurement of lifetimes of the vibrational levels of the B state of N2
[AD-A142161] 19 p3101 N84-29702

Frequency conversion in photomultiplier during interaction of photoelectron beam and electric field in heterodyne
22 p3568 N84-32599

Study in spurious sensitivity of electronics
[AD-A143947] 23 p3742 N84-33719

PHOTON ABSORPTIOMETRY

Feasibility study on the application of Fabry-Perot interferometry and imaging photon detectors to ocean colour monitoring
[OMD/HVM-83] 23 p3784 N84-34002

PHOTON ABSORPTION

U ELECTROMAGNETIC ABSORPTION

PHOTON BEAMS

NT LIGHT BEAMS

Energy partitioning to product translation in the infrared multiphoton dissociation of diethyl ether
[AD-A131555] 02 p0226 N84-11482

Origin of electron-bombardment enhanced reactivity of graphite with hydrogen
[DE83-017561] 04 p0600 N84-13980

Resonance between channeled particle wavelengths and periodicity of strained-layer superlattices
[DE84-002173] 07 p1081 N84-17032

Photon-burst correlation techniques for atmospheric crosswind measurements
[AD-A134617] 08 p1187 N84-17735

Development of an X-ray facility for radiation dosimetry studies
[MRL-R-910] 16 p2555 N84-26391

Accelerator-based atomic physics experiments with photon and ion beams
[DE84-010789] 20 p3296 N84-30928

New approaches to photothermal spectroscopy
[DE84-009237] 21 p3359 N84-31310

PHOTON-ELECTRON INTERACTION

Fragmentation of small molecules following soft X-ray excitation
[DE83-011645] 02 p0269 N84-11896

Two photon excitation as a tool for atmospheric and kinetic research
[NASA-CR-175378] 08 p1228 N84-18026

Capabilities of broadly-tunable free-electron lasers
[DE84-009998] 19 p3030 N84-29219

Means and method for calibrating a photon detector utilizing electron-photon coincidence
[NASA-CASE-NPO-15644-1] 23 p3749 N84-33767

PHOTONIC PROPULSION

NT LASER PROPULSION

PHOTONICS

OMEGA documentation
[DE84-007014] 14 p2206 N84-24239

A multi-GHz multi-channel photonic analog data processing system
[DE84-012261] 21 p3499 N84-32175

Quantum optics and photonics
22 p3682 N84-33344

PHOTONS

NT LIGHT BEAMS

Vectorized Monte Carlo photon transport
[DE83-014807] 03 p0434 N84-12843

Jet production and high p/sub T/ phenomena in photon-photon reactions
[DE83-016397] 03 p0437 N84-12868

Photon damping in cosmic-ray acceleration in active galactic nuclei
[DE83-011320] 03 p0476 N84-13133

Emission of short-wavelength photons from ion-surface charge exchange
[AD-A133183] 06 p0914 N84-15942

Effect of radiofrequency radiation on DNA duplex stability and replication
[AD-A133526] 07 p1042 N84-16759

Laser-induced molecular dynamics: Rate processes in the gas phase and at solid surfaces
[AD-A134426] 07 p1072 N84-16962

Resonance fluorescence and photon trapping of two atoms on a metallic surface
[AD-A134512] 07 p1072 N84-16964

Molecular ion photofragment spectroscopy
[DE84-003299] 10 p1577 N84-20333

A far-infrared laser study of small-area superconducting tunnel junctions
[AD-A137186] 11 p1744 N84-21383

Continuous energy gamma-ray spectrometry
[DE84-006349] 14 p2123 N84-23726

First infrared radiation detector
14 p2136 N84-23805

Development of high-efficiency concentrator cell configuration
[DE84-008356] 14 p2173 N84-24012

Optical bistability, chaos in the coherent two photon processes
14 p2231 N84-24384

Multistability, self-oscillation and chaos in nonlinear optics
14 p2232 N84-24387

Critical quantum fluctuations in optical bistability
14 p2232 N84-24391

Optical bistability in CuCl
14 p2241 N84-24456

Measurement of electromagnetic shower position and size with a saturated avalanche tube hodoscope and a fine grained scintillation hodoscope
[DE84-007247] 15 p2337 N84-25032

Light scattering measurements of critical fluctuations in an optically thin binary liquid sample
17 p2765 N84-27559

Irradiance from stars based on blackbody theory
[NASA-TM-82582] 17 p2775 N84-27617

Multiphoton ionization spectroscopy and photochemistry of transient species
[DE84-010424] 20 p3295 N84-30922

Photon losses in cosmic ray acceleration in active galactic nuclei
[DE84-012583] 20 p3321 N84-31081

Calculation of high altitude electromagnetic pulses due to X and gamma photons
[SNIAS-841-422-106] 21 p3388 N84-31504

Preliminary design of a 10-kW thermophotovoltaic system for space applications
[NASA-TM-83768] 22 p3543 N84-32427

A study of the temporal and spectral characteristics of gamma ray bursts
22 p3680 N84-33331

Means and method for calibrating a photon detector utilizing electron-photon coincidence
[NASA-CASE-NPO-15644-1] 23 p3749 N84-33767

Compton scattering of photons from electrons in thermal (Maxwellian) motion: Electron heating
[DE84-013860] 23 p3823 N84-34241

PHOTONUCLEAR REACTIONS

A study of thick-target X-ray spectra using photonuclear reactions
[AD-A132543] 04 p0596 N84-13934

Deuteron forward photodisintegration: Meson currents and relativity
[DE84-001314] 07 p1072 N84-16968

Investigations of the structure and electromagnetic interactions of few body systems
[DE84-006852] 12 p1902 N84-22388

PHOTOOXIDATION

Photochemical oxidation of hydrogen iodide by oxygen
[BLL-CE-TRANS-7988-(9022.09)]
19 p2987 N84-28926

PHOTOPEAK

Absolute photopeak efficiency values for an intrinsic well-type Ge detector in the gamma ray region 0.1 to 3.0 MeV
[REPT-2(1984)] 18 p2900 N84-28398

Study of total gamma spectra correlation for extending identification range over photopeak analysis
[AD-A144637] 24 p3962 N84-35090

PHOTOPRODUCTION

Electromagnetic effects in strong field of single crystals
21 p3485 N84-32084

PHOTORECEPTORS

Dynamic models of neural systems: Propagated signals, photoreceptor transduction, and circadian rhythms
[AD-A137826] 11 p1695 N84-21059

Limits of pattern discrimination in human vision
[AD-A139021] 15 p2379 N84-25278

PHOTORECONNAISSANCE

Riparian habitat on the Humboldt River, Deeth to Elko, Nevada
[E84-10116] 14 p2167 N84-23976

Fisheye objective in the dose range photogrammetry: Theoretical and practical investigations
[SER-C-286] 16 p2505 N84-26080

Global biogeochemistry: An overview
20 p3217 N84-30435

PHOTOREDUCTION

U PHOTOCHEMICAL REACTIONS

PHOTORESISTIVITY

U PHOTOCONDUCTIVITY

PHOTORESISTORS

U PHOTOCONDUCTORS

PHOTOSENSITIVITY

NT LIGHT ADAPTATION

NT PHOTOTROPISM

Photoelectrochemical cells including chalcogenophosphate photoelectrodes
[NASA-CASE-LAR-12958-1] 13 p2007 N84-23019

PHOTOSENSORS

U PHOTOELECTRICITY

U RADIATION MEASURING INSTRUMENTS

PHOTOSPHERE

NT SOLAR GRANULATION

The modelling of the solar upper photosphere and lower chromosphere based upon ATM data
[NASA-CR-170920] 02 p0308 N84-12021

Observed distinctive radial sequences of the distinctive atmospheric regions comprising stellar atmospheres
09 p1415 N84-19258

2nd Joint Solar Dynamics Project data summary: Solar magnetic field, chromospheric and coronal observations near the time of the 11 June 1983 solar eclipse
[NASA-CR-173340] 09 p1417 N84-19272

A search variability in the UV spectrum of Pi Aquarii and Fe 3 shell lines of Be stars
[NASA-CR-173611] 16 p2575 N84-26527

Photometric studies of heat flow at the photosphere
17 p2779 N84-27641

The shape of the Sun
21 p3526 N84-32334

PHOTOSYNTHESIS

Photosynthesis in intact plants
[DE83-016045] 02 p0264 N84-11740

Time-resolved laser studies on the energy transfer and the configurational changes in bacteriohodopsin
[DE83-015708] 03 p0382 N84-12487

Fourth International Conference on Photochemical Conversion and Storage of Solar Energy
[DE83-014760] 03 p0403 N84-12638

Fate and effects of metals in the sea-surface microlayer
[DE84-000114] 04 p0569 N84-13752
Yields photosynthetic efficiencies, and proximate chemical composition of dense cultures of marine microalgae, a subcontract report
[DE83-011992] 04 p0570 N84-13757
Investigation of the structure of photosynthetic reaction centers
[DE84-002886] 07 p1043 N84-16760
Chemical and biological processes in CO/sub 2-ocean models
[DE84-003304] 08 p1182 N84-17702
In vitro chlorophyll photosynthetic reaction
[PB84-104892] 08 p1196 N84-17810
Prochloron research
[NASA-CR-173254] 10 p1543 N84-20113
Prochloron-ascidian symbioses: Photosynthetic potential and productivity 10 p1544 N84-20117
Prochloron expedition 10 p1544 N84-20120
Remote sensing of agricultural crops and soils
[E84-10107] 12 p1829 N84-21925
Intercepted photosynthetically active radiation estimated by spectral reflectance — Phoenix, Arizona
[E84-10109] 12 p1829 N84-21927
Particulate models of photosynthesis
[DE84-003947] 12 p1863 N84-22142
Photosynthetic water splitting, phase 1
[DE84-006847] 14 p2124 N84-23729
Energy transfer in real and artificial photosynthetic systems
[DE84-007276] 15 p2378 N84-25275
Investigation of the structure of photosynthetic reaction centers
[DE84-012475] 20 p3150 N84-30005
Salinity and temperature effects on photosynthesis and organic carbon release rates by selected benthic macroalgae
[PB84-163146] 20 p3257 N84-30674
Unraveling photosystems
[DE84-013812] 22 p3629 N84-32994
Effects of prolonged weightlessness on orchidaceae proteins 23 p3605 N84-34130

PHOTOTHERMAL CONVERSION
Remote sensing applications of pulsed photothermal radiometry
[AD-A130154] 01 p0086 N84-10563
Photothermal spectroscopy using a pyroelectric thin film detector
[AD-A134291] 07 p0969 N84-16281
Photoacoustic imaging
[AD-A139298] 14 p2224 N84-24350
Proceedings of the Passive and Hybrid Solar Energy Update
[CONF-830960] 16 p2513 N84-26125
Cooling-load implications for residential passive solar heating systems 16 p2513 N84-26126
A correction factor to f-chart predictions of active solar fraction in active-passive heating systems 16 p2513 N84-26127
Measured versus predicted performance of the SERI test house: A validation study 16 p2513 N84-26128
Systems integration of photovoltaic and passive solar 16 p2513 N84-26129
Energy and peak power saved by passively cooled residences 16 p2513 N84-26130
The predicted impact of linear roof apertures on the energy performance of office buildings 16 p2514 N84-26133
Status of the class A performance evaluation program 16 p2514 N84-26134
Results from the NBS passive test building: A status report 16 p2514 N84-26135
Parameter estimation and infiltration tests at the repeat facility 16 p2514 N84-26136
Passive solar manufactured buildings development and analyses 16 p2514 N84-26137
Measured performance of 50 passive solar residences in the United States 16 p2514 N84-26138
Development of an industry-based residential thermal program evaluation program 16 p2515 N84-26139
International energy agency solar heating and cooling programme: Task 8, passive and hybrid solar low energy buildings 16 p2515 N84-26140
The DOE passive solar commercial buildings program: Preliminary results of performance evaluation 16 p2515 N84-26141
Field instrumentation for the passive solar commercial buildings monitoring program 16 p2515 N84-26142
Thermal effects resulting from occupant behavior and building operation 16 p2515 N84-26143
Do users ruin design intentions? 16 p2515 N84-26144
Survey of design tools for passive and hybrid low energy buildings 16 p2516 N84-26147
Development of an evaluation methodology for passive solar design tools 16 p2516 N84-26148
Multi-family update to the passive solar construction handbook 16 p2516 N84-26149
The transfer of passive research and development results to industry and the user community 16 p2516 N84-26151
Passive solar design guidelines and evaluation criteria for builders 16 p2516 N84-26153
Convective heat transfer inside passive solar buildings 16 p2517 N84-26154
Initial results from testing passive solar components in the NBS calorimeter 16 p2517 N84-26160
Development of solar materials and components 16 p2518 N84-26162
Infrared photothermal radiometry
[AD-A140562] 17 p2785 N84-27561
A transmittance-optimized, point-focus Fresnel lens solar concentrator 18 p2871 N84-28228
Advanced solar receivers 18 p2872 N84-28232
New approaches to photothermal spectroscopy
[DE84-009237] 21 p3359 N84-31310
PCMSOL-1: A computer simulation code for a direct gain passive solar structure. Part 2: PCMSOL-1 users guide
[ORNL/CSD-127/P-2] 23 p3790 N84-34040
Pulsed photothermal radiometry for noncontact spectroscopy, material testing and inspection measurement
[AD-A144640] 24 p3964 N84-35101

PHOTOTHERMOTROPISM
U ANISOTROPY
U PHOTOTROPISM
U TEMPERATURE EFFECTS

PHOTOTROPISM
An investigation of the phototropic effect on seedling orientation in a microgravity environment: A student involvement project — radish germination 18 p2800 N84-27771

PHOTOTUBES
NT PHOTOMULTIPLIER TUBES
Procurement of materials required to fabricate and test space-qualified quadrant photo tubes for the SHAD satellite sensor
[AD-A139882] 15 p2280 N84-24696

PHOTOVOLTAGES
Design and development of a stand-alone concentrator photovoltaic array
[DE84-005860] 11 p1675 N84-20930
Materials, Processes and Testing Laboratory. Summarizing module performance at MIT Lincoln Laboratory experimental photovoltaic test sites, 1977 - 1982
[DOE/ET-20279/188] 16 p2512 N84-26122
A comparative evaluation of new low-cost array field designs for grid-connected photovoltaic systems
[DE84-010978] 21 p3435 N84-31797
Photovoltaic power system for satellite Earth stations in remote areas: Project status and design description
[NASA-TM-83789] 23 p3730 N84-33642

PHOTOVOLTAIC CELLS
Tenth Photovoltaic Concentrator Project Integration Meeting
[DE83-012338] 02 p0242 N84-11587
New materials for organic photovoltaic cells
[DE83-016845] 03 p0404 N84-12645
Design analysis of advanced photovoltaic technologies
[DE84-000008] 04 p0557 N84-13675
Photovoltaic-cell-reseach priorities
[DE84-000066] 04 p0559 N84-13683
Photovoltaic concentrators: Recent developments
[DE84-001641] 04 p0559 N84-13687
Proceedings of the US Department of Energy Photovoltaics Program Annual Review
[DE83-010325] 05 p0699 N84-14589
Design and fabrication of a prototype system for photovoltaic residences in the southwest
[DE82-016271] 05 p0700 N84-14592
The value of residential photovoltaic systems: A comprehensive assessment
[NASA-CR-173205] 07 p1025 N84-16843
Solid State Photovoltaics Research Branch
[DE84-000022] 07 p1063 N84-17043
Advanced photovoltaic system simulator to demonstrate the performance of advanced photovoltaic cells and devices
[DE83-009405] 08 p1180 N84-17688
Increased voltage photovoltaic cell
[NASA-CASE-NPO-16155-1] 11 p1673 N84-20917
Thermionic-photovoltaic energy converter
[NASA-CASE-LEW-14077-1] 11 p1673 N84-20918
Photovoltaic energy systems
[DOE/CE-0033/1] 12 p1838 N84-21979
Proceedings of the Flat-Plate Solar Array Project Research Forum on Photovoltaic Metallization Systems
[NASA-CR-173477] 12 p1838 N84-21980
Non-noble metal based metallization systems 12 p1839 N84-21993
Technical applications of solar energy. Project photovoltaic systems and project selective coatings
[BMFT-FB-T-83-299] 12 p1844 N84-22025
Advanced photovoltaic experiment (S0014) 15 p2274 N84-24657
Qualification testing of solar photovoltaic powered refrigerator freezers for medical use in remote geographic locations
[NASA-CR-168181] 15 p2361 N84-25162
Solar photovoltaic powered refrigerators/freezers for medical use in remote geographic locations
[NASA-CR-168268] 15 p2361 N84-25163
Publications of the Jet Propulsion Laboratory 1982
[NASA-CR-173539] 15 p2417 N84-25510
Materials, Processes and Testing Laboratory. Summarizing module performance at MIT Lincoln Laboratory experimental photovoltaic test sites, 1977 - 1982
[DOE/ET-20279/188] 16 p2512 N84-26122
Systems integration of photovoltaic and passive solar 16 p2513 N84-26129
Feasibility of using Photovoltaic Power Systems (PPS) with High Pressure Sodium (HPS) lamps for magazine entry lighting
[AD-A140146] 16 p2519 N84-26169
Summary of photovoltaic system performance models
[NASA-CR-173737] 18 p2870 N84-28220
Investigation of accelerated stress factors and failure/degradation mechanisms in terrestrial solar cells
[NASA-CR-173757] 18 p2870 N84-28222
Environmental, health and safety assessment of photovoltaics
[NASA-CR-173739] 18 p2877 N84-28267
High-speed growth of silicon crystals: Flat-plate solar array perspective 18 p2935 N84-28615
Study report on a modular photovoltaic power supply system for space application
[BMFT-FB-W-84-010] 19 p2983 N84-28904
Synthesis of major economic studies of residential photovoltaics
[NASA-CR-173766] 19 p3049 N84-29349
Photovoltaic concentrators: Present status and future role
[DE84-005520] 20 p3235 N84-30532
Photovoltaics: Electricity from Sunlight, five-year research plan, 1984-1988
[DE84-010679] 20 p3236 N84-30544
Quantum well multijunction photovoltaic cell
[DE84-011113] 21 p3393 N84-31529
Improved photovoltaic cells and electrodes
[DE84-011105] 21 p3393 N84-31530
Photovoltaics: The endless spring
[NASA-TM-83684] 21 p3433 N84-31782
Superlattice structures grown by molecular beam epitaxy
[DE84-011288] 21 p3505 N84-32209
The NASA photovoltaic technology program
[NASA-TM-83685] 22 p3542 N84-32426
Preliminary design of a 10-kW thermophotovoltaic system for space applications
[NASA-TM-83768] 22 p3543 N84-32427
Proceedings of the Flat-Plate Solar Array Project Research Forum on the Design of Flat-Plate Photovoltaic Arrays for Central Stations
[NASA-CR-173918] 22 p3582 N84-32663
Source-circuit design with multiple photovoltaic manufacturers 22 p3582 N84-32665
Hot-spot heating in central-station arrays 22 p3582 N84-32666
A review and summary of cell and module mismatch losses from theoretical and experimental studies 22 p3583 N84-32669
Electrical insulation design requirements and reliability goals 22 p3583 N84-32691
Laboratory experience with voltage breakdown 22 p3583 N84-32693
Breakdown of organic insulators 22 p3583 N84-32694
Photovoltaic system grounding and fault protection 22 p3584 N84-32696
Grounding and fault protection of the SMUD PVI array 22 p3584 N84-32698
Photovoltaic central station step and touch potential considerations in grounding system design 22 p3584 N84-32699
Interface standardization 22 p3584 N84-32700
Evolution of integrated panel structural design and interfaces for PV power plants 22 p3584 N84-32701
Is structural interface standardization beneficial? 22 p3585 N84-32702

Qualification and testing of modules
22 p3585 N84-32704
Qualification testing and electrical measurement experience: A manufacturer's view
22 p3585 N84-32705
Qualification testing for a central station
22 p3585 N84-32706
Module utilization committee
[NASA-CR-173898] 22 p3617 N84-32920
Influence of the interfacial layer on electrooptical properties of heterojunction solar cells
[DE84-013285] 22 p3618 N84-32925
Thermal modeling of line focus photovoltaic systems
[DE84-013920] 22 p3618 N84-32927
High-efficiency multi-colored photovoltaic cells
[PB84-200575] 22 p3619 N84-32932
Photovoltaic module encapsulation design and materials selection, volume 2
[NASA-CR-173902] 23 p3786 N84-34013
Process research of non-CZ silicon material
[NASA-CR-173954] 23 p3787 N84-34017
Progress research of non-Cz silicon material
[NASA-CR-173949] 23 p3787 N84-34021
Thin-film photovoltaic research and development program of the Solar Energy Research Institute
[SERI/TP-211-2125] 23 p3829 N84-34290
Process and apparatus for growing a crystal ribbon
[NASA-CASE-NPO-15629-1] 24 p3966 N84-35113

PHOTOVOLTAIC CONVERSION
USAF advanced terrestrial energy study. Volume 2: Technology handbook
[AD-A133272] 06 p0873 N84-15684
USAF advanced terrestrial energy study. Volume 4: Analysis, data, and bibliography
[AD-A133514] 06 p0874 N84-15686
Development and prototype production of photovoltaic energy supply systems
[BMFT-FB-T-83-238] 10 p1531 N84-20025
Thermionic-photovoltaic energy converter
[NASA-CASE-LEW-14077-1] 11 p1673 N84-20916
Meteorological/atmospheric effects on the performance of solar photovoltaic energy conversion devices
[DE84-000018] 11 p1674 N84-20927
R and D decision methods for photovoltaic program planning
[DE84-000011] 12 p1918 N84-22494
Study of systems and technology for liquid hydrogen production independent of fossil fuels
[NASA-CR-173422] 13 p1965 N84-22768
Photoelectrochemical cells including chalcogenophosphate photoelectrodes
[NASA-CASE-LAR-12958-1] 13 p2007 N84-23019
Photovoltaic energy systems: Program summary fiscal year 1983
[DE84-009179] 15 p2364 N84-25186
Survey of design tools for passive and hybrid low energy buildings 16 p2516 N84-26147
The transfer of passive research and development results to industry and the user community
16 p2516 N84-26151
Study of concentration for space photovoltaic generator: Executive summary
[SNIAS-2726-CA/EM/G] 19 p2983 N84-28903
Photovoltaics: Electricity from Sunlight, five-year research plan, 1984-1988
[DE84-010679] 20 p3236 N84-30544
Activities at the Brookhaven National Laboratory integrated test bed for advanced hydrogen technology
[DE84-010226] 21 p3374 N84-31409
SERI photovoltaics advanced research and development: FY 1983 accomplishments
[DE84-004493] 21 p3434 N84-31789
Design, analysis and test verification of advanced encapsulation systems
[NASA-CR-173955] 23 p3787 N84-34016

PHOTOVOLTAIC EFFECT
Maintenance-free, deep-discharge, lead-acid battery for photovoltaic applications: Phase two
[DE83-013561] 02 p0214 N84-11401
Effect of silane fraction on the optoelectronic and photovoltaic properties of RF-glow-discharge a-Si:H prepared from SiH4 + H2 mixtures
[DE83-016730] 04 p0615 N84-14058
Solar cells of metal-free phthalocyanine dispersed in polyvinyl carbazole. 1: Effects of the recrystallization of H2PC on cell characteristics
[NASA-TM-77043] 07 p1025 N84-16639
Chinese journal of infrared research (Selected articles)
[AD-A135504] 08 p1232 N84-18051
Innovative concepts for photovoltaic applications
[DE84-005247] 11 p1674 N84-20923
Proceedings of the Flat-Plate Solar Array Project Research Forum on Photovoltaic Metallization Systems
[NASA-CR-173477] 12 p1838 N84-21980
Getting the current out 12 p1838 N84-21986
Photovoltaic power conditioning subsystem: State of the art and development opportunities
[NASA-CR-173458] 12 p1842 N84-22009
Field experience with voltage breakdown in photovoltaic (PV) arrays
[DE84-005551] 12 p1844 N84-22020
Low-frequency switching voltage regulators for terrestrial photovoltaic systems
[NASA-TM-83625] 16 p2483 N84-25926
Space power technology into the 21st Century
[NASA-TM-83690] 17 p2616 N84-26746
Summary of photovoltaic system performance models
[NASA-CR-173737] 18 p2870 N84-28220
Solid state photovoltaic research
[DE84-004494] 18 p2942 N84-28656
Power plants in space
[AD-A142099] 19 p2983 N84-28902
Chemical bonding, interdiffusion and electronic structure at InP, GaAs, and si-metal interfaces
[AD-A141809] 19 p2988 N84-28936
NASA-OAST photovoltaic energy conversion program
19 p3044 N84-29308
Photovoltaic-electrolyzer system transient simulation results
[DE84-010217] 20 p3149 N84-29995
Technical and cost potential for lightweight, stretched-membrane heliostat technology
[DE84-004433] 20 p3236 N84-30543
Preliminary design of a 10-kW thermophotovoltaic system for space applications
[NASA-TM-83768] 22 p3543 N84-32427
Flate-plate photovoltaic power systems handbook for Federal agencies
[NASA-CR-173901] 22 p3617 N84-32921
Stand-alone flat-plate photovoltaic power systems: System sizing and life-cycle costing methodology for Federal agencies
[NASA-CR-173903] 22 p3618 N84-32922
Effects of expiration of the Federal energy tax credit on the National Photovoltaics Program
[NASA-CR-173900] 22 p3675 N84-33299
Design, analysis and test verification of advanced encapsulation systems
[NASA-CR-173941] 23 p3789 N84-34028

PHTHALOCYANIN
Phthalocyanine derivatives specifically designed for fabrication of organic semiconductor gas sensors
[AD-A130611] 01 p0083 N84-10540
Solar cells of metal-free phthalocyanine dispersed in polyvinyl carbazole. 1: Effects of the recrystallization of H2PC on cell characteristics
[NASA-TM-77043] 07 p1025 N84-16639
Metal phthalocyanine polymers
[NASA-CASE-ARC-11405-1] 18 p2817 N84-27884

PHUGOID OSCILLATIONS
U OSCILLATIONS
U OSCILLATORS
U PITCH (INCLINATION)

PHYSICAL CHEMISTRY
NT QUANTUM CHEMISTRY
Applications of molecular quantum mechanics to problems in chemistry
[DE83-015843] 03 p0456 N84-13003
Formation of structure of low-alloy steel inoculated with rare-earth metals and alkaline earth metals
[BLL-M-35321] 04 p0497 N84-13258
Proceedings of the 4th International Conference on Physicochemical Hydrodynamics
[DE83-012765] 04 p0537 N84-13532
Activities of the National Chemical Research Laboratory
[CSIR-SR-CHEM-261] 06 p0796 N84-15188
Basic and applied research in the field of electronics and communications
[AD-A135283] 08 p1150 N84-17487
European Scientific Notes, volume 38, number 1
[AD-A136666] 10 p1598 N84-20472
The role of water in slip casting
[NASA-TM-77578] 14 p2134 N84-23786
Amorphous metallic materials
24 p3870 N84-34528

PHYSICAL CONSTANTS TESTING REACTOR
U NUCLEAR RESEARCH AND TEST REACTORS

PHYSICAL ENDURANCE
U PHYSICAL FITNESS

PHYSICAL EXAMINATIONS
Non-invasive methods of cardiovascular exploration in aerospace medicine
[AGARD-AG-277(E)] 11 p1699 N84-21082
Main electrocardiographic abnormalities in the medical examination of flying personnel
11 p1699 N84-21083
Contribution of standard X-ray to cardiovascular exploration during the clinical examination of flying personnel 11 p1700 N84-21088
Contribution of cardiac mechanograms in the expert examination of flying personnel
11 p1700 N84-21089
Echocardiography in the expert examination of flying personnel 11 p1700 N84-21090

PHYSICAL EXERCISE
Energy metalbolism enzymes in simulation of some spaceflight factors 02 p0260 N84-11704
Device for graded exercising of rats in pressure chamber 02 p0282 N84-11719
Effect of atropine on the exercise-heat performance of man
[AD-A131843] 03 p0416 N84-12719
Adaptations to a high fat diet which increase exercise endurance in male rats 04 p0570 N84-13755
Physiological responses of normotensives and essential hypertensives to exercise in the heat
04 p0572 N84-13768
Effects of acute cold exposure on submaximal endurance performance
[AD-A132581] 05 p0712 N84-14665
Electromyographic analysis of the peroneous longus during bicycle ergometry across work load and pedal type
[AD-A132550] 05 p0712 N84-14666
Aerobic fitness and the hypohydration response to exercise-heat stress
[AD-A132263] 05 p0713 N84-14669
Stress fractures: The remodelling response to excessive repetitive loading
[AD-A130881] 06 p0887 N84-15765
Increased metabolism and dead space as components of ventilation at high altitude
[AD-A130827] 06 p0887 N84-15766
Differentiated ratings of perceived exertion and selected physiological responses during prolonged upper and lower body exercise
[AD-A134066] 06 p0887 N84-15769
Evaluation of human blood morphological composition during exercise in sealed chamber with different concentrations of ammonia 07 p1045 N84-16779
Prevention of flight fatigue by physical training
08 p1198 N84-17812
Overuse injuries of the lower extremities associated with marching, jogging and running. A review
[AD-A134672] 08 p1200 N84-17824
Physiological responses to prolonged upper body exercise
[AD-A134811] 08 p1200 N84-17826
A study on the gastrointestinal hormones and the gastric acid secretion during physical stress in man
[NDRE/PUBL-83/1001] 10 p1548 N84-20136
Heat exchange during upper and lower body exercise
[AD-A136015] 10 p1548 N84-20146
Short-term human respiratory effects of nitrogen dioxide: Determination of quantitative dose-response profiles. Phase 1: Exposure of healthy volunteers to 4 PPM NO/sub 2
[PB84-132299] 10 p1548 N84-20148
The effect of aerobic capacity on VO2 max values measured during leg ergometry and combined arm and leg ergometry 10 p1548 N84-20149
Metabolic characteristics of post-exercise ketosis: The protective effects of training 10 p1549 N84-20152
Effects of dietary sodium intake on body and muscle potassium content in unacclimatized men during successive days of work in the heat
10 p1549 N84-20153
Exercise in the heat. Effects of saline or bicarbonate infusion
[AD-A137194] 11 p1696 N84-21061
The exercise electrocardiogram
11 p1699 N84-21085
Cardiac swimming and a traditional rehabilitation program of bike-walk-jog; a comparison of maximal oxygen consumption and strength 12 p1864 N84-22148
Influence of hydration level and body fluids on exercise performance in the heat
[AD-A139284] 15 p2360 N84-25281
Hematologic and biochemical data on healthy individuals participating in a physical conditioning program
[AD-A140464] 16 p2536 N84-26278
Stress biochemistry: Non-invasive measurement techniques in military subjects
[AD-A141598] 19 p3065 N84-29447
Upper body exercise performance: Comparison between women and men
[AD-A142330] 19 p3066 N84-29454
Effect of body temperature on human work capacity
21 p3455 N84-31926
Ultrastructural alterations in skeletal muscle fibers of rats after exercise
[NASA-TM-76976] 23 p3804 N84-34117
Physical training of cosmonauts for intercosmos program missions 23 p3805 N84-34129

PHYSICAL FACTORS
Studies of emotional instability in smoke from fires: Decrease of thinking powers and of memory in fire smoke 04 p0511 N84-13355
PHYSICAL FITNESS
Physical fitness as a moderator of cognitive degradation during sleep deprivation
[AD-A131962] 03 p0415 N84-12718
Aerobic fitness and the hypohydration response to exercise-heat stress
[AD-A132263] 05 p0713 N84-14669
Effect of the microclimate on the night sleep and physical fitness of seamen during a cruise in the low latitudes 08 p1196 N84-17813
Non-invasive methods of cardiovascular exploration in aerospace medicine
[AGARD-AG-277(E)] 11 p1699 N84-21082
The exercise electrocardiogram 11 p1699 N84-21085
Cardiac swimming and a traditional rehabilitation program of bike-walk-jog; a comparison of maximal oxygen consumption and strength 12 p1864 N84-22148
Human strength capabilities for the operation of parachute ripcords and riser releases
[AD-A136326] 12 p1868 N84-22174
Aerobic/calisthenic and aerobic/circuit weight training programs for Navy men: A comparative study
[AD-A140971] 18 p2900 N84-28396
Physical performance tests as predictors of task performance
[AD-P003257] 18 p2905 N84-28424
Psychological evaluation of aircrew members
[AD-P003286] 18 p2908 N84-28440
Recommendations for the conduct of physical training in cold weather
[AD-A142137] 19 p3066 N84-29449
Validation of the military entrance physical strength capacity test
[AD-A142169] 19 p3066 N84-29451
The influence of cardiorespiratory fitness on the decrement in maximal aerobic power at high altitude
[AD-A142218] 19 p3066 N84-29452
Innovations in cosmonaut medical monitoring, physical conditioning 21 p3347 N84-31229
Physical training of cosmonauts for intercosmos program missions 23 p3805 N84-34129
PHYSICAL OPTICS
USSR report: Science and technology, no. 19
[JPRS-84497] 01 p0054 N84-10348
Academician outlines accomplishments, new developments in optical physics 01 p0055 N84-10359
Fundamentals and techniques of nonimaging optics, volume 2
[DE83-015447] 03 p0442 N84-12902
Two methods for calculating the physical optics field
[AD-A139116] 14 p2224 N84-24347
PHYSICAL SCIENCES
Computational modeling and mathematics applied to the physical sciences
[DE84-008252] 14 p2214 N84-24301
Middle East Technical University Journal of Pure and Applied Sciences, volume 15, no. 3 15 p2401 N84-25411
PHYSICAL WORK
Assessment of the functional state of the heart muscle in aircrew members by means by bicycle ergometry 08 p1199 N84-17815
Physiological, biomechanical, and medical aspects of lifting and repetitive lifting: A review
[AD-A136689] 10 p1547 N84-20140
Functional status in relation to work, performance and health 18 p2895 N84-28366
EEG informational content in prediction of work performance 18 p2895 N84-28368
Circulatory dynamics in expeditionary tour of duty 18 p2896 N84-28372
Individual responses to combined heat and physical load 18 p2896 N84-28374
PHYSICIANS
Goals of cosmonaut At'kov's medical studies on 'Salyut-7' 19 p2971 N84-28827
Medical-psychological problems of the occupational reliability of flight personnel 23 p3807 N84-34136
PHYSICS
Academician outlines accomplishments, new developments in optical physics 01 p0055 N84-10359
Cognitive processes and knowledge structures used in solving physics problems
[PB83-225177] 01 p0157 N84-11033
The future of computing technology in physics: The potentials and pitfalls
[DE84-007249] 15 p2389 N84-25330
Activities report of the Institute of Extraterrestrial Physics
[MPE-181] 15 p2423 N84-25557
Physics in Europe: A data file of selected research
[AD-A143428] 22 p3674 N84-33289
East Europe report: Scientific affairs
[JPRS-ESA-84-007] 23 p3728 N84-33628
PHYSIOCHEMISTRY
Calcium and mitosis 02 p0262 N84-11722
Countercurrent distribution of biological cells
[NASA-CR-170958] 06 p0885 N84-15755
Exhaust emissions from a diesel engine
[PB84-122910] 08 p1184 N84-17713
Effect of decimeter waves on physical-chemical state of membranes, thymocyte chromatin and immunological reactivity of an organism 17 p2742 N84-27411
Development of space holography 19 p2972 N84-28839
PHYSIOGRAPHY
U GEOMORPHOLOGY
PHYSIOLOGICAL DEFENSES
Effect of decimeter waves on physical-chemical state of membranes, thymocyte chromatin and immunological reactivity of an organism 17 p2742 N84-27411
PHYSIOLOGICAL EFFECTS
NT HEMODYNAMIC RESPONSES
NT PHYSIOLOGICAL RESPONSES
The physiological effects of simultaneous exposures to heat and vibration
[NASA-TM-84400] 01 p0113 N84-10732
Condition of erythrocytes during long-term exposure to magnetic field 02 p0261 N84-11711
Gravitational study of the central nervous system 02 p0263 N84-11730
Physical fitness as a moderator of cognitive degradation during sleep deprivation
[AD-A131962] 03 p0415 N84-12718
Effect of atropine on the exercise-heat performance of man
[AD-A131843] 03 p0416 N84-12719
Physiological function of combustion gas and especially that of CN 04 p0514 N84-13376
Respiratory effects on population from low-level exposures to ozone
[PB83-246132] 04 p0573 N84-13774
The 5th Symposium on Gravitational Physiology 05 p0634 N84-14166
Bibliography of research reports and publications issued by the Toxic Hazards Division, 1957-1982
[AD-A133637] 05 p0713 N84-14672
The effects of dehydration on peripheral cooling
[AD-A130838] 06 p0887 N84-15767
Differentiated ratings of perceived exertion and selected physiological responses during prolonged upper and lower body exercise
[AD-A134086] 06 p0887 N84-15769
Benzodiazepine effects on arousal threshold during sleep
[AD-A133151] 07 p1047 N84-16792
Age, altitude, and workload effects on complex performance
[AD-A133594] 07 p1047 N84-16793
Clines induced by a geographical barrier
[MC-TW-244/83] 07 p1065 N84-16908
Biochemical indicators of thermal stress: Selected genetic and physiological parameters
[PB84-100122] 08 p1196 N84-17808
Prevention of flight fatigue by physical training 08 p1198 N84-17812
The effect of smoking on the non-specific resistance of the organism of seamen at sea 08 p1199 N84-17816
Water immersion and its computer simulation as analogs of weightlessness
[NASA-CR-171746] 08 p1200 N84-17821
Physiological responses to prolonged upper body exercise
[AD-A134811] 08 p1200 N84-17826
Arctic personnel effects
[AD-A134892] 08 p1201 N84-17829
Structural development and gravity 09 p1353 N84-18842
The effects of spaceflight on the mineralization of rat incisor dentin 09 p1353 N84-18845
Influence of stress, weightlessness, and simulated weightlessness on differentiation of preosteoblasts 09 p1354 N84-18846
Morphological and histochemical studies of bone and cartilage during periods of stimulated weightlessness 09 p1354 N84-18847
Homeostasis in primates in hyperacceleration fields 09 p1354 N84-18852
Set-point changes in hierarchically-arranged thermogenic systems 09 p1355 N84-18853
Gravity, body mass and composition, and metabolic rate 09 p1355 N84-18854
Extensions of suspension systems to measure effects of hypokinesia/hypodynamia and antiorthostasis in rats 09 p1355 N84-18855
Regulation of hematopoiesis in the suspended rat as a model for space flight 09 p1355 N84-18856
The effect of physical stress on gastric secretion and pancreatic polypeptide levels in man 10 p1548 N84-20138
Exercise in the heat. Effects of saline or bicarbonate infusion
[AD-A137194] 11 p1696 N84-21061
Attention, performance, and sustained activation in military air traffic controllers 11 p1698 N84-21076
Methods and major findings of cardiovascular exploration involving the human centrifuge 11 p1701 N84-21097
Biological effects of electric fields: An overview
[DE84-005888] 12 p1864 N84-22144
Muscle tone changes in individuals of different age groups submitted to simulated weightlessness 12 p1864 N84-22150
The effects of Gx, Gy and Gz forces on cone mesopic vision
[AD-A139486] 14 p2185 N84-24092
Effects of stressors on task performance and satisfaction
[AD-A139039] 14 p2187 N84-24101
USSR report: Space Biology and Aerospace Medicine, volume 18, no. 2, March - April 1984
[JPRS-USB-84-004] 15 p2374 N84-25247
New book on metabolism under hypodynamic conditions 15 p2378 N84-25271
Effects of heat acclimation on atropine impaired thermoregulation
[AD-A139292] 15 p2390 N84-25282
The physical and psychological factors governing sound-image quality
[NHK-SERIAL-298] 15 p2403 N84-25424
Hematologic and biochemical data on healthy individuals participating in a physical conditioning program
[AD-A140464] 16 p2536 N84-26278
Aeromedical support in military helicopter operations 16 p2536 N84-26280
Thermal control problems in military helicopters 16 p2537 N84-26286
Physiological assessment of capacity for processing increasing amounts of visual information by human operators 17 p2740 N84-27398
Are living cells sensitivity to gravity?
[DFVLR-MITT-83-19] 17 p2743 N84-27418
The research program of the Institute for Aerospace Medicine 17 p2744 N84-27419
A mechanical model of the human body and its application 17 p2744 N84-27421
Cardiovascular reactions on orthostasis and weightlessness 17 p2744 N84-27424
The deep diving simulator TITAN: Physiological problems of stays in large water depths 17 p2745 N84-27427
The effects of nonphysiological oxygen supply on the organism 17 p2745 N84-27428
Motor performance in irradiated rats as a function of radiation source, dose, and time since exposure
[AD-A141209] 18 p2894 N84-28363
Effects of natural light conditions on biorhythms in polar dwellers 18 p2897 N84-28376
Effects of short-term heat adaptation on certain indicators of physical capacity for work 18 p2897 N84-28380
Criteria of human cold adaptation 18 p2897 N84-28381
Aftereffects associated with one and two stressors across conditions of complete, partial, or no control
[AD-P003299] 18 p2908 N84-28446
The influence of cardiorespiratory fitness on the decrement in maximal aerobic power at high altitude
[AD-A142218] 19 p3066 N84-29452
Circadian pattern of simian functional parameters during hypokinesia and in the recovery period 20 p3253 N84-30650
Dynamics of red blood cell changes in rats during acute immobilization 20 p3254 N84-30651
Ultrasound distribution and bone calcium content in experimental animals submitted to hypokinesia and weightlessness 20 p3254 N84-30652
Functional state and work capacity of man when breathing oxygen and hypoxic mixtures under positive pressure 20 p3254 N84-30654
Adrenal-hypothalamus-pituitary system reactions in rats cooled in a hypoxic-hypercapnic gas atmosphere 20 p3254 N84-30655
Individual distinctions of human sleeping respiration at altitude of 4200 meters 20 p3256 N84-30663
Bilateral carotid ligation and effects of electromagnetic field on conditioned reflex retention and cerebral nucleic acid levels 20 p3258 N84-30677

Time-dependent spinal cord changes following nonionizing microwave irradiation
20 p3258 N84-30678
Influence of microwave electromagnetic radiation and certain hormones on osmotic resistance of mouse erythrocytes 20 p3259 N84-30682
Preliminary result of our new Nationwide Evaluation of X-ray Trends (NEXT) program for Italy
[ISS-L-84/3] 20 p3260 N84-30693
USSR report: Space
[JPRS-USP-84-004] 21 p3347 N84-31228
Medical research in first 100 days of Salyut-7 flight
21 p3347 N84-31230
Cosmonaut Berezovoy's memoirs on 211-day spaceflight 21 p3347 N84-31231
Excerpt from cosmonaut Aleksandrov's flight diary
21 p3347 N84-31232
Hypokinesia experiment studies effects of weightlessness 21 p3347 N84-31234
Noise as a public health problem, volume 1
[AD-A142412] 21 p3436 N84-31799
Noise as a public health problem, volume 2
[AD-A142413] 21 p3436 N84-31800
Stability of physiological and psychological human functions under extreme environmental conditions
21 p3453 N84-31910
First mixed crew in space 21 p3454 N84-31917
Realization of human work capacity: Interdisciplinary problems 21 p3454 N84-31920
Analysis of some aspects of mechanism of action of helium-neon laser 21 p3455 N84-31922
Pharmacologic counter measures minimizing post-space flight orthostatic intolerance — bed rest, drug disposition, and physiological function
[NASA-CR-173861] 21 p3457 N84-31936
Occupational Medicine Relevant to Aviation Medicine
[AGARD-CP-341] 22 p3631 N84-33011
Hydrazine toxicology: Impact on safety and health in military aviation 22 p3631 N84-33013
Handling of hydrazine in the Royal Danish Air Force
22 p3631 N84-33014
An unusual toxicological property of alcohol: The density effect on the organ of balance 22 p3632 N84-33016
The so-called Wolff's law and the adaptation of bone to microgravity 23 p3808 N84-34145
Morphometric and biophysical study of bone tissue in immobilization-induced osteoporosis in the growing rat
23 p3809 N84-34152
Use of primate model in weightlessness bone physiology. Histological approach after iliac crest biopsy
23 p3809 N84-34155

PHYSIOLOGICAL FACTORS
NT PHYSICAL FACTORS
Physiological and psychological aspects of the piloting of modern high-performance combat aircraft
06 p0778 N84-15099
Increase in whole-body peripheral vascular resistance during three hours of air or oxygen prebreathing
[NASA-TM-58261] 20 p3259 N84-30684

PHYSIOLOGICAL RESPONSES
NT HEMODYNAMIC RESPONSES
USSR report: Space Biology and Aerospace Medicine, volume 17, no. 5, September - October 1983
[JPRS-84655] 02 p0259 N84-11693
Study of cardiovascular system during long-term spaceflights 02 p0259 N84-11694
Device for graded exercising of rats in pressure chamber 02 p0262 N84-11719
The Regulatory Functions of Calcium and the Potential Role of Calcium in Mediating Gravitational Responses in Cells and Tissues
[NASA-CP-2286] 02 p0262 N84-11720
Effects of pulsed microwaves at 1.28 and 5.62 GHz on Rhesus monkeys (Macaca mulatta) performing an exercise task at three levels of work
[AD-A132057] 03 p0413 N84-12704
A restraint chair with rowing-like movement for exposing exercising nonhuman primates to microwave irradiation
[AD-A132047] 03 p0413 N84-12705
Combined effects of ionizing radiation and anticholinesterase exposure on rodent motor performance
[AD-A131847] 03 p0414 N84-12707
Naloxone does not affect ventilatory responses to hypoxia and hypercapnia in rats
[AD-A131836] 03 p0414 N84-12708
Physiological responses of normotensives and essential hypertensives to exercise in the heat
04 p0572 N84-13768
Decompression procedures for flying after diving, and diving at altitudes above sea level
[AD-A132039] 04 p0572 N84-13771
Motion sickness incidence: Distribution of time to first emesis and comparison of some complex motion conditions
[AD-A131930] 04 p0573 N84-13772
Bibliography of Soviet Laser Developments, number 60, July August 1982
[AD-A133932] 05 p0759 N84-14978
Evaluation of factors producing visual evoked response variability
[AD-A133917] 06 p0888 N84-15772
Neurobehavioral effects of carbon monoxide (CO) exposure in humans protocol 1
[AD-A133891] 06 p0888 N84-15774
Changes in the T and B systems of immunity in seamen during a long cruise 08 p1199 N84-17819
Autonomic influences on peripheral circulatory and thermal responses to cold
[AD-A134444] 08 p1201 N84-17831
Single trial brain electrical patterns of an auditory and visual perceptuomotor task
[AD-A135545] 09 p1362 N84-18899
The application of a superconducting quantum interference device second-order gradiometer to measure visual evoked responses
[AD-A136407] 12 p1865 N84-22156
A user-oriented and computerized model for estimating vehicle ride quality
[NASA-TP-2299] 12 p1866 N84-22162
Biochemical measurements of the human stress response
[AD-A139381] 14 p2184 N84-24089
Cardiovascular and respiratory responses to muscular activity during immersion in water at different temperatures
[AD-A136894] 14 p2185 N84-24094
Effects of stressors on task performance and satisfaction
[AD-A139039] 14 p2187 N84-24101
A non-dimensional analysis of cardiovascular response to cold stress. Part 1: Identification of the physical parameters that govern the thermoregulatory function of the cardiovascular system
[AD-A136710] 15 p2380 N84-25285
Physiological assessment of aircraft pilot workload in simulated landing and simulated hostile threat environments
[AD-A140469] 16 p2538 N84-26297
Sex steroids do not affect muscle weight, oxidative metabolism or cytosolic androgen reception binding of functionally overloaded rat Plantaris muscles
[NASA-CR-173630] 17 p2739 N84-27394
Automatic control of a visual physiology experiment, using MINC
[AD-A140607] 17 p2745 N84-27431
The influence of sleep state on ventilatory control in humans 17 p2746 N84-27435
Motor performance in irradiated rats as a function of radiation source, dose, and time since exposure
[AD-A141209] 18 p2894 N84-28363
Individual responses to combined heat and physical load 18 p2896 N84-28374
Biofeedback regulation of pulmonary ventilation
18 p2897 N84-28378
Spatiotemporal structure of quanta of industrial work and its physiological basis 18 p2897 N84-28379
Human response to pyridostigmine bromide
[AD-A140960] 18 p2900 N84-28395
Transient evoked potential in a critical event detection task
[AD-A141335] 18 p2900 N84-28397
Effects of emotional and perceptual-motor stress on a voice recognition system's accuracy: An applied investigation
[AD-A142554] 20 p3175 N84-30160
Age-related responses to de- and hyperhydration
21 p3452 N84-31905
Effects of whole-body cold exposure on erythrocyte morphology 21 p3452 N84-31906
Effects of climate on kininogen levels in healthy human subjects 21 p3452 N84-31907
Heart rhythm changes in response to sensorimotor load of varying complexity 21 p3452 N84-31908
Variability of practice and the transfer of training of motor skills
[AD-A142896] 21 p3459 N84-31942
Measurement and modification of sensorimotor system function during visual-motor performance
[AD-A142919] 21 p3461 N84-31947
Physiological-hygienic criteria of medical selection of military servicement for work in a hot climate
23 p3807 N84-34135

PHYSIOLOGICAL TESTS
NT CARBOXYHEMOGLOBIN TEST
NT VESTIBULAR TESTS
Assessment of the functional state of the heart muscle in aircrew members by means by bicycle ergometry
08 p1199 N84-17815
The U.S. Air Force neurophysiological workload test battery: Concept and validation
11 p1696 N84-21064
Physiological acceptability tests of the modified SJU-5/A ejection seat for the F-18 aircraft
[AD-A139416] 14 p2103 N84-23614
Effects of short-term heat adaptation on certain indicators of physical capacity for work
18 p2897 N84-28380
Criteria of human cold adaptation
18 p2897 N84-28381
Response of cardiac rhythm to information load
18 p2898 N84-28384
Role of feedback in regulation of ideomotor movements 18 p2898 N84-28386
Physical performance tests as predictors of task performance
[AD-P003257] 18 p2905 N84-28424
Visual field perimeter and psychomotor tracking performance measuring apparatus
[AD-D011056] 22 p3596 N84-32775
Portable visual function tester
[AD-D011105] 22 p3599 N84-32795
Physical training of cosmonauts for intercosmos program missions 23 p3805 N84-34129
Spatial performance, cognitive representation and cerebral procedures
[AD-A144095] 23 p3811 N84-34163

PHYSIOLOGY
NT AUDIOLOGY
NT BODY COMPOSITION (BIOLOGY)
NT ELECTROPHYSIOLOGY
NT EXERCISE PHYSIOLOGY
NT HEMATOPOIETIC SYSTEM
NT NEUROPHYSIOLOGY
NT PSYCHOPHYSIOLOGY
NT RESPIRATORY PHYSIOLOGY
NT WORKLOADS (PSYCHOPHYSIOLOGY)
Summary of study group session discussions
02 p0264 N84-11739
Research Laboratory of Electronics
[AD-A135319] 08 p1150 N84-17488
The Alpha-Helix Concept: Innovative utilization of the Space Station Program. A report to the National Aeronautical and Space Administration requesting establishment of a Sensory Physiology Laboratory on the Space Station
[NASA-CR-175436] 11 p1621 N84-20610
Physiological data acquisition system and motion sickness prevention trainer
[AD-A138361] 12 p1865 N84-22153
ONR (Office of Naval Research) Far East Scientific Bulletin. Volume 9, Number 1, January to March 1984
[AD-A140826] 17 p2770 N84-27589
Speech communication 22 p3684 N84-33358

PHYTOTRONS
Phytochrome from green plants: Assay, purification, and characterization
[DE83-017447] 03 p0414 N84-12710
Feasibility study of an automatic protein growth facility using the retrievable carrier — EURECA project
[MBB-URV-131(82)] 09 p1263 N84-18246

PICKLING (METALLURGY)
Utilization of zirconium wastes in Al-special alloys
[BMFT-FB-T-84-020] 16 p2465 N84-25802

PICKOFFS
U SENSORS

PICKUPS
U SENSORS

PICOSECOND PULSES
High charge picosecond pulses with a double gap subharmonic buncher
[DE83-011743] 01 p0143 N84-10939
Subpicosecond-relaxation studies using tunable-laser-induced-grating techniques
06 p0848 N84-15531
Picosecond laser studies of excited state processes
[AD-A136137] 09 p1323 N84-18846
Picosecond laser pulse interactions with metallic and semiconductor surfaces
[AD-A135693] 09 p1395 N84-19112
Study of VUV generation by coherent resonant frequency mixing in metal vapors
[AD-A140800] 17 p2663 N84-26989
Measurement techniques using ultrashort optical pulses
[DE84-009241] 19 p3105 N84-29728
New phase transition in Si and GaAs exposed to picosecond laser pulses 20 p3266 N84-30666
Picosecond parametric optical oscillator with amplification of radiation from tunable semiconductor laser 21 p3487 N84-32097

PIEDMONTS
The hardwood resource on nonindustrial private forest land in the southeast Piedmont
[PB83-252759] 04 p0556 N84-13663

PIEZOELECTRIC CERAMICS
Targeted basic studies of ferroelectric and ferroelastic materials for piezoelectric transducer applications
[AD-A132136] 04 p0526 N84-13461
Targeted basic studies of ferroelectric and ferroelastic materials for piezoelectric transducer applications
[AD-A132262] 04 p0612 N84-14043
Temperature effects of cement joints in ceramic-stack resonators
[AD-A137435] 10 p1486 N84-19716
Electronic damping of a large optical bench
10 p1514 N84-19914
An oscillating capacity electrometer for space applications
[IFSI-84-6] 18 p2807 N84-27823
PIEZOELECTRIC CRYSTALS
Surface acoustic wave/silicon monolithic sensor/processor
[NASA-CR-174541] 01 p0056 N84-10366
Technology of thin silicon foils in reapect to the fabrication of monolithic integrated sensors
[BMFT-FB-T-83-069] 02 p0206 N84-11347
Nonlinear elastic behavior of piezoelectric trigonal crystals: Measurements on quartz and LiNbO3
[AD-A131350] 02 p0296 N84-11956
The Shock and Vibration Digest, volume 15, no. 5
[AD-A131729] 10 p1505 N84-19838
Dynamic applications of piezoelectric crystals. Part 3: Experimental studies 10 p1505 N84-19840
Discrete charge diagnostics on Pre-DIRECT COURSE
[AD-A139073] 13 p1990 N84-22919
Synthesis of resin polymers for chemical agent defense
[AD-A141035] 18 p2818 N84-27892
High temperature and post irradiation piezoelectric properties of strontium niobate, Sr2Nb2O7
[AERE-R-11112] 18 p2820 N84-27906
Single crystal growth of ferroelectric tungsten bronze compositions for SAW applications
[AD-A141741] 19 p3110 N84-29763
Method for evaluation of petroleum products corrosivity using piezoelectric crystals, part 1 — jet engine fuel corrosion tests
[FOA-C-40189-B4-PT-1] 23 p3726 N84-33611
PIEZOELECTRIC GAGES
Multidirectional force and moment transducer
17 p2629 N84-26816
PIEZOELECTRIC TRANSDUCERS
NT PIEZOELECTRIC GAGES
Targeted basic studies of ferroelectric and ferroelastic materials for piezoelectric transducer applications
[AD-A132136] 04 p0526 N84-13461
Targeted basic studies of ferroelectric and ferroelastic materials for piezoelectric transducer applications
[AD-A132262] 04 p0612 N84-14043
Description of a calibrator for piezoelectric pressure transducers
[FOA-C-20496-D4] 05 p0686 N84-14507
The use of matrix transducers in medium thickness welding inspection
[CISE-2075] 06 p0855 N84-15572
Study of vibration resonance frequencies in rats
07 p1046 N84-16784
Analysis and acoustooptical measurements of bulk and surface acoustic wave fields
[NASA-CR-173271] 07 p1069 N84-16945
Temperature effects of cement joints in ceramic-stack resonators
[AD-A137435] 10 p1486 N84-19716
Determining and modeling the response of piezoresistance transducers to dynamic loading
[AD-A137121] 10 p1498 N84-19788
Electronic damping of a large optical bench
10 p1514 N84-19914
Pressure compensated force transducer — for fishing nets 17 p2629 N84-26817
Investigation of plane phased array of piezoelectric transducers with one-lobe directivity diagram
17 p2639 N84-26883
Geoacoustic method for continuous monitoring of stressed-strained state of Earth's crust
17 p2706 N84-27231
Variable pulse width piezoelectric ultrasonic transducer driver
[AERE-R-11071] 18 p2845 N84-28064
Piezoelectric deicing device
[NASA-CASE-LEW-13773-2] 22 p3597 N84-32782
PIEZOELECTRICITY
Organotin piezo- and pyroelectric polymer films
[DE83-009903] 02 p0201 N84-11306
Sputtered C-axis inclined piezoelectric films and shear-wave resonators
[DE83-017253] 03 p0455 N84-12997
Spectroscopy of thermal energy transport
[AD-A134670] 08 p1235 N84-18073
Temperature-compensated piezoelectric materials
[AD-A139279] 14 p2242 N84-24460
Piezoelectric properties and ferroelectric hysteresis effects in unaxially stretched Nylon-11 films
[AD-A140683] 17 p2768 N84-27575
High temperature and post irradiation piezoelectric properties of strontium niobate, Sr2Nb2O7
[AERE-R-11112] 18 p2820 N84-27906
Switchable zero order diffraction gratings as light valves
[AD-A142513] 20 p3300 N84-30953
Research pressure instrumentation for NASA Space Shuttle main engine, modification no. 5
[NASA-CR-171122] 21 p3404 N84-31594
Research pressure instrumentation for NASA Space Shuttle main engine, modification no. 6
[NASA-CR-171126] 22 p3597 N84-32780
Monolithic SAW oscillators on silicon
[AD-A143664] 23 p3741 N84-33716
Piezoelectric shear wave resonator and method of making same
[DE84-014528] 23 p3751 N84-33780
PIEZOMETERS
Piezometer probe technology for geotechnical investigations in coastal and deep-ocean environments
[AD-P002689] 11 p1659 N84-20824
PIEZORESISTIVE TRANSDUCERS
NT PIEZOELECTRIC GAGES
Carbon piezoresistive stress gauge
[DE83-016505] 02 p0224 N84-11470
Investigation of the precision and utilization of a digital barometer based on the piezoresistive principle
02 p0233 N84-11531
Research pressure instrumentation for NASA Space Shuttle main engine, modification no. 5
[NASA-CR-173860] 21 p3405 N84-31596
Research pressure instrumentation for NASA Space Shuttle main engine, modification no. 5
[NASA-CR-171125] 22 p3597 N84-32781
PIGEONS
The initial orientation of homing pigeons on the magnetic equator, with and without Sun compass
[INPE-3104-PRE/503] 16 p2534 N84-26271
PIGMENTS
NT CAROTENE
NT CHLOROPHYLLS
NT CYTOCHROMES
NT VISUAL PIGMENTS
An evaluation of a hydrophobic silica pigment used as a water-repellent finish
[AD-A137389] 10 p1466 N84-19575
Diffusely reflecting paints including polytetrafluoroethylene and method of manufacture
[NASA-CASE-GSC-12883-1] 15 p2300 N84-24806
The alpha-crustacyanin, the lobster carapace astaxanthin-protein 23 p3804 N84-34122
PILE FOUNDATIONS
Fixity of members embedded in concrete
[AD-A138862] 13 p1974 N84-22610
Load-transfer criteria for numerical analysis of axially loaded piles in sand. Part 1: Load-transfer criteria
[AD-A139236] 14 p2134 N84-23788
PILOT ERROR
Single pilot IFR program overview and status
03 p0311 N84-12030
General aviation single pilot IFR autopilot study
03 p0312 N84-12035
System safety study of minimum TCAS II (Traffic Alert and Collision Avoidance System)
[AD-A138674] 13 p1929 N84-22548
Analysis of incidents during helicopter missions
[FOA-C-53016-H2] 18 p2790 N84-27706
Correlations between incidents during helicopter missions and background variables and moods
[FOA-C-53017-H2] 18 p2790 N84-27707
PILOT PERFORMANCE
Aircraft accident report: Midair collision of North American Rockwell Aero Commander model 560E, N3827C and Cessna 182Q, N96402, Livingston, New Jersey, November 20, 1982
[PB83-910403] 01 p0006 N84-10036
Flying training R&D (Research and Development) at the Air Force Human Resources Laboratory
[AD-A130250] 01 p0116 N84-10752
Development of real-time ATC simulation facility
02 p0168 N84-11106
Cockpit voice recognition program at Princeton University 02 p0169 N84-11109
Computer generated pictorial stores management displays for fighter aircraft
[AD-A131412] 02 p0179 N84-11168
Single pilot IFR program overview and status
03 p0311 N84-12030
Study to determine the IFR operational profile and problems to the general aviation pilot
03 p0311 N84-12032
Analysis of general aviation single-pilot IFR incident data obtained from the NASA Aviation Safety Reporting System 03 p0312 N84-12033
Pilot response with conventional displays
03 p0313 N84-12040
Single pilot scanning behavior in simulated instrument flight 03 p0313 N84-12041
Display research: Pilot response with the "follow-me" box display 03 p0313 N84-12043
A comparison of manual and vocal response modes for the control of aircraft subsystems
[AD-A132048] 03 p0330 N84-12152
Aircraft accident report - United Airlines Flight 2885, N8053U, McDonnell Douglas DC-8-54F, Detroit, Michigan, January 11, 1983
[PB83-910407] 04 p0481 N84-13168
A study on airborne integrated display system and human information processing
[NASA-TM-77338] 06 p0891 N84-15789
Detection of latent atherosclerotic stenosing lesions to great vessels of the head in flight personnel
07 p1048 N84-16787
Age, altitude, and workload effects on complex performance
[AD-A133594] 07 p1047 N84-16793
Low-level flight simulation: Vertical cues
[AD-A133612] 07 p1050 N84-16802
Objective measure of pilot workload
[NASA-CR-173296] 08 p1205 N84-17858
A theoretical approach to measuring pilot workload
[NASA-CR-173297] 08 p1205 N84-17859
Effects of motion base and g-seat cueing of simulator pilot performance
[NASA-TP-2247] 09 p1255 N84-18189
Low-speed handling qualities of advanced transport aircraft: A comparison of ground-based and in-flight simulator experiments
[NLR-TR-82041-U-REV] 09 p1258 N84-18212
Comparison of the longitudinal flying qualities of an optimal pilot model, a ground-based simulator and an airborne simulator
[AD-A135853] 09 p1259 N84-18218
Velocity control decision-making ability: Relationship to flying capability and experience
[AD-A136546] 09 p1363 N84-18901
Part-task training strategies in simulated carrier landing final approach training
[AD-A136670] 10 p1549 N84-20156
Pilot behavior models for LSO (Landing Signal Officer) training systems
[AD-A135823] 10 p1552 N84-20169
Accuracy of visually perceived roll angle and roll rate using an artificial horizon and peripheral displays
[VTH-LR-377] 10 p1552 N84-20171
A review of recent developments in flight test techniques at the Ames Research Center, Dryden Flight Research Facility
[NASA-TM-86039] 11 p1606 N84-20515
Space shuttle pilot-induced-oscillation research testing
[NASA-TM-86034] 11 p1615 N84-20566
Aspects of medical examinations of airmen with regard to eye diseases 11 p1694 N84-21048
Military Medical Journal, no. 11, November 1983
[L-2539] 11 p1694 N84-21050
Methods and means of improving the working capability of flight personnel 11 p1694 N84-21051
Laboratory studies of aircrew chemical protective ensemble: Effects on pilots' performance
11 p1697 N84-21066
Hypnotics and air operations
11 p1697 N84-21072
An optimal control approach to pilot/vehicle analysis and Neal-Smith criteria
[NASA-CR-170416] 12 p1771 N84-21551
Effects of extended use of AN/PVS-5 night vision goggles on helicopter pilots' performance
[AD-A138126] 12 p1868 N84-22173
Evaluation of eye movement training for Navy pilots
[AD-A139489] 14 p2185 N84-24091
Human factors affecting pilot performance in vertical and translational instrument flight
[AD-A139141] 14 p2187 N84-24105
Optimal cooperative control synthesis applied to a control-configured aircraft
[NASA-CR-170411] 15 p2264 N84-24593
A simplified method of evaluating aircraft handling qualities using a pilot transfer function model
[GU-AERO-8302] 15 p2264 N84-24595
Evaluation of some hemodynamic parameters of pilots during flights 15 p2376 N84-25256
Full scale wind tunnel tests on hang glider pilots
[CA-8416] 16 p2438 N84-25643
Statistical review of alcohol-involved aviation accidents
[NTSB-SS-84-03] 16 p2445 N84-25681

Stressful mission profiles, part 1
16 p2536 N84-26281
Stressful mission profiles, part 2: Workload and fatigue
16 p2536 N84-26282
Visual problems in helicopter operations
16 p2536 N84-26283
Disorientation in helicopter flight
16 p2536 N84-26284
Hearing loss associated with helicopter flight
16 p2537 N84-26285
Oculometric indices of simulator and aircraft motion
[NASA-CR-3801] 16 p2537 N84-26291
Development of a model for human operator learning in continuous estimation and control tasks
[AD-A140320] 16 p2538 N84-26294
Physiological assessment of aircraft pilot workload in simulated landing and simulated hostile threat environments
[AD-A140469] 16 p2538 N84-26297
Investigation of interactions between helmet-mounted sight/display, sensor platform and human pilot
[ESA-TT-746] 16 p2539 N84-26299
The project Cockpit Instruments and Human Engineering as part of a joint research program on aircraft guidance and control at the Technical University of Brunswick
[ESA-TT-783] 16 p2539 N84-26300
Flight dynamics and aircraft piloting
[ONERA-P-1983-1] 16 p2539 N84-26301
Single-pilot IFR flights and operations
[SNIAS-832-210-103] 16 p2552 N84-26374
Visual effects of F-16 Canopy/HUD (Head-Up Display) integration
[AD-P003221] 17 p2595 N84-26634
Analysis of incidents during helicopter missions
[FOA-C-53016-H2] 18 p2790 N84-27706
Correlations between incidents during helicopter missions and background variables and moods
[FOA-C-53017-H2] 18 p2790 N84-27707
Simulator design features for air-to-ground bombing. Part 1: Performance experiment 1
[AD-A141190] 18 p2786 N84-27753
Motion simulation with a G-seat system: Sensory and performance mechanisms
[AD-P003267] 18 p2907 N84-28432
Initial validation of a functional age profile for aviators
[AD-P003271] 18 p2907 N84-28436
Perceptual factors in low altitude flight
[AD-P003329] 18 p2911 N84-28460
Horizontal diplopia thresholds for head-up displays
[AD-A141985] 20 p3129 N84-29872
Analysis of computer interactive tests for assigning helicopter pilots to different missions
[AD-A142434] 20 p3262 N84-30696
The measurement of pilot performance: A master-journeyman approach
[AD-A142457] 20 p3262 N84-30698
Research on computer aided testing of pilot response to critical in-flight events
[NASA-CR-173871] 21 p3460 N84-31945
Pilot oriented performance measurement
[AD-P003450] 21 p3508 N84-32227
Low-Altitude Database Development Evaluation and Research (LADDER)
[AD-P003468] 21 p3511 N84-32243
An unusual toxicological property of alcohol: The density effect on the organ of balance 22 p3632 N84-33016
Visual information transfer. 1: Assessment of specific information needs. 2: The effects of degraded motion feedback. 3: Parameters of appropriate instrument scanning behavior
[NASA-CR-173913] 22 p3633 N84-33020
Medical-psychological problems of the occupational reliability of flight personnel 23 p3807 N84-34136

PILOT PLANTS

Ocean energy systems
[DE84-005200] 15 p2364 N84-25182

PILOT SELECTION

USSR report: Space Biology and Aerospace Medicine, volume 17, no. 5, September - October 1983
[JPRS-84655] 02 p0259 N84-11693
Experimental psychological methods used in expert evaluation of mental work capacity of flight personnel in the presence of functional disturbances and central nervous system diseases 02 p0261 N84-11712
A method of assessing cardiac function with bicycle ergometry in expert medical certification of pilots
02 p0262 N84-11716
Distribution of visual characteristics of Naval aviation personnel
[AD-A135930] 10 p1547 N84-20144
Performance consistency on a perceptual-motor task as a correlate of achievement motivation
[AD-A135933] 10 p1552 N84-20170
Hearing loss associated with helicopter flight
16 p2537 N84-26285

PILOT TRAINING

Air Force and Navy trainer aircraft acquisition programs
[PB83-231076] 01 p0002 N84-10012
Low altitude simulator training: A-10 aircraft
[AD-A130794] 01 p0016 N84-10106
Flying training R&D (Research and Development) at the Air Force Human Resources Laboratory
[AD-A130250] 01 p0116 N84-10752
Companion trainer aircraft: Concept test
[AD-A131378] 02 p0268 N84-11757
Controls, Displays, and Information Transfer for General Aviation IFR Operations
[NASA-CP-2279] 03 p0311 N84-12029
Low-level flight simulation: Vertical cues
[AD-A133612] 07 p1050 N84-16802
Instructor station display for use in T-37 flight simulation training
[AD-A134854] 08 p1106 N84-17191
Visual cues in the simulation of low-level flight
[AD-A135461] 08 p1202 N84-17839
Analysis of the pilot conversion process for the Air Force T-46A jet trainer aircraft
[AD-A134404] 08 p1203 N84-17845
Surface-attack mission simulation: Preliminary scenario evaluation
[AD-A135868] 09 p1259 N84-18219
Part-task training strategies in simulated carrier landing final approach training
[AD-A136670] 10 p1549 N84-20156
The role of simulation in the development and flight test of the HIMAT vehicle
[NASA-TM-84912] 12 p1769 N84-21537
Evaluation of eye movement training for Navy pilots
[AD-A139489] 14 p2185 N84-24091
An analysis of the implementation plan for the conversion from the T-37 to the T-46 aircraft in undergraduate pilot training
[AD-A141199] 18 p2793 N84-27726
Static versus dynamic presentation of visual cues in simulated low level flight
[AD-P003360] 18 p2913 N84-28473
Cognitive organization as a function of flying experience
[AD-A141767] 19 p3068 N84-29459
Analysis of computer interactive tests for assigning helicopter pilots to different missions
[AD-A142434] 20 p3262 N84-30696
New concepts in aircrew training using computer generated imagery: A study report
[AD-P003451] 21 p3509 N84-32228
Visual cueing effectiveness: Comparison of perception and flying performance
[AD-P003458] 21 p3510 N84-32235
A four-dimensional thunderstorm model for flight simulators
[AD-P003492] 21 p3514 N84-32258
Training the multiple-aircraft combat environment
[AD-P003495] 21 p3514 N84-32261
F-15 Limited Field of View visual system training effectiveness evaluation
[AD-A144309] 24 p3938 N84-34925

PILOTED CENTRIFUGES

U HUMAN CENTRIFUGES

PILOTLESS AIRCRAFT

Controls, Displays, and Information Transfer for General Aviation IFR Operations
[NASA-CP-2279] 03 p0311 N84-12029

PILOTS (PERSONNEL)

NT AIRCRAFT PILOTS
Proposed revisions to MIL-F-8785C related to flight safety of augmented aircraft. Volume 3. Appendix G. Pilot comments
[AD-A131416] 02 p0176 N84-11155
A summary and integration of research concerning single pilot IFR operational problems 03 p0312 N84-12034
Pilot controls and SPIRF flight
03 p0312 N84-12038
Pilot human factors in stall/spin accidents of supersonic fighter aircraft 06 p0779 N84-15102
Detection of latent atherosclerotic stenosing lesions to great vessels of the head in flight personnel
07 p1046 N84-16787
The 1980 and 1981 accident experience of civil airmen with selected visual pathology
[AD-A134898] 08 p1101 N84-17158
Interactive voice technology: Variations in the vocal utterances of speakers performing a stress-inducing task
[AD-A135932] 09 p1302 N84-18514
Pilot behavior models for LSO (Landing Signal Officer) training systems
[AD-A135823] 10 p1552 N84-20169
Quantification of subjective ratings through conjoint measurement analysis
[AD-A138810] 13 p1930 N84-22554
Biochemical measurements of the human stress response
[AD-A139381] 14 p2184 N84-24089
Health risks associated with aircraft model type among US Navy pilots
[AD-P003270] 18 p2907 N84-28435
A review of US Army aircrew-aircraft integration research programs
[NASA-TM-85947] 19 p2968 N84-28809
Pilot jet lag experiments described
22 p3629 N84-32997
Medical-psychological problems of the occupational reliability of flight personnel 23 p3807 N84-34136

PINCH EFFECT

NT PLASMA PINCH
NT REVERSE FIELD PINCH
NT THETA PINCH
NT ZETA PINCH
Rotating and propagating LIB stabilized by self-induced magnetic field
[IPPJ-640] 03 p0444 N84-12916
Design of a high-brightness, low-jitter, short-pulse laser for plasma diagnostics
[DE84-000129] 04 p0541 N84-13564
Comparisons of hydrodynamic beam models with kinetic treatments
[DE84-003242] 06 p1233 N84-18057
The significance of the pinch phase for the production of neutrons in a plasma focus
[IPF-83-2] 14 p2231 N84-24379

PINHOLE CAMERAS

Pinhole/coronograph pointing control system integration and noise reduction analysis
[NASA-CR-171152] 23 p3750 N84-33773

PINS

Endurance of steel lugs with clearance-fit pins (tensile mean stress)
[ESDU-82022] 07 p1011 N84-16559
Stress concentration factors. Axially loaded lugs with clearance-fit pins
[ESDU-81006] 07 p1014 N84-16578
Water-vapor effects on friction of magnetic tape in contact with nickel-zinc ferrite
[NASA-TP-2279] 09 p1286 N84-18399
Contact stresses in pin-loaded orthotropic plates
[NASA-CR-173475] 12 p1825 N84-21900
Design of mechanical joints in composites
17 p2674 N84-27038
The stress distribution in pin-loaded orthotropic plates
17 p2678 N84-27059
Effects of water-vapor on friction and deformation of polymeric magnetic media in contact with a ceramic oxide
[NASA-TM-83727] 20 p3161 N84-30072
Pin rooted blade biaxial air seal
[AD-D011086] 22 p3537 N84-32391

PIONEER F SPACE PROBE

U PIONEER 10 SPACE PROBE

PIONEER G SPACE PROBE

U PIONEER 11 SPACE PROBE

PIONEER SATURN SPACECRAFT

U PIONEER 11 SPACE PROBE

PIONEER SPACE PROBES

NT PIONEER 10 SPACE PROBE
NT PIONEER 11 SPACE PROBE
Log N-log S in inconclusive
[NASA-CR-173153] 07 p1093 N84-17111
Venus: Global radar properties in a geological context
11 p1754 N84-21453

PIONEER VENUS SPACECRAFT

Impact ionization effects on Pioneer Venus Orbiter
06 p1118 N84-17270
Ongoing data reduction, theoretical studies and supporting research in magnetospheric physics
[NASA-CR-173419] 13 p2010 N84-23039
Characterization of surficial geologic units on Venus from Pioneer Venus radar data: A progress report
13 p2076 N84-23454
Telecommunications and data acquisition support for the Pioneer Venus Project: Pioneers 12 and 13, prelaunch through March 1984
[NASA-CR-173893] 22 p3539 N84-32403

PIONEER 12 SPACE PROBE

U PIONEER VENUS SPACECRAFT

PIONEER 10 SPACE PROBE

Spatial dependences in the distant solar wind: Pioneers 10 and 11 03 p0472 N84-13107

PIONEER 11 SPACE PROBE

Spatial dependences in the distant solar wind: Pioneers 10 and 11 03 p0472 N84-13107
The puzzling dynamics of Saturn's F-ring
19 p3119 N84-29827
Geometrical relationships of Pioneer 11 to Uranus and Voyager 2 in 1985-86
[NASA-CR-173675] 22 p3539 N84-32406

PIONS
Experiments on the nuclear interactions of pions
[DE83-016285] 03 p0434 N84-12844
The 3-body forces, relativistic effects, isobars, and pions in nuclear systems
[DE84-000163] 04 p0597 N84-13938
Do pions condense in neutron-star matter?
[DE84-000463] 04 p0620 N84-14093
Pion elastic and inelastic scattering from (40) (42) (44) (48)Ca and (54)Fe
[DE84-009060] 20 p3296 N84-30927
Intermediate-energy nuclear theory — nucleon-nucleon theory, three-dadron systems, hadron form factors, and Dirac particles
[DE84-012971] 22 p3654 N84-33161

PIPE FLOW
An experimental study of heat and momentum transfer in pipe flow of viscoelastic fluids
01 p0076 N84-10497
The performance of small jet noise silencers for industrial applications
[PB83-234047] 02 p0230 N84-11507
Turbulent tube-flow heat transfer coefficients in the presence of flow imbalance in the tubes of a parallel array 03 p0374 N84-12437
Value of flow calibration for decision making in infiltration/inflow studies
[PB83-259739] 05 p0682 N84-14483
Prediction of floating solid velocities in unsteady partially filled pipe flow
[PB83-259598] 05 p0682 N84-14484
Finite element analysis of fluid-filled elastic piping systems 06 p0859 N84-15600
Heat transfer for turbulent flow of helium or hydrogen in a tube at high temperatures: Evaluation with the method of Petukhov
[KFK-3583] 07 p1005 N84-16518
Finite analytic numerical solutions of laminar and turbulent convective heat transfer for pipe flow past a cavity 08 p1154 N84-17515
Unsteady turbulent boundary layers
[AD-A137853] 11 p1652 N84-20787
A study of the coherent structures in the viscous wall region of a turbulent flow
[AD-A137875] 11 p1652 N84-20788
TOPAZ: A computer code for modeling heat transfer and fluid flow in arbitrary networks of pipes, flow branches, and vessels
[DE84-006275] 11 p1709 N84-21142
Study of unsteady turbulent boundary layers
[AD-A138156] 12 p1816 N84-21837
Instability of the flow of two immiscible liquids with different viscosities in a pipe
[AD-P002935] 14 p2196 N84-24175
Entrainment and deposition of drops in a dispersed 2-phase flow: An experimental investigation
[CFD/83/6] 16 p2838 N84-28013
Thermal laminarization of a stratified pipe flow
[DE84-006407] 20 p3185 N84-30236
Experiments on tubes conveying fluid
[DE84-004031] 20 p3185 N84-30237
Numerical treatment of pipe boundary conditions in two-phase flow
[DE84-006553] 20 p3185 N84-30238
Active ultrasonic cross-correlation flowmeters for mixed-phase pipe flows
[DE84-006449] 20 p3189 N84-30260
A space-marching method for the Navier-Stokes equations for internal flows 21 p3397 N84-31550
Thermal oscillations downstream of an elbow in stratified pipe flow
[DE84-006550] 21 p3401 N84-31579
Ammonia boiling in long tubes. Heat transfer and charge loss in vertical and horizontal tubes
[CETIM-14-C-011] 21 p3403 N84-31588
Developing turbulent flow in strongly curved passages of square and circular cross-section
[AD-A143279] 22 p3593 N84-32755
Effects of system and geometrical parameters on the flow of Class-B solids in overflow standpipes
[DE84-013948] 22 p3594 N84-32762

PIPELINES
NT SEWERS
Medium- and high-pressure sonic leak pinpointing
[PB83-228361] 01 p0086 N84-10557
Feasibility tests of pipeline pigs for cryogenic pipelines
[DE83-015494] 02 p0206 N84-11343
Scheduling supercomputers
[AD-A132512] 04 p0579 N84-13822
Dynamic behavior of underground structures
10 p1507 N84-19860
Development of concepts for corrosion assessment and evaluation of underground pipelines
[AD-A140633] 17 p2623 N84-26788
Parallelism in manipulator dynamics. Revision
[AD-A142515] 20 p3196 N84-30299
Reliability analysis for stiff versus flexible piping
[DE84-006325] 20 p3203 N84-30344
Summary status of advanced water electrolysis and hydrogen storage/transport research and development
[DE84-012908] 22 p3547 N84-32456
Eddy current testing of steam generator tubes
[BLL-RISLEY-TRANS-4584-(9091.9)] 22 p3606 N84-32848
Improving the design of multilayer pipes
24 p3876 N84-34564

PIPELINING (COMPUTERS)
VLSI (Very Large Scale Integrated) design of a 16 bit very fast pipelined carry look ahead adder
[AD-A136356] 09 p1306 N84-18540
Multi-computer parallel arrays, pipeline arrays and pyramids 09 p1400 N84-19147
A systolic VLSI design of a pipeline Reed-Solomon decoder 10 p1474 N84-19631
Comparison of processor arrays with pipeline processors for image processing
[NLR-MP-83011-U] 13 p2030 N84-23165
On vector calculation of mechanic flow computer programs 16 p2549 N84-26358
Parallel processors: Aspects of interaction between calculator architecture and algorithms
16 p2549 N84-26360
High-speed recursive digital filter realization
[AD-A140904] 17 p2759 N84-27517
On the design of a Pipelined/Systolic finite element system
[AD-A142558] 20 p3281 N84-30830
Real-time CGSI (Computer Generated Synthesized Imagery)-single pipeline processor
[AD-P003480] 21 p3512 N84-32247
Programmable arithmetic logic unit
[AD-D011128] 22 p3637 N84-33055
Array processor utilization in the computation of real-time images
[ARL-SYS-TM-73] 22 p3637 N84-33058
The use of pipeline techniques in the architecture of digital processors employed in real time applications
[INPE-2992-TDL/153] 22 p3639 N84-33075
Dynamic programming and transitive closure on linear pipelines
[AD-A143527] 22 p3640 N84-33079
Pipelined digital SAR azimuth correlator using hybrid FFT-transversal filter
[NASA-CASE-NPO-15519-1] 24 p3893 N84-34851

PIPER AIRCRAFT
Light aircraft sound transmission study
[NASA-CR-174540] 01 p0139 N84-10910
Safety recommendation(s) A-84-10 and -11
16 p2444 N84-25676
Aircraft accident report: Las Vegas Airlines, Flight 88, Piper PA-31-350, Grand Canyon, Arizona, August 17, 1983
[PB84-910405] 19 p2960 N84-28760
Prediction of light aircraft interior sound pressure level using the room equation
[NASA-CR-173840] 21 p3490 N84-32117

PIPES (TUBES)
Analysis and summary of OTEC (Ocean Thermal Energy Conversion) cold water pipe costs
[PB83-221002] 01 p0060 N84-10392
Ocean thermal energy conversion cold water pipe at-sea test program
[PB83-221119] 01 p0060 N84-10393
OTEC (Ocean Thermal Energy Conversion) cold water pipe at-sea test program. Volume 2.F.: Environmental design criteria
[PB83-221127] 01 p0060 N84-10394
Environmental design criteria for the 1/3 scale OTEC cold water pipe at-sea test site off Honolulu, Hawaii
[PB83-221143] 01 p0060 N84-10395
Analysis of a solar heat pipe heating and absorption cooling system 01 p0076 N84-10496
Nonlinear stability control
[DE83-014341] 01 p0082 N84-10532
Medium- and high-pressure sonic leak pinpointing
[PB83-228361] 01 p0086 N84-10557
Probabilistic assessment of weld quality in steel piping under seismic conditions
[DE83-012053] 01 p0091 N84-10591
Improvement of reliability of welding by in-process sensing and control (development of smart welding machines for girth welding of pipes)
[DE83-017012] 01 p0091 N84-10595
Environmental crack-growth-measurement techniques
[DE83-900734] 01 p0097 N84-10630
Corrosion of underground pipe
[PB83-243923] 02 p0198 N84-11289
Structure and properties of polyethylene
[PB83-243931] 02 p0202 N84-11316
Testing of epoxy-phenolic coating for lining carbon steel pipe
[DE84-000073] 04 p0507 N84-13322
Condensation heat transfer of steam on a single horizontal tube
[AD-A132245] 04 p0533 N84-13506
Welding deformations and residual stresses due to circumferential welding of cylindrical shells and hemispherical end plates
[DRIC-T-6968] 04 p0547 N84-13602
Inelastic analysis of piping and tubular structures
[PB83-249987] 04 p0550 N84-13623
The effect of condensate inundation on steam condensation heat transfer to wire-wrapped tubing
[AD-A132175] 04 p0615 N84-14060
West Europe report: Science and technology, no. 169
[JPRS-84936] 05 p0634 N84-14169
Biaxial fatigue of graphite/epoxy + or - 45 sub s tubes 06 p0799 N84-15210
Evaluation of CO2 and CO dopants in hydrogen to reduce hydrogen permeation in the Stirling engine heater head tube alloy CG-27
[NASA-TM-83535] 06 p0805 N84-15246
Plastic flows of tubes and blocks
06 p0833 N84-15421
The core region of channel flows
06 p0837 N84-15452
Fracture resistance of hardened and tempered pipes of 16GFR steel
[BLL-M-35268-(5828.4)] 06 p0857 N84-15584
Plane strain fracture toughness of polyethylene pipe materials
[MIT-RR-R82-2] 06 p0857 N84-15586
Finite element analysis of fluid-filled elastic piping systems 06 p0859 N84-15600
Initiation and propagation of stress-corrosion cracking of Alloy 600 in high-temperature water — Inconel tubing
[DE84-000623] 07 p0975 N84-16316
Dynamics of tubes in fluid with tube-baffle interaction — heat exchanger tubes
[DE84-001452] 07 p1003 N84-16508
Experimental investigation of the turbulent flow in smooth and longitudinal grooved tubes
[MPIS-3/1983] 07 p1004 N84-16510
Flexibilities of and stresses in thin unpressurised pipe bends with flanged ends under in-plane bending: Influence of bend angle
[ESDU-81041] 07 p1015 N84-16581
Computer programs for seismic analysis of piping systems with special reference to the power piping code B31.1 — pressure vessels
[CRIF-MT-158] 07 p1017 N84-16601
Tie molecules in polyethylene
[PB84-101435] 08 p1139 N84-17405
Quality assurance of heat-fused polyethylene plastic pipe joints, phase 2
[PB84-104942] 08 p1168 N84-17608
Some topics in finite elasticity
08 p1169 N84-17614
Acoustic imaging of vapor bubbles through optically non-transparent media
[DE84-003961] 08 p1228 N84-18022
Basic research on macromolecular dynamics
[PB84-123536] 09 p1289 N84-18417
The mechanoluminescence of fibreglass tubes in the plane stressed state
[DRIC-T-7014] 09 p1328 N84-18673
Flat plate heat pipe collectors made by roll bonding
[BMFT-FB-T-83-202] 10 p1495 N84-19778
Experimental validation of the component synthesis method for predicting vibration of liquid-filled piping
10 p1510 N84-19882
Termination of cylindrical grooved optical cables
11 p1720 N84-21220
Measurement of stress with acoustic waves
11 p1728 N84-21273
Microstructure-property relationship for porous CaO stabilized ZrO2 support tubes 11 p1739 N84-21347
Research and development on high temperature water vapor electrolysis 11 p1739 N84-21348
The preparation of sodium beta-alumina by the isostatic pressing and zone sintering of spray dried powders
11 p1744 N84-21377
New method and equipment for high-frequency welding of pipe 12 p1786 N84-21651
Stresses round a circular hole in a uniform plate subject to hydrostatic compression, under various conditions of support, in plane stress and plane strain — buried pipes
[OUEL-1497/83] 12 p1827 N84-21910
On the measurement of structure-borne sound energy flow along pipes. Part 3: Analysis of systematic and random errors
[TPD-306.785/1] 12 p1900 N84-22377
Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] 13 p2019 N84-23095
Ceramic tube materials and processing development
[PB84-151653] 14 p2135 N84-23795

Thermal and transformation stresses in hollow tubes during the quenching process
[AD-P002976] 14 p2201 N84-24212
The measurement of acoustic emission parameters during hydraulic loading of the Novovorenezh AES reactor vessel VVER-1000
[DRIC-T-6998] 15 p2403 N84-25421
Residual stresses in cross-ply composite tubes
[NASA-CR-173540] 16 p2480 N84-25768
Crack branching, crack arrest and rapid tearing
[AD-P003112] 16 p2468 N84-25817
Second-order effects in complex rheological flows
16 p2494 N84-25999
Improvement of heat treatment of tubes of steel 15Kh5M
[BLL-M-35545-(5828.4)] 17 p2621 N84-26774
Surface embrittlement of polyethylene pipe grade resins
[PB84-161973] 17 p2627 N84-26811
A comparison of the tube-side performance of enhanced heat transfer tubing for Naval condensers
[AD-A126936] 17 p2667 N84-27008
Plastic behavior of 304 stainless steel under plastic-strain controlled loading conditions
17 p2677 N84-27051
A study of the stiffened tubular joints using finite element method
17 p2679 N84-27061
A versatile structure for GAS payloads
18 p2801 N84-27775
Entrainment and deposition of drops in a dispersed 2-phase flow: An experimental investigation
[CFD/83/6] 18 p2838 N84-28013
Tubing and cable cutting tool
[NASA-CASE-LAR-12786-1] 18 p2848 N84-28085
Experimental stress analysis and fatigue tests of five 12-in NPS ANSI Standard B169 tees
[DE84-010280] 18 p2853 N84-28117
Principles and prospects for micro heat pipes
[DE84-006035] 19 p3020 N84-29149
J-integral tearing instability analysis for 8-inch diameter ASTM A106 steel pipe
[AD-A142589] 20 p3153 N84-30023
Experiments on tubes conveying fluid
[DE84-004031] 20 p3185 N84-30237
Stability of tubes conveying fluid
[DE84-010573] 20 p3185 N84-30240
Void-particulate director
[DE84-011300] 20 p3190 N84-30262
Reliability analysis for stiff versus flexible piping
[DE84-006325] 20 p3203 N84-30344
Shock wave absorber having apertured plate
[DE84-011271] 20 p3203 N84-30345
Study of different welded nipples in headers
[CRIF-MT-159] 21 p3415 N84-31655
Slideline verification for multilayer pressure vessel and piping analysis including tangential analysis
[DE84-004333] 21 p3423 N84-31711
Micrometric cleaning of steel tubes through ultrasonic cavitation
[REPT-61584] 21 p3491 N84-32125
Developing turbulent flow in a 180(0) curved pipe and its downstream tangent
[DE84-013391] 22 p3595 N84-32767
Nonlinear analysis of a bolted marine riser connector using NASTRAN substructuring
22 p3610 N84-32875
Construction and evaluation of a flow test stand
[PB84-201581] 22 p3615 N84-32906
PVC (polyvinylchloride) pipe reliability and failure modes
[DE84-013862] 23 p3725 N84-33604
Effect of Weissenberg number on turbulent heat transfer and friction factor of viscoelastic fluids
23 p3745 N84-33743
The effect of thermomechanical coupling in the case of a thick-wall sphere and tube subjected to internal pressure
[ISSN-0208-5658] 23 p3759 N84-33823
Improving the design of multilayer pipes
24 p3876 N84-34564
Small orifice laser cutting machine viewed
24 p3891 N84-34642
Rising bubbles in a two-dimensional tube with surface tension
[AD-A144693] 24 p3953 N84-35031

PISTON ENGINES
NT DIESEL ENGINES
Free-piston Stirling engine experimental program: Part 1. Baseline test summary
[DE84-003650] 07 p1012 N84-16567
Overview of NASA Lewis Research Center free-piston Stirling engine activities
[NASA-TM-83649] 12 p1921 N84-22512
Stirling module development overview
18 p2873 N84-28240
Parabolic dish Stirling module
18 p2873 N84-28241
United Stirling's solar engine development: The background for the Vanguard engine
18 p2873 N84-28242
Testing of the United Stirling 4-95 solar Stirling engine on test bed concentrator 18 p2873 N84-28243
Vanguard concentration 18 p2873 N84-28244
Creep-rupture behavior of candidate Stirling engine iron superalloys in high-pressure hydrogen. Volume 2: Hydrogen creep-rupture behavior
[NASA-CR-174705] 19 p2992 N84-28961
Engineering research on positive displacement gas expanders, phase 1
[DE84-008977] 20 p3196 N84-30310
Nonlinear analysis of Stirling engine thermodynamics
[DE84-013493] 21 p3507 N84-32219

PISTONS
Development of a solar-driven free-piston heat pump
[DE83-015024] 02 p0220 N84-11440
A new operation method for a large-scale shock tunnel
[NAL-TR-765] 04 p0487 N84-13200
Split-Stirling, linear-resonant, cryogenic refrigerators for detector cooling 06 p0819 N84-15342
Fabrication and coating of selected diesel engine components for combustion durability testing
[DE84-002188] 09 p1326 N84-18662
Lubrication and support of a single piston ring
[DE84-004358] 10 p1502 N84-19818
Formation of a shock wave in a dusty gas by a moving piston
[UTIAS-275] 14 p2145 N84-23853
Hydraulic cylinder seals in arctic conditions
[VTT-207] 14 p2155 N84-23912
Comparison of free-piston Stirling engine model predictions with RE1000 engine test data
[NASA-TM-83650] 14 p2249 N84-24509
Reciprocating magnetic refrigerator employing tandem porous matrices within a reciprocating displacer
[NASA-CASE-NPO-16257-1] 15 p2305 N84-24830
Gas-fired duplex free-piston Stirling refrigerator
[PB84-171537] 17 p2639 N84-26684
Centrifugal-reciprocating compressor
[NASA-CASE-NPO-14597-2] 18 p2848 N84-28081
Hybrid seal
[AD-D011083] 22 p3605 N84-32835

PITCH
Error margins by segmentation of speech signals with autocorrelation procedures for linear prediction coding systems
[FI-13-TBR-17] 16 p2481 N84-25911

PITCH (INCLINATION)
Computational analyses of unsteady flow past airfoils with flapping and/or pitching motion
01 p0002 N84-10013
Low aspect ratio wing/body vortex interaction at large angles of pitch and yaw 02 p0173 N84-11140
A helicopter flight investigation of roll-control sensitivity, damping and cross coupling in a low altitude lateral maneuvering task
[NASA-TM-84376] 07 p0959 N84-16216
Wind tunnel tests on a nonaxisymmetric projectile shape at Mach numbers 2.5 to 6.0
[AD-A135784] 09 p1253 N84-18177
Body-freedom flutter of a 1/2-scale forward-swept-wing model, an experimental and analytical study
[NASA-CR-172324] 12 p1771 N84-21553
Data acquisition and aerodynamic coefficient estimation at high angles of attack 13 p1927 N84-22542
A new satellite instrument for yaw and pitch measurements
[AD-A138729] 13 p1937 N84-22599
Gravito-magnetic origin of the temperature of a stellar corona 15 p2421 N84-25545
Evolution of a heave control system for an amphibious hovercraft
[CAR-8401] 16 p2475 N84-25864
Effect of certain geometrical parameters on metrological characteristics of multichamber black body
17 p2637 N84-26871
Passive yaw damping of a teetered rotor versus delta-3 angle values
[DE84-009758] 20 p3236 N84-30545
Calculation of the pressure distribution on a pitching airfoil with application to the Darrieus rotor
[DE84-013571] 22 p3532 N84-32363
Stochastic control of pitch motion of satellites using stabilizing flaps
[INPE-3235-PRE/584] 24 p3859 N84-34458

PITCH (MATERIAL)
Electrographite electrodes from coal tar pitch super needle coke for electric steel manufacturing
[BMFT-FB-T-83-067] 02 p0197 N84-11281

PITCH ANGLES
U PITCH (INCLINATION)

PITCH ATTITUDE CONTROL
U LONGITUDINAL CONTROL

PITCHING MOMENTS
An investigation of airfoil dynamic stall with large amplitude motions
[AD-A134230] 07 p0948 N84-16150
Airfoil interaction with impinging vortex
[NASA-TP-2273] 09 p1250 N84-18159

PITOT TUBES
Wake visualization
[BU-282] 15 p2255 N84-24542

PITS (EXCAVATIONS)
Use of aircraft imagery in evaluating ground stability at open-pit uranium mines in Gas Hills, Wyoming
[DE83-903011] 03 p0401 N84-12621

PITTING
The detection of pitting corrosion in stainless steel using double-layer activation
[AERE-R-9751] 01 p0047 N84-10304
The localized corrosion of aluminum alloys: A review
[AD-A132582] 04 p0498 N84-13269
Potentiostatic investigation of the kinetics of the breakdown of the passivity of aluminium in aqueous medium
[BLL-OA-TRANS-3066-(6196.3)]
06 p0804 N84-15238
Pit initiation resistance of ferritic stainless steels in chloride environments from 800 to 2600C
[DE84-000355] 06 p0807 N84-15258
Evaluation of the pitting corrosion resistance of a Fe-12% Cr alloy 06 p0817 N84-15321
The effect of gas bubbles and cavity dimensions on the local electrode potential within pits, crevices and cracks
[AD-A134729] 08 p1132 N84-17364
Corrosion behavior of Ni(+)-ion irradiated NiTi alloys
[DE84-003891] 09 p1285 N84-18392
A new electrochemical technique for evaluation of susceptibility to pitting corrosion
[AERE-M-3372] 18 p2817 N84-27883
Potential-determining reactions during pitting corrosion of aluminum
[DE84-007695] 20 p3155 N84-30031

PITUITARY GLAND
Adrenal-hypothalamus-pituitary system reactions in rats cooled in a hypoxic-hypercapnic gas atmosphere
20 p3254 N84-30655

PITUITARY HORMONES
NT ADRENOCORTICOTROPIN (ACTH)

PIVOTS
Self-locking telescoping manipulator arm
[NASA-CASE-MFS-25906-1] 02 p0269 N84-11761
Unidirectional flexural pivot
[NASA-CASE-GSC-12622-1] 03 p0383 N84-12492
Pivotal mono wing cruise missile with wing deployment and fastener mechanism
[AD-D011192] 24 p3853 N84-34436

PLAGES (FACULAE)
U FACULAE

PLAINS
NT COASTAL PLAINS
NT FLOOD PLAINS

PLAN POSITION INDICATORS
Investigation of the positioning system at Recal-Decca Survey Ltd. (RDS), London
[FOA-C-20476-D8(E2,E3)] 07 p0950 N84-16162

PLANAR STRUCTURES
NOSTRUM: A finite element program for nonlinear structural mechanics
[TR-18] 04 p0587 N84-13881
Multifrequency synthetic aperture radar antenna comparison study — for remote sensing
[NASA-CR-171736] 08 p1143 N84-17434
Experimental study of flow reattachment in a single-sided sudden expansion
[NASA-CR-3765] 09 p1312 N84-18571
An experimental investigation of the impingement of a planar shock wave on an axisymmetric body at Mach 3
[NASA-TM-84410] 09 p1312 N84-18573
Research and development on high temperature water vapor electrolysis 11 p1739 N84-21348
Scattering of an electromagnetic plane wave from a perfectly electrically conducting half-plane in the proximity of planar media discontinuities
[AD-A138968] 13 p1983 N84-22876
Analysis of transmission lines on semiconductor substrate
[AD-A140711] 17 p2663 N84-26987
Qualitative study of the planar isosceles three-body problem
[PREPRINT-35] 20 p3133 N84-29696
Multi-100kW: Planar low cost solar array development
[NASA-CR-171119] 20 p3234 N84-30529
Analysis of directivity as a function of scan angle for planar arrays of radiating slots
[AD-P003503] 21 p3383 N84-31471

Conformal array analysis
[AD-P003504] 21 p3384 N84-31472
Phase error effects on the radiation patterns of space-fed planar phased arrays
[AD-P003505] 21 p3384 N84-31473
Solution of some additional electromagnetic problems by the discrete convolution method
[AD-A143056] 21 p3387 N84-31493
Electroding of multi-layered epitaxial structures
[AD-D011137] 22 p3661 N84-33209

PLANE STRAIN
Elasto-plastic analysis of plane stress problems using uniaxial symmetric Tresca yield surface and kinematic hardening 01 p0093 N84-10606
MAZE: An input generator for DYNA2D and NIKE2D
[DE83-016415] 02 p0274 N84-11795
The dynamic in plane response at the centre of a rotating elastic disc due to oscillatory in plane forces at the rim
[ISVR-TR-121] 04 p0548 N84-13613
The plane stress/strain analysis of non-homogeneous continua by the boundary integral equation method
[TR-821S] 04 p0587 N84-13880
Acoustoelasticity: Scanning with shear waves 05 p0695 N84-14560
Finite element and boundary element analysis of large strain large displacement problems in elastoplasticity 06 p0857 N84-15580
Correlation of fracture toughness with tensile properties for irradiated 20% cold-worked 316 stainless steel
[DE84-003954] 08 p1135 N84-17379
Stress-state index and Nadai-Lode parameter
[BLL-M-35433-(5828.4)] 06 p1169 N84-17612
Some topics in finite elasticity 06 p1169 N84-17614
The mechanoluminescence of fibreglass tubes in the plane stressed state
[DRIC-T-7014] 09 p1328 N84-18673
Stresses round a circular hole in a uniform plate subject to hydrostatic compression, under various conditions of support, in plane stress and plane strain — buried pipes
[OUEL-1497/83] 12 p1827 N84-21910
Draft standard method of test for plane-strain stress-corrosion-cracking resistance of metallic materials in marine environments
[AD-A139752] 15 p2297 N84-24785
Dynamic kinking and bifurcation of cracks in plane strain
[AD-P003113] 16 p2468 N84-25818
Matrix cracking in composites and its effects on damaged ply constitutive behavior 17 p2677 N84-27052
Role of texture and structural damage in plane strain deformation processing 21 p3416 N84-31664

PLANE WAVES
Random-choice solutions for weak spherical shock-wave transitions of n-waves in air with vibrational excitation
[UTIAS-253] 01 p0077 N84-10502
Effects of dissipation in one-dimensional inverse problems
[DE83-017692] 03 p0362 N84-12353
The relation between power and energy in the shock initiation of detonations. 1: Basic theoretical considerations and the effects of geometry
[AD-A133468] 06 p0844 N84-15505
The numerical synthesis and inversion of acoustic fields using the Hankel transform with application to the estimation of the plane wave reflection coefficient of the ocean bottom
[AD-A133156] 06 p0908 N84-15901
Strong motion effects due to seismic waves in dipping layers
[PB84-127919] 06 p1189 N84-17747
Transient current density waveforms on a perfectly conducting sphere
[AD-A135862] 09 p1300 N84-18500
Image-plane processing for improved computer vision 12 p1804 N84-22404
Scattering of an electromagnetic plane wave from a perfectly electrically conducting half-plane in the proximity of planar media discontinuities
[AD-A138966] 13 p1983 N84-22876
Diffraction of a line sink field
[FOA-C-30353-E] 15 p2320 N84-24931
Vortical-potential flow of ideal fluid along plane with depression 17 p2646 N84-26927
Interfering elastic wave components 18 p2862 N84-28170
Inversion of the acoustic plane wave reflection response of a layered ocean bottom
[AD-A132794] 18 p2928 N84-28570
Computer programs for electromagnetic coupling between a conducting body and an aperture in an infinite conducting plane
[AD-A142975] 21 p3386 N84-31491
Acoustic propagation in a thermally stratified atmosphere
[NASA-CR-173863] 21 p3491 N84-32121
Theory of vorticity generation by shock wave and flame interactions
[AD-A144432] 24 p3880 N84-34582

PLANET EPHEMERIDES
Planetary geometry handbook: Venus positional data, 1988 - 2020, volume 2
[NASA-CR-173192] 07 p1091 N84-17096
Planetary geometry handbook: Mars positional data, 1990 - 2020, volume 3
[NASA-CR-173193] 07 p1091 N84-17097
Planetary geometry handbook: Jupiter positional data, 1985 - 2020, volume 4
[NASA-CR-173194] 07 p1091 N84-17098
Planetary geometry handbook: Saturn positional data, 1985 - 2020, volume 5
[NASA-CR-173195] 07 p1091 N84-17099

PLANET ORIGINS
U PLANETARY EVOLUTION

PLANETARY ATMOSPHERES
NT JUPITER ATMOSPHERE
NT MARS ATMOSPHERE
NT SATURN ATMOSPHERE
NT VENUS ATMOSPHERE
Activities report of the Laboratory of Environmental Physics and Chemistry 03 p0450 N84-12963
Baroclinic waves in the atmosphere of Mars: Observations, linear instability, and finite-amplitude evolution 04 p0621 N84-14094
Optimum aerodynamic maneuvers of orbiting vehicles 05 p0629 N84-14133
Transport processes in planetary atmospheres 06 p0939 N84-16104
Submillimeter astronomy at the NASA/University of Hawaii 3-meter infrared telescope facility
[NASA-CR-173269] 07 p1089 N84-17083
An estimation method of vertical diffusion parameters in the mesoscale range
[AD-A136498] 09 p1345 N84-18787
Outer satellite atmospheres: Their extended nature and planetary interactions
[NASA-CR-173395] 12 p1922 N84-22524
Analysis of Voyager observations of ion and electron phase space densities in the magnetospheres of Jupiter and Saturn 16 p2580 N84-26548
Temporal albedo variations in Saturn's atmosphere 17 p2776 N84-27627

PLANETARY BOUNDARY LAYER
Case studies using GOES infrared data and a planetary boundary layer model to infer regional scale variations in soil moisture
[NASA-CR-173250] 07 p1022 N84-16631
Problems with the process partitioning theory of stratocumulus entrainment 12 p1857 N84-22099
Further analysis of plasma bursts in high-latitude boundary layer of earth 19 p2973 N84-28847
Dynamical simulation of cloudy boundary layer flow during cold air outbreaks 22 p3624 N84-32964

PLANETARY COMPOSITION
High pressure cosmochemistry applied to major planetary interiors: Experimental studies — phase diagram for the ammonia water system
[NASA-CR-173278] 08 p1245 N84-18138

PLANETARY CORES
NT EARTH CORE
High pressure cosmochemistry applied to major planetary interiors: Experimental studies — phase diagram for the ammonia water system
[NASA-CR-173278] 08 p1245 N84-18138

PLANETARY CRATERS
NT MARS CRATERS
The planet crossing asteroid survey: Progress in the analysis of populations and terrestrial-planet cratering rates 13 p2075 N84-23449
Mercury: New identification of ancient multi-ring basins and implications for geologic evolution 13 p2077 N84-23463
Ring spacing of Mercurian multi-ring basins and basin ring formation 13 p2078 N84-23464
Morphology of buried craters: Lava thickness estimates by simulated flooding 13 p2079 N84-23471
Fluvial erosion of impact craters: Earth and Mars 13 p2083 N84-23494
Relationships and tectonics of the Jg-7 quadrangle of Ganymede 13 p2091 N84-23542
Spatial distribution of craters on the Moon and Callisto 15 p2426 N84-25574
A geographic comparison of selected large-scale planetary surface features
[NASA-TM-86147] 22 p3679 N84-33320
Meteorite bombardment and dating of planetary surfaces
[NASA-TM-77558] 24 p3991 N84-35260

PLANETARY ENTRY
U ATMOSPHERIC ENTRY

PLANETARY ENVIRONMENTS
NT JUPITER ATMOSPHERE
NT MARS ATMOSPHERE
NT MARS ENVIRONMENT
NT PLANETARY ATMOSPHERES
NT SATURN ATMOSPHERE
NT VENUS ATMOSPHERE
Aerospace bibliography, seventh edition
[NASA-TM-85436] 09 p1399 N84-19136
Venus analogues on the Earth's ocean floor(?): Volcanic terrains seen by SeaMARC 2 side scan sonar 11 p1755 N84-21456

PLANETARY EVOLUTION
Origin and evolution of the Saturn system
[NASA-TM-85847] 04 p0621 N84-14096
Some issues related to evolution of planetary atmospheres 06 p0939 N84-16103
The magnetic state of the Earth at epoch 1885.0
[NASA-TM-77342] 09 p1343 N84-18774
Ion microprobe zircon geochronology of the Ulvak Gneisses: Implications for the evolution of early terrestrial crust in the North Atlantic Craton 11 p1678 N84-20951
Average sedimentary rock rare Earth element patterns and crustal evolution: Some observations and implications from the 3800 Ma ISUA supracrustal belt, West Greenland 11 p1678 N84-20953
Geophysical consequences of phanerozoic and Archean crustal evolution: Evidence from crustal cross-sections 11 p1679 N84-20955
New models for landform evolution on Io 13 p2074 N84-23443
Evolution of the Uranus-Neptune planetesimal swarm: Consequences for the Earth 13 p2074 N84-23445
Mercury: New identification of ancient multi-ring basins and implications for geologic evolution 13 p2077 N84-23463
Does saturation cratering exist in the solar system? 13 p2078 N84-23467
Multiprocess evolution of landforms in the Kharga Region, Egypt: Applications to Mars 13 p2086 N84-23511
Two types of continental breakup 18 p2863 N84-28178
Viking: The exploration of Mars
[NASA-EP-208] 18 p2953 N84-28715
Shock vaporization and the accretion of the ice satellites of Jupiter and Saturn
[NASA-CR-173767] 19 p3122 N84-29843
On Mars 24 p3991 N84-35259

PLANETARY EXPLORATION
U SPACE EXPLORATION

PLANETARY GEOLOGY
NT MARS VOLCANOES
Remote sensing and geologic studies of the planetary crusts
[NASA-CR-173216] 07 p1091 N84-17092
Fifteenth Lunar and Planetary Science Conference. Press Abstracts
[NASA-CR-175409] 11 p1754 N84-21448
SeaMARC 2 side-scan images of submarine volcanoes: Potential analogues for Venus 11 p1754 N84-21452
Venus: Global radar properties in a geological context 11 p1754 N84-21453
Primitive meteorites: Where do they come from and how do they form? 11 p1755 N84-21458
Significant achievements in the planetary geology program
[NASA-CR-3782] 11 p1758 N84-21474
Topography on Ganymede derived from photoclinometry 13 p2074 N84-23442
Effusion rate, length, and area relationships for some lava flows on Hawaii and Mount Etna with planetary implications 13 p2080 N84-23482
Experiments on water/melt explosions, nature of products, and models of dispersal 13 p2081 N84-23483
Calderas in the solar system 13 p2081 N84-23485
Activities at the Lunar and Planetary Institute
[NASA-CR-173528] 14 p2166 N84-23974
A bibliography of planetary geology principal investigators and their associates, 1982 - 1983
[NASA-TM-86249] 19 p3121 N84-29840
Planetary tectonics 24 p3990 N84-35247
On Mars 24 p3991 N84-35259

PLANETARY GRAVITATION
Least square approximation by linear combinations of multipoles
[AD-A134069] 05 p0741 N84-14867
Oscillations of a slowly rotating weakly stratified gaseous planet 05 p0765 N84-15016
Physics of the Earth's interior 07 p1029 N84-16667

On the structure of the tidal field
07 p1030 N84-16679
Spaceborne Gravity Gradiometers
[NASA-CP-2305] 09 p1335 N84-18716
Gravimetry 10 p1519 N84-19048

PLANETARY MAGNETIC FIELDS
Saturn's outer magnetosphere
[NASA-TM-85105] 01 p0165 N84-11084
The magnetic state of the Earth (according to the magnetic maps for 1880.0 published by the German Naval Office)
[NASA-TM-77058] 07 p1033 N84-16702
The changing world of geomagnetism: A brief history relating to magnetic observatories
09 p1343 N84-18776
Magnetospheric and atmospheric physics at the University of Natal 09 p1344 N84-18778
Observations of the Earth's magnetic field from the Space Station: Measurement at high and extremely low altitude using Space Station-controlled free-flyers
[NASA-TM-86119] 16 p2521 N84-26183
The origin of magnemite on Mars
[NASA-CR-173492] 16 p2579 N84-26543
New book discusses normal geomagnetic field
16 p2859 N84-28156
Spectral approach to interpretation of electromagnetic anomalies in case of E-polarization
16 p2859 N84-28158
Separating normal and anomalous fields using measurements in limited area 16 p2859 N84-28159
Radio scintillations observed during atmospheric occultations of Voyager: Internal gravity waves at Titan and magnetic field orientations at Jupiter and Saturn
21 p3525 N84-32331
Pioneer 10 and 11 (Jupiter and Saturn) magnetometer experiment — interaction of a flowing plasma with Titan and the Jovian magnetosphere
[NASA-CR-174006] 24 p3989 N84-35241

PLANETARY MANTLES
NT EARTH MANTLE
Seismic properties of the crust and uppermost mantle of North America
[NASA-CR-175134] 06 p0877 N84-15708
New maps of Lakshmi Planum and eastern Aphrodite, Venus 13 p2077 N84-23457
Venus banded terrain: Evaluation of tectonic models for the origin of banding 13 p2077 N84-23458
Venus: The nature of the surface from Venera panoramas 13 p2077 N84-23459
Interpretation of gravitational anomalies on Mars, Venus and Earth 19 p2975 N84-28659

PLANETARY MAPPING
The magnetic state of the Earth (according to the magnetic maps for 1880.0 published by the German Naval Office)
[NASA-TM-77058] 07 p1033 N84-16702
Activities at the Lunar and Planetary Institute
[NASA-CR-173528] 14 p2166 N84-23974
Venera-15, -16 radar imagery of Venus
19 p2974 N84-28855
Processing of 'Venera-15, -16' radar mapping imagery
19 p2974 N84-28856

PLANETARY MOTION
U SOLAR ORBITS

PLANETARY NEBULAE
Part 1: Physical studies of distant comets. Part 2: Morphologies of planetary nebulae
06 p0937 N84-16091
The ionization structure of planetary nebulae. 4: NGC 6853
[NASA-CR-173240] 07 p1090 N84-17086
Spectroscopy of the 3.3 and 3.4 micron dust emission features 16 p2570 N84-26496
Near infrared observations of the visual reflection nebulae NGC 7023, NGC 2023 and NGC 2068
16 p2570 N84-26497
The 3.3 micron mapping of NGC 7027
16 p2571 N84-26499
Origins of the 3.28 micron dust emission feature
16 p2571 N84-26500
Quenched Carbonaceous Composite (QCC): A likely candidate for interstellar grains
16 p2571 N84-26501
W3 North: Far-infrared and radio molecular observations
[NASA-TM-85961] 17 p2774 N84-27615
The 3.3 micron mapping of NGC 7027
18 p2949 N84-28697
The ionization structure of planetary nebulae V NGC 3242
[NASA-CR-173914] 22 p3679 N84-33322
Spectral analysis of (very) hot stars: Methods and results 24 p3971 N84-35140
Interstellar and nebular absorption lines in planetary nebulae 24 p3973 N84-35162
Hot central stars in planetary nebulae
24 p3977 N84-35193
Mass loss from the central star of NCG 3242
24 p3977 N84-35194
A model of the planetary nebula NGC 3918 based on IUE observations 24 p3978 N84-35195
Two density components in symbiotic stars
24 p3979 N84-35208

PLANETARY ORBITS
Planetary geometry handbook: Venus positional data, 1988 - 2020, volume 2
[NASA-CR-173192] 07 p1091 N84-17096
Planetary geometry handbook: Mars positional data, 1990 - 2020, volume 3
[NASA-CR-173193] 07 p1091 N84-17097
Planetary geometry handbook: Jupiter positional data, 1985 - 2020, volume 4
[NASA-CR-173194] 07 p1091 N84-17098
Planetary geometry handbook: Saturn positional data, 1985 - 2020, volume 5
[NASA-CR-173195] 07 p1091 N84-17099
Planet-crossing asteroid survey
15 p2427 N84-25580
The interaction of large space structures with the near-Earth environment
[AD-P002115] 16 p2523 N84-26201
Why Mars? 24 p3990 N84-35249
Voyager: Perils of advanced planning, 1960 - 1967
24 p3991 N84-35252

PLANETARY RADIATION
Determination of the planetary radiation budget from TIROS-N satellites
[PB84-100916] 08 p1189 N84-17748
Polarization radiation in the planetary atmosphere delimited by a heterogeneous diffusely reflecting surface
[NASA-TM-77296] 11 p1731 N84-21292
Auroral kilometric radiation: Wave modes, harmonic and source region electron density structures
[NASA-TM-86101] 15 p2367 N84-25203

PLANETARY ROTATION
Oscillations of a slowly rotating weakly stratified gaseous planet 05 p0765 N84-15016
Viking radio science data analysis and synthesis --- rotation of Mars, solar system dynamics, and gravitational laws
[NASA-CR-173966] 23 p3843 N84-34385

PLANETARY SATELLITES
U NATURAL SATELLITES

PLANETARY SPACECRAFT
U INTERPLANETARY SPACECRAFT

PLANETARY STRUCTURE
Venus topography: Clue to hot-lithosphere tectonics?
11 p1679 N84-20958
Venus analogues on the Earth's ocean floor(?): Volcanic terrains seen by SeaMARC 2 side scan sonar
11 p1755 N84-21456
Interpretation of gravitational anomalies on Mars, Venus and Earth 19 p2975 N84-28659

PLANETARY SURFACES
NT MARS SURFACE
NT VENUS SURFACE
Morphology of buried craters: Lava thickness estimates by simulated flooding 13 p2079 N84-23471
Cratering history of the Saturnian satellites
13 p2079 N84-23473
Desert pavement study at Amboy, California
13 p2082 N84-23492
Planetary geomorphology field studies: Washington and Alaska 13 p2084 N84-23501
Mapping and geological analysis of Mercury radar data 13 p2089 N84-23532
Mercury: Topographic and geologic data from Earth-based radar observations
13 p2089 N84-23533
Interpretation of planetary stress systems: Determination of tectonic over-printing in Northwest Wyoming 13 p2090 N84-23540
A geographic comparison of selected large-scale planetary surface features
[NASA-TM-86147] 22 p3679 N84-33320
Planetary tectonics 24 p3990 N84-35247

PLANETARY TEMPERATURE
Oceanic transport 20 p3218 N84-30444

PLANETARY WAVES
The causation and variability of the northern winter quasi-stationary planetary waves
06 p0877 N84-15705
Atmospheric planetary-wave response to external forcing
[NASA-CR-175165] 08 p1186 N84-17726
Seasonal climate fluctuations as steady and periodic flow states of a barotropic model of planetary waves
10 p1542 N84-20108
On the driving of ocean currents by Rossby waves
[AD-P002659] 11 p1690 N84-21024
The growth, propagation and decay of global scale Rossby waves during FGGE 12 p1854 N84-22080
Development and preliminary tests of a new long-wave radiation parameterization 12 p1857 N84-22097
Generalized spectra of slightly nonlinear Rossby waves 17 p2698 N84-27187
Shelf waves in presence of currents and stability of boundary currents 17 p2699 N84-27193
Hamiltonian representation of equations of hydrodynamics and its use in describing wave movements in currents with shear 18 p2865 N84-28190
Quasigeostrophic movements in barotropic and baroclinic fluid 18 p2865 N84-28191
Conservation laws of wave action and potential enstrophy for Rossby waves in a stratified atmosphere
[NASA-TM-86058] 21 p3442 N84-31838
Monitoring of long waves in the eastern Equatorial pacific 1981-1983 using satellite multi-channel sea surface temperature charts
[PB84-190487] 21 p3451 N84-31900
Study of the system of middle atmosphere-ionosphere using remote-sensing data
[NASA-TM-77764] 23 p3797 N84-34074

PLANETISMALS
U PROTOPLANETS

PLANETOCENTRIC COORDINATES
Planetary geometry handbook: Venus positional data, 1988 - 2020, volume 2
[NASA-CR-173192] 07 p1091 N84-17096
Planetary geometry handbook: Mars positional data, 1990 - 2020, volume 3
[NASA-CR-173193] 07 p1091 N84-17097
Planetary geometry handbook: Jupiter positional data, 1985 - 2020, volume 4
[NASA-CR-173194] 07 p1091 N84-17098
Planetary geometry handbook: Saturn positional data, 1985 - 2020, volume 5
[NASA-CR-173195] 07 p1091 N84-17099

PLANETOLOGY
Fifteenth Lunar and Planetary Science Conference. Press Abstracts
[NASA-CR-175409] 11 p1754 N84-21448
Venus analogues on the Earth's ocean floor(?): Volcanic terrains seen by SeaMARC 2 side scan sonar
11 p1755 N84-21456
Role of theory in space science
[NASA-CR-173444] 18 p2798 N84-27757
Projection for space geodynamics, 1988-1996
20 p3222 N84-30477
Trends in Planetary Data Analysis. Executive summary of the Planetary Data Workshop
[NASA-CP-2333] 23 p3841 N84-34363

PLANETS
NT EARTH (PLANET)
NT EXTRASOLAR PLANETS
NT GAS GIANT PLANETS
NT JUPITER (PLANET)
NT MARS (PLANET)
NT MERCURY (PLANET)
NT NEPTUNE (PLANET)
NT SATURN (PLANET)
NT URANUS (PLANET)
NT URANUS RINGS
NT VENUS (PLANET)
Challenges to astronomy and astrophysics: Working documents of the Astronomy Survey Committee
[PB83-203984] 01 p0165 N84-11080
Planet-crossing asteroid survey
15 p2427 N84-25580
The Motion of Planets and Natural and Artificial Satellites, volume 2 19 p3117 N84-29806
A method for the estimation of small perturbations
19 p3118 N84-29817
Minor planet observations and a dynamical reference system 19 p3120 N84-29828
NASA-Texas Planetary Program
[NASA-CR-173798] 19 p3121 N84-29842
Planetary Data Workshop, part 1
[NASA-CP-2343-PT-1] 23 p3841 N84-34366
Planetary data definition 23 p3841 N84-34367
User requirements 23 p3841 N84-34368
Configuration and implementation
23 p3842 N84-34369
Imaging data 23 p3842 N84-34370
Non-imaging remote sensing data
23 p3842 N84-34371
In situ data 23 p3842 N84-34372
Earth-based planetary data 23 p3842 N84-34374
Laboratory 23 p3842 N84-34375
Research in particles and fields — cosmic rays, gamma rays, and cosmic plasma
[NASA-CR-173928] 23 p3845 N84-34392

PLANFORMS
NT ARROW WINGS
NT CARET WINGS
NT DELTA WINGS

NT INFINITE SPAN WINGS
NT RECTANGULAR PANELS
NT RECTANGULAR PLANFORMS
NT RECTANGULAR PLATES
NT RECTANGULAR WINGS
NT SWEPT FORWARD WINGS
NT SWEPTBACK WINGS
NT VARIABLE SWEEP WINGS
NT WING PLANFORMS
Experimental measurements of wake characteristics of low aspect-ratio delta and flapped-plate planforms
[AD-A130398] 01 p0004 N84-10026
Wind energy concentration within vortex flow fields and its utilization for the generation of energy, phase 1
[BMFT-FB-T-83-157] 05 p0700 N84-14591
Determination of optimum fin planform and airfoil section for minimizing fin hinge moment
[AD-A134523] 07 p0948 N84-16151
Wake visualization
[BU-282] 15 p2255 N84-24542

PLANIGRAPHY
U TOMOGRAPHY

PLANING
Improvement of surface planing with diamond tool 17 p2641 N84-26897

PLANKTON
Two different aspects of phytoplankton bloom seen by satellite (CZCS) in the western English Channel — coastal zone color scanner (CZCS) 03 p0399 N84-12604
Introductory studies of natural contamination and manmade pollution in Danish waters 03 p0399 N84-12608
Dissolved organic matter and lake metabolism: Biochemistry and controls of nutrient flux dynamics in lakes
[DE83-016789] 04 p0571 N84-13761
A preliminary survey of plankton and periphyton in the Turn Barge Canal and basin area of Kennedy Space Center, Florida 06 p0928 N84-16027
Biological processes in the water column of the South Atlantic Bight
[DE84-004336] 11 p1692 N84-21035
Canyon and slope processes study. Volume 1: Executive summary
[PB84-169481] 17 p2738 N84-27391
Investigating spatial distribution of phytoplankton in Lake Baykal by optical methods 19 p2976 N84-28868
Inland aquatic resources and biogeochemical cycles 20 p3217 N84-30438
Chesapeake Bay nutrient dynamics study
[PB84-190982] 20 p3229 N84-30524
Tertiary foraminifera and age of sediments, Ok Tedi-Wabag, Papua New Guinea
[BMR-BULL-216] 23 p3797 N84-34078

PLANKTON BLOOM
U PLANKTON

PLANNING
NT AIRPORT PLANNING
NT MANAGEMENT PLANNING
NT MISSION PLANNING
NT PRODUCTION PLANNING
NT PROJECT PLANNING
NT REGIONAL PLANNING
NT URBAN PLANNING
A guide for effluent radiological measurements at DOE installations
[DE83-016839] 04 p0538 N84-13542
NASA's five-year plan
[GPO-27-459] 05 p0757 N84-14964
Local automation model: Functional description
[AD-A133389] 06 p0935 N84-16077
Thermal and electric energy and desalination with a salt gradient solar pond
[DE84-900416] 08 p1181 N84-17691
Probabilistic planning and budgeting for R and D programs involving activities of high uncertainty
[DE84-002310] 08 p1238 N84-18093
The Microelectronics Center: A new force in cooperative VLSI signal processing research 09 p1403 N84-19166
VLSI signal processing: Basis for cooperation 09 p1403 N84-19168
ORNL trends and balances, 1964-1989
[DE84-006320] 11 p1746 N84-21397
A knowledge based interactive procedure for planning and decision support under uncertainty and parameter imprecision
[AD-P002890] 13 p1979 N84-22851
Air Force Systems Command research planning guide (research objectives)
[AD-A138851] 13 p2064 N84-23384
Report to Congress on the Small Business Program of the Department of Energy
[DE84-009107] 15 p2420 N84-25534
Planning of operational software implementation tool
[AD-P003595] 21 p3341 N84-31200

PLANOTRONS
NT THERMICONS
NT THYRATRONS

PLANT DESIGN
Moltencarbonate fuel cells, development status
[DE84-000612] 04 p0529 N84-13480
Design of Smith control schemes for time-delay systems based on plant step data
[RR-231] 05 p0733 N84-14812
Problem definition study on emission by-product hazards from diesel engines for confined space Army workplaces
[AD-A141377] 19 p3052 N84-29967

PLANT ROOTS
A microwave systems approach to measuring root zone soil moisture
[E84-10114] 13 p2005 N84-23007
Suppression of asymmetric acid efflux and gravitropism in maize roots treated with auxin transport inhibitors of sodium orthovanadate
[NASA-CR-173634] 17 p2740 N84-27395
Desert emergency - lack of water - how to find and collect water. Plants and human survival in the desert
[AD-A142025] 20 p3228 N84-30513

PLANT STRESS
A study of Minnesota land and water resources using remote sensing
[E84-10023] 02 p0237 N84-11558
Respiration of roots response to low O2 stress
[DE83-017495] 04 p0572 N84-13786
Mechanical regulation of plant growth and development 09 p1355 N84-18858
Increase of cold tolerance in cotton plant (Gossypium hirsutum L.) by mepiquat chloride
[E84-10088] 10 p1521 N84-19959
Reflectance measurements of cotton leaf senescence altered by mepiquat chloride
[E84-10089] 10 p1521 N84-19960
AgRISTARS: Agriculture and resources inventory surveys through aerospace remote sensing
[E84-10091] 10 p1522 N84-19962
Detection of hidden mineral deposits by airborne spectral analysis of forest canopies — Spirit Lake, Washington; Catheart Mountain, Maine; Blacktail Mountain, Montana; and Cotter Basin, Montana
[E84-10110] 12 p1830 N84-21928
The effect of point-spread function interaction with radiance from heterogeneous scenes on multitemporal signature analysis — soybean stress 20 p3211 N84-30400

PLANTS (BOTANY)
NT AQUATIC PLANTS
NT CONIFERS
NT CORN
NT GRASSES
NT LEAVES
NT LICHENS
NT SEA GRASSES
NT SORGHUM
NT TOBACCO
NT TREES (PLANTS)
Physiological and ecological characteristics of the water fern, azolla pinnata, and prospects of using it in biological life-support system for man 02 p0261 N84-11709
Evidence for a regulatory role of calcium in gravitropism 02 p0262 N84-11721
Calcium modulation of plant plasma membrane-bound ATPase activities 02 p0263 N84-11723
Role of calcium and calmodulin in plant cell regulation 02 p0263 N84-11725
Local calcium entry and the guidance of growth 02 p0263 N84-11726
Developing higher plant systems in space 02 p0263 N84-11727
Summary of study group session discussions 02 p0264 N84-11739
NASA space biology accomplishments, 1982
[NASA-TM-86244] 04 p0488 N84-13206
Birth of space plant growing
[NASA-TM-77244] 07 p1042 N84-16756
Plant waste processing on a solid substrate for a biological life-support system for man 07 p1046 N84-16786
Development of space botany experiments 09 p1264 N84-18255
Acidic deposition effects on vegetation: A review and analysis of methodology
[DE84-004014] 09 p1343 N84-18769
NASA Space Biology Program. Eighth annual symposium's program and abstracts
[NASA-CP-2299] 09 p1351 N84-18829
Amyloplast movement in living statocytes 09 p1351 N84-18830
Inhibition of gravitropism in oat coleoptiles by calcium chelation 09 p1352 N84-18831
Protein changes in leaf-sheath pulvini of barley (hordeum) induced by gravistimulation 09 p1352 N84-18832
An attempt to localize and identify the gravity sensing mechanism of plants 09 p1352 N84-18833
The role of calcium in the gravitropic response of roots 09 p1352 N84-18834
Mechanism of shoot gravitropism 09 p1352 N84-18836
Small gravitationally elicited voltage transients in pea stems 09 p1352 N84-18838
Mechanisms of graviperception and response in pea seedlings 09 p1353 N84-18839
Gravitropism in leafy dicot stems 09 p1355 N84-18857
Mechanical regulation of plant growth and development 09 p1355 N84-18858
Measurement of thigmomorphogenesis and gravitropism by non-intrusive computerized video image processing 09 p1356 N84-18859
The roles of calcium, elicitors and ethylene in thigmomorphogenesis and gravitropism 09 p1356 N84-18860
Biophysical mechanism of differential growth during gravitropism 09 p1356 N84-18861
Cells, embryos and development in space 09 p1356 N84-18862
In vitro seed to seed growth on clinostats 09 p1356 N84-18863
Importance of gravity for plant growth and behavior 09 p1356 N84-18864
FORAST: A regional scale study of forest responses to air pollutants
[DE84-003269] 11 p1675 N84-20933
An investigation of the phototropic effect on seedling orientation in a microgravity environment: A student involvement project — radish germination 18 p2800 N84-27771
The G-002 JUFO-1 payload: Its objectives and results 18 p2801 N84-27776
Preliminary guide to the onsite identification and delineation of the wetlands of Alaska
[AD-A142091] 19 p3042 N84-29299
Desert emergency - lack of water - how to find and collect water. Plants and human survival in the desert
[AD-A142025] 20 p3228 N84-30513
NASA space biology accomplishments, 1983-84
[NASA-TM-86654] 20 p3256 N84-30664
The use of aquatic plants to purify waste water in recreational waters
[REPT-226] 21 p3437 N84-31805
Remote sensing for geobotanical prospecting 22 p3613 N84-32889
Publications of the NASA space biology program for 1980 - 1984 — bibliographies
[NASA-TM-86657] 22 p3628 N84-32990
Effects of prolonged weightlessness on orchidaceae proteins 23 p3805 N84-34130

PLANTS (INDUSTRIES)
U INDUSTRIAL PLANTS

PLASMA ACCELERATION
Observational constraints on solar wind acceleration mechanisms 03 p0467 N84-13078
Role of thermal conduction in the acceleration of the solar wind 03 p0467 N84-13079
Observational evidence for solar wind acceleration at the base of coronal holes 03 p0468 N84-13082
Test bed ion engine development
[NASA-CR-174623] 11 p1624 N84-20632
Prospects of the surfatron laser plasma accelerator
[DE84-005463] 11 p1738 N84-21336
High-power RF compressor
[DE84-013118] 22 p3578 N84-32664

PLASMA ACCELERATORS
NT COAXIAL PLASMA ACCELERATORS
An investigation of accelerating mechanisms in a plasma focus relevant to interrupting switches
[AD-A133462] 06 p0920 N84-15983
Design and fabrication of a surface conversion negative ion source and an 80 keV pre-accelerator
[DE84-006753] 13 p2045 N84-23269
Publications from the Department of Plasma Physics and the Unit of Accelerator Technology: Index and abstracts, 1983
[TRITA-EPP-83-10] 17 p2766 N84-27564

PLASMA ARC SPRAYING
U ARC SPRAYING

PLASMA ARCS
U PLASMA JETS

PLASMA BUBBLES
Plasma bubble irregularity occurrence and zonal velocities under quiet and disturbed conditions, from polarimeter observations
[INPE-3023-PRE/461] 12 p1846 N84-22036

Solar cycle related range type spread F occurrence characteristics over equatorial and low latitude stations in Brazil
[INPE-3024-PRE/462] 12 p1846 N84-22037
Equatorial plasma bubble eastward velocity characteristics from scanning airglow photometer measurements over Cachoeira Paulista
[INPE-3026-PRE/464] 12 p1847 N84-22039
Introduction to the Laser-HANE experiment and summary of low-pressure interaction results
[AD-A136945] 13 p1996 N84-22952
Magnetic bubble formation produced by an expanding laser plasma
[AD-A139188] 14 p2228 N84-24359

PLASMA CHEMISTRY
Study of plasma chemistry and plasma processing
[AD-A132207] 04 p0606 N84-13997
Plasma discharge chemistry
[AD-A141033] 18 p2932 N84-28596

PLASMA CLOUDS
On the field configuration in magnetic clouds
03 p0475 N84-13125
Nonlinear theory of the E x B instability with an inhomogeneous electric field
[AD-A137132] 10 p1589 N84-20277
Outer satellite atmospheres: Their extended nature and planetary interactions
[NASA-CR-173395] 12 p1922 N84-22524
Quasi-steady state multi-plasma cloud configuration in the ionosphere
[AD-A141532] 19 p3107 N84-29739

PLASMA COMPOSITION
Plasma composition and structure characterization of an ionospheric barium cloud 05 p0640 N84-14213
A procedure for investigating the composition of the plasma arc
[BLL-M-35454-(5828.4)] 09 p1391 N84-19083
Summary of the Symposium on Atomic Collision Data for Diagnostics and Modelling of Fusion Plasma
11 p1736 N84-21328
Heat transfer, fluid flow and element vaporization in laser welding
[DE84-011783] 22 p3605 N84-32839
Numerical analysis on the ion species ratios in a steady state hydrogen plasma
[IPPJ-687] 23 p3826 N84-34269

PLASMA COMPRESSION
Experimental investigation of explosive-driven plasma-compression opening switches
[DE83-0124200] 02 p0214 N84-11399
The Z-pinch program at Imperial College
10 p1583 N84-20372
Parameters of a possible FRC adiabatic compression experiment
[DE84-007487] 14 p2230 N84-24371

PLASMA CONDUCTIVITY
Neoclassical transport associated with collisionless detrapping in a bumpy torus
[IPPJ-651] 10 p1580 N84-20350
Plasma current and conductivity effects on hose instability
[AD-A137549] 11 p1729 N84-21282
On the convective properties of the resistive hose instability in an intense relativistic electron beam
[AD-A137527] 12 p1902 N84-22366
The microstructure theory for three dimensional plasma transport
[AD-A138285] 12 p1910 N84-22441
Magnetic bubble formation produced by an expanding laser plasma
[AD-A139188] 14 p2228 N84-24359
Propagation and absorption of electromagnetic waves in fully relativistic plasmas
[DE84-013627] 22 p3660 N84-33204
Plasma conductivity experiments on pulsed high-voltage discharges by two coil RF-probe
[AD-A144595] 24 p3985 N84-35110

PLASMA CONFINEMENT
U PLASMA CONTROL

PLASMA CONTROL
Thick deposits and overlays for fusion-reactor applications
[DE83-014626] 02 p0293 N84-11919
Advanced fusion concepts project summaries, FY 1983
[DE83-013973] 02 p0296 N84-11940
Spallation and 14-MeV neutron irradiation of stabilized NbTi superconductors
[DE83-017973] 03 p0368 N84-12394
Initial assessment of the MHD stability of TMX-U
[DE83-016521] 03 p0404 N84-12646
Recent results in the Los Alamos compact torus program
[DE83-014147] 03 p0446 N84-12930
Fokker-Planck equation in mirror research
[DE83-016568] 03 p0446 N84-12932
Status of tandem-mirror confinement
[DE83-017369] 03 p0448 N84-12948
Constraints on the scale of toroidal-fusion experiments with application to the design of a helical-axis stellarator
[DE83-016812] 03 p0449 N84-12950
Thermal barriers: Their purpose and functioning
[DE83-017365] 03 p0449 N84-12954
TMX-U experimental results
[DE83-016790] 03 p0449 N84-12955
Multidipole magnetic fields for plasma confinement
[DE83-016014] 03 p0450 N84-12960
Construction and operational experience of the tandem mirror experiment-upgrade (TMX-U)
[DE83-016181] 04 p0605 N84-13995
Resonant-3-wave mode coupling in inhomogeneous plasmas: Symmetry breaking by omega meson-*
[DE84-001633] 04 p0606 N84-13999
Ambipolarity and transport with resonant ion diffusion in EBT
[DE84-000333] 04 p0606 N84-14000
CTR plasma engineering studies
[DE84-001279] 04 p0607 N84-14006
Evolution of the mirror machine
[DE83-016942] 04 p0607 N84-14009
High-density Z-pinch research
[DE83-017311] 04 p0608 N84-14013
TMX-U diagnostic system
[DE83-017834] 04 p0608 N84-14015
Hydrogen pellet injection into Alcator C
[DE83-016878] 04 p0609 N84-14018
Energetic-particle stabilization of ballooning modes in Tokamaks
[DE83-016205] 04 p0609 N84-14020
Background information and technical basis for assessment of environmental implications of magnetic fusion energy
[DE83-018300] 04 p0611 N84-14030
Steady-state hydrogen transport in solids exposed to fusion-reactor plasmas. Part 3: Applications of theory
[DE84-001846] 04 p0611 N84-14033
Plasma/neutral gas transport in divertors and limiters
[DE84-001594] 04 p0611 N84-14034
Active experiments in space — conference
[ESA-SP-195] 05 p0634 N84-14172
Plasma confinement and interaction experiments — Active Magnetospheric Particle Tracers Explorers mission 05 p0641 N84-14218
Porosity decrease in laser welds of stainless steel using plasma control
[DE84-002194] 05 p0688 N84-14521
Applications of hybrid numerical-simulation methods to magnetic-confinement systems
[DE84-001840] 05 p0750 N84-14922
On laser air breakdown, threshold power and laser generated channel length
[AD-A133211] 06 p0849 N84-15538
Beat-wave current drive in a magnetized plasma
[DE84-001556] 07 p1077 N84-17003
Magnetic mirror fusion power systems
[DE84-002799] 07 p1077 N84-17005
Research on modeling of FED/INTOR radio-frequency heating and studies of FED/INTOR impurity-control mechanisms
[DE83-016756] 08 p1233 N84-18056
Comparisons of hydrodynamic beam models with kinetic treatments
[DE84-003242] 08 p1233 N84-18057
Experimental studies on plasma confinement in Nagoya bumpy torus
[IPPJ-655] 10 p1580 N84-20355
High density Z-pinch research
10 p1582 N84-20371
Kinetic theory of gases, magneto-fluid dynamics and their application
[AD-A137082] 10 p1585 N84-20390
Plasma engineering design of a Compact Reversed-Field Pinch Reactor (CRFPR)
[DE84-004334] 10 p1586 N84-20394
Electrical design of a high current density air-core reversed-field pinch ZTP
[DE84-004321] 10 p1586 N84-20395
Poloidal field system design for the ZT-H reversed field pinch experiment
[DE84-004328] 10 p1586 N84-20396
Stable Alfven wave dynamo action in the reversed field pinch
[DE84-004986] 10 p1586 N84-20397
Reconnections in Spheromak formation and sustainment
[DE84-004157] 10 p1586 N84-20398
Conceptual design of the RFC reactor
[IPPJ-659] 11 p1733 N84-21304
Compact toroids with rotating helo-the spintor
[IPPJ-656] 11 p1734 N84-21306
Bounce resonance heating and radial transport of electrons in magnetic mirrors
[IPPJ-654] 11 p1734 N84-21309
Numerical analyses for scrape-off plasmas in FER divertor chamber 11 p1734 N84-21313
Summary of the Symposium on Atomic Collision Data for Diagnostics and Modelling of Fusion Plasma
11 p1736 N84-21328
Tandem mirror fusion research
[DE84-005133] 11 p1738 N84-21339
1 megawatt, 100 GHz gyrotron study
[DE84-006527] 12 p1814 N84-21823
Proceedings of the DOE Planning Workshop on RF Theory and Computations
[DE84-006670] 12 p1910 N84-22442
Negative ion beam requirements for compact tori
[DE84-005752] 12 p1910 N84-22447
Introduction to tandem mirror physics
[DE84-006644] 12 p1911 N84-22451
Study of generalized toroidal cusp configurations
[DE84-006662] 14 p2229 N84-24369
Translation of field-reverse configurations in the FRX C/T experiment
[DE84-007489] 14 p2230 N84-24376
Coaxial slow source: A quasi-static FRC formation concept
[DE84-007476] 14 p2230 N84-24377
Nonlinear theory of lower hybrid current drive II
[DE84-007292] 15 p2410 N84-25469
Recent progress on ATF
[DE84-007523] 15 p2411 N84-25476
Transport, stability and relaxation of a Spheromak
[DE84-007285] 15 p2412 N84-25479
Equilibrium calculations for helical axis stellarators
[DE84-010636] 18 p2933 N84-28598
Passive and active circuits for vertical plasma stabilization
[DE84-008857] 18 p2933 N84-28599
Rapidly convergent algorithms for 3-D tandem and stellarator equilibria in the paraxial approximation
[DE84-009688] 18 p2933 N84-28603
Monte Carlo studies of tandem mirror plasmas interacting with waves in the Ion Cyclotron Range of Frequencies
[DE84-008901] 18 p2934 N84-28605
Particle confinement during lower-hybrid current drive in the Versator 2 Tokamak
[DE84-008941] 19 p3106 N84-29737
NRC survey on plasma physics and fluids fusion plasma confinement and heating. Chapter 8: Inertial confinement fusion
[AD-A142302] 19 p3107 N84-29744
Role of magnetic reconnection phenomena in the reversed-field pinch
[DE84-007470] 19 p3108 N84-29748
Plasma confinement in self-consistent, one-dimensional transport equilibria in the collisionless-ion regime of EBT operation
[DE84-001861] 19 p3108 N84-29751
Recent results of studies of acceleration of compact toroids
[DE84-006330] 19 p3109 N84-29752
Internal magnetic field measurements in a translating field-reversed configuration
[DE84-010054] 20 p3284 N84-30854
Calculation of ballistic focusing of ion beams
[DE84-012870] 20 p3297 N84-30934
Semi-implicit method for three-dimensional compressible MHD simulation
[IPP-6/234] 20 p3301 N84-30961
Magnetic fusion energy plasma interactive and high heat flux components. Volume 1: Technical assessment of the critical issues and problem areas in the plasma materials interaction field
[DE84-011527] 20 p3302 N84-30969
Electron cyclotron radiation from mirror-confined plasma
[DE84-008665] 20 p3302 N84-30970
Equilibrium and stability of the Los Alamos spheromak
[DE84-010064] 20 p3303 N84-30975
Steady state compact toroidal plasma production
[DE84-011090] 20 p3303 N84-30977
Theoretical studies of Elmo Bumpy Torus (EBT)
[DE84-010814] 20 p3303 N84-30978
Plasma Fusion Center technical research programs
[DE84-007954] 20 p3304 N84-30983
Space resolved absolutely calibrated VUV spectroscopic measurements on CTX
[DE84-007490] 20 p3304 N84-30984
Confinement time and energy balance in the CTX spheromak
[DE84-007492] 20 p3304 N84-30987
Theoretical aspects of mirror fusion
[DE84-009139] 20 p3305 N84-30988

Magnetohydrodynamic equilibrium and stability of stellarators
[DE84-010731] 20 p3305 N84-30994
RF-induced stability and transport in axisymmetric tandem mirrors
[DE84-010842] 20 p3306 N84-30999
Interaction of the precessional wave with free-boundary Alfven surface waves in tandem mirrors
[DE84-012527] 20 p3307 N84-31003
High power neutral beam heating on Doublet 3
[DE84-012471] 21 p3501 N84-32186
Azimuthal electric fields and tandem ambipolarity
[DE84-010843] 21 p3501 N84-32189
Investigation of neutral beam driven impurity flow reversal as an impurity control method in future Tokamaks
[DE84-006855] 21 p3501 N84-32191
High density Z pinch as a small low-energy fusion device
[DE84-009992] 21 p3502 N84-32198
Physics issues in mirror and tandem mirror systems
[DE84-013837] 22 p3660 N84-33201
Three chamber negative ion source
[DE84-014505] 23 p3823 N84-34243
Turbulent diffusion for the radial twist map
[IPPJ-685] 23 p3826 N84-34267
Observations of ramped current operation in ZT-40M
[DE84-015076] 23 p3829 N84-34286
Plasma heating, confinement and stabilization experiments in axisymmetric mirror-cusp device
[IPPJ-690] 24 p3965 N84-35105

PLASMA COOLING
Catastrophe in plasma focus evolution
[IPPJ-686] 23 p3826 N84-34268

PLASMA CURRENTS
Fluctuations in 3 Los Alamos experiments
[DE83-014158] 01 p0151 N84-10994
Variational theory of RF-driven currents
[DE83-016745] 04 p0609 N84-14022
Dissipation of magnetic energy during disruptive current termination — disruptions in tokamak reactors
[IPPJ-844] 06 p0919 N84-15973
Computations of the current profile influence on tearing instability
[NASA-TM-77285] 06 p0920 N84-15981
An investigation of RF currents in a magnetized plasma using a slow wave structure
[AD-A135680] 09 p1385 N84-19047
Current tube description of the focus plasma
10 p1584 N84-20379
Plasma current and conductivity effects on hose instability
[AD-A137549] 11 p1729 N84-21282
Velocity shear stabilization of the current convective instability
[AD-A137963] 12 p1909 N84-22439
Three-dimensional potential structure associated with Birkeland currents
[TRITA-EPP-83-09] 12 p1912 N84-22455
Dilute plasma coupling currents to a high voltage solar array in weak magnetic fields
[NASA-TM-83687] 15 p2283 N84-24706
Start-up and quasi-stationary drive of plasma current by lower hybrid wave in the JPII T-IIU Tokamak
[IPPJ-667] 15 p2409 N84-25461
The effect of trapped electrons on the beam-induced current 2
[IPPJ-673] 19 p3106 N84-29736
Experimental study of impurity production in the Tokapole II Tokamak
[DE84-009659] 19 p3109 N84-29754
Analysis of surface currents on the CTX mesh flux conserver
[DE84-007491] 20 p3305 N84-30989
Influence of magnetic shear on the collisional current driven ion cyclotron instability
[AD-A143391] 22 p3659 N84-33191
Thermal instabilities in the edge region of reversed-field pinches
[DE84-013861] 22 p3659 N84-33196
Plasma dynamics 22 p3683 N84-33354
Observations of ramped current operation in ZT-40M
[DE84-015076] 23 p3829 N84-34286

PLASMA CYLINDERS
NT CYLINDRICAL PLASMAS
Thermal effects on surface ripple charges for waves on a plasma column
[TRITA-EPP-83-03] 02 p0297 N84-11948
Thermal characteristics of plasma reactors with cylindrical and conical multijet mixing chambers
13 p1970 N84-22788
Possibility of extending Kirchhoff's approximation to problems of wave diffraction by transparent nonhomogeneous bodies 18 p2822 N84-27920
Finite-element-analysis of fields radiated from ICRF antenna
[IPPJ-675] 20 p3301 N84-30985

PLASMA DECAY
Observations of stimulated electromagnetic emissions during ionospheric heating experiments
05 p0635 N84-14179
Laser and plasma research
[AD-A136519] 09 p1397 N84-19125
Reconnections in Spheromak formation and sustainment
[DE84-004157] 10 p1586 N84-20396
Power transfer for microwave discharges
[AD-A138868] 13 p2044 N84-23267
Kolmogorov-style argument for the decaying homogeneous MHD turbulence
[IPPJ-677] 20 p3301 N84-30983

PLASMA DENSITY
Long wavelength limit of the E X B instability
[AD-A129812] 01 p0105 N84-10881
Evidence of East-West structure in large-scale F-region plasma enhancements in the auroral zone
[AD-A131263] 01 p0106 N84-10889
Comment on the observed plasma densities in Jupiter's distant magnetotail (wake); a possible explanation
[IFSI-83-2] 03 p0465 N84-13062
Ponderomotive effects in nonneutral plasmas
[AD-A132109] 04 p0606 N84-13998
Bottomside sinusoidal waves, a new class of equatorial plasma irregularities 05 p0705 N84-14828
Interpretation of STS-3/plasma diagnostics package results in terms of large space structure plasma interactions
[NASA-CR-173266] 07 p1075 N84-16991
The IPSM coronal-sounding experiment
09 p1262 N84-18240
Phenomenology of structured plasma in the ionosphere
[AD-A136396] 09 p1345 N84-18784
Influence of a plasma during laser welding
[DE84-004414] 10 p1502 N84-19820
Buildup and sustainment of 10(13) and cm(-3) plasma by ICRF in RFC-XX
[IPPJ-653] 10 p1580 N84-20356
High density Z-pinch research
10 p1582 N84-20371
Laser light scattering from density fluctuations in the Culham focus — plasma focus 10 p1584 N84-20383
Proceedings on Symposium on Atomic Collision Data for Diagnostics and Modelling of Fusion Plasmas
[IPPJ-AM-33] 11 p1734 N84-21310
Atomic processes for plasma diagnostics in Tokamaks
11 p1734 N84-21311
Emission properties of highly ionized iron spectra for spectroscopic plasma diagnositcs
11 p1735 N84-21314
Diagnostics and simulation in G-XII implosion experiments 11 p1735 N84-21316
Atomic processes for modeling of inertial confinement fusion plasma 11 p1735 N84-21317
Atomic collision data for beam probe diagnostics of magnetically confined high temperature plasmas
11 p1735 N84-21318
Acoustically compensated two-wavelength interferometry for plasma density measurements: One-dimensional theory and applications
[DE84-007983] 14 p2229 N84-24368
One-dimensional transport code for field-reversed configurations
[DE84-007449] 15 p2411 N84-25477
Transport of deuterium, tritium and helium in a Tokamak
[REPT-84-150] 17 p2766 N84-27567
Initiation and accretion experiment on the HDZP
[DE84-009997] 18 p2933 N84-28601
An improved microwave interferometer technique for plasma density measurements
[TRITA-EPP-83-08] 18 p2935 N84-28611
Plasma and magnetospheric research
[NASA-CR-171060] 19 p3053 N84-29374
Effect of the density of ionized particles on the plasma response in the plasmosphere
[ISSN-0208-5658] 19 p3106 N84-29733
Line intensities for diagnosing laser-produced plasmas
[DE84-009857] 19 p3106 N84-29736
Formation of spatial Alfven resonance and global modes in an inhomogeneous plasma
[IPPJ-674] 20 p3302 N84-30986
Density variation due to wave heating in Tokamak plasmas
[DE84-009402] 20 p3305 N84-30993
A new model of Raman spectra in laser produced plasma
[DE84-012487] 20 p3307 N84-31005
APC-2: An electron beam propagation code
[DE84-011532] 21 p3494 N84-32144
Protective plasma envelope
[DE84-013316] 21 p3502 N84-32194
High density Z pinch as a small low-energy fusion device
[DE84-009992] 21 p3502 N84-32198
Observation of advanced particle removal rates in pump limiter simulation experiments
[DE84-014387] 22 p3660 N84-33202
Theory of the interface between a classical plasma and a hard wall
[DE84-701221] 24 p3966 N84-35111

PLASMA DIAGNOSTICS
X-ray spectroscopic study of high-temperature plasmas by curved crystal spectrometer
[IPPJ-639] 01 p0148 N84-10975
X-ray streak crystal spectrography — spectra of laser produced plasmas
[DE83-015618] 02 p0225 N84-11473
Performance of antennas in plasma
03 p0365 N84-12377
Atomic processes in hot dense plasma
[IPPJ-AM-31] 03 p0443 N84-12911
Bibliography on atomic processes in hot dense plasmas
[IPPJ-AM-29] 03 p0443 N84-12913
Real-time diagnostic-data-acquisition system for the Doublet 3 Tokamak fusion experiment
[DE83-018871] 03 p0445 N84-12927
Time-resolved spectral measurements above 80 A
[DE83-015616] 03 p0446 N84-12933
TFTR alpha extraction and measurement project
[DE83-018120] 03 p0448 N84-12947
Theory of interstellar medium diagnostics
03 p0472 N84-13108
Thomson-scattering measurements of electron temperature and density in a plasma channel created by a relativistic electron beam
[DE84-000356] 04 p0597 N84-13940
Tomographic technique in relativistic electron beam experiments
[DE84-000357] 04 p0598 N84-13949
TMX-U diagnostic system
[DE83-017834] 04 p0608 N84-14015
Investigation of soft X-ray reflective coatings
[DE84-000510] 04 p0610 N84-14025
Active experiments in space — conferences
[ESA-SP-195] 05 p0634 N84-14172
Creating unstable velocity-space distributions with barium injections 05 p0640 N84-14214
Waves in Space Plasmas (WISP): A space plasma lab active experiment 05 p0642 N84-14223
Hydrogen ignition for laser propulsion
06 p0928 N84-16026
Interpretation of STS-3/plasma diagnostics package results in terms of large space structure plasma interactions
[NASA-CR-173266] 07 p1075 N84-16991
Experimental study of high beta toroidal plasmas
[DE84-004869] 07 p1078 N84-17006
Review of the tandem mirror experiment-upgrade (TMX-U) machine-parameter-instrumentation system
[DE84-003243] 07 p1078 N84-17009
Characterization of the TEXTOR plasma edge using deposition probe techniques
[DE84-003306] 07 p1078 N84-17011
Work done on D. P. machine — double plasma (DP)
[OUEL-1468/83] 07 p1079 N84-17012
Comparison of thermal plasma observations on SCATHA and GEOS 08 p1117 N84-17262
A potential control method for thermal plasma measurements on the DE-1 spacecraft
08 p1119 N84-17276
Precisely aligned internal magnetic probes for the reversed-field pinch experiment, ZT-40
[DE84-009704] 08 p1233 N84-18058
The ISPM solar-wind plasma experiment
09 p1261 N84-18231
An investigation of RF currents in a magnetized plasma using a slow wave structure
[AD-A135680] 09 p1385 N84-19047
Microwave interferometer using 94-GHz solid-state sources
[DE84-003741] 09 p1392 N84-19090
Plasma magnetic field measurement by intracavity absorption
[DE84-005152] 10 p1500 N84-19806
Experimental studies on plasma confinement in Nagoya bumpy torus
[IPPJ-655] 10 p1580 N84-20355
Proceedings of the 3rd International Workshop on Plasma Focus Research — conference
[IPF-83-6] 10 p1581 N84-20357
Review of plasma flow research at the Institute of Plasma Physics and Laser Microfusion (IPPLM)
10 p1581 N84-20358

Preliminary investigations of 360 kJ plasma focus device, part 2
10 p1581 N84-20359
Dense plasma focus research at the Institute of Laser Engineering, Osaka (Japan)
10 p1581 N84-20360
Study of electron beam production by a plasma focus
10 p1582 N84-20367
High density Z-pinch research
10 p1582 N84-20371
Schlieren diagnostics at SPEED 1 — plasma focus
10 p1583 N84-20373
Breakdown phenomena in SPEED 1 — plasma focus
10 p1583 N84-20374
Dynamics of microstructures — plasma dynamics
10 p1583 N84-20376
Development of a high resolution cylindrical crystal spectrometer for line shape and spectral diagnostics of X-rays emitted from-hot-plasmas
[DE84-005684] 11 p1661 N84-20635
Current sensing in magnetic fusion experiments by Faraday rotation in single-mode optical fibers
[DE84-004326] 11 p1732 N84-21298
Proceedings on Symposium on Atomic Collision Data for Diagnostics and Modelling of Fusion Plasmas
[IPPJ-AM-33] 11 p1734 N84-21310
Atomic processes for plasma diagnostics in Tokamaks
11 p1734 N84-21311
Emission properties of highly ionized iron spectra for spectroscopic plasma diagnostics
11 p1735 N84-21314
Evaluation of excitation cross sections by plasma spectroscopy
11 p1735 N84-21315
Diagnostics and simulation in G-XII implosion experiments
11 p1735 N84-21316
Atomic collision data for beam probe diagnostics of magnetically confined high temperature plasmas
11 p1735 N84-21318
The effect of excitation anisotropy in the laser-induced fluorescence spectroscopy of plasmas
11 p1735 N84-21319
Spectroscopy in heliotron E
11 p1735 N84-21320
A comment on atomic processes relevant to alpha particle diagnostics
11 p1736 N84-21323
Atomic hydrogen beam probing with spectroscopic technique
11 p1736 N84-21324
Energy levels and transition probabilities of low Z ions for electric field determination
11 p1736 N84-21325
Wavelength measurement of X-ray lines from He-like ions
11 p1736 N84-21326
Charge exchange and related processes
11 p1736 N84-21327
Summary of the Symposium on Atomic Collision Data for Diagnostics and Modelling of Fusion Plasma
11 p1736 N84-21328
Stark spectroscopy of hydrogen lines in turbulent plasma. 1: Low-frequency turbulence
[DE84-004443] 11 p1737 N84-21333
Possibility of using pulsed CO2 lasers for radiation scattering diagnostics in Tokamak plasmas
[BLL-CTO-2199-(9001.9F)] 12 p1909 N84-22437
Atomic data calculations for application to the diagnostics of Tokamak plasmas. FY 1982 report
[DE84-006132] 12 p1910 N84-22446
Power transfer for microwave discharges
[AD-A136868] 13 p2044 N84-23267
Physics of high temperature, dense plasmas
[AD-A136872] 13 p2044 N84-23268
Activities report of the Institut fuer Plasmaforschung
13 p2046 N84-23276
The 1982 laser program
[DE84-006476] 14 p2151 N84-23887
Theoretical and experimental investigations for the construction of a continuous, RF-excited waveguide CO2-laser with high frequency tunability and high output power
[IPF-83-1] 14 p2151 N84-23889
Acoustically compensated two-wavelength interferometry for plasma density measurements: One-dimensional theory and applications
[DE84-007983] 14 p2229 N84-24368
Short-pulse short-wavelength optical probe for laser plasma
[DE84-006336] 14 p2230 N84-24375
An improved ion drift meter
[AD-A140043] 15 p2283 N84-24707
H Division materials physics
[DE84-007769] 15 p2304 N84-24826
The electron Echo 6 mechanical deployment systems
15 p2348 N84-25094
Effects of chemical releases by the STS-3 Orbiter on the ionosphere
[NASA-CR-171032] 15 p2367 N84-25204
Heavy ion beam probe for the study of plasma confinement in Nagoya bumpy torus
[IPPJ-669] 15 p2409 N84-25462
Plasma physics issues in advanced simulation research
[AD-A139628] 15 p2410 N84-25465
Plasma behavior in vacuum coating using hot hollow cathode: A literature survey and proposal for experiment
[DE84-007907] 15 p2411 N84-25471
Hopf bifurcation and the beam-plasma instability
[DE84-006243] 15 p2412 N84-25480
An overview of charging of large space structures in polar orbit
[AD-P002100] 16 p2521 N84-26186
Space Shuttle charging results
[AD-P002104] 16 p2522 N84-26190
STS-3/OSS-1 Plasma Diagnostics Package (PDP) measurements of Orbiter-generated V x B potentials and electrostatic noise
[AD-P002105] 16 p2522 N84-26191
Development and application of low energy X-ray and electron physics
[AD-A140480] 16 p2556 N84-26397
Plasma processes caused by an electron beam injected from a high altitude rocket probe. Part 1: Neutralization processes
[IWF-8302] 17 p2728 N84-27363
Volatilization-excitation phenomena and efficiency of spectrochemical buffers in the analysis of geological samples. 1: The action of the mixture Li2CO3 graphite
[JEN-555] 17 p2729 N84-27369
Research support for plasma diagnostics on Elmo Bumpy Torus - development of a multichannel Hall-probe based diamagnetic diagnostic instrument and observation and modeling of EBT electron rings
[DE84-006810] 18 p2933 N84-28600
Initiation and accretion experiment on the HDZP
[DE84-009997] 18 p2933 N84-28601
Line intensities for diagnosing laser-produced plasmas
[DE84-009857] 19 p3106 N84-29738
Plasma studies on ion diodes
[AD-A142183] 19 p3107 N84-29743
Activities report in plasma physics
19 p3109 N84-29755
Diagnostics of a high current capillary discharge
[DE84-011369] 20 p3179 N84-30194
High resolution, high rate X-ray spectrometer
[DE84-011116] 20 p3190 N84-30266
Holographic interferometry using 20-picosecond UV pulses to obtain time resolved hydro measurements of selenium and gold plasmas
[DE84-009485] 20 p3191 N84-30269
Photoemissive materials for 0.35 Micron laser fiducials in X-ray streak cameras
[DE84-006348] 20 p3194 N84-30283
Report on the experience with the Supervisory Control and Diagnostics System (SCDS) of MFTF-B
[DE84-012599] 20 p3278 N84-30807
Internal magnetic field measurements in a translating field-reversed configuration
[DE84-010054] 20 p3284 N84-30854
Observed current enhancement with propagation of the ETA electron beam in air
[DE84-010558] 20 p3293 N84-30909
Accelerator-based atomic physics experiments with photon and ion beams
[DE84-010789] 20 p3296 N84-30928
Magnetic fusion energy plasma interactive and high heat flux components. Volume 1: Technical assessment of the critical issues and problem areas in the plasma materials interaction field
[DE84-011527] 20 p3302 N84-30969
VUV instrument calibrations for laser-plasma studies
[DE84-010507] 20 p3303 N84-30974
Space resolved absolutely calibrated VUV spectroscopic measurements on CTX
[DE84-007490] 20 p3304 N84-30984
Two novel plasma diagnostics — single mode optical fiber sensors and phase conjugation in nonlinear optics
[DE84-009970] 20 p3305 N84-30990
Rotation and impurity transport in a Tokamak plasma with directed neutral beam injection
[DE84-008014] 20 p3306 N84-30996
Energy-resolving carbon resistance probes for plasma edge characterization
[DE84-012235] 20 p3306 N84-30997
Experimental observation of the shear Alfven resonance in a Tokamak
[DE84-012993] 20 p3306 N84-30998
Studies of CO2 laser interactions with plasma
[DE84-012485] 20 p3307 N84-31004
How useful are odd-integer half-harmonics
[DE84-012392] 21 p3501 N84-32190
Probing a plasma with high-energy beams of atoms using threshold detectors
[DE84-013360] 21 p3502 N84-32195
Nonthermal effects on the diagnostics of a collapsing gas shell Z-pinch
[DE84-009996] 21 p3502 N84-32199
Dynamics of heat, mass and momentum transfer in an inductively coupled plasma
[DE84-013499] 22 p3660 N84-33200
A high resolution system for analogue recording and digital processing of measured values in fusion research
[JUEL-1909] 23 p3752 N84-33786
Numerical analysis on the ion species ratios in a steady state hydrogen plasma
[IPPJ-687] 23 p3826 N84-34269
Visible-light imaging MHD studies of the edge plasma in the JIPP-T-IIU Tokamak
[IPPJ-683] 23 p3827 N84-34272
A proposed technique for creation and detection of hot electron ionization and gain effects in a laser-produced tin plasma
[AD-A144025] 23 p3828 N84-34281
Connection between the magnetosphere and ionosphere
23 p3837 N84-34339
Measurement and evaluation of arc characteristics (Ar,N2)
[NASA-TM-77507] 24 p3965 N84-35106

PLASMA DIFFUSION
Neoclassical transport associated with collisionless detrapping in a bumpy torus
[IPPJ-651] 10 p1580 N84-20350
Transport studies of ECH heated bumpy torus plasmas
[IPPJ-652] 10 p1580 N84-20353
Experimental studies on plasma confinement in Nagoya bumpy torus
[IPPJ-655] 10 p1580 N84-20355
Transport of a multiple-ion species plasma in the collisionless regime in a bumpy torus
[IPPJ-657] 11 p1734 N84-21307
Hydrodynamic theory of convective transport across a dynamically stabilized diffuse boundary layer — plasma flow
[JUEL-1869] 13 p2046 N84-23275
Transport of deuterium, tritium and helium in a Tokamak
[REPT-84-150] 17 p2766 N84-27567
Finite temperature effects on the evolution of ionospheric barium clouds in the presence of a conducting background ionosphere
[AD-A143592] 23 p3798 N84-34082

PLASMA DIODES
Diode dynamics, beam generation and transport and plasma erosion opening switch development
[AD-A129821] 01 p0070 N84-10457
Anode plasma expansion in pinch-reflex diodes
[AD-A131083] 01 p0149 N84-10977
Alternate implosion models for the plane parallel diode
[AD-A131275] 02 p0295 N84-11937
Status of light ion inertial fusion research at NRL (Naval Research Laboratory)
[AD-A135951] 09 p1392 N84-19067
Time-dependent Child-Langmuir diode simulation
[AD-A136964] 10 p1570 N84-20288
A diode model of high energy particle emission in the plasma focus device
10 p1582 N84-20368
Linear longitudinal oscillations in collisionless plasma diodes with thin sheaths. Part 1: Method
[AD-A136962] 10 p1585 N84-20388
Linear longitudinal oscillations in collisionless plasma diodes with thin sheaths. Part 2: Application to an extended pierce-type problem
[AD-A136963] 10 p1585 N84-20389
Plasma studies on ion diodes
[AD-A142183] 19 p3107 N84-29743

PLASMA DISCHARGES
U PLASMA JETS

PLASMA DISPERSION
U PLASMA DIFFUSION

PLASMA DRIFT
Neoclassical transport in a multiple-helicity torsatron in the low-collisionality regime: Strong radial electric-field limit
[DE83-016463] 02 p0296 N84-11941
Drift wave studies in a linear multiple mirror
[DE83-016881] 03 p0449 N84-12951
Locally omnigenous tandem-mirror design
[DE84-001605] 04 p0607 N84-14007
Microinstabilities in the high latitude F region: A brief review
[DE84-001709] 06 p0879 N84-15719
The DC electric field in space: Direct measurements and inferences from cold plasma drifts
08 p1117 N84-17264
Neoclassical transport associated with collisionless detrapping in a bumpy torus
[IPPJ-651] 10 p1580 N84-20350

The microstructure theory for three dimensional plasma transport
[AD-A136285] 12 p1910 N84-22441
F-layer ionization patches in the polar cap
[AD-A138633] 13 p2011 N84-23044
Long wavelength limit of interchange instabilities
[AD-A138943] 13 p2011 N84-23047
A high frequency radio technique for measuring plasma drifts in the ionosphere
[AD-A140509] 16 p2526 N84-26219
Electrostatic drift models in toroidal geometry
[REPT-84-152] 17 p2767 N84-27569
Quasi-steady state multi-plasma cloud configuration in the ionosphere
[AD-A141532] 19 p3107 N84-29739
Drift scintillation meter
[AD-A142523] 20 p3302 N84-30968
Physics issues in mirror and tandem mirror systems
[DE84-013837] 22 p3660 N84-33201
Influence of plasma flow on flute instability
[DE84-013314] 23 p3829 N84-34285

PLASMA DYNAMICS
Magnetospheric plasma studies using data from the dynamics high and low altitude plasma instruments
[AD-A131793] 03 p0406 N84-12670
Dynamics of quasineutral beams
05 p0639 N84-14201
Proceedings of the 3rd International Workshop on Plasma Focus Research — conference
[IPF-83-6] 10 p1581 N84-20357
Dynamics of microstructures — plasma dynamics
10 p1583 N84-20376
The optimization method for the Mather plasma focus device 10 p1583 N84-20377
Micropinch phenomenon in dense Z-pinch
10 p1583 N84-20378
Theoretical treatment of turbulent plasma dynamics
10 p1584 N84-20381
Tokamak plasma position dynamics and feedback control
[DE84-004424] 10 p1586 N84-20393
Stable Alfven wave dynamo action in the reversed field pinch
[DE84-004986] 10 p1586 N84-20397
Stability of planar multifluid plasma equilibria by Arnold's method
[DE84-004332] 11 p1655 N84-20801
Nonlinear interaction of tearing modes: A comparison between the Tokamak and the reversed field pinch configurations
[DE84-010582] 18 p2934 N84-28606
Line intensities for diagnosing laser-produced plasmas
[DE84-009857] 19 p3106 N84-29738
Activities report in plasma physics
19 p3109 N84-29755
Dynamics of plasma corona on spherical targets irradiated by laser 20 p3288 N84-30878
Effects of neutrals on particle transport of a plasma
[IPPJ-681] 23 p3827 N84-34274

PLASMA ELECTRODES
Large aperture optical switching devices
[DE84-005126] 12 p1908 N84-22433
Large aperture electro-optical switch
[DE84-013089] 22 p3588 N84-32728

PLASMA ENGINES
Phenomenology of plasma engine cathodes at high current rates and low pressures
[NASA-TM-77729] 24 p3866 N84-34502

PLASMA EQUILIBRIUM
Magnetohydrodynamic equilibrium and stability of spheromak plasma in flux conserver
[IPPJ-642] 03 p0443 N84-12909
A 2-D skin-current toroidal-MHD-equilibrium code
[DE83-016916] 03 p0446 N84-12929
Reversed-field pinch large aspect ratio equilibrium
[DE83-016771] 03 p0449 N84-12953
Variational-moment method for computing magnetohydrodynamic equilibria
[DE83-017477] 03 p0450 N84-12957
Application of the implicit Fourier-expansion method to the calculation of three-dimension equilibria by the iterative method
[DE83-017621] 04 p0590 N84-13902
Ponderomotive effects in nonneutral plasmas
[AD-A132109] 04 p0606 N84-13998
Inverse plasma equilibria
[DE84-000723] 04 p0607 N84-14008
Equilibrium studies for low-aspect-ratio torsatrons
[DE84-002264] 06 p0920 N84-15979
Steepest descent moment method for three-dimensional magnetohydrodynamic equilibria
[DE84-002993] 07 p1076 N84-16999
Observations of the GEOS-2 equilibrium potential and its relation to the ambient electron energy distribution
08 p1116 N84-17256
Equilibria in strongly magnetized pair plasmas
09 p1407 N84-19191
Atomic and molecular processes in discharge cleaning plasmas 11 p1736 N84-21322
Axisymmetric MHD equilibria with flow — Tokamaks
[IPP-6/230] 13 p2044 N84-23262
Scaling of the beam plasma discharge for low magnetic fields
[AD-A139415] 14 p2229 N84-24363
Magnetoacoustic heating and Flux-Conserving-Tokamak (FCT) equilibria in a belt pinch
[IPF-83-4] 14 p2231 N84-24380
Equilibrium calculations for helical axis stellarators
[DE84-010636] 18 p2933 N84-28598
Rapidly convergent algorithms for 3-D tandem and stellarator equilibria in the paraxial approximation
[DE84-009688] 18 p2933 N84-28603
Effect of the density of ionized particles on the plasma response in the plasmosphere
[ISSN-0208-5658] 19 p3106 N84-29733
Plasma confinement in self-consistent, one-dimensional transport equilibria in the collisionless-ion regime of EBT operation
[DE84-001861] 19 p3108 N84-29751
Accelerated convergence of the steepest-descent method for magnetohydrodynamic equilibria
[DE84-013602] 22 p3659 N84-33195
Toroidal equilibrium in an iron-core reversed field pinch
[DE84-013858] 23 p3828 N84-34283

PLASMA ETCHING
Study of plasma chemistry and plasma processing
[AD-A132207] 04 p0606 N84-13997

PLASMA FLOW
U MAGNETOHYDRODYNAMIC FLOW

PLASMA FOCUS
An investigation of accelerating mechanisms in a plasma focus relevant to interrupting switches
[AD-A133462] 06 p0920 N84-15983
Proceedings of the 3rd International Workshop on Plasma Focus Research — conference
[IPF-83-6] 10 p1581 N84-20357
Review of plasma flow research at the Institute of Plasma Physics and Laser Microfusion (IPPLM)
10 p1581 N84-20358
Preliminary investigations of 360 kJ plasma focus device, part 2 10 p1581 N84-20359
Dense plasma focus research at the Institute of Laser Engineering, Osaka (Japan) 10 p1581 N84-20360
Plasma focus research in China
10 p1581 N84-20361
Radiation and particle emission from a 1.6 kJ plasma focus 10 p1581 N84-20362
Macroscopic plasma behavior and charged particle acceleration in the plasma focus
10 p1581 N84-20363
Studies on ion beams produced in a plasma focus, part 2 10 p1582 N84-20364
Plasma focus evolution in time as seen from its neutron, gamma and X ray activities 10 p1582 N84-20365
Charge state resolved energy spectra of He, N, Ar, and Ne ions — in a plasma focus 10 p1582 N84-20366
Study of electron beam production by a plasma focus
10 p1582 N84-20367
A diode model of high energy particle emission in the plasma focus device 10 p1582 N84-20368
Ion and neutron emission of the Poseidon plasma focus 10 p1582 N84-20370
Schlieren diagnostics at SPEED 1 — plasma focus
10 p1583 N84-20373
Breakdown phenomena in SPEED 1 — plasma focus
10 p1583 N84-20374
A plasma focus with improved reproducibility
10 p1583 N84-20375
Dynamics of microstructures — plasma dynamics
10 p1583 N84-20376
The optimization method for the Mather plasma focus device 10 p1583 N84-20377
Current tube description of the focus plasma
10 p1584 N84-20379
Filamentation in the plasma focus as a plasma Meissner effect 10 p1584 N84-20380
Theoretical treatment of turbulent plasma dynamics
10 p1584 N84-20381
Laser-plasma interaction and self organization phenomena in magnetoplasmas
10 p1584 N84-20382
Laser light scattering from density fluctuations in the Culham focus — plasma focus 10 p1584 N84-20383
Laser light scattering at the POSEIDON plasma focus device 10 p1584 N84-20384
Observation of nonlinear phenomena — in the plasma focus 10 p1584 N84-20385
Prospects of the plasma focus for magnetic fusion
10 p1585 N84-20386
Activities report of the Institut fuer Plasmaforschung
13 p2046 N84-23276
The significance of the pinch phase for the production of neutrons in a plasma focus
[IPF-83-2] 14 p2231 N84-24379
Catastrophe in plasma focus evolution
[IPPJ-686] 23 p3825 N84-34268
Investigation of ion beam production and acceleration using linear electron beams and a pulse powered plasma focus
[AD-A144525] 24 p3962 N84-35068

PLASMA GENERATION
U PLASMA GENERATORS

PLASMA GENERATORS
NT PLASMA GUNS
NT TOKAMAK DEVICES
Ion-source and ion-accelerator development at Los Alamos
[DE83-014123] 01 p0146 N84-10959
Spectroscopic measurements of solar wind generation
03 p0466 N84-13071
Engineering aspects of disruption current decay
[DE84-002995] 07 p1076 N84-16998
Work done on D. P. machine — double plasma (DP)
[OUEL-1486/83] 07 p1079 N84-17012
Status of light ion inertial fusion research at NRL (Naval Research Laboratory)
[AD-A135951] 09 p1392 N84-19087
A plasma focus with improved reproducibility
10 p1583 N84-20375
Energy characteristics of plasma generated in air near target by radiation from CO2 laser
21 p3488 N84-32103

PLASMA GUNS
Study of electron beam production by a plasma focus
10 p1582 N84-20367
Coaxial carbon plasma gun deposition of amorphous carbon films
[NASA-TM-83600] 10 p1587 N84-20404
Steady state compact toroidal plasma production
[DE84-011090] 20 p3303 N84-30977
Railgun plasma armature characterisation experiments
[MRL-R-928] 24 p3965 N84-35104

PLASMA HEATING
NT ELECTRON CYCLOTRON HEATING
Polarization studies in electron cyclotron heating experiments on the Versator 2 Tokamak
[AD-A130808] 01 p0149 N84-10978
Advanced fusion concepts project summaries, FY 1983
[DE83-013973] 02 p0296 N84-11940
Theoretical aspects of throat-launch microwave heating in EBT-S
[DE83-015782] 03 p0438 N84-12875
Electron heating at interplanetary shocks
03 p0470 N84-13098
Summary of the status of negative-ion-based neutral beams
[DE84-001328] 04 p0598 N84-13948
Space-time evolution of the nonlinear 2-stream instability
[DE84-001336] 04 p0599 N84-13950
Scientific program and abstracts
[DE83-017620] 04 p0601 N84-13967
Experimental results on finite-beta limits and transport in the ISX-B Tokamak
[DE84-000258] 04 p0606 N84-14001
CTR plasma engineering studies
[DE84-001279] 04 p0607 N84-14006
Plasma heating generated by a rocket-borne electron accelerator 05 p0637 N84-14189
The temporal evolution of short scale striations in the heated ionosphere 05 p0706 N84-14631
Impurity poloidal asymmetries and plasma rotation in the PDX Tokamak 05 p0748 N84-14914
Hollow cathode apparatus
[NASA-CASE-NPO-15560-1] 07 p1076 N84-16993
Study of parametric instabilities during the Alcator C lower hybrid wave heating experiments
[DE84-002809] 07 p1077 N84-17000
Gas box control system for tandem mirror experiment upgrade
[DE84-003245] 07 p1078 N84-17008
Review of the tandem mirror experiment-upgrade (TMX-U) machine-parameter-instrumentation system
[DE84-003243] 07 p1078 N84-17009
Rapid magnetic energy release, its possible role in coronal heating and solar wind acceleration
[AD-A133170] 07 p1093 N84-17106
Nitriding with a pulsed glow discharge
[BLL-OA-TRANS-3168-(6169.3)]
08 p1128 N84-17335
The cathode material for a plasma-arc heater
[BLL-OA-TRANS-3126-(6196.3)]
08 p1232 N84-18053

Iron and steel (selected articles)
[AD-A135576] 09 p1282 N84-18376
Ohmic heating of the polar f-region by HF (High Frequency) pulse
[AD-A135946] 09 p1345 N84-18789
Effect of lower hybrid wave heating on alpha-particle dynamics
[IPPJ-649] 10 p1580 N84-20351
ICRF heating experiments on JIPP T-II
[IPPJ-650] 10 p1580 N84-20352
Buildup and sustainment of 10(19) and cm(-3) plasma by ICRF in RFC-XX
[IPPJ-653] 10 p1580 N84-20356
Conceptual design of the RFC reactor
[IPPJ-659] 11 p1733 N84-21304
Ion Bernstein wave heating experiment on JIPPT-II-U device
[IPPJ-662] 11 p1734 N84-21305
Correlations between plasma variables and the deposition process of Si films from chlorosilanes in low pressure RF plasma of argon and hydrogen
[NASA-TM-83603] 11 p1737 N84-21330
Proceedings of the DOE Planning Workshop on RF Theory and Computations
[DE84-006670] 12 p1910 N84-22442
External excitation of ion cyclotron drift waves in a two-ion species plasma
[IPPJ-665] 13 p2044 N84-23264
Design and fabrication of a surface conversion negative ion source and an 80 keV pre-accelerator
[DE84-006753] 13 p2045 N84-23269
Options for an ignited tokamak
[DE84-007927] 13 p2045 N84-23272
Magnetoacoustic heating and Flux-Conserving-Tokamak (FCT) equilibria in a belt pinch
[IPF-83-4] 14 p2231 N84-24380
Start-up and quasi-stationary drive of plasma current by lower hybrid wave in the JPII T-IIU Tokamak
[IPPJ-667] 15 p2409 N84-25461
Transmission system development for electron cyclotron heating experiments of a Tokamak plasma
[AD-A140688] 17 p2766 N84-27566
Electron velocity distributions near collisionless shocks
[DE84-011352] 20 p3185 N84-30235
Calculation of ballistic focusing of ion beams
[DE84-012870] 20 p3297 N84-30934
Theoretical studies of Elmo Bumpy Torus (EBT)
[DE84-010814] 20 p3303 N84-30976
Linear theory of lower hybrid heating
[DE84-010577] 20 p3303 N84-30979
Lower hybrid experiments at the 1 MW level on Alcator C: Heating and current drive
[DE84-010586] 20 p3304 N84-30981
Ohmic heating to 100-eV and helicity injection in CTX
[DE84-007494] 20 p3304 N84-30986
Density variation due to wave heating in Tokamak plasmas
[DE84-009402] 20 p3305 N84-30993
Synthesis of MIG-type electron guns for gyrotrons
[INPE-3191-PRE/555] 21 p3391 N84-31517
Electromagnetic theory of an antenna for ICR heating of a plasma in Tokamaks
[DE84-012986] 21 p3503 N84-32200
Spot heating calculation for a heavy ion driven high temperature experiment
[DE84-013879] 22 p3653 N84-33159
Plasma dynamics 22 p3683 N84-33354
Impurity origin during ICRF heating in JIPP T-IIU Tokamak
[IPPJ-682] 23 p3827 N84-34271
The EBT-S 28-GHz, 200-kW, CW, mixed-mode, quasi-optical plasma heating system
[DE84-014415] 23 p3829 N84-34287
Plasma heating, confinement and stabilization experiments in axisymmetric mirror-cusp device
[IPPJ-690] 24 p3965 N84-35105

PLASMA INSTABILITY
U MAGNETOHYDRODYNAMIC STABILITY

PLASMA INTERACTIONS
NT PLASMA-ELECTROMAGNETIC INTERACTION
Magnetospheric plasma studies using data from the dynamics high and low altitude plasma instruments
[AD-A131793] 03 p0408 N84-12670
Theory of interstellar medium diagnostics 03 p0472 N84-13106
Minor constituents in the solar wind originating from plasma-dust interactions 03 p0474 N84-13116
Wave and particle observations associated with the beam plasma discharge in a space simulation chamber 04 p0469 N84-13210
Highlights of the electron beam experiments in space in Japan 05 p0637 N84-14191
Waves in Space Plasmas (WISP): A space plasma lab active experiment 05 p0642 N84-14223
Thermal and electrical interaction of tantalum with a low temperature chemically active plasma flow
[NASA-TM-77374] 06 p0920 N84-15980
Study plasma interactions in the auroral ionosphere
[NASA-CR-175352] 07 p1032 N84-16698
Interpretation of STS-3/plasma diagnostics package results in terms of large space structure plasma interactions
[NASA-CR-173266] 07 p1075 N84-16991
Photovoltaic concentrator pointing dynamics and plasma interaction study 08 p1111 N84-17224
Spacecraft/plasma interactions and their influence on field and particle measurements — conferences
[ESA-SP-198] 08 p1115 N84-17253
Interaction of the space shuttle orbiter with the ionospheric plasma 08 p1117 N84-17265
An investigation of RF currents in a magnetized plasma using a slow wave structure
[AD-A135880] 09 p1385 N84-19047
Viking satellite thermal control analytical verification and test 10 p1441 N84-19410
Laser-plasma interaction and self organization phenomena in magnetoplasmas 10 p1584 N84-20382
Thermal characteristics of plasma reactors with cylindrical and conical multijet mixing chambers 13 p1970 N84-22788
The beam-density effect on energy loss of a relativistic charged particle beam
[AD-A139051] 13 p2041 N84-23241
Discharges on a negatively biased solar array in a charged particle environment
[NASA-TM-83644] 14 p2118 N84-23690
Neutral gas plasma interactions and critical ionization velocity phenomena
[AD-A139233] 14 p2228 N84-24360
Ionospheric characteristics: A review
[AD-P002101] 16 p2521 N84-26187
Is there a good way to model spacecraft charging in the presence of space-charge coupling, flow and magnetic fields?
[AD-P002102] 16 p2521 N84-26188
Charged particle effects on space systems
[AD-P002103] 16 p2522 N84-26189
Electron beam experiments and other observations from STS-3
[AD-P002106] 16 p2522 N84-26192
Floating potentials and the hot plasma generated by an electron-beam-emitting rocket in the ionosphere
[AD-P002107] 16 p2522 N84-26193
Estimates of precipitating electron power flux from simultaneous DMSP auroral image and ISEE-1 AKR observations
[AD-P002109] 16 p2523 N84-26195
Interactions between a large body and its environment in a low polar orbit
[AD-P002111] 16 p2523 N84-26197
Observations of differential charging with METEOSAT
[AD-P002112] 16 p2523 N84-26198
The interaction of large space structures with the near-Earth environment
[AD-P002115] 16 p2523 N84-26201
High voltage solar array models and Shuttle tile charging
[AD-P002123] 16 p2525 N84-26209
Space systems environmental interactions technology program
[AD-P002125] 16 p2525 N84-26211
Summary of experimental results
[AD-P002126] 16 p2525 N84-26212
Questions that need to be answered
[AD-P002127] 16 p2525 N84-26213
Fundamental processes in partially ionized plasmas
[AD-A140549] 16 p2558 N84-26414
Characteristics of arc currents on a negatively biased solar cell array in a plasma
[NASA-TM-83728] 18 p2807 N84-27824
Plasma discharge chemistry
[AD-A141033] 18 p2932 N84-28596
Solar array: Plasma interactions 19 p3048 N84-29343
Study of e-beam propagation in the ionosphere and magnetosphere
[AD-A142206] 19 p3054 N84-29380
Acceleration of ions and electrons by wave-particle interactions
[AD-A142341] 20 p3292 N84-30900
The gas-heating phase in electrical breakdown
[AD-A141961] 20 p3302 N84-30967
RF-induced stability and transport in axisymmetric tandem mirrors
[DE84-010642] 20 p3306 N84-30999
Experiments on interaction of keV particle beams with the ionosphere
[AD-A143277] 22 p3623 N84-32957
Negative ion formation due to hydrogen plasma surface interaction
[DE84-012259] 22 p3659 N84-33192
Synergistic effects in plasma surface interactions
[DE84-012346] 22 p3660 N84-33199
Interactions between satellites and plasma
[NASA-TM-77476] 23 p3700 N84-33451
Low and high altitude ionospheric modification experiments 23 p3796 N84-34072
Visible-light imaging MHD studies of the edge plasma in the JIPP-T-IIU Tokamak
[IPPJ-683] 23 p3827 N84-34272
Abnormal energy deposition on the wall through plasma disruptions
[IPPJ-684] 23 p3827 N84-34273
Theory of the interface between a classical plasma and a hard wall
[DE84-701221] 24 p3966 N84-35111
Pioneer 10 and 11 (Jupiter and Saturn) magnetometer experiment — interaction of a flowing plasma with Titan and the Jovian magnetosphere
[NASA-CR-174006] 24 p3989 N84-35241

PLASMA JETS
Optical emission and mass spectrometric studies of plasma deposition
[DE83-016700] 02 p0191 N84-11243
Baryon-antibaryon angular correlations in quark jets
[DE83-015923] 03 p0435 N84-12854
Observations of nonlinear behavior in a low-pressure discharge column
[AD-A132321] 04 p0605 N84-13996
Active experiments in space — conferences
[ESA-SP-195] 05 p0634 N84-14172
Beam plasma discharge and suprathermal electron tails 05 p0637 N84-14192
A second kind of Beam-Plasma Discharge (BPD): Rocket and laboratory results 05 p0637 N84-14193
Optical measurements of a large-scale laboratory Beam Plasma Discharge (BPD) 05 p0638 N84-14196
Beam Plasma Discharge (BPD) experiments in the laboratory 05 p0638 N84-14197
Initial experimental results from a laboratory size beam plasma discharge device 05 p0638 N84-14198
Suprathermal electron tail distributions in a space-simulation beam plasma discharge 05 p0638 N84-14199
Modeling of beam-plasma discharge in the laboratory 05 p0638 N84-14200
Plasma jet effects on the ionospheric plasma 05 p0639 N84-14202
Monte Carlo simulation of high p/sub P jets 06 p0911 N84-15915
The problem of tracking charged particles in the cores of high energy jets in a high rate environment 06 p0911 N84-15916
Investigation of a microwave discharge in argon/helium mixtures
[LP-202] 07 p0995 N84-16451
The cathode material for a plasma-arc heater
[BLL-OA-TRANS-3126-(6196.3)] 08 p1232 N84-18053
A procedure for investigating the composition of the plasma arc
[BLL-M-35454-(5828.4)] 09 p1391 N84-19083
Review of plasma flow research at the Institute of Plasma Physics and Laser Microfusion (IPPLM) 10 p1581 N84-20358
A plasma focus with improved reproducibility 10 p1583 N84-20375
Micropinch phenomenon in dense Z-pinch 10 p1583 N84-20378
Homogeneous reactions of hydrocarbons, silane, and chlorosilanes in radiofrequency plasmas at low pressures
[NASA-TP-2301] 11 p1626 N84-20643
Three-dimensional potential structure associated with Birkeland currents
[TRITA-EPP-83-09] 12 p1912 N84-22455
Liquid propellant ignition studies 13 p1949 N84-22670
Thermal characteristics of plasma reactors with cylindrical and conical multijet mixing chambers 13 p1970 N84-22788
On the plasma physics on the beam plasma discharge
[AD-A139265] 14 p2228 N84-24361
Scaling of the beam plasma discharge for low magnetic fields
[AD-A139415] 14 p2229 N84-24363
Deposition stress effects on thermal barrier coating burner rig life
[NASA-TM-83670] 16 p2470 N84-25830
Characteristics of a plasma-injection-controlled discharge for CO2 mixing lasers
[MRL-R-922] 16 p2497 N84-26020

Role of excitation frequency in discharges created by surface waves
[LP-205] 16 p2558 N84-26411
Plasma processes caused by an electron beam injected from a high altitude rocket probe. Part 2: Studies of beam-plasma discharge
[IWF-8303] 17 p2726 N84-27364
Volatilization-excitation phenomena and efficiency of spectrochemical buffers in the analysis of geological samples. 1: The action of the mixture Li2CO3 graphite
[JEN-555] 17 p2729 N84-27369
Beam plasma discharge in space and laboratory
[IFSI-84-5] 18 p2934 N84-28609
The role of metastables in reactive plasmas
[LP-206] 19 p3109 N84-29756
A review of anode phenomena in vacuum arcs
[DE84-012371] 21 p3395 N84-31547
Plasma discharge elemental detector for a mass spectrometer
[DE84-011078] 21 p3406 N84-31604
Research and development of a plasma jet mass accelerator as a driver for impact fusion
[DE84-012940] 22 p3659 N84-33198
Plasma-particle interaction effects in induction plasma modelling under dense loading conditions
[DE84-013388] 22 p3660 N84-33203
Dynamics of heat, mass and momentum transfer in an inductively coupled plasma
[DE84-014121] 23 p3828 N84-34282
Measurement and evaluation of arc characteristics (Ar,N2)
[NASA-TM-77507] 24 p3965 N84-35106

PLASMA LAYERS
NT PLASMA SHEATHS
Tearing instability in an anisotropic neutral sheet
[AD-A132684] 05 p0749 N84-14920
Work done on D. P. machine — double plasma (DP)
[OUEL-1488/83] 07 p1079 N84-17012
A plasma focus with improved reproducibility
10 p1583 N84-20375
Extraction of volume produced H(-) or D(-) ions from a sheet plasma 2
[IPPJ-686] 15 p2409 N84-25480
Stability of laminar electron layers
[AD-A143788] 23 p3822 N84-34235
Theory of the interface between a classical plasma and a hard wall
[DE84-701221] 24 p3966 N84-35111

PLASMA LIFETIME
Tau and B lifetime measurements from the MARK 2
[DE83-018219] 03 p0439 N84-12879
Buildup and sustainment of 10(13) and cm(-3) plasma by ICRF in RFC-XX
[IPPJ-653] 10 p1580 N84-20356

PLASMA OSCILLATIONS
Beam plasma discharge and suprathermal electron tails
05 p0637 N84-14192
Virtual cathode oscillations
[AD-A135120] 08 p1228 N84-18027
Linear longitudinal oscillations in collisionless plasma diodes with thin sheaths. Part 2: Application to an extended pierce-type problem
[AD-A136963] 10 p1585 N84-20389
Mean excitation energies for stopping powers in various materials using local plasma oscillator strengths
[NASA-TP-2271] 11 p1760 N84-21485
Formation of spatial Alfven resonance and global modes in an inhomogeneous plasma
[IPPJ-674] 20 p3302 N84-30966
Nonlinear dynamics of resonance-type instability in high-density electron beam: Analytical solution
21 p3483 N84-32074
Abnormal energy deposition on the wall through plasma disruptions
[IPPJ-684] 23 p3827 N84-34273

PLASMA PERTURBATION
U PLASMA OSCILLATIONS

PLASMA PHYSICS
Saturn's outer magnetosphere
[NASA-TM-85105] 01 p0165 N84-11084
Solutions of a 4th order differential equation describing mode conversion in a magnetized plasma
[AD-A131600] 02 p0281 N84-11840
Radial evolution of ion distribution functions
03 p0470 N84-13094
Measurement of macroscopic plasma parameters with a radio experiment: Interpretation of the quasi-thermal noise spectrum observed in the solar wind
03 p0470 N84-13096
Application of the implicit Fourier-expansion method to the calculation of three-dimension equilibria by the iterative method
[DE83-017621] 04 p0590 N84-13902
Analysis of mechanisms for anode plasma formation in ion diodes
[DE83-017793] 04 p0606 N84-14010
A multipurpose production controller for plasma physics codes
[LA-9477-MS] 06 p0920 N84-15979
ISEE observations of magnetopause reconnection: The energy balance
08 p1185 N84-17720
Data flow computer architecture
[DE84-004198] 11 p1704 N84-21111
Enhancement of the excitation and deexcitation rate coefficient of ions in dense plasmas: The role of autoionizing states
[IPPJ-661] 11 p1733 N84-21302
Annual review, April 1982 - March 1983
[ISSN-0547-1567] 11 p1733 N84-21303
Research in space physics at the University of Iowa, 1982
[NASA-CR-175411] 11 p1754 N84-21447
USSR report: Space
[JPRS-USP-84-002] 12 p1774 N84-21586
Effect of concentrated energy streams on materials: Problems and prospects
12 p1784 N84-21638
Mini, micro, and high-efficiency torches for the ICP (Inductively-Coupled Plasma): Toys or tools?
[AD-A138144] 12 p1909 N84-22440
The physics of a single-event upset in integrated circuits: A review and critique of analytical models for charge collection
[NASA-CR-173471] 12 p1912 N84-22459
Formation of negative ions by charge transfer: He(-) to Cl(-)
[DE84-005718] 13 p2041 N84-23243
Optical imaging of a coupling region between inter-streaming plasmas
[AD-A139191] 14 p2224 N84-24348
On the plasma physics on the beam plasma discharge
[AD-A139265] 14 p2228 N84-24361
Status of plasma physics techniques for the deposition of tribological coatings
15 p2342 N84-25056
Plasma and magnetospheric research
[NASA-CR-171031] 15 p2366 N84-25205
Plasma physics issues in advanced simulation research
[AD-A139626] 15 p2410 N84-25465
Gravito-magnetic origin of the temperature of a stellar corona
15 p2421 N84-25545
Fundamental processes in partially ionized plasmas
[AD-A140549] 16 p2558 N84-26414
Ionospheric observation activities report
[UIO-SR-84-01] 17 p2728 N84-27367
Publications from the Department of Plasma Physics and the Unit of Accelerator Technology: Index and abstracts, 1983
[TRITA-EPP-83-10] 17 p2766 N84-27564
Atomic collisions and plasma physics
[AD-A141320] 18 p2880 N84-28286
Space physics research activities report
[ISSN-0347-6405] 18 p2928 N84-28567
Report in interplanetary space physics
[ISFI-84-8] 18 p2950 N84-28708
NRC survey on plasma physics and fluids fusion plasma confinement and heating. Chapter 8: Inertial confinement fusion
[AD-A142302] 19 p3107 N84-29744
Advanced ICRF launchers for heating and current drive in large Tokamaks
[DE84-009092] 19 p3108 N84-29750
Plasma confinement in self-consistent, one-dimensional transport equilibria in the collisionless-ion regime of EBT operation
[DE84-001861] 19 p3108 N84-29751
Experimental study of impurity production in the Tokapole II Tokamak
[DE84-009659] 19 p3109 N84-29754
Activities report in plasma physics
19 p3109 N84-29755
Plasma in diverter during intense recycling
20 p3288 N84-30877
IEEE Transactions on Nuclear Science. Volume NS-30, no. 4, part 2: 1983 Particle Accelerator Conference
[DE84-007400] 20 p3294 N84-30914
Microstability theory for distributions separable in energy and pitch angle
[DE84-009683] 20 p3305 N84-30991
Nonlocal heat transport by non-Maxwellian electrons
[DE84-012391] 20 p3306 N84-31000
USSR report: Physics and mathematics
[JPRS-UPM-84-003] 21 p3477 N84-32043
USSR report: Physics and mathematics
[JPRS-UPM-84-005] 21 p3484 N84-32081
RLE Progress Report no. 126
[RLE-PR-126] 22 p3681 N84-33336
The variation of range type spread F occurrence with a solar cycle at Fortaleza and Cachoeira Paulista
[INPE-3209-PRE/566] 23 p3797 N84-34080
Alpha-particle simulation using NBI beam and ICRF wave
[IPPJ-688] 23 p3827 N84-34270
Flute instability of plasma in a gas-dynamic trap
[DE84-013348] 23 p3828 N84-34284
Assessment of plasma transport and convection at high latitudes
23 p3837 N84-34343
High latitude ionospheric structure
23 p3837 N84-34344
Research studies on magnetohydrodynamic systems and modeling solar dynamical behavior
[AD-A143680] 23 p3844 N84-34389
Advanced studies of integrable systems
[AD-A144122] 24 p3959 N84-35069

PLASMA PINCH
NT THETA PINCH
NT ZETA PINCH
Sustained self-reversal in the reversed field pinch
[DE84-001559] 06 p0921 N84-15990
Review of plasma flow research at the Institute of Plasma Physics and Laser Microfusion (IPPLM)
10 p1581 N84-20358
Schlieren diagnostics at SPEED 1 — plasma focus
10 p1583 N84-20373
Breakdown phenomena in SPEED 1 — plasma focus
10 p1583 N84-20374
Activities report of the Institut fuer Plasmaforschung
13 p2046 N84-23276
The significance of the pinch phase for the production of neutrons in a plasma focus
[IPF-83-2] 14 p2231 N84-24379
Initiation and accretion experiment on the HDZP
[DE84-009997] 18 p2933 N84-28601
High density Z pinch as a small low-energy fusion device
[DE84-009992] 21 p3502 N84-32198
Nonthermal effects on the diagnostics of a collapsing gas shell Z-pinch
[DE84-009998] 21 p3502 N84-32199
Toroidal equilibrium in an iron-core reversed field pinch
[DE84-013858] 23 p3828 N84-34283

PLASMA POTENTIALS
Plasma source for spacecraft potential control
[NASA-CR-174552] 01 p0028 N84-10177
Spontaneous transfer of magnetically stored energy to kinetic energy by electric double layers
[TRITA-EPP-83-05] 02 p0297 N84-11949
Effects of small-scale plasma disturbance on the IKB-1300 spacecraft potential
[PR-839] 08 p1109 N84-17206
Spacecraft/plasma interactions and their influence on field and particle measurements — conference
[ESA-SP-198] 08 p1115 N84-17253
The potential of ISEE in different plasma environments
08 p1116 N84-17257
Anomalously high potentials observed on ISEE
08 p1116 N84-17258
The role of potential barrier formation in spacecraft charging
08 p1118 N84-17269
A potential control method for thermal plasma measurements on the DE-1 spacecraft
08 p1119 N84-17276
Methods for keeping a conductive spacecraft near the plasma potential
08 p1119 N84-17277
Transport studies of ECH heated bumpy torus plasmas
[IPPJ-652] 10 p1580 N84-20353
Ballooning precessional instabilities in a single cell hot electron plasma
[DE84-007017] 14 p2230 N84-24373
Heavy ion beam probe for the study of plasma confinement in Nagoya bumpy torus
[IPPJ-669] 15 p2409 N84-25462
Space charge around conductors at high potential magnetoplasma
[IFSI-84-4] 18 p2934 N84-28608

PLASMA POWER SOURCES
NT PLASMA ENGINES
Preliminary design of a reuseable PPMHD (Pulsed Plasma MHD) power supply test bed facility
[AD-A144147] 24 p3965 N84-35108

PLASMA PROBES
NT ELECTROSTATIC PROBES
Proceedings on Symposium on Atomic Collision Data for Diagnostics and Modelling of Fusion Plasmas
[IPPJ-AM-33] 11 p1734 N84-21310
Atomic collision data for beam probe diagnostics of magnetically confined high temperature plasmas
11 p1735 N84-21318
Atomic hydrogen beam probing with spectroscopic technique
11 p1736 N84-21324
Heavy ion beam probe for the study of plasma confinement in Nagoya bumpy torus
[IPPJ-669] 15 p2409 N84-25462
Shuttle Orbiter charging in polar Earth orbit
[AD-P002116] 16 p2524 N84-26202
Interactions between satellites and plasma
[NASA-TM-77476] 23 p3700 N84-33451

PLASMA PROPULSION
Test bed ion engine development
[NASA-CR-174623] 11 p1624 N84-20632
An MPD thruster with liquid metal injection
[ISAS-610] 20 p3165 N84-30103
PLASMA PUMPING
Self-pumping impurity by in-situ metal deposition
[DE83-017937] 03 p0355 N84-12306
Continuous plasma treatment and resin impregnation of a high-strength fiber material
[DE84-000314] 04 p0492 N84-13229
PLASMA RADIATION
The total field in collective bremsstrahlung in a nonequilibrium relativistic beam-plasma system
[AD-A136595] 10 p1585 N84-20391
On the form of the collective bremsstrahlung recoil force in a nonequilibrium relativistic beam-plasma system
[AD-A139895] 15 p2410 N84-25467
Further analysis of plasma bursts in high-latitude boundary layer of earth 19 p2973 N84-26847
Study of dry resistant techniques for electron beam lithography
[BMFT-FB-T-84-037] 19 p3028 N84-29206
Mathematical modelling of Laser/Material interactions
[AD-A141096] 19 p3029 N84-29208
Advanced concepts theory
[AD-A141568] 19 p3107 N84-29741
PLASMA RENIN ACTIVITY
U IMMUNOASSAY
PLASMA RESONANCE
Formation of spatial Alfven resonance and global modes in an inhomogeneous plasma
[IPPJ-674] 20 p3302 N84-30966
Non-geometrical optics investigation of mode conversion in weakly relativistic inhomogeneous plasmas
[DE84-012396] 20 p3306 N84-31002
Resonance and edge amplification of an electric field in a plasma resonance layer and acceleration of particles at plasma inhomogeneities 21 p3483 N84-32073
Nonlinear dynamics of resonance-type instability in high-density electron beam: Analytical solution
21 p3483 N84-32074
Nonlinear effects in electron cyclotron resonance heating of plasmas
[INPE-3233-PRE/583] 24 p3964 N84-35103
PLASMA RINGS
U TOROIDAL PLASMAS
PLASMA SHEATHS
Effects of reflections and trapped ions on the thermionic emitter sheath
[DE83-010233] 01 p0150 N84-10988
Analysis of mechanisms for anode plasma formation in ion diodes
[DE83-017793] 04 p0608 N84-14010
Contributions to satellite sheath and wake modeling
08 p1117 N84-17266
A model of electrostatic charging and sheath structure of GIOTTO near Halley's comet
08 p1118 N84-17274
Sheath ionization model of beam emissions from large spacecrafts
[AD-A137181] 10 p1448 N84-19463
Time-dependent Child-Langmuir diode simulation
[AD-A138964] 10 p1570 N84-20288
A diode model of high energy particle emission in the plasma focus device 10 p1582 N84-20368
Schlieren diagnostics at SPEED 1 — plasma focus
10 p1583 N84-20373
Linear longitudinal oscillations in collisionless plasma diodes with thin sheaths. Part 1: Method
[AD-A138962] 10 p1585 N84-20388
Linear longitudinal oscillations in collisionless plasma diodes with thin sheaths. Part 2: Application to an extended pierce-type problem
[AD-A138963] 10 p1585 N84-20389
Investigation of sheath phenomena in electronegative glow discharges
[AD-A138100] 12 p1888 N84-22359
Shuttle Orbiter charging in polar Earth orbit
[AD-P002116] 16 p2524 N84-26202
The importance of neutrals, transient effects, and the Earth's magnetic field on sheath structure
[AD-P002119] 16 p2524 N84-26205
Polar code development
[AD-P002122] 16 p2524 N84-26208
High voltage solar array models and Shuttle tile charging
[AD-P002123] 16 p2525 N84-26209
Sheath shapes: A 3-D generalization of the Child-Langmuir sheath model for large high-voltage space structures in dense plasmas
[AD-P002124] 16 p2525 N84-26210
PLASMA SLABS
Particle simulation of drift waves in a sheared magnetic field
[DE84-004026] 09 p1393 N84-19093
PLASMA SOUND WAVES
U MAGNETOHYDRODYNAMIC WAVES
U PLASMA WAVES
PLASMA SPECTRA
An extreme ultraviolet study of Tokamak plasmas using a time-resolving spectrograph 05 p0748 N84-14915
Collisional-radiative model for helium-like ions: Application to intermediate-density plasmas
[IPPJ-647] 06 p0919 N84-15976
Evaluation of excitation cross sections by plasma spectroscopy 11 p1735 N84-21315
Spectroscopy in heliotron E 11 p1735 N84-21320
High resolution X-ray spectra of H- and He-like argon from the Alcator C Tokamak 11 p1735 N84-21321
Relation of vertical intensity profiles for neutral atom lines to analyte atomization behavior in inductively coupled plasmas
[DE84-014126] 22 p3659 N84-33194
PLASMA SPRAYING
Ceramic composite liner material for gas turbine combustors
[NASA-TM-83490] 05 p0631 N84-14145
The structure and behavior of vacuum plasma sprayed overlay coatings on nickel based superalloys
[AD-A132631] 05 p0654 N84-14301
Tenth International Thermal Spraying Conference
[AD-A133074] 05 p0663 N84-14359
Preliminary investigation of ceramic-coated anodes for cathodic protection
[AD-A133440] 06 p0810 N84-15273
Abrasive tip treatment for use on compressor blades
[NASA-CR-174666] 15 p2343 N84-25065
Deposition stress effects on thermal barrier coating burner rig life
[NASA-TM-83670] 16 p2470 N84-25830
Development of protective coatings obtained by low pressure plasma spraying 18 p2934 N84-28607
Failure analysis of plasma-sprayed thermal barrier coatings
[NASA-TM-83777] 21 p3365 N84-31347
Investigation of the state of materials in plasma deposition of refractory coatings
[BLL-M-35686-(5828.4)] 22 p3551 N84-32485
Coatings for fuel economy or materials substitution
23 p3704 N84-33477
Improved thermal barrier coating system
[NASA-CASE-LEW-14057-1] 23 p3724 N84-33595
PLASMA STABILITY
U MAGNETOHYDRODYNAMIC STABILITY
PLASMA TEMPERATURE
Buildup and sustainment of 10(13) and cm(-3) plasma by ICRF in RFC-XX
[IPPJ-653] 10 p1580 N84-20356
Proceedings on Symposium on Atomic Collision Data for Diagnostics and Modelling of Fusion Plasmas
[IPPJ-AM-33] 11 p1734 N84-21310
Atomic processes for plasma diagnostics in Tokamaks
11 p1734 N84-21311
Emission properties of highly ionized iron spectra for spectroscopic plasma diagnositcs
11 p1735 N84-21314
Diagnostics and simulation in G-XII implosion experiments 11 p1735 N84-21316
Atomic processes for modeling of inertial confinement fusion plasma 11 p1735 N84-21317
Atomic collision data for beam probe diagnostics of magnetically confined high temperature plasmas
11 p1735 N84-21318
Plasma and magnetospheric research
[NASA-CR-171060] 19 p3053 N84-29374
Line intensities for diagnosing laser-produced plasmas
[DE84-009857] 19 p3106 N84-29738
How useful are odd-integer half-harmonics
[DE84-012392] 21 p3501 N84-32190
Expressions to determine temperatures and emission measures for solar X-ray events from GOES measurements
[NASA-TM-86142] 22 p3679 N84-33325
PLASMA THEORY
U PLASMA PHYSICS
PLASMA TORCHES
Mini, micro, and high-efficiency torches for the ICP (Inductively-Coupled Plasma): Toys or tools?
[AD-A138144] 12 p1909 N84-22440
Industrial applications for plasma torches
[SNIAS-832-430-101] 15 p2305 N84-24829
PLASMA TURBULENCE
Beam plasma turbulence study
[AD-A131946] 03 p0444 N84-12917
Nonlinear force on an unpolarized relativistic test particle to second order in the total field in a nonequilibrium beam-plasma system
[AD-A131631] 03 p0444 N84-12919
Theory of hydromagnetic turbulence
03 p0467 N84-13077
Observations and theory of irregularities of middle latitude sporadic E layers 04 p0562 N84-13703
Ion coupling to magnetosheath bulk motion — Active Magnetospheric Particle Tracers Explorers (AMPTE) program 05 p0641 N84-14217
Bottomside sinusoidal waves, a new class of equatorial plasma irregularities 05 p0705 N84-14628
The IPSM coronal-sounding experiment
09 p1262 N84-18240
Proceedings of the 3rd International Workshop on Plasma Focus Research — conference
[IPF-83-6] 10 p1581 N84-20357
Theoretical treatment of turbulent plasma dynamics
10 p1584 N84-20381
Reconnections in Spheromak formation and sustainment
[DE84-004157] 10 p1586 N84-20398
Research continues with Intercosmos-Bolgariya-1300 satellite 12 p1775 N84-21577
The basic equations for a four component theory of turbulent magnetoplasmadynamics
[IPF-83-3] 12 p1911 N84-22453
Theory of beam channel hydrodynamics
[AD-A139595] 14 p2229 N84-24365
Influence of microturbulence on early time HANE structure
[AD-A141244] 18 p2933 N84-28597
Thermal instabilities in the edge region of reversed-field pinches
[DE84-013861] 22 p3659 N84-33196
Visible-light imaging MHD studies of the edge plasma in the JIPP-T-IIU Tokamak
[IPPJ-883] 23 p3827 N84-34272
Temporal evolution of whistler growth in a cold plasma injection experiment
[NASA-CR-173972] 23 p3828 N84-34280
PLASMA WAVES
NT ELECTROSTATIC WAVES
Results of PLACES data analysis
[AD-A130933] 01 p0066 N84-10432
Currents in the Earth's magnetotail
[NASA-CR-174467] 01 p0104 N84-10679
Long wavelength limit of the E X B instability
[AD-A129812] 01 p0105 N84-10681
Parametric excitation and suppression of convective plasma instabilities in the high latitude F-region ionosphere
[AD-A130652] 01 p0105 N84-10682
Theoretical research on charged particle beam and other plasma systems
[AD-A130381] 01 p0149 N84-10976
Thermal effects on surface ripple charges for waves on a plasma column
[TRITA-EPP-83-03] 02 p0297 N84-11948
Beam plasma turbulence study
[AD-A131946] 03 p0444 N84-12917
Jupiter Data Analysis Program: Analysis of Voyager wideband plasma wave observations
[NASA-CR-174575] 03 p0465 N84-13058
Plasma beat-wave accelerator
[DE84-001601] 05 p0750 N84-14925
Interplanetary flow systems associated with cosmic ray modulation in 1977 - 1980
[NASA-TM-85120] 08 p1246 N84-18149
The ISPM unified radio and plasma wave experiment
09 p1262 N84-18237
Interdisciplinary study of directional discontinuities in the solar wind with ISPM 09 p1263 N84-18242
ICRF waveguide couplers — tokamak devices
[DE84-004042] 09 p1392 N84-19092
Particle simulation of drift waves in a sheared magnetic field
[DE84-004026] 09 p1393 N84-19093
Wave dynamics of regular and chaotic rays
[DE84-006061] 12 p1911 N84-22452
Nonlinear theory of lower hybrid current drive II
[DE84-007292] 15 p2410 N84-25469
Production of plasma with variable, radial electric fields
[NASA-CR-173434] 16 p2558 N84-26413
Low frequency electric and magnetic noise along the auroral field lines
[NASA-CR-173641] 17 p2727 N84-27358
Plasma simulation studies of electron acceleration for beat wave and single frequency-laser heating schemes
[DE84-009988] 20 p3305 N84-30992
Non-geometrical optics investigation of mode conversion in weakly relativistic inhomogeneous plasmas
[DE84-012396] 20 p3306 N84-31002
PLASMA-ELECTROMAGNETIC INTERACTION
Spontaneous transfer of magnetically stored energy to kinetic energy by electric double layers
[TRITA-EPP-83-05] 02 p0297 N84-11949
Propagation and absorption of electromagnetic waves in fully relativistic plasmas
[DE83-017246] 03 p0450 N84-12959

The structure of the plasma sheet-lobe boundary in the Earth's magnetotail
[NASA-TM-85434] 03 p0463 N84-13049
Plasma particle acceleration due to emission of ground-based and onboard transmitters
05 p0636 N84-14181
Numerical simulation of the plasma current quench following a disruptive energy loss
[DE84-003151] 07 p1077 N84-17004
Interaction of electromagnetic fields with plasma
[AD-A135173] 08 p1232 N84-18054
Effect of lower hybrid wave heating on alpha-particle dynamics
[IPPJ-649] 10 p1580 N84-20351
ICRF heating experiments on JIPP T-II
[IPPJ-650] 10 p1580 N84-20352
Dynamically accelerated superthermal electrons in microwave plasma interaction
[IPPJ-648] 10 p1580 N84-20354
Electromagnetic radiation from a moving conducting tether — tethered satellites
[IFSI-84-2] 18 p2831 N84-27973
Beam plasma discharge in space and laboratory
[IFSI-84-5] 18 p2934 N84-28609
Analysis of the influence of nonlinear and dissipative effects in atmospheric plasma
[ISSN-0208-5658] 19 p3106 N84-29732
First observations of 140 MHz plasma line backscatter during healthy experiments at Tromsoe
[UIO-SR-84-02] 20 p3243 N84-30588

PLASMA-PARTICLE INTERACTIONS
Space-time evolution of the nonlinear 2-stream instability
[DE84-001336] 04 p0599 N84-13950
Filamentation instability of ion acoustic waves driven by a scattered relativistic beam
[DE84-001323] 04 p0599 N84-13956
Ionospheric modification by electron beams. Results from electron accelerator experiments on rockets in Norway
05 p0637 N84-14188
Plasma processes in the region of electron beam injection from a high altitude payload
05 p0637 N84-14194
Optical measurements of a large-scale laboratory Beam Plasma Discharge (BPD)
05 p0638 N84-14196
Dynamics of quasineutral beams
05 p0639 N84-14201
Plasma jet effects on the ionospheric plasma
05 p0639 N84-14202
Energetic ion beam-plasma interactions
[AD-A133816] 05 p0749 N84-14918
The total field in collective bremsstrahlung in a nonequilibrium relativistic beam-plasma system
[AD-A136595] 10 p1585 N84-20391
Pair production rates in mildly relativistic, magnetized plasmas
[NASA-TM-86103] 15 p2405 N84-25434
REB (Relativistic Electron Beam)/channel tracking experiments in low pressure ammonia
[AD-A140209] 16 p2555 N84-26394
Energetic ion beam-plasma interactions
[AD-A140173] 16 p2558 N84-26412
Possible sources of irregular geomagnetic variations
17 p2704 N84-27223
Plasma processes caused by an electron beam injected from a high altitude rocket probe. Part 1: Neutralization processes
[IWF-8302] 17 p2728 N84-27363
Plasma processes caused by an electron beam injected from a high altitude rocket probe. Part 2: Studies of beam-plasma discharge
[IWF-8303] 17 p2728 N84-27364
Observations of fast magnetospheric echoes of artificially injected electrons above an auroral arc
[BMFT-FB-W-84-014] 19 p3055 N84-29390
Steady-state solutions of propagating LIB with rotating motion
[IPPJ-672] 19 p3106 N84-29734
Plasma-particle interaction effects in induction plasma modelling under dense loading conditions
[DE84-013368] 22 p3660 N84-33203
Effects of neutrals on particle transport of a plasma
[IPPJ-681] 23 p3827 N84-34274

PLASMAGUIDES
Far field radiation patterns from open ended oversized circular waveguides and identification of multimode outputs of gyrotrons
[IPF-83-5] 12 p1911 N84-22454

PLASMAS (PHYSICS)
NT ARGON PLASMA
NT BETA PARTICLES
NT CESIUM PLASMA
NT COLD PLASMAS
NT COLLISIONAL PLASMAS
NT COLLISIONLESS PLASMAS
NT COSMIC PLASMA
NT CYLINDRICAL PLASMAS
NT DENSE PLASMAS
NT ELECTRON PLASMA
NT HELIUM PLASMA
NT HIGH TEMPERATURE PLASMAS
NT HYDROGEN PLASMA
NT LASER PLASMAS
NT METALLIC PLASMAS
NT NONEQUILIBRIUM PLASMAS
NT NONUNIFORM PLASMAS
NT OXYGEN PLASMA
NT PLASMA FOCUS
NT RELATIVISTIC PLASMAS
NT ROTATING PLASMAS
NT SOLAR WIND
NT STELLAR WINDS
NT STRONGLY COUPLED PLASMAS
NT THERMAL PLASMAS
Effect of oxygen monolayer coverages on titanium sputtering yields as determined by simultaneous laser fluorescence and Auger measurements
[DE83-014716] 01 p0046 N84-10296
Forbidden line radiation cooling of high altitude plasmas
[AD-A131268] 01 p0149 N84-10979
Heat conduction process in Tokamak hot-ion plasmas
[DE83-014884] 01 p0150 N84-10987
SCATHA (Spacecraft charging at high altitudes) environmental atlas
[AD-A131456] 02 p0185 N84-11201
Quark-gluon plasma formation
[DE83-017742] 03 p0436 N84-12861
Detailed modeling of microwave energy deposition in EBT devices
[DE83-017496] 03 p0449 N84-12952
The collapse of the local, Spitzer-Haerm formulation and a global-local generalization for heat flow in an inhomogeneous, fully ionized plasma
03 p0488 N84-13080
Positive ion-molecule reactions in OCS/hydrocarbon mixtures
[AD-A132350] 04 p0493 N84-13237
Plasma polymerized high energy density dielectric films for capacitors
[NASA-CR-168233] 04 p0505 N84-13310
The gaseous and plasma environment around space shuttle
[AD-A133900] 05 p0643 N84-14231
Study of the physics of insulating films as related to the reliability of metal-oxide semiconductor devices
[AD-A133674] 05 p0754 N84-14944
Non-equilibrium X-ray emission from young supernova remnants
05 p0765 N84-15019
Effects of small-scale plasma disturbance on the IKB-1300 spacecraft potential
[PR-839] 08 p1109 N84-17208
Nonlinear mode coupling theory of the lower-hybrid-drift instability
[AD-A135538] 08 p1187 N84-17734
Interdisciplinary study of directional discontinuities in the solar wind with ISPM
09 p1263 N84-18242
Anomalous transport in current sheets
[AD-A136030] 09 p1378 N84-19002
Relativistic broadening near cyclotron resonance
[AD-A136224] 09 p1391 N84-19084
NRL (Naval Research Laboratory) plasma formulary, revised
[AD-A135787] 09 p1391 N84-19086
Chatanika radar and S3-2 measurements of auroral-zone electrodynamics in the midnight sector
[AD-A137947] 11 p1644 N84-20748
Radical and ion molecule mechanisms in the polymerization of hydrocarbons and chlorosilanes in RF plasmas at low pressures (1.0 torr)
[NASA-TM-83602] 11 p1736 N84-21329
Research continues with Intercosmos-Bolgariya-1300 satellite
12 p1775 N84-21577
Neoclassical current studies in high beta plasmas
[DE84-005052] 12 p1910 N84-22445
Thermal characteristics of plasma reactors with cylindrical and conical multijet mixing chambers
13 p1970 N84-22788
Spectroscopic measurements of the Laser-HANE plasma
[AD-A138685] 13 p1995 N84-22947
An exactly solvable model for ideally polarizable interfaces
[AD-A138719] 13 p2033 N84-23182
The ideally polarizable interface: A solvable model and general sum rules
[AD-A138720] 13 p2036 N84-23207
On the plasma physics on the beam plasma discharge
[AD-A139265] 14 p2228 N84-24361
Scaling of the beam plasma discharge for low magnetic fields
[AD-A139415] 14 p2229 N84-24363
Microwave discharges in capillary tubes
[LP-203] 16 p2558 N84-26410
Extragalactic radio sources
[NASA-CR-173606] 16 p2582 N84-26557
Collective mode of evolution of plasma produced by optical breakdown in aerosol medium
17 p2831 N84-28628
High power fast pulse lasers
17 p2673 N84-27033
Studies of some plasma instabilities in space physics
17 p2766 N84-27582
Analysis of the influence of nonlinear and dissipative effects in atmospheric plasma
[ISSN-0208-5658] 19 p3106 N84-29732
Studies of amplifier module in Delfin Facility for heating thermonuclear plasma
20 p3289 N84-30681
Impurity characteristics of TMX-U
[DE84-012413] 20 p3297 N84-30932
The influence of the relativistic character of the electron HF motion on the non-linear wave dynamics in plasmas
[IPPJ-676] 20 p3301 N84-30964
Formation of spatial Alfven resonance and global modes in an inhomogeneous plasma
[IPPJ-674] 20 p3302 N84-30966
Electron cyclotron radiation from mirror-confined plasma
[DE84-008665] 20 p3302 N84-30970
Mixed mode operation in CTX
[DE84-007493] 20 p3304 N84-30985
Microstability theory for distributions separable in energy and pitch angle
[DE84-009683] 20 p3305 N84-30991
Density variation due to wave heating in Tokamak plasmas
[DE84-009402] 20 p3305 N84-30993
RF-induced stability and transport in axisymmetric tandem mirrors
[DE84-010642] 20 p3306 N84-30999
Nonlocal heat transport by non-Maxwellian electrons
[DE84-012391] 20 p3306 N84-31000
Interaction of the precessional wave with free-boundary Alfven surface waves in tandem mirrors
[DE84-012527] 20 p3307 N84-31003
Fractional quantization of the Hall effect
[DE84-008894] 20 p3310 N84-31023
A rocket-borne Langmuir probe for in-situ measurement of ionospheric plasma
[INPE-3206-PRE/564] 21 p3349 N84-31244
Research Reports of the Faculty of Engineering, no. 31
[DEC/1983/31] 21 p3476 N84-32034
Ion-molecule reactions and plasma parameters of positive column in oxygen glow discharge
21 p3476 N84-32036
Heat transfer by radiation in hydrogen plasma
21 p3488 N84-32106
Second harmonic electron cyclotron emission studies of Tokapole-2 plasmas
[DE84-013103] 21 p3502 N84-32193
Thermal instabilities in the edge region of reversed-field pinches
[DE84-013861] 22 p3659 N84-33196
Plasma dynamics
22 p3683 N84-33354
Electromagnetic wave propagation in magnetoionic media
[INPE-3189-PRE/553] 23 p3730 N84-33640
Green's function for a plane waveguide formulated with electronic plasma
[ISSN-0208-5658] 23 p3826 N84-34265
Electrostatic equations for large scale plasma simulation studies
[AD-A143640] 23 p3826 N84-34277
A users guide to KLYSMA 2: A multifluid transport code
[AD-A143784] 23 p3826 N84-34278
A proposed technique for creation and detection of hot electron ionization and gain effects in a laser-produced tin plasma
[AD-A144025] 23 p3826 N84-34281
Nonlinear effects in electron cyclotron resonance heating of plasmas
[INPE-3233-PRE/583] 24 p3964 N84-35103
Plasma heating, confinement and stabilization experiments in axisymmetric mirror-cusp device
[IPPJ-690] 24 p3965 N84-35106

PLASMASPHERE
Some characteristics of midlatitude F layer storms generated by thermosphere-plasmasphere coupling processes
02 p0251 N84-11645
A study of the large-scale structure of the plasmasphere using extreme ultraviolet observations
02 p0306 N84-12009
Magnetospheric plasma studies using data from the dynamics high and low altitude plasma instruments
[AD-A131793] 03 p0408 N84-12670

A study of plasmaspheric density distributions for diffusive equilibrium conditions
[AD-A132643] 05 p0703 N84-14615
Whistler mode interactions and plasma sheet electrons
[AD-A134327] 07 p0993 N84-16436
The plasma sheet boundary layer
[AD-A137399] 10 p1537 N84-20069
Data reduction and analysis for ISEE-A and -B energetic particles flux experiment and ISEE-C electron and X-ray experiments
[NASA-CR-175220] 11 p1760 N84-21486
Generation of broadband electrostatic noise by ion beam instabilities in the magnetotail
[NASA-CR-173643] 17 p2728 N84-27362
Plasma and magnetospheric research
[NASA-CR-171080] 19 p3053 N84-29374
Effect of the density of ionized particles on the plasma response in the plasmosphere
[ISSN-0208-5658] 19 p3106 N84-29733
Electron velocity distributions near collisionless shocks
[DE84-011352] 20 p3185 N84-30235
Geophysical plasmas and atmospheric modeling
[AD-A142573] 20 p3240 N84-30572
The Earth's radiation belts
[AD-A142673] 20 p3241 N84-30574
Plasma and magnetospheric research
[NASA-CR-171157] 23 p3827 N84-34275

PLASMOIDS
U PLASMAS (PHYSICS)

PLASMONS
Absolutely unstable stimulated Brillouin scattering and 2-plasmon decay
[DE84-000623] 04 p0611 N84-14032
Laser-induced surface migration via surface plasmons
[AD-A136436] 09 p1321 N84-18633
Surface plasmon-enhanced Raman scattering at thin silver films
[AD-A136321] 12 p1793 N84-21691
The potential dependence of surface plasmon-enhanced second harmonic generation at thin film silver electrodes
[AD-A136322] 12 p1793 N84-21692
Wavelength scaling of the two plasmon decay and stimulated Raman scattering instabilities
[DE84-008934] 18 p2847 N84-28077
Plasmon device design: Conversion from surface to junction plasmons with grating-couplers
19 p3047 N84-29330
Interactions between volume and surface EM waves in layered structures 19 p3047 N84-29331
Experiments and theory on half-harmonic light and 2-plasmon decay
[DE84-008945] 20 p3193 N84-30276
A new model of Raman spectra in laser produced plasma
[DE84-009625] 21 p3501 N84-32186

PLASTERS
NT GYPSUM
Response of a plaster-wood room subjected to simulated sonic booms
[UTIAS-276] 21 p3421 N84-31701

PLASTIC ANISOTROPY
NT ELASTIC ANISOTROPY
Development of the texture and plastic anisotropy in steels upon hot rolling, transformation and cold rolling
[BMFT-FB-T-83-219] 10 p1463 N84-19559
An expression of strain energy involving couple stresses in solids 15 p2313 N84-24880

PLASTIC COATINGS
An evaluation of polymer coatings for the promotion of dropwise condensation of steam
[AD-A144018] 23 p3725 N84-33602
Encapsulated multifunction corrosion inhibitive primer
[AD-A144311] 24 p3889 N84-34626

PLASTIC DEFORMATION
Deformation studies in workable superalloys
[AD-A131606] 02 p0194 N84-11260
A study of plastic flow localization and other instability phenomena in rate-sensitive ductile solids
02 p0230 N84-11510
Elastic-plastic analysis of annular plate problems using NASTRAN
[AD-A131293] 02 p0231 N84-11518
Analysis of nonuniform deformation in ductile single crystals 02 p0297 N84-11951
Cold sintering: A new powder consolidation process
[AD-A131667] 03 p0353 N84-12292
Microstructural origins of hot spots in RDX explosive and several reference inert materials
[AD-A132056] 03 p0357 N84-12325
Plastic deformations of a portable frame under short pulse loading on one column by an approximate method including effects of elasticity and plastic rate sensitivity
03 p0387 N84-12521
The Dugdale model for the compact specimen
[NASA-TM-85714] 03 p0388 N84-12529
Hamiltonian for antisotropic bodies with defects
[ISSN-0208-5658] 03 p0451 N84-12966
Deformation and fatigue of aircraft structural alloys
[AD-A133947] 05 p0854 N84-14297
The measurement of large strains with foil resistance strain gages
[AD-A133687] 05 p0685 N84-14500
A microscopic analysis of brittle fracture in deformable solids 05 p0691 N84-14537
Plastic flows of tubes and blocks
06 p0833 N84-15421
Basic research on macromolecular dynamics
[PB84-123538] 09 p1289 N84-18417
Metal formability in bulk deformation processes
09 p1293 N84-18446
Calculations for uniaxial stress and strain cycling in plasticity
[AD-A135800] 09 p1332 N84-18698
Inelastic deformation of metals and structures under dynamic and quasi-static cyclic loading
[AD-A136022] 09 p1332 N84-18700
Some remarks on rate-dependent plasticity
[AD-A136084] 09 p1333 N84-18704
Critical current of the dispersion superconducting phase, obtained during aging
[AD-A136024] 09 p1396 N84-19118
The evolution of spectral techniques in Navy shock design 10 p1508 N84-19871
Dynamic compaction of ceramic materials
[AD-A137257] 11 p1638 N84-20708
The analysis of elastic-plastic deformation and stress at finite strain and their evaluation
[AD-A137931] 11 p1669 N84-20887
Specifics of processes of deformation and microfracture of amorphous iron-based alloys
12 p1788 N84-21662
Influence of microplastic deformations on spheroidization of cementite in steel
[BLL-M-35503-(5828.4)] 12 p1795 N84-21711
Analytical determination of resistance of aluminium alloys to deformation
[BLL-M-35476-(5828.4)] 12 p1796 N84-21714
Plastic deformations near a rapidly propagating crack tip
[AD-A138273] 12 p1826 N84-21907
Stressed-strained state of flanged shells under heavy thermal load beyond elastic limit
13 p1972 N84-22800
A probabilistic theory for the strength of discontinuous fibre composites 15 p2308 N84-24848
Results of a study of residual stresses and fatigue crack growth in lugs with expanded holes
[NLR-MP-83024-U] 15 p2349 N84-25100
Analysis of deformation and stresses near cold worked holes
[NLR-TR-82113-U] 15 p2349 N84-25101
Plastic deformation of ice single crystals containing inclusions 15 p2353 N84-25114
Deformation of bimetallic bicrystals of Alpha-Ti/Beta-Ti-13Mn
[AD-A140263] 16 p2469 N84-25822
Study of low temperature plastic deformation mechanisms of alpha-titanium single crystals
[ONERA-NT-1983-7] 16 p2560 N84-26422
Experimental verification of constitutive equations for plasticity under biaxial, cyclic and nonradial loading conditions — of austenitic steel
[REPT-5011202-81-1] 17 p2625 N84-26798
Prediction of ductile crack growth in the austenitic steel WN 1.4948 at ambient and elevated temperature
[REPT-5011202-81-2] 17 p2625 N84-26799
Elastoplastic double-wall shells under intricate nonisothermal load 17 p2651 N84-26951
A new second order accurate finite difference method for dynamic response of elastic-plastic finite deformation problems 17 p2678 N84-27056
A material model for reverse yielding and its application to torsion
[AD-A140897] 17 p2680 N84-27071
The determination of the Bodner material coefficients for indium 718 and their effects on cyclic loading
[AD-A141174] 18 p2814 N84-27861
Experimental aspects of the study of stress generating mechanisms in silicon sheet growth
18 p2938 N84-28635
Acoustic emission accompanying phase change in deformed 1H18N9T steel
[ISSN-0208-5658] 19 p2991 N84-28952
Identification of strain-softening properties and computational predictions of localized fracture
[AD-A141866] 19 p3036 N84-29258
A theory of rate-dependent plasticity
[AD-A142102] 19 p3036 N84-29260
Effects of water-vapor on friction and deformation of polymeric magnetic media in contact with a ceramic oxide
[NASA-TM-83727] 20 p3161 N84-30072
Elastic-plastic deformation of pulse-loaded structures
[AD-A142350] 20 p3202 N84-30339
Use of theory of systems with dispersed parameters to formulate deformation resistance equations in pressure working of metals: Communication 2
[BLL-M-35595-(5828.4)] 21 p3363 N84-31337
Superplasticity in thermomechanically processed high magnesium aluminum-magnesium alloys
[AD-A143164] 21 p3366 N84-31358
The effect of finite rotation on a problem in plastic deformation
[DE84-012627] 21 p3423 N84-31710
Distribution of micro-heterogeneous deformation in C6Yu steel around inclusions during compression
[BLL-M-35641-(5828.4)] 22 p3553 N84-32498
Plasticity of large-grain titanium alloy type VT30 in the beta area 23 p3708 N84-33508
Microscopic studies of accelerated destruction of plastic contact in kinematic pairs from different metals
[ISSN-0208-5658] 23 p3716 N84-33554
The effect of thermomechanical coupling in the case of a thick-wall sphere and tube subjected to internal pressure
[ISSN-0208-5658] 23 p3759 N84-33823
Generation of reactive stresses in TiNi alloy
24 p3875 N84-34556
Study of specifics of formation of stress and strain in making circular welded joints in aluminum alloy envelopes 24 p3876 N84-34560

PLASTIC FILMS
U POLYMERIC FILMS

PLASTIC FLOW
NT TRESCA FLOW
A method of solving ductility theory problems
[BLL-M-35125-(5828.4)] 01 p0093 N84-10607
Deformation studies in workable superalloys
[AD-A131606] 02 p0194 N84-11260
A study of plastic flow localization and other instability phenomena in rate-sensitive ductile solids
02 p0230 N84-11510
Numerical simulation of plastic fluids
[DE83-007911] 03 p0372 N84-12424
Plastic flows of tubes and blocks
06 p0833 N84-15421
Stress-state index and Nadai-Lode parameter
[BLL-M-35433-(5828.4)] 08 p1169 N84-17612
Failure by creep cracking and creep fatigue interaction in nickel base superalloys
[AD-A141112] 19 p2993 N84-28967

PLASTIC MATERIALS
U PLASTICS

PLASTIC MEMORY
Volume recovery in glasses: A free-volume diffusion process
[DE83-013771] 06 p0811 N84-15280

PLASTIC PROPELLANTS
Synthesis and properties of trisubstituted trinitrobenzenes. TATB analogs
[AD-A131619] 02 p0203 N84-11322
Tensile properties of plastic propellant ICP 200-P129 with CIS 1.4 polyisoprene
[INTA-NT-N-223/410/83.038] 18 p2821 N84-27913

PLASTIC PROPERTIES
NT ELASTOPLASTICITY
NT SUPERPLASTICITY
NT THERMOPLASTICITY
NT VISCOPLASTICITY
NT YIELD POINT
Research and development program for the development of advanced time-temperature dependent constitutive relationships. Volume 2: Programming manual
[NASA-CR-168191-VOL-2] 01 p0094 N84-10614
Advanced experimental techniques in crack tip analysis
[AD-A130719] 01 p0095 N84-10618
Factors affecting plastic instability and sheet formability
[DE83-011146] 01 p0097 N84-10631
Evaluation of the kinematic variable (back stress) response of metals
[DE83-008381] 03 p0353 N84-12293
A pressure-shear experiment for studying the dynamic plastic responses of metals at shear strain rates of 10 to the 5th power s(-1) 03 p0387 N84-12519
Yield surface for bars including warping restraint
[AD-A131393] 03 p0388 N84-12533
Endochronic theory of dynamic viscoplasticity
[DE83-017531] 03 p0390 N84-12546
Numerical analysis of stable crack growth in elastic-plastic materials in small scale and general yielding 03 p0391 N84-12549

Computational models for cyclic plasticity, rate dependence and creep in finite element analysis
[PB83-245829] 04 p0505 N84-13308
Generalized plastic hinge concepts for 3D beam-column elements
[PB83-247981] 04 p0516 N84-13391
Welding deformations and residual stresses due to circumferential welding of cylindrical shells and hemispherical end plates
[DRIC-T-6968] 04 p0547 N84-13602
Degradation of fracture toughness in steels due to prior strain: A predictive model
[AD-A132600] 05 p0654 N84-14300
A comprehensive numerical study and experimental verification of endochronic plasticity
06 p0856 N84-15579
Some inelastic effects of thermal cycling on yttria-stabilized zirconia
[NASA-TM-83488] 07 p1001 N84-16492
Heron, volume 28, no. 1, 1983. Dynamic elasto-plastic model for reinforced concrete members
[PB84-109057] 08 p1172 N84-17635
Calculations for uniaxial stress and strain cycling in plasticity
[AD-A135800] 09 p1332 N84-18698
Some remarks on rate-dependent plasticity
[AD-A136084] 09 p1333 N84-18704
Applicability of Hart's state variable model to large strain rate ranges
[DE84-004878] 10 p1462 N84-19549
Biaxial tension tests of HERF 304L stainless steel
[DE84-006205] 11 p1634 N84-20685
An investigation of the structure and high temperature mechanical properties of oxide dispersion strengthened alloys
[AD-A139359] 14 p2128 N84-23756
Constitutive models for static and dynamic response of geotechnical materials
[AD-A139293] 14 p2134 N84-23790
Stress distribution in a cylindrical bar subjected to cyclic torsional loading
[AD-A139413] 14 p2158 N84-23929
Plasticity of laminated composites
15 p2308 N84-24849
Studies of elastic-plastic response under high pressure shock loading 15 p2316 N84-24900
Investigation of ice dynamics in the marginal zone
[AD-A138558] 15 p2374 N84-25243
Some thoughts on the subject of dynamic elastic-plastic analyses of rapid crack propagation and crack arrest
[AD-P003116] 16 p2469 N84-25821
Experimental verification of constitutive equations for creep and the interaction of creep and plasticity under biaxial loading conditions
[REPT-5011202-81-3] 17 p2625 N84-26800
Method for solving variation problems of plasticity theory — metal working
[BLL-M-35555-(5828.4)] 17 p2676 N84-27047
Materials Research Laboratory report
[AD-A140898] 17 p2789 N84-27580
Methods of analyzing processes of plastic working of metal, part 1 19 p2990 N84-28948
Methods of analyzing processes of plastic working of metal, part 3 19 p2990 N84-28949
Methods of analyzing processes of plastic working of metal, part 2 19 p2990 N84-28950
Methods of analyzing processes of plastic working of metal, part 4 19 p2991 N84-28951
The electroplastic effect in metals
[AD-A141526] 19 p2994 N84-28971
A theory of rate-dependent plasticity
[AD-A142102] 19 p3036 N84-29260
Modeling the behavior of type 304 stainless steel with a unified creep-plasticity theory
21 p3417 N84-31672
Simplified approach to two-dimensional cyclic plasticity problems
[CETIM-11-B-110] 21 p3424 N84-31718

PLASTIC YIELDING
U PLASTIC DEFORMATION

PLASTICITY
U PLASTIC PROPERTIES

PLASTICIZERS
Rubber mixture softener: A product of thermal breakdown of substandard polyisoprene
[CSIR-TRANS-1649] 01 p0048 N84-10311
Mass spectrometric decomposition studies on several azido and nitrato polymers, thermal plasticizers and novel nitramines
[AD-A134636] 08 p1137 N84-17396
The effect of plasticizer on the polarizer of Poly(vinylidene fluoride) films
[AD-A140770] 17 p2626 N84-26806
Flow properties of concentrated suspensions
[NASA-TM-77431] 19 p3021 N84-29154
Synthesis of diazidodiesters 20 p3143 N84-29956

PLASTICS
NT ACRYLIC RESINS
NT ADDITION RESINS
NT CARBON FIBER REINFORCED PLASTICS
NT EPOXY RESINS
NT FURAN RESINS
NT KEVLAR (TRADEMARK)
NT NYLON (TRADEMARK)
NT PHENOLIC RESINS
NT POLYAMIDE RESINS
NT POLYBUTADIENE
NT POLYESTER RESINS
NT POLYETHER RESINS
NT POLYETHYLENES
NT POLYMETHYL METHACRYLATE
NT POLYPROPYLENE
NT POLYSTYRENE
NT POLYTETRAFLUOROETHYLENE
NT POLYVINYL ALCOHOL
NT POLYVINYL CHLORIDE
NT POLYVINYL FLUORIDE
NT REINFORCED PLASTICS
NT SYNTHETIC RESINS
NT TEFLON (TRADEMARK)
NT THERMOPLASTIC FILMS
NT THERMOPLASTIC RESINS
NT THERMOSETTING RESINS
NT VINYL COPOLYMERS
NT VITON
Performance of the perfluorocarbon liquid/plastic film capacitor technology in repetitive discharge pulse power service
[DE83-012502] 01 p0073 N84-10477
Dielectric breakdown of MXB-71 phenolic and Sylgard 184/GMB silicone at high temperature
[DE83-016768] 02 p0201 N84-11312
The performance of the perfluorocarbon liquid/plastic-film capacitor technology in pulse-power service. A current status report
[DE83-014606] 03 p0369 N84-12402
The effect of moisture on the physical and durability properties of methyl methacrylate polymer concrete
[DE83-016733] 03 p0390 N84-12541
Bound and free moisture in explosives and plastics
[DE84-001402] 04 p0509 N84-13339
Plane stress crack-line fields for crack growth in an elastic perfectly-plastic material
[AD-A134868] 08 p1171 N84-17630
Basic research on macromolecular dynamics
[PB84-123538] 09 p1289 N84-18417
Fabrication and evaluation of a high density multi fiber plastic connector 11 p1720 N84-21223
Longitudinal waterblocking performance of conductive and non-conductive waterswellable nonwovens
11 p1721 N84-21225
Polymer Science and Standards Divisions report, 1983
14 p2130 N84-23773
Status of understanding for gear materials
15 p2342 N84-25061
Research and development on the encapsulation of solar cells with improved potting and cover materials
[BMFT-FB-T-83-309] 15 p2363 N84-25175
The effects of moisture on fracture toughness and thermal relaxation of stretched acrylic plastics
[AD-P003197] 17 p2591 N84-26610
Damage thresholds of fused silica, plastics and KDP crystals measured with 0.6-ns 355-nm pulses
[DE84-009534] 18 p2847 N84-28080
Plastic rotating bands, obturators and sabots — obturators and sabots
[FOA-C-20534-D2] 19 p2996 N84-28985
An explosive ordnance disposal protective suit
[AD-D011072] 19 p3071 N84-29483
Characterization of the microstructures of various materials
[AD-A141946] 20 p3152 N84-30017
Computer-Aided Engineering (CAE) in plastics technology
[CSIR-TRANS-1725] 21 p3370 N84-31380

PLASTISOLS
NT SMOKE

PLATE (METAL)
U METAL PLATES

PLATE THEORY
Bending of beams, plates and laminates: Refined theories and comparative studies
05 p0691 N84-14540
A critical evaluation of new plate theories applied to laminated composites
[AD-A137789] 11 p1666 N84-20683

PLATEAUS
NT BUTTES
NT COLORADO PLATEAU (US)
NT PIEDMONTS

Forming of magnetic fields with complex law of variation in time
[AD-A131128] 02 p0287 N84-11879
Structural studies of the northwest Iberian continental margin using long-range side-scan sonar
[IOS-161] 15 p2366 N84-25106
Geomorphology and hydrogeology of the Edwards Plateau karst, central Texas 23 p3796 N84-34071

PLATES
Fatigue crack growth rate data for aluminum alloy 6061-t651 plate
[AD-A140325] 16 p2469 N84-25824
Delamination growth analysis in quasi-isotropic laminates under loads simulating low-velocity impact
[NASA-TM-85819] 18 p2809 N84-27833
Solar tests of aperture plate materials for solar thermal dish collectors 18 p2872 N84-28233
Postbuckling behavior of graphite-epoxy panels
20 p3146 N84-29976
Solving crack problems with analytical techniques and the finite elements method
[BLL-RISLEY-TR-4940-(9091.9F)] 20 p3200 N84-30325
Thermoacoustic couple
[DE84-011296] 20 p3291 N84-30895
A shear deformable shell element for laminated composites 21 p3420 N84-31691
Nonlinear finite element analysis of shells with large aspect ratio 21 p3420 N84-31692

PLATES (STRUCTURAL MEMBERS)
NT ANISOTROPIC PLATES
NT ANNULAR PLATES
NT CANTILEVER PLATES
NT CIRCULAR PLATES
NT CORRUGATED PLATES
NT ELASTIC PLATES
NT END PLATES
NT METAL PLATES
NT ORTHOTROPIC PLATES
NT PERFORATED PLATES
NT POROUS PLATES
NT RECTANGULAR PLATES
NT REINFORCED PLATES
Limit analysis of plates by a finite element approach
01 p0093 N84-10604
Large plate CdTe synthesis by sealed vessel transport
[AD-A130947] 01 p0153 N84-11005
Buckled plate vibrations, large amplitude vibrations and nonlinear flutter of elastic plates using high-order triangular finite elements 03 p0387 N84-12523
Some bifurcation topics in non-linear elastostatics
03 p0387 N84-12524
On the dynamic fracture of bars, beams and plates
03 p0391 N84-12552
Detection of closed internal fatigue cracks
[DE83-017686] 04 p0549 N84-13620
Buckling, postbuckling, and crippling of materially nonlinear composite plates 05 p0644 N84-14239
Geometrically nonlinear analysis of layered anisotropic plates and shells 05 p0695 N84-14562
Nonlinear analysis of thin shells by the hybrid mixed finite-element method 06 p0856 N84-15578
A comprehensive numerical study and experimental verification of endochronic plasticity
06 p0856 N84-15579
An alternative method of analysis for base accelerated dynamic response in NASTRAN
06 p0859 N84-15598
Analysis of plates by the initial-value method
06 p0883 N84-15622
Buckling of rectangular specially orthotropic plates
[ESDU-80023] 07 p1014 N84-16577
On the face-shear vibrations of contoured crystal plates 10 p1511 N84-19891
Surface cracks in a plate of finite width under tension or bending
[NASA-CR-172309] 10 p1516 N84-19926
Optimized bolted joint
[NASA-CASE-LAR-13250-1] 11 p1664 N84-20659
Nonlinear analysis of thin-walled I-sections in bending
[PB84-137918] 11 p1669 N84-20890
Production of porous sheets from metallic powders
[BLL-M-35465-(5828.4)] 12 p1796 N84-21713
Contact stresses in pin-loaded orthotropic plates
[NASA-CR-173475] 12 p1825 N84-21900
Effects of transverse loading on the thickness shear resonance frequencies in crystal plates
13 p2003 N84-22994
Stress-intensity factor equations for cracks in three-dimensional finite bodies subjected to tension and bending loads
[NASA-TM-85793] 14 p2157 N84-23925
Hydrogen attack mechanisms in a 2-1/4 Cr1 Mo welded steel 16 p2464 N84-25789

A plate impact experiment for studying crack initiation at loading rates K(I) approximately 10(8) MPa m/s
[AD-P003103] 16 p2466 N84-25806
On crack paths
[AD-P003110] 16 p2468 N84-25815
Crack branching, crack arrest and rapid tearing
[AD-P003112] 16 p2468 N84-25817
A nonlinear model of laminated plate, using combined variables 16 p2476 N84-25875
A modified modal method for nonlinear dynamic analysis of structures 16 p2501 N84-26052
An interpretive study of plate and shell buckling
[AD-A140487] 16 p2502 N84-26062
Turbulent boundary layer at plate with suction at various angles 17 p2648 N84-26938
Material damage and structural instability analysis: Local and global stationary values of the strain energy density function 17 p2678 N84-27057
The design of a test procedure for the measurement of acoustic damping materials at low stress
[AD-A132701] 18 p2853 N84-28113
Shock wave absorber having apertured plate
[DE84-011271] 20 p3203 N84-30345
Modal parameter estimation via shaker versus speaker excitation
[DE84-012897] 21 p3345 N84-31223
A finite element model for the analysis and optimal design of beams and plates with variable flexural rigidity 21 p3417 N84-31668
Compound strip methods for the analysis of continuous elastic plates 21 p3417 N84-31670
Temperature derivatives of elastic stiffnesses and frequency-temperature behavior of quartz crystal plates 21 p3418 N84-31675
Calculation of thermal stress state for components of metallurgical equipment by electric simulation
[BLL-M-35690-(5626.4)] 22 p3608 N84-32660
Dynamic characteristics of heat exchanger tubes vibrating in a tube support plate inactive mode
[DE84-014844] 23 p3761 N84-33840
Planning of plates reinforced with equally stressed fibers of constant cross section 24 p3872 N84-34540
Processing the results of fatigue testing of structural materials damaged by corrosion 24 p3873 N84-34541
Stress analysis of foam sandwich semi-monocoque structures 24 p3958 N84-35061

PLATES (TECTONICS)

Centroid scaling of citation data: Charting the history of a scientific specialty, plate tectonics 01 p0104 N84-10673
On gravity from SST, geoid from SEASAT, and plate age and fracture zones in the Pacific
[E84-10025] 02 p0238 N84-11559
Stressing processes associated with great crustal earthquakes at plate boundaries 02 p0246 N84-11612
Geoid anomalies and fracture zones in the Pacific Ocean
[E84-10052] 05 p0696 N84-14572
Comments on conventional terrestrial and quasi-inertial reference systems 07 p1029 N84-16669
Seamount paleomagnetism and Pacific plate tectonics 11 p1677 N84-20943
The Marine Geology Program of the US Geological Survey
[USGS-CIRC-906] 11 p1677 N84-20944
Cenozoic tectonics of the Caribbean: Structural and stratigraphic studies in Jamaica and Hispaniola 13 p2013 N84-23062
Sedimentary response to eocene tectonic rotation in western Oregon 13 p2013 N84-23063
New maps of Lakshmi Planum and eastern Aphrodite, Venus 13 p2077 N84-23457
Paleomagnetic studies in Antarctica 14 p2162 N84-23950
Discussion of the design of satellite-laser measurement stations in the eastern Mediterranean under the geological aspect. Contribution to the earthquake prediction research by the Wegener Group and to NASA's Crustal Dynamics Project
[NASA-TM-77412] 14 p2175 N84-24031
Correlation of tectonic provinces of South America and the Caribbean region with MAGSAT anomalies 15 p2355 N84-25130
Satellite elevation magnetic and gravity models of major South American plate tectonic features 15 p2355 N84-25131
Geophysical and tectonic characteristics of Mongolian-Okhotsk seismic zone 17 p2701 N84-27206
Seismic tomography of the Earth's interior 18 p2879 N84-28278
Update: San Andreas Fault experiment 20 p3220 N84-30458
Seismicity and crustal structure studies of southern California: Tectonic implications from improved earthquake locations 21 p3439 N84-31819
Convergence tectonics of the Peru Trench: 8 deg S - 15 deg S latitude 21 p3440 N84-31824
Seismological studies of the continental lithosphere
[PB84-194752] 21 p3446 N84-31862
Geophysical interpretation of satellite laser ranging measurements of crustal movement in California
[NASA-TM-86148] 24 p3919 N84-34808
Andean tectonics: Implications for Satellite Geodesy
[NASA-TM-86160] 24 p3919 N84-34809

PLATFORMS

STEP Experiment Requirements
[NASA-CP-2294] 08 p1109 N84-17211
Space Technology Experiments Platform (STEP) overview 08 p1109 N84-17212
STEP mechanical systems 08 p1109 N84-17213
STEP electronic system design 08 p1109 N84-17214
STEP experiment integration 08 p1109 N84-17215

PLATING

NT ELECTROPLATING
NT ION PLATING
NT NICKEL PLATE
Ion plating in corrosion protection
[DE84-001182] 06 p0807 N84-15256
Utilization of selective mass transfer for increasing performance capability of hinges subject to heavy loads 17 p2641 N84-26898
Electroless-plating technique for fabricating thin-wall convective heat-transfer models
[NASA-TP-2349] 21 p3399 N84-31561
Laser beam technology promoting high speed and selective plating processes
[AD-A143715] 23 p3754 N84-33797

PLATINUM

Development of alternate silicone potting compounds. Volume 11: Influences of temperature, material variables and composition variables on the properties of substitute potting compounds
[DE83-013025] 01 p0051 N84-10326
Recycling of noble metals in connection with electrochemical processes
[BMFT-FB-T-83-140] 02 p0192 N84-11245
The electrochemical behaviour of titanium platinum alloys in anodic oxidation processes. 1: Kinetics and selectivity of the process of the combined formation of O2, H2S2O6 and O3 on the titanium-platinum alloy
[BLL-OA-TRANS-3093-(6196.3)] 06 p1128 N84-17336
Structural and electrochemical properties of platinum-titanium laser surface alloys 06 p1129 N84-17346
Scattering distribution characteristics of rare gases reflected from metal surface with absorbed gas molecules
[NAL-TR-761] 09 p1394 N84-19101
AC measurements on fuel cells and fuel cell components 11 p1741 N84-21362
Structure and porosity of electrodeposited platinum: Evaluation of 4 plating methods
[PB84-152933] 14 p2129 N84-23763
Chemical modification of surfaces: The effect of potassium on the chemisorption of molecules on transition metal crystal surfaces
[DE84-008345] 14 p2244 N84-24473
Techniques in high-temperature resistance thermometry. 1: Construction of the NBS-design high temperature platinum resistance thermometer. 2: Toroidal resistor for high-temperature platinum resistance thermometers
[PB84-164110] 17 p2672 N84-27029
Multiple scattering effects in EXAFS (Extended X-ray Absorption Fine Structure): Comparison between theory and experiment for Pt metal
[AD-A142199] 19 p2989 N84-28941
Nuclear magnetic resonance study of the structure of simple molecules adsorbed on metal surfaces: Acetylene on platinum
[DE84-008661] 19 p2996 N84-28981

PLATINUM COMPOUNDS

Inorganic chemistry 06 p0797 N84-15192

PLAYBACKS

Synchronization technique of data recorded on a multichannel tape recorder
[AD-A139570] 14 p2148 N84-23868

PLENUM CHAMBERS

Circuit transmission integrity of plenum cables in a developing fire scenario 11 p1726 N84-21262
Producing a cryogenic gust in an Eiffel type atmospheric wind tunnel with short gust 14 p2095 N84-23589
Sonic levitation apparatus
[NASA-CASE-MFS-25828-1] 18 p2928 N84-28568

PLETHYSMOGRAPHY

NT ELECTROPLETHYSMOGRAPHY
Development of limb volume measuring system
[NASA-CR-171789] 16 p2495 N84-26008

PLEXIGLASS (TRADEMARK)

U POLYMETHYL METHACRYLATE

PLIES

U LAYERS

PLOTTERS

NT X-Y PLOTTERS
Status of auto carto at the Defense Mapping Agency
[AD-A131235] 01 p0101 N84-10653
Utility programs for generating the Hershey character fonts on microcomputers and laboratory plotters
[PB83-220467] 01 p0125 N84-10813
BIZEPS and raster graphics — plotting package 07 p1018 N84-16603
Production of printing originals for multicolor printings using raster plotters working on an electrostatic basis 07 p1018 N84-16604
APPS-4 (Analytical Photogrammetric Processing System-4) remote sensing applications guide
[AD-A134977] 08 p1178 N84-17676
Hewlett-Packard 7221T plotter user's manual
[AD-A135881] 09 p1368 N84-18929
NASTEK: Interactive display of NASTRAN-generated plots
[AD-A138831] 13 p2001 N84-22983
Description of the general utility graphic routines of the HP 1000 F IFSI
[IFSI-83-15] 18 p2922 N84-28534
A computer program designed for contour chart plotting 24 p3959 N84-35068

PLOTTING

Technique for producing a coherent sum of the data from P78-1, F2, and F4 satellites
[AD-A131965] 03 p0340 N84-12210
PLT: A multipurpose plotting package
[DE83-018261] 03 p0419 N84-12735
An analysis of pC-3 micropulsion in the geomagnetic field
[AD-A132443] 04 p0563 N84-13709
Portable FORTRAN contour-plotting subprogram
[DE83-017422] 04 p0582 N84-13846
ANALYSIS/PLOT: A graphics package for use with the SORT/ANALYSIS data bases
[DE83-017886] 04 p0583 N84-13847
The reading of plots in weather and water wave charts
[KNMI-152-BV-10] 10 p1540 N84-20092
Postprocessing for the UCLA climate model 12 p1854 N84-22079
Interactive computer program VISION 4 (visual information system interactive online for FOA 4) for plotting and data analysis
[FOA-C-40182-A3,B2,C2] 15 p2390 N84-25342
GRAPH 2: A digitizing and graph plotting program
[DE84-010747] 20 p3282 N84-30834
METLIB-2: A program library for calculating and plotting atmospheric and oceanic fields
[PB84-205434] 21 p3450 N84-31890

PLOTTING INSTRUMENTS

U PLOTTERS

PLOWED FIELDS

U FARMLANDS

PLSS

U PORTABLE LIFE SUPPORT SYSTEMS

PLUG NOZZLES

Apparatus and method for jet noise suppression
[NASA-CASE-LAR-11903-2] 05 p0742 N84-14873
Experimental investigation of shock-cell noise reduction for dual-stream nozzles in simulated flight comprehensive data report. Volume 1: Test nozzles and acoustic data
[NASA-CR-168336-VOL-1] 14 p2220 N84-24323
Experimental investigation of shock-cell noise reduction for dual-stream nozzles in simulated flight comprehensive data report. Volume 2: Laser velocimeter data, static pressures and shadowgraph photos
[NASA-CR-168336-VOL-2] 14 p2220 N84-24324

PLUGGING

Status of tandem-mirror confinement
[DE83-017369] 03 p0448 N84-12948
Thermal barriers: Their purpose and functioning
[DE83-017365] 03 p0449 N84-12954
TMX-U experimental results
[DE83-016790] 03 p0449 N84-12955
Relationship of regional water quality to aquifer thermal energy storage
[DE84-006849] 14 p2169 N84-23992

PLUGS

A report on superfluid helium flow through porous plugs for space science applications 06 p0930 N84-16043
Vapor-liquid phase separator studies
[NASA-CR-166545] 08 p1156 N84-17527
Effects of a porous plug on orifice induced static pressure error 12 p1764 N84-21507

Experimental study on porous-plug phase separator for superfluid He2
[ISAS-612] 20 p3308 N84-31008

PLUMBANE
U LEAD COMPOUNDS
U METAL HYDRIDES

PLUMES
NT ROCKET EXHAUST
Plume base flow simulation technology
01 p0016 N84-10116
The use of fuel additives to control plume opacity of turbine engine test cells
[AD-A130777] 01 p0053 N84-10339
The development and implementation of techniques to determine the concentrations of environmental pollutants arising from energy production
[DE83-015386] 02 p0244 N84-11599
Infrared characteristics of gas plumes
[AD-A131796] 03 p0349 N84-12269
A study of coherent structures in the near-neutral marine atmospheric boundary layer 03 p0406 N84-12658
Absolute collisional excitation cross section measurements using crossed molecular beams
[AD-A132038] 03 p0432 N84-12830
Recent US progress in fire growth modeling
04 p0511 N84-13354
New relationships for turbulent plumes
[NAL-TR-763] 04 p0532 N84-13495
Characterization of reactants, reaction mechanisms and reaction products leading to extreme acid rain and acid aerosol conditions in southern California
[PB83-252625] 04 p0561 N84-13697
On some flow characteristics of conventional and excited jets
[NASA-TM-83503] 04 p0594 N84-13922
Buckling flow and transition to turbulence in axisymmetric plumes 05 p0682 N84-14486
Inertial Upper Stage (IUS) Solid Rocket Motor (SRM) core flow sampling at high altitudes
[AD-A134997] 08 p1121 N84-17288
Turbulence measurements in plane jets and plumes in crossflow
[PB84-105303] 08 p1160 N84-17554
A model for simulation of a fluctuating plume
[FOA-C-40165-A1(C1)] 08 p1188 N84-17741
Resonance line broadening of alkali metals in pyrotechnic flames
[AD-A135685] 09 p1279 N84-18355
Diffusion of particulate matter and wind speed profile in planetary boundary layer
[AD-A135961] 09 p1345 N84-18790
Turbulence measurements in plane jets and plumes in crossflow 10 p1496 N84-19783
EPA (Environmental Protection Agency) model development for stable plume impingement on elevated terrain obstacles
[PB84-130491] 10 p1533 N84-20038
Relation of urban model performance to stability
[PB84-130418] 11 p1676 N84-20940
Vertical structure and convective dynamics of the equatorial region on Jupiter 11 p1758 N84-21473
Laboratory infrared studies relevant to Io: A satellite to the planet Jupiter
[NASA-CR-173378] 12 p1922 N84-22522
The plumes of IO: A detection of solid sulfur dioxide particles
[NASA-CR-175414] 12 p1922 N84-22523
Heat transfer effects during cold dense gas dispersion
[PB84-162999] 14 p2177 N84-24043
EPA (Environmental Protection Agency) complex terrain model development description of a computer data base from small hill impaction study no. 1, Cinder Cone Butte, Idaho
[PB84-161439] 14 p2182 N84-24072
Effect of shroud geometry on the effectiveness of a short mixing stack gas eductor model
[AD-A132173] 18 p2836 N84-28004
In-stream distribution and hydraulic and ecological effects of volcanic ash from Mount St. Helens eruption
[PB84-169382] 20 p3230 N84-30526
Analytical modeling of random thermal fluctuations in the NORDA (Naval Ocean Research and Development Activity) high-frequency sound scattering facility
[AD-A142520] 20 p3250 N84-30630
Lidar observations of the plumes of incineration ships
23 p3780 N84-33967
Development of a global model for atmospheric backscatter at CO2 wavelengths
24 p3924 N84-34838

PLUNGERS
Constant force friction damper
[NASA-CASE-MSC-20505-1] 13 p1939 N84-22611

PLUTONIUM
NT PLUTONIUM 238
Surface contamination from actinide solutions
[AERE-R-11046] 18 p2816 N84-27879

PLUTONIUM CARBIDES
U PLUTONIUM COMPOUNDS

PLUTONIUM COMPOUNDS
NT PLUTONIUM OXIDES
Space Nuclear-Safety Program
[DE83-016351] 02 p0186 N84-11211

PLUTONIUM ISOTOPES
NT PLUTONIUM 238

PLUTONIUM OXIDES
Space nuclear safety program
[DE84-003558] 12 p1904 N84-22398

PLUTONIUM 238
Space Nuclear-Safety Program
[DE83-016351] 02 p0186 N84-11211
Space nuclear safety program, April 1983
[DE84-002325] 07 p1074 N84-16978
Space nuclear safety program, May 1983
[DE84-002324] 07 p1074 N84-16979
Space nuclear safety program, June 1983
[DE84-003555] 07 p1074 N84-16980

PLUVIOGRAPHS
U RAIN GAGES
U RECORDING INSTRUMENTS

PLY ORIENTATION
INHYD: Computer code for intraply hybrid composite design. A users manual
[NASA-TP-2239] 04 p0491 N84-13224
Fracture behavior of unidirectional boron/aluminum composite laminates
[NASA-CR-3753] 06 p0797 N84-15196
Hygrothermomechanical fracture stress criteria for fiber composites with sense-parity
[NASA-TM-83691] 19 p2985 N84-28918

PLYWOOD
Thermal stress analysis for a wood composite blade — wind turbines
[NASA-CR-173394] 12 p1826 N84-21903

PNEUMATIC CIRCUITS
Measure of mass flow rate in gas-solid two phase fluids; application to pneumatic transport
21 p3403 N84-31590

PNEUMATIC CONTROL
A proportional piezoelectric electropneumatic servovalve design
[AD-A140224] 16 p2499 N84-26031

PNEUMATIC EQUIPMENT
NT PNEUMATIC CIRCUITS
Auxiliary Power Systems
[AGARD-CP-352] 03 p0333 N84-12168
Inflatable device for installing strain gage bridges
[NASA-CASE-FRC-11068-1] 03 p0375 N84-12443
Jet-impact nebulization for sample introduction in inductively coupled plasma spectrometry
[AD-A133152] 06 p0920 N84-15982
Damped pneumatic spring as shock isolator: Generalized analysis and design procedure
10 p1515 N84-19916
Investigation of a pneumatic thrust deflector based on circulation control technology
[AD-A128950] 11 p1652 N84-20784
Optimizing the thrust deflecting surface for the pneumatic thrust deflector
[AD-A140612] 17 p2609 N84-26703
JUH-1H pneumatic boot deicing system flight test evaluation
[AD-A140986] 18 p2793 N84-27725
Automation of a stamping press using sequential hydraulic manipulators
[CETIM-1-4N-090] 21 p3376 N84-31422

PNEUMATIC RESET
U PNEUMATIC CONTROL

POCKELS EFFECT
U BIREFRINGENCE

POIKILOTHERMIA
NT AMPHIBIA
NT FROGS

POINCARE PROBLEM
Relativistic effects in the binding energies of few-body nuclei
[DE83-014711] 02 p0291 N84-11907
Spinorial relativistic rotator: The transformation from quasi-Newtonian to Minokowski coordinates
[DE84-009091] 20 p3282 N84-30839

POINCARE SPHERES
Supersymmetry in physics: An algebraic overview
[DE84-007289] 15 p2399 N84-25395

POINT DEFECTS
NT VACANCIES (CRYSTAL DEFECTS)
Effect of point defects on mechanical properties of metals
[DE83-014989] 01 p0046 N84-10297
Modification of point defects in quartz for device applications
[DE84-002611] 07 p1082 N84-17036
Elastic theory of the defect solid solution
[DE84-001976] 10 p1590 N84-20418
Analysis of anelastic relaxations controlled by a spectrum of relaxation times
[DE84-006014] 12 p1915 N84-22479
Study of defects produced by the growth, post treatment and fabrication of quartz
[AD-A139834] 15 p2413 N84-25485
Carbon, oxygen and their interaction with intrinsic point defects in solar silicon ribbon material: A speculative approach
[NASA-CR-173756] 18 p2870 N84-28221
Defect interactions in GaAs single crystals
19 p3046 N84-29323
Point defects and diffusion mechanisms in the monoxides of the iron-group metals
[DE84-012105] 21 p3505 N84-32210
Nonequilibrium segregation and phase instability in alloy films during elevated-temperature irradiation in a high-voltage electron microscope
[DE84-013423] 21 p3505 N84-32214

POINT IMPACT
SRB/FWC water impact: Flexible body loads test
[NASA-CR-173786] 19 p3021 N84-29156

POINT MATCHING METHOD (MATHEMATICS)
U BOUNDARY VALUE PROBLEMS

POINT SOURCES
The application of multivariate source/receptor models to aerosol mass apportionment
[DE83-014592] 02 p0245 N84-11603
The radiance from an isotropic point source in a multiple scattering medium
[FOA-C-30326-E2] 02 p0295 N84-11935
A computer program for point-surface microwave continuum observation
[REPT-S-141] 15 p2320 N84-24925
Acoustic propagation in a thermally stratified atmosphere
[NASA-CR-173863] 21 p3491 N84-32121
Profile inversion of a planar medium with a line source or a point source 23 p3776 N84-33938

POINT SPREAD FUNCTIONS
Thematic mapper radiometric variability on ostensibly uniform agricultural scenes
[E84-10035] 06 p0864 N84-15826
LANDSAT-4 image data quality analysis
[E84-10158] 17 p2709 N84-27250
The effect of point-spread function interaction with radiance from heterogeneous scenes on multitemporal signature analysis — soybean stress
20 p3211 N84-30400
Characterization of the LANDSAT sensors' spatial responses
[E84-10171] 21 p3426 N84-31734
LANDSAT-4 image data quality analysis — LANDSAT 5 imagery
[E84-10173] 22 p3613 N84-32893

POINTING CONTROL SYSTEMS
NT ANNULAR SUSPENSION AND POINTING SYSTEM
Fine pointing control of the solar UV telescope on the sounding rocket S-520-5
[ISAS-608] 06 p0938 N84-16094
Photovoltaic concentrator pointing dynamics and plasma interaction study 08 p1111 N84-17224
Space Station needs, attributes and architectural options, volume 2, book 2, part 4: International reports
[NASA-CR-173319] 09 p1271 N84-18303
The rapidly moving telescope: An instrument for the precise study of optical transients
09 p1407 N84-19193
Precise control of flexible manipulators
[NASA-CR-175389] 10 p1553 N84-20175
Pointing and tracking of particle beams
[AD-A138311] 12 p1902 N84-22385
Actuator development for the Instrument Pointing System (IPS) 15 p2347 N84-25080
Research in solar physics: Some techniques for analyzing data from the ultraviolet spectrometer and polarimeter
[NASA-CR-171035] 15 p2428 N84-25584
Space station needs, attributes and architectural options study. Volume 7-4B: Data book, architecture, technology and programmatics, part B
[NASA-CR-173685] 18 p2804 N84-27800
The PDS for space telescope guide star selection system: Status and improvements
18 p2840 N84-28032
An integrated, optimization-based approach to the design and control of large space structures
[AD-A141856] 19 p2982 N84-28896
Attitude determination using strapdown inertial sensors and adaptive estimation
[INPE-3180-PRE/545] 21 p3327 N84-31106
Research relative to high energy astrophysics — large area modular array of reflectors, X-ray spectroscopy, and thermal control
[NASA-CR-173878] 22 p3678 N84-33315

Pointing, acquisition and tracking for intersatellite optical data links 24 p3905 N84-34735

POINTS

Effect of polydispersity on the cloud point curves of polymer mixtures [AD-A143159] 21 p3370 N84-31384

POINTS (MATHEMATICS)

NT FIXED POINTS (MATHEMATICS)
NT POINT SPREAD FUNCTIONS

A 3-component system of competition and diffusion [AD-A132980] 05 p0738 N84-14844

Symmetric set theory, a general theory of isomorphism, abstraction, and representation [AD-A133630] 05 p0741 N84-14868

Simple computable bounds for solutions of linear complementarity problems and linear programs [AD-A137849] 11 p1715 N84-21188

The extreme point characterizations of semi-infinite dual non-archimedean balls [AD-A138016] 12 p1883 N84-22350

Morse theory for symmetric functionals on the sphere and an application to a bifurcation problem [AD-A141709] 19 p3087 N84-29596

POISEUILLE FLOW

U LAMINAR FLOW

POISONING (REACTION INHIBITION)

Effects of H2S on molten carbonate fuel cells [DE84-010485] 20 p3234 N84-30531

Chemical poisoning in model heterogeneous reactions [DE84-012461] 21 p3360 N84-31315

POISONING (TOXICOLOGY)

U TOXIC DISEASES

POISONS

NT PESTICIDES
NT URETHANES

POISSON DENSITY FUNCTIONS

Tests for an increasing trend in the intensity of a Poisson process: A power study [AD-A131213] 02 p0285 N84-11867

Tests for and against trends among Poisson intensities [AD-A131212] 02 p0285 N84-11868

Signal detection for same-shape families of non-homogeneous Poisson processes [AD-A135032] 08 p1217 N84-17942

Identification of a class of filtered Poisson processes [AD-A134970] 08 p1221 N84-17989

A single server queue with mixed types of interruptions: Application to the modeling of checkpointing and recovery in a transactional system [EUT-83-E-138] 10 p1574 N84-20315

Poisson integrals of absolutely continuous and other measures [CTH-MATH-1983-10] 13 p2096 N84-23210

The weak stochastic realization problem for discrete-time counting processes [MC-BW-191/83] 17 p2761 N84-27532

The visibility of stationary and moving targets in the plane subject to a Poisson field of shadowing elements [AD-A141305] 18 p2927 N84-28562

Approximating the probabilities of detecting and of hitting targets and the probability distribution of the number of trials along the visible portions of curves in the plane subject to a Poisson shadowing process [AD-A141327] 18 p2927 N84-28563

Regression methods for binomial and Poisson distributed data [DE84-009714] 18 p2927 N84-28564

Detection-filter representations for Markov jump diffusions [NLR-TR-82019-U] 23 p3820 N84-34226

POISSON EQUATION

Solution of Poisson equations for 3-dimensional grid generations — computations of a flow field over a thin delta wing [NASA-TM-85857] 04 p0588 N84-13886

Vectorized multigrid Poisson solver for the CDC CYBER 205 10 p1561 N84-20230

Renormalization theory of stationary homogeneous strong turbulence in a collisionless plasma [DE84-006724] 12 p1910 N84-22443

Solving the Poisson equation on the FPS-164 (Floating Point System-164) [AD-A139307] 14 p2211 N84-24278

Supremum convolutions and Greenian potentials in a special case [CTH-MATH-1983-31] 17 p2759 N84-27522

Random field satisfying a linear partial differential equation with random forcing term [AD-A141886] 19 p3088 N84-29606

Elliptic grid generation for three-dimensional geometries 20 p3168 N84-30117

Lyapunov stability conditions for a relativistic multifluid plasma [DE84-010004] 20 p3303 N84-30973

POISSON PROCESS

U POISSON DENSITY FUNCTIONS
U STOCHASTIC PROCESSES

POISSON RATIO

Composite laminates with negative through-the-thickness Poisson's ratios [NASA-CR-173681] 18 p2809 N84-27830

Mechanical properties of silicone rubber in a closed volume [AD-A138129] 18 p2818 N84-27890

POLAND

East Europe report: Science and technology [JPRS-ESA-84-035] 23 p3813 N84-34178

POLAR AURORAS

U AURORAS

POLAR CAPS

The effects of naturally-occurring propagation disturbances on discrete focused arrays [AD-A132645] 05 p0670 N84-14404

F-layer ionization patches in the polar cap [AD-A136633] 13 p2011 N84-23044

POLAR COORDINATES

The use of reciprocal polar co-ordinates in passive tracking [AD-P002906] 13 p1981 N84-22860

POLAR CUSPS

Plasma and magnetospheric research [NASA-CR-171157] 23 p3827 N84-34275

POLAR METEOROLOGY

Polar glaciology 20 p3218 N84-30445

Proceedings of a Workshop on Polar Stratospheric Clouds: Their Role in Atmospheric Processes [NASA-CP-2318] 22 p3622 N84-32952

POLAR ORBITS

A statistical technique for forecasting severe weather from vertical soundings by satellite and radiosonde [PB84-114099] 08 p1192 N84-17772

Lunar exploration by polar orbiter [NAL-TR-755] 09 p1416 N84-19265

Proceedings of the Air Force Geophysics Laboratory Workshop on Natural Charging of Large Space Structures in Near Earth Polar Orbit [AD-A134894] 16 p2521 N84-26185

Space Shuttle charging results [AD-P002104] 16 p2522 N84-26190

Environmental interactions of polar orbiting satellites [AD-P002110] 16 p2523 N84-26196

Interactions between a large body and its environment in a low polar orbit [AD-P002111] 16 p2523 N84-26197

Shuttle Orbiter charging in polar Earth orbit [AD-P002116] 16 p2524 N84-26202

Summary of experimental results [AD-P002126] 16 p2525 N84-26212

Magnetic roll/yaw attitude control of a momentum biased near polar orbit satellite [MBB-UR-629-83-O] 16 p2561 N84-26432

Piecewise simulaton proton test of gallium arsenide and thin silicon solar cells 19 p3045 N84-29317

Global hydrologic cycle 20 p3217 N84-30434

POLAR REGIONS

NT ANTARCTIC REGIONS
NT ARCTIC REGIONS
NT ROSS ICE SHELF

Large space instrumentation to measure the interaction between space structures and the environment [AD-A129990] 01 p0028 N84-10179

Parametric excitation and suppression of convective plasma instabilities in the high latitude F-region ionosphere [AD-A130652] 01 p0105 N84-10682

Ohmic heating of the polar f-region by HF (High Frequency) pulse [AD-A135946] 09 p1345 N84-18789

Diurnal freeze-thaw frequencies in the high latitude: A climatological guide [AD-A135869] 09 p1349 N84-18812

A quasi-lagrangian diagnostics investigation of rapid cyclogenesis in a polar air stream [AD-A136844] 10 p1540 N84-20091

Chatanika radar and S3-2 measurements of auroral-zone electrodynamics in the midnight sector [AD-A137947] 11 p1644 N84-20748

Effect of high latitude filtering on NWP skill 12 p1852 N84-22066

East Europe report: Scientific affairs [JPRS-ESA-84-010] 12 p1897 N84-22358

A possible source for the Martian circumpolar dune material 13 p2082 N84-23490

Small-scale magnetic features of the polar regions 14 p2162 N84-23949

An overview of charging of large space structures in polar orbit [AD-P002100] 16 p2521 N84-26186

Estimates of precipitating electron power flux from simultaneous DMSP auroral image and ISEE-1 AKR observations [AD-P002109] 16 p2523 N84-26195

Effects of natural light conditions on biorhythms in polar dwellers 18 p2897 N84-28376

HF omnidirectional spectral CW auroral radar (HF-OSCAR) at very high latitude. Part 1: Technique [DMI-GEOPHYS-PAPERS-R-87] 19 p3010 N84-29079

Polar glaciology 20 p3218 N84-30445

Polar research board report, 1983 and future plans [PB84-194315] 21 p3433 N84-31779

Assessment of plasma transport and convection at high latitudes 23 p3837 N84-34343

High latitude ionospheric structure 23 p3837 N84-34344

POLAR WANDERING (GEOLOGY)

A determination and analysis of polar motion 02 p0247 N84-11615

Nonuniformity of the Earth's rotation and the motion of the poles [NASA-TM-77337] 06 p0877 N84-15709

Effects of adopting new precession, nutation and equinox corrections on the terrestrial reference frame 07 p1029 N84-16670

A note on atmospheric effects in the Earth's rotation 07 p1030 N84-16678

Modeling the movement at the polar ice cap at the South Pole 14 p2164 N84-23957

Predictability of the Earth's polar motion [NASA-TM-86095] 14 p2189 N84-23991

Motion of virtual geomagnetic pole 18 p2862 N84-28173

POLARIMETERS

Ultrasensitive optical rotation and refractive-index measurements [DE83-018078] 03 p0442 N84-12903

Spectroradiometric calibration of the thematic mapper and multispectral scanner system [E84-10045] 04 p0552 N84-13638

Visible and infrared continuum spectropolarimetric observations of ten OB supergiant and O emission line stars 05 p0762 N84-14995

Fiber optic sensors [NASA-TM-77404] 14 p2224 N84-24346

Research in solar physics: Some techniques for analyzing data from the ultraviolet spectrometer and polarimeter [NASA-CR-171035] 15 p2428 N84-25584

Spectroradiometric calibration of the Thematic Mapper and Multispectral Scanner system — White Sands, New Mexico [E84-10136] 16 p2506 N84-26084

Development of land based radar polarimeter processor system [NASA-CR-173636] 17 p2652 N84-26960

POLARIMETRY

Videopolarimetry of water surfaces [BMFT-FB-W-83-020] 07 p1075 N84-16990

Morphology and movements of polarization features on Venus [NASA-CR-166464] 08 p1245 N84-18137

Bias in polarimetric estimators — binary stars 09 p1412 N84-19235

Circular polarimetry of the magnetic compact binary AM Herculis 09 p1414 N84-19251

Laser light scattering from density fluctuations in the Culham focus — plasma focus 10 p1584 N84-20383

Polarimetric principles and techniques [AD-A139252] 12 p1805 N84-21766

Polarization utilization in radar target reconstruction: C-wide (Multi-frequency) band relationship of a target's characteristic operators with its unique set of natural eigenfrequencies [AD-A140092] 15 p2321 N84-24938

Infrared polarimetry of young clusters 16 p2572 N84-26505

Infrared polarimetry of young clusters 18 p2950 N84-28704

POLARITONS

NT PLASMONS

Second harmonic generation at thin film silver electrodes via surface polaritons [AD-A143597] 23 p3824 N84-34254

POLARITY

Polarity of the amphibian egg 02 p0263 N84-11731

Monitoring of the Stanford Linac microbunches' position [DE83-012712] 03 p0433 N84-12840

The effect of the solar field reversal on the modulation of galactic cosmic rays 03 p0471 N84-13101

Solar-Geophysical Data, no. 475, March 1984. Part 1: Prompt reports. Data for September 1983, May 1981 [PB84-201508] 22 p3680 N84-33329

Long time behaviour of the interplanetary magnetic field-sectorial structure
[INPE-3222-PRE/573] 24 p3990 N84-35245

POLARIZATION
Polarizing holographic reflector for Electron Cyclotron Resonant Heating (ECRH) on the Tandem Mirror Experiment Upgrade (TMX-U)
[DE84-003740] 08 p1162 N84-17568
Bimetal and multimetal galvanic corrosion prediction using long- and short-term polarization curves
[AD-A139893] 15 p2297 N84-24786
Optical studies of moon rock samples at various degrees of maturity 19 p2975 N84-28861
Properties of polymers: Some uses in electronics, part two
[DE84-012864] 21 p3371 N84-31387
Optical and infrared polarization as a probe of matter near stars 21 p3524 N84-32324
Large amplitude MHD waves upstream of the Jovian bow shock: Reinterpretation
[NASA-TM-86131] 21 p3525 N84-32333
Prospect of polarized targets in electron rings
[DE84-014684] 23 p3823 N84-34245
Elastic scattering of positrons with hydrogen and lithium atoms at intermediate energies
[DE84-701187] 24 p3962 N84-35092

POLARIZATION (CHARGE SEPARATION)
NT DIELECTRIC POLARIZATION
Mathematical models of nonlinear galvanic polarization
[AD-A132403] 04 p0589 N84-13895
Pre-existing polarization and influence of electrode materials on PVF2 electrets as determined by thermal pulse and pyroelectric methods
[AD-A132896] 05 p0659 N84-14335
The effect of gas bubbles and cavity dimensions on the local electrode potential within pits, crevices and cracks
[AD-A134729] 08 p1132 N84-17364
Optimum dimensions of solid zirconium dioxide-base electrolyte in transducer of activity meter 08 p1234 N84-18064
Nonlinear dynamic polarization force on a relativistic test particle in a nonequilibrium beam-plasma system
[AD-A136768] 10 p1577 N84-20331
Electrode polarization studies in hot corrosion systems
[DE84-005485] 11 p1634 N84-20686
The ideally polarizable interface: A solvable model and general sum rules
[AD-A138720] 13 p2036 N84-23207
Ionization of polarized hydrogen atoms
[DE84-007378] 14 p2223 N84-24340
Charge separation on semiconductor surfaces: Basic aspects
[DE84-007214] 14 p2244 N84-24472

POLARIZATION (SPIN ALIGNMENT)
Nucleon-nucleon interactions and polarized-beam (both proton and antiproton) facilities at LAMPF 2
[DE83-017215] 03 p0436 N84-12860
Theory of elementary particles
[DE83-015904] 03 p0437 N84-12871
Physics with polarized beams in e+e(-) colliders
[DE83-016441] 04 p0602 N84-13976
Localized magnetization arising from spin-dependent impurity potentials in the Wolff model
[AD-A133652] 05 p0742 N84-14871
Laser optical pumping of sodium and lithium atom beams 06 p0849 N84-15534
Generation of intense polarized beams by selective neutralization of negative ions
[DE84-007377] 15 p2405 N84-25437
Spin-polarized triplet helium
[NASA-CR-173787] 19 p2987 N84-28929
Detecting optical polarization of nuclei in semiconductors with super-conducting quantum interferometer 20 p3286 N84-30865
New approach to polarized proton scattering based on Dirac dynamics
[DE84-006018] 20 p3296 N84-30926

POLARIZATION (WAVES)
NT CIRCULAR POLARIZATION
NT CROSS POLARIZATION
NT ELLIPTICAL POLARIZATION
NT LINEAR POLARIZATION
Performance of a new 916 MHz direct contact applicator with reduced leakage, a detailed analysis
[PB83-226821] 01 p0114 N84-10742
Theoretical aspects of throat-launch microwave heating in EBT-S
[DE83-015762] 03 p0438 N84-12875
Real time optical interferometric image addition and subtraction by wave polarization
[AD-A134125] 05 p0746 N84-14902
Free electron laser with versatile polarization capability
[DE84-002889] 07 p1011 N84-16557
Morphology and movements of polarization features on Venus
[NASA-CR-166464] 08 p1245 N84-18137
The interpretation of hard X-ray polarization measurements in solar flares
[NASA-CR-172790] 08 p1246 N84-18142
Study of the 13 GHz signal attenuation due to tropical rains
[CRPE-NT-113] 13 p1984 N84-22879
Zeeman coherence effects in absorptive polarization bistability 14 p2235 N84-24412
Polarization bistability in cholesteric liquid crystals 14 p2236 N84-24420
Polarization switching with sodium vapour 14 p2239 N84-24445
Structure in the interstellar polarization curve and the nature of the polarizing grains 16 p2572 N84-26507
Crop moisture estimation over the southern Great Plains with dual polarization 1.66 centimeter passive microwave data from Nimbus 7
[E84-10163] 17 p2710 N84-27255
A search for X-ray polarization in cosmic X-ray sources — binary X-ray sources and supernovae remnants
[NASA-CR-173635] 17 p2781 N84-27657
The influence of stress on the principal polarisation directions of ultrasonic shear waves in textured steel plates
[AERE-R-11078] 18 p2854 N84-28124
Front lighted optical tooling method and apparatus
[DE84-011108] 21 p3406 N84-31602
Linear polarization and total flux density of silicon monoxide masers and active extragalactic objects at millimeter wavelengths 21 p3522 N84-32314
Focusing twist reflector for electron-cyclotron resonance heating in the Tandem Mirror Experiment-upgrade
[DE84-012954] 22 p3578 N84-32663
Modeling the polarization dependence of the attenuation in vegetation canopies — microwave attenuation 23 p3767 N84-33876

POLARIZATION CHARACTERISTICS
NT GYROTROPISM
The cathodic polarization of nickel during precipitation from pure solutions without additions
[BLL-OA-TRANS-3004-(6196.3)] 01 p0043 N84-10275
The cathodic polarization of nickel during precipitation from pure solutions without additions
[BLL-OA-TRANS-3003-(6196.3)] 01 p0043 N84-10276
The polarization and anisotropy on large angular scales of the microwave background radiation in homogeneous cosmologies 02 p0306 N84-12007
Time-resolved laser studies on the energy transfer and the configurational changes in bacteriohodopsin
[DE83-015708] 03 p0382 N84-12487
Polarization effects in the luminescence of cadmium selenide electrodes
[AD-A133951] 05 p0647 N84-14253
The influence of weakly polarized surfaces on different kinds of thin layer systems 06 p0815 N84-15309
Optical flux and polarization spectra compared with radio maps of radio galaxies 06 p0938 N84-16093
Aerosol detection by polarization measurements 10 p1535 N84-20057
Atmospheric millimeter wave propagation model
[PB84-143494] 11 p1645 N84-20754
Polarization radiation in the planetary atmosphere delimited by a heterogeneous diffusely reflecting surface
[NASA-TM-77296] 11 p1731 N84-21292
Defect electrochemistry of oxide electrodes 11 p1742 N84-21364
Programmable masks for optical information processing 12 p1906 N84-22415
Interfering elastic wave components 18 p2862 N84-28170
Polarization of parsexciton luminescence in Cu2O crystals in magnetic field 20 p3287 N84-30870

POLARIZATION CHARTS
U GRAPHS (CHARTS)
U POLARIZATION (WAVES)

POLARIZED ELECTROMAGNETIC RADIATION
NT POLARIZED LIGHT
NT SYNCHROTRON RADIATION
The simplest solar microbursts flux and circular polarization at 22 GHz
[INPE-2970-PRE/436] 07 p1092 N84-17104
Calculation procedures for variational, Born and exact solutions for electromagnetic scattering from two randomly separated dielectric Rayleigh cylinders
[AD-A138543] 13 p1982 N84-22865

POLARIZED LIGHT
Aerosol detection by polarization measurements 10 p1535 N84-20057
Structure in the interstellar polarization curve and the nature of the polarizing grains 18 p2950 N84-28706
The near infrared polarization of NGC 7023 — visual reflection nebula 18 p2950 N84-28707
Nature of polarized vibronic sidebands of biexciton absorption in Alpha-oxygen 20 p3289 N84-30864

POLARIZED RADIATION
NT POLARIZED ELECTROMAGNETIC RADIATION
NT POLARIZED LIGHT
NT SYNCHROTRON RADIATION
Design and fabrication of the BNL radio frequency quadrupole
[DE84-001456] 05 p0671 N84-14409
Real time optical interferometric image addition and subtraction by wave polarization
[AD-A134125] 05 p0746 N84-14902
Use of synchrotron radiation for electron identification at high luminosity 06 p0913 N84-15935
Polarization radiation in the planetary atmosphere delimited by a heterogeneous diffusely reflecting surface
[NASA-TM-77296] 11 p1731 N84-21292
Theoretical models for the polarization of astronomical masers 21 p3522 N84-32313

POLAROGRAPHS
U POLAROGRAPHY

POLAROGRAPHY
Diffusion measurements in microemulsions
[AD-A133601] 05 p0648 N84-14265
Voltammetric studies of Zomepirac sodium and its determination in tablets by differential-pulse polarography
[AD-A138982] 10 p1455 N84-19499

POLES
Algebraic and dynamic characterizations of poles and zeroes at infinity
[MATHS-RES-175] 19 p3091 N84-29626

POLES (SUPPORTS)
Interaction of antennas with masts under special consideration of the sensitivity and nonlinear effects in ship borne receiving systems 03 p0364 N84-12371

POLICIES
NT ENERGY POLICY
NT PATENT POLICY
NT PROCUREMENT POLICY
Scientific-production complexes organized in Georgia 01 p0056 N84-10362
Uzbek scientific intelligentsia under developed Socialism 01 p0056 N84-10365
USSR report: Science and technology policy, no. 18
[JPRS-84484] 01 p0157 N84-11034
Pravda article on inventions elicits response 01 p0158 N84-11040
Sixth all-union congress of inventors held 01 p0158 N84-11043
Science and technology programs discussed 01 p0158 N84-11045
Policy and legal issues involved in the commercialization of space
[GPO-21-495] 01 p0163 N84-11089
Two types of values and their assessment by the collective interest
[DE83-012064] 03 p0460 N84-13031
Air pollution, environmental policy, and economics in the Federal Republic of Germany
[GHK-07] 05 p0701 N84-14601
Improvement needed in the implementation of the United States International Aviation Policy
[GPO-23-934] 07 p1087 N84-17072
The national space program from the fifties into the eighties
[AD-A134799] 08 p1107 N84-17197
USSR report: Space
[JPRS-USP-84-001] 09 p1263 N84-18247
Comment on direct television broadcast by satellite 09 p1265 N84-18260
Zoning for wind machines: A guide for Minnesota communities
[PB84-129568] 10 p1531 N84-20027
Review of the National Aeronautics and Space Act of 1958
[GPO-28-915] 11 p1753 N84-21442
AGARD Highlights, September 1982
[AGARD-HIGHLIGHTS-82/2] 12 p1763 N84-21496
Proceedings of the Conference on Cooperative Climate Services
[PB84-152081] 12 p1863 N84-22137
Fiscal and monetary policy in a general equilibrium model
[AD-A138502] 12 p1920 N84-22510
Intermodulation between v.h.f./f.m. broadcast transmitters and the protection of adjacent-band aeronautical services
[BBC-RD-1984/2] 13 p1975 N84-22819
Project: Acquisition strategy
[AD-P002809] 13 p2059 N84-23355
Use of economic mechanisms in managing scientific and technical progress 13 p2064 N84-23389

Transfer of civil meteorological satellites
[S-REPT-98-260] 14 p2248 N84-24503
Arctic Research and Policy Act of 1983
[GPO-171] 15 p2419 N84-25527
Technology transfer dichotomies
[AD-A140367] 16 p2567 N84-26472
Contract audit followup: Its impact on defense contracting
[AD-A140627] 17 p2770 N84-27587
An analysis of Department of Defense financial and acquisition policies in support of military contingency requirements
[AD-A140820] 17 p2773 N84-27607
An analysis of national aviation policy with respect to America's strategic airlift capability
[AD-A141306] 18 p2946 N84-28679
Definitions of noise and noise pollution
19 p3069 N84-29466
The forecasts of computers and the policy-making of China
[AD-A141557] 19 p3072 N84-29488
Federal Aviation Administration's system for prioritizing airport grants
[PB84-181650] 20 p3133 N84-29893
Policy implications of information technology
[PB84-183219] 20 p3316 N84-31060
National Science Foundation, volume 1
[PB84-193234] 20 p3316 N84-31061
Land Remote-Sensing Commercialization Act of 1984
[H-REPT-98-647] 20 p3318 N84-31063
DMA (Defense Mapping Agency) policy for digital MC and G (Mapping, Charting, and Geodesy) support of advanced systems
[AD-A142746] 21 p3430 N84-31765
Long term policy planning concerning Harderbos (Netherlands)
[REPT-178] 21 p3432 N84-31777
Classification management. Journal of the national classification management society, volume 19, 1983
[AD-A143015] 21 p3516 N84-32286
European scientific notes, Volume 38, Number 7
[AD-A143238] 22 p3674 N84-33287
Notes for medical catalogers, 1983
[PB84-195874] 22 p3675 N84-33296
National Aeronautics and Space Administration Authorization Act, 1985
[PUB-LAW-98-361] 22 p3676 N84-33303
East Europe report: Science and technology
[JPRS-ESA-84-035] 23 p3813 N84-34178
The problem of determining the optimum policy for maintaining systems with spare machines and a number of variable servers
[INPE-3132-PRE/523] 23 p3833 N84-34312
An optimum policy for a system of maintenance with control by a repair time distribution
[INPE-3131-PRE/522] 23 p3833 N84-34313
Master list and index to NASA directives
[NASA-TM-87362] 23 p3834 N84-34321
Worldwide report: Telecommunications policy, research and development
[JPRS-TTP-84-002] 24 p3891 N84-34634
CEMA computer hardware cooperation
24 p3960 N84-35079
Reorganization and creation of Viking
24 p3991 N84-35253

POLISHED METALS
U METAL POLISHING

POLISHING
NT ELECTROPOLISHING
NT METAL POLISHING
The AXAF technology program: The optical flats tests
[NASA-TM-82570] 10 p1578 N84-20341
Dislocations in Syton polished InP
[AD-A138041] 12 p1913 N84-22463
Spherical lapping velocities
[DE84-005734] 15 p2344 N84-25070
Structure of silver (100) and (111) single-crystal surfaces obtained by chemical polishing
[AD-A140148] 16 p2560 N84-26424
Study of mechano-chemical machining of ceramics and the effect on thin film behavior
[AD-A142542] 20 p3162 N84-30080
Optimizing tools for generating spherical surfaces and polishing powders in optical production technology
[BMFT-FB-T-84-094] 21 p3499 N84-32178
Optical fiber termination and splicing techniques
[DE84-013919] 22 p3564 N84-32572
Superconducting resonators — niobium
[BMFT-FB-T-84-119] 23 p3831 N84-34303

POLITICS
Technology and East-West trade: An update
[PB83-234955] 01 p0163 N84-11068
Progress in improving program and budget information for Congressional use
[AD-A137491] 12 p1920 N84-22511
USSR report: Political and sociological affairs, no. 1389. Chapters from Brezhnev's Reminiscences
[JPRS-83124] 14 p2112 N84-23658
Notes on a theory of terrorism
[AD-P003242] 18 p2903 N84-28409
Izvestiya assails U.S. military space plans
19 p2978 N84-28877
U. S. ASAT program viewed as element of space militarization policy 19 p2978 N84-28878
Further commentary on U. S. ASAT program
19 p2978 N84-28879
Factors affecting the supply of strategic raw materials with particular reference to the aerospace manufacturing industry 23 p3702 N84-33467

POLLEN
Climatic reconstructions in the North American arctic during the last 6000 years
[DE83-015836] 02 p0256 N84-11677

POLLUTANTS
U CONTAMINANTS

POLLUTION
NT AIR POLLUTION
NT ENVIRONMENT POLLUTION
NT GLOBAL AIR POLLUTION
NT INDOOR AIR POLLUTION
NT NOISE POLLUTION
NT OIL POLLUTION
NT WATER POLLUTION
Man and the biosphere program
[GPO-28-292] 15 p2366 N84-25193
Basic mathematical formulation of contaminant dispersions — atmospheric pollution
18 p2878 N84-28274

POLLUTION CONTROL
Research program for effects of acidic deposition on materials and cultural resources
[PB83-232074] 01 p0051 N84-10331
The use of fuel additives to control plume opacity of turbine engine test cells
[AD-A130777] 01 p0053 N84-10339
Optimizing coagulation-adsorption for haloform and TOC (Total Organic Carbon) reduction
[PB83-210757] 01 p0058 N84-10378
Multi-isotopic gamma ray assay system for alpha contaminated waste
[DE83-015254] 02 p0292 N84-11917
Remote sensing applied to marine pollution control
03 p0399 N84-12607
JANNAF Handbook: Rocket exhaust plume technology. Chapter 6: Spacecraft plume contamination
[AD-A131689] 05 p0644 N84-14236
Can we delay a greenhouse warming
[DE84-900196] 07 p1027 N84-16658
Apparatus and method for destructive removal of particles contained in flowing fluid
[NASA-CASE-NPO-15426-1] 08 p1161 N84-17555
Experimental investigation concerning the feasibility of electrostatic precipitators at high pressures and temperatures — gas cleaning systems for coal conversion
[BMFT-FB-T-83-201] 08 p1183 N84-17704
An analysis of concepts for controlling atmospheric carbon dioxide
[DE84-004203] 10 p1532 N84-20033
Fundamental organometallic reactions: Applications on the CYBER 205 10 p1560 N84-20221
Laboratory evaluation of novel particulate control concepts for jet engine test cells
[AD-A137641] 11 p1620 N84-20603
Progress in the prevention and control of air pollution in 1980 and 1981
[PB84-126788] 11 p1676 N84-20939
FY85 technical objectives document
[AD-A137987] 12 p1917 N84-22493
Indicators of hazard for polycyclic organic matter
[PB84-167493] 15 p2288 N84-24730
Navy electroplating pollution control technology assessment manual
[AD-A140336] 16 p2477 N84-25879
Energy technology characterizations handbook: Environmental pollution and control factors, third edition
[DOE/EP-0093] 16 p2511 N84-26117
Nitroguanidine wastewater pollution control technology: Phase 2 wastewater characterization and analytical methods development for organics
[AD-A141176] 18 p2811 N84-27844
Analysis of metals in atmospheric particles for spectrophotometry of atomic absorption
18 p2877 N84-28269
Plasma discharge chemistry
[AD-A141033] 18 p2932 N84-28596
Guidelines for assessment and control of noise
19 p3070 N84-29477
Anti-tampering and anti-misfueling programs to reduce in-use emissions from motor vehicles
[PB84-185222] 20 p3238 N84-30559
National environmental monitoring
[GPO-28-186] 22 p3619 N84-32933

POLLUTION MONITORING
Atlas of source emission particles
[PB83-229013] 01 p0103 N84-10672
Recent advances in EPA's (Environmental Prog monitoring and methods development research
[PB83-231209] 01 p0115 N84-10743
Probabilistic model for assessing time-varying contaminant levels
[PB83-232108] 01 p0115 N84-10745
Method for identifying trace contaminants in chamber atmosphere at high pressure 02 p0262 N84-11718
Marine remote sensing activities of the Joint Research Center, Ispra, Italy 03 p0396 N84-12586
Introductory studies of natural contamination and manmade pollution in Danish waters
03 p0399 N84-12608
Passive radiometry and other remote sensing data interpretation for oil slick thickness assessment, in an experimental case 03 p0399 N84-12609
Performance specifications for continuous monitoring of total reduced sulfur emissions (proposed July 20, 1981, 46 FR 37287), summary of comments and responses
[PB83-251009] 04 p0561 N84-13696
Use of fauna as biomonitors
[DE83-016082] 04 p0571 N84-13762
Air monitoring techniques for space shuttle launches Vandenberg Air Force Base
[AD-A132956] 05 p0700 N84-14593
The effects of long-range transport of air pollutants on artic cloud-active aerosol 05 p0702 N84-14604
Some statistical distributions of air particle trajectories near the ground in Finland
[ILMATIEDE-106] 07 p1035 N84-16716
Review of the National Ambient Air Quality Standards for sulfur oxides: Assessment of scientific and technical information
[PB84-102920] 08 p1184 N84-17711
Environmental monitoring instrumentation and monitoring techniques for space shuttle launches
[AD-A136594] 09 p1342 N84-18766
AgRISTARS: Agriculture and resources inventory surveys through aerospace remote sensing
[E84-10091] 10 p1522 N84-19962
Proceedings of the National Symposium on Recent Advances in Pollutant Monitoring of Ambient Air and Stationary Sources
[PB84-148345] 12 p1845 N84-22031
Emissions variability and traversing on production RB211 engines
[PNR-90176] 13 p1933 N84-22573
Measurement of NO, NO/sub 2, and HNO/sub 3 using a tunable diode laser system. Phase 2: Modification to permit automated simultaneous multi-species monitoring and feasibility study of extension to H/sub 2O/sub 2, CH/sub 2O and HONO
[PB84-160076] 14 p2151 N84-23890
Protocol for the collection and analysis of volatile POHCs (Principal Organic Hazardous Constituents) using VOST (Volatile Organic Sampling Train)
[PB84-170042] 15 p2338 N84-25035
Man and the biosphere program
[GPO-28-292] 15 p2366 N84-25193
Measurement of small amounts of xenon-133 in air: Report on a series of measures and tests in Stockholm and in Ljungbyhed
[FOA-C-20515-A1] 15 p2366 N84-25197
Report to the Congress on ocean pollution
[PB84-166768] 15 p2374 N84-25246
Activities report of the Division of Quantum Metrology
[NPL-QU-AR-82] 16 p2494 N84-26002
Analytical capability of the environmental radiation ambient monitoring system
[PB84-168818] 16 p2520 N84-26177
Project Noorwijk. Part 4: The radar backscatter of oil spills as measured at platform Noordwijk
[PHL-1983-47] 17 p2725 N84-27344
Air quality report, 1982
[PB84-166750] 17 p2725 N84-27346
Sampling report for the study of personal CO (carbon monoxide) exposure
[PB84-181957] 20 p3239 N84-30560
Compendium of selected methods for sampling and analysis at geothermal facilities
[PB84-199926] 22 p3565 N84-32579
Passive sampling device for ambient air and personal monitoring
[PB84-210046] 22 p3599 N84-32798
Locating and estimating air emissions from sources of carbon tetrachloride
[PB84-200625] 22 p3620 N84-32936
Hydrogen chloride measurements with a Differential Absorption and Scattering (DAS) lidar in the marine atmosphere 23 p3779 N84-33965

State-of-the art Differential Absorption and Scattering (DAS) lidar for SO2 and NO2 23 p3780 N84-33966
Lidar observations of the plumes of incineration ships 23 p3780 N84-33967
Quantitative determination of aerosol concentrations by lidar with respect to various relative humidities 23 p3780 N84-33968
Remote monitoring of sediments and chlorophyll as traces of pollutant movements in a Mediterranean coastal area 23 p3780 N84-33969
Detection and monitoring of the 1983 Nowruz oil spill using AVHRR data 23 p3780 N84-33972
Oil spill detection with DFVLR X-band SLAR 23 p3781 N84-33973
Microwave radiometry for oil pollution monitoring, measurement and systems 23 p3781 N84-33975
Quantitative determination of gaseous air pollutants by semiconducting sensors
[BMFT-FB-T-84-113] 23 p3793 N84-34058

POLLUTION TRANSPORT
Three-dimensional model for wind flow and pollutant transport-diffusion over complex terrain 02 p0243 N84-11591
Oxygen-18 measurements in the assessment of natural and anthropogenic sulfur in the environment
[DE84-000566] 04 p0560 N84-13690
Ecological Research Division marine research program
[DE83-017880] 04 p0560 N84-13691
USAF Space Shuttle dispersion modelling
[AD-A132957] 05 p0700 N84-14594
Atmospheric emergencies: Existing capabilities and future needs
[PB83-250779] 05 p0701 N84-14602
The effects of long-range transport of air pollutants on artic cloud-active aerosol 05 p0702 N84-14604
Arctic haze: Natural or pollution?
[AD-A134263] 07 p1039 N84-16737
An analysis of carbon monoxide emissions as a function of ambient temperature and vehicle parameters
[PB84-103829] 08 p1167 N84-17599
Evaluation of wind field interpolation schemes used in studies of regional-scale pollutant transport
[DE84-003634] 08 p1182 N84-17699
Dispersion experiments with sulfur hexafluoride from the 213m high meteorological mast at Cabauw in the Netherlands 08 p1183 N84-17706
Review of the National Ambient Air Quality Standards for sulfur oxides: Assessment of scientific and technical information
[PB84-102920] 08 p1184 N84-17711
Preliminary analysis of results of a mountain area atmospheric diffusion test
[AD-A136502] 09 p1342 N84-18765
MINTEQ: A computer program for calculating aqueous geochemical equilibria
[PB84-157148] 12 p1795 N84-21704
MEXAMS (Metals exposure analysis modeling system)
[PB84-157155] 12 p1799 N84-21736
Parametrization of the turbulent diffusion in the atmosphere using the turbulent energy equation(s) --- pollution transport
[GKSS-83-E-60] 14 p2174 N84-24019
EPA (Environmental Protection Agency) complex terrain model development description of a computer data base from small hill impaction study no. 1, Cinder Cone Butte, Idaho
[PB84-161439] 14 p2182 N84-24072
Wind tunnel modelling of buoyant plumes
[QUEL-1513/84] 15 p2256 N84-24552
Internal gravitation waves in a stably stratified atmosphere
[KBMI-WR-84-1] 15 p2368 N84-25206
A review of the basic concepts of dense gas dispersion with special regard to modelling of heat transfer
[QUEL-1512/84] 16 p2487 N84-25952
Acid deposition: Atmospheric processes in eastern North America, a review of current scientific understanding
[PB84-173095] 16 p2526 N84-26220
Basic mathematical formulation of the contaminant dispersion processes 18 p2877 N84-28268
Scientific analysis of existing data on aerosol dispersion and transport in a mountain valley
[AD-A142013] 20 p3238 N84-30555
Hydrogeology, digital solute-transport simulation, and geochemistry of the Lower Cretaceous aquifer system near Baltimore, Maryland 21 p3425 N84-31728
Geochemistry of oil shale leachates and interaction with geologic substrates, Piceance Creek Basin, Colorado 21 p3440 N84-31825
Remote monitoring of sediments and chlorophyll as traces of pollutant movements in a Mediterranean coastal area 23 p3780 N84-33969
A study of pollutant dispersal in a 2-dimensional field including gravity effects
[AD-A144295] 24 p3900 N84-34699

POLOIDAL FLUX
Determining the alpha dynamo parameter in incompressible homogeneous magnetohydrodynamic turbulence
[NASA-TM-85110] 02 p0295 N84-11936
Magnetohydrodynamic equilibrium and stability of spheromak plasma in flux conserver
[IPPJ-642] 03 p0443 N84-12909
Ripple-reduction poloidal-field coils for Tokamak reactors
[DE83-009532] 03 p0445 N84-12922
Impurity poloidal asymmetries and plasma rotation in the PDX Tokamak 05 p0748 N84-14914
Numerical simulation of the plasma current quench following a disruptive energy loss
[DE84-003151] 07 p1077 N84-17004
Precisely aligned internal magnetic probes for the reversed-field pinch experiment, ZT-40
[DE84-003704] 08 p1233 N84-18058
Poloidal field system design for the ZT-H reversed field pinch experiment
[DE84-004328] 10 p1586 N84-20396
Flux diffusion and acceleration in a high current modified betatron
[AD-A141277] 18 p2931 N84-28584
DDRFP transport code
[DE84-008573] 19 p3109 N84-29753
Disruptive instabilities in a poloidal divertor tokamak
[DE84-013054] 21 p3501 N84-32192

POLYACETYLENE
Solitons and polarons in quasi-one dimensional conducting polymers and related materials
[DE83-015233] 03 p0435 N84-12853
Electron-electron interactions and broken symmetry in one dimension
[DE84-001704] 06 p0925 N84-16014
Soliton propagation in one-dimensional organic conductors
[AD-A139386] 14 p2242 N84-24463
Polyacetylene and K 24 p3868 N84-34511

POLYACRYLATES
U ACRYLIC RESINS

POLYAMIDE RESINS
NT KEVLAR (TRADEMARK)
NT NYLON (TRADEMARK)
Synthesis of polyamides from diamines of the fluorene series
[NASA-TM-77398] 10 p1451 N84-19476
Thermoset-thermoplastic aromatic polyamide containing N-propargyl groups
[NASA-CASE-LAR-12723-2] 13 p1962 N84-22746
High temperature adhesives for structural applications: A review --- aircraft engines
[PNR-90171] 13 p1965 N84-22767
Fuel fire tests of polytetra-fluoroethylene anti-exposure suits
[AD-A140038] 15 p2385 N84-25303
Heat resistant protective hand covering
[NASA-CASE-MSC-20261-1] 18 p2915 N84-28484
Textile ballistic performance (data base)
[AD-A143249] 22 p3560 N84-32541

POLYATOMIC GASES
NT DIATOMIC GASES

POLYATOMIC MOLECULES
NT DIATOMIC MOLECULES
Electronic-relaxation processes in polyatomic molecules
[DE83-008738] 01 p0144 N84-10945
Collisional energy exchange in polyatomic molecules
[AD-A133942] 05 p0744 N84-14886
Crossed molecular beam studies of the reactions of oxygen and fluorine atoms
[AD-A135415] 08 p1124 N84-17309
Patterns of energy levels and spectra for polyatomic molecules
[DE84-007501] 15 p2405 N84-25436
Interaction of high intensity subnanosecond CO2 laser pulses with molecules
[AD-A143654] 23 p3754 N84-33795

POLYBENZIMIDAZOLE
Model compound studies of rigid rod aromatic heterocyclic polymer systems, the X-ray crystal structure of 2,6-diphenylbenzo (1,2-d; 5,4-d') diimidazole tetrahydrate, C2OH14N4. 4H2O, a model system for the study of polymer-water interaction in polybenzimidazoles
[AD-A135278] 08 p1137 N84-17393

POLYBROMINATED BIPHENYLS
Proceedings of the 13th Conference on Environmental Toxicology
[AD-A134150] 07 p1027 N84-16657

POLYBUTADIENE
Fracto-emission from polymers
[AD-A132462] 04 p0506 N84-13314
Small-angle X-ray scattering study of micelle formation in mixtures of butadiene homopolymer and styrene-butadiene block copolymer
[AD-A133645] 05 p0659 N84-14330
Homogenizing properties of diblock polymers in blends of corresponding homopolymers
[AD-A132832] 05 p0659 N84-14334
Homopolymer-induced microphase separation of a homogeneous diblock copolymer
[AD-A133069] 05 p0660 N84-14337
Durability of adhesive bonds with ionic bonds at the interface --- propellant binder adhesion 20 p3144 N84-29960

POLYCARBONATES
NT LEXAN (TRADEMARK)
The performance of the perfluorocarbon liquid/plastic-film capacitor technology in pulse-power service. A current status report
[DE83-014606] 03 p0369 N84-12402
Three-dimensional measurements of fatigue crack closure
[NASA-CR-175366] 06 p1169 N84-17616
Development of an impact resistant test method for polycarbonate
[AD-A139082] 13 p2002 N84-22988
Weathering trials and new rigidity tests on protective helmets for motor cyclists
[ARL-STRUC-TECH-MEMO-372] 15 p2300 N84-24804
Cumulative creep damage for polycarbonate and polysulfone
[NASA-CR-173433] 16 p2471 N84-25840
Testing polycarbonate for utilization in the production of transparent enclosures
[AD-P003192] 17 p2591 N84-26605
Degradation of the bird impact resistance of polycarbonate
[AD-P003193] 17 p2591 N84-26606
Service-life induced failure of bird impact resistant windshields
[AD-P003195] 17 p2591 N84-26608
Comparison of bullet resistance of new and aged polycarbonate
[AD-P003196] 17 p2592 N84-26611
New high performance windshield/canopy materials
[AD-P003199] 17 p2592 N84-26612
Heat resistant copolyester-carbonate transparent plastics
[AD-P003205] 17 p2593 N84-26618
The certification of polycarbonate transparencies: An appeal for reasonable requirements
[AD-P003225] 17 p2596 N84-26636
Three-dimensional measurements of fatigue crack closure
[NASA-CR-173679] 18 p2852 N84-28110
Effects of surface flaws on impact resistance of uncoated polycarbonate
[AD-A141364] 19 p2998 N84-28998
High energy physics research at Texas Agriculture and Mining University --- magnetic monopoles in cosmic rays and hadron calorimeter design
[DE84-011616] 22 p3655 N84-33167
An experimental approach to evaluating environmental degradation mechanisms in bisphenol-A polycarbonate films on metallic substrates
[SERI/TR-255-1602] 24 p3917 N84-34798

POLYCHLORINATED BIPHENYLS
Bacterial degradation of polychlorinted biphenyls in sludge from an industrial sewer lagoon
[NASA-TM-83543] 02 p0243 N84-11594
Dynamic mass balance of PCB (polychlorinated biphenyls) and suspended solids in Saginaw Bay: A case study
[PB83-250308] 04 p0561 N84-13699

POLYCRYSTALS
Photovoltaics advanced research and development bibliography
[DE83-009399] 02 p0302 N84-11983
Generation of monoenergetic positrons
[DE83-015535] 03 p0440 N84-12887
Design analysis of advanced photovoltaic technologies
[DE84-000008] 04 p0557 N84-13675
Determining stresses in the presence of nonlinearities in interplanar spacing versus Sin squared Psi
[AD-A132365] 04 p0612 N84-14041
Electrical conductivities of polycrystalline and single-crystal Er2O3-stabilized hafnia
[DE83-017681] 06 p0811 N84-15279
A formula for the sputtering yield of polycrystalline materials 06 p0816 N84-15313
Progress in polycrystalline thin-film solar cells
[DE83-012131] 06 p0875 N84-15691
A study on the tensile strength of ice as a function of grain size
[AD-A134889] 08 p1172 N84-17631

The current status of diamond and cubic boron nitride composites 09 p1292 N84-18441
Development of high purity IP crystals
[AD-A135937] 09 p1395 N84-19114
AC conductivity of polycrystalline Ca-Alpha-double prime-alumina
[DE84-006529] 11 p1745 N84-21386
Structural features of polycrystalline ZnSe and solid solutions ZnSe sub I-x S sub x 12 p1788 N84-21659
Study of the initial stages of anodic oxidation of polycrystalline silver in KOH solutions
[AD-A138381] 12 p1793 N84-21694
Characterization of grain boundaries in silicon
[NASA-CR-173459] 12 p1912 N84-22460
High speed, low power MOS technologies
[BMFT-FB-T-83-289] 12 p1916 N84-22484
High temperature failure mechanisms in ceramic polycrystals
[DE84-006641] 13 p1965 N84-22764
Plasma-initiated laser deposition of polycrystalline and monocrystalline silicon films
[DE84-005527] 13 p1996 N84-22953
InP materials
[AD-A138992] 13 p2047 N84-23282
Observations of damage and transport of hydrogen in ion bombarded polycrystalline silicon
[DE84-006035] 14 p2243 N84-24466
Low temperature (150 to 250(0)C) deposition of n(+) and p(+) microcrystalline silicon for VLSI device contacts
[DE84-006474] 14 p2243 N84-24470
Studies of metastable microcrystalline and glassy alloys
[AD-A139941] 15 p2297 N84-24787
Effect of iron on the electron paramagnetic resonance (EPR) spectra of Mn-2+ ions in polycrystalline calcite
15 p2402 N84-25414
Process Research On Polycrystalline Silicon Material (PROPSM) --- flat plate solar array project
[NASA-CR-173754] 18 p2869 N84-28213
Process Research On Polycrystalline Silicon Material (PROPSM)
[NASA-CR-173753] 18 p2869 N84-28214
Scattering of ultrasound by minority phases in polycrystalline metals
[AERE-R-11162] 18 p2929 N84-28574
Polycrystalline silicon sheets for solar cells by the improved spinning method 18 p2937 N84-28626
Orientation and morphology effects in rapid silicon sheet solidification 18 p2937 N84-28627
Crystalline effects in Auger electron spectroscopy
[AERE-R-11051] 18 p2942 N84-28658
High resolution cathodoluminescence of yellow and waterclear CVD polycrystalline ZnS
[AD-A141100] 19 p3110 N84-29759
Investigations to improve the stability of thermal oxides on polycrystalline and single crystalline silicon
[BMFT-FB-T-84-052] 19 p3113 N84-29780
Study of mechano-chemical machining of ceramics and the effect on thin film behavior
[AD-A142542] 20 p3162 N84-30080
Nature of polarized vibronic sidebands of biexciton absorption in Alpha-oxygen 20 p3269 N84-30684
Unified theory and measurements of elastic waves in polycrystalline materials 21 p3489 N84-32110
Development and testing of glass coatings for Hexanite-A powders
[CSIR-TRANS-1747] 22 p3557 N84-32527
Polycrystalline silicon study: Low-cost silicon refining technology prospects and semiconductor-grade polycrystalline silicon availability through 1988
[NASA-CR-173697] 22 p3662 N84-33213
Mechanics of microcrack toughening in ceramics
23 p3760 N84-33831
Materials for high-temperature thermoelectric conversion
[NASA-CR-173969] 23 p3786 N84-34011
Process Research of Polycrystalline Silicon Material (PROPSM)
[NASA-CR-173934] 23 p3788 N84-34026
Process Research of Polycrystalline Silicon Material (PROPSM)
[NASA-CR-173935] 23 p3789 N84-34033
The effects of impurities and additives on the growth of polycrystalline TNT
[MRL-R-916] 24 p3890 N84-34629
Electronic properties of grain boundaries in GaAs: A study of oriented bicrystals prepared by epitaxial lateral overgrowth
[AD-A144358] 24 p3967 N84-35118

POLYESTER RESINS
Composite materials in automobile weight reduction
15 p2431 N84-25599
New high performance windshield/canopy materials
[AD-P003199] 17 p2592 N84-26612
Heat resistant copolyester-carbonate transparent plastics
[AD-P003205] 17 p2593 N84-26618

POLYESTERS
Polyester fiber reinforcement of thermosetting molding compounds
[BMFT-FB-T-83-155] 05 p0661 N84-14342
Buckling strength of corrugated shear webs
[NAL-TR-759] 09 p1330 N84-18684
Electrohydrodynamic and flow instabilities in nematic polymers
[AD-A137812] 11 p1744 N84-21380
Interactions between F-111 fuselage fuel tank sealants. Part 1: Characterisation of polyester sealants and their hydrolytic degradation products
[MRL-R-657-PT-1] 16 p2470 N84-25828
Liquid crystal polyester-carbon fiber composites
[NASA-CR-172323] 17 p2618 N84-26754
Sulfone-ester polymers containing pendent ethynyl groups
[NASA-CASE-LAR-13316-1] 19 p2996 N84-28987
Ethynyl-terminated ester oligomers and polymers therefrom
[NASA-CASE-LAR-13118-1] 19 p2997 N84-28988

POLYETHER RESINS
NT POLYMETHYL METHACRYLATE
A method for manufacturing a polyether halohydrin polymer and its derivatives
[AD-A130083] 02 p0199 N84-11298
Characterization of block copolymers based on poly(3,3 -bis(ethoxymethyl)oxetane) and other novel polyethers
[AD-A142606] 20 p3162 N84-30081

POLYETHYLENES
Effect of modifying additives on the properties of polymer blends
[CSIR-1690] 01 p0049 N84-10313
Structure and properties of polyethylene
[PB83-243931] 02 p0202 N84-11316
Relationship between morphology and mechanical properties of ultra high molecular weight polyethylene
[PB83-240960] 02 p0202 N84-11317
Plane strain fracture toughness of polyethylene pipe materials
[MIT-RR-R82-2] 06 p0857 N84-15586
Countercurrent distribution of biological cells
[NASA-CR-170958] 06 p0885 N84-15755
Dielectric relaxation in poly(ethylene oxide) complexed with alkali metal perchlorates
[AD-A134464] 07 p0970 N84-16284
Effect of pressure on conductivity in Poly(Ethylene oxide) complexed with alkali metal salts
[AD-A134562] 07 p0970 N84-16285
Ion implantation in polymers
[AD-A134482] 07 p0979 N84-16342
Structure, inhibition and extinction of polymer diffusion flames
[PB84-101336] 08 p1127 N84-17327
Tie molecules in polyethylene
[PB84-101435] 08 p1139 N84-17405
Neon transport in selected organic composites --- stopping power of Kapton and polyethylene
[NASA-TM-85693] 08 p1231 N84-18044
Durability and failure analyses of a silane treated Alpha-Al2O3/Polyethylene joint in wet environment
[AD-A136089] 09 p1333 N84-18705
New data on long term stabilization of polyethylene for telecommunication wire insulation
11 p1721 N84-21227
Behaviour of four non-migratory antioxidants in solid polyethylene insulation 11 p1721 N84-21228
Particulate models of photosynthesis
[DE84-003947] 12 p1863 N84-22142
Polymers in mechanochemical systems: Structure-property requirements
[DE84-007290] 15 p2413 N84-25490
Mechanical behavior of ultra high molecular weight polyethylene
[PB84-175538] 16 p2473 N84-25851
Surface embrittlement of polyethylene pipe grade resins
[PB84-181973] 17 p2627 N84-26811
Poly(ethylene maleate) - cyclopentadiene: A model reactive polymer-vapor system for evaluation of a SAW (Surface Acoustic Wave) microsensor
[AD-A141531] 19 p2999 N84-29001
Kevlar-49/epoxy case skirt structural fatigue strength
20 p3143 N84-29955
Uniaxial draw of poly(ethylene oxide) by solid state extrusion
[AD-A141923] 20 p3161 N84-30074
Adhesion between polymers and evaporated gold and nickel films
[NASA-TP-2360] 21 p3369 N84-31379
Effect of processing conditions on the reliability of crosslinked polyethlene cable insulation
[DE84-014902] 22 p3560 N84-32546
Electrofilters from polymer materials
24 p3867 N84-34509

POLYGONIZATION
Electron microscope study of processes of polygonization and recrystallization in alpha-phase of two-phase (alpha + beta)-titanium alloys with plate structure 23 p3708 N84-33507

POLYGONS
NT HEXAGONS
NT RECTANGLES
NT SQUARES (MATHEMATICS)
NT TRIANGLES
A subdivision algorithm in configuration space for findpath with rotation
[AD-A130565] 01 p0130 N84-10850
Regular n-gons and Fuchsian groups
04 p0576 N84-13798
A convex hull algorithm for planar simple polygons
[CSIR-TWISK-290] 07 p1059 N84-16864
On conditions for success of Sklansky's convex hull algorithm
[CSIR-TWISK-282] 07 p1059 N84-16866
On an algorithm for external triangulation of ELV polygons
[CSIR-TWISK-287] 11 p1712 N84-21162
Connectivity of circulant digraphs
[MC-BW-186/83] 13 p2038 N84-23220
Small-scale polygons on Mars
13 p2085 N84-23505
On the equidecomposability of a regular triangle and a square of equal areas
[AD-A139270] 14 p2213 N84-24290
Two infinite sequences of near polygons
[MC-ZW-194/83] 14 p2215 N84-24302
Data base dependent aggregation operators in a map oriented information system
[FOA-C-30347-E1] 15 p2417 N84-25514

POLYHEDRONS
NT OCTAHEDRONS
NT PARALLELEPIPEDS
NT TETRAHEDRONS
A geometric modeler based on a dual-geometry representation polyhedra and rational b-splines
12 p1869 N84-22181
Uniqueness of inverse problem in gravimetry for homogeneous polyhedrons 17 p2700 N84-27201

POLYIMIDE RESINS
Irradiation effects on the mechanical properties of composite organic insulators
[DE83-014703] 01 p0032 N84-10202
Durable copper polyimide adhesive bonds
[AD-A130221] 01 p0049 N84-10319
Temperature dependence of hydrolysis of polyimide wire insulation
[AD-A131334] 02 p0200 N84-11301
Elastomer-modified phosphorus-containing imide resins
[NASA-CASE-ARC-11400-1] 05 p0657 N84-14322
Chemistry, characterization and processing of IMC curing polymers
[AD-A133479] 06 p0810 N84-15274
A study of polymer matrix fatigue properties
[AD-A135076] 08 p1122 N84-17294
Characterization of PMR polyimide resin and prepreg
[NASA-CR-168217] 11 p1636 N84-20695
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-3] 13 p1953 N84-22698
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-4] 13 p1953 N84-22699
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-5] 13 p1953 N84-22700
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-6] 13 p1953 N84-22701
Hydrolytic degradation of kapton film
[AD-A139016] 13 p1964 N84-22762
Chemistry of processible acetylene-terminated imides
[AD-A139417] 14 p2122 N84-23720
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-1] 18 p2817 N84-27885
Development of partially fluorinated resin apex seals
[NASA-CR-174706] 22 p3603 N84-32828
Advanced strain-isolation-pad material with bonded fibrous construction
[NASA-CR-166599] 23 p3723 N84-33592
Thermal degradation studies of segmented thermoplastic elastomers
[AD-A143954] 23 p3724 N84-33600

POLYIMIDES
NT KAPTON (TRADEMARK)
Processing study of a polyimidesulfone adhesive
[NASA-TM-85742] 07 p0978 N84-16339

Low wear partially fluorinated polyimides
[NASA-TM-83629] 15 p2301 N84-24808
An investigation into the injection molding of PMR-15 polyimide
[NASA-CR-173550] 15 p2301 N84-24810
High density circuit technology
[NASA-CR-162039] 19 p3012 N84-29089
A study of the effects of end-cap molecular species on environmental characteristics of polimidesulfones
[NASA-TM-86283] 22 p3544 N84-32437
Rigid closed-cell polyimide foams for aircraft applications and foam-in-place technology
[NASA-CR-171805] 22 p3559 N84-32535
A facility for investigating interactions of energetic atomic oxygen with solids 24 p3863 N84-34481
Melt-flow-toughness modified polyimide
[NASA-CASE-LAR-13135-1] 24 p3887 N84-34616

POLYISOPRENES
Tensile properties of plastic propellant ICP 200-P129 with CIS 1.4 polyisoprene
[INTA-NT-N-223/410/83.038] 18 p2821 N84-27913

POLYMER CHEMISTRY
An approach to molecular composites
[AD-A130192] 01 p0141 N84-10927
A method for manufacturing a polyether halohydrin polymer and its derivatives
[AD-A130083] 02 p0199 N84-11298
Synthesis of energetic materials
[AD-A130974] 02 p0200 N84-11299
Relationship between the glass transition temperature and the chemical structure of polymers
[RAE-LIB-TRANS-2098] 04 p0505 N84-13312
Structure, inhibition and extinction of polymer diffusion flames
[PB84-101336] 08 p1127 N84-17327
A new approach to polymer chemistry: Organometallic and bioactive phosphazenes
[AD-A135429] 08 p1137 N84-17396
Chemical reactions possibly useful for low temperature thermal energy storage
[DE84-004126] 09 p1342 N84-18763
Significant NASA inventions available for licensing in foreign countries
[NASA-SP-7038(05)] 09 p1399 N84-19133
Significant NASA inventions available for licensing in foreign countries
[NASA-SP-7038(07)] 09 p1399 N84-19134
Ultra-high molecular weight silphenylene-siloxane polymers
[NASA-TP-2295] 10 p1464 N84-19564
Characterization of physio-chemical properties of polymeric and electrochemical materials for aerospace flight
[NASA-CR-175406] 10 p1465 N84-19568
Characterization of PMR polyimide resin and prepreg
[NASA-CR-168217] 11 p1636 N84-20695
Characterization and measurement of polymer wear
[NASA-TM-83628] 12 p1800 N84-21739
Properties of polyurethane anionomers: Ionization via bimolecular nucleophilic displacement of the urethane hydrogen
[AD-A137968] 12 p1801 N84-21742
Status of ammonium nitrate in propellants and explosives 13 p1946 N84-22655
Use of a polyacetylene cathode in primary lithium-thionyl chloride cells
[AD-A138791] 13 p1986 N84-22896
European research on polymers and composites
[AD-A139760] 15 p2302 N84-24813
Luminescence titrations of polyelectrolytes
[AD-A140823] 17 p2619 N84-26763
Program for research on conducting polymers
[AD-A142148] 19 p3000 N84-29009
Kevlar-49/epoxy case skirt structural fatigue strength 20 p3143 N84-29955
Viscoelastic and aging characteristics of polymers
[DE84-012689] 21 p3371 N84-31393
Calorimetric and thermogravimetric analysis applied to industrial polymers
[SNIAS-841-551-101] 21 p3372 N84-31399
Electrical and differential scanning calorimetry studies of poly(ethylene oxide) complexed with alkaline earth thiocyanates
[AD-A143198] 22 p3546 N84-32449
NMP, electrical relaxation, and high pressure electrical conductivity in ion conducting polymers
[AD-A143202] 22 p3546 N84-32451
Electrically conducting poly(vinyl acetate)
[AD-A143199] 22 p3559 N84-32538
Properties of UV-curable polyurethane acrylates: Effect of reactive diluent
[AD-A143241] 22 p3559 N84-32540
Cure reactions, network structure and mechanical response of diaminodiphenyl sulfone cured tetraglycidyl 4,4'diaminodiphenyl methane
[DE84-012607] 22 p3561 N84-32548
Development of partially fluorinated resin apex seals
[NASA-CR-174706] 22 p3603 N84-32828
Soluble polyacetylenic and polyaromatic polymers and method of making the same
[DE84-014314] 23 p3725 N84-33607

POLYMER MATRIX COMPOSITES
The influence of the environment on the mechanical characteristics of composite materials: Design considerations — polymer matrix composites
[INTA-INFORME-I-1/221/720/83047] 06 p0811 N84-15281
Hygrothermal effects in continuous fibre reinforced composites. Part 3: Mechanical properties 1 - static tests
[AD-A135767] 09 p1276 N84-18332
Hygrothermal effects in continuous fibre reinforced composites. Part 4: Mechanical properties 2 - fatigue and time-dependent properties
[AD-A135768] 09 p1276 N84-18333
TICA (Torsion Impregnated Cloth Analysis) study of high-temperature thermoplastics
[AD-A137048] 10 p1468 N84-19586
The effect of space environment exposure on the properties of polymer matrix composite materials (A0180) 15 p2272 N84-24644
Statistical fatigue and residual strength degradation model for glass polyester laminates 15 p2309 N84-24857
Application of stress-generated heat in composites to thermographic NDT 15 p2310 N84-24864
Calorimetric and thermogravimetric analysis applied to industrial polymers
[SNIAS-841-551-101] 21 p3372 N84-31399

POLYMER PHYSICS
Non-Newtonian intrinsic viscosity of rigid ellipsoid solutions
[BLL-WH-570-(9091.9F)] 01 p0138 N84-10903
An approach to molecular composites
[AD-A130192] 01 p0141 N84-10927
Ultra-high molecular weight silphenylene-siloxane polymers
[NASA-TP-2295] 10 p1464 N84-19564
Characterization of physio-chemical properties of polymeric and electrochemical materials for aerospace flight
[NASA-CR-175406] 10 p1465 N84-19568
Electrohydrodynamic and flow instabilities in nematic polymers
[AD-A137812] 11 p1744 N84-21380
Physical properties and structure of ion-containing polymers
[AD-A139137] 14 p2129 N84-23766
Metal-chelate polymers: Structural/property relationships as a function of the metal ion
[AD-A140205] 16 p2471 N84-25839
Development of methods of evaluation extensional properties of polymer solutions from measurements of shear
[AD-A140451] 16 p2472 N84-25845
Deformation and fracture studies of polymers in the scanning electron microscope 17 p2626 N84-26802
Physical techniques for profiling heterogeneous polymer degradation
[DE84-013807] 22 p3560 N84-32547

POLYMERIC FILMS
NT KAPTON (TRADEMARK)
Polymeric microelectronics
[AD-A130523] 01 p0049 N84-10317
Organotin piezo- and pyroelectric polymer films
[DE83-009903] 02 p0201 N84-11306
Polymer degradation on reflecting metal films: Fourier transform infrared (FTIR) reflection-absorbance studies
[DE83-012129] 03 p0404 N84-12641
Study of plasma chemistry and plasma processing
[AD-A132207] 04 p0606 N84-13997
Polymer coated electrodes in ambient temperature molten salts
[AD-A133202] 06 p0801 N84-15220
Surface coating systems for copper and copper alloys 06 p0815 N84-15311
Charge storage in doped poly(thiophene)
[AD-A137085] 10 p1455 N84-19506
Hysteresis in copolymers of vinylidene fluoride and trifluoroethylene
[AD-A137446] 10 p1466 N84-19577
Anodic oxidation of furans in aprotic solvents
[AD-A137081] 10 p1468 N84-19587
Polymer thick-film conductors and dielectrics for membrane switches and flexible circuitry 12 p1840 N84-21994
Chemical properties and film casting of radiation grafted ion-containing polymers
[AD-A138551] 13 p1963 N84-22754
Space exposure of composite materials for large space structures (A0134) 15 p2271 N84-24639
Ion-beam-textured and coated surfaces experiment (S1003) 15 p2273 N84-24650
Ion exchange selectivity of Nafion films on electrode surfaces
[AD-A140624] 17 p2620 N84-26764
The effect of plasticizer on the polarizer of Poly(vinylidene fluoride) films
[AD-A140770] 17 p2626 N84-26806
Technical report on sprayable compliant coatings
[PB84-178011] 17 p2627 N84-26810
Piezoelectric properties and ferroelectric hysteresis effects in unaxially stretched Nylon-11 films
[AD-A140683] 17 p2768 N84-27575
Development of FT-IR attenuated total internal reflection dichroism techniques for structural characterization of polymer surfaces
[AD-A140805] 17 p2768 N84-27577
Nuclear particle detection using a track-recording solid 18 p2800 N84-27769
Method for the preparation of thin-skinned asymmetric reverse osmosis membranes and products thereof
[NASA-CASE-ARC-11359-1] 18 p2894 N84-28361
Poly(ethylene maleate) - cyclopentadiene: A model reactive polymer-vapor system for evaluation of a SAW (Surface Acoustic Wave) microsensor
[AD-A141531] 19 p2999 N84-29001
Fabrication of biaxially oriented films via poly(p-phenylene teraphthalamide)/H2SO4 liquid crystalline dopes
[AD-A141755] 19 p3111 N84-29764
Strategic blue-green communication filters
[AD-A142353] 20 p3173 N84-30151
An evaluation of polymer coatings for the promotion of dropwise condensation of steam
[AD-A144018] 23 p3725 N84-33602
An experimental approach to evaluating environmental degradation mechanisms in bisphenol-A polycarbonate films on metallic substrates
[SERI/TR-255-1602] 24 p3917 N84-34796

POLYMERIZATION
NT COPOLYMERIZATION
NT DIMERIZATION
NT VINYL COPOLYMERS
Polymerisation of acrolein and its derivatives. 2: Polymerisation of acrolein and alpha-alkyl substituted acrolein in the presence of metallic sodium
[BLL-M-28708-(5828.4)] 01 p0048 N84-10308
Study of factors leading to regrouping of the chain structure during ionic diene polymerization
[BLL-M-28719-(5828.4)] 01 p0048 N84-10309
Effects of surface area and pore size upon liquid chromatographic fractionations of polystyrene oligomers using ethylphenyl derivatized silicas
[DE83-014632] 01 p0051 N84-10327
Effect of molecular-structural characteristics of cis-1,4 polyisoprene on the melting temperature of the orientated crystaline phase
[CSIR-TRANS-1643] 01 p0152 N84-10999
Curing of epoxy resins with 1-DI(2-chloroethoxyphosphinyl) methyl-2,4 and -2,6-diaminobenzene
[NASA-TM-84350] 02 p0186 N84-11212
Optical emission and mass spectrometric studies of plasma deposition
[DE83-016700] 02 p0191 N84-11243
Study of the interaction of organomagnesium compounds with the salts of heavy metals and the use of organomagnesium compounds and their complexes as initiators of polymerization
[BLL-M-28720-(5828.4)] 02 p0198 N84-11292
A method for manufacturing a polyether halohydrin polymer and its derivatives
[AD-A130083] 02 p0199 N84-11298
Epitaxial polymerization as a molecular engineering technique
[AD-A131405] 02 p0200 N84-11302
High-resolution nuclear magnetic resonance in solids (1975-1982)
[DE83-016408] 02 p0291 N84-11910
Replacement of PBNA in HB and HC polymers used in SRM propellant and liner
[NASA-CR-170936] 03 p0355 N84-12311
Polymers of phosphonylmethyl-2,4- and -2,6-diamino benzenes and the like
[NASA-CASE-ARC-11506-1] 03 p0356 N84-12313
Solitons and polarons in quasi-one dimensional conducting polymers and related materials
[DE83-015233] 03 p0435 N84-12853
Cobalt ion-containing epoxies
[NASA-TM-85715] 04 p0505 N84-13309
Plasma polymerized high energy density dielectric films for capacitors
[NASA-CR-168233] 04 p0505 N84-13310

Relationships between the glass transition, thermodynamic and mechanical values as possible sources of information correlating material properties with chemical structure
[BR-90008] 05 p0644 N84-14238
Elastomer-modified phosphorus-containing imide resins
[NASA-CASE-ARC-11400-1] 05 p0657 N84-14322
The preparation and properties of porous glass-polymer composite 06 p0808 N84-15261
Synthesis and characterization of some thermotropic nematic and cholesteric polymers 06 p0808 N84-15262
New polyconjugated oxidation-reduction polymers, as well as a method and apparatus for electrochemical regeneration
[DE84-002813] 06 p0810 N84-15276
European Scientific Notes. Volume 37, number 9
[AD-A133558] 06 p0935 N84-16079
Process for preparing phthalocyanine polymers
[NASA-CASE-ARC-11511-1] 07 p0966 N84-16259
Amine terminated bisaspartimides, process for preparation thereof, and polymers thereof
[NASA-CASE-ARC-11421-1] 07 p0978 N84-16340
Ion implantation in polymers
[AD-A134482] 07 p0979 N84-16342
Deposition of polymer films on metal by the electrolysis of aqueous solutions of vinyl monomers
[BLL-LTS-1200/83-(5828.4F)] 08 p1136 N84-17386
Synthesis of phosphorus-nitrogen polymers using Si-N-P reagents
[AD-A135224] 08 p1137 N84-17392
Plasma modification of graphite fibers and its effect on composite properties
[AD-A136558] 09 p1276 N84-18329
Charge storage in doped poly(thiophene)
[AD-A137085] 10 p1455 N84-19506
Ultra-high molecular weight silphenylene-siloxane polymers
[NASA-TP-2295] 10 p1464 N84-19564
Standardization and selection of a method for evaluating shear resistance of lubricating oils with polymer additives
[NASA-TM-77383] 10 p1465 N84-19569
Polymerization of functionalized acetylenes
[AD-A137120] 10 p1465 N84-19570
Quantum chemical investigations of the mechanism of cationic polymerization and theoretical prediction of crystal densities and decomposition pathways of energetic molecules
[AD-A137271] 10 p1465 N84-19571
Polymerization of 3-methyl-2,5-Dibromothiophene utilizing n-butyl lithium and Copper(II) chloride
[AD-A136955] 10 p1468 N84-19585
The mechanism of Ziegler-Natta polymerization of acetylene: A nutation NMR study
[AD-A137089] 10 p1468 N84-19588
Polymerizations of acetylenes and cyclic olefins induced by metal-carbynes
[AD-A137090] 10 p1468 N84-19589
Fire resistant polymers based on 1-((dialkoxyphosphonyl)methyl)-2,4- and -2,6-diaminobenzenes
[NASA-CASE-ARC-11512-1] 11 p1637 N84-20702
Radical and ion molecule mechanisms in the polymerization of hydrocarbons and chlorosilanes in RF plasmas at low pressures (1.0 torr)
[NASA-TM-83602] 11 p1736 N84-21329
Development of an impact- and solvent-resistant thermoplastic composite matrix
[NASA-CR-172285] 12 p1789 N84-21668
Second Berkeley Catalysis and Surface Science Conference
[DE84-005536] 12 p1794 N84-21699
Supercritical solvent coal extraction
[NASA-CASE-NPO-15210-1] 13 p1955 N84-22709
Thermoset-thermoplastic aromatic polyamide containing N-propargyl groups
[NASA-CASE-LAR-12723-2] 13 p1962 N84-22746
Polyphenylene ethers with imide linking groups
[NASA-CASE-LAR-12980-1] 13 p1962 N84-22749
Carboranylmethylene-substituted phosphazenes and polymers thereof
[NASA-CASE-ARC-11370-1] 13 p1962 N84-22750
Chemical properties and film casting of radiation grafted ion-containing polymers
[AD-A136551] 13 p1963 N84-22754
Polymer Science and Standards Divisions report, 1983 14 p2130 N84-23773
The influence of surface topography on polymer friction 14 p2153 N84-23899
Phenoxy resins containing pendent ethynyl groups and cured resins therefrom
[NASA-CASE-LAR-13262-1] 15 p2300 N84-24805
Numerical simulation of strongly non-isothermal compression molding flows 15 p2306 N84-24834
Polymers in mechanochemical systems: Structure-property requirements
[DE84-007290] 15 p2413 N84-25490
Workshop on Dynamic Fracture held at Pasadena, California on 17-18 February 1983
[AD-A140194] 16 p2466 N84-25806
Synthesis and investigation of polyimidobenzimidazoles
[AD-A140184] 16 p2471 N84-25838
Metal-chelate polymers: Structural/property relationships as a function of the metal ion
[AD-A140205] 16 p2471 N84-25839
Creep deformation measurement of polymer strips after buckling by Moire method
[NAL-TR-789] 16 p2501 N84-26055
Liquid crystal polyester-carbon fiber composites
[NASA-CR-172323] 17 p2618 N84-26754
Chemical news (selected articles)
[AD-A140887] 17 p2627 N84-26808
United States Air Force Academy, Department of Chemistry research: AY 1982-83
[AD-A141015] 18 p2808 N84-27828
Metal phthalocyanine polymers
[NASA-CASE-ARC-11405-1] 18 p2817 N84-27884
Synthesis of resin polymers for chemical agent defense
[AD-A141035] 18 p2818 N84-27892
An investigation into polymer design and synthesis for infrared energy absorption
[AD-A141265] 18 p2818 N84-27895
Photographic characteristics of polymer composite including complex with charge transfer 18 p2826 N84-27944
Sulfone-ester polymers containing pendent ethynyl groups
[NASA-CASE-LAR-13316-1] 19 p2996 N84-28987
Ethynyl-terminated ester oligomers and polymers therefrom
[NASA-CASE-LAR-13118-1] 19 p2997 N84-28988
Organosilane polymers. 5: Hydrosilyl-modified polycarbosilane precursors for silicon carbide
[AD-A141546] 19 p2999 N84-29002
Organosilane polymers. 6: Branched polysila/hydrocarbon precursors for silicon carbide
[AD-A141558] 19 p2999 N84-29003
Program for research on conducting polymers
[AD-A142148] 19 p3000 N84-29009
Electrical monitoring of polymerization reactions with the charge-flow transistor
[AD-A142267] 19 p3000 N84-29010
Synthesis of energetic materials
[AD-A141495] 19 p3001 N84-29021
Electropositive bivalent metallic ion unsaturated polyester complexed polymer concrete
[DE84-011080] 20 p3146 N84-29979
The photoelectrochemistry of conducting polymers
[DE84-010889] 20 p3164 N84-30093
High energy binders
[AD-A142347] 20 p3166 N84-30105
Properties of polymers: Some uses in electronics, part 1
[DE84-012863] 21 p3370 N84-31386
Laser Induced Chemistry. 1984 JPM Specialist Session
[AD-A142922] 21 p3372 N84-31400
Laser induced polymerization reactions in solid propellant binders 21 p3373 N84-31403
Differential scanning calorimeter data acquisiton system
[AD-A143118] 21 p3405 N84-31600
The transformation of liquid to amorphous solid: The time to vitrify for styrene polymerization
[AD-A143228] 22 p3547 N84-32452
Stabilized unsaturated polyesters
[NASA-CASE-NPO-16103-1] 22 p3558 N84-32530
Soluble polyacetylenic and polyaromatic polymers and method of making the same
[DE84-014314] 23 p3725 N84-33607
Laser beam technology promoting high speed and selective plating processes
[AD-A143715] 23 p3754 N84-33797
Design, analysis and test verification of advanced encapsulation systems
[NASA-CR-173941] 23 p3789 N84-34028
USSR report: Chemistry
[JPRS-UCH-84-007] 24 p3867 N84-34508

POLYMERS

High-current, high-frequency capacitors 01 p0011 N84-10067
Structure and properties of polymers and organosilanes adsorbed onto oxidized aluminum and titanium
[AD-A130753] 01 p0050 N84-10321
Comparative testing of polymer solutions. Part 1: Preliminary evaluation of a rheometrics fluids rheometer
[AD-A130888] 01 p0050 N84-10322
Design and fabrication of a fiberglass circular-weave composite flywheel
[DE83-013406] 01 p0090 N84-10589
Fracture mechanics of sub-laminate cracks
[AD-A130782] 01 p0096 N84-10623
Synthesis of perfluoroalkylene dianilines
[NASA-CR-168004] 02 p0189 N84-11228
Investigation of the statistical mechanics of linear polymers for various physical conditions
[JUEL-1832] 03 p0357 N84-12324
Tailoring polymer films for solar-collection use, phase 1
[DE83-018117] 03 p0404 N84-12640
Fracto-emission from polymers
[AD-A132462] 04 p0506 N84-13314
Aging of polymeric materials
[AD-A132250] 04 p0506 N84-13318
Surface embrittlement of ductile polymers: A fracture mechanics approach 05 p0657 N84-14321
Homogenizing properties of diblock polymers in blends of corresponding homopolymers
[AD-A132832] 05 p0659 N84-14334
New polymers for low-gravity purification of cells by phase partitioning
[NASA-CR-170957] 06 p0809 N84-15267
Crazing and fatigue behaviour of one and two phase polymers 06 p0811 N84-15282
Ultrahigh molecular weight aromatic siloxane polymers 06 p0930 N84-16042
Crack healing in polymers
[AD-A134488] 07 p0979 N84-16343
Formation and properties of polymers used in organic matrix composites
[AD-A134502] 07 p0979 N84-16344
Chloride ion conductivity in a plasticized quaternary ammonium polymer
[AD-A135373] 08 p1124 N84-17305
Behavior of an aromatic heterocyclic polymer in salt solution
[AD-A134865] 08 p1138 N84-17401
Active solar heating and cooling program. Polymer stabilization film-forming, high-temperature polymers
[DE84-000093] 11 p1675 N84-20929
A new engineering approach for cable in fire situations using halogenated polymers 11 p1726 N84-21259
Development of an impact- and solvent-resistant thermoplastic composite matrix
[NASA-CR-172285] 12 p1789 N84-21668
Characterization and measurement of polymer wear
[NASA-TM-83628] 12 p1800 N84-21739
Ring tensile test of modified Halthane 88-2
[DE84-005891] 12 p1802 N84-21750
Module degradation catalyzed by metal-encapsulation reactions 12 p1839 N84-21989
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-3] 13 p1961 N84-22745
Carboranylmethylene-substituted phosphazenes and polymers thereof
[NASA-CASE-ARC-11370-1] 13 p1962 N84-22750
Deformation studies of polymers by Fourier transform infrared spectroscopy 13 p1962 N84-22751
Effect of pressure on the mechanical properties of polymers, part 1
[DE84-006311] 13 p1965 N84-22765
Physical properties and structure of ion-containing polymers
[AD-A139137] 14 p2129 N84-23766
A finite difference study of the stretching and break-up of filaments of polymer solutions
[AD-A139258] 14 p2130 N84-23767
Effect of pressure on the mechanical properties of polymers, part 3
[DE84-006653] 14 p2130 N84-23770
Structures and properties of polymers important to their wear behavior 14 p2154 N84-23902
Behaviors of polymer additives under EHL and influences of interactions between additives on friction modification 14 p2154 N84-23908
Achievements and plans of the Solar Thermal Advanced Research Center
[DE84-005480] 14 p2172 N84-24010
Combustion of ammonium perchlorate-polymer sandwiches
[AD-A139873] 15 p2302 N84-24814
Solutions in synthetic and biological polymers
[DE84-007505] 15 p2302 N84-24817
Permeability of polymetric membrane lining materials
[PB84-166859] 15 p2302 N84-24818
Synthesis and investigation of polyimidobenzimidazoles
[AD-A140184] 16 p2471 N84-25838
Polymers which are resistant to ionizing radiation for paints used in light water nuclear power stations
[BLL-RISLEY-TR-4907-(9091.9F)] 17 p2626 N84-26801

Chemical news (selected articles)
[AD-A140887] 17 p2627 N84-26808
Development of high modulus polydiacetylene fibres for use in fibre-reinforced composites
[AD-A140912] 17 p2627 N84-26809
A 3-dimensional finite element analysis of delamination growth in composite laminates. Part 1: The energy methods and case-study problems
[AD-A141248] 18 p2810 N84-27838
Deformation and fracture maps for polymer-foams, solid polymers and polymer-composites
[AD-A141197] 18 p2818 N84-27893
Organosilane polymers. Part 7: Sodium-derived vinylic polysilanes
[AD-A141649] 19 p2984 N84-28912
Non-inertial flow of dilute polymer solutions in a sudden contraction
[BLL-WH-558-(9091.9F)] 20 p3183 N84-30221
Dielectric cure monitoring: Preliminary studies
[NASA-TM-86452] 21 p3369 N84-31378
Effect of polydispersity on the cloud point curves of polymer mixtures
[AD-A143159] 21 p3370 N84-31384
Properties of polymers: Some uses in electronics, part two
[DE84-012864] 21 p3371 N84-31387
Dynamic overstresses in fibrous polymeric materials
[DE84-012805] 21 p3372 N84-31394
Three-dimensional photochemical machining with lasers
[AD-A143928] 23 p3754 N84-33798
The structural chemistry of energetic compounds
[AD-A143955] 23 p3822 N84-34237
USSR report: Chemistry
[JPRS-UCH-84-007] 24 p3867 N84-34508
Polymers as substitutes for metal and lumber
24 p3867 N84-34510
Magnetic record support
[NASA-TM-77619] 24 p3902 N84-34709

POLYMETHYL METHACRYLATE
The development and study of sensitive and process-compatible polymers for X-ray lithography
[BMFT-FB-T-83-122] 02 p0202 N84-11314
Mach disc formation in cylindrical recovery systems
[DE83-015912] 02 p0220 N84-11442
Polymeric glazings
[DE84-000016] 08 p1138 N84-17402
Research on shear stability of polymer-containing hydraulic oils
[REPT-11] 12 p1800 N84-21737
The two-slab burning problem
[AD-A139818] 15 p2287 N84-24719
Service-life induced failure of bird impact resistant windshields
[AD-P003195] 17 p2591 N84-26608
Kinetic-elastic approach for time-dependent rheological data on slurry fuels and polymers
[AD-A141210] 18 p2821 N84-27911

POLYNOMIALS
NT BINOMIALS
NT DYADICS
NT HERMITIAN POLYNOMIAL
Numerical solution of systems of simultaneous polynomial equations
[DE83-015832] 01 p0135 N84-10883
Occupancy models, Bell-type polynomials and numbers and applications to probability
[AD-A130453] 01 p0136 N84-10892
Reduction of structural complexity in evaluating convolutions by polynomial transforms
[FUB-59-1981] 03 p0426 N84-12794
On the Fatou set of monic polynomials
04 p0575 N84-13788
The specific solutions of a uniform algebraic differential equation of the second order 04 p0575 N84-13790
The travelling salesman problem in graphs with 3-edge cutsets
[AD-A133504] 06 p0902 N84-15852
Derivations of a prime ring which satisfy a polynomial identity
[AD-A135435] 08 p1220 N84-17963
Computational methods in number theory, part 1
[MATH-CENTRE-TRACTS-154-PT-1] 08 p1223 N84-17990
Fast arithmetic operations on numbers and polynomials 08 p1224 N84-17992
Factorization of polynomials 08 p1224 N84-17998
Optimum cyclic redundancy codes for noisier channels
10 p1475 N84-19638
An interpolation and compaction technique for gridded data
[AD-A137107] 10 p1569 N84-20276
Harmonizable filtering and sampling of time series
[AD-A137517] 10 p1570 N84-20285
Norm estimates for a maximal right inverse of the divergence operator in spaces of piecewise polynomials
[AD-A136889] 10 p1573 N84-20309
Theory of asymmetric double layers
[AD-A136960] 10 p1573 N84-20311
Fundamentals of mode S parity coding
[DOT/FAA/PM-83/6] 11 p1642 N84-20736
Generalized inverses of matrices and its applications
[AD-A138274] 12 p1894 N84-22337
A computer program for the evaluation of cubic splines
[BAE-BT-11729] 13 p2026 N84-23131
Factoring multivariate integral polynominals
[MC-IW-229/83] 13 p2034 N84-23190
Factoring multivariate integral polynomials, part 2
[MC-IW-230/83-PT-2] 13 p2034 N84-23191
On orthogonal polynomials on a half line and the associated kernel polynomials
[MC-BW-182/83] 13 p2034 N84-23192
Polynomial factorization by root approximation
[MC-IW-242/83] 13 p2035 N84-23201
Bivariate quadratic splines on crisscross triangulations
[AD-P002979] 14 p2202 N84-24215
Density and dimension — the Vapnik-Cervonenkis class of subsets 14 p2211 N84-24275
On a theorem of Szegoe on univalent convex maps of the unit circle
[AD-A139256] 14 p2212 N84-24286
Factoring multivariate polynomials over algebraic number fields
[MC-IW-233/83] 14 p2215 N84-24305
Best approximation in L sub p (W) by algebraic polynomials
[CTH-MATH-1983-20] 14 p2215 N84-24307
Piecewise monotone interpolation and approximation with generalized polynomials 15 p2402 N84-25416
Seminar on Zeroing Methods and Applications, spring trimester, 1983 16 p2540 N84-26304
Remarks concerning the application of polynomial zeroing methods on the algebraic eigenvalue problem
16 p2541 N84-26309
Resolution of singularities of integral quadratic forms
[CTH-MATH-1983-22] 17 p2761 N84-27538
A note on a cyclotomic diophantine equation
[CTH-MATH-1983-28] 17 p2762 N84-27541
Normal magnetic field maps for Caucasus region for epoch 1980 18 p2861 N84-28168
Some results on the diophantine equation X-2+D=Y-N
[CTH-MATH-1984-06] 19 p3091 N84-29624
Slave finite elements: The temporal element approach to nonlinear analysis 21 p3420 N84-31689
Bayesian models for response surfaces, 2: Estimating the response surface
[AD-A142768] 21 p3471 N84-32001
Bayesian models for response surfaces. 1: The equivalence of several models and their relationship to smoothing splines
[AD-A142843] 21 p3472 N84-32003
Solution of simultaneous polynomial equations by elimination in MACSYMA
[DE84-013891] 23 p3818 N84-34211
Representation of the Fokker-Plank collision term for Coulomb interaction as series of Legendre polynomials
[INPE-3232-PRE/582] 24 p3949 N84-35006

POLYNUCLEAR ORGANIC COMPOUNDS
Selective catalytic hydrogenation of polynuclear heteroaromatic nitrogen compounds with polymer-supported transition-metal compounds
[DE84-001326] 04 p0495 N84-13248

POLYPEPTIDES
A study on the gastrointestinal hormones and the gastric acid secretion during physical stress in man
[NDRE/PUBL-83/1001] 10 p1546 N84-20136
General introduction to the study on the gastrointestinal hormones and the gastric acid secretion during physical stress in man 10 p1546 N84-20137
The effect of physical stress on gastric secretion and pancreatic polypeptide levels in man
10 p1546 N84-20138

POLYPHENYL ETHER
Polyphenylene ethers with imide linking groups
[NASA-CASE-LAR-12980-1] 13 p1962 N84-22749

POLYPHENYLS
Polyphenylene ethers with imide linking groups
[NASA-CASE-LAR-12980-1] 13 p1962 N84-22749
Synthesis of monomers for the preparation of regiospecifically substituted poly(phenylacetylenes) as potential chemical detectors
[AD-A144690] 24 p3889 N84-34628

POLYPROPYLENE
High-current, high-frequency capacitors
01 p0011 N84-10067
Stabilized unsaturated polyesters
[NASA-CASE-NPO-16103-1] 22 p3558 N84-32530
Compatibilizing effect of a diblock copolymer of isotactic polystyrene and isotactic polypropylene in blends of the corresponding homopolymers
[AD-A143959] 23 p3724 N84-33601
Electrofilters from polymer materials
24 p3867 N84-34509

POLYSACCHARIDES
NT CELLULOSE
NT DEXTRANS
NT GLYCOGENS

POLYSTYRENE
Effect of modifying additives on the properties of polymer blends
[CSIR-1690] 01 p0049 N84-10313
Effects of surface area and pore size upon liquid chromatographic fractionations of polystyrene oligomers using ethylphenyl derivatized silicas
[DE83-014632] 01 p0051 N84-10327
Evaluation of the separability of monodisperse polystyrene latex microspheres in a continuous flow electrophoresis system 05 p0932 N84-16057
Crack propagation in polystyrene under fixed elongation
[AD-A134749] 08 p1138 N84-17399
Transient horizontal flame spread tests on cellular plastics - experimental results, volume 1
[PB84-135458] 10 p1469 N84-19595
Modeling the mechanical behavior of elastomeric styrene-butadiene-styrene block copolymers
11 p1635 N84-20693
Television system for monitoring target position in laser thermonuclear fusion experiments
13 p1969 N84-22781
Time dependent quasifracture nucleation and propagation 15 p2349 N84-25097
Synthesis of resin polymers for chemical agent defense
[AD-A141035] 18 p2818 N84-27892
Compatibilizing effect of a diblock copolymer of isotactic polystyrene and isotactic polypropylene in blends of the corresponding homopolymers
[AD-A143959] 23 p3724 N84-33601

POLYSULFIDES
Cyclic voltammetry of polysulfide (Thiokol) prepolymers and related compounds
[MRL-R-911] 08 p1136 N84-17387
Electrochemistry of the sulfide-polysulfide couple
[DE84-005861] 11 p1629 N84-20661
Interactions between F-111 fuselage fuel tank sealants. Part 1: Characterisation of polyester sealants and their hydrolytic degradation products
[MRL-R-657-PT-1] 16 p2470 N84-25828

POLYTETRAFLUOROETHYLENE
Diffusely reflecting paints including polytetrafluoroethylene and method of manufacture
[NASA-CASE-GSC-12883-1] 15 p2300 N84-24806

POLYTROPIC PROCESSES
Solution of the Riemann problem for a polytropic gas
[REPT-22] 10 p1457 N84-19517

POLYURETHANE FOAM
Optimization of aircraft seat cushion fire blocking layers
[NASA-TM-85430] 01 p0006 N84-10037
Tensile, compressive, and shear properties of a 64-kg/m3 polyurethane foam at low temperatures
[PB83-204818] 01 p0051 N84-10330
Evaluation of type 2 fast packs for electrostatic discharge properties
[AD-A133158] 06 p0853 N84-15557
Hydrolysis of plastic wastes with the aim of recovering and reprocessing the starting components (recycling)
[BMFT-FB-T-83-199] 08 p1126 N84-17322
Transient horizontal flame spread tests on cellular plastics - experimental results, volume 1
[PB84-135458] 10 p1469 N84-19595
Tensile, comprehensive and sharp properties of a 96 kg/m3 cubic meter Polyurethane foam at low temperatures
[PB84-143643] 11 p1638 N84-20710
High temperature electrical conductivity of rigid polyurethane foam
[DE84-006899] 19 p3018 N84-29137
Preliminary guidelines for maintenance of polyurethane foam (PUF) roofing systems
[AD-A143458] 22 p3560 N84-32543

POLYURETHANE RESINS
Interurethane hydrogen bonding in thermoplastic polyurethane elastomers
[AD-A131368] 02 p0200 N84-11300
Development of a process controlled pressline of enhanced technology for the production of sheet metal parts for the aircraft industry by a high pressure rubber pad system
[BMFT-FB-W-83-006] 05 p0626 N84-14116

Effect of amine surface treatment on the adhesion of a polyurethane to the surface
[AD-A135591] 09 p1288 N84-18406
Durability of adhesive bonds between glass or metal substrates and a polybutadiene-polyurethane
[AD-A137489] 10 p1466 N84-19578
Properties of multiphase polyurethane systems
[AD-A137542] 11 p1637 N84-20703
Properties of polyurethane anionomers: Ionization via bimolecular nucleophilic displacement of the urethane hydrogen
[AD-A137988] 12 p1801 N84-21742
Evaluation of 'Sorbothane' cushioning material
[AD-A139079] 13 p1964 N84-22763
Effects of stress on permeation and polyurethane degradation
[AD-A140260] 16 p2472 N84-25841
Windshield weight reduction through the use of high strength glass and polyurethane interlayers
[AD-P003186] 17 p2590 N84-26599
The need for application of dynamic mechanical analysis in the evaluation of interlayer materials
[AD-P003211] 17 p2594 N84-26624
Aircraft surface coatings
[NASA-CR-165928] 19 p2963 N84-28778
Fluorinated polyurethanes
[AD-D011066] 19 p3000 N84-29011
Durability of adhesive bonds with ionic bonds at the interface — propellant binder adhesion
20 p3144 N84-29960
Creep of six glues
[CETIM-1.3N.16.2] 21 p3372 N84-31398
Properties of UV-cured polyurethane acrylates: Effect of polyol type and molecular weight
[AD-A143176] 22 p3559 N84-32537
Properties of UV-curable polyurethane acrylates: Effect of reactive diluent
[AD-A143241] 22 p3559 N84-32540

POLYVINYL ALCOHOL
Investigations into the burning-out of organic substances in the ceramic body
[NASA-TM-77065] 01 p0049 N84-10315

POLYVINYL CHLORIDE
The influence of surface roughness on the transfer and wear of polymers
[AD-A133527] 06 p0810 N84-15275
Vacuum outgassing of various materials
[DE84-004812] 11 p1626 N84-20644
PVC (polyvinylchloride) pipe reliability and failure modes
[DE84-013862] 23 p3725 N84-33604

POLYVINYL FLUORIDE
Origin of pyroelectricity in polyvinilydene fluoride
[DE83-015227] 02 p0201 N84-11311
Hysteresis in copolymers of vinylidene fluoride and trifluoroethylene
[AD-A137446] 10 p1466 N84-19577
Mechanical and physical properties of poly(vinylidene fluoride) at high pressures and temperatures
[AD-A137842] 11 p1637 N84-20705
Foamable PVDF fluoroplastic for wire and cable applications 11 p1722 N84-21230

PONDEROMOTIVE FORCES
Ponderomotive effects in nonneutral plasmas
[AD-A132109] 04 p0606 N84-13998
Beat-wave current drive in a magnetized plasma
[DE84-001556] 07 p1077 N84-17003
A rf-induced stability of mirrors with inverted pressure profiles
[DE84-007018] 13 p2045 N84-23273
Monte Carlo studies of tandem mirror plasmas interacting with waves in the Ion Cyclotron Range of Frequencies
[DE84-006901] 18 p2934 N84-28605
RF-induced stability and transport in axisymmetric tandem mirrors
[DE84-010842] 20 p3306 N84-30999

PONDS
Predicting lake ice decay
[AD-A132012] 03 p0401 N84-12618
Calibration of laboratory bioassays with results from microcosms and ponds
[DE83-017224] 04 p0560 N84-13692

PONTRYAGIN PRINCIPLE
A high-order test for optimality of bang-bang controls
[AD-A136375] 09 p1371 N84-18954

POPULATION INVERSION
Near millimeter wave action in n-GaAs
[AD-A138602] 13 p2042 N84-23252
A proposed technique for creation and detection of hot electron ionization and gain effects in a laser-produced tin plasma
[AD-A144025] 23 p3828 N84-34281

POPULATION THEORY
Smooth solutions to a quasi-linear system of diffusion equations for a certain population model
[AD-A129180] 01 p0128 N84-10839
Deterministic models in mathematical demography: An investigation of stable population theory including an analysis of the population statistics of Denmark
03 p0428 N84-12806
A 3-component system of competition and diffusion
[AD-A132960] 05 p0738 N84-14844
Directed graphs and traveling waves
[AD-A132861] 05 p0738 N84-14845
On Bayes and empirical bayes rules for selecting good populations
[AD-A133336] 06 p0904 N84-15869
An estimation problem relating to subset selection for normal populations
[AD-A133387] 06 p0904 N84-15870
Population control of self-replicating systems: Option C 06 p0930 N84-16044
The dynamics of structured populations: Some examples
[MC-TW-241/83] 07 p1064 N84-16906
On the stability of the cell size distribution
[MC-TW-242/83] 07 p1065 N84-16907
Isotonic procedures for selecting populations better than a standard: Two-parameter exponential distributions
[AD-A135445] 08 p1223 N84-17985
Parameter estimation for the four parameter beta distribution
[AD-A138062] 12 p1893 N84-22333
Diophantine inferences from statistical aggregates on few-valued attributes
[AD-A138365] 12 p1919 N84-22501
Bifurcation of map resonance 1 : 4
[MC-TW-245/83] 13 p2035 N84-23204
Properties of a new rank statistic for comparing two populations in an arbitrary right censoring sampling scheme
[AD-A139640] 15 p2400 N84-25400
Subset selection procedures: A review and an assessment
[AD-A140266] 16 p2551 N84-26368
Evaluation of insecticides, repellents, and other approaches to the control of coastal stand flies, culicoides spp
[AD-A141132] 19 p3063 N84-29435
On the stable size distribution of populations reproducing by fission into two unequal parts
[CWI-AM-R8401] 19 p3092 N84-29633
A fast method for computer image enhancement
[INPE-3170-PRE/540] 21 p3465 N84-31965
An optimal sequential Bernoulli selection procedure
[AD-P003841] 24 p3939 N84-34929

POPULATIONS
On two-stage bayes selection procedures
[AD-A130301] 01 p0136 N84-10890
Energy use: The human dimension
[DE84-001405] 05 p0714 N84-14676
Estimation of small area populatons using remote sensing and other approaches
[DE84-003404] 08 p1178 N84-17678
A study of personal exposure to carbon monoxide in Denver, Colorado
[PB84-146125] 12 p1866 N84-22161
The planet crossing asteroid survey: Progress in the analysis of populations and terrestrial-planet cratering rates 13 p2075 N84-23449
The use of an image registration technique in the urban growth monitoring
[E84-10147] 16 p2508 N84-26095
Activities in applied systems analysis
21 p3475 N84-32026

PORCELAIN
Performance criteria for restoration coatings for porcelain enamel surfaces
[PB84-141787] 11 p1638 N84-20709

PORES
U POROSITY

POROSITY
NT MICROPOROSITY
Mechanical response of fluid-filled poroelastic solids
03 p0387 N84-12525
Effects of microstructure and pore fluids on the acoustic properties of granular materials
[AD-A131983] 03 p0408 N84-12668
Mechanisms of elevated-temperature rupture in single-phase ceramics
[DE83-017779] 04 p0508 N84-13327
Elastic-wave scattering from multiple voids (porosity)
[DE83-016076] 04 p0546 N84-13598
Porosity decrease in laser welds of stainless steel using plasma control
[DE84-002194] 05 p0688 N84-14521
A report on superfluid helium flow through porous plugs for space science applications 06 p0930 N84-16043
Characterization and analysis of cavity development during creep of ceramics at elevated temperature
[DE84-003113] 07 p0979 N84-16345
Deformation and fracture of P/M titanium alloys
[AD-A135612] 09 p1283 N84-18378
Porous electrodes 1: Numerical simulation using random network and single pore models
[AD-A138382] 12 p1793 N84-21695
Characterization of zirconium alloy oxidation films by alternating current impedence
[DE84-006225] 13 p1965 N84-22766
Solubility of hydrogen in metals and its effect of pore-formation and embrittlement
[NASA-CR-173399] 14 p2127 N84-23751
Structure and porosity of electrodeposited platinum: Evaluation of 4 plating methods
[PB84-152933] 14 p2129 N84-23763
Convective heat transfer in porous media
15 p2317 N84-24903
Development of molten carbonate fuel cell technology
[DE84-004856] 15 p2364 N84-25183
Passage of waves in fluids through damping interlayers and their interaction with barrier
17 p2647 N84-26934
Gel structures in leached alkali silicate glass
[DE84-009928] 18 p2819 N84-27899
Some specifics of influence of pore pressure on physical properties of deformable rocks
18 p2864 N84-28180
Experimental study on porous-plug phase separator for superfluid He2
[ISAS-612] 20 p3308 N84-31008
Comparative studies of vapor and liquid-phase impregnation of porous silicon nitride and silicon carbide materials
[DE84-012867] 21 p3359 N84-31309
Microfacies, depositional environments and diagenesis of the Amapa carbonates (Paleocene - Middle Miocene) Foz Do Amazonas Basin, offshore northeast Brazil
21 p3439 N84-31817
Microfacies, depositional models and diagenesis of Lagoa Feia Formation (lower cretaceous), Campos Basin, offshore Brazil 21 p3440 N84-31827
Computer calculated analysis of subsurface formation porosities in central New York state
22 p3620 N84-32941
Mechanical properties of components made from powders received by processing low-grade porous titanium 23 p3707 N84-33500
Porosity and environment 24 p3882 N84-34593

POROUS MATERIALS
Apparatus analysis and preliminary design of low gravity porous solids experiment for STS Orbiter mid-deck
[NASA-CR-168248] 01 p0017 N84-10109
Numerical method for computing flow through partially saturated porous media
[DE83-007910] 01 p0061 N84-10529
Fingers in a Hele-Shaw cell with surface tension
[AD-A130548] 01 p0130 N84-10852
Nonlinear response and noise transmission of double wall sandwich panels 02 p0187 N84-11215
SAGUARO: A finite-element computer program for partially saturatnd porous flow problems
[DE83-015603] 02 p0219 N84-11438
Asymptotic expansions of the pressure and the free boundary for flows through porous media
[PREPRINT-584] 02 p0221 N84-11448
Convection in horizontal porous media with different end temperatures 03 p0374 N84-12438
Double porosity model for acoustic wave propagation in fractured-porous rock
[DE83-017823] 03 p0431 N84-12623
Battery transport data
[DE84-001640] 04 p0526 N84-13462
Construction and verification of a finite-element method for nonisothermal flows in porous media
[DE83-017158] 04 p0536 N84-13522
The interfaces of one-dimensional flows in porous media
[AD-A132862] 05 p0681 N84-14478
Heat and mass transfer during the growth and dissociation of gas hydrates in porous media
[PB83-255414] 05 p0682 N84-14482
A coordinate transformation for the porous media equation that renders the free-boundary stationary
[AD-A132839] 05 p0737 N84-14842
Theory of pulse propagation in fluid saturated porous layers
[DE84-002714] 07 p1003 N84-16503
Mathematical methodology for evaluating simulation of flow in porous media
[DE84-004775] 09 p1316 N84-18601
Numerical modeling of parametric uncertainties in flow thrcugh porous media: Development and initial testing of PORSTAT
[DE84-006682] 11 p1654 N84-20798

Effects of a porous plug on orifice induced static pressure error
12 p1764 N84-21507
Effect of pressure on the static and dynamic acoustic properties of porous rubber
[AD-A138744] 13 p1983 N84-22756
Acoustic-to-Seismic coupling over porous ground surfaces
[AD-A138753] 13 p2011 N84-23046
Transparent aerogels for low-conductance windows
16 p2517 N84-26157
Interaction of air shock waves and porous shield
17 p2645 N84-26922
Studies of acoustical properties of bulk porous flexible materials
[NASA-CR-173622] 17 p2762 N84-27544
Surface acoustic admittance and absorption of highly porous, layered, fibrous materials
17 p2762 N84-27545
Acoustic structure and propagation in highly porous, layered, fibrous materials 17 p2762 N84-27546
Absorptive surfaces of extended reaction angle of incidence considerations 17 p2763 N84-27547
Contributions to the theory of sound propagation in ducts with bulk-reacting lining
[NLR-MP-83064-U] 17 p2783 N84-27551
Some recent progress in steep front calculations for porous flow
[DE84-006249] 19 p3025 N84-29183
Laser damage in porous-silica antireflection films
[DE84-009535] 19 p3030 N84-29216
Thin flame model for reactive flow in porous materials
[DE84-011406] 20 p3150 N84-30002
Diffusion of gases in porous solids: Simulations and measurements
[DE84-010822] 20 p3185 N84-30241
Flow of foam through porous media
[DE84-012410] 20 p3186 N84-30246
Propagation of acoustic waves in partially saturated porous media
[DE84-010536] 20 p3291 N84-30896
New approach to the effective stress principle
[DE84-006963] 21 p3401 N84-31574
Molten carbonate fuel cell performance model update
[DE84-012932] 22 p3589 N84-32733
Natural convection in porous media: An experimental and numerical study for vertical annular and rectangular enclosures 22 p3592 N84-32744
The effects of porous material on microbubble skin friction reduction
[AD-A143401] 22 p3593 N84-32756
A theoretical study of resin flows for thermosetting materials during prepreg processing
[NASA-CR-172442] 23 p3724 N84-33596
Evaluation of the pavement condition index for use on porous friction surfaces
[AD-A144521] 24 p3857 N84-34453
Highly porous powder-fiber composite materials
24 p3872 N84-34538

POROUS PLATES

Porous catalytic metal plate degeneration bed in a gas generator
[AD-D011078] 21 p3373 N84-31407

POROUS WALLS

Prediction of resonance frequencies for ventilated wall wind tunnels 14 p2097 N84-23580
Reciprocating magnetic refrigerator employing tandem porous matrices within a reciprocating displacer
[NASA-CASE-NPO-16257-1] 15 p2305 N84-24830

PORPHYRINS

NT CHLOROPHYLLS

Investigation of the structure of photosynthetic reaction centers
[DE84-002686] 07 p1043 N84-16760
Electrocatalysis of oxygen using water soluble metal porphyrins and chemically modified porphyrin electrodes
[AD-A136062] 09 p1280 N84-18358
Electrochemical and spectroelectrochemical studies of some coordination compounds in high oxidation states
[DE84-006637] 14 p2123 N84-23727
Enhanced solar energy collection in porphyrin based photoconversion schemes
[DE84-006882] 14 p2173 N84-24015
Investigation of the structure of photosynthetic reaction centers
[DE84-012475] 20 p3150 N84-30005

PORTABLE EQUIPMENT

A portable, microprocessor controlled, multichannel fluorometer for marine analysis
[AD-A130161] 01 p0083 N84-10542
The JILA (Joint Institute for Laboratory Astrophysics) portable absolute gravity apparatus
[AD-A132199] 05 p0684 N84-14495
A portable real-time data processing system for standard meteorological radiosondes
[NASA-CR-175358] 07 p1036 N84-16719
Analysis of technical possibilities for further sharing of the UHF television band by the land mobile services in the top ten land mobile markets
[PB84-123116] 08 p1148 N84-17470
Target track and stabilization for manportable direct fire missiles
[AD-A136219] 09 p1271 N84-18306
The construction of a highly transportable laser ranging station
[NASA-CR-175400] 10 p1500 N84-19803
JDF-1 small light-weight electric eddy current oscillator
[AD-A137572] 11 p1646 N84-20761
MA-2026 environmental monitoring system
[DE84-006222] 11 p1676 N84-20938
A transportable cryostat
[NAL-TR-791] 12 p1818 N84-21850
Technique for modal data acquisition in remote locations using hand portable instrumentation
[DE84-005755] 12 p1819 N84-21854
Two-dimensional scanner apparatus — flaw detector in small flat plates
[NASA-CASE-MFS-25687-1] 13 p1992 N84-22926
Synchronization technique of data recorded on a multichannel tape recorder
[AD-A139570] 14 p2148 N84-23868
Portable device for detecting and identifying hazardous vapors
[DE84-003640] 14 p2148 N84-23870
Effect of bandwidth and interference rejection on the spectrum efficiency of land mobile radio systems
[PB84-158369] 17 p2654 N84-26978
Performance of telecommunications systems in a random probabilistic environment. Task 2: Single source interference with random parameters
[PB84-158534] 17 p2655 N84-26981
Analyzer for determining helium-4 in the part-per-billion range
[PB84-189554] 20 p3191 N84-30272
Electric arc saw apparatus
[DE84-006153] 20 p3196 N84-30306
The acoustic design of outside broadcast vehicles
[BBC-RD-1984/3] 21 p3381 N84-31454
Portable electromagnetic flaw detector for metal products 23 p3706 N84-33493
Portable reflectance spectrometer
[NASA-CASE-NPO-13556-1] 23 p3749 N84-33766
Portable, sequential air sampler
[AD-D011169] 23 p3793 N84-34057

PORTABLE LIFE SUPPORT SYSTEMS

Evaluation of proposed human subject certification tests for self-contained breathing apparatus
[PB84-172212] 17 p2748 N84-27447

POSITION

Selection of elements in process schemes on Cathode Ray Tube (CRT). A comparative study between four types of trackballs
[IZF-1984-4] 20 p3182 N84-30213

POSITION (LOCATION)

NT SOLAR POSITION

Investigation of effects of microphone position and orientation on near-ground noise measurements
[NASA-TP-2004] 01 p0139 N84-10913
Hazardous location identification by computer
[CSIR-TR-RF/6/81] 04 p0578 N84-13814
Geophysical data from drifting ice stations FRAM 4 and TRISTEN
[AD-A133370] 06 p0866 N84-15640
On the utilization of ionospheric diagnostics in the single-site location of HF emitters
06 p0870 N84-15661
Spatiotemporal characteristics of visual localization
[AD-A133952] 06 p0888 N84-15770
Spatial localization in strabismic observers
[AD-A132748] 06 p0890 N84-15784
A review of underwater acoustic systems and methods for locating objects lost at sea
[NASA-TM-85727] 06 p0908 N84-15866
Monitoring of ship routes via satellite
[DFVLR-MITT-83-15] 07 p0963 N84-16240
Study on deep-hole boring by BTA system solid boring tool: Burnishing effect and guiding action of tool head
07 p0964 N84-16372
NODC (National Oceanographic Data Center) inventory of XBT data along transects in U.S. Atlantic and Gulf coastal waters from NMFS/MARD ship of opportunity program for 1981
[PB84-122662] 06 p1197 N84-17802
The rapidly moving telescope: An instrument for the precise study of optical transients
09 p1407 N84-19193
Position determination with Loran-C triplets using the Hewlett-Packard HP-67C, the Sharp PC-1500 (TRS-80 PC-2) or the Radio Shack TRS-80 model 100 portable computers
[AD-A137009] 10 p1426 N84-19327
Applicability of stellar rate for astronomic position determination
[AD-A135845] 10 p1595 N84-20452
Polarized-interferometer feasibility study
[NASA-CR-170979] 11 p1656 N84-20605
Location errors in time-of-arrival types of systems with augmenting equations
[DE84-006250] 11 p1717 N84-21198
Satellite data relay and platform locating in oceanography. Report of the In Situ Ocean Science Working Group
[NASA-TM-85443] 12 p1860 N84-22116
Formal and group Picard localization
13 p2032 N84-23174
Disorientation in helicopter flight
16 p2536 N84-26284
Navstar Global Positioning System overview
[AD-A140793] 17 p2605 N84-26691
Effects of spacecraft reflections on RF interferometer position location accuracy
[NASA-CR-175244] 18 p2828 N84-27955
Diagnosing a PDS microdensitometer
18 p2839 N84-28021
Performance testing of the high altitude observatory PDS microdensitometer 18 p2839 N84-28022
Photometric and positional accuracy of the PDS Bonn in view of astronomical requirements
18 p2839 N84-28023
Localization of X-ray bright spots relative to cells in solar chromospheric grid 19 p2974 N84-28854
The program ORBDOP (extended GEODOP) — satellite position 19 p3039 N84-29280
Final results of Doppler point positioning at several timekeeping laboratories in Europe
19 p3039 N84-29282
New approaches to robust confidence intervals for location: A simulation study
[AD-A142248] 19 p3094 N84-29648
Pulmonary artery location during microgravity activity: Potential impact for chest-mounted Doppler during space travel
[NASA-TM-58262] 21 p3457 N84-31935
Bi- and poly-optimal confidence limits for a location and parameter
[AD-A142980] 21 p3473 N84-32012
Geometrical relationships of Pioneer 11 to Uranus and Voyager 2 in 1985-86
[NASA-CR-173675] 22 p3539 N84-32406
Three precise gamma-ray burst source locations
[NASA-TM-86132] 22 p3660 N84-33332
Interactive Automatic System (Iasp): An expert system to help photointerpretation 23 p3779 N84-33961
Robust confidence intervals for a scale parameter: A compromise between the Gaussian and the slash
[AD-A143666] 23 p3820 N84-34223
An extended real-time microwave airplane position system 24 p3850 N84-34419
A digital linear position sensor for flight control actuation
[AD-A144283] 24 p3856 N84-34448

POSITION (TITLE)

Toward an interpersonal paradigm for superior-subordinate communication
[AD-A135863] 10 p1551 N84-20186

POSITION ERRORS

NT BORESIGHT ERROR

Feed error effects on lens performance
[AD-P003513] 21 p3385 N84-31481

POSITION INDICATORS

NT PLAN POSITION INDICATORS
NT RADIO DIRECTION FINDERS

Crash Position Indicator/Crash Survivable Flight Data Recorder ejectable versus nonejectable
[AD-A132329] 04 p0484 N84-13184
Optimal delay estimation in a multiple sensor array having spatially correlated noise
[AD-A133610] 05 p0734 N84-14820
Passive source localization from spatially correlated angle-of-arrival data
[AD-A133141] 06 p0822 N84-15362
Aircraft control position indicator
[NASA-CASE-LAR-12984-1] 11 p1607 N84-20522
Celestial pattern recognition allowing autonomous earth-surface or deep-space positioning
[AD-A138115] 12 p1768 N84-21529
An evaluation of a Honda Electro Gyro-Cator land navigation system
[AD-A138293] 12 p1768 N84-21532
The initial orientation of homing pigeons on the magnetic equator, with and without Sun compass
[INPE-3104-PRE/503] 16 p2534 N84-26271
Synchronization tracking in pulse position modulation receiver
[NASA-CASE-NPO-16256-1] 22 p3572 N84-32620

POSITIONING
Reports on cartography and geodesy, series 1: Original reports, number 90
[ISSN-0469-4236] 08 p1173 N84-17643
Investigations of Doppler position determination following the short arc and semi short arc techniques — Navy navigation satellite systems 08 p1174 N84-17645
Calibration measurements of Doppler receivers — satellite Doppler positioning 08 p1174 N84-17647
Results of the simultaneous Doppler measuring campaign HOTDOC from 29 September to 10 October 1979 08 p1174 N84-17648
An error analysis of range-azimuth positioning
[AD-A136775] 10 p1525 N84-19990
Airborne real time multisensor navigation
[AD-B079957] 12 p1768 N84-21534
Geometric modeling of large space antenna deployment 12 p1876 N84-22225
Performance evaluation of a Magnavox GPS (Global Positioning System) Z-set
[AD-A138569] 13 p1929 N84-22547
Test of a system for positioning: Sensitron
[FOA-C-20519-D8] 15 p2336 N84-25023
A seaborne navigation trial utilising a Differential Omega system
[ERL-0295-TM] 17 p2604 N84-26684
Optimal position of solar arrays on sunsychronous satellites
[INPE-3010-RPE/454] 17 p2614 N84-26732
Doppler observation campaign in the Ivory Coast: Reconnaissance, measuring, interpretation and experience 19 p3040 N84-29269

POSITIONING DEVICES (MACHINERY)
NT BOOMS (EQUIPMENT)
NT CAMS
Testing and control of a compliant wrist
[AD-A140842] 17 p2748 N84-27445
Workpiece positioning vise
[NASA-CASE-GSC-12762-1] 18 p2848 N84-28063
Shaft positioning device
[AD-D011087] 22 p3605 N84-32836
Ground test article for deployable space structure systems
[NASA-CR-171158] 24 p3858 N84-34457

POSITIVE FEEDBACK
The queue G/G/k: Finite moments of the cycle variables and uniform rates of convergence
[CTH-MATH-1983-24] 13 p2037 N84-23218

POSITIVE IONS
Charge transfer cross-sections for N V and S III ions interacting with hydrogen atoms in astrophysical plasmas 02 p0307 N84-12014
Method and source for producing a high concentration of positively charged molecular hydrogen or deuterium ions
[DE84-011030] 20 p3295 N84-30918
Fracto-emission from graphite/epoxy composites
[NASA-CR-173845] 21 p3357 N84-31291

POSITRON ANNIHILATION
Differences between positrons and electrons in elastic and inelastic processes at surfaces
[DE84-001208] 06 p0916 N84-15953

POSITRONS
Positron spectroscopy applied to the analysis of surfaces
[DE82-006836] 01 p0038 N84-10238
Intense positron beams: Linacs; preworkshop copy
[DE83-012941] 01 p0146 N84-10958
Measurements, in vivo, of parameters of the dopamine system
[DE83-017964] 03 p0414 N84-12709
Physics with polarized beams in e+e(-) colliders
[DE83-016441] 04 p0602 N84-13976
Measurement of the energy resolution and related properties of an SCG1-C scintillation glass shower counter array for 1 to 25 GeV positrons
[DE84-007246] 14 p2148 N84-23871
Pair production rates in mildly relativistic, magnetized plasmas
[NASA-TM-86103] 15 p2405 N84-25434
Engineering basis for selection of positron source material
[DE84-011772] 21 p3494 N84-32143
Acceleration of high charge density electron beams in the SLAC linac
[DE84-012415] 21 p3497 N84-32161
Photon-photon absorption and the uniqueness of the spectra of active galactic nuclei
[NASA-TM-86117] 21 p3526 N84-32338
Joint services electronics program
[AD-A144445] 24 p3898 N84-34685
Elastic scattering of positrons with hydrogen and lithium atoms at intermediate energies
[DE84-701187] 24 p3962 N84-35092

POSTFLIGHT ANALYSIS
Space Processing Applications Rocket (SPAR) project SPAR 7
[NASA-TM-82535] 01 p0018 N84-10112
Final STS-11 (41-B) best estimate trajectory products: Development and results from the first Cape landing
[NASA-CR-172349] 18 p2802 N84-27786

POSTMISSION ANALYSIS (SPACECRAFT)
Final STS-11 (41-B) best estimate trajectory products: Development and results from the first Cape landing
[NASA-CR-172349] 18 p2802 N84-27786

POSTULATES
U AXIOMS

POTABLE LIQUIDS
NT POTABLE WATER

POTABLE WATER
A rodent water dispensing system for use in hypobaric chambers
[AD-A141167] 18 p2894 N84-28362
Application of the finite compartment model of carbon adsorption to binary systems
[AD-A141483] 19 p2968 N84-28932
Biocidal quaternary ammonium resin
[NASA-CR-171802] 19 p3063 N84-29433

POTASSIUM
High pressure equation of state of Li, Na and K
[DE83-014844] 02 p0191 N84-11238
Piston-displacement equations of state for sodium, potassium, and rubidium metals to 20 kbar from 300 K to 4 K
[DE83-018079] 03 p0347 N84-12252
Development of new intercalated cathode materials for use in sodium batteries
[NASA-CR-173145] 07 p0997 N84-16460
Cellular localization of Na(+), K(+)-ATPase in the mammalian vestibular system 09 p1359 N84-18880
Effects of dietary sodium intake on body and muscle potassium content in unacclimatized men during successive days of work in the heat 10 p1549 N84-20153
A laboratory manual for the determination of metals in water and wastewater by atomic absorption spectrophotometry
[CSIR-TECH-GUIDE-K63] 11 p1628 N84-20653
Chemical modification of surfaces: The effect of potassium on the chemisorption of molecules on transition metal crystal surfaces
[DE84-008345] 14 p2244 N84-24473

POTASSIUM CHLORIDES
Examination of the electrochemical behaviour of titanium in the LiCl-KCl melt
[BLL-OA-TRANS-3010-(6196.3)] 01 p0042 N84-10273
Salton Sea Geothermal Field, California, as a near-field natural analog of a radioactive waste repository in salt
[DE84-003851] 09 p1346 N84-18794
A technique for increasing the optical strength of single-crystal NaCl and KCl through temperature cycling
[AD-A138280] 12 p1820 N84-21867

POTASSIUM COMPOUNDS
NT POTASSIUM CHLORIDES
NT POTASSIUM HYDROXIDES
NT POTASSIUM PERCHLORATES
NT POTASSIUM PHOSPHATES
Intercalate phonon densities of states for alkali-graphite compounds
[DE83-016515] 02 p0188 N84-11225
Phonon dispersion of transverse basal-plane modes in alkali-graphite compounds
[DE83-003910] 03 p0350 N84-12273
Development of electrolysis-cell separator for 1250C operation. Advanced alkaline electrolysis cell development
[DE84-000439] 04 p0530 N84-13484
Improper ferroelectricity: A theoretical and experimental investigation
[AD-A138401] 12 p1898 N84-22362

POTASSIUM HYDROXIDES
Temperature limitation of primary and secondary alkaline battery electrodes
[DE83-015009] 02 p0214 N84-11404
Diffusion mass transfer of KOH through Ni/Zn battery membrane separators
[DE83-014551] 03 p0367 N84-12387
Characterization of high-temperature vapor-phase species and vapor-solid interactions of import to combustion and gasification processes in the energy technologies
[DE83-015166] 04 p0494 N84-13242
Active material redistribution rates in zinc electrodes: Effect of alkaline electrolyte compositions having reduced zinc oxide solubility
[DE84-010709] 21 p3392 N84-31525

POTASSIUM PERCHLORATES
Surface compatibility studies of potassium perchlorate reaction with pyrotechnic fuels
[DE84-002829] 08 p1140 N84-17412
Potassium perchlorate reaction with pyrotechnic fuels
[DE84-002840] 08 p1140 N84-17413

POTASSIUM PHOSPHATES
Characterization by X-ray topography of laser-induced damage in potassium dihydrogen phosphate crystals
[DE83-012045] 03 p0454 N84-12985
Damage thresholds of fused silica, plastics and KDP crystals measured with 0.6-ns 355-nm pulses
[DE84-009534] 18 p2847 N84-28080

POTENTIAL ENERGY
NT BIOELECTRIC POTENTIAL
NT COULOMB POTENTIAL
NT ELECTRIC POTENTIAL
NT GEOPOTENTIAL HEIGHT
NT IONIZATION POTENTIALS
NT LIENARD POTENTIAL
NT LOW VOLTAGE
NT OPEN CIRCUIT VOLTAGE
NT PHOTOVOLTAGES
NT PLASMA POTENTIALS
Interaction potentials in substitutional solid solutions
[BLL-M-35132-(5828.4)] 01 p0152 N84-10998
Application of quantum chemistry to atmospheric chemistry — uranium oxide
[AD-A133836] 05 p0648 N84-14261
The stability of elliptical stellar disks. Balanced disks
[PR-826] 09 p1385 N84-19043
Linear and nonlinear finite elements
[AD-A138468] 12 p1895 N84-22341
Prediction of transition states and thermochemistry for combustion reactions
[AD-A140738] 17 p2619 N84-26761
Influence of electric fields on potential waves in Earth's magnetosphere 17 p2705 N84-27225
Quantum chemical study of methane oxidation species
[NASA-CR-173819] 19 p2987 N84-28928

POTENTIAL FIELDS
Potential transport errors in single-layer wind fields
[DE84-003446] 11 p1675 N84-20932

POTENTIAL FLOW
A conformal mapping technique for nonsymmetric potential flows with separation 02 p0173 N84-11138
The treatment of convected vortices in compressible potential flow 03 p0324 N84-12121
The Tracked Wing In Ground-Effect (TWIG) 03 p0330 N84-12155
Development of a computer code for a three-dimensional higher order panel method for subsonic potential flow
[FFA-138] 04 p0479 N84-13155
Dynamics of a mobile tank partially filled with liquid: Equations of motion and their linearization
[WU-PAPER-174] 05 p0678 N84-14460
Nonlinear Green's function method for transonic potential flow 06 p0779 N84-15104
Calculation of transonic flow around two wing-fuselage combinations using a full potential equation method
[FFA-137] 06 p0783 N84-15132
Characterization of the pressure wave originating in the explosion of a gas cloud 06 p0836 N84-15446
Numerical computation of transonic flow governed by the full-potential equation 06 p0839 N84-15469
Numerical modeling and fast-solver calculation of approximately normal shocks
[NLR-MP-82026-U] 06 p0902 N84-15856
Some new developments in exact integral equation formulations for sub- or transonic potential flow
[NLR-MP-82024-U] 06 p0903 N84-15860
Potential flow analysis of glaze ice accretions on an airfoil
[NASA-CR-168282] 07 p0947 N84-16146
Trailing edge flow conditions as a factor in airfoil design
[NASA-CR-173294] 08 p1098 N84-17140
Computation of potential flows with embedded vortex rings and applications to helicopter rotor wakes
[NASA-CR-166542] 08 p1156 N84-17526
Development of a computer code for 3-dimensional higher order panel method for subsonic potential flow
[FFA-138] 09 p1253 N84-18180
Delta wings with shock-free cross flow
[NASA-CR-172297] 10 p1419 N84-19282
COMFLO: An experimental program for multigrid treatment of subsonic potential flows past airfoil profiles
[PREPRINT-604] 10 p1423 N84-19302
Numerical solution of three-dimensional unsteady transonic flow over wings including inviscid/viscous interactions
[NASA-CR-166561] 11 p1600 N84-20478
Entropy condition satisfying approximations for the full potential equations of transonic flow
[NASA-TM-85751] 11 p1601 N84-20485

Potential flow through a cascade of alternately displaced circular bodies: The rod-wall wind tunnel boundary conditions
[NASA-TM-85750] 11 p1601 N84-20487
Test-engine and inlet performance of an aircraft used for investigating flight effects on fan noise
[NASA-TP-2254] 11 p1729 N84-21277
Development of MCAERO wing design panel method with interactive graphics module
[NAS 1.60:3775] 14 p2104 N84-23623
Numerical boundary conditions for flow problems
[AD-P002960] 14 p2200 N84-24200
Calculation of transonic potential flow past wing-tail-fuselage configurations using the multigrid method 17 p2599 N84-26657
Integrating multigrid relaxation into a robust fast-solver for transonic potential flows around lifting airfoils
[NLR-MP-83021-U] 17 p2601 N84-26673
Transonic panel method for the full potential equation applied to multi-component airfoils
[NLR-MP-83030-U] 17 p2601 N84-26674
PAN AIR: A computer program for predicting subsonic or supersonic linear potential flows about arbitrary configurations using a higher order panel method. Volume 1: Theory document (version 1.1)
[NASA-CR-3251] 18 p2788 N84-27697
Behaviour of a vortex sheet separating from a smooth surface
[RAE-TR-77058] 18 p2836 N84-27998
PAN AIR summary document (version 1.0)
[NASA-CR-3250] 19 p2957 N84-28741
A ring source method for predicting the aerodynamic characteristics of bodies of revolution
[COA-8409] 19 p2957 N84-28744
Implementation of uniform perturbation method for potential flow past axisymmetric and two-dimensional bodies
[NASA-CR-173829] 20 p3125 N84-29851
Multiple grid methods for equations of the second kind with applications in fluid mechanics
[MATH-CENTRE-TRACTS-163] 21 p3474 N84-32018
Representation of potential flow about axisymmetric bodies with discrete singularities
[AD-A143526] 22 p3594 N84-32760
PAN AIR: A computer program for predicting subsonic or supersonic linear potential flows about arbitrary configurations using a higher order panel method. Volume 4: Maintenance document (version 1.1)
[NASA-CR-3254] 23 p3690 N84-33388
Refined methods of aeroelastic analysis and optimization — swept wings, propeller theory, and subsonic flutter
[NASA-CR-173967] 23 p3760 N84-33835

POTENTIAL GRADIENTS
New book discusses normal geomagnetic field 18 p2859 N84-28156

POTENTIAL THEORY
Analytical evaluation of the potential due to a uniformly charged planar triangular region
[AD-A130810] 01 p0138 N84-10907
Least square approximation by linear combinations of multipoles
[AD-A134069] 05 p0741 N84-14867
Iterative solution of the finite difference potential equations for subsonic and transonic flows 06 p0835 N84-15436
Finite element methods for potential flows 06 p0835 N84-15437
Annals of the Fourier Institute, volume 33, no. 4
[ISSN-0373-0956] 13 p2031 N84-23172
Thin sets in nonlinear potential theory 13 p2032 N84-23178
New hydrodynamic potentials and a free boundary value problem of the stationary Stokes equation
[PREPRINT-636] 17 p2760 N84-27524
Hyperharmonic cones and hyperharmonic morphisms
[ISBN-951-41-0476-5] 21 p3475 N84-32027
An application of fine potential theory to prove a Phragmen Lindeloef theorem 22 p3635 N84-33043

POTENTIOMETERS (INSTRUMENTS)
Performance evaluation of sensors
[AD-P002675] 11 p1657 N84-20812

POTENTIOMETRIC ANALYSIS
Potentiostatic investigation of the kinetics of the breakdown of the passivity of aluminium in aqueous medium
[BLL-OA-TRANS-3066-(6196.3)] 06 p0804 N84-15238
Bimetal and multimetal galvanic corrosion prediction using long- and short-term polarization curves
[AD-A139893] 15 p2297 N84-24786
A new electrochemical technique for evaluation of susceptibility to pitting corrosion
[AERE-M-3372] 18 p2817 N84-27883

POTENTIOMETRY
U POTENTIOMETRIC ANALYSIS

POTTING COMPOUNDS
Development of alternate silicone potting compounds. Volume 11: Influences of temperature, material variables and composition variables on the properties of substitute potting compounds
[DE83-013025] 01 p0051 N84-10326

POWDER (PARTICLES)
NT METAL POWDER
NT POWDERED ALUMINUM
Method of manufacturing ceramic shaped articles
[NASA-TM-77242] 01 p0057 N84-10370
Automated thermal conductivity probe and applications to powders
[DE84-000451] 04 p0508 N84-13328
Component temperature versus laser-welding parameters
[DE84-000362] 04 p0541 N84-13559
Behavior of aluminum on the burning surface of a solid propellant 05 p0662 N84-14351
Screening and classification of ceramic powders
[NASA-TM-77092] 06 p0809 N84-15270
Specific heat of octahydro-1,3,5,7tetranitro-1,3,5,7-tetrazocine (HMX)
[AD-A134564] 07 p0966 N84-16260
Powder fed sheared dispersal particle generator
[NASA-CASE-LAR-12785-1] 07 p1011 N84-16561
Air-jet milling of grinding materials
[NASA-TM-77366] 09 p1291 N84-18430
Particle size distribution of typical ceramic raw materials by laser granulometry
[NASA-TM-77385] 11 p1636 N84-20696
Recycling of duroplastic moulding materials hardened by dispersion by means of powdering and compounding new materials
[BMFT-FB-T-83-302] 15 p2301 N84-24811
Organic materials for ceramic molding processes
[NASA-TM-77438] 19 p2997 N84-28991
Batch and continuous recrystallization of secondary explosives
[DE84-009735] 19 p3002 N84-29024
Fatigue behavior of long and short cracks in wrought and powder aluminum alloys
[AD-A142609] 20 p3153 N84-30024
Structure and properties of amorphous powder material after explosive loading 24 p3870 N84-34526
Contributions towards analytical chromatography
[BLL-M-29666-(5828.4)] 24 p3880 N84-34579
Hot isostatic pressing of ceramic powder compacts
[AD-A144123] 24 p3888 N84-34621
Tape casting of Honeywell PZT type 3 powder
[AD-A144215] 24 p3888 N84-34623
Sinterable ceramic powders from laser heated gas phase reactions and rapidly solidified ceramic materials
[AD-A144439] 24 p3889 N84-34627

POWDER METALLURGY
The effects of powder metallurgical processing and intermediate thermal mechanical treatment on the fatigue properties of high strength aluminum alloys
[AD-A130790] 01 p0044 N84-10282
Transmission electron microscopy characterization of microstructural features of Al-Li-Cu alloys
[NASA-TM-84384] 02 p0193 N84-11255
Stress-corrosion behavior of aluminum-lithium alloys in aqueous environments
[NASA-TM-85853] 02 p0193 N84-11256
A surface analytical examination of Stringer particles in Al-Li-Cu alloys
[NASA-TM-85854] 02 p0193 N84-11257
Microstructure and properties of P/M tool steels
[AD-A130980] 02 p0194 N84-11259
Deformation studies in workable superalloys
[AD-A131606] 02 p0194 N84-11260
High strength powder metal (PM) steels by liquid phase sintering
[BMFT-FB-T-83-139] 02 p0196 N84-11287
Mechanical property evaluation of P/M (Powder-Metallurgy) aluminum 7090-T7E71 plate
[AD-A132058] 03 p0352 N84-12290
Cold sintering: A new powder consolidation process
[AD-A131687] 03 p0353 N84-12292
Powder metallurgy
[BLL-M-35271-(5828.4)] 06 p0803 N84-15231
Rapid solidification processing and powder metallurgy of Al alloys
[AD-A133873] 06 p0806 N84-15250
Development of contact materials made by internal oxidation
[BMFT-FB-T-83-196] 07 p0977 N84-16332
Production of titanium powders by the electrolysis of chloride-fluoride melts with a soluble anode
[BLL-OA-TRANS-3136-(6196.3)] 08 p1128 N84-17338
Iron and steel (selected articles)
[AD-A135576] 09 p1262 N84-18376
Synthesis and properties of elevated temperature P/M aluminum alloys
[AD-A135956] 09 p1283 N84-18379
A fundamental study of P/M processed elevated temperature aluminum alloys
[AD-A136154] 09 p1284 N84-18387
Development of contact materials based on Ag made by powder metallurgy
[BMFT-FB-T-83-248] 10 p1463 N84-19557
Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] 11 p1632 N84-20670
USSR report: Materials science and metallurgy
[JPRS-UMS-84-001] 12 p1783 N84-21633
Obtaining metallic powders by ultrasonic atomization of melts 12 p1785 N84-21643
Experimental study of powder production process using centrifugal atomization 12 p1785 N84-21644
Production of porous sheets from metallic powders
[BLL-M-35465-(5828.4)] 12 p1796 N84-21713
Sintering phenomena of non-oxide silicon compounds
[DE84-006599] 12 p1802 N84-21747
Review of the effects of microstructure on fatigue in aluminum alloys
[NASA-TM-83626] 13 p1960 N84-22735
The fatigue of powder metallurgy alloys
[AD-A138714] 13 p1960 N84-22736
Shock consolidation of powders: Theory and experiment
[DE84-007273] 13 p1961 N84-22741
A study of fatigue crack propagation in powder metallurgy hot isostatically pressed nickel-base alloy
[AD-A139290] 14 p2127 N84-23754
Application of rapidly solidified superalloys
[AD-A139350] 14 p2127 N84-23755
Engineering property comparisons of PM alloy X7091-T7E69 and IM alloy forgings
[NLR-TR-82054-U] 15 p2296 N84-24782
Advanced powder metallurgy aluminum alloys via rapid solidification technology
[NASA-CR-172343] 16 p2464 N84-25794
Reduced grain boundary mobility and the sintering of molybdenum
[AD-A140265] 16 p2469 N84-25823
Synthesis of refractory compounds with gasless combustion reactions
[AD-A140296] 16 p2472 N84-25842
P/M superalloys: A troubled adolescent?
[NASA-TM-83623] 17 p2622 N84-26785
ONR (Office of Naval Research) Far East Scientific Bulletin. Volume 9, Number 1, January to March 1984
[AD-A140826] 17 p2770 N84-27589
Mechanical properties of a shock consolidated steel powder
[DE84-003573] 20 p3158 N84-30058
Dynamic powder compaction
[DE84-006133] 20 p3170 N84-30132
Powder metallurgy of light metal alloys for demanding applications
[AD-A142066] 21 p3366 N84-31352
Investigation of shock activated sintering and shock wave consolidation of selected powder materials
[DE84-013074] 21 p3371 N84-31391
Sintered hard metal alloys and process for their manufacture
[CSIR-TRANS-1748] 22 p3552 N84-32483
Producing thermomagnetic alloy by powder metallurgy
[BLL-M-35668-(5828.4)] 22 p3553 N84-32500
Processing and consolidation of rapidly solidified alloys: A technology assessment
[DE84-014673] 22 p3557 N84-32523
Processing science to increase the reliability of ceramics
[AD-A143207] 22 p3559 N84-32539
USSR report: Materials science and metallurgy
[JPRS-UMS-84-006] 23 p3705 N84-33489
Development of ferrous metallurgy described 23 p3707 N84-33499
Mechanical properties of components made from powders received by processing low-grade porous titanium 23 p3707 N84-33500
Production of extra-pure iron for cermet bearings 23 p3707 N84-33501
Powder metallurgy R and D organizations featured 23 p3707 N84-33502
Powder metallurgy for the economical manufacture of aeronautical components in titanium alloy
[AD-B076255] 23 p3717 N84-33562
Method for refining microstructures of prealloyed powder metallurgy titanium articles
[AD-D011162] 23 p3718 N84-33570
Method for refining microstructures of blended elemental powder metallurgy titanium articles
[AD-D011177] 23 p3718 N84-33571

Engineering property comparisons of Powder Metallurgy (PM) alloy X7901-T7E69 and Ingot Metallurgy (IM) alloy forgings
[NLR-MEMO-SM-83-050-U] 23 p3720 N84-33583
Fabrication of metallic glass structures
[DE84-014409] 23 p3725 N84-33606
Hot isostatic pressing of ceramic powder compacts
[AD-A144123] 24 p3888 N84-34621

POWDERED ALUMINUM
Mechanical property evaluation of P/M (Powder-Metallurgy) aluminum 7090-T7E71 plate
[AD-A132058] 03 p0352 N84-12290
The role of hydrogen in the stress corrosion cracking of 7XXX-series aluminum alloys
23 p3717 N84-33561

POWDERED METALS
U METAL POWDER

POWER
Super integrated power unit for fighter aircraft
03 p0335 N84-12183
Variable structure control of interconnected systems with applications to power systems
[DE84-006587] 12 p1892 N84-22321
Development of high frequency low weight power magnetics for aerospace power systems
[NASA-TM-83656] 13 p1986 N84-22892

POWER AMPLIFIERS
A 500-watt solid-state RF power amplifier AM-7209( )/VRC
[AD-A129327] 01 p0071 N84-10463
Design and operation of a collective millimeter-wave free-electron laser
[AD-A131628] 01 p0087 N84-10588
30/20 GHz spacecraft GaAs FET solid state transmitter for trunking and customer-premise-service application
[NASA-CR-168276] 07 p0997 N84-16483
High pulse power RF sources for linear colliders
[DE84-003517] 07 p0999 N84-16477
Power-amplification of a heavy-ion beam in an induction linac
[DE84-002911] 08 p1231 N84-18042
High power high voltage linear amplifier apparatus
[AD-D011028] 19 p3018 N84-29132
Equipment for monitoring and control of television transmitters 21 p3378 N84-31435

POWER CONDITIONING
Integrated Power/Attitude Control System (IPACS)
03 p0344 N84-12229
IPACS attitude control technology considerations
03 p0345 N84-12238
IPACS electronics: Comments on the original design and current efforts at Langley Research Center
03 p0345 N84-12240
Advanced Control and Power System (ACAPS) technology program 03 p0345 N84-12243
Power system considerations and test activities
03 p0345 N84-12244
IPACS guidance navigation and control system considerations and test activities
03 p0346 N84-12245
Advanced photovoltaic system simulator to demonstrate the performance of advanced photovoltaic cells and devices
[DE83-009405] 08 p1180 N84-17688
Advanced teleprocessing systems
[AD-A137944] 11 p1644 N84-20747
Photovoltaic power conditioning subsystem: State of the art and development opportunities
[NASA-CR-173458] 12 p1842 N84-22009
Development of a new charger system
[BMFT-FB-T-83-305] 15 p2328 N84-24977
Requirements for a transformerless power conditioning system
[NASA-CR-173742] 18 p2833 N84-27981
Diagnostics development for E-beam excited air channels: Optical studies of the PHERMEX electron beam
[AD-A142095] 19 p3101 N84-29701
DC wiring system grounding and ground fault protection issues for central station photovoltaic power plants
22 p3584 N84-32695
Investigation of Doubly-Fed Machine in Variable Speed Applications
[DE84-012943] 22 p3618 N84-32928
I/O channel interface
[NBS-FIPS-PUB-60-2] 22 p3637 N84-33057

POWER CONVERTERS
Steady state performance of single-phase reaction motor 21 p3476 N84-32035

POWER DENSITY (ELECTROMAGNETIC)
U RADIANT FLUX DENSITY

POWER EFFICIENCY
Family of airfoil shapes for rotating blades — for increased power efficiency and blade stability
[NASA-CASE-LAR-12843-1] 02 p0173 N84-11136
Optimization of engine power offtake by secondary power system design 03 p0335 N84-12177
APU operational efficiency 03 p0335 N84-12181
Trending of cruise drag — aircraft performances
[NLR-TR-82078-U] 09 p1256 N84-18200
Investigation of optimum magnet geometries for gain-expanded free-electron lasers
[AD-A136494] 09 p1321 N84-18634
Development of high frequency low weight power magnetics for aerospace power systems
[NASA-TM-83656] 13 p1986 N84-22892
Field demonstration of three-phase wankel motors
[AD-A140085] 15 p2330 N84-24989
Thermomagnetic generator
[DE84-007685] 15 p2365 N84-25189
Effect of radial inflow on vortex intensification and its application to wind vortex generators
17 p2724 N84-27335
Measuring and data evaluation systems at the wind test site Pellworm
[GKSS-84-E-12] 23 p3791 N84-34044
Efficiency and operating experience of Block Heating Power Stations (BHPS) 23 p3792 N84-34049

POWER FACTOR CONTROLLERS
All-purpose bidirectional four-quadrant controller
01 p0011 N84-10070
Control system for an induction motor with energy recovery
[NASA-CASE-MFS-25477-1] 05 p0673 N84-14424
Motor power control circuit for ac induction motors
[NASA-CASE-MFS-25323-1] 13 p1985 N84-22886
Advances in solid state switchgear technology for large space power systems
[NASA-TM-83652] 13 p1986 N84-22891
Investigation of power factor controller applications
[AD-A144466] 24 p3898 N84-34686

POWER GAIN
Flowing effects in gas lasers
[AD-A141409] 21 p3409 N84-31620

POWER GENERATORS
U ELECTRIC GENERATORS

POWER LINES
Transient overvoltages on cable sheaths
[BLL-OA-TRANS-2620-(6196.3)]
01 p0069 N84-10448
Electrochemical-treeing (ECT) structures in high-voltage cable insulation
[BMFT-FB-T-83-087] 02 p0215 N84-11413
Parametric analysis of hollow conductor parallel and coaxial transmission lines for high frequency space power distribution
[NASA-TM-83601] 11 p1625 N84-20639
Pretreatment of Kapton-coated cable for epoxy adhesion
[DE84-006265] 11 p1661 N84-20837
Standard for fire protection of DOE electronic computer/data processing systems
[DE84-007194] 14 p2135 N84-23793
Oblique vortex induced vibration of cylinders
[BU-295] 15 p2350 N84-25104
Representative electromagnetic field intensities near the Clam Lake, Wisconsin and Republic, Michigan ELF (Extremely Low Frequency) facilities
[AD-A140798] 17 p2654 N84-26972
Rotatable electric cable connecting system
[NASA-CASE-GSC-12899-1] 19 p3011 N84-29065
Energy conservative cable system demonstration project
[DE84-006982] 20 p3179 N84-30195
Coupling of electromagnetic pulses created by a nuclear explosion on the ground with overhead power cables
[SNIAS-841-422-107] 21 p3368 N84-31505
Calculation of currents induced in a network of overhead power lines by an electromagnetic impulse
[SNIAS-841-422-109] 21 p3368 N84-31507
Current assessment of the potential of dielectric gas mixtures for industrial applications
[DE84-011658] 22 p3588 N84-32724

POWER LOSS
A review and summary of cell and module mismatch losses from theoretical and experimental studies
22 p3583 N84-32689

POWER MODULES (STS)
Passive Sun seeker/tracker and a thermally activated power module 15 p2348 N84-25089
Study report on a modular photovoltaic power supply system for space application
[BMFT-FB-W-84-010] 19 p2983 N84-28904
Hipot and continuity qualification est experience
22 p3583 N84-32692

POWER PLANTS
Gas-turbine demonstration of pyrolysis-derived fuels
[DE83-013610] 01 p0053 N84-10342
Proceedings of the US Department of Energy Photovoltaics Program Annual Review
[DE83-010325] 05 p0699 N84-14589
Influence of Ar + CO2 shielding on the composition of a Cr-Mo-V weld
[BLL-CE-TRANS-8000-(9022.09)]
06 p0851 N84-15550
Preliminary performance estimates and value analyses for binary geothermal power plants using ammonia-water mixtures as working fluids
[DE84-006124] 11 p1674 N84-20921

POWER PROCESSING SYSTEMS
U POWER CONDITIONING

POWER REACTORS
Development in reliability models and methods
[DE83-014683] 03 p0385 N84-12511
Pit initiation resistance of ferritic stainless steels in chloride environments from 800 to 2600C
[DE84-000355] 06 p0807 N84-15258
Modeling of concrete response at high temperature
[DE84-009587] 22 p3564 N84-32570

POWER SERIES
NT TAYLOR SERIES
The generalized Euler-Mascheroni constants
[NASA-TP-2264] 06 p0906 N84-15880
Power-series solutions of the gasdynamic equations for Mach reflection of a planar shock by a wedge
[AD-A135953] 09 p1315 N84-18594
Theory of asymmetric double layers
[AD-A136980] 10 p1573 N84-20311
On 4th-order homogeneous functionals in the class of bounded univalent functions 15 p2396 N84-25374
A note about Lie series and some applications
19 p3121 N84-29636
Large-signal amplifier based on ferrimagnetic echo
21 p3378 N84-31440
An infinite series of symmetric designs
[MC-ZW-202/83] 21 p3476 N84-32031
Analytical solution for computing first and second order ordinary differential equations using a method of series development
[INPE-2980-PRE/442] 22 p3645 N84-33110

POWER SPECTRA
Detection of solar gravity mode oscillations
[NASA-CR-174469] 01 p0165 N84-11086
A broadband high power millimeter to centimeter spectrometer
[AD-A131629] 02 p0294 N84-11927
An analysis of pC-3 micropulsion in the geomagnetic field
[AD-A132443] 04 p0563 N84-13709
Multisignal Minimum-Cross-Entropy spectrum analysis weighted priors
[AD-A132358] 04 p0589 N84-13896
Saturation processes in doppler-broadened HF vibrational transitions
[AD-A134262] 07 p1009 N84-16548
Radar investigation of asteroids
[NASA-CR-175350] 07 p1090 N84-17090
Power spectral signatures of interplanetary corotating and transient flows
[NASA-TM-86051] 08 p1244 N84-18131
Unified theory of the power spectrum of long wavelength ionospheric electron density irregularities
[AD-A137356] 10 p1537 N84-20068
Nonlinear theory of the E x B instability with an inhomogeneous electric field
[AD-A137132] 10 p1569 N84-20277
On the estimation of spectral parameters using burst waveforms
[AD-A137932] 11 p1644 N84-20746
Geometric interpretations of the Discrete Fourier Transform (DFT)
[NASA-TP-2332] 14 p2189 N84-24114
Spectral power density extrema for microwave emission from a relativistic reflex triode
[AD-A139771] 15 p2329 N84-24984
MEM spectrum analysis of snow densities
15 p2353 N84-25117
The MST radar technique: A tool for investigations of turbulence spectra 17 p2688 N84-27117
Techniques for studying gravity waves and turbulence: Vertical wind speed power spectra from the troposphere and stratosphere obtained under light wind conditions
17 p2688 N84-27120
Capabilities and limitations of existing MST radars: Poker Flat — Alaska 17 p2690 N84-27133
Parmeterization of spectra 17 p2696 N84-27170
Parameterization of spectrum
17 p2696 N84-27172
Spectral moment estimation in MST radars
17 p2696 N84-27173
Detection of solar gravity mode oscillations
[NASA-CR-173642] 17 p2781 N84-27655
Spectral averaging and low-frequency sampling modifications for the IQS 401 FFT (Fast Fourier Transform) spectrum analyzer
[AD-A141181] 18 p2834 N84-27990

Artificial intelligence applied to spectrum estimation
[AD-A142202] 19 p3007 N84-29082
Evolution of structure in the PLACES barium clouds
[DE84-010996] 20 p3242 N84-30583
Random signal recognition based on spectral moments 22 p3568 N84-32597
Period-doubling 2-torus state in a convecting He-3-superfluid He-4 solution
[DE84-009985] 22 p3666 N84-33243
Studies of the microscale density fluctuations in the solar wind using interplanetary scintillations 22 p3679 N84-33324
Long time behaviour of the interplanetary magnetic field-sectorial structure
[INPE-3222-PRE/573] 24 p3990 N84-35245
Cosmic Rays, no. 23. Results of researches on the international geophysics projects 24 p3993 N84-35267
Spectral characteristics of cosmic ray fluctuations 24 p3993 N84-35269
Joint analysis of the data obtained by detecting the general, muon, and neutron components of cosmic ray intensity on May 7, 1978 24 p3993 N84-35270
Calculations of the amplitude spectrum of the 27-day variations of galactic cosmic rays 24 p3993 N84-35271

POWER SUPPLIES
Low-input-harmonics power supplies
[AD-A130337] 01 p0071 N84-10462
Review of repetitive-pulse-power component technology
[DE83-011784] 01 p0073 N84-10475
High-average-power rep rate systems
[DE83-013769] 03 p0366 N84-12385
Problem of magnet ramping
[DE83-014054] 03 p0368 N84-12399
Power effects on the longitudinal characteristics on single-engine propeller-driven aircraft
[ARL-AERO-REPT-157] 04 p0483 N84-13174
Thermohydraulic applications of liquid metals in the non-nuclear field 06 p0843 N84-15501
Novette pulse-power-system description
[DE83-018185] 06 p0918 N84-15968
Current collection from the space plasma through defects in high voltage solar array insulation 06 p0919 N84-15970
Pulse width modulated DC link converter development
[AD-A134486] 07 p0997 N84-16467
Advanced photovoltaic system simulator to demonstrate the performance of advanced photovoltaic cells and devices
[DE83-009405] 08 p1180 N84-17688
Evaluation of advanced technologies for power transformers
[DE84-004046] 10 p1487 N84-19719
Evaluation of nickel-hydrogen battery for space application
[NASA-TM-77355] 10 p1528 N84-20012
Development of high frequency low weight power magnetics for aerospace power systems
[NASA-TM-83656] 13 p1986 N84-22892
Method and apparatus for precision control of radiometer
[NASA-CASE-NPO-15398-1] 13 p1992 N84-22931
Computer analysis of effects of altering jet fuel properties on refinery costs and yields
[NASA-CR-174642] 18 p2820 N84-27908

POWER SUPPLY CIRCUITS
Development of high frequency low weight power magnetics for aerospace power systems
[NASA-TM-83656] 13 p1986 N84-22892
Optical power source control system
[AD-D011124] 22 p3656 N84-33175

POWER TRANSMISSION
Superconducting power transmission system development. Cable insulation development
[DE84-007805] 14 p2142 N84-23847
Design of power-transmitting shifts
[NASA-RP-1123] 17 p2675 N84-27041

POWERED LIFT AIRCRAFT
Flight-test of the glide-slope track and flare-control laws for an automatic landing system for a powered-lift STOL airplane
[NASA-TP-2128] 04 p0487 N84-13198
V/STOL concepts in the United States: Past, present, and future
[NASA-TM-85938] 13 p1926 N84-22532
V/STOL maneuverability and control
[NASA-TM-85939] 13 p1935 N84-22584
V/STOL concepts in the United States: Past, present, and future 16 p2436 N84-25626
V/STOL maneuverability and control 16 p2437 N84-25632
Fuel conservative guidance concept for shipboard landing of powered-life aircraft
[NASA-TM-85971] 21 p3344 N84-31215

PPI (POSITION INDICATORS)
U PLAN POSITION INDICATORS

PPM (MODULATION)
U PULSE POSITION MODULATION

PRACTICES
U PROCEDURES

PRAIRIES
U GRASSLANDS

PRANDTL NUMBER
Solution of a minimum problem in aircraft wing theory
[AD-A131070] 02 p0174 N84-11147
Turbulent Prandtl number distribution within the constant stress/heat-flux region of a near-wall flow
[SME-8401] 16 p2486 N84-25945

PRANDTL-MEYER EXPANSION
NT THERMAL BUCKLING
An adaptive finite element method for high speed compressible flow
[NASA-CR-173443] 17 p2601 N84-26669

PRASEODYMIUM
An experimental study of praseodymium intermetallic compounds at low temperatures
[DE83-704748] 24 p3884 N84-34612

PRE-MAIN SEQUENCE STARS
The wind and chromosphere of the Herbig Ae star AB Aur as seen by IUE 24 p3975 N84-35173

PREAMPLIFIERS
Internal noise of low-frequency preamplifiers
[AD-A131532] 02 p0213 N84-11398
Low-noise gallium-arsenide field-effect transistor preamplifiers for stochastic beam-cooling systems
[DE83-017535] 04 p0528 N84-13475
Low noise amplifier with a JFET inlet stage
[IFSI-83-8] 05 p0677 N84-14452
Cryogenically cooled broad-band GaAs field-effect transistor preamplifier
[DE84-004166] 10 p1487 N84-19722
MLS/Airplane system design. RF component design
[NASA-CR-172339] 15 p2259 N84-24567

PRECAUTIONS
U ACCIDENT PREVENTION

PRECESSION
NT LARMOR PRECESSION
NT QUENCHING (ATOMIC PHYSICS)
Effects of adopting new precession, nutation and equinox corrections on the terrestrial reference frame 07 p1029 N84-16670
The influence of gyroscopic forces on the dynamic behavior and flutter of rotating blades
[NASA-CR-175444] 11 p1608 N84-20524
Ballooning precessional instabilities in a single cell hot electron plasma
[DE84-007017] 14 p2230 N84-24373
Accretion disks, precessing jets and the asymmetric emission lines of QSOs
[NASA-CR-173632] 17 p2774 N84-27613

PRECIOUS METALS
U NOBLE METALS

PRECIPITATION (CHEMISTRY)
Examination of the electrochemical behaviour of titanium in the LiC1-KC1 melt
[BLL-OA-TRANS-3010-(6196.3)] 01 p0042 N84-10273
On the electrochemical precipation of titanium coatings
[BLL-OA-TRANS-3028-(6196.3)] 01 p0043 N84-10274
The cathodic polarization of nickel during precipitation from pure solutions without additions
[BLL-OA-TRANS-3004-(6196.3)] 01 p0043 N84-10275
Polymerisation of acrolein and its derivatives. 2: Polymerisation of acrolein and alpha-alkyl substituted acrolein in the presence of metallic sodium
[BLL-M-28708-(5828.4)] 01 p0048 N84-10308
A method for the preparation of small particles of pure compounds or of compounds containing small amounts of foreign elements
[FOA-C-20502-A1] 02 p0192 N84-11246
Measurement of precipitate nucleation times in molten metals by pulsed surface melting
[DE84-002383] 05 p0656 N84-14311
Precipitation of metals from solutions by baser metals
[CSIR-1712] 06 p0804 N84-15242
Precipitation mechanisms in aluminum-lithium alloys
[AD-A134836] 08 p1133 N84-17367
Precipitation in rapidly solidified Al-Mn alloys
[AD-A136128] 09 p1284 N84-18385
Thermal creep and stress-affected precipitation of 20% cold-worked 316 stainless steel
[DE84-004933] 10 p1461 N84-19539
Correlations between plasma variables and the deposition process of Si films from chlorosilanes in low pressure RF plasma of argon and hydrogen
[NASA-TM-83603] 11 p1737 N84-21330
Theory and experiments on chemical instabilities
[AD-A140947] 18 p2810 N84-27841
Chemical attenuation rates, coefficients, and constants in leachate migration. Volume 1: A critical review
[DE84-009432] 20 p3236 N84-30557
Urban and local source effects on precipitation chemistry
[DE84-011848] 21 p3436 N84-31803
Agglomeration and pecipitation by sonic-inertial means: Abstract of the state of the art
[REPT-0563/84] 21 p3491 N84-32126
Nonequilibrium segregation and phase instability in alloy films during elevated-temperature irradiation in a high-voltage electron microscope
[DE84-013423] 21 p3505 N84-32214
Epitaxial crystallization in the Te-HgTe-CdTe system
[CSIR-TRANS-1745] 22 p3661 N84-33206
Bonding materials by gas-phase precipitation 23 p3709 N84-33512
Preliminary chemical analysis of rain water in Cubatao: Ambient effects
[INPE-2957-PRE/396] 23 p3792 N84-34053

PRECIPITATION (METEOROLOGY)
NT ACID RAIN
NT DEW
NT HAIL
NT RAIN
NT SNOW
NT SNOW COVER
Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F. Cape Lisburne Alaska AFS
[AD-A131194] 01 p0109 N84-10705
National Weather Service public forecast verification summary, April 1978 to March 1982
[PB83-232173] 01 p0110 N84-10716
Reports from the German Meteorological Service. Number 163: Comparative measurements with wind shielded and unshielded rain gages
[ISBN-3-88148-203-2] 02 p0253 N84-11654
Periodicities in the rainfall patterns of different regions in India
[INPE-2899-PRE/418] 02 p0253 N84-11657
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F. Brize Norton RAF, United Kingdom
[AD-A131621] 02 p0254 N84-11663
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F. Indian Mountain AFS, Alaska
[AD-A131195] 02 p0255 N84-11668
A preliminary analysis of precipitation in southern Nevada
[DE83-016648] 02 p0256 N84-11678
Climate of Phoenix, Arizona (revised)
[PB83-246801] 03 p0412 N84-12609
Development of design hyetographs for southern Nevada
[DE84-001227] 04 p0554 N84-13649
Precipitation development in midlatitude cyclones: A study of cloud structures and processes 04 p0566 N84-13726
A numerical study of cloud and precipitation processes in mesoscale rainbands 04 p0566 N84-13729
Rain estimation from satellites: An examination of the Griffith-Woodley technique
[NASA-TM-84969] 04 p0566 N84-13735
Radioactivity levels in humid and dry fallout gathered in the last 20 years in some points of the Padana Valley (Italy)
[CISE-2069] 05 p0701 N84-14598
Assessment of acidity of lakes and precipitation in the Sierra Nevada
[PB83-255521] 05 p0701 N84-14603
Utilization of satellite data in mesoscale models of severe weather
[NASA-CR-175122] 06 p0881 N84-15730
Development of theoretical models and analyses of the micro-physics of cloud and precipitation systems
[AD-A133557] 06 p0882 N84-15735
Eielson AFB, Alaska. Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F
[AD-A134198] 07 p1036 N84-16723
McGuire AFB, New Jersey. Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F
[AD-A134199] 07 p1036 N84-16724
Duluth, Duluth IAP, Minnesota. Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F
[AD-A134200] 07 p1037 N84-16725
King Salmon, Alaska. Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F
[AD-A134201] 07 p1037 N84-16726

Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F. Kitzingen, West Germany
[AD-A134202] 07 p1037 N84-16727
Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F. Adak NAS, Alaska
[AD-A134203] 07 p1037 N84-16728
Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F. Loring AFB, Maine
[AD-A134204] 07 p1037 N84-16729
Atmospheric deposition to forests
[DE84-003384] 06 p1182 N84-17700
Cloud physics investigations by the University of Wyoming in HIPLEX 1977-1982
[PB84-106756] 08 p1192 N84-17770
Probable maximum precipitation and snowmelt criteria for southeast Alaska
[PB84-104371] 08 p1193 N84-17777
Resource and potential reclamation evaluation: Northeast Montana investigations
[PB84-112390] 09 p1337 N84-18734
Resource and potential reclamation evaluation: Northeast Montana investigations
[PB84-112408] 09 p1338 N84-18735
Evaluation of point precipitation probability forecasts using radar estimates of rainfall areal coverage
[PB84-121060] 09 p1350 N84-18821
A study of the weather record from Fanoe (1872-1980) including an analysis of climate variation
[AD-A136694] 10 p1540 N84-20090
Analysis and classification of mesoscale cloud and precipitation systems 10 p1542 N84-20107
Measures to improve anti-hail service
11 p1669 N84-20892
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Dyess AFB, Texas
[AD-A137575] 11 p1685 N84-20991
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Tonopah, Nevada
[AD-A137576] 11 p1685 N84-20992
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Part A-F: Phillips, Aberdeen, Maryland
[AD-A137577] 11 p1685 N84-20993
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Gela, Italy
[AD-A137578] 11 p1686 N84-20994
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Dhahran, Saudi Arabia
[AD-A137580] 11 p1686 N84-20995
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Travis Air Force Base, California
[AD-A137581] 11 p1686 N84-20996
Limited Surface Observations Climatic Survey (LISOCS), Baumholder, West Germany
[AD-A137582] 11 p1686 N84-20997
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Andersen AFB, Guam
[AD-A137583] 11 p1686 N84-20998
The use of dual-polarization radar data to predict attenuation from precipitation on Earth-space paths
[ESA-CR(P)-1845] 12 p1809 N84-21798
Remote sensing of Earth terrain
12 p1834 N84-21951
The ocean and the dynamics of the tropical atmosphere: Its possible predictability
[INPE-2998-PRE/450] 12 p1847 N84-22041
Evaluation of glass model precipitation forecasts for North America during SOP-1 12 p1850 N84-22051
Role of soil moisture in maintaining droughts
12 p1859 N84-22110
The water balance and climate
[INPE-2997-PRE/449] 12 p1859 N84-22114
The Amazon and climate
[NASA-CR-173408] 12 p1860 N84-22115
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Zaragoza Air Base, Spain
[AD-A138281] 12 p1860 N84-22121
Influence of extratropical heteorological phenomenon on the northeast Brazilian climate: A study using finite elements
[INPE-2912-PRE/425] 13 p2016 N84-23072
A preliminary study of the feasibility of detecting long-term trends in atmospheric humidity
[DE84-006417] 14 p2160 N84-24055
Climatological frequency distributions for Juneau, Alaska
[PB84-154814] 14 p2160 N84-24059
Single Doppler velocity signatures: An Atlas of patterns in clean air/widespread precipitation and convective storms
[PB84-155779] 14 p2181 N84-24063
Climate fluctuations in Illinois: 1901-1980
[PB84-159896] 14 p2181 N84-24069
MDR-processing manually digitized observations
[PB84-161462] 14 p2181 N84-24070
Climatic atlas of Texas
[PB84-162908] 14 p2182 N84-24074
Facilities for meteorological research at NASA Goddard/Wallops Flight Facility
[NASA-TM-84422] 15 p2371 N84-25223
On the 1983 drought in Northeast Brazil
[INPE-3110-PRE/509] 16 p2528 N84-26229
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Plattsburgh AFB, New York
[AD-A140244] 16 p2530 N84-26244
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: McGhee-Tyson Airport, Tennessee
[AD-A140245] 16 p2530 N84-26245
Cloud physics studies in SCPP (Sierra Cooperative Pilot Project) during 1982-1983
[PB84-176452] 17 p2735 N84-27384
Seminar on Radar Meteorology — conferences
[WMO-626] 18 p2886 N84-28314
The use of radar in modern meteorology
18 p2886 N84-28315
Technical and meteorological qualifications of areal precipitation measurement by radar
18 p2886 N84-28316
Digital radar information in the Swiss Meteorological Institute 18 p2886 N84-28319
Precipitation and precipitation efficiencies derived from single Doppler radar 18 p2887 N84-28321
Dynamics of radar cloud characteristics
18 p2887 N84-28325
Presentation of 5 films to illustrate the theory of precipitation measurements by radar
18 p2889 N84-28336
A study of precipitation occurrence using visual and infrared satellite data
[AD-A141012] 18 p2889 N84-28338
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-E: Clark AFB, Philippines
[AD-A141228] 18 p2890 N84-28342
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Malmstrom AFB, Montana
[AD-A141229] 18 p2890 N84-28343
Lagrangian time scales connected with clouds and precipitation
[CM-65] 18 p2891 N84-28350
A laboratory study of aircraft precipitation static charging
[AD-A142561] 21 p3443 N84-31848
Geomorphic approach to hydrograph synthesis, with potential for application to ungaged watersheds
[PB84-190115] 22 p3615 N84-32904
Seasonal precipitation forecasting with a 6 to 7 month lead time in the Pacific Northwest using an information theoretic model
[PB84-207018] 22 p3626 N84-32979
Southern oscillation-El Nino events: Characteristics, evolution, and precipitation anomalies
[INPE-2976-PRE/438] 22 p3627 N84-32983
Precipitation monitoring over land from satellites by microwave radiometry 23 p3774 N84-33924
An evaluation of the SPADS automated cloud analysis program
[AD-A143987] 23 p3802 N84-34106
Large scale tropical heat sources and global atmospheric energy propagation associated with droughts in Northeast Brazil
[INPE-3227-PRE/578] 24 p3918 N84-34806
A synoptic study of the influence of extra-tropical latitude systems on the climatic variability in northeast Brazil
[INPE-3225-PRE/576] 24 p3922 N84-34824
A study of the influence of extra-tropical latitude systems on the climatic variability in Northeast Brazil
[INPE-3264-PRE/595] 24 p3922 N84-34825
NASA/MSFC FY-84 Atmospheric Processes Research Review
[NASA-CP-2329] 24 p3923 N84-34829
Cloud scale influences on mesoscale precipitation patterns 24 p3930 N84-34879
Satellite Precipitation and Cloud Experiment (SPACE)
24 p3931 N84-34887

PRECIPITATION HARDENING
Changes in acoustic emission peaks in precipitation strenghtened alloys with heat tretment
[DE83-013611] 01 p0045 N84-10289
Effect of phosphorus on the swelling and precipitation behavior of austenitic stainless steels during irradiation
[DE84-000412] 04 p0499 N84-13275
Carbide precipitation in nickel-base model alloys and its influence on ductility and fracture behavior at room temperature
[JUEL-1845] 05 p0657 N84-14319
Use of the disk bend test to assess irradiation performance of structural alloys
[DE84-001484] 06 p0806 N84-15255
Effects of alloy composition and processing on the microstructure of D-9 type stainless steel
[DE84-003022] 07 p0975 N84-16321
Recycling of duroplastic moulding materials hardened by dispersion by means of powdering and compounding new materials
[BMFT-FB-T-83-302] 15 p2301 N84-24811
Characterization of macrosegregation in ESR IN-718
24 p3882 N84-34598

PRECIPITATION PARTICLE MEASUREMENT
Presentation of 5 films to illustrate the theory of precipitation measurements by radar
18 p2889 N84-28336

PRECIPITATORS
NT ELECTROSTATIC PRECIPITATORS

PRECISION
Background information on the He(3) nuclear gyroscope
[AD-A130755] 01 p0084 N84-10545
A contribution to the calculation of measurement uncertainty and optimization of measuring strategies in coordinate measurement — production measurement technique
[PTB-ME-39] 02 p0206 N84-11345
Precision support of annular optics
[DE83-017473] 04 p0605 N84-13993
Forecasting satellite motion 12 p1775 N84-21583
Process for producing parts with deep pocketed precision cavities using P/M shape technology
[DE84-006566] 12 p1799 N84-21733
Toward a theory of library and information science
13 p2067 N84-23405
Infrared ellipsometer method for determination of parameters of thin epitaxial structures with buried layer: Specimens with dull inactive surface
21 p3379 N84-31446
A comparison of impedance measurement techniques in air
[AD-A143638] 23 p3821 N84-34232

PRECONDITIONING
Banded preconditioning for the solution of symmetric positive definite linear systems
[AD-A140097] 15 p2399 N84-25394
Recent developments of spectral and pseudospectral methods in fluid dynamics 16 p2492 N84-25985

PREDICTION ANALYSIS TECHNIQUES
Computation of influence of defects on static and fatigue strength of composites 01 p0034 N84-10217
Weighing evidence: The design and comparison of probability
[AD-A131475] 01 p0137 N84-10896
Afternoon effect studies, part 1
[AD-A130926] 01 p0140 N84-10918
Design analysis of an aluminum-air battery for vehicle operations: Transportation systems research
[DE83-014458] 01 p0163 N84-11071
Two dimensional linear prediction models. Part 1. Spectral factorization and realization
[AD-A130954] 02 p0280 N84-11833
Robust prediction and interpolation for Vector stationary processes
[AD-A130973] 02 p0284 N84-11859
An analysis of shock coalescence including three-dimensional effects with application to sonic boom prediction 02 p0288 N84-11890
Improved wave drag predictions using modified linear theory
[NASA-CR-174494] 03 p0320 N84-12096
Calculation of forced response to base excitation using experimentally derived modal participation factors
03 p0340 N84-12205
Erosive particle kinematics in the turbulent combustion boundary layer contacting a solid wall
[DE83-010594] 03 p0349 N84-12272
Prediction of dynamic effects due to vehicles crossing military bridges
[ISVR-TR-120] 03 p0391 N84-12548
Predicting lake ice decay
[AD-A132012] 03 p0401 N84-12618
Effects of microstructure and pore fluids on the acoustic properties of granular materials
[AD-A131983] 03 p0408 N84-12668
Coherence of appraisal and coping: Parachute jump effectiveness
[FOA-C-55058-H3] 03 p0416 N84-12724

Development of the basic methods needed to predict the aeroelastic behavior of helicopters
03 p0429 N84-12811
Transverse horizontal coherence and low-frequency array gain limits in the deep ocean
[AD-A131916] 03 p0430 N84-12821
Using inner-shell X-rays as an ion-beam diagnostic
[DE83-017784] 03 p0436 N84-12857
A general framework for learning curve reliability growth models
[AD-A132277] 04 p0546 N84-13596
Development of a technique for short-term prediction of hydrometeors using advection and physical forcing
[AD-A132259] 04 p0567 N84-13740
Quasi-Lagrangian diagnostics applied to an extratropical explosive cyclogenesis in the North Pacific
[AD-A132213] 04 p0568 N84-13741
Multisignal Minimum-Cross-Entropy spectrum analysis weighted priors
[AD-A132358] 04 p0589 N84-13896
Prediction of high-pressure phase transitions in solid N2 and the pressure dependence of the intramolecular vibrational frequencies
[DE83-015260] 04 p0615 N84-14057
A review of NASA combustor and turbine heat transfer research
[NASA-TM-83541] 05 p0631 N84-14146
Powerplant selection for conceptual helicopter design
[AD-A132982] 05 p0632 N84-14153
Degradation of fracture toughness in steels due to prior strain: A predictive model
[AD-A132600] 05 p0654 N84-14300
Calculation of performance of an RF-excited transverse flow CO2 laser
[DFVLR-FB-83-06] 05 p0687 N84-14514
Design of Smith control schemes for time-delay systems based on plant step data
[RR-231] 05 p0733 N84-14812
The effect of superposing ripple loading of maneuver load cycles
[AD-A132653] 06 p0786 N84-15148
A study to determine the accuracy of 2 computer programs in predicting hinge moments for all movable tail fins on missile bodies
[AD-A133399] 06 p0793 N84-15169
Battery lifetime prediction by pattern recognition application to lead-acid battery life-cycling test data
[AD-A133281] 06 p0829 N84-15397
Aerodynamics and steam wetness fraction of a multistage turbine. Comparison of prediction with experimental data 06 p0840 N84-15475
Applications of through-flow theory — steam turbines
06 p0840 N84-15477
Steam condenser thermal design theories
06 p0841 N84-15485
Turbulence modeling in liquid metal free convection — in reactor cooling systems 06 p0842 N84-15490
Cross section estimates for multi-TeV physics
06 p0911 N84-15914
A viscid inviscid interaction procedure for two dimensional cascades 07 p0955 N84-16191
Kinetic model on substrate-metabolic system and growth of microorganisms in activated sludge
07 p0982 N84-16362
SAR calibration: A technology review
07 p0988 N84-16399
Statistical trend analysis methodology for rare failures in changing technical systems
[JUEL-SPEZ-215] 07 p1067 N84-16928
A study of prediction methods for the high angle-of-attack aerodynamics of straight wings and fighter aircraft
[NASA-CR-3764] 08 p1097 N84-17131
Theoretical and experimental engine-inlet flow fields for fighter forebodies
[NASA-TP-2270] 08 p1097 N84-17132
Ceramic life prediction methodology - hot spin disc life program
[AD-A134783] 08 p1138 N84-17400
Studies and vorticity effects by the Euler equations with emphasis on supersonic flow fields
[AD-A135118] 08 p1157 N84-17535
The cumulative exceedance distribution for accelerations due to turbulence encountered by a CT/4A air trainer
[AD-A135640] 09 p1258 N84-18211
Buckling of a sublaminate in a quasi-isotropic composite laminate
[NASA-TM-85755] 09 p1275 N84-18325
Failure mode prediction anclysis using the Reliability Information Software (RIF) — spacecraft components
09 p1295 N84-18463
Computational methods for ball bearings in spacecraft
09 p1295 N84-18466
An objective waveform comparison technique
[AD-A136130] 09 p1315 N84-18596
New analytical methods for the prediction of fatigue crack growth under realistic loading — aircraft structures
[NLR-MP-82055-U] 09 p1335 N84-18713
Operational soil moisture predicted model
[AD-A136381] 09 p1337 N84-18729
Proceedings, Seminar on Probabilistic Methods in Geotechnical Engineering
[AD-A136497] 09 p1345 N84-18786
Comparing probability forecasters: Basic binary concepts and multivariate extensions
[AD-A135966] 09 p1377 N84-18998
A unified approach to ARMA (autoregressive-moving average) model identification and preliminary estimation
[AD-A136426] 09 p1381 N84-19020
Investigation of metallic impurities introduced into SiO/sub 2
[AD-A136006] 09 p1396 N84-19117
A study of the aerodynamic interference effects during aerial refueling
[AD-A136895] 10 p1420 N84-19290
An investigation of new possibilities to simplify the standard supersonic area rule
[AD-A137016] 10 p1422 N84-19297
Lecture notes on the principles and practice of airplane performance prediction. Part 1: Basic elements
[VTH-LR-385-VOL-1] 10 p1429 N84-19345
Lecture notes on the principles and practice of airplane performance prediction. Part 2: Point-performance in steady symmetric and unsymmetric flight
[VTH-LR-385-VOL-2] 10 p1429 N84-19346
Lecture notes on the principles and practice of airplane performance prediction. Part 3: Path performance in quasi steady and unsteady symmetric flight
[VTH-LR-385-VOL-3] 10 p1429 N84-19347
A thermal analyis approach applied in early stages of a program — satellite design 10 p1442 N84-19421
Uniaxial model for gas-loaded variable conductance heat pipe performance: The effects of vapor flow, friction, and inertia 10 p1443 N84-19424
Simplification of thermal design by the use of effective sink temperature method 10 p1448 N84-19461
Development of a simplified procedure for rocket engine thrust chamber life prediction with creep
[NASA-CR-168261] 10 p1450 N84-19472
Lifetime prediction for electronic components and circuits using the phase noise measuring method
[FB-111] 10 p1487 N84-19723
Effects of mean flow on the dynamic characteristics of fluid transmission lines
[AD-A136959] 10 p1492 N84-19759
Computation of discrete slanted hole film cooling flow using the Navier-Stokes equations
[AD-A137022] 10 p1493 N84-19763
Comparison of fatigue life prediction based on local strains and nominal stresses respectively --- metal fatigue
[LBF-FB-169(183)] 10 p1518 N84-19937
A mathematical model for oxygen toxicity in man
[AD-A137379] 10 p1547 N84-20139
Evaluation of ride quality prediction methods for helicopter interior noise and vibration environments
[NASA-TP-2261] 10 p1549 N84-20155
Nonlinear prediction of head movements for helmet-mounted displays
[AD-A136590] 10 p1555 N84-20192
Predictions of spray combustion interactions
11 p1609 N84-20532
Effect of liquid droplets on turbulence structure in a round gaseous jet 11 p1609 N84-20533
Mixing 4D-equipped and unequipped aircraft in the terminal area 11 p1616 N84-20577
Computation of linear communication antennas
[PB84-143502] 11 p1645 N84-20755
Unbalanced digital crosswalk in balanced, twisted pair, inside wiring cable 11 p1720 N84-21216
A computational method for predicting the effects of varying Reynolds number and dynamic pressure on flexible wings at transonic speeds 12 p1764 N84-21508
Mach number correlation for a two-dimensional helicopter rotor-blade analysis in the tip region
12 p1765 N84-21509
Development of procedures for component mode synthesis
[DFVLR-IB-232-82-C-09] 12 p1782 N84-21626
Experimental spherical near field antenna test facility, phase 3. Volume 2: Study of an offset reflector antenna with a sagging feed support
[S-179-01-VOL-2] 12 p1809 N84-21794
The use of dual-polarization radar data to predict attenuation from precipitation on Earth-space paths
[ESA-CR(P)-1845] 12 p1809 N84-21798
Development of a complete model of turbulence revisited
[AD-A138145] 12 p1816 N84-21836
Lubrication of engineering surfaces, phase 2
[DE84-006344] 12 p1822 N84-21878
The ocean and the dynamics of the tropical atmosphere: Its possible predictability
[INPE-2998-PRE/450] 12 p1847 N84-22041
The prediction of tropopause height from clusters of brightness temperatures and its application in the stratified regression temperature retrievals using microwave and infrared satellite measurements
12 p1852 N84-22064
Global energy futures and CO2-induced climate change, appendices
[PB84-145903] 12 p1862 N84-22132
Exploration of dose-response techniques with some applications to a simulation problem
[AD-A138029] 12 p1880 N84-22252
Equal weights, flat maxima, and trivial decisions
[AD-A138506] 12 p1895 N84-22342
A Generalized Escape System Simulation (GESS) computer program: GESS user's guide, version 2, volume 1
[AD-A138844] 13 p1928 N84-22545
The development of advanced specimen testing and analysis techniques applied to fracture mechanics lifing of gas turbine components
[PNR-90179] 13 p1933 N84-22575
The 14th JANNAF Plume Technology Meeting, volume 1
[AD-A139654] 13 p1941 N84-22819
Application of the CONTAM 3 computer model to the prediction of heating, forces, and contamination on a communications satellite 13 p1941 N84-22821
Multiple point source model for three dimensional plume flow fields 13 p1941 N84-22825
Mach number and density effects in the mixing of supersonic jets 13 p1942 N84-22828
Theoretical predictions of excitation cross sections for collisions of HF, HCl, CO, H2O, and CO2 with O(P-3)
13 p1942 N84-22830
Strength of bolted joints in laminated composites
13 p2002 N84-22992
Prediction of atmospheric flow and dispersion over sloping terrain 13 p2012 N84-23056
An approach to software cost estimation
[NASA-TM-85607] 13 p2026 N84-23136
Implementation of an optimal multicommodity network flow algorithm based on gradient projection and a path flow formulation
[AD-A138935] 13 p2029 N84-23154
Acoustic environmental accuracy requirements for response determination
[NASA-CR-171003] 13 p2039 N84-23234
On 'Before' and 'After' cost comparisons
[AD-P002799] 13 p2058 N84-23345
A study on the prediction of the starting transient process of solid propellant rocket motors
[AD-A139453] 14 p2118 N84-23692
Tribology in the 80's. Volume 1: Sessions 1 to 4
[NASA-CP-2300-VOL-1] 14 p2152 N84-23891
The conjoint action of high and low cycle fatigue
[AD-A139205] 14 p2158 N84-23927
The transfer function model: A computer program for determination of jet engine test cell exhaust particulates and opacity
[AD-A139222] 14 p2173 N84-24017
Experimental wind forecasts from the local AFOSMOS (Automation of Field Operations and Services Model Output Statistics) program
[PB84-155514] 14 p2180 N84-24062
A simple approach for determination of bursting pressure of a thick-walled cylinder
[AD-P002956] 14 p2199 N84-24196
Journal of Research of the National Bureau of Standards. Volume 88, Number 6, November-December 1983
[PB84-160605] 14 p2220 N84-24322
Chaos in optical bistability 14 p2232 N84-24388
Predicting combustor efficiency and stability performances 15 p2294 N84-24765
Bimetal and multimetal galvanic corrosion prediction using long- and short-term polarization curves
[AD-A139883] 15 p2297 N84-24786
Prediction of creep and creep relaxation of AL 2618 under variable multiaxial stresses
[AD-A139950] 15 p2297 N84-24788
Solid propellant nonlinear constitutive theory extension
[AD-A139957] 15 p2304 N84-24823
The effective behavior of inelastic composites
15 p2308 N84-24850
Reliability-based design principle of composite materials with failure probability as a statistic
15 p2309 N84-24851
Effective elastic moduli of an isotropic, two-phase composite 15 p2309 N84-24852
Prediction of field strengths near HF transmitters
[AD-B078278] 15 p2319 N84-24917
Prediction of multipath fading on terrestrial microwave links at frequencies of 11 GHz and greater
15 p2324 N84-24953

Considerations pertinent to propagation prediction methods applied to airborne microwave equipment
15 p2326 N84-24970
Doublet point method for calculations on oscillatory lifting surfaces. Part 2: Supersonic flow
[NAL-TR-785-PT-2] 16 p2439 N84-25649
Predicting the delamination of a multistage composite
[SNIAS-832-111-102] 16 p2461 N84-25771
Short pulse fracture mechanics
[AD-P003105] 16 p2467 N84-25810
Dynamic crack growth in polymers
[AD-P003106] 16 p2467 N84-25811
Dynamic kinking and bifurcation of cracks in plane strain
[AD-P003113] 16 p2468 N84-25818
Application of optical methods, including optical interference, to measure the dimensional stability of resins, resin based adhesives and resin based composites
[AD-A140297] 16 p2472 N84-25843
Surge prediction in industrial compressors
16 p2489 N84-25969
A modified modal method for nonlinear dynamic analysis of structures 16 p2501 N84-26052
Anthropometric changes at high altitude
[AD-A140311] 16 p2535 N84-26277
Ada advanced error detector
[AD-A140273] 16 p2544 N84-26334
Low-level stratus prediction using binary statistical regression: A report using Moffett Field data
[AD-A140468] 16 p2551 N84-26370
A theoretical prediction of the acoustic pressure generated by turbulence-flame front interactions
[NASA-TM-83587] 16 p2553 N84-26383
Advanced prediction technique for the low speed aerodynamics of V/STOL aircraft. Volume 1: Technical discussion
[NASA-CR-166442-VOL-1] 17 p2600 N84-26662
Advanced prediction technique for the low speed aerodynamics of V/STOL aircraft. Volume 2: User's manual
[NASA-CR-166442-VOL-2] 17 p2600 N84-26663
Monolithic F-16 uniform thickness stretched acrylic canopy transparency program
[AD-A140645] 17 p2606 N84-26694
Filtration theory approach to immiscible alloys solidification 17 p2613 N84-26729
Development of concepts for corrosion assessment and evaluation of underground pipelines
[AD-A140633] 17 p2623 N84-26788
Prediction of ductile crack growth in the austenitic steel WN 1.4948 at ambient and elevated temperature
[REPT-5011202-81-2] 17 p2625 N84-26799
Matrix cracking in composites and its effects on damaged ply constitutive behavior
17 p2677 N84-27052
Strength of composite beams with eccentric, reinforced, rectangular web openings 17 p2679 N84-27063
Revision and experimental verification of the hazard assessment computer system models for spreading, movement, dissolution, and dissipation of insoluble chemicals spilled onto water, volume 1
[AD-A140635] 17 p2724 N84-27337
Mathematics of multidart probability predictions
[AD-A140745] 17 p2760 N84-27526
The introduction of uncertainty techniques to the productivity investment fund
[AD-A140864] 17 p2770 N84-27591
A radiometric Bode's Law: Predictions for Uranus
[NASA-TM-86074] 17 p2781 N84-27659
PAN AIR: A computer program for predicting subsonic or supersonic linear potential flows about arbitrary configurations using a high order panel method. Volume 2: User's manual (version 1.1)
[NASA-CR-3252] 18 p2788 N84-27698
Development and evaluation of a performance modeling flight test approach based on quasi steady-state manuevers
[NASA-CR-170414] 18 p2793 N84-27724
Sensitivity analysis of predicted reacting flow characteristics in solid fuel ramjet combustors
[AD-A141279] 18 p2796 N84-27740
Progressive fracture of fiber composites
[NASA-TM-83701] 18 p2809 N84-27831
Simplified composite micromechanics equations for strength, fracture toughness and environmental effects
[NASA-TM-83696] 18 p2809 N84-27832
methodological problems in evaluating and predicting water-ice resources in mountainous areas
18 p2856 N84-28135
Streamflow modelling
[AD-A141281] 18 p2866 N84-28198
Investigation of test methods, material properties and processes for solar cell encapsulants
[NASA-CR-173748] 18 p2870 N84-28219
Summary of photovoltaic system performance models
[NASA-CR-173737] 18 p2870 N84-28220
Physical performance tests as predictors of task performance
[AD-P003257] 18 p2905 N84-28424
Psychophysiological tools in engineering psychology
[AD-P003337] 18 p2911 N84-28461
Evaluation of the HARDMAN comparability methodology for manpower, personnel and training
[NASA-CR-173733] 18 p2915 N84-28485
The application of HTR coated fuel particle performance models to various problems in materials' science
[AERE-R-11029] 18 p2931 N84-28589
SPAR improved structure-fluid dynamic analysis capability, phase 2
[NASA-CR-171078] 19 p3021 N84-29153
Secondary loss prediction methods --- turbines
19 p3022 N84-29164
Efficiency of nonstandard and high contact ratio involute spur gears
[NASA-TM-83725] 19 p3031 N84-29223
A computer program for predicting nonlinear uniaxial material responses using viscoplastic models
[NASA-TM-83675] 19 p3034 N84-29247
A statistical-dynamical model for forecasting cold air stratocumulus over the yellow sea
[AD-A141540] 19 p3058 N84-29403
Tropical cyclone sea-state probability model development and application
[AD-A142212] 19 p3059 N84-29407
Hydrographic data from the OPTOMA (Ocean Prediction Through Observations, Modeling and Analysis) program OPTOMA2, legs I and II, 31 July - 14 August, 1982
[AD-A141547] 19 p3061 N84-29424
Comparison of Rhesus monkey and baboon -G sub x acceleration experiments
[AD-A141395] 19 p3063 N84-29436
Validation of the military entrance physical strength capacity test
[AD-A142169] 19 p3066 N84-29451
Cognitive organization as a function of flying experience
[AD-A141767] 19 p3068 N84-29459
Noise-induced hearing loss and its prediction
19 p3069 N84-29472
On failure modeling
[AD-A141760] 19 p3087 N84-29600
Rotorcraft noise
[NASA-CP-2234] 19 p3096 N84-29662
Role of empirical methods 19 p3097 N84-29670
Priority for empirical methods development
19 p3097 N84-29671
Facility requirements for helicopter noise research
19 p3097 N84-29672
Acoustic methodology review
19 p3098 N84-29674
Propeller aircraft interior noise model
[NASA-CR-3813] 19 p3099 N84-29687
Cerenkov radiation generated by periodic electron bunches in a finite air path
[AD-A142063] 19 p3101 N84-29700
Optical adaptive filter. Frequency domain implementation
[AD-A141090] 19 p3104 N84-29718
Recent applications of the CONTAM 3 computer model to spacecraft propulsion systems
20 p3137 N84-29916
A NDT ignition delay predictive tool
20 p3143 N84-29958
The prediction of electrochemical reactivities from contemporary theory: Some comparisons with experiment
[AD-A142406] 20 p3147 N84-29985
Evaluation of U.S. Coast Guard forward-looking airborne radars
[AD-A142417] 20 p3174 N84-30156
The evaluation of prediction models for microwave attenuation by rainfall
[PB84-182104] 20 p3176 N84-30170
An integral prediction method for three-dimensional flow separation
[AD-A142551] 20 p3184 N84-30231
Techniques for fatigue life predictions from measured strains
[NASA-CR-171118] 20 p3201 N84-30334
Local bond stress-slip relationships of deformed bars under generalized excitations: Experimental results and analytical model
[PB84-192848] 20 p3204 N84-30355
Interactive computer analysis methods for predicting the inelastic cyclic behaviour of structural sections
[PB84-192012] 20 p3205 N84-30358
Spatial resolution estimation of LANDSAT-4 TM data
20 p3210 N84-30394
National Weather Service hurricane probability program
[PB84-182757] 20 p3248 N84-30619
A synoptic case study analysis of the ocean temperature anomalies in the central Pacific region, 1976 - 1979
[AD-A142548] 20 p3251 N84-30631
Human reliability analysis using event trees
[S/T-REPT-VOL-1-NO-3] 20 p3265 N84-30718
Proton-induced single event upsets in 71 Earth-satellite environments
[AD-A142435] 20 p3272 N84-30771
New approach to polarized proton scattering based on Dirac dynamics
[DE84-008018] 20 p3296 N84-30926
Ion reflection, gyration, and dissipation at supercritical shocks
[DE84-011353] 20 p3303 N84-30980
Phase and volumetric studies for methane/synthesis gas separations: The hydrogen-carbon monoxide-methane system
[PB84-214394] 21 p3375 N84-31417
Link between characteristics of EEG rhythms in biofeedback control and indexes for operator activity
21 p3455 N84-31927
Sources of error in objective analysis
[AD-A142772] 21 p3474 N84-32020
APC-2: An electron beam propagation code
[DE84-011532] 21 p3494 N84-32144
Applied chromodynamics
[DE84-009136] 21 p3495 N84-32152
A theoretical study of the energetics and dynamics of high energy inelastic collision processes
[AD-A142799] 21 p3497 N84-32163
Predictions of entropies of molecules and liquids
[DE84-010504] 21 p3507 N84-32216
Heat-of-mixing experiments for liquefied gases
[PB84-215094] 22 p3562 N84-32560
NASTRAN structural model for the large 64-meter antenna pedestal. Part 3: Applications to hydrostatic bearing oil film 22 p3574 N84-32638
Microwave terrestrial link rain attenuation prediction parameter analysis
[PB84-207984] 22 p3578 N84-32666
Numerical techniques for the prediction of flow induced orientation 22 p3591 N84-32743
Accuracy of three dimensional solid finite elements
22 p3609 N84-32867
The need for biaxial fatigue testing at A.R.L.
[AD-A143203] 22 p3611 N84-32878
Failure prediction of notched pressure vessels using the CTOD approach
[DE84-013057] 22 p3612 N84-32883
Climate prediction. Part 1: Cyclone frequency
[AD-A143576] 22 p3625 N84-32973
Development of color criteria for advanced displays
[AD-A143246] 22 p3630 N84-33006
Using statistical tools
[RAND/N-2121-PSSP] 22 p3647 N84-33124
The prediction of acoustical particle motion using an efficient polynomial curve fit procedure
[NASA-CR-173915] 22 p3651 N84-33145
Study on the perturbation of lunar and planetary orbiters
[MATRA-CMT-RT005] 23 p3697 N84-33429
Theoretical analysis of microwave propagation
[AD-A143762] 23 p3731 N84-33647
Prediction of battery life and behavior from analysis of voltage data 23 p3737 N84-33685
Prediction model for the life of nickel-cadmium batteries in geosynchronous orbit satellites
23 p3737 N84-33686
Report of the Meeting of Experts on Sea Ice and Climate Modelling
[WCP-77] 23 p3801 N84-34101
Predictability of inversions at Vandenberg (VBG) AFB, California
[AD-A144042] 23 p3802 N84-34107
Validation of relative-time-spent rating scales
[AD-A144067] 23 p3812 N84-34169
Development of real-time error ellipses as an indicator of Kalman filter performance
[AD-A143698] 23 p3812 N84-34174
Application of advanced parameter identification methods for flight flutter data analysis with comparisons to current techniques 24 p3848 N84-34401
Predictive thermal-vacuum modeling by variable coefficients 24 p3864 N84-34493
Macrosegregation in aluminum alloy ingot cast by the semicontinuous direct chill method
24 p3883 N84-34600
Spaceborne lasers in atmospheric research
24 p3904 N84-34721
Are droughts predictable?
[INPE-3274-PRE/598] 24 p3923 N84-34826
LAMPS software 24 p3931 N84-34884
On the study of the prediction method of ionospheric F2-layer critical frequency 24 p3955 N84-35043

Studies of compound states of atomic negative ions using laser beams
[AD-A144653] 24 p3962 N84-35091

PREDICTIONS
NT FLOOD PREDICTIONS
NT IMPACT PREDICTION
NT LINEAR PREDICTION
NT NOISE PREDICTION
NT NOISE PREDICTION (AIRCRAFT)
NT PERFORMANCE PREDICTION

Explanation of the hypersonic longitudinal stability problem: Lessons learned 01 p0021 N84-10130
Space shuttle orbiter reaction control subsystem flight data anomalies 01 p0021 N84-10131
Space shuttle wing leading edge heating environment prediction derived from development flight data 01 p0025 N84-10162
Subsonic longitudinal performance coefficient extraction from shuttle flight data: An accuracy assessment for determination of data base updates 01 p0026 N84-10163
The development of aerodynamic uncertainties for the space shuttle orbiter 01 p0026 N84-10164
Height extrapolation of wind data
[DE83-012974] 01 p0109 N84-10706
Cervical spline analysis for ejection injury prediction
[AD-A131081] 01 p0114 N84-10739
The initial design of active control systems for a flexible aircraft 02 p0171 N84-11125
Prediction of microstructural modification in dynamically consolidated metal powders
[DE83-015690] 02 p0196 N84-11278
Prediction of hydraulic pump failures through wear debris analysis
[AD-A131386] 02 p0229 N84-11503
Objective analysis and prediction techniques
[AD-A131465] 02 p0256 N84-11675
Improved wave drag predictions using modified linear theory
[NASA-CR-174494] 03 p0320 N84-12096
Predicting aerodynamic characteristics of vortical flows on three-dimensional configurations using a surface-singularity panel method 03 p0323 N84-12112
Soot formation from polycyclic aromatics
[DE83-009750] 03 p0349 N84-12271
Life prediction under stress corrosion conditions below K sub ISCC
[DE83-018074] 03 p0355 N84-12307
Racial bias and predictive validity in testing for selection
[AD-A131830] 03 p0416 N84-12722
Triservice program for extending missile aerodynamic data base and prediction program using rational modeling
[AD-A132455] 04 p0481 N84-13166
Glass fibre/epoxy resin interface life-time prediction
[AD-A132206] 04 p0507 N84-13320
Recent progress at NBS in fire growth modeling 04 p0513 N84-13372
RF performance of a proposed L-band antenna system 04 p0519 N84-13410
Probabilistic fatigue life predictions of structural components in high-cycle fatigue regimes
[AD-A132425] 04 p0549 N84-13615
Parametric model for peak flow prediction in ungaged ephemeral watersheds
[PB83-249698] 04 p0555 N84-13658
PREWATE: An interactive preprocessing computer code to the Weight Analysis of Turbine Engines (WATE) computer code
[NASA-TM-83545] 04 p0578 N84-13812
Selecting a subset of regression variables so as to maximize the prediction accuracy at a specified point
[CSIR-TWISK-275] 04 p0591 N84-13903
A predictive view of the detection of influential observations in Gmanova
[CSIR-TR-83] 04 p0591 N84-13904
Energy-efficient automobiles for the future
[DE84-000600] 04 p0617 N84-14073
TAS: A Transonic Aircraft/Store flow field prediction code
[NASA-CR-3721] 06 p0781 N84-15114
Finite element analysis of fluid-filled elastic piping systems 06 p0859 N84-15600
Data analysis and theoretical studies for atmospheric Explorer C, D and E
[NASA-CR-175121] 06 p0878 N84-15711
A comparison of NMC models (1977) on precipitation forecasts for east coast cyclogenesis 06 p0879 N84-15720
Comparison of IRT observed-score and true-score equatings
[AD-A133871] 06 p0891 N84-15791
Special opportunities in helicopter aerodynamics
[NASA-TM-84396] 07 p0946 N84-16138
Presentation of a new adaptive intraframe prediction procedure — television signals
[IND-FB-112] 07 p0994 N84-16446
Conformal solution methods based on the hard convex body expansion theory, section 1
[PB84-100940] 08 p1128 N84-17332
Risk models for risk distance prediction during release of toxic industrial chemicals caused by acts of war
[FOA-C-40185-C2(H2)] 08 p1183 N84-17707
Cognition and arousal as predictors of risk taking: Effects of load and cognitive style
[AD-A134324] 08 p1203 N84-17843
A cost prediction model for electronic systems flight test costs
[AD-A135598] 09 p1255 N84-18195
Reliability modeling of critical electronic devices
[AD-A135705] 09 p1328 N84-18669
Sustained load crack growth in Inconel 718 under non-isothermal conditions
[AD-A136925] 10 p1460 N84-19535
Field strength prediction with a topographical data base: Experience gained in the Federal Republic of Germany — terrestrial mobile radio systems 10 p1476 N84-19644
Analytical prediction of turbulent heat transfer parameters
[AD-A137515] 10 p1491 N84-19752
Techniques for predictive maintenance in industrial installation and failure diagnostic 10 p1503 N84-19824
Argentina wheat yield model
[E84-10101] 12 p1828 N84-21919
Argentina soybean yield model
[E84-10102] 12 p1828 N84-21920
Brazil wheat yield covariance model
[E84-10103] 12 p1829 N84-21921
Brazil soybean yield covariance model
[E84-10104] 12 p1829 N84-21922
Argentina corn yield model
[E84-10105] 12 p1829 N84-21923
Theoretical predictions for the phase stability of dense binary mixtures 13 p2072 N84-23428
Predictability of the Earth's polar motion
[NASA-TM-86095] 14 p2169 N84-23991
Preliminary method for estimating hinge moments of all-movable controls
[AD-A139726] 15 p2264 N84-24597
Droplet size distribution and liquid volume concentration in a water spray: Predictions and measurements 15 p2291 N84-24748
Spherical propagation models for multipath-propagation predictions 15 p2324 N84-24956
Anomalous propagation and radar coverage through inhomogeneous atmospheres 15 p2326 N84-24967
Handbook - H8: Description of services 15 p2367 N84-25202
The future of computing technology in physics: The potentials and pitfalls
[DE84-007249] 15 p2389 N84-25330
SAMICS: Engineering/economic model to predict costs 15 p2430 N84-25591
Self-oscillations and predictability in climate dynamics
[AERONOMICA-ACTA-A-278-1984] 16 p2527 N84-26226
Application of a global solar wind/planetary obstacle interaction computational model: Earth, Venus, Mars, Jupiter and Saturn studies 16 p2572 N84-26510
Prediction of transition states and thermochemistry for combustion reactions
[AD-A140736] 17 p2619 N84-26761
Magnetohydrodynamic generator helps predict earthquakes 17 p2700 N84-27199
New variant of evaluation of predicted petroleum and as reserves on genetic basis 17 p2703 N84-27219
Conditions for two-cell structure in severe vortical storms
[AD-A138242] 17 p2734 N84-27381
CARE 3: Model overview and user's guide
[NASA-TM-85810] 18 p2920 N84-28514
An experimental and theoretical analysis of the aerodynamic characteristics of a biplane-winglet configuration
[NASA-TM-85815] 19 p2963 N84-28779
The transient gravity wave critical layer
[AD-A141095] 19 p3053 N84-29377
Hydrographic data from the OPTOMA (Ocean Prediction Through Observations, Modeling and Analysis) program: OPTOMA1, 8 to 13 March 1982
[AD-A141666] 19 p3061 N84-29425
A theoretical and experimental study of turbulent nonevaporating sprays
[NASA-CR-174668] 20 p3130 N84-29877
Tropospheric science 20 p3219 N84-30447
Prediction of slant wind shear with an offset tower observation system
[AD-A142676] 20 p3246 N84-30600
Transfer during sliding wear of selected metal systems 21 p3364 N84-31341
Magnetically confined kinetic-energy storage ring: A new fundamental energy-storage concept
[DE84-011531] 21 p3435 N84-31793
Three-dimensional computer model for the atmospheric general circulation experiment
[NASA-CR-171109] 21 p3446 N84-31863
An improved method for the prediction of centrifugal compressor rotational-tone noise
[DE84-013345] 22 p3605 N84-32842
Finite element prediction of acoustic scattering and radiation from submerged elastic structures 22 p3610 N84-32874
Predictions of satisfaction with automated library circulation systems 22 p3670 N84-33259
PAN AIR: A computer program for predicting subsonic or supersonic linear potential flows about arbitrary configurations using a higher order panel method. Volume 4: Maintenance document (version 1.1)
[NASA-CR-3254] 23 p3690 N84-33388
On the study of the prediction method of ionospheric F2-layer critical frequency 24 p3955 N84-35043

PREDICTORS
U PREDICTIONS

PREFLIGHT ANALYSIS
Preflight transient dynamic analyses of B-52 aircraft carrying Space Shuttle solid rocket booster drop-test vehicle
[NASA-TM-84925] 06 p0858 N84-15588
The Spacelab flight unit offgassing test
[ESA-STM-232] 23 p3701 N84-33460

PREFORMS
Effect of preforming adherends on static and fatigue strength of bonded composite single-lap joints
[NASA-TP-2324] 16 p2501 N84-26053

PREHEATERS
U HEATING EQUIPMENT

PREHEATING
U HEATING

PREJUDICES
The relationship between administrative style and the use of computer-based systems: An attitudinal study of academic library professionals 21 p3517 N84-32276

PRELAUNCH PROBLEMS
In-house welding studies supporting the prelaunch assessment of the STS-6 main engines
[NASA-TM-82552] 02 p0229 N84-11499

PRELAUNCH SUMMARIES
STS-9 Spacelab 1 press kit
[PB3-10209] 03 p0341 N84-12214

PRELAUNCH TESTS
NT STATIC FIRING
Viking lander: Building a complex spacecraft 24 p3991 N84-35256

PRELOADING
U PRESTRESSING

PREMIXED FLAMES
Laser spectroscopy of propellant-like flames
[AD-A132042] 03 p0349 N84-12267
Theoretical and experimental investigation of turbulent premixed flames 03 p0370 N84-12409
A review of theories currently being used to model steady plane flames on flame-holders
[CA-8316] 06 p0800 N84-15218
Second order theory of unsteady burned-anchored flames with arbitrary Lewis number
[CA-8313] 06 p0801 N84-15219
Transport algorithms for methane flames
[AD-A133213] 06 p0801 N84-15221
Saturated laser fluorescence in turbulent sooting flames at high pressure 11 p1612 N84-20551
Lean limit phenomena 11 p1612 N84-20552
Aerodynamic features of flames in premixed gases 11 p1613 N84-20559
Combustor flame flashback 11 p1614 N84-20561
Mechanism of soot formation in premixed C2H2/O2 flames 13 p1958 N84-22727
Monte Carlo calculations of two-dimensional combustor flows
[AD-A139569] 14 p2123 N84-23724
Quasi-steady flames on an evolving atmosphere
[CAR-8406] 21 p3358 N84-31302
Conditional velocity statistics in premixed CH-4-air and C-2H-4-air turbulent flames
[DE84-012257] 22 p3549 N84-32464

PREMIXING
Experimental study of the operating characteristics of premixing-prevaporizing fuel/air mixing passages
[NASA-CR-168279] 05 p0830 N84-14143
Aerodynamic features of flames in premixed gases 11 p1613 N84-20559
Combustor flame flashback 11 p1614 N84-20561

PREPARATION
NT PRECONDITIONING
NT PRESTRESSING
NT PRETREATMENT
PREPOLYMERS
NT DIMERS
Cyclic voltammetry of polysulfide (Thiokol) prepolymers and related compounds
[MRL-R-911] 08 p1136 N84-17387
Nitrate ester polyether glycol prepolymers
20 p3142 N84-29947
PREPREGS
Vinyl styrylpyridines and their copolymerization with bismaleimide resins
[NASA-CASE-ARC-11429-1-CU]
07 p0979 N84-16341
Characterization of PMR polyimide resin and prepreg
[NASA-CR-168217] 11 p1636 N84-20695
Some properties of epoxy resins used for filament winding and preimpregnating fibres
[AERE-R-10966] 18 p2820 N84-27905
A theoretical study of resin flows for thermosetting materials during prepreg processing
[NASA-CR-172442] 23 p3724 N84-33596
PREPROCESSING
MAGNA (Materially And Geometrically Nonlinear Analysis). Part 2: Preprocessor manual
[AD-A129025] 01 p0120 N84-10782
Voice preprocessing system incorporating a real-time spectrum analyzer with programmable switched-capacitor filters
[AD-A137999] 12 p1805 N84-21769
A potentially powerful method of simple automatic recognition exhibiting scale and orientation independence — image processing
[BAE-BT-11086] 13 p2021 N84-23102
Runtime detection and description of deadness errors in Ada tasking
[AD-A142239] 19 p3079 N84-29535
LANDSAT 4 band 6 data evaluation
[E84-10175] 21 p3427 N84-31737
Cascaded adaptive loops
[AD-D011116] 22 p3580 N84-32674
A new adaptive antenna system for coherent signals and interference
[AD-A144355] 24 p3898 N84-34683
PRESELECTORS
U PREAMPLIFIERS
PRESERVATIVES
Karnovsky-osmium as a primary fixative for electron microscopy
[AD-A142671] 20 p3300 N84-30957
PRESERVING
Computer science and technology: Care and handling of computer magnetic storage media
[PB83-237271] 02 p0276 N84-11809
Food preservation with gas 11 p1640 N84-20719
Calculations of intermittency in self-preserving, free turbulent jets and wakes
[CFD/83/10] 15 p2332 N84-25006
Color film preservation system: Breadboard development
[NASA-CR-171099] 19 p3026 N84-29194
PRESIDENTIAL REPORTS
Aeronautics and space report of the President, 1982 activities
[NASA-TM-85454] 01 p0166 N84-11093
Publications of the Executive Office of the President, January 20, 1981 - March 31, 1984
[PB84-162326] 21 p3519 N84-32298
Goals and activities of the National Commission on Libraries and Information Science
[ISSN-0091-2972] 22 p3673 N84-33282
A decade of accomplishment
[ISSN-0091-2972] 22 p3673 N84-33283
Aeronautics and space report of the President, 1983 activities
[NASA-TM-85538] 22 p3684 N84-33364
PRESINTERING
U SINTERING
PRESSES
Technical information concerning rubber cushion presses 02 p0206 N84-11346
Feasibility of using a large press (80,000 - 200,000 tons) for manufacturing future components on Army systems
[AD-A132398] 04 p0544 N84-13582
Hydraulic presses
[AD-A139622] 16 p2477 N84-25877
Automation of a stamping press using sequential hydraulic manipulators
[CETIM-1-4N-090] 21 p3376 N84-31422
Automation of a drop forge at the Centre Techniques des Industries Mecaniques (CETIM) forge section
[CETIM-1.3K.27.3] 21 p3376 N84-31423
PRESSING (FORMING)
NT STAMPING
Feasibility of using a large press (80,000 - 200,000 tons) for manufacturing future components on Army systems
[AD-A132398] 04 p0544 N84-13582
Development of a process controlled pressline of enhanced technology for the production of sheet metal parts for the aircraft industry by a high pressure rubber pad system
[BMFT-FB-W-83-006] 05 p0626 N84-14116
The preparation of sodium beta-alumina by the isostatic pressing and zone sintering of spray dried powders
11 p1744 N84-21377
Method for solving variation problems of plasticity theory — metal working
[BLL-M-35555-(5828.4)] 17 p2676 N84-27047
Certain assumptions of theory of hydrodynamic lubrication during metal pressure working
[BLL-M-35681-(5828.4)] 22 p3603 N84-32822
PRESSURE
NT ATMOSPHERIC PRESSURE
NT BASE PRESSURE
NT BLOOD PRESSURE
NT DENSIFICATION
NT DYNAMIC PRESSURE
NT FLUID PRESSURE
NT GAS PRESSURE
NT GEOPRESSURE
NT HIGH PRESSURE
NT HIGH VACUUM
NT HYDROSTATIC PRESSURE
NT HYPERTENSION
NT ILLUMINANCE
NT IMPACT LOADS
NT INLET PRESSURE
NT INTERNAL PRESSURE
NT INTRACRANIAL PRESSURE
NT ISOSTATIC PRESSURE
NT LOW PRESSURE
NT LUMINANCE
NT LUMINOUS INTENSITY
NT OVERPRESSURE
NT PARTIAL PRESSURE
NT RADIATION PRESSURE
NT SOUND PRESSURE
NT STAGNATION PRESSURE
NT STATIC PRESSURE
NT SUPERCRITICAL PRESSURES
NT TRANSIENT PRESSURES
NT TRANSITION PRESSURE
NT ULTRAHIGH VACUUM
NT VACUUM
NT VAPOR PRESSURE
NT WALL PRESSURE
NT WATER PRESSURE
NT WIND PRESSURE
Characterization of hydroxylammonium nitrate (HAN) at various pressures and temperatures
[AD-A131574] 02 p0203 N84-11324
Effects of JP-4 fuel on Graphite/Epoxy composites
[AD-A135416] 08 p1122 N84-17296
Behavior of pressurized cylinders with multiple internal cracks
[AD-A136104] 09 p1334 N84-18707
Multivariate optimum interpolation of surface pressure and winds over oceans 12 p1853 N84-22069
Measurement of the peel and pull-off strength of coatings and finishes with pressure-sensitive tapes
[ESA-PSS-01-713-ISSUE-1] 16 p2472 N84-25847
Use of theory of systems with dispersed parameters to formulate deformation resistance equations in pressure working of metals: Communication 2
[BLL-M-35595-(5828.4)] 21 p3363 N84-31337
PRESSURE BREATHING
Voice communication and positive pressure breathing in noise
[AD-A141303] 18 p2830 N84-27965
Improved G-Tolerance with assisted positive pressure breathing and anti-gravity suit with ready pressure and faster filling
[FOA-A-58002-H1] 19 p3071 N84-29486
Functional state and work capacity of man when breathing oxygen and hypoxic mixtures under positive pressure 20 p3254 N84-30654
PRESSURE CABINS
U PRESSURIZED CABINS
PRESSURE CHAMBERS
NT HYPERBARIC CHAMBERS
NT VACUUM CHAMBERS
Device for graded exercising of rats in pressure chamber 02 p0262 N84-11719
Measurements in liquid fuel sprays
11 p1606 N84-20526
Effect of high ammonia content in pressure chamber atmosphere on human adrenocortical system function
20 p3255 N84-30658
PRESSURE DEPENDENCE
Cross spectra between pressure and temperature in a constant-area duct downstream of a hydrogen-fueled combustor
[NASA-TM-83463] 02 p0287 N84-11885
Growth of epitaxial ice crystals on covellite (CuS) under reduced air pressure 02 p0306 N84-12008
Prediction of pressure induced structural phase transitions and internal mode frequency changes in solid N2+
[DE83-014279] 05 p0756 N84-14960
Role of pressure in understanding the anomalous superconductivity in europium (molybdenum)6(sulfur)8 and (TMTSF)2FSO3
[DE83-017292] 06 p0925 N84-16012
Shock temperatures in anorthite glass
[NASA-CR-173364] 09 p1287 N84-18401
The flow of an electrorheological suspension in cells of different geometries
[RAE-TRANS-2111] 11 p1646 N84-20760
A calculation of the pressure dependent energy bands of cooper chloride
[INPE-3094-PRE/498] 16 p2559 N84-26419
Pressure-dependence of glass transition temperature of elastomeric glasses
[AD-A141485] 19 p2998 N84-28999
An assessment of methods of geological basin analysis for application to the Uinta and Piceance Basins
[DE84-012369] 20 p3242 N84-30581
Pressure effects on wall heat transfer during flame quenching
[DE84-012265] 21 p3401 N84-31575
X-ray spectroscopy of solids under pressure
[DE84-013790] 22 p3665 N84-33237
PRESSURE DISTRIBUTION
Plume base flow simulation technology
01 p0018 N84-10116
Supersonic loads due to shuttle-orbiter/external-tank attachment structures 01 p0019 N84-10122
Pressure and heating-rate distributions on a corrugated surface in a supersonic turbulent boundary layer
[NASA-TP-1024] 01 p0077 N84-10504
A field of pressures of shock waves during a powerful underwater discharge
[AD-A130084] 01 p0078 N84-10510
Preliminary design of aircraft using structural optimization methods 02 p0172 N84-11133
Analysis of pressure distributions on a wing with an oscillating trailing edge flap in subsonic and transonic flow 04 p0478 N84-13145
Specification for a Program for an Interative Aeroelastic Solution (PIAS)
[NASA-CR-172200] 04 p0479 N84-13153
Internal pressure distributions for a two-dimensional thrust-reversing nozzle operating at a free-stream Mach number of zero
[NASA-TM-85655] 04 p0480 N84-13161
An experimental investigation into the forebody and engine inlet airflow characteristics of a photographic reconnaissance window pallet on the RF/A-18 aircraft
[AD-A132271] 04 p0481 N84-13167
Investigation of the wall pressure, wall shear stress and velocity fields associated with a turbulent spot in a laminar boundary layer 04 p0531 N84-13488
Calculation of transonic flow around two wing-fuselage combinations using a full potential equation method
[FFA-137] 06 p0783 N84-15132
Propagating plane harmonic waves through finite length plates of variable thickness using finite element techniques 06 p0860 N84-15601
Potential flow analysis of glaze ice accretions on an airfoil
[NASA-CR-168282] 07 p0947 N84-16146
Experimental investigation of turbulent flow in the inlet region of an eccentric annulus
[KFK-3573] 07 p1004 N84-16511
Distribution of unit pressures in universal spindle joint
08 p1165 N84-17588
Flow behavior in the Wright Brothers Facility
[WBWT-TR-1187] 08 p1237 N84-18088
High altitude maneuver control tests in the NSWC (Naval Surface Weapons Center) hypervelocity wind tunnel
[AD-A136105] 09 p1253 N84-18178
Continued experimental investigation of dynamic stall
[AD-A136920] 10 p1421 N84-19294
Rotordynamic characteristics of the HPOTP (High Pressure Oxygen Turbopump) of the SSME (Space Shuttle Main Engine)
[NASA-CR-170987] 10 p1438 N84-19389
Flow processes in overexpanded chemical rocket nozzles. Part 2: Side loads due to asymmetric separation
[NASA-TM-77395] 10 p1450 N84-19471
Flow generation in a novel centrifugal diffuser test device
[AD-A136874] 10 p1492 N84-19754

Fluid-structure interaction by the method of characteristics 10 p1510 N84-19884
Mach number correlation for a two-dimensional helicopter rotor-blade analysis in the tip region 12 p1765 N84-21509
Ultrasonic transducer with Gaussian radial pressure distribution [NASA-CASE-LAR-12967-1] 13 p1993 N84-22932
Definition, sources and lowest possible levels of wind-tunnel turbulence 14 p2096 N84-23576
A numerical technique in the hydrodynamic theory of foil bearings [AD-P002966] 14 p2200 N84-24204
Studies of the behavior of a snow cover on a mountain slope. 14: Poisson's ratio of snow, 2 15 p2353 N84-25120
Evaluation of boundary layer measurements in two-dimensional compressible subsonic flow with a pressure gradient across the boundary layer [ESA-TT-810] 16 p2440 N84-25653
Experimental pressure distributions on axisymmetric forebodies at Mach 3 and angles of attack up to 17.5 degrees [AD-A140321] 16 p2442 N84-25668
In-flight measurement of pressure distribution over T-38 student canopy [AD-P003207] 17 p2593 N84-26620
A numerical analysis for blade tip loadings on a thick bladed hovering helicopter rotor 17 p2599 N84-26658
Interaction of air shock waves and porous shield 17 p2645 N84-26922
Separation flow at concave conical wings 17 p2647 N84-26933
Aerodynamic characteristics of 2 NASA supercritical airfoils with different maximum thickness [NASA-TM-X-2532] 18 p2784 N84-27667
Computation of imaginary-side pressure distributions over the flexible walls of the test section insert for the 0.3-M transonic cryogenic tunnel [NASA-CR-172363] 18 p2785 N84-27678
KC-135 wing and winglet flight pressure distributions, loads, and wing deflection results with some wind tunnel comparisons 18 p2787 N84-27688
Numerical optimization design of advanced transonic wing configurations [NASA-TM-85950] 18 p2792 N84-27718
High speed ejectors [AD-A141562] 18 p2796 N84-27741
Features of sound penetration from air into water 18 p2858 N84-28152
Comparative measurements of the unsteady pressures on three oscillating wing-tip models [DFVLR-FB-84-07] 19 p2960 N84-28758
Stabilized luminous arcs (rotating arcs) in nitrogen and carbon dioxide at pressures of one to forty atmospheres [NASA-TM-77506] 19 p3012 N84-29095
Real jet effects on dual jets in a crossflow [NASA-CR-173817] 19 p3022 N84-29161
Wave-less free-surface pressure distributions [AD-A141630] 19 p3024 N84-29176
An inverse laminar boundary layer problem with assigned wall shear: The mechul function revisited [AD-A142328] 19 p3025 N84-29182
Simulation of physiological effects of negative pressure on man 20 p3255 N84-30662
Investigation of parameters influencing the deflection of a thick wall jet by a thin wall jet coflowing over a rounded corner [AD-A142773] 21 p3325 N84-31099
Results of the AFRSI detailed-environment test of the 0.035-scale SSV pressure-loads model 84-0 in the Ames 11x11 ft. TWT and the Lewis 8x6 ft. and 10x10 ft. SWT (OA-310A, B, C), volume 2 [NASA-CR-167686] 21 p3351 N84-31260
Results of the AFRSI detailed-environment test of the 0.035-scale SSV pressure-loads model 84-0 in the Ames 11x11 ft. TWT and the Lewis 8x6 ft. and 10x10 ft. SWT (OA-310A, B, C), volume 1 [NASA-CR-167685] 21 p3352 N84-31261
Fuselage and nozzle pressure distributions of a 1/12-scale F-15 propulsion model at transonic speeds. Effect of fuselage modifications and nozzle variables [NASA-TP-2333] 22 p3531 N84-32354
Calculation of the pressure distribution on a pitching airfoil with application to the Darrieus rotor [DE84-013571] 22 p3532 N84-32363
Representation of potential flow about axisymmetric bodies with discrete singularities [AD-A143526] 22 p3594 N84-32760
Laser beam duct pressure controller system [AD-D011102] 22 p3601 N84-32811
Opening of an interface flaw in a layered elastic half-plane under compressive loading [NASA-TM-86282] 22 p3611 N84-32877
Studies in climate [PB84-196385] 22 p3626 N84-32977
An experimental investigation of an underexpanded rectangular jet ejector 23 p3688 N84-33374
Results of design studies and wind tunnel tests of an advanced high lift system for an Energy Efficient Transport [NASA-CR-159389] 23 p3693 N84-33403
A theoretical model for the cross spectra between pressure and temperature downstream of a combustor [NASA-TM-83671] 23 p3821 N84-34231
Wake profile measurements of fixed and oscillating flaps [NASA-CR-166602] 24 p3852 N84-34428
A comparison of experimental and theoretical results for leakage, pressure distribution, and rotordynamic coefficients for annular gas seals [NASA-CR-174000] 24 p3910 N84-34765

PRESSURE DRAG
NT INTERFERENCE DRAG
NT SUPERSONIC DRAG
NT WAVE DRAG
Embedded cavity drag in steady and unsteady flows [NASA-CR-172275] 04 p0531 N84-13493
An investigation of new possibilities to simplify the standard supersonic area rule [AD-A137018] 10 p1422 N84-19297

PRESSURE DROP
Effects of pressure-drop correlations on Stirling-engine predicted performance [DE83-017279] 03 p0384 N84-12501
Tube vibration in industrial-size test heat exchanger (90 deg square layout) [DE83-011931] 06 p0862 N84-15614
Design optimization studies for nonimaging concentrating solar collector tubes [DE84-001368] 12 p1843 N84-22017

PRESSURE EFFECTS
A study of the convective atmospheric boundary and surface layers 02 p0246 N84-11609
Effects of pressure on deep electronic levels in semiconductors [DE83-016247] 02 p0299 N84-11965
The effects of hyperbaric elemental gases on the rate coefficient of K(+) influx in mammalian synaptosomes 04 p0570 N84-13754
Chemistry of shock compression: A bibliography [DE84-002192] 05 p0651 N84-14279
High pressure properties of solid alpha oxygen 05 p0757 N84-14963
Effects of unsteadiness on turbulent boundary layers 06 p0838 N84-15457
Effect of pressure on conductivity in Poly(Ethylene oxide) complexed with alkali metal salts [AD-A134562] 07 p0970 N84-16285
Critical heat flux in forced convection boiling of Freon in a tube at high subcritical pressure: In the case of vapor-liquid mixture at inlet 07 p0984 N84-16373
Large deformation analysis of a cylindrical shell under pure bending and pressurization 07 p1015 N84-16582
The time development of a blast wave with shock heated electrons [NASA-CR-175364] 08 p1156 N84-17529
Obtaining the zero-temperature equation of state from shock data [DE84-006696] 11 p1728 N84-21272
Development and marketing of a prosthetic urinary control valve system [NASA-CR-170994] 12 p1867 N84-22168
Real time pressure signal system for a rotary engine [NASA-CASE-LEW-13622-1] 13 p1931 N84-22559
The effect of ice temperature on regelation velocities 15 p2353 N84-25113
Techniques and instrumentation for the measurement of transient sound energy flux [ISVR-TR-122A] 15 p2404 N84-25427
Some specifics of influence of pore pressure on physical properties of deformable rocks 18 p2864 N84-28180
Nonlinear dynamics of magnetic islands with curvature and pressure [DE84-010966] 20 p3285 N84-30859
Confinement time and energy balance in the CTX spheromak [DE84-007492] 20 p3304 N84-30987
Structural pressure sensitive silicone adhesives [NASA-CASE-LAR-13270-1] 22 p3558 N84-32532

PRESSURE FIELDS
U PRESSURE DISTRIBUTION

PRESSURE GAGES
NT BAROMETERS
NT BAYARD-ALPERT IONIZATION GAGES
NT KNUDSEN GAGES
NT PIEZOELECTRIC GAGES
NT PIEZOMETERS
Novel optical pin using microballoons [DE83-015222] 03 p0367 N84-12391
Studies of the behavior of a snow cover on a mountain slope. 14: Poisson's ratio of snow, 2 15 p2353 N84-25120

PRESSURE GRADIENTS
A study of transonic normal shock wave-turbulent boundary layer interactions in axisymmetric internal flow 01 p0002 N84-10015
Flow-through boundary conditions for time-dependent, buoyancy-influenced flow simulations using low order finite elements [DE83-010256] 02 p0218 N84-11430
A contribution to the problem of vortex breakdown 03 p0325 N84-12125
Experimentation with turbulent flows experiencing the effects of an adverse pressure gradient 03 p0325 N84-12127
Quasi-steady solar wind dynamics 03 p0474 N84-13120
Investigation of axisymmetric confined turbulent jet mixing in the near region with adverse pressure gradient 04 p0478 N84-13148
Further studies on equal-order interpolation for Navier-Stokes [DE84-000916] 04 p0534 N84-13512
Role of the radiation pressure gradient in giant and supergiant star evolution [DE84-001715] 05 p0763 N84-15007
Stirling engines with controlled evaporation of a two-phase two-component working fluid [DE83-017284] 06 p0853 N84-15560
Interaction of a turbulent boundary layer with a normal shock wave followed by an adverse pressure gradient [ARL-MECH-ENG-REPT-161] 07 p1000 N84-16487
Trailing edge flow conditions as a factor in airfoil design [NASA-CR-173294] 08 p1098 N84-17140
Analysis of transonic shock induced separated flow including normal pressure gradients [AD-A137052] 10 p1422 N84-19298
Turbulence generated pressure fluctuations in a class of interior flows 10 p1423 N84-19306
Predicting the onset of turbulence in the presence of a pressure gradient [AD-A136980] 10 p1493 N84-19760
An experimental study of the properties of surface pressure fluctuations in strong adverse pressure gradient turbulent boundary layers [NASA-CR-175410] 11 p1601 N84-20488
Development of the CARS method for measurement of pressure and temperature gradients in centrifuges [DE84-006321] 11 p1629 N84-20660
Effect of high latitude filtering on NWP skill 12 p1852 N84-22066
Investigation of the effects of pressure gradient, temperature and wall temperature ratio on the stagnation point heat transfer for circular cylinders and gas turbine vanes [NASA-CR-174667] 14 p2109 N84-23649
Modeling of zero gravity venting [NASA-CR-173503] 14 p2145 N84-23854
Swirl at gas-intake inlet [AD-A139472] 14 p2146 N84-23861
Effect of acoustic perturbations on flow structure in boundary layer with unfavorable pressure gradient 17 p2648 N84-26935
Acta mechanica sinica (Selected articles) [AD-A142128] 19 p3024 N84-29180
An inverse laminar boundary layer problem with assigned wall shear: The mechul function revisited [AD-A142328] 19 p3025 N84-29182
First- and second-phase gravity field solutions based on satellite altimetry [AD-A142256] 19 p3054 N84-29381
Analytical and experimental investigation of stator endwall countouring in a small axial-flow turbine [NASA-TP-2309] 22 p3536 N84-32388
Manipulation of the mixing process between streams of different velocity and temperature in the presence of pressure gradient [AD-A143467] 22 p3593 N84-32757

PRESSURE HEADS
The flow of an electrorheological suspension in cells of different geometries [RAE-TRANS-2111] 11 p1646 N84-20760

PRESSURE MEASUREMENT
Subsonic high-angle-of-attack aerodynamic characteristics of a cone and cylinder with triangular cross sections and a cone with a square cross section [NASA-TM-84377] 01 p0003 N84-10019
Comparison of calculated results from 2 analytical models with measured data from a heat-exchanger flow test [DE83-013071] 01 p0082 N84-10534

Evaluation of the variable reluctance transducer/carrier amplifier method of measuring low pneumatic pressures in aerodynamic and propulsion testing
[AD-A130695] 01 p0084 N84-10548
Further results on the predictions of collapse pressure of a ring stiffened cylindrical shell subject to hydrostatic pressure
[AD-A130877] 01 p0095 N84-10619
Rarefaction velocities in shocked tantalum and the high-pressure melting point
[DE83-015916] 02 p0195 N84-11268
A candidate hypothesis for the generation of quasi-biennial variations in sea level pressure
02 p0252 N84-11652
Vacuum measurements on the tandem mirror experiment upgrade (TMX-U) fusion experiment
[DE83-017836] 03 p0448 N84-12948
Fiber optics temperature and pressure probe
[DE84-001785] 04 p0605 N84-13990
Calibration of air-data systems and flow direction sensors. AGARD Flight Test Techniques Series, volume 1
[AGARD-AG-300-VOL-1] 06 p0848 N84-15530
Comparison of calculated and measured pressures on straight and swept-tip model rotor blades
[NASA-TM-85872] 07 p0947 N84-16143
Vehicular pressure measuring system
[DE84-003426] 07 p1008 N84-16536
Hot-flow tests of a series of 10-percent-scale turbofan forced mixing nozzles
[NASA-TP-2268] 08 p1156 N84-17525
Static feed water electrolysis subsystem testing and component development
[NASA-CR-166539] 08 p1205 N84-17856
Experiment of a shockless transonic airfoil
[NAL-TR-783] 09 p1251 N84-18166
Results of the test on ONERA calibration model M5 in NAL 2m x 2m Transonic Wind Tunnel
[NAL-TR-774T] 09 p1259 N84-18215
Simplified combustion noise theory yielding a prediction of fluctuating pressure level
[NASA-TP-2237] 09 p1386 N84-19049
Pressure measurements in a rapidly rotating and coning, highly viscous fluid
[AD-A136824] 10 p1491 N84-19753
The infinite line pressure probe
[NASA-TM-83582] 10 p1498 N84-19787
Comparison between vortex flowmeter and pressure flowmeters
[PTB-ME-47] 10 p1499 N84-19800
A parametric study of ramrocket performance
[ARL-MECH-ENG-NOTE-395] 11 p1625 N84-20633
Theoretical and experimental analysis of laser altimeters for barometric measurements over the ocean
[NASA-CR-175443] 11 p1662 N84-20842
Error analysis of vapor pressure measurements
[AD-A137584] 11 p1728 N84-21271
Electronic scanning pressure measuring system and transducer package
[NASA-CASE-ARC-11361-1] 13 p1993 N84-22934
New methods of excitation, acquisition and data reduction about unsteady wind tunnel tests
14 p2099 N84-23599
Recent developments in the measurement of time-dependent pressures 14 p2100 N84-23601
Boundary layer trip performance test on a 7-deg cone model at mach number 8
[AD-A139406] 14 p2146 N84-23860
Air blast loadings on building elements from detonating 8.4 Kg Comp high explosive charges
[FOA-C-20522-D4] 15 p2349 N84-25102
Studies of the behavior of a snow cover on a mountain slope. 14: Poisson's ratio of snow, 2
15 p2353 N84-25120
Diagnostic tools for mapping California EOR processes
[DE84-006232] 15 p2359 N84-25157
Experimental pressure distributions on axisymmetric forebodies at Mach 3 and angles of attack up to 17.5 degrees
[AD-A140321] 16 p2442 N84-25668
Instrumentation techniques in sea level test facilities
16 p2453 N84-25727
Development of a new, completely implantable intraventricular pressure meter and preliminary report of its clinical experience
[NASA-TM-77121] 16 p2535 N84-26276
A device for measurement of control column forces in aircraft
[AD-A140676] 17 p2607 N84-26700
Development of an instrumented riser joint — for offshore platforms stress measurement
17 p2629 N84-26818
Development of a 2-dimensional turbulent jet under natural and excited conditions 17 p2666 N84-26997
Measurements of the low wavenumber wall pressure spectral density during transition on a flat plate
[AD-A140753] 17 p2668 N84-27013
The deep diving simulator TITAN: Physiological problems of stays in large water depths
17 p2745 N84-27427
Base pressure measurements on a projectile shape at Mach numbers from 0.91 to 1.20
[AD-A141341] 18 p2789 N84-27699
Measurement of unsteady aerodynamic pressures
[ESA-TT-834] 19 p2959 N84-28757
Comparative measurements of the unsteady pressures on three oscillating wing-tip models
[DFVLR-FB-84-07] 19 p2960 N84-28758
Physical measures of sound and noise
19 p3069 N84-29467
Theoretical and measured airflow about the Twin Otter wing
[AD-A141974] 20 p3126 N84-29655
Effect of turbulent boundary layer flow on measurement of acoustic pressure and intensity, revised
[AD-A142473] 20 p3184 N84-30229
New experimental techniques with the split Hopkinson pressure bar
[DE84-003818] 20 p3190 N84-30268
Monthly mean determination of the solar semidiurnal surface pressure oscillation at Batavia from 1866 through 1944
[PB84-184795] 20 p3244 N84-30593
Performance test results of a lithium bromide-water absorption heat pump that uses low-temperature (60 deg C(140 deg F)) waste heat
[DE84-013129] 21 p3403 N84-31586
Research study of pressure instrumentation
[NASA-CR-171143] 21 p3405 N84-31599
Lubrication of machine elements
[NASA-RP-1126] 21 p3413 N84-31640
Subsonic and transonic unsteady- and steady-pressure measurements on a rectangular supercritical wing oscillated in pitch — wind tunnel tests
[NASA-TM-85765] 22 p3530 N84-32348
Effects of system and geometrical parameters on the flow of Class-B solids in overflow standpipes
[DE84-013948] 22 p3594 N84-32762
Technique for measuring gas conversion factors
[NASA-CASE-LAR-13220-1] 22 p3598 N84-32786
Volumetric fuel quantity gauge
[NASA-CASE-LAR-13147-1] 22 p3598 N84-32787
Contribution of pressure to the moment during spin-up on a nutating liquid-filled cylinder: Ad hoc model
[AD-A143678] 23 p3747 N84-33752
Bursts and pressure fluctuations in turbulent boundary layers
[AD-A143811] 23 p3747 N84-33754
Shelf circulation studies on the northeastern United States Continental Shelf 23 p3803 N84-34111
Using an airborne CO2 CW laser for free stream airspeed and windshear measurements 24 p3850 N84-34417
Estimating target temperature in laser experiments in nitrogen at high pressures 24 p3874 N84-34548
Inventions, new technologies approved by Academy of Sciences: Invention using ultrasound
24 p3961 N84-35082

PRESSURE OSCILLATIONS

Linear theory of pressure oscillations in liquid fueled Ramjet engines
[AD-A130882] 01 p0011 N84-10071
Linear theory of pressure oscillations in liquid-fueled ramjet engines
[AD-A131610] 01 p0012 N84-10075
Nonlinear oscillations of a fluttering panel in a transonic airstream
[AD-A133918] 05 p0627 N84-14124
Mechanisms of exciting pressure oscillations in ramjet engines
[AD-A133977] 05 p0631 N84-14150
Turbulence generated pressure fluctuations in a class of interior flows 10 p1423 N84-19306
Study of stator-vane fluctuating pressures in a turbofan engine for static and flight tests
[NASA-TP-2217] 12 p1898 N84-22363
Analysis of acoustic chamber pressure oscillations in shuttle high-pressure SRB's 13 p1946 N84-22651
Definition, sources and lowest possible levels of wind-tunnel turbulence 14 p2096 N84-23576
An evaluation of factors affecting the flow quality in wind tunnels 14 p2096 N84-23577
Similarity criteria for spectra of pressure fluctuations in turbulent boundary layer at wall
21 p3480 N84-32059

PRESSURE PROBES

U PRESSURE SENSORS

PRESSURE PULSES

Influence of anisotropy and viscosity on propagation on waves in multilayer cylinders 12 p1788 N84-21660
Calculation of the statistical characteristics of surface
[NASA-TM-77462] 20 p3183 N84-30222
Relation between pressure pulse generated in optoacoustic receiver and intensity of stimulating laser pulse 21 p3478 N84-32047

PRESSURE RATIO

Static internal performance including thrust vectoring and reversing of two-dimensional convergent-divergent nozzles
[NASA-TP-2253] 09 p1251 N84-18165

PRESSURE REDUCTION

Secondary electric power generation with minimum engine bleed 01 p0010 N84-10059
Effect of periodic, tapered enlargements and contractions on turbulent heat transfer and fluid flow in a circular duct 02 p0217 N84-11422
Assessment of TRAC-PF1 and RELAP5/MOD1 codes with GE large-vessel blowdown test
[DE83-015384] 03 p0438 N84-12874
Decompression procedures for flying after diving, and diving at altitudes above sea level
[AD-A132039] 04 p0572 N84-13771
Pressure letdown method and device for coal conversion systems
[NASA-CASE-NPO-15100-1] 05 p0698 N84-14583
Decompression mechanisms and decompression schedule calculations
[AD-A137868] 11 p1695 N84-21060
Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] 13 p2019 N84-23095
New TPS calibration bench, and ejector tests — wind tunnel turbines and powered models
14 p2099 N84-23594
Modeling of zero gravity venting
[NASA-CR-173503] 14 p2145 N84-23854
Changes of phase and waves on depressurization of liquids with high specific heat
[MPIS-MITT-77] 15 p2332 N84-25003
Evaluation of a carbon dioxide scrubber in a 2-lock recompression chamber
[AD-A141052] 19 p2969 N84-28816
Effect of boattail geometry on the acoustics of parallel baffles in ducts
[NASA-TM-85981] 19 p3099 N84-29686
Growth and characterization of metal oxide whiskers for aerosol filtration
[DE84-011049] 20 p3310 N84-31021
Application of compartmentalization/air lock of simulated pressurized aircraft and tolerance of lung to rapid decompression in different laboratory animals
24 p3957 N84-35053

PRESSURE REGULATORS

EPA evaluation of the Malpassi Filter King device under Section 511 of the Motor Vehicle Information and Cost Savings Act
[PB83-214700] 01 p0163 N84-11073
Apparatus and method for jet noise suppression
[NASA-CASE-LAR-11903-2] 05 p0742 N84-14873
Laser beam duct pressure controller system
[AD-D011102] 22 p3601 N84-32811

PRESSURE SENSORS

Portable dynamic pressure generator for static and dynamic calibration of in situ pressure transducers
[NASA-TM-85687] 01 p0083 N84-10538
A technique for dynamically calibrating pressure transducers at cryogenic temperatures
[NASA-TM-85695] 02 p0222 N84-11458
Microelectronic bending and pressure sensors
[BMFT-FB-T-83-100] 02 p0225 N84-11476
Application of the small body pressure transducer
[AD-A131733] 03 p0377 N84-12454
Work done to determine the source of errors on conditioned pressure transduce signals in the JT9D-7F turbofan engines used on SAA Boeing 747 aircraft
[NIAST-82/78] 04 p0486 N84-13192
Fiber optics temperature and pressure probe
[DE84-001785] 04 p0605 N84-13990
Self-correcting electronically scanned pressure sensor
[NASA-CASE-LAR-12686-1] 05 p0683 N84-14491
Description of a calibrator for piezoelectric pressure transducers
[FOA-C-20496-D4] 05 p0686 N84-14507
Calibration of air-data systems and flow direction sensors. AGARD Flight Test Techniques Series, volume 1
[AGARD-AG-300-VOL-1] 06 p0848 N84-15530
Measurement of unsteady aerodynamic pressures
[DFVLR-MITT-83-08] 07 p0949 N84-16155
Advanced strain-gage pressure transducer
[AD-A136063] 09 p1303 N84-18518
The infinite line pressure probe
[NASA-TM-83582] 10 p1498 N84-19787
Temperature compensation and shunt calibration of semiconductor pressure transducers
[AD-P002686] 11 p1658 N84-20821

Application of the small body pressure transducer
[AD-P002687] 11 p1659 N84-20822
Ceramic-to-metal bonding for pressure transducers
[NASA-CR-173500] 13 p1963 N84-22753
Electronic scanning pressure measuring system and transducer package
[NASA-CASE-ARC-11361-1] 13 p1993 N84-22934
La Recherche Aerospatiale, Bimonthly Bulletin, no. 1983-6, 217/November-December
[ESA-TT-841] 16 p2476 N84-25870
Characterization of pressure transducers for future cryogenic wind tunnels 16 p2476 N84-25873
A probe for direct measurements of flow direction
[DFVLR-FB-83-27] 16 p2486 N84-25948
Development of a new, completely implantable intraventricular pressure meter and preliminary report of its clinical experience
[NASA-TM-77121] 16 p2535 N84-26276
Multisensor speech input
[AD-A140894] 17 p2654 N84-26974
Measurement of unsteady aerodynamic pressures
[ESA-TT-834] 19 p2959 N84-28757
SRB/FWC water impact: Flexible body loads test
[NASA-CR-171076] 19 p3020 N84-29147
Stress transducer interpretation analysis and stability data 20 p3143 N84-29957
Development of a digital air data computer using modern microprocessors, hybrid circuits, and pressure sensors with frequency output
[BMFT-FB-W-84-018] 21 p3343 N84-31208
Research pressure instrumentation for NASA Space Shuttle main engine, modification no. 5
[NASA-CR-171122] 21 p3404 N84-31594
Research pressure instrumentation for NASA Space Shuttle main engine, modification no. 5
[NASA-CR-173860] 21 p3405 N84-31596
Research study of pressure instrumentation
[NASA-CR-171143] 21 p3405 N84-31599
Research pressure instrumentation for NASA Space Shuttle main engine, modification no. 6
[NASA-CR-171126] 22 p3597 N84-32780
Research pressure instrumentation for NASA Space Shuttle main engine, modification no. 5
[NASA-CR-171125] 22 p3597 N84-32781
Research pressure instrumentation for NASA Space Shuttle main engine, modification no. 5
[NASA-CR-171128] 22 p3622 N84-32949
Research pressure instrumentation for NASA Space Shuttle main engine
[NASA-CR-173932] 23 p3702 N84-33463
Sidetone generator flowmeter
[DE84-014246] 23 p3752 N84-33783

PRESSURE SUITS
NT SPACE SUITS
Lower body graduated negative pressure system
[NASA-CR-171717] 03 p0417 N84-12725
A servo controlled rapid response anti-g valve
[AD-A134042] 05 p0715 N84-14687
Interaction of anti-G measures and chest wall mechanics in determining gas exchange
[AD-A133740] 06 p0889 N84-15775
Method and apparatus for simulating gravitational forces on a living organism
[NASA-CASE-MSC-20202-1] 07 p1050 N84-16803
USN/USAF Anti-G-Suit consolidation program
[AD-A136138] 09 p1364 N84-18908
Report on study trip to France, 28 June-9 July 1983 — protective clothing of flight crews
[FOA-C-59007-H1] 10 p1555 N84-20193
Decompression mechanisms and decompression schedule calculations
[AD-A137868] 11 p1695 N84-21060
PSC, a programmable software controller for a multiple bladder, sequentially inflatable g-suit
[AD-A138069] 12 p1868 N84-22172
Improved G-Tolerance with assisted positive pressure breathing and anti-gravity suit with ready pressure and faster filling
[FOA-A-58002-H1] 19 p3071 N84-29486

PRESSURE SWITCHES
Volumetric fuel quantity gauge
[NASA-CASE-LAR-13147-1] 22 p3598 N84-32787

PRESSURE TRANSDUCERS
U PRESSURE SENSORS

PRESSURE VESSEL DESIGN
Computer programs for seismic analysis of piping systems with special reference to the power piping code B31.1 — pressure vessels
[CRIF-MT-158] 07 p1017 N84-16601
A theory of filament wound pressure vessels
[VTH-LR-379] 10 p1503 N84-19823

PRESSURE VESSELS
Corrosion evaluation of aluminum 5083
[DE83-015786] 01 p0047 N84-10301
Zero-dimensional model of compressible gas flow in networks of pressure vessels: Program TRIC
[DE83-017121] 03 p0373 N84-12431
Analysis of hydrogen attack on pressure-vessel steels
[DE84-000061] 04 p0504 N84-13301
Pressure system recertification at NASA-Langley Research Center
[NASA-TM-85733] 04 p0543 N84-13576
Neutron measurements and radiation damage calculations for fusion materials studies
[DE83-014790] 04 p0608 N84-14011
A comparison between new and traditional ultrasonic techniques on thick welds in pressure vessels
[CISE-2074] 05 p0690 N84-14534
Reactor pressure vessel steels ASME SA 533B and SA508.C1.2: Microstructural investigations — heat treatment effects
[VTT-RR-219] 07 p0977 N84-16333
HEXANN-EVALU: A Monte Carlo program system for pressure vessel neutron irradiation calculation
[VTT-RR-210] 07 p1073 N84-16975
A nonintrusive nuclear monitor for measuring liquid contents in sealed vessels
[NASA-TM-85754] 08 p1161 N84-17560
Mechanical properties of a modified 2 1/4 Cr-1 Mo steel for pressure vessel applications
[DE84-004105] 09 p1285 N84-18394
Evaluations of the Irwin (ALPHA) sub Ic adjustment for small specimen fracture toughness data
[DE84-003292] 10 p1518 N84-19936
Numerical simulation of flame propagation in a closed vessel
[DE84-004959] 11 p1629 N84-20663
Stress intensity factors in a reinforced thick-walled cylinder
[NASA-CR-172307] 11 p1668 N84-20879
Thick-wall Kevlar 49/epoxy pressure vessels
[DE84-003102] 14 p2120 N84-23707
The neutron induced embrittlement of reactor pressure vessel steels and ferritic alloys
[AD-B080746] 15 p2295 N84-24770
The measurement of acoustic emission parameters during hydraulic loading of the Novovorenezh AES reactor vessel VVER-1000
[DRIC-T-6998] 15 p2403 N84-25421
Technological effects of pressure vessel manufacturing processes on steel properties
[EUR-7614] 17 p2622 N84-26780
Space Shuttle with rail system and aft thrust structure securing solid rocket boosters to external tank
[NASA-CASE-MFS-25853-1] 18 p2802 N84-27784
Ultrasonic techniques for the inspection of nuclear components
[BLL-RISLEY-TR-4905-(9091.9F)] 18 p2850 N84-28098
Theoretical calculations of pressure vessel failure frequencies for Sizewell B transients
[AERE-R-11196] 18 p2854 N84-28125
Analytical model of strength loss in filament wound spherical vessels
[DE84-010213] 19 p2986 N84-28923
Oxygen recombination in individual pressure vessel nickel-hydrogen batteries
[NASA-CASE-LEW-13822-1] 19 p3011 N84-29084
Fabrication of pressure vessels from fiber reinforced aluminum by electroforming for space application
[BMFT-FB-W-84-009] 19 p3032 N84-29235
Neutron embrittlement of the reactor vessel in Borssele as determined from Charpy specimens
[S/T-REPT-VOL-1-NO-4] 20 p3204 N84-30352
Slideline vertification for multilayer pressure vessel and piping analysis including tangential analysis
[DE84-004333] 21 p3423 N84-31711
Failure prediction of notched pressure vessels using the CTOD approach
[DE84-013057] 22 p3612 N84-32883
Study of size factor effect on low-cycle fatigue of aluminum alloys 23 p3706 N84-33492
Development of in situ stiffness properties for shuttle booster filament wound case
[NASA-TP-2377] 23 p3711 N84-33521
The stress analysis of a rotating cylinder experiment to determine crack growth in thick section steel
[DE84-701733] 24 p3913 N84-34778

PRESSURE WAVES
U ELASTIC WAVES

PRESSURE WELDING
NT DIFFUSION WELDING
NT EXPLOSIVE WELDING
NT ULTRASONIC WELDING
The importance of impact pressure in the development of the process of formation of bonds between metals in the solid phase
[BLL-M-35656-(5828.4)] 22 p3550 N84-32473

PRESSURIZED CABINS
Lufthansa German Airlines experience with cabin and cockpit windows of Boeing 707, 727, 737, 747, Douglas DC10 and Airbus A300
[AD-P003226] 17 p2596 N84-26639
Experimental modal analysis of a partial full-scale fuselage of turboprop aircraft — vibration modes 18 p2794 N84-27732
Application of compartmentalization/air lock of simulated pressurized aircraft and tolerance of lung to rapid decompression in different laboratory animals 24 p3957 N84-35053

PRESSURIZED WATER REACTORS
Developmental techniques for ultrasonic flaw detection and characterization in stainless steel
[DE83-014282] 01 p0092 N84-10601
Initiation and propagation of stress-corrosion cracking of Alloy 600 in high-temperature water — Inconel tubing
[DE84-000623] 07 p0975 N84-16316
Proc. of a Course of Lectures and Computer Workshops on Computer Simulation of Multi-Phase Flows
[CFD/83/4] 18 p2838 N84-28012
Robotisation of dye penetrant inspection: A study of a prototype and its development
[BLL-RISLEY-TRANS-4585-(9091.9)] 22 p3606 N84-32847

PRESSURIZING
NT FUEL TANK PRESSURIZATION
A servo controlled rapid response anti-g valve
[AD-A134042] 05 p0715 N84-14687

PRESTON TUBES
U PITOT TUBES

PRESTRAINING
U PRESTRESSING

PRESTRESSING
Prestressed pavement accelerated testing program
[PB83-225763] 01 p0059 N84-10305
Results of a study of residual stresses and fatigue crack growth in lugs with expanded holes
[NLR-MP-83024-U] 15 p2349 N84-25100
Finite element thermal-structural analysis of cable-stiffened space structues
[NASA-CR-173709] 18 p2852 N84-28108

PRETESTS
U TESTS

PRETREATMENT
NT PRESTRESSING
Investigation on the oxide layer of aluminium with respect to adhesive bonding
[MBB-BB-530-82-OE] 02 p0202 N84-11315
Characterization of aluminum oxide layers (pretreatment of plated aluminum sheet metal for adhesive bonding)
[MBB-BB-549/83-O] 07 p0977 N84-16330
Characterization of aluminum oxide layers
[MBB-BB-549-83-O] 16 p2561 N84-26433
The locus of environmental crack growth in bonded aluminium alloy joints
[AERE-R-11069] 18 p2816 N84-27880

PRETWISTING
U PRESTRESSING
U TWISTING

PREVAPORIZATION
Experimental study of the operating characteristics of premixing-prevaporizing fuel/air mixing passages
[NASA-CR-168279] 05 p0630 N84-14143

PREVENTION
NT ACCIDENT PREVENTION
NT CORROSION PREVENTION
NT FIRE PREVENTION
NT ICE PREVENTION
Prevention of acute mountain sickness by dexamethasone
[AD-A131533] 01 p0114 N84-10737

PRIMARY BATTERIES
NT ALKALINE BATTERIES
NT DRY CELLS
NT METAL AIR BATTERIES
NT NICKEL ZINC BATTERIES
NT SODIUM SULFUR BATTERIES
NT THERMAL BATTERIES
High energy density lithium primary cells using nitrogen containing polymer positives
[AD-A137377] 10 p1529 N84-20018

PRIMARY COSMIC RAYS
NT SOLAR COSMIC RAYS
Evolution of the ultra high energy cosmic ray spectron by transport equation
[DE83-013711] 03 p0476 N84-13132

PRIMATES
NT BABOONS
NT HUMAN BEINGS
NT MONKEYS
Some considerations of forms and distributions of receptive field units in early visual processing
[BAE-BT-11177] 13 p2021 N84-23103

A review and evaluation of research concerning the performance effects of nuclear radiation
[AD-P003295] 18 p2908 N84-28445
A research study of the assessment of escape impairment by irritant combustion gases in postcrash aircraft fires
[FAA-CT-84-16] 22 p3533 N84-32366
Use of primate model in weightlessness bone physiology: General problems 23 p3809 N84-34154

PRIMERS (COATINGS)
Structure and properties of polymers and organosilanes adsorbed onto oxidized aluminum and titanium
[AD-A130753] 01 p0050 N84-10321
The application of the black electrically conductive coating CHEMGLAZE L300
[ESA-PSS-01-735-ISSUE-1] 16 p2471 N84-25835
Encapsulated multifunction corrosion inhibitive primer
[AD-A144311] 24 p3889 N84-34626

PRIMERS (EXPLOSIVES)
A thermal stability test for primary explosive stab sensitizers: Study of the thermal and hydrolytic stability of 1-picryl-5-nitrotetrazole
[MRL-R-918] 16 p2473 N84-25853

PRIMITIVE EQUATIONS
Memory efficient solution of the primitive equations for numerical weather prediction on the CYBER 205
10 p1559 N84-20213
The effect of compact implicit differencing in a baroclinic primitive equations model 12 p1852 N84-22067
A Lagrangian method for a two layer shallow water model 12 p1853 N84-22068
Horizontal energy propagation in a baroclinic atmosphere with meridional and zonal structure
12 p1857 N84-22096

PRINCIPAL COMPONENTS ANALYSIS
Matrix partitioning and EOF/principal component analysis of Antarctic Sea ice brightness temperatures
[NASA-TM-83916] 17 p2721 N84-27319

PRINCIPLES
Preliminary comparisons of the information content and utility of TM versus MSS data 20 p3215 N84-30423

PRINTED CIRCUITS
NT LARGE SCALE INTEGRATION
Durable copper polyimide adhesive bonds
[AD-A130221] 01 p0049 N84-10319
Flexible composite film for printed circuit board
[NASA-TM-77109] 01 p0069 N84-10452
Insulation-resistance measurements of coated and uncoated printed wiring boards
[DE83-015457] 01 p0074 N84-10489
Global wiring strategy for IC and PC routing
[DE83-009934] 02 p0215 N84-11412
Vapor degreaser/ultrasonic cleaner solvent evaluation
[DE84-002015] 04 p0508 N84-13331
Automatic inspection for printed wiring
[AD-A133328] 06 p0854 N84-15566
Flexible substrate for printed wiring
[NASA-TM-77459] 10 p1451 N84-19478
Printed circuit board layout by microcomputer
[AD-A136427] 12 p1813 N84-21816
An approach for multilayer PCB (Printed circuit boards) design with automatic routing
[AD-A136072] 12 p1880 N84-22255
An assessment of the reliability of edge connectors — circuit boards
[ERA-82-22] 13 p1985 N84-22686
The repair and modification of printed-circuit boards and solder joints for space use
[ESA-PSS-01-726-ISSUE-1] 16 p2477 N84-25881
Microbus
[AD-A132338] 18 p2833 N84-27984
Advanced application of the printed circuit board testability design and rating system
[AD-A141147] 18 p2834 N84-27989
A wide band 44 GHz printed circuit conformal array
[AD-P003404] 19 p3014 N84-29108
Electronics Division research and development
[DE84-011024] 20 p3180 N84-30200
MIL-STD-1553B in MRASM (Medium Range Air to Surface Missile): The designer's challenge
[AD-P003541] 21 p3333 N84-31145
Broadband cavity-backed slot using printed circuit technology
[AD-P003508] 21 p3384 N84-31476
On the modeling of electromagnetically coupled microstrip antennas: The printed strip dipole
[AD-A143027] 23 p3731 N84-33651
Capacity selector valve electronics enclosure assembly controller card assembly test specifications: Revision
[AD-A144349] 24 p3898 N84-34682

PRINTERS
NT PRINTERS (DATA PROCESSING)
The DJS-054II microcomputer
[AD-A132552] 04 p0577 N84-13807
Improving the legibility of computer printouts
[BMFT-FB-DV-84-001] 16 p2542 N84-26315

PRINTERS (DATA PROCESSING)
Intelligent editor/printer enhancements
[NASA-CR-170965] 09 p1364 N84-18909
IEEE 488 bus pseudo-controller linking talker with listener
[DE84-007093] 12 p1878 N84-22238
East Europe Report: Science and technology. Czechoslovakia: Computer technology examined
[JPRS-ESA-84-022] 18 p2918 N84-28499
The design of an English word-processor for scientific and technical use in which superscripts, subscripts and Greek characters are operated in one-touch, 1
23 p3741 N84-33709
The design of an English word-processor for scientific and technical use in which superscripts, subscripts and Greek characters are operated in one-touch, 2
23 p3741 N84-33710

PRINTING
NT LITHOGRAPHY
NT PHOTOLITHOGRAPHY
Additional symbols used in double-spaced text for Wang OIS word-processor users
[DE83-014908] 01 p0162 N84-11065
User's guide to Sandia TEX
[DE83-016763] 04 p0582 N84-13840
Production of printing originals for multicolor printings using raster plotters working on an electrostatic basis
07 p1018 N84-16604
Inspections with unknown detection probabilities
[AD-A136890] 10 p1573 N84-20310
Typographical terminology
[DE84-001981] 10 p1593 N84-20441
Multicolor printing plate joining
[NASA-CASE-LEW-13598-1] 13 p1992 N84-22930
Typesetting and TROFF
[MC-IW-247/83] 17 p2772 N84-27601
An investigation of the reproduction of the general topographic map 1:200,000 in shortened scale with a digital raster data processing system 20 p3227 N84-30505
Cognitive information processing
22 p3684 N84-33360
Development of metallization process. FSA project, cell and module formation research area
[NASA-CR-173959] 23 p3789 N84-34030

PRINTOUTS
Users manual for NCS (National Communications System) facsimile test document tapes. Addendum
[AD-A133630] 05 p0684 N84-14498

PRIORITIES
Federal Aviation Administration's system for prioritizing airport grants
[PB84-181650] 20 p3133 N84-29893

PRISMS
Laser Resonator
[NASA-CASE-GSC-12565-1] 05 p0686 N84-14509
Improvements to high speed rotating prism cameras including on board timing and event pulse generators
[MRL-TN-476] 08 p1161 N84-17557

PRIVACY
Information systems, security and privacy
[RAND/P-6930] 11 p1747 N84-21402

PRIVATE AIRCRAFT
U GENERAL AVIATION AIRCRAFT

PROBABILITY
U PROBABILITY THEORY

PROBABILITY DENSITY FUNCTIONS
NT NORMAL DENSITY FUNCTIONS
NT RAYLEIGH DISTRIBUTION
NT WEIBULL DENSITY FUNCTIONS
The detection of signals in impulsive noise
[AD-A130393] 01 p0062 N84-10409
Estimating location parameters in a mixture model
03 p0392 N84-12559
PDF: A computer program for calculation of turbulent combustion utilizing a Probability Density Function (PDF) approach
[DE84-000999] 04 p0494 N84-13240
A predictive view of the detection of influential observations in Gmanova
[CSIR-TR-83] 04 p0591 N84-13904
PDF: A computer program for calculation of turbulent combustion utilizing a Probability Density Function (PDF) approach
[DE84-002525] 05 p0651 N84-14278
Fitting a multiple regression function
[AD-A133482] 06 p0905 N84-15874
Sensory redundancy management: The development of a design methodology for determining threshold values through a statistical analysis of sensor output data
[NASA-CR-173270] 07 p1059 N84-16859
Mass and momentum turbulent transport experiments with confined swirling coaxial jets
[NASA-CR-168252] 08 p1156 N84-17530
Fundamental approach to design and prediction of performance of forming tools 09 p1294 N84-18453
Polarization diversity combining for reduction of angular scintillation: Probability density function for a Two-Point-Scatterer target
[AD-A135859] 09 p1300 N84-18499
Simulations for full unit-memory and partial unit-memory convolutional codes with real-time minimal-byte-error probability decoding algorithm 10 p1474 N84-19629
Bayesian reliability test plans for one-shot devices
[AD-A138234] 12 p1896 N84-22350
Software for explicitly probabilistic mathematics
[AD-P002881] 13 p1978 N84-22842
Non-Gaussian statistical models of surface wave fields for remote sensing applications
17 p2715 N84-27284
Research in dense plasma atomic physics
[AD-A141538] 19 p3107 N84-29740
Applications of the Malliavin calculus, part 2
[REPT-83-PT-2] 21 p3476 N84-32032
An entropy maximum principle and instantaneous failure statistics
[AD-A143299] 22 p3607 N84-32851
Sensor correlation and data fusion theory
[AD-A143587] 22 p3649 N84-33133
Statistical method for the calculation of the coverage of the celestial sphere including Sun, Moon and Earth constraints (analysis document)
[MATRA-CMT-RT101/016] 23 p3839 N84-34354
Information-theoretic non-parametric unimodal density estimation
[AD-A144522] 24 p3953 N84-35035

PROBABILITY DISTRIBUTION FUNCTIONS
A note on the geometry of Kullback-Leibler information numbers
[AD-A129170] 01 p0129 N84-10840
Directionally efficient robust estimators of location via exponential embedding
[AD-A130525] 01 p0130 N84-10854
Further examination of simulated percentage points
[AD-A130338] 01 p0136 N84-10893
Some probability models related to classical occupancy with possible applications to tactical analysis
[AD-A131056] 01 p0137 N84-10898
Evidence for stacking faults in multiaxial strained alpha-brass
[DE83-014118] 01 p0155 N84-11019
Alternate implosion models for the plane parallel diode
[AD-A131275] 02 p0295 N84-11937
An empirical Bayes approach to spatial analysis
03 p0393 N84-12563
Calculation of the life of components of metallurgical equipment from the parameter of failure probability
[BLL-M-35351-(5828.4F)] 04 p0545 N84-13594
Probabilistic fatigue life predictions of structural components in high-cycle fatigue regimes
[AD-A132425] 04 p0549 N84-13615
Motion sickness incidence: Distribution of time to first emesis and comparison of some complex motion conditions
[AD-A131930] 04 p0573 N84-13772
Using simulation to estimate first passage distributions
[AD-A132328] 04 p0590 N84-13898
Analysis-plot generation code with significance levels computed using Kolmogorov-Smirnov statistics valid for both large and small samples
[DE84-001581] 04 p0592 N84-13907
Accurate efficient evaluation of cumulative or exceedance probability distributions directly from characteristic functions
[AD-A133703] 05 p0740 N84-14858
Informative quantile functions and identification of probability distribution types
[AD-A132723] 05 p0740 N84-14861
Some properties of a 5-parameter bivariate probability distribution
[NASA-TM-82550] 06 p0904 N84-15868
Calculation of cumulative distributions and detection probabilities in communications and optics
[AD-A136561] 09 p1376 N84-18989
Implementation of a reliability shorthand on the Apple 2(+) microcomputer
[AD-A136778] 10 p1557 N84-20203
On mean Kullback-Leibler's information maximum likelihood principle and uncertain nonlinear systems
[AD-A137222] 10 p1569 N84-20279
Statistical modeling of space shuttle environmental data
[NASA-CR-170940] 10 p1573 N84-20304
A method for determining if unequal shape parameters are necessary in a bivariate gamma distribution
10 p1573 N84-20306
Inspections with unknown detection probabilities
[AD-A136890] 10 p1573 N84-20310
On segmentation of digital images using spatial and contextual information via a 2-dimensional Markov model
[AD-A137942] 11 p1715 N84-21186

A probabilistic analysis of silicon cost
[NASA-CR-173461] 12 p1801 N84-21741
Contribution to the question bit error performance of CCITT study group 18
[FI-44-TBR-92] 12 p1810 N84-21799
An umful of blinding functions
12 p1870 N84-22184
Software for explicitly probabilistic mathematics
[AD-P002881] 13 p1978 N84-22842
Study of the 13 GHz signal attenuation due to tropical rains
[CRPE-NT-113] 13 p1984 N84-22879
Fast evaluation of the numerical error rate in the presence of intersymbolic interference
[CRPE-NT-127] 13 p2029 N84-23158
On obtaining physical meaning from the parameters in the Weibull distribution
[AD-A138574] 13 p2036 N84-23206
Updating LU factorizations for computing stationary distributions
[DE84-007566] 15 p2400 N84-25402
Informative stopping rules
[AD-A140599] 17 p2758 N84-27507
Comment on corrected diffusion approximations in certain random walk problems'
[AD-A140923] 17 p2759 N84-27519
Approximating the level probabilities in order restricted inference: The simple tree ordering
[AD-A140684] 17 p2760 N84-27525
On the representation of probability distributions as the convolution of symmetric and completely asymmetric parts
[AD-A140843] 17 p2760 N84-27528
Estimating reliability of an electrical insulating system
[DE84-010633] 18 p2834 N84-27993
Approximating the probabilities of detecting and of hitting targets and the probability distribution of the number of trials along the visible portions of curves in the plane subject to a Poisson shadowing process
[AD-A141327] 18 p2927 N84-28563
Regression methods for binomial and Poisson distributed data
[DE84-009714] 18 p2927 N84-28564
Frequency domain non-linear signal processing apparatus and method for discriminationd against non-Gaussian interference
[AD-D011068] 19 p3017 N84-29126
The approximate solution of a simple constrained search path moving target problem using moving horizon policies
[AD-A142164] 19 p3089 N84-29612
Estimation of the generalized extreme-value distribution by the method of probability weighted moments
[AD-A141696] 19 p3093 N84-29642
A uniform bound for the tail probability of Kolmogorov-Smirnov statistics
[AD-A141761] 19 p3093 N84-29643
Interval estimates for posterior probabilities in a multivariate normal classification model
[MC-SW-96/83] 19 p3094 N84-29650
Backward limits of non-time-homogeneous regenerative processes
[CTH-MATH-1984-09] 19 p3095 N84-29654
A method for the combination of stochastic time varying load effects 21 p3417 N84-31669

PROBABILITY THEORY

Comments on Bing's paper On a Posteriori Probability, and reply to Professor L. Lorenz
[CSIR-TRANS-1658] 01 p0128 N84-10838
A numerical analyst's Jordan canonical form
[AD-A130775] 01 p0133 N84-10873
Occupancy models, Bell-type polynomials and numbers and applications to probability
[AD-A130453] 01 p0136 N84-10892
Weighing evidence: The design and comparison of probability
[AD-A131475] 01 p0137 N84-10896
Some probability models related to classical occupacy with possible applications to tactical analysis
[AD-A131056] 01 p0137 N84-10898
On the probability of undetected error for the maximum distance separable codes
[NASA-CR-170604] 02 p0279 N84-11829
Probability expressions, with applications to fault testing in digital networks
[AD-A131367] 02 p0284 N84-11860
Simple probability functions with finite distribution limits: The radical functions
[AD-A131576] 02 p0285 N84-11865
Improving NDE (Non-destructive evaluation) capability through multiple inspection with application to gas turbine engine disks
[AD-A131762] 03 p0385 N84-12509
Analysis of subpixel registration accuracy
03 p0394 N84-12570
Asymptotic maximal deviation of m-smoothers
[AD-A131906] 03 p0427 N84-12799
An alternative to the Monte Carlo estimation of network reliability
[AD-A131849] 03 p0427 N84-12800
Kingman's subadditive ergodic theorem
[AD-A131796] 03 p0427 N84-12801
Weighted nonparametric tail estimation procedures
[DE83-017870] 03 p0428 N84-12804
New results for transition probabilities in two-level systems: The large detuning regime
[AD-A131783] 03 p0433 N84-12835
External versus intuitive reasoning: The conjunction fallacy in probability judgment
[AD-A131801] 04 p0574 N84-13778
The linear hierarchical model and its application in the econometric analysis
[CSIR-TWISK-274] 04 p0587 N84-13875
PLY: A system of plausibility inference with a probabilistic basis
[AD-A132537] 04 p0588 N84-13889
Analysis-plot generation code with significance levels computed using Kolmogorov-Smirnov statistics valid for both large and small samples
[DE84-001581] 04 p0592 N84-13907
An estimation problem relating to subset selection for normal populations
[AD-A133387] 06 p0904 N84-15870
Ambiguity and uncertainty in probabilistic inference
[AD-A133418] 06 p0905 N84-15872
A theory of diagnostic inference: Judging causality
[AD-A133172] 07 p1049 N84-16796
Identifying different item response curves
[AD-A133259] 07 p1049 N84-16798
Estimation of posterior probabilities using multivariate smoothing splines and generalized cross-validation
[AD-A134518] 07 p1062 N84-16884
The queue G/G/1: Finite moments of the cycle variables and uniform rates of convergence
[CTH-MATH-1983-18] 07 p1068 N84-16933
Program for the analysis of fault trees
[AD-A134746] 08 p1213 N84-17910
Markov decision processes with continuous time parameter
[MATH-CENTRE-TRACTS-164]
08 p1217 N84-17940
Noise
[AD-A135066] 08 p1222 N84-17983
EMC (electromagnetic compatibility) modeling and analysis: A probabilistic approach
[AD-A135664] 09 p1301 N84-18505
Proceedings, Seminar on Probabilistic Methods in Geotechnical Engineering
[AD-A136497] 09 p1345 N84-18786
Tropical cyclone wind probability forecasting for the southern hemisphere (WINDPSH)
[AD-A136146] 09 p1350 N84-18817
Corrected diffusion approximations and their applications
[AD-A136384] 09 p1374 N84-18974
Comparing probability forecasters: Basic binary concepts and multivariate extensions
[AD-A135966] 09 p1377 N84-18998
Rounding errors in some recursive methods used in computational probability
[PB84-124734] 09 p1379 N84-19013
Comment on graphical methods for assessing logistic regression models by Landwehr, Pregibon and Shoemaker
[AD-A135664] 09 p1383 N84-19031
Some alternatives to Bayes' rule
[AD-A135944] 09 p1383 N84-19033
Correction of data-quality induced bias
09 p1409 N84-19209
A model for evaluation of satellite population management alternatives
[AD-A136886] 10 p1436 N84-19386
More optimal searches
[AD-A136934] 10 p1436 N84-19387
Creep-rupture reliability analysis
[NASA-CR-3790] 10 p1516 N84-19925
Learning in a probabilistic environment: A new approach, and some preliminary findings
[AD-A137031] 10 p1551 N84-20162
Computing confidences in tactical rule-based systems by using Dempster-Shafer theory
[AD-A137274] 10 p1562 N84-20237
Description and analysis of PACAM 5 (Piloted Air Combat Analysis Model) as a tactical decision aid with a user's guide for operation at NPS
[AD-A136793] 10 p1574 N84-20313
Development of probabilistic rigid pavement design methodologies for military airfields
[AD-A138212] 12 p1804 N84-21760
Clutter cancellation techniques for use in a space-based radar system
[AD-A138467] 12 p1808 N84-21784
On the stability of signal detection
[AD-A138525] 12 p1808 N84-21785
The probabilistic analysis on the influence of roughness to depth and velocity in open channels
[PREPRINT-792] 12 p1817 N84-21847
An umful of blinding functions
12 p1870 N84-22184
Some considerations in estimating data transformations
[AD-A137960] 12 p1893 N84-22329
A unified approach to modeling and combining of evidence through random set theory
[AD-P002880] 13 p1978 N84-22841
The effects of a spatial information format on decision making performance in a C3 (Command, Control, and Communications) probabilistic information integration task
[AD-P002887] 13 p1979 N84-22848
Distributed estimation systems
[AD-P002898] 13 p1980 N84-22857
On obtaining physical meaning from the parameters in the Weibull distribution
[AD-A138574] 13 p2036 N84-23206
Public response to hurricane probability forecasts
[PB84-158658] 14 p2162 N84-24077
Indicators of hazard for polycyclic organic matter
[PB84-167493] 15 p2288 N84-24730
Survival probability of non-linear oscillators subjected to broad-band random disturbances
15 p2312 N84-24875
Performance analysis of the word synchronization properties of the outer code in a TDRSS decoder
[NASA-CR-173551] 15 p2319 N84-24921
A generalized class of certainty and information measures
[NLR-MP-82038-U] 15 p2397 N84-25379
On the optimality of some subset selection procedures
[AD-A140180] 16 p2549 N84-26382
Evaluating the response of complex systems to environmental threats: The Sigma 2 method
[UCRL-53399] 16 p2551 N84-26386
Bayes-p* subset selection procedures for the best population
[AD-A140179] 16 p2551 N84-26387
Probabilistic characteristics of perturbation torques in gyroscopes with electrostatic suspension
17 p2643 N84-26913
Uniqueness of inverse problem in gravimetry for homogeneous polyhedrons 17 p2700 N84-27201
HP-41C programs and instructions for probability and statistics
[AD-A140573] 17 p2752 N84-27468
A study of elimination conditions for the permutation flow-shop sequencing problem
[CWI-OS-R8403] 17 p2754 N84-27483
On the representation of probability distributions as the convolution of symmetric and completely asymmetric parts
[AD-A140843] 17 p2760 N84-27528
Continuous singular probability measures that are almost lattice
[CTH-MATH-1983-26] 17 p2760 N84-27529
On coupling of renewal processes with use of failure rates
[CTH-MATH-1983-27] 17 p2760 N84-27530
Invariance properties of the conditional independence relation
[MC-BW-193/83] 17 p2761 N84-27533
New directions in scheduling theory
[CWI-OS-R8401] 17 p2761 N84-27535
Joint probability of selected cloud and visibility thresholds around Frankfurt, Germany
[AD-A141342] 18 p2891 N84-28348
Approximating the probabilities of detecting and of hitting targets and the probability distribution of the number of trials along the visible portions of curves in the plane subject to a Poisson shadowing process
[AD-A141327] 18 p2927 N84-28563
The effect of component redundancy upon aircraft combat survivability
[AD-A141815] 19 p2964 N84-28784
Tropical cyclone sea-state probability model development and application
[AD-A142212] 19 p3059 N84-29407
A limit theorem on characteristic functions via an extremal principle
[AD-A141390] 19 p3083 N84-29567
Estimation of the generalized extreme-value distribution by the method of probability weighted moments
[AD-A141696] 19 p3093 N84-29642
Random capacities and their distributions
[CTH-MATH-1984-03] 19 p3094 N84-29649

Interval estimates for posterior probabilities in a multivariate normal classification model
[MC-SW-96/83] 19 p3094 N84-29650
Flaw detection reliability criteria. Volume 1: Methods and results
[AD-A142001] 20 p3199 N84-30320
Sunlight probability data for select cities in the US
[DE84-000006] 20 p3247 N84-30605
National Weather Service hurricane probability program
[PB84-182757] 20 p3248 N84-30619
Use of theory of systems with dispersed parameters to formulate deformation resistance equations in pressure working of metals: Communication 2
[BLL-M-35595-(5828.4)] 21 p3363 N84-31337
How many specimens? An aid in the design of fatigue test programs
[AD-A142610] 21 p3422 N84-31704
A fast method for computer image enhancement
[INPE-3170-PRE/540] 21 p3465 N84-31965
Statistical inference for reliability from stress strength relationships: The normal case
[AD-A142693] 21 p3472 N84-32005
On point processes --- probability theory
[MATH-CENTRE-TRACTS-165] 21 p3475 N84-32025
Applications of the Malliavin calculus, part 2
[REPT-83-PT-2] 21 p3476 N84-32032
Probabilistic models of the stress-rupture of composite materials: Summary
[DE84-013477] 22 p3545 N84-32441
Threshold signals for detector having stabilization of false alarm probability 22 p3567 N84-32590
A probabilistic model for predicting the duration of levels of electromagnetic transmission in falling snow: Environmental research papers
[AD-A143318] 22 p3577 N84-32655
Using statistical tools
[RAND/N-2121-PSSP] 22 p3647 N84-33124
Variability orderings related to coverage problems on the circle
[AD-A143364] 22 p3648 N84-33130
Investigation of an empirical probability measure based test for multivariate normality
[DE84-012626] 22 p3649 N84-33135
SPIRIT: An evolutionally designed intelligent tutoring system
[AD-A144638] 24 p3949 N84-35003

PROBES
Trends in exotic-atom research
[DE84-001679] 04 p0602 N84-13974
Simulator-probe for diagnostic testing of short-wave radio channels 22 p3567 N84-32595

PROBLEM SOLVING
NT ASYMPTOTIC METHODS
NT ITERATIVE SOLUTION
NT THEOREM PROVING
Spectral methods for time dependent partial differential equations
[NASA-CR-172241] 01 p0128 N84-10837
Smooth solutions to a quasi-linear system of diffusion equations for a certain population model
[AD-A129180] 01 p0128 N84-10839
A numerical method in solving a coupled thermoelasticity equation and some results
[AD-A130183] 01 p0129 N84-10843
Asymptotic behaviors of the solution of an elliptic equation with penalty terms
[AD-A130473] 01 p0131 N84-10858
Incomplete-Cholesky factorization by a matrix-partition algorithm
[DE83-013044] 01 p0134 N84-10879
Computational methods for static and dynamic systems and engineering applications
[PB83-227314] 01 p0135 N84-10884
Modified quasilinearization algorithm for optimal control problems with nondifferential constraints and general boundary conditions. Part 1: Theory
[PB83-226944] 01 p0135 N84-10885
Transient response of superconducting microbridges to supercritical currents
[AD-A130913] 01 p0153 N84-11007
Cognitive processes and knowledge structures used in solving physics problems
[PB83-225177] 01 p0157 N84-11033
Improved management of scientific progress in Armenia urged 01 p0158 N84-11041
CSRL (Conceptual Structures Representation Language): A language for expert systems diagonsis
[AD-A131403] 02 p0272 N84-11782
A nested-decomposition approach for solving staircase linear programs
[DE83-3013560] 02 p0274 N84-11792
Discourse and problem solving
[AD-A131003] 02 p0277 N84-11818
Embedding methods for the steady Euler equations
[NASA-TM-83481] 02 p0279 N84-11831
Research in numerical linear algebra and numerical methods for large-scale least squares and other problems
[AD-A131400] 02 p0280 N84-11838
Solutions of a 4th order differential equation describing mode conversion in a magnetized plasma
[AD-A131600] 02 p0281 N84-11840
Moving finite elements in 2-D
[AD-A131279] 02 p0281 N84-11842
Quasi-Newton methods using multiple secant equations
[AD-A131444] 02 p0282 N84-11847
Solution of sparse underdetermined systems of linear equations
[DE83-016460] 02 p0283 N84-11853
A new algorithm for constrained nonlinear least-squares problems, part 1
[NASA-CR-174480] 02 p0283 N84-11855
Analysis of finite difference discretizations of Navier-Stokes problems on mapped domains 02 p0283 N84-11858
Applied extreme-value statistics
[DE83-013347] 02 p0285 N84-11870
User's guide for SOL/NPSOL: A FORTRAN package for nonlinear programming
[DE83-016903] 03 p0421 N84-12751
User's guide for SOL/QPSOL: A FORTRAN package for quadratic programming
[DE83-016990] 03 p0421 N84-12752
Design, development and use of the finite element machine
[NASA-CR-172250] 03 p0424 N84-12777
Multidimensional explicit difference schemes for hyperbolic conservation laws
[NASA-CR-172254] 03 p0425 N84-12778
Disjunctive programming and a hierarchy of relaxations for discrete optimization problems
[AD-A132004] 03 p0425 N84-12784
Pyramid methods in image analysis 03 p0426 N84-12796
Dynasty 2: A nonlinear implicit code for relativistic electron beam tracking studies
[AD-A131592] 03 p0432 N84-12829
Information resources management plan
[AD-A131964] 03 p0459 N84-13023
Current state of titanium coating methods
[BLL-OA-TRANS-3067-(6196.3)] 04 p0498 N84-13268
Impossibility of distributed consensus with one faulty process
[AD-A132503] 04 p0580 N84-13823
On interpolation methods for boundary value ordinary differential equations 04 p0586 N84-13869
Solution of the 2-point boundary value problems of optimal spacecraft rotational maneuvers 04 p0586 N84-13870
Splines and the Galerkin method for solving the integral equations of scattering theory
[CSIR-TWISK-267] 04 p0586 N84-13873
Study of the optimal control problem solving in the Bolza form by the finite element method
[INPE-2750-PRE/326] 04 p0588 N84-13884
Remarks on the Kuramoto-Sivashinsky equation
[DE84-001018] 04 p0590 N84-13901
A solution technique for complex matrix games
[ARL-SYS-NOTE-83] 04 p0592 N84-13910
On the interactions of incentive and information structures
[DE83-012084] 04 p0616 N84-14065
Generation of feasible descent directions in continuous time linear programming
[DE84-002506] 05 p0717 N84-14694
Learning to program in LISP
[AD-A132611] 05 p0728 N84-14781
An overview of artificial intelligence and robotics. Volume 1: Artificial intelligence. Part C: Basic AI topics
[NASA-TM-85839] 05 p0732 N84-14805
Untutored concept learning
[AD-A133766] 05 p0732 N84-14808
Hypothesizing channels through free-space in solving the findpath problem
[AD-A133632] 05 p0732 N84-14810
More results on the convergence of iterative methods for the symmetric linear complementarity problem
[AD-A132863] 05 p0738 N84-14846
Integrated circuit failure mechanism detected by IMMA 06 p0815 N84-15305
Asymptotic analysis of numerical wave propagation in finite difference equations
[NASA-CR-175323] 06 p0822 N84-15360
Exploiting temporal knowledge to organize constraints
[AD-A133417] 06 p0899 N84-15838
An investigation of the indirect boundary element method in One- and two-dimensional elastostatics
[AD-A133142] 06 p0900 N84-15843
An investigation of the use of iterative linear equation solvers in codes for large stiff systems of ODE's
[AD-A133189] 06 p0901 N84-15845
A new numerical method for the transient gas-dyanmic code EVENT
[LA-9594-MS] 06 p0920 N84-15977
BERTHA: A versatile transmission line and circuit code
[DE84-002984] 07 p0998 N84-16474
Solvability of the leakage problem for the hydrodynamic Euler equations in Sobolev spaces 07 p1000 N84-16485
Variational methods in elasticity theory 07 p1030 N84-16681
Age, altitude, and workload effects on complex performance
[AD-A133594] 07 p1047 N84-16793
Maze-solving as a performance measurement tool for human operations under time-stress
[AD-A133394] 07 p1050 N84-16799
Multilevel semantic analysis and problem-solving in the flight-domain
[NASA-CR-173177] 07 p1050 N84-16804
Three-dimensional unsteady Euler equation solutions using flux vector splitting
[NASA-CR-173254] 07 p1058 N84-16857
Application of the method of lines for solutions of the Navier-Stokes equations using a nonuniform grid distribution
[NASA-CR-173180] 07 p1060 N84-16870
Domain splitting for an explicit hyperbolic solver
[C/R/469/83] 07 p1060 N84-16871
A variational approach to superlinear elliptic problems
[AD-A134541] 07 p1063 N84-16892
Hypothesis identification in the case of the missing cell
[AD-A134553] 07 p1063 N84-16895
Sufficiency of exact penalty minimization
[AD-A134559] 07 p1063 N84-16898
A comparative survey of numerical methods for the linear generalized Abel integral equation
[MC-NW-155/83] 07 p1065 N84-16915
Solving uninterpreted equations with context free expression grammars
[AD-A133613] 07 p1085 N84-17055
Sources generating and reporting numerical and factual data 07 p1086 N84-17062
The evaluation/validation process: Data from disciplines resting on good theoretical foundations 07 p1086 N84-17065
Problem solving abilities
[AD-A134717] 08 p1202 N84-17840
Reasoning in multiple belief spaces 08 p1210 N84-17894
Proceedings of the Conference on Joint Problem Solving and Microcomputers
[AD-A135001] 08 p1211 N84-17901
A computer program for solving the parabolic equation using an implicit finite-difference solution method and incorporating exact interface conditions
[AD-A135325] 08 p1212 N84-17903
Temporal finite elements based on a minimum principle for initial value problems 08 p1216 N84-17935
Search algorithms and their implementation
[AD-A135154] 08 p1219 N84-17953
International Conference on Stiff Computation
[AD-A135265] 08 p1219 N84-17956
Numerical solution of singular integral equations arising in mixed boundary value problems of elasticity
[AD-A134673] 08 p1220 N84-17965
Numerical methods for singular perturbation problems
[AD-A134696] 08 p1220 N84-17966
Automatic adaptive grid refinement for the Euler equations
[NASA-CR-173161] 08 p1222 N84-17977
Algorithm for the detection and integration of highly oscillatory ordinary differential equations using a generalized unified modifiec divided difference representation
[DE84-003585] 08 p1222 N84-17978
The discrete convolution method for solving some large moment matrix equations
[AD-A135420] 08 p1226 N84-18007
The effect of locus of control on performance with man-machine dialogues 08 p1239 N84-18096
The program complexity of searching a table
[AD-A135299] 08 p1240 N84-18104
The numerical solution of incompressible Navier-Stokes equations
[AD-A136158] 09 p1316 N84-18597
The NASTRAN theoretical manual
[NASA-SP-221(06)] 09 p1329 N84-18677

Strategies of cooperation in distributed problem solving
[AD-A136527] 09 p1371 N84-18955
Applications of natural constraints in critical point theory to periodic solutions of natural Hamiltonian systems
[AD-A136348] 09 p1373 N84-18968
Finite difference methods for the incompressible Navier-Stokes equations: A survey
[AD-A136353] 09 p1374 N84-18969
Linear complementarity problems solvable by an efficient polynomially bounded pivoting algorithm
[AD-A136405] 09 p1374 N84-18977
Computational solution of random equations
[AD-A136418] 09 p1375 N84-18978
Feedback and adaptive finite element solution of one-dimensional boundary value problems
[AD-A136018] 09 p1378 N84-19000
A framework for solving VLSI (Very Large Scale Integration) graph layout problems
[AD-A136143] 09 p1378 N84-19003
Problems solved and unsolved concerning linear and nonlinear partial differential equations
[DE84-004990] 09 p1379 N84-19008
Eigenvalue methods for vibration analysis 2
10 p1507 N84-19865
Mental representation of circuit diagrams: Individual differences in procedural knowledge
[AD-A136876] 10 p1550 N84-20159
Effort and accuracy in choice
[AD-A136881] 10 p1550 N84-20161
Parallel logic programming and ZMOB and parallel systems software and hardware
[AD-A137068] 10 p1564 N84-20246
Approach to programming multiprocessing algorithms on the Denelcor HEP
[DE84-005440] 10 p1565 N84-20251
Time map maintenance
[AD-A137236] 10 p1567 N84-20268
On the facial structure of scheduling polyhedra
[AD-A136963] 10 p1591 N84-20427
Generalized Dinkelbach-type algorithms
[CSIR-TWISK-295] 11 p1712 N84-21161
Research in algebraic manipulation
[AD-A137776] 11 p1714 N84-21174
Simple computable bounds for solutions of linear complementarity problems and linear programs
[AD-A137949] 11 p1715 N84-21188
Generalization of the numerical Schwarz algorithm
[DE84-003735] 11 p1716 N84-21191
Moving finite elements in 1-D: A review of the method and the coding experience
[DE84-004821] 11 p1716 N84-21192
Interpolation for Runge-Kutta methods
[DE84-006455] 11 p1716 N84-21193
Systems of nonlinear algebraic equations arising in simulation of semiconductors devices
[DE84-006490] 11 p1716 N84-21195
EISPACK: A package for solving matrix eigenvalue problems
[DE84-005408] 11 p1717 N84-21197
Differential games, optimal control and directional derivatives of viscosity solutions of Bellman's and Isaacs' equations
[AD-A137939] 11 p1718 N84-21209
Distributed knowledge base systems for diagnosis and information retrieval
[AD-A137828] 11 p1750 N84-21421
An optimal control approach to pilot/vehicle analysis and Neal-Smith criteria
[NASA-CR-170416] 12 p1771 N84-21551
The NASTRAN user's manual
[NASA-SP-222(06)] 12 p1825 N84-21899
Research and theory on predecision processes
[AD-A137962] 12 p1866 N84-22163
Cumulative reports and publications through 31 December 1983
[NASA-CR-172326] 12 p1878 N84-22226
Developments in the theory of nonlinear first-order partial differential equations
[AD-A138020] 12 p1893 N84-22332
Integral green's function solutions to differential equations
[AD-A138077] 12 p1894 N84-22335
Step sizes used by one-step codes for ODEs
[DE84-006317] 12 p1895 N84-22344
Step size control in ODE solvers
[DE84-006391] 12 p1895 N84-22345
Diophantine inferences from statistical aggregates on few valued attributes
[AD-A138365] 12 p1919 N84-22501
Fluid-dynamically coupled solid propellant combustion instability - cold flow simulation
13 p1945 N84-22644
Generation of vehicle wobbling by the unsteady flow field in a spinning solid propellant rocket motor
13 p1945 N84-22648
Direct measurement of high frequency solid propellant response functions 13 p1945 N84-22649
Thermoelastic stresses in metal with temperature: Dependent properties in radiant heating
[BLL-M-35526-(5828.4)] 13 p1960 N84-22733
Hypersonic flow around flat body in case of intense radiative heat exchange 13 p1972 N84-22795
Transonic flow around protruding corner with free streamline 13 p1972 N84-22796
Plane motion of solid body on rough surface of annular bearing rotating about its axis perpendicular to plane of motion 13 p1973 N84-22801
System for torque control of unbalanced rotor during passage through resonance 13 p1973 N84-22802
Solving statics problems of thick-walled cylindrical shells with loose contact between layers
13 p1973 N84-22805
Research on cognitive collaboration between persons and computers
[AD-P002892] 13 p1980 N84-22853
Dynamic, hierarchical decision problems
[AD-P002912] 13 p1981 N84-22863
Linear dynamics of cables and chains
13 p2000 N84-22978
Ability and expertise in act generation
[AD-A137973] 13 p2022 N84-23110
Problem analysis and definition in act generation
[AD-A137978] 13 p2022 N84-23111
Transformations of software design and code may lead to reduced errors 13 p2027 N84-23145
Prerequisites for scientific-technical progress enumerated 13 p2065 N84-23395
Bubbles rising in a tube and jets falling from a nozzle
[AD-A139266] 14 p2145 N84-23858
Analytical results for postbuckling behavior of plates in compression and shear
[NASA-TM-85766] 14 p2157 N84-23922
Performance in dual tasks
[AD-A138603] 14 p2186 N84-24096
A Unified Model of Attention and Problem Solving
[AD-A138787] 14 p2186 N84-24097
Problem solving and reasoning
[AD-A138889] 14 p2186 N84-24099
USSR report: Machine tools and metalworking equipment
[JPRS-UMM-84-009] 14 p2188 N84-24108
Resistance to robots in Soviet metallurgical plants noted 14 p2188 N84-24109
Belorussia's industry robotization program discussed
14 p2188 N84-24111
Control algorithms of Soviet HCS Rusalka for robots analyzed 14 p2188 N84-24113
Solving the Poisson equation on the FPS-164 (Floating Point System-164)
[AD-A139307] 14 p2211 N84-24278
Remarks on the Ambrosetti-Prodi problem
[AD-A139237] 14 p2212 N84-24282
Exact boundary conditions at an artificial boundary for partial differential equations in cylinders
[AD-A139310] 14 p2213 N84-24292
On the almost periodicity of the solutions of an integrodifferential equation
[AD-A139312] 14 p2213 N84-24293
On small period, large amplitude normal modes of natural Hamiltonian systems
[AD-A139314] 14 p2213 N84-24294
Vector optimization techniques
[AD-A139497] 14 p2219 N84-24317
Automating the transformational development of software, volume 1
[AD-A139660] 15 p2392 N84-25355
A study of the different solution methods for nonlinear problems
[ISD-304] 15 p2396 N84-25376
MOLAG: A method of lines adaptive grid interface for nonlinear partial differential equations
[DE84-009161] 15 p2399 N84-25396
Conversational eigenanalysis program for solving differential equations
[DE84-007560] 15 p2399 N84-25397
Problems in the spectroscopy of cool carbon stars
15 p2422 N84-25549
On a series of problems with machines: Costs of modernization and storage in case of demand
[TUM-M8312] 16 p2475 N84-25863
Canonical solutions for unsteady flow fields
[NASA-TM-85812] 16 p2486 N84-25947
Contribution to the study of a numerical implicit method for solving the Euler equations
[ONERA-NT-1983-8] 16 p2488 N84-25958
Sheath shapes: A 3-D generalization of the Child-Langmuir sheath model for large high-voltage space structures in dense plasmas
[AD-P002124] 16 p2525 N84-26210
Internal iteration methods 16 p2541 N84-26308
Guide to available mathematical software
[PB84-171305] 16 p2545 N84-26337
Discourse structures for text generation
[AD-A140278] 16 p2546 N84-26342
Modification of the eta-invariant code for application of a modular grid network
[AD-A135817] 16 p2547 N84-26347
Analytical solution of 1st and 2nd ordinary differential equations using the REDUCE 2 algebra manipulation program
[NASA-TM-77446] 16 p2548 N84-26351
Quantum solutions and strange solutions in many-body problems
[AD-A140436] 16 p2565 N84-26459
A solution procedure for three-dimensional incompressible Navier-Stokes equation and its application
[NASA-TM-85978] 17 p2600 N84-26666
Method for solving variation problems of plasticity theory — metal working
[BLL-M-35555-(5828.4)] 17 p2676 N84-27047
Economical difference methods for solving direct problems in gravimetric and magnetic prospecting
17 p2702 N84-27209
Uniqueness in plane inverse problems in gravimetry and magnetometry 17 p2705 N84-27226
A model of human problem solving in dynamic environments
[AD-A140862] 17 p2748 N84-27446
Ill-posed problems in optimal control systems and a method to solve them 17 p2756 N84-27497
Is artificial intelligence possible?
[INPE-3007-PRE/453] 17 p2757 N84-27499
Study of the numerical solution of some diffusion problems using the finite element method
[INPE-3003-TDL/154] 17 p2757 N84-27504
Stable explicit schemes for equations of the Schroedinger type
[AD-A140779] 17 p2758 N84-27513
On the Kakeya problem
[CTH-MATH-1983-23] 17 p2759 N84-27520
Absorptive surfaces of extended reaction angle of incidence considerations 17 p2763 N84-27547
An estimation problem in faulty inspection sampling, revised
[AD-A141247] 18 p2851 N84-28103
Psychology and study of human factor in management
18 p2898 N84-28382
Situational interaction: A peer counseling approach to AWOL (unauthorized absences from duty) reduction
[AD-P003243] 18 p2903 N84-28410
Construction of finite difference schemes having special properties for ordinary and partial differential equations
[NASA-CR-173722] 18 p2924 N84-28544
The postprocessing technique in the finite element method the theory and experience
[AD-A140953] 18 p2925 N84-28551
Finite element methods for the solution of problems with rough input data
[AD-A140955] 18 p2925 N84-28552
Finite element solution of a self-adjoint transport equation in one dimension
[AD-A141225] 18 p2926 N84-28557
Numerical methods for nonlinear elliptic eigenvalue problems
[DE84-010408] 18 p2926 N84-28558
Feoktistov recounts planning for Gagarin spaceflight
19 p2971 N84-28836
Development of space holography
19 p2972 N84-28839
Behavioral and biological effects of changes in group size and membership
[NASA-CR-173801] 19 p3067 N84-29457
Symbolic knowledge processing for the acquisition of expert behavior: A study in medicine
[AD-A141835] 19 p3068 N84-29460
Pilot interaction with automated airborne decision making systems
[NASA-CR-173782] 19 p3068 N84-29464
Asymptotic solutions of dispersive quasi-linear equations
[ISSN-0208-5658] 19 p3081 N84-29552
Comparison of the Liapunov Method and the method of total disparities using the example of selected differential equations
[ISSN-0208-5658] 19 p3081 N84-29553
Finding the roots of the transcendental equations in the problem of determining the thermal conductivity of a plate under heterogeneous boundary conditions
[BLL-M-35802-(5828.4)] 19 p3082 N84-29554
Spectral methods for exterior elliptic problems
[NASA-CR-172360] 19 p3082 N84-29560
Nonlinear partial differential equations and related problems of Pade approximations
[AD-A141519] 19 p3085 N84-29578

L infinity stability of an exponentially decreasing solution of the problem Delta u + f(x,u) = o in r(n)
[AD-A141601] 19 p3085 N84-29582
Simple bounds for solutions of monotone complementarity problems and convex programs
[AD-A141699] 19 p3087 N84-29594
Pareto-optimality, efficiency analysis and empirical production functions
[AD-A141768] 19 p3088 N84-29601
Local uniform mesh refinement with moving grids
[AD-A141782] 19 p3088 N84-29602
The approximate solution of a simple constrained search path moving target problem using moving horizon policies
[AD-A142164] 19 p3089 N84-29612
Conduct of the International Multigrid Conference
[NASA-CR-173823] 19 p3090 N84-29618
Acoustic design criteria and validation
19 p3096 N84-29663
Shuttle orbiter main propulsion system hardware development and certification for flight
20 p3135 N84-29907
Ada (trademark) tasking in numerical analysis
[AD-P003429] 20 p3271 N84-30761
Ada (Registered trademark) training curriculum. Software engineering for managers. M101: Teachers exercise guide
[AD-A142429] 20 p3272 N84-30767
Two algorithms for the contact problem in elastostatics, 1982
[PB83-147678] 20 p3275 N84-30793
Artificial intelligence and robotics
[AD-A142488] 20 p3278 N84-30810
Automated planning for intelligent machines in energy-related applications
[DE84-011666] 20 p3279 N84-30815
Study of nonlinear singular systems
[AD-A142348] 20 p3280 N84-30820
New algorithms for near neighbor searching
[AD-A142404] 20 p3280 N84-30824
Moving finite elements in 2-D. Technical report: Year 3
[DE84-008551] 20 p3282 N84-30840
Appropriate Technology Small Grants Program evaluation, volume 2
[DE84-010674] 20 p3313 N84-31039
Shock-free transonic airfoil design by a hodograph method
[AD-A142752] 21 p3325 N84-31098
Distributed problem solving for air fleet control: Framework and implementations
[AD-A143168] 21 p3327 N84-31108
Solution of some additional electromagnetic problems by the discrete convolution method
[AD-A143056] 21 p3387 N84-31493
A space-marching method for the Navier-Stokes equations for internal flows 21 p3397 N84-31550
Numerical solution of the Euler and the Navier-Stokes equations for a compressible flow problem
21 p3397 N84-31551
Global solutions for the one-dimensional equations of a viscous reactive gas
[AD-A142931] 21 p3400 N84-31569
Applying artificial intelligence to large networks
21 p3426 N84-31743
Continuation of research in computer simulation of integrated circuits
[AD-A143005] 21 p3465 N84-31970
Abstraction, specification and implementation techniques with an application to garbage collection — data processing
[MATH-CENTRE-TRACTS-166]
21 p3467 N84-31980
Smoothing on the frequency domain
[INPE-3182-PRE/547] 21 p3471 N84-31997
Globally convergent procedures for solving nonlinear minimization problems
[AD-A142905] 21 p3473 N84-32009
Stable method for solving linear programming problem with approximate data 21 p3484 N84-32077
Two-phase methods of solving canonical problem of linear programming 21 p3484 N84-32078
Numerical calculations in quantum field theories
[DE84-010802] 21 p3507 N84-32217
Three-dimensional, time-dependent, compressible, turbulent, integral boundary layer equations in general curvilinear coordinates and their numerical solutions
22 p3529 N84-32348
Optional stopping performance under graphic and numeric CRT formatting
[AD-A143274] 22 p3586 N84-32712
Two phase system; interfacial turbulence
[AD-A143182] 22 p3593 N84-32754
Algorithmic integration of elementary transcendental functions on an algebraic curve
22 p3636 N84-33052
Some practical Runge-Kutta formulas
[DE84-013539] 22 p3648 N84-33123
Implicit function method for the Liouville equation
[DE84-013282] 22 p3650 N84-33140
French firm uses unique flexible workshop with laser cutter 22 p3651 N84-33143
A nonstationary relaxation technique for solving the equations of gas dynamics 23 p3746 N84-33746
Spatial structures of optical parameters in the California current as measured with the Nimbus-7 coastal zone color scanner
[AD-A144070] 23 p3803 N84-34115
Equivalence between maximization problems subjected to inequality constraints
[INPE-3166-PRE/536] 23 p3818 N84-34206
The 2-on-1 stochastic duel
[AD-A143679] 23 p3820 N84-34224
An analysis of the effectiveness of the problem solving skills for managers training package--USCG
[AD-A144017] 23 p3834 N84-34317
Standardization in software conversion of (ROM) estimating 24 p3862 N84-34475
Some boundary integral equation methods and their application to seismic exploration
24 p3918 N84-34803
Ada (trademark) training curriculum. Software engineering methodologies M201 teacher's workbook
[AD-A144240] 24 p3945 N84-34982
Ada (trademark) training curriculum. Advanced Ada Topics 1305, teacher's guide exercises
[AD-A144497] 24 p3947 N84-34993
A few necessary considerations for the use of the finite element methods by non-specialists
[INPE-3238-PRE/586] 24 p3949 N84-35005
Iterative methods for elliptic problems and the discovery of Q
[AD-A144483] 24 p3952 N84-35022
The SLxE program for the solution of nonlinear systems for elliptic differential equations — fluid mechanics
[REPT-23/83] 24 p3953 N84-35033
Socialist countries cooperate in computer R and D
24 p3961 N84-35081
Why Mars? 24 p3990 N84-35249

PROCEDURES
NT BOUNDARY INTEGRAL METHOD
NT CREW PROCEDURES (INFLIGHT)
NT FINITE ELEMENT METHOD
NT FINITE VOLUME METHOD
NT OPTICAL CORRECTION PROCEDURE
NT PANEL METHOD (FLUID DYNAMICS)

Guide to agricultural meteorological practices, second edition
[WMO-134] 03 p0412 N84-12697
Defense technical information center cataloging guidelines
[AD-A138500] 12 p1919 N84-22503
Guide to hydrological practices. Volume 2: Analysis, forecasting and other applications
[WMO-168] 15 p2358 N84-25145
Guide to climatological practices, second edition
[WMO-100] 15 p2371 N84-25225
Human factors engineering. Part 1: Test procedures
[AD-A140343] 16 p2539 N84-26302
Development of a qualification standard for adhesives used in hybrid microcircuits
[NASA-CR-161978] 18 p2832 N84-27979
A code of practice to constrain Ada (Trademark)
[AD-P003559] 21 p3335 N84-31163
A Gerdien condenser system for measuring stratospheric charged particle densities
[AD-A143317] 22 p3623 N84-32958
Notes for medical catalogers, 1983
[PB84-195874] 22 p3675 N84-33296
Ada (trademark) training curriculum. Software engineering methodologies M201 teacher's workbook
[AD-A144240] 24 p3945 N84-34982
Ada (trademark) training curriculum. Software engineering methodologies m201 teacher's guide, volume 1
[AD-A144256] 24 p3946 N84-34984

PROCESS CONTROL (INDUSTRY)
DATATRIEVE used in a control-system database
[DE83-014187] 01 p0162 N84-11064
East Europe report: Scientific affairs, no. 789
[JPRS-84426] 02 p0205 N84-11336
Report on development, installation of industrial robots 02 p0205 N84-11339
Adaptation and arrangements for transparency microfilming
[INPE-2831-PRE/382] 02 p0222 N84-11454
Walk-through survey report: Control technology for integrated circuit fabrication, Xerox Corporation, El Segundo, California
[PB83-239053] 03 p0359 N84-12333
Advances in computer-aided process planning
[PB83-252254] 05 p0664 N84-14362
The Grindomatic or the optimization of cutting conditions during production for plunge-cut grinding
[CRIF-MC-76] 07 p1012 N84-16589
EASAMS architecture for management and control systems 08 p1207 N84-17871
Performance characteristics of VAD single mode fibers in mass production basis 11 p1725 N84-21254
High temperature solid oxide electrolytes for research in metallurgical processes and steelmaking
11 p1740 N84-21352
System for Application oriented Requirement Specification (SARS)
[BMFT-FB-DV-83-006] 12 p1885 N84-22286
Analysis of the transfer function model of tray-type binary distillation columns with liquid hydraulic delay
[RR-234] 13 p1975 N84-22816
Ceramic tube materials and processing development
[PB84-151653] 14 p2135 N84-23795
Ion implanted GaAs IC. Process technology
[AD-A139348] 14 p2242 N84-24461
A computer package for designing pH regulation systems 15 p2391 N84-25344
Some notes on optimization of confidence bands in process control based on approximate models
[RR-215] 19 p3003 N84-29031
Structurally stable, thin silicon solar cells
19 p3044 N84-29309
Process in manufacturing high efficiency AlGaAs/GaAs solar cells by MO-CVD 19 p3044 N84-29311
Flat-plate solar array project: Experimental process system development unit for producing semiconductor-grade silicon using the silane-to-silicon process
[NASA-CR-173762] 19 p3049 N84-29348
Man-machine systems group
[WTHD-161] 20 p3263 N84-30703
Supervisory control: Introduction and theory — industrial plant control 20 p3263 N84-30706
Modeling the human operator's supervising behavior — industrial plants 20 p3264 N84-30707
A utility plant simulator for control room experiments
20 p3264 N84-30708
Fault management 20 p3264 N84-30709
Advance in materials technology: Monitor issue number 1
[PB84-196286] 21 p3369 N84-31377
Intelligent instruments for process measurement techniques (monitoring of sensors)
[BMFT-FB-T-84-078] 21 p3407 N84-31611
Effect of processing conditions on the reliability of crosslinked polyethlene cable insulation
[DE84-014902] 22 p3560 N84-32546

PROCESS HEAT
Technical and economic feasibility of Stirling cycle industrial heat pumps
[DE84-005486] 11 p1653 N84-20793
Low-temperature IPH parabolic troughs: Design variations and cost-reduction potential
[DE84-000024] 12 p1843 N84-22016

PROCESSES
An abstraction mechanism for process algebra
[MC-IW-231/83] 07 p1066 N84-16916
An algebraic specification method for processes over a finite action set
[MC-IW-232/83] 07 p1066 N84-16917
The algebra of recursively defined processes and the algebra of regular processes
[MC-IW-235/83] 07 p1066 N84-16918

PROCESSORS (COMPUTERS)
U CENTRAL PROCESSING UNITS

PROCUREMENT
NT GOVERNMENT PROCUREMENT

Integrated bid estimate systems for contractors
05 p0717 N84-14699
Economic analysis model program user's manual (Burroughs version)
[AD-A135950] 09 p1405 N84-19182
Software Acquisition Resource Expenditure (SARE) data collection methodology
[AD-A137084] 10 p1564 N84-20247
Procurement of materials required to fabricate and test space-qualified quadrant photo tubes for the SHAD satellite sensor
[AD-A139862] 15 p2280 N84-24696
Components selection, procurement and control for ESA spacecraft and associated equipment
[ESA-PSS-01-60-ISSUE-1] 16 p2458 N84-25760
Competition as an acquisition strategy: Impact of competitive research and development on procurement costs
[AD-A141313] 18 p2944 N84-28667
Aircraft Spare Stockage Methodology (aircraft spares) study
[AD-A142259] 19 p2955 N84-28730

Information search in judgment tasks: The effects of unequal cue validity and cost
[AD-A141712] 19 p3063 N84-29437
DBMS conversion case study
[DE84-011205] 20 p3315 N84-31054
Comparative analysis of government and private sector ADP acquisition
[AD-A144523] 24 p3969 N84-35131

PROCUREMENT MANAGEMENT
Life cycle costing in a dynamic environment
[AD-A133023] 05 p0757 N84-14967
Microcomputer software system development: Suggested revisions to MIL-STD-1521A for cost-effective acquisition of custom software through software engineering
[AD-A134363] 07 p1055 N84-16830
Quality management in procurement 08 p1167 N84-17601
Consolidation of DOD bidder's mailing list application
[AD-P002752] 13 p2050 N84-23299
An intelligent manual for price analysis
[AD-P002798] 13 p2057 N84-23344
1982 US Army Materiel Development and Readiness Command (DARCOM) integrated logistic support (ILS) study finding on contracting for ILS
[AD-P002805] 13 p2058 N84-23351
Improving the effectiveness of award fee contracts for program management support services
[AD-P002827] 13 p2062 N84-23372
Information search in judgment tasks: The effects of unequal cue validity and cost
[AD-A141712] 19 p3063 N84-29437
Program Manager: The Journal of the Defense Systems Management College, volume 13, no. 2, March - April 1984
[AD-A141770] 19 p3114 N84-29789
DBMS conversion case study
[DE84-011205] 20 p3315 N84-31054
Managing aircraft/simulator concurrency
[AD-P003463] 21 p3511 N84-32240
AVCAL (Aviation Consolidated Allowance) restoration program and aircraft material condition
[AD-A144045] 23 p3687 N84-33366

PROCUREMENT POLICY
Bounding the costs of hedging against Space Shuttle contingencies: A policy analytic approach
[N1829-AF] 02 p0184 N84-11196
Selection of multiple sources in weapon systems acquisition
[AD-P002837] 13 p2063 N84-23382
A comparison of simulator procurement/program practices: Military versus commercial
[AD-P003453] 21 p3509 N84-32230
Effectiveness of multi-year and advance procurement contracts
[AD-P003462] 21 p3510 N84-32239
AVCAL (Aviation Consolidated Allowance) restoration program and aircraft material condition
[AD-A144045] 23 p3687 N84-33366
Notice for airmen, part 2. Index of approved manufacturing operations for aeronautical appliances according to paragraph 18 of test procedures for aeronautical appliances
[NFL-II-38/84] 24 p3847 N84-34394
Comparative analysis of government and private sector ADP acquisition
[AD-A144523] 24 p3969 N84-35131

PRODUCT DEVELOPMENT
NT WEAPONS DEVELOPMENT
Subnanosecond-rise-time, low-impedance pulse generator
[DE83-013793] 01 p0074 N84-10485
Ion-source and ion-accelerator development at Los Alamos
[DE83-014123] 01 p0146 N84-10959
Growian rotorblades: Production development, construction and test
[BMFT-FB-T-83-111] 02 p0233 N84-11526
Overview of state-of-the-art flywheel technology 03 p0344 N84-12231
Spinoff, 1983
[NASA-TM-85475] 03 p0461 N84-13033
Development of a residential gas-absorption heat pump
[DE83-017218] 04 p0536 N84-13526
Materials studies for magnetic fusion energy applications at low temperatures, part 6
[PB83-259630] 05 p0657 N84-14320
Reliability programs for nonelectronic designs, volume 2
[AD-A133625] 05 p0689 N84-14528
The software engineering environment project model (PROMOD) 05 p0722 N84-14737
The role of quality assurance in the development of software for space applications 05 p0723 N84-14743
Practical experience of engineering software production to a structured programming standard 05 p0723 N84-14744
Software engineering techniques employed in on-schedule completion of Meteosat-2 software 05 p0723 N84-14746
European community support to software engineering development through Ada activities and ESPRIT 05 p0724 N84-14747
Software production in a large space project: The SPOT mission center 05 p0724 N84-14752
Modern software development tools in space projects on the example of a Spacelab experiment 05 p0725 N84-14761
Infrared Astronomical Satellite (IRAS) end-to-end data system 05 p0725 N84-14763
4.0 K cryocooler project
[DE84-000332] 06 p0822 N84-15358
New technologies in the forefront of industrial developments 07 p0944 N84-16123
Reliability and maintainability data acquisition in equipment development tests
[DE84-002994] 07 p1084 N84-17051
The mobile laser ranging system and its planned use in the framework of international research on geodynamics 08 p1174 N84-17649
Support development program for the qualification of solar farm collectors
[BMFT-FB-T-83-207] 08 p1181 N84-17696
Design and development of an advanced solar array drive mechanism 09 p1294 N84-18457
Centralized warning systems for the new generation of airliners
[VTH-LR-373] 10 p1424 N84-19315
Design aspects of TV-SAT/TDF-1 heat pipes 10 p1440 N84-19404
Development, production and marketing of a temporarily protected blackplate (TPP) — cans
[BMFT-FB-T-83-195] 10 p1463 N84-19555
Stirling engine applications study
[PB84-148055] 12 p1823 N84-21888
Human factors in remote control engineering development activities
[DE84-003201] 12 p1868 N84-22176
Functional requirements for the development and use of a software-cost database
[AD-B079998] 12 p1885 N84-22287
The accelerating pace of advancing aero engine technology
[PNR-90191] 13 p1934 N84-22577
Characterization of humidity sensors and physical properties of h20
[AD-A139024] 13 p1993 N84-22938
Airborne lidar for oceanography and hydrology (FLOH)
[ESA-TT-799] 13 p1996 N84-22955
Managers handbook for software development
[NASA-TM-85604] 13 p2028 N84-23150
West Europe report: Science and technology
[JPRS-WST-84-011] 13 p2038 N84-23224
Thomson semiconductors bipolar IC strategy to 1986 13 p2039 N84-23227
Industry official on progress in Soviet robotics program 14 p2155 N84-23915
Development of a simple wind speedometer for application in countries of the developing world
[BMFT-FB-T-83-310] 15 p2336 N84-25022
Projects and programs as a reflection of the performances of engineers in aircraft making by Hans-Wocke
[MBB-UT-24-83-O] 16 p2433 N84-25608
Study of future recorders for ESA
[ESA-CR(P)-1864] 16 p2496 N84-26018
Increase of worker autonomy at the industrial work place as shown in three humanization projects in Sweden, in Great Britain and in the USA
[BMFT-FB-HA-83-031] 16 p2564 N84-26453
POPSAT: A candidate satellite system for solid Earth applications and sciences. Preliminary feasibility study. Volume 2: Development program
[ESA-CR(P)-1882-VOL-2] 17 p2614 N84-26736
Comparing software development methodologies for Ada (trade name): A study plan
[PB84-178029] 17 p2755 N84-27491
Development of reaction-bonded silicon carbide (SiSiC)-ceramics
[JUEL-1873] 18 p2819 N84-27901
A cost data base for the development of technical/scientific software
[NLR-TR-83047-U] 18 p2922 N84-28529
Current development at National Aerospace Laboratory (NLR) and Fokker in computer aided aerodynamic design
[NLR-MP-83031-U] 18 p2922 N84-28530
Growian rotor blades: Production development, construction and test
[NASA-TM-77479] 19 p2965 N84-28793
The 8th European Specialist Workshop on Active Microwave Semiconductor Devices 4-6 may 1983
[AD-A142252] 20 p3177 N84-30180
Computer science and technology: Introduction to software packages
[NBS-SP-500-114] 20 p3266 N84-30740
Development of a digital air data computer using modern microprocessors, hybrid circuits, and pressure sensors with frequency output
[BMFT-FB-W-84-018] 21 p3343 N84-31208
Development of a device for evaluation of interferograms
[BMFT-FB-T-84-097] 21 p3407 N84-31613
Silicon solar cells: Development and qualification of thin (50 to 100 micron) and large area (5 cm x 5 cm) high efficiency cells
[BMFT-FB-W-84-016] 21 p3436 N84-31796
Managing a low quantity, high technology trainer development program
[AD-P003484] 21 p3511 N84-32241
CSIR activities in South Africa
[ISBN-0-7988-3029-8] 21 p3527 N84-32340
Intelligent infrared sensor
[BMFT-FB-T-84-092] 22 p3658 N84-33189
Polycrystalline silicon study: Low-cost silicon refining technology prospects and semiconductor-grade polycrystalline silicon availability through 1988
[NASA-CR-173897] 22 p3662 N84-33213
Spinoff, 1984
[NASA-TM-85596] 22 p3676 N84-33305
Integrated technology wing design study
[NASA-CR-3586] 23 p3693 N84-33402
A study for developing an ultrasonic Doppler flowmeter
[BMFT-FB-T-84-135] 23 p3752 N84-33788
Silicon solar cell process development, fabrication and analysis
[NASA-CR-173950] 23 p3787 N84-34020
Development of a wind energy converter with single blade rotor
[BMFT-FB-T-84-114] 23 p3792 N84-34050
New markets for integrated circuits firms in UK, France and West Germany 24 p3891 N84-34636

PRODUCTION
Acceleration of S&T progress discussed 01 p0055 N84-10358
Development of mass-producible line-focus tracking concentrating solar collectors. Category 1: Collectors
[DE83-015629] 03 p0403 N84-12639
Production networks: A dynamic model of production
[AD-A133571] 06 p0933 N84-16065
Stand on space station participation to be surveyed 23 p3732 N84-33658
Production methods and properties of metal powders for high temperature pressing 24 p3877 N84-34567

PRODUCTION COSTS
A probabilistic analysis of silicon cost
[NASA-CR-173461] 12 p1801 N84-21741
Engine affordability — aircraft engines
[PNR-90178] 13 p1933 N84-22574
Unit production cost of the radar beacon transponder (Rbx)
[AD-A121532] 17 p2652 N84-26956
Space station: Cost and benefits
[NASA-CR-173718] 18 p2806 N84-27815
Designing antennas to price; or the economics of antenna design
[AD-P003412] 19 p3015 N84-29116

PRODUCTION ENGINEERING
NT PRODUCTION PLANNING
Measures to step up practical use of scientific work discussed 01 p0054 N84-10350
Effects of science, technology on structure of production process 01 p0054 N84-10351
Use of scientific potential in industry discusses 01 p0055 N84-10353
Scientific-production complexes organized in Georgia 01 p0056 N84-10362
Development of a multilayer process based on the down draft principle for the sintering of iron ore
[BMFT-FB-T-83-065] 02 p0197 N84-11282
Improvement of manufacturing of drawn and ironed steel cans
[BMFT-FB-T-83-094] 02 p0198 N84-11286
Electroforming of complicated structures for the nuclear and aerospace industry
[MBB-BB-536-82-OE] 02 p0207 N84-11350
Civil applications of infrared techniques
[BMFT-FB-T-83-132] 02 p0257 N84-11753
Investigation in the application of computer-aided process-planning techniques for mechanical engineering at Bendix Kansas City
[DE84-000302] 04 p0582 N84-13842
Artificial intelligence techniques for industrial applications in job shop scheduling
[AD-A132164] 04 p0586 N84-13867

Methods for choosing buffer size in tandem production operations
[AD-A132639] 05 p0735 N84-14828
Powder metallurgy
[BLL-M-35271-(5828.4)] 06 p0803 N84-15231
Trends in steam turbine design, testing and manufacturing 06 p0840 N84-15478
The human side of robotics: Results from a prototype study on how workers react to a robot
[AD-A133438] 06 p0894 N84-15805
Identification of bottlenecks and capacity constraints in F-14, F-15, F-16, and F/A-18 aircraft production
[AD-A134629] 08 p1095 N84-17121
Mini-Seminar on Quality Assurance
[CSIR-TSD-0008/82] 08 p1167 N84-17600
Management input in quality 08 p1168 N84-17602
Design QA on a small batch project 08 p1168 N84-17603
Advanced finishing methods for spiral bevel and hypoid gears 09 p1293 N84-18451
Laser cutting: An advanced technology in sheet metal working 09 p1293 N84-18452
Manufacturing methods and technology, CAM (Computer Aided Manufacturing) related projects, FY 83-85
[AD-A136572] 09 p1367 N84-18924
Mobilization and defense management technical reports series. Management implications of industrial support capabilities for Space Shuttle operations
[AD-A137460] 10 p1438 N84-19390
Mechanically working fully-automatic plant for the regeneration of used aluminum cap screws for bottles
[BMFT-FB-T-83-215] 10 p1472 N84-19615
Development and prototype production of photovoltaic energy supply systems
[BMFT-FB-T-83-238] 10 p1531 N84-20025
Manufacturing information system
[AD-A137891] 11 p1641 N84-20730
Manual for implementing a Shared Time Engineering Program (STEP) September 1980 through September 1983
[PB84-144260] 12 p1804 N84-21765
A review of advanced manufacturing technology — gas turbine components
[PNR-90194] 13 p1975 N84-22815
Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-25670-1] 13 p1985 N84-22884
Cost risk trade-offs in timing the production decision
[AD-P002753] 13 p2050 N84-23300
The make or buy decision--its nature and impact
[AD-P002779] 13 p2054 N84-23326
An automated airframe production cost model
[AD-P002787] 13 p2056 N84-23334
Quality at the crossroads
[AD-P002818] 13 p2060 N84-23363
Material handling: A target for productivity improvement
[AD-P002829] 13 p2062 N84-23374
The impact of factory automation and robotics on the contracting and acquisition processes
[AD-P002830] 13 p2062 N84-23375
A survey of contractor productivity measurement practices
[AD-P002831] 13 p2063 N84-23376
Research in man-machine interaction discussed 13 p2065 N84-23393
Development and demonstration of economic production systems in airframe construction. Part 2: Technological phase. Part 6: Review 14 p2093 N84-23555
Saab claims world's most modern engine-assembly plant 14 p2135 N84-23800
Volvo LCP: New materials, production methods 14 p2136 N84-23801
Engineering programming at the Ecole Nationale Superieure des Telecommunications (ENST): Particularities and tendencies
[ENST-C-83004] 15 p2390 N84-25338
On a series of problems with machines: Costs of modernization and storage in case of demand
[TUM-M8312] 16 p2475 N84-25863
Basic requirements for product assurance of ESA spacecraft and associated equipment
[ESA-PSS-01-0-ISSUE-1] 16 p2499 N84-26034
Product assurance management and audit systems for ESA spacecraft and associated equipment
[ESA-PSS-01-10-ISSUE-1] 16 p2499 N84-26035
Application of sputtering technology to microwave integrated circuit fabrication 17 p2853 N84-28965
Materials research for advanced inertial instrumentation. Task 3: Rare earth magnetic material technology as related to gyro torquers and motors — high energy SmCo5 magnets
[AD-A140611] 17 p2762 N84-27542
Inspection of products for reliability indicators 18 p2824 N84-27926
High-speed growth of silicon crystals: Flat-plate solar array perspective 18 p2935 N84-28615
Batch and continuous recrystallization of secondary explosives
[DE84-009735] 19 p3002 N84-29024
The forecasts of computers and the policy-making of China
[AD-A141557] 19 p3072 N84-29488
Low cost manufacturing of tactical rocket motors 20 p3143 N84-29959
Precision flexible machining cells within a manufacturing system
[AD-A142527] 20 p3170 N84-30129
Initial insights on robotics
[DE84-010768] 20 p3197 N84-30302
Integrated Computer-Aided Manufacturing (ICAM) architecture, part 3. Volume 5: Composite function model of manufacture product (MFGO)
[AD-A142337] 20 p3272 N84-30766
Artificial intelligence and robotics
[AD-A142488] 20 p3278 N84-30810
Computer-Aided Engineering (CAE) in plastics technology
[CSIR-TRANS-1725] 21 p3370 N84-31380
Optimizing tools for generating spherical surfaces and polishing powders in optical production technology
[BMFT-FB-T-84-094] 21 p3499 N84-32178
Profit responsibilities in the simulation and training equipment industry
[AD-P003497] 21 p3515 N84-32263
Ceramic component manufacturing technology development — silicon carbide tubing for industrial waste heat recovery
[PB84-215276] 22 p3561 N84-32550
Polycrystalline silicon study: Low-cost silicon refining technology prospects and semiconductor-grade polycrystalline silicon availability through 1988
[NASA-CR-173897] 22 p3662 N84-33213
Production of extra-pure iron for cermet bearings 23 p3707 N84-33501
Development of production technologies for the series production of optical components with aspheric surfaces
[BMFT-FB-T-84-115] 23 p3727 N84-33620
Development of a production method for hard dielectric coating systems
[BMFT-FB-T-84-116] 23 p3727 N84-33621
Development of a production process for central receiver coatings
[BMFT-FB-T-84-124] 23 p3792 N84-34051
An alternative mathematical approach to movement as complex human behavior 24 p3957 N84-35054

PRODUCTION MANAGEMENT
Aquaculture techniques: A production forecasting model for aquaculture systems
[PB83-221713] 01 p0112 N84-10730
Integrated evaluation of the quality of steel cable wire
[BLL-M-35267-(5828.4)] 06 p0854 N84-15564
DECISION TECHNOLOGY: The catalyst for acquisition improvement
[AD-P002755] 13 p2051 N84-23302
Two-step industrial preparedness planning: Balancing funds and production capability
[AD-P002802] 13 p2058 N84-23348
Readiness planning in a peacetime environment
[AD-P002803] 13 p2058 N84-23349
Policy initiatives to achieve readiness and support objectives
[AD-P002804] 13 p2058 N84-23350
Use of economic mechanisms in managing scientific and technical progress 13 p2064 N84-23389
Research in man-machine interaction discussed 13 p2065 N84-23393
Industry urged to increase output of NC machine tool, robotics 14 p2155 N84-23914
On a series of problems with machines: Costs of modernization and storage in case of demand
[TUM-M8312] 16 p2475 N84-25863
Managing a low quantity, high technology trainer development program
[AD-P003464] 21 p3511 N84-32241
Improvements in work of aircraft repair plant no. 402 24 p3851 N84-34425
Decision-making process in management automation 24 p3892 N84-34644

PRODUCTION METHODS
U PRODUCTION ENGINEERING

PRODUCTION PLANNING
Acceleration of S&T progress discussed 01 p0055 N84-10358
Improved planning for local territorial units urged 01 p0055 N84-10360
Sterile devices: A GMP (Good Manufacturing Practices) workshop manual
[PB83-226563] 01 p0061 N84-10400
Investigation in the application of computer-aided process-planning techniques for mechanical engineering at Bendix Kansas City
[DE84-000302] 04 p0582 N84-13842
Advances in computer-aided process planning
[PB83-252254] 05 p0664 N84-14362
ISIS: A constraint-directed reasoning approach to job shop scheduling
[AD-A133296] 06 p0933 N84-16063
Error measurement of a deterministic approximation for stochastic production planning problem
[INPE-2768-PRE/341] 09 p1381 N84-19017
Interactive videodisc design and production, workshop guide
[AD-A136830] 10 p1498 N84-19791
Economic production rate study
[AD-P002793] 13 p2057 N84-23340
Two-step industrial preparedness planning: Balancing funds and production capability
[AD-P002802] 13 p2058 N84-23348
Planning and implementation of automated cutting in the precision engineering industry
[MBB-UA-772-83-O] 14 p2135 N84-23794
USSR report: Machine tools and metalworking equipment
[JPRS-UMM-84-008] 14 p2155 N84-23913
Engineering programming at the Ecole Nationale Superieure des Telecommunications (ENST): Particularities and tendencies
[ENST-C-83004] 15 p2390 N84-25338
Hierarchical planning systems applied to production: A study
[INPE-3147-PRE/531] 23 p3833 N84-34314

PRODUCTIVITY
Effects of science, technology on structure of production process 01 p0054 N84-10351
Scientists discuss increased production with fewer workers 01 p0055 N84-10356
Scientific, technical cooperation among CEMA member-countries urged 01 p0157 N84-11036
Stronger union of science and industry demanded 01 p0157 N84-11037
Improved management of scientific progress in Armenia urged 01 p0158 N84-11041
Bottom Line Academia Conference — quality management education
[AD-A131043] 01 p0159 N84-11048
Productivity measurement in software engineering
[PB83-227330] 01 p0160 N84-11054
Limnology, second edition
[DE83-016792] 03 p0402 N84-12627
Revitalization: An organizational program for the individual
[DE83-014949] 03 p0458 N84-13013
The use of cyclone modeling in the erection of precast segmental aerial construction
[AD-A132885] 05 p0663 N84-14358
General Purpose Electronic Test Equipment (GPETE) acquisition considerations for automated calibration
[AD-A133865] 05 p0718 N84-14709
Influences on group productivity. 2: Factors inherent in the person. A bibliographic synopsis
[AD-A131015] 06 p0891 N84-15790
Organizational outcomes of creativity
[AD-A132825] 06 p0933 N84-16066
Productivity and the forging industry 09 p1293 N84-18448
Productivity improvement in a jobbing shop 09 p1293 N84-18449
Broaching today 09 p1293 N84-18450
Data and analysis center for software: An IAC in transition
[AD-A135985] 09 p1369 N84-18936
Q-GERT model of the contracting cycle
[AD-A135639] 09 p1398 N84-19127
NASA's emerging productivity program 11 p1748 N84-21404
NASA-wide standard administrative systems 11 p1749 N84-21415
Program for processing raw materials 12 p1784 N84-21642
Product definition data interface 12 p1891 N84-22314
Analysis of production data from the Krafla geothermal field, Iceland
[DE84-006881] 13 p2006 N84-23014
Export trade: Big business for the small entrepreneur
[AD-P002811] 13 p2059 N84-23357
Material handling: A target for productivity improvement
[AD-P002829] 13 p2062 N84-23374
A survey of contractor productivity measurement practices
[AD-P002831] 13 p2063 N84-23376
Robotics impact on labor productivity examined 14 p2187 N84-24104

Impact of Latvian Robotics Institute on industry modernization 14 p2188 N84-24110
Level of robotization of Kazakhstan industry viewed 14 p2188 N84-24112
Data envelopment analysis and extensions for decision support and management planning
[AD-A139430] 14 p2246 N84-24489
An overview of productivity improvement efforts in Army organizations
[AD-A138589] 14 p2246 N84-24490
Siemens strategy includes DM 1 billion for submicrons IC's 17 p2640 N84-26893
The introduction of uncertainty techniques to the productivity investment fund
[AD-A140864] 17 p2770 N84-27591
Spatiotemporal structure of quanta of industrial work and its physiological basis 18 p2897 N84-28379
A systematic comparative analysis of conditions analogous to long-duration space missions
[AD-P003353] 18 p2912 N84-28469
Management of CAD/CAM information: Key to improved manufacturing productivity
[NASA-TM-86255] 19 p3060 N84-29545
Pareto-optimality, efficiency analysis and empirical production functions
[AD-A141768] 19 p3088 N84-29601
Seeding the Ada (trademark) software components industry
[AD-P003432] 20 p3272 N84-30764
Realization of human work capacity: Interdisciplinary problems 21 p3454 N84-31920
Stress in work 21 p3454 N84-31921
Practical writing and editing techniques
[DE84-012642] 21 p3519 N84-32294
Versatility of new east, west European robots viewed 23 p3728 N84-33624
Kirov's plant troubles with robotization 23 p3728 N84-33625
Far north as source of nonferrous metals 24 p3874 N84-34551
Managerial and organizational determinants of efficiency in research teams (social sciences)
[AD-A144153] 24 p3968 N84-35125

PRODUCTS
NT ASPHALT
NT GREASES
NT PETROLEUM PRODUCTS
NT REACTION PRODUCTS
Product assurance management and audit systems for ESA spacecraft and associated equipment
[ESA-PSS-01-10-ISSUE-1] 16 p2499 N84-26035
Forty years of development in diamond tools
[CSIR-TRANS-1730] 22 p3583 N84-32564

PROFICIENCY
U ABILITIES

PROFILE METHOD (FORECASTING)
Improved planning for local territorial units urged 01 p0055 N84-10360
Effects of aircraft and flight parameters on energy-efficient profile descents in time-based metered traffic
[NASA-CR-172338] 17 p2604 N84-26685
Crop identification by means of spectral profiles — hand held radiometers 23 p3768 N84-33888

PROFILES
Some aspects of flight trajectory control in future avionic systems for combat aircraft 03 p0316 N84-12066
An integrated AFCS for the "PROFILE"-mode 03 p0317 N84-12069
Quantitative sputter profiling at surfaces and interfaces 06 p0816 N84-15314
Depth resolution due to instrumental factors in sputter-assisted depth profiling 06 p0816 N84-15315
An experimental investigation of the aerodynamic effects of forward facing wedges on the upper surface and leading edge of an aerofoil, with emphasis on high angles of attack
[ARL-AERO-TECH-MEMO-356] 11 p1599 N84-20477

PROFILOMETERS
CTD data from the N.E. Atlantic 31N to 48N, July 1982 Discovery cruise 130
[IOS-165] 15 p2372 N84-25233
Review of specific antenna configurations: An estimate of cost and performance versus frequency for a simple (10 Lambda)-2 clear-air radar antenna array 17 p2694 N84-27158

PROGNOZ SATELLITES
Commentary on Prognoz-9 satellite 09 p1264 N84-18253
Observations of He+ ions in the solar wind
[KGI-PREPRINT-064] 15 p2428 N84-25585
Research on 'Prognoz-9' and 'Astron' satellites 19 p2972 N84-28838

PROGRAM MANAGEMENT
U PROJECT MANAGEMENT

PROGRAM VERIFICATION (COMPUTERS)
Data General Corporation ECLIPSE MV/8000, AOS/VS BASIC revision 2.20
[PB83-233452] 01 p0119 N84-10776
Proof-checking, theorem proving and program verification
[AD-A130636] 01 p0123 N84-10799
Verification of concurrent programs: A temporal proof system
[AD-A131501] 01 p0123 N84-10801
The TRW DATACOM AWS 246, TRW COBOL, Version 8.0 (Pre-Release)
[PB83-228148] 01 p0125 N84-10814
The NCR Corporation, WS 210, NCR COBOL Release 3.0 (Pre-Release)
[PB83-228171] 01 p0125 N84-10815
Burroughs Corporation B21-6T (512K), B20 COBOL Release 3.0 (Pre-Release)
[PB83-228130] 01 p0125 N84-10816
Convergent technologies IWS 111, CT COBOL Version 8.0 (Pre-Release)
[PB83-228122] 01 p0125 N84-10817
Convergent technologies AWS 267, CT BASIC Version 8.0 (Pre-Release)
[PB83-227306] 01 p0125 N84-10818
Burroughs Corporation B21-6T (512K), B20 BASIC Release 3.0 (Pre-Release)
[PB83-227298] 01 p0126 N84-10819
Convergent technologies, IWS 111, CT FORTRAN Version 8.0 (Pre-Release)
[PB83-227280] 01 p0126 N84-10820
The TRW Datacom, AWS 267, TRW BASIC Version 8.0 (Pre-Release)
[PB83-227272] 01 p0126 N84-10821
The TRW Datacom, AWS 246, TRW FORTRAN Version 8.0 (Pre-Release)
[PB83-227264] 01 p0126 N84-10822
The NCR Corporation, Office Systems Division, WS 210, NCR FORTRAN Release 3.0 (Pre-Release)
[PB83-227256] 01 p0126 N84-10823
The NRC Corporation, Office Systems division, WS 150 16Mb, NRC BASIC Release 3.0 (Pre-Release)
[PB83-227249] 01 p0126 N84-10824
Burroughs Corporation, B21-6T (512K), B20 FORTRAN Release 2.0 (Pre-Release)
[PB83-227231] 01 p0126 N84-10825
Data General Corporation ECLIPSE C/350, AOS FORTRAN 77, revision 2.11
[PB83-233460] 01 p0126 N84-10826
Burroughs Corporation B21-6T (512K), B20 COBOL release 3.0 (Pre-Releaso)
[PB83-233254] 01 p0127 N84-10827
Convergent technologies, IWS 111, CT COBOL version 8.0 (Pre-Release)
[PB83-233247] 01 p0127 N84-10828
Data General Corporation ECLIPSE C/350, MP/BASIC revision 2.00
[PB83-233478] 01 p0127 N84-10829
A methodology for collecting valid software engineering data
[AD-A131332] 02 p0272 N84-11781
Documentation of concurrent programs
[AD-A131476] 02 p0273 N84-11784
Multi-parametric data acquisition system with DC11-C interface towards PDP 11/34
[DE82-906300] 02 p0275 N84-11798
Data General Corporation ECLIPSE C/350, AOS and AOS/VS HICOBOL revision 2.00
[PB83-233486] 02 p0275 N84-11799
Data General Corporation ECLIPSE MV/8000, AOS/VS FORTRAN 77 revision 2.11
[PB83-233262] 02 p0275 N84-11800
Digital Equipment Corporation VAX-11/750, VAX-11 BASIC V2.0
[PB83-233213] 02 p0275 N84-11801
Digital Equipment Corporation, PDP-11/24, PDP-11 BASIC-PLUS-2
[PB83-233205] 02 p0275 N84-11802
Perkin-Elmer, Perkin-Elmer 3240, FORTRAN 7 release RO5-01
[PB83-233072] 02 p0275 N84-11803
NCR Corporation, NCR 19300, ITX COBOL, release 1.0 (COBOL technical report)
[PB83-241943] 02 p0276 N84-11805
NCR Corporation, NCR 19300, NCR ITX COBOL release 1.0
[PB83-241935] 02 p0276 N84-11806
Computer Sciences Corporation UNIVAC 1100/80, CSTS BASIC - release BAS160
[PB83-237412] 02 p0276 N84-11807
Data Generation Corporation Eclipse MV/8000, AOS/VS COBOL Revision 2.14
[PB83-237396] 02 p0276 N84-11808

The TRW DATACOM AWS 246, TRW COBOL Version 8.0 (Pre-Release)
[PB83-233981] 02 p0276 N84-11810
The NCR Corporation, Office Systems Division, WS 210, NCR COBOL release 3.0 (Pre-Release)
[PB83-233718] 02 p0276 N84-11811
Northern Telecom, Incorporated NTI-585 ACOBOL/3 release 3 (COBOL technical report)
[PB83-241521] 03 p0422 N84-12758
Northern Telecom Incorporated NTI-585 XCOBOL, release 3
[PB83-241539] 03 p0422 N84-12759
Northern Telecom, Incorporated NTI-585 XCOBOL, release 3 (COBOL technical report)
[PB83-241547] 03 p0422 N84-12760
Digital Equipment Corporation VAX 11/750, VAL-11 COBOL version 2.2
[PB83-241588] 03 p0422 N84-12761
NCR Corporation NCR 9300 ITX-BASIC release 1.1
[PB83-243410] 03 p0422 N84-12762
Computer Sciences Corporation UNIVAC 1100/80 CSTS FORTRAN, release FTN148
[PB83-243428] 03 p0422 N84-12763
Digital Equipment Corporation, PDP-11/44 COBOL-81 version 2.0
[PB83-247734] 03 p0422 N84-12764
Digital Equipment Corporation COBOL-81 version 2.0 (COBOL technical report)
[PB83-247742] 03 p0423 N84-12765
FASTBUS diagnostic language users manual, version 3(74)
[DE83-017932] 04 p0581 N84-13837
Digital Equipment Corporation, VAX 11/750, VAL-11 COBOL version 2.2 (COBOL technical report)
[PB83-241596] 04 p0583 N84-13851
IBM Corporation IBM4341 IBM BASIC release 1.0
[PB82-240945] 04 p0583 N84-13852
Datapoint Corporation Datapoint 8800 RMS COBOL 2.3.A
[PB83-240962] 04 p0583 N84-13853
Datapoint Corporation, Datapoint 8800, RMS COBOL 2.3.A
[PB83-241075] 04 p0583 N84-13854
Northern Telecom, Incorporated NTI-585 A COBOL/3 release 3
[PB83-241513] 04 p0584 N84-13855
Hewlett Packard HP 3000 series 40, COBOL 11/3000 version A.00.09
[PB83-254805] 04 p0584 N84-13858
Hewlett Packard HP 3000 series 40, COBOL 11/3000 version A.00.09 (COBOL technical report)
[PB83-254813] 04 p0584 N84-13859
Benchmarking the join operations of relational database machines
[AD-A132312] 04 p0584 N84-13861
INTEL 432/670 Ada benchmark performance evaluation in the Multiprocessor/Multiprocess environment
[AD-A132774] 05 p0719 N84-14715
Stratus Computer, Inc. Stratus 32, VOS COBOL release 2.5
[PB83-262378] 05 p0720 N84-14722
IBM Corporation IBM 4341, VS FORTRAN release 3.0
[PB83-257998] 05 p0720 N84-14723
A case grammar approach to error correction in computer programs 05 p0721 N84-14725
IDA: Computer-aided testing of real-time software 05 p0722 N84-14736
A user's view of the Statistic Analysis Package (SAP): A new software quality assurance tool for FORTRAN programs 05 p0722 N84-14738
Onboard software testing and qualification 05 p0724 N84-14754
SPOT on-board software test and validation: Methodology and tools 05 p0724 N84-14755
Verification and validation of Infrared Astronomical Satellite (IRAS) on-board software 05 p0725 N84-14757
Combining testing with formal specifications: A case study
[AD-A134110] 05 p0726 N84-14764
Computer program development specification for Ada integrated environment: Virtual memory methodology, B5-AIE(1).VMM(2)
[AD-A134091] 05 p0726 N84-14767
Computer program development specification for Ada integrated environment: MAPSE debugging facilities, B5-AIE(1).DBUG(1)
[AD-A134070] 05 p0727 N84-14771
A 2-tiered approach to specifying programs
[AD-A133949] 05 p0727 N84-14775
Enhancement and verification of the Navy CASEE model (Calendar year 1982 task)
[AD-A133077] 05 p0730 N84-14793
Validation of digital systems in avionics and flight control applications handbook, volume 1
[AD-A133222] 06 p0788 N84-15150

PROUST: Knowledge-based program understanding
[AD-A133447] 08 p0897 N84-15825
TERR, PERR, and GIGC: Three programs to compute verification statistics
[PB84-127521] 08 p1193 N84-17775
Ten years of Hoare's logic, a survey. Part 2: Nondeterminism 08 p1209 N84-17882
Verification of concurrent programs: A temporal proof system 08 p1209 N84-17884
Sperry Univac, Univac 1100/80, UBASIC/BBASIC level 9R1
[PB84-113901] 08 p1214 N84-17919
Sperry Univac, Univac 1100/80, ASCII FORTRAN level 10R1A
[PB84-113893] 08 p1214 N84-17920
Four Phase Systems, Incorporated IV/90 Mod 2 COBOL '74 release BE07
[PB84-102706] 08 p1214 N84-17923
Four Phase Systems, Incorporated IV/90 Mod 2 COBOL '74 release BE07.COBOL technical report
[PB84-102714] 08 p1215 N84-17924
Verification of hardware design correctness: Symbolic execution techniques and criteria for consistency
[AD-A136466] 09 p1365 N84-18912
Program mutation: An approach to software testing
[AD-A135775] 09 p1368 N84-18933
Research in programming languages and software engineering
[AD-A136037] 09 p1369 N84-18937
Burroughs Corporation, Burroughs B3955, Burroughs COBOL, version 6.7
[PB84-126446] 09 p1370 N84-18947
Harris Corporation, Harris H800, FORTRAN 77 NON-SAU, version 3.12
[PB84-126479] 09 p1370 N84-18948
Harris Corporation, Harris H800, VOS COBOL, version 3.0
[PB84-126487] 09 p1370 N84-18949
Harris Corporation, Harris H800, Harris COBOL, version 3.0
[PB84-126495] 09 p1370 N84-18950
Harris Corporation, Harris H800, FORTRAN 77 SAU, version 3.12
[PB84-126503] 09 p1371 N84-18951
AFOS (Automation of Field Operations and Services)-era forecast verification
[PB84-129303] 10 p1541 N84-20098
The behavioral demonstrator: A requirements specification executor
[AD-A136944] 10 p1555 N84-20189
Ada compiler validation summary report: ROLM Ada compiler, version 4.42 V-002
[AD-A136732] 10 p1557 N84-20199
Ada compiler validation report: Western digital STC-Ada compiler, version C1.OM V-004
[AD-A136738] 10 p1557 N84-20200
Ada compiler validation summary report: NYU Ada/Ed, version 19.7 V-001
[AD-A136759] 10 p1557 N84-20201
Ada compiler validation summary report: ROLM Ada compiler, version 4.52 V-003
[AD-A136760] 10 p1557 N84-20202
Honeywell Information Systems, DPS 8/49C, COBOL CB4.3U1 B06
[PB84-134758] 10 p1557 N84-20204
Honeywell International Systems DPS 8/70 FORTRAN-77 REL COO
[PB84-136191] 10 p1557 N84-20205
Tandem Computers, Incorporated, Tandem Nonstop 2 COBOL T9201E01
[PB84-137199] 10 p1558 N84-20206
Operation of the Computer Software Management and Information Center (COSMIC)
[NASA-CR-173353] 10 p1558 N84-20207
Control Data Corporation CYBER 205 model 442 200 (G201-25)
[PB84-137421] 10 p1565 N84-20256
SDC/A Burroughs Corporation B94 CMS system CMS COBOL release 3.05
[PB84-140235] 10 p1565 N84-20257
Designing and constructing the Cloud Field Optical Simulator (CFOS) 10 p1578 N84-20337
Honeywell Information Systems DPS 6/96 COBOLR release 1.0
[PB84-137264] 11 p1705 N84-21113
Honeywell Information Systems DPS 8/49 FORTRAN (8) FZ3.0
[PB84-138213] 11 p1710 N84-21148
Honeywell Information Systems DPS 6/96 BASIC Interpreter Release 4.0
[PB84-139765] 11 p1710 N84-21149
Burroughs Corporation B3955 Burroughs FORT77 Version 6.7
[PB84-137223] 11 p1710 N84-21150
Honeywell Information Systems DPS 8/70M MULTICS FORTRAN compiler version 10.2
[PB84-140714] 11 p1710 N84-21151
Honeywell Information Systems DPS 6/96 FORTRANA release 2.1
[PB84-141233] 11 p1711 N84-21152
Cray Research, Incorporated, Cray 1-S Cray FORTRAN (CFT) version 1.11 Bugfix 1
[PB84-141256] 11 p1711 N84-21153
Enhancement and verification of the Navy CASEE (Comprehensive Aircraft Support Effectiveness Evaluation) model (calendar year 1983 task)
[AD-A138516] 12 p1764 N84-21505
Review and verification of CARE 3 mathematical model and code
[NASA-CR-166096] 12 p1876 N84-22227
An automated computer communication network protocol verification system
[AD-A138160] 12 p1881 N84-22260
Validation report IBM Corporation, IBM 5360 MODEL B24, SYSTEM/36 COBOL release 1
[PB84-149228] 12 p1885 N84-22288
D and B Computing Services, Inc., AMDAHL 470 V/8, IBM FORTRAN VS Release 3, Mod 0
[PB84-149327] 12 p1885 N84-22290
Digital Equipment Corporation, VAX 11/730, VAX-11 BASIC V2.2
[PB84-149606] 12 p1885 N84-22291
Burroughs Corporation, Burroughs B-7800, FORTRAN 77 Version III.4.1
[PB84-149913] 12 p1885 N84-22292
Honeywell Information Systems, DPS 6/96, CoBOLA Release 4.0
[PB84-150010] 12 p1886 N84-22293
IBM Corporation, IBM 5360 model B24 SYSTEM/36 COBOL Release 1
[PB84-150226] 12 p1886 N84-22294
Prime Computer, Incorporated, PRIME 750, FORTRAN-77, revision 19.3.1
[PB84-151265] 12 p1886 N84-22296
Digital Equipment Corporation, PDP-11/44, PDP-11 FORTRAN V5.0
[PB84-151273] 12 p1886 N84-22297
Validation report: Digital Equipment Corporation, VAX 11/780, PDP-11 FORTRAN V5.0
[PB84-149236] 12 p1886 N84-22298
Proceedings of the Eighth Annual Software Engineering Workshop
[NASA-TM-85445] 13 p2026 N84-23137
An error-specific approach to testing 13 p2027 N84-23143
Testing and error analysis of a real-time controller 13 p2027 N84-23144
Cleanroom certification model 13 p2028 N84-23147
Projecting manpower to attain quality 13 p2028 N84-23148
An approach to software baseline generation 13 p2028 N84-23149
Sperry Univac, OS/3 BASIC Version 9.0
[PB84-150218] 14 p2206 N84-24240
United Information Services, Inc., CDC CYBER 175, CDC FORTRAN 5.1
[PB84-157668] 14 p2207 N84-24245
Burroughs Corporation B7800, Large Systems BASIC 3.4.1
[PB84-157379] 14 p2208 N84-24254
Validation summary report, Data General Corporation, Eclipse MV/8000, AOS/VS COBOL revision 2.18
[PB84-156116] 14 p2208 N84-24258
Validation summary report, NCR Corporation, NCR V8585, VRX FORTRAN version 25
[PB84-156108] 14 p2209 N84-24259
Comparison of free-piston Stirling engine model predictions with RE1000 engine test data
[NASA-TM-83650] 14 p2249 N84-24509
Investigation, development, and evaluation of performance proving for fault-tolerant computers
[NASA-CR-166006] 15 p2385 N84-25307
STP: A mechanized logic for specification and verification 15 p2386 N84-25308
Specifying and verifying ultra-reliability and fault-tolerance properties 15 p2386 N84-25309
The hierarchical specification and mechanical verification of the SIFT design 15 p2386 N84-25310
Overview of code verification 15 p2386 N84-25311
A summary of HDM 15 p2386 N84-25312
Automatic construction of verification generators from Hoare logics 15 p2386 N84-25313
The PASCAL-HDM verification system 15 p2386 N84-25314
HDM/PASCAL verification system user's manual 15 p2387 N84-25315
The SIFT code specification 15 p2387 N84-25316
The proof of the SIFT implementation 15 p2387 N84-25317
A formal semantics for the SRI hierarchical program design methodology 15 p2387 N84-25318
On why it is impossible to prove that the BDX90 dispatcher implements a time-sharing system 15 p2387 N84-25319
Defining of the BDX930 assembly language 15 p2387 N84-25320
Verification of numerical algorithms 15 p2387 N84-25321
Hierarchical design and verification for VLSI 15 p2388 N84-25323
Three lectures on theorem-proving and program verification 15 p2388 N84-25324
PDSS/IMC qualification test software acceptance procedures
[NASA-CR-171026] 15 p2389 N84-25335
Requirements for validating system models
[AD-P002128] 16 p2525 N84-26214
On validation of mission software by closed-loop testing in realtime
[MBB-UA-770-83-O] 16 p2563 N84-26446
A static analyzer of FORTRAN programs
[INPE-3016-TDL/155] 17 p2752 N84-27465
Burroughs Corporation, B1990-DP system, B1000 system COBOL74 release 11.0
[PB84-179241] 17 p2755 N84-27487
Gould Incorporated, Gould concept 32/87, FORTRAN 77/X32 Rel. 2.0
[PB84-175603] 17 p2755 N84-27488
Gould Incorporated, Gould Concept 32/87, FORTRAN 77+Rel.4.0
[PB84-175629] 17 p2755 N84-27489
IBM Corporation, IBM 4341, IBM BASIC/MVS release 1.0
[PB84-175611] 17 p2755 N84-27490
A parametric analysis of HELSTAR
[AD-A141143] 18 p2846 N84-28071
Interactive programming
[AD-A141186] 18 p2921 N84-28525
COBOL automated verification system, implementation phase
[AD-A141063] 19 p3074 N84-29504
Tools for specification validation and understanding
[AD-A141079] 19 p3074 N84-29506
A study of the application of software metrics to COBOL
[AD-A141467] 19 p3076 N84-29516
Error in CALSPAN 3-dimensional crash vehicle simulation computer program for the case of massless segments
[AD-A141783] 19 p3078 N84-29528
Modular Computer System, Inc. Modular NASA extended FORTRAN 78 C.1
[PB84-180231] 20 p3267 N84-30734
Burroughs Corporation, B5900, large systems COBOL74 3.4.1.
[PB84-181379] 20 p3268 N84-30735
Improvements to software maintenance methods in real time embedded aviation flight systems
[AD-A141949] 20 p3269 N84-30742
Burroughs Corporation B1000 system interactive, BASIC release 11.0
[PB84-180215] 20 p3275 N84-30794
Data General Corporation ECLIPSE MV/8000, MP-BASIC revision 3.00
[PB84-181361] 20 p3275 N84-30796
United Information Services, Inc. CDC Cyber 175, super BASIC version 1.0
[PB84-181387] 20 p3276 N84-30797
Gould Incorporated, Gould Concept 32/87, COBOL Release 1.4
[PB84-180249] 20 p3276 N84-30798
J73AVS: A JOVIAL J73 automated verification system
[AD-P003521] 21 p3329 N84-31125
The Multiple System OFP Support (MSOS) system, a Pre-PMRT capability for evaluating tactical software
[AD-P003524] 21 p3330 N84-31128
Software progress tracking system
[AD-P003488] 21 p3513 N84-32255
Automated software testing
[AD-P003498] 21 p3515 N84-32264
A theory of error-based testing
[AD-A143533] 22 p3640 N84-33081
Programmer productivity aid catalog
[PB84-212166] 22 p3642 N84-33095
Methodology for software maintenance
[AD-A143763] 23 p3815 N84-34192
Program verification
[AD-A144360] 24 p3946 N84-34988

PROGRAMMED INSTRUCTION
NT COMPUTER ASSISTED INSTRUCTION
Automated Instructional Media Selection (AIMS)
[AD-A135749] 10 p1552 N84-20168

Self-teaching guide to Rand's text processor
[RAND/N-2056-RC-REV] 12 p1879 N84-22244
An internal review and operational trial of a human factors engineering self-paced course in accordance with the instructional systems development process
[AD-A140011] 15 p2385 N84-25301

PROGRAMMERS
Productivity measurement in software engineering
[PB83-227330] 01 p0160 N84-11054
Classifying bugs is a tricky business
[AD-A133264] 06 p0895 N84-15813
Ada (Trademark) training considerations
[AD-P003560] 21 p3335 N84-31164

PROGRAMMING LANGUAGES
NT ADA (PROGRAMMING LANGUAGE)
NT APL (PROGRAMMING LANGUAGE)
NT ASSEMBLY LANGUAGE
NT BASIC (PROGRAMMING LANGUAGE)
NT COBOL
NT FORTRAN
NT HIGH LEVEL LANGUAGES
NT LISP (PROGRAMMING LANGUAGE)
NT MACHINE ORIENTED LANGUAGES
NT NATURAL LANGUAGE (COMPUTERS)
NT PASCAL (PROGRAMMING LANGUAGE)
Design environments and the user interface for CAD of control systems 01 p0015 N84-10095
Simulation of systolic networks with a syntax directed solver for systems of sequence equations
[AD-A130232] 01 p0064 N84-10417
Microprocessor multi-task monitor
[DE83-012590] 02 p0270 N84-11769
CSRL (Conceptual Structures Representation Language): A language for expert systems diagonsis
[AD-A131403] 02 p0272 N84-11782
Draft remarks for the IFIPS Congress 1983 panel on how to obtain high performance for high-speed processors
[DE83-012689] 02 p0277 N84-11814
Comments on ISO/TC 97/SC 18/WG3 N120
[DE83-011391] 03 p0420 N84-12748
Praxis language environment: Distribution-package description
[DE83-017546] 03 p0421 N84-12750
A case grammar approach to error correction in computer programs 05 p0721 N84-14725
A 2-tiered approach to specifying programs
[AD-A133949] 05 p0727 N84-14775
Efficient demand-driven evaluation (2)
[AD-A133879] 05 p0727 N84-14776
FSCAN-83 report and user's manual
[AD-A132740] 05 p0729 N84-14788
TREGRM-83 report and user's manual
[AD-A132874] 05 p0729 N84-14789
A language for the specification and representation of programs in a data flow model of computation 05 p0731 N84-14800
INTERACT execute facility for job scheduling and manipulation
[DE84-001653] 05 p0758 N84-14968
Efficient demand-driven evaluation
[AD-A133477] 06 p0898 N84-15827
Software clock-divider
[DE84-001266] 07 p1053 N84-16817
Some experiences with gasp-like microcomputer simulation languages in FORTRAN, Pascal, and Ada
[AD-A134543] 07 p1055 N84-16832
COBOL programming standards at Sandia labs
[DE84-001790] 07 p1055 N84-16835
Guidelines for the design of large modular scientific libraries in Ada
[MW-NN-31/83] 07 p1056 N84-16840
The axiomatic semantics of programs based on Hoare's logic
[MC-IW-236/83] 07 p1056 N84-16841
Processes and the denotational semantics of concurrency 08 p1208 N84-17881
The fairness problem and nondeterministic computing networks 08 p1209 N84-17883
Design and prototype implementation of SCAN: A programming language for scene analysis 08 p1210 N84-17893
A demand-driven, coroutine-based implementation of a nonprocedural language 08 p1211 N84-17895
RADC (Rome Air Development Center) DDP (Distributed Data Processing) topology evaluation
[AD-A134701] 08 p1212 N84-17909
Computer networks without a shared memory
AFOSR-81-0197
[AD-A135074] 08 p1215 N84-17927
Abstract automath
[MATH-CENTRE-TRACTS-160] 08 p1217 N84-17938
Princeton VLSI project
[AD-A136552] 09 p1307 N84-18547
Princeton VLSI project
[AD-A136553] 09 p1308 N84-18548
OBJ-1, a study in executable algebraic formal specification
[AD-A136282] 09 p1367 N84-18922
File searching problems in logic programming systems
[AD-A136522] 09 p1367 N84-18923
Research in programming languages and software engineering
[AD-A136037] 09 p1369 N84-18937
Preliminary report on the Larch shared language
[AD-A136117] 09 p1369 N84-18939
Circuit Board Intermediate Language (CBIL): A data base for circuit board description
[IND-FB-110] 09 p1369 N84-18942
VLSI architectures for recognition of context-free languages 09 p1402 N84-19160
Issues in interaction language specification and representation
[AD-A136943] 10 p1555 N84-20188
Dialogue management: New concepts in human-computer interface development
[AD-A136945] 10 p1555 N84-20190
Programming productivity enhancement by the use of application generators
[AD-A137124] 10 p1562 N84-20235
The Pascal Plus (PAP) preprocessor: A precompiler for a language for concurrent processing on a multiprocessor system
[EUT-82-E-130] 10 p1565 N84-20254
Artificial intelligence applied to the command, control, communications and intelligence of the US Central Command
[AD-A137205] 10 p1567 N84-20267
RAMIS DBMS update 11 p1748 N84-21407
Sharing command languages and software 11 p1751 N84-21428
Computer-based conferencing 11 p1752 N84-21435
Reflections on representing non-geometric data 12 p1874 N84-22216
Modeling concepts for communication of geometric shape data 12 p1875 N84-22217
A generator of recursive descent parsers for LL(k) languages
[AD-A138061] 12 p1880 N84-22253
A natural language interface for a PROLOG database
[AD-A138071] 12 p1880 N84-22254
Some links between turtle geometry and analytic geometry
[AD-A138319] 12 p1882 N84-22269
A candidate programming language
[AD-A138433] 12 p1883 N84-22274
RIM as an implementation tool for a distributed heterogeneous database 12 p1890 N84-22311
Documentation of the GLAS fourth order general calculation model. Volume 3: Vectorized code for the Cyber 205
[NASA-TM-86064-VOL-3] 14 p2179 N84-24050
The proof of the SIFT implementation 15 p2387 N84-25317
Hierarchical design and verification for VLSI 15 p2388 N84-25323
Three lectures on theorem-proving and program verification 15 p2388 N84-25324
Dataflow computing approach in high-speed digital simulation
[NASA-CR-173552] 15 p2389 N84-25336
Activities report of the Computer Department
[ENST-D-8303] 16 p2542 N84-26314
Programming language LANAC 2 and implementation for a SISCO MB-8000
[INPE-3090-TDL/163] 16 p2543 N84-26322
On the design of an editor for the B programming language
[MC-IW-248/83] 17 p2754 N84-27484
A relational database system for microcomputers: Analysis, design, implementation and performance evaluation 17 p2771 N84-27598
Parallel programming and the poker programming environment
[AD-A141026] 18 p2921 N84-28523
Reuse in the context of a transformation based methodology
[AD-A141514] 19 p2984 N84-28910
The development of a mathematical foundation for cellular image processing
[AD-A142173] 19 p3042 N84-29301
Digital systems design language. Design synthesis of digital systems
[NASA-CR-162032] 19 p3073 N84-29499
Specification and transformation: Automated implementation
[AD-A141064] 19 p3074 N84-29505
Tools for specification validation and understanding
[AD-A141079] 19 p3074 N84-29506
An informal study of program comprehension
[AD-A142224] 19 p3079 N84-29534
Ada (Registered trademark) training curriculum. Software engineering for managers. M101: Teachers guide
[AD-A142432] 20 p3272 N84-30770
Enhancements to the codata definition language
[DE84-010579] 20 p3274 N84-30783
Selection of a general purpose language and a real-time language suitable for shipboard data system 3
[PB84-180892] 20 p3275 N84-30795
The implementation and use of Ada on distributed systems with high reliability requirements
[NASA-CR-173841] 21 p3463 N84-31954
Implementation of INTERLISP on the VAX
[AD-A141707] 21 p3465 N84-31967
User friendly authoring languages: An alternative approach
[AD-P003461] 21 p3510 N84-32238
Software conversion history of the Flight Dynamics System (FDS)
[NASA-CR-175257] 22 p3539 N84-32404
Programming productivity enhancement by the use of application generators
[AD-A143532] 22 p3640 N84-33060
ADA (trademark) training curriculum. Basic ADA programming I202 teacher's guide, volume 2
[AD-A143585] 22 p3641 N84-33084
East Europe report: Scientific affairs
[JPRS-ESA-84-007] 23 p3728 N84-33828
The development of LANAC/II language for concurrent programming
[INPE-2781-PRE/347] 23 p3813 N84-34180
LISP implementation baseline investigation
[AD-A144244] 24 p3946 N84-34983
Some algebraic properties of the monoid of languages and its applications 24 p3955 N84-35040

PROGRAMS
NT ACEE PROGRAM
NT AGRISTARS PROJECT
NT BRAZILIAN SPACE PROGRAM
NT CANADIAN SPACE PROGRAMS
NT DEFENSE PROGRAM
NT DMSP SATELLITES
NT EARTH RESOURCES PROGRAM
NT EUROPEAN SPACE PROGRAMS
NT FRENCH SPACE PROGRAMS
NT GALILEO PROJECT
NT GLOBAL ATMOSPHERIC RESEARCH PROGRAM
NT JAPANESE SPACE PROGRAM
NT NASA PROGRAMS
NT PROJECT SETI
NT PROJECTS
NT RADIO ATTENUATION MEASUREMENT PROJECT
NT RANGER PROJECT
NT SATURN PROJECT
NT SEASAT PROGRAM
NT SKYLAB PROGRAM
NT SOURCE PROGRAMS
NT SPACE PROGRAMS
NT SUPERSONIC CRUISE AIRCRAFT RESEARCH
NT SURVEYOR PROJECT
NT TACT PROGRAM
NT TERMINAL CONFIGURED VEHICLE PROGRAM
NT TILT ROTOR RESEARCH AIRCRAFT PROGRAM
NT U.S.S.R. SPACE PROGRAM
NT UNIVERSITY PROGRAM
NT VANGUARD PROJECT
NT VOYAGER PROJECT
User's guide for ERB 7 matrix. Volume 1: Experiment description and quality control report for year 1
[NASA-CR-170619] 21 p3464 N84-31960
An evaluating report on the Institute for Computer Sciences and Technology, National Bureau of Standards, fiscal year 1983
[PB84-194802] 21 p3516 N84-32271

PROJECT MANAGEMENT
Microcomputers: A tool for planning and scheduling construction projects
[PB83-211201] 01 p0160 N84-11053
Project manager's guide
[DE83-014454] 02 p0301 N84-11977
Space telescope cost, schedule and performance
[GPO-24-522] 02 p0305 N84-12001
Overview of state-of-the-art flywheel technology 03 p0344 N84-12231
Ris assessment techniques: A handbook for program management personnel
[AD-A131598] 03 p0457 N84-13010
Management of QA in an R and D organization
[DE83-016924] 03 p0458 N84-13014
The use of cyclone modeling in the erection of precast segmental aerial construction
[AD-A132885] 05 p0663 N84-14358

Symposium on Computers in Construction
[CSIR-S-285] 05 p0717 N84-14695
Keeping your fingers crossed won't help
05 p0718 N84-14702
Computer simulation of construction operations
05 p0718 N84-14704
Is critical path planning the answer — computer techniques in project management
05 p0718 N84-14705
Construction planning and control: Current practice and continuing challenges 05 p0718 N84-14706
Project management and quality assurance in a multiapplication environment — software quality
05 p0723 N84-14745
Software engineering techniques employed in on-schedule completion of Meteosat-2 software
05 p0723 N84-14746
The project library PLUS: A general overview
05 p0724 N84-14751
Software production in a large space project: The SPOT mission center 05 p0724 N84-14752
Project management techniques for highly integrated programs
[NASA-TM-86023] 05 p0757 N84-14965
Factors explaining decisions to terminate or continue an R and D project, executive summary
[PB83-256602] 05 p0758 N84-14971
Factors explaining decisions to terminate or continue an R and D project
[PB83-256594] 05 p0758 N84-14972
Advanced automation program. Program master plan
[DOT/FAA/AP-83/3] 06 p0785 N84-15139
Report to Congress on the Automotive Technology Development Program
[DE84-002148] 07 p1012 N84-16566
The dynamics of software development project management: An integrative systems dynamic perspective
[NASA-CR-175342] 07 p1054 N84-16824
Review of materials processing in space, 1983
[GPO-27-914] 08 p1107 N84-17193
An Attached Payload Operations Center (APOC) at the Goddard Space Flight Center (GSFC), volume 2
[NASA-CR-175160-VOL-2] 08 p1108 N84-17203
Design QA on a small batch project
08 p1168 N84-17803
Space Station needs, attributes and architectural options, volume 2, book 3: Cost and programmatics
[NASA-CR-173320] 09 p1271 N84-18304
Spaceborne Gravity Gradiometers. Part 5: Development plan 09 p1336 N84-18721
Automated storage and retrieval systems--a consolidation of guidance for project management and implementation
[AD-A135571] 09 p1404 N84-19175
With a view to their practical solution: Sixty years with NACA and NASA, 1915 - 1976
[NASA-TM-85555] 09 p1418 N84-19277
LANDSAT-4 status 10 p1523 N84-19973
Computer generation of plan of action and milestone schedule
[AD-A137057] 10 p1564 N84-20244
Requirements analysis for forward funding tracking system, volume 1
[AD-A136840] 10 p1591 N84-20425
An Attached Payload Operations Center (APOC) at the Goddard Space Flight Center (GSFC), volume 1
[NASA-CR-175160] 11 p1620 N84-20605
NASA's emerging productivity program
11 p1748 N84-21404
Action Information Management System (AIMS): A user's view 11 p1748 N84-21405
DBMS as a tool for project management
11 p1749 N84-21416
Solid fuel combustion chamber
[VTH-LR-392] 12 p1803 N84-21756
Performance monitoring of active solar energy systems
[DE84-000027] 12 p1844 N84-22022
Active Program Research Requirements (APRR), volume 1
[DE84-002141] 12 p1921 N84-22513
Definition of technology development missions for early space stations. Large space structures, phase 2, midterm review
[NASA-CR-171004] 13 p1939 N84-22807
Space Station Systems Technology Study. Volume 3: Technology and Advancement Program Plan
[NASA-CR-171016] 13 p1940 N84-22613
World Weather Watch: The plan and implementation program, 1984-1987
[WMO-617] 13 p2017 N84-23078
Monitoring software development through dynamic variables 13 p2027 N84-23139
Managers handbook for software development
[NASA-TM-85604] 13 p2028 N84-23150
Managing for success in defense systems acquisition
[AD-P002789] 13 p2056 N84-23336
Project management: Evolution and influence
[AD-P002824] 13 p2061 N84-23369
Improving the effectiveness of award fee contracts for program management support services
[AD-P002827] 13 p2062 N84-23372
USSR report: Science and technology policy
[JPRS-UST-84-004] 13 p2064 N84-23387
Assessment of the NASA Flight Assurance Review Program
[NASA-CR-173418] 13 p2066 N84-23401
Advanced Platform Systems Technology study. Volume 4: Technology advancement program plan
[NASA-CR-173524] 14 p2115 N84-23674
Providing R and D (Research and Development) test fuels from alternate energy sources: An assessment of options
[NASA-CR-173427] 14 p2133 N84-23783
Reliability in space: Program manager and user awareness
[AD-P002148] 14 p2137 N84-23813
The Consolidated Space Operations Center (CSOC) communications acquisition
[AD-P002154] 14 p2138 N84-23819
The United States Air Force graduate student summer support program, 1983. Management report
[AD-A139363] 14 p2245 N84-24483
Profitability improvement of projects by early consideration of life cycle cost reduction
[MBB-UR-620-83-O] 14 p2247 N84-24495
Transfer of civil meteorological satellites
[S-REPT-98-260] 14 p2248 N84-24503
Quality control in large systems development phase
[SNIAS-832-422-102] 15 p2346 N84-25074
Second-generation Meteosat: System study, executive summary
[ESA-SP-1063] 15 p2371 N84-25224
Projects and programs as a reflection of the performances of engineers in aircraft making by Hans-Wocke
[MBB-UT-24-83-O] 16 p2433 N84-25608
Living and working in space. A history of Skylab
[NASA-SP-4208] 16 p2454 N84-25737
Optimization methods in hierarchical holographic modeling 16 p2494 N84-26001
Product assurance management and audit systems for ESA spacecraft and associated equipment
[ESA-PSS-01-10-ISSUE-1] 16 p2499 N84-26035
Space systems environmental interactions technology program
[AD-P002125] 16 p2525 N84-26211
Project management in the 80's
[MBB-UR-631-83-O] 16 p2564 N84-26454
Preliminary program manager's guide to Ada
[AD-A140347] 16 p2565 N84-26457
Railroad safety program, task 2
[NASA-CR-173598] 16 p2569 N84-26483
AN/TPN-19 improvements program management plan
[AD-A140728] 17 p2605 N84-26690
Microcomputers: Introduction to features and uses
[PB84-178821] 17 p2750 N84-27456
Comparing software development methodologies for Ada (trade name): A study plan
[PB84-178029] 17 p2755 N84-27491
An analysis of the implementation plan for the conversion from the T-37 to the T-46 aircraft in undergraduate pilot training
[AD-A141199] 18 p2793 N84-27726
Interplanetary mission design handbook. Volume 1, part 1: Earth to Venus ballistic mission opportunities, 1991-2005
[NASA-CR-173736] 18 p2801 N84-27779
Space station needs, attributes and architectural options. Volume 3, task 1: Mission requirements
[NASA-CR-173712] 18 p2806 N84-27811
Space station needs, attributes and architectural options. Volume 3, attachment 1, task 1: Mission requirements
[NASA-CR-173716] 18 p2806 N84-27812
Space station needs, attributes and architectural options. Volume 4, task 2 and 3: Mission implementation and cost
[NASA-CR-173715] 18 p2806 N84-27813
Space station needs, attributes and architectural options: Study summary
[NASA-CR-173692] 18 p2806 N84-27814
Space station needs, attributes and architectural options: Mission requirements
[NASA-CR-173691] 18 p2806 N84-27817
National Aerospace Laboratory, 1982
19 p2969 N84-28813
Advanced composite stabilizer for Boeing 737 aircraft
[NASA-CR-157639] 19 p2985 N84-28915
Salyut: Soviet steps toward permanent human presence in space
[PB84-181437] 20 p3135 N84-29905
The LANDSAT-4 program: An overview
20 p3205 N84-30360
Status of the ESA-Earthnet LANDSAT-4 TM ground processing chain 20 p3210 N84-30391
Stronger direction needed for the National Earthquake Program
[GAO/RCED-83-103] 20 p3240 N84-30570
Program for Regional Observing and Forecasting Services (PROFS)
[PB84-179928] 20 p3248 N84-30618
Guideline for computer security certification and accreditation. Category: ADP (Automatic Data Processing) operations. Subcategory: Computer security. Federal information processing standards
[FIPS-PUB-102] 20 p3268 N84-30736
Appropriate Technology Small Grants Program evaluation, volume 1: Executive summary
[DE84-010675] 20 p3313 N84-31038
Appropriate technology management information system
[DE84-010952] 20 p3315 N84-31056
National Airspace Review: Implementation plan
[AD-A145379] 21 p3327 N84-31107
Cost/schedule management for software development
[AD-P003591] 21 p3341 N84-31196
Reverse engineering of the multiple launch rocket system. Human factors, manpower, personnel, and training in the weapons system acquisition process
[AD-A142849] 21 p3349 N84-31247
DMA (Defense Mapping Agency): The digital revolution
[AD-A142787] 21 p3431 N84-31767
Introduction to Meteorological Satellite Center of Japan Meteorological Agency 21 p3446 N84-31864
Managing a low quantity, high technology trainer development program
[AD-P003464] 21 p3511 N84-32241
The Electric Vehicle Project
[DE84-011788] 21 p3522 N84-32309
Satellite activities of NOAA, 1983
22 p3540 N84-32408
Module utilization committee
[NASA-CR-173898] 22 p3617 N84-32920
National environmental monitoring
[GPO-28-186] 22 p3619 N84-32933
Administrative automation in a scientific environment
22 p3671 N84-33269
Oversight on the Federal Aviation Administration fiscal year 1985 research, engineering and development budget request
[GPO-34-924] 22 p3676 N84-33302
National Aeronautics and Space Administration Authorization Act, 1985
[PUB-LAW-98-361] 22 p3676 N84-33303
Space station program description document. Books 1-7
[NASA-TM-86652-BK-1-7] 23 p3698 N84-33437
Space station program description document: Introduction and summary, book 1
[NAS 1.15:86652-BK-1] 23 p3698 N84-33438
Program plan, book 7
[NAS 1.15:86652-BK-7] 23 p3699 N84-33443
Difficulties of scientific and technological planning
[INPE-2786-PRE/352] 23 p3832 N84-34308
DTIC 2000: A corporate plan for the future
[AD-A143900] 23 p3835 N84-34327
Decision-making process in management automation
24 p3892 N84-34644

PROJECT PLANNING

Spacelab: An international short-stay orbiting laboratory
[NASA-EP-165] 01 p0027 N84-10172
Proposed plan for joint research program between Japan, the USA and Canada concerning gas toxicity in fires 04 p0514 N84-13378
Construction planning and control: Current practice and continuing challenges 05 p0718 N84-14706
Two-level compromise designs for estimating main effects and detecting interactions
[DE84-002997] 08 p1238 N84-18094
The Army study program fiscal year 1984 report, volume 1
[AD-A136213] 09 p1398 N84-19130
The Army study program fiscal year 1984 report, volume 2
[AD-A136214] 09 p1398 N84-19131
Design of a project plan for the establishment of a lunar factory
[ILR-MITT-123] 10 p1435 N84-19379

Arctic Terrestrial Environmental Research Programs of the Office of Energy Research, Department of Energy: Evaluations and recommendations. Appendix B: Components of an Arctic Terrestrial Environmental Research Program
[PB84-129766] 11 p1672 N84-20913
Tethers in space: Birth and growth of a new avenue to space utilization
[NASA-TM-82571] 12 p1779 N84-21607
R and D decision methods for photovoltaic program planning
[DE84-000011] 12 p1918 N84-22494
World Weather Watch: The plan and implementation program, 1964-1967
[WMO-617] 13 p2017 N84-23078
Managers handbook for software development
[NASA-TM-85604] 13 p2028 N84-23150
Corporate DP planning: New approaches and new concerns — data processing (DP)
[PNR-90180] 13 p2064 N84-23386
Incentives for new production discussed 13 p2064 N84-23388
Technical and economic indicators for industrial technological institutes 13 p2065 N84-23392
V/STOL wind-tunnel testing 16 p2437 N84-25633
Optimization methods in hierarchical holographic modeling 16 p2494 N84-26001
Spaceborne sensors (1983-2000 AD): A forecast of technology
[NASA-TM-86083] 17 p2616 N84-26743
Interplanetary mission design handbook. Volume 1, part 1: Earth to Venus ballistic mission opportunities, 1991-2005
[NASA-CR-173736] 18 p2801 N84-27779
A study of space station needs, attributes and architectural options. Final briefing: Cost working group discussion session
[NASA-CR-173713] 18 p2806 N84-27810
Use of radar in the pilot project 18 p2887 N84-28323
Program master plan
[AD-A141554] 19 p3005 N84-29049
Space station 19 p3049 N84-29344
Federal Aviation Administration's system for prioritizing airport grants
[PB84-181650] 20 p3133 N84-29693
The LANDSAT-4 program: An overview 20 p3205 N84-30360
Implementation strategy 20 p3219 N84-30453
Space Station Systems Analysis Study. Volume 2: Program options, book 1, parts 1 and 2
[NASA-CR-161927] 21 p3352 N84-31265
Rationale for US DOE energy storage program in hydrogen technology
[DE84-010225] 21 p3374 N84-31411
Global Observations and Understanding of the General Circulation of the Oceans
[NASA-CR-173905] 22 p3627 N84-32986
Program plan, book 7
[NAS 1.15:86652-BK-7] 23 p3699 N84-33443
USSR report: Machine tools and metalworking equipment
[JPRS-UMM-84-016] 23 p3728 N84-33623
Computer-based measurement of intellectual capabilities
[AD-A144065] 23 p3810 N84-34162
Difficulties of scientific and technological planning
[INPE-2786-PRE/352] 23 p3832 N84-34308

PROJECT SETI

SETI investigations at Jodrell Bank, England: September through November 1983 10 p1476 N84-19639
SETI science working group report
[NASA-TP-2244] 12 p1869 N84-22178
The telecommunications and data acquisition report
[NASA-CR-173565] 16 p2478 N84-25889
Note on the optimum search strategy for uniformly distributed CW transmitters — implications for Project Seti 16 p2480 N84-25904
An investigation of the effects of scan separation on the sensitivity of the SETI all sky survey for the case of Gaussian noise 16 p2480 N84-25905

PROJECTILE CRATERING

Bending of beams subjected to transverse impacts
[MRL-R-886] 05 p0692 N84-14544
The planet crossing asteroid survey: Progress in the analysis of populations and terrestrial-planet cratering rates 13 p2075 N84-23449
Recent comet impacts on the moon: The evidence from spectral reflectance studies 13 p2076 N84-23453
Martian crater size distributions and terrain age 13 p2077 N84-23462

PROJECTILE PENETRATION

U TERMINAL BALLISTICS

PROJECTILES

NT SABOT PROJECTILES

Numerical computation of base flow for a projectile at transonic speeds
[AD-A130293] 01 p0004 N84-10027
A theoretical and experimental investigation of a transonic projectile flow field
[AD-A131938] 03 p0320 N84-12094
Some aerodynamic characteristics of a projectile shape with a nonaxisymmetric boattail at Mach numbers of 0.91 and 3.02
[AD-A133755] 05 p0627 N84-14125
Boundary-layer trip effectiveness and computations of aerodynamic heating for XM797 nose-tip configurations
[AD-A128036] 07 p0947 N84-16148
Assessment of real gas effects on the prediction of the aerodynamics of high velocity Army shells
[AD-A134739] 08 p1099 N84-17150
Navier-Stokes computations of projectile base flow at transonic speeds with and without base injection
[AD-A135783] 09 p1252 N84-18176
Wind tunnel tests on a nonaxisymmetric projectile shape at Mach numbers 2.5 to 6.0
[AD-A135784] 09 p1253 N84-18177
Linearised optimal control and application to a gliding projectile
[AD-A135605] 09 p1271 N84-18305
Numerical investigation of the aerodynamics and stability of a flared afterbody for axisymmetric projectiles at supersonic speeds
[AD-A136826] 10 p1420 N84-19289
Computation of viscous flow about advanced projectiles
[AD-A137935] 11 p1653 N84-20790
Further analysis of yawsonde data from some liquid payload projectiles
[AD-A137256] 11 p1653 N84-20791
Numerical solution for a spinning, nutating, fluid-filled cylinder
[DE84-005878] 11 p1654 N84-20799
Investigation of aerodynamics of non axisymmetric projectiles
[AD-A139107] 14 p2101 N84-23609
Flight data on liquid-filled shell for spin-up instabilities
[AD-A139136] 14 p2101 N84-23610
Three dimensional stress analysis of an artillery projectile joint
[AD-P002955] 14 p2199 N84-24195
Base blend projectiles: Range calculation program and efficiency comparisons
[FOA-C-20516-D2] 15 p2280 N84-24695
A numerical study of shock initiation of composition-b by high-speed impact of small steel projectiles
[AD-A139629] 15 p2303 N84-24821
Treatment of the discontinuity in the spin-up problem with impulsive start
[AD-A133682] 16 p2485 N84-25940
Modification of the eta-invariant code for application of a modular grid network
[AD-A135817] 16 p2547 N84-26347
Comparison of bullet resistance of new and aged polycarbonate
[AD-P003198] 17 p2592 N84-26611
A three-degree-of-freedom flight simulator for spin-stabilized projectiles
[AD-A140657] 17 p2610 N84-26709
A relationship between liquid roll moment and liquid side moment
[AD-A140658] 17 p2668 N84-27011
Base pressure measurements on a projectile shape at Mach numbers from 0.91 to 1.20
[AD-A141341] 18 p2789 N84-27699
Order of functioning
[AD-A141851] 19 p3001 N84-29022
An explanation of spin-up instabilities for a 155mm binary projectile
[AD-A141534] 19 p3023 N84-29173
Aerodynamic heating computations for projectiles. Volume 1: In-depth heat conduction modifications to the ABRES shape change code (BRLASCC)
[AD-A143252] 22 p3531 N84-32359
Aerodynamic heating computations for projectiles. Volume 2: Swept wing calculations using the planar version of the ABRES shape change code (PLNRASCC)
[AD-A143253] 22 p3532 N84-32360
Aerodynamic heating computations for projectiles. Volume 3: BRL interactive plotting program (BRLINPLOT)
[AD-A143254] 22 p3532 N84-32361
Research and development of a plasma jet mass accelerator as a driver for impact fusion
[DE84-012940] 22 p3659 N84-33198

PROJECTIVE GEOMETRY

NT MERCATOR PROJECTION

An extremum principle for shape from contour
[AD-A131321] 02 p0272 N84-11780
Use of 3D graphics in scientific data analysis
[DE84-000911] 06 p0898 N84-15831

On nonlinear systems and algebraic geometry
[RR-240] 13 p2034 N84-23196
Infinitesimal deformation of locally symmetrical Riemann spaces. 2: Blaschke's infinitesimal conjecture for complex projective space 22 p3636 N84-33049

PROJECTORS

A wide field-of-view CRT projection system with optical feedback for self alignment
[AD-P003447] 21 p3508 N84-32224

PROJECTS

NT AGRISTARS PROJECT
NT GALILEO PROJECT
NT PROJECT SETI
NT RADIO ATTENUATION MEASUREMENT PROJECT
NT RANGER PROJECT
NT SATURN PROJECT
NT SURVEYOR PROJECT
NT VANGUARD PROJECT
NT VOYAGER PROJECT

Attenuation data bank in the project COST 205: Generation, control, and preliminary analysis — rain attenuation, microwaves
[FUB-2-1983] 10 p1483 N84-19683

PROLATE SPHEROIDS

Separation and vortical-type flow around a prolate spheroid: Evaluation of relevant parameters 03 p0323 N84-12113
Unsteady boundary layers on thin bodies of revolution
[AD-A136257] 09 p1313 N84-18583
The discrete prolate spheroidal filter as a digital signal processing tool 17 p2696 N84-27174

PROOFS

U PROVING

PROP-FAN TECHNOLOGY

Technology and benefits of aircraft counter rotation propellers
[NASA-CR-168258] 04 p0485 N84-13186
An analysis of prop-fan/airframe aerodynamic integration
[NASA-CR-152186] 10 p1419 N84-19281
Renovation of the Helice
[SNIAS-832-111-109] 16 p2448 N84-25703
Comparison of a propfan/turbofan engine by thermodynamic cycle calculation
[ESA-TT-820] 16 p2450 N84-25715
Analytical model of the structureborne interior noise induced by a propeller wake
[NASA-CR-172381] 21 p3490 N84-32119

PROPAGATION

Beam propagation experimental study
[AD-A133310] 06 p0915 N84-15946
A semianalytic method of orbital propagation for mission analysis
[INPE-2748-PRE/324] 10 p1435 N84-19380
Investigation of short-pulse electron-beam propagation
[AD-A140383] 16 p2556 N84-26396

PROPAGATION (EXTENSION)

NT CRACK PROPAGATION
NT FLAME PROPAGATION

Channel cooling by turbulent convective mixing
[AD-A139724] 15 p2410 N84-25466

PROPAGATION MODES

Research and development of subsurface acoustic wave device configurations for sensor applications
[AD-A133659] 05 p0742 N84-14877
Statistical data on anomalous propagation in the Tyrrhenian Sea using an X-band link 06 p0871 N84-15668
A long range propagation experiment to investigate the incidence of anomalous propagation in the north Atlantic 06 p0871 N84-15669
Passive remote sensing of ocean optical propagation parameters 06 p0872 N84-15673
Far field radiation patterns from open ended oversized circular waveguides and identification of multimode outputs of gyrotrons
[IPF-83-5] 12 p1911 N84-22454
Characteristics of the Lower Atmosphere Influencing Radio Wave Propagation
[AGARD-CP-346] 15 p2322 N84-24943
Handbook - H8: Description of services 15 p2367 N84-25202
Contributions to the theory of sound propagation in ducts with bulk-reacting lining
[NLR-MP-83064-U] 17 p2763 N84-27551
Wave attenuation and mode dispersion in a waveguide coated with lossy dielectric material
[NASA-CR-173820] 20 p3172 N84-30145

PROPAGATION VELOCITY

Inverse torsional Eigenvalue problems — reconstruct the S-wave velocity of the Earth
[DE84-002568] 05 p0704 N84-14621
Velocities of guided ultrasonic waves in heterogeneous medium
[NASA-TM-77445] 14 p2221 N84-24325

Modeling anisotropic properties of media with oriented fractures 17 p2706 N84-27234
The shear wave velocity structure of the lithosphere in central and northern California 23 p3795 N84-34063

PROPAGATORS
U PROPAGATION

PROPANE
Ignition delay times of propane oxygen argon mixtures [AD-A130464] 01 p0037 N84-10232
Synthesis of perfluoroalkylene dianilines [NASA-CR-168004] 02 p0189 N84-11228
Thermal and hydraulic performance of a sieve-tray direct-contact heat exchanger [DE84-000663] 04 p0537 N84-13531
Heat and mass transfer during the growth and dissociation of gas hydrates in porous media [PB83-255414] 05 p0682 N84-14482
Synthesis of energetic prepolymers [AD-A135770] 09 p1288 N84-18409
The role of surface generated radicals in catalytic combustion 11 p1613 N84-20555
Spontaneous ignition characteristics of gaseous hydrocarbon-air mixtures 11 p1613 N84-20557
Experimental study and modeling of the kinetics of hydrocarbon combustion 15 p2292 N84-24754

PROPARGYL GROUPS
Thermoset-thermoplastic aromatic polyamide containing N-propargyl groups [NASA-CASE-LAR-12723-2] 13 p1962 N84-22746

PROPELLANT ADDITIVES
NT PROPELLANT BINDERS
NT SOLID ROCKET BINDERS

PROPELLANT BINDERS
NT SOLID ROCKET BINDERS
Nitrate ester polyether glycol prepolymers 20 p3142 N84-29947
3,5,5-trinitro-3-azaheptane-1,7-diol and a method of synthesis [AD-D011132] 22 p3562 N84-32555

PROPELLANT CASTING
Low cost manufacturing of tactical rocket motors 20 p3143 N84-29959

PROPELLANT CHEMISTRY
Modeling effects of composition on the burn rates of nitrate ester-based energetic binders 13 p1951 N84-22685

PROPELLANT COMBUSTION
NT SOLID PROPELLANT COMBUSTION
NT SOLID PROPELLANT IGNITION
A comment on the plateau combustion mechanism of the double-base propellants [AD-A132551] 04 p0509 N84-13333
Droplet decomposition in a reactive atmosphere: Complete responses for large activation energies [AD-A132840] 05 p0650 N84-14273
Behavior of aluminum on the burning surface of a solid propellant 05 p0662 N84-14351
The 20th JANNAF Combustion Meeting, volume 1 [AD-A138033] 13 p1943 N84-22632
Theoretical calculation of H/sub 2 S- and Q-branch spectra for propellant flames 13 p1943 N84-22636
Neutron radiographic study of liquid propellant combustion 13 p1949 N84-22669
Liquid propellant ignition studies 13 p1949 N84-22670
Effect of O2 on double-base propellant ignition 13 p1949 N84-22673
The two-slab burning problem [AD-A139618] 15 p2287 N84-24719
Laser probes of propellant combustion chemistry [AD-A140767] 17 p2628 N84-26814
Free radical detection and dynamics in propellant ignition and combustion systems [AD-A142180] 19 p3002 N84-29023
Combustion of redox mixes in the Through Bulkhead Initiator (TBI) configuration [SNIAS-841-422-115] 21 p3363 N84-31332
Expendable infrared source and method therefor [AD-D011112] 22 p3561 N84-32551
Deflagration to shock to detonation transition of energetic propellants [AD-A144469] 24 p3890 N84-34632

PROPELLANT DECOMPOSITION
Droplet decomposition in a reactive atmosphere: Complete responses for large activation energies [AD-A132840] 05 p0650 N84-14273
Decomposition of four ammonium nitrate propellants [AD-A136916] 10 p1470 N84-19601
Free radical detection and dynamics in propellant ignition and combustion systems [AD-A142180] 19 p3002 N84-29023
Combustion of GAP, part 1 20 p3142 N84-29952

PROPELLANT EXPLOSIONS
A summary of the mechanisms of delayed detonation 13 p1947 N84-22658

PROPELLANT GRAINS
Acoustic and photoelectric burnout detection of T-burner grains 13 p1946 N84-22650
Thixotropic flame inhibitors for rocket propellant grains [AD-D011081] 21 p3373 N84-31408
Acta armamentarii (selected articles) [AD-A143904] 23 p3726 N84-33610
T-motor tests with cylindrical grains [AD-A143814] 24 p3866 N84-34503

PROPELLANT OXIDIZERS
U ROCKET OXIDIZERS

PROPELLANT PROPERTIES
NT PROPELLANT SENSITIVITY
Nonlinear burning stability of solid propellants [AD-A143573] 22 p3562 N84-32554

PROPELLANT SENSITIVITY
Ignitibility studies of LOVA propellants — low vulnerability gun propellants 13 p1950 N84-22678

PROPELLANT SPRAYS
An experimental and analytical study on spray flow field by liquid/gas coaxial injector elements. 3: Application for the combustion performance prediction model of LO2/LH2 rocket combustion [NAL-TR-769] 09 p1274 N84-18317

PROPELLANT STORAGE
Shuttle interaction study extension [NASA-CR-173398] 12 p1777 N84-21594
Space station propulsion analysis study [NASA-TM-83715] 16 p2459 N84-25764
Advanced onboard storage concepts for natural gas-fueled automotive vehicles [NASA-CR-174655] 23 p3790 N84-34036

PROPELLANT TANKS
Space Shuttle external interference heating test [AD-A131688] 03 p0341 N84-12215
Evaluation of propellant tank insulation concepts for low-thrust chemical propulsion systems: Executive summary [NASA-CR-168321] 11 p1636 N84-20699
Modeling of zero gravity venting [NASA-CR-173503] 14 p2145 N84-23854
Penn State Get Away Special 18 p2799 N84-27759
Design and development of Shuttle Get-Away-Special experiment G-0074 — off-load capability for a full-tank propellant acquisition system 18 p2800 N84-27770
Space Shuttle with rail system and aft thrust structure securing solid rocket boosters to external tank [NASA-CASE-MFS-25853-1] 18 p2802 N84-27784
Three stage rocket vehicle with parallel staging [NASA-CASE-MFS-25878-1] 18 p2803 N84-27787
The compatibility of MON-3 and 301 cryoformed stainless steel 20 p3138 N84-29924
Space Shuttle reaction control subsystem propellant tank masked screen test 24 p3862 N84-34477

PROPELLANT TESTS
Investigation of pulsed performance of an electrothermal hydrazine thruster, using a special see-through thruster [AD-A137408] 10 p1451 N84-19473
Combustion of high-aluminum-content propellants 13 p1947 N84-22661
Slotted stick propellant study 13 p1948 N84-22664
Closed vessel combustion studies of stick propellant 13 p1948 N84-22665
Flash X-ray with image enhancement applied to combustion events 13 p1948 N84-22666
Multiphase flow analysis of the ballistic performance of an anomalous LOVA propellant mix 13 p1950 N84-22679

PROPELLANT TRANSFER
Satellite services system analysis study: Propellant transfer system [NASA-CR-174573] 02 p0183 N84-11189
Measurements of hypergolic fuels' and oxidants' permeation through commercial protective materials: Part 1. Inhibited red fuming nitric acid and unsymmetrical dimethylhydrazine [AD-A134714] 08 p1139 N84-17411
Three stage rocket vehicle with parallel staging [NASA-CASE-MFS-25878-1] 18 p2803 N84-27787
Refueling considerations for liquid-hydrogen fueled vehicles [DE84-012623] 22 p3562 N84-32557

PROPELLANTS
NT COMPOSITE PROPELLANTS
NT CRYOGENIC ROCKET PROPELLANTS
NT DOUBLE BASE PROPELLANTS
NT DOUBLE BASE ROCKET PROPELLANTS
NT GUN PROPELLANTS
NT HTPB PROPELLANTS
NT HYPERGOLIC ROCKET PROPELLANTS
NT LIQUID ROCKET PROPELLANTS
NT METAL PROPELLANTS
NT MONOPROPELLANTS
NT NITRAMINE PROPELLANTS
NT PLASTIC PROPELLANTS
NT RDX
NT ROCKET PROPELLANTS
NT SLURRY PROPELLANTS
NT SOLID PROPELLANTS
NT SOLID ROCKET PROPELLANTS
NT TATB
Replacement of PBNA in HB and HC polymers used in SRM propellant and liner [NASA-CR-170936] 03 p0355 N84-12311
Shock tube study of the ignition and combustion of aluminum [AD-A134035] 05 p0661 N84-14345
Computer simulation of two-dimensional impact tests on propellant [DE84-002460] 07 p0981 N84-16356
Frictional hot-spots and statistical crack mechanics [DE84-003784] 09 p1290 N84-18423
A review of in situ propellant production techniques for solar system exploration [NASA-CR-173494] 13 p1936 N84-22595
Status of ammonium nitrate in propellants and explosives 13 p1946 N84-22655
Theoretical calculations of H(2) CARS spectra for propellant flames [AD-A135818] 17 p2619 N84-26758
Nitrate ester polyether glycol prepolymers 20 p3142 N84-29947
Laser induced nitrations of some aliphatic hydrocarbon compounds 21 p3373 N84-31404
The structural chemistry of energetic compounds [AD-A143955] 23 p3822 N84-34237

PROPELLER BLADES
Model helicopter rotor high-speed impulsive noise: Measured acoustics and blade pressures [NASA-TM-85850] 01 p0003 N84-10020
The compressible aerodynamics of rotating blades based on an acoustic formulation [NASA-TP-2197] 04 p0594 N84-13923
Noise of the SR-6 propeller model at 2 deg and 4 deg angles of attack [NASA-TM-83515] 07 p1069 N84-16946
Mechanical ice release processes. Part 1: Self-shedding from high-speed rotors [AD-A135369] 09 p1256 N84-18198
A comparison of measured take-off and flyover sound levels for several general aviation propeller-driven aircraft [AD-A139901] 15 p2404 N84-25429
Application of an optimization method to high performance propeller designs [NASA-TM-83710] 16 p2433 N84-25607
Development of improved LACV-30 propeller blade coatings for protection against sand and rain erosion and marine environment corrosion [AD-A132999] 18 p2821 N84-27914
Active attenuation of propeller blade passage noise [NASA-CR-172386] 20 p3290 N84-30886
Nonlinear displacement analysis of advanced propeller structures using NASTRAN [NASA-TM-83737] 21 p3419 N84-31683
Annoyance caused by propeller airplane flyover noise [NASA-TP-2356] 21 p3491 N84-32124
Analysis of three-dimensional transonic compressors [NASA-CR-166580] 22 p3531 N84-32356
Application of stiffened cylinder analysis to ATP interior noise studies [NASA-CR-172384] 22 p3652 N84-33147

PROPELLER DRIVE
NT HELICOPTER PROPELLER DRIVE
An investigation of a new flight test method for measuring the performance of general aviation aircraft 22 p3534 N84-32375

PROPELLER EFFICIENCY
Noise generated by a propeller in a wake [NASA-TM-85794] 16 p2553 N84-26382

PROPELLER FANS
Propeller noise at subsonic blade tip speeds, torque and thrust force [ESA-TT-821] 16 p2554 N84-26385

PROPELLER SLIPSTREAMS
A modified lifting line theory for wing-propeller interference [NASA-CR-173324] 09 p1252 N84-18171
Analytical model of the structureborne interior noise induced by a propeller wake [NASA-CR-172381] 21 p3490 N84-32119

PROPELLERS
NT PROPELLER FANS
NT SHROUDED PROPELLERS
Aeroelastic design considerations for turboprop powerplant installations 02 p0171 N84-11123
Forced vibration analysis of rotating cyclic structures in NASTRAN [NASA-CR-165429] 02 p0231 N84-11514

Aeroelastic analysis for propellers - mathematical formulations and program user's manual
[NASA-CR-3729] 03 p0388 N84-12530
Power effects on the longitudinal characteristics on single-engine propeller-driven aircraft
[ARL-AERO-REPT-157] 04 p0483 N84-13174
Technology and benefits of aircraft counter rotation propellers
[NASA-CR-168258] 04 p0485 N84-13186
La Recherche Aerospatiale, Bimonthly Bulletin, no. 1982-3, 208/May-June 1982
[ESA-TT-771] 04 p0593 N84-13916
A possible explanation for the present difference between linear noise theory and experimental data for supersonic helical tip speed propellers
[NASA-TM-83467] 05 p0742 N84-14874
Research towards and development of aerospace vehicle noise certification with emphasis on propeller aircraft and helicopters 06 p0767 N84-15026
NASTRAN documentation for flutter analysis of advanced turbopropellers
[NASA-CR-167927] 06 p0790 N84-15153
Noise levels and data analyses for small prop-driven aircraft
[AD-A134598] 07 p0952 N84-16175
Determination of the static performance of a Cuyuna cc model UL-430RR engine
[NASA-CR-175354] 07 p0953 N84-16179
Reduction of propeller noise by a reflecting rubber layer — ship propellers
[FOA-C-20506-E4] 08 p1228 N84-18025
Wingtip vortex propeller
[NASA-CASE-LAR-13019-1] 11 p1602 N84-20495
Installation noise measurements of model SR and CR propellers
[NASA-TM-85790] 15 p2403 N84-25425
An advanced pitch change mechanism incorporating a hybrid traction drive
[NASA-TM-83709] 16 p2433 N84-25605
Application of an optimization method to high performance propeller designs
[NASA-TM-83710] 16 p2433 N84-25607
Renovation of the Helice
[SNIAS-832-111-109] 16 p2448 N84-25703
Noise generated by a propeller in a wake
[NASA-TM-85794] 16 p2553 N84-26382
Contribution to the study of light aircraft propeller noise
[AD-B073101] 16 p2554 N84-26386
Advanced aerodynamics. Selected NASA research
[NASA-CP-2208] 18 p2783 N84-27660
Acoustic flight testing of advanced design propellers on a JetStar aircraft 18 p2783 N84-27661
Heads up display
[NASA-CASE-LAR-12630-1] 18 p2795 N84-27733
Summary of recent NASA propeller research
[NASA-TM-83733] 22 p3529 N84-32344
Refined methods of aeroelastic analysis and optimization — swept wings, propeller theory, and subsonic flutter
[NASA-CR-173967] 23 p3760 N84-33835
An experimental investigation of the effect of boundary layer refraction on the noise from a high-speed propeller
[NASA-TM-83764] 23 p3821 N84-34230

PROPHYLAXIS

Electrosleep in prophylaxis of psychoneural stress and recovery of mental performance in operators
18 p2895 N84-28367

PROPORTION

Center of Excellence for Applied Mathematical and Statistical Research in support of development of multicrop production monitoring capability
[E84-10062] 10 p1520 N84-19953

PROPORTIONAL CONTROL

Suboptimal missile evasion through a sensitivity analysis of proportional guidance to target evasion maneuvers
[AD-A136803] 10 p1428 N84-19338
An open loop missile evasion algorithm for fighters
[AD-A136834] 10 p1428 N84-19339

PROPORTIONAL COUNTERS

The development of an imaging gas scintillation proportional counter for use in X-ray astronomy
04 p0618 N84-14079
New-generation low-power radiation survey instruments
[DE84-001716] 05 p0685 N84-14506
The performance of 16000 wire mini-drift MWPC system 06 p0912 N84-15922
High accuracy gaseous X-ray detectors
[DE84-003677] 07 p1008 N84-16538

PROPRIOCEPTION

Proprioception — prosthetic devices
20 p3264 N84-30714
Study of spatial asymmetry in human external electrical field 21 p3456 N84-31932
Psychophysics of proprioceptive sensibility
21 p3456 N84-31933

PROPULSION

NT AUXILIARY PROPULSION
NT CHEMICAL PROPULSION
NT ELECTRIC PROPULSION
NT ELECTROMAGNETIC PROPULSION
NT HYBRID PROPULSION
NT ION PROPULSION
NT JET PROPULSION
NT LASER PROPULSION
NT MAN OPERATED PROPULSION SYSTEMS
NT MARINE PROPULSION
NT NUCLEAR ELECTRIC PROPULSION
NT PLASMA PROPULSION
NT SOLAR ELECTRIC PROPULSION
NT SOLAR PROPULSION
NT SOLAR THERMAL PROPULSION
NT SPACECRAFT PROPULSION
NT UNDERWATER PROPULSION

Aeronautics Research and Technology Program and specific objectives, fiscal year 1982
[NASA-TM-85474] 01 p0002 N84-10011
A laser-fusion rocket for interplanetary propulsion
[DE84-001238] 04 p0490 N84-13219
AGARD bulletin: Meetings, publications, membership
[AGARD-BUL-84/1] 14 p2252 N84-24527
The 1984 JANNAF Propulsion Meeting, volume 2
[AD-A143025] 20 p3140 N84-29939
Report of the working group on large-scale computing in aeronautics
[AGARD-AR-209] 23 p3813 N84-34177
Viking orbiter and its Mariner inheritance
24 p3991 N84-35254

PROPULSION SYSTEM CONFIGURATIONS

Effects of Nacelle configuration/position on performance of subsonic transport
[NASA-CR-3743] 02 p0174 N84-11144
Investigation of wave rotor turbofans for Cruise Missile engines, volume 1
[AD-A131167] 02 p0180 N84-11174
Summary of the inaugural meeting of the Chinese Society of Astronautics Special Committee for Solid Rocket Propulsion and its first academic conference
[AD-A129342] 02 p0183 N84-11190
AFWAL FY82 technical accomplishments
[AD-A131839] 03 p0315 N84-12054
Space Shuttle propulsion parameter estimation using optimal estimation techniques, volume 1
[NASA-CR-170935] 03 p0341 N84-12213
Alternate propulsion energy sources
[AD-A131939] 03 p0346 N84-12249
Some thoughts concerning large load-carrying vehicles
[NASA-TM-85701] 04 p0477 N84-13139
Thrust-induced effects on subsonic longitudinal aerodynamic characteristics of a vectored-engine-over-wing configuration
[NASA-TP-2228] 04 p0481 N84-13163
Effect of thrust reverser operation on the lateral-directional characteristics of a three-surface F-15 model at transonic speeds
[NASA-TP-2234] 04 p0481 N84-13165
Study and review of permanent magnets for electric vehicle propulsion motors
[NASA-CR-168178] 04 p0617 N84-14071
LACV-30 increased payload study
[AD-A133804] 05 p0663 N84-14355
Downsizing assessment of automotive Stirling engines
[NASA-TM-83468] 05 p0761 N84-14989
Propulsion apparatus and method using boil-off gas from a cryogenic liquid — controlling spacecraft attitude and drag
[NASA-CASE-MFS-25946-1] 06 p0796 N84-15183
Orbital propulsion module system configuration study. Volume 1: Executive summary
[S/DT/YA-25-030-VOL-1] 08 p1120 N84-17282
Orbital propulsion module system configuration study, volume 2
[S/DT/YA-25-030-VOL-2] 08 p1120 N84-17283
Development of a DC propulsion system for an electric vehicle
[NASA-CR-168306] 10 p1529 N84-20014
Electric vehicle propulsion alternatives
[NASA-TM-83504] 10 p1529 N84-20017
Aerospace vehicle
[NASA-CASE-LAR-13155-1] 11 p1624 N84-20628
Evaluation of propellant tank insulation concepts for low-thrust chemical propulsion systems
[NASA-CR-168320] 11 p1625 N84-20634
Investigation of the applicability of a stored hydraulic energy propulsion system to a conventional bus
[PB84-115021] 11 p1753 N84-21446
V/STOL concepts in the United States: Past, present, and future
[NASA-TM-85938] 13 p1926 N84-22532
Investigation of combustion characteristics of a high chamber pressure rocket motor
13 p1952 N84-22693
Aerodynamic effect of combustor inlet-air pressure on fuel jet atomization
[NASA-TM-83611] 13 p1989 N84-22910
Preliminary flight test results of the F100 EMD engine in an F-15 airplane
[NASA-TM-85902] 15 p2262 N84-24588
V/STOL propulsion system aerodynamics
16 p2436 N84-25630
Propulsion issues for advanced orbit transfer vehicles
[NASA-TM-83624] 16 p2459 N84-25762
Study of aerodynamic technology for single-cruise engine V/STOL fighter/attack aircraft
[NASA-CR-166271] 19 p2956 N84-28737
Development of carbon slurry fuels for transportation (hybrid fuels, phase 2)
[NASA-CR-174659] 19 p2992 N84-28980
SSME modifications for on-demand launch vehicles
20 p3136 N84-29914
Evolution and flight history of the Defense Meteorological Satellite Program (DMSP) propulsion module 20 p3137 N84-29917
Propulsion issues for advanced orbit transfer vehicles
20 p3140 N84-29937
The 1984 JANNAF Propulsion Meeting, volume 2
[AD-A143025] 20 p3140 N84-29939
Propulsion in a life-saving role for ACES 2
20 p3141 N84-29942
The Stencel S4S ejection seat: A study in new pyrotechnic developments 20 p3141 N84-29943
Energy management for crew escape systems
20 p3141 N84-29945
AC propulsion system for an electric vehicle, phase 2
[NASA-CR-168244] 21 p3390 N84-31514
Energy efficient engine component development and integration program
[NASA-CR-173864] 22 p3536 N84-32389
Rocket injector anomalies study. Volume 1: Description of the mathematical model and solution procedure
[NASA-CR-174702] 22 p3543 N84-32428
Rocket injector anomalies study. Volume 2: Results of parametric studies
[NASA-CR-174703] 22 p3543 N84-32429
Contribution to the performance of microjets
[NASA-TM-77730] 24 p3900 N84-34694

PROPULSION SYSTEM PERFORMANCE

Afterbody propulsor performance validation for A 2.65 fineness ratio body advanced tactical vehicle
[AD-A131259] 01 p0080 N84-10517
Energy efficient engine: Flight propulsion system, preliminary analysis and design update
[NASA-CR-167980] 02 p0179 N84-11170
AFWAL FY82 technical accomplishments
[AD-A131839] 03 p0315 N84-12054
Ground and inflight operational effects of APU's
03 p0335 N84-12182
Journal of the Chinese Society of Astronautics (selected articles)
[AD-A131881] 03 p0341 N84-12212
Fiberoptics for propulsion control system
[NASA-TM-83542] 05 p0625 N84-14111
Powerplant selection for conceptual helicopter design
[AD-A132982] 05 p0632 N84-14153
Aeronautical propulsion: Present status and future directions
[NASA-TM-83589] 07 p0943 N84-16119
TIGS (table plot interactive graphics system)--an interactive graphical system for the creation and correction of tabular data sets
[AD-A135522] 08 p1212 N84-17906
Test bed ion engine development
[NASA-CR-174823] 11 p1624 N84-20632
Journal of Engineering Thermophysics (selected articles)
[AD-A137191] 11 p1745 N84-21391
Investigation of the applicability of a stored hydraulic energy propulsion system to a conventional bus
[PB84-115021] 11 p1753 N84-21446
Measurement of fluid properties using rapid-double-exposure and time-average holographic interferometry
[NASA-TM-83630] 12 p1818 N84-21849
Model identification and parameter estimation of the power, lift, and drag of light aircraft from a single maneuver 13 p1930 N84-22552
Preliminary investigation of a two-zone swirl flow combustor
[NASA-TM-83637] 13 p1932 N84-22565
Coupling between velocity oscillations and solid propellant combustion 13 p1944 N84-22643
Effect of oscillations upon velocity distributions in simulated solid propellant flow environments
13 p1945 N84-22646

Investigation of combustion characteristics of a high chamber pressure rocket motor
13 p1952 N84-22693
Aerodynamic effect of combustor inlet-air pressure on fuel jet atomization
[NASA-TM-83611] 13 p1989 N84-22910
Rotorcraft contingency power study
[NASA-CR-174675] 15 p2261 N84-24580
Supersonic STOVL ejector aircraft from a propulsion point of view
[NASA-TM-83641] 15 p2261 N84-24581
Supersonic STOVL aircraft with turbine bypass/turbo-compressor engines
[NASA-TM-83666] 15 p2261 N84-24582
An overview of NASA intermittent combustion engine research
[NASA-TM-83668] 15 p2261 N84-24583
Preliminary flight test results of the F100 EMD engine in an F-15 airplane
[NASA-TM-85902] 15 p2262 N84-24588
Results of electric-vehicle propulsion system performance on three lead-acid battery systems
[NASA-TM-83657] 15 p2361 N84-25166
Assessment of fuel cell propulsion systems
[DE84-006323] 15 p2420 N84-25536
Layout considerations and types of V/STOL aircraft
16 p2436 N84-25629
V/STOL propulsion system aerodynamics
16 p2436 N84-25630
Cold-air performance of compressor-drive turbine of department of energy upgraded automobile gas turbine engine. 3: Performance of redesigned turbine
[NASA-TM-83627] 16 p2438 N84-25644
Modification of NASA Langley 8 foot high temperature tunnel to provide a unique national research facility for hypersonic air-breathing propulsion systems
[NASA-TM-85783] 16 p2454 N84-25733
Space station propulsion analysis study
[NASA-TM-83715] 16 p2459 N84-25764
Unsteady flow in turbomachinery: An overview
16 p2488 N84-25961
Ground and inflight operational effects of APU's
[VFW-30/83-O] 16 p2562 N84-26438
Utilization of alternative fuels in diesel engines
[NASA-CR-174669] 17 p2628 N84-26813
Study of aerodynamic technology for single-cruise-engine VSTOL fighter/attack aircraft, phase 1
[NASA-CR-166266] 18 p2788 N84-27693
Experimental and theoretical studies of laser propulsion phenomenology
[AD-A140995] 18 p2846 N84-28069
Weapons file
[AD-A142508] 20 p3128 N84-29867
Recent applications of the CONTAM 3 computer model to spacecraft propulsion systems
20 p3137 N84-29916
Evolution and flight history of the Defense Meteorological Satellite Program (DMSP) propulsion module
20 p3137 N84-29917
A study of methods for alleviation of flow decay risk to the Galileo spacecraft
20 p3137 N84-29919
Optimization of electromagnetic propulsion systems
20 p3139 N84-29929
The 1984 JANNAF Propulsion Meeting, volume 2
[AD-A143025] 20 p3140 N84-29939
Energy efficient engine component development and integration program
[NASA-CR-173884] 22 p3536 N84-32389
Comparison of combustion efficiencies for ramjet engines
[NASA-TM-77749] 23 p3694 N84-33411
Exploratory testing of the MBB 10 N bipropellant engine. Volume 2: Preliminary exhaust plume investigations
[MBB-UR-561-82-VOL-2] 23 p3702 N84-33464
Contribution to the performance of microjets
[NASA-TM-77730] 24 p3900 N84-34694

PROPULSIVE EFFICIENCY
NT PROPELLER EFFICIENCY
Generation of vehicle wobbling by the unsteady flow field in a spinning solid propellant rocket motor
13 p1945 N84-22648
Direct measurement of high frequency solid propellant response functions
13 p1945 N84-22649
Preliminary flight test results of the F100 EMD engine in an F-15 airplane
[NASA-TM-85902] 15 p2262 N84-24588
Cold-air performance of compressor-drive turbine of department of energy upgraded automobile gas turbine engine. 3: Performance of redesigned turbine
[NASA-TM-83627] 16 p2438 N84-25644
Comparison of a propfan/turbofan engine by thermodynamic cycle calculation
[ESA-TT-820] 16 p2450 N84-25715
Orbit maneuvers with finite thrust
[MBB-UR-654-83-O] 16 p2455 N84-25741
An investigation of a new flight test method for measuring the performance of general aviation aircraft
22 p3534 N84-32375

PROSPECTING
U EXPLORATION

PROSTAGLANDINS
Hyperpyrexia and head trauma
[AD-A139420] 14 p2185 N84-24090

PROSTHETIC DEVICES
Prosthetic occlusive device for an internal passageway
[NASA-CASE-MFS-25740-1] 02 p0265 N84-11744
Development and marketing of a prosthetic urinary control valve system
[NASA-CR-170994] 12 p1867 N84-22168
Ultrasonic and optical evaluation of surgical implant materials and devices. A durability study of pericardial bioprostheses
[NASA-CR-173437] 16 p2535 N84-26274
Man-machine systems group
[WTHD-161] 20 p3263 N84-30703
Evaluation of arm protheses for unilateral amputees
20 p3264 N84-30713
Proprioception — prosthetic devices
20 p3264 N84-30714

PROTECTION
NT ACCELERATION PROTECTION
NT CIRCUIT PROTECTION
NT CORROSION PREVENTION
NT ENVIRONMENT PROTECTION
NT EYE PROTECTION
NT RADIATION PROTECTION
NT RADIATION SHIELDING
NT SOLAR RADIATION SHIELDING
NT THERMAL PROTECTION
How to protect a wind turbine from lightning
[NASA-CR-168229] 01 p0102 N84-10661
West breakwater-Sines (Portugal). Overview of rehabilitation and synthesis of project
08 p1194 N84-17786
Standard for fire protection of DOE electronic computer/data processing systems
[DE84-007194] 14 p2135 N84-23793
Helicopter Pilot/Copilot survival system
[AD-A140358] 16 p2445 N84-25682
Protective linear materials for transparent plastics
[AD-P003204] 17 p2592 N84-26617
Department of defense trusted computer system evaluation criteria
[AD-A141304] 18 p2917 N84-28498
The effect of turbulence on the atmospheric transmittance
[AD-A141133] 19 p3004 N84-29039
Design of a safety monitor system for high explosives machining
[DE84-01C101] 20 p3168 N84-30113
Missile system for low altitude air defence
21 p3351 N84-31255
Effect of protective gas composition on seam formation during laser welding
24 p3870 N84-34524
Corrosion protective properties of coatings obtained by hydraulic pulse compacting of aluminum powder
24 p3875 N84-34553

PROTECTIVE CLOTHING
NT HELMETS
NT PRESSURE SUITS
NT SPACE SUITS
A laboratory comparison of portable cooling systems for workers exposed to two levels of heat stress
[AD-A131848] 03 p0372 N84-12423
Effectiveness in reducing heat stress of three conditioned-air cooling vests worn with and without cooling air supplied to a face piece
[AD-A131975] 03 p0417 N84-12726
Mathematical simulation of diver performance
[AD-A133844] 05 p0713 N84-14671
Measurements of hypergolic fuels' and oxidants' permeation through commercial protective materials: Part 1. Inhibited red fuming nitric acid and unsymmetrical dimethylhydrazine
[AD-A134714] 06 p1139 N84-17411
An evaluation of a hydrophobic silica pigment used as a water-repellent finish
[AD-A137389] 10 p1466 N84-19575
Missile component repair while wearing NBC protective clothing
[AD-A137315] 10 p1553 N84-20180
Component development
[DE84-005829] 11 p1634 N84-20681
Laboratory studies of aircrew chemical protective ensemble: Effects on pilots' performance
11 p1697 N84-21066
Psycho-ergonomic problems presented by the prolonged wearing of gas masks
11 p1698 N84-21073
Selected factors affecting aircrew performance during sustained operations
11 p1698 N84-21074
Heat resistant protective hand covering
[NASA-CASE-MSC-20261-2] 13 p2022 N84-23113
Fuel fire tests of polytetra-fluoroethylene anti-exposure suits
[AD-A140038] 15 p2385 N84-25303
An explosive ordnance disposal protective suit
[AD-D011072] 19 p3071 N84-29483
Annual meeting of the Pyrotechnics and Explosives Applications Section on the American Defense Preparedness Association
[AD-A143157] 21 p3373 N84-31406

PROTECTIVE COATINGS
NT ANODIC COATINGS
NT CERAMIC COATINGS
NT PRIMERS (COATINGS)
NT REFRACTORY COATINGS
Research needs for the use of polymer coatings for corrosion protection
[DE83-015443] 01 p0051 N84-10328
A review of the use of wear-resistant coatings in the cutting-tool industry
[NASA-TM-83512] 02 p0199 N84-11295
Thick deposits and overlays for fusion-reactor applications
[DE83-014626] 02 p0293 N84-11919
Corrosion resistant coating
[NASA-CASE-NPO-15928-1] 03 p0352 N84-12289
Damage thresholds of thin film materials and high reflectors at 248 nm
[DE83-012663] 03 p0380 N84-12472
Intumescent reaction mechanisms: An analytic model
[AD-A132586] 04 p0491 N84-13225
The electrodeposition of titanium coatings
[BLL-OA-TRANS-3057-(6196.3)]
04 p0497 N84-13260
Current state of titanium coating methods
[BLL-OA-TRANS-3067-(6196.3)]
04 p0498 N84-13268
Testing of epoxy-phenolic coating for lining carbon steel pipe
[DE84-000073] 04 p0507 N84-13322
The structure and behavior of vacuum plasma sprayed overlay coatings on nickel based superalloys
[AD-A132631] 05 p0654 N84-14301
Heat sealable, flame and abrasion resistant coated fabric
[NASA-CASE-MSC-18382-2] 05 p0658 N84-14324
An assessment of ablative organotin antifouling (AF) coatings
[AD-A134019] 05 p0658 N84-14326
Tenth International Thermal Spraying Conference
[AD-A133074] 05 p0663 N84-14359
Methods in competition with electroplating
[BLL-OA-TRANS-3037-(6196.3)]
06 p0800 N84-15213
Development of an improved protective cover/light block for multilayer insulation
[NASA-TM-82563] 06 p0809 N84-15269
The use of Auger electron spectroscopy and ellipsometry in the study of corrosion inhibition
06 p0815 N84-15307
Surface coating systems for copper and copper alloys
06 p0815 N84-15311
Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] 07 p0967 N84-16266
Ion deposited carbon coatings
[AD-A135068] 08 p1136 N84-17390
Development of a corrosion control, nonemissive paint for the protection of bilge spaces
[AD-A136270] 09 p1287 N84-18402
Liquid impact erosion mechanisms in transparent materials
[AD-A135891] 09 p1287 N84-18405
Thermal properties of coating materials and their effect on the efficiency of coated cutting tools
09 p1292 N84-18440
Preparation of a profiled film of diamond-like carbon on germanium substrates
[AD-A136314] 09 p1394 N84-19104
Protective oxide films
[DE84-004088] 10 p1461 N84-19543
Ceramic coatings for heat engine materials: Status and future needs
[DE84-003401] 10 p1468 N84-19590
Preventative measures to limit stress corrosion cracking in prestressed concrete
[AD-A136665] 10 p1471 N84-19609
Development of low temperature cure epoxy paint for offshore steel structures in cold areas
[NRC/CNR-TT-2078] 11 p1636 N84-20694
The insulation of copper wire by the electrostatic coating process
[AD-A137715] 11 p1646 N84-20765

Thermal properties of loose tube secondary coated optical fibres experimentally discussed by a relative light pulse delay technique 11 p1727 N84-21269
Optical coating in space
[NASA-CR-175441] 11 p1731 N84-21290
Erosion of corrosion resistant coatings for jet engine compressors
[NLR-MP-83010-U] 12 p1771 N84-21550
Chemical and physical processes on nonemissive grids — grid controlled amplifier tubes
[EVT-825] 12 p1794 N84-21700
Chemical vapour deposition coating of hard metals with special reference to boron and boron compounds
[BLL-RISLEY-TRANS-4877] 12 p1795 N84-21705
The ductility of metal diffusion coatings on nickel alloys and their characterization
[BLL-RISLEY-TRANS-4883] 12 p1795 N84-21706
Corrosion control through a better understanding of the metallic substrate/organic coating/interface
[AD-A139086] 13 p1961 N84-22739
Method and apparatus for coating substrates using a laser
[NASA-CASE-LEW-13526-1] 13 p1995 N84-22944
Pulsed D2-F2 chain-laser damage to coated window and mirror components
[AD-A138911] 13 p1995 N84-22950
Novolac as stain protective film during optical glass fabrication
[DE84-005735] 13 p2044 N84-23260
An evaluation of permanent solder masks for high reliability applications
[AD-A139234] 14 p2134 N84-23787
New acid-proof protective coating 14 p2136 N84-23806
Performance of thermal barrier coatings in high heat flux environments
[NASA-TM-83663] 15 p2295 N84-24772
Coated flexible laminate and method of its production
[NASA-CASE-GSC-12913-1] 15 p2301 N84-24807
Fuel-resistant coating and binders for porous friction surface pavements: Tests and analyses
[AD-A139865] 15 p2317 N84-24907
Development of new absorber coatings for high temperature applications
[BMFT-FB-T-84-033] 16 p2471 N84-25837
Specialty coatings for increased service life of acrylic aircraft transparencies, part 2
[AD-P003206] 17 p2593 N84-26619
Use of refractory coatings to protect metal gainst high-temperature corrosion
[BLL-M-35543-(5828.4)] 17 p2621 N84-26772
Development of concepts for corrosion assessment and evaluation of underground pipelines
[AD-A140633] 17 p2623 N84-26788
Thermally-sprayed active metal coatings for corrosion protection in marine environments
[AD-A140783] 17 p2624 N84-26795
Coating with overlay metallic-cermet alloy systems
[NASA-CASE-LEW-13639-2] 18 p2813 N84-27855
Long-term materials test program
[DE84-008899] 18 p2815 N84-27870
Development of improved LACV-30 propeller blade coatings for protection against sand and rain erosion and marine environment corrosion
[AD-A132999] 18 p2821 N84-27914
Aircraft surface coatings
[NASA-CR-165928] 19 p2963 N84-28778
Interactions between erosion and corrosion of metals and alloys at elevated temperatures
[AD-A141410] 19 p2993 N84-28968
Deposition of diamondlike carbon films
[NASA-CASE-LEW-14080-1] 19 p2996 N84-28986
The production and evaluation of high-strength optical fibre 19 p3104 N84-29717
Cadmium plating versus other coatings to prevent corrosion
[AD-A142504] 20 p3153 N84-30022
Solving corrosion problems with surface analysis
[DE84-008652] 20 p3154 N84-30025
Deposits on light alloys — aluminum
[CETIM-12-F-380] 21 p3368 N84-31371
Chemical vapor deposition of erosion resistant TiB-2 coatings
[DE84-012351] 22 p3556 N84-32518
Overlay metallic-cermet alloy coating systems
[NASA-CASE-LEW-13639-1] 23 p3716 N84-33555
Long Term Materials Test Program
[DE84-014791] 23 p3719 N84-33579
Improved thermal barrier coating system
[NASA-CASE-LEW-14057-1] 23 p3724 N84-33595
High temperature oxidation resistant coatings
[AD-A143633] 23 p3724 N84-33597
Photovoltaic module encapsulation design and materials section, volume 2
[NASA-CR-173902] 23 p3786 N84-34013
Corrosion protective properties of coatings obtained by hydraulic pulse compacting of aluminum powder 24 p3675 N84-34553

PROTECTORS
NT EAR PROTECTORS
Protective telescoping shield for solar concentrator
[NASA-CASE-NPO-16236-1] 15 p2361 N84-25164

PROTEIN METABOLISM
Free amino acids of blood before and after short-term spaceflights 02 p0260 N84-11702
Effect of hypokinesia on amino acid metabolism in rats on diets differing in calcium and phosphorus content 02 p0261 N84-11707
Protein changes in leaf-sheath pulvini of barley (hordeum) induced by gravistimulation 09 p1352 N84-18832
Metabolic alterations caused by suspension hypokinesia in leg muscles of rats 09 p1354 N84-18848
New book on metabolism under hypodynamic conditions 15 p2378 N84-25271

PROTEIN SYNTHESIS
The combined influence of stretch, mobility and electrical stimulation in the prevention of muscle fiber atrophy caused hypokinesia and hypodynamia
[NASA-CR-173994] 24 p3936 N84-34914

PROTEINS
NT ADENOSINE TRIPHOSPHATE
NT COENZYMES
NT FIBRINOGEN
NT PEPTIDES
NT POLYPEPTIDES
Intracellular calcium receptors: Calmodulin and related proteins 02 p0263 N84-11724
Role of calcium and calmodulin in plant cell regulation 02 p0263 N84-11725
Role of calmodulin in cell proliferation 02 p0264 N84-11737
Studies of proteinograms in dermatophytes by disc electrophoresis. 1. Protein bands in relation to growth phase
[NASA-TM-77095] 07 p1042 N84-16755
Feasibility study of an automatic protein growth facility using the retrievable carrier — EURECA project
[MBB-URV-131(82)] 09 p1263 N84-18246
Protein and carotenoid synthesis and turnover in gravistimulated root caps 09 p1352 N84-18837
Prochloron research
[NASA-CR-173264] 10 p1543 N84-20113
Prochloron expedition 10 p1544 N84-20120
Studies on proteinograms in dermatorphytes by disc electrophoresis. Part 2: Protein bands of keratinophilic fungi
[NASA-TM-77096] 10 p1545 N84-20127
Computer simulation of protein systems 10 p1559 N84-20214
Poly (ADP-ribose) in nucleoids
[OEFZS-4267] 18 p2900 N84-28399
Unraveling photosystems
[DE84-013812] 22 p3629 N84-32994
Microbiology and food program 22 p3629 N84-32999
Protein Single Crystal Growth Under Low Gravity — conferences
[ESA-SP-1067] 23 p3804 N84-34118
Application of protein crystals for structure and function analysis 23 p3804 N84-34119
Crystallization of the membrane protein rhodopsin 23 p3804 N84-34120
The alpha-crustacyanin, the lobster carapace astaxanthin-protein 23 p3804 N84-34122
Carbohydrate-protein interactions 23 p3805 N84-34123
Diffusion profiles in microgravity protein crystallization experiments — Spacelab 23 p3805 N84-34125
Effects of prolonged weightlessness on orchidaceae proteins 23 p3805 N84-34130
Analysis of collagen and noncollagenous proteins in bone particles fractionated by gradient density fractionation 23 p3808 N84-34144

PROTOCOL (COMPUTERS)
Multibus Avionic Architecture Design Study (MAADS)
[AD-A138226] 12 p1770 N84-21546
Development and investigation of a high level token passing module for local communication networks — microprocessors
[HMI-B-387] 15 p2322 N84-24941
Minimum-distance problems in protocol design 16 p2480 N84-25903
Fault tolerant architectures for integrated aircraft electronics systems, task 2
[NASA-CR-172282] 18 p2795 N84-27734
The Record of Electrical and Communication Engineering Conversazione, volume 53, no. 1, Jul. 1984
[ISSN-0385-7719] 22 p3563 N84-32565
On applications of a specification and description language NESDEL to communication protocols 22 p3563 N84-32567
Higher layer protocols for a workstation architecture
[DE84-013649] 22 p3641 N84-33087
Updating replicated files in real time distributed processing systems 22 p3670 N84-33264
The domain name system
[AD-A143618] 23 p3817 N84-34201
C3I (Command, Control, Communications and Intelligence) information systems internetwork study
[AD-A144271] 24 p3942 N84-34958

PROTON BEAMS
Using inner-shell X-rays as an ion-beam diagnostic
[DE83-017784] 03 p0436 N84-12857
Nucleon-nucleon interactions and polarized-beam (both proton and antiproton) facilities at LAMPF 2
[DE83-017215] 03 p0436 N84-12860
Developing a 500-eV proton beam
[DE83-012781] 03 p0439 N84-12880
Applied-B ion diode experiments on PBFA 1
[DE83-017792] 03 p0447 N84-12942
Operational studies and expected performance of superconducting quadrupole magnets in the first stages of secondary beams
[DE83-016734] 03 p0456 N84-12999
PR beam-pulse formation and control
[DE84-001354] 04 p0596 N84-13936
Direct measurement of the energy spectrum of an intense proton beam
[DE84-000457] 04 p0597 N84-13939
Proto-I axial-focusing experiments
[DE84-000458] 04 p0599 N84-13951
ARCHSIM: A proton-synchrotron tracking program, including longitudinal space charge
[DE84-001335] 04 p0599 N84-13952
Overview of ion-diode research
[DE83-017791] 04 p0608 N84-14012
Study of defects produced in tungsten by 800-MeV protons using field-ion microscopy
[DE84-001359] 04 p0613 N84-14048
Design and fabrication of the BNL radio frequency quadrupole
[DE84-001456] 05 p0671 N84-14409
System for producing high-resolution polarized and unpolarized beams with a tandem accelerator
[DE84-004054] 09 p1388 N84-19063
Exploration of phase stability in the surfatron accelerator
[DE84-011416] 20 p3193 N84-30280
A 6.5 Tesla SSC lattice example
[DE84-010719] 20 p3285 N84-30858
Comparison of some SSC beam parameters for pp and anti pp
[DE84-010729] 20 p3293 N84-30908
Elementary principles of linear accelerators
[DE84-007911] 20 p3294 N84-30913
PIXE and PBFA 2: Pulsed X-ray source feasibility study
[DE84-011535] 21 p3496 N84-32155
Study in spurious sensitivity of electronics
[AD-A143947] 23 p3742 N84-33719

PROTON DAMAGE
Solar cell degradation in proton radiation orbits 19 p3045 N84-29315
Model of solar cell proton damage 19 p3045 N84-29316
Proton-induced single event upsets in the SBP9989 microprocessor
[AD-A142448] 20 p3256 N84-30724

PROTON IRRADIATION
Photochemical conversion of H-2Os-3(CO)10(P-Donor) to H-2Oc-3(CO)9(P-Donor) in solution and on high surface area silica
[AD-A136991] 10 p1455 N84-19501
Role of charged state in build-up and annealing of deep centers in GaAs irradiated by protons 18 p2825 N84-27938
Motor performance in irradiated rats as a function of radiation source, dose, and time since exposure
[AD-A141209] 18 p2894 N84-28363
Piecewise simulaton proton test of gallium arsenide and thin silicon solar cells 19 p3045 N84-29317
Delayed effects of proton irradiation in Macaca mulatta. 3: Glucose intolerance
[AD-A142289] 20 p3256 N84-30669
Study of proton and neutron activation of metal samples in low Earth orbit
[NASA-CR-171113] 21 p3430 N84-31763
Radiation effects in silicon and gallium arsenide solar cells using isotropic and normally incident radiation
[NASA-CR-174007] 24 p3916 N84-34793

PROTON MAGNETIC RESONANCE
The changing world of geomagnetism: A brief history relating to magnetic observatories 09 p1343 N84-18776

PROTON SCATTERING
Amplitude analysis of elastic p-p scattering at 6 GeV/c at all t's
[DE83-015875] 02 p0291 N84-11909
New approach to polarized proton scattering based on Dirac dynamics
[DE84-006018] 20 p3296 N84-30826
PROTON-PROTON REACTIONS
Photon-photon production in hadron-hadron collisions
[DE83-015948] 02 p0292 N84-11912
PROTONS
NT SOLAR PROTONS
Prediction of solar-terrestrial disturbances: Decay phase of energetic proton events
[AD-A130103] 01 p0165 N84-11085
Temporal variations of the anomalous oxygen component 03 p0471 N84-13099
Positive ion-molecule reactions in OCS/hydrocarbon mixtures
[AD-A132350] 04 p0493 N84-13237
Proceedings of the Summer Workshop on Proton Decay Experiments
[DE83-009572] 04 p0603 N84-13980
Proton electrostatic analyzer
[AD-A133586] 06 p0848 N84-15528
Non-stochastic acceleration of protons in the magnetic neutral sheet
[IPPJ-646] 06 p0919 N84-15975
Studies of neutron and proton nuclear activation in low-Earth orbit 2 06 p0930 N84-16041
A study of physical processes for space radiation protection
[NASA-CR-173183] 07 p1071 N84-16954
Intermediate energy proton stopping power for hydrogen molecules and monoatomic helium gas
07 p1071 N84-16955
Low-energy proton stopping power of N2, O2 and water vapor and deviations from Bragg's rule
07 p1071 N84-16956
A theoretical model for calculation of molecular stopping power 07 p1071 N84-16957
Proton transport in beta alumina
11 p1743 N84-21371
Trapped-proton energy spectrum determination (M0002-1) 15 p2276 N84-24663
Proton-induced single event upsets in the SBP9989 microprocessor
[AD-A142448] 20 p3266 N84-30724
Proton-induced single event upsets in 71 Earth-satellite environments
[AD-A142435] 20 p3272 N84-30771
The study of the dynamics of the electron fluxes and spectra during solar minimum 24 p3994 N84-35276
PROTOPLANETS
Evolution of the Uranus-Neptune planetesimal swarm: Consequences for the Earth 13 p2074 N84-23445
PROTOSTARS
NT T TAURI STARS
Some theoretical studies of the interstellar medium
02 p0306 N84-12006
Normal galaxies 10 p1594 N84-20449
Spectroscopy of the 4.6 - 4.7 micron interstellar absorption features 16 p2570 N84-26492
New infrared observations of IRS1, IRS3 and the adjacent nebula in the OMC-2 cluster
16 p2572 N84-26506
The nature of AFGL 2591 and its associated molecular outflow: Infrared and millimeter-wave observations
[NASA-TM-85963] 16 p2575 N84-26526
Spectroscopy of the 4.6 - 4.7 micron interstellar absorption features 18 p2948 N84-28690
New infrared observations of IRS1, IRS3, and the adjacent nebula in the OMC-2 cluster
18 p2950 N84-28705
Studies of low-mass star formation with the large deployable reflector
[NASA-TM-85960] 21 p3524 N84-32328
PROTOTYPES
Moltencarbonate fuel cells, development status
[DE84-000612] 04 p0529 N84-13480
Developing proto-type pump which would utilize unique thermo-dynamic cycle
[DE84-000323] 05 p0688 N84-14523
The software engineering prototype
[AD-A132612] 05 p0729 N84-14782
Laser range finding technology for space to space applications. Volume 1: Laser diode range finder functional model
[MBB-UR-608-83-O-VOL-1] 09 p1324 N84-18648
Superfluid Helium Cryostat for Space Utilization (CRHESUS): Development and test overview
10 p1442 N84-19420
Feasibility study to conduct windblown sediment experiments aboard a space station
[NASA-CR-175434] 12 p1776 N84-21586
Compact gas insulated transformer
[DE84-006426] 12 p1814 N84-21822
Development and marketing of a prosthetic urinary control valve system
[NASA-CR-170994] 12 p1867 N84-22168
Characteristics of a prototype experiment
13 p2027 N84-23140
Competition as an acquisition strategy: Impact of competitive research and development on procurement costs
[AD-A141313] 18 p2944 N84-28667
A numerical simulation of three-dimensional flow in an adaptive wall wind tunnel
[NASA-TP-2351] 19 p2958 N84-28750
Development of a 60 cm photographic Zenith telescope, and construction of a prototype
[BMFT-FB-T-84-122] 23 p3826 N84-34263
LISP implementation baseline investigation
[AD-A144244] 24 p3948 N84-34983
PROTOZOA
Oligocene and Miocene larger foraminiferida from Australia and New Zealand
[BMR-BULL-188] 23 p3797 N84-34077
Tertiary foraminifera and age of sediments, Ok Tedi-Wabag, Papua New Guinea
[BMR-BULL-216] 23 p3797 N84-34078
PROVING
NT THEOREM PROVING
Automating the testing of software
06 p0774 N84-15074
Performance monitoring of active solar energy systems
[DE84-000027] 12 p1844 N84-22022
Nimbus-Earth radiation budget instrument analysis
[NASA-CR-172318] 14 p2175 N84-24029
Measured versus predicted performance of the SERI test house: A validation study 16 p2513 N84-26128
A geometric proof of total positivity for spline interpolation
[AD-A141606] 19 p3085 N84-29583
MIL-STD-1553B validation testing
[AD-P003544] 21 p3333 N84-31148
MIL-STD-1750A verification testing
[AD-P003555] 21 p3335 N84-31159
Digital avionics design for validation
[AD-P003571] 21 p3337 N84-31176
Theoretical issues in the design and verification of distributed systems 22 p3643 N84-33096
Verification techniques for satellite-borne synthetic aperture radars 23 p3783 N84-33992
Validation of relative-time-spent rating scales
[AD-A144067] 23 p3812 N84-34169
Validation of a fault-tolerant clock synchronization system
[NASA-TP-2346] 23 p3816 N84-34198
Numerical validation of Tukey's criterion for clinical trials and sequential testing
[AD-P003853] 24 p3940 N84-34939
PROXIMITY EFFECT (ELECTRICITY)
Magnetic impurity scattering in in situ superconductors
[DE84-012835] 21 p3505 N84-32212
The proximity effects of superconducting multilayer film
[AD-A143255] 22 p3662 N84-33217
PRUSSIC ACID
U HYDROCYANIC ACID
PSEUDONOISE
Application of pseudoinversion to linear system identification with discrete measurements
[AD-A132283] 04 p0521 N84-13422
PSEUDOPOTENTIALS
High pressure equation of state of Li, Na and K
[DE83-014844] 02 p0191 N84-11238
PSYCHOACOUSTICS
The effect of noise and display orientation on cognitive performance
[AD-A136808] 10 p1550 N84-20158
Annoyance caused by propeller airplane flyover noise
[NASA-TP-2356] 21 p3491 N84-32124
The loudness of complex noise consisted of impact sound and steady noise 23 p3741 N84-33711
PSYCHOLOGICAL EFFECTS
NT DESYNCHRONIZATION (BIOLOGY)
NT JET LAG
Effects of pulsed microwaves at 1.28 and 5.62 GHz on Rhesus monkeys (Macaca mulatta) performing an exercise task at three levels of work
[AD-A132057] 03 p0413 N84-12704
A restraint chair with rowing-like movement for exposing exercising nonhuman primates to microwave irradiation
[AD-A132047] 03 p0413 N84-12705
Effect of pulsed 5.62 GHz microwaves on squirrel monkeys (Saimiri sciureus) performing a repeated acquisition task
[AD-A132045] 03 p0413 N84-12706
A comparison of map learning methods: Map study, simulated travel and mixed
[AD-A133544] 06 p0892 N84-15794
General introduction to the study on the gastrointestinal hormones and the gastric acid secretion during physical stress in man 10 p1546 N84-20137
The effect of noise and display orientation on cognitive performance
[AD-A136808] 10 p1550 N84-20158
USSR report: Space Biology and Aerospace Medicine, volume 18, no. 2, March - April 1984
[JPRS-USB-84-004] 15 p2374 N84-25247
Some psychological consequences of prolonged social isolation 15 p2376 N84-25257
The physical and psychological factors governing sound-image quality
[NHK-SERIAL-298] 15 p2403 N84-25424
A summary of the psychological effects of tactical nuclear warfare
[AD-P003256] 18 p2905 N84-28423
Aftereffects associated with one and two stressors across conditions of complete, partial, or no control
[AD-P003299] 18 p2908 N84-28446
Psychological and biochemical effects of a stress management program
[AD-P003300] 18 p2909 N84-28447
Definitions of noise and noise pollution
19 p3069 N84-29466
Loudness, noisiness, and vibration effects
19 p3069 N84-29470
Bilateral carotid ligation and effects of electromagnetic field on conditioned reflex retention and cerebral nucleic acid levels 20 p3258 N84-30677
Stability of physiological and psychological human functions under extreme environmental conditions
21 p3453 N84-31910
Realization of human work capacity: Interdisciplinary problems 21 p3454 N84-31920
PSYCHOLOGICAL FACTORS
Direct comparison of intuitive, quasi-rational and analytical cognition
[AD-A130273] 01 p0116 N84-10751
A critical analysis of the uses of multiple regression in the study of human judgement
[AD-A131224] 01 p0116 N84-10755
Representations of perceptions of risks
[AD-A131443] 01 p0117 N84-10759
Revitalization: An organizational program for the individual
[DE83-014949] 03 p0458 N84-13013
Physiological and psychological aspects of the piloting of modern high-performance combat aircraft
06 p0778 N84-15099
Neurobehavioral effects of carbon monoxide (CO) exposure in humans protocol 1
[AD-A133891] 06 p0888 N84-15774
The human side of robotics: Results from a prototype study on how workers react to a robot
[AD-A133438] 06 p0894 N84-15805
Organizational-climate dimensions: A conceptual and judgmental analysis
[AD-A132898] 06 p0934 N84-16068
A theory of diagnostic inference: Judging causality
[AD-A133172] 07 p1049 N84-16796
Task conditions versus stable individual differences as determinants of experts' judgement policies
[AD-A134797] 08 p1203 N84-17841
Effort and accuracy in choice
[AD-A136881] 10 p1550 N84-20161
Psychological research in USA within the areas of anti-tank helicopter operations and man-computer interactions: Study trip to USA, May-June 1983
[FOA-C-53012-H2] 10 p1552 N84-20172
Effects of appraisal salience on immediate and memory-based judgments
[AD-A140334] 16 p2538 N84-26295
Correlations between incidents during helicopter missions and background variables and moods
[FOA-C-53017-H2] 18 p2790 N84-27707
Psychology and study of human factor in management
18 p2898 N84-28382
Changes in attitudes toward women at the Air Force Academy
[AD-P003261] 18 p2906 N84-28428
Video games: A human factors guide to visual display design and instructional system design
[AD-P003368] 18 p2914 N84-28480
General principles in text analysis
[FOA-C-56042-H2] 19 p3116 N84-29804
The effect of information display format on multiple-cue judgment
[AD-A142884] 21 p3459 N84-31941
The relationship between administrative style and the use of computer-based systems: An attitudinal study of academic library professionals 21 p3517 N84-32276

Space stations: Living in zero gravity, developmental task for psychologists and space environmental experts
[NASA-TM-77620] 23 p3700 N84-33454
Medical-psychological problems of the occupational reliability of flight personnel 23 p3807 N84-34136

PSYCHOLOGICAL INDEXES
U PSYCHOLOGICAL TESTS

PSYCHOLOGICAL TESTS
Effects of head impact acceleration on human performance: Overview and preliminary battery identification
[AD-A130286] 01 p0116 N84-10754
Information loss caused by noise in models for dichotomous items
[AD-A131369] 02 p0280 N84-11834
Effect of noise in the three-parameter logistic model
[AD-A131867] 03 p0416 N84-12721
Racial bias and predictive validity in testing for selection
[AD-A131830] 03 p0416 N84-12722
The programming and validation of the computerised version of the intermediate mental alertness test
[CSIR-PERS-303] 04 p0573 N84-13776
An investigation of methods for reducing sampling error in certain IRT (Item Response Theory) procedures
[AD-A133848] 05 p0739 N84-14853
Comparison of IRT observed-score and true-score equatings
[AD-A133871] 06 p0891 N84-15791
Identifying different item response curves
[AD-A133259] 07 p1049 N84-16798
Performance consistency on a perceptual-motor task as a correlate of achievement motivation
[AD-A135933] 10 p1552 N84-20170
An application of a multidimensional extension of the two-parameter logistic latent trait model
[AD-A137741] 11 p1713 N84-21170
A response model for multiple choice items
[AD-A139396] 14 p2214 N84-24297
Psychological research on advanced terrain representation: Formatting the visual material
[AD-A139782] 15 p2382 N84-25288
Dimensionality, scoring, and related problems in adaptive testing
[AD-A139849] 15 p2383 N84-25290
Massed practice: Does it change the statistical properties of performance tests?
[AD-A139338] 15 p2383 N84-25294
Microcomputer network for Computerized Adaptive Testing (CAT)
[AD-A140256] 16 p2546 N84-26341
Structure of formal-dynamic properties of human psyche in signal systems interaction 18 p2898 N84-28383
Workshops for management of combat stress
[AD-P003283] 18 p2907 N84-28439
Age effects on active duty Army MMPI (Minnesota Multiphasic Personality Inventory) profiles
[AD-P003343] 18 p2911 N84-28464
Nonlaboratory techniques for the study of cognitive and decision-making processes: A description and selected bibliography
[AD-A141732] 19 p3067 N84-29458
A statistical procedure for assessing test dimensionality
[AD-A142179] 19 p3068 N84-29462
Using interactive computing to expand intelligence testing: A critique and prospectus
[AD-A141657] 19 p3072 N84-29489
Speculations on the future of test design
[AD-A142662] 20 p3263 N84-30699
Correlation between individual alpha-rhythm parameters and operator's performance while subjected to maximum information input 21 p3453 N84-31909
Dynamics of functional status and subjective sensations in process of heat adaptation 21 p3456 N84-31931
Computer-based measurement of intellectual capabilities
[AD-A144065] 23 p3810 N84-34162
Estimating the number and duration of cognitive processes using the within-task subtractive method
[AD-A144617] 24 p3937 N84-34923

PSYCHOLOGY
NT COGNITIVE PSYCHOLOGY
NT MILITARY PSYCHOLOGY
NT PSYCHOACOUSTICS
NT PSYCHOPHYSICS
A comparative study of the factors linking psychology and information science 04 p0616 N84-14063
Investigation of an error theory for conjoint measurement methodology
[AD-A133946] 05 p0734 N84-14818
Applied psychology in Europe: An ONR perspective
[AD-A133093] 06 p0892 N84-15797
Toward an interpersonal paradigm for superior-subordinate communication
[AD-A135863] 10 p1551 N84-20166
Pairwise balanced latin squares should always be used for within-subjects designs
[AD-A137283] 10 p1569 N84-20262
An overview of productivity improvement efforts in Army organizations
[AD-A138589] 14 p2246 N84-24490
Possibilities of creating invariant man-machine systems 17 p2743 N84-27414
The research program of the Institute for Aerospace Medicine 17 p2744 N84-27419
Risk: The long and the short
[AD-A140580] 17 p2746 N84-27436
Software psychology: The need for an interdisciplinary program
[PB84-176718] 17 p2755 N84-27486
ONR (Office of Naval Research) Far East Scientific Bulletin. Volume 9, Number 1, January to March 1984
[AD-A140826] 17 p2770 N84-27589
Psychology and study of human factor in management 18 p2898 N84-28382
Structure of formal-dynamic properties of human psyche in signal systems interaction 18 p2898 N84-28383
Proceedings of the 9th Symposium on Psychology in the Department of Defense
[AD-A141043] 18 p2902 N84-28403
Visual display technology: A developing challenge for the behavioral scientist
[AD-P003290] 18 p2908 N84-28441
Aerospace Medicine and Biology: A continuing bibliography with indexes (supplement 260)
[NASA-SP-7011(260)] 19 p3064 N84-29440
USSR report: Life sciences. Effects of nonionizing electromagnetic radiation
[JPRS-UNE-84-001] 21 p3452 N84-31903

PSYCHOMETRICS
Conceptual framework for the development of workload metrics in sustained operations 11 p1696 N84-21063
The U.S. Air Force neurophysiological workload test battery: Concept and validation 11 p1696 N84-21064
Behavioral and subjective workload metrics for operational environments 11 p1696 N84-21065
An extension of the two-parameter logistic model to the multidimensional latent space
[AD-A137769] 11 p1713 N84-21173
Operationalizing halo: Problems with the computation of a standard deviation across dimensions within rates
[AD-A138393] 12 p1867 N84-22164
Estimation of latent group effects
[AD-A139299] 14 p2218 N84-24310
Integrating research on perceived and acceptable risk within the psychometric paradigm
[AD-A140833] 17 p2747 N84-27440
Speculations on the future of test design
[AD-A142662] 20 p3263 N84-30699

PSYCHOMOTOR PERFORMANCE
Processes of skill performance: A foundation for the design and use of training equipment
[AD-A136879] 10 p1550 N84-20160
Part-task training of tracking in manual control
[AD-A138346] 12 p1868 N84-22175
Role of feedback in regulation of ideomotor movements 18 p2898 N84-28386
Initial validation of a functional age profile for aviators
[AD-P003271] 18 p2907 N84-28436
NOSC (Naval Ocean Systems Center)-Hawaii perceptual sciences research program
[AD-P003361] 18 p2913 N84-28474
Mental and psychomotor task performance in noise 19 p3069 N84-29474
USSR report: Life sciences. Biomedical and behavioral sciences
[JPRS-UBB-84-012] 21 p3454 N84-31916
Visual field perimeter and psychomotor tracking performance measuring apparatus
[AD-D011056] 22 p3596 N84-32775
Spatial performance, cognitive representation and cerebral procedures
[AD-A144095] 23 p3811 N84-34163

PSYCHOPHYSICS
NT PSYCHOACOUSTICS
The effect of structured contextual tones on psychophysical frequency discrimination
[AD-A135433] 09 p1363 N84-18903
Computational experiments with a feature based stereo algorithm
[AD-A142549] 20 p3259 N84-30687
Study of spatial asymmetry in human external electrical field 21 p3456 N84-31932
Development of texture descriptions for images 24 p3914 N84-34785

PSYCHOPHYSIOLOGY
NT WORKLOADS (PSYCHOPHYSIOLOGY)
Symposium on mathematical modeling of circadian systems
[AD-A133836] 05 p0713 N84-14673
The event related brain potential as an index of information processing, cognitive activity, and skill acquisition: A program of basic research
[AD-A137779] 11 p1702 N84-21100
Biochemical measurements of the human stress response
[AD-A139381] 14 p2184 N84-24089
Brain responses and information processing IV. Investigations of hemispheric asymmetry in event related potentials and performance during discrimination of line orientation, color, shape and under visual masking
[AD-A139797] 15 p2383 N84-25289
Psychophysiological aspects of monotonous human activity 21 p3453 N84-31911
Quantitative assessment of role of spatial frequencies of images in visual recognition of numbers 21 p3455 N84-31928
A psychophysiological mapping of cognitive processes
[AD-A144557] 24 p3937 N84-34922

PSYCHROMETERS
Modern hygrometer. Is it an alternative to psychrometric humidity measurement? 02 p0234 N84-11535
Design and application of two stage evaporative cooling systems 11 p1640 N84-20720

PUBLIC HEALTH
A survey of body fat content of U.S. Navy male personnel
[AD-A131500] 01 p0113 N84-10736
Suggested state regulations for control fo radiation. Volume 2: Nonionizing radiation, lasers
[PB84-109669] 08 p1165 N84-17587
Progress in the prevention and control of air pollution in 1980 and 1981
[PB84-126788] 11 p1676 N84-20939
Health education of population in conection with widespread use of laser radiation 17 p2742 N84-27407
Land use planning for sources of nonionizing electromagnetic radiation
[PB84-156363] 17 p2771 N84-27584
Reactions to community noise 19 p3070 N84-29476
Guidelines for assessment and control of noise 19 p3070 N84-29477
Noise as a public health problem, volume 1
[AD-A142412] 21 p3436 N84-31799
Noise as a public health problem, volume 2
[AD-A142413] 21 p3436 N84-31800

PUBLIC LAW
NT LEGAL LIABILITY
NT PENALTIES
Paperwork Reduction Act amendments of 1983
[H-REPT-98-147] 02 p0303 N84-11989
Air pollution, environmental policy, and economics in the Federal Republic of Germany
[GHK-07] 05 p0701 N84-14601
Transport infrastructure: Is planning still achievable — airport planning 10 p1424 N84-19310
Compilation of selected aviation laws
[GPO-99-811] 11 p1752 N84-21438
Contractor fraud: Government response
[AD-P002833] 13 p2063 N84-23378
Paperwork Reduction Act of 1980
[S-REPT-98-479] 14 p2248 N84-24504

PUBLIC RELATIONS
Public response to hurricane probability forecasts
[PB84-158658] 14 p2182 N84-24077
Learning about supercomputers on a microcomputer with no keyboard: A science museum exhibit
[DE84-001177] 19 p3073 N84-29496

PUBLICATIONS
U DOCUMENTS

PUERTO RICO
The forest resources of Puerto Rico, Forest Service resource bulletin
[PB83-249995] 04 p0556 N84-13685
Water resources data for Puerto Rico, 1981 - 1982
[PB84-114701] 09 p1339 N84-18746
Application of remote sensing to state and regional problems
[E84-10128] 14 p2168 N84-23966

PULLEYS
Frictional hold of various sheave configurations on synthetic ropes
[AD-A139806] 15 p2343 N84-25067

PULLING
Human strength capabilities for the operation of parachute ripcords and riser releases
[AD-A138328] 12 p1868 N84-22174

PULMONARY CIRCULATION
Ventilation and ventilatory control in high altitude pulmonary edema and acute mountain sickness
[AD-A135941] 10 p1548 N84-20145

Immediate effects of hyperbaric oxygenation on body oxygen supply 21 p3455 N84-31923
Pulmonary artery location during microgravity activity: Potential impact for chest-mounted Doppler during space travel
[NASA-TM-58262] 21 p3457 N84-31935
PULMONARY FUNCTIONS
Influence of nitrogen dioxide on xenobiotic metabolism in animals
[PB83-239723] 02 p0265 N84-11743
Pulmonary dosimetry of nitrogen dioxide in animals and man
[PB83-243394] 03 p0414 N84-12711
Mathematical simulation of the cardiopulmonary system
[AD-A135480] 08 p1200 N84-17622
Work at high altitude: A clinical and physiological study at the United Kingdom Infrared Telescope, Mauna Kea, Hawaii
[REPT-11] 12 p1864 N84-22147
Biofeedback regulation of pulmonary ventilation 18 p2697 N84-28378
Integration of species sensitivity and dosimetry data in the extrapolation of ozone and nitrogen dioxide health data from animals to man
[PB84-195312] 22 p3631 N84-33010
PULSARS
Self-consistent models for Coulomb heated X-ray pulsar atmospheres
[NASA-TM-85087] 02 p0307 N84-12012
A search for radio pulsars in the Northern sky: Discovery of a pulsar in a unique binary system 03 p0462 N84-13040
Self-consistent magnetosphere for a static aligned rotator 04 p0619 N84-14085
PULSAR: A balloon-borne experiment to detect variable low energy gamma-ray
[INPE-2950-PRE/433] 07 p1093 N84-17106
A search for gravitational radiation from PSR 1937 + 214 08 p1185 N84-17717
Application of multivariate analysis to the parameters of parameters of astrophysical objects 09 p1408 N84-19199
Theoretical studies of the pulsar magnetosphere 21 p3437 N84-31809
Theoretical study of cepheid light curves
[DE84-012453] 21 p3523 N84-32322
High energy transients
[NASA-CR-173944] 23 p3838 N84-34347
Periodicity searches with IUE: Studies of pulsating galactic X-ray sources 24 p3981 N84-35218
Evidence for variations in the phase-dependent ionization structure of the stellar wind in Vela X-1 24 p3981 N84-35220
Nonlinear temporal modulation of pulsar radioemission
[INPE-3272-PRE/597] 24 p3995 N84-35282
PULSATING FLOW
U UNSTEADY FLOW
PULSE AMPLITUDE
Response of cracks in structural materials to short pulse loads
[AD-A131565] 02 p0231 N84-11519
Video processor for air traffic control beacon system
[NASA-CASE-KSC-11155-1] 06 p0829 N84-15395
Phase and amplitude control system for Stanford Linear Accelerator
[DE84-011773] 21 p3496 N84-32156
PULSE CODE MODULATION
NT DELTA MODULATION
NT DIFFERENTIAL PULSE CODE MODULATION
Posts and telecommunications
[AD-A133805] 05 p0667 N84-14390
Analysis of adaptive differential PCM (Pulse-Code Modulator) of a stationary Gauss-Markov input
[AD-A136518] 09 p1299 N84-18492
Research in stochastic processes
[AD-A136222] 09 p1381 N84-19018
Development of a non-volatile programmable digital to analog converter subsystem for PCM (Pulse-Code Modification) telemetry systems
[AD-A137878] 11 p1622 N84-20620
Contribution to the question bit error performance of CCITT study group 18
[FI-44-TBR-92] 12 p1810 N84-21799
Optical communication with laser diode arrays
[NASA-CR-173533] 14 p2150 N84-23879
Effect of RF filtering on the performance of uncoded PCM/PM telemetry channels 16 p2480 N84-25901
Maximum likelihood decoding of AMI-coded digital transmission and additive Gaussian disturbance
[FI-44-TBR-91] 16 p2482 N84-25917
Digital analysis of pulse code modulated signals in telecommunications channels 16 p2483 N84-25922
How to check line channel of IKM-15 digital pulse-code-modulation transmission system 17 p2633 N84-26842
Results of investigation of adaptive speech codes 21 p3376 N84-31428
PULSE COMMUNICATION
NT DIGITAL SPACECRAFT TELEVISION
On-line traffic monitor
[AD-A131356] 02 p0209 N84-11364
A flight investigation of simulated data link communications during single-pilot IFR flight 03 p0313 N84-12046
Satellite communication, part 1
[INPE-2893-PRE/417] 03 p0359 N84-12337
Design issues in the GCF Mark 4 development 04 p0520 N84-13415
Digital communications over satellite channels 05 p0664 N84-14365
Communication techniques: Measuring technique principles and application examples 05 p0671 N84-14410
Digital microwave transmission tests at the Pacific Missile Test Center, Pt. Mugu, California
[PB83-251454] 05 p0671 N84-14412
Digital communication in the presence of impulsive noise 06 p0827 N84-15392
Investigation into a digital modulation method for a frequency hopping system, using a low bit rate
[PHL-1983-44] 12 p1808 N84-21790
Evaluation of the comprehension of non-continuous, sped-up vocoded speech: A strategy for coping with fading HF (High Frequency) channels
[AD-A138650] 13 p1982 N84-22871
A practical terrestrial packet radio network
[AD-A139162] 14 p2140 N84-23829
Elastic buffers for digital rings
[NPL-DITC-38/84] 20 p3172 N84-30143
Performance of digital communications over selective fading channels
[AD-A142427] 20 p3174 N84-30158
Performance of digital communications over selective fading channels 21 p3381 N84-31456
Analysis of modern analog and digital communication channels from a manager's perspective
[AD-A143161] 21 p3387 N84-31494
Computer-based transmission monitor and control system
[PB84-202068] 22 p3639 N84-33069
Timing performance of phased-locked loops in optical pulse position modulation communication systems
[NASA-CR-173970] 23 p3824 N84-34253
PULSE COMPRESSION
A compact optical pulse compressor with computer-generated holographic masks for radar applications
[AD-A132152] 04 p0522 N84-13430
On the application of biphase coding in data communication systems
[EUT-82-E-132] 10 p1483 N84-19698
Five times compression of mode-locked argon ion laser pulses
[AD-A139635] 15 p2339 N84-25040
Effects of pulse width and coding on radar returns from clear air 17 p2684 N84-27092
The effects of pulse rate, power, width and coding on signal detectability 17 p2685 N84-27093
Pulse compression using binary phase codes 17 p2692 N84-27145
Plasma switch development
[AD-A143233] 22 p3586 N84-32711
PULSE DOPPLER RADAR
NT MONOPULSE RADAR
Sampling mismatch and timing jitter in pulse-Doppler radar
[AD-A134683] 08 p1144 N84-17447
A transceiver module of the Mu radar 17 p2692 N84-27147
Data analysis techniques: Spectral processing 17 p2695 N84-27168
Signal processing at the Poker Flat MST radar 17 p2695 N84-27169
A computer model for a multiple high PRF pulse Doppler radar
[AD-A142357] 20 p3173 N84-30152
PULSE DURATION
E-beam pulsewidth scaling for a large KrF laser
[DE83-013632] 01 p0087 N84-10571
Response of cracks in structural materials to short pulse loads
[AD-A131565] 02 p0231 N84-11519
Generation of coherent, vacuum ultraviolet and extreme ultraviolet radiation 05 p0665 N84-14370
Performance of the intense pulsed neutron source accelerator system
[DE84-003607] 07 p1072 N84-16966
Buildup and sustainment of 10(13) and cm(-3) plasma by ICRF in RFC-XX
[IPPJ-653] 10 p1580 N84-20356
Pulsed magnetic field testing of multifilamentary Nb3Sn superconducting wire
[DE84-008250] 15 p2414 N84-25492
Synthesis of frequency spectra based on use of multilevel pulse sequences 17 p2634 N84-26848
The effects of pulse rate, power, width and coding on signal detectability 17 p2685 N84-27093
The delta S (delta R)-2 question: The pulse-length dependence of signal power for Fresnel scatter 17 p2685 N84-27099
Klystron voltage pulse timing experiment
[DE84-011753] 20 p3177 N84-30176
Inductively stabilized, long pulse duration transverse discharge apparatus
[DE84-011301] 20 p3193 N84-30281
IRIS pulsing ruby light source 21 p3482 N84-32066
Propagation of nonlinear compression pulses through granular media 21 p3489 N84-32108
PULSE DURATION MODULATION
Study of a pulse width modulated, telemetered, microprocessor based data acquisition system 08 p1114 N84-17247
Effects of pulse width and coding on radar returns from clear air 17 p2684 N84-27092
Pulse stuttering as a remedy for aliased ground backscatter 17 p2685 N84-27098
Universal control grid modulator
[AD-D011108] 22 p3580 N84-32672
FET switching regulator
[AD-D011146] 23 p3735 N84-33665
PULSE GENERATORS
RAVEN, a 5-jK, 1.5-MV repetitive pulser
[DE83-013643] 01 p0071 N84-10465
A 2-MJ staged explosive generator
[DE83-013677] 01 p0072 N84-10474
Subnanosecond-rise-time, low-impedance pulse generator
[DE83-013793] 01 p0074 N84-10485
Small and light thyratron grid driver
[DE83-014941] 01 p0075 N84-10490
Coordinated research program in pulsed power physics
[AD-A129554] 01 p0138 N84-10905
Megavolt pulse transformer powered by a fast plate generator
[DE83-014189] 03 p0366 N84-12384
Solid state copper vapor laser modulator
[DE83-015837] 03 p0380 N84-12475
Monitoring of the Stanford Linac microbunches' position
[DE83-012712] 03 p0433 N84-12840
Magnetic switching
[DE83-012952] 03 p0433 N84-12841
Pulsed-power diode generation of high-power microwaves
[DE84-001344] 04 p0523 N84-13440
China builds first 6000kV type pulse voltage generator
[AD-A132564] 04 p0525 N84-13449
ELF/VLF (Extremely Low Frequency/Very Low Frequency) long path pulse program for antennas of arbitrary elevation and orientation
[AD-A133876] 05 p0667 N84-14388
Transmission lines for pulsed power applications
[DE84-002754] 05 p0676 N84-14446
Workshop on Solid State Switches for Pulsed Power
[AD-A132687] 05 p0754 N84-14945
Theory of pulse propagation and coherence in free electron
[AD-A133334] 06 p0850 N84-15544
Novette pulse-power-system description
[DE83-018185] 06 p0918 N84-15968
Silicon switch development for optical pulse generation in fusion lasers at Lawrence Livermore National Laboratory
[DE84-002798] 07 p1011 N84-16556
Thyristor converter for capacitive laser accumulators
[AD-A136051] 09 p1341 N84-18762
High voltage, low inductance hydrogen thyratron study program, phase 5
[DE84-000627] 10 p1487 N84-19721
Optical pulse generator using liquid crystal light valve 12 p1906 N84-22414
Coordinated research program in pulsed power physics
[AD-A139321] 14 p2142 N84-23843
Plasma physics issues in advanced simulation research
[AD-A139628] 15 p2410 N84-25465
Pulse and interval distributor with sensor control 17 p2637 N84-26867
Reference flat pulse generator
[PB84-162163] 17 p2672 N84-27030
Pulsed power research colloquium
[AD-A141318] 18 p2676 N84-28259

An experimental and theoretical investigation of an Nemp (nuclear electromagnetic pulse simulator) type fast rise lightning simulator
[AD-A141263] 18 p2690 N84-28346
Klystron voltage pulse timing experiment
[DE84-011753] 20 p3177 N84-30176
Lightning simulator circuit parameters and performance for severe-threat, high-action-integral testing
[DE84-009065] 20 p3181 N84-30211
High power RF klystrons for linear accelerators
[DE84-012074] 21 p3392 N84-31527
PIXE and PBFA 2: Pulsed X-ray source feasibility study
[DE84-011535] 21 p3496 N84-32155
Synchronization tracking in pulse position modulation receiver
[NASA-CASE-NPO-16256-1] 22 p3572 N84-32620
Distributed pulse forming network for magnetic modulator
[AD-D011062] 23 p3791 N84-34041
Joint services electronics program
[AD-A144445] 24 p3898 N84-34685

PULSE HEATING
SP-100 program: Space reactor system and subsystem investigations
[DE84-003217] 08 p1231 N84-18045
Advancement of developmental technology for pulse combustion applications
[PB84-215266] 22 p3564 N84-32576

PULSE HEIGHT
U PULSE AMPLITUDE

PULSE MODULATION
NT DELTA MODULATION
NT DIFFERENTIAL PULSE CODE MODULATION
NT PULSE CODE MODULATION
NT PULSE DURATION MODULATION
NT PULSE POSITION MODULATION
All-purpose bidirectional four-quadrant controller
01 p0011 N84-10070
Solid state copper vapor laser modulator
[DE83-015837] 03 p0380 N84-12475
Ohmic heating of the polar f-region by HF (High Frequency) pulse
[AD-A135946] 09 p1345 N84-18789
Self-pulsing and chaos in inhomogeneously broadened single-mode lasers 14 p2239 N84-24438
Pulse and interval distributor with sensor control
17 p2637 N84-26867
Radiometric calibration and processing procedure for reflective bands on LANDSAT-4 protoflight Thematic Mapper 20 p3206 N84-30366
Cold-cathode gas-discharge modulator power tube
21 p3379 N84-31443
Synchronization tracking in pulse position modulation receiver
[NASA-CASE-NPO-16256-1] 22 p3572 N84-32620

PULSE POSITION MODULATION
An easy-to-implement coding scheme for multifrequency PPM 16 p2479 N84-25896
Timing performance of phased-locked loops in optical pulse position modulation communication systems
[NASA-CR-173970] 23 p3824 N84-34253
Harmonic control to reduce torque pulsations in brushless dc motor drives
[AD-A144216] 24 p3897 N84-34677

PULSE RADAR
NT MONOPULSE RADAR
NT PULSE DOPPLER RADAR
A study of a class of detection waveforms having nearly ideal range-Doppler ambiguity properties
[AD-A132597] 05 p0669 N84-14401
Cavity detection and delineation research. Report 5: Electromagnetic (Radar) techniques applied to cavity detection
[AD-A132923] 05 p0670 N84-14407
Silent radar: A study of the performances of a navigational radar with limited range
[FOA-C-30334-E1] 08 p1146 N84-17461
A refined model for radar homing intercepts
[AD-A136108] 09 p1254 N84-18187
Pulse heterodyne equipment for measurements of range and velocity of moving targets — pulse radar
[DFVLR-FB-83-18] 10 p1483 N84-19686
On the estimation of spectral parameters using burst waveforms
[AD-A137932] 11 p1644 N84-20746
On the possibilities of single-antenna ionosphere sounding 17 p2631 N84-26829
The effects of pulse rate, power, width and coding on signal detectability 17 p2685 N84-27093
Pulse compression using binary phase codes
17 p2692 N84-27145
Decoders for MST radars 17 p2692 N84-27146
Design considerations for high-power VHF radar transceivers: The Poker Flat MST radar phase control system 17 p2692 N84-27148
Design considerations for high-power VHF radar transceivers: Phase matching long coaxial cables using a cable radar 17 p2693 N84-27149
HP-85/Mini-Ranger navigation system
[AD-A142131] 19 p2961 N84-28770
A 60 GHz pulse radar for detection of high voltage power lines
[BMFT-FB-W-84-013] 19 p3009 N84-29077

PULSE RATE
High power fast pulse lasers
17 p2673 N84-27033
The effects of pulse rate, power, width and coding on signal detectability 17 p2685 N84-27093
A voltmeter for remotely sensing high voltages
[AD-D011046] 19 p3027 N84-29199
Measurement of specific absorption rate in human phantoms exposed to simulated Air Force radar emissions
[AD-A143570] 22 p3631 N84-33007

PULSE RECORDERS
U COUNTERS

PULSE TIME MODULATION
NT PULSE DURATION MODULATION
NT PULSE POSITION MODULATION

PULSE WIDTH
U PULSE DURATION

PULSE WIDTH MODULATION
U PULSE DURATION MODULATION

PULSED JET ENGINES
Investigation of a pulsed electrothermal thruster
[NASA-CR-168266] 03 p0343 N84-12227

PULSED LASERS
NT Q SWITCHED LASERS
NT ULTRASHORT PULSED LASERS
NT ULTRAVIOLET LASERS
Remote sensing applications of pulsed photothermal radiometry
[AD-A130154] 01 p0086 N84-10563
Nd(3+): Yag laser pumped simultaneously by CW and pulsed light
[AD-A131092] 01 p0086 N84-10564
Pulse power for the RAPIER B amplifier KrF laser system
[DE83-012951] 01 p0088 N84-10573
Multiple-pulse laser-induced damage in crystaline and fused quartz
[DE83-015458] 01 p0154 N84-11015
Raising the surface damage threshold of neutral solution processed BK-7 by pulse laser irradiation
[DE83-012660] 02 p0225 N84-11477
Pulsed power bibliography. Volume 2: Annotated bibliography
[AD-A131753] 03 p0379 N84-12468
Pulsed power bibliography. Volume 1: Indices
[AD-A131752] 03 p0379 N84-12469
Laser-induced fluorescence spectroscopy for improved chemical analysis
[DE84-000829] 04 p0494 N84-13243
Design of a high-brightness, low-jitter, short-pulse laser for plasma diagnostics
[DE84-000129] 04 p0541 N84-13564
Analysis of short pulse laser altimetry data obtained over horizontal path
[NASA-CR-170612] 06 p0849 N84-15535
Copper vapor laser scale demonstration
[AD-A133327] 06 p0850 N84-15543
Measurements of CARS intensity in hydrogen molecule behind shock waves 07 p0984 N84-16375
Data reduction programs for a laser radar system
[NASA-CR-173152] 07 p0992 N84-16430
Pulsed laser melting: The effect of implanted solutes on the resolidification velocity
[DE84-003252] 07 p1010 N84-16552
Optical properties of metals
[AD-A134265] 07 p1075 N84-16987
Pulsed heterodyne CO2 laser/scanner system. Volume 1: Assembly report
[AD-A135059] 08 p1164 N84-17577
Pulsed heterodyne CO2 laser/scanner system. Volume 2: Operating instructions
[AD-A135060] 08 p1164 N84-17578
Communication system studies for the submarine laser communications system
[AD-A135661] 09 p1301 N84-18504
Repetitively pulsed electric laser acoustic studies, volume 1
[AD-A136538] 09 p1322 N84-18636
An intense excitation source for high power (Blue-green) laser
[AD-A135873] 09 p1322 N84-18637
Thyristor converter for capacitive laser accumulators
[AD-A136051] 09 p1341 N84-18762
Possibility of using pulsed CO2 lasers for radiation scattering diagnostics in Tokamak plasmas
[BLL-CTO-2199-(9091.9F)] 12 p1909 N84-22437
Controller for the electro-optical shutter of a dual pulse laser 13 p1968 N84-22776
Hollow cathode cell for pulsed lasers using metal vapors and their chemical compounds
13 p1968 N84-22778
Miniaturized pulsed CO2 laser with sealed electron source 13 p1969 N84-22782
Pulsed D2-F2 chain-laser damage to coated window and mirror components
[AD-A138911] 13 p1995 N84-22950
Satellite tracking and Earth dynamics research programs
[NASA-CR-173502] 14 p2112 N84-23661
Self-pulsing, breathing and chaos in optical bistability and the laser with injected signal
14 p2232 N84-24386
Selfpulsing, hysteresis and chaos in a standing wave laser 14 p2239 N84-24439
A z-pinch photo-pumped pulsed atomic iodine laser
[AD-A140033] 15 p2410 N84-25468
Use of fiber light guides for evaluation of precision characteristics of pulsed laser range finders
17 p2637 N84-26870
Photoelectric master means of measurement of energy and maximum power of pulsed lasers
17 p2637 N84-26872
Precision photometer for measurement of low levels of maximum power of pulsed laser radiation
17 p2638 N84-26873
Long-life, high-current thyratrons for fast discharge lasers
[AD-A140817] 17 p2663 N84-26991
Experimental and theoretical studies of laser propulsion phenomenology
[AD-A140995] 18 p2846 N84-29069
Computer modeling of pulsed chemical lasers
[AD-A141889] 19 p3029 N84-29212
Pulsed-laser generation of ultra-short acoustic pulses: Application for thin-film ultrasonic measurements
[AD-A141874] 19 p3100 N84-29690
Optical generation and detection of acoustic pulse profiles in gases for novel ultrasonic absorption spectroscopy
[AD-A141876] 19 p3104 N84-29720
Pulsed-laser atom-probe studies of surface chemical reactions
[DE84-012811] 20 p3151 N84-30007
Computer simulation of the Lasertron
[DE84-012242] 20 p3194 N84-30287
Simulations of erosion/corrosion surface chemical reactions with a laser beam
[AD-A143001] 21 p3366 N84-31354
Nd-3+ Beta prime prime alumina platelet laser
[AD-A142797] 21 p3409 N84-31621
Medical applications of lasers
21 p3452 N84-31904
A compact frequency-stable pulsed CO-2 laser
[AD-A143216] 22 p3600 N84-32806
Evaluation of bidirectionally conducting thyratrons for pulsed excimer lasers
[DE84-013890] 22 p3602 N84-32818
Growth of CdTe/HgTe superlattice with the LADA (Laser Assisted Deposition and Annealing) techniques
[AD-A143948] 23 p3830 N84-34295
Thermal effect of pulsed laser irradiation on the surface of metallic mirrors 24 p3869 N84-34519
Differential absorption lidar in space for temperature and humidity profiles in the atmosphere
24 p3907 N84-34748
Short-pulse laser and plasma surface interactions
[AD-A144538] 24 p3965 N84-35109

PULSED RADIATION
NT ELECTROMAGNETIC PULSES
NT SYSTEM GENERATED ELECTROMAGNETIC PULSES
Pulse signals in heterodyne and homodyne detection
[ESA-TT-809] 03 p0362 N84-12357
Pulsed-ion-irradiated microstructures in molybdenum
[DE84-000679] 04 p0504 N84-13304
Novette pulse-power-system description
[DE83-018185] 06 p0918 N84-15968
Temperature aspects of pulsed ion bombardment in an austenitic alloy
[DE84-003382] 08 p1134 N84-17376
Proposed second harmonic acceleration system for the intense pulsed neutron source rapid cycling synchrotron
[DE84-003601] 08 p1230 N84-18036
Analysis of the output mode from 60 GHz, 200 kW pulsed and CW gyrotrons
[DE84-004586] 10 p1497 N84-19785
Techniques of flash radiometry
[AD-A138412] 12 p1908 N84-22427
Investigation of short-pulse electron-beam propagation
[AD-A140383] 16 p2556 N84-26396

Transient response of GaAs microwave power FET to X-ray pulses
[DE84-006816] 19 p3019 N84-29139
Irradiation of optimized, MBE grown, AlGaAs radiation hardened photodiode
[DE84-008034] 21 p3504 N84-32208
Measurement of specific absorption rate in human phantoms exposed to simulated Air Force radar emissions
[AD-A143570] 22 p3631 N84-33007
Autogenerator of beams of charged particles
[DE84-014242] 22 p3654 N84-33163

PULSES
NT ELECTRIC PULSES
NT ELECTROMAGNETIC PULSES
NT GEOMAGNETIC PULSATIONS
NT MICROPULSATIONS
NT PICOSECOND PULSES
NT PRESSURE PULSES
NT SYSTEM GENERATED ELECTROMAGNETIC PULSES

Review of repetitive-pulse-power component technology
[DE83-011784] 01 p0073 N84-10475
High-average-power rep rate systems
[DE83-013760] 03 p0366 N84-12385
Comparative response of lead-acid and nickel-iron batteries to pulsed and constant-current loads
[DE83-017939] 03 p0368 N84-12395
Evolution of long pulses in a tapered wiggler free-electron laser
[DE83-017235] 03 p0381 N84-12484
Low-inductance, dual-feed diode development
[DE84-000117] 04 p0527 N84-13485
Workshop on Repetitive Spark Gap Operation
[AD-A132686] 05 p0675 N84-14438
An experimental study of steady and pulsating heat transfer in curved tubes 06 p0845 N84-15515
The harmonic structure of PC 3-4 magnetic pulsations at geosynchronous orbit and its relation to the solar wind 06 p0940 N84-16106
Theory of pulse propagation in fluid saturated porous layers
[DE84-002714] 07 p1003 N84-16503
Sensitivity and accuracy analysis of pulse diffusivity measurements on layered samples
[DE84-002104] 08 p1165 N84-17584
Volterra transfer functions from pulse tests for mildly nonlinear channels
[AD-A135703] 09 p1308 N84-18553
On the estimation of spectral parameters using burst waveforms
[AD-A137932] 11 p1644 N84-20746
High precision phase shifting techniques
[AD-A138397] 12 p1807 N84-21783
Observing system simulation experiments related to space-borne Lidar wind profiling. Part 2: Sensitivity to atmospheric and instrumental influences 12 p1850 N84-22053
Energetics of vortex ring formation
[AD-A136795] 13 p1927 N84-22539
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA-CASE-NPO-15494-2] 13 p1993 N84-22935
Critical slowing down and magnetically-induced self-pulsing in a sodium-filled Fabry-Perot resonator 14 p2240 N84-24449
Elastic-plastic deformation of pulse-loaded structures
[AD-A142350] 20 p3202 N84-30339
High-gradient, pulsed operation of superconducting niobium cavities
[DE84-012496] 20 p3311 N84-31030
Digital multi-tapped delay line with automatic time-domain programming
[AD-D011136] 22 p3581 N84-32676
Large aperture electro-optical switch
[DE84-013089] 22 p3588 N84-32728
Characterization of voltage losses during high-intensity current pulses in reactive, porous electrodes of molten salt cells
[DE84-012112] 22 p3589 N84-32730
A 50 kJ repetitively pulsed capacitor bank
[DE84-012959] 22 p3589 N84-32735

PULTRUSION
Roll-trusion (RT*) of composite structures
[AD-A140836] 17 p2618 N84-26757

PULVERIZING
U GRINDING (COMMINUTION)

PUMP IMPELLERS
Lateral forces on pump impellers: A literature review 10 p1507 N84-19863

PUMP SEALS
Hydraulic cylinder seals in arctic conditions
[VTT-207] 14 p2155 N84-23912

PUMPING
Determination of compressor in-stall characteristics from engine surge transients
[NASA-TM-83639] 13 p1932 N84-22566

PUMPS
NT AXIAL FLOW PUMPS
NT CENTRIFUGAL PUMPS
NT ELECTROMAGNETIC PUMPS
NT FUEL PUMPS
NT ION PUMPS
NT TURBINE PUMPS
NT VACUUM PUMPS

Prediction of hydraulic pump failures through wear debris analysis
[AD-A131386] 02 p0229 N84-11503
Microprocessor-based control system for flowing-electrolyte zinc-bromine battery systems
[DE83-012506] 03 p0369 N84-12403
Hydraulic hoisting and backfilling
[CSIR-ME-452] 04 p0532 N84-13498
Developing proto-type pump which would utilize unique thermo-dynamic cycle
[DE84-000323] 05 p0688 N84-14523
German/Indian cooperation program for solar powered water pumps, phase 1
[BMFT-FB-T-83-171] 07 p1026 N84-16651
Lateral forces on pump impellers: A literature review 10 p1507 N84-19863
Growth rates of parametric instabilities driven by two pumps
[AD-A139463] 14 p2229 N84-24364
Stability of pumps and compressors 16 p2489 N84-25963
Effect of shroud geometry on the effectiveness of a short mixing stack gas eductor model
[AD-A132173] 18 p2836 N84-28004
The design and testing of an electrolyte destratification system applied to a 96 V Alco 2200 battery
[PB84-184894] 20 p3237 N84-30550
The Shock and Vibration Digest, volume 16, no. 7
[AD-A143958] 21 p3418 N84-31679
Literature review of tilting pad and turbulent hydrostatic journal bearings for nuclear main coolant pumps 21 p3418 N84-31680
Detection of damage in hydraulic components by acoustic emission techniques
[AD-A143262] 22 p3607 N84-32850

PUPILS
Eye spectral sensitivity and its variation with luminance level
[RAE-TR-83043] 09 p1361 N84-18892

PURGING
Fuel system O-ring leaks on post P.D.M. (Programmed Depot Maintenance) C-5A aircraft
[AD-A137885] 11 p1606 N84-20519

PURIFICATION
NT AIR PURIFICATION

Analysis and synthesis of 1,2,4-butanetriol
[AD-A130875] 01 p0052 N84-10338
Fermilab satellite refrigerator compressors with the oil- and moisture-removal systems
[DE83-017328] 04 p0515 N84-13386
New polymers for low-gravity purification of cells by phase partitioning
[NASA-CR-170957] 06 p0809 N84-15267
Evaluation of organic carbon analyzers for space application — for water reclamation
[NASA-CR-171755] 09 p1317 N84-18607
Deep level impurities in germanium and silicon: Low temperature passivation or removal techniques
[DE84-006772] 13 p2048 N84-23286
Purification of nitrogen tetroxide for long-term reliability 20 p3137 N84-29920
Survey of the preparation, purity, and availability of silanes
[DE84-000090] 20 p3163 N84-30084
Temperature dependence of the Raman OH-stretching overtone from liquid water
[AD-A143131] 21 p3359 N84-31305
Obtaining iron-55 with high radiochemical purity
[CSIR-TRANS-1751] 22 p3553 N84-32494
Effect of feed gas trace components on the SRC-1 hydrogen purification unit
[DE84-012975] 22 p3562 N84-32556
Method of gas purification and system therefore
[DE84-014322] 23 p3720 N84-33582

PURIFIERS
U PURIFICATION

PURITY
A method for the preparation of small particles of pure compounds or of compounds containing small amounts of foreign elements
[FOA-C-20502-A1] 02 p0192 N84-11246
Large plate CdTe synthesis by sealed vessel transport
[AD-A134568] 07 p1061 N84-17027
Development of high purity IP crystals
[AD-A135937] 09 p1395 N84-19114
Purification of metals by zone melting. An optimization 15 p2307 N84-24839
Method and apparatus for producing high purity silicon
[DE84-011087] 20 p3163 N84-30090
Low cost solar array project. Experimental process system development unit for producing semiconductor-grade silicon using the silane-to-silicon process
[NASA-CR-173936] 23 p3769 N84-34034

PURSUIT TRACKING
An open loop missile evasion algorithm for fighters
[AD-A136834] 10 p1428 N84-19339
Development and flight test evaluation of an analytical model of the air-to-air tracking task
[AD-A138058] 12 p1772 N84-21555

PUSHBROOM SENSOR MODES
The modular optoelectronic scanner (MOMS) on STS-7, June 83 03 p0396 N84-12589
Remote sensing using the airborne MEIS 2 multidetector electro optical imaging scanner 03 p0397 N84-12592
L band push broom microwave radiometer: Soil moisture verification and time series experiment Delmarva Peninsula
[E84-10084] 10 p1520 N84-19955
Image quality of passive and active scanners
[MBB-UA-684-83-O] 16 p2564 N84-26449
Thermoelectric temperature control system for the pushbroom microwave radiometer (PBMR)
[NASA-TM-85824] 18 p2836 N84-28000

PWM (MODULATION)
U PULSE DURATION MODULATION

PYLONS
Dynamic assessment of B-52B-008 carrier aircraft for the revised Space Shuttle solid rocket booster decelerator subsystem drop test vehicle
[NASA-CR-170989] 12 p1779 N84-21606
Alpha jet pylon 14 p2093 N84-23556
Flight test techniques used for proof of structural integrity of Tornado when carrying external stores 24 p3849 N84-34413

PYRANOMETERS
Mapping of global radiation from Meteosat image data 10 p1536 N84-20065

PYRAZINES
NT AZINES

PYRENES
Exciplex ionic dissociation in non-polar solvent induced by multipolar salt complexes
[AD-A140919] 17 p2620 N84-26766

PYREX (TRADEMARK)
U BOROSILICATE GLASS

PYRIDINES
Vinyl styrylpyridines and their copolymerization with bismaleimide resins
[NASA-CASE-ARC-11429-1-CU] 07 p0979 N84-16341
Electrochemical and spectroscopic studies of polypyridine complexes of Fe(2)/(3) and Ru(2)/(3) in the aluminum chloride: N-(1-Butyl)Pyridinium chloride molten salt
[AD-A139170] 14 p2122 N84-23715
Human response to pyridostigmine bromide
[AD-A140960] 18 p2900 N84-28395
Surface-Enhanced Raman Scattering for redox-active adsorbates: Pentaammineosmium (3)/(2) and Pentaammineruthenium (2) containing nitrogen heterocycle ligands
[AD-A142418] 20 p3148 N84-29987
Determination of thermal-degradation rates of some candidate Rankine-cycle organic working fluids for conversion of industrial waste heat into power
[DE84-009585] 20 p3197 N84-30304
Investigation of thermal stability of fluorinol-85 and 2-methylpyridine-water as Rankine cycle power system working fluids
[DE84-008420] 22 p3562 N84-32559

PYRIMIDINES
NT MITOCHONDRIA
NT URACIL

PYROELECTRICITY
Organotin piezo- and pyroelectric polymer films
[DE83-009903] 02 p0201 N84-11306
Origin of pyroelectricity in polyvinilydene fluoride
[DE83-015227] 02 p0201 N84-11311
Pre-existing polarization and influence of electrode materials on PVF2 electrets as determined by thermal pulse and pyroelectric methods
[AD-A132696] 05 p0659 N84-14335
Pyroelectric conversion in space: A conceptual design study
[NASA-CR-168272] 05 p0699 N84-14585

Photothermal spectroscopy using a pyroelectric thin film detector
[AD-A134291] 07 p0969 N84-16281
Chinese journal of infrared research (Selected articles)
[AD-A135504] 08 p1232 N84-18051
Sensor head performance, responsivity and NETD using pyroelectric linear arrays — noise equivalent temperature difference (NETD)
[RSRE-MEMO-3608] 09 p1317 N84-18605
Studies and tests of pyroelectric vidicons
[FOA-C-30317-E1] 10 p1489 N84-19738
Effect of space exposure on pyroelectric infrared detectors (A0135) 15 p2278 N84-24679

PYROGRAPHALLOY
U COMPOSITE MATERIALS
U PYROLYTIC GRAPHITE
U REFRACTORY MATERIALS

PYROHELIOMETERS
Linear Fresnel lens photovoltaic concentrator program
[DE84-002971] 08 p1180 N84-17689

PYROLYSIS
Correlation of electrical conductivity and thermal decomposition of phenolic materials
[DE83-009186] 01 p0074 N84-10487
Spray combustion of synthetic fuels. Phase 2. Spray-combustion phenomena
[DE83-014541] 02 p0191 N84-11242
Studies related to the deep Earth gas
[PB83-244004] 02 p0251 N84-11644
Soot formation from polycyclic aromatics
[DE83-009750] 03 p0349 N84-12271
Current researches on fire retardant materials in Japan 04 p0510 N84-13342
Fire and smoke retardants 04 p0510 N84-13343
Identification and characterization of elastomer vulcanizate materials using pyrolytic gas liquid phase chromatography
[AD-A134056] 05 p0658 N84-14325
Mesophase behavior fundamental to the processing of carbon-carbon composites
[AD-A134283] 07 p0968 N84-16270
Transient horizontal flame spread tests on cellular plastics - experimental results, volume 1
[PB84-135458] 10 p1469 N84-19595
Convective heating of energetic materials 13 p1949 N84-22672
A shock tube study of chlorine azide decomposition 13 p1958 N84-22728
Chemical utilization of the olefinic byproducts in pyrolysis naphtha by carbonylation and alkylation reaction
[BMFT-FB-T-84-064] 19 p2965 N84-28914
Organosilane polymers. 5: Hydrosilyl-modified polycarbosilane precursors for silicon carbide
[AD-A141546] 19 p2999 N84-29002
Combustion of GAP, part 1 20 p3142 N84-29952
Low cost, sprayed CuInSe2 solar cell research
[DE84-010480] 20 p3235 N84-30533
Laser-assisted solar cell metallization processing
[NASA-CR-173875] 21 p3409 N84-31619
Solar-heated oil shale retort
[NASA-CASE-NPO-16392-1] 22 p3616 N84-32912
A comparative study in the animal of the toxicity of the combustion products of diverse materials 22 p3632 N84-33015
Thermal degradation studies of segmented thermoplastic elastomers
[AD-A143954] 23 p3724 N84-33800

PYROLYTIC GRAPHITE
A multistage spent particle collector and a method for making same
[NASA-CASE-LEW-13914-1] 03 p0376 N84-12447
Ion sputter textured graphite electrode plates
[NASA-CASE-LEW-12919-2] 18 p2928 N84-28565
Anisotropic diffusion kinetics of metals and carbides in pyrolytic graphite
[BLL-CTO-2261-(9091.9F)] 19 p2991 N84-28953
Secondary electron emission characteristics of ion-textured copper and high-purity isotropic graphite surfaces
[NASA-TP-2342] 19 p2997 N84-28989

PYROLYTIC MATERIALS
NT PYROLYTIC GRAPHITE

PYROMETALLURGY
Study of the recovery of valuable metal starting materials from steelworks slag
[BMFT-FB-T-83-183] 10 p1532 N84-20034

PYROMETERS
NT THERMOCOUPLE PYROMETERS
Civil applications of infrared techniques
[BMFT-FB-T-83-132] 02 p0267 N84-11753
Three-color pyrometer for burning particle temperature measurement 13 p1943 N84-22635
Fiberoptic probe for measuring high frequency temperature fluctuations in combustion gases
[DE84-006784] 14 p2148 N84-23869
A sensitive optical pyrometer for shock-temperature measurements
[NASA-CR-173602] 16 p2495 N84-26011

PYROMETRY
U TEMPERATURE MEASUREMENT

PYROPHORIC MATERIALS
Heat-storage materials for IRCM
[AD-A133110] 06 p0917 N84-15861
Evaluation of material of thermal response
[DGT-23.190A] 16 p2474 N84-25856

PYROTECHNICS
Surface compatibility studies of potassium perchlorate reaction with pyrotechnic fuels
[DE84-002829] 08 p1140 N84-17412
Potassium perchlorate reaction with pyrotechnic fuels
[DE84-002840] 08 p1140 N84-17413
Resonance line broadening of alkali metals in pyrotechnic flames
[AD-A135685] 09 p1279 N84-18355
Determination of Cr(6) and Cr(3) by ICP
[DE83-016627] 10 p1457 N84-19515
Pyrotechnic shock test and test simulation 10 p1508 N84-19873
Guide for designing pyrotechnics systems for payloads on manned or unmanned vehicles
[SNIAS-NT-2-01(0)] 12 p1803 N84-21757
Ignitibility studies of LOVA propellants — low vulnerability gun propellants 13 p1950 N84-22676
Shock response spectra variational analysis for pyrotechnic qualification testing of flight hardware
[NASA-TP-2315] 14 p2115 N84-23676
On-site survey and analysis of pyrotechnic mixer bays
[AD-A139485] 14 p2132 N84-23779
Evaluation of material of thermal response
[DGT-23.190A] 16 p2474 N84-25856
Visible pyrotechnic flare spectroscopy using vidicons
[AD-A140283] 16 p2474 N84-25857
Visible spectra of standard Navy colored flares
[AD-A140342] 16 p2474 N84-25858
Pyrotechnic shock: A literature survey of the Linear Shaped Charge (LSC)
[NASA-TM-82583] 18 p2852 N84-28109
Annual meeting of the Pyrotechnics and Explosives Applications Section on the American Defense Preparedness Association
[AD-A143157] 21 p3373 N84-31406
Effect of thermal aging on the output of a pyrotechnic actuator
[DE84-012903] 22 p3562 N84-32558

PYROXENES
Lunar sample analysis
[NASA-CR-171771] 11 p1758 N84-21477

PYROXYLIN
U CELLULOSE NITRATE

PYRROLES
NT CARBAZOLES
NT TRYPTOPHAN
Electrochemical polymerization of pyrrole and electrochemistry of polypyrrole films in ambient temperature molten salts
[AD-A139174] 14 p2122 N84-23716
Design, analysis and test verification of advanced encapsulation systems
[NASA-CR-173941] 23 p3789 N84-34028

P3V AIRCRAFT
U P-3 AIRCRAFT

P78-2 SATELLITE
U SCATHA SATELLITE

Q

Q FACTORS
Low temperature quartz crystal oscillator fast warm-up SAW oscillator
[AD-A138024] 12 p1811 N84-21806
High-Q open resonator structures with sparse spectrum 20 p3268 N84-30876

Q SWITCHED LASERS
Laser Resonator
[NASA-CASE-GSC-12565-1] 05 p0686 N84-14509
Laser-plasma interaction and self organization phenomena in magnetoplasmas 10 p1584 N84-20382
High speed crystal growth by Q-switched laser melting 18 p2938 N84-28637

QCD
U QUANTUM CHROMODYNAMICS

QSO (RADIO SOURCES)
U QUASARS

QUADRANTS
Procurement of materials required to fabricate and test space-qualified quadrant photo tubes for the SHAD satellite sensor
[AD-A139662] 15 p2280 N84-24698

QUADRATIC EQUATIONS
Absolutely unstable stimulated Brillouin scattering and 2-plasmon decay
[DE84-000823] 04 p0611 N84-14032
Synthesis of insensitive controllers in linear quadratic control problems
[REPT-605] 06 p0900 N84-15841
Suboptimal LQ control problem using reconstructed state feedback control law 07 p0982 N84-16364
Quadratic fields and factorization 08 p1225 N84-18002
On the Z sub 2 extensions of an imaginary quadratic field 13 p2031 N84-23173
Bivariate quadratic splines on criss-cross triangulations
[AD-P002979] 14 p2202 N84-24215

QUADRATIC PROGRAMMING
User's guide for SOL/NPSOL: A FORTRAN package for nonlinear programming
[DE83-016903] 03 p0421 N84-12751
User's guide for SOL/QPSOL: A FORTRAN package for quadratic programming
[DE83-016990] 03 p0421 N84-12752
La Recherche Aerospatiale, Bimonthly Bulletin, no. 1982-4, 209/July-August 1982
[ESA-TT-781] 04 p0477 N84-13141
More results on the convergence of iterative methods for the symmetric linear complementarity problem
[AD-A132663] 05 p0738 N84-14846
Solution of dynamic optimization problems by successive quadratic programming and orthogonal collocation
[AD-A137338] 10 p1563 N84-20238

QUADRATURE APPROXIMATION
U QUADRATURES

QUADRATURES
Rates of convergence of Gaussian quadrature for singular integrands
[CSIR-TWISK-288] 07 p1059 N84-16865
Numerical evaluation of finite Fourier integrals
[CSIR-TWISK-273] 07 p1060 N84-16866
Gaussian quadrature formulae for tetrahedronal regions
[ISD-307] 15 p2396 N84-25377
Orbit maneuvers with finite thrust
[MBB-UR-654-83-O] 16 p2455 N84-25741
Distribution results for positive definite quadratic forms with repeated roots
[AD-A143450] 22 p3645 N84-33115
Optical propagation and communication 22 p3683 N84-33355

QUADRUPOLES
Three-dimensional equilibrium in quadrupole symmetric tandem mirrors in the paraxial limit (reduced MHD)
[DE83-017840] 03 p0447 N84-12940
Operational studies and expected performance of superconducting quadrupole magnets in the first stages of secondary beams
[DE83-016734] 03 p0456 N84-12999
Ideal of the perfect magnet-superconducting systems
[DE83-015060] 04 p0529 N84-13482
The gaseous and plasma environment around space shuttle
[AD-A133900] 05 p0643 N84-14231
Design and fabrication of the BNL radio frequency quadrupole
[DE84-001456] 05 p0671 N84-14409
White Horse program review, FY 82
[DE84-002290] 05 p0745 N84-14896
Design desiderata for a laminar flow quadrupole-focused acceleration column
[DE84-006534] 12 p1903 N84-22395
RFQ development at LBL
[DE84-006762] 13 p2045 N84-23271
Practical aspects of tuning a ringed RFQ
[DE84-011366] 20 p3175 N84-30163
General-purpose RFQ design program
[DE84-011327] 20 p3175 N84-30165
RFQ radial matching sections and fringe fields
[DE84-011406] 20 p3295 N84-30920
Operational parameters of a 2.0-MeV RFQ linac
[DE84-011368] 21 p3387 N84-31498
RFQ simulation code
[DE84-011385] 21 p3387 N84-31499

QUALIFICATIONS
Color perception and ATC job performance
[AD-A132649] 06 p0890 N84-15781
Economic cases of the Civil Aeronautics Board, Volume 101, April 1983 to May 1983
[PB84-127695] 09 p1405 N84-19183
Economic cases of the Civil Aeronautics Board, Volume 102, June 1983 to July 1983
[PB84-127703] 09 p1405 N84-19184
Environmental qualification tests, signal conditioning unit, SD802 materials experiment
[AD-A138910] 13 p1967 N84-22697

Qualifications of ultrasonic testing for nuclear inservice inspection applications
[DE84-011699] 20 p3200 N84-30323
Qualification tests and electrical measurements: Practice and problems 22 p3585 N84-32703
Qualification testing and electrical measurement experience: A manufacturer's view 22 p3585 N84-32705
Qualification testing for a central station 22 p3585 N84-32706
Development of accelerated fuel-engine qualification procedures
[AD-A143845] 23 p3693 N84-33406

QUALITATIVE ANALYSIS
Determination of a jet fuel metal deactivator by high performance liquid chromatography
[AD-A132220] 04 p0509 N84-13336
Detection of elements in biomedical fluids by laser-induced breakdown spectroscopy
[DE84-003838] 08 p1126 N84-17319

QUALITY
NT AIR QUALITY
NT ENVIRONMENTAL QUALITY
NT RIDING QUALITY
NT WATER QUALITY
An evaluation of automated control of the oxyfuel cutting process for M1 vehicle fabrication
[AD-A134073] 05 p0688 N84-14520
Integrated evaluation of the quality of steel cable wire
[BLL-M-35267-(5828.4)] 06 p0854 N84-15564
Analysis of laser spot quality
[AD-A138056] 12 p1820 N84-21861
Tools to aid in improving software quality: Application to a structural editor
[ENST-E-83013] 16 p2544 N84-26331
Aircraft, ships, spacecraft, nuclear plants and quality
[DE84-013262] 22 p3655 N84-33166

QUALITY CONTROL
Quality control and nondestructive evaluation techniques for composites. Part 2: Physiochemical characterization techniques, a state-of-the-art review
[AD-A131038] 01 p0032 N84-10200
Dissecting composite parts: A valuable aid in concept design and nondestructive control 01 p0033 N84-10207
Sterile devices: A GMP (Good Manufacturing Practices) workshop manual
[PB83-226563] 01 p0061 N84-10400
A special bounded sequential procedure
[AD-A130403] 01 p0129 N84-10847
The heterocedastic method: Theory and applications
[AD-A129525] 01 p0137 N84-10895
Bottom Line Academia Conference — quality management education
[AD-A131043] 01 p0159 N84-11048
Poor quality aircraft exterior surfaces cause greater fuel expenditures 02 p0167 N84-11095
Application guidelines for quality assurance procedures for hybrid microcircuits
[AD-A131395] 02 p0214 N84-11405
A conceptual study of automatic and semi-automatic quality assurance techniques for round image processing
[NASA-CR-170610] 02 p0230 N84-11508
Quality is not a dirty word
[DE83-012166] 03 p0385 N84-12510
Quality control and sample comparison by differential modal analysis
[MBB-BB-543-83-OE] 03 p0386 N84-12514
Development of an ultrasonic testing procedure for electron beam welded parts for aerospace applications
[BMFT-FB-W-72-011] 03 p0386 N84-12515
Management of QA in an R and D organization
[DE83-016924] 03 p0458 N84-13014
A guide for effluent radiological measurements at DOE installations
[DE83-016639] 04 p0538 N84-13542
Manufacturing methods and technology (MANTECH) program. Quality control and nondestructive evaluation techniques for composites. Part 6: Acoustic emission: A state-of-the-art review
[AD-A132821] 05 p0645 N84-14245
Reliability programs for nonelectronic designs, volume 2
[AD-A133625] 05 p0689 N84-14528
Reliability programs for nonelectronic designs, volume 1
[AD-A133624] 05 p0689 N84-14529
Software engineering — conferences
[ESA-SP-199] 05 p0721 N84-14729
IDA: Computer-aided testing of real-time software 05 p0722 N84-14736
A user's view of the Statistic Analysis Package (SAP): A new software quality assurance tool for FORTRAN programs 05 p0722 N84-14738
Qualigraph: A software tool for quality metrics and graphic documentation 05 p0723 N84-14739
Requirements on reliability models, and their consequences 05 p0723 N84-14740
Practical impact of an integrated workbench on the quality assurance of embedded software 05 p0723 N84-14741
The role of quality assurance in the development of software for space applications 05 p0723 N84-14743
Project management and quality assurance in a multiapplication environment — software quality 05 p0723 N84-14745
Software quality assurance Spacelab experience and future trends 05 p0725 N84-14759
Integrated evaluation of the quality of steel cable wire
[BLL-M-35267-(5828.4)] 06 p0854 N84-15564
Mechanical property characterization of F-100/934 graphite-epoxy composite material 06 p0926 N84-16031
Manual of analytical methods for radiobioassay
[DE84-003978] 08 p1126 N84-17318
Mini-Seminar on Quality Assurance
[CSIR-TSD-0006/82] 08 p1167 N84-17600
Quality management in procurement 08 p1167 N84-17601
Management input in quality 08 p1168 N84-17602
Design QA on a small batch project 08 p1168 N84-17603
Measuring quality achievements 08 p1168 N84-17605
Computer Science and Technology: Proceedings of the 19th Meeting of the Computer Performance Evaluation Users Group (CPEUG)
[PB84-114529] 08 p1210 N84-17892
Automotive Stirling engine development program
[NASA-CR-168205] 08 p1242 N84-18117
Integrity control of carbon fiber reinforced plastics structural elements, phase 1 report — space applications
[TB-TS-11-01/82-A] 09 p1289 N84-18416
Improving a chemical method to determine the epoxy equivalent in epoxy resins
[REPT-I-4/241/720/83.063] 10 p1469 N84-19593
Electronics/electrical manufacturing industry research needs
[PB84-122969] 11 p1648 N84-20774
New quality assessment procedure for exchange area cable transmission parameters 11 p1720 N84-21218
Ultrasonic angle beam standard reflector
[NASA-CASE-LAR-13153-1] 11 p1728 N84-21274
Intercenter Problem Reporting and Corrective Action System (PRACAS) 11 p1748 N84-21408
Reliability assurance using test structures, phase 2 — MOS testing
[ESA-CR(P)-1827-VOL-1] 12 p1825 N84-21894
Reliability assurance using test structures, phase 3 — MOS testing
[ESA-CR(P)-1827-VOL-2] 12 p1825 N84-21895
Software interoperability and reusability, volume 1
[AD-A138477] 12 p1883 N84-22276
Software interoperability and reusability. Volume 2: Guidebook for software quality measurement
[AD-A138478] 12 p1884 N84-22277
Static analysis package
[REPT-71.3794] 12 p1884 N84-22283
Priorities for detailed quality assessments of the National Defense Stockpile nonfuel materials
[NMAB-403] 13 p2006 N84-23011
Users guide for ERB 7 MAT (including the first year quality control)
[NASA-CR-170514] 13 p2026 N84-23134
Quality assurance - Air Force Logistics Command
[AD-P002816] 13 p2060 N84-23361
The avionics integrity program (AVIP)
[AD-P002817] 13 p2060 N84-23362
Quality at the crossroads
[AD-P002818] 13 p2060 N84-23363
A quality improvement strategy for systems acquisition
[AD-P002820] 13 p2061 N84-23365
Engine product performance agreements and the future
[AD-P002821] 13 p2061 N84-23366
Assessment of the NASA Flight Assurance Review Program
[NASA-CR-173418] 13 p2066 N84-23401
Nondestructive Evaluation Technology Working Group report (IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability study)
[AD-A139484] 14 p2156 N84-23919
Certifying onboard software: A total progressive approach 15 p2269 N84-24625
Quality control in large systems development phase
[SNIAS-832-422-102] 15 p2346 N84-25074
Manufacturing methods and technology engineering for 'Growth of large diameter Nd:YAG laser crystals'
[AD-A139902] 15 p2413 N84-25486
The repair and modification of printed-circuit boards and solder joints for space use
[ESA-PSS-01-728-ISSUE-1] 16 p2477 N84-25681
Product assurance requirements for micro VCM-apparatus and associated equipment
[ESA-PSS-01-711-ISSUE-1] 16 p2496 N84-26013
Basic requirements for product assurance of ESA spacecraft and associated equipment
[ESA-PSS-01-0-ISSUE-1] 16 p2499 N84-26034
Quality assurance of ESA spacecraft and associated equipment
[ESA-PSS-01-20-ISSUE-1] 16 p2499 N84-26036
Software quality assurance for ESA spacecraft and associated equipment
[ESA-PSS-01-21-ISSUE-1] 16 p2500 N84-26037
Software quality assurance plans
[ESA-PSS-01-101-ISSUE-1] 16 p2500 N84-26041
Quality assurance of test houses for ESA spacecraft and associated equipment
[ESA-PSS-01-203-ISSUE-1] 16 p2500 N84-26042
The control of limited life materials
[ESA-PSS-01-722-ISSUE-1] 16 p2500 N84-26047
Siemens strategy includes DM 1 billion for submicrons IC's 17 p2640 N84-26893
Comparison of some software reliability models for simulated and real failure data
[NLR-MP-83032-U] 17 p2754 N84-27481
Application of liquid column chromotography to the study of lubricant oils and ester separation 18 p2819 N84-27903
Batch and continuous recrystallization of secondary explosives
[DE84-009735] 19 p3002 N84-29024
Effect of manufacturing errors on field quality of the LBL SSC dipoles
[DE84-009224] 19 p3033 N84-29238
Quality engineering and control
[DE84-011603] 20 p3150 N84-30001
Evaluation of sampling methods for gaseous atmospheric samples
[PB84-190735] 20 p3151 N84-30012
Quality control analysis of TA-23 glass seals for lithium ambient temperature batteries
[DE84-011719] 20 p3164 N84-30094
Operator performance on flat-panel displays with line and cell failures
[AD-A142340] 20 p3265 N84-30716
Quality Assurance (QA) procedures for computer software in department 1510
[DE84-012131] 20 p3273 N84-30778
SLATEC mathematical subprogram library, version 2.0
[DE84-010750] 20 p3274 N84-30782
Software quality assurance programs: Key elements of concern in selected commercial approaches
[DE84-009486] 20 p3274 N84-30785
Quality-assurance tests of five Y-12 Kevlar-49 spools used to fabricate strands and reliability specimens for stress-rupture tests
[DE84-012373] 21 p3357 N84-31295
Lower confidence bounds on system reliability using component data: Maximum methodology
[DE84-012813] 21 p3415 N84-31658
Software progress tracking system
[AD-P003486] 21 p3513 N84-32255
Automated software testing
[AD-P003498] 21 p3515 N84-32264
Correlational estimation of parameters of solid state microwave devices 22 p3570 N84-32609
Physical properties of CdTe films grown by hotwall and molecular beam techniques
[AD-A143180] 22 p3662 N84-33214
Scientific and technical information transfer: Issues and options
[RAND/N-2131-NSF] 22 p3673 N84-33286
Simulation of the reaction of optical systems in the manufacturing process
[BMFT-FB-T-84-128] 23 p3728 N84-33622
Development of hardware and software for automatic optical surface inspection with laser scanners
[BMFT-FB-T-84-111] 23 p3755 N84-33805
Capacity selector valve electronics enclosure assembly controller card assembly test specifications: Revision
[AD-A144349] 24 p3898 N84-34682
Industrial optodigital inspection system 24 p3942 N84-34955
ICAM (Integrated Computer Aided Manufacturing) conceptual design for computer-integrated manufacturing. Volume 4, part 5, task D: Quality assurance/quality, control/technical requirement/tasks, quality assurance modeling and analysis, architecture for product assurance, (TTD)
[AD-A144691] 24 p3948 N84-34999

QUALITY FACTORS
U Q FACTORS
QUANTILES
Robust ABLUE's (Asymptotically Best Linear Unbiased Estimators) for location and scale parameter estimation
[AD-A130752] 01 p0132 N84-10667
A note on optimal and robust spacing selection
[AD-A130427] 01 p0136 N84-10668
Time series model identification by estimating information, memory and quantiles
[AD-A131155] 02 p0281 N84-11843
Quantile data analysis of image data
03 p0393 N84-12565
A user's guide to ARSPIQ: The univariate time series analysis program for autoregressive spectral information quantile identification
[AD-A132217] 04 p0581 N84-13831
Informative quantile functions and identification of probability distribution types
[AD-A132723] 05 p0740 N84-14861
Experimental designs for quantal response models
[AD-A133416] 06 p0901 N84-15851
QUANTITATIVE ANALYSIS
Development of a method and apparatus for quantitative assessment of the iron content of rocks and ores by means of data obtained from borehole radiometry
[BLL-M-28724-(5828.4)] 02 p0246 N84-11613
Determination of a jet fuel metal deactivator by high performance liquid chromatography
[AD-A132220] 04 p0509 N84-13336
Point-by-Point matrix effect calibration for the quantitative analysis of layered semiconductors by secondary ion mass spectrometry
[AD-A134099] 05 p0752 N84-14933
Development of quantitative infrared analysis for monitoring water and emulsifying agents in fire-resistant microemulsion diesel fuels
[AD-A133242] 06 p0812 N84-15286
Cyclic voltammetry of polysulfide (Thiokol) prepolymers and related compounds
[MRL-R-911] 06 p1136 N84-17387
Improving a chemical method to determine the epoxy equivalent in epoxy resins
[REPT-I-4/241/720/83.063] 10 p1469 N84-19593
Grid-based line drawing quantization
[AD-A138194] 12 p1881 N84-22261
On the generation and use of quantitative criteria for assessing software maintenance quality
13 p2025 N84-23128
Characterization of Acetylene Terminated Sulfone (ATS-G)
[AD-A141348] 18 p2819 N84-27897
Quantitative analysis of satellite infrared imagery using digital storage equipment
[INPE-2978-PRE/440] 22 p3639 N84-30074
QUANTIZATION
U MEASUREMENT
QUANTIZER
U COUNTERS
QUANTUM AMPLIFIERS
Demonstration of SQUID (Superconducting QUantum Interference Device) parametric amplifier
[AD-A141326] 18 p2834 N84-27992
QUANTUM CHEMISTRY
Application of quantum chemistry to atmospheric chemistry — uranium oxide
[AD-A133836] 05 p0648 N84-14261
Application of the density matrix multipole expansion to stark quantum beats from beam-foil-excited hydrogen atoms
[AD-A133603] 06 p0797 N84-15193
The hydrogen molecule for a two-dimensional system — doped semiconductors
[INPE-2981-PRE/443] 07 p1071 N84-16958
Quantum chemical investigations of the mechanism of cationic polymerization and theoretical prediction of crystal densities and decomposition pathways of energetic molecules
[AD-A137271] 10 p1465 N84-19571
Prediction of transition states and thermochemistry for combustion reactions
[AD-A140738] 17 p2619 N84-26761
Quantum chemical study of methane oxidation species
[NASA-CR-173819] 19 p2967 N84-28928
The structural chemistry of energetic compounds
[AD-A143955] 23 p3822 N84-34237
QUANTUM CHROMODYNAMICS
Axions in cosmology
[DE83-015590] 01 p0156 N84-11028
Photon-photon production in hadron-hadron collisions
[DE83-015948] 02 p0292 N84-11912
Quark-gluon plasma formation
[DE83-017742] 03 p0436 N84-12861
Hadron-hadron collider group
[DE83-010704] 03 p0437 N84-12865
Physics at very high energies
[DE83-012854] 03 p0438 N84-12878
Research in theoretical physics
[DE83-0166222] 03 p0458 N84-13004
Meson-exchange Hamiltonian for NN scattering and isobar-nucleus dynamics
[DE83-017974] 04 p0600 N84-13959
Theoretical perspectives on strange physics
[DE83-018085] 04 p0601 N84-13965
The e+/e- collisions in the multi-TeV region
[DE84-000993] 04 p0601 N84-13966
Soliton bag: Dynamics and the quark plasma
[DE84-001103] 05 p0745 N84-14895
Monte Carlo simulation of high p/sub P jets
06 p0911 N84-15915
Problems at the interface between perturbative and nonperturbative quantum chromodynamics
[DE84-002375] 06 p0926 N84-16018
Research in theoretical nuclear physics
[DE84-003442] 08 p1230 N84-18036
A highly optimized vectorized code for Monte Carlo simulations of SU(3) lattice gauge theories
10 p1560 N84-20219
Backward moving Altarelli-Parisi equations for transverse momentum calculations in jets
[ILL-(TH)-84-10] 11 p1712 N84-21164
Research in theoretical nuclear physics
[DE84-006976] 12 p1902 N84-22387
Research program in elementary particle theory
[DE84-006867] 14 p2223 N84-24338
Electron scattering: Lectures given at ANL
[DE84-006889] 15 p2414 N84-25491
Theoretical high energy physics research
[DE84-009785] 19 p3103 N84-29716
Indiana University Theoretical Particle Physics Group
[DE84-010593] 20 p3293 N84-30903
Usual initial and final state effects in quantum chromodynamics
[DE84-010422] 21 p3495 N84-32148
Applied chromodynamics
[DE84-009135] 21 p3495 N84-32152
Theoretical high energy physics
[DE84-011854] 21 p3495 N84-32153
Numerical calculations in quantum field theories
[DE84-010892] 21 p3507 N84-32217
Weak coupling tests of lattice QCD
[DE84-013440] 23 p3831 N84-34299
QUANTUM COUNTERS
Resonant parametric transducer
[IFSI-83-10] 18 p2835 N84-27995
QUANTUM EFFICIENCY
Evaluation of Hamamatsu R1635 photomultiplier
[DE84-001252] 04 p0527 N84-13468
XeF pumped Tm:YLF laser scaling
[AD-A140004] 15 p2339 N84-25041
Efficient forward conversion in a Raman generator
[DE84-007466] 20 p3194 N84-30285
Neutron damage effects in AlGaAs/GaAs solar cells
[DE84-009448] 21 p3435 N84-31791
Quantum transport in low dimensional disordered systems 22 p3682 N84-33347
A model of the performance characteristics of silicon-gallium infrared detectors for low background applications
[AD-A143932] 23 p3825 N84-34256
QUANTUM ELECTRODYNAMICS
Realization of first order optical systems using thin lenses
[DE84-002848] 05 p0747 N84-14909
High sensitivity comparison of potential differences between two Josephson junctions
05 p0752 N84-14930
Current trends in atomic spectroscopy
[PB84-162957] 13 p1959 N84-22732
Electron scattering: Lectures given at ANL
[DE84-006889] 15 p2414 N84-25491
Electromagnetic effects in strong field of single crystals 21 p3485 N84-32084
Chemical lasers 21 p3486 N84-32093
Relativistic calculations and measurements of energies, Auger rates, and lifetimes
[AD-A143423] 22 p3663 N84-33220
Optics and quantum electronics
22 p3682 N84-33343
QUANTUM ELECTRONICS
Research in electronics: Joint services electronics program
[AD-A130791] 01 p0072 N84-10470
Joint services electronics program
[AD-A130985] 02 p0213 N84-11392
Theory of pulse propagation and coherence in free electron
[AD-A133334] 06 p0850 N84-15544
Solid state research work of the Solid State Division at Lincoln Laboratory
[AD-A134594] 07 p1061 N84-17028
Research Laboratory of Electronics
[AD-A135319] 08 p1150 N84-17488
RLE (Research Laboratory of Electronics)
[AD-A134812] 08 p1151 N84-17495
Joint services electronics program
[AD-A136058] 09 p1309 N84-18559
Solid state research
[AD-A140027] 15 p2413 N84-25488
Solid state research
[AD-A142991] 21 p3504 N84-32204
Zeeman studies of shallow donors and excitons in quantum wells
[AD-A144487] 24 p3967 N84-35121
QUANTUM GENERATORS
U STIMULATED EMISSION DEVICES
QUANTUM MECHANICS
NT QUANTUM ELECTRODYNAMICS
Topics in gravitation and gauge fields
02 p0247 N84-11616
The possible unifying effect of the dynamic theory
[DE83-014082] 02 p0301 N84-11973
Applications of molecular quantum mechanics to problems in chemistry
[DE83-015943] 03 p0456 N84-13003
Quantum-mechanical calculations of the properties of liquid He droplets
[DE84-000164] 04 p0491 N84-13220
Toward a constructive physics
[DE83-016644] 04 p0594 N84-13919
Fourier optics for the Maxwell field: Formalism and applications
[DE84-002845] 06 p0826 N84-15383
The actual content of quantum theoretical kinematics and mechanics
[NASA-TM-77379] 07 p1083 N84-17046
Formulae for configuration averages of products of 1-body and 2-body operators in many-fermion spaces
[DE84-002834] 08 p1221 N84-17971
Contributions to the theory of quantum 1/f noise
08 p1236 N84-18082
The mathematical structure of elementary particles
[AD-A136295] 09 p1387 N84-19080
The role of phonons in the excitation and relaxation of adspecies
[AD-A137066] 10 p1455 N84-19504
Transverse and quantum effects in light control by light; (A) parallel beams: Pump dynamics for three level superfluorescence; and (B) counterflow beams: An algorithm for transverse, full transient effects in optical bi-stability in a Fabryperot cavity
[AD-A136906] 10 p1578 N84-20342
Filamentation in the plasma focus as a plasma Meissner effect 10 p1584 N84-20380
Applied mathematics of transport theory
[DE84-004135] 10 p1590 N84-20422
Achieving chemical accuracy by quantum Monte Carlo
[DE84-005175] 11 p1748 N84-21392
Chemical application of diffusion quantum Monte Carlo
[DE84-005173] 11 p1748 N84-21393
An abrasion-ablation model description of galactic heavy-ion fragmentation
[NASA-TP-2305] 12 p1903 N84-22396
Program for a constructive physics
[DE84-005425] 12 p1916 N84-22486
Travelling wave bistability 14 p2237 N84-24426
Quantum mechanical studies of heavy ion scattering processes
[DE84-010124] 19 p3103 N84-29711
Attractive interaction between an atom and a surface
[DE84-003204] 19 p3103 N84-29712
Fun with supersymmetric quantum mechanics
[DE84-011329] 20 p3312 N84-31031
Scattering optical activity of chiral molecules: Circular intensity differential scattering and circular differential imaging
[DE84-010712] 21 p3493 N84-32137
Usual initial and final state effects in quantum chromodynamics
[DE84-010422] 21 p3495 N84-32148
QUANTUM NUMBERS
Progress in lattice gauge theory
[DE83-014055] 03 p0436 N84-12862
TOF for heavy stable particle identification
06 p0913 N84-15936
The basic concept of particle rest mass in a quantized relativistic universe
[ESA-STM-233] 23 p3832 N84-34306
QUANTUM STATISTICS
An alternative approach to quantum statistics
[AD-A131525] 01 p0137 N84-10669
Quantum solutions and strange solutions in many-body problems
[AD-A140436] 16 p2565 N84-26459

Some negative results for avoiding lattice fermionic doubling
[PREPRINT-358] 20 p3297 N84-30938

QUANTUM THEORY

The quantum dynamics of chemical reactions
[AD-A130160] 01 p0156 N84-11026
Theoretical studies of oxygen-iodine laser mechanisms and new laser concepts
[AD-A132374] 04 p0540 N84-13550
Quantum theory of optical excitonic bistability
14 p2237 N84-24427
Optical bistability from the Dicke model
14 p2239 N84-24443
Supersymmetric nonlinear sigma models constrained on a noncompact manifold
[PREPRINT-356] 20 p3283 N84-30843
Stochastic quantization: Stabilizing quantum models
[REPT-80] 20 p3312 N84-31032
Numerical calculations in quantum field theories
[DE84-010892] 21 p3507 N84-32217
USSR report: Electronics and electrical engineering
[JPRS-UEE-84-006] 22 p3565 N84-32580
Inelastic strong interactions at high energies
[DE84-013647] 22 p3655 N84-33170
Quantum structure of adsorbates on semiconductor surfaces
[AD-A143465] 22 p3663 N84-33223
Invariant formulation of and radiative corrections in quantum gravity 22 p3668 N84-33249
The basic concept of particle rest mass in a quantized relativistic universe
[ESA-STM-233] 23 p3832 N84-34306
Investigation of the MBE growth of InSb and novel quantum well structures
[AD-A144151] 24 p3967 N84-35117

QUARK PARTON MODEL

Covariant theory with a confined quantum
[DE83-014897] 03 p0435 N84-12650
Baryon-antibaryon angular correlations in quark jets
[DE83-015823] 03 p0435 N84-12654
Theory of elementary particles
[DE83-015804] 03 p0437 N84-12671
Interaction of a stream of dielectric spheres in an electric field in a high vacuum
[DE83-013895] 04 p0600 N84-13958
Multiquark exotics
[DE83-017958] 04 p0601 N84-13964
Theoretical high energy physics research
[DE84-009785] 19 p3103 N84-29716

QUARKS

Very-high-energy nuclear physics
[DE83-013379] 01 p0146 N84-10957
Quark-gluon plasma formation
[DE83-017742] 03 p0436 N84-12661
Progress in lattice gauge theory
[DE83-014055] 03 p0436 N84-12662
Jet production and high p/sub T/ phenomena in photon-photon reactions
[DE83-016397] 03 p0437 N84-12668
Tau and B lifetime measurements from the MARK 2
[DE83-018219] 03 p0439 N84-12679
Soliton bag: Dynamics and the quark plasma
[DE84-001103] 05 p0745 N84-14895
Detecting heavy quark jets 06 p0914 N84-15939
Quarks
[TB-83-7] 19 p3100 N84-29694
Flavor mixing and the six quark model
[USIP-84-08] 20 p3298 N84-30940
Search for excited quarks
[PREPRINT-383] 23 p3823 N84-34246
Testing the six quark sheme
[PREPRINT-402] 23 p3823 N84-34247

QUARRIES

U MINES (EXCAVATIONS)

QUARTZ

Multiple-pulse laser-induced damage in crystaline and fused quartz
[DE83-015458] 01 p0154 N84-11015
Nonlinear elastic behavior of piezoelectric trigonal crystals: Measurements on quartz and LiNbO3
[AD-A131350] 02 p0298 N84-11956
Holographic optical elements with ultra-high spatial frequencies
[AD-A132355] 04 p0538 N84-13537
Manufacturing technology for high quality swept-culture growth quartz
[AD-A133500] 06 p0923 N84-15998
Vibrations of doubly-rotated-cut quartz plates with monoclinic symmetry
[AD-A135848] 09 p1377 N84-18996
Laser detection of chemical agents
[AD-A136122] 12 p1820 N84-21865
Study of defects produced by the growth, post treatment and fabrication of quartz
[AD-A136327] 12 p1914 N84-22471
Study of defects produced by the growth, post treatment and fabrication of quartz
[AD-A139634] 15 p2413 N84-25485
Resonator insensitive to paraxial accelerations
[AD-D010998] 19 p3018 N84-29130
Trace analysis in quartz
[AD-A142425] 20 p3148 N84-29988
The temperature sensitivity of doubly rotated quartz resonators
[AD-A142537] 20 p3178 N84-30186
Temperature derivatives of elastic stiffnesses and frequency-temperature behavior of quartz crystal plates
21 p3418 N84-31675
The depositional environments and petrography of the Stirling Quartzite Death Valley Region, California and Nevada 21 p3439 N84-31816
The petrology and geochemistry of the Yerington Batholith and the Ann-Mason Porphyry Copper Deposit, Western Nevada 21 p3441 N84-31828
Depositional environment and petrology of the Medicine Peak Quartzite (early proterozoic), southern Wyoming
21 p3441 N84-31829
Double layered tailorable advanced blanket insulation
[NASA-CR-166600] 23 p3723 N84-33591
Eolian quartz granulometry as a paleowind indicator in the Northeast Equatorial Atlantic, North Pacific and Southeast Equatorial Pacific 23 p3796 N84-34069
Steady state creep in quartz
[DE84-701196] 24 p3912 N84-34776

QUARTZ CRYSTALS

Radiation-induced transient acoustic loss in quartz crystals
[DE83-012626] 03 p0453 N84-12980
Vibration resistant quartz crystal resonators
[AD-A132274] 04 p0526 N84-13459
Modification of point defects in quartz for device applications
[DE84-002611] 07 p1082 N84-17036
Low temperature quartz crystal oscillator fast warm-up SAW oscillator
[AD-A138024] 12 p1811 N84-21806
Study of factors determining the radiation sensitivity of quartz crystal oscillators (A0189)
15 p2279 N84-24686
Quartz growth on x-seeds
[AD-D011031] 19 p3112 N84-29770
Static frequency-temperature characteristics of doubly rotated quartz
[AD-A142456] 20 p3309 N84-31013
X33 cut quartz for temperature compensated saw devices
[AD-D011200] 24 p3903 N84-34713

QUARTZ LAMPS

Spacecraft thermal balance testing using infrared lamps on a dummy spacecraft 10 p1439 N84-19399

QUASARS

X-ray and optical studies of extragalactic X-ray emitters 02 p0308 N84-12024
A very large array 1411 MHz radio survey: Properties of complete samples of radio and optically selected QSO candidates in a high galactic-latitude field
04 p0618 N84-14076
Soft X-ray spectral observations of quasars and high X-ray luminosity Seyfert galaxies
[NASA-TM-85118] 04 p0619 N84-14082
Extragalactic emission-line objects and the Michigan-Tololo survey 04 p0622 N84-14101
Nuclear structure of quasars at 329 megaHertz
05 p0763 N84-15002
Optical and X-ray selected samples of quasars: Evolution of the luminosity distributions
06 p0937 N84-16090
Spectrophotometry of 2 complete samples of flat radio spectrum quasars
[NASA-CR-175343] 07 p1088 N84-17077
Luminosity calibration of low redshift quasars
[NASA-CR-175372] 08 p1242 N84-18120
Observations of emission in bright, low redshift quasars
[NASA-CR-175376] 08 p1242 N84-18122
Observations of variable millimeter wave radio sources at Metsaehovi 09 p1413 N84-19245
Royal Observatory, Edinburgh: Research and Facilities 1983
[ISBN-0-902553-27-5] 10 p1594 N84-20446
Quasars and galaxies with active nuclei
10 p1594 N84-20448
Optical characteristics of young quasars as sources of the cosmic X-ray background
[NASA-TM-85069] 11 p1760 N84-21488
Activities report of the Institute of Astronomy
13 p2071 N84-23422
Study of variability in extragalactic radio sources at 22 GHz and 44 GHz
[INPE-2913-TDL/149] 13 p2092 N84-23549
An X-ray survey of variable radio bright quasars
[NASA-TM-86094] 14 p2250 N84-24512
Ultraviolet and X-ray observations of active galactic nuclei: Constraints on models of the broad emission line region 15 p2423 N84-25560
Submilliarcsecond VLBI observations of the close pair GC 1342+662 and GC 1342+663
16 p2478 N84-25891
Seyfert galaxy narrow-line regions: A spectroscopic investigation 17 p2774 N84-27612
Accretion disks, precessing jets and the asymmetric emission lines of QSOs
[NASA-CR-173632] 17 p2774 N84-27613
The role of the Automated Plate Measuring (APM) machine in developing a program to discover QSOs automatically 18 p2843 N84-28054
Photon losses in cosmic ray acceleration in active galactic nuclei
[DE84-012583] 20 p3321 N84-31081
The kinematics of the emission line gas in quasars and active galactic nuclei 21 p3524 N84-32326
Photoionization models of the MgII and CIV selected clouds observed in absorption in QSO spectra
22 p3678 N84-33314
The broad-band X-ray spectrum of a QSO sample
[NASA-TM-85071] 22 p3681 N84-33333
UV observations on the variable quasar PG 1351+64
24 p3972 N84-35153
Quasars as probes of the intergalactic medium
24 p3972 N84-35154
Spatial fluctuations in the diffuse cosmic X-ray background
[NASA-TM-85029] 24 p3994 N84-35281

QUASI-PARTICLES

U ELEMENTARY EXCITATIONS

QUASI-STEADY STATES

Quasi-steady state multi-plasma cloud configuration in the ionosphere
[AD-A141532] 19 p3107 N84-29739

QUASI-STELLAR RADIO SOURCES

U QUASARS

QUASILINEARITY

U NONLINEARITY

QUATERNARY ALLOYS

Thermal conductivity of ternary and quaternary III-V compounds
[AD-A135336] 08 p1235 N84-18070
Theoretical and experimental study of solid phase miscibility gaps in 3/4 quaternary alloys
[DE84-004391] 12 p1915 N84-22478
Impurity and defect characterization in epitaxial GaAs InP and the ternary and quaternary compound semiconductors
[AB-A143551] 22 p3664 N84-33225

QUATERNIONS

Symmetric systems with semisimple structure algebra: The quaternionic case
[NASA-CR-173421] 13 p2034 N84-23193
On Chow groups of conic bundle surfaces
[CTH-MATH-1984-12] 23 p3820 N84-34228

QUENCHING

Comparative evaluation of existing concepts for a 10-tesla FED toroidal field coil
[DE83-012817] 03 p0429 N84-12615
Photogalvanic cells driven by electron transfer quenching of excited singlet states
[DE84-009099] 15 p2330 N84-24991
Wall quench and flammability limit effects on exhaust hydrocarbon emission
[DE84-009754] 21 p3359 N84-31307
Switching transients in a superconducting coil
[DE84-012592] 21 p3393 N84-31532

QUENCHING (ATOMIC PHYSICS)

Design conditions for fail safe quenching of a high current density superconducting solenoid with a shorted secondary circuit
[LBL-14859] 01 p0069 N84-10449
Photoluminescent properties of n-GaAs electrodes: Applications of the dead-layer model to photoelectrochemical cells
[AD-A131301] 02 p0298 N84-11958
Coupling between angular deflection and eddy currents in the FELIX plate experiment
[DE84-001509] 05 p0750 N84-14927
Pressure quenched excitonic solids
[AD-A133617] 05 p0753 N84-14940
Electron donor-acceptor quenching and photoinduced electron transfer for coumarin dyes
[AD-A136345] 09 p1394 N84-19105
Quenched Carbonaceous Composite (QCC): A likely candidate for interstellar grains
16 p2571 N84-26501
Chemical reactions, radiative and energy transfer processes of important atmospheric species
[AD-A143264] 22 p3653 N84-33156

QUENCHING (COOLING)
Dilatometric investigation of phase-transformation kinetics in HP 9-4-20 steel
[DE84-001180] 04 p0500 N84-13280
Tempering kinetics of alloy steels as a function of quench rate and M sub s temperature
[AD-A134806] 08 p1132 N84-17365
Film synthesis and new superconductors
[AD-A135102] 08 p1234 N84-18068
Resonance line broadening of alkali metals in pyrotechnic flames
[AD-A135685] 09 p1279 N84-18355
Quenched magnetite in cretaceous-tertiary boundary microtektite-like spheroid 11 p1755 N84-21459
Effect of hydrogen on the mechanical properties of a U5.7Nb alloy
[DE84-006679] 12 p1799 N84-21732
Thermal and transformation stresses in hollow tubes during the quenching process
[AD-P002976] 14 p2201 N84-24212
Rapid solidification research on aluminum alloys at Delft University of Technology — bibliographies 15 p2295 N84-24771
Effect of cooling rate on corrosion properties and microstructure of high strength aluminum alloys
[NLR-TR-82105-U] 15 p2297 N84-24783
Flashback flame arresters for fuel cargo tanks 15 p2431 N84-25601
A study of the dependence of microsegregation on critical solidification parameters in rapidly-quenched structures
[AD-A142283] 20 p3153 N84-30019
Pressure effects on wall heat transfer during flame quenching
[DE84-012265] 21 p3401 N84-31575
Aircraft landing dynamics facility carriage weld test program
[NASA-TM-85802] 22 p3603 N84-32827
Plasma-particle interaction effects in induction plasma modelling under dense loading conditions
[DE84-013388] 22 p3660 N84-33203
Maximum supercooling in liquid 3He-4He mixtures near the tricritical point
[DE84-010076] 22 p3665 N84-33232
Dynamical scaling in 3He-4He liquid mixtures
[DE84-010072] 22 p3665 N84-33233
Unsteady heat transfer during laminar flame quenching
[DE84-006301] 23 p3715 N84-33550
The influence of containerless undercooling and rapid solid-state quenching on the superconductive and magnetic properties of some clustering alloy systems
[NASA-CR-171144] 23 p3718 N84-33566
Unsteady heat transfer during the interaction of a laminar flame with a cold wall 23 p3745 N84-33739

QUERY LANGUAGES
Benchmarking the join operations of relational database machines
[AD-A132312] 04 p0584 N84-13861
Improvement of the memory allocation algorithm for evaluating query language expressions in the relational database handler CANTOR
[FOA-C-20508-D8] 08 p1213 N84-17916
Query processing and data allocation in distributed database systems
[MATH-CENTRE-TRACTS-156] 08 p1239 N84-18101
Benchmarking relational database machines' capabilities in supporting the database administrators' functions and responsibilities
[AD-A137413] 10 p1593 N84-20437
Three-valued logic and its application to the query language of incomplete information
[AD-P002355] 14 p2192 N84-24146
Deduction in nonhorn databases 22 p3670 N84-33263
Implementation of logical query languages for databases
[AD-A144435] 24 p3947 N84-34992

QUEUEING THEORY
Speeds: A new technique for the analysis and optimization of queueing networks
[PB83-228951] 01 p0137 N84-10901
Software voting in asynchronous NMR (N-Modular Redundancy) computer structures
[NASA-CR-174488] 03 p0418 N84-12732
Search among queues
[AD-A131639] 03 p0424 N84-12773
Rank modification method for certain singular systems of linear equations 03 p0427 N84-12797
In-trail dynamics of multiple CDTI-equipped aircraft queues
[NASA-TM-85699] 07 p0953 N84-16178
The queue G/G/1: Finite moments of the cycle variables and uniform rates of convergence
[CTH-MATH-1983-18] 07 p1066 N84-16933
Systolic computation and VLSI 08 p1208 N84-17877
A single server queue with mixed types of interruptions: Application to the modeling of checkpointing and recovery in a transactional system
[EUT-83-E-138] 10 p1574 N84-20315
Applications of functional analytic and Martingale methods to problems in queueing network theory
[AD-A137748] 11 p1718 N84-21208
A comparison of two air defense command and control models
[AD-P002876] 13 p1977 N84-22837
An N to the 1.618th power lower bound on the time to simulate one queue or two pushdown stores by one tape
[MC-IW-245/83] 13 p2030 N84-23161
A note on the overflow process from a finite Markovian queue
[MC-BW-179/83] 13 p2036 N84-23211
Some analytical aspects of the peakedness concept
[MC-BW-183/83] 13 p2037 N84-23217
The queue G/G/lc: Finite moments of the cycle variables and uniform rates of convergence
[CTH-MATH-1983-24] 13 p2037 N84-23218
Process algebra semantics for queues
[MC-IW-241/83] 13 p2037 N84-23219
A development of logistics management models for the Space Transportation System
[NASA-CR-173504] 14 p2113 N84-23664
The normal approximation and queue control for response times in a processor-shared computer system model
[AD-A139587] 14 p2210 N84-24263
A note on mixed exponential approximations for GI/G/1 waiting times
[AD-A139534] 14 p2219 N84-24313
Optimal design of a storage system with constant or linear release rate
[INPE-3125-PRE/516] 16 p2541 N84-26311
A problem in the optimal control of queueing workloads for the M/G/1 file
[INPE-3106-PRE/505] 16 p2546 N84-26339
The multiple device queueing system
[AD-A140429] 16 p2547 N84-26344
On two-tape real time computation and queues
[MC-IW-246/83] 17 p2750 N84-27455
Continuous singular probability measures that are almost lattice
[CTH-MATH-1983-26] 17 p2760 N84-27529
A note on Delbrouck's approximate solution to the heterogeneous blocking problem
[MC-BW-190/83] 17 p2761 N84-27536
The relaxation time of two queueing systems in series
[MC-BW-192/83] 17 p2761 N84-27537
B-1B Avionics/Automatic test equipment: Maintenance queueing analysis
[AD-A141175] 18 p2795 N84-27736
Overload control for a Stored Program Control (SPC) telephone exchange: An optimal stochastic control approach
[CWI-OS-R8404] 19 p3081 N84-29550
Boundary problems and large deviation results for queue length processes
[CTH-MATH-1984-05] 19 p3090 N84-29623
Asymptotic analysis of a queueing system with a two-dimensional state space
[CWI-OS-R8402] 19 p3092 N84-29637
On regenerative and ergodic properties of the k-server queue with nonstationary Poisson arrivals
[CTH-MATH-1984-2] 19 p3094 N84-29648
Applications of combinatorics to the busy period in several queueing models
[AD-A142492] 20 p3284 N84-30850
The effect of queueing disciplines on response times in distributed systems
[DE84-012639] 22 p3641 N84-33066
An optimum policy for a system of maintenance with control by a repair time distribution
[INPE-3131-PRE/522] 23 p3833 N84-34313

QUINOLINE
Preparation of certain m-aminophenols and the use thereof for preparation of laser dyes
[DE84-014232] 23 p3755 N84-33803

QUOTIENTS
Quotient algebras for logics of imprecision
[AD-P002330] 14 p2189 N84-24121

R

RABBITS
Statistical analysis of high SCE frequency cells in human lymphocytes
[DE84-005433] 11 p1693 N84-21042

RACETRACKS (PARTICLE ACCELERATORS)
Algorithm for secondary electron emission from water vapor by high velocity ions
[DE84-011871] 21 p3494 N84-32142
Pulsed power for racetrack induction accelerators
[AD-A143289] 22 p3653 N84-33157

RACKS (FRAMES)
Laboratory glassware rack for seismic safety
[NASA-CASE-ARC-11422-1] 11 p1657 N84-20808

RACON BEACONS
U RADAR BEACONS

RADAR
NT AIRBORNE SURVEILLANCE RADAR
NT COHERENT RADAR
NT CONTINUOUS WAVE RADAR
NT DOPPLER RADAR
NT EISCAT RADAR SYSTEM (EUROPE)
NT INCOHERENT SCATTER RADAR
NT INFRARED RADAR
NT METEOROLOGICAL RADAR
NT MONOPULSE RADAR
NT MOVING TARGET INDICATORS
NT MULTISPECTRAL RADAR
NT MULTISTATIC RADAR
NT OPTICAL RADAR
NT OVER-THE-HORIZON RADAR
NT PULSE DOPPLER RADAR
NT PULSE RADAR
NT RADAR MEASUREMENT
NT RANGE AND RANGE RATE TRACKING
NT SATELLITE-BORNE RADAR
NT SEARCH RADAR
NT SIDE-LOOKING RADAR
NT SPACE BASED RADAR
NT SYNTHETIC APERTURE RADAR
NT TRACKING RADAR
NT VENUS ORBITING IMAGING RADAR (SPACECRAFT)
Some robust techniques in radar signal processing 05 p0664 N84-14367
Range performance calculations using the NVEOL-Georgia Tech Research Institute 0.1- to 100-GHz radar performance model
[AD-A133881] 05 p0667 N84-14387
Research in aeronomy
[NASA-CR-175370] 08 p1185 N84-17721
The estimation and correction of refractive bending in the AR3-D tactical radar systems 15 p2325 N84-24958
Joint services electronics program
[AD-A140434] 16 p2485 N84-25936
USSR report: Electronics and electrical engineering
[JPRS-UEE-84-007] 17 p2630 N84-26821
The economics of data acquisition computers for ST and MST radars 17 p2683 N84-27064
The Arecibo Observatory as an MST radar 17 p2691 N84-27138
Correlation methods 17 p2695 N84-27167
Data analysis techniques: Spectral processing 17 p2695 N84-27168
Parmeterization of spectra 17 p2696 N84-27170
Properties of echo spectra observed by MST radars 17 p2696 N84-27171
Parameterization of spectrum 17 p2696 N84-27172
Spectral moment estimation in MST radars 17 p2696 N84-27173
The discrete prolate spheroidal filter as a digital signal processing tool 17 p2696 N84-27174
MST radar data-base management 17 p2696 N84-27175
Antenna applications and system engineering
[AD-P003401] 19 p3014 N84-29105
F-16 APG-66 fire control radar case study report IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A142075] 20 p3129 N84-29874
Westinghouse uses USAF-developed standards
[AD-P003572] 21 p3338 N84-31177
Standard avionics software: The future strategy for cost-effective avionics
[AD-P003582] 21 p3339 N84-31187
The use of overlapped subarray techniques in simultaneous receive beam linear arrays
[AD-P003501] 21 p3383 N84-31469
Damaged radar radome repair device
[AD-D011158] 23 p3712 N84-33528
The calculation of the radar vertical coverage diagram
[AD-A143647] 23 p3731 N84-33645
The microcode for the control processor of the ARO (array oriented processor) array processor
[AD-A143765] 23 p3813 N84-34175
Large diameter optical slip-rings
[WSRL-0342-TM] 24 p3963 N84-35095
Site certification and landing 24 p3991 N84-35258

RADAR ABSORBERS
Passive countersurveillance: An overview
24 p3914 N84-34781
RADAR ALTIMETERS
U RADIO ALTIMETERS
RADAR ANTENNAS
Bistatic radar cross sections of chaff
[AD-A133967] 05 p0667 N84-14384
RF systems in space. Volume 2: Space-based radar analyses
[AD-A133735] 05 p0668 N84-14394
RF systems in space. Volume 1: Space antennas frequency (SARF) simulation
[AD-A133734] 05 p0668 N84-14395
Development of Venera-15, -16 radars
12 p1775 N84-21580
Mirror antenna dual-band lightweight mirror design
[AD-A138113] 12 p1806 N84-21776
The effects of aperture antennas after signal propagation through anisotropic ionized media
[AD-A138256] 12 p1807 N84-21781
High angular resolution microwave sensing with large, sparse, random arrays
[AD-A138717] 13 p1963 N84-22874
Effect of space environment on space-based radar phased-array antenna (A0133) 15 p2271 N84-24638
A comment on some drawbacks of monostatic radars
17 p2686 N84-27106
The spaced antenna drift method
17 p2687 N84-27107
Spaced antenna drift 17 p2687 N84-27108
Estimating unbiased horizontal velocity components from ST/MST radar measurements: A case study
17 p2687 N84-27110
Effects of geophysical noise on the accuracy of wind determination 17 p2687 N84-27113
Radar interferometer measurements
17 p2688 N84-27114
Techniques for studying gravity waves and turbulence: Horizontal, vertical and temporal resolution needed
17 p2688 N84-27116
The MST radar technique: A tool for investigations of turbulence spectra 17 p2688 N84-27117
Existence of a persistent background of turbulence
17 p2688 N84-27118
Determination of vertical and horizontal wavelengths of gravity waves 17 p2688 N84-27119
Techniques for studying gravity waves and turbulence: Vertical wind speed power spectra from the troposphere and stratosphere obtained under light wind conditions
17 p2688 N84-27120
The Arecibo Observatory as an MST radar
17 p2691 N84-27138
Capabilities and limitations of the Sondrestrom radar for ST observations 17 p2691 N84-27139
Outline of the Mu radar 17 p2691 N84-27140
Chung-Li, Taiwan dual mode (Doppler and spaced antenna) VHF radar: Preliminary specifications
17 p2691 N84-27141
Design considerations of a proposed UK VHF radar
17 p2692 N84-27142
Design considerations for MST radar antennas
17 p2693 N84-27153
Directivity and spacing for the antenna elements
17 p2693 N84-27154
Full versus limited versus no steerability
17 p2693 N84-27155
School of Electrical Engineering.
17 p2694 N84-27156
Delay line and mutual coupling considerations for MST radar antenna arrays 17 p2694 N84-27157
Review of specific antenna configurations: An estimate of cost and performance versus frequency for a simple (10 Lambda)-2 clear-air radar antenna array
17 p2694 N84-27158
Data processing techniques used with MST radars: A review 17 p2694 N84-27159
Decoding: Codes and hardware implementation
17 p2694 N84-27160
A note on the use of coherent integration in periodogram analysis of MST radar signals 17 p2695 N84-27163
Signal processor architecture for backscatter radars
17 p2695 N84-27164
Real-time MST radar signal processing using a microcomputer running under FORTH
17 p2695 N84-27165
The use of overlapped subarray techniques in simultaneous receive beam linear arrays
[AD-P003501] 21 p3383 N84-31469
Computer analysis of phased array far-field patterns for non-symmetrical feed networks
[AD-P003502] 21 p3383 N84-31470
Simulation of an electronic countermeasure technique
[AD-D011143] 22 p3572 N84-32619
The calculation of the radar vertical coverage diagram
[AD-A143647] 23 p3731 N84-33645
Development of a slotted waveguide array panel for SAR antenna: Electrical design and testing
[IEC-MO-60/11] 23 p3732 N84-33656
An R and D model of a synthetic aperture radar antenna 23 p3777 N84-33949
RADAR ASTRONOMY
The Telecommunications and Data Acquisition Report
[NASA-CR-173685] 22 p3572 N84-32622
High power K sub a -band transmitter for planetary radar and spacecraft uplink 22 p3572 N84-32625
Radio science 23 p3842 N84-34373
RADAR ATTENUATION
The calculated performance of some radar and transmissometer systems in rain and fog at 35, 94, 140 and 240 GHz, volume 1
[AD-A133567] 06 p0825 N84-15380
The use of dual-polarization radar data to predict attenuation from precipitation on Earth-space paths
[ESA-CR(P)-1845] 12 p1809 N84-21798
Determination of the sources of radar scattering
12 p1832 N84-21941
Determination of the sources of radar scattering
12 p1834 N84-21954
Integrated use of radar and satellite data — rain attenuation 18 p2868 N84-28334
An investigation of the existence of a surface water layer on aircraft radomes during simulated flight in heavy precipitation
[NASA-TM-85813] 19 p3003 N84-29035
RADAR BEACONS
Mode S surveillance netting
[AD-A138267] 12 p1768 N84-21531
Development and flight test of a helicopter compact, portable, precision landing system concept
[NASA-TM-85951] 15 p2259 N84-24566
Unit production cost of the radar beacon transponder (Rbx)
[AD-A121532] 17 p2652 N84-26956
RADAR BEAMS
Effects of pulse width and coding on radar returns from clear air 17 p2684 N84-27092
Spectral characteristics of the return
17 p2685 N84-27095
Jicamarca mesospheric observations
17 p2686 N84-27100
Techniques for measurement of vertical and horizontal velocities: Monostatic versus bistatic measurements
17 p2686 N84-27105
RADAR CLUTTER MAPS
10 cm radar ground clutter measurements taken from a coastal steamer radar on passage from Bergen to North Cape in May 1982 06 p0871 N84-15667
RADAR CORNER REFLECTORS
Luneburg lens and optical matrix algebra research
[NASA-CR-172276] 08 p1231 N84-18047
Backscatter from a corner reflector close to a two-antenna radar system
[FOA-C-30355-E1] 18 p2830 N84-27968
RADAR CROSS SECTIONS
Bistatic radar cross sections of chaff
[AD-A133967] 05 p0667 N84-14384
Analysis of electromagnetic backscatter from an inlet cavity configuration
[AD-A133626] 05 p0669 N84-14400
Radar investigation of asteroids
[NASA-CR-175350] 07 p1090 N84-17090
A study of the dependence of radar backscatter cross section on wind speed and wave slope from the MARSEN experimental results (a contribution to studies of radar backscattering from the sea surface). Supplement to final report
[AD-A135041] 08 p1144 N84-17441
Flight measurement and analysis of AAFE RADSCAT wind speed signature of the ocean
[NASA-TM-85646] 08 p1194 N84-17784
Radar chaff: A bibliography
[AD-A135928] 09 p1302 N84-18513
Scattering experiments at the Ipswich electromagnetic measurements facility: Calibration with perfectly conducting spheres
[AD-A138028] 12 p1806 N84-21772
Accuracy estimate for radar cross section measurements of targets modelled by multiple independent scatterers in constant clutter
[AD-A138075] 12 p1806 N84-21775
A minimum range criterion for RCS (Radar Cross-Section) measurements of a target dominated by point scatterers
[AD-A138230] 12 p1807 N84-21780
Clutter cancellation techniques for use in a space-based radar system
[AD-A138467] 12 p1808 N84-21784
Is there radar evidence for liquid water on Mars?
13 p2088 N84-23529
Radar investigation of asteroids
[NASA-CR-173603] 16 p2576 N84-28530
Bistatic radar cross sections of horizontally oriented chaff
[AD-A140903] 17 p2654 N84-26975
Optimum backscatter cross section of the ocean as measured by synthetic aperture radars
17 p2714 N84-27276
SAR imagery of ocean-wave swell traveling in an arbitrary direction 17 p2714 N84-27278
Analysis of normalized radar cross section (sigma-O) signature of Amazon rain forest using SEASAT scatterometer data
[E84-10168] 19 p3039 N84-29278
Evaluation of U.S. Coast Guard forward-looking airborne radars
[AD-A142417] 20 p3174 N84-30156
The APL RCS (Radar Cross Section)/statistics code description, illustrations of output, and user's guide
[AD-A142929] 21 p3386 N84-31490
Ku-Band rendezvous radar performance computer simulation model
[NASA-CR-171604] 22 p3576 N84-32650
Broadside radar cross section of the perfectly conducting cube
[AD-A143321] 22 p3577 N84-32656
Radar cross section measurements of wingtip vortices
23 p3775 N84-33934
RADAR DATA
The development of a digital processing system for accurate range determinations — for Teleoperator Maneuvering Systems 06 p0930 N84-16048
Correlation methods 17 p2695 N84-27167
MST radar data-base management
17 p2696 N84-27175
Radar data smoothing filter study
[NASA-CR-168347] 18 p2844 N84-28059
Threshold signals for detector having stabilization of false alarm probability 22 p3567 N84-32590
Radar analyses of mesoscale meteorological phenomena during the AVE/VAS correlation field experiment 24 p3932 N84-34889
Development of the Centralized Storm Information System (CSIS) for use in severe weather prediction
24 p3932 N84-34890
RADAR DETECTION
Transient waveform synthesis for radar target discrimination 05 p0664 N84-14366
Analysis of US Coast Guard HU-25A visual and radar detection performance
[AD-A133380] 06 p0784 N84-15138
Multifrequency scattering for target characterization and identification: A summary of recent results
06 p0870 N84-15663
The effect of turbulent atmosphere on backscattered waves 06 p0870 N84-15664
Optimum and sub-optimum processors for multistatic radar systems 06 p0906 N84-15885
Silent radar: A study of the performances of a navigational radar with limited range
[FOA-C-30334-E1] 08 p1146 N84-17461
Computer assessment of electromagnetic means of detecting approaching cruise missile
[DE84-005115] 10 p1482 N84-19687
Continuing design, review and analysis work for the Sierra Cooperative Pilot Project
[PB84-143627] 11 p1688 N84-21012
A model of radar propagation and detection
[AD-A139531] 14 p2141 N84-23834
Preliminary report of HF (High-Frequency) radar measurements of surface currents East of the Strait of Gilbraltar near Marbella, Spain: October 7-22, 1982, part 1
[PB84-154244] 14 p2183 N84-24083
Anomalous propagation and radar coverage through inhomogeneous atmospheres 15 p2326 N84-24967
The effects of pulse rate, power, width and coding on signal detectability 17 p2685 N84-27093
Feasibility study for the improvement of automatic detection of bird migration with radar images
[LEOK-TR-1983-12] 18 p2790 N84-27704
Ground penetrating radar: A review of its application in the mining industry, information circular 1984
[PB84-178292] 20 p3176 N84-30172
Radar cross section measurements of wingtip vortices
23 p3775 N84-33934
RADAR DIRECTION FINDERS
U RADIO DIRECTION FINDERS
RADAR ECHOES
NT CLUTTER
Radar resonance reflection from sets of plane dielectric layers
[AD-A128680] 01 p0062 N84-10406
An evaluation of an automatic cell detection and tracking algorithm
[AD-A130068] 01 p0107 N84-10694
A composite analysis of a tropical squall-line system
04 p0565 N84-13727

Calculation of cumulative distributions and detection probabilities in communications and optics
[AD-A136561] 09 p1376 N84-18969
Joint agency turbulence experiment: Environmental research paper
[AD-A137167] 11 p1687 N84-21005
A model of radar propagation and detection
[AD-A139531] 14 p2141 N84-23834
Theoretical and experimental study of radar backscatter from sea ice
[AD-A139866] 15 p2321 N84-24935
Radar investigation of asteroids
[NASA-CR-173603] 16 p2576 N84-26530
Interpretation of MST radar returns from clear air 17 p2683 N84-27085
On the morphology of the scattering medium as seen by MST/ST radars 17 p2684 N84-27086
Range gate dependence of specular echoes 17 p2684 N84-27088
Is VHF Fresnel reflectivity due to low frequency buoyancy waves? 17 p2684 N84-27089
Mesospheric scatter and its microstructure 17 p2684 N84-27090
Fresnel zone considerations for reflection and scatter from refractive index irregularities 17 p2684 N84-27091
Effects of pulse width and coding on radar returns from clear air 17 p2684 N84-27092
Spectral characteristics of the return 17 p2685 N84-27095
Origin of refractive index fluctuations in the mesosphere as opposed to the stratosphere and troposphere 17 p2686 N84-27101
Solar control of winter mesospheric echo occurrence at Poker Flat, Alaska 17 p2686 N84-27102
Nighttime mesospheric returns associated with a large scale flare event 17 p2686 N84-27103
Techniques for measurements of horizontal and vertical velocities 17 p2686 N84-27104
Techniques for measurement of vertical and horizontal velocities: Monostatic versus bistatic measurements 17 p2686 N84-27105
The spaced antenna drift method 17 p2687 N84-27107
An evaluation of the accuracy of some radar wind profiling techniques 17 p2687 N84-27109
Determination of vertical and horizontal wavelengths of gravity waves 17 p2688 N84-27119
Parametrization of Fresnel returns 17 p2689 N84-27124
Relationship of strength of turbulence to received power 17 p2689 N84-27126
Properties of echo spectra observed by MST radars 17 p2696 N84-27171
Parameterization of spectrum 17 p2696 N84-27172
Spectral moment estimation in MST radars 17 p2696 N84-27173
Project Noordwijk, part 5: Analysis of the fading component of the radar backscatter
[AD-B063044] 19 p3010 N84-29082
Acousto-Optic Adaptive Processing (AOAP)
[AD-A141445] 19 p3100 N84-29689
Ground penetrating radar: A review of its application in the mining industry, information circular 1984
[PB84-178292] 20 p3176 N84-30172
Model cloud relationships
[AD-A142690] 21 p3447 N84-31871
Cascaded adaptive loops
[AD-D011116] 22 p3580 N84-32674
Range-only multistatic radar system
[AD-D011201] 24 p3896 N84-34671

RADAR EQUIPMENT
NT PLAN POSITION INDICATORS
NT RADAR ANTENNAS
NT RADAR BEACONS
NT RADAR CORNER REFLECTORS
NT RADAR FILTERS
NT RADAR RECEIVERS
NT RADAR TRANSMITTERS
NT RETROREFLECTORS

Survey of radar Automatic Detection and Tracking (ADT)
[AD-A130358] 01 p0064 N84-10420
Multimode radar signal processor integration facility
[AD-A130655] 01 p0065 N84-10424
Prototype fiber optic system to remote TRACALS radar
[AD-A132073] 03 p0360 N84-12341
Signal processor interface simulation of the AN/SPY-1A radar controller
[AD-A132170] 04 p0522 N84-13429
A new Traveling Wave Tube (TWT) cooling concept — for ers-1 10 p1445 N84-19438
Design modifications on Venera-15, -16 12 p1775 N84-21579
Preliminary report of HF (High-Frequency) radar measurements of surface currents East of the Strait of Gilbraltar near Marbella, Spain: October 7-22, 1982, part 1
[PB84-154244] 14 p2183 N84-24083
The development of the Navy variant of the Dauphin 2 helicopter
[SNIAS-832-210-106] 16 p2448 N84-25706
Optimization of two-coordinate surface radar station by combination of technical and economic indices 17 p2630 N84-26825
Development of land based radar polarimeter processor system
[NASA-CR-173636] 17 p2652 N84-26960
Spaced antenna drift 17 p2687 N84-27108
Capabilities and limitations of EISCAT as an MST radar 17 p2690 N84-27129
Capabilities and limitations of the Jicamarca radar as an MST radar 17 p2690 N84-27130
Characteristics of Sunset radar 17 p2690 N84-27131
Capabilities and limitations of existing MST radars: Colorado wind profilers 17 p2690 N84-27132
Capabilities and limitations of existing MST radars: Poker Flat — Alaska 17 p2690 N84-27133
Complementary code and digital filtering for detection of weak VHF radar signals from the mesocscale — SOUSY-VHF radar, Harz Mountains, Germany 17 p2690 N84-27134
The Urbana MST radar, capabilities and limitations 17 p2691 N84-27136
Coherent integration 17 p2695 N84-27162
Review of correlation techniques 17 p2695 N84-27166
Non-Gaussian statistical models of surface wave fields for remote sensing applications 17 p2715 N84-27284
National airspace review benefits and costs
[FAA-AT-84-1] 19 p2961 N84-28765
F-15 AN/APG-63 radar case study report IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A142071] 20 p3129 N84-29873
Atmospheric propagation effects on infrared radars
[AD-A143196] 22 p3576 N84-32651

RADAR FILTERS
A matched filter doppler processor for airborne radar
[AD-A130653] 01 p0065 N84-10425
The discrete prolate spheroidal filter as a digital signal processing tool 17 p2696 N84-27174
The effect of wavelength filtering in rough surface scattering 23 p3778 N84-33957

RADAR GEOLOGY
Radar bathymetry : A review 03 p0400 N84-12612
Combined use of remote sensing and seismic observations to infer geologically recent crustal deformation, active faulting, and stress fields — California and Pennsylvania
[E84-10057] 06 p0864 N84-15628
Use of radar image texture in geologic mapping 07 p0988 N84-16402
Volcanism and rift formation in Beta Regio, Venus: New radar results 11 p1754 N84-21450
Venus: Global radar properties in a geological context 11 p1754 N84-21453
Characterization of surficial geologic units on Venus from Pioneer Venus radar data: A progress report 13 p2076 N84-23454
Radar backscatter modelling 13 p2088 N84-23525
Pinacate-Gran Desierto Region, Mexico: SIR-A data analysis 13 p2088 N84-23526
Radar-visible wind streaks in the Altiplano of Bolivia 13 p2088 N84-23527
The case for aeolian control of meter-scale surface texture on Mars 13 p2088 N84-23528
Hypsometric studies of Mars. 13 p2089 N84-23530
Mapping and geological analysis of Mercury radar data 13 p2089 N84-23532
Mercury: Topographic and geologic data from Earth-based radar observations 13 p2089 N84-23533
Valles Marineris layered deposits: Implications of origin 13 p2090 N84-23537

RADAR IMAGERY
SAR speckle noise reduction using Wiener filter 03 p0393 N84-12568
The influence of sensor and flight parameters on texture in radar images 03 p0394 N84-12575
SAR 580: Images for agricultural and forest survey. First results in middle Belgium 03 p0397 N84-12595
Measuring landscape information content and distribution on a SAR-580 image 03 p0397 N84-12596
Interpretability of wetland on SEASAT-A imagery in the polderland of Flanders: A structural approach 03 p0397 N84-12597
First results of the evaluations of the European SAR 580 data for agricultural and forestry purposes in test site D6, Freiburg (West Germany) 03 p0398 N84-12599
A simulation study of scene confusion factors in sensing soil moisture from orbital radar
[E84-10042] 04 p0552 N84-13835
A computer model for an imaging coherent laser radar
[FOA-C-30341-E] 06 p0826 N84-15368
Analysis of data acquired by synthetic aperture radar over Dade County, Florida, and Acadia Parish, Louisiana
[E84-10067] 06 p0865 N84-15636
Remote sensing with spaceborne synthetic aperture imaging radars: A review 06 p0867 N84-15648
Ocean wave imaging by SAR 06 p0867 N84-15649
Radar and infrared remote sensing of terrain, water resources, arctic sea ice, and agriculture 06 p0868 N84-15651
Stereo imaging with spaceborne radars 07 p0988 N84-16400
Mapping and monitoring renewable resources with space SAR 07 p0988 N84-16403
The SIR-A atlas 07 p0989 N84-16405
Processor architecture for airborne SAR systems 07 p0989 N84-16406
Acousto-optic/CCD real-time SAR data processor 07 p0989 N84-16410
Real-time synthetic aperture radar image formation utilizing an electrooptic spatial light modulator 07 p0989 N84-16411
Radar image interpretation techniques applied to sea ice geophysical problems 07 p0990 N84-16413
Application of a feature selection technique to samples of high resolution synthetic aperture radar imagery
[AD-A135008] 08 p1143 N84-17438
Remote sensing experiments on Spacelab and STS 08 p1175 N84-17655
Sea state monitoring and applications 08 p1176 N84-17665
Approaches to radar image interpretation 08 p1177 N84-17669
Cosmos-1500 SLR used for Arctic ice reconnaissance 09 p1265 N84-18258
Radar response from vegetation with nodal structure
[E84-10085] 10 p1520 N84-19956
Accomplishments of the NASA Johnson Space Center portion of the soil moisture project in fiscal year 1981
[E84-10090] 10 p1521 N84-19961
Volcanism and rift formation in Beta Regio, Venus: New radar results 11 p1754 N84-21450
Development of Venera-15, -16 radars 12 p1775 N84-21580
Technical addendum to the study: ERS-1 Mission, Fucino Station. SAR processor based upon EMMA architecture
[ERI-171] 12 p1809 N84-21791
Determination of the sources of radar scattering 12 p1832 N84-21941
Venus: Global distribution of Pioneer-Venus radar roughness and reflectivity and global correlation of altimetry, roughness and reflectivity observations 13 p2077 N84-23461
Pinacate-Gran Desierto Region, Mexico: SIR-A data analysis 13 p2088 N84-23526
Correction and geological analysis of lunar 3.8 CM radar data 13 p2089 N84-23531
Evaluation of radargrammetric stereo
[AD-A139565] 14 p2141 N84-23835
Polarization utilization in radar target reconstruction: C-wide (Multi-frequency) band relationship of a target's characteristic operators with its unique set of natural eigenfrequencies
[AD-A140092] 15 p2321 N84-24938
The design and development of two-failure tolerant mechanisms for the Spaceborne Imaging Radar (SIR-B) antenna 15 p2348 N84-25087
On the detection of underwater bottom topography by imaging radars 17 p2718 N84-27301
On the response to ocean surface currents in synthetic aperture radar imagery 17 p2718 N84-27304
Satellite remote sensing over ice 17 p2719 N84-27308
Analysis of SEASAT SAR imagery collected during the JASIN experiment
[AD-A140584] 17 p2721 N84-27320
Detection of severe weather by FAA radars
[FAA-RD-79-91] 17 p2733 N84-27372
Feasibility study for the improvement of automatic detection of bird migration with radar images
[LEOK-TR-1983-12] 18 p2790 N84-27704

Speckle statistics in radar images of sea surface obtained with horizontal polarization
18 p2823 N84-27921
Venera-15, -16 radar imagery of Venus
19 p2974 N84-28855
Processing of 'Venera-15, -16' radar mapping imagery
19 p2974 N84-28856
Roughness of surface of Venus from bistatic radar data
19 p2975 N84-28857
Differential rectification of SLR-images using map-derived and radar-generated digital elevation models
[AD-A141828] 19 p3006 N84-29054
A SAR system test unit for verification of user requirements
[BMFT-FB-W-84-002] 19 p3009 N84-29074
Summary of SAR (Synthetic Aperture Radar) ocean wave data archived at ERIM (Environmental Research Institute of Michigan)
[AD-A142620] 20 p3251 N84-30633
Applications of the AVE-SESAME data sets to mesoscale studies
[NASA-CR-3619] 21 p3446 N84-31866
Atmospheric propagation effects on infrared radars
[AD-A143196] 22 p3576 N84-32651
Distribution of pack ice of Okhotsk Sea coast of Hokkaido observed with sea ice radar network, January-April 1983
23 p3762 N84-33846
Comparative geologic analysis of LANDSAT and Schuttle Imaging Radar (SIR)-A images of the Adrar des Iforas area in NE Mali
23 p3769 N84-33895
A three-dimensional description of the sea surface by means of marine navigation radar
23 p3771 N84-33906
Comparison of ocean wave energy measured by SEASAT synthetic aperture radar with SAR surface wave imaging theories
23 p3771 N84-33908
Removal of ambiguity of two-dimensional gray level variance spectra obtained by processing ship radar images of ocean waves
23 p3772 N84-33909
Analysis of bistatic SAR signatures
23 p3777 N84-33947
Optimizing image quality for SAR
23 p3777 N84-33950
Measurement of geometric distortion in airborne SAR images
23 p3778 N84-33951
Compact receivers for Shuttle Imaging Radar (SIR)-B SAR mission
23 p3778 N84-33953
Simulation of Shuttle Imaging Radar (SIR)-B imagery over Freiburg test site
23 p3779 N84-33958
Evaluation of radar stereo viewability by means of a simulation technique
23 p3779 N84-33959
Direct and inverse methods for ocean-wave imaging by SAR
23 p3783 N84-33995
Stepped frequency radar target imaging
[AD-D011187] 24 p3893 N84-34652

RADAR MAPS
NT RADAR IMAGERY
The SIR-A atlas
07 p0969 N84-16405
Venus: Global distribution of Pioneer-Venus radar roughness and reflectivity and global correlation of altimetry, roughness and reflectivity observations
13 p2077 N84-23461
Mapping of Arctic haze using airborne lidar
24 p3907 N84-34746

RADAR MEASUREMENT
Ionospheric factors affecting the performance of HF sky-wave sea-state radars
06 p0868 N84-15656
The Canadian programme of experimental measurement of sea-state characteristics by sky-wave radar
06 p0869 N84-15657
F-region variability and HF-propagation
06 p0869 N84-15658
Automatic electron density profiles from digital ionograms
06 p0869 N84-15659
Extraterrestrial radio noise and its effect on radar performance
06 p0870 N84-15662
Radar investigations of asteroids
[NASA-CR-175348] 07 p1092 N84-17100
Structural function of lunar relief according to radar data
17 p2630 N84-26823
Jet stream related observations by MST radars
17 p2682 N84-27078
MST radar detection of middle atmosphere tides
17 p2682 N84-27079
Meteorological and dynamical requirements for MST radar networks: Waves
17 p2683 N84-27080
Radar observations of inertial period waves in the lower stratosphere over Arecibo
17 p2683 N84-27081
Equatorial MST radars: Further consideration
17 p2683 N84-27083
Morphology of the scattering target: Fresnel and turbulent mechanisms
17 p2684 N84-27087
Mesospheric scatter and its microstructure
17 p2684 N84-27090
The spaced antenna drift method
17 p2687 N84-27107
Spaced antenna drift
17 p2687 N84-27108
Mesopheric turbulence intensities measured with a HF radar at 35 deg S. Part 2
17 p2689 N84-27128
Capabilities and limitations of the Jicamarca radar as an MST radar
17 p2690 N84-27130
Capabilities and limitations of existing MST radars: Colorado wind profilers
17 p2690 N84-27132
VHF radar measurements during MAP/WINE
17 p2691 N84-27135
Stratosphere and troposphere (S-T) studies at Millstone Hill. Recent results, capabilities and limitations
17 p2691 N84-27137
Capabilities and limitations of the Sondrestrom radar for ST observations
17 p2691 N84-27139
Outline of the Mu radar
17 p2691 N84-27140
Design considerations of a proposed UK VHF radar
17 p2692 N84-27142
The evolutionary trend in airborne and satellite radar altimeters
17 p2718 N84-27300
Nordsee radar backscatter measurements data report
[AD-A141914] 20 p3173 N84-30148
Range corrections for airborne radar - A joint STARS study
[AD-A142363] 20 p3174 N84-30154
Preliminary report of HF radar measurements of surface currents east of the Strait of Gibraltar near Marbella, Spain, 7-22 October 1982, part 2
[PB84-183664] 20 p3251 N84-30637

RADAR NAVIGATION
Investigation of image enhancement techniques for the development of a self-contained airborne radar navigation system
[NASA-CR-166530] 16 p2445 N84-25684

RADAR NETWORKS
Rivista Tecnica Selenia, volume 8, number 1
17 p2652 N84-26961
Introduction to multiradar tracking systems
17 p2653 N84-26964
Middle Atmosphere Program. Handbook for MAP, volume 9
[NASA-CR-173439] 17 p2682 N84-27076
Planned radar network in hail suppression
18 p2888 N84-28331
Radar network in West Germany — meteorological radar
18 p2888 N84-28332
Radar network in Sweden — meteorological radar
18 p2888 N84-28333
Data Report. Low Temperature Science. Series A: Physical Sciences
[ISSN-0385-3683] 23 p3762 N84-33842

RADAR OBSERVATION
U RADAR TRACKING

RADAR PHOTOGRAPHY
Interpretability of wetland on SEASAT-A imagery in the polderland of Flanders: A structural approach
03 p0397 N84-12597
Mapping and geological analysis of Mercury radar data
13 p2089 N84-23532

RADAR RANGE
Superregenerative amplifier in linear mode as a radar range gate-derivations
[DE84-000978] 04 p0528 N84-13474
Range performance calculations using the NVEOL-Georgia Tech Research Institute 0.1- to 100-GHz radar performance model
[AD-A133881] 05 p0667 N84-14387
A FMCW radar ranging device for the teleoperator maneuvering system
06 p0930 N84-16045
S-band range tracker and Surveillance Lab interface
[AD-A134730] 08 p1145 N84-17451
Pulse heterodyne equipment for measurements of range and velocity of moving targets — pulse radar
[DFVLR-FB-83-18] 10 p1483 N84-19696
Range gate dependence of specular echoes
17 p2684 N84-27088
Range corrections for airborne radar - A joint STARS study
[AD-A142363] 20 p3174 N84-30154

RADAR RECEIVERS
Bistatic radar cross sections of chaff
[AD-A133967] 05 p0667 N84-14384
Laser radar analyses
[AD-A133295] 06 p0850 N84-15540
Optimum and sub-optimum processors for multistatic radar systems
06 p0906 N84-15885
A radar signal processor implemented with surface acoustic waves devices
06 p0907 N84-15889
Atmospheric scintillation at 94 GHz
[AD-A134743] 08 p1145 N84-17452
Calibration measurements of Doppler receivers — satellite Doppler positioning
08 p1174 N84-17647
High angular resolution microwave sensing with large, sparse, random arrays
[AD-A138717] 13 p1983 N84-22874
Capabilities and limitations of the Sondrestrom radar for ST observations
17 p2691 N84-27139
Outline of the Mu radar
17 p2691 N84-27140
Design considerations for high-power VHF radar transceivers (keynote paper)
17 p2692 N84-27143
A transceiver module of the Mu radar
17 p2692 N84-27147
Design considerations for high-power VHF radar transceivers: T/R switch design
17 p2693 N84-27151
Autocorrelation receiver for Doppler short-range radar systems
22 p3566 N84-32589
Simulation of an electronic countermeasure technique
[AD-D011143] 22 p3572 N84-32619
Autonomous Integrated Receive System (AIRS) requirements definition. Volume 4: Functional specification for the prototype Automated Integrated Receive System (AIRS)
[NASA-CR-175264] 22 p3576 N84-32649
High frequency radar software reference manual for product one
[PB84-194885] 22 p3578 N84-32665
Compact receivers for Shuttle Imaging Radar (SIR)-B SAR mission
23 p3778 N84-33953
Some test results of synthetic aperture radar transmitter and receiver — satellite SAR
23 p3783 N84-33998
Receiver concepts for data transmission at 10 microns — between satellites
24 p3905 N84-34732

RADAR RECEPTION
Extraterrestrial radio noise and its effect on radar performance
06 p0870 N84-15662
Discrimination against interfering signals at the Poker Flat MST radar
17 p2685 N84-27097
Pulse stuttering as a remedy for aliased ground backscatter
17 p2685 N84-27098
The delta S (delta R)-2 question: The pulse-length dependence of signal power for Fresnel scatter
17 p2685 N84-27099
Jicamarca mesospheric observations
17 p2686 N84-27100
Techniques for measurements of horizontal and vertical velocities
17 p2686 N84-27104
Techniques for measurement of vertical and horizontal velocities: Monostatic versus bistatic measurements
17 p2686 N84-27105
A comment on some drawbacks of monostatic radars
17 p2686 N84-27106

RADAR REFLECTIONS
U RADAR ECHOES

RADAR REFLECTORS
NT RADAR CORNER REFLECTORS

RADAR RESOLUTION
Range resolution of targets
[AD-A131065] 01 p0067 N84-10437
Propagation effects in satellite-borne synthetic aperture radars
06 p0867 N84-15650
Effects of pulse width and coding on radar returns from clear air
17 p2684 N84-27092
Spectral characteristics of the MST radar returns
17 p2685 N84-27094
Pulse compression using binary phase codes
17 p2692 N84-27145

RADAR SCANNING
A computer program for the prediction of search radar performance
[AD-A131080] 01 p0067 N84-10436
Detection of cavities under concrete pavement
[AD-A131851] 03 p0358 N84-12331
The Venus Radar Mapper: Radar system design for highly elliptical orbits
23 p3782 N84-33986

RADAR SCATTERING
Radar waveform synthesis for target identification
[AD-A130363] 01 p0063 N84-10412
Interaction of the radar waves with the capillary waves on the ocean
[AD-A129690] 01 p0064 N84-10421
Radar remote sensing for crop classification and canopy condition assessment: Ground-data documentation
[E84-10020] 01 p0099 N84-10643
Effects of nonlinear loads on antennas and scatterers
03 p0365 N84-12376
Radar investigation of soils and sea (ERASME): C band helicopter-borne scatterometer. Application to soil moisture measurement
03 p0396 N84-12588
Application of pseudoinversion to linear system identification with discrete measurements
[AD-A132283] 04 p0521 N84-13422
A review of propagation and scattering factors in remote-sensing and ship-tracking by HF radar
06 p0868 N84-15655
Oceanographic and meteorological research based on the data products of SEASAT
[E84-10077] 07 p1021 N84-16624
Radar response from vegetation with nodal structure
[E84-10085] 10 p1520 N84-19956

Polarimetric principles and techniques
[AD-A139252] 12 p1805 N84-21766
Determination of the sources of radar scattering
12 p1832 N84-21941
Determination of the sources of radar scattering
12 p1834 N84-21954
Investigation of non-linear estimation of natural resonances in target identification
[AD-A139027] 13 p1984 N84-22878
Radar backscatter modelling
13 p2088 N84-23525
The case for aeolian control of meter-scale surface texture on Mars 13 p2088 N84-23528
Radar investigation of asteroids
[NASA-CR-173603] 16 p2576 N84-26530
Identification of scattering mechanisms from measured impulse response signatures of several conducting objects
[AD-A140773] 17 p2653 N84-26971
Interpretation of MST radar returns from clear air
17 p2683 N84-27085
On the morphology of the scattering medium as seen by MST/ST radars 17 p2684 N84-27086
Fresnel zone considerations for reflection and scatter from refractive index irregularities
17 p2684 N84-27091
Jicamarca mesospheric observations
17 p2686 N84-27100
Nighttime mesospheric returns associated with a large scale flare event 17 p2686 N84-27103
Evidence for parallel elongated structures in the mesosphere 17 p2689 N84-27122
Parametrization of Fresnel returns in middle-atmosphere radar experiments 17 p2689 N84-27123
Parametrization of Fresnel returns
17 p2689 N84-27124
The relationship between strength of turbulence and backscattering radar power at HF and VHF
17 p2689 N84-27125
Relationship of strength of turbulence to received power 17 p2689 N84-27126
On the extraction of atmospheric turbulence parameters from radar backscatter Doppler spectra. Part 1: Theory
17 p2689 N84-27127
Stratosphere and troposphere (S-T) studies at Millstone Hill. Recent results, capabilities and limitations
17 p2691 N84-27137
The Arecibo Observatory as an MST radar
17 p2691 N84-27138
Capabilities and limitations of the Sondrestrom radar for ST observations 17 p2691 N84-27139
Properties of echo spectra observed by MST radars
17 p2696 N84-27171
Project Noordwijk. Part 4: The radar backscatter of oil spills as measured at platform Noordwijk
[PHL-1983-47] 17 p2725 N84-27344
Backscatter measurements on snow covered terrain at 94 GHz — radar
[REPT-4-84] 20 p3172 N84-30144
Nordsee radar backscatter measurements data report
[AD-A141914] 20 p3173 N84-30148
The X, and L-band radar backscatterer analysis of agricultural crops in West Germany
23 p3767 N84-33879
Radar backscattering of forest stands
23 p3767 N84-33880
Use of multi-frequency, multi-polarization, multi-angle airborne radars for class discrimination in a southern temperature forest 23 p3767 N84-33881
On the relationships between radar backscattering coefficient and vegetation canopy characteristics
23 p3768 N84-33882
On the SAR response of agricultural targets in a northern prairie environment 23 p3770 N84-33896
Measurements of microwave backscattering signatures of the ocean surface using X-band and Ka-band airborne scatterometer/radiometer system
23 p3771 N84-33907
Active microwave measurements of sea ice in the marginal ice under summer conditions
23 p3772 N84-33913
The effect of wavelength filtering in rough surface scattering 23 p3778 N84-33957
The modification of the modulation transfer function by sea slicks measured by L-band radar
23 p3780 N84-33971

RADAR SIGNATURES
Transient waveform synthesis for radar target discrimination 05 p0664 N84-14366
Shuttle Imaging Radar: A/B sensors
07 p0987 N84-16395
Radar activities of the DFVLR Institute for Radio Frequency Technology 07 p0990 N84-16418
Radar investigation of asteroids
[NASA-CR-173603] 16 p2576 N84-26530
Identification of scattering mechanisms from measured impulse response signatures of several conducting objects
[AD-A140773] 17 p2653 N84-26971
Spectral characteristics of the return
17 p2685 N84-27095
Interpretation of radar returns from clear air: Discrimination against clutter 17 p2685 N84-27096
Solar control of winter mesospheric echo occurrence at Poker Flat, Alaska 17 p2686 N84-27102
Proceedings of the Conference on Microwave Signatures in Remote Sensing
[FOA-C-30359-E1,E3] 19 p3042 N84-29305
Analysis of bistatic SAR signatures
23 p3777 N84-33947

RADAR TARGETS
Radar waveform synthesis for target identification
[AD-A130363] 01 p0063 N84-10412
A simulation analysis of space-based and airborne moving platform radars in look-down clutter
[AD-A133813] 05 p0667 N84-14369
The effect of turbulent atmosphere on backscattered waves 06 p0870 N84-15684
Polarization diversity combining for reduction of angular scintillation: Probability density function for a Two-Point-Scatterer target
[AD-A135859] 09 p1300 N84-18499
Accuracy estimate for radar cross section measurements of targets modelled by multiple independent scatterers in constant clutter
[AD-A138075] 12 p1806 N84-21775
A minimum range criterion for RCS (Radar Cross-Section) measurements of a target dominated by point scatterers
[AD-A138230] 12 p1807 N84-21780
Clutter cancellation techniques for use in a space-based radar system
[AD-A138467] 12 p1808 N84-21784
Target super-resolution compensation for coherent airborne radar utilizing spread spectrum waveforms
[AD-A138545] 13 p1982 N84-22866
Tropospheric propagation assessment
15 p2326 N84-24965
Identification of scattering mechanisms from measured impulse response signatures of several conducting objects
[AD-A140773] 17 p2653 N84-26971
Synthetic aperture radar target simulator
[NASA-CASE-NPO-15024-1] 18 p2827 N84-27951
Comparison of six integrators used in long-term radar integrations
[AD-A141536] 19 p3005 N84-29046
Broadside radar cross section of the perfectly conducting cube
[AD-A143321] 22 p3577 N84-32656
Stepped frequency radar target imaging
[AD-D011187] 24 p3893 N84-34652

RADAR TRACKING
Survey of radar Automatic Detection and Tracking (ADT)
[AD-A130358] 01 p0064 N84-10420
Microcomputer aided tracking (MCAT)
[AD-A130651] 01 p0065 N84-10426
An evaluation of an automatic cell detection and tracking algorithm
[AD-A130088] 01 p0107 N84-10694
Observations of the upper troposphere and lower stratosphere using the urbana coherent-scatter radar
[NASA-CR-174594] 03 p0407 N84-12684
Operational applications of military test ranges in space transportation system programs
[AD-A132535] 04 p0490 N84-13217
A review of propagation and scattering factors in remote-sensing and ship-tracking by HF radar
06 p0868 N84-15655
A long range propagation experiment to investigate the incidence of anomalous propagation in the north Atlantic
06 p0871 N84-15669
Results of foil cloud experiments performed at Esrange (Kiruna, Sweden) and Andenes (Andoya, Norway) during the Energy Budget Campaign, November 1981 — wind measurement
[BMFT-FB-W-83-012] 07 p1034 N84-16710
S-band range tracker and Surveillance Lab interface
[AD-A134730] 08 p1145 N84-17451
Atmospheric scintillation at 94 GHz
[AD-A134743] 08 p1145 N84-17452
Pertinent meteorological data for hurricane Allen of 1980
[PB84-104322] 08 p1192 N84-17766
The search for gravitational waves with ISPM
09 p1263 N84-18241
Polarization diversity combining for reduction of angular scintillation: Probability density function for a Two-Point-Scatterer target
[AD-A135859] 09 p1300 N84-18499
Construction of a model of the Venus surface and its use in processing radar observations
[NASA-TM-77296] 09 p1416 N84-19264
Accuracy estimate for radar cross section measurements of targets modelled by multiple independent scatterers in constant clutter
[AD-A138075] 12 p1806 N84-21775
MDR-processing manually digitized observations
[PB84-161462] 14 p2181 N84-24070
Range safety transponder catalog
[AD-A140095] 15 p2270 N84-24631
Introduction to multiradar tracking systems
17 p2653 N84-26964
Detection of severe weather by FAA radars
[FAA-RD-79-91] 17 p2733 N84-27372
Tracking with intermittent radar coverage. 1: Interruptions after each collected frame of imagery
[AD-P003322] 18 p2910 N84-28458
AN/TPQ-36 and AN/TPQ-37 firefinder radars case study report (IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Research and Maintainability) study
[AD-A142104] 19 p3007 N84-29058
A high-resolution target-tracking concept using spectral estimation techniques
[AD-A141921] 20 p3173 N84-30149
Ku-Band rendezvous radar performance computer simulation model
[NASA-CR-171804] 22 p3576 N84-32650
Application of a probabilistic tracking filter: A first evaluation with emphasis on air traffic control. Part 1: Evaluation results
[NLR-TR-82088-U-PT-1] 23 p3692 N84-33397
Application of a probabilistic tracking filter: A first evaluation with emphasis on air traffic control. Part 2: Live traffic samples
[NLR-TR-82088-U-PT-2] 23 p3692 N84-33398

RADAR TRANSMISSION
La Recherche Aerospatiale, Bimonthly Bulletin, no. 1983-1/212, January-February 1983
[ESA-TT-814] 03 p0429 N84-12810
Relativity and radars
[AD-A133791] 05 p0668 N84-14391
The calculated performance of some radar and transmissometer systems in rain and fog at 35, 94, 140 and 240 GHz, volume 1
[AD-A133587] 06 p0825 N84-15380
Extraterrestrial radio noise and its effect on radar performance 06 p0870 N84-15662
A FMCW radar ranging device for the teleoperator maneuvering system 06 p0930 N84-16045
Effects of pulse width and coding on radar returns from clear air 17 p2684 N84-27092
The effects of pulse rate, power, width and coding on signal detectability 17 p2685 N84-27093
Interpretation of radar returns from clear air: Discrimination against clutter 17 p2685 N84-27096
The delta S (delta R)-2 question: The pulse-length dependence of signal power for Fresnel scatter
17 p2685 N84-27099
Techniques for measurements of horizontal and vertical velocities 17 p2686 N84-27104
Techniques for measurement of vertical and horizontal velocities: Monostatic versus bistatic measurements
17 p2686 N84-27105
A comment on some drawbacks of monostatic radars
17 p2686 N84-27106
A note on the use of coherent integration in periodogram analysis of MST radar signals 17 p2695 N84-27163
Homing head imperfections altering missile guidance
21 p3351 N84-31256

RADAR TRANSMITTERS
Atmospheric scintillation at 94 GHz
[AD-A134743] 08 p1145 N84-17452
The Arecibo Observatory as an MST radar
17 p2691 N84-27138
Capabilities and limitations of the Sondrestrom radar for ST observations 17 p2691 N84-27139
Outline of the Mu radar 17 p2691 N84-27140
Design considerations for high-power VHF radar transceivers (keynote paper) 17 p2692 N84-27143
Design considerations for high-power VHF radar transceivers: Distributed versus single large transmitter
17 p2692 N84-27144
A transceiver module of the Mu radar
17 p2692 N84-27147
Design considerations for high-power VHF radar transceivers: The Poker Flat MST radar phase control system 17 p2692 N84-27148
Design considerations for high-power VHF radar transceivers: Phase matching long coaxial cables using a cable radar 17 p2693 N84-27149
MST radar transmitter control and monitor system
17 p2693 N84-27150

Design considerations for high-power VHF radar transceivers: T/R switch design
17 p2693 N84-27151
High power K sub a -band transmitter for planetary radar and spacecraft uplink
22 p3572 N84-32625
Some test results of synthetic aperture radar transmitter and receiver — satellite SAR
23 p3783 N84-33966
Range-only multistatic radar system
[AD-D011201] 24 p3896 N84-34671

RADARSCOPES
NT PLAN POSITION INDICATORS

RADIAL DISTRIBUTION
Radial structure of curvature-driven instabilities in hot-electron plasma
[DE84-002256] 06 p0921 N84-15966
Thermally induced spin rate ripple on spacecraft with long radial appendages
[NASA-TM-85058] 07 p0964 N84-16249
Ultrasonic transducer with Gaussian radial pressure distribution
[NASA-CASE-LAR-12967-1] 13 p1993 N84-22932
Effect of radial load distribution on the first-harmonic inflow velocity of a helicopter rotor at transition speeds
[AD-A142840] 21 p3325 N84-31100
Protective plasma envelope
[DE84-013316] 21 p3502 N84-32194
Review of LOX Bearing and Seal Materials Tester (BSMT) radial load system
[NASA-CR-171162] 23 p3756 N84-33810
Radial inversion of TE measurements in a borehole
23 p3776 N84-33940

RADIAL DRAINAGE PATTERNS
U DRAINAGE PATTERNS

RADIAL FLOW
Solution of particulated viscous flow over a two dimensional cylinder and in a radial inflow turbine
10 p1496 N84-19782
Variable stator radial turbine
[NASA-CR-174663] 13 p1932 N84-22568
Pressure induced radial diffusion of a fluid through a thick walled highly elastic cylinder
15 p2313 N84-24881
Application of a quasi-3D inviscid flow and boundary layer analysis to the hub-shroud contouring of a radial turbine
[NASA-TM-83669] 16 p2439 N84-25647
Effect of radial inflow on vortex intensification and its application to wind vortex generators
17 p2724 N84-27335
Use of radial hemolysis method in gel for detection of antibodies to Bunya virus Lednice (Turlock virus group)
17 p2741 N84-27403
Velocity and temperature characteristics of two-stream, coplanar jet exhaust plumes
[NASA-TM-83730] 19 p2965 N84-28790

RADIAL VELOCITY
Radial evolution of ion distribution functions
03 p0470 N84-13094
Studies of cataclysmic variables
04 p0619 N84-14084
An evaluation of the accuracy of some radar wind profiling techniques
17 p2687 N84-27109
Estimating unbiased horizontal velocity components from ST/MST radar measurements: A case study
17 p2687 N84-27110
Seyfert galaxy narrow-line regions: A spectroscopic investigation
17 p2774 N84-27612
The analysis of solar models: Neutrinos and oscillations
[NASA-CR-173628] 17 p2780 N84-27652
On the masses of white dwarfs in cataclysmic binaries
21 p3524 N84-32323
The structure, internal kinematics and dynamics of open star clusters
23 p3839 N84-34357
Shell ejection phenomena in the hypergiant star P Cygni
24 p3977 N84-35189

RADIANCE
Antartic sea ice, 1973 - 1976: Satellite passive-microwave observations
[NASA-SP-459] 01 p0110 N84-10718
Atmospheric transmittance/radiance computer code FASCOD2
[AD-A130241] 01 p0147 N84-10984
LANDSAT 4 band 6 data evaluation
[E84-10001] 02 p0235 N84-11543
Atmospheric correction studies/processing image no. I-100
[INPE-2870-RPE/442] 02 p0239 N84-11568
The radiance from an isotropic point source in a multiple scattering medium
[FOA-C-30326-E2] 02 p0295 N84-11935
Normalization of water-leaving radiance obtained from the Coastal Zone Colour Scanner (CZCS) data
03 p0399 N84-12610
Air mass computer program for atmospheric transmittance/radiance calculation: FSCATM
[AD-A132108] 04 p0563 N84-13712
Thematic mapper radiomtric variability on ostensibly uniform agricultural scenes
[E84-10035] 06 p0864 N84-15626
Techniques for measuring radiance in the air and sea
06 p0871 N84-15672
Optical multiple sample vacuum integrating sphere
[NASA-CASE-GSC-12849-1] 06 p0917 N84-15960
Study of spectral/radiometric characteristics of the thematic mapper for land use applications
[E84-10058] 07 p1020 N84-16615
LANDSAT-4 horizon scanner performance evaluation
[E84-10079] 07 p1022 N84-16626
Angular corrections of satellite derived measurements of radiances
10 p1534 N84-20046
Error analysis of satellite derived radiation flux densities
10 p1534 N84-20047
Radiation budget parameters from Meteosat-2 data
10 p1534 N84-20049
Fundamental approaches for determining the radiation budget (and corresponding activities at Meteorologisches Institut, Munich (MIM) and Institut fuer Physik der Atmosphaere (IPA))
10 p1535 N84-20053
Long wave radiance to space and net flux at the surface
10 p1535 N84-20056
Atmospheric transmittance/radiance: Computer code LOWTRAN 6
[AD-A137786] 11 p1707 N84-21126
NASA fundamental remote sensing science research program
12 p1830 N84-21930
Comprehensive understanding for vegetated scene radiance relationships
12 p1830 N84-21933
In-flight absolute radiometric calibration of the Thematic Mapper — White Sands, New Mexico
13 p2004 N84-23002
Atmospheric correction study/atmospheric model optimization
[INPE-2969-RPE/448] 13 p2010 N84-23040
Application of VISSR Atmospheric Sounder (VAS) data
[NASA-TM-82574] 13 p2016 N84-23073
Measurement of the intensity of the cosmic background radiation at 3.0 cm
[DE84-008246] 14 p2252 N84-24525
The NESDIS-SEL Lear aircraft instruments and data recording system
[NOAA-TR-NESDIS-9] 17 p2607 N84-26698
Global radiation from satellite measurements
[MITT-37] 18 p2867 N84-28200
The International Satellite Cloud Climatology Project (ISCCP): Cloud analysis algorithm intercomparison
[WCP-73] 18 p2886 N84-28313
Relative radiometric calibration of LANDSAT TM reflective bands — San Francisco, California
20 p3207 N84-30374
The effect of point-spread function interaction with radiance from heterogeneous scenes on multitemporal signature analysis — soybean stress
20 p3211 N84-30400
Radiometric accuracy assessment of LANDSAT-4 Multispectral Scanner (MSS) data — Vermont
20 p3211 N84-30401
Radiometric calibration and geocoded precision processing of LANDSAT-4 Multispectral Scanner products by the Canada Centre for Remote Sensing
20 p3212 N84-30404
The advantages of sounding with the smaller detectors of the VISSR atmospheric sounder
[NOAA-TM-NESDIS-6] 20 p3240 N84-30571
Prelaunch absolute radiometric calibration of the reflective bands on the LANDSAT-4 protoflight Thematic Mapper
[E84-10180] 21 p3428 N84-31751
Prelaunch absolute radiometric calibration of LANDSAT-4 protoflight Thematic Mapper
[E84-10181] 21 p3429 N84-31752
Relative radiometric calibration of LANDSAT TM reflective bands
[E84-10186] 21 p3429 N84-31757
Mesoscale analysis of VAS 6.7 micron image data for several case studies
24 p3930 N84-34873

RADIANT COOLING
Radiative cooler — spacecraft radiators
[NASA-CASE-NPO-15465-1] 13 p1988 N84-22903

RADIANT ENERGY
U RADIATION

RADIANT FLUX DENSITY
NT ELECTRON FLUX DENSITY
NT ILLUMINANCE
NT IRRADIANCE
NT LUMINANCE
NT LUMINOUS INTENSITY
NT NEUTRON FLUX DENSITY
NT RADIANCE
NT SOLAR CONSTANT
NT SOLAR FLUX DENSITY
The 3-10 keV and 0.1- to 2-MeV observations of 4 gamma-ray bursts
[DE84-001334] 05 p0766 N84-15022
Triggering at high luminosity: Fake triggers from pile-up
06 p0913 N84-15932
Assessment of satellite power flux-density limits in the 2025-2300 MHz frequency range, part 1
[PB84-129402] 09 p1305 N84-18532
IRSIM: A program for the calculation of infrared flux intensity incident on a spacecraft inside a test chamber
10 p1440 N84-19400
Plasma focus evolution in time as seen from its neutron, gamma and X ray activities
10 p1582 N84-20365
Cosmology
10 p1594 N84-20447
Rocket observations of the diffuse ultraviolet background
10 p1598 N84-20470
The impulsive hard X-rays from solar flares
[NASA-CR-175431] 11 p1759 N84-21480
Thermomagnetic generator
[DE84-007685] 15 p2365 N84-25189
Basic elements of the tilting filter photometer
[INPE-3124-MD/026] 16 p2495 N84-26006
Spherical heat radiation receiver with white target
18 p2827 N84-27945
Use of space-diverse photoreceivers for analysis of interference patterns
21 p3377 N84-31429
Expendable infrared source and method therefor
[AD-D011112] 22 p3561 N84-32551
The effect of dimensionality on solar spectrum curves
[DE84-014136] 22 p3680 N84-33327
Certain features of laser welding with penetrating melting
23 p3709 N84-33513
Balloon test project: Cosmic Ray Antimatter Calorimeter (CRAC)
[NASA-TM-77481] 23 p3750 N84-33772
Coronal transients and their interplanetary effects
23 p3837 N84-34336

RADIANT HEATING
Kinetics of solid-phase crystallization in ion-implanted and deposited amorphous-silicon films
[DE83-015499] 02 p0300 N84-11967
Theoretical aspects of throat-launch microwave heating in EBT-S
[DE83-015762] 03 p0438 N84-12875
Design guidelines for heating aircraft hangars with radiant heaters
[AD-A138496] 12 p1774 N84-21585
Thermoelastic stresses in metal with temperature: Dependent properties in radiant heating
[BLL-M-35526-(5828.4)] 13 p1960 N84-22733
Noncontradictory method of calculating radiation transfer, and problem of shock wave structure
21 p3481 N84-32060

RADIANT INTENSITY
U RADIANT FLUX DENSITY

RADIATION
Quasars and galaxies with active nuclei
10 p1594 N84-20448
Cooling of semiinfinite body under conditions of nonlinear heat transfer at surface
21 p3483 N84-32075
Measurement of specific absorption rate in human phantoms exposed to simulated Air Force radar emissions
[AD-A143570] 22 p3631 N84-33007
Data Report. Low Temperature Science. Series A: Physical Sciences
[ISSN-0385-3683] 23 p3762 N84-33842

RADIATION ABSORPTION
NT ATMOSPHERIC ATTENUATION
NT ELECTROMAGNETIC ABSORPTION
NT INFRARED ABSORPTION
NT MOLECULAR ABSORPTION
NT MULTIPHOTON ABSORPTION
NT PHOTOABSORPTION
NT ULTRAVIOLET ABSORPTION
NT X RAY ABSORPTION
Calculation of atmospheric transmittance by IBM 3033 computer code LOWTRAN IIIB
[AD-A132123] 04 p0604 N84-13989
Effects of long-term low-level radiofrequency radiation exposure on rats. Volume 1: Design, facilities, and procedures
[AD-A134079] 06 p0885 N84-15756
Parameterization of cloud effects on the absorption of solar radiation
[NASA-CR-175154] 07 p1035 N84-16712
An investigation of methods for computing long path atmospheric transmittance
[AD-A136434] 09 p1345 N84-18785

Effects of long-term low-level radiofrequency radiation exposure on rats. Volume 3: SAR (Specific Absorption Rate) in rats exposed in 2450-MHz circularly polarized waveguide
[AD-A135376] 09 p1361 N84-18890
Effects of long-term low-level radiofrequency radiation exposure on rats. Volume 2: Average SAR and SAR distribution in man exposed to 450-MHz RFR
[AD-A135455] 09 p1361 N84-18891
Estimation of melting rate of snow by simple formulae using only air temperature 15 p2353 N84-25121
Nonlinear transmission of laser radiation by ZnTe monocrystals at helium temperatures 17 p2636 N84-26863
Comparative effects of bremsstrahlung, gamma, and electron radiation on rat motor performance
[AD-P003250] 18 p2904 N84-28417
Ray tracing study of electron cyclotron heating in the TBR 2 Tokamak
[INPE-3192-PRE/556] 21 p3500 N84-32181
Develop real-time dosimetry concepts and instrumentation for long-term missions
[NASA-CR-171809] 22 p3599 N84-32791
Millimetre waves: A problem for the future 24 p3915 N84-34790
Solar thermal propulsion: An investigation of solar radiation absorption in a working fluid
[AD-A144294] 24 p3917 N84-34797

RADIATION BELTS
The physics of a single-event upset in integrated circuits: A review and critique of analytical models for charge collection
[NASA-CR-173471] 12 p1912 N84-22459
Magnetic effect of quiet ring current 17 p2708 N84-27244
The Earth's radiation belts
[AD-A142673] 20 p3241 N84-30574
Cyclotron resonant scattering of energetic electrons by electromagnetic waves in the magnetosphere 22 p3621 N84-32946

RADIATION CHEMISTRY
NT PHOTODECOMPOSITION
NT PHOTODISSOCIATION
NT PHOTOLYSIS
Effects of lunar soil and metal oxides on thermal and radiochemical stability of amino acids 14 p2251 N84-24518
Activities report of the Department of Chemistry
[OEFZS-4273] 18 p2931 N84-28588
USSR report: Chemistry
[JPRS-UCH-84-007] 24 p3867 N84-34508

RADIATION COUNTERS
NT ELECTRON COUNTERS
NT NEUTRON COUNTERS
NT NEUTRON SPECTROMETERS
NT PROPORTIONAL COUNTERS
NT QUANTUM COUNTERS
NT SCINTILLATION COUNTERS
NT SPARK CHAMBERS
Status of P714 - LAPDOG
[DE83-013613] 01 p0164 N84-11079
TFTR alpha extraction and measurement project
[DE83-018120] 03 p0448 N84-12947
Methods for deconvoluting and interpreting complex gamma and X-ray spectral regions
[DE83-013585] 03 p0454 N84-12991
Development of a segmented n-type germanium detector, and its application to astronomical gamma-ray spectroscopy
[NASA-TM-85435] 03 p0461 N84-13039
Major detectors in elementary particle physics
[LBL-91-SUPPL] 06 p0910 N84-15910
Breakdown processes in wire chambers, prevention and rate capability 06 p0912 N84-15923
The concept of a solid state direct chamber 06 p0912 N84-15924
The development and test of multi-anode microchannel array detector systems. 2: Soft X-ray detectors
[NASA-CR-173245] 07 p0996 N84-16457
X-ray sensor development for magnetospheric research
[NASA-CR-173172] 07 p1006 N84-16525
Incident velocity distributions on sampling electrodes of spacecraft plasma instruments 08 p1117 N84-17267
The cosmic ray energy spectrum from 2 x 10-17 to 10-e-19 EV 08 p1246 N84-18146
Optical time-domain reflectometer performance and calibration studies
[PB84-110964] 09 p1390 N84-19082
Modulated voltage metastable ionization detector
[NASA-CASE-ARC-11503-1] 13 p2019 N84-23093
Nuclear particle detection using a track-recording solid 18 p2800 N84-27769
Ion mass spectrometer
[NASA-CASE-NPO-15423-1] 18 p2838 N84-28016
Radionuclide counting technique for measuring wind velocity and direction
[NASA-CASE-LAR-12971-1] 18 p2883 N84-28292
Improved gaseous leak detector
[DE84-011295] 20 p3190 N84-30265

RADIATION DAMAGE
NT LASER DAMAGE
Radiation damage in optical fibers
[DE83-012740] 02 p0295 N84-11932
Radiation damage and phase instability in irradiated stainless steel
[DE83-017190] 03 p0354 N84-12303
Comparison of damage microstructures in neutron-irradiated vanadium and iron
[DE83-017189] 03 p0354 N84-12304
Radiolysis of resist polymers. 1: Poly(methyl-alpha-haloacrylates) and copolymers with methylmethacrylate
[AD-A131864] 03 p0356 N84-12315
Early mechanisms in radiation-induced biological damage
[DE84-001511] 04 p0572 N84-13765
A simple model of space radiation damage in GaAs solar cells
[NASA-TP-2242] 04 p0603 N84-13978
Neutron measurements and radiation damage calculations for fusion materials studies
[DE83-014790] 04 p0606 N84-14011
Study of defects produced in tungsten by 800-MeV protons using field-ion microscopy
[DE84-001359] 04 p0613 N84-14048
Radiation damage in silicon detectors
[DE84-001460] 04 p0614 N84-14056
Evaluation of radiation damage to Metal-Oxide-Semiconductor (MOS) devices
[AD-A133593] 06 p0923 N84-16002
Temperature aspects of pulsed ion bombardment in an austenitic alloy
[DE84-003382] 06 p1134 N84-17376
Electric field distortion in electro-optical devices subjected to ionizing radiation
[AD-A136573] 09 p1308 N84-18549
Effect of ion sputtering on the interface chemistry and electrical properties of Au/n-GaAs (100) Schottky contacts 09 p1393 N84-19099
Effect of ion sputtering on interface chemistry and electrical properties of an GaAs (100) Schottky contacts 09 p1393 N84-19100
Fundamental radiation damage processes in silicon
[AD-A136033] 09 p1396 N84-19119
Materials implications of advanced thermal and kinetic energy threats 10 p1508 N84-19872
A comparison of radiation damage in liner ICs from cobalt-60 gamma rays and 2.2-MeV electrons
[NASA-CR-173474] 12 p1901 N84-22380
Radiation damage and defect behavior in ion-implanted, lithium counterdoped silicon solar cells
[NASA-TM-83646] 13 p1985 N84-22890
Optical fibers and components experiment (A0138-7) 15 p2278 N84-24683
Study of defects produced by the growth, post treatment and fabrication of quartz
[AD-A139834] 15 p2413 N84-25485
Comparative measurement of capacitance in solar cells for space and terrestrial applications 17 p2662 N84-26984
Semiconductors investigated by time resolved Raman absorption and photoluminescence spectroscopy using femtosecond and picosecond laser techniques
[AD-A141381] 19 p3029 N84-29209
Space Photovoltaic Research and Technology 1983. High Efficiency, Radiation Damage, and Blanket Technology
[NASA-CP-2314] 19 p3043 N84-29307
Radiation testing of GaAs on CRRES and LIPS experiment 19 p3044 N84-29314
Radiation Damage Workshop 19 p3049 N84-29346
Proton-induced single event upsets in 71 Earth-satellite environments
[AD-A142435] 20 p3272 N84-30771
Characterization of micron-sized, optical coating defects by photothermal deflection microscopy
[DE84-011150] 20 p3301 N84-30960
Defect production efficiencies in thermal neutron irradiated copper and molybdenum
[DE84-010993] 20 p3309 N84-31018
Ionizing emissions and electronics
[AD-A142065] 21 p3383 N84-31466
The effects of lithium counterdoping on radiation damage and annealing in n(+)p silicon solar cells
[NASA-TM-83755] 21 p3390 N84-31513
Radiation effects in optoelectronic devices
[DE84-012889] 21 p3499 N84-32176
Ion bombardment damage in a modified Fe-9Cr-1Mo steel
[DE84-014288] 22 p3557 N84-32522
Roles of ionizing radiation in cell transformation
[DE84-013397] 22 p3629 N84-32995
Radiation effects in silicon and gallium arsenide solar cells using isotropic and normally incident radiation
[NASA-CR-174007] 24 p3916 N84-34793

RADIATION DETECTORS
NT DOSIMETERS
NT SILICON RADIATION DETECTORS
Smarter radiation monitors for safeguards and security
[DE83-015259] 02 p0224 N84-11468
Crystal growth and applications of mercuric iodide
[DE83-016731] 02 p0299 N84-11966
Proceedings of the Summer Workshop on Proton Decay Experiments
[DE83-009572] 04 p0603 N84-13980
Radiation damage in silicon detectors
[DE84-001460] 04 p0614 N84-14056
New-generation low-power radiation survey instruments
[DE84-001716] 05 p0685 N84-14506
Proceedings of the 1983 DPF Workshop on Collider Detectors: Present Capacities and Future Possibilities
[LBL-15973] 06 p0910 N84-15911
Cross section estimates for multi-TeV physics 06 p0911 N84-15914
Searching for limitations in capability due to high average rates 06 p0911 N84-15919
Detectors at 20 TeV and detector considerations for a high luminosity hadron-hadron machine 06 p0911 N84-15920
Large area non-crystalline semiconductor detectors 06 p0912 N84-15925
Detecting heavy quark jets 06 p0914 N84-15939
Angular coverage of detectors 06 p0914 N84-15940
Low energy neutrino physics
[DE84-002856] 08 p1230 N84-18037
Temporal measurement of spectrally resolved output of multiline HF lasers
[AD-A137983] 12 p1819 N84-21859
Method and apparatus for precision control of radiometer
[NASA-CASE-NPO-15398-1] 13 p1992 N84-22931
Deep level impurities in germanium and silicon: Low temperature passivation or removal techniques
[DE84-006772] 13 p2048 N84-23286
Linear energy transfer spectrum measurement experiment (P0006) 15 p2276 N84-24665
Measurement of small amounts of xenon-133 in air: Report on a series of measures and tests in Stockholm and in Ljungbyhed
[FOA-C-20515-A1] 15 p2366 N84-25197
Multichannel detection systems available for flow diagnostics at AEDC
[AD-A132302] 16 p2452 N84-25722
Absolute photopeak efficiency values for an intrinsic well-type Ge detector in the gamma ray region 0.1 to 3.0 MeV
[REPT-2(1984)] 18 p2900 N84-28398
The characteristics of the cylindrical drift chambers of the detector CELLO: Investigation with muons from high altitude cosmic rays
[MPI-PAE/EXP.E1.125] 19 p3028 N84-29205
X-ray beam finder
[DE84-011100] 20 p3294 N84-30916
The study of efficient low-power diffraction designs
[NASA-CR-171142] 21 p3405 N84-31598
Development of a spectroradiometer with a linear network of detectors from standard CCD
[INPE-3095-TDL/165] 22 p3657 N84-33180

RADIATION DISTRIBUTION
NT ANTENNA RADIATION PATTERNS
NT DIFFRACTION PATTERNS
NT SIDELOBES
A study of the angular radiation of Smith-Purcell radiation
[AD-A130095] 01 p0141 N84-10925
Aperture efficiency considerations in the convolution synthesis of symmetrical hexagonal arrays
[AD-A133367] 06 p0824 N84-15369
Theoretical studies relating to the interaction of radiation with matter: Atomic collision processes occurring in the presence of radiation fields
[AD-A134299] 07 p1071 N84-16960
Some characteristics of radiation field in medium with fluctuating optical parameters 17 p2699 N84-27192
Cloud recognition from bispectral histograms
[MITT-38] 18 p2891 N84-28352
Use of space-diverse photoreceivers for analysis of interference patterns 21 p3377 N84-31429
Conformal array analysis
[AD-P003504] 21 p3384 N84-31472

Radiation from intense electron beams associated with the Cherenkov mechanism
[AD-A143350] 22 p3577 N84-32657
Time development of Cerenkov radiation
[AD-A143225] 22 p3653 N84-33155
Criteria for nearly omnidirectional radiation patterns for printed antennas
[AD-A143662] 23 p3731 N84-33646
Satellite observations of the extreme ultraviolet and far ultraviolet radiation fields 24 p3994 N84-35280

RADIATION DOSAGE
Irradiation effects on the mechanical properties of composite organic insulators
[DE83-014703] 01 p0032 N84-10202
Radiofrequency radiation exposure for bio-effects research at the Health Effects Research Laboratory, Research Triangle Park, North Carolina
[PB83-229591] 01 p0115 N84-10747
Concepts of dose to soft tissue at the cellular level
[DE83-013830] 02 p0266 N84-11748
Accuracy of external personnel dosimetry systems in mixed neutron and gamma radiation fields
[DE83-015712] 02 p0266 N84-11751
Radiation-induced phosphorus segregation in austenitic and ferritic alloys
[DE84-000903] 04 p0504 N84-13302
Dislocation/obstacle interactions during low-dose irradiation creep of nickel
[DE84-001416] 04 p0504 N84-13303
Early mechanisms in radiation-induced biological damage
[DE84-001511] 04 p0572 N84-13765
Summary of annual environmental reports for CY 1981: Department of Energy nuclear sites
[DOE/EP-0036/1] 06 p0875 N84-15692
Effects of long-term low-level radiofrequency radiation exposure on rats. Volume 1: Design, facilities, and procedures
[AD-A134079] 06 p0885 N84-15756
Dose conversion factors for inhaled radionuclides
[FOA-C-40184-A3] 06 p0890 N84-15786
Radiation protection for manned space activities
[NASA-CR-173202] 07 p1047 N84-16791
Environmental Radiation Data Report 33, January - March 1983
[PB84-104785] 08 p1183 N84-17708
Neon transport in selected organic composites --- stopping power of Kapton and polyethylene
[NASA-TM-85693] 08 p1231 N84-18044
Airborne penetration of radioactive clouds
[AD-A135848] 09 p1361 N84-18894
Operational evaluation of a new 435-mHz radiation facility
[AD-A138474] 12 p1773 N84-21564
X-ray imaging of biological specimens
[DE84-006287] 12 p1819 N84-21855
Dose in critical body organs in low Earth orbit
[NASA-TM-85778] 12 p1867 N84-22169
Article examines presence of KR-85 in atmosphere 14 p2174 N84-24021
Effects of long-term low-level radiofrequency radiation exposure on rats. Volume 5: Evaluation of the immune system's response
[AD-A136535] 14 p2184 N84-24067
A study of the mechanics of radiation damage in fiber optical waveguides
[AD-A139590] 14 p2225 N84-24352
Seeds in space experiment (P0004-1) 15 p2277 N84-24675
Thermoregulation: Long-term microwave effects
[AD-A140844] 17 p2745 N84-27432
Motor performance in irradiated rats as a function of radiation source, dose, and time since exposure
[AD-A141209] 18 p2894 N84-28363
Effects of long-term low-level radiofrequency radiation exposure on rats. Volume 6: Hematological, serum chemistry, thyroxine, and protein electrophoresis evaluations
[AD-A141124] 19 p3063 N84-29434
Human exposure in low Earth orbit
[NASA-TP-2344] 19 p3070 N84-29479
Develop real-time dosimetry concepts and instrumentation for long-term missions
[NASA-CR-171809] 22 p3599 N84-32791
Measurement of specific absorption rate in human phantoms exposed to simulated Air Force radar emissions
[AD-A143570] 22 p3631 N84-33007
Dosimetry of ozone and nitrogen dioxide in man and animals
[PB84-195304] 22 p3631 N84-33009
Integration of species sensitivity and dosimetry data in the extrapolation of ozone and nitrogen dioxide health data from animals to man
[PB84-195312] 22 p3631 N84-33010
Visual function and the definition of thresholds for exposure to laser radiation 22 p3632 N84-33019
Effect of dose rate on the microstructure of CW 316 SS
[DE84-780403] 24 p3885 N84-34614

RADIATION EFFECTS
NT LASER DAMAGE
NT RADIATION DAMAGE
NT RADIATION INJURIES
NT RADIOLYSIS
Irradiation effects on the mechanical properties of composite organic insulators
[DE83-014703] 01 p0032 N84-10202
Effects of approximate radiation treatments used in the climate models on the clear sky thermal radiation flux and its perturbation due to CO2 increase
[DOE/ER-60023/1] 01 p0104 N84-10674
Multiple-pulse laser-induced damage in crystaline and fused quartz
[DE83-015458] 01 p0154 N84-11015
Low activation approaches to materials development
[DE83-015972] 02 p0196 N84-11273
Calculations of radiation fields and monkey mid-head and mid-thorax responses in AFRRI-TRIGA reactor facility experiments
[DE83-015483] 02 p0264 N84-11741
Concepts of dose to soft tissue at the cellular level
[DE83-013830] 02 p0266 N84-11748
Radiation testing of the CMOS 8085 microprocessor family
[DE83-014604] 02 p0271 N84-11771
Single event upset phenomena from high energy neutrons
[AD-A131287] 02 p0292 N84-11914
Miniature charpy-impact test results for the irradiated ferritic alloys HT-9 and modified 9Cr-1Mo
[DE83-016935] 03 p0354 N84-12300
Effects of pulsed microwaves at 1.28 and 5.62 GHz on Rheaus monkeys (Macaca mulatta) performing an exercise task at three levels of work
[AD-A132057] 03 p0413 N84-12704
Effect of pulsed 5.62 GHz microwaves on squirrel monkeys (Saimiri sciureus) performing a repeated acquisition task
[AD-A132045] 03 p0413 N84-12706
Radiation-induced transient acoustic loss in quartz crystals
[DE83-012626] 03 p0453 N84-12980
Hole trapping, recombination, and space charge in irradiated Sandia oxides
[DE83-015212] 03 p0454 N84-12986
Comparison of compression properties and swelling of beryllium irradiated at various temperatures
[DE84-000597] 04 p0500 N84-13277
Microstructure of 9 Cr-1 MoVNb steel irradiated to 40 dpa at elevated temperatures in HFIR
[DE84-000339] 04 p0501 N84-13285
Structural performance of ceramics in a high-fluence fusion environment
[DE84-001311] 04 p0508 N84-13329
Origin of electron-bombardment enhanced reactivity of graphite with hydrogen
[DE83-017561] 04 p0600 N84-13960
Comparison of measured and calculated helium production in nickel using newly evaluated neutron cross sections for (59)Ni
[DE84-000565] 04 p0611 N84-14035
Solar radiation tests
[AD-A133689] 05 p0684 N84-14497
Biological effects of radiofrequency radiation: Review draft, parts 1, 2 and 3
[PB83-262550] 05 p0714 N84-14680
Effects of long-term low-level radiofrequency radiation exposure on rats. Volume 1: Design, facilities, and procedures
[AD-A134079] 06 p0885 N84-15756
Duration of memory loss due to electron beam exposure
[AD-A132941] 06 p0886 N84-15760
Lethal, potentially lethal lesion model
[DE84-001325] 06 p0886 N84-15762
Radiation effects in the Joint European Torus Experiment: Guidelines for preliminary design
[R857/2] 06 p0919 N84-15971
Evaluation of radiation damage to Metal-Oxide-Semiconductor (MOS) devices
[AD-A133593] 06 p0923 N84-16002
In-reactor creep behavior of selected ferritic alloys
[DE83-017005] 07 p0976 N84-16322
Swelling behavior of a simple ferritic alloy
[DE84-003162] 07 p0976 N84-16329
Ion implantation in polymers
[AD-A134482] 07 p0979 N84-16342
Laser effects and vulnerability program. Liquid propellant characterization
[AD-A134584] 07 p1010 N84-16550
Effect of radiofrequency radiation on DNA duplex stability and replication
[AD-A133526] 07 p1042 N84-16759
USSR report: Life sciences. Effects of nonionizing electromagnetic radiation, no. 13
[JPRS-84991] 07 p1043 N84-16762
Animal sensitivity to super-high frequency electromagnetic fields in correlation to age 07 p1043 N84-16766
Modification of point defects in quartz for device applications
[DE84-002611] 07 p1082 N84-17036
Effects of high energy radiation on the mechanical properties of epoxy graphite fiber reinforced composites
[NASA-CR-173293] 08 p1122 N84-17292
Comparison of the characteristics of graphites irradiated at 600 and 9000 deg C
[DE83-015695] 08 p1123 N84-17297
Improved swelling resistance for PCA austenitic stainless steel under HFIR irradiation through microstructural control
[DE84-003203] 08 p1133 N84-17370
Effects of space radiation on advanced semiconductor devices. Part 1: A review of current theories and practice in cosmic ray simulation
[G-2532-VOL-1] 08 p1153 N84-17505
Effects of space radiation on advanced semiconductor devices. Part 2: Cosmic ray simulation experiments for the study of single event upsets in CMOS technology
[G-2745-VOL-2] 08 p1153 N84-17506
Environmental Radiation Data Report 33, January - March 1983
[PB84-104785] 08 p1183 N84-17708
Review of radio-frequency, nonlinear effects on the ionosphere
[DE84-003832] 08 p1188 N84-17739
Biological Effects of Nonionizing Electromagnetic Radiation, volume 7, number 2-4, July - December 1982
[AD-A134674] 08 p1197 N84-17805
Ohmic contacts, irradiation effects, and thin film growth of GaAs and Al sub 1-x Ga sub x As
[NASA-CR-173257] 09 p1393 N84-19096
Ohmic versus rectifying contacts of Au to n-GaAs by ion sputtering 09 p1393 N84-19097
Degradation of thermal shield materials in the space radiation environment 10 p1446 N84-19448
Effects of combined ultraviolet and oxygen plasma environment on spacecraft thermal control materials --- space shuttle payloads 10 p1446 N84-19449
Biomedical Research Division significant accomplishments for FY 1983
[NASA-TM-85929] 10 p1545 N84-20128
Ultrastructural effects of radiation on cells and tissues: Concluding remarks
[DE84-003454] 10 p1545 N84-20131
Initial human response to nuclear radiation
[AD-A137543] 11 p1694 N84-21054
A study of low level laser retinal damage
[AD-A137664] 11 p1695 N84-21055
Radiofrequency radiation effects on excitable tissues
[AD-A137772] 11 p1695 N84-21056
Effects of long-term low-level radiofrequency radiation exposure on rats. Volume 4: Open-field behavior and corticosterone
[AD-A137743] 12 p1863 N84-22141
Latchup window tests
[AD-A138680] 13 p1986 N84-22894
Exposure of spacecraft coatings (S0010) 15 p2273 N84-24648
Seeds in space experiment (P0004-1) 15 p2277 N84-24675
Investigation of the effects of long-duration exposure on active optical system components (S0050) 15 p2279 N84-24687
The neutron induced embrittlement of reactor pressure vessel steels and ferritic alloys
[AD-B080746] 15 p2295 N84-24770
Functional assessment of laser irradiation
[AD-A139490] 15 p2378 N84-25273
USAFSAM (USAF School of Aerospace Medicine) review and analysis of radiofrequency radiation bioeffects literature
[AD-A140023] 15 p2379 N84-25280
Laser-induced decomposition of some allyl halides
[AD-A140426] 16 p2463 N84-25786
The particle and ultraviolet (UV) radiation testing of space materials
[ESA-PSS-01-706-ISSUE-1] 16 p2555 N84-26393
The effect of accelerated ultra violet weathering on the rain erosion resistance of coated aircraft transparencies
[AD-P003194] 17 p2591 N84-26607
Health education of population in conection with widespread use of laser radiation 17 p2742 N84-27407

Effect of decimeter waves on physical-chemical state of membranes, thymocyte chromatin and immunological reactivity of an organism 17 p2742 N84-27411
Biophysics space research 17 p2745 N84-27426
Thermoregulation: Long-term microwave effects [AD-A140844] 17 p2745 N84-27432
Interaction of high-intensity radiation with matter [BLL-M-35558-(5828.4)] 17 p2764 N84-27553
The G-002 JUFO-1 payload: Its objectives and results 18 p2801 N84-27776
Effect of electric field on build-up and annealing of E5-centers in GaAs 18 p2825 N84-27934
Motor performance in irradiated rats as a function of radiation source, dose, and time since exposure [AD-A141209] 18 p2894 N84-28363
Comparative effects of bremsstrahlung, gamma, and electron radiation on rat motor performance [AD-P003250] 18 p2904 N84-28417
The Defense Nuclear Agency intermediate dose program: An overview (effects of total-body irradiation on the performance of personnel in Army combat crews) [AD-P003253] 18 p2905 N84-28420
A questionnaire assessment of estimated radiation effects upon military task performance [AD-P003254] 18 p2905 N84-28421
Estimated effects of ionizing radiation upon military task performance: Individual combat crewmember assessment [AD-P003255] 18 p2905 N84-28422
A summary of the psychological effects of tactical nuclear warfare [AD-P003256] 18 p2905 N84-28423
The assessment of nonionizing radiation hazards [AD-P003294] 18 p2908 N84-28444
A review and evaluation of research concerning the performance effects of nuclear radiation [AD-P003295] 18 p2908 N84-28445
A guideline for heavy ion radiation testing for Single Event Upset (SEU) [NASA-CR-173731] 18 p2929 N84-28576
Ion makeup in upper atmosphere affected by source of X-ray radiation 19 p2973 N84-28850
Effects of ionizing radiation and restraint stress on activity, avoidance conditioning, and stomach ulcers in albino rats [AD-A141515] 19 p2984 N84-28911
An investigation of lyolinescence techniques for application in radiation protection dosimetry [PB83-263236] 19 p3053 N84-29373
Effects of long-term low-level radiofrequency radiation exposure on rats. Volume 6: Hematological, serum chemistry, thyroxine, and protein electrophoresis evaluations [AD-A141124] 19 p3063 N84-29434
Microwaves and human leukocyte function: Exposure of human mononuclear leukocytes to microwave energy pulse-modulated at 16 Hz or at 60 Hz [AD-A141071] 19 p3065 N84-29443
Human exposure in low Earth orbit [NASA-TP-2344] 19 p3070 N84-29479
Radiation upset threshold detector apparatus [AD-D011030] 19 p3111 N84-29769
Survey of atmospheric radiation components for the Gamma and Cosmic Ray Astrophysics Branch of the Space Science Division of the Naval Research Laboratory [AD-A141134] 19 p3124 N84-29845
Exploration of phase stability in the surfatron accelerator [DE84-011416] 20 p3193 N84-30280
Delayed effects of proton irradiation in Macaca mulatta. 3: Glucose intolerance [AD-A142289] 20 p3256 N84-30669
Biological effects of millimeter-wave irradiation: Living bacterial organisms [AD-A142474] 20 p3256 N84-30670
Time-dependent spinal cord changes following nonionizing microwave irradiation 20 p3258 N84-30678
Dissociation of amino acid-DNA complexes under influence of long-wave UV light 20 p3258 N84-30680
Preliminary result of our new Nationwide Evaluation of X-ray Trends (NEXT) program for Italy [ISS-L-84/3] 20 p3260 N84-30693
Impact of laser radiation on optical properties of polymer liquid crystal in phase transition range 20 p3266 N84-30668
Laser induced polymerization reactions in solid propellant binders 21 p3373 N84-31403
Disappearance rates of C2(a 3 Pi u) and C2(X 1 Sigma g +) with O2 over the temperature range 298-1300 deg K 21 p3373 N84-31405
Study of proton and neutron activation of metal samples in low Earth orbit [NASA-CR-171113] 21 p3430 N84-31763
USAFSAM (USAF School of Aerospace Medicine) review and analysis of radiofrequency radiation bioeffects literature [AD-A142961] 21 p3453 N84-31912
Effects of microwaves on cell membrane permeability [AD-A142979] 21 p3453 N84-31913
Effects of radiofrequency radiation on differentiation of erythroleukemic cells [AD-A143038] 21 p3453 N84-31914
USSR report: Life sciences. Biomedical and behavioral sciences [JPRS-UBB-84-017] 21 p3455 N84-31924
Experimental study of strong nonlinear-optics effects in liquid crystals 21 p3483 N84-32071
Energy characteristics of plasma generated in air near target by radiation from CO2 laser 21 p3488 N84-32103
Nonequilibrium segregation and phase instability in alloy films during elevated-temperature irradiation in a high-voltage electron microscope [DE84-013423] 21 p3505 N84-32214
Effective thermophysical and elastic properties of materials with voids [DE84-013942] 22 p3549 N84-32465
Ion bombardment damage in a modified Fe-9Cr-1Mo steel [DE84-014288] 22 p3557 N84-32522
Physical techniques for profiling heterogeneous polymer degradation [DE84-013807] 22 p3560 N84-32547
Develop real-time dosimetry concepts and instrumentation for long-term missions [NASA-CR-171809] 22 p3599 N84-32791
A study of the burning of a solid fuel surface in partial enclosures 23 p3712 N84-33532
Fatigue behavior at 650 deg of 20 percent-cold-worked type 316 stainless steel irradiated at 550 deg C in the HFIR [DE84-014269] 23 p3718 N84-33572
Fracture toughness of irradiated HT-9 [DE84-013935] 23 p3719 N84-33578
A modified tritium trick technique for doping vanadium alloys with helium [DE84-014267] 23 p3720 N84-33581
Contribution ot the high temperature deformation behavior of the austenitic steel 1.4981 after neutron irradiation [JUEL-1904] 23 p3720 N84-33584
Effects of transient ionizing radiation in various generations of TTL-circuits in the 54/74 series — nuclear explosion effect [FOA-C-30365-A3] 23 p3744 N84-33736
The energy dependence and surface morphology of Kapton (trademark) degradation under atomic oxygen bombardment 24 p3863 N84-34484
Atomic beam system for laboratory simulation of upper atmosphere oxygen atom impact on STS surfaces 24 p3863 N84-34485
Effect of dose rate on the microstructure of CW 316 SS [DE84-780403] 24 p3885 N84-34614
An experimental approach to evaluating environmental degradation mechanisms in bisphenol-A polycarbonate films on metallic substrates [SERI/TR-255-1602] 24 p3917 N84-34798
Bioelectromagnetics research in West Germany: An assessment [AD-A144297] 24 p3935 N84-34911
Bioelectromagnetics research in France: An assessment [AD-A144305] 24 p3936 N84-34912

RADIATION EMISSION
U RADIATION

RADIATION EXPOSURE
U RADIATION DOSAGE

RADIATION FIELDS
U RADIATION DISTRIBUTION

RADIATION HARDENING
Efficient radiation-hardened, 400- and 800-keV neutral-beam injection systems [DE83-015691] 03 p0440 N84-12886
Low-power radiation-hard GaAs RAM [AD-A132325] 04 p0526 N84-13457
ESD evaluation of radiation-hardened, high-reliability CMOS and MNOS ICs [DE84-000138] 04 p0529 N84-13481
Radiation hardening of oxygen-doped niobium by 14-MeV neutrons [DE84-000103] 04 p0610 N84-14026
Use of subsized specimens for evaluating the fracture toughness of irradiated materials [DE84-001500] 05 p0693 N84-14553
Thin N-I-P radiation resistant solar cells [NASA-CR-168284] 06 p0873 N84-15882
Evaluation of radiation damage to Metal-Oxide-Semiconductor (MOS) devices [AD-A133593] 06 p0923 N84-16002
Advanced on-board signal processor GaAs memory [AD-A135485] 06 p1210 N84-17890
Wire tensile testing for radiation hardening experiments [DE84-005884] 11 p1634 N84-20884
Technology of the radiation hardened MOS devices [AD-A138995] 13 p2047 N84-23283
GfW handbook: Irradiation test guidelines for radiation hardness of electronic components [HMI-B-380] 17 p2864 N84-28994
Minutes of the Fiber Optics Standardization Planning Meeting [AD-A142152] 19 p3104 N84-29722
Irradiation of optimized, MBE grown, AlGaAs radiation hardened photodiode [DE84-008034] 21 p3504 N84-32208

RADIATION HAZARDS
Atmospheric emergencies: Existing capabilities and future needs [PB83-250779] 05 p0701 N84-14602
New trends in standardization of electromagnetic microwave radiation 07 p1044 N84-16767
Test and evaluation of radioactively contaminated transducers and transmitters [AD-P002676] 11 p1657 N84-20813
Review of book on space radiobiology 15 p2378 N84-25270
Radiation protection problems caused by nonionizing electromagnetic radiation in Austria [OEFZS-4268] 18 p2900 N84-28400
The assessment of nonionizing radiation hazards [AD-P003294] 18 p2908 N84-28444
Dosimetry of ozone and nitrogen dioxide in man and animals [PB84-195304] 22 p3631 N84-33009

RADIATION HEATING
U RADIANT HEATING

RADIATION INJURIES
Radiation protection problems caused by nonionizing electromagnetic radiation in Austria [OEFZS-4268] 18 p2900 N84-28400
Laser retinal injury [AD-A144187] 24 p3936 N84-34916

RADIATION INTENSITY
U RADIANT FLUX DENSITY

RADIATION LAWS
NT KIRCHHOFF LAW OF RADIATION
NT STOKES LAW OF RADIATION

RADIATION MEASUREMENT
Flame radiation and liner heat transfer in a tubular-can combustor [NASA-TM-83538] 04 p0485 N84-13188
Radioactivity levels in humid and dry fallout gathered in the last 20 years in some points of the Padana Valley (Italy) [CISE-2069] 05 p0701 N84-14598
Suggested state regulations for control to radiation. Volume 2: Nonionizing radiation, lasers [PB84-109669] 08 p1165 N84-17587
Airborne fallout monitoring [FOA-A-40045-A3] 08 p1183 N84-17705
Environmental Radiation Data Report 31, July - September 1982 [PB84-104801] 08 p1183 N84-17709
Environmental Radiation Data Report 32, October December 1982 [PB84-104793] 08 p1184 N84-17710
Satellite measurements of radiation budgets — conferences [BMFT-FB-W-83-025] 10 p1533 N84-20044
On the derivation of cloud structure parameters from aircraft measurements 10 p1536 N84-20062
Prospective use of a mobile radiation system to validate techniques of radiation estimations from satellite records 10 p1536 N84-20064
East Europe report: Scientific affairs [JPRS-ESA-84-008] 14 p2174 N84-24020
Article examines presence of KR-85 in atmosphere 14 p2174 N84-24021
Measurements concerning increase of atmospheric radiokrypton content 14 p2174 N84-24022
Measurements of atmospheric Kr-85 concentration at ATOMKI from 1966 to 1977 14 p2174 N84-24023
Measurement of small amounts of xenon-133 in air: Report on a series of measures and tests in Stockholm and in Ljungbyhed [FOA-C-20515-A1] 15 p2366 N84-25197
Long-term hydrologic monitoring program. Rulison Event Site, Grand Valley, Colorado [DE84-008210] 15 p2368 N84-25212

Evaluation of thermocouple and thermal radiation instrumentation for measuring gas turbine combustor liner temperature
[NAL-TR-784] 16 p2495 N84-26009
Analytical capability of the environmental radiation ambient monitoring system
[PB84-166818] 16 p2520 N84-26177
Existence of a persistent background of turbulence 17 p2686 N84-27118
Spherical heat radiation receiver with white target 18 p2827 N84-27945
Radiation protection problems caused by nonionizing electromagnetic radiation in Austria
[OEFZS-4268] 18 p2900 N84-28400
The Austrian primary standard for ionizing radiation dosimetry results of international intercomparisons
[OEFZS-4269] 18 p2900 N84-28401
A guideline for heavy ion radiation testing for Single Event Upset (SEU)
[NASA-CR-173731] 18 p2929 N84-28576
Cosmic ray NM-64 neutron monitor data-9, January-December 1980, Rome, Italy
[IFSI-83-11] 18 p2954 N84-28722
Cosmic ray NM-64 neutron monitor data-10, January-December 1981, Rome, Italy
[IFSI-83-12] 18 p2954 N84-28723
Cosmic ray NM-64 neutron monitor data-9, January-December 1982, Rome, Italy
[IFSI-83-13] 18 p2954 N84-28724
Spectrum analyzer and analysis method for measuring power and wavelength of electromagnetic radiation
[AD-D011044] 19 p3027 N84-29196
Recent re-measurement of neutron and gamma-ray spectra 1080 meters from the APRD (Army Pulse Radiation Division) critical facility
[AD-A141791] 19 p3124 N84-29646
Measurement of specific absorption rate in human phantoms exposed to simulated Air Force radar emissions
[AD-A143570] 22 p3631 N84-33007
Thermoluminescence dosimeter
[DE84-014247] 23 p3751 N84-33782
Radiation measurement of snowy season in 1982-1983 at Sapporo 23 p3762 N84-33845
The 22 GHz continuum and spectral index maps of the galactic center region
[INPE-3275-PRE/599] 24 p3987 N84-35239
Spectral characteristics of cosmic ray fluctuations 24 p3993 N84-35269
Joint analysis of the data obtained by detecting the general, muon, and neutron components of cosmic ray intensity on May 7, 1978 24 p3993 N84-35270

RADIATION MEASURING INSTRUMENTS
NT BOLOMETERS
NT DICKE RADIOMETERS
NT DOSIMETERS
NT ELECTRON COUNTERS
NT ELECTROPHOTOMETERS
NT ELECTROSTATIC PROBES
NT FABRY-PEROT SPECTROMETERS
NT FLIR DETECTORS
NT HODOSCOPES
NT INFRARED DETECTORS
NT INFRARED INSTRUMENTS
NT INFRARED RADIOMETERS
NT INFRARED SCANNERS
NT INFRARED SPECTROMETERS
NT INFRARED SPECTROPHOTOMETERS
NT MICROWAVE RADIOMETERS
NT NEUTRON COUNTERS
NT NEUTRON SPECTROMETERS
NT PASSIVE L-BAND RADIOMETERS
NT PHOTOMETERS
NT PROPORTIONAL COUNTERS
NT PYRANOMETERS
NT QUANTUM COUNTERS
NT RADIATION COUNTERS
NT RADIATION DETECTORS
NT RADIOMETERS
NT SCINTILLATION COUNTERS
NT SILICON RADIATION DETECTORS
NT SOLAR SPECTROMETERS
NT SPARK CHAMBERS
NT SPECTROHELIOGRAPHS
NT SPECTROPHOTOMETERS
NT SPECTRORADIOMETERS
NT ULTRAVIOLET SPECTROMETERS

Telescope calibration for gamma spectroscopy with a new Ge(Li) diode configuration
[INPE-2885-PRE/407] 04 p0619 N84-14083
Radiac calibrators
[AD-A134611] 07 p1008 N84-16535
A nonintrusive nuclear monitor for measuring liquid contents in sealed vessels
[NASA-TM-85754] 08 p1161 N84-17560
Smart instrumentation development at Los Alamos
[DE84-003621] 10 p1499 N84-19798
Robotics at Savannah River
[DE84-003482] 11 p1712 N84-21158
Liquid crystal light valve structures
[NASA-CASE-MSC-20036-1] 12 p1912 N84-22457
Radiac survey instrumentation
[AD-A140084] 15 p2337 N84-25029
Development of an X-ray facility for radiation dosimetry studies
[MRL-R-910] 16 p2555 N84-26391
Spherical heat radiation receiver with white target 18 p2827 N84-27945
An integrating dosimeter for pulsed radiation
[AD-A141288] 18 p2844 N84-28062
Instrumentation for nonionizing radiation measurement
[PB84-180603] 20 p3191 N84-30271
Atmospheric contrast transmittance monitor
[AD-D011167] 23 p3798 N84-34083
Multi-sensor surveillance 24 p3914 N84-34780

RADIATION MEDICINE
U NUCLEAR MEDICINE

RADIATION METERS
U RADIATION MEASURING INSTRUMENTS

RADIATION NOISE
U ELECTROMAGNETIC NOISE

RADIATION PRESSURE
NT ILLUMINANCE
NT LUMINANCE
NT LUMINOUS INTENSITY
NT SOUND PRESSURE

Nonlinear acoustics in a dispersive continuum: Random waves, radiation pressure, and quantum noise 04 p0594 N84-13920
Role of the radiation pressure gradient in giant and supergiant star evolution
[DE84-001715] 05 p0763 N84-15007
Formation of dust lanes in spiral galaxies by radiation pressure 08 p1244 N84-18130
Computing the radiation pressure forces by adapting thermal design verification softwares — large space structures 12 p1780 N84-21613
The orbit of Lageos and solar eclipses
[NASA-TM-86076] 12 p1923 N84-22525
Radiation pressure induced optical bistability 14 p2241 N84-24457
The effect of radiation pressure in nova ejecta 17 p2777 N84-27629
Lageos orbit and the albedo problem 20 p3221 N84-30464
Lageos orbit and solar eclipses 20 p3221 N84-30465

RADIATION PROTECTION
NT RADIATION SHIELDING
NT SOLAR RADIATION SHIELDING

Satellite services system analysis study, part 3
[NASA-CR-171718] 02 p0183 N84-11188
Engineering hot-cell windows for radiation protection — for remote handling of radioactive materials
[DE83-014675] 03 p0356 N84-12319
Hazards Control Department annual technology review, 1982
[DE83-015596] 03 p0439 N84-12883
Radiation protection for manned space activities
[NASA-CR-173202] 07 p1047 N84-16791
A study of physical processes for space radiation protection
[NASA-CR-173183] 07 p1071 N84-16954
Intermediate energy proton stopping power for hydrogen molecules and monoatomic helium gas 07 p1071 N84-16955
Low-energy proton stopping power of N2, O2 and water vapor and deviations from Bragg's rule 07 p1071 N84-16956
A theoretical model for calculation of molecular stopping power 07 p1071 N84-16957
Robotics at Savannah River
[DE84-003482] 11 p1712 N84-21158
Radiation protection problems caused by nonionizing electromagnetic radiation in Austria
[OEFZS-4268] 18 p2900 N84-28400
Space nuclear safety program
[DE84-011015] 20 p3298 N84-30943

RADIATION RESISTANCE
U RADIATION TOLERANCE

RADIATION SHIELDING
NT SOLAR RADIATION SHIELDING

Optimization of next-event estimation probability in Monte Carlo shielding calculations
[DE83-012643] 01 p0137 N84-10900
Fusion technology development plan
[DE83-012954] 01 p0150 N84-10985
Prediction of vomiting in dogs exposed to radiation with shielding of midabdomen 02 p0261 N84-11710
Engineering hot-cell windows for radiation protection — for remote handling of radioactive materials
[DE83-014675] 03 p0356 N84-12319
Transmission of fast neutrons from the Li(d,xn) reaction through thick iron
[DE83-015975] 03 p0439 N84-12884
Monte Carlo calculations of neutron and gamma-ray energy spectra for fusion-reactor shield design: Comparison with experiment
[DE83-016932] 03 p0449 N84-12956
Field maintenance of radiation-shielding windows at HFEF
[DE83-015376] 04 p0507 N84-13326
Space reactor system and subsystem investigations: Assessment of technology issues for the reactor and shield subsystem, SP-100 Program
[DE84-001566] 04 p0603 N84-13979
Space-reactor system and subsystem investigations: Cost and schedule estimates for reactor and shield subsystems technology development. SP-100 program
[DE84-000112] 04 p0603 N84-13984
Shielding part of bone marrow as a method of local protection against cosmic radiation 07 p1044 N84-16771
Radiation protection for manned space activities
[NASA-CR-173202] 07 p1047 N84-16791
Suggested state regulations for control to radiation. Volume 2: Nonionizing radiation, lasers
[PB84-109669] 08 p1165 N84-17587
Multi-element X-ray shields for spacecraft
[AD-A137105] 10 p1449 N84-19466
Space reactor shielding: An assessment of the technology
[DE84-003319] 10 p1577 N84-20335
Energy loss of 24.8-MeV electrons by interacting with thick layers of C, Al, Cu, and Pb
[ETL-836] 13 p2046 N84-23277
Future space transport
[NASA-TM-77554] 14 p2114 N84-23668
Shuttle flight test of an advanced gamma-ray detection system
[AD-A136157] 15 p2337 N84-25030
The efficiency of wood as a passive shield for particles and photons of 0.5 to 4.6 MeV between 940 and 377 mb
[INPE-2900-TDL/146] 17 p2764 N84-27554
Human exposure in low Earth orbit
[NASA-TP-2344] 19 p3070 N84-29479
Graphite-ceramic RF Faraday-thermal shield and plasma limiter
[DE84-010960] 20 p3163 N84-30086
Galactic heavy-ion shielding using electrostatic fields
[NASA-TM-86265] 23 p3700 N84-33453

RADIATION SICKNESS
Prediction of vomiting in dogs exposed to radiation with shielding of midabdomen 02 p0261 N84-11710
The Defense Nuclear Agency intermediate dose program: An overview (effects of total-body irradiation on the performance of personnel in Army combat crews)
[AD-P003253] 18 p2905 N84-28420
A questionnaire assessment of estimated radiation effects upon military task performance
[AD-P003254] 18 p2905 N84-28421
Estimated effects of ionizing radiation upon military task performance: Individual combat crewmember assessment
[AD-P003255] 18 p2905 N84-28422
A summary of the psychological effects of tactical nuclear warfare
[AD-P003256] 18 p2905 N84-28423

RADIATION SOURCES
NT MONOCHROMATORS
NT NEUTRON SOURCES
NT POINT SOURCES

Surveys of globular cluster and galactic plane X-ray sources 04 p0622 N84-14102
A review of source location/assessment techniques — aeroacoustics 06 p0767 N84-15029
Tunable far infrared semiconductor sources
[AD-A137777] 11 p1647 N84-20767
East Europe report: Scientific affairs
[JPRS-ESA-84-006] 14 p2174 N84-24020
Plasma physics issues in advanced simulation research
[AD-A139628] 15 p2410 N84-25485
Motor performance in irradiated rats as a function of radiation source, dose, and time since exposure
[AD-A141209] 18 p2894 N84-28383
PIXE and PBFA 2: Pulsed X-ray source feasibility study
[DE84-011535] 21 p3496 N84-32155
Expendable infrared source and method therefor
[AD-D011112] 22 p3561 N84-32551
Angular resolution of coherent and noncoherent sources
[AD-A143287] 22 p3648 N84-33129

High power millimeter wavelength coherent radiation sources
[AD-A144481] 24 p3909 N84-34759

RADIATION SPECTRA
NT ABSORPTION SPECTRA
NT BALMER SERIES
NT ELECTROMAGNETIC SPECTRA
NT ELECTRONIC SPECTRA
NT EMISSION SPECTRA
NT FRAUNHOFER LINES
NT GAMMA RAY SPECTRA
NT H ALPHA LINE
NT H BETA LINE
NT H GAMMA LINE
NT H LINES
NT INFRARED SPECTRA
NT LINE SPECTRA
NT MICROWAVE SPECTRA
NT RADIO SPECTRA
NT RAMAN SPECTRA
NT RYDBERG SERIES
NT SOLAR SPECTRA
NT STELLAR SPECTRA
NT ULTRAVIOLET SPECTRA
NT VIBRATIONAL SPECTRA
NT VISIBLE SPECTRUM
NT X RAY SPECTRA

Nimbus-Earth radiation budget instrument analysis
[NASA-CR-172318] 14 p2175 N84-24029
Precision photometer for measurement of low levels of maximum power of pulses laser radiation
17 p2638 N84-26873
Determining parameters of radiating focus from amplitude spectra of body waves
17 p2704 N84-27222
Focusers of obliquely incident laser radiation
21 p3487 N84-32099

RADIATION TOLERANCE
Fusion materials irradiation test facility test-cell instrumentation
[DE83-012823] 01 p0085 N84-10552
A restraint chair with rowing-like movement for exposing exercising nonhuman primates to microwave irradiation
[AD-A132047] 03 p0413 N84-12705
Effect of pulsed 5.62 GHz microwaves on squirrel monkeys (Saimiri sciureus) performing a repeated acquisition task
[AD-A132045] 03 p0413 N84-12706
Influence of variable magnetic field on bactericidal effect of ionizing radiation 07 p1043 N84-16765
Animal sensitivity to super-high frequency electromagnetic fields in correlation to age
07 p1043 N84-16766
Technology of the radiation hardened MOS devices
[AD-A138995] 13 p2047 N84-23283
Study of factors determining the radiation sensitivity of quartz crystal oscillators (A0189)
15 p2279 N84-24886
Polymers which are resistant to ionizing radiation for paints used in light water nuclear power stations
[BLL-RISLEY-TR-4907-(9091.9F)]
17 p2626 N84-26801
Synthesis and evaluation of improved electron-beam and X-ray lithographic resist polymers
[AD-A141674] 19 p2999 N84-29006
Radiation tolerance of low resistivity, high voltage silicon solar cells 19 p3045 N84-29318
Cell and defect behavior in lithium-counterdoped solar cells 19 p3046 N84-29322
Delayed effects of proton irradiation in Macaca mulatta. 3: Glucose intolerance
[AD-A142289] 20 p3256 N84-30669
The effects of lithium counterdoping on radiation damage and annealing in n(+)p silicon solar cells
[NASA-TM-83755] 21 p3390 N84-31513

RADIATION TRANSPORT
Optimization of next-event estimation probability in Monte Carlo shielding calculations
[DE83-012643] 01 p0137 N84-10900
Monte Carlo calculations of neutron and gamma-ray energy spectra for fusion-reactor shield design: Comparison with experiment
[DE83-016932] 03 p0449 N84-12956
Radiation transport in numerical astrophysics
[DE84-002011] 05 p0763 N84-15008
Problems in astrophysical radiation hydrodynamics
[DE84-000185] 06 p0939 N84-16102
System for producing high-resolution polarized and unpolarized beams with a tandem accelerator
[DE84-004054] 09 p1388 N84-19063
Hypersonic flow around flat body in case of intense radiative heat exchange 13 p1972 N84-22795
Noncontradictory method of calculating radiation transfer, and problem of shock wave structure
21 p3481 N84-32060

RADIATION TRAPPING
A detailed consideration of resonance radiation trapping in the argon inductively coupled plasma
[AD-A139369] 14 p2222 N84-24334

RADIATIVE HEAT TRANSFER
Radiative properties of advanced spacecraft heat shield materials
[NASA-CR-3740] 02 p0193 N84-11258
Determination of the uncertainty of experimental heat-flux calibrations
[AD-A131918] 03 p0376 N84-12450
Recent progress at NBS in fire growth modeling
04 p0513 N84-13372
FACET: A radiation-view-factor computer code for axisymmetric, 2D planar and 3D geometries with shadowing
[DE84-000359] 04 p0581 N84-13835
Computer implementation, accuracy, and timing of radiation view-factor algorithms
[DE83-017618] 04 p0583 N84-13849
Loads and aeroelasticity division research and technology accomplishments for FY 1982 and plans for FY 1983
[NASA-TM-84594] 06 p0782 N84-15120
Thermal analysis research applicable to space station technology needs
[NASA-TM-84658] 06 p0834 N84-15426
Thermal and electrical interaction of tantalum with a low temperature chemically active plasma flow
[NASA-TM-77374] 06 p0920 N84-15980
Theoretical treatment of the mechanism of residual thrust
[NAL-TR-777] 09 p1274 N84-18320
Exact solution for emission from surface elements of a planet — to spaceborne telescopes
10 p1447 N84-19453
Calculation of two-dimensional focusing factor distribution due to specular flux transfer between general curves 10 p1448 N84-19459
Radiative heat transfer, Favre-averaging and turbulence closure models for combustion applications
[VTH-LR-383] 10 p1496 N84-19780
Radiation for box budgets — atmospheric heat budget
10 p1535 N84-20058
Scattering models in the microwave regime
12 p1834 N84-21950
A new parameterization of 15 micron radiative transfer for a GCM 12 p1858 N84-22105
Study of particulate formation and radiant heat loss in direct injection-type diesel engines
[PB84-160100] 15 p2344 N84-25073
Estimation of melting rate of snow by simple formulae using only air temperature 15 p2353 N84-25121
The radiative cooling resource
16 p2513 N84-26131
Radiative forcing of the Venus mesosphere
16 p2580 N84-26549
Radiative heat exchange in atmosphere disturbed by volcanic eruption 17 p2698 N84-27184
Applications of satellite observations to the radiation budget, fluxes and the general circulation
[PB83-256618] 17 p2735 N84-27383
Advanced solar power systems
18 p2872 N84-28235
Preliminary study of a radiantly heated fluidized bed for the production of high purity silicon
[NASA-CR-173758] 19 p3050 N84-29352
Hypersonic three-dimensional flow of radiating gas around wing 21 p3481 N84-32082
Heat transfer by radiation in hydrogen plasma
21 p3488 N84-32106

RADIATIVE RECOMBINATION
Zinc selenide photoelectrodes. Efficient radiative recombination in a stable photoelectrochemical cell
[AD-A141869] 19 p3051 N84-29360

RADIATIVE TRANSFER
NT RADIATIVE HEAT TRANSFER
Microwave radiometric sensitivity to soil moisture under vegetation cover 01 p0098 N84-10640
A stochastic atmospheric model for remote sensing applications
[NASA-CR-172181] 01 p0100 N84-10648
Forward multiple scattering corrections as function of detector field of view
[AD-A130631] 01 p0106 N84-10686
Atmospheric transmittance/radiance computer code FASCOD2
[AD-A130241] 01 p0147 N84-10964
Evaluation of spatial, radiometric and spectral thematic mapper performance for coastal studies
[E84-10018] 02 p0237 N84-11555
Parameterization of solar radiative transfer in clear and cloudy atmospheres 02 p0246 N84-11608
The lapse rate, surface albedo and global climatic stability: Experiments with an annual zonal energy balance model 02 p0246 N84-11610
In-flight absolute radiometric calibration of the thematic mapper
[E84-10044] 04 p0552 N84-13637
FACET: A radiation-view-factor computer code for axisymmetric, 2D planar and 3D geometries with shadowing
[DE84-000359] 04 p0581 N84-13835
Radiative transfer and photochemistry in the upper atmosphere of Jupiter 04 p0621 N84-14095
Application of two-dimensional discrete-ordinates methods to multiple scattering of laser radiation
[AD-A133258] 06 p0849 N84-15539
In-flight absolute radiometric calibration of the thematic mapper
[E84-10064] 06 p0865 N84-15633
Radiative-dynamic properties of Arctic stratus clouds and their possible modification by aerosol particles
[DFVLR-FB-83-23] 06 p0882 N84-15740
LANDSAT-D investigations in snow hydrology
[E84-10074] 07 p1021 N84-16621
Videopolarimetry of water surfaces
[BMFT-FB-W-83-020] 07 p1075 N84-16990
Analysis of longwave radiation for the Earth-atmosphere system
[NASA-CR-173155] 08 p1143 N84-17437
A laboratory investigation of the reflective properties of simulated, optically thick clouds
[NASA-CR-175362] 08 p1190 N84-17755
Radiative collisional laser feasibility demonstration
[AD-A135793] 09 p1322 N84-18640
The 433 Eros and 624 Hektor. A physical model for two highly elongated asteroids 09 p1414 N84-19250
Fundamental approaches for determining the radiation budget (and corresponding activities at Meteorologiches Institut, Munich (MIM) and Institut fuer Physik der Atmosphaere (IPA)) 10 p1535 N84-20053
A laboratory investigation of the reflective properties of simulated, optically thick clouds
[NASA-CR-175158] 10 p1578 N84-20336
Ocean fluxes simulated by the GLAS GCM
12 p1855 N84-22085
Spectroradiometric calibration of the Thematic Mapper and multispectral scanner system
[E84-10098] 13 p2004 N84-23000
Sensor radiance for a midlatitude atmospheric model
13 p2004 N84-23001
In-flight absolute radiometric calibration of the Thematic Mapper — White Sands, New Mexico
13 p2004 N84-23002
Optical bistability in four-level nonradiative dyes
14 p2237 N84-24425
Evaluation of multi-dimensional flux models for radiative transfer in combustion chambers: A review
15 p2293 N84-24760
On the breakdown of acceleration waves in radiative magneto-fluids 15 p2402 N84-25415
Radiative transfer in Roche coordinates
15 p2421 N84-25544
Analysis of MgII lines in algol
15 p2422 N84-25547
Numerical radiative transfer in Be disks
16 p2577 N84-26538
Asymptotic formulas for distribution moments in solution of radiation transfer equation in stochastic medium
17 p2706 N84-27243
Global radiation from satellite measurements
[MITT-37] 18 p2867 N84-28200
LANDSAT-D investigations in snow hydrology
[E84-10156] 19 p3039 N84-29277
A radiative transfer model for remote sensing of laser induced fluorescence of phytoplankton in non-homogeneous turbid water
[NASA-CR-173777] 19 p3063 N84-29432
Evaluation of the radiometric integrity of LANDSAT-4 Thematic Mapper band 6 data 20 p3207 N84-30375
Earth Observing System, introduction
20 p3219 N84-30451
Accuracy of one approximate method for computing radiative fluxes in presence of broken clouds
20 p3225 N84-30491
Small-angle method in study of single and multiple scattering 20 p3225 N84-30492
The Earth's radiation belts
[AD-A142673] 20 p3241 N84-30574
Hypersonic three-dimensional flow of radiating gas around wing 21 p3481 N84-32062
Wave propagation in dense geophysical media
[AD-A143213] 22 p3623 N84-32955
Atmosphere temperature profile recovery using partial interferometry
[AD-A144196] 24 p3919 N84-34810
A statistical evaluation and comparison of VISSR Atmospheric Sounder (VAS) data
24 p3932 N84-34892
VAS sounding data evaluation
24 p3933 N84-34893

Evaluation and development of new VAS remote sensing algorithms 24 p3933 N84-34894

RADIATORS
Advanced concepts theory
[AD-A141588] 19 p3107 N84-29741
Wideband microstrip ring radiator
[AD-P003507] 21 p3384 N84-31475

RADICALS
NT FREE RADICALS
NT HYDROXYL RADICALS
EPR spectroscopy of thermally initiated free radicals in RDX
[AD-A133976] 05 p0646 N84-14251
Study of nitration and oxidation in oxynitrogen systems
[AD-A132742] 05 p0650 N84-14271
Elementary reactions of NH2 radicals in the gas, phase 3
[MPIS-2/1983] 05 p0652 N84-14285
Intracavity laser excitation of NCO fluorescence in an atmospheric pressure flame
[AD-A134740] 06 p1164 N84-17579
Detection methods for atoms and radicals in the gas phase
[MPIS-1/1983] 10 p1577 N84-20334
Quantum chemical study of methane oxidation species
[NASA-CR-173819] 19 p2967 N84-28928
Investigation of laser induced radical reactions using time resolved infrared and coherent anti-Stokes Raman scattering (CARS) spectroscopy
[MPIS-17/1983] 20 p3151 N84-30008
Multiphoton ionization spectroscopy and photochemistry of transient species
[DE84-010424] 20 p3295 N84-30922
Laser Induced Chemistry. 1984 JPM Specialist Session
[AD-A142822] 21 p3372 N84-31400
Disappearance rates of C2(a 3 Pi u) and C2(X 1 Sigma g +) with O2 over the temperature range 296-1300 deg K 21 p3373 N84-31405
Investigation of reactions of the methylene radical by means of a far infrared-laser magnetic resonance (FIR-LMR) spectrometer
[MPIS-4/1984] 24 p3681 N84-34588

RADII
NT LARMOR RADIUS
Effective Earth radius for refraction of radio waves at altitudes above 1 km
[AD-A137095] 10 p1482 N84-19683
New algorithms for near neighbor searching
[AD-A142404] 20 p3280 N84-30824
Mie scattering as a technique for the sizing of air bubbles
[AD-A142737] 21 p3496 N84-32170

RADIO ALTIMETERS
A position paper: Mesoscale oceanography from GEOSAT
[AD-A132292] 04 p0569 N84-13749
Chirp signal generator feasibility study — ERS-1 altimeter
[TH-CSF-DASM-83/001/106] 07 p0999 N84-16482
Validation of SEASAT-1 altimetry using ground truth in the North Sea region
[SER-B-263-MITT-166] 08 p1179 N84-17681
A study of satellite radar altimeter operation over ice-covered surfaces
[ESA-CR(P)-1810] 08 p1179 N84-17683
Synthesis of devices for optimum processing of signals in low-altitude radio altimeter 17 p2630 N84-26826
Some case studies of ocean wave physical processes utilizing the GSFC airborne radar ocean wave spectrometer 17 p2715 N84-27283
Altimeter height measurement errors introduced by the presence of variable cloud and rain attenuation 17 p2716 N84-27289
Improved resolution rain measurements from spaceborne radar altimeters 17 p2716 N84-27290
The satellite altimeter as a platform for observation of the oceanic mesoscale 17 p2718 N84-27299
The evolutionary trend in airborne and satellite radar altimeters 17 p2718 N84-27300
Somali current studied from SEASAT altimetry 17 p2719 N84-27307
Satellite remote sensing over ice 17 p2719 N84-27308
Radar altimetry over sea ice 17 p2719 N84-27309
Observations of sea ice and icebergs from satellite radar altimeters 17 p2720 N84-27311
Simulation and assimilation of satellite altimeter data at the oceanic mesoscale 17 p2720 N84-27312
GEOSAT Ocean Applications Program (GOAP) initial data processing and analysis system test and evaluation plan
[AD-A141673] 19 p3062 N84-29426
Geophysical use of the data of the ERS-1 altimeter 23 p3776 N84-33943
On the hydrodynamic corrections of SEASAT-ALT data and geodynamic application 23 p3777 N84-33945
Calibration of precise satellite altimetry for the ionosphere and wet troposphere — TOPEX 23 p3778 N84-33955
The Navy Geosat mission radar altimeter satellite program 23 p3782 N84-33982

RADIO ANTENNAS
NT MICROWAVE ANTENNAS
Aerials for use in television outside broadcasts
[BBC-RD-1983/12] 05 p0665 N84-14373
Tactical high frequency array antennas
[AD-D011095] 22 p3587 N84-32717
In-flight accuracy and coverage tests of ESM- and ECM-systems 24 p3849 N84-34412

RADIO ASTRONOMY
Proceedings of the STIP (Study of Travelling Interplanetary Phenomena) Symposium on Solar Radio Astronomy, Interplanetary Scintillations and Coordination with Spacecraft
[AD-A130687] 01 p0165 N84-11087
Microwave studies of hot intracluster gas 02 p0306 N84-12011
A search for radio pulsars in the Northern sky: Discovery of a pulsar in a unique binary system 03 p0462 N84-13040
A very large array 1411 MHz radio survey: Properties of complete samples of radio and optically selected QSO candidates in a high galactic-latitude field 04 p0618 N84-14076
Very Large Array observations of solar active regions. 4: Structure and evolution of radio bursts from 20 cm loops
[AD-A133907] 06 p0940 N84-16109
The October 1983 recurrence of the outburst of the Orion water maser source and its past history
[INPE-2985-PRE/444] 07 p1088 N84-17076
Research Laboratory of Electronics
[AD-A135319] 08 p1150 N84-17488
Computer programs for continuum measurements at the Metsaehovi Radio Research Station
[REPT-S-130] 09 p1370 N84-18943
Proceedings of the 16th Finnish Astronomers' Days — conferences
[REPT-S-129] 09 p1413 N84-19241
Millimeter radio astronomy at Onsala (Sweden) 09 p1413 N84-19242
Observations of variable millimeter wave radio sources at Metsaehovi 09 p1413 N84-19245
Solar rotation rate determined from millimeter data 09 p1413 N84-19247
Measurements of the solar 160 min oscillation at the Metsaehovi radio research station in 1980-1982 and comparison with the results at the Crimean Astrophysical Observatory
[REPT-S-138] 09 p1416 N84-19268
Bright, rapid, highly polarized radio spikes from the M dwarf AD Leo
[AD-A136205] 09 p1418 N84-19275
Extragalactic radio sources: Rapid variability at 90 GHz
[AD-A136533] 10 p1595 N84-20451
SETI science working group report
[NASA-TP-2244] 12 p1869 N84-22178
Correcting radio astronomy interferometry observations for ionospheric refraction 15 p2324 N84-24957
Arcsecond positions for milliarcsecond VLBI nuclei of extragalactic radio sources, part 2: 207 sources 16 p2478 N84-25890
Submilliarcsecond VLBI observations of the close pair GC 1342+662 and GC 1342+663 16 p2478 N84-25891
Brazil national report on radio astronomy (1981 - 1984)
[INPE-3052-PRE/473] 16 p2573 N84-26516
Determination of nebular temperature and density from radio recombination lines 16 p2578 N84-26541
Phase light range finder 21 p3380 N84-31447
Radio astronomy 22 p3683 N84-33349
Radio science 23 p3842 N84-34373

RADIO ATTENUATION
Two types of errors made in prediction wave attenuation by rain 15 p2322 N84-24945
Signal power during radioacoustic sounding of turbulent atmosphere 16 p2864 N84-28186

RADIO ATTENUATION MEASUREMENT PROJECT
Low power radiation hard GaAs RAM
[AD-A139930] 15 p2329 N84-24986

RADIO AURORAS
HF omnidirectional spectral CW auroral radar (HF-OSCAR) at very high latitude. Part 1: Technique [DMI-GEOPHYS-PAPERS-R-67] 19 p3010 N84-29079

RADIO BEACONS
Technology and the future evolution of the ATC system 03 p0329 N84-12148
Test and evaluation of the Satellite-Aided Maritime Search and Rescue System (SAMSARS). Volume 1: System description and test results
[PB84-184621] 22 p3540 N84-32412
Test and evaluation of the Satellite-Aided Maritime Search and Rescue System (SAMSARS). Volume 2: Hardware circuitry and software programs
[PB84-184639] 22 p3540 N84-32413

RADIO BROADCASTING
U BROADCASTING

RADIO BURSTS
NT SOLAR RADIO BURSTS
Velocity profiles of interplanetary shocks 03 p0474 N84-13122
Characteristics of gamma-ray line flares
[NASA-CR-174606] 04 p0621 N84-14098
Voyager observations of Jovian millisecond radio bursts
[NASA-TM-86052] 07 p1093 N84-17109
Quenchings and outbursts of extragalactic radio sources: Nine years of 3.3-mm measurements and comparisons with centimeter-wave variations
[AD-A138233] 13 p2092 N84-23550
An X-ray survey of variable radio bright quasars
[NASA-TM-86094] 14 p2250 N84-24512
183 GHz water line variation: An energetic outburst in orion KL
[NASA-TM-85956] 16 p2574 N84-26522
Solar-geophysical data comprehensive reports, February 1984, number 474. Part 2: Data for August 1983, April 1981 and miscellanea. Explanation of data reports issued as number 474 (supplement) February 1984
[PB84-186671] 20 p3320 N84-31077

RADIO COMMUNICATION
NT CODE DIVISION MULTIPLE ACCESS
NT RADIO RELAY SYSTEMS
NT RADIO TELEMETRY
NT TELEPHONY
NT TIME DIVISION MULTIPLE ACCESS
Mobile radio alternative systems study. Volume 1: Traffic model
[NASA-CR-168062] 01 p0061 N84-10402
Mobile radio alternative systems study. Volume 2: Terrestrial — rural areas
[NASA-CR-168063] 01 p0061 N84-10403
Mobile radio alternative systems study satellite/terrestrial (hybrid) systems concepts
[NASA-CR-168064] 01 p0061 N84-10404
An estimate of HF/VHF surface-wave communication link reaches in the West German forest environment
[AD-A131262] 01 p0067 N84-10441
Empirical study of HF air to ground communications at the Research Facilities Center based on radio logs, 1973 - 1982
[PB83-222568] 01 p0068 N84-10447
Objectivization of evaluation of speech intelligibility during flights 02 p0261 N84-11713
Weather data communication and utilization 03 p0313 N84-12045
Maintenance communications for the 1990's
[AD-A133978] 05 p0666 N84-14383
Activities report in communications research performed in cooperation with Higher Institute for Posts and Telegraph (ISPT) 06 p0826 N84-15384
Broadband base isolated asymmetrically fed VHF antenna 06 p0827 N84-15393
Implementing new technology in the land mobile radio services
[PB84-101501] 08 p1148 N84-17472
Amplitude Compandored Sideband compared to conventional frequency modulation for VHF mobile radio: Laboratory and field testing results
[PB84-116383] 08 p1148 N84-17474
Space Station needs, attributes and architectural options. Volume 2, book 2, part 3: Communication system
[NASA-CR-173318] 09 p1271 N84-18302
SETI investigations at Jodrell Bank, England: September through November 1983 10 p1478 N84-19639
Rural land mobile radio market assessment and satellite and terrestrial system concepts
[NASA-TM-83591] 10 p1476 N84-19641
Land mobile radio services: Acts of the 2nd Convention — conferences
[FUB-7-1983] 10 p1476 N84-19642
Field strength predictions using a computer and a terrain data base — terrestrial mobile radio systems 10 p1476 N84-19643
Field strength prediction with a topographical data base: Experience gained in the Federal Republic of Germany — terrestrial mobile radio systems 10 p1476 N84-19644
Frequency management in the United Kingdom for private mobile radio systems 10 p1476 N84-19645

Geographic operators for management of a data base for frequency planning — geographic data base for radio mobile systems 10 p1476 N84-19646
Computerized simulation of multipath fading for mobile radio systems 10 p1477 N84-19647
Improving frequency utilization efficiency in time and space with isofrequency multiple access networks in private systems of cellular type — mobile radio systems 10 p1477 N84-19648
Evolution of public land mobile telephone systems in Europe 10 p1477 N84-19649
Development prospects for land mobile radio systems in Italy 10 p1477 N84-19650
Development of the public mobile radio services in Italy 10 p1477 N84-19651
The mobile radio service in the integrated network — AXE 10 commutation system 10 p1477 N84-19652
The RIAM project — mobile radio systems; Italy; power transmission networks 10 p1477 N84-19653
Multiple access mobile radio systems for private networks 10 p1477 N84-19654
Data transmission at 1200 Baud in mobile or fixed radio links with interchannel interferences 10 p1478 N84-19655
Design of receiver transmitters for use in multiple access networks 10 p1478 N84-19656
Experimental measurements of traffic and radio disturbances in Ente Nazionale per l'Energia Elettrica's (ENEL) mobile radio networks — Italy 10 p1478 N84-19657
Experimental evaluation of the interference of a frequency hopping signal on a television signal — mobile radio systems 10 p1478 N84-19659
Data communications in the mobile radio channel [EUT-83-E-142] 10 p1484 N84-19700
Interference measurements on amplitude compandored single sideband (ACSB) land mobil radio [PB84-123645] 10 p1484 N84-19702
Addressee errors in ATC communications: The call sign problem [NASA-CR-166462] 11 p1603 N84-20501
Low noise microwave frequency synthesizers [INPE-2796-PRE/358] 11 p1642 N84-20733
Design and characteristics of radiating pair cable 11 p1720 N84-21217
Jam-resistant tactical communications 13 p1976 N84-22828
Marshall Amateur Club experiment (MARCE) 18 p2800 N84-27767
Adaptive techniques for troposcatter [AD-A142226] 19 p3008 N84-29066
An experimental investigation of the improvement in the reception of TM (Transverse Magnetic)-polarized LF (Low-Frequency) waves with a two-element spaced array [AD-A142478] 20 p3175 N84-30159
Evolution of structure in the PLACES barium clouds [DE84-010996] 20 p3242 N84-30583
Millimeter wave communications [AD-A144636] 24 p3895 N84-34689
Joint services electronics program [AD-A144445] 24 p3898 N84-34685

RADIO DIRECTION FINDERS
Crash Position Indicator/Crash Survival Flight Data Recorder (CPI/CSFDR): Ejectable versus nonejectable 17 p2587 N84-26584

RADIO EMISSION
NT CN EMISSION
NT HYDROXYL EMISSION
NT RADIO BURSTS
NT SOLAR RADIO BURSTS
NT SOLAR RADIO EMISSION
Radio emission from solar and stellar coronae 02 p0306 N84-12023
On the utilization of ionospheric diagnostics in the single-site location of HF emitters 06 p0870 N84-15661
Characteristics of RF lightning emission at 2 GHz and 250 MHz 06 p0929 N84-16039
Bright, rapid, highly polarized radio spikes from the M dwarf AD Leo [AD-A136205] 09 p1418 N84-19275
An X-ray survey of variable radio bright quasars [NASA-TM-86094] 14 p2250 N84-24512
W3 North: Far-infrared and radio molecular observations [NASA-TM-85961] 17 p2774 N84-27615
Nonlinear temporal modulation of pulsar radioemission [INPE-3272-PRE/597] 24 p3995 N84-35282

RADIO EQUIPMENT
NT IONOSONDES
NT RADIO ANTENNAS
NT RADIO BEACONS
NT RADIO FILTERS
NT RADIO RECEIVERS
NT RADIO TELESCOPES
NT RADIO TRANSMITTERS
NT RADIOSONDES
NT RADIOTELEPHONES
NT RAWINSONDES
NT RECEPTION DIVERSITY
NT SPACECRAFT ANTENNAS
NT TRANSMITTER RECEIVERS
NT TRANSPONDERS
NT VERY HIGH FREQUENCY RADIO EQUIPMENT
Influence of the airframe on the performance of antennas for avionics 03 p0384 N84-12372
Maintenance communications for the 1990's [AD-A133978] 05 p0666 N84-14383
Design and manufacturing technology of radioelectronic equipment, chapter 5 [AD-A136509] 09 p1307 N84-18545
Interface control document for RT-XXXX/ARC-164 UHF-AM radio [AD-A136970] 10 p1481 N84-19681
Minimum operational performance standards for airborne radio communications equipment operating within the radio frequency range 117.975 - 137.000 MGz [RTCA/DO-186] 11 p1642 N84-20734
The CARFAX road traffic information system [BBC-RD-1984/1] 13 p1975 N84-22818
A practical terrestrial packet radio network [AD-A139162] 14 p2140 N84-23829
Effect of bandwidth and interference rejection on the spectrum efficiency of land mobile radio systems [PB84-158369] 17 p2654 N84-26978
Performance of telecommunications systems in a random probabilistic environment. Task 2: Single source interference with random parameters [PB84-158534] 17 p2655 N84-26981
A bibliography of packet radio literature [AD-A141299] 18 p2830 N84-27964
C3I system modification and EMC (electromagnetic compatibility) methodology, volume 1 [AD-A141420] 19 p3004 N84-29041
Action of penetrating radiation on radio parts [AD-A142107] 19 p3007 N84-29059
Ionizing emissions and electronics [AD-A142065] 21 p3383 N84-31466
Throughput for packet radio networks with dynamic power levels [AD-A144415] 24 p3895 N84-34664

RADIO FILTERS
Realization of high-frequency filters according to theory of guided spherical waves 21 p3378 N84-31438

RADIO FREQUENCIES
NT C BAND
NT EXTREMELY HIGH FREQUENCIES
NT EXTREMELY LOW RADIO FREQUENCIES
NT HIGH FREQUENCIES
NT LOW FREQUENCIES
NT MICROWAVE FREQUENCIES
NT SUPERHIGH FREQUENCIES
NT ULTRAHIGH FREQUENCIES
NT VERY HIGH FREQUENCIES
NT VERY LOW FREQUENCIES
A 500-watt solid-state RF power amplifier AM-7209( )/VRC [AD-A129327] 01 p0071 N84-10463
Radiofrequency radiation exposure for bio-effects research at the Health Effects Research Laboratory, Research Triangle Park, North Carolina [PB83-229591] 01 p0115 N84-10747
Effects of vane-tip geometry on the electric fields in radio-frequency quadrupole linacs [DE83-013214] 01 p0143 N84-10937
Radio-frequency detonation hazards: Multiple-transmission safety assessment of a detonator loop that may be resonant [BBC-RD-1983/11] 05 p0666 N84-14380
RF systems in space. Volume 2: Space-based radar analyses [AD-A133735] 05 p0668 N84-14394
RF systems in space. Volume 1: Space antennas frequency (SARF) simulation [AD-A133734] 05 p0668 N84-14395
Biological effects of radiofrequency radiation: Review draft, parts 1, 2 and 3 [PB83-262550] 05 p0714 N84-14680
White Horse program review, FY 82 [DE84-002290] 05 p0745 N84-14896
Effects of long-term low-level radiofrequency radiation exposure on rats. Volume 1: Design, facilities, and procedures [AD-A134079] 06 p0885 N84-15756
Radar activities of the DFVLR Institute for Radio Frequency Technology 07 p0990 N84-16418
High stability buffered phase comparator [NASA-CASE-GSC-12845-1] 07 p0996 N84-16454
Effect of radiofrequency radiation on DNA duplex stability and replication [AD-A133526] 07 p1042 N84-16759
Review of radio-frequency, nonlinear effects on the ionosphere [DE84-003832] 08 p1188 N84-17739
Biological Effects of Nonionizing Electromagnetic Radiation, volume 7, number 2-4, July - December 1982 [AD-A134674] 08 p1197 N84-17805
Preliminary tests of a second harmonic RF system for the intense pulsed neutron source synchrotron [DE84-003595] 08 p1230 N84-18041
Effects of long-term low-level radiofrequency radiation exposure on rats. Volume 2: Average SAR and SAR distribution in man exposed to 450-MHz RFR [AD-A135455] 09 p1361 N84-18891
Enhanced radio frequency carrier margin improvements for an array of receiving systems with unequal predetection signal-to-noise ratios 10 p1475 N84-19637
Radiofrequency radiation effects on excitable tissues [AD-A137772] 11 p1695 N84-21056
Correlations between plasma variables and the deposition process of Si films from chlorosilanes in low pressure RF plasma of argon and hydrogen [NASA-TM-83603] 11 p1737 N84-21330
Operational evaluation of a new 435-mHz radiation facility [AD-A138474] 12 p1773 N84-21564
The influence of ground conductivity on the structure of RF radiation from return strokes [NASA-TM-86065] 12 p1860 N84-22117
Effects of long-term low-level radiofrequency radiation exposure on rats. Volume 4: Open-field behavior and corticosterone [AD-A137743] 12 p1863 N84-22141
RF properties of superconducting A-15 compounds [AD-A139067] 13 p2047 N84-23285
Study of variability in extragalactic radio sources at 22 GHz and 44 GHz [INPE-2913-TDL/149] 13 p2092 N84-23549
Effects of long-term low-level radiofrequency radiation exposure on rats. Volume 5: Evaluation of the immune system's response [AD-A138535] 14 p2184 N84-24087
USAFSAM (USAF School of Aerospace Medicine) review and analysis of radiofrequency radiation bioeffects literature [AD-A140023] 15 p2379 N84-25280
Investigation of the RF properties of carbon fibre composite materials [AD-A140261] 16 p2461 N84-25774
Synthesis of frequency spectra based on use of multilevel pulse sequences 17 p2634 N84-26848
Oversight of the Unispace and International Telecommunications Union conference [GPO-28-104] 18 p2828 N84-27953
Field-aligned electron density irregularities near 500 km. Equator to polar cap topside sounder Z mode observations [NASA-TM-86091] 18 p2879 N84-28277
C3I system modification and EMC (electromagnetic compatibility) methodology, volume 1 [AD-A141420] 19 p3004 N84-29041
Calculation of the performance of an RF excited transverse flow CO2 laser [ESA-TT-832] 19 p3030 N84-29221
RF sputtering and annealing of amorphous zinc telluride films [USIP-84-04] 20 p3159 N84-30081
Inventory RF radiation levels in the Netherlands, part 1 [LEOK-TR-1984-02-PT-1] 20 p3175 N84-30167
Instrumentation for nonionizing radiation measurement [PB84-180603] 20 p3191 N84-30271
RFQ radial matching sections and fringe fields [DE84-011408] 20 p3295 N84-30920
Theoretical studies of Elmo Bumpy Torus (EBT) [DE84-010814] 20 p3303 N84-30978
High-gradient, pulsed operation of superconducting niobium cavities [DE84-012498] 20 p3311 N84-31030
RF design and performance of a multibeam, multiband antenna [AD-P003512] 21 p3385 N84-31480
USAFSAM (USAF School of Aerospace Medicine) review and analysis of radiofrequency radiation bioeffects literature [AD-A142961] 21 p3453 N84-31912
Effects of radiofrequency radiation on differentiation of erythroleukemic cells [AD-A143038] 21 p3453 N84-31914
Design fabrication and testing of the BNL radio frequency quadrupole accelerator [DE84-011915] 21 p3494 N84-32145
A high-performance hybrid RF isolation amplifier 22 p3572 N84-32623
The 64-m antenna automatic subreflector focusing controller 22 p3573 N84-32628

Radio frequency distribution assembly
[AD-A143575] 22 p3577 N84-32658
INTERMD: A computer program to predict intermodulation product generation on two-way FM radio frequencies
[DE84-013767] 22 p3578 N84-32661
High-power RF compressor
[DE84-013118] 22 p3578 N84-32664
Studies of the electric field distribution in biological bodies: Experimental dosimetry at radio frequencies
[AD-A143507] 22 p3628 N84-32992
Measurement of specific absorption rate in human phantoms exposed to simulated Air Force radar emissions
[AD-A143570] 22 p3631 N84-33007
Radio frequency distribution assembly, operations and maintenance manual
[AD-A143864] 23 p3731 N84-33649

RADIO FREQUENCY DISCHARGE
Characteristics of RF lightning emission at 2 GHz and 250 MHz 06 p0929 N84-16039
Microwave discharge in a supersonic flow for the excitation of a gas dynamic CO laser
[DFVLR-FB-83-21] 07 p1011 N84-16558
Status and future application of the RF-propulsion systems RITA including interplanetary missions
[MBB-UR-646-83-O] 16 p2583 N84-26444

RADIO FREQUENCY HEATING
Electron-cyclotron-heating experiments in Tokamaks and stellarators
[DE83-017210] 03 p0450 N84-12958
Study of parametric instabilities during the Alcator C lower hybrid wave heating experiments
[DE84-002809] 07 p1077 N84-17000
Proceedings of the Advanced Bumpy Torus Concepts Workshop
[DE84-002406] 09 p1392 N84-19091
Effect of lower hybrid wave heating on alpha-particle dynamics
[IPPJ-649] 10 p1580 N84-20351
ICRF heating experiments on JIPP T-II
[IPPJ-650] 10 p1580 N84-20352
Buildup and sustainment of 10(13) and cm(-3) plasma by ICRF in RFC-XX
[IPPJ-653] 10 p1580 N84-20356
Conceptual design of the RFC reactor
[IPPJ-659] 11 p1733 N84-21304
Ion Bernstein wave heating experiment on JIPPT-II-U device
[IPPJ-662] 11 p1734 N84-21305
Inductive current startup in large Tokamaks with expanding minor radius and RF assist
[DE84-006883] 12 p1911 N84-22450
Wave dynamics of regular and chaotic rays
[DE84-006061] 12 p1911 N84-22452
A rf-induced stability of mirrors with inverted pressure profiles
[DE84-007018] 13 p2045 N84-23273
Start-up and quasi-stationary drive of plasma current by lower hybrid wave in the JPII T-IIU Tokamak
[IPPJ-657] 15 p2409 N84-25461
Finite-element-analysis of fields radiated from ICRF antenna
[IPPJ-675] 20 p3301 N84-30985
Impurity origin during ICRF heating in JIPP T-IIU Tokamak
[IPPJ-662] 23 p3827 N84-34271

RADIO FREQUENCY IMPEDANCE PROBES
Project Porcupine: The MF mutual impedance probe experiment. Part 1: Flight F2 (March 1977)
[CRPE-NT-93-VOL-1] 05 p0705 N84-14824
Project Porcupine: The MF mutual impedance probe experiment. Part 2: Flights F3 and F4 (March 1979)
[CRPE-NT-94-VOL-2] 05 p0705 N84-14825

RADIO FREQUENCY INTERFERENCE
NT ATMOSPHERICS
NT CHIRP
NT CHIRP SIGNALS
NT COSMIC NOISE
NT ELECTROMAGNETIC NOISE
NT IONOSPHERIC NOISE
NT SHOT NOISE
NT THERMAL NOISE
NT WHISTLERS
NT WHITE NOISE
Selected aspects of radio interference from HVDC (High Voltage Direct Current) converter stations
[PB83-219675] 01 p0075 N84-10494
Research in adaptive beamforming for satellite communications
[AD-A133733] 05 p0868 N84-14396
Satellite broadcasting: Protection ratio requirements for enhanced transmissions using extended PAL vision and digital sound signals
[BBC-RD-1983/18] 07 p0986 N84-16386
Advanced adaptive antenna techniques
[AD-A134300] 07 p0993 N84-16434
Advanced adaptive antenna techniques
[AD-A134301] 07 p0993 N84-16435
Channel tracking errors and the adaptive multiple-beam antenna
[AD-A134598] 07 p0994 N84-16443
EMC (electromagnetic compatibility) modeling and analysis: A probabilistic approach
[AD-A135664] 09 p1301 N84-18505
Processing techniques for intelligibility improvement to speech with co-channel interference
[AD-A135702] 09 p1302 N84-18506
SETI investigations at Jodrell Bank, England: September through November 1983 10 p1476 N84-19639
Adaptive cancellation techniques
[AD-A136946] 10 p1481 N84-19680
Instrument landing system critical area studies
[AD-A138228] 12 p1768 N84-21530
New formulas for HED (Horizontal Electric Dipole), HMD (Horizontal Magnetic Dipole), VED (Vertical Electric Dipole), and VMD (Vertical Magnetic Dipole) subsurface-to-subsurface propagation
[AD-A139030] 13 p2033 N84-23187
A radio interference model for western Europe 15 p2325 N84-24963
Transhorizon microwave propagation measurements related to surface meteorological parameters 15 p2325 N84-24964
Effect of RF filtering on the performance of uncoded PCM/PM telemetry channels 16 p2480 N84-25901
Techniques for the analysis of spectral and orbital congestion in space systems
[AD-A140841] 17 p2614 N84-26734
Interpretation of radar returns from clear air: Discrimination against clutter 17 p2685 N84-27096
Discrimination against interfering signals at the Poker Flat MST radar 17 p2685 N84-27097
The influence of localized precipation-induced D-region ionization enhancements on subionospheric VLF progation 17 p2726 N84-27348
Interference problems for nongeostationary satellites
[NASA-CR-173717] 18 p2802 N84-27780
Spectrum/orbit utilization program for geostationary satellites
[NASA-TM-83759] 20 p3172 N84-30146
NETWORK: A user oriented, interactive, station-siting program for NOAA (National Oceanic and Atmospheric Administration) VHF weather radio
[PB84-202233] 21 p3466 N84-31978
Radio spectrum conservation technique — conferences
[FOA-C-30358-E2] 23 p3732 N84-33653

RADIO FREQUENCY NOISE
U ELECTROMAGNETIC NOISE

RADIO FREQUENCY RADIATION
U RADIO WAVES

RADIO GALAXIES
Optical flux and polarization spectra compared with radio maps of radio galaxies 06 p0938 N84-16093
Cosmology 10 p1594 N84-20447
Extragalactic radio sources: Rapid variability at 90 GHz
[AD-A136533] 10 p1595 N84-20451

RADIO INTERFERENCE
U RADIO FREQUENCY INTERFERENCE

RADIO INTERFEROMETERS
Test and demonstration of Macrometer (TM) model V-1000 interferometric surveyor
[PB83-239103] 03 p0402 N84-12631
The Telecommunications and Data Acquisition Report
[NASA-CR-174610] 04 p0518 N84-13401
The importance of radio interferometry for geodynamics 08 p1173 N84-17644
High-sensitivity correlation receiver for radio interferometry 18 p2823 N84-27924
Multipath induced errors in meteorological Doppler/interferometer location systems
[NASA-CR-175243] 18 p2844 N84-28058
Three-element radiointerferometer with very long baselines 19 p2974 N84-28853
Tropospheric delay effects in radio interferometry 22 p3574 N84-32636

RADIO NAVIGATION
NT DECCA NAVIGATION
NT LORAN
NT LORAN C
NT SHORAN
NT TACAN
NT VHF OMNIRANGE NAVIGATION
Activities report on air traffic control in the Federal Republic of Germany 09 p1253 N84-18182
Evaluation of radio navigation systems and their configuration with respect to minimum cost
[DFVLR-FB-83-32] 10 p1426 N84-19329
OMEGA global radionavigation: A guide for users
[PB84-134345] 10 p1427 N84-19331
The telecommunications and data acquisition report
[NASA-CR-173565] 16 p2478 N84-25689
Applications of the GPS (Global Positioning System) Geodetic Receiver System
[AD-A140567] 17 p2605 N84-26688
Satellite aided navigation (INNAVSAT)
[BMFT-FB-W-84-003] 19 p2962 N84-28772
Development, set up and testing of a measuring system for components of the Derived Azimuth System (DAS)
[BMFT-FB-W-84-005] 19 p2962 N84-28773
Investigation, development and application of optimal output feedback theory. Volume 2: Development of an optimal, limited state feedback outer-loop digital flight control system for 3-D terminal area operation
[NASA-CR-3829] 21 p3344 N84-31218
The Telecommunications and Data Acquisition Report
[NASA-CR-173885] 22 p3572 N84-32622

RADIO OBSERVATION
Aperture synthesis observations of star forming regions: Compact H2 regions and masers 06 p0937 N84-16092

RADIO PHYSICS
Radio emission from solar and stellar coronae 02 p0308 N84-12023

RADIO PROPAGATION
U RADIO TRANSMISSION

RADIO RANGES
U RADIO BEACONS

RADIO RECEIVERS
NT TRANSMITTER RECEIVERS
The 30 GHz communications satellite low noise receiver
[NASA-CR-168254] 04 p0517 N84-13398
Spectral line receiver for 80-90 GHz designed at the Helsinki University of Technology 09 p1413 N84-19243
Analysis of receivers provided with equalizers for digital radio links in the presence of multipath fading
[FUB-56-1982] 10 p1483 N84-19691
Performance evaluation of a Magnavox GPS (Global Positioning System) Z-set
[AD-A138569] 13 p1929 N84-22547
Applications of the GPS (Global Positioning System) Geodetic Receiver System
[AD-A140567] 17 p2605 N84-26688
Test results for 27.5- to 30-GHz communications satellite receivers
[NASA-TM-83662] 18 p2828 N84-27954

RADIO RECEPTION
Adaptive signal detection for the optimal communications receiver
[AD-A133498] 06 p0824 N84-15374
An experimental investigation of the improvement in the reception of TM (Transverse Magnetic)-polarized LF (Low-Frequency) waves with a two-element spaced array
[AD-A142478] 20 p3175 N84-30159
Concerning power recovered by receiving antenna from incident field 22 p3566 N84-32584

RADIO RELAY SYSTEMS
NT CODE DIVISION MULTIPLE ACCESS
NT TIME DIVISION MULTIPLE ACCESS
Aerials for use in television outside broadcasts
[BBC-RD-1983/12] 05 p0665 N84-14373
Satellite data relay and platform locating in oceanography. Report of the In Situ Ocean Science Working Group
[NASA-TM-85443] 12 p1860 N84-22116
Height profile of the field strength of reception by multipath propagation in the cm wave range
[FI-455-TBR-75] 19 p3010 N84-29081
Adaptive antennas for tropospheric radio relay lines 21 p3377 N84-31432

RADIO SCATTERING
Nonlinear scattering of radio waves by metal objects 21 p3478 N84-32049

RADIO SIGNAL ATTENUATION
U RADIO ATTENUATION

RADIO SIGNAL PROPAGATION
U RADIO TRANSMISSION

RADIO SIGNALS
Research in aeronomy
[NASA-CR-175370] 08 p1185 N84-17721
Meteor scatter communication in an air-ground environment
[AD-A135669] 09 p1301 N84-18506
Implementation of large antennas for deep space mission support 10 p1475 N84-19636
Specification of the transmitted signal of the OMEGA navigation system
[AD-A137673] 11 p1605 N84-20509
Concerning criteria for evaluation of amplitude-frequency characteristic of two-signal selectivity of radio reception channel 17 p2633 N84-26846

USSR report: Electronics and electrical engineering
[JPRS-UEE-84-006] 22 p3565 N84-32580
Tropospheric delay effects in radio interferometry 22 p3574 N84-32636

RADIO SOURCES (ASTRONOMY)
NT EXTRAGALACTIC RADIO SOURCES
NT PULSARS
NT QUASARS
NT RADIO GALAXIES
Documentation for the machine-readable version of the Fourth Cambridge Radio Survey Catalogue (4C) (Pilkington, Gower, Scott and Wills 1965, 1967)
[NASA-TM-85456] 02 p0305 N84-12002
Extraterrestrial radio noise and its effect on radar performance 06 p0670 N84-15662
Optical flux and polarization spectra compared with radio maps of radio galaxies 06 p0938 N84-16093
Observations of variable millimeter wave radio sources at Metsaehovi 09 p1413 N84-19245
A computer program for point-surface microwave continuum observation
[REPT-S-141] 15 p2320 N84-24925
183 GHz water line variation: An energetic outburst in orion KL
[NASA-TM-85956] 16 p2574 N84-26522
Extragalactic radio sources
[NASA-CR-173606] 16 p2582 N84-26557
Linear polarization and total flux density of silicon monoxide masers and active extragalactic objects at millimeter wavelengths 21 p3522 N84-32314

RADIO SPECTRA
NT MICROWAVE SPECTRA
Spectrophotometry of 2 complete samples of flat radio spectrum quasars
[NASA-CR-175343] 07 p1088 N84-17077
Synthesis of frequency spectra based on use of multilevel pulse sequences 17 p2634 N84-26848
Imagery and spectroscopy of supernova remnants and H-2 regions
[NASA-CR-171799] 19 p3121 N84-29841
Radio spectrum conservation technique — conferences
[FOA-C-30358-E2] 23 p3732 N84-33653
HII regions in the outer galaxy 23 p3838 N84-34345

RADIO SPECTROSCOPY
An absolute calibration method for electron cyclotron emission spectrometers
[REPT-83-149] 13 p1994 N84-22941

RADIO STARS
NT PULSARS

RADIO TELEMETRY
Preliminary data processing plan for the thermal plasma experiment on the HILAT satellite
[AD-A132017] 03 p0340 N84-12209
ISPM mission operations 09 p1263 N84-18244
Application of surface acoustic wave devices to radio telemetry
[NASA-CR-173597] 16 p2457 N84-25756
Analysis of housekeeping radiolinks satellite/ground station
[INPE-3097-NTE/217] 17 p2652 N84-26957
Vertebrate behavior and ecology
[DE84-007318] 20 p3257 N84-30673

RADIO TELESCOPES
Results of the Australian geodetic VLBI experiment 04 p0520 N84-13416
Millimeter radio astronomy at Onsala (Sweden) 09 p1413 N84-19242
Spectral line receiver for 80-90 GHz designed at the Helsinki University of Technology 09 p1413 N84-19243
Improved computer programs for microwave Sun observation at the Metsaehovi radio research station
[REPT-S-140] 09 p1417 N84-19269
Cryogenic 75-95 GHz front-end for the Metsaehovi radio telescope
[REPT-S-145] 15 p2424 N84-25564
Brazil national report on radio astronomy (1981 - 1984)
[INPE-3052-PRE/473] 16 p2573 N84-26516
Stable heterodyning system in RT-22 radio telescope for millimetric-wave spectroscopy 17 p2630 N84-26827
Phase light range finder 21 p3380 N84-31447

RADIO TRACKING
Multipath induced errors in meteorological Doppler/interferometer location systems
[NASA-CR-175243] 18 p2844 N84-28058

RADIO TRANSMISSION
NT IONOSPHERIC PROPAGATION
NT MICROWAVE ATTENUATION
NT MICROWAVE TRANSMISSION
NT MULTIPATH TRANSMISSION
NT SHORT WAVE RADIO TRANSMISSION
NT SINGLE SIDEBAND TRANSMISSION
NT SPREAD SPECTRUM TRANSMISSION
NT TRANSHORIZON RADIO PROPAGATION
UHF radiowave propagation through forests
[AD-A130399] 01 p0062 N84-10408
Estimates of millimeter wave attenuation for 18 United States cities
[PB83-240630] 02 p0211 N84-11381
Solar-Geophysical Data number 465, May 1983. Part 1: Prompt reports. Data for April and March 1983, and late data
[PB83-228544] 02 p0305 N84-12005
Radar meteorology in cloud physics and radio wave propagation research
[ESA-TT-808] 03 p0412 N84-12695
Propagation Factors Affecting Remote Sensing by Radio Waves
[AGARD-CP-345] 06 p0667 N84-15646
Determination of propagation limitations at HF by real-time update of a computer model from oblique sounder data 06 p0669 N84-15660
On the utilization of ionospheric diagnostics in the single-site location of HF emitters 06 p0670 N84-15661
The IF-77 electromagnetic wave propagation model
[AD-A134504] 07 p0993 N84-16441
The use of burst transmission to increase communication range: A feasibility study
[PB84-111400] 08 p1147 N84-17467
Rain attenuation at 11, 18, and 36 GHz
[FOA-C-20512-E2] 12 p1810 N84-21801
Air-to-ground HF (High Frequency) propagation prediction model for fast multicircuit computation
[PB84-145961] 12 p1810 N84-21802
An atmospheric millimeter wave propagation model
[AD-A139154] 14 p2176 N84-24033
Radomes for flight vehicles
[AD-A140174] 16 p2483 N84-25920
Marshall Amateur Club experiment (MARCE) 18 p2800 N84-27767
Project Explorer: Get Away Special #007 — alloy solidification, seed germination, crystal growth, and radio transmission of payload data 18 p2800 N84-27773
Assessing and displaying the effects of elevated trapping layers in support of Navy command and control
[AD-A142216] 19 p3008 N84-29065
Solar-geophysical data prompt reports, February 1984, number 474. Part 1: Data for January 1984, December 1983 and late data. Explanation of data reports issued as number 474 (supplement) February 1984
[PB84-188689] 20 p3320 N84-31076
Solar-geophysical data explanation of reports, February 1984, number 474, supplement
[PB84-188697] 20 p3320 N84-31078
Experimental evaluation of a high frequency radio data terminal in the ship-shore mode
[CRC-1375] 21 p3382 N84-31458
HF prediction using adiabatic invariant theory
[AD-A143239] 22 p3576 N84-32652
Solar-Geophysical Data, no. 475, March 1984. Part 1: Prompt reports. Data for September 1983, May 1981
[PB84-201508] 22 p3680 N84-33329

RADIO TRANSMITTERS
NT IONOSONDES
NT RADIO BEACONS
NT RADIOSONDES
NT RADIOTELEPHONES
NT RAWINSONDES
NT TRANSMITTER RECEIVERS
Techniques for locating a remote HF transmitter from single-site measurements
[AD-A132014] 03 p0360 N84-12342
Prediction of field strengths near HF transmitters
[AD-B078278] 15 p2319 N84-24917
Multipath outage performance of digital radio receivers using finite-tap adaptive equalizers 15 p2324 N84-24955
Low-frequency radio navigation system
[NASA-CASE-NPO-15264-1] 18 p2791 N84-27713

RADIO WAVE REFRACTION
Effective Earth radius for refraction of radio waves at altitudes above 1 km
[AD-A137095] 10 p1482 N84-19683
Characteristics of the Lower Atmosphere Influencing Radio Wave Propagation
[AGARD-CP-346] 15 p2322 N84-24943
Correcting radio astronomy interferometry observations for ionospheric refraction 15 p2324 N84-24957
Intensity of radiowave scattering on anisotropic irregularities with various positions of scattering volume about caustic zone 22 p3566 N84-32585

RADIO WAVES
NT CENTIMETER WAVES
NT CN EMISSION
NT DECAMETRIC WAVES
NT DECIMETER WAVES
NT GALACTIC RADIO WAVES
NT HYDROXYL EMISSION
NT IONOSPHERIC NOISE
NT LONG WAVE RADIATION
NT MICROWAVE EMISSION
NT MICROWAVES
NT MILLIMETER WAVES
NT RADIO BURSTS
NT RADIO EMISSION
NT SHORT WAVE RADIATION
NT SKY WAVES
NT SOLAR RADIO BURSTS
NT SOLAR RADIO EMISSION
NT SUBMILLIMETER WAVES
NT WHISTLERS
Coherent scattering of light into high frequency radiowaves
[AD-A130891] 01 p0066 N84-10431
Measured ionospheric Doppler spreading of HF ground backscatter
[PB83-220764] 01 p0068 N84-10446
Radio scintillations at large elongation angles: Contributions of waves versus discontinuities
[IFSI-82-4] 03 p0362 N84-12358
Propagation of a radio-frequency pulsed signal over the Earth. The JOLLY programs
[DE84-000109] 04 p0523 N84-13439
On the determination of the index of refraction of the atmosphere
[AD-A132107] 04 p0563 N84-13713
The temporal evolution of short scale striations in the heated ionosphere 05 p0706 N84-14831
Propagation Factors Affecting Remote Sensing by Radio Waves
[AGARD-CP-345] 06 p0667 N84-15646
Extraterrestrial radio noise and its effect on radar performance 06 p0670 N84-15662
Studies in RF emission and absorption in EBT plasmas
[DE84-002118] 07 p1076 N84-16996
Extragalactic radio sources: Rapid variability at 90 GHz
[AD-A136533] 10 p1595 N84-20451
HILAT: A pre-launch overview
[AD-A137266] 11 p1683 N84-20983
Design modifications on Venera-15, -16 12 p1775 N84-21579
The influence of ground conductivity on the structure of RF radiation from return strokes
[NASA-TM-86065] 12 p1860 N84-22117
Measurements of rain attenuation at 12 GHz with the BSE
[NHK-LN-292] 15 p2370 N84-25218
Trajectories of radio waves in linear layer with isometric inhomogeneities 17 p2631 N84-26833
Radiochannel with curved antenna utilizing three-dimensional excitation 17 p2632 N84-26836
The time-spatial structure of microwave radio fields on line-of-sight overwater paths
[REPT-220] 17 p2651 N84-26955
Performance of telecommunications systems in a random probabilistic environment. Task 1: Comparisons of spread-spectrum and conventional narrowband modulation methods
[PB84-158542] 17 p2655 N84-26979
The influence of localized precipation-induced D-region ionization enhancements on subionospheric VLF progation 17 p2726 N84-27348
Renormalization of seasonals in the additive seasonal model: Is it necessary?
[AD-A140799] 17 p2734 N84-27379
Spectrum of phase fluctuations during probing of ionosphere 18 p2822 N84-27916
Soliton collapse during ionospheric heating
[DE84-009994] 20 p3241 N84-30576
Rat behavior in selection of negative stimulus: Pain or exposure to electromagnetic field 20 p3255 N84-30657
RF-induced stability and transport in axisymmetric tandem mirrors
[DE84-010842] 20 p3306 N84-30999
Nonlinear scattering of radio waves by metal objects 21 p3478 N84-32049
Problems of diffraction and propagation of waves (selected articles)
[AD-A143912] 23 p3731 N84-33650

RADIOACTIVE AGE DETERMINATION
Radioactivities in returned lunar materials and in meteorites
[NASA-CR-175347] 07 p1090 N84-17089
Sm-Nd isotopic systematics of the ancient Gneiss complex, southern Africa 11 p1678 N84-20950
Geology and geochronology of the southeast border of the Bitterroot Dome: Implications for the structural evolution of the Mylonitic Carapace 13 p2014 N84-23065

RADIOACTIVE CONTAMINANTS
Code BETAL to calculation Alpha/Beta activities in environmental samples
[JEN-549] 04 p0578 N84-13816
The Centro Informazioni Studi Esperienze (CISE) activity in background radioactivity
[CISE-2070] 05 p0701 N84-14599
Sediment radioactivity in the stretch of the Po river from Monte Trino to Valle Caorso: Some results for the period 1978-82
[CISE-2071] 05 p0701 N84-14600
Radiac survey instrumentation
[AD-A140084] 15 p2337 N84-25029
RADIOACTIVE DATING
U RADIOACTIVE AGE DETERMINATION
RADIOACTIVE DECAY
NT NEUTRON EMISSION
W decay in supergravity GUTS
[DE83-015144] 02 p0291 N84-11911
Experiments on the nuclear interactions of pions
[DE83-016285] 03 p0434 N84-12844
Physics at the proposed National Underground Science Facility
[DE84-001345] 04 p0488 N84-13203
Detecting heavy quark jets 06 p0914 N84-15939
Considerations on the dimensioning of decay tanks for liquid radioactive wastes (basic methods and examples)
[OEFZS-4249] 18 p2931 N84-28586
Hypernuclear research at the AGS
[DE84-010262] 20 p3294 N84-30915
Calculation of molecular final states and their effect on a precision neutrino mass experiment
[DE84-011071] 20 p3295 N84-30921
RADIOACTIVE ELEMENTS
U RADIOACTIVE ISOTOPES
RADIOACTIVE ISOTOPES
NT AMERICIUM
NT AMERICIUM 241
NT ARSENIC ISOTOPES
NT BERYLLIUM 9
NT BERYLLIUM 10
NT CARBON 14
NT CESIUM 137
NT COBALT 60
NT IODINE 131
NT KRYPTON 85
NT PLUTONIUM
NT PLUTONIUM 238
NT TRITIUM
NT URANIUM 236
NT XENON 133
Experimental technique for handling and analysis of particles collected after nuclear explosions
[FOA-C-20503-A1] 05 p0746 N84-14899
Status of research in progress at the Inhalation Toxicology Research Institute
[DE83-012610] 06 p0875 N84-15694
Dose conversion factors for inhaled radionuclides
[FOA-C-40184-A3] 06 p0890 N84-15786
Study of the characteristics of high pressure proportional counters for the detection of radioactive gases
[AD-A135803] 09 p1280 N84-18356
Salton Sea Geothermal Field, California, as a near-field natural analog of a radioactive waste repository in salt
[DE84-003851] 09 p1346 N84-18794
Evaluation of arctic test of tritium radioluminescent lighting
[AD-A139176] 14 p2104 N84-23619
Periods found in heat measurements obtained by calorimetry
[DE84-007446] 14 p2220 N84-24321
Analytical capability of the environmental radiation ambient monitoring system
[PB84-166818] 16 p2520 N84-26177
Radionuclide counting technique for measuring wind velocity and direction
[NASA-CASE-LAR-12971-1] 18 p2883 N84-28292
Program PREGA pivotal regression analysis of gamma-ray spectra from NaI(T1) detectors for the ND6820 computer
[AD-A141539] 19 p3077 N84-29520
Power flattening techniques for radioisotopic thermoelectric generators
[AD-A142937] 21 p3391 N84-31520
Calibration and performance of a high-resolution gamma-spectroscopy system
[DE84-012792] 22 p3548 N84-32462
RADIOACTIVE MATERIALS
In-situ permeation tests of elastomeric O-ring seals
[DE83-015622] 03 p0356 N84-12318
Engineering hot-cell windows for radiation protection — for remote handling of radioactive materials
[DE83-014675] 03 p0356 N84-12319
PATRAM '83: 7th International Symposium on Packaging and Transportation of Radioactive Materials, summaries
[DE83-012390] 03 p0439 N84-12881
Laboratory robotics at the Savannah River Laboratory
[DE84-001760] 06 p0894 N84-15810
System 2000 to dBASE 2 and back again
[DE84-008031] 18 p2945 N84-28677
A guide for disposition of radioactive material sources
[DOE/EP-0088] 23 p3824 N84-34251
RADIOACTIVE NUCLIDES
U RADIOACTIVE ISOTOPES
RADIOACTIVE WASTES
Low-level radioactive waste disposal in the oceans
[DE83-013367] 01 p0145 N84-10956
Vitrification of highly-loaded SDS zeolites
[DE83-006198] 02 p0292 N84-11915
Characterization of borosilicate glass containing Savannah River Plant radioactive waste. 2: Microstructure and durability
[DE83-011246] 02 p0292 N84-11916
Multi-isotopic gamma ray assay system for alpha contaminated waste
[DE83-015254] 02 p0292 N84-11917
Research activities in materials and molecular research
[DE83-015005] 03 p0347 N84-12255
Mobility of organic complexes of nickel and cobalt in soils
[DE83-017897] 04 p0564 N84-13720
Geologic disposal of radioactive waste, 1983
[DE84-002890] 07 p1074 N84-16982
An explosive driven shock tube for verifying survival of radioisotope heat sources during space shuttle launch accident 10 p1509 N84-19876
Thermal diffusion in glass melts
[BMFT-FB-W-83-033] 12 p1802 N84-21751
Prevention of stress-corrosion cracking in nuclear waste storage tanks
[DE84-001410] 14 p2128 N84-23758
Measurement of small amounts of xenon-133 in air: Report on a series of measures and tests in Stockholm and in Ljungbyhed
[FOA-C-20515-A1] 15 p2366 N84-25197
Benthic boundary layer: IOS observational programme
[IOS-163] 15 p2372 N84-25232
Report on measurements of terrestrial radiation in the Schwandorf area and the radiological load of the river Naab
[GSF-A-6/83] 16 p2520 N84-26180
Monitored retrievable storage program. Status and plans for meeting NWPA requirements
[DE84-008680] 18 p2931 N84-28585
Considerations on the dimensioning of decay tanks for liquid radioactive wastes (basic methods and examples)
[OEFZS-4249] 18 p2931 N84-28586
Sedimentation studies relevant to low-level radioactive effluent dispersal in the Irish Sea. Part 3: An evaluation of possible mechanisms for the incorporation of radionuclides into marine sediments
[IOS-178] 19 p3062 N84-29431
Vegetation and climates of the last 45,000 years in the vicinity of the Nevada Test Site, south-central Nevada
[DE84-009032] 20 p3247 N84-30610
Role of trench caps in the shallow land burial of low level wastes
[DE84-011824] 20 p3296 N84-30944
Ambient temperature testing of the G-tunnel heated block
[DE84-000927] 20 p3296 N84-30945
A study of research needs and priorities in radioactive waste management
[DE84-009045] 20 p3298 N84-30946
King's Trough Flank: Geological and geophysical investigations of its suitability for high-level radioactive waste disposal
[IOS-166] 20 p3299 N84-30950
Microprocessor enhanced real time manual control of an industrial robot
[DE84-011805] 21 p3413 N84-31645
Geology hydrology and mineral resources of crystaline rock areas of Northeastern US
[DE84-013671] 21 p3432 N84-31774
Data base management system of the National Low-Level Radioactive Waste Management Program
[DE84-012789] 21 p3519 N84-32291
Mechanical seal program
[DE84-012421] 22 p3605 N84-32838
Geology, hydrology, and mineral resources of crystalline rock areas of the northeastern United States
[DE84-013672] 22 p3614 N84-32901
Interpretations of magnetic anomalies at a potential repository site located in the Yucca Mountain area, Nevada test site
[DE84-013723] 23 p3798 N84-34085
A guide for disposition of radioactive material sources
[DOE/EP-0088] 23 p3824 N84-34251
RADIOACTIVITY
Simplified methods for the inelastic analysis of stiffened shells
[DE83-016518] 02 p0232 N84-11525
Radioactive-ion-beam research at Livermore
[DE83-014872] 02 p0297 N84-11946
Radioactivites in returned lunar materials and in meteorites
[NASA-CR-171710] 02 p0308 N84-12018
Nuclear design of a very-low-activation fusion reactor
[DE83-017470] 03 p0448 N84-12949
Code BETAL to calculation Alpha/Beta activities in environmental samples
[JEN-549] 04 p0578 N84-13816
Observations of Radioactivity, no. 21, 1981
[ISBN-951-697-191-1] 07 p1027 N84-16853
Airborne fallout monitoring
[FOA-A-40045-A3] 08 p1183 N84-17705
Environmental Radiation Data Report 31, July - September 1982
[PB84-104801] 08 p1183 N84-17709
Environmental Radiation Data Report 32, October December 1982
[PB84-104793] 08 p1184 N84-17710
Test and evaluation of radioactively contaminated transducers and transmitters
[AD-P002676] 11 p1657 N84-20813
East Europe report: Scientific affairs
[JPRS-ESA-84-008] 14 p2174 N84-24020
Measurements concerning increase of atmospheric radiokrypton content 14 p2174 N84-24022
Trapped-proton energy spectrum determination (M0002-1) 15 p2276 N84-24663
Report on measurements of terrestrial radiation in the Schwandorf area and the radiological load of the river Naab
[GSF-A-6/83] 16 p2520 N84-26180
Surplus Facilities Management Program. Post-remedial-action survey report for SNAP-8 Experimental Reactor Facility, building 010 site, Santa Susana Field Laboratories, Rockwell International, Ventura County, California
[DE84-009591] 21 p3497 N84-32165
A guide for disposition of radioactive material sources
[DOE/EP-0088] 23 p3824 N84-34251
RADIOBIOLOGY
Eruption of permanent dentition in rhesus monkeys exposed to ELF (Extremely low frequency) fields
[AD-A132065] 03 p0413 N84-12703
Shielding part of bone marrow as a method of local protection against cosmic radiation 07 p1044 N84-16771
Free-flyer biostack experiment 15 p2277 N84-24674
Review of book on space radiobiology 15 p2378 N84-25270
USAFSAM (USAF School of Aerospace Medicine) review and analysis of radiofrequency radiation bioeffects literature
[AD-A140023] 15 p2379 N84-25280
Guidelines for running the thermal computational model of the eye
[AD-A142550] 20 p3260 N84-30688
USAFSAM (USAF School of Aerospace Medicine) review and analysis of radiofrequency radiation bioeffects literature
[AD-A142961] 21 p3453 N84-31912
Effects of insulin and hydrocortisone on energy metabolism in rats irradiated with fast, 60 MeV neutrons 22 p3630 N84-33002
A study of the interaction of millimeter wave fields with biological systems
[AD-A144150] 24 p3935 N84-34910
Bioelectromagnetics research in France: An assessment
[AD-A144305] 24 p3936 N84-34912
Visual function changes after laser exposure
[AD-A144210] 24 p3936 N84-34917
RADIOCHEMICAL SEPARATION
Obtaining iron-55 with high radiochemical purity
[CSIR-TRANS-1751] 22 p3553 N84-32494
RADIOCHEMISTRY
NT RADIOCHEMICAL SEPARATION
Manual of analytical methods for radiobioassay
[DE84-003978] 08 p1126 N84-17318
Obtaining iron-55 with high radiochemical purity
[CSIR-TRANS-1751] 22 p3553 N84-32494
RADIOFREQUENCY ION THRUSTOR ENGINES
U RIT ENGINES
RADIOGRAPHY
NT ANGIOGRAPHY
NT AUTORADIOGRAPHY
NT NEUTRON RADIOGRAPHY
NT TOMOGRAPHY

NDE techniques for composite laminates
01 p0033 N84-10205
Fourier-processed images of dynamic lung function from list-mode data
[DE83-013276] 01 p0114 N84-10741
Using an X-ray-sensitive vidicon and remote-control stage mechanism to obtain critical radiographic alignment of small explosive devices
[DE83-012846] 03 p0358 N84-12326
Variations in task and the ideal observer
[DE83-015394] 03 p0416 N84-12723
Survey of flash X-ray techniques and applications
[DE83-017234] 03 p0442 N84-12904
Los Alamos real-time and digital radiography plans
[DE84-004327] 10 p1482 N84-19685
Medical clip
[NASA-CASE-LAR-12650-1] 18 p2899 N84-28388
Process of making medical clip
[NASA-CASE-LAR-12650-2] 18 p2899 N84-28389
Edge blurring in stacked X-ray film screen combinations
[DE84-009658] 19 p3027 N84-29200
Optical density radiation dose relationship — radiography
[CETIM-100680] 21 p3497 N84-32162
Non-destructive evaluation techniques, high temperature ceramic component parts for gas turbines
[NASA-TM-77755] 23 p3694 N84-33413

RADIOISOTOPE BATTERIES
Space Nuclear-Safety Program
[DE83-016351] 02 p0186 N84-11211
Space nuclear safety program
[DE83-014070] 03 p0437 N84-12869
Space Nuclear Safety Program, March 1983
[DE84-002259] 07 p1074 N84-16981
Space nuclear safety program
[DE84-003558] 12 p1904 N84-22398
Space nuclear safety program
[DE84-006693] 12 p1904 N84-22399

RADIOLOGY
Nuclear-medicine
[DE84-000346] 04 p0571 N84-13759
Quaternary naltrexone reverses radiogenic and morphine-induced locomotor hyperactivity
[AD-P003252] 18 p2905 N84-28419

RADIOLYSIS
Formation of free hydrogen during radiolysis in a bed of clay
[DE83-017724] 03 p0350 N84-12275
Radiolysis of resist polymers. 1: Poly(methyl-alpha-haloacrylates) and copolymers with methylmethacrylate
[AD-A131864] 03 p0356 N84-12315
Radiolysis of resist polymers. 2: Poly(haloalkylmethacrylates) and copolymers with methylmethacrylate
[AD-A132095] 04 p0507 N84-13321
Use of pulse radiolysis to measure high temperature kinetics
[DE84-011702] 21 p3361 N84-31324

RADIOMETERS
NT DICKE RADIOMETERS
NT INFRARED DETECTORS
NT INFRARED RADIOMETERS
NT INFRARED SCANNERS
NT MICROWAVE RADIOMETERS
NT PASSIVE L-BAND RADIOMETERS
NT SPECTRORADIOMETERS
Work of Estonian Astrophysics and Atmospheric Physics Institute described
01 p0056 N84-10364
Project for improved performance of radiometric standard detectors (110-360 nm)
[PB83-224014] 01 p0085 N84-10556
Remote sensing applications of pulsed photothermal radiometry
[AD-A130154] 01 p0086 N84-10563
Journal of Research of the National Bureau of Standards. Volume 87, Number 6, November-December 1982
[PB83-226670] 01 p0160 N84-11056
Offset-reflector with horn feed array as an experimental sensor for radiometric measurements
[DFVLR-FB-83-16] 02 p0211 N84-11379
Development of a method and apparatus for quantitative assessment of the iron content of rocks and ores by means of data obtained from borehole radiometry
[BLL-M-28724-(5828.4)] 02 p0246 N84-11613
The HCMM system: Development and performance
05 p0696 N84-14570
Techniques for measuring radiance in the air and sea
06 p0871 N84-15672
A comparison of SMMR (Scanning Multichannel Microwave Radiometer) and airborne microwave measurements during GOASEX (Gulf of Alaska experiment)
[AD-A134514] 07 p1008 N84-16534
Estimation of planetary albedo and emission over the Tibetan plateau from AVHRR data
10 p1536 N84-20063
Comparison of AMSU temperature soundings with those produced by HIRS and AMTS
12 p1851 N84-22057
Water vapor profile retrieval simulation studies for the HIRS/MSU and AMTS/MSU sounders
12 p1851 N84-22058
Techniques of flash radiometry
[AD-A136412] 12 p1908 N84-22427
Method and apparatus for precision control of radiometer
[NASA-CASE-NPO-15398-1] 13 p1992 N84-22931
Exposure to space radiation of high-performance infrared multilayer filters and materials technology experiments (A0056)
15 p2277 N84-24678
Preliminary investigations concerning a 90 GHz radiometer satellite experiment
[DFVLR-FB-84-02] 15 p2280 N84-24693
2.0 GHz to 4.0 GHz automated radiometer operation and service manual
[PB84-165158] 17 p2672 N84-27031
Peculiarities in determining small contents of atmospheric moisture by surface radio thermal sounding methods
17 p2707 N84-27241
Special pyrheliometer shroud development
18 p2875 N84-28255
Microwave radiometric measurement of sea surface salinity
[AD-A141302] 18 p2893 N84-28359
Discrimination of iron alteration minerals in remote sensing data
21 p3425 N84-31727
Research in millimeter wave techniques
[NASA-CR-173964] 24 p3893 N84-34655
A study of multispectral model of land cover
24 p3955 N84-35042

RADIOMETRIC CORRECTION
LANDSAT 4 band 6 data evaluation
[E84-10012] 02 p0236 N84-11550
CCRS proposal for evaluating LANDSAT-D MSS and TM data
[E84-10026] 02 p0236 N84-11560
LANDSAT 4 band 6 data evaluation
[E84-10054] 05 p0697 N84-14574
Support for the Naval Research Laboratory Environmental Passive Microwave Remote Sensing Program
[AD-A133330] 06 p0847 N84-15526
Study of spectral/radiometric characteristics of the thomatic mapper for land use applications
[E84-10058] 07 p1020 N84-16615
An analysis of new techniqes for radiometric correction of LANDSAT-4 Thematic Mapper images — Terrebonne Bay, Louisiana and Grand Bahamas scenes
[E84-10086] 10 p1521 N84-19957
Revised radiometric calibration technique for LANDSAT-4 Thematic Mapper data by the Canada Centre for Remote Sensing
10 p1522 N84-19967
Revised radiometric calibration technique for LANDSAT-4 Thematic Mapper data
10 p1522 N84-19968
Radiometric calibration and geocoded precision processing of LANDSAT-4 MSS products
10 p1523 N84-19975
TM data available at EDC, and EDC TM data handling and processing plan
10 p1524 N84-19980
Heat Capacity Mapping Radiometer (HCMR) data processing algorithm, calibration, and flight performance evaluation
[E84-10153] 17 p2709 N84-27248
Evaluating LANDSAT-4 MSS and TM data
[E84-10157] 17 p2709 N84-27249
LANDSAT-4 Science Investigations Summary, including December 1983 Workshop results, volume 1
[E84-10166] 20 p3205 N84-30359
Radiometric calibration and processing procedure for reflective bands on LANDSAT-4 protoflight Thematic Mapper
20 p3206 N84-30366
Thematic Mapper Image Processing System (TIPS) processing status
20 p3206 N84-30368
Thematic Mapper image production in the engineering checkout phase
20 p3206 N84-30369
LANDSAT-4 radiometric and geometric correction and image enhancement results — San Francisco Bay, California
20 p3206 N84-30370
TM digital image products for applications
20 p3206 N84-30371
Thermal band characterization of LANDSAT-4 Thematic Mapper — Buffalo, New York and water temperature in Lake Erie
20 p3207 N84-30376
A preliminary assessment of LANDSAT-4 Thematic Mapper data
20 p3208 N84-30377
Revised radiometric calibration technique for LANDSAT-4 Thematic Mapper data by the Canada Centre for Remote Sensing
20 p3208 N84-30378
LANDSAT-4 Science Investigations Summary, including December 1983 Workshop results, volume 2
[E84-10167] 20 p3208 N84-30380
In-flight absolute radiometric calibration of the Thematic Mapper
20 p3208 N84-30383
Radiometric calibration and processing procedure for reflective bands on LANDSAT-4 protoflight Thematic Mapper
[E84-10056] 21 p3426 N84-31731
LANDSAT 4 band 6 data evaluation
[E84-10175] 21 p3427 N84-31737
TM digital image products for applications — computer compatible tapes
[E84-10178] 21 p3428 N84-31749
Relative radiometric calibration of LANDSAT TM reflective bands
[E84-10179] 21 p3428 N84-31750
SOFT-1: Imaging processing software
23 p3843 N84-34378

RADIOMETRIC RECTIFICATION
U RADIOMETRIC CORRECTION

RADIOMETRIC RESOLUTION
Investigation of radiometric properties of the LANDSAT-4 multispectral scanner
[E84-10013] 02 p0236 N84-11551
Evaluation of spatial, radiometric and spectral thematic mapper performance for coastal studies
[E84-10018] 02 p0237 N84-11555
LANDSAT 4 image data quality analysis
[E84-10036] 04 p0551 N84-13629
The use of linear feature detection to investigate thematic mapper data performance and processing
[E84-10037] 04 p0551 N84-13630
The use of thematic mapper data for land cover discrimination: Preliminary results from the UK SATMaP programme
[E84-10038] 04 p0551 N84-13631
Analysis of multispectral scanner (MSS) and Thematic Mapper (TM) performance (pre-launch and post-launch)
[E84-10043] 04 p0552 N84-13636
In-flight absolute radiometric calibration of the thematic mapper
[E84-10044] 04 p0552 N84-13637
Evaluation of radiometric and geometric characteristics of LANDSAT-D imaging system
[E84-10050] 04 p0553 N84-13643
LANDSAT-4 sensor performance
[E84-10053] 05 p0697 N84-14573
Thematic mapper radiomtric variability on ostensibly uniform agricultural scenes
[E84-10035] 06 p0864 N84-15626
Evaluation of spatial, radiometric and spectral Thematic Mapper performance for coastal studies
[E84-10093] 10 p1522 N84-19964
Demonstration of angular anisotropy in the output of Thematic Mapper
[E84-10095] 10 p1522 N84-19965
CCRS proposal for evaluating LANDSAT-4 MSS and TM data
[E84-10096] 10 p1522 N84-19966
Proceedings of the Fourth Meeting of the LANDSAT Technical Working Group (LTWG). Attachments
[IJB-PRO-0012] 10 p1523 N84-19971
Performance evaluation and geologic utility of LANDSAT-4 TM and MSS data
[E84-10099] 12 p1828 N84-21918
Observation model and parameter partials for the JPL VLBI parameter estimation software MASTERFIT-V1.0
[NASA-CR-173455] 12 p1879 N84-22245
Spectroradiometric calibration of the Thematic Mapper and multispectral scanner system
[E84-10098] 13 p2004 N84-23000
Sensor radiance for a midlatitude atmospheric model
13 p2004 N84-23001
In-flight absolute radiometric calibration of the Thematic Mapper — White Sands, New Mexico
13 p2004 N84-23002
LANDSAT 4 band 6 data evaluation
[E84-10119] 13 p2005 N84-23009
Proceedings of the Fourth Meeting of the LANDSAT Technical Working Group (LTWG), volume 1
[IJB-PRO-0012-VOL-1] 15 p2357 N84-25144
Spectroradiometric calibration of the Thematic Mapper and Multispectral Scanner system — White Sands, New Mexico
[E84-10136] 16 p2506 N84-26084
Heat Capacity Mapping Radiometer (HCMR) data processing algorithm, calibration, and flight performance evaluation
[E84-10153] 17 p2709 N84-27248
Pre-launch absolute radiometric calibration of LANDSAT-4 protoflight Thematic Mapper
20 p3207 N84-30373
Relative radiometric calibration of LANDSAT TM reflective bands — San Francisco, California
20 p3207 N84-30374

Evaluation of the radiometric integrity of LANDSAT-4 Thematic Mapper band 6 data 20 p3207 N84-30375
A preliminary analysis of LANDSAT-4 Thematic Mapper radiometric performance 20 p3208 N84-30379
LANDSAT-4 Science Investigations Summary, including December 1983 Workshop results, volume 2 [E84-10167] 20 p3208 N84-30380
Scan-angle and detector effects in Thematic Mapper radiometry 20 p3209 N84-30386
Thematic Mapper spectral dimensionality and data structure 20 p3209 N84-30387
MTF analysis of LANDSAT-4 Thematic Mapper 20 p3209 N84-30388
Intraband radiometric performance of the LANDSAT-4 Thematic Mapper 20 p3209 N84-30389
Analysis of LANDSAT-4 TM data for lithologic and image mapping purposes 20 p3209 N84-30390
The use of linear feature detection to investigate Thematic Mapper data performance and processing 20 p3210 N84-30393
Spatial resolution estimation of LANDSAT-4 TM data 20 p3210 N84-30394
Investigation of TM band-to-band registration using the JSC registration processor 20 p3211 N84-30398
Radiometric accuracy assessment of LANDSAT-4 Multispectral Scanner (MSS) data — Vermont 20 p3211 N84-30401
Investigation of radiometric properties of LANDSAT-4 MSS 20 p3211 N84-30403
Radiometric calibration and geocoded precision processing of LANDSAT-4 Multispectral Scanner products by the Canada Centre for Remote Sensing 20 p3212 N84-30404
Impact of LANDSAT MSS sensor differences on change detection analysis 20 p3212 N84-30408
Impact of Thematic Mapper sensor characteristics on classification accuracy 20 p3213 N84-30410
Quick look analysis of TM data of the Washington, District of Columbia area 20 p3214 N84-30418
Parametric and nonparametric analysis of LANDSAT TM and MSS imagery for detecting submerged plant communities 20 p3215 N84-30424
The use of Thematic Mapper data for land cover discrimination: Preliminary results from the UK Satmap programme 20 p3216 N84-30426
Prelaunch absolute radiometric calibration of the reflective bands on the LANDSAT-4 protoflight Thematic Mapper [E84-10180] 21 p3428 N84-31751
Prelaunch absolute radiometric calibration of LANDSAT-4 protoflight Thematic Mapper [E84-10181] 21 p3429 N84-31752
Characterization of radiometric calibration of LANDSAT-4 TM reflective bands [E84-10182] 21 p3429 N84-31753
Introduction to Thematic Mapper investigations. Section 1: Radiometry. Section 2: Geometry [E84-10185] 21 p3429 N84-31756
Relative radiometric calibration of LANDSAT TM reflective bands [E84-10186] 21 p3429 N84-31757
The effect of spatial, spectral and radiometric factors on classification accuracy using Thematic Mapper data 23 p3766 N84-33672

RADIONUCLIDES
U RADIOACTIVE ISOTOPES

RADIOSENSITIVITY
U RADIATION TOLERANCE

RADIOSONDES
NT IONOSONDES
NT RAWINSONDES
SRL tetheresonde and echosonde data, Anderson Creek Valley, California [DE84-001660] 04 p0564 N84-13715
A portable real-time data processing system for standard meteorological radiosondes [NASA-CR-175358] 07 p1036 N84-16719
Reports of the U.S. - U.S.S.R. Weddell Polynya expedition, October-November 1981. Volume 6: Upper-air data [AD-A134871] 08 p1187 N84-17736
Improved HIRS2/MSU soundings using tropopause information 12 p1851 N84-22060
Limiting ranges in atmospheric radioacoustic sounding 17 p2707 N84-27238
Meteorological sounding systems [AD-A141706] 19 p3058 N84-29405
Automated analysis of upper air soundings to specify precipitation type [PB84-174333] 20 p3248 N84-30617
Variability of the convection field pattern in South Florida and its relationship to the synoptic flow [PB84-177393] 20 p3249 N84-30623

RADIOTELEPHONES
Cordless telephone: A new degree of freedom for the telephone user — Italy 10 p1478 N84-19658

RADIUS
U RADII

RADOMES
Standard Engineering Installation Package. Ground control approach radar systems and radome(S) [AD-A130726] 01 p0066 N84-10430
Electromagnetic waves near dielectric structures [AD-A132630] 05 p0670 N84-14403
Radome analysis [AD-A136805] 10 p1481 N84-19677
Radomes for flight vehicles [AD-A140174] 16 p2483 N84-25920
An investigation of the existance of a surface water layer on aircraft radomes during simulated flight in heavy precipitation [NASA-TM-85813] 19 p3003 N84-29035
Damaged radar radome repair device [AD-D011158] 23 p3712 N84-33528

RADON
NT RADON ISOTOPES
Assessment of indoor dose from gamma ray emitters and radon daughters in Milan [CISE-2118] 07 p1073 N84-16974
Sea salt aerosol, atmospheric radon and meteorological observations in the western South Atlantic Ocean (February 1981) [AD-A134782] 08 p1195 N84-17794
Control of respirable particles and radon progeny with portable air cleaners [DE84-013878] 23 p3812 N84-34170

RADON ISOTOPES
Assessment of indoor dose from gamma ray emitters and radon daughters in Milan [CISE-2118] 07 p1073 N84-16974

RAFTS
Raft thermocline thermal storage [DE83-011962] 02 p0218 N84-11431

RAIL TRANSPORTATION
USSR report: Transportation, no. 126 [JPRS-84457] 01 p0001 N84-10001
USSR report: Transportation, no. 129 [JPRS-84573] 02 p0167 N84-11094
Effects on rail transport caused by air transport supply alternatives within the Federal Republic of Germany for the year 2000 [DFVLR-MITT-83-14] 08 p1101 N84-17160
Railroad safety program, task 2 [NASA-CR-173598] 16 p2569 N84-26483
USSR report: Transportation [JPRS-UTR-84-016] 17 p2598 N84-26652
USSR report: Transportation [JPRS-UTR-84-024] 21 p3329 N84-31119
USSR report: Transportation [JPRS-UTR-84-026] 23 p3687 N84-33368

RAILGUN ACCELERATORS
Fueling of fusion devices by pellet injection: Development in the USA [DE83-013706] 01 p0151 N84-10990
High-current railgap studies [DE83-013859] 02 p0290 N84-11898
Progress in developing repetitive pulse systems utilizing inductive energy storage [DE83-015167] 03 p0367 N84-12388
Electrical and thermal modeling of railguns [DE84-001361] 04 p0515 N84-13387
The 240-kA switch with potential application in electromagnetic-launch systems [DE84-001174] 05 p0677 N84-14449
Results from an experimental railgun system: ERGS-1A [MRL-R-875] 05 p0743 N84-14879
Rail accelerator development for ultra-high pressure research [DE84-002452] 07 p0960 N84-16223
Electromagnetic propulsion test facility [NASA-TM-83568] 07 p0961 N84-16229
Experimental electromagnetic launchers at MRL [MRL-R-894] 08 p1150 N84-17482
Thermal-energy transport from arc to rails in an arc-driven rail gun [AD-A134991] 08 p1152 N84-17499
Performance results of a small-calibre electromagnetic launcher [MRL-R-917] 16 p2483 N84-25924
Electromagnetic launchers and guns, phase 1 [AD-A143778] 23 p3698 N84-33435

RAILROADS
U RAIL TRANSPORTATION

RAILS
Optimization of ultrasonic flaw detection in railroad rail [PB83-236919] 03 p0386 N84-12518
The use of cyclone modeling in the erection of precast segmental aerial construction [AD-A132885] 05 p0663 N84-14358
Transmitted thrust on a large dual rail rocket sled system [AD-A137151] 11 p1621 N84-20608
Characteristics and capacities of the NASA Lewis Research Center high precision 6.7- by 6.7-m planar near-field scanner [NASA-TM-83785] 22 p3598 N84-32789

RAIN
NT ACID RAIN
Statistics of instantaneous rainfall rates [AD-A130089] 01 p0107 N84-10695
A simple model for the depolarizing effects of rain and ice on Earth-satellite links in the 10 to 30 GHz frequency range [NASA-CR-174482] 02 p0211 N84-11382
The southern oscilation: Oceanic-atmospheric circulation changes and related rainfall anomalies [INPE-2903-PRE/420] 02 p0253 N84-11656
A numerical study of cloud and precipitation processes in mesoscale rainbands 04 p0566 N84-13729
Estimating oceanic rainfall using microwave and GOES infrared satellite data [PB83-253013] 05 p0709 N84-14648
Review of calculations of extinction for visible and infrared wavelengths in rain [AD-A132659] 05 p0747 N84-14906
The calculated performance of some radar and transmissometer systems in rain and fog at 35, 94, 140 and 240 GHz, volume 1 [AD-A133587] 06 p0825 N84-15380
Statistic prediction techniques of rain attenuation starting from pluviometric statistics — microwave attenuation [FUB-51-1982] 06 p0826 N84-15387
Possible tidal modulation of the Indian monsoon onset 06 p0879 N84-15721
Blocking in the Southern Hemisphere, during 1975-1979 [INPE-2994-PRE/446] 07 p1032 N84-16696
Sub-cloud layer kinematics and convective rainfall in central Illinois [AD-A134483] 07 p1039 N84-16741
Project DELUGE: The development of a Holloman high speed test track heavy rainfield [AD-A134810] 08 p1106 N84-17205
Project DELUGE: A proposed mathematical model for the Holloman AFB test track simulated rainfield [AD-A134891] 08 p1108 N84-17207
Climatological coefficients for rain attenuation at millimeter wavelengths [PB84-104272] 08 p1148 N84-17475
Pertinent meteorological data for hurricane Allen of 1980 [PB84-104322] 08 p1192 N84-17766
Use of digitized radar and microcomputers to forecast local floods and irrigation needs [PB84-105566] 08 p1192 N84-17767
Investigation of a rainwater flow and temperature measuring device in a moist atmosphere refrigerant — cooling ponds [HT-31.82.11] 09 p1317 N84-18602
Attenuation data bank in the project COST 205: Generation, control, and preliminary analysis --- rain attenuation, microwaves [FUB-2-1983] 10 p1483 N84-19693
Rain attenuation at 11, 18, and 36 GHz [FOA-C-20512-E2] 12 p1810 N84-21801
AgRISTARS stage 3: The Bristol interactive scheme (BIAS) for satellite-improved rainfall monitoring: Further developments, testing and method description [PB84-150630] 12 p1837 N84-21976
Rainfall chemistry and potential beneficial-detrimental impact to indigenous vegetation [AD-A138471] 12 p1845 N84-22027
Comparison of GLAS retrieved cloud fields with model generated rainfall fields 12 p1851 N84-22061
Interannual variability of Indian monsoon rainfall 12 p1855 N84-22081
Study of the 13 GHz signal attenuation due to tropical rains [CRPE-NT-113] 13 p1984 N84-22879
Analysis of propagation conditions at 20 and 30 GHz in Europe [CRPE-NT-122] 13 p1984 N84-22880
Estimating monthly rainfall from geostationary satellite imagery over Amazonia, Brazil 13 p2016 N84-23069
Cognitive performance change during a 6-hour hike at low temperature in simulated rain, at controlled walking rates [AD-A138358] 13 p2020 N84-23100
Nozzle tests for simulating heavy rain in a wind tunnel [AD-A139566] 14 p2111 N84-23657
Two types of errors made in prediction wave attenuation by rain 15 p2322 N84-24945
Sulfate in precipitation. A presentation of data from the European Air Chemistry Network [CM-64] 15 p2367 N84-25199

Measurements of rain attenuation at 12 GHz with the BSE
[NHK-LN-292] 15 p2370 N84-25218
On the 1963 drought in Northeast Brazil
[INPE-3110-PRE/509] 16 p2526 N84-26229
Diagnostics of rainfall anomalies in the Nordeste during the global weather experiment
[SAPR-1] 16 p2529 N84-26235
Microwave remote sensing of ocean surface wind speed and rain rates over tropical storms
17 p2716 N84-27288
Improved resolution rain measurements from spaceborne radar altimeters 17 p2716 N84-27290
Observing atmospheric water in storms with the Nimbus 7 scanning multichannel microwave radiometer
17 p2716 N84-27291
Diurnal and annual variation of climatic elements in Finland
[T-551.583.13(480)] 18 p2883 N84-28294
Quantitative measurement of rainfall rate, theoretical basis 18 p2886 N84-28317
Practical measurement of rainfall rate by radar
18 p2886 N84-28318
Topics in cloud physics relevant to radar meteorology
18 p2887 N84-28326
Integrated use of radar and satellite data --- rain attenuation 18 p2888 N84-28334
The evaluation of prediction models for microwave attenuation by rainfall
[PB84-182104] 20 p3176 N84-30170
Climatic change and streamflow in the southwest
[DE84-012658] 21 p3432 N84-31776
Interannual variations of rainfall in northeast Brazil and their connections with the large-scale features
[INPE-3207-PRE/565] 21 p3447 N84-31868
Microwave terrestrial link rain attenuation prediction parameter analysis
[PB84-207984] 22 p3578 N84-32666
Estimating net rainfall, evaporation and water storage of a bare soil from sequential L-band emissivities
23 p3769 N84-33869
An approach for agricultural drought monitoring using NOAA/AVHRR and LANDSAT imagery
23 p3769 N84-33893
Remote sensing of rain by an airborne dual-frequency microwave scatterometer/radiometer
23 p3774 N84-33927
Rainfall patterns in the desert
[WCP-75] 23 p3801 N84-34099
Rain rate climatologies over marine regions
[AD-A144066] 23 p3802 N84-34109
Are droughts predictable?
[INPE-3274-PRE/598] 24 p3923 N84-34826
Determination of rainfall and condensational heating in the South Pacific convergence zone during FGGE SOP-1 24 p3925 N84-34843

RAIN EROSION

The effect of accelerated ultra violet weathering on the rain erosion resistance of coated aircraft transparencies
[AD-P003194] 17 p2591 N84-26607
The wiper abrasion and rain erosion resistance of transparent materials and coatings for aircraft glazing
[AD-P003227] 17 p2596 N84-26640
A splash and sheet erosion model from LANDSAT data 23 p3771 N84-33903

RAIN FORESTS

Analysis of normalized radar cross section (sigma-O) signature of Amazon rain forest using SEASAT scatterometer data
[E84-10168] 19 p3039 N84-29278
Daily variations of temperature and humidity within and above Amazonian forest
[INPE-3196-PRE/560] 21 p3447 N84-31869
Observations of radiation exchange above and below Amazonian forest
[INPE-3194-PRE/558] 21 p3447 N84-31870

RAIN GAGES

Reports from the German Meteorological Service. Number 163: Comparative measurements with wind shielded and unshielded rain gages
[ISBN-3-88148-203-2] 02 p0253 N84-11654
The evaluation of rain gages, illustrated by the Thies rain gage and the electrical rain gage of the Royal Netherlands Meteorological Institute (KNMI)
[KNMI-WR-83-16] 14 p2180 N84-24057

RAINDROPS

Nozzle tests for simulating heavy rain in a wind tunnel
[AD-A139566] 14 p2111 N84-23657
Acidification of rain by the oxidation of dissolved SO2 and the absorption of HNO3
[PB84-168368] 15 p2367 N84-25200

RAINMAKING

SCPP (Sierra Cooperative Pilot Project) forecasting support, volume 1
[PB84-107911] 08 p1194 N84-17782

RAINSTORMS

NT THUNDERSTORMS
Continuum mechanics approach to streamflow modeling
[PB83-265041] 05 p0698 N84-14581
The relation between the gravity current in the atmospheric boundary layer and local heavy rainfall
[AD-A137193] 10 p1539 N84-20086
Aircraft accident report: Eastern Air Lines, Inc., Boeing 727-225, N8838E, Raleigh, North Carolina, November 12, 1975
[PB83-910406] 11 p1603 N84-20500
Acid rain bibliography
[PB84-138940] 11 p1677 N84-20941
On the structure of the narrow cold-frontal rainband
16 p2532 N84-26254

RAM PROJECT

U RADIO ATTENUATION MEASUREMENT PROJECT

RAMAN EFFECT

U RAMAN SPECTRA

RAMAN SCATTERING

U RAMAN SPECTRA

RAMAN SPECTRA

Raman studies of CuTCNQ: Resonance Raman spectral observations and calculations for TCNQ ion-radicals
[AD-A130570] 01 p0037 N84-10231
Scaling studies of efficient Raman converters
[AD-A130382] 01 p0066 N84-10560
High-repetition-rate amplification of 16 (SIGMA) micron radiation
[DE83-012782] 01 p0067 N84-10569
Evaluation of non-intrusive flow measurement techniques for a re-entry flight experiment
[NASA-CR-172142] 04 p0489 N84-13212
N(2) and CO vibrational CARS and h(2) rotational CARS spectroscopy of CH(4)-N(2)O flames
[AD-A132234] 04 p0493 N84-13238
Raman and fluorescent scattering by molecules embedded in small particles
[DE84-001278] 04 p0597 N84-13937
Low-frequency Raman scattering from vitreous and molten B2O3
[AD-A132698] 05 p0649 N84-14269
Low frequency Raman spectra of V-B2O3 as a function of temperature and pressure
[AD-A132699] 05 p0649 N84-14270
Raman study of graphitic-carbon concentrations in the Western Arctic
[DE84-001090] 05 p0700 N84-14596
Design and initial operational characteristics of a shock tube-Raman scattering calibration system
[AD-A133251] 06 p0847 N84-15525
Raman measurements of the mobile cation vibrations in Na, K, Ag and Li (ALPHA)'-alumina
[DE83-015697] 06 p0924 N84-16005
Rotational CARS application to simultaneous and multiple-point temperature and concentration determination in a turbulent flow
[NASA-CR-175334] 07 p1001 N84-16489
Melting phenomena investigated by laser light scattering
[DE84-002004] 07 p1010 N84-16554
Evaluation of turbulence induced noise in coherent anti-Stokes Raman scattering
[NASA-CR-166544] 08 p1227 N84-18015
Thresholds of Raman backscatter: Effects of collisions and Landau damping
[DE84-003736] 08 p1233 N84-18060
CARS studies of nitramine lova propellant combustion
[AD-A135813] 09 p1280 N84-18357
Rotational cars application to simultaneous and multiple-point temperature and concentration determination in a turbulent flow
[NASA-CR-3783] 09 p1385 N84-19044
Stimulated Cerenkov-Raman scattering
[AD-A136473] 09 p1387 N84-19061
Surface plasmon-enhanced Raman scattering at thin silver films
[AD-A138321] 12 p1793 N84-21691
Nonlinear optics with broad-band lasers
[DE84-005769] 12 p1908 N84-22432
Utilization of laser diagnostics to evaluate combustor models 15 p2294 N84-24767
Laser diagnostics of materials and chemistry
[DE84-007469] 15 p2339 N84-25043
Resonant coherent anti-Stokes Raman scattering
[ONERA-P-1983-3] 16 p2467 N84-25954
Theoretical calculations of H(2) CARS spectra for propellant flames
[AD-A135816] 17 p2619 N84-26758
Wavelength scaling of the two plasmon decay and stimulated Raman scattering instabilities
[DE84-008934] 18 p2847 N84-28077
Surface-Enhanced Raman Scattering for redox-active adsorbates: Pentaammineosmium (3)/(2) and Pentaammineruthenium (2) containing nitrogen heterocycle ligands
[AD-A142418] 20 p3148 N84-29987
Efficient forward conversion in a Raman generator
[DE84-007466] 20 p3194 N84-30285
Study of stimulated Brillouin and Raman scattering
[DE84-011260] 20 p3194 N84-30286
Observation of scattered light between Omega-2 and 3/2-Omega in short wavelength laser produced plasmas
[DE84-012533] 20 p3306 N84-31001
A new model of Raman spectra in laser produced plasma
[DE84-012487] 20 p3307 N84-31005
Raman spectroscopy measurements of flame quenching in a duct-type crevice, appendix B
[DE84-009328] 21 p3362 N84-31329
Nonlinear theory of the free-electron laser
[INPE-3193-PRE/557] 21 p3409 N84-31618
Thomson backscattering from an intense relativistic electron beam as a diagnostic for a free electron laser
[AD-A143027] 21 p3409 N84-31623
Raman investigation of the rate of OH uptake in stressed and unstressed optical fibers
[AD-A143142] 21 p3498 N84-32172
A new model of Raman spectra in laser produced plasma
[DE84-009625] 21 p3501 N84-32188
How useful are odd-integer half-harmonics
[DE84-012392] 21 p3501 N84-32190
The interpretation of very low frequency Raman scattering from roughened silver electrodes: Clusters, cavities or complexes?
[AD-A143471] 22 p3657 N84-33184
Combustion chemistry of vibrationally excited oxygen
[AD-A143791] 23 p3714 N84-33540
Raman spectroscopic study of acetylene on supported rhodium catalysts
[AD-A144099] 23 p3714 N84-33544
The theory of free electron lasers
[INPE-3158-TDL/170] 23 p3753 N84-33790

RAMAN SPECTROSCOPY

Investigation of coherent anti-Stokes Raman scattering measurements in carbon ablation experiments
[AD-A130578] 01 p0036 N84-10230
Coherent Anti-Stokes Raman Scattering (CARS) detection or hot atom reaction product internal energy distributions
[DE83-012684] 01 p0142 N84-10936
Fast, non-linear optical-scattering spectroscopy in shock-compressed organic liquids
[DE83-007548] 01 p0148 N84-10972
Raman spectroscopies in shock-compressed materials
[DE83-014170] 02 p0190 N84-11236
Single-pulse coherent Raman spectroscopy in shock-compressed benzene
[DE83-014140] 02 p0219 N84-11433
Laser spectroscopy of propellant-like flames
[AD-A132042] 03 p0349 N84-12267
N(2) and CO vibrational CARS and h(2) rotational CARS spectroscopy of CH(4)-N(2)O flames
[AD-A132234] 04 p0493 N84-13238
Absolutely unstable stimulated Brillouin scattering and 2-plasmon decay
[DE84-000823] 04 p0611 N84-14032
The CARS spectroscopy in a supersonic jet
06 p0800 N84-15216
Raman spectroscopy of shocked water
[DE84-002468] 07 p0972 N84-16295
Measurements of CARS intensity in hydrogen molecule behind shock waves 07 p0984 N84-16375
Laser diagnostic development and measurement and modeling of turbulent flowfields of jets and wakes. Part 3: The development of a 2-channel CW Time-Resolved Laser Raman Spectroscopy (TiLaRS) system for measurements in gas flowfields
[AD-A134693] 08 p1159 N84-17544
Development of the CARS method for measurement of pressure and temperature gradients in centrifuges
[DE84-006321] 11 p1629 N84-20660
Theory of surface enhanced Raman scattering: A prospective view
[AD-A138320] 12 p1793 N84-21690
Nonlinear optics with broad-band lasers
[DE84-005769] 12 p1908 N84-22432
Optical gas temperature measurement in gas turbines
[PNR-90174] 13 p1933 N84-22572
Theoretical calculation of H/sub 2 S- and Q-branch spectra for propellant flames 13 p1943 N84-22836
CARS studies of nitramine LOVA propellant combustion 13 p1951 N84-22683

Observation of surface-enhanced Raman scattering for transition-metal hexaammine cations at the outer Helmholtz plane: Implications for enhancement mechanisms at electrochemical interfaces
[AD-A139045] 13 p1956 N84-22719
Surface-enhanced Raman spectroscopy of electrochemically characterized interfaces. Relations between Raman scattering intensity and surface coverage for simple anionic adsorbates
[AD-A139054] 13 p1957 N84-22721
Electrochemistry at the molecular level
[AD-A140070] 15 p2287 N84-24723
Molecular velocimetry using stimulated Raman spectroscopy
[NASA-TM-85808] 15 p2405 N84-25433
Resonant coherent anti-Stokes Raman scattering
[ONERA-P-1983-3] 16 p2487 N84-25954
Theoretical calculations of H(2) CARS spectra for propellant flames
[AD-A135818] 17 p2619 N84-26758
Semiconductors investigated by time resolved Raman absorption and photoluminescence spectroscopy using femtosecond and picosecond laser techniques
[AD-A141381] 19 p3029 N84-29209
Surface-enhanced Raman spectroscopy of electrochemically characterized interfaces. Transition-metal isothiocyanate adsorbates at silver adsorbates
[AD-A142407] 20 p3148 N84-29986
Surface-Enhanced Raman Scattering for redox-active adsorbates: Pentaammineosmium (3)/(2) and Pentaammineruthenium (2) containing nitrogen heterocycle ligands
[AD-A142418] 20 p3148 N84-29987
Temperature dependence of the Raman OH-stretching overtone from liquid water
[AD-A143131] 21 p3359 N84-31305
Raman and infrared spectroscopy of molecules adsorbed on metal electrodes
[AD-A143466] 22 p3547 N84-32454
Highly sensitive high resolution Raman spectroscopy using resonant ionization methods
[DE84-012240] 22 p3548 N84-32460
Interaction of high intensity subnanosecond CO2 laser pulses with molecules
[AD-A143654] 23 p3754 N84-33795

RAMJET ENGINES
NT SUPERSONIC COMBUSTION RAMJET ENGINES
Linear theory of pressure oscillations in liquid fueled Ramjet engines
[AD-A130882] 01 p0011 N84-10071
Linear theory of pressure oscillations in liquid-fueled ramjet engines
[AD-A131610] 01 p0012 N84-10075
Analytical design of a liquid hydrogen fueled turbofan-ramjet engine for flight Mach numbers zero to five 03 p0336 N84-12187
Mechanisms of exciting pressure oscillations in ramjet engines
[AD-A133977] 05 p0631 N84-14150
Turbulent mixing and combustion of multi-phase reacting flows in ramjet and ducted rocket environment
[AD-A133802] 05 p0632 N84-14152
Particle sizing in a fuel-rich ramjet combustor
[AD-A135632] 09 p1257 N84-18204
Multi-ducted Inlet combustor research and development
[AD-A135906] 09 p1257 N84-18205
A parametric study of ramrocket performance
[ARL-MECH-ENG-NOTE-395] 11 p1625 N84-20633
Particle sizing in a fuel rich airbreathing engine combustor 13 p1943 N84-22634
Three-dimensional, primitive-variable model for solid-fuel ramjet combustion 13 p1952 N84-22686
Heterogeneous diffusion flame stabilization: Constant density results 13 p1952 N84-22689
Detailed flow measurements in fuel-rich, particle-laden plumes 13 p1952 N84-22690
Three-dimensional, primitive-variable model for solid-fuel ramjet combustion
[AD-A138756] 13 p1956 N84-22715
Mixing of swirling flows and behavior of wet flows
[AD-A138697] 13 p1989 N84-22915
Sensitivity analysis of predicted reacting flow characteristics in solid fuel ramjet combustors
[AD-A141279] 18 p2796 N84-27740
Firebolt derivative/ramjet engine feasibility investigation (core engine program): Program summary 20 p3144 N84-29962
Aerodynamic and Propulsion Test Unit (APTU) performance with a vitiated air heater 20 p3144 N84-29964
The annular flow electrothermal ramjet
[NASA-CR-174704] 21 p3354 N84-31275
Computational Methods: 1984 JPM Specialist Session
[AD-A142923] 21 p3354 N84-31276
Computational hierarchy for the analysis of combustion phenomena in ramjet environments 21 p3354 N84-31277
Comparison of combustion efficiencies for ramjet engines
[NASA-TM-77749] 23 p3694 N84-33411

RAMJET MISSILES
Air intakes for a probative missile of rocket ramjet
[NASA-TM-77407] 09 p1251 N84-18170
Firebolt derivative/ramjet engine feasibility investigation (core engine program): Program summary 20 p3144 N84-29962

RAMPS (STRUCTURES)
Calculation of vertical and ramp-assisted takeoffs for supersonic cruise fighters
[NASA-TM-85818] 17 p2600 N84-26668

RANDOM ACCESS
NT ALOHA SYSTEM
Reasoning about digital circuits
[AD-A136634] 09 p1365 N84-18914
Applications of functional analytic and Martingale methods to problems in queueing network theory
[AD-A137748] 11 p1718 N84-21208
COSMIC/NASTRAN free-field input 22 p3609 N84-32865

RANDOM ACCESS MEMORY
Low-power radiation-hard GaAs RAM
[AD-A132325] 04 p0526 N84-13457
Effects of space radiation on advanced semiconductor devices. Part 2: Cosmic ray simulation experiments for the study of single event upsets in CMOS technology
[G-2745-VOL-2] 08 p1153 N84-17506
Advanced on-board signal processor GaAs memory
[AD-A135465] 08 p1210 N84-17890
High speed, low power MOS technologies
[BMFT-FB-T-83-289] 12 p1916 N84-22484
Fast decoding techniques for extended single-and-double-error-correcting Reed Solomon codes
[NASA-CR-173617] 16 p2543 N84-26325
Development of VLSI memories
[BMFT-FB-T-84-022] 16 p2560 N84-26423
BCH codes for large IC random-access memory systems
[NASA-CR-166549] 17 p2751 N84-27460
Memory-based parallel data output controller
[NASA-CASE-GSC-12447-2] 18 p2916 N84-28491
Test procedures and design methods for reliable large scale integrated circuits and systems
[AD-A143324] 22 p3638 N84-33061
Flexible disk data storage unit
[INPE-2982-RPE/451] 23 p3814 N84-34181
Software support for a video disc based terrain map display system
[AD-A143700] 23 p3834 N84-34324
Data buffer apparatus between subsystems which operate at differing or varying data rates
[AD-D011206] 24 p3940 N84-34941
On extending functional capabilities of cellular-logic devices for database management 24 p3959 N84-35067

RANDOM DISTRIBUTIONS
U STATISTICAL DISTRIBUTIONS

RANDOM ERRORS
Effects of space radiation on advanced semiconductor devices. Part 2: Cosmic ray simulation experiments for the study of single event upsets in CMOS technology
[G-2745-VOL-2] 08 p1153 N84-17506
Narrowband (LPC-10) vocoder performance under combined effects of random bit errors and jet aircraft cabin noise
[AD-A141333] 18 p2830 N84-27967

RANDOM LOADS
NT GUST LOADS
Aeroelastic response of an aircraft wing to random loads
[AD-A130476] 01 p0004 N84-10028
Nonlinear response and noise transmission of double wall sandwich panels 02 p0187 N84-11215
Random vibrations of multicomponent structures 22 p3607 N84-32854
A simulation process for determining reliability of cyclic random loaded structures
[AD-P003849] 24 p3939 N84-34936

RANDOM NOISE
NT RANDOM SIGNALS
The detection of signals in impulsive noise
[AD-A130393] 01 p0062 N84-10409
Distributed detection of signal waveforms in additive Gaussian observation noise
[AD-A131016] 01 p0066 N84-10434
Digital communication in the presence of impulsive noise 06 p0827 N84-15392
Application of the Gibbs distribution to image segmentation
[AD-A133406] 06 p0901 N84-15850
Sampling mismatch and timing jitter in pulse-Doppler radar
[AD-A134683] 08 p1144 N84-17447
Noise
[AD-A135066] 08 p1222 N84-17983
An adaptive, noise tolerant, frequency extrapolation algorithm for diffraction corrected ultrasound tomography
[AD-A136455] 09 p1375 N84-18982
Deterministic and random phase noise of oscillation — synthetic aperture radar
[DFVLR-MITT-83-11] 10 p1483 N84-19695
An investigation of the effects of scan separation on the sensitivity of the SETI all sky survey for the case of Gaussian noise 16 p2480 N84-25905
Estimation of the parameters of an unmodulated carrier signal disturbed by complex-multiplicative and additive Gaussian noise
[ESA-TT-737] 16 p2482 N84-25914
Structure of quasi-hyperbolic stochasticity in inertial self-excited oscillator 18 p2823 N84-27923
Spectral averaging and low-frequency sampling modifications for the IQS 401 FFT (Fast Fourier Transform) spectrum analyzer
[AD-A141161] 18 p2834 N84-27990
Uniform apparent contrast noise: A picture of the noise of the visual contrast detection system
[NASA-TM-85867] 19 p3067 N84-29456
Locally optimum and suboptimum detector performance in a non-Gaussian interference environment
[PB84-184738] 20 p3176 N84-30173
On fixed-interval minimum symbol error probability detection
[AD-A142465] 20 p3263 N84-30849

RANDOM NUMBERS
Some efficient random number generators for micro computers
[AD-A134558] 07 p1053 N84-16815
Random number generators for a pocket calculator
[MC-SW-93/83] 07 p1064 N84-16904
An exhaustive analysis of multiplicative congruential random number generators with modulus 2(31)-1
[AD-A143085] 21 p3473 N84-32015
Random numbers from small calculators
[AD-P003850] 24 p3940 N84-34937

RANDOM PROCESSES
NT RANDOM WALK
Superregenerative amplifier in linear mode as a radar range gate-derivations
[DE84-000978] 04 p0528 N84-13474
Optimum filtering required for broadband detection of Gaussian processes
[AD-A133721] 05 p0735 N84-14823
Sea height information from complex SAR data
[NASA-CR-173199] 07 p1060 N84-16872
Optimal inference with chaotic dynamics 07 p1060 N84-16875
Program for a constructive physics
[DE84-005425] 12 p1916 N84-22486
Artificial intelligence applied to spectrum estimation
[AD-A142202] 19 p3007 N84-29062
Extreme value estimates for arbitrary bandwidth Gaussian processes using the analytic envelope
[AD-A141685] 19 p3086 N84-29591
Random capacities and their distributions
[CTH-MATH-1984-03] 19 p3094 N84-29649
Generation of two stage random graphs — telecommunication network analysis
[FI-032-TB-16] 23 p3732 N84-33654

RANDOM SAMPLING
Relationship of characteristics of the research methods used in two subfields of geology and the growth of published research in those subfields 02 p0245 N84-11606
Quality control and sample comparison by differential modal analysis
[MBB-BB-543-83-OE] 03 p0386 N84-12514
TRAN-STAT (statistics for environmental studies). Issue no. 24: Field sampling designs, simple random and stratified random sampling
[DE83-016826] 03 p0427 N84-12803
The nature and analysis of random waves in shallow water. Part 1: Text and figures
[CSIR-RR-388/1-PT-1] 04 p0532 N84-13496
The nature and analysis of random waves in shallow water. Part 2: Appendices
[CSIR-RR-388/2-PT-2] 04 p0532 N84-13497

RANDOM SIGNALS
Investigation of statistical characteristics of random signals in nonlinear medium 21 p3485 N84-32066
Relations between algorithms of adaptive optimization of antenna arrays and algorithms of optimum detection of multidimensional stochastic signal 22 p3566 N84-32588

RANDOM VARIABLES
On the distribution of the studentized maximum of equally correlated normal random variables
[AD-A131529] 02 p0282 N84-11848
Limit theorems for the eigenvalues of product of two random matrices
[AD-A131682] 03 p0425 N84-12787
Recurrence of symmetric random walks
[AD-A133807] 05 p0739 N84-14855
An efficient generator of uniformly distributed random deviates between zero and one
[AD-A132851] 05 p0741 N84-14865
On the fitting of Pearson curves to sums of independent random variables
[AD-A133153] 06 p0900 N84-15844
A note on the analysis of random balance designs
[AD-A133287] 06 p0901 N84-15848
Convergence of quadratic forms in p-stable random variables and theta sub p-radonifying operators
[AD-A135314] 08 p1219 N84-17959
On the Fatou inequality
[AD-A136383] 09 p1374 N84-18973
Calculation of cumulative distributions and detection probabilities in communications and optics
[AD-A136561] 09 p1376 N84-18989
A robust multiple correlation coefficient for the rank analysis of linear models
[AD-A135666] 09 p1383 N84-19030
Approximating the distribution of a dynamic risk portfolio
[AD-A136039] 09 p1383 N84-19035
Estimation of latent group effects
[AD-A139299] 14 p2218 N84-24310
Performance of telecommunications systems in a random probabilistic environment. Task 1: Comparisons of spread-spectrum and conventional narrowband modulation methods
[PB84-158542] 17 p2655 N84-26979
An autoregressive process for Beta random variables
[AD-A140848] 17 p2759 N84-27514
Comments on a problem of Chernoff and Petkau
[AD-A140911] 17 p2759 N84-27518
Random field satisfying a linear partial differential equation with random forcing term
[AD-A141886] 19 p3088 N84-29806
Applications of combinatorics to the busy period in several queueing models
[AD-A142492] 20 p3284 N84-30850
Distribution results for positive definite quadratic forms with repeated roots
[AD-A143450] 22 p3645 N84-33115
Distributions of central quadratic forms in normal variables: A comparison of algorithms
[AD-A143468] 22 p3646 N84-33116
Variability orderings related to coverage problems on the circle
[AD-A143364] 22 p3648 N84-33130
One-sided r-reliable intervals and their associated confidences on the sum of two Continuous/independent, random variables
[AD-A143387] 22 p3648 N84-33131
TP2 orderings
[AD-A143434] 22 p3648 N84-33132
Kolmogorov's and Mourier's strong laws for arrays with independent and identically distributed columns
[AD-A143222] 22 p3650 N84-33139
Markov processes applied to control, replacement and signal analysis
[AD-A144225] 24 p3953 N84-35034

RANDOM VIBRATION
Dynamic behaviour of a satellite antenna structure in random vibration environment 10 p1512 N84-19900
Criteria for accelerated random vibration tests with non-linear damping 10 p1513 N84-19902
Experimental measurement of material damping using digital test equipment 10 p1514 N84-19913
Development of baseline random vibration environment criteria for Shuttle pallet payload subsystems
[NASA-TM-86067] 14 p2113 N84-23666
Large deflection multimode response of clamped rectangular panels to acoustic excitation, volume 1
[AD-A139622] 15 p2350 N84-25107
Random vibrations of multicomponent structures 22 p3607 N84-32854
An assembly language program for calculating random decrement signatures
[AD-A143908] 23 p3815 N84-34195

RANDOM WALK
A random walk subject to a randomly changing environment
[AD-A133847] 05 p0739 N84-14854
A solution to the problem of the flow around a circular cylinder between two parallel plates with the Monte Carlo method
[PREPRINT-791] 12 p1817 N84-21846
Annual report on grant AFOSR-80-0228
[AD-A140512] 16 p2550 N84-26365
Comments on a problem of Chernoff and Petkau
[AD-A140911] 17 p2759 N84-27518
Comment on corrected diffusion approximations in certain random walk problems'
[AD-A140923] 17 p2759 N84-27519
Brownian motion and random walks on manifolds 22 p3636 N84-33051

RANGE
Preliminary field tests for detecting flying targets in front of a land background — ground observers
[FOA-C-56033-H2] 08 p1204 N84-17847

RANGE (EXTREMES)
NT FREQUENCY RANGES
NT ROCHE LIMIT

RANGE AND RANGE RATE TRACKING
Laser ranging technology for space to space applications. Volume 2: High stability CO2-laser for range rate finder development of critical technologies
[ESA-CR(P)-1877] 17 p2673 N84-27035

RANGE CONTROL
U TRAJECTORY CONTROL

RANGE ERRORS
Satellite tracking and Earth dynamics research programs
[NASA-CR-173502] 14 p2112 N84-23661
Error response of a trapezoidal pulses DME technique disturbed by multipath effects and noise
[ESA-TT-747] 16 p2482 N84-25915

RANGE FINDERS
NT LASER RANGE FINDERS
Investigation of the distancemeter Geodimeter 122 and the Autoranger-A 02 p0234 N84-11537
Economic application of assembly robots: Elements of sensor applications to programmable feeders
[PB84-193200] 21 p3415 N84-31656

RANGE INDICATORS
U RANGE FINDERS

RANGE MEASUREMENT
U RANGEFINDING

RANGE SAFETY
Range safety display system upgrade
[AD-A133789] 05 p0642 N84-14225
Range safety transponder catalog
[AD-A140095] 15 p2270 N84-24631

RANGEFINDING
NT LUNAR RANGEFINDING
Range resolution of targets
[AD-A131065] 01 p0067 N84-10437
LIDAR (light detection and ranging) measurements for astronomical refraction. Feasibility and system definition study
[AD-A130740] 01 p0147 N84-10966
Accuracy estimates of gravity potential differences between western Europe and United States through Lageos satellite laser ranging network
[AD-A131838] 03 p0408 N84-12669
The development of a digital processing system for accurate range determinations — for Teleoperator Manouvering Systems 06 p0930 N84-16046
Effects of adopting new precession, nutation and equinox corrections on the terrestrial reference frame 07 p1029 N84-16670
Earth strain measurements with the transportable laser ranging system: Field techniques and planning
[NASA-CR-175150] 08 p1186 N84-17725
Pulse heterodyne equipment for measurements of range and velocity of moving targets — pulse radar
[DFVLR-FB-83-18] 10 p1483 N84-19696
Satellite tracking and Earth dynamics research programs
[NASA-CR-173502] 14 p2112 N84-23661
Range-Doppler Moving Target Indicator (MTI) analysis and assessment
[AD-A139579] 14 p2141 N84-23836
Discussion of the design of satellite-laser measurement stations in the eastern Mediterranean under the geological aspect. Contribution to the earthquake prediction research by the Wegener Group and to NASA's Crustal Dynamics Project
[NASA-TM-77412] 14 p2175 N84-24031
Range corrections for airborne radar - A joint STARS study
[AD-A142363] 20 p3174 N84-30154
Panama Canal Fog Navigation Study: Candidate system definition
[PB84-180793] 20 p3249 N84-30624
Terminal control for command to line of sight guided missile 21 p3350 N84-31252
Design criteria for space based laser ranging systems 24 p3906 N84-34751
Continuous wave (CW) diode laser instrumentation for rendezvous and docking maneuvers in geosynchronous orbits 24 p3908 N84-34752
Laser diode range finder - target acquisition and tracking system functional model/demonstration model 24 p3908 N84-34754

RANGELANDS
Evaluating proposed improvements of public rangelands
[PB83-251124] 04 p0556 N84-13669
Classification and area estimation of land covers in Kansas using ground-gathered and LANDSAT digital data
[E84-10068] 06 p0865 N84-15837
Evaluation of a native vegetation masking technique
[E84-10108] 12 p1829 N84-21926
Climatic change and streamflow in the southwest
[DE84-012658] 21 p3432 N84-31776

RANGER PROJECT
The cart before the horse: Mariner spacecraft and launch vehicles 24 p3990 N84-35250

RANGES (FACILITIES)
NT MISSILE RANGES
NT TEST RANGES
Joint operating procedure for interrange scheduling
[AD-A130680] 01 p0017 N84-10111
Operational applications of military test ranges in space transportation system programs
[AD-A132535] 04 p0490 N84-13217
Range reference atmosphere 0-70 km altitude
[AD-A132487] 04 p0567 N84-13737

RANGING
U RANGEFINDING

RANK TESTS
Asymptotic null and nonnull distributions of three multivariate test statistics in Gmanova
[TR-82] 04 p0592 N84-13905
Evaluation of document retrievel ranking algorithms 11 p1711 N84-21154
Asymptotic relative efficiencies of the rank transformation procedure in randomized complete block designs
[DE84-010600] 22 p3649 N84-33134
On the Lehmann power analysis for the Wilcoxon Rank Sum Test
[AD-P003844] 24 p3939 N84-34932

RANKINE CYCLE
Technical and economic investigations of a low-temperature Rankine-cycle heat engine
[DE83-016757] 01 p0091 N84-10596
The space nuclear reactor program
[GPO-22-828] 02 p0185 N84-11204
Development of a solar-driven free-piston heat pump
[DE83-015024] 02 p0220 N84-11440
Stirling-engine heat-actuated heat pump
[DE83-017137] 04 p0537 N84-13529
Cycle of waste heat energy transformation — industrial waste heat
[BMFT-FB-T-83-173] 07 p1026 N84-16652
Kuwait, phase 3/stage 1: Application and test program for the Sulaibyah food/water/power system
[BMFT-FB-T-84-024] 16 p2478 N84-25876
Current status of an organic Rankine cycle engine development program 18 p2872 N84-28230
Determination of thermal-degradation rates of some candidate Rankine-cycle organic working fluids for conversion of industrial waste heat into power
[DE84-009585] 20 p3197 N84-30304
Engineering research on positive displacement gas expanders, phase 1
[DE84-008977] 20 p3198 N84-30310
An RC-1 organic Rankine bottoming cycle for an adiabatic diesel engine
[NASA-CR-168256] 21 p3521 N84-32306
Investigation of thermal stability of fluorinol-85 and 2-methylpyridine-water as Rankine cycle power system working fluids
[DE84-006420] 22 p3562 N84-32559
Steam bottoming cycle for an adiabatic diesel engine
[NASA-CR-168255] 22 p3676 N84-33304
Thermodynamic analysis of multicomponent working fluids for Rankine bottoming cycle applications
[DE84-014843] 23 p3757 N84-33814

RANKINE-HUGONIOT RELATION
Shock wave modelling and the HULL computer code formation of Mach stems
[MRL-R-907] 16 p2486 N84-25942

RANKING
Optimal sampling in selection problems
[AD-A130248] 01 p0136 N84-10891
Robust estimates of ordered parameters
[AD-A131204] 02 p0282 N84-11846
Linear rank procedures for matched observations
[AD-A131338] 02 p0284 N84-11862
An iterated logarithm law result for extreme values from Gaussian sequences
[AD-A129559] 03 p0427 N84-12798

A multiple ranking procedure adapted to discrete-event simulation
[AD-A133649] 05 p0740 N84-14860
Research on nonparametric methods for linear models
[AD-A135850] 09 p1377 N84-18992
Quantification of subjective ratings through conjoint measurement analysis
[AD-A136810] 13 p1930 N84-22554
An evaluation of ARIADNE (alternative ranking interactive aid based on dominance structure information elicitation)
[AD-P002691] 13 p1960 N84-22852
Properties of a new rank statistic for comparing two populations in an arbitrary right censoring sampling scheme
[AD-A139840] 15 p2400 N84-25400
Subset selection procedures: A review and an assessment
[AD-A140266] 16 p2551 N84-26368
Acceptance of a meal and its components: An exercise in missing data
[AD-P003852] 24 p3940 N84-34938

RAPID QUENCHING (METALLURGY)
Method for forming an insulating film on electromagnetic steel sheet
[BLL-OA-TRANS-3124-(6196.3)] 09 p1281 N84-18368
A study of the magnetic and metallurgical properties of Sm(Co,Fe,Cu, Zr) sub z alloys near z = 8.5
[AD-A138253] 12 p1798 N84-21728
Metastable transition metal alloys produced by rapid quenching: Structure and properties
[AD-A136296] 12 p1798 N84-21729
Advanced powder metallurgy aluminum alloys via rapid solidification technology
[NASA-CR-172343] 16 p2464 N84-25794
The use of Jominy end quench to assess the hardenability of higher strength titanium alloys
[PNR-90169] 19 p2981 N84-28957
Amorphous metals with high magnetic permeability
[BMFT-FB-T-84-056] 19 p2996 N84-28983
Processing and consolidation of rapidly solidified alloys: A technology assessment
[DE84-014673] 22 p3557 N84-32523
Bulk undercooling 24 p3881 N84-34591

RAPID TRANSIT SYSTEMS
Application of active and passive suspension techniques to improve high speed ground vehicle performance
[PB83-224576] 01 p0164 N84-11076
High power bogie for 350 km/h. Design and definition — locomotives
[MBB-UD-376-OE] 05 p0687 N84-14518

RARE EARTH ALLOYS
NT ERBIUM ALLOYS
NT GADOLINIUM ALLOYS
A study of the magnetic and metallurgical properties of Sm(Co,Fe,Cu, Zr) sub z alloys near z = 8.5
[AD-A138253] 12 p1798 N84-21728
Formation of dispersions of rare earth oxides in titanium alloys using rapid solidification processing
[DE84-006664] 20 p3157 N84-30048

RARE EARTH COMPOUNDS
NT CERIUM OXIDES
NT ERBIUM COMPOUNDS
NT EUROPIUM COMPOUNDS
NT NEODYMIUM COMPOUNDS
NT SAMARIUM COMPOUNDS
NT SCANDIUM COMPOUNDS
NT THULIUM COMPOUNDS
NT YTTERBIUM COMPOUNDS
Mechanisms and kinetics of diphthalocyanine electrode processes
[AD-A131726] 03 p0349 N84-12270
Materials research for advanced inertial instrumentation. Task 3: Rare earth magnetic material technology as related to gyro torquers and motors — high energy SmCo5 magnets
[AD-A140611] 17 p2762 N84-27542
Neutron diffraction studies of some rare earth-transition metal deuterides
[AD-A140757] 17 p2764 N84-27557
Thin film synthesis of superconducting chemical compounds
[AD-A142541] 20 p3148 N84-29992
New materials from high temperature synthesis
[DE84-014125] 22 p3664 N84-33231
An experimental study of praseodymium intermetallic compounds at low temperatures
[DE83-704748] 24 p3884 N84-34612

RARE EARTH ELEMENTS
NT CERIUM
NT ERBIUM
NT EUROPIUM
NT GADOLINIUM
NT HOLMIUM
NT LANTHANUM
NT LUTETIUM
NT NEODYMIUM
NT PRASEODYMIUM
NT SAMARIUM
NT YTTERBIUM
NT YTTRIUM
Heavy-ion reaction mechanisms studied with the spin spectrometer
[DE83-015716] 01 p0144 N84-10950
Microprobe analyses of rare-earth-element fractionation in meteoritic minerals
[DE83-017326] 04 p0621 N84-14097
Cluster analysis of rare earths in stellar spectra 09 p1410 N84-19222
Average sedimentary rock rare Earth element patterns and crustal evolution: Some observations and implications from the 3800 Ma ISUA supracrustal belt, West Greenland 11 p1678 N84-20953
Rare-earth metals and their applications in aviation
[AD-A144410] 24 p3884 N84-34607

RARE GAS-HALIDE LASERS
NT KRYPTON FLUORIDE LASERS
NT XENON CHLORIDE LASERS
XeF pumped Tm:YLF laser scaling
[AD-A140004] 15 p2339 N84-25041
Visualization for a free jet by a laser induced fluorescence method and its structure 20 p3169 N84-30120

RARE GASES
NT ARGON
NT HELIUM
NT HELIUM ISOTOPES
NT KRYPTON
NT LIQUID HELIUM
NT LIQUID HELIUM 2
NT NEON
NT NEON ISOTOPES
NT RADON
NT RADON ISOTOPES
NT XENON
NT XENON 133
Optical properties of explosive-driven waves in noble gases
[DE83-015236] 01 p0082 N84-10536
Radiation and laser potential of homo and heteronuclear rare-gas diatomic molecules
[AD-A130093] 01 p0141 N84-10929
Advanced-laser development for isotope separation
[DE83-016151] 02 p0227 N84-11488
Reactions of metastable rare gases with copper atoms
[AD-A136448] 09 p1278 N84-18348
Spectroscopic studies of the products of the reactions of excited noble-gas atoms
[AD-A137750] 11 p1730 N84-21284
Search for extended-lifetime optically excited laser media
[DE84-009795] 18 p2847 N84-28076
Aircraft fuel tank inerting system
[AD-A141863] 19 p2964 N84-28785
Electron impact cross sections for molecular lasers
[AD-A141754] 19 p3029 N84-29211
The role of metastables in reactive plasmas
[LP-206] 19 p3109 N84-29756
Measurements of integral state-specific cross sections of inelastic collisions between NO and noble gases
[MPIS-18/1983] 20 p3297 N84-30935
Isotopically selective counting of noble gas atoms, using resonance ionization spectroscopy
[DE84-011636] 21 p3361 N84-31320
Method of gas purification and system therefore
[DE84-014322] 23 p3720 N84-33582
Study of the contributions of chemical and van der Waal forces to interaction between fluorine and Ar, Kr and Xe, using molecular beam scattering investigations of integral scattering cross sections
[MPIS-1/1984] 23 p3823 N84-34248

RAREFACTION WAVES
U ELASTIC WAVES

RAREFIED GAS DYNAMICS
The kinetic theory of gases with applications in rarefied gas dynamics
[PREPRINT-746] 02 p0221 N84-11449
Dynamics of rarefied gas and molecular gas dynamics
[AD-A132689] 05 p0749 N84-14921

RAREFIED GASES
NT COSMIC GASES
NT INTERPLANETARY GAS
NT INTERSTELLAR GAS
NT NEUTRAL GASES
Aerodynamic and thermal characteristics of 3-dimensional stellate bodies in rarefied gas 17 p2644 N84-26915
Interaction of jet discharged from container and opposing supersonic stream of rarefied gas 17 p2644 N84-26917

RASERS
U MASERS

RATE METERS
U MEASURING INSTRUMENTS

RATES (PER TIME)
NT ACCELERATION (PHYSICS)
NT ACOUSTIC VELOCITY
NT AIRSPEED
NT ANGULAR ACCELERATION
NT ANGULAR VELOCITY
NT ARRHYTHMIA
NT BURNING RATE
NT COLLISION PARAMETERS
NT COLLISION RATES
NT CRITICAL VELOCITY
NT CURRENT DENSITY
NT DECAY RATES
NT DECELERATION
NT DRIFT RATE
NT ELECTRON ACCELERATION
NT ELECTRON FLUX DENSITY
NT ESCAPE VELOCITY
NT EVAPORATION RATE
NT EXHAUST VELOCITY
NT FLOW VELOCITY
NT FLUX (RATE)
NT FLUX DENSITY
NT GROUP VELOCITY
NT HEART RATE
NT HEAT FLUX
NT HIGH ACCELERATION
NT HIGH GRAVITY ENVIRONMENTS
NT HIGH SPEED
NT HYPERSONIC SPEED
NT ILLUMINANCE
NT IMPACT ACCELERATION
NT IRRADIANCE
NT LIGHT SPEED
NT LOADING RATE
NT LOW SPEED
NT LUMINANCE
NT LUMINOUS INTENSITY
NT MAGNETIC FLUX
NT MASS FLOW RATE
NT NEUTRON FLUX DENSITY
NT ORBITAL VELOCITY
NT PARTICLE ACCELERATION
NT PHASE VELOCITY
NT PLASMA ACCELERATION
NT PROPAGATION VELOCITY
NT PULSE RATE
NT RADIAL VELOCITY
NT RADIANCE
NT RADIANT FLUX DENSITY
NT RECOMBINATION COEFFICIENT
NT RESPIRATORY RATE
NT ROTOR SPEED
NT SIGNAL FADING RATE
NT SOLAR CONSTANT
NT SOLAR FLUX
NT SOLAR FLUX DENSITY
NT SOLAR VELOCITY
NT SOLAR WIND VELOCITY
NT SOUND INTENSITY
NT SPIN REDUCTION
NT STRAIN RATE
NT SUBSONIC SPEED
NT SUPERSONIC SPEEDS
NT SYSTOLE
NT TIP SPEED
NT TRANSONIC SPEED
NT TRANSVERSE ACCELERATION
NT WIND VELOCITY
NT ZERO SOUND
The 2400- to 800-B/S LPC (Linear Predictive Coder) rate converter
[AD-A129825] 01 p0070 N84-10456
Temperature dependence of hydrolysis of polyimide wire insulation
[AD-A131334] 02 p0200 N84-11301
Thermal electron heating rate: A derivation
[NASA-TM-85124] 06 p0914 N84-15941
High accuracy gaseous X-ray detectors
[DE84-003677] 07 p1008 N84-16538
Ozone reactions in aqueous solutions: A bibliography
[PB84-109683] 08 p1127 N84-17325
Civilian residential fire fatality rates: Six high-rate states versus six low-rate states
[PB84-102615] 08 p1142 N84-17427
Models of the hard X-ray spectrum of AM Herculis and implications for the accretion rate
[NASA-TM-86045] 08 p1242 N84-18123
Reliability modeling of critical electronic devices
[AD-A135705] 09 p1328 N84-18869
Yield enhancement by fault tolerant systolic arrays (summary) 09 p1402 N84-19158

Is there a speed limit? 18 p2935 N84-28616
A procedure for determining the tempo at which alloys solidify
[BLL-M-35642-(5826.4)] 22 p3553 N84-32497
A strategy for successful deep space information transmission in bad weather 22 p3574 N84-32635
Applique rate converter
[AD-D011161] 23 p3751 N84-33777
Rain rate climatologies over marine regions
[AD-A144066] 23 p3802 N84-34109
Effect of stretch rate on texture and mechanical properties of nickel-cobalt alloys 24 p3869 N84-34521

RATINGS
Differentiated ratings of perceived exertion and selected physiological responses during prolonged upper and lower body exercise
[AD-A134086] 06 p0687 N84-15769
Performance appraisal revisited
[AD-A132641] 06 p0932 N84-16059
Motivation and performance appraisal behavior
[AD-A134311] 08 p1203 N84-17842
An experimental evaluation of the Sternberg task as a workload metric for helicopter Flight Handling Qualities (FHQ) research
[NASA-TM-85884] 10 p1553 N84-20176
Operationalizing halo: Problems with the computation of a standard deviation across dimensions within rates
[AD-A138393] 12 p1867 N84-22164
Personnel technology: Performance appraisal, a process approach
[AD-A138359] 13 p2022 N84-23112
Effects of appraisal salience on immediate and memory-based judgments
[AD-A140334] 16 p2538 N84-26295
A multiple processing resource explanation of the subjective dimensions of operator workload
[AD-A141455] 19 p3070 N84-29480

RATIONAL FUNCTIONS
On complex rational approximation by interpolation at preselected nodes
[AD-A130526] 01 p0131 N84-10855
Rational function frequency extrapolation in ultrasonic tomography
[AD-A131447] 02 p0288 N84-11888
Using comparison-based methods for predicting and designing
[AD-P003364] 18 p2913 N84-28477

RATIONS
Aircraft crew diet in emergency situations 02 p0259 N84-11696
Acceptance of a meal and its components: An exercise in missing data
[AD-P003852] 24 p3940 N84-34938

RATIOS
NT ASPECT RATIO
NT COMPRESSION RATIO
NT DIMENSIONLESS NUMBERS
NT FROUDE NUMBER
NT FUEL-AIR RATIO
NT HIGH ASPECT RATIO
NT LEWIS NUMBERS
NT LIFT DRAG RATIO
NT LOW ASPECT RATIO
NT MACH NUMBER
NT MASS RATIOS
NT POISSON RATIO
NT PRANDTL NUMBER
NT PRESSURE RATIO
NT RAYLEIGH NUMBER
NT REYNOLDS NUMBER
NT RICHARDSON NUMBER
NT SCALE (RATIO)
NT SIGNAL TO NOISE RATIOS
NT STANDING WAVE RATIOS
NT STRESS RATIO
NT THICKNESS RATIO
NT VOID RATIO
Further examination of simulated percentage points
[AD-A130338] 01 p0136 N84-10893
The polarization ratio of crystal monochromators
[AD-A133181] 06 p0847 N84-15524
A numerical investigation of the multiple vortex phenomenon: Vortex number and structure as a function of swirl ratio 06 p0931 N84-16049
Stratospheric tritium sampling
[DE84-006074] 12 p1848 N84-22045
OECD study shows Sweden has highest robot-worker ratio 24 p3892 N84-34848

RATS
Stability of rat brain glutamine synthetase to oxygen toxicity (oxygen at high pressure)
[AD-A131049] 01 p0112 N84-10725
Adaptations to a high fat diet which increase exercise endurance in male rats 04 p0570 N84-13755
Behavioral and prenatal effects of 60-Hz fields
[DE84-001126] 05 p0712 N84-14664
Effects of long-term low-level radiofrequency radiation exposure on rats. Volume 1: Design, facilities, and procedures
[AD-A134079] 06 p0885 N84-15756
Insulin and cortisol improve heat tolerance in isolated perfused rat liver
[AD-A133382] 07 p1042 N84-16758
Effect of periodic accelerations of 5 G on kinetics of erythrocyte hemolysis in white rats 07 p1046 N84-16782
Study of vibration resonance frequencies in rats 07 p1046 N84-16784
Comparative characteristics of erythron reactions to hypoxic hypoxia, immobilization and high-intensity stationary magnetic field 07 p1046 N84-16785
The response of rats to cutaneous dosing with trichothecene mycotoxins
[MRL-R-902] 08 p1197 N84-17803
Morphological and histochemical studies of bone and cartilage during periods of stimulated weightlessness 09 p1354 N84-18847
Biochemical and histochemical adaptations of skeletal muscle to rat suspension 09 p1354 N84-18849
Appropriateness of the small-cage-reared rat as a model for the study of altered-activity effects 09 p1354 N84-18851
Effects of long-term low-level radiofrequency radiation exposure on rats. Volume 3: SAR (Specific Absorption Rate) in rats exposed in 2450-MHz circularly polarized waveguide
[AD-A135376] 09 p1361 N84-18890
Effects of long-term low-level radiofrequency radiation exposure on rats. Volume 4: Open-field behavior and corticosterone
[AD-A137743] 12 p1863 N84-22141
Effects of long-term low-level radiofrequency radiation exposure on rats. Volume 6: Hematological, serum chemistry, thyroxine, and protein electrophoresis evaluations
[AD-A141124] 19 p3063 N84-29434
Rat behavior in selection of negative stimulus: Pain or exposure to electromagnetic field 20 p3255 N84-30657
Ultrastructural alterations in skeletal muscle fibers of rats after exercise
[NASA-TM-76976] 23 p3804 N84-34117
Morphometric and biophysical study of bone tissue in immobilization-induced osteoporosis in the growing rat 23 p3809 N84-34152
Animal models of disuse osteoporosis 23 p3809 N84-34153

RAWINSONDES
Kinematic analysis of Hurricane Frederick (1979) using satellite, aircraft and Rawinsonde data
[NASA-CR-175430] 11 p1685 N84-20988
A statistical evaluation and comparison of VISSR Atmospheric Sounder (VAS) data and corresponding rawinsonde measurements
[NASA-TM-82575] 13 p2016 N84-23071
Severe storm initiation and dvelopment from satellite infrared imagery and Rawinsonde data 24 p3929 N84-34872
Statistical severe storm nowcasting comparison of VAS and Rawinsonde soundings 24 p3930 N84-34878
Statistical structure of convective periods derived from satellite ground based data 24 p3931 N84-34882

RAY ACOUSTICS
U GEOMETRICAL ACOUSTICS

RAY OPTICS
U GEOMETRICAL OPTICS

RAY TRACING
Ray-tracing analysis of electron-cyclotron-resonance heating in straight stellarators
[DE83-013854] 01 p0149 N84-10982
A survey of underwater-acoustic ray tracing techniques
[PB83-250522] 04 p0596 N84-13931
Realization of first order optical systems using thin lenses
[DE84-002848] 05 p0747 N84-14909
Effects of systematic errors on the mixing ratios of trace gases obtained from occulation spectra
[NASA-CR-175371] 08 p1231 N84-18046
Luneburg lens and optical matrix algebra research
[NASA-CR-172276] 08 p1231 N84-18047
Radome analysis
[AD-A136805] 10 p1481 N84-19677
Effective Earth radius for refraction of radio waves at altitudes above 1 km
[AD-A137095] 10 p1482 N84-19683
The vectorization of a ray tracing program for image generation 10 p1561 N84-20231
Vectorization of a penalty function algorithm for well scheduling 10 p1562 N84-20233
Determination of strong ground motion in complex structures using dynamic raytracing
[AD-A138559] 14 p2176 N84-24036
A three-dimensional ray method and its application to the study of wave propagation in crustal structure with curved layers 21 p3439 N84-31821
Ray tracing study of electron cyclotron heating in the TBR 2 Tokamak
[INPE-3192-PRE/556] 21 p3500 N84-32181
The correction of aberrations computed in the aperture plane of multifrequency microwave radiometer antennas
[NASA-TM-86090] 22 p3581 N84-32579
Atmospheric refraction error and its compensation for passive optical sensors
[AD-A144377] 24 p3963 N84-35098
Signal-to-noise ratio for the wide field-planetary camera of the Space Telescope
[NASA-TM-86472] 24 p3963 N84-35235

RAYLEIGH DISTRIBUTION
Vortex shedding and laser ablation
[DE84-000301] 04 p0541 N84-13565
A new technique for measuring metal surface properties at the Rayleigh critical angle
[DE84-001770] 08 p1172 N84-17632
Interpretation of MST radar returns from clear air 17 p2663 N84-27065

RAYLEIGH NUMBER
An investigation of thermal characteristics of plate-in-tube solar receivers 01 p0101 N84-10658
Calculation of natural convection within a heated enclosure using the method of second moments
[DE84-001596] 04 p0535 N84-13517
Experimental study of three-dimensional natural convection at high Rayleigh number
[DE83-011982] 04 p0537 N84-13530
Multiple buoyancy driven flows in a vertical cylinder heated from below
[NASA-CR-173626] 17 p2666 N84-27001

RAYLEIGH SCATTERING
Investigation of the Rayleigh critical angle phenomenon for the characterization of surface properties
[AD-A131530] 03 p0360 N84-12340
Instabilities in cylindrical plasma liners imploded by high magnetic fields
[DE83-013640] 03 p0445 N84-12921
Relation between atmospheric scattering and backscattering coefficient
[DFVLR-FB-83-20] 07 p1075 N84-16989
Empirical background calculation method for multi-channel X-ray spectrometers
[PB84-130475] 09 p1319 N84-18618
On molecular scattering in the terrestrial atmosphere: An empirical formula for its calculation in the homosphere
[AERONOMICA-ACTA-A-284-1984] 20 p3239 N84-30564
Density fluctuations in premixed turbulent flames
[DE84-012055] 21 p3361 N84-31322

RAYLEIGH WAVES
Ultrasonic billet testing equipment for surface defects
[BMFT-FB-T-83-192] 07 p1014 N84-16576
Development of ultrasonic modeling techniques for the study of crustal inhomogeneities
[AD-A134501] 08 p1187 N84-17738
Strong motion effects due to seismic waves in dipping layers
[PB84-127919] 08 p1189 N84-17747
Introduction to acoustic emission
[NASA-TM-77088] 08 p1227 N84-18018
A review study of nondestructive test techniques for residual stresses in aircraft transparencies
[AD-A138930] 13 p1930 N84-22555
Coupling of airborne sound in a sandy soil — containing seismic sensors
[LEOK-TR-1983-09] 13 p2040 N84-23238
Anisotropic models of the upper mantle
[NASA-CR-173549] 16 p2521 N84-26182
Acoustic surface wave applications 18 p2918 N84-28503
Application of measurements of the propagation velocity of ultrasonic Rayleigh waves to surface inspection of materials
[CETIM-15-H-417] 21 p3416 N84-31662
The shear wave velocity structure of the lithosphere in central and northern California 23 p3795 N84-34063

RAYLEIGH-BENARD CONVECTION
NT BENARD CELLS

RAYLEIGH-RITZ METHOD
Delamination growth in composite structures under inplane compression loading 01 p0036 N84-10224
Comment on the energy variation method
[CSIR-TWISK-293] 07 p1059 N84-16862

RAYS
Ray trajectories in stochastic media with linear dependence of deterministic velocity component on depth 17 p2702 N84-27211

RC CIRCUITS
Precision clock generators in Ta thin film technology
[BMFT-FB-T-84-073] 19 p3019 N84-29144
RC NETWORKS
U RC CIRCUITS
RCA SATCOM SATELLITES
RCA SATCOM battery in orbit performance update and accelerated life test results 23 p3736 N84-33691
RDX
Feasibility demonstration of booster cross-over system for 3 1/2 inch SRB/MLP frangible nut system
[NASA-CR-170895] 01 p0029 N84-10182
Thermophysical property determination using transient techniques
[AD-A130707] 01 p0156 N84-11027
Microstructural origins of hot spots in RDX explosive and several reference inert materials
[AD-A132056] 03 p0357 N84-12325
Organometallics in high energy chemistry
[AD-A135715] 09 p1275 N84-18323
CARS studies of nitramine LOVA propellant combustion 13 p1951 N84-22683
REACTANCE
Reduced electric reactance for electric arc furnace
[BMFT-FB-T-83-303] 15 p2328 N84-24976
REACTION
Heart rhythm changes in response to sensorimotor load of varying complexity 21 p3452 N84-31908
REACTION BONDING
Development of reaction-bonded silicon carbide (SiSiC)-ceramics
[JUEL-1873] 18 p2819 N84-27901
Comparative studies of vapor and liquid-phase impregnation of porous silicon nitride and silicon carbide materials
[DE84-012667] 21 p3359 N84-31309
Use of surface and thin film analysis techniques to study metal-organic and metal-polymer interaction
[DE84-012542] 21 p3361 N84-31321
REACTION JETS
U JET FLOW
U JET THRUST
REACTION KINETICS
The dicyandiamide cure of SP-250 epoxy resin accelerated by monuron
[AD-A129667] 01 p0050 N84-10320
Kinetic studies of the reactions of CH3O2 with NO2 and OH with HNO3
[AD-A130922] 01 p0105 N84-10685
A review of research in chemical-acoustic coupling
[AD-A129696] 01 p0140 N84-10915
Coulomb explosion and recent methods for studying molecular decomposition
[DE83-012348] 01 p0142 N84-10933
Quasielastic reactions
[DE83-014616] 01 p0144 N84-10947
What can be learned with fast neutrons?
[DE83-015783] 01 p0144 N84-10948
Effect of molecular-structural characteristics of cis-1,4 polyisoprene on the melting temperature of the orientated crystaline phase
[CSIR-TRANS-1643] 01 p0152 N84-10999
The reciprocal influence of functional groups in substitution reactions on the diamond surface
[CSIR-TRANS-1685] 01 p0152 N84-11000
Synthesis of perfluoroalkylene dianilines
[NASA-CR-168004] 02 p0189 N84-11228
Higher order numerical simulations of the Knudsen layer
[AD-A131538] 02 p0190 N84-11234
Kinetics of structural relaxation in metallic glasses
[DE83-015924] 02 p0201 N84-11309
NASA redox storage system development project, calendar year 1982
[NASA-TM-83469] 02 p0241 N84-11579
The development and implementation of techniques to determine the concentrations of environmental pollutants arising from energy production
[DE83-015386] 02 p0244 N84-11599
Kinetics of solid-phase crystallization in ion-implanted and deposited amorphous-silicon films
[DE83-015499] 02 p0300 N84-11967
Chemiluminescence and laser induced fluorescence of boron atom reactions
[AD-A131709] 03 p0360 N84-12471
Ukrainian Physics Journal (selected articles)
[AD-A131087] 03 p0429 N84-12814
Studies of the correlation of electrode kinetics with molecular structure
[AD-A131704] 03 p0433 N84-12838
Statistical calculation of complete events in medium-energy nuclear collisions
[DE83-015951] 03 p0434 N84-12847
The possibility of amplifying infrared radiation by high-pressure reacting gas
[AD-A131066] 03 p0440 N84-12890
Intumescent reaction mechanisms: An analytic model
[AD-A132586] 04 p0491 N84-13225
CI: A computer program for calculation of contact indexes which will correct reaction rates evaluated by mean quantities during simulation of turbulent combustion
[DE84-001000] 04 p0494 N84-13244
Surface science study of selective ethylene epoxidation catalyzed by the Ag(110) surface: Structural sensitivity
[DE84-001324] 04 p0494 N84-13246
A comment on the plateau combustion mechanism of the double-base propellants
[AD-A132551] 04 p0509 N84-13333
International Meeting on Lithium Batteries
[AD-A132371] 04 p0525 N84-13455
Investigation of the dynamics and threshold behavior of endothermic negative ion-neutral reactions
[DE84-001369] 04 p0602 N84-13975
Turbulent mixing and combustion of multi-phase reacting flows in ramjet and ducted rocket environment
[AD-A133802] 05 p0632 N84-14152
Structure and phase transitions in bromine and potassium-mercury intercalated graphite
[AD-A133863] 05 p0645 N84-14244
Fundamental combustion and diagnostics research at Sandia
[DE84-001767] 05 p0651 N84-14280
Elementary reactions of NH2 radicals in the gas, phase 3
[MPIS-2/1983] 05 p0652 N84-14285
Chemical modification of chemisorptive and catalytic properties of nickel
[DE84-002046] 05 p0655 N84-14308
Shock tube study of the ignition and combustion of aluminum
[AD-A134035] 05 p0661 N84-14345
Calculation of performance of an RF-excited transverse flow CO2 laser
[DFVLR-FB-83-06] 05 p0687 N84-14514
Chemical kinetics modeling of engine knock: Preliminary results
[DE84-001236] 06 p0802 N84-15226
Potentiostatic investigation of the kinetics of the breakdown of the passivity of aluminium in aqueous medium
[BLL-OA-TRANS-3066-(6196.3)] 06 p0804 N84-15238
Precipitation of metals from solutions by baser metals
[CSIR-1712] 06 p0804 N84-15242
LARC: Computer codes for Lagrangian analysis of stress-guage data to obtain decomposition rates through correlation to thermodynamic variables
[DE84-002404] 06 p0813 N84-15292
Kinematics of the structure and morphology during surface reactions between transition metals and molecular hydrogen 06 p0816 N84-15317
Use of scanning electron microscopy in studying surface reactions of metals with hydrogen 06 p0816 N84-15318
Optical diagnostics for condensed-phase shock-compressed molecular systems
[DE84-001172] 06 p0845 N84-15510
Electron-electron interactions and broken symmetry in one dimension
[DE84-001704] 06 p0925 N84-16014
Atomic oxygen effects on materials 06 p0929 N84-16036
Some aspects of mathematical and chemical modeling of complex chemical processes
[NASA-TM-77055] 07 p0969 N84-16279
Photoenhancement of gas-solid reactions by surface excitation — ultraviolet irradiation
[DE84-003106] 07 p0972 N84-16299
Agglomeration in suspension
[WTHD-160] 07 p0973 N84-16305
Electrochemical kinetics in stress-corrosion cracks
[DE84-002855] 07 p0976 N84-16323
Amorphous zirconium-nickel films formed by solid state reactions
[DE84-003570] 07 p0976 N84-16326
ECUT: Energy Conversion and Utilization Technologies program. Chemical Processes project report, FY 1982
[NASA-CR-173212] 07 p1025 N84-16642
Effect of periodic accelerations of 5 G on kinetics of erythrocyte hemolysis in white rats 07 p1046 N84-16782
Chemical and electrochemical properties in molten alkaline hydroxides
[BLL-RISLEY-TR-4854-(9091.9F)] 08 p1123 N84-17298
Excited state kinetics of mercury halides and mixtures with N2 and Xe
[AD-A135432] 08 p1124 N84-17310
Technique for the rapid generation of OH radicals behind shock waves and its application to the study of combustion kinetics
[DE84-003183] 08 p1126 N84-17317
Ozone reactions in aqueous solutions: A bibliography
[PB84-109883] 08 p1127 N84-17325
Applications of solvent extraction in hydrometallurgy
[BLL-OA-TRANS-3162-(6196.3)] 08 p1128 N84-17334
The electrochemical behaviour of titanium platinum alloys in anodic oxidation processes. 1: Kinetics and selectivity of the process of the combined formation of O2, H2S2O8 and O3 on the titanium-platinum alloy
[BLL-OA-TRANS-3093-(6196.3)] 08 p1128 N84-17336
Method and apparatus for the rapid determination of gases, oxygen in particular, and of the combined forms in which they are present in metals
[BLL-OA-TRANS-3127-(6196.3)] 08 p1129 N84-17340
Correlation of yield stress changes in 316 stainless steel irradiated with high-energy and fission neutrons
[DE84-002115] 08 p1133 N84-17368
Potassium perchlorate reaction with pyrotechnic fuels
[DE84-002840] 08 p1140 N84-17413
Threshold kinetics of a solar-simulator-pumped iodine laser
[NASA-TP-2241] 08 p1163 N84-17575
Fatigue-induced and time-dependent changes in thermomechanical properties of hybrid composite laminates
[PB84-126333] 09 p1277 N84-18336
Development of a prototype experiment for treating CELSS and PCELSS wastes to produce nutrients for plant growth
[NASA-CR-173167] 09 p1277 N84-18341
Second All-Union Seminar on Hydromechanics and Heat-Mass Transfer in Weightlessness. Abstracts of reports: Table of contents
[NASA-TM-77534] 09 p1312 N84-18576
Assessment of acid rain on leaching of elements from Delaware soils into groundwater
[PB84-120649] 09 p1343 N84-18770
Metal-support interactions: Their effects upon adsorption, electronic, and activity/selectivity properties of cobalt in CO hydrogenation
[DE83-013012] 10 p1457 N84-19516
Intercalation compounds: A new class of materials as advanced solid lubricants (wear life studies and differential thermal analysis)
[AD-A137424] 10 p1466 N84-19576
On the theory of electron, h-atom and proton transfers
[AD-A137511] 10 p1577 N84-20330
Spectroscopy of surface adsorbed molecules
[DE84-005254] 10 p1589 N84-20417
Elastic theory of the defect solid solution
[DE84-001976] 10 p1590 N84-20418
Fast algorithms for combustion kinetics calculations: A comparison 11 p1612 N84-20554
Kinetic mechanisms for premixed, laminar, steady state methane/air flames
[AD-A137263] 11 p1629 N84-20658
Chemistry and application of ozone and ozone/UV light for water reuse-2
[PB84-140557] 11 p1630 N84-20664
Barriers to the migration of interphase boundaries
[AD-A137902] 11 p1633 N84-20679
Shearing stability of lubricants
[NASA-TM-77435] 11 p1636 N84-20697
Electronic spectra of condensed phase under shock conditions
[AD-A137531] 11 p1652 N84-20785
Spectroscopic studies of the products of the reactions of excited noble-gas atoms
[AD-A137750] 11 p1730 N84-21284
Study of the effect of adsorbed ions on the electrosorption of organic molecules and the kinetics of formation of condensed films
[AD-A137892] 11 p1730 N84-21286
Influence of aging in martensite state on mechanical properties of Cu-Al-Zn system Beta-alloy 12 p1784 N84-21641
Simulation of the ignition of a mixture of hydrogen and oxygen
[PML-1983-34] 12 p1790 N84-21676
Shock tube study of the fuel structure effects on the chemical kinetic mechanisms responsible for soot formation
[NASA-CR-174661] 12 p1790 N84-21677
Applications of laser scattering probes to turbulent diffusion flames
[AD-A138207] 12 p1792 N84-21685
High-temperature oxidation of alpha nickel-silicon. 1: Reaction kinetics; thermogravimetry
[MRL-R-887] 12 p1796 N84-21717
ECUT: Energy Conversion and Utilization Technologies program. Heterogeneous catalysis modeling program concept
[NASA-CR-173463] 12 p1842 N84-22012

Numerical modeling of D-mappings with applications to chemical kinetics
[NASA-TM-84332] 12 p1893 N84-22326
Investigations of the structure and electromagnetic interactions of few body systems
[DE84-006852] 12 p1902 N84-22388
Nitramine propellant ignition under rapid gas loading conditions 13 p1950 N84-22677
Kinetics of the Beta + Delta phase transformation of HMX 13 p1951 N84-22681
Modeling the self-deflagration of HMX
13 p1951 N84-22682
Three-dimensional, primitive-variable model for solid-fuel ramjet combustion 13 p1952 N84-22688
Theoretical influence of the deposition conditions on the uniformity of boron carbide coatings
13 p1954 N84-22707
Three-dimensional, primitive-variable model for solid-fuel ramjet combustion
[AD-A138756] 13 p1956 N84-22715
Utility of surface reaction entropies for examining reactant-solvent interactions at electrochemical interfaces. Ferricinium-ferrocene attached to platinum electrodes
[AD-A139055] 13 p1957 N84-22722
Investigations of radical-radical reactions using a far infrared Laser Magnetic Resonance (Fir-LMR) spectrometer
[MPIS-4/1983] 13 p1958 N84-22730
Characterization of zirconium alloy oxidation films by alternating current impedence
[DE84-006225] 13 p1965 N84-22766
Resistance characterization of nickel sulfide electrodes in LiCl-containing molten salt electrolytes
[DE84-006734] 13 p1987 N84-22898
Kinetic studies of atmospheric reactions of OH radicals 13 p2012 N84-23050
Kinetics and products of the reaction OH + HNO3
13 p2012 N84-23051
Intramolecular electron transfer at metal surfaces. 3: Influence of bond conjugation on reduction kinetics of Cobalt (3) anchored to metal surfaces via thiophenecarboxylate ligands
[AD-A139066] 13 p2041 N84-23242
Primary patterns of electronically excited molecules in the gas phase 2
[MPIS-9/1983] 13 p2041 N84-23245
An experimental estimate of the electron-tunneling distance for some outer-sphere electrochemical reactions
[AD-A139049] 13 p2047 N84-23284
Thermodynamics and kinetics of the gas phase and pack aluminide coating formation on iron and steel
13 p2049 N84-23291
The reaction NH2 + PH3 yields NH3 + PH2: Absolute rate constant measurement and implication for NH3 and PH3 photochemistry in the atmosphere of Jupiter
[NASA-TM-85063] 13 p2072 N84-23430
A model for reaction rates in turbulent reacting flows
[NASA-TM-85746] 14 p2110 N84-23650
Kinetics of chromium ion absorption by cross-linked polyacrylate films
[NASA-TM-83661] 14 p2118 N84-23693
Cathodic stripping voltammetry of thioamides on a rotating silver disk electrode
[AD-A139200] 14 p2122 N84-23718
Photosynthetic water splitting, phase 1
[DE84-006847] 14 p2124 N84-23729
Research and research needs in colloidal interactions
[PB84-161231] 14 p2124 N84-23731
O-atoms yields from microwave discharges in N2O/Ar mixtures
[AD-A130429] 14 p2137 N84-23808
Development of silicon nitride gas turbine components, phase 2
[BMFT-FB-T-83-322] 15 p2262 N84-24591
CO + H/sub 2 reaction over nitrogen-modified iron catalysts
[DE84-009046] 15 p2288 N84-24727
Mechanistic studies related to the metal catalyzed reduction of carbon monoxide to hydrocarbons
[DE84-007983] 15 p2288 N84-24729
Experimental study and modeling of the kinetics of hydrocarbon combustion 15 p2292 N84-24754
A study of the fundamental problems of combustion in the combustion chambers of turbojets using a tubular reactor 15 p2293 N84-24759
Isothermal calorimetric investigation of a reversible reaction in rapidly solidified Fe40Ni40B20
[DE84-006013] 15 p2298 N84-24791
H Division materials physics
[DE84-007789] 15 p2304 N84-24826
Grain refinement of commercial aluminum by niobium and zirconium additions to the melt
15 p2307 N84-24841
Acidification of rain by the oxidation of dissolved SO2 and the absorption of HNO3
[PB84-168366] 15 p2367 N84-25200
Topics in finite time thermodynamics
[DE84-009057] 15 p2416 N84-25502
Direct simulations of chemically reacting turbulent mixing layers
[NASA-CR-174640] 16 p2450 N84-25710
Unsteady combustion of composite fuel droplets
[ONERA-NT-1983-3] 16 p2462 N84-25781
Numerical simulation of a three-dimensional chemical laser flow field including radiation produced by laser induced fluorescence 16 p2498 N84-26026
Ostwald ripening, interfacial energies and diffusion coefficients in monotectic systems
17 p2613 N84-26727
Prediction of thermal rate constants for combustion reaction
[AD-A140736] 17 p2619 N84-26760
Elementary processes in the catalytic combustion of methane (mechanism, intermediates and controlling reactions)
[PB84-181965] 17 p2620 N84-26770
Kinetics of corrosion of alloys of vanadium-chromium system in phosphoric acid
[BLL-M-35560-(5828.4)] 17 p2621 N84-26771
Volatilization-excitation phenomena and efficiency of spectrochemical buffers in the analysis of geological samples. 1: The action of the mixture Li2CO3 graphite
[JEN-555] 17 p2729 N84-27369
Sensitivity analysis of predicted reacting flow characteristics in solid fuel ramjet combustors
[AD-A141279] 18 p2796 N84-27740
Model catalytic studies using metal single crystals
[DE84-010267] 18 p2812 N84-27850
Reaction kinetics in glass melts. Corrosion of SiO-2. TEXUS 4 project 18 p2819 N84-27900
Ionic reactions in the Earth's upper atmosphere
[AD-A141185] 18 p2880 N84-28263
Physical models and numerical methods of the reactor dynamic computer program RETRAN
[OEFZS-4272] 18 p2931 N84-28587
The effect of solidification rate on morphological stability 18 p2936 N84-28620
New approaches to the synthesis of novel organosilanes
[AD-A141803] 19 p2985 N84-28913
Mechanism and kinetics of the oxidation of the iodide ion by oxygen
[BLL-CE-TRANS-8005-(9022.09)]
19 p2987 N84-28924
Photochemical oxidation of hydrogen iodide by oxygen
[BLL-CE-TRANS-7988-(9022.09)]
19 p2987 N84-28926
Investigation of the kinetics of catalyzed combustion of fuel
[AD-A142153] 19 p2989 N84-28939
Chemical mechanisms and reaction rates for the initiation of hot corrosion of IN-738
[NASA-TP-2319] 19 p2992 N84-28958
Hydrogen storage in the form of metal hydrides
[NASA-TM-77453] 19 p3050 N84-29356
Contribution to the low temperature study of MOS transistors (10K-77K)
[ENST-83E017] 19 p3113 N84-29781
The transfer of atoms, ions and molecular groups in solution. Part 3: Monte Carlo methods for the evaluation of rate constants
[AD-A142335] 20 p3147 N84-29983
The prediction of electrochemical reactivities from contemporary theory: Some comparisons with experiment
[AD-A142406] 20 p3147 N84-29985
The reliability of standard rate constants for rapid electrochemical reactions
[AD-A142445] 20 p3148 N84-29989
Electrochemical activation parameters for surface-attached reactants evaluation of unimolecular frequency factors for representative ligand-bridged reactions
[AD-A142483] 20 p3148 N84-29990
Modeling chemical kinetic aspects of engine knock
[DE84-009874] 20 p3198 N84-30312
Plasma in diverter during intense recycling
20 p3288 N84-30677
Computational Methods: 1984 JPM Specialist Session
[AD-A142923] 21 p3354 N84-31276
Exponential-fitted methods for integrating stiff systems of ordinary differential equations: Applications to homogeneous gas-phase chemical kinetics
21 p3355 N84-31279
A comparison of the efficiency of numerical methods for integrating chemical kinetic rate equations
21 p3355 N84-31280
Models for calculating reaction rates in turbulent, reacting flows 21 p3355 N84-31281
Kinetics of complexation of the macrocycles 18C6 and 12C4 ethers with LiAsF-6 in 1,2-dimethoxyethane at 25 deg C
[AD-A143086] 21 p3359 N84-31304
Stretch effects in plane premixed hydrogen-air flames
[DE84-012035] 21 p3360 N84-31311
Chemical kinetics in hydrogen-air flames
[DE84-011002] 21 p3361 N84-31323
Dehydration of aluminum chloride hexahydrates: A technical assessment
[DE84-013066] 21 p3362 N84-31328
Study of the kinetics of hydrogenation using aged catalysis
[DE84-006588] 21 p3362 N84-31330
Laser Induced Chemistry. 1984 JPM Specialist Session
[AD-A142922] 21 p3372 N84-31400
Laser induced polymerization reactions in solid propellant binders 21 p3373 N84-31403
Disappearance rates of C2(a 3 Pi u) and C2(X 1 Sigma g +) with O2 over the temperature range 298-1300 deg K 21 p3373 N84-31405
Conditions of filtration burning of porous condensed systems with multiple passage of reaction wave
21 p3483 N84-32078
The selective epoxidation of ethylene catalyzed by silver: Mechanistic details revealed by single-crystal studies
[DE84-009987] 21 p3506 N84-32215
GCKP84-general chemical kinetics code for gas-phase flow and batch processes including heat transfer effects
[NASA-TP-2320] 22 p3546 N84-32446
A comprehensive chemical kinetic reaction mechanism for the oxidation of n-butane
[DE84-005739] 22 p3549 N84-32467
Solid-phase reaction of dispersed graphitized material with aluminium and nickel
[BLL-M-35633-(5828.4)] 22 p3551 N84-32482
On-site measurement of the speed of corrosion of a metal in water
[BLL-T6310/BG/WH770/84] 22 p3552 N84-32488
Topochemical reactions and the Stefan problem
[BLL-M-35671-(5828.4)] 22 p3553 N84-32501
Diamond synthesis from various graphites
[CSIR-TRANS-1749] 22 p3558 N84-32528
Technique for measuring gas conversion factors
[NASA-CASE-LAR-13220-1] 22 p3598 N84-32786
Wafer-scale laser pantography. Part 6: Direct-write interconnection of VLSI gate arrays
[DE84-012676] 22 p3601 N84-32815
Composition alteration of stratospheric air due to sampling through a flow tube: Environmental research papers
[AD-A143319] 22 p3623 N84-32959
Chemical reactions, radiative and energy transfer processes of important atmospheric species
[AD-A143264] 22 p3653 N84-33156
Chemical reaction dynamics at surfaces
22 p3681 N84-33340
Vacuum recycling effect on minor elements in superalloys 23 p3704 N84-33481
The effect of recycling on cast structures and the internal character of IN100 alloy: A laboratory study
23 p3705 N84-33485
Certain metallurgical properties of laser welding
23 p3710 N84-33517
The oxidation of hydrazine by nitric acid
[DE84-015063] 23 p3715 N84-33547
Unsteady heat transfer during the interaction of a laminar flame with a cold wall 23 p3745 N84-33739
A simple DWBA (Franck-Condon) treatment of H-atom transfers between two heavy particles
[AD-A143867] 23 p3822 N84-34236
Carbide phases in high-temperature nickel-hafnium alloys 24 p3871 N84-34532
Influence of nitrogen-hydrogen-containing media on heat resistance properties of nickel-based alloys
24 p3877 N84-34570
The undercooling of liquids 24 p3881 N84-34590
Laser control of chemical reactions
[AD-A144359] 24 p3908 N84-34758

REACTION PRODUCTS

Products from the detonation of trinitrotoluene in air and nitrogen
[AD-A137809] 11 p1639 N84-20713
Spectroscopic studies of the products of the reactions of excited noble-gas atoms
[AD-A137750] 11 p1730 N84-21284
Primary patterns of electronically excited molecules in the gas phase 2
[MPIS-9/1983] 13 p2041 N84-23245
Experiments on water/melt explosions, nature of products, and models of dispersal
13 p2061 N84-23483
Transient photochemistry of neutral red
[AD-A131564] 18 p2610 N84-27839

Transport phenomena in improved electrochemical cell design for the production of magnesium
[DE84-006436] 19 p2995 N84-26978

REACTION RATE
U REACTION KINETICS

REACTION TIME
Effects of head impact acceleration on human performance: Overview and preliminary battery identification
[AD-A130266] 01 p0116 N84-10754
Application of solidification theory to rapid solidification processing
[AD-A134132] 05 p0653 N84-14291
Rapid solidification processing and powder metallurgy of Al alloys
[AD-A133673] 06 p0806 N84-15250
Binary classification and the subtractive approach
[AD-A137716] 11 p1701 N84-21099
Computer simulated development of a command to Line-of-Sight missile using on-off control
[AD-A140041] 15 p2280 N84-24697
A consideration on the capability of receiving character-information
[NHK-SERIAL-294] 15 p2417 N84-25511

REACTION WHEELS
BAe reaction wheels for Olympus — Olympus telecommunication satellite 09 p1297 N84-18475

REACTIVITY
Development of alternate silicone potting compounds. Volume 11: Influences of temperature, material variables and composition variables on the properties of substitute potting compounds
[DE83-013025] 01 p0051 N84-10326
Prediction of turbulent reactive flow 15 p2293 N84-24762
The influence of lattice imperfections on the chemical reactivity of solids. The growth and perfection of TNT (trinitro-toluene) single crystals
[AD-A140408] 16 p2560 N84-26425

REACTOR CHEMISTRY
U RADIOCHEMISTRY

REACTOR CORES
Neutronic and thermal design considerations for heat-pipe reactors
[DE83-012690] 01 p0145 N84-10954
Disparate changes in the physical properties of graphite
[DE83-015986] 03 p0357 N84-12321
Relationships between strength, electrical conductivity, and density for oxidized PGX graphite
[DE83-016184] 04 p0507 N84-13325
Thermohydraulics of LMFBR core catchers — fluid metal fast breeder reactors (LMFBR) 06 p0843 N84-15500

REACTOR DESIGN
Tokamak fusion reactors with less than full tritium breeding
[DE83-016711] 03 p0446 N84-12936
Summary of the MARS tandem-mirror reactor design
[DE83-017293] 03 p0447 N84-12939
Nuclear design of a very-low-activation fusion reactor
[DE83-017470] 03 p0448 N84-12949
Constraints on the scale of toroidal-fusion experiments with application to the design of a helical-axis stellarator
[DE83-016812] 03 p0449 N84-12950
Space reactor system and subsystem investigations: Assessment of technology issues for the reactor and shield subsystem, SP-100 Program
[DE84-001566] 04 p0603 N84-13979
Plasma/neutral gas transport in divertors and limiters
[DE84-001594] 04 p0611 N84-14034
Fusion reactors: Physics and technology
[DE83-017148] 08 p1232 N84-18055
Research on modeling of FED/INTOR radio-frequency heating and studies of FED/INTOR impurity-control mechanisms
[DE83-016756] 08 p1233 N84-18056
Conceptual design of the RFC reactor
[IPPJ-659] 11 p1733 N84-21304
The 100 GHz, 1 MW, CW gyrotron study program
[DE84-005751] 12 p1813 N84-21819
Heavy ion fusion reactor HIBLIC-1. Conceptual design of heavy ion fusion reactor
[IPPJ-663] 12 p1909 N84-22436
Thermal laminarization of a stratified pipe flow
[DE84-006407] 20 p3185 N84-30236
Modeling the interaction of high power ion or electron beams with solid target materials
[DE84-009126] 20 p3296 N84-30931
Liquid metal breeder-coolant blanket concept
[DE84-006554] 20 p3302 N84-30971
The Shock and Vibration Digest, volume 16, no. 7
[AD-A143958] 21 p3418 N84-31679
Literature review of tilting pad and turbulent hydrostatic journal bearings for nuclear main coolant pumps 21 p3418 N84-31680
Space reactor fuels performance and development issues
[DE84-011414] 21 p3497 N84-32164

REACTOR FUELS
U NUCLEAR FUELS

REACTOR MATERIALS
Fusion materials irradiation test facility test-cell instrumentation
[DE83-012823] 01 p0085 N84-10552
Developmental techniques for ultrasonic flaw detection and characterization in stainless steel
[DE83-014282] 01 p0092 N84-10601
Environmental crack-growth-measurement techniques
[DE83-900734] 01 p0097 N84-10630
The space nuclear reactor program
[GPO-22-828] 02 p0185 N84-11204
Tensile behavior of three commercial ferritic steels after low-temperature irradiation
[DE83-014044] 02 p0195 N84-11264
Elastic-plastic constitutive modeling of concrete
[DE83-014547] 02 p0206 N84-11342
Miniature charpy-impact test results for the irradiated ferritic alloys HT-9 and modified 9Cr-1Mo
[DE83-016935] 03 p0354 N84-12300
Disparate changes in the physical properties of graphite
[DE83-015986] 03 p0357 N84-12321
Investigation of inhomogeneity in ceramic reactor materials using laser-localized emission spectroscopy
[JUEL-1834] 03 p0357 N84-12323
Creep and tensile properties of alloy 800H-Hastelloy X weldments
[DE83-017067] 03 p0390 N84-12542
Real-time attenuation of heated optical fibers in a nuclear reactor
[DE83-015141] 03 p0438 N84-12873
Tokamak fusion reactors with less than full tritium breeding
[DE83-016711] 03 p0446 N84-12936
Monte Carlo calculations of neutron and gamma-ray energy spectra for fusion-reactor shield design: Comparison with experiment
[DE83-016932] 03 p0449 N84-12956
Chemical erosion of first-wall materials by atomic hydrogen at high temperatures
[DE83-017161] 03 p0450 N84-12962
Tensile and low-cycle fatigue measurements on cross-rolled tungsten at 1505 K
[DE84-000605] 04 p0499 N84-13273
Structures and properties of rapidly solidified 9Cr-1Mo steel
[DE84-001276] 04 p0499 N84-13276
Comparison of compression properties and swelling of beryllium irradiated at various temperatures
[DE84-000597] 04 p0500 N84-13277
Grain boundary segregation and environmental degradation of a ferritic stainless steel
[DE83-016927] 04 p0502 N84-13289
Modeling crack-growth processes in fusion-reactor materials
[DE84-000477] 04 p0502 N84-13291
Influence of a flowing-lithium environment on the fatigue and tensile properties of type 316 stainless steel
[DE84-000611] 04 p0503 N84-13295
Relationships between strength, electrical conductivity, and density for oxidized PGX graphite
[DE83-016184] 04 p0507 N84-13325
Comparison of measured and calculated helium production in nickel using newly evaluated neutron cross sections for (59)Ni
[DE84-000565] 04 p0611 N84-14035
Initiation and propagation of stress-corrosion cracking of Alloy 600 in high-temperature water — Inconel tubing
[DE84-000623] 07 p0975 N84-16316
In-reactor creep behavior of selected ferritic alloys
[DE83-017005] 07 p0976 N84-16322
Mechanical properties of types 304 and 316 stainless steel after long-term aging and exposure
[DE84-003325] 07 p0976 N84-16327
Reactor pressure vessel steels ASME SA 533B and SA508.C1.2: Microstructural investigations — heat treatment effects
[VTT-RR-219] 07 p0977 N84-16333
Improved swelling resistance for PCA austenitic stainless steel under HFIR irradiation through microstructural control
[DE84-003203] 08 p1133 N84-17370
Modification of alloy surface composition by segregation processes as a means of impurity control in fusion devices
[DE84-003645] 08 p1134 N84-17373
Effects of pulsed and/or dual ion irradiation on microstructural evolution in a Ti and Si modified Austenitic alloy
[DE84-003411] 08 p1134 N84-17374
Temperature aspects of pulsed ion bombardment in an austenitic alloy
[DE84-003362] 08 p1134 N84-17376
The Shock and Vibration Digest, volume 15, no. 9
[AD-A134750] 08 p1168 N84-17609
Leakage flow-induced vibrations of reactor components 08 p1168 N84-17611
A new technique for measuring metal surface properties at the Rayleigh critical angle
[DE84-001770] 08 p1172 N84-17632
Corrosion and oxidation of vanadium-base alloys
[DE84-003266] 09 p1285 N84-18393
The neutron induced embrittlement of reactor pressure vessel steels and ferritic alloys
[AD-B080746] 15 p2295 N84-24770
Prediction of ductile crack growth in the austenitic steel WN 1.4948 at ambient and elevated temperature
[REPT-5011202-81-2] 17 p2625 N84-26799
Experimental verification of constitutive equations for creep and the interaction of creep and plasticity under biaxial loading conditions
[REPT-5011202-81-3] 17 p2625 N84-26800
Corrosion behavior of experimental Ni-Cr-Mo-W-Al-Ti-Zr-C alloys in simulated advanced-HTGR helium
[DE84-010487] 18 p2814 N84-27867
Helium effects on the swelling of steels
[DE84-008989] 18 p2815 N84-27871
Ultrasonic techniques for the inspection of nuclear components
[BLL-RISLEY-TR-4905-(8091.9F)] 18 p2850 N84-28098
Theoretical calculations of pressure vessel failure frequencies for Sizewell B transients
[AERE-R-11196] 18 p2854 N84-28125
Transmutation of manganese: Substituted steels in STARFIRE
[DE84-010402] 20 p3155 N84-30035
Method of enhancing selective isotope desorption from metals
[DE84-011031] 20 p3156 N84-30044
Heat pipe technology issues
[DE84-011384] 20 p3187 N84-30248
Flow Induced Vibration Program at Argonne National Laboratory
[DE84-009233] 20 p3187 N84-30249
Qualifications of ultrasonic testing for nuclear inservice inspection applications
[DE84-011899] 20 p3200 N84-30323
Some scoping experiments for a space reactor
[DE84-009101] 20 p3298 N84-30941
Effective thermophysical and elastic properties of materials with voids
[DE84-013942] 22 p3549 N84-32465
Fatigue behavior at 650 deg of 20 percent-cold-worked type 316 stainless steel irradiated at 550 deg C in the HFIR
[DE84-014269] 23 p3718 N84-33572
A modified tritium trick technique for doping vanadium alloys with helium
[DE84-014267] 23 p3720 N84-33581
Effect of dose rate on the microstructure of CW 316 SS
[DE84-780403] 24 p3885 N84-34614

REACTOR PHYSICS
Vectorized Monte Carlo methods for reactor lattice analysis 10 p1559 N84-20216

REACTOR SAFETY
Safety and protection for large-scale superconducting magnets. A FY 1982 report
[DE83-012961] 01 p0154 N84-11013
The space nuclear reactor program
[GPO-22-828] 02 p0185 N84-11204
Los Alamos mini-review. Numerical calculations of hydrogen-air combustion
[DE83-016506] 02 p0191 N84-11240
Simplified methods for the inelastic analysis of stiffened shells
[DE83-016518] 02 p0232 N84-11525
An approach to modeling of human performance for purposes of probabilistic risk assessment
[DE83-009292] 02 p0269 N84-11764
Hydrogen-air detonations
[DE83-009289] 03 p0350 N84-12278
Development in reliability models and methods
[DE83-014683] 03 p0385 N84-12511
Space nuclear safety program
[DE83-014070] 03 p0437 N84-12869
Real-time attenuation of heated optical fibers in a nuclear reactor
[DE83-015141] 03 p0438 N84-12873
Assessment of TRAC-PF1 and RELAP5/MOD1 codes with GE large-vessel blowdown test
[DE83-015364] 03 p0438 N84-12874

Hazards Control Department annual technology review, 1982
[DE83-015598] 03 p0439 N84-12883
Studies on sodium boiling phenomena in out of pile rod bundles for various accidental situations in Liquid Metal Fast Breeder Reactors (LMFBR) experiments and interpretations 06 p0842 N84-15493
Temperature distributions, boiling and dry-out behind local blockages — liquid metal fast breeder reactors (LMFBR) 06 p0843 N84-15495
Sodium boiling experiments in bundle geometries under fast transient and steady state conditions — fast breeder reactor safety analysis 06 p0843 N84-15496
Thermohydraulics of LMFBR core catchers — liquid metal fast breeder reactors (LMFBR) 06 p0843 N84-15500
Space nuclear safety program, April 1983
[DE84-002325] 07 p1074 N84-16978
Space nuclear safety program, May 1983
[DE84-002324] 07 p1074 N84-16979
Space nuclear safety program, June 1983
[DE84-003555] 07 p1074 N84-16980
Space Nuclear Safety Program, March 1983
[DE84-002259] 07 p1074 N84-16981
Torsional ultrasonic technique for reactor vessel liquid level measurement
[DE84-003357] 08 p1228 N84-18024
SP-100 program: Space reactor system and subsystem investigations
[DE84-003217] 08 p1231 N84-18045
Robotics at Savannah River
[DE84-003482] 11 p1712 N84-21158
Reliability analysis using network simulation
[DE84-006990] 12 p1904 N84-22397
Space Nuclear Safety Program, September 1983
[DE84-007989] 14 p2224 N84-24344
Reporting of indication data
[FOA-C-30352-E] 15 p2407 N84-25446
Ultrasonic techniques for the inspection of nuclear components
[BLL-RISLEY-TR-4905-(9091.9F)] 18 p2850 N84-28098
Digital rotation measurement unit
[DE84-010872] 21 p3392 N84-31528
Thermal oscillations downstream of an elbow in stratified pipe flow
[DE84-006550] 21 p3401 N84-31579
Reentry analysis
[DE84-012640] 21 p3498 N84-32167
Safety and deterministic failure analyses in high-beta D-D Tokamak reactors
[DE84-012693] 21 p3500 N84-32185

REACTOR STARTUP TESTS
The measurement of acoustic emission parameters during hydraulic loading of the Novovorenezh AES reactor vessel VVER-1000
[DRIC-T-6998] 15 p2403 N84-25421

REACTOR TECHNOLOGY
Comparison between measured and predicted performance of a high speed, free surface liquid jet flowing along a curved wall
[DE83-012728] 01 p0082 N84-10530
Fusion technology development plan
[DE83-012954] 01 p0150 N84-10985
Electroforming of complicated structures for the nuclear and aerospace industry
[MBB-BB-536-82-OE] 02 p0207 N84-11350
Thermal analysis of a helium-cooled tube-bank blanket module for a tandem-mirror fusion reactor
[DE83-015840] 02 p0297 N84-11945
Development in reliability models and methods
[DE83-014663] 03 p0385 N84-12511
Space reactors: Past, present and future
[DE83-011177] 03 p0437 N84-12870
Separated isotopes: Vital tools for science and medicine
[DE83-011646] 04 p0603 N84-13981
High-density Z-pinch research
[DE83-017311] 04 p0608 N84-14013
Low-activation fusion-reactor design studies
[DE83-017688] 04 p0608 N84-14014
d-d Tokamak reactor assessment
[DE83-016127] 04 p0609 N84-14019
Background information and technical basis for assessment of environmental implications of magnetic fusion energy
[DE83-018300] 04 p0611 N84-14030
Materials needs for compact fusion reactors
[DE84-001366] 04 p0611 N84-14031
The design of modern Low Pressure (LP) steam turbines 06 p0840 N84-15473
Modular stellarator reactor: A Fusion power plant
[DE84-002268] 07 p1077 N84-17001
Magnetic mirror fusion power systems
[DE84-002799] 07 p1077 N84-17005
Aging degradation of cast stainless steel: Status and program
[DE84-004018] 08 p1135 N84-17381
Ultra-high-field superconducting magnets
[DE84-003913] 08 p1226 N84-18012
ATF-1 torsatron studies
[DE84-003314] 09 p1392 N84-19089
Prospects of the plasma focus for magnetic fusion 10 p1585 N84-20386
Plasma engineering design of a Compact Reversed-Field Pinch Reactor (CRFPR)
[DE84-004334] 10 p1586 N84-20394
NOVA Laser facility for inertial confinement fusion
[DE84-004190] 11 p1737 N84-21332
Monte Carlo study of ICRF start-up and sustained mode operation in tandem mirrors
[DE84-005808] 11 p1736 N84-21338
Tandem mirror fusion research
[DE84-005133] 11 p1736 N84-21339
Magnet design approach for pulsed Tokamak reactors
[DE84-005261] 11 p1736 N84-21341
Moving ring reactor KARIN-I
[IPPJ-680] 13 p2044 N84-23285
Reporting of indication data
[FOA-C-30352-E] 15 p2407 N84-25446
Surfaces, Coatings and Protection — for nuclear reactor components
[ND-R-751(S)] 18 p2931 N84-28583
Thermal laminarization of a stratified pipe flow
[DE84-006407] 20 p3185 N84-30236
IEEE Transactions on Nuclear Science. Volume NS-30, no. 4, part 2: 1983 Particle Accelerator Conference
[DE84-007400] 20 p3294 N84-30914
Magnetic fusion energy plasma interactive and high heat flux components. Volume 1: Technical assessment of the critical issues and problem areas in the plasma materials interaction field
[DE84-011527] 20 p3302 N84-30989
Plasma Fusion Center technical research programs
[DE84-007954] 20 p3304 N84-30983
Slideline verification for multilayer pressure vessel and piping analysis including tangential analysis
[DE84-004333] 21 p3423 N84-31711
START/TM: A study of start-up and fractional power operation of tandem mirror fusion reactors
[DE84-011477] 21 p3502 N84-32196

REACTORS
Invention of a tunable damper for use with an acoustic waveguide in hostile environments
[DE84-013109] 20 p3292 N84-30897

READ-ONLY MEMORY DEVICES
Calorimeter operating system implemented on a Z-80 microcomputer in read only memory
[DE83-016647] 03 p0419 N84-12734
An EPROM-based function generator 04 p0519 N84-13408
Polynomial driven time base and PN generator 04 p0519 N84-13409
Realization and analysis of a mask-programmable I2L multivalued logic circuit
[AD-P002352] 14 p2192 N84-24143
Some device count comparisons for reduced control stores using MOS (Metal-Oxide Semiconductor) circuits
[AD-P002361] 14 p2193 N84-24152
Nanosequencer digital logic controller
[NASA-CASE-NPO-16116-1] 15 p2385 N84-25306
Utilization of basic language programming with EEPROM technology for data acquisition applications and development
[DE84-010360] 18 p2921 N84-28526
Autonomous Integrated Receive System (AIRS) requirements definition. Volume 3: Performance and simulation
[NASA-CR-175263] 22 p3576 N84-32648
Simple microprogrammed controllers: An alternate approach
[INPE-3069-PRE/486] 23 p3812 N84-34171

READERS
Documentation for the machine-readable version of the Survey of the Astrographic Catalogue From 1 to 31 Degrees of Northern Declination (Freeneau 1963)
[NASA-TM-85569] 13 p2071 N84-23421
Thomson develops new optical reader, digital switching system: Gigadisc reader recorder 24 p3891 N84-34638

READING
A comparison of map learning methods: Map study, simulated travel and mixed
[AD-A133544] 06 p0892 N84-15794
Understanding picture-text instructions
[AD-A139746] 15 p2382 N84-25287

READING MACHINES
U READERS

READJUSTMENT
U ADJUSTING

READOUT
Operation of the Brookhaven MPS Facility
[DE83-015383] 03 p0441 N84-12896
Some aspects of the compatibility between strain gauge readout equipment and multi-component wind tunnel balances
[ARL-AERO-NOTE-417] 09 p1317 N84-18808
Investigations on the lock-in problem and the readout technique of laser gyros
[ESA-TT-773] 16 p2496 N84-26014

REAL GASES
A review of preflight estimates of real-gas effects on space shuttle aerodynamic characteristics 01 p0020 N84-10129
Gas-transfer analysis. Section B: Real gas results via the vanderWaals equation of state and virial extension of its limiting Abel-Noble form
[DE83-013281] 01 p0061 N84-10527

REAL NUMBERS
NT INTEGERS

REAL TIME OPERATION
Limited connected speech experiment
[AD-A131048] 01 p0066 N84-10433
Multi-directional gaging probe
[DE83-012855] 01 p0085 N84-10551
Symbology verification study
[AD-A131328] 02 p0177 N84-11162
Integrated command, control, communication and computation system design study. Summary of tasks performed
[NASA-CR-170611] 02 p0209 N84-11361
Method in the generation of a real-time interactive display
[DE83-013523] 02 p0274 N84-11789
A generalized computer code for developing dynamic gas turbine engine models (DIGTEM)
[NASA-TM-83506] 03 p0333 N84-12166
The use of a formal simulator to verify a simple real time control program
[AD-A131732] 03 p0420 N84-12745
A real-time implementation of an advanced sensor failure detection, isolation, and accommodation algorithm
[NASA-TM-83553] 04 p0477 N84-13140
Aethalometer: An instrument for the real-time measurement of optical absorption by aerosol particles
[DE84-000400] 04 p0536 N84-13638
Real-time processing system for the NRL (Naval Research Laboratory) remote sensing experiment: Phelps Bank, July 1982
[AD-A132151] 04 p0553 N84-13645
An evaluation of automated control of the oxyfuel cutting process for M1 vehicle fabrication
[AD-A134073] 05 p0668 N84-14520
An experimental device for real time determination of slant path atmospheric contrast transmittance (prototype status)
[AD-A134000] 05 p0702 N84-14610
Implementing an ADA kernel on NEBULA
[AD-A132745] 05 p0719 N84-14714
A host-target programming support environment for the production of high-quality real-time systems 05 p0724 N84-14753
Interface specifications for the SCR (A-7E) application data types module
[AD-A132717] 05 p0729 N84-14785
Real time optical interferometric image addition and subtraction by wave polarization
[AD-A134125] 05 p0746 N84-14902
General purpose magnetic-measurement data-acquisition system
[DE84-001101] 05 p0759 N84-14982
Issues critical to the application of adaptive array antennas to missile seekers
[AD-A133401] 06 p0824 N84-15371
Automatic electron density profiles from digital ionograms 06 p0869 N84-15659
Determination of propagation limitations at HF by real-time update of a computer model from oblique sounder data 06 p0869 N84-15660
The debugging of real time multiprocessor systems: An integrated solution proposal
[CISE-2067] 06 p0899 N84-15837
Climb-dash real-time calculations
[NASA-CR-173184] 07 p0943 N84-16115
On-board near-optimal climb-dash energy management 07 p0943 N84-16116
Real-time pilot guidance system for improved flight test maneuvers
[NASA-TM-84922] 07 p0952 N84-16176
Real-time digital processing of SAR data 07 p0989 N84-16408
Acousto-optic/CCD real-time SAR data processor 07 p0989 N84-16410
Real-time synthetic aperture radar image formation utilizing an electrooptic spatial light modulator 07 p0989 N84-16411

Development of an instrument for real-time computation of indicated mean effective pressure
[NASA-TP-2236] 07 p0997 N84-16461
A portable real-time data processing system for standard meteorological radiosondes
[NASA-CR-176358] 07 p1036 N84-16719
Permanent CPU errors and system activity: Measurement and modelling
[AD-A134467] 07 p1052 N84-16814
Real-time implementation of a speech digitization algorithm combining time-domain harmonic scaling and adaptive residual coding, volume 1
[AD-A135232] 08 p1150 N84-17485
Real-time implementation of a speech digitization algorithm combining time-domain harmonic scaling and adaptive residual coding, volume 2
[AD-A135233] 08 p1150 N84-17486
Automatic real time ionogram scaler with true height analysis - artist
[AD-A135174] 08 p1187 N84-17732
Use of digitized radar and microcomputers to forecast local floods and irrigation needs
[PB84-105568] 08 p1192 N84-17767
Strapdown inertial guidance system: Onboard software and its evaluation
[NAL-TR-775] 09 p1254 N84-18184
Optical data processing for missile guidance
[AD-A136216] 09 p1254 N84-18188
Integration of flight test data into a real-time simulation 09 p1259 N84-18216
Cost and performance analysis of visual and sensor simulation systems using Defense Mapping Agency data bases
[AD-A135955] 09 p1259 N84-18220
Issues in satellite packet video communication
[AD-A135942] 09 p1303 N84-18515
Interpretation of a SAR (Synthetic Aperture Radar) image of the Bay of Biscay
[AD-A135981] 09 p1303 N84-18517
Development and applications of the microchannel spatial light modulator
[AD-A136132] 09 p1323 N84-18645
Simulations for full unit-memory and partial unit-memory convolutional codes with real-time minimal-byte-error probability decoding algorithm 10 p1474 N84-19629
Los Alamos real-time and digital radiography plans
[DE84-004327] 10 p1482 N84-19685
The use of the MASCOT philosophy for the construction of Ada programs
[AD-A137417] 10 p1563 N84-20239
Operating system for a real-time multiprocessor propulsion system simulator
[NASA-TM-83605] 10 p1566 N84-20258
RTMPL: A structured programming and documentation utility for real-time multiprocessor simulations
[NASA-TM-83606] 10 p1566 N84-20259
Further development of a computer algorithm for the automatic determination of space vehicle potential in real time
[AD-A137041] 10 p1571 N84-20292
Real-time update of 2 H. F. (High Frequency) channel evaluation models by oblique sounding
[AD-A137556] 11 p1643 N84-20739
Airborne real time multisensor navigation
[AD-B079957] 12 p1768 N84-21534
The role of simulation in the development and flight test of the HIMAT vehicle
[NASA-TM-84912] 12 p1769 N84-21537
Real-time hybrid computer simulation of a small turboshaft engine and control system
[NASA-TM-83579] 12 p1771 N84-21548
Voice preprocessing system incorporating a real-time spectrum analyzer with programmable switched-capacitor filters
[AD-A137099] 12 p1805 N84-21769
High precision phase shifting techniques
[AD-A138397] 12 p1807 N84-21783
Hybrid integrated optic modules for real-time signal processing 12 p1905 N84-22412
Real-time synthetic aperture radar processing 12 p1906 N84-22416
Development and operation of a real-time data acquisition system for the NASA, Langley Research Center Differential Absorption Lidar
[NASA-CR-173397] 12 p1918 N84-22495
Testing and error analysis of a real-time controller 13 p2027 N84-23144
The simple roots of real-time computation hierarchies (preliminary version)
[MC-IW-244/83] 13 p2035 N84-23203
Real-time implementation of nonlinear optical processing functions
[AD-A138643] 13 p2043 N84-23256
Real time speech recognition on a distributed digital processing array
[AD-A139097] 14 p2139 N84-23826
H. F. Frequency management by frequency sharing as assisted by models updated in real-time
[AD-A139896] 15 p2321 N84-24936
On why it is impossible to prove that the BDX90 dispatcher implements a time-sharing system 15 p2387 N84-25319
The use of a formal simulator to verify a simple real time control program 15 p2388 N84-25322
Fundamental design problems of distributed systems for the hard real-time environment
[AD-A139996] 15 p2392 N84-25356
Research on new, fast, direct-executing programs for multiple microprocessor systems
[PB84-162791] 15 p2393 N84-25364
An evaluation of the directed flow graph methodology
[NASA-CR-173593] 16 p2543 N84-26324
Error analysis for marine geodetic control using the global positioning system
[AD-A140566] 17 p2605 N84-26887
Real time divergence measurement from single Doppler radar
[AD-A140558] 17 p2653 N84-26966
Signal processor architecture for backscatter radars 17 p2695 N84-27164
Real-time MST radar signal processing using a microcomputer running under FORTH 17 p2695 N84-27165
On two-tape real time computation and queues
[MC-IW-246/83] 17 p2750 N84-27455
Design methodology for real-time distributed systems
[AD-A140666] 17 p2754 N84-27478
Objective speech quality evaluation of real-time speech coders
[AD-A141194] 18 p2829 N84-27959
An integrating dosimeter for pulsed radiation
[AD-A141288] 18 p2844 N84-28062
The Demos multi-computer project: Hardware aspects
[NPL-DITC-36/84] 18 p2917 N84-28493
Real-time X-ray diffraction: Applications to materials characterization 18 p2939 N84-28644
HP-85/Mini-Ranger navigation system
[AD-A142131] 19 p2961 N84-28770
Machine monitoring for turning machine
[DE84-010214] 19 p3003 N84-29029
Adaptive spread spectrum receiver using acoustic surface wave technology
[AD-A142129] 19 p3007 N84-29060
A real-time air dispersion modeling system
[AD-A141405] 19 p3052 N84-29368
GEOSAT Ocean Applications Program (GOAP) initial data processing and analysis system test and evaluation plan
[AD-A141673] 19 p3062 N84-29426
Real-time applications in multiprocessor systems
[AD-A142130] 19 p3072 N84-29492
Multiprocessor Z-buffer architecture for high-speed, high complexity computer image generation
[AD-A141083] 19 p3074 N84-29507
Adaptive modeling and real-time simulation
[AD-A141648] 19 p3095 N84-29656
A data acquisition and real-time display system for testing a jet engine compressor
[AD-A142696] 20 p3197 N84-30301
PRISM: A practical real-time imaging stereo matcher
[AD-A142532] 20 p3259 N84-30686
An Ada (trademark) network: A real-time distributed computer system
[AD-P003423] 20 p3270 N84-30755
Ada (trademark) for business and other non-DOD applications
[AD-P003425] 20 p3271 N84-30757
Military Computer Family Operating System: An Ada (trademark) application
[AD-P003427] 20 p3271 N84-30759
Selection of a general purpose language and a real-time language suitable for shipboard data system 3
[PB84-180892] 20 p3275 N84-30795
Characterization of real-time computers
[NASA-CR-3807] 20 p3277 N84-30801
Automated planning for intelligent machines in energy-related applications
[DE84-011666] 20 p3279 N84-30815
Nonlinear real-time optical signal processing
[AD-A142619] 20 p3300 N84-30956
Optimum control of electric motor drives for industrial robots
[DE84-012878] 21 p3395 N84-31543
Instrumentation for real-time ultrasonic sensing of arc welding characteristics
[DE84-012536] 21 p3414 N84-31649
Real-time ultrasonic sensing of arc welding processes
[DE84-005031] 21 p3415 N84-31657
Data base generation: Improving the state-of-the-art
[AD-P003470] 21 p3512 N84-32245
Real-time CGSI (Computer Generated Synthesized Imagery)-single pipeline processor
[AD-P003480] 21 p3512 N84-32247
Microprocessors in aircrew training devices
[AD-P003485] 21 p3513 N84-32252
Data base management of software development
[AD-P003486] 21 p3513 N84-32253
Autonomous Integrated Receive System (AIRS) requirements definition. Volume 1: Executive summary
[NASA-CR-175261] 22 p3575 N84-32646
Autonomous Integrated Receive System (AIRS) requirements definition. Volume 2: Design and development
[NASA-CR-175262] 22 p3576 N84-32647
Autonomous Integrated Receive System (AIRS) requirements definition. Volume 3: Performance and simulation
[NASA-CR-175263] 22 p3576 N84-32648
Verification of hourly forecasts of wind turbine power output
[PNL-4800] 22 p3616 N84-32914
The severity of the Brazilian freeze of 1981 as monitored in real time by satellite
[INPE-2586-PRE/234] 22 p3625 N84-32967
Array processor utilization in the computation of real-time images
[ARL-SYS-TM-73] 22 p3637 N84-33058
Summary of research performed at MIT Laboratory for Computer Science
[AD-A143459] 22 p3638 N84-33064
System analysis for the Huntsville Operational Support Center distributed computer system
[NASA-CR-171136] 22 p3643 N84-33097
Real-time optical filtering system with spatial and temporal enhancement of visual information
[AD-D011108] 22 p3656 N84-33172
Varying bandpass of optical spatial filter by rotating mirrors having changing reflectivity
[AD-D011114] 22 p3656 N84-33173
Updating replicated files in real time distributed processing systems 22 p3670 N84-33264
Satellite communication of real-time packet video images
[AD-A143613] 23 p3730 N84-33643
Development of real-time error ellipses as an indicator of Kalman filter performance
[AD-A143698] 23 p3812 N84-34174
A standard organization for specifying abstract interfaces
[AD-A143787] 23 p3815 N84-34194
Flight Test Techniques
[AGARD-CP-373] 24 p3847 N84-34396
Real time flight test conduction and monitoring 24 p3850 N84-34414
Flight testing and real time data processing for development and integration of weapon systems 24 p3850 N84-34415
Real time testing: The next generation 24 p3850 N84-34416
An extended real-time microwave airplane position system 24 p3850 N84-34419
Pipelined digital SAR azimuth correlator using hybrid FFT-transversal filter
[NASA-CASE-NPO-15519-1] 24 p3893 N84-34851
Autonomous surveillance in the visual spectral region 24 p3914 N84-34786
NSSFC: VAS assessment activities 24 p3932 N84-34891
Real-time solar magnetograph operation system software design and user's guide
[NASA-TM-86467] 24 p3945 N84-34976
US Army Ada training curriculum. Curriculum catalog, 1984
[AD-A144188] 24 p3945 N84-34978

REAL VARIABLES
- NT ABEL FUNCTION
- NT ASYMPTOTES
- NT ASYMPTOTIC SERIES
- NT BESSEL FUNCTIONS
- NT BETHE-SALPETER EQUATION
- NT BIHARMONIC EQUATIONS
- NT BINARY INTEGRATION
- NT BURGER EQUATION
- NT CALCULUS OF VARIATIONS
- NT CAUCHY-RIEMANN EQUATIONS
- NT COLLINEARITY
- NT COPLANARITY
- NT COSINE SERIES
- NT CUBIC EQUATIONS
- NT DIFFERENTIAL EQUATIONS
- NT EINSTEIN EQUATIONS
- NT ELLIPTIC DIFFERENTIAL EQUATIONS
- NT EULER-CAUCHY EQUATIONS
- NT EXISTENCE THEOREMS
- NT EXTREMUM VALUES
- NT FOKKER-PLANCK EQUATION

NT FOURIER SERIES
NT FUNCTIONAL INTEGRATION
NT GAUSS EQUATION
NT GREEN'S FUNCTIONS
NT HELMHOLTZ VORTICITY EQUATION
NT HYPERBOLIC DIFFERENTIAL EQUATIONS
NT HYPERBOLIC FUNCTIONS
NT HYPERPLANES
NT J INTEGRAL
NT JACOBI MATRIX METHOD
NT KERNEL FUNCTIONS
NT LEBESGUE THEOREM
NT LIAPUNOV FUNCTIONS
NT LIMITS (MATHEMATICS)
NT LINEAR EQUATIONS
NT LINEAR EVOLUTION EQUATIONS
NT LIOUVILLE EQUATIONS
NT LIPSCHITZ CONDITION
NT MAXIMA
NT MEASURE AND INTEGRATION
NT MINIMA
NT NEUMANN PROBLEM
NT NONLINEAR EQUATIONS
NT NONLINEAR EVOLUTION EQUATIONS
NT NUMERICAL DIFFERENTIATION
NT NUMERICAL INTEGRATION
NT PADE APPROXIMATION
NT PARABOLIC DIFFERENTIAL EQUATIONS
NT PARTIAL DIFFERENTIAL EQUATIONS
NT PERIODIC FUNCTIONS
NT POISSON EQUATION
NT POWER SERIES
NT QUADRATIC EQUATIONS
NT RUNGE-KUTTA METHOD
NT SERIES (MATHEMATICS)
NT STURM-LIOUVILLE THEORY
NT TANGENTS
NT TAYLOR SERIES
NT VECTOR ANALYSIS
NT VORTICITY
NT WEIGHTING FUNCTIONS
The computation of Galois groups
06 p1225 N84-18000
Wave fronts to infinity of real analytic functions
22 p3634 N84-33031

REARWARD FACING STEPS
U BACKWARD FACING STEPS

REATTACHED FLOW
Computation of turbulent flows over backward-facing step
[NASA-TM-85851] 03 p0371 N84-12414
Numerical study of a separating and reattaching flow by using Reynolds-stress tubulence closure
[NASA-CR-166547] 06 p1097 N84-17133
Experimental study of flow reattachment in a single-sided sudden expension
[NASA-CR-3765] 09 p1312 N84-18571
Reattachment of a three-dimensional, incompressible jet to an adjacent axisymmetric inclined surface
[AD-A136288] 09 p1314 N84-18584

REB
U RELATIVISTIC ELECTRON BEAMS

RECEIVERS
NT LINEAR RECEIVERS
NT LOGARITHMIC RECEIVERS
NT RADAR RECEIVERS
NT RADIO RECEIVERS
NT RADIOTELEPHONES
NT TELEVISION RECEIVERS
Investigation of air transportation technology at Ohio University, 1982
02 p0167 N84-11100
RF front end interface and AGC modification
02 p0168 N84-11102
High dynamic global positioning system receiver
[NASA-CASE-NPO-16171-1-CU]
03 p0330 N84-12151
Test and demonstration of Macrometer (TM) model V-1000 interferometric surveyor
[PB83-239103] 03 p0402 N84-12631
Intercontinental time and frequency transfer using a global positioning system timing receiver
04 p0519 N84-13411
Optimum depth of propagation in shallow water
[AD-A132182] 04 p0595 N84-13927
Optical analog repeater development for a one GHz bandwidth recirculating delay line
[AD-A133658] 05 p0675 N84-14437
Analysis of short pulse laser altimetry data obtained over horizontal path
[NASA-CR-170612] 06 p0849 N84-15535
Ka-band Ga-As FET noise receiver/device development
[NASA-CR-175176] 10 p1484 N84-19705
The 30-GHz monolithic receive module
[NASA-CR-168326] 11 p1642 N84-20737
Acoustic-optic spectrometer. 1: Noise contributions and system consideration
[NASA-TM-85613] 14 p2221 N84-24326
Feed system for the Metsaehovi cooled 75-95 GHz receiver
[REPT-S-146] 15 p2328 N84-24978
Cryogenic 75-95 GHz front-end for the Metsaehovi radio telescope
[REPT-S-145] 15 p2424 N84-25584
Method and apparatus for receiving and tracking phase modulated signals
[NASA-CASE-MSC-16170-2] 18 p2828 N84-27952
Analog single channel communication transmitter and receiver tests
[AD-A141480] 19 p3005 N84-29044
USSR report: Electronics and electrical engineering
[JPRS-UEE-84-008] 21 p3376 N84-31427
Use of space-diverse photoreceivers for analysis of interference patterns 21 p3377 N84-31429
Relation between pressure pulse generated in optoacoustic receiver and intensity of stimulating laser pulse 21 p3478 N84-32047
Intermodulation distortions in semiconductor microwave receivers and transmitters (survey)
22 p3569 N84-32605
Autonomous Integrated Receive System (AIRS) requirements definition. Volume 1: Executive summary
[NASA-CR-175261] 22 p3575 N84-32646
Autonomous Integrated Receive System (AIRS) requirements definition. Volume 2: Design and development
[NASA-CR-175262] 22 p3576 N84-32647
Autonomous Integrated Receive System (AIRS) requirements definition. Volume 3: Performance and simulation
[NASA-CR-175263] 22 p3576 N84-32648
Signal detection in multiple-access channels
[AD-A143796] 23 p3731 N84-33648
A survey of state-of-the-art LORAN-C receivers
[AD-A144199] 24 p3853 N84-34434
Flight termination receiver catalog
[AD-A144155] 24 p3894 N84-34657
An analysis of coherent digital receivers in a jamming environment
[AD-A144441] 24 p3895 N84-34667

RECEIVING
Numerical calculations of the function of the static receptivity of electrons in metals
[BLL-M-35640-(5828.4)] 22 p3551 N84-32480

RECEIVING SYSTEMS
U RECEIVERS

RECEPTACLES (CONTAINERS)
U CONTAINERS

RECEPTION
U RECEIVING

RECEPTION DIVERSITY
Adaptive techniques for troposcatter
[AD-A142226] 19 p3006 N84-29066
Use of space-diverse photoreceivers for analysis of interference patterns 21 p3377 N84-31429
Environment and receptivity 23 p3748 N84-33760

RECEPTORS (PHYSIOLOGY)
NT GRAVIRECEPTORS
NT PHOTORECEPTORS
NT THERMORECEPTORS
Mammalian gravity receptors: Structure and metabolism 09 p1353 N84-18840

RECHARGING
Charge control investigation of rechargeable lithium cells 23 p3736 N84-33671

RECIPROCATING ENGINES
U PISTON ENGINES

RECIPROCATION
Torsional vibration of crankshafts in reciprocating machines 12 p1822 N84-21876

RECIPROCITY THEOREM
Absolute electroacoustic measurement of temperature oscillations in superfluid helium by the reciprocity method
[AD-A136951] 10 p1575 N84-20322

RECIRCULATION
U CIRCULATION

RECIRCULATIVE FLUID FLOW
Turbulence characteristics of swirling flowfields
[NASA-CR-175392] 10 p1490 N84-19744
Confined turbulent swirling recirculating flow predictions
[NASA-CR-175397] 10 p1491 N84-19745
On the mean dynamical balances of the Gulf Stream Recirculation Zone
[AD-P002661] 11 p1691 N84-21026
An aerodynamic study of combustion in the combustion chambers of turbomachines: Experimental and theoretical approaches 15 p2293 N84-24764
Ground based testing without wind tunnels
16 p2437 N84-25634

RECLAMATION
NT GAS RECOVERY
NT MATERIALS RECOVERY
NT NUCLEAR FUEL REPROCESSING
NT WATER RECLAMATION
Turbine engine lubricant reclamation
[AD-A135926] 09 p1288 N84-18410
Resource and potential reclamation evaluation: Northeast Montana investigations
[PB84-112390] 09 p1337 N84-18734
Resource and potential reclamation evaluation: Northeast Montana investigations
[PB84-112408] 09 p1336 N84-18735
Revegetation methods for arid areas, revised
[AD-A139068] 14 p2170 N84-23997

RECOGNITION
NT CHARACTER RECOGNITION
NT PATTERN RECOGNITION
NT SPEECH RECOGNITION
NT TARGET RECOGNITION
NT TIMBER IDENTIFICATION
Investigation of mechanisms underlying odor recognition
[AD-A140969] 18 p2914 N84-28482
Modification of current feedback strategies: A text synthesis approach
[AD-A142187] 19 p3068 N84-29483
Effects of emotional and perceptual-motor stress on a voice recognition system's accuracy: An applied investigation
[AD-A142554] 20 p3175 N84-30160
Smoothed local symmetries and their implementation
[AD-A142489] 20 p3279 N84-30811

RECOIL ATOMS
Coulomb explosion and recent methods for studying molecular decomposition
[DE83-012348] 01 p0142 N84-10933

RECOILINGS
Continuous energy gamma-ray spectrometry
[DE84-006349] 14 p2123 N84-23726

RECOMBINATION COEFFICIENT
Experimental determination of transport coefficients in CO2 laser gas mixtures
[DE83-013638] 01 p0086 N84-10572
Ion-ion recombination rate in the EMP source region
[AD-A131148] 03 p0360 N84-12339

RECOMBINATION REACTIONS
NT ELECTRON RECOMBINATION
NT ELECTRON-ION RECOMBINATION
NT HYDROGEN RECOMBINATIONS
NT ION RECOMBINATION
NT OXYGEN RECOMBINATION
NT RADIATIVE RECOMBINATION
Dielectronic recombination: An introduction
[DE83-015738] 02 p0296 N84-11942
Ukrainian Physics Journal (selected articles)
[AD-A131087] 03 p0429 N84-12614
Photochemical generation of the optoacoustic effect
[DE84-003712] 08 p1228 N84-16023
Development of X-ray laser media. Measurement of gain and development of cavity resonators for wavelengths near 130 angstroms, volume 1
[AD-A136305] 09 p1320 N84-18621
Cytoplasmic rearrangements associated with amphibian egg symmetrization 09 p1357 N84-18867
Atomic processes for plasma diagnostics in Tokamaks
11 p1734 N84-21311
Measurement techniques for high-resistivity detector-grade silicon
[PB84-155902] 14 p2149 N84-23877
Measurements of ionization balance parameters in atomic ions
[DE84-007884] 14 p2222 N84-24337
Surface and allied studies in silicon solar cells
[NASA-CR-173761] 19 p3049 N84-29351
Analysis of impurities forming recombination centers in silicon
[BMFT-FB-T-84-049] 19 p3113 N84-29779
Soft X-ray laser experiments at Norvette Laser Facility
[DE84-012594] 21 p3410 N84-31627

RECOMPRESSION
U COMPRESSING

RECONNAISSANCE
NT AERIAL RECONNAISSANCE
NT PHOTORECONNAISSANCE
NT SPECTRAL RECONNAISSANCE
Poststorm reconnaissance of Tropical Storm Chris
[AD-A131948] 03 p0411 N84-12688
Meteorological sensors for battlefield weather support
[AD-A132623] 05 p0709 N84-14643

RECONNAISSANCE AIRCRAFT
NT MIRAGE AIRCRAFT
NT U-2 AIRCRAFT
US military aircraft cost handbook
[AD-A136035] 09 p1249 N84-18158

RECONNAISSANCE SPACECRAFT
Spaceborne sensors (1983-2000 AD): A forecast of technology
[NASA-TM-86083] 17 p2616 N84-26743
RECONSTRUCTION
NT WAVE FRONT RECONSTRUCTION
A procedure for designing exact reconstruction filter banks for tree-structured subband coders
[AD-A142345] 20 p3173 N84-30150
RECORDING
NT DATA RECORDING
NT DATA SMOOTHING
NT MAGNETIC RECORDING
NT PHOTOGRAPHIC RECORDING
RECORDING HEADS
Device for marking and searching for information on a magnetic carrier
[AD-A139393] 14 p2148 N84-23867
RECORDING INSTRUMENTS
NT BATHYTHERMOGRAPHS
NT FLIGHT RECORDERS
NT PLOTTERS
NT SEISMOGRAPHS
NT WEATHER DATA RECORDERS
NT X-Y PLOTTERS
Preliminary evaluation of the light pen as the key component in a microcomputer-based simulator
[AD-A132596] 05 p0719 N84-14712
Thomson develops new optical reader, digital switching system: Gigadisc reader recorder 24 p3891 N84-34638
RECORDS
NT VIDEO DISKS
OSHA medical and workplace surveillance requirements and NIOSH recommendations (for employees exposed to toxic substances and other work hazards)
[NASA-CR-3690] 07 p0966 N84-16258
Multidomain, multirecord-type Datatrieve-11 databases
[DE84-001707] 08 p1241 N84-18110
Paperwork Reduction Act of 1980
[S-REPT-98-479] 14 p2248 N84-24504
Systems development and applications software in medical facilities
[AD-A141306] 18 p2945 N84-28674
RECOVERABILITY
Detonation-and-flame arresters for gasoline-vapor recovery systems 15 p2431 N84-25800
RECOVERABLE SPACECRAFT
NT ASTRO VEHICLE
NT REUSABLE SPACECRAFT
NT SPACE SHUTTLES
RECOVERY
Rate of initial recovery and subsequent radar monitoring performance following a simulated emergency involving startle
[AD-A133602] 06 p0892 N84-15795
An assessment of advanced technology for industrial cogeneration
[NASA-CR-173456] 12 p1841 N84-22001
RECOVERY PARACHUTES
New, high performance rotating parachute — reentry vehicle recovery
[DE84-002382] 06 p0783 N84-15129
Development of the parachute recovery system for the LBRV-2 reentry vehicle
[DE84-003340] 08 p1100 N84-17151
RECOVERY VEHICLES
CURV 3: Characteristics and mission applications
[AD-A140225] 17 p2629 N84-26819
RECRYSTALLIZATION
Method of refining 2,2-isopropylidenebis-3,5-dibromophenylene-4-oxydiethanol
[NASA-TM-77458] 10 p1453 N84-19492
Use of olivine and plagioclase saturation surfaces for the petrogenetic modeling of recrystallized basic plutonic systems 11 p1679 N84-20956
New materials for infrared transmitting electrooptic filters
[AD-A139272] 14 p2224 N84-24349
Tensile strength and recrystallization of the 7010 and 7475 alloys: Low cycle fatigue of the 7010 alloy — aluminum alloys
[REPT-18/5069-M] 18 p2815 N84-27873
High-quality silicon films prepared by zone-melting recrystallization 18 p2939 N84-28638
Batch and continuous recrystallization of secondary explosives
[DE84-009735] 19 p3002 N84-29024
Experimental studies of laterally seeded recrystallized polysilicon on silicon dioxide
[AD-A142382] 20 p3162 N84-30077
Superplasticity in thermomechanically processed high magnesium aluminum-magnesium alloys
[AD-A143164] 21 p3366 N84-31356
Submicron structures technology and research 22 p3683 N84-33353
Electron microscope study of processes of polygonization and recrystallization in alpha-phase of two-phase (alpha + beta)-titanium alloys with plate structure 23 p3706 N84-33507
Effect of thermocyclic processing on phase composition and structure of VT22 alloy 23 p3709 N84-33511
RECTANGLES
Nonlinear sloshing analysis of liquid in containers with arbitrary geometries
[NAL-TR-757] 09 p1313 N84-18579
Data base dependent aggregation operators in a map oriented information system
[FOA-C-30347-E1] 15 p2417 N84-25514
RECTANGULAR COORDINATES
U CARTESIAN COORDINATES
RECTANGULAR DRAINAGE
U DRAINAGE PATTERNS
RECTANGULAR PANELS
Large deflection multimode response of clamped rectangular panels to acoustic excitation, volume 1
[AD-A139622] 15 p2350 N84-25107
RECTANGULAR PLANFORMS
NT RECTANGULAR PANELS
NT RECTANGULAR PLATES
NT RECTANGULAR WINGS
A rectangular gate merged MOSBJT
[AD-A132450] 04 p0525 N84-13453
Impulsively-started flow about rectangular cylinders
[AD-A136029] 09 p1315 N84-18595
Length distribution of chords through a rectangular volume
[AD-A143302] 22 p3577 N84-32654
A flow visualization investigation on selected shapes with emphasis on flow separation
[AD-A143804] 23 p3747 N84-33753
RECTANGULAR PLATES
Bending of transversally loaded orthotropic rectangular and sector plates 03 p0387 N84-12520
Nonlinear dynamics and control of a vibrating rectangular plate
[NASA-CR-172215] 03 p0388 N84-12526
Buckling of flat rectangular orthotropic plates - computer program. (Application to laminated composite plates)
[ESDU-81047] 07 p1014 N84-16580
Analytical results for postbuckling behavior of plates in compression and shear
[NASA-TM-85766] 14 p2157 N84-23922
Nonlinear analysis of rectangular glass plates by Galerkin method
[PB84-159649] 15 p2302 N84-24819
Numerical solution of rectangular anisotropic plates in flexure with free edges
[NPL-DMA(A)-71] 15 p2346 N84-25075
RECTANGULAR WAVEGUIDES
Fundamental mode rectangular waveguide system for Electron-Cyclotron Resonant Heating (ECRH) for tandem mirror experiment-upgrade (TMX-U)
[DE84-009085] 15 p2322 N84-24940
Compact broadband rectangular to coaxial waveguide junction
[AD-D011091] 22 p3587 N84-32716
Nonlinear interaction of two noncollinear sound waves in a rectangular waveguide
[AD-A144440] 24 p3895 N84-34666
Monolithic microwave integrated circuit devices for active array antennas
[NASA-CR-173981] 24 p3897 N84-34675
RECTANGULAR WINGS
A study of prediction methods for the high angle-of-attack aerodynamics of straight wings and fighter aircraft
[NASA-CR-3764] 06 p1097 N84-17131
Wind tunnel investigation of the rolling moment of a rectangular wind with some winglets on the left upper tip
[NAL-TR-788] 16 p2440 N84-25650
Subsonic and transonic unsteady- and steady-pressure measurements on a rectangular supercritical wing oscillated in pitch — wind tunnel tests
[NASA-TM-85765] 22 p3530 N84-32348
RECTIFICATION
NT GEOMETRIC RECTIFICATION (IMAGERY)
RECTIFIERS
NT AVALANCHE DIODES
NT GERMANIUM DIODES
NT SILICON CONTROLLED RECTIFIERS
NT THYRATRONS
NT THYRISTORS
A high-performance digital triggering system for phase-controlled rectifiers
[DE83-012217] 03 p0367 N84-12386
Inexpensive solid-state trigger unit for thyratrons
[DE84-001424] 08 p1152 N84-17501
Evaluation of the effect of non-metallic inclusions in steel electrodes on the frequency of flashbacks in mercury-arc rectifiers
[BLL-ERA-TRANS-3002/23] 17 p2662 N84-26982
Differential rectification of SLR-images using map-derived and radar-generated digital elevation models
[AD-A141828] 19 p3006 N84-29054
A battery charger and state of charge indicator
[NASA-CR-173961] 23 p3743 N84-33725
RECUPERATORS
U REGENERATORS
RECURSION FORMULAS
U RECURSIVE FUNCTIONS
RECURSIVE FUNCTIONS
A fully automatic proof of an ordered tree insertion function
[AD-A130720] 01 p0133 N84-10868
Recursive analysis of the geomagnetic vector field
[INPE-2865-PRE/400] 02 p0272 N84-11776
Nonexistance of finite dimensional filters for conditional statistics of the cubic sensor problem
[MC-BW-178/83] 07 p1067 N84-16931
Rounding errors in some recursive methods used in computational probability
[PB84-124734] 09 p1379 N84-19013
Recursive lagrangian dynamics of flexible manipulator arms via transformation matrices
[AD-A137345] 10 p1574 N84-20316
Recursion formulas and limit theorems for the lifetime distribution of a model fibrous composite 11 p1626 N84-20645
An overview of recursive least squares estimation and lattice filters
[AD-A137554] 11 p1713 N84-21166
A recursive linear predictive vocoder
[AD-A138006] 12 p1805 N84-21770
A fast complementation algorithm for sum-of-products experessions of multiple-valued input binary functions
[AD-P002339] 14 p2191 N84-24130
The simplification of multiple-valued symmetric functions
[AD-P002340] 14 p2191 N84-24131
High-speed recursive digital filter realization
[AD-A140904] 17 p2759 N84-27517
Sorting by recursive partitioning
[AD-A141583] 19 p3077 N84-29524
A procedure for designing exact reconstruction filter banks for tree-structured subband coders
[AD-A142345] 20 p3173 N84-30150
Modifications to iterative recursion unfolding algorithms and computer codes to find more appropriate neutron spectra
[AD-A142475] 20 p3273 N84-30775
Input-output parametric models for nonlinear systems. Part 1: Deterministic nonlinear systems
[RR-251-PT-1] 20 p3283 N84-30844
Application of an adaptive noise technique on state estimation to data smoothing
[INPE-3187-PRE/552] 21 p3465 N84-31963
RECYCLING
Recycling of noble metals in connection with electrochemical processes
[BMFT-FB-T-83-140] 02 p0192 N84-11245
North Carolina used-motor-oil re-refining program: Economics and logistics and operating results
[DE84-001448] 06 p0810 N84-15277
Reliability and maintainability data acquisition in equipment development tests
[DE84-002994] 07 p1084 N84-17051
Chromium
[PB84-100882] 08 p1136 N84-17385
Development of a prototype experiment for treating CELSS and PCELSS wastes to produce nutrients for plant growth
[NASA-CR-173167] 09 p1277 N84-18341
Obtaining titanium carbide powder from titanium shavings 12 p1785 N84-21645
Recycling of duroplastic moulding materials hardened by dispersion by means of powdering and compounding new materials
[BMFT-FB-T-83-302] 15 p2301 N84-24811
MoO3, ex MoS2, with further processing of the metal-bearing waste sulfuric acid generated in the process
[BMFT-FB-T-83-297] 15 p2366 N84-25196
Utilization of zirconium wastes in Al-special alloys
[BMFT-FB-T-84-020] 16 p2485 N84-25802
Aquatic plant control research program. Effects of endothall treatment on phosphorus concentration and community metabolism of aquatic communities
[AD-A141830] 19 p3052 N84-29370
New developments in materials recycling by the US Bureau of Mines 23 p3704 N84-33480
Vacuum recycling effect on minor elements in superalloys 23 p3704 N84-33481
Problems presented to engine builders by the recycling of metallic materials — titanium and nickel alloys for aircraft engine parts 23 p3704 N84-33482

Trace elements in superalloys and the implications for recycling 23 p3705 N84-33484
The effect of recycling on cast structures and the internal character of IN100 alloy: A laboratory study 23 p3705 N84-33485
Using recycled superalloys in precision casting 23 p3705 N84-33486

RED ARCS
The Korean auroral records, 1507 - 1747 and the SAR (Stable Auroral Red) arcs
[NASA-CR-174472] 01 p0104 N84-10677

RED BLOOD CELLS
U ERYTHROCYTES

RED GIANT STARS
NT CARBON STARS
Role of the radiation pressure gradient in giant and supergiant star evolution
[DE84-001715] 05 p0783 N84-15007
Synthetic spectra of red giants 15 p2422 N84-25550
Ultraviolet and optical observations of metal deficient red giants and chromospheric models 24 p3974 N84-35166

RED SEA
Navy tactical applications guide. Volume 5, Part 1: Indian Ocean (Red Sea/Persian Gulf) weather analysis and forecast applications
[AD-A134412] 07 p1039 N84-16740
Geophysical investigations of a geothermal anomaly at Wadi Ghadir, eastern Egypt
[NASA-CR-173527] 14 p2175 N84-24030

RED SHIFT
Spectrophotometry of 2 complete samples of flat radio spectrum quasars
[NASA-CR-175343] 07 p1088 N84-17077
Statistical problems in the determination of the cosmological deceleration parameter qo 09 p1412 N84-19233
Documentation for the machine-readable version of a table of Redshifts for Abell clusters (Sarazin, Rood and Struble 1982)
[NASA-TM-85571] 13 p2070 N84-23417
Observational and theoretical studies of rich clusters with multiple subcondensations
[NASA-CR-173618] 16 p2575 N84-26528
Further studies of nearby high velocity interstellar gas 24 p3973 N84-35157

REDOX CELLS
NASA redox storage system development project, calendar year 1982
[NASA-TM-83469] 02 p0241 N84-11579
Study to establish cost projections for production of Redox chemicals
[NASA-CR-167881] 02 p0241 N84-11580
Electrochemical studies of redox systems for energy storage
[NASA-CR-174503] 06 p0873 N84-15681
Redox behavior of high temperature electrodes 11 p1741 N84-21359
Spectroscopic determination of the ac voltammetric response
[AD-A137321] 18 p2833 N84-27983
Chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] 18 p2868 N84-28205
Anion permselective membrane
[NASA-CR-174725] 19 p3050 N84-29358
Negative electrode catalyst for the iron-chromium REDOX energy storage system
[NASA-CASE-LEW-14028-1] 22 p3616 N84-32909

REDUCED GRAVITY
Apparatus analysis and preliminary design of low gravity porous solids experiment for STS Orbiter mid-deck
[NASA-CR-166248] 01 p0017 N84-10109
Low gravity experiment for studying a rotating fluid having a free surface
[NASA-CR-170923] 03 p0371 N84-12413
Microgravity silicon zoning investigation
[NASA-CR-170919] 04 p0488 N84-13207
Liquid management in low gravity using baffled rotating containers
[NASA-TP-2263] 06 p0834 N84-15427
Second All-Union Seminar on Hydromechanics and Heat-Mass Transfer in Weightlessness. Abstracts of reports: Table of contents
[NASA-TM-77534] 09 p1312 N84-18576
The Alpha-Helix Concept: Innovative utilization of the Space Station Program. A report to the National Aeronautical and Space Administration requesting establishment of a Sensory Physiology Laboratory on the Space Station
[NASA-CR-175436] 11 p1621 N84-20610
Methods and major findings of cardiovascular exploration involving the human centrifuge 11 p1701 N84-21097
Growth of crystals from solutions in low gravity (A0139A) 15 p2270 N84-24634
Computational modeling of jet induced mixing of cryogenic propellants in low-G
[NASA-TM-83703] 15 p2331 N84-25000
Influences affecting separation in monotectic alloys under microgravity 17 p2612 N84-26723
First results of a MAUS experiment to investigate the stability of a metallic dispersion 17 p2612 N84-26724
Melting and solidification of metallic composites 17 p2613 N84-26726
Acoustic mixing of an immiscible alloy (Pb-Zn) in microgravity 17 p2613 N84-26728
Solidification of Al-Pb alloys under microgravity in Texus-7, preliminary report 17 p2613 N84-26730
Penn State Get Away Special 18 p2799 N84-27759
Results of the Purdue University GAS-1 payload 18 p2799 N84-27760
Arc discharge convection studies: A Space Shuttle experiment 18 p2799 N84-27761
El Paso/Ysleta schools Get-Away Special Space Shuttle student projects 18 p2799 N84-27766
An investigation of the phototropic effect on seedling orientation in a microgravity environment: A student involvement project — radish germination 18 p2800 N84-27771
Design considerations for a HE-3 refrigerator for space applications
[NASA-TM-85973] 18 p2836 N84-28001
Microgravity Science Applications Bibliography: 1984 revision
[NASA-TM-86651] 21 p3518 N84-32283
Development of the sonic pump levitation
[NASA-CR-161963] 22 p3592 N84-32749
Computational modelling of jet induced mixing in cryogenic propellant tanks in low-g 23 p3745 N84-33742
Protein single crystal growth under microgravity 23 p3805 N84-34124
Diffusion profiles in microgravity protein crystallization experiments — Spacelab 23 p3805 N84-34125
The so-called Wolff's law and the adaptation of bone to microgravity 23 p3808 N84-34145
Space Shuttle reaction control subsystem propellant tank masked screen test 24 p3862 N84-34477
The movement of particles in liquid metals under gravity forces and the interaction of particles with advancing solid-liquid interface 24 p3882 N84-34594

REDUCTION
Bottom Line Academia Conference — quality management education
[AD-A131043] 01 p0159 N84-11048
Bifunctional oxygen electrodes
[DE84-002774] 07 p0972 N84-16296
Variance reduction techniques with applications
[AD-A138074] 12 p1894 N84-22334

REDUCTION (CHEMISTRY)
NT HYDROGENATION
Effects of solvent and supporting electrolyte on the electrochemical reduction of sulfur dioxide
[DE83-013436] 01 p0038 N84-10241
Optimizing coagulation-adsorption for haloform and TOC (Total Organic Carbon) reduction
[PB83-210757] 01 p0058 N84-10378
Reduction of CO2 to methanol and methane by photo and dark reactions on semiconductor electrodes
[PB83-249490] 03 p0358 N84-12329
Hydrogen in MgO crystals thermochemically reduced at very high temperatures
[DE83-014058] 03 p0453 N84-12981
Corrosion research 06 p0797 N84-15191
Discharge kinetics of the nickel electrode
[AD-A134389] 07 p0970 N84-16283
Method and apparatus for the rapid determination of gases, oxygen in particular, and of the combined forms in which they are present in metals
[BLL-OA-TRANS-3127-(6196.3)] 08 p1129 N84-17340
Electrocatalysis of oxygen using water soluble metal porphyrins and chemically modified porphyrin electrodes
[AD-A136062] 09 p1280 N84-18358
Nitrite reduction in paracoccus halodenitrificans: Evidence for the role of a cd-type cytochrome in ammonia formation
[NASA-TM-85883] 10 p1545 N84-20125
Terrestrial whisker growth experiments which anticipate some special effects of a space station environment
[NASA-CR-175440] 11 p1627 N84-20647
Atomic and molecular processes in discharge cleaning plasmas 11 p1736 N84-21322
Intramolecular electron transfer at metal surfaces. 2: Comparisons of ligand-bridged CR(3) reduction kinetics at silver versus mercury electrodes
[AD-A139047] 13 p1956 N84-22720
Intramolecular electron transfer at metal surfaces. 3: Influence of bond conjugation on reduction kinetics of Cobalt (3) anchored to metal surfaces via thiophenecarboxylate ligands
[AD-A139066] 13 p2041 N84-23242
Electrochemical reduction reactions involving formic acid
[AD-A139479] 14 p2123 N84-23721
Surface chemistry of NiO (100)
[AD-A140233] 16 p2463 N84-25785
Reduced grain boundary mobility and the sintering of molybdenum
[AD-A140265] 16 p2469 N84-25823
Stoichiometric CO reduction by supported metal carbonyls
[PB84-175025] 16 p2474 N84-25862
Experimental and theoretical study of NOx by reduction by NHI in gas phase 17 p2724 N84-27340
The role of sintering in the oxidation-reduction of palladium powders
[DE84-011202] 20 p3159 N84-30059
Investigation of the role of sintering in gas-solid interactions
[DE84-010662] 20 p3163 N84-30089
Reduction of CO2 to methanol and methane by photo and dark reactions on semiconductor electrodes
[PB84-214360] 21 p3363 N84-31334
Adsorbent regenerator
[DE84-012969] 22 p3549 N84-32468
Effect of feed gas trace components on the SRC-1 hydrogen purification unit
[DE84-012975] 22 p3562 N84-32556
New gallium precursors for the formation of high purity gallium arsenide by metal organic vapor phase deposition
[AD-A143361] 22 p3663 N84-33219

REDUCTION (MATHEMATICS)
U OPTIMIZATION

REDUNDANCY
Design and development of the multifunction flight control reference system 03 p0316 N84-12065
A diagnosis scheme for sensors of a flight control system using analytic redundancy 03 p0316 N84-12067
The possibility of reduction of the subjective redundance of image signals with particular reference to contour coding — visual perception
[FUB-43-1982] 05 p0748 N84-14911
Connecting aircraft and external loads 06 p0770 N84-15048
Analysis of an error masking scheme for parallel computations
[AD-A136372] 09 p1374 N84-18971
Optimally robust redundancy relations for failure detection in uncertain systems
[NASA-CR-173166] 09 p1377 N84-18997
Development of a redundant computer system for flight augmentation
[BMFT-FB-W-83-027] 10 p1431 N84-19356
Active reliability engineering, technical concept and program plan. A solid-state systems approach to increased reliability and availability in military systems
[AD-A137541] 11 p1666 N84-20866
Component relevancy in multistate systems
[AD-A137727] 11 p1713 N84-21169
Sensor failure detection for jet engines using analytical redundance
[NASA-TM-83695] 15 p2262 N84-24585
Application of multifunction strapdown inertial system 16 p2447 N84-25698
Maximum likelihood decoding of AMI-coded digital transmission and additive Gaussian disturbance
[FI-44-TBR-91] 16 p2482 N84-25917
Improving the legibility of computer printouts
[BMFT-FB-DV-84-001] 16 p2542 N84-26315
Care 3: Hands-on demonstration and tutorial
[NASA-TM-85811] 17 p2749 N84-27448
The effect of component redundancy upon aircraft combat survivability
[AD-A141815] 19 p2964 N84-28784
Strict redundancy schemes for non-sequential detector reliability. Part 1: Analysis
[AD-A141875] 19 p3006 N84-29055
Design philosophy for reliable systems, including control
[DE84-012681] 20 p3279 N84-30614
Optimal measurement of ice-sheet deformation from surface-marker arrays
[NASA-CR-173877] 22 p3622 N84-32950
Fault-tolerant system considerations for a redundant strapdown inertial measurement unit
[NASA-CR-172426] 23 p3692 N84-33396

REDUNDANCY ENCODING
A real-time implementation of an advanced sensor failure detection, isolation, and accommodation algorithm
[NASA-TM-83553] 04 p0477 N84-13140

Redundancy relations and robust failure detection
[NASA-CR-173252] 07 p1058 N84-16854
Sensory redundancy management: The development of a design methodology for determining threshold values through a statistical analysis of sensor output data
[NASA-CR-173270] 07 p1059 N84-16859
Optimum cyclic redundancy codes for noisier channels 10 p1475 N84-19638

REEFS
Geotechnical and geologic design considerations for a shelf mounted OTEC (Ocean Thermal Energy Conversion) facility
[PB84-186147] 20 p3238 N84-30554

REELS
Design and development of military petroleum hoseline system
[AD-A134374] 07 p0960 N84-16222
Rotatable electric cable connecting system
[NASA-CASE-GSC-12899-1] 19 p3011 N84-29085

REENTRY
NT HYPERSONIC REENTRY
Space shuttle descent flight control design requirements and experiments Learned, Pt. 1 p 617-628 01 p0022 N84-10142
AFFTC overview of orbiter-reentry flight-test results 01 p0027 N84-10169
Radiative properties of advanced spacecraft heat shield materials
[NASA-CR-3740] 02 p0193 N84-11258
Evaluation of non-intrusive flow measurement techniques for a re-entry flight experiment
[NASA-CR-172142] 04 p0489 N84-13212
Space Nuclear Safety Program, September 1983
[DE84-007869] 14 p2224 N84-24344
Reentry analysis
[DE84-012640] 21 p3498 N84-32167
Columbia: The first five flights. Entry heating data series. Volume 6: The upper leeside surface centerline
[NASA-CR-171795] 22 p3541 N84-32414

REENTRY BODIES
U REENTRY VEHICLES

REENTRY EFFECTS
Trends in shuttle entry heating from the correction of flight test maneuvers 01 p0023 N84-10146
Orbiter windward surface entry Heating: Post-orbital flight test program update 01 p0024 N84-10150
Filler bar heating due to stepped tiles in the shuttle orbiter thermal protection system 01 p0024 N84-10155
Thermal response of Space Shuttle wing during reentry heating
[NASA-TM-85907] 18 p2802 N84-27785
Residual mechanical properties of Ti-6Al-4V after simulated Space Shuttle reentry
[NASA-TM-86294] 22 p3554 N84-32506
Effect of alloy chemistry and exposure conditions on the oxidation of titanium
[NASA-TM-86295] 22 p3555 N84-32507

REENTRY PHYSICS
Space nuclear safety program
[DE84-003558] 12 p1904 N84-22398
Columbia: The first five flights. Entry heating data series. Volume 6: The upper leeside surface centerline
[NASA-CR-171795] 22 p3541 N84-32414

REENTRY SHIELDING
Catalytic surface effects on space thermal protection system during Earth entry of flights STS-2 through STS-5 01 p0024 N84-10152
High altitude aerodynamic tests with simulated heat-shield outgassing
[AD-A132078] 04 p0492 N84-13227
A method for aerodynamic and aerothermodynamic conceptual design of capsule type reentry vehicle
[NAL-TR-779] 09 p1272 N84-18309
On the space shuttle wing thermal-structural analysis 16 p2457 N84-25755
Development of improved low-strain creep strength in Cabot alloy R-41 sheet — nickel base sheet alloy for reentry shielding
[NASA-CR-172392] 21 p3365 N84-31346
Residual mechanical properties of Ti-6Al-4V after simulated Space Shuttle reentry
[NASA-TM-86294] 22 p3554 N84-32506

REENTRY VEHICLES
NT ASTRO VEHICLE
NT MANEUVERABLE REENTRY BODIES
NT REUSABLE SPACECRAFT
Numerical techniques for high incidence reentry aerodynamics
[AD-A134178] 07 p0948 N84-16149
SP-100 program: Space reactor system and subsystem investigations
[DE84-003217] 08 p1231 N84-18045
A method for aerodynamic and aerothermodynamic conceptual design of capsule type reentry vehicle
[NAL-TR-779] 09 p1272 N84-18309
Integrating multi-objective optimization methodologies in BMD technology
[AD-A136161] 09 p1383 N84-19036
Development of the parachute recovery system for the LBRV-2 reentry vehicle
[DE84-001540] 12 p1766 N84-21518
Fundamentals of hypersonics: Aerodynamics and heat transfer 16 p2441 N84-25660
Hypersonic test facilities 16 p2441 N84-25661
Hypersonic static and dynamic stability. Part 3: Experimental techniques, experimental results and viscous effects 16 p2442 N84-25665
Multidirectional composites in ballistic and aerospace vehicles
[SNIAS-832-430-102] 16 p2458 N84-25759
Dust particles in high speed flows: Calculations of small particle reentry hydrodynamics
[DE84-010998] 20 p3186 N84-30245

REFERENCE ATMOSPHERES
Range reference atmosphere 0-70Km altitude, Wallops Island, Virginia
[AD-A131327] 02 p0254 N84-11661
Taquac, Guam Island. Range reference atmosphere 0-30 km altitude
[AD-A133618] 06 p0882 N84-15736
Proposals for VIRA (Venus International Reference Atmosphere): Solar and thermal radiation
[PR-829] 08 p1244 N84-18135

REFERENCE SYSTEMS
Design and development of the multifunction flight control reference system 03 p0316 N84-12065
The aircraft infrared measurements guide
[AD-A132598] 05 p0747 N84-14905
Documentation for the machine-readable version of the catalogue of 20457 Star positions obtained by photography in the declination zone -48 deg to -54 deg (1950)
[NASA-TM-85572] 13 p2070 N84-23416
Documentation of the GLAS fourth order general circulation model. Volume 1: Model documentation
[NASA-TM-86064-VOL-1] 14 p2179 N84-24048
Assurance of unity of tests of semiconductor products 17 p2637 N84-26868
Investigation of the combination of geodetic point aggregations
[SER-C-285] 18 p2866 N84-28199
Adaptive subject description in document retrieval 22 p3675 N84-33298

REFERENCES (STANDARDS)
U STANDARDS

REFINING
NT ELECTROREFINING
NT ELECTROSLAG REFINING
Refining of military jet fuels from shale oil. Part 4. Process computer modeling studies
[AD-A128891] 01 p0052 N84-10334
Innovative industrial-materials processes — potential for energy conservation
[DE83-016784] 03 p0405 N84-12649
Grain refining and microstructural modification during solidification
[AD-A134605] 07 p0974 N84-16314
Research into the electrodeposition of antimony
[BLL-OA-TRANS-3112-(6196.3)] 09 p1305 N84-18533
Method of refining 2,2-isopropylidenebis-3,5-dibromophenylene-4-oxydiethanol
[NASA-TM-77458] 10 p1453 N84-19492
High temperature solid oxide electrolytes for research in metallurgical processes and steelmaking 11 p1740 N84-21352
NASA broad-specification fuels combustion technology program 14 p2107 N84-23637
Impact assessment of reducing gasoline volatility
[PB84-152024] 14 p2133 N84-23781
Grain refinement of commercial aluminum by niobium and zirconium additions to the melt 15 p2307 N84-24841
MoO3, ex MoS2, with further processing of the metal-bearing waste sulfuric acid generated in the process
[BMFT-FB-T-83-297] 15 p2366 N84-25196
Computer analysis of effects of altering jet fuel properties on refinery costs and yields
[NASA-CR-174642] 18 p2820 N84-27908
Method and apparatus for producing high purity silicon
[DE84-011087] 20 p3163 N84-30090
Polycrystalline silicon study: Low-cost silicon refining technology prospects and semiconductor-grade polycrystalline silicon availability through 1988
[NASA-CR-173897] 22 p3662 N84-33213
Method for refining microstructures of prealloyed powder metallurgy titanium articles
[AD-D011162] 23 p3718 N84-33570
Method for refining microstructures of blended elemental powder metallurgy titanium articles
[AD-D011177] 23 p3718 N84-33571

REFLECTANCE
NT SPECTRAL REFLECTANCE
Radar resonance reflection from sets of plane dielectric layers
[AD-A128680] 01 p0062 N84-10406
Ultrasonic reflection from solid halfspaces and from solid plates
[AD-A129886] 01 p0140 N84-10916
Research and development for investigations of metallic adsorptions on metal surfaces by optical techniques complemented by dc resistivity and auger spectroscopy
[AD-A131739] 03 p0361 N84-12351
Graphical method for determining interflected daylight in clear climates
[DE83-011989] 03 p0475 N84-13128
Seasonal soybean crop reflectance
[E84-10049] 04 p0553 N84-13642
Investigation of soft X-ray reflective coatings
[DE84-000510] 04 p0610 N84-14025
Optical properties of natural minerals and other materials in the 350-50000 cM-1 spectral region
[AD-A133530] 05 p0918 N84-15965
Reflectance measurements, part 2 06 p0928 N84-16028
Properties of material in the submillimeter wave region (instrumentation and measurement of index of refraction)
[NASA-CR-175156] 07 p1006 N84-16524
A laboratory investigation of the reflective properties of simulated, optically thick clouds
[NASA-CR-175362] 08 p1190 N84-17755
Development of X-ray laser media. Measurement of gain and development of cavity resonators for wavelengths near 130 angstroms, volume 2
[AD-A136306] 09 p1320 N84-18622
Development of X-ray laser media. Measurement of gain and development of cavity resonators for wavelengths near 130 angstroms, volume 3
[AD-A136307] 09 p1320 N84-18623
Electrochemistry of anilines. 2: Oxidation to dications, electrochemical and UV/VIS spectroelectrochemical investigation
[AD-A136949] 10 p1454 N84-19498
The AXAF technology program: The optical tests
[NASA-TM-82570] 10 p1576 N84-20341
Atmospheric effects on remote sensing of the Earth's surface 12 p1832 N84-21943
Comprehensive understanding for vegetated scene radiance relationships 12 p1833 N84-21947
Case studies on convective storms, case study 1, 13 July 1978: First echo case
[PB84-147479] 12 p1862 N84-22134
Reflectivity measurements of laser gyro mirrors
[DFVLR-FB-83-35] 12 p1909 N84-22434
A new method for obtaining individual component spectra from those of complex mixtures
[AD-A139262] 14 p2122 N84-23719
Shock front pumped stokes and anti-stokes reflectivity contributions
[AD-A139134] 14 p2145 N84-23857
Manifestation of the Fermi resonance in surface polariton spectra
[NASA-TM-77386] 14 p2222 N84-24330
Diffusely reflecting paints including polytetrafluoroethylene and method of manufacture
[NASA-CASE-GSC-12883-1] 15 p2300 N84-24806
The effect of plasticizer on the polarizer of Poly(vinylidene fluoride) films
[AD-A140770] 17 p2626 N84-26806
Theory and measure of certain image norms in SAR 17 p2713 N84-27274
Optical constant determination of thin films condensed on transmitting and reflecting substrates
[AD-A140845] 17 p2768 N84-27578
Temporal albedo variations in Saturn's atmosphere 17 p2776 N84-27627
Amplitude-frequency method of measuring phase of reflection coefficient 18 p2826 N84-27942
The vertical profile of reflectivity as an indicator of the active regions in PEP experiment — Precipitation Enhancement Project (PEP) 18 p2887 N84-28320
Inversion of the acoustic plane wave reflection response of a layered ocean bottom
[AD-A132794] 18 p2928 N84-28570
LANDSAT-D investigations in snow hydrology
[E84-10156] 19 p3039 N84-29277
Molecular beam epitaxy of HgCdTe
[AD-A141574] 19 p3110 N84-29761
Snow reflectance from LANDSAT-4 Thematic Mapper 20 p3216 N84-30426
Analysis of directivity as a function of scan angle for planar arrays of radiating slots
[AD-P003503] 21 p3383 N84-31471
Radiometric calibration and processing procedure for reflective bands on LANDSAT-4 protoflight Thematic Mapper
[E84-10056] 21 p3426 N84-31731

Model cloud relationships
[AD-A142690] 21 p3447 N84-31871
Remote sensing for geobotanical prospecting
22 p3613 N84-32889
Portable reflectance spectrometer
[NASA-CASE-NPO-13556-1] 23 p3749 N84-33766
Spectral characterization of biophysical characteristics in a boreal forest: Relationship between Thematic Mapper band reflectance and leaf area index for Aspen
23 p3766 N84-33875
A comparison of storm tracking and extrapolation algorithms
[DOT-FAA-PM-84/1] 23 p3800 N84-34091
A model of the performance characteristics of silicon-gallium infrared detectors for low background applications
[AD-A143932] 23 p3825 N84-34256
Solvation and dielectric dispersion in optical electron transfer
[AD-A144183] 24 p3880 N84-34580

REFLECTED RADIATION
U REFLECTED WAVES

REFLECTED RAYS
U REFLECTED WAVES

REFLECTED WAVES
Transmission line transformers; theory and design data
[FOA-C-30327-E] 08 p1152 N84-17503

REFLECTING TELESCOPES
STEP flight experiments Large Deployable Reflector (LDR) telescope 08 p1112 N84-17231
Feed system for the Metsaehovi cooled 75-95 GHz receiver
[REPT-S-146] 15 p2328 N84-24978

REFLECTION
NT INFRARED REFLECTION
NT MACH REFLECTION
NT OPTICAL REFLECTION
NT SIGNAL REFLECTION
NT SPECULAR REFLECTION
NT WAVE REFLECTION
Ultrasonic reflection from solid halfspaces and from solid plates
[AD-A129886] 01 p0140 N84-10916
Optical analysis of a gimballed mirror system
[DE83-016576S] 02 p0295 N84-11934
Multiple scattering from a random and inhomogeneous slab 06 p0863 N84-15624
Dip-moveout by Fourier transform
06 p0876 N84-15699
Scattering distribution characteristics of rare gases reflected from metal surface with absorbed gas molecules
[NAL-TR-761] 09 p1394 N84-19101
Reflected overpressure impulse on a finite structure
[AD-A137259] 11 p1653 N84-20792
Hydrodynamic interactions between particles in low-Reynolds-number flow: A modular approach
[AD-A139269] 14 p2146 N84-23859
Regular reflection of strong shock wave by wedge surface 17 p2647 N84-26932
Microwave reflection measurements of the dielectric properties of concrete
[PB84-173624] 17 p2654 N84-26976
Molecular beam epitaxy of HgCdTe
[AD-A141574] 19 p3110 N84-29761
Preliminary design of a 10-kW thermophotovoltaic system for space applications
[NASA-TM-83768] 22 p3543 N84-32427
Focusing twist reflector for electron-cyclotron resonance heating in the Tandem Mirror Experiment-upgrade
[DE84-012954] 22 p3578 N84-32663

REFLECTION COEFFICIENT
U REFLECTANCE

REFLECTION NEBULAE
Near infrared observations of the visual reflection nebulae NGC 1023, NGC 2023, and NGC 2068
18 p2948 N84-28695
The behaviour of the 3.28 micron dust feature in NGC 2024 18 p2949 N84-28696
New infrared observations of IRS1, IRS3, and the adjacent nebula in the OMC-2 cluster
18 p2950 N84-28705
The near infrared polarization of NGC 7023 — visual reflection nebula 18 p2950 N84-28707

REFLECTIVITY
U REFLECTANCE

REFLECTOMETERS
Development of a portable specular reflectometer for monitoring solar-mirror materials
[DE83-016065] 03 p0442 N84-12901
Reflectance measurements, part 2
06 p0928 N84-16028
Optical time-domain reflectometer performance and calibration studies
[PB84-110964] 09 p1390 N84-19082
Open water and thin ice detection in the Arctic marginal ice zone using reflectometer signal analysis
[AD-A136043] 10 p1543 N84-20110
Measuring roughness of ultrasmooth surfaces by reflectometric method 13 p1974 N84-22607
The multistate reflectometer
[AD-A139318] 15 p2407 N84-25448
Microwave detection of surface and volume moisture in building walls and related structures
[CISE-2111] 16 p2481 N84-25912
Hot spot reflectance measurements applied to green biomass estimation and crop growth monitoring
[NLR-MP-83037-U] 17 p2721 N84-27323
Microspectrophotometer for crystal analysis by absorption reflectometry 20 p3289 N84-30883

REFLECTORS
NT PARABOLIC REFLECTORS
NT PARABOLOID MIRRORS
NT RADAR CORNER REFLECTORS
NT RETROREFLECTORS
NT SOLAR COLLECTORS
NT SOLAR REFLECTORS
NT WIGGLER MAGNETS
A low loss quasioptical cavity for a two-stage Free Electron Laser (FEL)
[AD-A133321] 06 p0850 N84-15541
Phased-array-fed antenna configuration study. Volume 1: Technology assessment
[NASA-CR-168231] 07 p0991 N84-16423
Development of X-ray laser media. Measurement of gain and development of cavity resonators for wavelengths near 130 angstroms, volume 2
[AD-A136306] 09 p1320 N84-18622
Public announcement of flight opportunity for materials science experiments on the Spacelab Mission D1: Extract
[NASA-TM-77277] 10 p1434 N84-19378
The research on short backfire antenna
[AD-A137209] 10 p1485 N84-19712
Measurements of direct path and folded path optical scintillation using a corner cube reflector
[AD-A138485] 12 p1908 N84-22429
Secondary pattern computation of an arbitrarily shaped main reflector
[NASA-TM-85527] 16 p2481 N84-25909
Reduction of the strut radiation of reflector antennas
[FI-454-TBR-35] 16 p2482 N84-25918
Optical system with reflective baffles
[NASA-CASE-ARC-11502-1] 16 p2557 N84-26400
Support structures for large infrared telescopes
[NASA-CR-3800] 20 p3200 N84-30328
Proceedings of the Antenna Applications Symp., volume 2
[AD-A142754] 21 p3383 N84-31467
Simulation requirements for the Large Deployable Reflector (LDR)
[NASA-CR-171140] 21 p3523 N84-32317
Large Deployable Reflector Science and Technology Workshop. Volume 3: Systems and Technology Assessment
[NASA-CP-2275-VOL-3] 21 p3523 N84-32318
Large Deployable Reflector Science and Technology Workshop. Volume 3: Systems and technology assessment. Introduction 21 p3523 N84-32319
Technology Panel reports 21 p3523 N84-32320
Large Deployable Reflector Science and Technology Workshop. Volume 3: Systems and technology assessment. Conclusions 21 p3523 N84-32321
Studies of low-mass star formation with the large deployable reflector
[NASA-TM-85960] 21 p3524 N84-32328
Research relative to high energy astrophysics — large area modular array of reflectors, X-ray spectroscopy, and thermal control
[NASA-CR-173878] 22 p3678 N84-33315
Development of a 611 MHz feed for a 9-meter reflector
[NASA-TM-86300] 23 p3730 N84-33641
Highly accurate inflatable reflectors
[AD-A143628] 23 p3825 N84-34255

REFLEXES
NT CONDITIONED REFLEXES
Vestibulo-ocular reflex gain in man during active versus passive oscillation and the influence of voluntary gaze-control tasks
[AD-A132006] 03 p0415 N84-12717
The role of neural reflexes in control of the cardiovascular system during stress
[AD-A140938] 18 p2899 N84-28393
Physiological functioning of the ear and masking
19 p3069 N84-29468

REFRACTED RADIATION
U REFRACTED WAVES

REFRACTED RAYS
U REFRACTED WAVES

REFRACTED WAVES
Seismic properties of the crust and uppermost mantle of North America
[NASA-CR-175134] 06 p0677 N84-15708

REFRACTION
NT ATMOSPHERIC REFRACTION
NT BIREFRINGENCE
NT RADIO WAVE REFRACTION
LIDAR (light detection and ranging) measurements for astronomical refraction. Feasibility and system definition study
[AD-A130740] 01 p0147 N84-10966
Spherical wave refraction with short distances of source from interface 17 p2702 N84-27212
An experimental investigation of the effect of boundary layer refraction on the noise from a high-speed propeller
[NASA-TM-83764] 23 p3821 N84-34230

REFRACTIVE INDEX
U REFRACTIVITY

REFRACTIVITY
Refractive index and equation of state of a shock-compressed aqueous solution of zinc chloride
[DE83-016302] 02 p0220 N84-11443
High precision material study at near millimeter wavelengths
[AD-A133575] 06 p0918 N84-15966
Journal of Research of the National Bureau of Standards. Volume 88, Number 5, September-October 1983
[PB84-125293] 06 p1139 N84-17406
Linear time-variant space-variant filters and the WKB approximation
[AD-A134886] 08 p1228 N84-18021
Two photon excitation as a tool for atmospheric and kinetic research
[NASA-CR-175378] 08 p1228 N84-18026
Research on ferroelectric materials for millimeter wave application
[AD-A137128] 10 p1586 N84-20405
Optical and mechanical properties of single mode cables at 1300 nm 11 p1726 N84-21258
Group-type hydrocarbon standards for high-performance liquid chromatographic analysis of middistillate fuels
[NASA-TP-2317] 14 p2131 N84-23774
Optical extinction theorem theory of optical multi-stability bifurcations and turbulence in the Fabry-Perot interferometer 14 p2239 N84-24442
The estimation and correction of refractive bending in the AR3-D tactical radar systems
15 p2325 N84-24958
Adaptive compensation for atmospheric turbulence effects on optical propagation 15 p2325 N84-24960
Effects of atmospheric turbulence on optical propagation 15 p2325 N84-24961
Tropospheric propagation assessment
15 p2326 N84-24965
Distortion of a narrow radio beam in a convective medium 15 p2326 N84-24966
Anomalous propagation and radar coverage through inhomogeneous atmospheres 15 p2326 N84-24967
Imaging by active laser methods
[ESA-TT-804] 16 p2497 N84-26022
Is VHF Fresnel reflectivity due to low frequency buoyancy waves? 17 p2684 N84-27089
Fresnel zone considerations for reflection and scatter from refractive index irregularities
17 p2684 N84-27091
Origin of refractive index fluctuations in the mesosphere as opposed to the stratosphere and troposphere
17 p2686 N84-27101
Parametrization of Fresnel returns in middle-atmosphere radar experiments 17 p2689 N84-27123
Relationship of strength of turbulence to received power 17 p2689 N84-27126
Data processing techniques used with MST radars: A review 17 p2694 N84-27159
Optical constant determination of thin films condensed on transmitting and reflecting substrates
[AD-A140845] 17 p2766 N84-27578
10.6 micrometer gradient index optical component design
[AD-A141343] 18 p2932 N84-28594
New approaches to photothermal spectroscopy
[DE84-009237] 21 p3359 N84-31310
Experimental study of strong nonlinear-optics effects in liquid crystals 21 p3483 N84-32071
Reflection of electromagnetic waves from inhomogeneous media 22 p3566 N84-32586
Infrared absorption spectrum of free carriers in polar semiconductors
[DE84-013276] 22 p3667 N84-33248
Simultaneous remote sensing of atmospheric turbulence by radar optical means: A comparison
23 p3775 N84-33932

Atmospheric refraction error and its compensation for passive optical sensors
[AD-A144377] 24 p3963 N84-35098

REFRACTOMETERS
A GaAs refractometer for tropospheric studies
15 p2324 N84-24952

REFRACTORIES
Sintering behavior of refractories in the ternary system ZrO2-Al2O3-Cr2O3 in dependence of the firing atmosphere
[BMFT-FB-T-83-105] 02 p0197 N84-11285

REFRACTORY COATINGS
Chemical erosion of first-wall materials by atomic hydrogen at high temperatures
[DE83-017161] 03 p0450 N84-12962

REFRACTORY MATERIALS
NT CHROMIUM
NT IRIDIUM
NT MOLYBDENUM
NT MOLYBDENUM ALLOYS
NT NIOBIUM
NT NIOBIUM ALLOYS
NT OSMIUM
NT PORCELAIN
NT REFRACTORIES
NT REFRACTORY METAL ALLOYS
NT REFRACTORY METALS
NT RENE 95
NT RHENIUM
NT RHENIUM ALLOYS
NT TANTALUM
NT TANTALUM ALLOYS
NT TUNGSTEN
NT TUNGSTEN ALLOYS
Fabrication and properties of multilayer structures
[AD-A131934] 03 p0451 N84-12969
Heat transfer retardation at elevated temperatures. Phase 1: Analysis of heat transfer retardation configurations and materials
[AD-A133509] 06 p0926 N84-16017
Influence of deflocculant on the isoelectric point of refractory powders: Considerations on the action of deflocculant
[NASA-TM-77364] 07 p0969 N84-16277
Structure, preparation and properties of refractory compounds and systems (hard materials and hard metals)
[NASA-TM-77076] 07 p0974 N84-16309
Refractory materials for high-temperature thermoelectric energy conversion
[NASA-CR-173159] 08 p1136 N84-17388
S-I-S mm-wave mixers and detectors
[AD-A134762] 08 p1235 N84-18074
Investigation of the thermophysical properties of high-melting materials with the aid of a complex of instruments
[NASA-TM-77402] 10 p1453 N84-19491
Recent trends and theoretical background in sintering of silicon carbide ceramics
[NASA-TM-77378] 11 p1636 N84-20698
High-temperature inclusions in the Murchison meteorite 11 p1755 N84-21454
Swedish activities in new ceramic materials, processes 14 p2119 N84-23696
Achievements and plans of the Solar Thermal Advanced Research Center
[DE84-005460] 14 p2172 N84-24010
Thermo-mechanical and thermal behavior of high-temperature structural materials
[AD-A140520] 16 p2461 N84-25775
Metallurgy: Development of material recovery
16 p2465 N84-25795
Status of new aerothermodynamic analysis tool for high-temperature resistant transparencies
[AD-P003236] 17 p2598 N84-26849
Influence of container interactions on the vaporization thermodynamics of nickel
[MRL-R-884] 17 p2622 N84-26784
Synthesis of polyheteroarylenes for highly heat-resistant materials
[AD-A140610] 17 p2626 N84-26804
Chemical news (selected articles)
[AD-A140887] 17 p2627 N84-26808
Hot corrosion in aircraft engines
[DFVLR-MITT-84-04] 18 p2796 N84-27742
Orbiting dynamic compression laboratory
[NASA-CR-173704] 18 p2798 N84-27755
The determination of the Bodner material coefficients for indium 718 and their effects on cyclic loading
[AD-A141174] 18 p2814 N84-27861
Synthesis of refractory materials
[DE84-011045] 20 p3156 N84-30041
Magnesia refractories produced from chemically modified periclase grains and Mg(OH)2 slurries
[PB84-178979] 20 p3165 N84-30099
The nature and origin of refractory inclusions in the Allende meteorite 22 p3678 N84-33318
Coating developments to restrict strategic materials usage 23 p3704 N84-33483
Materials for high-temperature thermoelectric conversion
[NASA-CR-173969] 23 p3786 N84-34011

REFRACTORY METAL ALLOYS
NT MOLYBDENUM ALLOYS
NT NIOBIUM ALLOYS
NT RHENIUM ALLOYS
NT TANTALUM ALLOYS
NT TUNGSTEN ALLOYS
Formation of silicide contacts using codeposited refractory metals alloy films
[AD-A142879] 21 p3391 N84-31519
Influence of direct current on temperature gradient in directionally solidifying ingot of alloy YuNDK35T5
[BLL-M-35684-(5828.4)] 22 p3553 N84-32495

REFRACTORY METALS
NT CHROMIUM
NT IRIDIUM
NT MOLYBDENUM
NT NIOBIUM
NT OSMIUM
NT RHENIUM
NT TANTALUM
NT TUNGSTEN
Replacing critical and strategic refractory metal elements in nickel-base superalloys — NASA's COSAM program
[NASA-TM-83528] 04 p0498 N84-13264
A melt for the electrolytic application of titanium plating
[BLL-OA-TRANS-3111-(6L96.3)]
06 p0804 N84-15241
Studies of silicon refractory metal interfaces: Photoemission study of interface formation and compound nucleation
[AD-A135340] 08 p1131 N84-17358
The cathode material for a plasma-arc heater
[BLL-OA-TRANS-3126-(6196.3)]
08 p1232 N84-18053
Absorbable-susceptor joining of ceramic surfaces
[NASA-CASE-NPO-15640-1] 13 p1962 N84-22748
Effect of refractory elements on the coherency strain and flow stress on nickel-base superalloys
[AD-A142220] 19 p2994 N84-28975
Microstructural studies of hydrogen and deuterium in BCC refractory metals
[DE84-011506] 21 p3367 N84-31357
Sodium compatibility of refractory metal alloy/304L braze joints
[DE84-012877] 21 p3368 N84-31364
Refractory alloy technology for space nuclear power applications
[DE84-001745] 21 p3497 N84-32166
Platinum group coatings for refractory metals
[AD-A143792] 23 p3718 N84-33568

REFRASIL (TRADEMARK)
U FIBERS
U SILICON DIOXIDE

REFRIGERANTS
Vapor-phase heat-transport system
[DE84-001341] 04 p0535 N84-13516
Development of a residential gas-absorption heat pump
[DE83-017218] 04 p0536 N84-13526
A helium-3 refrigerator employing capillary confinement of liquid cryogen 06 p0821 N84-15353
Investigation of a rainwater flow and temperature measuring device in a moist atmosphere refrigerant — cooling ponds
[HT-31.82.11] 09 p1317 N84-18602
Frigair 1983. Papers
[CSIR-S-281] 11 p1639 N84-20717
Design and application of two stage evaporative cooling systems 11 p1640 N84-20720
Overview of DOE-sponsored heat pump research
[DE84-007561] 15 p2333 N84-25011
Vapor-phase heat-transport system
16 p2518 N84-26161
An investigation of single-substance horizontal two-phase flow
[DE84-012292] 21 p3403 N84-31587

REFRIGERATING
A general computer model for predicting the performance of gas sorption refrigerators
06 p0820 N84-15349
LaNi5 hydride cryogenic refrigerator test results
06 p0821 N84-15350
Computer control of refrigerating plants
11 p1640 N84-20724
Late developments in the field of heat recovery
11 p1640 N84-20727
Investigations into the use of ice for cooling deep mines 11 p1641 N84-20728
Magnetic refrigeration: The promise and the problems
[DE84-007481] 19 p3002 N84-29026
M.A.N. heat pumps in industry and communities, and their efficiency 23 p3747 N84-33755

REFRIGERATING MACHINERY
NT REFRIGERATORS
Development of a high efficiency compressor/expander for an air cycle air conditioning system
[AD-A130976] 02 p0229 N84-11502
Satellite refrigerator compressors with the oil and moisture removal systems
[DE83-016079] 03 p0384 N84-12502
Fermilab satellite refrigerator compressors with the oil- and moisture-removal systems
[DE83-017328] 04 p0515 N84-13386
Parametric testing and evaluation of a free-piston Stirling engine/linear-compressor system
[DE83-017262] 04 p0545 N84-13590
Analysis of a high-frequency Stirling Cycle compressor for cryogenic cooling in space
[NASA-TM-85066] 06 p0852 N84-15555
The potential of the single screw compressor
11 p1640 N84-20722
Capacity control of screw compressor units
11 p1640 N84-20726
Research and development of energy-efficient high back-pressure compressor
[DE84-011827] 20 p3170 N84-30131

REFRIGERATORS
A helium refrigerator with features for supercritical pressure cooling
[DE84-017759] 04 p0515 N84-13383
Combined cold compressor/ejector helium-refrigerator cycle
[DE83-017764] 04 p0515 N84-13385
A rotary vane open reversed Brayton cycle air conditioning and refrigeration system
04 p0543 N84-13574
Forced two-phase cooling of the TPC superconducting solenoid
[DE83-017749] 04 p0613 N84-14049
Refrigeration for Cryogenic Sensors
[NASA-CP-2287] 06 p0818 N84-15327
US Navy program in small cryocoolers
06 p0818 N84-15328
Japanese activities in refrigeration technology
06 p0818 N84-15330
Spacecraft-borne long life cryogenic refrigeration: Status and trends 06 p0818 N84-15331
Regeneration experiments below 10K in a regenerative-cycle cryocooler 06 p0818 N84-15332
A cryocooler for applications requiring low magnetic and mechanical interference 06 p0818 N84-15333
An approach to optimization of low-power Stirling cryocoolers 06 p0818 N84-15334
Regeneration efficiency, shuttle heat loss and thermal conductivity in epoxy-composite annualr gap regenerators from 4K to 80K 06 p0818 N84-15335
A 10 deg K triple-expansion Stirling-cycle cryocooler
06 p0819 N84-15336
Compact Claude cycle refrigerator for laboratory use
06 p0819 N84-15338
A small and light weight heat exchanger for on-board helium refrigerator 06 p0819 N84-15339
Life test performance of a Philips rhombic-drive refrigerator with bellows seals 06 p0819 N84-15341
Split-Stirling, linear-resonant, cryogenic refrigerators for detector cooling 06 p0819 N84-15342
Computer program for analysis of split-Stirling-cycle cryogenic coolers 06 p0820 N84-15344
A magnetically suspended linearly driven cryogenic refrigerator 06 p0820 N84-15345
Gifford-McMahon refrigerator with split cold head
06 p0820 N84-15346
A helium-3 refrigerator employing capillary confinement of liquid cryogen 06 p0821 N84-15353
Cascade Joule-Thomson refrigerators
06 p0821 N84-15354
Suitability of commercially available laboratory cryogenic refrigerators to support shipboard electro-optical systems in the 10 - 77 Kelvin region 06 p0821 N84-15355
Low cost microminiature refrigerators for large unit volume applications 06 p0822 N84-15356
4.0 K cryocooler project
[DE84-000332] 06 p0822 N84-15358
Research and development of energy-efficient appliance motor-compressors. Volume 4: Production demonstration and field test
[DE84-005083] 10 p1472 N84-19611
Reciprocating magnetic refrigerator employing tandem porous matrices within a reciprocating displacer
[NASA-CASE-NPO-16257-1] 15 p2305 N84-24830
Qualification testing of solar photovoltaic powered refrigerator freezers for medical use in remote geographic locations
[NASA-CR-168181] 15 p2361 N84-25162

Solar photovoltaic powered refrigerators/freezers for medical use in remote geographic locations
[NASA-CR-168268] 15 p2361 N84-25163
Gas-fired duplex free-piston Stirling refrigerator
[PB84-171537] 17 p2639 N84-26884
Design considerations for a HE-3 refrigerator for space applications
[NASA-TM-85973] 18 p2836 N84-28001
He-3 cooling systems for space
[NASA-TM-85985] 20 p3183 N84-30226
Magnetic refrigeration development 22 p3573 N84-32626

REFUELING
NT AIR TO AIR REFUELING
Electrostatic charging test for aviation fuel filters
[AD-A136666] 10 p1433 N84-19366
An industrial hygiene evaluation of F-16 aircraft refueling inside closed aircraft shelters
[AD-A136501] 12 p1866 N84-22157
The feasibility, practicality and utility of P-3 inflight refueling
[AD-A143419] 22 p3535 N84-32382
Refueling considerations for liquid-hydrogen fueled vehicles
[DE84-012623] 22 p3562 N84-32557

REGENERATION
On the range of a regenerative sequence
[AD-A141652] 19 p3066 N84-29586

REGENERATION (ENGINEERING)
Supercritical fluid regeneration of adsorbents
[PB83-207597] 01 p0058 N84-10377
Crew and life support: ECLSS 09 p1268 N84-18280
Backward limits of non-time-homogeneous regenerative processes
[CTH-MATH-1984-09] 19 p3095 N84-29654
Adsorbent regenerator
[DE84-012969] 22 p3549 N84-32468

REGENERATION (PHYSIOLOGY)
Studies of electrically stimulated rat limb and peripheral nerve regeneration
[AD-A134358] 06 p1197 N84-17806

REGENERATIVE COOLING
Improved Two-Dimensional Kinetics (TDK) computer program
[NASA-CR-170922] 03 p0346 N84-12248
Regeneration efficiency, shuttle heat loss and thermal conductivity in epoxy-composite annular gap regenerators from 4K to 80K 06 p0818 N84-15335
An application of gap regenerator/expander precooled by two stage G-M refrigerator 06 p0819 N84-15337
Oxygen/hydrogen thrusters for the space station auxiliary propulsion systems 20 p3140 N84-29934

REGENERATIVE CYCLES
U REGENERATION (ENGINEERING)

REGENERATIVE FEEDBACK
U POSITIVE FEEDBACK

REGENERATIVE FUEL CELLS
The Boeing flywheel study 03 p0344 N84-12235
Analysis of regenerative fuel cells
[NASA-CR-171783] 04 p0557 N84-13671
Design considerations for a 10-kW integrated hydrogen-oxygen regenerative fuel cell system
[NASA-TM-83664] 13 p2008 N84-23023
An integrated space station propulsion system 20 p3139 N84-29933
Regenerative hydrogen-oxygen fuel cell-electrolyzer systems for orbital energy storage 23 p3735 N84-33670

REGENERATORS
NT THERMOSIPHONS
Effects of pressure-drop correlations on Stirling-engine predicted performance
[DE83-017279] 03 p0384 N84-12501
Development of recuperator manufacturing techniques, phase 2
[AD-A132448] 04 p0544 N84-13581
An application of gap regenerator/expander precooled by two stage G-M refrigerator 06 p0819 N84-15337
The theory of an active magnetic regenerative refrigerator 06 p0821 N84-15351
4.0 K cryocooler project
[DE84-000332] 06 p0822 N84-15358
Ceramic tube materials and processing development
[PB84-151653] 14 p2135 N84-23795
Two-stage regenerative microwave amplifiers with reduced nonlinear distortions 17 p2638 N84-26878
High temperature metallic recuperator
[PB84-207869] 22 p3564 N84-32575

REGIONAL PLANNING
NT URBAN PLANNING
Developmental possibilities and restrictions in air transport — conferences
[ESA-TT-744] 10 p1423 N84-19307
Possibilities for the future organization of air transport in the European community 10 p1424 N84-19309
Transport infrastructure: Is planning still achievable — airport planning 10 p1424 N84-19310
Frequency management in the United Kingdom for private mobile radio systems 10 p1476 N84-19645
Evolution of public land mobile telephone systems in Europe 10 p1477 N84-19649
Development of the public mobile radio services in Italy 10 p1477 N84-19651
Raster processing for regional planning tasks 20 p3227 N84-30507

REGIONS
NT AMAZON REGION (SOUTH AMERICA)
NT ANTARCTIC REGIONS
NT ARCTIC REGIONS
NT AURORAL ZONES
NT BRILLOUIN ZONES
NT D REGION
NT E REGION
NT EQUATORIAL REGIONS
NT F REGION
NT FRESNEL REGION
NT HABITATS
NT NEW ENGLAND (US)
NT NULL ZONES
NT PACIFIC NORTHWEST (US)
NT PANAMA CANAL ZONE
NT POLAR REGIONS
NT REMOTE REGIONS
NT ROSS ICE SHELF
NT TEMPERATE REGIONS
NT TROPICAL REGIONS
Characteristics of distinctive regions comprising stellar atmospheres 09 p1415 N84-19257
Observed distinctive radial sequences of the distinctive atmospheric regions comprising stellar atmospheres 09 p1415 N84-19258
Inferences on the thermodynamic characteristics of a star from the observed distinctive radial sequences of the distinctive atmospheric regions comprising that stellar atmosphere 09 p1415 N84-19259
Summary of workshops concerning regional seismic source zones of parts of the conterminous United States convened by the US Geological Survey 1979 - 1980, Golden, Colorado
[USGS-CIRC-898] 14 p2174 N84-24025
Investigation of role of subsurface zones in wear of materials
[DE84-012752] 21 p3368 N84-31365
Geology of the Gualan and Southern Sierra de las Minas Quadrangles, Guatemala 21 p3441 N84-31834

REGISTERS (COMPUTERS)
NT ACCUMULATORS (COMPUTERS)
Automated synthesis of digital hardware modules: Simulation and verification of interconnections
[AD-A135298] 08 p1210 N84-17889

REGOLITH
Analysis of regolith electromagnetic scattering as constrained by high resolution Earth-based measurements of the lunar microwave emission
[NASA-CR-174577] 05 p0764 N84-15012
Lunar sample analysis
[NASA-CR-171771] 11 p1758 N84-21477
Geologic studies of outer solar system satellites: Iapetus and Europa 13 p2075 N84-23448
Optical studies of moon rock samples at various degrees of maturity 19 p2975 N84-28861

REGRESSION (STATISTICS)
U REGRESSION ANALYSIS

REGRESSION ANALYSIS
NT REGRESSION COEFFICIENTS
Effects of impact acceleration on somatosensory evoked potentials
[AD-A130260] 01 p0113 N84-10734
A critical analysis of the uses of multiple regression in the study of human judgement
[AD-A131224] 01 p0116 N84-10755
Constrained nonlinear least squares
[AD-A130502] 01 p0132 N84-10862
Robust ABLUE's (Asymptotically Best Linear Unbiased Estimators) for location and scale parameter estimation
[AD-A130752] 01 p0132 N84-10867
Selection procedures for optimal subsets of regression variables
[AD-A131567] 02 p0285 N84-11869
TRAN-STAT (statistics for environmental studies) no. 20, May 1982
[DE83-015096] 02 p0295 N84-11871
Estimation of the ridge constant: An approach based on the condition index
[DE83-017955] 03 p0428 N84-12805
Models of maintenance resources interaction: Peacetime operations
[AD-A131379] 03 p0457 N84-13011
Selecting a subset of regression variables so as to maximize the prediction accuracy at a specified point
[CSIR-TWISK-275] 04 p0591 N84-13903
A statistical approach for determining subsurface thermal structure from sea surface temperature in the northeast Pacific Ocean
[AD-A132204] 05 p0711 N84-14658
Nonlinear regression analysis methodology for the estimation of detection probabilities from empirical data
[AD-A134078] 05 p0727 N84-14770
Microcomputer scientific software series 2: General linear model-regression
[PB83-263632] 05 p0731 N84-14796
On the use of marginal likelihood in time series model estimation
[AD-A132828] 05 p0740 N84-14862
Measures of nonlinearity for segmented regression models
[AD-A132838] 05 p0740 N84-14864
Multiplication models in projection pursuit
[DE84-001142] 05 p0741 N84-14866
A law of the iterated logarithm for non-parametric regression function estimators
[AD-A133260] 06 p0901 N84-15847
On jackknifing kernel regression function estimators
[AD-A133236] 06 p0904 N84-15867
On the maximum likelihood estimate for logistic errors-in-variables regression models
[AD-A133253] 06 p0904 N84-15868
Fitting a multiple regression function
[AD-A133482] 06 p0905 N84-15874
Projection pursuit regression: Some mathematics
[AD-A134544] 07 p1063 N84-16894
Empirical analysis of meandering and flow characteristics in laboratory and natural channels
[DE84-003461] 08 p1179 N84-17879
On the robust rank analysis of linear models with nonsymetric error distributions
[AD-A135792] 09 p1377 N84-18894
A unified approach to ARMA (autoregressive-moving average) model identification and preliminary estimation
[AD-A136426] 09 p1381 N84-19020
Comment on graphical methods for assessing logistic regression models by Landwehr, Pregibon and Shoemaker
[AD-A135684] 09 p1383 N84-19031
Predictions: Also an astronomical tool 09 p1410 N84-19219
Some applications of multiple regression analysis — in astronomy 09 p1410 N84-19220
Predicting variations in Earth rotation — for clock synchronization 09 p1411 N84-19225
Crop area estimation based on remotely-sensed data with an accurate but costly subsample
[E84-10067] 10 p1521 N84-19958
Statistical models for estimating overhead costs
[AD-A137351] 10 p1593 N84-20444
Terrain variables improve modeling of Richardson numbers less than unity in the lower atmosphere
[AD-A137926] 11 p1671 N84-20906
Regression analysis of fragment perforation data
[PML-1982-4] 12 p1821 N84-21873
Comparison of AMSU temperature soundings with those produced by HIRS and AMTS 12 p1851 N84-22057
Bayes least squares linear regression is asymptotically full Bayes: Estimation of spectral densities
[AD-A136351] 12 p1897 N84-22352
Analysis of anelastic relaxations controlled by a spectrum of relaxation times
[DE84-006014] 12 p1915 N84-22479
A comparison of several alternatives to maximum likelihood for the Weibull distribution
[AD-A138721] 13 p2036 N84-23206
A regression model for the temporal development of soil pipes and associated gullies in the alluvial-fill valley of the Rio Puerco, central New Mexico 13 p2084 N84-23602
Surveillance report. Stage I dissected motors. Phase XIV. Propellant and component testing
[AD-A139201] 14 p2132 N84-23777
Application of the principal component method to trajectory estimation
[AD-P002951] 14 p2199 N84-24191
Characterization and estimation of 2-dimensional ARIMA (Autoregressive Moving Average) models
[AD-A139120] 14 p2211 N84-24279
Bias in nonlinear regression
[AD-A139239] 14 p2218 N84-24308
Residuals in nonlinear regression
[AD-A139309] 14 p2218 N84-24311
A comparative look at sunspot cycles
[NASA-TP-2325] 14 p2251 N84-24520
Nonlinear least squares regression using STAR-PAC: The standards time series and regression package
[PB84-166214] 15 p2394 N84-25365
Low-level stratus prediction using binary statistical regression: A report using Moffett Field data
[AD-A140468] 16 p2551 N84-26370

Use of transformed LANDSAT data in regression estimation of crop acreages 17 p2708 N84-27246
Introduction to STARPAC. The standards time series and regression package
[PB84-178367] 17 p2755 N84-27492
An autoregressive process for Beta random variables
[AD-A140848] 17 p2759 N84-27514
A generalization of autocorrelation and partial autocorrelation functions useful for identification of ARMA(p,q) processes
[AD-A140860] 17 p2759 N84-27516
A note on the derivation of theoretical autocovariances for ARMA models
[AD-A140829] 17 p2760 N84-27527
Regression analysis technique for air data sensor calibration with an inertial navigation system
[DFVLR-MITT-84-03] 18 p2791 N84-27716
Identification of aerosol composition from multi-wavelength lidar measurements
[NASA-CR-173445] 18 p2877 N84-28266
Regression methods for binomial and Poisson distributed data
[DE84-009714] 18 p2927 N84-28564
Program PREGA pivotal regression analysis of gamma-ray spectra from NaI(T1) detectors for the ND6620 computer
[AD-A141539] 19 p3077 N84-29520
Jackknife and bootstrap inference in regression and a class of representations for the LSE
[AD-A141505] 19 p3093 N84-29641
Studies of statistical techniques to evaluate weather modification. Volume 1: Reports of OSET
[PB84-182906] 20 p3248 N84-30620
Overground Excess Sound Attenuation (ESA). Volume 2: Analysis of data for flat grassy terrain conditions
[AD-A142420] 20 p3291 N84-30892
Anthropometric and mass distribution characteristics of the adult female, revised
[AD-A143096] 21 p3457 N84-31939
Bayesian models for response surfaces, 2: Estimating the response surface
[AD-A142768] 21 p3471 N84-32001
Bayesian models for response surfaces. 1: The equivalence of several models and their relationship to smoothing splines
[AD-A142843] 21 p3472 N84-32003
Using statistical tools
[RAND/N-2121-PSSP] 22 p3647 N84-33124
Robust C(Alpha)-type tests for linear models
[AD-A143177] 22 p3648 N84-33125
Bounded-influence inference in regression
[AD-A143195] 22 p3648 N84-33126
Robust model selection in regression
[AD-A143209] 22 p3648 N84-33127
Quality measures for estimating the proportions of different classes within a single image resolution element (Pbat)
[INPE-2791-PRE/354] 23 p3763 N84-33852
An analysis of the effectiveness of the problem solving skills for managers training package--USCG
[AD-A144017] 23 p3834 N84-34317
On the estimation of the 1st-order autoregressive parameter
[AD-A144284] 24 p3950 N84-35014
Tests for sphericity under correlated multivariate regression equations model
[AD-A144658] 24 p3952 N84-35024

REGRESSION COEFFICIENTS
SIMTBED: A graphical test bed for analyzing and reporting the results of a statistical simulation experiment
[AD-A136812] 10 p1563 N84-20243
Development of color criteria for advanced displays
[AD-A143246] 22 p3630 N84-33006

REGULARITY
Regular and stochastic motions of charged particles in electrostatic waves
[IPF-83-7] 14 p2223 N84-24341
Periodicity and absolute regularity
[MC-SW-97/83] 19 p3094 N84-29651
Applications of the Mallavin calculus, part 2
[REPT-83-PT-2] 21 p3476 N84-32032

REGULATION
U CONTROL

REGULATIONS
Develop a normative or descriptive model of the international/domestic civil aviation industry, volume 3
[AD-A131678] 03 p0314 N84-12051
Develop a normative or descriptive model of the international/domestic civil aviation industry, volume 2
[AD-A131677] 03 p0314 N84-12052
Develop a normative or descriptive model of the international/domestic civil aviation industry. Volume 1: Executive summary
[AD-A131676] 03 p0314 N84-12053
Integrated logistic supportability (Aviation materiel)
[AD-A132367] 04 p0478 N84-13146
Building systems and smoke control 04 p0511 N84-13347
Temperature rise of handles and knobs
[BLL-OA-TRANS-3047-(6196.3)] 04 p0533 N84-13502
A guide for effluent radiological measurements at DOE installations
[DE83-016639] 04 p0538 N84-13542
Deregulating the airlines: An economic analysis
[PB83-250019] 04 p0617 N84-14070
Aircraft operations from airfields with special unconventional characteristics 06 p0776 N84-15085
Implementing new technology in the land mobile radio services
[PB84-101591] 08 p1148 N84-17472
Suggested state regulations for control fo radiation. Volume 2: Nonionizing radiation, lasers
[PB84-109669] 08 p1165 N84-17587
Transport infrastructure: Is planning still achievable — airport planning 10 p1424 N84-19310
The technical, economic and institutional feasibility of customer premises Earth stations for INTELSAT service
[PB84-128404] 10 p1484 N84-19703
Zoning for wind machines: A guide for Minnesota communities
[PB84-129568] 10 p1531 N84-20027
Security, a set of rules or an approach — cryptography
[NLR-MP-82047-U] 10 p1593 N84-20442
Study of noise-certification standards for aircraft engines. Volume 3: Selection and evaluation of engine-noise-certification concept
[AD-A137805] 11 p1614 N84-20563
Small wind systems field evaluation. Volume 2: Institutional issues
[DE84-006913] 12 p1844 N84-22024
Needed help for the Federal Acquisition Regulation Council
[AD-P002769] 13 p2053 N84-23316
Nailing down the liability issue once and for all
[AD-P002777] 13 p2054 N84-23324
The listing and approval procedure for materials and processes
[ESA-PSS-01-716-ISSUE-1] 16 p2500 N84-26046
Survey of environmental regulations applying to geothermal exploration, development and use
[PB84-173665] 16 p2519 N84-26174
Relevant and irrelevant legal structures: Distinguishing private sector from DOD contracting
[AD-P003241] 18 p2903 N84-28408
Safety study: Airport certification and operations
[PB84-917002] 19 p2960 N84-28761
Noise reduction techniques: Criteria and validation 19 p3096 N84-29664
Wetlands: Their use and regulation
[PB84-175918] 20 p3239 N84-30561
Land Remote-Sensing Commercialization Act of 1984
[H-REPT-98-647] 20 p3318 N84-31063
National Airspace Review: Implementation plan
[AD-A145379] 21 p3327 N84-31107
Legislation needed to clarify future of consumer protection and federal preemption after the Civil Aeronautics Board sunsets
[PB84-210103] 22 p3533 N84-32371
Evaluation and control of laser hazards 22 p3632 N84-33018
Master list and index to NASA directives
[NASA-TM-87362] 23 p3834 N84-34321

REGULATORS
NT AUTOMATIC FREQUENCY CONTROL
NT CURRENT REGULATORS
NT FLOW REGULATORS
NT FREQUENCY CONTROL
NT FUEL FLOW REGULATORS
NT PRESSURE REGULATORS
NT SPEED REGULATORS
NT THERMOSTATS
NT VOLTAGE REGULATORS
AESOP: An interactive computer program for the design of linear quadratic regulators and Kalman filters
[NASA-TP-2221] 07 p1057 N84-16843
Nonlinear systems approach to control system design 11 p1618 N84-20585
Use of microprocessor techniques in frequency measuring organs 17 p2638 N84-26876
FET switching regulator
[AD-D011146] 23 p3735 N84-33665

REHEATING
U HEATING

REIGNITION
U IGNITION

REINFORCED MATERIALS
U COMPOSITE MATERIALS

REINFORCED PLASTICS
NT GLASS FIBER REINFORCED PLASTICS
Non-destructive testing of non-metallic materials using microwaves
[DRIC-T-6974] 03 p0385 N84-12508
Determination of characteristic values for fiber reinforced materials — structural mechanics 10 p1452 N84-19481
Britain's ICI develops new easy-to-shape composites 14 p2118 N84-23695
Composites for increased wear resistance: Current achievements and future prospects 14 p2154 N84-23904
New material, process spins off from Volvo LCP 2000 program 17 p2640 N84-26891

REINFORCED PLATES
Analysis of symmetric reinforcement of quasi-isotropic graphite-epoxy plates with a circular cutout under uniaxial tensile loading
[AD-A139998] 15 p2285 N84-24715

REINFORCED SHELLS
Nonlinear geometric, material and time dependent analysis of reinforced concrete shells with edge beams
[PB84-104454] 08 p1173 N84-17639
Stress intensity factors in a reinforced thick-walled cylinder
[NASA-CR-172307] 11 p1668 N84-20679
Stressed and strained state of cylindrical shells reinforced with hoops 17 p2651 N84-26952

REINFORCEMENT (PSYCHOLOGY)
Positive and negative reinforcement effects on behavior in a three-person microsociety
[NASA-CR-173164] 09 p1363 N84-18902
The effects of task variability, sensory reinforcement, and monetary reinforcement on performance, satisfaction, and intrinsic motivation 17 p2769 N84-27584

REINFORCEMENT (STRUCTURES)
Bond characteristics of epoxy coated reinforced bars
[PB83-205518] 01 p0058 N84-10379
Interface bonding of shotcrete reinforced brick masonry assemblages, volume 1
[PB83-223206] 01 p0058 N84-10382
Interface bonding of shotcrete reinforced brick masonry assemblages. Volume 2: Appendices
[PB83-223214] 01 p0059 N84-10383
Study on small scale model tests for reinforced concrete structures- small scale model tests by using 3mm diameter deformed re-bars
[PB83-224832] 01 p0059 N84-10390
Detection of cracks on highway pavements
[PB83-238204] 04 p0516 N84-13389
A three-dimensional photoelastic investigation of stresses and cracks formed in concrete around deformed reinforcing bars 06 p0862 N84-15621
Transducer for measuring the internal forces in the columns of a frame-wall reinforced concrete structure
[PB84-119494] 09 p1319 N84-18617
Evaluation of NASA structural analysis (NASTRAN) to predict the dynamic response of reinforced concrete
[AD-A137244] 10 p1517 N84-19929
Condition evaluation of Supersonic Naval Ordnance Research Track (SNORT)
[AD-A140036] 15 p2265 N84-24599
Corrosion control for reinforced concrete
[AD-A139974] 15 p2317 N84-24909
Heat: Initiated furan resin for rapid runway repair
[AD-A140902] 17 p2611 N84-26713
Tensile crack exposure tests. Statistical analysis of the long-term durability of series B beams
[AD-A141955] 20 p3201 N84-30335
Effects of bond deterioration on hysteretic behavior of reinforced concrete joints
[PB84-192020] 20 p3203 N84-30343
Local bond stress-slip relationships of deformed bars under generalized excitations: Experimental results and analytical model
[PB84-192848] 20 p3204 N84-30355

REINFORCEMENT RINGS
Plastic rotating bands, obturators and sabots — obturators and sabots
[FOA-C-20534-D2] 19 p2996 N84-28985

REINFORCING FIBERS
NT BORON FIBERS
NT CARBON FIBERS
Fluoroether modified epoxy composites
[NASA-CASE-ARC-11418-1] 02 p0187 N84-11213
Production and characterization of beta-silicon carbide and alpha-silicon nitride whiskers for ceramic matrix composites
[LA-9650-MS] 06 p0797 N84-15197
A simple approach to determination of stiffness characteristics of unidirectional composites
[NASA-TM-77066] 07 p0967 N84-16263
The strength and behavior of steel fiber-reinforced concrete under combined tension-compression loading
[AD-A136124] 09 p1334 N84-18708

Composites for increased wear resistance: Current achievements and future prospects
14 p2154 N84-23904
Scale effect of fiber strength and properties of fiber-based unidirectional composites
23 p3706 N84-33496
Deformation of fiber-reinforced laminated composite near free surface 23 p3706 N84-33497
Evaluation of the effects of stress state and interfacial properties on the behavior of advanced metal matrix composites
[AD-A143911] 23 p3711 N84-33525
Planning of plates reinforced with equally stressed fibers of constant cross section 24 p3872 N84-34540

REINFORCING MATERIALS
Structural gradient in the silane coupling agent layers and its influence on the mechanical and physical properties of composites
[AD-A130664] 01 p0031 N84-10197
Analytical and experimental investigation of soil reinforcing
[AD-A134343] 07 p0985 N84-16383
Influence of constituent properties and geometric form on behavior of woven fabric reinforced composites
[NASA-CR-173326] 09 p1275 N84-18326
A principal rotor without joints and pillows, made of fiber materials, for dynamic systems of future helicopters
[MBB-UD-384-83-O] 16 p2562 N84-26440
Strength of bolted joints in laminated composites
[AD-A141826] 19 p2966 N84-28921
Scale effect of fiber strength and properties of fiber-based unidirectional composites
23 p3706 N84-33496
Composite materials with aluminum matrix reinforced with carbon fibers 24 p3872 N84-34537

REISSNER THEORY
Surface cracks in a plate of finite width under tension or bending
[NASA-CR-172309] 10 p1516 N84-19926

RELATIONSHIPS
An exploratory analysis of the relationship between media richness and managerial information processing
[AD-A143503] 22 p3674 N84-33293

RELATIVISTIC EFFECTS
Relativistic effects in the binding energies of few-body nuclei
[DE83-014711] 02 p0291 N84-11907
Implications of heavy-ion-induced satellite X-ray emission. Part 2: Production of K and L X-rays by 0.9 to 2.6 MeV/u Ar ions in thick targets of V, Cu, Nb, Ta, and Pt
[DE83-015681] 03 p0453 N84-12982
The 3-body forces, relativistic effects, isobars, and pions in nuclear systems
[DE84-000163] 04 p0597 N84-13938
Linear relativistic gyrokinetic equation in general magnetically confined plasmas
[DE84-000048] 04 p0610 N84-14027
Relativity and radars
[AD-A133791] 05 p0668 N84-14391
Future search for grand unified theory magnetic monopoles
[DE83-009451] 06 p0926 N84-16015
The physical nature of the continuum in active galaxies 08 p1243 N84-18128
The beam-density effect on energy loss of a relativistic charged particle beam
[AD-A139051] 13 p2041 N84-23241
Research in the area of laser modified atomic physics
[AD-A139387] 14 p2222 N84-24335
Approach to equilibrium of a relativistic gas
17 p2669 N84-27018
Relativistic particle dynamics: Lagrangian proof of the no-interaction theorem
[DE84-009147] 19 p3102 N84-29707
Relativistic electromagnetic instabilities near electron cyclotron frequency and harmonics
[DE84-009672] 19 p3107 N84-29745
New approach to polarized proton scattering based on Dirac dynamics
[DE84-006018] 20 p3296 N84-30926
The influence of the relativistic character of the electron HF motion on the non-linear wave dynamics in plasmas
[IPPJ-676] 20 p3301 N84-30964
Electromagnetic dissociation of radioactive heavy-ion beams
[DE84-012266] 21 p3495 N84-32146
Linear polarization and total flux density of silicon monoxide masers and active extragalactic objects at millimeter wavelengths 21 p3522 N84-32314

RELATIVISTIC ELECTRON BEAMS
High space harmonic perturbations in traveling wave tubes
[AD-A130204] 01 p0070 N84-10458
Dynasty 2: A nonlinear implicit code for relativistic electron beam tracking studies
[AD-A131592] 03 p0432 N84-12829
Theoretical studies of fusion physics. Volume 1: Summary
[DE83-010378] 03 p0445 N84-12924
Theoretical studies of fusion physics. Volume 2: Appendices
[DE83-010371] 03 p0445 N84-12925
Thomson-scattering measurements of electron temperature and density in a plasma channel created by a relativistic electron beam
[DE84-000356] 04 p0597 N84-13940
Simulation studies on a novel betatron injection scheme
[DE84-001337] 04 p0598 N84-13948
Tomographic technique in relativistic electron beam experiments
[DE84-000357] 04 p0598 N84-13949
Motion of ionized electrons under the intense electromagnetic field of the beam
[DE84-001396] 04 p0599 N84-13955
Relativistic-beam pickup test facility
[DE83-017929] 04 p0600 N84-13962
Grad-B drift transport of high current electron beams
[DE84-000115] 04 p0602 N84-13977
Simulations of the effects of mobile ions on the relativistic beam-plasma instability for intense beams
[DE84-000369] 04 p0607 N84-14003
High power, very broadband microwave radiation from the interaction of a relativistic electron beam with plasmas in the low magnetic field regime, with application to the type 3 solar burst phenomenon
05 p0665 N84-14371
Filamentation instability associated with a relativistic beam and a finite-temperature, collisional plasma
[DE84-002303] 05 p0750 N84-14928
Beam propagation experimental study
[AD-A133310] 06 p0915 N84-15946
Finite geometry effects on the stability of a charged beam propagating through a relativistic annular electron beam
[AD-A133338] 06 p0915 N84-15948
Wave-particle interactions on relativistic electron beams
[AD-A134270] 07 p1009 N84-16545
Radially resolved simulation of a high-gain free electron laser amplifier
[DE84-003751] 08 p1165 N84-17585
Beam front accelerators
[DE84-003709] 08 p1229 N84-18032
Theoretical studies on free electron lasers
[AD-A136333] 09 p1321 N84-18627
New high power coherent radiation sources
[AD-A137317] 10 p1479 N84-19662
Nonlinear dynamic polarization force on a relativistic test particle in a nonequilibrium beam-plasma system
[AD-A136768] 10 p1577 N84-20331
Microwave emission from relativistic electron beams
[AD-A137752] 11 p1730 N84-21285
On the convective properties of the resistive hose instability in an intense relativistic electron beam
[AD-A137527] 12 p1902 N84-22386
Physics of high temperature, dense plasmas
[AD-A138872] 13 p2044 N84-23268
Numerical and analytical studies of beam channel tracking
[AD-A139148] 14 p2222 N84-24332
An X-ray survey of variable radio bright quasars
[NASA-TM-86094] 14 p2250 N84-24512
Spectral power density extrema for microwave emission from a relativistic reflex triode
[AD-A139771] 15 p2329 N84-24984
REB (Relativistic Electron Beam)/channel tracking experiments in low pressure ammonia
[AD-A140209] 16 p2555 N84-26394
Thomson backscattering from an intense relativistic electron beam as a diagnostic for a free electron laser
[AD-A143027] 21 p3409 N84-31623
Electromagnetic effects in strong field of single crystals 21 p3485 N84-32084
Production of dense plasma column in strong magnetic fields and its diagnosis by laser methods
21 p3488 N84-32104
Autogenerator of beams of charged particles
[DE84-014242] 22 p3654 N84-33163
Experimental investigation of certain beam transport issues in a pulsed transmission line linear accelerator
[DE84-011191] 22 p3654 N84-33164
Plasma dynamics 22 p3663 N84-33354
Investigation of ion beam production and acceleration using linear electron beams and a pulse powered plasma focus
[AD-A144525] 24 p3962 N84-35088

RELATIVISTIC PARTICLES
NT RELATIVISTIC ELECTRON BEAMS
Ultra-relativistic heavy ions and cosmic rays
[DE83-015881] 03 p0476 N84-13134
Low-inductance, dual-feed diode development
[DE84-000117] 04 p0527 N84-13485
Filamentation instability of ion acoustic waves driven by a scattered relativistic beam
[DE84-001323] 04 p0599 N84-13956
Long range coherence in free electron lasers
[NASA-CR-173678] 18 p2845 N84-28066
Baryon distribution in relativistic heavy-ion collisions
[DE84-008509] 18 p2930 N84-28581
Relativistic vector sub p x vector sub b acceleration of charged particles by an obliquely propagating electrostatic wave
[IPPJ-680] 21 p3500 N84-32183
Large amplitude MHD waves upstream of the Jovian bow shock: Reinterpretation
[NASA-TM-86131] 21 p3525 N84-32333

RELATIVISTIC PLASMAS
Propagation and absorption of electromagnetic waves in fully relativistic plasmas
[DE83-017246] 03 p0450 N84-12959
Energetic plasma-beam propagation in weak and strong magnetic fields
[DE84-001362] 04 p0607 N84-14005
Nonlinear dynamic polarization force on a relativistic test particle in a nonequilibrium beam-plasma system
[AD-A136768] 10 p1577 N84-20331
The total field in collective bremsstrahlung in a nonequilibrium relativistic beam-plasma system
[AD-A136595] 10 p1585 N84-20391
Pair production rates in mildly relativistic, magnetized plasmas
[NASA-TM-86103] 15 p2405 N84-25434
On the form of the collective bremsstrahlung recoil force in a nonequilibrium relativistic beam-plasma system
[AD-A139695] 15 p2410 N84-25487
Emission model of gamma-ray bursts
[NASA-CR-173629] 17 p2781 N84-27656
The influence of the relativistic character of the electron HF motion on the non-linear wave dynamics in plasmas
[IPPJ-676] 20 p3301 N84-30964
Lyapunov stability conditions for a relativistic multifluid plasma
[DE84-010004] 20 p3303 N84-30973
Microstability theory for distributions separable in energy and pitch angle
[DE84-009883] 20 p3305 N84-30991
Non-geometrical optics investigation of mode conversion in weakly relativistic inhomogeneous plasmas
[DE84-012396] 20 p3306 N84-31002
Photon-photon absorption and the uniqueness of the spectra of active galactic nuclei
[NASA-TM-86117] 21 p3526 N84-32338
Propagation and absorption of electromagnetic waves in fully relativistic plasmas
[DE84-013627] 22 p3660 N84-33204
Physics of nonmagnetic relativistic thermal plasmas
[NASA-TM-86154] 24 p3965 N84-35107

RELATIVISTIC THEORY
Spinorial relativistic rotator: The transformation from quasi-Newtonian to Minokowski coordinates
[DE84-009091] 20 p3282 N84-30839
The basic concept of particle rest mass in a quantized relativistic universe
[ESA-STM-233] 23 p3832 N84-34306

RELATIVITY
Energy conserving nonrelativistic guiding center mechanics and the Galilean principle of relativity
[IPP-6/219] 02 p0286 N84-11878
Particle theory, cosmology and relativity
[DE84-003990] 11 p1760 N84-21489
Activities report of the Institute of Astronomy
13 p2071 N84-23422
Proceedings of a workshop: Multidisciplinary Use of the Very Long Baseline Array
[NASA-CR-173541] 15 p2338 N84-25034

RELAXATION (MECHANICS)
NT SPIN-LATTICE RELAXATION
NT STRESS RELAXATION
Kinetics of structural relaxation in metallic glasses
[DE83-015924] 02 p0201 N84-11309
Relaxation in spin glasses: Similarities and differences from ordinary glasses
[DE84-001719] 04 p0508 N84-13330
Constitutive equations for the creep behavior of nickel-base alloys for High Temperature Reactor (HTR) components in the temperature range 1023-1273 K
[JUEL-1843] 05 p0657 N84-14318
Subpicosecond-relaxation studies using tunable-laser-induced-grating techniques
06 p0848 N84-15531
Martensitic transformations, relaxation and acoustic-emission properties of some alloys of the Fe-Ni-Mn system
[BLL-M-35434-(5828.4)] 09 p1281 N84-18363

Load relaxation testing at medium strain rates
[DE84-004877] 10 p1461 N84-19544
TICA (Torsion Impregnated Cloth Analysis) study of high-temperature thermoplastics
[AD-A137048] 10 p1468 N84-19586
Structural unit/grain boundary dislocation model for grain boundary structure
[DE84-003167] 10 p1589 N84-20416
Effect of electron irradiation on relaxation of tension in aluminum and aluminum alloys
12 p1784 N84-21639
Impedance relaxation spectrum analysis of oxidized silver electrodes
[AD-A136380] 12 p1793 N84-21693
Analysis of anelastic relaxations controlled by a spectrum of relaxation times
[DE84-006014] 12 p1915 N84-22479
Dynamical relaxation in stellar systems
13 p2072 N84-23426
Critical quantum fluctuations in optical bistability
14 p2232 N84-24391
Transport, stability and relaxation of a Spheromak
[DE84-007265] 15 p2412 N84-25479
The effects of moisture on fracture toughness and thermal relaxation of stretched acrylic plastics
[AD-P003197] 17 p2591 N84-26610
Persistent relaxation of excess charge carriers in epitaxial pure n-GaAs 18 p2824 N84-27931
Freejets of rotationally relaxing diatomic gases
20 p3169 N84-30119
An entropy maximum principle and relaxation phenomena
[AD-A143531] 22 p3668 N84-33250
Generation of reactive stresses in TiNi alloy
24 p3675 N84-34556

RELAXATION METHOD (MATHEMATICS)

Structure and vibrational spectra of a model of a-SiH with periodic boundary conditions
[DE83-015245] 03 p0367 N84-12390
Disjunctive programming and a hierarchy of relaxations for discrete optimization problems
[AD-A132004] 03 p0425 N84-12784
A local-relaxation method for solving convection-diffusion equations
[NLR-MP-82030-U] 06 p0903 N84-15862
On M-functions and nonlinear relaxation methods
[MC-NW-160/83] 07 p1066 N84-16922
A semi-direct procedure using a local relaxation factor and its application to an internal flow problem
[NASA-TM-83704] 16 p2486 N84-25946
Multigrid techniques: The 1984 guide with applications to fluid dynamics 16 p2491 N84-25981
Integrating multigrid relaxation into a robust fast-solver for transonic potential flows around lifting airfoils
[NLR-MP-83021-U] 17 p2601 N84-26573
Optimization of a numerical method to calculate elliptic flows
[DFVLR-FB-84-16] 20 p3187 N84-30252
A nonstationary relaxation technique for solving the equations of gas dynamics 23 p3746 N84-33746

RELAXATION OSCILLATORS

Active sounder experiments on GEOS and ISEE
05 p0635 N84-14177

RELAXATION TIME

On the detection of underwater bottom topography by imaging radars 17 p2718 N84-27301

RELAY SATELLITES

Satellite data relay and platform locating in oceanography. Report of the In Situ Ocean Science Working Group
[NASA-TM-85443] 12 p1860 N84-22116

RELEASING

Mechanical ice release processes. Part 1: Self-shedding from high-speed rotors
[AD-A135369] 09 p1256 N84-18196

RELIABILITY

NT AIRCRAFT RELIABILITY
NT CIRCUIT RELIABILITY
NT COMPONENT RELIABILITY
NT SPACECRAFT RELIABILITY
NT STRUCTURAL RELIABILITY

Asymptotic methods in reliability theory: A review
[AD-A130163] 01 p0092 N84-10600
Combined environment test of Sangamo Weston SABRE 12 airborne recorder
[AD-A131278] 02 p0223 N84-11483
A diagnosis scheme for sensors of a flight control system using analytic redundancy 03 p0316 N84-12067
Nondestructive evaluation publications, 1981
[PB83-239574] 03 p0386 N84-12517
Reliability and maintainability study of select solar-energy-system components in the National Solar Data Network
[DE83-011974] 03 p0404 N84-12647
Survey of flash X-ray techniques and applications
[DE83-017234] 03 p0442 N84-12904
A general framework for learning curve reliability growth models
[AD-A132277] 04 p0546 N84-13596
Representativeness of meteorological observations
[DE83-017699] 04 p0568 N84-13743
Decision making and information processing under various uncertainty conditions
[AD-A132051] 04 p0572 N84-13770
An assessment of selected Army technical manuals
[AD-A132680] 05 p0654 N84-14302
AFCRL (Air Force Cambridge Research Laboratories) acoustic wind sensor system
[AD-A133739] 05 p0708 N84-14641
Design, development and flight test of a demonstration advanced avionics system 06 p0773 N84-15067
Research in some applied, and the modelling aspects of, reliability theory
[AD-A133424] 06 p0855 N84-15567
Free-piston Stirling engine experimental program: Part 1. Baseline test summary
[DE84-003659] 07 p1012 N84-16567
An approximation formula for a class of Markov reliability models
[NASA-CR-172290] 07 p1068 N84-16935
Reliability and maintainability data acquisition in equipment development tests
[DE84-002994] 07 p1084 N84-17051
Aircrew training devices: Utility and utilization of advanced instructional features. Phase I: Tactical Air Command
[AD-A135052] 08 p1106 N84-17190
Measuring quality achievements
08 p1168 N84-17605
A reliability and failure mode analysis of celestial training device microcomputers employed by SAC and MAC
[AD-A135003] 08 p1209 N84-17885
Abstract automath
[MATH-CENTRE-TRACTS-160]
08 p1217 N84-17938
Research in VLSI (Very Large Scale Integration) systems
[AD-A136413] 09 p1307 N84-18542
Effects of assuming independent component failure times, if they are actually dependent, in a series system
[AD-A136567] 09 p1327 N84-18667
Reliability modeling of critical electronic devices
[AD-A135705] 09 p1328 N84-18669
Design considerations of platens for vibration testing
[AD-A135815] 09 p1332 N84-18699
Program mutation: An approach to software testing
[AD-A135775] 09 p1368 N84-18933
Analysis of an error masking scheme for parallel computations
[AD-A136372] 09 p1374 N84-18971
Various aspects of network reliability
[AD-A136579] 09 p1384 N84-19038
IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study bibliography
[AD-A137327] 10 p1503 N84-19825
R and M (Reliability and Maintainability) parameter analysis document IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A137328] 10 p1503 N84-19826
Artificial intelligence applications to maintenance technology working group report IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A137329] 10 p1503 N84-19827
Cabling and connectors technology working group report IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A137330] 10 p1504 N84-19828
Directed energy technology working group report IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A137332] 10 p1504 N84-19830
Fiber optics technology working group report IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study. Part 1: Executive summary
[AD-A137333] 10 p1504 N84-19831
Operational software technology working group report IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A137335] 10 p1504 N84-19832
Electronic packaging and interconnect technology working group report IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A137336] 10 p1504 N84-19833
Mechanical systems conditioning monitoring technology working group report IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability Maintainability) study
[AD-A137524] 10 p1504 N84-19834
Power supply technology working group report IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A137525] 10 p1504 N84-19835
Testing technology working group report IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A137526] 10 p1504 N84-19836
VHSIC technology working group report (IDA/OSD R&M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A137720] 11 p1646 N84-20766
CAD/CAM technology working group report IDA/OSD R/M (Institute for Defense Analyses/Office of the Secretary of Defense Research and Maintainability) study
[AD-A137761] 11 p1666 N84-20867
Fabrication and evaluation of a high density multi fiber plastic connector 11 p1720 N84-21223
Vertical gyro with erection system and indication mechanism
[BMFT-FB-W-83-034] 12 p1819 N84-21858
On the genesis of reliability models
[ARL-STRUC-REPT-393] 12 p1824 N84-21869
Reliability analysis of multi-components systems
[AD-A138013] 12 p1824 N84-21890
Design optimization studies for nonimaging concentrating solar collector tubes
[DE84-001368] 12 p1843 N84-22017
Performance monitoring of active solar energy systems
[DE84-000027] 12 p1844 N84-22022
Current research in the Software Engineering Laboratory (SEL) 13 p2026 N84-23138
Empirical analysis of a token ring network
[AD-A138905] 13 p2030 N84-23164
Assessment of the NASA Flight Assurance Review Program
[NASA-CR-173418] 13 p2066 N84-23401
Small wind systems (field evaluation). Volume 4: Small wind system performance data
[DE84-006920] 14 p2173 N84-24014
Image dissector tube star trackers performance: Advantages and drawbacks as compared to those of charge transfer device star trackers
15 p2266 N84-24606
Field demonstration of three-phase wanlass motors
[AD-A140085] 15 p2330 N84-24989
Application of multifunction strapdown inertial system
16 p2447 N84-25688
Reliability and discernability of extended Gauss-Markov models 16 p2505 N84-26076
Data and results of a laboratory investigation of microprocessor upset caused by simulated lightning-induced analog transients
[NASA-TM-85821] 17 p2733 N84-27376
Comparison of some software reliability models for simulated and real failure data
[NLR-MP-83032-U] 17 p2754 N84-27481
Integrated Application of Active Controls (IAAC) technology to an advanced subsonic transport project: Final ACT configuration evaluation
[NASA-CR-3519] 18 p2792 N84-27723
Inspection of products for reliability indicators
18 p2824 N84-27926
Simplified thermal transient test for electro explosive devices
[AD-A132970] 18 p2844 N84-28060
Strict redundancy schemes for non-sequential detector reliability. Part 1: Analysis
[AD-A141875] 19 p3006 N84-29055
AN/APN-128 Lightweight Doppler Navigation System (LDNS) case study report (IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A142072] 20 p3127 N84-29860
F-15 AN/APG-63 radar case study report IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A142071] 20 p3129 N84-29873
F-16 APG-66 fire control radar case study report IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A142075] 20 p3129 N84-29874
A study of methods for alleviation of flow decay risk to the Galileo spacecraft 20 p3137 N84-29919

Purification of nitrogen tetroxide for long-term reliability
20 p3137 N84-29920
Flaw detection reliability criteria. Volume 1: Methods and results
[AD-A142001] 20 p3199 N84-30320
R and M (Reliability and Maintainability) program review elements document (IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A142073] 20 p3199 N84-30322
Improving system affordability
[AD-A142387] 20 p3318 N84-31062
T700 engine case study report. IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A143104] 21 p3343 N84-31211
Wind energy systems for electric utilities: A synthesis of value studies
[DE84-004520] 21 p3435 N84-31796
The implementation and use of Ada on distributed systems with high reliability requirements
[NASA-CR-173841] 21 p3463 N84-31954
The Electric Vehicle Project
[DE84-011788] 21 p3522 N84-32309
Processing science to increase the reliability of ceramics
[AD-A143207] 22 p3559 N84-32539
Effect of processing conditions on the reliability of crosslinked polyethlene cable insulation
[DE84-014902] 22 p3560 N84-32546
An evaluation of two reliability and maintainability information systems
[AD-A143438] 22 p3674 N84-33290
Validation of a fault-tolerant clock synchronization system
[NASA-TP-2346] 23 p3816 N84-34198
Sequential decision models in reliability
[AD-A144181] 24 p3911 N84-34770
A combined Bayes-sampling theory method for monitoring a Bernoulli process
[AD-P003840] 24 p3938 N84-34928

RELIABILITY ANALYSIS
Improvement of reliability of welding by in-process sensing and control (development of smart welding machines for girth welding of pipes)
[DE83-017012] 01 p0091 N84-10595
Bulk availability
[AD-A129863] 01 p0129 N84-10845
Survey of error propagation in systems
[DE83-009817] 01 p0134 N84-10878
Polyurethane aircraft coatings for fuel savings
02 p0167 N84-11096
Reliability analysis of the gradual degradation of semiconductor devices
[AD-A131375] 02 p0213 N84-11395
Initial operation of the compressed air experiment at Pittsfield, Illinois
[DE83-016930] 03 p0404 N84-12643
A study of critical factors affecting the development of performance measures in evaluating bibliographic information retrieval systems 03 p0460 N84-13030
Reliability programs for nonelectronic designs, volume 2
[AD-A133625] 05 p0689 N84-14528
Reliability programs for nonelectronic designs, volume 1
[AD-A133624] 05 p0689 N84-14529
Requirements on reliability models, and their consequences 05 p0723 N84-14740
Convex-ordering among functions, with applications to reliability and mathematical statistics
[AD-A132796] 05 p0736 N84-14833
A survey of network reliability
[AD-A133545] 06 p0899 N84-15835
Statistical analysis of a debugging model
06 p0931 N84-16048
Multistate reliability
[AD-A134589] 07 p1013 N84-16572
Greater emphasis on testing needed to make computer software more reliable and less costly
[PB84-113513] 09 p1370 N84-18944
An approach to reliable parallel data processing
09 p1402 N84-19157
Reliability and maintainability assessment factors for reliable fault-tolerant systems 11 p1616 N84-20574
Redox behavior of high temperature electrodes
11 p1741 N84-21359
Integrity in database systems
11 p1747 N84-21400
Upper and lower bounds for semi-Markov reliability models of reconfigurable systems
[NASA-CR-172340] 12 p1897 N84-22353
An assessment of the reliability of edge connectors — circuit boards
[ERA-82-22] 13 p1985 N84-22888
SIRE: An integrated reliability and cost model for the aerospace industry --- System Integrated Reliability Evaluator (SIRE)
[PNR-90192] 13 p1999 N84-22972
Structural coverage of functional testing
13 p2027 N84-23141
An evaluation of permanent solder masks for high reliability applications
[AD-A139234] 14 p2134 N84-23787
A guidebook for software reliability assessment
[AD-A139240] 14 p2205 N84-24233
Reliability-based design principle of composite materials with failure probability as a statistic
15 p2309 N84-24851
The importance of thermal-vacuum testing in achieving high reliability of spacecraft mechanisms
15 p2347 N84-25085
Antenna tracking mechanism for geostationary satellites 15 p2348 N84-25091
The measurement of acoustic emission parameters during hydraulic loading of the Novovorenezh AES reactor vessel VVER-1000
[DRIC-T-6998] 15 p2403 N84-25421
Integrated systems of manufacture (robotics) technology working group report (IDA/OSD Rand M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study)
[AD-A140304] 16 p2477 N84-25878
The crimping of high-reliability electrical connections
[ESA-PSS-01-726-ISSUE-1] 16 p2485 N84-25937
Reliability assurance of ESA spacecraft
[ESA-PSS-01-30-ISSUE-1] 16 p2500 N84-26038
NERF: A computer program for the numerical evaluation of reliability functions-reliability modeling, numerical methods and program documentation
[AR-00-984] 16 p2500 N84-26048
Bounds on network reliability
16 p2552 N84-26371
Allowance for geomagnetic field variations and tie-in of observations in highly precise aeromagnetic surveys
17 p2704 N84-27221
Designer, scientist on projected developments in aviation 18 p2784 N84-27669
Estimating reliability of an electrical insulating system
[DE84-010633] 18 p2834 N84-27993
CARE 3: Model overview and user's guide
[NASA-TM-85810] 18 p2920 N84-28514
Integrated Application of Active Controls (IAAC) technology to an advanced subsonic transport project: Current and advanced act control system definition study. Volume 2: Appendices
[NASA-CR-165631-VOL-2] 19 p2967 N84-28803
Software reliability: Additional investigations into modeling with replicated experiments
[NASA-CR-172378] 19 p3074 N84-29502
The semi-Markov unreliability range evaluator program
[NASA-TM-86261] 19 p3093 N84-29640
Field repair of AH-16 helicopter window cutting assemblies
[NASA-TM-85831] 20 p3128 N84-29864
Human reliability analysis using event trees
[S/T-REPT-VOL-1-NO-3] 20 p3265 N84-30718
Software quality assurance programs: Key elements of concern in selected commercial approaches
[DE84-009486] 20 p3274 N84-30785
Design philosophy for reliable systems, including control
[DE84-012681] 20 p3279 N84-30814
Reliability analysis of an ultra-reliable fault tolerant control system
[NASA-CR-166594] 21 p3345 N84-31219
Probability of undetected error after decoding for a concatenated coding scheme
[NASA-CR-173837] 21 p3470 N84-31992
A study of DSN traveling wave maser system reliability
22 p3575 N84-32640
A simulation process for determining reliability of cyclic random loaded structures
[AD-P003849] 24 p3939 N84-34936

RELIABILITY CONTROL
U QUALITY CONTROL
U RELIABILITY ENGINEERING

RELIABILITY ENGINEERING
A technical overview of the National Software Works
[AD-A132320] 04 p0580 N84-13827
Requirements on reliability models, and their consequences 05 p0723 N84-14740
Practical impact of an integrated workbench on the quality assurance of embedded software
05 p0723 N84-14741
Simulation requirements to support the development of a fault tolerant avionic system 06 p0774 N84-15072
Reliability growth programs of major weapon systems in the aeronautical systems division
[AD-A134380] 07 p1013 N84-16571
Management input in quality 08 p1168 N84-17602
Achievement of reliability by thermal vacuum testing of spacecraft mechanisms 09 p1296 N84-18472
Development and analysis of the Software Implemented Fault-Tolerance (SIFT) computer
[NASA-CR-172146] 09 p1371 N84-18963
Implementation of a reliability shorthand on the Apple 2(+) microcomputer
[AD-A136778] 10 p1557 N84-20203
Active reliability engineering, technical concept and program plan. A solid-state systems approach to increased reliability and availability in military systems
[AD-A137541] 11 p1666 N84-20866
Intercenter Problem Reporting and Corrective Action System (PRACAS) 11 p1748 N84-21408
Product assurance technology for procuring reliable, custom LSI/VLSI electronics
[NASA-CR-173405] 12 p1812 N84-21810
Software interoperability and reusability, volume 1
[AD-A136477] 12 p1883 N84-22276
Software interoperability and reusability. Volume 2: Guidebook for software quality measurement
[AD-A136476] 12 p1884 N84-22277
Cost effectiveness of reliability in the aerospace industry
[PNR-90187] 13 p1999 N84-22971
Engine product performance agreements and the future
[AD-P002821] 13 p2061 N84-23366
Reliability in space: Program manager and user awareness
[AD-P002148] 14 p2137 N84-23813
Accelerated testing
[DRIC-T-7073] 15 p2346 N84-25078
The importance of thermal-vacuum testing in achieving high reliability of spacecraft mechanisms
15 p2347 N84-25085
Multipath pyrotechnic relay: Conception with numerical simulations and experimental validation
[SNIAS-832-422-101] 16 p2474 N84-25855
Characteristic faults of input stabilizing and correcting equipment in television transmitting stations
17 p2632 N84-26837
Integrated Application of Active Controls (IAAC) technology to an advanced subsonic transport project: Current and advanced act control system definition study
[NASA-CR-3545] 18 p2796 N84-27744
Reliability growth testing effectiveness
[AD-A141232] 18 p2851 N84-28102
The nest generation in satellite flight control systems
19 p3119 N84-29822
A summary of fault tolerant computing research at Carnegie Mellon University
[AD-A142707] 20 p3273 N84-30777
Intelligent instruments for process measurement techniques (monitoring of sensors)
[BMFT-FB-T-84-078] 21 p3407 N84-31611
Fault tolerant software modules for SIFT
[NASA-CR-165874] 21 p3463 N84-31955
The Electric Vehicle Project
[DE84-011788] 21 p3522 N84-32309
Research pressure instrumentation for NASA Space Shuttle main engine
[NASA-CR-173932] 23 p3702 N84-33463
Problems presented to engine builders by the recycling of metallic materials — titanium and nickel alloys for aircraft engine parts 23 p3704 N84-33482
Phase sensitive guidance sensor for wire-following vehicles
[NASA-CASE-NPO-15341-1] 23 p3750 N84-33769

RELIC RADIATION
Search for the radiative decay of a cosmic relic particle with IUE 24 p3982 N84-35231

RELIEF MAPS
Fisheye objective in the close range photogrammetry: Theoretical and practical investigations
[SER-C-286] 16 p2505 N84-26060

RELIEVING
NT STRESS RELIEVING

RELUCTANCE
Prediction and analysis of variable reluctance stepmotor drive systems
[NLR-TR-81139-U] 20 p3182 N84-30218

RELUCTIVITY
U RELUCTANCE

REMAGNETIZATION
U MAGNETIZATION

REMANENCE
The magnetic petrology of the deep crust and the interpretation of regional magnetic anomalies
[NASA-CR-175407] 10 p1533 N84-20041

REMELTING
U MELTING

REMOTE CONSOLES

MIL-STD-1553B Marconi LSI chip set in a remote terminal application
[AD-P003538] 21 p3332 N84-31142

MIL-STD-1553 interface application notes
[AD-P003539] 21 p3332 N84-31143

Third generation MIL-STD-1553B LSI chip set
[AD-P003542] 21 p3333 N84-31146

Auxiliary programs for the Metal-Enclosed Microstrips Project
[INPE-3172-PRE/542] 21 p3465 N84-31964

Higher layer protocols for a workstation architecture
[DE84-013649] 22 p3641 N84-33087

REMOTE CONTROL

Remotely driven model control surfaces for efficient wind-tunnel operations 01 p0022 N84-10139

New control system for the SLAC accelerator klystrons for SLC
[DE83-012706] 01 p0073 N84-10480

Space Applications of Automation, Robotics and Machine Intelligence Systems (ARAMIS), phase 2. Volume 1: Telepresence technology base development
[NASA-CR-3734] 01 p0089 N84-10583

Space Applications of Automation, Robotics and Machine Intelligence Systems (ARAMIS), phase 2. Volume 2: Telepresence project applications
[NASA-CR-3735] 01 p0090 N84-10584

Using an X-ray-sensitive vidicon and remote-control stage mechanism to obtain critical radiographic alignment of small explosive devices
[DE83-012846] 03 p0358 N84-12326

IRIG standard for distributing interrange vector acquisition data
[AD-A133617] 06 p0793 N84-15170

Robot manipulator control
[AD-A129365] 06 p0893 N84-15800

The Stanford cart and the CMU Rover
[NASA-CR-174502] 06 p0893 N84-15803

Design of a remotely controlled hovercraft vehicle for spill reconnaissance
[PB84-124064] 08 p1105 N84-17187

Infrared devices for control applications
[BMFT-FB-T-83-247] 10 p1579 N84-20349

Evaluation of army remotely piloted vehicle mission payload operator performance in simulated artillery missions
[AD-A137602] 11 p1703 N84-21103

Computer communications with Mauna Loa Solar Observatory
[PB84-137256] 11 p1705 N84-21114

Human factors in remote control engineering development activities
[DE84-003201] 12 p1868 N84-22176

Advances in solid state switchgear technology for large space power systems
[NASA-TM-83652] 13 p1986 N84-22991

Observations of the Earth's magnetic field from the Space Station: Measurement at high and extremely low altitude using Space Station-controlled free-flyers
[NASA-TM-86119] 16 p2521 N84-26183

CURV 3: Characteristics and mission applications
[AD-A140225] 17 p2629 N84-26819

FOA-SUB underwater vehicle system: A brief description of the system and its state, Spring 1984
[FOA-C-20536-E1(E3)] 19 p3003 N84-29030

Advanced teleoperation in nuclear applications: Consolidated fuel reprocessing program
[DE84-011631] 20 p3197 N84-30303

Robotic deburring. Part 1: Preliminary observations
[DE84-010786] 20 p3197 N84-30305

Microprocessor enhanced real time manual control of an industrial robot
[DE84-011805] 21 p3413 N84-31645

Advanced remotely maintainable force-reflecting servomanipulator concept
[DE84-011634] 21 p3414 N84-31646

Basic research on intelligent robotic systems operating in hostile environments: New developments at ORNL
[DE84-011464] 21 p3414 N84-31647

Telemetry/Telecommand (TM/TC) processor study
[MATRA-144-TM-TC-03-002] 23 p3699 N84-33448

The TM/TC processor study report — telemetry/telecommand (TM/TC)
[BL-5577] 23 p3700 N84-33449

REMOTE HANDLING

Engineering hot-cell windows for radiation protection — for remote handling of radioactive materials
[DE83-014675] 03 p0356 N84-12319

Robot manipulator control
[AD-A129365] 06 p0893 N84-15800

Electromagnetic design of a remote manipulator arm for space applications 09 p1295 N84-18462

European technology requirements on space automation and teleoperation 09 p1297 N84-18477

Advancement of remote technology: Past perspectives and future plans
[DE84-008517] 18 p2849 N84-28092

Precision manipulator heating and cooling apparatus for use in UHV systems with sample transfer capability
[NASA-CASE-LAR-13040-1] 19 p3026 N84-29191

Advanced teleoperation in nuclear applications: Consolidated fuel reprocessing program
[DE84-011631] 20 p3197 N84-30303

Advancement of remote systems technology: Past perspectives and future plans
[DE84-011460] 20 p3198 N84-30309

Advanced remotely maintainable force-reflecting servomanipulator concept
[DE84-011634] 21 p3414 N84-31646

REMOTE MANIPULATOR SYSTEM

Space applications of Automation, Robotics And Machine Intelligence Systems (ARAMIS). Volume 3, phase 2: Executive summary
[NASA-CR-3736] 01 p0089 N84-10582

Space Applications of Automation, Robotics and Machine Intelligence Systems (ARAMIS), phase 2. Volume 1: Telepresence technology base development
[NASA-CR-3734] 01 p0089 N84-10583

Space Applications of Automation, Robotics and Machine Intelligence Systems (ARAMIS), phase 2. Volume 2: Telepresence project applications
[NASA-CR-3735] 01 p0090 N84-10584

Apparatus for adapting an end effector device remotely controlled manipulator arm
[NASA-CASE-MFS-25949-1] 02 p0229 N84-11501

Desktop computer graphics for RMS/payload handling flight design 12 p1871 N84-22196

Use of robots in Estonian auto, machine tool industries viewed 14 p2155 N84-23916

Conceptual design of a robotic loader system for remote missile launchers
[AD-A141270] 18 p2802 N84-27781

Space station needs, attributes and architectural options study. Volume 7-4B: Data book, architecture, technology and programmatics, part B
[NASA-CR-173685] 18 p2804 N84-27800

Conceptual design of a mobile remote manipulator system 19 p2982 N84-28894

System requirements and characteristics, book 3
[NAS 1.15:86652-BK-3] 23 p3698 N84-33440

REMOTE REGIONS

NT ANTARCTIC REGIONS

NT ARCTIC REGIONS

A study of antarctic remote site automatic weather station data (1980-81) from the ross ice shelf area
[AD-A143738] 23 p3802 N84-34105

REMOTE SENSING

A description of the NORDA satellite remote sensing hardware/software for prospective users
[AD-A130779] 01 p0067 N84-10438

Lateral variations in geologic structure and tectonic setting from remote sensing data
[AD-A130758] 01 p0105 N84-10683

Evaluation of some remote sensing techniques for oil and crop management 02 p0234 N84-11538

Comparison of SCC magnitudes at MAGSAT altitudes (325-550 km) and at ground locations
[INPE-2890-PRE/409] 02 p0239 N84-11564

Maps of favorable areas for tuna fishing in the southwestern Atlantic prepared from satellite data
[INPE-2891-PRE/410] 02 p0239 N84-11565

Estimating temperature and moisture regimes in forest and rangeland soils using thermal remote sensing
[PB83-237453] 02 p0241 N84-11577

On surface circulation of the eastern north Pacific 02 p0257 N84-11682

Earth Resources Laboratory research and technology
[E84-10033] 03 p0395 N84-12576

An operational remote sensing methodology for the detection, inventory and environmental monitoring of waste disposal sites 03 p0398 N84-12601

Passive radiometry and other remote sensing data interpretation for oil slick thickness assessment, in an experimental case 03 p0399 N84-12609

Observation of the Earth in the middle infrared
[ESA-TT-790] 03 p0402 N84-12629

Real-time processing system for the NRL (Naval Research Laboratory) remote sensing experiment: Phelps Bank, July 1982
[AD-A132151] 04 p0553 N84-13645

Rain estimation from satellites: An examination of the Griffith-Woodley technique
[NASA-TM-84969] 04 p0566 N84-13735

Instrumentation for remote sensing over fiber optics
[DE84-001788] 04 p0605 N84-13991

A comprehensive description of the mission sensor microwave imager (SSM/I) environmental parameter extraction algorithm
[AD-A134052] 05 p0759 N84-14976

Landsat 4 TM-data: Examples of resolution capacity
[FOA-C-30329-E1] 06 p0867 N84-15644

Propagation Factors Affecting Remote Sensing by Radio Waves
[AGARD-CP-345] 06 p0867 N84-15646

The European Space Agency's Earth observation satellite programmes 06 p0867 N84-15647

Remote sensing with spaceborne synthetic aperture imaging radars: A review 06 p0867 N84-15648

Radar and infrared remote sensing of terrain, water resources, arctic sea ice, and agriculture 06 p0868 N84-15651

A review of propagation and scattering factors in remote-sensing and ship-tracking by HF radar 06 p0868 N84-15655

Lidar remote sensing of internal waves and optical properties 06 p0871 N84-15670

Passive remote sensing of ocean optical propagation parameters 06 p0872 N84-15673

Remote sensing of atmospheric pressure and sea state from satellites using short-pulse multicolor laser altimeters 06 p0872 N84-15674

Spaceborne Imaging Radar Symposium
[NASA-CR-173186] 07 p0987 N84-16390

Spaceborne SAR and sea ice 07 p0990 N84-16412

European Space Agency, ERS-1 program 07 p0990 N84-16419

Further development of magnetotelluric methods for the exploration of the pre-Zechstein by improvement of the data processing codes, data acquisition and interpretation techniques
[BMFT-FB-T-83-190] 07 p1023 N84-16638

Technology needs of advanced Earth observation spacecraft
[NASA-CR-3698] 08 p1114 N84-17248

Multifrequency synthetic aperture radar antenna comparison study — for remote sensing
[NASA-CR-171736] 08 p1143 N84-17434

Remote sensing: New satellite systems and potential applications — conferences
[ESA-SP-205] 08 p1174 N84-17650

Current trends and research challenges in land remote sensing 08 p1174 N84-17651

Typical SPOT data and products: Potential applications 08 p1175 N84-17653

Remote sensing experiments on Spacelab and STS 08 p1175 N84-17655

Typical remote sensing data products 08 p1175 N84-17656

Requirements for spaceborne remote sensing in geology 08 p1175 N84-17657

APPS-4 (Analytical Photogrammetric Processing System-4) remote sensing applications guide
[AD-A134977] 08 p1176 N84-17676

Estimation of small area populatons using remote sensing and other approaches
[DE84-003404] 08 p1178 N84-17678

Report from the URSI Commission F Symposium on Wave Propagation and Remote Sensing
[FOA-C-30340-E2] 08 p1179 N84-17682

Satellite measurements of atmospheric aerosols
[AD-A135241] 08 p1190 N84-17757

NOAA (National Oceanic and Atmospheric Administration) satellite programs briefing
[PB84-108349] 08 p1193 N84-17781

Pattern recognition and image processing review
[AD-B084815] 08 p1211 N84-17897

The ISPM unified radio and plasma wave experiment 09 p1262 N84-18237

USSR report: Space
[JPRS-USP-84-001] 09 p1263 N84-18247

Nelepo describes Intercosmos-Black Sea experiment 09 p1265 N84-18257

Cosmos-1500 SLR used for Arctic ice reconnaissance 09 p1265 N84-18258

Earth Resources: A continuing bibliography with indexes, issue 40
[NASA-SP-7041(40)] 09 p1336 N84-18723

Data documentation for the bare soil experiment at the University of Arkansas, June - August 1980
[NASA-CR-173325] 09 p1336 N84-18725

Inversion algorithms for the microwave remote sensing of soil moisture. Experiments with swept frequency microwaves
[NASA-CR-173323] 09 p1336 N84-18726

Simulation of Thematic Mapper data for remote bathymetry
[AD-A136377] 09 p1337 N84-18728

On the dielectric properties of dry snow in the 800 MHz to 13 GHz range — remote sensing
[REPT-S-135] 09 p1337 N84-18733

Lunar exploration by polar orbiter
[NAL-TR-755] 09 p1416 N84-19265

Basic investigation on the feasibility of multispectral radiation information from microwave radiometry measurements for Earth-scientific objectives of remote sensing
[DFVLR-FB-83-27] 10 p1526 N84-20000
Microwave remote sensing experiment for first Spacelab mission
[BMFT-FB-W-83-022] 10 p1527 N84-20001
The use of remote sensing for soils investigations on BLM lands
[PB84-132075] 10 p1527 N84-20005
Swirls and plumes or application of statistical methods to satellite-derived sea surface temperatures
[AD-A135462] 10 p1528 N84-20010
Sampling problems of satellite measurements of radiation budget parameters 10 p1534 N84-20045
Angular corrections of satellite derived measurements of radiances 10 p1534 N84-20046
Error analysis of satellite derived radiation flux densities 10 p1534 N84-20047
Remote sensing training for Corps of Engineering personnel: The university training module concept
[NASA-CR-175204] 10 p1549 N84-20154
Research and technology, fiscal year 1983
[NASA-TM-85557] 10 p1592 N84-20434
Kinematic analysis of Hurricane Frederick (1979) using satellite, aircraft and Rawinsonde data
[NASA-CR-175430] 11 p1685 N84-20988
Development of a data management front-end for use with a LANDSAT-based information system
[NASA-CR-175151] 11 p1749 N84-21418
Techniques and instruments for cosmonaut remote sensing 12 p1775 N84-21575
An evaluation of thematic mapper simulator data for the geobotanical discrimination of rock types in Southwest Oregon
[NASA-CR-166569] 12 p1828 N84-21915
Fundamental remote sensing science research program. Part 1: Scene radiation and atmospheric effects characterization project
[NASA-TM-86078] 12 p1830 N84-21929
NASA fundamental remote sensing science research program 12 p1830 N84-21930
Remote sensing of Earth terrain 12 p1831 N84-21938
Discrete random media techniques for microwave modeling of vegetated terrain 12 p1832 N84-21939
Atmospheric effects on remote sensing of the Earth's surface 12 p1832 N84-21943
Characterization of surface reflectance variation effects on remote sensing 12 p1832 N84-21944
Multidimensional modeling of atmospheric effects and surface heterogeneities on remote sensing 12 p1833 N84-21945
Bidirectional spectral reflectance of Earth resources: Influence of scene complexity and atmospheric effects on remote sensing 12 p1833 N84-21946
Remote sensing of Earth terrain 12 p1834 N84-21951
Discrete random media techniques for microwave modeling of vegetated terrain 12 p1834 N84-21952
Measuring and modeling of the dielectric properties and attenuation of vegetation 12 p1834 N84-21953
Satellite-Derived Sea Surface Temperature: Workshop 1
[NASA-CR-173450] 12 p1834 N84-21955
Satellite-derived sea surface temperature: Introduction 12 p1834 N84-21956
Evaporation from a bare soil evaluated from a soil water transfer model using remotely sensed surface soil moisture data
[CRPE-NT-125] 13 p2006 N84-23016
Topex: Observing the oceans from Space
[NASA-CR-173490] 13 p2018 N84-23085
Characterization of surficial geologic units on Venus from Pioneer Venus radar data: A progress report 13 p2076 N84-23454
Optimization of satellite orbital parameters for oceanic surveillance
[AD-P002158] 14 p2139 N84-23824
Coherent laser radar remote sensing
[AD-A139448] 14 p2151 N84-23885
A comparison of numerical results of Arctic Sea ice modeling with satellite images 14 p2165 N84-23969
Arctic Sea ice by passive microwave observations from the Nimbus-5 Satellite 14 p2166 N84-23970
State remote sensing (LANDSAT) programs catalog
[E84-10127] 14 p2168 N84-23985
Aerial photography for ecological site mapping 14 p2169 N84-23990
A constrained-clustering approach to the analysis of remote sensing data
[AD-A139124] 14 p2169 N84-23993
Orbital imagery: A cartographic solution
[INPE-2820-PRE/374] 15 p2357 N84-25143
Marginal ice zone experiment (1983). Part 1: Ice characterization measurements. Part 2. Helicopter-borne and ship-based radar backscatter measurement of sea ice in the marginal ice zone
[AD-A139894] 15 p2373 N84-25238
A computer program for mapping regions in a geographic data base with raster structure
[FOA-C-20529-D6] 15 p2390 N84-25340
Publications of the Jet Propulsion Laboratory 1982
[NASA-CR-173539] 15 p2417 N84-25510
Basic elements of laser radar
[INPE-3123-MD/025] 16 p2497 N84-26021
Earthnet: The story of images
[ESA-BR-18] 16 p2509 N84-26102
Digital processing of LANDSAT data for the preparation of a land use map of the rural district surrounding Tuebingen to a scale of 1:50000
[ESA-TT-816] 16 p2509 N84-26104
Integration of LANDSAT land cover data into the Saginaw River basin geographic information system for hydrologic modeling
[AD-A140185] 16 p2510 N84-26106
Effects of weathering and lichen cover on the middle infrared spectra of rocks
[AD-A140228] 16 p2510 N84-26111
Satellite observations of a monsoon depression
[NASA-CR-173590] 16 p2528 N84-26232
Maps of favorable areas for tuna fishing to the South and Southeast of Brazil prepared from SMS-2 satellite data
[INPE-3102-PRE/501] 16 p2532 N84-26256
Advanced laser stratospheric monitoring systems analyses
[NASA-CR-172348] 16 p2552 N84-26373
Estimating spectral indices from transforms of discrete representations of density functions
[AD-A140164] 16 p2557 N84-26404
The Pilot Land Data System: Report of the Program Planning Workshops
[NASA-TM-86250] 16 p2586 N84-26468
Spaceborne sensors (1983-2000 AD): A forecast of technology
[NASA-TM-86083] 17 p2616 N84-26743
The time-spatial structure of microwave radio fields on line-of-sight overwater paths
[REPT-220] 17 p2651 N84-26955
The MST radar technique: Requirements for operational weather forecasting 17 p2682 N84-27077
Contextual classification of remotely sensed data 17 p2708 N84-27245
Development of Great Lakes algorithms for the Nimbus-G coastal zone color scanner
[NASA-CR-173511] 17 p2711 N84-27258
A report of Ceara Project activities
[INPE-2988-RPE/452] 17 p2711 N84-27260
Frontiers of Remote Sensing of the Oceans and Troposphere from Air and Space Platforms
[NASA-CP-2303] 17 p2711 N84-27262
Remote sensing for oceanography: Past, present, future 17 p2711 N84-27263
ESA activities in the use of microwaves for the remote sensing of the Earth 17 p2712 N84-27264
High resolution observations of low contrast phenomena from an Advanced Geosynchronous Platform (AGP) 17 p2712 N84-27266
Remote sensing of air-sea interactions 17 p2712 N84-27267
Scatterometer capabilities in remotely sensing geophysical parameters over the ocean: The status and the possibilities 17 p2712 N84-27268
Synthetic aperture radar images of ocean waves, theories of imaging physics and experimental tests 17 p2714 N84-27275
An improved dual-frequency technique for the remote sensing of ocean currents and wave spectra 17 p2714 N84-27281
A tentative unified sea model for scattering and emission 17 p2715 N84-27285
Applications of airborne remote sensing in atmospheric sciences research 17 p2715 N84-27286
Microwave remote sensing of ocean surface wind speed and rain rates over tropical storms 17 p2716 N84-27288
Recent advances in multispectral sensing of ocean surface temperature from space 17 p2717 N84-27297
Vector wind, horizontal divergence, wind stress and wind stress curl from SEASAT-SASS at one degree resolution 17 p2720 N84-27313
The impact of scatterometer wind data on global weather forecasting 17 p2720 N84-27314
First global analysis of SEASAT scatterometer winds and potential for meteorological research 17 p2720 N84-27315
The importance of altimeter and scatterometer data for ocean prediction 17 p2720 N84-27316
Sampling strategies and four-dimensional assimilation of altimetric data for ocean monitoring and prediction 17 p2721 N84-27317
The influence of actual and apparent geoid error on ocean analysis and prediction 17 p2721 N84-27318
Ionospheric observation activities report
[UIO-SR-84-01] 17 p2728 N84-27367
Applications of satellite observations to the radiation budget, fluxes and the general circulation
[PB83-256818] 17 p2735 N84-27383
Mariners Weather Log, Volume 28, Number 1, January-February-March 1984
[PB84-175710] 17 p2735 N84-27385
Infrared photothermal radiometry
[AD-A140562] 17 p2765 N84-27561
Aerosol backscatter lidar calibration and data interpretation
[NASA-CR-173738] 18 p2845 N84-28067
Research on land use cartography by remote sensing 18 p2867 N84-28201
Remote sensing of the Santonge littoral. Processing and interpretation of satellite images
[ISBN-2-85929-016-8] 18 p2867 N84-28202
Observing ocean-atmosphere exchanges with space-borne sensors, appendix C 18 p2884 N84-28296
Cloud recognition from bispectral histograms
[MITT-38] 18 p2891 N84-28352
Robotron image processing systems 18 p2919 N84-28509
Docking of 'Progress-19', mapping and survey work 19 p2971 N84-28831
Results from study of Earth resources from space 19 p2976 N84-28867
Organizing work with information flows in system for automated processing of data from remote sensing of the Earth for use in agriculture 19 p2977 N84-28873
Criteria for efficiency of experiments in remote sensing 19 p2978 N84-28876
Excess science accommodation capabilities and excess performance capabilities assessment for Mars Geoscience and Climatology Orbiter: Extended study
[NASA-CR-173765] 19 p2978 N84-28882
Lead salt diode lasers and development of tunable solid state lasers for remote sensing
[NASA-CR-173783] 19 p3029 N84-29207
Active and passive remote sensing of ice
[AD-A141473] 19 p3041 N84-29293
Overview of ultraviolet remote sensing of the ionosphere
[AD-A141533] 19 p3041 N84-29294
Proceedings of the Conference on Microwave Signatures in Remote Sensing
[FOA-C-30359-E1,E3] 19 p3042 N84-29305
Thematic Mapper sensor characteristics 20 p3206 N84-30365
Calibration of TM data from ground-based measurements 20 p3209 N84-30385
Scan-angle and detector effects in Thematic Mapper radiometry 20 p3209 N84-30386
Global hydrologic cycle 20 p3217 N84-30434
Global biogeochemistry: An overview 20 p3217 N84-30435
Biogeochemical considerations 20 p3217 N84-30436
Biological oceanography 20 p3217 N84-30437
Inland aquatic resources and biogeochemical cycles 20 p3217 N84-30438
Forest environments 20 p3218 N84-30439
Land biology 20 p3218 N84-30440
Tropospheric chemistry 20 p3218 N84-30441
Geology 20 p3218 N84-30442
Earth Observing System. Science and mission requirements, volume 1, part 1
[NASA-TM-86129-VOL-1-PT-1] 20 p3219 N84-30450
Earth Observing System, introduction 20 p3219 N84-30451
Observational requirements and measurement systems concepts 20 p3219 N84-30452
Implementation strategy 20 p3219 N84-30453
Earth Observing System, conclusions and recommendations 20 p3219 N84-30454
Geodyn systems development 20 p3221 N84-30467
Ocean circulation studies 20 p3222 N84-30469
Global mean sea surface based upon SEASAT altimeter data 20 p3222 N84-30470
SEASAT altimetry for surface height of inland seas 20 p3222 N84-30472
Accuracy of mapping the Earth's gravity field fine structure with a spaceborne gravity gradiometer mission 20 p3222 N84-30473

A directory of European, Middle Eastern, and North African coastal ground control points for mapping satellite images
[AD-A142019] 20 p3228 N84-30512
A description of the MIZEX 1984 remote sensing activities
[AD-A142296] 20 p3228 N84-30514
Remote sensing and the private sector: Issues for discussion
[PB84-160777] 20 p3229 N84-30520
Land Remote-Sensing Commercialization Act of 1984
[H-REPT-98-647] 20 p3918 N84-31063
Attitude determination using strapdown inertial sensors and adaptive estimation
[INPE-3160-PRE/545] 21 p3327 N84-31106
Space research in Pakistan: A relentless pursuit
21 p3346 N84-31227
Azerbaijan Institute develops subsatellite measurement systems 21 p3348 N84-31238
Practical applications of a space station
[NASA-CR-173672] 21 p3353 N84-31270
Earth resources, a continuing bibliography with indexes
[NASA-SP-7041(42)] 21 p3425 N84-31725
Discrimination of iron alteration minerals in remote sensing data 21 p3425 N84-31727
Activities of the Remote Sensing Information Sciences Research Group
[E84-10177] 21 p3427 N84-31739
Global resources information system
21 p3428 N84-31747
The potential of AI techniques for remote sensing
21 p3428 N84-31748
Fundamental remote science research program. Part 2: Status report of the mathematical pattern recognition and image analysis project
[NASA-TM-58260] 21 p3430 N84-31762
The use of infrared imagery in the study of fault zones
[INPE-3143-PRE/529] 21 p3443 N84-31845
Monitoring of long waves in the eastern Equatorial pacific 1981-1983 using satellite multi-channel sea surface temperature charts
[PB84-190487] 21 p3451 N84-31900
Development and characterization analysis of a radar polarimeter
[NASA-CR-175259] 22 p3598 N84-32785
Remote sensing for geobotanical prospecting
22 p3613 N84-32889
Pilot study and evaluation of a SMMR-derived sea ice data base
[NASA-CR-175255] 22 p3614 N84-32896
Determination of sea surface temperature with N-ROSS (Navy-Remote Ocean Sensing System)
[AD-A143563] 22 p3627 N84-32984
Electromagnetic wave theory and remote sensing
22 p3663 N84-33350
Quality measures for estimating the proportions of different classes within a single image resolution element (Pixel)
[INPE-2791-PRE/354] 23 p3763 N84-33852
Mapping project on land use changes in the carboniferous region of Santa Catarina
[NASA-CR-173946] 23 p3763 N84-33853
Irrigated lands: Monitoring by remote sensing
[NASA-CR-173945] 23 p3763 N84-33854
Forestry inventory based on multistage sampling with probability proportional to size
[INPE-2869-RPE/441] 23 p3763 N84-33855
A comparative study of different products of sensor systems applied in a lithologic-structural analysis of the Quadrilatero Ferrifero area, Minas Gerais
[INPE-3210-TDL/174] 23 p3764 N84-33856
International Geoscience and Remote Sensing Symposium (IGARSS) 84. Remote sensing: From Research Towards Operational Use, volume 1
[ESA-SP-215-VOL-1] 23 p3764 N84-33857
Retrieval for remote sensing image data base with multimedia user interface 23 p3766 N84-33870
Spectral characterization of biophysical characteristics in a boreal forest: Relationship between Thematic Mapper band reflectance and leaf area index for Aspen
23 p3766 N84-33875
Modeling the polarization dependence of the attenuation in vegetation canopies — microwave attenuation
23 p3767 N84-33876
The effect of row direction on the microwave emission from vegetation canopies 23 p3767 N84-33877
Parametric analysis of synthetic aperture radar data acquired over truck garden vegetation
23 p3767 N84-33878
Radar backscattering of forest stands
23 p3767 N84-33880
Use of multi-frequency, multi-polarization, multi-angle airborne radars for class discrimination in a southern temperature forest 23 p3767 N84-33881
Dielectric measurements of soils in the 3 to 37 GHz band between -50C and 23C 23 p3768 N84-33883
Estimating net rainfall, evaporation and water storage of a bare soil from sequential L-band emissivities
23 p3769 N84-33889
Investigation of spectral signatures of differently damaged trees and forest stands
23 p3769 N84-33892
Remote sensing of the marginal ice zone during Marginal Ice Zone Experiment (MIZEX) 83
23 p3772 N84-33910
Millimeter wave radiometric images of the marginal ice zone 23 p3772 N84-33912
Eddy studies during Marginal Ice Zone Experiment (MIZEX) 83 by ship and remote sensing observations
23 p3772 N84-33914
Passive microwave remote sensing of the atmosphere from satellites 23 p3774 N84-33923
Precipitation monitoring over land from satellites by microwave radiometry 23 p3774 N84-33924
Ground-based remote sensing of temperature and water vapor by passive microwave radiometers
23 p3774 N84-33925
Combined ground-based and satellite remote sensing of temperature 23 p3774 N84-33926
Remote sensing of rain by an airborne dual-frequency microwave scatterometer/radiometer
23 p3774 N84-33927
Simultaneous remote sensing of atmospheric turbulence by radar optical means: A comparison
23 p3775 N84-33932
Experimental validation of a millimeter wave radar technique to remotely sense atmospheric pressure at the Earth's surface 23 p3775 N84-33935
The International Geoscience and Remote Sensing Symposium (IGARSS) 84. Remote sensing: From research towards operational use, volume 2
[NASA-CR-173978] 23 p3777 N84-33946
Estimation of albedo and optical thickness with the radiative transfer method — microwave remote sensing
23 p3778 N84-33952
Multiresolution spatially constrained clustering of remotely sensed data on the massively parallel processor 23 p3779 N84-33962
Analysing remotely sensed data on the Massively Parallel Processor 23 p3779 N84-33963
Application of the discrete cosine transform to remote sensing image data compression
23 p3779 N84-33964
The influence of perturbing water properties in chlorophyll mapping 23 p3780 N84-33970
Oil spill detection with DFVLR X-band SLAR
23 p3781 N84-33973
An active remote sensing system to map location of underwater oil seeps 23 p3781 N84-33974
Laser remote sensing measurements of natural target reflectivities 23 p3782 N84-33983
Demonstration of an active airborne IR laser system for geologic remote sensing 23 p3782 N84-33984
Study of the system of middle atmosphere-ionosphere using remote-sensing data
[NASA-TM-77764] 23 p3797 N84-34074
Non-imaging remote sensing data
23 p3842 N84-34371
A national program for data collection platforms: Information techniques for users
[INPE-3137-NTE/219] 24 p3858 N84-34456
Outlook of lasers in space operations and navigation
24 p3904 N84-34722
Laser remote sensing at IROE
24 p3907 N84-34747
The use of TEA and multiatmosphere CO2 lasers in active remote sensing 24 p3907 N84-34749
The application of satellite data to study the effects of latent heat release on cyclones
24 p3925 N84-34841
Remote observations of severe storms
24 p3927 N84-34859
Analysis of lidar, radar and satellite measurements on severe thunderstorms and their environments
24 p3928 N84-34864
Methodology for interpretation of SST retrievals using the AVHRR split window algorithm
[NASA-TM-85100] 24 p3934 N84-34905
Remote sensing of coastal environment: The estuarine processes of Ta-Tu River 24 p3955 N84-35039
Preliminary study of LANDSAT imageries of Taiwan and its surroundings 24 p3956 N84-35050
The geologic and geophysical study of the Hengchung Peninsula, southern Taiwan, 1 24 p3957 N84-35052
Pulsed photothermal radiometry for noncontact spectroscopy, material testing and inspection measurement
[AD-A144640] 24 p3964 N84-35101

REMOTE SENSORS

Remote sensing applications of pulsed photothermal radiometry
[AD-A130154] 01 p0086 N84-10563
Multi-temporal analysis of LANDSAT imagery for bathymetry
[AD-A130648] 01 p0100 N84-10652
Laser remote sensing of atmospheric pollutants
[AD-A130259] 01 p0103 N84-10670
Optical systems and statistical optics
[AD-A131297] 02 p0294 N84-11928
Layout of a SAR sensor for Spacelab and satellite. Part 1: Design considerations for fundamental SAR parameters
[ESA-TT-802] 03 p0343 N84-12224
Earth Resources Laboratory research and technology
[E84-10033] 03 p0395 N84-12576
Remote sensing instruments for trace species measurements in the troposphere and stratosphere: A review 03 p0396 N84-12583
Contributions of remote sensing satellite tracking techniques to marine environment monitoring and marine applications 03 p0396 N84-12585
Remote sensing using the airborne MEIS 2 multidetector electro optical imaging scanner
03 p0397 N84-12592
Remote sensing of the Earth and agriculture
05 p0634 N84-14167
Data validation and summary for the NRL remote sensing experiment. Phelps Bank, July 1982. Part 1: Hydrography
[AD-A132083] 05 p0697 N84-14575
Active and passive remote sensing of ice
[AD-A133672] 05 p0697 N84-14577
Meteorological sensors for battlefield weather support
[AD-A132623] 05 p0709 N84-14643
Spectral characterization of the LANDSAT thematic mapper sensors
[E84-10065] 06 p0865 N84-15634
Multispectral Data Processing System (MDPS)
[AD-A133426] 06 p0896 N84-15816
A comparison of SMMR (Scanning Multichannel Microwave Radiometer) and airborne microwave measurements during GOASEX (Gulf of Alaska experiment)
[AD-A134514] 07 p1008 N84-16534
Investigation of design considerations for a complex demodulation filter
[NASA-CR-173295] 08 p1107 N84-17195
Navy tactical applications guide. Operational environmental satellites. Polar-orbiting satellites geostationary satellites, spacecraft, sensors, imagery
[AD-A135466] 08 p1113 N84-17240
Workshop on active microwave sensor design
08 p1177 N84-17667
Development of an advanced ocean-bottom sensor system
[AD-A135901] 09 p1345 N84-18788
Source signature recovery in reverberant structures
10 p1515 N84-19922
The automatic remote sensing system on a 320 meter meteorological tower
[AD-A137144] 10 p1539 N84-20085
Remote sensing of Earth terrain
12 p1831 N84-21938
Atmospheric effects on remote sensing of the Earth's surface 12 p1832 N84-21943
Coherent laser radar remote sensing
[AD-A139448] 14 p2151 N84-23885
Earth Resources: A continuing bibliography with indexes
[NASA-SP-7041(41)] 14 p2166 N84-23975
Analysis of airborne electromagnetic systems for mapping thickness of sea ice
[AD-A139786] 15 p2373 N84-25235
Initial alignment and augmentation of the ARINC 705 strapdown AHRS LTR-81 16 p2447 N84-25899
Image quality of passive and active scanners
[MBB-UA-684-83-O] 16 p2564 N84-26449
Development of land based radar polarimeter processor system
[NASA-CR-173636] 17 p2652 N84-26960
Ocean optical remote sensing capability statement
[AD-A140589] 17 p2721 N84-27321
NOSC (Naval Ocean Systems Center)-Hawaii perceptual sciences research program
[AD-P003361] 18 p2913 N84-28474
A voltmeter for remotely sensing high voltages
[AD-D011046] 19 p3027 N84-29199
A radiative transfer model for remote sensing of laser induced fluorescence of phytoplankton in non-homogeneous turbid water
[NASA-CR-173777] 19 p3063 N84-29432
Signal processor for remote optical interferometric sensors
[AD-D011045] 19 p3105 N84-29726

A description of the MIZEX 1984 remote sensing activities
[AD-A142296] 20 p3228 N84-30514
Undersea acoustic research
[AD-A142339] 20 p3291 N84-30891
A simulation of remote sensor systems and data processing algorithms for spectral feature classification
[NASA-CR-172393] 22 p3597 N84-32784
The applicability of improved remote sensing data for lithological and structural mapping
23 p3770 N84-33899
An active remote sensing system to map location of underwater oil seeps 23 p3781 N84-33974
Research in millimeter wave techniques
[NASA-CR-173964] 24 p3893 N84-34855
Multi-sensor surveillance 24 p3914 N84-34780

REMOTELY PILOTED VEHICLES
A preliminary study of solar powdered aircraft and associated power trains
[NASA-CR-3699] 04 p0486 N84-13194
Design considerations for remotely piloted, high-altitude airplanes powered by microwave energy
[NASA-TM-85730] 06 p0786 N84-15145
Electric Remotely Piloted Vehicle (ERPV)
[AD-A136201] 09 p1310 N84-18563
Vibration test environments for electronics mounted in a remotely piloted vehicle 10 p1513 N84-19903
Vibration test software for electronics mounted in a remotely piloted vehicle 10 p1513 N84-19904
A review of recent developments in flight test techniques at the Ames Research Center, Dryden Flight Research Facility
[NASA-TM-86039] 11 p1606 N84-20515
Evaluation of army remotely piloted vehicle mission payload operator performance in simulated artillery missions
[AD-A137602] 11 p1703 N84-21103
The role of simulation in the development and flight test of the HIMAT vehicle
[NASA-TM-84912] 12 p1769 N84-21537
Preliminary experience with a stereoscopic video system in a remotely piloted aircraft application
[NASA-TM-84909] 13 p1931 N84-22557
The structural and aerodynamic behaviour of a semi-inflatable wing
[BU-297] 15 p2260 N84-24574
Report of an overseas visit to the USA, part 2
[AD-A142054] 19 p2955 N84-28729
Simulator evaluation of a remotely piloted vehicle lateral landing task using a visual display
[NASA-TM-85803] 20 p3131 N84-29885
Distributed problem solving for air fleet control: Framework and implementations
[AD-A143168] 21 p3327 N84-31108
Aerodynamic feasibility for airborne retrieval of a remotely piloted vehicle
[AD-A143695] 23 p3693 N84-33404
Naval applications for Remotely Piloted Vehicles (RPV's)
[AD-A143826] 23 p3693 N84-33405

REMOVAL
Electrolytic gettering of tritius from air
[DE84-000174] 04 p0496 N84-13252
Improved paint removal technique
[AD-A136671] 10 p1467 N84-19580
Technique for removing resin from a molded object
[NASA-TM-77240] 11 p1641 N84-20729
Bias removal for conventional magnetotelluric data
[DE84-012189] 20 p3241 N84-30579
Observation of advanced particle removal rates in pump limiter simulation experiments
[DE84-014327] 22 p3660 N84-33202

RENAL CALCULI
U CALCULI

RENAL FUNCTION
Water immersion and its computer simulation as analogs of weightlessness
[NASA-CR-171746] 08 p1200 N84-17821
Pharmacologic counter measures minimizing post-space flight orthostatic intolerance — bed rest, drug disposition, and physiological function
[NASA-CR-173861] 21 p3457 N84-31936

RENDEZVOUS
NT EARTH ORBITAL RENDEZVOUS
NT ORBITAL RENDEZVOUS
NT SPACE RENDEZVOUS

RENDEZVOUS GUIDANCE
Polarized-interferometer feasibility study
[NASA-CR-170979] 11 p1656 N84-20805
Ku-Band rendezvous radar performance computer simulation model
[NASA-CR-171804] 22 p3576 N84-32650
Detailed system studies on rendezvous and docking
[ERNO-RX-015-2/83] 23 p3697 N84-33427

RENDEZVOUS TRAJECTORIES
The influence of sensor and thruster imperfections on the attitude and position of a spacecraft performing a rendezvous 15 p2267 N84-24615
Control aspects as elaborated in space rendezvous simulations 15 p2268 N84-24616

RENE 95
Fatigue crack growth and low cycle fatigue of two nickel base superalloys
[NASA-CR-174534] 01 p0042 N84-10267

REORIENTATION
U RETRAINING

REPAIRING
U MAINTENANCE

REPEATERS
Mobile radio alternative systems study. Volume 2: Terrestrial — rural areas
[NASA-CR-168063] 01 p0061 N84-10403
Optical analog repeater development for a one GHz bandwidth recirculating delay line
[AD-A133658] 05 p0675 N84-14437
The meteorological data distribution mission on board SIRIO satellite 06 p0907 N84-15891
The 1.4 gb/s optical repeater development
[AD-A143331] 22 p3657 N84-33182

REPETITION
Methods of optimizing parameters of mechanisms performing repeated brief operations
[BLL-M-35352] 04 p0543 N84-13575
The detectability of repetitive, periodic impulses
[AD-A132744] 05 p0713 N84-14675
Calculations of repeatability — of experimental results
[NPL-RS(EXT)-69] 12 p1896 N84-22347
Pulse driver for flux gate magnetometer
[AD-D011053] 22 p3596 N84-32774

REPLACING
Mechanical fastener
[NASA-CASE-LAR-12738-2] 06 p0795 N84-15180
Preventive maintenance intervals for components of the F-15/F100 aircraft engine
[AD-A135637] 09 p1249 N84-18156
Dynamic module replacement in a distributed programming system
[AD-A140619] 17 p2752 N84-27469

REPORTS
NT CONGRESSIONAL REPORTS
NT PRESIDENTIAL REPORTS
NT WAGE SURVEYS
Fourth Europhysical Conference on Lattice Defects in Ionic Crystals
[AD-A132387] 04 p0612 N84-14039
Incident reporting: Its role in aviation safety and the acquisition of human error data
06 p0775 N84-15081
Second All-Union Seminar on Hydromechanics and Heat-Mass Transfer in Weightlessness. Abstracts of reports: Table of contents
[NASA-TM-77534] 09 p1312 N84-18576
Laser and plasma research
[AD-A136519] 09 p1397 N84-19125
Assessment of the NASA Flight Assurance Review Program
[NASA-CR-173418] 13 p2066 N84-23401
Technical publications of the NASA Wallops Flight Facility, 1960 through 1983
[NASA-TM-84421] 16 p2566 N84-26467
Publications and reports of the Institute of Oceanographic Sciences 1979-1982
[IOS-170] 18 p2892 N84-28354
National Center for Atmospheric Research
[PB84-183581] 20 p3249 N84-30621
Research activities. Part 1: Statements
[ISBN-3-7983-0959-0] 20 p3321 N84-31082
Status tracking system for reports
22 p3672 N84-33276

REPRESENTATIONS
Representation of information in software documentation
[AD-A131470] 02 p0273 N84-11783

REPRODUCTION (BIOLOGY)
Effects of simulated weightlessness on mammalian development. Part 1: Development of clinostat for mammalian tissue culture and use in studies on meiotic maturation of mouse oocytes 09 p1357 N84-18868
Hyper-gravitational effects on metabolism and thermoregulation 09 p1358 N84-18871
Biological effects of electric fields: An overview
[DE84-005888] 12 p1864 N84-22144

REPRODUCTION (COPYING)
Typesetting and TROFF
[MC-IW-247/83] 17 p2772 N84-27601

REPUBLIC AIRCRAFT
NT A-10 AIRCRAFT

REPUBLIC MILITARY AIRCRAFT
U MILITARY AIRCRAFT

REPULSION
U FORCE

REQUIREMENTS
Auxiliary power requirements: Their role in aircraft performance 03 p0334 N84-12169
Secondary power systems for fighter aircraft experiences today and requirements for a next generation 03 p0334 N84-12171
Maintenance communications for the 1990's
[AD-A133978] 05 p0666 N84-14383
Computer program development specification for Ada integrated environment: MAPSE debugging facilities, B5-AIE(1).DBUG(1)
[AD-A134070] 05 p0727 N84-14771
A guideline for the planning and system requirement determination of a computer based educational system
[AD-A133529] 06 p0898 N84-15829
Establishment and discontinuance criteria for precision landing systems
[AD-A135606] 09 p1254 N84-18185
Space station needs, attributes and architectural options study. Volume 3: Requirements
[NASA-CR-173332] 09 p1266 N84-18267
Space station needs, attributes and architectural options. Part 1: Summary
[NASA-CR-175382] 09 p1267 N84-18270
ARDS (Automated Requirements Development System) user's manual. Volume 1: Document analysis, revision
[AD-A135925] 09 p1398 N84-19128
Graphics specification for graphical requirements for computer-aided control system design
[DE84-004367] 11 p1708 N84-21135
Current design requirements for corrosion control on helicopters 16 p2434 N84-25616
Current requirements on specifications for corrosion prevention 16 p2435 N84-25618
Feasibility of using Photovoltaic Power Systems (PPS) with High Pressure Sodium (HPS) lamps for magazine entry lighting
[AD-A140146] 16 p2519 N84-26169
Space Station commercial user development
[NASA-CR-173688] 18 p2798 N84-27758
USAF durability design handbook: Guidelines for the analysis and design of durable aircraft structures
[AD-A142424] 20 p3128 N84-29666
Implementation strategy 20 p3219 N84-30453
Digital avionics design for validation
[AD-P003571] 21 p3337 N84-31176
Physical properties of CdTe films grown by hotwall and molecular beam techniques
[AD-A143180] 22 p3662 N84-33214
AVCAL (Aviation Consolidated Allowance) restoration program and aircraft material condition
[AD-A144045] 23 p3687 N84-33366
Development of accelerated fuel-engine qualification procedures
[AD-A143845] 23 p3693 N84-33406
Administrative obstacles to robotization recalled
23 p3728 N84-33626

RESCUE OPERATIONS
Escape and rescue model 04 p0512 N84-13361
Analysis of US Coast Guard HU-25A visual and radar detection performance
[AD-A133380] 06 p0784 N84-15138
Satellite aided navigation (INNAVSAT)
[BMFT-FB-W-84-003] 19 p2962 N84-28772
Test and evaluation of the Satellite-Aided Maritime Search and Rescue System (SAMSARS). Volume 1: System description and test results
[PB84-184621] 22 p3540 N84-32412
Test and evaluation of the Satellite-Aided Maritime Search and Rescue System (SAMSARS). Volume 2: Hardware circuitry and software programs
[PB84-184639] 22 p3540 N84-32413
The role of the Shuttle Engineering Simulator in the Solar Max rescue mission 24 p3864 N84-34489

RESEARCH
NT DYNAMIC PROGRAMMING
NT GAME THEORY
NT HIGH TEMPERATURE RESEARCH
NT LINEAR PROGRAMMING
NT MARKET RESEARCH
NT MATHEMATICAL PROGRAMMING
NT NONLINEAR PROGRAMMING
NT OPERATIONS RESEARCH
NT QUADRATIC PROGRAMMING
Ion-source and ion-accelerator development at Los Alamos
[DE83-014123] 01 p0146 N84-10959
National Science Foundation authorization, 1984 authorization
[GPO-21-280] 02 p0303 N84-11990
USAF/SCEEE summary faculty research program (1982) research reports, volume 2
[AD-A130770] 03 p0457 N84-13009

Review of astrophysical research at Los Alamos
[DE83-017304] 04 p0620 N84-14091
A summary of the Naval Postgraduate School Research Program
[AD-A132871] 05 p0766 N84-15024
Loads and aeroelasticity division research and technology accomplishments for FY 1982 and plans for FY 1983
[NASA-TM-84594] 06 p0782 N84-15120
Research reports: 1983 NASA/ASEE Summer Faculty Fellowship Program
[NASA-CR-170942] 06 p0927 N84-16022
Identification of new potential scientific and technology areas for DoD application. Summary of activities
[AD-A134372] 07 p1084 N84-17050
Defense, energy, and basic research at the Los Alamos National Laboratory
[DE83-015241] 07 p1094 N84-17116
Research and technology report, 1983
[NASA-TM-85865] 08 p1247 N84-18152
US Army Medical Bioengineering Research and Development Laboratory, fiscal year 1983
[AD-A136926] 10 p1545 N84-20129
Research activities at the Institute for Aerospace Studies, 1982 12 p1917 N84-22492
Active Program Research Requirements (APRR), volume 1
[DE84-002141] 12 p1921 N84-22513
Space research and cosmic plasma physics
[TRITA-EPP-83-06] 12 p1922 N84-22520
ONR-Sponsored meeting to discuss South Atlantic and Indian Ocean physical oceanographic research
[AD-A140030] 15 p2374 N84-25242
Results of a research study to identify historical RDTE (Research, Development, Test and Evaluation) obligations and expenditures on major Army material and non-material systems
[AD-A139328] 15 p2416 N84-25508
Arctic Research and Policy Act of 1983
[GPO-171] 15 p2419 N84-25527
Research activities in advanced techniques 16 p2565 N84-26456
ONR (Office of Naval Research) Far East Scientific Bulletin. Volume 9, Number 1, January to March 1984
[AD-A140826] 17 p2770 N84-27589
Bibliography of Supersonic Cruise Research (SCR) program from 1980 to 1983
[NASA-RP-1117] 18 p2785 N84-27674
US Army Research Institute 1983 report
[AD-A141821] 19 p3115 N84-29790
Institutional supporting research highlights in physics and mathematics, fiscal year 1983
[DE84-011025] 20 p3284 N84-30655
Undersea acoustic research
[AD-A142339] 20 p3291 N84-30691
Research activities. Part 1: Statements
[ISBN-3-7983-0959-0] 20 p3321 N84-31082
Polar research board report, 1983 and future plans
[PB84-194315] 21 p3433 N84-31779
Research in nonlinear motion
[AD-A143000] 21 p3473 N84-32013
Solid state research
[AD-A142991] 21 p3504 N84-32204
Physics in Europe: A data file of selected research
[AD-A143428] 22 p3674 N84-33269
Summaries of FY 1983 engineering research
[DOE/ER-0158/1] 23 p3727 N84-33614
Activities of the Technical Physics Service of the Dutch Central Organization for Scientific Research, past and present 23 p3845 N84-34393
Autonomous microprocessor controllers for scientific research automation systems 24 p3941 N84-34946
Summaries of the FY 1983 applied mathematical sciences research program
[DOE/ER-0157/1] 24 p3950 N84-35010
Managerial and organizational determinants of efficiency in research teams (social sciences)
[AD-A144153] 24 p3968 N84-35125

RESEARCH AIRCRAFT
NT ROTOR SYSTEMS RESEARCH AIRCRAFT
NT U-2 AIRCRAFT
Empirical study of HF air to ground communications at the Research Facilities Center based on radio logs, 1973 - 1982
[PB83-222588] 01 p0068 N84-10447
In-flight acoustic testing techniques using the YO-3A Acoustic Research Aircraft
[NASA-TM-85895] 10 p1427 N84-19334
Theoretical and measured airflow about the Twin Otter wing
[AD-A141974] 20 p3126 N84-29855
Future requirements for airborne simulation
[AGARD-AR-186] 22 p3536 N84-32401

RESEARCH AND DEVELOPMENT
Aeronautics Research and Technology Program and specific objectives, fiscal year 1982
[NASA-TM-85474] 01 p0002 N84-10011
Overview of US activities in IEA hydrogen technology. Annex 4: Electrolytic hydrogen production
[DE83-013064] 01 p0053 N84-10344
Designers voice complaints, suggestions regarding their work 01 p0055 N84-10354
Soviet economist discusses efficient use of scientific potential 01 p0055 N84-10355
Scientists discuss increased production with fewer workers 01 p0055 N84-10356
Uzbek scientific intelligentsia under developed Socialism 01 p0056 N84-10365
Electrochemical-Storage-Systems Program summary
[DE83-011254] 01 p0075 N84-10493
Stronger union of science and industry demanded 01 p0157 N84-11037
Academic science/engineering: R and D funds, fiscal year 1981(detailed statistical tables)
[PB83-228213] 01 p0160 N84-11057
Joint University Program for Air Transportation Research, 1982
[NASA-CP-2285] 02 p0167 N84-11099
Relationship of characteristics of the research methods used in two subfields of geology and the growth of published research in those subfields 02 p0245 N84-11608
Earth Resources Laboratory research and technology
[E84-10033] 03 p0395 N84-12576
Portrait of the Max-Planck research organization and its institutes 03 p0458 N84-13015
A proposed RF-technology R/D plan for the United States
[DE84-000643] 04 p0522 N84-13434
Research, development and demonstration of lead-acid batteries for electric vehicle propulsion
[DE84-000468] 04 p0527 N84-13464
Assessment of the adequacy of US accelerator technology for Department of Energy Missions
[DE84-001632] 04 p0598 N84-13945
Activities report in communications research performed in cooperation with Higher Institute for Posts and Telegraph (ISPT) 06 p0826 N84-15364
Aeronautical propulsion: Present status and future directions
[NASA-TM-83589] 07 p0943 N84-16119
Development of flight mechanics research in Brunswick 07 p0944 N84-16121
Development and Use of Numerical and Factual Data Bases
[AGARD-LS-130] 07 p1085 N84-17059
A 1983 science and technology posture hearing with Director, Office of Science and Technology Policy
[GPO-21-095] 08 p1237 N84-18085
Further delineation of the utilization of scientific literature by U.S. patents
[PB84-100734] 08 p1238 N84-18095
Research and development joint ventures
[GPO-26-312] 08 p1241 N84-18114
National Aeronautics and Space Administration Act, 1985 08 p1241 N84-18116
Aerospace research activities 09 p1253 N84-18179
Spaceborne Gravity Gradiometers. Part 1: Summary and recommendations 09 p1335 N84-18717
Earth science investigations in the United States Antarctic Research Program (USARP)
[PB84-119460] 09 p1336 N84-18722
El Nino and the southern oscillation: A scientific plan
[PB84-129733] 09 p1351 N84-18825
Blanket comparison and selection study, volume 1
[DE84-003657] 10 p1585 N84-20392
Documents on industrial research
[AGF-DOK-1/1983] 10 p1592 N84-20429
Industrial research and industry: Forms of collaboration and participation
[AGF-DOK-2/1983] 10 p1592 N84-20430
NASA control research overview 11 p1615 N84-20568
Management of aerospace contract documentation by industry and government 11 p1752 N84-21434
Department of Housing and Urban Development-independent agencies appropriations for 1984: National Aeronautics and Space Administration 11 p1753 N84-21440
Authorizing appropriations to the National Aeronautics and Space Administration for fiscal year 1985
[H-REPT-98-629] 11 p1753 N84-21441
National Aeronautics and Space Administration Authorization Act, 1985 11 p1753 N84-21443
National Aeronautics and Space Administration Authorization Act, 1985
[H-REPT-98-629] 11 p1753 N84-21444
Developments in science and technology
[JHU/APL/DST-10] 11 p1761 N84-21491
Benefits from satellite programs cited 12 p1776 N84-21584
Economic implications of current systems 12 p1838 N84-21982
ECUT: Energy Conversion and Utilization Technologies program. Heterogeneous catalysis modeling program concept
[NASA-CR-173463] 12 p1842 N84-22012
Solid modelling: History, status and current research directions 12 p1870 N84-22187
Guides to aerospace research and development in NATO countries. Bibliography
[AGARD-R-718] 12 p1920 N84-22509
Technology review of flight crucial flight controls
[NASA-CR-172332] 13 p1934 N84-22583
Current trends in atomic spectroscopy
[PB84-162957] 13 p1959 N84-22732
Scientific activity in hydrology, 1979-1982 13 p2005 N84-23010
West Europe report: Science and technology
[JPRS-WST-84-011] 13 p2038 N84-23224
Magnetic fusion energy research and development
[DE84-007089] 13 p2045 N84-23270
Strengthening small business participation in Department of Defense extramural research and development
[AD-P002832] 13 p2063 N84-23377
USSR report: Science and technology policy
[JPRS-UST-84-004] 13 p2064 N84-23387
Use of economic mechanisms in managing scientific and technical progress 13 p2064 N84-23389
Prerequisites for scientific-technical progress enumerated 13 p2065 N84-23395
Polymer Science and Standards Divisions report, 1983 14 p2130 N84-23773
Providing R and D (Research and Development) test fuels from alternate energy sources: An assessment of options
[NASA-CR-173427] 14 p2133 N84-23783
East Europe report: Scientific affairs
[JPRS-ESA-84-009] 14 p2136 N84-23802
Calendar of AGARD technical meetings 1984 14 p2252 N84-24526
An overview of NASA intermittent combustion engine research
[NASA-TM-83668] 15 p2261 N84-24583
Worldwide report: Telecommunications policy, research and development
[JPRS-TTP-84-005] 15 p2327 N84-24971
The 1985 NASA authorization
[GPO-31-453] 15 p2419 N84-25526
Future of aeronautics
[GPO-29-744] 15 p2419 N84-25529
Development testing: Use of sea level test beds and rigs 16 p2453 N84-25726
Application of surface acoustic wave devices to radio telemetry
[NASA-CR-173597] 16 p2457 N84-25756
Unified database development program
[AD-A140309] 16 p2567 N84-26471
Spaceborne sensors (1983-2000 AD): A forecast of technology
[NASA-TM-86083] 17 p2616 N84-26743
Sweden's STU proposes funding for metals, ceramics approach 17 p2640 N84-26890
Siemens strategy includes DM 1 billion for submicrons IC's 17 p2640 N84-26893
Materials research activities at the National Bureau of Standards (1975-1982) pertaining to active solar heating and cooling systems
[PB84-154780] 17 p2723 N84-27332
Study of aerodynamic technology for single-cruise-engine VSTOL fighter/attack aircraft, phase 1
[NASA-CR-166268] 18 p2788 N84-27693
Continuing research at Solar Steam, Incorporated 18 p2873 N84-28238
Brayton module development overview 18 p2874 N84-28245
Near-term Brayton module status 18 p2874 N84-28246
Activities report of the Department of Chemistry
[OEFZS-4273] 18 p2931 N84-28588
NASA-Ames Summer High School Apprenticeship Research Program (SHARP)
[NASA-TM-85554] 18 p2943 N84-28661
Advanced Gas Turbine (AGT)
[NASA-CR-174694] 19 p3117 N84-29805
Some aerodynamic discoveries and related NACA/NASA research programs following World War 2
[NASA-TM-86258] 20 p3125 N84-29847
Electronics Division research and development
[DE84-011024] 20 p3180 N84-30200

Photovoltaics: Electricity from Sunlight, five-year research plan, 1984-1988
[DE84-010679] 20 p3236 N84-30544
National Center for Atmospheric Research
[PB84-183581] 20 p3249 N84-30621
Review of the Third Biennial Conference on Real-Time Computer Applications in Nuclear and Particle Physics
[DE84-002457] 20 p3266 N84-30720
Guide to graphics at ANL, revised
[DE84-013189] 20 p3274 N84-30786
New directions in linear accelerators
[DE84-011412] 20 p3294 N84-30911
Appropriate Technology Small Grants Program evaluation, volume 1: Executive summary
[DE84-010675] 20 p3313 N84-31038
Appropriate Technology Small Grants Program evaluation, volume 2
[DE84-010674] 20 p3313 N84-31039
Science and technology report to the Congress, 1982
[DE84-901150] 20 p3313 N84-31040
Federal funds for research and development, fiscal years 1981, 1982 and 1983, volume 31
[PB84-189596] 20 p3314 N84-31045
Federal funds for research and development, fiscal years 1982, 1983 and 1984. Volume 32: Detailed statistical tables
[PB84-189604] 20 p3314 N84-31046
Historical research and development inflation indices for Army fixed and rotor winged aircraft
[AD-A142943] 21 p3323 N84-31085
DMA (Defense Mapping Agency): The digital revolution
[AD-A142787] 21 p3431 N84-31767
The influence of Computer Aided Design (CAD) on research — aircraft design
[NLR-MP-83026-U] 21 p3467 N84-31984
Guide to programs, fiscal year 1984: Guide describing National Science Foundation programs and activities
[PB84-193226] 21 p3516 N84-32270
Technology, innovation and regional economic development. Background paper 2: Encouraging high-technology development
[PB84-180181] 21 p3522 N84-32310
CSIR activities in South Africa
[ISBN-0-7988-3029-8] 21 p3527 N84-32340
Plasma switch development
[AD-A143233] 22 p3586 N84-32711
Quantitative treatment of fuzzy relations in the process of allocating resources to R and D projects
[INPE-2761-PRE/336] 22 p3668 N84-33251
Oversight on the Federal Aviation Administration fiscal year 1985 research, engineering and development budget request
[GPO-34-924] 22 p3676 N84-33302
Custom integrated circuits 22 p3684 N84-33361
NASA Ames summary high school apprenticeship research program, 1983 research papers
[NASA-TM-85931] 22 p3684 N84-33365
Powder metallurgy R and D organizations featured
23 p3707 N84-33502
Evaluation of microstrip radiators as feeds for reflector antenna — satellite antenna
[ERA-83-0056] 23 p3732 N84-33655
Worldwide report: Telecommunications policy, research and development
[JPRS-TTP-84-029] 23 p3732 N84-33657
Worldwide report: Telecommunications policy, research and development
[JPRS-TTP-84-002] 24 p3891 N84-34634
Commentary on Philips R and D strategy, policies, major efforts 24 p3892 N84-34647
The ESA technological research programs
24 p3903 N84-34717
East Europe report: Science and technology
[JPRS-ESA-84-025] 24 p3960 N84-35077
CEMA computer hardware cooperation
24 p3960 N84-35079
Socialist countries cooperate in computer R and D
24 p3961 N84-35081

RESEARCH FACILITIES

Research facilities report, fiscal year 1982
[PB83-224857] 01 p0110 N84-10713
Chemical/hydrogen energy systems
[DE83-012145] 02 p0204 N84-11328
Electronics research at the University of Texas at Austin
[AD-A131130] 02 p0213 N84-11397
Proceedings of the 16th LAMPF Users-Group Meeting
[DE83-013215] 03 p0382 N84-12488
Portrait of the Max-Planck research organization and its institutes 03 p0458 N84-13015
Overview of composites capability at Lawrence Livermore National Laboratory
[DE84-001086] 04 p0492 N84-13228
Large laser system facility design
[DE84-000159] 04 p0540 N84-13553
Pressure system recertification at NASA-Langley Research Center
[NASA-TM-85733] 04 p0543 N84-13576
The Prandtl Hergesell project of a National Research Establishment for Aeronautics
[DFVLR-MITT-83-10] 06 p1096 N84-17123
Joint industry/university cooperation with federally supported research facilities
[GPO-24-902] 08 p1241 N84-18115
High energy physics facilities
[GPO-30-261] 15 p2408 N84-25444
Technical publications of the NASA Wallops Flight Facility, 1960 through 1983
[NASA-TM-84421] 16 p2566 N84-26467
Langley aeronautics and space test highlights, 1983
[NASA-TM-85806] 16 p2583 N84-26584
Japanese research institutes funded by private corporations
[AD-A140892] 17 p2772 N84-27600
National Aerospace Laboratory, 1982
19 p2969 N84-28813
The F2 wind tunnel at Fauga-Mauzac
[NASA-TM-77482] 19 p2969 N84-28814
Studies of US universities' research equipment needs inconclusive
[AD-A141784] 19 p2970 N84-28821
Directory of Federal technology resources, 1984
[PB84-100015] 19 p3115 N84-29793
Experimental facilities to study hydrogen combustion and detonation
[DE84-006998] 20 p3149 N84-29997
Scientific-Technical Facilities Department. Scientific-technical report
[ESA-TT-843] 20 p3321 N84-31083
Studies in a transonic rotor aerodynamics and noise facility
[NASA-CR-166588] 22 p3538 N84-32399
Laser furnace technology for zone refining
[NASA-TM-86459] 22 p3600 N84-32805
Compendium of US incompressible flow facilities
[AD-A143650] 23 p3696 N84-33424
Computers on the job 24 p3941 N84-34945

RESEARCH MANAGEMENT

Status of wind-turbine wakes research in the federal wind energy program
[DE83-013828] 01 p0005 N84-10033
Research needs for the use of polymer coatings for corrosion protection
[DE83-015443] 01 p0051 N84-10328
Research on fire-resistant diesel fuel flammability mitigation mechanisms
[AD-A130743] 01 p0052 N84-10337
Academician outlines accomplishments, new developments in optical physics
01 p0055 N84-10359
Workshop on Research Techniques in Wave Propagation and Scattering
[AD-A130270] 01 p0063 N84-10415
Research in electronics: Joint services electronics program
[AD-A130791] 01 p0072 N84-10470
USAF/SCEEE summary faculty research program, research reports, volume 1
[AD-A130769] 01 p0157 N84-11032
Papers for and a summary of a Workshop on The Role of Basic Research in Science and Technology: Case Studies in Energy R and D (Research and Development)
[PB83-213637] 01 p0159 N84-11052
Electronics research at the University of Texas at Austin
[AD-A131130] 02 p0213 N84-11397
Relationship of characteristics of the research methods used in two subfields of geology and the growth of published research in those subfields
02 p0245 N84-11608
Composition of the WMO
[WMO-5] 02 p0254 N84-11660
Report of the Fourth Session of the Joint Scientific Committee — of the WMO 02 p0256 N84-11679
A methodology for collecting valid software engineering data
[AD-A131332] 02 p0272 N84-11781
Strengthening the government-university partnership in science
[PB83-230670] 02 p0302 N84-11979
Portrait of the Max-Planck research organization and its institutes 03 p0458 N84-13015
Information retrieval research support
[AD-A131990] 03 p0459 N84-13022
Proposed plan for joint research program between Japan, the USA and Canada concerning gas toxicity in fires 04 p0514 N84-13378
Inventory of federal materials research and technology, fiscal year 1982
[PB83-256610] 05 p0758 N84-14970
Factors explaining decisions to terminate or continue an R and D project, executive summary
[PB83-256602] 05 p0758 N84-14971
Factors explaining decisions to terminate or continue an R and D project
[PB83-256594] 05 p0758 N84-14972
FY 1983 scientific and technical reports, articles, papers and presentations
[NASA-TM-82547] 05 p0759 N84-14974
Bibliography of Soviet Laser Developments, number 60, July August 1982
[AD-A133932] 05 p0759 N84-14978
European Scientific Notes, volume 37, number 7
[AD-A132676] 05 p0759 N84-14979
European Scientific Notes. Volume 37, number 9
[AD-A133558] 06 p0935 N84-16079
Research report program of the US Army in Europe
07 p0944 N84-16122
UNISPACE-82: Recommendations addressed to member states on the development of indigenous capabilities and follow-up actions for their implementation
[INPE-2915-PRE/427] 07 p1067 N84-17071
Basic and applied research in the field of electronics and communications
[AD-A135283] 08 p1150 N84-17487
Providing comprehensive national policy dealing with national needs and objectives in the Arctic and national materials policy
[H-REPT-98-593] 08 p1173 N84-17640
Standard research materials: Feces and urine
08 p1205 N84-17854
ONR Far East Scientific Bulletin. Volume 8, no. 3, July - September 1983
[AD-A134272] 08 p1240 N84-18109
Spaceborne Gravity Gradiometers. Part 5: Development plan 09 p1336 N84-18721
Research on shock models, wear processes, replacement and maintenance policies
[AD-A135620] 09 p1382 N84-19028
The Microelectronics Center: A new force in cooperative VLSI signal processing research
09 p1403 N84-19166
European Scientific Notes, volume 37, no. 12
[AD-A135883] 09 p1404 N84-19173
Functioning of mathematics in institutes for applied scientific research
[NLR-MP-82056-U] 10 p1572 N84-20300
European Scientific Notes, Volume 38, Number 2
[AD-A137652] 11 p1748 N84-21394
National Aeronautics and Space Administration Authorization Act, 1985 11 p1753 N84-21443
National Aeronautics and Space Administration Authorization Act, 1985
[H-REPT-98-629] 11 p1753 N84-21444
R and D decision methods for photovoltaic program planning
[DE84-000011] 12 p1918 N84-22494
European Scientific Notes, volume 38, no. 3
[AD-A138163] 12 p1918 N84-22496
A survey of European robotics research
[AD-A138952] 13 p2024 N84-23122
Thomson semiconductors bipolar IC strategy to 1986
13 p2039 N84-23227
Assumption of risk in the R and D environment
[AD-P002757] 13 p2051 N84-23304
Closing the gap between R and D and application in academe to better support government and industry
[AD-P002761] 13 p2052 N84-23306
New initiatives in international programs
[AD-P002813] 13 p2060 N84-23359
Strengthening small business participation in Department of Defense extramural research and development
[AD-P002832] 13 p2063 N84-23377
Air Force Systems Command research planning guide (research objectives)
[AD-A138851] 13 p2064 N84-23384
Activities of the Hydrogen Energy Coordinating Committee: Summary of DOE hydrogen programs for FY 1983
[DE84-007016] 14 p2172 N84-24011
Rocky Flats Wind Energy Research Center, fiscal year 1982
[DE84-006829] 14 p2173 N84-24013
Experimental design: Review and comment
[AD-A139268] 14 p2218 N84-24309
Current trends in atomic spectroscopy. Report on a workshop held in Tucson, Arizona, October 24-26, 1982
[AD-A139288] 14 p2222 N84-24333
NASA/Howard University Large Space Structures Institute
[NASA-CR-173425] 14 p2244 N84-24476
United States Air Force summer faculty research program, 1983. Program management report
[AD-A139366] 14 p2245 N84-24484

The Department of Defense statement on the science and technology program by Dr. Edith W. Martin, Deputy Under Secretary of Defense for Research and Advanced Technology before the Subcommittee on Research and Development of the Committee on Armed Services of the United States House of Representatives, 98th Congress, second session
[AD-A139402] 14 p2246 N84-24488
Overview of DOE-sponsored heat pump research
[DE84-007561] 15 p2333 N84-25011
European scientific notes. Volume 38, Number 4
[AD-A140039] 15 p2416 N84-25506
The 1985 NASA authorization
[GPO-31-453] 15 p2419 N84-25526
Space systems environmental interactions technology program
[AD-P002125] 16 p2525 N84-26211
Spaceborne sensors (1983-2000 AD): A forecast of technology
[NASA-TM-86083] 17 p2616 N84-26743
Research opportunities in bone demineralization, phase 3
[NASA-CR-3795] 17 p2743 N84-27417
Integrated Application of Active Controls (IAAC) technology to an advanced subsonic transport project: Current and advanced act control system definition study
[NASA-CR-3545] 18 p2796 N84-27744
Proceedings of a Workshop on Research Needs in Heterogeneous Tropospheric Chemistry
[NASA-CP-2320] 18 p2855 N84-28131
ECUT: Energy Conversion and Utilization Technologies program - Biocatalysis research activity
[NASA-CR-173752] 18 p2888 N84-28207
Aircrew performance with simulated advanced radar and FLIR (Forward Looking Infrared) sensors in single- and two-place crew stations
[AD-P003269] 18 p2907 N84-28434
The assessment of nonionizing radiation hazards
[AD-P003294] 18 p2908 N84-28444
Research Integration: An essential for Department of Defense psychological research
[AD-P003366] 18 p2913 N84-28479
National Aerospace Laboratory, 1982
19 p2969 N84-28813
Research in the areas of stochastic control under partial observations, nonlinear filtering, large deviations for nearly deterministic processes, and transition and invariant densities for nearly deterministic diffusions
[AD-A142191] 19 p3115 N84-29791
Format requirements for scientific and technical reports prepared by or for the Department of Defense
[AD-A141758] 19 p3116 N84-29799
Salyut: Soviet steps toward permanent human presence in space
[PB84-181437] 20 p3135 N84-29905
Dynamic powder compaction
[DE84-006133] 20 p3170 N84-30132
Photovoltaics: Electricity from Sunlight, five-year research plan, 1984-1988
[DE84-010679] 20 p3236 N84-30544
A study of research needs and priorities in radioactive waste management
[DE84-009045] 20 p3298 N84-30946
Appropriate Technology Small Grants Program evaluation, volume 2
[DE84-010674] 20 p3313 N84-31039
Science and technology report to the Congress, 1982
[DE84-901150] 20 p3313 N84-31040
National Science Foundation, volume 1
[PB84-193234] 20 p3316 N84-31061
Scientific-Technical Facilities Department. Scientific-technical report
[ESA-TT-843] 20 p3321 N84-31083
Historical research and development inflation indices for Army fixed and rotor winged aircraft
[AD-A142943] 21 p3323 N84-31085
Space research in Pakistan: A relentless pursuit
21 p3346 N84-31227
Technology transfer revisited
[DE84-012233] 21 p3519 N84-32293
CSIR activities in South Africa
[ISBN-0-7988-3029-8] 21 p3527 N84-32340
The NASA photovoltaic technology program
[NASA-TM-83685] 22 p3542 N84-32426
Summary status of advanced water electrolysis and hydrogen storage/transport research and development
[DE84-012906] 22 p3547 N84-32456
Parts on demand: Evaluation of approaches to achieve flexible manufacturing systems for Navy parts on demand, volume 1
[AD-A143248] 22 p3604 N84-32830
European scientific notes, Volume 38, Number 7
[AD-A143238] 22 p3674 N84-33267
Advanced X-ray Astrophysics Facility (AXAF)
[NASA-CR-171156] 23 p3698 N84-33434
Difficulties of scientific and technological planning
[INPE-2786-PRE/352] 23 p3832 N84-34306
ESA and its programs: Present and future
24 p3903 N84-34716
Viking lander: Creating the science teams
24 p3991 N84-35255
Safe havens: Selecting landing sites for Viking
24 p3991 N84-35257
Site certification and landing 24 p3991 N84-35258

RESEARCH PROJECTS
Atmospheric Sciences Division
[DE83-014429] 01 p0098 N84-10639
Laser-induced fluorescence spectroscopy for improved chemical analysis
[DE84-000629] 04 p0494 N84-13243
Photovoltaic-cell-research priorities
[DE84-000066] 04 p0559 N84-13683
Double beta decay: Recent developments and projections
[DE84-000476] 04 p0596 N84-13944
Fundamental combustion and diagnostics research at Sandia
[DE84-001787] 05 p0651 N84-14280
X-ray holographic microscopy experiments at the Brookhaven synchrotron light source
[DE84-004289] 10 p1499 N84-19796
ORNL trends and balances, 1984-1989
[DE84-006320] 11 p1746 N84-21397
Achievements and plans of the Solar Thermal Advanced Research Center
[DE84-005480] 14 p2172 N84-24010
United States Air Force summer faculty research program, 1983. Program management report
[AD-A139366] 14 p2245 N84-24484
United States Air Force summer faculty research program, 1983, volume 1
[AD-A139403] 14 p2245 N84-24485
United States Air Force summer faculty research program, 1983, volume 2
[AD-A139404] 14 p2246 N84-24486
Overview of DOE-sponsored heat pump research
[DE84-007561] 15 p2333 N84-25011
The process of technological innovation: Reviewing the literature
16 p2566 N84-26466
Technology Base Research Project for Electrochemical Energy Storage
[DE84-013877] 22 p3619 N84-32930

RESEARCH VEHICLES
NT UNDERWATER RESEARCH LABORATORIES
Status of the development of a long-life engine coolant system
[AD-A143098] 21 p3413 N84-31642
Marine Seismic System (MSS) deployment. Phase 5: An investigation of techniques and deployment scenarios for installation of triaxial seismometer in a borehole in the deep ocean
[AD-A142873] 21 p3444 N84-31850
Advanced onboard storage concepts for natural gas-fueled automotive vehicles
[NASA-CR-174655] 23 p3790 N84-34036

RESERVES
The geology and petroleum resources of basins in the Asian Arctic and offshore east Greenland
[DE84-012114] 21 p3431 N84-31772

RESERVOIRS
Stream-water storage in the ocean using an impermeable membrane
[PB83-248369] 04 p0517 N84-13394
Water resources data for New Jersey, water year 1982. Volume 2: Delaware River Basin and tributaries to Delaware Bay
[PB84-119734] 09 p1338 N84-18737
Water resources data for Illinois, water year 1982. Volume 2: Illinois River Basin
[PB84-120120] 09 p1338 N84-18739
Water resources data for Idaho, water year 1982. Volume 1: Great Basin and Snake River Basin above King Hill
[PB84-118470] 09 p1338 N84-18740
Water resources data for Idaho, water year 1982. Volume 2: Upper Columbia River Basin and Snake River Basin below King Hill
[PB84-118488] 09 p1338 N84-18741
Water resources data for Indiana, water year 1982
[PB84-114990] 09 p1339 N84-18747
Water resources data for Montana, water year 1982. Volume 1: Hudson Bay Basin, Missouri River Basin
[PB84-117506] 09 p1339 N84-18749
Water resources data for Virginia, water year 1982
[PB84-118553] 09 p1340 N84-18751
Water resources data for Montana, water year 1982. Volume 2: Columbia River Basin
[PB84-118561] 09 p1340 N84-18752
Water resources data for New York, water year 1982. Volume 3: Western New York
[PB84-119544] 10 p1527 N84-20003
Research highlights from the Earth Sciences Division
[DE84-003916] 12 p1828 N84-21916
Faults and nature of seismic discontinuities in continental crust section
18 p2660 N84-28161
Environmental and water quality operational studies. Riverine influences on the water quality characteristics of West Point Lake
[AD-A141328] 18 p2877 N84-28271
Oscillations of a reservoir with a fluid on the free surface of which a membrane is located
[AD-A142127] 19 p3024 N84-29179
Using chemically reactive tracers to determine temperature characteristics of geothermal reservoirs
[DE84-011373] 20 p3242 N84-30580
Environmental and water quality operational studies. Fluorometric techniques for tracing reservoir inflows
[AD-A143135] 21 p3436 N84-31801
Tricresyl phosphate retention by bearing retainer and reservoir materials
[AD-A143842] 23 p3724 N84-33596

RESIDENTIAL AREAS
Classification and area estimation of land covers in Kansas using ground-gathered and LANDSAT digital data
[E84-10068] 06 p0665 N84-15837
Civilian residential fire fatality rates: Six high-rate states versus six low-rate states
[PB84-102615] 08 p1142 N84-17427
The use of photointerpretation for socio-economic characterization of urban population
[INPE-3067-PRE/484] 16 p2561 N84-26428

RESIDENTIAL ENERGY
Passive-solar performance: Summary of 1981-1982 class B results
[DE83-009407] 03 p0405 N84-12650
Empirical validation of computer models for passive-solar residences
[DE83-016887] 03 p0457 N84-13005
Development of a residential gas-absorption heat pump
[DE83-017218] 04 p0536 N84-13526
County-level wind resource estimates for DOE Region 5
[DE84-000009] 04 p0566 N84-13744
Measures of nonlinearity for segmented regression models
[AD-A132838] 05 p0740 N84-14864
The value of residential photovoltaic systems: A comprehensive assessment
[NASA-CR-173205] 07 p1025 N84-16643
Using the earth to heat and cool homes
[DE84-007102] 12 p1816 N84-21840
Technical and economic feasibility of horizontal, multiple shallow-well, and deep-well ground coupling for residential heat pump applications
[DE84-006244] 12 p1817 N84-21842
Air- versus liquid-based solar-energy systems: A comparison of measured thermal performances
[ANL-83-45] 12 p1838 N84-21978
Active Program Research Requirements (APRR), volume 1
[DE84-002141] 12 p1921 N84-22513
Solar and internal gain adjustments in calculation of energy conservation savings
[DE83-011983] 16 p2512 N84-26119
Cooling-load implications for residential passive solar heating systems 16 p2513 N84-26126
Systems integration of photovoltaic and passive solar
16 p2513 N84-26129
Energy and peak power saved by passively cooled residences 16 p2513 N84-26130
Passive solar manufactured buildings development and analyses 16 p2514 N84-26137
International energy agency solar heating and cooling programme: Task 8, passive and hybrid solar low energy buildings 16 p2515 N84-26140
Whole building performance monitoring: Measurements on baseline buildings 16 p2515 N84-26145
High efficiency heat pump using ground heat source
[DE84-006385] 22 p3594 N84-32761
Documentation of data processing procedures and extension of Class B data analysis
[SERI/STR-254-2065] 23 p3815 N84-34189

RESIDUAL STRESS
Proceedings of the 8th Annual Mechanics of Composites Review
[AD-A130750] 01 p0031 N84-10196
A Fourier transform technique which measures phase delays between ultrasonic impulses with sufficient accuracy for the determination of residual stresses in metals
[AERE-R-1093] 01 p0047 N84-10306
Simulation of closure: Effects on crack detection probability and stress distributions
[DE83-009309] 01 p0097 N84-10633

The yield stress and strain-rate sensitivity of nickel over a wide temperature range
[DE83-016913] 02 p0197 N84-11279
Welding deformations and residual stresses due to circumferential welding of cylindrical shells and hemispherical end plates
[DRIC-T-6968] 04 p0547 N84-13602
Research on composite materials for structural design
[AD-A134059] 05 p0645 N84-14242
Acoustoelasticity: Scanning with shear waves 05 p0695 N84-14580
Welding deformations and residual stresses due to circumferential welding of cylindrical shells and hemispherical end plates
[BLL-DRIC-T-6968-(3623.66)] 06 p0851 N84-15549
Nondestructive measurement of bulk residual stresses
[AD-A134600] 07 p1013 N84-16573
Stresses in cylindrical shells with nozzles subjected to external loadings and internal pressure
[CRIF-MT-156] 07 p1017 N84-16597
Hygrothermal effects in continuous fibre reinforced composites. Part 4: Mechanical properties 2 - fatigue and time-dependent properties
[AD-A135766] 09 p1276 N84-18333
Transducer for measuring the internal forces in the columns of a frame-wall reinforced concrete structure
[PB84-119494] 09 p1319 N84-18617
On the effects of post cure cool down and environmental conditioning on residual stresses in composite laminates 12 p1788 N84-21663
A review study of nondestructive test techniques for residual stresses in aircraft transparencies
[AD-A138930] 13 p1930 N84-22555
Statistical fatigue and residual strength degradation model for glass polyester laminates 15 p2309 N84-24857
Measurement of residual strains and stresses in transparent materials
[AD-P003209] 17 p2593 N84-26822
Residual stresses in long double-layer cylinder under nonsteady cooling 17 p2651 N84-26953
The measurement of residual stress in textured steel using an ultrasonic velocity combination technique
[AERE-R-11115] 18 p2854 N84-28123
The effect of creep on the residual stresses generated during silicon sheet growth 18 p2938 N84-28634
Control of thermal stress in dendritic web growth 18 p2938 N84-28636
Residual curing stress of carbon-resin composites
[ONERA-RT-6/3521-M] 20 p3147 N84-29980
Residual stress measurements using shear-horizontal waves from electromagnetic acoustic transducers
[PB84-190636] 20 p3176 N84-30171
The effects of internal stress and phase transformations on fracture 21 p3417 N84-31671
The hole drilling method for residual stress distribution measurement
[CETIM-100730] 21 p3424 N84-31720
Trace elements and residual elements in superalloys 23 p3705 N84-33487
Stress studies in EFG
[NASA-CR-173960] 23 p3787 N84-34018
Study of specifics of formation of stress and strain in making circular welded joints in aluminum alloy envelopes 24 p3876 N84-34560

RESIDUES
Elastomeric impression materials and cleaning systems for residue removal
[RFP-3442] 06 p0814 N84-15296
Applications of photoacoustic techniques to the study of jet fuel residue
[NASA-CR-173322] 09 p1290 N84-18420
A fundamental approach to the sticking of insect residues to aircraft wings
[NASA-CR-173721] 18 p2791 N84-27717
Trace elements and residual elements in superalloys 23 p3705 N84-33487

RESIN BONDING
Mini-seminar on Joining Techniques
[CSIR-TSD-0005/82] 09 p1291 N84-18431

RESIN MATRIX COMPOSITES
NT GRAPHITE-EPOXY COMPOSITES
Curing of graphite/epoxy composites 01 p0030 N84-10186
NDE techniques for composite laminates 01 p0033 N84-10205
Resin selection criteria for tough composite structures
[NASA-TM-83449] 01 p0048 N84-10310
Resin composition
[NASA-TM-77457] 10 p1451 N84-19477
High performance composites and adhesives for V/STOL aircraft
[AD-A139168] 14 p2119 N84-23702
The nonlinear viscoelastic response of resin matrix composite laminates
[NASA-CR-3772] 17 p2617 N84-26750
Free edge strain concentrations in real composite laminates: Experimental-theoretical correlation
[NASA-CR-173818] 19 p2986 N84-28919
Comparison of toughened composite laminates using NASA standard damage tolerance tests 20 p3145 N84-29972
Synthesis and toughness properties of resins and composites 20 p3146 N84-29973

RESINS
NT ACRYLIC RESINS
NT ADDITION RESINS
NT EPOXY RESINS
NT FURAN RESINS
NT ION EXCHANGE RESINS
NT KEVLAR (TRADEMARK)
NT NYLON (TRADEMARK)
NT PHENOLIC EPOXY RESINS
NT PHENOLIC RESINS
NT POLYAMIDE RESINS
NT POLYESTER RESINS
NT POLYETHER RESINS
NT POLYIMIDE RESINS
NT POLYMETHYL METHACRYLATE
NT POLYURETHANE RESINS
NT SYNTHETIC RESINS
NT THERMOPLASTIC FILMS
NT THERMOPLASTIC RESINS
NT THERMOSETTING RESINS
NT VINYL COPOLYMERS
A polytetrafluorethylene insulated cable for high temperature oxygen aerospace applications 11 p1723 N84-21238
Fire and heat resistant laminating resins based on maleimido substituted aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-1] 13 p1953 N84-22697
Application of optical methods, including optical interference, to measure the dimensional stability of resins, resin based adhesives and resin based composites
[AD-A140297] 16 p2472 N84-25843
Synthesis and toughness properties of resins and composites 20 p3146 N84-29973
Review of the strength of brittle rock materials 23 p3722 N84-33586
Some aspects of the deformation and brittle destruction of elastooptic materials 23 p3722 N84-33587

RESISTANCE
New silicon rubber cable insulation promises circuit integrity, in flaming environment 11 p1723 N84-21237
Development of flame retardant, low aggressivity cables 11 p1723 N84-21239
Low-smoke, halogenfree ship-offshore/onshore cables with improved flame retardance and fire resistance 11 p1723 N84-21240
USSR Report: Life sciences, biomedical and behavioral sciences
[JPRS-UBB-84-003] 12 p1864 N84-22145
Acoustic ground impedance meter
[NASA-CASE-LAR-12995-1] 13 p1993 N84-22933
Upset weld study for joining 304L stainless steel tubes
[DE84-011507] 20 p3198 N84-30313
The effect of injection molding processing parameters on the environmental stress cracking resistance of polycarbonate moldings
[MRL-R-924] 20 p3201 N84-30332
Energy-resolving carbon resistance probes for plasma edge characterization
[DE84-012235] 20 p3306 N84-30997

RESISTANCE COEFFICIENTS
U RESISTANCE

RESISTANCE HEATING
Acceleration of runaway electrons and Joule heating in solar flares
[NASA-TM-86112] 15 p2428 N84-25583

RESISTANCE THERMOMETERS
Evaluation tests of platinum resistance thermometers for a cryogenic wind tunnel application
[NASA-TM-85803] 14 p2148 N84-23865
Intercomparison of zinc freezing point cells and standard platinum resistance thermometers
[DE84-007440] 14 p2149 N84-23875
The nicrosil versus nisil type N thermocouple: A commercial reality
[MRL-R-903] 16 p2495 N84-26005
Techniques in high-temperature resistance thermometry. 1: Construction of the NBS-design high temperature platinum resistance thermometer. 2: Toroidal resistor for high-temperature platinum resistance thermometers
[PB84-164110] 17 p2672 N84-27029

RESISTIVITY
U ELECTRICAL RESISTIVITY

RESISTOJET ENGINES
Resistojet propulsion for large spacecraft systems
[NASA-TM-83489] 02 p0186 N84-11206
Calculation of vaporization rates assuming various rate determining steps: Application to the resistojet
[NASA-TM-83757] 21 p3355 N84-31283

RESISTOJETS
U RESISTOJET ENGINES

RESISTORS
NT THERMISTORS
Derated application of parts for (Electronic System Division) systems development
[AD-A133880] 05 p0674 N84-14429
MM&T-Ceramic metal substrates for hybrid electronics: Handbook
[AD-A140689] 17 p2623 N84-26790
Techniques in high-temperature resistance thermometry. 1: Construction of the NBS-design high temperature platinum resistance thermometer. 2: Toroidal resistor for high-temperature platinum resistance thermometers
[PB84-164110] 17 p2672 N84-27029
Alternative power supply and dump resistor connections for similar, mutually coupled, superconducting coils
[DE84-012602] 21 p3393 N84-31534
Research pressure instrumentation for NASA Space Shuttle main engine, modification no. 5
[NASA-CR-171122] 21 p3404 N84-31594
Measurement amplifier
[NASA-CASE-MFS-25668-1] 22 p3581 N84-32680
Research pressure instrumentation for NASA Space Shuttle main engine, modification no. 6
[NASA-CR-171126] 22 p3597 N84-32780

RESOLUTION
NT ANGULAR RESOLUTION
NT HIGH RESOLUTION
NT IMAGE RESOLUTION
NT RADAR RESOLUTION
NT RADIOMETRIC RESOLUTION
NT SPATIAL RESOLUTION
NT SPECTRAL RESOLUTION
Proceedings of the Seventh International Conference on High Voltage Electron Microscopy
[DE83-016323] 04 p0538 N84-13540
Linearity and resolution of photodiodes
[DE84-002761] 07 p0998 N84-16470
Reflection acoustic microscopy for Micro-NDE
[AD-A136321] 09 p1327 N84-18665
Electron microscopy at atomic resolution
[DE84-005546] 11 p1730 N84-21268
Measurement of the energy resolution and related properties of an SCG1-C scintillation glass shower counter array for 1 to 25 GeV positrons
[DE84-007248] 14 p2148 N84-23871
Developments in open tubular liquid chromatography
[DE84-010585] 18 p2812 N84-27853
Multivariate curve resolution in liquid chromatography
[DE84-013797] 22 p3549 N84-32486

RESOLVERS
Magnetic heading reference
[NASA-CASE-LAR-12638-1] 05 p0629 N84-14132

RESOLVING POWER
U RESOLUTION

RESONANCE
NT CYCLOTRON RESONANCE
NT ELECTRON PARAMAGNETIC RESONANCE
NT FERROMAGNETIC RESONANCE
NT MAGNETIC RESONANCE
NT MICROWAVE RESONANCE
NT NUCLEAR MAGNETIC RESONANCE
NT NUCLEAR QUADRUPOLE RESONANCE
NT OPTICAL RESONANCE
NT PLASMA RESONANCE
NT PROTON MAGNETIC RESONANCE
NT RESONANT VIBRATION
NT SPIN RESONANCE
Aeromechanical stability of a hingeless rotor in hover and forward flight: Analysis and wind tunnel tests
[NASA-TM-85883] 01 p0094 N84-10610
Acoustic resonance in heat-exchanger tube banks
[DE83-011413] 02 p0219 N84-11436
Selective laser ionization for mass-spectral isotopic analysis
[DE83-017303] 03 p0381 N84-12483
Laser-plasma interaction at 10.6 microns
[DE84-001038] 04 p0541 N84-13560
An analysis of acoustic and seismic wave resonances 04 p0561 N84-13701
Resonance-resonance coupling in dissociative electron attachment
[DE84-001767] 04 p0602 N84-13972
Simultaneous electron capture and excitation in ion-atom collisions
[DE83-005799] 06 p0910 N84-15907
Resonance ionization mass spectroscopy at Los Alamos National Laboratory
[DE84-001705] 07 p0972 N84-16297

Resonance between channeled particle wavelengths and periodicity of strained-layer superlattices
[DE84-002173] 07 p1081 N84-17032
Nonlinear resonance
[AD-A135117] 08 p1218 N84-17950
Acoustic exploration of ocean floor properties based on the ringing of sediment layer resonances
[AD-A138245] 12 p1899 N84-22367
Millimeter wave attenuation in moist air: Laboratory measurements and analysis
[AD-A139502] 14 p2140 N84-23632
Elastic wave scattering from cylindrical cavities and solid inclusions analyzed by the resonance method
[AD-P002971] 14 p2201 N84-24207
Manifestation of the Fermi resonance in surface polariton spectra
[NASA-TM-77386] 14 p2222 N84-24330
Optical nonlinearity and bistability due to the biexciton two-photon resonance in CuCl 14 p2239 N84-24441
Resonant scattering of waves in random particulate composites 15 p2310 N84-24861
Shape resonances in molecular fields
[DE84-009206] 15 p2406 N84-25443
Bistatic radar cross sections of horizontally oriented chaff
[AD-A140903] 17 p2654 N84-26975
High pressure electron resonance studies of electronic, magnetic, and structural phase transitions
[DE84-008814] 18 p2941 N84-28653
Width of nonlinear resonance
[DE84-009662] 19 p3102 N84-29706
Stability of equilibrium in problems with double resonance 19 p3117 N84-29809
Formal solutions in a double resonant problem 19 p3118 N84-29813
Orbital evolution of the Galilean satellites: The conservative model 19 p3120 N84-29830
Reactive resonance and angular distributions in the rotating linear model
[DE84-011354] 20 p3295 N84-30919
Conceptual basis of resonance ionization spectroscopy
[DE84-011662] 21 p3360 N84-31318
Resonance ionization spectroscopy measurement of the vapor pressure of several molecular species
[DE84-010656] 21 p3409 N84-31624
Parametric excitation of transverse acoustic slot waves in solids by means of microwave electric field 21 p3478 N84-32045
Resonances in electron-molecule scattering and photoionization
[DE84-012660] 21 p3494 N84-32139
Highly sensitive high resolution Raman spectroscopy using resonant ionization methods
[DE84-012240] 22 p3548 N84-32460
Hover test of a full-scale hingeless rotor
[NASA-TM-85990] 23 p3692 N84-33401
Approximate methods for obtaining the complex natural electromagnetic oscillations of an object
[AD-A143913] 23 p3821 N84-34229

RESONANCE FLUORESCENCE
Resonance fluorescence of many interacting adatoms at a metal surface
[AD-A129866] 01 p0036 N84-10239
Resonance fluorescence of a two-level atom near a metal surface
[AD-A130277] 01 p0141 N84-10928
Frequency stabilization of carbon dioxide lasers
[FOA-C-30328-E1] 02 p0228 N84-11496
Resonance fluorescence and photon trapping of two atoms on a metallic surface
[AD-A134512] 07 p1072 N84-16964
A detailed consideration of resonance radiation trapping in the argon inductively coupled plasma
[AD-A136633] 09 p1391 N84-19065
Resonance fluorescence of a two-level atom near a metal surface. 2: Case of a strong driving field
[AD-A138275] 12 p1914 N84-22469
A detailed consideration of resonance radiation trapping in the argon inductively coupled plasma
[AD-A139369] 14 p2222 N84-24334
Evolution of structure in the PLACES barium clouds
[DE84-010996] 20 p3242 N84-30583
Combustion chemistry of vibrationally excited oxygen
[AD-A143791] 23 p3714 N84-33540

RESONANCE LINES
Wavelength measurement of X-ray lines from He-like ions 11 p1736 N84-21326
Forced stationary solutions in a barotropic channel: Multiple equilibria and theory of nonlinear resonance 12 p1856 N84-22089
Partial frequency redistribution in subordinate lines 15 p2421 N84-25543
Analysis of MgII lines in algol 15 p2422 N84-25547

RESONANCE PROBES
NT CYCLOTRON RESONANCE DEVICES

RESONANCE RADIATION
U RESONANCE FLUORESCENCE

RESONANCE SCATTERING
Raman studies of CuTCNQ: Resonance Raman spectral observations and calculations for TCNQ ion-radicals
[AD-A130570] 01 p0037 N84-10231
Radar resonance reflection from sets of plane dielectric layers
[AD-A128680] 01 p0062 N84-10406
Radar waveform synthesis for target identification
[AD-A130363] 01 p0063 N84-10412
Laser-induced neutralization and negative-ion formation in surface scattering
[AD-A135907] 09 p1322 N84-18641
Bibliography and abstracts of papers pertaining to applied mathematics
[AD-A137823] 11 p1750 N84-21420
Investigation of non-linear estimation of natural resonances in target identification
[AD-A139027] 13 p1984 N84-22878

RESONANT CAVITIES
U CAVITY RESONATORS

RESONANT FREQUENCIES
All-purpose bidirectional four-quadrant controller 01 p0011 N84-10070
Blade loss transient dynamics analysis with flexible bladed disk
[NASA-CR-168176] 04 p0486 N84-13193
An improved finite-difference analysis of uncoupled vibrations of tapered cantilever beams
[NASA-TM-83495] 04 p0548 N84-13610
Radio-frequency detonation hazards: Multiple-transmission safety assessment of a detonator loop that may be resonant
[BBC-RD-1983/11] 05 p0666 N84-14380
Study of vibration resonance frequencies in rats 07 p1046 N84-16784
Vibrating-chamber levitation systems
[NASA-CASE-NPO-16142-1] 07 p1070 N84-16948
The 25 kW resonant dc/dc power converter
[NASA-CR-168273] 08 p1149 N84-17481
Interfacial tension between water and selected superheated liquids by quadrupole oscillations of drops
[AD-A136996] 10 p1455 N84-19502
Measurement of structural damping using the random decrement technique 10 p1514 N84-19915
Analysis of rectangular microstrip antennas
[NASA-TP-2276] 11 p1642 N84-20735
Testing techniques involved with the development of high shock acceleration sensors
[AD-P002693] 11 p1660 N84-20828
Laboratory measurements of subsynchronous resonance
[RL-8845] 11 p1667 N84-20677
Low noise tuned amplifier
[NASA-CASE-GSC-12567-1] 13 p1985 N84-22887
Acoustic ground impedance meter
[NASA-CASE-LAR-12995-1] 13 p1993 N84-22933
Effects of transverse loading on the thickness shear resonance frequencies in crystal plates 13 p2003 N84-22904
The Laplacian resonance and tidal dissipation 13 p2073 N84-23434
Prediction of resonance frequencies for ventilated wall wind tunnels 14 p2097 N84-23580
Scattering properties of partly screened dielectric sphere
[REPT-218] 17 p2662 N84-26963
Gravitational antenna with non tuned resonant transducer
[IFSI-84-1] 18 p2831 N84-27972
Resonant parametric transducer
[IFSI-83-10] 18 p2835 N84-27995
An investigation of resonant optoacoustic cells
[PB83-251637] 18 p2929 N84-28572
The temperature sensitivity of doubly rotated quartz resonators
[AD-A142537] 20 p3178 N84-30186
Lumped-circuit model of four vane RFQ resonator
[DE84-011343] 21 p3387 N84-31497
Temperature derivatives of elastic stiffnesses and frequency-temperature behavior of quartz crystal plates 21 p3418 N84-31675
A study of the high frequency limitations of series resonant converters
[NASA-CR-173868] 22 p3581 N84-32678
Experimental investigation of certain beam transport issues in a pulsed transmission line linear accelerator
[DE84-011191] 22 p3654 N84-33164

RESONANT VIBRATION
Split-Stirling, linear-resonant, cryogenic refrigerators for detector cooling 06 p0819 N84-15342
Improved finite-difference vibration analysis of pretwisted, tapered beams
[NASA-TM-83549] 07 p1015 N84-16588
Gravity enhanced acoustic levitation method and apparatus
[NASA-CASE-NPO-16147-1] 07 p1070 N84-16949
The Shock and Vibration Digest, volume 15, no. 7
[AD-A132576] 10 p1505 N84-19845
Industrial noise control: The past three years 10 p1505 N84-19846
Nonstationary resonance oscillations 10 p1506 N84-19848
Electronic damping of a large optical bench 10 p1514 N84-19914
System for torque control of unbalanced rotor during passage through resonance 13 p1973 N84-22802
Vehicle dynamic analysis with flexible components
[AD-P002939] 14 p2197 N84-24179
Resonance in the water circuit of a cooling tower
[S/T-REPT-VOL-1-NO-2] 20 p3188 N84-30254
Structural analysis of the support system for a large compressor driven by a synchronous electric motor 22 p3610 N84-32873

RESONATORS
NT CAVITY RESONATORS
NT HELMHOLTZ RESONATORS
NT OPTICAL RESONATORS
Analysis of some filtering and data analysis methods for gravitational wave antennas with resonant transducers
[IFSI-82-11] 03 p0362 N84-12359
Data analysis for gravitational wave antenna with resonant transducers
[IFSI-82-12] 03 p0363 N84-12360
Sputtered C-axis inclined piezoelectric films and shear-wave resonators
[DE83-017253] 03 p0455 N84-12997
Vibration resistant quartz crystal resonators
[AD-A132274] 04 p0526 N84-13459
Dielectric resonators for use in microwave and millimeter-wave GaAs circuits
[AD-A132881] 05 p0675 N84-14440
Modification of point defects in quartz for device applications
[DE84-002611] 07 p1082 N84-17036
Monolithic ZnO SAW (Surface Acoustic Waves) structures
[AD-A135987] 09 p1309 N84-18557
Vibrations of doubly-rotated-cut quartz plates with monoclinic symmetry
[AD-A135948] 09 p1377 N84-18996
Characteristics of an integrated optics ring resonator
[AD-A135878] 09 p1389 N84-19069
Temperature effects of cement joints in ceramic-stack resonators
[AD-A137435] 10 p1486 N84-19716
Large enhancement of the Sagnac effect based on nonlinearly induced nonreciprocity
[AD-A137080] 10 p1579 N84-20344
Low temperature quartz crystal oscillator fast warm-up SAW oscillator
[AD-A138024] 12 p1811 N84-21806
Simulations of the dynamics of optical bistability with fluctuations 14 p2236 N84-24421
Theory of optical bistability in colinear degenerate four-wave mixing 14 p2238 N84-24434
Light-induced nonreciprocity: Directional optical bistability; spectroscopy of induced anisotropy; nonlinear Sagnac effect 14 p2241 N84-24452
Is a partially filled cylindrical resonator operating on the TE sub 011 mode desirable for the determination of permittivity?
[REPT-S-148] 15 p2320 N84-24928
Application of surface acoustic wave devices to radio telemetry
[NASA-CR-173597] 16 p2457 N84-25756
Concerning Q of a cylindrical dielectric resonator screened by a waveguide 17 p2631 N84-26832
Resonator insensitive to paraxial accelerations
[AD-D010998] 19 p3018 N84-29130
Narrow deviation voltage controlled crystal oscillator
[AD-D011033] 19 p3018 N84-29133
The temperature sensitivity of doubly rotated quartz resonators
[AD-A142537] 20 p3178 N84-30186
High-Q open resonator structures with sparse spectrum 20 p3288 N84-30676
Waveguide characteristics of resonators with arbitrary distribution of dielectric permittivity 21 p3380 N84-31451
Lumped-circuit model of four vane RFQ resonator
[DE84-011343] 21 p3387 N84-31497
Time-dependent oscillations in a CW HF chemical laser unstable resonator
[AD-A142966] 21 p3409 N84-31622

Microwave bandstop filters as dielectric resonators
[INPE-3055-PRE/475] 23 p3740 N84-33706
Piezoelectric shear wave resonator and method of making same
[DE84-014526] 23 p3751 N84-33780
A comparison of impedance measurement techniques in air
[AD-A143838] 23 p3821 N84-34232
Bulk acoustic resonator tracking filter
[AD-D011159] 23 p3821 N84-34233
Temperature compensation of surface transverse waves for stable oscillator applications
[AD-A144245] 24 p3894 N84-34660
Microwave discharge apparatus and method with dual function priming resonator
[AD-D011202] 24 p3899 N84-34689
Frequency synthesizer
[AD-D011203] 24 p3903 N84-34714

RESOURCE ALLOCATION
The effects of task structures, dynamics of difficulty changes, and strategic resource allocation training on time-sharing performance
[AD-A134112] 05 p0715 N84-14685
Advanced teleprocessing systems
[AD-A133525] 06 p0824 N84-15375
Federal Aviation Administration's system for prioritizing airport grants
[PB84-181650] 20 p3133 N84-29883
Solution and sensitivity analysis of RESDYN model 1a using SENSUMT
[AD-A142788] 21 p3515 N84-32267

RESOURCES
NT AQUIFERS
NT COAL
NT CRUDE OIL
NT EARTH RESOURCES
NT EXTRATERRESTRIAL RESOURCES
NT FORESTS
NT FOSSIL FUELS
NT GEOTHERMAL RESOURCES
NT GLACIERS
NT ICEBERGS
NT LAND ICE
NT MARINE RESOURCES
NT OIL FIELDS
NT RAIN FORESTS
NT SOLVENT REFINED COAL
NT TAR SANDS
NT THERMAL RESOURCES
NT UNDERWATER RESOURCES
NT WATER RESOURCES
Two-step industrial preparedness planning: Balancing funds and production capability
[AD-P002802] 13 p2058 N84-23348
Directory of Federal technology resources, 1984
[PB84-100015] 19 p3115 N84-29793

RESOURCES MANAGEMENT
NT FOREST MANAGEMENT
NT LAND MANAGEMENT
Successes, shortcomings in using production wastes as raw material 01 p0054 N84-10352
A study of Minnesota land and water resources using remote sensing
[E84-10023] 02 p0237 N84-11558
The forest resources of Puerto Rico, Forest Service resource bulletin
[PB83-249995] 04 p0556 N84-13685
Forest statistics for southeast Alabama counties, Forest Service resource bulletin
[PB83-250753] 04 p0556 N84-13666
Forest statistics for west central Alabama counties, Forest Service resource bulletin
[PB83-249961] 04 p0556 N84-13668
Appraisal of scientific resources for emergency management
[AD-A133285] 06 p0933 N84-16062
An inventory of state natural resources information systems — including Puerto Rico and the U.S. Virgin Islands
[E84-10072] 07 p1020 N84-16619
AgRISTARS: Agriculture and resources inventory surveys through aerospace remote sensing
[E84-10091] 10 p1522 N84-19962
Classification of the California Desert for geology-energy-mineral resource potential geostatistical classification
[PB84-100668] 10 p1538 N84-20078
Remote sensing training for Corps of Engineering personnel: The university training module concept
[NASA-CR-175204] 10 p1549 N84-20154
The limits of multiple resource theory: The role of task correlation/integration in optimal display formatting
[AD-A136892] 10 p1554 N84-20182
Scientific activity in hydrology, 1979-1982 13 p2005 N84-23010
Impact of corporate resource allocation decisions on national security objectives: Disynergism in aerospace industrial resource planning
[AD-P002801] 13 p2058 N84-23347
Improved management of support resources
[AD-P002808] 13 p2059 N84-23354
USSR report: Science and technology policy
[JPRS-UST-84-007] 13 p2065 N84-23391
Beyond the data base: Technology for information resource management
[AD-A138840] 13 p2067 N84-23402
State remote sensing (LANDSAT) programs catalog
[E84-10127] 14 p2168 N84-23985
Distributed and decentralized control in fully distributed processing systems
[AD-A140120] 15 p2418 N84-25520
Arctic Research and Policy Act of 1983
[GPO-171] 15 p2419 N84-25527
The management of atmospheric resources in food production
[INPE-3121-PRE/514] 16 p2528 N84-26231
US average wind power by season
[DE84-012214] 20 p3248 N84-30613
Resource contention, synchronization, and information structure in distributed systems
[AD-A143037] 21 p3518 N84-32287
Agriculture and water use: Present and future issues
[GPO-30-599] 22 p3614 N84-32897
Quantitative treatment of fuzzy relations in the process of allocating resources to R and D projects
[INPE-2761-PRE/336] 22 p3668 N84-33251

RESPIRATION
NT HIGH ALTITUDE BREATHING
NT PRESSURE BREATHING
The design and operation of systems for inhalation exposure of animals
[DE83-015388] 01 p0112 N84-10727
Measurement of lung function using the magnetometer system
[AD-A130841] 01 p0114 N84-10738
Efficiency of high-frequency ventilation as determined by nitrogen washouts: A model study
[AD-A131331] 02 p0265 N84-11745
Smoke inhalation injury 04 p0511 N84-13350
Human behavior 04 p0511 N84-13351
Studies of emotional instability in smoke from fires: Decrease of thinking powers and of memory in fire smoke 04 p0511 N84-13355
Status of research in progress at the Inhalation Toxicology Research Institute
[DE83-012610] 06 p0875 N84-15694
Dose conversion factors for inhaled radionuclides
[FOA-C-40184-A3] 06 p0890 N84-15786
Study of metabolic sequelae of using positive intrapulmonary pressure during exposure to accelerations 07 p1045 N84-16776
Cardiovascular and respiratory responses to muscular activity during immersion in water at different temperatures
[AD-A138894] 14 p2185 N84-24094
The toxicity of petroleum and shale JP5
[AD-A142670] 20 p3260 N84-30690

RESPIRATORS
Development of an electrically controllable gas flow valve for use in patient ventilators
[BMFT-FB-T-84-129] 23 p3757 N84-33819

RESPIRATORY DISEASES
Respiratory effects on population from low-level exposures to ozone
[PB83-246132] 04 p0573 N84-13774
Method of determining intensity of elimination of microorganisms from human upper respiratory tract 15 p2377 N84-25264

RESPIRATORY PHYSIOLOGY
Respiratory effects on population from low-level exposures to ozone
[PB83-246132] 04 p0573 N84-13774
Cardiac swimming and a traditional rehabilitation program of bike-walk-jog; a comparison of maximal oxygen consumption and strength 12 p1864 N84-22148
The influence of sleep state on ventilatory control in humans 17 p2746 N84-27435
Biofeedback regulation of pulmonary ventilation 18 p2897 N84-28378
Exchange of gases and physical work capacity in natives of different geographic regions 20 p3254 N84-30656
Link between indexes for mental work capacity and parameters in circulatory system before and after physical stress 21 p3455 N84-31925

RESPIRATORY RATE
Biofeedback regulation of pulmonary ventilation 18 p2897 N84-28378
Circadian pattern of simian functional parameters during hypokinesia and in the recovery period 20 p3253 N84-30650

RESPIRATORY SYSTEM
NT BRONCHI
NT LUNGS
Study of biological samples obtained from victims of MGM Grand Hotel fire 04 p0514 N84-13374
Respiratory tract closing volume and structure of total lung capacity during seven-day hypokinesia in head-down position 07 p1045 N84-16778
Method of determining intensity of elimination of microorganisms from human upper respiratory tract 15 p2377 N84-25264
Activity of respiratory system during laser irradiation of brain structures 17 p2742 N84-27409
The influence of sleep state on ventilatory control in humans 17 p2746 N84-27435
The influence of cardiorespiratory fitness on the decrement in maximal aerobic power at high altitude
[AD-A142218] 19 p3066 N84-29452

RESPONDERS
U TRANSPONDERS

RESPONSE BIAS
InP:Fe picosecond photoconductors
[DE83-015237] 02 p0215 N84-11410
The BJT-JFET: A novel merged device structure
[AD-A132373] 04 p0525 N84-13454

RESPONSE TIME (COMPUTERS)
Modelling algorithm execution time on processor arrays
[NASA-CR-172289] 08 p1211 N84-17899
The normal approximation and queue control for response times in a processor-shared computer system model
[AD-A139587] 14 p2210 N84-24283
Expanding the permanent file directory on the CDC (Control Data Corporation) NOS/BE (Network Operating System/Batch Environment) operating systems
[AD-A140005] 15 p2418 N84-25519

RESPONSES
NT DYNAMIC RESPONSE
NT HEMODYNAMIC RESPONSES
NT MODAL RESPONSE
NT PHYSIOLOGICAL RESPONSES
NT TRANSIENT RESPONSE
Status of research in progress at the Inhalation Toxicology Research Institute
[DE83-012610] 06 p0875 N84-15694
Neuronal adaptive mechanisms underlying intelligent information processing
[AD-A133694] 06 p0889 N84-15776
Experimental designs for quantal response models
[AD-A133416] 06 p0901 N84-15851
Efficient model-based sequential designs for sensitivity experiments
[AD-A134573] 07 p1064 N84-16899
Temporal aspects of eye movement when viewing multiple targets
[AD-A134853] 08 p1201 N84-17828
Comparison of the dichotomous and polychotomous quantal response models
[AD-A137938] 11 p1715 N84-21185
Bayesian models for response surfaces, 2: Estimating the response surface
[AD-A142768] 21 p3471 N84-32001
Bayesian models for response surfaces. 1: The equivalence of several models and their relationship to smoothing splines
[AD-A142843] 21 p3472 N84-32003
The effect of queueing disciplines on response times in distributed systems
[DE84-012639] 22 p3641 N84-33086
Analysis of reward functions in learning: Unconscious information processing: Noncognitive determinants of response strength
[AD-A144152] 24 p3937 N84-34920
The design of a quantal response experiment: An empirical approach
[AD-P003843] 24 p3939 N84-34931

REST
NT BED REST
Workload of personnel engaged in air defence 11 p1699 N84-21079

RESTORATION
Performance criteria for restoration coatings for porcelain enamel surfaces
[PB84-141787] 11 p1638 N84-20709
Availability of the DSN telemetry data system and its major elements, including the TWM assemblies 22 p3575 N84-32639
A study of DSN traveling wave maser system reliability 22 p3575 N84-32640

RESTRAINTS
U CONSTRAINTS

RETAINING
Retractable tie-down device
[AD-D011079] 21 p3413 N84-31643

RETARDANTS
NT FLAME RETARDANTS
RETARDING
Terrestrial whisker growth experiments which anticipate some special effects of a space station environment
[NASA-CR-175440] 11 p1627 N84-20647
RETARDING ION MASS SPECTROMETERS
U MASS SPECTROMETERS
RETENTION (PSYCHOLOGY)
What's domain skill? Frames in information seeking
[FOA-C-53014-H2] 15 p2417 N84-25515
Effects of appraisal salience on immediate and memory-based judgments
[AD-A140334] 16 p2538 N84-26295
Use of self assessment in estimating levels of skill retention
[AD-P003345] 18 p2911 N84-28465
Modification of current feedback strategies: A text synthesis approach
[AD-A142187] 19 p3068 N84-29463
Bilateral carotid ligation and effects of electromagnetic field on conditioned reflex retention and cerebral nucleic acid levels 20 p3258 N84-30677
The representation of part-whole information in memory
[PB84-180140] 20 p3263 N84-30701
RETINA
NT FOVEA
NT VISUAL PIGMENTS
Ultrastructural evaluation of the retina in retinopathy of prematurity and correlations with vitamin E therapy
[AD-A135929] 10 p1547 N84-20143
A study of low level laser retinal damage
[AD-A137664] 11 p1695 N84-21055
Animal models for the assessment of laser induced eye damage
[AD-P003293] 18 p2908 N84-28443
Laser retinal injury
[AD-A144187] 24 p3936 N84-34916
RETINAL ADAPTATION
NT DARK ADAPTATION
NT LIGHT ADAPTATION
RETINAL IMAGES
Spatiotemporal characteristics of visual localization
[AD-A133952] 06 p0888 N84-15770
Spatial localization in strabismic observers
[AD-A132748] 06 p0890 N84-15784
Eye movements and visual information processing
[AD-A140436] 16 p2538 N84-26296
RETIREMENT
Cost/risk analysis for disk retirement, volume 1
[AD-A141978] 20 p3131 N84-29681
RETORC (TORPEDOES)
U TORPEDOES
RETORT PROCESSING
Solar-heated oil shale retort
[NASA-CASE-NPO-16392-1] 22 p3616 N84-32912
RETRACTABLE EQUIPMENT
Retraction and lowering of the mirage undercarriage
[AD-A137791] 11 p1606 N84-20518
Retractable tie-down device
[AD-D011079] 21 p3413 N84-31643
RETRACTABLE LANDING GEAR
U LANDING GEAR
U RETRACTABLE EQUIPMENT
RETRAINING
A model of the shoulder girdle for use in rehabilitation 20 p3264 N84-30710
RETRIEVAL
NT DATA RETRIEVAL
NT INFORMATION RETRIEVAL
RETROFITTING
NT ACOUSTIC RETROFITTING
The 21st Symposium on Engineering Aspects of Magnetohydrodynamics
[DE83-014481] 02 p0296 N84-11943
A graphics subsystem retrofit design for the bladed-disk data acquisition system
[NASA-TM-83510] 03 p0418 N84-12730
Split-Stirling-cycle displacer linear-electric drive 06 p0820 N84-15343
NAHBE (Naval Academy Heat Balanced Engine) m151 retrofit evaluation
[AD-A133475] 06 p0853 N84-15559
RETROREFLECTORS
Evalution of retroreflective pavement markers for precision and nonprecision runways
[FAA-CT-82-164] 02 p0182 N84-11182
Sun/Moon capture evaluation
[AD-P003160] 17 p2588 N84-26591
RETURN BEAM VIDICONS
NT THERMICONS
REUSABLE HEAT SHIELDING
Space shuttle orbiter reusable surface insulation flight results 01 p0025 N84-10157
Lessons learned from the development and manufacture of ceramic reusable surface insulation materials for the space shuttle orbiters 01 p0025 N84-10158
Results of the AFRSI detailed-environment test of the 0.035-scale SSV pressure-loads model 84-0 in the Ames 11x11 ft. TWT and the Lewis 8x6 ft. and 10x10 ft. SWT (OA-310A, B, C), volume 2
[NASA-CR-167686] 21 p3351 N84-31260
Results of the AFRSI detailed-environment test of the 0.035-scale SSV pressure-loads model 84-0 in the Ames 11x11 ft. TWT and the Lewis 8x6 ft. and 10x10 ft. SWT (OA-310A, B, C), volume 1
[NASA-CR-167685] 21 p3352 N84-31261
Aerothermal loads analysis for high speed flow over a quilted surface configuration
[NASA-TM-86280] 21 p3399 N84-31560
Study of outgassing and decompoeition of Space Shuttle heat protection tiles, fillers and adhesive
[NASA-CR-173974] 24 p3860 N84-34465
REUSABLE SPACECRAFT
NT SPACE SHUTTLES
EURECA: An introduction to Europe's free-flying retrievable carrier
[ESA-BR-16] 09 p1272 N84-18308
Aerospace vehicle
[NASA-CASE-LAR-13155-1] 11 p1624 N84-20628
Future space transport
[NASA-TM-77554] 14 p2114 N84-23668
REUSE
Feasibility study of an automatic protein growth facility using the retrievable carrier — EURECA project
[MBB-URV-131(82)] 09 p1263 N84-18246
Reuse in the context of a transformation based methodology
[AD-A141514] 19 p2984 N84-28910
Materials Substitution and Recycling
[AGARD-CP-356] 23 p3702 N84-33465
Measures for materials conservation in aero-engine construction 23 p3702 N84-33468
Towards a cycle without loss: Cobalt in the aircraft industry 23 p3702 N84-33469
REVERBERATION
A reverberation room round robin on the determination of absorption coefficients
[NRC/CNR-TT-2079] 12 p1898 N84-22364
Measurements of the impulse response and reverberation underwater in the depressurized towing tank MARIN
[TPD-208.730/1] 12 p1900 N84-22374
Causes and prevention of systematic deviations from true values of absorption coefficients measured in reverberation rooms
[NRC/CNR-TT-2080] 15 p2403 N84-25423
High-frequency acoustic backscatter from the sea surface
[AD-A143536] 22 p3652 N84-33152
REVERSE FIELD PINCH
NT CYLINDRICAL PLASMAS
Recent results from the ZT-40M reversed-field pinch program
[DE83-014149] 01 p0151 N84-10993
Fluctuations in 3 Los Alamos experiments
[DE83-014158] 01 p0151 N84-10994
Advanced fusion concepts project summaries, FY 1983
[DE83-013973] 02 p0296 N84-11940
Recent results in the Los Alamos compact torus program
[DE83-014147] 03 p0446 N84-12930
Reversed-field pinch large aspect ratio equilibrium
[DE83-016771] 03 p0449 N84-12953
Study on diffusion of the vertical magnetic field in the toroidal stabilizing shell of the ZT-40M reversed-field-pinch device
[DE83-016353] 04 p0610 N84-14023
Sustained self-reversal in the reversed field pinch
[DE84-001559] 06 p0921 N84-15990
Precisely aligned internal magnetic probes for the reversed-field pinch experiment, ZT-40
[DE84-003704] 08 p1233 N84-18058
Anomalous resistivity at the field null of the FRC: A quasi-linear expression based upon flute-type modes
[DE84-003556] 09 p1393 N84-19094
Plasma engineering design of a Compact Reversed-Field Pinch Reactor (CRFPR)
[DE84-004334] 10 p1586 N84-20394
Electrical design of a high current density air-core reversed-field pinch ZTP
[DE84-004321] 10 p1586 N84-20395
Poloidal field system design for the ZT-H reversed field pinch experiment
[DE84-004328] 10 p1586 N84-20396
Stable Alfven wave dynamo action in the reversed field pinch
[DE84-004986] 10 p1586 N84-20397
Toroidal magnetic field system for 2-MA reversed-field pinch experiment
[DE84-004322] 10 p1586 N84-20399
Parameters of a possible FRC adiabatic compression experiment
[DE84-007487] 14 p2230 N84-24371
Relativistic correlation theory of atomic structures
[DE84-006745] 14 p2230 N84-24372
Translation of field-reverse configurations in the FRX C/T experiment
[DE84-007489] 14 p2230 N84-24376
Coaxial slow source: A quasi-static FRC formation concept
[DE84-007476] 14 p2230 N84-24377
Reversed-field pinch dynamics and transport studies
[DE84-009054] 15 p2411 N84-25472
Inappropriateness of the finite Larmor radius model for the tilting mode in field reversed configurations
[DE84-007467] 15 p2411 N84-25473
Sustainment dynamo reexamined: Nonlocal electrical conductivity of plasma in a stochastic magnetic field
[DE84-007485] 15 p2412 N84-25478
Interaction of the neutral deuterium flux with a field-reversed configuration
[DE84-007488] 16 p2559 N84-26415
Nonlinear interaction of tearing modes: A comparison between the Tokamak and the reversed field pinch configurations
[DE84-010582] 18 p2934 N84-28606
Role of magnetic reconnection phenomena in the reversed-field pinch
[DE84-007470] 19 p3108 N84-29748
DDRFP transport code
[DE84-008573] 19 p3109 N84-29753
Internal magnetic field measurements in a translating field-reversed configuration
[DE84-010054] 20 p3284 N84-30854
Steady state compact toroidal plasma production
[DE84-011090] 20 p3303 N84-30977
Thermal instabilities in the edge region of reversed-field pinches
[DE84-013661] 22 p3659 N84-33196
Observations of ramped current operation in ZT-40M
[DE84-015076] 23 p3829 N84-34286
REVERSE OSMOSIS
Center for the transfer of desalination technology
[PB83-223057] 01 p0039 N84-10246
Novel composite membranes
[PB83-243170] 03 p0351 N84-12284
Temperature-resistant elements for reverse osmosis treatment of hot process waste
[DE84-005190] 10 p1456 N84-19507
Agricultural waste water reverse osmosis pretreatment
[PB84-153543] 17 p2725 N84-27347
Method for the preparation of thin-skinned asymmetric reverse osmosis membranes and products thereof
[NASA-CASE-ARC-11359-1] 18 p2894 N84-28361
REVERSE TIME
U REACTION TIME
REVERSED FLOW
Reverse combustion along constant geometry fissures in heterogeneous fuels 04 p0492 N84-13232
Description of the ACCESS data acquisition system
[DE84-005758] 12 p1919 N84-22506
Design of a combustion chambers with reverse flow for small gas turbines 15 p2290 N84-24742
REVIEWING
The Shock and Vibration Digest, volume 16, no. 3
[AD-A139707] 13 p2000 N84-22976
REVISIONS
Preliminary designs for modifications to the X-ray source and beam monitor of the Marshall Space Flight Center's X-ray Calibration Facility 06 p0928 N84-16032
Evaluation of Chem-Crete high strength modified asphalt concentrate
[PB84-105089] 08 p1172 N84-17636
Recent modifications and calibration of the Langley low-turbulence pressure tunnel
[NASA-TP-2326] 18 p2785 N84-27675
On the equivalence of logical databases
[AD-A141541] 19 p3085 N84-29579
REVOLUTION (MOTION)
U REVOLVING
REVOLVING
Brushless self-excited type three-phase synchronous motor driven by GTO inverter 07 p0983 N84-16366
REYNOLDS EQUATION
The present calculation method of adhering layers on aircraft wings
[AD-A137585] 11 p1602 N84-20496
Grid flexibility and patching techniques 11 p1610 N84-20540
REYNOLDS LAW
U REYNOLDS EQUATION

REYNOLDS NUMBER
An experimental documentation of trailing-edge flows at high Reynolds number
[NASA-TM-84375] 01 p0076 N84-10498
Generalized algebraic relation for predicting developing curved-channel flow with a k-epsilon model of turbulence
[DE83-009946] 01 p0080 N84-10520
Reynolds number tests of an NPL 9510 airfoil in the Langley 0.3-meter transonic cryogenic tunnel
[NASA-TM-85663] 02 p0173 N84-11141
Experiments on mixing and combustion with low heat release in a turbulent shear flow
04 p0531 N84-13489
On the relationship between transitional and fully turbulent shear flow
[AD-A133808] 05 p0680 N84-14469
Global pressure relaxation procedure for laminar and turbulent incompressible flows with strong interaction and separation 05 p0683 N84-14490
Computational and experimental study of trailing vortices 06 p0779 N84-15103
Design, construction, and use of a high-resolution, two-component LDA 06 p0833 N84-15419
Transonic cryogenic test section for the Goettingen tube facility
[NASA-TM-77050] 07 p0959 N84-16219
Report of tests of a compressor configuration of DCA blading
[AD-A133350] 07 p1002 N84-16501
Hot wire in low Reynolds number flow
08 p1237 N84-18087
Tests of a NACA 65(sub 1)-213 airfoil in the NASA Langley 0.3-meter transonic cryogenic tunnel
[NASA-TM-85732] 10 p1420 N84-19287
Steady viscous flow past a circular cylinder
10 p1560 N84-20223
A computational method for predicting the effects of varying Reynolds number and dynamic pressure on flexible wings at transonic speeds 12 p1764 N84-21508
Combustion performance of a vitiated air heater for a freejet test facility 13 p1952 N84-22691
High Reynolds number tests of the cast 10-2/DOA2 transonic airfoil at ambient and cryogenic temperature conditions 14 p2096 N84-23575
Use of a small scale wind tunnel and model shop at Aeronautica Macchi as an industrial tool
14 p2097 N84-23585
Half-model testing in the NLR high speed wind tunnel HST: Its technique and application
14 p2098 N84-23586
Design of advanced technology maneuvering aircraft models for the National Transonic Facility
14 p2098 N84-23590
Hydrodynamic interactions between particles in low-Reynolds-number flow: A modular approach
[AD-A139269] 14 p2146 N84-23859
High Reynolds number solutions for incompressible viscous flow using the reduced basis technique
15 p2317 N84-24905
Fluid forces on a rigid cylinder in turbulent crossflow
[DE84-006364] 15 p2333 N84-25012
Kolmogorov-style argument for the decaying homogeneous MHD turbulence
[IPPJ-677] 20 p3301 N84-30963
A review of some Reynolds number effects related to bodies at high angles of attack
[NASA-CR-3809] 21 p3325 N84-31097
Report of tests of a compressor configuration of CD (Controlled Diffusion) blading
[AD-A143499] 22 p3604 N84-32832
Environment and receptivity 23 p3748 N84-33760
Cryogenic wind tunnel technology. A way to measurement at higher Reynolds numbers
[NASA-TM-77481] 24 p3857 N84-34451

REYNOLDS STRESS
Generalized algebraic relation for predicting developing curved-channel flow with a k-epsilon model of turbulence
[DE83-009946] 01 p0080 N84-10520
The influence of combustion on Reynolds stress in a strongly heated turbulent boundary layer
[DE83-015524] 02 p0220 N84-11444
Design, construction, and use of a high-resolution, two-component LDA 06 p0833 N84-15419
Experimental investigation of turbulent flow in the inlet region of an eccentric annulus
[KFK-3573] 07 p1004 N84-16511
A tensor constitutive equation for turbulent flow
15 p2314 N84-24888

RF-8 AIRCRAFT
U F-8 AIRCRAFT

RH-2 HELICOPTER
U UH-1 HELICOPTER

RHENIUM
Calculation of vaporization rates assuming various rate determining steps: Application to the resistojet
[NASA-TM-83757] 21 p3355 N84-31283
Platinum group coatings for refractory metals
[AD-A143792] 23 p3718 N84-33568

RHENIUM ALLOYS
Initial evaluation of molybdenum-rhenium alloy for reactor heat pipes
[DE83-012687] 01 p0145 N84-10955

RHEOELECTRICAL SIMULATION
Structure formation in an electric field and the composition of electrorheological suspensions
[AD-B081902] 16 p2462 N84-25777

RHEOLOGY
Comparative testing of polymer solutions. Part 1: Preliminary evaluation of a rheometrics fluids rheometer
[AD-A130688] 01 p0050 N84-10322
The effect of surface charge on the rheology of concentrated aqueous quartz suspensions
[CSIR-CENG-423] 04 p0493 N84-13235
Processing science for AS/3501-6 carbon/epoxy composites
[AD-A132323] 04 p0506 N84-13316
Improved polymers for enhanced-oil-recovery synthesis and rheology
[DE83-017371] 04 p0507 N84-13324
Changes in some rheological parameters of blood in experiments simulating weightlessness
07 p1044 N84-16774
Fundamentals of non-Newtonian liquid flow on surfaces
[AD-A135543] 08 p1158 N84-17541
The ball bearing as a rheological test device
[NASA-TM-83570] 08 p1166 N84-17591
The flow of an electrorheological suspension in cells of different geometries
[RAE-TRANS-2111] 11 p1646 N84-20760
Measurement of fast transient and steady state responses of viscoelastic fluids with a sliding cylinder rheometer executing coaxial displacements
[AD-A137996] 12 p1816 N84-21835
The 1950 sulfur flow of Mauna Loa: Considerations for Io 13 p2080 N84-23479
Rheological study of clay-kaolin aqueous suspensions
[NASA-TM-77363] 14 p2121 N84-23711
Deflocculation of clay suspensions using sodium polyacrylates
[NASA-TM-77432] 14 p2121 N84-23712
Tribology in the 80's. Volume 1: Sessions 1 to 4
[NASA-CP-2300-VOL-1] 14 p2152 N84-23891
Methods of full and accurate rheological characterization
[AD-B080747] 15 p2300 N84-24803
An investigation into the injection molding of PMR-15 polyimide
[NASA-CR-173550] 15 p2301 N84-24810
Elastohydrodynamic lubrication of smooth surfaces
15 p2315 N84-24895
Lubricant rheology in concentrated contacts
15 p2341 N84-25050
Structure formation in an electric field and the composition of electrorheological suspensions
[AD-B081902] 16 p2462 N84-25777
Viscoelastic effect on dynamic crack propagation in Homalite 100
[AD-P003115] 16 p2468 N84-25820
Development of methods of evaluation extensional properties of polymer solutions from measurements of shear
[AD-A140451] 16 p2472 N84-25845
Second-order effects in complex rheological flows
16 p2494 N84-25999
Kinetic-elastic approach for time-dependent rheological data on slurry fuels and polymers
[AD-A141210] 18 p2821 N84-27911
Flow of a simple viscoelastic fluid in a thin lubricating oil
[ISSN-0208-5658] 19 p3019 N84-29145
Reliability and efficiency of Kubicek rheographic method for monitoring cardiac output and stroke volume
20 p3253 N84-30644
Melt-flow-toughness modified polyimide
[NASA-CASE-LAR-13135-1] 24 p3887 N84-34616
On numerical methods in non-Newtonian flows
[DE84-701276] 24 p3899 N84-34691

RHEOMETERS
Measurement of fast transient and steady state responses of viscoelastic fluids with a sliding cylinder rheometer executing coaxial displacements
[AD-A137996] 12 p1816 N84-21835
Helical screw rheometer: A new concept in rotational rheometry
[DE84-004055] 14 p2149 N84-23873

RHODE ISLAND
Water resources data for Massachusetts and Rhode Island, water year 1982
[PB84-180009] 20 p3229 N84-30521
Wind turbine generator interaction with conventional diesel generators on Block Island, Rhode Island. Volume 2: Data analysis
[NASA-CR-168319] 21 p3433 N84-31783

RHODESIA
U ZIMBABWE

RHODIUM
New process for recycling of rhodium and iridium from old catalysts
[BMFT-FB-T-83-179] 08 p1126 N84-17321
Chemical modification of surfaces: The effect of potassium on the chemisorption of molecules on transition metal crystal surfaces
[DE84-006345] 14 p2244 N84-24473

RHODIUM COMPOUNDS
Raman spectroscopic study of acetylene on supported rhodium catalysts
[AD-A144099] 23 p3714 N84-33544

RHOMBIC ANTENNAS
Perturbations on the reception characteristics of antennas on Diego Garcia due to the presence of a GEODSS site
[AD-A136107] 09 p1303 N84-18520

RHYTHM (BIOLOGY)
NT CIRCADIAN RHYTHMS

RIBBON PARACHUTES
Development of the parachute recovery system for the LBRV-2 reentry vehicle
[DE84-003340] 08 p1100 N84-17151
A theoretical analysis of the aerodynamic and structural forces associated with a ribbon parachute canopy in steady descent 16 p2443 N84-25871

RIBBONS
Arc spray fabrication of metal matrix composite monotape — high temperature fiber-reinforced superalloy composites
[NASA-CASE-LEW-13828-1] 06 p0798 N84-15203
Proceedings of the Flat-Plate Solar Array Project Research Forum on the High-Speed Growth and Characterization of Crystals for Solar Cells
[NASA-CR-173746] 18 p2935 N84-28614
Crystallization of silicon ribbons
18 p2936 N84-28618
Rapidly solidified alloys made by chill block melt-spinning processes 18 p2937 N84-28625
The S-Web technique for high-speed growth of Si sheets 18 p2937 N84-28629
Edge Stabilized Ribbon (ESR); stress, dislocation density and electronic performance 18 p2937 N84-28630
Low angle silicon sheet growth: A review of progress, problems and promise 18 p2938 N84-28631
Mathematical modelling of high-speed ribbbon systems: A case study of edge-defined film-fed growth
18 p2938 N84-28632
An improved analysis of the thermal buckling of silicon sheet 18 p2938 N84-28633
Control of thermal stress in dendritic web growth
18 p2938 N84-28636

RIBONUCLEIC ACIDS
Bilateral carotid ligation and effects of electromagnetic field on conditioned reflex retention and cerebral nucleic acid levels 20 p3258 N84-30677

RIBOSE
Uracil and uridine photolysis on lunar soil
14 p2250 N84-24516
Poly (ADP-ribose) in nucleoids
[OEFZS-4267] 18 p2900 N84-28399

RIBS (SUPPORTS)
A three-dimensional photoelastic investigation of stresses and cracks formed in concrete around deformed reinforcing bars 06 p0862 N84-15821
Multi-transition stamping of components with thin body and tall stiffening ribs
[BLL-M-35384-(5826.4)] 08 p1140 N84-17415
Development of an advanced composite aileron for the L-1011 transport aircraft
[NASA-CR-3517] 18 p2810 N84-27836

RICCATI EQUATION
On the application of optical signal processing to the solution of Riccati equations
[AD-A130710] 01 p0133 N84-10869
Generalized inverses of matrices and its applications
[AD-A138274] 12 p1894 N84-22337
Numerical solution of algebraic matrix Riccati equations
[AD-A139929] 15 p2398 N84-25387
Stabilization studies
[AD-A142644] 20 p3261 N84-30632

RICE
Irrigated rice area estimation using remote sensing techniques: Project's proposal and preliminary results — Rio Grande do Sul, Brazil
[E84-10131] 16 p2506 N84-26081
Identification and estimation of the area planted with irrigated rice based on the visual interpretation of LANDSAT MSS data
[E84-10164] 17 p2710 N84-27256
RICHARDSON NUMBER
Terrain variables improve modeling of Richardson numbers less than unity in the lower atmosphere
[AD-A137926] 11 p1671 N84-20906
An ensemble formulation of PBL fluxes in a GCM
12 p1858 N84-22102
Local error estimating by doubling
[DE84-010107] 15 p2363 N84-25180
Numerical studies of baroclinic instability at small Richardson number 24 p3924 N84-34834
RICHARDSON-DUSHMAN EQUATION
U TEMPERATURE EFFECTS
U THERMIONIC EMISSION
RIDGES
Ridges on basalt flows 13 p2081 N84-23484
RIDING QUALITY
Evaluating and quantifying user perception of pavement serviceability
[PB83-207306] 01 p0058 N84-10375
Application of active and passive suspension techniques to improve high speed ground vehicle performance
[PB83-224576] 01 p0164 N84-11076
Ride quality meter
[NASA-CASE-LAR-12682-1] 03 p0375 N84-12445
Evaluation of ride quality prediction methods for helicopter interior noise and vibration environments
[NASA-TP-2261] 10 p1549 N84-20155
Flexible aircraft flying and ride qualities
11 p1615 N84-20572
A user-oriented and computerized model for estimating vehicle ride quality
[NASA-TP-2299] 12 p1866 N84-22162
Vehicle dynamic analysis with flexible components
[AD-P002939] 14 p2197 N84-24179
Evolution of a heave control system for an amphibious hovercraft
[CAR-8401] 16 p2475 N84-25864
RIEMANN INTEGRAL
U MEASURE AND INTEGRATION
RIEMANN MANIFOLD
The specific solutions of a uniform algebraic differential equation of the second order
[ISSN-0066-1953] 04 p0575 N84-13783
Positive biharmonic functions
04 p0575 N84-13786
Numerical computation of special zeros of partial sums of Riemann's zeta function 08 p1225 N84-18005
The first 200,000,001 zeros of Riemann's zeta function 08 p1225 N84-18006
On the grid generation methods in harmonic mapping on plane and curved surfaces
[NASA-CR-172331] 12 p1893 N84-22327
A rigid embedding of the closed Friedmann manifold
17 p2757 N84-27502
Applications of Riemann-Hilbert problem techniques to electromagnetic coupling through apertures
[DE84-009532] 19 p3009 N84-29073
Infinitesimal deformation of locally symmetrical Riemann spaces. 2: Blaschke's infinitesimal conjecture for complex projective space 22 p3636 N84-33049
Brownian motion and random walks on manifolds
22 p3636 N84-33051
Harmonic maps from S-2 to IHP-2
22 p3645 N84-33109
RIEMANN PROBLEM
U CAUCHY PROBLEM
RIEMANN SPACE
U RIEMANN MANIFOLD
RIFLES
A study of the action of an airgun
[BU-296] 16 p2454 N84-25734
RIFT VALLEYS
U VALLEYS
RIFTS
U GEOLOGICAL FAULTS
RIGID BODIES
U RIGID STRUCTURES
RIGID ROTOR HELICOPTERS
A time domain analysis of a rigid two-bladed fully gimballed helicopter rotor with circulation control
[AD-A136947] 10 p1422 N84-19296
RIGID ROTORS
Aeromechanical stability of a hingeless rotor in hover and forward flight: Analysis and wind tunnel tests
[NASA-TM-85683] 01 p0094 N84-10610
Hover test of a full-scale hingeless helicopter rotor: Aeroelastic stability, performance and loads data — wind tunnel tests
[NASA-TM-85892] 09 p1255 N84-18190
RIGID STRUCTURES
NT RIGID ROTORS
Further results on the predictions of collapse pressure of a ring stiffened cylindrical shell subject to hydrostatic pressure
[AD-A130877] 01 p0095 N84-10619
Yield surface for bars including warping restraint
[AD-A131393] 03 p0388 N84-12533
Numerical methods for jointed media and structures
05 p0691 N84-14538
Theory of rotation of the rigid Earth
07 p1030 N84-16674
A pressurized cylindrical shell with a fixed end which contains an axial part-through or through crack
[NASA-CR-173291] 08 p1189 N84-17618
Interaction between local and overall buckling modes in axially stiffened cylindrical shells
[UTIAS-247] 09 p1328 N84-18674
Geometrically nonlinear analysis of beam-in-space structures
[MITT-26] 12 p1827 N84-21914
Application of control theory to large flexible structures using the independent modal-space control method
13 p1940 N84-22617
Biaxial orientation and mechanical properties of amorphous polymers 13 p1998 N84-22965
Vehicle dynamic analysis with flexible components
[AD-P002939] 14 p2197 N84-24179
On the structure of rotational instabilities in non-Newtonian fluids 15 p2315 N84-24892
Integrated analysis and design of steel frames with interactive computer graphics 17 p2677 N84-27049
A new 48 D.O.F. quadrilateral shell element with variable-order polynomial and rational B-spline geometries with rigid body modes 17 p2678 N84-27058
New approach to the effective stress principle
[DE84-006963] 21 p3401 N84-31574
Compound strip methods for the analysis of continuous elastic plates 21 p3417 N84-31670
Vibrations and stability of thick plates
24 p3958 N84-35059
RILLS
U VALLEYS
RIMS
The dynamic in plane response at the centre of a rotating elastic disc due to oscillatory in plane forces at the rim
[ISVR-TR-121] 04 p0548 N84-13613
RING CURRENTS
The impact of Gulf Stream rings upon the Slope Water
[AD-P002662] 11 p1691 N84-21027
Magnetic effect of quiet ring current
17 p2708 N84-27244
MAGSAT correlations with geoid anomalies — western Gulf of Mexico
[E84-10174] 21 p3427 N84-31736
MAGSAT correlations with geoid anomalies — magnetic anomalies in the western Gulf of Mexico
[E84-10190] 22 p3613 N84-32894
Large-scale, near-Earth, magnetic fields from external sources and the corresponding induced internal field
[NASA-TM-85012] 24 p3918 N84-34807
RING LASERS
Flight test results of the strapdown ring laser gyro tetrad inertial navigation system
[NASA-TM-84358] 02 p0176 N84-11157
Phase conjugation in a ring laser cavity
[AD-A131156] 02 p0226 N84-11480
Laser journal (selected articles)
[AD-A131686] 03 p0379 N84-12465
Experimental investigation of the characteristics of an ultraviolet storage ring laser
[AD-A137751] 11 p1662 N84-20847
Implementation and evaluation of two design concepts of the passive ring resonator laser gyroscope
[AD-A138064] 12 p1818 N84-21851
Anomalous laser induced bunch lengthening on the ACO storage ring free electron laser
[AD-A138814] 13 p1995 N84-22949
Polarization switching with J=1/2 to J=1/2 atoms in a ring cavity 14 p2237 N84-24423
Effects of the radial variation of the electric field on some instabilities in lasers and in optical bistability
14 p2238 N84-24433
Transverse solitary waves in a dispersive ring bistability cavity containing a saturable nonlinearity
14 p2240 N84-24446
Reflex ring laser amplifier system
[DE84-010874] 20 p3193 N84-30282
Quantum optics and photonics
22 p3682 N84-33344
RING STRUCTURES
NT REINFORCEMENT RINGS
A multistage spent particle collector and a method for making same
[NASA-CASE-LEW-13914-1] 03 p0376 N84-12447
Precision support of annular optics
[DE83-017473] 04 p0605 N84-13993
Ring spacing of Mercurian multi-ring basins and basin ring formation 13 p2078 N84-23464
The physical mechanism of optical instabilities
14 p2232 N84-24389
Longitudinally stiffened composite multi-layer cylindrical shells (and rings) under internal pressure
15 p2309 N84-24855
Improving slipring performance
15 p2347 N84-25066
Galvanic corrosion of an aluminum O-ring
[DE84-011345] 20 p3157 N84-30047
Ring-type support concept for twisted coils (finite element simulation) — stellarators
[IPP-2/271] 20 p3200 N84-30327
Grounding ring for shielded cabin
[AD-D011135] 22 p3581 N84-32675
RINGS
Characteristics of an integrated optics ring resonator
[AD-A135878] 09 p1389 N84-19069
Lubrication and support of a single piston ring
[DE84-004366] 10 p1502 N84-19818
Study of large viscoplastic strains in cylindrical shells by method of magnetic-pulse loading
13 p1972 N84-22798
New theory for thick, composite-material rings
[AD-A138538] 13 p2001 N84-22981
Energy and statistical effects in the dynamic fragmentation of metal rings
[DE84-005458] 14 p2128 N84-23760
Wideband microstrip ring radiator
[AD-P003507] 21 p3384 N84-31475
Engine wear with methanol fuel in a nitrogen-free environment
[AD-A143530] 22 p3604 N84-32833
Large diameter optical slip-rings
[WSRL-0342-TM] 24 p3963 N84-35095
RINGS (MATHEMATICS)
Derivations of a prime ring which satisfy a polynomial identity
[AD-A135435] 08 p1220 N84-17963
RIPPLES
Thermal effects on surface ripple charges for waves on a plasma column
[TRITA-EPP-83-03] 02 p0297 N84-11948
The effect of superposing ripple loading of maneuver load cycles
[AD-A132653] 06 p0786 N84-15148
Thermally induced spin rate ripple on spacecraft with long radial appendages
[NASA-TM-85058] 07 p0964 N84-16249
Surface wave propagation over sinusoidally varying topography: Theory and observation
[IOS-159-PT-1] 13 p1991 N84-22922
Surface wave propagation over sinusoidally varying topography: Theory and observation
[IOS-159-PT-2] 13 p1991 N84-22923
RISERS
Multidirectional force and moment transducer
[REPT-5211901-80-1] 17 p2629 N84-26815
Development of an instrumented riser joint — for offshore platforms stress measurement
17 p2629 N84-26818
Nonlinear analysis of a bolted marine riser connector using NASTRAN substructuring
22 p3610 N84-32875
Porosity and environment 24 p3882 N84-34593
RISK
The relevance of experimental animal studies to the human experience
[DE83-014053] 01 p0112 N84-10729
Representations of perceptions of risks
[AD-A131443] 01 p0117 N84-10759
A comparative evaluation of quantitative decision-making approaches
[PB83-214106] 01 p0159 N84-11050
A comparative evaluation of quantitative decision-making approaches
[PB83-214114] 01 p0159 N84-11051
An approach to modeling of human performance for purposes of probabilistic risk assessment
[DE83-009292] 02 p0269 N84-11764
Ris assessment techniques: A handbook for program management personnel
[AD-A131596] 03 p0457 N84-13010
On Bayes and empirical bayes rules for selecting good populations
[AD-A133336] 06 p0904 N84-15869
Reducing risk in seaways — around the British Isles
08 p1102 N84-17163

Risk models for risk distance prediction during release of toxic industrial chemicals caused by acts of war
[FOA-C-40185-C2(H2)] 08 p1183 N84-17707
Cognition and arousal as predictors of risk taking: Effects of load and cognitive style
[AD-A134324] 08 p1203 N84-17843
Calculations of wall fire spread in an enclosure
[PB84-123165] 09 p1297 N84-18481
Effects of assuming independent component failure times, if they are actually dependent, in a series system
[AD-A136567] 09 p1327 N84-18667
Approximating the distribution of a dynamic risk portfolio
[AD-A136039] 09 p1383 N84-19035
Management of risk and uncertainty in systems acquisition: Proceedings of the 1983 Defense Risk and Uncertainty Workshop
[AD-A136230] 09 p1397 N84-19124
Cost risk trade-offs in timing the production decision
[AD-P002753] 13 p2050 N84-23300
Managing program risk: One way to reduce cost growth
[AD-P002754] 13 p2051 N84-23301
DECISION TECHNOLOGY: The catalyst for acquisition improvement
[AD-P002755] 13 p2051 N84-23302
Designing the equitable risk contract
[AD-P002756] 13 p2051 N84-23303
Assumption of risk in the R and D environment
[AD-P002757] 13 p2051 N84-23304
Cost risk and contract type: A normative model
[AD-P002761] 13 p2055 N84-23328
An application of the causal-integrative model
[AD-P002786] 13 p2056 N84-23333
Risk analysis: Comparing different contract types
[AD-P002768] 13 p2056 N84-23335
Liquefied energy gas terminal risk: A comparison and evaluation
[IIASA-RR-83-34] 15 p2360 N84-25161
Guidelines for developing NASA (National Aeronautics and Space Administration) ADP security risk management plans
[NASA-CR-173564] 16 p2542 N84-26317
Guidelines for development of NASA (National Aeronautics and Space Administration) computer security training programs
[NASA-CR-173562] 16 p2542 N84-26318
Risk and distributional inequality
[AD-A140373] 16 p2585 N84-26458
Risk: The long and the short
[AD-A140580] 17 p2746 N84-27436
Integrating research on perceived and acceptable risk within the psychometric paradigm
[AD-A140633] 17 p2747 N84-27440
Interactive risk analysis and development of standardized factors
[AD-A140758] 17 p2753 N84-27473
The introduction of uncertainty techniques to the productivity investment fund
[AD-A140864] 17 p2770 N84-27591
Risk-taking performance of military personnel: Sex differences and practice effects
[AD-P003262] 18 p2906 N84-28429
Health risks associated with aircraft model type among US Navy pilots
[AD-P003270] 18 p2907 N84-28435
Guidelines for contingency planning NASA (National Aeronautics and Space Administration) ADP security risk reduction decision studies
[PB84-189636] 20 p3268 N84-30737

RIT ENGINES

Analysis of beam interaction of the electrical thruster RIT 10 (particle emission) with surfaces
[DFVLR-FB-83-04] 02 p0185 N84-11202
Development, design and testing of the engineering model of the electric propulsion system Radiofrequency Ion Thrust Assembly (RITA)
[BMFT-FB-W-83-017] 07 p0965 N84-16254
Status and future application of the RF-propulsion systems RITA including interplanetary missions
[MBB-UR-646-83-O] 18 p2563 N84-26444

RIVER BASINS

NT COLUMBIA RIVER BASIN (ID-OR-WA)
NT DELAWARE RIVER BASIN (US)
NT MISSOURI RIVER BASIN (US)

Contribution of LANDSAT-4 thematic mapper data to geologic exploration
[E84-10021] 02 p0237 N84-11557
Water resources data for New Jersey, water year 1982. Volume 1: Atlantic Slope Basins, Hudson River to Cape May
[PB84-119726] 09 p1338 N84-18736
Water resources data for Illinois, water year 1982. Volume 2: Illinois River Basin
[PB84-120120] 09 p1338 N84-18739
Water resources data for Idaho, water year 1982. Volume 2: Upper Columbia River Basin and Snake River Basin below King Hill
[PB84-116488] 09 p1338 N84-18741
Water resources data for Colorado, water year 1982. Volume 3: Dolores River Basin, Green River Basin, and San Juan River Basin
[PB84-120146] 09 p1339 N84-18743
Water resources data Texas: Water year, 1982. Volume 1: Arkansas River Basin, Red River Basin, Sabine River Basin, Neches River Basin, Trinity River Basin and intervening coastal basins
[PB84-133271] 10 p1527 N84-20006
Performance evaluation and geologic utility of LANDSAT-4 TM and MSS data
[E84-10099] 12 p1826 N84-21918
Riparian habitat on the Humboldt River, Deeth to Elko, Nevada
[E84-10116] 14 p2167 N84-23976
Water resources data for Pennsylvania, Water Year 1982. Volume 1: Delaware River Basin
[PB84-161579] 14 p2170 N84-23999
Water resources data for Minnesota, water year 1982. Volume 1: Great Lakes and Souris-Red-Rainy River Basins
[PB84-163047] 14 p2171 N84-24007
Integration of LANDSAT land cover data into the Saginaw River basin geographic information system for hydrologic modeling
[AD-A140185] 16 p2510 N84-26106
Hydrologic simulation program. FORTRAN: Development, maintenance and application
[PB84-168418] 16 p2511 N84-26114
Comparison of land cover information from LANDSAT Multispectral Scanner (MSS) and airborne Thematic Mapper Simulator (TMS) data for hydrologic applications
20 p3216 N84-30431
Delineation of wetland boundaries using vegetation within the Altamaha River Basin of Georgia
[AD-A142590] 20 p3228 N84-30515
Estimation of recharge in a small southern Arizona basin by means of hydrological, hydrochemical, and environmental isotope data
[PB84-159672] 20 p3230 N84-30527
San Juan Mountains avalanche study: Evaluation and prediction of avalanche hazard, meteorological and avalanche observations
[PB84-202704] 21 p3432 N84-31778
Investigation of texturing functions. Application to ecographical zoning and to mapping land use in a sloping basin: The Aveyron
[CESR-83-1089] 23 p3784 N84-34001

RIVERS

NT COLORADO RIVER (NORTH AMERICA)
NT HUDSON RIVER (NY-NJ)
NT MISSISSIPPI RIVER (US)

Activities in hydraulics 02 p0235 N84-11542
LANDSAT-D thematic mapper image dimensionality reduction and geometric correction accuracy
[E84-10011] 02 p0236 N84-11549
Sediment radioactivity in the stretch of the Po river from Monte Trino to Valle Caorso: Some results for the period 1978-82
[CISE-2071] 05 p0701 N84-14600
Spatial reasoning to determine stream network from LANDSAT imagery
[E84-10063] 06 p0865 N84-15632
Use of LANDSAT MSS (multispectral scanner) digital data in water quality mapping of the Neuse River estuary, North Carolina
[PB83-256750] 06 p0867 N84-15645
Commentary on Columbia River instream flows
[PB84-133651] 10 p1527 N84-20007
Experimental investigations of rivulet meanders — flow instability
[MPIS-5/1983] 13 p2006 N84-23015
Experiments examining the shapes of isolated bars in comparison with those occurring in braided rivers
13 p2084 N84-23503
Environmental and water quality operational studies. Riverine influences on the water quality characteristics of West Point Lake
[AD-A141328] 18 p2877 N84-28271
Geological and geothermal investigation of the lower Wind River valley southwestern Washington Cascade Range
[DE84-012545] 21 p3431 N84-31771
Response of alluvial rivers to active tectonics
21 p3438 N84-31812
The Quaternary history and stratigraphy of the Cape Fear River valley, North Carolina
21 p3438 N84-31815
Remote sensing of coastal environment: The estuarine processes of Ta-Tu River 24 p3955 N84-35039

RIVETING

Innovations for improving performance, aerodynamic properties of aircraft 02 p0167 N84-11097
Economic riveting: Different bore qualities, fittings, connection elements 14 p2094 N84-23560

RIVETS

An assessment of the static strength of flush head aluminum alloy rivets in two grades of aramid aluminium laminate (ARALL) sheet
[VTH-LR-391] 12 p1827 N84-21913
The use of adhesive-bonded rivets to lessen the reductions in fatigue life caused by rivet holes
[ARL-STRUC-REPT-399] 24 p3887 N84-34617

RNA

U RIBONUCLEIC ACIDS

ROADS

NT HIGHWAYS

Microwave methods and apparatus for paving and paving maintenance
[DE84-016306] 06 p0822 N84-15359
Evaluation of Chem-Crete high strength modified asphalt concentrate
[PB84-105089] 08 p1172 N84-17636
Development of a computer program for road detection in satellite images
[FOA-C-30316-E1] 08 p1214 N84-17917
Vibration exposures concerning the drivers of trucks and vehicles operated by Rodotigre
10 p1552 N84-20173
The behavior of a slag base pavement structure at P39/1, Erasmia under heavy vehicle simulator loading
[RP/5/82] 11 p1839 N84-20716
Research and development of long heat pipes and their applications — heating road surfaces on bridges
20 p3170 N84-30126

ROADWAY POWERED VEHICLES

The Tracked Wing In Ground-Effect (TWIG)
03 p0330 N84-12155

ROASTING

MoO3, ex MoS2, with further processing of the metal-bearing waste sulfuric acid generated in the process
[BMFT-FB-T-83-297] 15 p2366 N84-25196

ROBOTICS

Optimal control of robotic manipulators
01 p0127 N84-10833
Robotics: An introduction to today's robot and future trends
[AD-A132070] 03 p0423 N84-12766
The impact of robotics on employment
[GPO-21-160] 05 p0715 N84-14684
An overview of artificial intelligence and robotics. Volume 1: Artificial intelligence. Part C: Basic AI topics
[NASA-TM-85839] 05 p0732 N84-14805
The syntactic theory of belief and knowledge
[AD-A133905] 05 p0732 N84-14807
Hypothesizing channels through free-space in solving the findpath problem
[AD-A133632] 05 p0732 N84-14810
European Scientific Notes, volume 37, number 8
[AD-A133938] 05 p0759 N84-14977
Automatic inspection for printed wiring
[AD-A133328] 06 p0854 N84-15566
The Stanford cart and the CMU Rover
[NASA-CR-174502] 06 p0893 N84-15803
The human side of robotics: Results from a prototype study on how workers react to a robot
[AD-A133438] 06 p0894 N84-15805
Implementation of automatic focusing algorithms for a computer vision system with camera control
[AD-A133492] 06 p0894 N84-15807
Laboratory robotics at the Savannah River Laboratory
[DE84-001760] 06 p0894 N84-15810
Sensor control of robot arc welding
06 p0931 N84-16047
European Scientific Notes. Volume 37, number 9
[AD-A133558] 06 p0935 N84-16079
Grippers for an unmanned forging cell
[AD-A134237] 07 p1051 N84-16808
Precision flexible machining cells within a manufacturing system
[AD-A134864] 08 p1167 N84-17595
Robotic technology applied to Army mobility systems
[AD-A134728] 08 p1216 N84-17933
Center of excellence in aerospace manufacturing automation
[AD-A136477] 09 p1249 N84-18155
Human capabilities 09 p1268 N84-18282
European technology requirements on space automation and teleoperation 09 p1297 N84-18477
Digitally-controlled adaptive welding system
[PB84-125285] 09 p1326 N84-18664
Dynamically stable legged locomotion
[AD-A136644] 09 p1363 N84-18905
Nonlinear systems in infinite dimensional state spaces
[AD-A136530] 09 p1384 N84-19042

Coordinated research in robotics and integrated manufacturing
[AD-A137042] 10 p1555 N84-20191
Modeling and robust control of a compliant robotic manipulator via the finite element method
11 p1703 N84-21102
A summary of Proceedings of the Department of Defense Robotics Applications Workshop, volume 1 (exclusive of presentations)
[AD-A137941] 11 p1711 N84-21157
Robotics at Savannah River
[DE84-003482] 11 p1712 N84-21158
ONR (Office of Naval Research) Far East Scientific Bulletin, volume 8, no. 4, October - December 1983
[AD-A138184] 12 p1783 N84-21632
An intersection algorithm for moving parts
12 p1871 N84-22193
Adaptive control strategies for computer-controlled manipulators
13 p2023 N84-23114
A survey of European robotics research
[AD-A136952] 13 p2024 N84-23122
Computer methods for industrial automation and robotics
13 p2031 N84-23168
The impact of factory automation and robotics on the contracting and acquisition processes
[AD-P002830] 13 p2062 N84-23375
Saab claims world's most modern engine-assembly plant
14 p2135 N84-23800
Volvo LCP: New materials, production methods
14 p2136 N84-23801
USSR report: Machine tools and metalworking equipment
[JPRS-UMM-84-008] 14 p2155 N84-23913
Industry urged to increase output of NC machine tool, robotics
14 p2155 N84-23914
Industry official on progress in Soviet robotics program
14 p2155 N84-23915
Use of robots in Estonian auto, machine tool industries viewed
14 p2155 N84-23916
Robotics impact on labor productivity examined
14 p2187 N84-24104
USSR report: Machine tools and metalworking equipment
[JPRS-UMM-84-009] 14 p2188 N84-24108
Resistance to robots in Soviet metallurgical plants noted
14 p2188 N84-24109
Impact of Latvian Robotics Institute on industry modernization
14 p2188 N84-24110
Belorussia's industry robotization program discussed
14 p2188 N84-24111
Level of robotization of Kazakhstan industry viewed
14 p2188 N84-24112
Control algorithms of Soviet HCS Ruselka for robots analyzed
14 p2188 N84-24113
Report of the Information Technology Workshop
[PB84-163203] 14 p2248 N84-24500
An expert distributed robotics system with comprehension and learning abilities in the aircraft flight domain
[AD-A139626] 15 p2364 N84-25300
A preliminary investigation on the application of robotics to missile fire control
[AD-A140369] 16 p2456 N84-25751
Integrated systems of manufacture (robotics) technology working group report (IDA/OSD Rand M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study)
[AD-A140304] 16 p2477 N84-25878
Statistical methods of pattern recognition
[ISBN-2-7225-0684-7] 16 p2544 N84-26330
National Aeronautics and Space Administration
16 p2568 N84-26481
Investment justification of robotic technology in aerospace manufacturing
[AD-A140782] 17 p2598 N84-26651
Feedback in robotics for assembly and manufacturing
[PB84-177112] 17 p2675 N84-27044
National Aeronautics and Space Administration
17 p2772 N84-27604
Conceptual design of a robotic loader system for remote missile launchers
[AD-A141270] 18 p2802 N84-27781
Vehicle concept for a robotic missile launcher
[AD-A141297] 18 p2802 N84-27782
Study of robotics systems applications to the space station program
[NASA-CR-173703] 18 p2807 N84-27819
An experimental study of an ultra-mobile vehicle for off-road transportation
[AD-A141323] 18 p2849 N84-28091
Robotron remote processing systems
18 p2919 N84-28510
Kinematic control of robot with degenerate wrist
[NASA-TP-2341] 18 p2923 N84-28539
An algorithm for seam tracking applications
[AD-A141705] 19 p3031 N84-29227
Robotic seam tracking
[AD-A141769] 19 p3031 N84-29228
Precision flexible machining cells within a manufacturing system
[AD-A142527] 20 p3170 N84-30129
Initial insights on robotics
[DE84-010768] 20 p3197 N84-30302
Robotic deburring. Part 1: Preliminary observations
[DE84-010766] 20 p3197 N84-30305
PRISM: A practical real-time imaging stereo matcher
[AD-A142532] 20 p3259 N84-30686
Artificial intelligence and robotics
[AD-A142488] 20 p3278 N84-30810
Basis research on intelligent robotic systems operating in hostile environments: New developments at ORNL
[DE84-011464] 21 p3414 N84-31647
Economic application of assembly robots: Elements of sensor applications to programmable feeders
[PB84-193200] 21 p3415 N84-31656
Computer aided ultrasonic testing
[CETIM-15-H-404] 21 p3416 N84-31661
Modeling, control and simulation of three-dimensional robotic systems with application to biped locomotion
21 p3460 N84-31943
Artificial Intelligence-Robotics applications to Navy aircraft maintenance
[AD-A143219] 22 p3529 N84-32345
Impact of robots and computers on the work force of the 1980's
[GPO-31-912] 22 p3603 N84-32826
Uncertainty covariances in robotics applications
[DE84-013417] 22 p3605 N84-32843
Robotisation of dye penetrant inspection: A study of a prototype and its development
[BLL-RISLEY-TRANS-4585-(9091.9)]
22 p3606 N84-32847
Development of robotics facility docking test hardware
[NASA-CR-171153] 23 p3698 N84-33433
Kirov's plant troubles with robotization
23 p3728 N84-33625
Administrative obstacles to robotization recalled
23 p3728 N84-33626
Robotization of stamping operation reviewed
23 p3728 N84-33627
Harness formation end-effector with interchangeable tool capability
[AD-D011168] 23 p3757 N84-33813
USSR report: Machine tools and metalworking equipment
[JPRS-UMM-84-017] 24 p3891 N84-34640
Technical features of robotized machining system viewed
24 p3892 N84-34643
Midi-robots get underway in September: Lab-industry link
24 p3892 N84-34649
Lamberton Robotics develops new robot to handle heavy loads
24 p3892 N84-34650
East Europe report: Science and technology
[JPRS-ESA-84-028] 24 p3943 N84-34967
Initial steps in utilization of robots
24 p3944 N84-34971
Research on parallelism in problem-solving systems
[AD-A144414] 24 p3954 N84-35036
Report of the Information Technology Workshop
[AD-A144212] 24 p3968 N84-35126

ROBOTS

Optimal control of robotic manipulators
01 p0127 N84-10833
An overview of artificial intelligence and robotics. Volume 1: Artificial intelligence. Part B: Applications
[NASA-TM-85838] 01 p0128 N84-10834
East Europe report: Scientific affairs, no. 789
[JPRS-84426] 02 p0205 N84-11336
Report on development, installation of industrial robots
02 p0205 N84-11339
A survey of robotic technology
[AD-A130099] 02 p0269 N84-11762
Robotics: An introduction to today's robot and future trends
[AD-A132070] 03 p0423 N84-12768
Kinematic equations for resolved-rate control of an industrial robot arm
[NASA-TM-85685] 04 p0585 N84-13866
Robotics-related technology in the nuclear industry
[DE83-017131] 06 p0893 N84-15799
Robot manipulator control
[AD-A129365] 06 p0893 N84-15800
A distributed control system for the CMU Rover
[AD-A133201] 06 p0893 N84-15802
The human side of robotics: Results from a prototype study on how workers react to a robot
[AD-A133438] 06 p0894 N84-15805
Laboratory robotics at the Savannah River Laboratory
[DE84-001760] 06 p0894 N84-15810
Stability enhancement of a flexible robot manipulator
[AD-A134185] 07 p1051 N84-16807
Kinematics and dynamics of multi-rigid-body open-chain systems: Application to robot manipulators
08 p1204 N84-17851
An optical proximity sensor for measuring surface position and orientation for robot manipulation
[AD-A134899] 08 p1205 N84-17861
Measurement of robot accuracy using the Latin Square Three-Dimensional Ball Plate
[DE84-004920] 08 p1206 N84-17862
Center of excellence in aerospace manufacturing automation
[AD-A136477] 09 p1249 N84-18155
Dynamically stable legged locomotion
[AD-A136644] 09 p1363 N84-18905
Coordinated research in robotics and integrated manufacturing
[AD-A137042] 10 p1555 N84-20191
Automatic planning of fine motions: Correctness and completeness
[AD-A137355] 10 p1568 N84-20269
Three-dimensional locating of industrial parts
[PB84-134790] 11 p1641 N84-20731
Electronics/electrical manufacturing industry research needs
[PB84-122969] 11 p1648 N84-20774
Robotics at Savannah River
[DE84-003482] 11 p1712 N84-21158
Overall mechanization of assembly and welding processes in the manufacture of ships' structures
12 p1787 N84-21653
Applying robotic technology to the solid film lubricant burnishing operation
[DE84-007113] 12 p1823 N84-21885
Guidance and actuation systems for an adaptive-suspension vehicle
[AD-A139111] 14 p2155 N84-23910
Automatic synthesis of fine-motion strategies for robots
[AD-A139532] 14 p2188 N84-24107
Application of symbolic computation to the analysis of mechanical systems, including robot arms
[AD-P002940] 14 p2197 N84-24180
Computer-aided design of robots
17 p2674 N84-27037
Testing and control of a compliant wrist
[AD-A140842] 17 p2748 N84-27445
Study of robotics systems applications to the space station program
[NASA-CR-173703] 18 p2807 N84-27819
Robotron image processing systems
18 p2919 N84-28509
An algorithm for seam tracking applications
[AD-A141705] 19 p3031 N84-29227
Path relaxation: Path planning for a mobile robot
[AD-A141779] 19 p3032 N84-29229
Strategies for analytical applications and implementation of a multi-purpose laboratory robot
[DE84-012379] 20 p3198 N84-30314
Artificial intelligence and robotics
[AD-A142488] 20 p3278 N84-30810
Optimum control of electric motor drives for industrial robots
[DE84-012878] 21 p3395 N84-31543
Microprocessor enhanced real time manual control of an industrial robot
[DE84-011605] 21 p3413 N84-31645
Uncertainty covariances in robotics applications
[DE84-013417] 22 p3605 N84-32843
USSR report: Machine tools and metalworking equipment
[JPRS-UMM-84-016] 23 p3728 N84-33623
Versatility of new east, west European robots viewed
23 p3728 N84-33624
Optimal performance in a step motor controlled robot
23 p3735 N84-33664
Technical features of robotized machining system viewed
24 p3892 N84-34643
OECD study shows Sweden has highest robot-worker ratio
24 p3892 N84-34648
Midi-robots get underway in September: Lab-industry link
24 p3892 N84-34649
Lamberton Robotics develops new robot to handle heavy loads
24 p3892 N84-34650
End-point control of flexible robots
[AD-A144428] 24 p3910 N84-34766
East Europe report: Science and technology
[JPRS-ESA-84-026] 24 p3943 N84-34967
Initial steps in utilization of robots
24 p3944 N84-34971

ROBUSTNESS (MATHEMATICS)

Performance and robustness aspects of digital control systems
01 p0015 N84-10098
Directionally efficient robust estimators of location via exponential embedding
[AD-A130525] 01 p0130 N84-10854

Robust ABLUE's (Asymptotically Best Linear Unbiased Estimators) for location and scale parameter estimation
[AD-A130752] 01 p0132 N84-10867
A note on optimal and robust spacing selection
[AD-A130427] 01 p0136 N84-10868
Robust linear filtering for multivariable stationary time series
[AD-A131209] 02 p0281 N84-11844
Robust estimates of ordered parameters
[AD-A131204] 02 p0282 N84-11846
Robust prediction and interpolation for Vector stationary processes
[AD-A130973] 02 p0284 N84-11859
Advanced topics in robustness for multivariable control
[AD-A134606] 07 p1058 N84-16850
Redundancy relations and robust failure detection
[NASA-CR-173252] 07 p1058 N84-16854
Robust estimation with censored and grouped data: An application of the EM algorithm
[MATHS-RES-174] 07 p1067 N84-16927
Detection of abrupt changes in dynamic systems
[NASA-CR-173217] 08 p1223 N84-17988
Robust procedures for communication data
[AD-A136540] 09 p1299 N84-18493
Effects of assuming independent component failure times, if they are actually dependent, in a series system
[AD-A136567] 09 p1327 N84-18667
On the robust rank analysis of linear models with nonsymetric error distributions
[AD-A135792] 09 p1377 N84-18994
Robust estimation based on Walsh averages for the general linear model
[AD-A136187] 09 p1378 N84-19004
Real-time flutter analysis
[NASA-CR-170412] 11 p1605 N84-20512
Modeling and robust control of a compliant robotic manipulator via the finite element method
11 p1703 N84-21102
Smoothing, regularization and ill-posed inverse problems; robust and convex estimation of functions of several variables
[AD-A137810] 11 p1714 N84-21176
Representations of uncertainty and robustness
[OUEL-1489/83] 12 p1892 N84-22322
Adequate/inadequate representations of uncertainty and their implications for robustness analysis
[OUEL-1498/83] 12 p1892 N84-22323
Robustness and sensitivity of Smith predictor controllers for time-delay systems
[RR-238] 13 p1974 N84-22812
A comparison of several alternatives to maximum likelihood for the Weibull distribution
[AD-A138721] 13 p2036 N84-23208
Digital multivariable tracker control laws for the C-141-A Starlifter aircraft
[AFIT/GE/EE/82D-47] 15 p2254 N84-24533
Design and robustness analysis of reduced order controllers for large flexible space vehicles
15 p2269 N84-24623
Design of a robust missile controller by vector performance optimization
[DFVLR-FB-84-05] 15 p2280 N84-24694
Robustness qualification and improvement of multivariable regulators, with application to airplane control
[ONERA-NT-1983-2] 16 p2451 N84-25720
Robustness quantification for nonlinear sampled-data systems with dynamic multiplicative perturbations
16 p2476 N84-25871
Robust statistical methods 16 p2504 N84-26071
Simulation experiments with goal-seeking adaptive elements
[AD-A140295] 16 p2546 N84-26343
Signal detection and block truncation coding for image compression
[AD-A141162] 18 p2829 N84-27958
A simulation aid to gain estimates for robust tuning regulators
[RR-245] 18 p2922 N84-28533
Interactive flight control system analysis program
[NASA-CR-172352] 19 p2968 N84-28807
Adaptive decentralized control
[AD-A142160] 19 p3081 N84-29549
Representation of uncertainty and robustness tests for multivariable feedback systems
[OUEL-1517/84] 19 p3091 N84-29627
Extensions of the small-mu test for robust stability
[OUEL-1518/84] 19 p3091 N84-29628
A robustness test for distributed feedback systems
[OUEL-1522/84] 19 p3091 N84-29630
New approaches to robust confidence intervals for location: A simulation study
[AD-A142248] 19 p3094 N84-29646
Bi- and poly-optimal confidence limits for a location and parameter
[AD-A142980] 21 p3473 N84-32012
The use of double sampling in studying robustness
[AD-A142962] 21 p3475 N84-32022
Robust C(Alpha)-type tests for linear models
[AD-A143177] 22 p3648 N84-33125
Robust model selection in regression
[AD-A143209] 22 p3648 N84-33127
Comparison of frequency-domain and time-domain rotorcraft vibration control methods
[NASA-CR-166570] 24 p3852 N84-34431

ROCHE LIMIT
Radiative transfer in Roche coordinates
15 p2421 N84-25544

ROCK INTRUSIONS
NT BATHOLITHS
Structural variation of proterozoic dikes in central Superior Province: A possible reflection of post-Archean shield deformation 11 p1678 N84-20954
Evaluation of LANDSAT-4 Thematic Mapper data as applied to geologic exploration: Summary of results — Death Valley, California, Cement-Velma, Oklahoma; Big Horn and Wind River Basins, Wyoming; Spanish Peaks, Colorado; and the Four Corners area (Paradox Basin of Utah and Colorado) 20 p3213 N84-30412

ROCK MECHANICS
Proceedings of the 1982 Forum on Subsidence Due to Fluid Withdrawals
[DE84-001028] 05 p0704 N84-14618
Relevance of rock mechanics to gun propellants
[DE84-002010] 05 p0704 N84-14620
Microcrack damage model of brittle rock
[DE84-002088] 06 p0679 N84-15717
Shock wave properties of anorthosite and gabbro
[NASA-CR-173309] 08 p1155 N84-17521
Proceedings, Seminar on Probabilistic Methods in Geotechnical Engineering
[AD-A136497] 09 p1345 N84-18788
Research highlights from the Earth Sciences Division
[DE84-003916] 12 p1828 N84-21916
Constitutive models for static and dynamic response of geotechnical materials
[AD-A139293] 14 p2134 N84-23790
Seismic model of Earth's crust in southern Sea of Okhotsk region and some results of its geological inerpretation 17 p2701 N84-27207
Emission effects of memory in rocks
17 p2705 N84-27227
Computational method for thermoviscoelasticity with application to rock mechanics
[DE84-003087] 20 p3242 N84-30585
Ambient temperature testing of the G-tunnel heated block
[DE84-009927] 20 p3298 N84-30945
Review of the strength of brittle rock materials
23 p3722 N84-33586
Some aspects of the deformation and brittle destruction of elastooptic materials 23 p3722 N84-33587
Strength of gypsum in complex states of stress
23 p3722 N84-33588
Deformation of the subsurface silurian and devonian rocks of the southern tier of New York State
23 p3795 N84-34067

ROCKET BOOSTERS
U BOOSTER ROCKET ENGINES

ROCKET CHAMBERS
U THRUST CHAMBERS

ROCKET ENGINE CASES
Pretest plan for a quarter scale AFT segment of the SRB filament wound case in the NSWC hydroballistics facility — space shuttle boosters
[NASA-CR-171028] 15 p2281 N84-24699
Development and fabrication of a graphite/epoxy motor case for air launch missile applications
20 p3142 N84-29948
Development of GAP-TAGN-PEG propellants. Part 1: Study of ingredients 20 p3143 N84-29954
Development of in situ stiffness properties for shuttle booster filament wound case
[NASA-TP-2377] 23 p3711 N84-33521

ROCKET ENGINE CONTROL
Journal of the Chinese Society of Astronautics (selected articles)
[AD-A131881] 03 p0341 N84-12212

ROCKET ENGINE DESIGN
Air intakes for a probative missile of rocket ramjet
[NASA-TM-77407] 09 p1251 N84-18170
Oxygen/hydrogen thrusters for the space station auxiliary propulsion systems 20 p3140 N84-29934
The liquid bipropellant stage concept: Filling the OTV gap 20 p3140 N84-29936
AFRPL solar-thermal rocket activities
20 p3140 N84-29938
Exploratory testing of the MBB 10 N bipropellant engine. Volume 2: Preliminary exhaust plume investigations
[MBB-UR-561-82-VOL-2] 23 p3702 N84-33464

ROCKET ENGINES
NT APOGEE BOOST MOTORS
NT ARC JET ENGINES
NT BOOSTER ROCKET ENGINES
NT DUCTED ROCKET ENGINES
NT ELECTROSTATIC ENGINES
NT ELECTROTHERMAL ENGINES
NT HYDRAZINE ENGINES
NT HYDROGEN OXYGEN ENGINES
NT ION ENGINES
NT LIQUID PROPELLANT ROCKET ENGINES
NT MERCURY ION ENGINES
NT MICROROCKET ENGINES
NT NUCLEAR ROCKET ENGINES
NT ORBIT MANEUVERING ENGINE (SPACE SHUTTLE)
NT P-1 ENGINE
NT RESISTOJET ENGINES
NT RIT ENGINES
NT SOLID PROPELLANT ROCKET ENGINES
NT SPACE SHUTTLE MAIN ENGINE
NT UPPER STAGE ROCKET ENGINES
Journal of Engineering Thermophysics (selected articles)
[AD-A133167] 06 p0796 N84-15184
Gas-particle mixture flows in a spinning solid rocket motor
[ISAS-607] 07 p0965 N84-16252
Space Processing Applications Rocket (SPAR) project, SPAR 9
[NASA-TM-82549] 08 p1113 N84-17239
High altitude manauver control tests in the NSWC (Naval Surface Weapone Center) hypervelocity wind tunnel
[AD-A136105] 09 p1253 N84-18178
Advanced ion thruster research
[NASA-CR-168340] 10 p1450 N84-19467
Development of a simplified procedure for rocket engine thrust chamber life prediction with creep
[NASA-CR-168261] 10 p1450 N84-19472
Journal of Engineering Thermophysics (selected articles)
[AD-A137191] 11 p1745 N84-21391
Tangential mode instability in double-base solid rocket motors: A case study 13 p1948 N84-22652
Very low thrust gaseous oxygen-hydrogen rocket engine ignition technology 13 p1952 N84-22692
The influence of sensor and thruster imperfections on the attitude and position of a spacecraft performing a rendezvous 15 p2267 N84-24615
Journal of engineering thermophysics (selected articles)
[AD-A139070] 15 p2415 N84-25501
Diffuser/ejector system for a very high vacuum environment
[NASA-CASE-MRS-25791-1] 18 p2797 N84-27749
Low thrust bipropellant engine development
20 p3136 N84-29912
Propulsion options for orbit-on-demand
20 p3136 N84-29915
Evolution and flight history of the Defense Meteorological Satellite Program (DMSP) propulsion module 20 p3137 N84-29917
MPD thruster comparisons with advanced chemical systems for auxiliary propulsion applications
20 p3139 N84-29928
Thrust balance efficiency measurements for a pulsed inductive thruster 20 p3139 N84-29930
Oxygen/hydrogen thrusters for the space station auxiliary propulsion systems 20 p3140 N84-29934
The liquid bipropellant stage concept: Filling the OTV gap 20 p3140 N84-29936
AFRPL solar-thermal rocket activities
20 p3140 N84-29938
History of aircraft escape system propulsion
20 p3141 N84-29941
Propulsion in a life-saving role for ACES 2
20 p3141 N84-29942
The Stencel S4S ejection seat: A study in new pyrotechnic developments 20 p3141 N84-29943
Crest: Crew escape technologies for the 1990's
20 p3141 N84-29944
Characterization of filament wound Kevlar and glass composites for rocket motor applications
20 p3142 N84-29949
A turbomechanical thrust vector control for advanced intercontinental ballistic missiles
20 p3143 N84-29953
An MPD thruster with liquid metal injection
[ISAS-610] 20 p3165 N84-30103
Helium thrustor propulsion system for precise attitude control and drag compensation of the gravity Probe-B satellite 21 p3349 N84-31242

Annual meeting of the Pyrotechnics and Explosives Applications Section on the American Defense Preparedness Association
[AD-A143157] 21 p3373 N84-31406
Rocket injector anomalies study. Volume 1: Description of the mathematical model and solution procedure
[NASA-CR-174702] 22 p3543 N84-32428
Experimental investigation of rocket motor flow-turning acoustic losses
[AD-A144168] 24 p3866 N84-34504

ROCKET EXHAUST
An approach to experimental investigation of jet plume effects on missile aerodynamics
[AD-A131336] 02 p0186 N84-11210
MSFC exhaust effluent diffusion predictions and measurements for STS-1, STS-2, STS-3, and STS-4
[NASA-TM-82551] 02 p0243 N84-11593
Correlation of flight effects on centerline velocity decay for cold-flow acoustically excited jets
[NASA-TM-83502] 02 p0287 N84-11883
Modeling of modification experiments involving neutral gas release — from space shuttles
05 p0640 N84-14209
Rocket exhaust effects as active space plasma experiments of opportunity 05 p0640 N84-14211
JANNAF Handbook: Rocket exhaust plume technology. Chapter 6: Spacecraft plume contamination
[AD-A131689] 05 p0644 N84-14236
Space shuttle exhaust cloud properties
[NASA-TP-2258] 05 p0702 N84-14606
Inertial Upper Stage (IUS) Solid Rocket Motor (SRM) core flow sampling at high altitudes
[AD-A134997] 08 p1121 N84-17288
Investigation of free jets issued from small solid propellant rocket engines 08 p1121 N84-17290
Environmental monitoring instrumentation and monitoring techniques for space shuttle launches
[AD-A136594] 09 p1342 N84-18766
The 14th JANNAF Plume Technology Meeting, volume 1
[AD-A139654] 13 p1941 N84-22619
MMH-nitrate and plume deposits from NTO/MMH engines 13 p1941 N84-22620
Application of the CONTAM 3 computer model to the prediction of heating, forces, and contamination on a communications satellite 13 p1941 N84-22621
CONTAM 3 plus improved CONTAM 3 usability
13 p1941 N84-22622
Solid carbon oxidation and radiation in exhaust plumes
13 p1941 N84-22623
Multiple point source model for three dimensional plume flow fields 13 p1941 N84-22625
Operational update to the RCS flow field of the space shuttle orbiter 13 p1942 N84-22626
Aircraft exhaust plume signature predictions for non-axisymmetric multiple engine installations
13 p1942 N84-22627
Mach number and density effects in the mixing of supersonic jets 13 p1942 N84-22628
Theoretical predictions of excitation cross sections for collisions of HF, HCl, CO, H2O, and CO2 with O(P-3)
13 p1942 N84-22630
Effects of chemical releases by the STS-3 Orbiter on the ionosphere
[NASA-CR-171032] 15 p2367 N84-25204
Experimental exhaust plume investigation with MBB 10 N bipropellant thruster
[MBB-UR-558-84] 17 p2617 N84-26747
Exploratory testing of the MBB 10 N bipropellant engine. Volume 2: Preliminary exhaust plume investigations
[MBB-UR-561-82-VOL-2] 23 p3702 N84-33464

ROCKET FIRING
Optimal low thrust, three burn orbit transfers with large plane changes 06 p0793 N84-15166

ROCKET LAUNCHING
Fluidic generator to power rocket proximity fuze
[AD-A131082] 01 p0029 N84-10184
From launching carrier rockets towards the Pacific on the accomplishments and problems of electronic technologies in our country
[AD-A131086] 03 p0366 N84-12380
Air monitoring techniques for space shuttle launches Vandenberg Air Force Base
[AD-A132956] 05 p0700 N84-14593
Geokinetic effects on motion sensitive instrumentation, systems and facilities
[AD-A142682] 20 p3241 N84-30575
The annular flow electrothermal ramjet
[NASA-CR-174704] 21 p3354 N84-31275

ROCKET LININGS
Qualification of a new MAPO source and ERL-510 curing agent for Minuteman Stage I UF-2121 liner
[AD-A137539] 11 p1626 N84-20640

ROCKET MOTOR CASES
U ROCKET ENGINE CASES

ROCKET NOSE CONES
Development of the parachute recovery system for the LBRV-2 reentry vehicle
[DE84-003340] 06 p1100 N84-17151

ROCKET NOZZLES
Particle impact erosion. Volume 3. User's manual chamber flowfield code (CFC) and Charring Material Ablation-Erosion (CMAE) code
[AD-A131007] 02 p0186 N84-11208
Particle impact erosion. Volume 4. User's manual erosion prediction procedure for rocket nozzle expansion region
[AD-A131008] 02 p0186 N84-11209
Internal pressure distributions for a two-dimensional thrust-reversing nozzle operating at a free-stream Mach number of zero
[NASA-TM-85655] 04 p0480 N84-13161
The SRB nozzle erosion related flow analysis
[NASA-CR-170961] 07 p0965 N84-16251
Numerical schemes used in the computer program for nozzle performance predications of liquid rocket engines
[NAL-TR-771] 09 p1274 N84-18316
Computations of transonic, chemically reacting flows in rocket nozzles
[NAL-TR-766] 09 p1274 N84-18318
Flow processes in overexpanded chemical rocket nozzles. Part 2: Side loads due to asymmetric separation
[NASA-TM-77395] 10 p1450 N84-19471
Three-dimensional, two-phase supersonic nozzle flows
[AD-A138649] 13 p1926 N84-22538
Multidirectional composites in ballistic and aerospace vehicles
[SNIAS-832-430-102] 16 p2458 N84-25759
Fluidic thrust vector control thruster development
20 p3141 N84-29940
The manufacturing process and the cold deployment test of an extendible nozzle made of C-103 niobium alloy
[AD-A144524] 24 p3884 N84-34608

ROCKET OXIDIZERS
A study of methods for alleviation of flow decay risk to the Galileo spacecraft 20 p3137 N84-29919

ROCKET PROPELLANT TANKS
U PROPELLANT TANKS

ROCKET PROPELLANTS
NT CRYOGENIC ROCKET PROPELLANTS
NT DOUBLE BASE ROCKET PROPELLANTS
NT HYPERGOLIC ROCKET PROPELLANTS
NT LIQUID ROCKET PROPELLANTS
NT METAL PROPELLANTS
NT MONOPROPELLANTS
NT NITRAMINE PROPELLANTS
NT SLURRY PROPELLANTS
NT SOLID ROCKET PROPELLANTS
NT TATB
Development of advanced inert-gas ion thrusters
[NASA-CR-168206] 01 p0029 N84-10180
Influence of stratospheric aerosols forming during combustion of rocket fuels on Earth's albedo
11 p1670 N84-20899
FY 1985 technical objective document
[AD-A140581] 17 p2770 N84-27586
An MPD thruster with liquid metal injection
[ISAS-610] 20 p3165 N84-30103
Advantages of metallic fuels for rocket propulsion
21 p3348 N84-31237

ROCKET PROPELLED SLEDS
Project DELUGE: A proposed mathematical model for the Holloman AFB test track simulated rainfield
[AD-A134891] 08 p1106 N84-17207
Transmitted thrust on a large dual rail rocket sled system
[AD-A137151] 11 p1621 N84-20608

ROCKET SONDES
U SOUNDING ROCKETS

ROCKET SOUNDING
Speed-dependent collision effects on radar back-scattering from the ionosphere --- incoherent scatter radar
[NASA-CR-173077] 03 p0359 N84-12336
Results from wave injection experiments on the Porcupine rocket 05 p0635 N84-14175
Observation of waves induced by an artificial ion beam in the ionosphere 05 p0635 N84-14176
Plasma particle acceleration due to emission of ground-based and onboard transmitters
05 p0636 N84-14181
Preliminary results from the Heating Rocket (HERO) project: In situ measurements of ionospheric modifications using sounding rockets 05 p0636 N84-14183
Fast magnetospheric echoes of energetic electron beams 05 p0636 N84-14187
Ionospheric modification by electron beams. Results from electron accelerator experiments on rockets in Norway 05 p0637 N84-14188
Overview of project Brazil Ionospheric Modification Experiment (BIME) 05 p0639 N84-14207
Real-time in-situ targeting of geoplasma domains for purposes of chemical injection and artificial triggering of equatorial spread-F 05 p0639 N84-14208
Plasma composition and structure characterization of an ionospheric barium cloud 05 p0640 N84-14213
Sequential barium releases to study tangential versus rotational discontinuities in auroral arcs
05 p0640 N84-14215
Project Porcupine: The MF mutual impedance probe experiment. Part 1: Flight F2 (March 1977)
[CRPE-NT-93-VOL-1] 05 p0705 N84-14624
Project Porcupine: The MF mutual impedance probe experiment. Part 2: Flights F3 and F4 (March 1979)
[CRPE-NT-94-VOL-2] 05 p0705 N84-14625
Results of foil cloud experiments performed at Esrange (Kiruna, Sweden) and Andenes (Andoya, Norway) during the Energy Budget Campaign, November 1981 — wind measurement
[BMFT-FB-W-83-012] 07 p1034 N84-16710
Rocket and laboratory studies in aeronomy and astronomy
[NASA-CR-173272] 07 p1066 N84-17075
The electron Echo 6 mechanical deployment systems
15 p2348 N84-25094
The diffuse ultraviolet background: 1700 - 2900 Angstroms 16 p2576 N84-26534
MST radar detection of middle atmosphere tides
17 p2682 N84-27079
Plasma processes caused by an electron beam injected from a high altitude rocket probe. Part 1: Neutralization processes
[IWF-8302] 17 p2728 N84-27363
Plasma processes caused by an electron beam injected from a high altitude rocket probe. Part 2: Studies of beam-plasma discharge
[IWF-8303] 17 p2728 N84-27364
Measurement of nitric oxide in the equatorial D-region and other relevant parameters
[IWF-8304] 17 p2728 N84-27365
Ionospheric observation activities report
[UIO-SR-84-01] 17 p2728 N84-27367
Upper air sounding subprogram of Alpine Experiment (ALPEX) 18 p2889 N84-28337

ROCKET THRUST
Ion thruster project
[INPE-2803-PRE/363] 02 p0186 N84-11205
Investigation of a pulsed electrothermal thruster
[NASA-CR-168266] 03 p0343 N84-12227
Dynamic certification of a thrust-measuring system for large solid rocket motors 06 p0860 N84-15603

ROCKET VEHICLES
NT ARIANE LAUNCH VEHICLE
NT ATLAS CENTAUR LAUNCH VEHICLE
NT CENTAUR LAUNCH VEHICLE
NT MULTISTAGE ROCKET VEHICLES
NT PAYLOAD ASSIST MODULE
NT SOUNDING ROCKETS

ROCKET-BORNE INSTRUMENTS
Sounding rocket XUV observations of Capella
04 p0618 N84-14078
Plasma heating generated by a rocket-borne electron accelerator 05 p0637 N84-14189
Stellar Ultraviolet Rocket Research Program — faint object spectrograph
[NASA-CR-175361] 08 p1242 N84-18119
Morning twilight observations of the zodiacal light and terrestrial airglow 16 p2526 N84-26222
A rocket-borne Langmuir probe for in-situ measurement of ionospheric plasma
[INPE-3206-PRE/564] 21 p3349 N84-31244
Earth-based planetary data 23 p3842 N84-34374

ROCKET-BORNE PHOTOGRAPHY
A normal incidence, high resolution X-ray telescope for solar coronal observations
[NASA-CR-173518] 13 p2070 N84-23412

ROCKETS
The rocket-triggered lightning investigation
[AD-A131409] 02 p0249 N84-11631
A laser-fusion rocket for interplanetary propulsion
[DE84-001236] 04 p0490 N84-13219

ROCKS
NT ANDESITE
NT ANORTHOSITE
NT BASALT
NT BEDROCK
NT BRECCIA
NT COAL
NT GNEISS
NT GRANITE
NT IGNEOUS ROCKS
NT LIMESTONE
NT LUNAR ROCKS
NT MOLDAVITE
NT PERIDOTITE

NT REGOLITH
NT SANDSTONES
NT SHALES
NT SOLVENT REFINED COAL
Creep and thermal effects in aging solids
[DE83-012673] 01 p0098 N84-10635
User's manual for SPECTROM-41: A finite-element heat transfer program
[DE83-014809] 02 p0219 N84-11439
Instruction manual for the use of the CSIR triaxial rock stress measuring equipment
[CSIR-ME-1763] 04 p0538 N84-13535
Evaluation of radiometric and geometric characteristics of LANDSAT-D imaging system
[E84-10050] 04 p0553 N84-13643
Geology of carbonate aggregate resources of Illinois, Illinois mineral notes
[PB83-251140] 04 p0565 N84-13725
The magnetic petrology of the deep crust and the interpretation of regional magnetic anomalies
05 p0706 N84-14634
Magnetic anomalies in east Pacific using MAGSAT data
[E84-10060] 06 p0864 N84-15630
Wave propagation in porous rock and models for crustal structure 06 p0876 N84-15698
Evaluation of published criteria for identifying metamorphic rocks on air photos: Two case studies in the northeastern United States
[AD-A135451] 08 p1177 N84-17672
The classifications of metamorphic rocks and their applications to air photo interpretation procedures
[AD-A134965] 08 p1178 N84-17675
Lithological characterization of crystalline basement rock provinces of the interior of the United States
[NASA-CR-175180] 08 p1186 N84-17727
Mechanics of geomaterials: Rocks, concretes, soils. Preprints, William Prager Symposium
[PB84-112812] 09 p1297 N84-18482
Mechanical details of a modified Hamilton Frame velocimeter
[AD-A136180] 09 p1318 N84-18613
Aeromagnetic map of Yucca Mountain and surrounding regions, southwest Nevada
[DE84-003920] 10 p1526 N84-19995
The magnetic petrology of the deep crust and the interpretation of regional magnetic anomalies
[NASA-CR-175407] 10 p1533 N84-20041
Abrasion by aeolian particles: Earth and Mars
[NASA-CR-3788] 11 p1628 N84-20654
Determining density of upper mantle rocks
11 p1670 N84-20898
Thermal contraints on high-pressure granulite metamorphism of supracrustal rocks
11 p1678 N84-20948
Is the Kapuskasing structure the site of a cryptic suture 11 p1678 N84-20949
Development of the Earth's early crust: Implications from the Beartooth Mountains 11 p1679 N84-20959
Clastic sedimentary rocks of the Michipicoten Volcanic-sedimentary belt, Wawa, Ontario
11 p1679 N84-20960
Metamorphic fluids and uplift-erosion history of a portion of the Kapuskasing structural zone, Ontario, as deduced from fluid inclusions 11 p1680 N84-20962
Geochemistry of volcanic rocks from the Wawa greenstone belt 11 p1680 N84-20963
Granitic rocks and metasediments in Archean crust, Rainy Lake area, Ontario: ND isotope evidence for mantle-like SM/ND sources 11 p1680 N84-20964
Continental crustal composition and lower crustal models 11 p1680 N84-20965
The Archean crust in the Wawa-Chapleau-Timmins region. A field guidebook prepared for the 1983 Archean Geochemistry-Early Crustal Genesis Field Conference
11 p1681 N84-20969
Lunar sample analysis
[NASA-CR-171771] 11 p1758 N84-21477
Weathered stony meteorites from Victoria Land, Antarctica, as possible guides to rock weathering on Mars 13 p2085 N84-23509
A review of classical silicate-rock analysis and recommended modifications of classical methods of analysis
[USGS-CIRC-864] 14 p2175 N84-24027
Geochemical analyses, age dates, and flow-volume estimates for quaternary volcanic rocks, Southern Cascade Mountains, Washington
[DE84-007662] 15 p2368 N84-25211
Effects of weathering and lichen cover on the middle infrared spectra of rocks
[AD-A140228] 16 p2510 N84-26111
Vortex lifted stone ingestion: The influence of stone diameter
[BAE-KRS-N-GEN-276] 17 p2603 N84-26676
Tectonic and magmatic rock of central Pacific Ocean
18 p2858 N84-28150
Characteristic rock dimensions and hierarchical properties of seismicity 18 p2863 N84-28176
Some specifics of influence of pore pressure on physical properties of deformable rocks
18 p2864 N84-28180
Magnetometer for study of temperature variation of saturation magnetism of rock specimens
18 p2864 N84-28182
Applications of texture analysis for rock types discrimination, phase 2
[AD-A142268] 19 p3042 N84-29303
Assessment of computer-based geologic mapping of rock units in the LANDSAT-4 scene of northern Death Valley, California 20 p3214 N84-30416
Computational method for thermoviscoelasticity with application to rock mechanics
[DE84-003087] 20 p3242 N84-30585
Microfacies, depositional models and diagenesis of Lagoa Feia Formation (lower cretaceous), Campos Basin, offshore Brazil 21 p3440 N84-31827
Geology, petrology and geochronology of the metamorphic rocks of Meatiq Dome, Central Eastern Desert, Egypt 22 p3621 N84-32942
Paleomagnetism, rock magnetism and diagenesis in hemipelagic sediments from the northeast Pacific Ocean and the Gulf of California 22 p3621 N84-32944
Analysis of Laramide and younger deformation of a segment of the Big Bend region, Texas
23 p3794 N84-34060
Deformation of the subsurface silurian and devonian rocks of the southern tier of New York State
23 p3795 N84-34067
ROCKWELL HARDNESS
Hard metal composition
[DE84-011034] 20 p3156 N84-30040
Effects of applied pressure on hot-pressing of Beta-SiC
[NASA-TM-77397] 23 p3723 N84-33593
RODENTS
NT MICE
NT RABBITS
NT RATS
Combined effects of ionizing radiation and anticholinesterase exposure on rodent motor performance
[AD-A131847] 03 p0414 N84-12707
Rodent CNS neuron development: Timing of cell birth and death 09 p1357 N84-18870
A rodent water dispensing system for use in hypobaric chambers
[AD-A141167] 18 p2894 N84-28362
RODS
NT CONTROL RODS
Dynamic pulse buckling, theory and experiment. Handbook
[AD-A130910] 01 p0095 N84-10621
Some bifurcation topics in non-linear elastostatics
03 p0387 N84-12524
Potential flow through a cascade of alternately displaced circular bodies: The rod-wall wind tunnel boundary conditions
[NASA-TM-85750] 11 p1601 N84-20487
Linear and nonlinear finite elements
[AD-A138468] 12 p1895 N84-22341
Effect of cooling rate on corrosion properties and microstructure of high strength aluminum alloys
[NLR-TR-82105-U] 15 p2297 N84-24783
Analysis of fracture modes during extrusion and drawing of bimetal rods or wire
[DE84-009849] 20 p3157 N84-30051
Longitudinal vibrations of rods of finite length with radial deformation
[AD-A142674] 21 p3421 N84-31703
Electronic cancelling of acoustic traveling waves
[AD-D011153] 23 p3735 N84-33667
ROGALLO WINGS
U FLEXIBLE WINGS
U FOLDING STRUCTURES
ROLL
The question of optimization of three-dimensional maneuver of orbital apparatus in the atmosphere
[AD-A134753] 08 p1119 N84-17280
Accuracy of visually perceived roll angle and roll rate using an artificial horizon and peripheral displays
[VTH-LR-377] 10 p1552 N84-20171
Drift prediction for a roll-stabilized inertial measurement system
[AD-P002674] 11 p1657 N84-20811
Development of lateral-directional equivalent system models for selected U.S. Navy tactical aircraft
[AD-A141672] 19 p2968 N84-26810
ROLL CONTROL
U LATERAL CONTROL
ROLL FORMING
Beta titanium alloy metal-metal laminates: Fabrication, structure and mechanical properties
[AD-A130378] 01 p0043 N84-10278
A simple mathematical model for heat transfer and its application for continuous type reheating furnaces
01 p0077 N84-10503
Heat pipes made of roll bond panels
[BMFT-FB-T-83-116] 02 p0242 N84-11586
Calculation of the life of components of metallurgical equipment from the parameter of failure probability
[BLL-M-35351-(5826.4F)] 04 p0545 N84-13594
The change of the mechanical properties of steel strip in processing lines
[BMFT-FB-T-83-178] 06 p1135 N84-17383
Flat plate heat pipe collectors made by roll bonding
[BMFT-FB-T-83-202] 10 p1495 N84-19778
The heat treatment response of thermomechanically processed M-50 steel
[AD-A136571] 13 p1960 N84-22736
ROLLER BEARINGS
Thermomechanical processing of M-50 steel
[AD-A132272] 04 p0499 N84-13271
A new application of proximity probe measurement on rolling element bearings
[AD-P002679] 11 p1656 N84-20816
Engine reliability through bearing condition monitoring — aircraft engines
[PNR-90168] 13 p1933 N84-22570
Effect of outer race misalignment on the high speed performance of ball bearings
[NAL-TR-786] 16 p2498 N84-26028
The low temperature behavior of lubricant greases
18 p2819 N84-27902
Operating characteristics of a three-piece-inner-ring large-bore roller bearing to speeds of 3 million DN
[NASA-TP-2355] 19 p3031 N84-29226
Thermal analysis of a planetary transmission with spherical roller bearings operating after complete loss of oil
[NASA-TP-2367] 22 p3603 N84-32524
ROLLERS
Non-Hertzian rolling contact with longitudinal creepage
15 p2315 N84-24894
Roll-trusion (RT*) of composite structures
[AD-A140638] 17 p2618 N84-26757
ROLLING
Hydrodynamic lubrication of rigid nonconformal contacts in combined rolling and normal motion
[NASA-TM-83578] 08 p1166 N84-17592
ROLLING CONTACT LOADS
Measurement of rolling friction by a damped oscillator
[NASA-TP-2257] 04 p0543 N84-13577
Hydrodynamic lubrication of rigid nonconformal contacts in combined rolling and normal motion
[NASA-TM-83578] 08 p1166 N84-17592
Demonstration of the coast-down technique for determining train resistances
[NASA-CR-173468] 12 p1765 N84-21515
Non-Hertzian rolling contact with longitudinal creepage
15 p2315 N84-24894
Friction in low speed lubricated rolling and sliding contacts
[VTT-16] 20 p3199 N84-30318
ROLLING MOMENTS
Liquid payload roll moment induced by a spinning and coning projectile
[AD-A133681] 05 p0680 N84-14472
Minimal drag for wings with prescribed lift, roll moment and yaw moment
[AD-A134572] 07 p0948 N84-16152
An experimental study on the induced rolling moment due to wing-tail interference and roll-controllable two-stage rocket
[NAL-TR-793] 12 p1777 N84-21599
Wind tunnel investigation of the rolling moment of a rectangular wind with some winglets on the left upper tip
[NAL-TR-788] 16 p2440 N84-25850
A relationship between liquid roll moment and liquid side moment
[AD-A140658] 17 p2668 N84-27011
ROLLUP SOLAR ARRAYS
U SOLAR ARRAYS
ROMANIA
Current concerns in fields of hydrology, meteorology
24 p3960 N84-35076
ROOFS
The predicted impact of linear roof apertures on the energy performance of office buildings
16 p2514 N84-26133
Overview of Roof Pond Systems
16 p2516 N84-26150
Preliminary guidelines for maintenance of polyurethane foam (PUF) roofing systems
[AD-A143458] 22 p3560 N84-32543

ROOM TEMPERATURE
Room temperature optical bistability in semiconductors and realization of optical and gates
14 p2233 N84-24393
Room temperature optical nonlinearities in GaAs multiple quantum wells 14 p2235 N84-24406
Vacuum-deposited thin-film interferometers as bistable devices operating continuously at room temperature
14 p2241 N84-24453
Raman investigation of the rate of OH uptake in stressed and unstressed optical fibers
[AD-A143142] 21 p3498 N84-32172

ROOMS
NT CLEAN ROOMS
Hazardous conditions in single enclosures subjected to fire
[FOA-C-20524-D6] 15 p2305 N84-24831
Causes and prevention of systematic deviations from true values of absorption coefficients measured in reverberation rooms
[NRC/CNR-TT-2060] 15 p2403 N84-25423
Natural convection flows and associated heat transfer processes in room fires
[PB84-171172] 20 p3172 N84-30140

ROOTS
Calcium elicited asymmetric auxin transport in gravity influenced root segments 09 p1352 N84-18835
Protein and carotenoid synthesis and turnover in gravistimulated root caps 09 p1352 N84-18837
Distribution results for positive definite quadratic forms with repeated roots
[AD-A143450] 22 p3645 N84-33115

ROOTS OF EQUATIONS
On sensitivity, compensation and the approach to the asymptotes in multivariable root-loci
[RR-222] 03 p0426 N84-12795
Geometric conditions for generic structure of multivariable root-loci
[RR-227] 05 p0738 N84-14849
Fingerprint theorems for zero-crossings
[AD-A139181] 14 p2212 N84-24280
Seminar on Zeroing Methods and Applications, spring trimester, 1983 16 p2540 N84-26304
Remarks concerning the application of polynomial zeroing methods on the algebraic eigenvalue problem
16 p2541 N84-26309
A note on a cyclotomic diophantine equation
[CTH-MATH-1983-28] 17 p2762 N84-27541
Finding the roots of the transcendental equations in the problem of determining the thermal conductivity of a plate under heterogeneous boundary conditions
[BLL-M-35602-(5826.4)] 19 p3062 N84-29554
Some results on the diophantine equation X-2+D=Y-N
[CTH-MATH-1984-06] 19 p3091 N84-29624
Algebraic and dynamic characterizations of poles and zeroes at infinity
[MATHS-RES-175] 19 p3091 N84-29626
Upper bounds for the numbers of solutions of diophantine equations
[MATH-CENTRE-TRACTS-168]
21 p3474 N84-32019
Method of acceleration of arithmetic calculations
24 p3941 N84-34949

ROSAT MISSION
High Resolution Imager (HRI) for the Roentgen Satellite (ROSAT) definition study
[NASA-CR-174598] 03 p0342 N84-12223

ROSS ICE SHELF
Optimal measurement of ice-sheet deformation from surface-marker arrays
[NASA-CR-173677] 22 p3622 N84-32950
A study of antarctic remote site automatic weather station data (1980-81) from the ross ice shelf area
[AD-A143738] 23 p3802 N84-34105

ROSSBY WAVES
U PLANETARY WAVES

ROTARY DRIVES
U MECHANICAL DRIVES

ROTARY ENGINES
A review of internal combustion engine combustion chamber process studies at NASA Lewis Research Center
[NASA-TM-83666] 15 p2331 N84-24999
An overview of the NASA rotary engine research program
[NASA-TM-83690] 19 p2965 N84-28791
Computer design and optimization of the active rotary flux compressor
[DE84-010089] 19 p3030 N84-29215
Comparison between two Lysholm engines
[DE84-013696] 22 p3564 N84-32571
Development of partially fluorinated resin apex seals
[NASA-CR-174706] 22 p3603 N84-32828

ROTARY GYROSCOPES
Micro-Optic gyro technology
[AD-A130990] 02 p0223 N84-11461
Research on new approaches to optical systems for inertial rotation sensing
[AD-A136045] 09 p1254 N84-18166
Extraction of rotation information from a simulated fiber optic gyro using amplitude modulation
[AD-A138092] 12 p1767 N84-21528
Analog fiber gyro with extended linear range
[AD-D011009] 19 p2962 N84-28771
Note on the displacement effect in a spinning fluid
[AD-A141599] 19 p3024 N84-29175

ROTARY STABILITY
NT GYROSCOPIC STABILITY
Family of airfoil shapes for rotating blades — for increased power efficiency and blade stability
[NASA-CASE-LAR-12843-1] 02 p0173 N84-11136
Effects of different rub models on simulated rotor dynamics
[NASA-TP-2220] 08 p1166 N84-17590
Rotordynamic characteristics of the HPOTP (High Pressure Oxygen Turbopump) of the SSME (Space Shuttle Main Engine)
[NASA-CR-170987] 10 p1438 N84-19389
High pressure oxygen turbopump bearing cage stability analyses — space shuttle main engine
[NASA-CR-170991] 10 p1502 N84-19815
Running stability of large rotor bearing foundation models
[ILR-MITT-124/1983] 12 p1823 N84-21887
System for torque control of unbalanced rotor during passage through resonance 13 p1973 N84-22802
Approach to solving problem of acoustic wave diffraction by elastic shell 13 p1973 N84-22804
Balancing of flexible rotors with simultaneous precise determination of influencing factors
13 p1974 N84-22808
Nonuniqueness and stability of the configuration of flow of immiscible fluids with different viscosities
[AD-P002937] 14 p2196 N84-24177
Middle East Technical University Journal of Pure and Applied Sciences, volume 15, no. 3
15 p2401 N84-25411
Free vibration analysis of uniform and nonuniform cantilever beams by including the effects of transverse shear deformation and rotary inertia
15 p2402 N84-25417
Apparatus for and method of compensating dynamic unbalance
[NASA-CASE-GSC-12550-1] 18 p2848 N84-28082
Analysis of SSME HPOTP rotordynamics subsynchronous whirl
[NASA-CR-171094] 19 p2963 N84-28900
Computer design and optimization of the active rotary flux compressor
[DE84-010089] 19 p3030 N84-29215

ROTARY WING AIRCRAFT
NT H-60 HELICOPTER
NT HEAVY LIFT HELICOPTERS
NT HELICOPTERS
NT MILITARY HELICOPTERS
NT RIGID ROTOR HELICOPTERS
NT ROTOR SYSTEMS RESEARCH AIRCRAFT
NT SH-3 HELICOPTER
NT TILT ROTOR AIRCRAFT
NT UH-1 HELICOPTER
NT UH-60A HELICOPTER
NT XV-15 AIRCRAFT
World and United States aviation and space records, as of June 1, 1983 01 p0001 N84-10009
Application of the small body pressure transducer
[AD-A131733] 03 p0377 N84-12454
Rotorcraft icing technology: An update
06 p0776 N84-15084
Rotary wing aircraft and technical publications of NASA, 1970 - 1982
[NASA-TM-85521] 08 p1239 N84-18102
Computer program for prediction of the deposition of material released from fixed and rotary wing aircraft
[NASA-CR-3780] 11 p1600 N84-20482
Numerical studies of the deposition of material released from fixed and rotary wing aircraft
11 p1602 N84-20491
Application of the small body pressure transducer
[AD-P002687] 11 p1659 N84-20822
Variable stator radial turbine
[NASA-CR-174663] 13 p1932 N84-22568
Comparison of frequency-domain and time-domain rotorcraft vibration control methods
[NASA-CR-166570] 24 p3852 N84-34431

ROTARY WINGS
NT BEARINGLESS ROTORS
NT CIRCULATION CONTROL ROTORS
NT RIGID ROTORS
NT TIP DRIVEN ROTORS
NT X WING ROTORS
Model helicopter rotor high-speed impulsive noise: Measured acoustics and blade pressures
[NASA-TM-85850] 01 p0003 N84-10020
An empirical appraisal of defects in composites — helicopter tail rotor blades 01 p0034 N84-10211
Parametric tip effects for conformable rotor applications
[NASA-TM-85682] 01 p0094 N84-10609
Rotor-vortex interaction noise
[NASA-CR-3744] 01 p0139 N84-10912
The influence of aeroelastic stability requirements on helicopter design 02 p0171 N84-11127
Aeroelastic considerations in the design of high speed rotors 02 p0171 N84-11128
Estimated analysis of the aeroelastic behavior of tail rotors 02 p0172 N84-11129
The role of aeroelasticity in the preliminary design of helicopter rotors 02 p0172 N84-11130
Family of airfoil shapes for rotating blades — for increased power efficiency and blade stability
[NASA-CASE-LAR-12843-1] 02 p0173 N84-11136
Helicopter rotor wake geometry and its influence in forward flight. Volume 2: Wake geometry charts
[NASA-CR-3727] 03 p0320 N84-12091
Design considerations for bearingless rotor hubs
[AD-A131660] 03 p0331 N84-12162
La Recherche Aerospatiale, Bimonthly Bulletin, no. 1982-4, 209/July-August 1982
[ESA-TT-781] 04 p0477 N84-13141
La Recherche Aerospatiale, Bimonthly Bulletin, no. 1982-5, 210/September-October 1982
[ESA-TT-785] 04 p0477 N84-13142
Rotorcraft icing technology: An update
06 p0776 N84-15084
A study of helicopter rotor aerodynamics in ground-effect at low speeds 06 p0779 N84-15106
Comparison of calculated and measured pressures on straight and swept-tip model rotor blades
[NASA-TM-85872] 07 p0947 N84-16143
Calculation of the aerodynamic flow field in the vicinity of a Sea King helicopter
[ARL-AERO-REPT-158] 08 p1096 N84-17128
Documentation of ice shapes on the main rotor of a UH-1H helicopter in hover
[NASA-CR-168332] 08 p1098 N84-17139
Design of helicopter rotor blades for optimum dynamic characteristics
[NASA-CR-175380] 08 p1103 N84-17171
Computation of potential flows with embedded vortex rings and applications to helicopter rotor wakes
[NASA-CR-166542] 08 p1156 N84-17526
Experimental blade vortex interaction noise characteristics of a utility helicopter at 1/4 scale
[NASA-TM-84653] 08 p1227 N84-18018
Computer programs for helicopter high speed flight analysis
[AD-A136376] 09 p1255 N84-18191
Investigation of the effect of blade sweep on rotor vibratory loads
[NASA-CR-166526] 09 p1256 N84-18196
Mechanical ice release processes. Part 1: Self-shedding from high-speed rotors
[AD-A135369] 09 p1256 N84-18198
Helicopter impulsive noise: Theoretical and experimental status
[NASA-TM-84390] 09 p1386 N84-19050
Investigation of operational and design factors resulting from main rotor and tail rotor interactions
[AD-A137710] 11 p1603 N84-20497
Mach number correlation for a two-dimensional helicopter rotor-blade analysis in the tip region
12 p1765 N84-21509
Initial experiments on profile vortex interaction — helicopter noise
[MPIS-6/1983] 12 p1766 N84-21520
Broadband rotor noise analyses
[NASA-CR-3797] 12 p1899 N84-22365
Acoustic measurements of a full-scale rotor with four tip shapes. Volume 1: Text, appendices A and B
[NASA-TM-85878-VOL-1] 14 p2221 N84-24327
Navier-Stokes calculations for the vortex of a rotor in hover
[NASA-TM-85894] 15 p2255 N84-24540
Acoustic measurements of a full-scale rotor with four tip shapes. Volume 2: Appendices C, D, E and F
[NASA-TM-85878-VOL-2] 15 p2403 N84-25426
A principal rotor without joints and pillows, made of fiber materials, for dynamic systems of future helicopters
[MBB-UD-384-83-O] 16 p2562 N84-26440

A numerical analysis for blade tip loadings on a thick bladed hovering helicopter rotor
17 p2599 N84-26858
An analysis of rotor blade twist variables associated with different Euler sequences and pretwist treatments
[NASA-TM-84394] 17 p2606 N84-26893
Solution of 3-dimensional time-dependent viscous flows. Part 2: Development of the computer code
[NASA-CR-166565-PT-2] 17 p2666 N84-27002
Solution of 3-dimensional time-dependent viscous flows. Part 3: Application to turbulent and unsteady flows
[NASA-CR-166565-PT-3] 17 p2667 N84-27003
Solution of 3-dimensional time-dependent viscous flows. Part 1: Investigation of candidate algorithms
[NASA-CR-166565-PT-1] 17 p2757 N84-27503
Two-dimensional aerodynamic characteristics of an airfoil designed for two
[NASA-TP-1965] 18 p2786 N84-27694
Evaluation of UH-1H hover performance degradation caused by rotor icing
[AD-A141252] 18 p2793 N84-27727
Modeling of the overall aeroelastic system of a wind turbine aided by symbolic programming
[DFVLR-FB-84-10] 18 p2877 N84-28265
Shapes for rotating airfoils
[NASA-CASE-LAR-12396-1] 19 p2956 N84-28732
Role of empirical methods 19 p3097 N84-29670
Priority for empirical methods development
19 p3097 N84-29671
High-speed noise of helicopter rotors
19 p3097 N84-29673
The influence of a wind tunnel on helicopter rotational noise: Formulation of analysis
[NASA-TM-85982] 20 p3290 N84-30887
Development and application of an analysis of axisymmetric body effects on helicopter rotor aerodynamics using modified slender body theory
[NASA-TM-85934] 21 p3324 N84-31090
Effect of radial load distribution on the first-harmonic inflow velocity of a helicopter rotor at transition speeds
[AD-A142840] 21 p3325 N84-31100
Flapping-torsional response of helicopter rotor blades to turbulence excitation 21 p3327 N84-31110
Helicopter anti-torque system using strakes
[NASA-CASE-LAR-13233-1] 23 p3692 N84-33400
Hover test of a full-scale hingeless rotor
[NASA-TM-85990] 23 p3692 N84-33401
Subsonic/transonic stall flutter investigation of a rotating rig
[NASA-CR-174625] 23 p3695 N84-33417
Periodic control of the individual-blade-control helicopter rotor
[NASA-CR-166807] 24 p3911 N84-34771

ROTATING
U ROTATION

ROTATING BODIES
NT BEARINGLESS ROTORS
NT CIRCULATION CONTROL ROTORS
NT COMPRESSOR ROTORS
NT FLYWHEELS
NT HELICOPTER TAIL ROTORS
NT IMPELLERS
NT PUMP IMPELLERS
NT RIGID ROTORS
NT ROTARY WINGS
NT ROTATING CYLINDERS
NT ROTATING DISKS
NT ROTATING SPHERES
NT ROTORS
NT TAIL ROTORS
NT TIP DRIVEN ROTORS
NT TURBINE WHEELS
NT X WING ROTORS
Forced vibration analysis of rotating cyclic structures in NASTRAN
[NASA-CR-165429] 02 p0231 N84-11514
Vibration monitoring using a computer-network approach
[DE83-012123] 02 p0232 N84-11523
An experimental evaluation of the thermal performance of a rotating heat pipe with internal axial fins
[AD-A132553] 04 p0533 N84-13504
The compressible aerodynamics of rotating blades based on an acoustic formulation
[NASA-TP-2197] 04 p0594 N84-13923
Boundary layer development on rotating bodies of revolution 07 p0957 N84-16204
Central burst of simultaneously rotating and gravitating body 13 p1969 N84-22783
Dynamic response of rotating beams with nonconstant angular velocity 16 p2503 N84-26067
Determining orientation of solid object
17 p2642 N84-26907
Equations in Rodrigues-Hamilton parameters for heavy solid body rotating about fixed point
17 p2643 N84-26908
Apparatus for and method of compensating dynamic unbalance
[NASA-CASE-GSC-12550-1] 18 p2848 N84-28062
NASTRAN forced vibration analysis of rotating cyclic structures
[NASA-CR-173821] 19 p3035 N84-29252
An experimental study of helical guide-type rotating heat pipe 20 p3169 N84-30123
Four new capabilities in NASTRAN for dynamic and aeroelastic analyses of rotating cyclic structures
22 p3611 N84-32876
Dynamics of angular movements of a solid supporting a rotating rotor with consideration of energy dissipation
[AD-A143349] 22 p3611 N84-32881

ROTATING CYLINDERS
Oscillations of a liquid in a rotating cylinder. Part 2: Spin-up
[AD-A129094] 01 p0077 N84-10505
Complex eigenvalues for the stability of Couette flow
[NASA-CR-172251] 04 p0531 N84-13492
An experimental investigation of the boundary layer structures in a partially-filled horizontal and rapidly-rotating cylinder 06 p0832 N84-15414
Liquid management in low gravity using baffled rotating containers
[NASA-TP-2263] 06 p0834 N84-15427
Inversion of ringdown data for a rotating liquid cylinder
[AD-A134742] 06 p1159 N84-17546
Similar velocity profiles and integral quantities of a boundary layer on a rotating cylinder
[VKI-NT-148] 06 p1160 N84-17553
Rotating cathode device for molten salt bath — to prepare metallic titanium or aluminum
[BLL-OA-TRANS-3173-(6196.3)]
09 p1317 N84-18604
Stability of stationary rotation of cylinder filled with stratified viscous incompressible fluid
21 p3479 N84-32054
The chemical and physical changes on lubricated surfaces 22 p3602 N84-32620
The stress analysis of a rotating cylinder experiment to determine crack growth in thick section steel
[DE84-701733] 24 p3913 N84-34778

ROTATING DISKS
Stability of rotating disk flows
01 p0076 N84-10495
Finite element forced vibration analysis of rotating cyclic structures
[NASA-CR-165430] 02 p0231 N84-11515
A gas-flow tracing technique applicable to rotating systems boundary layer on a rotating disk
[DE83-012761] 03 p0372 N84-12425
The dynamic in plane response at the centre of a rotating elastic disc due to oscillatory in plane forces at the rim
[ISVR-TR-121] 04 p0548 N84-13613
Prediction of critical speeds, unbalance and nonsynchronous forced response of rotors
10 p1515 N84-19918
Cathodic stripping voltammetry of thioamides on a rotating silver disk electrode
[AD-A139200] 14 p2122 N84-23718
Vibration and flutter of mistuned bladed-disk assemblies
[NASA-TM-83634] 14 p2157 N84-23923
Flow between rotating disks. Part 1: Basic flow
15 p2315 N84-24890
Flow between rotating disks. Part 2: Stability
15 p2315 N84-24891
Spinning disk calibration method and apparatus for laser Doppler velocimeter
[NASA-CASE-ARC-11510-1] 15 p2335 N84-25015

ROTATING ELECTRICAL MACHINES
Electrical-shock prevention. Volume 3: Fault protection for motion-drive equipment
[PB84-102961] 06 p1206 N84-17867

ROTATING FLUIDS
NT ROTATING LIQUIDS
Low gravity experiment for studying a rotating fluid having a free surface
[NASA-CR-170923] 03 p0371 N84-12413
The AGCE related studies of baroclinic flows in spherical geometry
[NASA-CR-170934] 03 p0371 N84-12415
On the model equations which describe nonlinear wave motions in a rotating fluid
[AD-A134556] 07 p1002 N84-16499
La Recherche Aerospatiale, bimonthly bulletin number 1983-2, 213/March-April
[ESA-TT-817] 08 p1226 N84-18013
On the structure of rotational instabilities in non-Newtonian fluids 15 p2315 N84-24892
Unsteady flow in turbomachinery: An overview
16 p2488 N84-25961
Theory of rotating stall of multistage axial compressors 16 p2489 N84-25964
Three-dimensional rotational inviscid flow calculation — turbomachines 19 p3022 N84-29166

ROTATING GENERATORS
NT AC GENERATORS
NT DYNAMOMETERS
NT HOMOPOLAR GENERATORS
NT TURBOGENERATORS
Development of a generator stator insulation system
[AD-A130376] 01 p0070 N84-10455
Advanced high-power generator for airborne applications
[AD-A133290] 06 p0830 N84-15396
Investigation of Doubly-Fed Machine in Variable Speed Applications
[DE84-012943] 22 p3618 N84-32928
Enhanced efficiency of modern four-stroke Diesel engines in generator operation
23 p3757 N84-33617

ROTATING LIQUIDS
Instabilities of a gyroscope produced by rapidly rotating, highly viscous liquids
[AD-A130874] 01 p0084 N84-10547
Invariance of level of rotating liquid
[BLL-M-95611-(5828.4)] 20 p3182 N84-30220

ROTATING MIRRORS
Improvements to high speed rotating prism cameras including on board timing and event pulse generators
[MRL-TN-476] 08 p1161 N84-17557
Accuracy in folding mirror mechanism displacement law — Space Telescope 09 p1295 N84-18464
Multiprofile-streak technique
[MBB-UA-776-83-O] 16 p2564 N84-26447
Varying bandpass of optical spatial filter by rotating mirrors having changing reflectivity
[AD-D011114] 22 p3656 N84-33173

ROTATING PLASMAS
Sequential barium releases to study tangential versus rotational discontinuities in auroral arcs
05 p0640 N84-14215
Power spectral signatures of interplanetary corotating and transient flows
[NASA-TM-86051] 08 p1244 N84-18131

ROTATING SHAFTS
NT SHAFTS (MACHINE ELEMENTS)
NT TURBOSHAFTS
Resilient seal ring assembly with spring means applying force to wedge member — cryogenic applications
[NASA-CASE-MFS-25678-1] 02 p0226 N84-11497
Vertical shaft windmill
[NASA-CASE-LAR-12923-1] 03 p0383 N84-12490
Experimental study of bubble cavities attached to a rotating shaft in a reservoir
[NASA-TM-83586] 06 p1157 N84-17533
Prediction of critical speeds, unbalance and nonsynchronous forced response of rotors
10 p1515 N84-19918
Design of power-transmitting shifts
[NASA-RP-1123] 17 p2675 N84-27041
Directional gear ratio transmissions
[NASA-CASE-LAR-12644-1] 18 p2848 N84-28064
Dual rotating shaft seal apparatus
[DE84-011101] 20 p3197 N84-30307
Critical speed of centrifugal pumps
21 p3418 N84-31677
Electronic 4-wheel drive control device
[NASA-TM-77618] 24 p3910 N84-34764

ROTATING SPHERES
Measurement of incidence angle dependence of solar absorptance — spacecraft materials
10 p1447 N84-19452
On the effect of using the Shapiro filter to smooth winds on a sphere 12 p1853 N84-22074

ROTATING STALLS
Flow mechanism and experimental investigation of a rotating stall in transonic compressors
[NASA-TM-77373] 06 p0782 N84-15122
Unsteady Flow in Turbomachines, volume 2
[VKI-LS-1984-02-VOL-2] 16 p2489 N84-25965
Structure of rotating stall cells. Part 1: Absolute motion 16 p2489 N84-25967
Numerical aspects of unsteady flow calculations
16 p2489 N84-25968
Structure of rotating stall cells. Part 2: Relative motion 16 p2490 N84-25970
Determination of the stable operating conditions of an axial flow compressor 16 p2490 N84-25971

ROTATING VEHICLES
U ROTATING BODIES
U VEHICLES

ROTATION
NT AUTOROTATION
NT COUNTER ROTATION
NT EARTH ROTATION
NT MOLECULAR ROTATION
NT MUON SPIN ROTATION
NT PLANETARY ROTATION

NT SATELLITE ROTATION
NT SOLAR ROTATION
NT STELLAR ROTATION
The effect of coordinate system rotation on spherical harmonic expansions: A numerical method
[AD-A131974] 03 p0425 N84-12785
An analysis of smooth and axially finned, rotating heat pipe condensers
[AD-A132141] 04 p0534 N84-13509
On the range of real coefficients of functions with bounded boundary rotation 04 p0575 N84-13789
Solution of the 2-point boundary value problems of optimal spacecraft rotational maneuvers
04 p0586 N84-13870
When is an internal rotation a vibration?
[AD-A132974] 05 p0744 N84-14890
The structure of turbulent entraining flow in an annulus with a rotating screen 06 p0832 N84-15418
All-fiber gyroscope with optical-Kerr-effect compensation 06 p0846 N84-15518
Numerical simulations of convectively excited gravity waves
[DE84-001867] 06 p0879 N84-15718
Rotational temperature measurements in free jet expansions of N2 using the electron beam fluorescence technique 07 p0984 N84-16976
Optimized rotary flux compressors for powering laser flashlamps
[DE84-002794] 07 p1010 N84-16555
An approach to rotation invariant texture classification and some experimental results
[AD-A134197] 07 p1061 N84-16881
Design report: Two axis rotational rate measurement system using rate gyros
[NIAST-83/08] 07 p1068 N84-16938
Improved turbulence models based on large eddy simulation of homogeneous, incompressible turbulent flows
[NASA-CR-166541] 08 p1156 N84-17528
Research on new approaches to optical systems for inertial rotation sensing
[AD-A136045] 09 p1254 N84-18186
Friction welding 09 p1292 N84-18436
Applications of natural constraints in critical point theory to boundary value problems on domains with rotation symmetry
[AD-A136404] 09 p1374 N84-18976
The elements of the rotation matrices in terms of Rodriguez's parameters
[AD-A136550] 09 p1376 N84-18988
Differential rotation of solar background magnetic fields during the 20th solar cycle 09 p1410 N84-19214
A topological version of a theorem of Mather on twist maps
[AD-A137950] 11 p1716 N84-21189
Extraction of rotation information from a simulated fiber optic gyro using amplitude modulation
[AD-A138092] 12 p1767 N84-21528
Repetitive switching for an electromagnetic rail gun
[AD-A138360] 12 p1812 N84-21814
The night airglow O2(1-Sigma) atmospheric band at 8645A and the rotational temperature observed at 23 deg S
[INPE-3021-PRE/459] 12 p1846 N84-22034
Energetics of vortex ring formation
[AD-A138795] 13 p1927 N84-22539
Effect of rotation on thermal state of runner blade through effect on heat transfer on coolant side
13 p1970 N84-22787
Sedimentary response to eocene tectonic rotation in western Oregon 13 p2013 N84-23063
Acoustic rotation control
[NASA-CASE-NPO-15689-1] 13 p2039 N84-23233
Decoupled control analysis of a large flexible space antenna with linear quadratic regulator comparisons
[NASA-TP-2293] 14 p2115 N84-23675
Analysis of lateral and torsional vibration characteristics of beams and shafts with end located rotational masses
[NASA-TM-84593] 17 p2679 N84-27065
Parallel scaled givens rotations for the solution of linear least squares problems
[AD-A140778] 17 p2758 N84-27512
Analysis of SSME HPOTP rotordynamics subsynchronous whirl
[NASA-CR-171094] 19 p2983 N84-28900
Remarks on the flow between two parallel rotating plates
[AD-A141582] 19 p3023 N84-29174
Steady-state solutions of propagating LIB with rotating motion
[IPPJ-672] 19 p3106 N84-29734
Seismic response for multicomponent earthquakes
[PB84-193747] 20 p3204 N84-30354
Singular value decomposition with systolic arrays
[NASA-CR-172396] 20 p3279 N84-30617
Rotation and impurity transport in a Tokamak plasma with directed neutral beam injection
[DE84-008014] 20 p3306 N84-30996
The effect of finite rotation on a problem in plastic deformation
[DE84-012627] 21 p3423 N84-31710
Measurement of turbulent wind velocities using a rotating boom apparatus
[DE84-012417] 21 p3448 N84-31875
Pulsed hydrogen-fluoride laser
[MRL-R-831] 22 p3600 N84-32603
Shaft positioning device
[AD-D011087] 22 p3605 N84-32636
Simplifications in the simulation of mechanisms containing flexible members 22 p3607 N84-32655
Basic principles and recent observations of rotationally sampled wind
[DE84-013267] 22 p3626 N84-32976
HII regions in the outer galaxy
23 p3838 N84-34345
Fiber optic rotation-sensing gyroscope with (3x2) coupler
[AD-D011195] 24 p3902 N84-34706
Mixed models and recugion techniques for large-rotation, nonlinear analysis of shells of revolution with application to tires
[NASA-TP-2343] 24 p3912 N84-34773
ROTATIONAL FLOW
U FLUID FLOW
U VORTICES
ROTOCHUTES
New, high performance rotating parachute — reentry vehicle recovery
[DE84-002362] 06 p0783 N84-15129
ROTOR AERODYNAMICS
Parametric tip effects for conformable rotor applications
[NASA-TM-85682] 01 p0094 N84-10609
Aeromechanical stability of a hingeless rotor in hover and forward flight: Analysis and wind tunnel tests
[NASA-TM-85683] 01 p0094 N84-10610
Estimated analysis of the aeroelastic behavior of tail rotors 02 p0172 N84-11129
The role of aeroelasticity in the preliminary design of helicopter rotors 02 p0172 N84-11130
Rotor/body aerodynamic interactions
[NASA-TM-85844] 02 p0174 N84-11143
Aeroelastic analysis for propellers - mathematical formulations and program user's manual
[NASA-CR-3729] 03 p0368 N84-12530
Preliminary results of the first static calibration of the RSRA helicopter active-isolator rotor balance system
[NASA-TM-84395] 04 p0483 N84-13178
The compressible aerodynamics of rotating blades based on an acoustic formulation
[NASA-TP-2197] 04 p0594 N84-13923
Aerodynamics and steam wetness fraction of a multistage turbine. Comparison of prediction with experimental data 06 p0840 N84-15475
A review of current research activity on the aerodynamics of axial flow turbines 06 p0841 N84-15480
Experimental determination of gap flow-conditioned forces at turbine stages and their effect on the running stability of simple rotors
[NASA-TM-77203] 06 p0852 N84-15553
Linear and nonlinear aspects of rotordynamics
06 p0929 N84-16034
The development of unsteady boundary layers on the rotor of an axial-flow turbine 07 p0956 N84-16197
Aerodynamic computation method of airfoil cascades subjected to viscous flow 07 p0956 N84-16198
Secondary flows and losses in a turbine cascade
07 p0956 N84-16203
Compressor rotor aerodynamics
07 p0958 N84-16210
Experimental verification of an endwall boundary layer prediction method 07 p0958 N84-16211
Investigation of flow phenomena in a transonic fan rotor using laser anemometry
[NASA-TM-83555] 08 p1098 N84-17143
Effects of different rub models on simulated rotor dynamics
[NASA-TP-2220] 08 p1166 N84-17590
Rotordynamic forces developed by labyrinth seals
[AD-A136217] 09 p1316 N84-18599
Stability problems of rotor systems
10 p1508 N84-19851
Mach number correlation for a two-dimensional helicopter rotor-blade analysis in the tip region
12 p1765 N84-21509
Identification of airfoil characteristics for optimum wind turbine performance 12 p1765 N84-21510
Study of stator-vane fluctuating pressures in a turbofan engine for static and flight tests
[NASA-TP-2217] 12 p1898 N84-22363
Nonlinear/transient rotor dynamics analysis
13 p2000 N84-22977
Flutter and forced response of mistuned rotors using standing wave analysis
[NASA-CR-173555] 15 p2262 N84-24586
Application of a quasi-3D inviscid flow and boundary layer analysis to the hub-shroud contouring of a radial turbine
[NASA-TM-83669] 16 p2439 N84-25647
Unsteady interactions in supersonic compressor stages 16 p2490 N84-25972
Acoustic design criteria and validation
19 p3096 N84-29663
Noise reduction techniques: Criteria and validation
19 p3096 N84-29664
A comparison of wind tunnels suitable for rotorcraft noise studies 19 p3096 N84-29665
Aeroelasticity in turbomachine-cascades
[AD-A141905] 20 p3131 N84-29680
Two-dimensional and quasi three-dimensional experimental standard configurations for aeroelastic investigations in turbomachine-cascades
[AD-A141904] 20 p3196 N84-30297
An integral equation for the solution of nonlinear wave equations 22 p3529 N84-32347
A mathematical simulation model of the CH-47B helicopter, volume 2
[NASA-TM-84351] 22 p3535 N84-32360
Studies in a transonic rotor aerodynamics and noise facility
[NASA-CR-166588] 22 p3538 N84-32399
Hover test of a full-scale hingeless rotor
[NASA-TM-85990] 23 p3692 N84-33401
Identification and verification of frequency-domain models for XV-15 tilt-rotor aircraft dynamics
[NASA-TM-86009] 24 p3858 N84-34445
A comparison of experimental and theoretical results for leakage, pressure distribution, and rotordynamic coefficients for annular gas seals
[NASA-CR-174000] 24 p3910 N84-34765
ROTOR BLADES
Preliminary results of the first static calibration of the RSRA helicopter active-isolator rotor balance system
[NASA-TM-84395] 04 p0483 N84-13178
The SARIB vibration absorber
[SNIAS-832-210-104] 16 p2502 N84-26058
An analysis of rotor blade twist variables associated with different Euler sequences and pretwist treatments
[NASA-TM-84394] 17 p2606 N84-26693
Aerodynamic predictions II 19 p3098 N84-29681
ROTOR BLADES (TURBOMACHINERY)
An experimental investigation of a free-tip rotor configuration in a forward flight wind-tunnel test
[NASA-TM-84409] 01 p0003 N84-10018
Application of an adaptive blade control algorithm to a gust alleviation system
[NASA-TM-85848] 01 p0012 N84-10079
Acoustic ranging technique with application to assessment of low-frequency acoustic noise of wind turbines
[DE83-009106] 01 p0140 N84-10921
Growian rotorblades: Production development, construction and test
[BMFT-FB-T-83-111] 02 p0233 N84-11526
NASTRAN flutter analysis of advanced turbopropellers
[NASA-CR-167926] 05 p0631 N84-14148
Forces on a whirling centrifugal pump-impeller
05 p0687 N84-14516
A method of calculating fully three dimensional inviscid flow through any type of turbomachine blade row
06 p0840 N84-15479
The development of unsteady boundary layers on the rotor of an axial-flow turbine 07 p0956 N84-16197
Effects of different rub models on simulated rotor dynamics
[NASA-TP-2220] 08 p1166 N84-17590
Numerical analysis of a variable camber rotor blade as a lift control device
[NASA-CR-173452] 12 p1769 N84-21538
Effect of a rotor wake on heat transfer from a circular cylinder
[NASA-TM-83613] 12 p1815 N84-21832
Investigation of the laminar turbulent boundary layer transition on the rotor blades of the 25 m wind turbine HAT
[VTH-LR-390] 12 p1817 N84-21844
Tip cap for a rotor blade
[NASA-CASE-LEW-13654-1] 13 p1931 N84-22560
Oxidizing seal for a turbine tip gas path
[NASA-CASE-LEW-14053-1] 13 p1932 N84-22563
Heat transfer in serpentine passages with turbulence promoters
[NASA-TM-83614] 13 p1989 N84-22911
Nonlinear/transient rotor dynamics analysis
13 p2000 N84-22977

Fan noise reduction achieved by removing tip flow irregularities behind the rotor - forward arc test configurations
[NASA-TM-83616] 13 p2040 N84-23235
A high temperature optical displacement measuring system — gas turbine blades
[PNR-90186] 13 p2044 N84-23261
Propeller and rotor noise testing in aeroacoustic wind tunnels 14 p2097 N84-23583
A flow visualisation study of tip vortex formation
[ARL-AERO-NOTE-421] 14 p2100 N84-23603
Behavior of cascaded airfoils under conditions of high mean loading and flow unsteadiness
[AD-A139799] 15 p2263 N84-24592
Examination of the final design of the rotor blades GROWIAN 1
[BMFT-FB-T-83-306] 15 p2362 N84-25174
Effects of unsteady free stream velocity and free stream turbulence on stagnation point heat transfer
[NASA-CR-3804] 16 p2486 N84-25943
Propeller noise at subsonic blade tip speeds, torque and thrust force
[ESA-TT-821] 16 p2554 N84-26385
Contribution to the study of light aircraft propeller noise
[AD-B073101] 16 p2554 N84-26386
Shapes for rotating airfoils
[NASA-CASE-LAR-12396-1] 19 p2956 N84-28732
Two-dimensional aerodynamic characteristics of three rotorcraft airfoils at Mach numbers from 0.35 to 0.90
[NASA-TP-2000] 19 p2957 N84-28743
Growian rotor blades: Production development, construction and test
[NASA-TM-77479] 19 p2965 N84-28793
The initial mechanical design of hot gas turbine blading using limited information
[PNR-90183] 19 p3032 N84-29234
Effect of vortex generators on the power conversion performance and structural dynamic loads of the Mod-2 wind turbine
[NASA-TM-83680] 19 p3049 N84-29347
Aeroelasticity in turbomachine-cascades
[AD-A141905] 20 p3131 N84-29880
Acoustic pressures emanating from a turbomachine stage
[NASA-TM-83734] 20 p3183 N84-30224
Two-dimensional and quasi three-dimensional experimental standard configurations for aeroelastic investigations in turbomachine-cascades
[AD-A141904] 20 p3196 N84-30297
Improved methods of vibration analysis of pretwisted, airfoil blades
[NASA-TM-83735] 20 p3200 N84-30329
Blade endwall flows in an axial flow compressor stage 21 p3343 N84-31209
Deposition of Na2SO4 from salt-seeded combustion gases of a high velocity burner rig
[NASA-TM-83751] 21 p3396 N84-31558
Positive displacement compounding of a heavy duty diesel engine
[NASA-CR-168286] 21 p3413 N84-31641
JT15D simulated flight data evaluation
[NASA-CR-172322] 22 p3536 N84-32387
Studies in a transonic rotor aerodynamics and noise facility
[NASA-CR-166588] 22 p3536 N84-32399
Preliminary design study of a higher harmonic blade feathering control system
[NASA-CR-159327] 23 p3695 N84-33418
Research study for effects of case flexibility on bearing loads and rotor stability
[NASA-CR-171147] 23 p3756 N84-33811
Development of a wind energy converter with single blade rotor
[BMFT-FB-T-84-114] 23 p3792 N84-34050

ROTOR DISKS
U TURBINE WHEELS

ROTOR HUBS
U HUBS
U ROTORS

ROTOR SPEED
Recent advances in variable speed electrical generator systems for large wind turbines
[DE84-001833] 06 p0830 N84-15404
Approach to solving problem of acoustic wave diffraction by elastic shell 13 p1973 N84-22804
High-speed noise of helicopter rotors 19 p3097 N84-29673

ROTOR SYSTEMS RESEARCH AIRCRAFT
Rotor systems research aircraft: Fixed-wing simulations results
[NASA-TM-85863] 04 p0483 N84-13176
Flight testing the Rotor Systems Research Aircraft (RSRA)
[NASA-TM-85852] 04 p0483 N84-13177
Preliminary results of the first static calibration of the RSRA helicopter active-isolator rotor balance system
[NASA-TM-84395] 04 p0483 N84-13178
Results of the first complete static calibration of the RSRA rotor-load-measurement system
[NASA-TP-2327] 21 p3328 N84-31111
NASA rotor system research aircraft flight-test data report: Helicopter and compound configuration
[NASA-TM-85843] 22 p3535 N84-32381

ROTORCRAFT
U ROTARY WING AIRCRAFT

ROTORCRAFT AIRCRAFT
Aerodynamic prediction I 19 p3096 N84-29680
A formulation of rotor-airframe coupling for design analysis of vibrations of helicopter airframes
[NASA-RP-1089] 23 p3760 N84-33832

ROTORS
NT BEARINGLESS ROTORS
NT CIRCULATION CONTROL ROTORS
NT COMPRESSOR ROTORS
NT FLYWHEELS
NT HELICOPTER TAIL ROTORS
NT IMPELLERS
NT PUMP IMPELLERS
NT RIGID ROTORS
NT ROTARY WINGS
NT TAIL ROTORS
NT TIP DRIVEN ROTORS
NT TURBINE WHEELS
NT X WING ROTORS
Self excited oscillations in journal bearings
[AD-A130200] 01 p0090 N84-10585
Permanent magnet generator rotor containment study
[AD-A131252] 01 p0138 N84-10908
Investigation of water rotor turbofans for Cruise Missile engines, volume 2
[AD-A131166] 02 p0180 N84-11173
Investigation of wave rotor turbofans for Cruise Missile engines, volume 1
[AD-A131167] 02 p0180 N84-11174
Flight testing the Rotor Systems Research Aircraft (RSRA)
[NASA-TM-85852] 04 p0483 N84-13177
Flywheel rotor and containment technology development, FY83
[DE83-017615] 04 p0545 N84-13589
La Recherche Aerospatiale, Bimonthly Bulletin, no. 1982-3, 208/May-June 1982
[ESA-TT-771] 04 p0593 N84-13916
The development of unsteady boundary layers on the rotor of an axial-flow turbine 07 p0956 N84-16197
A mathematical model for the doubly-fed wound rotor generator, part 2
[NASA-TM-83581] 08 p1149 N84-17479
Rotordynamic forces developed by labyrinth seals
[AD-A138217] 09 p1316 N84-18599
Satellite attitude stability provided by a rotor subjected to difficult operating conditions
[INPE-2747-PRE/323] 10 p1436 N84-19384
Effects of bearing deadbands on bearing loads and rotor stability
[NASA-CR-170986] 10 p1501 N84-19614
Unbalance response of a single mass rotor mounted on dissimilar hydrodynamic bearings 10 p1515 N84-19919
Ground effect on a rotor wake
[ISBN-0-902937-93-6] 11 p1601 N84-20484
An experimental study of the properties of surface pressure fluctuations in strong adverse pressure gradient turbulent boundary layers
[NASA-CR-175410] 11 p1601 N84-20488
The influence of gyroscopic forces on the dynamic behavior and flutter of rotating blades
[NASA-CR-175444] 11 p1608 N84-20524
Flywheel rotor and containment technology development
[DE84-005742] 11 p1665 N84-20864
Repetitive switching for an electromagnetic rail gun
[AD-A138960] 12 p1812 N84-21814
Matching wind turbine rotors and loads: Computational methods for designers
[DE84-006921] 12 p1843 N84-22019
Dual clearance squeeze film damper
[NASA-CASE-LEW-13506-1] 13 p1932 N84-22562
System for torque control of unbalanced rotor during passage through resonance 13 p1973 N84-22802
Approach to solving problem of acoustic wave diffraction by elastic shell 13 p1973 N84-22804
Balancing of flexible rotors with simultaneous precise determination of influencing factors 13 p1974 N84-22806
Wind power generation design considerations
[AD-A138841] 13 p2009 N84-23029
Performance and size estimating for wind systems
[DE84-006960] 13 p2009 N84-23033
Propeller and rotor noise testing in aeroacoustic wind tunnels 14 p2097 N84-23583
A principal rotor without joints and pillows, made of fiber materials, for dynamic systems of future helicopters
[MBB-UD-384-83-O] 16 p2562 N84-26440
Subharmonic vibrations of rotor mounted in rolling bearings 17 p2849 N84-28643
Current status of an organic Rankine cycle engine development program 18 p2872 N84-28230
Effect of vortex generators on the power conversion performance and structural dynamic loads of the Mod-2 wind turbine
[NASA-TM-83680] 19 p3049 N84-29347
Optimization of wind turbine design for SWECS
[DE84-009759] 19 p3051 N84-29363
Wind energy converter GROWIAN 2
[BMFT-FB-T-84-063] 19 p3051 N84-29364
Rotor noise prediction technology: Theoretical approach 19 p3096 N84-29678
Experiment versus theory 19 p3096 N84-29679
The Shock and Vibration Digest, volume 16, no. 7
[AD-A143958] 21 p3418 N84-31679
Literature review of tilting pad and turbulent hydrostatic journal bearings for nuclear main coolant pumps 21 p3418 N84-31680
Calculation of the pressure distribution on a pitching airfoil with application to the Darrieus rotor
[DE84-013571] 22 p3532 N84-32363
Altering the volumetric expansion ratio of a Lysholm helical screw expander
[DE84-013695] 22 p3564 N84-32573
Empirical modeling of a Lysholm helical screw expander
[DE84-013694] 22 p3564 N84-32574
Dynamics of angular movements of a solid supporting a rotating rotor with consideration of energy dissipation
[AD-A143349] 22 p3611 N84-32881

ROUGHNESS
NT SEA ROUGHNESS
NT SURFACE ROUGHNESS
Lubrication of engineering surfaces, phase 2
[DE84-005685] 11 p1665 N84-20863
Porous electrodes 1: Numerical simulation using random network and single pore models
[AD-A136362] 12 p1793 N84-21695
Conceptual experiments in transition to turbulence through combined visualization and hot-wire techniques
[AD-A142193] 19 p3024 N84-29181
Mechanical interactions of rough surfaces
[DE84-006589] 20 p3198 N84-30311

ROUTES
Asymptotic optimality of shortest path routing
[AD-A132260] 04 p0521 N84-13423
An approach for multilayer PCB (Printed circuit boards) design with automatic routing
[AD-A136072] 12 p1880 N84-22255
Monitoring of ship routes via satellite
[ESA-TT-842] 19 p2980 N84-28889
A route generator concept for aircraft onboard fault monitoring
[NASA-TM-86264] 21 p3326 N84-31104
Microcomputers in transportation: Software and source book
[PB84-195155] 22 p3638 N84-33067

RPV
U REMOTELY PILOTED VEHICLES

RUBBER
NT CHLOROPRENE RESINS
NT ELASTOMERS
NT LATEX
NT SILICONE RUBBER
NT SYNTHETIC RUBBERS
NT VULCANIZED ELASTOMERS
Rubber mixture softener: A product of thermal breakdown of substandard polysoprene
[CSIR-TRANS-1649] 01 p0048 N84-10311
Vulcanizate structure of isoprene chloroprene rubber combination
[CSIR-TRANS-1648] 01 p0048 N84-10312
Effect of molecular-structural characteristics of cis-1,4 polyisoprene on the melting temperature of the orientated crystaline phase
[CSIR-TRANS-1643] 01 p0152 N84-10999
Rubber removal from porous friction course
[FAA-PM-83-31] 02 p0182 N84-11184
Particle-tear energy contribution to the toughness of rubber-modified epoxies
[DE83-010396] 02 p0186 N84-11223
A finite element study of instabilities in rubber elasticity 02 p0199 N84-11293
Technical information concerning rubber cushion presses 02 p0206 N84-11346
Identification and characterization of elastomer vulcanizate materials using pyrolytic gas liquid phase chromatography
[AD-A134056] 05 p0658 N84-14325

Linear and nonlinear viscoelastic constitutive relations of cord reinforced elastomers
[DE84-002371] 05 p0660 N84-14338
Stability of a rubber half-space
[WTHD-159] 07 p0949 N84-16156
Development of criteria for the use of asphalt-rubber as a Stress-Absorbing Membrane Interlayer (SAMI)
[AD-A137412] 10 p1471 N84-19608
Effect of pressure on the static and dynamic acoustic properties of porous rubber
[AD-A136744] 13 p1963 N84-22756
Nonlinear vibrations of a rubber support system constrained by a fixed surface 15 p2313 N84-24878
Pressure induced radial diffusion of a fluid through a thick walled highly elastic cylinder
15 p2313 N84-24881
Attempt to study by ocular inspection the influence of rubber quality on the sealing effects of O-rings
[FOA-C-20526-E4] 16 p2498 N84-26030
Rubber to backing bond strength for stave bearings
[AD-A140513] 16 p2499 N84-26033
Studies on the insulation effect of rubber springs in complex structures in the acoustic frequency range
[BMFT-FB-HA-84-001] 19 p3037 N84-29264
USSR report: Chemistry
[JPRS-UCH-84-007] 24 p3857 N84-34508

RUBBER COATINGS
Reduction of propeller noise by a reflecting rubber layer — ship propellers
[FOA-C-20506-E4] 08 p1228 N84-18025

RUBIDIUM
NT RUBIDIUM ISOTOPES
Piston-displacement equations of state for sodium, potassium, and rubidium metals to 20 kbar from 300 K to 4 K
[DE83-018079] 03 p0347 N84-12252
Phonon dispersion of transverse basal-plane modes in alkali-graphite compounds
[DE83-003910] 03 p0350 N84-12273
Equations of state for the alkali metals, with generalizations to NaCl
[DE83-018075] 03 p0351 N84-12280
Rubidium frequency standard study
[AD-A134713] 08 p1151 N84-17492
Frequency stability analysis of GPS (Global Positioning System) NAVSTARs 3 and 4 rubidium clocks and the NAVSTARs 5 and 6 cesium clocks
[AD-A137376] 10 p1425 N84-19316
Standard Reference Materials (SRM) 1969: Rubidium triple-point standard: A temperature reference standard near 39.30C
[PB84-149998] 14 p2149 N84-23876

RUBIDIUM COMPOUNDS
Intercalate phonon densities of states for alkali-graphite compounds
[DE83-016515] 02 p0188 N84-11225
Electrochemical and spectroscopic studies of polypyridine complexes of Fe(2)/(3) and Ru(2)/(3) in the aluminum chloride: N-(1-Butyl)Pyridinium chloride molten salt
[AD-A139170] 14 p2122 N84-23715

RUBIDIUM ISOTOPES
Atomic-beam density determination from laser-induced fluorescence interval distributions
[DE84-000677] 04 p0542 N84-13571

RUBY
New sapphire and ruby components and their manufacture using diamond abrasives
[CSIR-TRANS-1734] 21 p3375 N84-31419

RUBY LASERS
Beam processing for high-efficiency Si solar cells
[DE84-002059] 06 p0674 N84-15890
Measurements of CARS intensity in hydrogen molecule behind shock waves 07 p0984 N84-16375
Laser light scattering at the POSEIDON plasma focus device 10 p1584 N84-20384
IRIS pulsing ruby light source
21 p3482 N84-32066

RUDDERS
NT AERIAL RUDDERS
Effect of thrust reverser operation on the lateral-directional characteristics of a three-surface F-15 model at transonic speeds
[NASA-TP-2234] 04 p0481 N84-13165

RULES
NT INSTRUMENT FLIGHT RULES
NT PALMGREN-MINER RULE
NT VISUAL FLIGHT RULES
A study of conference publication records in OCLC: Some implications for the formulation and application of cataloging rules 16 p2566 N84-26464

RUMANIA
U ROMANIA

RUN TIME (COMPUTERS)
Concurrent Pascal for RSX-11M
[HEDL-TME-82-46] 01 p0120 N84-10777
Trends in computational capabilities for fluid dynamics
[NASA-TM-86012] 23 p3689 N84-33383

RUNGE-KUTTA METHOD
Partitioned Runge-Kutta procedures for numerical solution for nonstiff and stiff initial value problems
[TUM-M8304] 02 p0279 N84-11828
Interpolation for Runge-Kutta methods
[DE84-006455] 11 p1716 N84-21193
Local error estimating by doubling
[DE84-010107] 15 p2363 N84-25180
Stability of explicit Runge-Kutta methods
[DE84-006902] 19 p3090 N84-29621
Acceleration to a steady state for the Euler equations
[NASA-CR-172398] 20 p3126 N84-29652
Two-dimensional vapor flow analysis in heat pipes
[DE84-012581] 21 p3402 N84-31582
Flux-vector splitting and Runge-Kutta methods for the Euler equations
[NASA-CR-172415] 21 p3470 N84-31993
Some practical Runge-Kutta formulas
[DE84-013539] 22 p3646 N84-33123

RUNNING
Evaluation of energy characteristics of bipedal walking and running by model analysis 17 p2649 N84-26941

RUNOFFS
U DRAINAGE

RUNWAY CONDITIONS
Results from wind tunnel and artificial rainfall tests of the modified scan sensor
[AD-A133238] 06 p0792 N84-15162
Warm fog dissipation using large volume water sprays
[NASA-CASE-MFS-25962-1] 22 p3538 N84-32396
Aircraft tests in the clearance program for the use of a combat aircraft from a runway after damage repair
24 p3848 N84-34404

RUNWAY LIGHTS
Evalution of retroreflective pavement markers for precision and nonprecision runways
[FAA-CT-82-164] 02 p0182 N84-11182
Marking and lighting of unpaved runways - inservice testing
[AD-A140958] 18 p2797 N84-27751
Identification of exit taxiways (retroflective markers only)
[FAA-CT-83-5] 19 p2969 N84-28812

RUNWAYS
Improved acrylic systems for rapid runway repair
[AD-A130388] 01 p0016 N84-10103
Ultraviolet curable resin system for rapid runway repair
[AD-A130364] 01 p0016 N84-10104
The effects of weather on rapid runway repair, volume 2
[AD-A130350] 01 p0016 N84-10105
Relative-datum Loran navigation
02 p0168 N84-11107
Optimization of long range major rehabilitation of airfield pavements 02 p0182 N84-11181
Rubber removal from porous friction course
[FAA-PM-83-31] 02 p0182 N84-11184
Determination of the Pavement Classification Number (PCN) of airfields
[ISBN-3-87977-0530] 02 p0182 N84-11185
Rapid runway repair program subtask 1.07 - rapid concrete cutting
[AD-A131771] 03 p0338 N84-12195
Chemical stabilization of subgrade soil for the strategic expeditionary landing field
[AD-A132876] 05 p0663 N84-14356
Aircraft operations from airfields with special unconventional characteristics 06 p0776 N84-15085
Investigation of the FAA overlay design procedures for rigid pavements
[AD-A135317] 09 p1259 N84-18222
Development of criteria for the use of asphalt-rubber as a Stress-Absorbing Membrane Interlayer (SAMI)
[AD-A137412] 10 p1471 N84-19608
Development of probabilistic rigid pavement design methodologies for military airfields
[AD-A138212] 12 p1804 N84-21760
FY85 technical objectives document
[AD-A137987] 12 p1917 N84-22493
Heat: Initiated furan resin for rapid runway repair
[AD-A140902] 17 p2611 N84-26713
Marking and lighting of unpaved runways - inservice testing
[AD-A140958] 18 p2797 N84-27751
Analytical and experimental study of grooved pavement runoff
[AD-A141021] 18 p2798 N84-27752
Response and performance of contingency airfield pavements containing stabilized material layers
[AD-A141466] 19 p2969 N84-28817
Bomb damage repair: Precast slab design
[AD-A141687] 19 p2970 N84-28819
Warm fog dissipation using large volume water sprays
[NASA-CASE-MFS-25962-1] 22 p3538 N84-32396
Modified reflex-percussive grooves for runways
[AD-A143589] 22 p3538 N84-32400
Airport safety technology: Washington National Airport
[GPO-34-406] 23 p3696 N84-33423
Airplane take-off system
[AD-D011204] 24 p3856 N84-34449
Mechanistic methodology for airport pavement design with engineering fabrics. Volume 1: Theoretical and experimental base
[DOT/FAA/PM-84-9.1] 24 p3857 N84-34450
Evaluation of the pavement condition index for use on porous friction surfaces
[AD-A144521] 24 p3857 N84-34453

RUPTURING
Statistical analysis of Kevlar 49/epoxy composite stress-rupture data
[DE84-000516] 04 p0492 N84-13230
Mechanisms of elevated-temperature rupture in single-phase ceramics
[DE83-017779] 04 p0508 N84-13327
Mechanical and transport properties of rocks at high temperatures and pressures. Task 3. Mechanical properties of rocks at high temperatures and pressures
[DE84-003438] 08 p1188 N84-17740
A simple approach for determination of bursting pressure of a thick-walled cylinder
[AD-P002956] 14 p2199 N84-24196
Measurement of hydrogen in high strength steels using the barnacle electrode
[AD-A139655] 15 p2237 N84-24784
Creep-rupture behavior of candidate Stirling engine iron superalloys in high-pressure hydrogen. Volume 2: Hydrogen creep-rupture behavior
[NASA-CR-174705] 19 p2992 N84-28961
Probabilistic models of the stress-rupture of composite materials: Summary
[DE84-013477] 22 p3545 N84-32441

RURAL AREAS
Mobile radio alternative systems study. Volume 1: Traffic model
[NASA-CR-168062] 01 p0061 N84-10402
Mobile radio alternative systems study. Volume 2: Terrestrial — rural areas
[NASA-CR-168063] 01 p0061 N84-10403
Rural land mobile radio market assessment and satellite and terrestrial system concepts
[NASA-TM-83591] 10 p1476 N84-19641
On-site analysis to assess the feasibility of wind power
[DE84-009762] 20 p3247 N84-30606

RURAL LAND USE
Evaluating proposed improvements of public rangelands
[PB83-251124] 04 p0556 N84-13669
Digital processing of LANDSAT data for the preparation of a land use map of the rural district surrounding Tuebingen to a scale of 1:50000
[ESA-TT-816] 16 p2509 N84-26104

RUTHENIUM
Organometallics in high energy chemistry
[AD-A135715] 09 p1275 N84-18323
Fundamental research for production of high polymers on synthesis gas basis
[BMFT-FB-T-84-075] 19 p3001 N84-29016

RUTHENIUM COMPOUNDS
Inorganic chemistry 06 p0797 N84-15192
Use of a polyacetylene cathode in primary lithium-thionyl chloride cells
[AD-A136791] 13 p1966 N84-22896

RUTILE
X-ray diffraction line-broadening studies on shock-loaded TiO-2 and Al2O-3
[DE83-016161] 05 p0755 N84-14955
Trichite growth during oxidation of titanium and TA6V4 alloy by water vapor at high temperatures
[NASA-TM-76974] 06 p0805 N84-15248
Metallic microwave conductivity in shock-loaded rutile
[DE84-002174] 08 p1235 N84-18075
Fast diffusion of iron in single crystal rutile and iron doped rutile
[DE84-004021] 08 p1236 N84-18079

RYDBERG SERIES
Fragmentation of small molecules following soft X-ray excitation
[DE83-011645] 02 p0289 N84-11896
COCHISE observations of Argon Rydberg emission from 2 to 16 micrometers
[AD-A137916] 11 p1732 N84-21296
Photoelectron studies of excited molecular states: H2 C (1)Pi(sub u) and N2 o3 (1)Pi(sub u)
[DE84-006663] 20 p3294 N84-30917
Photoionization of excited molecular states using multiphoton excitation techniques
[DE84-004034] 20 p3296 N84-30925
Atomic resonance and scattering
22 p3681 N84-33339

S

S BAND
U SUPERHIGH FREQUENCIES
U ULTRAHIGH FREQUENCIES
S CURVES
Developing flow in S-shaped ducts. 2: Circular cross-section duct
[NASA-CR-3759] 09 p1312 N84-18572
S MATRIX THEORY
Considerations of the three-wave interactions
[IPPJ-541] 03 p0444 N84-12915
Applications of Non-Self-Adjoint operator theory to the Singularity Expansion Method (SEM) and to the Eigenmode Expansion Method (EEM) in acoustic and electromagnetic problems
[AD-A135177] 06 p1219 N84-17955
Polarimetric principles and techniques
[AD-A139252] 12 p1805 N84-21766
Contributions to the computation of the matrix exponential, revision
[AD-A140069] 15 p2396 N84-25392
S STARS
NT CARBON STARS
NT GIANT STARS
NT RED GIANT STARS
S WAVES
Effects of rigid inclusions on wave propagation
[AD-A131366] 02 p0209 N84-11366
Sputtered C-axis inclined piezoelectric films and shear-wave resonators
[DE83-017253] 03 p0455 N84-12997
Acoustoelasticity: Scanning with shear waves
05 p0695 N84-14560
Inverse torsional Eigenvalue problems — reconstruct the S-wave velocity of the Earth
[DE84-002568] 05 p0704 N84-14621
An experimental and numerical investigation of pressure-shear waves in 6061-T6 aluminum and alpha-titanium
08 p1129 N84-17345
Surface wave tomography
[NASA-CR-175373] 08 p1186 N84-17728
Mechanical details of a modified Hamilton Frame velocimeter
[AD-A136180] 09 p1318 N84-18613
The influence of stress on the principal polarisation directions of ultrasonic shear waves in textured steel plates
[AERE-R-11078] 18 p2854 N84-28124
Residual stress measurements using shear-horizontal waves from electromagnetic acoustic transducers
[PB84-190636] 20 p3176 N84-30171
Experimental observation of the shear Alfven resonance in a Tokamak
[DE84-012993] 20 p3306 N84-30998
The shear wave velocity structure of the lithosphere in central and northern California 23 p3795 N84-34083
Applications of teleseismic body waves to shallow Earth structure 23 p3795 N84-34084
S-A-W DEVICES
U SURFACE ACOUSTIC WAVE DEVICES
S-N DIAGRAMS
Comparison of fatigue life prediction based on local strains and nominal stresses respectively — metal fatigue
[LBF-FB-169(183)] 10 p1518 N84-19937
S-3 AIRCRAFT
Development of lateral-directional equivalent system models for selected U.S. Navy tactical aircraft
[AD-A141672] 19 p2968 N84-28810
SAAB AIRCRAFT
Theoretical evaluation of the structural performance of Swedish fighter aircraft windshields subjected to bird impact
[AD-P003235] 17 p2597 N84-26648
SABOT PROJECTILES
Capabilities of the NRCC/NAE flight impact simulator facility
[AD-A130849] 06 p0784 N84-15136
Non-linear transient response of flat plate to air shock wave
[AD-A140491] 16 p2503 N84-26063
Plastic rotating bands, obturators and sabots — obturators and sabots
[FOA-C-20534-D2] 19 p2996 N84-28985
SACCHARIDES
U CARBOHYDRATES
SACCHAROMYCES
Nutritional and environmental factors in ethanol fermentation by Saccharomyces cerevisiae
[DE84-009693] 20 p3167 N84-30110
SACRAMENTO VALLEY (CA)
LANDSAT-D thematic mapper image dimensionality reduction and geometric correction accuracy
[E84-10011] 02 p0236 N84-11549
SADDLE POINTS
Analytical study of the twin-jet shielding
[NASA-CR-175357] 07 p1069 N84-16943
SADDLES (SUPPORTS)
Horizontal cylindrical vessels supported by saddles subjected to vertical and lateral force fields
22 p3608 N84-32858
SAFETY
NT AEROSPACE SAFETY
NT AIRCRAFT SAFETY
NT FLIGHT SAFETY
NT INDUSTRIAL SAFETY
NT RANGE SAFETY
NT REACTOR SAFETY
Data analysis of the LLNL hydrogen igniter experiments
[DE83-010260] 01 p0037 N84-10236
Direct comparison of intuitive, quasi-rational and analytical cognition
[AD-A130273] 01 p0116 N84-10751
Controls, Displays, and Information Transfer for General Aviation IFR Operations
[NASA-CP-2279] 03 p0311 N84-12029
Single pilot IFR program overview and status
03 p0311 N84-12030
Analysis of general aviation single-pilot IFR incident data obtained from the NASA Aviation Safety Reporting System 03 p0312 N84-12033
A summary and integration of research concerning single pilot IFR operational problems 03 p0312 N84-12034
Safety report: General aviation crashworthiness project, phase 1
[PB83-917004] 03 p0328 N84-12142
A study on sound guidance for evacuation: Effect of megaphoned evacuation guidance in smoke
04 p0512 N84-13356
Slippery versus slip resistant work surfaces: The background for a regulatory definition
[PB83-243634] 04 p0516 N84-13392
Safety studies on Li/SOCl-2 reserve battery
[AD-A132279] 04 p0526 N84-13458
Annotated bibliography of battery evaluations
[DE84-000653] 04 p0527 N84-13466
Alternative gaseous-fuels safety assessment
[DE84-001735] 05 p0662 N84-14350
Aerodynamics, aeroelasticity, and stability of hang gliders 06 p0784 N84-15134
Electromagnetic propulsion test facility
[NASA-TM-83568] 07 p0961 N84-16229
Task conditions versus stable individual differences as determinants of experts' judgement policies
[AD-A134797] 08 p1203 N84-17841
Electrical-shock prevention. Volume 2: Ground-fault interrupting devices
[PB84-102953] 08 p1206 N84-17866
Electrical-shock prevention. Volume 4: Overhead-line contact fatalities
[PB84-102979] 08 p1207 N84-17868
Cable fire studies using the Ohio State University release rate apparatus 11 p1726 N84-21261
Overall fire safer 11 p1727 N84-21264
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-3] 13 p1961 N84-22745
Aircraft accident report. Eastern Air Lines, Incorporated, Lockheed L-1011, N334EA, Miami International Airport, Miami, Florida, May 5, 1983
[NTSB-AAR-84-04] 14 p2103 N84-23613
Prolonged heavy vehicle driving performance: Effects of unpredictable shift onset and duration and convoy versus independent driving conditions
[AD-A139747] 15 p2384 N84-25298
Statistical review of alcohol-involved aviation accidents
[NTSB-SS-84-03] 16 p2445 N84-25681
The development of the Navy variant of the Dauphin 2 helicopter
[SNIAS-832-210-106] 16 p2448 N84-25706
Testing of turboshaft engines
16 p2453 N84-25729
Accident surrogates for use in analyzing highway safety hazards. Volume 1: Executive summary
[PB84-174739] 16 p2477 N84-25883
Accident surrogates for use in analyzing highway safety hazards, volume 2
[PB84-174747] 16 p2478 N84-25884
Accident surrogates for use in analyzing highway safety hazards. Volume 3: Appendices A-G
[PB84-174754] 16 p2478 N84-25885
Cleared for the visual approach: Human factor problems in air carrier operations
[NASA-CR-166573] 17 p2603 N84-26679
Evaluation of 95 gpm inductors for aqueous film forming foam
[AD-A141242] 18 p2818 N84-27894
Safety training priorities
[AD-A141711] 19 p3002 N84-29026
Path relaxation: Path planning for a mobile robot
[AD-A141779] 19 p3032 N84-29229
Guidelines for assessment and control of noise
19 p3070 N84-29477
Design of a safety monitor system for high explosives machining
[DE84-010101] 20 p3168 N84-30113
Application of TOS/AMS to TDRS E and F
[NASA-CR-171124] 21 p3346 N84-31225
Innovations in cosmonaut medical monitoring, physical conditioning 21 p3347 N84-31229
DC wiring system grounding and ground fault protection issues for central station photovoltaic power plants
22 p3584 N84-32695
Electrical safety for high voltage arrays
22 p3584 N84-32697
Evaluation and control of laser hazards
22 p3632 N84-33018
System operations, book 6
[NAS 1.15:86652-BK-6] 23 p3699 N84-33442
Performance and safety characteristics of lithium-molybdenum disulfide cells
23 p3736 N84-33672
Reserve Li/SOCl2 battery safety testing
23 p3736 N84-33678
Performance and safety to NAVSEA instruction 9310.1A of lithium-thionyl chloride reserve batteries
23 p3737 N84-33679
Shunt diode designs in Li/CF Shuttle batteries
23 p3737 N84-33681
Battery safety procedures for surface-mining equipment
[LC-84-600162] 23 p3741 N84-33713
Nickel-iron battery system safety
[NASA-CR-173962] 23 p3744 N84-33733
Nickel-iron battery system safety
[NASA-CR-173937] 23 p3790 N84-34035
SAFETY DEVICES
NT AIR BAG RESTRAINT DEVICES
NT EJECTION SEATS
NT ESCAPE ROCKETS
NT FLYING EJECTION SEATS
NT HELMETS
NT SEAT BELTS
NT SPACE SUITS
Proceedings of the 6th Joint Panel Meeting: UJNR Panel on Fire Research and Safety 04 p0510 N84-13341
Sprinklers 04 p0510 N84-13345
Automatic sprinklers 04 p0510 N84-13346
Building systems and smoke control
04 p0511 N84-13347
An automated stall-speed warning system
[NASA-TM-84917] 11 p1607 N84-20520
Protection equipment against high velocity ejections — pilot ejection
[STPA/CIN-6] 18 p2790 N84-27705
SAFETY FACTORS
Microwaves, hyperthermia, and human leukocyte function
[PB83-225375] 01 p0115 N84-10746
US weather satellites and services
[GPO-25-753] 03 p0340 N84-12208
Radio-frequency detonation hazards: Multiple-transmission safety assessment of a detonator loop that may be resonant
[BBC-RD-1983/11] 05 p0666 N84-14380
Emission-proof valves — for chemical plants
[BMFT-FB-HA-83-028] 10 p1503 N84-19822
Materials implications of advanced thermal and kinetic energy threats 10 p1506 N84-19872
Safety standards on small passenger aircraft with nine or fewer seats are significantly less stringent than on larger aircraft
[PB84-142033] 12 p1767 N84-21526
Guide for designing pyrotechnics systems for payloads on manned or unmanned vehicles
[SNIAS-NT-2-01(0)] 12 p1803 N84-21757
Space nuclear safety program
[DE84-003558] 12 p1904 N84-22398
Device and method for frictionally testing materials for ignitability
[NASA-CASE-MSC-20622-1] 13 p1937 N84-22596
Nondestructive Evaluation Technology Working Group report (IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability study)
[AD-A139484] 14 p2156 N84-23919
Safety in the handling of rocket motors
[INPE-3033-NTE/214] 17 p2616 N84-26745
System safety in aircraft acquisition
[AD-A141492] 19 p2960 N84-28763
The changing airline industry: A status report through 1982
[GAO/RCED-83-179] 20 p3127 N84-29658

SAFETY MANAGEMENT
Symposium on Heat Pumps per DIN 8900
[BLL-TRANS-T5843/BG-MRS1796-82] 01 p0076 N84-10500
Aircraft maintenance and fire
[GPO-24-247] 02 p0169 N84-11112
Technology of airport safety
[GPO-24-762] 02 p0182 N84-11183
Old explosives facilities need love (safety analyses) too
[DE83-014447] 02 p0205 N84-11334
Building systems and smoke control 04 p0511 N84-13348
Present state of research in Japan on toxicities of gases during fire 04 p0511 N84-13349
Smoke inhalation injury 04 p0511 N84-13350
Human behavior 04 p0511 N84-13351
Recent Japanese progress in fire modeling 04 p0511 N84-13353
Programmer's manual for the fire safety evaluation system cost minimizer computer program
[PB83-251447] 04 p0517 N84-13395
Reducing risk in seaways — around the British Isles 08 p1102 N84-17163
DOE explosives safety manual: Revision 1
[DE84-004295] 11 p1639 N84-20714
Safety recommendations A-84-12 and -13 16 p2444 N84-25677
Safety assurance of ESA spacecraft and associated equipment
[ESA-PSS-01-40-ISSUE-1] 16 p2500 N84-26039
Railroad safety program, task 2
[NASA-CR-173598] 16 p2569 N84-26483
Evaluation of surface storage facilities for explosives, blasting agents and other explosive materials
[PB84-166392] 17 p2639 N84-26886
Safety-related requirements for photovoltaic modules and arrays
[NASA-CR-173747] 18 p2868 N84-28206
Safety study: Airport certification and operations
[PB84-917002] 19 p2960 N84-28761
Report to Congress on the effectiveness of the Civil Aviation Security Program
[AD-A143023] 21 p3326 N84-31103
Preliminary engineering report for design of a subscale ejector/diffuser system for high expansion ratio space engine testing
[NASA-CR-171137] 21 p3354 N84-31273
Reentry analysis
[DE84-012640] 21 p3498 N84-32167
SAHARA DESERT (AFRICA)
Substance geology of the western desert in Egypt and Sudan revealed by Shuttle Imaging Radar (SIR-A) 07 p0967 N84-16392
Albedo of the Sahara 10 p1534 N84-20052
The sensitivity of a general circulation model to Saharan dust heating 12 p1858 N84-22106
Eolian quartz granulometry as a paleowind indicator in the Northeast Equatorial Atlantic, North Pacific and Southeast Equatorial Pacific 23 p3796 N84-34069
Are droughts predictable?
[INPE-3274-PRE/598] 24 p3923 N84-34826
SAILPLANES
U GLIDERS
SAILS
NT SOLAR SAILS
International aviation (selected articles)
[AD-A140695] 17 p2601 N84-26571
SALINITY
Development of a point-electrode conductivity salinometer with high-spatial-resolution for use in very-saline solutions
[DE83-011170] 01 p0085 N84-10550
The CTD data collected in the Rockall trough on RRS Shackleton Cruise 5c/78 during JASIN 1978 — salinity, temperature, depth (CTD); air sea interaction (JASIN)
[IOS-147] 02 p0258 N84-11691
Long SeaSoar CTD sections in the northeast Atlantic Ocean collected during RRS Discovery Cruise 116 — salinity, temperature, depth (CTD)
[IOS-148] 02 p0258 N84-11692
On the functional dependence of the freezing point of soils on the composition of water soluble salts in an interstitial solution
[NRC/CNR-TT-2070] 06 p0677 N84-15707
Physical oceanography report STD data from drifting ice station Fram 1
[AD-A134244] 08 p1196 N84-17797
Hydrographic station data of five surveys of the beta-triangle in the eastern North Atlantic, 1978 - 1981
[PB84-100874] 08 p1196 N84-17800
NODC (National Oceanographic Data Center) inventory of XBT data along transects in U.S. Atlantic and Gulf coastal waters from NMFS/MARD ship of opportunity program for 1981
[PB84-122662] 08 p1197 N84-17802
Observations of surface water temperature and salinity in the Eastern part of the East Scheldt from 1921 until present
[KNMI-TR-40(FM)] 10 p1526 N84-19999
Observations of surface water temperature and salinity in the East Scheldt during the period 1894-1982
[KNMI-WR-83-12(FM)] 10 p1540 N84-20094
Satellite observations of fronts and frontal meanders in the Central North Pacific Ocean 11 p1671 N84-20903
An experimental study of cylindrical antennas radiating in or near a lossy half space
[AD-A136206] 12 p1807 N84-21779
Airborne lidar for oceanography and hydrology (FLOH)
[ESA-TT-799] 13 p1996 N84-22955
Salts in the dry valleys of Antartica 13 p2085 N84-23510
Characteristics of snow cover on sea ice and formation of snow ice 15 p2354 N84-25126
Artificial upwelling driven by salinity differences in the ocean
[DE84-000086] 15 p2374 N84-25244
The rapid sampling vertical profiler MILDEX, October-November 1983
[AD-A140965] 18 p2892 N84-28356
Long-term salinity, temperature and current measurements in upper Chesapeake Bay
[PB84-180280] 20 p3251 N84-30636
Salinity and temperature effects on photosynthesis and organic carbon release rates by selected benthic macroalgae
[PB84-163146] 20 p3257 N84-30674
Hydrographic measurements in the western Arboran Sea, October 1982
[AD-A143588] 22 p3627 N84-32985
SALIVA
Stress biochemistry: Non-invasive measurement techniques in military subjects
[AD-A141598] 19 p3065 N84-29447
SALMONELLA
Genetic control and phenotypic correction of cellular immune response to H-antigen of Salmonella typhimurium 17 p2740 N84-27400
Biological effects of millimeter-wave irradiation: Living bacterial organisms
[AD-A142474] 20 p3256 N84-30670
SALT BATHS
Fluidized-bed and salt-bath heat treating (AISI 4130 and 4340 alloy steels)
[DE84-000979] 04 p0502 N84-13290
Electrodeposition method
[BLL-OA-TRANS-3134-(6196.3)] 08 p1128 N84-17337
Aluminum-manganese plating from a molten salt bath
[AD-A135240] 08 p1131 N84-17356
Rotating cathode device for molten salt bath — to prepare metallic titanium or aluminum
[BLL-OA-TRANS-3173-(6196.3)] 09 p1317 N84-18604
SALT BEDS
Major salt beds of the Palo Duro and Dalhart Basins, Texas
[DE84-005255] 12 p1837 N84-21973
Deformation of the subsurface silurian and devonian rocks of the southern tier of New York State 23 p3795 N84-34067
SALT FLATS
U FLATS (LANDFORMS)
SALT SPRAY TESTS
Cadmium plating versus other coatings to prevent corrosion
[AD-A142504] 20 p3153 N84-30022
SALTON SEA (CA)
An analysis LANDSAT-4 Thematic Mapper geometric properties 20 p3210 N84-30392
Proposed scientific activities for the Salton Sea scientific drilling project
[DE84-012256] 20 p3243 N84-30586
SALTS
Thermal and electric energy and desalination with a salt gradient solar pond
[DE84-900416] 08 p1181 N84-17691
Sea salt aerosol, atmospheric radon and meteorological observations in the western South Atlantic Ocean (February 1981)
[AD-A134792] 08 p1195 N84-17794
Exciplex ionic dissociation in non-polar solvent induced by multipolar salt complexes
[AD-A140919] 17 p2620 N84-26766
SALYUT SPACE STATION
Gravitational orientation of the orbital complex, Salyut-6–Soyuz
[NASA-TM-77299] 07 p0961 N84-16228
Mental status and work capacity of Salyut-6 station crew members 07 p1044 N84-16773
USSR report: Space
[JPRS-USP-84-001] 09 p1263 N84-18247
Manned flight chronology 09 p1263 N84-18248
PIRAMIG and PGN experiments 09 p1263 N84-18249
Biomedical experiments on Soviet-French flight 09 p1264 N84-18254
Development of space botany experiments 09 p1264 N84-18255
Lyakhov and Aleksandrov work with Pion experiment on Salyut-7 12 p1774 N84-21567
Materials study experiments with Elektrotopograf on Salyut-7 12 p1774 N84-21568
Cosmonauts evaluate color results from Elektrotopograf experiment 12 p1774 N84-21569
Results from first series of Elektrotopograf experiments 12 p1774 N84-21570
Discussion of cosmonaut EVA for solar battery installation 12 p1774 N84-21571
Details of cosmonauts' installation of solar batteries 12 p1774 N84-21572
Flight director Ryumin on achievements of Soyuz T-9 flight 12 p1774 N84-21574
Techniques and instruments for cosmonaut remote sensing 12 p1775 N84-21575
USSR report: Space Biology and Aerospace Medicine, volume 18, no. 2, March - April 1984
[JPRS-USB-84-004] 15 p2374 N84-25247
Main results of medical studies on Salyut-6--Soyuz program 15 p2375 N84-25249
Blood plasma amino acid levels in cosmonauts before and after 175-day mission aboard Salyut-6 15 p2375 N84-25250
Evaluation of changes in human axial skeletal bone structures during long-term spaceflights 15 p2375 N84-25251
Sanitary and hygienic features of cabin environment in Salyut-7 orbital station 15 p2375 N84-25253
Manned flight chronology 19 p2970 N84-28824
Goals of cosmonaut At'kov's medical studies on 'Salyut-7' 19 p2971 N84-28827
Soyuz T-10 docks with 'Salyut-7' 19 p2971 N84-28828
Changes in 'Soyuz T-10' crew work schedule 19 p2971 N84-28829
Cosmonauts begin research program on 'Salyut-7' 19 p2971 N84-28830
Docking of 'Progress-19', mapping and survey work 19 p2971 N84-28831
Comet studies, medical research on 'Salyut-7' 19 p2971 N84-28832
Feoktistov: Space program ready for manufacturing shops in orbit 19 p2971 N84-28833
Deputy flight director Blagov on 211-day flight of Berezovoy and Lebedev 19 p2971 N84-28834
Food specialists discuss cosmonaut diet 19 p2971 N84-28835
Night landing of 'Soyuz-23' cosmonauts in Lake Tengiz recounted 19 p2972 N84-28837
Development of space holography 19 p2972 N84-28839
Salyut: Soviet steps toward permanent human presence in space
[PB84-181437] 20 p3135 N84-29905
USSR report: Space
[JPRS-USP-84-004] 21 p3347 N84-31228
Innovations in cosmonaut medical monitoring, physical conditioning 21 p3347 N84-31229
Medical research in first 100 days of Salyut-7 flight 21 p3347 N84-31230
Cosmonaut Berezovoy's memoirs on 211-day spaceflight 21 p3347 N84-31231
Excerpt from cosmonaut Aleksandrov's flight diary 21 p3347 N84-31232
Azerbaijan Institute develops subsatellite measurement systems 21 p3348 N84-31238
SAMARIUM
Installation of electric generators on turbine engines 01 p0010 N84-10061
Phase transformations and coercive force of alloys based on the compound SmCo5
[BLL-M-35117-(5828.4)] 01 p0040 N84-10255
Grain size in sintered samarium-cobalt alloys and their coercive force
[BLL-M-35406(5826.4)] 09 p1281 N84-18365
SAMARIUM COMPOUNDS
Anisotropy and microstructure of Sm2(Co, Fe, Cu, Zr)17 magnetic materials
[AD-A131961] 03 p0352 N84-12291
Method of directly crystallizing a (Sm + Tl):Fe = 1:5 compound
[AD-D011061] 23 p3830 N84-34291
SAMPLED DATA
U DATA SAMPLING
SAMPLED DATA SYSTEMS
U DATA SAMPLING

SAMPLERS
Optical multiple sample vacuum integrating sphere
[NASA-CASE-GSC-12849-1] 06 p0917 N84-15960
A procedure for investigating the composition of the plasma arc
[BLL-M-35454-(5828.4)] 09 p1391 N84-19083
Precision manipulator heating and cooling apparatus for use in UHV systems with sample transfer capability
[NASA-CASE-LAR-13040-1] 19 p3026 N84-29191
Compendium of selected methods for sampling and analysis at geothermal facilities
[PB84-199926] 22 p3565 N84-32579
Portable, sequential air sampler
[AD-D011169] 23 p3793 N84-34057

SAMPLES
NT MARS SURFACE SAMPLES
Aeromagnetic map of Yucca Mountain and surrounding regions, southwest Nevada
[DE84-003920] 10 p1526 N84-19995
Prochloron on synaptula 10 p1543 N84-20114
IPE 7 10 p1545 N84-20123
How many specimens? An aid in the design of fatigue test programs
[AD-A142810] 21 p3422 N84-31704

SAMPLING
NT AIR SAMPLING
NT CORE SAMPLING
NT DATA SAMPLING
NT PARTICULATE SAMPLING
NT RANDOM SAMPLING
Analysis of an effusive sampling device for analysis of boundary layer gases
[NASA-CR-174532] 01 p0120 N84-10778
A special bounded sequential procedure
[AD-A130403] 01 p0129 N84-10847
On two-stage bayes selection procedures
[AD-A130301] 01 p0136 N84-10890
Optimal sampling in selection problems
[AD-A130248] 01 p0136 N84-10891
Mass spectrometric analysis of silicon for solar cells
[BMFT-FB-T-83-134] 02 p0192 N84-11244
Computation of the sample range in presence of conditions on generalized variance
02 p0285 N84-11872
Initial operation of the compressed air experiment at Pittsfield, Illinois
[DE83-016930] 03 p0404 N84-12643
Detecting long-term ecological effects in forests and food chains
[DE83-003469] 03 p0406 N84-12655
A guide for effluent radiological measurements at DOE installations
[DE83-016639] 04 p0538 N84-13542
Characterization of reactants, reaction mechanisms and reaction products leading to extreme acid rain and acid aerosol conditions in southern California
[PB83-252825] 04 p0561 N84-13697
Representativeness of meteorological observations
[DE83-017699] 04 p0568 N84-13743
Life histories and monitoring strategies: Some lessons from field experience
[DE83-016164] 04 p0571 N84-13763
An investigation of methods for reducing sampling error in certain IRT (Item Response Theory) procedures
[AD-A133848] 05 p0739 N84-14853
Complete sample analysis by gas chromatography
[BLL-T8213/BG/LRS/LRST671/83] 06 p0600 N84-15212
Review of properties of various types of calorimeters: High luminosity and high energy
06 p0911 N84-15917
Jet-impact nebulization for sample introduction in inductively coupled plasma spectrometry
[AD-A133152] 06 p0920 N84-15982
Atomic oxygen effects on materials
06 p0929 N84-16036
Aircraft avionic system maintenance cannot duplicate and Retest-OK analytical source analysis
[AD-A134449] 07 p0945 N84-16129
Techniques for avoiding discrimination errors in the dynamic sampling of condensable vapors
[NASA-TM-85886] 07 p1007 N84-16527
Software clock-divider
[DE84-001266] 07 p1053 N84-16817
Environmental Radiation Data Report 33, January - March 1983
[PB84-104785] 08 p1183 N84-17708
Environmental Radiation Data Report 31, July - September 1982
[PB84-104801] 08 p1183 N84-17709
Airborne measurements of launch vehicle effluent of STS-2 launch on November 12, 1981 at Cape Canaveral, Florida
[NASA-TP-2260] 09 p1342 N84-18764
Laboratory investigation of the fate of diesel emissions in the atmosphere
[PB84-118496] 09 p1343 N84-18772
Rule-based statistical calculations on a database abstract
[AD-A136638] 09 p1404 N84-19172
Water resources data for Colorado, water year 1982. Volume 2: Colorado River Basin above Dolores River
[PB84-120138] 10 p1527 N84-20004
Temporal and spatial gaseous HCl concentrations in the near field STS postlaunch environment, Kennedy Space Center, Florida
[AD-A136935] 10 p1532 N84-20032
Report of prochloron research, IPE-7 (Palau, February 1982) 10 p1544 N84-20122
Monte Carlo calculations of elementary particle properties 10 p1561 N84-20229
Harmonizable filtering and sampling of time series
[AD-A137517] 10 p1570 N84-20285
The study of a mass spectrometer-beam system for measurements of ozone and other minor constituents of the stratosphere 11 p1677 N84-20942
Linear and nonlinear finite elements
[AD-A138468] 12 p1895 N84-22341
Boron in the marine atmosphere
13 p2010 N84-23038
Bootstrap inference with stratified samples
[AD-A139313] 14 p2218 N84-24312
Properties of a new rank statistic for comparing two populations in an arbitrary right censoring sampling scheme
[AD-A139640] 15 p2400 N84-25400
On the optimality of some subset selection procedures
[AD-A140180] 16 p2549 N84-26362
A sampling system for estimating the cultivation of wheat (Triticum aestivum L) from LANDSAT data
[E84-10165] 17 p2711 N84-27257
Remote sensing for oceanography: Past, present, future 17 p2711 N84-27263
Innovative detection, separation and sampling techniques for trace analysis by gas chromatography
[AD-A140974] 18 p2811 N84-27842
An estimation problem in faulty inspection sampling, revised
[AD-A141247] 18 p2851 N84-28103
Vapor spill pipe monitor
[DE84-011103] 20 p3190 N84-30267
Sampling report for the study of personal CO (carbon monoxide) exposure
[PB84-181957] 20 p3239 N84-30560
Statistical tests for detecting crustal movements using Bayesian inference
[PB84-198811] 21 p3445 N84-31861
Strong confidence intervals: A compromise between the Gaussian and the slash
[AD-A142981] 21 p3475 N84-32021
The use of double sampling in studying robustness
[AD-A142982] 21 p3475 N84-32022
Compendium of selected methods for sampling and analysis at geothermal facilities
[PB84-199926] 22 p3565 N84-32579
Robust confidence intervals for a scale parameter: A compromise between the Gaussian and the slash
[AD-A143666] 23 p3820 N84-34223
Distortions in frequency spectra of signals associated with sampling-pulse shapes
[DE84-701747] 24 p3896 N84-34672
Mechanical properties of multi-year sea ice. Testing techniques
[AD-A144431] 24 p3935 N84-34908
A combined Bayes-sampling theory method for monitoring a Bernoulli process
[AD-P003840] 24 p3938 N84-34928
An optimal sequential Bernoulli selection procedure
[AD-P003841] 24 p3939 N84-34929
Complex demodulation: A technique for assessing periodic components in sequentially sampled data
[AD-P003845] 24 p3939 N84-34933

SAMPLING DEVICES
U SAMPLERS

SAN ANDREAS FAULT EXPERIMENT
Update: San Andreas Fault experiment
20 p3220 N84-30456

SAN FRANCISCO (CA)
Investigation of several aspects of LANDSAT-4 data quality
[E84-10076] 07 p1021 N84-16623
Debris Flows, Landslides, and Floods in the San Francisco Bay Region, January 1982: Overview and summary of a conference
[PB84-194737] 20 p3243 N84-30590
Investigation of several aspects of LANDSAT 4/5 data quality --- California, Texas, Arkansas, Alabama, and Pacific Ocean
[E84-10024] 22 p3613 N84-32892

SAN JUAN MOUNTAINS (CO)
San Juan Mountains avalanche study: Evaluation and prediction of avalanche hazard, meteorological and avalanche observations
[PB84-202704] 21 p3432 N84-31776

SAN MARCO SATELLITE
Preflight study of San Marco D/L GaAs solar cell panels 19 p3047 N84-29334
San Marco D/L solar array system design and performance
[NASA-TM-86125] 24 p3916 N84-34795

SAND DUNES
U DUNES

SANDS
NT TAR SANDS
Fundamental properties of soils for complex dynamic loadings: Dynamic constitutive modeling of sandy soils
[AD-A131284] 02 p0206 N84-11341
Sizewell-Dunwich Banks field study, topic report 7: A study of nearshore sediment transport process
[IOS-146] 02 p0258 N84-11890
Non-destructive testing of non-metallic materials using microwaves
[DRIC-T-6974] 03 p0385 N84-12508
Evaluation of Chem-Crete high strength modified asphalt concentrate
[PB84-105089] 08 p1172 N84-17836
Wind erosion and dune formation on high frozen bluffs
13 p2082 N84-23493
A pleistocene sand desert in Arctic Alaska
14 p2165 N84-23966

SANDSTONES
Feasibility of using sonic techniques to estimate in-situ stresses
[DE83-016890] 01 p0097 N84-10834
Continuity and internal properties of Gulf Coast sandstones and their implications for geopressured fluid production
[DE84-004396] 10 p1526 N84-19996
Analysis of Sweet Lake geopressured-geothermal aquifer
[DE84-006053] 12 p1836 N84-21972
Systematic jointing in the cardium sandstone along the Bow River, Alberta, Canada 22 p3620 N84-32937
Petrography and ultrasonic wave velocity in the Admire Formation (Permian), Kansas 22 p3621 N84-32945
Depositional history and sedimentology of upper cretaceous mancos shale and lower mesaverde group, Northwestern Colorado: Migrating shelfbar and wave-dominated shoreline deposits
23 p3796 N84-34066

SANDWICH CONSTRUCTION
U SANDWICH STRUCTURES

SANDWICH STRUCTURES
Nonlinear response and noise transmission of double wall sandwich panels 02 p0187 N84-11215
In-plane shear properties of a fabric-CFRP/aluminum-honeycomb sandwich construction
[NAL-TR-773] 09 p1275 N84-18327
Mechanical behavior of superplastically formed sandwich panels 10 p1453 N84-19490
Nonlinear analysis of laminated, bimodular composite material structures
[AD-A139942] 15 p2285 N84-24714
Combustion of ammonium perchlorate-polymer sandwiches
[AD-A139873] 15 p2302 N84-24814
Carbon structures on the wing of the regional transport plane ATR-42
[SNIAS-832-111-113] 16 p2448 N84-25704
Effect of pressure wave on cylindrical sandwich shell immersed in compressible fluid
17 p2650 N84-26948
Ceramic to metal attachment system --- magnetohydrodynamic generators
[DE84-011095] 20 p3183 N84-30065
Improving the design of multilayer pipes
24 p3876 N84-34564
Stress analysis of foam sandwich semi-monocoque structures 24 p3958 N84-35061

SAPPHIRE
A new silicon-on-sapphire MIL-STD-1750A microprocessor
[AD-P003551] 21 p3334 N84-31155
New sapphire and ruby components and their manufacture using diamond abrasives
[CSIR-TRANS-1734] 21 p3375 N84-31419

SARCOMA
U CANCER

SARSAT
Satellite activities of NOAA, 1983
22 p3540 N84-32408

SAS-D
U IUE

SATAN (SENSOR)
U TERRAIN ANALYSIS
SATELLITE ANTENNAS
On the assessment of errors due to antenna pattern imperfections: Executive summary — satellite-borne imaging microwave radiometer
[TUD-R-253] 02 p0210 N84-11376
RF systems in space. Volume 2: Space-based radar analyses
[AD-A133735] 05 p0666 N84-14394
Research in adaptive beamforming for satellite communications
[AD-A133733] 05 p0666 N84-14396
Earth coverage corrugated horns (44.5 GHz and 20.7 GHz)
[AD-A133241] 06 p0823 N84-15366
The meteorological data distribution mission on board SIRIO satellite 06 p0907 N84-15891
Probe measurement of DC electric fields — SCATHA satellite charging 08 p1116 N84-17255
Shot noise generated by gas impact during a cometary fly-by — Vega Halley's comet flyby
06 p1118 N84-17273
Sun focusing by satellite antenna reflectors
10 p1445 N84-19439
Broadcasting satellites at 12 GHz for Region 2: Technical characteristics
[NASA-TM-83522] 10 p1476 N84-19640
Computer aided synthesis of a satellite antenna structure with probabilistic constraints 10 p1512 N84-19899
Dynamic behaviour of a satellite antenna structure in random vibration environment 10 p1512 N84-19900
Environmental effects on the dynamics and control of an orbiting large flexible antenna system
[NASA-CR-175448] 11 p1623 N84-20627
The effects of aperture antennas after signal propagation through anisotropic ionized media
[AD-A136266] 12 p1807 N84-21781
Evolution from a hinge actuator mechanism to an antenna deployment mechanism for use on the European large communications satellite (L-SAT/OLYMPUS)
15 p2347 N84-25084
The 20 and 30 GHz MMIC technology for future space communication antenna system
[NASA-TM-83745] 21 p3382 N84-31460
Evaluation of microstrip radiators as feeds for reflector antenna — satellite antenna
[ERA-83-0056] 23 p3732 N84-33655
Distortion measurement of antennas under space simulation conditions with high accuracy and high resolution by means of holography
24 p3864 N84-34491
SATELLITE ATMOSPHERES
Io: Escape and ionization of atmospheric gases
[NASA-CR-174580] 05 p0702 N84-14607
Outer satellite atmospheres: Their extended nature and planetary interactions
[NASA-CR-174579] 05 p0764 N84-15013
Outer satellite atmospheres: Their extended nature and planetary interactions
[NASA-CR-173395] 12 p1922 N84-22524
Titan exploration with advanced systems. A study of future mission concepts
[NASA-CR-173499] 13 p1936 N84-22593
A physical and chemical study of Titan: Atmosphere, clouds, and hazes 17 p2776 N84-27628
A modeling analysis program for the JPL Table Mountain Io sodium cloud data
[NASA-CR-173971] 23 p3844 N84-34386
SATELLITE ATTITUDE CONTROL
Simulation and analysis of low altitude terrestrial satellites
[INPE-2754-PRE/330] 04 p0486 N84-13209
Study of auxiliary propulsion requirements for large space systems, volume 2
[NASA-CR-168193-VOL-2] 04 p0490 N84-13218
Sensitivity analysis of the influence of the flexibility of solar panels on the attitude dynamics of artificial satellites
[INPE-2763-PRE/337] 07 p0961 N84-16232
Canadian Attitude Sensing Experimental Package (CASEP) 08 p1110 N84-17223
GEOS 1 and 2 in flight evaluation of the reaction control system
[SEP-TS/S/194/JM/30301/81(1)]
08 p1113 N84-17242
BAe reaction wheels for Olympus — Olympus telecommunication satellite 09 p1297 N84-18475
Satellite attitude stability provided by a rotor subjected to difficult operating conditions
[INPE-2747-PRE/323] 10 p1436 N84-19384
Modular design attitude control system
[NASA-CR-170996] 10 p1438 N84-19392
A torque motor for a low friction single axis turntable — satellite attitude control tests
[NLR-MP-82036-U] 12 p1778 N84-21603
Very low thrust gaseous oxygen-hydrogen rocket engine ignition technology 13 p1952 N84-22692
An approach to attitude control maneuvers which helps maintain orbit inclination 15 p2268 N84-24618
Characterization of uncertainty for large space structure control problems 15 p2268 N84-24619
Attitude control on large flexible spacecraft
15 p2268 N84-24620
Low authority control of flexible spacecraft via numerical optimization 15 p2268 N84-24621
Verification and validation techniques applied to the reconfigurable block SD satellite software
15 p2269 N84-24626
Vibration Control Of Space Structures VCOSS B: Momentum exchange and truss dampening
[AD-A139910] 15 p2281 N84-24701
Magnetic roll/yaw attitude control of a momentum biased near polar orbit satellite
[MBB-UR-629-83-O] 16 p2561 N84-26432
Inertial-optical attitude determination and model following control of maneuvering spacecraft
[NLR-MP-83053-U] 17 p2616 N84-26742
An adaptive attitude controller for terrestrial artificial satellites
[INPE-3186-PRE/551] 21 p3349 N84-31243
Pitch control of a satellite using stabilizing flaps
[INPE-3185-PRE/550] 21 p3349 N84-31246
SATELLITE ATTITUDE DISTURBANCE
U ATTITUDE STABILITY
U SPACECRAFT STABILITY
SATELLITE CAPTURE
U SPACECRAFT RECOVERY
SATELLITE COMMUNICATION
U SPACECRAFT COMMUNICATION
SATELLITE CONFIGURATIONS
The ISPM spacecraft 09 p1263 N84-18243
Thermal design optimization for spacecraft during transfer orbit 10 p1445 N84-19442
Geostationary satellite with Sun pointing platform and geocentric payload 10 p1447 N84-19455
Ariane V8 - Intelsat V F8 16 p2456 N84-25746
Accomodation of candidate laser communication links on selected spacecraft configurations
24 p3905 N84-34734
SATELLITE CONTROL
NT SATELLITE ATTITUDE CONTROL
The anisotropy of high latitude nighttime F-region irregularities
[AD-A131215] 01 p0106 N84-10688
Nutation damper for the AMPTE-IRM satellite: Final Report
[NASA-TM-77330] 05 p0643 N84-14228
Comparison of the portable Program ECS Package for Synchronous Orbit Control (PEPSOC) and the ESOC Multi-Satellite Support System (MSSS) control software
05 p0725 N84-14762
Reliability issues in active control of large flexible space structures
[NASA-CR-175341] 07 p0964 N84-16248
ISPM mission operations 09 p1263 N84-18244
Capture of satellite stabilized by gravity gradient with a flexible mast during and after deployment
[INPE-2749-PRE/325] 10 p1436 N84-19383
Study of ERS-1 dynamic interaction. Volume 1: Theoretical notes
[ER-RP-A1-002-VOL-1] 16 p2456 N84-25747
Penn State Get Away Special
18 p2799 N84-27759
LANDSAT-5 orbit adjust maneuver report
[E84-10155] 19 p3039 N84-29276
The next generation in satellite flight control systems
19 p3119 N84-29822
Colocation stationkeeping of geostationary satellites
19 p3121 N84-29838
Application of TOS/AMS to TDRS E and F
[NASA-CR-171124] 21 p3346 N84-31225
SATELLITE DEFENSE
U SPACECRAFT DEFENSE
SATELLITE DESIGN
ROSAT-FI design review
[MPE-39] 08 p1109 N84-17209
Traffic routing in a switched regenerative satellite. Volume 2, task 4: Review (executive summary)
[ESA-CR(P)-1792-VOL-2] 08 p1147 N84-17464
The first European Remote Sensing Satellite (ERS-1): Overall description, potential applications and users
08 p1175 N84-17654
The ISPM spacecraft 09 p1263 N84-18243
Design criteria and eigensequence plots for satellite computed tomography
[NASA-CR-172767] 09 p1267 N84-18276
Suitability of viscoelastic materials for nutation damping of spin-stabilized satellites
[ILR-55] 09 p1272 N84-18307
Thermal control design of ISPM
10 p1441 N84-19408
Thermal control of the EXOSAT European satellite
10 p1441 N84-19409
Viking satellite thermal control analytical verification and test 10 p1441 N84-19410
Thermal control of the SPOT platform
10 p1441 N84-19411
Thermal control of Telecom 1
10 p1441 N84-19413
The thermal design of L-SAT large telecommunication satellite 10 p1441 N84-19414
Thermal design and performance of the IRAS spacecraft system 10 p1441 N84-19415
Thermal design of Infrared Space Observatory (ISO) payload dual cooling 10 p1442 N84-19417
A thermal analysis approach applied in early stages of a program — satellite design 10 p1442 N84-19421
Thermal design optimization for spacecraft during transfer orbit 10 p1445 N84-19442
Thermal design features of Rosat X-ray telescope
10 p1445 N84-19443
Thermal test data analysis — satellite design
10 p1447 N84-19450
Surface property measurement for spacecraft thermal balance testing 10 p1447 N84-19451
Geostationary satellite with Sun pointing platform and geocentric payload 10 p1447 N84-19455
Simplification of thermal design by the use of effective sink temperature method 10 p1448 N84-19461
Derivation and combination of impedance matrices for flexible satellites
[ESA-STR-209] 12 p1778 N84-21604
Design study for a low density wind tunnel
[INPE-3072-TDL/160] 17 p2610 N84-26707
POPSAT: A candidate satellite system for solid Earth applications and sciences. Preliminary feasibility study. Volume 1: Summary
[ESA-CR(P)-1882-VOL-1] 17 p2614 N84-26735
Finite element thermal-structural analysis of cable-stiffened space structues
[NASA-CR-173709] 18 p2852 N84-28108
Large Deployable Reflector Science and Technology Workshop. Volume 3: Systems and Technology Assessment
[NASA-CP-2275-VOL-3] 21 p3523 N84-32318
Large Deployable Reflector Science and Technology Workshop. Volume 3: Systems and technology assessment. Conclusions 21 p3523 N84-32321
Research relative to high energy astrophysics — large area modular array of reflectors, X-ray spectroscopy, and thermal control
[NASA-CR-173878] 22 p3678 N84-33315
Spectrasat: A concept for the collection of global directional wave spectra 23 p3782 N84-33981
The Navy Geosat mission radar altimeter satellite program 23 p3782 N84-33982
Conceptual design of satellite SAR
23 p3782 N84-33985
The Venus Radar Mapper: Radar system design for highly elliptical orbits 23 p3782 N84-33986
A case study of spaceborne synthetic aperture radar system design for the Earth Resources Satellite
23 p3782 N84-33987
The active microwave instrument for ERS-1
23 p3783 N84-33990
The International Ultraviolet Explorer (IUE): Six years in orbit 24 p3981 N84-35224
SATELLITE DRAG
Drag on geodynamic satellites
19 p3118 N84-29818
SATELLITE GROUND SUPPORT
Spacecraft interface design and its impact on operational support
[ESA-STR-211] 03 p0342 N84-12220
SPOT (French satellite) — satellite and program overviews 08 p1175 N84-17652
ERS-1 Mission: Fucino Station
[ESA-CR(P)-1831-VOL-2] 12 p1809 N84-21792
Study of in-orbit test techniques for multibeam satellites
[LL3-17] 16 p2456 N84-25748
The ERS-1 ground segment 23 p3783 N84-33994
SATELLITE GROUND TRACKS
Results of permanent Doppler measurements at the satellite observation station Wettzell
08 p1174 N84-17646
SATELLITE GUIDANCE
Journal of the Chinese Society of Astronautics (selected articles)
[AD-A131032] 02 p0183 N84-11191
SATELLITE IMAGERY
Digital image registration by sequential analysis
[INPE-2940-PHE/429] 03 p0376 N84-12446
Relative elevation determination from LANDSAT imagery 03 p0392 N84-12558
The SPOT distribution system
03 p0400 N84-12615

The HCMM system: Development and performance
05 p0696 N84-14570
Revised radiometric calibration technique for LANDSAT-4 Thematic Mapper data by the Canada Centre for Remote Sensing 10 p1522 N84-19967
Revised radiometric calibration technique for LANDSAT-4 Thematic Mapper data
10 p1522 N84-19968
Proceedings of the Fourth Meeting of the LANDSAT Technical Working Group (LTWG). Attachments
[LIB-PRO-0012] 10 p1523 N84-19971
Current status of th Brazilian LANDSAT facilities
10 p1523 N84-19977
TM data available at EDC, and EDC TM data handling and processing plan 10 p1524 N84-19980
CCRS option for TM data distribution
10 p1524 N84-19982
Geometric performance: Line to line displacement analysis 10 p1524 N84-19983
Summary of LANDSAT Technical Working Group (LTWG) meetings 10 p1524 N84-19984
Swirls and plumes or application of statistical methods to satellite-derived sea surface temperatures
[AD-A135462] 10 p1528 N84-20010
Sampling problems and cloud statistics
10 p1534 N84-20048
Prospective use of a mobile radiation system to validate techniques of radiation estimations from satellite records
10 p1536 N84-20064
Mapping of global radiation from Meteosat image data
10 p1536 N84-20065
Analysis and classification of mesoscale cloud and precipitation systems
[PB84-136999] 10 p1542 N84-20104
Development of a data management front-end for use with a LANDSAT-based information system
[NASA-CR-175151] 11 p1749 N84-21418
Technical addendum to the study: ERS-1 Mission, Fucino Station. SAR processor based upon EMMA architecture
[ERI-171] 12 p1809 N84-21791
AgRISTARS stage 3: The Bristol interactive scheme (BIAS) for satellite-improved rainfall monitoring: Further developments, testing and method description
[PB84-150630] 12 p1837 N84-21976
Generation of mesoscale hydrodynamic phenomena by the Grappler and Whiting Seamounts, southeast of Puerto Rico
[PB84-148198] 12 p1863 N84-22140
Estimating monthly rainfall from geostationary satellite imagery over Amazonia, Brazil 13 p2016 N84-23069
Volcanism in the Valles Marineris
13 p2080 N84-23480
The Galilean Satellite Geological Mapping Program, 1983 13 p2090 N84-23541
Environmental satellite imagery, October 1983
[PB84-160001] 14 p2181 N84-24068
Proceedings of the Fourth Meeting of the LANDSAT Technical Working Group (LTWG), volume 1
[LIB-PRO-0012-VOL-1] 15 p2357 N84-25144
An integrated software system for geometric correction of LANDSAT MSS imagery
[E84-10143] 16 p2507 N84-26091
Comparative study of image data produced by satellites with different characteristics
[ESA-CR(P)-1867] 16 p2509 N84-26103
Coastal bathymetry and currents from LANDSAT data
17 p2718 N84-27303
On the response to ocean surface currents in synthetic aperture radar imagery 17 p2718 N84-27304
Variations in surface current off the coasts of Canada as inferred from infrared satellite imagery
17 p2719 N84-27305
Satellite remote sensing over ice
17 p2719 N84-27306
Method to estimate drag coefficient at the air/ice interface over drifting open pack ice from remotely sensed data 17 p2720 N84-27310
Analysis of SEASAT SAR imagery collected during the JASIN experiment
[AD-A140584] 17 p2721 N84-27320
Cloud cover typing from environmental satellite imagery. Discriminating cloud structure with Fast Fourier Transforms (FFT)
[NASA-CR-173727] 18 p2883 N84-28296
The International Satellite Cloud Climatology Project (ISCCP): Cloud analysis algorithm intercomparison
[WCP-73] 18 p2886 N84-28313
The use of satellite observed cloud patterns in Northern Hemisphere 300 mb and 1000/300 mb numerical analysis
[AD-A141215] 18 p2889 N84-28340
LANDSAT-4 Science Investigations Summary, including December 1983 Workshop results, volume 1
[E84-10166] 20 p3205 N84-30359
Geodetic accuracy of LANDSAT-4 Multispectral Scanner and Thematic Mapper data 20 p3211 N84-30399
LANDSAT scene-to-scene registration accuracy assessment 20 p3212 N84-30405
Geometric accuracy assessment of LANDSAT-4 Multispectral Scanner (MSS) — Washington, D.C.
20 p3212 N84-30407
Inland aquatic resources and biogeochemical cycles
20 p3217 N84-30436
Tropospheric chemistry 20 p3218 N84-30441
Geology 20 p3218 N84-30442
A directory of European, Middle Eastern, and North African coastal ground control points for mapping satellite images
[AD-A142019] 20 p3226 N84-30512
The INPE handouts to the 6th LANDSAT Technical Working Group (LTWG) Meeting
[E84-10176] 21 p3427 N84-31738
TM digital image products for applications — computer compatible tapes
[E84-10178] 21 p3428 N84-31749
Relative radiometric calibration of LANDSAT TM reflective bands
[E84-10179] 21 p3428 N84-31750
TM digital image products for applications — computer compatible tapes
[E84-10183] 21 p3429 N84-31754
Applications of the AVE-SESAME data sets to mesoscale studies
[NASA-CR-3819] 21 p3446 N84-31866
Investigation of several aspects of LANDSAT 4/5 data quality — California, Texas, Arkansas, Alabama, and Pacific Ocean
[E84-10024] 22 p3613 N84-32692
LANDSAT-4 image data quality analysis — LANDSAT 5 imagery
[E84-10173] 22 p3613 N84-32693
Quantitative analysis of satellite infrared imagery using digital storage equipment
[INPE-2978-PRE/440] 22 p3639 N84-33074
On the use of meteorologic satellites in hydrology
[INPE-2879-PRE/404] 23 p3763 N84-33851
Irrigated lands: Monitoring by remote sensing
[NASA-CR-173945] 23 p3763 N84-33854
A comparative study of different products of sensor systems applied in a lithologic-structural analysis of the Quadrilatero Ferrifero area, Minas Gerais
[INPE-3210-TDL/174] 23 p3764 N84-33856
Synoptic meteorology in Antarctica
[INPE-3201-NTE/222] 23 p3800 N84-34095
Imaging data 23 p3842 N84-34370
Meteorological Satellite Center Technical Note no. 9, 1984
[ISSN-0388-9653] 24 p3921 N84-34816
Clouds with appearance like Cb-cloud on satellite imagery 24 p3921 N84-34818
An explanation of the revised DVORAK technique for estimating tropical cyclone intensity using satellite cloud imagery and some results of its application to two 1982 storms 24 p3921 N84-34820
Analysis of lidar, radar and satellite measurements on severe thunderstorms and their environments
24 p3928 N84-34864
Regional scale simulation of atmospheric structure using VAS data 24 p3929 N84-34869
Analysis of satellite data for sensor improvement (detection of severe storms from space)
24 p3932 N84-34888
Automated mesoscale winds derived from GOES multispectral imagery 24 p3933 N84-34895

SATELLITE INSTRUMENTS
NT LASER ALTIMETERS
NT MULTISPECTRAL LINEAR ARRAYS
High Resolution Imager (HRI) for the Roentgen Satellite (ROSAT) definition study
[NASA-CR-174598] 03 p0342 N84-12223
Spectral characterization of the LANDSAT thematic mapper sensors
[E84-10065] 06 p0865 N84-15634
ROSAT-FI design review
[MPE-39] 08 p1109 N84-17209
Canadian Attitude Sensing Experimental Package (CASEP) 08 p1110 N84-17223
The first European Remote Sensing Satellite (ERS-1): Overall description, potential applications and users
08 p1175 N84-17654
Validation of SEASAT-1 altimetry using ground truth in the North Sea region
[SER-B-263-MITT-166] 08 p1179 N84-17681
Astron satellite 12 p1775 N84-21576
Satellite techniques for determining the geopotential for sea-surface elevations 17 p2717 N84-27296
The satellite altimeter as a platform for observation of the oceanic mesoscale 17 p2718 N84-27299
The evolutionary trend in airborne and satellite radar altimeters 17 p2718 N84-27300
Determination of sea surface temperature with N-ROSS (Navy-Remote Ocean Sensing System)
[AD-A143563] 22 p3627 N84-32984
Calibration of precise satellite altimetry for the ionosphere and wet troposphere — TOPEX
23 p3778 N84-33955
A case study of spaceborne synthetic aperture radar system design for the Earth Resources Satellite
23 p3782 N84-33987
Some test results of synthetic aperture radar transmitter and receiver — satellite SAR 23 p3783 N84-33988
The active microwave instrument for ERS-1
23 p3783 N84-33990
Overview of global scale research Doppler lidar activities 24 p3924 N84-34836

SATELLITE INTERCEPTORS
Simplified analysis of the problem of retrieval for a stabilized artificial satellite by a gravity gradient
[INPE-2756-PRE/332] 09 p1270 N84-18295

SATELLITE LAUNCHING
U SPACECRAFT LAUNCHING

SATELLITE LIFETIME
A position paper: Mesoscale oceanography from GEOSAT
[AD-A132292] 04 p0569 N84-13749
The role of onboard intelligence and of orbital servicing in the increase of satellite lifetime
15 p2266 N84-24805
The control of limited life materials
[ESA-PSS-01-722-ISSUE-1] 16 p2500 N84-26047
A rapid estimation of near earth satellite lifetimes with quasi-dynamic atmospheric model with application to a proposed Brazilian satellite 19 p3119 N84-29823

SATELLITE MANEUVERS
U SPACECRAFT MANEUVERS

SATELLITE NAVIGATION SYSTEMS
Monitoring of ship routes via satellite
[DFVLR-MITT-83-15] 07 p0963 N84-16240
Satellite-directed navigational guidance for aircraft
[H-REPT-98-510] 08 p1102 N84-17164
Tracking Data Acquisition System (TDAS) for the 1990's. Volume 6: TDAS navigation system architecture
[NASA-CR-175196] 10 p1434 N84-19374
Satellite aided navigation (INNAVSAT)
[BMFT-FB-W-84-003] 19 p2962 N84-28772

SATELLITE NETWORKS
Network design tool for EHF satellite communications networks
[AD-A131812] 03 p0361 N84-12349
Investigation of mathematical models to combine a terrestrial network with a satellite network — geodesy
[SER-C-274] 03 p0392 N84-12554
Monitoring of renewable resources (a land information system for Europe) — remote sensing
03 p0395 N84-12581
Accuracy estimates of gravity potential differences between western Europe and United States through Lageos satellite laser ranging network
[AD-A131836] 03 p0406 N84-12669
Traffic routing in a switched regenerative satellite. Volume 1, task 3: Traffic assignment
[ESA-CR(P)-1792-VOL-1] 06 p1147 N84-17463
Traffic routing in a switched regenerative satellite. Volume 2, task 4: Review (executive summary)
[ESA-CR(P)-1792-VOL-2] 06 p1147 N84-17464
Aerospace research and technology in Germany
12 p1763 N84-21500
Multipath link and modem design for satellite mobile communications
[ESA-CR(P)-1633] 12 p1809 N84-21793
Study of a satellite communication system for wideband communications: Executive summary
[ESA-CR(P)-1839] 12 p1809 N84-21795
Testing and error analysis of a real-time controller
13 p2027 N84-23144
Department of Housing and Urban Development Appropriations Bill, 1984
[H-REPT-98-803] 14 p2249 N84-24508
Wideband integrated voice/data technology
[AD-A139924] 15 p2321 N84-24937
Test and evaluation of the Satellite-Aided Maritime Search and Rescue System (SAMSARS). Volume 1: System description and test results
[PB84-184621] 22 p3540 N84-32412
Satellite telemetry
[INPE-2854-PRE/394] 23 p3899 N84-33444
Domestic satellite communication system to be established in China 24 p3891 N84-34635

SATELLITE OBSERVATION
System definition Roentgensatellit, phase B 1.2
[BMFT-FB-W-83-010] 03 p0342 N84-12219
Monitoring of renewable resources (a land information system for Europe) — remote sensing
03 p0395 N84-12581

Postglacial rebound observed by Lageos and the effective viscosity of the lower mantle
[NASA-TM-84982] 04 p0582 N84-13705
Satellite observations of variations in southern hemisphere snow cover
[PB83-252908] 04 p0568 N84-13745
Economic benefits of operational environmental satellites
[PB83-252932] 04 p0569 N84-13748
Establishing observation equations by means of series expansion into eigenfunctions
[TUM-MITT-183] 05 p0739 N84-14851
Ionospheric factors affecting the performance of HF sky-wave sea-state radars 06 p0868 N84-15656
Performance evaluation of the JPL interim digital SAR processor 07 p0969 N84-16407
Observations of internal waves in the Gulf of California by SEASAT SAR 07 p0990 N84-16414
Radar activities of the DFVLR Institute for Radio Frequency Technology 07 p0990 N84-16418
A study of the atmosphere and ionosphere using satellite observations of 300-1400 Ang airglow
[NASA-CR-173146] 07 p1026 N84-16663
Movement of satellite-tracked buoys in the Beaufort sea (1979-1981)
[AD-A133159] 07 p1041 N84-16748
Development of a computer program for road detection in satellite images
[FOA-C-30316-E1] 08 p1214 N84-17917
Earth Resources: A continuing bibliography with indexes, issue 40
[NASA-SP-7041(40)] 09 p1336 N84-18723
The geodetic use of satellite observations
10 p1519 N84-19947
Swirls and plumes or application of statistical methods to satellite-derived sea surface temperatures
[AD-A135462] 10 p1528 N84-20010
Mariners Weather Log, volume 27, number 2, Fall 1983
[PB84-133115] 10 p1541 N84-20100
Satellite observations of fronts and frontal meanders in the Central North Pacific Ocean
11 p1671 N84-20903
Kinematic analysis of Hurricane Frederick (1979) using satellite, aircraft and Rawinsonde data
[NASA-CR-175430] 11 p1685 N84-20988
Oceanic mesoscale variability and general circulation from satellite altimetry: A status report
[AD-P002653] 11 p1689 N84-21018
Conclusions and recommendations
12 p1835 N84-21962
Determination of sea surface temperatures from high resolution infrared satellite measurements
[REPT-115] 12 p1837 N84-21975
AgRISTARS stage 3: The Bristol interactive scheme (BIAS) for satellite-improved rainfall monitoring: Further developments, testing and method description
[PB84-150630] 12 p1837 N84-21976
Topex: Observing the oceans from Space
[NASA-CR-173490] 13 p2018 N84-23085
Comparison of Hapke's photometric theory with Voyager observations of Europa, Enceladus, Rhea and Mimas
13 p2074 N84-23439
Characterization of surficial geologic units on Venus from Pioneer Venus radar data: A progress report
13 p2076 N84-23454
Arctic Sea ice by passive microwave observations from the Nimbus-5 Satellite 14 p2166 N84-23970
Earth Resources: A continuing bibliography with indexes
[NASA-SP-7041(41)] 14 p2166 N84-23975
AVHRR aerosol ground truth experiment
[PB84-157882] 14 p2181 N84-24065
Preliminary investigations concerning a 90 GHz radiometer satellite experiment
[DFVLR-FB-84-02] 15 p2280 N84-24693
Analysis of MgII lines in algol
15 p2422 N84-25547
Stochastic models for point manifolds
16 p2504 N84-26072
The use of satellite observations of the ocean surface in commercial fishing operations
[AD-P003120] 16 p2533 N84-26261
Research and applications of data from environmental satellites: Determining parameters and developing interpretation techniques for applications of environmental satellite data
[INPE-3005-NTE/213] 17 p2711 N84-27261
Frontiers of Remote Sensing of the Oceans and Troposphere from Air and Space Platforms
[NASA-CP-2303] 17 p2711 N84-27262
Remote sensing of air-sea interactions
17 p2712 N84-27267
Ocean wind field measurement performance of the ERS-1 scatterometer 17 p2713 N84-27273
Theory and measure of certain image norms in SAR
17 p2713 N84-27274
Synthetic aperture radar images of ocean waves, theories of imaging physics and experimental tests
17 p2714 N84-27275
Satellite techniques for determining the geopotential for sea-surface elevations 17 p2717 N84-27296
Observations of sea ice and icebergs from satellite radar altimeters 17 p2720 N84-27311
Simulation and assimilation of satellite altimeter data at the oceanic mesoscale 17 p2720 N84-27312
Fire detection using the NOAA (National Oceanic and Atmospheric Administration)-series satellites
[PB84-176890] 17 p2722 N84-27324
Status of solar measurements and data reduction for ERB-Nimbus 7 17 p2778 N84-27637
Petrologic and geophysical sources of long-wavelength crustal magnetic anomalies
[NASA-CR-175245] 18 p2878 N84-28276
Observing ocean-atmosphere exchanges with space-borne sensors, appendix C
18 p2884 N84-28298
Outlook for improved numerical weather prediction using satellite data with a special emphasis on the hydrological variables
[AD-A141233] 18 p2890 N84-28344
Satellite-Derived Sea Surface Temperature: Workshop-2
[NASA-CR-173740] 18 p2892 N84-28355
Pattern recognition for Space Applications Center director's discretionary fund
[NASA-TM-82586] 18 p2951 N84-28710
Results from study of Earth resources from space
19 p2976 N84-28867
Monitoring of ship routes via satellite
[ESA-TT-842] 19 p2980 N84-28889
The use of satellite and aircraft SAR to detect and chart hazards to navigation
[AD-A141658] 19 p3041 N84-29296
Ocean circulation studies 20 p3222 N84-30469
Global mean sea surface based upon SEASAT altimeter data 20 p3222 N84-30470
SEASAT altimetry for surface height of inland seas
20 p3222 N84-30472
Derivation of crustal magnetic anomalies from MAGSAT
[REPT-609] 20 p3240 N84-30589
Earth resources, a continuing bibliography with indexes
[NASA-SP-7041(42)] 21 p3425 N84-31725
Monitoring of long waves in the eastern Equatorial pacific 1981-1983 using satellite multi-channel sea surface temperature charts
[PB84-190487] 21 p3451 N84-31900
DCP systems and characteristics
[INPE-2948-PRE/431] 22 p3614 N84-32899
An interactive procedure for the analysis of linear elements detected in LANDSAT pictures: An application to northern Mozambique 23 p3770 N84-33900
Stereo methods in satellite meteorology
23 p3776 N84-33936
GMS observations of Typhoon 8205, 8212, 8213
23 p3800 N84-34092
Tropical cyclone intensity analysis using satellite data
[NOAA-TR-NESDIS-11] 23 p3800 N84-34096
Earth's rotation and its geophysical implications — laser telemetry 24 p3904 N84-34720
Geophysical interpretation of satellite laser ranging measurements of crustal movement in California
[NASA-TM-86148] 24 p3919 N84-34808
Andean tectonics: Implications for Satellite Geodesy
[NASA-TM-86160] 24 p3919 N84-34809
The Karman vortex street detected by the geostationary meteorological satellite Himawari
24 p3921 N84-34817
Introduction to the International Satellite Cloud Climatology Project (ISCCP) 24 p3922 N84-34822
Utilization of satellite cloud information to diagnose the energy state and transformations in extratropical cyclones 24 p3925 N84-34846
Application of satellite data to tropic/subtropic moisture coupling 24 p3926 N84-34849
Severe storm initiation and dvelopment from satellite infrared imagery and Rawlinsonde data
24 p3929 N84-34872

SATELLITE ORBIT CALCULATION
U ORBIT CALCULATION

SATELLITE ORBITS
NT GEOSYNCHRONOUS ORBITS
NT POLAR ORBITS
NT STATIONARY ORBITS
Mission analysis: Definition of orbital geometry of artificial satellites
[INPE-2843-TDL/141] 02 p0184 N84-11194
Close approaches between satellites in circular orbits
[AD-A133779] 05 p0642 N84-14224
Comparison of the portable Program ECS Package for Synchronous Orbit Control (PEPSOC) and the ESOC Multi-Satellite Support System (MSSS) control software
05 p0725 N84-14762
Results of the simultaneous Doppler measuring campaign HOTDOC from 29 September to 10 October 1979 06 p1174 N84-17648
Non-gravitational force modelling and altimeter measurement modelling for SEASAT-A satellite
11 p1621 N84-20809
Forecasting satellite motion 12 p1775 N84-21583
Some aspects of the high equatorial orbit for the Tropical Earth Resources Satellite (TERS)
[VTH-LR-404] 12 p1904 N84-22400
Satellite orbit theory for a small computer
[AD-A139408] 14 p2112 N84-23660
Multifunction spacecraft attitude estimation and navigation system 15 p2267 N84-24611
Optimizing the maneuvers of an observation satellite for rapid overflight of a precise point on Earth
15 p2268 N84-24617
An approach to attitude control maneuvers which helps maintain orbit inclination 15 p2268 N84-24618
Semi-analytical procedure for the propagation of artificial satellite orbits based on parameter estimation
[INPE-2757-PRE/333] 15 p2270 N84-24628
Equipment for measuring the distance of satellite in low orbit
[INPE-3126-PRE/517] 16 p2455 N84-25739
Study of in-orbit test techniques for multibeam satellites
[LL3-17] 16 p2456 N84-25748
Free molecular aerodynamics for satellite application
[ESA-TT-776] 16 p2456 N84-25749
Optimal position of solar arrays on sunsychronous satellites
[INPE-3010-RPE/454] 17 p2614 N84-26732
Weather satellites
[KNMI-152-BV-3] 18 p2802 N84-27783
Quasicircular equatorial orbits of artificial earth satellites with allowance for light pressure
19 p2974 N84-28851
WARC and CCIR support for spectrum-orbit planning
[NASA-CR-163048] 19 p2979 N84-28884
LANDSAT-5 orbit adjust maneuver report
[E84-10155] 19 p3039 N84-29276
Solar cell degradation in proton radiation orbits
19 p3045 N84-29315
Satellite orbit theories based on the elimination of the parallax 19 p3118 N84-29819
Inclined geosynchronous satellites
19 p3119 N84-29820
An adaptive satellite orbit estimation scheme using an analytical approach and a dynamical model compensation technique 19 p3119 N84-29821
Periodic orbits and libration in the Mimas-Tethys case
19 p3121 N84-29839
Lageos orbit and solar eclipses
20 p3221 N84-30465
Verification of the accuracy of GEM-L2 in response to criticism by Lambeck and Coleman
20 p3221 N84-30466
The ERODYN and QRPIG computer programs
20 p3221 N84-30468
Proton-induced single event upsets in the SBP9989 microprocessor
[AD-A142448] 20 p3266 N84-30724
Angles-only, ground-based, initial orbit determination
[AD-A142994] 21 p3348 N84-31241
Comparison of analytical theories for studying the contraction of artificial satellite orbits
[INPE-2748-PRE/322] 22 p3540 N84-32409
Low thrust orbit optimization for interplanetary missions, volume 1
[ESA-CR(P)-1904-VOL-1] 23 p3697 N84-33430
Low thrust orbit optimization for interplanetary missions, volume 2
[ESA-CR(P)-1904-VOL-2] 23 p3697 N84-33431
History of on-orbit satellite fragmentations
[NASA-CR-171814] 24 p3859 N84-34461

SATELLITE ORIENTATION
Gravitational orientation of the orbital complex, Salyut-6--Soyuz
[NASA-TM-77299] 07 p0961 N84-16228
Changing gain versus area of stability for a scalar, modal controller
[AD-A136804] 10 p1436 N84-19385
More optimal searches
[AD-A136934] 10 p1436 N84-19387
Global positioning system satellite selection evaluation for aided inertial navigation
[AD-A138070] 12 p1767 N84-21527
Formulation of theory of artificial earth satellite motion by Hori-Deprit method 19 p2974 N84-28852

SATELLITE PERTURBATION
Effects of small-scale plasma disturbance on the IKB-1300 spacecraft potential
[PR-839] 06 p1109 N84-17208
The orbit of Lageos and solar eclipses
[NASA-TM-86076] 12 p1923 N84-22525
Utilization of satellite observations to determine the mean orbital elements
[LFD-219] 15 p2269 N84-24827
Comment on coupled perturbations on orbits of artificial earth satellites 19 p3119 N84-29824
Non-integrability of planar oscillation equation for satellite in elliptical orbit 21 p3489 N84-32109
Comparison of analytical theories for studying the contraction of artificial satellite orbits
[INPE-2746-PRE/322] 22 p3540 N84-32409
SATELLITE RENDEZVOUS
U ORBITAL RENDEZVOUS
SATELLITE ROTATION
Capture-ejector satellites
[NASA-TM-85686] 06 p0795 N84-15179
Low thrust bipropellant engine development 20 p3136 N84-29912
SATELLITE SOUNDING
The Active Magnetospheric Particle Tracer Explorers (AMPTE) program 05 p0641 N84-14216
Ion coupling to magnetosheath bulk motion — Active Magnetospheric Particle Tracers Explorers (AMPTE) program 05 p0641 N84-14217
Mesoscale moisture fields retrieved from satellite infrared radiances in nocturnal inversion cases 05 p0705 N84-14629
A statistical technique for forecasting severe weather from vertical soundings by satellite and radiosonde
[PB84-114099] 08 p1192 N84-17772
The special effort processing of FGGE data
[NASA-CR-175214] 10 p1524 N84-19986
Satellite measurements of radiation budgets — conferences
[BMFT-FB-W-83-025] 10 p1533 N84-20044
FGGE data impact studies in the Southern Hemisphere 12 p1850 N84-22054
Comparison of AMSU temperature soundings with those produced by HIRS and AMTS 12 p1851 N84-22057
Results of the joint NASA/NOAA AMTS/HIRS2 sounding simulation test 12 p1851 N84-22059
High resolution GLAS on the MCIDAS 12 p1852 N84-22062
A new algorithm for tuning of computed radiances for HIRS2/MSU 12 p1852 N84-22063
The prediction of tropopause height from clusters of brightness temperatures and its application in the stratified regression temperature retrievals using microwave and infrared satellite measurements 12 p1852 N84-22064
Applications of cluster analysis to satellite soundings 12 p1852 N84-22065
Space research and cosmic plasma physics
[TRITA-EPP-83-06] 12 p1922 N84-22520
Case studies of NOAA 6/TIROS N data impact on numerical weather forecasts 17 p2717 N84-27294
The impact of satellite temperature soundings on the forecasts of a small national meteorological service 17 p2717 N84-27295
Further analysis of plasma bursts in high-latitude boundary layer of earth 19 p2973 N84-28847
Passive microwave remote sensing of the atmosphere from satellites 23 p3774 N84-33923
Applications of the AVE-Sesame data sets to mesoscale studies 24 p3931 N84-34886
Satellite Precipitation and Cloud Experiment (SPACE) 24 p3931 N84-34887
NSSFC: VAS assessment activities 24 p3932 N84-34891
A statistical evaluation and comparison of VISSR Atmospheric Sounder (VAS) data 24 p3932 N84-34892
VAS sounding data evaluation 24 p3933 N84-34893
SATELLITE SURFACES
Large space instrumentation to measure the interaction between space structures and the environment
[AD-A129990] 01 p0028 N84-10179
Photometric properties of Europa and the icy satellites of Saturn 11 p1758 N84-21485
Geologic studies of outer solar system satellites: Iapetus and Europa 13 p2075 N84-23448
The 1950 sulfur flow of Mauna Loa: Considerations for Io 13 p2080 N84-23479
Phobos: Close encounter imaging from the Viking Orbiters
[NASA-RP-1109] 21 p3525 N84-32330
Voyager 1 and 2 atlas of six Saturnian satellites
[NASA-SP-474] 24 p3989 N84-35242
Planetary tectonics 24 p3990 N84-35247
SATELLITE TELEVISION
Sun focusing by satellite antenna reflectors 10 p1445 N84-19439
SATELLITE TEMPERATURE
Comparisons of Naval Air Station, NOWRA oceanographic analyses with independently obtained ship and satellite data
[AD-A136462] 10 p1526 N84-19994
A review of the in-orbit thermal performance of Maritime Communications Satellite (MCS)-A
[MBB-UR-641-83-O] 16 p2563 N84-26443
SATELLITE TRACKING
NT SATELLITE-TO-SATELLITE TRACKING
Satellite-tracking and Earth dynamics research programs
[NASA-CR-173182] 07 p0962 N84-16233
Basic research for the geodynamics program
[NASA-CR-175337] 07 p1032 N84-16699
The oceangoing space survey ship, the Wang Yuan
[AD-A135514] 08 p1108 N84-17204
Study on optimal tracking strategy — satellite tracking
[GMV-211/83] 08 p1113 N84-17243
Algorithm for real time control of non linear systems with application to the control satellite alignment systems
[INPE-2755-PRE/331] 09 p1265 N84-18263
The observation of artificial satellites and VLBI 10 p1519 N84-19946
Satellite tracking and Earth dynamics research programs
[NASA-CR-173502] 14 p2112 N84-23661
Modeling the movement at the polar ice cap at the South Pole 14 p2164 N84-23957
Colocation stationkeeping of geostationary satellites 19 p3121 N84-29836
Angles-only, ground-based, initial orbit determination
[AD-A142994] 21 p3348 N84-31241
Ku-Band rendezvous radar performance computer simulation model
[NASA-CR-171804] 22 p3576 N84-32650
The derivation of the mapping equations and distortion formulae for the satellite tracking map projections
[AD-A143683] 23 p3784 N84-33998
SATELLITE TRANSMISSION
Mobile radio alternative systems study satellite/terrestrial (hybrid) systems concepts
[NASA-CR-168064] 01 p0061 N84-10404
A 20-GHz IMPATT transmitter, summary 02 p0212 N84-11386
Phase A study for a test satellite for propagation and transmission experiments in the 20/30 GHz frequency band
[BMFT-FB-W-83-009] 03 p0362 N84-12355
L band satellite communication experiment in the Antartic
[ESA-TT-805] 03 p0362 N84-12356
The satellite applications of amplitude companded single sideband modulation 06 p0827 N84-15391
Satellite broadcasting: Protection ratio requirements for enhanced transmissions using extended PAL vision and digital sound signals
[BBC-RD-1983/18] 07 p0986 N84-16386
Digital sound service for direct broadcasting satellites 08 p1146 N84-17462
Pluribus satellite IMP (Interface Message Provision) development mobile access terminal network
[AD-A136256] 09 p1298 N84-18486
The Apollo concept: Electronic document delivery by satellite
[ESA-SP-1048] 09 p1405 N84-19179
Attenuation data bank in the project COST 205: Generation, control, and preliminary analysis --- rain attenuation, microwaves
[FUB-2-1983] 10 p1483 N84-19693
LANDSAT-D communication systems in-orbit performance 10 p1523 N84-19972
Equatorial scintillation of satellite signals and some drift characteristics of the scintillation
[AD-A137555] 11 p1642 N84-20736
Analysis of propagation conditions at 20 and 30 GHz in Europe
[CRPE-NT-122] 13 p1984 N84-22880
Satellite Data Transmission (SDT) requirement
[NASA-CR-175231] 15 p2319 N84-24920
Ice depolarization on low-angle 2 GHz satellite downlinks 15 p2323 N84-24948
Study of in-orbit test techniques for multibeam satellites
[LL3-17] 16 p2456 N84-25748
Estimation of the parameters of an unmodulated carrier signal disturbed by complex-multiplicative and additive Gaussian noise
[ESA-TT-737] 16 p2482 N84-25914
WARC and CCIR support for spectrum-orbit planning
[NASA-CR-163048] 19 p2979 N84-28884
Electronic Switching Spherical Array (ESSA) antenna systems
[NASA-TM-86127] 22 p3572 N84-32621
FM synthesizer-modulator with 1200 channels for SCPC transmission of voice signals by satellite — single channel per carrier transmission
[INPE-2815-PRE/371] 23 p3730 N84-33638
Photovoltaic power system for satellite Earth stations in remote areas: Project status and design description
[NASA-TM-83789] 23 p3730 N84-33642
Satellite communication of real-time packet video images
[AD-A143613] 23 p3730 N84-33643
SATELLITE-BORNE INSTRUMENTS
On the assessment of errors due to antenna pattern imperfections: Executive summary — satellite-borne imaging microwave radiometer
[TUD-R-253] 02 p0210 N84-11378
System definition Roentgensatellit, phase B 1.2
[BMFT-FB-W-83-010] 03 p0342 N84-12219
Layout of a SAR sensor for Spacelab and satellite. Part 1: Design considerations for fundamental SAR parameters
[ESA-TT-802] 03 p0343 N84-12224
The HCMM system: Development and performance 05 p0696 N84-14570
Study of the combined use of data from satellite thermal infrared and microwave sensors for soil moisture detection
[PB83-252734] 05 p0698 N84-14582
A comprehensive description of the mission sensor microwave imager (SSM/I) environmental parameter extraction algorithm
[AD-A134052] 05 p0759 N84-14976
NASA needs and trends in cryogenic cooling 06 p0818 N84-15329
Spaceborne radar research in the 1980's 07 p0990 N84-16417
Incident velocity distributions on sampling electrodes of spacecraft plasma instruments 08 p1117 N84-17267
A study of satellite radar altimeter operation over ice-covered surfaces
[ESA-CR(P)-1810] 08 p1179 N84-17683
The magnetic-field investigation on ISPM 09 p1260 N84-18230
Spaceborne Gravity Gradiometers
[NASA-CP-2305] 09 p1335 N84-18716
Spaceborne Gravity Gradiometers. Part 1: Summary and recommendations 09 p1335 N84-18717
Thermal design features of Rosat X-ray telescope 10 p1445 N84-19443
Exact solution for emission from surface elements of a planet --- to spaceborne telescopes 10 p1447 N84-19453
On the use of narrow band infrared channels to determine the outgoing long wave flux — satellite radiometry 10 p1534 N84-20051
The eddy field of the Central North Atlantic
[AD-P002664] 11 p1691 N84-21029
Study of advanced signal processing and calibration for IRES (infrared sensors)
[REPT-458-DT-5] 12 p1782 N84-21628
Remote sensing of Earth terrain 12 p1831 N84-21938
Discrete random media techniques for microwave modeling of vegetated terrain 12 p1832 N84-21939
Atmospheric effects on remote sensing of the Earth's surface 12 p1832 N84-21943
Bidirectional spectral reflectance of Earth resources: Influence of scene complexity and atmospheric effects on remote sensing 12 p1833 N84-21946
Satellite-derived sea surface temperature: Introduction 12 p1834 N84-21958
In situ data 12 p1835 N84-21959
Satellite data 12 p1835 N84-21960
Feasibility study of advanced optical techniques for ocean color measurement — satellite-borne
[MBB-R3700/292] 12 p1837 N84-21974
Investigation of dynamic noise affecting geodynamics information in a tethered subsatellite
[NASA-CR-173558] 15 p2319 N84-24923
Measurements of rain attenuation at 12 GHz with the BSE
[NHK-LN-292] 15 p2370 N84-25218
Laser ranging technology for space to space applications. Volume 2: High stability CO2-laser for range rate finder development of critical technologies
[ESA-CR(P)-1877] 17 p2673 N84-27035
Doppler observation campaign in the Ivory Coast: Reconnaissance, measuring, interpretation and experience 19 p3040 N84-29289
Spectral characterization of the LANDSAT Thematic Mapper sensors 20 p3207 N84-30372
Pre-launch absolute radiometric calibration of LANDSAT-4 protoflight Thematic Mapper 20 p3207 N84-30373

SEASAT altimetry for surface height of inland seas
20 p3222 N84-30472
Recommended program activities, 1988-1998
20 p3223 N84-30478
The advantages of sounding with the smaller detectors of the VISSR atmospheric sounder
[NOAA-TM-NESDIS-8] 20 p3240 N84-30571
Preliminary investigations concerning a 90 GHz radiometer satellite experiment
23 p3781 N84-33978
Feasibility study on the application of Fabry-Perot interferometry and imaging photon detectors to ocean colour monitoring
[OMD/HVM-83] 23 p3784 N84-34002
Space laser applications and technologies (SPLAT) — conference
[ESA-SP-202] 24 p3903 N84-34715
Space laser applications in geophysics
24 p3903 N84-34719
Spaceborne lasers in atmospheric research
24 p3904 N84-34721
An ER-2 aircraft airborne lidar as part of the development program of a spaceborne system: A potential NASA/CNES cooperative project 24 p3907 N84-34744
Differential absorption lidar in space for temperature and humidity profiles in the atmosphere
24 p3907 N84-34748
Design criteria for space based laser ranging systems
24 p3908 N84-34751
Laser diode range finder - target acquisition and tracking system functional model/demonstration model
24 p3908 N84-34754
Analysis of satellite data for sensor improvement (detection of severe storms from space)
24 p3932 N84-34888

SATELLITE-BORNE PHOTOGRAPHY
Test of the use of LANDSAT imagery to detect changes in the area of forest in the tropics
[DE84-004444] 08 p1179 N84-17680
Weather satellites
[KNMI-152-BV-3] 18 p2602 N84-27783
A study of tropical cyclone intensity from satellite imagery 24 p3956 N84-35048
Voyager 1 and 2 atlas of six Saturnian satellites
[NASA-SP-474] 24 p3989 N84-35242

SATELLITE-BORNE RADAR
Propagation effects in satellite-borne synthetic aperture radars 06 p0867 N84-15650
Spaceborne Imaging Radar Symposium
[NASA-CR-173186] 07 p0967 N84-16390
Geologic application of spaceborne radars
07 p0967 N84-16391
Solid state transmitters for spaceborne radars
07 p0968 N84-16396
Spaceborne lidar applications to meteorology and environmental studies 24 p3904 N84-34725
Spaceborne lidar investigations of the atmosphere
24 p3907 N84-34743
Design of a spaceborne lidar for measurements from operational satellites 24 p3907 N84-34745

SATELLITE-TO-SATELLITE TRACKING
Laser range finding technology for space to space applications. Volume 1: Laser diode range finder functional model
[MBB-UR-606-83-O-VOL-1] 09 p1324 N84-18648
Performance capabilities of laser ranging sensors — space applications 24 p3904 N84-34726
The concept of the Low Intermediate Frequency Translation Loop (LIFTL) and its application on a CO2 laser intersatellite data link system
24 p3905 N84-34733
Pointing, acquisition and tracking for intersatellite optical data links 24 p3905 N84-34735

SATELLITES
NT ACTIVE SATELLITES
NT AERONAUTICAL SATELLITES
NT APPLICATIONS EXPLORER SATELLITES
NT ARTIFICIAL SATELLITES
NT ASTRONOMICAL NETHERLANDS SATELLITE
NT BIOSATELLITES
NT CALLISTO
NT COMMUNICATION SATELLITES
NT COSMIC BACKGROUND EXPLORER SATELLITE
NT COSMOS SATELLITES
NT COSMOS 1129 SATELLITE
NT DMSP SATELLITES
NT DYNAMICS EXPLORER SATELLITES
NT DYNAMICS EXPLORER 1 SATELLITE
NT DYNAMICS EXPLORER 2 SATELLITE
NT EARTH SATELLITES
NT ENVIRONMENTAL RESEARCH SATELLITES
NT ERS-1 (ESA SATELLITE)
NT ESA SATELLITES
NT EUROPA
NT EUROPEAN COMMUNICATIONS SATELLITE
NT EXOSAT SATELLITE
NT EXPLORER SATELLITES
NT GALILEAN SATELLITES
NT GANYMEDE
NT GEODETIC SATELLITES
NT GEOS 1 SATELLITE
NT GEOS 2 SATELLITE
NT GOES SATELLITES
NT GRAVITY GRADIENT SATELLITES
NT GRAVSAT SATELLITE
NT HEAO 1
NT HEAO 2
NT HELIOS A
NT HELIOS B
NT HELIOS SATELLITES
NT HELIOS 1
NT HELIOS 2
NT HIPPARCOS SATELLITE
NT IAPETUS
NT INFRARED ASTRONOMY SATELLITE
NT INTELSAT SATELLITES
NT INTERNATIONAL SUN EARTH EXPLORER 1
NT INTERNATIONAL SUN EARTH EXPLORER 2
NT INTERNATIONAL SUN EARTH EXPLORER 3
NT INTERNATIONAL SUN EARTH EXPLORERS
NT IO
NT IUE
NT JUPITER SATELLITES
NT L-SAT
NT LAGEOS (SATELLITE)
NT LANDSAT SATELLITES
NT LANDSAT 4
NT LANDSAT 5
NT LONG DURATION EXPOSURE FACILITY
NT MAGSAT SATELLITES
NT MARITIME SATELLITES
NT MAROTS (ESA)
NT METEOROLOGICAL SATELLITES
NT METEOSAT SATELLITE
NT MIMAS
NT MOON
NT NATURAL SATELLITES
NT NAVIGATION SATELLITES
NT NAVSTAR SATELLITES
NT NIMBUS SATELLITES
NT NIMBUS 5 SATELLITE
NT NIMBUS 7 SATELLITE
NT NOAA SATELLITES
NT NOAA 6 SATELLITE
NT NOAA 7 SATELLITE
NT NOAA 8 SATELLITE
NT OAO 3
NT ORBITAL SPACE STATIONS
NT OTS (ESA)
NT PROGNOZ SATELLITES
NT RCA SATCOM SATELLITES
NT RELAY SATELLITES
NT ROSAT MISSION
NT SAN MARCO SATELLITE
NT SARSAT
NT SATURN SATELLITES
NT SCATHA SATELLITE
NT SCIENTIFIC SATELLITES
NT SEASAT SATELLITES
NT SEASAT 1
NT SHUTTLE PALLET SATELLITES
NT SIRIO SATELLITE
NT SIRS B SATELLITE
NT SMS 2
NT SOLAR MESOSPHERE EXPLORER
NT SOLAR POWER SATELLITES
NT SPOT (FRENCH SATELLITE)
NT SYNCHRONOUS METEOROLOGICAL SATELLITE
NT SYNCHRONOUS SATELLITES
NT TDR SATELLITES
NT TETHERED SATELLITES
NT TETHYS
NT TIROS N SERIES SATELLITES
NT TITAN
NT UK SATELLITES
NT VENERA SATELLITES
Dynamics of Saturn's rings 02 p0307 N84-12017
Radar investigations of asteroids
[NASA-CR-175348] 07 p1092 N84-17100
Significant NASA inventions available for licensing in foreign countries
[NASA-SP-7038(07)] 09 p1399 N84-19134
Compression and Decompression of Imaging Sensor Signals (CADISS): An image (de)compression system for deep space application
[NLR-MP-83026-U] 15 p2390 N84-25339
Stability of periodic oscillations of almost axisymmetric satellite in plane of elliptical orbit
17 p2650 N84-26945
Leak detector for spacecraft testing with high accuracy 24 p3983 N84-34486

SATURATED HYDROCARBONS
U ALKANES

SATURATION
Saturation processes in dopplar-broadened HF vibrational transitions
[AD-A134282] 07 p1009 N84-16546

SATURN (PLANET)
Telecommunications and data acquisition systems support for Voyager missions to Jupiter and Saturn, 1972-1981, prelaunch through Saturn encounter
[NASA-CR-174571] 02 p0183 N84-11186
Origin and evolution of the Saturn system
[NASA-TM-85847] 04 p0621 N84-14096
Outer satellite atmospheres: Their extended nature and planetary interactions
[NASA-CR-174579] 05 p0764 N84-15013
Planetary geometry handbook: Saturn positional data, 1985 - 2020, volume 5
[NASA-CR-173195] 07 p1091 N84-17099
Saturn's ionosphere: Inferred electron densities
[NASA-TM-85121] 07 p1092 N84-17102
Origin and evolution of the Saturn system
13 p2073 N84-23433
Cratering history of the Saturnian satellites
13 p2079 N84-23473
Analysis of Voyager observations of ion and electron phase space densities in the magnetospheres of Jupiter and Saturn 16 p2580 N84-26548
The Z3 model of Saturns magnetic field and the Pioneer 11 vector helium magnetometer observations
[NASA-TM-86118] 17 p2776 N84-27823
Temporal albedo variations in Saturn's atmosphere
17 p2776 N84-27827
The S-9 ephemeride of Phoebe with an analysis pf the observation 19 p3119 N84-29826
The puzzling dynamics of Saturn's F-ring
19 p3119 N84-29827
Plasma electron analysis: Voyager plasma science experiment
[NASA-TM-85037] 24 p3989 N84-35243
Meteorite bombardment and dating of planetary surfaces
[NASA-TM-77558] 24 p3991 N84-35260
Wet model of Saturn's ionosphere: Water from the rings
[NASA-TM-86144] 24 p3992 N84-35262

SATURN ATMOSPHERE
Saturn's outer magnetosphere
[NASA-TM-85105] 01 p0165 N84-11084
Radio scintillations observed during atmospheric occultations of Voyager: Internal gravity waves at Titan and magnetic field orientations at Jupiter and Saturn
21 p3525 N84-32331
Particle excitation, airglow and H2 vibrational disequilibrium in the atmosphere of Jupiter
[NASA-CR-173930] 23 p3843 N84-34383
Wet model of Saturn's ionosphere: Water from the rings
[NASA-TM-86144] 24 p3992 N84-35262

SATURN PROJECT
Voyager 1 and 2 atlas of six Saturnian satellites
[NASA-SP-474] 24 p3989 N84-35242

SATURN RINGS
Solar system history as recorded in the Saturnian ring structure
[NASA-CR-174477] 02 p0307 N84-12013
Dynamics of Saturn's rings 02 p0307 N84-12017
Origin and evolution of the Saturn system
[NASA-TM-85847] 04 p0621 N84-14096
Voyager observations of Saturn's rings. 1: The eccentric rings at 1.29, 1.45, 1.95 and 227 Rs
06 p0937 N84-16087
The puzzling dynamics of Saturn's F-ring
19 p3119 N84-29827
Trapped particle absorption by the Ring of Jupiter
[NASA-CR-173919] 22 p3679 N84-33323
Saturn's rings: 3-mm low-inclination observations and derived properties
[NASA-TM-87363] 23 p3844 N84-34387
Numerical simulations of collisions in self-gravitating systems 24 p3987 N84-35237
Wet model of Saturn's ionosphere: Water from the rings
[NASA-TM-86144] 24 p3992 N84-35262

SATURN SATELLITES
NT IAPETUS
NT MIMAS
NT TETHYS
NT TITAN
Photometric properties of Europa and the icy satellites of Saturn 11 p1756 N84-21465
Origin and evolution of the Saturn system
13 p2073 N84-23433
Geology of Dione 13 p2074 N84-23444
Cratering history of the Saturnian satellites
13 p2079 N84-23473

The S-9 ephemeride of Phoebe with an analysis pf the obeservation 19 p3119 N84-29826
The puzzling dynamics of Saturn's F-ring 19 p3119 N84-29827
Shock vaporization and the accretion of the icy satellites of Jupiter and Saturn
[NASA-CR-173767] 19 p3122 N84-29843
Voyager 1 and 2 atlas of six Saturnian satellites
[NASA-SP-474] 24 p3989 N84-35242

SAUDI ARABIA
Age discrimination among basalt flows using digitally enhanced LANDSAT imagery — Saudi Arabia
[E84-10189] 21 p3430 N84-31760

SAVANNAHS
U GRASSLANDS

SAWS
The use of diamond core saws in the electronics industry
[CSIR-TRANS-1702] 08 p1140 N84-17417
Electric arc saw apparatus
[DE84-006153] 20 p3196 N84-30308
Monolithic SAW oscillators on silicon
[AD-A143664] 23 p3741 N84-33716
Precision cutting of millimeter wave ferrite materials
[AD-D011179] 24 p3891 N84-34639
X33 cut quartz for temperature compensated saw devices
[AD-D011200] 24 p3903 N84-34713

SCALAR MAGNETIC CHARGE
U MAGNETIC CHARGE DENSITY

SCALARS
High resolution schemes and the entropy condition
[NASA-CR-172218] 01 p0128 N84-10836
Stable equilibria in a scalar parabolic equation with variable diffusion
[AD-A131221] 01 p0134 N84-10877
Accuracy of stable schemes for 2D scalar conservation laws
[DE84-004989] 08 p1222 N84-17976
A study of waves on a curved space-time 08 p1237 N84-18083
On the robust rank analysis of linear models with nonsymetric error distributions
[AD-A135792] 09 p1377 N84-18994
Orbit connections in a parabolic equation
[AD-A135986] 09 p1378 N84-18999
Vectorization of a penalty function algorithm for well scheduling 10 p1582 N84-20233
Rank-based inference for linear models: Asymmetric errors
[AD-A138404] 12 p1894 N84-22340
Documentation of the GLAS fourth order general circulation model. Volume 2: Scalar code
[NASA-TM-86064-VOL-2] 14 p2179 N84-24049
Riemann solvers, the entropy condition and high resolution difference approximations
[AD-P002945] 14 p2196 N84-24185
Adaptive coherence estimation
[DE84-006486] 15 p2393 N84-25361
Representation of TEM feidls in gyrotropic media by scalar Hertz potentials
[ISSN-0206-5658] 19 p3003 N84-29034
Smoothing on the frequency domain
[INPE-3182-PRE/547] 21 p3471 N84-31997

SCALE (CORROSION)
Protective oxide films
[DE84-004088] 10 p1481 N84-19543
Scale prevention and removal by hydrodynamic fluid treatment 11 p1640 N84-20721
The influence of Al2O3 and surface scales on alloy degradation at elevated temperatures
[DE84-007299] 15 p2298 N84-24794

SCALE (RATIO)
An example of computer aided generalization of TK 25 — topographical map 1:25,000 (TK 25) 20 p3227 N84-30504

SCALE EFFECT
Scaling theorems for zero-crossings
[AD-A131599] 02 p0281 N84-11839
Practical solutions to simulation difficulties in subscale wind tunnel tests 14 p2097 N84-23581
Interpretation of combined LANDSAT-Heat Capacity Mapping Mission (HCMM) data for geological analysis. Evaluation of scale effect on interpretation of a multisource image 23 p3769 N84-33894
A kinetic energy study of the meso beta-scale storm environment during AVE-SESAME 5 (20-21 May 1979)
[NASA-CR-3620] 23 p3800 N84-34090

SCALE MODELS
Study on small scale model tests for reinforced concrete structures- small scale model tests by using 3mm diameter deformed re-bars
[PB83-224832] 01 p0059 N84-10390
Selected aspects of radio interference from HVDC (High Voltage Direct Current) converter stations
[PB83-219675] 01 p0075 N84-10494
The salt-gradient solar pond
[AD-A126702] 06 p0873 N84-15683
Scaling wind characteristics for designing small and large wind turbines
[DE83-014501] 06 p0880 N84-15726
Assessment methodology for the A-7E: Scale model coupling experiments
[DE84-003139] 09 p1256 N84-18199
Scale model testing for control system parameters of large structures
[AD-A135652] 09 p1273 N84-18313
Design and testing of scaled ejector-diffusers for jet engine test facilty applications
[AD-A136745] 10 p1432 N84-19364
Spacecraft thermal balance testing using infrared lamps on a dummy spacecraft 10 p1439 N84-19399
Characterization of microstrip fixtures, a broadband model for a microstrip connector
[FOA-C-30338-E] 12 p1814 N84-21824
The 310 airbus test in the ONERA wind tunnel: Flight-wind tunnel comparison 14 p2098 N84-23587
The accelerated light model technique of store separation as developed and used at British Aerospace, Brough 14 p2099 N84-23597
Pretest plan for a quarter scale AFT segment of the SRB filament wound case in the NSWC hydroballistics facility — space shuttle boosters
[NASA-CR-171028] 15 p2281 N84-24699
Water impact test of aft skirt end ring, and mid ring segments of the Space Shuttle Solid Rocket Booster
[NASA-CR-171027] 16 p2457 N84-25752
Optimum backscatter cross section of the ocean as measured by synthetic aperture radars 17 p2714 N84-27276
Preliminary indications of water film distribution and thickness on an airfoil in a water spray
[NASA-TM-85796] 18 p2785 N84-27677
Experimental investigation of elastic mode control on a model of a transport aircraft
[NASA-CR-3472] 18 p2792 N84-27721
SRB/FWC water impact: Flexible body loads test
[NASA-CR-173786] 19 p3021 N84-29156
Preliminary engineering report for design of a subscale ejector/diffuser system for high expansion ratio space engine testing
[NASA-CR-171137] 21 p3354 N84-31273
Recycling conform design 23 p3705 N84-33488
An R and D model of a synthetic aperture radar antenna 23 p3777 N84-33949

SCALERS
Automatic real time ionogram scaler with true height analysis - artist
[AD-A135174] 08 p1187 N84-17732

SCALING
Centroid scaling of citation data: Charting the history of a scientific specialty, plate tectonics 01 p0104 N84-10673
Corrosion behavior of Fe-Cr-Ni-Zr alloys in aggressive environments at high temperatures
[DE83-014735] 03 p0353 N84-12297
Diffusion modeling with convective scaling and effects of surface inhomogeneities
[PB84-210053] 22 p3627 N84-32981

SCALING LAWS
Numerical calculation of the transonic potential flow past a cranked wing
[NASA-TM-84391] 01 p0008 N84-10049
Representations of perceptions of risks
[AD-A131443] 01 p0117 N84-10759
Size scale effect in cavitation erosion
[NASA-TM-83533] 02 p0193 N84-11254
Numerical simulation of convective scaling 03 p0406 N84-12660
Study of excited state energy transfer processes
[AD-A131777] 03 p0433 N84-12837
Constraints on the scale of toroidal-fusion experiments with application to the design of a helical-axis stellarator
[DE83-016812] 03 p0449 N84-12950
Scaling laws on fire spread 04 p0513 N84-13368
Analysis of stability and symmetry implications for ICF
[DE84-000640] 04 p0540 N84-13556
Conceptual design of a 300-GeV accelerator based on the inverse free-electron laser mechanism
[DE84-001471] 04 p0601 N84-13969
Beam Plasma Discharge (BPD) experiments in the laboratory 05 p0638 N84-14197
Copper vapor laser scale demonstration
[AD-A133327] 06 p0850 N84-15543
Redundancy relations and robust failure detection
[NASA-CR-173252] 07 p1058 N84-16854
Plasma effects on Heliac configurations: A preliminary investigation
[DE84-002299] 07 p1077 N84-17002
Real-time implementation of a speech digitization algorithm combining time-domain harmonic scaling and adaptive residual coding, volume 1
[AD-A135232] 08 p1150 N84-17485
Real-time implementation of a speech digitization algorithm combining time-domain harmonic scaling and adaptive residual coding, volume 2
[AD-A135233] 08 p1150 N84-17486
An algebraic approach to analysis and control of time-scales
[AD-A135115] 08 p1218 N84-17949
Fixed point implementations of fast Kalman algorithms
[AD-A136188] 09 p1378 N84-19005
Decomposition and scaling-inequality for line-sum-symmetric nonnegative matrices
[DE84-005639] 11 p1719 N84-21211
Atomic and molecular processes in discharge cleaning plasmas 11 p1736 N84-21322
The 100 GHz, 1 MW, CW gyrotron study program
[DE84-005751] 12 p1813 N84-21819
Deconvolution based on source scaling applied to teleseismic signals — nuclear explosion monitoring
[FOA-C-20514-T1] 12 p1848 N84-22046
Quantification of subjective ratings through conjoint measurement analysis
[AD-A138810] 13 p1930 N84-22554
Fingerprint theorems for zero-crossings
[AD-A139181] 14 p2212 N84-24280
Scaling of the beam plasma discharge for low magnetic fields
[AD-A139415] 14 p2229 N84-24363
Blast-wave analysis of high-pressure coupling shells
[AD-A139687] 15 p2350 N84-25106
Scaling and modeling of three-dimensional, end-wall, turbulent boundary layers
[NASA-CR-3792] 16 p2485 N84-25941
Vortex lifted stone ingestion: The influence of stone diameter
[BAE-KRS-N-GEN-276] 17 p2603 N84-26676
Centrifugal scaling laws for ground launch cruise missile shelter
[AD-A141572] 19 p2969 N84-28818
Local uniform mesh refinement with moving grids
[AD-A141782] 19 p3088 N84-29602
Theoretical and experimental studies of error in square-law detector circuits
[NASA-TM-86307] 23 p3741 N84-33714
Group-kinetic scaling as a basis for modeling large scale turbulence 24 p3926 N84-34848

SCANDIUM COMPOUNDS
Research and crystal growth on high dielectric constant materials for mm wave applications
[AD-A144412] 24 p3967 N84-35119

SCANNERS
NT COASTAL ZONE COLOR SCANNER
NT HORIZON SCANNERS
NT INFRARED SCANNERS
NT MULTISPECTRAL BAND SCANNERS
NT OPTICAL SCANNERS
NT ULTRASONIC SCANNERS
Performance analysis of a three-dimensional microwave lens in a cylindrical array scanning application
[AD-A131891] 03 p0360 N84-12345
Self-correcting electronically scanned pressure sensor
[NASA-CASE-LAR-12686-1] 05 p0683 N84-14491
The development of efficient coding for an electronic mail system
[NASA-CR-173201] 07 p0992 N84-16429
Pulsed heterodyne CO2 laser/scanner system. Volume 1: Assembly report
[AD-A135058] 08 p1164 N84-17577
Pulsed heterodyne CO2 laser/scanner system. Volume 2: Operating instructions
[AD-A135060] 08 p1164 N84-17578
Ultrastructural effects of radiation on cells and tissues: Concluding remarks
[DE84-003454] 10 p1545 N84-20131
Two-dimensional scanner apparatus — flaw detector in small flat plates
[NASA-CASE-MFS-25687-1] 13 p1992 N84-22928
Electronic scanning pressure measuring system and transducer package
[NASA-CASE-ARC-11361-1] 13 p1993 N84-22934
Programmable scan/read circuitry for charge coupled device imaging detectors — spacecraft attitude control and star trackers
[NASA-CASE-NPO-15345-1] 13 p2042 N84-23247
Structural studies of the northwest Iberian continental margin using long-range side-scan sonar
[IOS-161] 15 p2306 N84-25196
Scanning photoelectric devices of search and tracking
[AD-A132566] 17 p2671 N84-27027
The role of the Automated Plate Measuring (APM) machine in developing a program to discover QSOs automatically 18 p2843 N84-28054

RIMSTAR: Rapid image scanning technology and archiving 18 p2643 N84-28055
A compact fully overlapping subarray antenna [AD-P003407] 19 p3015 N84-29111
A system for automatic digitization of cartographic line drawings 20 p3227 N84-30506
Proceedings of the Antenna Applications Symp., volume 2 [AD-A142754] 21 p3383 N84-31467
Analysis of directivity as a function of scan angle for planar arrays of radiating slots [AD-P003503] 21 p3383 N84-31471
Characteristics and capacities of the NASA Lewis Research Center high precision 6.7- by 6.7-m planar near-field scanner [NASA-TM-83785] 22 p3598 N84-32769
Research in millimeter wave techniques [NASA-CR-173964] 24 p3893 N84-34655

SCANNING
NT CONICAL SCANNING
NT FREQUENCY SCANNING
NT RADAR SCANNING
Pilot response with conventional displays 03 p0313 N84-12040
Single pilot scanning behavior in simulated instrument flight 03 p0313 N84-12041
A test strategy for high resolution image scanners [AD-A134998] 08 p1231 N84-18048
Automatic, self-nulling, spectral scanning ellipsometer: Software for the LSI-11 data acquisition system [DE83-015007] 11 p1709 N84-21139
Bimetal and multimetal galvanic corrosion prediction using long- and short-term polarization curves [AD-A139693] 15 p2297 N84-24786
Note on the optimum search strategy for uniformly distributed CW transmitters — implications for Project Seti 16 p2480 N84-25904
An investigation of the effects of scan separation on the sensitivity of the SETI all sky survey for the case of Gaussian noise 16 p2480 N84-25905
Automation-associated revision conception of the general topographic map 1 : 200,000 using raster data 19 p3040 N84-29291
Differential scanning calorimeter data acquisition system [AD-A143118] 21 p3405 N84-31600
A 360-degree scanning antenna with cylindrical array of slotted waveguides [AD-D011189] 24 p3893 N84-34653

SCANNING DEVICES
U SCANNERS

SCANNING LASER ACOUSTIC MICROSCOPE (SLAM)
U ACOUSTIC MICROSCOPES

SCAPULA
A model of the shoulder girdle for use in rehabilitation 20 p3264 N84-30710

SCAR PROGRAM
U SUPERSONIC CRUISE AIRCRAFT RESEARCH

SCARPS
U ESCARPMENTS

SCARS (GEOLOGY)
U EROSION

SCATHA SATELLITE
SCATHA (Spacecraft charging at high altitudes) environmental atlas [AD-A131456] 02 p0185 N84-11201
A review of SCATHA satellite results: Charging and discharging 08 p1115 N84-17254
Probe measurement of DC electric fields — SCATHA satellite charging 08 p1116 N84-17255
Comparison of thermal plasma observations on SCATHA and GEOS 08 p1117 N84-17262
NASCAP simulations of spacecraft charging of the SCATHA satellite — NASA (spacecraft) charging analyzer program (NASCAP) 08 p1117 N84-17268
Summary of environmentally induced electrical discharges on the P78-2 (SCATHA) satellite [AD-A140077] 15 p2282 N84-24705

SCATTER PLATES (OPTICS)
Practical problems with CO2 laser radar tests [RAE-TRANS-2113] 22 p3600 N84-32804

SCATTER PROPAGATION
Comprehensive understanding for vegetated scene radiance relationships 12 p1833 N84-21947
Measurement and modeling of the optical scattering properties of crop canopies 12 p1833 N84-21948
Theoretical analysis of microwave propagation [AD-A143762] 23 p3731 N84-33647

SCATTERERS
U SCATTERING

SCATTERING
NT ACOUSTIC SCATTERING
NT ATMOSPHERIC SCATTERING
NT BACKSCATTERING
NT COHERENT SCATTERING
NT COMPTON EFFECT
NT CONFIGURATION INTERACTION
NT ELASTIC SCATTERING
NT ELECTROMAGNETIC SCATTERING
NT ELECTRON RUNAWAY (PLASMA PHYSICS)
NT ELECTRON SCATTERING
NT FORWARD SCATTERING
NT HALOS
NT INCOHERENT SCATTERING
NT INELASTIC SCATTERING
NT INVERSE SCATTERING
NT ION SCATTERING
NT LIGHT SCATTERING
NT MICROWAVE SCATTERING
NT MIE SCATTERING
NT NEUTRON SCATTERING
NT NUCLEAR SCATTERING
NT NUCLEON-NUCLEON SCATTERING
NT PROTON SCATTERING
NT RADAR SCATTERING
NT RAMAN SPECTRA
NT RAYLEIGH SCATTERING
NT RESONANCE SCATTERING
NT REVERBERATION
NT THOMSON SCATTERING
NT TROPOSPHERIC SCATTERING
NT WAVE SCATTERING
NT X RAY SCATTERING
The singularity expansion method applied to plane wave scattering from a lossy slab on a conducting half-space [DE83-012942] 01 p0068 N84-10442
Elastic-wave inverse scattering in non-destructive evaluation [DE83-017683] 03 p0386 N84-12513
Minimal unitary (covariant) scattering theory [DE83-014896] 03 p0435 N84-12849
Jet production and high p/sub T/ phenomena in photon-photon reactions [DE83-016397] 03 p0437 N84-12868
Splines and the Galerkin method for solving the integral equations of scattering theory [CSIR-TWISK-267] 04 p0586 N84-13873
Toward a constructive physics [DE83-016644] 04 p0594 N84-13919
Multiple scattering from a random and inhomogeneous slab 06 p0883 N84-15624
Backscattering from inhomogeneous media with irregular boundaries [AD-A134500] 07 p0993 N84-16440
Scattering distribution characteristics of rare gases reflected from metal surface with absorbed gas molecules [NAL-TR-761] 09 p1394 N84-19101
Measurement of the characteristic impedance of balanced twisted pairs using scattering parameters 11 p1725 N84-21250
Negative-ion formation from surface scattering and the Anderson correlation energy U [AD-A138390] 12 p1914 N84-22473
Inversion of experimental optical data [AD-A138979] 13 p2043 N84-23257
Spin correlations near the ferromagnetic to spin glass crossover [DE84-007385] 15 p2299 N84-24799
Dynamics of itinerant ferromagnets above T sub c [DE84-002695] 15 p2402 N84-25420
Trajectories of radio waves in linear layer with isometric inhomogeneities 17 p2631 N84-26833
Detection of space-time signal with scattering from background of isotropic noise field 17 p2632 N84-26835
Morphology of the scattering target: Fresnel and turbulent mechanisms 17 p2684 N84-27087
Investigation of sol-gel antireflection coatings [DE84-008381] 19 p3030 N84-29218
Linear and nonlinear filtering and stochastic control [AD-A142229] 19 p3093 N84-29645
The optical spectra of aerosols [AD-A141571] 19 p3104 N84-29719
Reactive resonance and angular distributions in the rotating linear model [DE84-011354] 20 p3295 N84-30919
Scattering experiments on rotational excitation of methane in collision with noble gases [MPIS-3/1984] 20 p3297 N84-30936
Optical coating materials for the ultraviolet: Selection and characterization [DE84-011504] 21 p3410 N84-31629
Scattering optical activity of chiral molecules: Circular intensity differential scattering and circular differential imaging [DE84-010712] 21 p3493 N84-32137
Improved materials for DC dynamic scattering at elevated temperatures [AD-A143076] 21 p3504 N84-32207
Energy redistribution in diatomic molecules on surfaces [DE84-011442] 21 p3505 N84-32213
Optical and infrared polarization as a probe of matter near stars 21 p3524 N84-32324
Design of locked microwave oscillators on basis of scattering parameters of transistors operating in large signal mode 22 p3570 N84-32606
Cyclotron resonant scattering of energetic electrons by electromagnetic waves in the magnetosphere 22 p3621 N84-32946
Radial distribution function as an analysis technique [DE84-013242] 22 p3665 N84-33235
Approximate methods for obtaining the complex natural electromagnetic oscillations of an object [AD-A143913] 23 p3821 N84-34229
Advanced studies of integrable systems [AD-A144122] 24 p3959 N84-35069

SCATTERING AMPLITUDE
Amplitude analysis of elastic p-p scattering at 6 GeV/c at all t's [DE83-015875] 02 p0291 N84-11909
Analytic diffraction corrections to ultrasonic scattering measurements [DE83-018080] 03 p0431 N84-12825
Recent developments in the understanding of pion-nucleus scattering [DE84-001017] 04 p0597 N84-13942
The optical spectra of aerosols [AD-A135687] 09 p1377 N84-18993
A minimum range criterion for RCS (Radar Cross-Section) measurements of a target dominated by point scatterers [AD-A138230] 12 p1807 N84-21780

SCATTERING COEFFICIENTS
Determining optical characteristics of stratospheric aerosol by multifrequency laser sounding method 11 p1670 N84-20900
Beta systems error analysis [NASA-CR-170998] 11 p1705 N84-21117
Determination of the sources of radar scattering 12 p1832 N84-21941
Effects of vegetation canopy structure on microwave scattering 12 p1832 N84-21942
Dependence of the backscattering coefficients of light ions upon angle of incidence [IPPJ-AM-34] 15 p2409 N84-25459
Analysis of normalized radar cross section (sigma-O) signature of Amazon rain forest using SEASAT scatterometer data [E84-10168] 19 p3039 N84-29278
Nordsee radar backscatter measurements data report [AD-A141914] 20 p3173 N84-30148

SCATTERING CROSS SECTIONS
Recent results in the study of heavy-ion elastic scattering at large angles [DE83-012214] 01 p0142 N84-10835
Further considerations in models of rough surface scattering [AD-A130424] 01 p0146 N84-10862
Charge transfer cross-sections for N V and S III ions interacting with hydrogen atoms in astrophysical plasmas 02 p0307 N84-12014
Implications of heavy-ion-induced satellite X-ray emission. Part 2: Production of K and L X-rays by 0.9 to 2.6 MeV/u Ar ions in thick targets of V, Cu, Nb, Ta, and Pt [DE83-015681] 03 p0453 N84-12982
A study of thick-target X-ray spectra using photonuclear reactions [AD-A132543] 04 p0596 N84-13934
Meson-exchange Hamiltonian for NN scattering and isobar-nucleus dynamics [DE83-017974] 04 p0600 N84-13959
Neutron total cross section measurements in the energy region from 47 keV to 20 MeV [DE84-001400] 04 p0601 N84-13970
Design and initial operational characteristics of a shock tube-Raman scattering calibration system [AD-A133251] 06 p0847 N84-15525
Comment on the extinct paradox [NASA-TM-85113] 06 p0917 N84-15958
Mie code AGAUS 82 [AD-A133489] 06 p0918 N84-15964
Theory of elementary excitations in intermediate valence materials [DE84-003705] 07 p1083 N84-17044
A nonintrusive nuclear monitor for measuring liquid contents in sealed vessels [NASA-TM-85754] 08 p1161 N84-17560
Preliminary investigation of an electrical network model for ultrasonic scattering [NASA-CR-3770] 08 p1168 N84-17606
Scattering and depolarization of electromagnetic waves-full wave solutions [AD-A138349] 12 p1807 N84-21782

Theoretical predictions of excitation cross sections for collisions of HF, HCl, CO, H2O, and CO2 with O(P-3)
13 p1942 N84-22630
Calculation procedures for variational, Born and exact solutions for electromagnetic scattering from two randomly separated dielectric Rayleigh cylinders
[AD-A138543] 13 p1982 N84-22865
Scattering and depolarization of electromagnetic waves--full wave solutions
[AD-A139810] 15 p2321 N84-24934
Theoretical study of neutron scattering cross sections in semiconductors
[DE84-007540] 15 p2415 N84-25498
Remote measurements of tropospheric aerosol scattering properties by an airborne high spectral resolution lidar 16 p2520 N84-26179
Fundamentals of spaceborne remote sensing: Applications of lasers, volume 1
16 p2529 N84-26238
An annotated bibliography covering generation and use of evaluated cross section uncertainty files
[BNL-NCS-51684] 16 p2566 N84-26465
A tentative unified sea model for scattering and emission 17 p2715 N84-27285
Scattering of electromagnetic waves at edge of seminfinite dielectric layer embedded in ideally conducting half-space 18 p2822 N84-27919
Band structure effects in the electronic properties of solids assessible in neutron scattering studies
[DE84-008557] 18 p2941 N84-28654
Measurements of integral state-specific cross sections of inelastic collisions between NO and noble gases
[MPIS-18/1983] 20 p3297 N84-30935
Measurements of microwave backscattering signatures of the ocean surface using X-band and Ka-band airborne scatterometer/radiometer system
23 p3771 N84-33907
Profile inversion of a planar medium with a line source or a point source 23 p3776 N84-33938
Radial inversion of TE measurements in a borehole
23 p3776 N84-33940
New method in elementary particle detection
[AD-A144057] 23 p3822 N84-34240
Study of the contributions of chemical and van der Waal forces to interaction between fluorine and Ar, Kr and Xe, using molecular beam scattering investigations of integral scattering cross sections
[MPIS-1/1984] 23 p3823 N84-34248

SCATTERING FUNCTIONS
On space-time means and everywhere defined scattering operators for nonlinear Klein-Gordon equations
[CTH-MATH-1983-13-PREPRINT]
03 p0426 N84-12793
The quantum hall effect 04 p0611 N84-14036
Polarization radiation in the planetary atmosphere delimited by a heterogeneous diffusely reflecting surface
[NASA-TM-77296] 11 p1731 N84-21292
Fundamentals of spaceborne remote sensing: Applications of lasers, volume 1
16 p2529 N84-26238
Radial inversion of TE measurements in a borehole
23 p3776 N84-33940

SCATTERING MATRIX
U S MATRIX THEORY

SCATTEROMETERS
Radar investigation of soils and sea (ERASME): C band helicopter-borne scatterometer. Application to soil moisture measurement 03 p0396 N84-12588
A user's manual for the NASA/JPL synthetic aperture radar and the NASA/JPL L and C band scatterometers
[NASA-CR-173209] 07 p0992 N84-16428
Preliminary study of (2-D) digital filtering for dealiasing NOSS wind direction data
[NASA-CR-173147] 07 p1036 N84-16721
Workshop on active microwave sensor design
08 p1177 N84-17667
Evaluation of visibility sensors at the Eglin Air Force Base climatic chamber
[AD-A135375] 08 p1190 N84-17758
Scatterometer System Simulator (SSS), phase 1: Definition — ERS-1 (ESA satellite)
[ESA-CR(P)-1788] 08 p1191 N84-17765
Flight measurement and analysis of AAFE RADSCAT wind speed signature of the ocean
[NASA-TM-85646] 08 p1194 N84-17784
Potential impact of remote sensing data on sea-state analysis and prediction
[E84-10083] 10 p1520 N84-19954
Study of wind scatterometer antenna for ERS-1. Volume 1: Executive summary report
[Y/A-3380] 13 p2017 N84-23080
Study of windscatterometer antenna for ERS-1
[MIX/A-3188] 13 p2018 N84-23081
A SEASAT SASS simulation experiment to quantify the errors related to a + or - 3 hour intermittent assimilation technique
[E84-10129] 14 p2166 N84-23987
Scatterometer capabilities in remotely sensing geophysical parameters over the ocean: The status and the possibilities 17 p2712 N84-27268
A new parameterization of an empirical model for wind/ocean scatterometry 17 p2712 N84-27269
Does the scatterometer see wind speed or friction velocity? 17 p2713 N84-27270
Scanning wind-vector scatterometers with two pencil beams 17 p2713 N84-27271
Ocean wind field measurement performance of the ERS-1 scatterometer 17 p2713 N84-27273
The dual-frequency scatterometer reexamined
17 p2714 N84-27280
An improved dual-frequency technique for the remote sensing of ocean currents and wave spectra
17 p2714 N84-27281
First global analysis of SEASAT scatterometer winds and potential for meteorological research
17 p2720 N84-27315
The importance of altimeter and scatterometer data for ocean prediction 17 p2720 N84-27316
Use of multi-frequency, multi-polarization, multi-angle airborne radars for class discrimination in a southern temperature forest 23 p3767 N84-33881
Correlation of microwave sensor returns with soil moisture 23 p3770 N84-33897
Digital filter processor design for spaceborne scatterometers 23 p3777 N84-33948
SASS 1 model function evaluation and upgrade — Seasat A Satellite Scatterometer (SASS)
23 p3778 N84-33956
NASA scatterometer research data processing system: Requirements and design 23 p3781 N84-33979
NASA scatterometer on NROSS: A system for global observations of oceanic winds — Navy Remote Ocean Sensing System (NROSS) 23 p3782 N84-33980
The in-flight calibration of a satellite-borne wind scatterometer — ERS-1 (ESA) 23 p3783 N84-33993

SCAVENGING
Acidification of rain by the oxidation of dissolved SO2 and the absorption of HNO3
[PB84-168366] 15 p2367 N84-25200

SCENE ANALYSIS
Image Understanding, 14th Workshop
[AD-A130251] 01 p0147 N84-10963
Relative elevation determination from LANDSAT imagery 03 p0392 N84-12558
Autoregressive models for use in scene segmentation
03 p0393 N84-12561
Relating spatial patterns in image data to scene characteristics 03 p0394 N84-12573
Shape from shading: An assessment
03 p0394 N84-12574
Measuring landscape information content and distribution on a SAR-580 image
03 p0397 N84-12596
Interpretability of wetland on SEASAT-A imagery in the polderland of Flanders: A structural approach
03 p0397 N84-12597
Mapping land use in Catalonia (Spain) — using LANDSAT imagery 03 p0400 N84-12613
Simulator scene display evaluation
[NASA-CASE-ARC-11504-1] 07 p0960 N84-16221
Design and prototype implementation of SCAN: A programming language for scene analysis
08 p1210 N84-17893
Science analysis by knowledge stored in associative networks
[INPE-2784-PRE/350] 09 p1368 N84-18920
Recursive interpolation of space-limited scenes
[AD-A136215] 09 p1379 N84-19007
Fundamental remote sensing science research program. Part 1: Scene radiation and atmospheric effects characterization project
[NASA-TM-86078] 12 p1830 N84-21929
NASA fundamental remote sensing science research program 12 p1830 N84-21930
Comprehensive understanding for vegetated scene radiance relationships 12 p1830 N84-21933
Reflectance modeling 12 p1831 N84-21935
Machine vision: Three generations of commercial systems
[AD-A139037] 13 p2024 N84-23123
Experiments to correct a digital map data base using scene analysis
[AD-A139447] 14 p2248 N84-24499
Intraband radiometric performance of the LANDSAT-4 Thematic Mapper 20 p3209 N84-30389
Spatial resolution estimation of LANDSAT-4 TM data
20 p3210 N84-30394
A computational paradigm for three dimensional scene analysis
[AD-A143963] 23 p3816 N84-34196

SCF
U SELF CONSISTENT FIELDS

SCHEDULES
Changes in 'Soyuz T-10' crew work schedule
19 p2971 N84-26829
Cost/schedule management for software development
[AD-P003591] 21 p3341 N84-31196
Cost and schedule control systems criteria for contract performance measurement, information pamphlet
[DE84-012576] 21 p3516 N84-32269
Calendar of selected aeronautical and space meetings
[AGARD-CAL-84/1] 21 p3527 N84-32341

SCHEDULING
NT PREDICTION ANALYSIS TECHNIQUES
Joint operating procedure for interrange scheduling
[AD-A130680] 01 p0017 N84-10111
Decentralized control of scheduling in distributed processing systems
[AD-A131548] 02 p0301 N84-11976
Space telescope cost, schedule and performance
[GPO-24-522] 02 p0305 N84-12001
Biological clocks and shift work scheduling
[GPO-21-747] 03 p0415 N84-12713
Artificial intelligence techniques for industrial applications in job shop scheduling
[AD-A132164] 04 p0586 N84-13867
Exploiting temporal knowledge to organize constraints
[AD-A133417] 06 p0899 N84-15838
ISIS: A constraint-directed reasoning approach to job shop scheduling
[AD-A133296] 06 p0933 N84-16063
Interrange scheduling and Universal Documentation System (UDS) document development and transmission
[AD-A134398] 07 p0961 N84-16230
Scheduling theory since 1961: An annotated bibliography
[MC-BW-188/83] 07 p1068 N84-16934
Preventive maintenance on space systems
[AD-A134955] 08 p1107 N84-17196
Analysis of the pilot conversion process for the Air Force T-46A jet trainer aircraft
[AD-A134404] 08 p1203 N84-17845
Myopic heuristics for the weighted tardiness problem on identical parallel machines
[AD-A134934] 08 p1216 N84-17934
The extension and application of global compaction techniques for horizontal scientific code
[AD-A135794] 09 p1368 N84-18934
Vectorization of a penalty function algorithm for well scheduling 10 p1562 N84-20233
On the facial structure of scheduling polyhedra
[AD-A136983] 10 p1591 N84-20427
Decompression mechanisms and decompression schedule calculations
[AD-A137868] 11 p1685 N84-21060
Pacific Basin Communication Study, volume 2
[NASA-CR-173174] 12 p1805 N84-21768
Definition of technology development missions for early space stations. Large space structures, phase 2, midterm review
[NASA-CR-171004] 13 p1939 N84-22607
Advanced Platform Systems Technology study. Volume 4: Technology advancement program plan
[NASA-CR-173524] 14 p2115 N84-23674
A study of elimination conditions for the permutation flow-shop sequencing problem
[CWI-OS-R8403] 17 p2754 N84-27483
New directions in scheduling theory
[CWI-OS-R8401] 17 p2761 N84-27535
Review of research under the Joint Services Electronics Program
[AD-A141458] 19 p3013 N84-29100
A problem expanding parametric programming method for solving the job shop scheduling problem
[AD-A142392] 20 p3313 N84-31036
The Program Planning Review (PPR): Milestone or millstone?
[AD-P003493] 21 p3514 N84-32259
Status tracking system for reports
22 p3672 N84-33276
ICAM (Integrated Computer Aided Manufacturing) conceptual design for computer-integrated manufacturing. Volume 4, part 5, task D: Quality assurance/quality, control/technical requirement/tasks, quality assurance modeling and analysis, architecture for product assurance, (TTD)
[AD-A144691] 24 p3948 N84-34999

SCHEMATICS
U CIRCUIT DIAGRAMS

SCHIFF BASES
U IMINES

SCHLIEREN PHOTOGRAPHY
Effects of multiple cylinders on the formation of Von Karman vortex streets
[AD-A136930] 10 p1492 N84-19758
Schlieren diagnostics at SPEED 1 — plasma focus
10 p1583 N84-20373

SCHMIDT TELESCOPES
The 70 cm Schmidt telescope of Turku University observatory 09 p1414 N84-19252
Dual aperture multispectral Schmidt objective
[NASA-CASE-GSC-12756-1] 13 p2042 N84-23248
A survey of halo RR Lyrae stars
13 p2089 N84-23409

SCHOOLS
NASA, the first 25 years: 1958 - 1983
[NASA-EP-182] 16 p2583 N84-26563

SCHOTTKY BARRIER DIODES
U SCHOTTKY DIODES

SCHOTTKY DIODES
Transactions of the Chinese Solar Energy Society (selected articles)
[AD-A131870] 03 p0403 N84-12637
Silicide formation and Schottky barrier of rare-earth metals on Si
[AD-A131750] 03 p0452 N84-12975
Silicide formation and Schottky barrier of rare-earth metals on Si
[AD-A131749] 03 p0452 N84-12976
Silicide formation and Schottky barrier of rare-earth metals on Si
[AD-A131748] 03 p0452 N84-12977
Fabrication of Schottky barrier detectors on thin films of PbSSe
[AD-A134310] 07 p1080 N84-17020
Approaching noise performance limits of Schottky-barrier mixers at millimeter waves
[REPT-S-134] 09 p1310 N84-18567
Magnetron sputtered gold contacts on n-GaAs
09 p1393 N84-19096
Effect of ion sputtering on the interface chemistry and electrical properties of Au/n-GaAs (100) Schottky contacts 09 p1393 N84-19099
Effect of ion sputtering on interface chemistry and electrical properties of an GaAs (100) Schottky contacts
09 p1393 N84-19100
Metal contacts in semiconductors
[AD-A136109] 09 p1396 N84-19120
Topics in the optimization of millimeter-wave mixers
[NASA-TP-2287] 11 p1645 N84-20758
Microwave semiconductor equipment produced in Poland
[AD-A137598] 11 p1646 N84-20762
Micro-reactions of metal contacts on various types of GaAs surfaces
[AD-A139412] 14 p2242 N84-24464
Low power radiation hard GaAs RAM
[AD-A139030] 15 p2329 N84-24966
Cryogenic 75-95 GHz front-end for the Metsaehovi radio telescope
[REPT-S-145] 15 p2424 N84-25564
Chemical bonding, interdiffusion and electronic structure at InP, GaAs, and si-metal interfaces
[AD-A141809] 19 p2968 N84-28936
Schottky barrier photoelectrodes with a variable barrier height
[AD-A141813] 19 p3111 N84-29765
Schottky barrier and homojunction gallium arsenide solar cells 22 p3615 N84-32907
Soviet integrated circuits in use in GDR
23 p3728 N84-33630
The 20 GHz solid state transmitter design, impatt diode development and reliability assessment
[NASA-CR-174716] 23 p3741 N84-33715
Epitaxial thinning process
[NASA-CASE-NPO-15786-1] 24 p3966 N84-35112

SCHOTTKY EFFECT
U WORK FUNCTIONS

SCHROEDINGER EQUATION
Evolution of nonlinear wave groups on water of slowly-varying depth
[AD-A137420] 10 p1491 N84-19751
Chemical application of diffusion quantum Monte Carlo 10 p1580 N84-20218
Family of almost periodic Schroedinger operators
[DE83-017308] 11 p1717 N84-21199
Annual report on grant AFOSR-80-0228
[AD-A140512] 16 p2550 N84-26365
Stable explicit schemes for equations of the Schroedinger type
[AD-A140779] 17 p2758 N84-27513
A stable explicit scheme for the ocean acoustic wave equation
[AD-A141800] 19 p3062 N84-29427

SCHULER TUNING
The Schuler principle: A discussion of some facts and misconceptions
[EUT-83-E-136] 10 p1427 N84-19330

SCHWARZ-CHRISTOFFEL TRANSFORMATION
A conformal mapping technique for nonsymmetric potential flows with separation 02 p0173 N84-11138

SCIENCE
National Science Foundation authorization, 1984 authorization
[GPO-21-280] 02 p0303 N84-11990
Guidelines for the design of large modular scientific libraries in Ada
[CWI-NM-N8401] 20 p3275 N84-30792
Directory of computerized data files, 1984
[PB84-160126] 21 p3520 N84-32303

SCIENTIFIC SATELLITES
NT ENVIRONMENTAL RESEARCH SATELLITES
NT EXOSAT SATELLITE
NT GRAVSAT SATELLITE
NT MAGSAT SATELLITES
NT UK SATELLITES
Viking satellite thermal control analytical verification and test 10 p1441 N84-19410
Design of a precision etalon position control system for a cryogenic spectrometer 15 p2348 N84-25093
A study of precipitation occurrence using visual and infrared satellite data
[AD-A141012] 18 p2689 N84-28338

SCIENTISTS
Uzbek scientific intelligentsia under developed Socialism 01 p0056 N84-10365
Direct comparison of intuitive, quasi-rational and analytical cognition
[AD-A130273] 01 p0116 N84-10751
Sixth all-union congress of inventors held
01 p0158 N84-11043
Applications of academic research neglected by industry 01 p0158 N84-11044
Composition of the WMO
[WMO-5] 02 p0254 N84-11660
Review of astrophysical research at Los Alamos
[DE83-017304] 04 p0620 N84-14091
Further delineation of the utilization of scientific literature by U.S. patents. Appendices A: Distribution of references contained in patents to various sources
[PB84-100742] 06 p1239 N84-18096
Functioning of mathematics in institutes for applied scientific research
[NLR-MP-82056-U] 10 p1572 N84-20300
Report of the DOD-University forum working group on engineering and science education
[AD-A138205] 13 p2049 N84-23292
Problems of prompt adoption of new technology discussed 13 p2065 N84-23396
Landmarks of progress 13 p2065 N84-23397
Designer, scientist on projected developments in aviation 18 p2784 N84-27669
Scientific and technical training in the Soviet Union
[NASA-TM-86252] 18 p2954 N84-28725
Women in the sciences
[TB-83-8] 19 p3114 N84-29784
Summer faculty fellowship program, 1984
[NASA-CR-172409] 21 p3507 N84-32221
A scientific visit to the Institute of Polar Study of Japan
[INPE-3161-NTE/221] 23 p3801 N84-34097
Socialist countries cooperate in computer R and D
24 p3961 N84-35081
Viking lander: Creating the science teams
24 p3991 N84-35255

SCINTILLATION
Parametric excitation and suppression of convective plasma instabilities in the high latitude F-region ionosphere
[AD-A130652] 01 p0105 N84-10682
The anisotropy of high latitude nighttime F-region irregularities
[AD-A131215] 01 p0106 N84-10688
Interactive modeling of scintillation pulses by visual overlay of computed pulse shapes with the raw data
[DE83-012668] 01 p0124 N84-10805
Coherence and turbulence effects on the intensity scintillations at optical frequencies
01 p0146 N84-10960
Proceedings of the STIP (Study of Travelling Interplanetary Phenomena) Symposium on Solar Radio Astronomy, Interplanetary Scintillations and Coordination with Spacecraft
[AD-A130687] 01 p0165 N84-11087
Improvement of the scintillation-irregularity model in WBMOD
[AD-A131536] 02 p0249 N84-11632
Preliminary data processing plan for the thermal plasma experiment on the HILAT satellite
[AD-A132017] 03 p0340 N84-12209
Radio scintillations at large elongation angles: Contributions of waves versus discontinuities
[IFSI-82-4] 03 p0362 N84-12358
Solar cycle evolution of the solar wind in three dimensions 03 p0469 N84-13090
Interplanetary scintillation observations of the solar wind close to the Sun and out of the ecliptic
03 p0471 N84-13102
Aperture averaging of scintillation for space-to-ground optical communication applications
[AD-A132198] 04 p0521 N84-13426
Propagation effects in satellite-borne synthetic aperture radars 06 p0867 N84-15650
Calorimetry at L = 10/sup 33
06 p0913 N84-15931
Optical scintillation statistics for infrared ground-to-space laser communication systems
[AD-A136607] 09 p1299 N84-18495
Polarization diversity combining for reduction of angular scintillation: Probability density function for a Two-Point-Scatterer target
[AD-A135859] 09 p1300 N84-18499
Equatorial scintillation of satellite signals and some drift characteristics of the scintillation
[AD-A137555] 11 p1642 N84-20738
HILAT: A pre-launch overview
[AD-A137266] 11 p1683 N84-20983
Measurements of direct path and folded path optical scintillation using a corner cube reflector
[AD-A138485] 12 p1908 N84-22429
Modelling of ionospheric irregularities and total electron content
[AD-A141236] 18 p2880 N84-28284
Evaluation of the attenuation length of a scintillator by means of a computer simulation of the light collection efficiency in long scintillation counters
[NOTA-INTERNA-820] 20 p3176 N84-30169
Radio scintillations observed during atmospheric occultations of Voyager: Internal gravity waves at Titan and magnetic field orientations at Jupiter and Saturn
21 p3525 N84-32331
Temporal and latitudinal distribution of ionosphere irregularity in Brazil, data analysis of scintillations in very high frequencies and ionograms
[INPE-3179-TDL/172] 23 p3798 N84-34081

SCINTILLATION COUNTERS
Interactive modeling of scintillation pulses by visual overlay of computed pulse shapes with the raw data
[DE83-012668] 01 p0124 N84-10805
Efficiency of wood as a passive shielding for particles and photons of 0.5 to 4.6 MeV between 940 and 377 mb
[INPE-2864-PRE/399] 02 p0288 N84-11891
The development of an imaging gas scintillation proportional counter for use in X-ray astronomy
04 p0618 N84-14079
The design and expected performance of a fast scintillator hadron calorimeter 06 p0912 N84-15926
Scintillation chamber operation of calorimeters for colliding beam detectors 06 p0912 N84-15927
High energy electromagnetic shower position measurement by a fine grained scintillation hodoscope
06 p0912 N84-15928
Scintillators and waveshifters for fast scintillator-WSB calorimetry 06 p0913 N84-15929
A measurement of the response of an SCG1-C scintillation glass shower detector to 2-17.5 GeV positrons 06 p0913 N84-15930
Measurement of the energy resolution and related properties of an SCG1-C scintillation glass shower counter array for 1 to 25 GeV positrons
[DE84-007246] 14 p2148 N84-23871
Measurements of atmospheric Kr-85 concentration at ATOMKI from 1966 to 1977 14 p2174 N84-24023
Measurement of electromagnetic shower position and size with a saturated avalanche tube hodoscope and a fine grained scintillation hodoscope
[DE84-007247] 15 p2337 N84-25032
The efficiency of wood as a passive shield for particles and photons of 0.5 to 4.6 MeV between 940 and 377 mb
[INPE-2900-TDL/146] 17 p2764 N84-27554
An investigation of lyolinescence techniques for application in radiation protection dosimetry
[PB83-263236] 19 p3053 N84-29373
Evaluation of the attenuation length of a scintillator by means of a computer simulation of the light collection efficiency in long scintillation counters
[NOTA-INTERNA-820] 20 p3176 N84-30169
Drift scintillation meter
[AD-A142523] 20 p3302 N84-30968
High energy physics research at Texas Agriculture and Mining University — magnetic monopoles in cosmic rays and hadron calorimeter design
[DE84-011616] 22 p3655 N84-33167

Scintillometer for measuring atmospheric turbulence
[FOA-C-30363-E1] 23 p3752 N84-33785
Simultaneous remote sensing of atmospheric turbulence by radar optical means: A comparison
23 p3775 N84-33932
Cosmic Rays, no. 23. Results of researches on the International geophysics projects
24 p3993 N84-35267
A crossed scintillation supertelescope to measure the muon component of cosmic ray intensity
24 p3994 N84-35274
Nonuniformity and effectiveness of light collection in a large scintillation counter of ionizing radiation
24 p3994 N84-35277

SCINTILLATORS
U SCINTILLATION COUNTERS

SCINTILLOMETERS
U SCINTILLATION COUNTERS

SCISSION
U CLEAVAGE

SCORING
Comparison of IRT observed-score and true-score equatings
[AD-A133871] 06 p0691 N84-15791
The Score technique: An analytical approach for assessing the results of manufacturing reviews
[AD-P002638] 13 p2064 N84-23363

SCORPIO CONSTELLATION
U SCORPIUS CONSTELLATION

SCORPIUS CONSTELLATION
Periodic spectral variation in Cygnus X-2 and Scorpius X-1 06 p0937 N84-16068

SCOTLAND
Northeast Scotland coastal field guide and geographical essays
[AD-A134861] 08 p1178 N84-17674

SCPC TRANSMISSION
U SINGLE CHANNEL PER CARRIER TRANSMISSION

SCR (RECTIFIERS)
U SILICON CONTROLLED RECTIFIERS

SCRAMJET ENGINES
U SUPERSONIC COMBUSTION RAMJET ENGINES

SCRAMJETS
U SUPERSONIC COMBUSTION RAMJET ENGINES

SCRAP
Manufacturing and properties of aluminum sheet from mixed scrap materials
[BMFT-FB-T-84-007] 15 p2296 N84-24776
The quick and complete recovery of the precious metals of low-grade sweeps and scrap
[BMFT-FB-T-84-003] 15 p2299 N84-24801
Detinning of tin plate scrap
[BMFT-FB-T-84-045] 16 p2466 N84-25805
Measures for materials conservation in aero-engine construction 23 p3702 N84-33468
Towards a cycle without loss: Cobalt in the aircraft industry 23 p3702 N84-33469

SCREENS
Laser screens of ZnSe produced by bridgeman method 12 p1787 N84-21658

SCREW DISLOCATIONS
On differential equations of nonlocal elasticity and solutions of screw dislocation and surface waves
[AD-A131911] 03 p0425 N84-12786
Fracture toughness processes
[DE84-007244] 13 p2002 N84-22969
Nonlocal continuum theory for dislocation and fracture
[AD-A142538] 20 p3202 N84-30340

SCREWS
The potential of the single screw compressor
11 p1640 N84-20722
Capacity control of screw compressor units
11 p1640 N84-20726
Helical screw rheometer: A new concept in rotational rheometry
[DE84-004055] 14 p2149 N84-23873
Helical rotary screw expanders to generate electricity from geothermal brines 15 p2430 N84-25596
Novel technological solutions to treatment of threads in micrometric measuring tools
17 p2641 N84-26900
Cadmium plating versus other coatings to prevent corrosion
[AD-A142504] 20 p3153 N84-30022
Helical screw viscometer
[DE84-011111] 20 p3189 N84-30261
Altering the volumetric expansion ratio of a Lysholm helical screw expander
[DE84-013695] 22 p3564 N84-32573
Empirical modeling of a Lysholm helical screw expander
[DE84-013694] 22 p3564 N84-32574

SCRIBING
U SCORING

SCRUBBERS
Design guidelines for carbon dioxide scrubbers
[AD-A130459] 01 p0117 N84-10761
Evaluation of a carbon dioxide scrubber in a 2-lock recompression chamber
[AD-A141052] 19 p2969 N84-28816

SCRUBBING
U WASHING

SCUTUM CONSTELLATION
Discriminant analysis in astronomy
09 p1411 N84-19223

SDV
U SHUTTLE DERIVED VEHICLES

SEA GRASSES
Evaluation of spatial, radiometric and spectral thematic mapper performance for coastal studies
[E84-10018] 02 p0237 N84-11555

SEA ICE
NT ICE FLOES
NT ICEBERGS
Antartic sea ice, 1973 - 1976: Satellite passive-microwave observations
[NASA-SP-459] 01 p0110 N84-10718
Assessment of potential SSM/I (Special Sensor Microwave/Imager) ice products in light ESMR (Electrically Scanning Microwave Radiometer) and SMMR (Scanning Microwave Spectrometer) ice classification algorithms
[AD-A130961] 02 p0239 N84-11570
Predictability of time averages: The influence of the boundary forcing
[NASA-TM-85092] 02 p0248 N84-11624
Report of the first Nimbus-7 SMMR Experiment Team Workshop
[NASA-TM-85093] 02 p0257 N84-11684
Contributions of remote sensing satellite tracking techniques to marine environment monitoring and marine applications 03 p0396 N84-12585
Mechanical behavior of sea ice
[AD-A131852] 03 p0401 N84-12619
Ocean mixing and circulation response in the marginal ice zone
[AD-A132174] 04 p0569 N84-13751
Geophysical data from drifting ice stations FRAM 4 and TRISTEN
[AD-A133370] 06 p0866 N84-15840
Radar and infrared remote sensing of terrain, water resources, arctic sea ice, and agriculture
06 p0868 N84-15851
Spaceborne SAR and sea ice
07 p0990 N84-16412
Radar image interpretation techniques applied to sea ice geophysical problems 07 p0990 N84-16413
A comparison of sea ice model results using three different wind forcing fields
[AD-A134462] 07 p1040 N84-16746
Reports of the U.S. - U.S.S.R. Weddell Polynya Expedition, October-November 1981. Volume 7. Surface-level meteorological data
[AD-A134476] 07 p1041 N84-16747
Data analysis and modeling of arctic sea ice subsurface roughness
[AD-A133349] 07 p1041 N84-16750
Remote sensing of sea ice --- Nimbus 7 scanning multichannel microwave radiometer (SMMR)
08 p1176 N84-17664
Reports of the U.S. - U.S.S.R. Weddell Polynya expedition, October-November 1981. Volume 6: Upper-air data
[AD-A134871] 08 p1187 N84-17736
Physical oceanography report STD data from drifting ice station Fram 1
[AD-A134244] 08 p1196 N84-17797
Statistical aspects of ice gouging on the Alaskan Shelf of the Beaufort Sea
[AD-A134428] 08 p1196 N84-17798
Investigation of ice dynamics in the marginal ice zone --- Arctic Ocean
[AD-A134599] 08 p1196 N84-17799
Analysis of sea ice in the Sea of Okhotsk using LANDSAT-MSS data (comparison with GMS data)
09 p1347 N84-18799
A numerical model of interactions between a polar ice stream, the ocean and the solid earth: Application to ice stream E, West Antarctica 11 p1689 N84-21013
Scattering models in the microwave regime
12 p1831 N84-21937
Wind, waves and swell in the Antarctic marginal ice zone by SEASAT radar altimeter 14 p2161 N84-23941
Sedimentary facies on an ice dominated shelf, Beaufort Sea, Alaska 14 p2165 N84-23967
A comparison of numerical results of Arctic Sea ice modeling with satellite images 14 p2165 N84-23969
Arctic Sea ice by passive microwave observations from the Nimbus-5 Satellite 14 p2166 N84-23970
Theoretical and experimental study of radar backscatter from sea ice
[AD-A139666] 15 p2321 N84-24935
Characteristics of snow cover on sea ice and formation of snow ice 15 p2354 N84-25126
Remote sensing of floe size distribution and surface topography
[E84-10132] 15 p2357 N84-25141
Analysis of airborne electromagnetic systems for mapping thickness of sea ice
[AD-A139786] 15 p2373 N84-25235
Marginal ice zone experiment (1983). Part 1: Ice characterization measurements. Part 2. Helicopter-borne and ship-based radar backscatter measurement of sea ice in the marginal ice zone
[AD-A139694] 15 p2373 N84-25238
Investigation of ice dynamics in the marginal zone
[AD-A138556] 15 p2374 N84-25243
Electromagnetic properties of sea ice
[AD-A140330] 16 p2534 N84-26268
Frontiers of Remote Sensing of the Oceans and Troposphere from Air and Space Platforms
[NASA-CP-2303] 17 p2711 N84-27262
Satellite remote sensing over ice
17 p2719 N84-27306
Radar altimetry over sea ice 17 p2719 N84-27309
Observations of sea ice and icebergs from satellite radar altimeters 17 p2720 N84-27311
Matrix partitioning and EOF/principal component analysis of Antarctic Sea ice brightness temperatures
[NASA-TM-83916] 17 p2721 N84-27319
Investigation of ice dynamics in the marginal ice zone
[AD-A138558] 17 p2737 N84-27367
TRISTEN/FRAM IV arctic ambient noise measurements
[AD-A140656] 17 p2763 N84-27549
Temperature response of cryosphere area in northern hemisphere 18 p2856 N84-28138
Microwave radiometric measurement of sea surface salinity
[AD-A141302] 18 p2893 N84-28359
Earth Observing System. Volume 1, part 2: Science and mission requirements. Working group report appendix
[NASA-TM-86129-VOL-1-PT-2]
20 p3217 N84-30433
Polar glaciology 20 p3218 N84-30445
Sea ice 20 p3218 N84-30446
Meteorological research and support for the MIZEX (Marginal Ice Zone Experiment) program
[AD-A142409] 20 p3245 N84-30598
Pilot study and evaluation of a SMMR-derived sea ice data base
[NASA-CR-175255] 22 p3614 N84-32896
Bering Air-Sea-Ice Study (BASICS), February and March, 1981
[PB84-196161] 22 p3615 N84-32903
Remote sensing of the marginal ice zone during Marginal Ice Zone Experiment (MIZEX) 83
23 p3772 N84-33910
SAR measurement of sea ice properties during Marginal Ice Zone Experiment (MIZEX) 83
23 p3772 N84-33911
Millimeter wave radiometric images of the marginal ice zone 23 p3772 N84-33912
Active microwave measurements of sea ice in the marginal ice under summer conditions
23 p3772 N84-33913
Eddy studies during Marginal Ice Zone Experiment (MIZEX) 83 by ship and remote sensing observations
23 p3772 N84-33914
Observation of variations in the composition of sea ice in the Greenland MIZ during early summer 1983 with the Nimbus-7 SMMR --- Marginal Ice Zone (MIZ); Scanning Multichannel Microwave radiometer (SMMR)
23 p3773 N84-33916
Passive microwave characteristics of the Bering Sea ice cover during Marginal Ice Zone Experiment (MIZEX) West 23 p3773 N84-33917
Surface based brightness temperatures of sea ice in the Bering and Greenland Seas
23 p3773 N84-33918
Seasonal ice variation in the Barents Sea obtained from the Nimbus 7 Scanning Multichannel Microwave Radiometer (SMMR) observations
23 p3773 N84-33919
The distribution of ice concentration, multiyear and first year fraction in the Arctic Ocean derived from the Nimbus 7 Scanning Multichannel Microwave Radiometer (SMMR) observations 23 p3773 N84-33920
Report of the Meeting of Experts on Sea Ice and Climate Modelling
[WCP-77] 23 p3801 N84-34101
Arctic ice island and sea ice movements and mechanical properties
[DE84-014324] 23 p3803 N84-34116

Mechanical properties of multi-year sea ice. Phase 1: Test results
[AD-A144132] 24 p3935 N84-34907
Mechanical properties of multi-year sea ice. Testing techniques
[AD-A144431] 24 p3935 N84-34908
Cloud and ice in the planetary scale circulation and in climate
[NASA-CR-173992] 24 p3990 N84-35244

SEA KING HELICOPTER
U SH-3 HELICOPTER

SEA LAUNCHING
Bank-to-Turn cruise missile terminal guidance and control law comparison
[AD-A132595] 05 p0629 N84-14136

SEA LEVEL
Atlas of mean sea-level pressure
[AD-A130207] 01 p0107 N84-10697
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F. Lemoore NAS, California
[AD-A130205] 01 p0108 N84-10699
A candidate hypothesis for the generation of quasi-biennial variations in sea level pressure
02 p0252 N84-11652
Long-term trends in dynamic height and sea surface temperature
[DE83-014868] 02 p0258 N84-11687
On the wind stress - sea level power law
[AD-A132095] 03 p0410 N84-12681
Eielson AFB, Alaska. Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F
[AD-A134198] 07 p1036 N84-16723
McGuire AFB, New Jersey. Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F
[AD-A134199] 07 p1036 N84-16724
Duluth, Duluth IAP, Minnesota. Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F
[AD-A134200] 07 p1037 N84-16725
King Salmon, Alaska. Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F
[AD-A134201] 07 p1037 N84-16726
Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F. Kitzingen, West Germany
[AD-A134202] 07 p1037 N84-16727
Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F. Adak NAS, Alaska
[AD-A134203] 07 p1037 N84-16728
Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F. Loring AFB, Maine
[AD-A134204] 07 p1037 N84-16729
The effects of wind waves on sea level at the coast
[IOS-155] 07 p1042 N84-16754
Northeast Scotland coastal field guide and geographical essays
[AD-A134861] 08 p1178 N84-17674
Sea level variations and ocean dynamics in the Aleutian Islands
[AD-A139421] 14 p2183 N84-24079
Skeletal muscle metabolism of sea-level natives following short-term high-altitude residence
[AD-A139323] 15 p2360 N84-25284
Operational and Performance Measurement on Engines in Sea Level Test Facilities
[AGARD-LS-132] 16 p2452 N84-25723
Operation and performance measurement on engines in sea-level test facilities: Introduction and general survey 16 p2452 N84-25724
Development testing: Use of sea level test beds and rigs 16 p2453 N84-25726
Instrumentation techniques in sea level test facilities 16 p2453 N84-25727
Performance derivation of turbojets and turbofans from tests in sea-level test cells 16 p2453 N84-25728
Data acquisition and processing in sea-level test beds 16 p2453 N84-25730
Effect of external pressure environment on the internal noise level due to a source inside a cylindrical tank
[NASA-TM-85814] 21 p3346 N84-31226

SEA OF JAPAN
Japan Sea central region tsunami of 26 May 1983. A reconnaissance report
[PB84-194703] 21 p3451 N84-31901

SEA ROUGHNESS
Application of remote sensing for studies, mapping and forecasting of eddies on the Norwegian continental shelf
03 p0399 N84-12605
Ocean waves and turbulence as observed with an adaptive coherent multifrequency radar
17 p2714 N84-27279
The dual-frequency scatterometer reexamined
17 p2714 N84-27280
An improved dual-frequency technique for the remote sensing of ocean currents and wave spectra
17 p2714 N84-27281

SEA STATES
A review of propagation and scattering factors in remote-sensing and ship-tracking by HF radar
06 p0868 N84-15655
Ionospheric factors affecting the performance of HF sky-wave sea-state radars 06 p0868 N84-15656
The Canadian programme of experimental measurement of sea-state characteristics by sky-wave radar
06 p0869 N84-15657
Automatic electron density profiles from digital ionograms 06 p0869 N84-15659
Multifrequency scattering for target characterization and identification: A summary of recent results
06 p0870 N84-15663
Remote sensing of atmospheric pressure and sea state from satellites using short-pulse multicolor laser altimeters 06 p0872 N84-15674
A study of the dependence of radar backscatter cross section on wind speed and wave slope from the MARSEN experimental results (a contribution to studies of radar backscattering from the sea surface). Supplement to final report
[AD-A135041] 08 p1144 N84-17441
Applications for fisheries — satellite remote sensing
08 p1176 N84-17663
Sea state monitoring and applications
06 p1176 N84-17665
Potential impact of remote sensing data on sea-state analysis and prediction
[E84-10083] 10 p1520 N84-19954
Wind, waves and swell in the Antarctic marginal ice zone by SEASAT radar altimeter 14 p2161 N84-23941
Observations of sea surface conditions during WEAP (Weapons Environmental Acoustics Program) experiment, May 1982: An example of real-time monitoring of the upper ocean environment
[AD-A140021] 15 p2374 N84-25241
Some case studies of ocean wave physical processes utilizing the GSFC airborne radar ocean wave spectrometer 17 p2715 N84-27283
Routine storm surge forecasting using numerical models: Procedures and computer programs for use on the CDC CYBER 205E at the British Meteorological Office
[IOS-167] 18 p2891 N84-28353
Tropical cyclone sea-state probability model development and application
[AD-A142212] 19 p3059 N84-29407

SEA TRUTH
Surface and atmospheric boundary layer. Observations from ships, appendix D 18 p2884 N84-28299
Satellite-Derived Sea Surface Temperature: Workshop-2
[NASA-CR-173740] 18 p2892 N84-28355

SEA WALLS
U BREAKWATERS

SEA WATER
Center for the transfer of desalination technology
[PB83-223057] 01 p0039 N84-10246
Studies of the voltammetric determination of trace metals in seawater
[AD-A131164] 02 p0190 N84-11233
Novel composite membranes
[PB83-243170] 03 p0351 N84-12284
Operational utilization of remote sensing in a study of the impact of disposal of urban waste at sea
03 p0400 N84-12611
XWVG: A waveguide program for trilinear tropospheric ducts. Computer program for calculating the signal levels of EM (Electromagnetic) waves propagating over seawater
[AD-A133667] 05 p0669 N84-14399
In situ characterization of seawater using a computerized suite of optical instruments 06 p0872 N84-15675
Some parameters characterising the icing of ships from spray
[BLL-MO-TRANS-1570-(9022.552)] 06 p1190 N84-17753
NODC (National Oceanographic Data Center) inventory of XBT data along transects in U.S. Atlantic and Gulf coastal waters from NMFS/MARD ship of opportunity program for 1981
[PB84-122662] 08 p1197 N84-17802
An experimental study of cylindrical antennas radiating in or near a lossy half space
[AD-A136206] 12 p1807 N84-21779
Experimental study of the fluxes of reduced sulfur gasses from a salt water marsh
[PB84-159316] 14 p2181 N84-24064
Effects of stress on permeation and polyurethane degradation
[AD-A140260] 16 p2472 N84-25841
Stress corrosion resistance of structural steels in high chloride environments
[EUR-7435] 17 p2622 N84-26781
Corrosion fatigue of high strength fastener materials in seawater
[NASA-CR-174677] 17 p2723 N84-27328
Computerized hydrologic research complex 'Gidrozond' 18 p2856 N84-28139
Seawater hydraulics: Development and evaluation of an experimental diver tool system
[AD-A142032] 19 p3032 N84-29231
Reference plant for high temperature electrodialysis desalting of seawater
[PB84-195841] 22 p3549 N84-32471
Stress corrosion cracking of stainless steels in sea water at ambient temperature
[BLL-RISLEY-TRANS-4556-(9091.9)] 22 p3550 N84-32476
Stress corrosion cracking of austenitic stainless steels in sea water: An investigation of test methods
[BLL-RISLEY-TRANS-4568-(9091.9)] 22 p3551 N84-32478
Hydrographic measurements in the western Arboran Sea, October 1982
[AD-A143588] 22 p3627 N84-32985

SEALANTS
U SEALERS

SEALERS
Applications for anaerobic adhesives, with particular reference to the replacement of conventional locking devices 09 p1291 N84-18433
Interactions between F-111 fuselage fuel tank sealants. Part 1: Characterisation of polyester sealants and their hydrolytic degradation products
[MRL-R-657-PT-1] 16 p2470 N84-25826

SEALING
NT SELF SEALING
Edge-sealed PLZT shutters for operation in high-humidity/temperature environments
[DE83-012627] 01 p0148 N84-10971
Design, performance and operation of the laser interferometric dilatometer
[DE83-014359] 02 p0226 N84-11483
Development of a modular battery
[BMFT-FB-W-83-021] 08 p1153 N84-17504
Attempt to study by ocular inspection the influence of rubber quality on the sealing effects of O-rings
[FOA-C-20526-E4] 16 p2496 N84-26030

SEALS (STOPPERS)
NT GASKETS
NT HERMETIC SEALS
NT O RING SEALS
NT PACKINGS (SEALS)
NT PLUGS
NT PUMP SEALS
Heat checking in the contact zone of a face seal: A three-dimensional model of a single moving asperity
[AD-A130758] 01 p0079 N84-10513
Helium/solid powder o-ring leakage correlation experiments
[DE83-013773] 01 p0090 N84-10588
The SSME seal test program: Leakage tests for helically-grooved seals
[NASA-CR-170921] 03 p0383 N84-12495
Wear during rubbing of a sintered metal powder body
[AD-A132354] 04 p0544 N84-13584
A dynamic analysis of rotary combustion engine seals
[NASA-TM-83536] 05 p0668 N84-14519
An evaluation of Techroll seal flexible joint material
06 p0929 N84-16037
Dynamic behavior of spiral-groove and Rayleigh-Step self-acting face seals
[NASA-TP-2268] 07 p0953 N84-16181
Rotordynamic forces developed by labyrinth seals
[AD-A136217] 09 p1316 N84-18599
Free-piston Stirling engine experimental program: Part 2. An evaluation of loss mechanisms
[DE84-003658] 09 p1325 N84-18661
SSME interstage seal research
[NASA-CR-170995] 11 p1624 N84-20631
The Shock and Vibration Digest, volume 16, no. 2
[AD-A139098] 12 p1821 N84-21674
Turbulent flow annular pump seals: A literature review 12 p1822 N84-21675
Mechanical face seal technology: A literature survey
[AD-A138434] 12 p1822 N84-21681
Process for preparing perfluorotriazine elastomers and precursors thereof
[NASA-CASE-ARC-11402-1] 13 p1961 N84-22744
Method of fabricating an abradable gas path seal
[NASA-CASE-LEW-13269-2] 13 p1997 N84-22957
Factors influencing thermomechanical failure of face seals, 3
[AD-A138546] 13 p1997 N84-22961
Status of understanding for seal materials
15 p2343 N84-25082

Safety recommendation(s) A-84-10 and -11
16 p2444 N84-25676
Quality control analysis of TA-23 glass seals for lithium ambient temperature batteries
[DE84-011719] 20 p3164 N84-30094
Dual rotating shaft seal apparatus
[DE84-011101] 20 p3197 N84-30307
Computational fluid mechanics utilizing the variational principle of modeling damping seals
[NASA-CR-171114] 21 p3398 N84-31553
Pin rooted blade biaxial air seal
[AD-D011086] 22 p3537 N84-32391
Linear motion valve
[NASA-CASE-MSC-20148-1] 22 p3603 N84-32823
Development of partially fluorinated resin apex seals
[NASA-CR-174706] 22 p3603 N84-32828
Materials testing of the IUS techroll seal material
[NASA-TM-86462] 22 p3604 N84-32829
Mechanical seal program
[DE84-012421] 22 p3605 N84-32838
Navy mobility fuels evaluation
[AD-A144171] 24 p3890 N84-34830
A comparison of experimental and theoretical results for leakage, pressure distribution, and rotordynamic coefficients for annular gas seals
[NASA-CR-174000] 24 p3910 N84-34765

SEAMOUNTS
Seamount paleomagnetism and Pacific plate tectonics
11 p1677 N84-20943
SeaMARC 2 side-scan images of submarine volcanoes: Potential analogues for Venus 11 p1754 N84-21452
Generation of mesoscale hydrodynamic phenomena by the Grappler and Whiting Seamounts, southeast of Puerto Rico
[PB84-148196] 12 p1863 N84-22140

SEAMS (JOINTS)
Comparison of seam types
[AD-A137383] 10 p1466 N84-19574
Damage to welding seams — cracks
14 p2126 N84-23748
An algorithm for seam tracking applications
[AD-A141705] 19 p3031 N84-29227
Narrow-seam laser welding of components of low thickness 23 p3709 N84-33514
Certain metallurgical properties of laser welding
23 p3710 N84-33517
Control of seam formation in welding with a light beam
24 p3869 N84-34523
Effect of protective gas composition on seam formation during laser welding 24 p3870 N84-34524

SEAPLANES
World and United States aviation and space records, as of June 1, 1983 01 p0001 N84-10009

SEARCH AND RESCUE SATELLITE
U SARSAT

SEARCH FOR EXTRATERRESTRIAL INTELLIGENCE
U PROJECT SETI

SEARCH PROFILES
Environments and search paths for the software tools
[DE83-016607] 03 p0420 N84-12749
Development of a unique Physical Metrology Laboratory Recall System
[DE83-017415] 03 p0423 N84-12767
A study of critical factors affecting the development of performance measures in evaluating bibliographic information retrieval systems 03 p0480 N84-13030
FORTRAN 5 cross-reference
[DE84-006438] 11 p1709 N84-21143
Search command for character strings and words in computer files on CMS (Conversational Monitor System)
[PB84-201243] 22 p3639 N84-33068

SEARCH RADAR
NT OVER-THE-HORIZON RADAR
A computer program for the prediction of search radar performance
[AD-A131080] 01 p0067 N84-10436
Considerations for choosing microwave transistors in high power shipboard search radars
[AD-A133279] 06 p0823 N84-15367
Evaluation of U.S. Coast Guard forward-looking airborne radars
[AD-A142417] 20 p3174 N84-30156

SEARCHING
NT SEARCH PROFILES
Some probability models related to classical occupancy with possible applications to tactical analysis
[AD-A131056] 01 p0137 N84-10698
A review of underwater acoustic systems and methods for locating objects lost at sea
[NASA-TM-85727] 06 p0908 N84-15898
A search for Earth-crossing asteroids, supplement
[NASA-CR-173255] 07 p1092 N84-17101
Search algorithms and their implementation
[AD-A135154] 08 p1219 N84-17953
Search with limited resources
[AD-A136122] 09 p1384 N84-19039
Device for marking and searching for information on a magnetic carrier
[AD-A139393] 14 p2148 N84-23867
Note on the optimum search strategy for uniformly distributed CW transmitters — implications for Project Seti 16 p2480 N84-25904
Automated search for control images on photographs of Earth's surface using spectral analysis
19 p2976 N84-28874
Evaluation of U.S. Coast Guard forward-looking airborne radars
[AD-A142417] 20 p3174 N84-30156
Verification of asynchronous transmissions
[PB84-189685] 20 p3268 N84-30738
New algorithms for near neighbor searching
[AD-A142404] 20 p3280 N84-30824
The user's mental model of an information retrieval system: Effects on performance
21 p3516 N84-32275
Sequential decision models in reliability
[AD-A144181] 24 p3911 N84-34770

SEAS
NT ADRIATIC SEA
NT BALTIC SEA
NT BARENTS SEA
NT BEAUFORT SEA (NORTH AMERICA)
NT BERING SEA
NT CARIBBEAN SEA
NT CHUCKCHI SEA
NT MEDITERRANEAN SEA
NT NORTH SEA
NT RED SEA
NT SALTON SEA (CA)
NT SEA OF JAPAN
Climate-chemistry connection
[DE84-001950] 06 p0882 N84-15739
Carbon cycle research plan
[DE84-008221] 12 p1861 N84-22124
Aerosol characteristics on the Alboran sea, 9-18 october 1982
[AD-A139692] 15 p2371 N84-25227
The depiction of Alboran Sea Gyre during Donde Va? using remote sensing and conventional data
17 p2719 N84-27306
Analyzing temperature data from XBT grid surveys
[AD-A140685] 17 p2737 N84-27368

SEASAT PROGRAM
Subsynoptic variations in SEASAT winds
[PB84-131697] 09 p1350 N84-18823
Analysis of SEASAT wind observations in the Gulf of Mexico and the Caribbean Sea
[PB84-131309] 09 p1350 N84-18824

SEASAT SATELLITES
NT SEASAT 1
Geologic application of spaceborne radars
07 p0987 N84-16391
Use of coregistered radar, visible and IR images for geologic remote sensing 07 p0987 N84-16393
Stereo imaging with spaceborne radars
07 p0988 N84-16400
Enhancement of SEASAT wind-stress measurements using data from GOES
[PB84-111244] 08 p1192 N84-17773
Interpretation of a SAR (Synthetic Aperture Radar) image of the Bay of Biscay
[AD-A135981] 09 p1303 N84-18517
Non-gravitational force modelling and altimeter measurement modelling for SEASAT-A satellite
11 p1621 N84-20609
Measurement of ocean surface winds by SEASAT synthetic aperture radar
[AD-A138392] 12 p1835 N84-21971
A SEASAT SASS simulation experiment to quantify the errors related to a + or - 3 hour intermittent assimilation technique
[E84-10129] 14 p2168 N84-23987
Relating geoid anomalies, gravity anomalies and ocean topography
[AD-A140112] 15 p2354 N84-25127
SPECTRASAT: A concept for the collection of global directional wave spectra 17 p2712 N84-27265
Scatterometer capabilities in remotely sensing geophysical parameters over the ocean: The status and the possibilities 17 p2712 N84-27268
A new parameterization of an empirical model for wind/ocean scatterometry 17 p2712 N84-27269
Does the scatterometer see wind speed or friction velocity? 17 p2713 N84-27270
SEASAT observations of lithospheric flexure
20 p3221 N84-30483
The information content of spaceborne SAR ocean image spectra 23 p3771 N84-33905
Comparison of ocean wave energy measured by SEASAT synthetic aperture radar with SAR surface wave imaging theories 23 p3771 N84-33906
On the hydrodynamic corrections of SEASAT-ALT data and geodynamic application 23 p3777 N84-33945

SEASAT 1
Solid state transmitters for spaceborne radars
07 p0986 N84-16398
Propagation effects in satellite-based synthetic aperture radars
[AD-A136681] 13 p1983 N84-22873
Comparison of sea surface wind speed fields by SEASAT radar altimeter, scatterometer and scanning multichannel microwave radiometer with an emphasis on the Southern Ocean 23 p3774 N84-33922
SASS 1 model function evaluation and upgrade — Seasat A Satellite Scatterometer (SASS)
23 p3778 N84-33956

SEASONAL VARIATIONS
U ANNUAL VARIATIONS

SEASONS
NT SUMMER
NT WINTER
Plasma bubble irregularity occurrence and zonal velocities under quiet and disturbed conditions, from polarimeter observations
[INPE-3023-PRE/461] 12 p1846 N84-22036
Solar cycle related range type spread F occurrence characteristics over equatorial and low latitude stations in Brazil
[INPE-3024-PRE/462] 12 p1846 N84-22037
The simulation of transient statistics of the Southern Hemispheric circulation by the GLAS seasonal cycle model: Preliminary results 12 p1855 N84-22082
On the role of the transient eddies in maintaining the seasonal mean circulation 12 p1855 N84-22086
Design for and efficient dynamic climate model with realistic geography 12 p1856 N84-22092
Role of soil moisture in maintaining droughts
12 p1859 N84-22110
A simplified upper atmosphere model to explain seasonal phenomena
[INPE-3071-PRE/488] 16 p2521 N84-26181
Seasonal thermal energy storage
[DE84-013854] 23 p3791 N84-34042

SEAT BELTS
Effects of a negative G strap on restraint dynamics and human impact response
[AD-A138642] 13 p2024 N84-23121

SEATS
NT EJECTION SEATS
NT FLYING EJECTION SEATS
Optimization of aircraft seat cushion fire blocking layers
[NASA-TM-85430] 01 p0006 N84-10037
Impact and vibration testing of a modified UH-1 crew seat
[AD-A130279] 01 p0117 N84-10760
Correlation of laboratory-scale fire test methods for seat blocking layer materials with large-scale test results
[AD-A131666] 03 p0328 N84-12138
A restraint chair with rowing-like movement for exposing exercising nonhuman primates to microwave irradiation
[AD-A132047] 03 p0413 N84-12705
Mathematical simulation of the cardiopulmonary system
[AD-A135460] 08 p1200 N84-17822
Effects of motion base and g-seat cueing of simulator pilot performance
[NASA-TP-2247] 09 p1255 N84-18189
An optimum seat-suspension for off-road vehicles
10 p1512 N84-19896
Survey of NASA research on crash dynamics
[NASA-TP-2298] 12 p1826 N84-21901
Motion simulation with a G-seat system: Sensory and performance mechanisms
[AD-P003267] 18 p2907 N84-28432
Decision analysis model for passenger-aircraft fire safety with application to fire-blocking of seats
[AD-A142477] 20 p3127 N84-29859
Design and development of an automatically controlled variable-load energy absorber
[AD-A142683] 20 p3128 N84-29868
Simulated crash decelerations in a light aircraft cabin
[AD-A142806] 21 p3326 N84-31102
Uniform mass distribution properties and body size appropriate for the 50 percentile male aircrewmember, 1980 - 1990
[AD-A142946] 21 p3461 N84-31948
Fire blocking systems for aircraft seat cushions
[NASA-CASE-ARC-11423-1] 23 p3691 N84-33394

SECONDARY BATTERIES
U STORAGE BATTERIES

SECONDARY EMISSION
Computation of counting distributions arising from a single-stage multiplicative process
[AD-A131480] 01 p0072 N84-10471
Impact ionization effects on Pioneer Venus Orbiter
08 p1118 N84-17270

Energy distributions and yields of secondary ions and electrons emitted by GIOTTO during Halley encounter
08 p1118 N84-17272
Beam impingement angle effects on secondary electron emission characteristics of textured pyrolytic graphite
[NASA-TP-2285] 09 p1286 N84-18400
Secondary electron emission characteristics of ion-textured copper and high-purity isotropic graphite surfaces
[NASA-TP-2342] 19 p2997 N84-28989
Algorithm for secondary electron emission from water vapor by high velocity ions
[DE84-011871] 21 p3494 N84-32142

SECONDARY FLOW
Secondary flows and losses in a turbine cascade
07 p0956 N84-16203
Comparison of secondary flows predicted by a viscous code and an inviscid code with experimental data for a turning duct
[NASA-TM-83575] 08 p1098 N84-17142
Secondary flow sparwise deviation model for the stators of NASA middle compressor stages
[NASA-CR-173980] 09 p1256 N84-18202
Secondary flows and endwall boundary layers in axial turbomachines — conferences
[VKI-LS-1984-05] 19 p3022 N84-29162
Secondary flow theory in straight and annular cascades 19 p3022 N84-29163
Secondary loss prediction methods — turbines
19 p3022 N84-29164
Experimental research on secondary flows in annular turbine cascades at the Von Karman Institute
19 p3022 N84-29165
Three-dimensional rotational inviscid flow calculation — turbomachines 19 p3022 N84-29166
Secondary instability of shear flows
23 p3748 N84-33763

SECONDARY WAVES
U S WAVES

SECRETIONS
NT ADRENOCORTICOTROPIN (ACTH)
NT ENDOCRINE SECRETIONS
NT ESTROGENS
NT HORMONES
NT INSULIN
NT PROSTAGLANDINS
Presynaptic elements involved in the maintenance of the neuromuscular junction 09 p1358 N84-18875
A study on the gastrointestinal hormones and the gastric acid secretion during physical stress in man
[NDRE/PUBL-83/1001] 10 p1546 N84-20136
Gypsy moths and American dog ticks: Space partners
18 p2800 N84-27768

SECULAR PERTURBATION
U LONG TERM EFFECTS

SECULAR VARIATIONS
Geomagnetic and related geophysical phenomena
[CSIR-SR-MAG-3] 07 p1032 N84-16693
Drag on geodynamic satellites
19 p3118 N84-29818

SECURITY
NT AIRPORT SECURITY
NT COMPUTER INFORMATION SECURITY
Smarter radiation monitors for safeguards and security
[DE83-015259] 02 p0224 N84-11468
Classified document handbook
[AD-A137002] 10 p1593 N84-20439
Classification management. Journal of the National Classification Management Society, volume 18, 1982
[AD-A138480] 12 p1919 N84-22502
Technology transfer dichotomies
[AD-A140367] 16 p2567 N84-26472
Notes on a theory of terrorism
[AD-P003242] 18 p2903 N84-28409
Department of defense trusted computer system evaluation criteria
[AD-A141304] 18 p2917 N84-28498
Cosmic bombardment
[DE84-011402] 20 p3319 N84-31071

SEDATIVES
Benzodiazepine effects on arousal threshold during sleep
[AD-A133151] 07 p1047 N84-16792

SEDIMENT TRANSPORT
Sizewell-Dunwich Banks field study, topic report 7: A study of nearshore sediment transport process
[IOS-146] 02 p0258 N84-11690
Sediment transport in a tidal inlet
[PB83-242271] 03 p0402 N84-12832
Nearshore current model workshop summary
[AD-A134702] 06 p1195 N84-17791
Long range transport of fine grained sediments on Mars: Atmospheric dust loading, as inferred from Viking Lander imaging data 13 p2082 N84-23488
A possible source for the Martian circumpolar dune material 13 p2082 N84-23490
Velocities of windblown particles in saltation: Venus, Earth, and Mars 13 p2082 N84-23491
Coastal bathymetry and currents from LANDSAT data
17 p2718 N84-27303
Interpretative analysis of surficial sediments as an aid in transport studies of dredged materials Cape Canaveral, Florida
[AD-A140759] 17 p2724 N84-27339
Canyon and slope processes study. Volume 2: Physical processes
[PB84-169499] 17 p2738 N84-27392
Environmental geologic studies on the United States mid- and north Atlantic outer continental shelf area, 1980-1982. Volume 2: Mid-Atlantic region
[PB84-187947] 20 p3252 N84-30640
Environmental and water quality operational studies. Fluorometric techniques for tracing reservoir inflows
[AD-A143135] 21 p3436 N84-31801
Aggradation and degradation at alluvial-channel beds
[PB84-201557] 22 p3615 N84-32905
A splash and sheet erosion model from LANDSAT data 23 p3771 N84-33903
Remote monitoring of sediments and chlorophyll as traces of pollutant movements in a Mediterranean coastal area 23 p3780 N84-33969

SEDIMENTARY ROCKS
NT CARBONACEOUS ROCKS
NT COAL
NT LIMESTONE
NT PEAT
NT SANDSTONES
NT SHALES
Average sedimentary rock rare Earth element patterns and crustal evolution: Some observations and implications from the 3800 Ma ISUA supracrustal belt, West Greenland 11 p1678 N84-20953
Sedimentary response to eocene tectonic rotation in western Oregon 13 p2013 N84-23063
Geochemistry and origin of regional dolomites
[DE84-006257] 15 p2369 N84-25214
Methodological approach in lithological discrimination by digital processing: A case study in the Serra do Ramalho, state of Bahia
[INPE-3108-PRE/507] 16 p2509 N84-26101
Fossil fuels 19 p3037 N84-29257
Geology, petrology and tectonic significance of the Mesozoic Paleoceanic terranes of the Vizcaino Peninsula, Baja California Sur, Mexico 21 p3438 N84-31810
Stratigraphy and sedimentology of the upper Proterozoic Kingston Peak Formation, Panamint Range, eastern California 22 p3620 N84-32939
Lower tertiary biostratigraphy and paleoecology of the Quilcene-Discovery Bay area, northeast Olympic Peninsula, Washington 22 p3621 N84-32943
Broken-formations of the Pulaski thrust sheet near Pulaski, Virginia 23 p3794 N84-34061

SEDIMENTS
NT MUD
NT SANDS
NT TAR SANDS
Optical means of measuring particle-sea interactions in the Caribbean Sea and Gulf of Mexico
[AD-A131290] 02 p0257 N84-11685
Geotechnical properties of deep sea sediments: A critical review of measurement techniques
[IOS-134] 02 p0258 N84-11689
The effect of noisy reflection data on an inverse method for determining the structure of a layered ocean bottom
[AD-A131976] 03 p0430 N84-12820
Phase and compression behavior in sedimentation and thickening of liquid-solid suspensions
[PB83-249664] 04 p0496 N84-13257
Assessment of quality of data on tapes from the hydrogeochemical and stream sediment reconnaissance
[DE83-017697] 04 p0554 N84-13647
Dynamic mass balance of PCB (polychlorinated biphenyls) and suspended solids in Saginaw Bay: A case study
[PB83-250308] 04 p0561 N84-13699
Sediment radioactivity in the stretch of the Po river from Monte Trino to Valle Caorso: Some results for the period 1978-82
[CISE-2071] 05 p0701 N84-14600
Etching of moldavites under natural conditions
[NASA-TM-77334] 05 p0764 N84-15014
Uranium anomalies in Wyoming and parts of adjacent states. National Uranium Resource Evaluation
[DE83-005353] 06 p0866 N84-15638
Marine environmental acoustics
[AD-A133245] 06 p0909 N84-15902
Determination of particle-size distribution by measuring the transmission of an aerosol in sedimentation
[AD-A133268] 06 p0918 N84-15962
Acoustic data and uncertainty in geotechnical site characterization offshore
[PB84-100908] 06 p1196 N84-17801
Mechanical details of a modified Hamilton Frame velocimeter
[AD-A136180] 09 p1316 N84-18613
Water resources data for New Jersey, water year 1982. Volume 2: Delaware River Basin and tributaries to Delaware Bay
[PB84-119734] 09 p1338 N84-18737
Water resources data for Illinois, water year 1982. Volume 1: Illinois except Illinois River Basin
[PB84-120112] 09 p1338 N84-18738
Water resources data for Idaho, water year 1982. Volume 1: Great Basin and Snake River Basin above King Hill
[PB84-118470] 09 p1338 N84-18740
Great lakes monthly hydrologic data
[PB84-114545] 09 p1339 N84-18745
Water resources data for Virginia, water year 1982
[PB84-118553] 09 p1340 N84-18751
Water resources data for Montana, water year 1982. Volume 2: Columbia River Basin
[PB84-118561] 09 p1340 N84-18752
Water resources data for Alaska, water year 1982
[PB84-119569] 09 p1340 N84-18753
Water resources data for Utah, water year 1982
[PB84-120484] 09 p1340 N84-18756
Amyloplast movement in living statocytes
09 p1351 N84-18830
Water resources data: Iowa water year, 1982
[PB84-137215] 10 p1528 N84-20009
Piezometer probe technology for geotechnical investigations in coastal and deep-ocean environments
[AD-P002689] 11 p1659 N84-20824
Computer simulation of phosphorus cycling in the sediment-water system of eutrophic lakes
[PB84-140573] 11 p1672 N84-20912
Average sedimentary rock rare Earth element patterns and crustal evolution: Some observations and implications from the 3800 Ma ISUA supracrustal belt, West Greenland 11 p1678 N84-20953
Clastic sedimentary rocks of the Michipicoten Volcanic-sedimentary belt, Wawa, Ontario
11 p1679 N84-20960
A multi-element study of ISUA iron-formation, W-Greenland 11 p1680 N84-20961
Granitic rocks and metasediments in Archean crust, Rainy Lake area, Ontario: ND isotope evidence for mantle-like SM/ND sources 11 p1680 N84-20964
The Archean crust in the Wawa-Chapleau-Timmins region. A field guidebook prepared for the 1983 Archean Geochemistry-Early Crustal Genesis Field Conference
11 p1681 N84-20969
Acoustic exploration of ocean floor properties based on the ringing of sediment layer resonances
[AD-A138245] 12 p1899 N84-22367
Valles Marineris layered deposits: Implications of origin 13 p2090 N84-23537
Climatic significance of lacustrine deposits around Lake Vanda and Don Juan Pond, Antarctica
14 p2163 N84-23953
Sedimentary facies on an ice dominated shelf, Beaufort Sea, Alaska 14 p2165 N84-23967
Quaternary sedimentation on the Alaskan Beaufort shelf: Sediment sources, glacioeustatism and regional tectonics 14 p2165 N84-23968
Water resources data for South Carolina, water year 1982
[PB84-162577] 14 p2170 N84-24003
Alternative fuel deposit formation
15 p2289 N84-24735
Microanalytical study of some cosmic dust discovered in sea-floor sediments in China
[NASA-TM-77409] 16 p2504 N84-26068
Georges Bank monitoring program: Analysis of trace metals in bottom sediments during the second year of monitoring
[PB84-169465] 16 p2534 N84-26269
Evaluation of Stokes settling equation for variable density aggregates
[AD-A140878] 17 p2721 N84-27322
Interpretative analysis of surficial sediments as an aid in transport studies of dredged materials Cape Canaveral, Florida
[AD-A140759] 17 p2724 N84-27339
Canyon and slope processes study. Volume 1: Executive summary
[PB84-169481] 17 p2738 N84-27391
Canyon and slope processes study. Volume 2: Physical processes
[PB84-169499] 17 p2738 N84-27392
Acoustic attenuation in ocean sediments found in shallow water regions
[AD-A140889] 17 p2763 N84-27550
Genetic types of geological bodies of sedimentary mantle (based on seismic profiling data)
18 p2861 N84-28165

Preliminary studies of the total cation exchange capacity of sediments from two North Atlantic study sites
[IOS-158] 19 p3062 N84-29430
Sedimentation studies relevant to low-level radioactive effluent dispersal in the Irish Sea. Part 3: An evaluation of possible mechanisms for the incorporation of radionuclides into marine sediments
[IOS-178] 19 p3062 N84-29431
A first evaluation of LANDSAT TM data to monitor suspended sediments in lakes 20 p3215 N84-30425
Environmental geologic studies on the United States mid- and north Atlantic outer continental shelf area, 1980-1982. Volume 2: Mid-Atlantic region
[PB84-187947] 20 p3252 N84-30640
Geographic distribution of wetland parameters: The foundation of a data base 20 p3256 N84-30667
Holocene sediments and evolution of the Indian River (Atlantic coast of Florida) 21 p3426 N84-31730
Convergence tectonics of the Peru Trench: 8 deg S - 15 deg S latitude 21 p3440 N84-31824
Depositional environment and petrology of the Medicine Peak Quartzite (early proterozoic), southern Wyoming 21 p3441 N84-31829
Recent eolian activity and paleoclimate fluctuations in the Ferris Lost Soldier Area, South-Central Wyoming 21 p3441 N84-31830
Volcanism, plutonism, and sedimentation in a late Devonian Submarine Island-arc setting, Northern Sierra Nevada, California 21 p3441 N84-31831
Paleomagnetism, rock magnetism and diagenesis in hemipelagic sediments from the northeast Pacific Ocean and the Gulf of California 22 p3621 N84-32944
Tertiary foraminifera and age of sediments, Ok Tedi-Wabag, Papua New Guinea
[BMR-BULL-216] 23 p3797 N84-34078

SEEDING (INOCULATION)
U INOCULATION

SEEDS
Seeds in space experiment (P0004-1) 15 p2277 N84-24675
Space-exposed experiment developed for students 15 p2277 N84-24676
Results of the Purdue University GAS-1 payload 18 p2799 N84-27760

SEEKERS
U HOMING DEVICES

SEEPAGE
An active remote sensing system to map location of underwater oil seeps 23 p3781 N84-33974

SEGMENTS
Noise reduction and segmentation of IR images using CO-median filters
[RSRE-MEMO-3582] 03 p0366 N84-12378
The FASTBUS segment driver microcode description
[DE83-017972] 04 p0523 N84-13437
Application of the Gibbs distribution to image segmentation
[AD-A133406] 06 p0901 N84-15850
The Solid Model Geometry Generator (SMGG) 12 p1872 N84-22199
Thermal degradation studies of segmented thermoplastic elastomers
[AD-A143954] 23 p3724 N84-33600

SEGREGATION
U SEPARATION

SEISMIC ENERGY
Probabilistic assessment of weld quality in steel piping under seismic conditions
[DE83-012053] 01 p0091 N84-10591
Computer programs for seismic analysis of piping systems with special reference to the power piping code B31.1 — pressure vessels
[CRIF-MT-158] 07 p1017 N84-16601
Spherical wave refraction with short distances of source from interface 17 p2702 N84-27212
Seismicity of the Paradox Basin and the Colorado Plateau interior
[DE84-011620] 20 p3228 N84-30516
Natural phenomena hazards modeling project: Extreme wind-tornado hazard models for Department of Energy sites
[DE84-011157] 20 p3247 N84-30608

SEISMIC WAVES
NT LOVE WAVES
NT RAYLEIGH WAVES
Probabilistic assessment of weld quality in steel piping under seismic conditions
[DE83-012053] 01 p0091 N84-10591
Numerical modeling techniques according to the wave equation and the ray method — in seismology
[BMFT-FB-T-83-136] 03 p0362 N84-12354
Description of an automatic seismic measurements package: Analysis and design goals
[AD-A132067] 03 p0407 N84-12666
Velocity profiles of interplanetary shocks 03 p0474 N84-13122
Lateral-torsional response of structures subjected to seismic waves
[PB83-239582] 04 p0516 N84-13390
Microseismic monitoring for evidence of geothermal heat in the capital district of New York
[PB83-248807] 04 p0556 N84-13659
An analysis of acoustic and seismic wave resonances 04 p0561 N84-13701
Nevada test site seismic-telemetry measurements
[DE84-000447] 04 p0564 N84-13719
Inverse torsional Eigenvalue problems — reconstruct the S-wave velocity of the Earth
[DE84-002568] 05 p0704 N84-14621
Combined use of remote sensing and seismic observations to infer geologically recent crustal deformation, active faulting, and stress fields — California and Pennsylvania
[E84-10057] 06 p0864 N84-15628
Seismic properties of the crust and uppermost mantle of North America
[NASA-CR-175134] 06 p0877 N84-15708
The Norwegian Seismic Array (NORSAR). Phase 3
[AD-A134038] 06 p0878 N84-15713
Surface wave path corrections, deterministic discrimination and body wave attenuation
[AD-A133574] 06 p0878 N84-15714
State-of-the-Art for assessing earthquake hazards in the United States. Report 20: The contribution of directivity focusing to earthquake intensities
[AD-A132693] 06 p0878 N84-15716
Frequency characteristics of spring constants of a suspended transmission line 07 p0982 N84-16361
Combination of earthquake direction effects
[DE84-001648] 07 p1034 N84-16709
Teleseismic array analysis of upper mantle compressional velocity structure
[NASA-CR-173285] 08 p1185 N84-17723
Development of ultrasonic modeling techniques for the study of crustal inhomogeneities
[AD-A134501] 08 p1187 N84-17738
Strong motion effects due to seismic waves in dipping layers
[PB84-127919] 08 p1189 N84-17747
Wave propagation study of the central Mediterranean Sea using ocean bottom seismometers
[AD-A135484] 08 p1195 N84-17790
Mechanical details of a modified Hamilton Frame velocimeter
[AD-A136180] 09 p1318 N84-18613
A renormalization group model for the stick-slip behavior of faults
[NASA-CR-173362] 09 p1344 N84-18782
Study of seismic response at Stations 6 and 7, El Centro Strong Motion Array, Imperial Valley, California
[PB84-119924] 09 p1346 N84-18795
Shock and seismic response spectra in design problems 10 p1506 N84-19856
Seismological measurements on ocean floor 11 p1670 N84-20896
Spectral analyses of high-frequency Pn, Sn phases from very shallow focus earthquakes
[AD-A137778] 11 p1681 N84-20973
Extended-range pendulous velocity gage
[DE83-012749] 12 p1819 N84-21856
Deconvolution based on source scaling applied to teleseismic signals — nuclear explosion monitoring
[FOA-C-20514-T1] 12 p1848 N84-22046
Acoustic-to-Seismic coupling over porous ground surfaces
[AD-A138753] 13 p2011 N84-23046
Chronology, morphology and stratigraphy of pumiceous pyroclastic-flow (ignimbrite) deposits from the eruption of Mount St. Helens on 18 May 1983 13 p2060 N84-23476
Seismo-acoustic effects of sonic booms on archeological sites, Valentine Military Operations Area
[AD-A139581] 14 p2146 N84-23862
Determination of strong ground motion in complex structures using dynamic raytracing
[AD-A138559] 14 p2178 N84-24036
FINDIF: A software package to create synthetic seismograms by finite differences
[AD-A138904] 14 p2183 N84-24081
A crustal structure study of South America 15 p2357 N84-25139
Tube waves recorded in a seismic crosshole experiment
[FOA-C-20521-E1] 15 p2368 N84-25206
Microexplosions in boreholes
[FOA-C-20523-E1] 15 p2406 N84-25445
Descriptive statistical model of earthquake focal radiation and its application in evaluating short-period strong movement 17 p2700 N84-27200
Spherical wave refraction with short distances of source from interface 17 p2702 N84-27212
Determining parameters of radiating focus from amplitude spectra of body waves 17 p2704 N84-27222
Possibilities of studying inelastic properties and characteristics of medium inhomogeneity using spectra of scattered waves 17 p2706 N84-27230
Algorithm for determining coordinates of hypocenters of near earthquakes and seismic wave propagation velocity in layer 17 p2706 N84-27235
Effects of lateral heterogeneities on the propagation, scattering, and attenuation of the seismic waves and the characterization of the seismic source
[AD-A140595] 17 p2727 N84-27359
Procedures for dealing with seismically induced settlements
[AD-A140775] 17 p2728 N84-27361
Strong earthquake spatial-temporal correlations 18 p2860 N84-28162
Seismic tomography of the Earth's interior 18 p2879 N84-28276
Tomographic velocity estimation in the presence of low velocity zones — seismic waves
[FOA-C-20535-E1] 18 p2880 N84-28287
Concrete behavior under dynamic tensile-compressive load
[AD-A141735] 19 p3036 N84-29255
System identification of structures with joint rotation
[PB84-192210] 20 p3205 N84-30357
Common data base experiment: Detection and location capacity
[FOA-C-20538-T1] 20 p3316 N84-31058
Direct generation of seismic floor response spectra for classically and nonclassically damped structures
[PB84-191675] 21 p3445 N84-31860
The development of methods to predict both the dynamic and the pseudo-static response of secondary structures subjected to seismic excitations
[DE84-010284] 22 p3612 N84-32884
Modeling of elastic wave propagation by finite difference and finite element methods — seismology 23 p3777 N84-33944
Research and development support for the Center for Seismic Studies
[AD-A144442] 24 p3920 N84-34813
Large-scale numerical analysis of three-dimensional seismic waves
[AD-A144610] 24 p3920 N84-34814

SEISMOGRAMS
FINDIF: A software package to create synthetic seismograms by finite differences
[AD-A138904] 14 p2183 N84-24081

SEISMOGRAPHS
Marine seismic System(MSS) deployment. Phase IV: Investigation of techniques and deployment scenarios for installation of tri-axial seismometer in a borehole in the deep ocean
[AD-A132300] 04 p0563 N84-13710
Dip-moveout by Fourier transform 06 p0876 N84-15699
Constraints on the Earth's anelastic and aspherical structure from antipodal surface waves 06 p0876 N84-15700
Catalog of seismogram archives (revised)
[PB84-127976] 10 p1537 N84-20074
Seismological measurements on ocean floor 11 p1670 N84-20896
The upper mantle beneath the Cascade Range: A comparison with the Gulf of California
[NASA-CR-175428] 11 p1681 N84-20970
Ocean bottom seismic equipment 19 p3060 N84-29413
The system of time service for ocean bottom seismic observations 19 p3060 N84-29414
Ocean bottom seismograph operation: Certain problems of procedure 19 p3060 N84-29415
T-phase recording by OBS near the conjugation of the Kuril and Japan trenches 19 p3060 N84-29418
The seismicity of the continental slope of the Kuril trench from the OBS observations 19 p3061 N84-29420
On the elastic wave velocity distribution beneath the continental slope of the Kuril trench 19 p3061 N84-29421
Seismic response for multicomponent earthquakes
[PB84-193747] 20 p3204 N84-30354
Marine Seismic System (MSS) deployment. Phase 5: An investigation of techniques and deployment scenarios for installation of triaxial seismometer in a borehole in the deep ocean
[AD-A142873] 21 p3444 N84-31850
Seismological studies of the continental lithosphere
[PB84-194752] 21 p3446 N84-31862
Development of the model 52500 strain-inertial seismometer system (prototype)
[AD-A143572] 22 p3624 N84-32961

SEISMOLOGY
Cavity detection and delineation research. Part 2. Seismic methodology: Medford Cave Site, Florida
[AD-A131322] 02 p0249 N84-11627
Seismological studies at the Cerro Prieto field, 1978 - 1982
[DE83-013844] 02 p0250 N84-11633
Operation of a telemetered seismic network on the Alaska Peninsula
[DE83-016873] 02 p0250 N84-11636
System for recording, processing and interpreting vertical seismic profiles
[BMFT-FB-T-83-152] 02 p0250 N84-11638
Migration of natural gas and reservoir formation in east lower Saxony
[BMFT-FB-T-83-153] 02 p0250 N84-11639
Summaries of physical research in the geosciences
[DE83-017865] 04 p0550 N84-13624
Seismic investigation of the Multi-Well Experiment site
[DE84-000943] 04 p0555 N84-13655
Synthesis of regional crust and upper-mantle structure from seismic and gravity data
[E84-10061] 06 p0864 N84-15631
Wave propagation in porous rock and models for crustal structure 06 p0876 N84-15698
Constraints on the Earth's anelastic and aspherical structure from antipodal surface waves
06 p0876 N84-15700
Effective use of earthquake data
[AD-A134077] 06 p0878 N84-15712
The Norwegian Seismic Array (NORSAR). Phase 3
[AD-A134038] 06 p0878 N84-15713
Surface wave path corrections, deterministic discrimination and body wave attenuation
[AD-A133574] 06 p0878 N84-15714
Shock wave properties of anorthosite and gabbro
[NASA-CR-173309] 06 p1155 N84-17521
Homogeneous magnitude system of the Eurasian continent: S and L waves
[PB84-101161] 08 p1188 N84-17744
Proceedings, Seminar on Probabilistic Methods in Geotechnical Engineering
[AD-A136497] 09 p1345 N84-18786
Development of an advanced ocean-bottom sensor system
[AD-A135901] 09 p1345 N84-18788
Detection of bright spots in seismic signal using pattern recognition techniques
[AD-A136210] 09 p1346 N84-18793
The evolution of spectral techniques in Navy shock design 10 p1508 N84-19871
Combined sweeps for seismic reflection surveys using the VIBROSEIS system
[BMFT-FB-T-83-211] 10 p1537 N84-20073
Catalog of seismogram archives (revised)
[PB84-127976] 10 p1537 N84-20074
Seismological measurements on ocean floor
11 p1670 N84-20896
Tectonic deformation of the Andes and the configuration of the subducted slab in central Peru: Results from a micro-seismic experiment
[NASA-CR-175445] 11 p1681 N84-20972
Planned marine geophysical geological surveys of the Wilkes Land and Ross Sea margins
14 p2160 N84-23939
Strong motion program report
[USGS-CIRC-914] 14 p2175 N84-24028
Proceedings of the 12th Joint Panel Conference of the US-Japan Cooperative Program in Natural Resources: Wind and Seismic Effects
[PB84-167758] 15 p2318 N84-24911
Southern Great Basin seismological data report for 1981 and preliminary data analysis
[DE84-005687] 15 p2369 N84-25213
Magnetohydrodynamic generator helps predict earthquakes 17 p2700 N84-27199
Descriptive statistical model of earthquake focal radiation and its application in evaluating short-period strong movement 17 p2700 N84-27200
Seismicity as stochastic process with physical parameters 17 p2700 N84-27203
Geophysical and tectonic characteristics of Mongolian-Okhotsk seismic zone
17 p2701 N84-27206
Seismic model of Earth's crust in southern Sea of Okhotsk region and some results of its geological interpretation 17 p2701 N84-27207
Excitation of spheroidal oscillations in viscoelastic Earth 17 p2702 N84-27214
Nature of 640-KM seismic boundary
17 p2703 N84-27216
Problems in seismic anisotropy of thin-layered media
18 p2859 N84-28157
Detailed study of Earth's crust in Baykal rift zone according to refracted waves data
18 p2860 N84-28160
Faults and nature of seismic discontinuities in continental crust section 18 p2860 N84-28161
Characteristic rock dimensions and hierarchical properties of seismicity 18 p2863 N84-28176
Seismic tomography of the Earth's interior
18 p2879 N84-28278
Earthquake hazards 19 p3038 N84-29270
Seismological Research on the World Ocean
[REPT-9279] 19 p3059 N84-29411
The seismological investigations of the World Ocean: The state of the problem 19 p3059 N84-29412
Seismological investigations in the Indian Ocean by autonomous OBS 19 p3060 N84-29416
Seismological observations during the I and II Soviet-American expeditions for tsunami study in the open sea 19 p3060 N84-29417
Seismicity of Iceland and the adjoining region of the Atlantic Ocean 19 p3061 N84-29423
Research activities of the Geodynamics Branch
[NASA-TM-86123] 20 p3220 N84-30455
Crustal deformation and earthquakes
20 p3220 N84-30457
Geodynamics of crustal deformation and seismotectonic block movements in central Europe
20 p3220 N84-30460
Dependence of crustal structure of eastern Pacific Ocean on its age 20 p3223 N84-30483
Structure of ocean floor in relation to conditions for formation of lithosphere 20 p3223 N84-30484
Developments of research on prediction of earthquakes, tsunami and volcanic eruptions in Far East
20 p3224 N84-30485
Seismicity of the Paradox Basin and the Colorado Plateau interior
[DE84-011620] 20 p3228 N84-30516
Geokinetic effects on motion sensitive instrumentation, systems and facilities
[AD-A142682] 20 p3241 N84-30575
Natural phenomena hazards modeling project: Extreme wind-tornado hazard models for Department of Energy sites
[DE84-011157] 20 p3247 N84-30608
Geology, hydrology, and mineral resources of crystalline rock areas of the Lake Superior region, US, part 1 --- Michigan, Wisconsin, and Minnesota
[DE84-012682] 21 p3432 N84-31775
Seismicity and crustal structure studies of southern California: Tectonic implications from improved earthquake locations 21 p3439 N84-31819
Japan Sea central region tsunami of 26 May 1983. A reconnaissance report
[PB84-194703] 21 p3451 N84-31901
Seismic analysis capability in NASTRAN
22 p3610 N84-32871
Seismic hazard study for selected sites in New Mexico and Nevada
[AD-A143392] 22 p3623 N84-32960
The shear wave velocity structure of the lithosphere in central and northern California 23 p3795 N84-34063
Crustal shear velocity modelling in Nevada: A study of broadband multi-mode surface waves
24 p3918 N84-34802
Some boundary integral equation methods and their application to seismic exploration
24 p3918 N84-34803
Research and development support for the Center for Seismic Studies
[AD-A144442] 24 p3920 N84-34813

SEISMOMETERS
U SEISMOGRAPHS

SELECTION
NT PERSONNEL SELECTION
NT PILOT SELECTION
NT SITE SELECTION
A note on optimal and robust spacing selection
[AD-A130427] 01 p0136 N84-10888
On two-stage bayes selection procedures
[AD-A130301] 01 p0136 N84-10890
Optimal sampling in selection problems
[AD-A130248] 01 p0136 N84-10891
Selection procedures for optimal subsets of regression variables
[AD-A131567] 02 p0285 N84-11869
Selecting a subset of regression variables so as to maximize the prediction accuracy at a specified point
[CSIR-TWISK-275] 04 p0591 N84-13903
A multiple ranking procedure adapted to discrete-event simulation
[AD-A133649] 05 p0740 N84-14860
An estimation problem relating to subset selection for normal populations
[AD-A133367] 06 p0904 N84-15870
On using selection procedures with binomial models
[AD-A135275] 08 p1219 N84-17957
Nonparametric selection procedures for a two-way layout problem
[AD-A135385] 08 p1220 N84-17962
Effort and accuracy in choice
[AD-A136881] 10 p1550 N84-20161
Automated Instructional Media Selection (AIMS)
[AD-A135749] 10 p1552 N84-20168
On the optimality of some subset selection procedures
[AD-A140180] 16 p2549 N84-26362
Bayes-p′ subset selection procedures for the best population
[AD-A140179] 16 p2551 N84-26367
Sampling report for the study of personal CO (carbon monoxide) exposure
[PB84-181957] 20 p3239 N84-30560

SELECTIVE DISSEMINATION OF INFORMATION
Guide to the bibliographic format used by the Carbon Dioxide Information Center
[DE84-004109] 09 p1280 N84-18361
The Application of New Technologies to Improve the Delivery of Aerospace and Defence Information
[AGARD-CP-357] 11 p1750 N84-21425
Sharing command languages and software
11 p1751 N84-21426
Word processors in aerospace/defense information services: Use of distributed information systems by the Office of the Secretary of Defense
11 p1751 N84-21429
Scientific numeric databases
11 p1751 N84-21430
Management of aerospace contract documentation by industry and government 11 p1752 N84-21434
Project FIRST (Faculty Information and Research Service for Texas) technical description of project and results
[PB84-161629] 14 p2248 N84-24501
A consideration on the capability of receiving character-information
[NHK-SERIAL-294] 15 p2417 N84-25511
Technology transfer
[H-REPT-98-15] 15 p2419 N84-25526
Meteorologic report based on the work of Oosterscheldewerken
[KNMI-TR-45] 16 p2529 N84-26236
The Pilot Land Data System: Report of the Program Planning Workshops
[NASA-TM-86250] 16 p2566 N84-26468

SELECTIVE FADING
Effect of leap length on the quality of large capacity numerical linkages 15 p2324 N84-24954
Performance of digital communications over selective fading channels
[AD-A142427] 20 p3174 N84-30158

SELECTIVITY
Ion exchange selectivity of Nafion films on electrode surfaces
[AD-A140824] 17 p2620 N84-26764
Method of enhancing selective isotope desorption from metals
[DE84-011031] 20 p3156 N84-30044
High performance liquid chromatographic studies of the ion exchange selectivity of Nafion
[AD-A144646] 24 p3881 N84-34585

SELECTORS
H. F. Frequency management by frequency sharing as assisted by models updated in real-time
[AD-A139896] 15 p2321 N84-24936

SELENIDES
NT CADMIUM SELENIDES
NT COPPER SELENIDES
NT ZINC SELENIDES
Far infrared optical properties of WbSe3
[DE84-009223] 21 p3498 N84-32173

SELENIUM
Electrochemical and surface studies of the deposition of mercury and selenium at a gold electrode
[DE84-007209] 15 p2299 N84-24798
Atmospheric selenium
[CM-66] 17 p2728 N84-27366
Holographic interferometry using 20-picosecond UV pulses to obtain time resolved hydro measurements of selenium and gold plasmas
[DE84-009485] 20 p3191 N84-30289

SELENIUM ALLOYS
TDPAC (Time Differential Perturbed Angular Correlations) study of liquid and amorphous se sub (1-x)Te sub x alloys
[AD-A135588] 09 p1279 N84-18353

SELENIUM COMPOUNDS
NT CADMIUM SELENIDES
NT COPPER SELENIDES
NT SELENIDES
NT ZINC SELENIDES
Impact of weak electric field on photoconductivity of modified vitreous As2Se3 20 p3286 N84-30867

Electron-microscopic microstructural examination of glassy Ge-Se semiconductors 20 p3267 N84-30871

SELENOLOGY

Fifteenth Lunar and Planetary Science Conference. Press Abstracts
[NASA-CR-175409] 11 p1754 N84-21448

Origin of the Moon: In search of the holy grail — volcanic glass 11 p1754 N84-21451

SELF ADAPTIVE CONTROL SYSTEMS

Articles in self-tuning and adaptive control
[OUEL-1474/83] 07 p1057 N84-16845

Introduction to self-tuning controllers 07 p1057 N84-16846

Implementation of self-tuning controllers 07 p1057 N84-16847

Adaptive machines: Examples of architecture, modeling and evaluation
[ENST-E-83009] 09 p1366 N84-18916

A learning adaptive controller 10 p1568 N84-20272

SELF ALIGNMENT

Electrical self-aligning connector — orbital servicer vehicles
[NASA-CASE-MFS-25211-2] 05 p0673 N84-14423

A wide field-of-view CRT projection system with optical feedback for self alignment
[AD-P003447] 21 p3508 N84-32224

SELF CONSISTENT FIELDS

Applications of molecular quantum mechanics to problems in chemistry
[DE83-015943] 03 p0456 N84-13003

Self-consistent magnetosphere for a static aligned rotator 04 p0619 N84-14085

A study of the CH2NO2 radical using a multiconfigurational self-consistent field approach
[AD-A133815] 05 p0648 N84-14262

SELF DEPLOYING SPACE STATIONS

U SELF ERECTING DEVICES
U SPACE STATIONS

SELF DIFFUSION (SOLID STATE)

Simple structural unit model for core-dependent properties of symmetrical tilt boundaries
[DE83-012620] 01 p0044 N84-10284

Diffusion mechanisms in transition-metal oxides
[DE84-003460] 08 p1236 N84-18081

Measurement and calculation of parameters in the silox diffusion process — semiconductor devices
[EUT-83-E-133] 13 p2048 N84-23289

SELF ERECTING DEVICES

Foldable self-erecting joint — space erectable structures
[NASA-CASE-MSC-20635-1] 22 p3542 N84-32424

SELF EXCITATION

Interactive structural-thermal-control analytical formulations — large space structures 12 p1781 N84-21619

SELF FOCUSING

Optical bistability based on self-focusing 14 p2237 N84-24424

SELF INDUCED VIBRATION

NT PANEL FLUTTER
NT SUBSONIC FLUTTER
NT SUPERSONIC FLUTTER
NT TRANSONIC FLUTTER

SELF OSCILLATION

Self-oscillations and predictability in climate dynamics
[AERONOMICA-ACTA-A-278-1984] 16 p2527 N84-26226

SELF REGULATING

U AUTOMATIC CONTROL

SELF SEALING

Oxidizing seal for a turbine tip gas path
[NASA-CASE-LEW-14053-1] 13 p1932 N84-22563

SELF SUBTRACTION HOLOGRAPHY

U HOLOGRAPHIC SUBTRACTION

SEMANTICS

Weighing evidence: The design and comparison of probability
[AD-A131475] 01 p0137 N84-10896

Mapping between semantic representations using Horn clauses
[AD-A131531] 02 p0273 N84-11787

SISAL: Streams and Iteration in a Single-Assignment Language. Language reference manual, version 1.1
[DE83-016576] 04 p0582 N84-13843

Specification and interpretation of data model semantics: An integration of two approaches
[PB83-249714] 04 p0584 N84-13856

Space-time algorithms: Semantics and Methodology 05 p0721 N84-14726

Analyzing the roles of descriptions and actions in open systems
[AD-A133614] 06 p0905 N84-15878

A proof rule for restoring logic circuits
[MC-IW-227/83] 07 p1000 N84-16484

Multilevel semantic analysis and problem-solving in the flight-domain
[NASA-CR-173177] 07 p1050 N84-16804

The axiomatic semantics of programs based on Hoare's logic
[MC-IW-236/83] 07 p1056 N84-16841

A linguistic overview of the Nigel text generation grammar
[AD-A134491] 07 p1057 N84-16849

An abstraction mechanism for process algebra
[MC-IW-231/83] 07 p1066 N84-16916

On specifying sets of integers
[MC-IW-237/83] 07 p1066 N84-16919

Foundations of computer science 4. Distributed systems. Part 2: Semantics and logic
[MATH-CENTRE-TRACTS-159-PT-2] 08 p1208 N84-17879

Processes and the denotational semantics of concurrency 08 p1208 N84-17881

Ten years of Hoare's logic, a survey. Part 2: Nondeterminism 08 p1209 N84-17882

The fairness problem and nondeterministic computing networks 08 p1209 N84-17883

A demand-driven, coroutine-based implementation of a nonprocedural language 08 p1211 N84-17895

Inquiry semantics: A functional semantics of natural language grammar
[AD-A135153] 08 p1215 N84-17929

Reasoning about digital circuits
[AD-A136634] 09 p1365 N84-18914

Active databases as a paradigm for enhanced computing environments
[AD-A135808] 09 p1404 N84-19177

Extending grammars to new domains
[AD-A137110] 10 p1567 N84-20266

Compactness in semantics for merge and fair merge
[MC-IW-238/83] 13 p2035 N84-23199

Process algebra semantics for queues
[MC-IW-241/83] 13 p2037 N84-23219

Systemic grammar in computation: The Nigel case
[AD-A139251] 14 p2209 N84-24262

DANTE: A semantic data model for use in the construction sector
[KU-IB-17/83] 17 p2754 N84-27480

Kernel Ada Programming Support Environment (KAPSE) interface team, public report, volume 3
[AD-A141576] 19 p3077 N84-29523

A new approach to database logic
[AD-A141130] 19 p3115 N84-29795

Syntax and semantics of a LINCS control monologue
[DE84-011399] 20 p3277 N84-30805

SEMICIRCULAR CANALS

An unusual toxicological property of alcohol: The density effect on the organ of balance 22 p3632 N84-33016

SEMICONDUCTING FILMS

Study of the physics of insulating films as related to the reliability of metal-oxide semiconductor devices
[AD-A133674] 05 p0754 N84-14944

Solid State Photovoltaics Research Branch
[DE84-000022] 07 p1083 N84-17043

Material growth and characterization for solid state devices
[NASA-CR-173265] 10 p1587 N84-20401

Subbarrier absorption in a stationary superlattice
[NASA-TM-77387] 10 p1587 N84-20402

Laser chemical vapor deposition
[AD-A137827] 11 p1663 N84-20850

Laser screens of ZnSe produced by bridgeman method 12 p1787 N84-21658

Transparent conductive coatings 12 p1840 N84-21999

Fundamental studies of growth, doping and transformation in beta silicon carbide
[AD-A139179] 14 p2241 N84-24458

Chemical vapor deposition of amorphous semiconductor films
[DE84-004489] 20 p3311 N84-31026

Piezoelectric shear wave resonator and method of making same
[DE84-014528] 23 p3751 N84-33780

Thin-film photovoltaic research and development program of the Solar Energy Research Institute
[SERI/TP-211-2125] 23 p3829 N84-34290

SEMICONDUCTOR DEVICES

NT AVALANCHE DIODES
NT BIPOLAR TRANSISTORS
NT CHARGE COUPLED DEVICES
NT CHARGE TRANSFER DEVICES
NT CMOS
NT FIELD EFFECT TRANSISTORS
NT GALLIUM ARSENIDE LASERS
NT GERMANIUM DIODES
NT HETEROJUNCTION DEVICES
NT JFET
NT JUNCTION DIODES
NT JUNCTION TRANSISTORS
NT LIGHT EMITTING DIODES
NT METAL OXIDE SEMICONDUCTORS
NT MIS (SEMICONDUCTORS)
NT PHOTODIODES
NT PHOTOVOLTAIC CELLS
NT SCHOTTKY DIODES
NT SEMICONDUCTOR LASERS
NT SILICON CONTROLLED RECTIFIERS
NT SILICON TRANSISTORS
NT THERMISTORS
NT THYRISTORS
NT TRANSISTOR AMPLIFIERS
NT TRANSISTORS
NT VARACTOR DIODES

New developments in power semiconductors 01 p0011 N84-10065

Phthalocyanine derivatives specifically designed for fabrication of organic semiconductor gas sensors
[AD-A130611] 01 p0083 N84-10540

Implications of analytical investigations about the semiconductor equations on device modeling programs
[AD-A130549] 01 p0130 N84-10851

AVT 110 automatic multiple probe tester described 02 p0205 N84-11338

Reliability analysis of the gradual degradation of semiconductor devices
[AD-A131375] 02 p0213 N84-11395

Excited-state processes of relevance to photoelectrochemistry
[AD-A131300] 02 p0296 N84-11957

Dopants profiling techniques in semiconductor technology
[BMFT-FB-T-83-126] 02 p0300 N84-11972

Methods for deconvoluting and interpreting complex gamma and X-ray spectral regions
[DE83-013585] 03 p0454 N84-12991

Semiconductor measurement technology: A FORTRAN program for analysis of data from microelectronic test structures
[PB83-263764] 05 p0677 N84-14454

Silicon carbide, a high temperature semiconductor
[NASA-TM-83514] 05 p0752 N84-14932

European Scientific Notes, volume 37, number 8
[AD-A133938] 05 p0759 N84-14977

Modeling and testing for second breakdown phenomena
[DE84-002470] 07 p0994 N84-16444

Crystal growth of device quality GaAs in space
[NASA-CR-173148] 07 p1079 N84-17013

Semiconductor drift chamber: An application of a novel charge transport scheme
[DE84-002875] 07 p1082 N84-17038

Optimization of the parameters of the arc suppressing system of high-voltage apparatuses with a thyristor attachment
[BLL-OA-TRANS-3139-(6196.3)] 08 p1149 N84-17476

Effects of space radiation on advanced semiconductor devices. Part 1: A review of current theories and practice in cosmic ray simulation
[G-2532-VOL-1] 08 p1153 N84-17505

Chinese journal of infrared research (Selected articles)
[AD-A135504] 08 p1232 N84-18051

Further delineation of the utilization of scientific literature by U.S. patents. Appendices A: Distribution of references contained in patents to various sources
[PB84-100742] 08 p1239 N84-18096

A singular perturbation analysis of the fundamental semiconductor device equations
[AD-A136322] 09 p1373 N84-18964

Microwave semiconductor equipment produced in Poland
[AD-A137598] 11 p1646 N84-20762

Temperature compensation and shunt calibration of semiconductor pressure transducers
[AD-P002686] 11 p1658 N84-20821

Systems of nonlinear algebraic equations arising in simulation of semiconductors devices
[DE84-006490] 11 p1716 N84-21195

Studies of 3-5 compound semiconductors for optical and microwave applications
[AD-A137849] 11 p1744 N84-21381

Reliability analysis of multi-components systems
[AD-A138013] 12 p1824 N84-21890

Fundamentals of metal-semiconductor contacts 12 p1838 N84-21985

Diffusion barriers 12 p1839 N84-21987

Laser assisted deposition 12 p1840 N84-21998

Numerical methods for transient semiconductor device modelling
[AD-A137970] 12 p1913 N84-22462

The development and fabrication of an implantable, multiplexed, semiconductor multielectrode array
[AD-A138788] 13 p1986 N84-22695

Measurement and calculation of parameters in the silox diffusion process — semiconductor devices
[EUT-83-E-133] 13 p2048 N84-23269
Recent developments in the measurement of time-dependent pressures 14 p2100 N84-23601
Advances in GaAs bistable optical devices 14 p2233 N84-24394
Optically induced changes in the Faraday rotation spectra of the ferromagnetic semiconductor CdCr/sub 2/Se/sub 4 14 p2233 N84-24398
Resonant Frustrated Total Reflection (FTR) approach to optical bistability in semiconductors 14 p2234 N84-24405
Theory of resonance-enhanced optical nonlinearities in semiconductors 14 p2234 N84-24407
Room temperature optical nonlinearities in GaAs multiple quantum wells 14 p2235 N84-24408
Observation of bistability in a Josephson device 14 p2235 N84-24409
Simulations of the dynamics of optical bistability with fluctuations 14 p2236 N84-24421
Optical bistability in semiconductors 14 p2237 N84-24428
Accelerated testing
[DRIC-T-7073] 15 p2346 N84-25076
Studies on sub-micron devices with emphasis on MOS systems
[DE84-010029] 15 p2415 N84-25499
Application of semi-empirical Ge(Li) detector calibration technique for large volume samples
[DE83-012801] 16 p2494 N84-26004
A photovoltaic concentrator for 500 Wpk using a C50-Si generator and a glass-laminated metal membrane reflector
[BMFT-FB-T-84-050] 16 p2519 N84-26168
Fast decoding techniques for extended single-and-double-error-correcting Reed Solomon codes
[NASA-CR-173617] 16 p2543 N84-26325
Peculiarities of minimization of mixer noise factor 17 p2635 N84-26856
Complemented Scharfetter-Gummel condition 17 p2636 N84-26864
Impact ionization in semiconductors by microwave field in the presence of an arbitrarily oriented constant magnetic field 18 p2825 N84-27932
Role of charged state in build-up and annealing of deep centers in GaAs irradiated by protons 18 p2825 N84-27938
Effect of laminated structure in materials based on complexes with charge transfer 18 p2826 N84-27943
East Europe Report: Science and technology. Czechoslovakia: Computer technology examined
[JPRS-ESA-84-022] 18 p2918 N84-28499
Tesla computer semiconductor memory 18 p2918 N84-28501
A guideline for heavy ion radiation testing for Single Event Upset (SEU)
[NASA-CR-173731] 18 p2929 N84-28576
Crystal growth of device quality GaAs in space
[NASA-CR-173749] 18 p2935 N84-28613
Overview of characterization techniques for high speed crystal growth 18 p2936 N84-28619
High density circuit technology, part 3
[NASA-CR-162040] 19 p3012 N84-29090
Development of standardized specifications for screening space level integrated circuits and semiconductors
[NASA-CR-171100] 19 p3012 N84-29093
High density circuit technology, part 1
[NASA-CR-162006] 19 p3012 N84-29094
Research in computer simulation of integrated circuits
[AD-A141855] 19 p3013 N84-29101
Semiconductor multipactor device
[AD-D011067] 19 p3017 N84-29125
Organic semiconductor vapor sensing method
[AD-D011070] 19 p3017 N84-29127
Improvements of properties and quality of LED displays
[BMFT-FB-T-84-043] 19 p3019 N84-29140
Multiple gap optically activated switch
[AD-D011014] 19 p3104 N84-29723
Radiation upset threshold detector apparatus
[AD-D011030] 19 p3111 N84-29769
Quasi-Newton and multigrid methods for semiconductor device simulation
[DE84-006487] 19 p3112 N84-29773
Survey of atmospheric radiation components for the Gamma and Cosmic Ray Astrophysics Branch of the Space Science Division of the Naval Research Laboratory
[AD-A141134] 19 p3124 N84-29845
Measurement techniques for high-power semiconductor materials and devices
[DE84-010425] 20 p3309 N84-31016
Modelling of transfer processes in monopolar semiconductor structures with submicron dimensions 21 p3361 N84-31453
USSR report: Physics and mathematics
[JPRS-UPM-84-005] 21 p3484 N84-32081
Nonequilibrium optical and acoustic phonons in semiconductors 21 p3485 N84-32085
Probing a plasma with high-energy beams of atoms using threshold detectors
[DE84-013360] 21 p3502 N84-32195
USSR report: Electronics and electrical engineering
[JPRS-UEE-84-006] 22 p3565 N84-32580
Intermodulation in protective semiconductor microwave devices 22 p3571 N84-32612
Infrared nonlinear optics 22 p3682 N84-33346
East Europe report: Scientific affairs
[JPRS-ESA-84-007] 23 p3728 N84-33628
Imaging X-ray spectrometer
[NASA-CASE-GSC-12682-1] 23 p3749 N84-33765
Application of surface magnetoplasmons on semiconductor subetrates
[AD-A143767] 23 p3830 N84-34293
Direct writing of microstructures for microelectronics
[AD-A144528] 24 p3898 N84-34687
New developments in sensors
[AD-A144367] 24 p3903 N84-34712
Epitaxial thinning process
[NASA-CASE-NPO-15786-1] 24 p3966 N84-35112
Process and apparatus for growing a crystal ribbon
[NASA-CASE-NPO-15629-1] 24 p3966 N84-35113

SEMICONDUCTOR DIODES
NT AVALANCHE DIODES
NT GERMANIUM DIODES
NT GUNN DIODES
NT JUNCTION DIODES
NT LIGHT EMITTING DIODES
NT PHOTODIODES
NT SCHOTTKY DIODES
NT TUNNEL DIODES
NT VARACTOR DIODES

An FET full-bridge switcher for inductorless capacitor charging for Nova
[DE83-018005] 04 p0528 N84-13471
Functional electronic amplifiers with broad dynamic band
[AD-A133774] 05 p0675 N84-14433
Tunable far infrared semiconductor sources
[AD-A137777] 11 p1647 N84-20767
Diode pumped fiber laser
[AD-A138198] 12 p1820 N84-21866
Deep level impurities in germanium and silicon: Low temperature passivation or removal techniques
[DE84-006772] 13 p2048 N84-23286
Microwave phase modulators using semiconductor diodes (survey) 21 p3380 N84-31448
A comparative evaluation of new low-cost array field designs for grid-connected photovoltaic systems
[DE84-010978] 21 p3435 N84-31797
Radiation effects in optoelectronic devices
[DE84-012889] 21 p3499 N84-32176
Design and selection of bypass diodes 22 p3582 N84-32688
Development of long wavelength semiconductor diode lasers near 28 microns for use in infrared heterodyne spectrometers
[NASA-CR-175253] 22 p3600 N84-32802

SEMICONDUCTOR JUNCTIONS
NT MBM JUNCTIONS
NT N-N JUNCTIONS
NT P-I-N JUNCTIONS
NT P-N JUNCTIONS
NT SILICON JUNCTIONS

A simple model of space radiation damage in GaAs solar cells
[NASA-TP-2242] 04 p0603 N84-13978
Microscopic study of semiconductor heterojunctions 05 p0757 N84-14962
An electromagnetic squeezer for compressing squeezable electron tunneling junctions
[AD-A136668] 10 p1588 N84-20410
Computation of current-voltage-characteristics in a semiconductor device using arc-length continuation
[AD-A137919] 11 p1647 N84-20770
The growth and characterization of single crystal (Cd, Zn)S thin films relevant to the study of the (Cd, Zn)S/Cu/sub x/S photovoltaic cell
[DE84-003288] 11 p1745 N84-21385
Solar-assisted hydrogen generation by photoelectrocatalysis: Electric birefringence and ellipsometric spectroscopy of the semiconductor/electrolyte interface
[PB84-169804] 15 p2288 N84-24731
Radiation Damage Workshop 19 p3049 N84-29346
Quantum well multijunction photovoltaic cell
[DE84-011113] 21 p3393 N84-31529
Process research of non-CZ silicon material
[NASA-CR-173954] 23 p3787 N84-34017
Progress research of non-Cz silicon material
[NASA-CR-173949] 23 p3787 N84-34021
Development and fabrication of a solar cell junction processing system
[NASA-CR-174948] 23 p3788 N84-34024
Process for forming pure silver ohmic contacts to N- and P-type gallium arsenide materials
[DE84-014515] 23 p3831 N84-34298

SEMICONDUCTOR LASERS
NT GALLIUM ARSENIDE LASERS

3-5 semiconductor lasers and detectors 07 p1009 N84-16541
Long wavelength InGaAsP/InP lasers and optoelectronic integration 08 p1163 N84-17573
Reliability modeling of critical electronic devices
[AD-A135705] 09 p1328 N84-18669
Diode pumped fiber laser
[AD-A138198] 12 p1820 N84-21866
Possibilities of infrared spectroscopy with tunable semiconductro lasers
[ONERA-NT-1983-4] 16 p2462 N84-25782
Locking of diode gain modules using optical conjugation techniques
[AD-A141234] 18 p2846 N84-28075
Minutes of the Fiber Optics Standardization Planning Meeting
[AD-A142152] 19 p3104 N84-29722
Waveguide characteristics of resonators with arbitrary distribution of dielectric permittivity 21 p3380 N84-31451
Source of optical pumping for high-resolution spectroscopy with semiconductor laser 21 p3482 N84-32070
Picosecond parametric optical oscillator with amplification of radiation from tunable semiconductor laser 21 p3487 N84-32097
Radiation effects in optoelectronic devices
[DE84-012889] 21 p3499 N84-32176
The Record of Electrical and Communication Engineering Conversazione, volume 53, no. 1, Jul. 1984
[ISSN-0385-7719] 22 p3563 N84-32565
A study on accurate frequency-control of semiconductor lasers 22 p3563 N84-32568
Development of long wavelength semiconductor diode lasers near 28 microns for use in infrared heterodyne spectrometers
[NASA-CR-175253] 22 p3600 N84-32802
Optical propagation and communication 22 p3683 N84-33355
High reliability semiconductor lasers for data links between satellites 24 p3904 N84-34724
Experimental assessment of semiconductor lasers for optical data links in space 24 p3905 N84-34729

SEMICONDUCTOR PLASMAS

Semiconductors investigated by time resolved Raman absorption and photoluminescence spectroscopy using femtosecond and picosecond laser techniques
[AD-A141381] 19 p3029 N84-29209
Application of surface magnetoplasmons on semiconductor substrates
[AD-A143767] 23 p3830 N84-34293

SEMICONDUCTORS (MATERIALS)
NT ACCEPTOR MATERIALS
NT AMORPHOUS SEMICONDUCTORS
NT CHARGE TRANSFER DEVICES
NT CMOS
NT DONOR MATERIALS
NT METAL OXIDE SEMICONDUCTORS
NT METAL-NITRIDE-OXIDE-SEMICONDUCTORS
NT METAL-NITRIDE-OXIDE-SILICON
NT MIS (SEMICONDUCTORS)
NT N-TYPE SEMICONDUCTORS
NT ORGANIC SEMICONDUCTORS
NT P-TYPE SEMICONDUCTORS
NT PHOTOCONDUCTORS
NT SUPERLATTICES

Cycloconverter on the all-electric airplane 01 p0011 N84-10069
Study of deep-level defects and transport properties vs. growth parameters and annealing conditions in III-IV compound semiconductors
[AD-A130776] 01 p0153 N84-11008
Axial-channeling studies of strained layer superlattices
[DE83-013309] 01 p0154 N84-11010
Calculations of Channeling in Semiconductor Superlattices
[DE83-012040] 01 p0154 N84-11011
Photoconductive power switches
[DE83-015239] 02 p0224 N84-11469
Characterization of infrared optical properties of transparent materials
[AD-A131554] 02 p0294 N84-11930

A cluster model for two-dimensional disordered systems
[INPE-2695-PRE/414] 02 p0298 N84-11953
Matrix calibration for the quantitative analysis of layered semiconductors by secondary ion mass spectrometry
[AD-A130972] 02 p0298 N84-11954
Semiconductor surface characterization using transverse acoustoelectric voltage versus voltage measurements
[AD-A131347] 02 p0298 N84-11955
Atomic and electronic structure of defects in semiconductors
[AD-A131539] 02 p0299 N84-11960
Effects of pressure on deep electronic levels in semiconductors
[DE83-016247] 02 p0299 N84-11965
Crystal growth and applications of mercuric iodide
[DE83-016731] 02 p0299 N84-11966
Semiconductors investigated by time resolved raman absorption and photoluminescence spectroscopy using femtosecond and picosecond laser techniques
[AD-A131860] 03 p0379 N84-12466
Semiconductor processing with excimer lasers
[DE83-007509] 03 p0380 N84-12477
Surface and interfacial properties of Ga(0.47) In(0.53) As alloys
[AD-A131925] 03 p0451 N84-12970
Clustering and ordering in 3-5 alloys
[AD-A131785] 03 p0452 N84-12974
Liquid phase epitaxy of InP/In1-xGxAsyP1-y heterostructures. Part 3: Phase diagrams
[FI-65-TBR-20-PT-3] 03 p0456 N84-13000
Effects of simultaneous phosphorus and arsenic diffusions on emitter push and dislocation generation
[AD-A132331] 04 p0612 N84-14042
Dynamic aspects of the dye-sensitized photoconductivity of semiconductors
[DE84-001132] 04 p0615 N84-14059
Research activities that occurred in the Coordinated Science Laboratory for July 1, 1982 through Jun 30, 1983
[AD-A132132] 04 p0623 N84-14108
Development of short gate FET's
[AD-A133852] 05 p0674 N84-14431
Defect studies in semiconductors
05 p0752 N84-14931
Point-by-Point matrix effect calibration for the quantitative analysis of layered semiconductors by secondary ion mass spectrometry
[AD-A134099] 05 p0752 N84-14933
Studies of the electronic properties of two-dimensionally confined carriers in MIS (Metal-Insulator-Semiconductor) Inversion/Accumulation layers, heterojunctions and quantum wells
[AD-A134094] 05 p0752 N84-14935
Thermal property measurement techniques and some results for CdTe
[AD-A133899] 05 p0753 N84-14936
Study of 1/f noise in solids
[AD-A133856] 05 p0753 N84-14939
Laser and electron beam processing of semiconductors: CW beam-recrystallized polysilicon as a device-worthy material
[AD-A133759] 05 p0753 N84-14942
Evaluation of gallium nitride for active microwave devices
[AD-A132988] 05 p0754 N84-14947
Etching of defects on crystal surfaces
06 p0814 N84-15300
Surface photoluminescence and it application
06 p0815 N84-15304
Large area non-crystalline semiconductor detectors
06 p0912 N84-15925
Study of phase diagrams of ternary semiconductors
[AD-A133556] 06 p0923 N84-16000
Organometallic epitaxy for GaAs/AlGaAs microwave transistors and integrated circuits
[AD-A133589] 06 p0923 N84-16001
InAsSb strained-layer superlattices for long wavelength detector applications
[DE84-001055] 06 p0924 N84-16004
An In0 2Ga0 8As/GaAs, modulation-doped, strained-layer superlattice field-effect transistor
[DE84-000136] 06 p0924 N84-16006
Project objectives and progress at the Research Laboratory of Electronics
[RLE-125] 06 p0926 N84-16016
Compositional segregation in unidirectionally solidified solid solution crystals 06 p0932 N84-16055
Silicon switch development for optical pulse generation in fusion lasers at Lawrence Livermore National Laboratory
[DE84-002798] 07 p1011 N84-16558
Solar cells of metal-free phthalocyanine dispersed in polyvinyl carbazole. 1: Effects of the recrystallization of H2PC on cell characteristics
[NASA-TM-77043] 07 p1025 N84-16639
The hydrogen molecule for a two-dimensional system — doped semiconductors
[INPE-2981-PRE/443] 07 p1071 N84-16968
Clustering model in n-doped many-valley semiconductors
[INPE-2911-PRE/424] 07 p1079 N84-17015
Optical excitation of trapping states in Fe doped InP
[AD-A134183] 07 p1080 N84-17019
Species-specific densities of states of ga and as in the chemisorption of oxygen on GaAs(110)
[AD-A134416] 07 p1080 N84-17024
Workshop on the Physics and Modeling of Submicron Structures
[AD-A134528] 07 p1081 N84-17026
Material properties of semiconductor strained-layer superlattices
[DE84-002103] 07 p1082 N84-17034
Ultrastructure processing and environmental stability of advanced structural and electronic materials
[AD-A135107] 08 p1136 N84-17391
The use of diamond core saws in the electronics industry
[CSIR-TRANS-1702] 08 p1140 N84-17417
Inexpensive solid-state trigger unit for thyratrons
[DE84-001424] 08 p1152 N84-17501
Assessment of the potential of Langmuir-Blodgett films for room temperature IR (infrared) detectors
[AD-A134616] 08 p1161 N84-17561
Elementary excitations in semiconductor superlattices structurees 08 p1234 N84-18065
Thermal conductivity of ternary and quaternary III-V compounds
[AD-A135336] 08 p1235 N84-18070
High field transport of free carriers at the SI-SIO2 interface
[AD-A135338] 08 p1235 N84-18071
Electron ballistic effects in III-V semiconductors
[AD-A135353] 08 p1235 N84-18072
Spectroscopy of thermal energy transport
[AD-A134670] 08 p1235 N84-18073
The physics of second breakdown
[AD-A136537] 09 p1395 N84-19109
Theoretical and experimental investigation of heterojunction interfaces
[AD-A135696] 09 p1395 N84-19111
Picosecond laser pulse interactions with metallic and semiconductor surfaces
[AD-A135693] 09 p1395 N84-19112
Fundamental radiation damage processes in silicon
[AD-A136033] 09 p1396 N84-19119
Metal contacts in semiconductors
[AD-A136109] 09 p1396 N84-19120
Scientific report on the International Conference on Metastable and Modulated Semiconductor Structures (MMSS) held at Pasadena, California on 6-10 December 1982
[AD-A136204] 09 p1396 N84-19121
Material growth and characterization for solid state devices
[NASA-CR-173265] 10 p1587 N84-20401
The preparation of BP single crystals by high pressure flux method
[NASA-TM-77389] 10 p1587 N84-20403
A method for solving Boltzmann's equation in semiconductors by expansion in Legendre polynomials
[EUT-83-E-134] 10 p1590 N84-20420
Tunable far infrared semiconductor sources
[AD-A137777] 11 p1647 N84-20767
Center for Electronics and Electrical Engineering Technical Progress Bulletin covering center programs, October - December 1982
[PB84-137322] 11 p1705 N84-21115
Studies of 3-5 compound semiconductors for optical and microwave applications
[AD-A137849] 11 p1744 N84-21381
Two-dimensional impurity bands at semiconductor hetero-structure interfaces
[INPE-2996-PRE/448] 12 p1912 N84-22456
Superlattices and semiconductor/semiconductor interfaces
[AD-A138149] 12 p1913 N84-22465
Advances in solid state switchgear technology for large space power systems
[NASA-TM-83652] 13 p1966 N84-22891
Photoelectrochemical cells including chalcogenophosphate photoelectrodes
[NASA-CASE-LAR-12958-1] 13 p2007 N84-23019
Room temperature optical bistability in semiconductors and realization of optical and gates
14 p2233 N84-24393
Nonlinearities at the bandgap in InAs
14 p2233 N84-24395
Cyclotron bistability of electrons in vacuum and semiconductors 14 p2236 N84-24418
Investigation of nonlinear optical properties of semiconductors
[AD-A139227] 14 p2242 N84-24459
Charge separation on semiconductor surfaces: Basic aspects
[DE84-007214] 14 p2244 N84-24472
The 6th International Conference on Computing Methods in Applied Sciences and Engineering
[AD-A139824] 15 p2317 N84-24906
LSI/VLSI (Large Scale Integration/Very Large Scale Integration) ion implanted GaAs (Gallium Arsenide) IC processing. Appendix A: Feasibility analysis of Gallium-Arsenide mask programmable functions and logic arrays for high performance communications systems
[AD-A139677] 15 p2328 N84-24980
LSI/VLSI (Large Scale Integration/Very Large Scale Integration) ion implanted GaAs (Gallium Arsenide) IC processing. Appendix B: Two-dimensional modeling of GaAs MESFET devices for integrated high-speed logic circuits
[AD-A139678] 15 p2328 N84-24981
Theoretical study of neutron scattering cross sections in semiconductors
[DE84-007540] 15 p2415 N84-25498
Conductivity in semiconductors induced by vibrational-to-electronic energy transfer
[AD-A140094] 16 p2553 N84-26380
Impurity states in 2- and 3-dimensional disordered systems
[INPE-3066-PRE/483] 16 p2559 N84-26416
Evaluation of precision of triangulation method of determining coordinates 17 p2637 N84-26869
Analysis of transmission lines on semiconductor substrate
[AD-A140711] 17 p2663 N84-26987
Proceedings of the 5th Symposium on applied surface analysis
[AD-A140744] 17 p2768 N84-27576
ONR (Office of Naval Research) Far East Scientific Bulletin. Volume 9, Number 1, January to March 1984
[AD-A140828] 17 p2770 N84-27589
Passage of strong electromagnetic pulse through semiconductor in external magnetic field
18 p2824 N84-27930
Effect of electric field on build-up and annealing of E5-centers in GaAs 18 p2825 N84-27934
Spectral dependence of magnetoresistivity in heterophase photoconductors based on CdSe
18 p2825 N84-27935
Dependence of properties of Josephson junctions at semiconductor surface on parameters of subsurface layer 18 p2825 N84-27936
Tesla computer semiconductor memory
18 p2918 N84-28501
Crystal growth of device quality GaAs in space
[NASA-CR-173749] 18 p2935 N84-28613
High speed crystal growth by Q-switched laser melting
18 p2938 N84-28637
Infrared nonlinear processes in semiconductors
[AD-A141032] 18 p2940 N84-28649
Band structure effects in the electronic properties of solids assessible in neutron scattering studies
[DE84-008557] 18 p2941 N84-28654
Furnace transient anneal process and apparatus
[AD-D011048] 19 p3002 N84-29027
High density circuit technology
[NASA-CR-162041] 19 p3012 N84-29091
High power optical switch for microsecond switching
[AD-D011064] 19 p3017 N84-29123
Semiconductors investigated by time resolved Raman absorption and photoluminescence spectroscopy using femtosecond and picosecond laser techniques
[AD-A141361] 19 p3029 N84-29209
Flat-plate solar array project: Experimental process system development unit for producing semiconductor-grade silicon using the silane-to-silicon process
[NASA-CR-173762] 19 p3049 N84-29348
Metal-semiconductor phase transition and its application
[BLL-DRIC-T-7149-(3623.66)] 19 p3109 N84-29757
High resolution measurements of impurity-induced localized vibrational modes in semiconductors
[AD-A141577] 19 p3110 N84-29762
Schottky barrier photoelectrodes with a variable barrier height
[AD-A141813] 19 p3111 N84-29765
The 6th European Specialist Workshop on Active Microwave Semiconductor Devices 4-6 may 1983
[AD-A142252] 20 p3177 N84-30180
USSR report: Physics and mathematics
[JPRS-UPM-84-001] 20 p3285 N84-30862

Detecting optical polarization of nuclei in semiconductors with super-conducting quantum interferometer
20 p3286 N84-30865

New phase transition in Si and GaAs exposed to picosecond laser pulses
20 p3286 N84-30866

Electron-microscopic microstructural examination of glassy Ge-Se semiconductors
20 p3287 N84-30871

Diffusion and electrical properties of sulfur implanted in gallium arsenide
[AD-A142405] 20 p3308 N84-31012

USSR report: Physics and mathematics
[JPRS-UPM-84-003] 21 p3477 N84-32043

Electrical characteristics of metal-dielectric-semiconductor systems produced on epitaxial silicon structures with various dielectrics
21 p3479 N84-32052

Superlattice structures grown by molecular beam epitaxy
[DE84-011288] 21 p3505 N84-32209

The friction behavior of semiconductors Si and GaAs in contact with pure metals
[NASA-TM-83779] 22 p3558 N84-32531

Laser furnace technology for zone refining
[NASA-TM-86459] 22 p3600 N84-32805

A new solar cell design for improved open circuit voltage and high efficiency
[NASA-CASE-NPO-16126-1] 22 p3616 N84-32911

Polycrystalline silicon study: Low-cost silicon refining technology prospects and semiconductor-grade polycrystalline silicon availability through 1986
[NASA-CR-173897] 22 p3662 N84-33213

Basic problems in InP technology
[AD-A143456] 22 p3663 N84-33222

Quantum structure of adsorbates on semiconductor surfaces
[AD-A143465] 22 p3663 N84-33223

Impurity and defect characterization in epitaxial GaAs InP and the ternary and quaternary compound semiconductors
[AD-A143551] 22 p3664 N84-33225

Formation of electron-hole pairs in a semiconductor by vibrationally-excited molecules
[AD-A143552] 22 p3664 N84-33226

Non-destructive testing of semiconductors using surface acoustic wave
[AD-A143559] 22 p3664 N84-33228

Process for the epitaxial deposition of III-V compounds utilizing a binary alloy as the metallic source
[AD-D011097] 22 p3664 N84-33229

Local electronic properties of semiconductor surfaces and interfaces
[DE84-013808] 22 p3666 N84-33239

Infrared absorption spectrum of free carriers in polar semiconductors
[DE84-013276] 22 p3667 N84-33248

RLE Progress Report no. 126
[RLE-PR-126] 22 p3681 N84-33336

Semiconductor surface studies
22 p3681 N84-33338

Friction behavior of silicon in contact with titanium, nickel, silver and copper
[NASA-TP-2362] 23 p3723 N84-33590

Development of a polysilicon process based on chemical vapor deposition, phase 1 and phase 2
[NASA-CR-173957] 23 p3786 N84-34015

Process Research of Polycrystalline Silicon Material (PROPSM)
[NASA-CR-173935] 23 p3789 N84-34033

Characterization of infrared optical properties of transparent materials
[AD-A143968] 23 p3825 N84-34257

Crystallization of cubic boron nitride in the presence of silicon
[CSIR-TRANS-1753] 23 p3829 N84-34289

Compound semiconductor characterization
[AD-A143601] 23 p3830 N84-34292

Application of surface magnetoplasmons on semiconductor substrates
[AD-A143767] 23 p3830 N84-34293

Polyacetylene and K
24 p3868 N84-34511

West Europe report: Science and technology, no. 157
[JPRS-84434] 24 p3892 N84-34645

Swedish firm first in Scandinavia to master GaAs technology
24 p3892 N84-34646

Direct writing of microstructures for microelectronics
[AD-A144528] 24 p3898 N84-34687

Optical properties of amorphous silicon: Some problem areas
[DE84-701201] 24 p3964 N84-35102

Epitaxial thinning process
[NASA-CASE-NPO-15786-1] 24 p3966 N84-35112

Chemical etching of transformed structures
[AD-D011188] 24 p3966 N84-35114

Impurity cluster states in disordered 2-dimensional systems: A self-consistent Hartree-Fock-Roothaan model
[INPE-3223-PRE/574] 24 p3966 N84-35115

Electronic properties of grain boundaries in GaAs: A study of oriented bicrystals prepared by epitaxial lateral overgrowth
[AD-A144358] 24 p3967 N84-35118

SEMIMETALS
U METALLOIDS

SEMISPAN MODELS
Half-model testing in the NLR high speed wind tunnel (HST)
[NLR-TR-82123-U] 20 p3132 N84-29691

SENDERS
U TRANSMITTERS

SENSE ORGANS
NT COCHLEA
NT CONJUNCTIVA
NT EAR
NT EYE (ANATOMY)
NT FOVEA
NT GRAVIRECEPTORS
NT OCULOMOTOR NERVES
NT PHOTORECEPTORS
NT PUPILS
NT RETINA
NT SEMICIRCULAR CANALS
NT THERMORECEPTORS
NT VESTIBULES

Biochemical studies on the initiation of odor sensing
[AD-A129926] 14 p2184 N84-24065

Investigation of mechanisms underlying odor recognition
[AD-A140969] 18 p2914 N84-28482

SENSES
U SENSORY PERCEPTION

SENSIBILITY
U SENSITIVITY

SENSING
U DETECTION

SENSITIVITY
NT IMPACT RESISTANCE
NT LIGHT ADAPTATION
NT NOTCH SENSITIVITY
NT PHOTOSENSITIVITY
NT PHOTOTROPISM
NT PROPELLANT SENSITIVITY
NT RADIATION TOLERANCE
NT SENSITOMETRY
NT SPECTRAL SENSITIVITY

Separation as asphaltenes using high-resolution supercritical-fluid chromatography
01 p0038 N84-10240

Numerical experiments on the formation and maintenance of cirriform clouds
02 p0252 N84-11649

The transient response of circular foil heat-flux gages
[DE83-017785] 04 p0538 N84-13541

Matrix-isolation photoacoustic spectroscopy
[DE84-001967] 05 p0651 N84-14277

Measurement of velocity and displacement of a transverestraint testing machine
[MRL-TN-473] 05 p0683 N84-14493

Electrofluidic angular rate sensor for ejection seat thrust vector control
[AD-A133233] 06 p0784 N84-15137

Surface analysis by particle beams
06 p0814 N84-15301

Evaluation of type 2 fast packs for electrostatic discharge properties
[AD-A133158] 06 p0853 N84-15557

The causation and variability of the northern winter quasi-stationary planetary waves
06 p0877 N84-15705

Perception of higher derivatives of visual motion
[AD-A133908] 06 p0888 N84-15773

Basic vision events
[AD-A132746] 06 p0890 N84-15782

Synthesis of insensitive controllers in linear quadratic control problems
[REPT-605] 06 p0900 N84-15841

Sensitivity analysis of the influence of the flexibility of solar panels on the attitude dynamics of artificial satellites
[INPE-2763-PRE/337] 07 p0961 N84-16232

Electrostatic discharge (ESD) simulator experiment (testing of some switches/relays for application to an ESD simulation circuit)
[AD-A134580] 07 p0998 N84-16468

On differential sensitivity analysis of structural systems
[REPT-29.4.155/NT] 07 p1017 N84-16596

Efficient model-based sequential designs for sensitivity experiments
[AD-A134573] 07 p1064 N84-16899

The MRL small scale gap test for the assessment of shock sensitivity of high explosives
[MRL-R-896] 08 p1139 N84-17408

Spas color camera
[NASA-CR-171739] 08 p1161 N84-17559

Sensitivity and accuracy analysis of pulse diffusivity measurements on layered samples
[DE84-002104] 08 p1165 N84-17584

A search for Earth-crossing asteroids
[NASA-CR-175374] 08 p1245 N84-18139

Spaceborne Gravity Gradiometers. Part 4: Common problems
09 p1336 N84-18720

Helium leak detector improved sensitivity speed choke
[DE84-005160] 10 p1498 N84-19793

Observing system simulation experiments related to space-borne Lidar wind profiling. Part 2: Sensitivity to atmospheric and instrumental influences
12 p1850 N84-22053

The sensitivity of a general circulation model to Saharan dust heating
12 p1858 N84-22108

Liquid-phase photoionization detector for liquid chrometography
13 p1955 N84-22711

Study of factors determining the radiation sensitivity of quartz crystal oscillators (A0189)
15 p2279 N84-24686

An algorithm for maximum likelihood estimation using an efficient method for approximating sensitivities
[NASA-TP-2311] 16 p2451 N84-25717

An investigation of the effects of scan separation on the sensitivity of the SETI all sky survey for the case of Gaussian noise
16 p2480 N84-25905

Survey of sensitivity analysis methodology
[PB84-166701] 16 p2552 N84-26375

Image quality of passive and active scanners
[MBB-UA-684-83-O] 16 p2564 N84-26449

Direct performance assessment of HUD (Head-Up Display) display systems using contrast sensitivity
[AD-P003162] 17 p2589 N84-26593

Equipment and results of test of cooler for electro-optical transducer
17 p2636 N84-26866

Sensitivity based segmentation and identification in automatic speech recognition
[AD-A142255] 19 p3008 N84-29068

Sensitivity of a lidar inversion algorithm to parameters relating atmospheric backscatter and extinction
[AD-A141565] 19 p3054 N84-29378

Microcomputer-based graphical linear programming package
[AD-A141094] 19 p3075 N84-29508

Application of sensitivity analysis to aerodynamic parameters of a bank to turn missile
[AD-A141940] 20 p3134 N84-29899

Sensitivity of SLR baselines to errors in Earth orientation
20 p3220 N84-30461

Geokinetic effects on motion sensitive instrumentation, systems and facilities
[AD-A142682] 20 p3241 N84-30575

Calibration of CT-4A fatigue test article, March 1983
[AD-A142880] 21 p3328 N84-31115

Solution and sensitivity analysis of RESDYN model 1a using SENSUMT
[AD-A142788] 21 p3515 N84-32267

Estimation of sensitivity threshold in integrating analog-to-digital converters with averaging of readings
22 p3567 N84-32593

Integration of species sensitivity and dosimetry data in the extrapolation of ozone and nitrogen dioxide health data from animals to man
[PB84-195312] 22 p3631 N84-33010

Effect of stress concentration on fatigue resistance of heat-resistant nickel alloys
23 p3707 N84-33503

Study in spurious sensitivity of electronics
[AD-A143947] 23 p3742 N84-33719

Method and apparatus for precise measurement of long-term stability of photodetectors
[AD-D011190] 24 p3897 N84-34674

SENSITIZING
The influence of nitrogen on the sensitization, corrosion, mechanical and microstructural properties of stainless steels
[DE83-017203] 20 p3157 N84-30050

SENSITOMETRY
Effect of laminated structure in materials based on complexes with charge transfer
18 p2826 N84-27943

SENSORIMOTOR PERFORMANCE
NT PSYCHOMOTOR PERFORMANCE

Coherence of appraisal and coping: Parachute jump effectiveness
[FOA-C-55058-H3] 03 p0416 N84-12724

Rate of initial recovery and subsequent radar monitoring performance following a simulated emergency involving startle
[AD-A133602] 06 p0892 N84-15795

Microgravity as an additional tool for research in human physiology with emphasis on sensorimotor systems
[ESA-BR-15] 09 p1362 N84-18900
Part-task training strategies in simulated carrier landing final approach training
[AD-A136670] 10 p1549 N84-20158
Motor performance in irradiated rats as a function of radiation source, dose, and time since exposure
[AD-A141209] 18 p2894 N84-28363
A review and evaluation of research concerning the performance effects of nuclear radiation
[AD-P003295] 18 p2908 N84-28445
Heart rhythm changes in response to sensorimotor load of varying complexity 21 p3452 N84-31908
Psychophysiological aspects of monotonous human activity 21 p3453 N84-31911
Measurement and modification of sensorimotor system function during visual-motor performance
[AD-A142919] 21 p3461 N84-31947

SENSORS
A diagnosis scheme for sensors of a flight control system using analytic redundancy 03 p0316 N84-12067
Evaluation of a total energy-rate sensor on a transport airplane
[NASA-TP-2212] 03 p0332 N84-12164
Technique for producing a coherent sum of the data from P78-1, F2, and F4 satellites
[AD-A131965] 03 p0340 N84-12210
Airborne Intelligent Display (AID) phase 1 software development
[ATC-123] 04 p0484 N84-13181
Relativistic-beam pickup test facility
[DE83-017929] 04 p0600 N84-13962
Fiberoptics for propulsion control system
[NASA-TM-83542] 05 p0625 N84-14111
AFCRL (Air Force Cambridge Research Laboratories) acoustic wind sensor system
[AD-A133739] 05 p0706 N84-14641
A preliminary study of the observed vertical mode structure of the summer circulation over tropical South America
[INPE-2914-PRE/426] 07 p1031 N84-16689
Breadboard stellar tracker system test report
[NASA-CR-170973] 08 p1102 N84-17166
Machine intelligence research applied to industrial automation
[PB84-123348] 10 p1473 N84-19618
Piezometer probe technology for geotechnical investigations in coastal and deep-ocean environments
[AD-P002689] 11 p1859 N84-20824
Testing techniques involved with the development of high shock acceleration sensors
[AD-P002693] 11 p1860 N84-20828
Integrated-optical approaches to matrix multiplication 12 p1906 N84-22416
Characterization of humidity sensors and physical properties of h20
[AD-A139024] 13 p1993 N84-22936
Sensor failure detection for jet engines using analytical redundance
[NASA-TM-83695] 15 p2262 N84-24585
Guidance and Control Techniques for Advanced Space Vehicles
[AGARD-CP-350] 15 p2265 N84-24603
A filtered attitude determination system for spacecraft measurement and control 15 p2267 N84-24612
Procurement of materials required to fabricate and test space-qualified quadrant photo tubes for the SHAD satellite sensor
[AD-A139662] 15 p2280 N84-24696
Pulse and interval distributor with sensor control 17 p2637 N84-26867
Aircrew performance with simulated advanced radar and FLIR (Forward Looking Infrared) sensors in single- and two-place crew stations
[AD-P003269] 18 p2907 N84-28434
Comparison of lightning flash rates from the PBE sensor and streak counting from the DMSP satellite
[DE84-006722] 20 p3248 N84-30602
New developments in sensors
[AD-A144367] 24 p3903 N84-34712

SENSORY DISCRIMINATION
NT BRIGHTNESS DISCRIMINATION
NT VISUAL DISCRIMINATION

SENSORY FEEDBACK
Role of feedback in regulation of ideomotor movements 18 p2898 N84-28396

SENSORY PERCEPTION
NT AUDITORY PERCEPTION
NT CONSCIOUSNESS
NT OLFACTORY PERCEPTION
NT PAIN
NT PROPRIOCEPTION
NT SPACE PERCEPTION
NT VISUAL DISCRIMINATION
NT VISUAL PERCEPTION
Coherence of appraisal and coping: Parachute jump effectiveness
[FOA-C-55058-H3] 03 p0416 N84-12724
Integrated Cuing Requirements (ICR) study: Demonstration data base and users guide
[AD-A131119] 03 p0459 N84-13019
Spatial performance, cognitive representation and cerebral procedures
[AD-A144095] 23 p3811 N84-34163

SENTENCES
NT WORDS (LANGUAGE)

SEO (INDIAN SPACECRAFT)
U INDIAN SPACECRAFT

SEPAC (PAYLOAD)
SEPAC: Spacelab Mission 1 report
[NASA-CR-170980] 06 p1107 N84-17196
A numerical study of artificial electron aurora experiments
[ISAS-611] 20 p3240 N84-30568

SEPARATED FLOW
NT BOUNDARY LAYER SEPARATION
Numerical simulation of flow around a three-dimensional turret
[AD-A126686] 01 p0078 N84-10507
Fluid dynamic mechanisms and interactions within separated flows and their effects on missile aerodynamics
[AD-A130631] 01 p0079 N84-10514
A conformal mapping technique for nonsymmetric potential flows with separation 02 p0173 N84-11138
An experimental investigation of separated three dimensional flow on general aviation twin-engine aircraft 03 p0319 N84-12067
On issues concerning flow separation and vortical flows in three dimensions 03 p0321 N84-12100
The vortex skeleton model for three-dimensional steady flows 03 p0321 N84-12101
Separation and vortical-type flow around a prolate spheroid: Evaluation of relevant parameters 03 p0323 N84-12113
Viscous three-dimensional flow separations from high-wing propeller-turbine nacelle models 03 p0323 N84-12115
Steady and unsteady flow models for airfoils with spoiler 03 p0327 N84-12136
Flow improvements in the circuit of the Langley 4- by 7-meter tunnel
[NASA-TM-85662] 06 p0781 N84-15117
Numerical simulation of separated flows 06 p0832 N84-15413
Fluid-dynamic error in measurement of periodic flow by spherical yawmeter and flow separation on yawmeter head 07 p0983 N84-16389
Numerical study of a separating and reattaching flow by using Reynolds-stress tubulence closure
[NASA-CR-166547] 08 p1097 N84-17133
Vapor-liquid phase separator studies
[NASA-CR-166545] 08 p1156 N84-17527
Analysis of three-dimensional viscous internal flows
[AD-A135762] 09 p1315 N84-18592
Analysis of transonic shock induced separated flow including normal pressure gradients
[AD-A137052] 10 p1422 N84-19298
Flow processes in overexpanded chemical rocket nozzles. Part 1: Flow separation
[NASA-TM-77396] 10 p1450 N84-19470
Flow processes in overexpanded chemical rocket nozzles. Part 2: Side loads due to asymmetric separation
[NASA-TM-77395] 10 p1450 N84-19471
ALESEP: A computer program for the analysis of airfoil leading edge separation bubbles
[NASA-CR-172310] 13 p1926 N84-22537
Separation flow past bodies with fixed separation sites 13 p1970 N84-22784
Practical solutions to simulation difficulties in subscale wind tunnel tests 14 p2097 N84-23581
Control of separated flowfields using forced unsteadiness 17 p2598 N84-26654
Mathematical modeling of transient separation flow around circular cylinder 17 p2644 N84-26916
Mixed boundary-value problems pertaining to profile of supersonic nozzles and channels 17 p2645 N84-26919
Asymptotic theory of separation flow 17 p2646 N84-26924
Separation flow of transonic water stream past circular cone 17 p2647 N84-26929
Separation flow at concave conical wings 17 p2647 N84-26933
The behavior of streamlines near separation point and separation criterion
[AD-A140649] 17 p2668 N84-27010
Behaviour of a vortex sheet separating from a smooth surface
[RAE-TR-77058] 18 p2836 N84-27998
A mixed explicit-implicit antidiffusive method of Navier-Stokes equations for supersonic and hypersonic separated flows
[AD-A141010] 18 p2837 N84-28005
Experimental studies of flow separation of three airfoils at low speeds
[NASA-CR-3530] 19 p2956 N84-28736
La Recherche Aerospatiale, Bimonthly Bulletin, no. 1984-1, 218/ January - February
[ESA-TT-858] 20 p3125 N84-29650
Feedback in separated flows over symmetric airfoils
[NASA-TM-83758] 21 p3324 N84-31091
A direct numerical method for the solution of unsteady Navier-Stokes equations in generalized orthogonal coordinates 21 p3397 N84-31549
Jet spoiler arrangement for wind turbine
[DE84-011303] 21 p3434 N84-31787
Simulation of transonic separated airfoil flow by finite difference viscous-inviscid interaction
[NASA-TM-85960] 22 p3531 N84-32358
Representation of potential flow about axisymmetric bodies with discrete singularities
[AD-A143526] 22 p3594 N84-32700
TRANSEP: A program for high lift separated flow about airfoils
[NASA-CR-3376] 23 p3690 N84-33386
Experimental investigations on airfoils with different geometries in the domain of high angles of attack — flow separation
[REPT-A-5/84-PT-1] 23 p3691 N84-33393
Laser velocimeter measurements of dynamic stall — conducted in the Ames two foot wind tunnel
[NASA-CR-166603] 24 p3852 N84-34429

SEPARATION
Radiation-induced phosphorus segregation in austenitic and ferritic alloys
[DE84-000903] 04 p0504 N84-13302
Analytical chemistry 06 p0796 N84-15189
Surface segration and diffusion investigations by means of AES 06 p0816 N84-15319
Compositional segregation in unidirectionally solidified solid solution crystals 06 p0932 N84-16055
Evaluation of the separability of monodisperse polystyrene latex microspheres in a continuous flow electrophoresis system 06 p0932 N84-16057
Macroscopic and microscopic appearance of separation fractures 14 p2125 N84-23740
Laser technology: Material for separating, joining and surface treating
[RKW-836] 16 p2497 N84-28019
Radial segregation induced by natural convection and melt/solid interface shape in vertical Bridgman growth
[NASA-CR-173627] 17 p2767 N84-27571

SEPARATORS
NT AIR FILTERS
NT ELECTROSTATIC PRECIPITATORS
NT EVAPORATORS
NT FLUID FILTERS
NT SIEVES
Seperators for lithium alloy-iron sulfide fused-salt batteries
[DE83-016203] 02 p0215 N84-11406
Membranes and separators for flowing-electrolyte batteries: A review
[DE83-016246] 02 p0242 N84-11586
Diffusion mass transfer of KOH through Ni/Zn battery membrane separators
[DE83-014551] 03 p0367 N84-12387
Membrane separators for circulating electrolyte storage batteries
[DE84-002106] 07 p0998 N84-16471
Separator development and testing of nickel-hydrogen cells
[NASA-TM-83653] 13 p1955 N84-22712
Evaluation of the performance of filter separators with gasohol
[AD-A139645] 15 p2343 N84-25066
Full scale phosphoric acid fuel cell stack technology development
[NASA-CR-174660] 16 p2518 N84-26165
High temperature oxide electrolytes for the splitting of water--the ROC process
[AD-A140881] 17 p2620 N84-26765
Oxygen recombination in individual pressure vessel nickel-hydrogen batteries
[NASA-CASE-LEW-13822-1] 19 p3011 N84-29084
Anion permselective membrane
[NASA-CR-174725] 19 p3050 N84-29358
Development of hydrocyclones for aluminum/air battery applications
[DE84-011403] 20 p3179 N84-30197
Characterization of glass fiber separator material for lithium batteries 23 p3736 N84-33674
Separator qualification for aerospace nickel-cadmium cells 23 p3737 N84-33682

SEQUENCING
Perfect numbers and aliquot sequences
08 p1224 N84-17996
On the facial structure of scheduling polyhedra
[AD-A136963] 10 p1591 N84-20427
A study of reduced dependence in multi-valued sequential machines
[AD-P002326] 14 p2189 N84-24117
Evaluation of strategies to enhance departure sequencing
[AD-A140710] 17 p2605 N84-26689
A study of elimination conditions for the permutation flow-shop sequencing problem
[CWI-OS-R8403] 17 p2754 N84-27483
New directions in scheduling theory
[CWI-OS-R8401] 17 p2761 N84-27535
Procedures for signal reconstruction from noisy phase
[AD-A142185] 19 p3016 N84-29120
The complexity of sorting on distributed systems
[AD-A142415] 20 p3281 N84-30825

SEQUENTIAL ANALYSIS
A special bounded sequential procedure
[AD-A130403] 01 p0129 N84-10847
Digital image registration by sequential analysis
[INPE-2940-PHE/429] 03 p0376 N84-12446
Coherence of appraisal and coping: Parachute jump effectiveness
[FOA-C-55058-H3] 03 p0416 N84-12724
An iterated logarithm law result for extreme values from Gaussian sequences
[AD-A129559] 03 p0427 N84-12798
Efficient model-based sequential designs for sensitivity experiments
[AD-A134573] 07 p1064 N84-16899
Hierarchical cache accumulators for sequential mode estimation
[AD-A134696] 08 p1212 N84-17906
The Jack Kiefer-Jacob Wolfowitz Memorial Statistical Research Conference
[AD-A136490] 09 p1381 N84-19021
Dynamic sequence assignment
[AD-A136548] 09 p1384 N84-19037
Some aspects in pattern recognition
09 p1412 N84-19238
Numerical methods for Bayes sequential decision problems
[AD-A140418] 16 p2551 N84-26369
Investigation of duration of multichannel sequential signal detection procedure 17 p2634 N84-26850
Two-step sequential reactions for large activation energies-revisited
[AD-A141750] 19 p2968 N84-28934
Isolated-word speech recognition using multi-section vector quantization code books
[AD-A144433] 24 p3895 N84-34685
Numerical validation of Tukey's criterion for clinical trials and sequential testing
[AD-P003853] 24 p3940 N84-34939

SEQUENTIAL CONTROL
Advanced aircraft electrical system control technology demonstrator. Phase 1: Requirements analysis & preliminary design. Phase 2: Detailed design
[AD-A136758] 10 p1428 N84-19337
Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-25670-1] 13 p1985 N84-22684
Nanosequencer digital logic controller
[NASA-CASE-NPO-16116-1] 15 p2385 N84-25306

SERIES (MATHEMATICS)
NT ASYMPTOTIC SERIES
NT COSINE SERIES
NT FOURIER SERIES
NT PADE APPROXIMATION
NT POWER SERIES
NT TAYLOR SERIES
Symmetric set theory, a general theory of isomorphism, abstraction, and representation
[AD-A133630] 05 p0741 N84-14868
An algorithm for detecting a change in stochastic process
[AD-A134104] 06 p0900 N84-15842
An algorithm for additive representation of positive integers
[ISSN-0355-0087] 12 p1892 N84-22325
On a fundamental inequality and the singularities of an analytic function defined by the LC-Dirichletian element
13 p2032 N84-23177
The deficiency of entire functions with Fejer gaps
14 p2210 N84-24267
Developing and measuring an understanding of the concept of the limit of a sequence
[AD-A139360] 14 p2214 N84-24298
On the sequential nature of unification
[AD-A139030] 15 p2366 N84-25386
On the distribution of complexity for de Bruijn sequences
[AD-A140679] 17 p2758 N84-27510
On the range of a regenerative sequence
[AD-A141652] 19 p3066 N84-29566
Efficient sequential designs with binary data
[AD-A142904] 21 p3473 N84-32008
Some observations concerning the zero-curves of the real and imaginary parts of Riemann's zeta function
[MC-ZW-201/83] 21 p3476 N84-32030
Symbolic dynamics and nonlinear semiflows
[AD-A143487] 22 p3648 N84-33117

SERIES EXPANSION
Computation of Bessel functions of complex argument and large order
[DE83-014463] 02 p0282 N84-11851
Study of an asymptotic method for helicopter rotor blade aerodynamic loads 03 p0327 N84-12135
Application of the implicit Fourier-expansion method to the calculation of three-dimension equilibria by the iterative method
[DE83-017621] 04 p0590 N84-13902
Identification of nonlinear systems
[RR-232] 05 p0739 N84-14850
Establishing observation equations by means of series expansion into eigenfunctions
[TUM-MITT-163] 05 p0739 N84-14851
Asymptotic theory of an unseparated supersonic turbulent boundary layer at a compression corner
06 p0780 N84-15112
Nonlinear acoustics instabilities in combustion chambers 06 p0802 N84-15230
Computation of steady internal flows using integral representation methods with finite series expansions
06 p0833 N84-15418
The generalized Euler-Mascheroni constants
[NASA-TP-2264] 06 p0906 N84-15880
The generalized Euler-Mascheroni constants
06 p0927 N84-16024
A Berry-Esseen bound for symmetric statistics
[MC-SW-95/83] 07 p1067 N84-16929
Applications of Non-Self-Adjoint operator theory to the Singularity Expansion Method (SEM) and to the Eigenmode Expansion Method (EEM) in acoustic and electromagnetic problems
[AD-A135177] 08 p1219 N84-17955
A method for solving Boltzmann's equation in semiconductors by expansion in Legendre polynomials
[EUT-83-E-134] 10 p1590 N84-20420
On 4th-order homogeneous functionals in the class of bounded univalent functions 15 p2396 N84-25374
Suppression of finite-amplitude effects in sloshing modes in cylindrical cavities
[AD-A140652] 17 p2758 N84-27509
On the Edgeworth expansion for the logarithm of the likelihood ratio, part 2
[CWI-MS-R8401-PT-2] 19 p3094 N84-29652
Horizontal cylindrical vessels supported by saddles subjected to vertical and lateral force fields
22 p3606 N84-32858
Mixed models and recugion techniques for large-rotation, nonlinear analysis of shells of revolution with application to tires
[NASA-TP-2343] 24 p3912 N84-34773

SEROTONIN
Mechanisms of thermoregulation of rats exposed to hypergravic fields 22 p3628 N84-32989

SERUMS
Free amino acids of blood before and after short-term spaceflights 02 p0280 N84-11702
Stress biochemistry: Non-invasive measurement techniques in military subjects
[AD-A141598] 19 p3065 N84-29447

SERVICE LIFE
Design, construction and long life endurance testing of cathode assemblies for use in microwave high-power transmitting tubes
[NASA-CR-168112] 01 p0089 N84-10451
Maintenance-free, deep-discharge, lead-acid battery for photovoltaic applications: Phase two
[DE83-013561] 02 p0214 N84-11401
Development of a circulating zinc-bromine battery, phase 2
[DE84-001886] 04 p0527 N84-13463
Solid-oxide fuel cells
[DE83-017925] 04 p0527 N84-13469
Analysis of lead-acid battery accelerated testing data
[DE83-017403] 04 p0528 N84-13473
Cell-substrate bonding system design and development
[DE84-000963] 04 p0558 N84-13678
Extending the lifetime of operational systems through corrosion tracking and prediction
[AD-A133931] 05 p0625 N84-14112
On the use of replacements to extend system life
[AD-A132878] 05 p0690 N84-14532
Vernier Rocket Motor Mk 84 Mod 0 quality evaluation
[AD-A133301] 06 p0796 N84-15185
Battery lifetime prediction by pattern recognition application to lead-acid battery life-cycling test data
[AD-A133281] 06 p0829 N84-15397
Wind load and life-cycle testing of second generation heliostats
[DE84-003333] 07 p1026 N84-16648
Ceramic life prediction methodology - hot spin disc life program
[AD-A134783] 08 p1138 N84-17400
Preventive maintenance intervals for components of the F-15/F100 aircraft engine
[AD-A135637] 09 p1249 N84-18156
The effect of periodic overloads on flight-by-flight fatigue crack growth rates
[AD-A136407] 09 p1255 N84-18192
Thermal properties of coating materials and their effect on the efficiency of coated cutting tools
09 p1292 N84-18440
Fundamental approach to design and prediction of performance of forming tools 09 p1294 N84-18453
Design and manufacturing technology of radioelectronic equipment, chapter 5
[AD-A136509] 09 p1307 N84-18545
Effects of assuming independent component failure times, if they are actually dependent, in a series system
[AD-A136567] 09 p1327 N84-18667
Techniques for predictive maintenance in industrial installation and failure diagnostic
10 p1503 N84-19824
Transition of corner cracks at holes into through-the-thickness cracks
[AD-A136922] 10 p1517 N84-19933
Flexible radiator thermal vacuum test report
[NASA-CR-171764] 11 p1623 N84-20622
Stirling engine applications study
[PB84-148055] 12 p1823 N84-21888
Module degradation catalyzed by metal-encapsulation reactions 12 p1839 N84-21989
Chemical bonding technology for terrestrial photovoltaic modules
[NASA-CR-173460] 12 p1842 N84-22008
Tip cap for a rotor blade
[NASA-CASE-LEW-13654-1] 13 p1931 N84-22580
Mortality and spareparts: A conceptual analysis
[AD-P002826] 13 p2062 N84-23371
Achievements and plans of the Solar Thermal Advanced Research Center
[DE84-005480] 14 p2172 N84-24010
Service-life induced failure of bird impact resistant windshields
[AD-P003195] 17 p2591 N84-26608
Specialty coatings for increased service life of acrylic aircraft transparencies, part 2
[AD-P003206] 17 p2593 N84-26619
Evaluation of the effect of non-metallic inclusions in steel electrodes on the frequency of flashbacks in mercury-arc rectifiers
[BLL-ERA-TRANS-3002/23] 17 p2662 N84-26982
Investigation of test methods, material properties and processes for solar cell encapsulants
[NASA-CR-173748] 18 p2870 N84-28219
Method of minimizing the aging rate of an oscillator
[AD-D011049] 19 p3018 N84-29135
High-efficiency Conventional Cells Workshop
19 p3049 N84-29345
Optimization of wind turbine design for SWECS
[DE84-009759] 19 p3051 N84-29363
USAF durability design handbook: Guidelines for the analysis and design of durable aircraft structures
[AD-A142424] 20 p3128 N84-29866
Experimental study of the naphtaline heat pipe
20 p3169 N84-30125
Testing, data analysis and engineering services on lead-acid load leveling batteries
[DE84-011523] 20 p3180 N84-30198
Effects of variations in coldworking repair procedures on flaw growth and structural life
[AD-A141966] 20 p3202 N84-30336
Measurement techniques for high-power semiconductor materials and devices
[DE84-010425] 20 p3309 N84-31016
Heat pipe development status
[DE84-012580] 21 p3402 N84-31583
Ocean thermal energy conversion: Materials issues
[DE84-012094] 21 p3434 N84-31790
Weibull analysis handbook
[AD-A143100] 21 p3475 N84-32023
Materials for Advanced Turbine Engines (MATE): Project 3: Design, fabrication and evaluation of an oxide dispersion strengthened sheet alloy combustor liner
[NASA-CR-174691] 22 p3554 N84-32504
Investigation and rehabilitation to extend service life of DSS-13 antenna concrete foundation
22 p3574 N84-32637

Evaluation of bidirectionally conducting thyratrons for pulsed excimer lasers
[DE84-013890] 22 p3602 N84-32918
Prediction of battery life and behavior from analysis of voltage data 23 p3737 N84-33685
Prediction model for the life of nickel-cadmium batteries in geosynchronous orbit satellites 23 p3737 N84-33686
Ni-Cd battery life expectancy in geosynchronous orbit 23 p3738 N84-33687
Long life nickel electrodes for a nickel-hydrogen cell: Cycle life tests 23 p3739 N84-33696
Statistical analyses for nondestructive testing
[AD-A143668] 23 p3758 N84-33821

SERVICE MODULES
Spacecraft servicing demonstration plan
[NASA-CR-171132] 21 p3351 N84-31258

SERVICES
NT MEDICAL SERVICES
NT METEOROLOGICAL SERVICES

SERVOCONTROL
Hydraulic generation of auxiliary power for the Mirage 2000 aircraft 03 p0335 N84-12176
Control system for an induction motor with energy recovery
[NASA-CASE-MFS-25477-1] 05 p0673 N84-14424
A servo controlled rapid response anti-g valve
[AD-A134042] 05 p0715 N84-14687
The MIRAGE 2000: Fly by wire control and safety 06 p0777 N84-15093
Maser cavity servo-tuning system
[NASA-CASE-NPO-15890-1] 06 p0849 N84-15536
Use of robots in Estonian auto, machine tool industries viewed 14 p2155 N84-23916
Adaptive correction of control machines
[ISD-301] 16 p2484 N84-25929
Advancement of remote technology: Past perspectives and future plans
[DE84-008517] 18 p2849 N84-28092
Dual arm master controller concept: Consolidated fuel reprocessing program
[NASA-CR-173843] 20 p3196 N84-30296
Design of a high-performance slide and drive system for a small precision machining research lathe
[DE84-011059] 22 p3606 N84-32845

SERVOMECHANISMS
Concept of a safety system for a servohydraulic test facility 03 p0339 N84-12202
Simulation of electro-servo-hydraulic actuator for high quality testing — of spacecraft 03 p0340 N84-12206
Robotics: An introduction to today's robot and future trends
[AD-A132070] 03 p0423 N84-12768
Simulator study of pilot-aircraft-display system response obtained with a three-dimensional-box pictorial display
[NASA-TP-2122] 04 p0484 N84-13182
A servo controlled rapid response anti-g valve
[AD-A134042] 05 p0715 N84-14687
Disturbance minimization techniques for linear, time-invariant dynamical systems
[AD-A138915] 13 p2033 N84-23185
A proportional piezoelectric electropneumatic servovalve design
[AD-A140224] 16 p2499 N84-26031
An analysis of traction drive torsional stiffness
[NASA-TM-83712] 17 p2675 N84-27043
Advancement of remote technology: Past perspectives and future plans
[DE84-008517] 18 p2849 N84-28092
Dual arm master controller concept: Consolidated fuel reprocessing program
[NASA-CR-173843] 20 p3196 N84-30296
Advanced teleoperation in nuclear applications: Consolidated fuel reprocessing program
[DE84-011631] 20 p3197 N84-30303
Advancement of remote systems technology: Past perspectives and future plans
[DE84-011460] 20 p3198 N84-30309
Advanced remotely maintainable force-reflecting servomanipulator concept
[DE84-011634] 21 p3414 N84-31646
Economic application of assembly robots: Elements of sensor applications to programmable feeders
[PB84-193200] 21 p3415 N84-31656
Design of a high-performance slide and drive system for a small precision machining research lathe
[DE84-011059] 22 p3606 N84-32845
The problem of determining the optimum policy for maintaining systems with spare machines and a number of variable servers
[INPE-3132-PRE/523] 23 p3833 N84-34312

SERVOSTABILITY CONTROL
U SERVOCONTROL

SES
U SURFACE EFFECT SHIPS

SET THEORY
NT EQUIVALENCE
NT THRESHOLD LOGIC
Disjunctive programming and a hierarchy of relaxations for discrete optimization problems
[AD-A132004] 03 p0425 N84-12784
The Gauss-Tchebyshev inequality for unimodal distributions
[AD-A133760] 05 p0739 N84-14657
Symmetric set theory, a general theory of isomorphism, abstraction, and representation
[AD-A133630] 05 p0741 N84-14668
The travelling salesman problem in graphs with 3-edge cutsets
[AD-A133504] 06 p0902 N84-15852
An estimation problem relating to subset selection for normal populations
[AD-A133387] 06 p0904 N84-15870
A vector concept based on set theory
[INPE-2977-PRE/439] 07 p1068 N84-16936
On acyclic database decompositions
[AD-A135105] 08 p1209 N84-17887
Isotonic procedures for selecting populations better than a standard: Two-parameter exponential distributions
[AD-A135445] 08 p1223 N84-17985
The program complexity of searching a table
[AD-A135299] 08 p1240 N84-18104
Analysis of adaptive differential PCM (Pulse-Code Modulator) of a stationary Gauss-Markov input
[AD-A136518] 09 p1299 N84-18492
Interval methods for fixed-point problems
[AD-A136323] 09 p1373 N84-18965
A set function approach to cluster analysis 09 p1412 N84-19237
Stable convex sets of matrices
[AD-A136659] 10 p1574 N84-20317
A unified approach to modeling and combining of evidence through random set theory
[AD-P002880] 13 p1978 N84-22841
Thin sets in nonlinear potential theory 13 p2032 N84-23178
Connectivity of circulant digraphs
[MC-BW-166/83] 13 p2038 N84-23220
In the labyrinth of many valued logics
[AD-P002331] 14 p2190 N84-24122
Roots of N-valued switching functions
[AD-P002350] 14 p2192 N84-24141
A fuzzy relational inference language for expert systems
[AD-P002380] 14 p2196 N84-24171
Decision algorithms in fuzzy situations
[AD-P002968] 14 p2201 N84-24205
Density and dimension — the Vapnik-Cervonenkis class of subsets 14 p2211 N84-24275
On the optimality of some subset selection procedures
[AD-A140160] 16 p2549 N84-26362
Bayes-p* subset selection procedures for the best population
[AD-A140179] 16 p2551 N84-26367
Subset selection procedures: A review and an assessment
[AD-A140266] 16 p2551 N84-26368
On K-theory of conical fibrations
[CTH-MATH-1983-25] 17 p2761 N84-27540
Locally 4-by-4 grid graphs
[CWI-PM-R8401] 19 p3095 N84-29659
Boolean computation of optimum hitting sets
[DE84-012920] 20 p3283 N84-30842
Tutorial: Fuzzy sets and applications
[INPE-3168-PRE/538] 21 p3471 N84-31998
On point processes — probability theory
[MATH-CENTRE-TRACTS-165] 21 p3475 N84-32025
Solving low density knapsacks
[DE84-006964] 22 p3641 N84-33085
Quantitative treatment of fuzzy relations in the process of allocating resources to R and D projects
[INPE-2761-PRE/336] 22 p3668 N84-33251
Efficient editing of solid models by exploiting structural and spatial locality
[TM-46] 23 p3815 N84-34190
Boolean operations in solid modelling: Boundary evaluation and merging algorithms
[TM-26] 23 p3818 N84-34207
On the semilattice of weak orders of a set
[AD-A144631] 24 p3952 N84-35023

SETI
U PROJECT SETI

SETTLING
Optical means of measuring particle-sea interactions in the Caribbean Sea and Gulf of Mexico
[AD-A131290] 02 p0257 N84-11685
Proceedings of the 1982 Forum on Subsidence Due to Fluid Withdrawals
[DE84-001028] 05 p0704 N84-14618
Evaluation of Stokes settling equation for variable density aggregates
[AD-A140878] 17 p2721 N84-27322

SEWAGE
NT SOLID WASTES
Operational utilization of remote sensing in a study of the impact of disposal of urban waste at sea 03 p0400 N84-12611
Flow technical problems with transitions between partial and complete filling and with flow measurement in channel sections. — sewage flow
[TUM-SFB-81] 06 p1160 N84-17552
Production of hydrogen from renewable resources
[DE84-000082] 14 p2132 N84-23780

SEWAGE TREATMENT
Method for treating wastewater using microorganisms and vascular aquatic plants
[NASA-CASE-NSTL-10] 03 p0406 N84-12654
Investigation to diminish the heavy metal concentrations in sewage sludges with organic complexing reagents
[BMFT-FB-T-83-158] 07 p1027 N84-16660

SEWERS
Value of flow calibration for decision making in infiltration/inflow studies
[PB83-259739] 05 p0682 N84-14483

SEWING
Some considerations of the efficiency of sewn lap joints in a nylon webbing
[RAE-TR-83009] 03 p0355 N84-12310
Preliminary results of the effects of sewing, packing and parachute deployment on material strength
[DE84-006464] 13 p1927 N84-22541

SEX
Cognitive components underlying the digit symbol test
[PB83-250464] 04 p0574 N84-13779

SEX FACTOR
Changes in attitudes toward women at the Air Force Academy
[AD-P003261] 18 p2906 N84-28428
Risk-taking performance of military personnel: Sex differences and practice effects
[AD-P003262] 18 p2906 N84-28429
First mixed crew in space 21 p3454 N84-31917

SEYFERT GALAXIES
Soft X-ray spectral observations of quasars and high X-ray luminosity Seyfert galaxies
[NASA-TM-85118] 04 p0619 N84-14082
Extragalactic emission-line objects and the Michigan-Tololo survey 04 p0622 N84-14101
Spectrophotometry of 2 complete samples of flat radio spectrum quasars
[NASA-CR-175343] 07 p1088 N84-17077
The physical nature of the continuum in active galaxies 08 p1243 N84-18128
Ultraviolet and X-ray observations of active galactic nuclei: Constraints on models of the broad emission line region 15 p2423 N84-25560
Seyfert galaxy narrow-line regions: A spectroscopic investigation 17 p2774 N84-27612
Accretion disks, processing jets and the asymmetric emission lines of QSOs
[NASA-CR-173632] 17 p2774 N84-27613
Photon losses in cosmic ray acceleration in active galactic nuclei
[DE84-012583] 20 p3321 N84-31081
The broad-band X-ray spectrum of a QSO sample
[NASA-TM-85071] 22 p3681 N84-33333
The broad absorption line region in NGC 4151 24 p3971 N84-35146
The Seyfert 1 galaxy NGC 4593 (3). Very rapid variations of its far UV spectrum and their implications 24 p3971 N84-35147
The 1978 - 1984 fading of the Seyfert 1 galaxy F-9 24 p3972 N84-35149
MCG-2-58-22 = Mkn 926. A high luminosity Seyfert galaxy with two distinct broad line components 24 p3972 N84-35150
Multifrequency observations of three active galaxies 24 p3972 N84-35151
Multifrequency observations of active galactic nuclei 24 p3972 N84-35152

SFERICS
U ATMOSPHERICS

SGEMP
U SYSTEM GENERATED ELECTROMAGNETIC PULSES

SH-3 HELICOPTER
Calculation of the aerodynamic flow field in the vicinity of a Sea King helicopter
[ARL-AERO-REPT-158] 08 p1096 N84-17128

SHADES
The Giotto thermal control shutter 10 p1444 N84-19435
Motorized thermal control shade — for spacecraft 10 p1444 N84-19436

SHADOWGRAPH PHOTOGRAPHY
NT SCHLIEREN PHOTOGRAPHY
Experimental investigation of shock-cell noise reduction for single-stream nozzles in simulated flight, comprehensive data report. Volume 3: Shadowgraph photos and facility description
[NASA-CR-166234-VOL-3] 22 p3652 N84-33150
SHADOWGRAPHS
U SHADOWGRAPH PHOTOGRAPHY
SHADOWS
Self-shadowing of orbiting trusses
[NASA-CR-173215] 07 p1012 N84-16565
Thermodynamic model for a central receiver of a solar plant with partial shading of the heliostat field
[ESA-TT-807] 13 p2010 N84-23034
Theoretical aspects of photoclinometric terrain profiling on the Galilean satellites 13 p2074 N84-23441
SHAFTS (MACHINE ELEMENTS)
NT TURBOSHAFTS
Self excited oscillations in journal bearings
[AD-A130200] 01 p0090 N84-10585
Cryogenic Fluid Management Experiment (CFME) trunnion verification testing
[NASA-CR-168310] 07 p0985 N84-16381
Nonlinear coupling responses to variable frequency excitations 10 p1515 N84-19920
Laboratory measurements of subsynchronous resonance
[RL-8845] 11 p1667 N84-20877
Factors that affect the fatigue strength of power transmission shafting
[NASA-TM-83606] 16 p2498 N84-26029
Design of power-transmitting shafts
[NASA-RP-1123] 17 p2675 N84-27041
Analysis of lateral and torsional vibration characteristics of beams and shafts with end located rotational masses
[NASA-TM-84593] 17 p2679 N84-27065
Current status of an organic Rankine cycle engine development program 18 p2872 N84-28230
Shaft-hub deformation analysis by means of holography
[SCHR-KONSTR.TECH-5] 19 p3028 N84-29204
Shaft coupling device
[AD-D011080] 21 p3413 N84-31644
Shaft positioning device
[AD-D011087] 22 p3606 N84-32836
Dynamics of angular movements of a solid supporting a rotating rotor with consideration of energy dissipation
[AD-A143349] 22 p3611 N84-32881
SHAKERS
Multishaker modal testing
[NASA-CR-170952] 06 p0847 N84-15521
Lewis Research Center spin rig and its use in vibration analysis of rotating systems
[NASA-TP-2304] 15 p2260 N84-24578
Modal parameter estimation via shaker versus speaker excitation
[DE84-012897] 21 p3345 N84-31223
SHALE OIL
Refining of military jet fuels from shale oil. Part 4. Process computer modeling studies
[AD-A128891] 01 p0052 N84-10334
Synthetic fuels from US oil shales: A technical and economic verification of the HYTORT PROCESS
[DE83-005440] 01 p0053 N84-10345
Statistical crack mechanics
[DE83-014124] 01 p0098 N84-10837
Long term evaluation of the effects of shale oil produced JP-4 on aircraft construction materials
[AD-A131665] 03 p0331 N84-12161
Combustion of EDS mid-distillate and refined shale-oil residual fuel in a gas turbine with large single-combustion chamber
[DE83-017700] 03 p0351 N84-12281
Stress-wave experiments on selected crustal rocks and minerals
[DE84-001613] 04 p0563 N84-13714
Toxic Hazards Research Unit report, 1983
[AD-A136170] 09 p1362 N84-18896
Microbial deterioration of hydrocarbon fuels from oil shale, coal and petroleum. III: Inhibition of fungi by fuels from coal
[AD-A137177] 10 p1469 N84-19596
Alternate fuels combustion research
[AD-A138575] 13 p1965 N84-22769
Oil shale extraction using super-critical extraction
[NASA-CASE-NPO-15656-1] 13 p2006 N84-23012
USAF shale oil program status
14 p2107 N84-23633
Utilization of alternative fuels in diesel engines
[NASA-CR-174669] 17 p2628 N84-26813
Geochemistry of oil shale leachates and interaction with geologic substrates, Piceance Creek Basin, Colorado
21 p3440 N84-31825
Solar-heated oil shale retort
[NASA-CASE-NPO-16392-1] 22 p3616 N84-32912
Development of accelerated fuel-engine qualification procedures
[AD-A143845] 23 p3693 N84-33406
Decision recommendation board (DRB) report. Transition of shale JP-4 to the operational validation phase
[AD-A144504] 24 p3890 N84-34633
SHALES
The toxicity of petroleum and shale JP5
[AD-A142670] 20 p3260 N84-30690
Solar-heated oil shale retort
[NASA-CASE-NPO-16392-1] 22 p3616 N84-32912
Depositional history and sedimentology of upper cretaceous mancos shale and lower mesaverde group, Northwestern Colorado: Migrating shelfbar and wave-dominated shoreline deposits
23 p3796 N84-34068
SHALLOW WATER
Radar bathymetry : A review
03 p0400 N84-12612
Short-range acoustic intensity vectors of the Pekeris shallow water model
[AMTE(N)-TM-83085] 03 p0430 N84-12819
The nature and analysis of random waves in shallow water. Part 1: Text and figures
[CSIR-RR-388/1-PT-1] 04 p0532 N84-13496
The nature and analysis of random waves in shallow water. Part 2: Appendices
[CSIR-RR-388/2-PT-2] 04 p0532 N84-13497
A Numerov-Galerkin technique applied to a finite element shallow-water equations model with enforced conservation of integral invariants and selective lumping
[CSIR-TWISK-276] 04 p0587 N84-13878
Optimum depth of propagation in shallow water
[AD-A132182] 04 p0595 N84-13927
Methodology for the calculation of a shallow-water wave climate
[AD-A134715] 08 p1195 N84-17792
A Lagrangian method for a two layer shallow water model 12 p1853 N84-22068
Modeling of SAR signatures of shallow water ocean topography 17 p2718 N84-27302
Acoustic attenuation in ocean sediments found in shallow water regions
[AD-A140869] 17 p2763 N84-27550
Influence of horizontally-random bottom structure on acoustic intensity in a shallow ocean
[AD-A141363] 19 p3099 N84-29688
Wind-generated noise in shallow water
[AD-A141981] 20 p3290 N84-30690
High-frequency acoustic backscatter from the sea surface
[AD-A143536] 22 p3652 N84-33152
SHANKS
U JOINTS (JUNCTIONS)
SHANNON INFORMATION THEORY
U INFORMATION THEORY
SHAPE CONTROL
The 55-meter-structure flight experiment
08 p1112 N84-17233
Shape optimal design and free boundary value problems 08 p1154 N84-17516
Microprocessor based implementation of attitude and shape control of large space structures
14 p2245 N84-24482
A decentralized active control system for a large flexible structure in space 15 p2268 N84-24622
On geometrical accuracy in precise metal forming
15 p2308 N84-24845
Selection of actuator locations for static shape control of large space structures by heuristic integer programing
[NASA-TM-85769] 17 p2616 N84-26741
SHAPE MEMORY ALLOYS
NT NITINOL ALLOYS
Degradation of shape memory effect
[DE83-016586] 03 p0353 N84-12295
Characterization of the structure and substructure of thermally transformation cycled Cu-Zn-Al shape memory alloys
[AD-A132341] 04 p0499 N84-13270
Interrelationship between temperature intervals of inverse martensite transformation and shape restoration in titanium nickelide-based alloys
12 p1786 N84-21648
Martensite transformation and shape memory in Ti0.5Ni0.5-xPd sub x system alloys
12 p1786 N84-21649
The effect of cold work on martensitic transformations in CU-ZN-AL shape memory alloys
[AD-A139975] 15 p2297 N84-24789
Design, manufacture and tests of a locking and unlocking mechanism, using memory elements (vem); layout, manufacture and testing of a tracking mechanism, using memory elements for locking/unlocking and driving and being suitable for qualification (NFMM) — space flight applications
[BMFT-FB-W-84-012] 19 p3033 N84-29236
Generation of reactive stresses in TiNi alloy
24 p3875 N84-34556
SHAPED CHARGES
Characterizing shaped charge by stand-off behavior
[MBB-UA-693-83-O] 16 p2564 N84-26448
SHAPES
NT CONVEXITY
NT ELLIPTICITY
NT FLATNESS
NT LINE SHAPE
NT T SHAPE
Optimum forebody shaping for axisymmetric submersibles with turbulent boundary layers and BLO (Boundary Layer Control) afterbodies
[AD-A130950] 01 p0079 N84-10515
An extremum principle for shape from contour
[AD-A131321] 02 p0272 N84-11760
Topically classified bibliography on shapes of falling drops, drops in electric fields and related topics
[AD-A131134] 03 p0371 N84-12417
Inverse born approximation: Exact determination of shape of convex voids
[DE83-017685] 03 p0385 N84-12512
Shape from shading: An assessment
03 p0394 N84-12574
An investigation of geometric radar shapes for stereotyping
[AD-A131120] 03 p0459 N84-13020
Radial evolution of ion distribution functions
03 p0470 N84-13094
Interactive surface visualization using raster graphics
[AD-A132548] 04 p0579 N84-13819
Some aerodynamic characteristics of a projectile shape with a nonaxisymmetric boattail at Mach numbers of 0.91 and 3.02
[AD-A133755] 05 p0627 N84-14125
Directed graphs and traveling waves
[AD-A132661] 05 p0738 N84-14845
Visual routines
[AD-A133634] 06 p0891 N84-15792
A representation for shape based on peaks and ridges in the difference of low-pass transform
[AD-A133299] 06 p0901 N84-15849
Shape optimal design and free boundary value problems 08 p1154 N84-17516
Wind tunnel tests on a nonaxisymmetric projectile shape at Mach numbers 2.5 to 6.0
[AD-A135784] 09 p1253 N84-18177
Extended Gaussian images
[AD-A135747] 09 p1389 N84-19073
Space reactor shielding: An assessment of the technology
[DE84-003319] 10 p1577 N84-20335
Process for producing parts with deep pocketed precision cavities using P/M shape technology
[DE84-006566] 12 p1799 N84-21733
Computer-Aided Geometry Modeling
[NASA-CP-2272] 12 p1869 N84-22179
An operator calculus for surface and volume modeling
12 p1869 N84-22180
A geometric modeler based on a dual-geometry representation polyhedra and rational b-splines
12 p1869 N84-22181
The 3SPACE digitizer: A new input device for solid geometry modeling 12 p1872 N84-22200
Electromagnetic radiation and scattering from a system of conducting bodies interconnected by wires
13 p1984 N84-22682
Attitude and shape control of large space structures
13 p2019 N84-23091
Light transmitting window assembly
[NASA-CASE-MSC-18417-1] 13 p2042 N84-23251
Experiments examining the shapes of isolated bars in comparison with those occurring in braided rivers
13 p2084 N84-23503
On geometrical accuracy in precise metal forming
15 p2308 N84-24845
SNIAS's experience and work in the geometric modeling area
[SNIAS-832-111-107] 15 p2391 N84-25349
Base pressure measurements on a projectile shape at Mach numbers from 0.91 to 1.20
[AD-A141341] 18 p2789 N84-27699
Evaluation of UH-1H hover performance degradation caused by rotor icing
[AD-A141252] 18 p2793 N84-27727
The occultation of AG+29 deg 396 by 98 Minerva
[NASA-CR-173827] 20 p3319 N84-31068

The theory of Fourier descriptors and how they may be used to characterize shape 24 p3915 N84-34787
SHARP LEADING EDGES
An experimental investigation of the vortex flow over delta and double-delta wings at low speed 03 p0322 N84-12106
SHATTERING
U FRAGMENTATION
SHEAR
Piston-displacement equations of state for sodium, potassium, and rubidium metals to 20 kbar from 300 K to 4 K
[DE83-018079] 03 p0347 N84-12252
Effect of pressure on the mechanical properties of polymers, part 1
[DE84-006311] 13 p1965 N84-22765
SHEAR CREEP
Determination of the viscoelastic shear modulus using forced torsional vibrations
[PB84-119700] 08 p1173 N84-17638
Free vibration analysis of uniform and nonuniform cantilever beams by including the effects of transverse shear deformation and rotary inertia 15 p2402 N84-25417
SHEAR DISTURBANCES
U S WAVES
SHEAR FATIGUE
U SHEAR STRESS
SHEAR FLOW
Experiments on mixing and combustion with low heat release in a turbulent shear flow 04 p0531 N84-13489
The disturbance flow field produced by an evolving vortex
[NASA-TP-2245] 04 p0532 N84-13500
Generation of sound in turbulent shear flows 06 p0768 N84-15031
The effect of flow oscillations on cavity drag, and a technique for their control 06 p0780 N84-15109
Bifurcations in nonlinear problems of hydrodynamic instability of plane parallel shear flows 06 p0831 N84-15411
Turbulent shear flows — conferences
[VKI-LS-1983-03] 06 p0837 N84-15448
Introduction to turbulent shear flows 06 p0837 N84-15449
Eddy detection within turbulent shear flows 06 p0837 N84-15453
The bursting phenomenon in bounded shear flows 06 p0837 N84-15454
Thermal tides in the atmosphere of Venus 06 p0876 N84-15702
Antimisting fuel breakup and flammability
[NASA-CR-174506] 07 p0981 N84-16354
Analysis of some acoustics-jet flow interaction problems
[NASA-CR-175340] 07 p1069 N84-16944
Numerical study of a separating and reattaching flow by using Reynolds-stress tubulence closure
[NASA-CR-166547] 08 p1097 N84-17133
Understanding transition to turbulence in shear layers
[AD-A134796] 08 p1159 N84-17548
Baroclinic inertial instability in the non-static equilibrium atmosphere
[BLL-TRANS-1566-(9022.552)] 08 p1189 N84-17751
Numerical study of heat transfer in turbulent shear flow
[DE84-005106] 11 p1655 N84-20802
A fundamental study of relation between the velocity fields far upstream of, at and far downstream of a a rotor disk in a shear flow — wind turbine flow
[FFA-136] 17 p2667 N84-27006
Shelf waves in presence of currents and stability of boundary currents 17 p2699 N84-27193
Hamiltonian representation of equations of hydrodynamics and its use in describing wave movements in currents with shear 18 p2865 N84-28190
Prediction of the temperature characteristics in intermittent, free turbulent shear layers
[CFD/84/1] 20 p3188 N84-30256
Inertial and shear flow 20 p3288 N84-30874
Theoretical and experimental investigations of asymmetric turbulent supersonic free shear layers 21 p3323 N84-31088
Special Course on Stability and Transition of Laminar Flow
[AGARD-R-709] 23 p3748 N84-33757
Secondary instability of shear flows 23 p3748 N84-33763
Wake profile measurements of fixed and oscillating flaps
[NASA-CR-166602] 24 p3852 N84-34428
SHEAR LAYERS
A study of plastic flow localization and other instability phenomena in rate-sensitive ductile solids 02 p0230 N84-11510
Chemically reacting turbulent shear layers
[AD-A131553] 02 p0295 N84-11931
The effect of flow oscillations on cavity drag, and a technique for their control 06 p0780 N84-15109
Three-dimensional turbulent boundary layers 06 p0838 N84-15459
Three-dimensional turbulent boundary layers in turbomachines 06 p0838 N84-15460
The effects of acoustic excitation on the mixing of two parallel laminar streams of fluid
[AD-A126788] 06 p0843 N84-15502
A lifting surface computer code with jet-in-crossflow interference effects. Volume 1: Theoretical description
[NASA-CR-166524] 07 p0947 N84-16147
Understanding transition to turbulence in shear layers
[AD-A134796] 08 p1159 N84-17548
Experimental study of flow reattachment in a single-sided sudden expansion
[NASA-CR-3765] 09 p1312 N84-18571
Numerical solution of three-dimensional unsteady transonic flow over wings including inviscid/viscous interactions
[NASA-CR-166561] 11 p1600 N84-20478
Basic experimental study of the coupling between flow instabilities and incident sound
[NASA-CR-3789] 11 p1728 N84-21275
Velocity shear stabilization of the current convective instability
[AD-A137963] 12 p1909 N84-22439
The design and performance of a combustor with a multiple jet primary zone 15 p2291 N84-24749
On the structure of the narrow cold-frontal rainband 16 p2532 N84-26254
Numerical analysis of the burst in the turbulent boundary layer, based on the three-dimensional ortex model 20 p3168 N84-30116
Theoretical and experimental investigations of asymmetric turbulent supersonic free shear layers 21 p3323 N84-31088
Acoustic excitation: A promising new means of controlling shear layers
[NASA-TM-83772] 21 p3325 N84-31096
Flow structures and their evolution in turbulent shear layer 21 p3486 N84-32091
Control of jet flowfield dynamics
[AD-A143631] 23 p3746 N84-33750
SHEAR PROPERTIES
NT SHEAR STRENGTH
Tensile, compressive, and shear properties of a 64-kg/m3 polyurethane foam at low temperatures
[PB83-204818] 01 p0051 N84-10330
Cell-substrate bonding system design and development
[DE84-000963] 04 p0558 N84-13678
Approximate linear stability analysis of a model of adiabatic shear-band formation
[DE84-001918] 05 p0656 N84-14316
Computer-Aided Structural Engineering (CASE) project. User's guide: Computer program to Calculate Shear, Moment and Thrust (CSMT) from stress results of a two-dimensional finite element analysis
[AD-A134089] 05 p0726 N84-14768
Nonlinear viscoelastic characterization of structural adhesives
[NASA-CR-172279] 06 p0809 N84-15268
Results from a two-layer and a reduced gravity model of the Alboran Sea; and vertical shear from tops
[AD-A133753] 06 p0884 N84-15752
Use of shear lag for composite microstress analysis - rectangular array
[AD-A134185] 07 p0967 N84-16267
Use of shear lag for composite microstress analysis - linear array
[AD-A134174] 07 p0967 N84-16269
Remarks on the stability of viscometric flow
[AD-A134571] 07 p1002 N84-16500
In-plane shear properties of a fabric-CFRP/aluminum-honeycomb sandwich construction
[NAL-TR-773] 09 p1275 N84-18327
Influence of surface tension and surface shear on final coat thickness in jet-stripped continuous coating of sheet materials
[AD-A136402] 09 p1314 N84-18586
Time dependent, compressible simulations of shear flows: Tests of outflow boundary conditions
[AD-A136410] 09 p1314 N84-18587
Standardization and selection of a method for evaluating shear resistance of lubricating oils with polymer additives
[NASA-TM-77383] 10 p1485 N84-19569
On the face-shear vibrations of contoured crystal plates 10 p1511 N84-19691
Dynamic behavior of composite layered beams by the finite element method 10 p1511 N84-19692
Pullout of a rigid insert adhesively bonded to an elastic half plane
[AD-A137859] 11 p1668 N84-20885
Research on shear stability of polymer-containing hydraulic oils
[REPT-11] 12 p1800 N84-21737
Measurement of fast transient and steady state responses of viscoelastic fluids with a sliding cylinder rheometer executing coaxial displacements
[AD-A137996] 12 p1816 N84-21835
Analytical results for postbuckling behavior of plates in compression and shear
[NASA-TM-85766] 14 p2157 N84-23922
Upper ocean shear during JASIN: A deterministic and statistical analysis
[AD-A139077] 14 p2183 N84-24082
Development of methods of evaluation extensional properties of polymer solutions from measurements of shear
[AD-A140451] 16 p2472 N84-25845
Initiation and propagation of shear bands in antiplane shear deformation
[AD-A140741] 17 p2624 N84-26794
The dynamic steady-state propagation of an anti-plane shear crack in a general linearly viscoelastic layer
[AD-A140980] 18 p2853 N84-28115
An inverse laminar boundary layer problem with assigned wall shear: The mechui function revisited
[AD-A142328] 19 p3025 N84-29182
Synthesis and toughness properties of resins and composites 20 p3148 N84-29973
Method and apparatus for measuring stress
[DE84-011035] 20 p3203 N84-30347
Graduate engineering research participation in aeronautics
[NASA-CR-173849] 21 p3507 N84-32220
Natural weathering of selected organic matrix composites
[AD-A144091] 23 p3711 N84-33527
Method and apparatus for measuring shear modulus and viscosity of a monomolecular film
[DE84-014502] 23 p3761 N84-33841
Crustal shear velocity modelling in Nevada: A study of broadband multi-mode surface waves 24 p3918 N84-34802
SHEAR STRAIN
Determination of the viscoelastic shear modulus using forced torsional vibrations
[PB84-119700] 08 p1173 N84-17638
Earth strain measurements with the transportable laser ranging system: Field techniques and planning
[NASA-CR-175150] 08 p1186 N84-17725
Analysis of shear strain localization in thermal visco-plastic materials
[AD-A138186] 12 p1796 N84-21727
Free edge strain concentrations in real composite laminates: Experimental-theoretical correlation
[NASA-CR-173818] 19 p2966 N84-28919
SHEAR STRENGTH
Transverse shear effects in bimodular composite laminates
[AD-A130261] 01 p0031 N84-10195
A torsion testing machine for measurement of shear strength of foam
[AD-A133027] 05 p0693 N84-14552
Processing study of a polyimidesulfone adhesive
[NASA-TM-85742] 07 p0978 N84-16339
Study of seismic response at Stations 6 and 7, El Centro Strong Motion Array, Imperial Valley, California
[PB84-119924] 09 p1346 N84-18795
Pattern formation by shock processes
[DE83-015249] 10 p1469 N84-19592
Shearing stability of lubricants
[NASA-TM-77435] 11 p1636 N84-20697
Revision of design values for 7075-T7351 and 7075-T7651 aluminum plate
[AD-A139092] 13 p1961 N84-22740
Transverse shear effects in bimodular composite laminates 15 p2309 N84-24854
Ground exposure of composite materials for helicopters
[NASA-TM-86311] 24 p3879 N84-34577
SHEAR STRESS
NT TORSIONAL STRESS
Transverse shear effects in bimodular composite laminates
[AD-A130261] 01 p0031 N84-10195
Computation of three-dimensional unsteady flow in rigid and deformable curved tubes 03 p0375 N84-12440
A pressure-shear experiment for studying the dynamic plastic responses of metals at shear strain rates of 10 to the 5th power s(-1) 03 p0387 N84-12519

Investigation of the wall pressure, wall shear stress and velocity fields associated with a turbulent spot in a laminar boundary layer 04 p0531 N84-13488

The propagation and arrest of an edge crack in an elastic half-space under conditions of anti-plane shear: Analytical and numerical results 04 p0547 N84-13604

Some notes on 3-dimensional turbulent boundary layer data and turbulence modeling [NLR-MP-82007-U] 06 p0845 N84-15513

Buckling loads of stiffened panels subjected to combined longitudinal compression and shear: Results obtained with PASCO, EAL, and STAGS computer programs [NASA-TP-2215] 07 p1015 N84-16585

Photoelastic analysis of direct shear tests for granular materials [BLL-M-28752-(5828.4)] 09 p1328 N84-18671

The propagation and arrest of an edge crack in an elastic half-space under conditions of anti-plane shear: Analytical and numerical results [AD-A137275] 10 p1517 N84-19930

Turbulent flow over small amplitude solid waves [AD-A137876] 11 p1653 N84-20789

Dynamic instability of suddenly heated, thick, composite shells 15 p2309 N84-24853

Transverse shear effects in bimodular composite laminates 15 p2309 N84-24854

Helical shear of an elastic circular tube with non-convex stored energy 15 p2313 N84-24862

Surface topography-connections between lubrication and failure initiation 15 p2316 N84-24898

Lubricant rheology in concentrated contacts 15 p2341 N84-25050

Multidirectional force and moment transducer 17 p2629 N84-26816

Nature of formation of stopper defect in hoisting ropes [BLL-M-35544-(5828.4)] 17 p2674 N84-27036

Postbuckling behavior of graphite-epoxy panels 20 p3146 N84-29976

Cyclic torsion testing [NASA-TM-83756] 21 p3419 N84-31687

Research Reports of the Faculty of Engineering, no. 31 [DEC/1983/31] 21 p3476 N84-32034

Considerations on deformable ability and ultimate strength of aseismic walls. Part 2: About the derivation of a formula on ultimate shearing stress of walls and its applied verification for some experimental results 21 p3477 N84-32042

Simulation of transonic separated airfoil flow by finite difference viscous-inviscid interaction [NASA-TM-85980] 22 p3531 N84-32358

Measurement of skin friction in unsteady boundary layers using a flush-mounted hot-film gage [PB84-197995] 22 p3596 N84-32773

Hybrid stress reduced-Mindlin elements for thin multilayer plates with application to edge contact problems 22 p3608 N84-32857

Analysis of dynamic mixed-mode crack tip stress patterns [AD-A143329] 22 p3611 N84-32860

Laser velocimeter measurements of dynamic stall — conducted in the Ames two foot wind tunnel [NASA-CR-166603] 24 p3852 N84-34429

Fracture mechanism of carbon and boron reinforced plastics with shear between layers 24 p3872 N84-34539

On numerical methods in non-Newtonian flows [DE84-701276] 24 p3899 N84-34691

SHEAR WAVES
U S WAVES

SHEARING STRESS
U SHEAR STRESS

SHEATHS
NT PLASMA SHEATHS

Transient overvoltages on cable sheaths [BLL-OA-TRANS-2620-(6196.3)] 01 p0069 N84-10448

Approach to single-molecule detection by laser-induced fluorescence [DE84-001338] 04 p0542 N84-13572

Evaluation of adhesive materials for bonded sheath cable designs 11 p1721 N84-21226

SHEEP
Biological chemistry 06 p0796 N84-15190

SHEET METAL
U METAL SHEETS

SHEETS
Orientation and morphology effects in rapid silicon sheet solidification 18 p2937 N84-26627

SHELL STABILITY
Calculation methods for fiber reinforced components 10 p1452 N84-19484

Dynamic instability of suddenly heated, thick, composite shells 15 p2309 N84-24853

A new 48 D.O.F. quadrilateral shell element with variable-order polynomial and rational B-spline geometries with rigid body modes 17 p2678 N84-27058

The post-buckling equilibrium and the dynamic collapse of complex hyperstatic pin-jointed lattices and reticulated shells 21 p3417 N84-31667

SHELL THEORY
Vibration analysis of turbomachinery blades by shell theory 01 p0009 N84-10053

Theory of viscoplastic shells for dynamic response [AD-A131272] 01 p0096 N84-10624

Residual stresses in cross-ply composite tubes [NASA-CR-173540] 16 p2460 N84-25788

The principle of virtual work and associated variational principles [AD-B071515] 16 p2549 N84-26361

New variational formulations of hybrid stress elements 21 p3420 N84-31690

Free bulging of round diaphragm exposed to uniform pressure in state of creep [BLL-M-35680-(5828.4)] 22 p3608 N84-32861

SHELLFISHES
A research program in determination of heavy metals in sediments and benthic species in relation to nuclear power plant operation [NASA-CR-173537] 15 p2366 N84-25195

The alpha-crustacyanin, the lobster carapace astaxanthin-protein 23 p3804 N84-34122

SHELLS (STRUCTURAL FORMS)
NT CIRCULAR SHELLS
NT CYLINDRICAL SHELLS
NT ELASTIC SHELLS
NT FLUID FILLED SHELLS
NT LIQUID FILLED SHELLS
NT METAL SHELLS
NT ORTHOTROPIC SHELLS
NT PERFORATED SHELLS
NT RADOMES
NT REINFORCED SHELLS
NT SPHERICAL CAPS
NT SPHERICAL SHELLS
NT THIN WALLED SHELLS
NT TOROIDAL SHELLS

Navier-Stokes computational study of the influence of shell geometry on the Magnus effect at supersonic speeds [AD-A130630] 01 p0079 N84-10516

Submerged shock response of a linearly elastic shell of revolution containing internal structure. User's manual for the ELSHOK code [AD-A131282] 03 p0389 N84-12534

Geometrically nonlinear analysis of layered anisotropic plates and shells 05 p0695 N84-14562

An integrated system for shells with discontinuities: Geometric modelling and finite element analysis 06 p0856 N84-15576

Effect of suction on the wake structure of a three-dimensional turret [AD-A135897] 09 p1252 N84-18174

Exact and finite-element analysis of laminated shells [AD-A135849] 09 p1332 N84-18695

Efficient finite element methods for transient nonlinear analysis of shells [AD-A136044] 09 p1333 N84-18701

Toroidal magnetic field system for 2-MA reversed-field pinch experiment [DE84-004322] 10 p1586 N84-20399

Dynamic instability of suddenly heated, thick, composite shells 15 p2309 N84-24853

A modified modal method for nonlinear dynamic analysis of structures 16 p2501 N84-26052

Revisions to the PETROS 4 shell response code [AD-A140268] 16 p2502 N84-26059

An interpretive study of plate and shell buckling [AD-A140487] 16 p2502 N84-26062

Vibrations of and radiation from shell of revolution under hoop load 17 p2649 N84-26940

A triangular anistropic thin shell element based on discrete Kirchoff theory 17 p2678 N84-27060

The post-buckling equilibrium and the dynamic collapse of complex hyperstatic pin-jointed lattices and reticulated shells 21 p3417 N84-31667

Nonlinear Structural Analysis [NASA-CP-2297] 21 p3419 N84-31688

New variational formulations of hybrid stress elements 21 p3420 N84-31690

Nonlinear finite element analysis of shells with large aspect ratio 21 p3420 N84-31692

Deformability and bearing strength of shells made on release mandrel 23 p3707 N84-33498

Experimental study of stress-deformed state of three-layer shells made with anisotropic high-module composite materials 24 p3868 N84-34514

Mixed models and recugion techniques for large-rotation, nonlinear analysis of shells of revolution with application to tires [NASA-TP-2343] 24 p3912 N84-34773

SHELTERS
Blast loadings of emergency exits for air-raid shelters type E [FOA-C-20530-D4(D6)] 15 p2350 N84-25103

SHIELDING
NT ELECTROMAGNETIC SHIELDING
NT ELECTROSTATIC SHIELDING
NT HEAT SHIELDING
NT MAGNETIC SHIELDING
NT RADIATION SHIELDING
NT REENTRY SHIELDING
NT REUSABLE HEAT SHIELDING
NT SOLAR RADIATION SHIELDING
NT SPACECRAFT SHIELDING

Efficiency of wood as a passive shielding for particles and photons of 0.5 to 4.6 MeV between 940 and 377 mb [INPE-2864-PRE/399] 02 p0288 N84-11891

Fluid shielding of high-velocity jet noise [NASA-TP-2259] 06 p0907 N84-15894

Analytical study of the twin-jet shielding [NASA-CR-175357] 07 p1069 N84-16943

Development of copper-coated aluminum-shielded wire 11 p1719 N84-21214

Aluminum foil shield effectiveness for electronic cables 11 p1719 N84-21215

A rodent and lightning protective sheath for fiber optic cables 11 p1724 N84-21246

Evaluation of foam-skin cables for aerial applications 11 p1725 N84-21252

Space electron-induced discharge coupling into satellite electronics [AD-P002114] 16 p2523 N84-26200

Investigation of the characteristics of a ventilated transparent shield [BLL-M-35562-(5828.4)] 17 p2665 N84-26996

Optimation of cooled shields in insulations [NASA-CR-166583] 18 p2836 N84-27999

Protective plasma envelope [DE84-013316] 21 p3502 N84-32194

SHIELDS (GEOLOGY)
U BEDROCK

SHIFT REGISTERS
Fast multichannel analog storage system [DE83-012711] 01 p0119 N84-10773

Polynomial driven time base and PN generator 04 p0519 N84-13409

Development of integrated digital circuits with Josephson junctions [BMFT-FB-T-84-044] 19 p3113 N84-29777

Digital multi-tapped delay line with automatic time-domain programming [AD-D011136] 22 p3581 N84-32676

VLSI (Very Large Scale Integrated) self-testing using exhaustive bit patterns [AD-A144299] 24 p3898 N84-34681

SHIP HULLS
An assessment of ablative organotin antifouling (AF) coatings [AD-A134019] 05 p0658 N84-14326

Development of a corrosion control, nonemissive paint for the protection of bilge spaces [AD-A136270] 09 p1287 N84-18402

Characterizations of preheated and non-preheated HY-80 steel weldments by transmission electron microscopy [AD-A136966] 10 p1460 N84-19537

Mechanization of assembly and welding operations in manufacture of ship hull structures 12 p1787 N84-21654

Wave-less free-surface pressure distributions [AD-A141630] 19 p3024 N84-29176

Triangular extrapolation [AD-A144860] 24 p3952 N84-35025

SHIP TERMINALS
USSR report: Transportation [JPRS-UTR-84-027] 24 p3851 N84-34422

SHIPS
NT AIRCRAFT CARRIERS
NT CARGO SHIPS
NT SUBMARINES
NT SURFACE EFFECT SHIPS
NT TANKER SHIPS

Wind and wave summaries for selected U.S. Coast Guard operating areas [AD-A130647] 01 p0108 N84-10702

Simulation and evaluation of the Sh-2F helicopter in a shipboard environment using the interchangeable cab system [NASA-TM-84387] 02 p0180 N84-11176

Interaction of antennas with masts under special consideration of the sensitivity and nonlinear effects in ship borne receiving systems 03 p0364 N84-12371
Rubber-modified epoxy and glass laminates for application to naval ship structures
[AD-A133305] 06 p0798 N84-15204
A review of propagation and scattering factors in remote-sensing and ship-tracking by HF radar 06 p0868 N84-15655
Local area networks: Impact on shipboard applications 06 p0907 N84-15868
The oceangoing space survey ship, the Wang Yuan
[AD-A135514] 06 p1108 N84-17204
Achievement of electromagnetic compatibility in weapon systems — ships 06 p1142 N84-17430
Some parameters characterising the icing of ships from spray
[BLL-MO-TRANS-1570-(9022.552)] 06 p1190 N84-17753
Reduction of propeller noise by a reflecting rubber layer — ship propellers
[FOA-C-20506-E4] 06 p1228 N84-18025
Simulation of Thematic Mapper data for remote bathymetry
[AD-A136377] 09 p1337 N84-18728
Cable fire studies using the Ohio State University release rate apparatus 11 p1726 N84-21261
Investigation of the usefulness of the smoke generator Draeger model MK V for fire services exercises onboard ships
[PML-1983-6] 12 p1804 N84-21759
Comparisons of sea-surface temperature obtained from ship and satellite data
[AD-A138257] 13 p2018 N84-23087
Tropospheric propagation assessment 15 p2326 N84-24985
Marginal ice zone experiment (1983). Part 1: Ice characterization measurements. Part 2. Helicopter-borne and ship-based radar backscatter measurement of sea ice in the marginal ice zone
[AD-A139894] 15 p2373 N84-25238
USSR report: Transportation
[JPRS-UTR-84-016] 17 p2598 N84-26652
Evaluation of 95 gpm inductors for aqueous film forming foam
[AD-A141242] 18 p2818 N84-27894
Handbook on shock reducing devices — on ships
[IWECO-5072311-82-1] 18 p2854 N84-28120
Differential NAVSTAR GPS (Global Positioning System) design concept for Harbor/Harbor entrance marine navigation
[AD-A141665] 19 p2961 N84-28769
Monitoring of ship routes via satellite
[ESA-TT-842] 19 p2980 N84-28889
US Navy hindcast spectral ocean wave model climatic atlas: North Atlantic Ocean
[AD-A141810] 20 p3250 N84-30627
Experimental evaluation of a high frequency radio data terminal in the ship-shore mode
[CRC-1375] 21 p3382 N84-31458
Marine Seismic System (MSS) deployment. Phase 5: An investigation of techniques and deployment scenarios for installation of triaxial seismometer in a borehole in the deep ocean
[AD-A142873] 21 p3444 N84-31850
Aircraft, ships, spacecraft, nuclear plants and quality
[DE84-013262] 22 p3655 N84-33166
USSR report: Transportation
[JPRS-UTR-84-026] 23 p3687 N84-33368
The calculation of the radar vertical coverage diagram
[AD-A143647] 23 p3731 N84-33645
Lidar observations of the plumes of incineration ships 23 p3780 N84-33967
USSR report: Transportation
[JPRS-UTR-84-027] 24 p3851 N84-34422

SHIPYARDS
USSR report: Transportation
[JPRS-UTR-84-016] 17 p2598 N84-26652

SHIVA LASER SYSTEM
Creation of ultra-high-pressure shocks by the collision of laser-accelerated disks: Experiment and theory
[DE83-017366] 03 p0382 N84-12486

SHOCK
Rate of initial recovery and subsequent radar monitoring performance following a simulated emergency involving startle
[AD-A133602] 06 p0892 N84-15795

SHOCK (PHYSIOLOGY)
A mechanical model of the human body and its application 17 p2744 N84-27421
Modeling of lethal electric shock 22 p3629 N84-33000

SHOCK ABSORBERS
Damped pneumatic spring as shock isolator: Generalized analysis and design procedure 10 p1515 N84-19916
Evaluation of 'Sorbothane' cushioning material
[AD-A139079] 13 p1984 N84-22783
State space method for optimal design of shock absorbers with floating boundaries 13 p1998 N84-22986
Handbook on shock reducing devices — on ships
[IWECO-5072311-82-1] 18 p2854 N84-28120
Design and development of an automatically controlled variable-load energy absorber
[AD-A142683] 20 p3126 N84-29868
Shock wave absorber having a deformable liner
[DE84-011306] 20 p3186 N84-30243
Shock wave absorber having apertured plate
[DE84-011271] 20 p3203 N84-30345
Shock absorbing missile launch pad
[AD-D011173] 23 p3898 N84-33436

SHOCK DIFFUSERS
U DIFFUSERS

SHOCK FRONTS
Initial decay of flow properties of planar, cylindrical and spherical blast waves
[UTIAS-TN-244] 03 p0371 N84-12416
Optical diagnostics for condensed-phase shock-compressed molecular systems
[DE84-001172] 06 p0845 N84-15510
Shock front pumped stokes and anti-stokes reflectivity contributions
[AD-A139134] 14 p2145 N84-23857

SHOCK HEATING
The time development of a blast wave with shock heated electrons
[NASA-CR-175364] 08 p1156 N84-17529

SHOCK LAYERS
Nonexistence of a shock layer in gas dynamics with a nonconvex equation of state
[AD-A129169] 01 p0078 N84-10506
Large scale galactic shocks and motions of the cloud medium 04 p0620 N84-14089
Detection of bump-on-tail reduced electron velocity distributions at the electron foreshock boundary
[NASA-TM-86067] 12 p1922 N84-22518
Three-dimensional nonequilibrium viscous shock-layer flow over the Space Shuttle orbiter 13 p1925 N84-22530
Three-dimensional nonequilibrium viscous shock-layer flows over complex reentry vehicles 13 p1927 N84-22543
Dynamic changes of phase in a van der Waals fluid
[AD-A141708] 19 p3024 N84-29178

SHOCK LOADS
NT BLAST LOADS
Monte Carlo simulation of shock-induced lattice damage
[DE83-015189] 01 p0154 N84-11016
Raman spectroscopies in shock-compressed materials
[DE83-014170] 02 p0190 N84-11236
Specific surface measurements of shock-modified powders
[DE83-016230] 02 p0196 N84-11275
Mach disc formation in cylindrical recovery systems
[DE83-015912] 02 p0220 N84-11442
Simulation of shock-induced energy flux in molecular solids
[DE84-001157] 04 p0613 N84-14047
Energy release and transformation of shock-modified zirconia upon annealing to 1550 deg C
[DE83-017801] 05 p0755 N84-14954
X-ray diffraction line-broadening studies on shock-loaded TiO-2 and Al2O-3
[DE83-016161] 05 p0755 N84-14955
Report and recommendations for improving constitutive relations used in computer codes — shock mechanics in solids
[AD-A133239] 06 p0897 N84-15823
The MRL small scale gap test for the assessment of shock sensitivity of high explosives
[MRL-R-898] 08 p1139 N84-17408
Heron, volume 28, no. 1, 1983. Dynamic elasto-plastic model for reinforced concrete members
[PB84-109057] 08 p1172 N84-17635
Metallic microwave conductivity in shock-loaded rutile
[DE84-002174] 08 p1235 N84-18075
X-ray line broadening studies on aluminum nitride, titanium carbide and titanium diboride modified by high pressure shock loading
[DE84-003257] 10 p1463 N84-19553
The Shock and Vibration Digest, volume 15, no. 6
[AD-A131730] 10 p1505 N84-19841
The Shock and Vibration Digest, volume 15, no. 7
[AD-A132576] 10 p1505 N84-19845
The Shock and Vibration Digest, volume 16, no. 3
[AD-A139707] 13 p2000 N84-22976
Pyrotechnic shock: A literature survey of the Linear Shaped Charge (LSC)
[NASA-TM-82583] 18 p2852 N84-28109

SHOCK RESISTANCE
NT IMPACT RESISTANCE
Simulation of cerebrocranial trauma for evaluation and development of gear to protect pilots against impacts 02 p0259 N84-11695
Strength and thermal shock resistance of SIC-BN composites
[AD-A136691] 10 p1452 N84-19485
Improved impact tolerant material
[NASA-CASE-LAR-12887-1] 11 p1627 N84-20649
Standard environmental test methods
[DE84-006471] 11 p1666 N84-20868
Method of fabricating an abradable gas path seal
[NASA-CASE-LEW-13269-2] 13 p1997 N84-22957

SHOCK SPECTRA
Least favorable response of inelastic structures
[AD-A136289] 09 p1330 N84-18687
The Shock and Vibration Digest, volume 15, no. 10
[AD-A136698] 10 p1506 N84-19855
Shock and seismic response spectra in design problems 10 p1506 N84-19856
The Shock and Vibration Bulletin. Part 1: Welcome, keynote address, invited papers, pyrotechnic shock, and shock testing and analysis
[AD-A134452] 10 p1507 N84-19866
The evolution of spectral techniques in Navy shock design 10 p1508 N84-19871
Strain histories associated with stage separation systems using linear shaped charge 10 p1508 N84-19874
Shock spectral analysis by personal computer, using the IFT algorithm 10 p1509 N84-19875
Effect of measurement system phase response on shock spectrum computation 10 p1509 N84-19877
Efficient algorithms for calculating shock spectra on general purpose computers 10 p1509 N84-19878
Evaluation and control of conservatism in drop table shock tests 10 p1509 N84-19879
Effect of measurement system phase response on shock spectrum computation
[AD-P002688] 11 p1659 N84-20823
Shock isolated accelerometer
[AD-P002692] 11 p1660 N84-20827
Shock response spectra variational analysis for pyrotechnic qualification testing of flight hardware
[NASA-TP-2315] 14 p2115 N84-23676
A method to compute the contact force of a body impacting a ring-stiffened cylindrical shell using a lumped parameter finite-difference model
[AD-A139723] 15 p2350 N84-25109

SHOCK TESTS
Least favorable response of inelastic structures
[AD-A136289] 09 p1330 N84-18687
Pyrotechnic shock test and test simulation 10 p1508 N84-19873
Effect of measurement system phase response on shock spectrum computation
[AD-P002688] 11 p1659 N84-20823
Systems approach to measuring short-duration acceleration transients
[AD-P002690] 11 p1659 N84-20825
Shock response spectra variational analysis for pyrotechnic qualification testing of flight hardware
[NASA-TP-2315] 14 p2115 N84-23676
Handbook on shock reducing devices — on ships
[IWECO-5072311-82-1] 18 p2854 N84-28120
NASTRAN analysis comparison to shock tube tests used to simulate nuclear overpressures
[AD-A142290] 20 p3202 N84-30337
Nonstationary oblique-shock-wave reflections in air
[UTIAS-270] 21 p3399 N84-31582

SHOCK TUBES
NT SHOCK TUNNELS
Experimental and computational modeling of rarefaction wave eliminators suitable for the BRL 2.44 m shock tube
[AD-A131894] 03 p0338 N84-12194
Shock tube study of the ignition and combustion of aluminum
[AD-A134035] 05 p0661 N84-14345
Design and initial operational characteristics of a shock tube-Raman scattering calibration system
[AD-A133251] 06 p0847 N84-15525
Measurements of CARS intensity in hydrogen molecule behind shock waves 07 p0984 N84-16375
Investigation of the thermal initiation of detonation in nitromethane
[AD-A136211] 09 p1316 N84-18598
Shock tube study of the fuel structure effects on the chemical kinetic mechanisms responsible for soot formation
[NASA-CR-174661] 12 p1790 N84-21677
A shock tube study of chlorine azide decomposition 13 p1958 N84-22728

Investigation of the effects of pressure gradient, temperature and wall temperature ratio on the stagnation point heat transfer for circular cylinders and gas turbine vanes
[NASA-CR-174667] 14 p2109 N84-23649
NASTRAN analysis comparison to shock tube tests used to simulate nuclear overpressures
[AD-A142290] 20 p3202 N84-30337
Analytical and numerical study of the flow in a shock tube with an area change at the diaphragm section
[UTIAS-TN-255] 21 p3399 N84-31583

SHOCK TUNNELS
A new operation method for a large-scale shock tunnel
[NAL-TR-765] 04 p0487 N84-13200
Gasdynamic study of model with combustion in shock tunnel 21 p3481 N84-32061

SHOCK WAVE CONTROL
Design of transonic compressor cascades for minimal shock losses and comparison with test results
07 p0955 N84-16192

SHOCK WAVE GENERATORS
NT SHOCK TUBES
NT SHOCK TUNNELS

SHOCK WAVE INTERACTION
Interaction between a shock-wave and a vortex flow
03 p0321 N84-12104
Shock induced molecular excitation in solids
[AD-A132236] 04 p0596 N84-13635
Simulation of shock-induced energy flux in molecular solids
[DE84-001157] 04 p0613 N84-14047
Strong acoustic wave action — on the atmosphere
05 p0636 N84-14186
A coupling method for the inverse mode calculation of transonic internal flows with a shock wave
07 p0955 N84-16194
An experimental method for analyzing shock-boundary layer interactions in cascades 07 p0955 N84-16195
Interaction of a turbulent boundary layer with a normal shock wave followed by an adverse pressure gradient
[ARL-MECH-ENG-REPT-161] 07 p1000 N84-16487
Shock structure near a wall in pure inert gas and in binary inert gas mixtures 07 p1005 N84-16517
Interaction of weak shock waves and discrete gas inhomogeneities 08 p1155 N84-17517
Analysis of transonic shock induced seperated flow including normal pressure gradients
[AD-A137052] 10 p1422 N84-19298
Three dimensional/boundary layer interaction: Laminar and turbulent behaviour
[AD-A137060] 10 p1483 N84-19765
Electronic spectra of condensed phase under shock conditions
[AD-A137531] 11 p1652 N84-20785
Description of optical measurement techniques for the interaction of shock waves with objects
[PML-1983-10] 12 p1904 N84-22401
Mixing of swirling flows and behavior of wet flows
[AD-A136697] 13 p1989 N84-22915
Coupling of airborne sound in a sandy soil — containing seismic sensors
[LEOK-TR-1983-09] 13 p2040 N84-23238
Experimental investigation of two-dimensional shock boundary layer interactions 16 p2485 N84-25936
Some theoretical results on Mach reflection of moderately strong shock waves
[MPIS-14/1983] 17 p2668 N84-27016
Investigation of the mechanism of transonic shock wave/boundary layer interactions using a Navier-Stokes analysis
[AD-A141551] 19 p2959 N84-28752
Numerical solution for the interaction of shock wave with laminar boundary layer in two-dimensional flow on a flat plate
[NASA-TM-77408] 19 p3022 N84-29160
Nonstationary oblique-shock-wave reflections in air
[UTIAS-270] 21 p3399 N84-31582
Theory of vorticity generation by shock wave and flame interactions
[AD-A144432] 24 p3880 N84-34582

SHOCK WAVE PROFILES
Viscous shock-layer predictions of three-dimensional nonequilibrium flows past the space shuttle at high angle of attack 01 p0024 N84-10151
Velocity profiles of interplanetary shocks
03 p0474 N84-13122

SHOCK WAVE PROPAGATION
Three-dimensional computer modeling of a shock-recovery experiment
[DE83-015915] 02 p0220 N84-11441
Formation of standing shocks in stellar winds and related astrophysical flows 03 p0469 N84-13088
Plasma properties of driver gas following interplanetary shocks observed by ISEE-3 03 p0474 N84-13123
Corotating shocks in inner heliosphere
03 p0475 N84-13124
Self-sustained oscillations of a shock wave interacting with a boundary layer on a supercritical airfoil
[NASA-CR-175336] 07 p0945 N84-16131
Shock wave properties of anorthosite and gabbro
[NASA-CR-173309] 08 p1155 N84-17521
Rapporteur paper for sessions MG1, MG3 and MG4: Modulation theory, interplanetary propagation and interplanetary acceleration
[NASA-TM-86047] 08 p1247 N84-18150
Reduction of the shock wave intensity by modifying the transonic blade trailing edge
[NASA-TM-77029] 09 p1251 N84-18169
Reactive shock phenomena in condensed materials: Formulation of the problem and method of solution
[AD-A136514] 09 p1385 N84-19048
Shock waves in 3-dimensional elastic solids
[AD-A138018] 12 p1826 N84-21906
Discrete charge diagnostics on Pre-DIRECT COURSE
[AD-A139073] 13 p1990 N84-22919
The coupling of tracked and interior waves in a front tracking scheme
[AD-P002944] 14 p2197 N84-24184
A second order upwind flux method for hyperbolic conservation laws
[AD-A139769] 15 p2332 N84-25008
Shock wave modelling and the HULL computer code formation of Mach stems
[MRL-R-907] 16 p2486 N84-25942
Modification to shock fitting program
[NASA-TM-86097] 16 p2548 N84-26353
Energy release and fluid dynamics in multiphase systems
[AD-A142402] 20 p3184 N84-30228
Numerical simulations of the structure and propagation of self-sustained detonations
[AD-A142486] 20 p3184 N84-30230
Numerical solutions of acoustic wave propagation problems using Euler computations
[NASA-CR-172434] 22 p3645 N84-33112
A numerical simulation study of solar wind disturbances responsible for geomagnetic and auroral storms
[AD-A144178] 24 p3993 N84-35266

SHOCK WAVES
NT DETONATION WAVES
NT NORMAL SHOCK WAVES
NT OBLIQUE SHOCK WAVES
NT SONIC BOOMS
A study of transonic normal shock wave-turbulent boundary layer interactions in axisymmetric internal flow
01 p0002 N84-10015
A comparison of measured and theoretical predictions for STS ascent and entry sonic booms
01 p0027 N84-10168
Melting of metals above 100 GPa
[DE83-015261] 01 p0046 N84-10299
A field of pressures of shock waves during a powerful underwater discharge
[AD-A130084] 01 p0078 N84-10510
Growth and decay of one-dimensional shock waves in chemically reacting multiphase mixtures
[DE83-011134] 01 p0080 N84-10519
Optical properties of explosive-driven waves in noble gases
[DE83-015236] 01 p0082 N84-10536
Fast, non-linear optical-scattering spectroscopy in shock-compressed organic liquids
[DE83-007548] 01 p0148 N84-10972
Generation of ultrafast optical fiducials for shock-wave experiments
[DE83-013765] 01 p0148 N84-10974
Mach reflection flow fields associated with strong shocks
[AD-A131384] 02 p0175 N84-11148
Rarefaction velocities in shocked tantalum and the high-pressure melting point
[DE83-015916] 02 p0195 N84-11268
Prediction of microstructural modification in dynamically consolidated metal powders
[DE83-015690] 02 p0196 N84-11278
Single-pulse coherent Raman spectroscopy in shock-compressed benzene
[DE83-014140] 02 p0219 N84-11433
Shocked fluids at high densities and temperatures
[DE83-015901] 02 p0219 N84-11437
The velocity of sound behind strong shock waves in 2024 Al
[DE83-015927] 02 p0220 N84-11446
Carbon piezoresistive stress gauge
[DE83-016505] 02 p0224 N84-11470
Dynamic heterogeneous response of aluminum and copper to stress waves
[DE83-015229] 02 p0232 N84-11522
Numerical modeling of dynamic material response
[DE83-016233] 02 p0232 N84-11524
An analysis of shock coalescence including three-dimensional effects with application to sonic boom prediction 02 p0288 N84-11890
Single-mode fiber-optic sensor for high currents
[DE83-014163] 02 p0295 N84-11933
Experimental and computational modeling of rarefaction wave eliminators suitable for the BRL 2.44 m shock tube
[AD-A131894] 03 p0338 N84-12194
Novel optical pin using microballoons
[DE83-015222] 03 p0367 N84-12391
The shock wave structure in one-component gas and in binary gas mixture
[ISSN-0206-5658] 03 p0370 N84-12407
Initial decay of flow properties of planar, cylindrical and spherical blast waves
[UTIAS-TN-244] 03 p0371 N84-12416
Scale lengths in quasi-parallel shocks
[NASA-TM-85109] 03 p0407 N84-12663
Theoretical and experimental studies of shock-compressed benzene and polybutene
[DE83-015884] 03 p0430 N84-12816
Multiple transonic solutions and a new class of shock transitions in solar and stellar winds
03 p0468 N84-13083
Solar cycle variations of the solar wind
03 p0469 N84-13089
Multiple spacecraft observations of interplanetary shocks: Characteristics of the upstream ULF turbulence
03 p0470 N84-13097
Electron heating at interplanetary shocks
03 p0470 N84-13098
Aluminum as a global high-pressure equation-of-state standard
[DE84-000153] 04 p0501 N84-13287
Chemistry of shock compression: A bibliography
[DE84-002192] 05 p0651 N84-14279
A 2-dimensional numerical study of detonation propagation between munitions by means of shock initiation
[AD-A133680] 05 p0661 N84-14346
Computational methods for complex flowfields
[AD-A133970] 05 p0680 N84-14467
Shock associated noise — nozzles
06 p0767 N84-15030
Fully-coupled analysis of jet mixing problems. Part 1. Shock-capturing model, SCIPVIS
[NASA-CR-3761] 06 p0834 N84-15425
The relation between power and energy in the shock initiation of detonations. 1: Basic theoretical considerations and the effects of geometry
[AD-A133468] 06 p0844 N84-15505
Numerical modeling and fast-solver calculation of approximately normal shocks
[NLR-MP-82026-U] 06 p0902 N84-15856
Acoustic shocks in a variable area duct containing near sonic flows
[NASA-CR-172274] 06 p0908 N84-15897
On the relationship between collisionless shock structure and energetic particle acceleration
[NASA-CR-175328] 06 p0910 N84-15909
Investigation to optimize the passive shock wave-boundary layer control for supercritical airfoil drag reduction
[NASA-CR-173276] 07 p0946 N84-16135
Densification of shock-treated aluminum nitride and aluminum oxide
[DE84-003251] 07 p0968 N84-16273
Raman spectroscopy of shocked water
[DE84-002468] 07 p0972 N84-16295
Measurements of CARS intensity in hydrogen molecule behind shock waves 07 p0984 N84-16375
Shock conditions and shock wave structures in a steady flow in a dissipative fluid
[NASA-TM-77381] 07 p1001 N84-16490
Whistler mode turbulence generated by electron beams in Earth's bow shock
[NASA-CR-173143] 07 p1034 N84-16707
H Division: Materials physics
[DE84-001083] 07 p1068 N84-16939
Spectral methods for the Euler equations: Chebyshev methods and shock-fitting
[NASA-CR-172295] 08 p1095 N84-17118
Technique for the rapid generation of OH radicals behind shock waves and its application to the study of combustion kinetics
[DE84-003183] 08 p1126 N84-17317
Dynamic consolidation of ceramic powders: Practicalities, problems, and prospects
[DE84-003744] 08 p1138 N84-17404
Electron acceleration in the front of intense collisionless shock waves
[PR-813] 08 p1154 N84-17511
The time development of a blast wave with shock heated electrons
[NASA-CR-175364] 08 p1156 N84-17529

Numerical simulation of flow over rough surfaces, including effects of shock waves
[AD-A134700] 08 p1159 N84-17545
Electrical-shock prevention. Volume 1: Protection of maintenance personnel
[PB84-102946] 08 p1206 N84-17865
Electrical-shock prevention. Volume 4: Overhead-line contact fatalities
[PB84-102979] 08 p1207 N84-17866
A comparison of explicit time integration techniques for the finite element shock wave equations
[AD-A134757] 08 p1220 N84-17966
Combined ultraviolet studies of astronomical sources
[NASA-CR-175234] 08 p1242 N84-18121
Power spectral signatures of interplanetary corotating and transient flows
[NASA-TM-86051] 08 p1244 N84-18131
An experimental investigation of the impingement of a planar shock wave on an axisymmetric body at Mach 3
[NASA-TM-84410] 09 p1312 N84-18573
Implicit numerical solution for a normal shock
[AD-A135855] 09 p1314 N84-18590
An objective waveform comparison technique
[AD-A136130] 09 p1315 N84-18596
Delta wings with shock-free cross flow
[NASA-CR-172297] 10 p1419 N84-19282
Pattern formation by shock processes
[DE83-015249] 10 p1469 N84-19592
Hazard analysis for magnetic induction from electric transmission lines
[PB84-125236] 10 p1473 N84-19619
Longitudinal resistivity and intermediate Mach number collisionless transverse magnetosonic shocks
[AD-A137122] 10 p1491 N84-19749
Determining and modeling the response of piezoresistance transducers to dynamic loading
[AD-A137121] 10 p1498 N84-19788
The Shock and Vibration Digest, volume 15, no. 11
[AD-A137085] 10 p1507 N84-19858
Fluid-structure interaction by the method of characteristics 10 p1510 N84-19884
Two-dimensional wind tunnel
[NASA-TM-76963] 11 p1620 N84-20602
Approximation of compressible fluid in fluid-structure interaction problems
[CSIR-R/NIAST-15] 11 p1651 N84-20778
An experimental and numerical study of weak spherical N-waves produced by exploding wires
[UTIAS-TECH-NOTE-248] 11 p1651 N84-20779
An analytical and numerical study of the interaction of rarefaction waves with area changes in ducts. Part 1: Area reductions
[UTIAS-272] 11 p1651 N84-20780
Interaction of aerodynamic noise with laminar boundary layers in supersonic wind tunnels
[NASA-CR-3621] 11 p1651 N84-20781
Obtaining the zero-temperature equation of state from shock data
[DE84-006696] 11 p1728 N84-21272
Pulsed generation of singlet delta oxygen (O2(1 delta)) via ozone photolysis
[AD-A138195] 12 p1792 N84-21684
Normal reflection of a shock wave at a rigid wall in a dusty gas
[UTIAS-274] 12 p1815 N84-21829
Richtmyer-Meshkov instabilities in stratified fluids
[DE84-005738] 12 p1911 N84-22449
Shock consolidation of powders: Theory and experiment
[DE84-007273] 13 p1961 N84-22741
Exact solution to problem of interaction between wedge moving at supersonic velocity and interface of two gaseous media 13 p1971 N84-22790
An analysis of shock coalescence including three-dimensional effects with application to sonic boom extrapolation
[NASA-TP-2214] 13 p1988 N84-22906
The onset of detonation behind incident shock waves in chlorine azide-argon mixtures
13 p1990 N84-22921
Underwater shock-induced responses of submerged cylindrical structures
[AD-A139072] 13 p2002 N84-22987
Shock waves and mass outflow in the Orion molecular cloud: Observations of far-infrared emission lines of carbon monoxide, hydroxyl and ammonia
13 p2071 N84-23423
Formation of a shock wave in a dusty gas by a moving piston
[UTIAS-275] 14 p2145 N84-23853
Shock front pumped stokes and anti-stokes reflectivity contributions
[AD-A139134] 14 p2145 N84-23857
Moving finite element research for shock hydrodynamics, continuum mechanics and combustion
[AD-P002970] 14 p2201 N84-24206
Uniqueness of connecting orbits in the equation y(3) = y2 - 1
[AD-A139261] 14 p2213 N84-24289
Experimental investigation of shock-cell noise reduction for dual-stream nozzles in simulated flight comprehensive data report. Volume 1: Test nozzles and acoustic data
[NASA-CR-166336-VOL-1] 14 p2220 N84-24323
Experimental investigation of shock-cell noise reduction for dual-stream nozzles in simulated flight comprehensive data report. Volume 2: Laser velocimeter data, static pressures and shadowgraph photos
[NASA-CR-166336-VOL-2] 14 p2220 N84-24324
Microtheory of collisionless shock current layers
[DE84-007500] 14 p2229 N84-24366
The instability of axisymmetric supersonic jet impinging on flat plate
[BU-257] 15 p2256 N84-24548
A numerical study of shock initiation of composition-b by high-speed impact of small steel projectiles
[AD-A139629] 15 p2303 N84-24821
Studies of elastic-plastic response under high pressure shock loading 15 p2316 N84-24900
Conical flows with leading edge vortices
15 p2333 N84-25013
Blast-wave analysis of high-pressure coupling shells
[AD-A139687] 15 p2350 N84-25108
Shock wave modeling and the HULL computer code formation of Mach stems
[MRL-R-907] 16 p2466 N84-25942
Splitting of condensation shock waves in fluids of high specific heat
[MPIS-MITT-76] 16 p2487 N84-25949
A sensitive optical pyrometer for shock-temperature measurements
[NASA-CR-173602] 16 p2495 N84-26011
Non-linear transient response of flat plate to air shock wave
[AD-A140491] 16 p2503 N84-26063
Failure times and optimal stopping rules of generalized shock models 16 p2552 N84-26372
Grain destruction in interstellar shocks
16 p2569 N84-26487
Characteristics of the magnetospheric source of interplanetary energetic particles
16 p2573 N84-26512
Coalescence of two pressure waves associated with stream interactions
[NASA-TM-86120] 16 p2581 N84-26554
Spatial derivatives of flow quantities behind curved shocks of all strengths
[NASA-TM-85782] 17 p2600 N84-26665
Transonic panel method for the full potential equation applied to multi-component airfoils
[NLR-MP-83030-U] 17 p2601 N84-26674
Interaction of air shock waves and porous shield
17 p2645 N84-26922
Regular reflection of strong shock wave by wedge surface 17 p2647 N84-26932
Numerical simulation of shock/turbulent boundary layer interactions over 2-D compression corners
17 p2666 N84-27000
Whistler mode turbulence at Earth's bow shock: Generation via electron beams and ray path integrated amplification 17 p2726 N84-27349
A comparative review of bow shocks and magnetopauses
[NASA-TM-86114] 17 p2726 N84-27353
Acta mechanica sinica (Selected articles)
[AD-A142125] 19 p3024 N84-29180
Shock vaporization and the accretion of the icy satellites of Jupiter and Saturn
[NASA-CR-173767] 19 p3122 N84-29843
Mechanical properties of a shock consolidated steel powder
[DE84-003573] 20 p3158 N84-30056
Energy release and fluid dynamics in multiphase systems
[AD-A142402] 20 p3184 N84-30228
Shock wave absorber having a deformable liner
[DE84-011308] 20 p3186 N84-30243
Development of a high-pressure quasi-isentropic plane wave generating capability
[DE84-011619] 20 p3203 N84-30348
Investigation of laminar shocks
[DE84-010074] 20 p3242 N84-30582
Spectral methods for compressible flow problems
[NASA-CR-172395] 20 p3279 N84-30816
Some contributions to knowledge of the magnetospheric plasma by ISEE investigators
[NASA-TM-86124] 20 p3301 N84-30962
Ion reflection, gyration, and dissipation at supercritical shocks
[DE84-011353] 20 p3303 N84-30980
Investigation of shock activated sintering and shock wave consolidation of selected powder materials
[DE84-013074] 21 p3371 N84-31391
Shock-initiated decomposition of nitramines with laser diagnostics 21 p3372 N84-31401
Response of a plaster-wood room subjected to simulated sonic booms
[UTIAS-276] 21 p3421 N84-31701
Noncontradictory method of calculating radiation transfer, and problem of shock wave structure
21 p3481 N84-32060
Supersonic nonsteady flow past flat and axisymmetric pointed bodies 21 p3485 N84-32088
Energy characteristics of plasma generated in air near target by radiation from CO2 laser
21 p3488 N84-32103
Studies of low-mass star formation with the large deployable reflector
[NASA-TM-85960] 21 p3524 N84-32328
Expendable infrared source and method therefor
[AD-D011112] 22 p3561 N84-32561
Solar Terrestrial Physics: Present and Future
[NASA-RP-1120] 23 p3836 N84-34332
Collisionless shock waves in the solar terrestrial environment 23 p3837 N84-34342

SHOES
The energy cost and heart rate response of trained and untrained subjects walking and running in shoes and boots
[AD-A131420] 01 p0113 N84-10735
Slippery versus slip resistant work surfaces: The background for a regulatory definition
[PB83-243634] 04 p0516 N84-13392

SHOPS
Artificial intelligence techniques for industrial applications in job shop scheduling
[AD-A132164] 04 p0586 N84-13867
A problem expanding parametric programming method for solving the job shop scheduling problem
[AD-A142392] 20 p3313 N84-31036

SHORAN
Relative-datum Loran navigation
02 p0168 N84-11107

SHORELINES
Evaluation of spatial, radiometric and spectral thematic mapper performance for coastal studies
[E84-10018] 02 p0237 N84-11555
Data validation and summary for the NRL remote sensing experiment. Phelps Bank, July 1982. Part 1: Hydrography
[AD-A132063] 05 p0697 N84-14575
Characteristics of wind direction meander during onshore flow at a coastal site
[DE84-004178] 11 p1688 N84-21007
Historical and projected shoreline changes: Ocean City and north Assateague Island, Maryland
[PB84-190208] 22 p3828 N84-32987

SHORT CIRCUIT CURRENTS
Orbiting wire as a dynamo: Auxiliary power possibilities for space platforms
[IFSI-83-3] 03 p0405 N84-12653
Equivalent electron fluence for solar proton damage in GaAs shallow junction cells 19 p3046 N84-29324

SHORT CIRCUITS
Design conditions for fail safe quenching of a high current density superconducting solenoid with a shorted secondary circuit
[LBL-14859] 01 p0069 N84-10449
Evaluation of advanced technologies for power transformers
[DE84-004046] 10 p1487 N84-19719
Selectivity of low tension circuit protection: The SELLIM system
[CAHIERS-TECHNIQUES-126] 15 p2331 N84-24996

SHORT HAUL AIRCRAFT
NT A-300 AIRCRAFT
NT EUROPEAN AIRBUS
Transonic flutter clearance for a supercritical transport aircraft in the preliminary stage
02 p0170 N84-11121

SHORT RANGE NAVIGATION
U SHORAN

SHORT TAKEOFF AIRCRAFT
NT A-300 AIRCRAFT
NT C-15 AIRCRAFT
NT EUROPEAN AIRBUS
A flight-test evaluation of a go-around control system for a twin engine powered-lift STOL airplane
[NASA-TM-84408] 02 p0181 N84-11178
Thrust-induced effects on subsonic longitudinal aerodynamic characteristics of a vectored-engine-over-wing configuration
[NASA-TP-2228] 04 p0481 N84-13183
Flight-test of the glide-slope track and flare-control laws for an automatic landing system for a powered-lift STOL airplane
[NASA-TP-2128] 04 p0487 N84-13196

Tentative STOL (short-takeoff-and-landing) flying qualities criteria for MIL standard and handbook
[AD-A132657] 05 p0629 N84-14136
Aircraft operations from airfields with special unconventional characteristics 06 p0776 N84-15085
Nonlinear transformat
[NASA-CR-166506] 06 p0905 N84-15877
Design of a lateral ride comfort control system for STOL aircraft
[UTIAS-TN-247] 07 p0950 N84-16165
Effects of blowing spanwise from the tips of low-aspect ratio wings of varying taper ratio, with application to improving STOL capability of fighter aircraft
[AD-A135688] 09 p1252 N84-16175
National Aerospace Laboratory News (Japan)
[NASA-TM-76962] 10 p1427 N84-19335
Experimental investigation of the internal flow field in STOL engine inlets 13 p1927 N84-22544
Development and analysis of a STOL supersonic cruise fighter concept
[NASA-TM-85777] 13 p1930 N84-22553
Supersonic STOVL ejector aircraft from a propulsion point of view
[NASA-TM-83641] 15 p2261 N84-24581
Supersonic STOVL aircraft with turbine bypass/turbo-compressor engines
[NASA-TM-83666] 15 p2261 N84-24582
Aerodynamic characteristics of fan-jet STOL aircraft
[NAL-TR-790] 16 p2440 N84-25651
Advanced prediction technique for the low speed aerodynamics of V/STOL aircraft. Volume 2: User's manual
[NASA-CR-166442-VOL-2] 17 p2600 N84-26663
Calculation of vertical and ramp-assisted takeoffs for supersonic cruise fighters
[NASA-TM-85618] 17 p2600 N84-26668
Design and analysis of a longitudinal ride comfort control system for a Short Take-Off and Landing (STOL) aircraft
[UTIAS-TN-254] 17 p2748 N84-27442
Antonov Bureau developing new STOL turbofan for use in far north 18 p2790 N84-27710
Fuel conservative guidance concept for shipboard landing of powered-lift aircraft
[NASA-TM-85971] 21 p3344 N84-31215
A flight-test and simulation evaluation of the longitudinal final approach and landing performance of an automatic system for a light wing loading STOL aircraft equipped with wing spoilers
[NASA-TM-85873] 22 p3537 N84-32393

SHORT WAVE RADIATION
NT CENTIMETER WAVES
NT DECIMETER WAVES
NT MICROWAVE EMISSION
NT MICROWAVES
NT MILLIMETER WAVES
NT SUBMILLIMETER WAVES
NIMBUS-ERB instrument study
[NASA-CR-165822] 02 p0222 N84-11459
Design and verification of a cloud field optical simulator
[NASA-CR-173274] 07 p1035 N84-16717
The shortwave radiation budget depending on the optical parameters of the atmosphere 10 p1535 N84-20054
Accuracy of the short wave radiation budget derived from Meteosat-VIS-data 10 p1535 N84-20055
Design of short-wave absorption lines 21 p3377 N84-31433

SHORT WAVE RADIO TRANSMISSION
Control unit for frequency shift for short wave radio transmission
[FOA-C-30269-E2] 07 p0994 N84-16447
Concerning criteria for evaluation of amplitude-frequency characteristic of two-signal selectivity of radio reception channel 17 p2633 N84-26846
Simulator-probe for diagnostic testing of short-wave radio channels 22 p3567 N84-32595

SHORTENING
U REDUCTION

SHOT NOISE
Shot noise generated by gas impact during a cometary fly-by — Vega Halley's comet flyby 06 p1118 N84-17273
Shot noise limited detection of OH using the technique of laser induced fluorescence
[NASA-CR-175433] 11 p1662 N84-20844
Fluctuations in optical bistability: Experiment with shot noise 14 p2232 N84-24392

SHOT PEENING
Further thoughts on shot peening (and other compression inducing surface treatments) for fatigue enhancement
[BAE-KRS-N-GEN-275] 17 p2622 N84-26779

SHOULDERS
Analysis of the kinematic properties data of the shoulder complex during forced motion
[AD-A135913] 09 p1362 N84-18895
A model of the shoulder girdle for use in rehabilitation 20 p3264 N84-30710
Treatment of patients with a lesion of the brachial plexus 20 p3264 N84-30712

SHROUDED BODIES
U SHROUDS

SHROUDED PROPELLERS
Energy efficient engine fan component detailed design report
[NASA-CR-165466] 18 p2795 N84-27737

SHROUDS
Characteristics of a four nozzle, slotted mixing stack with slanted shroud, gas eductor system
[AD-A134794] 08 p1159 N84-17547
Method of fabricating an abradable gas path seal
[NASA-CASE-LEW-13269-2] 13 p1997 N84-22957
Application of a quasi-3D inviscid flow and boundary layer analysis to the hub-shroud contouring of a radial turbine
[NASA-TM-83669] 16 p2439 N84-25647
Development of an advanced composite aileron for the L-1011 transport aircraft
[NASA-CR-3517] 18 p2810 N84-27836
Effect of shroud geometry on the effectiveness of a short mixing stack gas eductor model
[AD-A132173] 18 p2836 N84-28004
Special pyrheliometer shroud development 18 p2875 N84-28255
Fatigue induced cracking in aluminum LN-2 shroud of 39 foot vacuum chamber 24 p3862 N84-34476

SHUNTS
U BYPASSES
U CIRCUITS

SHUTDOWNS
Effect of control logic modifications on airstart performance of F100 engine model derivative engines in an F-15 airplane
[NASA-TM-85900] 20 p3130 N84-29879

SHUTTERS
Switching-speed improvements in PLZT shutters
[DE83-013096] 02 p0214 N84-11403
A Maltese cross shaped mobile thermal control shutter — for satellites 10 p1447 N84-19454

SHUTTLE BOOSTERS
U SPACE SHUTTLE BOOSTERS

SHUTTLE DERIVED VEHICLES
Three stage rocket vehicle with parallel staging
[NASA-CASE-MFS-25878-1] 18 p2803 N84-27787

SHUTTLE ENGINEERING SIMULATOR
The role of the Shuttle Engineering Simulator in the Solar Max rescue mission 24 p3864 N84-34489

SHUTTLE ORBITERS
U SPACE SHUTTLE ORBITERS

SHUTTLE PALLET SATELLITES
The modular optoelectronic scanner (MOMS) on STS-7, June 83 03 p0396 N84-12589
Development, production and testing of the primary structure for the Shuttle Pallet Satellite (SPAS-01)
[MBB-UR-580-82-OE] 05 p0642 N84-14227
Spas color camera
[NASA-CR-171739] 08 p1161 N84-17559

SI
U INTERNATIONAL SYSTEM OF UNITS

SIALON
Gas pressure sintering of Beta-Sialon with Z=3
[NASA-TM-77421] 14 p2129 N84-23765

SIBERIA
Formation and distribution of kimberlites in the eastern Siberian platform in connection with deep structure specifics 18 p2858 N84-28151

SIC (COEFFICIENT)
U STRUCTURAL INFLUENCE COEFFICIENTS

SICILY
Effusion rate, length, and area relationships for some lava flows on Hawaii and Mount Etna with planetary implications 13 p2080 N84-23482

SICKNESSES
NT ALTITUDE SICKNESS
NT DECOMPRESSION SICKNESS
Health risks associated with aircraft model type among US Navy pilots
[AD-P003270] 18 p2907 N84-28435

SID (IONOSPHERIC DISTURBANCES)
U SUDDEN IONOSPHERIC DISTURBANCES

SIDE-LOOKING RADAR
NT RADAR IMAGERY
APQ-102 imaging radar digital image quality study
[NASA-CR-171738] 08 p1143 N84-17435
First imagery from Venera-15, -16 shown 12 p1775 N84-21581
Image quality of passive and active scanners
[MBB-UA-684-83-O] 16 p2564 N84-26449
Optimum backscatter cross section of the ocean as measured by synthetic aperture radars 17 p2714 N84-27276
A SAR for real-time ice reconaissance 23 p3765 N84-33869
Oil spill detection with DFVLR X-band SLAR 23 p3781 N84-33973
The geologic study of Taiwan area following up the acquisition of Taiwan SLAR imagery 24 p3957 N84-35051

SIDEBANDS
Effects of nonlinear loads on antennas and scatterers 03 p0365 N84-12376
Nature of polarized vibronic sidebands of biexciton absorption in Alpha-oxygen 20 p3289 N84-30884

SIDELOBE REDUCTION
Video processor for air traffic control beacon system
[NASA-CASE-KSC-11155-1] 06 p0829 N84-15395
Optimal design of an antenna array
[FTZ-454-TBR-38-E] 12 p1808 N84-21789
Sidelobe cancelling techniques used in wideband systems 13 p1976 N84-22822

SIDELOBES
A wideband low-sidelobe disc-o-cone antenna
[AD-A131440] 02 p0210 N84-11370
DOA location accuracy of a multibeam antenna system
[AD-A136386] 09 p1296 N84-18487
A comparative study of linear array synthesis technique using a personal computer
[AD-A141444] 19 p3076 N84-29515
A comparative study of linear array synthesis technique using a personal computer
[AD-P003500] 21 p3383 N84-31466
Computer analysis of phased array far-field patterns for non-symmetrical feed networks
[AD-P003502] 21 p3383 N84-31470
Phase error effects on the radiation patterns of space-fed planar phased arrays
[AD-P003505] 21 p3384 N84-31473
Cascaded adaptive loops
[AD-D011116] 22 p3580 N84-32674
Reducing grating lobes due to subarray amplitude tapering
[AD-A143644] 23 p3730 N84-33644

SIDERITE METEORITES
U IRON METEORITES

SIDES
A new method of evaluating the side wall interference effect on airfoil angle of attack by suction from the side walls
[NASA-TM-77722] 24 p3852 N84-34432

SIDESLIP
Evaluation of a flow direction probe and a pitot-static probe on the F-14 airplane at high angles of attack and sideslip
[NASA-TM-84911] 11 p1606 N84-20514
Development of lateral-directional equivalent system models for selected U.S. Navy tactical aircraft
[AD-A141672] 19 p2968 N84-28810

SIERRA NEVADA MOUNTAINS (CA)
LANDSAT-D investigations in snow hydrology
[E84-10004] 02 p0235 N84-11545
Relationships among precipitation, snowmelt, subsurface flow, groundwater recharge and streamflow generation in the Clear Creek watershed, eastern Sierra Nevada
[PB83-253344] 05 p0697 N84-14579
Assessment of acidity of lakes and precipitation in the Sierra Nevada
[PB83-255521] 05 p0701 N84-14603

SIEVES
Nonparametric estimation by the method of sieves
[AD-A131394] 02 p0284 N84-11862
Factorization using the quadratic sieve algorithm
[DE84-004996] 10 p1572 N84-20299
In-flight evaluation of 2 molecular sieve oxygen concentration systems in US Army aircraft (JUH-1H and JU-21G)
[AD-A140634] 17 p2748 N84-27443

SIGHT
U VISUAL PERCEPTION

SIGNAL ANALYSIS
Analysis of some filtering and data analysis methods for gravitational wave antennas with resonant transducers
[IFSI-82-11] 03 p0362 N84-12359
Data analysis for gravitational wave antenna with resonant transducers
[IFSI-82-12] 03 p0363 N84-12360
La Recherche Aerospatiale, Bimonthly Bulletin, no. 1983-1/212, January-February 1983
[ESA-TT-814] 03 p0429 N84-12810
Instrumentation and signal analysis — aeroacoustics 06 p0768 N84-15032
Video processor for air traffic control beacon system
[NASA-CASE-KSC-11155-1] 06 p0829 N84-15395

Input-output characterization of an ultrasonic testing system by digital signal analysis
[NASA-CR-3756] 06 p0654 N84-15565
Basic investigation on the feasibility of multispectral radiation information from microwave radiometry measurements for Earth-scientific objectives of remote sensing
[DFVLR-FB-83-27] 10 p1526 N84-20000
Open water and thin ice detection in the Arctic marginal ice zone using reflectometer signal analysis
[AD-A136043] 10 p1543 N84-20110
On the estimation of spectral parameters using burst waveforms
[AD-A137932] 11 p1644 N84-20746
A new multifunction acousto-optic signal processor
12 p1906 N84-22413
Bounding of signal levels at terminations of a multiconductor transmission-line network
[AD-A139757] 15 p2329 N84-24983
Study on spectral/radiometric characteristics of the Thematic Mapper for land use applications
[E84-10130] 15 p2357 N84-25140
The measurement of acoustic emission parameters during hydraulic loading of the Novovorenezh AES reactor vessel VVER-1000
[DRIC-T-6998] 15 p2403 N84-25421
A vector space approach to time-variant energy spectral analysis
[AD-A140196] 16 p2553 N84-26378
Efficiency comparison of quasi-optimum direction finding algorithms used for point sources of signals
17 p2633 N84-26844
Evaluation of characteristics of system of space-time processing of signals by statistical simulation method
17 p2633 N84-26845
Method of analysis of combination oscillations of arbitrary nonlinear system for spectrum conversion
17 p2634 N84-26849
Time characteristics of search for compound signals with respect to delay 17 p2634 N84-26851
Jicamarca mesospheric observations
17 p2686 N84-27100
Digital phase meter 18 p2826 N84-27941
Spectral averaging and low-frequency sampling modifications for the IQS 401 FFT (Fast Fourier Transform) spectrum analyzer
[AD-A141181] 18 p2834 N84-27990
An investigation of resonant optoacoustic cells
[PB83-251637] 18 p2929 N84-28572
Perceived C/U ratio measuring equipment for TV ghost images
[NHK-LABS-NOTE-300] 19 p3003 N84-29036
Interactive Signal and Pattern Analysis and Recognition Systems (ISPARS). Users' guide
[AD-A141421] 19 p3075 N84-29514
Large-signal characterization of nonlinear two-port active networks
[AD-A142462] 20 p3178 N84-30184
On fixed-interval minimum symbol error probability detection
[AD-A142465] 20 p3283 N84-30849
Comparison of simulation and measurement techniques for continuous waves and pulses
[SNIAS-841-422-103] 21 p3388 N84-31501
Introduction to Meteorological Satellite Center of Japan Meteorological Agency 21 p3446 N84-31864
Analysis of space telescope data collection systems
[NASA-CR-171129] 21 p3464 N84-31958
Signal analysis and data processing system (acoustic and vibratory)
[CETIM-11-H-50-9] 21 p3467 N84-31981
The role of the reflection coefficient in precision measurement of ultrasonic attenuation
[NASA-TM-83788] 22 p3606 N84-32849
Decision rules applied to spread spectrum signal detection
[AD-A144253] 24 p3894 N84-34661
East Europe report: Science and technology
[JPRS-ESA-84-033] 24 p3943 N84-34960
New computer developments described
24 p3943 N84-34962
Markov processes applied to control, replacement and signal analysis
[AD-A144225] 24 p3953 N84-35034

SIGNAL ANALYZERS
How to check line channel of IKM-15 digital pulse-code-modulation transmission system
17 p2633 N84-26842

SIGNAL DETECTION
NT CORRELATION DETECTION
The detection of signals in impulsive noise
[AD-A130393] 01 p0062 N84-10409
A computer program for the prediction of search radar performance
[AD-A131080] 01 p0067 N84-10436
Cavity detection and delineation research. Part 2. Seismic methodology: Medford Cave Site, Florida
[AD-A131322] 02 p0249 N84-11627
Optimum reception in non-Gaussian electromagnetic interference environments. Part 2: Optimum and suboptimum threshold signal detection in class A and B noise
[PB83-241141] 03 p0363 N84-12364
Description of an automatic seismic measurements package: Analysis and design goals
[AD-A132067] 03 p0407 N84-12666
Some robust techniques in radar signal processing
05 p0664 N84-14367
A study of a class of detection waveforms having nearly ideal range-Doppler ambiguity properties
[AD-A132597] 05 p0669 N84-14401
Ultrasonic NDE of bonds in multilayered systems
[AD-A133619] 05 p0689 N84-14530
Nonlinear regression analysis methodology for the estimation of detection probabilities from empirical data
[AD-A134078] 05 p0727 N84-14770
The calculated performance of some radar and transmissometer systems in rain and fog at 35, 94, 140 and 240 GHz, volume 1
[AD-A133587] 06 p0825 N84-15380
Digital communication in the presence of impulsive noise 06 p0827 N84-15392
Signal detection for same-shape families of non-homogeneous Poisson processes
[AD-A135032] 08 p1217 N84-17942
Auditory induction of discrete tones in signal detection tasks
[AD-A135502] 08 p1227 N84-18019
Detection of bright spots in seismic signal using pattern recognition techniques
[AD-A136210] 09 p1346 N84-18793
Comments on measures of performance of selected signal detectors
[AD-A137102] 10 p1482 N84-19684
On the stability of signal detection
[AD-A136525] 12 p1808 N84-21785
Undersea sound speed and range estimation
[AD-A138954] 13 p2040 N84-23237
An acoustical imaging system for the inspection of solid rocket motors
[AD-A139482] 14 p2156 N84-23918
Demodulator and accumulator for the high-speed data acquisition system 16 p2480 N84-25900
Note on the optimum search strategy for uniformly distributed CW transmitters — implications for Project Seti 16 p2480 N84-25904
An investigation of the effects of scan separation on the sensitivity of the SETI all sky survey for the case of Gaussian noise 16 p2480 N84-25905
Dispersion of sequential detection time for signals submerged in autoregressional interference
17 p2632 N84-26839
Efficiency comparison of quasi-optimum direction finding algorithms used for point sources of signals
17 p2633 N84-26844
Evaluation of characteristics of system of space-time processing of signals by statistical simulation method
17 p2633 N84-26845
Investigation of duration of multichannel sequential signal detection procedure 17 p2634 N84-26850
Time characteristics of search for compound signals with respect to delay 17 p2634 N84-26851
The effects of pulse rate, power, width and coding on signal detectability 17 p2685 N84-27093
Complementary code and digital filtering for detection of weak VHF radar signals from the mesoscale — SOUSY-VHF radar, Harz Mountains, Germany
17 p2690 N84-27134
Multiple-element threshold signal detection of underwater acoustic signals in nongaussian interference environments
[AD-A140620] 17 p2763 N84-27548
Method and apparatus for receiving and tracking phase modulated signals
[NASA-CASE-MSC-16170-2] 18 p2828 N84-27952
Strict redundancy schemes for non-sequential detector reliability. Part 1: Analysis
[AD-A141875] 19 p3006 N84-29055
Uniform apparent contrast noise: A picture of the noise of the visual contrast detection system
[NASA-TM-85867] 19 p3067 N84-29456
List metric detection of coded FH/MFSK (Frequency-Hopped Multiple Frequency Shift Keying) in a tone jamming environment
[AD-A142358] 20 p3174 N84-30153
Locally optimum and suboptimum detector performance in a non-Gaussian interference environment
[PB84-184738] 20 p3176 N84-30173
High resolution, high rate X-ray spectrometer
[DE84-011116] 20 p3190 N84-30266
Use of Peltier effect for small signal amplification and conversion 20 p3266 N84-30864
Angle resolution of wideband signals received by two slightly diverse linear antenna arrays
22 p3565 N84-32582
Relations between algorithms of adaptive optimization of antenna arrays and algorithms of optimum detection of multidimensional stochastic signal
22 p3566 N84-32588
Threshold signals for detector having stabilization of false alarm probability 22 p3567 N84-32590
Random signal recognition based on spectral moments 22 p3568 N84-32597
Fiber optic sensor with enhanced immunity to random environmental perturbations
[AD-D011115] 22 p3656 N84-33174
Signal detection in multiple-access channels
[AD-A143796] 23 p3731 N84-33648
Decision rules applied to spread spectrum signal detection
[AD-A144253] 24 p3894 N84-34661

SIGNAL DETECTORS
An evaluation of automated control of the oxyfuel cutting process for M1 vehicle fabrication
[AD-A134073] 05 p0688 N84-14520
ECM (Electronic Counter Measure) signal discrimination and identification techniques
[AD-A133427] 06 p0824 N84-15372
Comments on measures of performance of selected signal detectors
[AD-A137102] 10 p1482 N84-19684
Diode pumped fiber laser
[AD-A136196] 12 p1820 N84-21866
A new multifunction acousto-optic signal processor
12 p1906 N84-22413
Signal waveform detector using synthetic FM demodulation
[AD-D011055] 22 p3572 N84-32618

SIGNAL DISCRIMINATORS
U SIGNAL DETECTORS

SIGNAL DISTORTION
Interaction of antennas with masts under special consideration of the sensitivity and nonlinear effects in ship borne receiving systems 03 p0364 N84-12371
Cascaded adaptive arrays 05 p0671 N84-14415
Computation of the Wyner-Ziv rate distortion function
[EUT-83-E-140] 10 p1484 N84-19699
Systems approach to measuring short-duration acceleration transients
[AD-P002690] 11 p1659 N84-20825
Linearization of an analog fiber-optic system using the quasi-feedforward technique
[AD-A137529] 11 p1731 N84-21294
Study and design of a cylindrical lens array antenna for wideband electronic scanning
[AD-A138808] 13 p1983 N84-22875
Utilization of light wave scales and opto-electronic transformers for measuring distortion and expansion
[ISD-309] 16 p2557 N84-26402
Method of flicker suppression in television image
17 p2632 N84-26838
Dispersion of sequential detection time for signals submerged in autoregressional interference
17 p2632 N84-26839
Concerning criteria for evaluation of amplitude-frequency characteristic of two-signal selectivity of radio reception channel 17 p2633 N84-26846
Method of analysis of combination oscillations of arbitrary nonlinear system for spectrum conversion
17 p2634 N84-26849
Two-stage regenerative microwave amplifiers with reduced nonlinear distortions 17 p2638 N84-26878
Simulator-probe for diagnostic testing of short-wave radio channels 22 p3567 N84-32595
Intermodulation distortions in semiconductor microwave receivers and transmitters (survey)
22 p3569 N84-32605
Measurement of geometric distortion in airborne SAR images 23 p3778 N84-33951
Distortion measurement of antennas under space simulation conditions with high accuracy and high resolution by means of holography
24 p3864 N84-34491
Distortions in frequency spectra of signals associated with sampling-pulse shapes
[DE84-701747] 24 p3896 N84-34672

SIGNAL ENCODING
NT DIFFERENTIAL PULSE CODE MODULATION
Signal encoding and telemetry systems for space vehicles
[AD-A134445] 07 p0963 N84-16244
Investigation of digital encoding techniques for television transmission
[NASA-CR-171734] 07 p0991 N84-16421

Investigation of encryptation for satellite communications
[FOA-C-30300-E1] 08 p1146 N84-17457
On the application of biphase coding in data communication systems
[EUT-82-E-132] 10 p1483 N84-19696
Computation of the Wyner-Ziv rate distortion function
[EUT-83-E-140] 10 p1484 N84-19699
Pulse compression using binary phase codes
17 p2692 N84-27145
A procedure for designing exact reconstruction filter banks for tree-structured subband coders
[AD-A142345] 20 p3173 N84-30150
A strategy for successful deep space information transmission in bad weather 22 p3574 N84-32635

SIGNAL FADEOUT
U SIGNAL FADING

SIGNAL FADING
NT SELECTIVE FADING
Rapid fading of the signal level on 2 GHz microwave communication link between CDAS and MSC
09 p1347 N84-16801
Computerized simulation of multipath fading for mobile radio systems 10 p1477 N84-19647
Analysis of receivers provided with equalizers for digital radio links in the presence of multipath fading
[FUB-56-1982] 10 p1483 N84-19691
Data communications in the mobile radio channel
[EUT-83-E-142] 10 p1484 N84-19700
Equatorial scintillation of satellite signals and some drift characteristics of the scintillation
[AD-A137555] 11 p1642 N84-20738
Prediction of multipath fading on terrestrial microwave links at frequencies of 11 GHz and greater
15 p2324 N84-24953
Multipath outage performance of digital radio receivers using finite-tap adaptive equalizers
15 p2324 N84-24955
Spherical propagation models for multipath-propagation predictions 15 p2324 N84-24956
Estimation of the parameters of an unmodulated carrier signal disturbed by complex-multiplicative and additive Gaussian noise
[ESA-TT-737] 16 p2482 N84-25914
Signal power during radioacoustic sounding of turbulent atmosphere 18 p2664 N84-28186
Performance of digital communications over selective fading channels 21 p3381 N84-31456
Effect of spatial decorrelation on nulling performance of linear adaptive array
[AD-A143013] 21 p3400 N84-31570

SIGNAL FADING RATE
Effect of leap length on the quality of large capacity numerical linkages 15 p2324 N84-24954
Project Noordwijk, part 5: Analysis of the fading component of the radar backscatter
[AD-B083044] 19 p3010 N84-29082

SIGNAL GENERATORS
NT FREQUENCY SYNTHESIZERS
NT FUNCTION GENERATORS
Magnetic heading reference
[NASA-CASE-LAR-12636-1] 05 p0629 N84-14132
Chirp signal generator feasibility study — ERS-1 altimeter
[TH-CSF-DASM-83/001/106] 07 p0999 N84-16482
Automated acceptance test procedures for wideband microwave synthesized signal generator testing
[AD-A134923] 08 p1162 N84-17563
Optical Information Processing for Aerospace Applications 2
[NASA-CP-2302] 12 p1904 N84-22402
A transmission line bridge for the diagnostics of plasma channels
[AD-A139286] 14 p2228 N84-24362
An improved MSK generator diagnostic unit
[AD-A140568] 17 p2672 N84-27028
Method and apparatus for measuring response time — thermocouples
[DE84-011042] 21 p3406 N84-31603

SIGNAL MEASUREMENT
Three-wire static strain gage apparatus
[AD-D011130] 22 p3596 N84-32776

SIGNAL MIXING
Cyrogenic FET IF-amplifier for a mm wave mixer
[REPT-S-124] 09 p1310 N84-18566
Cryogenic 75-95 GHz front-end for the Metsaehovi radio telescope
[REPT-S-145] 15 p2424 N84-25564
Manipulation of the mixing process between streams of different velocity and temperature in the presence of pressure gradient
[AD-A143457] 22 p3593 N84-32757

SIGNAL PROCESSING
Omega Data Bank
[AD-A131089] 01 p0008 N84-10046
Computerized audio processor
[AD-A130390] 01 p0063 N84-10411
Analysis of the Howells-Applebaum algorithm in the presence of moving interference. The use of lattice filters in daptive array processors. Stability analysis of LMS adaptive filters. Adaptive array processors with moving interference
[AD-A130218] 01 p0063 N84-10413
Survey of radar Automatic Detection and Tracking (ADT)
[AD-A130358] 01 p0064 N84-10420
Multimode radar signal processor integration facility
[AD-A130655] 01 p0065 N84-10424
A matched filter doppler processor for airborne radar
[AD-A130653] 01 p0065 N84-10425
Results of PLACES data analysis
[AD-A130933] 01 p0066 N84-10432
Distributed detection of signal waveforms in additive Gaussian observation noise
[AD-A131016] 01 p0066 N84-10434
Optimal constrained representation and filtering of signals
[AD-A129157] 01 p0069 N84-10453
Signal-processing capabilities of a computerized ultrasonic scanning bridge
[DE83-013708] 01 p0085 N84-10553
A distributed signal processing architecture
[AD-A130227] 01 p0119 N84-10771
A systolic architecture for singular value decomposition
[AD-A130098] 01 p0132 N84-10864
On the application of optical signal processing to the solution of Riccati equations
[AD-A130710] 01 p0133 N84-10869
The fast Fourier transform as a signal processing technique
[AD-A131011] 01 p0133 N84-10872
Sensor correlation and data fusion theory
[AD-A131510] 01 p0134 N84-10875
Optimum multisensor, multitarget localization and tracking
[AD-A129805] 01 p0139 N84-10914
Thin-film guided-wave devices for integrated/fiber optic signal processing and communications
[AD-A129582] 01 p0152 N84-11001
A carrier recovery closed loop implementation in high velocity PSK modems by digital techniques — (feedback control)
[INPE-2822-PRE/376] 02 p0208 N84-11355
Broadband communication with fiber optic channels
[BMFT-FB-T-83-118] 02 p0211 N84-11377
Electronics research at the University of Texas at Austin
[AD-A131130] 02 p0213 N84-11397
System for recording, processing and interpreting vertical seismic profiles
[BMFT-FB-T-83-152] 02 p0250 N84-11638
High-speed digital signal normalization for feature identification
[NASA-TM-85719] 02 p0270 N84-11767
Two dimensional linear prediction models. Part 1. Spectral factorization and realization
[AD-A130954] 02 p0280 N84-11833
Probability expressions, with applications to fault testing in digital networks
[AD-A131367] 02 p0284 N84-11860
Applications of Hilbert space theory to optimal and adaptive space-time processing
[AD-A131401] 02 p0286 N84-11876
Optimum reception in non-Gaussian electromagnetic interference environments. Part 2: Optimum and suboptimum threshold signal detection in class A and B noise
[PB83-241141] 03 p0363 N84-12364
Center for electronics and electrical engineering technical progress bulletin covering signals and systems program, April 1982 - September 1982
[PB83-241158] 03 p0369 N84-12405
Utility of the cortical evoked response as a measure of photographic image quality
[AD-A131679] 03 p0377 N84-12455
Description of an automatic seismic measurements package: Analysis and design goals
[AD-A132067] 03 p0407 N84-12666
Microearthquakes induced during hydraulic fracturing at the Fenton Hill HDR site: The 1982 experiments
[DE83-014191] 03 p0408 N84-12672
High-speed videography combined with an x-ray image intensifier for dynamic radiography
[DE83-017233] 03 p0442 N84-12905
Polynomial driven time base and PN generator
04 p0519 N84-13409
White light signal processing with the application to spread spectrum communications
[AD-A132418] 04 p0520 N84-13417
Algorithms for single-signal and multisignal minimum-cross-entropy spectrum analysis
[AD-A132400] 04 p0520 N84-13420
Application of pseudoinversion to linear system identification with discrete measurements
[AD-A132283] 04 p0521 N84-13422
Signal processor interface simulation of the AN/SPY-1A radar controller
[AD-A132170] 04 p0522 N84-13429
Low-power radiation-hard GaAs RAM
[AD-A132325] 04 p0526 N84-13457
Some robust techniques in radar signal processing
05 p0664 N84-14367
An evaluation of the broadband direction finding capabilities of array signal processing techniques
05 p0665 N84-14368
Optical fibre links for digital YUV signals
[BBC-RD-1983/14] 05 p0665 N84-14372
Digital audio: Dynamic range control of digital audio signals
[BBC-RD-1983/17] 05 p0665 N84-14374
Subsystem duplexer for a 6-4 GHz Earth station
[INPE-2795-PRE/357] 05 p0666 N84-14379
Fault tolerant signal processing using finite fields and error-correcting codes
[AD-A133927] 05 p0667 N84-14386
XWVG: A waveguide program for trilinear tropospheric ducts. Computer program for calculating the signal levels of EM (Electromagnetic) waves propagating over seawater
[AD-A133667] 05 p0669 N84-14399
Effects of cochannel interference on QPSK systems in a nonlinear satellite channel 05 p0671 N84-14414
Cascaded adaptive arrays 05 p0671 N84-14415
Adaptive noise cancellation in neuromagnetic measurement systems
[AD-A132547] 05 p0684 N84-14494
Parametric study of optically pumped far-infrared waveguide lasers, part 1. Theory and experiment of folded Fabry-Perot quasi-optical ring resonator diplexer
05 p0687 N84-14515
Ultrasonic inspection for roadwheel bondline quality
[AD-A132608] 05 p0690 N84-14531
AFCRL (Air Force Cambridge Research Laboratories) acoustic wind sensor system
[AD-A133739] 05 p0708 N84-14641
Nonlinear regression analysis methodology for the estimation of detection probabilities from empirical data
[AD-A134078] 05 p0727 N84-14770
Exact performance of general second-order processors for Gaussian inputs
[AD-A134098] 05 p0733 N84-14816
Switchable zero order diffraction gratings as light valves
[AD-A133010] 05 p0747 N84-14908
Towards the functional partitioning of highly integrated, fault tolerant avionics signal processors
06 p0770 N84-15047
Low rate transmission of video signals using adaptive delta modulation
[AD-A133145] 06 p0823 N84-15363
Adaptive signal detection for the optimal communications receiver
[AD-A133498] 06 p0824 N84-15374
Digital communication in the presence of impulsive noise 06 p0827 N84-15392
Performance characteristics of passive coherence estimators
[AD-A133209] 06 p0829 N84-15396
Time delay estimation using the adaptive delay element
[DE84-002042] 06 p0830 N84-15403
Maximum entropy linear prediction method
[FUB-48-1982] 06 p0902 N84-15857
Linear prediction methods — signal processing
[FUB-52-1982] 06 p0902 N84-15858
Geometric methods for linear prediction — signal processing
[FUB-54-1982] 06 p0903 N84-15859
Stationary stochastic processes — spectrum analysis
[ESA-TT-812] 06 p0905 N84-15875
Optimum and sub-optimum processors for multistatic radar systems 06 p0906 N84-15885
A radar signal processor implemented with surface acoustic waves devices 06 p0907 N84-15889
The maximum entropy method and its application to clutter cancellation 06 p0907 N84-15890
The development of a digital processing system for accurate range determinations — for Teleoperator Maneuvering Systems 06 p0930 N84-16046
Investigation of digital encoding techniques for television transmission
[NASA-CR-171734] 07 p0991 N84-16421
Preliminary study of (2-D) digital filtering for dealiasing NOSS wind direction data
[NASA-CR-173147] 07 p1036 N84-16721

Test Operations Procedure: Signal converters
[AD-A134815] 08 p1144 N84-17446
Sampling mismatch and timing jitter in pulse-Doppler radar
[AD-A134683] 08 p1144 N84-17447
V-band integrated quadriphase modulator
[NASA-CR-175159] 08 p1149 N84-17460
Research Laboratory of Electronics
[AD-A135319] 08 p1150 N84-17486
RLE (Research Laboratory of Electronics)
[AD-A134812] 08 p1151 N84-17495
An active filter primer
[AD-A134838] 08 p1152 N84-17498
Temporal aspects of eye movement when viewing multiple targets
[AD-A134653] 08 p1201 N84-17828
Introduction to acoustic emission
[NASA-TM-77088] 08 p1227 N84-18016
Quantification of interference and detectability properties of visual stimuli for optimal display design
[AD-A135438] 08 p1232 N84-18049
Control and identification of time varying systems
[AD-A135223] 08 p1238 N84-18091
DOA location accuracy of a multibeam antenna system
[AD-A136366] 09 p1298 N84-18487
Quantization and detection in signal processing
[AD-A136560] 09 p1299 N84-18494
Processing techniques for intelligibility improvement to speech with co-channel interference
[AD-A135702] 09 p1302 N84-18508
Multi-dimensional signal processing research program
[AD-A135732] 09 p1302 N84-18511
The vocoder project
[AD-A135820] 09 p1302 N84-18512
The C-squared system: A general-purpose neuron network model
[AD-A136191] 09 p1304 N84-18524
UCLA demodulation engine
[AD-A135912] 09 p1309 N84-18556
Detection of bright spots in seismic signal using pattern recognition techniques
[AD-A136210] 09 p1346 N84-18793
A comparison of optical versus hardware fourier transforms
[AD-A136223] 09 p1373 N84-18963
Calculation of cumulative distributions and detection probabilities in communications and optics
[AD-A136561] 09 p1376 N84-18989
Optical signal processing
[AD-A135906] 09 p1389 N84-19074
Acousto-optic processing of 2-d signals using temporal and spatial integration
[AD-A136086] 09 p1390 N84-19078
Proceedings of USC Workshop on VLSI and Modern Signal Processing
[AD-A136655] 09 p1399 N84-19138
Signal processing applications of systolic array technology (extended summary)
09 p1399 N84-19139
Frequency domain digital filtering with VLSI
09 p1400 N84-19142
An overview of signal representations in signal processing languages 09 p1400 N84-19146
Parallel implementation of likelihood-based estimation and detection 09 p1400 N84-19148
Digital signal processing structures for VLSI
09 p1401 N84-19149
Signal processing in high data rate environments. Design tradeoffs in the exploitation of parallel architectures and fast system clock rates. An overview
09 p1401 N84-19151
Impact of VLSI on modern signal processing
09 p1402 N84-19155
A systolic signal processor for recursive filtering
09 p1402 N84-19156
The impact of VLSI on signal processing
09 p1402 N84-19159
Concurrent VLSI architectures for two dimensional signal processing systems 09 p1402 N84-19162
Some critical issues in VLSI signal processor implementation 09 p1403 N84-19164
A comparison of arithmetic units in VLSI signal processing systems 09 p1403 N84-19165
The Microelectronics Center: A new force in cooperative VLSI signal processing research
09 p1403 N84-19166
Computing theory and practice
09 p1403 N84-19167
VLSI signal processing: Basis for cooperation
09 p1403 N84-19168
A set function approach to cluster analysis
09 p1412 N84-19237
Comments on measures of performance of selected signal detectors
[AD-A137102] 10 p1482 N84-19684
Some signal processing methods based on covariance estimates of signal and noise
[FOA-C-30343-E1] 10 p1484 N84-19701
Measurement and analysis of platform damping in advanced turbine blade response
10 p1514 N84-19911
Source signature recovery in reverberant structures
10 p1515 N84-19922
Digital signal processing in computer aided cartography
[SER-C-278-MITT-163] 10 p1526 N84-19998
Ambiguity surface statistics and fluctuations
[AD-A137499] 10 p1570 N84-20284
Technical specifications for spread function model
[AD-A137292] 10 p1575 N84-20321
Study on extremizing adaptive systems and applications to synthetic aperture radars
[AD-A137725] 11 p1643 N84-20744
Radar signal processing architectures and algorithms in digital VLSI (Very Large Scale Integration)
[PB84-140110] 11 p1645 N84-20756
Non-self generating transducer signal conditioning technique
[AD-P002677] 11 p1657 N84-20814
Utilization of double integration methodology to determine an aircraft's vertical displacement
[AD-P002681] 11 p1658 N84-20818
Effect of measurement system phase response on shock spectrum computation
[AD-P002688] 11 p1659 N84-20823
Spectral analyses of high-frequency Pn, Sn phases from very shallow focus earthquakes
[AD-A137778] 11 p1681 N84-20973
Numerical methods for partial differential equations
[AD-A137624] 11 p1713 N84-21167
Research in stochastic processes
[AD-A137736] 11 p1717 N84-21202
Study of advanced signal processing and calibration for IRES (Infrared sensors)
[REPT-458-DT-5] 12 p1782 N84-21626
Voice preprocessing system incorporating a real-time spectrum analyzer with programmable switched-capacitor filters
[AD-A137999] 12 p1805 N84-21769
Measurement of ocean surface winds by SEASAT synthetic aperture radar
[AD-A138392] 12 p1836 N84-21971
SETI science working group report
[NASA-TP-2244] 12 p1869 N84-22178
A 2-step bilinear filtering approximation
[AD-A138350] 12 p1894 N84-22338
Employment of adaptive learning techniques for the discrimination of acoustic emissions
[AD-A138142] 12 p1899 N84-22368
Advances in white-light optical signal processing
12 p1905 N84-22406
Optical bistability: A novel approach to optical signal processing and communications
12 p1905 N84-22411
Hybrid integrated optic modules for real-time signal processing 12 p1905 N84-22412
A new multifunction acousto-optic signal processor
12 p1906 N84-22413
Integrated optical signal processing with magnetostatic waves 12 p1907 N84-22420
Real time pressure signal system for a rotary engine
[NASA-CASE-LEW-13622-1] 13 p1931 N84-22559
Computer controlled laser optoacoustic spectroscopy for trace gas analysis 13 p1955 N84-22710
Research Trends in Military Communications
[AD-A138229] 13 p1975 N84-22821
Enhancement of spread-spectrum systems through adaptive antenna techniques 13 p1976 N84-22824
Jam-resistant tactical communications
13 p1976 N84-22826
Spread spectrum networks 13 p1977 N84-22831
Generalized adaptive node concept
13 p1977 N84-22833
A digital adaptive array processing algorithm for communications 13 p1977 N84-22834
Signal processing circuit development
[AD-A138648] 13 p1982 N84-22870
Nearly optimal detection of signals in non-Gaussian noise
[AD-A138657] 13 p1983 N84-22872
Environmental qualification tests, signal conditioning unit, SD802 materials experiment
[AD-A138910] 13 p1987 N84-22897
Adaptive hybrid picture coding
[AD-A138876] 13 p2033 N84-23184
Undersea sound speed and range estimation
[AD-A138954] 13 p2040 N84-23237
Real-time implementation of nonlinear optical processing functions
[AD-A138843] 13 p2043 N84-23256
Command Post Modem/Processor (CPM/P)
[AD-P002151] 14 p2138 N84-23818
Real time speech recognition on a distributed digital processing array
[AD-A139097] 14 p2139 N84-23826
Synthetic voice: Power system enunciation speech synthesis system
[PB84-151646] 14 p2141 N84-23838
Nimbus-Earth radiation budget instrument analysis
[NASA-CR-172318] 14 p2175 N84-24029
Efficient realizations in hardware implementations for digital signal processing
[AD-A139112] 14 p2202 N84-24218
Fingerprint theorems for zero-crossings
[AD-A139181] 14 p2212 N84-24280
Instabilities and chaos in TV-optical feedback
14 p2237 N84-24422
A simplified method of evaluating aircraft handling qualities using a pilot transfer function model
[GU-AERO-8302] 15 p2264 N84-24595
Digital video transmission with reduced frame repetition rate and movement-adapted frame-to-frame interpolation
[AD-B075822] 15 p2318 N84-24915
Informatics 1983: Signal processing
[FOA-A-30033-E] 15 p2321 N84-24932
Investigation of charge coupled devices for signal processing
[AD-A139820] 15 p2329 N84-24985
Low power radiation hard GaAs RAM
[AD-A139930] 15 p2329 N84-24986
Development of automatic measuring system for image pickup tubes
[NHK-LN-295] 15 p2335 N84-25014
Research on new, fast, direct-executing programs for multiple microprocessor systems
[PB84-162791] 15 p2393 N84-25364
Development of an interferometric technique for reduction of background radiation at 10 micrometers
[AD-A140081] 15 p2408 N84-25455
Goldstone R/D high speed data acquisition system
16 p2480 N84-25899
A sensitive optical pyrometer for shock-temperature measurements
[NASA-CR-173602] 16 p2495 N84-26011
An evaluation of the directed flow graph methodology
[NASA-CR-173593] 16 p2543 N84-26324
Timing analysis of hard X-ray emission and 22 GHz flux and polarization in a solar burst
[INPE-3103-PRE/502] 16 p2581 N84-26551
Navstar Global Positioning System overview
[AD-A140793] 17 p2605 N84-26691
USSR report: Electronics and electrical engineering
[JPRS-UEE-84-007] 17 p2630 N84-26821
Algorithms of adaptive Markov filtration of noisy speech signals 17 p2630 N84-26822
Synthesis of devices for optimum processing of signals in low-altitude radio altimeter 17 p2630 N84-26826
On the possibilities of single-antenna ionosphere sounding 17 p2631 N84-26829
Detection of space-time signal with scattering from background of isotropic noise field
17 p2632 N84-26835
Investigation of asynchronous detector with self-pumping based on Gunn diode
17 p2633 N84-26847
Time characteristics of search for compound signals with respect to delay 17 p2634 N84-26851
Multisensor speech input
[AD-A140894] 17 p2654 N84-26974
Performance of telecommunications systems in a random probabilistic environment. Task 1: Comparisons of spread-spectrum and conventional narrowband modulation methods
[PB84-158542] 17 p2655 N84-26979
Thermal wave imaging for non-destructive evaluation of subsurface cracks in opaque materials
17 p2676 N84-27046
The MST radar technique: Requirements for operational weather forecasting 17 p2682 N84-27077
The economics of data acquisition computers for ST and MST radars 17 p2683 N84-27084
Morphology of the scattering target: Fresnel and turbulent mechanisms 17 p2684 N84-27087
Discrimination against interfering signals at the Poker Flat MST radar 17 p2685 N84-27097
Pulse stuttering as a remedy for aliased ground backscatter 17 p2685 N84-27098
Signal processor architecture for backscatter radars
17 p2695 N84-27164
Real-time MST radar signal processing using a microcomputer running under FORTH
17 p2695 N84-27165
Data analysis techniques: Spectral processing
17 p2695 N84-27166
Signal processing at the Poker Flat MST radar
17 p2695 N84-27169

Parmeterization of spectra 17 p2696 N84-27170
Properties of echo spectra observed by MST radars 17 p2696 N84-27171
Parameterization of spectrum 17 p2696 N84-27172
Spectral moment estimation in MST radars 17 p2696 N84-27173
The discrete prolate spheroidal filter as a digital signal processing tool 17 p2696 N84-27174
Shot waves in frozen ground 17 p2703 N84-27218
The dual-frequency scatterometer reexamined 17 p2714 N84-27260
High-sensitivity correlation receiver for radio interferometry 18 p2623 N84-27924
Microprocessor devices for analog signal processing 18 p2624 N84-27926
Signal detection and block truncation coding for image compression
[AD-A141162] 18 p2629 N84-27958
Aerosol backscatter lidar calibration and data interpretation
[NASA-CR-173738] 18 p2645 N84-28067
Practical measurement of rainfall rate by radar 18 p2666 N84-28318
Information from bias measurement — meteorological radar signals 18 p2668 N84-28327
Digital interface for bi-directional communication between a computer and a peripheral device
[NASA-CASE-MSC-20258-1] 18 p2916 N84-28492
Multi-dimensional signal processing research program
[AD-A141273] 18 p2917 N84-28497
Acoustic surface wave applications 18 p2918 N84-28503
Enhanced tracking of airborne targets using multiple model filtering techniques for adaptive field of view expansion
[AD-A141144] 18 p2926 N84-28554
An investigation of resonant optoacoustic cells
[PB83-251637] 18 p2929 N84-28572
Optical signal processing for surveillance
[AD-A140957] 18 p2932 N84-28591
Comparison of six integrators used in long-term radar integrations
[AD-A141536] 19 p3005 N84-29046
F/A-18 AN/APG-65 radar case study report (IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A142103] 19 p3007 N84-29057
AN/TPQ-36 and AN/TPQ-37 firefinder radars case study report (IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Research and Maintainability) study
[AD-A142104] 19 p3007 N84-29058
Artificial intelligence applied to spectrum estimation
[AD-A142202] 19 p3007 N84-29062
Digital sound transmission methods for TV sound tracks
[BMFT-FB-W-84-007] 19 p3009 N84-29075
Frequency domain non-linear signal processing apparatus and method for discriminationd against non-Gaussian interference
[AD-D011068] 19 p3017 N84-29126
VLSI systems of digital signal processing for consumer applications
[BMFT-FB-T-84-060] 19 p3019 N84-29143
Program descriptions for Interactive Signal and Pattern Analysis and Recognition System (ISPARS)
[AD-A141575] 19 p3077 N84-29522
Detection of randomly occuring signals using spectra and frequency domain kurtosis estimates
[AD-A141461] 19 p3084 N84-29573
Nonlinear observability and mixed-coordinate bearing-only signal processing
[AD-A141824] 19 p3088 N84-29603
Optical adaptive filter. Frequency domain implementation
[AD-A141090] 19 p3104 N84-29718
Signal processor for remote optical interferometric sensors
[AD-D011045] 19 p3105 N84-29726
A procedure for designing exact reconstruction filter banks for tree-structured subband coders
[AD-A142345] 20 p3173 N84-30150
Locally optimum and suboptimum detector performance in a non-Gaussian interference environment
[PB84-184738] 20 p3176 N84-30173
Research in VLSI (Very Large Scale Integration) systems
[AD-A142511] 20 p3178 N84-30185
New adaptive processor for coherent signals and interference
[AD-A142638] 20 p3273 N84-30776
On fixed-interval minimum symbol error probability detection
[AD-A142465] 20 p3283 N84-30849
Nonlinear real-time optical signal processing
[AD-A142619] 20 p3300 N84-30956
Architectural and control considerations for a high speed signal processor implemented with an Ada (Trademark) executive
[AD-P003594] 21 p3341 N84-31199
USSR report: Electronics and electrical engineering
[JPRS-UEE-84-008] 21 p3376 N84-31427
Results of investigation of adaptive speech codes 21 p3376 N84-31428
Adaptive multibeam antenna array 21 p3377 N84-31430
Large-signal amplifier based on ferrimagnetic echo 21 p3378 N84-31440
Multiple source DF (Direction Finding) signal processing: An experimental system
[AD-P003515] 21 p3385 N84-31483
Determining the number of signals by information theoretic criteria
[AD-A142748] 21 p3386 N84-31486
Embedded information transfer technology assessment
[AD-A142649] 21 p3391 N84-31518
Using information on tangential target motion in space-time signal processing 21 p3487 N84-32101
Test and evaluation of the Satellite-Aided Maritime Search and Rescue System (SAMSARS). Volume 2: Hardware circuitry and software programs
[PB84-184639] 22 p3540 N84-32413
Underwater depth telemetry
[AD-D011054] 22 p3541 N84-32418
Random signal recognition based on spectral moments 22 p3568 N84-32597
A transportable satellite Earth station
[BBC-RD-1984/8] 22 p3571 N84-32614
Signal waveform detector using synthetic FM demodulation
[AD-D011055] 22 p3572 N84-32618
INTERMD: A computer program to predict intermodulation product generation on two-way FM radio frequencies
[DE84-013767] 22 p3578 N84-32661
Programmable signal processing device
[AD-D011109] 22 p3580 N84-32673
Research in monolithic, signal-processing circuits
[AD-A143204] 22 p3586 N84-32709
Development and characterization analysis of a radar polarimeter
[NASA-CR-175259] 22 p3598 N84-32785
Sensor correlation and data fusion theory
[AD-A143587] 22 p3649 N84-33133
Sweden: Optical fiber carries laser power for welding 22 p3651 N84-33144
Microwave and quantum magnetics 22 p3683 N84-33348
Digital signal processing 22 p3684 N84-33357
C.A.T. scanner for detecting flaws in metals 23 p3706 N84-33494
Segmentation of the speech signal based on changes in energy distribution in the spectrum
[ISSN-0206-5658] 23 p3729 N84-33635
Electronic cancelling of acoustic traveling waves
[AD-D011153] 23 p3735 N84-33667
Multipoint method for sample temperature measurement in a mirror furnace
[TS-14-83] 23 p3752 N84-33789
Simple MTI using synthetic aperture radar — moving target imaging (MTI) 23 p3765 N84-33868
Digital filter processor design for spaceborne scatterometers 23 p3777 N84-33948
Digital processing and absolute calibration of a stripmap synthetic aperture radar 23 p3778 N84-33954
Optical flip-flop system
[AD-D011165] 23 p3825 N84-34261
Real time flight test conduction and monitoring 24 p3850 N84-34414
Pipelined digital SAR azimuth correlator using hybrid FFT-transversal filter
[NASA-CASE-NPO-15519-1] 24 p3893 N84-34651
Decision rules applied to spread spectrum signal detection
[AD-A144253] 24 p3894 N84-34661
The Lincoln Laboratory-Aerospace Medical Research Laboratory digital speech test facility
[AD-A144303] 24 p3894 N84-34662
Two-dimensional signal processing and storage and theory and applications of electromagnetic measurements
[AD-A144286] 24 p3898 N84-34680
Joint services electronics program
[AD-A144444] 24 p3898 N84-34684
Joint services electronics program
[AD-A144445] 24 p3898 N84-34685
Three-dimensional laser Doppler anemometer measurements of a jet in a crossflow
[NASA-TM-85997] 24 p3900 N84-34695
Microprocessors for analog signal processing 24 p3941 N84-34947
Interactive digital signal processor
[NASA-TM-83997] 24 p3944 N84-34974

SIGNAL RECEPTION

NT SYMBOLS
NT TELEVISION RECEPTION
Results of PLACES data analysis
[AD-A130933] 01 p0096 N84-10432
Experimental and theoretical analysis of the relation between received signal power and signal to noise ratio of a heterodyne laser detection system
[PHL-1983-02] 02 p0228 N84-11495
USSR rept.: Electronics and electrical engineering. Radar signal reception against background of random interference
[JPRS-UEE-84-001] 07 p0986 N84-16389
The Telecommunications and Data Acquisition Report
[NASA-CR-173263] 10 p1473 N84-19621
Loop gain and circuit parameters for residual carrier tracking in the advanced DSN block V receiver 10 p1474 N84-19625
Adaptive cancellation techniques
[AD-A136946] 10 p1481 N84-19680
Noise immunity of optical lines with imprecise levels of signal and noise 17 p2634 N84-26852
Method and apparatus for receiving and tracking phase modulated signals
[NASA-CASE-MSC-16170-2] 18 p2828 N84-27952
Digital rotation measurement unit
[DE84-010872] 21 p3392 N84-31528
The INPE handouts to the 6th LANDSAT Technical Working Group (LTWG) Meeting
[E84-10176] 21 p3427 N84-31738
In-flight accuracy and coverage tests of ESM- and ECM-systems 24 p3849 N84-34412
Frequency independent acoustic antenna
[AD-D011194] 24 p3963 N84-35093

SIGNAL REFLECTION

Ultrasonic NDE of bonds in multilayered systems
[AD-A133619] 05 p0689 N84-14530
An NMR study of solid hydrogen using packer solid echoes and rotating reference frame relaxation 06 p0922 N84-15992
Acoustic imaging of vapor bubbles through optically non-transparent media
[DE84-003961] 08 p1228 N84-18022
Parametrization of Fresnel returns 17 p2689 N84-27124
Multipath induced errors in meteorological Doppler/interferometer location systems
[NASA-CR-175243] 18 p2844 N84-28058
Influence of horizontally-random bottom structure on acoustic intensity in a shallow ocean
[AD-A141383] 19 p3099 N84-29688
Large-signal amplifier based on ferrimagnetic echo 21 p3378 N84-31440

SIGNAL STABILIZATION

Investigation of asynchronous detector with self-pumping based on Gunn diode 17 p2633 N84-26847

SIGNAL TO NOISE RATIOS

Experimental and theoretical analysis of the relation between received signal power and signal to noise ratio of a heterodyne laser detection system
[PHL-1983-02] 02 p0228 N84-11495
On the performance of two-stage group screening experiments
[AD-A131970] 03 p0428 N84-12807
Algorithms for single-signal and multisignal minimum-cross-entropy spectrum analysis
[AD-A132400] 04 p0520 N84-13420
Optimum depth of propagation in shallow water
[AD-A132182] 04 p0595 N84-13927
Research on adaptive antenna techniques 5
[AD-A133676] 05 p0669 N84-14398
Double parametric oscillator — gravitational antennas
[IFSI-83-1] 05 p0677 N84-14451
Optimal delay estimation in a multiple sensor array having spatially correlated noise
[AD-A133810] 05 p0734 N84-14820
Adaptive arrays for multiple simultaneous desired signals
[AD-A133486] 06 p0824 N84-15373
Performance characteristics of passive coherence estimators
[AD-A133209] 06 p0829 N84-15396
Analysis of adaptive differential PCM (Pulse-Code Modulator) of a stationary Gauss-Markov input
[AD-A136518] 09 p1299 N84-18492
Effects of mutual coupling on the performance of adaptive arrays
[AD-A136063] 09 p1309 N84-18560

An adaptive, noise tolerant, frequency extrapolation algorithm for diffraction corrected ultrasound tomography
[AD-A136455] 09 p1375 N84-18982
The Telecommunications and Data Acquisition Report
[NASA-CR-173263] 10 p1473 N84-19621
Signal-to-noise ratio and combiner weight estimation for symbol stream combining 10 p1474 N84-19630
Enhanced radio frequency carrier margin improvements for an array of receiving systems with unequal predetection signal-to-noise ratios 10 p1475 N84-19637
Some signal processing methods based on covariance estimates of signal and noise
[FOA-C-30343-E1] 10 p1484 N84-19701
Ambiguity surface statistics and fluctuations
[AD-A137499] 10 p1570 N84-20284
Detection of multiple sinusoids using an adaptive cascaded structure
[DE84-005521] 11 p1645 N84-20753
On the stability of signal detection
[AD-A138525] 12 p1808 N84-21785
A comparison of signal-to-noise ratios for near-infrared detectors
[AD-A138127] 12 p1907 N84-22426
Target super-resolution compensation for coherent airborne radar utilizing spread spectrum waveforms
[AD-A138545] 13 p1962 N84-22868
Evaluation of the comprehension of non-continuous, sped-up vocoded speech: A strategy for coping with fading HF (High Frequency) channels
[AD-A139650] 13 p1982 N84-22871
The detection of nonplanar surfaces in visual space
[AD-A138761] 14 p2185 N84-24093
Acoustic-optic spectrometer. 1: Noise contributions and system consideration
[NASA-TM-85613] 14 p2221 N84-24326
Exposure to space radiation of high-performance infrared multilayer filters and materials technology experiments (A0056) 15 p2277 N84-24678
Expected energy method for electro-optical SNR calculations
[AD-A139864] 15 p2398 N84-25369
Techniques and instrumentation for the measurement of transient sound energy flux
[ISVR-TR-122A] 15 p2404 N84-25427
Development of an interferometric technique for reduction of background radiation at 10 micrometers
[AD-A140081] 15 p2408 N84-25455
Cut-off rate calculations for the outer channel in a concatenated coding system
[NASA-CR-173612] 16 p2541 N84-26312
Data analysis techniques: Spectral processing 17 p2695 N84-27168
Temperature and humidity profiles in the atmosphere from spaceborne lasers: A feasibility study 17 p2716 N84-27292
On Io, all that flickers is not cold
[NASA-CR-173447] 17 p2777 N84-27631
An iterative method for restoring noisy blurred images
[AD-A142201] 19 p3016 N84-29122
Frequency domain non-linear signal processing apparatus and method for discriminationd against non-Gaussian interference
[AD-D011068] 19 p3017 N84-29126
An experimental investigation of the improvement in the reception of TM (Transverse Magnetic)-polarized LF (Low-Frequency) waves with a two-element spaced array
[AD-A142478] 20 p3175 N84-30159
Computer analysis of phased array far-field patterns for non-symmetrical feed networks
[AD-P003502] 21 p3383 N84-31470
Threshold signals for detector having stabilization of false alarm probability 22 p3567 N84-32590
Symbol-stream combiner: Description and demonstration plans 22 p3574 N84-32632
Development of the model 52500 strain-inertial seismometer system (prototype)
[AD-A143572] 22 p3624 N84-32961
Phase-only optical filter for use in an optical correlation system
[AD-D011093] 22 p3657 N84-33187
Approximate methods for obtaining the complex natural electromagnetic oscillations of an object
[AD-A143913] 23 p3821 N84-34229
User requirements 23 p3841 N84-34368
Design criteria for space based laser ranging systems 24 p3908 N84-34751
Signal-to-noise ratio for the wide field-planetary camera of the Space Telescope
[NASA-TM-86472] 24 p3983 N84-35235

SIGNAL TRANSMISSION
NT CODE DIVISION MULTIPLE ACCESS
NT DATA TRANSMISSION
NT FREQUENCY DIVISION MULTIPLE ACCESS
NT IONOSPHERIC PROPAGATION
NT MICROWAVE ATTENUATION
NT MICROWAVE TRANSMISSION
NT MULTIPATH TRANSMISSION
NT MULTIPLE ACCESS
NT RADAR TRANSMISSION
NT RADIO TELEMETRY
NT RADIO TRANSMISSION
NT SATELLITE TRANSMISSION
NT SHORT WAVE RADIO TRANSMISSION
NT SINGLE CHANNEL PER CARRIER TRANSMISSION
NT SINGLE SIDEBAND TRANSMISSION
NT TELEMETRY
NT TELEVISION TRANSMISSION
NT TRANSHORIZON RADIO PROPAGATION
Simulation of closure: Effects on crack detection probability and stress distributions
[DE83-009309] 01 p0097 N84-10833
Great prospects for fiber optics sensors
[NASA-TM-77357] 02 p0293 N84-11922
Light deflection and time delay in the solar gravitational field 05 p0746 N84-14900
Multiple paths on the ocean surface 06 p0870 N84-15866
USSR rept.: Electronics and electrical engineering. Radar signal reception against background of random interference
[JPRS-UEE-84-001] 07 p0986 N84-16389
OMEGA global radionavigation: A guide for users
[PB84-134345] 10 p1427 N84-19331
Measurement of stress with acoustic waves 11 p1728 N84-21273
Navigation system and method
[NASA-CASE-GSC-12508-1] 13 p1929 N84-22546
Doppler radar having phase modulation of both transmitted and reflected return signals
[NASA-CASE-MSC-18675-1] 13 p1975 N84-22820
Transmitting two-level balanced code within the bandwidth of straight binary code-transmission 13 p2039 N84-23231
Improving slipring performance 15 p2347 N84-25066
Estimation of the parameters of an unmodulated carrier signal disturbed by complex-multiplicative and additive Gaussian noise
[ESA-TT-737] 16 p2482 N84-25914
A note on the use of coherent integration in periodogram analysis of MST radar signals 17 p2695 N84-27163
Speckle statistics in radar images of sea surface obtained with horizontal polarization 18 p2823 N84-27921
Digital transmission: 68MBit/s pal field trial system
[BBC-RD-1984/5] 21 p3381 N84-31455
USSR report: Electronics and electrical engineering
[JPRS-UEE-84-006] 22 p3565 N84-32580
In-flight accuracy and coverage tests of ESM- and ECM-systems 24 p3849 N84-34412
Doppler lidar results from the San Gorgonio Pass experiments 24 p3928 N84-34866

SIGNALS
On ARMA (autoregressive moving average) representations for white noise in a Markovian environment
[AD-A136354] 09 p1386 N84-19054
Detection of multiple sinusoids using an adaptive cascaded structure
[DE84-005521] 11 p1645 N84-20753
A new adaptive antenna system for coherent signals and interference
[AD-A144355] 24 p3886 N84-34683
Spatio-temporal spectral analysis by eigenstructure methods
[AD-A144361] 24 p3951 N84-35017

SIGNATURE ANALYSIS
The Mimas ghost revisited: An analysis of the electron flux and electron microsignatures observed in the vicinity of Mimas at Saturn
[NASA-CR-174596] 03 p0484 N84-13056
Mechanical signature analysis 10 p1505 N84-19843
LANDSAT-4 image data quality analysis
[E84-10134] 16 p2508 N84-26082
Analysis of the quality of image data acquired by the LANDSAT-4 Thematic Mapper and Multispectral Scanners
[E84-10137] 16 p2508 N84-26085
Comparative assessment of LANDSAT-D MSS and TM data quality for mapping applications in the Southeast
[E84-10138] 16 p2508 N84-26086
Field data observed during the geological excursion in the west-central region of the Sul-Riograndе Shield
[E84-10146] 16 p2508 N84-26094
Applications of laser for climatology and atmospheric research
[BLEV-R-85.169-5] 16 p2529 N84-26237
Fundamentals of spaceborne remote sensing: Applications of lasers, volume 1 16 p2529 N84-26238
Detection of shocked atomic gas in the Kleinmann-Low nebula
[NASA-TM-85967] 16 p2574 N84-26523
NGC 2024: Far-infrared and radio molecular observations
[NASA-TM-85954] 16 p2575 N84-26524
A search variability in the UV spectrum of Pi Aquarii and Fe 3 shell lines of Be stars
[NASA-CR-173611] 16 p2575 N84-26527
Voyager 1 imaging and IRIS observations of Jovian methane absorption and thermal emission: Implications for cloud structure
[NASA-CR-173567] 16 p2579 N84-26544
Solar control of winter mesospheric echo occurrence at Poker Flat, Alaska 17 p2686 N84-27102
Seasonal variation of spectral brightness coefficients for barley and rye 19 p2977 N84-28872
Analysis of normalized radar cross section (sigma-O) signature of Amazon rain forest using SEASAT scatterometer data
[E84-10166] 19 p3039 N84-29276
The effect of point-spread function interaction with radiance from heterogeneous scenes on multitemporal signature analysis — soybean stress 20 p3211 N84-30400
Radar backscattering of forest stands 23 p3767 N84-33680

SIGNATURES
NT INFRARED SIGNATURES
NT MAGNETIC SIGNATURES
NT RADAR SIGNATURES
NT SPECTRAL SIGNATURES
Optical time-domain reflectometer performance and calibration studies
[PB84-110964] 09 p1390 N84-19082
The Shock and Vibration Digest, volume 15, no. 6
[AD-A131730] 10 p1505 N84-19841
Principal components as a method for atmospherically correcting coastal zone color scanner data
[AD-P003124] 16 p2533 N84-26265
Auger characterization of new and aged dispenser cathode surfaces
[AD-A140754] 17 p2663 N84-26988
An assembly language program for calculating random decrement signatures
[AD-A143908] 23 p3815 N84-34195

SIGNIFICANCE
Algorithm for computing significance levels using the Kolmogorov-Smirnov statistic and valid for both large and small samples
[DE84-001586] 04 p0592 N84-13809
Evaluation of the significance of the data on the 160.01 min oscillations of the Sun treated by the superposed epoch analysis 09 p1408 N84-19203
Calculations of repeatability — of experimental results
[NPL-RS(EXT)-69] 12 p1896 N84-22347

SIGNS (SYMBOLS)
U SYMBOLS

SIGNS AND SYMPTOMS
A software package for administering and monitoring the Environmental Symptoms Questionnaire (ESQ-3)
[AD-A140286] 16 p2536 N84-26293

SIKORSKY AIRCRAFT
NT H-60 HELICOPTER
NT SH-3 HELICOPTER
NT UH-60A HELICOPTER

SIKORSKY HSS-2 HELICOPTER
U SH-3 HELICOPTER

SILANES
NT CHLOROSILANES
Structural gradient in the silane coupling agent layers and its influence on the mechanical and physical properties of composites
[AD-A130864] 01 p0031 N84-10197
Hydrothermal stability of gamma-aminopropyltriethoxysilane coupling agent on ground silicon powder and E-glass fibers
[AD-A130904] 01 p0037 N84-10234
Effects of surface area and pore size upon liquid chromatographic fractionations of polystyrene oligomers using ethylphenyl derivatized silicas
[DE83-014832] 01 p0051 N84-10327
Amorphous silicon-carbon films
[DE83-018077] 03 p0347 N84-12259
Free-radical and ion chemistry of volatile silanes, germanes, and phosphines
[DE83-016389] 03 p0350 N84-12277
Structure and vibrational spectra of a model of a-Si:H with periodic boundary conditions
[DE83-015245] 03 p0367 N84-12390
The effect of moisture on the physical and durability properties of methyl methacrylate polymer concrete
[DE83-016733] 03 p0390 N84-12541

Effect of silane fraction on the optoelectronic and photovoltaic properties of RF-glow-discharge a-SiH prepared from SiH4 + H2 mixtures
[DE83-016730] 04 p0615 N84-14058
Electronic properties of amorphous silicon (a-SiH)
[BMFT-FB-T-83-154] 05 p0699 N84-14590
Synthesis of N-substituted silanesamines: Monomeric precursors of silicon carbide-nitride fibers
06 p0929 N84-16033
A comprehensive model to determine the effects of temperature and species fluctuations on reaction rates in turbulent reaction flows
[NASA-CR-175365] 08 p1155 N84-17520
Durability and failure analyses of a silane treated Alpha-Al2O3/Polyethylene joint in wet environment
[AD-A136089] 09 p1333 N84-18705
Homogeneous reactions of hydrocarbons, silane, and chlorosilanes in radiofrequency plasmas at low pressures
[NASA-TP-2301] 11 p1626 N84-20643
Laser-induced etching of insulators using a dc glow discharge in silane
[DE84-007570] 14 p2151 N84-23688
An investigation of chemically-induced improvement in saturation moisture characteristics of epoxies
[NASA-TM-85826] 18 p2809 N84-27834
New approaches to the synthesis of novel organosilanes
[AD-A141803] 19 p2985 N84-28913
Organosilane polymers, 8
[AD-A141627] 19 p2999 N84-29004
Flat-plate solar array project: Experimental process system development unit for producing semiconductor-grade silicon using the silane-to-silicon process
[NASA-CR-173762] 19 p3049 N84-29348
Preliminary study of a radiantly heated fluidized bed for the production of high purity silicon
[NASA-CR-173758] 19 p3050 N84-29352
Survey of the preparation, purity, and availability of silanes
[DE84-000090] 20 p3163 N84-30084
Low cost solar array project. Experimental process system development unit for producing semiconductor-grade silicon using the silane-to-silicon process
[NASA-CR-173936] 23 p3789 N84-34034

SILENCERS
The performance of small jet noise silencers for industrial applications
[PB83-234047] 02 p0230 N84-11507
Compressed air exhaust silencers, summary
[CETIM-11-H-275] 21 p3414 N84-31650

SILICA
U SILICON DIOXIDE

SILICA GEL
Sol-gel transition in simple silicates, 2
[DE83-013975] 01 p0051 N84-10329
Light-scattering studies of silica aerogels
[DE83-015412] 02 p0201 N84-11308
Transparent aerogels for low-conductance windows
16 p2517 N84-26157
Contributions towards analytical chromatography
[BLL-M-29666-(5828.4)] 24 p3880 N84-34579

SILICA GLASS
Theoretical calculation of the temperature dependence of thermal conductivity of glass
[CSIR-TRANS-1686] 01 p0049 N84-10314
Vibrational spectra of single and mixed alkali pentasilicate glasses
[AD-A130527] 01 p0049 N84-10318
Thermal contacts between metal and glass for use at cryogenic temperatures
[NASA-TM-85858] 12 p1907 N84-22423
Ceramic glazes: Basic information
[PB84-150663] 14 p2130 N84-23772
Reaction kinetics in glass melts. Corrosion of SiO-2.
TEXUS 4 project 18 p2819 N84-27900

SILICATES
NT ALUMINUM SILICATES
NT ANDESITE
NT GARNETS
NT PYROXENES
NT SODIUM SILICATES
NT YTTRIUM-IRON GARNET
NT ZEOLITES
Mechanisms of wear in single and two-phase materials
[DE83-014651] 01 p0091 N84-10592
Optical studies of dynamical process in disordered materials
[DE84-002048] 07 p1083 N84-17042
Vertical sections of oxygen, phosphate, silicate, nitrate and nitrite from the NORPAX Shuttle Experiment
[PB84-136759] 11 p1692 N84-21036
A review of classical silicate-rock analysis and recommended modifications of classical methods of analysis
[USGS-CIRC-864] 14 p2175 N84-24027
Heterogeneous condensation of ice mantle around silicate core grain in molecular cloud
16 p2570 N84-26491
The 3 micron ice band 16 p2570 N84-26494
Origin of amorphous interstellar grains
16 p2571 N84-26503
Heterogeneous condensation of ice mantle around silicate core grain in molecular cloud
18 p2948 N84-28689
Argillic alteration associated with the Amethyst Vein System, Creede Mining District, Colorado
21 p3441 N84-31832
Metal-silicate relationships in differentiated meteorites
[NASA-CR-173929] 23 p3843 N84-34384

SILICIDES
Silicide formation and Schottky barrier of rare-earth metals on SI
[AD-A131750] 03 p0452 N84-12975
Silicide formation and Schottky barrier of rare-earth metals on SI
[AD-A131749] 03 p0452 N84-12976
Silicide formation and Schottky barrier of rare-earth metals on SI
[AD-A131748] 03 p0452 N84-12977
Far-infrared studies on superconductors and heat-capacity studies on liquid crystals
[DE84-001123] 05 p0756 N84-14957
Comparison of thermal, line-source electron beam and CW laser annealing for the fabrication of ErSi/sub 2 Schottky barrier on Si
[DE84-003105] 07 p1081 N84-17031
Defects at electrode-oxide and electrode-silicon interfaces in VHSI device structures
[AD-A140614] 17 p2663 N84-26990
Interfacial reactions of nickel and cobalt thin films on silicon 24 p3959 N84-35064

SILICON
Dopant incorporation during nonequilibrium solidification
[DE83-014052] 01 p0154 N84-11014
Mass spectrometric analysis of silicon for solar cells
[BMFT-FB-T-83-134] 02 p0192 N84-11244
Technology of thin silicon foils in respect to the fabrication of monolithic integrated sensors
[BMFT-FB-T-83-089] 02 p0206 N84-11347
Photoconductive power switches
[DE83-015239] 02 p0224 N84-11469
Microelectronic bending and pressure sensors
[BMFT-FB-T-83-100] 02 p0225 N84-11476
Fatigue-crack propagation in viscous environments
[DE83-011741] 02 p0232 N84-11520
Kinetics of solid-phase crystallization in ion-implanted and deposited amorphous-silicon films
[DE83-015499] 02 p0300 N84-11967
Silicon liquid phase epitaxy with solution transport by centrifugal forces and investigation and characterization of silicon epitaxial layers by transmission electron microscopy
[BMFT-FB-T-83-097] 02 p0300 N84-11969
Research on diffusion and complex behavior of elements forming recombination centers in silicon by means of optical and electrical measurement techniques
[BMFT-FB-T-83-117] 02 p0300 N84-11971
Photovoltaics advanced research and development bibliography
[DE83-009399] 02 p0302 N84-11983
Stress production and relief in the gold/silicon eutectic die-attach process
[DE83-015230] 03 p0369 N84-12400
Silicide formation and Schottky barrier of rare-earth metals on SI
[AD-A131750] 03 p0452 N84-12975
Silicide formation and Schottky barrier of rare-earth metals on SI
[AD-A131749] 03 p0452 N84-12976
Silicide formation and Schottky barrier of rare-earth metals on SI
[AD-A131748] 03 p0452 N84-12977
Predevelopment of IR-CCD components
[BMFT-FB-T-83-133] 03 p0456 N84-13001
Microgravity silicon zoning investigation
[NASA-CR-170919] 04 p0488 N84-13207
Development and fabrication of a high current, fast recovery power diode
[NASA-CR-168196] 04 p0524 N84-13443
Collapsible photovoltaic-concentrator array portable power from the Sun
[DE84-000713] 04 p0558 N84-13677
Effects of compensation on light-induced metastable defects in aSi:H
[DE83-016696] 04 p0558 N84-13680
Update of pulsed-laser processing technology for high-efficiency silicon solar cells
[DE84-000638] 04 p0559 N84-13684
Radiation damage in silicon detectors
[DE84-001480] 04 p0614 N84-14056
Proceedings of the US Department of Energy Photovoltaics Program Annual Review
[DE83-010325] 05 p0699 N84-14589
Annealing of interstitial loops in arsenic implanted silicon
[DE84-000384] 05 p0755 N84-14953
Thin N-I-P radiation resistant solar cells
[NASA-CR-168284] 06 p0873 N84-15682
Beam processing for high-efficiency Si solar cells
[DE84-002059] 06 p0874 N84-15690
Determination of ionization rates in the principal crystallographic directions in silicon
[AD-A133513] 06 p0923 N84-15999
Clustering model in n-doped many-valley semiconductors
[INPE-2911-PRE/424] 07 p1079 N84-17015
Silicon millimeter wave devices by MBE (Molecular Beam Epitaxy)
[AD-A134419] 07 p1080 N84-17025
Effects of light and modulation frequency on spin-dependent trapping at silicon grain boundaries
[DE84-002107] 07 p1082 N84-17035
Method and apparatus for the rapid determination of gases, oxygen in particular, and of the combined forms in which they are present in metals
[BLL-OA-TRANS-3127-(6196.3)]
08 p1129 N84-17340
The practical use of data as to the solution enthalpies of molten Fe-V-Si
[BLL-M-35430-(5828.4)] 08 p1129 N84-17342
Studies of silicon refractory metal interfaces: Photoemission study of interface formation and compound nucleation
[AD-A135340] 08 p1131 N84-17358
Synthesis of phosphorus-nitrogen polymers using Si-N-P reagents
[AD-A135224] 08 p1137 N84-17392
High field transport of free carriers at the Si-SiO2 interface
[AD-A135338] 08 p1235 N84-18071
Investigations on the system boron-carbon silicon
[NASA-TM-77375] 09 p1275 N84-18324
Atomic absorption spectrophotometric methods for the determination of phosphorous and silicon in steel
[DE84-002826] 09 p1286 N84-18395
Double-injection, deep-impurity switch development
[NASA-CR-168335] 09 p1306 N84-18536
Deep diode arrays for X-ray detection
[NASA-CR-175178] 09 p1306 N84-18537
The GOES X-ray imager feasibility demonstration
[PB84-111970] 09 p1319 N84-18614
Picosecond laser pulse interactions with metallic and semiconductor surfaces
[AD-A135693] 09 p1395 N84-19112
A comparative thermodynamic analysis of impurity incorporation in vapor phase epitaxial InP and GaAs
[AD-A135739] 09 p1395 N84-19113
Fundamental radiation damage processes in silicon
[AD-A136033] 09 p1396 N84-19119
In situ laser measurements of silicon CVD
[DE84-004148] 10 p1501 N84-19809
Development and prototype production of photovoltaic energy supply systems
[BMFT-FB-T-83-238] 10 p1531 N84-20025
Investigation of silicon materials for solar cells. Part 1: Segregation and gettering properties of certain contaminations. Part 2: Measurement of electrical parameters
[BMFT-FB-T-83-204] 10 p1531 N84-20026
Temperature compensation and shunt calibration of semiconductor pressure transducers
[AD-P002686] 11 p1658 N84-20821
Voltage controlling mechanisms in low resistivity silicon solar cells: A unified approach
[NASA-TM-83612] 11 p1673 N84-20916
A probabilistic analysis of silicon cost
[NASA-CR-173461] 12 p1801 N84-21741
Solar cell metallization: Historical perspective
12 p1838 N84-21981
Accelerated degradation of silicon metallization systems 12 p1838 N84-21983
Optimization of transparent electrode for solar cell and chemical vapor deposition of amorphous silicon
[DE83-017780] 12 p1843 N84-22014
The applications of silicon liquid crystal light valves to optical data processing: A review
12 p1905 N84-22409
Research and development on high sensitivity infrared detectors, phase 3, VQM
[BMFT-FB-W-83-032] 12 p1909 N84-22436

Characterization of grain boundaries in silicon
[NASA-CR-173459] 12 p1912 N84-22460
Bulk formation of metallic glasses and amorphous silicon from the melt
[NASA-CR-171012] 13 p1963 N84-22752
The effect of diffusion induced lattice stress on the open-circuit voltage in silicon solar cells
[NASA-TM-83667] 13 p2008 N84-23027
Measurement techniques for high-resistivity detector-grade silicon
[PB84-155902] 14 p2149 N84-23877
Observations of damage and transport of hydrogen in ion bombarded polycrystalline silicon
[DE84-008035] 14 p2243 N84-24486
CO-2 laser heating of silicon and applications
[DE84-008273] 15 p2339 N84-25042
Defects at electrode-oxide and electrode-silicon interfaces in VHSI device structures
[AD-A140814] 17 p2663 N84-26990
Transformation of Ada program units into silicon
[AD-A141004] 18 p2833 N84-27986
A review of the silicon material task
[NASA-CR-173743] 18 p2866 N84-28210
Environmental, health and safety assessment of photovoltaics
[NASA-CR-173739] 18 p2877 N84-28267
Silicon foils growth by interface-controlled crystallization 18 p2937 N84-28628
The S-Web technique for high-speed growth of Si sheets 18 p2937 N84-28629
Nonequilibrium crystal growth during laser annealing of silicon 18 p2939 N84-28639
Structural characterization of solar silicon 18 p2939 N84-28640
A high-speed characterization technique for solar silicon 18 p2939 N84-28641
Defects in high speed growth of EFG silicon ribbon 18 p2939 N84-28642
Electrical and structural characterization of web dendrite crystals 18 p2939 N84-28643
Maximization of growth rates during Czochralski pulling 18 p2940 N84-28646
Segregation of impurities in directionally solidified silicon 18 p2940 N84-28647
Effects of non-equilibrium solidification on the material properties of brick silicon for photovoltaics 18 p2940 N84-28648
Band structure effects in the electronic properties of solids assessible in neutron scattering studies
[DE84-008557] 18 p2941 N84-28654
Flat-plate solar array project: Experimental process system development unit for producing semiconductor-grade silicon using the silane-to-silicon process
[NASA-CR-173762] 19 p3049 N84-29348
Preliminary study of a radiantly heated fluidized bed for the production of high purity silicon
[NASA-CR-173758] 19 p3050 N84-29352
High energy channeling and its applications
[DE84-007251] 19 p3103 N84-29715
Measurement techniques using ultrashort optical pulses
[DE84-009241] 19 p3105 N84-29728
Method and apparatus for producing high purity silicon
[DE84-011087] 20 p3163 N84-30090
New phase transition in Si and GaAs exposed to picosecond laser pulses 20 p3266 N84-30666
Silicon crystal growing by oscillating crucible technique
[DE84-011038] 20 p3309 N84-31019
A new silicon-on-sapphire MIL-STD-1750A microprocessor
[AD-P003551] 21 p3334 N84-31155
The friction behavior of semiconductors Si and GaAs in contact with pure metals
[NASA-TM-83779] 22 p3558 N84-32531
Polycrystalline silicon study: Low-cost silicon refining technology prospects and semiconductor-grade polycrystalline silicon availability through 1986
[NASA-CR-173897] 22 p3662 N84-33213
Infrared nonlinear optics 22 p3682 N84-33346
Electronic properties of amorphous silicon dioxide 22 p3683 N84-33351
Development of a polysilicon process based on chemical vapor deposition, phase 1 and phase 2
[NASA-CR-173957] 23 p3786 N84-34015
Stress studies in EFG
[NASA-CR-173960] 23 p3787 N84-34018
Silicon solar cell process development, fabrication and analysis
[NASA-CR-173950] 23 p3787 N84-34020
Development of metallization process: FSA project, cell and module formation research area
[NASA-CR-173951] 23 p3788 N84-34022
Surface property modification of silicon
[NASA-CR-173952] 23 p3788 N84-34023
Investigation of test methods, material properties and processes for solar cell encapsulants
[NASA-CR-173940] 23 p3789 N84-34029
Development of metallization process. FSA project, cell and module formation research area
[NASA-CR-173959] 23 p3789 N84-34030
Process Research of Polycrystalline Silicon Material (PROPSM)
[NASA-CR-173935] 23 p3789 N84-34033
A model of the performance characteristics of silicon-gallium infrared detectors for low background applications
[AD-A143932] 23 p3825 N84-34256
Crystallization of cubic boron nitride in the presence of silicon
[CSIR-TRANS-1753] 23 p3829 N84-34289
Optical and electrical characterization of multiply doped silicon: A study of the Si:(In, Al) system
[AD-A143820] 23 p3830 N84-34294
San Marco D/L solar array system design and performance
[NASA-TM-86125] 24 p3916 N84-34795
Process and apparatus for growing a crystal ribbon
[NASA-CASE-NPO-15629-1] 24 p3966 N84-35113
An analysis of the helium-weak stars HD 144334 24 p3976 N84-35182

SILICON ALLOYS

Electrochemical characteristics of lithium-silicon alloy electrodes for high-temperature-battery applications
[DE83-014343] 01 p0039 N84-10244
Fundamental research directed to advanced high temperature coating systems beyond the current state-of-the-art systems
[AD-A131618] 02 p0194 N84-11281
Formation of surface layers during oxidation of a Fe-Mn-Si alloy
[DE83-009495] 03 p0354 N84-12302
Atomic transport in metallic glasses
[AD-A136363] 09 p1282 N84-18373
Fatigue resistance and microstructure of experimental dual phase Fe/2Si/0.1C steel
[DE84-004314] 11 p1635 N84-20692
High-temperature oxidation of alpha nickel-silicon. 1: Reaction kinetics; thermogravimetry
[MRL-R-887] 12 p1796 N84-21717
Segregation of Si and Sn to the Fe(100) surface in the Fe-6.2% Si-0.03% Sn alloy
[AD-A138154] 12 p1798 N84-21726
Transport properties of amorphous silicon-germanium alloy films. Volume 2: Appendices
[DE84-006879] 15 p2414 N84-25495
Transport properties of amorphous silicon-germanium alloy films. Volume 1: Technical summary
[DE84-006878] 15 p2414 N84-25497
Application of HVEM in phase transformation research
[DE84-009226] 19 p2996 N84-28982
Analysis of localized microstructural changes in dynamically consolidated metal powders
[DE84-006298] 20 p3154 N84-30026
High temperature X-ray decomposition studies of alpha phase nickel-silicon and beta phase copper-aluminum-nickel alloys 21 p3364 N84-31338
Behavior of Ni-Cr-Si coating alloys in Na2SO4, V2O5 and mixed salt hot corrosion
[DE84-012386] 21 p3367 N84-31363

SILICON CARBIDES

Amorphous silicon-carbon films
[DE83-018077] 03 p0347 N84-12259
Fabrication and properties of multilayer structures
[AD-A131934] 03 p0451 N84-12969
Characterization of ceramic vane materials for 10KW turboalternator
[AD-A132505] 04 p0486 N84-13196
Fabrication of SiC, Si3N4 and AlN combustion synthesis
[DE84-001766] 05 p0660 N84-14339
Optimization of SiC-based materials
[BMFT-FB-T-83-161] 05 p0661 N84-14343
Silicon carbide, a high temperature semiconductor
[NASA-TM-83514] 05 p0752 N84-14932
Production and characterization of beta-silicon carbide and alpha-silicon nitride whiskers for ceramic matrix composites
[LA-9650-MS] 06 p0797 N84-15197
Fabrication and properties of multilayer structures
[NASA-CR-174506] 06 p0922 N84-15997
Synthesis of N-substituted silaneamines: Monomeric precursors of silicon carbide-nitride fibers 06 p0929 N84-16033
Transformation toughened and whisker reinforced ceramics
[DE84-003281] 07 p0979 N84-16346
Electron spectroscopy study of SiC
[AD-A134352] 07 p1080 N84-17023
Ion beam modification of ceramics
[DE84-003302] 08 p1138 N84-17403
Stability and electrokinetic potential of silicon carbide suspensions in aqueous organic media
[NASA-TM-77428] 10 p1454 N84-19494
Development of the VLS process for SiC whisker growth
[DE84-004376] 11 p1628 N84-20652
Recent trends and theoretical background in sintering of silicon carbide ceramics
[NASA-TM-77376] 11 p1636 N84-20696
Increased voltage photovoltaic cell
[NASA-CASE-NPO-16155-1] 11 p1673 N84-20917
Analysis of stress-strain, fracture and ductility behavior of aluminum matrix composites containing discontinuous silicon carbide reinforcement
[NASA-TM-83610] 12 p1789 N84-21686
Contact-stress analysis of elastic-viscoelastic interface conditions
[AD-A138834] 13 p1964 N84-22759
Effect of fatigue and thermal loads on silicon carbon fiber reinforced glass matrix composites
[DE84-007464] 14 p2121 N84-23710
Ceramic tube materials and processing development
[PB84-151653] 14 p2135 N84-23795
Fundamental studies of growth, doping and transformation in beta silicon carbide
[AD-A139179] 14 p2241 N84-24458
The impact resistance of SiC and other mechanical properties of SiC and Si3N4
[NASA-CR-165325] 15 p2301 N84-24809
Silicon carbide fiber/mullite composites from rapidly solidified aluminosilicate powder
[AD-A140529] 16 p2469 N84-25825
Microstructure and orientation effects on properties of discontinuous silicon carbide/aluminum composites
[NASA-TP-2302] 17 p2617 N84-26749
Fundamental studies of growth, doping and transformation in beta silicon carbide
[AD-A140924] 17 p2769 N84-27582
Development of reaction-bonded silicon carbide (SiSiC)-ceramics
[JUEL-1873] 18 p2819 N84-27901
Organosilane polymers. 5: Hydrosilyl-modified polycarbosilane precursors for silicon carbide
[AD-A141546] 19 p2999 N84-29002
Organosilane polymers. 6: Branched polysilahydrocarbon precursors for silicon carbide
[AD-A141558] 19 p2999 N84-29003
Organosilane polymers, 8
[AD-A141627] 19 p2999 N84-29004
Ion implantation, ion beam mixing and annealing studies of metals in Al2O3, SiC and Si3N4
[DE84-012336] 20 p3157 N84-30052
Property screening and evaluation of ceramic turbine materials
[AD-A142739] 21 p3343 N84-31210
Improvements in mechanical properties in SiC by the addition of TiC particles
[DE84-012352] 21 p3358 N84-31297
Comparative studies of vapor and liquid-phase impregnation of porous silicon nitride and silicon carbide materials
[DE84-012867] 21 p3359 N84-31309
Method for forming fibrous silicon carbide insulating material
[DE84-014658] 22 p3545 N84-32442
The controlling reactions during interaction between silicon and carbon
[BLL-M-35673-(5828.4)] 22 p3545 N84-32444
Ceramic component manufacturing technology development — silicon carbide tubing for industrial waste heat recovery
[PB84-215276] 22 p3561 N84-32550
Effects of applied pressure on hot-pressing of Beta-SiC
[NASA-TM-77397] 23 p3723 N84-33593
Silicon carbide material sintered bodies manufacturing
[NASA-TM-77586] 24 p3878 N84-34574
Sinterable ceramic powders from laser heated gas phase reactions and rapidly solidified ceramic materials
[AD-A144439] 24 p3889 N84-34627

SILICON COMPOUNDS

NT ALUMINUM SILICATES
NT ANDESITE
NT CHLOROSILANES
NT GARNETS
NT PYROXENES
NT QUARTZ
NT SILANES
NT SILICATES
NT SILICIDES
NT SILICON CARBIDES
NT SILICON DIOXIDE
NT SILICON NITRIDES
NT SILICON OXIDES

NT SODIUM SILICATES
NT YTTRIUM-IRON GARNET
NT ZEOLITES
Electronic properties of amorphous silicon (a-SI:H)
[BMFT-FB-T-83-154] 05 p0699 N84-14590
An investigation of the thermodegradation of ablative organic silicon resin
[AD-A135545] 08 p1137 N84-17397
Tunneling through amorphous silicon barriers
[AD-A135866] 09 p1395 N84-19110
Photoconductivity of alpha-Si-H in infrared range of spectrum 18 p2825 N84-27933
Low cost solar array project. Experimental process system development unit for producing semiconductor-grade silicon using the silane-to-silicon process
[NASA-CR-173936] 23 p0789 N84-34034
SILICON CONTROLLED RECTIFIERS
Road load simulator tests of the Gould phase 1 functional model silicon controlled rectifier ac motor controller for electric vehicles
[NASA-TM-83497] 10 p1529 N84-20016
SILICON DIOXIDE
NT QUARTZ
Hole trapping, recombination, and space charge in irradiated Sandia oxides
[DE83-015212] 03 p0454 N84-12966
Study of the physics of insulating films as related to the reliability of metal-oxide semiconductor devices
[AD-A133674] 05 p0754 N84-14944
Ion beam assisted deposition of SiO2
[AD-A136247] 09 p1278 N84-18342
Investigation of metallic impurities introduced into SiO/sub 2
[AD-A136008] 09 p1396 N84-19117
Photochemical conversion of H-2Os-3(CO)10(P-Donor) to H-2Oc-3(CO)9(P-Donor) in solution and on high surface area silica
[AD-A136991] 10 p1455 N84-19501
An evaluation of a hydrophobic silica pigment used as a water-repellent finish
[AD-A137369] 10 p1486 N84-19575
Chemical deposition of SiO2 on InP
[AD-A138355] 12 p1914 N84-22472
Measurement and calculation of parameters in the silox diffusion process — semiconductor devices
[EUT-83-E-133] 13 p2048 N84-23289
Achievements and plans of the Solar Thermal Advanced Research Center
[DE84-005480] 14 p2172 N84-24010
A study of the mechanics of radiation damage in fiber optical waveguides
[AD-A139560] 14 p2225 N84-24352
Adsorption of hydrocyanic acid on Lewis acid sites of silicon dioxide 17 p2620 N84-26767
Sputtered coatings for protection of spacecraft polymers
[NASA-TM-83706] 17 p2626 N84-26803
Damage thresholds of fused silica, plastics and KDP crystals measured with 0.6-ns 355-nm pulses
[DE84-009534] 18 p2847 N84-28080
Laser damage in porous-silica antireflection films
[DE84-009535] 19 p3030 N84-29216
Investigations to improve the stability of thermal oxides on polycrystalline and single crystalline silicon
[BMFT-FB-T-84-052] 19 p3113 N84-29780
Experimental studies of laterally seeded recrystallized polysilicon on silicon dioxide
[AD-A142382] 20 p3162 N84-30077
Opacification of high temperature fibrous insulation
[NASA-CR-166578] 21 p3356 N84-31285
Computer simulation of surface and film processes
[NASA-CR-173662] 21 p3419 N84-31682
A study of the drawing process for optical fibers
[AD-A142930] 21 p3498 N84-32171
Raman investigation of the rate of OH uptake in stressed and unstressed optical fibers
[AD-A143142] 21 p3498 N84-32172
SILICON FILMS
Plasma-initiated laser deposition of polycrystalline and monocrystalline silicon films
[DE84-005527] 13 p1998 N84-22953
Low temperature (150 to 250(0)C) deposition of n(+) and p(+) microcrystalline silicon for VLSI device contacts
[DE84-006474] 14 p2243 N84-24470
Investigation of noise in silicon avalanche photodiodes
[FI-14-TBR-11] 14 p2244 N84-24474
Technical use of solar energy. Part 1. Thin films solar cells
[BMFT-FB-T-83-298-PT-1] 15 p2362 N84-25172
Transport properties of amorphous silicon-germanium alloy films. Volume 1: Technical summary
[DE84-006878] 15 p2414 N84-25497
Preparation of thin amorphous silicon films for thin film solar cells
[BMFT-FB-T-84-018] 16 p2518 N84-26166
Manufacture of DPFC-DMS polymer in the SKG range
[NASA-CR-166276] 18 p2817 N84-27868
Microcrystalline silicon growth for heterojunction solar cells
[NASA-CR-173750] 18 p2869 N84-28216
Carbon, oxygen and their interaction with intrinsic point defects in solar silicon ribbon material: A speculative approach
[NASA-CR-173756] 18 p2870 N84-28221
Polycrystalline silicon sheets for solar cells by the improved spinning method 18 p2937 N84-28626
Orientation and morphology effects in rapid silicon sheet solidification 18 p2937 N84-28627
Low angle silicon sheet growth: A review of progress, problems and promise 18 p2938 N84-28631
Mathematical modelling of high-speed ribbbon systems: A case study of edge-defined film-fed growth 18 p2938 N84-28632
An improved analysis of the thermal buckling of silicon sheet 18 p2938 N84-28633
The effect of creep on the residual stresses generated during silicon sheet growth 18 p2938 N84-28634
Experimental aspects of the study of stress generating mechanisms in silicon sheet growth 18 p2938 N84-28635
High speed crystal growth by Q-switched laser melting 18 p2938 N84-28637
High-quality silicon films prepared by zone-melting recrystallization 18 p2939 N84-28638
Experimental studies of laterally seeded recrystallized polysilicon on silicon dioxide
[AD-A142382] 20 p3162 N84-30077
Silicon solar cells: Development and qualification of thin (50 to 100 micron) and large area (5 cm x 5 cm) high efficiency cells
[BMFT-FB-W-84-016] 21 p3436 N84-31798
Research Reports of the Faculty of Engineering, no. 31
[DEC/1983/31] 21 p3476 N84-32034
Improvement in quality of silicon-based amorphous films 21 p3477 N84-32041
Studies of hydrogenated amorphous silicon
[DE84-011886] 21 p3505 N84-32211
Low temperature epitaxial deposition of silicon by plasma enhanced CVD (Chemical Vapor Deposition)
[AD-A143208] 22 p3662 N84-33216
Nucleation and growth of N- and P-type microcrystals in low-temperature glow-discharge deposited silicon films
[DE84-013122] 22 p3667 N84-33246
Optical properties of amorphous silicon: Some problem areas
[DE84-701201] 24 p3964 N84-35102
SILICON JUNCTIONS
Monolithic ZnO SAW (Surface Acoustic Waves) structures
[AD-A135987] 09 p1309 N84-18557
SILICON NITRIDES
Charge characteristics of ion-implanted and annealed nitride/oxide/Si structures
[DE83-012625] 01 p0153 N84-11009
Characterization of ceramic vane materials for 10KW turboalternator
[AD-A132505] 04 p0486 N84-13196
Tensile strength of pressureless-sintered silicon nitride at elevated temperature
[NAL-TR-753] 04 p0548 N84-13611
Fabrication of SiC, Si3N4 and AlN combustion synthesis
[DE84-001766] 05 p0660 N84-14339
Production and characterization of beta-silicon carbide and alpha-silicon nitride whiskers for ceramic matrix composites
[LA-9650-MS] 06 p0797 N84-15197
Synthesis of N-substituted silaneamines: Monomeric precursors of silicon carbide-nitride fibers 06 p0929 N84-16033
Development of improved coating for advanced carbon-carbon components
[NASA-CR-173248] 07 p0967 N84-16265
Influence of temperature on fracture behavior and mechanical properties of hot-pressed silicon nitride with different sintering aids
[BMFT-FB-T-83-166] 07 p0980 N84-16349
Ceramic components for gas turbines, phase 2
[BMFT-FB-T-83-196] 08 p1105 N84-17183
Silicon nitride joining
[AD-A136547] 09 p1287 N84-18404
Sintering phenomena of non-oxide silicon compounds
[DE84-006599] 12 p1802 N84-21747
Grain boundary engineering of mechanical strength of silicon nitride (Si3N4)
[NASA-TM-77433] 14 p2119 N84-23699
Strength evaluation test of pressureless-sintered silicon nitride at room temperature
[NASA-TM-77394] 14 p2119 N84-23700
Development of silicon nitride gas turbine components, phase 2
[BMFT-FB-T-83-322] 15 p2282 N84-24591
Fabrication of highly dense SiN4 ceramics without additives by high pressure sintering
[NASA-TM-77425] 16 p2470 N84-25829
Crystallization of the glassy phase of grain boundaries in silicon nitride
[NASA-TM-77486] 16 p2560 N84-26421
Development of sintered Si3N4 for high performance thermomechanical applications
[AD-A140795] 17 p2627 N84-26807
Hot-pressed silicon nitride with various lanthanide oxides as sintering additives
[NASA-TM-77424] 19 p2985 N84-28916
Ion implantation, ion beam mixing and annealing studies of metals in Al2O3, SiC and Si3N4
[DE84-012336] 20 p3157 N84-30052
Joining silicon nitride based ceramics: A technical assessment
[DE84-011356] 20 p3164 N84-30092
Property screening and evaluation of ceramic turbine materials
[AD-A142739] 21 p3343 N84-31210
Comparative studies of vapor and liquid-phase impregnation of porous silicon nitride and silicon carbide materials
[DE84-012867] 21 p3359 N84-31309
Effect of crystallization of grain boundary phase on the high temperature strength of silicon nitride ceramics
[DE84-011788] 21 p3371 N84-31392
Cubic silicon nitride in iron-silicon steels
[BLL-M-35653-(5828.4)] 22 p3552 N84-32486
RF sputtered silicon and hafnium nitrides as applied to 440C steel
[NASA-TM-86662] 22 p3559 N84-32536
Sinterable ceramic powders from laser heated gas phase reactions and rapidly solidified ceramic materials
[AD-A144439] 24 p3889 N84-34827
SILICON OXIDES
NT QUARTZ
NT SILICON DIOXIDE
High-resolution electron-microscopy studies of native oxide on silicon
[DE83-014794] 01 p0155 N84-11018
Fabrication and properties of multilayer structures
[AD-A131934] 03 p0451 N84-12969
The excitation of SiO in circumstellar envelopes 03 p0462 N84-13041
Characterization of high-temperature vapor-phase species and vapor-solid interactions of import to combustion and gasification processes in the energy technologies
[DE83-015166] 04 p0494 N84-13242
Line-source E-beam crystallization of silicon-on-insulator films
[DE84-003218] 07 p0999 N84-16478
High field transport of free carriers at the Si-SiO2 interface
[AD-A135338] 08 p1235 N84-18071
Dependence of holographic grating formation upon interference pattern orientation in bismuth silicon oxide
[AD-A138099] 12 p1818 N84-21852
Measurement of thickness of SiO/sub 2 insulation layers in silicon structures with dielectric insulation 18 p2824 N84-27929
Coated silica shells: An advanced hydrogen storage system
[DE84-006986] 20 p3163 N84-30088
Influence of the interfacial layer on electrooptical properties of heterojunction solar cells
[DE84-013285] 22 p3618 N84-32925
Behavior of Al2O3 and SiO2 with heating in a Cl2 + CO stream
[NASA-TM-77487] 23 p3713 N84-33533
SILICON POLYMERS
NT SILICONES
NT SILOXANES
Use of radiation curing for the production of coated fabrics, profiles, flocking — vulcanizing
[BMFT-FB-T-83-176] 07 p0980 N84-16350
Investigation of structure-permeability relationships of silicone polymer membranes
[PB84-160977] 14 p2130 N84-23771
The need for application of dynamic mechanical analysis in the evaluation of interlayer materials
[AD-P003211] 17 p2594 N84-26824
Experimental studies of laterally seeded recrystallized polysilicon on silicon dioxide
[AD-A142382] 20 p3162 N84-30077
SILICON RADIATION DETECTORS
Imaging X-ray spectrometer
[NASA-CASE-GSC-12682-1] 23 p3749 N84-33765

SILICON SOLAR CELLS
U SOLAR CELLS
SILICON TRANSISTORS
Ballistic transport in submicron silicon mosfets
[AD-A142036] 19 p3111 N84-29766
SILICONE RUBBER
Development or a solar cell coverglass adhesive for space application
[BMFT-FB-W-83-029] 08 p1181 N84-17695
Mechanical properties of silicone rubber in a closed volume
[AD-A138129] 18 p2818 N84-27890
SILICONES
NT SILOXANES
Development of alternate silicone potting compounds. Volume 11: Influences of temperature, material variables and composition variables on the properties of substitute potting compounds
[DE83-013025] 01 p0051 N84-10326
Dielectric breakdown of MXB-71 phenolic and Sylgard 184/GMB silicone at high temperature
[DE83-016768] 02 p0201 N84-11312
Design analysis of advanced photovoltaic technologies
[DE84-000006] 04 p0557 N84-13675
Thermal properties of loose tube secondary coated optical fibres experimentally discussed by a relative light pulse delay technique 11 p1727 N84-21269
Stress relaxation of cellular silicone material, 1983
[DE84-007103] 12 p1802 N84-21749
Chemical bonding technology for terrestrial photovoltaic modules
[NASA-CR-173460] 12 p1842 N84-22008
Thermal endurance of silicone/glass sleeving by the cyclic electrical proof test method of IEC 216 (first report)
[ERA-82-91] 13 p1999 N84-22967
Thermal endurance of silicone/glass sleeving by the cyclic electrical proof test method of ICC 216 (second report)
[ERA-82-136] 13 p1999 N84-22968
Influence of the viscous environments on fatigue crack propagation in a lower strength steel
[DE84-008247] 14 p2128 N84-23761
Coated flexible laminate and method of its production
[NASA-CASE-GSC-12913-1] 15 p2301 N84-24807
Analysis of impurities forming recombination centers in silicon
[BMFT-FB-T-84-049] 19 p3113 N84-29779
Field repair of AH-16 helicopter window cutting assemblies
[NASA-TM-85831] 20 p3128 N84-29864
Some considerations on silicone oil in high-current and energy-disconnecting mechanisms
[DE84-011021] 20 p3180 N84-30203
Structural pressure sensitive silicone adhesives
[NASA-CASE-LAR-13270-1] 22 p3558 N84-32532
High temperature adhesive silicone foam composition, foam generating system and method of generating foam
[DE84-014315] 23 p3725 N84-33605
SILOS (MISSILE STORAGE)
U MISSILE SILOS
SILOXANES
Ultrahigh molecular weight aromatic siloxane polymers 06 p0930 N84-16042
Fluoroalkyl siloxanes as liquid-repellent fabric finishes. Part 3: The durability of the copolymers and comparisons with commercially available finishes
[AD-A136662] 10 p1467 N84-19579
Siloxane modifiers for epoxy resins
[AD-A136782] 10 p1467 N84-19582
Surface and bulk phase separations in block copolymers and their blends
[AD-A140020] 15 p2302 N84-24815
Fiber optic light guides based on polymer coated multicomponent glasses 21 p3487 N84-32100
SILTS
U SEDIMENTS
SILVER
NT SILVER ISOTOPES
Raman studies of CuTCNQ: Resonance Raman spectral observations and calculations for TCNQ ion-radicals
[AD-A130570] 01 p0037 N84-10231
Research and development for investigations of metallic adsorptions on metal surfaces by optical techniques complemented by dc resistivity and auger spectroscopy
[AD-A131739] 03 p0361 N84-12351
Surface science study of selective ethylene epoxidation catalyzed by the Ag(110) surface: Structural sensitivity
[DE84-001324] 04 p0494 N84-13246
Copper-manganese-base silverless brazing systems
[PB83-250100] 04 p0545 N84-13593
Bifunctional oxygen electrodes
[DE84-002774] 07 p0972 N84-16296
Scattering distribution characteristics of rare gases reflected from metal surface with absorbed gas molecules
[NAL-TR-761] 09 p1394 N84-19101
Transactions of the Industrial Institute of Electronics (selected articles)
[AD-A137204] 10 p1485 N84-19711
Theory of surface enhanced Raman scattering: A prospective view
[AD-A138320] 12 p1793 N84-21690
Surface plasmon-enhanced Raman scattering at thin silver films
[AD-A138321] 12 p1793 N84-21691
The potential dependence of surface plasmon-enhanced second harmonic generation at thin film silver electrodes
[AD-A138322] 12 p1793 N84-21692
Particle size effects on viscosity of silver pastes: A manufacturer's view 12 p1839 N84-21992
Structure of silver (100) and (111) single-crystal surfaces obtained by chemical polishing
[AD-A140148] 16 p2560 N84-25424
The selective epoxidation of ethylene catalyzed by silver: Mechanistic details revealed by single-crystal studies
[DE84-009987] 21 p3506 N84-32215
The interpretation of very low frequency Raman scattering from roughened silver electrodes: Clusters, cavities or complexes?
[AD-A143471] 22 p3657 N84-33184
Electron localization and superconductivity of very thin epitaxially grown ag films on ge(001)
[AD-A143469] 22 p3663 N84-33224
Process for forming pure silver ohmic contacts to N- and P-type gallium arsenide materials
[DE84-014515] 23 p3831 N84-34298
Development of metallization process: FSA project, cell and module formation research area
[NASA-CR-173996] 24 p3884 N84-34809
SILVER BROMIDES
Research Reports of the Faculty of Engineering, no. 31
[DEC/1983/31] 21 p3476 N84-32034
Effect of thermal irradiation from evaporation source to photo-darkening sensitivity of vacuum deposited AgBr film 21 p3477 N84-32038
SILVER COMPOUNDS
NT SILVER BROMIDES
NT SILVER HALIDES
NT SILVER OXIDES
Development of contact materials based on Ag made by powder metallurgy
[BMFT-FB-T-83-248] 10 p1483 N84-19557
SILVER HALIDES
NT SILVER BROMIDES
The 1982 International Congress of Photographic Science
[AD-A132372] 04 p0538 N84-13536
SILVER HYDROGEN BATTERIES
Preliminary silver-hydrogen cell test results 23 p3739 N84-33697
SILVER ISOTOPES
Measurement of diffusion constant by pulsed magnetic field gradient NMR in Ag26I13W4O16 RbAg4I5 and KAg4I5 11 p1743 N84-21373
SILVER OXIDE ZINC BATTERIES
U SILVER ZINC BATTERIES
SILVER OXIDES
Development of contact materials made by internal oxidation
[BMFT-FB-T-83-196] 07 p0977 N84-16332
SILVER ZINC BATTERIES
Additive for zinc electrodes — electric automobiles
[NASA-CASE-LEW-13286-1] 05 p0673 N84-14422
EMU battery/module service tool characterization study 23 p3739 N84-33696
SIMILARITIES
U ANALOGIES
SIMILARITY THEOREM
NT LAGRANGE SIMILARITY HYPOTHESIS
Chaos and order — stochastic processes in dynamical systems
[MC-TW-243/83] 07 p1067 N84-16930
Similar velocity profiles and integral quantities of a boundary layer on a rotating cylinder
[VKI-NT-148] 08 p1160 N84-17553
SIMPLEX METHOD
Thermal network correction by simplex optimization — spacecraft thermal balance testing 10 p1442 N84-19422
Sequential method of minimizing nonlinear function on simplex 21 p3484 N84-32060
SIMPLIFICATION
Special methods for spline functions associated to uniform grids
[HMI-B-381] 15 p2399 N84-25399
SIMULATED ALTITUDE
U ALTITUDE SIMULATION
SIMULATION
NT ACOUSTIC SIMULATION
NT ALTITUDE SIMULATION
NT ANALOG SIMULATION
NT ATMOSPHERIC ENTRY SIMULATION
NT COMPUTER SYSTEMS SIMULATION
NT COMPUTERIZED SIMULATION
NT CONTROL SIMULATION
NT DIGITAL SIMULATION
NT ENVIRONMENT SIMULATION
NT EXHAUST FLOW SIMULATION
NT FLIGHT SIMULATION
NT LANDING SIMULATION
NT MOTION SIMULATION
NT RHEOELECTRICAL SIMULATION
NT SPACE ENVIRONMENT SIMULATION
NT SYSTEMS SIMULATION
NT THERMAL SIMULATION
NT WEIGHTLESSNESS SIMULATION
A flight investigation of simulated data link communications during single-pilot IFR flight 03 p0313 N84-12046
Numerical simulation of vortex breakdown by the vortex-filament method 03 p0325 N84-12126
SPOT potential applications: An overview of the results of the simulation campaigns 03 p0396 N84-12587
Emergency evacuation flow models 04 p0512 N84-13360
Signal processor interface simulation of the AN/SPY-1A radar controller
[AD-A132170] 04 p0522 N84-13429
A simulation study of scene confusion factors in sensing soil moisture from orbital radar
[E84-10042] 04 p0552 N84-13635
Using simulation to estimate first passage distributions
[AD-A132328] 04 p0590 N84-13896
Simulation and interpretation of polarization diversity radar spectral functions
[AD-A132622] 05 p0670 N84-14402
Method and apparatus for simulating gravitational forces on a living organism
[NASA-CASE-MSC-20202-1] 07 p1050 N84-16803
Experimental water tunnel with density stratification for the simulation of small-scale atmospheric flows
[BLL-RISLEY-TR-4871-(9091.9F)] 08 p1106 N84-17188
Project DELUGE: The development of a Holloman high speed test track heavy rainfield
[AD-A134810] 08 p1108 N84-17205
Project DELUGE: A proposed mathematical model for the Holloman AFB test track simulated rainfield
[AD-A134891] 08 p1108 N84-17207
Nuclear explosion effects on telecommunication, etc. (effect of EMP and of ionizing radiation on electronics and optical electronics
[FOA-C-30302-A3] 08 p1146 N84-17458
Surface-attack mission simulation: Preliminary scenario evaluation
[AD-A135668] 09 p1259 N84-18219
Influence of stress, weightlessness, and simulated weightlessness on differentiation of preosteoblasts 09 p1354 N84-18846
Extensions of suspension systems to measure effects of hypokinesia/hypodynamia and antiorthostasis in rats 09 p1355 N84-18855
Rheoceptive mediators of gravireception in a water flea: Morphological implications of antennal-socket setae in daphnia magna 09 p1360 N84-18883
Simulation tools for digital LSI (Large Scale Integration) design
[AD-A136116] 09 p1369 N84-18938
Electrochemistry of anilines. 2: Oxidation to dications, electrochemical and UV/VIS spectroelectrochemical investigation
[AD-A136949] 10 p1454 N84-19498
An experimental hybrid model for a bilinear hysteretic system 10 p1514 N84-19910
RTMPL: A structured programming and documentation utility for real-time multiprocessor simulations
[NASA-TM-83606] 10 p1566 N84-20259
Simulation methodology
[AD-A137127] 10 p1592 N84-20436
International aviation (selected articles)
[AD-A137617] 11 p1599 N84-20473
Identification of multivariable high-performance turbofan engine dynamics from closed loop data 11 p1617 N84-20580
Diagnostics and simulation in G-XII implosion experiments 11 p1735 N84-21316
Simulations of galaxy mergers 11 p1757 N84-21470
AGARD Highlights, March 1984
[AGARD-HIGHLIGHTS-84/1] 12 p1763 N84-21498

closed bomb combustion simulation of Hivelite solid propellant 13 p1948 N84-22667
Is there radar evidence for liquid water on Mars? 13 p2088 N84-23529
Nozzle tests for simulating heavy rain in a wind tunnel [AD-A139586] 14 p2111 N84-23657
Simulation of lubricating behavior of a thioether liquid lubricant by an electrochemical method [NASA-TP-2316] 14 p2129 N84-23764
Testing and evaluation of EV-1300 lead-acid modules for the hybrid vehicle application [DE84-006718] 14 p2249 N84-24510
Numerical simulation of strongly non-isothermal compression molding flows 15 p2306 N84-24834
MHD (Magnetohydrodynamic) simulation of a comet magnetosphere [AD-A140208] 16 p2580 N84-26546
Simulation of exposure of aircraft transparencies to flight line environment [AD-P003212] 17 p2594 N84-26625
Surface embrittlement of polyethylene pipe grade resins [PB84-181973] 17 p2627 N84-26811
The simulation of deformable mechanical systems using vector processors 17 p2675 N84-27045
A brief history of the use of simulation techniques in training and performance assessment [AD-A140763] 17 p2746 N84-27437
Land Mobile Satellite Service (LMSS) channel simulator: An end-to-end hardware simulation and study of the LMSS communications links [NASA-CR-173744] 18 p2828 N84-27956
Development of an AFIT (Air Force Institute of Technology) ADP system network model [AD-A141253] 18 p2917 N84-28496
An analytical study of a locally cooled high Reynolds number simulation technique [AD-A141062] 19 p3023 N84-29170
La Recherche Aerospatiale, Bimonthly Bulletin, no. 1984-1, 218/ January - February [ESA-TT-858] 20 p3125 N84-29650
A NDT ignition delay predictive tool 20 p3143 N84-29958
The transfer of atoms, ions and molecular groups in solution. Part 3: Monte Carlo methods for the evaluation of rate constants [AD-A142335] 20 p3147 N84-29983
A simulation program with latency exploitation for the transient analysis of digital circuits [AD-A142377] 20 p3177 N84-30181
Industrial forging applications of shaping simulation using modeling clay [CETIM-1.3K.36.2] 21 p3376 N84-31424
A technique for simulating conduction interference created by electromagnetic pulses (EMP) [SNIAS-841-422-104] 21 p3388 N84-31502
Simulation of vibratory processes in damped structures with temperature-frequency characteristics of vibration absorbing materials taken into account 21 p3476 N84-32046
On-line task analyses in maintenance simulation [AD-P003452] 21 p3509 N84-32229
Special features of information presentation in teaching systems [BLL-M-35804-(5828.4)] 21 p3516 N84-32273
Simulation requirements for the Large Deployable Reflector (LDR) [NASA-CR-171140] 21 p3523 N84-32317
Simulation of an electronic countermeasure technique [AD-D011143] 22 p3572 N84-32619
A simulation of remote sensor systems and data processing algorithms for spectral feature classification [NASA-CR-172393] 22 p3597 N84-32784
Simulation of large networks of processors by smaller ones [AD-A143529] 22 p3643 N84-33098
Target for optically activated seekers and trackers [AD-D011059] 22 p3655 N84-33171
Evaluation of radar stereo viewability by means of a simulation technique 23 p3779 N84-33959
Alpha-particle simulation using NBI beam and ICRF wave [IPPJ-688] 23 p3827 N84-34270
A simulation process for determining reliability of cyclic random loaded structures [AD-P003849] 24 p3939 N84-34936

SIMULATOR TRAINING
U TRAINING SIMULATORS

SIMULATORS
NT COCKPIT SIMULATORS
NT CONTROL SIMULATION
NT ENVIRONMENT SIMULATORS
NT FLIGHT SIMULATORS
NT MOTION SIMULATORS
NT SHUTTLE ENGINEERING SIMULATOR
NT SOLAR SIMULATORS
NT SPACE SIMULATORS
NT SPACECRAFT CABIN SIMULATORS
NT TARGET SIMULATORS
NT TRAINING SIMULATORS
NT VIBRATION SIMULATORS
ATOPS B-737 inner-loop control system linear model construction and verification [NASA-CR-166055] 01 p0012 N84-10078
Fields and currents and charges on obstacles in a parallel-plate simulator at selected frequencies and with pulse excitation [AD-A132406] 04 p0520 N84-13418
Orbital maneuvering vehicle simulation system on-board processing logic 06 p0931 N84-16052
Gusts simulation for flight-mechanical investigations in wind tunnels 07 p0944 N84-16127
SAPIENS MEMO 5: The mechanical design of the EMP-simulator SAPIENS [FOA-C-30320-A3] 08 p1106 N84-17192
Road load simulator tests of the Gould phase 1 functional model silicon controlled rectifier ac motor controller for electric vehicles [NASA-TM-83497] 10 p1529 N84-20016
A laboratory investigation of the reflective properties of simulated, optically thick clouds [NASA-CR-175158] 10 p1578 N84-20336
Designing and constructing the Cloud Field Optical Simulator (CFOS) 10 p1578 N84-20337
The Cloud Field Simulation Project 10 p1578 N84-20338
Design and verification of a cloud field optical simulator 10 p1578 N84-20339
New TPS calibration bench, and ejector tests — wind tunnel turbines and powered models 14 p2099 N84-23594
Real-time simulation in a terrain model: Mathematical description [FOA-C-56041-H2] 15 p2390 N84-25343
Installation and evaluation of SPLICE [AD-A140170] 16 p2484 N84-25933
Development of simulators for guiding systems 18 p2797 N84-27750
UV laser triggering of crowbars used in the Sandia lightning simulator [DE84-009064] 20 p3180 N84-30199
Lightning simulator circuit parameters and performance for severe-threat, high-action-integral testing [DE84-009065] 20 p3181 N84-30211
Data base management of software development [AD-P003486] 21 p3513 N84-32253
Simulator-probe for diagnostic testing of short-wave radio channels 22 p3567 N84-32595

SIMULTANEOUS EQUATIONS
Numerical solution of systems of simultaneous polynomial equations [DE83-015832] 01 p0135 N84-10683
Simultaneous analysis and design [NASA-CR-172334] 12 p1826 N84-21902
Solution of simultaneous polynomial equations by elimination in MACSYMA [DE84-013691] 23 p3818 N84-34211

SINE WAVES
Bottomside sinusoidal waves, a new class of equatorial plasma irregularities 05 p0705 N84-14628
Inversion of ringdown data for a rotating liquid cylinder [AD-A134742] 08 p1159 N84-17546
Design and evaluation of a pulsating-flow wind tunnel [PB84-116086] 09 p1260 N84-18223
Measuring accurately single-phase sinusoidal and non-sinusoidal power [AD-A136408] 09 p1307 N84-19541
An automatic sine-wave grating controller to be used for contrast sensitivity testing [AD-A138294] 12 p1812 N84-21811
Forced stationary solutions in a barotropic channel: Multiple equilibria and theory of nonlinear resonance 12 p1856 N84-22089
Grid-based line drawing quantization [AD-A138194] 12 p1881 N84-22261
Grid-based line drawing quantization [AD-A138503] 12 p1884 N84-22278
Drag of two-dimensional small-amplitude symmetric and asymmetric wavy walls in turbulent boundary layers [NASA-TP-2318] 16 p2486 N84-25944
Spectroscopic determination of the ac voltammetric response [AD-A137321] 18 p2833 N84-27963
Identification and verification of frequency-domain models for XV-15 tilt-rotor aircraft dynamics [NASA-TM-86009] 24 p3856 N84-34445

SINGLE CHANNEL PER CARRIER TRANSMISSION
Voice processor for a single channel per carrier FM earth station [INPE-2707-TDL/130] 09 p1296 N84-18485
FM synthesizer-modulator with 1200 channels for SCPC transmission of voice signals by satellite — single channel per carrier transmission [INPE-2815-PRE/371] 23 p3730 N84-33638
A microwave oscillator controlled by pressure and stabilized by a 1250 MHz cavity resonator — single channel per carrier transmission [INPE-3173-PRE/543] 23 p3741 N84-33712

SINGLE CRYSTALS
Effect of point defects on mechanical properties of metals [DE83-014989] 01 p0046 N84-10297
Thermophysical property determination using transient techniques [AD-A130707] 01 p0156 N84-11027
Experimental studies of the geometric and electronic structure of chemisorption bonding [PB83-243949] 02 p0192 N84-11248
Deformation studies in workable superalloys [AD-A131606] 02 p0194 N84-11260
Analysis of nonuniform deformation in ductile single crystals 02 p0297 N84-11951
Photoconductor fabrication for operation in the thermal infrared — lead tin telluirides [INPE-2835-PRE/384] 02 p0298 N84-11952
Microstructural origins of hot spots in RDX explosive and several reference inert materials [AD-A132056] 03 p0357 N84-12325
Investigation of the Rayleigh critical angle phenomenon for the characterization of surface properties [AD-A131530] 03 p0360 N84-12340
Generation of monoenergetic positrons [DE83-015535] 03 p0440 N84-12887
Single Pb (1-x)Sn(x) Te crystal growth by vapor phase transport, with formation of a liquid/solid interface [INPE-2811-PRE/369] 03 p0451 N84-12967
The growth and measurement of single-crystal doped GGG (Gd3-xCaxGa5-xZrx012) [AD-A131875] 03 p0452 N84-12971
Temperature dependence of the electric-field gradient in Er metal [DE83-015564] 03 p0454 N84-12989
Microgravity silicon zoning investigation [NASA-CR-170919] 04 p0488 N84-13207
NdP5O14 crystal used for miniature rangefinder [AD-A132541] 04 p0539 N84-13549
Preparation of infrared optic fibers using new materials [AD-A132311] 04 p0604 N84-13968
Polarization effects in the luminescence of cadmium selenide electrodes [AD-A133951] 05 p0647 N84-14253
Chemical modification of chemisorptive and catalytic properties of nickel [DE84-002046] 05 p0655 N84-14308
Low-cost single-crystal turbine blades, volume 1 [NASA-CR-168218] 06 p0805 N84-15247
Electrical conductivities of polycrystalline and single-crystal Er2O3-stabilized hafnia [DE83-017681] 06 p0811 N84-15279
Surface photoluminescence and it application 06 p0815 N84-15304
Surface segration and diffusion investigations by means of AES 06 p0816 N84-15319
Structural properties of epitaxial single layer metals on (110) B.C.C. metal substrates 06 p0817 N84-15326
Specific heat of octahydro-1,3,5,7tetranitro-1,3,5,7-tetrazocine (HMX) [AD-A134564] 07 p0966 N84-16260
Line-source E-beam crystallization of silicon-on-insulator films [DE84-003218] 07 p0999 N84-16478
Sound velocity anisotropy in cubic crystals [NASA-CR-175344] 07 p1079 N84-17016
Electron spectroscopy study of SiC [AD-A134352] 07 p1080 N84-17023
Performance and materials aspects of Ge:Be and Ge:Ga photoconductors for far-infrared detection [DE84-003046] 07 p1081 N84-17029
Factors which influence directional coarsening of Gamma prime during creep in nickel-base superalloy single crystals [NASA-TM-83595] 08 p1131 N84-17353
Influence of composition on the microstructure and mechanical properties of a nickel-base superalloy single crystal [NASA-TM-83563] 08 p1131 N84-17354
Ion beam modification of ceramics [DE84-003302] 08 p1138 N84-17403
Thermocapillary flows and their stability: Effects of surface layers and combination [NASA-CR-170962] 08 p1155 N84-17522
Research and crystal growth on high dielectric constant materials for mm wave applications [AD-A136281] 09 p1394 N84-19102
Development of high purity IP crystals [AD-A135937] 09 p1395 N84-19114

Evaluation of single crystal LaB6 cathodes for use in a high frequency backward wave oscillator tube
[NASA-CR-173343] 10 p1485 N84-19709
The preparation of BP single crystals by high pressure flux method
[NASA-TM-77389] 10 p1587 N84-20403
Growth of cadmium telluride by pulling under liquid encapsulation
[AD-A136842] 10 p1589 N84-20412
Studies of the propagation of elastic waves in fluids and solids
[AD-A137603] 11 p1729 N84-21278
Transport properties of selected metal oxides 11 p1740 N84-21356
Oxygen exchange measurements on zirconia-yttria electrolyte surfaces modified by various dopants 11 p1742 N84-21367
The growth and characterization of single crystal (Cd, Zn)S thin films relevant to the study of the (Cd, Zn)S/Cu/sub x/S photovoltaic cell
[DE84-003288] 11 p1745 N84-21385
Segregation of Si and Sn to the Fe(100) surface in the Fe-6.2% Si-0.03% Sn alloy
[AD-A138154] 12 p1798 N84-21726
A technique for increasing the optical strength of single-crystal NaCl and KCl through temperature cycling
[AD-A136280] 12 p1820 N84-21867
Dislocations in Syton polished InP
[AD-A136041] 12 p1913 N84-22463
Measuring the temperature coefficients of the elastic constants of indium phosphide
[AD-A138454] 12 p1915 N84-22474
Plasma-initiated laser deposition of polycrystalline and monocrystalline silicon films
[DE84-005527] 13 p1996 N84-22953
Ferroelectric tungsten bronze bulk crystals and epitaxial thin films for electro-optic device applications
[AD-A136693] 13 p2046 N84-23278
Characterization of single crystal Cu/sub 2S/CdS heterojunctions by hing resolution electron microscopy
[DE84-006761] 13 p2048 N84-23287
New materials for infrared transmitting electrooptic filters
[AD-A139272] 14 p2224 N84-24349
Chemical modification of surfaces: The effect of potassium on the chemisorption of molecules on transition metal crystal surfaces
[DE84-008345] 14 p2244 N84-24473
Study of low temperature plastic deformation mechanisms of alpha-titanium single crystals
[ONERA-NT-1983-7] 16 p2560 N84-26422
Structure of silver (100) and (111) single-crystal surfaces obtained by chemical polishing
[AD-A140148] 16 p2560 N84-26424
The influence of lattice imperfections on the chemical reactivity of solids. The growth and perfection of TNT (trinitro-toluene) single crystals
[AD-A140408] 16 p2560 N84-26425
Development of high modulus polydiacetylene fibres for use in fibre-reinforced composites
[AD-A140912] 17 p2627 N84-26809
Nonlinear transmission of laser radiation by ZnTe monocrystals at helium temperatures 17 p2636 N84-26863
Model catalytic studies using metal single crystals
[DE84-010267] 18 p2812 N84-27850
High temperature and post irradiation piezoelectric properties of strontium niobate, Sr2Nb2O7
[AERE-R-11112] 18 p2820 N84-27906
Microcrystalline silicon growth for heterojunction solar cells
[NASA-CR-173751] 18 p2869 N84-28215
High-quality silicon films prepared by zone-melting recrystallization 18 p2939 N84-28638
Crystalline effects in Auger electron spectroscopy
[AERE-R-11051] 18 p2942 N84-28658
Energy efficient engine high-pressure turbine detailed design report
[NASA-CR-165606] 19 p2965 N84-28788
Defect interactions in GaAs single crystals 19 p3046 N84-29323
High energy channeling and its applications
[DE84-007251] 19 p3103 N84-29715
Superconducting electronic film structures
[AD-A141113] 19 p3110 N84-29760
Single crystal growth of ferroelectric tungsten bronze compositions for SAW applications
[AD-A141741] 19 p3110 N84-29763
Research on the crystal growth and dielectric properties of high permittivity ferroelectric materials
[AD-A142125] 19 p3111 N84-29767
Preparation of mixed perovskite oxides for blue-green lasers
[AD-A142195] 19 p3111 N84-29768
Quartz growth on x-seeds
[AD-D011031] 19 p3112 N84-29770
Investigations to improve the stability of thermal oxides on polycrystalline and single crystalline silicon
[BMFT-FB-T-84-052] 19 p3113 N84-29780
Detecting optical polarization of nuclei in semiconductors with super-conducting quantum interferometer 20 p3286 N84-30885
Elastic domain wall waves in ferroelectric ceramics and single crystals
[AD-A142393] 20 p3308 N84-31011
Cation self-diffusion in Fe2O3
[DE84-009152] 20 p3310 N84-31025
Preliminary experiments on phase conjugation for flow visualization --- barium titanate single crystals
[NASA-TM-83766] 21 p3498 N84-32189
Mechanisms of electrical conductivity in olivine
[DE83-017313] 22 p3588 N84-32723
Investigation of optical fibers for nonlinear optics
[AD-A143565] 22 p3657 N84-33185
Manufacture and characterization of Pb(1-x)Sn(x)Te photoconductors
[INPE-3045-TDL/157] 22 p3662 N84-33212
Defect clusters and electrical properties in transition metal monoxides
[DE84-014851] 22 p3666 N84-33242
Chemical reaction dynamics at surfaces 22 p3681 N84-33340
Raman spectroscopic study of acetylene on supported rhodium catalysts
[AD-A144099] 23 p3714 N84-33544
High-pressure hydrogen testing of single crystal superalloys for advanced rocket engine turbopump turbine blades
[NASA-TM-86464] 23 p3717 N84-33563
Surface property modification of silicon
[NASA-CR-173952] 23 p3788 N84-34023
Protein Single Crystal Growth Under Low Gravity --- conferences
[ESA-SP-1067] 23 p3804 N84-34118
Protein single crystal growth under microgravity 23 p3805 N84-34124
Effect of annealing under thermodynamically stable conditions on the formation and transformation of structural defects in diamond monocrystals
[CSIR-TRANS-1737] 23 p3829 N84-34288
Fracto-emission from polymers
[AD-A144149] 24 p3888 N84-34622
Joint services electronics program
[AD-A144445] 24 p3896 N84-34685
The research and fabrication of electronic materials and the establishment of characterization center of electronic materials 24 p3958 N84-35063
Research and crystal growth on high dielectric constant materials for mm wave applications
[AD-A144412] 24 p3967 N84-35119

SINGLE SIDEBAND MODULATION
U SINGLE SIDEBAND TRANSMISSION

SINGLE SIDEBAND TRANSMISSION
The satellite applications of amplitude companded single sideband modulation 06 p0827 N84-15391
Interference measurements on amplitude compandored single sideband (ACSB) land mobil radio
[PB84-123645] 10 p1484 N84-19702
Performance of telecommunications systems in a random probabilistic environment. Task 2: Single source interference with random parameters
[PB84-158534] 17 p2655 N84-26981
Simultaneous detection of time coincident signals in an adaptive Doppler tracker
[AD-D011092] 22 p3577 N84-32659

SINGLE-PHASE FLOW
Single phase sodium flow in complex and deformed generators 06 p0842 N84-15489

SINGULARITY (MATHEMATICS)
The singularity expansion method applied to plane wave scattering from a lossy slab on a conducting half-space
[DE83-012942] 01 p0068 N84-10442
Rank modification method for certain singular systems of linear equations 03 p0427 N84-12797
On the singularities of certain nonlinear partial differential equations 04 p0575 N84-13787
Generalized composite integration rules in the presence of a singularity
[CSIR-TWISK-272] 04 p0587 N84-13876
Multivariate, minimum-curvature splines for randomly spaced data
[AD-A132319] 04 p0590 N84-13899
On the model equations which describe nonlinear wave motions in a rotating fluid
[AD-A134556] 07 p1002 N84-16499
Advanced topics in robustness for multivariable control
[AD-A134606] 07 p1058 N84-16850
Applications of Non-Self-Adjoint operator theory to the Singularity Expansion Method (SEM) and to the Eigenmode Expansion Method (EEM) in acoustic and electromagnetic problems
[AD-A135177] 08 p1219 N84-17955
Bodies in compressible flow: The use of axial singularity distributions
[COLL-AERON.-8329] 11 p1600 N84-20483
Kinematics, influence functions and field quantities for disturbance propagation from moving disturbance sources
[NASA-TM-77410] 11 p1601 N84-20489
An introduction to the technique of singular perturbations applied to performance optimization problems in atmospheric flight mechanics
[VTH-LR-374] 12 p1769 N84-21540
Design of a complete multivariable digital flight control system
[AFIT/GE/EE/82D-18] 15 p2253 N84-24532
Diffraction of a line sink field
[FOA-C-30353-E] 15 p2320 N84-24931
A numerical view on strong viscous-inviscid interaction
[NLR-MP-83048-U] 17 p2669 N84-27020
On the singular set and the uniqueness of weak solutions of the Navier-Stokes equations
[PREPRINT-835] 17 p2759 N84-27523
Resolution of singularities of integral quadratic forms
[CTH-MATH-1983-22] 17 p2761 N84-27536
The approximation theory for the p-version of the finite element method, part 2
[AD-A140952] 18 p2925 N84-28550
Lagrangian singularities: Applications 19 p3118 N84-29812
Singular value decomposition with systolic arrays
[NASA-CR-172396] 20 p3279 N84-30817
Calculating electric fields in semiconductor structures when singularities are present 21 p3479 N84-32051
Singularities connected with a trace on a Banach algebra 22 p3634 N84-33034
Persistence of the Hopf bifurcation under singular perturbations
[DE84-013871] 22 p3646 N84-33120
Qualitative analysis of the anisotropic Kepler problem 23 p3819 N84-34221

SINKS
NT HEAT SINKS
Preliminary report on the global transport model GRANTOUR
[DE84-005596] 11 p1676 N84-20936
Carbon cycle research plan
[DE84-006221] 12 p1861 N84-22124

SINKS (GEOLOGY)
U STRUCTURAL BASINS

SINTERED ALUMINUM POWDER
Strengthening and strength uniformity of structral ceramics
[AD-A144302] 24 p3889 N84-34625

SINTERING
Phase transformations and coercive force of alloys based on the compound SmCo5
[BLL-M-35117-(5828.4)] 01 p0040 N84-10255
Development of a multilayer process based on the down draft principle for the sintering of iron ore
[BMFT-FB-T-83-065] 02 p0197 N84-11282
High strength powder metal (PM) steels by liquid phase sintering
[BMFT-FB-T-83-139] 02 p0198 N84-11297
Cold sintering: A new powder consolidation process
[AD-A131687] 03 p0353 N84-12292
Characterization of ceramic vane materials for 10KW turboalternator
[AD-A132505] 04 p0486 N84-13196
Wear during rubbing of a sintered metal powder body
[AD-A132354] 04 p0544 N84-13584
Tensile strength of pressureless-sintered silicon nitride at elevated temperature
[NAL-TR-753] 04 p0548 N84-13611
Chemistry of shock compression: A bibliography
[DE84-002192] 05 p0851 N84-14279
Development of improved coating for advanced carbon-carbon components
[NASA-CR-173248] 07 p0967 N84-16265
Electrodes for solid state devices
[NASA-CASE-NPO-15161-1] 07 p0996 N84-16456
Grain size in sintered samarium-cobalt alloys and their coercive force
[BLL-M-35406(5826.4)] 09 p1281 N84-18365
Migration of grain boundaries in ceramic materials with particular reference to the sintering process
[DE84-004086] 09 p1289 N84-18414
Klystron manufacturing technology program
[AD-A135782] 09 p1309 N84-18555
Role of Al-2O-3 in sintering of submicron yttria-stabilized ZrO-2 powders
[AD-A136796] 10 p1460 N84-19533

Technique for manufacturing nickel electrodes
[NASA-TM-77239] 11 p1632 N84-20671
Recent trends and theoretical background in sintering of silicon carbide ceramics
[NASA-TM-77378] 11 p1636 N84-20698
Some non-electrochemical requirements for air electrode materials of high temperature solid electrolyte fuel cells 11 p1742 N84-21363
Sintering phenomena of non-oxide silicon compounds
[DE84-006599] 12 p1802 N84-21747
Studies of coercive force of permanent magnet materials
[AD-A138123] 12 p1898 N84-22360
Method of making a light weight battery plaque
[NASA-CASE-LEW-13349-1] 13 p1960 N84-22734
Swedish activities in new ceramic materials, processes 14 p2119 N84-23696
Gas pressure sintering of Beta-Sialon with Z=3
[NASA-TM-77421] 14 p2129 N84-23765
Reduced grain boundary mobility and the sintering of molybdenum
[AD-A140265] 16 p2469 N84-25823
Fabrication of highly dense SiN4 ceramics without additives by high pressure sintering
[NASA-TM-77425] 16 p2470 N84-25829
Development of sintered Si3N4 for high performance thermomechanical applications
[AD-A140795] 17 p2627 N84-26807
Hot-pressed silicon nitride with various lanthanide oxides as sintering additives
[NASA-TM-77424] 19 p2985 N84-28916
Organic materials for ceramic molding processes
[NASA-TM-77438] 19 p2997 N84-28991
Precision digital dilatometry: A microcomputer-based approach to sintering studies
[DE84-009794] 19 p3073 N84-29497
The role of sintering in the oxidation-reduction of palladium powders
[DE84-011202] 20 p3159 N84-30059
Low temperature sintering of Al2O-CaO
[DE84-010713] 20 p3163 N84-30083
Investigation of the role of sintering in gas-solid interactions
[DE84-010862] 20 p3163 N84-30089
Development of a lightweight nickel electrode
[NASA-TM-86861] 20 p3234 N84-30528
Comparative studies of vapor and liquid-phase impregnation of porous silicon nitride and silicon carbide materials
[DE84-012867] 21 p3359 N84-31309
Analytical characterization of coatings and thin overlayers
[DE84-011902] 21 p3371 N84-31389
Investigation of shock activated sintering and shock wave consolidation of selected powder materials
[DE84-013074] 21 p3371 N84-31391
Sintered hard metal alloys and process for their manufacture
[CSIR-TRANS-1748] 22 p3552 N84-32493
Producing thermomagnetic alloy by powder metallurgy
[BLL-M-35666-(5828.4)] 22 p3553 N84-32500
Microstructural development and control in liquid phase sintering; processing, structures and properties of cold worked metal matrix composites
[AD-A143188] 22 p3555 N84-32509
Processing science to increase the reliability of ceramics
[AD-A143207] 22 p3559 N84-32539
Special features of the formation of a bed of polydispersed free-flowing materials
[BLL-M-35674-(5828.4)] 22 p3592 N84-32747
Tricresyl phosphate retention by bearing retainer and reservoir materials
[AD-A143842] 23 p3724 N84-33596
Highly porous powder-fiber composite materials 24 p3872 N84-34538
Silicon carbide material sintered bodies manufacturing
[NASA-TM-77596] 24 p3878 N84-34574
Sinterable ceramic powders from laser heated gas phase reactions and rapidly solidified ceramic materials
[AD-A144439] 24 p3889 N84-34627

SINUSOIDS
U SINE WAVES

SIRIO SATELLITE
The small transmitter receiver stations in the Sirio experiment — microwave transmission
[FUB-50-1982] 06 p0826 N84-15386
The European Space Agency's Earth observation satellite programmes 06 p0867 N84-15647
Rivista Tecnica Selenia, volume 8, number 3, 1983 06 p0906 N84-15887
The meteorological data distribution mission on board SIRIO satellite 06 p0907 N84-15891
Model mission study for laser synchronization of clocks
[SNIAS-221-CA/LP] 06 p1162 N84-17569

SIRS B SATELLITE
Current trends and research challenges in land remote sensing 08 p1174 N84-17651

SITE SELECTION
OTEC (Ocean Thermal Energy Conversion) cold water pipe at-sea test program. Volume 2.F.: Environmental design criteria
[PB83-221127] 01 p0080 N84-10394
Environmental design criteria for the 1/3 scale OTEC cold water pipe at-sea test site off Honolulu, Hawaii
[PB83-221143] 01 p0080 N84-10395
Study of the practicalities of concrete for OTEC (Ocean Thermal Energy Conversion) and other marine applications
[PB83-221887] 01 p0080 N84-10398
Preliminary operating assessment advanced Heat Recovery Incinerator (HRI). Site One: O'Connor Combustor Corporation
[AD-A131254] 01 p0103 N84-10667
Making use of wind energy: A course in evaluating and choosing sites for small wind machines
[DE83-014945] 01 p0109 N84-10707
Low-level radioactive waste disposal in the oceans
[DE83-013367] 01 p0145 N84-10956
Compilation of selected faults and lineaments that may be relevant to a study of seismic activity in southern Nevada and part of adjacent California
[DE83-017085] 03 p0409 N84-12673
Survey of water quality and flow in Maryland coastal zone streams: A data report
[PB83-249375] 04 p0556 N84-13660
Ecological Research Division marine research program
[DE83-017880] 04 p0560 N84-13691
Confidence region for the evaluation of HF DF single site location systems
[AD-A133208] 06 p0785 N84-15140
Conductivity mapping of underground flow channels and moisture anomalies in carbonate terrain using electromagnetic methods
[DE84-004096] 08 p1178 N84-17677
Estimation of small area populations using remote sensing and other approaches
[DE84-003404] 08 p1178 N84-17678
Perturbations on the reception characteristics of antennas on Diego Garcia due to the presence of a GEODSS site
[AD-A136107] 09 p1303 N84-18520
Optical detection loss due to air-borne salts on Diego Garcia
[AD-A136120] 09 p1346 N84-18792
Zoning for wind machines: A guide for Minnesota communities
[PB84-129568] 10 p1531 N84-20027
Arctic Terrestrial Environmental Research Programs of the Office of Energy Research, Department of Energy: Evaluations and recommendations. Appendix B: Components of an Arctic Terrestrial Environmental Research Program
[PB84-129766] 11 p1672 N84-20913
Wind energy systems program summary, fiscal years 1981 and 1982
[DE84-002958] 11 p1673 N84-20919
Small wind systems field evaluation. Volume 1: Executive summary and program description
[DE84-006016] 12 p1844 N84-22023
Investigations of micro-turbulence in the bottom of the boundary layer
[AD-A138524] 12 p1861 N84-22123
Wind power generation design considerations
[AD-A138841] 13 p2009 N84-23029
Discussion of the design of satellite-laser measurement stations in the eastern Mediterranean under the geological aspect. Contribution to the earthquake prediction research by the Wegener Group and to NASA's Crustal Dynamics Project
[NASA-TM-77412] 14 p2175 N84-24031
Protecting wind access: A preliminary assessment
[DE83-011970] 16 p2528 N84-26227
Seismicity of the Paradox Basin and the Colorado Plateau interior
[DE84-011620] 20 p3228 N84-30516
Overview of wind turbine siting considerations
[DE84-011686] 20 p3237 N84-30547
On-site analysis to assess the feasibility of wind power
[DE84-009782] 20 p3247 N84-30606
Vegetation and climates of the last 45,000 years in the vicinity of the Nevada Test Site, south-central Nevada
[DE84-009032] 20 p3247 N84-30610
Andean tectonics: Implications for Satellite Geodesy
[NASA-TM-86160] 24 p3919 N84-34809
Safe havens: Selecting landing sites for Viking 24 p3991 N84-35257
Site certification and landing 24 p3991 N84-35258

SITES
NT LANDING SITES
NT LAUNCHING PADS
NT LAUNCHING SITES
Characteristics of wind direction meander during onshore flow at a coastal site
[DE84-004178] 11 p1688 N84-21007
Seismo-acoustic effects of sonic booms on archeological sites, Valentine Military Operations Area
[AD-A139581] 14 p2146 N84-23882

SIZE (DIMENSIONS)
Methods for choosing buffer size in tandem production operations
[AD-A132639] 05 p0735 N84-14828
Size effect and strength variability of unidirectional composites
[AD-A134171] 07 p0967 N84-16268
A timing and memory sizing study for wavenumber analyzer
[AD-A135581] 09 p1318 N84-18611
POSTOP: Postbuckled open-stiffener optimum panels, user's manual
[NASA-CR-172260] 09 p1330 N84-18682
Performance and size estimating for wind systems
[DE84-006980] 13 p2009 N84-23033
Visual display technology: A developing challenge for the behavioral scientist
[AD-P003290] 18 p2908 N84-28441
How many specimens? An aid in the design of fatigue test programs
[AD-A142810] 21 p3422 N84-31704
Stand-alone flat-plate photovoltaic power systems: System sizing and life-cycle costing methodology for Federal agencies
[NASA-CR-173903] 22 p3618 N84-32922
Study of size factor effect on low-cycle fatigue of aluminum alloys 23 p3706 N84-33492

SIZE DETERMINATION
NT PRECIPITATION PARTICLE MEASUREMENT
Look at techniques for the dimensional calibration of standard microscopic particles
[PB84-112648] 08 p1126 N84-17324
A molecular identification device for individual sub-micron aerosols: Engineering breadboard device
[AD-A137139] 10 p1536 N84-20067
Fuel spray diagnostics 11 p1608 N84-20527
Development and implementation of advanced diagnostic techniques 11 p1608 N84-20528
Analysis and testing of a new method for drop size and velocity measurements using laser light scatter interferometry 11 p1608 N84-20529
Characterization of heavy oil sprays in isothermal and burning conditions with laser light scattering measurements in the sideward region 15 p2294 N84-24766
Remote sensing of floe size distribution and surface topography
[E84-10132] 15 p2357 N84-25141
Mie scattering as a technique for the sizing of air bubbles
[AD-A142737] 21 p3498 N84-32170
Method for the particle size independent spectrometric determination of metal particles in lubricating oils and hydraulic fluids
[AD-D011121] 22 p3545 N84-32445

SIZE DISTRIBUTION
NT PARTICLE SIZE DISTRIBUTION
Condition of erythrocytes during long-term exposure to magnetic field 02 p0261 N84-11711
Aerosol size distribution using the extinction-sedimentation inversion technique
[AD-A132158] 04 p0563 N84-13711
Vapor-liquid phase separator studies
[NASA-CR-166545] 08 p1156 N84-17527
Size distribution for G.P. zones in dilute Al-Zn alloys
[AD-A137519] 10 p1459 N84-19531
Measurements in liquid fuel sprays 11 p1608 N84-20526
Combustion characteristics in the transition region of liquid fuel sprays 11 p1609 N84-20534
Liquid fuel atomization and mixing in a high velocity air stream 15 p2291 N84-24746
Remote sensing of floe size distribution and surface topography
[E84-10132] 15 p2357 N84-25141
Acidification of rain by the oxidation of dissolved SO2 and the absorption of HNO3
[PB84-168368] 15 p2367 N84-25200
On the stable size distribution of populations reproducing by fission into two unequal parts
[CWI-AM-R8401] 19 p3092 N84-29633
Development of a global model for atmospheric backscatter at CO2 wavelengths
[NASA-CR-171117] 21 p3442 N84-31835

Development of a global model for atmospheric backscatter at CO2 wavelengths
[NASA-CR-171116] 21 p3442 N84-31836
Development of a global model for atmospheric backscatter at CO2 wavelengths
[NASA-CR-171127] 21 p3442 N84-31837
Development of a global model for atmospheric backscatter at CO2 wavelengths
24 p3924 N84-34836

SIZE SEPARATION
Measurement of lung function using the magnetometer system
[AD-A130841] 01 p0114 N84-10736

SIZING (SEPARATION)
U SIZE SEPARATION

SKELETON
U MUSCULOSKELETAL SYSTEM

SKEWNESS
Taquac, Guam Island. Range reference atmosphere 0-30 km altitude
[AD-A133618] 06 p0882 N84-15736
Effects of a skewed inlet end wall boundary layer on the 3-D flow field in an annular turbine cascade
07 p0956 N84-16202
Analysis of laser spot quality
[AD-A138056] 12 p1820 N84-21861
Ascension Island, South Atlantic Range reference atmosphere, 0.68 km altitude
[AD-A138470] 12 p1861 N84-22122

SKILLS
U ABILITIES

SKIN (ANATOMY)
Chronic effects of repeated mechanical trauma to the skin: A description of the problem in the workplace
[PB84-181767] 20 p3261 N84-30695

SKIN (STRUCTURAL MEMBER)
Friction and wear behavior of aluminum and composite airplane skins
[NASA-TP-2262] 08 p1103 N84-17175
Skin-stiffener interface stresses in composite stiffened panels
[NASA-CR-172261] 09 p1330 N84-18681
Pyrotechnic shock test and test simulation
10 p1506 N84-19873
Moisture transport in composites during repair work
[AD-A138658] 13 p1954 N84-22703
The use of Arall in fuselage skins
[AD-B080831] 15 p2260 N84-24572
Impact dynamics research on composite transport structures
20 p3146 N84-29975

SKIN FRICTION
NT AERODYNAMIC DRAG
NT SUPERSONIC DRAG
NT VISCOUS DRAG
Transonic airfoil development
03 p0317 N84-12076
La Recherche Aerospatiale, Bimonthly Bulletin, no. 1982-3, 208/May-June 1982
[ESA-TT-771] 04 p0593 N84-13916
Drag of two-dimensional small-amplitude symmetric and asymmetric wavy walls in turbulent boundary layers
[NASA-TP-2318] 16 p2486 N84-25944
Three-dimensional laminar separation
[AD-A140378] 16 p2493 N84-25993
Studies of boundary layer transition and surface roughness effects in hypersonic flow
[AD-A140803] 17 p2601 N84-26670
La Recherche Aerospatiale, Bimonthly Bulletin, no. 1984-1, 218/ January - February
[ESA-TT-858] 20 p3125 N84-29850
The effects of porous material on microbubble skin friction reduction
[AD-A143401] 22 p3593 N84-32756
Measurement of skin friction in unsteady boundary layers using a flush-mounted hot-film gage
[PB84-197995] 22 p3596 N84-32773
Turbulent boundary layers developing over compliant surfaces
[AD-A144268] 24 p3900 N84-34698

SKIRTS
Development of GAP-TAGN-PEG propellants. Part 1: Study of ingredients
20 p3143 N84-29954

SKY
NT NIGHT SKY
The far infrared sky survey experiment
[AD-A131966] 03 p0461 N84-13037

SKY BRIGHTNESS
Model for illuminance on horizontal and vertical surfaces
[DE83-011973] 03 p0475 N84-13127
Graphical method for determining interflected daylight in clear climates
[DE83-011989] 03 p0475 N84-13128
Dual channel water vapor radiometer system
[PB84-119445] 08 p1189 N84-17748
Daylight availability as a function of atmospheric conditions
[DE84-007973] 20 p3247 N84-30609

SKY RADIATION
NT AIRGLOW
NT DAYGLOW
NT NIGHTGLOW
NT TWILIGHT GLOW
The radiative cooling resource
16 p2513 N84-26131

SKY WAVES
NT WHISTLERS
Ionospheric propagation in the L. F. broadcasting band
[BBC-RD-1983/15] 05 p0665 N84-14375
Frequency correlation of HF skywave ground backscatter Doppler spectra
[PB84-204353] 22 p3578 N84-32668
Statistics at HF skywave ground backscatter Doppler spectra
[PB84-204973] 22 p3578 N84-32669
Low and high altitude ionospheric modification experiments
23 p3796 N84-34072

SKYLAB PROGRAM
Living and working in space. A history of Skylab
[NASA-SP-4208] 16 p2454 N84-25737

SLABS
The effect of technological parameters on the heterogeneity of continuously cast slab
[BLL-M-35095-(5828.4)] 01 p0042 N84-10271
The singularity expansion method applied to plane wave scattering from a lossy slab on a conducting half-space
[DE83-012942] 01 p0068 N84-10442
Use of numerical heat-transfer techniques to analyze thermal-comparator conductivity measurements
[DE84-000945] 04 p0535 N84-13515
Combustion at the interface of an oxidizer-fuel slab system
06 p0800 N84-15215
Multiple scattering from a random and inhomogeneous slab
06 p0863 N84-15824
Analytical and numerical solution for a solidifying liquid alloy slab
06 p0927 N84-16025
Development of a stress-dependent finite element slab model
[AD-A135836] 09 p1332 N84-18694
Analysis of structural storage air conditioning systems
11 p1640 N84-20725
A study of distributed millimeter-wave isolators
[AD-A142729] 20 p3179 N84-30189
Temperature and heat-flux distributions in a strip-heated composite slab
[DE84-006016] 23 p3712 N84-33529

SLAGS
Study of the recovery of valuable metal starting materials from steelworks slag
[BMFT-FB-T-83-183] 10 p1532 N84-20034
The behavior of a slag base pavement structure at P39/1, Erasmia under heavy vehicle simulator loading
[RP/5/82] 11 p1639 N84-20716
The density of liquid slags containing iron oxide
[NPL-DMA(A)-75] 17 p2622 N84-26782

SLANT
U SLOPES

SLANT PERCEPTION
U SPACE PERCEPTION

SLATER ORBITALS
The hydrogen molecule for a two-dimensional system --- doped semiconductors
[INPE-2981-PRE/443] 07 p1071 N84-16958

SLEDS
NT ROCKET PROPELLED SLEDS
Airplane take-off system
[AD-D011204] 24 p3856 N84-34449
Optical fiber splice sled
[AD-D011180] 24 p3910 N84-34767

SLEEP
NT HYPERSOMNIA
NT INSOMNIA
Benzodiazepine effects on arousal threshold during sleep
[AD-A133151] 07 p1047 N84-16792
Effect of the microclimate on the night sleep and physical fitness of seamen during a cruise in the low latitudes
08 p1196 N84-17813
Methods and means of improving the working capability of flight personnel
11 p1694 N84-21051
Variations in states of alertness during continuous operations at the control post level
11 p1697 N84-21068
Efficacy of conditioning animals to hypoxia during sleep
15 p2377 N84-25261
The influence of sleep state on ventilatory control in humans
17 p2748 N84-27435
Electrosleep in prophylaxis of psychoneural stress and recovery of mental performance in operators
18 p2895 N84-28367
Individual distinctions of human sleeping respiration at altitude of 4200 meters
20 p3256 N84-30683
Noise as a public health problem, volume 1
[AD-A142412] 21 p3436 N84-31799

SLEEP DEPRIVATION
Task validation for studies on fragmented sleep and cognitive efficiency under stress
[AD-A130260] 01 p0116 N84-10753
Physical fitness as a moderator of cognitive degradation during sleep deprivation
[AD-A131982] 03 p0415 N84-12718
Sleep and wakefulness handbook for flight medical officers
[AGARD-AG-270(FR)] 06 p0891 N84-15788
Extending human effectiveness during sustained operations through sleep management
[AD-A134782] 08 p1200 N84-17825
A study on the gastrointestinal hormones and the gastric acid secretion during physical stress in man
[NDRE/PUBL-83/1001] 10 p1548 N84-20136
The effects of sleep loss and sustained mental work: Implications for command and control performance
11 p1697 N84-21069
Some issues in research on effects of sustained work and sleep loss on performance
11 p1697 N84-21071
Hypnotics and air operations
11 p1697 N84-21072
Sustained military operations with particular reference to prolonged exercise
11 p1699 N84-21081
Complex demodulation: A technique for assessing periodic components in sequentially sampled data
[AD-P003845] 24 p3939 N84-34933

SLEEVES
Optical fiber splice sled
[AD-D011180] 24 p3910 N84-34767

SLENDER BODIES
Vortical flow management for improved configuration aerodynamics: Recent experiences
03 p0326 N84-12129
Unsteady boundary layers on thin bodies of revolution
[AD-A136257] 09 p1313 N84-18583
A microchemical derivation of the differential equations of interfacial statics. 3: Line tension
15 p2307 N84-24844
Studies of boundary layer transition and surface roughness effects in hypersonic flow
[AD-A140803] 17 p2601 N84-26670
Development and application of an analysis of axisymmetric body effects on helicopter rotor aerodynamics using modified slender body theory
[NASA-TM-85934] 21 p3324 N84-31090

SLENDER WINGS
NT INFINITE SPAN WINGS
LANN (Lockheed, AFWAL, NASA-Langley and NLR) wing test program: Acquisition and application of unsteady transonic data for evaluation of three-dimensional computational methods
[NASA-CR-174466] 01 p0005 N84-10032
Effects of blowing spanwise from the tips of low-aspect ratio wings of varying taper ratio, with application to improving STOL capability of fighter aircraft
[AD-A135688] 09 p1252 N84-18175
Numerical simulation of transonic flutter of a high-aspect-ratio transport wing
[NAL-TR-776T] 09 p1257 N84-18208
Theory of hypersonic three-dimensional flow of nonsteady gas stream with relaxation past thin wing with arbitrary aspect ratio
13 p1971 N84-22791
Wind tunnel tests of high-lift systems for advanced transports using high-aspect-ratio supercritical wings
[NASA-CR-3523] 19 p2957 N84-28742

SLICING
Workpiece positioning vise
[NASA-CASE-GSC-12762-1] 18 p2848 N84-29083

SLICKS
U OIL SLICKS

SLIDES
U CHUTES

SLIDING
Bibliography of coefficient of friction literature relating to slip type accidents --- slipping accidents
[PB83-243626] 03 p0359 N84-12334
Slippery versus slip resistant work surfaces: The background for a regulatory definition
[PB83-243634] 04 p0516 N84-13392
Investigation of the generation of regular waves by a sliding valve pneumatic wave generator
[CSIF-RR-553] 04 p0543 N84-13579
Hydrodynamic lubrication of rigid nonconformal contacts in combined rolling and normal motion
[NASA-TM-83578] 08 p1166 N84-17592
Analyzing sliding stability of structures using the modified computer program GWALL, revision
[AD-A136954] 10 p1517 N84-19934

Non-Hertzian rolling contact with longitudinal creepage
15 p2315 N84-24894
Transfer during sliding wear of selected metal systems
21 p3364 N84-31341
Observations on the sliding wear of ceramics
[DE84-012344] 21 p3372 N84-31395

SLIDING CONTACT
Hydrodynamic lubrication of rigid nonconformal contacts in combined rolling and normal motion
[NASA-TM-83578] 08 p1166 N84-17592

SLIDING FRICTION
Temperature analysis in lubricated simple sliding rough contacts
01 p0089 N84-10579
Surface contact wear and abrasive wear in lubricated sliding mechanisms
04 p0543 N84-13573
Measurement of friction and wear on modified surfaces
[AD-A132364] 04 p0544 N84-13583
Friction and morphology of magnetic tapes in sliding contact with nickel-zinc ferrite
[NASA-TP-2267] 07 p0977 N84-16334
Study of the lubrication mechanism of thin film lubricated concentrated steel contacts. The influence of pre-treatment of the steel on the load carrying capacity
[AD-A135067] 08 p1166 N84-17593
Ceramic wear in indentation and sliding
[NASA-TM-83585] 10 p1485 N84-19566
Mechanical contact induced transformation from the amorphous to the crystalline state in metallic glass
[NASA-TM-83583] 11 p1632 N84-20673
Dynamical threshold behavior of a sliding charge density wave
[DE84-004304] 11 p1745 N84-21389
A torque motor for a low friction single axis turntable — satellite attitude control tests
[NLR-MP-82036-U] 12 p1778 N84-21603
Friction and wear of iron in sulfuric acid
[NASA-TP-2289] 12 p1796 N84-21716
Friction and wear of nickel in sulfuric acid
[NASA-TP-2290] 12 p1797 N84-21721
Plane motion of solid body on rough surface of annular bearing rotating about its axis perpendicular to plane of motion
13 p1973 N84-22801
Antiwear additive mechanisms in sliding contacts
14 p2154 N84-23906
Improving slipring performance
15 p2347 N84-25086
Interaction of sulfuric acid corrosion and mechanical wear of iron
[NASA-TM-83717] 18 p2613 N84-27857
Abrasive wear of steel during sliding or rolling
[BLL-CE-TRANS-8003-(9022.09)]
19 p2991 N84-28956
Friction in low speed lubricated rolling and sliding contacts
[VTT-16] 20 p3199 N84-30318
Friction behavior of silicon in contact with titanium, nickel, silver and copper
[NASA-TP-2362] 23 p3723 N84-33590

SLIP
Slippery versus slip resistant work surfaces: The background for a regulatory definition
[PB83-243634] 04 p0516 N84-13392
Studies on age-hardening in spinodally modulated alloys: Experimental and theoretical
[DE84-004650] 09 p1285 N84-18390
Identification of strain-softening properties and computational predictions of localized fracture
[AD-A141866] 19 p3036 N84-29258

SLIP BANDS
U EDGE DISLOCATIONS

SLIP CASTING
The role of water in slip casting
[NASA-TM-77578] 14 p2134 N84-23786
Slip forms for the construction of PResesd CAst-in-Situ concrete linings for shield tunneling
[AD-A139411] 14 p2134 N84-23792

SLIP FLOW
An investigation of single-substance horizontal two-phase flow
[DE84-012292] 21 p3403 N84-31587
Simulation of the Kelvin-Helmholtz instability of a supersonic slip surface with the Piecewise-Parabolic Method (PPM)
[DE84-013219] 22 p3595 N84-32768

SLIPSTREAMS
NT PROPELLER SLIPSTREAMS
Optimizing the thrust deflecting surface for the pneumatic thrust deflector
[AD-A140612] 17 p2609 N84-26703

SLOPES
NT GLIDE PATHS
Family of airfoil shapes for rotating blades — for increased power efficiency and blade stability
[NASA-CASE-LAR-12843-1] 02 p0173 N84-11136
Occurrences of the polar Slant E Condition (SEC) at Narssarssuaq, Godhavn, Thule, 1981
[ISSN-0108-2922] 02 p0251 N84-11642
Turn-around loss for oceanic sound on a bottom slope
[AUWE-TN-705/83] 03 p0430 N84-12818
Reflection and identification studies applied to terrain imaging radar
[AD-A132401] 04 p0520 N84-13419
Use of radar image texture in geologic mapping
07 p0988 N84-16402
Visual slant misperception and the Black-Hole landing situation
[NASA-TM-85866] 07 p1049 N84-16795
A study of the dependence of radar backscatter cross section on wind speed and wave slope from the MARSEN experimental results (a contribution to studies of radar backscattering from the sea surface). Supplement to final report
[AD-A135041] 08 p1144 N84-17441
Wind erosion and dune formation on high frozen bluffs
13 p2082 N84-23493
Drainage evolution in the debris avalanche deposits near Mount Saint Helens, Washington
13 p2083 N84-23496
NASA-FAA helicopter Microwave Landing System curved path flight test
[NASA-TM-85933] 14 p2103 N84-23617
Studies of the behavior of a snow cover on mountain slope. 12: Curves Csubh and Csubv in a wedge-shaped snow cover
15 p2353 N84-25115
Studies of the behavior of a snow cover on mountain slope. 13: Curves Csubh and Csubv in a circular snow cover
15 p2353 N84-25116
Snow storm with strong wind in Antarctica
15 p2353 N84-25118
Turbulent structure of stably stratified nocturnal slope flows
[AD-A140740] 17 p2734 N84-27378
A fast interpolator with slope specification
[INPE-3058-PRE/478] 17 p2751 N84-27462

SLOSHING
U LIQUID SLOSHING

SLOT ANTENNAS
Slotted waveguide array antennas for spaceborne SAR applications
07 p0987 N84-16397
Study of wind scatterometer antenna for ERS-1. Volume 1: Executive summary report
[Y/A-3360] 13 p2017 N84-23080
Study of windscatterometer antenna for ERS-1
[MIX/A-3168] 13 p2018 N84-23081
Analysis of directivity as a function of scan angle for planar arrays of radiating slots
[AD-P003503] 21 p3383 N84-31471
Broadband cavity-backed slot using printed circuit technology
[AD-P003508] 21 p3384 N84-31476
Antenna performance verification at launch site. A feasibility study on preflight performance testing of stripline slot arrays mounted on a rocket
[AD-A143266] 22 p3577 N84-32653
Development of a slotted waveguide array panel for SAR antenna: Electrical design and testing
[IEC-MO-80/11] 23 p3732 N84-33656
A 360-degree scanning antenna with cylindrical array of slotted waveguides
[AD-D011189] 24 p3893 N84-34653

SLOTS
NT WING SLOTS
Slotted stick propellant study
13 p1948 N84-22664
Closed vessel combustion studies of stick propellant
13 p1948 N84-22665
Disturbances from ventilated tunnel walls in aerofoil testing
14 p2096 N84-23573
Analysis of directivity as a function of scan angle for planar arrays of radiating slots
[AD-P003503] 21 p3383 N84-31471
Computer studies of hybrid-slotted working sections with minimum interference at subsonic speeds
[NASA-TM-86002] 22 p3535 N84-32379
Axisymmetric thrust augmenting ejector with discrete primary air slot nozzles
[AD-D011129] 22 p3536 N84-32386

SLOTTED ANTENNAS
U SLOT ANTENNAS

SLOTTED WIND TUNNELS
Potential flow through a cascade of alternately displaced circular bodies: The rod-wall wind tunnel boundary conditions
[NASA-TM-85750] 11 p1601 N84-20487
Disturbances from ventilated tunnel walls in aerofoil testing
14 p2096 N84-23573

SLOW NEUTRONS
U THERMAL NEUTRONS

SLUDGE
NT ACTIVATED SLUDGE
Bacterial degradation of polychlorinted biphenyls in sludge from an industrial sewer lagoon
[NASA-TM-83543] 02 p0243 N84-11594
Investigation to diminish the heavy metal concentrations in sewage sludges with organic complexing reagents
[BMFT-FB-T-83-158] 07 p1027 N84-16660
Evaluation of process systems for effective management of aluminum finishing wastewaters and sludges
[PB84-170661] 16 p2520 N84-26178

SLURRIES
Development of enhanced heat transfer/transport/storage slurries for thermal-system improvement
[DE83-009688] 01 p0081 N84-10525
Fischer-Tropsch synthesis in slurry reactors: Summary and analysis of the state of the art
[CSIR-CENG-432] 04 p0493 N84-13234
Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] 07 p0967 N84-16266
Kinetic-elastic approach for time-dependent rheological data on slurry fuels and polymers
[AD-A141210] 18 p2821 N84-27911
Magnesia refractories produced from chemically modified periclase grains and Mg(OH)2 slurries
[PB84-178979] 20 p3165 N84-30099
Liquid suspensions of reversible metal hybrides
[DE84-014358] 24 p3881 N84-34586

SLURRY PROPELLANTS
Injection, atomization, ignition and combustion of liquid fuels in high-speed air streams
[AD-A133806] 05 p0648 N84-14264
Combustion of agglomerates formed by carbon slurry fuels
[AD-A136390] 09 p1278 N84-18345

SMELL
U OLFACTORY PERCEPTION

SMELTING
Iron and steel (selected articles)
[AD-A135576] 09 p1282 N84-18376

SMOKE
Development of a calorimeter forimultaneously measuring heat release and mass loss rates
[PB83-222711] 01 p0085 N84-10555
Proceedings of the 6th Joint Panel Meeting: UJNR Panel on Fire Research and Safety 04 p0510 N84-13341
Fire and smoke retardants 04 p0510 N84-13343
Building systems and smoke control
04 p0511 N84-13348
Smoke inhalation injury 04 p0511 N84-13350
Human behavior 04 p0511 N84-13351
Human behavior 04 p0511 N84-13352
Studies of emotional instability in smoke from fires: Decrease of thinking powers and of memory in fire smoke 04 p0511 N84-13355
A study on sound guidance for evacuation: Effect of megaphoned evacuation guidance in smoke
04 p0512 N84-13356
On smoke control experiments
04 p0514 N84-13379
Fire management-suppression system-concepts relating to aircraft cabin fire safety
[FAA-CT-82-134] 05 p0628 N84-14130
Transport and diffusion of buoyant material
[AD-A132613] 05 p0708 N84-14642
An analysis of potential protective breathing devices intended for use by aircraft passengers
[AD-A132648] 05 p0716 N84-14692
The effect of smoking on the non-specific resistance of the organism of seamen at sea
08 p1199 N84-17816
Investigation of the usefulness of the smoke generator Draeger model MK V for fire services exercises onboard ships
[PML-1983-6] 12 p1804 N84-21759
The design and development of a low emissions transply combustor for the civil Spey engine
15 p2292 N84-24755
Hazardous conditions in single enclosures subjected to fire
[FOA-C-20524-D6] 15 p2305 N84-24831
Visual obscuration by smoke screens: Results of the Oldebroek 2 trials, May 1981 Part 1: Theory, methods and photometric analysis
[IZF-1984-10] 19 p3105 N84-29730

SMOKE ABATEMENT
The use of fuel additives to control plume opacity of turbine engine test cells
[AD-A130777] 01 p0053 N84-10339

SMOKE DETECTORS
Forward multiple scattering corrections as function of detector field of view
[AD-A130631] 01 p0106 N84-10686
Hazardous conditions in single enclosures subjected to fire
[FOA-C-20524-D6] 15 p2305 N84-24831

SMOKE TRAILS
Determination of stratospheric wind profiles by digital analysis
[AD-A140502] 16 p2531 N84-26251
SMOOTHING
NT DATA SMOOTHING
The smoothest velocity field and token matching schemes
[AD-A133633] 05 p0732 N84-14809
Estimation of posterior probabilities using multivariate smoothing splines and generalized cross-validation
[AD-A134518] 07 p1062 N84-16884
Smoothing, regularization and ill-posed inverse problems; robust and convex estimation of functions of several variables
[AD-A137810] 11 p1714 N84-21176
A bivariate C-2 Clough-Tocher scheme
[AD-A137930] 11 p1715 N84-21183
Multigrid techniques: The 1984 guide with applications to fluid dynamics 16 p2491 N84-25981
Least-squares smoothing of direct-exchange in zonal analysis
[DE84-002612] 22 p3595 N84-32770
SMS
U SYNCHRONOUS METEOROLOGICAL SATELLITE
SMS 2
Maps of favorable areas for tuna fishing in the southwestern Atlantic prepared from satellite data
[INPE-2891-PRE/410] 02 p0239 N84-11565
SNAP
NT SNAP 8
SNAP 8
Surplus Facilities Management Program. Post-remedial-action survey report for SNAP-8 Experimental Reactor Facility, building 010 site, Santa Susana Field Laboratories, Rockwell International, Ventura County, California
[DE84-009591] 21 p3497 N84-32165
SNATCHING
U SPACECRAFT RECOVERY
SNELLS LAW
A horizontal range versus depth solution of sound source position under general sound velocity conditions using the Lloyd's mirror interference pattern
[AD-A134097] 05 p0742 N84-14875
Non-destructive evaluation of composite materials using ultrasound
[NASA-CR-173416] 13 p1999 N84-22969
Trajectories of radio waves in linear layer with isometric inhomogeneities 17 p2631 N84-26833
SNOW
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F. Cape Romanzof AFS, Alaska
[AD-A130206] 01 p0107 N84-10698
Solar radiative impacts of graphitic carbon (soot) in aerosols, clouds and snow 02 p0243 N84-11592
Predictability of time averages: The influence of the boundary forcing
[NASA-TM-85092] 02 p0248 N84-11624
Snow cover and meteorology at Allagash, Maine, 1977 - 1980
[AD-A132013] 03 p0410 N84-12684
Snow characterization instruments
[AD-A131984] 03 p0411 N84-12687
Satellite observations of variations in southern hemisphere snow cover
[PB83-252908] 04 p0568 N84-13745
Growth processes of snow
[AD-A133138] 06 p0866 N84-15639
LANDSAT-D investigations in snow hydrology
[E84-10074] 07 p1021 N84-16621
Synoptic meteorology during the SNOW-ONE-A field experiment
[AD-A134888] 08 p1191 N84-17762
Probable maximum precipitation and snowmelt criteria for southeast Alaska
[PB84-104371] 08 p1193 N84-17777
On the dielectric properties of dry snow in the 800 MHz to 13 GHz range — remote sensing
[REPT-S-135] 09 p1337 N84-18733
Acid precipitation in southeastern Wyoming
[PB84-132521] 10 p1533 N84-20039
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Dyess AFB, Texas
[AD-A137575] 11 p1685 N84-20991
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Part A-F: Phillips, Aberdeen, Maryland
[AD-A137577] 11 p1685 N84-20993
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Gela, Italy
[AD-A137578] 11 p1686 N84-20994
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Dhahran, Saudi Arabia
[AD-A137580] 11 p1686 N84-20995
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Andersen AFB, Guam
[AD-A137583] 11 p1686 N84-20996
Melting layer survey
[AD-A137911] 11 p1687 N84-21003
LANDSAT-D investigations in snow hydrology
[E84-10094] 13 p2003 N84-22997
Atmospheric model development
13 p2004 N84-22998
Low Temperature Science. Series A: Physical Science
[ISSN-0439-3538] 15 p2352 N84-25112
Studies of the behavior of a snow cover on mountain slope. 12: Curves Caubh and Caubv in a wedge-shaped snow cover 15 p2353 N84-25115
Studies of the behavior of a snow cover on mountain slope. 13: Curves Caubh and Caubv in a circular snow cover 15 p2353 N84-25116
MEM spectrum analysis of snow densities
15 p2353 N84-25117
Snow storm with strong wind in Antarctica
15 p2353 N84-25118
Hardness of wet snow, 2 15 p2353 N84-25119
Simultaneous observation of snowfall intensity and visibility in winter at Sapporo 15 p2354 N84-25125
Crystal growth of artificial snow
18 p2799 N84-27763
Temperature response of cryosphere area in northern hemisphere 18 p2856 N84-28138
SNOW-ONE-A and B characterization measurements and data analysis
[AD-A141245] 18 p2890 N84-28345
Backscatter measurements on snow covered terrain at 94 GHz — radar
[REPT-4-84] 20 p3172 N84-30144
A probabilistic model for predicting the duration of levels of electromagnetic transmission in falling snow: Environmental research papers
[AD-A143318] 22 p3577 N84-32655
Radiation measurement of snowy season in 1982-1983 at Sapporo 23 p3762 N84-33845
The dielectric behavior of snow in the 3 to 37 GHz range 23 p3768 N84-33884
SNOW COVER
Meteorological and climatological approach in determining snowpack accumulation at snow course sites in a Montana watershed
[PB83-226852] 01 p0110 N84-10714
LANDSAT-D investigations in snow hydrology
[E84-10004] 02 p0235 N84-11545
Microwave remote sensing of snow experiment description and preliminary results
[E84-10009] 02 p0236 N84-11547
Snowpack ground-truth manual
[NASA-CR-170584] 02 p0239 N84-11569
Snow cover and meteorology at Allagash, Maine, 1977 - 1980
[AD-A132013] 03 p0410 N84-12684
In-flight absolute radiometric calibration of the thematic mapper
[E84-10044] 04 p0552 N84-13637
Satellite observations of variations in southern hemisphere snow cover
[PB83-252908] 04 p0568 N84-13745
Economic benefits of operational environmental satellites
[PB83-252932] 04 p0569 N84-13748
Introduction: Historical perspective on the HCMM program 05 p0695 N84-14564
Snow thickness and brightness temperature on multi-year ice
[AD-A133940] 06 p0884 N84-15747
Remote sensing and hydrologic models
[E84-10082] 07 p1022 N84-16628
Strategies for using remotely sensed data in hydrologic models 07 p1022 N84-16630
Snow and ice monitoring by microwave techniques
08 p1176 N84-17660
Spatial and temporal distribution of Northern Hemisphere snow cover
[PB84-116348] 09 p1350 N84-18819
Acid precipitation in southeastern Wyoming
[PB84-132521] 10 p1533 N84-20039
Scattering models in the microwave regime
12 p1831 N84-21937
Studies of the behavior of a snow cover on a mountain slope. 14: Poisson's ratio of snow, 2
15 p2353 N84-25120
Estimation of melting rate of snow by simple formulae using only air temperature 15 p2353 N84-25121
Optical properties of melting snow, 1
15 p2354 N84-25122
Water balance at a small watershed during the snowmelt season, 1 15 p2354 N84-25123
Water balance at a small watershed during the snowmelt season. 2: Runoff analysis 15 p2354 N84-25124
Characteristics of snow cover on sea ice and formation of snow ice 15 p2354 N84-25126
Snow reflectance from LANDSAT-4 Thematic Mapper
20 p3216 N84-30426
San Juan Mountains avalanche study: Evaluation and prediction of avalanche hazard, meteorological and avalanche observations
[PB84-202704] 21 p3432 N84-31778
Report of pit-wall observations of snow cover in Sapporo, 1982 - 1983 23 p3762 N84-33843
Snow cover observations at Avalanche Research Station, Tokanbetsu, northern Hokkaido, 15 (1982-1983 winter) 23 p3762 N84-33844
The dielectric behavior of snow in the 3 to 37 GHz range 23 p3768 N84-33884
SNOWPLOW EFFECT
U PLASMA DYNAMICS
SNOWSTORMS
Analysis of AFGL aircraft icing data
[AD-A137197] 10 p1539 N84-20087
Simultaneous observation of snowfall intensity and visibility in winter at Sapporo 15 p2354 N84-25125
SOBOLEV SPACE
Solvability of the leakage problem for the hydrodynamic Euler equations in Sobolev spaces
07 p1000 N84-16485
Bounded Hessian functions 22 p3636 N84-33048
Existence and equivalence of solutions of mixed problems for Euler's hydrodynamic equations
[ISSN-0208-5658] 23 p3745 N84-33738
SOCIAL FACTORS
CAD/CAM: Influencing the skilled trades
[DE83-015188] 01 p0125 N84-10812
A comparative evaluation of quantitative decision-making approaches
[PB83-214114] 01 p0159 N84-11051
Technology assessment of productive conservation in urban transportation
[DE83-012179] 01 p0163 N84-11070
Systems dynamics: Recent technical advances and current projects
[INPE-2846-PRE/388] 02 p0286 N84-11874
To quench our thirst: The present and future status of freshwater resources of the United States, part 3
[DE83-016791] 03 p0401 N84-12625
Positive and negative reinforcement effects on behavior in a three-person microsociety
[NASA-CR-173164] 09 p1363 N84-18902
A normative model of work team effectiveness
[AD-A136398] 10 p1551 N84-20165
Societal versus individual decision making: How they might differ
[IZF-1983-20] 12 p1867 N84-22166
Social support and performance in complex organizations
[AD-A138888] 14 p2186 N84-24096
A sociotechnical communications model for command and control
[AD-P003238] 18 p2902 N84-28405
Thought control from parenting, to behavior mod, to cults, to brainwashing
[AD-P003240] 18 p2903 N84-28407
Relevant and irrelevant legal structures: Distinguishing private sector from DOD contracting
[AD-P003241] 18 p2903 N84-28408
Scientific and technical training in the Soviet Union
[NASA-TM-86252] 18 p2954 N84-28725
Presbycusis, sociocusis, and nosocusis
19 p3069 N84-29471
The impact of a computerized network on the quality of work life in two college of advanced education libraries in New South Wales 19 p3115 N84-29792
Academician Vamos interviewed on automation related problems 24 p3944 N84-34972
SOCIAL ISOLATION
Some psychological consequences of prolonged social isolation 15 p2376 N84-25257
Thought control from parenting, to behavior mod, to cults, to brainwashing
[AD-P003240] 18 p2903 N84-28407
A systematic comparative analysis of conditions analogous to long-duration space missions
[AD-P003353] 18 p2912 N84-28469
SOCIOLOGY
NT SOCIAL FACTORS
Performance appraisal revisited
[AD-A132841] 06 p0932 N84-16059
Equal weights, flat maxima, and trivial decisions
[AD-A138506] 12 p1895 N84-22342

Aeronautical Engineering: A continuing bibliography with indexes (supplement 175)
[NASA-SP-7037(175)] 19 p2955 N84-28726
Directory of computerized data files, 1984
[PB84-160126] 21 p3520 N84-32303

SODAR
A comparison of frequency determination using real sodar data
[DE83-017942] 04 p0564 N84-13718
Comparison of qualitative and quantitative measurements of temperature turbulence with monostatic sodar 18 p2865 N84-28188

SODIUM
NT LIQUID SODIUM
NT SODIUM VAPOR
High pressure equation of state of Li, Na and K
[DE83-014844] 02 p0191 N84-11238
Piston-displacement equations of state for sodium, potassium, and rubidium metals to 20 kbar from 300 K to 4 K
[DE83-018079] 03 p0347 N84-12252
Development of new intercalated cathode materials for use in sodium batteries
[NASA-CR-173145] 07 p0997 N84-16460
Cellular localization of Na(+), K(+)-ATPase in the mammalian vestibular system 09 p1359 N84-16880
Voltammetric studies of Zomepirac sodium and its determination in tablets by differential-pulse polarography
[AD-A136962] 10 p1455 N84-19499
Solid electrolyte degradation: Problems and solutions
[DE84-002916] 10 p1457 N84-19514
Effects of dietary sodium intake on body and muscle potassium content in unacclimatized men during successive days of work in the heat 10 p1549 N84-20153
A laboratory manual for the determination of metals in water and wastewater by atomic absorption spectrophotometry
[CSIR-TECH-GUIDE-K63] 11 p1628 N84-20863
Tidal oscillations in the atmospheric sodium layer
[INPE-3008-PRE/454] 12 p1846 N84-22033
Critical slowing down and magnetically-induced self-pulsing in a sodium-filled Fabry-Perot resonator 14 p2240 N84-24449
Perspective of the corrosive behavior of lithium and sodium
[DE84-011635] 21 p3367 N84-31362
Sodium compatibility of refractory metal alloy/304L braze joints
[DE84-012877] 21 p3368 N84-31364
Sloshing response of a reactor tank with internals
[DE84-009629] 22 p3595 N84-32766
Solar tides in the mesospheric sodium layer
[INPE-2942-TDL/151] 22 p3622 N84-32953
A modeling analysis program for the JPL Table Mountain Io sodium cloud data
[NASA-CR-173971] 23 p3844 N84-34386

SODIUM ALLOYS
Transport behavior of multivalent beta aluminas 11 p1743 N84-21370

SODIUM CARBONATES
Exercise in the heat. Effects of saline or bicarbonate infusion
[AD-A137194] 11 p1696 N84-21061

SODIUM CHLORIDES
Stress-corrosion behavior of aluminum-lithium alloys in aqueous environments
[NASA-TM-85853] 02 p0193 N84-11256
Equations of state for the alkali metals, with generalizations to NaCl
[DE83-018075] 03 p0351 N84-12260
Development of multicomponent transport theory and transport data for membranes in concentrated electrolytes
[DE84-001846] 04 p0495 N84-13249
Thermodynamics of aqueous sodium chloride to 823 K and 1 kbar
[DE84-001841] 06 p0927 N84-16019
The effect of some water-displacing corrosion preventatives on corrosion of aluminum alloys 7075-T651 and 2024-T6
[ARL-MAT-REPT-115] 07 p0973 N84-16307
Optical detection loss due to air-borne salts on Diego Garcia
[AD-A136120] 09 p1346 N84-16792
Density of sodium chloride solutions at high temperatures and pressures
[DE84-004883] 10 p1456 N84-19508
Investigation into the role of sodium chloride deposited on oxide and metal substrates in the initiation of hot corrosion
[NASA-CR-173377] 11 p1633 N84-20676
Exercise in the heat. Effects of saline or bicarbonate infusion
[AD-A137194] 11 p1696 N84-21061
Thermal properties of binary aqueous solutions at high temperatures and high pressure
[BMFT-FB-T-83-217] 12 p1794 N84-21701
A technique for increasing the optical strength of single-crystal NaCl and KCl through temperature cycling
[AD-A136260] 12 p1820 N84-21867
Salts in the dry valleys of Antarctica 13 p2085 N84-23510
Characteristics of snow cover on sea ice and formation of snow ice 15 p2354 N84-25126
A cluster model for the determination of the state of impurities in crystal
[INPE-3048-PRE/471] 16 p2559 N84-26420

SODIUM COMPOUNDS
NT SODIUM CARBONATES
NT SODIUM CHLORIDES
NT SODIUM HYDROXIDES
NT SODIUM NITRATES
NT SODIUM SILICATES
NT SODIUM SULFATES
Principles of superionic conduction
[DE84-001215] 04 p0613 N84-14044
Catalysis of nitramine propellants by mmtal borohydrides
[AD-A133215] 06 p0812 N84-15285
Permeability of sodium sulfacyl through membrane structures differing in degree of organization with exposure to low-frequency magnetic field 07 p1043 N84-16763
Particle scattering studies on foreign ions in superionic conductors
[AD-A137231] 10 p1588 N84-20406
Deflocculation of clay suspensions using sodium polyacrylates
[NASA-TM-77432] 14 p2121 N84-23712

SODIUM HYDROXIDES
No. 263 chemical and electrochemical properties in molten alkaline hydroxides. 11: Potential-acidity diagram for iron in molten sodium hydroxide at 350 deg C
[BLL-RISLEY-TR-4761-(9091.9F)] 01 p0036 N84-10228
Characterization of high-temperature vapor-phase species and vapor-solid interactions of import to combustion and gasification processes in the energy technologies
[DE83-015166] 04 p0494 N84-13242
Improvements in the process of dehydrating hydrazine by sodium hydroxide
[INPE-3198-PRE/561] 23 p3712 N84-33531

SODIUM NITRATES
Research in energetic compounds
[AD-A137484] 10 p1454 N84-19497

SODIUM SILICATES
Structure of glasses containing transition metal ions
[DE84-004211] 10 p1468 N84-19591
Reaction kinetics in glass melts. Corrosion of SiO-2. TEXUS 4 project 18 p2819 N84-27900

SODIUM SULFATES
Sodium-sulfate solubilities in high-temperature (250 to 3740C) salt and acid solutions
[DE83-015813] 02 p0191 N84-11241
Mechanism of corrosion of Ni base superalloys by molten Na2MoO4 at elevated temperatures
[NASA-TM-83580] 11 p1632 N84-20672
Investigation of the crystallization kinetics of an incongruent melting salt hydrate under metastable conditions
[DE84-008666] 19 p3112 N84-29771
Corrosion of 5083 aluminum by aqueous sodium sulfate
[DE84-012033] 20 p3156 N84-30045
Environmentally-controlled crack growth rate of type 304 stainless steel in high temperature sulfate solutions 21 p3364 N84-31342
Deposition of Na2SO4 from salt-seeded combustion gases of a high velocity burner rig
[NASA-TM-83751] 21 p3398 N84-31558

SODIUM SULFUR BATTERIES
Report of the research assistance task force on beta-alumina for sodium-sulfur batteries
[DE83-013616] 01 p0074 N84-10486
The sodium sulfur battery system: Investigation of the solid electrolyte beta alumina
[BMFT-FB-T-83-123] 02 p0216 N84-11416
Moderate temperature rechargeable NaNiS2 cells 11 p1744 N84-21376
The preparation of sodium beta-alumina by the isostatic pressing and zone sintering of spray dried powders 11 p1744 N84-21377
Glass electrolytes for sodium/sulfur cells
[DE84-013428] 21 p3394 N84-31539
Project summaries, supplement
[DE84-013678] 23 p3744 N84-33734

SODIUM VAPOR
Theoretical studies of solar-pumped lasers
[NASA-CR-173283] 08 p1164 N84-17576
Polarization switching with sodium vapour 14 p2239 N84-24445

SOFT LANDING SPACECRAFT
NT ASTRO VEHICLE

SOFTENING
Analysis of shear strain localization in thermal visco-plastic materials
[AD-A138186] 12 p1798 N84-21727

SOFTWARE (COMPUTERS)
U COMPUTER PROGRAMS
U COMPUTER SYSTEMS PROGRAMS

SOFTWARE ENGINEERING
NT ASSEMBLER ROUTINES
NT COMPUTER PROGRAMMING
NT LANGUAGE PROGRAMMING
NT LOGIC PROGRAMMING
NT MICROPROGRAMMING
NT MULTIPROGRAMMING
NT ON-LINE PROGRAMMING
NT PARALLEL PROGRAMMING
NT SYMBOLIC PROGRAMMING
Formal techniques in the management of software design
[AD-A132569] 04 p0579 N84-13618
Software engineering — conference
[ESA-SP-199] 05 p0721 N84-14729
Integrated Software Engineering Facilities (ISEF) 05 p0721 N84-14730
The Integrated Software Engineering Facilities (ISEF) software configuration management system 05 p0722 N84-14732
The software engineering environment project model (PROMOD) 05 p0722 N84-14737
Practical experience of engineering software production to a structured programming standard 05 p0723 N84-14744
Software engineering techniques employed in on-schedule completion of Meteosat-2 software 05 p0723 N84-14746
European community support to software engineering development through Ada activities and ESPRIT 05 p0724 N84-14747
Coherent management support in the Ada environment 05 p0724 N84-14748
The PET/MAESTRO: A user's view — software design system 05 p0724 N84-14750
A host-target programming support environment for the production of high-quality real-time systems 05 p0724 N84-14753
The software engineering prototype
[AD-A132612] 05 p0728 N84-14782
Towards a modularity of software conceived for the requirement of the user 06 p0789 N84-15040
CASCADE: A design environment for future avionic systems 06 p0772 N84-15057
Sparse Matrix Software Catalog
[AD-A133559] 06 p0898 N84-15830
SAGA: A project to automate the management of software production systems
[NASA-CR-173206] 07 p1054 N84-16823
The dynamics of software development project management: An integrative systems dynamic perspective
[NASA-CR-175342] 07 p1054 N84-16824
Microcomputer software system development: Suggested revisions to MIL-STD-1521A for cost-effective acquisition of custom software through software engineering
[AD-A134363] 07 p1055 N84-16830
Software parts in FORTRAN 8X
[DE84-003621] 07 p1055 N84-16833
IMCS reflight certification requirements and design specifications
[NASA-CR-170968] 08 p1102 N84-17167
Space Station Technology, 1983
[NASA-CP-2293] 09 p1268 N84-18277
Data management 09 p1269 N84-18287
Research in programming languages and software engineering
[AD-A136037] 09 p1369 N84-18937
Guide to software conversion management
[PB84-118314] 09 p1370 N84-18945
Guidance on software maintenance
[PB84-128951] 09 p1371 N84-18952
Finite element grid optimization
[AD-A136025] 09 p1378 N84-19001
A layered communication system for ethernet
[AD-A136799] 10 p1481 N84-19676
Protocol software for a packet voice terminal
[AD-A136938] 10 p1481 N84-19678
Cray/VAX interactive graphics system
[DE84-003826] 10 p1564 N84-20249
Ray modeling methods for range dependent ocean environments
[AD-A137202] 10 p1569 N84-20278

Application of methods of numerical and software engineering analysis to physical and engineering data collected in a variety of laboratory and field measurement programs
[AD-A137863] 11 p1682 N84-20975

Distributed processing tools definition. Volume 1: Hardware and software technologies for tightly-coupled distributed systems
[AD-A137686] 11 p1704 N84-21105

Distributed processing tools definition. Volume 2: Application of software engineering technology
[AD-A137687] 11 p1704 N84-21106

A practical guide to MAXLIK
[RAND/N-1914-RC-REV] 11 p1706 N84-21118

Accuracy of software development activity data: The software cost reduction project
[AD-A137639] 11 p1706 N84-21122

A revised STONEMAN for distributed Ada (trademark) support environments
[AD-A137940] 11 p1707 N84-21127

Flexible automated waveform recorder data acquisition program
[DE84-005553] 11 p1709 N84-21141

Development of a communications Front End Processor (FEP) for the VAX-11/780 using an LSI-11/23
[AD-A138152] 12 p1807 N84-21778

The implementation and use of Ada on distributed systems with high reliability requirements
[NASA-CR-175413] 12 p1876 N84-22228

A syntax directed editor environment
[AD-A138009] 12 p1879 N84-22248

Sire: An automated software development environment
[AD-A138022] 12 p1879 N84-22249

Analyzing program methodologies using software science
[AD-A138121] 12 p1881 N84-22259

Report of findings and recommendations: Software Engineering Institute Study Panel
[AD-A138282] 12 p1882 N84-22267

Materials properties data base computerization
12 p1889 N84-22303

Software Engineering Laboratory (SEL) data base reporting software user's guide and system description. Volume 1: Introduction and user's guide
[NASA-TM-85608] 13 p2025 N84-23129

Software Engineering Laboratory (SEL) data base reporting software user's guide and system description. Volume 2: Program descriptions
[NASA-TM-85609] 13 p2025 N84-23130

An approach to software cost estimation
[NASA-TM-85607] 13 p2026 N84-23136

Proceedings of the Eighth Annual Software Engineering Workshop
[NASA-TM-85445] 13 p2026 N84-23137

Current research in the Software Engineering Laboratory (SEL) 13 p2026 N84-23138

Monitoring software development through dynamic variables 13 p2027 N84-23139

Characteristics of a prototype experiment
13 p2027 N84-23140

Examining functional acceptance testing with structural coverage metrics 13 p2027 N84-23142

Testing and error analysis of a real-time controller
13 p2027 N84-23144

Transformations of software design and code may lead to reduced errors 13 p2027 N84-23145

Cleanroom certification model
13 p2028 N84-23147

Projecting manpower to attain quality
13 p2028 N84-23148

An approach to software baseline generation
13 p2028 N84-23149

Documentation for software maintenance
[AD-A138663] 13 p2028 N84-23152

Software engineering for user interfaces
[AD-A138937] 13 p2029 N84-23155

Air operations language for military space ground systems
[AD-P002146] 14 p2137 N84-23811

Mission operations impact of specific shuttle vehicle improvements
[AD-P002152] 14 p2138 N84-23817

A guidebook for software reliability assessment
[AD-A139240] 14 p2205 N84-24233

Software improvement process: Its phases and tasks. Part 1: Text. Part 2: Appendices
[PB84-162460] 14 p2206 N84-24242

Burroughs Corporation B7800, Large Systems BASIC 3.4.1
[PB84-157379] 14 p2208 N84-24254

Software tools survey
[PB84-145572] 14 p2208 N84-24256

Validation summary report, Data General Corporation, Eclipse MV/8000, AOS/VS COBOL revision 2.18
[PB84-156116] 14 p2208 N84-24258

Validation summary report, NCR Corporation, NCR V8585, VRX FORTRAN version 25
[PB84-156108] 14 p2209 N84-24259

Certifying onboard software: A total progressive approach 15 p2269 N84-24625

Photogrammetric research
[TRITA-FMI-47] 15 p2358 N84-25146

General triangulation: Incorporating photogrammetric and other observations 15 p2358 N84-25151

GENTRI: A system for simultaneous adjustment of photogrammetric and other observations
15 p2358 N84-25152

Investigation, development, and evaluation of performance proving for fault-tolerant computers
[NASA-CR-166008] 15 p2385 N84-25307

Hierarchical design and verification for VLSI
15 p2388 N84-25323

A guide to macro and micro computer performance evaluation
[AD-A140127] 15 p2389 N84-25329

Engineering programming at the Ecole Nationale Superieure des Telecommunications (ENST): Particularities and tendencies
[ENST-C-83004] 15 p2390 N84-25338

Automating the transformational development of software, volume 1
[AD-A139860] 15 p2392 N84-25355

Automating the transformational development of software. Volume 2: Appendices
[AD-A139918] 15 p2392 N84-25356

Integrated systems of manufacture (robotics) technology working group report (IDA/OSD Rand M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study)
[AD-A140304] 16 p2477 N84-25878

Planning an experiment for digital image processing
16 p2490 N84-25976

A software package for administering and monitoring the Environmental Symptoms Questionnaire (ESQ-3)
[AD-A140288] 16 p2538 N84-26293

Measures and metrics for software development
[NASA-TM-85605] 16 p2543 N84-26323

Airline experience with avionic software development for aircraft integrated data systems
17 p2587 N84-26581

Middle Atmosphere Program. Handbook for MAP, volume 9
[NASA-CR-173439] 17 p2682 N84-27076

The economics of data acquisition computers for ST and MST radars 17 p2683 N84-27084

Software development based on multigrid techniques
[GMD-84] 17 p2751 N84-27459

Software psychology: The need for an interdisciplinary program
[PB84-176718] 17 p2755 N84-27486

Comparing software development methodologies for Ada (trade name): A study plan
[PB84-178029] 17 p2755 N84-27491

Microprocessor devices for analog signal processing
18 p2824 N84-27928

An implementation of the programming structural synthesis system (PROSSS)
[NASA-TM-83180] 18 p2920 N84-28517

A cost data base for the development of technical/scientific software
[NLR-TR-83047-U] 18 p2922 N84-28529

User-system interface design in system acquisition
[AD-A140956] 18 p2943 N84-28664

Integrated Application of Active Controls (IAAC) technology to an advanced subsonic transpot project-demonstration act system definition
[NASA-CR-165920] 19 p2967 N84-28804

Reuse in the context of a transformation based methodology
[AD-A141514] 19 p2984 N84-28910

Software reliability: Additional investigations into modeling with replicated experiments
[NASA-CR-172378] 19 p3074 N84-29502

Specification and transformation: Automated implementation
[AD-A141064] 19 p3074 N84-29505

Software support for fully Distributed/Loosely coupled processing systems, volume 1
[AD-A141500] 19 p3076 N84-29518

SREM (Software Requirements Engineering Methodology) evaluation, volume 1
[AD-A141631] 19 p3077 N84-29525

SREM (Software Requirements Engineering Methodology) evaluation. Volume 2: Specifications and technical data
[AD-A141632] 19 p3078 N84-29526

Computer graphics support service
[DE84-010001] 19 p3079 N84-29540

Vectorized sparse elimination
[AD-A141131] 19 p3095 N84-29657

Computer science and technology: Introduction to software packages
[NBS-SP-500-114] 20 p3268 N84-30740

CHART and SKETCH: An interactive computer graphics program
[AD-A141997] 20 p3269 N84-30744

DCP (Distributed software engineering control process): Experience in bootstrapping an Ada (trademark) environment
[AD-P003424] 20 p3270 N84-30758

Experience with Ada (trademark) for the Graphical Kernel System
[AD-P003426] 20 p3271 N84-30758

An advanced host-target environment for the military computer family
[AD-P003428] 20 p3271 N84-30760

Ada (trademark) as a program design language: Have the major issues been addressed and answered?
[AD-P003430] 20 p3271 N84-30762

Seeding the Ada (trademark) software components industry
[AD-P003432] 20 p3272 N84-30764

Ada (Registered trademark) training curriculum. Software engineering for managers. M101: Teachers exercise guide
[AD-A142429] 20 p3272 N84-30767

Ada (registered trademark) training curriculum. Ada (registered trademark) for software managers, L201. Teachers' guide: Volume 1
[AD-A142430] 20 p3272 N84-30768

Ada (registered trademark) training curriculum. Ada (registered trademark) for software managers, L201. Teachers guide: Volume 2
[AD-A142431] 20 p3272 N84-30769

Ada (Registered trademark) training curriculum. Software engineering for managers. M101: Teachers guide
[AD-A142432] 20 p3272 N84-30770

Guide to graphics at ANL, revised
[DE84-013189] 20 p3274 N84-30786

Singular value decomposition with systolic arrays
[NASA-CR-172396] 20 p3279 N84-30817

Software modifications to the Demonstration Advanced Avionics Systems (DAAS)
[NASA-TM-85942] 21 p3327 N84-31105

Software control and system configuration management: A systems-wide approach
[NASA-TM-85908] 21 p3328 N84-31112

System planning tool to measure cost avoidance resulting from independent assessment techniques applied to test program software development
[AD-P003588] 21 p3340 N84-31193

A corporate approach to an embedded software development and support standard
[AD-P003589] 21 p3340 N84-31194

MIL-STD defense system software development
[AD-P003590] 21 p3341 N84-31195

Cost/schedule management for software development
[AD-P003591] 21 p3341 N84-31196

Planning of operational software implementation tool
[AD-P003595] 21 p3341 N84-31200

Thermodynamic field theory of the dynamic behavior of bipolar junction transistors 21 p3390 N84-31510

A computerized system for establishing electric-vehicle battery requirements
[DE84-011728] 21 p3395 N84-31545

A device-dependent interface for interactive image display
[NASA-TM-86136] 21 p3461 N84-31949

DEC LSI-11/HP9895A software
[DE84-012412] 21 p3462 N84-31952

Software design issues in the implementation of hierarchical display editors 21 p3463 N84-31953

The implementation and use of Ada on distributed systems with high reliability requirements
[NASA-CR-173841] 21 p3463 N84-31954

Fault tolerant software modules for SIFT
[NASA-CR-165874] 21 p3463 N84-31955

Accounting utility for determining individual usage of production level software systems
[NASA-CR-172414] 21 p3464 N84-31959

Guidelines for testing and release procedures
[NASA-CR-166581] 21 p3464 N84-31962

Reflight certification software design specifications
[NASA-CR-171138] 21 p3465 N84-31966

A software scheme for managing magnetic tape storage space
[AD-A142847] 21 p3465 N84-31969

Automated Construction Management System (ACMS). Volume 2: Program documentation
[AD-A143032] 21 p3466 N84-31972

Guidelines for software production in developed countries
[PB84-202795] 21 p3467 N84-31986

Software progress tracking system
[AD-P003488] 21 p3513 N84-32255

User-friendly software: The role of the user
[AD-P003489] 21 p3514 N84-32256
Automated software testing
[AD-P003496] 21 p3515 N84-32264
Automatic audit information system for software development
[AD-P003499] 21 p3515 N84-32265
Software conversion history of the Flight Dynamics System (FDS)
[NASA-CR-175257] 22 p3539 N84-32404
Summary of research in applied mathematics, numerical analysis and computer science at the Institute for Computer Applications in Science and Engineering
[NASA-CR-172421] 22 p3633 N84-33024
Research in computer science
[NASA-CR-173857] 22 p3637 N84-33056
Editing by example 22 p3639 N84-33070
Prolonging the life of software
[DE84-001722] 22 p3641 N84-33068
S-1 software development and maintenance
[DE84-013071] 22 p3642 N84-33091
System analysis for the Huntsville Operational Support Center distributed computer system
[NASA-CR-171136] 22 p3643 N84-33097
NATURAL graphics 22 p3672 N84-33274
Detailed system studies on rendezvous and docking. Part 1: Executive summary
[ESA-CR(P)-1604-PT-1] 23 p3697 N84-33428
Study on the perturbation of lunar and planetary orbiters
[MATRA-CMT-RT005] 23 p3697 N84-33429
System operations, book 6
[NAS 1.15:86652-BK-6] 23 p3699 N84-33442
Development of hardware and software for automatic optical surface inspection with laser scanners
[BMFT-FB-T-84-111] 23 p3755 N84-33805
Simple microprogrammed controllers: An alternate approach
[INPE-3089-PRE/486] 23 p3812 N84-34171
Methodology for software maintenance
[AD-A143763] 23 p3815 N84-34192
A standard organization for specifying abstract interfaces
[AD-A143787] 23 p3815 N84-34194
Software Implemented Fault-Tolerant (SIFT) user's guide
[NASA-TM-86289] 23 p3817 N84-34199
Software support for a video disc based terrain map display system
[AD-A143700] 23 p3834 N84-34324
Laboratory 23 p3842 N84-34375
Application of advanced parameter identification methods for flight flutter data analysis with comparisons to current techniques 24 p3848 N84-34401
Standardization in software conversion of (ROM) estimating 24 p3862 N84-34475
Analysis of Doppler lidar wind measurements
24 p3929 N84-34866
Mesoscale and severe storms (Mass) data management and analysis system 24 p3929 N84-34871
Numerical simulation of mesoscale precipitation
24 p3930 N84-34876
Microprocessors for analog signal processing
24 p3941 N84-34947
US Army Ada training curriculum. Curriculum catalog, 1984
[AD-A144168] 24 p3945 N84-34978
Ada (trademark) training curriculum. Software engineering methodologies M201 teacher's workbook
[AD-A144240] 24 p3945 N84-34982
Ada (trademark) training curriculum. Software engineering methodologies M201 teacher's guide, volume 2
[AD-A144257] 24 p3946 N84-34985
Ada (trademark) training curriculum. Software engineering methodologies M201 teacher's guide, volume 3
[AD-A144258] 24 p3946 N84-34986
Summaries of the FY 1983 applied mathematical sciences research program
[DOE/ER-0157/1] 24 p3950 N84-35010
CEMA computer cooperation, problems described: Application of British technology
24 p3960 N84-35078
CEMA computer hardware cooperation
24 p3960 N84-35079

SOFTWARE TOOLS

Computer simulator for a mobile telephone system
[NASA-CR-174533] 01 p0061 N84-10401
NSW (National Software Works) executive enhancements II
[AD-A129022] 01 p0120 N84-10781
Preliminary description of the area navigation software for a microcomputer-based Loran-C receiver
02 p0168 N84-11103
Tools for the creation of IMS database designs from Entity-Relationship diagrams
[DE84-000592] 04 p0616 N84-14066
Space Shuttle flying qualities and flight control system assessment study, phase 2
[NASA-CR-170406] 05 p0633 N84-14158
An argument for soft layering of protocols
[AD-A133948] 05 p0718 N84-14708
Software engineering — conferences
[ESA-SP-199] 05 p0721 N84-14729
A Specification Assistance System (SAS)
05 p0721 N84-14731
CONSTRUCT: A tool for programming in the large
05 p0722 N84-14733
A user's view of the Statistic Analysis Package (SAP): A new software quality assurance tool for FORTRAN programs 05 p0722 N84-14738
Qualigraph: A software tool for quality metrics and graphic documentation 05 p0723 N84-14739
Practical impact of an integrated workbench on the quality assurance of embedded software
05 p0723 N84-14741
Software configuration management
05 p0723 N84-14742
Coherent management support in the Ada environment 05 p0724 N84-14748
The PET/MAESTRO: A user's view — software design system 05 p0724 N84-14750
The project library PLUS: A general overview
05 p0724 N84-14751
Software production in a large space project: The SPOT mission center 05 p0724 N84-14752
A host-target programming support environment for the production of high-quality real-time systems
05 p0724 N84-14753
ANSI Ada and the UK M-CHAPSE
05 p0725 N84-14760
Modern software development tools in space projects on the example of a Spacelab experiment
05 p0725 N84-14761
A 2-tiered approach to specifying programs
[AD-A133949] 05 p0727 N84-14775
Automatic synthesis of abstract data type implementations from abstract specifications
08 p1211 N84-17896
MANIP and MINIP, new modeling tools for the thermal engineer 10 p1443 N84-19425
Distributed processing tools definition. Volume 1: Hardware and software technologies for tightly-coupled distributed systems
[AD-A137686] 11 p1704 N84-21105
Distributed processing tools definition. Volume 2: Application of software engineering technology
[AD-A137687] 11 p1704 N84-21106
A revised STONEMAN for distributed Ada (trademark) support environments
[AD-A137940] 11 p1707 N84-21127
RAMIS DBMS update 11 p1748 N84-21407
Specifications for a federal information processing standard data dictionary system
11 p1749 N84-21414
Sire: An automated software development environment
[AD-A138022] 12 p1879 N84-22249
Static analysis package
[REPT-71.3794] 12 p1884 N84-22283
Licensing computer software: Basic considerations as to protection and licensing of computer software and its implications for developing countries
[PB84-150689] 12 p1886 N84-22295
Environment for scientific laboratories
[DE83-013848] 12 p1919 N84-22504
A survey of three language-independent programming environments
[MC-IW-240/83] 13 p2029 N84-23160
Computer Aided Source Selection (CASS)
[AD-P002785] 13 p2055 N84-23332
Tools to aid in improving software quality: Application to a structural editor
[ENST-E-83013] 16 p2544 N84-26331
Annotation language design for Ada (ANNA)
[AD-A140452] 16 p2545 N84-26336
Validation of the MAGNA (Materially and Geometrically Nonlinear Analysis) computer program for nonlinear finite element analysis of aircraft transparency bird impact
[AD-P003229] 17 p2596 N84-26642
Status of new aerothermodynamic analysis tool for high-temperature resistant transparencies
[AD-P003236] 17 p2598 N84-26649
A static analyzer of FORTRAN programs
[INPE-3016-TDL/155] 17 p2752 N84-27465
Comparison of some software reliability models for simulated and real failure data
[NLR-MP-83032-U] 17 p2754 N84-27481
A data management and presentation tool for engineering and research
[NLR-MP-83044-U] 17 p2754 N84-27482
An Electronic Counter Measures (ECM) program generator
[LEOK-TR-1983-13] 18 p2830 N84-27970
Software support for fully Distributed/Loosely coupled processing systems, volume 1
[AD-A141500] 19 p3076 N84-29516
Software support for fully distributed/loosely coupled processing systems. Volume 2: Appendix-selected papers
[AD-A141501] 19 p3076 N84-29519
Logic machine architecture inference mechanisms: Layer 2 user reference manual release 2.0
[DE84-012115] 20 p3267 N84-30728
Improvements to software maintenance methods in real time embedded aviation flight systems
[AD-A141949] 20 p3289 N84-30742
Management overview of the benefits of efficient JOVIAL J73/1750A software tools
[AD-P003519] 21 p3329 N84-31123
The Multiple System OFP Support (MSOS) system, a Pre-PMRT capability for evaluating tactical software
[AD-P003524] 21 p3330 N84-31128
PAS/NEB: A PASCAL language tool for the MCF (Military Computer Family)
[AD-P003535] 21 p3332 N84-31139
The KAPSE (Kernel Ada (Trademark) Programming Support Environment) interface team
[AD-P003557] 21 p3335 N84-31161
A general purpose computer architecture investigation facility
[AD-P003573] 21 p3338 N84-31178
Planning of operational software implementation tool
[AD-P003595] 21 p3341 N84-31200
Software conversion history of the Flight Dynamics System (FDS)
[NASA-CR-175257] 22 p3539 N84-32404
Programmer productivity aid catalog
[PB84-212166] 22 p3642 N84-33095
SOFT-1: Imaging processing software
23 p3843 N84-34378
Ada (trademark) training curriculum. Advanced Ada Topics 1305, teacher's guide exercises, volume 1
[AD-A144498] 24 p3947 N84-34994
R-35 computer shortcomings
24 p3961 N84-35080

SOIL EROSION

Quantitative and experimental modelling of sapping networks 13 p2084 N84-23500
Planetary geomorphology field studies: Washington and Alaska 13 p2084 N84-23501
A regression model for the temporal development of soil pipes and associated gullies in the alluvial-fill valley of the Rio Puerco, central New Mexico
13 p2084 N84-23502
Experiments examining the shapes of isolated bars in comparison with those occurring in braided rivers
13 p2084 N84-23503
The erosion of streamlined islands, longitudinal grooves and scour marks: Implications to the origin of the Martian outflow channels 13 p2084 N84-23504
Riparian habitat on the Humboldt River, Deeth to Elko, Nevada
[E84-10116] 14 p2167 N84-23976
A splash and sheet erosion model from LANDSAT data 23 p3771 N84-33903

SOIL MAPPING

Actitities report on the projet DESBOD — geographical data acquisition
[REPT-5] 03 p0460 N84-13025
Computer assisted processing of soil productivity assessment data for the production of soil classification maps on the basis of soil productivity assessment data on the scale 1:5000 (DGK 5 Bo)
07 p1019 N84-16610
Group Agromet Monitoring Project (GAMP), phase 1
[ESA-CR(P)-1769] 07 p1023 N84-16637
Use of remote sensing for land use policy formulation
[E84-10117] 14 p2167 N84-23977
Preliminary evaluation of TM for soils information
20 p3216 N84-30427
Changes in TM response of soil scenes due to tillage, residue, and weathering — Landsat Thematic Mapper (TM) 23 p3766 N84-33874

SOIL MECHANICS

Fundamental properties of soils for complex dynamic loadings: Dynamic constitutive modeling of sandy soils
[AD-A131284] 02 p0206 N84-11341
Spectral behavior of four soils from the state of Sao Paulo at the orbital, field, and laboratory levels
[INPE-2878-TDL/144] 02 p0239 N84-11586
Geotechnical properties of deep sea sediments: A critical review of measurement techniques
[IOS-134] 02 p0258 N84-11689

Handbook on the determination of the physical, thermal and mechanical properties of frozen soils
[NRC/CNR-TT-2064] 03 p0395 N84-12578
Chemical stabilization of subgrade soil for the strategic expeditionary landing field
[AD-A132876] 05 p0663 N84-14356
Development of generic mobility-terrain data bases: investigation of critical soil parameters
[AD-A133595] 06 p0878 N84-15715
Mechanics of geomaterials: Rocks, concretes, soils. Preprints, William Prager Symposium
[PB84-112812] 09 p1297 N84-18482
Development of a stress-dependent finite element slab model
[AD-A135836] 09 p1332 N84-18694
Proceedings, Seminar on Probabilistic Methods in Geotechnical Engineering
[AD-A136497] 09 p1345 N84-18786
Study of seismic response at Stations 6 and 7, El Centro Strong Motion Array, Imperial Valley, California
[PB84-119924] 09 p1346 N84-18795
The evolution of spectral techniques in Navy shock design 10 p1508 N84-19871
Researching the man-machine system as a function of soil-environment system 10 p1511 N84-19894
A stochastic model for the Man-Machine-Soil-Environment System (MMSES) and the influence of vibrations 10 p1512 N84-19895
Computer applications to geotechnical engineering
[AD-A139271] 14 p2134 N84-23789
Constitutive models for static and dynamic response of geotechnical materials
[AD-A139293] 14 p2134 N84-23790
Fundamental properties of soils for complex dynamic loadings; dynamic constitutive model fundamentals
[AD-A139358] 14 p2134 N84-23791
User's manual for SAC-3: A 3-dimensional nonlinear, time dependent soil analysis code using the bounding surface plasticity model
[AD-A137782] 18 p2853 N84-28114
Hybrid modeling of soil-structure interaction in layered media
[PB84-192178] 20 p3171 N84-30137
New approach to the effective stress principle
[DE84-006963] 21 p3401 N84-31574

SOIL MOISTURE

Radar remote sensing for crop classification and canopy condition assessment: Ground-data documentation
[E84-10020] 01 p0099 N84-10643
Aircraft remote sensing of soil moisture and hydrologic parameters, Taylor Creek, Florida, and Little River, Georgia, 1979 data report
[E84-10010] 02 p0236 N84-11548
Passive microwave sensing of soil moisture content: Soil bulk density and surface roughness
[E84-10019] 02 p0237 N84-11556
Predictability of time averages: The influence of the boundary forcing
[NASA-TM-85092] 02 p0248 N84-11624
Identifying environmental features for land management decisions
[E84-10016] 03 p0392 N84-12556
Handbook on the determination of the physical, thermal and mechanical properties of frozen soils
[NRC/CNR-TT-2064] 03 p0395 N84-12578
Radar investigation of soils and sea (ERASME): C band helicopter-borne scatterometer. Application to soil moisture measurement 03 p0396 N84-12588
Models of simultaneous heat and moisture transfer in soils
[DE84-001580] 04 p0534 N84-13513
A simulation study of scene confusion factors in sensing soil moisture from orbital radar
[E84-10042] 04 p0552 N84-13635
Application of remote sensing to hydrological problems and floods
[E84-10046] 04 p0553 N84-13639
Seasonal soybean crop reflectance
[E84-10049] 04 p0553 N84-13642
Introduction: Historical perspective on the HCMM program 05 p0695 N84-14564
Study of the combined use of data from satellite thermal infrared and microwave sensors for soil moisture detection
[PB83-252734] 05 p0698 N84-14582
Remote sensing and hydrologic models
[E84-10082] 07 p1022 N84-16628
Review of hydrologic models for evaluating use of remote sensing capabilities 07 p1022 N84-16629
Strategies for using remotely sensed data in hydrologic models 07 p1022 N84-16630
Case studies using GOES infrared data and a planetary boundary layer model to infer regional scale variations in soil moisture
[NASA-CR-173250] 07 p1022 N84-16631
The effects of vegetation and soil hydraulic properties on passive microwave sensing of soil moisture: Data report for the 1982 fiels experiments
[NASA-TM-85106] 07 p1023 N84-16633
Extensions and applications of a second-order landsurface parameterization
[NASA-CR-175144] 07 p1023 N84-16636
Microwave dielectric constant dependence on soil tension
[AD-A134651] 08 p1178 N84-17673
A climatically-derived global soil moisture data set for use in the GLAS atmospheric circulation model seasonal cycle experiment
[NASA-CR-173289] 08 p1186 N84-17729
Inversion algorithms for the microwave remote sensing of soil moisture. Experiments with swept frequency microwaves
[NASA-CR-173323] 09 p1336 N84-18726
Operational soil moisture predicted model
[AD-A136381] 09 p1337 N84-18729
L band push broom microwave radiometer: Soil moisture verification and time series experiment Delmarva Peninsula
[E84-10084] 10 p1520 N84-19955
Accomplishments of the NASA Johnson Space Center portion of the soil moisture project in fiscal year 1981
[E84-10090] 10 p1521 N84-19961
AgRISTARS: Agriculture and resources inventory surveys through aerospace remote sensing
[E84-10091] 10 p1522 N84-19962
Effect of the angle of observation and of surface roughness in the spectral behavior of soils under varied moisture conditions
[INPE-2777-RPE/436] 11 p1671 N84-20904
Remote sensing of agricultural crops and soils
[E84-10107] 12 p1829 N84-21925
Scattering models in the microwave regime 12 p1831 N84-21937
CONSERVB: A numerical method to compute soil water content and temperature profiles under a bare surface
[E84-10113] 13 p2005 N84-23006
A microwave systems approach to measuring root zone soil moisture
[E84-10114] 13 p2005 N84-23007
Evaporation from a bare soil evaluated from a soil water transfer model using remotely sensed surface soil moisture data
[CRPE-NT-125] 13 p2006 N84-23016
Is there radar evidence for liquid water on Mars? 13 p2088 N84-23529
Microwave radiometer experiment of soil moisture sensing at BARC test site during summer 1981
[NASA-TM-86056] 14 p2168 N84-23989
Aggregating available soil water holding capacity data for crop yield models
[E84-10161] 17 p2710 N84-27253
Crop moisture estimation over the southern Great Plains with dual polarization 1.66 centimeter passive microwave data from Nimbus 7
[E84-10163] 17 p2710 N84-27255
Infiltration and soil moisture redistribution in HEC-1
[AD-A141626] 19 p3041 N84-29295
INFIL1D: A quasi-analytical model for simulating one-dimensional, constant flux infiltration
[DE84-008905] 20 p3187 N84-30250
Thematic Mapper spectral dimensionality and data structure 20 p3209 N84-30387
Research activities of the Geodynamics Branch
[NASA-TM-86123] 20 p3220 N84-30455
Soil moisture from temperature measurements at the Earth's surface, update 20 p3222 N84-30474

SOIL SCIENCE

An interactive soils information system. Users manual
[AD-A133480] 06 p0935 N84-16078
Computer assisted processing of soil productivity assesment data for the production of soil classification maps on the basis of soil productivity assesment data on the scale 1:5000 (DGK 5 Bo)
07 p1019 N84-16610
A system for measuring fluxes of trace gases to and from soil and vegetation with a chamber technique
[CM-61] 07 p1028 N84-16662
Condition evaluation of Supersonic Naval Ordnance Research Track (SNORT)
[AD-A140036] 15 p2265 N84-24599
Dielectric measurements of soils in the 3 to 37 GHz band between -50C and 23C 23 p3768 N84-33883

SOILS

NT ALLUVIUM
NT LUNAR SOIL
NT MUD
NT PERMAFROST
NT SANDS
NT TAR SANDS

Evaluation of WES one-dimensional dynamic soil testing procedures
[AD-A130925] 01 p0057 N84-10371
Microwave radiometric sensitivity to soil moisture under vegetation cover 01 p0098 N84-10640
Effects of acid precipitation and natural processes on cation leaching from 4 diverse forest ecosystems
[DE83-015759] 01 p0103 N84-10671
On setting up boundary conditions for soil-structure interaction problems with DYNALK (a ling from TENSOR to DYNA3D)
[DE83-016914] 02 p0206 N84-11344
An analysis of the annual temperature wave propagating through an alluvial soil
[DEL83-014883] 02 p0219 N84-11434
Use of thermal inertia determined by HCMM to predict nocturnal cold prone areas in Florida
[E84-10006] 02 p0235 N84-11548
Estimating temperature and moisture regimes in forest and rangeland soils using thermal remote sensing
[PB83-237453] 02 p0241 N84-11577
Erosion and transport of eolian materials on Mars
[NASA-CR-174569] 02 p0308 N84-12019
Lecture notes for contact-impact algorithms for large-deformation finite-element analysis
[DE83-013039] 03 p0426 N84-12789
Aerial radiological survey of Area 11, Nevada Test Site
[DE84-000440] 04 p0554 N84-13650
Mobility of organic complexes of nickel and cobalt in soils
[DE83-017897] 04 p0564 N84-13720
On the functional dependence of the freezing point of soils on the composition of water soluble salts in an interstitial solution
[NRC/CNR-TT-2070] 06 p0877 N84-15707
An interactive soils information system. Users manual
[AD-A133480] 06 p0935 N84-16078
Analytical and experimental investigation of soil reinforcing
[AD-A134343] 07 p0985 N84-16383
Revised procedure for pavement design under seasonal frost conditions
[AD-A134480] 07 p0986 N84-16384
Soil characterization and evaluation at White Sands Missile Range, New Mexico
[AD-A134820] 08 p1108 N84-17206
Remote sensing for agriculture and land use 08 p1177 N84-17666
Transport of water in frozen soil. I: Experimental determination of soil-water diffusivity under isothermal conditions
[AD-A135419] 08 p1177 N84-17671
Reactivity of TNT and TNA-microbial reduction products with soil components
[AD-A135512] 08 p1182 N84-17696
Subsidence monitoring for state of Arizona
[PB84-126960] 08 p1189 N84-17750
Data documentation for the bare soil experiment at the University of Arkansas, June - August 1980
[NASA-CR-173325] 09 p1336 N84-18725
Assessment of acid rain on leaching of elements from Delaware soils into groundwater
[PB84-120849] 09 p1343 N84-18770
The relation between isolated tree brightness temperature and grass background brightness temperature
[AD-A135843] 09 p1389 N84-19070
The Shock and Vibration Digest, volume 15, no. 11
[AD-A137065] 10 p1507 N84-19858
Dynamic behavior of underground structures 10 p1507 N84-19860
The use of remote sensing for soils investigations on BLM lands
[PB84-132075] 10 p1527 N84-20005
Piezometer probe technology for geotechnical investigations in coastal and deep-ocean environments
[AD-P002689] 11 p1659 N84-20624
Cleaning compound efficiency; test method for aircraft surface cleaners
[AD-A138515] 12 p1764 N84-21504
Using the earth to heat and cool homes
[DE84-007102] 12 p1816 N84-21840
Reflectance modeling 12 p1830 N84-21931
Bidirectional reflectance modeling of non-homogeneous plant canopies 12 p1830 N84-21932
Role of soil moisture in maintaining droughts 12 p1859 N84-22110
Incorporation of remotely sensed soil moisture data into a hydrologic runoff model 13 p2007 N84-23017
Desert pavement study at Amboy, California 13 p2062 N84-23492
Fundamental properties of soils for complex dynamic loadings; dynamic constitutive model fundamentals
[AD-A139358] 14 p2134 N84-23791

Ground-coupled heat pump demonstration
[PB84-156223] 14 p2135 N84-33797
Measurement of unsaturated flow below the root zone at an arid site
[DE84-006575] 15 p2359 N84-25158
Analysis of permafrost depths on Mars
15 p2426 N84-25569
Understanding and utilization of Thematic Mapper and other remotely sensed data for vegetation monitoring
[E84-10150] 16 p2506 N84-26096
Discriminating vegetation and soils using LANDSAT MSS and Thematic Mapper bands and band ratios
[AD-A140196] 16 p2510 N84-26108
Shot waves in frozen ground
17 p2703 N84-27218
Desert emergency of lack of water; how to find and collect water
[AD-A140961] 18 p2789 N84-27703
Centrifugal scaling laws for ground launch cruise missile shelter
[AD-A141572] 19 p2969 N84-28618
Infiltration and soil moisture redistribution in HEC-1
[AD-A141626] 19 p3041 N84-29295
Assessment of temporal dynamics of selected terrestrial carbon pools
[DE84-009850] 19 p3059 N84-29410
Targeting geothermal exploration sites in the Mount St. Helens area using solid mercury surveys
[DE84-012547] 20 p3229 N84-30519
Surplus Facilities Management Program. Post-remedial-action survey report for SNAP-8 Experimental Reactor Facility, building 010 site, Santa Susana Field Laboratories, Rockwell International, Ventura County, California
[DE84-009591] 21 p3497 N84-32165
Photovoltaic system grounding and fault protection
22 p3584 N84-32696
Dielectric measurements of soils in the 3 to 37 GHz band between -50C and 23C 23 p3768 N84-33683
Estimating net rainfall, evaporation and water storage of a bare soil from sequential L-band emissivities
23 p3769 N84-33689
Correlation of microwave sensor returns with soil moisture 23 p3770 N84-33697
Utilization of active microwave roughness measurements to improve passive microwave soil moisture estimates over bare soils 23 p3770 N84-33698

SOLAR ACTIVITY
NT FACULAE
NT SOLAR FLARES
NT SOLAR STORMS
NT STELLAR FLARES
NT SUNSPOTS
The Korean auroral records, 1507 - 1747 and the SAR (Stable Auroral Red) arcs
[NASA-CR-174472] 01 p0104 N84-10677
Prediction of solar-terrestrial disturbances: Decay phase of energetic proton events
[AD-A130103] 01 p0165 N84-11085
Solar-geophysical data number 462, February 1983. (Supplement). Explanation of data reports
[PB83-216234] 01 p0166 N84-11089
Solar-geophysical data, number 463, March 1983. Part 2: (Comprehensive reports). Data for September 1982, September 1980 and miscellanea. Explanation of data reports issued as number 462 (supplement) February 1983
[PB83-216317] 01 p0166 N84-11090
Solar-geophysical data number 464, April 1983. Part 1: Prompt report. Data for March 1983, February 1983 and late data. Explanation of data reports issued as number 462 (supplement) February 1983
[PB83-222469] 01 p0166 N84-11091
Solar-Geophysical Data number 465, May 1983. Part 1: Prompt reports. Data for April and March 1983, and late data
[PB83-228544] 02 p0305 N84-12005
Interpretation of 3He variations in the solar wind
[NASA-TM-85049] 03 p0466 N84-13065
Solar cycle variations of the solar wind
03 p0469 N84-13069
Periodicities in the occurrence of aurora as indicators of solar variability 03 p0470 N84-13093
Very Large Array observations of solar active regions. 4: Structure and evolution of radio bursts from 20 cm loops
[AD-A133807] 06 p0940 N84-16109
The circularly polarized sun at 12.6 cm wavelength
[AD-A133668] 06 p0940 N84-16110
The simplest solar microbursts flux and circular polarization at 22 GHz
[INPE-2970-PRE/436] 07 p1092 N84-17104
Three dimensional structure and time development of radio emission from solar active regions
[AD-A126640] 07 p1093 N84-17110
Solar-geophysical data number 468, August 1983. Part 1. (Prompt reports). Data for July 1983, June 1983 and late data
[PB84-116573] 09 p1417 N84-19270
Solar-goephysical data number 469, September 1983. Part 1: (Prompt reports. Data for August 1983, July 1983 and late data)
[PB84-125913] 09 p1417 N84-19273
Production of Krypton-81 and Krypton-85 by cosmic rays
[DE84-004439] 09 p1418 N84-19276
Prediction of total electron content using the International Reference Ionosphere
[AD-A137136] 10 p1536 N84-20066
Possible detection of thermal cyclotron lines from small sources within solar active regions
[AD-A136218] 10 p1597 N84-20466
Summary of solar activity observed in the Mauna Loa Solar Observatory, 1980 - 1983
[PB84-137587] 11 p1760 N84-21484
A comparative look at sunspot cycles
[NASA-TP-2325] 14 p2251 N84-24520
Very large array observations of solar active regions
[AD-A139267] 15 p2426 N84-25586
Brazil national report on radio astronomy (1981 - 1984)
[INPE-3052-PRE/473] 16 p2573 N84-26516
Photometric studies of heat flow at the photosphere
17 p2779 N84-27641
Energy flow continuity in solar active regions
17 p2779 N84-27643
Recent ground-based observations of the global properties of the Sun 17 p2779 N84-27644
Limb darkening variations 17 p2779 N84-27645
Photometric variations of solar-type stars: Results of the Cloudcroft survey 17 p2779 N84-27646
Temporal variations of solar UV spectral irradiance caused by solar rotation and active region evolution
17 p2780 N84-27650
Monthly mean determination of the solar semidiurnal surface pressure oscillation at Batavia from 1865 through 1944
[PB84-184795] 20 p3244 N84-30593
Solar-geophysical data number 473. Part 1: (Prompt reports) data for December 1983, November 1983 and late data
[PB84-180611] 20 p3320 N84-31073
Solar-geophysical data number 473. Part 2: (Comprehensive reports) data for July 1983, March 1981 and miscellanea
[PB84-180629] 20 p3320 N84-31074
The variation of range type spread F occurrence with a solar cycle at Fortaleza and Cachoeira Paulista
[INPE-3209-PRE/566] 23 p3797 N84-34080
Ground-based observations of equatorial thermosphere dynamics with a Fabry-Perot interferometer
[NASA-CR-174005] 24 p3933 N84-34897
Studies of solar magnetic fields during the solar maximum year
[NASA-TM-86469] 24 p3992 N84-35265
Cosmic Rays, no. 23. Results of researches on the international geophysics projects
24 p3993 N84-35267
Spectral characteristics of cosmic ray fluctuations
24 p3993 N84-35269
Calculations of the amplitude spectrum of the 27-day variations of galactic cosmic rays
24 p3993 N84-35271
Lunar variations of cosmic ray intensity
24 p3993 N84-35272
Two large decreases of cosmic ray intensity in August and September, 1979 24 p3994 N84-35278

SOLAR ACTIVITY EFFECTS
Observations of hydromagnetic turbulence in the solar wind 03 p0467 N84-13074
Solar wind disturbances in th outer heliosphere caused by successive solar flares from the same active region
03 p0472 N84-13104
Corotating shocks in inner heliosphere
03 p0475 N84-13124
Rapporteur paper for sessions MG1, MG3 and MG4: Modulation theory, interplanetary propagation and interplanetary acceleration
[NASA-TM-86047] 08 p1247 N84-18150
The GOES X-ray imager feasibility demonstration
[PB84-111970] 09 p1319 N84-18614
The influence of solar activity on Earth's rotation: Problems of a bivariate analysis
09 p1410 N84-19218
Solar cycle related range type spread F occurrence characteristics over equatorial and low latitude stations in Brazil
[INPE-3024-PRE/462] 12 p1846 N84-22037
Low latitude F-region studies using the OI6300 angstrom and 7744 angstrom nightglow measurements at Cachoeira Paulista, Brazil
[INPE-3025-PRE/463] 12 p1847 N84-22040
Solar-geophysical data no. 470, October 1983. Part 1: (Prompt reports), data for September 1983, August 1983 and late data
[PB84-140359] 12 p1923 N84-22526
Magnetic effect of quiet ring current
17 p2708 N84-27244
Solar Irradiance Variations on Active Region Time Scales
[NASA-CP-2310] 17 p2778 N84-27635
Solar total irradiance variability measurements by the SMM/ACRIM I experiment 17 p2778 N84-27636
Status of solar measurements and data reduction for ERB-Nimbus 7 17 p2778 N84-27637
Facular limb-darkening functions for irradiance modeling 17 p2778 N84-27638
Two-dimensional photometry of active regions
17 p2778 N84-27640
Large-scale interplanetary magnetic fields: Voyager 1 and 2 observations between 1 AU and 9.5 AU
[NASA-TM-86088] 18 p2952 N84-28712
Overview of ultraviolet remote sensing of the ionosphere
[AD-A141533] 19 p3041 N84-29294
Solar-geophysical data number 473. Part 1: (Prompt reports) data for December 1983, November 1983 and late data
[PB84-180611] 20 p3320 N84-31073
Are droughts predictable?
[INPE-3274-PRE/598] 24 p3923 N84-34826

SOLAR ARRAYS
NT SOLAR BLANKETS
Study of multi-kilowatt solar arrays for Earth orbit applications
[NASA-CR-170939] 03 p0403 N84-12634
Current collection from the space plasma through defects in high voltage solar array insulation
06 p0919 N84-15970
Finite element analysis of a deployable space structure 06 p0932 N84-16056
The STEP/STACBEAM experiment technology development for very large solar array deployers
08 p1110 N84-17220
Photovoltaic concentrator pointing dynamics and plasma interaction study 08 p1111 N84-17224
A deployable structure and solar array controls experiment for STEP 08 p1111 N84-17227
Integrated Power/Attitude Control System (IPACS) technology experiment 08 p1111 N84-17229
Dynamic analysis of a Bearing and Power Transfer Assembly (BAPTA) solar generator system
09 p1294 N84-18456
Design and development of an advanced solar array drive mechanism 09 p1294 N84-18457
Space telescope: Solar array primary development mechanism 09 p1294 N84-18458
Eight years of in orbit experience with the HELIOS solar probe thermal control subsystem
10 p1446 N84-19445
Operational modules for space station construction
[NASA-TM-85772] 12 p1779 N84-21608
Proceedings of the Flat-Plate Solar Array Project Research Forum on Photovoltaic Metallization Systems
[NASA-CR-173477] 12 p1838 N84-21980
Solar cell metallization: Historical perspective
12 p1838 N84-21981
Economic implications of current systems
12 p1838 N84-21982
Accelerated degradation of silicon metallization systems 12 p1838 N84-21983
Field test experience 12 p1838 N84-21984
Fundamentals of metal-semiconductor contacts
12 p1838 N84-21985
Getting the current out 12 p1838 N84-21986
Diffusion barriers 12 p1839 N84-21987
Observations of solar-cell metallization corrosion
12 p1839 N84-21988
Module degradation catalyzed by metal-encapsulation reactions 12 p1839 N84-21989
Metallization problems with concentrator cells
12 p1839 N84-21990
Iron-copper metallization for flexible solar/cell arrays
12 p1841 N84-22000
Chemical bonding technology for terrestrial photovoltaic modules
[NASA-CR-173480] 12 p1842 N84-22008
Study of solar array switching power management technology for space power system
[NASA-CR-167890-EXEC-SUM]
13 p2008 N84-23021

A 37.5-kW point design comparison of the nickel-cadmium battery, bipolar nickel-hydrogen battery, and regenerative hydrogen-oxygen fuel cell energy storage subsystems for low Earth orbit
[NASA-TM-83651] 13 p2008 N84-23022
Design and development of a hybrid tracker point focus fresnel passively cooled concentrator photovoltaic array
[DE84-006385] 13 p2009 N84-23031
Manufacturing cost analysis for photovoltaic concentrator tracking structures
[DE84-006318] 13 p2009 N84-23032
Discharges on a negatively biased solar array in a charged particle environment
[NASA-TM-83644] 14 p2118 N84-23690
Space plasma high-voltage drainage experiment (A0054) 15 p2274 N84-24655
Solar-array-materials passive LDEF experiment (A0171) 15 p2274 N84-24656
Dilute plasma coupling currents to a high voltage solar array in weak magnetic fields
[NASA-TM-83687] 15 p2283 N84-24708
Qualification testing of solar photovoltaic powered refrigerator freezers for medical use in remote geographic locations
[NASA-CR-168181] 15 p2361 N84-25162
Solar photovoltaic powered refrigerators/freezers for medical use in remote geographic locations
[NASA-CR-168268] 15 p2361 N84-25163
SAMICS: Engineering/economic model to predict costs 15 p2430 N84-25591
Dynamic characteristics of a space-station solar wing array
[NASA-TM-85780] 16 p2458 N84-25758
Charged particle effects on space systems
[AD-P002103] 16 p2522 N84-26189
High voltage solar array models and Shuttle tile charging
[AD-P002123] 16 p2525 N84-26209
Mathematical modeling of a continuum. Related modal analysis. Volume 1: Problem analysis
[ESA-CR(P)-1862-VOL-1] 16 p2552 N84-26376
Optimal position of solar arrays on sunsychronous satellites
[INPE-3010-RPE/454] 17 p2614 N84-26732
Characteristics of arc currents on a negatively biased solar cell array in a plasma
[NASA-TM-83726] 18 p2807 N84-27824
Investigation of test methods, material properties, and processes for solar cell encapsulants
[NASA-CR-173755] 18 p2868 N84-28209
Investigation of test methods, material properties and processes for solar cell encapsulants
[NASA-CR-173748] 18 p2870 N84-28219
LEC system development 18 p2874 N84-28248
High-speed growth of silicon crystals: Flat-plate solar array perspective 18 p2935 N84-28615
Study of concentration for space photovoltaic generator: Executive summary
[SNIAS-2726-CA/EM/G] 19 p2983 N84-28903
NASA-OAST photovoltaic energy conversion program 19 p3044 N84-29308
On-orbit performance of LIPS gallium arsenide solar cell experiment 19 p3045 N84-29319
Preliminary concept of a 100-kilowatt miniaturized Cassegrainian concentrator solar array 19 p3047 N84-29332
Performance measurement of low concentration ratio solar array for space application 19 p3047 N84-29333
Preflight study of San Marco D/L GaAs solar cell panels 19 p3047 N84-29334
Preliminary space station solar array structural design study 19 p3047 N84-29335
Development and support structures for high-power solar arrays 19 p3048 N84-29336
Transparent arrays: Progress toward higher efficiency 19 p3048 N84-29338
High speed, low cost, LEO-thermal-cycling facility 19 p3048 N84-29340
Solar array: Plasma interactions 19 p3048 N84-29343
A high voltage electrical power system for low Earth orbit applications
[NASA-TM-86453] 21 p3390 N84-31511
The NASA photovoltaic technology program
[NASA-TM-83685] 22 p3542 N84-32426
Proceedings of the Flat-Plate Solar Array Project Research Forum on the Design of Flat-Plate Photovoltaic Arrays for Central Stations
[NASA-CR-173918] 22 p3582 N84-32683
Source-circuit design overview 22 p3582 N84-32684
Hot-spot heating in central-station arrays 22 p3582 N84-32686
Hot-spot investigations of utility scale panel configurations 22 p3582 N84-32687
Design and selection of bypass diodes 22 p3582 N84-32688
Electrical insulation design requirements and reliability goals 22 p3583 N84-32691
Electrical safety for high voltage arrays 22 p3584 N84-32697
Photovoltaic central station step and touch potential considerations in grounding system design 22 p3584 N84-32699
Interface standardization 22 p3584 N84-32700
Evolution of integrated panel structural design and interfaces for PV power plants 22 p3584 N84-32701
Is structural interface standardization beneficial? 22 p3585 N84-32702
Qualification tests and electrical measurements: Practice and problems 22 p3585 N84-32703
Qualification and testing of modules 22 p3585 N84-32704
Qualification testing and electrical measurement experience: A manufacturer's view 22 p3585 N84-32705
Stand-alone flat-plate photovoltaic power systems: System sizing and life-cycle costing methodology for Federal agencies
[NASA-CR-173903] 22 p3618 N84-32922
Concentrating photovoltaic technology
[DE84-012275] 22 p3619 N84-32931
Particle environment — solar arrays and electric discharges
[NASA-CR-173888] 22 p3661 N84-33210
Solar energy concentrator system
[AD-D011149] 23 p3785 N84-34004
Process research of non-CZ silicon material
[NASA-CR-173954] 23 p3787 N84-34017
Silicon solar cell process development, fabrication and analysis
[NASA-CR-173950] 23 p3787 N84-34020
Progress research of non-Cz silicon material
[NASA-CR-173949] 23 p3787 N84-34021
Investigation of test methods, material properties and processes for solar cell encapsulants
[NASA-CR-173940] 23 p3789 N84-34029
Development of metallization process. FSA project, cell and module formation research area
[NASA-CR-173959] 23 p3789 N84-34030
Low cost solar array project. Experimental process system development unit for producing semiconductor-grade silicon using the silane-to-silicon process
[NASA-CR-173936] 23 p3789 N84-34034
San Marco D/L solar array system design and performance
[NASA-TM-86125] 24 p3916 N84-34795

SOLAR ATMOSPHERE
The modelling of the solar upper photosphere and lower chromosphere based upon ATM data
[NASA-CR-170920] 02 p0308 N84-12021
The Owens Valley frequency-agile interferometer
[AD-A131825] 03 p0377 N84-12453
The calculation of theoretical chromospheric models and the interpretation of solar spectra from rockets and spacecraft
[NASA-CR-175351] 07 p1092 N84-17105
The ISPM solar-wind ion composition spectrometer 09 p1261 N84-18232
Oscillation phenomena in the solar atmosphere and modulation by microwave radiation
[INPE-2743-TDL/134] 10 p1596 N84-20463
Summary of solar activity observed in the Mauna Loa Solar Observatory, 1980 - 1983
[PB84-137587] 11 p1760 N84-21484
Simultaneous retrieval of atmospheric temperatures and ray paths from occultation spectra
[NASA-CR-173649] 17 p2726 N84-27354
Energy flow continuity in solar active regions 17 p2779 N84-27643
Solar Terrestrial Physics: Present and Future
[NASA-RP-1120] 23 p3836 N84-34332
MHD waves and turbulence in the Sun and interplanetary medium 23 p3837 N84-34336

SOLAR AZIMUTH
U AZIMUTH
U SOLAR POSITION

SOLAR BLANKETS
Space Photovoltaic Research and Technology 1983. High Efficiency, Radiation Damage, and Blanket Technology
[NASA-CP-2314] 19 p3043 N84-29307
Transparent arrays: Progress toward higher efficiency 19 p3048 N84-29338
Multi-100kW: Planar low cost solar array development
[NASA-CR-171119] 20 p3234 N84-30529

SOLAR CELLS
NT HOMOJUNCTIONS
High efficiency, low cost thin GaAs solar cells
[NASA-CR-168265] 01 p0102 N84-10662
Mass spectrometric analysis of silicon for solar cells
[BMFT-FB-T-83-134] 02 p0192 N84-11244
Tenth Photovoltaic Concentrator Project Integration Meeting
[DE83-012338] 02 p0242 N84-11587
Amorphous silicon solar cells
[BMFT-FB-T-83-112] 02 p0243 N84-11590
Photovoltaics advanced research and development bibliography
[DE83-009399] 02 p0302 N84-11983
Transactions of the Chinese Solar Energy Society (selected articles)
[AD-A131870] 03 p0403 N84-12637
Design analysis of advanced photovoltaic technologies
[DE84-000008] 04 p0557 N84-13675
Collapsible photovoltaic-concentrator array portable power from the Sun
[DE84-000713] 04 p0558 N84-13677
Cell-substrate bonding system design and development
[DE84-000963] 04 p0558 N84-13678
Design and development of a high-concentration and high-efficiency photovoltaic concentrator using a curved Fresnel lens
[DE84-000987] 04 p0558 N84-13679
Effects of compensation on light-induced metastable defects in aSi:H
[DE83-016896] 04 p0558 N84-13680
Photovoltaic-cell-research priorities
[DE84-000066] 04 p0559 N84-13683
Update of pulsed-laser processing technology for high-efficiency silicon solar cells
[DE84-000638] 04 p0559 N84-13684
Photovoltaic concentrators: Recent developments
[DE84-001641] 04 p0559 N84-13687
A simple model of space radiation damage in GaAs solar cells
[NASA-TP-2242] 04 p0603 N84-13978
Thin-layer solar cells made of amorphous silicon
[MBB-UA-864-82-OE] 05 p0698 N84-14584
Proceedings of the US Department of Energy Photovoltaics Program Annual Review
[DE83-010325] 05 p0699 N84-14589
Electronic properties of amorphous silicon (a-Si:H)
[BMFT-FB-T-83-154] 05 p0699 N84-14590
Design and fabrication of a prototype system for photovoltaic residences in the southwest
[DE82-016271] 05 p0700 N84-14592
Thin N-I-P radiation resistant solar cells
[NASA-CR-168284] 06 p0873 N84-15682
Beam processing for high-efficiency Si solar cells
[DE84-002059] 06 p0874 N84-15690
Progress in polycrystalline thin-film solar cells
[DE83-012131] 06 p0875 N84-15691
Current collection from the space plasma through defects in high voltage solar array insulation 06 p0919 N84-15970
Solar-cell airplane Solair 1
[NASA-TM-77061] 07 p0950 N84-16164
SUN WORSHIPER: McCready's Solar Challenger flies over the English Channel
[NASA-TM-77327] 07 p0950 N84-16166
Solar cells of metal-free phthalocyanine dispersed in polyvinyl carbazole. 1: Effects of the recrystallization of H2PC on cell characteristics
[NASA-TM-77043] 07 p1025 N84-16639
An investigation of the texture surface silicon solar cell
[AD-A134250] 07 p1026 N84-16646
Design and development of low cost photovoltaic concentrator modules
[DE84-003150] 07 p1026 N84-16649
Solid State Photovoltaics Research Branch
[DE84-000022] 07 p1083 N84-17043
Advanced photovoltaic system simulator to demonstrate the performance of advanced photovoltaic cells and devices
[DE83-009405] 08 p1180 N84-17688
Linear Fresnel lens photovoltaic concentrator program
[DE84-002971] 08 p1180 N84-17689
Study of thermal fatigue of soldered photovoltaic cells by thermal resistance measurement
[DE84-003764] 08 p1181 N84-17692
Development of technologies for very thin solar cells
[BMFT-FB-W-83-024] 08 p1181 N84-17694
Development or a solar cell coverglass adhesive for space application
[BMFT-FB-W-83-029] 08 p1181 N84-17695
Measurement of alpha/epsilon ratio by using a Sun pointing satellite Tansei 4 10 p1446 N84-19447
Low cost, sprayed CuInSe2 solar cell research
[DE84-005339] 10 p1530 N84-20023
Development and prototype production of photovoltaic energy supply systems
[BMFT-FB-T-83-238] 10 p1531 N84-20025

A study of heterojunction solar cells based on n-CdS and several P-type semiconductors
11 p1672 N84-20914
Voltage controlling mechanisms in low resistivity silicon solar cells: A unified approach
[NASA-TM-83612] 11 p1673 N84-20916
Increased voltage photovoltaic cell
[NASA-CASE-NPO-16155-1] 11 p1673 N84-20917
High resolution study of the relationship between misfit accommodation and growth of Cu sub 2-x in CdS
[DE84-004636] 11 p1673 N84-20920
Meteorological/atmospheric effects on the performance of solar photovoltaic energy conversion devices
[DE84-000018] 11 p1674 N84-20927
Design and development of a stand-alone concentrator photovoltaic array
[DE84-005860] 11 p1675 N84-20930
Discussion of cosmonaut EVA for solar battery installation 12 p1774 N84-21571
Details of cosmonauts' installation of solar batteries
12 p1774 N84-21572
Operational modules for space station construction
[NASA-TM-85772] 12 p1779 N84-21608
Results of the 1983 NASA/JPL balloon flight solar cell calibration program
[NASA-CR-173465] 12 p1779 N84-21609
Accelerated degradation of silicon metallization systems 12 p1838 N84-21983
Fundamentals of metal-semiconductor contacts
12 p1838 N84-21985
Getting the current out 12 p1838 N84-21986
Observations of solar-cell metallization corrosion
12 p1839 N84-21988
Module degradation catalyzed by metal-encapsulation reactions 12 p1839 N84-21989
Metallization problems with concentrator cells
12 p1839 N84-21990
Laser assisted deposition 12 p1840 N84-21998
Iron-copper metallization for flexible solar/cell arrays
12 p1841 N84-22000
Optimization of transparent electrode for solar cell and chemical vapor deposition of amorphous silicon
[DE83-017760] 12 p1843 N84-22014
Materials and cells for high-efficiency solar-to-electric conversion
[DE83-011961] 12 p1843 N84-22015
Field experience with voltage breakdown in photovoltaic (PV) arrays
[DE84-005551] 12 p1844 N84-22020
Technical applications of solar energy. Project photovoltaic systems and project selective coatings
[BMFT-FB-T-83-299] 12 p1844 N84-22025
Radiation damage and defect behavior in ion-implanted, lithium counterdoped silicon solar cells
[NASA-TM-83646] 13 p1985 N84-22890
The effect of diffusion induced lattice stress on the open-circuit voltage in silicon solar cells
[NASA-TM-83667] 13 p2008 N84-23027
Design and development of a hybrid tracker point focus fresnel passively cooled concentrator photovoltaic array
[DE84-006365] 13 p2009 N84-23031
Manufacturing cost analysis for photovoltaic concentrator tracking structures
[DE84-006318] 13 p2009 N84-23032
Low-cost GaAs solar cell development
[AD-A139938] 13 p2047 N84-23280
Discharges on a negatively biased solar array in a charged particle environment
[NASA-TM-83644] 14 p2118 N84-23690
Solar cell characterization by photocapacitance
[DE84-006215] 14 p2143 N84-23849
Development of high-efficiency concentrator cell configuration
[DE84-006356] 14 p2173 N84-24012
Solar-array-materials passive LDEF experiment (A0171) 15 p2274 N84-24656
Advanced photovoltaic experiment (S0014)
15 p2274 N84-24657
Investigation of critical surface degradation effects on coatings and solar cells developed in Germany (S1002)
15 p2275 N84-24658
Costed flexible laminate and method of its production
[NASA-CASE-GSC-12913-1] 15 p2301 N84-24807
Technical use of solar energy. Part 1. Thin films solar cells
[BMFT-FB-T-83-296-PT-1] 15 p2362 N84-25172
Research and development on the encapsulation of solar cells with improved potting and cover materials
[BMFT-FB-T-83-309] 15 p2363 N84-25175
Development of mechanically-stacked multijunction solar cell for concentrator applications
[DE84-006355] 15 p2363 N84-25177
Structural sizing of a solar powered aircraft
[NASA-CR-172313] 16 p2448 N84-25702
Preparation of thin amorphous silicon films for thin film solar cells
[BMFT-FB-T-84-018] 16 p2518 N84-26166
Feasibility of using Photovoltaic Power Systems (PPS) with High Pressure Sodium (HPS) lamps for magazine entry lighting
[AD-A140146] 16 p2519 N84-26169
Comparative measurement of capacitance in solar cells for space and terrestrial applications
17 p2662 N84-26984
Characteristics of arc currents on a negatively biased solar cell array in a plasma
[NASA-TM-83728] 18 p2807 N84-27824
Investigation of test methods, material properties, and processes for solar cell encapsulants
[NASA-CR-173755] 18 p2868 N84-28209
A review of the silicon material task
[NASA-CR-173743] 18 p2868 N84-28210
Process Research On Polycrystalline Silicon Material (PROPSM) — flat plate solar array project
[NASA-CR-173754] 18 p2869 N84-28213
Process Research On Polycrystalline Silicon Material (PROPSM)
[NASA-CR-173753] 18 p2869 N84-28214
Investigation of test methods, material properties and processes for solar cell encapsulants
[NASA-CR-173748] 18 p2870 N84-28219
Investigation of accelerated stress factors and failure/degradation mechanisms in terrestrial solar cells
[NASA-CR-173757] 18 p2870 N84-28222
Proceedings of the Flat-Plate Solar Array Project Research Forum on the High-Speed Growth and Characterization of Crystals for Solar Cells
[NASA-CR-173746] 18 p2935 N84-28614
Polycrystalline silicon sheets for solar cells by the improved spinning method 18 p2937 N84-28626
High speed crystal growth by Q-switched laser melting
18 p2938 N84-28637
Structural characterization of solar silicon
18 p2939 N84-28640
A high-speed characterization technique for solar silicon 18 p2939 N84-28641
Defects in high speed growth of EFG silicon ribbon
18 p2939 N84-28642
Solid state photovoltaic research
[DE84-004494] 18 p2942 N84-28656
Physico-chemical studies on copper sulfide. The CdS-Cu2S solar cell
[BMFT-FB-T-84-065] 19 p2990 N84-28947
NASA-OAST photovoltaic energy conversion program
19 p3044 N84-29306
Structurally stable, thin silicon solar cells
19 p3044 N84-29309
Recent advances in LPE GaAs-based solar cells
19 p3044 N84-29310
Process in manufacturing high efficiency AlGaAs/GaAs solar cells by MO-CVD 19 p3044 N84-29311
Optimal design of GaAs-based concentrator space solar cells for 100 AMO, 80 deg C operation
19 p3044 N84-29312
Two-dimensional computer simulation of EMVJ and grating solar cells under AMO illumination
19 p3044 N84-29313
Radiation testing of GaAs on CRRES and LIPS experiment 19 p3044 N84-29314
Solar cell degradation in proton radiation orbits
19 p3045 N84-29315
Model of solar cell proton damage
19 p3045 N84-29316
Piecewise simulaton proton test of gallium arsenide and thin silicon solar cells 19 p3045 N84-29317
Radiation tolerance of low resistivity, high voltage silicon solar cells 19 p3045 N84-29318
Defect studies in one MeV electron irradiated GaAs and in Al/sub x Ga/sub 1-x As P-N junction solar cells
19 p3045 N84-29321
Cell and defect behavior in lithium-counterdoped solar cells 19 p3046 N84-29322
Equivalent electron fluence for solar proton damage in GaAs shallow junction cells 19 p3046 N84-29324
Research directions and progress in SERI advanced high efficiency concepts program 19 p3046 N84-29325
Optimal design of high-efficiency single-junction and tandem concentrator space cells at 80 deg C and 100 SUNS 19 p3046 N84-29326
Development of GaAs/Si and GaAs/Si monolithic structures for future space solar cells
19 p3046 N84-29327
Development of a 30 percent efficient 3-junction monolithic cascade solar cell 19 p3047 N84-29328
High-efficiency solar cells fabricated by vacuum MO-CVD 19 p3047 N84-29329
Preliminary concept of a 100-kilowatt miniaturized Cassegrainian concentrator solar array
19 p3047 N84-29332
Performance measurement of low concentration ratio solar array for space application
19 p3047 N84-29333
Preflight study of San Marco D/L GaAs solar cell panels 19 p3047 N84-29334
Panel fabrication utilizing GaAs solar cells
19 p3048 N84-29337
The NASA welding assessment program
19 p3048 N84-29339
High speed, low cost, LEO-thermal-cycling facility
19 p3048 N84-29340
Improved techniques of parallel gap welding and monitoring 19 p3048 N84-29341
High-efficiency Conventional Cells Workshop
19 p3049 N84-29345
Radiation Damage Workshop
19 p3049 N84-29346
Development of an all-metal thick film cost effective metallization system for solar cells
[NASA-CR-173760] 19 p3049 N84-29350
Surface and allied studies in silicon solar cells
[NASA-CR-173761] 19 p3049 N84-29351
Process research of non-CZ silicon material
[NASA-CR-173759] 19 p3050 N84-29353
Laser-assisted solar cell metallization processing
[NASA-CR-173764] 19 p3050 N84-29354
Laser-assisted solar cell metallization processing
[NASA-CR-173763] 19 p3050 N84-29355
Low cost, sprayed CuInSe2 solar cell research
[DE84-010480] 20 p3235 N84-30533
Spray pyrolysis of cadmium sulfide/copper indium selenide cells
[DE84-004491] 20 p3235 N84-30537
Silicon crystal growing by oscillating crucible technique
[DE84-011038] 20 p3309 N84-31019
Chemical vapor deposition of amorphous semiconductor films
[DE84-004489] 20 p3311 N84-31026
Electron charging and SGEMP (System Generated Electromagnetic Pulse) studies on satellite dielectrics
[AD-A143012] 21 p3353 N84-31268
The potential impact of new power system technology on the design of a manned space station
[NASA-TM-83770] 21 p3354 N84-31272
The effects of lithium counterdoping on radiation damage and annealing in n(+)p silicon solar cells
[NASA-TM-83755] 21 p3390 N84-31513
Quantum well multijunction photovoltaic cell
[DE84-011113] 21 p3393 N84-31529
Improved photovoltaic cells and electrodes
[DE84-011105] 21 p3393 N84-31530
Laser-assisted solar cell metallization processing
[NASA-CR-173875] 21 p3409 N84-31619
Neutron damage effects in AlGaAs/GaAs solar cells
[DE84-009448] 21 p3435 N84-31791
Silicon solar cells: Development and qualification of thin (50 to 100 micron) and large area (5 cm x 5 cm) high efficiency cells
[BMFT-FB-W-84-016] 21 p3436 N84-31798
Electrical insulation design requirements and reliability goals 22 p3583 N84-32691
Hipot and continuity qualification est experience
22 p3583 N84-32692
Breakdown of organic insulators
22 p3583 N84-32694
Qualification and testing of modules
22 p3585 N84-32704
Schottky barrier and homojunction gallium arsenide solar cells 22 p3615 N84-32907
A new solar cell design for improved open circuit voltage and high efficiency
[NASA-CASE-NPO-16126-1] 22 p3616 N84-32911
Influence of the interfacial layer on electrooptical properties of heterojunction solar cells
[DE84-013285] 22 p3618 N84-32925
CdS/CuInSe2 heterojunction cell research
[DE84-004508] 22 p3618 N84-32926
Concentrating photovoltaic technology
[DE84-012275] 22 p3619 N84-32931
High-efficiency multi-colored photovoltaic cells
[PB84-200575] 22 p3619 N84-32932
Polycrystalline silicon study: Low-cost silicon refining technology prospects and semiconductor-grade polycrystalline silicon availability through 1986
[NASA-CR-173897] 22 p3662 N84-33213
Photovoltaic module encapsulation design and materials section, volume 2
[NASA-CR-173902] 23 p3786 N84-34013
Development of a polysilicon process based on chemical vapor deposition, phase 1 and phase 2
[NASA-CR-173957] 23 p3786 N84-34015
Process research of non-CZ silicon material
[NASA-CR-173954] 23 p3787 N84-34017
Silicon solar cell process development, fabrication and analysis
[NASA-CR-173950] 23 p3787 N84-34020

Progress research of non-Cz silicon material
[NASA-CR-173949] 23 p3787 N84-34021
Development of metallization process: FSA project, cell and module formation research area
[NASA-CR-173951] 23 p3788 N84-34022
Development and fabrication of a solar cell junction processing system
[NASA-CR-174948] 23 p3788 N84-34024
Comprehensive silicon solar cell computer modeling
[NASA-CR-173953] 23 p3788 N84-34025
Process Research of Polycrystalline Silicon Material (PROPSM)
[NASA-CR-173934] 23 p3788 N84-34026
Excimer laser annealing to fabricate low cost solar cells
[NASA-CR-173938] 23 p3788 N84-34027
Design, analysis and test verification of advanced encapsulation systems
[NASA-CR-173941] 23 p3789 N84-34028
Investigation of test methods, material properties and processes for solar cell encapsulants
[NASA-CR-173940] 23 p3789 N84-34029
Process Research of Polycrystalline Silicon Material (PROPSM)
[NASA-CR-173935] 23 p3789 N84-34033
Low cost solar array project. Experimental process system development unit for producing semiconductor-grade silicon using the silane-to-silicon process
[NASA-CR-173936] 23 p3789 N84-34034
Process for forming pure silver ohmic contacts to N- and P-type gallium arsenide materials
[DE84-014515] 23 p3831 N84-34298
MOD silver metallization for photovoltaics
[NASA-CR-173975] 24 p3884 N84-34610
Radiation effects in silicon and gallium arsenide solar cells using isotropic and normally incident radiation
[NASA-CR-174007] 24 p3916 N84-34793
San Marco D/L solar array system design and performance
[NASA-TM-86125] 24 p3916 N84-34795
Electronic properties of grain boundaries in GaAs: A study of oriented bicrystals prepared by epitaxial lateral overgrowth
[AD-A144358] 24 p3967 N84-35118

SOLAR COLLECTORS
NT SOLAR REFLECTORS
An investigation of thermal characteristics of plate-in-tube solar receivers 01 p0101 N84-10658
Development of a solar-driven free-piston heat pump
[DE83-015024] 02 p0220 N84-11440
Matrix approach for testing mirrors, part 1
[DE83-009998] 02 p0242 N84-11585
Tenth Photovoltaic Concentrator Project Integration Meeting
[DE83-012338] 02 p0242 N84-11587
Study of multi-kilowatt solar arrays for Earth orbit applications
[NASA-CR-170939] 03 p0403 N84-12634
Tailoring polymer films for solar-collection use, phase 1
[DE83-018117] 03 p0404 N84-12640
Fundamentals and techniques of nonimaging optics, volume 2
[DE83-015447] 03 p0442 N84-12902
Vapor-phase heat-transport system
[DE84-001341] 04 p0535 N84-13516
Structural analysis of a glass/space frame parabolic-trough solar collector for various operating positions
[DE84-001137] 04 p0550 N84-13622
Collapsible photovoltaic-concentrator array portable power from the Sun
[DE84-000713] 04 p0558 N84-13677
Flat-plate solar-collector performance data base and user's manual
[DE83-011993] 04 p0558 N84-13682
An anisotropic model of diffuse solar radiation with application to an optimization of compound parabolic collectors 05 p0765 N84-15017
Stirling engines with controlled evaporation of a two-phase two-component working fluid
[DE83-017284] 06 p0853 N84-15560
Development of a consensus standard for determining thermal performance of high-concentration-ratio solar collectors
[DE83-005129] 06 p0872 N84-15676
Direct steam generation in line-focus solar collectors
[DE83-006030] 06 p0872 N84-15678
Line-focusing adjustable parabolic splar-concentrating collector
[DE84-001590] 06 p0874 N84-15687
Determination of freeze protection heat loss from a parabolic trough solar system
[DE84-000005] 06 p0874 N84-15689
Solar thermal technology evaluation, fiscal year 1982. Volume 1: Executive summary
[NASA-CR-173190] 07 p1025 N84-16640
Solar thermal technology evaluation, fiscal year 1982. Volume 2: Technical
[NASA-CR-173191] 07 p1025 N84-16641
Photovoltaic concentrator pointing dynamics and plasma interaction study 08 p1111 N84-17224
Support development program for the qualification of solar farm collectors
[BMFT-FB-T-83-207] 08 p1181 N84-17696
Flat plate heat pipe collectors made by roll bonding
[BMFT-FB-T-83-202] 10 p1495 N84-19778
Developing of practical methods for the determination of the stagnation temperature and the durability of solar collectors
[BMFT-FB-T-83-227] 10 p1530 N84-20024
Solar pond performance estimation, engineering design, and construction experience
[DE84-003992] 11 p1674 N84-20924
Active solar heating and cooling program. Polymer stabilization film-forming, high-temperature polymers
[DE84-000093] 11 p1675 N84-20929
Design and development of a stand-alone concentrator photovoltaic array
[DE84-005860] 11 p1675 N84-20930
Proceedings of the Flat-Plate Solar Array Project Research Forum on Photovoltaic Metallization Systems
[NASA-CR-173477] 12 p1838 N84-21980
Solar cell metallization: Historical perspective 12 p1838 N84-21981
Economic implications of current systems 12 p1838 N84-21982
Field test experience 12 p1838 N84-21984
Getting the current out 12 p1838 N84-21986
Observations of solar-cell metallization corrosion 12 p1839 N84-21988
Metallization problems with concentrator cells 12 p1839 N84-21990
JPL tests of a LaJet concentrator facet
[NASA-CR-173470] 12 p1841 N84-22004
Chemical bonding technology for terrestrial photovoltaic modules
[NASA-CR-173460] 12 p1842 N84-22006
Solar tests of aperture plate materials for solar thermal dish collectors
[NASA-CR-173462] 12 p1842 N84-22010
Low-temperature IPH parabolic troughs: Design variations and cost-reduction potential
[DE84-000024] 12 p1843 N84-22016
Design optimization studies for nonimaging concentrating solar collector tubes
[DE84-001368] 12 p1843 N84-22017
Design and development of a hybrid tracker point focus fresnel passively cooled concentrator photovoltaic array
[DE84-006365] 13 p2009 N84-23031
Manufacturing cost analysis for photovoltaic concentrator tracking structures
[DE84-006318] 13 p2009 N84-23032
Experimental mixed convection heat transfer from a large, vertical surface in a horizontal flow
[HMT-36] 14 p2146 N84-23864
Development of high-efficiency concentrator cell configuration
[DE84-006356] 14 p2173 N84-24012
Protective telescoping shield for solar concentrator
[NASA-CASE-NPO-16236-1] 15 p2361 N84-25164
Operational demonstration of a field of high performance flat plate collectors with isothermal heat transport
[BMFT-FB-T-83-2] 15 p2362 N84-25171
Technical use of solar energy: Conversion from solar to thermal energy, solar cooling and thermal energy storage
[BMFT-FB-T-83-300] 15 p2362 N84-25173
Thermal energy storage in molten-salt systems for solar central receivers: The federal role in research and development
[DE84-007433] 15 p2364 N84-25185
Development of new absorber coatings for high temperature applications
[BMFT-FB-T-84-033] 16 p2471 N84-25837
A theoretical analysis of natural convection towers for solar energy conversion
[DE83-011956] 16 p2512 N84-26118
Vapor-phase heat-transport system 16 p2518 N84-26161
Improvement of flat plate collectors for solar energy conversion
[BMFT-FB-T-84-042] 16 p2519 N84-26167
A photovoltaic concentrator for 500 Wpk using a C50-Si generator and a glass-laminated metal membrane reflector
[BMFT-FB-T-84-050] 16 p2519 N84-26166
Effect of operating temperature on the HWB model for solar-collector design
[DE84-900248] 16 p2519 N84-26172
Materials research activities at the National Bureau of Standards (1975-1982) pertaining to active solar heating and cooling systems
[PB84-154780] 17 p2723 N84-27332
Solar collector test procedures: Development of a method to refer measured efficiencies to standardized test conditions
[PB84-165299] 17 p2723 N84-27333
Solar concentrator protective system
[NASA-CASE-NPO-15662-1] 18 p2867 N84-28204
A review of the silicon material task
[NASA-CR-173743] 18 p2868 N84-28210
CONC/11: A computer program for calculating the performance of dish-type solar thermal collectors and power systems
[NASA-CR-173735] 18 p2869 N84-28212
Investigation of test methods, material properties and processes for solar cell encapsulants
[NASA-CR-173748] 18 p2870 N84-28219
Second-law efficiency of solar-thermal cavity receivers
[NASA-CR-173732] 18 p2871 N84-28223
A transmittance-optimized, point-focus Fresnel lens solar concentrator 18 p2871 N84-28228
Advanced solar receivers 18 p2872 N84-28232
Solar tests of aperture plate materials for solar thermal dish collectors 18 p2872 N84-28233
Recent developments: PKI square dish for the Solersa Project 18 p2873 N84-28237
Continuing research at Solar Steam, Incorporated 18 p2873 N84-28238
Stirling module development overview 18 p2873 N84-28240
Parabolic dish Stirling module 18 p2873 N84-28241
Testing of the United Stirling 4-95 solar Stirling engine on test bed concentrator 18 p2873 N84-28243
Vanguard concentration 18 p2873 N84-28244
Near-term Brayton module status 18 p2874 N84-28246
LEC system development 18 p2874 N84-28248
White Cliffs: Operating experience 18 p2874 N84-28250
Deployment of a secondary concentrator to increase the intercept factor of a dish with large slope errors 18 p2875 N84-28252
Recent advances in design of low cost film concentrator and low pressure free piston Stirling engines for solar power 18 p2875 N84-28253
Environmental, health and safety assessment of photovoltaics
[NASA-CR-173739] 18 p2877 N84-28267
Atmospheric transmittance model for a solar beam propagating between a heliostat and a receiver
[DE84-007980] 18 p2953 N84-28716
Selective coating heat pipe collector adaptation to solar energy plants
[BMFT-FB-T-84-054] 19 p3025 N84-29187
Environmental degradation of solar optical materials, volume 2
[DE84-006505] 19 p3051 N84-29362
Requirements for high-temperature air-cooled central receivers
[DE84-000081] 20 p3235 N84-30534
Performance tests of the Solar Steam, Incorporated, 9-m deep-dish solar concentrating collector
[DE84-000079] 20 p3235 N84-30535
Batteries and accumulators for future Aerospatiale projects
[SNIAS-841-422-111] 21 p3355 N84-31282
Two years experience testing solar collectors in Brazil
[INPE-3221-RPE/461] 21 p3434 N84-31785
Stable density stratification solar pond
[NASA-CASE-NPO-15419-2] 22 p3616 N84-32910
Wind loading on solar concentrators: Some general considerations
[NASA-CR-173896] 22 p3616 N84-32915
A nomographic methodology for use in performance trade-off studies of parabolic dish solar power modules
[NASA-CR-173908] 22 p3617 N84-32918
Survey of manufacturers of high-performance heat engines adaptable to solar applications
[NASA-CR-173911] 22 p3617 N84-32919
Module utilization committee
[NASA-CR-173898] 22 p3617 N84-32920
Flate-plate photovoltaic power systems handbook for Federal agencies
[NASA-CR-173901] 22 p3617 N84-32921
Thermal modeling of line focus photovoltaic systems
[DE84-013920] 22 p3618 N84-32927
Solar energy concentrator system
[AD-D011149] 23 p3785 N84-34004

SOLAR COMPASSES
The initial orientation of homing pigeons on the magnetic equator, with and without Sun compass
[INPE-3104-PRE/503] 16 p2534 N84-26271

SOLAR CONSTANT
Space research in Switzerland
08 p1107 N84-17200
Climate sensitivity with a seasonal cycle energy balance model
12 p1856 N84-22091
The solar constant, climate, and some tests of the storage hypothesis
17 p2780 N84-27649
SOLAR CONVERTERS
U SOLAR GENERATORS
SOLAR COOLING
Reliability and maintainability study of select solar-energy-system components in the National Solar Data Network
[DE83-011974] 03 p0404 N84-12647
Technical use of solar energy: Conversion from solar to thermal energy, solar cooling and thermal energy storage
[BMFT-FB-T-83-300] 15 p2362 N84-25173
An assessment of dehumidifier geometries for desiccant cooling systems
[DE83-011991] 16 p2512 N84-26123
International energy agency solar heating and cooling programme: Task 8, passive and hybrid solar low energy buildings
16 p2515 N84-26140
A laboratory approach to technology transfer: The passive solar cooling system concept example
16 p2516 N84-26152
Phase change materials for use in passive and hybrid solar heating and cooling systems
16 p2518 N84-26164
Materials research activities at the National Bureau of Standards (1975-1982) pertaining to active solar heating and cooling systems
[PB84-154780] 17 p2723 N84-27332
Simplified method for estimating the cooling loads of passive solar systems
[DE84-009474] 20 p3235 N84-30536
Selected bibliography of solar thermal literature. Volume 1: Bibliography
[DE84-011386] 20 p3315 N84-31052
SOLAR CORONA
NT CORONAL HOLES
NT CORONAL LOOPS
Solar Wind Five
[NASA-CP-2280] 03 p0466 N84-13067
Coronal heating by waves
03 p0466 N84-13068
Direct coronal heating from dissipation of magnetic field
03 p0466 N84-13069
Spectroscopic measurements of solar wind generation
03 p0466 N84-13071
Coronal transients in FE XIV 5303A: First two-dimensional photoelectric ground-based observations
03 p0466 N84-13072
Magnetohydrodynamic modeling of coronal structure and expansion
03 p0468 N84-13081
Mixed solar wind originating from coronal regions of different temperatures
03 p0473 N84-13114
Interpreting the solar wind ionization state
03 p0473 N84-13115
Modeling of transient disturbances in coronal-streamer configurations
03 p0474 N84-13119
Velocity profiles of interplanetary shocks
03 p0474 N84-13122
The behavior of the cosmic ray equatorial anisotropy inside fast solar wind streams ejected by coronal holes
[IFSI-82-16] 03 p0475 N84-13130
The MHD stability of inertia-tied Z-pinches with application to solar coronal loops
04 p0596 N84-13932
Rapid magnetic energy release, its possible role in coronal heating and solar wind acceleration
[AD-A133170] 07 p1093 N84-17106
The ISPM mission: Science objectives and mission overview
09 p1260 N84-18229
The ISPM solar-wind ion composition spectrometer
09 p1261 N84-18232
The IPSM coronal-sounding experiment
09 p1262 N84-18240
2nd Joint Solar Dynamics Project data summary: Solar magnetic field, chromospheric and coronal observations near the time of the 11 June 1983 solar eclipse
[NASA-CR-173340] 09 p1417 N84-19272
Operational uses for a solar soft X-ray imaging telescope
[PB84-137538] 11 p1756 N84-21466
Summary of solar activity observed in the Mauna Loa Solar Observatory, 1980 - 1983
[PB84-137567] 11 p1760 N84-21484
A normal incidence, high resolution X-ray telescope for solar coronal observations
[NASA-CR-173516] 13 p2070 N84-23412
Origin and evolution of the Saturn system
13 p2073 N84-23433
Short-pulse short-wavelength optical probe for laser plasma
[DE84-006396] 14 p2230 N84-24375
Energetic electrons in impulsive solar flares
[NASA-TM-86102] 14 p2251 N84-24519
White light solar corona: An atlas of 1963 K-coronameter synoptic charts
[PB84-184159] 20 p3320 N84-31075
Pinhole/coronograph pointing control system integration and noise reduction analysis
[NASA-CR-171152] 23 p3750 N84-33773
SOLAR CORPUSCULAR RADIATION
NT SOLAR ELECTRONS
NT SOLAR NEUTRINOS
NT SOLAR PROTONS
SOLAR COSMIC RAYS
The behavior of the cosmic ray equatorial anisotropy inside fast solar wind streams ejected by coronal holes
[IFSI-82-16] 03 p0475 N84-13130
Turbulent heating in solar cosmic ray theory
[NASA-TM-85074] 06 p0840 N84-16108
SOLAR CYCLES
NT SUNSPOT CYCLE
Solar cycle variations of the solar wind
03 p0469 N84-13089
Solar cycle evolution of the solar wind in three dimensions
03 p0469 N84-13090
Solar cycle variations in the interplanetary magnetic field
03 p0469 N84-13091
Solar wind variations in the 60-100 year period range: A review
03 p0469 N84-13092
Periodicities in the occurrence of aurora as indicators of solar variability
03 p0470 N84-13093
The effect of the solar field reversal on the modulation of galactic cosmic rays
03 p0471 N84-13101
The average solar wind in the inner heliosphere: Structures and slow variations
03 p0472 N84-13105
A study of plasmaspheric density distributions for diffusive equilibrium conditions
[AD-A132643] 05 p0703 N84-14615
Low latitude F-region studies using the OI6300 angstrom and 7744 angstrom nightglow measurements at Cachoeira Paulista, Brazil
[INPE-3025-PRE/463] 12 p1847 N84-22040
Cosmic rays, solar activity, magnetic coupling, and lightning incidence
[NASA-CR-3812] 19 p3057 N84-29397
The variation of range type spread F occurrence with a solar cycle at Fortaleza and Cachoeira Paulista
[INPE-3209-PRE/566] 23 p3797 N84-34080
Some preliminary results of ionospheric slab thickness observations at Lunping
24 p3956 N84-35045
SOLAR DIAMETER
Preliminary studies of Solar Advance Observatory and Solar Beacon Facility
[NASA-CR-170937] 03 p0466 N84-13066
On the identification of normal modes of oscillation from observations of the solar periphery
[NASA-CR-173667] 19 p3123 N84-29844
Solar variability observed through changes in solar figure and mean diameter
[DE84-013914] 22 p3680 N84-33328
SOLAR DISK
U SUN
SOLAR ECLIPSES
VISSR observation of the solar eclipse in rapid-interval limited scan mode
09 p1347 N84-18802
On the infra-red brightness level increase caused by the sun light during the eclipse period
09 p1347 N84-18804
The orbit of Lageos and solar eclipses
[NASA-TM-86076] 12 p1923 N84-22525
Ionospheric effect of partial solar eclipse of 31 July 1981
17 p2704 N84-27224
Simultaneous retrieval of atmospheric temperatures and ray paths from occultation spectra
[NASA-CR-173649] 17 p2726 N84-27354
Lageos orbit and solar eclipses
20 p3221 N84-30465
SOLAR ELECTRIC PROPULSION
Discontinuous low thrust orbit transfer
[AD-A136908] 10 p1451 N84-19474
Structural sizing of a solar powered aircraft
[NASA-CR-172313] 16 p2448 N84-25702
SOLAR ELECTRONS
Energetic electrons in impulsive solar flares
[NASA-TM-86102] 14 p2251 N84-24519
Cutoff for solar cosmic rays in Earth's magnetosphere in magnetically quiet periods
19 p2973 N84-28849
Reconnection of magnetic fields
23 p3836 N84-34333
SOLAR ENERGY
Oil/salt hydrate direct-contact heat-exchange experiments
[DE83-009396] 01 p0082 N84-10533
Development of a solar-driven free-piston heat pump
[DE83-015024] 02 p0220 N84-11440
Matrix approach for testing mirrors, part 1
[DE83-009396] 02 p0242 N84-11585
Solar high and low temperature application for arid countries
[MBB-UR-583-82-OE] 02 p0251 N84-11640
Ground coupled heat-pump-system experimental results
[DE83-014011] 03 p0373 N84-12427
Thermochemical energy systems research
[DE83-012132] 03 p0404 N84-12644
Empirical validation of computer models for passive-solar residences
[DE83-016887] 03 p0457 N84-13005
Annotated bibliography of battery evaluations
[DE84-000853] 04 p0527 N84-13466
Collapsible photovoltaic-concentrator array portable power from the Sun
[DE84-000713] 04 p0558 N84-13677
Chemical conversion surfaces for solar-energy applications
[DE84-000107] 04 p0558 N84-13681
Developing proto-type pump which would utilize unique thermo-dynamic cycle
[DE84-000323] 05 p0688 N84-14523
High-temperature molten salt thermal energy storage systems for solar applications
[NASA-CR-167916] 06 p0873 N84-15879
Clear atmospheric effects on insolation illustrated by broad-band radiometer measurements
06 p0876 N84-15701
In vitro chlorophyll photosynthetic reaction
[PB84-104892] 08 p1198 N84-17810
Solar Thermal Technology Program: Polymer syntheals and characterization subtask, FY 1983
[DE84-000094] 10 p1530 N84-20022
Performance monitoring of active solar energy systems
[DE84-000027] 12 p1844 N84-22022
Study of solar array switching power management technology for spece power system
[NASA-CR-167890-EXEC-SUM]
13 p2008 N84-23021
Intensity and absorbed-power distribution in a cylindrical solar-pumped dye laser
[NASA-TP-2321] 14 p2150 N84-23878
Solar thermal system engineering guidebook
[NASA-CR-173432] 15 p2361 N84-25165
Basic and applied research related to the technology of space energy conversion systems, 1982 - 1983
[NASA-CR-173554] 15 p2361 N84-25168
Publications of the Jet Propulsion Laboratory 1982
[NASA-CR-173539] 15 p2417 N84-25510
Energy technology characterizations handbook: Environmental pollution and control factors, third edition
[DOE/EP-0093] 16 p2511 N84-26117
A theoretical analysis of natural convection towers for solar energy conversion
[DE83-011956] 16 p2512 N84-26118
Proceedings of the Passive and Hybrid Solar Energy Update
[CONF-830980] 16 p2513 N84-26125
Energy and peak power saved by passively cooled residences
16 p2513 N84-26130
Status of the class A performance evaluation program
16 p2514 N84-26134
Results from the NBS passive test building: A status report
16 p2514 N84-26135
Parameter estimation and infiltration tests at the repeat facility
16 p2514 N84-26136
Passive solar manufactured buildings development and analyses
16 p2514 N84-26137
The DOE passive solar commercial buildings program: Preliminary results of performance evaluation
16 p2515 N84-26141
Field instrumentation for the passive solar commercial buildings monitoring program
16 p2515 N84-26142
Thermal effects resulting from occupant behavior and building operation
16 p2515 N84-26143
Survey of design tools for passive and hybrid low energy buildings
16 p2516 N84-26147
Development of an evaluation methodology for passive solar design tools
16 p2516 N84-26148
Multi-family update to the passive solar construction handbook
16 p2516 N84-26149
Overview of Roof Pond Systems
16 p2516 N84-26150
The transfer of passive research and development results to industry and the user community
16 p2516 N84-26151
Passive solar design guidelines and evaluation criteria for builders
16 p2516 N84-26153
Convective heat transfer inside passive solar buildings
16 p2517 N84-26154
Development of solar materials and components
16 p2518 N84-26162

Department of Housing and Urban Development-Independent Agencies Appropriations Bill, 1985
[S-REPT-98-506] 16 p2568 N84-28476
Materials research activities at the National Bureau of Standards (1975-1982) pertaining to active solar heating and cooling systems
[PB84-154780] 17 p2725 N84-27332
Solar energy modulator
[NASA-CASE-NPO-15388-1] 18 p2867 N84-28203
CONC/11: A computer program for calculating the performance of dish-type solar thermal collectors and power systems
[NASA-CR-173735] 18 p2869 N84-28212
Second-law efficiency of solar-thermal cavity receivers
[NASA-CR-173732] 18 p2871 N84-28223
Concentrator development 18 p2871 N84-28225
Parabolic Dish Concentrator (PDC-1)
18 p2871 N84-28226
Parabolic Dish Concentrator (PDC-2) development
18 p2871 N84-28227
Optical analysis of Cassegrainian point focus concentrators 18 p2872 N84-28229
Procedures for acceptance testing of solar energy systems
[AD-A141839] 19 p3051 N84-29359
Open cycle lithium chloride cooling system
[DE84-005831] 20 p3184 N84-30234
Development of alternative energy science and engineering in the Caribbean
[PB84-181106] 20 p3237 N84-30552
SLR-PLUS version 1.0 reference manual
[DE84-009180] 20 p3274 N84-30781
Selected bibliography of solar thermal literature. Volume 1: Bibliography
[DE84-011386] 20 p3315 N84-31052
Appropriate technology management information system
[DE84-010952] 20 p3315 N84-31058
Stable density stratification solar pond
[NASA-CASE-NPO-15419-2] 22 p3616 N84-32910
Performance of passive solar and energy conserving houses in California
[SERI/STR-254-2017] 23 p3790 N84-34039
Documentation of data processing procedures and extension of Class B data analysis
[SERI/STR-254-2085] 23 p3815 N84-34189
Activities of the Technical Physics Service of the Dutch Central Organization for Scientific Research, past and present 23 p3845 N84-34393
Use of concentrated solar energy to form slip coatings
24 p3874 N84-34552
Saltless solar pond
[NASA-CASE-NPO-15808-1] 24 p3916 N84-34792

SOLAR ENERGY ABSORBERS
Evaluation of selective solar-absorber surfaces, phase 2
[DE84-000067] 04 p0559 N84-13685
Solar absorptance and thermal emittance of some common spacecraft thermal-control coatings
[NASA-RP-1121] 14 p2119 N84-23698
Development of a production process for central receiver coatings
[BMFT-FB-T-84-124] 23 p3792 N84-34051

SOLAR ENERGY CONVERSION
NT SOLAR TOTAL ENERGY SYSTEMS
Chemically derivatized semiconductor photoelectrodes
[AD-A130716] 01 p0152 N84-11003
Photoelectrochemical electrodes
[NASA-CASE-NPO-15458-1] 03 p0348 N84-12262
Reduction of CO2 to methanol and methane by photo and dark reactions on semiconductor electrodes
[PB83-249490] 03 p0358 N84-12329
Transactions of the Chinese Solar Energy Society (selected articles)
[AD-A131870] 03 p0403 N84-12637
Fourth International Conference on Photochemical Conversion and Storage of Solar Energy
[DE83-014760] 03 p0403 N84-12638
Solar pumped laser
[NASA-CASE-LAR-12870-1] 07 p1009 N84-16542
Analysis of a 10 megawatt space-based solar-pumped neodymium laser system
[NASA-CR-3774] 07 p1009 N84-16544
Solar thermal technology evaluation, fiscal year 1982. Volume 1: Executive summary
[NASA-CR-173190] 07 p1025 N84-16640
Solar thermal technology evaluation, fiscal year 1982. Volume 2: Technical
[NASA-CR-173191] 07 p1025 N84-16641
German/Indian cooperation program for solar powered water pumps, phase 1
[BMFT-FB-T-83-171] 07 p1026 N84-16651
Photochemical energy storage (photosensitized isomerization of norbornadiene to quadricyclane by copper (I) complexes)
[AD-A135363] 08 p1180 N84-17687
Meteorological/atmospheric effects on the performance of solar photovoltaic energy conversion devices
[DE84-000018] 11 p1674 N84-20927
Air- versus liquid-based solar-energy systems: A comparison of measured thermal performances
[ANL-83-45] 12 p1838 N84-21978
Active Program Research Requirements (APRR), volume 1
[DE84-002141] 12 p1921 N84-22513
Study of systems and technology for liquid hydrogen production independent of fossil fuels
[NASA-CR-173422] 13 p1965 N84-22768
Wind and solar powered turbine
[NASA-CASE-NPO-15496-1] 13 p2007 N84-23018
Solar-assisted hydrogen generation by photoelectrocatalysis: Electric birefringence and ellipsometric spectroscopy of the semiconductor/electrolyte interface
[PB84-169604] 15 p2288 N84-24731
Qualification testing of solar photovoltaic powered refrigerator freezers for medical use in remote geographic locations
[NASA-CR-168181] 15 p2361 N84-25162
Solar photovoltaic powered refrigerators/freezers for medical use in remote geographic locations
[NASA-CR-168268] 15 p2361 N84-25163
Operational demonstration of a field of high performance flat plate collectors with isothermal heat transport
[BMFT-FB-T-83-2] 15 p2362 N84-25171
Technical use of solar energy. Part 1. Thin films solar cells
[BMFT-FB-T-83-298-PT-1] 15 p2362 N84-25172
Technical use of solar energy: Conversion from solar to thermal energy, solar cooling and thermal energy storage
[BMFT-FB-T-83-300] 15 p2362 N84-25173
Solar molten salt electric experiment
[DE84-006340] 15 p2363 N84-25178
Photovoltaic energy systems: Program summary fiscal year 1983
[DE84-009179] 15 p2364 N84-25186
Strategies for solar energy conversion utilizing metal complexes
[DE84-006184] 15 p2364 N84-25187
Initial results from testing passive solar components in the NBS calorimeter 16 p2517 N84-26160
Improvement of flat plate collectors for solar energy conversion
[BMFT-FB-T-84-042] 16 p2519 N84-26167
Materials Research Laboratory report
[AD-A140698] 17 p2769 N84-27580
Safety-related requirements for photovoltaic modules and arrays
[NASA-CR-173747] 18 p2868 N84-28208
CONC/11: A computer program for calculating the performance of dish-type solar thermal collectors and power systems
[NASA-CR-173735] 18 p2869 N84-28212
Second-law efficiency of solar-thermal cavity receivers
[NASA-CR-173732] 18 p2871 N84-28223
Advanced solar receivers 18 p2872 N84-28232
Advanced solar power systems
18 p2872 N84-28235
On solar thermal electric power capacity sizing
18 p2872 N84-28236
Recent developments: PKI square dish for the Soleras Project 18 p2873 N84-28237
Continuing research at Solar Steam, Incorporated
18 p2873 N84-28238
SPIKE-2: A practical Stirling engine for kilowatt level solar power 18 p2873 N84-28239
Stirling module development overview
18 p2873 N84-28240
Parabolic dish Stirling module
18 p2873 N84-28241
United Stirling's solar engine development: The background for the Vanguard engine
18 p2873 N84-28242
Vanguard concentration 18 p2873 N84-28244
Brayton module development overview
18 p2874 N84-28245
Near-term Brayton module status
18 p2874 N84-28246
Subatmospheric Brayton-cycle engine program review
18 p2874 N84-28247
LEC system development 18 p2874 N84-28248
Solar Total Energy Project (STEP) performance analysis of high temperature energy storage subsystem
18 p2874 N84-28249
White Cliffs: Operating experience
18 p2874 N84-28250
Operational experience from solar thermal energy projects 18 p2874 N84-28251
Deployment of a secondary concentrator to increase the intercept factor of a dish with large slope errors
18 p2875 N84-28252
The base engine for solar Stirling power
18 p2875 N84-28254
Plasmon device design: Conversion from surface to junction plasmons with grating-couplers
19 p3047 N84-29330
Interactions between volume and surface EM waves in layered structures 19 p3047 N84-29331
Preliminary concept of a 100-kilowatt miniaturized Cassegrainian concentrator solar array
19 p3047 N84-29332
Performance measurement of low concentration ratio solar array for space application
19 p3047 N84-29333
Photovoltaic-electrolyzer system transient simulation results
[DE84-010217] 20 p3149 N84-29995
Engineering scoping study of the production of hydrogen and oxygen from the cerium oxide-sodium phosphate/carbonate thermochemical cycle
[DE84-010629] 20 p3150 N84-29998
Theoretcial studies of solar-pumped lasers
[NASA-CR-173833] 20 p3192 N84-30274
Photo/Biological Hydrogen Principal Investigators Review Meeting: Proceedings of the May 1983 Program Review
[DE84-000083] 20 p3235 N84-30536
Proceedings of the DOE Physical and Chemical Energy Storage Annual Contractors' Review Meeting
[DE83-017536] 20 p3236 N84-30540
Electrochromic materials for the regulation of solar energy transmission through windows
[DE84-012165] 20 p3311 N84-31029
USSR report: Space
[JPRS-USP-84-004] 21 p3347 N84-31228
Pravda cites advantages of project for orbiting solar reflectors 21 p3347 N84-31235
Selected bibliography of solar thermal literature. Volume 2: Indexes
[DE84-009363] 21 p3518 N84-32268
The NASA photovoltaic technology program
[NASA-TM-83685] 22 p3542 N84-32426
Proceedings of the Flat-Plate Solar Array Project Research Forum on the Design of Flat-Plate Photovoltaic Arrays for Central Stations
[NASA-CR-173918] 22 p3582 N84-32683
Source-circuit design overview
22 p3582 N84-32684
Source-circuit design with multiple photovoltaic manufacturers 22 p3582 N84-32685
Bi-directional control system for energy flow in a solar powered flywheel
[NASA-CASE-MFS-25978-1] 22 p3616 N84-32913
Review of solar fuel-producing quantum conversion processes
[NASA-CR-173904] 22 p3617 N84-32916
Solar photochemical process engineering for production of fuels and chemicals
[NASA-CR-173910] 22 p3617 N84-32917
A nomographic methodology for use in performance trade-off studies of parabolic dish solar power modules
[NASA-CR-173908] 22 p3617 N84-32918
Survey of manufacturers of high-performance heat engines adaptable to solar applications
[NASA-CR-173911] 22 p3617 N84-32919
Flate-plate photovoltaic power systems handbook for Federal agencies
[NASA-CR-173901] 22 p3617 N84-32921
Proceedings of the Solar Thermal-Photochemical Conversion Workshop
[DE84-000089] 22 p3619 N84-32929
High-efficiency multi-colored photovoltaic cells
[PB84-200575] 22 p3619 N84-32932
Design, analysis and test verification of advanced encapsulation systems
[NASA-CR-173955] 23 p3787 N84-34016
Solar energy. M.A.N. systems and their efficiency
23 p3791 N84-34045
Development of a production process for central receiver coatings
[BMFT-FB-T-84-124] 23 p3792 N84-34051
Thin-film photovoltaic research and development program of the Solar Energy Research Institute
[SERI/TP-211-2125] 23 p3829 N84-34290

SOLAR FACULAE
U FACULAE

SOLAR FLARES
Solar-geophysical data number 465, May 1983. Part 2: (Comprehensive reports). Data for November 1982, October 1980 and miscellanea
[PB83-228551] 01 p0165 N84-11061

Solar-Geophysical Data number 465, May 1983. Part 1: Prompt reports. Data for April and March 1983, and late data
[PB83-226544] 02 p0305 N84-12005
Influence of the magnetic field in the temporal evolution of solar flare X-ray and microwave radiation
[INPE-2842-TDL/140] 02 p0308 N84-12020
The Owens Valley frequency-agile interferometer
[AD-A131825] 03 p0377 N84-12453
Solar wind disturbances in th outer heliosphere caused by successive solar flares from the same active region
03 p0472 N84-13104
Modeling of transient disturbances in coronal-streamer configurations 03 p0474 N84-13119
Associations between coronal mass ejections and interplanetary shocks 03 p0474 N84-13121
Interplanetary perturbations associated with type 4 solar flares
[IFSI-82-6] 03 p0475 N84-13129
Characteristics of gamma-ray line flares
[NASA-CR-174606] 04 p0621 N84-14098
Decimetric gyrosynchrotron emission during a solar flare
[NASA-TM-85123] 06 p0940 N84-16107
Turbulent heating in solar cosmic ray theory
[NASA-TM-85074] 06 p0940 N84-16108
Rapid magnetic energy release, its possible role in coronal heating and solar wind acceleration
[AD-A133170] 07 p1093 N84-17106
The isotopic composition of energetic particles emitted from a large solar flare 08 p1245 N84-18140
The interpretation of hard X-ray polarization measurements in solar flares
[NASA-CR-172790] 08 p1246 N84-18142
Solar-geophysical data center number 467, July 1983, part 1 (prompt reports). Data for June 1983, May 1983 and late data
[PB84-100486] 08 p1246 N84-18144
Solar-geophysical data number 467, July 1983, part 2 (comprehensive reports). Data for January 1983, November 1980 and miscellanea
[PB84-100494] 08 p1246 N84-18145
The ISPM solar-flare X-ray and cosmic gamma-ray burst experiment 09 p1262 N84-18238
Neutrons and gamma rays from solar flares
09 p1406 N84-19187
Evaluation of the quality of predictions in the case of a variable with strongly asymmetric distribution — solar flares 09 p1410 N84-19215
A homologous microwave flare on May 29, 1980
09 p1413 N84-19246
A balloon-borne high-resolution spectrometer for observations of gamma-ray emission from solar flares
[NASA-TM-86069] 09 p1416 N84-19266
A study of the magnetic evolution of active regions and its relation to solar flares
[AD-A135085] 09 p1416 N84-19267
Solar flares: An extreme of reconnection
[DE84-004413] 10 p1597 N84-20467
The impulsive hard X-rays from solar flares
[NASA-CR-175431] 11 p1759 N84-21480
Analysis of flares observed during the solar maximum year
[AD-A137922] 11 p1759 N84-21481
On the rate of energy input in thermal solar flares
[AD-A138345] 13 p2092 N84-23548
Computer modeling of fast collisionless reconnection
[DE84-006714] 14 p2229 N84-24367
Energetic electrons in impulsive solar flares
[NASA-TM-86102] 14 p2251 N84-24519
A catalog of solar white-light flares, including their statistical properties and associated emissions, 1859 - 1982
[AD-A136645] 14 p2251 N84-24521
Thermal and nonthermal phenomena in solar flare loops at 20 cm wavelength and in X-rays
[NASA-CR-173429] 14 p2252 N84-24522
Solar-Geophysical Data number 471, November 1983. Part 1: (Prompt reports). Data for October 1983, September 1983 and late data
[PB84-156991] 14 p2252 N84-24523
Acceleration of runaway electrons and Joule heating in solar flares
[NASA-TM-86112] 15 p2428 N84-25583
Very large array observations of solar active regions
[AD-A139287] 15 p2428 N84-25586
High resolution hard X-ray spectra of solar and cosmic sources
[NASA-CR-173561] 15 p2429 N84-25587
Acceleration and confinement of energetic particles in the 7 June 1980 solar flare
[NASA-CR-173545] 16 p2580 N84-26550
Timing analysis of hard X-ray emission and 22 GHz flux and polarization in a solar burst
[INPE-3103-PRE/502] 16 p2581 N84-26551
Hard X-ray and microwave morphology
[NASA-CR-173566] 16 p2582 N84-26559
Nighttime mesospheric returns associated with a large scale flare event 17 p2686 N84-27103
Interaction of the plasma tail of comet Bradfield 1979L on 1980 February 6 with a possibly flare-generated solar-wind disturbance
[NASA-TM-85617] 17 p2777 N84-27632
Boundary conditions for the phenomena of solar bursts established from the statistical behavior of hard X-ray bands
[INPE-2906-TDL/147] 17 p2780 N84-27653
Equivalent electron fluence for solar proton damage in GaAs shallow junction cells 19 p3046 N84-29324
Solar-geophysical data prompt reports, February 1984, number 474. Part 1: Data for January 1984, December 1983 and late data. Explanation of data reports issued as number 474 (supplement) February 1984
[PB84-188689] 20 p3320 N84-31076
Solar-geophysical data comprehensive reports, February 1984, number 474. Part 2: Data for August 1983, April 1981 and miscellanea. Explanation of data reports issued as number 474 (supplement) February 1984
[PB84-188671] 20 p3320 N84-31077
Solar-geophysical data explanation of reports, February 1984, number 474, supplement
[PB84-188697] 20 p3320 N84-31078
Observations and analysis of solar flares using H Alpha spectral profiles 21 p3526 N84-32335
Solar flares and magnetospheric particles: investigations based upon the ONR-602 experiment
[AD-A143144] 21 p3526 N84-32336
Microwave and X-ray observations of delayed brightenings at sites remote from the primary flare locations
[NASA-TM-86140] 22 p3680 N84-33326
Solar-Geophysical Data, no. 475, March 1984. Part 1: Prompt reports. Data for September 1983, May 1981
[PB84-201506] 22 p3680 N84-33329
Solar-Geophysical Data, no. 475, March 1984. Part 2: Comprehensive reports. Data for September 1983, May 1981 and miscellanea
[PB84-201516] 22 p3680 N84-33330
Solar Terrestrial Physics: Present and Future
[NASA-RP-1120] 23 p3836 N84-34332
Reconnection of magnetic fields
23 p3836 N84-34333
Particle acceleration 23 p3836 N84-34334
Coronal transients and their interplanetary effects
23 p3837 N84-34338
Impact of flares on the solar terrestrial environment
23 p3837 N84-34341
Studies of solar magnetic fields during the solar maximum year
[NASA-TM-86469] 24 p3992 N84-35265
A numerical simulation study of solar wind disturbances responsible for geomagnetic and auroral storms
[AD-A144178] 24 p3993 N84-35266
About the profile of cosmic ray intensity increase prior to Forbush-decrease 24 p3994 N84-35279
Large scale solar modulation of 500 MeV/N galactic cosmic rays seen from 1-30 AU
[NASA-CR-173993] 24 p3995 N84-35283

SOLAR FLUX
NIMBUS-7 SBUV (Solar Backscatter Ultraviolet) observations of solar UV spectal irradiance variations caused by solar rotation and active-region evolution for the period November 7, 1978 - October 26, 1979
[PB84-108166] 08 p1188 N84-17743
Sun focusing by satellite antenna reflectors
10 p1445 N84-19439
Solar flares: An extreme of reconnection
[DE84-004413] 10 p1597 N84-20467
Photochemical modeling of the Earth's stratosphere
13 p2013 N84-23058
Interaction of convection and small-scale magnetic fields: Influence on the solar luminosity
17 p2779 N84-27642

SOLAR FLUX DENSITY
NT SOLAR CONSTANT
Associations between coronal mass ejections and interplanetary shocks 03 p0474 N84-13121
Bright, rapid, highly polarized radio spikes from the M dwarf AD Leo
[AD-A136205] 09 p1418 N84-19275
Accuracy of the short wave radiation budget derived from Meteosat-VIS-data 10 p1535 N84-20055
Extragalactic radio sources: Rapid variability at 90 GHz
[AD-A136533] 10 p1595 N84-20451
User's guide for ERB-7 SEFDT. Volume 3: Quality control report for year-2
[NASA-CR-170618] 16 p2581 N84-26552
The K2-Dwarf V471 TAU: A stellar version of solar variability 17 p2779 N84-27647
Solar energy modulator
[NASA-CASE-NPO-15388-1] 18 p2867 N84-28203

SOLAR GENERATORS
NT HOMOJUNCTIONS
NT SOLAR CELLS
Development and prototype production of photovoltaic energy supply systems
[BMFT-FB-T-83-238] 10 p1531 N84-20025
Technical applications of solar energy. Project photovoltaic systems and project selective coatings
[BMFT-FB-T-83-299] 12 p1844 N84-22025
Wind and solar powered turbine
[NASA-CASE-NPO-15496-1] 13 p2007 N84-23018
Thermodynamic model for a central receiver of a solar plant with partial shading of the heliostat field
[ESA-TT-807] 13 p2010 N84-23034
Proceedings of the Fifth Parabolic Dish Solar Thermal Power Program
[NASA-CR-173745] 18 p2871 N84-28224
Power plants in space
[AD-A142099] 19 p2983 N84-28902
Preflight study of San Marco D/L GaAs solar cell panels 19 p3047 N84-29334

SOLAR GRANULATION
Recent ground-based observations of the global properties of the Sun 17 p2779 N84-27644

SOLAR GRAVITATION
Light deflection and time delay in the solar gravitational field 05 p0748 N84-14900
Detection of solar gravity mode oscillations
[NASA-CR-173642] 17 p2781 N84-27655

SOLAR HEATING
Analysis of a solar heat pipe heating and absorption cooling system 01 p0076 N84-10496
Oil/salt hydrate direct-contact heat-exchange experiments
[DE83-009396] 01 p0082 N84-10533
Parameterization of solar radiative transfer in clear and cloudy atmospheres 02 p0246 N84-11608
Reliability and maintainability study of select solar-energy-system components in the National Solar Data Network
[DE83-011974] 03 p0404 N84-12647
Passive-solar performance: Summary of 1981-1982 class B results
[DE83-009407] 03 p0405 N84-12650
Developing proto-type pump which would utilize unique thermo-dynamic cycle
[DE84-000323] 05 p0688 N84-14523
Evaluation of air-cooled central receivers
[DE83-005130] 06 p0833 N84-15423
Stirling engines with controlled evaporation of a two-phase two-component working fluid
[DE83-017284] 06 p0853 N84-15560
Passive solar design procedures for Naval installations
[AD-A136329] 09 p1341 N84-18760
Active solar heating and cooling program. Polymer stabilization film-forming, high-temperature polymers
[DE84-000093] 11 p1675 N84-20929
Low-temperature IPH parabolic troughs: Design variations and cost-reduction potential
[DE84-000024] 12 p1843 N84-22016
A correction factor to f-chart predictions of active solar fraction in active-passive heating systems
16 p2513 N84-26127
Parameter estimation and infiltration tests at the repeat facility 16 p2514 N84-26136
International energy agency solar heating and cooling programme: Task 8, passive and hybrid solar low energy buildings 16 p2515 N84-26140
Convective heat transfer inside passive solar buildings
16 p2517 N84-26154
Phase change materials for use in passive and hybrid solar heating and cooling systems
16 p2518 N84-26164
DOE-2, BDL summary, version 2.1B
[LBL-8688-REV-3] 16 p2519 N84-26170
Economics of installation of solar heating plants
17 p2641 N84-26896
Materials research activities at the National Bureau of Standards (1975-1982) pertaining to active solar heating and cooling systems
[PB84-154780] 17 p2723 N84-27332
Procedures for acceptance testing of solar energy systems
[AD-A141839] 19 p3051 N84-29359
Simplified method for estimating the cooling loads of passive solar systems
[DE84-009474] 20 p3235 N84-30538
Selected bibliography of solar thermal literature. Volume 1: Bibliography
[DE84-011386] 20 p3315 N84-31052
Solar-heated oil shale retort
[NASA-CASE-NPO-16392-1] 22 p3616 N84-32912

SOLAR HOUSES
Design and fabrication of a prototype system for photovoltaic residences in the southwest
[DE82-016271] 05 p0700 N84-14592
Measured versus predicted performance of the SERI test house: A validation study 16 p2513 N84-26128
Results from the NBS passive test building: A status report 16 p2514 N84-26135
Passive solar manufactured buildings development and analyses 16 p2514 N84-26137
Measured performance of 50 passive solar residences in the United States 16 p2514 N84-26138
Development of an industry-based residential thermal program evaluation program 16 p2515 N84-26139
Multi-family update to the passive solar construction handbook 16 p2516 N84-26149
Passive solar design guidelines and evaluation criteria for builders 16 p2516 N84-26153

SOLAR INSTRUMENTS
NT SPECTROHELIOGRAPHS
Fine pointing control of the solar UV telescope on the sounding rocket S-520-5
[ISAS-608] 06 p0938 N84-16094

SOLAR LASERS
U SOLAR-PUMPED LASERS

SOLAR LIMB
Ground-based measurements of solar irradiance variations 17 p2778 N84-27639
Photometric studies of heat flow at the photosphere 17 p2779 N84-27641
Limb darkening variations 17 p2779 N84-27645
Thermal bifurcation in the upper solar photosphere inferred from heterodyne spectroscopy of OH rotational lines
[NASA-TM-86128] 17 p2781 N84-27654
On the identification of normal modes of oscillation from observations of the solar periphery
[NASA-CR-173667] 19 p3123 N84-29844

SOLAR MAGNETIC FIELD
Solar-Geophysical Data number 465, May 1983. Part 1: Prompt reports. Data for April and March 1983, and late data
[PB83-228544] 02 p0305 N84-12005
Spatial dependences in the distant solar wind: Pioneers 10 and 11 03 p0472 N84-13107
Solar-geophysical data center number 467, July 1983, part 1 (prompt reports). Data for June 1983, May 1983 and late data
[PB84-100486] 08 p1246 N84-18144
The magnetic-field investigation on ISPM 09 p1260 N84-18230
Differential rotation of solar background magnetic fields during the 20th solar cycle 09 p1410 N84-19214
A study of the magnetic evolution of active regions and its relation to solar flares
[AD-A135085] 09 p1416 N84-19267
2nd Joint Solar Dynamics Project data summary: Solar magnetic field, chromospheric and coronal observations near the time of the 11 June 1983 solar eclipse
[NASA-CR-173340] 09 p1417 N84-19272
The new MSFC Solar vector magnetograph. Center director's discretionary fund
[NASA-TM-82568] 10 p1497 N84-19786
A study of coronal precursors of solar flares
[AD-A137163] 11 p1759 N84-21482
Energetic electrons in impulsive solar flares
[NASA-TM-86102] 14 p2251 N84-24519
Solar-Geophysical Data number 471, November 1983. Part 1: (Prompt reports). Data for October 1983, September 1983 and late data
[PB84-156991] 14 p2252 N84-24523
Interaction of convection and small-scale magnetic fields: Influence on the solar luminosity 17 p2779 N84-27642
Solar-geophysical data prompt reports, February 1984, number 474. Part 1: Data for January 1984, December 1983 and late data. Explanation of data reports issued as number 474 (supplement) February 1984
[PB84-188689] 20 p3320 N84-31076
Solar-geophysical data explanation of reports, February 1984, number 474, supplement
[PB84-188697] 20 p3320 N84-31078
Solar-Geophysical Data, no. 475, March 1984. Part 1: Prompt reports. Data for September 1983, May 1981
[PB84-201508] 22 p3680 N84-33329
Solar Terrestrial Physics: Present and Future
[NASA-RP-1120] 23 p3836 N84-34332
Reconnection of magnetic fields 23 p3836 N84-34333
Evolution of solar magnetic flux 23 p3836 N84-34335
Real-time solar magnetograph operation system software design and user's guide
[NASA-TM-86467] 24 p3945 N84-34976
Studies of solar magnetic fields during the solar maximum year
[NASA-TM-86469] 24 p3992 N84-35265

SOLAR MAXIMUM MISSION
SMM-UVSP ozone profile inversion programs
[NASA-CR-175216] 10 p1533 N84-20042
Comet nucleus sample return mission
[NASA-CR-173501] 13 p1936 N84-22592
Research in solar physics: Some techniques for analyzing data from the ultraviolet spectrometer and polarimeter
[NASA-CR-171035] 15 p2428 N84-25584
Hard X-ray and microwave morphology
[NASA-CR-173568] 16 p2582 N84-26559
Solar total irradiance variability measurements by the SMM/ACRIM I experiment 17 p2778 N84-27636
Facular limb-darkening functions for irradiance modeling 17 p2778 N84-27638
Repairing Solar Max: The Solar Maximum Repair Mission
[NASA-EP-205] 19 p2979 N84-28883
EMU battery/module service tool characterization study 23 p3739 N84-33696
The role of the Shuttle Engineering Simulator in the Solar Max rescue mission 24 p3864 N84-34489

SOLAR MESOSPHERE EXPLORER
JPL closeup
[NASA-CR-175324] 06 p0793 N84-15168

SOLAR NEBULA
U SOLAR CORONA

SOLAR NEUTRINOS
Physics at the proposed National Underground Science Facility
[DE84-001345] 04 p0488 N84-13203
The analysis of solar models: Neutrinos and oscillations
[NASA-CR-173628] 17 p2780 N84-27652
The 19th Moriond meeting: Summary talk
[DE84-010053] 20 p3319 N84-31072

SOLAR NOISE
U SOLAR RADIO EMISSION

SOLAR OBLATENESS
The shape of the Sun 21 p3526 N84-32334
Solar variability observed through changes in solar figure and mean diameter
[DE84-013914] 22 p3680 N84-33328

SOLAR OBSERVATORIES
Preliminary studies of Solar Advance Observatory and Solar Beacon Facility
[NASA-CR-170937] 03 p0466 N84-13066
Computer communications with Mauna Loa Solar Observatory
[PB84-137256] 11 p1705 N84-21114

SOLAR OPTICAL TELESCOPE
Ultraviolet response of film candidates for the solar optical telescope photometric filtergraph
[NASA-CR-175254] 22 p3656 N84-33178

SOLAR ORBITS
NT APHELIONS
NT PERIHELIONS
Quasi-steady solar wind dynamics 03 p0474 N84-13120
Comet nucleus sample return mission
[NASA-CR-173501] 13 p1936 N84-22592
Guaranteed accuracy in determining orbit of Halley's Comet 19 p2973 N84-28845

SOLAR OSCILLATIONS
Evaluation of the significance of the data on the 160.01 min oscillations of the Sun treated by the superposed epoch analysis 09 p1408 N84-19203
Measurements of the solar 160 min oscillation at the Metsaehovi radio research station in 1980-1982 and comparison with the results at the Crimean Astrophysical Observatory
[REPT-S-138] 09 p1416 N84-19268
The analysis of solar models: Neutrinos and oscillations
[NASA-CR-173628] 17 p2780 N84-27652
Detection of solar gravity mode oscillations
[NASA-CR-173642] 17 p2781 N84-27655
On the identification of normal modes of oscillation from observations of the solar periphery
[NASA-CR-173667] 19 p3123 N84-29844
MHD waves and turbulence in the Sun and interplanetary medium 23 p3837 N84-34336
Resonant 3-wave interactions and an application to the 160 minute solar oscillation 24 p3992 N84-35263

SOLAR PHYSICS
Challenges to astronomy and astrophysics: Working documents of the Astronomy Survey Committee
[PB83-203984] 01 p0165 N84-11080
Detection of solar gravity mode oscillations
[NASA-CR-174469] 01 p0165 N84-11086
Proceedings of the STIP (Study of Travelling Interplanetary Phenomena) Symposium on Solar Radio Astronomy, Interplanetary Scintillations and Coordination with Spacecraft
[AD-A130687] 01 p0165 N84-11087
Activities report of the Institute of Astronomy and Astrophysics 03 p0463 N84-13048
Solar-geophysical data prompt report, no. 466. Data for May 1983, April 1983 and late data. Explanation of data reports issued as number 462 (supplement), part 1
[PB83-253435] 07 p1093 N84-17107
Space research in the Netherlands 09 p1407 N84-19194
Solar-geophysical data number 468, August 1983. Part 2. (Comprehensive reports). Data for February 1983 and miscellanea
[PB84-116581] 09 p1417 N84-19271
Solar-geophysical data number 469, September 1983, part 2 (comprehensive reports). Data for March 1983 and miscellanea
[PB84-125921] 09 p1417 N84-19274
Interaction of convection and small-scale magnetic fields: Influence on the solar luminosity 17 p2779 N84-27642
Photometric variations of solar-type stars: Results of the Cloudcroft survey 17 p2779 N84-27646
The effect of dimensionality on solar spectrum curves
[DE84-014136] 22 p3680 N84-33327

SOLAR PLANETARY INTERACTIONS
NT SOLAR TERRESTRIAL INTERACTIONS
Application of a global solar wind/planetary obstacle interaction computational model: Earth, Venus, Mars, Jupiter and Saturn studies
[NASA-CR-173531] 16 p2572 N84-26509
Application of a global solar wind/planetary obstacle interaction computational model: Earth, Venus, Mars, Jupiter and Saturn studies 16 p2572 N84-26510
Magnetic field draping against the dayside magnetopause 16 p2573 N84-26514

SOLAR PLASMA (RADIATION)
U SOLAR WIND

SOLAR PONDS (HEAT STORAGE)
Development of a point-electrode conductivity salinometer with high-spatial-resolution for use in very-saline solutions
[DE83-011170] 01 p0085 N84-10550
The salt-gradient solar pond
[AD-A126702] 08 p0873 N84-15683
Solar pond performance estimation, engineering design, and construction experience
[DE84-003992] 11 p1674 N84-20924
Overview of Roof Pond Systems 16 p2516 N84-26150
Stable density stratification solar pond
[NASA-CASE-NPO-15419-2] 22 p3616 N84-32910
Saltless solar pond
[NASA-CASE-NPO-15808-1] 24 p3916 N84-34792

SOLAR POSITION
The effects of solar incidence angle over digital processing of LANDSAT data
[E84-10007] 01 p0099 N84-10641
Evaluation of the effects of the seasonal variation of solar elevation angle and azimuth on the processes of digital filtering and thematic classification of relief units
[E84-10121] 14 p2167 N84-23960
Evaluation of solar angle variation over digital processing of LANDSAT imagery — Brazil
[E84-10140] 16 p2507 N84-26088

SOLAR POWER GENERATION
U SOLAR GENERATORS

SOLAR POWER SATELLITES
Sensitivity analysis of the influence of the flexibility of solar panels on the attitude dynamics of artificial satellites
[INPE-2763-PRE/337] 07 p0961 N84-16232
Low authority control of flexible spacecraft via numerical optimization 15 p2268 N84-24621

SOLAR POWER SOURCES
U SOLAR GENERATORS

SOLAR POWERED AIRCRAFT
Solar powered aircraft
[NASA-CASE-LAR-12615-1] 03 p0330 N84-12154
A preliminary study of solar powdered aircraft and associated power trains
[NASA-CR-3699] 04 p0486 N84-13194
Solar-cell airplane Solair 1
[NASA-TM-77061] 07 p0950 N84-16164
SUN WORSHIPER: McCready's Solar Challenger flies over the English Channel
[NASA-TM-77327] 07 p0950 N84-16166
Structural sizing of a solar powered aircraft
[NASA-CR-172313] 16 p2448 N84-25702

SOLAR PROBES
NT HELIOS A
NT HELIOS B
NT HELIOS 1
NT HELIOS 2

SOLAR PROPULSION
NT SOLAR ELECTRIC PROPULSION
NT SOLAR THERMAL PROPULSION
Solar-cell airplane Solair 1
[NASA-TM-77061] 07 p0950 N84-16164

SOLAR PROTONS
Cutoff for solar cosmic rays in Earth's magnetosphere in magnetically quiet periods 19 p2973 N84-28649
Solar-geophysical data explanation of reports, February 1984, number 474, supplement
[PB84-188697] 20 p3320 N84-31078

SOLAR RADIATION
NT CIRCUMSOLAR RADIATION
NT SOLAR COSMIC RAYS
NT SOLAR ELECTRONS
NT SOLAR NEUTRINOS
NT SOLAR PROTONS
NT SOLAR RADIO BURSTS
NT SOLAR RADIO EMISSION
NT SOLAR WIND
NT SOLAR X-RAYS
NT SUNLIGHT
Solar radiative impacts of graphitic carbon (soot) in aerosols, clouds and snow 02 p0243 N84-11592
Solar EUV, XUV and soft X-ray telescope facilities
[NASA-CR-170602] 02 p0305 N84-11999
Influence of the magnetic field in the temporal evolution of solar flare X-ray and microwave radiation
[INPE-2842-TDL/140] 02 p0308 N84-12020
Impact of enhanced solar UV-B radiation upon the marine ecosystem
[PB83-247411] 04 p0560 N84-13694
Yields photosynthetic efficiencies, and proximate chemical composition of dense cultures of marine microalgae, a subcontract report
[DE83-011992] 04 p0570 N84-13757
Solar radiation tests
[AD-A133689] 05 p0684 N84-14497
An anisotropic model of diffuse solar radiation with application to an optimization of compound parabolic collectors 05 p0765 N84-15017
Pacific Northwest solar radiation data
[DE84-002335] 06 p0882 N84-15738
SUN WORSHIPER: McCready's Solar Challenger flies over the English Channel
[NASA-TM-77327] 07 p0950 N84-16166
Analysis of a 10 megawatt space-based solar-pumped neodymium laser system
[NASA-CR-3774] 07 p1009 N84-16544
Stratospheric determination of effective photodissociation cross sections for molecular oxygen: 191-204 nm
[AD-A134168] 07 p1034 N84-16706
Local effects of partly-cloudy skies on solar and emitted radiations
[NASA-CR-173189] 07 p1035 N84-16711
Parameterization of cloud effects on the absorption of solar radiation
[NASA-CR-175154] 07 p1035 N84-16712
Design and verification of a cloud field optical simulator
[NASA-CR-173274] 07 p1035 N84-16717
Videopolarimetry of water surfaces
[BMFT-FB-W-83-020] 07 p1075 N84-16990
Theoretical studies of solar-pumped lasers
[NASA-CR-173263] 08 p1164 N84-17576
The retrieval of atmospheric constituent mixing-ratio profiles from solar absorption spectra
[NASA-CR-173303] 08 p1186 N84-17730
Light scattering condensation nuclei, and air mass trajectories at Whiteface Mountain: Summer 1982
[PB84-104363] 08 p1188 N84-17742
NIMBUS-7 SBUV (Solar Backscatter Ultraviolet) observations of solar UV spectal irradiance variations caused by solar rotation and active-region evolution for the period November 7, 1978 - October 26, 1979
[PB84-106166] 08 p1188 N84-17743
A determination of the constants for a second-order closure turbulence model from geophysical data
[AD-A134826] 08 p1195 N84-17795
Proposals for VIRA (Venus International Reference Atmosphere): Solar and thermal radiation
[PR-829] 08 p1244 N84-18135
Passive solar design procedures for Naval installations
[AD-A136329] 09 p1341 N84-18760
Neutrons and gamma rays from solar flares
09 p1406 N84-19187
Development of a spacecraft infrared test technique as an alternative to solar simulation: First steps on L-SAT thermal model 10 p1439 N84-19396
IRSIM: A program for the calculation of infrared flux intensity incident on a spacecraft inside a test chamber
10 p1440 N84-19400
Measurement of alpha/epsilon ratio by using a Sun pointing satellite Tansei 4 10 p1446 N84-19447
Measurement of incidence angle dependence of solar absorptance — spacecraft materials
10 p1447 N84-19452
Starprobe thermal shield evolution
10 p1448 N84-19462
Aerosol detection by polarization measurements
10 p1535 N84-20057
Design and verification of a cloud field optical simulator 10 p1578 N84-20339
Computing the radiation pressure forces by adapting thermal design verification softwares — large space structures 12 p1780 N84-21613
Effects of solar radiation on glasses
15 p2279 N84-24685
Passive Sun seeker/tracker and a thermally activated power module 15 p2348 N84-25089
The design and development of a solar tracking unit
15 p2348 N84-25090
Optical properties of melting snow, 1
15 p2354 N84-25122
Global radiation from satellite measurements
[MITT-37] 18 p2867 N84-28200
Solar concentrator protective system
[NASA-CASE-NPO-15662-1] 18 p2867 N84-28204
Preliminary comparison of insolation measurements, forecasts, and estimates from satellite imagery
[DE84-004435] 18 p2883 N84-28293
Inevitable climatic changes 20 p3223 N84-30480
Solar Radiation Data Directory: A guide to solar radiation and meteorological data collection activities in the US
[DE84-000095] 20 p3315 N84-31057
The NOAA-ERL-ARL solar UV radiation and climate research project program description
[PB84-183292] 20 p3319 N84-31070
Observations of radiation exchange above and below Amazonian forest
[INPE-3194-PRE/558] 21 p3447 N84-31870
Geophysical monitoring for climatic change Number 11,
[PB84-181841] 21 p3449 N84-31883
The effect of dimensionality on solar spectrum curves
[DE84-014136] 22 p3680 N84-33327
Radiation measurement of snowy season in 1982-1983 at Sapporo 23 p3762 N84-33845
Insolation assessment studies
[DE84-004523] 23 p3798 N84-34084
The spatial and temporal distribution of diffuse and direct solar radiation in the Federal Republic of Germany
[BMFT-FB-T-84-125] 23 p3802 N84-34110
Tape heating method for space simulation testing
24 p3864 N84-34488
Solar thermal propulsion: An investigation of solar radiation absorption in a working fluid
[AD-A144294] 24 p3917 N84-34797
Solar influence on terrestrial weather and global lightning patterns via cosmic ray modulations
24 p3927 N84-34855

SOLAR RADIATION SHIELDING
Protective telescoping shield for solar concentrator
[NASA-CASE-NPO-16236-1] 15 p2361 N84-25164

SOLAR RADIO BURSTS
Radio emission from solar and stellar coronae
02 p0308 N84-12023
Radio evidence for interplanetary streamers in the range 10-170 solar radii 03 p0471 N84-13103
High power, very broadband microwave radiation from the interaction of a relativistic electron beam with plasmas in the low magnetic field regime, with application to the type 3 solar burst phenomenon
05 p0665 N84-14371
Very Large Array observations of solar active regions. 4: Structure and evolution of radio bursts from 20 cm loops
[AD-A133907] 06 p0940 N84-16109
The simplest solar microbursts flux and circular polarization at 22 GHz
[INPE-2970-PRE/436] 07 p1092 N84-17104
The ISPM solar-flare X-ray and cosmic gamma-ray burst experiment 09 p1262 N84-18238
A homologous microwave flare on May 29, 1980
09 p1413 N84-19246
Solar-geophysical data number 468, August 1983. Part 2. (Comprehensive reports). Data for February 1983 and miscellanea
[PB84-116581] 09 p1417 N84-19271
Solar-geophysical data number 469, September 1983, part 2 (comprehensive reports). Data for March 1983 and miscellanea
[PB84-125821] 09 p1417 N84-19274
Solar-geophysical data no. 470, October 1983. Part 2: (Comprehensive reports). Data for April 1983, December 1980, January 1981 and miscellanea
[PB84-140367] 11 p1760 N84-21483
Solar-Geophysical Data number 471, November 1983. Part 2: Comprehensive reports. Data for May 1983 and miscellanea
[PB84-157007] 14 p2252 N84-24524
Brazil national report on radio astronomy (1981 - 1984)
[INPE-3052-PRE/473] 16 p2573 N84-26516
Acceleration and confinement of energetic particles in the 7 June 1980 solar flare
[NASA-CR-173545] 16 p2580 N84-26550
Fundamental and harmonic emission in interplanetary type 2 radio bursts
[NASA-TM-86099] 20 p3320 N84-31079
Solar-Geophysical Data, no. 475, March 1984. Part 2: Comprehensive reports. Data for September 1983, May 1981 and miscellanea
[PB84-201516] 22 p3680 N84-33330

SOLAR RADIO EMISSION
NT SOLAR RADIO BURSTS
Solar-geophysical data number 465, May 1983. Part 2: (Comprehensive reports). Data for November 1982, October 1980 and miscellanea
[PB83-228551] 01 p0165 N84-11081
Solar-geophysical data, number 463, March 1983. Part 2: (Comprehensive reports). Data for September 1982, September 1980 and miscellanea. Explanation of data reports issued as number 462 (supplement) February 1983
[PB83-216317] 01 p0166 N84-11090
Solar-geophysical data number 464, April 1983. Part 1: Prompt report. Data for March 1983, February 1983 and late data. Explanation of data reports issued as number 462 (supplement) February 1983
[PB83-222489] 01 p0166 N84-11091
Solar-Geophysical Data number 465, May 1983. Part 1: Prompt reports. Data for April and March 1983, and late data
[PB83-228544] 02 p0305 N84-12005
Solar-geophysical data number 464, April 1983. Part 2: (Comprehensive reports). Data for October 1982 and Miscellanea
[PB83-222497] 02 p0306 N84-12022
Solar-geophysical data comprehensive reports, no. 466. Data for December 1982 and miscellanea. Explanation of data reports issued as number 462 (supplement), part 2
[PB83-253443] 05 p0765 N84-15018
The circularly polarized sun at 12.6 cm wavelength
[AD-A133668] 06 p0940 N84-16110
Three dimensional structure and time development of radio emission from solar active regions
[AD-A126640] 07 p1093 N84-17110
Solar-geophysical data number 467, July 1983, part 2 (comprehensive reports). Data for January 1983, November 1980 and miscellanea
[PB84-100494] 08 p1246 N84-18145
Measurements of the solar 160 min oscillation at the Metsaehovi radio research station in 1080-1982 and comparison with the results at the Crimean Astrophysical Observatory
[REPT-S-138] 09 p1416 N84-19268
Improved computer programs for microwave Sun observation at the Metsaehovi radio research station
[REPT-S-140] 09 p1417 N84-19269
A catalog of solar white-light flares, including their statistical properties and associated emissions, 1859 - 1982
[AD-A136645] 14 p2251 N84-24521
Thermal and nonthermal phenomena in solar flare loops at 20 cm wavelength and in X-rays
[NASA-CR-173429] 14 p2252 N84-24522
Solar-Geophysical Data number 471, November 1983. Part 1: (Prompt reports). Data for October 1983, September 1983 and late data
[PB84-156991] 14 p2252 N84-24523
Solar-geophysical data prompt reports, February 1984, number 474. Part 1: Data for January 1984, December 1983 and late data. Explanation of data reports issued as number 474 (supplement) February 1984
[PB84-188689] 20 p3320 N84-31076
Solar-geophysical data comprehensive reports, February 1984, number 474. Part 2: Data for August 1983, April 1981 and miscellanea. Explanation of data reports issued as number 474 (supplement) February 1984
[PB84-188671] 20 p3320 N84-31077
Solar-geophysical data explanation of reports, February 1984, number 474, supplement
[PB84-188697] 20 p3320 N84-31078
Solar-Geophysical Data, no. 475, March 1984. Part 1: Prompt reports. Data for September 1983, May 1981
[PB84-201508] 22 p3680 N84-33329

SOLAR RADIO WAVES
U SOLAR RADIO EMISSION
SOLAR RECEIVERS
U SOLAR COLLECTORS
SOLAR REFLECTORS
Polymer degradation on reflecting metal films: Fourier transform infrared (FTIR) reflection-absorbance studies
[DE83-012129] 03 p0404 N84-12641
Development of a portable specular reflectometer for monitoring solar-mirror materials
[DE83-016065] 03 p0442 N84-12901
Baffle system employing reflective surfaces
[NASA-TM-84406] 04 p0604 N84-13985
Eight years of in orbit experience with the HELIOS solar probe thermal control subsystem
10 p1446 N84-19445
OTS 2: Five years of thermal testing on a satellite in a geostationary orbit 10 p1446 N84-19446
Degradation of evaporated aluminum films for solar reflectors
[DE84-005341] 10 p1530 N84-20021
JPL tests of a LaJet concentrator facet
[NASA-CR-173470] 12 p1841 N84-22004
Technical and cost benefits of lightweight, stretched-membrane heliostats
[DE83-009408] 16 p2513 N84-26124
A photovoltaic concentrator for 500 Wpk using a C50-Si generator and a glass-laminated metal membrane reflector
[BMFT-FB-T-84-050] 16 p2519 N84-26168
Environmental degradation of solar optical materials, volume 2
[DE84-006505] 19 p3051 N84-29362
Pravda cites advantages of project for orbiting solar reflectors 21 p3347 N84-31235
Evolution of integrated panel structural design and interfaces for PV power plants 22 p3584 N84-32701
SOLAR ROTATION
Solar rotation rate determined from millimeter data
09 p1413 N84-19247
Recent ground-based observations of the global properties of the Sun 17 p2779 N84-27644
Temporal variations of solar UV spectral irradiance caused by solar rotation and active region evolution
17 p2780 N84-27650
White light solar corona: An atlas of 1963 K-coronameter synoptic charts
[PB84-184159] 20 p3320 N84-31075
SOLAR SAILS
Orbital motion of a freely coning solar sail
[AD-A136794] 10 p1435 N84-19381
SOLAR SENSORS
Shuttle flight test of an advanced gamma-ray detection system
[AD-A136157] 15 p2337 N84-25030
User's guide for ERB-7 SEFDT. Volume 3: Quality control report for year-2
[NASA-CR-170618] 16 p2581 N84-26552
SOLAR SIMULATORS
Threshold kinetics of a solar-simulator-pumped iodine laser
[NASA-TP-2241] 08 p1163 N84-17575
Developing of practical methods for the determination of the stagnation temperature and the durability of solar collectors
[BMFT-FB-T-83-227] 10 p1530 N84-20024
High speed, low cost, LEO-thermal-cycling facility
19 p3048 N84-29340
SOLAR SPECTRA
Solar magnetic fields study
[AD-A130491] 01 p0166 N84-11088
The modelling of the solar upper photosphere and lower chromosphere based upon ATM data
[NASA-CR-170920] 02 p0308 N84-12021
NIMBUS-7 SBUV (Solar Backscatter Ultraviolet) observations of solar UV spectal irradiance variations caused by solar rotation and active-region evolution for the period November 7, 1978 - October 26, 1979
[PB84-108166] 08 p1188 N84-17743
Effects of systematic errors on the mbing ratios of trace gases obtained from occulation spectra
[NASA-CR-175371] 08 p1231 N84-18046
A study of the magnetic evolution of active regions and its relation to solar flares
[AD-A135085] 09 p1416 N84-19267
A high resolution solar atlas for fluorescence calculations
[NASA-CR-173366] 10 p1597 N84-20465
Advanced photovoltaic experiment (S0014)
15 p2274 N84-24657
Simultaneous retrieval of atmospheric temperatures and ray paths from occultation spectra
[NASA-CR-173649] 17 p2726 N84-27354
Helium 10830 angstrom irradiance: 1975-1983
17 p2779 N84-27648
Modelling solar spectral irradiance variations at ultraviolet wavelengths 17 p2780 N84-27651
Detection of solar gravity mode oscillations
[NASA-CR-173642] 17 p2781 N84-27655
Stratospheric NO and NO2 profiles at sunset from analysis of high-resolution balloon-borne infrared solar absorption spectra obtained at 33 deg N and calculations with a time-dependent photochemical model
[NASA-TM-86285] 20 p3240 N84-30566
Recovery of spectral optical depth and zero-airmass solar spectral irradiance under conditions of temporally varying optical depth 23 p3775 N84-33930
SOLAR SPECTROMETERS
Observational evidence for solar wind acceleration at the base of coronal holes 03 p0468 N84-13082
Concept study phase A2 for the solar spectrograph PETRA
[BMFT-FB-W-83-014] 07 p1008 N84-16540
SOLAR STORMS
Radio evidence for interplanetary streamers in the range 10-170 solar radii 03 p0471 N84-13103
SOLAR SYSTEM
NT HALLEY'S COMET
Solar system history as recorded in the Saturnian ring structure
[NASA-CR-174477] 02 p0307 N84-12013
Orbital resonances and planetary accretion in the early solar system evolution 02 p0307 N84-12016
Research and technology at the Lyndon B. Johnson Space Center
[NASA-TM-58257] 05 p0758 N84-14973
The 182-Hf: A new short-lived r-process chronometer
[DE83-015696] 05 p0764 N84-15009
High-temperature direct absorption research
[DE84-000019] 07 p1003 N84-16505
Hf-182: A new stopwatch for the early solar system
[DE83-011486] 07 p1090 N84-17088
Spaceborne Gravity Gradiometers. Part 2: Role of gravity gradiometers in NASA's programs
09 p1335 N84-18718
Primitive meteorites: Where do they come from and how do they form? 11 p1755 N84-21458
Formation of chondrules by drag heating in dust-enriched environments 11 p1756 N84-21463
Galactic explosions, cosmic dust invasions, and climatic change 11 p1757 N84-21469
Activities report of the Institute for Extraterrestrial Physics 13 p2069 N84-23407
Reports of planetary geology program, 1983
[NASA-TM-86246] 13 p2073 N84-23431
Evolution of the Uranus-Neptune planetesimal swarm: Consequences for the Earth 13 p2074 N84-23445
Does saturation cratering exist in the solar system?
13 p2078 N84-23467
Magnetospheric research and the history of the solar system
[TRITA-EPP-84-04] 18 p2952 N84-28713
Evidence for long period Alfven waves in the inner solar system
[IFSI-84-9] 18 p2953 N84-28719
The Motion of Planets and Natural and Artificial Satellites, volume 2 19 p3117 N84-29606
On the two-body problem with variable masses
19 p3117 N84-29606
Formal solutions in a double resonant problem
19 p3118 N84-29613
Minor planet observations and a dynamical reference system 19 p3120 N84-29628
Orbital evolution of the Galilean satellites: The conservative model 19 p3120 N84-29630
A bibliography of planetary geology principal investigators and their associates, 1982 - 1983
[NASA-TM-86249] 19 p3121 N84-29640
Galactic cycles and their relationship to life on Earth
[DE84-011737] 21 p3525 N84-32329
Viking radio science data analysis and synthesis --- rotation of Mars, solar system dynamics, and gravitational laws
[NASA-CR-173966] 23 p3843 N84-34385
SOLAR TEMPERATURE
Simultaneous retrieval of atmospheric temperatures and ray paths from occultation spectra
[NASA-CR-173649] 17 p2726 N84-27354
Observations and analysis of solar flares using H Alpha spectral profiles 21 p3526 N84-32335
SOLAR TERRESTRIAL INTERACTIONS
Fourth outer space program of the German Federal Republic
[ISBN-3-88135-111-6] 01 p0017 N84-10110
Possible sources of irregular geomagnetic variations
17 p2704 N84-27223
Ionospheric effect of partial solar eclipse of 31 July 1981 17 p2704 N84-27224
Physical nature of geomagnetic microbays
17 p2706 N84-27232
Solar Irradiance Variations on Active Region Time Scales
[NASA-CP-2310] 17 p2778 N84-27635
The solar constant, climate, and some tests of the storage hypothesis 17 p2780 N84-27649
Solar tides in the mesospheric sodium layer
[INPE-2942-TDL/151] 22 p3622 N84-32953
Solar-terrestrial data access distribution and archiving
[NASA-CR-173906] 22 p3675 N84-33295
Introduction to atmospheric geophysics
[INPE-3169-PRE/539] 23 p3797 N84-34079
Solar Terrestrial Physics: Present and Future
[NASA-RP-1120] 23 p3836 N84-34332
Coupling of the solar wind to the magnetosphere
23 p3837 N84-34337
Impact of flares on the solar terrestrial environment
23 p3837 N84-34341
Collisionless shock waves in the solar terrestrial environment 23 p3837 N84-34342
High latitude ionospheric structure
23 p3837 N84-34344
Ground-based observations of equatorial thermosphere dynamics with a Fabry-Perot interferometer
[NASA-CR-174005] 24 p3933 N84-34697
SOLAR THERMAL ELECTRIC POWER PLANTS
Solar parabolic technology evaluation
[NASA-CR-173203] 07 p1025 N84-16644
Kuwait, phase 3/stage 1: Application and test program for the Sulaibyah food/water/power system
[BMFT-FB-T-84-024] 16 p2476 N84-25876
Technical and cost benefits of lightweight, stretched-membrane heliostats
[DE83-009408] 16 p2513 N84-26124
Space power technology into the 21st Century
[NASA-TM-83690] 17 p2616 N84-26748
Solar parabolic dish technology evaluation report
[NASA-CR-173725] 18 p2870 N84-28217
The kinematic Stirling engine as an energy conversion subsystem for parabolodial dish solar thermal plants
[NASA-CR-173724] 18 p2870 N84-28218
Solar Total Energy Project (STEP) performance analysis of high temperature energy storage subsystem
18 p2874 N84-28249
Operational experience from solar thermal energy projects 18 p2874 N84-28251
Solar thermal parabolic dish systems: Technology and applications
[DE84-012239] 21 p3435 N84-31792
SOLAR THERMAL PROPULSION
Solar thermal technology evaluation, fiscal year 1982. Volume 1: Executive summary
[NASA-CR-173190] 07 p1025 N84-16640
Solar thermal technology evaluation, fiscal year 1982. Volume 2: Technical
[NASA-CR-173191] 07 p1025 N84-16641
Publications of the JPL Solar Thermal Power Systems Project, 1976 to 1983
[NASA-CR-173464] 12 p1842 N84-22011
AFRPL solar-thermal rocket activities
20 p3140 N84-29938
Solar thermal propulsion: An investigation of solar radiation absorption in a working fluid
[AD-A144294] 24 p3917 N84-34797
SOLAR TOTAL ENERGY SYSTEMS
Proceedings of the Fifth Parabolic Dish Solar Thermal Power Program
[NASA-CR-173745] 18 p2871 N84-28224
SOLAR VELOCITY
Detection of solar gravity mode oscillations
[NASA-CR-173642] 17 p2781 N84-27655
SOLAR WIND
Solar wind energy transfer to the terrestrial magnetosphere by magnetic junction in the magnetopause
[INPE-2848-RPE/439] 02 p0247 N84-11617
Radial variations of large-scale magnetohydrodynamic fluctuations in the solar wind
[NASA-TM-85116] 03 p0463 N84-13045
Interpretation of 3He variations in the solar wind
[NASA-TM-85049] 03 p0466 N84-13065
Solar Wind Five
[NASA-CP-2260] 03 p0466 N84-13067
Coronal heating by waves 03 p0466 N84-13068
HRTS observations of the fine structure and dynamics of the solar chromosphere and transition zone
03 p0466 N84-13070
Spectroscopic measurements of solar wind generation
03 p0466 N84-13071
Magnetohydrodynamic turbulence in the solar wind
03 p0467 N84-13073
Alfven solitons in the solar wind
03 p0467 N84-13075
Theory of hydromagnetic turbulence
03 p0467 N84-13077
Observational constraints on solar wind acceleration mechanisms 03 p0467 N84-13078

Role of thermal conduction in the acceleration of the solar wind 03 p0467 N84-13079
The collapse of the local, Spitzer-Haerm formulation and a global-local generalization for heat flow in an inhomogeneous, fully ionized plasma 03 p0468 N84-13080
Observational evidence for solar wind acceleration at the base of coronal holes 03 p0468 N84-13082
Solar cycle variations of the solar wind 03 p0469 N84-13089
Solar cycle evolution of the solar wind in three dimensions 03 p0469 N84-13090
Solar cycle variations in the interplanetary magnetic field 03 p0469 N84-13091
Solar wind variations in the 60-100 year period range: A review 03 p0469 N84-13092
Radial evolution of ion distribution functions 03 p0470 N84-13094
Electrostatic waves and anomalous transport in the solar wind 03 p0470 N84-13095
Measurement of macroscopic plasma parameters with a radio experiment: Interpretation of the quasi-thermal noise spectrum observed in the solar wind 03 p0470 N84-13096
Interplanetary scintillation observations of the solar wind close to the Sun and out of the ecliptic 03 p0471 N84-13102
Solar wind disturbances in th outer heliosphere caused by successive solar flares from the same active region 03 p0472 N84-13104
The average solar wind in the inner heliosphere: Structures and slow variations 03 p0472 N84-13105
The radial evolution of the solar wind, 1-10 AU 03 p0472 N84-13106
Spatial dependences in the distant solar wind: Pioneers 10 and 11 03 p0472 N84-13107
Solar wind minor ions: Recent observations 03 p0472 N84-13110
The relative abundance of 3He(++) in the solar wind 03 p0473 N84-13111
Iron charge states observed in the solar wind 03 p0473 N84-13112
Spatial variation of iron abundance in the high speed solar wind, 1972 to 1976 03 p0473 N84-13113
Mixed solar wind originating from coronal regions of different temperatures 03 p0473 N84-13114
Interpreting the solar wind ionization state 03 p0473 N84-13115
Minor constituents in the solar wind originating from plasma-dust interactions 03 p0474 N84-13116
Acceleration of heavy ions in the solar wind 03 p0474 N84-13118
Quasi-steady solar wind dynamics 03 p0474 N84-13120
Plasma properties of driver gas following interplanetary shocks observed by ISEE-3 03 p0474 N84-13123
Corotating shocks in inner heliosphere 03 p0475 N84-13124
Interaction of the plasma tail of comet Bradfield 1979L on 1980 February 6 with a possibly flare-generated solar-wind disturbance 03 p0475 N84-13126
The behavior of the cosmic ray equatorial anisotropy inside fast solar wind streams ejected by coronal holes [IFSI-82-16] 03 p0475 N84-13130
Active experiments in space — conferences [ESA-SP-195] 05 p0634 N84-14172
The Active Magnetospheric Particle Tracer Explorers (AMPTE) program 05 p0641 N84-14216
Plasma confinement and interaction experiments — Active Magnetospheric Particle Tracers Explorers mission 05 p0641 N84-14218
Communications magnetospheric substorms [AD-A133898] 05 p0703 N84-14611
Activities in interplanetary space physics [IFSI-82-7] 05 p0761 N84-14993
Description of 1982 activities in interplanetary physics [IFSI-83-5] 05 p0761 N84-14994
On the relationship between collisionless shock structure and energetic particle acceleration [NASA-CR-175328] 06 p0910 N84-15909
The harmonic structure of PC 3-4 magnetic pulsations at geosynchronous orbit and its relation to the solar wind 06 p0940 N84-16106
Space research in Switzerland 06 p1107 N84-17200
The potential of ISEE in different plasma environments 06 p1116 N84-17257
The ISPM solar-wind plasma experiment 09 p1261 N84-18231
The ISPM solar-wind ion composition spectrometer 09 p1261 N84-18232
The ISPM energetic panel particle composition experiment 09 p1261 N84-18233
The ISPM cosmic-ray and solar-particle investigation 09 p1262 N84-18236
The IPSM coronal-sounding experiment 09 p1262 N84-18240
Interdisciplinary study of directional discontinuities in the solar wind with ISPM 09 p1263 N84-18242
The plasma sheet boundary layer [AD-A137399] 10 p1537 N84-20069
Plasma sheet behavior during substorms [DE84-003833] 10 p1537 N84-20070
Detection of bump-on-tail reduced electron velocity distributions at the electron foreshock boundary [NASA-TM-86067] 12 p1922 N84-22518
Energetics of the magnetosphere, revised [NASA-TM-86063] 13 p2010 N84-23041
Microtheory of collisionless shock current layers [DE84-007500] 14 p2229 N84-24366
Activities report of the Institute of Extraterrestrial Physics [MPE-181] 15 p2423 N84-25557
Observations of He+ ions in the solar wind [KGI-PREPRINT-064] 15 p2428 N84-25585
Application of a global solar wind/planetary obstacle interaction computational model: Earth, Venus, Mars, Jupiter and Saturn studies [NASA-CR-173531] 16 p2572 N84-26509
Application of a global solar wind/planetary obstacle interaction computational model: Earth, Venus, Mars, Jupiter and Saturn studies 16 p2572 N84-26510
Magnetopause merging site asymmetries 16 p2573 N84-26513
MHD (Magnetohydrodynamic) simulation of a comet magnetosphere [AD-A140208] 16 p2580 N84-26546
Three component solar wind model 16 p2581 N84-26555
The geomagnetosystem: Charged particle trajectories in the geomagnetic tail 16 p2581 N84-26556
Interaction of the plasma tail of comet Bradfield 1979L on 1980 February 6 with a possibly flare-generated solar-wind disturbance [NASA-TM-85617] 17 p2777 N84-27632
Simultaneous observations of PC3 pulsations in the magnetosphere and on the ground: Control by the solar wind [IFSI-83-14] 18 p2953 N84-28717
Alfven wave dissipation in the solar wind [IFSI-84-7] 18 p2953 N84-28718
Evidence for long period Alfven waves in the inner solar system [IFSI-84-9] 18 p2953 N84-28719
Cutoff for solar cosmic rays in Earth's magnetosphere in magnetically quiet periods 19 p2973 N84-28849
Solar-geophysical data prompt reports, February 1984, number 474. Part 1: Data for January 1984, December 1983 and late data. Explanation of data reports issued as number 474 (supplement) February 1984 [PB84-188689] 20 p3320 N84-31076
Solar-geophysical data explanation of reports, February 1984, number 474, supplement [PB84-188697] 20 p3320 N84-31078
A determination of the charge state of energetic magnetospheric ions by the observation of drift echoes [AD-A143181] 22 p3623 N84-32954
Studies of the microscale density fluctuations in the solar wind using interplanetary scintillations 22 p3679 N84-33324
Solar Terrestrial Physics: Present and Future [NASA-RP-1120] 23 p3836 N84-34332
MHD waves and turbulence in the Sun and interplanetary medium 23 p3837 N84-34336
Coupling of the solar wind to the magnetosphere 23 p3837 N84-34337
Coronal transients and their interplanetary effects 23 p3837 N84-34338
Connection between the magnetosphere and ionosphere 23 p3837 N84-34339
Substorms in the magnetosphere 23 p3837 N84-34340
MHD processes in the outer heliosphere [NASA-TM-86137] 23 p3845 N84-34391
Calculations of the amplitude spectrum of the 27-day variations of galactic cosmic rays 24 p3993 N84-35271
About the profile of cosmic ray intensity increase prior to Forbush-decrease 24 p3994 N84-35279

SOLAR WIND VELOCITY

Multiple transonic solutions and a new class of shock transitions in solar and stellar winds 03 p0468 N84-13083
The average solar wind in the inner heliosphere: Structures and slow variations 03 p0472 N84-13105
The radial evolution of the solar wind, 1-10 AU 03 p0472 N84-13106
Interaction of the plasma tail of comet Bradfield 1979L on 1980 February 6 with a possibly flare-generated solar-wind disturbance 03 p0475 N84-13126
Energy transfer by magnetopause reconnection and the substorm parameter epsilon [INPE-2908-PRE/422] 07 p1031 N84-16690

SOLAR X-RAYS

Solar-geophysical data number 465, May 1983. Part 2: (Comprehensive reports). Data for November 1982, October 1980 and miscellanea [PB83-228551] 01 p0165 N84-11081
Solar-geophysical data number 464, April 1983. Part 2: (Comprehensive reports). Data for October 1982 and Miscellanea [PB83-222497] 02 p0308 N84-12022
Solar-geophysical data comprehensive reports, no. 466. Data for December 1982 and miscellanea. Explanation of data reports issued as number 462 (supplement), part 2 [PB83-253443] 05 p0765 N84-15018
The interpretation of hard X-ray polarization measurements in solar flares [NASA-CR-172790] 06 p1246 N84-18142
The ISPM solar-flare X-ray and cosmic gamma-ray burst experiment 09 p1262 N84-18238
Solar-geophysical data number 468, August 1983. Part 2. (Comprehensive reports). Data for February 1983 and miscellanea [PB84-116581] 09 p1417 N84-19271
The impulsive hard X-rays from solar flares [NASA-CR-175431] 11 p1759 N84-21480
A study of coronal precursors of solar flares [AD-A137163] 11 p1759 N84-21482
Field experience with voltage breakdown in photovoltaic (PV) arrays [DE84-005551] 12 p1844 N84-22020
On the rate of energy input in thermal solar flares [AD-A138345] 13 p2092 N84-23548
Energetic electrons in impulsive solar flares [NASA-TM-86102] 14 p2251 N84-24519
A catalog of solar white-light flares, including their statistical properties and associated emissions, 1859 - 1982 [AD-A138645] 14 p2251 N84-24521
Thermal and nonthermal phenomena in solar flare loops at 20 cm wavelength and in X-rays [NASA-CR-173429] 14 p2252 N84-24522
Solar-Geophysical Data number 471, November 1983. Part 2: Comprehensive reports. Data for May 1983 and miscellanea [PB84-157007] 14 p2252 N84-24524
Localization of X-ray bright spots relative to cells in solar chromospheric grid 19 p2974 N84-28854
Solar-geophysical data explanation of reports, February 1984, number 474, supplement [PB84-188697] 20 p3320 N84-31078
Expressions to determine temperatures and emission measures for solar X-ray events from GOES measurements [NASA-TM-86142] 22 p3679 N84-33325
A new class of solar burst with MM-wave emission but only at the highest frequency (90 GHz) [NASA-TM-87369] 24 p3992 N84-35264

SOLAR-PUMPED LASERS

Singlet oxygen generator for a solar powered chemically pumped iodine laser [NASA-CR-172364] 19 p2982 N84-28899
A blackbody-pumped CO2-N2 transfer laser [NASA-TP-2347] 21 p3408 N84-31617

SOLDERED JOINTS

Study of thermal fatique of soldered photovoltaic cells by thermal resistance measurement [DE84-003764] 08 p1181 N84-17692

SOLDERING

Use of plain copper conductors in lieu of tinned-copper for internal cables 11 p1719 N84-21213
An evaluation of permanent solder masks for high reliability applications [AD-A139234] 14 p2134 N84-23787
The NASA welding assessment program 19 p3048 N84-29339
The evaluation and approval of automatic machine wave soldering for ESA spacecraft hardware [ESA-PSS-01-707] 20 p3182 N84-30215
Soldering method for cable connectors [AD-D011103] 22 p3587 N84-32718
Corrosion resistant glass coating for metals 23 p3706 N84-33495

SOLENOIDS

Design conditions for fail safe quenching of a high current density superconducting solenoid with a shorted secondary circuit [LBL-14859] 01 p0069 N84-10449
The MSAD actuator solenoid, performance evaluation and modification [DE83-011216] 01 p0074 N84-10483

Performance measurements of a pilot superconducting solenoid model core for a wind tunnel magnetic suspension and balance system
[NASA-CR-172243] 03 p0338 N84-12192
The 12-T solenoid-design options for the MFTF-B upgrade
[DE83-016646] 03 p0430 N84-12817
Cryogenic testing of the TPC superconducting solenoid
[DE84-000528] 04 p0527 N84-13467
Concerning the possibility of employing superconducting systems for analyzing the composition of cosmic rays
[AD-A133792] 05 p0765 N84-15021
Compact Claude cycle refrigerator for laboratory use
06 p0619 N84-15338
Application of induction coil measurements to the study of superalloy hot corrosion and oxidation
[NASA-TM-83560] 07 p0974 N84-16311
Ultra-high-field superconducting magnets
[DE84-003913] 08 p1226 N84-18012
Discharging a superconducting store into an inverting converter
[AD-A135577] 09 p1341 N84-18761
Magnetic suspension and balance system study
[NASA-CR-3802] 20 p3132 N84-29688
Electron motion in solenoidal magnetic fields using a first order symplectric integration algorithm
[DE84-011341] 20 p3293 N84-30910

SOLID ARGON
U SOLIDIFIED GASES

SOLID ELECTRODES
Additive for zinc electrodes — electric automobiles
[NASA-CASE-LEW-13286-1] 05 p0673 N84-14422
Electrochemistry at the molecular level
[AD-A140070] 15 p2287 N84-24723
Zinc selenide photoelectrodes. Efficient radiative recombination in a stable photoelectrochemical cell
[AD-A141869] 19 p3051 N84-29360

SOLID ELECTROLYTES
The sodium sulfur battery system: Investigation of the solid electrolyte beta alumina
[BMFT-FB-T-83-123] 02 p0216 N84-11416
Solid-oxide fuel-cell performance
[DE83-017926] 03 p0368 N84-12396
Defect interactions at high concentrations in solid oxide electrolytes
[DE83-016849] 03 p0455 N84-12992
Solid-oxide fuel cells
[DE83-017925] 04 p0527 N84-13469
Electrically controlled coloration of materials
[AD-A133420] 06 p0801 N84-15223
Chloride ion conductivity in a plasticized quaternary ammonium polymer
[AD-A135373] 08 p1124 N84-17305
Ionic conductivity of Li7BiO6
[AD-A135386] 08 p1124 N84-17307
Solid electrolyte degradation: Problems and solutions
[DE84-002916] 10 p1457 N84-19514
Particle scattering studies on foreign ions in superionic conductors
[AD-A137231] 10 p1588 N84-20406
Proceedings of the Conference on High Temperature Solid Oxide electrolytes. Volume 1: Anion conductors
[BNL-51728-VOL-1] 11 p1738 N84-21342
Cell performance and life characteristics of solid oxide electrolyte fuel cells 11 p1739 N84-21343
High temperature oxide electrolytes for the splitting of water. The ROC process 11 p1740 N84-21351
High temperature solid oxide electrolytes for research in metallurgical processes and steelmaking
11 p1740 N84-21352
Mechanisms of catalytic oxidation of hydrocarbons in a solid-electrolyte fuel cell 11 p1742 N84-21366
Proceedings of the Conference on High Temperature Solid Oxide Electrolytes. Volume 2: Cation conductors
[BNL-51728-VOL-2] 11 p1742 N84-21368
Moderate temperature rechargeable NaNiS2 cells
11 p1744 N84-21376
Synthesis of Co2+ and Ni2+ stabilized beta alumina
11 p1744 N84-21378
Ionic conductivity in lithium hexaoxometallate solid solutions 11 p1744 N84-21379
The photoelectrochemistry of conducting polymers
[DE84-010689] 20 p3164 N84-30093
Steam reforming of fuel to hydrogen in fuel cell
[DE84-011115] 20 p3181 N84-30205
Electrolytic degradation of lithia-stabilized polycrystalline beta-alumina
[DE84-008668] 20 p3311 N84-31027
A combined thermodynamic study of nickel-base alloys
[DE84-013467] 21 p3368 N84-31368
Technology base research project for electrochemical energy storage
[DE84-012248] 21 p3393 N84-31535
Technology Base Research Project for Electrochemical Energy Storage
[DE84-013877] 22 p3619 N84-32930
Nuclear magnetic resonance studies of ion motion in solid electrolytes
[DE84-013846] 22 p3665 N84-33238
Method of fabricating a monolithic core for a solid oxide fuel cell
[DE84-014665] 23 p3743 N84-33727
Solid oxide fuel cell having monolithic core
[DE84-014659] 23 p3743 N84-33728
Fuel cell stack with internal manifolds for reactant gases
[DE84-014662] 23 p3743 N84-33729
Solid oxide fuel cell having compound cross flow gas patterns
[DE84-014666] 23 p3743 N84-33730
Integral manifolding structure for fuel cell core having parallel gas flow
[DE84-014664] 23 p3744 N84-33731
Solid state batteries, literature survey, analysis of pertinent results and prospective for further research
[AD-A144252] 24 p3897 N84-34679

SOLID LUBRICANTS
Aircraft water-based solid film lubricants
[AD-A133732] 05 p0658 N84-14328
Moisture resistant MoS2-based composite lubricant films 09 p1296 N84-18468
Durable solid lubricant coatings for foil gas bearings to 315 deg C
[NASA-TM-83596] 10 p1465 N84-19567
Applying robotic technology to the solid film lubricant burnishing operation
[DE84-007113] 12 p1823 N84-21885
Low wear partially fluorinated polyimides
[NASA-TM-83629] 15 p2301 N84-24808
Tribology in the 80's. Volume 2: Sessions 5 - 8
[NASA-CP-2300-VOL-2] 15 p2340 N84-25047
Status and new directions for solid lubricant coatings and composite materials 15 p2341 N84-25055
Practical applications and uses of solid lubricant films
15 p2342 N84-25056
Support of oil lubrication by bonded coatings
15 p2342 N84-25057
Status of plasma physics techniques for the deposition of tribological coatings 15 p2342 N84-25058
Solid lubrication design methodology
[NASA-CR-174690] 22 p3677 N84-33309

SOLID PHASES
Properties of 3-dimensional energetic solids and molecular crystals
[AD-A137927] 11 p1744 N84-21382
Theoretical and experimental study of solid phase miscibility gaps in 3/4 quaternary alloys
[DE84-004391] 12 p1915 N84-22478
Effect of non-constant solid phase thermal properties on temperature sensitivity of solid propellant
13 p1946 N84-22654
Liquid-vapor and solid-liquid-vapor phase equilibria in natural gas systems
[PB84-179191] 16 p2474 N84-25860
Developing new materials at elevated temperatures and pressures
[AD-A141235] 18 p2940 N84-28650
Spin-polarized triplet helium
[NASA-CR-173787] 19 p2987 N84-28929
Liquid and solid phase compositions in a partially frozen JP-5 fuel low in n-alkanes
[AD-A143390] 22 p3561 N84-32553
Elastic properties of textured sheets of two-phase titanium alloys 23 p3706 N84-33505
Texture effect on anisotropy of electric and magnetic properties of titanium alpha-alloys
23 p3706 N84-33506
Electron microscope study of processes of polygonization and recrystallization in alpha-phase of two-phase (alpha + beta)-titanium alloys with plate structure 23 p3706 N84-33507
Plasticity of large-grain titanium alloy type VT30 in the beta area 23 p3706 N84-33508

SOLID PROPELLANT COMBUSTION
NT SOLID PROPELLANT IGNITION
Modeled heating and surface erosion comparing motile (gas borne) and stationary (surface coating inert particle additives
[DE83-000597] 01 p0080 N84-10521
Transient combustion: Models versus ONERA data
[AD-A131151] 02 p0203 N84-11323
Combustion modeling of composite solid propellants
03 p0351 N84-12285
Catalysis of nitramine propellants by mmtal borohydrides
[AD-A133215] 06 p0612 N84-15285
Radiative heat transfer, Favre-averaging and turbulence closure models for combustion applications
[VTH-LR-383] 10 p1496 N84-19780
Solid fuel combustion chamber
[VTH-LR-392] 12 p1803 N84-21756
An optical surface tracking device which determines a solid propellant's burning rate 13 p1944 N84-22638
Measurement of solid propellant burning rates employing microwave techniques 13 p1944 N84-22640
An investigation of experimental techniques for obtaining particulate behavior in metallized solid propellant combustion 13 p1947 N84-22659
Conditions for inflammation of accumulated aluminum in the propellant combustion zone
13 p1947 N84-22660
Combustion of high-aluminum-content propellants
13 p1947 N84-22661
Continuum modeling of stick charge combustion
13 p1947 N84-22662
Multi-dimensional, multiphase flow analysis of flamespreading in a stick propellant charge
13 p1948 N84-22663
Slotted stick propellant study
13 p1948 N84-22664
Closed vessel combustion studies of stick propellant
13 p1948 N84-22665
Flash X-ray with image enhancement applied to combustion events 13 p1948 N84-22666
closed bomb combustion simulation of Hivelite solid propellant 13 p1948 N84-22667
Kinetics of the Beta + Delta phase transformation of HMX 13 p1951 N84-22661
CARS studies of nitramine LOVA propellant combustion 13 p1951 N84-22683
Combustion thermodynamics of some boron-nitrogen-hydrogen compounds
13 p1951 N84-22684
Three-dimensional, primitive-variable model for solid-fuel ramjet combustion
[AD-A136756] 13 p1956 N84-22715
Combustion of ammonium perchlorate-polymer sandwiches
[AD-A139873] 15 p2302 N84-24814
Holographic investigation of solid propellant combustion particles
[AD-A140168] 16 p2496 N84-26016
An investigation of experimental techniques for obtaining particulate behavior in metallized solid propellant combustion
[AD-A141044] 18 p2908 N84-27826
Thixotropic flame inhibitors for rocket propellant grains
[AD-D011081] 21 p3373 N84-31408
Nonlinear burning stability of solid propellants
[AD-A143573] 22 p3582 N84-32554
T-motor tests with cylindrical grains
[AD-A143814] 24 p3866 N84-34503

SOLID PROPELLANT IGNITION
Development of space shuttle ignition overpressure environment and correlation with flight data
01 p0020 N84-10127
Shock tube study of the ignition and combustion of aluminum
[AD-A134035] 05 p0661 N84-14345
Conditions for inflammation of accumulated aluminum in the propellant combustion zone
13 p1947 N84-22660
Nitramine propellant ignition under rapid gas loading conditions 13 p1950 N84-22677
Ignitibility studies of LOVA propellants — low vulnerability gun propellants 13 p1950 N84-22678
Nitramine propellant crack tip ignition and crack propagation of a burning sample under rapid pressurization
[AD-A141246] 18 p2811 N84-27848
A NDT ignition delay predictive tool
20 p3143 N84-29958

SOLID PROPELLANT ROCKET ENGINES
NT APOGEE BOOST MOTORS
NT P-1 ENGINE
Development of space shuttle ignition overpressure environment and correlation with flight data
01 p0020 N84-10127
Summary of the inaugural meeting of the Chinese Society of Astronautics Special Committee for Solid Rocket Propulsion and its first academic conference
[AD-A129342] 02 p0183 N84-11190
Dynamic analysis of spacecraft trajectory and attitude in an orbital insertion
[INPE-2845-TDL/142] 02 p0185 N84-11203
Vernier Rocket Motor Mk 84 Mod 0 quality evaluation
[AD-A133301] 06 p0796 N84-15185
Dynamic certification of a thrust-measuring system for large solid rocket motors 06 p0860 N84-15603
The SRB nozzle erosion related flow analysis
[NASA-CR-170961] 07 p0965 N84-16251
An analysis of the buckling of truncated or complete spherical shells under axial compressive loads
07 p0985 N84-16379

Inertial Upper Stage (IUS) Solid Rocket Motor (SRM) core flow sampling at high altitudes
[AD-A134997] 08 p1121 N84-17288
Investigation of free jets issued from small solid propellant rocket engines 08 p1121 N84-17290
Collision widths of CO lines broadened by water vapor at elevated temperatures
[AD-A136121] 09 p1323 N84-18644
Turbulence generated pressure fluctuations in a class of interior flows 10 p1423 N84-19306
AFRPL (Air Force Rocket Propulsion Laboratory) technical objective document FY 1985
[AD-A137856] 11 p1626 N84-20641
A calculation of descent segment of internal ballistics in solid rocket motors
[AD-A137199] 11 p1626 N84-20642
Insitu measurement of burning rate 13 p1944 N84-22639
Computerized static firing analysis techniques of solid propellant rocket motors 13 p1944 N84-22641
Rocket motor aeroacoustics 13 p1944 N84-22642
Coupling between velocity oscillations and solid propellant combustion 13 p1944 N84-22643
Fluid-dynamically coupled solid propellant combustion instability - cold flow simulation 13 p1945 N84-22644
On the oscillatory flowfield in solid rocket motors 13 p1945 N84-22645
Effect of oscillations upon velocity distributions in simulated solid propellant flow environments 13 p1945 N84-22646
Three-dimensional vorticity procedure interactions in combustion instability analysis of solid propellant rocket motors 13 p1945 N84-22647
Generation of vehicle wobbling by the unsteady flow field in a spinning solid propellant rocket motor 13 p1945 N84-22648
Direct measurement of high frequency solid propellant response functions 13 p1945 N84-22649
Analysis of acoustic chamber pressure oscillations in shuttle high-pressure SRB's 13 p1946 N84-22651
A study on the prediction of the starting transient process of solid propellant rocket motors
[AD-A139453] 14 p2118 N84-23692
Surveillance report. Stage I dissected motors. Phase XIV. Propellant and component testing
[AD-A139201] 14 p2132 N84-23777
An acoustical imaging system for the inspection of solid rocket motors
[AD-A139482] 14 p2156 N84-23918
Space aging of solid rocket materials (P0005) 15 p2275 N84-24659
LGM-30B, stage 2 dissected motor test report
[AD-A140337] 16 p2460 N84-25765
Flow pattern in an indoor rocket test stand during static firing of solid propellant rocket motors
[PML-1983-40] 17 p2614 N84-26731
Safety in the handling of rocket motors
[INPE-3033-NTE/214] 17 p2616 N84-26745
Space Shuttle with rail system and aft thrust structure securing solid rocket boosters to external tank
[NASA-CASE-MFS-25853-1] 18 p2802 N84-27784
Stress transducer interpretation analysis and stability data 20 p3143 N84-29957
Low cost manufacturing of tactical rocket motors 20 p3143 N84-29959
Testing and evaluation of Vespel up to 450 deg F when used in nuts and bolts as a self-locking element
[NASA-TM-86456] 21 p3412 N84-31639
Acta armamentarii (selected articles)
[AD-A143904] 23 p3726 N84-33610
Analysis of combustion oscillations in heterogeneous systems
[AD-A144436] 24 p3880 N84-34583

SOLID PROPELLANTS
NT COMPOSITE PROPELLANTS
NT DOUBLE BASE ROCKET PROPELLANTS
NT HTPB PROPELLANTS
NT METAL PROPELLANTS
NT NITRAMINE PROPELLANTS
NT PLASTIC PROPELLANTS
NT SOLID ROCKET PROPELLANTS
Solid rocket booster thrust vector control subsystem description
[NASA-TM-82546] 01 p0029 N84-10183
Statistical crack mechanics
[DE83-014124] 01 p0098 N84-10637
Behavior of aluminum on the burning surface of a solid propellant 05 p0662 N84-14351
Combustion instability: Measurement of acoustic admittance in solid propellant
[INPE-2789-NTE/201] 07 p0980 N84-16352
A parametric study of ramrocket performance
[ARL-MECH-ENG-NOTE-395] 11 p1625 N84-20633
Thermal stability of diethylene glycol dinitrate (DEGN) propellant
[PML-1983-22] 12 p1803 N84-21752
Effect of non-constant solid phase thermal properties on temperature sensitivity of solid propellant 13 p1946 N84-22654
Continuum modeling of stick charge combustion 13 p1947 N84-22662
Multi-dimensional, multiphase flow analysis of flamespreading in a stick propellant charge 13 p1948 N84-22663
Slotted stick propellant study 13 p1948 N84-22664
Closed vessel combustion studies of stick propellant 13 p1948 N84-22665
closed bomb combustion simulation of Hivelite solid propellant 13 p1948 N84-22667
Heterogeneous diffusion flame stabilization: Constant density results 13 p1952 N84-22689
Sensitivity analysis of predicted reacting flow characteristics in solid fuel ramjet combustors
[AD-A141279] 18 p2796 N84-27740
Nonlinear structural characterization of solid propellants 20 p3142 N84-29951
Kevlar-49/epoxy case skirt structural fatigue strength 20 p3143 N84-29955
Synthesis of diazidodiesters 20 p3143 N84-29956
Development, test and delivery of solid propellant generators for inflation of PFD's
[AD-A130477] 21 p3460 N84-31946
A study of the burning of a solid fuel surface in partial enclosures 23 p3712 N84-33532

SOLID ROCKET BINDERS
Dependence of burning rate of AP-polymer sandwiches on thickness of the binder laminae 13 p1946 N84-22653
Modeling effects of composition on the burn rates of nitrate ester-based energetic binders 13 p1951 N84-22685
Stage I propellant surveillance report glacial acrylic acid motors GAA-001 and GAA-002 TP-H1011
[AD-A141099] 19 p3001 N84-29020
Durability of adhesive bonds with ionic bonds at the interface — propellant binder adhesion 20 p3144 N84-29960
Interfacial interaction and adhesion in composite materials 20 p3144 N84-29961
High energy binders
[AD-A142347] 20 p3166 N84-30105
Laser Induced Chemistry. 1984 JPM Specialist Session
[AD-A142922] 21 p3372 N84-31400
Laser induced polymerization reactions in solid propellant binders 21 p3373 N84-31403

SOLID ROCKET PROPELLANTS
NT DOUBLE BASE ROCKET PROPELLANTS
NT HTPB PROPELLANTS
NT METAL PROPELLANTS
Propellant nonlinear constitutive theory extension: Preliminary results
[AD-A133364] 06 p0812 N84-15287
JANNAF Performance Standardization Subcommittee 16th Meeting minutes
[CPIA-PUBL-382] 07 p0981 N84-16355
Theoretical treatment of the mechanism of residual thrust
[NAL-TR-777] 09 p1274 N84-18320
AFRPL (Air Force Rocket Propulsion Laboratory) technical objective document FY 1985
[AD-A137856] 11 p1626 N84-20641
Survey of techniques employed in the analysis of rocket motor solid propellants
[ED-80-292] 12 p1782 N84-21630
Computerized static firing analysis techniques of solid propellant rocket motors 13 p1944 N84-22641
Dependence of burning rate of AP-polymer sandwiches on thickness of the binder laminae 13 p1946 N84-22653
Non-steady combustion of composite solid propellants
[AD-A139182] 14 p2132 N84-23776
Space aging of solid rocket materials (P0005) 15 p2275 N84-24659
Solid propellant nonlinear constitutive theory extension
[AD-A139957] 15 p2304 N84-24823
An investigation of experimental techniques for obtaining particulate behavior in metallized solid propellant combustion
[AD-A141044] 18 p2808 N84-27826
Nitramine propellant crack tip ignition and crack propagation of a burning sample under rapid pressurization
[AD-A141246] 18 p2811 N84-27848
Stage I propellant surveillance report glacial acrylic acid motors GAA-001 and GAA-002 TP-H1011
[AD-A141099] 19 p3001 N84-29020
La Recherche Aerospatiale, Bimonthly Bulletin, no. 1984-1, 218/ January - February
[ESA-TT-858] 20 p3125 N84-29850
Nonlinear burning stability of solid propellants
[AD-A143573] 22 p3562 N84-32554
Acta armamentarii (selected articles)
[AD-A143904] 23 p3726 N84-33610
T-motor tests with cylindrical grains
[AD-A143814] 24 p3866 N84-34503
Deflagration to shock to detonation transition of energetic propellants
[AD-A144460] 24 p3890 N84-34632

SOLID ROTATION
U ROTATING BODIES

SOLID SOLUTIONS
Calculation of short-range-order structures in Cu-14.5 percent (atom.) Al
[BLL-M-35115-(5828.4)] 01 p0152 N84-10997
Interaction potentials in substitutional solid solutions
[BLL-M-35132-(5828.4)] 01 p0152 N84-10998
Ionic conductivity in lithium hexaoxometallate solid solutions
[AD-A131842] 03 p0346 N84-12250
Compositional segregation in unidirectionally solidified solid solution crystals 06 p0932 N84-16055
Critical current of the dispersion superconducting phase, obtained during aging
[AD-A136024] 09 p1366 N84-19118
Relation between structure and conductivity in the nasicon solid solution system 11 p1743 N84-21374
Ionic conductivity in lithium hexaoxometallate solid solutions 11 p1744 N84-21379
Fluctuations in chemical composition of titanium alloy Beta-solid solution in preseparation stage 12 p1786 N84-21650
Structural features of polycrystalline ZnSe and solid solutions ZnSa sub I-x S sub x 12 p1788 N84-21659
Solid state phase change materials for thermal energy storage in passive solar heated buildings 16 p2518 N84-26163
Investigation of the structure of photosynthetic reaction centers
[DE84-012475] 20 p3150 N84-30005
The effects of solid solution temperatures and cooling rates on the microstructures of BT3-1 titanium alloy 20 p3160 N84-30066
Multicomponent diffusion under general chemical potential gradients
[DE84-010830] 22 p3548 N84-32458

SOLID STATE
DC-link approach to constant-frequency aircraft power 01 p0011 N84-10068
The 20 GHz spacecraft FET solid state transmitter
[NASA-CR-168240] 08 p1149 N84-17477
Growth and evaluation of AgGaS2 and AgGaSe2 for infrared nonlinear applications
[NASA-CR-175185] 08 p1234 N84-18066
Active reliability engineering, technical concept and program plan. A solid-state systems approach to increased reliability and availability in military systems
[AD-A137541] 11 p1666 N84-20866
AC measurements on fuel cells and fuel cell components 11 p1741 N84-21362
Dynamical threshold behavior of a sliding charge density wave
[DE84-004304] 11 p1745 N84-21389
Critical and strategic materials: Proceedings of the Laboratory Study Group Meeting
[CONF-830474] 12 p1783 N84-21631
Solid state photovoltaic research
[DE84-004494] 18 p2942 N84-28656
Nuclear Magnetic Resonance (NMR) study of glass fiber-epoxy resin composites in the solid state 21 p3358 N84-31299
USSR report: Electronics and electrical engineering
[JPRS-UEE-84-008] 21 p3376 N84-31427
Solid state research
[AD-A142991] 21 p3504 N84-32204
Solid state tetrachloroaluminate storage battery having a transition metal chloride cathode
[AD-D011133] 22 p3618 N84-32924

SOLID STATE DEVICES
NT AVALANCHE DIODES
NT BIPOLAR TRANSISTORS
NT CHARGE COUPLED DEVICES
NT CHARGE TRANSFER DEVICES
NT CMOS
NT FIELD EFFECT TRANSISTORS
NT GALLIUM ARSENIDE LASERS
NT GERMANIUM DIODES
NT HETEROJUNCTION DEVICES
NT HOMOJUNCTIONS
NT JFET
NT JUNCTION DIODES
NT JUNCTION TRANSISTORS
NT LIGHT EMITTING DIODES

NT MBM JUNCTIONS
NT METAL OXIDE SEMICONDUCTORS
NT METAL-NITRIDE-OXIDE-SEMICONDUCTORS
NT MIS (SEMICONDUCTORS)
NT MULTISPECTRAL LINEAR ARRAYS
NT PHOTODIODES
NT PHOTOVOLTAIC CELLS
NT RUBY LASERS
NT SCHOTTKY DIODES
NT SEMICONDUCTOR DEVICES
NT SEMICONDUCTOR LASERS
NT SILICON CONTROLLED RECTIFIERS
NT SILICON TRANSISTORS
NT SOLID STATE LASERS
NT THERMISTORS
NT THYRISTORS
NT TRANSISTOR AMPLIFIERS
NT TRANSISTORS
NT VARACTOR DIODES
NT YAG LASERS
A 500-watt solid-state RF power amplifier AM-7209( )/VRC
[AD-A129327] 01 p0071 N84-10463
Joint services electronics program
[AD-A130985] 02 p0213 N84-11392
Large-area mercuric iodide photodectors
[DE83-013035] 03 p0441 N84-12898
Self-correcting electronically scanned pressure sensor
[NASA-CASE-LAR-12686-1] 05 p0683 N84-14491
Workshop on Solid State Switches for Pulsed Power
[AD-A132687] 05 p0754 N84-14945
Joint services electronics program
[AD-A132992] 05 p0754 N84-14948
The concept of a solid state direct chamber
06 p0912 N84-15924
Optical fiber lightguide sensing for gimbal pickoffs
[AD-A133343] 07 p0950 N84-16161
Solid state research work of the Solid State Division at Lincoln Laboratory
[AD-A134594] 07 p1081 N84-17028
Heterojunction solid-state devices for millimeter-wave sources
[AD-A135389] 08 p1151 N84-17490
State-of-the-art of solid-state motor controllers. Part 4: Failure-rate and failure-mode data
[DE84-001022] 08 p1152 N84-17502
Basic research in electronics (JSEP) Joint Services Electronics Program
[AD-A136290] 09 p1306 N84-18538
Joint services electronics program
[AD-A136058] 09 p1309 N84-18559
The physics of second breakdown
[AD-A136537] 09 p1395 N84-19109
Advanced aircraft electrical system control technology demonstrator. Phase 1: Requirements analysis & preliminary design. Phase 2: Detailed design
[AD-A136758] 10 p1428 N84-19337
Advances in solid state switchgear technology for large space power systems
[NASA-TM-83652] 13 p1986 N84-22891
The detection of faint space objects using solid state imaging detectors
[AD-A139297] 14 p2250 N84-24513
Solid state research
[AD-A140027] 15 p2413 N84-25488
Investigation of plane phased array of piezoelectric transducers with one-lobe directivity diagram
17 p2639 N84-26883
Solid state power controller fuse development program
[AD-A142118] 19 p3016 N84-29118
All solid state CCD image sensor
[BMFT-FB-T-84-046] 19 p3113 N84-29778
Solid state compressor
[AD-A142605] 20 p3196 N84-30300
Solid state research
[AD-A142991] 21 p3504 N84-32204
Approximation models for electrodynamic systems in solid state millimetric wave devices
22 p3569 N84-32606
Correlational estimation of parameters of solid state microwave devices 22 p3570 N84-32609
Research pressure instrumentation for NASA Space Shuttle main engine, modification no. 5
[NASA-CR-171128] 22 p3622 N84-32949
Imaging X-ray spectrometer
[NASA-CASE-GSC-12682-1] 23 p3749 N84-33765
Multispectral linear array visible and shortwave infrared sensors 23 p3781 N84-33977
Solid state batteries, literature survey, analysis of pertinent results and prospective for further research
[AD-A144252] 24 p3897 N84-34679
New developments in sensors
[AD-A144367] 24 p3903 N84-34712

SOLID STATE LASERS
NT GALLIUM ARSENIDE LASERS
NT RUBY LASERS
NT YAG LASERS
High energy efficient solid state laser sources — slab geometry laser sources
[NASA-CR-174606] 04 p0539 N84-13548
Infant-mortality testing of high-energy-density capacitors used on Nova
[DE83-018027] 04 p0610 N84-14026
Bibliography of Soviet Laser Developments, number 60, July August 1982
[AD-A133932] 05 p0759 N84-14978
Bibliography of Soviet Laser Developments, no. 62, November - December 1982
[AD-A137854] 11 p1663 N84-20851
Bibliography of Soviet Laser Developments, Number 63, January-February 1983
[AD-A138742] 13 p1995 N84-22948
Polarization switching with J=1/2 to J=1/2 atoms in a ring cavity 14 p2237 N84-24423
XeF pumped Tm:YLF laser scaling
[AD-A140004] 15 p2339 N84-25041
Preparation of mixed perovskite oxides for blue-green lasers
[AD-A142195] 19 p3111 N84-29788

SOLID STATE PHYSICS
Physics with LAMPF 2
[DE83-016338] 07 p1073 N84-16972
The physics of second breakdown
[AD-A136537] 09 p1395 N84-19109
Materials sciences programs, fiscal year 1983
[DOE/ER-0143/1] 19 p2983 N84-28905

SOLID SURFACES
NT CRYSTAL SURFACES
The reciprocal influence of functional groups in substitution reactions on the diamond surface
[CSIR-TRANS-1685] 01 p0152 N84-11000
Study of ion-solid interactions and material characterization with a new high-resolution scanning ion probe
[AD-A133896] 05 p0647 N84-14257
Laser-induced molecular dynamics: Rate processes in the gas phase and at solid surfaces
[AD-A134426] 07 p1072 N84-16962
On the face-shear vibrations of contoured crystal plates 10 p1511 N84-19691
Interaction of atomic oxygen with solid surfaces at orbital altitudes (A0114) 15 p2271 N84-24636
Attractive interaction between an atom and a surface
[DE84-003204] 19 p3103 N84-29712
Fundamental mechanisms of multi-phase flow erosion/corrosion of solid surfaces
[AD-A143041] 21 p3366 N84-31355
The role of material properties in adhesion
[NASA-TM-83792] 24 p3888 N84-34619

SOLID SUSPENSIONS
Phase and compression behavior in sedimentation and thickening of liquid-solid suspensions
[PB83-249664] 04 p0496 N84-13257
Agglomeration in suspension
[WTHD-160] 07 p0973 N84-16305
Rheological study of clay-kaolin aqueous suspensions
[NASA-TM-77363] 14 p2121 N84-23711
Deflocculation of clay suspensions using sodium polyacrylates
[NASA-TM-77432] 14 p2121 N84-23712
Liquid suspensions of reversible metal hybrides
[DE84-014356] 24 p3881 N84-34586

SOLID WASTES
Assessing the credibility of the calorific value of municipal solid waste
[PB84-175470] 16 p2474 N84-25861
Producer gas: Another fuel for motor transport
[DE84-901066] 21 p3375 N84-31416
Workshop on Systems Analysis
[PB84-194661] 22 p3650 N84-33138

SOLID-SOLID INTERFACES
Surface and interfacial properties of Ga(0.47) In(0.53) As alloys
[AD-A131925] 03 p0451 N84-12970
Galvanic coupling between D6AC steel, 6061-T6 aluminum, Inconel 718 and graphite-epoxy composite material: Corrosion occurrence and prevention
[NASA-TP-2236] 04 p0497 N84-13263
Research and development of subsurface acoustic wave device configurations for sensor applications
[AD-A133659] 05 p0742 N84-14877
Studies of silicon refractory metal interfaces: Photoemission study of interface formation and compound nucleation
[AD-A135340] 08 p1131 N84-17358
Tribological applications of surface analysis
[NASA-TM-83707] 16 p2460 N84-25766
Interfacial interaction and adhesion in composite materials 20 p3144 N84-29961
Interfacial reactions of nickel and cobalt thin films on silicon 24 p3959 N84-35064

SOLIDIFICATION
NT MELT SPINNING
Space Processing Applications Rocket (SPAR) project SPAR 7
[NASA-TM-82535] 01 p0018 N84-10112
Dopant incorporation during nonequilibrium solidification
[DE83-014052] 01 p0154 N84-11014
Studies of convection in a solidifying binary mixture at reduced gravity
[NASA-CR-170916] 02 p0190 N84-11231
Materials processing in space program tasks-supplement
[NASA-TM-82548] 03 p0338 N84-12196
Solidification of aluminum and aluminum alloys at high levels of undercooling 03 p0351 N84-12256
Containerless electromagnetic levitation melting of Cu-Fe and Ag-Ni alloys
[NASA-TM-82553] 03 p0352 N84-12288
Characterization of the general purpose research furnace for low-G directional solidification experiments
[NASA-TM-85718] 04 p0489 N84-13211
Formation of structure of low-alloy steel inoculated with rare-earth metals and alkaline-earth metals
[BLL-M-35321] 04 p0497 N84-13258
Structures and properties of rapidly solidified 9Cr-1Mo steel
[DE84-001276] 04 p0499 N84-13276
Irradiation response in titanium-modified austenitic stainless steels prepared by rapid-solidification processing. Part 3. A model for the effect of titanium addition
[DE84-001296] 04 p0500 N84-13281
Modeling binary-alloy solidification processes: Numerical implementation
[DE84-001587] 04 p0501 N84-13284
Segregation and domain structure in rapidly solidified Ni3Al
[DE83-017168] 04 p0504 N84-13306
Solidification rate influence on orientation and mechanical properties of MAR-M-246+Hf
[NASA-TM-82558] 05 p0653 N84-14290
Application of solidification theory to rapid solidification processing
[AD-A134132] 05 p0653 N84-14291
Solidification and phase stability in austenitic stainless steels
[DE84-001937] 05 p0656 N84-14312
Influence of alloying on the properties of nickel in the solid and liquid states
[BLL-M-35284-(5828.4)] 06 p0803 N84-15232
Rapid solidification processing and powder metallurgy of Al alloys
[AD-A133873] 06 p0806 N84-15250
Analytical and numerical solution for a solidifying liquid alloy slab 06 p0927 N84-16025
Determination of systems suitable for study as monotectic binary metallic alloy solidification models
06 p0931 N84-16050
Compositional segregation in unidirectionally solidified solid solution crystals 06 p0932 N84-16055
Critical dynamics for continuous rapid solidification processing
[AD-A134257] 07 p0974 N84-16313
Grain refining and microstructural modification during solidification
[AD-A134605] 07 p0974 N84-16314
Pulsed laser melting: The effect of implanted solutes on the resolidification velocity
[DE84-003252] 07 p1010 N84-16552
Numerical solution of a generalized model of weld pool solidification
[NRC/CNR-TT-2076] 07 p1012 N84-16564
Application of solidification theory to rapid solidification processing
[AD-A135982] 09 p1283 N84-18380
Foreign particles at a solidification front
[BMFT-FB-W-83-031] 10 p1405 N84-19777
A study of the solidification parameters influencing structures and properties in MAR-M246(Hf)
[NASA-TM-82569] 11 p1633 N84-20675
Analysis of microstructure and strengthening mechanisms in laser surface alloyed Fe-Cr and Fe-C-Cr alloy systems
[AD-A137971] 12 p1797 N84-21722
A study of adherent oxide formation
[AD-A139505] 14 p2123 N84-23722
Analysis and calculation of macrosegregation in a casting ingot, exhibits C and E
[NASA-CR-171030] 14 p2127 N84-23752
Application of rapidly solidified superalloys
[AD-A139350] 14 p2127 N84-23755
Metastable phases of rapidly solidified Al-rich, Al-Fe alloys
[AD-A139598] 14 p2128 N84-23757

Rapid solidification research on aluminum alloys at Delft University of Technology — bibliographies
15 p2295 N84-24771
Separation processes during binary monotectic alloy production
[NASA-TM-82579] 15 p2295 N84-24773
Heat flow, fluid flow and solidification phenomena in weld pools 15 p2306 N84-24835
Simulation of heat transfer and fluid flow in the solidification of alloys 15 p2306 N84-24836
Space processing applications rocket project. SPAR 8
[NASA-TM-82578] 16 p2455 N84-25745
Modeling binary alloy solidification processes
[ORNL/CSD-117] 16 p2464 N84-25790
The effect of gravity on the solidification of immiscible alloys — conference
[ESA-SP-219] 17 p2612 N84-26719
Melting and solidification of metallic composites 17 p2613 N84-26726
Filtration theory approach to immiscible alloys solidification 17 p2613 N84-26729
Solidification of Al-Pb alloys under microgravity in Texus-7, preliminary report 17 p2613 N84-26730
Some fundamental aspects of solidification in a supercooled melt
[NASA-TM-83714] 17 p2623 N84-26787
The effect of solidification rate on morphological stability 18 p2936 N84-28620
Models of rapid solidification 18 p2936 N84-28623
Effects of non-equilibrium solidification on the material properties of brick silicon for photovoltaics 18 p2940 N84-28648
A study of the dependence of microsegregation on critical solidification parameters in rapidly-quenched structures
[AD-A142293] 20 p3153 N84-30019
Formation of dispersions of rare earth oxides in titanium alloys using rapid solidification processing
[DE84-008664] 20 p3157 N84-30048
Powder metallurgy of light metal alloys for demanding applications
[AD-A142066] 21 p3366 N84-31352
Rapid solidification and undercooling of aluminum germanium alloys: Characterization and control of microstructure
[DE84-012395] 21 p3367 N84-31361
Influence of direct current on temperature gradient in directionally solidifying ingot of alloy YuNDK35T5
[BLL-M-35684-(5828.4)] 22 p3553 N84-32495
A procedure for determining the tempo at which alloys solidify
[BLL-M-35842-(5828.4)] 22 p3553 N84-32497
Processing and consolidation of rapidly solidified alloys: A technology assessment
[DE84-014673] 22 p3557 N84-32523
Solidification of highly undercooled liquid droplets
[AD-A143892] 23 p3714 N84-33543
Research on phase transformations and non-equilibrium process
[DE84-014376] 23 p3720 N84-33580
Thermal physics of plasma atomization onto fiber materials 24 p3873 N84-34544
Fundamentals of Alloy Solidification Applied to Industrial Processes
[NASA-CP-2337] 24 p3881 N84-34589
Bulk undercooling 24 p3881 N84-34591
The potential for bulk undercooling as an industrial process 24 p3882 N84-34592
Porosity and environment 24 p3882 N84-34593
Solidification study of some Ni- and Co-base alloys 24 p3882 N84-34596
Characterization of macrosegregation in ESR IN-718 24 p3882 N84-34598
Solidification structures grown under induced flow and continuous casting of steel 24 p3883 N84-34599
Investigation of rapidly solidified Ni3Al-based alloys
[AD-A144174] 24 p3883 N84-34604
Sinterable ceramic powders from laser heated gas phase reactions and rapidly solidified ceramic materials
[AD-A144439] 24 p3889 N84-34627

SOLIDIFIED GASES

High pressure properties of solid alpha oxygen
05 p0757 N84-14963
Momentum distributions in hcp, bcc, and liquid He-4
[DE84-014679] 23 p3831 N84-34300

SOLIDS

NT SOLIDIFIED GASES

Apparatus analysis and preliminary design of low gravity porous solids experiment for STS Orbiter mid-deck
[NASA-CR-166246] 01 p0017 N84-10109
The interaction of electromagnetic radiation with solid materials
[AD-A130727] 01 p0066 N84-10429
Microstructural effects on wave propagation in solids
[DE83-012609] 01 p0096 N84-10628
Mechanism switching and trapping of Triplet-Triplet energy transfer in an orientationally disordered molecular solid
[AD-A130660] 01 p0142 N84-10931
A study of plastic flow localization and other instability phenomena in rate-sensitive ductile solids
02 p0230 N84-11510
High-resolution nuclear magnetic resonance in solids (1975-1982)
[DE83-016408] 02 p0291 N84-11910
Mechanical response of fluid-filled poroelastic solids
03 p0387 N84-12525
Physics of ion implantation: Ion-cascade processes and physical state of the implanted solid
[DE83-017152] 03 p0455 N84-12998
Hydraulic hoisting and backfilling
[CSIR-ME-452] 04 p0532 N84-13498
Use of numerical heat-transfer techniques to analyze thermal-comparator conductivity measurements
[DE84-000945] 04 p0535 N84-13515
Shock induced molecular excitation in solids
[AD-A132236] 04 p0596 N84-13935
Solid-State Division
[DE84-000296] 04 p0613 N84-14045
Prediction of high-pressure phase transitions in solid N2 and the pressure dependence of the intramolecular vibrational frequencies
[DE83-015260] 04 p0615 N84-14057
A microscopic analysis of brittle fracture in deformable solids 05 p0691 N84-14537
Report and recommendations for improving constitutive relations used in computer codes — shock mechanics in solids
[AD-A133239] 06 p0897 N84-15823
Interactions of vibrationally excited molecules with solid surfaces
[AD-A133449] 06 p0915 N84-15950
Investigation of a para-ortho hydrogen reactor for application to spacecraft sensor cooling
[NASA-CR-175131] 06 p0916 N84-15957
An NMR study of solid hydrogen using packer solid echoes and rotating reference frame relaxation
06 p0922 N84-15992
Energy dependence of the yields of ion-induced sputtering of monatomic solids
[IPPJ-AM-32] 07 p1076 N84-16992
Theory of elementary excitations in intermediate valence materials
[DE84-003705] 07 p1083 N84-17044
On the propagation laws of combustion waves in solids (pyrotechnic reactions)
[BLL-TRANS-1098-(7291.7965)]
08 p1123 N84-17300
Preliminary investigation of an electrical network model for ultrasonic scattering
[NASA-CR-3770] 08 p1168 N84-17606
Global existence and asymptotics in one-dimensional nonlinear viscoelasticity
[AD-A136367] 09 p1374 N84-18970
Markov processes applied to control, replacement, and signal analysis
[AD-A136508] 09 p1382 N84-19023
Investigation of the thermophysical properties of high-melting materials with the aid of a complex of instruments
[NASA-TM-77402] 10 p1453 N84-19491
Diffusion of gases in porous solids: Simulations and measurements
[DE84-004146] 10 p1494 N84-19771
Dynamic compressive strain rate tests on 2 types of beryllium
[DE84-006126] 11 p1635 N84-20691
Shearing deformation of simple materials
11 p1666 N84-20872
Studies of the propagation of elastic waves in fluids and solids
[AD-A137603] 11 p1729 N84-21278
Rates and mechanisms of energy dissipation and the structure of molecular solids
[AD-A137714] 11 p1730 N84-21283
Solid modelling: History, status and current research directions 12 p1870 N84-22187
Solid modelling in the Department of Energy
12 p1870 N84-22188
Volumetric representation for object model acquisition
12 p1870 N84-22189
The representation of manipulable solid objects in a relational database 12 p1871 N84-22190
Translators between CADD and section 5 of the ANSI Y14.26M standard 12 p1871 N84-22132
Analysis of anelastic relaxations controlled by a spectrum of relaxation times
[DE84-006014] 12 p1915 N84-22479
Molecular dynamics studies of structural transformation in solids
[DE84-006409] 12 p1916 N84-22481
Temperature, concentration, and size measurements in turbulent reactive flows 13 p1943 N84-22633
Theoretical studies of solids under extreme conditions
[AD-A139352] 14 p2132 N84-23778
Nature of the surface and its effect on solid-state interactions 14 p2152 N84-23894
Importance of properties of solids to friction and wear behaviour 14 p2153 N84-23895
The NMR laser: A nonlinear solid state system showing chaos 14 p2239 N84-24440
Simulation of shock-induced energy flux in molecular solids, revision 1
[DE84-006331] 15 p2304 N84-24827
Stability of flow processes for dissipative solids with internal imperfections
[ISSN-0208-5658] 15 p2331 N84-24996
Deformation and fracture maps for polymer-foams, solid polymers and polymer-composites
[AD-A141197] 18 p2818 N84-27893
Size distribution of fragments forming during solid body destruction 18 p2863 N84-28175
The influence of lattice imperfections on the chemical reactivity of solids. The growth, perfection and defect properties of PETN (pentaerythritol tetranitrate) and RDX (cyclotrimethylene trinitramine) single crystals, part 1
[AD-A141271] 18 p2941 N84-28651
Diffusion of gases in porous solids: Simulations and measurements
[DE84-010822] 20 p3185 N84-30241
TOPAZ: A finite element heat conduction code for analyzing 2-D solids
[DE84-010676] 20 p3187 N84-30247
Vibrational studies of the structure of disordered solids
[AD-A142297] 20 p3202 N84-30338
Photoemission studies of mixed valent systems
[DE84-010797] 20 p3310 N84-31020
Solid surface luminescence analysis
[DE84-011254] 20 p3310 N84-31022
Analysis of moisture in solids: A review of the last decade or from Pande to the present
[DE84-011166] 21 p3362 N84-31326
DYNA3D user's manual. Nonlinear dynamic analysis of solids in three dimensions, revision 1
[DE84-012828] 21 p3486 N84-31979
Parametric excitation of transverse acoustic slot waves in solids by means of microwave electric field
21 p3478 N84-32045
Physics of ion sputtering
[DE84-011664] 21 p3495 N84-32150
Metastable complexes of helium-hydrogen isotopes
[DE84-009995] 21 p3496 N84-32160
Coupling of Rayleigh-like waves with zero sound modes in normal He-3
[DE84-010519] 22 p3653 N84-33153
X-ray spectroscopy of solids under pressure
[DE84-013790] 22 p3665 N84-33237
Boolean operations in solid modelling: Boundary evaluation and merging algorithms
[TM-26] 23 p3818 N84-34207
Ultrasonic velocity measurement using phase-slope cross-correlation methods
[NASA-TM-83784] 24 p3911 N84-34769

SOLIDS FLOW

Granular jumps down an inclined plane
[AD-A130501] 01 p0132 N84-10863
Prediction of floating solid velocities in unsteady partially filled pipe flow
[PB83-259598] 05 p0682 N84-14484
Solution of particulated viscous flow over a two dimensional cylinder and in a radial inflow turbine
10 p1496 N84-19782
Theoretical studies of solid particles in laminar and turbulent flows
[KU-SFB-80/T/223] 14 p2146 N84-23863
Nitrogen threshold experiment
15 p2427 N84-25578

SOLITARY WAVES

Solitons and polarons in quasi-one dimensional conducting polymers and related materials
[DE83-015233] 03 p0435 N84-12853
Considerations of the three-wave interactions
[IPPJ-641] 03 p0444 N84-12915
Computational synergetics and innovation in wave, vortex, and plasma cloud dynamics
[DE83-015252] 03 p0445 N84-12928
Commensurability, chaos, and the devil's staircase
[DE83-013280] 03 p0454 N84-12987
Alfven solitons in the solar wind
03 p0467 N84-13075
Soliton bag: Dynamics and the quark plasma
[DE84-001103] 05 p0745 N84-14895
The Froude number for solitary waves
[AD-A134548] 07 p1002 N84-16498

Solitary waves in water colliding head-on
[AD-A135537] 08 p1220 N84-17964
Mean field theory of the linear sigma-model: Chiral solitons
[DE84-002864] 08 p1229 N84-18034
Numerical schemes for a model for nonlinear dispersive waves
[NASA-CR-175416] 11 p1714 N84-21179
Transverse solitary waves in a dispersive ring bistability cavity containing a saturable nonlinearity
14 p2240 N84-24446
Soliton propagation in one-dimensional organic conductors
[AD-A139386] 14 p2242 N84-24463
Solutions in synthetic and biological polymers
[DE84-007505] 15 p2302 N84-24817
Passage of strong electromagnetic pulse through semiconductor in external magnetic field
18 p2824 N84-27930
Quasigeostrophic movements in barotropic and baroclinic fluid 18 p2865 N84-28191
Soliton collapse during ionospheric heating
[DE84-009994] 20 p3241 N84-30576
A study of the interaction of millimeter wave fields with biological systems
[AD-A144150] 24 p3935 N84-34910
Advanced studies of integrable systems
[AD-A144122] 24 p3959 N84-35069

SOLITONS
U SOLITARY WAVES

SOLUBILITY
Mutual solubility and properties of polyolefins and polyisoprene mixtures
[CSIR-TRANS-1647] 01 p0029 N84-10185
Sodium-sulfate solubilities in high-temperature (250 to 3740C) salt and acid solutions
[DE83-015813] 02 p0191 N84-11241
Development of multicomponent transport theory and transport data for membranes in concentrated electrolytes
[DE84-001846] 04 p0495 N84-13249
Physical modeling of the champagne effect
[DE84-001813] 04 p0516 N84-13368
Advanced fuel-cell development
[DE84-002685] 05 p0676 N84-14445
Crazing and fatigue behaviour of one and two phase polymers 06 p0811 N84-15282
Dispersion alloys TEXUS-Experiments: TEXUS-01 B TEXUS 7, TEM-01 B — microgravity processing
[NASA-TM-77531] 07 p0973 N84-16308
Photochemistry and photophysics of laser dyes
[AD-A136330] 09 p1320 N84-18626
Alkane soluble transition metal complexes
[AD-A137252] 10 p1458 N84-19525
Investigation of silicon materials for solar cells. Part 1: Segregation and gettering properties of certain contaminations. Part 2: Measurement of electrical parameters
[BMFT-FB-T-83-204] 10 p1531 N84-20026
Physical processes in fluids
[NASA-CR-170990] 12 p1814 N84-21827
Solubility of hydrogen in metals and its effect of pore-formation and embrittlement
[NASA-CR-173399] 14 p2127 N84-23751
Separation processes during binary monotectic alloy production
[NASA-TM-82579] 15 p2295 N84-24773
Thiazine dyes for use in photogalvanic cells
[DE84-009097] 15 p2330 N84-24990
Cathode materials development for carbonate fuel cells
[DE84-010033] 15 p2363 N84-25179
Synthesis and properties of phenylated aromatic heterocyclic imide and thiazole polymers containing pendant diphenylether and diphenylsulfide groups
[AD-A140341] 16 p2472 N84-25844
The effect of gravity on the solidification of immiscible alloys — conference
[ESA-SP-219] 17 p2612 N84-26719
On the separation of alloys exhibiting a miscibility gap
17 p2612 N84-26720
Space results on the solidification of immiscible alloys
17 p2612 N84-26722
Preparation of dispersion alloys: Component separation during cooling and solidification of dispersions of immiscible alloys 17 p2613 N84-26725
Filtration theory approach to immiscible alloys solidification 17 p2613 N84-26729
Experimental study of immiscibility in metallurgical systems
[BLL-M-35553-(5826.4)] 17 p2621 N84-26775
Method for the preparation of thin-skinned asymmetric reverse osmosis membranes and products thereof
[NASA-CASE-ARC-11359-1] 18 p2894 N84-28361
Chemical attenuation rates, coefficients, and constants in leachate migration. Volume 1: A critical review
[DE84-009432] 20 p3238 N84-30557
Soluble polyacetylenic and polyaromatic polymers and method of making the same
[DE84-014314] 23 p3725 N84-33607

SOLUTES
Fourth Europhysical Conference on Lattice Defects in Ionic Crystals
[AD-A132387] 04 p0612 N84-14039
Small solute concentration differences determined by interferometry
[CSIR-CENG-424] 07 p0969 N84-16278
Pulsed laser melting: The effect of implanted solutes on the resolidification velocity
[DE84-003252] 07 p1010 N84-16552
Segregation of Zn solutes to high-angles (001) twist grain boundaries in Al
[DE84-003455] 08 p1134 N84-17375
A theoretical analysis of the influence of crack dimensions and geometry on mass transport in corrosion fatigue cracks
[NPL-DMA(A)-69] 12 p1825 N84-21897
Transient and diffusion analysis of HgCdTe
[NASA-CR-162049] 20 p3152 N84-30015
Chemical attenuation rates, coefficients, and constants in leachate migration. Volume 1: A critical review
[DE84-009432] 20 p3238 N84-30557
Hydrogeology, digital solute-transport simulation, and geochemistry of the Lower Cretaceous aquifer system near Baltimore, Maryland 21 p3425 N84-31728

SOLUTION
On pairs of positive solutions for a class of semilinear elliptic problems
[AD-A141504] 19 p3084 N84-29574

SOLUTIONS
NT AQUEOUS SOLUTIONS
NT DETONABLE GAS MIXTURES
NT GAS MIXTURES
NT PHOTOGRAPHIC EMULSIONS
NT SOLID SOLUTIONS
Non-Newtonian intrinsic viscosity of rigid ellipsoid solutions
[BLL-WH-570-(9091.9F)] 01 p0138 N84-10903
Method and apparatus for minimizing convection during crystal growth from solution
[NASA-CASE-NPO-15811-1] 03 p0451 N84-12968
Pseudospectral solution of inviscid flows with multiple discontinuities
[AD-A132084] 04 p0534 N84-13510
Diffusion on viscous fluids, existence and asymptotic properties of solutions
[AD-A134538] 07 p1063 N84-16891
Smoothness of bounded solutions of nonlinear evolution equations
[AD-A135294] 08 p1219 N84-17958
Orbit connections in a parabolic equation
[AD-A135986] 09 p1378 N84-18999
Physical processes in fluids
[NASA-CR-170990] 12 p1814 N84-21827
A method for evaluating the surface concentrations of 2 like-charged ions simultaneously adsorbed at an electrode-solution interface
[AD-A139074] 13 p1957 N84-22724
On the almost periodicity of the solutions of an integrodifferential equation
[AD-A139312] 14 p2213 N84-24293
Corrosion of carbon steel in oxidizing caustic solutions
[DE84-000209] 15 p2298 N84-24792
Development of methods of evaluation extensional properties of polymer solutions from measurements of shear
[AD-A140451] 16 p2472 N84-25845
Exciplex ionic dissociation in non-polar solvent induced by multipolar salt complexes
[AD-A140919] 17 p2620 N84-26766
Surface contamination from actinide solutions
[AERE-R-11046] 18 p2816 N84-27879
Embrittlement of 4340 type steel by liquid lead and antimony and lead-antimony solutions
[AD-A143785] 23 p3718 N84-33567
The analytic structure of ordinary and partial differential equation
[AD-A144121] 24 p3950 N84-35011

SOLVATION
Molecular supersonic jet studies of Aniline solvation by helium and methane
[AD-A132879] 05 p0650 N84-14276
Redox thermodynamics of surface-bound reactants. Illustrative behavior of Cobalt(3)/(2) macrobicyclic cage complexes
[AD-A139058] 13 p1957 N84-22723
Dispersion spectroscopy of optical electron transfer in solution
[AD-A139101] 14 p2121 N84-23713
The transfer of atoms, ions and molecular groups in solution. Part 1: Models and limits
[AD-A142333] 20 p3147 N84-29981
Solvation and dielectric dispersion in optical electron transfer
[AD-A144183] 24 p3880 N84-34580

SOLVENT EXTRACTION
Supercritical multicomponent solvent coal extraction
[NASA-CASE-NPO-15787-1] 07 p0965 N84-16255
New process for recycling of rhodium and iridium from old catalysts
[BMFT-FB-T-83-179] 08 p1126 N84-17321
Applications of solvent extraction in hydrometallurgy
[BLL-OA-TRANS-3162-(6196.3)]
08 p1128 N84-17334
Determination of Cr(6) and Cr(3) by ICP
[DE83-016827] 10 p1457 N84-19515
Dehydration of aluminum chloride hexahydrates: A technical assessment
[DE84-013066] 21 p3362 N84-31328
Cleavage of aromatic carbon-carbon bonds
[DE84-010161] 22 p3543 N84-32432
Obtaining iron-55 with high radiochemical purity
[CSIR-TRANS-1751] 22 p3553 N84-32494

SOLVENT REFINED COAL
Effect of feed gas trace components on the SRC-1 hydrogen purification unit
[DE84-012975] 22 p3562 N84-32556

SOLVENTS
NT TETRAHYDROFURAN
Stabilization of the solvent Methyl-n-Amyl Ketone (MAK) in vinyl paints
[AD-A131059] 01 p0050 N84-10323
Solvent stress-cracking study for a matrix material
[DE83-014075] 02 p0188 N84-11224
Structural effects on hydrogen bonding properties of nitro compounds
[AD-A130817] 02 p0190 N84-11232
Investigation of the possibilities for the electrodeposition of titanium from non-aqueous solutions
[BLL-OA-TRANS-3069-(6196.3)]
04 p0498 N84-13267
Vapor degreaser/ultrasonic cleaner solvent evaluation
[DE84-002015] 04 p0508 N84-13331
Polymer coated electrodes in ambient temperature molten salts
[AD-A133202] 06 p0801 N84-15220
Phenoxy resins containing pendent ethynyl groups
[NASA-TM-85747] 07 p0978 N84-16338
Solvent effects on emission yield and lifetime for coumarin laser dyes. Requirements for a rotatory decay mechanism
[AD-A136358] 09 p1321 N84-18629
Development of an impact- and solvent-resistant thermoplastic composite matrix
[NASA-CR-172285] 12 p1789 N84-21666
Supercritical solvent coal extraction
[NASA-CASE-NPO-15210-1] 13 p1955 N84-22709
The influence of specific reactant-solvent interactions on intrinsic activation entropies for outer-sphere electron transfer reactions
[AD-A139081] 13 p1957 N84-22725
Synthesis and properties of phenylated aromatic heterocyclic imide and thiazole polymers containing pendant diphenylether and diphenylsulfide groups
[AD-A140341] 16 p2472 N84-25844
Exciplex ionic dissociation in non-polar solvent induced by multipolar salt complexes
[AD-A140919] 17 p2620 N84-26766
Capillary zone electrophoresis: Instrumentation and use with nonaqueous solvents
[DE84-010617] 18 p2812 N84-27854
Gas-liquid correlation of ionization energies
[AD-A141255] 18 p2930 N84-28578
Nuclear magnetic resonance studies of molten salts
[AD-A141751] 19 p2988 N84-28935
Solvent, ligand, and ionic charge effects on reaction entropies for simple transition-metal redox couples
[AD-A142374] 20 p3147 N84-29984
The effect of injection molding processing parameters on the environmental stress cracking resistance of polycarbonate moldings
[MRL-R-924] 20 p3201 N84-30332
Determination of evaporation rates of organic solvents by thin-film evaporometer
[DE84-012308] 21 p3360 N84-31313
Study of the kinetics of hydrogenation using aged catalysis
[DE84-006588] 21 p3362 N84-31330
Solvation and dielectric dispersion in optical electron transfer
[AD-A144183] 24 p3880 N84-34580

SOMMERFELD APPROXIMATION
Exact image theory for the Sommerfeld half-space problem with a vertical magnetic dipole
[REPT-S-142] 10 p1572 N84-20301

Buried antenna analysis at VHF. Part 1: The buried horizontal electric dipole
[AD-A138068] 12 p1606 N84-21774
New formulas for HED (Horizontal Electric Dipole), HMD (Horizontal Magnetic Dipole), VED (Vertical Electric Dipole), and VMD (Vertical Magnetic Dipole) subsurface-to-subsurface propagation
[AD-A139030] 13 p2033 N84-23187
Exact image theory for the Sommerfeld half-space problem with a vertical electric di-pole
[REPT-S-144] 15 p2320 N84-24926

SONAR
Afternoon effect studies, part 1
[AD-A130926] 01 p0140 N84-10918
Surface heat flux derived from sodar amplitude and frequency data: A comparison
[DE83-017930] 04 p0584 N84-13717
Underwater acoustic modeling techniques
10 p1507 N84-19864
Technical specifications for spread function model
[AD-A137292] 10 p1575 N84-20321
SeaMARC 2 side-scan images of submarine volcanoes: Potential analogues for Venus 11 p1754 N84-21452
Venus analogues on the Earth's ocean floor(?): Volcanic terrains seen by SeaMARC 2 side scan sonar
11 p1755 N84-21456
Individual differences in military decisionmaking: The classification performance of active sonar operators
[AD-P002885] 13 p1979 N84-22846
Structural studies of the northwest Iberian continental margin using long-range side-scan sonar
[IOS-161] 15 p2366 N84-25196
Effects of stress on permeation and polyurethane degradation
[AD-A140260] 16 p2472 N84-25841
Digitally controlled sonars
[AD-P003121] 16 p2533 N84-26262
Detection of randomly occuring signals using spectra and frequency domain kurtosis estimates
[AD-A141461] 19 p3084 N84-29573
Quick Deployment Vehicle (QDV)
[AD-D011060] 22 p3563 N84-32563
Doppler-based target localization by a distributed system of omnidirectional sensors
[REPT-3-95] 23 p3729 N84-33636

SONDES
NT DROPSONDES
NT IONOSONDES
NT RADIOSONDES
NT RAWINSONDES
Further analysis of yawsonde data from some liquid payload projectiles
[AD-A137256] 11 p1653 N84-20791
Reports from the German Meteorological Service. No 21: The evolution of meteorological observations in Austria, including Bohemia and Moravia up to the year 1700
[ISBN-3-88148-208-3] 14 p2178 N84-24046

SONIC BOOMS
A comparison of measured and theoretical predictions for STS ascent and entry sonic booms
01 p0027 N84-10168
Random-choice solutions for weak spherical shock-wave transitions of n-waves in air with vibrational excitation
[UTIAS-253] 01 p0077 N84-10502
An analysis of shock coalescence including three-dimensional effects with application to sonic boom prediction 02 p0286 N84-11890
An experimental and numerical study of weak spherical N-waves produced by exploding wires
[UTIAS-TECH-NOTE-248] 11 p1651 N84-20779
Studies to improve environmental assessments of sonic booms produced during air combat maneuvering
[AD-A138254] 12 p1899 N84-22368
An analysis of shock coalescence including three-dimensional effects with application to sonic boom extrapolation
[NASA-TP-2214] 13 p1988 N84-22906
Seismo-acoustic effects of sonic booms on archeological sites, Valentine Military Operations Area
[AD-A139581] 14 p2146 N84-23862
Response of a plaster-wood room subjected to simulated sonic booms
[UTIAS-276] 21 p3421 N84-31701

SONIC FLOW
U TRANSONIC FLOW

SONIC NOZZLES
The new calibration tank for engine simulators at DFVLR Goettingen 14 p2099 N84-23593

SONIC SPEED
U ACOUSTIC VELOCITY

SONOGRAMS
Ultrasonography of canine soft tissues during decompression 20 p3254 N84-30853

SONOHOLOGRAPHY
U ACOUSTICAL HOLOGRAPHY

SOOT
Solar radiative impacts of graphitic carbon (soot) in aerosols, clouds and snow 02 p0243 N84-11592
Soot formation from polycyclic aromatics
[DE83-009750] 03 p0349 N84-12271
Structure of convective surface deposits and effect on MHD steam-plant design
[DE83-010757] 03 p0446 N84-12931
An experimental investigation of soot behavior in a gas turbine combustor
[AD-A132210] 04 p0487 N84-13202
Scattering and absorption of light by soot particles
[DE84-002308] 06 p0918 N84-15967
Effects of broadened property fuels on radiant heat flux to gas turbine combustor liners
[NASA-TM-83537] 07 p1001 N84-16494
Ionic mechanisms of carbon formation in flames
[AD-A137079] 10 p1455 N84-19505
Saturated laser fluorescence in turbulent sooting flames at high pressure 11 p1612 N84-20551
Shock tube study of the fuel structure effects on the chemical kinetic mechanisms responsible for soot formation
[NASA-CR-174661] 12 p1790 N84-21677
Solid carbon oxidation and radiation in exhaust plumes
13 p1941 N84-22623
Mechanism of soot formation in premixed C2H2/O2 flames 13 p1958 N84-22727
Soot formation in diffusion flames
15 p2291 N84-24750
Growth of electrically charged soot particles in flames
15 p2291 N84-24751
Formation and destruction of organic pollutants in thermal systems and flames 15 p2291 N84-24752
Optical measurements of soot size and number density in a complex flow, swirl-stabilized combustor
15 p2292 N84-24753
Fuel effects on soot formation in turbojet engines
[AD-A141267] 18 p2821 N84-27912

SORBENTS
NT ABSORBENTS
NT ADSORBENTS
Studies involving high temperature desulfurization/regeneration reactions of metal oxides for fuel cell development
[DE84-003096] 18 p2876 N84-28261

SORGHUM
Radar response from vegetation with nodal structure
[E84-10085] 10 p1520 N84-19956
Turbulent exchange of carbon dioxide, water vapor, heat and momentum over crop surfaces
10 p1538 N84-20079

SORPTION
NT ADSORPTION
NT CHEMISORPTION
Diffusion and sorption of cyclohexane vapor in SBS and SBR copolymers
[AD-A132397] 04 p0506 N84-13315
A general computer model for predicting the performance of gas sorption refrigerators
06 p0820 N84-15349

SORTING
U CLASSIFYING

SOT
U SOLAR OPTICAL TELESCOPE

SOUND
U ACOUSTICS

SOUND ABSORPTION
U SOUND TRANSMISSION

SOUND AMPLIFICATION
Transverse horizontal coherence and low-frequency array gain limits in the deep ocean
[AD-A131916] 03 p0430 N84-12821
Propagation of sound through a gas with an over-population of excited vibrational states
[AD-A134181] 07 p1070 N84-16950
Equipment for monitoring and control of television transmitters 21 p3378 N84-31435

SOUND BARRIER
U ACOUSTIC VELOCITY

SOUND DETECTORS
U SOUND TRANSDUCERS

SOUND FIELDS
Transverse horizontal coherence and low-frequency array gain limits in the deep ocean
[AD-A131916] 03 p0430 N84-12821
The numerical synthesis and inversion of acoustic fields using the Hankel transform with application to the estimation of the plane wave reflection coefficient of the ocean bottom
[AD-A133156] 06 p0908 N84-15901
La Recherche Aerospatiale, Bimonthly Bulletin, no. 1983-6, 217/November-December
[ESA-TT-841] 16 p2476 N84-25870
Analysis of the sound field radiated by the Ariane launch vehicle during lift-off 16 p2476 N84-25872
Multisensor speech input
[AD-A140894] 17 p2654 N84-26974
Features of sound penetration from air into water
18 p2858 N84-28152
Inversion of the acoustic plane wave reflection response of a layered ocean bottom
[AD-A132794] 18 p2928 N84-28570
Sound field of turbulent wake
21 p3478 N84-32048

SOUND GENERATORS
Generation of sound in turbulent shear flows
06 p0768 N84-15031
Self-sustained oscillations of a shock wave interacting with a boundary layer on a supercritical airfoil
[NASA-CR-175338] 07 p0945 N84-16131
Technology Reports of the Kyushu University, vol. 56, no. 3, June 1983
[ISSN-0023-2718] 07 p0982 N84-16359
Sound radiation by vortex-body interaction
07 p0982 N84-16360
Experimental apparatus for studying moving thermoacoustic sources
[AD-A134517] 07 p1010 N84-16549
Analysis of some acoustics-jet flow interaction problems
[NASA-CR-175340] 07 p1069 N84-16944
Estimating the trajectory of a sound source moving without acceleration using observations from a single stationary sensor
[LFD-215] 16 p2553 N84-26381
A theoretical prediction of the acoustic pressure generated by turbulence-flame front interactions
[NASA-TM-83567] 16 p2553 N84-26383
A comparison of impedance measurement techniques in air
[AD-A143638] 23 p3821 N84-34232

SOUND HOLOGRAPHY
U ACOUSTICAL HOLOGRAPHY

SOUND INTENSITY
NT ZERO SOUND
The physical and psychological factors governing sound-image quality
[NHK-SERIAL-298] 15 p2403 N84-25424
Techniques and instrumentation for the measurement of transient sound energy flux
[ISVR-TR-122A] 15 p2404 N84-25427
A comparison of measured take-off and flyover sound levels for several general aviation propeller-driven aircraft
[AD-A139901] 15 p2404 N84-25429
Process controlled measuring valve acquisition taking example by the noise measuring technique
[PTB-E-25] 16 p2554 N84-26389
Measurement of flux density of sound energy
17 p2638 N84-26874
On measuring the acoustic intensity of hydroacoustic sources
[AD-A142484] 20 p3291 N84-30893
Measurement of the absorption coefficient using the sound-intensity technique
[NASA-CR-173848] 21 p3490 N84-32115
The loudness of complex noise consisted of impact sound and steady noise 23 p3741 N84-33711

SOUND LOCALIZATION
Parametric and nonparametric Fast Kalman echo cancellation 13 p1987 N84-22901
Perception of binaural temporal shifts
18 p2898 N84-28367

SOUND MEASUREMENT
U ACOUSTIC MEASUREMENT

SOUND PERCEPTION
U AUDITORY PERCEPTION

SOUND PRESSURE
Technique for measuring the sound pressure levels under flying helmets and headsets
[IZF-1982-39] 02 p0269 N84-11765
Experimental determination of the particle motions associated with the low order acoustic modes in enclosures
[NASA-CR-174542] 02 p0287 N84-11882
Study of noise-certification standards for aircraft engines. Volume 2: Procedures for measuring far field sound pressure levels around an outdoor jet-engine test stand
[AD-A133408] 06 p0791 N84-15158
Spinning mode acoustic radiation from the flight inlet
[NASA-CR-172273] 06 p0908 N84-15896
Acoustic shocks in a variable area duct containing near sonic flows
[NASA-CR-172274] 06 p0908 N84-15897
Measurement of transmission loss characteristics using acoustic intensity techniques at the KU-FRL Acoustic Test Facility
[NASA-CR-173187] 07 p1069 N84-16942

Suppression of peak noise by reshaping coaxial flow circumferentially under static conditions
[NAL-TR-770] 09 p1386 N84-19053
National Aerospace Laboratory News (Japan)
[NASA-TM-76962] 10 p1427 N84-19335
Development of low noise vacuum vane pumps
[BMFT-FB-HA-84-009] 18 p2850 N84-26084
Features of sound penetration from air into water 18 p2858 N84-26152
Physical measures of sound and noise 19 p3069 N84-29467
Effect of turbulent boundary layer flow on measurement of acoustic pressure and intensity, revised
[AD-A142473] 20 p3184 N84-30229
Finite element prediction of acoustic scattering and radiation from submerged elastic structures 22 p3610 N84-32674
The prediction of acoustical particle motion using an efficient polynomial curve fit procedure
[NASA-CR-173915] 22 p3651 N84-33145

SOUND PROPAGATION
NT VOICE
Turn-around loss for oceanic sound on a bottom slope
[AUWE-TN-705/83] 03 p0430 N84-12818
Short-range acoustic intensity vectors of the Pekeris shallow water model
[AMTE(N)-TM-83065] 03 p0430 N84-12819
Amplification of sound by gas phase reactions
[AD-A133747] 05 p0649 N84-14266
The parabolic approximation for sound propagation in stratified moving media 06 p0907 N84-15893
Transonic noise generation by duct and profile flow
[AD-A129367] 06 p0908 N84-15899
Marine environmental acoustics
[AD-A133245] 06 p0909 N84-15902
Acoustic radiation from a semiinfinite annular duct in a uniform subsonic mean flow
[NLR-MP-82045-U] 09 p1387 N84-19059
Initial experiments on profile vortex interaction --- helicopter noise
[MPIS-6/1983] 12 p1766 N84-21520
On the measurement of structure-borne sound energy flow along pipes. Part 3: Analysis of systematic and random errors
[TPD-308.785/1] 12 p1900 N84-22377
Acoustic wave propagation through shear layer of the German-Dutch open jet wind tunnel (DNW)
[NLR-MP-83003-U] 12 p1901 N84-22379
Studies of acoustical properties of bulk porous flexible materials
[NASA-CR-173622] 17 p2762 N84-27544
Acoustic structure and propagation in highly porous, layered, fibrous materials 17 p2762 N84-27546
Contributions to the theory of sound propagation in ducts with bulk-reacting lining
[NLR-MP-83064-U] 17 p2763 N84-27551
Formation of coherent structures by acoustical effects in a turbulent wake 21 p3480 N84-32055
Acoustic propagation in the surface layer under convectively unstable conditions 21 p3489 N84-32111
Prediction of light aircraft interior sound pressure level using the room equation
[NASA-CR-173840] 21 p3490 N84-32117
Analysis of the effect on combustor noise measurements of acoustic waves reflected by the turbine and combustor inlet
[NASA-TM-83760] 21 p3491 N84-32122
The prediction of acoustical particle motion using an efficient polynomial curve fit procedure
[NASA-CR-173915] 22 p3651 N84-33145

SOUND TRANSDUCERS
NT ELECTROACOUSTIC TRANSDUCERS
NT HYDROPHONES
NT LOUDSPEAKERS
NT MICROPHONES
Vibrating-chamber levitation systems
[NASA-CASE-NPO-16142-1] 07 p1070 N84-16948
Introduction to acoustic emission
[NASA-TM-77066] 08 p1227 N84-18016
Estimation of the flight parameters of low flying aircraft using the radiated noise
[LFD-211] 15 p2259 N84-24569
Effects of stress on permeation and polyurethane degradation
[AD-A140260] 16 p2472 N84-25841
Ocean bottom seismograph operation: Certain problems of procedure 19 p3060 N84-29415
Method and apparatus for measuring stress
[DE84-011035] 20 p3203 N84-30347
Development of the sonic pump levitation
[NASA-CR-161963] 22 p3592 N84-32749

SOUND TRANSMISSION
A bathythermograph to sound velocity profile program for the HP-41CV calculator, including a Northern Hemisphere salinity profile library
[AD-A130761] 01 p0111 N84-10720
Afternoon effect studies, part 1
[AD-A130926] 01 p0140 N84-10918
Nonlinear response and noise transmission of double wall sandwich panels 02 p0187 N84-11215
Transmission of sound through a cylindrical shell and a light aircraft fuselage 02 p0287 N84-11881
A light assembly system of sections adaptable to sound or heat insulation, for numerous applications
[BMFT-FB-T-83-065] 02 p0288 N84-11889
Transverse horizontal coherence and low-frequency array gain limits in the deep ocean
[AD-A131916] 03 p0430 N84-12821
Optimum depth of propagation in shallow water
[AD-A132182] 04 p0595 N84-13927
Sound propagation through a moderate coastal upwelling: Comparison of modeling prediction with experimental data
[AD-A133782] 05 p0742 N84-14876
Light aircraft sound transmission study
[NASA-CR-173175] 07 p1069 N84-16941
Propagation of sound through a gas with an over-population of excited vibrational states
[AD-A134181] 07 p1070 N84-16950
Digital sound service for direct broadcasting satellites 08 p1146 N84-17482
Experimental digital stereo sound with terrestrial television: Field tests from Wenvoe, October 1983
[BBC-RD-1983/19] 09 p1298 N84-18483
Undersea sound speed and range estimation
[AD-A136954] 13 p2040 N84-23237
The physical and psychological factors governing sound-image quality
[NHK-SERIAL-298] 15 p2403 N84-25424
Experimental study using Nearfield Acoustical Holography of sound transmission fuselage sidewall structures
[NASA-CR-173639] 17 p2671 N84-27024
Structure-borne sound transfer functions of a Dunlop Super "D" flexible mounting
[TPD-408.870/1] 17 p2763 N84-27552
Digital sound transmission methods for TV sound tracks
[BMFT-FB-W-84-007] 19 p3009 N84-29075
Wind-generated noise in shallow water
[AD-A141981] 20 p3290 N84-30890
Digital transmission: 68Mbit/s pal field trial system
[BBC-RD-1984/5] 21 p3361 N84-31455
Dependence of acoustic properties of sound absorbing fibrous materials on their structure 21 p3477 N84-32044
Formation of coherent structures by acoustical effects in a turbulent wake 21 p3480 N84-32055
Measurement of the absorption coefficient using the sound-intensity technique
[NASA-CR-173848] 21 p3490 N84-32115

SOUND VELOCITY
U ACOUSTIC VELOCITY

SOUND WAVES
NT AERODYNAMIC NOISE
NT AIRCRAFT NOISE
NT ELECTROACOUSTIC WAVES
NT ENGINE NOISE
NT ION ACOUSTIC WAVES
NT JET AIRCRAFT NOISE
NT NOISE (SOUND)
NT SONIC BOOMS
NT THERMAL NOISE
Linear theory of pressure oscillations in liquid-fueled ramjet engines
[AD-A131610] 01 p0012 N84-10075
A review of research in chemical-acoustic coupling
[AD-A129896] 01 p0140 N84-10915
The velocity of sound behind strong shock waves in 2024 Al
[DE83-015927] 02 p0220 N84-11446
Acoustic pulse scattering from impedance covered cylinders
[AD-A131653] 03 p0431 N84-12822
Double porosity model for acoustic wave propagation in fractured-porous rock
[DE83-017823] 03 p0431 N84-12823
An analysis of acoustic and seismic wave resonances 04 p0561 N84-13701
Acoustic-gravity wave dispersion relations in a baroclinic atmosphere
[PB83-248690] 04 p0565 N84-13726
The response of a laminar boundary layer to sound and wall vibration
[AD-A132643] 05 p0681 N84-14474
Acoustoelasticity: Scanning with shear waves 05 p0695 N84-14580
Acoustic radiation from submerged structures at characteristic frequencies 05 p0742 N84-14872
Spinning mode acoustic radiation from the flight inlet
[NASA-CR-172273] 06 p0908 N84-15898
Aerodynamic sources of acoustic radiation from a single MOD-2 wind turbine
[DE84-000013] 06 p0909 N84-15905
Report of significant accomplishments. Joint services electronics program of the Edward L. Ginzton laboratory
[AD-A133360] 07 p0998 N84-16489
Analysis and acoustooptical measurements of bulk and surface acoustic wave fields
[NASA-CR-173271] 07 p1069 N84-16945
Multipole monolithic Surface Acoustic Wave (SAW) resonator filters
[AD-A136123] 09 p1309 N84-18581
Investigation of high efficiency large TBW line acoustic wave convolvers
[AD-A135686] 09 p1387 N84-19058
The effect on acoustic radiation of mutual interaction between a line vortex and an airfoil
[FFA-TN-1983-45] 09 p1387 N84-19068
A Kosloff/Basal method, 3D migration program implemented on the CYBER 205 supercomputer 10 p1562 N84-20232
Measurement of stress with acoustic waves 11 p1728 N84-21273
Basic experimental study of the coupling between flow instabilities and incident sound
[NASA-CR-3789] 11 p1728 N84-21275
Acoustic exploration of ocean floor properties based on the ringing of sediment layer resonances
[AD-A138245] 12 p1899 N84-22367
Measuring the temperature coefficients of the elastic constants of indium phosphide
[AD-A138454] 12 p1915 N84-22474
Rocket motor aeroacoustics 13 p1944 N84-22642
Coupling between velocity oscillations and solid propellant combustion 13 p1944 N84-22643
Automatic elimination of static unbalance of rotor in anisotropic bearings 13 p1973 N84-22803
Acoustic ground impedance meter
[NASA-CASE-LAR-12995-1] 13 p1993 N84-22933
Acoustic-to-Seismic coupling over porous ground surfaces
[AD-A138753] 13 p2011 N84-23046
Acoustic rotation control
[NASA-CASE-NPO-15689-1] 13 p2039 N84-23233
A new eigenfunction expansion and its application to waveguide acoustics
[AD-A138946] 13 p2040 N84-23236
Coupling of airborne sound in a sandy soil — containing seismic sensors
[LEOK-TR-1983-09] 13 p2040 N84-23238
Seismo-acoustic effects of sonic booms on archeological sites, Valentine Military Operations Area
[AD-A139581] 14 p2146 N84-23662
Growth rates of parametric instabilities driven by two pumps
[AD-A139463] 14 p2229 N84-24364
Computation of noise radiating from a free jet perpendicular to its axis via laser anemometry measurements
[ONERA-NT-1983-6] 16 p2554 N84-26387
Reflection, scattering, and absorption of acoustic waves by rough surfaces
[AD-A140523] 16 p2555 N84-26390
Effect of nonhomogeneity on nonlinear stabilization of acoustic vibrations in heat emitting medium within bounded volume 17 p2646 N84-26926
Nonlinear phenomena in electromagnetic and acoustic wave propagation
[AD-A140716] 17 p2653 N84-26969
Suppression of finite-amplitude effects in sloshing modes in cylindrical cavities
[AD-A140652] 17 p2758 N84-27509
Acoustic surface wave applications 18 p2918 N84-28503
Random field satisfying a linear partial differential equation with random forcing term
[AD-A141886] 19 p3088 N84-29608
Excitation of sound by light 20 p3285 N84-30863
A finite element method for treating nearly one way wave propagation
[DE84-010294] 20 p3290 N84-30889
Overground Excess Sound Attenuation (ESA). Volume 2: Analysis of data for flat grassy terrain conditions
[AD-A142420] 20 p3291 N84-30892
Propagation of acoustic waves in partially saturated porous media
[DE84-010536] 20 p3291 N84-30896
On waves in nonadiabatic and nonequilibrium gases
[AD-A141450] 21 p3383 N84-31465
Response of a plaster-wood room subjected to simulated sonic booms
[UTIAS-278] 21 p3421 N84-31701

Signal analysis and data processing system (acoustic and vibratory)
[CETIM-11-H-50-9] 21 p3467 N84-31981
Parametric excitation of transverse acoustic slot waves in solids by means of microwave electric field
21 p3478 N84-32045
Transition from laminar to turbulent flow under action of acoustic vibrations 21 p3480 N84-32056
Electromagnetic excitation of sound in metals
21 p3484 N84-32062
Analysis of the effect on combustor noise measurements of acoustic waves reflected by the turbine and combustor inlet
[NASA-TM-83760] 21 p3491 N84-32122
Numerical solutions of acoustic wave propagation problems using Euler computations
[NASA-CR-172434] 22 p3645 N84-33112
Coupling of Rayleigh-like waves with zero sound modes in normal He-3
[DE84-010519] 22 p3653 N84-33153
Electronic cancelling of acoustic traveling waves
[AD-D011153] 23 p3735 N84-33667
Experimental investigation of rocket motor flow-turning acoustic losses
[AD-A144168] 24 p3866 N84-34504
Nonlinear interaction of two noncollinear sound waves in a rectangular waveguide
[AD-A144440] 24 p3895 N84-34666

SOUNDERS
U SOUNDING

SOUNDING
NT ACOUSTIC SOUNDING
NT ATMOSPHERIC SOUNDING
NT BALLOON SOUNDING
NT IONOSPHERIC SOUNDING
NT MICROWAVE SOUNDING
NT ROCKET SOUNDING
NT SATELLITE SOUNDING
Evaluation of a ground transient electromagnetic remote sensing method for the deep detection and monitoring of salt water interfaces
[PB83-253351] 05 p0698 N84-14580
Determination of propagation limitations at HF by real-time update of a computer model from oblique sounder data 06 p0869 N84-15660
Simulation of Thematic Mapper data for remote bathymetry
[AD-A136377] 09 p1337 N84-18726
Detailed study of Earth's crust in Baykal rift zone according to refracted waves data
18 p2860 N84-28160
New types of transient processes observed in electromagnetic sounding 18 p2860 N84-28164

SOUNDING ROCKETS
Engineering services in support of the AFGL sounding rocket program
[AD-A131929] 03 p0340 N84-12211
Sounding rocket XUV observations of Capella
04 p0618 N84-14078
Fine pointing control of the solar UV telescope on the sounding rocket S-520-5
[ISAS-608] 06 p0938 N84-16094
Dispersion alloys TEXUS-Experiments: TEXUS-01 B TEXUS 7, TEM-01 B — microgravity processing
[NASA-TM-77531] 07 p0973 N84-16308
Rocket and laboratory studies in aeronomy and astronomy
[NASA-CR-173272] 07 p1068 N84-17075
Ion source for a rocket payload
[AD-A135051] 08 p1121 N84-17289
Aerodynamics of sounding rockets at supersonic speeds 16 p2455 N84-25743
Cloud seeding with TG-10 rockets — hail suppression
18 p2888 N84-28329
Remote data acquisition system
[AD-A143347] 22 p3541 N84-32419
Investigation into the internal aerodynamic design and associated errors in a fast descent ducted sonde for the measurement of atmospheric pressure and temperature (AMPARS phase 2)
[AD-A143189] 22 p3625 N84-32969
LWIR signature from EXCEDE SPECTRAL
[AD-A144169] 24 p3860 N84-34463

SOURCE PROGRAMS
Computation of the Wyner-Ziv rate distortion function
[EUT-83-E-140] 10 p1484 N84-19699

SOURCES
Source header list, supplement 1
[AD-A131800] 03 p0459 N84-13024
Source hierarchy list. Volume 1: A through H
[AD-A143500] 22 p3674 N84-33291
Source hierarchy list. Volume 2: I through Z
[AD-A143501] 22 p3674 N84-33292

SOUTH AMERICA
Application of Magsat lithospheric modeling in South America. Part 1: Processing and interpretation of magnetic and gravity anomaly data
[E84-10115] 13 p2005 N84-23008
Application of MAGSAT to lithospheric modeling in South America. Part 2: Synthesis of geologic and seismic data for development of integrated crustal models
[E84-10126] 15 p2355 N84-25128
Correlation of tectonic provinces of South America and the Caribbean region with MAGSAT anomalies
15 p2355 N84-25130
Satellite elevation magnetic and gravity models of major South American plate tectonic features
15 p2355 N84-25131
Relation of MAGSAT anomalies to the main tectonic provinces of South America 15 p2356 N84-25137
Relation of MAGSAT and gravity anomalies to the main tectonic provinces of South America
15 p2357 N84-25138
A crustal structure study of South America
15 p2357 N84-25139
Eolian quartz granulometry as a paleowind indicator in the Northeast Equatorial Atlantic, North Pacific and Southeast Equatorial Pacific 23 p3796 N84-34069
Automatic drawing of synoptic charts
[INPE-3146-RPE/456] 23 p3800 N84-34094
Vertical mode decomposition and model resolution
[INPE-3230-PRE/580] 24 p3918 N84-34805

SOUTH CAROLINA
Water resources data for South Carolina, water year 1982
[PB84-162577] 14 p2170 N84-24003
Evaluation of insecticides, repellents, and other approaches to the control of coastal stand flies, culicoides spp
[AD-A141132] 19 p3063 N84-29435

SOUTH DAKOTA
Analysis of the quality of image data acquired by the LANDSAT-4 Thematic Mapper (TM) of the Black Hills area, South Dakota
[E84-10041] 04 p0552 N84-13634
Water resources data for South Dakota, water year 1982
[PB84-117175] 09 p1339 N84-18748
Study of Thematic Mapper and Multispectral Scanner data applications 20 p3215 N84-30421

SOUTHERN HEMISPHERE
NT ANTARCTIC REGIONS
NT ROSS ICE SHELF
Forecast verification and reconnaissance data for Southern Hemisphere tropical cyclones
[AD-A130187] 01 p0108 N84-10700
The southern oscillation: Oceanic-atmospheric circulation changes and related rainfall anomalies
[INPE-2903-PRE/420] 02 p0253 N84-11656
Satellite observations of variations in southern hemisphere snow cover
[PB83-252908] 04 p0568 N84-13745
Are Northern Hemisphere tropospheric ozone densities larger?
[INPE-2910-PRE/423] 07 p1031 N84-16691
Blocking in the Southern Hemisphere, during 1975-1979
[INPE-2994-PRE/446] 07 p1032 N84-16696
FGGE level 3-B daily global analyses, part 3
[PB84-135854] 10 p1541 N84-20101
The simulation of transient statistics of the Southern Hemispheric circulation by the GLAS seasonal cycle model: Preliminary results 12 p1855 N84-22082
Teleconnection patterns in the Southern Hemisphere
12 p1855 N84-22084
The impact of scatterometer wind data on global weather forecasting 17 p2720 N84-27314
On the zonally averaged temperature in the Southern Hemisphere
[INPE-3139-PRE/528] 21 p3443 N84-31846
Dynamics and energetics of the South Pacific convergence zone during FGGE SOP-1
24 p3926 N84-34850

SOUTHERN SKY
Photographic surveys of the southern sky
18 p2843 N84-28052

SOVIET SPACECRAFT
NT COSMOS SATELLITES
NT COSMOS 1129 SATELLITE
NT PROGNOZ SATELLITES
NT SALYUT SPACE STATION
NT VENERA SATELLITES
Cosmic October 14 p2112 N84-23659
List of recent Soviet space launches
19 p2978 N84-28880
Results from Astron satellite after one year in orbit
21 p3347 N84-31233
List of recent Soviet space launches
21 p3348 N84-31239
Space activities of the United States, Soviet Union, and other launching countries/organizations, 1957-1983
[GPO-33-265] 23 p3696 N84-33425

SOVIET UNION
U U.S.S.R.

SOYBEANS
An analysis of spectral discrimination between corn and soybeans using a row crop reflectance model
[E84-10008] 01 p0099 N84-10642
Radar remote sensing for crop classification and canopy condition assessment: Ground-data documentation
[E84-10020] 01 p0099 N84-10643
Seasonal soybean crop reflectance
[E84-10049] 04 p0553 N84-13642
Use of microwaves to improve nutritional value of soybeans for future space inhabitants
[NASA-CR-175336] 07 p1051 N84-16805
Center of Excellence for Applied Mathematical and Statistical Research in support of development of multicrop production monitoring capability
[E84-10062] 10 p1520 N84-19953
Argentina soybean yield model
[E84-10102] 12 p1828 N84-21920
Brazil soybean yield covariance model
[E84-10104] 12 p1829 N84-21922

SOYUZ SPACECRAFT
Landing of Soyuz T-9 cosmonauts
12 p1774 N84-21573
Flight director Ryumin on achievements of Soyuz T-9 flight 12 p1774 N84-21574
Main results of medical studies on Salyut-6–Soyuz program 15 p2375 N84-25249
Manned flight chronology 19 p2970 N84-28824
Comments on goals of 'Soyuz T-10' flight
19 p2970 N84-28825
Medical research program of 'Soyuz T-10' crew
19 p2971 N84-28826
Soyuz T-10 docks with 'Salyut-7'
19 p2971 N84-28828
Changes in 'Soyuz T-10' crew work schedule
19 p2971 N84-28829
Docking of 'Progress-19', mapping and survey work
19 p2971 N84-28831
Night landing of 'Soyuz-23' cosmonauts in Lake Tengiz recounted 19 p2972 N84-28837

SPACE
Local recognition of Tits' geometries of classical type
[MC-ZW-197/83] 07 p1065 N84-16910
Evaluation of nickel-hydrogen battery for space application
[NASA-TM-77355] 10 p1528 N84-20012
Representing and acquiring geographic knowledge
[AD-A139308] 14 p2169 N84-23994
Handbook of geophysics and space environments. Chapter 16: Water vapor, precipitation, clouds and fog, revised
[AD-A144176] 24 p3934 N84-34901

SPACE BASED RADAR
RF systems in space. Volume 2: Space-based radar analyses
[AD-A133735] 05 p0668 N84-14394
RF systems in space. Volume 1: Space antennas frequency (SARF) simulation
[AD-A133734] 05 p0668 N84-14395
The effects of aperture antennas after signal propagation through anisotropic ionized media
[AD-A138286] 12 p1807 N84-21781
Clutter cancellation techniques for use in a space-based radar system
[AD-A138467] 12 p1808 N84-21784
Effect of space environment on space-based radar phased-array antenna (A0133) 15 p2271 N84-24638
Phase error effects on the radiation patterns of space-fed planar phased arrays
[AD-P003505] 21 p3384 N84-31473

SPACE BIOLOGY
U EXOBIOLOGY

SPACE CHARGE
SCATHA (Spacecraft charging at high altitudes) environmental atlas
[AD-A131456] 02 p0185 N84-11201
Developing a 500-eV proton beam
[DE83-012781] 03 p0439 N84-12880
Longitudinal space-charge effects in bunched beams
[DE83-017305] 03 p0440 N84-12888
Hole trapping, recombination, and space charge in irradiated Sandia oxides
[DE83-015212] 03 p0454 N84-12986
PATH: A lumped-element beam-transport simulation program with space charge
[DE84-001330] 04 p0599 N84-13953
A large and small signal charge storage model for an enhancement mode M.O.S. field effect transistor
05 p0672 N84-14418

Extraction of volume produced H(-) or D(-) ions from a sheet plasma I
[IPPJ-645] 06 p0919 N84-15974
The effects of space charge on ionic mobility measurements in cylindrical geometries
06 p0922 N84-15993
Virtual cathode oscillations
[AD-A135120] 08 p1228 N84-18027
Preliminary tests of a second harmonic RF system for the intense pulsed neutron source synchrotron
[DE84-003595] 08 p1230 N84-18041
Hysteresis in copolymers of vinylidene fluoride and trifluoroethylene
[AD-A137446] 10 p1466 N84-19577
Dual maxwellian space plasma modeling by the logarithmic method
[AD-A137131] 10 p1585 N84-20387
Choice of IP geometry and beam parameters for the SSC
[DE84-006610] 12 p1903 N84-22390
Design desiderata for a laminar flow quadrupole-focused acceleration column
[DE84-006534] 12 p1903 N84-22395
Improved computer modelling of magnetron injection guns for gyrotrons
[DE84-007536] 15 p2330 N84-24992
Is there a good way to model spacecraft charging in the presence of space-charge coupling, flow and magnetic fields?
[AD-P002102] 16 p2521 N84-26188
Sheath shapes: A 3-D generalization of the Child-Langmuir sheath model for large high-voltage space structures in dense plasmas
[AD-P002124] 16 p2525 N84-26210
Questions that need to be answered
[AD-P002127] 16 p2525 N84-26213
Electrodynamic analysis of active wave-guide slot line based on GaAs 17 p2631 N84-26830
Leakage currents in degraded multi-layer ceramic capacitors
[AD-A140157] 17 p2662 N84-26985
A collective interaction klystron
[AD-A141275] 18 p2834 N84-27991
High-current, low-energy synchrotrons and compressor rings
[DE84-012104] 20 p3293 N84-30906
A 1-dimensional disk model simulation for klystron design
[DE84-013793] 22 p3588 N84-32727
FET charge sensor and voltage probe
[NASA-CASE-NPO-16045-1] 22 p3662 N84-33211
Process Research of Poycrystalline Silicon Material (PROPSM)
[NASA-CR-173934] 23 p3788 N84-34026
High-current betatron, phase 1
[AD-A143748] 23 p3824 N84-34252

SPACE COMMERCIALIZATION
Space commercialization
[GPO-22-870] 01 p0017 N84-10108
Space commercialization
[GPO-26-498] 08 p1107 N84-17194
LANDSAT-4 commercialization update
10 p1523 N84-19974
The commercialization of meteorological and land remote-sensing satellites
[GPO-20-901] 11 p1622 N84-20614
Alternative strategies for space station financing
[NASA-CR-175412] 11 p1752 N84-21437
Space station needs attributes and architectural options study costing working group briefing
[NASA-CR-173517] 15 p2265 N84-24601
Space station needs, attributes and architectural options study. Briefing material, mid-term review
[NASA-CR-173536] 15 p2279 N84-24692
The advisability of competitive international satellites
[AD-A140188] 16 p2456 N84-25750
Opportunities for the chemical industry in space, part 1
[NASA-CR-173594] 16 p2462 N84-25776
Space station needs, attributes, and architectural options: Commercial opportunities in space
[NASA-CR-173698] 18 p2803 N84-27788
A study of space station needs, attributes and architectural options. Midterm briefing, executive summary
[NASA-CR-173446] 18 p2805 N84-27808
Land Remote-Sensing Commercialization Act of 1984
[H-REPT-98-647] 20 p3318 N84-31063
International implications of proposed sale of LANDSAT satellite
[GPO-31-310] 23 p3763 N84-33849
Sale of LANDSAT could adversely affect international relations
[H-REPT-98-1108] 23 p3763 N84-33850
Commercial Space Launch Act
[H-REPT-98-816] 23 p3835 N84-34329
NASA authorization for fiscal year 1985
[GPO-32-363] 24 p3969 N84-35133
Review of the National Aeronautics and Space Act of 1958, as amended
[GPO-38-705] 24 p3970 N84-35134

SPACE COMMUNICATION
NT SPACECRAFT COMMUNICATION
The Telecommunications and Data Acquisition Report
[NASA-CR-174610] 04 p0518 N84-13401
The effects of Reed-Solomon code shortening on the performance of coded telemetry systems
04 p0518 N84-13403
Beam impingement angle effects on secondary electron emission characteristics of textured pyrolytic graphite
[NASA-TP-2285] 09 p1286 N84-18400
Optical scintillation statistics for infrared ground-to-space laser communication systems
[AD-A136607] 09 p1299 N84-18495
Background sources in optical communications
[NASA-CR-173457] 12 p1907 N84-22422
Digital video transmission with reduced frame repetition rate and movement-adapted frame-to-frame interpolation
[AD-B075822] 15 p2316 N84-24915
TDA assessment of recommendations for space data system standards 16 p2479 N84-25898
MMIC technology for advanced space communications systems
[NASA-TM-83749] 20 p3173 N84-30147
The 20 and 30 GHz MMIC technology for future space communication antenna system
[NASA-TM-83745] 21 p3362 N84-31460

SPACE COOLING (BUILDINGS)
Hybrid space heating/cooling system with Trombe wall, underground venting, and assisted heat pump
[DE84-000406] 04 p0559 N84-13686
Using the earth to heat and cool homes
[DE84-007102] 12 p1816 N84-21840
Phase change materials for use in passive and hybrid solar heating and cooling systems
16 p2518 N84-26164
Integrated gas-fired space heating/water heating system with electric air conditioning
[PB84-181999] 20 p3171 N84-30136
Simplified method for estimating the cooling loads of passive solar systems
[DE84-009474] 20 p3235 N84-30538
SLR-PLUS version 1.0 reference manual
[DE84-009180] 20 p3274 N84-30781
Laboratory evaluation of the steady-state and part load performance of absorption type heating and cooling equipment
[PB84-182146] 21 p3376 N84-31426

SPACE DEBRIS
Shuttle launch debris: Sources, consequences, solutions 01 p0019 N84-10124
Space debris impact experiment (S0001)
15 p2277 N84-24672

SPACE DIVERSITY
U RECEPTION DIVERSITY

SPACE ENVIRONMENT
U AEROSPACE ENVIRONMENTS

SPACE ENVIRONMENT SIMULATION
NT WEIGHTLESSNESS SIMULATION
Evaluation and prediction of long-term environmental effects of nonmetallic materials, second phase
[NASA-CR-170915] 02 p0244 N84-11595
The Marshall Space Flight Center Low-Energy Ion Facility: A preliminary report
[NASA-TM-82559] 04 p0596 N84-13933
Laboratory measurement of impact ionization
08 p1118 N84-17271
Development of a modular battery
[BMFT-FB-W-83-021] 08 p1153 N84-17504
Effects of space radiation on advanced semiconductor devices. Part 1: A review of current theories and practice in cosmic ray simulation
[G-2532-VOL-1] 08 p1153 N84-17505
Effects of space radiation on advanced semiconductor devices. Part 2: Cosmic ray simulation experiments for the study of single event upsets in CMOS technology
[G-2745-VOL-2] 08 p1153 N84-17506
A rationale for the testing of space mechanisms
09 p1296 N84-18471
Development of a spacecraft infrared test technique as an alternative to solar simulation: First steps on L-SAT thermal model 10 p1439 N84-19398
Spacecraft thermal balance testing using infrared lamps on a dummy spacecraft 10 p1439 N84-19399
IRSIM: A program for the calculation of infrared flux intensity incident on a spacecraft inside a test chamber
10 p1440 N84-19400
Thermal cycling tests in space environment simulation chambers 10 p1440 N84-19401
Degradation of thermal shield materials in the space radiation environment 10 p1446 N84-19448
Thermal test data analysis — satellite design
10 p1447 N84-19450
Surface property measurement for spacecraft thermal balance testing 10 p1447 N84-19451
The Large Space Simulator (LSS) at ESA/ESTEC (a summary of the main characteristics)
10 p1448 N84-19458
The new space simulation and thermal vacuum facility WSA/TVA 10 p1448 N84-19460
Assessment of the existing ground test technology and confronting with the Large Space Structures (LSS) requirements. Thermal test techniques
12 p1781 N84-21622
Certification vibration tests, SD602 materials experiment
[AD-A138547] 13 p2001 N84-22982
Thermal control coatings experiment (A0138-6)
15 p2273 N84-24847
Diffuser/ejector system for a very high vacuum environment
[NASA-CASE-MRS-25791-1] 18 p2797 N84-27749
Experiments on chemical and physical evolution of interstellar grain mantles 18 p2948 N84-28693
Piecewise simulaton proton test of gallium arsenide and thin silicon solar cells 19 p3045 N84-29317
European Space Tribology Laboratory: Facilities, services, capabilities
[ESA-BR-12] 20 p3199 N84-30317
Testing of coatings in space, Long Duration Exposure Facility (LDEF)
[BMFT-FB-W-84-017] 21 p3353 N84-31269
Failure analysis of nickel-hydrogen cell subjected to simulated low Earth orbit cycling
23 p3740 N84-33703
Development of a thermal environment simulator for large test articles in a vacuum 24 p3861 N84-34469
Main characteristics of the Large Space Simulation (LSS) 24 p3862 N84-34472
Simultaneous thermal vacuum testing of GPS drives for NavStar 24 p3862 N84-34473
Design of an orbital heating simulator using IR techniques 24 p3864 N84-34487
Tape heating method for space simulation testing
24 p3864 N84-34488
Manned maneuvering unit simulations on the Space Operations Simulator 24 p3864 N84-34490
Distortion measurement of antennas under space simulation conditions with high accuracy and high resolution by means of holography
24 p3864 N84-34491
Vibration isolation system for testing in a vacuum
24 p3864 N84-34492
Contamination measurements during IUS thermal vacuum tests in a large space chamber — IUS equipment support system 24 p3865 N84-34496

SPACE ENVIRONMENTAL LUBRICATION
U SPACECRAFT LUBRICATION

SPACE ERECTABLE STRUCTURES
NT INFLATABLE SPACECRAFT
Development of deployable structures for large space platform systems. Volume 1: Executive summary
[NASA-CR-170913] 01 p0028 N84-10175
Development of deployable structures for large space platforms. Volume 2: Design development
[NASA-CR-170914] 01 p0028 N84-10176
Orbiter-based construction equipment study. The HPA/DTA technology advancement plan
[NASA-CR-174605] 05 p0644 N84-14233
Synchronously deployable truss structure
[NASA-CASE-LAR-13117-1] 07 p0964 N84-16250
Erectable beam experiment 08 p1110 N84-17219
The STEP/STACBEAM experiment technology development for very large solar array deployers
08 p1110 N84-17220
Low concentration ratio solar array structural configuration 08 p1111 N84-17225
Development of Test Article Building Block (TABB) for deployable platform systems 08 p1111 N84-17226
A deployable structure and solar array controls experiment for STEP 08 p1111 N84-17227
Shutter interaction study extension
[NASA-CR-173401] 12 p1777 N84-21593
NASA/Howard University Large Space Structures Institute
[NASA-CR-173425] 14 p2244 N84-24476
Megamechanics research Consortium
14 p2244 N84-24477
Design and operation of a deployable truss structure
15 p2347 N84-25082
Technology for large space systems: A bibliography with indexes
[NASA-SP-7046(10)] 16 p2454 N84-25736
Multi-100kW: Planar low cost solar array development
[NASA-CR-171119] 20 p3234 N84-30529

Foldable self-erecting joint — space erectable structures
[NASA-CASE-MSC-20635-1] 22 p3542 N84-32424
Feed displacement correction in a space fed lens antenna
[AD-D011155] 23 p3742 N84-33722
Ground test article for deployable space structure systems
[NASA-CR-171158] 24 p3858 N84-34457

SPACE EXPER WITH PARTICLE ACCELERATORS
U SEPAC (PAYLOAD)

SPACE EXPLORATION
NT VIKING MARS PROGRAM
JPL highlights, 1981
[NASA-CR-174535] 01 p0159 N84-11046
Research and technology at the Lyndon B. Johnson Space Center
[NASA-TM-58257] 05 p0758 N84-14973
Planetary geometry handbook: Venus positional data, 1988 - 2020, volume 2
[NASA-CR-173192] 07 p1091 N84-17096
Planetary geometry handbook: Mars positional data, 1990 - 2020, volume 3
[NASA-CR-173193] 07 p1091 N84-17097
Planetary geometry handbook: Jupiter positional data, 1985 - 2020, volume 4
[NASA-CR-173194] 07 p1091 N84-17098
Planetary geometry handbook: Saturn positional data, 1985 - 2020, volume 5
[NASA-CR-173195] 07 p1091 N84-17099
Research and technology report, 1983
[NASA-TM-85865] 08 p1247 N84-18152
Spaceborne Gravity Gradiometers. Part 2: Role of gravity gradiometers in NASA's programs
09 p1335 N84-18718
Aerospace bibliography, seventh edition
[NASA-TM-85436] 09 p1399 N84-19136
Fifteenth Lunar and Planetary Science Conference. Press Abstracts
[NASA-CR-175409] 11 p1754 N84-21448
Detection of extrasolar planets by the large deployable reflector
[NASA-TM-85674] 11 p1757 N84-21471
Cost estimation model for advanced planetary programs, fourth edition
[NASA-CR-173495] 13 p1936 N84-22590
Advanced planetary studies
[NASA-CR-173496] 13 p1936 N84-22591
Titan exploration with advanced systems. A study of future mission concepts
[NASA-CR-173499] 13 p1936 N84-22593
NASA-Ames Summer High School Apprenticeship Research Program (SHARP)
[NASA-TM-85554] 18 p2943 N84-28661
USSR report: Space
[JPRS-USP-84-003] 19 p2970 N84-28823
Space station 19 p3049 N84-29344
Spinoff, 1984
[NASA-TM-85596] 22 p3676 N84-33305
Aeronautics and space report of the President, 1983 activities
[NASA-TM-85538] 22 p3684 N84-33364
Space activities of the United States, Soviet Union, and other launching countries/organizations, 1957-1983
[GPO-33-265] 23 p3696 N84-33425
Planetary Data Workshop, part 1
[NASA-CP-2343-PT-1] 23 p3841 N84-34366
Planetary data definition 23 p3841 N84-34367
User requirements 23 p3841 N84-34368
Configuration and implementation
23 p3842 N84-34369
Imaging data 23 p3842 N84-34370
Non-imaging remote sensing data
23 p3842 N84-34371
In situ data 23 p3842 N84-34372
Earth-based planetary data 23 p3842 N84-34374
Laboratory 23 p3842 N84-34375
On Mars: Exploration of the red planet, 1958 - 1978
[NASA-SP-4212] 24 p3990 N84-35248
Why Mars? 24 p3990 N84-35249
The search for Martian life begins, 1959 - 1965
24 p3990 N84-35251
Reorganization and creation of Viking
24 p3991 N84-35253

SPACE FLIGHT
NT APOLLO 17 FLIGHT
NT HYPERSONIC REENTRY
NT LONG DURATION SPACE FLIGHT
NT LUNAR FLIGHT
NT MANNED SPACE FLIGHT
NT VIKING MARS PROGRAM
Research and technology, 1983
[NASA-TM-83540] 04 p0615 N84-14061
Experimentally produced biped monkeys as a model for multipurpose research in gravity biology and physiology
07 p1047 N84-16789
Energy balance and the composition of weight loss during prolonged space flight
[NASA-CR-171745] 08 p1199 N84-17820
Mechanisms of gravirperception and response in pea seedlings 09 p1353 N84-18839
Cells, embryos and development in space
09 p1356 N84-18862
Significant NASA inventions available for licensing in foreign countries
[NASA-SP-7039(05)] 09 p1399 N84-19133
Significant NASA inventions available for licensing in foreign countries
[NASA-SP-7039(07)] 09 p1399 N84-19134
National Aeronautics and Space Administration Authorization Act, 1985 11 p1753 N84-21443
National Aeronautics and Space Administration Authorization Act, 1985
[H-REPT-98-629] 11 p1753 N84-21444
Cost estimation model for advanced planetary programs, fourth edition
[NASA-CR-173495] 13 p1936 N84-22590
Free-flyer biostack experiment
15 p2277 N84-24674
Some psychological consequences of prolonged social isolation 15 p2376 N84-25257
Review of book on space radiobiology
15 p2378 N84-25270
NASA, the first 25 years: 1958 - 1983
[NASA-EP-182] 16 p2583 N84-26563
Langley aeronautics and space test highlights, 1983
[NASA-TM-85806] 16 p2583 N84-26564
Night landing of 'Soyuz-23' cosmonauts in Lake Tengiz recounted 19 p2972 N84-28837
Flights to asteroids with space vehicle maneuvers near Venus, Earth, Mars and Jupiter
19 p2973 N84-28844
Proceedings of the Symposium on Mechanics for Space Flight
[ISAS-SP-2] 20 p3168 N84-30114
Reflight certification software design specifications
[NASA-CR-171138] 21 p3465 N84-31966
System analysis for the Huntsville Operational Support Center distributed computer system
[NASA-CR-171136] 22 p3643 N84-33097
Space activities of the United States, Soviet Union, and other launching countries/organizations, 1957-1983
[GPO-33-265] 23 p3696 N84-33425

SPACE FLIGHT FEEDING
Use of microwaves to improve nutritional value of soybeans for future space inhabitants
[NASA-CR-175336] 07 p1051 N84-16805
Evaluation of organic carbon analyzers for space application — for water reclamation
[NASA-CR-171755] 09 p1317 N84-18607
Blood plasma amino acid levels in cosmonauts before and after 175-day mission aboard Salyut-6
15 p2375 N84-25250
Food specialists discuss cosmonaut diet
19 p2971 N84-28835

SPACE FLIGHT STRESS
USSR report: Space Biology and Aerospace Medicine, volume 17, no. 5, September - October 1983
[JPRS-84655] 02 p0259 N84-11693
Free amino acids of blood before and after short-term spaceflights 02 p0260 N84-11702
Evaluation of human blood morphological composition during exercise in sealed chamber with different concentrations of ammonia 07 p1045 N84-16779
Muscle tone changes in individuals of different age groups submitted to simulated weightlessness
12 p1864 N84-22150
A study of stress-free living bone and its application to space flight
[NASA-CR-171786] 16 p2535 N84-26275
Verification of an altitude decompression sickness prevention protocol for Shuttle operations utilizing a 10.s psi pressure stage
[NASA-TM-58259] 18 p2899 N84-28392

SPACE FLIGHT TRAINING
USSR report: Space
[JPRS-USP-84-001] 09 p1263 N84-18247
Cosmonaut training 09 p1264 N84-18250
Beregovoy on cosmonaut training
09 p1264 N84-18251
Spacecraft simulators 09 p1264 N84-18252
Physical training of cosmonauts for intercosmos program missions 23 p3805 N84-34129

SPACE HABITATS
Space Station 23 p3701 N84-33456

SPACE HEATING (BUILDINGS)
Passive-solar performance: Summary of 1981-1982 class B results
[DE83-009407] 03 p0405 N84-12650
Hybrid space heating/cooling system with Trombe wall, underground venting, and assisted heat pump
[DE84-000406] 04 p0559 N84-13686
Measures of nonlinearity for segmented regression models
[AD-A132638] 05 p0740 N84-14864
Thermostatic fine control valves mounted on the radiators in district heating systems
[BMFT-FB-T-83-169] 07 p1012 N84-16568
Late developments in the field of heat recovery
11 p1640 N84-20727
Design guidelines for heating aircraft hangars with radiant heaters
[AD-A138496] 12 p1774 N84-21585
Using the earth to heat and cool homes
[DE84-007102] 12 p1816 N84-21840
Air- versus liquid-based solar-energy systems: A comparison of measured thermal performances
[ANL-83-45] 12 p1838 N84-21978
Economic assessment of nine geothermal direct use applications
[DE84-006475] 12 p1844 N84-22021
Thermal effects resulting from occupant behavior and building operation 16 p2515 N84-26143
Overview of Roof Pond Systems
16 p2516 N84-26150
Computer program for studying turbulent convection in buildings 16 p2517 N84-26155
Advanced optical and thermal technologies for aperture control 16 p2517 N84-26156
Phase change materials for use in passive and hybrid solar heating and cooling systems
16 p2518 N84-26164
Climatology of heating-degree days in the Netherlands during the years 1961-1980
[KNMI-TR-47] 18 p2891 N84-28351
Procedures for acceptance testing of solar energy systems
[AD-A141839] 19 p3051 N84-29359
Integrated gas-fired space heating/water heating system with electric air conditioning
[PB84-181999] 20 p3171 N84-30138
Simplified method for estimating the cooling loads of passive solar systems
[DE84-009474] 20 p3235 N84-30536
Environmental effects of increasing the amount of district heating in the Netherlands
[S/T-REPT-VOL-1-NO-5] 20 p3238 N84-30558
SLR-PLUS version 1.0 reference manual
[DE84-009180] 20 p3274 N84-30781
Laboratory evaluation of the steady-state and part load performance of absorption type heating and cooling equipment
[PB84-182146] 21 p3376 N84-31426
Selected bibliography of solar thermal literature. Volume 2: Indexes
[DE84-009363] 21 p3518 N84-32288
M.A.N. heat pumps in industry and communities, and their efficiency 23 p3747 N84-33755
Hourly values of electricity and heat consumption and electricity supply conditions. Fundamentals of Block Heating Power Station (BHPS) construction — economic aspects 23 p3792 N84-34048
Optimization of the thermodynamic cycles of a collective heating power station 23 p3832 N84-34305
Evaluation of microcomputer energy analysis programs
[AD-A144684] 24 p3942 N84-34959

SPACE INDUSTRIALIZATION
NT SPACE MANUFACTURING
NT SPACE PROCESSING
Policy and legal issues involved in the commercialization of space
[GPO-21-495] 01 p0163 N84-11069
Space commercialization
[GPO-26-498] 08 p1107 N84-17194

SPACE LABORATORIES
Orbiting geophysics laboratory experiment
[AD-A131950] 03 p0342 N84-12218
The Alpha-Helix Concept: Innovative utilization of the Space Station Program. A report to the National Aeronautical and Space Administration requesting establishment of a Sensory Physiology Laboratory on the Space Station
[NASA-CR-175436] 11 p1621 N84-20610
The use of space laboratories for materials investigations, process engineering, and scientific purposes 20 p3133 N84-29895
Practical applications of a space station
[NASA-CR-173672] 21 p3353 N84-31270
Space activities of the United States, Soviet Union, and other launching countries/organizations, 1957-1983
[GPO-33-265] 23 p3696 N84-33425

SPACE LAW
Pravda scores US reaction to draft treaty on use of force in space 09 p1265 N84-18259
International space organizations
09 p1265 N84-18261

Peaceful use and self defense in outer space
[AD-P002155] 14 p2138 N84-23820
SPACE LOGISTICS
Shutter interaction study extension
[NASA-CR-173401] 12 p1777 N84-21593
SPACE MAINTENANCE
Hot melt recharge system — repairing damaged or missing tiles on space shuttle orbiter
[NASA-CASE-LAR-12881-1] 05 p0658 N84-14323
Mechanical fastener
[NASA-CASE-LAR-12738-2] 06 p0795 N84-15180
Preventive maintenance on space systems
[AD-A134955] 08 p1107 N84-17198
An investigation of non-extravehicular activity (Non-EVA) on-orbit maintenance support concepts for orbiting systems
[AD-A134957] 08 p1107 N84-17199
Shuttle interaction study extension
[NASA-CR-173398] 12 p1777 N84-21594
Satellite services handbook. Interface guidelines
[NASA-CR-171774] 12 p1777 N84-21597
Study of robotics systems applications to the space station program
[NASA-CR-173703] 18 p2807 N84-27819
The role of the Shuttle Engineering Simulator in the Solar Max rescue mission 24 p3864 N84-34489
SPACE MANUFACTURING
Commercialization of opportunities for materials processing in low gravity
[NASA-CR-170953] 06 p0793 N84-15165
Design of a project plan for the establishment of a lunar factory
[ILR-MITT-123] 10 p1435 N84-19379
Flight director Ryumin on achievements of Soyuz T-9 flight 12 p1774 N84-21574
A feasibility study of the production of low loss IR fibers in space
[NASA-CR-173430] 14 p2225 N84-24351
Protein single crystal growth under microgravity 23 p3805 N84-34124
SPACE MECHANICS
NT ASTRODYNAMICS
NT CELESTIAL MECHANICS
NT KEPLER LAWS
NT MINIMUM VARIANCE ORBIT DETERMINATION
NT ORBITAL MECHANICS
SPACE MISSIONS
NT INTERNATIONAL SOLAR POLAR MISSION
NT SOLAR MAXIMUM MISSION
NASA's five-year plan
[GPO-27-459] 05 p0757 N84-14964
Space Station needs, attributes and architectural options. Volume 2, book 1, part 1: Mission requirements
[NASA-CR-173312] 09 p1270 N84-18296
Space Station needs, attributes and architectural options. Volume 2, book 1, part 2, task 1: Mission requirements
[NASA-CR-173313] 09 p1270 N84-18297
Benefits from satellite programs cited 12 p1776 N84-21584
Shutter interaction study extension
[NASA-CR-173401] 12 p1777 N84-21593
Comet nucleus sample return mission
[NASA-CR-173501] 13 p1936 N84-22592
Satellite Services Catalog: Tools and equipment
[NASA-TM-85627] 13 p1937 N84-22597
Spacecraft control research at NASA 15 p2266 N84-24604
Space station needs, attributes and architectural options study. Briefing material, mid-term review
[NASA-CR-173536] 15 p2279 N84-24692
Manned geosynchronous mission requirements and systems analysis study extension
[NASA-CR-173547] 15 p2281 N84-24700
Living and working in space. A history of Skylab
[NASA-SP-4208] 16 p2454 N84-25737
Trends in data communication by computer networks in space missions
[INPE-3068-PRE/485] 16 p2545 N84-26338
Status and future application of the RF-propulsion systems RITA including interplanetary missions
[MBB-UR-646-83-O] 16 p2563 N84-26444
Orbiting dynamic compression laboratory
[NASA-CR-173704] 18 p2798 N84-27755
Space Station commercial user development
[NASA-CR-173688] 18 p2798 N84-27756
Interplanetary mission design handbook. Volume 1, part 1: Earth to Venus ballistic mission opportunities, 1991-2005
[NASA-CR-173736] 18 p2801 N84-27779
Space station needs, attributes, and architectural options: Technology development
[NASA-CR-173697] 18 p2803 N84-27789
Space station needs, attributes, and architectural options: Brief analysis
[NASA-CR-173695] 18 p2803 N84-27791
Space station needs, attributes and architectural options: Midterm main briefing
[NASA-CR-173687] 18 p2803 N84-27792
Space station needs, attributes and architectural options: Architectural options and selection
[NASA-CR-173694] 18 p2804 N84-27793
Space station needs, attributes, and architectural options: Mission requirements
[NASA-CR-173693] 18 p2804 N84-27794
Space station needs, attributes and architectural options study. Volume 7-1: Data book. Science and applications missions
[NASA-CR-173702] 18 p2804 N84-27795
A study of space station needs, attributes and architectural options. Volume 1: Executive summary
[NASA-CR-173705] 18 p2805 N84-27803
A study of space station needs, attributes and architectural options. Volume 2: Technical. Book 1: Mission requirements
[NASA-CR-173706] 18 p2805 N84-27804
A study of space station needs, attributes and architectural options. Volume 2: Technical. Book 1: Mission requirements. Appendixes 1 and 2
[NASA-CR-173769] 18 p2805 N84-27805
A study of space station needs, attributes, and architectural options, volume 2, technical. Book 2: Mission implementation concepts
[NASA-CR-173690] 18 p2805 N84-27806
A study of space station needs, attributes and architectural options, volume 2, technical. Book 3: Economic benefits, costs and programmatics
[NASA-CR-173689] 18 p2805 N84-27807
A study of space station needs, attributes and architectural options, midterm briefing
[NASA-CR-173714] 18 p2805 N84-27809
A study of space station needs, attributes and architectural options. Final briefing: Cost working group discussion session
[NASA-CR-173713] 18 p2806 N84-27810
Space station needs, attributes and architectural options. Volume 3, task 1: Mission requirements
[NASA-CR-173712] 18 p2806 N84-27811
Space station needs, attributes and architectural options. Volume 3, attachment 1, task 1: Mission requirements
[NASA-CR-173716] 18 p2806 N84-27812
Space station needs, attributes and architectural options: Study summary
[NASA-CR-173692] 18 p2806 N84-27814
Space station needs, attributes and architectural options: Mission requirements
[NASA-CR-173691] 18 p2806 N84-27817
Space station needs, attributes and architectural options: Midterm review, executive overview
[NASA-CR-173707] 18 p2806 N84-27818
Habitability and human productivity issues confronting the Air Force Space Command
[AD-P003266] 18 p2906 N84-28431
Comments on goals of 'Soyuz T-10' flight 19 p2970 N84-28825
List of recent Soviet space launches 19 p2978 N84-28880
Liquid hydrogen polygeneration system and process
[NASA-CASE-KSC-11304-1] 19 p3001 N84-29017
Space Station Systems Analysis Study. Volume 1: Executive summary, part 1 and 2
[NASA-CR-161590] 21 p3352 N84-31263
Space Station Systems Analysis Study. Volume 2: Program review report
[NASA-CR-161231] 21 p3352 N84-31264
A study of DSN traveling wave maser system reliability 22 p3575 N84-32640
Earth orientation effects on mobile VLBI baselines 22 p3575 N84-32642
Space Station Needs, Attributes and Architectural Options. Contractor orientation briefings
[NASA-CR-173999] 24 p3859 N84-34460
SPACE NAVIGATION
Shuttle ascent GN&C postflight results 01 p0022 N84-10140
Celestial pattern recognition allowing autonomous earth-surface or deep-space positioning
[AD-A138115] 12 p1768 N84-21529
Autonomous navigation of USAF spacecraft
[AD-A139173] 14 p2114 N84-23669
Proceedings of a workshop: Multidisciplinary Use of the Very Long Baseline Array
[NASA-CR-173541] 15 p2336 N84-25034
Rendezvous and docking mission and navigation sensors 24 p3908 N84-34753
SPACE OBSERVATIONS (FROM EARTH)
A search for radio pulsars in the Northern sky: Discovery of a pulsar in a unique binary system 03 p0482 N84-13040
A methodological look at astronomical statistics in the light of unbiased estimation 09 p1411 N84-19229
Post-mission Viking data anaysis
[NASA-CR-173451] 12 p1776 N84-21587
Geology of Maxwell Montes, Venus 13 p2077 N84-23460
Seeing Halley's Comet: A guide for observers in the Northern Hemisphere
[NASA-CR-173604] 16 p2574 N84-26517
Recent ground-based observations of the global properties of the Sun 17 p2779 N84-27844
Planetary Data Workshop, part 1
[NASA-CP-2343-PT-1] 23 p3841 N84-34366
Earth-based planetary data 23 p3842 N84-34374
Spectral characteristics of cosmic ray fluctuations 24 p3993 N84-35269
Joint analysis of the data obtained by detecting the general, muon, and neutron components of cosmic ray intensity on May 7, 1978 24 p3993 N84-35270
SPACE OPERATIONS CENTER (NASA)
Shuttle interaction study
[NASA-CR-173400] 12 p1777 N84-21592
Shutter interaction study extension
[NASA-CR-173401] 12 p1777 N84-21593
Shutter Interaction Study
[NASA-CR-173402] 12 p1777 N84-21595
Shuttle interaction study extension
[NASA-CR-173403] 12 p1777 N84-21596
The Consolidated Space Operations Center (CSOC) communications acquisition
[AD-P002154] 14 p2138 N84-23819
SPACE PERCEPTION
Visual routines
[AD-A133634] 06 p0891 N84-15792
Results of a slant range visibility field test in Munich-Reim
[DFVLR-MITT-83-09] 08 p1102 N84-17169
Design criteria for reducing popping in area-of-interest displays: Preliminary experiments
[AD-A136769] 10 p1430 N84-19351
SPACE PHOTOGRAPHY
U SPACEBORNE PHOTOGRAPHY
SPACE PLASMAS
Saturn's outer magnetosphere
[NASA-TM-85105] 01 p0165 N84-11084
Modeling of modification experiments involving neutral-gas release
[DE83-012785] 02 p0250 N84-11634
Creating unstable velocity-space distributions with barium injections
[DE83-012783] 02 p0250 N84-11635
Charge transfer cross-sections for N V and S III ions interacting with hydrogen atoms in astrophysical plasmas 02 p0307 N84-12014
Theory of hydromagnetic turbulence 03 p0467 N84-13077
Theory of interstellar medium diagnostics 03 p0472 N84-13108
Highlights of the electron beam experiments in space in Japan 05 p0637 N84-14191
Radiating dipole model of interference induced in spacecraft circuitry by surface discharges
[NASA-TP-2240] 07 p0964 N84-16247
Optical, radio and computer simulation studies of the Brazil ionospheric modification experiment of 8 September 1982
[AD-A135143] 08 p1166 N84-17731
Equilibria in strongly magnetized pair plasmas 09 p1407 N84-19191
Research and technology, fiscal year 1983
[NASA-TM-85557] 10 p1592 N84-20434
Theoretical studies of X-ray emission from supernova remnants and other non-equilibrium astrophysical plasmas
[NASA-CR-175394] 10 p1597 N84-20468
Space plasma high-voltage drainage experiment (A0054) 15 p2274 N84-24655
Dilute plasma coupling currents to a high voltage solar array in weak magnetic fields
[NASA-TM-83687] 15 p2283 N84-24708
Gravito-magnetic origin of the temperature of a stellar corona 15 p2421 N84-25545
The interaction of large space structures with the near-Earth environment
[AD-P002115] 16 p2523 N84-26201
High voltage solar array models and Shuttle tile charging
[AD-P002123] 16 p2525 N84-26209
Sheath shapes: A 3-D generalization of the Child-Langmuir sheath model for large high-voltage space structures in dense plasmas
[AD-P002124] 16 p2525 N84-26210

Space systems environmental interactions technology program
[AD-P002125] 18 p2525 N84-26211
Boundary layers in space plasmas: A kinetic model of tangential discontinuities
[AERONOMICA-ACTA-A-280-1984] 18 p2558 N84-26406
Flow of stellar wind past X-radiation source 17 p2645 N84-26920
Applications of spectral methods to turbulent magnetofluids in space and fusion research
[NASA-CR-173665] 17 p2757 N84-27505
Report on the activities of the Space Science Department — ESA
[ESA-SP-1062] 17 p2774 N84-27611
Role of theory in space science
[NASA-CR-173444] 18 p2796 N84-27757
MHD dynamo action in space plasmas
[TRITA-EPP-84-06] 18 p2934 N84-29610
Cosmogony as an extrapolation of magnetospheric research
[NASA-CR-173440] 18 p2953 N84-28720
Further analysis of plasma bursts in high-latitude boundary layer of earth 19 p2973 N84-28847
Some contributions to knowledge of the magnetospheric plasma by ISEE investigators
[NASA-TM-86124] 20 p3301 N84-30962
Studies of X-ray clusters of galaxies/intergalactic plasmas
[NASA-CR-173825] 20 p3319 N84-31068
Pioneer 10 and 11 (Jupiter and Saturn) magnetometer experiment — interaction of a flowing plasma with Titan and the Jovian magnetosphere
[NASA-CR-174006] 24 p3989 N84-35241
Plasma electron analysis: Voyager plasma science experiment
[NASA-TM-85037] 24 p3989 N84-35243

SPACE PLATFORMS
NT EURECA (ESA)
NT SYNCHRONOUS PLATFORMS
A definition of STS accommodations for attached payloads
[NASA-CR-172223] 01 p0018 N84-10114
Development of deployable structures for large space platform systems. Volume 1: Executive summary
[NASA-CR-170913] 01 p0028 N84-10175
Development of deployable structures for large space platforms. Volume 2: Design development
[NASA-CR-170914] 01 p0028 N84-10176
Lightning mapping sensor study
[NASA-CR-170908] 04 p0566 N84-13731
Identification of new potential scientific and technology areas for DoD application. Summary of activities
[AD-A134372] 07 p1084 N84-17050
Development of Test Article Building Block (TABB) for deployable platform systems 08 p1111 N84-17226
A deployable structure and solar array controls experiment for STEP 08 p1111 N84-17227
STEP flight experiments Large Deployable Reflector (LDR) telescope 08 p1112 N84-17231
Flight test of a synthetic aperture radar antenna using STEP 08 p1113 N84-17237
Space Station needs, attributes and architectural options: Summary briefing
[NASA-CR-173328] 09 p1267 N84-18271
Space station needs, attributes and architectural options study. Briefing material: Final review and executive summary
[NASA-CR-173321] 09 p1267 N84-18273
Space Station needs, attributes and architectural options. Volume 2, book 2, part 1: Mission implementation concepts
[NASA-CR-173316] 09 p1270 N84-18300
A large-area gamma-ray imaging telescope system
[NASA-CR-175435] 11 p1620 N84-20604
The Alpha-Helix Concept: Innovative utilization of the Space Station Program. A report to the National Aeronautical and Space Administration requesting establishment of a Sensory Physiology Laboratory on the Space Station
[NASA-CR-175436] 11 p1621 N84-20610
Exhibit D modular design attitude control system study
[NASA-CR-170993] 11 p1623 N84-20625
Conceptual design study. Science and Applications Space Platform (SASP). Final briefing
[NASA-CR-173520] 14 p2114 N84-23670
Second interim briefing (D3). Evolutionary Science and Applications Space Platform. Characterization of concepts, tasks A and B
[NASA-CR-173521] 14 p2115 N84-23671
Advanced Platform Systems Technology study. Volume 2: Trade study and technology selection
[NASA-CR-173522] 14 p2115 N84-23672
Advanced Platform Systems Technology study. Volume 3: Supporting data
[NASA-CR-173523] 14 p2115 N84-23673
The role of onboard intelligence and of orbital servicing in the increase of satellite lifetime 15 p2266 N84-24605
ACOSS eleven (Active Control Of Space Structures), volume 1
[AD-A140025] 15 p2282 N84-24703
ACOSS eleven (Active Control Of Space Structures), volume 2
[AD-A140026] 15 p2282 N84-24704
National Aeronautics and Space Administration 17 p2772 N84-27604
Space station needs, attributes, and architectural options: Mission requirements
[NASA-CR-173693] 18 p2804 N84-27784
A study of space station needs, attributes and architectural options, midterm briefing
[NASA-CR-173714] 18 p2805 N84-27809
Two-phase heat transport system conceptual studies — large space structures
[SABCA-JPM/LN/HO5/N117] 18 p2807 N84-27822
The dynamics and control of large flexible space structures, part 7
[NASA-CR-173781] 19 p2981 N84-28892
The development of a high-capacity instrument module heat transport system, appendixes
[NASA-CR-175260] 22 p3592 N84-32750
A national program for data collection platforms: Information techniques for users
[INPE-3137-NTE/219] 24 p3858 N84-34456

SPACE POWER REACTORS
NT SNAP 8
NT SPACE POWER UNIT REACTORS
Performance demonstration of a high-power space-reactor heat-pipe design
[DE83-012688] 01 p0145 N84-10952
Space reactor preliminary mechanical design
[DE83-012689] 01 p0145 N84-10953
Neutronic and thermal design considerations for heat-pipe reactors
[DE83-012690] 01 p0145 N84-10954
Initial evaluation of molybdenum-rhenium alloy for reactor heat pipes
[DE83-012687] 01 p0145 N84-10955
The space nuclear reactor program
[GPO-22-828] 02 p0185 N84-11204
Space reactor system and subsystem investigations: Assessment of technology issues for the reactor and shield subsystem, SP-100 Program
[DE84-001566] 04 p0603 N84-13979
Space-reactor system and subsystem investigations: Cost and schedule estimates for reactor and shield subsystems technology development. SP-100 program
[DE84-000112] 04 p0603 N84-13984
Space nuclear safety program, April 1983
[DE84-002325] 07 p1074 N84-16978
Space nuclear safety program, May 1983
[DE84-002324] 07 p1074 N84-16979
Space Nuclear Safety Program, March 1983
[DE84-002259] 07 p1074 N84-16981
SP-100 program: Space reactor system and subsystem investigations
[DE84-003217] 08 p1231 N84-18045
An explosive driven shock tube for verifying survival of radioisotope heat sources during space shuttle launch accident 10 p1509 N84-19876
Space reactor shielding: An assessment of the technology
[DE84-003319] 10 p1577 N84-20335
Advanced nickel-hydrogen cell configuration study
[NASA-CR-173417] 13 p1985 N84-22889
Design of a 1-kWh bipolar nickel hydrogen battery
[NASA-TM-83647] 13 p2008 N84-23024
Fuel Systems for compact fast space reactors
[DE84-006545] 14 p2223 N84-24343
Advanced nuclear systems for portable power in space
[PB84-148566] 15 p2365 N84-25191
Charged particle effects on space systems
[AD-P002103] 16 p2522 N84-26189
Space power technology into the 21st Century
[NASA-TM-83690] 17 p2616 N84-26746
Heat pipe technology issues
[DE84-011384] 20 p3187 N84-30248
Some scoping experiments for a space reactor
[DE84-009101] 20 p3298 N84-30941
Space reactor fuels performance and development issues
[DE84-011414] 21 p3497 N84-32164
Refractory alloy technology for space nuclear power applications
[DE84-001745] 21 p3497 N84-32166
Reentry analysis
[DE84-012640] 21 p3498 N84-32167
Thermionic conversion reactor technology assessment
[DE84-007611] 22 p3655 N84-33168
Space reactors: What is a kilogram?
[DE84-012656] 22 p3655 N84-33169

SPACE POWER UNIT REACTORS
Space reactors: Past, present and future
[DE83-011177] 03 p0437 N84-12870

SPACE PROBES
NT GALILEO SPACECRAFT
NT GIOTTO MISSION
NT HELIOS A
NT HELIOS B
NT HELIOS 1
NT HELIOS 2
NT MARINER SPACE PROBES
NT MARINER 4 SPACE PROBE
NT MARINER 9 SPACE PROBE
NT MARINER 10 SPACE PROBE
NT MARS PROBES
NT PIONEER SPACE PROBES
NT PIONEER 10 SPACE PROBE
NT PIONEER 11 SPACE PROBE
NT VENERA SATELLITES
NT VENUS PROBES
NT VIKING MARS PROGRAM
NT VIKING SPACECRAFT
Titan exploration with advanced systems. A study of future mission concepts
[NASA-CR-173499] 13 p1936 N84-22593
Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-15429-1] 13 p1939 N84-22609

SPACE PROCESSING
Studies of convection in a solidifying binary mixture at reduced gravity
[NASA-CR-170916] 02 p0190 N84-11231
Materials processing in space program tasks-supplement
[NASA-TM-82548] 03 p0338 N84-12196
Potential means of support for materials processing in space. A history of government support for new technology
[NASA-TM-82554] 04 p0488 N84-13205
Microgravity silicon zoning investigation
[NASA-CR-170919] 04 p0488 N84-13207
Danish crystal-growth experiment aboard Spacelab 05 p0634 N84-14171
Significant scientific and technical results at Marshal Space Flight Center
[NASA-TM-82562] 06 p0935 N84-16075
Dispersion alloys TEXUS-Experiments: TEXUS-01 B TEXUS 7, TEM-01 B — microgravity processing
[NASA-TM-77531] 07 p0973 N84-16308
High gradient directional solidification furnace — for space processing
[NASA-CASE-MFS-25963-1] 07 p1007 N84-16531
The control of float zone interfaces by the use of selected boundary conditions
[NASA-CR-170959] 07 p1079 N84-17017
Review of materials processing in space, 1983
[GPO-27-914] 08 p1107 N84-17193
NBS (National Bureau of Standards): Materials measurements — space processing experiments
[NASA-CR-173162] 08 p1136 N84-17384
Public announcement of flight opportunity for materials science experiments on the Spacelab Mission D1: Extract
[NASA-TM-77277] 10 p1434 N84-19378
Manufacturing in space: Fluid dynamics numerical analysis
[NASA-CR-175401] 10 p1491 N84-19748
Terrestrial whisker growth experiments which anticipate some special effects of a space station environment
[NASA-CR-175440] 11 p1627 N84-20647
Lyakhov and Aleksandrov work with Pion experiment on Salyut-7 12 p1774 N84-21567
Cosmonauts evaluate color results from Elektrotopograf experiment 12 p1774 N84-21569
Certification vibration tests, SD802 materials experiment
[AD-A138547] 13 p2001 N84-22962
Space station needs attributes and architectural options study costing working group briefing
[NASA-CR-173517] 15 p2265 N84-24601
Space processing applications rocket project. SPAR 8
[NASA-TM-82578] 16 p2455 N84-25745
Opportunities for the chemical industry in space, part 1
[NASA-CR-173594] 16 p2462 N84-25776
Space results on the solidification of immiscible alloys 17 p2612 N84-26722
Influences affecting separation in monotectic alloys under microgravity 17 p2612 N84-26723
First results of a MAUS experiment to investigate the stability of a metallic dispersion 17 p2612 N84-26724

Project Explorer: Get Away Special #007 --- alloy solidification, seed germination, crystal growth, and radio transmission of payload data 18 p2800 N84-27773
The G-002 JUFO-1 payload: Its objectives and results 18 p2801 N84-27776
Space station needs, attributes and architectural options study. Volume 7-2: Data book. Commercial missions [NASA-CR-173719] 18 p2804 N84-27797
Crystal growth of device quality GaAs in space [NASA-CR-173749] 18 p2935 N84-28613
MEA/A-1 experiment 81F01 conducted on STS-7 flight, June 1983. Containerless processing of glass forming melts [NASA-CR-171048] 19 p2997 N84-28993
Microgravity Science Applications Bibliography: 1984 revision [NASA-TM-86651] 21 p3518 N84-32283
Development of the sonic pump levitation [NASA-CR-161963] 22 p3592 N84-32749
Directional solidification of Al2-Cu-Al and Al3-Ni-Al eutectics during TEXUS rocket flight [NASA-TM-77552] 24 p3883 N84-34602

SPACE PROCESSING APPLICATIONS ROCKET
Space Processing Applications Rocket (SPAR) project SPAR 7 [NASA-TM-82535] 01 p0018 N84-10112
Space Processing Applications Rocket (SPAR) project, SPAR 9 [NASA-TM-82549] 08 p1113 N84-17239
Space processing applications rocket project. SPAR 8 [NASA-TM-82578] 16 p2455 N84-25745

SPACE PROGRAMS
NT BRAZILIAN SPACE PROGRAM
NT CANADIAN SPACE PROGRAMS
NT EUROPEAN SPACE PROGRAMS
NT FRENCH SPACE PROGRAMS
NT JAPANESE SPACE PROGRAM
NT SURVEYOR PROJECT
NT U.S.S.R. SPACE PROGRAM
Aeronautics and space report of the President, 1982 activities [NASA-TM-85454] 01 p0166 N84-11093
Operational applications of military test ranges in space transportation system programs [AD-A132535] 04 p0490 N84-13217
Chicago Meets Outer Space program [NASA-TM-85492] 06 p0927 N84-16021
UNISPACE-82: Recommendations addressed to member states on the development of indigenous capabilities and follow-up actions for their implementation [INPE-2915-PRE/427] 07 p1087 N84-17071
The national space program from the fifties into the eighties [AD-A134799] 08 p1107 N84-17197
Review of the National Aeronautics and Space Act of 1958 [GPO-28-915] 11 p1753 N84-21442
Space Nuclear Safety Program, September 1983 [DE84-007989] 14 p2224 N84-24344
Components selection, procurement and control for ESA spacecraft and associated equipment [ESA-PSS-01-60-ISSUE-1] 16 p2458 N84-25760
ESA preferred parts list [ESA-PSS-01-603-ISSUE-1] 16 p2475 N84-25669
Analysis of the acquisition costs of uniquely-built spacecraft versus multi-mission modular spacecraft surrogates for the military space program of the 1970's [AD-A141120] 19 p3114 N84-29785
Space nuclear safety program [DE84-011015] 20 p3298 N84-30943
Space research in Pakistan: A relentless pursuit 21 p3346 N84-31227
Space activities of the United States, Soviet Union, and other launching countries/organizations, 1957-1983 [GPO-33-265] 23 p3696 N84-33425

SPACE RADIATION
U EXTRATERRESTRIAL RADIATION

SPACE RADIATORS
U SPACECRAFT RADIATORS

SPACE RENDEZVOUS
NT EARTH ORBITAL RENDEZVOUS
NT ORBITAL RENDEZVOUS
Development of an autonomous video rendezvous and docking system, phase 3 [NASA-CR-170969] 08 p1115 N84-17249
Apparatus for releasably connecting first and second objects in predetermined space relationship [NASA-CASE-MSC-18969-1] 13 p1938 N84-22605
Guidance and Control Techniques for Advanced Space Vehicles [AGARD-CP-350] 15 p2265 N84-24603
Multifunction spacecraft attitude estimation and navigation system 15 p2267 N84-24611
Docking mechanism for in-orbit assembly and spacecraft servicing 15 p2267 N84-24614
Rotatable electric cable connecting system [NASA-CASE-GSC-12899-1] 19 p3011 N84-29085

SPACE SCIENCES
U AEROSPACE SCIENCES

SPACE SHUTTLE BOOSTERS
Shuttle booster separation aerodynamics 01 p0019 N84-10123
Test Report for MSFC Test No. 83-2: Pressure scaled water impact test of a 12.5 inch diameter model of the Space Shuttle solid rocket booster filament wound case and external TVC PCD [NASA-CR-170901] 01 p0029 N84-10181
Space Shuttle external interference heating test [AD-A131688] 03 p0341 N84-12215
Air monitoring techniques for space shuttle launches Vandenberg Air Force Base [AD-A132956] 05 p0700 N84-14593
USAF Space Shuttle dispersion modelling [AD-A132957] 05 p0700 N84-14594
Preflight transient dynamic analyses of B-52 aircraft carrying Space Shuttle solid rocket booster drop-test vehicle [NASA-TM-84925] 06 p0858 N84-15588
Dynamic assessment of B-52B-008 carrier aircraft for the revised Space Shuttle solid rocket booster decelerator subsystem drop test vehicle [NASA-CR-170989] 12 p1779 N84-21606
Pretest plan for a quarter scale AFT segment of the SRB filament wound case in the NSWC hydroballistics facility — space shuttle boosters [NASA-CR-171028] 15 p2281 N84-24699
Water impact test of aft skirt end ring, and mid ring segments of the Space Shuttle Solid Rocket Booster [NASA-CR-171027] 16 p2457 N84-25752
Space Shuttle with rail system and aft thrust structure securing solid rocket boosters to external tank [NASA-CASE-MFS-25853-1] 18 p2802 N84-27784

SPACE SHUTTLE MAIN ENGINE
In-house welding studies supporting the prelaunch assessment of the STS-6 main engines [NASA-TM-82552] 02 p0229 N84-11499
The SSME seal test program: Leakage tests for helically-grooved seals [NASA-CR-170921] 03 p0383 N84-12495
Linear and nonlinear aspects of rotordynamics 06 p0929 N84-16034
Design study of magnetic eddy-current vibration suppression dampers for application to cryogenic turbomachinery [NASA-CR-173273] 07 p1012 N84-16562
SSME structural dynamic model development [NASA-CR-170960] 08 p1121 N84-17287
Rotordynamic characteristics of the HPOTP (High Pressure Oxygen Turbopump) of the SSME (Space Shuttle Main Engine) [NASA-CR-170987] 10 p1438 N84-19369
Low loss injector for Space Shuttle main engine. Center director's discretionary fund [NASA-TM-82567] 10 p1450 N84-19469
Flow processes in overexpanded chemical rocket nozzles. Part 1: Flow separation [NASA-TM-77396] 10 p1450 N84-19470
Flow processes in overexpanded chemical rocket nozzles. Part 2: Side loads due to asymmetric separation [NASA-TM-77395] 10 p1450 N84-19471
High pressure oxygen turbopump bearing cage stability analyses — space shuttle main engine [NASA-CR-170991] 10 p1502 N84-19815
SSME interstage seal research [NASA-CR-170995] 11 p1624 N84-20631
Space Shuttle main engine powerhead structural modeling, stress and fatigue life analysis. Volume 1: Gasdynamic environment of the SSME HPFTP and HPOTP turbines [NASA-CR-170999] 11 p1625 N84-20635
Space Shuttle main engine powerhead structural modeling, stress and fatigue life analysis. Volume 2: Dynamics of blades and nozzles SSME HPFTP and HPOTP [NASA-CR-171000] 11 p1625 N84-20636
Space Shuttle main engine powerhead structural modeling, stress and fatigue life analysis. Volume 3: Stress summay of blades and nozzles at FPL and 115 percent RPL loads. SSME HPFTP and HPOTP blades and nozzles [NASA-CR-171001] 11 p1625 N84-20637
A study of pump cavitation damage — space shuttle main engine high pressure oxidizer turbopump [NASA-CR-170992] 11 p1652 N84-20783
Space shuttle main engine turbopump transducer [AD-P002680] 11 p1658 N84-20817
Measurements of elastohydrodynamic film thickness, wear and tempering behavior of high pressure oxygen turbopump bearings [NASA-CR-171008] 13 p1997 N84-22960
Bearing tester data compilation, analysis and reporting and bearing math modeling, volume 1 [NASA-CR-171039] 15 p2340 N84-25048
Analysis of SSME HPOTP rotordynamics subsynchronous whirl [NASA-CR-171094] 19 p2983 N84-28600
The 1984 JANNAF Propulsion Meeting, volume 1 [AD-A142652] 20 p3135 N84-29906
Shuttle orbiter main propulsion system hardware development and certification for flight 20 p3135 N84-29907
SSME modifications for on-demand launch vehicles 20 p3136 N84-29914
Techniques for fatigue life predictions from measured strains [NASA-CR-171118] 20 p3201 N84-30334
Computational fluid mechanics utilizing the variational principle of modeling damping seals [NASA-CR-171114] 21 p3398 N84-31553
Research pressure instrumentation for NASA Space Shuttle main engine, modification no. 5 [NASA-CR-171122] 21 p3404 N84-31594
Research pressure instrumentation for NASA Space Shuttle main engine, modification no. 5 [NASA-CR-173660] 21 p3405 N84-31596
Research study of pressure instrumentation [NASA-CR-171143] 21 p3405 N84-31599
Research pressure instrumentation for NASA Space Shuttle main engine, modification no. 6 [NASA-CR-171126] 22 p3597 N84-32780
Research pressure instrumentation for NASA Space Shuttle main engine, modification no. 5 [NASA-CR-171125] 22 p3597 N84-32781
Research pressure instrumentation for NASA Space Shuttle main engine, modification no. 5 [NASA-CR-171126] 22 p3622 N84-32949
Research pressure instrumentation for NASA Space Shuttle main engine [NASA-CR-173932] 23 p3702 N84-33463
A comparison of experimental and theoretical results for leakage, pressure distribution, and rotordynamic coefficients for annular gas seals [NASA-CR-174000] 24 p3910 N84-34765

SPACE SHUTTLE ORBITAL FLIGHT TEST 1
U SPACE TRANSPORTATION SYSTEM 1 FLIGHT

SPACE SHUTTLE ORBITAL FLIGHT TEST 2
U SPACE TRANSPORTATION SYSTEM 2 FLIGHT

SPACE SHUTTLE ORBITAL FLIGHT TEST 3
U SPACE TRANSPORTATION SYSTEM 3 FLIGHT

SPACE SHUTTLE ORBITAL FLIGHT TEST 4
U SPACE TRANSPORTATION SYSTEM 4 FLIGHT

SPACE SHUTTLE ORBITAL FLIGHT TESTS
U SPACE TRANSPORTATION SYSTEM FLIGHTS

SPACE SHUTTLE ORBITAL FLIGHT 7
U SPACE TRANSPORTATION SYSTEM 7 FLIGHT

SPACE SHUTTLE ORBITAL FLIGHT 8
U SPACE TRANSPORTATION SYSTEM 8 FLIGHT

SPACE SHUTTLE ORBITAL FLIGHT 9
U SPACE TRANSPORTATION SYSTEM 9 FLIGHT

SPACE SHUTTLE ORBITAL FLIGHT 11
U SPACE TRANSPORTATION SYSTEM 11 FLIGHT

SPACE SHUTTLE ORBITAL FLIGHTS
U SPACE TRANSPORTATION SYSTEM FLIGHTS

SPACE SHUTTLE ORBITERS
Apparatus analysis and preliminary design of low gravity porous solids experiment for STS Orbiter mid-deck [NASA-CR-168248] 01 p0017 N84-10109
Space shuttle orbiter venting: Lessons learned 01 p0020 N84-10126
Space shuttle entry longitudinal aerodynamic comparisons of flights 1-4 with preflight predictions 01 p0020 N84-10128
A review of preflight estimates of real-gas effects on space shuttle aerodynamic characteristics 01 p0020 N84-10129
Explanation of the hypersonic longitudinal stability problem: Lessons learned 01 p0021 N84-10130
Space shuttle orbiter reaction control subsystem flight data anomalies 01 p0021 N84-10131
Approach to establishing the effect of aeroelasticity on aerodynamic characteristics of the space shuttle orbiter 01 p0021 N84-10133
Minimum testing of the space shuttle orbiter for stability and control derivatives 01 p0021 N84-10134
Catalytic surface effects on space thermal protection system during Earth entry of flights STS-2 through STS-5 01 p0024 N84-10152
Orbiter catalytic/noncatalytic heat transfer as evidenced by heating to contaminated surfaces on STS-2 and STS-3 01 p0024 N84-10153
A review of nonequilibrium effects and surface catalysis on shuttle heating 01 p0024 N84-10154

Filler bar heating due to stepped tiles in the shuttle orbiter thermal protection system 01 p0024 N84-10155

Leeward centerline and side fuselage entry heating predictions for the space shuttle orbiter 01 p0025 N84-10156

Space shuttle orbiter reusable surface insulation flight results 01 p0025 N84-10157

Lessons learned from the development and manufacture of ceramic reusable surface insulation materials for the space shuttle orbiters 01 p0025 N84-10158

Life considerations of the shuttle orbiter densified-tile thermal protection system 01 p0025 N84-10159

Shuttle TPS thermal performance and analysis methodology 01 p0025 N84-10160

Space shuttle orbiter leading-edge flight performance compared to design goals 01 p0025 N84-10161

The development of aerodynamic uncertainties for the space shuttle orbiter 01 p0026 N84-10164

The calibration and flight test performance of the space shuttle orbiter air data system 01 p0026 N84-10165

Shuttle flight pressure instrumentation: Experience and lessons for the future 01 p0026 N84-10167

AFFTC overview of orbiter-reentry flight-test results 01 p0027 N84-10169

Flying the orbiter in the approach/landing phase 01 p0027 N84-10170

A generalized solution technique for the parabolized Navier-Stokes equations 02 p0173 N84-11137

Analytical prediction of aerothermal environment in a wing-elevon cove — space shuttle orbiter
[NASA-TM-85711] 03 p0370 N84-12412

Evaluation of non-intrusive flow measurement techniques for a re-entry flight experiment
[NASA-CR-172142] 04 p0469 N84-13212

Orbiter-based construction equipment study. The HPA/DTA technology advancement plan
[NASA-CR-174605] 05 p0644 N84-14233

Hot melt recharge system — repairing damaged or missing tiles on space shuttle orbiter
[NASA-CASE-LAR-12861-1] 05 p0656 N84-14323

Engineering evaluations and studies. Volume 1: Exhibit A
[NASA-CR-171724] 06 p0794 N84-15174

Shuttle on-orbit dynamics 08 p1110 N84-17216

In-flight load testing of advanced shuttle thermal protection systems
[NASA-TM-86024] 08 p1115 N84-17250

Interaction of the space shuttle orbiter with the ionospheric plasma 08 p1117 N84-17265

Space Shuttle Orbiter rudder/speed brake actuation system 09 p1295 N84-18461

The Spacelab Atmosphere Storage and Control Section (ASCS) and its orbiter common hardware flight performance 10 p1443 N84-19427

Spacelab/Orbiter atmosphere revitalization subsystem commonality and flight experience 10 p1443 N84-19428

The complementary roles of existing and advanced environmental, thermal control and life support technology for space stations 10 p1443 N84-19429

Three-dimensional nonequilibrium viscous shock-layer flow over the Space Shuttle orbiter 13 p1925 N84-22530

Pre-stressed thermal protection systems
[NASA-CASE-MSC-20254-1] 13 p1938 N84-22601

Atmospheric turbulence simulation for Shuttle orbiter
[NASA-CR-171013] 13 p1938 N84-22602

Constant force friction damper
[NASA-CASE-MSC-20505-1] 13 p1939 N84-22611

Department of Housing and Urban Development-Independent Agencies Appropriations Bill, 1985
[S-REPT-98-506] 16 p2568 N84-26476

National Aeronautics and Space Administration 16 p2568 N84-26477

National Aeronautics and Space Administration 17 p2772 N84-27604

Space Shuttle with rail system and aft thrust structure securing solid rocket boosters to external tank
[NASA-CASE-MFS-25853-1] 18 p2802 N84-27784

Shell tile thermal protection system
[NASA-CASE-LAR-12862-1] 18 p2817 N84-27886

Space Shuttle Orbiter improved auxiliary power unit 20 p3144 N84-29965

Viscous computation of a space shuttle flow field
[NASA-TM-85977] 20 p3183 N84-30225

Aerothermodynamic data base, phase C
[NASA-CR-173682] 21 p3351 N84-31259

Results of the AFRSI detailed-environment test of the 0.035-scale SSV pressure-loads model 84-0 in the Ames 11x11 ft. TWT and the Lewis 8x6 ft. and 10x10 ft. SWT (OA-310A, B, C), volume 2
[NASA-CR-167686] 21 p3351 N84-31260

Results of the AFRSI detailed-environment test of the 0.035-scale SSV pressure-loads model 84-0 in the Ames 11x11 ft. TWT and the Lewis 8x6 ft. and 10x10 ft. SWT (OA-310A, B, C), volume 1
[NASA-CR-167685] 21 p3352 N84-31261

Aerothermal loads analysis for high speed flow over a quilted surface configuration
[NASA-TM-86280] 21 p3399 N84-31580

A study of leeside flow field heat transfer on Shuttle Orbiter configuration
[NASA-CR-172362] 22 p3540 N84-32410

Study on the perturbation of lunar and planetary orbiters
[MATRA-CMT-RT005] 23 p3697 N84-33429

Advanced strain-isolation-pad material with bonded fibrous construction
[NASA-CR-166599] 23 p3723 N84-33592

Space Shuttle AFRSI OMS pod environment test using model 81-0 test fixture in the Ames Research Center 9x7-foot supersonic wind tunnel (OS-314A/B/C)
[NASA-CR-167689] 24 p3860 N84-34484

Ground test challenges in the development of the Space Shuttle orbiter auxiliary power unit 24 p3862 N84-34478

Contamination control and cleanliness level integrity for the Space Shuttle Orbiter PLB, payloads and facilities at KSC 24 p3865 N84-34498

SPACE SHUTTLE PAYLOADS

NT ATMOSPHERIC GENERAL CIRCULATION EXPERIMENT
NT EARTH RADIATION BUDGET EXPERIMENT
NT HALOGEN OCCULTATION EXPERIMENT
NT OSS-1 PAYLOAD
NT OSTA-1 PAYLOAD
NT SPACEBORNE EXPERIMENTS
NT SPACELAB
NT X RAY ASTROPHYSICS FACILITY

A definition of STS accommodations for attached payloads
[NASA-CR-172223] 01 p0018 N84-10114

Molecular contamination math model support
[NASA-CR-170699] 01 p0028 N84-10174

Shuttle measured contaminant environment and modeling for payloads. Preliminary assessment of the space telescope environment in the shuttle bay
[NASA-TM-85111] 03 p0341 N84-12216

Performance of antennas in plasma 03 p0365 N84-12377

Baffle system employing reflective surfaces
[NASA-TM-84406] 04 p0604 N84-13985

Electron beam experiments aboard the Space Shuttle 05 p0638 N84-14195

Development, production and testing of the primary structure for the Shuttle Pallet Satellite (SPAS-01)
[MBB-UR-560-82-OE] 05 p0642 N84-14227

Engineering evaluations and studies. Volume 2: Exhibit B, part 1
[NASA-CR-171725] 06 p0794 N84-15175

41-B tenth Space Shuttle mission
[NASA-NEWS-RELEASE-84-4] 07 p0963 N84-16241

Shuttle Imaging Radar: A/B sensors 07 p0967 N84-16395

Slotted waveguide array antennas for spaceborne SAR applications 07 p0967 N84-16397

Shuttle on-orbit dynamics 08 p1110 N84-17216

General requirements for Shuttle flight experiments 08 p1110 N84-17221

Effects of combined ultraviolet and oxygen plasma environment on spacecraft thermal control materials — space shuttle payloads 10 p1446 N84-19449

Shuttle flight test of an advanced gamma-ray detection system
[AD-A136681] 10 p1496 N84-19789

Acoustic environments for JPL shuttle payloads based on early flight data 10 p1512 N84-19898

A large-area gamma-ray imaging telescope system
[NASA-CR-175435] 11 p1620 N84-20604

On-orbit spacecraft/stage servicing during STS life cycle
[NASA-CR-171775] 11 p1622 N84-20617

Flexible radiator system
[NASA-CR-171765] 11 p1623 N84-20623

Feasibility of remotely manipulated welding in space. A step in the development of novel joining technologies
[NASA-CR-175437] 11 p1664 N84-20857

Alternative strategies for space station financing
[NASA-CR-175412] 11 p1752 N84-21437

Research in space physics at the University of Iowa, 1982
[NASA-CR-175411] 11 p1754 N84-21447

Shuttle interaction study
[NASA-CR-173400] 12 p1777 N84-21592

Shutter Interaction Study
[NASA-CR-173402] 12 p1777 N84-21595

Shuttle interaction study extension
[NASA-CR-173403] 12 p1777 N84-21596

Desktop computer graphics for RMS/payload handling flight design 12 p1871 N84-22196

Infrared emission associated with chemical reactions on Shuttle and SIRTF surfaces
[NASA-TM-85875] 12 p1921 N84-22515

Advanced planetary studies
[NASA-CR-173496] 13 p1936 N84-22591

Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-1] 13 p1939 N84-22612

Operational update to the RCS flow field of the space shuttle orbiter 13 p1942 N84-22626

Acoustic environmental accuracy requirements for response determination
[NASA-CR-171003] 13 p2039 N84-23234

Preliminary design of two Space Shuttle fluid physics experiments
[NASA-CR-174649] 14 p2114 N84-23667

Second interim briefing (D3). Evolutionary Science and Applications Space Platform. Characterization of concepts, tasks A and B
[NASA-CR-173521] 14 p2115 N84-23671

Mission operations impact of specific shuttle vehicle improvements
[AD-P002152] 14 p2138 N84-23817

Effects of chemical releases by the STS-3 Orbiter on the ionosphere
[NASA-CR-171032] 15 p2367 N84-25204

Evaluation of SIR-A (Shuttle Imaging Radar) images from the Tres Marias region (Minas Gerais State, Brazil) using derived spatial features and registration with MSS-LANDSAT images
[E84-10148] 16 p2508 N84-26096

Electron beam experiments and other observations from STS-3
[AD-P002106] 16 p2522 N84-26192

An experiment proposed and set up by the readers will be flying on board the Shuttle; these are the rules of the game; the experiments of others
[NASA-TM-77102] 17 p2612 N84-26718

Project SERGE: Brazil referential field data for the SIR-A experiment
[INPE-2973-NTE/210] 17 p2711 N84-27259

Spacescapes/payloads for the arts: Administrative and technical aspects of the New Wave Ruby Falls Get Away Special Project are reviewed in perspective 18 p2799 N84-27762

Modular and standardized GAS payload hardware 18 p2799 N84-27765

Marshall Amateur Club experiment (MARCE) 18 p2800 N84-27767

Nuclear particle detection using a track-recording solid 18 p2800 N84-27769

Design and development of Shuttle Get-Away-Special experiment G-0074 — off-load capability for a full-tank propellant acquisition system 18 p2800 N84-27770

An investigation of the phototropic effect on seedling orientation in a microgravity environment: A student involvement project — radish germination 18 p2800 N84-27771

Laboratory discharge studies of a 6 V alkaline lantern-type battery Eveready Energizer no. 528, under various ambient temperatures (-15 deg C and + 22 deg C) and loads (30 omega and 60 omega) 18 p2800 N84-27772

Project Explorer: Get Away Special #007 — alloy solidification, seed germination, crystal growth, and radio transmission of payload data 18 p2800 N84-27773

G-38, 39 and 40: An artist's exploration of space — using the space environment to create orbiting sphere configurations 18 p2801 N84-27774

A versatile structure for GAS payloads 18 p2801 N84-27775

The G-002 JUFO-1 payload: Its objectives and results 18 p2801 N84-27776

Ultralight reactive metal foams produced as structural shapes in space: System design 18 p2801 N84-27777

An extreme ultraviolet spectrometer experiment for the Shuttle Get Away Special Program 18 p2801 N84-27778

Space station needs, attributes and architectural options study
[NASA-CR-173699] 18 p2804 N84-27798

The ASTRO-1 preliminary design review coupled load analysis
[NASA-TM-82587] 19 p3034 N84-29246

BRESEX: On board supervision, basic architecture and preliminary aspects for payload and space shuttle interface
[NASA-CR-173673] 21 p3353 N84-31271

Space reactor fuels performance and development issues
[DE84-011414] 21 p3497 N84-32164
Transient response dynamic module modifications to include static and kinetic friction effects
22 p3610 N84-32872
Inertial energy storage for spacecraft
23 p3735 N84-33869
Pinhole/coronograph pointing control system integration and noise reduction analysis
[NASA-CR-171152] 23 p3750 N84-33773
Comparative geologic analysis of LANDSAT and Schuttle Imaging Radar (SIR)-A images of the Adrar des Iforas area in NE Mali 23 p3769 N84-33895
Compact receivers for Shuttle Imaging Radar (SIR)-B SAR mission 23 p3778 N84-33953
Simulation of Shuttle Imaging Radar (SIR)-B imagery over Freiburg test site 23 p3779 N84-33958
Concept and design studies for the exploration of high energy gamma ray astronomy on the Gamma Ray Observatory 23 p3838 N84-34346
Contamination control and cleanliness level integrity for the Space Shuttle Orbiter PLB, payloads and facilities at KSC 24 p3865 N84-34498
Fundamentals of Alloy Solidification Applied to Industrial Processes
[NASA-CP-2337] 24 p3881 N84-34589
Lightning observations from the Space Shuttle
24 p3928 N84-34862
Sensor studies and space flight opportunities
24 p3933 N84-34896

SPACE SHUTTLE UPPER STAGE D
Phase A study for a test satellite for propagation and transmission experiments in the 20/30 GHz frequency band
[BMFT-FB-W-83-009] 03 p0362 N84-12355

SPACE SHUTTLE UPPER STAGES
NT SPACE SHUTTLE UPPER STAGE D

SPACE SHUTTLES
Shuttle Performance: Lessons Learned, part 1
[NASA-CP-2283-PT-1] 01 p0018 N84-10115
Plume base flow simulation technology
01 p0018 N84-10116
Launch vehicle aerodynamic data base development comparison with flight data 01 p0018 N84-10117
Space shuttle launch vehicle aerodynamic uncertainties: Lessons learned 01 p0019 N84-10118
Launch vehicle aerodynamic flight test results
01 p0019 N84-10119
Aerodynamic analysis of the loft anomaly observed on orbital flight tests of the space shuttle
01 p0019 N84-10120
Techniques for assessment of ascent aerodynamic characteristics of the space shuttle launch system
01 p0019 N84-10121
Supersonic loads due to shuttle-orbiter/external-tank attachment structures 01 p0019 N84-10122
Shuttle launch debris: Sources, consequences, solutions 01 p0019 N84-10124
Ascent air data system results from the space shuttle flight test program 01 p0020 N84-10125
Stability and control over the supersonic and hypersonic speed range 01 p0021 N84-10135
Predicted and flight test results of the performance, stability and control of the space shuttle from reentry to landing 01 p0022 N84-10136
Lateral-directional stability investigation of the space shuttle orbiter at Mach 6 01 p0022 N84-10137
Aerodynamic coefficient identification package dynamic data accuracy determinations: Lessons learned
01 p0022 N84-10138
Remotely driven model control surfaces for efficient wind-tunnel operations 01 p0022 N84-10139
Shuttle ascent GN&C postflight results
01 p0022 N84-10140
The application of aerodynamic uncertainties in the design of the entry trajectory and flight control system of the space shuttle orbiter 01 p0022 N84-10141
Space shuttle descent flight control design requirements and experiments Learned, Pt. 1 p 617-628
01 p0022 N84-10142
Approach and landing characteristics of the space shuttle orbiter Learned, Pt. 1 p 637-651
01 p0023 N84-10143
Shuttle Performance: Lessons Learned, part 2
[NASA-CP-2283-PT-2] 01 p0023 N84-10144
Calculation of shuttle base heating environments and comparison with flight data 01 p0023 N84-10145
Trends in shuttle entry heating from the correction of flight test maneuvers 01 p0023 N84-10146
Flight test derived heating math models for critical locations on the orbiter during reentry
01 p0023 N84-10147
Orbiter entry heating lessons learned from development flight test program 01 p0023 N84-10148
Shuttle orbiter boundary layer transition at flight and wind tunnel conditions 01 p0023 N84-10149
Orbiter windward surface entry Heating: Post-orbital flight test program update 01 p0024 N84-10150
Viscous shock-layer predictions of three-dimensional nonequilibrium flows past the space shuttle at high angle of attack 01 p0024 N84-10151
Catalytic surface effects on space thermal protection system during Earth entry of flights STS-2 through STS-5 01 p0024 N84-10152
Orbiter catalytic/noncatalytic heat transfer as evidenced by heating to contaminated surfaces on STS-2 and STS-3 01 p0024 N84-10153
A review of nonequilibrium effects and surface catalysis on shuttle heating 01 p0024 N84-10154
Filler bar heating due to stepped tiles in the shuttle orbiter thermal protection system 01 p0024 N84-10155
Leeward centerline and side fuselage entry heating predictions for the space shuttle orbiter
01 p0025 N84-10156
Space shuttle orbiter reusable surface insulation flight results 01 p0025 N84-10157
Lessons learned from the development and manufacture of ceramic reusable surface insulation materials for the space shuttle orbiters 01 p0025 N84-10158
Life considerations of the shuttle orbiter densified-tile thermal protection system 01 p0025 N84-10159
Shuttle TPS thermal performance and analysis methodology 01 p0025 N84-10160
Space shuttle orbiter leading-edge flight performance compared to design goals 01 p0025 N84-10161
Compiling the space shuttle wind tunnel data base: An exercise in technical and managerial innovators
01 p0026 N84-10166
Spacelab: An international short-stay orbiting laboratory
[NASA-EP-165] 01 p0027 N84-10172
Molecular contamination math model support
[NASA-CR-170899] 01 p0028 N84-10174
Bounding the costs of hedging against Space Shuttle contingencies: A policy analytic approach
[N1829-AF] 02 p0184 N84-11198
Flight of STS-7 with astronauts Captain Robert L. Crippen, Captain Frederick H. Hauck, Colonel John M. Fabian, Doctor Sally K. Ride and Doctor Norman E. Thagard
[GPO-23-872] 02 p0184 N84-11198
Combustion performance and heat transfer characterization of LOX/hydrocarbon type propellants, volume 1
[NASA-CR-171713] 02 p0202 N84-11319
Combustion performance and heat transfer characterization of LOX/hydrocarbon type propellants
[NASA-CR-171712] 02 p0205 N84-11335
Space Shuttle propulsion parameter estimation using optimal estimation techniques, volume 1
[NASA-CR-170935] 03 p0341 N84-12213
Study of auxiliary propulsion requirements for large space systems. Volume 1: Executive summary
[NASA-CR-168193-VOL-1] 03 p0343 N84-12226
Space Shuttle flying qualities and flight control system assessment study, phase 2
[NASA-CR-170406] 05 p0633 N84-14158
The space shuttle environment as evidence of critical ionization phenomena 05 p0639 N84-14204
Flight of STS-8 with astronauts Captain Richard H. Truly, Commander Daniel C. Brandenstein, Lieutenant Commander Dale A. Gardner, Lieutenant Colonel Guion S. Bluford, Jr. and William Edgar Thornton, M.D.
[GPO-27-043] 05 p0643 N84-14230
The gaseous and plasma environment around space shuttle
[AD-A133900] 05 p0643 N84-14231
High speed machining of space shuttle external tank liquid hydrogen barrel panel
[NASA-TM-82557] 05 p0662 N84-14352
Aeroelastic stability analysis of the light weight tank LH-2 cable tray
[LMSC/D056511] 05 p0692 N84-14543
STS-5 (Space Transport System-5) fish kill, Kennedy Space Center, Florida
[AD-A132958] 05 p0700 N84-14595
Space shuttle exhaust cloud properties
[NASA-TP-2258] 05 p0702 N84-14606
Mission definition study for a VLBI station utilizing the Space Shuttle
[NASA-CR-175126] 06 p0794 N84-15173
Engineering evaluations and studies. Volume 2: Exhibit B, part 2
[NASA-CR-171726] 06 p0794 N84-15176
Atomic oxygen effects on materials
06 p0929 N84-16036
Chronology of KSC and KSC related events for 1981
[NASA-TM-85510] 06 p0933 N84-16060
41-B tenth Space Shuttle mission
[NASA-NEWS-RELEASE-84-4]
07 p0963 N84-16241
STS-9: Orbital workshop spacelab to fly on ninth Shuttle mission
[NASA-TM-85497] 07 p0963 N84-16242
The SRB nozzle erosion related flow analysis
[NASA-CR-170961] 07 p0965 N84-16251
Geologic application of spaceborne radars
07 p0967 N84-16391
Substance geology of the western desert in Egypt and Sudan revealed by Shuttle Imaging Radar (SIR-A)
07 p0967 N84-16392
Use of coregistered radar, visible and IR images for geologic remote sensing 07 p0967 N84-16393
Stereo imaging with spaceborne radars
07 p0968 N84-16400
SIR-A aids regional geology: Comparisons of SIR-A imagery with SLAR and LANDSAT over Guyana, Venezuela, Nicaragua and Mali
07 p0968 N84-16401
Identification of new potential scientific and technology areas for DoD application. Summary of activities
[AD-A134372] 07 p1084 N84-17050
Space Shuttle ice suppression system validation, volume 1
[NASA-CR-171740] 08 p1114 N84-17244
Space Shuttle ice suppression system validation, volume 2
[NASA-CR-171741] 08 p1114 N84-17245
Space Shuttle ice suppression system validation, volume 3
[NASA-CR-171742] 08 p1114 N84-17246
Implications of joint NASA/DOD participation in Space Shuttle operations
[PB84-122472] 08 p1120 N84-17286
NSI-1 Squib adapter development and final test report for usage on space shuttle gas sampler valve/bottle assembly 3270
[NASA-CR-171735] 08 p1161 N84-17556
Remembered images, NASA 1958-1983
[NASA-EP-200] 09 p1260 N84-18224
Laboratory degradation of Kapton in a low energy oxygen ion beam
[NASA-TM-83530] 09 p1272 N84-18310
Airborne measurements of launch vehicle effluent of STS-2 launch on November 12, 1981 at Cape Canaveral, Florida
[NASA-TP-2260] 09 p1342 N84-18764
Environmental monitoring instrumentation and monitoring techniques for space shuttle launches
[AD-A136594] 09 p1342 N84-18766
Importance of gravity for plant growth and behavior
09 p1356 N84-18864
Interactions of light and gravity on growth, orientation, and lignin biosynthesis in mung beans
09 p1359 N84-18879
Mobilization and defense management technical reports series. Management implications of industrial support capabilities for Space Shuttle operations
[AD-A137460] 10 p1438 N84-19390
Nonlinear modeling and initial condition estimation for identifying the aerothermodynamic environment of the Space Shuttle Orbiter
[AD-A136928] 10 p1438 N84-19391
Steady internal flow and aerodynamic loads analysis of shuttle thermal protection system
[NASA-TP-2255] 10 p1439 N84-19393
Ice impact testing of space shuttle thermal protection system materials 10 p1509 N84-19860
Acoustic environments for JPL shuttle payloads based on early flight data 10 p1512 N84-19898
Temporal and spatial gaseous HCl concentrations in the near field STS postlaunch environment, Kennedy Space Center, Florida
[AD-A136935] 10 p1532 N84-20032
Starlab Ground System guidelines document
[NASA-CR-175192] 10 p1592 N84-20435
Space shuttle flying qualities criteria assessment, phase 3
[NASA-CR-170407] 11 p1614 N84-20565
STS-9 BET products
[NASA-CR-172314] 11 p1622 N84-20616
Space Shuttle inflatable training articles
[NASA-CR-171761] 11 p1622 N84-20618
Space Shuttle inflatable training articles. Appendices D and I: Drawings
[NASA-CR-171762] 11 p1622 N84-20619
Decompression mechanisms and decompression schedule calculations
[AD-A137868] 11 p1695 N84-21060
A polytetrafluorethylene insulated cable for high temperature oxygen aerospace applications
11 p1723 N84-21238
Shuttle interaction study
[NASA-CR-173400] 12 p1777 N84-21592

Shutter interaction study extension
[NASA-CR-173401] 12 p1777 N84-21593
Shuttle interaction study extension
[NASA-CR-173398] 12 p1777 N84-21594
Satellite services handbook. Interface guidelines
[NASA-CR-171774] 12 p1777 N84-21597
Operational modules for space station construction
[NASA-TM-85772] 12 p1779 N84-21608
Satellite Services Catalog: Tools and equipment
[NASA-TM-85827] 13 p1937 N84-22597
A development of logistics management models for the Space Transportation System
[NASA-CR-173504] 14 p2113 N84-23664
The Consolidated Space Operations Center (CSOC) communications acquisition
[AD-P002154] 14 p2138 N84-23819
Atmospheric environment for Space Shuttle (STS-9) launch
[NASA-TM-82572] 14 p2179 N84-24047
Activities of the Aeronautics and Space Engineering Board Commission on Engineering and Technical Systems
[NASA-CR-173529] 15 p2285 N84-24800
The design, simulation and developmental testing of the Space Shuttle Data Bus System
15 p2269 N84-24824
Shuttle flight test of an advanced gamma-ray detection system
[AD-A136157] 15 p2337 N84-25030
Inherent problems in designing two-failure tolerant electromechanical actuators 15 p2348 N84-25088
Shuttle flight data analysis 16 p2441 N84-25659
The measurement of heat transfer and temperature distributions in hypersonic testing
16 p2441 N84-25662
General introduction. Part 1: The waverider. Origins, evolution and applications. Part 2: Waverider aero-and aerothermodynamics. Part 3: Configuration design. Reentry gliders. Part 4: Configuration design. Cruise/ramjet vehicles 16 p2442 N84-25667
Aerothermal wind tunnel test of the space shuttle OMS (Orbital Maneuvering System) pod AFRSI (Advanced Flexible Reusable Surface Insulation) material
[AD-A140292] 16 p2457 N84-25754
On the space shuttle wing thermal-structural analysis
16 p2457 N84-25755
Is there a good way to model spacecraft charging in the presence of space-charge coupling, flow and magnetic fields?
[AD-P002102] 16 p2521 N84-26188
Space Shuttle charging results
[AD-P002104] 16 p2522 N84-26190
STS-3/OSS-1 Plasma Diagnostics Package (PDP) measurements of Orbiter-generated V x B potentials and electrostatic noise
[AD-P002105] 16 p2522 N84-26191
A representational basis for the development of a distributed expert system for Space Shuttle flight control
[NASA-TM-58256] 16 p2544 N84-26328
Aerothermal performance and damage tolerance of a Rene 41 metallic standoff thermal protection system at Mach 6.7
[NASA-TM-85773] 17 p2615 N84-26739
Space Station commercial user development
[NASA-CR-173668] 18 p2798 N84-27756
Get away special experimenter's symposium
[NASA-CP-2324] 18 p2799 N84-27758
Results of the Purdue University GAS-1 payload
18 p2799 N84-27760
Arc discharge convection studies: A Space Shuttle experiment 18 p2799 N84-27761
Spacescapes/payloads for the arts: Administrative and technical aspects of the New Wave Ruby Falls Get Away Special Project are reviewed in perspective
18 p2799 N84-27762
Crystal growth of artificial snow
18 p2799 N84-27763
Getaway Special competition: Overview
18 p2799 N84-27764
Modular and standardized GAS payload hardware
18 p2799 N84-27765
El Paso/Ysleta schools Get-Away Special Space Shuttle student projects 18 p2799 N84-27766
Marshall Amateur Club experiment (MARCE)
18 p2800 N84-27767
Gypsy moths and American dog ticks: Space partners
18 p2800 N84-27768
Wind tunnel material test to quantify Space Shuttle external tank insulation requirements
[AD-A141563] 19 p2961 N84-28890
Atmospheric environment for space shuttle (STS-13) launch
[NASA-TM-82586] 19 p3057 N84-29396
Meteorological interactive data display system (MIDDAS)
[AD-A141864] 19 p3059 N84-29406
STS-13 (41-C) BET products
[NASA-CR-172350] 20 p3134 N84-29901
Shuttle payload improvement by low risk modifications to the OMS engine 20 p3138 N84-29925
Aerothermodynamic data base, phase C
[NASA-CR-173662] 21 p3351 N84-31259
Investigation of the external flow analysis for density measurements at high altitude — shuttle upper atmosphere mass spectrometer experiment
[NASA-CR-173681] 22 p3530 N84-32352
A high energy stage for the National Space Transporation System
[NASA-TM-83795] 22 p3540 N84-32411
Aerothermodynamic data base
[NASA-CR-171807] 22 p3541 N84-32415
Shuttle detached spacecraft
[AD-A143320] 22 p3541 N84-32417
Residual mechanical properties of Ti-6Al-4V after simulated Space Shuttle reentry
[NASA-TM-86294] 22 p3554 N84-32506
Spinoff, 1984
[NASA-TM-85596] 22 p3576 N84-33305
System operations, book 6
[NAS 1.15:86652-BK-6] 23 p3699 N84-33442
Induced environment contamination monitor: Preliminary results from the Spacelab 1 flight
[NASA-TM-86461] 23 p3701 N84-33461
Development of in situ stiffness properties for shuttle booster filament wound case
[NASA-TP-2377] 23 p3711 N84-33521
Regenerative hydrogen-oxygen fuel cell-electrolyzer systems for orbital energy storage
23 p3735 N84-33670
Transition description and prediction in three-dimensional flows 23 p3748 N84-33761
Study of outgassing and decomposition of Space Shuttle heat protection tiles, fillers and adhesive
[NASA-CR-173974] 24 p3860 N84-34465
Space Shuttle reaction control subsystem propellant tank masked screen test 24 p3862 N84-34477

SPACE SIMULATORS
A high performance fiber optic telemetry link for use in a space radiation simulator
[AD-A132738] 05 p0643 N84-14232
Thirteenth Space Simulation Conference. The Payload: Testing for Success
[NASA-CP-2340] 24 p3861 N84-34466
Fatigue induced cracking in aluminum LN-2 shroud of 39 foot vacuum chamber 24 p3862 N84-34476
Hypervelocity supersonic nozzle beam source of atomic oxygen 24 p3863 N84-34480
A facility for investigating interactions of energetic atomic oxygen with solids 24 p3863 N84-34481
An atomic oxygen facility for studying polymer materials for spacecraft applications 24 p3863 N84-34482
A low Earth orbit molecular beam space simulation facility 24 p3863 N84-34483
Atomic beam system for laboratory simulation of upper atmosphere oxygen atom impact on STS surfaces
24 p3863 N84-34485
Improved materials characterization for spacecraft applications 24 p3865 N84-34494
Preparation and cleanliness verifications of a space simulation chamber for contamination sensitive test specimens 24 p3865 N84-34495

SPACE STATIONS
NT LONG DURATION EXPOSURE FACILITY
NT ORBITAL SPACE STATIONS
NT SALYUT SPACE STATION
NT SPACE OPERATIONS CENTER (NASA)
Integrated Flywheel Technology, 1983
[NASA-CP-2290] 03 p0343 N84-12228
Space station attitude control system concept and requirements 03 p0344 N84-12234
Space station control requirements and flywheel system weights for combined momentum and energy storage
03 p0344 N84-12236
Advanced Control and Power System (ACAPS) technology program 03 p0345 N84-12243
NASA's space station activities
[GPO-27-393] 05 p0644 N84-14234
Thermal analysis research applicable to space station technology needs
[NASA-TM-84658] 06 p0834 N84-15426
The US space station: Potential base for a spaceborne microwave facility 07 p0991 N84-16420
STEP Experiment Requirements
[NASA-CP-2294] 08 p1109 N84-17211
Space Technology Experiments Platform (STEP) overview 08 p1109 N84-17212
STEP mechanical systems 08 p1109 N84-17213
STEP experiment integration
08 p1109 N84-17215
Deployable beam flight experiment (MAST)
08 p1110 N84-17218
Erectable beam experiment 08 p1110 N84-17219
Integrated Power/Attitude Control System (IPACS) technology experiment 08 p1111 N84-17229
User manual of the CATSS system (version 1.0) communication analysis tool for space station
[NASA-CR-171728] 08 p1142 N84-17431
Airborne antenna pattern calculations
[NASA-CR-173284] 08 p1143 N84-17436
Space station needs, attributes and architectural options study. Volume 1: Executive study
[NASA-CR-173334] 09 p1266 N84-18265
Space station needs, attributes and architectural options study. Volume 2: Mission analysis
[NASA-CR-173333] 09 p1266 N84-18266
Space station needs, attributes and architectural options study. Volume 3: Requirements
[NASA-CR-173332] 09 p1266 N84-18267
Space station needs, attributes and architectural options study. Volume 4: Architectural options, subsystems, technology and programmatics
[NASA-CR-173331] 09 p1266 N84-18268
Space station needs, attributes and architectural options study. Final executive review
[NASA-CR-173335] 09 p1267 N84-18269
Space station needs, attributes and architectural options. Part 1: Summary
[NASA-CR-175382] 09 p1267 N84-18270
Space Station needs, attributes and architectural options: Summary briefing
[NASA-CR-173328] 09 p1267 N84-18271
Space station needs, attributes and architectural options study. Final review executive summary briefing
[NASA-CR-173674] 09 p1267 N84-18272
Space station needs, attributes and architectural options study. Briefing material: Final review and executive summary
[NASA-CR-173321] 09 p1267 N84-18273
Space Station needs, attributes, and architectural options study
[NASA-CR-173327] 09 p1267 N84-18274
Space station needs, attributes and architectural options. Summary of major study activities and results. Space station program observations
[NASA-CR-173345] 09 p1267 N84-18275
Space Station Technology, 1983
[NASA-CP-2293] 09 p1268 N84-18277
Systems/operations technology
09 p1268 N84-18278
Crew and life support: EVA 09 p1268 N84-18279
Crew and life support: ECLSS
09 p1268 N84-18280
Attitude, control and stabilization
09 p1268 N84-18281
Human capabilities 09 p1268 N84-18282
Auxiliary propulsion 09 p1268 N84-18283
Fluid management 09 p1268 N84-18284
Communications 09 p1269 N84-18285
Structures and mechanisms 09 p1269 N84-18286
Data management 09 p1269 N84-18287
Power 09 p1269 N84-18288
Thermal control 09 p1269 N84-18289
Space station needs, attributes and architectural options. Volume 4, attachment 1: Task 2 and 3 mission implementation and cost
[NASA-CR-173330] 09 p1269 N84-18290
Space station needs, attributes and architectural options. Volume 2, attachment 2: Supporting data and analysis reports
[NASA-CR-173329] 09 p1269 N84-18291
Space station needs, attributes and architectural options. Volume 1: Executive summary NASA
[NASA-CR-172792] 09 p1269 N84-18292
Space station needs, attributes and architectural options. Volume 1, attachment 1: Executive summary NASA
[NASA-CR-173337] 09 p1270 N84-18293
Space station needs, attributes and architectural options. Volume 1, attachment 2: Supporting data and analysis reports
[NASA-CR-173336] 09 p1270 N84-18294
Space Station needs, attributes and architectural options. Volume 2, book 1, part 1: Mission requirements
[NASA-CR-173312] 09 p1270 N84-18296
Space Station needs, attributes and architectural options. Volume 2, book 1, part 2, task 1: Mission requirements
[NASA-CR-173313] 09 p1270 N84-18297
Space Station needs, attributes and architectural options. Volume 2, book 1, part 3: Manned Space Station relevance to commercial telecommunications satellites
[NASA-CR-173314] 09 p1270 N84-18298
Space Station needs, attributes and architectural options. Volume 2, book 1, part 4: Payload element mission data sheets
[NASA-CR-173315] 09 p1270 N84-18299

Space Station needs, attributes and architectural options. Volume 2, book 2, part 1: Mission implementation concepts
[NASA-CR-173316] 09 p1270 N84-18300

Space Station needs, attributes and architectural options. Volume 2, book 2, part 2, Task 2: Information management system
[NASA-CR-173317] 09 p1271 N84-18301

Space Station needs, attributes and architectural options. Volume 2, book 2, part 3: Communication system
[NASA-CR-173318] 09 p1271 N84-18302

Space Station needs, attributes and architectural options, volume 2, book 2, part 4: International reports
[NASA-CR-173319] 09 p1271 N84-18303

Space Station needs, attributes and architectural options, volume 2, book 3: Cost and programmatics
[NASA-CR-173320] 09 p1271 N84-18304

Definition of technology development missions for early space stations orbit transfer vehicle serving. Phase 2, task 1: Space station support of operational OTV servicing
[NASA-CR-170984] 10 p1434 N84-19377

A manned-machine space station construction concept
[NASA-TM-85762] 10 p1439 N84-19395

The complementary roles of existing and advanced environmental, thermal control and life support technology for space stations 10 p1443 N84-19429

Biological life support system — for space stations 10 p1444 N84-19430

Civil space station
[S-REPT-98-523] 11 p1621 N84-20613

On-orbit spacecraft/stage servicing during STS life cycle
[NASA-CR-171775] 11 p1622 N84-20617

A study of a space-station-associated multiple spacecraft Michelson spatial interferometer
[NASA-CR-175438] 11 p1624 N84-20630

Space Station medical sciences concepts
[NASA-TM-58255] 11 p1693 N84-21040

Alternative strategies for space station financing
[NASA-CR-175412] 11 p1752 N84-21437

Interactive geometry modeling of space station conceptual designs 12 p1871 N84-22191

Advanced planetary studies
[NASA-CR-173496] 13 p1936 N84-22591

Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-1] 13 p1939 N84-22612

Space Station Systems Technology Study. Volume 3: Technology and Advancement Program Plan
[NASA-CR-171016] 13 p1940 N84-22613

Space Station Systems Technology Study. Volume 1: Executive summary
[NASA-CR-171014] 13 p1940 N84-22614

Behavioral biology of mammalian reproduction and development for a space station
[NASA-CR-173493] 13 p2019 N84-23092

Conceptual design study. Science and Applications Space Platform (SASP). Final briefing
[NASA-CR-173520] 14 p2114 N84-23670

Advanced Platform Systems Technology study. Volume 2: Trade study and technology selection
[NASA-CR-173522] 14 p2115 N84-23672

Department of Housing and Urban Development Appropriations Bill, 1984
[H-REPT-98-803] 14 p2249 N84-24508

Activities of the Aeronautics and Space Engineering Board Commission on Engineering and Technical Systems
[NASA-CR-173529] 15 p2265 N84-24600

Space station needs attributes and architectural options study costing working group briefing
[NASA-CR-173517] 15 p2265 N84-24601

Spacecraft control research at NASA 15 p2266 N84-24604

Space station needs, attributes and architectural options study. Briefing material, mid-term review
[NASA-CR-173536] 15 p2279 N84-24692

Investigation of thermospheric winds relative to space station orbital altitudes
[NASA-TM-82577] 15 p2371 N84-25220

Dynamic characteristics of a space-station solar wing array
[NASA-TM-85780] 16 p2458 N84-25758

Space station propulsion analysis study
[NASA-TM-83715] 16 p2459 N84-25764

Observations of the Earth's magnetic field from the Space Station: Measurement at high and extremely low altitude using Space Station-controlled free-flyers
[NASA-TM-86119] 16 p2521 N84-26183

Department of Housing and Urban Development-Independent Agencies Appropriations Bill, 1985
[S-REPT-98-506] 16 p2568 N84-26476

National Aeronautics and Space Administration 16 p2568 N84-26477

Department of Housing and Urban Development-Independent Agencies Appropriation Act, 1985 16 p2568 N84-26480

National Aeronautics and Space Administration 16 p2568 N84-26481

Natural environment design criteria for the space station program definition phase
[NASA-TM-82585] 17 p2615 N84-26740

Orbiting dynamic compression laboratory
[NASA-CR-173704] 18 p2798 N84-27755

Space Station commercial user development
[NASA-CR-173688] 18 p2798 N84-27756

Space station needs, attributes, and architectural options: Commercial opportunities in space
[NASA-CR-173698] 18 p2803 N84-27788

Space station needs, attributes, and architectural options: Technology development
[NASA-CR-173697] 18 p2803 N84-27789

Space station needs, attributes, and architectural options: Space station program cost analysis
[NASA-CR-173696] 18 p2803 N84-27790

Space station needs, attributes, and architectural options: Brief analysis
[NASA-CR-173695] 18 p2803 N84-27791

Space station needs, attributes and architectural options: Midterm main briefing
[NASA-CR-173687] 18 p2803 N84-27792

Space station needs, attributes and architectural options: Architectural options and selection
[NASA-CR-173694] 18 p2804 N84-27793

Space station needs, attributes, and architectural options: Mission requirements
[NASA-CR-173693] 18 p2804 N84-27794

Space station needs, attributes and architectural options study. Volume 7-1: Data book. Science and applications missions
[NASA-CR-173702] 18 p2804 N84-27795

Space station needs, attributes and architectural options study. Volume 7-2: Data book. Commercial missions
[NASA-CR-173719] 18 p2804 N84-27797

Space station needs, attributes and architectural options study
[NASA-CR-173699] 18 p2804 N84-27798

Space Station needs, attributes and architectural options study. Volume 7-4A: Data book, architecture, technology and programmatics, part A
[NASA-CR-173686] 18 p2804 N84-27799

Space station needs, attributes and architectural options study. Volume 7-4B: Data book, architecture, technology and programmatics, part B
[NASA-CR-173685] 18 p2804 N84-27800

Space station needs, attributes and architectural options study. Volume 7-5A: Data book. Mission analysis part A
[NASA-CR-173701] 18 p2805 N84-27801

Space station needs, attributes and architectural options study. Volume 7-5B: Data book. Mission analysis part B
[NASA-CR-173711] 18 p2805 N84-27802

A study of space station needs, attributes and architectural options. Volume 1: Executive summary
[NASA-CR-173705] 18 p2805 N84-27803

A study of space station needs, attributes and architectural options. Volume 2: Technical. Book 1: Mission requirements
[NASA-CR-173706] 18 p2805 N84-27804

A study of space station needs, attributes and architectural options. Volume 2: Technical. Book 1: Mission requirements. Appendixes 1 and 2
[NASA-CR-173709] 18 p2805 N84-27805

A study of space station needs, attributes, and architectural options, volume 2, technical. Book 2: Mission implementation concepts
[NASA-CR-173690] 18 p2805 N84-27806

A study of space station needs, attributes and architectural options, volume 2, technical. Book 3: Economic benefits, costs and programmatics
[NASA-CR-173689] 18 p2805 N84-27807

A study of space station needs, attributes and architectural options. Midterm briefing, executive summary
[NASA-CR-173446] 18 p2805 N84-27808

A study of space station needs, attributes and architectural options, midterm briefing
[NASA-CR-173714] 18 p2805 N84-27809

A study of space station needs, attributes and architectural options. Final briefing: Cost working group discussion session
[NASA-CR-173713] 18 p2806 N84-27810

Space station needs, attributes and architectural options. Volume 3, task 1: Mission requirements
[NASA-CR-173712] 18 p2806 N84-27811

Space station needs, attributes and architectural options. Volume 3, attachment 1, task 1: Mission requirements
[NASA-CR-173716] 18 p2806 N84-27812

Space station needs, attributes and architectural options. Volume 4, task 2 and 3: Mission implementation and cost
[NASA-CR-173715] 18 p2806 N84-27813

Space station needs, attributes and architectural options: Study summary
[NASA-CR-173692] 18 p2806 N84-27814

Space station: Cost and benefits
[NASA-CR-173718] 18 p2806 N84-27815

Space station needs, attributes, and architectural options. Volume 1. Executive summary
[NASA-CR-173710] 18 p2806 N84-27816

Space station needs, attributes and architectural options: Mission requirements
[NASA-CR-173691] 18 p2806 N84-27817

Space station needs, attributes and architectural options: Midterm review, executive overview
[NASA-CR-173707] 18 p2806 N84-27818

Study of robotics systems applications to the space station program
[NASA-CR-173703] 18 p2807 N84-27819

A systematic comparative analysis of conditions analogous to long-duration space missions
[AD-P003353] 18 p2912 N84-28469

System definition study of deployable, non-metallic space structures
[NASA-CR-171090] 19 p2960 N84-28687

Conceptual design of a mobile remote manipulator system 19 p2962 N84-28694

Performance measurement of low concentration ratio solar array for space application 19 p3047 N84-29333

Preliminary space station solar array structural design study 19 p3047 N84-29335

Space station 19 p3049 N84-29344

The 1984 JANNAF Propulsion Meeting, volume 1
[AD-A142852] 20 p3135 N84-29906

Very low thrust and low chamber pressure GO2/GH2 thruster technology 20 p3136 N84-29910

Low thrust bipropellant engine development 20 p3136 N84-29912

Factors that influence space station propulsion requirements 20 p3139 N84-29931

Cost evaluation of space station propulsion system options 20 p3139 N84-29932

An integrated space station propulsion system 20 p3139 N84-29933

Oxygen/hydrogen thrusters for the space station auxiliary propulsion systems 20 p3140 N84-29934

Thrust level requirements for space station on-orbit propulsion 20 p3140 N84-29935

Space Station Systems Analysis Study. Volume 1: Executive summary, part 1 and 2
[NASA-CR-161590] 21 p3352 N84-31263

Space Station Systems Analysis Study. Volume 2: Program review report
[NASA-CR-161231] 21 p3352 N84-31264

Space Station Systems Analysis Study. Volume 2: Program options, book 1, parts 1 and 2
[NASA-CR-161927] 21 p3352 N84-31265

A high voltage electrical power system for low Earth orbit applications
[NASA-TM-86453] 21 p3390 N84-31511

Structural performance of orthogonal tetrahedral truss Space-Station configurations
[NASA-TM-86260] 22 p3542 N84-32422

Computer vision for real-time orbital operations. Center directors discretionary fund
[NASA-TM-86457] 22 p3640 N84-33076

Space activities of the United States, Soviet Union, and other launching countries/organizations, 1957-1983
[GPO-33-265] 23 p3696 N84-33425

Space station program description document. Books 1-7
[NASA-TM-86652-BK-1-7] 23 p3698 N84-33437

Space station program description document: Introduction and summary, book 1
[NAS 1.15:86652-BK-1] 23 p3698 N84-33438

Mission description document, book 2
[NAS 1.15:86652-BK-2] 23 p3698 N84-33439

System requirements and characteristics, book 3
[NAS 1.15:86652-BK-3] 23 p3698 N84-33440

Advanced development program, books 4 and 5
[NAS 1.15:86652-BK-4/5] 23 p3699 N84-33441

System operations, book 6
[NAS 1.15:86652-BK-6] 23 p3699 N84-33442

Program plan, book 7
[NAS 1.15:86652-BK-7] 23 p3699 N84-33443

Space stations: Living in zero gravity, developmental task for psychologists and space environmental experts
[NASA-TM-77620] 23 p3700 N84-33454
A review of micrometeoroid flux measurements and models for low orbital altitudes of the Space Station
[NASA-TM-86486] 23 p3700 N84-33455
Space Station 23 p3701 N84-33456
Radiative resistojet performance characterization tests
[NASA-CR-174763] 23 p3701 N84-33462
Human capabilities in space — man machine interaction
[NASA-TM-87360] 23 p3811 N84-34165
A study of space station needs, attributes and architectural options
[NASA-CR-173697] 24 p3859 N84-34459
Space Station Needs, Attributes and Architectural Options. Contractor orientation briefings
[NASA-CR-173699] 24 p3859 N84-34460

SPACE SUITS
G suit of bladderless type as a means of improving orthostatic stability after water immersion hypokinesia nd exposure to accelerations 07 p1045 N84-16775
Shoulder and hip joint for hard space suits and the like
[NASA-CASE-ARC-11534-1] 22 p3633 N84-33021

SPACE SURVEILLANCE (GROUND BASED)
A search for Earth-crossing asteroids, supplement
[NASA-CR-173255] 07 p1092 N84-17101
A CCD photometric camera for satellite observation
[AD-A137214] 11 p1660 N84-20833

SPACE SURVEILLANCE (SPACEBORNE)
The research of National Defence's (FOA) future policy document on space technology
[FOA-A-30034-E1] 15 p2265 N84-24602

SPACE SYSTEMS ENGINEERING
U AEROSPACE ENGINEERING

SPACE TOOLS
On orbit surfacing of thermal control surfaces
[NASA-CR-171121] 21 p3352 N84-31266
EMU battery/module service tool characterization study 23 p3739 N84-33696

SPACE TRANSPORTATION
NT SPACE SHUTTLE BOOSTERS
NT SPACE SHUTTLE ORBITERS
NT SPACE TRANSPORTATION SYSTEM
Preventive maintenance on space systems
[AD-A134955] 08 p1107 N84-17196
Future space transport
[NASA-TM-77554] 14 p2114 N84-23668
Hypersonic Aerothermodynamics
[VKI-LS-1984-01] 16 p2440 N84-25656
Technical and scientific publication 1983: Research and development 16 p2561 N84-26430
Space station needs, attributes and architectural options: Architectural options and selection
[NASA-CR-173694] 18 p2804 N84-27793
Geokinetic effects on motion sensitive instrumentation, systems and facilities
[AD-A142662] 20 p3241 N84-30575

SPACE TRANSPORTATION SYSTEM
NT SPACE SHUTTLE BOOSTERS
NT SPACE SHUTTLE ORBITERS
NT SPACE SHUTTLES
NT SPACE TRANSPORTATION SYSTEM FLIGHTS
NT SPACE TRANSPORTATION SYSTEM 7 FLIGHT
NT SPACE TRANSPORTATION SYSTEM 8 FLIGHT
NT SPACE TRANSPORTATION SYSTEM 9 FLIGHT
NT SPACE TRANSPORTATION SYSTEM 11 FLIGHT
Development of space shuttle ignition overpressure environment and correlation with flight data 01 p0020 N84-10127
Analysis of shuttle oscillation in the Mach Number = 1.7 to Mach Number = 1.0 range 01 p0021 N84-10132
Bounding the costs of hedging against Space Shuttle contingencies: A policy analytic approach
[N1829-AF] 02 p0184 N84-11196
Operational applications of military test ranges in space transportation system programs
[AD-A132535] 04 p0490 N84-13217
Chronology of KSC and KSC related events for 1981
[NASA-TM-85510] 06 p0933 N84-16060
Space Technology Experiments Platform (STEP) overview 08 p1109 N84-17212
STEP electronic system design 08 p1109 N84-17214
National Aeronautics and Space Administration Act, 1985 08 p1241 N84-18116
Spacelab data book
[ESA-BR-14] 09 p1273 N84-18315
On-orbit spacecraft/stage servicing during STS life cycle
[NASA-CR-171775] 11 p1622 N84-20617
Evaluation of propellent tank insulation concepts for low-thrust chemical propulsion systems: Executive summary
[NASA-CR-168321] 11 p1636 N84-20699
Authorizing appropriations to the National Aeronautics and Space Administration for fiscal year 1985
[H-REPT-98-629] 11 p1753 N84-21441
Chronology of KSC and KSC related events, 1982
[NASA-TM-85576] 12 p1917 N84-22491
Classification management. Journal of the National Classification Management Society, volume 18, 1982
[AD-A136480] 12 p1919 N84-22502
Certification vibration tests, SD602 materials experiment
[AD-A136547] 13 p2001 N84-22982
A development of logistics management models for the Space Transportation System
[NASA-CR-173504] 14 p2113 N84-23664
Advanced leading edge thermal-structure concept. Direct bond reusable surface insulation to a composite structure
[NASA-TM-85941] 14 p2113 N84-23665
The ESA activities on future launchers 16 p2441 N84-25657
The next generation of reentry vehicles: NASA's view 16 p2441 N84-25658
Shuttle flight data analysis 16 p2441 N84-25659
Department of Housing and Urban Development-Independent Agencies Appropriations Bill, 1985
[S-REPT-98-506] 16 p2568 N84-26476
Repair techniques for celion/LARC-160 graphite/polyimide composite structures
[NASA-CR-3794] 17 p2617 N84-26752
Three stage rocket vehicle with parallel staging
[NASA-CASE-MFS-25878-1] 18 p2803 N84-27787
A study of space station needs, attributes and architectural options. Midterm briefing, executive summary
[NASA-CR-173446] 18 p2805 N84-27808
Twenty years of European cooperation in space 18 p2946 N84-28681
The ASTRO-1 preliminary design review coupled load analysis
[NASA-TM-82587] 19 p3034 N84-29246
STS-13 (41-C) BET products
[NASA-CR-172350] 20 p3134 N84-29901
The space transportation system reaction control system and orbital maneuvering subsystem 20 p3135 N84-29908
Space transportation systems of the future 21 p3348 N84-31236
A high energy stage for the National Space Transporation System
[NASA-TM-83795] 22 p3540 N84-32411

SPACE TRANSPORTATION SYSTEM FLIGHTS
NT SPACE TRANSPORTATION SYSTEM 1 FLIGHT
NT SPACE TRANSPORTATION SYSTEM 2 FLIGHT
NT SPACE TRANSPORTATION SYSTEM 3 FLIGHT
NT SPACE TRANSPORTATION SYSTEM 4 FLIGHT
NT SPACE TRANSPORTATION SYSTEM 6 FLIGHT
NT SPACE TRANSPORTATION SYSTEM 7 FLIGHT
NT SPACE TRANSPORTATION SYSTEM 8 FLIGHT
NT SPACE TRANSPORTATION SYSTEM 9 FLIGHT
NT SPACE TRANSPORTATION SYSTEM 11 FLIGHT
Aerodynamic analysis of the loft anomaly observed on orbital flight tests of the space shuttle 01 p0019 N84-10120
Space shuttle orbiter venting: Lessons learned 01 p0020 N84-10126
Space shuttle entry longitudinal aerodynamic comparisons of flights 1-4 with preflight predictions 01 p0020 N84-10128
Space shuttle wing leading edge heating environment prediction derived from development flight data 01 p0025 N84-10162
Subsonic longitudinal performance coefficient extraction from shuttle flight data: An accuracy assessment for determination of data base updates 01 p0026 N84-10163
A comparison of measured and theoretical predictions for STS ascent and entry sonic booms 01 p0027 N84-10166
Shutter interaction study extension
[NASA-CR-173401] 12 p1777 N84-21593
Repairing Solar Max: The Solar Maximum Repair Mission
[NASA-EP-205] 19 p2979 N84-28883
Atmospheric environment for space shuttle (STS-13) launch
[NASA-TM-82588] 19 p3057 N84-29396
Columbia: The first five flights. Entry heating data series. Volume 6: The upper leeside surface centerline
[NASA-CR-171795] 22 p3541 N84-32414

SPACE TRANSPORTATION SYSTEM 1 FLIGHT
Shuttle ascent GN&C postflight results 01 p0022 N84-10140
MSFC exhaust effluent diffusion predictions and measurements for STS-1, STS-2, STS-3, and STS-4
[NASA-TM-82551] 02 p0243 N84-11593

SPACE TRANSPORTATION SYSTEM 2 FLIGHT
MSFC exhaust effluent diffusion predictions and measurements for STS-1, STS-2, STS-3, and STS-4
[NASA-TM-82551] 02 p0243 N84-11593

SPACE TRANSPORTATION SYSTEM 3 FLIGHT
MSFC exhaust effluent diffusion predictions and measurements for STS-1, STS-2, STS-3, and STS-4
[NASA-TM-82551] 02 p0243 N84-11593
Electron beam experiments aboard the Space Shuttle 05 p0638 N84-14195
Interaction of the space shuttle orbiter with the ionospheric plasma 06 p1117 N84-17265

SPACE TRANSPORTATION SYSTEM 4 FLIGHT
MSFC exhaust effluent diffusion predictions and measurements for STS-1, STS-2, STS-3, and STS-4
[NASA-TM-82551] 02 p0243 N84-11593
Flight data file: STS-4 crew activity plan
[NASA-TM-85502] 19 p2978 N84-28861

SPACE TRANSPORTATION SYSTEM 6 FLIGHT
In-house welding studies supporting the prelaunch assessment of the STS-6 main engines
[NASA-TM-82552] 02 p0229 N84-11499

SPACE TRANSPORTATION SYSTEM 7 FLIGHT
Flight of STS-7 with astronauts Captain Robert L. Crippen, Captain Frederick H. Hauck, Colonel John M. Fabian, Doctor Sally K. Ride and Doctor Norman E. Thagard
[GPO-23-872] 02 p0184 N84-11196
First results of a MAUS experiment to investigate the stability of a metallic dispersion 17 p2612 N84-26724
Modular Optoelectronic Multispectral Scanner (MOMS), interpretation and evaluation of the MOMS-image Arica, west coast of South America 23 p3765 N84-33866

SPACE TRANSPORTATION SYSTEM 8 FLIGHT
STS-8 bet results
[NASA-CR-172257] 02 p0184 N84-11197
Flight of STS-8 with astronauts Captain Richard H. Truly, Commander Daniel C. Brandenstein, Lieutenant Commander Dale A. Gardner, Lieutenant Colonel Guion S. Bluford, Jr. and William Edgar Thornton, M.D.
[GPO-27-043] 05 p0643 N84-14230
Atmospheric environment for space shuttle (STS-8) launch
[NASA-TM-82560] 05 p0708 N84-14636

SPACE TRANSPORTATION SYSTEM 9 FLIGHT
STS-9 Spacelab 1 press kit
[P83-10209] 03 p0341 N84-12214
STS-9 BET products
[NASA-CR-172314] 11 p1622 N84-20616

SPACE TRANSPORTATION SYSTEM 11 FLIGHT
Atmospheric environment for Space Shuttle (STS-11) launch
[NASA-TM-82580] 15 p2366 N84-25194

SPACE VEHICLE CHECKOUT PROGRAM
Leak detector for spacecraft testing with high accuracy 24 p3863 N84-34486

SPACE VEHICLE CONTROL
U SPACECRAFT CONTROL

SPACE VEHICLES
U SPACECRAFT

SPACE WEAPONS
NT LASER WEAPONS
Workshop on Arms Control in Space
[LC-84-601064] 14 p2248 N84-24505
Ballistic missile defense, space-based weapons, and the defense of the west
[AD-A140280] 16 p2454 N84-25738
A parametric analysis of HELSTAR
[AD-A141143] 18 p2848 N84-28071
Feoktistov: Space program ready for manufacturing shops in orbit 19 p2971 N84-28833

SPACE-TIME CONTINUUM
U RELATIVITY

SPACE-TIME FUNCTIONS
The possible unifying effect of the dynamic theory
[DE83-014082] 02 p0301 N84-11973
On space-time means and everywhere defined scattering operators for nonlinear Klein-Gordon equations
[CTH-MATH-1983-13-PREPRINT] 03 p0426 N84-12793
Random eddies in wakes and mixing layers — wind tunnel tests 03 p0429 N84-12813
Magnetohydrodynamic turbulence in the solar wind 03 p0467 N84-13073
Space-time algorithms: Semantics and Methodology 05 p0721 N84-14726
Spacetime operational geodesy 07 p1031 N84-16684

Characterization of the TEXTOR plasma edge using deposition probe techniques
[DE84-003308] 07 p1078 N84-17011
A study of waves on a curved space-time
08 p1237 N84-18083
Multichannel interval timer
[DE84-004635] 10 p1499 N84-19795
Analysis techniques 12 p1834 N84-21957
Model reference adaptive control systems: The hybrid approach 13 p2031 N84-23169
Advances in transmission X-ray optics
[DE84-007235] 14 p2225 N84-24354
Post-processing: Extracting and displaying useful information from digital images
16 p2491 N84-25977
Detection of space-time signal with scattering from background of isotropic noise field
17 p2632 N84-26835
The time-spatial structure of microwave radio fields on line-of-sight overwater paths
[REPT-220] 17 p2651 N84-26955
MST radar detection of middle atmosphere tides
17 p2682 N84-27079
Multivariate analysis and its applications
[AD-A140942] 18 p2925 N84-28549
On the scattering of electromagnetic waves by perfectly conducting bodies moving in vacuum. Part 5: A description of motion and deformation retardation of sets and functions
[AD-A141549] 19 p3005 N84-29048
Computer-generated movie on the short pulse electromagnetic behavior of wire objects
[DE84-012032] 20 p3175 N84-30162
Effect of spatial decorrelation on nulling performance of linear adaptive array
[AD-A143013] 21 p3400 N84-31570
Using information on tangential target motion in space-time signal processing 21 p3487 N84-32101

SPACE-TIME METRIC
U SPACE-TIME FUNCTIONS

SPACEBORNE ASTRONOMY
One year of stars, provided by the IRAS cryogenic system 10 p1442 N84-19416
Thermal design of Infrared Space Observatory (ISO) payload dual cooling 10 p1442 N84-19417
Rocket observations of the diffuse ultraviolet background 10 p1598 N84-20470
A study of a space-station-associated multiple spacecraft Michelson spatial interferometer
[NASA-CR-175438] 11 p1624 N84-20630
Detection of extrasolar planets by the large deployable reflector
[NASA-TM-85874] 11 p1757 N84-21471
Astron satellite 12 p1775 N84-21576
Research and development on high sensitivity infrared detectors, phase 3, VQM
[BMFT-FB-W-83-032] 12 p1909 N84-22436
The star splitters: The high energy astronomy observatories
[NASA-SP-466] 12 p1921 N84-22516
The Advanced X-ray Astrophysics Facility. Observing the universe in X-rays
[NASA-EP-199] 12 p1921 N84-22517
An atlas of UV spectra of supernovae
[ESA-SP-1046] 15 p2424 N84-25563
A search variability in the UV spectrum of Pi Aquarii and Fe 3 shell lines of Be stars
[NASA-CR-173611] 16 p2575 N84-26527
Acceleration and confinement of energetic particles in the 7 June 1980 solar flare
[NASA-CR-173545] 16 p2580 N84-26550
Report on the activities of the Space Science Department — ESA
[ESA-SP-1062] 17 p2774 N84-27611
Proceedings of the Large Deployable Reflector Science and Technology Workshop. Volume 1: Executive Summary
[NASA-CP-2275-VOL-1] 18 p2950 N84-28709
Statistical method for the calculation of the coverage of the celestial sphere including Sun, Moon and Earth constraints (analysis document)
[MATRA-CMT-RT101/016] 23 p3839 N84-34354
Ultraviolet observations of normal galaxies
24 p3970 N84-35136
Ultraviolet studies of the interstellar medium
24 p3970 N84-35137
The diffuse interstellar medium in the Magellanic clouds (review) 24 p3974 N84-35163
The ultraviolet astronomy mission: Columbus
24 p3982 N84-35228

SPACEBORNE EXPERIMENTS
NT ATMOSPHERIC GENERAL CIRCULATION EXPERIMENT
NT EARTH RADIATION BUDGET EXPERIMENT
Space Processing Applications Rocket (SPAR) project SPAR 7
[NASA-TM-82535] 01 p0018 N84-10112
Report on active and planned spacecraft and experiments
[NASA-TM-85455] 02 p0183 N84-11187
Phase A study for a test satellite for propagation and transmission experiments in the 20/30 GHz frequency band
[BMFT-FB-W-83-009] 03 p0362 N84-12355
Microgravity silicon zoning investigation
[NASA-CR-170919] 04 p0488 N84-13207
Cosmonauts use new instruments for Earth study
05 p0633 N84-14162
Elektrotopograf experiment on Salyut-7
05 p0633 N84-14163
Highlights of the electron beam experiments in space in Japan 05 p0637 N84-14191
Electron beam experiments aboard the Space Shuttle
05 p0638 N84-14195
Critical velocity experiments in space
05 p0639 N84-14203
Modeling of modification experiments involving neutral gas release — from space shuttles
05 p0640 N84-14209
Rocket exhaust effects as active space plasma experiments of opportunity 05 p0640 N84-14211
Electrodynamic tether experiments in the ionosphere
05 p0642 N84-14222
Spaceborne radar research in the 1980's
07 p0990 N84-16417
The US space station: Potential base for a spaceborne microwave facility 07 p0991 N84-16420
Birth of space plant growing
[NASA-TM-77244] 07 p1042 N84-16756
A new dimension in space experimentation
[NASA-NF-140] 08 p1109 N84-17210
STEP Experiment Requirements
[NASA-CP-2294] 08 p1109 N84-17211
The STEP/STACBEAM experiment technology development for very large solar array deployers
08 p1110 N84-17220
General requirements for Shuttle flight experiments
08 p1110 N84-17221
Thermal energy management process experiment
08 p1110 N84-17222
Canadian Attitude Sensing Experimental Package (CASEP) 08 p1110 N84-17223
Photovoltaic concentrator pointing dynamics and plasma interaction study 08 p1111 N84-17224
A deployable structure and solar array controls experiment for STEP 08 p1111 N84-17227
Vibration isolation technology experiment
08 p1111 N84-17228
STEP flight experiments Large Deployable Reflector (LDR) telescope 08 p1112 N84-17231
Large deployable antenna flight experiment for the Space Technology Experiments Platform (STEP)
08 p1112 N84-17232
Large inflated-antenna system
08 p1112 N84-17234
Adaptive microwave reflector
08 p1112 N84-17235
Microwave reflector characterization using simple instruments in EVA 08 p1112 N84-17236
Flight test of a synthetic aperture radar antenna using STEP 08 p1113 N84-17237
Concept study of an automatic ellipsoidal mirror furnace facility, prephase A. Volume 1: Executive summary
[ERC-RP-200-DS-009-VOL-1] 08 p1141 N84-17423
Concept study of an automatic ellipsoidal mirror furnace facility, prephase A. Volume 2: Technical descriptions
[ERC-RP-200-DS-009-VOL-2] 08 p1141 N84-17424
Feasibility study of an automatic protein growth facility using the retrievable carrier — EURECA project
[MBB-URV-131(82)] 09 p1263 N84-18246
Cosmonaut training 09 p1264 N84-18250
Biomedical experiments on Soviet-French flight
09 p1264 N84-18254
Development of space botany experiments
09 p1264 N84-18255
Space station needs, attributes and architectural options study. Volume 2: Mission analysis
[NASA-CR-173333] 09 p1266 N84-18266
Space Station needs, attributes and architectural options. Volume 2, book 1, part 2, task 1: Mission requirements
[NASA-CR-173313] 09 p1270 N84-18297
Space Station needs, attributes and architectural options. Volume 2, book 1, part 4: Payload element mission data sheets
[NASA-CR-173315] 09 p1270 N84-18299
EURECA: An introduction to Europe's free-flying retrievable carrier
[ESA-BR-16] 09 p1272 N84-18308
Mammalian gravity receptors: Structure and metabolism 09 p1353 N84-18840
The effects of spaceflight on the mineralization of rat incisor dentin 09 p1353 N84-18845
Microgravity as an additional tool for research in human physiology with emphasis on sensorimotor systems
[ESA-BR-15] 09 p1362 N84-19900
Study of a tracking and data acquisition system for the 1990's. Volume 1: User community characteristics
[NASA-CR-175194] 10 p1433 N84-19370
Outline and evaluation of a spaceborne sodium heat pipe furnace with three compartments
10 p1440 N84-19407
Results from first series of Elektrotopograf experiments 12 p1774 N84-21570
Feasibility study to conduct windblown sediment experiments aboard a space station
[NASA-CR-175434] 12 p1776 N84-21586
Preliminary design of two Space Shuttle fluid physics experiments
[NASA-CR-174849] 14 p2114 N84-23667
Finite-difference fluid dynamics computer mathematical models for the design and interpretation of experiments for space flight — atmospheric general circulation experiment, convection in a float zone, and the Bridgman-Stockbarger crystal growing system
[NASA-TP-2323] 14 p2144 N84-23852
Long Duration Exposure Facility (LDEF). Mission 1 Experiments
[NASA-SP-473] 15 p2270 N84-24632
Introduction to Long-Duration Exposure Facility
15 p2270 N84-24633
Growth of crystals from solutions in low gravity (A0139A) 15 p2270 N84-24634
Atomic-oxygen stimulated outgassing (A0034)
15 p2271 N84-24635
Interaction of atomic oxygen with solid surfaces at orbital altitudes (A0114) 15 p2271 N84-24636
Influence of extended exposure in space on mechanical properties of high-toughness graphite-epoxy composite material (A0019) 15 p2271 N84-24637
Effect of space environment on space-based radar phased-array antenna (A0133) 15 p2271 N84-24638
Space exposure of composite materials for large space structures (A0134) 15 p2271 N84-24639
Effect of space exposure of some epoxy matrix composites on their thermal expansion and mechanical properties (A0138-8) 15 p2272 N84-24640
The effect of the space environment on composite materials (A0138-9) 15 p2272 N84-24641
Microwelding of various metallic materials under ultravacuum (A0138-10) 15 p2272 N84-24642
Evaluation of long-duration exposure to the natural space environment on graphite-polyimide and graphite-epoxy mechanical properties (A0175)
15 p2272 N84-24643
The effect of space environment exposure on the properties of polymer matrix composite materials (A0180) 15 p2272 N84-24644
Space environment effects on spacecraft materials (M0003) 15 p2272 N84-24645
Balloon materials degradation (S1006)
15 p2273 N84-24646
Thermal control coatings experiment (A0138-6)
15 p2273 N84-24647
Exposure of spacecraft coatings (S0010)
15 p2273 N84-24648
Thermal control surface experiment (S0069)
15 p2273 N84-24649
Ion-beam-textured and coated surfaces experiment (S1003) 15 p2273 N84-24650
Cascade variable-conductance heat pipe (A0076)
15 p2274 N84-24651
Low-temperature heat pipe experiment package (HEPP) for LDEF (S1001) 15 p2274 N84-24652
Transverse flat-plate heat pipe experiment (S1005)
15 p2274 N84-24653
LDEF thermal measurements system (P0003)
15 p2274 N84-24654
Space plasma high-voltage drainage experiment (A0054) 15 p2274 N84-24655
Solar-array-materials passive LDEF experiment (A0171) 15 p2274 N84-24656
Advanced photovoltaic experiment (S0014)
15 p2274 N84-24657
Investigation of critical surface degradation effects on coatings and solar cells developed in Germany (S1002)
15 p2275 N84-24658
Space aging of solid rocket materials (P0005)
15 p2275 N84-24659
Interstellar-gas experiment (A0038)
15 p2275 N84-24660
A high-resolution study of ultra-heavy cosmic-ray nuclei (A0178) 15 p2275 N84-24661
Heavy ions in space (M0001)
15 p2275 N84-24662

Trapped-proton energy spectrum determination (M0002-1) 15 p2276 N84-24663
Measurement of heavy cosmic-ray nuclei on LDEF (M0002-2) 15 p2276 N84-24664
Linear energy transfer spectrum measurement experiment (P0006) 15 p2276 N84-24665
Multiple-foil microabrasion package (A0023) 15 p2276 N84-24666
Study of meteoroid impact craters on various materials (A0138-1) 15 p2276 N84-24667
Attempt at dust debris collection with stacked detectors (A0138-2) 15 p2276 N84-24668
The chemistry of micrometeoroids (A0187-1) 15 p2276 N84-24669
Chemical and isotopic measurements of micrometeoroids by secondary ion mass spectrometry (A0187-2) 15 p2276 N84-24670
Interplanetary dust experiment (A0201) 15 p2277 N84-24671
Space debris impact experiment (S0001) 15 p2277 N84-24672
Meteoroid damage to spacecraft 15 p2277 N84-24673
Free-flyer biostack experiment 15 p2277 N84-24674
Seeds in space experiment (P0004-1) 15 p2277 N84-24675
Space-exposed experiment developed for students 15 p2277 N84-24676
Holographic data storage crystals for LDEF (A0044) 15 p2277 N84-24677
Exposure to space radiation of high-performance infrared multilayer filters and materials technology experiments (A0056) 15 p2277 N84-24678
Effect of space exposure on pyroelectric infrared detectors (A0135) 15 p2278 N84-24679
Thin metal film and multilayers experiment (A0138-3) 15 p2278 N84-24680
Vacuum-deposited optical coatings experiment (A0138-4) 15 p2278 N84-24681
Ruled and holographic gratings experiment (A0138-5) 15 p2278 N84-24682
Optical fibers and components experiment (A0138-7) 15 p2278 N84-24683
Passive exposure of Earth radiation budget experiment components (A0147) 15 p2278 N84-24684
Effects of solar radiation on glasses 15 p2279 N84-24685
Study of factors determining the radiation sensitivity of quartz crystal oscillators (A0189) 15 p2279 N84-24686
Space environment effects on fiber optics systems 15 p2279 N84-24689
Space environment effects (M0006) 15 p2279 N84-24690
The 16th Aerospace Mechanisms Symposium [NASA-CP-2311] 15 p2346 N84-25076
The design and development of a release mechanism for space shuttle life-science experiments 15 p2347 N84-25079
Actuator development for the Instrument Pointing System (IPS) 15 p2347 N84-25080
A robust pseudo-inverse spectral filter applied to the Earth Radiation Budget Experiment (ERBE) scanning channels [NASA-TM-85781] 15 p2370 N84-25219
Living and working in space. A history of Skylab [NASA-SP-4208] 16 p2454 N84-25737
Application of surface acoustic wave devices to radio telemetry [NASA-CR-173597] 16 p2457 N84-25756
Applications of laser for climatology and atmospheric research [BLEV-R-85.169-5] 16 p2529 N84-26237
Fundamentals of spaceborne remote sensing: Applications of lasers, volume 1 16 p2529 N84-26238
An experiment proposed and set up by the readers will be flying on board the Shuttle; these are the rules of the game; the experiments of others [NASA-TM-77102] 17 p2612 N84-26718
Space results on the solidification of immiscible alloys 17 p2612 N84-26722
First results of a MAUS experiment to investigate the stability of a metallic dispersion 17 p2612 N84-26724
Get away special experimenter's symposium [NASA-CP-2324] 18 p2799 N84-27758
Results of the Purdue University GAS-1 payload 18 p2799 N84-27760
Arc discharge convection studies: A Space Shuttle experiment 18 p2799 N84-27761
Crystal growth of artificial snow 18 p2799 N84-27763
Getaway Special competition: Overview 18 p2799 N84-27764
El Paso/Ysleta schools Get-Away Special Space Shuttle student projects 18 p2799 N84-27766
Gypsy moths and American dog ticks: Space partners 18 p2800 N84-27768
Space station needs, attributes and architectural options study. Volume 7-1: Data book. Science and applications missions [NASA-CR-173702] 18 p2804 N84-27795
Space station needs, attributes and architectural options study. Volume 7-2: Data book. Commercial missions [NASA-CR-173719] 18 p2804 N84-27797
Reaction kinetics in glass melts. Corrosion of SiO-2. TEXUS 4 project 18 p2819 N84-27900
Report in interplanetary space physics [ISFI-84-8] 18 p2950 N84-28708
Criteria for efficiency of experiments in remote sensing 19 p2978 N84-28876
MEA/A-1 experiment 81F01 conducted on STS-7 flight, June 1983. Containerless processing of glass forming melts [NASA-CR-171048] 19 p2997 N84-28993
Optimized He 2 cooling systems for space application. Behavior and handling of superfluid helium at g = 0, phase 2 [BMFT-FB-W-84-006] 19 p3025 N84-29185
Trace constituents measurements deduced from spectrometric observations onboard Spacelab [AERONOMICA-ACTA-A-286-1984] 20 p3239 N84-30585
Testing of coatings in space, Long Duration Exposure Facility (LDEF) [BMFT-FB-W-84-017] 21 p3353 N84-31269
The annular flow electrothermal ramjet [NASA-CR-174704] 21 p3354 N84-31275
Study of proton and neutron activation of metal samples in low Earth orbit [NASA-CR-171113] 21 p3430 N84-31763
Empirical studies of upper atmospheric species [NASA-CR-172437] 21 p3443 N84-31847
Stand on space station participation to be surveyed 23 p3732 N84-33658
Separator qualification for aerospace nickel-cadmium cells 23 p3737 N84-33682
Planetary Data Workshop, part 1 [NASA-CP-2343-PT-1] 23 p3841 N84-34366
In situ data 23 p3842 N84-34372
Radio science 23 p3842 N84-34373
Space Station Needs, Attributes and Architectural Options. Contractor orientation briefings [NASA-CR-173999] 24 p3859 N84-34460
Space simulation testing of the Earth Radiation Budget Satellite (ERBS) 24 p3861 N84-34471
Fabrication of glass gas cells for the HALOE and MAPS satellite experiments [NASA-TM-86302] 24 p3866 N84-34501
Future of laser interferometry in space 24 p3906 N84-34737
Interactive digital signal processor [NASA-TM-83997] 24 p3944 N84-34974

SPACEBORNE LASERS
Generation of ultra-short laser pulses in the visible and near infrared for a spaceborne laser ranging transmitter 24 p3906 N84-34740
Circular-scan photochron streak camera for spaceborne laser ranging applications 24 p3906 N84-34741
Space/Airborne Laser Ranging (SALR) as complement to groundbased transportable Satellite Laser Ranging (SLR) — crystal dynamics 24 p3906 N84-34742

SPACEBORNE PHOTOGRAPHY
NT SATELLITE-BORNE PHOTOGRAPHY
Investigation of encryptation for satellite communications [FOA-C-30300-E1] 08 p1146 N84-17457
Requirements for spaceborne remote sensing in geology 08 p1175 N84-17657
Environmental satellite imagery, October 1983 [PB84-160001] 14 p2181 N84-24068
Deep crustal structure on space images 19 p2977 N84-28869
Sensing of factors involved in development of exogenous processes on space photographs of arid territories 19 p2977 N84-28870
Structural-geomorphological interpretation of lineaments detected from space photographs and patterns of mineral distribution 19 p2977 N84-28871
Automated search for control images on photographs of Earth's surface using spectral analysis 19 p2978 N84-28874
Cosmonaut Berezovoy's memoirs on 211-day spaceflight 21 p3347 N84-31231
Phobos: Close encounter imaging from the Viking Orbiters [NASA-RP-1109] 21 p3525 N84-32330
Mesoscale observations of lightning from Space Shuttle [NASA-TM-86451] 22 p3598 N84-32788
Flight performance of the Spacelab metric camera experiment 23 p3764 N84-33858
Analysis of the metric camera black and white images over Italy 23 p3764 N84-33859
Modular Optoelectronic Multispectral Scanner (MOMS) program outline and future aspects 23 p3764 N84-33861
The information network for a real-time controlled data acquisition of the Modular Optoelectronic Multispectral Scanner (MOMS) 23 p3765 N84-33863
Modular Optoelectronic Multispectral Scanner (MOMS) data of Bolivia: Comparison with LANDSAT Multispectral Scanner (MSS) and geological interpretation 23 p3765 N84-33865
Modular Optoelectronic Multispectral Scanner (MOMS), interpretation and evaluation of the MOMS-image Arica, west coast of South America 23 p3765 N84-33866
The Pilbara district in northwestern Australia: A case study for the geological application of Modular Optoelectronic Multispectral Scanner (MOMS) and LANDSAT data 23 p3765 N84-33867
Fast automatic reconnaissance in land observations images by means of analog and/or digital images 23 p3768 N84-33885
Multitemporal LANDSAT urban area classification 23 p3768 N84-33886
A splash and sheet erosion model from LANDSAT data 23 p3771 N84-33903
Stereo methods in satellite meteorology 23 p3776 N84-33936

SPACEBORNE TELESCOPES
NT HUBBLE SPACE TELESCOPE
NT SOLAR OPTICAL TELESCOPE
Concept study phase A2 for the solar spectrograph PETRA [BMFT-FB-W-83-014] 07 p1008 N84-16540
Spectral slicing X-ray telescope with variable magnification [NASA-CASE-MFS-25942-1] 07 p1089 N84-17084
ROSAT-FI design review [MPE-39] 08 p1109 N84-17209
STEP flight experiments Large Deployable Reflector (LDR) telescope 08 p1112 N84-17231
The effect of mass and stiffness changes on the damping factor in a large space structure as represented by the CSDL 2 model [AD-A136984] 10 p1449 N84-19465
Self-indexing latch system [NASA-CASE-MFS-25956-1] 11 p1664 N84-20860
Optical coating in space [NASA-CR-175441] 11 p1731 N84-21290
Infrared emission associated with chemical reactions on Shuttle and SIRTF surfaces [NASA-TM-85875] 12 p1921 N84-22515
The Advanced X-ray Astrophysics Facility. Observing the universe in X-rays [NASA-EP-199] 12 p1921 N84-22517
Dual aperture multispectral Schmidt objective [NASA-CASE-GSC-12756-1] 13 p2042 N84-23248
Department of Housing and Urban Development Appropriations Bill, 1984 [H-REPT-98-803] 14 p2249 N84-24508
A stochastic model for photon noise induced by charged particles in multiplier phototubes of the space telescope fine guidance sensors [NASA-TP-2337] 16 p2556 N84-26398
National Aeronautics and Space Administration 16 p2568 N84-26477
Proceedings of the Large Deployable Reflector Science and Technology Workshop. Volume 1: Executive Summary [NASA-CP-2275-VOL-1] 18 p2950 N84-28709
Minor planet observations and a dynamical reference system 19 p3120 N84-29828
Observations of faint planetary satellites with a charge-coupled device 19 p3120 N84-29832
Results from Astron satellite after one year in orbit 21 p3347 N84-31233
Simulation requirements for the Large Deployable Reflector (LDR) [NASA-CR-171140] 21 p3523 N84-32317
Large Deployable Reflector Science and Technology Workshop. Volume 3: Systems and Technology Assessment [NASA-CP-2275-VOL-3] 21 p3523 N84-32318
Large Deployable Reflector Science and Technology Workshop. Volume 3: Systems and technology assessment. Introduction 21 p3523 N84-32319
Technology Panel reports 21 p3523 N84-32320
Large Deployable Reflector Science and Technology Workshop. Volume 3: Systems and technology assessment. Conclusions 21 p3523 N84-32321
Research relative to high energy astrophysics — large area modular array of reflectors, X-ray spectroscopy, and thermal control [NASA-CR-173878] 22 p3678 N84-33315

Surface analysis of space telescope material specimens
[NASA-CR-171163] 23 p3838 N84-34351
Conceptual design of a hybrid Ge:Ga
[NASA-CR-166605] 24 p3902 N84-34706
Signal-to-noise ratio for the wide field-planetary camera of the Space Telescope
[NASA-TM-86472] 24 p3983 N84-35235

SPACECRAFT

A general computer model for predicting the performance of gas sorption refrigerators
06 p0820 N84-15349
Space probe/satellite ejection apperatus for spacecraft
[NASA-CASE-MFS-15429-1] 13 p1939 N84-22609
Modification to shock fitting program
[NASA-TM-86097] 16 p2548 N84-26353

SPACECRAFT ANTENNAS

Large deployable antenna flight experiment for the Space Technology Experiments Platform (STEP)
06 p1112 N84-17232
Large inflated-antenna system
06 p1112 N84-17234
Study on large, ultralight long-life structures in space, phase 2C
[TM-EKR3] 06 p1120 N84-17284
Airborne antenna pattern calculations
[NASA-CR-173264] 08 p1143 N84-17436
Spline-based estimation techniques for parameters in elliptic distributed systems
[NASA-TM-85439] 06 p1218 N84-17947
Decoupled control analysis of a large flexible space antenna with linear quadratic regulator comparisons
[NASA-TP-2293] 14 p2115 N84-23675
The design and development of two-failure tolerant mechanisms for the Spaceborne Imaging Radar (SIR-B) antenna
15 p2348 N84-25087
Effects of spacecraft reflections on RF interferometer position location accuracy
[NASA-CR-175244] 18 p2828 N84-27955
Autonomous omnidirectional spacecraft antenna system
[NASA-CR-175128] 18 p2832 N84-27960
Potential surface improvements by bump removal for 64-m antenna
22 p3573 N84-32627
Structural design of a vertical antenna boresight 18.3 by 18.3-m planar near-field antenna measurement system
[NASA-TM-83781] 22 p3597 N84-32783

SPACECRAFT CABIN ATMOSPHERES

The Spacelab Atmosphere Storage and Control Section (ASCS) and its orbiter common hardware flight performance
10 p1443 N84-19427
Spacelab/Orbiter atmosphere revitalization subsystem commonality and flight experience
10 p1443 N84-19428
Decompression mechanisms and decompression schedule calculations
[AD-A137868] 11 p1695 N84-21060

SPACECRAFT CABIN SIMULATORS

Spacecraft simulators
09 p1264 N84-18252

SPACECRAFT CHARGING

Plasma source for spacecraft potential control
[NASA-CR-174552] 01 p0028 N84-10177
Numerical simulation of spacecraft charging phenomena at high altitude
[AD-A130043] 01 p0028 N84-10178
The high zenith angle limits of cosmic ray access to an Earth satellite
[AD-A130216] 01 p0166 N84-11092
Electron beam experiments aboard the Space Shuttle
05 p0638 N84-14195
Space experiments with particle accelerators (SEPAC). Science problems of SEPAC/Spacelab 1 mission
05 p0641 N84-14221
Proton electrostatic analyzer
[AD-A133588] 06 p0848 N84-15528
Radiating dipole model of interference induced in spacecraft circuitry by surface discharges
[NASA-TP-2240] 07 p0964 N84-16247
Spacecraft/plasma interactions and their influence on field and particle measurements — conferences
[ESA-SP-196] 08 p1115 N84-17253
A review of SCATHA satellite results: Charging and discharging
08 p1115 N84-17254
Probe measurement of DC electric fields — SCATHA satellite charging
08 p1116 N84-17255
Anomalously high potentials observed on ISEE
08 p1116 N84-17258
Charging effects observed on Voyager 1 near Jupiter
08 p1116 N84-17260
Ion measurements on GEOS using a negatively biased sensor on a positively charged spacecraft
08 p1117 N84-17263
Contributions to satellite sheath and wake modeling
08 p1117 N84-17266
NASCAP simulations of spacecraft charging of the SCATHA satellite — NASA (spacecraft) charging analyzer program (NASCAP)
08 p1117 N84-17268
The role of potential barrier formation in spacecraft charging
08 p1118 N84-17269
Laboratory measurement of impact ionization
08 p1118 N84-17271
A model of electrostatic charging and sheath structure of GIOTTO near Halley's comet
08 p1118 N84-17274
The concepts of critical temperature and energy cutoff of ambient electrons in high voltage charging of spacecraft
08 p1119 N84-17275
A potential control method for thermal plasma measurements on the DE-1 spacecraft
08 p1119 N84-17276
Methods for keeping a conductive spacecraft near the plasma potential
08 p1119 N84-17277
Active control of the potential of ISEE-1 by an electron gun
08 p1119 N84-17278
Sheath ionization model of beam emissions from large spacecrafts
[AD-A137181] 10 p1448 N84-19463
Further development of a computer algorithm for the automatic determination of space vehicle potential in real time
[AD-A137041] 10 p1571 N84-20292
Analysis of spacecraft charging, particle beams and geophysical data bases
[AD-A136632] 13 p1940 N84-22616
A probe for measuring spacecraft surface potentials using a direct-gate field effect transistor
[AD-A140024] 15 p2283 N84-24706
Literature review of spacecraft charging
[AD-A140543] 16 p2458 N84-25761
Proceedings of the Air Force Geophysics Laboratory Workshop on Natural Charging of Large Space Structures in Near Earth Polar Orbit
[AD-A134894] 16 p2521 N84-26185
An overview of charging of large space structures in polar orbit
[AD-P002100] 16 p2521 N84-26186
Ionospheric characteristics: A review
[AD-P002101] 16 p2521 N84-26187
Is there a good way to model spacecraft charging in the presence of space-charge coupling, flow and magnetic fields?
[AD-P002102] 16 p2521 N84-26188
Charged particle effects on space systems
[AD-P002103] 16 p2522 N84-26189
Space Shuttle charging results
[AD-P002104] 16 p2522 N84-26190
STS-3/OSS-1 Plasma Diagnostics Package (PDP) measurements of Orbiter-generated V x B potentials and electrostatic noise
[AD-P002105] 16 p2522 N84-26191
Electron beam experiments and other observations from STS-3
[AD-P002106] 16 p2522 N84-26192
Floating potentials and the hot plasma generated by an electron-beam-emitting rocket in the ionosphere
[AD-P002107] 16 p2522 N84-26193
The worst case charging environment
[AD-P002108] 16 p2522 N84-26194
Environmental interactions of polar orbiting satellites
[AD-P002110] 16 p2523 N84-26196
Interactions between a large body and its environment in a low polar orbit
[AD-P002111] 16 p2523 N84-26197
Observations of differential charging with METEOSAT
[AD-P002112] 16 p2523 N84-26198
Laboratory and space measurements of materials
[AD-P002113] 16 p2523 N84-26199
Space electron-induced discharge coupling into satellite electronics
[AD-P002114] 16 p2523 N84-26200
Shuttle Orbiter charging in polar Earth orbit
[AD-P002116] 16 p2524 N84-26202
Potential barriers and multiple roots in spacecraft charging
[AD-P002117] 16 p2524 N84-26203
Mechanisms that limit potentials on ionospheric satellites
[AD-P002118] 16 p2524 N84-26204
The importance of neutrals, transient effects, and the Earth's magnetic field on sheath structure
[AD-P002119] 16 p2524 N84-26205
The threshold temperature effect in high-voltage spacecraft charging
[AD-P002120] 16 p2524 N84-26206
Polar code development
[AD-P002122] 16 p2524 N84-26208
High voltage solar array models and Shuttle tile charging
[AD-P002123] 16 p2525 N84-26209
Space systems environmental interactions technology program
[AD-P002125] 16 p2525 N84-26211
Summary of experimental results
[AD-P002128] 16 p2525 N84-26212
Questions that need to be answered
[AD-P002127] 16 p2525 N84-26213
A stochastic model for photon noise induced by charged particles in multiplier phototubes of the space telescope fine guidance sensors
[NASA-TP-2337] 16 p2556 N84-26398
TOPEX orbital radiation study
[NASA-TM-85447] 16 p2582 N84-26562
Space charge around conductors at high potential magnetoplasma
[IFSI-84-4] 18 p2934 N84-29608
Electron charging and SGEMP (System Generated Electromagnetic Pulse) studies on satellite dielectrics
[AD-A143012] 21 p3353 N84-31268
Design guidelines for assessing and controlling spacecraft charging effects
[NASA-TP-2361] 23 p3700 N84-33452

SPACECRAFT COMMUNICATION

Geometric models, antenna gains, and protection ratios as developed for BC SAT-R2 conference software
[NASA-TM-83381] 02 p0208 N84-11358
A simple model for the depolarizing effects of rain and ice on Earth-satellite links in the 10 to 30 GHz frequency range
[NASA-CR-174482] 02 p0211 N84-11382
The 30 GHz communications satellite low noise receiver
[NASA-CR-168254] 04 p0517 N84-13398
An analysis of noise and interference in a satellite based mobile communications system
05 p0665 N84-14369
Research in adaptive beamforming for satellite communications
[AD-A133733] 05 p0668 N84-14396
Pluribus satellite IMP (Interface Message Provision) development mobile access terminal network
[AD-A132690] 05 p0670 N84-14405
Effects of cochannel interference on QPSK systems in a nonlinear satellite channel 05 p0671 N84-14414
Phased-array-fed antenna configuration study, volume 2
[NASA-CR-168232] 07 p0991 N84-16424
Modular approach for satellite communication ground terminals
[NASA-CR-168327] 07 p0991 N84-16425
Carrier acquisition and tracking by a COSTAS-loop with automatic frequency control
[DFVLR-FB-83-24] 08 p1108 N84-17202
User manual of the CATSS system (version 1.0) communication analysis tool for space station
[NASA-CR-171726] 08 p1142 N84-17431
Investigation of encryptation for satellite communications
[FOA-C-30300-E1] 08 p1146 N84-17457
Correlative phase modulation for fixed satellite services, volume 1 (phase 1)
[PTI-SS-2363-21-3505-VOL-1] 08 p1147 N84-17465
FM spectral modeling and FDM/FM simulation programs
[PB84-118934] 08 p1147 N84-17469
The 20 GHz spacecraft FET solid state transmitter
[NASA-CR-168240] 08 p1149 N84-17477
V-band integrated quadriphase modulator
[NASA-CR-175159] 08 p1149 N84-17480
Space Station Technology, 1983
[NASA-CP-2293] 09 p1268 N84-18277
Communications
09 p1269 N84-18285
Pluribus satellite IMP (Interface Message Provision) development mobile access terminal network
[AD-A136256] 09 p1298 N84-18486
Study of a Tracking and Data Acquisition System (TDAS) in the 1990's
[NASA-CR-173262] 10 p1433 N84-19368
Study of a tracking and data acquisition system for the 1990's. Volume 3: TDAS Communication Mission Model
[NASA-CR-175195] 10 p1434 N84-19371
Implementation of large antennas for deep space mission support
10 p1475 N84-19636
High efficiency IMPATT diodes for 60 GHz intersatellite link applications
[NASA-TM-83584] 10 p1485 N84-19706
The research on short backfire antenna
[AD-A137209] 10 p1485 N84-19712
Development and qualification of a 20 GHz/30 W traveling wave tube — for satellites
[BMFT-FB-W-83-023] 10 p1488 N84-19727
An Attached Payload Operations Center (APOC) at the Goddard Space Flight Center (GSFC), volume 1
[NASA-CR-175160] 11 p1620 N84-20605

Low noise microwave frequency synthesizers
[INPE-2796-PRE/358] 11 p1642 N84-20733
Authorizing appropriations to the National Aeronautics and Space Administration for fiscal year 1985
[H-REPT-98-629] 11 p1753 N84-21441
Benefits from satellite programs cited 12 p1776 N84-21584
The effects of aperture antennas after signal propagation through anisotropic ionized media
[AD-A136286] 12 p1807 N84-21781
The use of dual-polarization radar data to predict attenuation from precipitation on Earth-space paths
[ESA-CR(P)-1845] 12 p1809 N84-21796
Users' manual for computer program for three-dimensional analysis of coupler-cavity traveling wave tubes
[NASA-CR-168269] 14 p2141 N84-23841
Adaptive arrays for satellite communications
[NASA-CR-173548] 15 p2320 N84-24924
Study of in-orbit test techniques for multibeam satellites
[LL3-17] 16 p2456 N84-25748
Design of a CO2 laser transceiver package for space-to-space optical communication
[BLEV-R-64.225] 16 p2482 N84-25913
Marshall Amateur Club experiment (MARCE) 18 p2800 N84-27767
Space Station needs, attributes and architectural options study. Volume 7-4A: Data book, architecture, technology and programmatics, part A
[NASA-CR-173686] 18 p2804 N84-27799
Test results for 27.5- to 30-GHz communications satellite receivers
[NASA-TM-83682] 18 p2828 N84-27954
Land Mobile Satellite Service (LMSS) channel simulator: An end-to-end hardware simulation and study of the LMSS communications links
[NASA-CR-173744] 18 p2828 N84-27956
V-band IMPATT transmitter
[NASA-CR-175249] 18 p2832 N84-27976
Integrated use of radar and satellite data — rain attenuation 18 p2888 N84-28334
Comments on goals of 'Soyuz T-10' flight 19 p2970 N84-28825
Acquisition cost analysis for the near term military application of laser versus millimeter wave for satellite crosslink communications
[AD-A141061] 19 p3004 N84-29037
Development of a 30 GHz/10 W traveling wave tube
[BMFT-FB-W-84-004] 19 p3019 N84-29142
Colocation stationkeeping of geostationary satellites 19 p3121 N84-29636
Space research in Pakistan: A relentless pursuit 21 p3346 N84-31227
Reflector antennas with low sidelobes, low cross polarization, and high aperture efficiency
[NASA-CR-174670] 21 p3383 N84-31464
A conformal SHF phased array for aircraft satellite communication
[AD-P003509] 21 p3384 N84-31477
Telecommunications and data acquisition support for the Pioneer Venus Project: Pioneers 12 and 13, prelaunch through March 1984
[NASA-CR-173893] 22 p3539 N84-32403
Symbol-stream combiner: Description and demonstration plans 22 p3574 N84-32632
A strategy for successful deep space information transmission in bad weather 22 p3574 N84-32635
Characteristics and capacities of the NASA Lewis Research Center high precision 6.7- by 6.7-m planar near-field scanner
[NASA-TM-83785] 22 p3596 N84-32789
Satellite communication of real-time packet video images
[AD-A143813] 23 p3730 N84-33643
Perspectives on European satellite communications 23 p3732 N84-33659
Timing performance of phased-locked loops in optical pulse position modulation communication systems
[NASA-CR-173970] 23 p3824 N84-34253
Prospects of laser communications in space 24 p3903 N84-34718
Intersatellite links: Requirements for future missions and limitations from spacecraft resources 24 p3904 N84-34723
High reliability semiconductor lasers for data links between satellites 24 p3904 N84-34724
Technologies for intersatellite optical communications 24 p3904 N84-34727
Characterization of high powered laser diodes — spacecraft communication 24 p3904 N84-34728
Experimental assessment of semiconductor lasers for optical data links in space 24 p3905 N84-34729
Optical data links for the STAR mission 24 p3905 N84-34730
A CO2 laser transceiver package with Gbit/sec capability for space-to-space communications 24 p3905 N84-34731
Receiver concepts for data transmission at 10 microns — between satellites 24 p3905 N84-34732
The concept of the Low Intermediate Frequency Translation Loop (LIFTL) and its application on a CO2 laser intersatellite data link system 24 p3905 N84-34733
Accomodation of candidate laser communication links on selected spacecraft configurations 24 p3905 N84-34734

SPACECRAFT COMPONENTS
NT SERVICE MODULES
NT SPACECRAFT DOCKING MODULES
NT SPACECRAFT MODULES
Spacecraft-borne long life cryogenic refrigeration: Status and trends 06 p0818 N84-15331
Analysis of a high-frequency Stirling Cycle compressor for cryogenic cooling in space
[NASA-TM-85066] 06 p0852 N84-15555
Activities report of the European Space Tribology Laboratory (ESTL)
[ESA-ESTL-55] 06 p0853 N84-15563
First European Space Mechanics and Tribology Symposium
[ESA-SP-196] 09 p1294 N84-18454
Sliding electric contacts in space: Observations on existing technology and new trends in low-speed applications 09 p1294 N84-18455
Design and development of an advanced solar array drive mechanism 09 p1294 N84-18457
The Giotto mechanisms and their functions 09 p1294 N84-18459
Failure mode prediction analysis using the Reliability Information Software (RIF) — spacecraft components 09 p1295 N84-18463
The stiffness torque and thermal conductance of thin-sector four-point contact ball bearings for use in spacecraft mechanisms 09 p1295 N84-18465
Computational methods for ball bearings in spacecraft 09 p1295 N84-18466
The tribology of gears for satellite applications 09 p1296 N84-18470
A rationale for the testing of space mechanisms 09 p1296 N84-18471
Achievement of reliability by thermal vacuum testing of spacecraft mechanisms 09 p1296 N84-18472
Computerised data acquisition and control methods as related to mechanisms testing — spacecraft mechanisms 09 p1296 N84-18473
A high resolution stepping motor — for spacecraft applications 09 p1297 N84-18476
The usefulness of impact dampers for space applications
[AD-A135695] 09 p1332 N84-18697
Design and manufacturing of a heat rejection system for advanced thermal control — spacecraft and or payload cooling 10 p1444 N84-19434
Development of a thermal controller for space application 10 p1445 N84-19437
Flexible radiator system: Executive summary
[NASA-CR-171766] 11 p1623 N84-20624
Aerospace vehicle
[NASA-CASE-LAR-13155-1] 11 p1624 N84-20628
Development of procedures for component mode synthesis
[DFVLR-IB-232-82-C-09] 12 p1782 N84-21626
Apparatus for releasably connecting first and second objects in predetermined space relationship
[NASA-CASE-MSC-18969-1] 13 p1938 N84-22605
High voltage-high power components for large space power distribution systems
[NASA-TM-83648] 13 p1940 N84-22615
Experimental measurement of material damping for space structures in simulated zero-g
[AD-A139215] 14 p2120 N84-23703
Meteoroid damage to spacecraft 15 p2277 N84-24673
Procurement of materials required to fabricate and test space-qualified quadrant photo tubes for the SHAD satellite sensor
[AD-A139662] 15 p2280 N84-24696
Summary of environmentally induced electrical discharges on the P78-2 (SCATHA) satellite
[AD-A140077] 15 p2282 N84-24705
An improved ion drift meter
[AD-A140043] 15 p2283 N84-24707
The importance of thermal-vacuum testing in achieving high reliability of spacecraft mechanisms 15 p2347 N84-25085
Flammability testing for the screening of space materials
[ESA-PSS-01-721-ISSUE-1] 16 p2463 N84-25787
The application of the black electrically conductive coating CHEMGLAZE H322
[ESA-PSS-01-734-ISSUE-1] 16 p2471 N84-25834
The oil impregnation of phenolic-resin-based materials used in the fabrication of ball-bearing cages
[ESA-PSS-01-712-ISSUE-1] 16 p2472 N84-25846
Measurement of the peel and pull-off strength of coatings and finishes with pressure-sensitive tapes
[ESA-PSS-01-713-ISSUE-1] 16 p2472 N84-25847
The application of the black paint CHEMGLAZE Z306
[ESA-PSS-01-725-ISSUE-1] 16 p2472 N84-25848
ESA preferred parts list
[ESA-PSS-01-603-ISSUE-1] 16 p2475 N84-25869
Quality assurance of ESA spacecraft and associated equipment
[ESA-PSS-01-20-ISSUE-1] 16 p2499 N84-26036
Reliability assurance of ESA spacecraft
[ESA-PSS-01-30-ISSUE-1] 16 p2500 N84-26038
Study on critical assessment of IR CCD arrays for spaceborne reflected and thermal IR imagers
[ESA-CR(P)-1881] 17 p2616 N84-26744
Weight characteristics of future spacecraft thermal management systems
[AD-A141403] 19 p2982 N84-28895
Low temperature rate controller
[AD-D011029] 19 p2982 N84-28897
Fabrication of pressure vessels from fiber reinforced aluminum by electroforming for space application
[BMFT-FB-W-84-009] 19 p3032 N84-29235
Design, manufacture and tests of a locking and unlocking mechanism, using memory elements (vem); layout, manufacture and testing of a tracking mechanism, using memory elements for locking/unlocking and driving and being suitable for qualification (NFMM) — space flight applications
[BMFT-FB-W-84-012] 19 p3033 N84-29236
Flexible, reellient anti-contamination baffle
[AD-D011111] 22 p3542 N84-32421

SPACECRAFT CONFIGURATIONS
NT SATELLITE CONFIGURATIONS
Space station attitude control system concept and requirements 03 p0344 N84-12234
Space station needs, attributes and architectural options. Part 1: Summary
[NASA-CR-175382] 09 p1267 N84-18270
Space Station needs, attributes and architectural options: Summary briefing
[NASA-CR-173328] 09 p1267 N84-18271
Space station needs, attributes and architectural options study. Briefing material: Final review and executive summary
[NASA-CR-173321] 09 p1267 N84-18273
Space Station needs, attributes and architectural options. Volume 2, book 1, part 1: Mission requirements
[NASA-CR-173312] 09 p1270 N84-18296
Space Station needs, attributes and architectural options. Volume 2, book 2, part 1: Mission implementation concepts
[NASA-CR-173316] 09 p1270 N84-18300
A thermal analyis approach applied in early stages of a program — satellite design 10 p1442 N84-19421
Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-1] 13 p1939 N84-22612
Space Shuttle with rail system and aft thrust structure securing solid rocket boosters to external tank
[NASA-CASE-MFS-25853-1] 18 p2802 N84-27784
Factors that influence space station propulsion requirements 20 p3139 N84-29931
Cost evaluation of space station propulsion system options 20 p3139 N84-29932
Thrust level requirements for space station on-orbit propulsion 20 p3140 N84-29935
Space Station Systems Analysis Study. Volume 1: Executive summary, part 1 and 2
[NASA-CR-161590] 21 p3352 N84-31263
Space Station Systems Analysis Study. Volume 2: Program review report
[NASA-CR-161231] 21 p3352 N84-31264
Space Station Systems Analysis Study. Volume 2: Program options, book 1, parts 1 and 2
[NASA-CR-161927] 21 p3352 N84-31265

SPACECRAFT CONSTRUCTION MATERIALS
Research and technology, 1983
[NASA-TM-85702] 02 p0309 N84-12026
Composite structural materials
[NASA-CR-173259] 08 p1122 N84-17293
Review report of the third year's activities on the study survey of advanced materials — for spacecraft and launch vehicles
[R878] 12 p1790 N84-21675
Solar absorptance and thermal emittance of some common spacecraft thermal-control coatings
[NASA-RP-1121] 14 p2119 N84-23698

AGARD bulletin: Meetings, publications, membership
[AGARD-BUL-84/1] 14 p2252 N84-24527
Space environment effects on spacecraft materials (M0003) 15 p2272 N84-24645
Flammability testing for the screening of space materials
[ESA-PSS-01-721-ISSUE-1] 16 p2463 N84-25787
Material selection for controlling stress-corrosion cracking
[ESA-PSS-01-736-ISSUE-1] 16 p2465 N84-25799
The cleaning of ECCOSORB AN foam
[ESA-PSS-01-727-ISSUE-1] 16 p2473 N84-25849
The industry's materials: SNIAS and general conditions of its environment
[SNIAS-832-502-101] 16 p2475 N84-25865
Outgassing data for selecting spacecraft materials
[NASA-RP-1124] 17 p2617 N84-26751
Repair techniques for celion/LARC-160 graphite/polyimide composite structures
[NASA-CR-3794] 17 p2617 N84-26752
Sputtered coatings for protection of spacecraft polymers
[NASA-TM-83706] 17 p2626 N84-26803
System definition study of deployable, non-metallic space structures
[NASA-CR-171090] 19 p2980 N84-28867
Air force technical objective document FY 85
[AD-A141925] 20 p3312 N84-31033
Surface analysis of space telescope material specimens
[NASA-CR-171163] 23 p3638 N84-34351
A facility for investigating interactions of energetic atomic oxygen with solids 24 p3863 N84-34481
An atomic oxygen facility for studying polymer materials for spacecraft applications 24 p3863 N84-34482
The energy dependence and surface morphology of Kapton (trademark) degradation under atomic oxygen bombardment 24 p3863 N84-34484
Atomic beam system for laboratory simulation of upper atmosphere oxygen atom impact on STS surfaces 24 p3863 N84-34485
LEO atomic oxygen effects on spacecraft materials: STS-5 results
[NASA-TM-86463] 24 p3867 N84-34506

SPACECRAFT CONTAMINATION
Molecular contamination math model support
[NASA-CR-170899] 01 p0026 N84-10174
JANNAF Handbook: Rocket exhaust plume technology. Chapter 6: Spacecraft plume contamination
[AD-A131689] 05 p0644 N84-14236
Atomic-oxygen stimulated outgassing (A0034) 15 p2271 N84-24635
Investigation of critical surface degradation effects on coatings and solar cells developed in Germany (S1002) 15 p2275 N84-24658
The detection of organic contamination of surfaces by infrared spectroscopy
[ESA-PSS-01-705-ISSUE-1] 16 p2462 N84-25780
Contamination and cleanliness control
[ESA-PSS-01-201-ISSUE-1] 16 p2475 N84-25867
Experimental exhaust plume investigation with MBB 10 N bipropellant thruster
[MBB-UR-558-84] 17 p2617 N84-26747
The Spacelab flight unit offgassing test
[ESA-STM-232] 23 p3701 N84-33460
Induced environment contamination monitor: Preliminary results from the Spacelab 1 flight
[NASA-TM-86461] 23 p3701 N84-33461
Contamination measurements during IUS thermal vacuum tests in a large space chamber — IUS equipment support system 24 p3865 N84-34496

SPACECRAFT CONTROL
NT SATELLITE ATTITUDE CONTROL
NT SATELLITE CONTROL
Predicted and flight test results of the performance, stability and control of the space shuttle from reentry to landing 01 p0022 N84-10136
Shuttle ascent GN&C postflight results 01 p0022 N84-10140
The application of aerodynamic uncertainties in the design of the entry trajectory and flight control system of the space shuttle orbiter 01 p0022 N84-10141
Space shuttle descent flight control design requirements and experiments Learned, Pt. 1 p 617-628 01 p0022 N84-10142
Actuator placement considerations for the control of large space structures 02 p0185 N84-11199
An on-board control and supervision system for multiple space mission applications is considered
[INPE-2824-PRE/378] 02 p0208 N84-11354
Spacecraft interface design and its impact on operational support
[ESA-STR-211] 03 p0342 N84-12220
Integrated Power/Attitude Control System (IPACS) technology experiment 08 p1111 N84-17229
Study of Attitude Control and Guidance System (ACGS) for orbit change stage
[ESA-CR(P)-1797] 08 p1120 N84-17285
Cosmonaut training 09 p1264 N84-18250
Spacecraft command-measurement complex 09 p1264 N84-18256
Control of large flexible spacecraft by the independent modal-space control method
[NASA-CR-3760] 09 p1265 N84-18262
Authorizing appropriations to the National Aeronautics and Space Administration for fiscal year 1985
[H-REPT-98-629] 11 p1753 N84-21441
System feasibility study on rendezvous and docking in transfer orbit, volume 1
[PV6-13/82-VOL-1] 12 p1776 N84-21588
System feasibility study on rendezvous and docking in transfer orbit, volume 2
[PRV6-13/82] 12 p1776 N84-21589
Guidance and Control Techniques for Advanced Space Vehicles
[AGARD-CP-350] 15 p2265 N84-24603
Spacecraft control research at NASA 15 p2266 N84-24604
A double gimballed momentum wheel for precision 3-axis attitude control 15 p2266 N84-24606
Multifunction spacecraft attitude estimation and navigation system 15 p2267 N84-24611
A filtered attitude determination system for spacecraft measurement and control 15 p2267 N84-24612
Inertial-optical attitude determination and model following control of maneuvering spacecraft 15 p2267 N84-24613
Docking mechanism for in-orbit assembly and spacecraft servicing 15 p2267 N84-24614
A decentralized active control system for a large flexible structure in space 15 p2268 N84-24622
Space Shuttle separate-surface control-system study
[NASA-TP-2340] 19 p2967 N84-28801
Very low thrust and low chamber pressure GO2/GH2 thruster technology 20 p3136 N84-29910
Dual mode propulsion system engine testing for INTELSAT 20 p3136 N84-29913
An integrated space station propulsion system 20 p3139 N84-29933
Thrust level requirements for space station on-orbit propulsion 20 p3140 N84-29935
ACOSS twelve (active control of space structures)
[AD-A143829] 23 p3701 N84-33458

SPACECRAFT DEFENSE
Peaceful use and self defense in outer space
[AD-P002155] 14 p2138 N84-23820
Workshop on Arms Control in Space
[LC-84-601064] 14 p2248 N84-24505
U. S. ASAT program viewed as element of space militarization policy 19 p2978 N84-28878
Further commentary on U. S. ASAT program 19 p2978 N84-28879

SPACECRAFT DESIGN
NT IPAD
NT SATELLITE DESIGN
System definition Roentgensatellit, phase B 1.2
[BMFT-FB-W-83-010] 03 p0342 N84-12219
Spacecraft interface design and its impact on operational support
[ESA-STR-211] 03 p0342 N84-12220
Space station attitude control system concept and requirements 03 p0344 N84-12234
Research and technology, 1983
[NASA-TM-83540] 04 p0615 N84-14061
ACOSS Fourteen (Active Control of Space Structures)
[AD-A133411] 06 p0795 N84-15181
Study on damping representation related to spacecraft structural design
[EMS5-18/83] 06 p0795 N84-15182
Thermal analysis research applicable to space station technology needs
[NASA-TM-84658] 06 p0834 N84-15426
Study on large, ultralight long-life structures in space, phase 2C
[TM-EKR3] 08 p1120 N84-17284
Space station needs, attributes and architectural options study. Volume 1: Executive study
[NASA-CR-173334] 09 p1266 N84-18265
Space Station needs, attributes, and architectural options study
[NASA-CR-173327] 09 p1267 N84-18274
Space Station needs, attributes and architectural options, volume 2, book 3: Cost and programmatics
[NASA-CR-173320] 09 p1271 N84-18304
Computerised data acquisition and control methods as related to mechanisms testing — spacecraft mechanisms 09 p1296 N84-18473
Environmental and thermal control systems for space vehicles — conferences
[ESA-SP-200] 10 p1439 N84-19396
Future trends in spacecraft thermal control designs 10 p1439 N84-19397
Recent and planned developments at the Goddard Space Flight Center in thermal control technology 10 p1440 N84-19402
Thermal design of the Giotto spacecraft 10 p1441 N84-19412
MANIP and MINIP, new modeling tools for the thermal engineer 10 p1443 N84-19425
The Giotto thermal control shutter 10 p1444 N84-19435
Study of analysis methods concerning launch vehicle and spacecraft structural interaction
[ED-80-295] 12 p1778 N84-21605
Study on synthesis and characterization of large space systems, phase 2. Part 1: Assessment of design verification analytical methods. Volume 1: Mechanical design
[ESA-CR(P)-1779-VOL-1] 12 p1782 N84-21624
Study on synthesis and characterization of large space systems, phase 2. Part 1: Assessment of design verification analytical methods. Volume 2: Thermal design
[ESA-CR(P)-1779-VOL-2] 12 p1782 N84-21625
Development of procedures for component mode synthesis
[DFVLR-IB-232-82-C-09] 12 p1782 N84-21626
Optimization of thermal systems with sensitive optics, electronics, and structures
[NASA-CR-3745] 13 p1939 N84-22808
Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-1] 13 p1939 N84-22812
Multiple point source model for three dimensional plume flow fields 13 p1941 N84-22825
Development of baseline random vibration environment criteria for Shuttle pallet payload subsystems
[NASA-TM-86087] 14 p2113 N84-23666
Multiple-foil microabrasion package (A0023) 15 p2276 N84-24666
Smart motor technology 15 p2349 N84-25096
Hypersonic Aerothermodynamics
[VKI-LS-1984-01] 16 p2440 N84-25656
The next generation of reentry vehicles: NASA's view 16 p2441 N84-25658
Hypersonic test facilities 16 p2441 N84-25661
General introduction. Part 1: The waverider. Origins, evolution and applications. Part 2: Waverider aero-and aerothermodynamics. Part 3: Configuration design. Reentry gliders. Part 4: Configuration design. Cruise/ramjet vehicles 16 p2442 N84-25667
Space station needs, attributes, and architectural options. Volume 1. Executive summary
[NASA-CR-173710] 18 p2806 N84-27816
Control theory of partial differential equations
[AD-A140945] 18 p2924 N84-28541
Aeronautical Engineering: A continuing bibliography with indexes (supplement 175)
[NASA-SP-7037(175)] 19 p2955 N84-28726
Aerospace engineering design by systematic decomposition and multilevel optimization
[NASA-TM-85823] 19 p2962 N84-28775
Comments on goals of 'Soyuz T-10' flight 19 p2970 N84-28825
Interactive systems design and synthesis of future spacecraft concepts
[NASA-TM-86254] 19 p2981 N84-28893
An integrated, optimization-based approach to the design and control of large space structures
[AD-A141856] 19 p2982 N84-28896
Assessment of data handling configuration for on-board operation system definition
[DM55/JPS/JP/321.82] 19 p2982 N84-28898
Tracking and Data Relay Satellite launch recovery mission 20 p3137 N84-29918
Factors that influence space station propulsion requirements 20 p3139 N84-29931
Cost evaluation of space station propulsion system options 20 p3139 N84-29932
An integrated space station propulsion system 20 p3139 N84-29933
Oxygen/hydrogen thrusters for the space station auxiliary propulsion systems 20 p3140 N84-29934
The liquid bipropellant stage concept: Filling the OTV gap 20 p3140 N84-29936
Propulsion issues for advanced orbit transfer vehicles 20 p3140 N84-29937
The potential impact of new power system technology on the design of a manned space station
[NASA-TM-83770] 21 p3354 N84-31272
Electroless-plating technique for fabricating thin-wall convective heat-transfer models
[NASA-TP-2349] 21 p3399 N84-31561

Design guidelines for assessing and controlling spacecraft charging effects
[NASA-TP-2361] 23 p3700 N84-33452
Space Station 23 p3701 N84-33456
Heat rejection system technology demonstration model — spacecraft thermal control
[TD-RP-AI-004] 23 p3701 N84-33459
A study of space station needs, attributes and architectural options
[NASA-CR-173997] 24 p3859 N84-34459
Viking lander: Building a complex spacecraft 24 p3991 N84-35256

SPACECRAFT DOCKING
Manned flight chronology 05 p0633 N84-14160
Development of an autonomous video rendezvous and docking system, phase 3
[NASA-CR-170989] 08 p1115 N84-17249
Image dissector camera system study
[NASA-CR-171759] 11 p1656 N84-20606
System feasibility study on rendezvous and docking in transfer orbit, volume 1
[PV6-13/82-VOL-1] 12 p1776 N84-21588
System feasibility study on rendezvous and docking in transfer orbit, volume 2
[PRV6-13/82] 12 p1776 N84-21589
Shuttle interaction study
[NASA-CR-173400] 12 p1777 N84-21592
Shuttle interaction study extension
[NASA-CR-173998] 12 p1777 N84-21594
Apparatus for releasably connecting first and second objects in predetermined space relationship
[NASA-CASE-MSC-18969-1] 13 p1938 N84-22605
Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-1] 13 p1939 N84-22612
Automated rendezvous and docking: A parametric study
[NASA-TP-2314] 14 p2115 N84-23677
Docking mechanism for in-orbit assembly and spacecraft servicing 15 p2267 N84-24614
The influence of sensor and thruster imperfections on the attitude and position of a spacecraft performing a rendezvous 15 p2267 N84-24615
Control aspects as elaborated in space rendezvous simulations 15 p2268 N84-24616
Soyuz T-10 docks with 'Salyut-7' 19 p2971 N84-28828
Docking of 'Progress-19', mapping and survey work 19 p2971 N84-28831
Rotatable electric cable connecting system
[NASA-CASE-GSC-12899-1] 19 p3011 N84-29085
Detailed system studies on rendezvous and docking
[ERNO-RX-015-2/83] 23 p3697 N84-33427
Detailed system studies on rendezvous and docking. Part 1: Executive summary
[ESA-CR(P)-1894-PT-1] 23 p3697 N84-33428
Analysis and selection of a remote docking simulation visual display system
[NASA-CR-171148] 23 p3698 N84-33432
Development of robotics facility docking test hardware
[NASA-CR-171153] 23 p3698 N84-33433
Continuous wave (CW) diode laser instrumentation for rendezvous and docking maneuvers in geosynchronous orbits 24 p3908 N84-34752
Rendezvous and docking mission and navigation sensors 24 p3908 N84-34753

SPACECRAFT DOCKING MODULES
Krasnaya Zvezda on advantages of Cosmos-1443 modular spacecraft 05 p0633 N84-14161
Shuttle interaction study
[NASA-CR-173400] 12 p1777 N84-21592

SPACECRAFT ELECTRONIC EQUIPMENT
Cosmonauts use new instruments for Earth study 05 p0633 N84-14162
Elektrotopograf experiment on Salyut-7 05 p0633 N84-14163
Electrical self-aligning connector — orbital servicer vehicles
[NASA-CASE-MFS-25211-2] 05 p0673 N84-14423
30/20 GHz spacecraft GaAs FET solid state transmitter for trunking and customer-premise-service application
[NASA-CR-168276] 07 p0997 N84-16463
An assessment of the benefits of using infrared thermography to measure the temperature of discrete electronic components operating in a vacuum
[AD-A134350] 07 p0997 N84-16465
Preparation of standard electrical testability provisions for space equipment. Volume 1: Executive summary
[DM.51/CV/JP/327.83-VOL-1] 08 p1153 N84-17507
Preparation of standard electrical provisions for space equipments
[DM.51/CV/JP/327.83-VOL-2] 08 p1153 N84-17508
Multi-element X-ray shields for spacecraft
[AD-A137105] 10 p1449 N84-19466
NASA flight electronics environmental stress screening survey
[NASA-CR-173472] 12 p1841 N84-22002
Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-1] 13 p1939 N84-22612
Study of future recorders for ESA
[ESA-CR(P)-1864] 16 p2496 N84-26018
Transponder optimization by computer simulation
[MBB-UR-617-83-O] 16 p2563 N84-26445
Development of standardized specifications for screening space level integrated circuits and semiconductors
[NASA-CR-171100] 19 p3012 N84-29093
MMIC technology for advanced space communications systems
[NASA-TM-83749] 20 p3173 N84-30147
Length distribution of chords through a rectangular volume
[AD-A143302] 22 p3577 N84-32654

SPACECRAFT ENVIRONMENTS
Large space instrumentation to measure the interaction between space structures and the environment
[AD-A129990] 01 p0028 N84-10179
Shuttle measured contaminant environment and modeling for payloads. Preliminary assessment of the space telescope environment in the shuttle bay
[NASA-TM-85111] 03 p0341 N84-12216
Manned flight chronology 05 p0633 N84-14160
The space shuttle environment as evidence of critical ionization phenomena 05 p0639 N84-14204
Identification of a volatile phytotoxin from algae 09 p1358 N84-18876
Microgravity as an additional tool for research in human physiology with emphasis on sensorimotor systems
[ESA-BR-15] 09 p1362 N84-18900
Acoustic environments for JPL shuttle payloads based on early flight data 10 p1512 N84-19698
Interplanetary dust experiment (A0201) 15 p2277 N84-24671
Space debris impact experiment (S0001) 15 p2277 N84-24672
Seeds in space experiment (P0004-1) 15 p2277 N84-24675
Space-exposed experiment developed for students 15 p2277 N84-24676
Living and working in space. A history of Skylab
[NASA-SP-4208] 16 p2454 N84-25737
Contamination and cleanliness control
[ESA-PSS-01-201-ISSUE-1] 16 p2475 N84-25867
The thermal design of the European complement of first Spacelab mission (FSLP)
[MBB-UR-645-83-O] 16 p2563 N84-26442
Natural environment design criteria for the space station program definition phase
[NASA-TM-82565] 17 p2615 N84-26740
Space Station needs, attributes and architectural options study. Volume 7-4A: Data book, architecture, technology and programmatics, part A
[NASA-CR-173686] 18 p2804 N84-27799
Habitability and human productivity issues confronting the Air Force Space Command
[AD-P003266] 18 p2906 N84-28431
Development of equipment for 'Cosmos-1514' biosatellite 19 p2976 N84-28866
Effect of living conditions in confined space on formation of bacterial aerosol 20 p3255 N84-30659
Space stations: Living in zero gravity, developmental task for psychologists and space environmental experts
[NASA-TM-77820] 23 p3700 N84-33454
Heat rejection system technology demonstration model — spacecraft thermal control
[TD-RP-AI-004] 23 p3701 N84-33459
Induced environment contamination monitor: Preliminary results from the Spacelab 1 flight
[NASA-TM-86461] 23 p3701 N84-33461

SPACECRAFT EQUIPMENT
NT SPACECRAFT ELECTRONIC EQUIPMENT
Influence of natural exposure in space on physical-mechanical properties of carbon reinforced plastic 24 p3872 N84-34536

SPACECRAFT GUIDANCE
NT SATELLITE GUIDANCE
Shuttle ascent GN&C postflight results 01 p0022 N84-10140
Centaur D-1A guidance/software system
[NASA-TM-83552] 07 p0962 N84-16234
Study of Attitude Control and Guidance System (ACGS) for orbit change stage
[ESA-CR(P)-1797] 08 p1120 N84-17285
Guidance and Control Techniques for Advanced Space Vehicles
[AGARD-CP-350] 15 p2265 N84-24603
Outlook of lasers in space operations and navigation 24 p3904 N84-34722
Performance capabilities of laser ranging sensors — space applications 24 p3904 N84-34726

SPACECRAFT INSTRUMENTS
NT LASER ALTIMETERS
NT MULTISPECTRAL LINEAR ARRAYS
NT SATELLITE INSTRUMENTS
Large space instrumentation to measure the interaction between space structures and the environment
[AD-A129990] 01 p0028 N84-10179
Concerning the possibility of employing superconducting systems for analyzing the composition of cosmic rays
[AD-A133792] 05 p0765 N84-15021
Signal encoding and telemetry systems for space vehicles
[AD-A134445] 07 p0963 N84-16244
Spaceborne Gravity Gradiometers. Part 3: Instrument status and prospects 09 p1335 N84-18719
An angular velocimeter for aerospace applications
[AD-P002682] 11 p1658 N84-20619
A new satellite instrument for yaw and pitch measurements
[AD-A138729] 13 p1937 N84-22599
A probe for measuring spacecraft surface potentials using a direct-gate field effect transistor
[AD-A140024] 15 p2283 N84-24706
Preservation, storage, handling and transportation of ESA spacecraft hardware
[ESA-PSS-01-202-ISSUE-1] 16 p2475 N84-25868
Material and process selection and quality control for ESA spacecraft and associated equipment
[ESA-PSS-01-70-ISSUE-2] 16 p2500 N84-26040
Quality assurance of test houses for ESA spacecraft and associated equipment
[ESA-PSS-01-203-ISSUE-1] 16 p2500 N84-26042
An oscillating capacity electrometer for space applications
[IFSI-84-6] 18 p2807 N84-27823
Investigation of fast initialization of spacecraft bubble memory systems
[NASA-TM-85832] 18 p2832 N84-27977
Development of equipment for 'Cosmos-1514' biosatellite 19 p2976 N84-28866
Drift scintillation meter
[AD-A142523] 20 p3302 N84-30968
Study in spurious sensitivity of electronics
[AD-A143947] 23 p3742 N84-33719
Viking lander: Creating the science teams 24 p3991 N84-35255

SPACECRAFT LANDING
NT MARS LANDING
Space shuttle descent flight control design requirements and experiments Learned, Pt. 1 p 617-628 01 p0022 N84-10142
AFFTC overview of orbiter-reentry flight-test results 01 p0027 N84-10169
Flying the orbiter in the approach/landing phase 01 p0027 N84-10170
Manned flight chronology 05 p0633 N84-14160
Landing of Soyuz T-9 cosmonauts 12 p1774 N84-21573
Night landing of 'Soyuz-23' cosmonauts in Lake Tengiz recounted 19 p2972 N84-28837

SPACECRAFT LAUNCHING
Study of auxiliary propulsion requirements for large space systems. Volume 1: Executive summary
[NASA-CR-168193-VOL-1] 03 p0343 N84-12226
Shot to the moon from a cannon
[AD-A132554] 04 p0490 N84-13216
Atmospheric environment for space shuttle (STS-8) launch
[NASA-TM-82560] 05 p0708 N84-14636
Interplanetary mission design handbook. Volume 1, part 2: Earth to Mars ballistic mission opportunities, 1990-2005
[NASA-CR-173306] 09 p1260 N84-18226
Environmental monitoring instrumentation and monitoring techniques for space shuttle launches
[AD-A136594] 09 p1342 N84-18766
An iterative guidance method for the large rocket launch vehicle
[AD-A137586] 11 p1624 N84-20629
Benefits from satellite programs cited 12 p1776 N84-21584
List of recent Soviet space launches 12 p1776 N84-21585
Chronology of KSC and KSC related events, 1982
[NASA-TM-85576] 12 p1917 N84-22491
Performance assessment of planetary missions as launched from an orbiting space station
[NASA-CR-173498] 13 p1936 N84-22594
A development of logistics management models for the Space Transportation System
[NASA-CR-173504] 14 p2113 N84-23664

A commonality approach to DoD command and control centers
[AD-P002153] 14 p2138 N84-23818
Atmospheric environment for Space Shuttle (STS-9) launch
[NASA-TM-82572] 14 p2179 N84-24047
Atmospheric environment for Space Shuttle (STS-11) launch
[NASA-TM-82580] 15 p2366 N84-25194
Summary of 25 years of spacecraft launching
[AERONOMICA-ACTA-A-34-1983] 16 p2455 N84-25744
Ariane V8 - Intelsat V F8 16 p2458 N84-25748
La Recherche Aerospatiale, Bimonthly Bulletin, no. 1983-6, 217/November-December
[ESA-TT-841] 16 p2476 N84-25870
Analysis of the sound field radiated by the Ariane launch vehicle during lift-off 16 p2476 N84-25872
List of recent Soviet space launches 19 p2978 N84-28880
Atmospheric environment for space shuttle (STS-13) launch
[NASA-TM-82588] 19 p3057 N84-29396
Propulsion options for orbit-on-demand 20 p3136 N84-29915
List of recent Soviet space launches 21 p3348 N84-31239
A description of the ground segment of CNES, ESA, and TELESAT
[INPE-2984-NTE/211] 22 p3539 N84-32407
Commercial Space Launch Act
[H-REPT-98-816] 23 p3835 N84-34329

SPACECRAFT LUBRICATION
Activities report of the European Space Tribology Laboratory (ESTL)
[ESA-ESTL-55] 06 p0853 N84-15563
Some observations on the performance of Fomblin Z25 oil and Braycote 3L-38RP grease in ball bearings and gear boxes 09 p1296 N84-18467
Moisture resistant MoS2-based composite lubricant films 09 p1296 N84-18468
Lubrication of mountings subject to contact corrosion — spacecraft components 09 p1296 N84-18469
The tribology of gears for satellite applications 09 p1296 N84-18470
European Space Tribology Laboratory: Facilities, services, capabilities
[ESA-BR-12] 20 p3199 N84-30317
Torque properties of oscillating, dry-lubricated ball bearings in vacuum — spacecraft lubrication
[ESA-ESTL-57] 23 p3758 N84-33820

SPACECRAFT MAINTENANCE
Repairing Solar Max: The Solar Maximum Repair Mission
[NASA-EP-205] 19 p2979 N84-28883
Spacecraft servicing demonstration plan
[NASA-CR-171132] 21 p3351 N84-31258

SPACECRAFT MANEUVERS
NT MANEUVERABLE REENTRY BODIES
NT ORBITAL MANEUVERS
Solution of the 2-point boundary value problems of optimal spacecraft rotational maneuvers 04 p0586 N84-13870
Optimum aerodynamic maneuvers of orbiting vehicles 05 p0629 N84-14133
Optimal maneuvers of orbital transfer vehicles 13 p1939 N84-22606
Inertial-optical attitude determination and model following control of maneuvering spacecraft 15 p2267 N84-24613
An approach to attitude control maneuvers which helps maintain orbit inclination 15 p2268 N84-24618
Characterization of uncertainty for large space structure control problems 15 p2268 N84-24619
Inertial-optical attitude determination and model following control of maneuvering spacecraft
[NLR-MP-83065-U] 17 p2616 N84-26742
Comments on goals of 'Soyuz T-10' flight 19 p2970 N84-28825

SPACECRAFT MODELS
Development of a spacecraft infrared test technique as an alternative to solar simulation: First steps on L-SAT thermal model 10 p1439 N84-19396
Spacecraft thermal balance testing using infrared lamps on a dummy spacecraft 10 p1439 N84-19399
Thermal network correction by simplex optimization — spacecraft thermal balance testing 10 p1442 N84-19422
Integration of mathematical models: Experience of first Spacelab mission 10 p1444 N84-19431
Development of procedures for component mode synthesis
[DFVLR-IB-232-82-C-09] 12 p1782 N84-21626
The introduction of clampbands in spacecraft structural mathematical models
[EMSB-12/83] 12 p1782 N84-21627

SPACECRAFT MODULES
Operational modules for space station construction
[NASA-TM-85772] 12 p1779 N84-21608
The liquid bipropellant stage concept: Filling the OTV gap 20 p3140 N84-29936

SPACECRAFT MOTION
Solution of the 2-point boundary value problems of optimal spacecraft rotational maneuvers 04 p0586 N84-13870
Optimum aerodynamic maneuvers of orbiting vehicles 05 p0629 N84-14133
Formulation of theory of artificial earth satellite motion by Hori-Deprit method 19 p2974 N84-28852
Non-integrability of planar oscillation equation for satellite in elliptical orbit 21 p3489 N84-32109
Relative motion characteristics of 2 near-Earth Satellites
[NASA-CR-173687] 22 p3678 N84-33316

SPACECRAFT ORBITAL ASSEMBLY
U ORBITAL ASSEMBLY

SPACECRAFT ORBITS
NT GEOSYNCHRONOUS ORBITS
NT INTERPLANETARY TRANSFER ORBITS
NT POLAR ORBITS
NT SATELLITE ORBITS
NT STATIONARY ORBITS
NT TRANSFER ORBITS
Dynamic analysis of spacecraft trajectory and attitude in an orbital insertion
[INPE-2845-TDL/142] 02 p0185 N84-11203
Shuttle on-orbit dynamics 08 p1110 N84-17216
List of recent Soviet space launches 12 p1776 N84-21585
Flights to asteroids with space vehicle maneuvers near Venus, Earth, Mars and Jupiter 19 p2973 N84-28844
An integrated space station propulsion system 20 p3139 N84-29933
Thrust level requirements for space station on-orbit propulsion 20 p3140 N84-29935
In flight performance of a six ampere-hour nickel-cadmium battery in low Earth orbit 23 p3738 N84-33690
RCA SATCOM battery in orbit performance update and accelerated life test results 23 p3738 N84-33691

SPACECRAFT PERFORMANCE
Flying the orbiter in the approach/landing phase 01 p0027 N84-10170
The OTS: Fifth year in orbit 03 p0342 N84-12221
Investigation of pulsed performance of an electrothermal hydrazine thruster, using a special see-through thruster
[AD-A137408] 10 p1451 N84-19473
LANDSAT-D communication systems in-orbit performance 10 p1523 N84-19972
LANDSAT-4 status 10 p1523 N84-19973

SPACECRAFT POWER SUPPLIES
High-current, high-frequency capacitors 01 p0011 N84-10067
Space reactor preliminary mechanical design
[DE83-012689] 01 p0145 N84-10953
Areas of the rational use of different spacecraft power systems
[AD-A129340] 02 p0186 N84-11207
Space Nuclear-Safety Program
[DE83-016351] 02 p0186 N84-11211
GSFC flywheel status 03 p0344 N84-12230
Electrical power trade-offs 03 p0344 N84-12232
Space station energy sizing 03 p0344 N84-12233
Study of multi-kilowatt solar arrays for Earth orbit applications
[NASA-CR-170939] 03 p0403 N84-12634
Orbiting wire as a dynamo: Auxiliary power possibilities for space platforms
[IFSI-83-3] 03 p0405 N84-12653
Pyroelectric conversion in space: A conceptual design study
[NASA-CR-168272] 05 p0699 N84-14585
Long life communication satellites: Electric power supply during the eclipse period
[NASA-TM-77351] 07 p0965 N84-16253
Space nuclear safety program, June 1983
[DE84-003555] 07 p1074 N84-16980
Integrated Power/Attitude Control System (IPACS) technology experiment 08 p1111 N84-17229
Power subsystem automation study
[NASA-CR-170974] 08 p1180 N84-17688
Power 09 p1269 N84-18288
Evaluation program for secondary spacecraft cells. Initial evaluation tests of General Electric Company 4.0 ampere-hour nickel-cadmium spacecraft cells for the AMPTE satellite program
[NASA-CR-173357] 09 p1341 N84-18758
Qualification evaluation tests of 20.0 ampere-hour sealed nickel-cadmium cells
[NASA-CR-173358] 09 p1341 N84-18759
Thermal control design of ISPM 10 p1441 N84-19406
Thermal control of multimission battery compartment of SPOT 10 p1445 N84-19440
Nickel cadmium cell SD 15 K, qualification and operation of a modularized battery 50 Ah, 100 v
[BMFT-FB-W-83-030] 10 p1488 N84-19728
Space nuclear safety program
[DE84-003558] 12 p1904 N84-22398
Space nuclear safety program
[DE84-006693] 12 p1904 N84-22399
Overview of NASA Lewis Research Center free-piston Stirling engine activities
[NASA-TM-83649] 12 p1921 N84-22512
A review of in situ propellant production techniques for solar system exploration
[NASA-CR-173494] 13 p1936 N84-22586
Advances in solid state switchgear technology for large space power systems
[NASA-TM-83652] 13 p1986 N84-22891
Study of solar array switching power management technology for space power system
[NASA-CR-167890-EXEC-SUM] 13 p2008 N84-23021
Study of flywheel energy storage for space stations
[NASA-CR-171780] 13 p2009 N84-23028
Space Nuclear Safety Program, September 1983
[DE84-007989] 14 p2224 N84-24344
Basic and applied research related to the technology of space energy conversion systems, 1982 - 1983
[NASA-CR-173554] 15 p2361 N84-25168
Power plants in space
[AD-A142099] 19 p2983 N84-28902
Study of concentration for space photovoltaic generator: Executive summary
[SNIAS-2726-CA/EM/G] 19 p2983 N84-28903
Study report on a modular photovoltaic power supply system for space application
[BMFT-FB-W-84-010] 19 p2983 N84-28904
Rotatable electric cable connecting system
[NASA-CASE-GSC-12899-1] 19 p3011 N84-29085
Space Photovoltaic Research and Technology 1983. High Efficiency, Radiation Damage, and Blanket Technology
[NASA-CP-2314] 19 p3043 N84-29307
Space Shuttle Orbiter improved auxiliary power unit 20 p3144 N84-29965
Multi-100kW: Planar low cost solar array development
[NASA-CR-171119] 20 p3234 N84-30529
Batteries and accumulators for future Aerospatiale projects
[SNIAS-841-422-111] 21 p3355 N84-31282
Bi-directional control system for energy flow in a solar powered flywheel
[NASA-CASE-MFS-25978-1] 22 p3616 N84-32913
Space reactors: What is a kilogram?
[DE84-012856] 22 p3655 N84-33189
A simulation of a satellite power supply system
[INPE-3140-TDL/166] 23 p3699 N84-33446
The 1983 Goddard Space Flight Center Battery Workshop
[NASA-CP-2331] 23 p3735 N84-33668
Inertial energy storage for spacecraft 23 p3735 N84-33669
Regenerative hydrogen-oxygen fuel cell-electrolyzer systems for orbital energy storage 23 p3735 N84-33670
Ni-Cd battery life expectancy in geosynchronous orbit 23 p3738 N84-33687
Nickel cadmium charge control concepts — ampte cram 23 p3738 N84-33688
Deep reconditioning testing for near Earth orbits 23 p3738 N84-33689
In flight performance of a six ampere-hour nickel-cadmium battery in low Earth orbit 23 p3738 N84-33690
Performance of the IUE spacecraft batteries after 70 months 23 p3738 N84-33692
Management and performance of APPLE battery in high temperature environment 23 p3738 N84-33693
Bipolar nickel-hydrogen batteries for aerospace applications 23 p3739 N84-33701
Test results of a ten cell bipolar nickel-hydrogen battery 23 p3739 N84-33702
Failure analysis of nickel-hydrogen cell subjected to simulated low Earth orbit cycling 23 p3740 N84-33703
Comparative performance assessment of INTELSAT 5 nickel hydrogen and nickel cadmium batteries 23 p3740 N84-33704
San Marco D/L solar array system design and performance
[NASA-TM-86125] 24 p3916 N84-34795

SPACECRAFT PRELAUNCH TESTS
U SPACE VEHICLE CHECKOUT PROGRAM

SPACECRAFT PROPULSION
NT ELECTROMAGNETIC PROPULSION
NT ION PROPULSION
NT PLASMA PROPULSION
NT SOLAR ELECTRIC PROPULSION
NT SOLAR PROPULSION
NT SOLAR THERMAL PROPULSION
Resistojet propulsion for large spacecraft systems
[NASA-TM-83489] 02 p0186 N84-11206
Space Shuttle propulsion parameter estimation using optimal estimation techniques, volume 1
[NASA-CR-170935] 03 p0341 N84-12213
Study of auxiliary propulsion requirements for large space systems. Volume 1: Executive summary
[NASA-CR-168193-VOL-1] 03 p0343 N84-12226
Auxiliary propulsion 06 p1268 N84-18283
AFRPL (Air Force Rocket Propulsion Laboratory) technical objective document FY 1985
[AD-A137856] 11 p1626 N84-20641
Field emission electric propulsion. Further testing of mercury as propellant
[IRA-83-P-6] 12 p1782 N84-21629
Reliability analysis using network simulation
[DE84-006990] 12 p1904 N84-22397
A review of in situ propellant production techniques for solar system exploration
[NASA-CR-173494] 13 p1936 N84-22595
Future space transport
[NASA-TM-77554] 14 p2114 N84-23668
Ground correlation investigation of thruster spacecraft interactions to be measured on the IAPS flight test
[NASA-TM-83596] 14 p2118 N84-23691
Propulsion issues for advanced orbit transfer vehicles
[NASA-TM-83624] 16 p2459 N84-25762
Propulsion options for orbit-on-demand 20 p3136 N84-29915
MPD thruster comparisons with advanced chemical systems for auxiliary propulsion applications 20 p3139 N84-29928
Factors that influence space station propulsion requirements 20 p3139 N84-29931
Cost evaluation of space station propulsion system options 20 p3139 N84-29932
An integrated space station propulsion system 20 p3139 N84-29933
Oxygen/hydrogen thrusters for the space station auxiliary propulsion system 20 p3140 N84-29934
Thrust level requirements for space station on-orbit propulsion 20 p3140 N84-29935
Propulsion issues for advanced orbit transfer vehicles 20 p3140 N84-29937
An MPD thruster with liquid metal injection
[ISAS-610] 20 p3165 N84-30103
Radiative resistojet performance characterization tests
[NASA-CR-174763] 23 p3701 N84-33462

SPACECRAFT RADIATORS
Thermal control system — removing waste heat from industrial process spacecraft
[NASA-CASE-GSC-12771-1] 05 p0676 N84-14461
Thermal energy management process experiment 08 p1110 N84-17222
Development of a contact heat exchanger for a constructable radiator system
[NASA-CR-171730] 08 p1155 N84-17523
Heat pipes for the L-SAT communications module radiators 10 p1440 N84-19405
A Variable Conductance Heat Pipe (VCHP) radiator system for communications payloads 10 p1440 N84-19406
Adaptive control of thermal fluid loops for space applications 10 p1444 N84-19433
The Giotto thermal control shutter 10 p1444 N84-19435
Flexible radiator system
[NASA-CR-171765] 11 p1623 N84-20623
Radiative cooler — spacecraft radiators
[NASA-CASE-NPO-15465-1] 13 p1968 N84-22903
A review of the in-orbit thermal performance of Maritime Communications Satellite (MCS)-A
[MBB-UR-641-83-O] 16 p2563 N84-26443
Multi-leg heat pipe evaporator
[NASA-CASE-MSC-20812-1] 22 p3592 N84-32748
The development of a high-capacity instrument module heat transport system, appendixes
[NASA-CR-175260] 22 p3592 N84-32750
Heat rejection system technology demonstration model — spacecraft thermal control
[TD-RP-AI-004] 23 p3701 N84-33459

SPACECRAFT RECOVERY
A new operation method for a large-scale shock tunnel
[NAL-TR-765] 04 p0487 N84-13200
Electromagnetic design of a remote manipulator arm for space applications 09 p1295 N84-18462
Optimization of the capture process for a rigid satellite stabilized by gravity gradient
[INPE-3184-PRE/549] 21 p3349 N84-31245

SPACECRAFT RELIABILITY
The role of onboard intelligence and of orbital servicing in the increase of satellite lifetime 15 p2266 N84-24605

SPACECRAFT RENDEZVOUS
U SPACE RENDEZVOUS

SPACECRAFT SENSORS
U SPACECRAFT INSTRUMENTS

SPACECRAFT SHIELDING
Mechanical fastener
[NASA-CASE-LAR-12736-2] 06 p0795 N84-15180
Development of an improved protective cover/light block for multilayer insulation
[NASA-TM-82563] 06 p0809 N84-15269
Motorized thermal control shade — for spacecraft 10 p1444 N84-19436
Degradation of thermal shield materials in the space radiation environment 10 p1446 N84-19448
A Maltese cross shaped mobile thermal control shutter — for satellites 10 p1447 N84-19454
Starprobe thermal shield evolution 10 p1448 N84-19462
Post-test data report for the space shuttle full-scale AFRSI sequence of environments test (OS-305-1 to -5) in the NASA/Ames Research Center 11x11-foot wind tunnel
[NASA-CR-167684] 13 p1938 N84-22603
Solar absorptance and thermal emittance of some common spacecraft thermal-control coatings
[NASA-RP-1121] 14 p2119 N84-23696
Linear energy transfer spectrum measurement experiment (P0006) 15 p2276 N84-24665
TOPEX orbital radiation study
[NASA-TM-85447] 16 p2582 N84-26562
Shell tile thermal protection system
[NASA-CASE-LAR-12862-1] 18 p2817 N84-27686
Results of the AFRSI detailed-environment test of the 0.035-scale SSV pressure-loads model 84-0 in the Ames 11x11 ft. TWT and the Lewis 8x6 ft. and 10x10 ft. SWT (OA-310A, B, C), volume 2
[NASA-CR-167686] 21 p3351 N84-31260
Results of the AFRSI detailed-environment test of the 0.035-scale SSV pressure-loads model 84-0 in the Ames 11x11 ft. TWT and the Lewis 8x6 ft. and 10x10 ft. SWT (OA-310A, B, C), volume 1
[NASA-CR-167685] 21 p3352 N84-31261
Residual mechanical properties of Ti-6Al-4V after simulated Space Shuttle reentry
[NASA-TM-86294] 22 p3554 N84-32506
Effect of alloy chemistry and exposure conditions on the oxidation of titanium
[NASA-TM-86295] 22 p3555 N84-32507
Galactic heavy-ion shielding using electrostatic fields
[NASA-TM-86265] 23 p3700 N84-33453
Study of outgassing and decomposition of Space Shuttle heat protection tiles, fillers and adhesive
[NASA-CR-173974] 24 p3860 N84-34465

SPACECRAFT STABILITY
Predicted and flight test results of the performance, stability and control of the space shuttle from reentry to landing 01 p0022 N84-10136
Lateral-directional stability investigation of the space shuttle orbiter at Mach 6 01 p0022 N84-10137
Nutation damper for the AMPTE-IRM satellite: Final Report
[NASA-TM-77330] 05 p0643 N84-14228
Digital control system for space structural dampers
[NASA-CR-175355] 07 p0964 N84-16246
ACOSS eleven (Active Control Of Space Structures), volume 2
[AD-A140026] 15 p2282 N84-24704
Penn State Get Away Special 18 p2799 N84-27759
Graduate engineering research participation in aeronautics
[NASA-CR-173849] 21 p3507 N84-32220

SPACECRAFT STERILIZATION
Viking lander: Building a complex spacecraft 24 p3991 N84-35256

SPACECRAFT STRUCTURES
Spacecraft Vibration Testing Using Multi-Axis Hydraulic Vibration Systems — conferences
[ESA-SP-197] 03 p0339 N84-12197
Simulation of electro-servo-hydraulic actuator for high quality testing — of spacecraft 03 p0340 N84-12206
Microwave monolithic integrated circuit development for future spaceborne phased array antennas
[NASA-TM-83518] 04 p0517 N84-13399
ACOSS Fourteen (Active Control of Space Structures)
[AD-A133411] 06 p0795 N84-15181
Integrity control of carbon fiber reinforced plastics structural elements, phase 1 report — space applications
[TB-TS-11-01/82-A] 09 p1289 N84-18416
Development of a spacecraft infrared test technique as an alternative to solar simulation: First steps on L-SAT thermal model 10 p1439 N84-19396
IRSIM: A program for the calculation of infrared flux intensity incident on a spacecraft inside a test chamber 10 p1440 N84-19400
The Shock and Vibration Bulletin. Part 3: Vehicle dynamics and vibration: Test and criteria
[AD-A134454] 10 p1511 N84-19693
Computer aided synthesis of a satellite antenna structure with probabilistic constraints 10 p1512 N84-19699
Dynamic behaviour of a satellite antenna structure in random vibration environment 10 p1512 N84-19900
Evaluation of modal testing techniques for spacecraft structures 10 p1513 N84-19906
Study on synthesis and characterization of large space systems, phase 2. Part 2: Proposals for additions, modifications and new analytical methods, volume 1
[ESA-CR(P)-1779-VOL-3] 12 p1780 N84-21611
Mathematical synthesization of complex structures 12 p1876 N84-22224
ACOSS eleven (Active Control Of Space Structures), volume 2
[AD-A140026] 15 p2282 N84-24704
The application of the thermal-control paint PYROLAC PSG 120FD
[ESA-PSS-01-733-ISSUE-1] 16 p2473 N84-25850
An investigation into the probabilistic combination of quasi-static and random accelerations
[NASA-TM-82584] 18 p2852 N84-28111
Dynamic synthesis and evaluation of spacecraft structures
[ESA-STR-208] 20 p3135 N84-29904
Spacecraft servicing demonstration plan
[NASA-CR-171132] 21 p3351 N84-31258
Graduate engineering research participation in aeronautics
[NASA-CR-173849] 21 p3507 N84-32220
Curved cap corrugated sheet
[NASA-CASE-LAR-12684-1] 23 p3700 N84-33450

SPACECRAFT TELEVISION
NT DIGITAL SPACECRAFT TELEVISION
NT SATELLITE TELEVISION

SPACECRAFT TRACKING
NT SATELLITE TRACKING
NT SATELLITE-TO-SATELLITE TRACKING
Correlation between two spacecraft in the Doppler detection of a gravitational background radiation
[IFSI-83-7] 03 p0363 N84-12362
Polarized-interferometer feasibility study
[NASA-CR-170979] 11 p1656 N84-20605
Image dissector camera system study
[NASA-CR-171759] 11 p1656 N84-20606
Satellite Emission Range Inferred Earth Survey (SERIES) project
[NASA-CR-173728] 18 p2791 N84-27714
Space Station needs, attributes and architectural options study. Volume 7-4A: Data book, architecture, technology and programmatics, part A
[NASA-CR-173686] 18 p2804 N84-27799
History of on-orbit satellite fragmentations
[NASA-CR-171814] 24 p3859 N84-34461

SPACECRAFT TRAJECTORIES
NT EARTH-MARS TRAJECTORIES
NT INTERPLANETARY TRAJECTORIES
STS-8 bet results
[NASA-CR-172257] 02 p0184 N84-11197
Dynamic analysis of spacecraft trajectory and attitude in an orbital insertion
[INPE-2845-TDL/142] 02 p0185 N84-11203
Discontinuous low thrust orbit transfer
[AD-A136908] 10 p1451 N84-19474
STS-9 BET products
[NASA-CR-172314] 11 p1622 N84-20616
TOPEX orbital radiation study
[NASA-TM-85447] 16 p2582 N84-26562

SPACECREWS
Spacelab data book
[ESA-BR-14] 09 p1273 N84-18315
Medical research program of 'Soyuz T-10' crew 19 p2971 N84-28826
Changes in 'Soyuz T-10' crew work schedule 19 p2971 N84-28829
Payload crew training complex simulation engineer's handbook
[NASA-TM-86485] 23 p3814 N84-34186

SPACELAB
Payload missions integration
[NASA-CR-170902] 01 p0027 N84-10171
Spacelab: An international short-stay orbiting laboratory
[NASA-EP-165] 01 p0027 N84-10172

STS-9 Spacelab 1 press kit
[PB3-10209] 03 p0341 N84-12214
West Europe report: Science and technology, no. 169
[JPRS-84936] 05 p0634 N84-14169
High cost, lack of interest, money for Spacelab launches 05 p0634 N84-14170
Danish crystal-growth experiment aboard Spacelab 05 p0634 N84-14171
Software quality assurance Spacelab experience and future trends 05 p0725 N84-14759
Modern software development tools in space projects on the example of a Spacelab experiment 05 p0725 N84-14761
Payload missions integration
[NASA-CR-170949] 06 p0794 N84-15171
The European Space Agency's Earth observation satellite programmes 06 p0867 N84-15647
Space telescope
[NASA-CR-170948] 06 p0938 N84-16097
STS-9: Orbital workshop spacelab to fly on ninth Shuttle mission
[NASA-TM-85497] 07 p0963 N84-16242
SEPAC: Spacelab Mission 1 report
[NASA-CR-170980] 08 p1107 N84-17196
STEP mechanical systems 08 p1109 N84-17213
Payload missions integration
[NASA-CR-170977] 09 p1260 N84-18225
Spacelab data book
[ESA-BR-14] 09 p1273 N84-18315
Spacelab Data Processing Facility
[NASA-TM-85556] 10 p1435 N84-19382
The Spacelab Atmosphere Storage and Control Section (ASCS) and its orbiter common hardware flight performance 10 p1443 N84-19427
Spacelab/Orbiter atmosphere revitalization subsystem commonality and flight experience 10 p1443 N84-19428
Integration of mathematical models: Experience of first Spacelab mission 10 p1444 N84-19431
Research in space physics at the University of Iowa, 1982
[NASA-CR-175411] 11 p1754 N84-21447
Operational modules for space station construction
[NASA-TM-85772] 12 p1779 N84-21608
The thermal design of the European complement of first Spacelab mission (FSLP)
[MBB-UR-645-83-O] 16 p2563 N84-26442
National Aeronautics and Space Administration 16 p2568 N84-26477
Space research in Belgium, 1982-1983 20 p3321 N84-31084
NASA Ames summary high school apprenticeship research program, 1983 research papers
[NASA-TM-85931] 22 p3684 N84-33365
The Spacelab flight unit offgassing test
[ESA-STM-232] 23 p3701 N84-33460
Induced environment contamination monitor: Preliminary results from the Spacelab 1 flight
[NASA-TM-86461] 23 p3701 N84-33461
The corrosion properties of Spacelab structural alloy aluminum 2219-T851
[ESA-STR-212] 23 p3720 N84-33585

SPACELAB PAYLOADS
NT ATMOSPHERIC GENERAL CIRCULATION EXPERIMENT
NT GEOPHYSICAL FLUID FLOW CELLS
NT POINTING CONTROL SYSTEMS
Studies of convection in a solidifying binary mixture at reduced gravity
[NASA-CR-170916] 02 p0190 N84-11231
System definition Roentgensatellit, phase B 1.2
[BMFT-FB-W-83-010] 03 p0342 N84-12219
Layout of a SAR sensor for Spacelab and satellite. Part 1: Design considerations for fundamental SAR parameters
[ESA-TT-802] 03 p0343 N84-12224
The experiment Phenomena Induced by Charged Particle Beams (PICPAB) on board Spacelab 1 05 p0641 N84-14220
Space experiments with particle accelerators (SEPAC). Science problems of SEPAC/Spacelab 1 mission 05 p0641 N84-14221
Waves in Space Plasmas (WISP): A space plasma lab active experiment 05 p0642 N84-14223
Modular Optoelectronic Multispectral Scanner (MOMS). Digital image storage
[MBB-UA-686-82-OE] 05 p0746 N84-14901
An Attached Payload Operations Center (APOC) at the Goddard Space Flight Center (GSFC), volume 2
[NASA-CR-175160-VOL-2] 08 p1108 N84-17203
Remote sensing experiments on Spacelab and STS 08 p1175 N84-17655
Spacelab data book
[ESA-BR-14] 09 p1273 N84-18315
Spacelab scientific airlock 09 p1295 N84-18460
Microgravity as an additional tool for research in human physiology with emphasis on sensorimotor systems
[ESA-BR-15] 09 p1382 N84-18900
Public announcement of flight opportunity for materials science experiments on the Spacelab Mission D1: Extract
[NASA-TM-77277] 10 p1434 N84-19378
Microwave remote sensing experiment for first Spacelab mission
[BMFT-FB-W-83-022] 10 p1527 N84-20001
An Attached Payload Operations Center (APOC) at the Goddard Space Flight Center (GSFC), volume 1
[NASA-CR-175160] 11 p1620 N84-20605
Finite-difference fluid dynamics computer mathematical models for the design and interpretation of experiments for space flight — atmospheric general circulation experiment, convection in a float zone, and the Bridgman-Stockberger crystal growing system
[NASA-TP-2323] 14 p2144 N84-23852
Actuator development for the Instrument Pointing System (IPS) 15 p2347 N84-25080
Spacelab 4: Primate experiment support hardware 15 p2348 N84-25092
A sample performance of the grille spectrometer aboard Spacelab
[AERONOMICA-ACTA-A-281-1984] 16 p2494 N84-26003
Influences affecting separation in monotectic alloys under microgravity 17 p2612 N84-26723
The study of efficient low-power diffraction designs
[NASA-CR-171142] 21 p3405 N84-31598
Flight performance of the Spacelab metric camera experiment 23 p3764 N84-33858
Analysis of the metric camera black and white images over Italy 23 p3764 N84-33859
Some considerations of the operations of optical imaging space sensors derived from the experience of the metric camera project 23 p3764 N84-33860
Protein Single Crystal Growth Under Low Gravity --- conferences
[ESA-SP-1067] 23 p3804 N84-34118
Protein single crystal growth under microgravity 23 p3805 N84-34124
Diffusion profiles in microgravity protein crystallization experiments — Spacelab 23 p3805 N84-34125

SPACELAB UV-OPTICAL TELESCOPE FACILITY
U STARLAB

SPACERS
An explanation of spin-up instabilities for a 155mm binary projectile
[AD-A141534] 19 p3023 N84-29173

SPACING
Determining stresses in the presence of nonlinearities in interplanar spacing versus Sin squared Psi
[AD-A132365] 04 p0612 N84-14041
Ring spacing of Mercurian multi-ring basins and basin ring formation 13 p2078 N84-23464
Directivity and spacing for the antenna elements 17 p2693 N84-27154

SPAIN
Mapping land use in Catalonia (Spain) — using LANDSAT imagery 03 p0400 N84-12613
Preliminary report of HF (High-Frequency) radar measurements of surface currents East of the Strait of Gibraltar near Marbella, Spain: October 7-22, 1982, part 1
[PB84-154244] 14 p2183 N84-24083
Preliminary report of HF radar measurements of surface currents east of the Strait of Gibraltar near Marbella, Spain, 7-22 October 1982, part 2
[PB84-183664] 20 p3251 N84-30637
Methodology for interpretation of SST retrievals using the AVHRR split window algorithm
[NASA-TM-85100] 24 p3934 N84-34905

SPALLATION
Spallation and 14-MeV neutron irradiation of stabilized NbTi superconductors
[DE83-017973] 03 p0368 N84-12394
ASPUN, Argonne super intense pulsed pallation neutron source
[DE84-000311] 04 p0597 N84-13941
Program for development of strain tolerant thermal barrier coating system
[NASA-CR-173214] 07 p0978 N84-16337
An analytical evaluation of spall suppression of impulsively loaded aluminum panels based on a 1-dimensional stress wave propagation model
[AD-A143173] 21 p3422 N84-31708

SPALLING
Ball-on-block impact-spalling wear test and results on several iron alloys
[PB84-115633] 09 p1319 N84-18815
Microstructure of aluminum alloy in early stages of spalling 12 p1783 N84-21634
Diamondlike flakes
[NASA-CASE-LEW-13837-2] 13 p1953 N84-22696

SPANWISE BLOWING
NT BLOWING
Augmentation of fighter-aircraft performance by spanwise blowing over the wing leading edge 03 p0326 N84-12133
Investigation of trailing-edge-flap, spanwise-blowing concepts on an advanced fighter configuration
[NASA-TP-2250] 09 p1251 N84-18184
Experimental investigation of tangential blowing applied to a subsonic V/STOL inlet
[NASA-TP-2297] 11 p1602 N84-20493

SPAR (ROCKET)
U SPACE PROCESSING APPLICATIONS ROCKET

SPARE PARTS
Integrated logistic supportability (Aviation materiel)
[AD-A132367] 04 p0478 N84-13146
The aircraft availability model: Conceptual framework and mathematics
[AD-A132927] 05 p0626 N84-14115
On the use of replacements to extend system life
[AD-A132878] 05 p0690 N84-14632
An approach to logistic problems by the L-transform method 06 p0906 N84-15884
Automated storage and retrieval systems--a consolidation of guidance for project management and implementation
[AD-A135571] 09 p1404 N84-19175
Mobilization and defense management technical reports series. Management implications of industrial support capabilities for Space Shuttle operations
[AD-A137460] 10 p1438 N84-19390
Increasing spares competition in AFLC (Air Force Logistics Center)
[AD-P002775] 13 p2054 N84-23322
Reshaping the philosophy of spare parts acquisition: Project PACER PRICE
[AD-P002791] 13 p2056 N84-23338
Central Demand Data Base (CDDB) End Item Code (EIC)
[AD-P002807] 13 p2059 N84-23353
Improved management of support resources
[AD-P002808] 13 p2059 N84-23354
Mortality and spareparts: A conceptual analysis
[AD-P002826] 13 p2062 N84-23371
Increasing competition for spares within AFLC (Air Force Logistics Command)
[AD-A140751] 17 p2770 N84-27588
Justification of estimates for fiscal year 1985 submitted to Congress February 1984. Aircraft procurement, Air Force
[AD-A140837] 17 p2773 N84-27610
Aircraft Spare Stockage Methodology (aircraft spares) study
[AD-A142259] 19 p2955 N84-28730
AVCAL (Aviation Consolidated Allowance) restoration program and aircraft material condition
[AD-A144045] 23 p3687 N84-33366
A problem of determining the optimal policy for maintenance systems with reserve machines and a variable number of servers
[INPE-3197-TDL/173] 23 p3832 N84-34310

SPARK CHAMBERS
Problems and prospects in strange baryon spectroscopy
[DE83-018119] 04 p0496 N84-13253
Large area spark counter with fine time and position resolution
[DE84-006203] 19 p3028 N84-29202

SPARK GAPS
Review of repetitive-pulse-power component technology
[DE83-011784] 01 p0073 N84-10475
Coordinated research program in pulsed power physics
[AD-A129554] 01 p0138 N84-10905
Workshop on Repetitive Spark Gap Operation
[AD-A132688] 05 p0675 N84-14438
Plasma focus research in China 10 p1581 N84-20361
Coordinated research program in pulsed power physics
[AD-A139321] 14 p2142 N84-23843
High-voltage spark gap
[AD-A141072] 19 p3013 N84-29097
UV laser triggering of crowbars used in the Sandia lightning simulator
[DE84-009084] 20 p3180 N84-30199
Triggered spark gap discharger
[AD-D011174] 23 p3742 N84-33724

SPARK IGNITION
Evaluation of unthrottled combustion system options for light duty applications with future syncrude derived fuels
[DE83-017047] 03 p0358 N84-12327
Recent research on the efflux of the Rolls-Royce vaporiser fuel injector 15 p2290 N84-24743

Dissociation charts for use in spark ignition engine performance work (S.I. units)
[TT-8403] 18 p2850 N84-26095
Raman spectroscopy measurements of flame quenching in a duct-type crevice, appendix B
[DE84-009328] 21 p3362 N84-31329
Research and development of alcohol fuel usage in spark ignited engines
[DE84-011177] 21 p3374 N84-31412
Engine wear with methanol fuel in a nitrogen-free environment
[AD-A143530] 22 p3604 N84-32833
Experimental and modeling study of engine knock
[DE84-006134] 22 p3606 N84-32844

SPARK MACHINING
Multi-small hole drilling by EDM — electrodischarge machining (EDM)
[PNR-90184] 13 p1975 N84-22813

SPARK SHADOWGRAPH PHOTOGRAPHY
U SHADOWGRAPH PHOTOGRAPHY

SPARKS
Large area spark counters with fine time and position resolution
[DE84-007804] 15 p2337 N84-25031
The gas-heating phase in electrical breakdown
[AD-A141961] 20 p3302 N84-30967

SPARROW MISSILES
NT SPARROW 3 MISSILE

SPARROW 3 MISSILE
Aerodynamic characteristics of a Sparrow 3 missile model in the flow field of a generalized parent body at Mach 2.86
[NASA-TM-85713] 08 p1097 N84-17134

SPAS (ESA PLATFORMS)
U SHUTTLE PALLET SATELLITES

SPATIAL DISTRIBUTION
NT STAR DISTRIBUTION
An empirical Bayes approach to spatial analysis 03 p0393 N84-12563
Relating spatial patterns in image data to scene characteristics 03 p0394 N84-12573
Transverse horizontal coherence and low-frequency array gain limits in the deep ocean
[AD-A131916] 03 p0430 N84-12821
Faint galaxies in the Coma cluster: Luminosity function and spatial distribution 03 p0464 N84-13053
Spatial variation of iron abundance in the high speed solar wind, 1972 to 1976 03 p0473 N84-13113
Creating unstable velocity-space distributions with barium injections 05 p0640 N84-14214
A study of plasmaspheric density distributions for diffusive equilibrium conditions
[AD-A132643] 05 p0703 N84-14615
The 3-10 keV and 0.1- to 2-MeV observations of 4 gamma-ray bursts
[DE84-001334] 05 p0766 N84-15022
Combustion at the interface of an oxidizer-fuel slab system 06 p0800 N84-15215
Propagation of flexural and membrane waves with fluid loaded NASTRAN plate and shell elements 06 p0860 N84-15602
Part 1: Physical studies of distant comets. Part 2: Morphologies of planetary nebulae 06 p0937 N84-16091
Combination of earthquake direction effects
[DE84-001848] 07 p1034 N84-16709
The ISPM dust experiment 09 p1262 N84-18239
On the derivation of cloud structure parameters from aircraft measurements 10 p1536 N84-20062
Rocket observations of the diffuse ultraviolet background 10 p1598 N84-20470
Potential transport errors in single-layer wind fields
[DE84-003446] 11 p1675 N84-20932
Stratospheric tritium sampling
[DE84-006074] 12 p1848 N84-22045
Control of parameter-dependent systems, spatially-distributed systems, and systems with delays
[AD-A136036] 12 p1897 N84-22354
Ultraviolet OH emissions in H2-air diffusion flames 13 p1942 N84-22629
Temporal and spatial distribution of exhumed topography 13 p2087 N84-23517
The detection of nonplanar surfaces in visual space
[AD-A138761] 14 p2185 N84-24093
Ion-induced surface modification of alloys
[DE84-006864] 14 p2243 N84-24468
Remote sensing of floe size distribution and surface topography
[E84-10132] 15 p2357 N84-25141
Spatial distribution of craters on the Moon and Callisto 15 p2426 N84-25574
Unified analytical kinematic analysis and synthesis of spatial mechanisms 16 p2501 N84-26049
Evaluation of entropy and JM-distance criterions as features selection methods using spectral and spatial features derived from LANDSAT images
[E84-10141] 16 p2507 N84-26089
Research in extragalactic astrophysics
[NASA-CR-173606] 16 p2577 N84-26536
Distributions of aurora and ionospheric currents observed simultaneously on a global scale
[AD-A140615] 17 p2727 N84-27360
Dynamical studies of clusters of galaxies 17 p2775 N84-27619
Spatial fluctuations in the diffuse cosmic X-ray background, volumes 1 and 2 17 p2775 N84-27621
Strong earthquake spatial-temporal correlations 18 p2860 N84-28162
Interactions of motion perception with pattern perception
[AD-P003383] 18 p2913 N84-28476
Eye movements and spatial pattern vision
[AD-A140949] 18 p2914 N84-28481
A comparison of two photogrammetric algorithms for the measurement of model deformation in the National Transonic Facility
[NASA-TM-85830] 18 p2919 N84-28513
Investigating spatial distribution of phytoplankton in Lake Baykal by optical methods 19 p2976 N84-28868
Structural-geomorphological interpretation of lineaments detected from space photographs and patterns of mineral distribution 19 p2977 N84-28871
TM failed detectors data replacement 20 p3208 N84-30382
Assessment of Thematic Mapper band-to-band registration by the block correlation method 20 p3210 N84-30396
Biological oceanography 20 p3217 N84-30437
Spatial distribution of advective heat influxes in atmosphere over Northern Hemisphere and its relationship to heat influxes from ocean 20 p3223 N84-30482
Submillimeter wavelength survey of the galactic plane from l = -5 deg to l = +62 deg: Structure and energetics of the inner disk
[NASA-TM-86077] 20 p3319 N84-31069
A method to combine remotely sensed and in situ measurements: Program documentation
[E84-10172] 21 p3426 N84-31735
Measurement of LINAC bunch parameters using the Cerenkov effect
[AD-A143128] 21 p3493 N84-32136
Quality measures for estimating the proportions of different classes within a single image resolution element (Pixel)
[INPE-2791-PRE/354] 23 p3763 N84-33852
The spatial and temporal distribution of diffuse and direct solar radiation in the Federal Republic of Germany
[BMFT-FB-T-84-125] 23 p3802 N84-34110

SPATIAL FILTERING
Noise reduction and segmentation of IR images using CO-median filters
[RSRE-MEMO-3582] 03 p0366 N84-12378
Spatial filtering for enhancing point targets in images from a space-based mosaic IR detector
[AD-A132248] 04 p0521 N84-13425
Edge- and contour detection for correction of low-pass filtered images
[PB83-217489] 06 p0918 N84-15969
A model for ordinal filtering of digital images
[AD-A134705] 06 p1232 N84-18052
A comparison of optical versus hardware fourier transforms
[AD-A136223] 09 p1373 N84-18963
Mechanical construction of the 22 Nova laser
[DE84-005432] 11 p1663 N84-20855
Enhancement of spread-spectrum systems through adaptive antenna techniques 13 p1976 N84-22824
Two-dimensional fast Fourier transforms in image processing
[AD-A139997] 15 p2398 N84-25390
Holographic image subtraction by recording in Fourier plane and space filtration with thin light beam 20 p3289 N84-30882

SPATIAL ISOTROPY
U ISOTROPY
U SPATIAL DISTRIBUTION

SPATIAL MARCHING
Random-choice solutions for two-dimensional and axisymmetric supersonic flows 20 p3168 N84-30115

SPATIAL ORIENTATION
U ATTITUDE (INCLINATION)

SPATIAL RESOLUTION
LANDSAT 4 investigations of thematic mapper and multispectral scanner applications
[E84-10017] 02 p0237 N84-11554
Evaluation of spatial, radiometric and spectral thematic mapper performance for coastal studies
[E84-10018] 02 p0237 N84-11555
The United Kingdom SATMaP program
[E84-10002] 04 p0551 N84-13627
Information content of data from the LANDSAT 4 Thematic Mapper (TM) and multispectral scanner (MSS)
[E84-10034] 04 p0551 N84-13628
The use of linear feature detection to investigate thematic mapper data performance and processing
[E84-10037] 04 p0551 N84-13630
The use of thematic mapper data for land cover discrimination: Preliminary results from the UK SATMaP programme
[E84-10038] 04 p0551 N84-13631
Summary and overview 05 p0696 N84-14569
LANDSAT-4 sensor performance
[E84-10053] 05 p0697 N84-14573
10 cm radar ground clutter measurements taken from a coastal steamer radar on passage from Bergen to North Cape in May 1982 06 p0871 N84-15667
The development and test of multi-anode microchannel array detector systems. 2: Soft X-ray detectors
[NASA-CR-173245] 07 p0996 N84-16457
Tabulations of ambient ozone data obtained by GASP (Global Air Sampling Program) airliners, March 1975 to July 1979
[NASA-TM-82742] 09 p1348 N84-18806
Rotational cars application to simultaneous and multiple-point temperature and concentration determination in a turbulent flow
[NASA-CR-3783] 09 p1385 N84-19044
Evaluation of spatial, radiometric and spectral Thematic Mapper performance for coastal studies
[E84-10093] 10 p1522 N84-19964
Registration of TM data to digital elevation models 13 p2004 N84-22999
Soot formation in diffusion flames 15 p2291 N84-24750
Large area spark counters with fine time and position resolution
[DE84-007804] 15 p2337 N84-25031
LANDSAT-4 image data quality analysis
[E84-10134] 16 p2506 N84-26082
Evaluation of solar angle variation over digital processing of LANDSAT imagery — Brazil
[E84-10140] 16 p2507 N84-26088
Multiseasonal variables in digital image enhancements for geological applications
[E84-10145] 16 p2508 N84-26093
Evaluation of SIR-A (Shuttle Imaging Radar) images from the Tres Marias region (Minas Gerais State, Brazil) using derived spatial features and registration with MSS-LANDSAT images
[E84-10148] 16 p2508 N84-26096
Image quality of passive and active scanners
[MBB-UA-684-83-O] 16 p2564 N84-26449
Techniques for studying gravity waves and turbulence: Horizontal, vertical and temporal resolution needed 17 p2688 N84-27116
The satellite altimeter as a platform for observation of the oceanic mesoscale 17 p2718 N84-27299
Techniques of isophotometry 18 p2842 N84-28042
Edge blurring in stacked X-ray film screen combinations
[DE84-009658] 19 p3027 N84-29200
Large area spark counter with fine time and position resolution
[DE84-008203] 19 p3028 N84-29202
Thematic Mapper (TM) instrument description 20 p3205 N84-30363
LANDSAT-4 Science Investigations Summary, including December 1983 Workshop results, volume 2
[E84-10167] 20 p3208 N84-30380
Scan-angle and detector effects in Thematic Mapper radiometry 20 p3209 N84-30386
Assessment of Thematic Mapper band-to-band registration by the block correlation method 20 p3210 N84-30396
Impact of Thematic Mapper sensor characteristics on classification accuracy 20 p3213 N84-30410
Characterization of LANDSAT-4 TM and MSS image quality for interpretation of agricultural and forest resources 20 p3213 N84-30411
Evaluation of LANDSAT-4 Thematic Mapper data as applied to geologic exploration: Summary of results — Death Valley, California, Cement-Velma, Oklahoma; Big Horn and Wind River Basins, Wyoming; Spanish Peaks, Colorado; and the Four Corners area (Paradox Basin of Utah and Colorado) 20 p3213 N84-30412
Preliminary evaluation of Thematic Mapper image data quality 20 p3214 N84-30415
Quick look analysis of TM data of the Washington, District of Columbia area 20 p3214 N84-30418
Thematic Mapper data quality and performance assessment in renewable resources/agriculture remote sensing 20 p3215 N84-30422

Preliminary comparisons of the information content and utility of TM versus MSS data 20 p3215 N84-30423
Parametric and nonparametric analysis of LANDSAT TM and MSS imagery for detecting submerged plant communities 20 p3215 N84-30424
LANDSAT-4 Thematic Mapper scene characteristics for a suburban and regional test site 20 p3216 N84-30429
Measurements of spatially resolved high resolution spectra of laser-produced plasmas
[DE84-012418] 20 p3305 N84-30995
Characterization of the LANDSAT sensors' spatial responses
[E84-10171] 21 p3426 N84-31734
LANDSAT-4 Thematic Mapper Modulation Transfer Function (MTF) evaluation --- San Matteo Bridge and Stockton, California
[E84-10188] 21 p3430 N84-31759
Investigation of several aspects of LANDSAT 4/5 data quality — California, Texas, Arkansas, Alabama, and Pacific Ocean
[E84-10024] 22 p3613 N84-32892
Real-time optical filtering system with spatial and temporal enhancement of visual information
[AD-D011106] 22 p3656 N84-33172
The effect of spatial, spectral and radiometric factors on classification accuracy using Thematic Mapper data 23 p3766 N84-33872
Digital color space transformations 23 p3779 N84-33960
White light optical information processing
[AD-A144142] 24 p3963 N84-35096

SPECIES DIFFUSION
Smooth solutions to a quasi-linear system of diffusion equations for a certain population model
[AD-A129180] 01 p0128 N84-10839
Clines induced by a geographical barrier
[MC-TW-244/83] 07 p1065 N84-16908

SPECIFIC GRAVITY
U DENSITY (MASS/VOLUME)

SPECIFIC HEAT
NT HEAT OF DISSOCIATION
Thermophysical property determination using transient technique
[AD-A130707] 01 p0156 N84-11027
Magnetic properties of CoCl2-intercalated graphite
[AD-A133860] 05 p0648 N84-14260
Specific heat of British, Czechoslovakian, French, German, Japanese, Polish, Romanian and Swedish stainless steels, state-of-the-art report
[AD-A132991] 05 p0655 N84-14306
Thermal property measurement techniques and some results for CdTe
[AD-A133899] 05 p0753 N84-14936
Far-infrared studies on superconductors and heat-capacity studies on liquid crystals
[DE84-001123] 05 p0756 N84-14957
Heat capacity and thermodynamic properties of linear macromolecules 06 p0809 N84-15263
Specific heat of He-3 in the Fermi liquid region
[DE83-011566] 06 p0924 N84-16009
Specific heat of octahydro-1,3,5,7tetranitro-1,3,5,7-tetrazocine (HMX)
[AD-A134564] 07 p0966 N84-16260
Equation of state of fluid NH-3 from P-V-T and ultrasound measurements to 12 kbar
[DE83-015913] 08 p1125 N84-17316
Hydrogen sulfide provisional thermophysical properties from 186 to 700 K at pressures to 75 MPa
[PB84-122704] 08 p1127 N84-17329
Thermal conductivity behavior of boron carbides
[NASA-CR-173165] 09 p1316 N84-18600
Thermal property measurement techniques and some results for CdTe and (Hg,Cd)Te alloys
[AD-A139375] 14 p2242 N84-24482
Changes of phase and waves on depressurization of liquids with high specific heat
[MPIS-MITT-77] 15 p2332 N84-25003
Determination of thermodynamic characteristics of the barium dissolution process in liquid iron
[BLL-M-35634-(5828.4)] 22 p3551 N84-32481
An experimental study of praseodymium intermetallic compounds at low temperatures
[DE83-704748] 24 p3884 N84-34612
The calculation of molecular Eigen-frequencies
[NASA-TM-77759] 24 p3961 N84-35086

SPECIFIC IMPULSE
Ion thruster project
[INPE-2803-PRE/363] 02 p0186 N84-11205
Experimental investigation of a Hall-current thruster
[NASA-CR-168133] 09 p1274 N84-18321
MPD thruster comparisons with advanced chemical systems for auxiliary propulsion applications 20 p3139 N84-29928
The liquid bipropellant stage concept: Filling the OTV gap 20 p3140 N84-29936

SPECIFICATIONS
NT AIRCRAFT SPECIFICATIONS
NT EQUIPMENT SPECIFICATIONS
NT FUNCTIONAL DESIGN SPECIFICATIONS
Proposed revisions to MIL-F-8785C related to flight safety of augmented aircraft. Volume 1. Section 1 - 7
[AD-A131414] 02 p0175 N84-11153
Proposed revisions to MIL-F-8785C related to flight safety of augmented aircraft. Volume 2. Appendices A - F
[AD-A131415] 02 p0176 N84-11154
Proposed revisions to MIL-F-8785C related to flight safety of augmented aircraft. Volume 3. Appendix G. Pilot comments
[AD-A131416] 02 p0176 N84-11155
Evaluation of a draft standard on performance specifications for health physics instrumentation
[DE83-016169] 02 p0266 N84-11749
Evaluation of a draft standard on performance specifications for health physics instrumentation
[DE83-016186] 02 p0266 N84-11750
Design of a system that understands informal specifications
[AD-A131479] 02 p0273 N84-11785
A balloon design for 9000 pounds at 90,000 feet: Recommendations based on heavy-load balloon history
[AD-A131967] 03 p0320 N84-12093
Prerequisites for deriving formal specifications from natural language requirements
[AD-A131722] 03 p0424 N84-12771
Proceedings of the Third LAN-Transport Workshop. Report of the Third Workshop for Local Area Network Implementors of the NBS Specifications of the International Standards Organization Transport Class 4 Protocol Special Interest Group on File Transfer Protocol
[PB83-251348] 04 p0584 N84-13857
An argument for soft layering of protocols
[AD-A133948] 05 p0718 N84-14708
Combining testing with formal specifications: A case study
[AD-A134110] 05 p0726 N84-14764
Computer program development specification for Ada integrated environment: KAPSE (Kernel Ada Programming Support Environment)/Database, type b5, B5-AIE(1).KAPSE(1)
[AD-A134092] 05 p0726 N84-14766
Computer program development specification for Ada integrated environment: Virtual memory methodology, B5-AIE(1).VMM(2)
[AD-A134091] 05 p0726 N84-14767
System specification for Ada integrated environment type A AIE(1)
[AD-A134080] 05 p0726 N84-14769
Computer program development specification for Ada integrated environment: MAPSE debugging facilities, B5-AIE(1).DBUG(1)
[AD-A134070] 05 p0727 N84-14771
Computer program development specification for Ada integrated environment. Ada compiler phases B5-AIE (1). COMP (1)
[AD-A134032] 05 p0727 N84-14773
A 2-tiered approach to specifying programs
[AD-A133949] 05 p0727 N84-14775
Factors affecting specifications for computer software programs
[AD-A133070] 05 p0730 N84-14792
Split-Stirling-cycle displacer linear-electric drive 06 p0820 N84-15343
Investigations on the reproducibility of the results of drop weight tests by the method of W. S. Pellini
[BLL-DRIC-T-6970-(3623.66)] 06 p0846 N84-15517
Information needs and system specifications for the B-1B executive information system
[AD-A134424] 07 p1085 N84-17054
Initial graphics exchange specification test library, version 1.3
[PB84-102144] 08 p1214 N84-17922
USN/USAF Anti-G-Suit consolidation program
[AD-A136136] 09 p1364 N84-18908
Preliminary report on the Larch shared language
[AD-A136117] 09 p1369 N84-18939
ARDS (Automated Requirements Development System) user's manual. Volume 1: Document analysis, revision
[AD-A135925] 09 p1398 N84-19128
Automated en route air traffic control algorithmic specifications. Volume 3: Flight plan conflict probe
[AD-A136795] 10 p1425 N84-19319
Automated en route air traffic control algorithmic specifications. Volume 1: Trajectory estimation
[AD-A137086] 10 p1426 N84-19328
Public announcement of flight opportunity for materials science experiments on the Spacelab Mission D1: Extract
[NASA-TM-77277] 10 p1434 N84-19378
NOAA position for TM data distribution 10 p1524 N84-19981
Technical specifications for spread function model
[AD-A137292] 10 p1575 N84-20321
Specification of the transmitted signal of the OMEGA navigation system
[AD-A137673] 11 p1605 N84-20509
Initial acceleration for electromagnetic launchers: A feasibility study on chemical propellants
[MRL-TN-478] 11 p1639 N84-20712
SANDUS MA164 digital data acquisition system specifications, November 8, 1982
[DE84-006502] 11 p1704 N84-21110
Graphics specification for graphical requirements for computer-aided control system design
[DE84-004367] 11 p1708 N84-21135
Guidelines-software verification
[DE84-003899] 11 p1709 N84-21136
Specifications for a federal information processing standard data dictionary system 11 p1749 N84-21414
Volumetric representation for object model acquisition 12 p1870 N84-22189
The European Transonic Windtunnel (ETW) 14 p2094 N84-23566
The cryogenic wind tunnel Cologne 14 p2095 N84-23568
NASA broad-specification fuels combustion technology program 14 p2107 N84-23637
NASA/General Electric broad-specification fuels combustion technology program 14 p2107 N84-23638
Development of the A-6E/A-6E TRAM/KA-6D NATOPS (Naval Air Training and Operating Procedures Standardization) calculator aided performance planning system (NCAPPS)
[AD-A138897] 14 p2186 N84-24100
ERB master archival tape specification no. T 134081 ERB MAT, revision 1
[NASA-TM-85612] 14 p2204 N84-24230
Current procurement specification design requirements for US Navy aircraft 16 p2434 N84-25615
Current requirements on specifications for corrosion prevention 16 p2435 N84-25618
The black-anodizing of aluminum with inorganic dyes
[ESA-PSS-01-703-ISSUE-1] 16 p2465 N84-25798
Contamination and cleanliness control
[ESA-PSS-01-201-ISSUE-1] 16 p2475 N84-25867
The cleaning of GUIDE-SPACE D96 tape
[ESA-PSS-01-732-ISSUE-1] 16 p2477 N84-25882
The crimping of high-reliability electrical connections
[ESA-PSS-01-726-ISSUE-1] 16 p2485 N84-25937
Software quality assurance plans
[ESA-PSS-01-101-ISSUE-1] 16 p2500 N84-26041
System requirements for a SCPC FM low capacity Earth station — Brazil
[INPE-2943-NTE/207] 17 p2652 N84-26958
A fast interpolator with slope specification
[INPE-3058-PRE/478] 17 p2751 N84-27482
Computer analysis of effects of altering jet fuel properties on refinery costs and yields
[NASA-CR-174642] 18 p2820 N84-27908
Development of a qualification standard for adhesives used in hybrid microcircuits
[NASA-CR-161978] 18 p2832 N84-27979
Reuse in the context of a transformation based methodology
[AD-A141514] 19 p2984 N84-28910
Development of standardized specifications for screening space level integrated circuits and semiconductors
[NASA-CR-171100] 19 p3012 N84-29093
Specification and transformation: Automated implementation
[AD-A141064] 19 p3074 N84-29505
Tools for specification validation and understanding
[AD-A141079] 19 p3074 N84-29506
Kernel Ada Programming Support Environment (KAPSE) interface team, public report, volume 3
[AD-A141576] 19 p3077 N84-29523
USAF durability design handbook: Guidelines for the analysis and design of durable aircraft structures
[AD-A142424] 20 p3128 N84-29666
The evaluation and approval of automatic machine wave soldering for ESA spacecraft hardware
[ESA-PSS-01-707] 20 p3182 N84-30215
Requirements for high-temperature air-cooled central receivers
[DE84-000081] 20 p3235 N84-30534
MIL-STD-1750A verification testing
[AD-P003555] 21 p3335 N84-31159
An integrated approach to a successful embedded computer resource project
[AD-P003574] 21 p3338 N84-31179
MIL-PRIME Program System
[AD-P003576] 21 p3338 N84-31181

Quality-assurance tests of five Y-12 Kevlar-49 spools used to fabricate strands and reliability specimens for stress-rupture tests
[DE84-012373] 21 p3357 N84-31295
Seismological studies of the continental lithosphere
[PB84-194752] 21 p3446 N84-31862
High angle of attack test and evaluation techniques for the 1980s 24 p3847 N84-34399
Flight termination receiver catalog
[AD-A144155] 24 p3894 N84-34857

SPECIMEN GEOMETRY
The effects of specimen size, specimen geometry and data analysis procedures on ductile crack growth resistance curves
[AERE-R-10906] 01 p0098 N84-10638
Three-dimensional computer modeling of a shock-recovery experiment
[DE83-015915] 02 p0220 N84-11441
Effect of specimen geometry on stable crack growth by nonlinear material behavior
[GKSS-83-E-36] 10 p1483 N84-19554
Mode 2 fatigue crack growth specimen development
[NASA-TM-83722] 19 p3034 N84-29248

SPECIMENS
X-ray imaging of biological specimens
[DE84-006287] 12 p1819 N84-21855
Surface embrittlement of polyethylene pipe grade resins
[PB84-181973] 17 p2627 N84-26811

SPECKLE PATTERNS
NDE techniques for composite laminates 01 p0033 N84-10205
SAR speckle noise reduction using Wiener filter 03 p0393 N84-12568
Time-varying speckle phenomena in astronomical imaging and in laser scattering 06 p1242 N84-18118
Speckle statistics in radar images of sea surface obtained with horizontal polarization 18 p2823 N84-27921
Theory of acoustic speckle 21 p3490 N84-32114

SPECTRA
NT ABSORPTION SPECTRA
NT ATOMIC SPECTRA
NT BALMER SERIES
NT CONTINUOUS SPECTRA
NT ELECTROMAGNETIC SPECTRA
NT ELECTRONIC SPECTRA
NT EMISSION SPECTRA
NT ENERGY SPECTRA
NT FRAUNHOFER LINES
NT GAMMA RAY SPECTRA
NT H ALPHA LINE
NT H BETA LINE
NT H GAMMA LINE
NT H LINES
NT INFRARED SPECTRA
NT LINE SPECTRA
NT MASS SPECTRA
NT MICROWAVE SPECTRA
NT MOLECULAR SPECTRA
NT NEUTRON SPECTRA
NT NOISE SPECTRA
NT PLASMA SPECTRA
NT POWER SPECTRA
NT RADIATION SPECTRA
NT RADIO SPECTRA
NT RAMAN SPECTRA
NT RYDBERG SERIES
NT SHOCK SPECTRA
NT SOLAR SPECTRA
NT SPECTRAL BANDS
NT STELLAR SPECTRA
NT ULTRAVIOLET SPECTRA
NT VIBRATIONAL SPECTRA
NT VISIBLE SPECTRUM
NT X RAY SPECTRA
Two dimensional linear prediction models. Part 1. Spectral factorization and realization
[AD-A130954] 02 p0280 N84-11833
Structure and vibrational spectra of a model of a-Si:H with periodic boundary conditions
[DE83-015245] 03 p0367 N84-12390
Ocean color studies from Salyut-7 05 p0633 N84-14164
A catalogue of spreading modulation spectra
[AD-A134850] 06 p1145 N84-17454
FM spectral modeling and FDM/FM simulation programs
[PB84-118934] 06 p1147 N84-17469
The optical spectra of aerosols
[AD-A135667] 09 p1377 N84-18993
Joint agency turbulence experiment: Environmental research paper
[AD-A137167] 11 p1667 N84-21005
A high-resolution study of ultra-heavy cosmic-ray nuclei (A0178) 15 p2275 N84-24661
Statistics of crack growth in engine materials. Volume 2: Spectrum loading and advanced techniques
[AD-A140920] 17 p2680 N84-27072
Properties of echo spectra observed by MST radars 17 p2696 N84-27171
Generalized spectra of slightly nonlinear Rossby waves 17 p2696 N84-27187
NASA-Texas Planetary Program
[NASA-CR-173708] 19 p3121 N84-29842
Fundamental and harmonic emission in interplanetary type 2 radio bursts
[NASA-TM-86099] 20 p3320 N84-31079
Optical and electrical properties of organic dye crystals
[DE84-014930] 22 p3666 N84-33240
A study of the temporal and spectral characteristics of gamma ray bursts 22 p3680 N84-33331
A theoretical model for the cross spectra between pressure and temperature downstream of a combustor
[NASA-TM-83671] 23 p3821 N84-34231
Distortions in frequency spectra of signals associated with sampling-pulse shapes
[DE84-701747] 24 p3896 N84-34672
The 1978 - 1984 fading of the Seyfert 1 galaxy F-9 24 p3972 N84-35149

SPECTRAL ABSORPTION
U ABSORPTION SPECTRA

SPECTRAL ANALYSIS
U SPECTRUM ANALYSIS

SPECTRAL BANDS
NT ABSORPTION SPECTRA
NT FRAUNHOFER LINES
LANDSAT 4 band 6 data evaluation
[E84-10012] 02 p0236 N84-11550
The United Kingdom SATMaP program
[E84-10002] 04 p0551 N84-13627
Application of remote sensing to hydrological problems and floods
[E84-10046] 04 p0553 N84-13639
Evaluation of radiometric and geometric characteristics of LANDSAT-D imaging system
[E84-10050] 04 p0553 N84-13643
Polarization effects in the luminescence of cadmium selenide electrodes
[AD-A133951] 05 p0647 N84-14253
Using photoconductivity to improve image-tube gating speeds
[DE84-001732] 05 p0676 N84-14443
LANDSAT 4 band 6 data evaluation
[E84-10054] 05 p0697 N84-14574
LANDSAT 4 investigation of thematic mapper and multispectral scanner applications
[E84-10075] 07 p1021 N84-16622
Investigation of several aspects of LANDSAT-4 data quality
[E84-10076] 07 p1021 N84-16623
Electronic spectra from molecular dynamics: A simple approach
[AD-A134325] 07 p1071 N84-16961
The 12 micron band of ethane: A spectral catalog from 765 cm(-1) to 900 cm(-1)
[NASA-TM-85106] 10 p1454 N84-19493
An analysis of new techniques for radiometric correction of LANDSAT-4 Thematic Mapper images — Terrebonne Bay, Louisiana and Grand Bahamas scenes
[E84-10086] 10 p1521 N84-19957
Revised radiometric calibration technique for LANDSAT-4 Thematic Mapper data by the Canada Centre for Remote Sensing 10 p1522 N84-19967
Revised radiometric calibration technique for LANDSAT-4 Thematic Mapper data 10 p1522 N84-19968
LANDSAT-4 MSS interband registration 10 p1523 N84-19969
LANDSAT-MSS multitemporal registration — Ottawa, Canada 10 p1523 N84-19970
Radiometric calibration and geocoded precision processing of LANDSAT-4 MSS products 10 p1523 N84-19975
Fluorescence and electron energy loss cross sections in mercuric bromide
[AD-A137153] 11 p1629 N84-20657
Spectroscopy and kinetics of lead oxide chemiluminescence
[AD-A138250] 12 p1792 N84-21687
LANDSAT 4 band 6 data evaluation
[E84-10119] 13 p2005 N84-23009
Investigation of several aspects of LANDSAT-4 data quality — Sacramento, San Francisco, and NE Arkansas
[E84-10122] 14 p2167 N84-23981
Multispectral linear array multiband selection device
[NASA-CASE-GSC-12911-1] 15 p2335 N84-25018
Analysis of carbon dioxide bands near 2.2 micrometers
[NASA-CR-173605] 16 p2462 N84-25779
Visible spectra of standard Navy colored flares
[AD-A140342] 16 p2474 N84-25858
Spectroradiometric calibration of the Thematic Mapper and Multispectral Scanner system — White Sands, New Mexico
[E84-10136] 16 p2506 N84-26084
LANDSAT-D Thematic Mapper image dimensionality reduction and geometric correction accuracy — Walnut Creek Watershed, Texas
[E84-10149] 16 p2508 N84-26097
Discriminating vegetation and soils using LANDSAT MSS and Thematic Mapper bands and band ratios
[AD-A140198] 16 p2510 N84-26108
LANDSAT 4 investigations of Thematic Mapper and Multispectral Scanner applications
[E84-10152] 17 p2709 N84-27247
Theoretical study of the radiative and kinetic properties of selected metal oxides and air molecules
[AD-A141230] 18 p2811 N84-27847
Thematic Mapper Image Processing System (TIPS) processing status 20 p3206 N84-30368
Relative radiometric calibration of LANDSAT TM reflective bands — San Francisco, California 20 p3207 N84-30374
Evaluation of the radiometric integrity of LANDSAT-4 Thematic Mapper band 6 data 20 p3207 N84-30375
Thermal band characterization of LANDSAT-4 Thematic Mapper — Buffalo, New York and water temperature in Lake Erie 20 p3207 N84-30376
TM failed detectors data replacement 20 p3208 N84-30382
In-flight absolute radiometric calibration of the Thematic Mapper 20 p3208 N84-30383
LANDSAT-4 Thematic Mapper calibration and atmospheric correction 20 p3209 N84-30384
Intraband radiometric performance of the LANDSAT-4 Thematic Mapper 20 p3209 N84-30389
Investigation of TM band-to-band registration using the JSC registration processor 20 p3211 N84-30398
Radiometric accuracy assessment of LANDSAT-4 Multispectral Scanner (MSS) data — Vermont 20 p3211 N84-30401
Characterization of LANDSAT-4 TM and MSS image quality for interpretation of agricultural and forest resources 20 p3213 N84-30411
Spectral and invertibility properties of band matrices
[AD-A142637] 20 p3281 N84-30831
Nature of polarized vibronic sidebands of biexciton absorption in Alpha-oxygen 20 p3289 N84-30884
Characterization of the LANDSAT sensors' spatial responses
[E84-10171] 21 p3426 N84-31734
Prelaunch absolute radiometric calibration of the reflective bands on the LANDSAT-4 protoflight Thematic Mapper
[E84-10180] 21 p3426 N84-31751
Prelaunch absolute radiometric calibration of LANDSAT-4 protoflight Thematic Mapper
[E84-10181] 21 p3429 N84-31752
Spectral characterization of the LANDSAT Thematic Mapper sensors
[E84-10184] 21 p3429 N84-31755
Relative radiometric calibration of LANDSAT TM reflective bands
[E84-10186] 21 p3429 N84-31757
Investigation of LANDSAT D Thematic Mapper geometric performance: Line to line and band to band registration — Toulouse, France and Mississippi, U.S.A.
[E84-10187] 21 p3429 N84-31758
LANDSAT-4 Thematic Mapper Modulation Transfer Function (MTF) evaluation — San Matteo Bridge and Stockton, California
[E84-10188] 21 p3430 N84-31759
Investigation of several aspects of LANDSAT 4/5 data quality — California, Texas, Arkansas, Alabama, and Pacific Ocean
[E84-10024] 22 p3613 N84-32892
Development of a spectroradiometer with a linear network of detectors from standard CCD
[INPE-3095-TDL/165] 22 p3657 N84-33180

SPECTRAL CORRELATION
LANDSAT-4 MSS and TM spectral class comparison and coherent noise analysis — The Des Moines, Iowa area 20 p3208 N84-30381
TM failed detectors data replacement 20 p3208 N84-30382
Thematic Mapper spectral dimensionality and data structure 20 p3209 N84-30387
MTF analysis of LANDSAT-4 Thematic Mapper 20 p3209 N84-30388
Analysis of LANDSAT-4 TM data for lithologic and image mapping purpose 20 p3209 N84-30390

Assessment of Thematic Mapper band-to-band registration by the block correlation method
20 p3210 N84-30396
Correlation spectrometer having high resolution and multiplexing capability
[NASA-CASE-NPO-16558-1] 24 p3901 N84-34705
SPECTRAL EMISSION
Vibrational spectroscopy of chemisorbed molecules by infrared emission
[DE84-000956] 04 p0602 N84-13973
COCHISE observations of Argon Rydberg emission from 2 to 16 micrometers
[AD-A137916] 11 p1732 N84-21296
Infrared emission associated with chemical reactions on Shuttle and SIRTF surfaces
[NASA-TM-85875] 12 p1921 N84-22515
Energetic electrons in impulsive solar flares
[NASA-TM-86102] 14 p2251 N84-24519
Very recent IUE observations of 2 BL Lacertae orbits
15 p2424 N84-25561
Modelling solar spectral irradiance variations at ultraviolet wavelengths 17 p2780 N84-27651
An explanation of the spectral seasonal variations in the night airglow emissions
[KGI-PREPRINT-066] 18 p2880 N84-28288
High resolution cathodoluminescence of yellow and waterclear CVD polycrystalline ZnS
[AD-A141100] 19 p3110 N84-29759
SPECTRAL ENERGY DISTRIBUTION
On a relation between Maximum-Likelihood classification and Minimum-Cross-Entropy classification
[AD-A132237] 04 p0521 N84-13426
An automatic fitting procedure for comparing observed and computed spectral distributions — stellar spectra
09 p1408 N84-19200
Quasars as probes of the intergalactic medium
24 p3972 N84-35154
Flux variations of 88 Her through phase transition from far UV to visual 24 p3976 N84-35184
SPECTRAL LINE WIDTH
Molecular velocimetry using stimulated Raman spectroscopy
[NASA-TM-85808] 15 p2405 N84-25433
Mesospheric turbulence intensities measured with a HF radar at 35 deg S. Part 2 17 p2689 N84-27128
SPECTRAL LINES
U LINE SPECTRA
SPECTRAL METHODS
Bayes least squares linear regression is asymptotically full Bayes: Estimation of spectral densities
[AD-A138351] 12 p1897 N84-22352
Spectral methods for partial differential equations
[AD-P002960] 14 p2202 N84-24216
The efficient use of spectral and finite difference methods for the solution of certain hyperbolic and parabolic problems
[AD-A139477] 14 p2214 N84-24299
Computational Fluid Dynamics, volume 1
[VKI-LS-1984-04-VOL-1] 16 p2491 N84-25980
Recent developments of spectral and pseudospectral methods in fluid dynamics 16 p2492 N84-25965
Data analysis techniques: Spectral processing
17 p2695 N84-27168
Applications of spectral methods to turbulent magnetofluids in space and fusion research
[NASA-CR-173665] 17 p2757 N84-27505
A high-resolution target-tracking concept using spectral estimation techniques
[AD-A141921] 20 p3173 N84-30149
Studies of Chebyshev spectral methods and multigrid methods
[AD-A142014] 20 p3245 N84-30596
Spectral methods for compressible flow problems
[NASA-CR-172395] 20 p3279 N84-30616
Diagnostics for an XUV/soft X-ray laser
[DE84-012593] 21 p3410 N84-31628
Similarity criteria for spectra of pressure fluctuations in turbulent boundary layer at wall
21 p3480 N84-32059
The exponential accuracy of Fourier and Tchebyshev differencing methods
[NASA-CR-172435] 22 p3645 N84-33108
The time evolution of spectral discretizations of hyperbolic systems
[NASA-CR-172432] 22 p3645 N84-33113
Study of the system of middle atmosphere-ionosphere using remote-sensing data
[NASA-TM-77764] 23 p3797 N84-34074
SPECTRAL NOISE
U WHITE NOISE
SPECTRAL RECONNAISSANCE
The use of airborne thematic mapper simulation data for the estimation and mapping of Green Leaf Area Index (GLAI) 03 p0398 N84-12602
Operational utilization of remote sensing in a study of the impact of disposal of urban waste at sea
03 p0400 N84-12611
Development of visible/infrared/microwave agriculture classification and biomass estimation algorithms, volume 2 — Oklahoma and Texas
[E84-10059] 06 p0864 N84-15629
Earth Resources: A continuing bibliography with indexes, issue 40
[NASA-SP-7041(40)] 09 p1336 N84-18723
The use of satellite technology in the search for meteorites in Antarctica aut 01Meunier, Tony K.
14 p2163 N84-23955
Geology 20 p3218 N84-30442
Earth resources, a continuing bibliography with indexes
[NASA-SP-7041(42)] 21 p3425 N84-31725
Fast automatic reconnaissance in land observations images by means of analog and/or digital images
23 p3766 N84-33865
Crop identification by means of spectral profiles — hand held radiometers 23 p3768 N84-33888
An analysis of the effect of biological and physical parameters of a wetlands grass biome on the spectral modeling of phytomass and primary productivity
23 p3769 N84-33891
SPECTRAL REFLECTANCE
An analysis of spectral discrimination between corn and soybeans using a row crop reflectance model
[E84-10008] 01 p0099 N84-10642
Seasonal soybean crop reflectance
[E84-10049] 04 p0553 N84-13642
Spectral reflectance of near-earth asteroids: Implications for composition, origin and evolution
05 p0762 N84-15000
In-flight absolute radiometric calibration of the thematic mapper
[E84-10064] 06 p0865 N84-15633
H Division: Materials physics
[DE84-001083] 07 p1068 N84-16939
Increase of cold tolerance in cotton plant (Gossypium hirsutum L.) by mepiquat chloride
[E84-10086] 10 p1521 N84-19959
Reflectance measurements of cotton leaf senescence altered by mepiquat chloride
[E84-10089] 10 p1521 N84-19960
Remote sensing of agricultural crops and soils
[E84-10107] 12 p1829 N84-21925
Intercepted photosynthetically active radiation estimated by spectral reflectance — Phoenix, Arizona
[E84-10109] 12 p1829 N84-21927
Fundamental remote sensing science research program. Part 1: Scene radiation and atmospheric effects characterization project
[NASA-TM-86078] 12 p1830 N84-21929
Reflectance modeling 12 p1830 N84-21931
Bidirectional reflectance modeling of non-homogeneous plant canopies 12 p1830 N84-21932
Comprehensive understanding for vegetated scene radiance relationships 12 p1830 N84-21933
Measurement and modeling of the optical scattering properties of crop canopies 12 p1831 N84-21934
Reflectance modeling 12 p1831 N84-21935
A study of the relation between crop growth and spectra reflectance parameters 12 p1831 N84-21936
Bidirectional spectral reflectance of Earth resources: Influence of scene complexity and atmospheric effects on remote sensing 12 p1833 N84-21948
A study of the relation between crop growth and spectra reflectance parameters 12 p1833 N84-21949
Atmospheric model development
13 p2004 N84-22998
Spectroradiometric calibration of the Thematic Mapper and multispectral scanner system
[E84-10098] 13 p2004 N84-23000
Sensor radiance for a midlatitude atmospheric model
13 p2004 N84-23001
In-flight absolute radiometric calibration of the Thematic Mapper — White Sands, New Mexico
13 p2004 N84-23002
Glaciological and geological studies of Antarctica with satellite remote sensing technology
14 p2163 N84-23956
Thermal control surface experiment (S0069)
15 p2273 N84-24649
Optical properties of melting snow, 1
15 p2354 N84-25122
Discriminating vegetation and soils using LANDSAT MSS and Thematic Mapper bands and band ratios
[AD-A140198] 16 p2510 N84-26108
Estimating spectral indices from transforms of discrete representations of density functions
[AD-A140164] 16 p2557 N84-26404
Spectral characteristics of the MST radar returns
17 p2685 N84-27094
Identification and estimation of the area planted with irrigated rice based on the visual interpretation of LANDSAT MSS data
[E84-10164] 17 p2710 N84-27256
Hot spot reflectance measurements applied to green biomass estimation and crop growth monitoring
[NLR-MP-83037-U] 17 p2721 N84-27323
Aboveground biomass estimation in a tidal brackish marsh using simulated Thematic Mapper spectral data
20 p3214 N84-30419
Comparison of CRT (Cathode Ray Tube) antireflection filters
[PB84-202753] 22 p3590 N84-32742
A simulation of remote sensor systems and data processing algorithms for spectral feature classification
[NASA-CR-172393] 22 p3597 N84-32784
Development of a spectroradiometer with a linear network of detectors from standard CCD
[INPE-3095-TDL/165] 22 p3657 N84-33180
Investigation of spectral signatures of differently damaged trees and forest stands
23 p3769 N84-33892
SPECTRAL RESOLUTION
LANDSAT 4 investigations of thematic mapper and multispectral scanner applications
[E84-10017] 02 p0237 N84-11554
Evaluation of spatial, radiometric and spectral thematic mapper performance for coastal studies
[E84-10018] 02 p0237 N84-11555
Information content of data from the LANDSAT 4 Thematic Mapper (TM) and multispectral scanner (MSS)
[E84-10034] 04 p0551 N84-13628
The use of thematic mapper data for land cover discrimination: Preliminary results from the UK SATMaP programme
[E84-10038] 04 p0551 N84-13631
Analysis of multispectral scanner (MSS) and Thematic Mapper (TM) performance (pre-launch and post-launch)
[E84-10043] 04 p0552 N84-13636
Spectral characterization of the LANDSAT thematic mapper sensors
[E84-10065] 06 p0865 N84-15634
A correlation analysis of percent canopy closure versus TMS spectral response for selected forest sites in the San Juan National Forest, Colorado
[E84-10066] 06 p0865 N84-15635
Stationary stochastic processes — spectrum analysis
[ESA-TT-812] 06 p0905 N84-15875
Study of spectral/radiometric characteristics of the thematic mapper for land use applications
[E84-10058] 07 p1020 N84-16615
Comparison of the information content of data from the LANDSAT 4 Thematic Mapper and the multispectral scanner
[E84-10081] 08 p1173 N84-17841
A search for Earth-crossing asteroids
[NASA-CR-175374] 08 p1245 N84-18139
Evaluation of spatial, radiometric and spectral Thematic Mapper performance for coastal studies
[E84-10093] 10 p1522 N84-19964
A high resolution solar atlas for fluorescence calculations
[NASA-CR-173366] 10 p1597 N84-20465
Deep level impurities in germanium and silicon: Low temperature passivation or removal techniques
[DE84-006772] 13 p2048 N84-23296
Multiseasonal variables in digital image enhancements for geological applications
[E84-10145] 16 p2508 N84-26093
Image quality of passive and active scanners
[MBB-UA-684-83-O] 16 p2564 N84-26449
Thematic Mapper (TM) instrument description
20 p3205 N84-30363
Spectral characterization of the LANDSAT Thematic Mapper sensors 20 p3207 N84-30372
Investigation of TM band-to-band registration using the JSC registration processor 20 p3211 N84-30398
Spectral characterization of the LANDSAT-4 MSS sensors 20 p3211 N84-30402
Impact of Thematic Mapper sensor characteristics on classification accuracy 20 p3213 N84-30410
Characterization of LANDSAT-4 TM and MSS image quality for interpretation of agricultural and forest resources 20 p3213 N84-30411
Quick look analysis of TM data of the Washington, District of Columbia area 20 p3214 N84-30418
Thematic Mapper data quality and performance assessment in renewable resources/agriculture remote sensing 20 p3215 N84-30422
Preliminary comparisons of the information content and utility of TM versus MSS data 20 p3215 N84-30423
Parametric and nonparametric analysis of LANDSAT TM and MSS imagery for detecting submerged plant communities 20 p3215 N84-30424

The use of Thematic Mapper data for land cover discrimination: Preliminary results from the UK Satmap programme 20 p3216 N84-30428
LANDSAT-4 Thematic Mapper scene characteristics for a suburban and regional test site 20 p3216 N84-30429
Spectral significance of Modular Optoelectronic Multispectral Scanner (MOMS) versus LANDSAT data and future aspects: Preliminary results 23 p3765 N84-33864
The effect of spatial, spectral and radiometric factors on classification accuracy using Thematic Mapper data 23 p3766 N84-33872

SPECTRAL SENSITIVITY
LANDSAT-4 sensor performance [E84-10053] 05 p0697 N84-14573
Investigation of several aspects of LANDSAT-4 data quality [E84-10076] 07 p1021 N84-16623
Evaluation of thermal data for geologic applications [NASA-CR-173211] 07 p1033 N84-16703
A laboratory investigation of the reflective properties of simulated, optically thick clouds [NASA-CR-175362] 08 p1190 N84-17755
Pre-launch absolute radiometric calibration of LANDSAT-4 protoflight Thematic Mapper 20 p3207 N84-30373
Relative radiometric calibration of LANDSAT TM reflective bands — San Francisco, California 20 p3207 N84-30374
Thermal band characterization of LANDSAT-4 Thematic Mapper — Buffalo, New York and water temperature in Lake Erie 20 p3207 N84-30376
LANDSAT-4 MSS and TM spectral class comparison and coherent noise analysis — The Des Moines, Iowa area 20 p3208 N84-30381
Evaluation of LANDSAT-4 Thematic Mapper data as applied to geologic exploration: Summary of results — Death Valley, California, Cement-Velma, Oklahoma; Big Horn and Wind River Basins, Wyoming; Spanish Peaks, Colorado; and the Four Corners area (Paradox Basin of Utah and Colorado) 20 p3213 N84-30412
Spectral characterization of the LANDSAT Thematic Mapper sensors [E84-10184] 21 p3429 N84-31755
Changes in TM response of soil scenes due to tillage, residue, and weathering — Landsat Thematic Mapper (TM) 23 p3766 N84-33874
Development of a production process for central receiver coatings [BMFT-FB-T-84-124] 23 p3792 N84-34051

SPECTRAL SIGNATURES
Spectral methods for partial differential equations [NASA-CR-172248] 02 p0280 N84-11832
Quantile data analysis of image data 03 p0393 N84-12565
LANDSAT 4 investigations of Thematic Mapper and multispectral scanner applications — Death Valley, California; Silver Bell Copper Mine, Arizona, and Dulles Airport near Washington, D.C. [E84-10100] 13 p2004 N84-23003
Standard X-ray diffraction power patterns: Section 20 - data for 71 substances [PB84-155191] 14 p2244 N84-24475
Study on spectral/radiometric characteristics of the Thematic Mapper for land use applications [E84-10130] 15 p2357 N84-25140
Evaluation of entropy and JM-distance criterions as features selection methods using spectral and spatial features derived from LANDSAT images [E84-10141] 16 p2507 N84-26089
Understanding and utilization of Thematic Mapper and other remotely sensed data for vegetation monitoring [E84-10150] 16 p2508 N84-26098
Evaluating LANDSAT-4 MSS and TM data [E84-10157] 17 p2709 N84-27249
Infrared measurements of vehicles and weapons [AD-A141177] 18 p2932 N84-28592
Preliminary geologic/spectral analysis of LANDSAT-4 Thematic Mapper data, Wind River/Bighorn basin area, Wyoming 20 p3213 N84-30413
Analysis of polynuclear aromatic hydrocarbons in particulate matter by luminescence techniques [PB84-161882] 21 p3363 N84-31333
Radiometric calibration and processing procedure for reflective bands on LANDSAT-4 protoflight Thematic Mapper [E84-10056] 21 p3426 N84-31731
Age discrimination among basalt flows using digitally enhanced LANDSAT imagery — Saudi Arabia [E84-10189] 21 p3430 N84-31760

SPECTRAL THEORY
An exhaustive analysis of multiplicative congruential random number generators with modulus 2(31)-1 [AD-A143085] 21 p3473 N84-32015

SPECTROGRAMS
Historical carbon dioxide: Abundances derived from the Smithsonian spectrobolograms [DOE/NBB-0063] 23 p3793 N84-34056

SPECTROGRAPHS
NT HIGH DISPERSION SPECTROGRAPHS
X-ray streak crystal spectrography — spectra of laser produced plasmas [DE83-015618] 02 p0225 N84-11473
Interfacing a two-stage image intensifier tube to an echelle spectrograph 06 p0929 N84-16035
NASA-Texas Planetary Program [NASA-CR-173798] 19 p3121 N84-29642
Studies of X-ray clusters of galaxies/intergalactic plasmas [NASA-CR-173825] 20 p3319 N84-31068
Diagnostics for an XUV/soft X-ray laser [DE84-012593] 21 p3410 N84-31628
Instrumentation studies for FUSE-Columbus 24 p3962 N84-35229

SPECTROHELIOGRAPHS
Solar EUV, XUV and soft X-ray telescope facilities [NASA-CR-170602] 02 p0305 N84-11999
Analysis of hydroxyl data from comet Austin 1982g 24 p3961 N84-35223

SPECTROHELIOSCOPES
U SPECTROHELIOGRAPHS

SPECTROMETERS
NT FABRY-PEROT SPECTROMETERS
NT GAMMA RAY SPECTROMETERS
NT HIGH DISPERSION SPECTROGRAPHS
NT INFRARED SPECTROMETERS
NT LASER SPECTROMETERS
NT MASS SPECTROMETERS
NT MICROWAVE SPECTROMETERS
NT NEUTRON SPECTROMETERS
NT SOLAR SPECTROMETERS
NT SPECTROHELIOGRAPHS
NT TIME OF FLIGHT SPECTROMETERS
NT ULTRAVIOLET SPECTROMETERS
Studies of an inductively coupled plasma with a Fourier-transform spectrometer [DE83-014194] 01 p0151 N84-10991
Parallel processor for fast event analysis [DE83-014050] 02 p0271 N84-11770
SPEC-DOC: A user's guide to spectrometer software [DE83-013295] 02 p0274 N84-11790
Cryogenic system for a superconducting spectrometer [DE83-012995] 02 p0299 N84-11961
Proton electrostatic analyzer [AD-A133588] 06 p0848 N84-15528
Major detectors in elementary particle physics [LBL-91-SUPPL] 06 p0910 N84-15910
Experience of the axial field spectrometer at the CERN ISR 06 p0910 N84-15912
Searching for limitations in capability due to high average rates 06 p0911 N84-15919
Jet-impact nebulization for sample introduction in inductively coupled plasma spectrometry [AD-A133152] 06 p0920 N84-15982
Development of a mercuric iodide solid state spectrometer for X-ray astronomy [NASA-CR-175330] 06 p0938 N84-16096
User's guide for SBUV/TOMS ozone derivative products [NASA-RP-1116] 07 p1036 N84-16720
Photoacoustic Absorption Spectroscopy (PAS) measurements [AD-A136591] 09 p1388 N84-19067
Atomic and molecular gas phase spectrometry [AD-A135971] 09 p1392 N84-19088
A balloon-borne high-resolution spectrometer for observations of gamma-ray emission from solar flares [NASA-TM-86069] 09 p1416 N84-19266
Development of a high resolution cylindrical crystal spectrometer for line shape and spectral diagnostics of X-rays emitted from-hot-plasmas [DE84-005684] 11 p1661 N84-20635
An absolute calibration method for electron cyclotron emission spectrometers [REPT-83-149] 13 p1994 N84-22941
Millimeter wave attenuation in moist air: Laborstory measurements and analysis [AD-A139502] 14 p2140 N84-23832
Thermal detectors as X-ray spectrometers [NASA-TM-86092] 14 p2148 N84-23866
Acoustic-optic spectrometer. 1: Noise contributions and system consideration [NASA-TM-85613] 14 p2221 N84-24326
Design of a precision etalon position control system for a cryogenic spectrometer 15 p2348 N84-25093
Brazil national report on radio astronomy (1981 - 1984) [INPE-3052-PRE/473] 16 p2573 N84-26516
Some case studies of ocean wave physical processes utilizing the GSFC airborne radar ocean wave spectrometer 17 p2715 N84-27283
Organophosphorus selective ion mobility spectrometer [AD-D011010] 19 p3027 N84-29196
High resolution, high rate X-ray spectrometer [DE84-011116] 20 p3190 N84-30266
Measurements of high resolution spectra on the Omega laser at Rochester University [DE84-012419] 20 p3195 N84-30290
Measurements of spatially resolved high resolution spectra of laser-produced plasmas [DE84-012418] 20 p3305 N84-30995
Relation between pressure pulse generated in optoacoustic receiver and intensity of stimulating laser pulse 21 p3478 N84-32047
Development of long wavelength semiconductor diode lasers near 26 microns for use in infrared heterodyne spectrometers [NASA-CR-175253] 22 p3600 N84-32602
High energy physics research at Texas Agriculture and Mining University — magnetic monopoles in cosmic rays and hadron calorimeter design [DE84-011616] 22 p3655 N84-33167
Modified Thomson parabola ion spectrometers for use in laser generated plasma experiments [AD-A143296] 22 p3658 N84-33190
Portable reflectance spectrometer [NASA-CASE-NPO-13556-1] 23 p3749 N84-33766
Correlation spectrometer having high resolution and multiplexing capability [NASA-CASE-NPO-15558-1] 24 p3901 N84-34705

SPECTROMETRY
U SPECTROMETERS

SPECTROPHOTOGRAPHY
Ultraviolet response of film candidates for the solar optical telescope photometric filtergraph [NASA-CR-175254] 22 p3656 N84-33178

SPECTROPHOTOMETERS
NT INFRARED SPECTROPHOTOMETERS
Investigating spatial distribution of phytoplankton in Lake Baykal by optical methods 19 p2976 N84-28668
Microspectrophotometer for crystal analysis by absorption reflectometry 20 p3289 N84-30683
Geophysical monitoring for climatic change Number 11, [PB84-181841] 21 p3449 N84-31883

SPECTROPHOTOMETRY
NT STELLAR SPECTROPHOTOMETRY
Colour testing of nitrocellulose propellants by a spectrophotometric method [AD-A133091] 05 p0662 N84-14348
The ionization structure of planetary nebulae. 4: NGC 6853 [NASA-CR-173240] 07 p1090 N84-17088
Boron in the marine atmosphere 13 p2010 N84-23038
Time-resolved spectrophotometry of the nova-like cataclysmic variables RW trianguium and UX Ursa Majoris 13 p2069 N84-23408
Origins of the 3.28 micron dust emission feature 16 p2571 N84-26500
Imagery and spectroscopy of supernova remnants and H-2 regions [NASA-CR-171799] 19 p3121 N84-29641
A modified standard method for the determination of ozone residual concentration by spectrophotometry [PB84-204684] 21 p3363 N84-31335

SPECTROPOLARIMETERS
U POLARIMETERS

SPECTRORADIOMETERS
Spectral behavior of four soils from the state of Sao Paulo at the orbital, field, and laboratory levels [INPE-2878-TDL/144] 02 p0239 N84-11568
Spectroradiometric calibration of the thematic mapper and multispectral scanner system [E84-10045] 04 p0552 N84-13638
A conical scan radiometer for an airplane mission 10 p1534 N84-20050
Prospective use of a mobile radiation system to validate techniques of radiation estimations from satellite records 10 p1536 N84-20064
Measurement of atmospheric transmission over long paths in the infrared spectral region [AD-A139619] 15 p2368 N84-25209
Development of a spectroradiometer with a linear network of detectors from standard CCD [INPE-3095-TDL/165] 22 p3657 N84-33180
Recovery of spectral optical depth and zero-airmass solar spectral irradiance under conditions of temporally varying optical depth 23 p3775 N84-33930

SPECTROSCOPES
U SPECTROMETERS

SPECTROSCOPIC ANALYSIS
NT FLAME SPECTROSCOPY

Studies of an inductively coupled plasma with a Fourier-transform spectrometer
[DE83-014194] 01 p0151 N84-10991
Spectroscopic measurements of solar wind generation
03 p0466 N84-13071
Fast, self-nulling spectroscopic ellipsometer: Instrumentation and application, revision
[DE83-015531] 04 p0605 N84-13994
Spectroscopic studies on surface reactions between minerals and reagents in flotation systems
06 p0817 N84-15324
Least squares methods of analyzing spectroscopic data
[NASA-CR-175335] 07 p1061 N84-16877
Atomic hydrogen beam probing with spectroscopic technique
11 p1736 N84-21324
Characterization of grain boundaries in silicon
[NASA-CR-173459] 12 p1912 N84-22460
Electrochemical and spectroscopic studies of polypyridine complexes of Fe(2)/(3) and Ru(2)/(3) in the aluminum chloride: N-(1-Butyl)Pyridinium chloride molten salt
[AD-A139170] 14 p2122 N84-23715
Solar-assisted hydrogen generation by photoelectrocatalysis: Electric birefringence and ellipsometric spectroscopy of the semiconductor/electrolyte interface
[PB84-169804] 15 p2268 N84-24731
Stellar Spectra and Their Interpretation. 1st conference of the Subcommission No. 2
15 p2421 N84-25540
Some problems in calibrating UBV photometry for effective temperature and surface gravity
15 p2422 N84-25546
Analysis of MgII lines in algol
15 p2422 N84-25547
C1 K-edge X-ray absorption studies of concentrated ferric chloride solutions
[AD-A142190] 19 p2969 N84-28940
Raman spectroscopic study of acetylene on supported rhodium catalysts
[AD-A144099] 23 p3714 N84-33544
Dynamics of heat, mass and momentum transfer in an inductively coupled plasma
[DE84-014121] 23 p3828 N84-34282

SPECTROSCOPIC TELESCOPES

The 70 cm Schmidt telescope of Turku University observatory
09 p1414 N84-19252

SPECTROSCOPY

NT ABSORPTION SPECTROSCOPY
NT ASTRONOMICAL SPECTROSCOPY
NT AUGER SPECTROSCOPY
NT ELECTRON SPECTROSCOPY
NT FLAME SPECTROSCOPY
NT GAS SPECTROSCOPY
NT HOLOGRAPHIC SPECTROSCOPY
NT INFRARED SPECTROSCOPY
NT LASER SPECTROSCOPY
NT MAGNETIC SPECTROSCOPY
NT MASS SPECTROSCOPY
NT MOLECULAR SPECTROSCOPY
NT OPTICAL EMISSION SPECTROSCOPY
NT OPTOGALVANIC SPECTROSCOPY
NT PHOTOACOUSTIC SPECTROSCOPY
NT PHOTOELECTRON SPECTROSCOPY
NT RADIO SPECTROSCOPY
NT RAMAN SPECTROSCOPY
NT SPECTROPHOTOGRAPHY
NT SPECTROPHOTOMETRY
NT SPECTROSCOPIC ANALYSIS
NT STELLAR SPECTROPHOTOMETRY
NT ULTRASONIC SPECTROSCOPY
NT ULTRAVIOLET SPECTROSCOPY
NT X RAY SPECTROSCOPY

Positron spectroscopy applied to the analysis of surfaces
[DE82-006836] 01 p0038 N84-10236
Production of hydrogen by cyanobacteria
[PB83-226379] 01 p0054 N84-10347
Photothermal displacement spectroscopy of surfaces and thin films
[DE83-015957] 03 p0350 N84-12279
International Conference on Vibrations at Surfaces (3rd)
[AD-A131784] 03 p0433 N84-12834
Novel method for the study of optical properties of surfaces
[DE83-012899] 03 p0441 N84-12895
Spectroscopic characterization of the cured state of acetylene-terminated resin
[AD-A133050] 05 p0660 N84-14336
The abundances and evolutionary state of the early R stars
05 p0764 N84-15010
Surface analysis by particle beams
06 p0814 N84-15301
Surface and near-surface analysis of diamond by RBS
06 p0814 N84-15302
Mossbauer spectroscopy study of amorphous Fe67B11Au2 ribbon and its crystallization products
[DE83-018091] 06 p0924 N84-18010
Computational spectroscopy
[DE84-003754] 07 p0971 N84-16290
Least squares methods of analyzing spectroscopic data
[NASA-CR-173241] 07 p1059 N84-16858
CARS studies of nitramine Iova propellant combustion
[AD-A135813] 09 p1280 N84-18357
Prospects for single-molecule detection in liquids by laser-induced fluorescence
[DE84-001702] 09 p1324 N84-18647
The mechanism of Ziegler-Natta polymerization of acetylene: A nutation NMR study
[AD-A137089] 10 p1488 N84-19588
Molecular ion photofragment spectroscopy
[DE84-003299] 10 p1577 N84-20333
Proceedings on Symposium on Atomic Collision Data for Diagnostics and Modelling of Fusion Plasmas
[IPPJ-AM-33] 11 p1734 N84-21310
Atomic processes for plasma diagnostics in Tokamaks
11 p1734 N84-21311
Emission properties of highly ionized iron spectra for spectroscopic plasma diagnostics
11 p1735 N84-21314
Evaluation of excitation cross sections by plasma spectroscopy
11 p1735 N84-21315
Spectroscopy in heliotron E
11 p1735 N84-21320
High resolution X-ray spectra of H- and He-like argon from the Alcator C Tokamak
11 p1735 N84-21321
Stark spectroscopy of hydrogen lines in turbulent plasma. 1: Low-frequency turbulence
[DE84-004443] 11 p1737 N84-21333
The development of computer routines to perform a comprehensive analysis of spectroscopic data from diatomic molecules
[AD-A138063] 12 p1791 N84-21680
Spectroscopic investigations of materials for tunable infrared lasers
[AD-A138324] 12 p1821 N84-21869
A study of the relation between crop growth and spectra reflectance parameters
12 p1833 N84-21949
Advanced diagnostics for reacting flows
13 p1943 N84-22637
Research into the thermal decomposition of selected energetic material candidates (Project order ATL-2-094)
[AD-A138730] 13 p1966 N84-22770
Current trends in atomic spectroscopy. Report on a workshop held in Tucson, Arizona, October 24-26, 1982
[AD-A139288] 14 p2222 N84-24333
Light-induced nonreciprocity: Directional optical bistability; spectroscopy of induced anisotropy; nonlinear Sagnac effect
14 p2241 N84-24452
Visible pyrotechnic flare spectroscopy using vidicons
[AD-A140283] 16 p2474 N84-25857
Spectroscopy of the 3.3 and 3.4 micron dust emission features
16 p2570 N84-26496
Photothermal spectroscopy of weakly absorbing samples using a thermal wave phase shifter
[AD-A142056] 19 p3104 N84-29721
Resonance ionization spectroscopy of argon, krypton and xenon using vacuum ultraviolet light
[DE84-011655] 20 p3150 N84-30006
Characterization of the microstructures of various materials
[AD-A141946] 20 p3152 N84-30017
USSR report: Physics and mathematics
[JPRS-UPM-84-001] 20 p3285 N84-30662
Multiphoton ionization spectroscopy and photochemistry of transient species
[DE84-010424] 20 p3295 N84-30922
Analysis of moisture in solids: A review of the last decade or from Pande to the present
[DE84-011166] 21 p3362 N84-31326
USSR report: Physics and mathematics
[JPRS-UPM-84-003] 21 p3477 N84-32043
Source of optical pumping for high-resolution spectroscopy with semiconductor laser
21 p3482 N84-32070
USSR report: Physics and mathematics
[JPRS-UPM-84-005] 21 p3484 N84-32081
Large Deployable Reflector Science and Technology Workshop. Volume 3: Systems and technology assessment. Conclusions
21 p3523 N84-32321
Coupling of Rayleigh-like waves with zero sound modes in normal He-3
[DE84-010519] 22 p3653 N84-33153
Gamma-ray spectroscopy of hypernuclei
[DE84-013142] 22 p3654 N84-33162
Relation of vertical intensity profiles for neutral atom lines to analyte atomization behavior in inductively coupled plasmas
[DE84-014126] 22 p3659 N84-33194
Optical spectroscopy of disordered materials and X-ray scattering from surfaces
22 p3682 N84-33345
Photon correlation spectroscopy and applications
22 p3683 N84-33352
Spectroscopic research at high pressure and variable temperature
[AD-A143759] 23 p3713 N84-33537
Method and apparatus for enhancing microchannel plate data
[DE84-014498] 24 p3899 N84-34690
Pulsed photothermal radiometry for noncontact spectroscopy, material testing and inspection measurement
[AD-A144640] 24 p3964 N84-35101

SPECTRUM ANALYSIS

NT FLAME SPECTROSCOPY
NT MAXIMUM ENTROPY METHOD

Spectral methods for time dependent partial differential equations
[NASA-CR-172241] 01 p0128 N84-10837
Spectral behavior of four soils from the state of Sao Paulo at the orbital, field, and laboratory levels
[INPE-2878-TDL/144] 02 p0239 N84-11566
Research and development for investigations of metallic adsorptions on metal surfaces by optical techniques complemented by dc resistivity and auger spectroscopy
[AD-A131739] 03 p0361 N84-12351
Maximum likelihood estimation of linear dynamic system parameters
[AR-002-934] 03 p0425 N84-12780
Spectral analysis of magnetohydrodynamic fluctuations near interplanetary schocks
[NASA-TM-85119] 03 p0462 N84-13044
Algorithms for single-signal and multisignal minimum-cross-entropy spectrum analysis
[AD-A132400] 04 p0520 N84-13420
Adaptive spectral smoothing
[AD-A132574] 04 p0586 N84-13887
Multisignal Minimum-Cross-Entropy spectrum analysis weighted priors
[AD-A132358] 04 p0589 N84-13896
The electron and ion spectra of radar returns from the critical height during ionospheric heating experiments
05 p0636 N84-14185
An evaluation of the broadband direction finding capabilities of array signal processing techniques
05 p0665 N84-14368
An evaluation of automated control of the oxyfuel cutting process for M1 vehicle fabrication
[AD-A134073] 05 p0686 N84-14520
Ultrasonic inspection for roadwheel bondline quality
[AD-A132806] 05 p0690 N84-14531
Application of the maximum entropy method to the spectral analysis of geophysics data. Results of some preliminary tests on theoretical series
[IFSI-82-1] 05 p0705 N84-14826
SPECAN (Spectral Analysis): A program in ACSL for stochastic time series analysis
[AD-A133719] 05 p0726 N84-14777
Increased confidence in spectrum matching by use of a retention time library — compound identification in industrial effluents
[PB83-232090] 06 p0802 N84-15229
ECM (Electronic Counter Measure) signal discrimination and identification techniques
[AD-A133427] 06 p0824 N84-15372
Comparison of steady state transitions in truncated spectral and finite difference models of two-dimensional shallow convection
06 p0832 N84-15417
Site-dependent inelastic response spectra
06 p0862 N84-15620
Clear atmospheric effects on insolation illustrated by broad-band radiometer measurements
06 p0876 N84-15701
Stationary stochastic processes — spectrum analysis
[ESA-TT-812] 06 p0905 N84-15875
A radar signal processor implemented with surface acoustic waves devices
06 p0907 N84-15889
Optical properties of natural minerals and other materials in the 350-50000 cM-1 spectral region
[AD-A133530] 06 p0918 N84-15965
Maximum entropy spectral analysis of total zone
[INPE-2979-PRE/441] 07 p1032 N84-16694
Study plasma interactions in the auroral ionosphere
[NASA-CR-175352] 07 p1032 N84-16698
Stratospheric determination of effective photodissociation cross sections for molecular oxygen 191-204 nm
[AD-A134168] 07 p1034 N84-16706
Least squares methods of analyzing spectroscopic data
[NASA-CR-175335] 07 p1061 N84-16877
The infrared spectral analysis of CF/sub 2Cl/sub 2
[NASA-CR-173198] 07 p1075 N84-16985
Spectral methods for the Euler equations: Chebyshev methods and shock-fitting
[NASA-CR-172295] 08 p1095 N84-17118

Phase transformation study of Cu2S
[AD-A135587] 09 p1279 N84-18352
Collision widths of CO lines broadened by water vapor at elevated temperatures
[AD-A136121] 09 p1323 N84-18644
Analysis of sound produced by wind turbines in turbulent flow
[FFA-TN-1983-44] 09 p1387 N84-19057
High resolution spectrum analysis by dominant mode enhancement 09 p1401 N84-19153
The fluctuation spectrum of molecular clouds — interstellar matter 09 p1408 N84-19201
Some remarks on second order stationary process (or weak stationarity) 09 p1412 N84-19239
The Shock and Vibration Bulletin. Part 1: Welcome, keynote address, invited papers, pyrotechnic shock, and shock testing and analysis
[AD-A134452] 10 p1507 N84-19866
Shock spectral analysis by personal computer, using the IFT algorithm 10 p1509 N84-19875
Efficient algorithms for calculating shock spectra on general purpose computers 10 p1509 N84-19878
Evaluation and control of conservatism in drop table shock tests 10 p1509 N84-19879
Spectral methods in time for hyperbolic equations
[NASA-CR-172302] 10 p1568 N84-20274
Higher order crossings
[AD-A137086] 10 p1571 N84-20296
Formulation of blade-flutter spectral analyses in stationary reference frame
[NASA-TP-2296] 11 p1614 N84-20582
Spectral analyses of high-frequency Pn, Sn phases from very shallow focus earthquakes
[AD-A137778] 11 p1681 N84-20973
Spectroscopy and kinetics of lead oxide chemiluminescence
[AD-A138250] 12 p1792 N84-21687
Impedance relaxation spectrum analysis of oxidized silver electrodes
[AD-A138380] 12 p1793 N84-21693
Voice preprocessing system incorporating a real-time spectrum analyzer with programmable switched-capacitor filters
[AD-A137999] 12 p1805 N84-21769
Temporal measurement of spectrally resolved output of multiline HF lasers
[AD-A137983] 12 p1819 N84-21859
Detection of hidden mineral deposits by airborne spectral analysis of forest canopies — Spirit Lake, Washington; Cathcart Mountain, Maine; Blacktail Mountain, Montana; and Cotter Basin, Montana
[E84-10110] 12 p1830 N84-21928
Discrete random media techniques for microwave modeling of vegetated terrain 12 p1832 N84-21939
Bidirectional spectral reflectance of Earth resources: Influence of scene complexity and atmospheric effects on remote sensing 12 p1833 N84-21948
Development and preliminary tests of a new long-wave radiation parameterization 12 p1857 N84-22097
SETI science working group report
[NASA-TP-2244] 12 p1869 N84-22178
Broadband rotor noise analyses
[NASA-CR-3797] 12 p1899 N84-22365
Nonlinear optics with broad-band lasers
[DE84-005769] 12 p1906 N84-22432
Atomic data calculations for application to the diagnostics of Tokamak plasmas. FY 1982 report
[DE84-006132] 12 p1910 N84-22446
Measuring the temperature coefficients of the elastic constants of indium phosphide
[AD-A138454] 12 p1915 N84-22474
Laboratory infrared studies relevant to Io: A satellite to the planet Jupiter
[NASA-CR-173376] 12 p1922 N84-22522
The plumes of IO: A detection of solid sulfur dioxide particles
[NASA-CR-175414] 12 p1922 N84-22523
Kerma factors for use in 37-group neutron spectrum calculations
[AD-A139033] 13 p2041 N84-23240
Shock waves and mass outflow in the Orion molecular cloud: Observations of far-infrared emission lines of carbon monoxide, hydroxyl and ammonia
13 p2071 N84-23423
MM-wavelength measurements of CO in the atmosphere of Mars and SO2 in the atmosphere of Venus
13 p2072 N84-23429
Recent comet impacts on the moon: The evidence from spectral reflectance studies 13 p2076 N84-23453
Venus: Global distribution of Pioneer-Venus radar roughness and reflectivity and global correlation of altimetry, roughness and reflectivity observations
13 p2077 N84-23461
A case for olivine on Mars 13 p2087 N84-23520
Aerodynamic forces on an airship hull in atmospheric turbulence
[UTIAS-277] 14 p2100 N84-23604
A new method for obtaining individual component spectra from those of complex mixtures
[AD-A139262] 14 p2122 N84-23719
Application of a spray deposition method for reversed phase liquid chromatography-mass spectrometry
[PB84-159029] 14 p2124 N84-23730
Optically induced changes in the Faraday rotation spectra of the ferromagnetic semiconductor CdCr/sub 2/Se/sub 4 14 p2233 N84-24398
Patterns of energy levels and spectra for polyatomic molecules
[DE84-007501] 15 p2405 N84-25436
Mean depths of line formation
15 p2421 N84-25541
Line formation in turbulent media
15 p2421 N84-25542
Problems in the spectroscopy of cool carbon stars
15 p2422 N84-25549
Synthetic spectra of red giants
15 p2422 N84-25550
Spectral analysis of Beta Pegasi
15 p2422 N84-25551
Model stellar atmosphere and spectrum computations with minicomputer 15 p2423 N84-25555
Computer programs for processing of spectra
15 p2423 N84-25556
Stratigraphy of the crater Copernicus
15 p2426 N84-25571
Preliminary results of albedo correlation between Europa and Ganymede 15 p2427 N84-25581
Observations of He+ ions in the solar wind
[KGI-PREPRINT-064] 15 p2428 N84-25585
Possibilities of infrared spectroscopy with tunable semiconductro lasers
[ONERA-NT-1983-4] 16 p2462 N84-25782
Morning twilight observations of the zodiacal light and terrestrial airglow 16 p2526 N84-26222
Automatic, self-nulling, spectral scanning ellipsometer: Software for the LSI-11 data acquisition system
[LBL-15525] 16 p2543 N84-26320
A vector space approach to time-variant energy spectral analysis
[AD-A140196] 16 p2553 N84-26378
The near infrared polarization of NGC 7023
16 p2572 N84-26508
Far-IR selected star formation regions
[NASA-TM-85955] 16 p2574 N84-26521
Radar investigation of asteroids
[NASA-CR-173603] 16 p2576 N84-26530
A high dispersion spectral analysis of three pre-main sequence stars 16 p2576 N84-26532
Method of analysis of combination oscillations of arbitrary nonlinear system for spectrum conversion
17 p2634 N84-26849
Modification of the Propagation Measurement File (PMF)
[PB84-169796] 17 p2655 N84-26980
Fatigue considerations in view of measured load spectra
[AD-A140221] 17 p2679 N84-27067
Radar observations of inertial period waves in the lower stratosphere over Arecibo 17 p2683 N84-27081
Spectral characteristics of the MST radar returns
17 p2685 N84-27094
Spectral characteristics of the return
17 p2685 N84-27095
Techniques for measurements of horizontal and vertical velocities 17 p2686 N84-27104
Measurement of the horizontal velocity of wind perturbations in the middle atmosphere by spaced MF radar systems 17 p2688 N84-27121
Cross-spectral analysis of atmospheric pressure microfluctuations and low-frequency sea level changes
17 p2699 N84-27196
Possibilities of studying inelastic properties and characteristics of medium inhomogeneity using spectra of scattered waves 17 p2706 N84-27230
Solar Irradiance Variations on Active Region Time Scales
[NASA-CP-2310] 17 p2778 N84-27635
Limb darkening variations 17 p2779 N84-27645
Spectral dependence of magnetoresistivity in heterophase photoconductors based on CdSe
18 p2825 N84-27935
Spectral averaging and low-frequency sampling modifications for the IQS 401 FFT (Fast Fourier Transform) spectrum analyzer
[AD-A141181] 18 p2834 N84-27990
Spectral approach to interpretation of electromagnetic anomalies in case of E-polarization
18 p2859 N84-28158
Identification of aerosol composition from multi-wavelength lidar measurements
[NASA-CR-173445] 18 p2877 N84-28266
Determination of elemental intensities from direct Auger spectra by pre-filtered least squares fitting
[AERE-R-11226] 18 p2927 N84-28561
A spectral collocation method for the Navier-Stokes equations
[NASA-CR-172365] 19 p3021 N84-29159
Spectrum analyzer and analysis method for measuring power and wavelength of electromagnetic radiation
[AD-D011044] 19 p3027 N84-29196
Spectral methods for exterior elliptic problems
[NASA-CR-172380] 19 p3062 N84-29560
The optical spectra of aerosols
[AD-A141571] 19 p3104 N84-29719
Trace analysis in quartz
[AD-A142425] 20 p3148 N84-29966
Investigation of the structure of photosynthetic reaction centers
[DE84-012475] 20 p3150 N84-30005
LANDSAT-4 MSS and TM spectral class comparison and coherent noise analysis — The Des Moines, Iowa area 20 p3206 N84-30361
Interpreting spectra of sea surface aerial photographs
20 p3225 N84-30494
Introduction to Thematic Mapper investigations. Section 1: Radiometry. Section 2: Geometry
[E84-10185] 21 p3429 N84-31756
Random signal recognition based on spectral moments 22 p3568 N84-32597
Design spectrum analysis in NASTRAN
22 p3609 N84-32870
Rapid microbial identification by circular intensity differential scattering
[DE84-013894] 22 p3629 N84-32993
Possible cosmological origin of the ultra high energy cosmic rays
[DE84-013063] 22 p3681 N84-33334
Overview: Techniques for the analysis of spectral and orbital congestion in space systems
[AD-A143973] 23 p3697 N84-33426
A search for 183-GHz emission from water in late-type stars
[NASA-TM-85987] 23 p3838 N84-34348
Non-imaging remote sensing data
23 p3842 N84-34371
Spectral analysis of (very) hot stars: Methods and results 24 p3971 N84-35140
Spectral analysis of helium poor hot subdwarfs
24 p3976 N84-35181
Hot central stars in planetary nebulae
24 p3977 N84-35193
Standard stars: Automatic line identification of IUE high resolution spectra 24 p3981 N84-35225

SPECULAR REFLECTION
Development of a portable specular reflectometer for monitoring solar-mirror materials
[DE83-016065] 03 p0442 N84-12901
Characterization of scattering media using non-Gaussian speckle patterns
[AD-A136465] 09 p1388 N84-19065
Calculation of two-dimensional focusing factor distribution due to specular flux transfer between general curves 10 p1448 N84-19459
Electrochemistry of anilines. 2: Oxidation to dications, electrochemical and UV/VIS spectroelectrochemical investigation
[AD-A138949] 10 p1454 N84-19498
A minimum range criterion for RCS (Radar Cross-Section) measurements of a target dominated by point scatterers
[AD-A138230] 12 p1807 N84-21780

SPEECH
NT ARTICULATION
NT CONVERSATION
NT PHONEMES
NT PHONETICS
NT WORDS (LANGUAGE)
Computerized audio processor
[AD-A130390] 01 p0063 N84-10411
Stress assessment through voice analysis
[AD-A132577] 04 p0573 N84-13773
Jam-resistant speech encoding
[AD-A134707] 08 p1145 N84-17448
Real-time implementation of a speech digitization algorithm combining time-domain harmonic scaling and adaptive residual coding, volume 1
[AD-A135232] 08 p1150 N84-17485
Real-time implementation of a speech digitization algorithm combining time-domain harmonic scaling and adaptive residual coding, volume 2
[AD-A135233] 08 p1150 N84-17486

Status and progress of studies on the nature of speech, instrumentation for its investigation and practical applications
[AD-A136416] 09 p1298 N84-18488
Interactive voice technology: Variations in the vocal utterances of speakers performing a stress-inducing task
[AD-A135932] 09 p1302 N84-18514
Speech recognition: Acoustic phonetic and lexical knowledge representation
[AD-A137697] 11 p1643 N84-20742
CLARIFY: An on-line guide for revising technical prose
[N-2037-RC] 15 p2417 N84-25509
Multisensor speech input
[AD-A140894] 17 p2654 N84-26974
Voice communication and positive pressure breathing in noise
[AD-A141303] 18 p2830 N84-27965
Sensitivity based segmentation and identification in automatic speech recognition
[AD-A142255] 19 p3008 N84-29068
Results of investigation of adaptive speech codes 21 p3376 N84-31428
The Lincoln Laboratory-Aerospace Medical Research Laboratory digital speech test facility
[AD-A144303] 24 p3894 N84-34862

SPEECH DISCRIMINATION
U SPEECH RECOGNITION

SPEECH RECOGNITION
Language processing for speech understanding
[AD-A131261] 01 p0065 N84-10423
Limited connected speech experiment
[AD-A131048] 01 p0066 N84-10433
Clustering of the least squares lattice PARCOR (partial correlation) coefficients: A pattern-recognition approach to steady state synthetic vowell identification
[AD-A131503] 01 p0134 N84-10876
Cockpit voice recognition program at Princeton University 02 p0169 N84-11109
Objectivization of evaluation of speech intelligibility during flights 02 p0261 N84-11713
Determination of a subjects condition according to pitch of the vocal vowel 'A' 02 p0261 N84-11714
Proposed study to determine potential flight applications and human factors design guidelines of voice recognition/synthesis systems 03 p0314 N84-12047
Increased aircraft survivability using direct voice input 06 p0778 N84-15100
Human factors issues associated with the use of speech technology in the cockpit
[NASA-CR-166548] 08 p1143 N84-17433
VLSI research
[AD-A134628] 08 p1151 N84-17491
Development of speech input/output interfaces for tactical aircraft
[AD-A136485] 09 p1255 N84-18193
Interactive voice technology: Variations in the vocal utterances of speakers performing a stress-inducing task
[AD-A135932] 09 p1302 N84-18514
A thousand-word speech-recognition system using special-purpose MOS-LSI 09 p1399 N84-19140
Research in continuous speech recognition
[AD-A136990] 10 p1482 N84-19682
Speaker recognition: Example of execution of a phonic test
[FUB-55-1982] 10 p1483 N84-19690
Fast algorithms for improved speech coding and recognition
[AD-A137569] 11 p1643 N84-20740
Speech recognition: Acoustic phonetic and lexical knowledge representation
[AD-A137697] 11 p1643 N84-20742
A recursive linear predictive vocoder
[AD-A138006] 12 p1805 N84-21770
Limited continuous speech recognition by phoneme analysis
[AD-A138021] 12 p1805 N84-21771
Preliminary analysis of automatic speech recognition and synthesis technology
[AD-A138976] 13 p1963 N84-22877
Real time speech recognition on a distributed digital processing array
[AD-A139097] 14 p2139 N84-23826
Vocoder analysis based on properties of the human auditory system
[AD-A138660] 14 p2141 N84-23837
Synthetic voice: Power system enunciation speech synthesis system
[PB84-151646] 14 p2141 N84-23838
RSRE speech data base recordings (1983). Part 1: Specification of vocabulary and recording procedure
[AD-A139361] 15 p2318 N84-24916
Emulation of a voice interactive Doppler navigation set
[AD-A140204] 16 p2446 N84-25687
Error margins by segmentation of speech signals with autocorrelation procedures for linear prediction coding systems
[FI-13-TBR-17] 16 p2481 N84-25911
Algorithms of adaptive Markov filtration of noisy speech signals 17 p2630 N84-26822
Narrowband (LPC-10) vocoder performance under combined effects of random bit errors and jet aircraft cabin noise
[AD-A141333] 18 p2830 N84-27967
Frequency selected and amplitude limited personal noise protectors
[BMFT-FB-HA-84-016] 18 p2915 N84-28488
Sensitivity based segmentation and identification in automatic speech recognition
[AD-A142255] 19 p3008 N84-29068
Speech communications in noise 19 p3069 N84-29469
Noise-induced hearing impairment and handicap 19 p3069 N84-29473
Effects of emotional and perceptual-motor stress on a voice recognition system's accuracy: An applied investigation
[AD-A142554] 20 p3175 N84-30160
Voice Interactive Systems Technology (VIST) research
[AD-A142698] 20 p3267 N84-30726
The discrimination of pitch in pulse trains and speech
[AD-A142996] 21 p3492 N84-32127
Speech communication 22 p3684 N84-33358
Linguistics 22 p3684 N84-33359
Communications biophysics 22 p3684 N84-33362
Isolated-word speech recognition using multi-section vector quantization code books
[AD-A144433] 24 p3895 N84-34865
East Europe report: Science and technology
[JPRS-ESA-84-033] 24 p3943 N84-34960
New computer developments described 24 p3943 N84-34962

SPEED
U VELOCITY

SPEED CONTROL
Optimal electric drive control to suppress jerking
[BLL-M-35391-(5828.4)] 08 p1165 N84-17589
Functional integration of vertical flight path and speed control using energy principles 11 p1618 N84-20588
System for torque control of unbalanced rotor during passage through resonance 13 p1973 N84-22602
Design and test of a low-temperature liner driver/rate controller 15 p2347 N84-25083

SPEED INDICATORS
NT ANEMOMETERS
NT HOT-FILM ANEMOMETERS
NT HOT-WIRE ANEMOMETERS
NT LASER ANEMOMETERS
NT TACHOMETERS

SPEED REGULATION
U SPEED CONTROL

SPEED REGULATORS
Constant speed drive with compensation using differential gears
[AD-D011156] 23 p3756 N84-33812

SPENT FUELS
Monitored retrievable storage program. Status and plans for meeting NWPA requirements
[DE84-008660] 18 p2931 N84-28585

SPERMATOCYTES
U GAMETOCYTES

SPERMATOZOA
Use of sperm enzymes to detect genotoxic agents
[AD-A142724] 20 p3260 N84-30691

SPHERES
NT CONCENTRIC SPHERES
NT FALLING SPHERES
NT POINCARE SPHERES
NT ROTATING SPHERES
Numerical simulation of the velocity records from the SRI grout spheres experiment
[AD-A131267] 01 p0096 N84-10627
Viscous effect on acoustic scattering by elastic solid cylinders and spheres
[DE83-014271] 01 p0140 N84-10920
Determining attitude of object from needle map using extended Gaussian image
[AD-A131617] 02 p0240 N84-11571
Approximate solution of the problem of thermoelasticity of a sphere with variable properties
[BLL-M-35369-(5828.4F)] 04 p0547 N84-13606
Interaction of a stream of dielectric spheres in an electric field in a high vacuum
[DE83-013695] 04 p0600 N84-13958
Self-consistent spherical accretion and models of quasars 04 p0620 N84-14068
Focused acoustical and optical backscattering from spheres and properties of optoacoustic sources
[AD-A133744] 05 p0747 N84-14904
Optical multiple sample vacuum integrating sphere
[NASA-CASE-GSC-12849-1] 06 p0917 N84-15980
Contactless pellet fabrication
[NASA-CASE-NPO-15592-1] 07 p1069 N84-16940
Transient current density waveforms on a perfectly conducting sphere
[AD-A135662] 09 p1300 N84-18500
Hydrodynamic interactions between particles in low-Reynolds-number flow: A modular approach
[AD-A139299] 14 p2146 N84-23859
Spherical lapping velocities
[DE84-005734] 15 p2344 N84-25070
Inner-sphere reorganization in optical electron transfer
[AD-A139722] 15 p2405 N84-25435
Effective viscosity of a periodic suspension
[AD-A140483] 16 p2493 N84-25995
Cross section for absorption of partly shielded dielectric sphere 17 p2635 N84-26858
Solution of direct problem in gravimetry on spherical Earth 17 p2700 N84-27202
G-38, 39 and 40: An artist's exploration of space — using the space environment to create orbiting sphere configurations 18 p2801 N84-27774
Analytical model of strength loss in filament wound spherical vessels
[DE84-010213] 19 p2986 N84-28923
Morse theory for symmetric functionals on the sphere and an application to a bifurcation problem
[AD-A141709] 19 p3087 N84-29586
User's guide to Sphere and Plate Interactive Display Routine (SPIDR)
[DE84-012655] 21 p3486 N84-31976
Optimizing tools for generating spherical surfaces and polishing powders in optical production technology
[BMFT-FB-T-84-094] 21 p3499 N84-32178
The concentric spherical cavity TE and TM (Transverse Electromagnetic and Transverse Magnetic) eigenvalues
[AD-A143965] 23 p3732 N84-33652
Tests for sphericity under correlated multivariate regression equations model
[AD-A144658] 24 p3952 N84-35024

SPHERICAL ANTENNAS
An analytical study of cylindrical- and spherical-rectangular microstrip antennas 08 p1142 N84-17428
The Technical University of Denmark (TUD)-ESA spherical near field antenna test facility, Lyngby, Denmark
[ESA-BR-19] 20 p3132 N84-29890

SPHERICAL CAPS
EPA (Environmental Protection Agency) evaluation of the Gyroscopic Wheel Cover device under section 511 of the Motor Vehicle Information and Cost Savings Act
[PB84-143577] 12 p1921 N84-22514

SPHERICAL COORDINATES
Solution of Poisson equations for 3-dimensional grid generations — computations of a flow field over a thin delta wing
[NASA-TM-85857] 04 p0588 N84-13886
Three-dimensional implicit lambda methods
[NASA-CR-172264] 05 p0627 N84-14123
Three-dimensional, time-dependent, compressible, turbulent, integral boundary-layer equations in general curvilinear coordinates and their numerical solution
[AD-A133289] 06 p0844 N84-15504
Central burst of simultaneously rotating and gravitating body 13 p1969 N84-22783
Acta mechanica sinica (Selected articles)
[AD-A142128] 19 p3024 N84-29180
Three-dimensional, time-dependent, compressible, turbulent, integral boundary layer equations in general curvilinear coordinates and their numerical solutions 22 p3529 N84-32348
A fully vectorized numerical solution of the incompressible Navier-Stokes equations 23 p3688 N84-33375
BGRID: A block-structured grid generation code for wing sections
[NASA-CR-166317] 23 p3814 N84-34187

SPHERICAL HARMONICS
The effect of coordinate system rotation on spherical harmonic expansions: A numerical method
[AD-A131974] 03 p0425 N84-12785
Magnetic anomalies in east Pacific using MAGSAT data
[E84-10060] 06 p0864 N84-15830
The effect of vertical datum inconsistencies on the determination of gravity related quantities
[AD-A137681] 11 p1682 N84-20978
Lageos orbit and the albedo problem 20 p3221 N84-30484

SPHERICAL SHELLS
NT SPHERICAL CAPS
The AGCE related studies of baroclinic flows in spherical geometry
[NASA-CR-170934] 03 p0371 N84-12415

An analysis of the buckling of truncated or complete spherical shells under axial compressive loads
07 p0965 N84-16379
Estimation of local stress intensity in flanged thin-wall shell structures under heavy thermal load
13 p1972 N84-22799
Stressed-strained state of flanged shells under heavy thermal load beyond elastic limit
13 p1972 N84-22800
Automatic elimination of static unbalance of rotor in anisotropic bearings 13 p1973 N84-22803
Solutions of the Navier-Stokes equations for stationary flow in a spherical gap
[PREPRINT-611] 13 p1991 N84-22925
Coated silica shells: An advanced hydrogen storage system
[DE84-006696] 20 p3163 N84-30066
Heating and implosion of spherical targets irradiated by laser 20 p3268 N84-30879
Study of specifics of formation of stress and strain in making circular welded joints in aluminum alloy envelopes 24 p3876 N84-34560

SPHERICAL WAVES
Random-choice solutions for weak spherical shock-wave transitions of n-waves in air with vibrational excitation
[UTIAS-253] 01 p0077 N84-10502
The relation between power and energy in the shock initiation of detonations. 1: Basic theoretical considerations and the effects of geometry
[AD-A133466] 06 p0844 N84-15505
An experimental and numerical study of weak spherical N-waves produced by exploding wires
[UTIAS-TECH-NOTE-248] 11 p1651 N84-20779
Realization of high-frequency filters according to theory of guided spherical waves 21 p3378 N84-31438

SPHEROIDS
NT OBLATE SPHEROIDS
NT PROLATE SPHEROIDS
The behavior of cold gas in spheroidal galactic potentials 02 p0306 N84-12010
Analysis of airborne antenna pattern and mutual coupling and their effects on adaptive array performance
05 p0672 N84-14416
Quenched magnetite in cretaceous-tertiary boundary microtektite-like spheroid 11 p1755 N84-21459
Influence of microplastic deformations on spheroidization of cementite in steel
[BLL-M-35503-(5828.4)] 12 p1795 N84-21711
Stresses in and around double confocal spheroids embedded in infinite media 15 p2314 N84-24883

SPHEROMAKS
Magnetohydrodynamic equilibrium and stability of spheromak plasma in flux conserver
[IPPJ-642] 03 p0443 N84-12909
Recent results in the Los Alamos compact torus program
[DE83-014147] 03 p0446 N84-12930
Reconnections in Spheromak formation and sustainment
[DE84-004157] 10 p1586 N84-20396
Transport, stability and relaxation of a Spheromak
[DE84-007285] 15 p2412 N84-25479
MHD stability of the spheromak
17 p2766 N84-27563
Equilibrium and stability of the Los Alamos spheromak
[DE84-010064] 20 p3303 N84-30975
Space resolved absolutely calibrated VUV spectroscopic measurements on CTX
[DE84-007490] 20 p3304 N84-30984
Mixed mode operation in CTX
[DE84-007493] 20 p3304 N84-30985
Ohmic heating to 100-eV and helicity injection in CTX
[DE84-007494] 20 p3304 N84-30986
Confinement time and energy balance in the CTX spheromak
[DE84-007492] 20 p3304 N84-30987
Analysis of surface currents on the CTX mesh flux conserver
[DE84-007491] 20 p3305 N84-30989

SPIKE ANTENNAS
U MONOPOLE ANTENNAS

SPILLING
Feasibility tests of pipeline pigs for cryogenic pipelines
[DE83-015494] 02 p0206 N84-11343
Design of a remotely controlled hovercraft vehicle for spill reconnaissance
[PB84-124064] 08 p1105 N84-17187
Fuel-resistant coating and binders for porous friction surface pavements: Tests and analyses
[AD-A139665] 15 p2317 N84-24907
Revision and experimental verification of the hazard assessment computer system models for spreading, movement, dissolution, and dissipation of insoluble chemicals spilled onto water, volume 1
[AD-A140635] 17 p2724 N84-27337
The evaporation and gaseous dispersion of large-scale releases of nitrogen tetroxide
[AD-A142079] 20 p3166 N84-30104

SPIN
NT ELECTRON CAPTURE
NT ELECTRON SPIN
NT METAL SPINNING
NT NUCLEAR SPIN
NT PARTICLE SPIN
NT SPIN-ORBIT INTERACTIONS
Compact toroids with rotating halo-the spintor
[IPPJ-658] 11 p1734 N84-21306
Spin analysis of concentrated traction contacts
[NASA-TM-83713] 17 p2675 N84-27042

SPIN DYNAMICS
Oscillations of a liquid in a rotating cylinder. Part 2: Spin-up
[AD-A129094] 01 p0077 N84-10505
Harmonic generation in paramagnetic spin systems
[AD-A130695] 01 p0153 N84-11004
Latest on polarization in electron storage rings
[DE83-012764] 02 p0290 N84-11902
Theory of hyperfine anomalies in muonic atoms
[DE83-015392] 03 p0438 N84-12872
Theoretical studies of oxygen-iodine laser mechanisms and new laser concepts
[AD-A132374] 04 p0540 N84-13550
Spinning mode acoustic radiation from the flight inlet
[NASA-CR-172273] 06 p0908 N84-15896
An NMR study of solid hydrogen using packer solid echoes and rotating reference frame relaxation
06 p0922 N84-15992
Extensions of the theory of the electron-phonon interaction in metals: A collection
[AD-A134140] 07 p1079 N84-17018
Homogeneity and magnetic susceptibility in some substituted cadmium spinels
[AD-A135297] 08 p1131 N84-17357
Numerical investigation of the aerodynamics and stability of a flared afterbody for axisymmetric projectiles at supersonic speeds
[AD-A136826] 10 p1420 N84-19289
Rates and mechanisms of energy dissipation and the structure of molecular solids
[AD-A137714] 11 p1730 N84-21283
Inelastic strong interactions at high energies
[DE84-005666] 11 p1745 N84-21388
Generation of vehicle wobbling by the unsteady flow field in a spinning solid propellant rocket motor
13 p1945 N84-22648
A relationship between liquid roll moment and liquid side moment
[AD-A140658] 17 p2668 N84-27011
Nonlinear attitude stability of a dual-spin spacecraft containing spherical dampers
[AD-A141307] 18 p2807 N84-27821
An explanation of spin-up instabilities for a 155mm binary projectile
[AD-A141534] 19 p3023 N84-29173
Note on the displacement effect in a spinning fluid
[AD-A141599] 19 p3024 N84-29175
Introduction to neutron scattering by magnetic excitations
[DE84-008579] 20 p3293 N84-30904
Nuclear and particle physics aspects of hyperon and antinucleon interactions
[DE84-010793] 20 p3293 N84-30905
Hypernuclear research at the AGS
[DE84-010282] 20 p3294 N84-30915
High-spin gamma-ray spectroscopy
[DE84-010716] 20 p3296 N84-30929
A study of a two-frequency NMR maser
21 p3408 N84-31615
The nonlinear dynamics of spinning paraboloidal antennas 21 p3476 N84-32033
Contribution of pressure to the moment during spin-up on a nutating liquid-filled cylinder: Ad hoc model
[AD-A143678] 23 p3747 N84-33752
The flight test of an automatic spin prevention system
24 p3847 N84-34398

SPIN FORGING
U METAL SPINNING

SPIN GLASS
Relaxation in spin glasses: Similarities and differences from ordinary glasses
[DE84-001719] 04 p0508 N84-13330
Magnetic impurities in superconductors
[DE84-007871] 14 p2243 N84-24467
Spin correlations near the ferromagnetic to spin glass crossover
[DE84-007385] 15 p2299 N84-24799

SPIN REDUCTION
A feasibility study of electromagnetic DE-spin system for Earth orbiting satellites 06 p0930 N84-16040
Maintenance and operational enhancement of the flexible spacecraft dynamics program
[NASA-CR-175211] 10 p1439 N84-19394
The flight test of an automatic spin prevention system
24 p3847 N84-34398

SPIN RESONANCE
Contribution of pressure to the moment during spin-up on a nutating liquid-filled cylinder: Ad hoc model
[AD-A143678] 23 p3747 N84-33752

SPIN STABILIZATION
Instabilities of a gyroscope produced by rapidly rotating, highly viscous liquids
[AD-A130874] 01 p0084 N84-10547
Gas-particle mixture flows in a spinning solid rocket motor
[ISAS-607] 07 p0965 N84-16252
Suitability of viscoelastic materials for nutation damping of spin-stabilized satellites
[ILR-55] 09 p1272 N84-18307
Numerical investigation of the aerodynamics and stability of a flared afterbody for axisymmetric projectiles at supersonic speeds
[AD-A136826] 10 p1420 N84-19289
Changing gain versus area of stability for a scalar, modal controller
[AD-A136804] 10 p1436 N84-19385
Generation of vehicle wobbling by the unsteady flow field in a spinning solid propellant rocket motor
13 p1945 N84-22648
An approach to attitude control maneuvers which helps maintain orbit inclination 15 p2268 N84-24618
A three-degree-of-freedom flight simulator for spin-stabilized projectiles
[AD-A140657] 17 p2610 N84-26709
Penn State Get Away Special
18 p2799 N84-27759
Low thrust bipropellant engine development
20 p3136 N84-29912

SPIN TESTS
Lewis Research Center spin rig and its use in vibration analysis of rotating systems
[NASA-TP-2304] 15 p2260 N84-24578
The flight test of an automatic spin prevention system
24 p3847 N84-34398

SPIN WAVES
U MAGNONS

SPIN-LATTICE RELAXATION
Muon spin relaxation in ferromagnetic PdMn
[DE83-012659] 03 p0453 N84-12979

SPIN-ORBIT INTERACTIONS
NT ELECTRON CAPTURE
Electronic-relaxation processes in polyatomic molecules
[DE83-008738] 01 p0144 N84-10945
Host-lattice effects in the spin-orbit fine structure of vacancy-trapped electrons
[DE84-000599] 04 p0614 N84-14052
Thermally induced spin rate ripple on spacecraft with long radial appendages
[NASA-TM-85058] 07 p0964 N84-16249

SPINACH
Kinetic and spectroscopic studies of cytochrome b-563 in isolated cytochrome b/f complex and in thylakoid membranes
[DE83-017982] 04 p0571 N84-13760

SPINAL CORD
NT SPINE
Time-dependent spinal cord changes following nonionizing microwave irradiation
20 p3258 N84-30678
Information processing for use in the treatment of severely physically handicapped persons
20 p3264 N84-30711

SPINDLES
Distribution of unit pressures in universal spindle joint
08 p1165 N84-17588

SPINE
Simulated crash decelerations in a light aircraft cabin
[AD-A142806] 21 p3326 N84-31102

SPINEL
Optically induced changes in the Faraday rotation spectra of the ferromagnetic semiconductor CdCr/sub 2/Se/sub 4 14 p2233 N84-24396
Polycrystalline MgAl2O4 spinel for high performance windows
[AD-P003202] 17 p2592 N84-26615

SPINNING (METALLURGY)
U METAL SPINNING

SPIRAL ANTENNAS
Advances in spiral antenna technology
[AD-P003411] 19 p3015 N84-29115

SPIRAL GALAXIES
NT BARRED GALAXIES
NT MILKY WAY GALAXY
Low-ionization emission regions in the nuclei of spiral galaxies 08 p0939 N84-16100

Formation of dust lanes in spiral galaxies by radiation pressure
08 p1244 N84-18130
Limits on diffuse X-ray emission from M101
[NASA-CR-170978] 08 p1246 N84-18147
Molecular clouds and galactic spiral structure
[NASA-TP-2288] 10 p1595 N84-20457
Molecular clouds and galactic spiral structure
10 p1596 N84-20459
Ultraviolet observations of normal galaxies
24 p3970 N84-35136
Ultraviolet study of the stellar population of the giant extragalactic HII region NGC 604
24 p3971 N84-35145

SPLASHING
Splash and spray from road vehicles and associated topics: A bibliography
[CAR-8425] 21 p3398 N84-31557

SPLICING
Field expedient repair of fiber optic cables
[AD-A134276] 07 p0965 N84-16382
On the relation between wire length distributions and placement of logic on master slice ICs
[AD-A137848] 11 p1647 N84-20768
Optimized bolted joint
[NASA-CASE-LAR-13250-1] 11 p1664 N84-20859
Termination of cylindrical grooved optical cables
11 p1720 N84-21220
Factory splicing of optical waveguide fiber
11 p1720 N84-21222
Manufacture cables with low losses
11 p1725 N84-21256
A field splicing system for single-mode optical fiber
11 p1726 N84-21257
Optical fiber termination and splicing techniques
[DE84-013919] 22 p3564 N84-32572
Low loss splicing method for single-mode optical fiber
[NASA-CASE-NPO-16294-1] 22 p3656 N84-33179

SPLINE FUNCTIONS
Transient electron transport in gases
[DE83-009188] 02 p0291 N84-11906
Aspects of second- and third-order panel methods demonstrated for the two-dimensional flat plate problem
[NLR-TR-81074-U] 03 p0373 N84-12433
Spline classification methods
03 p0393 N84-12564
Splines and the Galerkin method for solving the integral equations of scattering theory
[CSIR-TWISK-267] 04 p0586 N84-13873
Multivariate, minimum-curvature splines for randomly spaced data
[AD-A132319] 04 p0590 N84-13899
Splines and a three-body separable expansion for scattering problems
[CSIR-TWISK-291] 07 p1059 N84-16863
Estimation of posterior probabilities using multivariate smoothing splines and generalized cross-validation
[AD-A134518] 07 p1062 N84-16884
Spline-based estimation techniques for parameters in elliptic distributed systems
[NASA-TM-85439] 08 p1218 N84-17947
Use of the Bernstein form to derive sufficient conditions for shape preserving piecewise polynomial interpolation
[DE84-003914] 08 p1221 N84-17972
Two-dimensional flight-path reconstruction by means of spline approximation
[NLR-TR-82075-U] 12 p1769 N84-21541
A geometric modeler based on a dual-geometry representation polyhedra and rational b-splines
12 p1869 N84-22181
Use of shape-preserving interpolation methods in surface modeling
[DE83-012708] 12 p1895 N84-22343
A computer program for the evaluation of cubic splines
[BAE-BT-11729] 13 p2026 N84-23131
Bivariate quadratic splines on criss-cross triangulations
[AD-P002979] 14 p2202 N84-24215
On the optimal approximation rates for cries-cross finite element spaces
[PREPRINT-622] 15 p2397 N84-25378
Special methods for spline functions associated to uniform grids
[HMI-B-381] 15 p2399 N84-25399
A new 48 D.O.F. quadrilateral shell element with variable-order polynomial and rational B-spline geometries with rigid body modes
17 p2678 N84-27058
Parameterization and shape of B-spline curves for CAD — computer aided design (CAD)
19 p3060 N84-29541
Two-dimensional splines
[NASA-CR-173804] 19 p3062 N84-29561
A geometric proof of total positivity for spline interpolation
[AD-A141606] 19 p3085 N84-29583
Bayesian models for response surfaces. 1: The equivalence of several models and their relationship to smoothing splines
[AD-A142843] 21 p3472 N84-32003
On the controlled approximation order from certain spaces of smooth bivariate splines
[AD-A142868] 21 p3472 N84-32004
Convergence of bivariate cardinal interpolation
[AD-A142894] 21 p3472 N84-32006
Spline approximation for retarded systems and the Riccatti equation
[AD-A142963] 21 p3473 N84-32010
Parameter estimation for the Euler-Bernoulli-beam
[NASA-CR-172417] 22 p3645 N84-33107
Multivariate scattered data derivative generation by functional minimization
[AD-A144663] 24 p3952 N84-35028

SPLINES
Cervical spline analysis for ejection injury prediction
[AD-A131081] 01 p0114 N84-10739
PICTURE: An interactive tool for creating visual aids. Reference manual, version 2.0
[DE84-007447] 12 p1884 N84-22279

SPLIT FLAPS
Space Shuttle Orbiter rudder/speed brake actuation system
09 p1295 N84-18461

SPLITS (GEOLOGY)
U GEOLOGICAL FAULTS

SPLITTING
Failure of vincristine induce twinning
09 p1358 N84-18672
Twinning of amphibian embryos by centrifugation
09 p1358 N84-18673
La Recherche Aerospatiale, Bimonthly bulletin, number 1983-4, 215/July-August
[ESA-TT-823] 13 p1935 N84-22589
Photosynthetic water splitting, phase 1
[DE84-006847] 14 p2124 N84-23729
A comparitive study of ADI splitting methods for parabolic equations in two space dimensions
[MC-NW-158/83] 14 p2215 N84-24304
Flux-vector splitting and Runge-Kutta methods for the Euler equations
[NASA-CR-172415] 21 p3470 N84-31993

SPOILERS
Flight measurements of hinged-plate wing-spoiler hinge moments — dhc-6 Twin Otter series 100 aircraft
[NASA-TM-84343] 01 p0003 N84-10021
An-32 transportation aircraft, USSR
[AD-A131013] 01 p0008 N84-10050
Steady and unsteady flow models for airfoils with spoiler
03 p0327 N84-12136
An experimental study of airfoil-spoiler aerodynamics
06 p0784 N84-15133
Long term in-service evaluation of CFRP components (spoilers) on Airbus A300, phase 1
[BMFT-FB-W-83-028] 10 p1429 N84-19344
The effect of perforation on the aerodynamics of a spoiler
[BU-286] 15 p2255 N84-24545
Flight service evaluation of two aluminum-brazed titanium spoilers
[NASA-CR-172371] 21 p3364 N84-31343
Jet spoiler arrangement for wind turbine
[DE84-011303] 21 p3434 N84-31787

SPONTANEOUS COMBUSTION
Present state of research in Japan on toxicities of gases during fire
04 p0511 N84-13349

SPONTANEOUS EMISSION
The evolution of spontaneous and coherent radiation in the free electron laser oscillator
[AD-A134458] 08 p1165 N84-17583

SPOOLS
Electrical and magnetic properties of the energy-saver correction elements
[DE83-017327] 04 p0603 N84-13983
Energy efficient engine fan component detailed design report
[NASA-CR-165466] 18 p2795 N84-27737
Quality-assurance tests of five Y-12 Kevlar-49 spools used to fabricate strands and reliability specimens for stress-rupture tests
[DE84-012373] 21 p3357 N84-31295

SPORADIC E LAYER
Observations and theory of irregularities of middle latitude sporadic E layers
04 p0562 N84-13703

SPORES
NT MICROSPORES

SPOT (FRENCH SATELLITE)
SPOT potential applications: An overview of the results of the simulation campaigns
03 p0396 N84-12587
Application of high resolution satellite data to coastal zones: SPOT simulations during ecological survey of the Britanny coast
03 p0397 N84-12591
The SPOT distribution system
03 p0400 N84-12615
Software production in a large space project: The SPOT mission center
05 p0724 N84-14752
SPOT on-board software test and validation: Methodology and tools
05 p0724 N84-14755
Study of the onboard calibration equipment of the HRV camera — SPOT satellite
[ESA-TT-794] 06 p0848 N84-15529
Current trends and research challenges in land remote sensing
08 p1174 N84-17651
SPOT (French satellite) — satellite and program overviews
08 p1175 N84-17652
Typical SPOT data and products: Potential applications
08 p1175 N84-17653
Thermal control of the SPOT platform
10 p1441 N84-19411
Thermal control of multimission battery compartment of SPOT
10 p1445 N84-19440
Thermal control of the SPOT HRV instrument
10 p1445 N84-19441
Thermal control of the SPOT satellite payload telemetry
10 p1447 N84-19456

SPRAY CHARACTERISTICS
Constant-output atomizer — Inhalation therapy and aerosol research
[NASA-CASE-MFS-25631-1] 03 p0370 N84-12406
A theoretical and experimental study of turbulent particle-laden jets
[NASA-CR-166293] 04 p0485 N84-13187
Some parameters characterising the icing of ships from spray
[BLL-MO-TRANS-1570-(9022.552)]
08 p1190 N84-17753
Pneumatic atomisation with coaxial injectors: Measurements of drop size by diffraction method and liquid phase fraction by attenuation method
[NAL-TR-768] 09 p1312 N84-18574
A theoretical and experimental study of turbulent nonevaporating sprays
[NASA-CR-174668] 20 p3130 N84-29677
Splash and spray from road vehicles and associated topics: A bibliography
[CAR-8425] 21 p3398 N84-31557
Effect of physical properties on break-up and atomization of liquid jets in a supersonic crossflow
24 p3851 N84-34427

SPRAY CONDENSERS
Estimation of parameters of spray clouds
[BLL-TRANS-1571-(9022.552)]
08 p1190 N84-17752

SPRAY NOZZLES
A theoretical and experimental study of turbulent particle-laden jets
[NASA-CR-166293] 04 p0485 N84-13187
Nozzle tests for simulating heavy rain in a wind tunnel
[AD-A139566] 14 p2111 N84-23857
Effects of airblast atomizer design upon spray quality
15 p2290 N84-24744

SPRAYED COATINGS
Development of strain tolerant thermal barrier coating systems, tasks 1 - 3
[NASA-CR-168251] 03 p0355 N84-12312
Electromagnetic shielding of full-sized structures by metal arc spraying
[AD-A132883] 05 p0683 N84-14357
Feasibility of thermal NDE methods for Naval thermal spray coatings
[DE84-001463] 06 p0855 N84-15569
Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] 07 p0967 N84-16266
Stabilization of thickness of zinc coating by adaptive system of control
[BLL-M-35367-(5828.4)] 09 p1281 N84-18364
Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] 11 p1632 N84-20670
Technical report on sprayable compliant coatings
[PB84-178011] 17 p2627 N84-26810
Low cost, sprayed CuInSe2 solar cell research
[DE84-010480] 20 p3235 N84-30533
Surface modification and coatings: A technical assessment
[DE84-012483] 21 p3372 N84-31396
Improved thermal barrier coating system
[NASA-CASE-LEW-14057-1] 23 p3724 N84-33595

SPRAYED PROTECTIVE COATINGS
U PROTECTIVE COATINGS
U SPRAYED COATINGS

SPRAYERS
Estimation of parameters of spray clouds
[BLL-TRANS-1571-(9022.552)]
08 p1190 N84-17752
An experimental and analytical study of spray flow fields formed by liquid/gas coaxial injector elements
[NAL-TR-745] 15 p2331 N84-24997

The structure of evaporating and combusting sprays: Measurements and predictions
[NASA-CR-173778] 19 p3021 N84-29155
On orbit surfacing of thermal control surfaces
[NASA-CR-171121] 21 p3352 N84-31266
A theoretical and experimental study of turbulent evaporating sprays
[NASA-CR-174760] 22 p3536 N84-32390
Warm fog dissipation using large volume water sprays
[NASA-CASE-MFS-25962-1] 22 p3538 N84-32396
Preliminary guidelines for maintenance of polyurethane foam (PUF) roofing systems
[AD-A143458] 22 p3560 N84-32543
Ignition and flame propagation in sprays
[AD-A143773] 23 p3713 N84-33538

SPRAYING
NT ARC SPRAYING
NT FLAME SPRAYING
NT METAL SPRAYING
NT PLASMA SPRAYING
Assessment of energy-efficiency improvements for paint spray booths
[DE83-016680] 03 p0356 N84-12320
An experimental and analytical study of spray flow fields formed by liquid/gas coaxial injector elements
[NAL-TR-745] 15 p2331 N84-24997
The structure of evaporating and combusting sprays: Measurements and predictions
[NASA-CR-173778] 19 p3021 N84-29155
Splash and spray from road vehicles and associated topics: A bibliography
[CAR-8425] 21 p3398 N84-31557

SPRAYING APPARATUS
U SPRAYERS

SPRAYS
U SPRAYERS

SPREAD F
Real-time in-situ targeting of geoplasma domains for purposes of chemical injection and artificial triggering of equatorial spread-F 05 p0639 N84-14208
Colored bubbles: An experiment for triggering equatorial spread F 05 p0640 N84-14212
Phenomenology of structured plasma in the ionosphere
[AD-A136396] 09 p1345 N84-18784
Solar cycle related range type spread F occurrence characteristics over equatorial and low latitude stations in Brazil
[INPE-3024-PRE/462] 12 p1846 N84-22037
The variation of range type spread F occurrence with a solar cycle at Fortaleza and Cachoeira Paulista
[INPE-3209-PRE/566] 23 p3797 N84-34060

SPREAD SPECTRUM TRANSMISSION
White light signal processing with the application to spread spectrum communications
[AD-A132418] 04 p0520 N84-13417
Spread spectrum transmission. Part 1: General characteristics
[FUB-49-1982-PT-1] 06 p0826 N84-15385
Adaptive protection of detecion systems operating by spread spectrum 06 p0868 N84-15652
Jam-resistant speech encoding
[AD-A134707] 08 p1145 N84-17448
The performance of an LMS (Least Mean Square) adaptive array with frequency hopped signals
[AD-A136461] 09 p1298 N84-18489
Fundamental issues of multiple accessing
[AD-A136676] 10 p1481 N84-19675
Technical specifications for spread function model
[AD-A137292] 10 p1575 N84-20321
Navigation system and method
[NASA-CASE-GSC-12508-1] 13 p1929 N84-22546
Research Trends in Military Communications
[AD-A138229] 13 p1975 N84-22821
Enhancement of spread-spectrum systems through adaptive antenna techniques 13 p1976 N84-22824
Adaptive array combined with spread spectrum in communications 13 p1976 N84-22825
Spread spectrum communication in jamming 13 p1976 N84-22827
Applications of coding to spread spectrum communications 13 p1976 N84-22829
Trends in convolutional coding 13 p1976 N84-22830
Spread spectrum networks 13 p1977 N84-22831
Spread spectrum data networks 13 p1977 N84-22832
Generalized adaptive node concept 13 p1977 N84-22833
A digital adaptive array processing algorithm for communications 13 p1977 N84-22834
Target super-resolution compensation for coherent airborne radar utilizing spread spectrum waveforms
[AD-A136545] 13 p1982 N84-22866
Adaptive spread spectrum receiver using acoustic surface wave technology
[AD-A142129] 19 p3007 N84-29060
Applications of differential phase statistics to studies of c3 and spread spectrum communications
[AD-A142204] 19 p3007 N84-29063
Spread spectrum, acquisition and tracking
[AD-A144533] 24 p3895 N84-34668

SPREADING
Analysis of laser spot quality
[AD-A138056] 12 p1820 N84-21861
Separation processes during binary monotectic alloy production
[NASA-TM-82579] 15 p2295 N84-24773

SPRINGS (ELASTIC)
Resilient seal ring assembly with spring means applying force to wedge member --- cryogenic applications
[NASA-CASE-MFS-25678-1] 02 p0228 N84-11497
Unidirectional flexural pivot
[NASA-CASE-GSC-12622-1] 03 p0383 N84-12492
Damped pneumatic spring as shock isolator: Generalized analysis and design procedure 10 p1515 N84-19916
State space method for optimal design of shock absorbers with floating boundaries 13 p1998 N84-22966
Handbook on shock reducing devices --- on ships
[IWECO-5072311-82-1] 18 p2854 N84-26120
Studies on the insulation effect of rubber springs in complex structures in the acoustic frequency range
[BMFT-FB-HA-84-001] 19 p3037 N84-29264

SPRINKLING
Sprinklers 04 p0510 N84-13345
Automatic sprinklers 04 p0510 N84-13346

SPUR (REACTORS)
U SPACE POWER UNIT REACTORS

SPUTTERING
NT MAGNETRON SPUTTERING
Improved corrosion resistance of fine-grained 304 stainless steel in H20-CO-CO2-N2 atmospheres
[DE83-013755] 01 p0046 N84-10295
Effect of oxygen monolayer coverages on titanium sputtering yields as determined by simultaneous laser fluorescence and Auger measurements
[DE83-014716] 01 p0046 N84-10296
Surface acoustic wave/silicon monolithic sensor/processor
[NASA-CR-174541] 01 p0056 N84-10366
Analysis of beam interaction of the electrical thruster RIT 10 (particle emission) with surfaces
[DFVLR-FB-83-04] 02 p0185 N84-11202
Novel techniques for enhanced reflectivity infrared mirrors
[AD-A131824] 03 p0441 N84-12894
Fabrication and properties of multilayer structures
[AD-A131934] 03 p0451 N84-12969
Proceedings of the Workshop on Ion Mixing and Surface Layer Alloying
[DE83-015354] 03 p0455 N84-12994
Sputtered C-axis inclined piezoelectric films and shear-wave resonators
[DE83-017253] 03 p0455 N84-12997
Comparative study of TIN hard coatings produced by reactive sputtering, ion-plating and CVD technique
[BLL-RARDE-TR-1094(7291.7965)] 06 p0804 N84-15236
Sputtering of multicomponent materials 06 p0816 N84-15312
A formula for the sputtering yield of polycrystalline materials 06 p0816 N84-15313
Quantitative sputter profiling at surfaces and interfaces 06 p0816 N84-15314
Depth resolution due to instrumental factors in sputter-assisted depth profiling 06 p0816 N84-15315
Progress in polycrystalline thin-film solar cells
[DE83-012131] 06 p0875 N84-15691
Fabrication and properties of multilayer structures
[NASA-CR-174506] 06 p0922 N84-15997
Characteristic morphological and frictional changes in sputtered MoS/sub 2 films
[NASA-TM-83565] 07 p0985 N84-16380
Energy dependence of the yields of ion-induced sputtering of monatomic solids
[IPPJ-AM-32] 07 p1076 N84-16992
Study of ion bombardment-induced subsurface compositional modifications in Ni-Cu alloys at elevated temperatures by ion scattering spectroscopy
[DE84-003632] 08 p1135 N84-17380
Velocity and electronic state distributions of sputtered Fe atoms by laser-induced fluorescence spectroscopy
[DE84-003649] 08 p1230 N84-18040
Sputtering phenomena in ion thrusters
[NASA-CR-168172] 09 p1274 N84-18322
Ohmic versus rectifying contacts of Au to n-GaAs by ion sputtering 09 p1393 N84-19097
Effect of ion sputtering on the interface chemistry and electrical properties of Au/n-GaAs (100) Schottky contacts 09 p1393 N84-19099
Effect of ion sputtering on interface chemistry and electrical properties of an GaAs (100) Schottky contacts 09 p1393 N84-19100
Development of a prototype cathode sputtering plant
[BMFT-FB-T-83-251] 10 p1472 N84-19617
Thin film technology of high-critical-temperature superconducting electronics
[AD-A136722] 10 p1589 N84-20411
Frictional and morphological properties of Au-MoS2 films sputtered from a compact target
[NASA-TM-83604] 11 p1664 N84-20858
Dry etching of metallization 12 p1840 N84-21997
Diamondlike flake composites
[NASA-CASE-LEW-13837-1] 13 p1953 N84-22695
Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] 13 p2019 N84-23095
Ion-induced surface modification of alloys
[DE84-006664] 14 p2243 N84-24468
Status of plasma physics techniques for the deposition of tribological coatings 15 p2342 N84-25058
Plasma behavior in vacuum coating using hot hollow cathode: A literature survey and proposal for experiment
[DE84-007907] 15 p2411 N84-25471
Preparation of thin amorphous silicon films for thin film solar cells
[BMFT-FB-T-84-018] 16 p2518 N84-26166
Sputtered coatings for protection of spacecraft polymers
[NASA-TM-83706] 17 p2626 N84-26803
Rivista Tecnica Selenia, volume 8, number 1 17 p2652 N84-26961
Application of sputtering technology to microwave integrated circuit fabrication 17 p2653 N84-26965
Computer simulation studies of sputtering from clean tungsten and nitrogen reacted tungsten and molybdenum surfaces
[AD-A140900] 17 p2769 N84-27581
Ion sputter textured graphite electrode plates
[NASA-CASE-LEW-12919-2] 18 p2928 N84-28565
Sputter-deposited metallic and ceramic coatings for heat engines
[DE84-011401] 20 p3154 N84-30030
RF sputtering and annealing of amorphous zinc telluride films
[USIP-84-04] 20 p3159 N84-30061
Computer simulation studies of sputtering and multimer formation from clean and oxygen reacted surfaces of titanium, vanadium and niobium
[AD-A141998] 20 p3308 N84-31009
Dual ion beam deposition of carbon films with diamondlike properties
[NASA-TM-83743] 21 p3390 N84-31512
RF sputtered silicon and hafnium nitrides as applied to 440C steel
[NASA-TM-86862] 22 p3559 N84-32536
Coatings for fuel economy or materials substitution 23 p3704 N84-33477
Piezoelectric shear wave resonator and method of making same
[DE84-014528] 23 p3751 N84-33780

SQUALLS
A composite analysis of a tropical squall-line system 04 p0565 N84-13727

SQUARES (MATHEMATICS)
On Waring's problem g (4) or = 20 03 p0425 N84-12781
Theoretical and experimental studies of error in square-law detector circuits
[NASA-TM-86307] 23 p3741 N84-33714

SQUEEZE FILMS
The Shock and Vibration Digest, volume 15, no. 9
[AD-A134750] 08 p1168 N84-17609
Squeeze-film damping of rotor-dynamic systems 08 p1168 N84-17610
Experimental study of uncentralized squeeze film dampers
[NASA-CR-168317] 10 p1516 N84-19927
The effect of fluid inertia and viscoelasticity in squeeze-film damper bearings
[AD-A138054] 12 p1822 N84-21880
Dual clearance squeeze film damper
[NASA-CASE-LEW-13506-1] 13 p1932 N84-22562
Temperature effects in elastohydrodynamically lubricated contacts 15 p2340 N84-25049
Non-steady state effects in EHL 15 p2341 N84-25051
Dual clearance squeeze film damper for high load conditions
[NASA-TM-83619] 15 p2343 N84-25064

SQUEEZING
U COMPRESSING

SQUIBS
NSI-1 Squib adapter development and final test report for usage on space shuttle gas sampler valve/bottle assembly 3270
[NASA-CR-171735] 08 p1161 N84-17556
SQUID (DETECTORS)
Simplified analysis of a capacitive resonant transducer with a SQUID amplifier — gravitational antennas
[IFSI-83-4] 05 p0686 N84-14508
Spaceborne Gravity Gradiometers. Part 4: Common problems 09 p1336 N84-16720
The application of a superconducting quantum interference device second-order gradiometer to measure visual evoked responses
[AD-A138407] 12 p1885 N84-22156
SSUS-D
U SPACE SHUTTLE UPPER STAGE D
STABILITY
NT ACOUSTIC INSTABILITY
NT AERODYNAMIC STABILITY
NT AIRCRAFT STABILITY
NT ATTITUDE STABILITY
NT BAROCLINIC INSTABILITY
NT BOUNDARY LAYER STABILITY
NT COMBUSTION STABILITY
NT CONTROL STABILITY
NT DIMENSIONAL STABILITY
NT DIRECTIONAL STABILITY
NT DYNAMIC STABILITY
NT FLAME STABILITY
NT FLOW STABILITY
NT FREQUENCY STABILITY
NT GYROSCOPIC STABILITY
NT LATERAL STABILITY
NT LONGITUDINAL STABILITY
NT MAGNETOHYDRODYNAMIC STABILITY
NT MAGNETOSPHERIC INSTABILITY
NT MOTION STABILITY
NT ROTARY STABILITY
NT SHELL STABILITY
NT SPACECRAFT STABILITY
NT STATIC STABILITY
NT STORAGE STABILITY
NT STRUCTURAL STABILITY
NT SURFACE STABILITY
NT SYSTEMS STABILITY
NT THERMAL STABILITY
Analysis of shuttle oscillation in the Mach Number = 1.7 to Mach Number = 1.0 range
01 p0021 N84-10132
Approach to establishing the effect of aeroelasticity on aerodynamic characteristics of the space shuttle orbiter
01 p0021 N84-10133
Nonlinear stability control
[DE83-014341] 01 p0082 N84-10532
The use of affine transformations in the analysis of stability and vibrations of orthotropic plates
01 p0093 N84-10603
Factors affecting plastic instability and sheet formability
[DE83-011146] 01 p0097 N84-10631
The Korean auroral records, 1507 - 1747 and the SAR (Stable Auroral Red) arcs
[NASA-CR-174472] 01 p0104 N84-10677
Long wavelength limit of the E X B instability
[AD-A129812] 01 p0105 N84-10681
Height extrapolation of wind data
[DE83-012974] 01 p0109 N84-10706
Aeroelastic design considerations in the development of helicopters 02 p0171 N84-11126
The influence of aeroelastic stability requirements on helicopter design 02 p0171 N84-11127
Aeroelastic considerations in the design of high speed rotors 02 p0171 N84-11128
The lapse rate, surface albedo and global climatic stability: Experiments with an annual zonal energy balance model 02 p0246 N84-11610
Use of aircraft imagery in evaluating ground stability at open-pit uranium mines in Gas Hills, Wyoming
[DE83-903011] 03 p0401 N84-12621
Initial operation of the compressed air experiment at Pittsfield, Illinois
[DE83-016930] 03 p0404 N84-12643
Initial assessment of the MHD stability of TMX-U
[DE83-016521] 03 p0404 N84-12646
Solubility of the NiO fuel-cell cathode in Li2CO3 melts as determined by cyclic voltammetry
[DE83-014311] 04 p0530 N84-13485
Electron-cyclotron maser and whistler instabilities in a relativistic electron plasma with loss-cone distribution
[DE84-001607] 04 p0541 N84-13561
Two-dimensional accretion disk structure and stability
04 p0620 N84-14090
Baroclinic waves in the atmosphere of Mars: Observations, linear instability, and finite-amplitude evolution 04 p0621 N84-14094
Approximate linear stability analysis of a model of adiabatic shear-band formation
[DE84-001918] 05 p0656 N84-14316
Mercuric 5-nitrotetrazole, a possible replacement for lead azide in Australian ordnance. Part 1: An assessment of preparation methods
[MRL-R-901] 05 p0661 N84-14344
Advanced fuel-cell development
[DE84-002685] 05 p0676 N84-14445
Buckling of turbulent jets 05 p0683 N84-14488
High latitude field aligned currents
05 p0702 N84-14605
The instability of oscillatory Ekman boundary-layer flow 05 p0710 N84-14655
Stability analysis for difference schemes, problems in applied linear algebra, and application of number theory to computing
[AD-A133654] 05 p0735 N84-14825
Simulated precipitation reference materials, 4
[PB83-139378] 06 p0863 N84-15742
Phototransformation of polycyclic aromatic hydrocarbons into stable, mutagenic components
[DE84-001747] 07 p0966 N84-16261
Effect of radiofrequency radiation on DNA duplex stability and replication
[AD-A133526] 07 p1042 N84-16759
Wind-tunnel free-flight investigation of a model of a forward-swept-wing fighter configuration
[NASA-TP-2230] 08 p1105 N84-17184
Bifurcation and stability theory with application to problems of combustion and flame propagation
[AD-A135383] 08 p1124 N84-17306
Ultrastructure processing and environmental stability of advanced structural and electronic materials
[AD-A135107] 08 p1136 N84-17391
Evaluation of Chem-Crete high strength modified asphalt concentrate
[PB84-105089] 08 p1172 N84-17636
Stability of compressible wake and jet flows
[AD-A136541] 09 p1314 N84-18589
Review of the use of the thermodynamic diagram and its functions (with the application towards AFOS)
[PB84-120815] 09 p1350 N84-18822
Research in stochastic processes
[AD-A136222] 09 p1381 N84-19016
Harmonizable stable processes on groups: Spectral, ergodic and interpolation properties
[AD-A136504] 09 p1384 N84-19041
On transit time instability in liquid jets
[NASA-TM-77455] 10 p1490 N84-19742
Instability of circular cylinder arrays in cross flow
10 p1506 N84-19847
Stable response of damped linear systems
10 p1507 N84-19861
Lateral forces on pump impellers: A literature review
10 p1507 N84-19863
Stability of planar multifluid plasma equilibria by Arnold's method
[DE84-004332] 11 p1655 N84-20801
Piezometer probe technology for geotechnical investigations in coastal and deep-ocean environments
[AD-P002689] 11 p1659 N84-20824
Active solar heating and cooling program. Polymer stabilization film-forming, high-temperature polymers
[DE84-000093] 11 p1675 N84-20929
Relation of urban model performance to stability
[PB84-130418] 11 p1676 N84-20940
Stability of finite difference models containing two boundaries or interfaces
[NASA-CR-172319] 11 p1712 N84-21165
Redox behavior of high temperature electrodes
11 p1741 N84-21359
Review of storage stability characteristics of hydrocarbon fuels, 1952-1982
[DE84-006557] 12 p1803 N84-21754
Effect of hydromechanical inertia forces on stability of cylindrical hydrodynamic bearing
13 p1971 N84-22789
Theoretical predictions for the phase stability of dense binary mixtures 13 p2072 N84-23428
Fluid dynamic aspects of turbine engine testing
14 p2086 N84-23586
A study of helicopter gust response alleviation by automatic control
[NASA-TM-85870] 14 p2111 N84-23655
RANP: Stability Analysis Plot Program
[PB84-161447] 14 p2181 N84-24071
Stability of C* algebras of a foliated manifold
14 p2211 N84-24273
Stability of permanent magnets
[AD-A139471] 14 p2220 N84-24320
Long wavelength limit of the current convective instability
[AD-A139172] 14 p2228 N84-24358
Optically-induced bistability in a nematic liquid crystal
14 p2234 N84-24401
Quantum theory of optical excitonic bistability
14 p2237 N84-24427
Precise measurements of bistability in a CO/sub 2 laser with intracavity saturable absorber
14 p2238 N84-24431
Effects of the radial variation of the electric field on some instabilities in lasers and in optical bistability
14 p2238 N84-24433
Theory of optical bistability in collinear degenerate four-wave mixing 14 p2238 N84-24434
A saturable interferometer theory of absorptive optical bistability 14 p2238 N84-24435
Bistability in optical waveguides
14 p2239 N84-24436
Non-linear Fabry-Perot transmission in A CdHgTe etalon 14 p2239 N84-24437
The instability of axisymmetric supersonic jet impinging on flat plate
[BU-287] 15 p2258 N84-24548
Current work on high-grade space gyros at Ferranti in the UK 15 p2266 N84-24609
Purification of metals by zone melting. An optimization 15 p2307 N84-24839
Gravitational instability of an interface between two second-order fluids 15 p2314 N84-24887
A perturbation method for self-coupled combustion-instability problems
15 p2317 N84-24904
Collective instabilities and high-gain regime free electron laser
[DE84-006172] 15 p2340 N84-25045
High magnetic field MHD generator program
[DE84-007690] 15 p2411 N84-25474
Robustness qualification and improvement of multivariable regulators, with application to airplane control
[ONERA-NT-1983-2] 16 p2451 N84-25720
Stability of pumps and compressors
16 p2489 N84-25983
Transonic aeroelastic stability and response of conventional and supercritical airfoils including active controls 17 p2598 N84-26855
The NESDIS-SEL Lear aircraft instruments and data recording system
[NOAA-TR-NESDIS-9] 17 p2607 N84-26896
Stability of steady motion of planar body in field of central force 17 p2649 N84-26944
Stability of periodic oscillations of almost axisymmetric satellite in plane of elliptical orbit
17 p2650 N84-26945
STABCAR: A program for finding characteristic root systems having transcendental stability matrices
[NASA-TP-2165] 17 p2751 N84-27461
Integrated Application of Active Controls (IAAC) technology to an advanced subsonic transport project: Wing planform study and final configuration selection
[NASA-CR-3468] 18 p2792 N84-27720
Performance of the ESO PDS
18 p2840 N84-28027
Development of upper mixed ocean layer with increase in stability and in presence of wind
18 p2857 N84-28143
Factor stability and construct validation of Yuki's MBS (Managerial Behavior Survey) for military leadership
[AD-P003246] 18 p2904 N84-28413
LCAP2 (Linear Controls Analysis Program). Volume 2: Interactive LCAP2 user's guide
[AD-A141145] 18 p2924 N84-28542
The effect of solidification rate on morphological stability 18 p2936 N84-28620
Linear stability of general magnetically insulated electron flow
[DE84-010148] 19 p3018 N84-29136
Conceptual experiments in transition to turbulence through combined visualization and hot-wire techniques
[AD-A142193] 19 p3024 N84-29181
Error analysis for winters' additive seasonal forecasting system
[AD-A141355] 19 p3058 N84-29399
Problems of constitutive modeling and stability of dissipative bodies
[ISSN-0208-5658] 19 p3081 N84-29551
L infinity stability of an exponentially decreasing solution of the problem Delta u + f(x,u) = o in r(n)
[AD-A141601] 19 p3085 N84-29582
Stability of explicit Runge-Kutta methods
[DE84-008902] 19 p3090 N84-29621
Stability of equilibrium in problems with double resonance 19 p3117 N84-29809
Stability and capture of asteroids
19 p3118 N84-29811
Inductively stabilized, long pulse duration transverse discharge apparatus
[DE84-011301] 20 p3193 N84-30281
Soliton collapse during ionospheric heating
[DE84-009964] 20 p3241 N84-30578

Some design guidelines and discrete-time adaptive controllers
[NASA-CR-173800] 20 p3278 N84-30808
Instability of collapsing cylindrical shell during magnetic energy density 20 p3287 N84-30872
An on-line equivalent system identification scheme for adaptive control 21 p3343 N84-31213
Cold-cathode gas-discharge modulator power tube 21 p3379 N84-31443
The effects of internal stress and phase transformations on fracture 21 p3417 N84-31671
Stability and convergence of underintegrated finite element approximations 21 p3420 N84-31696
Variance-stable R-estimators
[AD-A143172] 21 p3475 N84-32024
Stability of stationary rotation of cylinder filled with stratified viscous incompressible fluid 21 p3479 N84-32054
Longitudinal and transverse instabilities in a high current modified betatron electron accelerator
[AD-A142622] 21 p3493 N84-32132
A study of the effects of end-cap molecular species on environmental characteristics of polimidesulfones
[NASA-TM-86283] 22 p3544 N84-32437
A diffusion mechanism in the catalytic conversion of carbonaceous materials into diamonds at high pressures
[CSIR-TRANS-1743] 22 p3557 N84-32526
Chemical stability of beta-aluminum
[DE84-009835] 22 p3560 N84-32545
A two-fluid instability
[DE84-012899] 22 p3595 N84-32764
Interaction of high intensity subnanosecond CO2 laser pulses with molecules
[AD-A143654] 23 p3754 N84-33795
Tapered-wiggler free-electron laser oscillator program
[AD-A144053] 23 p3755 N84-33799
Influence of plasma flow on flute instability
[DE84-013314] 23 p3829 N84-34285
Secular stability of rotating stars
[DE84-014011] 23 p3839 N84-34353
Microsegregation during directional solidification 24 p3882 N84-34597
Method and apparatus for precise measurement of long-term stability of photodetectors
[AD-D011190] 24 p3897 N84-34674
Microwave discharge apparatus and method with dual function priming resonator
[AD-D011202] 24 p3899 N84-34689
The effects of latent heat release on the waves with Ekman pumping 24 p3926 N84-34847

STABILITY AUGMENTATION
Development and flight evaluation of an augmented stability active controls concept with a small horizontal tail
[NASA-CR-165951] 19 p2967 N84-28805

STABILITY DERIVATIVES
NT PITCHING MOMENTS
NT ROLLING MOMENTS
NT YAWING MOMENTS
Minimum testing of the space shuttle orbiter for stability and control derivatives 01 p0021 N84-10134
The effect of constant versus oscillatory rates on dynamic stability derivatives
[AD-A136913] 10 p1421 N84-19293
Lecture notes on airplane stability and control 1, part 1
[VTH-LR-364-PT-1] 10 p1431 N84-19357
Lecture notes on airplane stability and control 1, part 2
[VTH-LR-364-PT-2] 10 p1432 N84-19358
A model of rotor blade first natural flapping response for up to three/rev excitations
[AD-A141725] 19 p2963 N84-28782

STABILITY TESTS
NT FLIGHT STABILITY TESTS
NT WIND TUNNEL STABILITY TESTS
Colour testing of nitrocellulose propellants by a spectrophotometric method
[AD-A133091] 05 p0662 N84-14348
Performance testing of the high altitude observatory PDS microdensitometer 18 p2839 N84-28022
Stability of tubes conveying fluid
[DE84-010573] 20 p3185 N84-30240

STABILIZATION
NT SIGNAL STABILIZATION
NT SPIN STABILIZATION
NT THREE AXIS STABILIZATION
Stabilization of the solvent Methyl-n-Amyl Ketone (MAK) in vinyl paints
[AD-A131059] 01 p0050 N84-10323
Rotating and propagating LIB stabilized by self-induced magnetic field
[IPPJ-640] 03 p0444 N84-12916
A frequency stabilization and trigger control unit for hybrid TEA-CO2 lasers
[AD-A132247] 04 p0540 N84-13552
Chemical stabilization of subgrade soil for the strategic expeditionary landing field
[AD-A132878] 05 p0683 N84-14356
Beam current limitations due to instabilities in modified and conventional betatrons
[AD-A133337] 06 p0915 N84-15947
Optimization of production conditions and material characteristics of tubular stabilizer bars — vehicle stabilizer bars
[BMFT-FB-T-83-177] 07 p0986 N84-16385
Investigation of electrodynamic stabilization and control of long orbiting tethers
[NASA-CR-170972] 08 p1115 N84-17251
Electrochemical applications of stabilized zirconia 11 p1740 N84-21353
Approach to solving problem of acoustic wave diffraction by elastic shell 13 p1973 N84-22804
Balancing of flexible rotors with simultaneous precise determination of influencing factors 13 p1974 N84-22808
Control of quadriaxial cardan suspension 17 p2643 N84-26911
Effect of nonhomogeneity on nonlinear stabilization of acoustic vibrations in heat emitting medium within bounded volume 17 p2646 N84-26926
Stabilization studies
[AD-A142644] 20 p3281 N84-30632
Passive line-of-sight stabilization for an infrared sensor
[AD-A143305] 22 p3599 N84-32792

STABILIZED PLATFORMS
A torque motor for a low friction single axis turntable — satellite attitude control tests
[NLR-MP-82036-U] 12 p1778 N84-21603
Control of quadriaxial cardan suspension 17 p2643 N84-26911

STABILIZERS (AGENTS)
Karnovsky-osmium as a primary fixative for electron microscopy
[AD-A142671] 20 p3300 N84-30957

STABILIZERS (FLUID DYNAMICS)
NT HORIZONTAL TAIL SURFACES
Helicopter vertical stabilizer design considerations
[AD-A132308] 04 p0483 N84-13180
IRAAM wind tunnel test, task 3
[AD-A135256] 06 p1099 N84-17148
Advanced composite stabilizer for Boeing 737 aircraft
[NASA-CR-157639] 19 p2965 N84-28915
Wind tunnel tests on a tube-launched missile configuration with a deflectable nose control and a novel wrap-around fin stabilizer
[AD-A142082] 20 p3134 N84-29900
Pitch control of a satellite using stabilizing flaps
[INPE-3185-PRE/550] 21 p3349 N84-31246
ACOSS twelve (active control of space structures)
[AD-A143829] 23 p3701 N84-33458
Advanced composite vertical stabilizer for DC-10 transport aircraft
[NASA-CR-173985] 24 p3678 N84-34573

STABLE OSCILLATIONS
Theory and experiments on chemical instabilities
[AD-A140947] 18 p2810 N84-27841
Orbital stability in combined uniform axial and three-dimensional wiggler magnetic fields for free-electron lasers
[NASA-TM-83753] 20 p3192 N84-30273
Time-dependent oscillations in a CW HF chemical laser unstable resonator
[AD-A142966] 21 p3409 N84-31622

STACKING FAULT ENERGY
Thermodynamic estimation of influence of alloying on sticking fault energy of bcc metals
[BLL-M-30130-(5628.4)] 01 p0151 N84-10995
Dip-moveout by Fourier transform 06 p0876 N84-15699

STACKING FAULTS
U CRYSTAL DEFECTS

STACKS
Moltencarbonate fuel cells, development status
[DE84-000612] 04 p0529 N84-13480
Develop and test fuel cell powered on-site integrated total energy system
[NASA-CR-168239] 04 p0557 N84-13673
Characteristics of a four nozzle, slotted mixing stack with slanted shroud, gas eductor system
[AD-A134794] 08 p1159 N84-17547
Dispersion experiments with sulfur hexafluoride from the 213m high meteorological mast at Cabauw in the Netherlands 08 p1183 N84-17706
Temperature effects of cement joints in ceramic-stack resonators
[AD-A137435] 10 p1486 N84-19716
Evaluation of gas-cooled pressurized phosphoric acid fuel cells for electric utility power generation
[NASA-CR-168298] 15 p2362 N84-25169
Effect of shroud geometry on the effectiveness of a short mixing stack gas eductor model
[AD-A132173] 18 p2836 N84-28004

STAGE SEPARATION
Separation between stages of multistage carrier rocket
[AD-A132924] 05 p0644 N84-14237
Captive trajectory system test planning information for AEDC supersonic wind tunnel (A) and hypersonic wind tunnels (B) and (C)
[AD-A136439] 09 p1259 N84-18217
Strain histories associated with stage separation systems using linear shaped charge 10 p1508 N84-19874
Tanker orbit transfer vehicle and method
[NASA-CASE-MSC-20543-1] 13 p1939 N84-22810
Separation and staging mechanisms for the Indian SLV-3 launch vehicle 15 p2349 N84-25095

STAGING (ROCKETS)
U STAGE SEPARATION

STAGNATION FLOW
Another look at the use of complex sources for the generation of bodies of revolution in incompressible flow
[CAR-8412] 21 p3398 N84-31555

STAGNATION POINT
A contribution to the problem of vortex breakdown 03 p0325 N84-12125
Engineering correlations of variable-property effects on laminar forced convection mass transfer for dilute vapor species and small particles in air
[NASA-CR-168322] 09 p1313 N84-18578
On bifurcation phenomena in conical flow patterns
[VTH-LR-378] 10 p1495 N84-19779
Fundamentals of hypersonics: Aerodynamics and heat transfer 16 p2441 N84-25660
Magnetopause merging site asymmetries 16 p2573 N84-26513
Studies of boundary layer transition and surface roughness effects in hypersonic flow
[AD-A140803] 17 p2601 N84-26670
Turbulence and surface heat transfer near the stagnation point of a circular cylinder in turbulent flow
[NASA-TM-83732] 19 p3021 N84-29157

STAGNATION PRESSURE
An investigation into the sand erosion technique as a means of determining the wind environment around buildings
[BU-294] 15 p2306 N84-24832
High speed ejectors
[AD-A141562] 18 p2796 N84-27741

STAGNATION REGION
U STAGNATION POINT

STAGNATION TEMPERATURE
Developing of practical methods for the determination of the stagnation temperature and the durability of solar collectors
[BMFT-FB-T-83-227] 10 p1530 N84-20024

STAINLESS STEELS
NT AUSTENITIC STAINLESS STEELS
NT FERRITIC STAINLESS STEELS
NT MARTENSITIC STAINLESS STEELS
Changes in acoustic emission peaks in precipitation strengthened alloys with heat tretment
[DE83-013611] 01 p0045 N84-10289
Cathodic protection in simulated geothermal environments
[DE83-013690] 01 p0045 N84-10291
The X-ray-diffraction analysis of corrosion products of Fe-Ni-Cr alloys formed in molten-nitrate salts
[DE83-013317] 01 p0046 N84-10293
Improved corrosion resistance of fine-grained 304 stainless steel in H20-CO-CO2-N2 atmospheres
[DE83-013755] 01 p0046 N84-10295
The detection of pitting corrosion in stainless steel using double-layer activation
[AERE-R-9751] 01 p0047 N84-10304
Spirally-reinforced high-strength concrete columns
[PB83-223297] 01 p0059 N84-10388
Seismic behavior of steel bent-bracing system
[PB83-224840] 01 p0061 N84-10399
Developmental techniques for ultrasonic flaw detection and characterization in stainless steel
[DE83-014282] 01 p0092 N84-10601
Environmental crack-growth-measurement techniques
[DE83-900734] 01 p0097 N84-10630
Fatigue-crack growth behavior in a nitrogen-strengthened high-manganese steel at cryogenic temperatures
[DE83-016619] 02 p0195 N84-11269
Hydrogen compatibility handbook for stainless steels
[DE83-017051] 03 p0354 N84-12301
Radiation damage and phase instability in irradiated stainless steel
[DE83-017190] 03 p0354 N84-12303

Effect of phosphorus on the swelling and precipitation behavior of austenitic stainless steels during irradiation
[DE84-000412] 04 p0499 N84-13275
Irradiation response in titanium-modified austenitic stainless steels prepared by rapid-solidification processing. Part 3. A model for the effect of titanium addition
[DE84-001296] 04 p0500 N84-13281
Grain boundary segregation and environmental degradation of a ferritic stainless steel
[DE83-016927] 04 p0502 N84-13289
Modeling crack-growth processes in fusion-reactor materials
[DE84-000477] 04 p0502 N84-13291
Influence of a flowing-lithium environment on the fatigue and tensile properties of type 316 stainless steel
[DE84-000611] 04 p0503 N84-13295
Topological reaction rate measurements related to scoffing
[NASA-TM-83486] 05 p0652 N84-14286
Specific heat of British, Czechoslovakian, French, German, Japanese, Polish, Romanian and Swedish stainless steels, state-of-the-art report
[AD-A132991] 05 p0655 N84-14306
Mechanical-property characterization of an electroslag-cast valve body of CF8M composition
[DE84-002253] 05 p0655 N84-14309
Porosity decrease in laser welds of stainless steel using plasma control
[DE84-002194] 05 p0688 N84-14521
Use of subsized specimens for evaluating the fracture toughness of irradiated materials
[DE84-001500] 05 p0693 N84-14553
Tensile and compressive constitutive response of 316 stainless steel at elevated temperatures
[NASA-TM-83506] 06 p0805 N84-15249
Pit initiation resistance of ferritic stainless steels in chloride environments from 800 to 2600C
[DE84-000355] 06 p0807 N84-15258
Ultrasonic test data acquisition and defect verification of stainless steel welds at 4000 deg F
[DE83-012146] 06 p0855 N84-15570
Microstructures of stainless steels exhibiting reduced friction and wear after implantation with Ti and C
[DE84-002252] 07 p0975 N84-16318
Hydrogen effects in stainless steel
[DE84-003483] 07 p0976 N84-16325
Mechanical properties of types 304 and 316 stainless steel after long-term aging and exposure
[DE84-003325] 07 p0976 N84-16327
Reactor pressure vessel steels ASME SA 533B and SA508.C1.2: Microstructural investigations --- heat treatment effects
[VTT-RR-219] 07 p0977 N84-16333
Endurance of steel lugs with clearance-fit pins (tensile mean stress)
[ESDU-82022] 07 p1011 N84-16559
Correlation of yield stress changes in 316 stainless steel irradiated with high-energy and fission neutrons
[DE84-002115] 08 p1133 N84-17368
Friction and wear reduction of 440C stainless steel by ion implantation
[DE84-003255] 08 p1133 N84-17371
Effects of nominal and crack-tip strain rate on IGSCC susceptibility in CERT tests
[DE84-004006] 08 p1135 N84-17378
Correlation of fracture toughness with tensile properties for irradiated 20% cold-worked 316 stainless steel
[DE84-003954] 08 p1135 N84-17379
Aging degradation of cast stainless steel: Status and program
[DE84-004018] 08 p1135 N84-17381
Acoustic leak detection and ultrasonic crack detection
[DE84-004037] 09 p1328 N84-18670
Optimal design of friction-braced frames under seismic loading
[PB84-119288] 09 p1335 N84-18714
Thermal creep and stress-affected precipitation of 20% cold-worked 316 stainless steel
[DE84-004933] 10 p1461 N84-19539
Workhardening correlations based on state variables in some FCC metals in monotonic loadings
[DE84-004880] 10 p1461 N84-19540
Repeated load relaxations of type 316 austenitic stainless steel
[DE84-004875] 10 p1461 N84-19541
Load relaxation testing at medium strain rates
[DE84-004877] 10 p1461 N84-19544
Effect of liquid tin-zinc on the drilling parameters of several alloys
[PB84-134782] 10 p1464 N84-19562
Vacuum outgassing of various materials
[DE84-004812] 11 p1626 N84-20644
Biaxial tension tests of HERF 304L stainless steel
[DE84-006205] 11 p1634 N84-20685
Measurement of stress with acoustic waves
11 p1728 N84-21273
Weld penetration variations
[DE84-007915] 13 p1998 N84-22983
Wear damage to materials --- tribology
14 p2126 N84-23747
Effect of sulfuric acid, oxygen, and hydrogen in high-temperature water on stress corrosion cracking of sensitized Type 304 stainless steel
[DE84-007276] 15 p2298 N84-24795
Plastic behavior of 304 stainless steel under plastic-strain controlled loading conditions
17 p2677 N84-27051
Metallographic examinations of type 304 stainless steel (heat 9T2796) tested in high-temperature uniaxial and multiaxial experiments
[DE84-010637] 18 p2814 N84-27886
Very low thrust and low chamber pressure GO2/GH2 thruster technology 20 p3136 N84-29910
The compatibility of MON-3 and 301 cryoformed stainless steel 20 p3138 N84-29924
The influence of nitrogen on the sensitization, corrosion, mechanical and microstructural properties of stainless steels
[DE83-017203] 20 p3157 N84-30050
Corrosion of unalloyed steels in different alkaline solutions at high temperatures and under high pressures
[S/T-REPT-VOL-1-NO-1] 20 p3159 N84-30060
Upset weld study for joining 304L stainless steel tubes
[DE84-011507] 20 p3198 N84-30313
Environmentally-controlled crack growth rate of type 304 stainless steel in high temperature sulfate solutions
21 p3364 N84-31342
Ion bombardment effects of the fatigue life of stainless steel under simulated fusion first wall conditions
[DE84-001300] 21 p3367 N84-31359
Modeling the behavior of type 304 stainless steel with a unified creep-plasticity theory
21 p3417 N84-31672
Ocean thermal energy conversion: Materials issues
[DE84-012094] 21 p3434 N84-31790
Weldability of steels: Study of cracking and methods of examination
[BLL-RISLEY-TRANS-4519-(9091.9)]
22 p3550 N84-32475
Stress corrosion cracking of stainless steels in sea water at ambient temperature
[BLL-RISLEY-TRANS-4556-(9091.9)]
22 p3550 N84-32476
Mechanical property data 15-5PH (H1025) stainless steel alloy: Hot-rolled plate
[AD-A143327] 22 p3555 N84-32510
RF sputtered silicon and hafnium nitrides as applied to 440C steel
[NASA-TM-86662] 22 p3559 N84-32536
Microstructural analysis for series 300 stainless steel sheet welds and tensile samples
[DE84-008513] 22 p3605 N84-32837
Heat transfer, fluid flow and element vaporization in laser welding
[DE84-011783] 22 p3605 N84-32839
Effect of surface doping on the oxidation of chromia former alloys
[DE84-013390] 22 p3667 N84-33247
Fatigue behavior at 650 deg of 20 percent-cold-worked type 316 stainless steel irradiated at 550 deg C in the HFIR
[DE84-014269] 23 p3718 N84-33572
Use of concentrated solar energy to form slip coatings
24 p3874 N84-34552
Irradiation creep of solution annealed and coldworked 316 stainless steel
[DE84-780404] 24 p3885 N84-34613
Effect of dose rate on the microstructure of CW 316 SS
[DE84-780403] 24 p3885 N84-34614

STAIRCASES
U STAIRWAYS

STAIRWAYS
Effective-width model for evacuation flow
04 p0512 N84-13362

STAMPING
Holding fixture for a hot stamping press
[NASA-CASE-GSC-12619-1] 03 p0382 N84-12491
Multi-transition stamping of components with thin body and tall stiffening ribs
[BLL-M-35384-(5828.4)] 06 p1140 N84-17415
Ultrasonic angle beam standard reflector
[NASA-CASE-LAR-13153-1] 11 p1728 N84-21274
Forging and stamping nonferrous metals. Handbook
[AD-A141689] 21 p3366 N84-31351
Automation of a stamping press using sequential hydraulic manipulators
[CETIM-1-4N-090] 21 p3376 N84-31422
Robotization of stamping operation reviewed
23 p3728 N84-33627

STANDARD ATMOSPHERES
U REFERENCE ATMOSPHERES

STANDARD DEVIATION
Atlas of mean sea-level pressure
[AD-A130207] 01 p0107 N84-10697
Wind-speed extremes in the Northern Hemisphere, 30 through 60 km
[AD-A132019] 03 p0410 N84-12662
A vertical wind angle standard deviation calculation method for the unstable surface boundary layer
[AD-A132362] 04 p0567 N84-13739
Eielson AFB, Alaska. Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F
[AD-A134198] 07 p1036 N84-16723
McGuire AFB, New Jersey. Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F
[AD-A134199] 07 p1036 N84-16724
Duluth, Duluth IAP, Minnesota. Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F
[AD-A134200] 07 p1037 N84-16725
King Salmon, Alaska. Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F
[AD-A134201] 07 p1037 N84-16726
Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F. Kitzingen, West Germany
[AD-A134202] 07 p1037 N84-16727
Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F. Adak NAS, Alaska
[AD-A134203] 07 p1037 N84-16728
Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F. Loring AFB, Maine
[AD-A134204] 07 p1037 N84-16729
Thermophysical properties of gaseous carbon dioxide/water mixtures
[PB84-125228] 08 p1127 N84-17330
Tabulations of ambient ozone data obtained by GASP (Global Air Sampling Program) airliners, March 1975 to July 1979
[NASA-TM-82742] 09 p1348 N84-18806
SIMTBED: A graphical test bed for analyzing and reporting the results of a statistical simulation experiment
[AD-A136812] 10 p1583 N84-20243
FGGE data impact studies in the Southern Hemisphere 12 p1850 N84-22054
Operationalizing halo: Problems with the computation of a standard deviation across dimensions within rates
[AD-A136393] 12 p1867 N84-22164
Calculations of repeatability --- of experimental results
[NPL-RS(EXT)-69] 12 p1896 N84-22347
Robust minimum distance estimation of the 3 parameter lognormal distribution
[AD-A136007] 12 p1896 N84-22349
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Yokota Air Base, Japan
[AD-A137579] 15 p2372 N84-25229
Variance-covariance components estimation by the adjustment of heterogeneous repetition measurements
[SER-C-262] 16 p2547 N84-26346
Absolute bounds on the mean and standard deviation of transformed data for constant-derivative transformations
[AD-A141854] 19 p3088 N84-29605

STANDARDIZATION
NT COMMONALITY
Minutes of FSC 5935, Connector Standardization Planning Meeting
[AD-A130681] 01 p0072 N84-10467
Project for improved performance of radiometric standard detectors (110-360 nm)
[PB83-224014] 01 p0085 N84-10556
FORTRAN 8X: A continuing language for numerical software
[DE83-014290] 01 p0124 N84-10609
Snowpack ground-truth manual
[NASA-CR-170584] 02 p0239 N84-11569
Corporate Author Authority List, 1983
[PB83-156034] 02 p0302 N84-11980
Review of the ANSI metafile and virtual device interface standardization activities
[DE83-015925] 03 p0419 N84-12737
Environments and search paths for the software tools
[DE83-016607] 03 p0420 N84-12749
Spectrographic investigation of gold by Grimm lamp
[CSIR-SR-283] 04 p0493 N84-13233
Study of potential standardization of video teleconferencing systems. Volume 2: Appendices
[AD-A132061] 04 p0522 N84-13431
Study of potential standardization of video teleconferencing systems, volume 1
[AD-A132060] 04 p0522 N84-13432
Standard format for data films --- synchrotron radiation sources
[DE84-000345] 04 p0616 N84-14068

Differences in COBOL syntax between vendors' implementations
[PB83-263392] 05 p0720 N84-14721
ANSI Ada and the UK M-CHAPSE
05 p0725 N84-14760
The aircraft infrared measurements guide
[AD-A132598] 05 p0747 N84-14905
New trends in standardization of electromagnetic microwave radiation 07 p1044 N84-16767
Software parts in FORTRAN 8X
[DE84-003621] 07 p1055 N84-16833
Preparation of standard electrical testability provisions for space equipment. Volume 1: Executive summary [DM.51/CV/JP/327.83-VOL-1]
08 p1153 N84-17507
Preparation of standard electrical provisions for space equipments
[DM.51/CV/JP/327.83-VOL-2]
08 p1153 N84-17508
National Bureau of Standards Journal of Research, volume 88, no. 4, July - August 1983
[PB84-115849] 08 p1163 N84-17571
Guide to meteorological instruments and methods of observation
[WMO-8] 08 p1191 N84-17764
Automated data base implementation requirements for the avionics planning baseline, Army
[AD-A135259] 08 p1240 N84-18103
USN/USAF Anti-G-Suit consolidation program
[AD-A136138] 09 p1364 N84-18908
Interface control document for RT-XXXX/ARC-164 UHF-AM radio
[AD-A136970] 10 p1481 N84-19681
Typographical terminology
[DE84-001981] 10 p1593 N84-20441
Proceedings of the 4th LAN-Transport Workshop
[PB84-138825] 11 p1705 N84-21116
Multibus Avionic Architecture Design Study (MAADS)
[AD-A136226] 12 p1770 N84-21546
Rationalization, standardization and interoperability: Protecting US interests in the process
[AD-P002814] 13 p2060 N84-23360
Development of a proposed standard for the exchange of scientific microcomputer programs
[PB84-157940] 14 p2207 N84-24244
Evaluation of precision of triangulation method of determining coordinates 17 p2637 N84-26869
Study of potential standardization of digital freeze frame video codecs
[AD-A141278] 18 p2829 N84-27962
Seeding the Ada (trademark) software components industry
[AD-P003432] 20 p3272 N84-30764
Enhancements to the codata definition language
[DE84-010579] 20 p3274 N84-30783
Serial link protocol design: A critique of the X.25 standard, level 2
[DE84-002724] 20 p3278 N84-30806
Improving system affordability
[AD-A142367] 20 p3318 N84-31062
Proceedings papers of the 2nd AFSC (Air Force Systems Command) Avionics Standardization Conference, volume 1
[AD-A142776] 21 p3329 N84-31121
J73AVS: A JOVIAL J73 automated verification system
[AD-P003521] 21 p3329 N84-31125
JOVIAL language control procedures with a view toward Ada (Trademark)
[AD-P003522] 21 p3330 N84-31126
The Multiple System OFP Support (MSOS) system, a Pre-PMRT capability for evaluating tactical software
[AD-P003524] 21 p3330 N84-31128
Signal set standardization for the aircraft-store electrical interconnection system
[AD-P003528] 21 p3330 N84-31132
Consideration of MIL-STD-1760, aircraft/store electrical interface standard on stores management system architectures
[AD-P003529] 21 p3331 N84-31133
The NEBULA and MCF (Military Computer Family) standardization programs
[AD-P003531] 21 p3331 N84-31135
The NEBULA standard computer architecture
[AD-P003532] 21 p3331 N84-31136
Data word standardization
[AD-P003543] 21 p3333 N84-31147
Proceedings papers of the 2nd AFSC (Air Force Systems Command) Avionics Standardization Conference, volume 2
[AD-A142777] 21 p3335 N84-31165
Achieving the benefits of modular avionics design
[AD-P003562] 21 p3336 N84-31167
Standard ISAs (Instruction Set Architectures) and VLSI (Very Large Scale Integration): Two interacting trends
[AD-P003563] 21 p3336 N84-31168
Navy packaging standardization thrusts
[AD-P003564] 21 p3336 N84-31169
Options and opportunities for standards: A NATO/AGARD viewpoint
[AD-P003577] 21 p3338 N84-31182
Proposed MIL-STD for avionics installation interfaces
[AD-P003578] 21 p3338 N84-31183
Integrated CNI (Communication Navigation and Identification) avionics and future standardization
[AD-P003580] 21 p3339 N84-31185
Quantum leap in avionics
[AD-P003584] 21 p3340 N84-31189
Standardized computing system SDS80
[AD-P003585] 21 p3340 N84-31190
Tri-service Combined Altitude Radar Altimeter (CARA): The Army perspective
[AD-P003586] 21 p3340 N84-31191
MATE standardization
[AD-P003587] 21 p3340 N84-31192
Proceedings of the 2nd AFSC (Air Force Systems Command) Avionics Standardization Conference. Volume 3: Embedded computer resources governing documents
[AD-A142778] 21 p3342 N84-31201
Proceedings of the 2nd AFSC (Air Force Systems Command) Avionics Standardization Conference. Volume 4: Tutorial: MIL-STD-1553 multiplex data bus
[AD-A142779] 21 p3342 N84-31202
Proceedings of the 2nd AFSC (Air Force Systems Command) Avionics Standardization Conference. Volume 5: Tutorial: MIL-STD-1589 JOVIAL (J-73) high order language
[AD-A142780] 21 p3342 N84-31203
Proceedings of the 2nd AFSC (Air Force Systems Command) Avionics Standardization Conference. Volume 6: Tutorial: MIL-STD-1679 weapon system software development
[AD-A142781] 21 p3342 N84-31204
Proceedings of the 2nd AFSC (Air Force Systems Command) Avionics Standardization Conference. Volume 7: Tutorial: MIL-STD-1750, 16 bit instruction set architecture
[AD-A142782] 21 p3342 N84-31205
Proceedings of the 2nd AFSC (Air Force Systems Command) Avionics Standardization Conference. Volume 8: Tutorial: MIL-STD-1815 Ada high order language
[AD-A142783] 21 p3342 N84-31206
Proceedings of the 2nd AFSC (Air Force Systems Command) Avionics Standardization Conference. Volume 9: Tutorial: Navy case study implementation of military standards
[AD-A142784] 21 p3342 N84-31207
Source-circuit design with multiple photovoltaic manufacturers 22 p3582 N84-32685
Interface standardization 22 p3584 N84-32700
Is structural interface standardization beneficial?
22 p3585 N84-32702
I/O channel interface
[NBS-FIPS-PUB-60-2] 22 p3637 N84-33057
Standardization in software conversion of (ROM) estimating 24 p3862 N84-34475

STANDARDS
NT FREQUENCY STANDARDS
NT REFERENCE ATMOSPHERES
Microwaves, hyperthermia, and human leukocyte function
[PB83-225375] 01 p0115 N84-10746
Journal of Research of the National Bureau of Standards, volume 88, number 1, January - February 1983
[PB83-226704] 01 p0160 N84-11055
Aircraft maintenance and fire
[GPO-24-247] 02 p0169 N84-11112
Evaluation of a draft standard on performance specifications for health physics instrumentation
[DE83-016169] 02 p0266 N84-11749
Evaluation of a draft standard on performance specifications for health physics instrumentation
[DE83-016186] 02 p0266 N84-11750
Alternative transmission media for third-generation interface standards
[PB83-238345] 03 p0363 N84-12365
International Telecommunication Standards: Issues and implications for the '80's
[PB83-241471] 03 p0363 N84-12366
Comments on ISO/TC 97/SC 18/WG3 N120
[DE83-011391] 03 p0420 N84-12748
Aluminum as a global high-pressure equation-of-state standard
[DE84-000153] 04 p0501 N84-13267
Standard NIM digital bus (NIM/GPIB)
[DE83-017865] 04 p0522 N84-13435
A guide for effluent radiological measurements at DOE installations
[DE83-016839] 04 p0538 N84-13542
Short introduction to office applications of markup language
[DE83-011400] 04 p0582 N84-13844
Proceedings of the Third LAN-Transport Workshop. Report of the Third Workshop for Local Area Network Implementors of the NBS Specifications of the International Standards Organization Transport Class 4 Protocol Special Interest Group on File Transfer Protocol
[PB83-251348] 04 p0584 N84-13857
Tentative STOL (short-takeoff-and-landing) flying qualities criteria for MIL standard and handbook
[AD-A132857] 05 p0629 N84-14138
Specific heat of British, Czechoslovakian, French, German, Japanese, Polish, Romanian and Swedish stainless steels, state-of-the-art report
[AD-A132991] 05 p0655 N84-14306
Practical experience of engineering software production to a structured programming standard
05 p0723 N84-14744
Research towards and development of aerospace vehicle noise certification with emphasis on propeller aircraft and helicopters 06 p0767 N84-15026
DEF STAN 00-18: A family of compatible digital interface standards 06 p0771 N84-15049
Helix and Felix: Loading standards for use in the fatigue evaluation of helicopter rotor components
[NLR-MP-82041-U] 06 p0787 N84-15149
Study of noise-certification standards for aircraft engines. Volume 2: Procedures for measuring far field sound pressure levels around an outdoor jet-engine test stand
[AD-A133408] 06 p0791 N84-15158
Simulated precipitation reference materials, 4
[PB83-139378] 06 p0883 N84-15742
Incentives for controlling the performance of high technology and professional employees
[AD-A134074] 06 p0933 N84-16061
OSHA medical and workplace surveillance requirements and NIOSH recommendations (for employees exposed to toxic substances and other work hazards)
[NASA-CR-3690] 07 p0966 N84-16258
Synopsis and recommendations of the TSC Workshop on differential operation of NAVSTAR GPS, June 1983
[PB84-121599] 08 p1103 N84-17170
Look at techniques for the dimensional calibration of standard microscopic particles
[PB84-112648] 08 p1126 N84-17324
Heat pump units with electrically driven compressors for water heating
[BLL-OA-TRANS-3181-(6196.3)]
08 p1154 N84-17514
Review of the National Ambient Air Quality Standards for sulfur oxides: Assessment of scientific and technical information
[PB84-102920] 08 p1184 N84-17711
Measurement of robot accuracy using the Latin Square Three-Dimensional Ball Plate
[DE84-004920] 08 p1206 N84-17862
Comment on direct television broadcast by satellite
09 p1265 N84-18260
Economic cases of the Civil Aeronautics Board, Volume 101, April 1983 to May 1983
[PB84-127695] 09 p1405 N84-19183
Economic cases of the Civil Aeronautics Board, Volume 102, June 1983 to July 1983
[PB84-127703] 09 p1405 N84-19184
Cordless telephone: A new degree of freedom for the telephone user — Italy 10 p1478 N84-19658
Study of noise-certification standards for aircraft engines. Volume 3: Selection and evaluation of engine-noise-certification concept
[AD-A137805] 11 p1614 N84-20563
Minimum operational performance standards for airborne radio communications equipment operating within the radio frequency range 117.975 - 137.000 MGz
[RTCA/DO-186] 11 p1642 N84-20734
Progress in the prevention and control of air pollution in 1980 and 1981
[PB84-126788] 11 p1676 N84-20939
Evaluative report on the National Engineering Laboratory, National Bureau of Standards, fiscal year 1983
[PB84-129873] 11 p1747 N84-21398
Specifications for a federal information processing standard data dictionary system
11 p1749 N84-21414
Open systems interconnection for the defence community 11 p1750 N84-21426
Safety standards on small passenger aircraft with nine or fewer seats are significantly less stringent than on larger aircraft
[PB84-142033] 12 p1767 N84-21526
Material certification and material-certification effectiveness
[PB84-143270] 12 p1804 N84-21762
Protocol standards and implementation within the digital engineering laboratory computer network (DELNET) using the universal network interface device (UNID). Part 2
[AD-A138119] 12 p1806 N84-21777

Monitoring software development through dynamic variables 13 p2027 N84-23139
Cost accounting standards: A time for government and industry action
[AD-P002767] 13 p2053 N84-23314
The new MIL-STDs (Military standard) 1388
[AD-P002806] 13 p2059 N84-23352
The avionics integrity program (AVIP)
[AD-P002817] 13 p2060 N84-23362
Landmarks of progress 13 p2065 N84-23397
Group-type hydrocarbon standards for high-performance liquid chromatographic analysis of middledistillate fuels
[NASA-TP-2317] 14 p2131 N84-23774
Standard Reference Materials (SRM) 1969: Rubidium triple-point standard: A temperature reference standard near 39.30C
[PB84-149996] 14 p2149 N84-23876
Journal of Research of the National Bureau of Standards. Volume 88, Number 6, November-December 1983
[PB84-160605] 14 p2220 N84-24322
Optical fiber characterization: Attenuation, frequency domain bandwidth, and radiation patterns, volume 2
[PB84-158914] 14 p2226 N84-24357
Standard X-ray diffraction power patterns: Section 20 - data for 71 substances
[PB84-155191] 14 p2244 N84-24475
Comparison of the force scale up to 1 MN between the Physikalisch-Technischen Bundesanstalt (PTB), West Germany and the Technical Research Centre of Finland (VTT)
[VTT-229] 15 p2306 N84-25021
The multistate reflectometer
[AD-A139318] 15 p2407 N84-25448
TDA assessment of recommendations for space data system standards 16 p2479 N84-25898
EMV norms: Introduction to the norms of electromagnetic accomodation
[MBB-UR-652-83-O] 16 p2481 N84-25910
Activities report of the Division of Quantum Metrology
[NPL-QU-AR-82] 16 p2494 N84-26002
Upgraded aircraft accident recorder standards 17 p2586 N84-26574
Deficiencies of current flight data recorders in accidents investigation 17 p2586 N84-26575
Americal National Standard X3.102 user reference manual — data communication systems and services
[PB84-155571] 17 p2654 N84-26977
Reference flat pulse generator
[PB84-162163] 17 p2672 N84-27030
Standardization of terminology in field of ionizing radiations and their measurements 18 p2823 N84-27925
Development of a qualification standard for adhesives used in hybrid microcircuits
[NASA-CR-161978] 18 p2832 N84-27979
Safety-related requirements for photovoltaic modules and arrays
[NASA-CR-173747] 18 p2868 N84-28208
Functional status of operators and its systemic and technical determinants 18 p2895 N84-28369
The Austrian primary standard for ionizing radiation dosimetry results of international intercomparisons
[OEFZS-4269] 18 p2900 N84-28401
Development of standardized specifications for screening space level integrated circuits and semiconductors
[NASA-CR-171100] 19 p3012 N84-29093
Physical measures of sound and noise 19 p3069 N84-29467
Noise reduction techniques: Criteria and validation 19 p3096 N84-29664
Eyebolts for lift suspension
[NPL-DMA(A)-70] 20 p3195 N84-30292
Robotic deburring. Part 1: Preliminary observations
[DE84-010766] 20 p3197 N84-30305
Computer science and technology: Report on approaches to database translation
[NBS-SP-500-115] 20 p3268 N84-30739
Management overview of the benefits of efficient JOVIAL J73/1750A software tools
[AD-P003519] 21 p3329 N84-31123
MIL-STD-1760 development program
[AD-P003526] 21 p3330 N84-31130
MIL-STD-1750A users group
[AD-P003547] 21 p3333 N84-31151
MIL-STD-1750A microprocessor chip set development
[AD-P003548] 21 p3334 N84-31152
The use of computer ISA (Instruction Set Architectures) and software standards at Westinghouse Defense Electronics Center
[AD-P003552] 21 p3334 N84-31156
Transportable GPU (General Processor Units) chip set technology for standard computer architectures
[AD-P003553] 21 p3334 N84-31157
Standards and integrated avionic digital system architecture
[AD-P003561] 21 p3336 N84-31166
Achieving the benefits of modular avionics design
[AD-P003562] 21 p3336 N84-31167
Standard ISAs (Instruction Set Architectures) and VLSI (Very Large Scale Integration): Two interacting trends
[AD-P003563] 21 p3336 N84-31168
An introduction to the avionics integrity program
[AD-P003565] 21 p3336 N84-31170
Elements for successful implementation of computing standards
[AD-P003566] 21 p3336 N84-31171
The application of standards to the TDY-750 (TIGERSHARK) mission computer
[AD-P003567] 21 p3337 N84-31172
Defense industry attitudes about AF interface standards report of an electronics industries association survey
[AD-P003570] 21 p3337 N84-31175
Westinghouse uses USAF-developed standards
[AD-P003572] 21 p3338 N84-31177
An integrated approach to a successful embedded computer resource project
[AD-P003574] 21 p3338 N84-31179
MIL-PRIME Program System
[AD-P003576] 21 p3338 N84-31181
Options and opportunities for standards: A NATO/AGARD viewpoint
[AD-P003577] 21 p3338 N84-31182
Proposed MIL-STD for avionics installation interfaces
[AD-P003578] 21 p3338 N84-31183
Fiber optics for the future - wavelength division multiplexing
[AD-P003579] 21 p3339 N84-31184
A corporate approach to an embedded software development and support standard
[AD-P003589] 21 p3340 N84-31194
MIL-STD defense system software development
[AD-P003590] 21 p3341 N84-31195
Proceedings of the 2nd AFSC (Air Force Systems Command) Avionics Standardization Conference. Volume 9: Tutorial: Navy case study implementation of military standards
[AD-A142784] 21 p3342 N84-31207
Guidelines for testing and release procedures
[NASA-CR-166581] 21 p3464 N84-31962
An evaluating report on the Institute for Computer Sciences and Technology, National Bureau of Standards, fiscal year 1983
[PB84-194802] 21 p3516 N84-32271

STANDING WAVE RATIOS
Amplitude-frequency method of measuring phase of reflection coefficient 18 p2826 N84-27942

STANDING WAVES
Nonperiodic fluctuations induced by stationary surface waviness on a semi-infinite plate
[AD-A130820] 02 p0174 N84-11146
Rising bubbles
[AD-A131572] 03 p0371 N84-12418
Vibrating-chamber levitation systems
[NASA-CASE-NPO-16142-1] 07 p1070 N84-16948
Gravity enhanced acoustic levitation method and apparatus
[NASA-CASE-NPO-16147-1] 07 p1070 N84-16949
A technical note on evaluation of dampers 10 p1507 N84-19859
Vibration and flutter of mistuned bladed-disk assemblies
[NASA-TM-83634] 14 p2157 N84-23923
Switching behavior of bistable resonators filled with two-level atoms 14 p2236 N84-24419
Selfpulsing, hysteresis and chaos in a standing wave laser 14 p2239 N84-24439
Optical extinction theorem theory of optical multi-stability bifurcations and turbulence in the Fabry-Perot interferometer 14 p2239 N84-24442
Flutter and forced response of mistuned rotors using standing wave analysis
[NASA-CR-173555] 15 p2262 N84-24586
Application of surface acoustic wave devices to radio telemetry
[NASA-CR-173597] 16 p2457 N84-25756
On the structure and forcing of tropospheric stationary waves 16 p2527 N84-26225
Hopf bifurcation and symmetry: Traveling and standing waves on the circle
[MC-TW-249/83] 19 p3091 N84-29631
Refined methods of aeroelastic analysis and optimization — swept wings, propeller theory, and subsonic flutter
[NASA-CR-173967] 23 p3760 N84-33835

STANDS
U SUPPORTS

STAPHYLOCOCCUS
Method of determining intensity of elimination of microorganisms from human upper respiratory tract 15 p2377 N84-25264

STAR CLUSTERS
NT VIRGO GALACTIC CLUSTER
Problems of stellar evolution in star clusters of the Magellanic clouds 03 p0463 N84-13051
Automatic measurement of celestial objects: Stars, star clusters, galaxies, supernovae, and quasars 07 p1088 N84-17078
Comparisons between observational color-magnitude diagrams and synthetic cluster diagrams for young star clusters in the Magellanic Clouds
[DE84-001870] 07 p1089 N84-17085
Clustering properties of stars outside the galactic disk 09 p1408 N84-19198
Application of multivariate analysis to the parameters of parameters of astrophysical objects 09 p1408 N84-19199
Cluster analysis of rare earths in stellar spectra 09 p1410 N84-19222
Normal galaxies 10 p1594 N84-20449
Activities report of the Institute of Astronomy 13 p2071 N84-23422
Dynamics and evolution of cD galaxies 13 p2072 N84-23425
Infrared polarimetry of young clusters 16 p2572 N84-26505
New infrared observations of IRS1, IRS3 and the adjacent nebula in the OMC-2 cluster 16 p2572 N84-26506
Infrared polarimetry of young clusters 18 p2950 N84-28704
New infrared observations of IRS1, IRS3, and the adjacent nebula in the OMC-2 cluster 18 p2950 N84-28705
Pattern recognition for Space Applications Center director's discretionary fund
[NASA-TM-82566] 18 p2951 N84-28710
The determination of frequencies and mass characteristics of binary stars in open clusters 23 p3839 N84-34355
The structure, internal kinematics and dynamics of open star clusters 23 p3839 N84-34357
Ages of extragalactic intermediate-age star clusters
[NASA-CR-173927] 23 p3840 N84-34360

STAR DISTRIBUTION
Clustering properties of stars outside the galactic disk 09 p1408 N84-19198
On the frequency of wide pairs among nearby dwarf stars 09 p1412 N84-19236
Observational and theoretical studies of rich clusters with multiple subcondensations
[NASA-CR-173618] 16 p2575 N84-26528
Research in extragalactic astrophysics
[NASA-CR-173608] 16 p2577 N84-26536
Radio astronomy 22 p3683 N84-33349

STAR FIELDS
U STAR DISTRIBUTION

STAR TRACKERS
LIDAR (light detection and ranging) measurements for astronomical refraction. Feasibility and system definition study
[AD-A130740] 01 p0147 N84-10966
Breadboard stellar tracker system test report
[NASA-CR-170973] 06 p1102 N84-17166
Canadian Attitude Sensing Experimental Package (CASEP) 06 p1110 N84-17223
Programmable scan/read circuitry for charge coupled device imaging detectors — spacecraft attitude control and star trackers
[NASA-CASE-NPO-15345-1] 13 p2042 N84-23247
Documentation for the machine-readable version of the catalogue of 20457 Star positions obtained by photography in the declination zone -48 deg to -54 deg (1950)
[NASA-TM-85572] 13 p2070 N84-23416
Image dissector tube star trackers performance: Advantages and drawbacks as compared to those of charge transfer device star trackers 15 p2266 N84-24606
Improved charge injection device and a focal plane interface electronics board for stellar tracking
[NASA-CR-171066] 19 p3012 N84-29092

STAR TRACKING
U STAR TRACKERS

STARK EFFECT
Application of the density matrix multipole expansion to stark quantum beats from beam-foil-excited hydrogen atoms
[AD-A133603] 06 p0797 N84-15193
Stark spectroscopy of hydrogen lines in turbulent plasma. 1: Low-frequency turbulence
[DE84-004443] 11 p1737 N84-21333

Measurements of ionization balance parameters in atomic ions
[DE84-007884] 14 p2222 N84-24337
Electric-dipole moment of CaF by molecular-beam, laser-RF, double-resonance study of Stark splittings
[DE84-005413] 15 p2405 N84-25439
Optical stark effect in the 2-photon spectrum of NO
[NASA-TM-85964] 21 p3492 N84-32131

STARLAB
Starlab Ground System guidelines document
[NASA-CR-175192] 10 p1592 N84-20435

STARLIFTER AIRCRAFT
U C-141 AIRCRAFT

STARS
NT A STARS
NT B STARS
NT BINARY STARS
NT BLACK HOLES (ASTRONOMY)
NT BLUE STARS
NT CARBON STARS
NT CEPHEID VARIABLES
NT COMPANION STARS
NT DWARF NOVAE
NT DWARF STARS
NT EARLY STARS
NT ECLIPSING BINARY STARS
NT GIANT STARS
NT HOT STARS
NT INFRARED STARS
NT LATE STARS
NT MAGNETIC STARS
NT MAIN SEQUENCE STARS
NT METALLIC STARS
NT NEUTRON STARS
NT NOVAE
NT O STARS
NT PECULIAR STARS
NT PRE-MAIN SEQUENCE STARS
NT PROTOSTARS
NT PULSARS
NT RED GIANT STARS
NT STELLAR GRAVITATION
NT SUBDWARF STARS
NT SUN
NT SUPERGIANT STARS
NT SUPERMASSIVE STARS
NT SUPERNOVAE
NT SYMBIOTIC STARS
NT T TAURI STARS
NT VARIABLE STARS
NT WHITE DWARF STARS
NT WOLF-RAYET STARS
Stellar Ultraviolet Rocket Research Program — faint object spectrograph
[NASA-CR-175361] 08 p1242 N84-18119
First, second and third Herstmonceux catalogues of stars for 1950.0
[BULL-189] 08 p1243 N84-18125
A classification algorithm for star-galaxy counts
09 p1409 N84-19207
Proceedings of the 16th Finnish Astronomers' Days — conference
[REPT-S-129] 09 p1413 N84-19241
Applicability of stellar rate for astronomic position determination
[AD-A135845] 10 p1595 N84-20452
A survey of halo RR Lyrae stars
13 p2069 N84-23409
Documentation for the machine-readable version of a supplement to the Bright Star catalogue (Hoffleit, Saladyga and Wlasuk 1983)
[NASA-TM-85573] 13 p2070 N84-23415
Documentation for the machine-readable version of the general catalogue of 33342 stars for the epoch 1950 (Boss 1937)
[NASA-TM-85568] 13 p2071 N84-23420
Activities report of the Institute of Astronomy
13 p2071 N84-23422
Quenched Carbonaceous Composite (QCC): A likely candidate for interstellar grains
16 p2571 N84-26501
IUE low dispersion spectra reference atlas. Part 1: Normal stars
[ESA-SP-1052-PT-1] 16 p2576 N84-26531
Numerical radiative transfer in Be disks
16 p2577 N84-26538
Irradiance from stars based on blackbody theory
[NASA-TM-82582] 17 p2775 N84-27617
Search for new water vapor masers in the direction of ROW 19-20, 36 and 48-49
[INPE-3039-TDL/156] 17 p2775 N84-27622
The PDS for space telescope guide star selection system: Status and improvements
18 p2840 N84-28032
Grain formation in the expanding gas flow around cool luminous stars
18 p2947 N84-28687
Optical and infrared polarization as a probe of matter near stars
21 p3524 N84-32324
Ultraviolet interstellar absorption toward stars in the small Magellanic cloud
22 p3677 N84-33313
Stellar winds and their dynamical influence on the interstellar medium
23 p3840 N84-34358
The ultraviolet spectrum of stars having optical Fe 2 emission lines
24 p3977 N84-35188

STARS (MATHEMATICS)
Four-valued logic star algorithm and their applications
[AD-P002370] 14 p2194 N84-24161

STARSPOTS
H alpha and TiO band observations of RS CVn stars
13 p2069 N84-23410

STARTERS
NT ENGINE STARTERS
Baseline and verification tests of the electric vehicle associates' current fare station wagon
[AD-A132549] 04 p0617 N84-14072

STARTING
Auxiliary power systems with gas turbines
03 p0334 N84-12170
High capacity heat pipe performance demonstration
[NASA-CR-171733] 06 p1157 N84-17531
Effect of control logic modifications on airstart performance of F100 engine model derivative engines in an F-15 airplane
[NASA-TM-85900] 20 p3130 N84-29879
Observations of ramped current operation in ZT-40M
[DE84-015076] 23 p3829 N84-34286

STATE EQUATIONS
U EQUATIONS OF STATE

STATE ESTIMATION
U ORBITAL POSITION ESTIMATION

STATE VECTORS
Suboptimal LQ control problem using reconstructed state feedback control law
07 p0982 N84-16364
Two-dimensional flight-path reconstruction by means of spline approximation
[NLR-TR-82075-U] 12 p1769 N84-21541
Modular design attitude control system
[NASA-CR-173684] 16 p2548 N84-26352
Asymptotic analysis of a queueing system with a two-dimensional state space
[CWI-OS-R8402] 19 p3092 N84-29637

STATIC CHARACTERISTICS
Stress analysis of wire hoist rope
[PB84-172618] 17 p2681 N84-27075
The Shock and Vibration Digest, volume 16, no. 7
[AD-A143958] 21 p3418 N84-31679
Literature review of tilting pad and turbulent hydrostatic journal bearings for nuclear main coolant pumps
21 p3418 N84-31680
The development of methods to predict both the dynamic and the pseudo-static response of secondary structures subjected to seismic excitations
[DE84-010284] 22 p3612 N84-32684

STATIC DEFORMATION
An assessment of the static strength of flush head aluminum alloy rivets in two grades of aramid aluminium laminate (ARALL) sheet
[VTH-LR-391] 12 p1827 N84-21913
Solving statics problems of thick-walled cylindrical shells with loose contact between layers
13 p1973 N84-22805

STATIC DISCHARGERS
Triggered spark gap discharger
[AD-D011174] 23 p3742 N84-33724

STATIC ELECTRICITY
The 1980 International Aerospace Conference on Lightning and Static Electricity
[CSIR-ELEK-249] 04 p0566 N84-13733
A systematic characterization of the effects of atmospheric electricity on the operational conditions of aircraft
06 p0776 N84-15066
Spacecraft-aided aerial studies of atmosphere's electrostatic zones
18 p2864 N84-28184

STATIC FIRING
Computerized static firing analysis techniques of solid propellant rocket motors
13 p1944 N84-22641
Flow pattern in an indoor rocket test stand during static firing of solid propellant rocket motors
[PML-1983-40] 17 p2614 N84-26731
Exploratory testing of the MBB 10 N Bipropellant engine. Volume 1: Characterization tests
[MBB-UR-572/82-VOL-1] 24 p3867 N84-34505

STATIC FRICTION
Transient response dynamic module modifications to include static and kinetic friction effects
22 p3610 N84-32872

STATIC LOADS
Bond characteristics of epoxy coated reinforced bars
[PB83-205518] 01 p0058 N84-10379
Further results on the predictions of collapse pressure of a ring stiffened cylindrical shell subject to hydrostatic pressure
[AD-A130877] 01 p0095 N84-10619
The effect of superposing ripple loading of maneuver load cycles
[AD-A132653] 06 p0786 N84-15148
Determination of the effect of strain rate on the mechanical properties of graphite-epoxy laminates
[AD-A136334] 09 p1276 N84-18328
Holographic FLI (Fringe Linearization Interferometry) for detection of defects
[AD-A135663] 09 p1318 N84-18612
Transducer for measuring the internal forces in the columns of a frame-wall reinforced concrete structure
[PB84-119494] 09 p1319 N84-18617
Static versus dynamic loads as an influence on bone remodelling
[NASA-CR-173365] 09 p1360 N84-18887
Determining and modeling the response of piezoresistance transducers to dynamic loading
[AD-A137121] 10 p1496 N84-19788
Lateral forces on pump impellers: A literature review
10 p1507 N84-19863
Static and dynamic structural-sensitivity derivative calculations in the finite-element-based Engineering Analysis Language (EAL) system
[NASA-TM-85743] 11 p1868 N84-20880
Stresses in a submarine topography under ocean waves
[DE84-005722] 12 p1863 N84-22139
A dynamic fracture assessment of impact damage in structural ceramics
16 p2469 N84-25826
Results of the first complete static calibration of the RSRA rotor-load-measurement system
[NASA-TP-2327] 21 p3328 N84-31111
Strength and stiffness of AISC type 2 steel frames
21 p3416 N84-31666
Nonlinear elastic stability analysis of plane frames
22 p3607 N84-32853

STATIC MODELS
Numerical calculations of the function of the static receptivity of electrons in metals
[BLL-M-35640-(5828.4)] 22 p3551 N84-32480

STATIC PRESSURE
NT HYDROSTATIC PRESSURE
Ascent air data system results from the space shuttle flight test program
01 p0020 N84-10125
Effect of high pressures and temperatures in pyrolytic boron nitride
[CSIR-1664] 01 p0030 N84-10189
Hot isostatic pressing of ceramic powder compacts
[AD-A131514] 01 p0050 N84-10324
Discussion of static pressure liquid-floated gyros
[AD-A131874] 03 p0377 N84-12451
Application of the small body pressure transducer
[AD-A131733] 03 p0377 N84-12454
The SSME seal test program: Leakage tests for helically-grooved seals
[NASA-CR-170921] 03 p0383 N84-12495
NASTRAN structural model for the large 64-meter antenna pedestal. Part 2: Improved model
04 p0519 N84-13412
Apparatus and method for jet noise suppression
[NASA-CASE-LAR-11903-2] 05 p0742 N84-14873
Hot-flow tests of a series of 10-percent-scale turbofan forced mixing nozzles
[NASA-TP-2268] 08 p1156 N84-17525
Effects of a porous plug on orifice induced static pressure error
12 p1764 N84-21507
Improvement of dynamic characteristics of gas-static bearings
13 p1968 N84-22775
New integrated circuit technology
14 p2136 N84-23804
Experimental investigation of shock-cell noise reduction for dual-stream nozzles in simulated flight comprehensive data report. Volume 2: Laser velocimeter data, static pressures and shadowgraph photos
[NASA-CR-168336-VOL-2] 14 p2220 N84-24324
The boundary layer on compressor cascade blades
[NASA-CR-173514] 15 p2332 N84-25001
Theory of rotating stall of multistage axial compressors
16 p2489 N84-25964
Aerodynamic characteristics of 2 NASA supercritical airfoils with different maximum thickness
[NASA-TM-X-2532] 18 p2784 N84-27667
On the evaluation of boundary layer measurements on boattailed bodies of revolution in axisymmetric compressible subsonic flow
[DFVLR-FB-84-09] 18 p2837 N84-28010

STATIC STABILITY
NT DIMENSIONAL STABILITY
NT SHELL STABILITY
NT STRUCTURAL STABILITY

Proposed revisions to MIL-F-8785C related to flight safety of augmented aircraft. Volume 1. Section 1 - 7
[AD-A131414] 02 p0175 N84-11153
Proposed revisions to MIL-F-8785C related to flight safety of augmented aircraft. Volume 2. Appendices A - F
[AD-A131415] 02 p0176 N84-11154
Proposed revisions to MIL-F-8785C related to flight safety of augmented aircraft. Volume 3. Appendix G. Pilot comments
[AD-A131416] 02 p0176 N84-11155
Control definition study for advanced vehicles
[NASA-CR-3738] 07 p0958 N84-16212
Analyzing sliding stability of structures using the modified computer program GWALL, revision
[AD-A136954] 10 p1517 N84-19934
L-1011 testing with relaxed static stability
11 p1618 N84-20591
Low-speed wind-tunnel study of the high-angle-of-attack stability and control characteristics of a cranked-arrow-wing fighter configuration
[NASA-TM-85776] 14 p2110 N84-23654
Hypersonic static and dynamic stability. Part 1: Equations of motion and flight dynamics
16 p2441 N84-25663
In-flight investigation of landing approach flying qualities of transport aircraft with relaxed static stability
[DFVLR-FB-84-11] 17 p2610 N84-26706
Stressed and strained state of cylindrical shells reinforced with hoops 17 p2651 N84-26952

STATIC TESTS
NT STATIC FIRING
Correction between nondestructive inspection results and performance of graphite/epoxy structural parts
01 p0034 N84-10212
The influence of fabrication flows on the static and dynamic behavior of structures made of carbon-resin composites 01 p0034 N84-10215
Computation of influence of defects on static and fatigue strength of composites 01 p0034 N84-10217
Effect of defects on aircraft composite structures
01 p0035 N84-10221
Portable dynamic pressure generator for static and dynamic calibration of in situ pressure transducers
[NASA-TM-85687] 01 p0083 N84-10538
Hygrothermal effects in continuous fibre reinforced composites. Part 3: Mechanical properties 1 - static tests
[AD-A135767] 09 p1276 N84-18332
Test-engine and inlet performance of an aircraft used for investigating flight effects on fan noise
[NASA-TP-2254] 11 p1729 N84-21277
Assessment of the existing ground test technology and confronting with the Large Space Structures (LSS) requirements. Experimental techniques in structural analysis 12 p1781 N84-21621
The compatibility of MON-3 and 301 cryoformed stainless steel 20 p3138 N84-29924
Investigation of damage and damage propagation in static and fatigue tests on carbon epoxy composites
[SNIAS-841-551-102] 21 p3358 N84-31298
A theory of error-based testing
[AD-A143533] 22 p3640 N84-33081

STATIC THRUST
Static thrust augmentation of rocket motors by air entrainment
[AD-A143179] 22 p3543 N84-32430

STATICS
NT ELECTROSTATICS
NT HYDROSTATICS
Effect of pressure on the static and dynamic acoustic properties of porous rubber
[AD-A138744] 13 p1963 N84-22756

STATIONARY ORBITS
Introduction to geostationary orbits
[ESA-SP-1053] 12 p1776 N84-21590

STATIONKEEPING
Colocation stationkeeping of geostationary satellites
19 p3121 N84-29838
Low thrust bipropellant engine development
20 p3136 N84-29912

STATIONS
NT AUTOMATIC WEATHER STATIONS
NT CREW STATIONS
NT DEEP SPACE INSTRUMENTATION FACILITY
NT EARTH TERMINALS
NT GLOBAL TRACKING NETWORK
NT GROUND STATIONS
NT HYDROELECTRIC POWER STATIONS
NT LONG DURATION EXPOSURE FACILITY
NT ORBITAL SPACE STATIONS
NT PAYLOAD STATIONS
NT SALYUT SPACE STATION
NT SPACE OPERATIONS CENTER (NASA)
NT SPACE STATIONS
NT TRACKING STATIONS
NT WEATHER STATIONS
Physical oceanography report STD data from drifting ice station Fram 1
[AD-A134244] 06 p1196 N84-17797
Discrepancies in kinematic parameters of earthquakes according to observations by regional and world networks of stations 17 p2702 N84-27213

STATISTICAL ANALYSIS
NT AMPLITUDE DISTRIBUTION ANALYSIS
NT ANALYSIS OF VARIANCE
NT BIVARIATE ANALYSIS
NT CORRELATION COEFFICIENTS
NT COVARIANCE
NT DISCRIMINANT ANALYSIS (STATISTICS)
NT FACTOR ANALYSIS
NT GOODNESS OF FIT
NT KOLMOGOROFF-SMIRNOFF TEST
NT LIKELIHOOD RATIO
NT MAXWELL-BOLTZMANN DENSITY FUNCTION
NT MULTIVARIATE STATISTICAL ANALYSIS
NT NONPARAMETRIC STATISTICS
NT NORMAL DENSITY FUNCTIONS
NT ORTHOGONALITY
NT POISSON DENSITY FUNCTIONS
NT PROBABILITY DENSITY FUNCTIONS
NT PROBABILITY DISTRIBUTION FUNCTIONS
NT QUANTILES
NT RANK TESTS
NT RAYLEIGH DISTRIBUTION
NT REGRESSION ANALYSIS
NT REGRESSION COEFFICIENTS
NT SEQUENTIAL ANALYSIS
NT STANDARD DEVIATION
NT STATISTICAL CORRELATION
NT STATISTICAL DECISION THEORY
NT STATISTICAL TESTS
NT VARIANCE (STATISTICS)
NT WEIBULL DENSITY FUNCTIONS
Statistics of crack growth of a superalloy under sustained load
[AD-A130395] 01 p0095 N84-10616
Intercomparison of stable-element content of foods by statistical methods
[DE83-014029] 01 p0118 N84-10764
Project UPGRADE extended statistical analysis
[AD-A130623] 01 p0137 N84-10897
Heavy-ion reaction mechanisms studied with the spin spectrometer
[DE83-015716] 01 p0144 N84-10950
Journal of Research of the National Bureau of Standards. Volume 87, Number 6, November-December 1982
[PB83-226670] 01 p0160 N84-11056
A contribution to the calculation of measurement uncertainty and optimization of measuring strategies in coordinate measurement — production measurement technique
[PTB-ME-39] 02 p0206 N84-11345
The geographic and statistical analysis of air quality data in the United States
[DE83-016471] 02 p0244 N84-11598
Dugway, Utah range reference atmosphere 0-30 Km altitude
[AD-A131110] 02 p0254 N84-11664
Statistical correlations of surface wind data: A comparison between a National Weather Service station and a nearby aerometric network
[PB83-237263] 02 p0257 N84-11680
Matched survival analysis (MSURV)
[AD-A131337] 02 p0284 N84-11861
Applied extreme-value statistics
[DE83-013347] 02 p0285 N84-11870
Single pilot IFR accident data analysis
03 p0311 N84-12031
A summary and integration of research concerning single pilot IFR operational problems 03 p0312 N84-12034
Proceedings of the NASA Symposium on Mathematical Pattern Recognition and Image Analysis
[E84-10032] 03 p0392 N84-12557
Estimation of uncertainty in coal resources
[DE83-902538] 03 p0401 N84-12620
On the wind stress - sea level power law
[AD-A132035] 03 p0410 N84-12681
Gust structure and gust statistics. Results from an analysis of atmospheric turbulence measurements by using conditional sampling technique
[FFA-TN-1983-28] 03 p0412 N84-12696
Weak and strong law results for a function of the spacings
[AD-A130705] 03 p0425 N84-12782
TRAN-STAT (statistics for environmental studies). Issue no. 24: Field sampling designs, simple random and stratified random sampling
[DE83-016826] 03 p0427 N84-12803
Interplanetary Alfvenic fluctuations: A statistical study of the directional variations of the magnetic field
[IFSI-82-14] 03 p0463 N84-13050
Comparison of low-altitude wind-shear statistics derived from measured and proposed standard wind profiles
[NASA-TM-85668] 04 p0482 N84-13172
Simulation and analysis of low altitude terrestrial satellites
[INPE-2754-PRE/330] 04 p0486 N84-13209
Statistical analysis of Kevlar 49/epoxy composite stress-rupture data
[DE84-000516] 04 p0492 N84-13230
Analysis of lead-acid battery accelerated testing data
[DE83-017403] 04 p0528 N84-13473
Forest statistics for southwest-north Alabama counties
[PB83-251314] 04 p0556 N84-13662
Forest statistics for southwest-south Alabama counties, Forest Service resource bulletin
[PB83-249763] 04 p0556 N84-13664
Forest statistics for southeast Alabama counties, Forest Service resource bulletin
[PB83-250753] 04 p0556 N84-13666
Forest area and timber resource statistics for state and private lands in New Mexico, 1980, Forest Service resource bulletin
[PB83-251157] 04 p0556 N84-13667
Forest statistics for west central Alabama counties, Forest Service resource bulletin
[PB83-249961] 04 p0556 N84-13668
Range reference atmosphere 0-70 km altitude
[AD-A132487] 04 p0567 N84-13737
White Sands Missile Range, New Mexico Range reference atmosphere 0-70 km altitude
[AD-A132471] 04 p0567 N84-13738
Life histories and monitoring strategies: Some lessons from field experience
[DE83-016164] 04 p0571 N84-13763
Adaptive spectral smoothing
[AD-A132574] 04 p0588 N84-13887
CRAY-1 instruction analysis: A comparison of two methods
[DE83-012778] 05 p0730 N84-14794
Convex-ordering among functions, with applications to reliability and mathematical statistics
[AD-A132796] 05 p0736 N84-14833
K-type overcontact binaries 05 p0783 N84-15003
Statistic prediction techniques of rain attenuation starting from pluviometric statistics — microwave attenuation
[FUB-51-1982] 06 p0826 N84-15387
Integrated evaluation of the quality of steel cable wire
[BLL-M-35267-(5828.4)] 06 p0854 N84-15564
Site-dependent inelastic response spectra
06 p0862 N84-15620
Pilot climate data system: A state-of-the-art capability in scientific data management
[NASA-TM-85115] 06 p0881 N84-15731
Application of the Gibbs distribution to image segmentation
[AD-A133406] 06 p0901 N84-15850
Statistical analysis of a debugging model
06 p0931 N84-16048
Data analysis and modeling of arctic sea ice subsurface roughness
[AD-A133349] 07 p1041 N84-16750
Identifying different item response curves
[AD-A133259] 07 p1049 N84-16798
Statistical properties of an integrated stationary stochastic process
[AD-A134180] 07 p1067 N84-16924
Statistical trend analysis methodology for rare failures in changing technical systems
[JUEL-SPEZ-215] 07 p1067 N84-16928
FAA (Federal Aviation Administration) statistical handbook of aviation: Calender year 1982
[PB84-127323] 08 p1096 N84-17124
Preventive maintenance on space systems
[AD-A134955] 08 p1107 N84-17198
Civilian residential fire fatality rates: Six high-rate states versus six low-rate states
[PB84-102615] 08 p1142 N84-17427
Noise
[AD-A135066] 08 p1222 N84-17983
Sharp PC-1500 pocket computer solutions to statistical data analysis of composite materials or metals
[AD-A135066] 09 p1276 N84-18334
Compendium of abstracts on statistical applications in geotechnical engineering
[AD-A136355] 09 p1297 N84-18478
Optical scintillation statistics for infrared ground-to-space laser communication systems
[AD-A136607] 09 p1299 N84-18495
Antenna pattern measurements to characterize the out-of-band behavior of reflector antennas
[AD-A136199] 09 p1304 N84-18525
An objective waveform comparison technique
[AD-A136130] 09 p1315 N84-18596

Computer-aided analysis of concrete strength test results
[AD-A136265] 09 p1330 N84-18668
Evaluation of performance measures for an urban photochemical model
[PB84-115062] 09 p1343 N84-18771
The effect of structured contextual tones on psychophysical frequency discrimination
[AD-A135433] 09 p1363 N84-18903
A statistical study of hardware related software errors in MVS
[AD-A135726] 09 p1368 N84-18931
Lattice statistics
[AD-A136568] 09 p1382 N84-19025
Meteorological database
[INPE-2790-PRE/353] 09 p1399 N84-19135
Parallel implementation of likelihood-based estimation and detection 09 p1400 N84-19148
Rule-based statistical calculations on a database abstract
[AD-A136638] 09 p1404 N84-19172
Statistical methods in astronomy — conferences
[ESA-SP-201] 09 p1407 N84-19196
Data set description and bias — in astronomy 09 p1408 N84-19197
Correction of data-quality induced bias 09 p1409 N84-19209
A cluster analysis of visual and near-infrared light curves of long period variable stars 09 p1409 N84-19210
Statistical determination of the precision obtained by a photometric reduction algorithm 09 p1410 N84-19217
Cluster analysis of rare earths in stellar spectra 09 p1410 N84-19222
Drift analysis: A forgotten technique — statistical techniques in astronomy 09 p1411 N84-19226
A methodological look at astronomical statistics in the light of unbiased estimation 09 p1411 N84-19229
Airport activity statistics of certificated route air carriers
[AD-A137418] 10 p1424 N84-19313
Speaker recognition: Example of execution of a phonic test
[FUB-55-1982] 10 p1483 N84-19690
Comparison of statistical energy analysis and finite element analysis vibration prediction with experimental results 10 p1516 N84-19923
Mathematical theories, numerical investigations — geodesy 10 p1519 N84-19949
Swirls and plumes or application of statistical methods to satellite-derived sea surface temperatures
[AD-A135462] 10 p1526 N84-20010
EPA (Environmental Protection Agency) model development for stable plume impingement on elevated terrain obstacles
[PB84-130491] 10 p1533 N84-20038
Statistics of vertical shear from a hemispheric model
[AD-A136179] 10 p1543 N84-20111
A mathematical model for oxygen toxicity in man
[AD-A137379] 10 p1547 N84-20139
Toward a new kinetic theory for resonant triads
[AD-A137066] 10 p1571 N84-20297
Approaches to automatic strategy analysis and synthesis
[AD-A137067] 10 p1573 N84-20312
Barking Sands, Hawaii. Range reference atmosphere 0-70 km altitude
[AD-A137406] 10 p1590 N84-20421
Statistical models for estimating overhead costs
[AD-A137351] 10 p1593 N84-20444
Atmospheric millimeter wave propagation model
[PB84-143494] 11 p1645 N84-20754
Water level measurement network computer file
[DE84-005388] 11 p1672 N84-20909
Meteorologically induced uncertainty in LRT modeling
[DE84-003444] 11 p1676 N84-20935
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Tonopah, Nevada
[AD-A137576] 11 p1685 N84-20992
The use of interactive graphics processing in short-range terminal weather forecasting: An initial assessment
[AD-A137165] 11 p1687 N84-21004
Estimation and prediction of oceanic eddy fields
[AD-P002652] 11 p1689 N84-21017
Statistical analysis of high SCE frequency cells in human lymphocytes
[DE84-005433] 11 p1693 N84-21042
On the logical development of statistical models
[AD-A137936] 11 p1717 N84-21203
Cable fire studies using the Ohio State University release rate apparatus 11 p1726 N84-21261
Word frequency and automatic indexing 11 p1747 N84-21401
Determination of the mixing potential in alloys from experimental data on short-range order
[BLL-M-35498-(5828.4)] 12 p1795 N84-21709
On the stability of signal detection
[AD-A138525] 12 p1808 N84-21785
State variable method of fault tree analysis
[DE84-006007] 12 p1824 N84-21891
Water vapor profile retrieval simulation studies for the HIRS/MSU and AMTS/MSU sounders 12 p1851 N84-22058
Design of a linear projector for use with the normal modes of the GLAS 4th order GCM 12 p1853 N84-22070
Lagged average forecasting, some operational considerations 12 p1854 N84-22075
Ascension Island, South Atlantic Range reference atmosphere, 0.66 km altitude
[AD-A138470] 12 p1861 N84-22122
North American climatic data catalog, part 1
[PB84-150366] 12 p1863 N84-22136
Work at high altitude: A clinical and physiological study at the United Kingdom Infrared Telescope, Mauna Kea, Hawaii
[REPT-11] 12 p1864 N84-22147
Reliability model demonstration study, volume 1
[AD-A138196] 12 p1881 N84-22262
Parameter estimation for the four parameter beta distribution
[AD-A138062] 12 p1893 N84-22333
Top-down statistical estimation on a database
[AD-A138318] 12 p1896 N84-22351
Image filtering with Boolean and statistical operators
[AD-A138421] 12 p1908 N84-22426
Civil turbofan propulsion system integration studies using powered testing techniques at ARA, Bedford
[ARA-MEMO-246] 13 p1931 N84-22561
Measuring roughness of ultrasmooth surfaces by reflectometric method 13 p1974 N84-22807
Development of a 3-D microscale topography system
[AD-A138809] 13 p2006 N84-23013
The planet crossing asteroid survey: Progress in the analysis of populations and terrestrial-planet cratering rates 13 p2075 N84-23449
Venus: Global distribution of Pioneer-Venus radar roughness and reflectivity and global correlation of altimetry, roughness and reflectivity observations 13 p2077 N84-23461
Surveillance report. Stage I dissected motors. Phase XIV. Propellant and component testing
[AD-A139201] 14 p2132 N84-23777
Determination of cloud parameters for NEROS 2 from digital satellite data
[PB84-162601] 14 p2182 N84-24075
The Extended Multi-Attribute Decision Analysis Model (EMADAM)
[AD-A139510] 14 p2206 N84-24237
Statistical approach to damage tolerance assessment
[SNIAS-832-111-112] 15 p2260 N84-24575
H Division materials physics
[DE84-007789] 15 p2304 N84-24826
Plasticity of laminated composites 15 p2308 N84-24849
Reliability-based design principle of composite materials with failure probability as a statistic 15 p2309 N84-24851
Statistical fatigue and residual strength degradation model for glass polyester laminates 15 p2309 N84-24857
Vector wind gust model
[NASA-CR-171029] 15 p2371 N84-25222
Circadian rhythm of human heart rate during antiorthostatic tests 15 p2376 N84-25259
Effect of working in two shifts on circadian rhythm of heart rate 15 p2376 N84-25260
Properties of a new rank statistic for comparing two populations in an arbitrary right censoring sampling scheme
[AD-A139640] 15 p2400 N84-25400
Updating LU factorizations for computing stationary distributions
[DE84-007566] 15 p2400 N84-25402
Proceedings of the 2nd International Workshop on Statistical Database Management
[DE84-005866] 15 p2418 N84-25522
Stellar Spectra and Their Interpretation. 1st conference of the Subcommission No. 2 15 p2421 N84-25540
Mean depths of line formation 15 p2421 N84-25541
Statistical review of alcohol-involved aviation accidents
[NTSB-SS-84-03] 16 p2445 N84-25681
Determination of the key parameters affecting historic communications satellite trends
[NASA-TM-83633] 16 p2481 N84-25906
Statistical methods of pattern recognition
[ISBN-2-7225-0694-7] 16 p2544 N84-26330
Guide to available mathematical software
[PB84-171305] 16 p2545 N84-26337
Statistics of field of multistage phased antenna array 17 p2632 N84-26834
Dispersion of sequential detection time for signals submerged in autoregressional interference 17 p2632 N84-26839
Evaluation of characteristics of system of space-time processing of signals by statistical simulation method 17 p2633 N84-26845
Statistics of crack growth in engine materials. Volume 2: Spectrum loading and advanced techniques
[AD-A140920] 17 p2680 N84-27072
Interpretation of MST radar returns from clear air 17 p2683 N84-27085
Fresnel zone considerations for reflection and scatter from refractive index irregularities 17 p2684 N84-27091
Descriptive statistical model of earthquake focal radiation and its application in evaluating short-period strong movement 17 p2700 N84-27200
Non-Gaussian statistical models of surface wave fields for remote sensing applications 17 p2715 N84-27284
On the statistical analysis of cloud seeding experiments 17 p2733 N84-27370
Interactive risk analysis and development of standardized factors
[AD-A140758] 17 p2753 N84-27473
Informative stopping rules
[AD-A140599] 17 p2758 N84-27507
Boundary conditions for the phenomena of solar bursts established from the statistical behavior of hard X-ray bands
[INPE-2906-TDL/147] 17 p2780 N84-27653
A study of precipitation occurrence using visual and infrared satellite data
[AD-A141012] 18 p2889 N84-28338
The use of satellite observed cloud patterns in Northern Hemisphere 300 mb and 1000/300 mb numerical analysis
[AD-A141215] 18 p2889 N84-28340
SNOW-ONE-A and B characterization measurements and data analysis
[AD-A141245] 18 p2890 N84-28345
Pressure filtration of ceramic pastes. 4: Treatment of experimental data
[NASA-TM-77454] 19 p2997 N84-28992
The statistical theory of the fracture of fragile bodies. Part 2: The integral equation method
[NASA-TM-77449] 19 p3035 N84-29250
Climatological and statistical bases to explain the treatment of climate data 19 p3056 N84-29391
A spiral analysis technique for monitoring and predicting tropical cyclone intensity using satellite data
[AD-A141468] 19 p3058 N84-29401
A statistical procedure for assessing test dimensionality
[AD-A142179] 19 p3068 N84-29462
Detection of randomly occuring signals using spectra and frequency domain kurtosis estimates
[AD-A141461] 19 p3084 N84-29573
Extreme value estimates for arbitrary bandwidth Gaussian processes using the analytic envelope
[AD-A141685] 19 p3086 N84-29591
Multiple time series modeling and time series theoretic statistical methods
[AD-A141891] 19 p3093 N84-29644
Calculation of the statistical characteristics of surface
[NASA-TM-77462] 20 p3183 N84-30222
Tensile crack exposure tests. Statistical analysis of the long-term durability of series B beams
[AD-A141955] 20 p3201 N84-30335
Assessment of Thematic Mapper band-to-band registration by the block correlation method 20 p3210 N84-30396
Prediction of slant wind shear with an offset tower observation system
[AD-A142676] 20 p3246 N84-30600
Natural phenomena hazards modeling project: Extreme wind-tornado hazard models for Department of Energy sites
[DE84-011157] 20 p3247 N84-30608
US Navy hindcast spectral ocean wave model climatic atlas: North Atlantic Ocean
[AD-A141810] 20 p3250 N84-30627
The APL RCS (Radar Cross Section)/statistics code description, illustrations of output, and user's guide
[AD-A142929] 21 p3386 N84-31490
Statistical tests for detecting crustal movements using Bayesian inference
[PB84-196811] 21 p3445 N84-31861
Regional Wind Energy Assessment Program report. Appendix: Wind statistics summaries
[DE84-011835] 21 p3448 N84-31876
Regional wind energy assessment program
[DE84-011832] 21 p3448 N84-31878

Assessment of local influence
[AD-A143002] 21 p3473 N84-32014
The use of double sampling in studying robustness
[AD-A142962] 21 p3475 N84-32022
Weibull analysis handbook
[AD-A143100] 21 p3475 N84-32023
A statistical classification model for a database system 21 p3517 N84-32279
Statistics of fracture of composite materials under multiaxial loading 22 p3544 N84-32433
Atmospheric propagation effects on infrared radars
[AD-A143196] 22 p3576 N84-32651
Numerical techniques for the prediction of flow induced orientation 22 p3591 N84-32743
Random vibrations of multicomponent structures 22 p3607 N84-32854
Urban scale variations of turbulence parameters and fluxes
[PB84-209113] 22 p3626 N84-32980
Static methods in the design of nonlinear automatic control systems
[AD-A143297] 22 p3644 N84-33101
Statistical analyses for nondestructive testing
[AD-A143668] 23 p3758 N84-33821
Statistical lineament analysis in South Greenland based on LANDSAT imagery 23 p3770 N84-33901
Rain rate climatologies over marine regions
[AD-A144066] 23 p3802 N84-34109
Robust confidence intervals for a scale parameter: A compromise between the Gaussian and the slash
[AD-A143666] 23 p3820 N84-34223
Group-kinetic scaling as a basis for modeling large scale turbulence 24 p3926 N84-34848
Statistical analysis and use of the VAS radiance data 24 p3929 N84-34870
Statistical structure of convective periods derived from satellite ground based data 24 p3931 N84-34882
Mechanical properties of multi-year sea ice. Phase 1: Test results
[AD-A144132] 24 p3935 N84-34907
Proceedings of the 29th Conference on the Design of Experiments in Army Research, Development and Testing
[AD-A144261] 24 p3938 N84-34927
A combined Bayes-sampling theory method for monitoring a Bernoulli process
[AD-P003840] 24 p3938 N84-34928
An optimal sequential Bernoulli selection procedure
[AD-P003841] 24 p3939 N84-34929
Summaries of the FY 1983 applied mathematical sciences research program
[DOE/ER-0157/1] 24 p3950 N84-35010
About the formation of particle energy spectrum by the statistical mechanism of particle acceleration: The character of particle energy gain in the statistical acceleration mechanism 24 p3993 N84-35268

STATISTICAL COMMUNICATION THEORY
U COMMUNICATION THEORY

STATISTICAL CORRELATION
On the distribution of the studentized maximum of equally correlated normal random variables
[AD-A131529] 02 p0282 N84-11848
A measure of the conformity of a parameter set to a trend: The partially ordered case
[AD-A131214] 02 p0285 N84-11866
Time series long memory identification and quantile spectral analysis
[AD-A132240] 04 p0590 N84-13900
A statistical approach for determining subsurface thermal structure from sea surface temperature in the northeast Pacific Ocean
[AD-A132204] 05 p0711 N84-14658
A correlation analysis of percent canopy closure versus TMS spectral response for selected forest sites in the San Juan National Forest, Colorado
[E84-10066] 06 p0885 N84-15635
Analysis of tutored videotape instructional delivery system
[AD-A133441] 07 p1050 N84-16800
Correlation structure in iterated Farlie-Gumbel-Morgenstern distributions
[AD-A137055] 10 p1571 N84-20293
Statistical correlation of structural mode shapes from test measurements and NASTRAN analytical values
[NASA-TM-86044] 16 p2501 N84-26054
Retrieval of vertical moisture profiles with microwave radiometry 23 p3775 N84-33929
Research on self-generated stochastic motion
[AD-A144093] 23 p3820 N84-34225
A type of correlated data in operational testing
[AD-P003848] 24 p3939 N84-34935

STATISTICAL DECISION THEORY
On some issues concerning optimization and decision trees
[AD-A134109] 05 p0733 N84-14815
Total positivity, a review
[AD-A133691] 05 p0740 N84-14859
The 2-stage selection procedures based on tests
[AD-A133405] 06 p0904 N84-15871
Water mass classification in the North Atlantic using IR digital data and Bayesian decision theory
[AD-P003125] 16 p2534 N84-26266
On the optimality of some subset selection procedures
[AD-A140160] 16 p2549 N84-26362
Bayes-p* subset selection procedures for the best population
[AD-A140179] 16 p2551 N84-26367
Numerical methods for Bayes sequential decision problems
[AD-A140418] 16 p2551 N84-26369
Equitable assignment rules
[AD-A142809] 21 p3515 N84-32268

STATISTICAL DISTRIBUTIONS
NT BRIGHTNESS DISTRIBUTION
NT PROBABILITY DISTRIBUTION FUNCTIONS
NT RAYLEIGH DISTRIBUTION
Rejection of multivariate outliers
[AD-A130686] 01 p0133 N84-10670
On the distribution of the studentized maximum of equally correlated normal random variables
[AD-A131529] 02 p0282 N84-11848
Estimating location parameters in a mixture model 03 p0392 N84-12559
Mixture models for dependent observations 03 p0393 N84-12562
Effect of noise in the three-parameter logistic model
[AD-A131867] 03 p0416 N84-12721
Comparison of low-altitude wind-shear statistics derived from measured and proposed standard wind profiles
[NASA-TM-85666] 04 p0482 N84-13172
Asymptotic null and nonnull distributions of three multivariate test statistics in Gmanova
[TR-82] 04 p0592 N84-13905
Higher-order derivative correlations and the alignment of small-scale structures in isotropic numerical turbulence
[NASA-TM-84407] 05 p0679 N84-14484
Some new results on Grubbs' estimators
[AD-A133922] 05 p0739 N84-14852
On the fitting of Pearson curves to sums of independent random variables
[AD-A133153] 06 p0900 N84-15844
Assessment of Fisher and logistic linear quadratic discrimination models
[ORNL/CSD-TM-200] 06 p0904 N84-15865
A Berry-Esseen bound for symmetric statistics
[MC-SW-95/83] 07 p1067 N84-16929
Isotonic procedures for selecting populations better than a standard: Two-parameter exponential distributions
[AD-A135445] 08 p1223 N84-17965
A renormalization group model for the stick-slip behavior of faults
[NASA-CR-173362] 09 p1344 N84-18782
Average run lengths of an optimal method of detecting a change in distribution
[AD-A136385] 09 p1381 N84-19019
Inspection errors in link sampling
[AD-A135636] 09 p1382 N84-19029
Evaluation of the quality of predictions in the case of a variable with strongly asymmetric distribution — solar flares 09 p1410 N84-19215
Estimation: Comments on least squares and other topics 09 p1411 N84-19227
Creep-rupture reliability analysis
[NASA-CR-3790] 10 p1516 N84-19925
Estimation of two-parameter logistic item response curves
[AD-A137223] 10 p1569 N84-20280
Correlation structure in iterated Farlie-Gumbel-Morgenstern distributions
[AD-A137055] 10 p1571 N84-20293
A method for determining if unequal shape parameters are necessary in a bivariate gamma distribution 10 p1573 N84-20306
Analysis of wind gust data 10 p1573 N84-20306
Some analytical aspects of the peakedness concept
[MC-BW-183/83] 13 p2037 N84-23217
Distribution and properties of small volcanoes in Acidalia Planitia 13 p2060 N84-23478
Estimation of latent group effects
[AD-A139299] 14 p2218 N84-24310
D-1 statistical model of tropospheric multipath propagation 15 p2322 N84-24944
Risk and distributional inequality
[AD-A140373] 16 p2565 N84-26458
An axiomatic theory of concentration and diversity — in biology
[NLR-MP-83015-U] 17 p2760 N84-27531
An application of the H-function to curve-fitting and density estimation
[AD-A141045] 18 p2925 N84-28553
How many specimens? An aid in the design of fatigue test programs
[AD-A142810] 21 p3422 N84-31704
Statistics at HF skywave ground backscatter Doppler spectra
[PB84-204973] 22 p3578 N84-32669
Distribution results for positive definite quadratic forms with repeated roots
[AD-A143450] 22 p3645 N84-33115
Asymptotic relative efficiencies of the rank transformation procedure in randomized complete block designs
[DE84-010600] 22 p3649 N84-33134
A methodology for the distribution of databases 22 p3670 N84-33265

STATISTICAL MECHANICS
Investigation of the statistical mechanics of linear polymers for various physical conditions
[JUEL-1832] 03 p0357 N84-12324
Progress in lattice gauge theory
[DE83-014055] 03 p0436 N84-12862
Revision of the statistical mechanics of phonons to include phonon line widths
[DE83-017229] 04 p0614 N84-14051
An exactly solvable model for ideally polarizable interfaces
[AD-A138719] 13 p2033 N84-23182
Supersymmetric statistical models on the lattice
[DE84-006758] 15 p2414 N84-25494
Statistical-mechanical study of polyvinylidene fluoride
[AD-A143040] 21 p3370 N84-31383
Research on self-generated stochastic motion
[AD-A144093] 23 p3820 N84-34225
Improving automated statistical data processing 24 p3942 N84-34956

STATISTICAL MOMENTS
U DISTRIBUTION MOMENTS

STATISTICAL PROBABILITY
U PROBABILITY THEORY

STATISTICAL TESTS
NT KOLMOGOROFF-SMIRNOFF TEST
NT RANK TESTS
A note on the geometry of Kullback-Leibler information numbers
[AD-A129170] 01 p0129 N84-10840
Linear rank procedures for matched observations
[AD-A131338] 02 p0284 N84-11862
Tests for exponentiality when origin and scale parameters are unknown
[AD-A131377] 02 p0284 N84-11864
A measure of the conformity of a parameter set to a trend: The partially ordered case
[AD-A131214] 02 p0285 N84-11866
Tests for an increasing trend in the intensity of a Poisson process: A power study
[AD-A131213] 02 p0285 N84-11867
Tests for and against trends among Poisson intensities
[AD-A131212] 02 p0285 N84-11868
Algorithm for computing significance levels using the Kolmogorov-Smirnov statistic and valid for both large and small samples
[DE84-001586] 04 p0592 N84-13909
A multiple ranking procedure adapted to discrete-event simulation
[AD-A133649] 05 p0740 N84-14860
The 2-stage selection procedures based on tests
[AD-A133405] 06 p0904 N84-15871
A parametric bootstrap procedure for testing separate families of hypotheses
[AD-A134533] 07 p1062 N84-16887
Testing hypotheses in linear models with weighted rank statistics
[AD-A135759] 09 p1383 N84-19032
Towards a comprehensive approach to the analysis of categorical data
[AD-A135967] 09 p1383 N84-19034
Estimation of two-parameter logistic item response curves
[AD-A137223] 10 p1569 N84-20280
An extension of the two-parameter logistic model to the multidimensional latent space
[AD-A137769] 11 p1713 N84-21173
Comparison of the dichotomous and polychotomous quantal response models
[AD-A137938] 11 p1715 N84-21185
Bayesian reliability test plans for one-shot devices
[AD-A138234] 12 p1896 N84-22350
Variable selection in heteroscedastic discriminant analysis
[CSIR-TWISK-283] 13 p2031 N84-23171
Evaluating the response of complex systems to environmental threats: The Sigma 2 method
[UCRL-53399] 16 p2551 N84-26366

Approximating the level probabilities in order restricted inference: The simple tree ordering
[AD-A140684] 17 p2760 N84-27525
A statistical procedure for assessing test dimensionality
[AD-A142179] 19 p3068 N84-29462
A uniform bound for the tail probability of Kolmogorov-Smirnov statistics
[AD-A141761] 19 p3083 N84-29643
Asymptotic laws of the tests and rupture estimators in a classical statistical model
[ENST-84C001] 19 p3094 N84-29653
Durability methods development, volume 7
[AD-A142400] 20 p3128 N84-29865
Theory and applications of random fields
[AD-A142346] 20 p3283 N84-30847
How many specimens? An aid in the design of fatigue test programs
[AD-A142810] 21 p3422 N84-31704
An exhaustive analysis of multiplicative congruential random number generators with modulus 2(31)-1
[AD-A143065] 21 p3473 N84-32015
Artificial intelligence theory and reconfigurable control systems
[AD-A143766] 23 p3617 N84-34203
Numerical validation of Tukey's criterion for clinical trials and sequential testing
[AD-P003853] 24 p3940 N84-34939

STATISTICAL WEATHER FORECASTING
Interannual variability of Indian monsoon rainfall
12 p1855 N84-22081
Long-term dynamical stability and transition in a spectral model 12 p1856 N84-22094
A compound Weibull model for the description of surface wind velocity distributions
[KNMI-WR-83-13] 12 p1862 N84-22129
Air Weather Service model output statistics systems
[AD-A139129] 14 p2179 N84-24053
Generalized Exponential Markov (GEM) updating procedure for AFOS (Automation of Field Operations and Services)
[PB84-154822] 14 p2180 N84-24060
Experimental wind forecasts from the local AFOSMOS (Automation of Field Operations and Services Model Output Statistics) program
[PB84-155514] 14 p2180 N84-24062
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Yokota Air Base, Japan
[AD-A137579] 15 p2372 N84-25229
Low-level stratus prediction using binary statistical regression: A report using Moffett Field data
[AD-A140468] 16 p2551 N84-26370
A scheme for mass and wind analysis on a limited area using multivariate three-dimensional optimum interpolation: Scientific documentation and first evaluation
[KNMI-TR-46] 17 p2734 N84-27362
Wave climate synthesis using NMIMET: A trilogy of published papers
[NMI-R-167] 18 p2855 N84-28127
Assessment of a new global capability for wave climate synthesis 18 p2855 N84-28128
Wave climate synthesis worldwide
18 p2855 N84-28130
Prediction of slant wind shear with an offset tower observation system
[AD-A142676] 20 p3246 N84-30600
A discriminant analysis of radar data applied to severe storms 23 p3775 N84-33933
Statistical severe storm nowcasting comparison of VAS and Rawinsonde soundings 24 p3930 N84-34878

STATISTICS
Two-level compromise designs for estimating main effects and detecting interactions
[DE84-002997] 08 p1236 N84-16094
Statistics and operations research in Europe--1983
[AD-A138953] 13 p2037 N84-23215
Approximations for expected values of normal order statistics with an application to goodness-of-fit
[AD-A139970] 15 p2400 N84-25401
HP-41C programs and instructions for probability and statistics
[AD-A140573] 17 p2752 N84-27468

STATOR BLADES
Flow measurements in the stator row of a single-stage transonic axial-flow compressor with controlled diffusion stator blades 07 p0958 N84-16209
Redesign and cascade tests of a supercritical controlled diffusion stator blade-section
[NASA-TM-83635] 13 p1926 N84-22533
Stator blade row geometry modification influence on two-stage, axial-flow compressor aerodynamic performance
[AD-A141793] 19 p2966 N84-28797

STATORS
Development of a generator stator insulation system
[AD-A130376] 01 p0070 N84-10455
Flow measurements in the stator row of a single-stage transonic axial-flow compressor with controlled diffusion stator blades 07 p0958 N84-16209
Low-cost stator material for M734 alternators
[AD-A126804] 07 p0997 N84-16484
Report of tests of a compressor configuration of DCA blading
[AD-A133350] 07 p1002 N84-16501
A mathematical model for the doubly-fed wound rotor generator, part 2
[NASA-TM-83581] 08 p1149 N84-17479
Secondary flow spanwise deviation model for the stators of NASA middle compressor stages
[NASA-CR-173360] 09 p1256 N84-18202
SSME interstage seal research
[NASA-CR-170995] 11 p1624 N84-20631
Study of stator-vane fluctuating pressures in a turbofan engine for static and flight tests
[NASA-TP-2217] 12 p1898 N84-22363
Stator blade row geometry modification influence on two-stage, axial-flow compressor aerodynamic performance
[AD-A141793] 19 p2966 N84-28797
Analytical and experimental investigation of stator endwall countouring in a small axial-flow turbine
[NASA-TP-2309] 22 p3536 N84-32388

STAYS
U GUY WIRES

STEADY FLOW
NT COUETTE FLOW
The calculation of steady and unsteady transonic flow in cascades
[CUED/A-TURBO/TR-118] 01 p0002 N84-10016
Stability of a pair of stationary vortices in the leeward side of a cylinder in a potential flowfield
[AD-A131917] 03 p0320 N84-12095
The vortex skeleton model for three-dimensional steady flows 03 p0321 N84-12101
Steady and unsteady flow models for airfoils with spoiler 03 p0327 N84-12136
The AGCE related studies of baroclinic flows in spherical geometry
[NASA-CR-170934] 03 p0371 N84-12415
La Recherche Aerospatiale, Bimonthly Bulletin, no. 1982-4, 209/July-August 1982
[ESA-TT-781] 04 p0477 N84-13141
Computation of steady internal flows using integral representation methods with finite series expansions
06 p0833 N84-15418
Shock conditions and shock wave structures in a steady flow in a dissipative fluid
[NASA-TM-77381] 07 p1001 N84-16490
Adjoint sensitivity theory for steady-state ground-water flow
[DE84-003335] 09 p1337 N84-18732
Steady internal flow and aerodynamic loads analysis of shuttle thermal protection system
[NASA-TP-2255] 10 p1439 N84-19393
Steady viscous flow past a circular cylinder
10 p1560 N84-20223
Application of laser velocimetry to unsteady flows in large scale high speed tunnels
[NASA-CR-166575] 12 p1765 N84-21511
Transonic flow calculations using triangular finite elements 13 p1925 N84-22529
Solutions of the Navier-Stokes equations for stationary flow in a spherical gap
[PREPRINT-611] 13 p1991 N84-22925
Nonuniqueness and stability of the configuration of flow of immiscible fluids with different viscosities
[AD-P002937] 14 p2196 N84-24177
Flow past a flexible membrane
[AD-P002938] 14 p2197 N84-24178
Pseudo-unsteady systems for steady inviscid flows
[ONERA-P-1983-4] 16 p2487 N84-25955
False diffusion in three-dimensional steady flow calculations
[KU-SFB-80/T/224] 17 p2669 N84-27017
Optimization of a numerical method to calculate elliptic flows
[DFVLR-FB-84-16] 20 p3187 N84-30252
Analytical and numerical study of the flow in a shock tube with an area change at the diaphragm section
[UTIAS-TN-255] 21 p3399 N84-31563
Enthalpy damping for the steady Euler equations
[NASA-TM-86006] 24 p3950 N84-35009
Rising bubbles in a two-dimensional tube with surface tension
[AD-A144693] 24 p3953 N84-35031

STEADY STATE
A steady-state thermal model for analysis of incipient icing on an air foil leading edge
[AD-A131207] 02 p0175 N84-11150
Effect of RF structure on cumulative beam breakup
[DE83-017302] 03 p0439 N84-12882
A steady-state axisymmetric toroidal system
[IPPJ-643] 03 p0443 N84-12910
Multiple steady states of buoyancy induced flow in cold water and their stability 04 p0530 N84-13487
Oak Ridge heat-pump models. Part 1: A steady-state computer design model for air-to-air heat pumps
[DE84-001577] 04 p0535 N84-13519
Higher-order derivative correlations and the alignment of small-scale structures in isotropic numerical turbulence
[NASA-TM-84407] 05 p0679 N84-14464
Methods for choosing buffer size in tandem production operations
[AD-A132639] 05 p0735 N84-14828
Sodium boiling experiments in bundle geometries under fast transient and steady state conditions — fast breeder reactor safety analysis 06 p0843 N84-15496
Theoretical simulation of thermohydraulic behavior of sodium cooled subassemblies in steady state and transient conditions — liquid metal fast breeder reactors (LMFBR)
06 p0843 N84-15498
Numerical solution to the steady state equation of transfer in azimuthally symmetric geometries — heat transfer and molecular flow
[DE84-001781] 06 p0845 N84-15509
Digital computer program for generating dynamic turbofan engine models (DIGTEM)
[NASA-TM-83446] 07 p0954 N84-16185
The number of solutions of an equation from catalysis
[AD-A134555] 07 p1063 N84-16896
Ultraviolet studies of nova-like variables with the IUE
[NASA-CR-175233] 07 p1099 N84-17080
Numerical computation of steady state scattered sound external to submerged infinite cylinders by combining finite element and integral equation methods
[AD-A134773] 08 p1227 N84-18020
Equilibria in strongly magnetized pair plasmas
09 p1407 N84-19191
Derivation of the properties of the cosmic background radiation from a static world model
09 p1413 N84-19244
Numerical study of heat transfer in turbulent shear flow
[DE84-005106] 11 p1655 N84-20802
Diagnosis of the GLAS climate model's stationary planetary waves using a linearized steady state model
12 p1856 N84-22095
Microcomputer numerical analysis system for gas dynamics application
[NASA-CR-171005] 13 p1988 N84-22908
Bistable operation of two semiconductor lasers in an external cavity: Rate-equation analysis
14 p2233 N84-24400
Polarization switching with J=1/2 to J=1/2 atoms in a ring cavity 14 p2237 N84-24423
Selfpulsing, hysteresis and chaos in a standing wave laser 14 p2239 N84-24439
Investigation of ice dynamics in the marginal ice zone
[AD-A138558] 17 p2737 N84-27387
Development and evaluation of a performance modeling flight test approach based on quasi steady-state maneuvers
[NASA-CR-170414] 18 p2793 N84-27724
Hygrothermal effects in continuous fibre reinforced composites. Part 1: Thermal and moisture diffusion in composite materials
[AD-A128228] 18 p2810 N84-27837
Steady-state solutions of propagating LIB with rotating motion
[IPPJ-672] 19 p3106 N84-29734
A steady-state version of a dynamic optimal budgeting problem
[AD-A142281] 20 p3312 N84-31034
Steady state performance of single-phase reaction motor 21 p3476 N84-32035
Fast solutions to the steady state compressible and incompressible fluid dynamic equations
[NASA-CR-172416] 22 p3530 N84-32349
Response of a small-turboshaft-engine compression system to inlet temperature distortion
[NASA-TM-83765] 23 p3694 N84-33414
Temperature and heat-flux distributions in a strip-heated composite slab
[DE84-008016] 23 p3712 N84-33529
Flute instability of plasma in a gas-dynamic trap
[DE84-013348] 23 p3828 N84-34284
Steady state creep in quartz
[DE84-701196] 24 p3912 N84-34776
The density distribution of galactic cosmic rays allowing for the generalized tensor of anisotropic diffusion and for the real distribution of solar activity
24 p3994 N84-35275

STEADY STATE FLOW
U EQUILIBRIUM FLOW

STEAM
Methanol production by catalytic gasification of wood
[DE83-013744] 01 p0053 N84-10341
Sterile devices: A GMP (Good Manufacturing Practices) workshop manual
[PB83-226563] 01 p0061 N84-10400
Creep and tensile properties of alloy 800H-Hastelloy X weldments
[DE83-017067] 03 p0390 N84-12542
Condensation heat transfer of steam on a single horizontal tube
[AD-A132245] 04 p0533 N84-13508
The effect of condensate inundation on steam condensation heat transfer to wire-wrapped tubing
[AD-A132175] 04 p0615 N84-14060
Aerodynamics and steam wetness fraction of a multistage turbine. Comparison of prediction with experimental data 06 p0840 N84-15475
Influence of Ar + CO2 shielding on the composition of a Cr-Mo-V weld
[BLL-CE-TRANS-8000-(9022.09)] 06 p0851 N84-15550
Forced convection heat transfer to air/water vapor mixtures
[NASA-CR-3769] 07 p1000 N84-16486
Desulfurization of hot reducing gas by means of metal oxides in a fixed bed reactor
[BMFT-FB-T-84-015] 16 p2463 N84-25783
Steam bottoming cycle for an adiabatic diesel engine
[NASA-CR-168255] 22 p3676 N84-33304
An evaluation of polymer coatings for the promotion of dropwise condensation of steam
[AD-A144018] 23 p3725 N84-33602

STEAM FLOW
Measurement of two-phase flow velocity using a laser Doppler anemometer
[DE83-013522] 01 p0082 N84-10531
Turbine aerodynamic design using through-flow theory. Meridional through-flow calculation 06 p0840 N84-15474
Measurements in steam turbines 06 p0840 N84-15476
Applications of through-flow theory — steam turbines 06 p0840 N84-15477
Wet steam flow in L. P. turbines — low pressure (LP) 06 p0841 N84-15483

STEAM GENERATORS
U BOILERS

STEAM TURBINES
Microkinetics of stress-corrosion cracking in steam-turbine disc alloys
[DE83-902290] 01 p0048 N84-10307
Steam turbine as unipolar generator
[AD-A131142] 03 p0383 N84-12498
Aerothermodynamics of Low Pressure Steam Turbines and Condensers, volume 1 — conferences
[VKI-LS-1983-06-VOL-1] 06 p0840 N84-15472
The design of modern Low Pressure (LP) steam turbines 06 p0840 N84-15473
Turbine aerodynamic design using through-flow theory. Meridional through-flow calculation 06 p0840 N84-15474
Aerodynamics and steam wetness fraction of a multistage turbine. Comparison of prediction with experimental data 06 p0840 N84-15475
Measurements in steam turbines 06 p0840 N84-15476
Applications of through-flow theory — steam turbines 06 p0840 N84-15477
Trends in steam turbine design, testing and manufacturing 06 p0840 N84-15478
A review of current research activity on the aerodynamics of axial flow turbines 06 p0841 N84-15480
Three-dimensional flow calculations on a hypothetical steam turbine last stage 06 p0841 N84-15481
Aerothermodynamics of Low Pressure Steam Turbines and Condensers, Volume 2 — conferences
[VKI-LS-1983-06-VOL-2] 06 p0841 N84-15482
Wet steam flow in L. P. turbines — low pressure (LP) 06 p0841 N84-15483
Two dimensional condensing flow in transonic turbine cascades 06 p0841 N84-15484
Steam condenser thermal design theories 06 p0841 N84-15485
Steam condenser developments 06 p0841 N84-15486
AFB/open cycle gas turbine conceptual design study
[NASA-CR-168135] 21 p3434 N84-31784

STEEL STRUCTURES
Note on standardization of implant tests
[VTT-RR-189] 02 p0198 N84-11288
Cumulative damage in components of steel structures under cyclic inelastic loading 03 p0391 N84-12550
The effect of post weld heat treatment on welds in steel structures
[VTT-RR-217] 07 p1013 N84-16570
Tests on steel I-beam columns subjected to thrust and biaxial bending
[CRIF-MT-157] 07 p1017 N84-16598
Metallurgical aspects and mechanical properties of weld metal in automatic submerged arc welding
[BLL-RISLEY-TR-4875-(9091.9F)] 09 p1324 N84-18850
Development of low temperature cure epoxy paint for offshore steel structures in cold areas
[NRC/CNR-TT-2078] 11 p1636 N84-20894
Characterization of submerged-arc and gas-metal-arc weldments in hY-100 steel
[AD-A141939] 20 p3196 N84-30298
Improving comfort of welders by reducing preheating temperatures — steel welding
[CETIM-12-Y-413] 21 p3414 N84-31651
Strength and stiffness of AISC type 2 steel frames 21 p3416 N84-31666
Structural analysis of the support system for a large compressor driven by a synchronous electric motor 22 p3610 N84-32873
Analysis of fatigue crack propagation of structural steel members subjected to variable amplitude fatigue stress 24 p3957 N84-35055

STEELS
NT AUSTENITIC STAINLESS STEELS
NT BAINITIC STEEL
NT CARBON STEELS
NT CHROMIUM STEELS
NT FERRITIC STAINLESS STEELS
NT HIGH STRENGTH STEELS
NT LOW CARBON STEELS
NT MARAGING STEELS
NT MARTENSITIC STAINLESS STEELS
NT NICKEL STEELS
NT STAINLESS STEELS
Heating and melting low-melting ferroalloys and hardeners in molten steel
[BLL-M-35219-(5828.4)] 01 p0040 N84-10256
Features of determination of low concentrations of oxygen in steel by the electrochemical method
[BLL-M-35212-(5828.4)] 01 p0041 N84-10262
Examination of the electrochemical behaviour of titanium in the LiCl-KCl melt
[BLL-OA-TRANS-3010-(6196.3)] 01 p0042 N84-10273
Hydrogen-evolution monitoring as a measure of steam-generator corrosion
[DE83-900677] 01 p0044 N84-10285
Metallurgical investigation of a cracked low-pressure steam-turbine shaft from an electric utility
[DE83-902304] 01 p0045 N84-10292
A simple mathematical model for heat transfer and its application for continuous type reheating furnaces 01 p0077 N84-10503
Probabilistic assessment of weld quality in steel piping under seismic conditions
[DE83-012053] 01 p0091 N84-10591
Metal-induced embrittlement of high purity 4140 steel by indium or indium-tin eutectic alloy 02 p0192 N84-11250
Microstructure and properties of P/M tool steels
[AD-A130980] 02 p0194 N84-11259
Response of cracks in structural materials to short pulse loads
[AD-A131565] 02 p0231 N84-11519
Fatigue-crack propagation in viscous environments
[DE83-011741] 02 p0232 N84-11520
Research activities in materials and molecular research
[DE83-015005] 03 p0347 N84-12255
Study of chromium-free and chromium-reduced steels
[DE83-016717] 03 p0353 N84-12294
Strain rate effects on ductile/brittle transitions in steels
[DE83-016906] 03 p0355 N84-12306
The analysis of crack growth data with application to trip steel
[AD-A132021] 03 p0389 N84-12535
Formation of structure of low-alloy steel inoculated with rare-earth metals and alkaline-earth metals
[BLL-M-35321] 04 p0497 N84-13258
The electrodeposition of titanium coatings
[BLL-OA-TRANS-3057-(6196.3)] 04 p0497 N84-13260
Galvanic coupling between D6AC steel, 6061-T6 aluminum, Inconel 718 and graphite-epoxy composite material: Corrosion occurrence and prevention
[NASA-TP-2236] 04 p0497 N84-13263
Thermomechanical processing of M-50 steel
[AD-A132272] 04 p0499 N84-13271
Fluidized-bed and salt-bath heat treating (AISI 4130 and 4340 alloy steels)
[DE84-000979] 04 p0502 N84-13290
Measurement of friction and wear on modified surfaces
[AD-A132364] 04 p0544 N84-13583
Approximate linear stability analysis of a model of adiabatic shear-band formation
[DE84-001918] 05 p0656 N84-14318
Aircraft water-based solid film lubricants
[AD-A133732] 05 p0658 N84-14328
Comparison of fracture-toughness measurements from ferritic-steel compact-tension and surface-flawed specimen
[DE84-000895] 06 p0804 N84-15240
Embrittlement of steels due to galvanizing or coating with zinc paint: An investigation of embrittlement in welding or heating operations — liquid metal embrittlement
[AERE-TR-4774] 06 p0805 N84-15244
Integrated evaluation of the quality of steel cable wire
[BLL-M-35267-(5828.4)] 06 p0854 N84-15564
Abrasive properties of ferroalloys
[BLL-M-35416-(5828.4)] 07 p0973 N84-16306
A contribution to the manufacture and characteristics of steel-wire-reinforced aluminum
[NASA-TM-76977] 07 p0974 N84-16310
Fracture-mechanics behavior of neutron-irradiated alloy A-286
[DE84-001467] 07 p0975 N84-16320
Frequency characteristics of spring constants of a suspended transmission line 07 p0982 N84-16361
Characteristics of grindability of P/M high speed steel: Influence of peripheral wheel speed on wheel wear and surface quality 07 p0984 N84-16371
Low-cost stator material for M734 alternators
[AD-A126804] 07 p0997 N84-16484
High strain rate characterization of materials
[AD-A134342] 07 p1016 N84-16593
Tempering kinetics of alloy steels as a function of quench rate and M sub s temperature
[AD-A134806] 08 p1132 N84-17365
Study of the lubrication mechanism of thin film lubricated concentrated steel contacts. The influence of pre-treatment of the steel on the load carrying capacity
[AD-A135067] 08 p1166 N84-17593
Acoustic emission determination of deformation mechanisms leading to failure of naval alloys, volume 1
[AD-A135387] 08 p1171 N84-17626
Acoustic emission determination of deformation mechanisms leading to failure of naval alloys, volume 2
[AD-A135388] 08 p1171 N84-17627
Iron and steel (selected articles)
[AD-A135576] 09 p1282 N84-18376
Atomic absorption spectrophotometric methods for the determination of phosphorous and silicon in steel
[DE84-002826] 09 p1286 N84-18395
Mechanism of lubrication by tricresylphosphate (TCP)
[NASA-TP-2274] 09 p1324 N84-18853
Crack paths and hydrogen-assisted crack growth response in AISI 4340 steel
[AD-A137388] 10 p1459 N84-19528
Characterizations of preheated and non-preheated HY-80 steel weldments by transmission electron microscopy
[AD-A136966] 10 p1480 N84-19537
Detection and performance of defects in aluminum coated steels
[DE84-004175] 10 p1481 N84-19545
Effect of specimen geometry on stable crack growth by nonlinear material behavior
[GKSS-83-E-38] 10 p1483 N84-19554
Development of the texture and plastic anisotropy in steels upon hot rolling, transformation and cold rolling
[BMFT-FB-T-83-219] 10 p1483 N84-19559
Preventative measures to limit stress corrosion cracking in prestressed concrete
[AD-A136665] 10 p1471 N84-19609
Role of microstucture in hydrogen assisted cracking 11 p1631 N84-20657
Component development
[DE84-005829] 11 p1634 N84-20681
Physical metallurgy and alloy design of dual phase steels
[DE84-005182] 11 p1634 N84-20682
High temperature solid oxide electrolytes for research in metallurgical processes and steelmaking 11 p1740 N84-21352
Influence of microplastic deformations on spheroidization of cementite in steel
[BLL-M-35503-(5828.4)] 12 p1795 N84-21711
ESR steel deoxidation and slag practice: Influence on inclusion morphology
[MRL-R-915] 12 p1796 N84-21718
Ion-beam nitriding of steels
[NASA-TM-83599] 12 p1797 N84-21719
Quality and reliability of steel wire ropes
[BLL-M-35461-(5828.4)] 12 p1821 N84-21872

The heat treatment response of thermomechanically processed M-50 steel
[AD-A136571] 13 p1960 N84-22736
Corrosion control through a better understanding of the metallic substrate/organic coating/interface
[AD-A139086] 13 p1961 N84-22739
Measurements of elastohydrodynamic film thickness, wear and tempering behavior of high pressure oxygen turbopump bearings
[NASA-CR-171008] 13 p1997 N84-22960
Thermodynamics and kinetics of the gas phase and pack aluminide coating formation on iron and steel
13 p2049 N84-23291
The neutron induced embrittlement of reactor pressure vessel steels and ferritic alloys
[AD-B080746] 15 p2295 N84-24770
Study on the effects of niobium, vanadium, titanium and/or rare Earth metals on the properties and processing of high-tensile, weldable structural steels
[BMFT-FB-T-83-316] 15 p2295 N84-24775
Status of understanding for gear materials
15 p2342 N84-25061
Middle East Technical University Journal of Pure and Applied Sciences, volume 15, no. 2
15 p2401 N84-25406
The effect of loading rate and temperature on fracture initiation toughness in a low strength steel
15 p2401 N84-25410
Hydrogen attack mechanisms in a 2-1/4 Cr1 Mo welded steel 16 p2464 N84-25789
Cracking threshold on steel used in aeronautical construction: Influence of the environment
[SNIAS-832-551-101] 16 p2465 N84-25797
Random fatigue of steels: Sequence effects during the crack initiation phase
[BMFT-FB-T-84-040] 16 p2466 N84-25804
A parametric study of surface transformation hardening with high-power lasers
[AD-A140160] 16 p2497 N84-26023
Use of refractory coatings to protect metal gainst high-temperature corrosion
[BLL-M-35543-(5828.4)] 17 p2621 N84-26772
Improvement of heat treatment of tubes of steel 15Kh5M
[BLL-M-35545-(5828.4)] 17 p2621 N84-26774
Hydrogen effects on cleavage fracture in fully pearlitic 1080 steel 17 p2621 N84-26776
Technological effects of pressure vessel manufacturing processes on steel properties
[EUR-7614] 17 p2622 N84-26780
Multitechnique studies on fretting fatigue: Influence of surface treatment
[AD-A140812] 17 p2624 N84-26796
Integrated analysis and design of steel frames with interactive computer graphics 17 p2677 N84-27049
Fatigue considerations in view of measured load spectra
[AD-A140221] 17 p2679 N84-27067
The role of traps in the microstructural control of hydrogen embrittlement of steels
[AD-A141249] 18 p2814 N84-27863
Corrosion fatigue crack growth rates of weldments in C1N steel
[AD-A141261] 18 p2814 N84-27864
Helium effects on the swelling of steels
[DE84-008989] 18 p2815 N84-27871
Fracture mechanics characterization of the 15 CDV alloy at temperatures from -50 C to +20 C (welded joints). Summary of test number M4 495400
18 p2816 N84-27875
An AC impedance study of steel in concrete
[AERE-R-11132] 18 p2835 N84-27907
The measurement of residual stress in textured steel using an ultrasonic velocity combination technique
[AERE-R-11115] 18 p2854 N84-28123
The influence of stress on the principal polarisation directions of ultrasonic shear waves in textured steel plates
[AERE-R-11078] 18 p2854 N84-28124
Acoustic emission accompanying phase change in deformed 1H18N9T steel
[ISSN-0206-5658] 19 p2991 N84-28952
Abrasive wear of steel during sliding or rolling
[BLL-CE-TRANS-8003-(9022.09)]
19 p2991 N84-28956
Mechanisms of microstructurally-influenced fatigue crack growth in dual-phase steels
[DE84-008491] 19 p2995 N84-28979
Effects of micronic filtration on turbine engine lubricant deposition
[AD-A141602] 19 p2999 N84-29007
Survey and analysis of materials research and development at selected federal laboratories
[DE84-008904] 20 p3145 N84-29967
Thermomechanical processing and texture development in Ni-Cr-Mo and Mn-Mo-B armor steels
[AD-A142352] 20 p3153 N84-30020
Application of electrochemical and mechanical impedance measurements to corrosion induced failures
[AD-A142468] 20 p3153 N84-30021
J-integral tearing instability analysis for 8-inch diameter ASTM A106 steel pipe
[AD-A142589] 20 p3153 N84-30023
Analysis of localized microstructural changes in dynamically consolidated metal powders
[DE84-006296] 20 p3154 N84-30026
Transmutation of manganese: Substituted steels in STARFIRE
[DE84-010402] 20 p3155 N84-30035
Ductile-brittle transition temperature measurement of temper embrittled Ni-Cr steels by means of small punch tests
[DE84-012833] 20 p3158 N84-30054
Mechanical properties of a shock consolidated steel powder
[DE84-003573] 20 p3158 N84-30056
Environmental assisted fracture of cast and wrought steels in brine
[DE84-011870] 20 p3158 N84-30058
Aeronautical Materials (selected articles)
[AD-A139952] 20 p3159 N84-30063
Preliminary investigation of fatigue crack propagation of 30CrMnSiA steel in salt spray corrosion conditions
20 p3160 N84-30068
The effects of non-metallic inclusions in steel on fatigue properties 20 p3160 N84-30070
Wear behaviour of steel under the action of granular interfacial minerals
[BLL-CE-TRANS-8002-(9022.09)]
21 p3363 N84-31336
Anodic processes and the kinetics of stress-corrosion cracking or corrosion fatigue
[DE84-012911] 21 p3368 N84-31367
Advance in materials technology: Monitor issue number 1
[PB84-196286] 21 p3369 N84-31377
Internal grinding of high-speed steels: Shorter processing times with boron nitride grinding tools
[CSIR-TRANS-1719] 21 p3376 N84-31421
Design of an abrasion test under high stress. Application to the characterization of manganese steel quality assurance
[CETIM-12-D-081] 21 p3415 N84-31659
Influence of choice of steel on forging
[CETIM-1.3K.32.1] 21 p3416 N84-31663
Composition and structure of multicomponent vanadium- and niobium-base coatings
[BLL-M-35657-(5828.4)] 22 p3550 N84-32474
Generalization of results of electro-simulation of temperature of the piece during centrifugal cladding
[BLL-M-35687-(5828.4)] 22 p3551 N84-32479
Influence of microalloying with titanium and boron on cold resistance of structural steel
[BLL-M-35698-(5828.4)] 22 p3551 N84-32483
Economical grinding of steel and sintered carbides using superhard abrasives and high temperature-resistant bonds
[CSIR-TRANS-1744] 22 p3563 N84-32562
Aircraft landing dynamics facility carriage weld test program
[NASA-TM-85802] 22 p3603 N84-32827
Embrittlement of 4340 type steel by liquid lead and antimony and lead-antimony solutions
[AD-A143785] 23 p3718 N84-33567
Clad cast steel strip
[DE84-014245] 23 p3719 N84-33574
Review of LOX Bearing and Seal Materials Tester (BSMT) radial load system
[NASA-CR-171162] 23 p3756 N84-33810
Dependence of rate of growth in aqueous corrosive medium on electrochemical conditions at tip of crack
24 p3871 N84-34530
Explosive welding in the manufacture of titanium shells 24 p3876 N84-34562
Solidification structures grown under induced flow and continuous casting of steel 24 p3883 N84-34599
Optical and other property changes of M-50 bearing steel surfaces for different lubricants and additive prior to scuffing
[NASA-TM-83746] 24 p3888 N84-34620
The stress analysis of a rotating cylinder experiment to determine crack growth in thick section steel
[DE84-701733] 24 p3913 N84-34778

STEEP GRADIENT AIRCRAFT
U V/STOL AIRCRAFT

STEEPNESS
U SLOPES

STEERABLE ANTENNAS
Comparative antenna measurements in real environment: Steerable null antenna at 30 - 76 MHz
[FOA-C-30303-E2] 08 p1146 N84-17459
Design of microwave beam-switching networks
[AD-A137240] 10 p1478 N84-19661
Reactively steered adaptive array (Resaa)
13 p1976 N84-22826
Full versus limited versus no steerability
17 p2693 N84-27155
Autonomous omnidirectional spacecraft antenna system
[NASA-CR-175126] 18 p2832 N84-27960

STEERING
Adaptive arrays for multiple simultaneous desired signals
[AD-A133486] 06 p0624 N84-15373
Strategies using an observer for steering a random motion of a point in a multitarget environment
[CSIR-TWISK-285] 07 p1049 N84-16794
Braking-turning-maneuvering stability of heavy transporters 10 p1512 N84-19997
Time to Line Crossing (TLC): A new method to describe driving performance
[IZF-1983-10] 12 p1867 N84-22165
Open and closed loop steering in a lane change maneuver
[IZF-1983-22] 12 p1867 N84-22167
Optimal control model applications and field measurements with respect to car driving
[IZF-1983-18] 12 p1892 N84-22324
Reactively steered adaptive array (Resaa)
13 p1976 N84-22826
Summaries of doctorate theses — man machine systems 20 p3263 N84-30705
Ion beamlet steering for two-grid electrostatic thrusters
[NASA-CR-174671] 21 p3354 N84-31274
Antenna pattern characteristics of fine-steered pencil beams
[AD-P003516] 21 p3385 N84-31484

STELLAR ACTIVITY
NT FACULAE
NT SOLAR ACTIVITY
NT SOLAR FLARES
NT SOLAR STORMS
NT STARSPOTS
NT STELLAR FLARES
NT SUNSPOTS
H alpha and TiO band observations of RS CVn stars
13 p2069 N84-23410
The K2-Dwarf V471 TAU: A stellar version of solar variability 17 p2779 N84-27647

STELLAR ATMOSPHERES
NT CHROMOSPHERE
NT SOLAR ATMOSPHERE
Self-consistent models for Coulomb heated X-ray pulsar atmospheres
[NASA-TM-85087] 02 p0307 N84-12012
Activities report of the Institute of Astronomy and Astrophysics 03 p0463 N84-13048
Observation of winds in cool stars
03 p0468 N84-13084
An abundance analysis of the cool barium stars
04 p0620 N84-14087
A study of magnetic, line-blanketed model atmospheres 05 p0762 N84-15001
Stellar atmospheric structural patterns
[NASA-SP-471] 09 p1414 N84-19253
Introductory comments on stellar atmospheric structure and its modeling 09 p1414 N84-19254
Speculative-theoretical modeling of the atmosphere enveloping a hypothetical (closed, thermal) star
09 p1414 N84-19255
Empirical-theoretical survey of the variety of peculiarities and anomalies in the atmospheres enveloping actual stars 09 p1414 N84-19256
Characteristics of distinctive regions comprising stellar atmospheres 09 p1415 N84-19257
Observed distinctive radial sequences of the distinctive atmospheric regions comprising stellar atmospheres
09 p1415 N84-19258
Inferences on the thermodynamic characteristics of a star from the observed distinctive radial sequences of the distinctive atmospheric regions comprising that stellar atmosphere 09 p1415 N84-19259
Dynamical relaxation in stellar systems
13 p2072 N84-23426
Cometary nucleus and active regions
13 p2075 N84-23450
A generalized behavioral model for rotating short period comets with spectral orbital elements and axial orientation 13 p2075 N84-23451
Properties of simulated comet mantle
13 p2076 N84-23452

Stellar Spectra and Their Interpretation. 1st conference of the Subcommission No. 2 15 p2421 N84-25540
Mean depths of line formation 15 p2421 N84-25541
Partial frequency redistribution in subordinate lines 15 p2421 N84-25543
Radiative transfer in Roche coordinates 15 p2421 N84-25544
Analysis of MgII lines in algol 15 p2422 N84-25547
A model atmosphere analysis of the Am star 68 Tau 15 p2422 N84-25548
A computer program for calculating non-LTE model stellar atmospheres 15 p2423 N84-25554
Model stellar atmosphere and spectrum computations with minicomputer 15 p2423 N84-25555
A search variability in the UV spectrum of Pi Aquarii and Fe 3 shell lines of Be stars [NASA-CR-173611] 16 p2575 N84-26527
The emission line spectra of cataclysmic variable accretion disks 16 p2576 N84-26533
Numerical radiative transfer in Be disks 16 p2577 N84-26538
Photometric variations of solar-type stars: Results of the Cloudcroft survey 17 p2779 N84-27646
Theoretical studies of the pulsar magnetosphere 21 p3437 N84-31809
IUE spectra of three A0 V stars rotating close to their break-up velocity: HD 119921, HD 129685, HD 181296 24 p3975 N84-35172
Coordinated IUE and ground-based observations of active stars: Flare events on YZ CMi, V 1005 ORI, AD Leo and AR Lac 24 p3975 N84-35177
Spectral analysis of helium poor hot subdwarfs 24 p3976 N84-35181
An analysis of the helium-weak stars HD 144334 24 p3976 N84-35182
Mass loss from the central star of NCG 3242 24 p3977 N84-35194
Models for the active and quiescent regions on the RS CVN-type system 2 Pegasi (HD 224085) 24 p3978 N84-35197
An estimate of V348 Sgr effective temperature 24 p3978 N84-35201

STELLAR COLOR
Catalogue of stellar ultraviolet fluxes. A compilation of absolute stellar fluxes measured by the Sky Survey Telescope (S2/68) aboard the ESRO satellite TD-1 15 p2423 N84-25558

STELLAR COMPOSITION
Line studies of Wolf-Rayet stars: The WN subclass 21 p3522 N84-32311
The nitrogen abundance in WC stars 24 p3977 N84-35192

STELLAR CORES
An X-ray survey of clusters of galaxies with the Einstein Observatory and a study of iron sedimentation in the intracluster gas 10 p1595 N84-20454

STELLAR CORONAS
NT CORONAL LOOPS
NT SOLAR CORONA
Radio emission from solar and stellar coronae 02 p0308 N84-12023
The winds and coronae of early-type stars 03 p0469 N84-13086
X-ray observations of cataclysmic variables 06 p0936 N84-16084
Evidence linking coronal mass ejections with interplanetary magnetic clouds [NASA-TM-82564] 08 p1245 N84-18141
Characteristics of distinctive regions comprising stellar atmospheres 09 p1415 N84-19257
Corona models tested with IUE and Einstein observations 24 p3970 N84-35139

STELLAR DOPPLER SHIFT
U DOPPLER EFFECT
U EXTRATERRESTRIAL RADIATION

STELLAR ENVELOPES
The excitation of SiO in circumstellar envelopes 03 p0462 N84-13041
Stellar atmospheric structural patterns [NASA-SP-471] 09 p1414 N84-19253
Characteristics of distinctive regions comprising stellar atmospheres 09 p1415 N84-19257
Observed distinctive radial sequences of the distinctive atmospheric regions comprising stellar atmospheres 09 p1415 N84-19258
The effect of radiation pressure in nova ejecta 17 p2777 N84-27629
Nova Aquilae 1982: The nature of its dust 18 p2950 N84-28703
The galactic acceleration of ultrahigh energy cosmic rays [DE84-012442] 20 p3320 N84-31060
Study of variable extinction of hot stars with circumstellar dust shells [NASA-CR-173844] 21 p3522 N84-32315
Studies of low-mass star formation with the large deployable reflector [NASA-TM-85960] 21 p3524 N84-32328

STELLAR EVOLUTION
NT STELLAR MASS ACCRETION
Orbital resonances and planetary accretion in the early solar system evolution 02 p0307 N84-12016
Problems of stellar evolution in star clusters of the Magellanic clouds 03 p0483 N84-13051
Large scale galactic shocks and motions of the cloud medium 04 p0620 N84-14089
Some observable indicators of s-process environments [DE84-001720] 05 p0763 N84-15006
Role of the radiation pressure gradient in giant and supergiant star evolution [DE84-001715] 05 p0763 N84-15007
The abundances and evolutionary state of the early R stars 05 p0764 N84-15010
Aperture synthesis observations of star forming regions: Compact H2 regions and masers 06 p0937 N84-16092
Ambipolar diffusion in interstellar clouds: One-dimensional, isothermal collapse 06 p0939 N84-16099
Nucleosynthesis in stellar explosions [DE84-002787] 07 p1090 N84-17087
Millimetar radio astronomy at Onsala (Sweden) 09 p1413 N84-19242
Constraints on stellar evolution from pulsations [DE84-003787] 09 p1415 N84-19261
Some investigations about the Carson opacities [DE84-003785] 09 p1415 N84-19262
Millimeter wavelength aperture synthesis maps of the star-forming region W58 10 p1595 N84-20455
Dynamical relaxation in stellar systems 13 p2072 N84-23426
Physics and chemistry in the primitive solar nebula [MPE-PREPRINT-21] 13 p2091 N84-23547
Infrared polarimetry of young clusters 16 p2572 N84-26505
Neutral carbon in the Egg Nebula (AFGL 2688) [NASA-TM-84360] 16 p2574 N84-26518
Far-IR selected star formation regions [NASA-TM-85955] 16 p2574 N84-26521
The energetics and mass structure of regions of star formation [NASA-TM-85953] 16 p2575 N84-26525
Observational and theoretical studies of rich clusters with multiple subcondensations [NASA-CR-173618] 16 p2575 N84-26528
Search for new water vapor masers in the direction of ROW 19-20, 38 and 48-49 [INPE-3039-TDL/156] 17 p2775 N84-27622
Studies of low-mass star formation with the large deployable reflector [NASA-TM-85960] 21 p3524 N84-32328
Some masses for population 1 and 2 cepheids [DE84-014032] 22 p3677 N84-33311
Cepheid evolution [DE84-014027] 23 p3839 N84-34352
Ultraviolet observations of normal galaxies 24 p3970 N84-35136
Ultraviolet fluxes of blue straggler stars 24 p3974 N84-35165
Spectral analysis of helium poor hot subdwarfs 24 p3976 N84-35181
Optical and ultraviolet observations of FK Comae stars 24 p3978 N84-35198
UV and optical spectroscopy of classical novae during outburst 24 p3979 N84-35202
Optically-thick, highly-variable plasma in interacting binaries 24 p3980 N84-35211
UV and optical spectroscopy of W Serpentis objects 24 p3980 N84-35212

STELLAR FIELDS
U STAR DISTRIBUTION

STELLAR FLARES
NT SOLAR FLARES
Physics of the synchrotron model of cosmic gamma-ray bursts [DE84-000917] 04 p0622 N84-14104
Bright, rapid, highly polarized radio spikes from the M dwarf AD Leo [AD-A136205] 09 p1418 N84-19275
IUE observations of BY Draconis 24 p3975 N84-35176
Coordinated IUE and ground-based observations of active stars: Flare events on YZ CMi, V 1005 ORI, AD Leo and AR Lac 24 p3975 N84-35177

STELLAR GRAVITATION
A model atmosphere analysis of the Am star 68 Tau 15 p2422 N84-25548
Spectral analysis of helium poor hot subdwarfs 24 p3976 N84-35181
An analysis of the helium-weak stars HD 144334 24 p3976 N84-35182
Carbon and nitrogen abundances in field dwarf stars 24 p3988 N84-35236

STELLAR LUMINOSITY
A study of the empirical mass-luminosity diagram for early type stars 04 p0618 N84-14075
The effect of opacity on theoretical models of RR Lyrae stars 04 p0619 N84-14081
Luminosity calibration of low redshift quasars [NASA-CR-175372] 08 p1242 N84-18120
Self and cross tests of astronomical hypothesis and optimal cutoff bias-free nonparametric estimation 09 p1412 N84-19234
An X-ray survey of clusters of galaxies with the Einstein Observatory and a study of iron sedimentation in the intracluster gas 10 p1595 N84-20454
An X-ray survey of variable radio bright quasars [NASA-TM-86094] 14 p2250 N84-24512
Near-infrared surface photometry of barred spiral galaxies 17 p2775 N84-27618
High resolution surface photometry of elliptical galaxies 17 p2776 N84-27625
Interaction of convection and small-scale magnetic fields: Influence on the solar luminosity 17 p2779 N84-27642
Some masses for population 1 and 2 cepheids [DE84-014032] 22 p3677 N84-33311
The structure, internal kinematics and dynamics of open star clusters 23 p3839 N84-34357
Ages of extragalactic intermediate-age star clusters [NASA-CR-173927] 23 p3840 N84-34360
MCG-2-58-22 = Mkn 926. A high luminosity Seyfert galaxy with two distinct broad line components 24 p3972 N84-35150
UV-bright stars in galactic globular clusters, their far-UV spectra and their contribution to the globular cluster luminosity 24 p3974 N84-35184
Flux variations of 88 Her through phase transition from far UV to visual 24 p3976 N84-35184
UV and optical spectroscopy of classical novae during outburst 24 p3979 N84-35202
Dwarf novae through the outburst cycle 24 p3979 N84-35203
The outbursts of dwarf novae 24 p3979 N84-35204
A new outburst of Z Andromedae 24 p3979 N84-35209

STELLAR MAGNETIC FIELDS
NT SOLAR MAGNETIC FIELD
Self-consistent magnetosphere for a static aligned rotator 04 p0619 N84-14085
A study of magnetic, line-blanketed model atmospheres 05 p0762 N84-15001
Magnetic activity in lower main sequence stars 24 p3975 N84-35175

STELLAR MAGNITUDE
Internal calibration of astronomical photographs 09 p1411 N84-19230
Absolute magnitude calibration for red dwarf stars 09 p1411 N84-19231
Documentation for the machine-readable version of the Survey of the Astrographic Catalogue From 1 to 31 Degrees of Northern Declination (Fresneau 1983) [NASA-TM-85569] 13 p2071 N84-23421
Irradiance from stars based on blackbody theory [NASA-TM-82582] 17 p2775 N84-27617
IUE observations of the X-ray binary A0538 66: Recent results on a remarkable recurrent 24 p3981 N84-35221

STELLAR MASS
NT STELLAR GRAVITATION
Associations between coronal mass ejections and interplanetary shocks 03 p0474 N84-13121
A study of the empirical mass-luminosity diagram for early type stars 04 p0618 N84-14075
Narrow-band photometry of faint red stars, 2 [BULL-191] 06 p1243 N84-18126
NGC 2024: Far-infrared and radio molecular observations [NASA-TM-85954] 16 p2575 N84-26524
On the masses of white dwarfs in cataclysmic binaries 21 p3524 N84-32323
Some masses for population 1 and 2 cepheids [DE84-014032] 22 p3677 N84-33311
The determination of frequencies and mass characteristics of binary stars in open clusters 23 p3839 N84-34355
The structure, internal kinematics and dynamics of open star clusters 23 p3839 N84-34357
Stellar winds and their dynamical influence on the interstellar medium 23 p3840 N84-34358

STELLAR MASS ACCRETION
Circinus X-1: A laboratory for studying the accretion phenomenon in compact binary X-ray sources
[NASA-TM-85095] 01 p0165 N84-11083
Self-consistent models for Coulomb heated X-ray pulsar atmospheres
[NASA-TM-85087] 02 p0307 N84-12012
Hydrodynamic simulations of a combined hydrogen, helium thermonuclear runaway on a 10 km neutron star
[DE83-012658] 03 p0463 N84-13047
Models of the hard X-ray spectrum of AM Herculis and implications for the accretion rate
[NASA-TM-86045] 08 p1242 N84-18123
Galactic explosions, cosmic dust invasions, and climatic change 11 p1757 N84-21469
A study of mass accretion in Algol from high resolution IUE spectra 24 p3980 N84-35213
STELLAR MASS EJECTION
Solar-geophysical data number 465, May 1983. Part 2: (Comprehensive reports). Data for November 1982, October 1980 and miscellanea
[PB83-228551] 01 p0165 N84-11081
Solar-geophysical data number 464, April 1983. Part 2: (Comprehensive reports). Data for October 1982 and Miscellanea
[PB83-222497] 02 p0308 N84-12022
Evidence linking coronal mass ejections with interplanetary magnetic clouds
[NASA-TM-82564] 08 p1245 N84-18141
Grain formation in the expanding gas flow around cool luminous stars 16 p2569 N84-26489
Nova Aquilae 1982: The nature of its dust
16 p2572 N84-26504
The nature of AFGL 2591 and its associated molecular outflow: Infrared and millimeter-wave observations
[NASA-TM-85963] 16 p2575 N84-26526
The effect of radiation pressure in nova ejecta
17 p2777 N84-27629
Solar-geophysical data comprehensive reports, February 1984, number 474. Part 2: Data for August 1983, April 1981 and miscellanea. Explanation of data reports issued as number 474 (supplement) February 1984
[PB84-188671] 20 p3320 N84-31077
Solar-geophysical data explanation of reports, February 1984, number 474, supplement
[PB84-188697] 20 p3320 N84-31078
Solar-Geophysical Data, no. 475, March 1984. Part 2: Comprehensive reports. Data for September 1983, May 1981 and miscellanea
[PB84-201516] 22 p3680 N84-33330
Shell ejection phenomena in the hypergiant star P Cygni 24 p3977 N84-35189
Observations of extensive variability in the ultraviolet spectrum of xi Per 24 p3977 N84-35190
Ultraviolet and optical observations of the Cygnus OB2 association: The star 8A 24 p3977 N84-35191
Mass loss from the central star of NGC 3242
24 p3977 N84-35194
Constraints on stellar winds of cataclysmic variables derived from ultraviolet resonance lines
24 p3979 N84-35205
STELLAR MODELS
Linear and nonlinear models of Mira variable stars
02 p0304 N84-11996
The effect of opacity on theoretical models of RR Lyrae stars 04 p0619 N84-14081
A study of magnetic, line-blanketed model atmospheres 05 p0762 N84-15001
Numerical simulations of convectively excited gravity waves
[DE84-001667] 06 p0879 N84-15718
Bias in polarimetric estimators — binary stars
09 p1412 N84-19235
Stellar atmospheric structural patterns
[NASA-SP-471] 09 p1414 N84-19253
Introductory comments on stellar atmospheric structure and its modeling 09 p1414 N84-19254
Empirical-theoretical survey of the variety of peculiarities and anomalies in the atmospheres enveloping actual stars 09 p1414 N84-19256
Computer simulations of gravitational encounters between pairs of binary star systems
10 p1595 N84-20456
Applications for fission product data to problems in stellar nucleosynthesis
[DE84-004819] 10 p1596 N84-20458
Dynamical relaxation in stellar systems
13 p2072 N84-23426
A generalized behavioral model for rotating short period comets with spectral orbital elements and axial orientation 13 p2075 N84-23451
Near-infrared surface photometry of barred spiral galaxies 17 p2775 N84-27618
Photometric studies of heat flow at the photosphere
17 p2779 N84-27641
Interaction of convection and small-scale magnetic fields: Influence on the solar luminosity
17 p2779 N84-27642
Energy flow continuity in solar active regions
17 p2779 N84-27643
Recent ground-based observations of the global properties of the Sun 17 p2779 N84-27644
The analysis of solar models: Neutrinos and oscillations
[NASA-CR-173628] 17 p2780 N84-27652
The NOAA-ERL-ARL solar UV radiation and climate research project program description
[PB84-183292] 20 p3319 N84-31070
Theoretical studies of the pulsar magnetosphere
21 p3437 N84-31609
Observations and analysis of solar flares using H Alpha spectral profiles 21 p3526 N84-32335
Solar Terrestrial Physics: Present and Future
[NASA-RP-1120] 23 p3836 N84-34332
Evolution of solar magnetic flux
23 p3836 N84-34335
Cepheid evolution
[DE84-014027] 23 p3839 N84-34352
Ages of extragalactic intermediate-age star clusters
[NASA-CR-173927] 23 p3840 N84-34360
Ultraviolet and optical observations of metal deficient red giants and chromospheric models
24 p3974 N84-35166
The wind and chromosphere of the Herbig Ae star AB Aur as seen by IUE 24 p3975 N84-35173
Possible identifying characteristics of Be stars
24 p3976 N84-35185
A model of the planetary nebula NGC 3918 based on IUE observations 24 p3978 N84-35195
Models for the active and quiescent regions on the RS CVn-type system 2 Pegasi (HD 224085)
24 p3978 N84-35197
An estimate of V348 Sgr effective temperature
24 p3978 N84-35201
The outbursts of dwarf novae
24 p3979 N84-35204
UV and optical observations of the novalike object V3885 SGR 24 p3979 N84-35207
STELLAR MOTIONS
NT STELLAR ROTATION
Fundamental astrometry today and tomorrow
05 p0634 N84-14165
First, second and third Herstmonceux catalogues of stars for 1950.0
[BULL-189] 08 p1243 N84-18125
Drift analysis: A forgotten technique — statistical techniques in astronomy 09 p1411 N84-19226
Maximum-likelihood estimation of kinematic parameters — stellar motion 09 p1412 N84-19232
Computer simulations of gravitational encounters between pairs of binary star systems
10 p1595 N84-20456
The Motion of Planets and Natural and Artificial Satellites, volume 2 19 p3117 N84-29606
Periodic and quasi-periodic motions in triple stellar systems 19 p3117 N84-29607
STELLAR OCCULTATION
Determination of individual temperatures and luminosities in eclipsing binary star systems
[AD-A134182] 08 p1244 N84-18133
Stratospheric NO and NO2 profiles at sunset from analysis of high-resolution balloon-borne infrared solar absorption spectra obtained at 33 deg N and calculations with a time-dependent photochemical model
[NASA-TM-86295] 20 p3240 N84-30566
STELLAR OSCILLATIONS
NT SOLAR OSCILLATIONS
STELLAR PARALLAX
Fundamental astrometry today and tomorrow
05 p0634 N84-14165
STELLAR RADIATION
NT STELLAR WINDS
Near infrared studies of reflection nebulae
06 p0937 N84-16086
The star splitters: The high energy astronomy observatories
[NASA-SP-466] 12 p1921 N84-22518
Stellar Spectra and Their Interpretation. 1st conference of the Subcommission No. 2 15 p2421 N84-25540
Some problems in calibrating UBV photometry for effective temperature and surface gravity
15 p2422 N84-25546
Catalogue of stellar ultraviolet fluxes. A compilation of absolute stellar fluxes measured by the Sky Survey Telescope (S2/68) aboard the ESRO satellite TD-1
15 p2423 N84-25558
Numerical radiative transfer in Be disks
16 p2577 N84-26538
Optical and infrared polarization as a probe of matter near stars 21 p3524 N84-32324
Coordinated IUE and ground-based observations of active stars: Flare events on YZ CMi, V 1005 ORI, AD Leo and AR Lac 24 p3975 N84-35177
Hot central stars in planetary nebulae
24 p3977 N84-35193
STELLAR ROTATION
NT SOLAR ROTATION
Documentation for the machine-readable version of the revised Catalogue of Stellar Rotational Velocities of Uesugi and Fukuda (1982)
[NASA-TM-85457] 02 p0305 N84-12003
Periods of activity cycles in late-type stars
[NASA-TM-77297] 07 p1091 N84-17094
Cometary nucleus and active regions
13 p2075 N84-23450
A generalized behavioral model for rotating short period comets with spectral orbital elements and axial orientation 13 p2075 N84-23451
On the origin of Be phenomenon
15 p2422 N84-25552
Secular stability of rotating stars
[DE84-014011] 23 p3839 N84-34353
IUE spectra of three A0 V stars rotating close to their break-up velocity: HD 119921, HD 129685, HD 181296
24 p3975 N84-35172
Rotational modulation of spots and plages on RSCVn stars 24 p3978 N84-35196
Optical and ultraviolet observations of FK Comae stars 24 p3978 N84-35198
STELLAR SPECTRA
NT SOLAR SPECTRA
A study of the empirical mass-luminosity diagram for early type stars 04 p0618 N84-14075
Ionization equilibrium in isolated H 2 regions
04 p0619 N84-14086
Visible and infrared studies of cataclysmic variable stars 05 p0762 N84-14997
Line profile variability in winds of OB stars
06 p0936 N84-16085
Optical and X-ray selected samples of quasars: Evolution of the luminosity distributions
06 p0937 N84-16090
Measurements of chromospheric densities and geometrical extensions of late-type giant and super-giant stars
[NASA-CR-175236] 07 p1089 N84-17079
International Ultraviolet Explorer observations of Wolf-Rayet binaries: Wind structures
[NASA-CR-175235] 07 p1089 N84-17081
Stellar Ultraviolet Rocket Research Program — faint object spectrograph
[NASA-CR-175361] 08 p1242 N84-18119
Models of the hard X-ray spectrum of AM Herculis and implications for the accretion rate
[NASA-TM-86045] 08 p1242 N84-18123
An automatic fitting procedure for comparing observed and computed spectral distributions — stellar spectra
09 p1408 N84-19200
Preliminary results of a statistical classification of ultraviolet stellar spectra 09 p1409 N84-19205
Prediction of spectral classification from photometric data. Application to the MK spectral classification and the Geneva photometric system
09 p1410 N84-19221
Cluster analysis of rare earths in stellar spectra
09 p1410 N84-19222
Spectral line receiver for 80-90 GHz designed at the Helsinki University of Technology
09 p1413 N84-19243
Empirical-theoretical survey of the variety of peculiarities and anomalies in the atmospheres enveloping actual stars 09 p1414 N84-19256
H alpha and TiO band observations of RS CVn stars
13 p2069 N84-23410
Problems in the spectroscopy of cool carbon stars
15 p2422 N84-25549
NGC 2024: Far-infrared and radio molecular observations
[NASA-TM-85954] 16 p2575 N84-26524
A search variability in the UV spectrum of Pi Aquarii and Fe 3 shell lines of Be stars
[NASA-CR-173611] 16 p2575 N84-26527
IUE low dispersion spectra reference atlas. Part 1: Normal stars
[ESA-SP-1052-PT-1] 16 p2576 N84-26531
Irradiance from stars based on blackbody theory
[NASA-TM-82582] 17 p2775 N84-27617
Infrared polarimetry of young clusters
18 p2950 N84-28704
New infrared observations of IRS1, IRS3, and the adjacent nebula in the OMC-2 cluster
18 p2950 N84-28705
Line studies of Wolf-Rayet stars: The WN subclass
21 p3522 N84-32311
A spectrophotometric study of temporal variations in the optical spectrum of SS 433 21 p3522 N84-32312

The physical nature of the symbiotic stars
21 p3524 N84-32325
Studies of low-mass star formation with the large deployable reflector
[NASA-TM-85960] 21 p3524 N84-32328
Ultraviolet interstellar absorption toward stars in the small Magellanic cloud 22 p3677 N84-33313
Fourth European IUE Conference
[ESA-SP-218] 24 p3970 N84-35135
Spectral analysis of (very) hot stars: Methods and results 24 p3971 N84-35140
IUE impact on the studies of the Zeta Aur, Algol and W Ser interacting binary systems
24 p3971 N84-35142
Use of high resolution IUE spectra of MG 2 in cool stars to probe the local interstellar medium
24 p3973 N84-35156
Interstellar lines in high resolution IUE spectra of run-away B type stars 24 p3973 N84-35160
The interstellar media in the Scorpius-Ophiuchus region 24 p3973 N84-35161
Ultraviolet and optical observations of metal deficient red giants and chromospheric models
24 p3974 N84-35166
Emission lines in the UV spectrum of alpha Tau
24 p3974 N84-35168
The search for superionization lines in A dwarf stars
24 p3975 N84-35171
The wind and chromosphere of the Herbig Ae star AB Aur as seen by IUE 24 p3975 N84-35173
A UV glimpse of T Tauri stars
24 p3975 N84-35174
IUE observations of BY Draconis
24 p3975 N84-35176
Statistical classification of IUE stellar spectra by the Variable Procrustean Bed (VPB) approach
24 p3975 N84-35178
IUE low dispersion spectra reference atlas
24 p3976 N84-35179
IUE-high resolution of ONV-stars
24 p3976 N84-35180
Spectral analysis of helium poor hot subdwarfs
24 p3976 N84-35181
An analysis of the helium-weak stars HD 144334
24 p3976 N84-35182
Flux variations of 88 Her through phase transition from far UV to visual 24 p3976 N84-35184
An IUE study of Be stars with Fe 2 emissions in the visible 24 p3976 N84-35186
New Fe 2 lines in IUE spectra of stars
24 p3977 N84-35187
The ultraviolet spectrum of stars having optical Fe 2 emission lines 24 p3977 N84-35188
Observations of extensive variability in the ultraviolet spectrum of xi Per 24 p3977 N84-35190
Ultraviolet and optical observations of the Cygnus OB2 association: The star 8A 24 p3977 N84-35191
Optical and ultraviolet observations of FK Comae stars 24 p3978 N84-35198
UV and optical observations of the novalike object V3885 SGR 24 p3979 N84-35207
The spectrum of the symbiotic star CH Cygni in January 1984 24 p3980 N84-35210
Optically-thick, highly-variable plasma in interacting binaries 24 p3980 N84-35211
Egress spectra of the new eclipsing supergiant 22 Vulpeculae 24 p3980 N84-35215
Ultraviolet orbital variability of the intermediate polars — X ray sources 24 p3980 N84-35217
Coordinated X-ray, ultraviolet, optical, and infrared observations of the transient source A0535+26 — X ray source 24 p3981 N84-35219
Standard stars: Automatic line identification of IUE high resolution spectra 24 p3981 N84-35225

STELLAR SPECTROPHOTOMETRY
Infrared measurements of AFGL (Air Force Geophysics Laboratory) sources
[AD-A133553] 06 p0938 N84-16098
Time-varying speckle phenomena in astronomical imaging and in laser scattering
08 p1242 N84-18118
Narrow-band photometry of faint red stars, 2
[BULL-191] 08 p1243 N84-18126
Space research in the Netherlands
09 p1407 N84-19194
Application of multivariate analysis to the parameters of parameters of astrophysical objects
09 p1408 N84-19199
Phase dispersion minimization methods for estimation of periods from unequally spaced sequences of data — astrophysical data 09 p1408 N84-19202
An automatic procedure to reduce a large amount of spectrophotometric data 09 p1409 N84-19212
Statistical determination of the precision obtained by a photometric reduction algorithm
09 p1410 N84-19217
Prediction of spectral classification from photometric data. Application to the MK spectral classification and the Geneva photometric system
09 p1410 N84-19221
Measurements in the presence of nonwhite noise — stellar spectrophotometry 09 p1411 N84-19224
Internal calibration of astronomical photographs
09 p1411 N84-19230
Bias in polarimetric estimators — binary stars
09 p1412 N84-19235
Some problems in calibrating UBV photometry for effective temperature and surface gravity
15 p2422 N84-25546
Spectral analysis of Beta Pegasi
15 p2422 N84-25551
Neutral carbon in the Egg Nebula (AFGL 2668)
[NASA-TM-84360] 16 p2574 N84-26518
Observations of the interstellar ice grain feature in the Taurus molecular clouds 18 p2948 N84-28691
Nova Aquilae 1982: The nature of its dust
18 p2950 N84-28703
Ultraviolet fluxes of blue straggler stars
24 p3974 N84-35165

STELLAR STRUCTURE
Activities report of the Institute of Astronomy and Astrophysics 03 p0463 N84-13048
Do pions condense in neutron-star matter?
[DE84-000463] 04 p0620 N84-14093
A generalized behavioral model for rotating short period comets with spectral orbital elements and axial orientation 13 p2075 N84-23451
NGC 2024: Far-infrared and radio molecular observations
[NASA-TM-85954] 16 p2575 N84-26524
A search variability in the UV spectrum of Pi Aquarii and Fe 3 shell lines of Be stars
[NASA-CR-173611] 16 p2575 N84-26527
Photometric variations of solar-type stars: Results of the Cloudcroft survey 17 p2779 N84-27646
The analysis of solar models: Neutrinos and oscillations
[NASA-CR-173628] 17 p2780 N84-27652
Some masses for population 1 and 2 cepheids
[DE84-014032] 22 p3677 N84-33311
The structure, internal kinematics and dynamics of open star clusters 23 p3839 N84-34357
SS Cygni: Accretion disk morphology
24 p3979 N84-35206

STELLAR TEMPERATURE
Determination of individual temperatures and luminosities in eclipsing binary star systems
[AD-A134182] 06 p1244 N84-18133
A generalized behavioral model for rotating short period comets with spectral orbital elements and axial orientation 13 p2075 N84-23451
Gravito-magnetic origin of the temperature of a stellar corona 15 p2421 N84-25545
Some problems in calibrating UBV photometry for effective temperature and surface gravity
15 p2422 N84-25546
Irradiance from stars based on blackbody theory
[NASA-TM-82582] 17 p2775 N84-27617
Spectral analysis of helium poor hot subdwarfs
24 p3976 N84-35181
An analysis of the helium-weak stars HD 144334
24 p3976 N84-35182
Possible identifying characteristics of Be stars
24 p3976 N84-35185
Hot central stars in planetary nebulae
24 p3977 N84-35193
An estimate of V348 Sgr effective temperature
24 p3978 N84-35201

STELLAR WINDS
Some theoretical studies of the interstellar medium
02 p0306 N84-12006
Multiple transonic solutions and a new class of shock transitions in solar and stellar winds
03 p0468 N84-13083
Observation of winds in cool stars
03 p0468 N84-13084
Theory of winds in late-type evolved and pre-main-sequence stars 03 p0468 N84-13085
The winds and coronae of early-type stars
03 p0469 N84-13086
Stellar winds driven by multi-line scattering
03 p0469 N84-13087
Formation of standing shocks in stellar winds and related astrophysical flows 03 p0469 N84-13088
Line profile variability in winds of OB stars
06 p0936 N84-16085
International Ultraviolet Explorer observations of Wolf-Rayet binaries: Wind structures
[NASA-CR-175235] 07 p1089 N84-17081
Spectral variability in early-type binary X-ray systems
[NASA-TM-86080] 09 p1407 N84-19195
Bright, rapid, highly polarized radio spikes from the M dwarf AD Leo
[AD-A136205] 09 p1418 N84-19275
Theoretical studies of X-ray emission from supernova remnants and other non-equilibrium astrophysical plasmas
[NASA-CR-175394] 10 p1597 N84-20468
Flow of stellar wind past X-radiation source
17 p2645 N84-26920
Stellar winds and their dynamical influence on the interstellar medium 23 p3840 N84-34358
The stellar wind enigma in early type stars: The high-velocity, narrow absorption lines in the UV
24 p3971 N84-35141
The wind and chromosphere of the Herbig Ae star AB Aur as seen by IUE 24 p3975 N84-35173
Observations of extensive variability in the ultraviolet spectrum of xi Per 24 p3977 N84-35190
Mass loss from the central star of NGC 3242
24 p3977 N84-35194
Constraints on stellar winds of cataclysmic variables derived from ultraviolet resonance lines
24 p3979 N84-35205
Evidence for variations in the phase-dependent ionization structure of the stellar wind in Vela X-1
24 p3981 N84-35220
Phase-dependent stellar wind absorptions in interacting Wolf-Rayet binaries 24 p3982 N84-35233

STELLARATORS
Ray-tracing analysis of electron-cyclotron-resonance heating in straight stellarators
[DE83-013854] 01 p0149 N84-10982
Neoclassical transport in a multiple-helicity torsatron in the low-collisionality regime: Strong radial electric-field limit
[DE83-016463] 02 p0296 N84-11941
Constraints on the scale of toroidal-fusion experiments with application to the design of a helical-axis stellarator
[DE83-016812] 03 p0449 N84-12950
Electron-cyclotron-heating experiments in Tokamaks and stellarators
[DE83-017210] 03 p0450 N84-12958
Equilibrium studies for low-aspect-ratio torsatrons
[DE84-002264] 06 p0920 N84-15979
Elimination of stochasticity in stellarators
[DE84-001560] 06 p0921 N84-15985
Modular stellarator reactor: A Fusion power plant
[DE84-002268] 07 p1077 N84-17001
Plasma effects on Heliac configurations: A preliminary investigation
[DE84-002299] 07 p1077 N84-17002
ICRF heating experiments on JIPP T-II
[IPPJ-850] 10 p1580 N84-20352
Free-boundary stability of straight stellarators
[DE84-006272] 14 p2230 N84-24378
Equilibrium calculations for helical axis stellarators
[DE84-010636] 18 p2933 N84-28598
Rapidly convergent algorithms for 3-D tandem and stellarator equilibria in the paraxial approximation
[DE84-009688] 18 p2933 N84-28603
Ring-type support concept for twisted coils (finite element simulation) — stellarators
[IPP-2/271] 20 p3200 N84-30327
Magnetohydrodynamic equilibrium and stability of stellarators
[DE84-010731] 20 p3305 N84-30994

STEMS
Gravitropism in leafy dicot stems
09 p1355 N84-18857

STEP FAULTS
U GEOLOGICAL FAULTS

STEPPING MOTORS
A high resolution stepping motor — for spacecraft applications 09 p1297 N84-18476
The multistate reflectometer
[AD-A139318] 15 p2407 N84-25448
Prediction and analysis of variable reluctance stepmotor drive systems
[NLR-TR-81139-U] 20 p3182 N84-30216
Optimal performance in a step motor controlled robot
23 p3735 N84-33664

STEREOCHEMISTRY
Chemical news (selected articles)
[AD-A140687] 17 p2627 N84-26808

STEREOGRAPHY
U STEREOPHOTOGRAPHY

STEREOPHONICS
Experimental digital stereo sound with terrestrial television: Field tests from Wenvoe, October 1983
[BBC-RD-1983/19] 09 p1298 N84-18483

STEREOPHOTOGRAPHY
Automated stereo perception
[AD-A130645] 01 p0122 N84-10792
Remote sensing for geology 08 p1177 N84-17668
Stereo reconstruction study
[AD-A136208] 12 p1836 N84-21970

Volcanism in the Valles Marineris
13 p2080 N84-23480
Evaluation of UH-1H hover performance degradation caused by rotor icing
[AD-A141252] 18 p2793 N84-27727
Structural-geomorphological interpretation of lineaments detected from space photographs and patterns of mineral distribution 19 p2977 N84-28871
Stereo methods in satellite meteorology
23 p3776 N84-33936
A computational paradigm for three dimensional scene analysis
[AD-A143963] 23 p3816 N84-34196

STEREOSCOPIC PHOTOGRAPHY
U STEREOPHOTOGRAPHY

STEREOSCOPIC VISION
Stereo imaging with spaceborne radars
07 p0988 N84-16400

STEREOSCOPY
NT STEREOPHOTOGRAPHY
NDE techniques for composite laminates
01 p0033 N84-10205
Real-time 3-D X-ray and gamma-ray viewer
[NASA-CASE-GSC-12640-1] 02 p0293 N84-11920
Coincident extraction of line objects from stereo image pairs
[AD-A133892] 05 p0697 N84-14576
Development of a 3-d microscale topography system, phase 1
[AD-A137871] 11 p1633 N84-20677
Development of a 3-d microscale topography system, phase 2
[AD-A137872] 11 p1633 N84-20678
Evaluation of radargrammetric stereo
[AD-A139565] 14 p2141 N84-23835
Preliminary DSRS design
[AD-A136890] 14 p2169 N84-23995
PRISM: A practical real-time imaging stereo matcher
[AD-A142532] 20 p3259 N84-30686
Evaluation of radar stereo viewability by means of a simulation technique 23 p3779 N84-33959
Application of quantitative microscopy to ceramics
[NASA-TM-77420] 24 p3688 N84-34618

STEREOTELEVISION
Preliminary experience with a stereoscopic video system in a remotely piloted aircraft application
[NASA-TM-84909] 13 p1931 N84-22557

STERILIZATION
NT HOUSEKEEPING (SPACECRAFT)
NT SPACECRAFT STERILIZATION
Sterile devices: A GMP (Good Manufacturing Practices) workshop manual
[PB83-226563] 01 p0061 N84-10400
Influence of variable magnetic field on bactericidal effect of ionizing radiation 07 p1043 N84-16765

STERILIZATION EFFECTS
NT CHEMICAL EFFECTS
NT DECONTAMINATION
NT THERMAL DEGRADATION

STERNS
U AFTERBODIES

STEROIDS
NT ALDOSTERONE
NT CHOLESTEROL
NT CORTICOSTEROIDS
NT CORTISONE
Insulin and cortisol improve heat tolerance in isolated perfused rat liver
[AD-A133362] 07 p1042 N84-16758
Sex steroids do not affect muscle weight, oxidative metabolism or cytosolic androgen reception binding of functionally overloaded rat Plantaris muscles
[NASA-CR-173630] 17 p2739 N84-27394
Stress biochemistry: Non-invasive measurement techniques in military subjects
[AD-A141598] 19 p3065 N84-29447

STIFF STRUCTURES
U RIGID STRUCTURES

STIFFENING
Metal matrix composite structural panel construction
[NASA-CASE-LAR-12807-1] 02 p0187 N84-11214
Buckling loads of stiffened panels subjected to combined longitudinal compression and shear: Results obtained with PASCO, EAL, and STAGS computer programs
[NASA-TP-2215] 07 p1015 N84-16585
Skin-stiffener interface stresses in composite stiffened panels
[NASA-CR-172261] 09 p1330 N84-18681
POSTOP: Postbuckled open-stiffener optimum panels, user's manual
[NASA-CR-172260] 09 p1330 N84-18682
A study of the stiffened tubular joints using finite element method 17 p2679 N84-27061
Strength of composite beams with eccentric, reinforced, rectangular web openings 17 p2679 N84-27063

STIFFNESS
Approach to establishing the effect of aeroelasticity on aerodynamic characteristics of the space shuttle orbiter
01 p0021 N84-10133
Sharp PC-1500 pocket computer solutions to composite materials formulas
[AD-A130421] 01 p0031 N84-10193
Structure and properties of polyethylene
[PB83-243931] 02 p0202 N84-11316
Effects of rigid inclusions on wave propagation
[AD-A131386] 02 p0209 N84-11386
An interactive computer program for analysis of ultrasonic modulus data on anistropic materials
[NPL-DMA(A)-68] 03 p0388 N84-12526
Lecture notes for contact-impact algorithms for large-deformation finite-element analysis
[DE83-013039] 03 p0426 N84-12789
Stability, vibration and passive damping of partially restrained imperfect columns
[NASA-TM-85697] 04 p0548 N84-13608
Static and dynamic stiffness reduction of graphite/epoxy composite laminates under fatigue loading
06 p0797 N84-15194
Stiffness changes in unidirectional composites caused by crack systems
[CA-8311] 06 p0798 N84-15198
Acoustical modes of arbitrary volumes using NASTRAN transient heat transfer RF9 06 p0859 N84-15597
An alternative method of analysis for base accelerated dynamic response in NASTRAN
06 p0859 N84-15598
An investigation of the use of iterative linear equation solvers in codes for large stiff systems of ODE's
[AD-A133189] 06 p0901 N84-15845
Stiffness properties for dynamic modeling of composite graphite-epoxy cylindrical orthotropic shells
06 p0932 N84-16054
A simple approach to determination of stiffness characteristics of unidirectional composites
[NASA-TM-77086] 07 p0967 N84-16263
The stiffness torque and thermal conductance of thin-sector four-point contact ball bearings for use in spacecraft mechanisms 09 p1295 N84-18465
Shock and seismic response spectra in design problems 10 p1506 N84-19856
Investigation of the dynamic properties of an elastomer bush
[BU-283] 15 p2255 N84-24543
Vibration Control Of Space Structures VCOSS B: Momentum exchange and truss dampening
[AD-A139910] 15 p2281 N84-24701
Panasonic HR-1800 hand-held computer solutions to composite materials formulas
[AD-A139798] 15 p2391 N84-25352
Threadwise analysis of woven fabric composites
[NAL-TR-792T] 16 p2470 N84-25832
Creep deformation measurement of polymer strips after buckling by Moire method
[NAL-TR-789] 16 p2501 N84-26055
A study of stiffness, residual strength and fatigue life relationships for composite laminates
[NASA-CR-172211] 20 p3146 N84-29978
Interactive aircraft flight control and aeroelastic stabilization
[NASA-CR-173866] 21 p3344 N84-31214
Strength and stiffness of AISC type 2 steel frames
21 p3416 N84-31666
A finite element model for the analysis and optimal design of beams and plates with variable flexural rigidity
21 p3417 N84-31668
Development of in situ stiffness properties for shuttle booster filament wound case
[NASA-TP-2377] 23 p3711 N84-33521
Flexural support member having a high ratio of lateral-to-axial stiffness
[DE84-011104] 23 p3761 N84-33839

STIFFNESS MATRIX
Vibration control of large linear quadratic symmetric systems
[NASA-CR-174536] 01 p0093 N84-10608
A thin-walled beam finite element
[TT-8302] 03 p0425 N84-12779
New elements for analysis of space frames with tapered members 05 p0695 N84-14561
On differential sensitivity analysis of structural systems
[REPT-29.4.155/NT] 07 p1017 N84-16596
Matrix-free methods in the solution of stiff systems of ODE's
[DE84-003361] 08 p1221 N84-17974
Numerical methods for stiff two-point boundary value problems
[AD-A136427] 09 p1375 N84-18981
Geometrically nonlinear analysis of beam-in-space structures
[MITT-26] 12 p1827 N84-21914
Linear and nonlinear finite elements
[AD-A138468] 12 p1895 N84-22341
The inclusion of flexible joints in the stiffness method
[TT-8401] 18 p2854 N84-28122
Formulation of stiffness matrices for elastic buckling of thin-walled open section prismatic columns
[TT-8402] 20 p3204 N84-30353
Automatic finite element generators
21 p3420 N84-31695
Stability and convergence of underintegrated finite element approximations 21 p3420 N84-31696
Stability analysis of elastic-plastic rectangular plate with opening 24 p3958 N84-35062

STIMULANTS
NT ATROPINE

STIMULATED EMISSION
NT WATER MASERS
The characteristics of OH/IR objects, infrared stars with OH maser emission
[IA-PUBL-95] 01 p0164 N84-11078
Single-pulse coherent Raman spectroscopy in shock-compressed benzene
[DE83-014140] 02 p0219 N84-11433
Observations of stimulated electromagnetic emissions during ionospheric heating experiments
05 p0635 N84-14179
Electron beam experiments aboard the Space Shuttle
05 p0638 N84-14195
Wavelength scaling of the two plasmon decay and stimulated Raman scattering instabilities
[DE84-008934] 18 p2847 N84-28077
Study of emission spectrum of tea CO2 lasers with intracavity absorber 21 p3486 N84-32094
Measurement of the transverse mode excitation in the stimulated emission of the ACO free electron laser
[AD-A143449] 22 p3601 N84-32808

STIMULATED EMISSION DEVICES
NT ARGON LASERS
NT ATMOSPHERIC LASERS
NT CARBON DIOXIDE LASERS
NT CARBON MONOXIDE LASERS
NT CHEMICAL LASERS
NT CONTINUOUS WAVE LASERS
NT DF LASERS
NT DYE LASERS
NT EXCIMER LASERS
NT FREE ELECTRON LASERS
NT GALLIUM ARSENIDE LASERS
NT GAS LASERS
NT GASDYNAMIC LASERS
NT GLASS LASERS
NT HCN LASERS
NT HELIUM-NEON LASERS
NT HF LASERS
NT HIGH POWER LASERS
NT HYDROGEN MASERS
NT INFRARED LASERS
NT INJECTION LASERS
NT INTERSTELLAR MASERS
NT IODINE LASERS
NT KRYPTON FLUORIDE LASERS
NT LASERS
NT LIQUID LASERS
NT MASERS
NT METAL VAPOR LASERS
NT NEODYMIUM LASERS
NT NITROGEN LASERS
NT NOVA LASER SYSTEM
NT PULSED LASERS
NT Q SWITCHED LASERS
NT RARE GAS-HALIDE LASERS
NT RING LASERS
NT RUBY LASERS
NT SEMICONDUCTOR LASERS
NT SHIVA LASER SYSTEM
NT SOLAR-PUMPED LASERS
NT SOLID STATE LASERS
NT TEA LASERS
NT TRAVELING WAVE MASERS
NT TUNABLE LASERS
NT TWO-WAVELENGTH LASERS
NT ULTRASHORT PULSED LASERS
NT ULTRAVIOLET LASERS
NT WATER MASERS
NT WAVEGUIDE LASERS
NT X RAY LASERS
NT XENON CHLORIDE LASERS
NT YAG LASERS
Experiments to study the feasibility of making an X-ray laser at the Novette laser facility
[DE83-015615] 03 p0360 N84-12476
The Nova laser assurance-management system
[DE83-018188] 04 p0542 N84-13568
Measurements of CARS intensity in hydrogen molecule behind shock waves 07 p0984 N84-16375

Investigations on the lock-in problem and the readout technique of laser gyros
[ESA-TT-773] 16 p2496 N84-26014
Efficient forward conversion in a Raman generator
[DE84-007466] 20 p3194 N84-30265
Chemical lasers 21 p3486 N84-32093
Multifrequency emission from submillimeter lasers 21 p3487 N84-32096

STIMULATION
NT AUDITORY STIMULI
Neuronal adaptive mechanisms underlying intelligent information processing
[AD-A133694] 06 p0689 N84-15776
Mapping the acid stimulation in the Beowawe geothermal field using surface electrical potentials
[DE84-004995] 11 p1672 N84-20908
Analysis of reward functions in learning: Unconscious information processing: Noncognitive determinants of response strength
[AD-A144152] 24 p3937 N84-34920

STIRLING CYCLE
Efficiency terms for Stirling-engine systems
[DE83-014670] 02 p0229 N84-11505
Review of Stirling-engine mathematical models
[DE83-016454] 02 p0301 N84-11974
Dynamic analysis of the fluidyne
[DE83-017283] 03 p0384 N84-12500
Effects of pressure-drop correlations on Stirling-engine predicted performance
[DE83-017279] 03 p0384 N84-12501
Revised isothermal analysis program for Stirling engines
[DE83-017276] 03 p0384 N84-12504
Stirling-engine heat-actuated heat pump
[DE83-017137] 04 p0537 N84-13529
Parametric testing and evaluation of a free-piston Stirling engine/linear-compressor system
[DE83-017282] 04 p0545 N84-13580
Stirling engine patents: International patent inventory
[DE84-002378] 04 p0545 N84-13582
Downsizing assessment of automotive Stirling engines
[NASA-TM-83468] 05 p0761 N84-14989
Evaluation of CO2 and CO dopants in hydrogen to reduce hydrogen permeation in the Stirling engine heater head tube alloy CG-27
[NASA-TM-83535] 06 p0805 N84-15246
A cryocooler for applications requiring low magnetic and mechanical interference 06 p0818 N84-15333
An approach to optimization of low-power Stirling cryocoolers 06 p0818 N84-15334
Regeneration efficiency, shuttle heat loss and thermal conductivity in epoxy-composite annular gap regenerators from 4K to 80K 06 p0818 N84-15335
A 10 deg K triple-expansion Stirling-cycle cryocooler 06 p0819 N84-15336
Split-Stirling-cycle displacer linear-electric drive 06 p0820 N84-15343
Computer program for analysis of split-Stirling-cycle cryogenic coolers 06 p0820 N84-15344
A magnetically suspended linearly driven cryogenic refrigerator 06 p0820 N84-15345
Analysis of a high-frequency Stirling Cycle compressor for cryogenic cooling in space
[NASA-TM-85066] 06 p0852 N84-15555
Stirling engines with controlled evaporation of a two-phase two-component working fluid
[DE83-017284] 06 p0853 N84-15560
Report to Congress on the Automotive Technology Development Program
[DE84-002148] 07 p1012 N84-16566
Free-piston Stirling engine experimental program: Part 1. Baseline test summary
[DE84-003659] 07 p1012 N84-16567
Considerations on the external combustion system of the Stirling hot gas engine
[NASA-TM-77026] 08 p1123 N84-17302
Automotive Stirling engine development program
[NASA-CR-168205] 08 p1242 N84-18117
Report to Congress on the Automotive Technology Development Program
[DE84-004097] 09 p1325 N84-18660
Free-piston Stirling engine experimental program: Part 2. An evaluation of loss mechanisms
[DE84-003658] 09 p1325 N84-18661
Technical and economic feasibility of Stirling cycle industrial heat pumps
[DE84-005486] 11 p1653 N84-20793
Stirling engine applications study
[PB84-148055] 12 p1823 N84-21888
Overview of NASA Lewis Research Center free-piston Stirling engine activities
[NASA-TM-83649] 12 p1921 N84-22512
Comparison of free-piston Stirling engine model predictions with RE1000 engine test data
[NASA-TM-83650] 14 p2249 N84-24509
Theoretical analysis of a kinematic Stirling-cycle heat pump for space conditioning applications
[DE84-010240] 15 p2344 N84-25072
Creep-rupture behavior of candidate Stirling engine alloys after long-term aging at 760 deg C in low-pressure hydrogen
[NASA-TM-83676] 16 p2464 N84-25793
Gas-fired duplex free-piston Stirling refrigerator
[PB84-171537] 17 p2639 N84-26884
The kinematic Stirling engine as an energy conversion subsystem for paraboloidal dish solar thermal plants
[NASA-CR-173724] 18 p2870 N84-28218
Proceedings of the Fifth Parabolic Dish Solar Thermal Power Program
[NASA-CR-173745] 18 p2871 N84-28224
Overview of advanced Stirling and gas turbine engine development programs and implications for solar thermal electrical applications 18 p2872 N84-28231
SPIKE-2: A practical Stirling engine for kilowatt level solar power 18 p2873 N84-28239
Stirling module development overview 18 p2873 N84-28240
Parabolic dish Stirling module 18 p2873 N84-28241
United Stirling's solar engine development: The background for the Vanguard engine 18 p2873 N84-28242
Testing of the United Stirling 4-95 solar Stirling engine on test bed concentrator 18 p2873 N84-28243
Vanguard concentration 18 p2873 N84-28244
Recent advances in design of low cost film concentrator and low pressure free piston Stirling engines for solar power 18 p2875 N84-28253
The base engine for solar Stirling power 18 p2875 N84-28254
Creep-rupture behavior of candidate Stirling engine iron superalloys in high-pressure hydrogen. Volume 2: Hydrogen creep-rupture behavior
[NASA-CR-174705] 19 p2992 N84-28981
Oxidation and corrosion resistance of candidate Stirling engine heater-head-tube alloys
[NASA-TM-83609] 19 p2992 N84-28982
Advanced high temperature materials for the energy efficient automotive Stirling engine
[NASA-TM-83659] 19 p2992 N84-28983
Dynamic property studies of Sterling engines
[NASA-TM-77719] 19 p3031 N84-29225
Nonlinear analysis of Stirling engine thermodynamics
[DE84-013493] 21 p3507 N84-32219
Automotive Stirling engine development program
[NASA-CR-174822] 21 p3521 N84-32305
SEAMOPT: Sterling engine optimization code
[DE84-012098] 22 p3605 N84-32840
Automotive Stirling Engine Development Program. RESD summary report
[NASA-CR-174674] 22 p3677 N84-33307
Evaluation of candidate Stirling engine heater tube alloys after 3500 hours exposure to high pressure doped hydrogen or helium
[NASA-TM-83782] 24 p3883 N84-34603
Heat transfer characteristics of regenerator matrix (case of packed wire gauzes)
[NASA-TM-77448] 24 p3899 N84-34693

STIRRING
Measures for the improvement of the continuous casting procedure (electromagnetic stirring)
[BMFT-FB-T-83-138] 02 p0207 N84-11348

STOCHASTIC PROCESSES
NT MARKOV CHAINS
NT MARKOV PROCESSES
NT RANDOM PROCESSES
NT RANDOM WALK
Simulation of non-Markovian systems
[AD-A130637] 01 p0133 N84-10871
Research initiation: Aggregated hierarchical control
[PB83-226761] 01 p0135 N84-10887
Speeds: A new technique for the analysis and optimization of queueing networks
[PB83-228951] 01 p0137 N84-10901
Mean-square optimal, full-order compensation of structural systems with uncertain parameters
[AD-A131276] 02 p0281 N84-11841
Robust prediction and interpolation for Vector stationary processes
[AD-A130973] 02 p0284 N84-11859
Tests for an increasing trend in the intensity of a Poisson process: A power study
[AD-A131213] 02 p0285 N84-11867
Tests for and against trends among Poisson intensities
[AD-A131212] 02 p0285 N84-11868
Evaluation of the stochastic drift of rate integrating gyros as preparation for the analysis of laser gyro drift measurements
[DFVLR-MITT-83-04] 03 p0376 N84-12449
First passage times in stochastic differential equations of mathematical physics and engineering
[AD-A131705] 03 p0417 N84-12728
An iterated logarithm law result for extreme values from Gaussian sequences
[AD-A129559] 03 p0427 N84-12796
The effects of small noise on implicitly defined non-linear dynamical systems
[AD-A131632] 03 p0428 N84-12808
The amplitude density function and high-resolution frequency analysis of time series
[AD-A132468] 04 p0592 N84-13906
Active control of large flexible space structures 05 p0644 N84-14235
Fault detection using abstracted models of finite-state machines 05 p0721 N84-14724
SPECAN (Spectral Analysis): A program in ACSL for stochastic time series analysis
[AD-A133719] 05 p0728 N84-14777
Convex-ordering among functions, with applications to reliability and mathematical statistics
[AD-A132796] 05 p0736 N84-14833
Development and perturbation analysis of model stochastic equations for global circulation 06 p0683 N84-15743
An algorithm for detecting a change in stochastic process
[AD-A134104] 06 p0900 N84-15842
Stationary stochastic processes — spectrum analysis
[ESA-TT-812] 06 p0905 N84-15875
Statistical properties of an integrated stationary stochastic process
[AD-A134180] 07 p1067 N84-16924
Estimating critical path and arc probabilities in stochastic activity networks
[AD-A134255] 07 p1067 N84-16925
Asymmetric Wiener control
[AD-A134531] 07 p1067 N84-16926
Chaos and order — stochastic processes in dynamical systems
[MC-TW-243/83] 07 p1067 N84-16930
Nonexistance of finite dimensional filters for conditional statistics of the cubic sensor problem
[MC-BW-178/83] 07 p1067 N84-16931
On the weak finite stochastic realization problem
[MC-BW-184/83] 07 p1067 N84-16932
Asynchronous discrete control of continuous processes
[AD-A135257] 08 p1215 N84-17930
Algorithms, modeling and estimation for linear systems
[AD-A135134] 08 p1218 N84-17951
Linear and nonlinear filtering and related inverse scattering problems
[AD-A135175] 08 p1219 N84-17954
A stochastic network formulation for performance assessment and life-cycle modeling in complex system design
[AD-A135337] 08 p1219 N84-17960
Estimation for infinite dimensional Ornstein-Uhlenbeck processes
[AD-A135372] 08 p1220 N84-17961
Identification of a class of filtered Poisson processes
[AD-A134970] 08 p1221 N84-17969
Robust procedures for communication data
[AD-A136540] 09 p1299 N84-18493
Wiener-Poisson control problems
[AD-A135843] 09 p1372 N84-18956
Infinite dimensional stochastic differential equation models for spatially distributed neurons
[AD-A136507] 09 p1376 N84-18988
Proceedings of the 12th Conference on Stochastic Processes and Their Applications, Ithaca, N.Y., 11-15 Jul. 1983
[AD-A136826] 09 p1376 N84-18991
Error measurement of a deterministic approximation for stochastic production planning problem
[INPE-2768-PRE/341] 09 p1381 N84-19017
Research in stochastic processes
[AD-A136222] 09 p1381 N84-19018
Average run lengths of an optimal method of detecting a change in distribution
[AD-A136385] 09 p1381 N84-19019
Estimation and reconstruction for stochastic processes and deterministic functions
[AD-A136571] 09 p1382 N84-19024
A stochastic model for the Man-Machine-Soil-Environment System (MMSES) and the influence of vibrations 10 p1512 N84-19895
Mathematical theories, numerical investigations — geodesy 10 p1519 N84-19949
On equivalence between optimal stochastic control and open-loop feedback control 10 p1567 N84-20264
A single server queue with mixed types of interruptions: Application to the modeling of checkpointing and recovery in a transactional system
[EUT-83-E-138] 10 p1574 N84-20315

Reliability and maintainability assessment factors for reliable fault-tolerant systems 11 p1616 N84-20574
Algorithms for output feedback, multiple-model, and decentralized control problems 11 p1617 N84-20583
Harmony theory: A mathematical framework for stochastic parallel processing [AD-A137683] 11 p1714 N84-21178
Randomized estimators for time integrals [AD-A137921] 11 p1714 N84-21180
Stationary stochastic asymmetric control [AD-A137565] 11 p1717 N84-21201
Research in stochastic processes [AD-A137736] 11 p1717 N84-21202
The numerical solution of three stochastic differential games [CSIR-TWISK-292] 11 p1718 N84-21205
Chemical application of diffusion quantum Monte Carlo [DE84-005173] 11 p1746 N84-21393
A stochastic method in hydraulic design of open channels [PREPRINT-790] 12 p1817 N84-21845
Modeling climatology of areal coverage [AD-A138276] 12 p1860 N84-22120
Thermodynamic model for a central receiver of a solar plant with partial shading of the heliostat field [ESA-TT-807] 13 p2010 N84-23034
Geometric bounds on the Ornstein-Uhlenbeck velocity process [CTH-MATH-1983-17] 13 p2037 N84-23212
Stochastic dynamical systems with a cyclic structure [MC-TW-247/83] 13 p2037 N84-23214
A framework for the probabilistic analysis of hierarchial planning systems [MC-BW-180/83] 13 p2037 N84-23216
On the control of a linear stochastic system with finite horizon [AD-P002949] 14 p2198 N84-24189
Estimating time averages via randomly-spaced observations [AD-A139315] 14 p2214 N84-24295
Regular and stochastic motions of charged particles in electrostatic waves [IPF-83-7] 14 p2223 N84-24341
Stochastic simulation of creep behavior 15 p2316 N84-24899
Line formation in turbulent media 15 p2421 N84-25542
Mathematical models of photogrammetric point determination 16 p2504 N84-26070
Stochastic models for point manifolds 16 p2504 N84-26072
Detection of errors in the functional adjustment model 16 p2505 N84-26074
Conference on Vector Calculators, Winter Quarter 1983 16 p2548 N84-26355
Failure times and optimal stopping rules of generalized shock models 16 p2552 N84-26372
Stochastic modeling of EDM with a view to off-line optimization [PB84-162296] 17 p2639 N84-26885
Some characteristics of radiation field in medium with fluctuating optical parameters 17 p2699 N84-27192
Seismicity as stochastic process with physical parameters 17 p2700 N84-27203
Ray trajectories in stochastic media with linear dependence of deterministic velocity component on depth 17 p2702 N84-27211
Asymptotic formulas for distribution moments in solution of radiation transfer equation in stochastic medium 17 p2708 N84-27243
The weak stochastic realization problem for discrete-time counting processes [MC-BW-191/83] 17 p2761 N84-27532
Invariance properties of the conditional independence relation [MC-BW-193/83] 17 p2761 N84-27533
Optimal control of partially observable stochastic systems with an exponential-of-integral performance index [MC-BW-194/83] 17 p2761 N84-27534
Stochastic bounds on distributions of optimal value functions with applications to PERT, network flow and reliability [REPT-81] 17 p2771 N84-27593
Theory and experiments on chemical instabilities [AD-A140947] 18 p2810 N84-27841
Structure of quasi-hyperbolic stochasticity in inertial self-excited oscillator 18 p2823 N84-27923
Optimal and suboptimal estimation of nonlinear stochastic systems [AD-A140929] 18 p2925 N84-28546
Status report on asymptotic methods for the analysis, estimation, and control of stochastic dynamic systems [AD-A140931] 18 p2925 N84-28547
Subgradient methods in deterministic and stochastic optimization [AD-A141216] 18 p2926 N84-28556
An iterative method for restoring noisy blurred images [AD-A142201] 19 p3016 N84-29122
Stochastic models for common failures of components [AD-A141490] 19 p3033 N84-29237
The duality between expected utility and penalty in stochastic linear programming [AD-A141393] 19 p3075 N84-29513
Random rays, geometric acoustics, and the parabolic wave equation [AD-A141398] 19 p3083 N84-29568
The exit problem for a stochastic dynamical system in a domain with almost everywhere characteristic boundaries [CWI-AM-R8403] 19 p3092 N84-29635
Linear and nonlinear filtering and stochastic control [AD-A142229] 19 p3093 N84-29645
Research in the areas of stochastic control under partial observations, nonlinear filtering, large deviations for nearly deterministic processes, and transition and invariant densities for nearly deterministic diffusions [AD-A142191] 19 p3115 N84-29791
State estimation and control of conditionally linear systems [AD-A142455] 20 p3281 N84-30826
Input-output parametric models for nonlinear systems. Part 2: Stochastic nonlinear systems [RR-252-PT-2] 20 p3283 N84-30845
Theory and applications of random fields [AD-A142346] 20 p3283 N84-30847
Asymmetric Weiner-Poisson control [AD-A142452] 20 p3283 N84-30848
Stochastic quantization: Stabilizing quantum models [REPT-80] 20 p3312 N84-31032
Attitude determination using strapdown inertial sensors and adaptive estimation [INPE-3180-PRE/545] 21 p3327 N84-31106
Investigation and appreciation of optimal output feedback. Volume 1: A convergent algorithm for the stochastic infinite-time discrete optimal output feedback problem [NASA-CR-3828] 21 p3344 N84-31217
Investigation, development and application of optimal output feedback theory. Volume 2: Development of an optimal, limited state feedback outer-loop digital flight control system for 3-D terminal area operation [NASA-CR-3829] 21 p3344 N84-31218
Resource contention, synchronization, and information structure in distributed systems [AD-A143037] 21 p3518 N84-32287
TP2 orderings [AD-A143434] 22 p3648 N84-33132
The 2-on-1 stochastic duel [AD-A143679] 23 p3820 N84-34224
Research on self-generated stochastic motion [AD-A144093] 23 p3820 N84-34225
Stochastic control of pitch motion of satellites using stabilizing flaps [INPE-3235-PRE/584] 24 p3859 N84-34458
Operator alertness/workload assessment using stochastic model-based analysis of myoelectric signals [AD-A144535] 24 p3937 N84-34921

STOCKPILING
Priorities for detailed quality assessments of the National Defense Stockpile nonfuel materials [NMAB-403] 13 p2006 N84-23011

STOICHIOMETRY
Auger and depth profile analysis of synthetic crystals for dispersion of soft X-rays — tungsten carbides [DE83-015257] 02 p0293 N84-11918
Oxygen insufficiency and energy failure in brain: Uncoupling of oxidative phosphorylation at low oxygen concentration 05 p0714 N84-14681
Progress in polycrystalline thin-film solar cells [DE83-012131] 06 p0875 N84-15691
Low cost, sprayed CuInSe2 solar cell research [DE84-005339] 10 p1530 N84-20023
Studies of coercive force of permanent magnet materials [AD-A138123] 12 p1898 N84-22360
Analytical fuel property effects: Small combustors 14 p2108 N84-23639
Flame propagation in heterogeneous mixtures of fuel drops and air [NASA-CR-174644] 14 p2131 N84-23775
Stoichiometric CO reduction by supported metal carbonyls [PB84-175025] 16 p2474 N84-25862
Sulfone-ester polymers containing pendent ethynyl groups [NASA-CASE-LAR-13316-1] 19 p2996 N84-28987
Low cost acetylene terminated polymers [AD-A140040] 19 p2998 N84-28996
Combustion of redox mixes in the Through Bulkhead Initiator (TBI) configuration [SNIAS-841-422-115] 21 p3363 N84-31332
Phase transformations in nearly stoichiometric nickel-manganese alloys 21 p3364 N84-31340
Theory of vorticity generation by shock wave and flame interactions [AD-A144432] 24 p3880 N84-34582
Investigation of rapidly solidified Ni3Al-based alloys [AD-A144174] 24 p3883 N84-34604

STOKES FLOW
Some remarks on the creeping flow of the second grade fluid [AD-A132806] 05 p0681 N84-14473

STOKES LAW (FLUID MECHANICS)
Growth and characterization of metal oxide whiskers for aerosol filtration [DE84-011049] 20 p3310 N84-31021

STOKES LAW OF RADIATION
Shock front pumped stokes and anti-stokes reflectivity contributions [AD-A139134] 14 p2145 N84-23857

STOL AIRCRAFT
U SHORT TAKEOFF AIRCRAFT

STOMACH
Human stomach motor and evacuatory functions during antiorthostatic hypokinesia 20 p3253 N84-30649

STONES (ROCKS)
U ROCKS

STONY METEORITES
NT ACHONDRITES
NT ALLENDE METEORITE
NT CARBONACEOUS CHONDRITES
NT CHONDRITES
NT TEKTITES
Model for GCR-particle fluxes in stony meteorites and production rates of cosmogenic nuclides [NASA-CR-173923] 22 p3679 N84-33321

STOPPING
Ion stopping in heated targets [DE83-017800] 03 p0447 N84-12941
Termination strategies for Newton iteration in full multigrid methods [MC-NW-159/83] 07 p1066 N84-16921
A stopping rule for a multi-person cooperative game [TR-87] 08 p1222 N84-17981
Braking-turning-maneuvering stability of heavy transporters 10 p1512 N84-19897
Study of potential standardization of digital freeze frame video codecs [AD-A141278] 18 p2829 N84-27962
Flight termination receiver catalog [AD-A144155] 24 p3894 N84-34657

STOPPING POWER
Beam-target interaction of intense ion beams: Theory and experiment [DE83-018264] 03 p0436 N84-12858
A study of physical processes for space radiation protection [NASA-CR-173183] 07 p1071 N84-16954
Intermediate energy proton stopping power for hydrogen molecules and monoatomic helium gas 07 p1071 N84-16955
Low-energy proton stopping power of N2, O2 and water vapor and deviations from Bragg's rule 07 p1071 N84-16956
A theoretical model for calculation of molecular stopping power 07 p1071 N84-16957
Neon transport in selected organic composites — stopping power of Kapton and polyethylene [NASA-TM-85693] 08 p1231 N84-18044
Mean excitation energies for stopping powers in various materials using local plasma oscillator strengths [NASA-TP-2271] 11 p1760 N84-21485
Current status of calculations and measurements of ion stopping power in ICF plasmas [DE84-005880] 21 p3501 N84-32187

STORABLE PROPELLANTS
NT AIRCRAFT FUELS

STORAGE
Hydrogen storage by molecular polyhydrides [AD-A136431] 09 p1278 N84-18346
Priorities for detailed quality assessments of the National Defense Stockpile nonfuel materials [NMAB-403] 13 p2006 N84-23011
Shelf life determination of an epoxy resin by accelerated aging [DE84-006048] 14 p2121 N84-23709
Activities of the Hydrogen Energy Coordinating Committee: Summary of DOE hydrogen programs for FY 1983 [DE84-007016] 14 p2172 N84-24011

STORAGE BATTERIES
NT LEAD ACID BATTERIES
NT NICKEL CADMIUM BATTERIES
NT NICKEL HYDROGEN BATTERIES

NT NICKEL ZINC BATTERIES
NT SILVER HYDROGEN BATTERIES
NT SILVER ZINC BATTERIES
NT ZINC-BROMIDE BATTERIES
NT ZINC-CHLORINE BATTERIES
Assessment of potential for batteries in space applications 03 p0346 N84-12246
Research, development and demonstration of advanced lead-acid batteries for utility load leveling [DE84-002683] 05 p0676 N84-14444
Membrane separators for circulating electrolyte storage batteries [DE84-002106] 07 p0906 N84-18471
Chemically rechargeable battery [NASA-CASE-NPO-16024-1] 13 p2007 N84-23020
Solar photovoltaic powered refrigerators/freezers for medical use in remote geographic locations [NASA-CR-168286] 15 p2361 N84-25163
Electrochemical storage 19 p3048 N84-29342
Secondary alkaline batteries [DE84-010963] 20 p3179 N84-30191
Battery Energy Storage Test (BEST) facility [DE84-012127] 20 p3237 N84-30548
Emerging battery technologies [DE84-011193] 21 p3394 N84-31536
Solid state tetrachloroaluminate storage battery having a transition metal chloride cathode [AD-D011133] 22 p3618 N84-32924

STORAGE RINGS (PARTICLE ACCELERATORS)
Damping ring rf system for SIC [DE83-011853] 01 p0143 N84-10938
Applications of vacuum technology to novel accelerator problems [DE83-012710] 01 p0143 N84-10942
The effects of beam-beam collisions on storage-ring performance: A pedagogical review [DE83-012773] 01 p0144 N84-10944
DATATRIEVE used in a control-system database [DE83-014187] 01 p0162 N84-11084
Status of P714 - LAPDOG [DE83-013613] 01 p0164 N84-11079
Correlation of superconductor strand, cable, and dipole critical currents in CBA magnets [DE83-003951] 02 p0214 N84-11400
Application of the Green's function method to some nonlinear problems of an electron storage ring. Part 1. The Green's function for the Fokker-Planck equation [DE83-014829] 02 p0282 N84-11850
Collective-focusing ion accelerator [DE83-012795] 02 p0290 N84-11899
Latest on polarization in electron storage rings [DE83-012764] 02 p0290 N84-11902
Blowup of a weak beam due to interaction with a strong beam in an electron storage ring [DE83-016089] 02 p0291 N84-11908
A high-performance digital triggering system for phase-controlled rectifiers [DE83-012217] 03 p0367 N84-12386
High-level control programs at NSLS [DE83-010935] 03 p0421 N84-12754
From accelerators to storage rings to ? [DE83-011849] 03 p0434 N84-12842
A thousand TeV in the center of mass: Introduction to high-energy storage rings [DE83-015649] 03 p0435 N84-12855
Hadron-hadron collider group [DE83-010704] 03 p0437 N84-12865
New facilities for the US high-energy physics program [DE83-016589] 03 p0438 N84-12876
Low-noise gallium-arsenide field-effect transistor preamplifiers for stochastic beam-cooling systems [DE83-017535] 04 p0528 N84-13475
PR beam-pulse formation and control [DE84-001354] 04 p0596 N84-13936
The e-+e- collisions in the multi-TeV region [DE84-000993] 04 p0601 N84-13968
Magnetic field measurements of superconducting magnets for the colliding beam accelerator [DE83-017351] 04 p0603 N84-13982
Colliding-beam-accelerator lattice [DE83-017875] 04 p0614 N84-14050
The effect of field index fluctuations on the dynamics of a high current electron ring in a modified betatron accelerator [AD-A133089] 05 p0745 N84-14891
Some comments on the design of electron storage rings for free electron lasers [DE84-002869] 07 p1010 N84-16553
Investigation of optimum magnet geometries for gain-expanded free-electron lasers [AD-A136494] 09 p1321 N84-18634
Dissipative effects in the beam-beam interaction of intersecting storage rings [DE84-004871] 09 p1388 N84-19064
Storage ring design for X-ray lithography [DE84-002859] 09 p1390 N84-19079
X-ray holographic microscopy experiments at the Brookhaven synchrotron light source [DE84-004260] 10 p1499 N84-19796
Experimental investigation of the characteristics of an ultraviolet storage ring laser [AD-A137751] 11 p1662 N84-20847
New results of the ACO storage ring free electron laser [AD-A137785] 11 p1663 N84-20848
Second order particle motion equations and linear chromaticity calculation in accelerator rings [DE84-005896] 12 p1903 N84-22391
Lattice for a low-field superconducting super collider [DE84-006022] 12 p1916 N84-22482
Progress and problems in storage ring free electron lasers [AD-A138683] 13 p1995 N84-22946
Anomalous laser induced bunch lengthening on the ACO storage ring free electron laser [AD-A138814] 13 p1995 N84-22949
UV and VUV degradation of very high reflectivity mirrors for use in a storage ring free electron laser [AD-A138740] 13 p2043 N84-23255
Moving ring reactor KARIN-I [IPPJ-660] 13 p2044 N84-23265
Aperture studies of the BNL colliding beam accelerator with reduced superperiodicity [DE84-002854] 19 p3103 N84-29713
Simulation of ultra-low emittance electron storage rings [DE84-012050] 20 p3310 N84-31024
Magnetically confined kinetic-energy storage ring: A new fundamental energy-storage concept [DE84-011531] 21 p3435 N84-31793
Prospect of polarized targets in electron rings [DE84-014684] 23 p3823 N84-34245

STORAGE STABILITY
Stabilization of the solvent Methyl-n-Amyl Ketone (MAK) in vinyl paints [AD-A131059] 01 p0050 N84-10323
Transactions of the Chinese Solar Energy Society (selected articles) [AD-A131870] 03 p0403 N84-12637
Storage of synthetic turbine lubricants under adverse conditions [AD-A132226] 04 p0506 N84-13319
Middle distillate fuel stability characteristics: A review [AD-A132156] 04 p0509 N84-13337
Calcium-thionyl chloride battery technology [AD-A133570] 06 p0830 N84-15401
Photodeposition of nitride insulators on 3-5 substrates [NASA-CR-173393] 12 p1797 N84-21720
Research on aviation fuel instability 14 p2108 N84-23642
Surveillance report. Stage I dissected motors. Phase XIV. Propellant and component testing [AD-A139201] 14 p2132 N84-23777
Phenoxy resins containing pendent ethynyl groups and cured resins therefrom [NASA-CASE-LAR-13262-1] 15 p2300 N84-24805
Basic study of fuel storage stability [AD-A142194] 19 p2966 N84-28799
Stage I propellant surveillance report glacial acrylic acid motors GAA-001 and GAA-002 TP-H1011 [AD-A141099] 19 p3001 N84-29020
Color film preservation system: Breadboard development [NASA-CR-171099] 19 p3026 N84-29194
Kinetics of open circuit processes in undischarged Li/SOCl2 cells [CONTRIB-336] 23 p3736 N84-33675
The stability of atropine, stored in the Swedish autoinjector [FOA-C-40191-C3] 23 p3805 N84-34127

STORAGE TANKS
Raft thermocline thermal storage [DE83-011962] 02 p0218 N84-11431
Earthquake response considerations of broad liquid storage tanks [PB83-251215] 04 p0516 N84-13393
Permeability of flexible materials used in fuel storage tanks. Part 1: General review [MRL-TN-459] 05 p0662 N84-14353
Permeability of flexible materials used in fuel storage tanks. Part 2: A method of measurement and preliminary results [AD-A133451] 06 p0853 N84-15558
Cryogenic Fluid Management Experiment (CFME) trunnion verification testing [NASA-CR-166310] 07 p0985 N84-16361
Prevention of stress-corrosion cracking in nuclear waste storage tanks [DE84-001410] 14 p2128 N84-23758
Liquefied energy gas terminal risk: A comparison and evaluation [IIASA-RR-83-34] 15 p2360 N84-25161
Operational demonstration of a field of high performance flat plate collectors with isothermal heat transport [BMFT-FB-T-83-2] 15 p2362 N84-25171
Optimal design of a storage system with constant or linear release rate [INPE-3125-PRE/516] 16 p2541 N84-26311
Development and fabrication of collapsible fuel storage drums for arctic use [AD-A141207] 18 p2798 N84-27754
Hydrogen storage in the form of metal hydrides [NASA-TM-77453] 19 p3050 N84-29358

STORE RELEASE
U EXTERNAL STORE SEPARATION

STORM DAMAGE
Organized microscale structure of the windstorm of 12 May 1983 in Utrecht and vicinity [KNMI-TR-36] 05 p0709 N84-14647
West breakwater-Sines (Portugal): Study of armor stability 08 p1194 N84-17788
The storm of 12 May 1983, Ascension day [KNMI-TR-44(CWD)] 10 p1541 N84-20096
Measures to improve anti-hail service 11 p1669 N84-20892
Hurricane Alicia: Prediction, damage and recovery efforts [GPO-33-446] 22 p3525 N84-32968

STORM SUPPRESSION
Problems in hail prevention 18 p2686 N84-28328
Cloud seeding with TG-10 rockets — hail suppression 18 p2568 N84-28329
Planned radar network in hail suppression 18 p2686 N84-28331

STORMS
NT CYCLOGENESIS
NT CYCLONES
NT DUST STORMS
NT HAILSTORMS
NT HURRICANES
NT IONOSPHERIC STORMS
NT MAGNETIC STORMS
NT RAINSTORMS
NT SNOWSTORMS
NT SOLAR STORMS
NT STORMS (METEOROLOGY)
NT SUDDEN IONOSPHERIC DISTURBANCES
NT THUNDERSTORMS
NT TORNADOES
NT TROPICAL STORMS
NT TYPHOONS
An evaluation of an automatic cell detection and tracking algorithm [AD-A130088] 01 p0107 N84-10694
Effects of mesoscale weather distrubances on contamination concentrations [DE84-005753] 13 p2010 N84-23036
Single Doppler velocity signatures: An Atlas of patterns in clean air/widespread precipitation and convective storms [PB84-155779] 14 p2181 N84-24083
Climate fluctuations in Illinois: 1901-1980 [PB84-159896] 14 p2181 N84-24089
Cloud physics studies in SCPP (Sierra Cooperative Pilot Project) during 1982-1983 [PB84-176452] 17 p2735 N84-27384
Retrieval of thermal and microphysical variables in observed convective storms 23 p3799 N84-34089
Analysis of satellite data for sensor improvement (detection of severe storms from space) 24 p3932 N84-34886
Development of the Centralized Storm Information System (CSIS) for use in severe weather prediction 24 p3932 N84-34890
NSSFC: VAS assessment activities 24 p3932 N84-34891

STORMS (METEOROLOGY)
NT DUST STORMS
NT HAILSTORMS
NT HURRICANES
NT RAINSTORMS
NT SNOWSTORMS
NT THUNDERSTORMS
NT TORNADOES
NT TROPICAL STORMS
NT TYPHOONS
A case study of gravity wave-convective storm interactions 05 p0408 N84-12659
Climate of Phoenix, Arizona (revised) [PB83-246801] 03 p0412 N84-12690
NASA B-57B severe storms flight program [NASA-TM-84921] 05 p0628 N84-14129
Genesis and development of deep convective storms [PB83-252452] 05 p0710 N84-14653
West breakwater-Sines (Portugal): Wave climatology 08 p1194 N84-17787

Properties of aerosols during a dust storm over the Beijing area
[AD-A136521] 09 p1344 N84-18783
The relation between the gravity current in the atmospheric boundary layer and local heavy rainfall
[AD-A137193] 10 p1539 N84-20086
The storm of 12 May 1983, Ascension day
[KNMI-TR-44(CWD)] 10 p1541 N84-20096
Case studies on convective storms, case study 1, 13 July 1978: First echo case
[PB84-147479] 12 p1862 N84-22134
Forecasting the windstorm of 12 May 1983 (Acension Day) — the Netherlands
[KNMI-TR-43] 13 p2017 N84-23079
Annual data and verification tabulation Atlantic tropical cyclones, 1983
[PB84-161330] 14 p2181 N84-24067
Facilities for meteorological research at NASA Goddard/Wallops Flight Facility
[NASA-TM-84422] 15 p2371 N84-25223
The use of radar in modern meteorology
18 p2886 N84-28315
Problems in hail prevention 18 p2888 N84-28328
Routine storm surge forecasting using numerical models: Procedures and computer programs for use on the CDC CYBER 205E at the British Meteorological Office
[IOS-167] 18 p2891 N84-28353
Debris Flows, Landslides, and Floods in the San Francisco Bay Region, January 1982: Overview and summary of a conference
[PB84-194737] 20 p3243 N84-30590
A comparison of storm tracking and extrapolation algorithms
[DOT-FAA-PM-84/1] 23 p3600 N84-34091
Severe storm electricity 24 p3926 N84-34851
Storm severity detecion (RF)
24 p3927 N84-34857
Investigation of arc cloud lines
24 p3931 N84-34885

STOSS-AND-LEE TOPOGRAPHY
U GLACIAL DRIFT

STOWAGE (ONBOARD EQUIPMENT)
Latching mechanism for deployable-restowable columns
[NASA-CASE-LAR-13169-1] 15 p2343 N84-25063

STRAIGHT WINGS
U RECTANGULAR WINGS

STRAIN AGING
U PRECIPITATION HARDENING

STRAIN DISTRIBUTION
U STRESS CONCENTRATION

STRAIN ENERGY METHODS
CLFE2D: A generalized plane strain finite element program laminated composites subject to mechanical and hygrothermal loading
[NASA-CR-173507] 14 p2157 N84-23921
An expression of strain energy involving couple stresses in solids 15 p2313 N84-24880
Three-dimensional non-self-similar crack growth in elastic-plastic materials 17 p2678 N84-27055
Material damage and structural instability analysis: Local and global stationary values of the strain energy density function 17 p2678 N84-27057
Determination growth analysis in quasi-isotropic laminates under loads simulating low-velocity impact
[NASA-TM-86819] 18 p2909 N84-27833

STRAIN FATIGUE
U FATIGUE (MATERIALS)

STRAIN GAGE BALANCES
Some aspects of the compatibility between strain gauge readout equipment and multi-component wind tunnel balances
[ARL-AERO-NOTE-417] 09 p1317 N84-18606
Development of a 6-component balance for the cryogenic range
[BMFT-FB-W-84-022] 20 p3191 N84-30270
The 6M x 6M low speed wind tunnel
21 p3345 N84-31221

STRAIN GAGES
Application of FRACTOMAT/KRAK GAGES to creck growth measurements in structural components
[AD-A130945] 01 p0095 N84-10620
Carbon piezoresistive stress gauge
[DE83-016505] 02 p0224 N84-11470
Inflatable device for installing strain gage bridges
[NASA-CASE-FRC-11068-1] 03 p0375 N84-12443
Thin film strain transducer — in-flight monitoring of balloon film strain
[US-PATENT-APPL-SN-526770]
03 p0376 N84-12448
Transient temperature response of strain gages, revision 1
[DE83-017514] 03 p0378 N84-12459
Aerodynamic force measurements with a strain-gage balance in a cryogenic wind tunnel
[NASA-TP-2251] 04 p0480 N84-13162
Instruction manual for the use of the CSIR triaxial rock stress measuring equipment
[CSIR-ME-1783] 04 p0536 N84-13535
The measurement of large strains with foil resistance strain gages
[AD-A133667] 05 p0685 N84-14500
Advanced strain-gage pressure transducer
[AD-A136063] 09 p1303 N84-18518
Strain histories associated with stage separation systems using linear shaped charge
10 p1508 N84-19874
Tensile testing apparatus
[NASA-CASE-LAR-13243-1] 11 p1656 N84-20804
Non-self generating transducer signal conditioning technique
[AD-P002677] 11 p1657 N84-20814
Stress gages
[AD-B080780] 16 p2495 N84-26012
Multidirectional force and moment tranaducer
[REPT-5211901-80-1] 17 p2629 N84-26815
Multidirectional force and moment tranaducer
17 p2629 N84-26816
Development of an instrumented riser joint — for offshore platforms stress measurement
17 p2629 N84-26818
Thin film strain tranaducer
[NASA-CASE-WLP-10055-1] 18 p2838 N84-28015
Strain gage calibration
[NASA-CASE-LAR-12743-1] 18 p2839 N84-28019
Stress tranaducer interpretation analysis and stability data 20 p3143 N84-29957
Calibration of CT-4A fatigue test article, March 1983
[AD-A142880] 21 p3328 N84-31115
Development of long-length wire filament strain gages
[DE84-011543] 21 p3406 N84-31605
Three-wire static strain gage apparatus
[AD-D011130] 22 p3596 N84-32776
Evaluation of the gravity relevance on bone stresses by in vivo measurements 23 p3808 N84-34148

STRAIN HARDENING
Factors affecting plastic instability and sheet formability
[DE83-011146] 01 p0097 N84-10631
Elastic-plastic constitutive modeling of concrete
[DE83-014547] 02 p0206 N84-11342
An experimental and numerical investigation of pressure-shear waves in 6061-T6 aluminum and alpha-titanium 08 p1129 N84-17345
Calculations for uniaxial stress and strain cycling in plasticity
[AD-A135800] 09 p1332 N84-18698
Workhardening correlations based on state variables in some FCC metals in monotonic loadings
[DE84-004880] 10 p1461 N84-19540
Repeated load relaxations of type 316 austenitic stainless steel
[DE84-004875] 10 p1461 N84-19541
Magneto-mechanical effects in 304 stainless steels
[DE84-004343] 10 p1462 N84-19546
Dynamic compressive strain rate tests on 2 types of beryllium
[DE84-006126] 11 p1635 N84-20691
Analysis of shear strain localization in thermal visco-plastic materials
[AD-A138186] 12 p1798 N84-21727
Initiation and propagation of shear bands in antiplane shear deformation
[AD-A140741] 17 p2624 N84-26794
A material model for reverse yielding and its application to torsion
[AD-A140897] 17 p2680 N84-27071
The determination of the Bodner material coefficients for indium 718 and their effects on cyclic loading
[AD-A141174] 18 p2814 N84-27861
Ring ductility of irradiated Inconel 706 and Nimonic PE16
[DE84-010397] 20 p3155 N84-30034
Preliminary study on elastoplasticity in large transformations
[CETIM-11-E-360] 21 p3424 N84-31719
Combined macroscopic and microscopic approach to the fracture of metals
[DE84-014670] 23 p3719 N84-33577

STRAIN RATE
The yield stress and strain-rate sensitivity of nickel over a wide temperature range
[DE83-016913] 02 p0197 N84-11279
Strain rate effects on ductile/brittle transitions in steels
[DE83-016906] 03 p0355 N84-12308
A pressure-shear experiment for studying the dynamic plastic responses of metals at shear strain rates of 10 to the 5th power s(-1) 03 p0387 N84-12519
Endochronic theory of dynamic viscoplasticity
[DE83-017531] 03 p0390 N84-12546
Strain analysis of thin composites with Moire method
[NAL-TR-754] 04 p0548 N84-13612
Yield stress of type 21-6-9 stainless steel over a wide range of strain rate (10(-5) to 10-4 s(-1)) and temperature
[DE83-017159] 06 p0807 N84-15259
High strain rate characterization of materials
[AD-A134342] 07 p1016 N84-16593
Earth strain measurements with the transportable laser ranging system: Field techniques and planning
[NASA-CR-175150] 08 p1186 N84-17725
Determination of the effect of strain rate on the mechanical properties of graphite-epoxy laminates
[AD-A136334] 09 p1276 N84-18328
Some remarks on rate-dependent plasticity
[AD-A136084] 09 p1333 N84-18704
Applicability of Hart's state variable model to large strain rate ranges
[DE84-004878] 10 p1462 N84-19549
Dynamic compressive strain rate tests on 2 types of beryllium
[DE84-006126] 11 p1635 N84-20691
Physical aspects of computing the flow of a viscous fluid
[NASA-TM-85893] 14 p2100 N84-23605
A detailed comparison of hydrogen and mercury embrittlement in Monel 400
[AD-A139119] 14 p2127 N84-23753
The effect of cooling rate from the gamma-phase on the strain-rate sensitivity of a uranium 2w/o molybdenum alloy
[QUEL-1492/83] 15 p2296 N84-24779
The yield stress of type 21-6-9 stainless steel over a wide range of strain rate (10(-5) to 10(4) s(-1)) and temperature
[DE84-000914] 15 p2298 N84-24793
Stability of flow processes for dissipative solids with internal imperfections
[ISSN-0208-5658] 15 p2331 N84-24998
Lubricant rheology in concentrated contacts
15 p2341 N84-25050
High rate straining and mechanical properties of materials
[QUEL-1502/83] 15 p2350 N84-25106
Boundary condition and strain-rate effects on the response of blast-loaded beams
[AD-A140428] 16 p2502 N84-26061
Material characterization by strain rate controlled low cycle fatigue tests and by crack propagation velocity: Summary of test number M3 430300
[IMI-679] 18 p2816 N84-27878
Strain gage calibration
[NASA-CASE-LAR-12743-1] 18 p2839 N84-28019
A tractable theory for nonlinear propellant response and cumulative damage predictions
20 p3142 N84-29950
Nonlinear structural characterization of solid propellants 20 p3142 N84-29951
The effects of strain rate and temperature on the fracture behavior of three structural adhesives
[AD-B084418] 20 p3164 N84-30097
Processing science to increase the reliability of ceramics
[AD-A143207] 22 p3559 N84-32539
Optimal measurement of ice-sheet deformation from surface-marker arrays
[NASA-CR-173877] 22 p3622 N84-32950
Development of the model 52500 strain-inertial seismometer system (prototype)
[AD-A143572] 22 p3624 N84-32961

STRAIN SOFTENING
U PLASTIC DEFORMATION

STRAKES
A wind tunnel investigation to determine dominant forebody strake design characteristics for an F-15 equipped with conformal fuel tanks
[AD-A136912] 10 p1421 N84-19292
Flight mechanical analysis of dynamic derivatives of the Dornier variation wind tunnel model
[DFVLR-FM-83-38] 15 p2255 N84-24541
The effect of strakes on vortical flows applied to aircraft
[AD-A139989] 15 p2257 N84-24560
Helicopter anti-torque system using strakes
[NASA-CASE-LAR-13233-1] 23 p3692 N84-33400

STRANDS
Correlation of superconductor strand, cable, and dipole critical currents in CBA magnets
[DE83-003951] 02 p0214 N84-11400

STRANGENESS
Multiquark exotics
[DE83-017958] 04 p0601 N84-13964
Theoretical perspectives on strange physics
[DE83-018085] 04 p0601 N84-13965

STRAPDOWN INERTIAL GUIDANCE
Flight test results of the strapdown ring laser gyro tetrad inertial navigation system
[NASA-TM-84358] 02 p0176 N84-11157
Flight tests for a strapdown system (MSS): The results of a special flight test
[ESA-TT-818] 03 p0330 N84-12153
Strapdown inertial guidance system: Onboard software and its evaluation
[NAL-TR-775] 09 p1254 N84-18184
Procedures for static and constant-rate tests on a Single-Degree-of-Freedom (SDF) strapdown gyroscope
[AD-A136632] 09 p1318 N84-18609
Acta Aeronautica et Astronautica Sinicia (selected articles)
[AD-A137150] 11 p1599 N84-20475
Advances in Strapdown Inertial Systems
[AGARD-LS-133] 16 p2446 N84-25691
Advances in strapdown inertial systems: Introduction and overview 16 p2446 N84-25692
Advances in strapdown sensors 16 p2446 N84-25693
Strapdown system algorithms 16 p2446 N84-25694
Requirements, applications, and results of strapdown inertial technology to commercial airplanes 16 p2447 N84-25695
Strapdown inertial systems for tactical missiles using mass unbalanced two-axis rate gyros 16 p2447 N84-25696
Modular strapdown guidance unit with embedded microprocessors 16 p2447 N84-25697
Application of multifunction strapdown inertial system 16 p2447 N84-25698
Initial alignment and augmentation of the ARINC 705 strapdown AHRS LTR-81 16 p2447 N84-25699
Inertial-optical attitude determination and model following control of maneuvering spacecraft
[NLR-MP-83053-U] 17 p2616 N84-26742
Multisensor calibration procedure for an all weather short range air defense system concept
[AD-A141337] 18 p2791 N84-27715
Attitude determination using strapdown inertial sensors and adaptive estimation
[INPE-3180-PRE/545] 21 p3327 N84-31106
Fault-tolerant system considerations for a redundant strapdown inertial measurement unit
[NASA-CR-172426] 23 p3692 N84-33396

STRAPS
UH-60 shoulder harness lead-in strap failure analysis
[AD-A138014] 12 p1867 N84-22170

STRATA
NT SUBSTRATES
Oscillations of a slowly rotating weakly stratified gaseous planet 05 p0765 N84-15016
A method for stratigraphic correlation of several boreholes
[CSIR-TWISK-261] 07 p1032 N84-16692
Free oscillations of ideal stratified fluid in container 21 p3480 N84-32058

STRATEGIC MATERIALS
Replacing critical and strategic refractory metal elements in nickel-base superalloys — NASA's COSAM program
[NASA-TM-83528] 04 p0498 N84-13264
Critical and strategic materials: Proceedings of the Laboratory Study Group Meeting
[CONF-830474] 12 p1783 N84-21631
Manufacturing developments to reduce strategic materials usage 23 p3703 N84-33475
The Navy program to develop replacements for critical and strategic materials 23 p3704 N84-33478
Ceramics as substitutes for scarce metals 23 p3704 N84-33479
Coating developments to restrict strategic materials usage 23 p3704 N84-33483

STRATEGY
Decision making and information processing under various uncertainty conditions
[AD-A132051] 04 p0572 N84-13770
On some issues concerning optimization and decision trees
[AD-A134109] 05 p0733 N84-14815
Approaches to automatic strategy analysis and synthesis
[AD-A137067] 10 p1573 N84-20312
Near-optimal finite solutions to the 3 and 4 step discrete evasion games
[AD-A138811] 10 p1574 N84-20314
The numerical solution of three stochastic differential games
[CSIR-TWISK-292] 11 p1718 N84-21205
Managing program risk: One way to reduce cost growth
[AD-P002754] 13 p2051 N84-23301
DECISION TECHNOLOGY: The catalyst for acquisition improvement
[AD-P002755] 13 p2051 N84-23302
Designing the equitable risk contract
[AD-P002756] 13 p2051 N84-23303
Assumption of risk in the R and D environment
[AD-P002757] 13 p2051 N84-23304
An analysis of the acquisition strategy decision process along three dimensions of the acquisition improvement program
[AD-P002758] 13 p2051 N84-23305
Skunkworks 81 revisited: An update on acquisition strategy
[AD-P002759] 13 p2051 N84-23306
Strategic computing: New-generation computing technology: A strategic plan for its development and application to critical problems in defense
[AD-A141982] 20 p3266 N84-30721
Distributed problem solving for air fleet control: Framework and implementations
[AD-A143168] 21 p3327 N84-31106
An ocean climate research strategy
[PB84-194828] 21 p3452 N84-31902
Factors affecting the supply of strategic raw materials with particular reference to the aerospace manufacturing industry 23 p3702 N84-33467

STRATIFICATION
NT ATMOSPHERIC STRATIFICATION
NT INTERCALATION
Mixed convection and stratification phenomena in liquid metals 06 p0842 N84-15488
Asymptotic form of solution of problem of seasonal evolution of thermal regime in ocean 17 p2699 N84-27194
Hybrid modeling of soil-structure interaction in layered media
[PB84-192178] 20 p3171 N84-30137
The design and testing of an electrolyte destratification system applied to a 98 V Alco 2200 battery
[PB84-184894] 20 p3237 N84-30550
Hopf bifurcation in two-component flow
[AD-A142844] 21 p3400 N84-31568

STRATIFIED FLOW
The stratified turbulent mixing layer: Velocity and concentration measurements compared with a discrete vortex model 05 p0626 N84-14117
A galerkin-finite element technique for small-scale atmospheric flows and transport over general terrain
[AD-A132735] 05 p0736 N84-14832
The parabolic approximation for sound propagation in stratified moving media 06 p0907 N84-15893
Baroclinic inertial instability in the non-static equilibrium atmosphere
[BLL-TRANS-1568-(9022.552)] 08 p1189 N84-17751
Fluctuation of velocity distribution under influence of suspended particles on turbulence in bottom current 17 p2699 N84-27191
Thermal laminarization of a stratified pipe flow
[DE84-006407] 20 p3185 N84-30236
Thermal oscillations downstream of an elbow in stratified pipe flow
[DE84-006550] 21 p3401 N84-31579

STRATIFIED LAYERS
U STRATA

STRATIGRAPHY
Geologic study of the Wind River Basin, Fremont and Natrona Counties, central Wyoming
[PB83-254912] 03 p0409 N84-12677
Kriging of geological and physical parameters from Yucca Flat, NTS
[DE83-018227] 04 p0550 N84-13625
Geologic survey in the south-central region of Mato Grosso
[E84-10039] 04 p0551 N84-13632
Geology of carbonate aggregate resources of Illinois, Illinois mineral notes
[PB83-251140] 04 p0565 N84-13725
Great Lakes coastal geology: Stratigraphy and bluff recession along the Lake Erie coast, New York
[PB84-128933] 10 p1538 N84-20075
Development of the Earth's early crust: Implications from the Beartooth Mountains 11 p1679 N84-20959
Geochemistry of volcanic rocks from the Wawa greenstone belt 11 p1680 N84-20963
The greenstone belts of Zimbabwe 11 p1681 N84-20968
Stratigraphic, geochemical, and petrologic studies of the Ammonoosuc volcanics, northcentral Massachusetts and southwestern New Hampshire 13 p2013 N84-23059
Cenozoic tectonics of the Caribbean: Structural and stratigraphic studies in Jamaica and Hispaniola 13 p2013 N84-23062
Sedimentology and invertebrate paleontology of Triassic and Jurassic Lacustrine deposits, Culpeper Basin, northern Virginia 13 p2014 N84-23064
Depositional history and structural evolution of a sedimentary basin in a modern forearc setting, western Sunda Arc, Indonesia 13 p2014 N84-23066
Venus banded terrain: Evaluation of tectonic models for the origin of banding 13 p2077 N84-23458
Chronology, morphology and stratigraphy of pumiceous pyroclastic-flow (ignimbrite) deposits from the eruption of Mount St. Helens on 18 May 1983 13 p2080 N84-23476
Surface compositions in the Aristarchus Region: Implications for regional stratigraphy 13 p2087 N84-23519
Elysium Region, Mars: Characterization of tectonic features 13 p2089 N84-23534
Compressional features in the Tharsis Region of Mars: Geographic 13 p2090 N84-23538
Planned marine geophysical geological surveys of the Wilkes Land and Ross Sea margins 14 p2160 N84-23939
The Arctic platform in the national petroleum reserve in Alaska: Deposition, deformation and petroleum potential 14 p2164 N84-23959
Oil and gas resources of the North Slope, Alaska 14 p2164 N84-23960
Structural studies of the northwest Iberian continental margin using long-range side-scan sonar
[IOS-161] 15 p2368 N84-25196
Advances in planetary geology
[NASA-TM-86247] 15 p2426 N84-25567
The crustal tectonics and history of Europa: A structural, morphological, and comparative analysis 15 p2426 N84-25568
Spectral analysis of groove spacing on Ganymede 15 p2426 N84-25570
Stratigraphy of the crater Copernicus 15 p2426 N84-25571
Geologic observations of the Martian highland boundary in the Mamers Valles region 15 p2426 N84-25572
Problems in seismic anisotropy of thin-layered media 18 p2659 N84-28157
Assessment of computer-based geologic mapping of rock units in the LANDSAT-4 scene of northern Death Valley, California 20 p3214 N84-30418
An assessment of methods of geological basin analysis for application to the Uinta and Piceance Basins
[DE84-012369] 20 p3242 N84-30581
Stratigraphic and volcano-tectonic relations of Crater Flat Tuff and some older volcanic units, Nye County, Nevada
[DE84-010926] 20 p3242 N84-30584
Chemical evolution of a high-level magma system: The Black Mountain Volcanic Center, Southern Nevada
[DE84-013321] 20 p3243 N84-30587
The Quaternary history and stratigraphy of the Cape Fear River valley, North Carolina 21 p3438 N84-31815
The depositional environments and petrography of the Stirling Quartzite Death Valley Region, California and Nevada 21 p3439 N84-31816
Retrogenesis of the Basal Zone of the Stillwater Complex, Montana 21 p3439 N84-31818
Recent eolian activity and paleoclimate fluctuations in the Ferris Lost Soldier Area, South-Central Wyoming 21 p3441 N84-31830
Volcanism, plutonism, and sedimentation in a late Devonian Submarine Island-arc setting, Northern Sierra Nevada, California 21 p3441 N84-31831
The neogene stratigraphy of the Central Florida Panhandle 21 p3441 N84-31833
Stratigraphy and sedimentology of the upper Proterozoic Kingston Peak Formation, Panamint Range, eastern California 22 p3620 N84-32939
Computer calculated analysis of subsurface formation porosities in central New York state 22 p3620 N84-32941
Lower tertiary biostratigraphy and paleoecology of the Quilcene-Discovery Bay area, northeast Olympic Peninsula, Washington 22 p3621 N84-32943
Morphologic studies of the Moon and planets
[NASA-CR-173866] 22 p3678 N84-33319
Oligocene and Miocene larger foraminiferida from Australia and New Zealand
[BMR-BULL-188] 23 p3797 N84-34077
The geologic and geophysical study of the Hengchung Peninsula, southern Taiwan, 1 24 p3957 N84-35052

STRATOCUMULUS CLOUDS
Stratocumulus simulations with a general circulation model 12 p1856 N84-22090
Simulations of the stratocumulus-topped boundary layer with a third-order closure model 12 p1857 N84-22098
Problems with the process partitioning theory of stratocumulus entrainment 12 p1857 N84-22099
On the bimodality of temperature and moisture near stratocumulus cloud tops 12 p1858 N84-22101

Interaction of the ABL with stratocumulus and cumulus cloud layers, appendix N 18 p2885 N84-26309
A statistical-dynamical model for forecasting cold air stratocumulus over the yellow sea
[AD-A141540] 19 p3058 N84-29403

STRATOFORTRESS AIRCRAFT
U B-52 AIRCRAFT

STRATOPAUSE
Coupling between the thermosphere and the stratosphere: The role of nitric oxide
[AERONOMICA-ACTA-A-270-1983] 16 p2520 N84-26175

STRATOSPHERE
An on board control and supervisory system
[INPE-2812-TDL/139] 02 p0206 N84-11357
Numerical simulation of global ozone transport during stratospheric sudden warming 02 p0245 N84-11605
Remote sensing instruments for trace species measurements in the troposphere and stratosphere: A review 03 p0396 N84-12583
Observations of the upper troposphere and lower stratosphere using the urbana coherent-scatter radar
[NASA-CR-174594] 03 p0407 N84-12684
Development of analytical methodology for the measurement of chlorine and bromine in the stratosphere
[AD-A132640] 05 p0703 N84-14614
A program of research in environmental modeling
[NASA-CR-173281] 08 p1182 N84-17697
The retrieval of atmospheric constituent mixing-ratio profiles from solar absorption spectra
[NASA-CR-173303] 08 p1186 N84-17730
Barking Sands, Hawaii. Range reference atmosphere 0-70 km altitude
[AD-A137406] 10 p1590 N84-20421
Influence of stratospheric aerosols forming during combustion of rocket fuels on Earth's albedo 11 p1670 N84-20899
Determining optical characteristics of stratospheric aerosol by multifrequency laser sounding method 11 p1670 N84-20900
The study of a mass spectrometer-beam system for measurements of ozone and other minor constituents of the stratosphere 11 p1677 N84-20942
Toward a complete inventory of stratospheric dust particles with implications and their classification 11 p1756 N84-21464
Measurement of sea surface temperature from HIRS2/MSU 12 p1836 N84-21966
Stratospheric tritium sampling
[DE84-008074] 12 p1848 N84-22045
Regional correlation between TOMS total ozone from NIMBUS-7 satellite and geopotential height from the GLAS analysis 12 p1851 N84-22056
Observations of major stratospheric chlorine species
[AD-A138646] 13 p2011 N84-23045
Photochemical modeling of the Earth's stratosphere 13 p2013 N84-23058
Documentation of the GLAS fourth order general circulation model. Volume 1: Model documentation
[NASA-TM-86064-VOL-1] 14 p2179 N84-24048
Coupling between the thermosphere and the stratosphere: The role of nitric oxide
[AERONOMICA-ACTA-A-270-1983] 16 p2520 N84-26175
Determination of stratospheric wind profiles by digital analysis
[AD-A140502] 16 p2531 N84-26251
Advanced laser stratospheric monitoring systems analyses
[NASA-CR-172348] 16 p2552 N84-26373
Radar observations of inertial period waves in the lower stratosphere over Arecibo 17 p2683 N84-27081
Baroclinic instability in the stratosphere and mesosphere 17 p2683 N84-27082
Origin of refractive index fluctuations in the mesosphere as opposed to the stratosphere and troposphere 17 p2686 N84-27101
Techniques for studying gravity waves and turbulence: Vertical wind speed power spectra from the troposphere and stratosphere obtained under light wind conditions 17 p2688 N84-27120
Capabilities and limitations of the Jicamarca radar as an MST radar 17 p2690 N84-27130
Stratosphere and troposphere (S-T) studies at Millstone Hill. Recent results, capabilities and limitations 17 p2691 N84-27137
Capabilities and limitations of the Sondrestrom radar for ST observations 17 p2691 N84-27139
Directivity and spacing for the antenna elements 17 p2693 N84-27154
School of Electrical Engineering. 17 p2694 N84-27156
Data processing techniques used with MST radars: A review 17 p2694 N84-27159
Decoding: Codes and hardware implementation 17 p2694 N84-27160
Decoding: Software implementations 17 p2694 N84-27161
Coherent integration 17 p2695 N84-27162
Real-time MST radar signal processing using a microcomputer running under FORTH 17 p2695 N84-27165
Review of correlation techniques 17 p2695 N84-27166
Stratospheric concentration of nitric acid, ozone and sulphurous carbonyl: Measurement of nitric acid absorption in the Q branch of the v4 band as a function of temperature
[AD-B071596] 17 p2724 N84-27336
Causes and effects of changes in stratospheric ozone: Update 1983
[PB84-176072] 17 p2729 N84-27368
Stratospheric NO and NO2 profiles at sunset from analysis of high-resolution balloon-borne infrared solar absorption spectra obtained at 33 deg N and calculations with a time-dependent photochemical model
[NASA-TM-86285] 20 p3240 N84-30566
The NOAA-ERL-ARL solar UV radiation and climate research project program description
[PB84-183292] 20 p3319 N84-31070
A 1-dimensional time dependent model of the stratospheric aerosol 21 p3437 N84-31808
Empirical studies of upper atmospheric species
[NASA-CR-172437] 21 p3443 N84-31847
The Project STRAFAM: Test of a new parachute based instrument carrier for stratospheric research — dropsondes
[BMFT-FB-W-84-021] 21 p3445 N84-31859
Measurement of H2O and other trace gases in the stratosphere using a high resolution far-infrared spectrometer at 28 km
[NASA-CR-173679] 22 p3822 N84-32951
Proceedings of a Workshop on Polar Stratospheric Clouds: Their Role in Atmospheric Processes
[NASA-CP-2318] 22 p3822 N84-32952
Composition alteration of stratospheric air due to sampling through a flow tube: Environmental research papers
[AD-A143319] 22 p3823 N84-32959
Barreira do Inferno: Five years of ozone research
[INPE-2974-PRE/437] 23 p3796 N84-34073
Study of the system of middle atmosphere-ionosphere using remote-sensing data
[NASA-TM-77764] 23 p3797 N84-34074
The high altitude pollution program (1976 - 1982)
[AD-A144390] 24 p3917 N84-34800

STRATOTANKER AIRCRAFT
U C-135 AIRCRAFT

STRATUS CLOUDS
Optical extinction coefficients beneath marine stratus clouds. Comparison of coefficients calculated from observed aerosol spectra with coefficients specified by the Navy aerosol model
[AD-A132011] 03 p0410 N84-12685
Radiativo-dynamic properties of Arctic stratus clouds and their possible modification by aerosol particles
[DFVLR-FB-83-23] 06 p0882 N84-15740
Short-range local forecasting of coastal summer stratus by statistical techniques, a pilot study
[AD-A134590] 07 p1040 N84-16742
Stratocumulus simulations with a general circulation model 12 p1856 N84-22090
Low-level stratus prediction using binary statistical regression: A report using Moffett Field data
[AD-A140468] 16 p2551 N84-26370
A numerical study of the coastal stratus cloud in a two-dimensioanl meso-scale model 17 p2733 N84-27371
Cloud cover typing from environmental satellite imagery. Discriminating cloud structure with Fast Fourier Transforms (FFT)
[NASA-CR-173727] 18 p2883 N84-28296

STREAK CAMERAS
Development of soft X-ray streak cameras at Lawrence Livermore National Laboratory
[DE83-015841] 10 p1499 N84-19797
L-Division streak camera
[DE84-007780] 14 p2149 N84-23872
Circular-scan photochron streak camera for spaceborne laser ranging applications 24 p3906 N84-34741

STREAK PHOTOGRAPHY
X-ray streak crystal spectrography — spectra of laser produced plasmas
[DE83-015616] 02 p0225 N84-11473
Time-resolved spectral measurements above 80 A
[DE83-015616] 03 p0446 N84-12933
Streak cameras for soft X-ray and optical radiation
[DE84-002780] 08 p1162 N84-17564
Development of soft X-ray streak cameras at Lawrence Livermore National Laboratory
[DE83-015841] 10 p1499 N84-19797
New developments in cylinder testing
[DE84-002782] 15 p2337 N84-25033
Ultrafast gated intensifier design for laser fusion X-ray framing applications
[DE84-007761] 15 p2339 N84-25038
Multiprofile-streak technique
[MBB-UA-776-83-O] 16 p2564 N84-26447
Photoemissive materials for 0.35 Micron laser fiducials in X-ray streak cameras
[DE84-008348] 20 p3194 N84-30283
Comparison of lightning flash rates from the PBE sensor and streak counting from the DMSP satellite
[DE84-006722] 20 p3246 N84-30602
A multi-GHz multi-channel photonic analog data processing system
[DE84-012281] 21 p3499 N84-32175

STREAM FUNCTIONS (FLUIDS)
The break-up mechanism of a streamwise directed vortex 03 p0325 N84-12123
Viscous effects and heat transfer in a calculation method for axisymmetric flow in multistage turbomachines using the stream function 07 p0956 N84-16201
On an extension of free stream-line theory
[NAL-TR-772] 09 p1313 N84-18580
A fundamental study of relation between the velocity fields far upstream of, at and far downstream of a a rotor disk in a shear flow — wind turbine flow
[FFA-138] 17 p2687 N84-27006
A modified least squares formulation for a system of first order equations
[NASA-CR-172372] 19 p3082 N84-29557

STREAMLINE FLOW
U LAMINAR FLOW

STREAMLINED BODIES
NT FAIRINGS
Design of single component airfoils using an inverse boundary element method
[REPT-83-A2-SER-A] 12 p1765 N84-21512
Study of large-scale mixing in developing wakes behind streamlined bodies
[NASA-CR-173478] 12 p1766 N84-21517
The design and operational development of self-streamlining 2-dimensional flexible walled test sections
[NASA-CR-172328] 13 p1926 N84-22534

STREAMLINING
Preliminary study of (2-D) digital filtering for deallasing NOSS wind direction data
[NASA-CR-173147] 07 p1036 N84-16721
The status of analytical preparation for 2-dimensional testing at high transonic speeds in the University of Southampton transonic self-streamlining wind tunnel
[NASA-CR-3785] 11 p1602 N84-20494
The behavior of streamlines near separation point and separation criterion
[AD-A140649] 17 p2668 N84-27010
An integral prediction method for three-dimensional flow separation
[AD-A142551] 20 p3184 N84-30231

STREAMS
NT GAS STREAMS
Characterization of Kel-F-graphite composite (Kelgraf) electrodes and application to detection in flowing streams
[PB83-224204] 01 p0039 N84-10247
Snowy Range Observatory: Climatological and streamflow data report 1982
[PB83-243147] 03 p0403 N84-12633
Assessment of quality of data on tapes from the hydrogeochemical and stream sediment reconnaissance
[DE83-017697] 04 p0554 N84-13647
Continuum mechanics approach to streamflow modeling
[PB83-265041] 05 p0698 N84-14581
Spatial reasoning to determine stream network from LANDSAT imagery
[E84-10063] 06 p0865 N84-15632
Review of hydrologic models for evaluating use of remote sensing capabilities 07 p1022 N84-16629
Role of geomorphic thresholds in determining alluvial channel morphology
[DE84-003627] 07 p1034 N84-16706
Water resources data for New Jersey, water year 1982. Volume 1: Atlantic Slope Basins, Hudson River to Cape May
[PB84-119726] 09 p1338 N84-18736
Water resources data for Indiana, water year 1982
[PB84-114990] 09 p1339 N84-18747
Evidence for acid-precipitation-induced trends in stream chemistry at hydrologic bench-mark station
[USGS-CIRC-910] 10 p1531 N84-20029
Freezing of Martian streams under climatic conditions 13 p2083 N84-23498

Water resources data for Massachusetts and Rhode Island, water year 1982
[PB84-180009] 20 p3229 N84-30521
Acceleration of ions and electrons by wave-particle interactions
[AD-A142341] 20 p3292 N84-30900
Mathematical modeling of longitudinal profile adjustment in alluvial streams 21 p3425 N84-31726
Climatic change and streamflow in the southwest
[DE84-012658] 21 p3432 N84-31776
Topographic effects of the Alaskan stream on shelf currents
[PB84-205137] 22 p3628 N84-32988

STRENGTH
Design aspects of loose buffer tube fiber optics cable 11 p1722 N84-21234
Strength of bolted joints in laminated composites
[AD-A141826] 19 p2986 N84-28921

STRENGTH OF MATERIALS
U MECHANICAL PROPERTIES

STRESS (PHYSIOLOGY)
NT ACCELERATION STRESSES (PHYSIOLOGY)
NT CENTRIFUGING STRESS
A laboratory comparison of portable cooling systems for workers exposed to two levels of heat stress
[AD-A131848] 03 p0372 N84-12423
Physical fitness as a moderator of cognitive degradation during sleep deprivation
[AD-A131962] 03 p0415 N84-12718
Effect of atropine on the exercise-heat performance of man
[AD-A131843] 03 p0416 N84-12719
Effectiveness in reducing heat stress of three conditioned-air cooling vests worn with and without cooling air supplied to a face piece
[AD-A131975] 03 p0417 N84-12726
Women at work and stress
[R/PERS-626] 04 p0573 N84-13777
Aerobic fitness and the hypohydration response to exercise-heat stress
[AD-A132263] 05 p0713 N84-14669
Stress fractures: The remodelling response to excessive repetitive loading
[AD-A130681] 06 p0887 N84-15765
Variable inhibition by falling CO2 of hypoxic ventilatory response in man
[AD-A130658] 06 p0887 N84-15768
Proceedings of the 3rd Tripartite Conference on Submarine Medicine: France, United Kingdom and the United States
[AD-A133150] 06 p0889 N84-15777
Influence of stress, weightlessness, and simulated weightlessness on differentiation of preosteoblasts 09 p1354 N84-18846
Hyper-gravitational effects on metabolism and thermoregulation 09 p1358 N84-18871
General introduction to the study on the gastrointestinal hormones and the gastric acid secretion during physical stress in man 10 p1546 N84-20137
The effect of physical stress on gastric secretion and pancreatic polypeptide levels in man 10 p1546 N84-20138
Physiological adjustments to hemorrhage, altitude, and work
[AD-A137781] 11 p1695 N84-21057
Exercise in the heat. Effects of saline or bicarbonate infusion
[AD-A137194] 11 p1696 N84-21061
Sustained Intensive Air Operations: Physiological and Performance Aspects
[AGARD-CP-338] 11 p1696 N84-21062
Laboratory studies of aircrew chemical protective ensemble: Effects on pilots' performance 11 p1697 N84-21066
Variations in states of alertness during continuous operations at the control post level 11 p1697 N84-21068
The effects of sleep loss and sustained mental work: Implications for command and control performance 11 p1697 N84-21069
Circadian rhythm of human heart rate during antiorthostatic tests 15 p2378 N84-25259
Efficacy of conditioning animals to hypoxia during sleep 15 p2377 N84-25261
Nucleic acid content of canine liver during long-term experimental hypokinesia 15 p2377 N84-25267
Influence of hydration level and body fluids on exercise performance in the heat
[AD-A139284] 15 p2380 N84-25281
A non-dimensional analysis of cardiovascular response to cold stress. Part 1: Identification of the physical parameters that govern the thermoregulatory function of the cardiovascular system
[AD-A138710] 15 p2380 N84-25285
Stressful mission profiles, part 1 16 p2536 N84-26281
Relationship between cardiovascular system response and adrenocortical glucocorticoid function on exposure to diffuse, low-intensity helium-neon laser emission 17 p2741 N84-27405
The effects of nonphysiological oxygen supply on the organism 17 p2745 N84-27428
Individual responses to combined heat and physical load 18 p2896 N84-28374
The role of neural reflexes in control of the cardiovascular system during stress
[AD-A140938] 18 p2899 N84-28393
Health risks associated with aircraft model type among US Navy pilots
[AD-P003270] 18 p2907 N84-28435
Aftereffects associated with one and two stressors across conditions of complete, partial, or no control
[AD-P003299] 18 p2908 N84-28446
Effects of ionizing radiation and restraint stress on activity, avoidance conditioning, and stomach ulcers in albino rats
[AD-A141515] 19 p2984 N84-28911
Influence of heat stress and acclimation on maximal aerobic power
[AD-A142329] 19 p3066 N84-29453
Nonauditory-system response to noise and effects on health 19 p3070 N84-29475
Ergonomic analysis of human operation of video terminal 21 p3454 N84-31918
Stress in work 21 p3454 N84-31921
Link between indexes for mental work capacity and parameters in circulatory system before and after physical stress 21 p3455 N84-31925
Correlation between plasma fibronectin level and mortality following experimental rate heat stress
[AD-A143383] 22 p3628 N84-32991
Evaluation of the gravity relevance on bone stresses by in vivo measurements 23 p3808 N84-34148

STRESS (PSYCHOLOGY)
Method for assessing mental stress in operators 02 p0262 N84-11715
Women at work and stress
[R/PERS-626] 04 p0573 N84-13777
Maze-solving as a performance measurement tool for human operations under time-stress
[AD-A133394] 07 p1050 N84-16799
Physiological adjustments to hemorrhage, altitude, and work
[AD-A137781] 11 p1695 N84-21057
Sustained Intensive Air Operations: Physiological and Performance Aspects
[AGARD-CP-338] 11 p1696 N84-21062
The effects of sleep loss and sustained mental work: Implications for command and control performance 11 p1697 N84-21069
Effects of stressors on task performance and satisfaction
[AD-A139039] 14 p2187 N84-24101
Effect of working in two shifts on circadian rhythm of heart rate 15 p2376 N84-25260
Influence of exam stress on cardiac function of students differing in level of physical activity 15 p2378 N84-25268
Biofeedback methods and quality of operator's performance 17 p2740 N84-27399
Functional status of operators and its systemic and technical determinants 18 p2895 N84-28369
Occupational efficiency in relation to psychophysiological characteristics 18 p2896 N84-28373
Suicide gestures of USAF basic trainees
[AD-P003245] 18 p2903 N84-28412
A summary of the psychological effects of tactical nuclear warfare
[AD-P003256] 18 p2905 N84-28423
Comparing well-being and stress of several high risk Army groups
[AD-P003264] 18 p2906 N84-28430
Workshops for management of combat stress
[AD-P003283] 18 p2907 N84-28439
Aftereffects associated with one and two stressors across conditions of complete, partial, or no control
[AD-P003299] 18 p2908 N84-28446
Psychological and biochemical effects of a stress management program
[AD-P003300] 18 p2909 N84-28447
Nonauditory-system response to noise and effects on health 19 p3070 N84-29475
Effects of emotional and perceptual-motor stress on a voice recognition system's accuracy: An applied investigation
[AD-A142554] 20 p3175 N84-30160
Stress in work 21 p3454 N84-31921
Medical-psychological problems of the occupational reliability of flight personnel 23 p3807 N84-34136

STRESS ANALYSIS
NT BOUNDARY ELEMENT METHOD
NT X RAY STRESS ANALYSIS
Probabilistic assessment of weld quality in steel piping under seismic conditions
[DE83-012053] 01 p0091 N84-10591
Elasto-plastic analysis of plane stress problems using uniaxial symmetric Tresca yield surface and kinematic hardening 01 p0093 N84-10606
Singularities at the tip of a crack normal to the interface of an anisotropic layered composite
[AD-A131504] 01 p0096 N84-10625
Feasibility of using sonic techniques to estimate in-situ stresses
[DE83-016890] 01 p0097 N84-10634
Creep and thermal effects in aging solids
[DE83-012673] 01 p0098 N84-10635
North Wind 4-kilowatt wind-system development. Phase 1: Design and analysis. Volume 1: Executive summary
[DE83-012278] 01 p0103 N84-10666
Preliminary design of aircraft using structural optimization methods 02 p0172 N84-11133
Elastic-plastic analysis of annular plate problems using NASTRAN
[AD-A131293] 02 p0231 N84-11518
Simplified methods for the inelastic analysis of stiffened shells
[DE83-016518] 02 p0232 N84-11525
Thermal stress analysis of annular glass-to-metal seals under thermal shock 03 p0370 N84-12408
Analytical response of concrete structures subjected to high temperatures
[DE83-009825] 03 p0389 N84-12538
Mechanics of fracture under high-rate stress loading
[DE83-013770] 03 p0390 N84-12544
Design, development and use of the finite element machine
[NASA-CR-172250] 03 p0424 N84-12777
Lecture notes for contact-impact algorithms for large-deformation finite-element analysis
[DE83-013039] 03 p0426 N84-12789
The mechanics of delamination in fiber-reinforced composite materials. Part 1: Stress singularities and solution structure
[NASA-CR-172269] 04 p0491 N84-13221
Computational models for cyclic plasticity, rate dependence and creep in finite element analysis
[PB83-245829] 04 p0505 N84-13308
Strain analysis of thin composites with Moire method
[NAL-TR-754] 04 p0548 N84-13612
Structural analysis of a glass/space frame parabolic-trough solar collector for various operating positions
[DE84-001137] 04 p0550 N84-13622
Inelastic analysis of piping and tubular structures
[PB83-249987] 04 p0550 N84-13623
The plane stress/strain analysis of non-homogeneous continua by the boundary integral equation method
[TR-821S] 04 p0587 N84-13880
NOSTRUM: A finite element program for nonlinear structural mechanics
[TR-18] 04 p0587 N84-13881
Development of the linear displacement discontinuity method 05 p0691 N84-14536
Computer-Aided Structural Engineering (CASE) project. User's guide: Computer program to Calculate Shear, Moment and Thrust (CSMT) from stress results of a two-dimensional finite element analysis
[AD-A134089] 05 p0726 N84-14768
Strength theories of continuous and discontinuous fiber composites 06 p0797 N84-15195
User's manual for GAMNAS: Geometric and Material Nonlinear Analysis of Structures
[NASA-TM-85734] 06 p0798 N84-15200
Analysis of interlaminar stresses in thick composite laminates with and without edge delamination
[NASA-TM-85736] 06 p0798 N84-15201
Crazing and fatigue behaviour of one and two phase polymers 06 p0811 N84-15262
The structure of turbulent entraining flow in an annulus with a rotating screen 06 p0832 N84-15416
Nonlinear analysis of thin shells by the hybrid mixed finite-element method 06 p0856 N84-15578
Orthotropic hole element 06 p0859 N84-15595
Stress measurements in ice
[AD-A133905] 06 p0861 N84-15609
We need simplicity and speed. Some examples of simple and fast methods for the measurement of deformations of structures
[NLR-MP-82021-U] 06 p0862 N84-15616
A three-dimensional photoelastic investigation of stresses and cracks formed in concrete around deformed reinforcing bars 06 p0862 N84-15621
An investigation of the indirect boundary element method in One- and two-dimensional elastostatics
[AD-A133142] 06 p0900 N84-15843

Use of shear lag for composite microstress analysis - rectangular array
[AD-A134165] 07 p0967 N84-16267

A generalized couple theory of hygrothermal-elasticity: Transient effects in composite laminate with circular cavity
[AD-A134376] 07 p0968 N84-16271

Application of image processing technology to problems in manuscript encapsulation — Codex Hammer
[NASA-CR-173200] 07 p1007 N84-16528

Flexibilities of and stresses in thin unpressurized pipe bends with flanged ends under in-plane bending: Influence of bend angle
[ESDU-81041] 07 p1015 N84-16581

Stresses in cylindrical shells with nozzles subjected to external loadings and internal pressure
[CRIF-MT-156] 07 p1017 N84-16597

Some thoughts on 3-D isoparametric elements
[ARL-STRUC-NOTE-489] 07 p1059 N84-16860

Development of a modular battery
[BMFT-FB-W-83-021] 08 p1153 N84-17504

Shock wave properties of anorthosite and gabbro
[NASA-CR-173309] 08 p1155 N84-17521

A review of fracture mechanics life technology — linear elastic fracture mechanics
[NASA-CR-170903] 08 p1170 N84-17622

Enhancement of SEASAT wind-stress measurements using data from GOES
[PB84-111244] 08 p1192 N84-17773

Buckling of a subluminate in a quasi-isotropic composite laminate
[NASA-TM-85755] 09 p1275 N84-18325

Hygrothermal effects in continuous fibre reinforced composites. Part 4: Mechanical properties 2 - fatigue and time-dependent properties
[AD-A135768] 09 p1276 N84-18333

Viscoelastic analysis of adhesive stresses in bonded joints
[NASA-CR-173243] 09 p1286 N84-18411

Numerical investigation of stress-strain state of composite working tool assembled with negative allowance
[BLL-M-35379] 09 p1328 N84-18672

Skin-stiffener interface stresses in composite stiffened panels
[NASA-CR-172261] 09 p1330 N84-18681

Fracture behavior under impact
[AD-A136056] 09 p1333 N84-18702

Fracture behavior under impact
[AD-A136057] 09 p1333 N84-18703

Modal deformations and stresses — modal coupling methods
[ED-81-343/RD] 09 p1334 N84-18712

Study of seismic response at Stations 6 and 7, El Centro Strong Motion Array, Imperial Valley, California
[PB84-119024] 09 p1346 N84-18795

Acoustic responses of coupled fluid-structure system by acoustic-structural analogy 10 p1510 N84-19883

Transition of corner cracks at holes into through-the-thickness cracks
[AD-A136922] 10 p1517 N84-19933

Space Shuttle main engine powerhead structural modeling, stress and fatigue life analysis. Volume 1: Gasdynamic environment of the SSME HPFTP and HPOTP turbines
[NASA-CR-170999] 11 p1625 N84-20635

Flywheel rotor and containment technology development
[DE84-005742] 11 p1665 N84-20864

Comparison of the stress concentration factor of a hole near a circular edge notch with an engineering estimate
[AD-A137691] 11 p1668 N84-20882

The analysis of elastic-plastic deformation and stress at finite strain and their evaluation
[AD-A137931] 11 p1669 N84-20887

Investigation of the currents and density structures of Lake Erie
[PB84-140334] 11 p1672 N84-20911

Fracture mechanics evaluation of the static fatigue life of optical fibers in bending 11 p1727 N84-21265

Measurement of stress with acoustic waves
11 p1728 N84-21273

On the effects of post cure cool down and environmental conditioning on residual stresses in composite laminates
12 p1788 N84-21683

Thermal stress analysis for a wood composite blade — wind turbines
[NASA-CR-173394] 12 p1826 N84-21903

Finite deformation of viscoelastic disks
[DE84-002795] 12 p1827 N84-21908

Structural deformation: A comprehensive survey of modern measurement methods
[NLR-TR-82021-U] 12 p1827 N84-21909

Application of the PAFEC 75 software package — Program for Automatic Finite Element Calculations (PAFEC)
[NPL-QU-66] 12 p1878 N84-22240

Thermoelastic stresses in metal with temperature: Dependent properties in radiant heating
[BLL-M-35526-(5826.4)] 13 p1960 N84-22733

Contact-stress analysis of elastic-viscoelastic interface conditions
[AD-A138834] 13 p1964 N84-22759

Estimation of local stress intensity in flanged thin-wall shell structures under heavy thermal load
13 p1972 N84-22799

Stressed-strained state of flanged shells under heavy thermal load beyond elastic limit
13 p1972 N84-22800

Solving statics problems of thick-walled cylindrical shells with loose contact between layers
13 p1973 N84-22805

Fracture toughness processes
[DE84-007244] 13 p2002 N84-22989

Venus banded terrain: Evaluation of tectonic models for the origin of banding 13 p2077 N84-23458

Shear-lag analysis of notched laminates with interlaminar debonding
[NASA-CR-3798] 14 p2119 N84-23697

Fracture temperature and flaw growth in nitronic 40 at cryogenic temperatures
[NASA-TP-2312] 14 p2127 N84-23750

Resistivity and strain behavior during transformation cycling in nickel-titanium
[DE84-006640] 14 p2129 N84-23762

Stress-intensity factor equations for cracks in three-dimensional finite bodies subjected to tension and bending loads
[NASA-TM-85793] 14 p2157 N84-23925

Finite element analysis of wrinkling membranes
[NASA-CR-172325] 14 p2158 N84-23926

Finite element model for nonaxisymmetric structure with rate dependent yield conditions
[AD-A139530] 14 p2158 N84-23930

Finite element model to compute stresses in composite masonry due to creep, shrinkage and temperature
[PB84-152578] 14 p2159 N84-23933

The influence of cutouts on transient response of hemispherical shells
[AD-P002943] 14 p2197 N84-24183

Three dimensional stress analysis of an artillery projectile joint
[AD-P002955] 14 p2199 N84-24195

Thermal and transformation stresses in hollow tubes during the quenching process
[AD-P002976] 14 p2201 N84-24212

Finite element analysis of fabrics with nonlinear stress-strain laws
[AD-P002977] 14 p2202 N84-24213

Nonlinear analysis of rectangular glass plates by Galerkin method
[PB84-159649] 15 p2302 N84-24819

Solid propellant nonlinear constitutive theory extension
[AD-A139957] 15 p2304 N84-24823

Effects of curing stress on intralaminar cracking in graphite-epoxy laminates 15 p2306 N84-24846

Fatigue damage and crack growth in random short-fiber reinforced composites 15 p2306 N84-24847

A probabilistic theory for the strength of discontinuous fibre composites 15 p2306 N84-24848

Plasticity of laminated composites
15 p2306 N84-24849

The effective behavior of inelastic composites
15 p2306 N84-24850

Effective elastic moduli of an isotropic, two-phase composite 15 p2309 N84-24852

Bearing tester data compilation, analysis and reporting and bearing math modeling, volume 1
[NASA-CR-171039] 15 p2340 N84-25046

Time dependent quasifracture nucleation and propagation 15 p2349 N84-25097

Analysis of deformation and stresses near cold worked holes
[NLR-TR-82113-U] 15 p2349 N84-25101

Studies of the behavior of a snow cover on a mountain slope. 14: Poisson's ratio of snow, 2
15 p2353 N84-25120

Middle East Technical University Journal of Pure and Applied Sciences, volume 15, no. 2
15 p2401 N84-25406

An epicycloidal hole under uniform tangential force in an infinite, isotropic, compressible medium in second order elasticity 15 p2401 N84-25407

Dynamic stress analysis of smooth and notched fiber composite flexural specimens
[NASA-TM-83694] 16 p2460 N84-25770

A dynamic fracture assessment of impact damage in structural ceramics 16 p2469 N84-25826

Turbulent Prandtl number distribution within the constant stress/heat-flux region of a near-wall flow
[SME-8401] 16 p2486 N84-25945

Stress gages
[AD-B080780] 16 p2495 N84-26012

Theory of exterior and harmonic eigenstrains
16 p2503 N84-26065

Technical and cost benefits of lightweight, stretched-membrane heliostats
[DE83-009408] 16 p2513 N84-26124

Interply layer degradation effects on composite structural response
[NASA-TM-83702] 17 p2618 N84-26756

Hydrogen effects on cleavage fracture in fully pearlitic 1080 steel 17 p2621 N84-26778

Further thoughts on shot peening (and other compression inducing surface treatments) for fatigue enhancement
[BAE-KRS-N-GEN-275] 17 p2622 N84-26779

Characterization of crystallographic structure and internal stress of chromium coatings plated under current interruptions
[AD-A136116] 17 p2623 N84-26786

Numerical analysis of time-dependent inelastic fracture 17 p2677 N84-27054

Three-dimensional non-self-similar crack growth in elastic-plastic materials 17 p2678 N84-27055

Stress decay in an orthotropic half-plane under self-equilibrating sinusoidal loading
[NASA-TM-85791] 17 p2679 N84-27066

The K-distributions extrapolated on the basis of stress intensity rates
[NLR-MP-83048-U] 17 p2680 N84-27073

Stress analysis of wire hoist rope
[PB84-172618] 17 p2681 N84-27075

The design of a test procedure for the measurement of acoustic damping materials at low stress
[AD-A132701] 18 p2853 N84-28113

User's manual for SAC-3: A 3-dimensional nonlinear, time dependent soil analysis code using the bounding surface plasticity model
[AD-A137782] 18 p2853 N84-28114

The application of HTR coated fuel particle performance models to various problems in materials' science
[AERE-R-11029] 18 p2931 N84-28589

Flow of a simple viscoelastic fluid in a thin lubricating oil
[ISSN-0208-5658] 19 p3019 N84-29145

Spartan Release Engagement Mechanism (REM) stress and fracture analysis
[NASA-CR-173779] 19 p3034 N84-29244

Applications of the scanning electron microscope to concrete failure (Axial, biaxial, and dynamic)
[AD-A141788] 19 p3036 N84-29256

A tractable theory for nonlinear propellant response and cumulative damage predictions
20 p3142 N84-29950

Nonlinear structural characterization of solid propellants 20 p3142 N84-29951

Residual curing stress of carbon-resin composites
[ONERA-RT-6/3521-M] 20 p3147 N84-29980

Strains in an elastic plate containing an interference-fit bolt near a free edge
[AR-003-012] 20 p3201 N84-30333

Reliability analysis for stiff versus flexible piping
[DE84-008325] 20 p3203 N84-30344

Local bond stress-slip relationships of deformed bars under generalized excitations: Experimental results and analytical model
[PB84-192848] 20 p3204 N84-30355

Numerical solution of viscoplastic flow problems by augmented lagrangians
[AD-A142793] 21 p3400 N84-31566

Double arch mirror study. Part 1: Preliminary engineering report
[NASA-CR-166589-PT-1] 21 p3412 N84-31634

Application of measurements of the propagation velocity of ultrasonic Rayleigh waves to surface inspection of materials
[CETIM-15-H-417] 21 p3416 N84-31662

Thermal-stress analysis for wood composite blade — horizontal axis wind turbines
[NASA-CR-173830] 21 p3419 N84-31685

Nonlinear Structural Analysis
[NASA-CP-2297] 21 p3419 N84-31688

New variational formulations of hybrid stress elements
21 p3420 N84-31690

Inelastic and dynamic fracture and stress analyses
21 p3421 N84-31697

Nonlinear analysis for high-temperature composites: Turbine blades/vanes 21 p3421 N84-31699

Sideline verification for multilayer pressure vessel and piping analysis including tangential analysis
[DE84-004333] 21 p3423 N84-31711

Engineering basis for selection of positron source material
[DE84-011772] 21 p3494 N84-32143
A simple rectangular element for 2-dimensional analysis of laminated composites
[NASA-TM-86291] 22 p3544 N84-32439
Creep transitions in aluminum solid-solution alloys 22 p3550 N84-32472
Hybrid stress reduced-Mindlin elements for thin multilayer plates with application to edge contact problems 22 p3606 N84-32857
Deformation of fiber-reinforced laminated composite near free surface 23 p3706 N84-33497
Analysis of instability-related growth of a through-width delamination
[NASA-TM-86301] 23 p3711 N84-33524
Advanced strain-isolation-pad material with bonded fibrous construction
[NASA-CR-166599] 23 p3723 N84-33592
On stress analysis of a crack-layer 23 p3759 N84-33824
Analysis of the double overlap fatigue specimen
[ARL-STRUC-REPT-402] 23 p3760 N84-33833
Stress studies in EFG
[NASA-CR-173960] 23 p3787 N84-34018
Planning of plates reinforced with equally stressed fibers of constant cross section 24 p3872 N84-34540
Dynamic stress in elastic areas developing upon interaction of intensive heat fluxes with solid bodies 24 p3873 N84-34545
Advanced composite vertical stabilizer for DC-10 transport aircraft
[NASA-CR-173985] 24 p3878 N84-34573
Mixed models and recugion techniques for large-rotation, nonlinear analysis of shells of revolution with application to tires
[NASA-TP-2343] 24 p3912 N84-34773
On stress analysis of a crack-layer
[NASA-CR-174774] 24 p3912 N84-34774
Steady state creep in quartz
[DE84-701196] 24 p3912 N84-34776
Stress analysis of foam sandwich semi-monocoque structures 24 p3958 N84-35061

STRESS CALCULATIONS
U STRESS ANALYSIS

STRESS CONCENTRATION
Delamination growth in composite structures under inplane compression loading 01 p0036 N84-10224
A total life prediction model for stress concentration sites
[NASA-CR-168225] 01 p0094 N84-10612
A study of coherent structures in the near-neutral marine atmospheric boundary layer 03 p0406 N84-12658
Biaxial fatigue, a review of the literature
[FRP-82/17] 04 p0498 N84-13266
The emergence and propagation of a phase boundary in an elastic bar 05 p0690 N84-14535
Development of the linear displacement discontinuity method 05 p0691 N84-14536
Modelling particle - particle interaction at the micro scale
[AD-A133969] 05 p0744 N84-14885
We need simplicity and speed. Some examples of simple and fast methods for the measurement of deformations of structures
[NLR-MP-82021-U] 06 p0662 N84-15616
Use of shear lag for composite microstress analysis - rectangular array
[AD-A134165] 07 p0967 N84-16257
Stress concentration factors. Axially loaded lugs with clearance-fit pins
[ESDU-81006] 07 p1014 N84-16578
Stress-state index and Nadai-Lode parameter
[BLL-M-35433-(5828.4)] 08 p1169 N84-17612
Some topics in finite elasticity 08 p1169 N84-17614
Regulation of bone mass by mechanical strain
[NASA-CR-173363] 09 p1360 N84-18888
Control of bone remodelling by applied dynamic loads
[NASA-CR-173287] 09 p1361 N84-18889
A theory of filament wound pressure vessels
[VTH-LR-379] 10 p1503 N84-19823
Elastic quarter plane and quarter space boundary value problems 11 p1667 N84-20876
Comparison of the stress concentration factor of a hole near a circular edge notch with an engineering estimate
[AD-A137691] 11 p1668 N84-20682
A critical evaluation of new plate theories applied to laminated composites
[AD-A137789] 11 p1668 N84-20683
Bending of beams subjected to transverse impacts
[AD-A137840] 11 p1668 N84-20684
The analysis of elastic-plastic deformation and stress at finite strain and their evaluation
[AD-A137931] 11 p1669 N84-20687
Analysis of stress-strain, fracture and ductility behavior of aluminum matrix composites containing discontinuous silicon carbide reinforcement
[NASA-TM-83610] 12 p1789 N84-21686
Bellows flow-induced vibrations
[NASA-TM-82556] 13 p1969 N84-22912
Stress distribution in a cylindrical bar subjected to cyclic torsional loading
[AD-P002957] 14 p2199 N84-24197
Analysis of symmetric reinforcement of quasi-isotropic graphite-epoxy plates with a circular cutout under uniaxial tensile loading
[AD-A139998] 15 p2285 N84-24715
A probabilistic theory for the strength of discontinuous fibre composites 15 p2306 N84-24848
Effect of stress singularities on the delamination of laminated composites 15 p2310 N84-24858
Method for solving variation problems of plasticity theory — metal working
[BLL-M-35555-(5828.4)] 17 p2676 N84-27047
The stress distribution in pin-loaded orthotropic plates 17 p2676 N84-27059
Finite element analysis of bonded joints
[AD-A140559] 17 p2680 N84-27066
Photoelastic investigation of the stress concentration factor in welded joints — offshore structures
[ND-R-816(R)] 18 p2852 N84-28106
The dynamic steady-state propagation of an anti-plane shear crack in a general linearly viscoelastic layer
[AD-A140980] 18 p2853 N84-28115
The measurement of residual stress in textured steel using an ultrasonic velocity combination technique
[AERE-R-11115] 18 p2854 N84-28123
Experimental aspects of the study of stress generating mechanisms in silicon sheet growth 18 p2938 N84-28635
Free edge strain concentrations in real composite laminates: Experimental-theoretical correlation
[NASA-CR-173818] 19 p2986 N84-28919
On continuous distributions of dislocations in nonlocal elasticity
[AD-A141858] 19 p3036 N84-29257
Nonlocal continuum theory for dislocation and fracture
[AD-A142538] 20 p3202 N84-30340
Method for defining the distribution of triaxial stress states in underground structures
[DE84-010591] 20 p3202 N84-30342
A finite element model for the analysis and optimal design of beams and plates with variable flexural rigidity 21 p3417 N84-31668
The hole drilling method for residual stress distribution measurement
[CETIM-100730] 21 p3424 N84-31720
Hole interaction and load introduction effects for compression-loaded laminates with holes
[NASA-TM-86267] 22 p3544 N84-32435
Crack tip field and fatigue crack growth in general yielding and low cycle fatigue
[NASA-CR-174686] 22 p3554 N84-32503
Stresses and displacements in linear Maxwell non-isothermal circular plates on Winkler foundation and with radial and transverse variation in material properties 22 p3606 N84-32856
Systematic jointing in the cardium sandstone along the Bow River, Alberta, Canada 22 p3620 N84-32937
Effect of stress concentration on fatigue resistance of heat-resistant nickel alloys 23 p3707 N84-33503
Evaluation of the effects of stress state and interfacial properties on the behavior of advanced metal matrix composites
[AD-A143911] 23 p3711 N84-33525
Evaluation of COD (Crack-Opening-Displacement) compliance determined crack growth rates
[AD-A144037] 23 p3761 N84-33838
Mechanistic methodology for airport pavement design with engineering fabrics. Volume 1: Theoretical and experimental base
[DOT/FAA/PM-84-9.1] 24 p3857 N84-34450
Prediction of crack extension direction in unidirectional composites
[VPI-E-84-27] 24 p3878 N84-34572
The use of adhesive-bonded rivets to lessen the reductions in fatigue life caused by rivet holes
[ARL-STRUC-REPT-399] 24 p3887 N84-34617
Steady state creep in quartz
[DE84-701196] 24 p3912 N84-34776

STRESS CORROSION
NT STRESS CORROSION CRACKING
Stress-corrosion behavior of aluminum-lithium alloys in aqueous environments
[NASA-TM-85853] 02 p0193 N84-11256
Fiber composite materials research in the UK: Assessment report
[AD-A132386] 04 p0492 N84-13226
Grain boundary segregation and environmental degradation of a ferritic stainless steel
[DE83-016927] 04 p0502 N84-13289
Glass fibre/epoxy resin interface life-time prediction
[AD-A132206] 04 p0507 N84-13320
Electrochemical kinetics in stress-corrosion cracks
[DE84-002855] 07 p0976 N84-16323
Passive films, surface structure and stress corrosion and crevice corrosion susceptibility
[AD-A135549] 08 p1132 N84-17383
The role of hydrogen in the stress corrosion failure of high strength Al-Zn-Mg alloys
[AD-A136212] 09 p1284 N84-18388
Acoustic leak detection and ultrasonic crack detection
[DE84-004037] 09 p1328 N84-18670
Preventative measures to limit stress corrosion cracking in prestressed concrete
[AD-A136685] 10 p1471 N84-18609
Intergranular crack propagation rates in sensitized Type 304 stainless steel in an oxygenated water environment
[DE84-005311] 11 p1635 N84-20668
Corrosion and load transfer effects on fatigue of mechanically fastened joints. Fatigue of zero load transfer specimen
[AD-A139042] 13 p2001 N84-22995
Corrosion damage with additional mechanical loading 14 p2126 N84-23745
Stress corrosion resistance of structural steels in high chloride environments
[EUR-7435] 17 p2622 N84-26781
Corrosion fatigue crack growth rates of weldments in Q1N steel
[AD-A141261] 18 p2814 N84-27864
Surface layer effects on the mechanical behavior of metals
[AD-A142260] 20 p3152 N84-30018
Anodic processes and the kinetics of stress-corrosion cracking or corrosion fatigue
[DE84-012911] 21 p3368 N84-31367
The corrosion properties of Spacelab structural alloy aluminum 2219-T851
[ESA-STR-212] 23 p3720 N84-33585

STRESS CORROSION CRACKING
Stress corrosion resistance of Z 6 CN 18-9 steel: Influence of surface treatment (shot peening, polishing)
[BLL-RISLEY-TR-4777-(9091.9F)] 01 p0041 N84-10265
Effect of calcium hydroxide and carbonates on IGA and SCC of Alloy 600
[DE83-902229] 01 p0045 N84-10286
Corrosion evaluation of aluminum 5083
[DE83-015786] 01 p0047 N84-10301
Microkinetics of stress-corrosion cracking in stem-turbine disc alloys
[DE83-902290] 01 p0048 N84-10307
Prediction of crack growth aqueous environments
[AD-A131485] 01 p0096 N84-10626
Transmission electron microscopy characterization of microstructural features of Al-Li-Cu alloys
[NASA-TM-84384] 02 p0193 N84-11255
A surface analytical examination of Stringer particles in Al-Li-Cu alloys
[NASA-TM-85854] 02 p0193 N84-11257
Life prediction under stress corrosion conditions below K sub ISCC
[DE83-016074] 03 p0355 N84-12307
Interaction of stress waves and cracks using a second order accurate finite difference method 03 p0367 N84-12522
Evaluation of stress corrosion cracking characteristics of selected fastener systems in 7075-T6 aluminum
[AD-A132162] 04 p0499 N84-13272
Initiation and propagation of stress-corrosion cracking of Alloy 600 in high-temperature water — Inconel tubing
[DE84-000623] 07 p0975 N84-16316
Effects of nominal and crack-tip strain rate on IGSCC susceptibility in CERT tests
[DE84-004006] 08 p1135 N84-17378
ESR steel deoxidation and slag practice: Influence on inclusion morphology
[MRL-R-915] 12 p1796 N84-21718
A theoretical analysis of the influence of crack dimensions and geometry on mass transport in corrosion fatigue cracks
[NPL-DMA(A)-69] 12 p1825 N84-21897
On the limiting electrode potential in cavities and its role in deciding between SCC (Stress Corrosion Cracking) and HC (Hydrogen Cracking) in metals
[AD-A138585] 13 p1955 N84-22713
Clarification of environmental effects in stress corrosion cracking
[AD-A138581] 13 p1960 N84-22737
Fracture toughness and corrosion properties of the aluminum plate alloys 7010-T651 and 7150-T6E189
[NLR-TR-82125-U] 15 p2296 N84-24781

Draft standard method of test for plane-strain stress-corrosion-cracking resistance of metallic materials in marine environments
[AD-A138752] 15 p2297 N84-24785
Effect of sulfuric acid, oxygen, and hydrogen in high-temperature water on stress corrosion cracking of sensitized Type 304 stainless steel
[DE84-007276] 15 p2298 N84-24795
A unified fracture kinetics representation of the three regions of stress corrosion cracking
15 p2307 N84-24842
Results of a study of residual stresses and fatigue crack growth in lugs with expanded holes
[NLR-MP-83024-U] 15 p2349 N84-25100
Material selection for controlling stress-corrosion cracking
[ESA-PSS-01-736-ISSUE-1] 16 p2465 N84-25799
Determination of the susceptibility of metals to stress corrosion cracking — testing aluminum alloys
[ESA-PSS-01-737-ISSUE-1] 16 p2465 N84-25800
Causes and prevention of structural materials failures in naval environments
[AD-A141560] 19 p2994 N84-28972
Stress-corrosion crack-growth study of titanium alloy Ti-8Al-4V exposed to Freon PCA and nitrogen tetroxide MON-1 20 p3138 N84-29923
Application of electrochemical and mechanical impedance measurements to corrosion induced failures
[AD-A142468] 20 p3153 N84-30021
Solving corrosion problems with surface analysis
[DE84-008652] 20 p3154 N84-30025
Mechanisms of intergranular failures in Alloy 600 in high temperature environments
[DE84-010514] 20 p3155 N84-30033
The influence of nitrogen on the sensitization, corrosion, mechanical and microstructural properties of stainless steels
[DE83-017203] 20 p3157 N84-30050
Preliminary investigation of fatigue crack propagation of 30CrMnSiA steel in salt spray corrosion conditions
20 p3160 N84-30068
Crack initiation model for stress corrosion cracking alpha-brass
[DE84-012837] 21 p3423 N84-31712
Stress corrosion cracking of stainless steels in sea water at ambient temperature
[BLL-RISLEY-TRANS-4556-(9091.9)] 22 p3550 N84-32476
Chromium-magnesium stainless steels, resistant to stress corrosion cracking in magnesium and calcium chloride solutions
[BLL-RISLEY-TRANS-4571-(9091.9)] 22 p3550 N84-32477
Stress corrosion cracking of austenitic stainless steels in sea water: An investigation of test methods
[BLL-RISLEY-TRANS-4568-(9091.9)] 22 p3551 N84-32478
The role of hydrogen in the stress corrosion cracking of 7XXX-series aluminum alloys
23 p3717 N84-33561
Engineering property comparisons of Powder Metallurgy (PM) alloy X7901-T7E89 and Ingot Metallurgy (IM) alloy forgings
[NLR-MEMO-SM-83-050-U] 23 p3720 N84-33583
Significance of the environment in corrosion cracking of Al-Mg and Al-Li-Mg system alloys
24 p3871 N84-34534
Stress corrosion cracking of wrought and P/M high strength aluminum alloys
[AD-A144279] 24 p3884 N84-34606

STRESS CYCLES

Application of stress-generated heat in composites to thermographic NDT 15 p2310 N84-24864
Creep-fatigue interactions in advanced eutectic superalloys
[AD-A142872] 21 p3422 N84-31705
Low-cycle fatigue of VT1-0 alloy and changes in its fine structure at temperatures of 293-4.2 deg K
23 p3706 N84-33509

STRESS DISTRIBUTION

U STRESS CONCENTRATION

STRESS FUNCTIONS

Stress-intensity factor equations for cracks in three-dimensional finite bodies subjected to tension and bending loads
[NASA-TM-85793] 14 p2157 N84-23925
Plasticity of laminated composites
15 p2308 N84-24849
Circumferential cracks in cylindrical shells
16 p2501 N84-26050
On continuous distributions of dislocations in nonlocal elasticity
[AD-A141858] 19 p3036 N84-29257
Boundary layer thermal stresses in cross-ply composite laminates 24 p3958 N84-35057

STRESS INTENSITY FACTORS

Resin selection criteria for tough composite structures
[NASA-TM-83449] 01 p0048 N84-10310
Fatigue-crack growth behavior in a nitrogen-strengthened high-manganese steel at cryogenic temperatures
[DE83-016619] 02 p0195 N84-11269
Effect of crack curvature on stress intensity factors for ASTM standard compact tension specimens
[NASA-CR-168260] 02 p0231 N84-11513
The Dugdale model for the compact specimen
[NASA-TM-85714] 03 p0388 N84-12529
The propagation and arrest of an edge crack in an elastic half-space under conditions of anti-plane shear: Analytical and numerical results 04 p0547 N84-13604
Comparison of fracture-toughness measurements from ferritic-steel compact-tension and surface-flawed specimen
[DE84-000895] 06 p0804 N84-15240
Brief note of the stress intensity factor of elliptical cracks
[PB83-216911] 06 p0862 N84-15618
Investigation of static and dynamic fracture of orthotropic media by photomechanics 06 p0863 N84-15625
Microcrack damage model of brittle rock
[DE84-002068] 06 p0879 N84-15717
Fatigue damage of an annealed 0.45 percent C steel under fully-reversed tension-compression cycling
07 p0983 N84-16367
Stress intensity factors in lugs (through-thickness cracks)
[ESDU-81029] 07 p1014 N84-16579
A cylindrical shell with a stress-free end which contains an axial part-through or through crack
[NASA-CR-173290] 08 p1169 N84-17617
A pressurized cylindrical shell with a fixed end which contains an axial part-through or through crack
[NASA-CR-173291] 08 p1169 N84-17618
A functional stress intensity approach to multiply cracked, partially autofrettaged cylinders
[AD-A135345] 08 p1170 N84-17625
Surface cracks in a plate of finite width under tension or bending
[NASA-CR-172309] 10 p1516 N84-19926
The crack-inclusion interaction problem
[NASA-CR-172308] 10 p1516 N84-19928
Transition of corner cracks at holes into through-the-thickness cracks
[AD-A136922] 10 p1517 N84-19933
Interpolation between calculated stress intensity factors of semi and quarter elliptical cracks
[VTH-LR-368] 10 p1518 N84-19939
Comparison between empirical and calculated stress intensity factors of hole edge cracks
[VTH-LR-376] 10 p1518 N84-19940
Stress intensity factors in a reinforced thick-walled cylinder
[NASA-CR-172307] 11 p1668 N84-20879
An evaluation of algorithms for extracting stress intensity factors from photoelastic data for 3 dimensional problems 13 p2000 N84-22974
Fracture toughness processes
[DE84-007244] 13 p2002 N84-22989
Prediction of long term crevice corrosion and hydrogen embrittlement behavior of ASTM grade-12 titanium — containers for radioactive waste disposal
[DE84-002575] 14 p2128 N84-23759
Stress-intensity factor equations for cracks in three-dimensional finite bodies subjected to tension and bending loads
[NASA-TM-85793] 14 p2157 N84-23925
An integral optical method for determining stress intensity factors 15 p2311 N84-24866
Optimal design of rotating disk with temperature gradient 15 p2313 N84-24877
Review of the application of fracture mechanics: Possibilities and actual limits
[GKSS-83-E-63] 15 p2349 N84-25098
On some current problems in experimental fracture dynamics
[AD-P003102] 16 p2466 N84-25807
A plate impact experiment for studying crack initiation at loading rates K(I) approximately 10(6) MPa m/s
[AD-P003103] 16 p2466 N84-25808
Dynamic crack growth criteria in structural metals
[AD-P003107] 16 p2467 N84-25812
Some theoretical results on the dependence of dynamic stress intensity factor on crack tip speed
[AD-P003109] 16 p2467 N84-25814
Viscoelastic effect on dynamic crack propagation in Homalite 100
[AD-P003115] 16 p2468 N84-25820
Stress intensity factors for slightly kinked, partially closed cracks in compression
[AD-A140550] 16 p2503 N84-26064
The K-distributions extrapolated on the basis of stress intensity rates
[NLR-MP-83048-U] 17 p2680 N84-27073
The dynamic steady-state propagation of an anti-plane shear crack in a general linearly viscoelastic layer
[AD-A140980] 18 p2853 N84-28115
Tensile strength of composite sheets with unidirectional stringers and crack-like damage
20 p3146 N84-29974
Solving crack problems with analytical techniques and the finite elements method
[BLL-RISLEY-TR-4940-(9091.9F)] 20 p3200 N84-30325
Calculation of crack behaviour on exposure to thermal shock
[BLL-RISLEY-TR-4941-(9091.9F)] 20 p3200 N84-30326
Methods for analysis of cracks in three-dimensional solids
[NASA-TM-86266] 20 p3201 N84-30330
Crack problems for bonded nonhomogeneous materials under antiplane shear loading
[NASA-CR-173892] 22 p3609 N84-32883
A review of chevron-notched fracture specimens
[NASA-TM-85797] 23 p3760 N84-33834
Prediction of crack extension direction in unidirectional composites
[VPI-E-84-27] 24 p3878 N84-34572
The use of adhesive-bonded rivets to lessen the reductions in fatigue life caused by rivet holes
[ARL-STRUC-REPT-399] 24 p3887 N84-34617
On stress analysis of a crack-layer
[NASA-CR-174774] 24 p3912 N84-34774

STRESS MEASUREMENT

NT X RAY STRESS MEASUREMENT
Instruction manual for the use of the CSIR triaxial rock stress measuring equipment
[CSIR-ME-1763] 04 p0538 N84-13535
We need simplicity and speed. Some examples of simple and fast methods for the measurement of deformations of structures
[NLR-MP-82021-U] 06 p0862 N84-15616
A method for stratigraphic correlation of several boreholes
[CSIR-TWISK-281] 07 p1032 N84-16692
Structural deformation: A comprehensive survey of modern measurement methods
[NLR-TR-82021-U] 12 p1827 N84-21909
Measurement of hydrogen in high strength steels using the barnacle electrode
[AD-A139655] 15 p2297 N84-24784
Impact and fatigue of graphite/epoxy laminates
15 p2310 N84-24862
An integral optical method for determining stress intensity factors 15 p2311 N84-24866
Results of a study of residual stresses and fatigue crack growth in lugs with expanded holes
[NLR-MP-83024-U] 15 p2349 N84-25100
Deposition stress effects on thermal barrier coating burner rig life
[NASA-TM-83670] 16 p2470 N84-25830
Stress gages
[AD-B080780] 16 p2495 N84-26012
Development of an instrumented riser joint — for offshore platforms stress measurement
17 p2629 N84-26818
Geoacoustic method for continuous monitoring of stressed-strained state of Earth's crust
17 p2706 N84-27231
Stress transducer interpretation analysis and stability data 20 p3143 N84-29957
Residual stress measurements using shear-horizontal waves from electromagnetic acoustic transducers
[PB84-190636] 20 p3176 N84-30171
Method and apparatus for measuring stress
[DE84-011035] 20 p3203 N84-30347
Calibration of CT-4A fatigue test article, March 1983
[AD-A142880] 21 p3328 N84-31115
The effects of deformation mode and microstructure fracture-related properties of Ti alloys
[AD-A142891] 21 p3366 N84-31353
In situ goniometer
[CETIM-5.41.22.0] 21 p3407 N84-31609
The hole drilling method for residual stress distribution measurement
[CETIM-100730] 21 p3424 N84-31720
Evaluation of the gravity relevance on bone stresses by in vivo measurements 23 p3808 N84-34148

STRESS RATIO

The effect of finite rotation on a problem in plastic deformation
[DE84-012627] 21 p3423 N84-31710

STRESS RELAXATION

Diffusive relaxation of stress concentrations at grain boundary cavities in elevated temperature creep
02 p0297 N84-11950

Stress production and relief in the gold/silicon eutectic die-attach process
[DE83-015230] 03 p0369 N84-12400
Stress-wave experiments on selected crustal rocks and minerals
[DE84-001613] 04 p0563 N84-13714
Hygrothermal effects in continuous fibre reinforced composites. Part 4: Mechanical properties 2 - fatigue and time-dependent properties
[AD-A135766] 09 p1276 N84-18333
Stress relaxation of cellular silicone material, 1983
[DE84-007103] 12 p1802 N84-21749
Effect of pressure on the mechanical properties of polymers, part 1
[DE84-006311] 13 p1985 N84-22765
Prediction of creep and creep relaxation of AL 2618 under variable multiaxial stresses
[AD-A139950] 15 p2297 N84-24788
Derating requirements and application rules for electronic components
[ESA-PSS-01-301-ISSUE-1] 16 p2484 N84-25930
The nonlinear viscoelastic response of resin matrix composite laminates
[NASA-CR-3772] 17 p2617 N84-26750

STRESS RELIEVING
The effect of post weld heat treatment on welds in steel structures
[VTT-RR-217] 07 p1013 N84-16570

STRESS RUPTURE STRENGTH
U CREEP RUPTURE STRENGTH

STRESS TENSORS
A tensor constitutive equation for turbulent flow
15 p2314 N84-24868
General condition of the limiting state for isotropic materials
[ISSN-0208-5658] 23 p3712 N84-33530

STRESS WAVES
Microstructural effects on wave propagation in solids
[DE83-012609] 01 p0096 N84-10628
Input-output characterization of an ultrasonic testing system by digital signal analysis
[NASA-CR-3756] 06 p0854 N84-15565
Introduction to acoustic emission
[NASA-TM-77068] 08 p1227 N84-18016
An extended range pendulous velocity gage
[AD-P002683] 11 p1658 N84-20820
On the extremum of bilinear functional for hyperbolic type P.D.E.
[AD-P002942] 14 p2197 N84-24182
On the extremum of bilinear functional for hyperbolic type partial differential equations
[AD-A142505] 20 p3281 N84-30828
An analytical evaluation of spall suppression of impulsively loaded aluminum panels based on a 1-dimensional stress wave propagation model
[AD-A143173] 21 p3422 N84-31708
Detection of damage in hydraulic components by acoustic emission techniques
[AD-A143262] 22 p3607 N84-32850

STRESS-STRAIN DIAGRAMS
The ductility of metal diffusion coatings on nickel alloys and their characterization
[BLL-RISLEY-TRANS-4883] 12 p1795 N84-21706
Nonlinear vibrations of a rubber support system constrained by a fixed surface 15 p2313 N84-24878

STRESS-STRAIN DISTRIBUTION
U STRESS CONCENTRATION

STRESS-STRAIN RELATIONSHIPS
Forced vibration of Timoshenko beams of multimodular materials
[AD-A130372] 01 p0095 N84-10617
Application of FRACTOMAT/KRAK GAGES to crack growth measurements in structural components
[AD-A130945] 01 p0095 N84-10620
On the optimal design of bidirectional composites
[AD-A131353] 02 p0188 N84-11221
Material characterization of structural adhesives in the lap shear mode
[NASA-CR-172237] 02 p0199 N84-11294
Analysis of nonuniform deformation in ductile single crystals 02 p0297 N84-11951
Generalized plastic hinge concepts for 3D beam-column elements
[PB83-247981] 04 p0516 N84-13391
Probabilistic fatigue life predictions of structural components in high-cycle fatigue regimes
[AD-A132425] 04 p0549 N84-13615
The emergence and propagation of a phase boundary in an elastic bar
[AD-A132275] 04 p0549 N84-13616
Determining stresses in the presence of nonlinearities in interplanar spacing versus Sin squared Psi
[AD-A132365] 04 p0612 N84-14041
Particulate erosion mechanisms
[NASA-TM-83551] 05 p0652 N84-14289
A simplified method for elastic-plastic-creep structural analysis
[NASA-TM-83509] 05 p0692 N84-14542
Mechanical response of materials with physical defects. Part 3. A material testing program for size and rate effects
[AD-A133782] 05 p0693 N84-14548
Coupled diffusion and deformation theory: Hygrothermal stress distribution around crack-like defects
05 p0694 N84-14558
The 1-dimensional structured phase transformations under prescribed loads
[AD-A132807] 05 p0736 N84-14835
Modelling particle - particle interaction at the micro scale
[AD-A133969] 05 p0744 N84-14885
Fatigue damage-strength relationships in composite laminates. Volume 1
[AD-A133485] 06 p0799 N84-15206
Tensile and compressive constitutive response of 316 stainless steel at elevated temperatures
[NASA-TM-83506] 06 p0805 N84-15249
Asymmetric turbulent flows 06 p0837 N84-15451
Theoretical and experimental determination of stress-strain of high-pressure equipment
[BLL-M-35287-(5828.4)] 06 p0856 N84-15574
A comprehensive numerical study and experimental verification of endochronic plasticity
06 p0856 N84-15579
Stress-state index and Nadai-Lode parameter
[BLL-M-35433-(5828.4)] 06 p1169 N84-17612
Integrated evaluation of tensile strengths and ductility limits
[BLL-M-35452-(5828.4)] 06 p1169 N84-17613
The high temperature viscoplastic fatigue behavior of IN-100 using the Bodner-Partom flow law
[AD-A135867] 09 p1282 N84-18375
The basic ply properties of a Kevlar 49/epoxy resin composite system
[AD-A136614] 09 p1286 N84-18397
POSTOP: Postbuckled open-stiffener optimum panels-theory and capability
[NASA-CR-172259] 09 p1329 N84-18679
Calculations for uniaxial stress and strain cycling in plasticity
[AD-A135800] 09 p1332 N84-18698
Inelastic deformation of metals and structures under dynamic and quasi-static cyclic loading
[AD-A136022] 09 p1332 N84-18700
Applicability of Hart's state variable model to large strain rate ranges
[DE84-004878] 10 p1462 N84-19549
Modeling the mechanical behavior of elastomeric styrene-butadiene-styrene block copolymers
11 p1635 N84-20693
Mechanical and physical properties of poly(vinylidene fluoride) at high pressures and temperatures
[AD-A137842] 11 p1637 N84-20705
Development of a simplified procedure for cyclic structural analysis
[NASA-TP-2243] 11 p1667 N84-20678
Study of the effects of metallurgical factors on the growth of fatigue microcracks
[AD-A137954] 11 p1669 N84-20688
Evaluation of adhesive materials for bonded sheath cable designs 11 p1721 N84-21226
Laser Doppler velocimetry measurements of mean velocity and turbulent stress tensor components in a free isothermal swirling jet
[UTIAS-281] 12 p1815 N84-21830
Simultaneous analysis and design
[NASA-CR-172334] 12 p1826 N84-21902
Stresses in a submarine topography under ocean waves
[DE84-005722] 12 p1863 N84-22139
Matrix-dominated time-dependent deformation and damage of graphite/epoxy composite experimental data under creep and recovery
[AD-A139064] 13 p1954 N84-22704
Deformation studies of polymers by Fourier transform infrared spectroscopy 13 p1962 N84-22751
Study of large viscoplastic strains in cylindrical shells by method of magnetic-pulse loading
13 p1972 N84-22796
New theory for thick, composite-material rings
[AD-A138538] 13 p2001 N84-22981
CLFE2D: A generalized plane strain finite element program laminated composites subject to mechanical and hygrothermal loading
[NASA-CR-173507] 14 p2157 N84-23921
Stress distribution in a cylindrical bar subjected to cyclic torsional loading
[AD-A139413] 14 p2158 N84-23929
A simple approach for determination of bursting pressure of a thick-walled cylinder
[AD-P002956] 14 p2199 N84-24196
Finite element analysis of fabrics with nonlinear stress-strain laws
[AD-P002977] 14 p2202 N84-24213
Solid propellant nonlinear constitutive theory extension
[AD-A139957] 15 p2304 N84-24823
Fatigue damage and crack growth in random short-fiber reinforced composites 15 p2308 N84-24847
Plasticity of laminated composites
15 p2308 N84-24849
Effective elastic moduli of an isotropic, two-phase composite 15 p2309 N84-24852
Thermodynamic model of creep at constant stresses and constant strain rates
[AD-A139683] 15 p2317 N84-24908
Influence of soft inclusions on the strength of wrought materials
[NASA-CR-173610] 16 p2464 N84-25791
Applying molecular dynamics to fracture
[AD-P003104] 16 p2467 N84-25809
Elastoplastic double-wall shells under intricate nonisothermal load 17 p2651 N84-26951
Stressed and strained state of cylindrical shells reinforced with hoops 17 p2651 N84-26952
Influence of microstructure, stress-state and environment on superplastic flow and fracture in glass-ceramics 17 p2677 N84-27050
Plastic behavior of 304 stainless steel under plastic-strain controlled loading conditions
17 p2677 N84-27051
The role of anelastic strain in the cyclic creep behavior of a particle strengthened alloy
17 p2677 N84-27053
Finite element analysis of bonded joints
[AD-A140559] 17 p2680 N84-27066
Response and performance of contingency airfield pavements containing stabilized material layers
[AD-A141466] 19 p2969 N84-28617
A computer program for predicting nonlinear uniaxial material responses using viscoplastic models
[NASA-TM-83675] 19 p3034 N84-29247
A theory of rate-dependent plasticity
[AD-A142102] 19 p3036 N84-29260
Determination of failure characteristics of materials and structures
[AD-A142310] 19 p3037 N84-29262
Fracture initiation in glass-reinforced plastics under impact compression
[OUEL-1516/84] 19 p3037 N84-29265
Synthesis of diazidodiesters 20 p3143 N84-29956
Surface layer effects on the mechanical behavior of metals
[AD-A142280] 20 p3152 N84-30018
New experimental technique with the split Hopkinson pressure bar
[DE84-003818] 20 p3190 N84-30268
The effect of finite rotation on a problem in plastic deformation
[DE84-012827] 21 p3423 N84-31710
Statistical inference for reliability from stress strength relationships: The normal case
[AD-A142893] 21 p3472 N84-32005
Free bulging of round diaphragm exposed to uniform pressure in state of creep
[BLL-M-35680-(5828.4)] 22 p3608 N84-32861
General condition of the limiting state for isotropic materials
[ISSN-0208-5658] 23 p3712 N84-33530
Acta armamentarii (selected articles)
[AD-A143904] 23 p3726 N84-33610
Erosion mechanisms of metals
[AD-A144194] 24 p3884 N84-34605

STRESS-STRAIN-TIME RELATIONS
Stress distribution in a cylindrical bar subjected to cyclic torsional loading
[AD-P002957] 14 p2199 N84-24197
Time dependent quasifracture nucleation and propagation 15 p2349 N84-25097

STRESSES
NT AXIAL STRESS
NT COMBINED STRESS
NT CRITICAL LOADING
NT RESIDUAL STRESS
NT REYNOLDS STRESS
NT SHEAR STRESS
NT TENSILE STRESS
NT THERMAL STRESSES
NT TORSIONAL STRESS
NT TRIAXIAL STRESSES
NT VIBRATIONAL STRESS
Solvent stress-cracking study for a matrix material
[DE83-014075] 02 p0188 N84-11224
Dynamic heterogeneous response of aluminum and copper to stress waves
[DE83-015229] 02 p0232 N84-11522

Inference of fatigue-crack closure stresses from ultrasonic-transmission measurements
[DE83-017884] 03 p0390 N84-12547
On the wind stress - sea level power law
[AD-A132035] 03 p0410 N84-12681
Statistical analysis of Kevlar 49/epoxy composite stress-rupture data
[DE84-000516] 04 p0492 N84-13230
Absolute determination of stress in textured materials
[DE83-018083] 04 p0550 N84-13621
Stress assessment through voice analysis
[AD-A132577] 04 p0573 N84-13773
Determining stresses in the presence of nonlinearities in interplanar spacing versus Sin squared Psi
[AD-A132365] 04 p0612 N84-14041
Theoretical and software considerations for nonlinear dynamic analysis
[NASA-CR-174504] 08 p0858 N84-15589
Mechanical regulation of plant growth and development 09 p1355 N84-18858
Measurement of thigmomorphogenesis and gravitropism by non-intrusive computerized video image processing
09 p1356 N84-18859
The roles of calcee, elicitors and ethylene in thigmomorphogenesis and gravitropism
09 p1356 N84-18860
Composite ring-disk flywheel design, fabrication and testing
[DE84-004761] 10 p1453 N84-19488
Molecular dynamics studies of structural transformation in solids
[DE84-006409] 12 p1916 N84-22481
Factors influencing thermomechanical failure of face seals, 3
[AD-A138546] 13 p1997 N84-22961
Finite element model to compute stresses in composite masonry due to creep, shrinkage and temperature
[PB84-152578] 14 p2159 N84-23933
Prediction of creep and creep relaxation of AL 2618 under variable multiaxial stresses
[AD-A139950] 15 p2297 N84-24788
The yield stress of type 21-6-9 stainless steel over a wide range of strain rate (10(-5) to 10(4) s(-1)) and temperature
[DE84-000914] 15 p2298 N84-24793
H Division materials physics
[DE84-007789] 15 p2304 N84-24826
An expression of strain energy involving couple stresses in solids 15 p2313 N84-24880
Stresses in and around double confocal spheroids embedded in infinite media 15 p2314 N84-24883
Some crazing experiments on As-cast acrylic to MIL-P-8184
[AD-P003198] 17 p2501 N84-26609
NASTRAN analysis of nuclear effects on helicopter transparencies
[AD-P003234] 17 p2597 N84-26647
Theoretical evaluation of the structural performance of Swedish fighter aircraft windshields subjected to bird impact
[AD-P003235] 17 p2597 N84-26648
Effect of elastically suspended masses on stability of elastic panels in supersonic stream
17 p2650 N84-26949
Three-dimensional stressed state of longitudinally corrugated elastic cylinders 17 p2651 N84-26950
Finite element thermal-structural analysis of cable-stiffened space structues
[NASA-CR-173709] 18 p2852 N84-28106
Effect of refractory elements on the coherency strain and flow stress on nickel-base superalloys
[AD-A142220] 19 p2904 N84-28975
Variation in coefficient accounting for influence of external zones with variation in contact friction conditions — metal working
[BLL-M-35598-(5828.4)] 19 p3031 N84-29222
Criterion for quasibrittle crack growth
[DE84-010052] 20 p3203 N84-30349
USSR report: Physics and mathematics
[JPRS-UPM-84-001] 20 p3285 N84-30862
Invention of a tunable damper for use with an acoustic waveguide in hostile environments
[DE84-013109] 20 p3292 N84-30897
Dynamic overstresses in fibrous polymeric materials
[DE84-012605] 21 p3372 N84-31394
New approach to the effective stress principle
[DE84-006963] 21 p3401 N84-31574
New variational formulations of hybrid stress elements
21 p3420 N84-31690
Interdependence of equivalent steady stress, crack growth and failure on sequence and amplitude of irregular loading
[AD-A142951] 21 p3422 N84-31707
Loss factors measured in metal matrix composite materials
[AD-A143542] 22 p3545 N84-32440
Review of the strength of brittle rock materials
23 p3722 N84-33586
Strength of gypsum in complex states of stress
23 p3722 N84-33588
Generation of reactive stresses in TiNi alloy
24 p3875 N84-34556

STRETCH FORMING
Uniaxial draw of poly(ethylene oxide) by solid state extrusion
[AD-A141923] 20 p3161 N84-30074

STRETCHING
Relationship between morphology and mechanical properties of ultra high molecular weight polyethylene
[PB83-240960] 02 p0202 N84-11317
Wave propagation from moving singularities and a unified exposition of the linearized theory for aerodynamics and acoustics
[DFVLR-FB-84-17] 19 p3010 N84-29080
A study of the drawing process for optical fibers
[AD-A142930] 21 p3498 N84-32171
Effect of stretch rate on texture and mechanical properties of nickel-cobalt alloys
24 p3869 N84-34521

STRIATION
Effect of hydrodynamic flow on the morphology of electrodeposited zinc
[DE84-001816] 05 p0651 N84-14281
The temporal evolution of short scale striations in the heated ionosphere 05 p0706 N84-14631
Surface disturbances due to trailing vortices
[AD-A142693] 20 p3184 N84-30233

STRINGERS
Tranamission electron microscopy characterization of microstructural features of Al-Li-Cu alloys
[NASA-TM-84384] 02 p0193 N84-11255
A surface analytical examination of Stringer particles in Al-Li-Cu alloys
[NASA-TM-85854] 02 p0193 N84-11257
Interaction between local and overall buckling modes in axially stiffened cylindrical shells
[UTIAS-247] 09 p1328 N84-18674
Tensile strength of composite sheets with unidirectional stringers and crack-like damage
20 p3146 N84-29974

STRIP MINING
Mapping project on land use changes in the carboniferous region of Santa Catarina
[NASA-CR-173946] 23 p3763 N84-33853
Far north as source of nonferrous metals
24 p3874 N84-34551

STRIP TRANSMISSION LINES
NT MICROSTRIP TRANSMISSION LINES
An investigation of strip lines and fin lines with periodic stubs
[AD-A134430] 07 p0997 N84-16466
Broadband microstrip matching techniques
[AD-P003506] 21 p3384 N84-31474
Wideband microstrip ring radiator
[AD-P003507] 21 p3384 N84-31475
On the modeling of electromagnetically coupled microstrip antennas: The printed strip dipole
[AD-A143927] 23 p3731 N84-33651
Calculation of the excess inductance of a microstrip discontinuity
[AD-A143819] 23 p3742 N84-33718

STRIPPING
Improved paint rsmoval technique
[AD-A136671] 10 p1467 N84-19580

STROKES
The influence of ground conductivity on the structure of RF radiation from return strokes
[NASA-TM-86065] 12 p1860 N84-22117

STRONG INTERACTIONS (FIELD THEORY)
Lattice gauge theories
[DE83-013114] 06 p0910 N84-15906
Matter antimatter domains: A possible solution to the CP domain wall problem in the early universe
[NASA-TM-86100] 15 p2425 N84-25565

STRONGLY COUPLED PLASMAS
Studies of an inductively coupled plasma with a Fourier-transform spectrometer
[DE83-014194] 01 p0151 N84-10991
Unified theory of plasma correlations
[AD-A131478] 02 p0296 N84-11938
Strong coupling effects on bound states in plasmas
[AD-A131661] 03 p0444 N84-12918
Study to synthesize and interpret data from several satellites and ground magnetometers
[AD-A132670] 05 p0703 N84-14616
Jet-impact nebulization for sample introduction in inductively coupled plasma spectrometry
[AD-A133152] 06 p0920 N84-15982
Fourier transform and polychromator studies of the inductively coupled plasma
[DE84-003975] 08 p1233 N84-18059
A detailed consideration of resonance radiation trapping in the argon inductively coupled plasma
[AD-A136633] 09 p1391 N84-19085
Atomic structure in strongly coupled neon plasmas
[AD-A137341] 10 p1576 N84-20327
Mini, micro, and high-efficiency torches for the ICP (Inductively-Coupled Plasma): Toys or tools?
[AD-A138144] 12 p1909 N84-22440
Optical imaging of a coupling region between inter-streaming plasmas
[AD-A139191] 14 p2224 N84-24348
Research in dense plasma atomic physics
[AD-A141538] 19 p3107 N84-29740
High-latitude ionospheric irregularities
[AD-A142648] 20 p3241 N84-30573

STRONTIUM
NT STRONTIUM ISOTOPES

STRONTIUM COMPOUNDS
NT STRONTIUM FLUORIDES
Temperature-compensated piezoelectric materials
[AD-A139279] 14 p2242 N84-24460
High temperature and post irradiation piezoelectric properties of strontium niobate, Sr2Nb2O7
[AERE-R-11112] 18 p2820 N84-27906

STRONTIUM FLUORIDES
Research and crystal growth on high dielectric constant materials for mm wave applications
[AD-A136281] 09 p1394 N84-19102

STRONTIUM ISOTOPES
Geochemistry, age and strontium composition of late tertiary and quaternary basalts and andesites in western Nevada and their relation to geothermal potential
[DE84-012404] 21 p3444 N84-31852

STRUCTURAL ANALYSIS
NT DYNAMIC STRUCTURAL ANALYSIS
NT ENERGY METHODS
NT EQUILIBRIUM METHODS
NT FLUTTER ANALYSIS
NT MATRIX METHODS
NT STRAIN ENERGY METHODS
Development of deployable structures for large space platforms. Volume 2: Design development
[NASA-CR-170914] 01 p0028 N84-10176
Project scattering of elastic waves
[DE83-013574] 01 p0068 N84-10444
Limit analysis of plates by a finite element approach
01 p0093 N84-10604
MAGNA (Materially And Geometrically Nonlinear Analysis). Part 2: Preprocessor manual
[AD-A129025] 01 p0120 N84-10782
MAGNA (Materially And Geometrically Nonlinear Analysis). Part 4. Quick-reference manual
[AD-A129026] 01 p0120 N84-10783
A methodology for exploiting parallelism in the finite element process
[NASA-CR-172219] 01 p0127 N84-10831
Aeroelasticity and optimization at the design stage
02 p0172 N84-11131
Investigation of water rotor turbofans for Cruise Missile engines, volume 2
[AD-A131168] 02 p0180 N84-11173
Low-temperature forming of beta titanium alloys
[NASA-CR-3706] 02 p0193 N84-11253
On setting up boundary conditions for soil-structure interaction problems with DYNALK (a ling from TENSOR to DYNA3D)
[DE83-016914] 02 p0206 N84-11344
Characterization of conservatism in mechanical shock testing of structures
[DE83-013524] 02 p0232 N84-11521
MINIVER upgrade for the AVID system. Volume 3: EXITS user's and input guide
[NASA-CR-172214] 02 p0271 N84-11773
On the structure of the turbulent vortex
03 p0321 N84-12102
Control of flexible spacecraft by optimal model following 03 p0342 N84-12222
Evaluation of the kinematic variable (back stress) response of metals
[DE83-006381] 03 p0353 N84-12293
Analytical response of concrete structures subjected to high temperatures
[DE83-009625] 03 p0389 N84-12538
Design, development and use of the finite element machine
[NASA-CR-172250] 03 p0424 N84-12777
A thin-walled beam finite element
[TT-8302] 03 p0425 N84-12779
NASTRAN structural model for the large 64-meter antenna pedestal. Part 2: Improved model
04 p0519 N84-13412
NOSTRUM: A finite element program for nonlinear structural mechanics
[TR-16] 04 p0587 N84-13881

Nonlinear oscillations of a fluttering panel in a transonic airstream
[AD-A133918] 05 p0627 N84-14124
Research on composite materials for structural design
[AD-A134059] 05 p0645 N84-14242
Structure and phase transitions in bromine and potassium-mercury intercalated graphite
[AD-A133863] 05 p0645 N84-14244
Numerical methods for jointed media and structures 05 p0691 N84-14538
Wave attenuation in damped periodic structures
[AD-A133736] 05 p0693 N84-14550
ANSR-3: General purpose computer program for nonlinear structural analysis
[PB83-251330] 05 p0694 N84-14556
New elements for analysis of space frames with tapered members 05 p0695 N84-14561
Computer-Aided Structural Engineering (CASE) project. User's guide: Computer program to Calculate Shear, Moment and Thrust (CSMT) from stress results of a two-dimensional finite element analysis
[AD-A134089] 05 p0726 N84-14768
ACOSS Fourteen (Active Control of Space Structures)
[AD-A133411] 06 p0795 N84-15181
User's manual for GAMNAS: Geometric and Material Nonlinear Analysis of Structures
[NASA-TM-85734] 06 p0798 N84-15200
Thermal analysis research applicable to space station technology needs
[NASA-TM-84658] 06 p0834 N84-15426
Eleventh NASTRAN User's Colloquium
[NASA-CP-2284] 06 p0858 N84-15590
NASA/MSFC NASTRAN auxiliary I/O routines 06 p0858 N84-15592
Using PAFEC as a preprocessor for COSMIC/NASTRAN 06 p0858 N84-15593
The GPRIME approach to finite element modeling 06 p0859 N84-15594
Generalizing the TRAPRG and TRAPAX finite elements 06 p0859 N84-15596
Dynamic certification of a thrust-measuring system for large solid rocket motors 06 p0860 N84-15603
A new method for generating and maintaining rigid formats in NASTRAN 06 p0860 N84-15605
Implementation of elastic-plastic structural analysis into NASTRAN 06 p0860 N84-15606
Elastic-plastic analysis of annular plate problems using NASTRAN 06 p0861 N84-15607
Bolt in bore boundaries 06 p0861 N84-15608
Analysis of plates by the initial-value method 06 p0863 N84-15622
Efficient large-scale finite-element computations in a CRAY environment
[DE83-014946] 06 p0896 N84-15818
A survey of solution techniques for nonlinear finite element equations
[NLR-MP-82027-U] 06 p0903 N84-15861
Effect of blade structural parameters on helicopter vibrational characteristics
[AD-A134547] 07 p0951 N84-16174
Transactions of the Japan Society for Aeronautical and Space Sciences, vol. 26, no. 73, November 1983
[ISSN-0549-3811] 07 p0984 N84-16374
Self-shadowing of orbiting trusses
[NASA-CR-173215] 07 p1012 N84-16565
Low concentration ratio solar array structural configuration 08 p1111 N84-17225
Development of a thermal and structural model for a NASTRAN finite-element analysis of a hypersonic wing test structure
[NASA-CR-170413] 08 p1170 N84-17620
Use of small crack data to bring about and quantify improvements to aircraft structural integrity
[AD-A135012] 08 p1170 N84-17623
Structures and mechanisms 09 p1269 N84-18286
Development and application of optimization techniques for composite laminates
[AD-A135832] 09 p1276 N84-18330
Status, needs, and opportunities for structural ceramics in advanced heat engines
[DE84-003307] 09 p1289 N84-18413
Integrity control of carbon fiber reinforced plastics structural elements, phase 1 report — space applications
[TB-TS-11-01/82-A] 09 p1289 N84-18416
Modeling of transient heat pipe operation
[NASA-CR-173305] 09 p1312 N84-18575
Reanalysis methods for structures with laser induced damage
[AD-A135874] 09 p1322 N84-18638
Structural efficiency studies of corrugated compression panels with curved caps and beaded webs
[NASA-TP-2272] 09 p1329 N84-18675
The NASTRAN theoretical manual
[NASA-SP-221(06)] 09 p1329 N84-18677
Component mode synthesis and large deflection vibrations of complex structures — beams and trusses
[NASA-CR-173338] 09 p1329 N84-18680
Engine cyclic durability by analysis and material testing
[NASA-TM-83577] 09 p1330 N84-18683
Development of a stress-dependent finite element slab model
[AD-A135836] 09 p1332 N84-18694
Reinforced concrete response to near field explosions
[AD-A135876] 09 p1332 N84-18696
Structural analysis of air outflow from low layers of intense thundercloud
[AD-A136500] 09 p1348 N84-18810
Estimation of parameters in linear structural relationships: Sensitivity to the choice of the ratio of error variances
[NASA-CR-171756] 09 p1372 N84-18958
Evaluation of the crack growth gage concept as an individual aircraft tracking device, volume 2
[AD-A136933] 10 p1428 N84-19341
The effect of mass and stiffness changes on the damping factor in a large space structure as represented by the CSDL 2 model
[AD-A136984] 10 p1449 N84-19465
Properties of carbon fibers with various coatings
[NASA-TM-77027] 10 p1464 N84-19563
Detection of electromagnetic radiation leakage through small structural openings
[AD-A137407] 10 p1479 N84-19667
Dynamics of a simple system subjected to random impact 10 p1511 N84-19869
Computer aided synthesis of a satellite antenna structure with probabilistic constraints 10 p1512 N84-19899
Simple approximate models for a class of structures 10 p1515 N84-19921
Comparison of statistical energy analysis and finite element analysis vibration prediction with experimental results 10 p1516 N84-19923
Evaluation of NASA structural analysis (NASTRAN) to predict the dynamic response of reinforced concrete
[AD-A137244] 10 p1517 N84-19929
Analyzing sliding stability of structures using the modified computer program GWALL, revision
[AD-A136954] 10 p1517 N84-19934
Buckling of stiffened cylindrical bins under wind loading
[PB84-137926] 10 p1518 N84-19941
Supplement to the technical assessment of geoscience-related research for geothermal energy technology
[DE84-002373] 10 p1530 N84-20020
Introduction to GEMINI
[DE84-005058] 10 p1564 N84-20248
Mathematical models for damageable structures
[AD-A136574] 10 p1572 N84-20298
Space Shuttle main engine powerhead structural modeling, stress and fatigue life analysis. Volume 1: Gasdynamic environment of the SSME HPFTP and HPOTP turbines
[NASA-CR-170999] 11 p1625 N84-20635
Space Shuttle main engine powerhead structural modeling, stress and fatigue life analysis. Volume 2: Dynamics of blades and nozzles SSME HPFTP and HPOTP
[NASA-CR-171000] 11 p1625 N84-20636
Space Shuttle main engine powerhead structural modeling, stress and fatigue life analysis. Volume 3: Stress summary of blades and nozzles at FPL and 115 percent RPL loads. SSME HPFTP and HPOTP blades and nozzles
[NASA-CR-171001] 11 p1625 N84-20637
A pseudo-elastic material damage model involving local stiffness change and crack growth 11 p1667 N84-20873
Development of a simplified procedure for cyclic structural analysis
[NASA-TP-2243] 11 p1667 N84-20878
Static and dynamic structural-sensitivity derivative calculations in the finite-element-based Engineering Analysis Language (EAL) system
[NASA-TM-85743] 11 p1668 N84-20880
Bending of beams subjected to transverse impacts
[AD-A137840] 11 p1668 N84-20884
Design of array processor software for nonlinear structural analysis
[AD-A137767] 11 p1706 N84-21124
An accurate and economical plate-bending hybrid finite element 11 p1712 N84-21163
Dynamic assessment of B-52B-006 carrier aircraft for the revised Space Shuttle solid rocket booster decelerator subsystem drop test vehicle
[NASA-CR-170989] 12 p1779 N84-21606
Re-design and fabrication of titanium multi-wall Thermal Protection System (TPS) test panels
[NASA-CR-172247] 12 p1780 N84-21610
The NASTRAN user's manual
[NASA-SP-222(06)] 12 p1825 N84-21899
Simultaneous analysis and design
[NASA-CR-172334] 12 p1826 N84-21902
Structural deformation: A comprehensive survey of modern measurement methods
[NLR-TR-82021-U] 12 p1827 N84-21909
Effects of vegetation canopy structure on microwave scattering 12 p1832 N84-21942
Mathematical synthesization of complex structures 12 p1876 N84-22224
Crack layer theory
[NASA-CR-174834] 13 p2001 N84-22980
New theory for thick, composite-material rings
[AD-A138538] 13 p2001 N84-22981
CASE (Computer-Aided Structural Engineering) study of 6 major general-purpose finite element programs
[AD-A139065] 13 p2001 N84-22988
Properties of simulated comet mantle 13 p2076 N84-23452
Interpretation of planetary stress systems: Determination of tectonic over-printing in Northwest Wyoming 13 p2090 N84-23540
Analytical results for postbuckling behavior of plates in compression and shear
[NASA-TM-85766] 14 p2157 N84-23922
Dynamic response of concrete and concrete structures
[AD-A139294] 14 p2158 N84-23926
The influence of cutouts on transient response of hemispherical shells
[AD-P002943] 14 p2197 N84-24183
Orthogonal schemes for structural optimization
[AD-P002954] 14 p2199 N84-24194
NASA/Howard University Large Space Structures Institute
[NASA-CR-173425] 14 p2244 N84-24476
Megamechanics research Consortium 14 p2244 N84-24477
Mathematical analysis 14 p2245 N84-24479
Optimization of space structures 14 p2245 N84-24480
The mechanical properties of carbon fibre with glass fibre reinforced plastics 15 p2284 N84-24710
Nonlinear analysis of laminated, bimodular composite material structures
[AD-A139942] 15 p2285 N84-24714
On the analysis of thick walled composite material cylindrical shells 15 p2311 N84-24867
Integrated analysis and design for multi-level performance criteria 15 p2314 N84-24885
Interactive creation of instructions for interactive graphic analysis (INGA)
[ISD-300] 15 p2390 N84-25337
Gaussian quadrature formulae for tetrahedronal regions
[ISD-307] 15 p2396 N84-25377
A theoretical analysis of the aerodynamic and structural forces associated with a ribbon parachute canopy in steady descent 16 p2443 N84-25671
Technology for large space systems: A bibliography with indexes
[NASA-SP-7046(10)] 16 p2454 N84-25736
Study of ERS-1 dynamic interaction. Volume 1: Theoretical notes
[ER-RP-A1-002-VOL-1] 16 p2456 N84-25747
On the space shuttle wing thermal-structural analysis 16 p2457 N84-25755
Innovative structures for space applications
[GAC-19-1563] 16 p2458 N84-25757
A new method of analysis of composite structures
[SNIAS-832-210-105] 16 p2461 N84-25773
Short pulse fracture mechanics
[AD-P003105] 16 p2467 N84-25810
Cumulative creep damage for polycarbonate and polysulfone
[NASA-CR-173433] 16 p2471 N84-25840
La Recherche Aerospatiale, Bimonthly Bulletin, no. 1983-6, 217/November-December
[ESA-TT-841] 16 p2476 N84-25870
A nonlinear model of laminated plate, using combined variables 16 p2476 N84-25875
Statistical correlation of structural mode shapes from test measurements and NASTRAN analytical values
[NASA-TM-86044] 16 p2501 N84-26054
Technical and cost benefits of lightweight, stretched-membrane heliostats
[DE83-009406] 16 p2513 N84-26124
On the structure and forcing of tropospheric stationary waves 16 p2527 N84-26225
Discourse structures for text generation
[AD-A140278] 16 p2546 N84-26342
The Airbus: The state-of-the-art today, and future developments
[MBB-UT-22-83-O] 16 p2562 N84-26437

Validation of the MAGNA (Materially and Geometrically Nonlinear Analysis) computer program for nonlinear finite element analysis of aircraft transparency bird impact
[AD-P003229] 17 p2596 N84-28642
MAGNA (Materially and Geometrically Nonlinear Analysis) computer simulation of bird impact on the F-15 aircraft canopy
[AD-P003230] 17 p2597 N84-28643
Space structure vibration modes: How many exist? Which ones are important?
[NASA-CR-173442] 17 p2615 N84-26736
ICAN: Integrated composites analyzer
[NASA-TM-83700] 17 p2618 N84-26755
Interply layer degradation effects on composite structural response
[NASA-TM-83702] 17 p2618 N84-26756
Processing and properties of airframe materials
[AD-A140832] 17 p2624 N84-26797
Material damage and structural instability analysis: Local and global stationary values of the strain energy density function 17 p2678 N84-27057
A triangular anistropic thin shell element based on discrete Kirchoff theory 17 p2678 N84-27060
Application of micropolar elasticity to the finite element continuum analysis of articulated structures 17 p2679 N84-27064
Experimental investigation of elastic mode control on a model of a transport aircraft
[NASA-CR-3472] 18 p2792 N84-27721
A study of ultrafine porosity in hydrated cements using small angle neutron scattering
[AERE-R-10954] 18 p2820 N84-27907
Effect of laminated structure in materials based on complexes with charge transfer 18 p2826 N84-27943
Method for summing Gaussian beams in isotropic elasticity theory 18 p2862 N84-28171
Recent developments: PKI square dish for the Soleras Project 18 p2873 N84-28237
An implementation of the distributed programming structural synthesis system (PROSSS)
[NASA-TM-83253] 18 p2920 N84-28518
Response and performance of contingency airfield pavements containing stabilized material layers
[AD-A141466] 19 p2969 N84-28817
Analysis of nonuniform dielectric waveguides for millimeter-wave applications
[AD-A141406] 19 p3013 N84-29096
Concrete behavior under dynamic tensile-compressive load
[AD-A141735] 19 p3036 N84-29255
A theory of rate-dependent plasticity
[AD-A142102] 19 p3036 N84-29260
Determination of failure characteristics of materials and structures
[AD-A142310] 19 p3037 N84-29262
Preliminary concept of a 100-kilowatt miniaturized Cassegrainian concentrator solar array 19 p3047 N84-29332
Performance measurement of low concentration ratio solar array for space application 19 p3047 N84-29333
Preflight study of San Marco D/L GaAs solar cell panels 19 p3047 N84-29334
Preliminary space station solar array structural design study 19 p3047 N84-29335
Development and support structures for high-power solar arrays 19 p3048 N84-29336
Purdue plane structures analyzer 2: A computerized wood engineering system, 1983 version
[AD-A142042] 19 p3078 N84-29533
Error estimates for non-linear finite element computations
[AD-A141404] 19 p3084 N84-29571
Hybrid modeling of soil-structure interaction in layered media
[PB84-192178] 20 p3171 N84-30137
Effects of variations in coldworking repair procedures on flaw growth and structural life
[AD-A141986] 20 p3202 N84-30336
NASTRAN analysis comparison to shock tube tests used to simulate nuclear overpressures
[AD-A142290] 20 p3202 N84-30337
System identification of structures with joint rotation
[PB84-192210] 20 p3205 N84-30357
Hierarchial command, control and coupled bilinear systems
[AD-A142401] 20 p3280 N84-30623
The mechanical properties of carbon fibre with glass fibre hybrid reinforced plastics 21 p3357 N84-31292
Evaluation of a vibration technique for detection of barely-visible impact-damage in composites
[AD-A142807] 21 p3357 N84-31293
Use of theory of systems with dispersed parameters to formulate deformation resistance equations in pressure working of metals: Communication 2
[BLL-M-35595-(5828.4)] 21 p3363 N84-31337
Nonlinear Structural Analysis
[NASA-CP-2297] 21 p3419 N84-31688
New variational formulations of hybrid stress elements 21 p3420 N84-31690
A shear deformable shell element for laminated composites 21 p3420 N84-31691
Nonlinear finite element analysis of shells with large aspect ratio 21 p3420 N84-31692
Self-adaptive solution strategies 21 p3420 N84-31693
Element-by-element solution procedures for nonlinear structural analysis 21 p3420 N84-31694
Inelastic and dynamic fracture and stress analyses 21 p3421 N84-31697
Nonlinear analysis for high-temperature composites: Turbine blades/vanes 21 p3421 N84-31699
Three-dimensional stress analysis using the boundary element method 21 p3421 N84-31700
Preliminary study on elastoplasticity in large transformations
[CETIM-11-E-360] 21 p3424 N84-31719
NONAX-TRANAX-CASTOR 2D — structural analysis programs
[CETIM-100940] 21 p3424 N84-31721
Effects of cyclohexyl groups and ortho-substituents on the viscosity of ester liquid crystal components
[AD-A143028] 21 p3504 N84-32205
Liquid crystal materials for matrix displays
[AD-A143039] 21 p3504 N84-32206
Hygrothermal effects on mechanical behavior of graphite/epoxy laminates beyond initial failure
[NASA-TM-86001] 22 p3544 N84-32438
A simple rectangular element for 2-dimensional analysis of laminated composites
[NASA-TM-86291] 22 p3544 N84-32439
Creep transitions in aluminum solid-solution alloys 22 p3550 N84-32472
Modeling of concrete response at high temperature
[DE84-009587] 22 p3564 N84-32570
Development of shearography for nondestructive testing of highway structure
[PB84-187244] 22 p3565 N84-32577
Time-to-corrosion of reinforcing steel in concrete slabs. Volume 5: Calcium nitrite admixture or epoxy-coated reinforcing bars as corrosion protection systems
[PB84-195239] 22 p3565 N84-32578
NASTRAN structural model for the large 64-meter antenna pedestal. Part 3: Applications to hydrostatic bearing oil film 22 p3574 N84-32638
Microstructural analysis for series 300 stainless steel sheet welds and tensile samples
[DE84-006513] 22 p3605 N84-32837
Nonlinear elastic stability analysis of plane frames 22 p3607 N84-32853
Twelfth NASTRAN Users' Colloquium
[NASA-CP-2328] 22 p3609 N84-32864
Computer aided modeling and post processing with NASTRAN analysis 22 p3609 N84-32869
Design spectrum analysis in NASTRAN 22 p3609 N84-32870
Seismic analysis capability in NASTRAN 22 p3610 N84-32871
Transient response dynamic module modifications to include static and kinetic friction effects 22 p3610 N84-32872
Structural analysis of the support system for a large compressor driven by a synchronous electric motor 22 p3610 N84-32873
Finite element prediction of acoustic scattering and radiation from submerged elastic structures 22 p3610 N84-32874
Nonlinear analysis of a bolted marine riser connector using NASTRAN substructuring 22 p3610 N84-32875
Four new capabilities in NASTRAN for dynamic and aeroelastic analyses of rotating cyclic structures 22 p3611 N84-32876
Fatigue behavior of longitudinal transverse stiffener intersection
[PB84-202092] 22 p3612 N84-32887
Parameter estimation for the Euler-Bernoulli-beam
[NASA-CR-172417] 22 p3645 N84-33107
Theory of the electronic properties of mercury-cadmium-telluride alloys
[AD-A143426] 22 p3663 N84-33221
Experimental determination of the inertia constants of an airplane or of a missile
[NASA-TM-77767] 23 p3689 N84-33381
Improving the birdstrike resistance and durability of aircraft windshield systems: Program technical summary
[AD-A143712] 23 p3691 N84-33395
Process modeling of sheet metal forming of general shapes by the finite element method based on large strain formulation 23 p3716 N84-33557
High rate discharge studies of Li/SO2 batteries 23 p3737 N84-33680
Report of the working group on large-scale computing in aeronautics
[AGARD-AR-209] 23 p3813 N84-34177
Flight test techniques used for proof of structural integrity of Tornado when carrying external stores 24 p3849 N84-34413
USSR report: Materials science and metallurgy, no. 94
[JPRS-85025] 24 p3868 N84-34512
Effect of stretch rate on texture and mechanical properties of nickel-cobalt alloys 24 p3869 N84-34521
Advanced composite vertical stabilizer for DC-10 transport aircraft
[NASA-CR-173985] 24 p3878 N84-34573
Fracture modes in notched angleplied composite laminates
[NASA-TM-83802] 24 p3878 N84-34576

STRUCTURAL BASINS

NT CIRQUES (LANDFORMS)
NT COLUMBIA RIVER BASIN (ID-OR-WA)
NT DELAWARE RIVER BASIN (US)
NT KARST
NT MISSOURI RIVER BASIN (US)
NT RIVER BASINS
NT WATERSHEDS
Geophysics and tectonic development of the Caroline Basin
[AD-A131314] 02 p0258 N84-11686
Geologic study of the Wind River Basin, Fremont and Natrona Counties, central Wyoming
[PB83-254912] 03 p0409 N84-12677
Application of Heat Capacity Mapping Mission data to regional geologic analysis for mineral and energy resource evaluation
[E84-10078] 07 p1021 N84-16625
Geophysical exploration surveys for ground water in the San Pedro Basin, Arizona
[PB84-110808] 08 p1179 N84-17684
Mercury: New identification of ancient multi-ring basins and implications for geologic evolution 13 p2077 N84-23463
Ring spacing of Mercurian multi-ring basins and basin ring formation 13 p2078 N84-23464
Fluvial drainage systems: Margaritifer Sinus and Agyre (NC, NE) quadrangles, Mars 13 p2083 N84-23497
Multiprocess evolution of landforms in the Kharga Region, Egypt: Applications to Mars 13 p2086 N84-23511
Inversion of topography in Martian highlands terrains 13 p2086 N84-23512
Planned marine geophysical geological surveys of the Wilkes Land and Ross Sea margins 14 p2160 N84-23939
Southern Great Basin seismological data report for 1981 and preliminary data analysis
[DE84-005687] 15 p2369 N84-25213
Stratigraphy of the crater Copernicus 15 p2426 N84-25571
Forming of upper homogeneous layer in Mediterranean basin 17 p2699 N84-27195
Fossil fuels 19 p3037 N84-29267
Minerals 19 p3038 N84-29268
Oversees programs 19 p3038 N84-29272
An objective analysis technique for extrapolating tidal fields 20 p3222 N84-30471
An assessment of methods of geological basin analysis for application to the Uinta and Piceance Basins
[DE84-012369] 20 p3242 N84-30581
The geology and petroleum resources of basins in the Asian Arctic and offshore east Greenland
[DE84-012114] 21 p3431 N84-31772
Climatic change and streamflow in the southwest
[DE84-012658] 21 p3432 N84-31776
Geology of the Portrerillos District, Atacama, Chile 21 p3438 N84-31811
Origin and evolution of the West Philippine Basin 21 p3439 N84-31820
Microfacies, depositional models and diagenesis of Lagoa Feia Formation (lower cretaceous), Campos Basin, offshore Brazil 21 p3440 N84-31827
Geology of the Guslan and Southern Sierra de las Minas Quadrangles, Guatemala 21 p3441 N84-31834
Observations of radiation exchange above and below Amazonian forest
[INPE-3194-PRE/558] 21 p3447 N84-31870
Morphologic studies of the Moon and planets
[NASA-CR-173886] 22 p3678 N84-33319
Terra scarps indicating youngest terra faults on the Moon 23 p3841 N84-34365

Petrology of basement rocks of the California continental borderline and the Los Angeles Basin
24 p0917 N84-34801

STRUCTURAL BEAMS
U BEAMS (SUPPORTS)

STRUCTURAL DESIGN
NT PRESSURE VESSEL DESIGN
Optimum forebody shaping for axisymmetric submersibles with turbulent boundary layers and BLC (Boundary Layer Control) afterbodies
[AD-A130950] 01 p0079 N84-10515
Aeroelastic considerations in the design of high speed rotors 02 p0171 N84-11128
Preliminary design of aircraft using structural optimization methods 02 p0172 N84-11133
Evaluation of the kinematic variable (back stress) response of metals
[DE83-008381] 03 p0353 N84-12293
New conformal solution theory
[PB83-249441] 03 p0457 N84-13008
Optimization of structures subjected to periodic loads 04 p0547 N84-13605
MOD-2 wind turbine development
[NASA-TM-83480] 04 p0557 N84-13670
Results from an experimental railgun system: ERGS-1A
[MRL-R-875] 05 p0743 N84-14879
Design, development and flight test of a demonstration advanced avionics system 06 p0773 N84-15067
Study on damping representation related to spacecraft structural design
[EMSB-18/83] 06 p0795 N84-15182
Turbine aerodynamic design using through-flow theory. Meridional through-flow calculation 06 p0840 N84-15474
Trends in steam turbine design, testing and manufacturing 06 p0840 N84-15478
Steam condenser thermal design theories 06 p0841 N84-15485
Steam condenser developments 06 p0841 N84-15486
Design procedures for compressor blades
[NASA-TM-77085] 06 p0852 N84-15552
Surface accuracy measurement sensor test on a 50-meter antenna surface model
[NASA-TM-85689] 07 p0992 N84-16427
Structural optimization: Challenges and opportunities
[NASA-TM-85741] 07 p1016 N84-16591
SAPIENS MEMO 5: The mechanical design of the EMP-simulator SAPIENS
[FOA-C-30320-A3] 08 p1106 N84-17192
Study on large, ultralight long-life structures in space, phase 2C
[TM-EKR3] 08 p1120 N84-17284
Design and evaluation of a pulsating-flow wind tunnel
[PB84-116086] 09 p1260 N84-18223
Spacelab data book
[ESA-BR-14] 09 p1273 N84-18315
Study on synthesis and characterization of large space systems, phase 2. Part 2: Proposals for additions, modifications and new analytical methods, volume 1
[ESA-CR(P)-1779-VOL-3] 12 p1780 N84-21611
Simultaneous analysis and design
[NASA-CR-172334] 12 p1826 N84-21902
A collection of procedures for defining airplane surfaces for input to PANAIR 12 p1875 N84-22220
The computation of mesh configurations for three-dimensional flow analysis 12 p1875 N84-22221
Mathematical synthesization of complex structures 12 p1876 N84-22224
Analysis of symmetric reinforcement of quasi-isotropic graphite-epoxy plates with a circular cutout under uniaxial tensile loading
[AD-A139998] 15 p2285 N84-24715
Design and construction of equipment items for geophysical fluid flow models
[NASA-CR-171017] 15 p2335 N84-25018
Spacelab 4: Primate experiment support hardware 15 p2348 N84-25092
Optmization of breakwater lengths in relation to wave penetration
[PUBL-312] 15 p2360 N84-25160
Examination of the final design of the rotor blades GROWIAN 1
[BMFT-FB-T-83-306] 15 p2362 N84-25174
Radomes for flight vehicles
[AD-A140174] 16 p2483 N84-25920
Technical and cost benefits of lightweight, stretched-membrane heliostats
[DE83-009408] 16 p2513 N84-26124
Simulation of T-38 aircraft student canopy response to cockpit pressure and thermal loads using MAGNA (Materially and Geometrically Nonlinear Analysis)
[AD-P003231] 17 p2597 N84-26644
Parametric studies of the T-38 student windshield using the finite element of code MAGNA (Materially and Geometrically Nonlinear Analysis)
[AD-P003232] 17 p2597 N84-26645
Current problems and progress in transparency impact analysis
[AD-P003233] 17 p2597 N84-26646
NASTRAN analysis of nuclear effects on helicopter transparencies
[AD-P003234] 17 p2597 N84-26647
Theoretical evaluation of the structural performance of Swedish fighter aircraft windshields subjected to bird impact
[AD-P003235] 17 p2597 N84-26648
Get away special experimenter's symposium
[NASA-CP-2324] 18 p2799 N84-27758
Results of the Purdue University GAS-1 payload 18 p2799 N84-27760
Arc discharge convection studies: A Space Shuttle experiment 18 p2799 N84-27761
Modular and standardized GAS payload hardware 18 p2799 N84-27765
Marshall Amateur Club experiment (MARCE) 18 p2800 N84-27767
A versatile structure for GAS payloads 18 p2801 N84-27775
Space station needs, attributes and architectural options study. Volume 7-5B: Data book. Mission analysis part B
[NASA-CR-173711] 18 p2805 N84-27802
Finite element thermal-structural analysis of cable-stiffened space structues
[NASA-CR-173709] 18 p2852 N84-28108
ACEE Composite Structures Technology: Review of selected NASA research on composite materials and structures
[NASA-CP-2321] 20 p3145 N84-29969
Impact dynamics research on composite transport structures 20 p3146 N84-29975
Postbuckling behavior of graphite-epoxy panels 20 p3146 N84-29976
Studies of noise transmission in advanced composite material structures 20 p3146 N84-29977
Directional extreme wind speed data for the design of buildings and other structures
[PB84-178847] 20 p3171 N84-30139
Multi-100kW: Planar low cost solar array development
[NASA-CR-171119] 20 p3234 N84-30529
A description of the ground segment of CNES, ESA, and TELESAT
[INPE-2984-NTE/211] 22 p3539 N84-32407
A nomographic methodology for use in performance trade-off studies of parabolic dish solar power modules
[NASA-CR-173906] 22 p3617 N84-32918
Thermionic conversion reactor technology assessment
[DE84-007611] 22 p3655 N84-33166
Space Station 23 p3701 N84-33456
Multicriterion optimization of construction
[ISSN-0206-5858] 23 p3759 N84-33822
Ada (trademark) training curriculum. Software engineering methodologies M201 teacher's guide, volume 2
[AD-A144257] 24 p3946 N84-34985

STRUCTURAL DESIGN CRITERIA
Aeronautics Research and Technology Program and specific objectives, fiscal year 1982
[NASA-TM-85474] 01 p0002 N84-10011
Space shuttle launch vehicle aerodynamic uncertainties: Lessons learned 01 p0019 N84-10118
Orbiter entry heating lessons learned from development flight test program 01 p0023 N84-10148
Test Report for MSFC Test No. 83-2: Pressure scaled water impact test of a 12.5 inch diameter model of the Space Shuttle solid rocket booster filament wound case and external TVC PCD
[NASA-CR-170901] 01 p0029 N84-10181
Feasibility demonstration of booster cross-over system for 3 1/2 inch SRB/MLP frangible nut system
[NASA-CR-170895] 01 p0029 N84-10182
Study of the practicalities of concrete for OTEC (Ocean Thermal Energy Conversion) and other marine applications
[PB83-221887] 01 p0060 N84-10398
Advanced Gas Turbine (AGT): Power-train system development
[NASA-CR-168056] 01 p0089 N84-10581
Fusion technology development plan
[DE83-012954] 01 p0150 N84-10985
Collective-focusing ion accelerator
[DE83-012795] 02 p0290 N84-11899
Operational factors in the design of the PBFA 2 accelerator
[DE83-013076] 02 p0290 N84-11900
Geometries for roughness shapes in laminar flow
[NASA-CASE-LAR-13255-1] 03 p0320 N84-12092
Acta Mechanica Sinica (selected articles)
[AD-A131871] 03 p0372 N84-12422
Lower body graduated negative pressure system
[NASA-CR-171717] 03 p0417 N84-12725
The 12-T solenoid-design options for the MFTF-B upgrade
[DE83-016646] 03 p0430 N84-12817
University of Washington superconducting-booster project
[DE83-015889] 03 p0434 N84-12846
A thousand TeV in the center of mass: Introduction to high-energy storage rings
[DE83-015849] 03 p0435 N84-12866
Ripple-reduction poloidal-field coils for Tokamak reactors
[DE83-009532] 03 p0445 N84-12922
Design of the Advanced Toroidal Facility (ATF-1)
[DE83-012841] 03 p0445 N84-12923
Building systems and smoke control 04 p0511 N84-13347
Outline of methods for design of superconducting turbogenerators
[AD-A132528] 04 p0525 N84-13451
Analytical studies of advanced high-field designs: 20-Tesla large-bore superconducting magnets
[DE83-017591] 04 p0584 N84-13918
Space-reactor system and subsystem investigations: Cost and schedule estimates for reactor and shield subsystems technology development. SP-100 program
[DE84-000112] 04 p0603 N84-13984
Low-activation fusion-reactor design studies
[DE83-017688] 04 p0608 N84-14014
Tentative STOL (short-takeoff-and-landing) flying qualities criteria for MIL standard and handbook
[AD-A132857] 05 p0629 N84-14138
The design of modern Low Pressure (LP) steam turbines 06 p0840 N84-15473
Eleventh NASTRAN User's Colloquium
[NASA-CP-2284] 08 p0858 N84-15590
The dynamic response characteristics of a viscoelastic beam on periodically-spaced, viscoelastic supports 06 p0862 N84-15619
Effect of structural flexibility on the design of vibration-isolating mounts for aircraft engines
[NASA-TM-85725] 07 p1016 N84-16590
A method for aerodynamic and aerothermodynamic conceptual design of capsule type reentry vehicle
[NAL-TR-779] 09 p1272 N84-18309
Design and characterization of Mn-Al-C alloys for permanent magnet applications
[DE84-004881] 10 p1461 N84-19542
Vibration challenges in microelectronics manufacturing 10 p1508 N84-19570
Approximate numerical predictions of impact-induced structural responses 10 p1511 N84-19890
Space reactor shielding: An assessment of the technology
[DE84-003319] 10 p1577 N84-20035
Detailed design of a variable volume hydrogen maser
[NASA-CR-175221] 11 p1662 N84-20841
Magnet design approach for pulsed Tokamak reactors
[DE84-005261] 11 p1738 N84-21341
1 megawatt, 100 GHz gyrotron study
[DE84-006527] 12 p1814 N84-21823
Investigation of the earthquake behavior of the research reactor FRJ-2 (DIDO)
[JUEL-SPEZ-222] 12 p1848 N84-22047
Design desiderata for a laminar flow quadrupole-focused acceleration column
[DE84-006534] 12 p1903 N84-22395
Definition of technology development missions for early space stations. Large space structures, phase 2, midterm review
[NASA-CR-171004] 13 p1939 N84-22607
Improved compliant hydrodynamic fluid journal bearing
[NASA-CASE-LEW-13670-1] 13 p1997 N84-22959
Wind power generation design considerations
[AD-A138841] 13 p2009 N84-23029
Advanced Platform Systems Technology study. Volume 3: Supporting data
[NASA-CR-173523] 14 p2115 N84-23673
NASA/Howard University Large Space Structures Institute
[NASA-CR-173425] 14 p2244 N84-24476
Megamechanics research Consortium 14 p2244 N84-24477
Optimization of space structures 14 p2245 N84-24480
Reconfigurable digital control laws for the A-7D DIGITAC 2 aircraft with failed primary control surfaces
[AFIT/GE/EE/82D-59] 15 p2254 N84-24535
Integrated analysis and design for multi-level performance criteria 15 p2314 N84-24885

Proceedings of the 12th Joint Panel Conference of the US-Japan Cooperative Program in Natural Resources: Wind and Seismic Effects
[PB84-167758] 15 p2318 N84-24911
Creep-rupture behavior of candidate Stirling engine alloys after long-term aging at 760 deg C in low-pressure hydrogen
[NASA-TM-83676] 16 p2464 N84-25793
Dynamics of early planetary gear trains
[NASA-CR-3793] 16 p2498 N84-26027
Conference on Aerospace Transparent Materials and Enclosures
[AD-A140701] 17 p2589 N84-26596
Operating conditions and materials selection and development in gas turbines
[NLR-MP-81012-U] 17 p2610 N84-26705
Large, horizontal-axis wind turbines
[NASA-TM-83546] 17 p2722 N84-27327
Review and comparison of discrete and continuous gust methods for the determination of airplane design loads
[NLR-TR-82134-U] 20 p3132 N84-29886
Design considerations for shear links in eccentrically braced frames
[PB84-192186] 20 p3171 N84-30136
A method for the combination of stochastic time varying load effects 21 p3417 N84-31669
Preflight certification software design specifications
[NASA-CR-171136] 21 p3465 N84-31966
Structural design of a vertical antenna boresight 18.3 by 18.3-m planar near-field antenna measurement system
[NASA-TM-83781] 22 p3597 N84-32783
Mission description document, book 2
[NAS 1.15:86852-BK-2] 23 p3698 N84-33439
Flow metering valve
[DE84-014249] 23 p3757 N84-33815
Design criteria for space based laser ranging systems 24 p3908 N84-34751

STRUCTURAL DYNAMICS
U DYNAMIC STRUCTURAL ANALYSIS

STRUCTURAL ENGINEERING
Preliminary analysis of the seismic vulnerability of selected buildings at Fort Ord, California using the rapid elamic analysis procedure
[AD-A130924] 01 p0057 N84-10372
Journal of Engineering Thermophysics (selected articles)
[AD-A129432] 02 p0180 N84-11172
Research on composite materials for structural design
[AD-A134059] 05 p0645 N84-14242
Computer simulation of construction operations 05 p0718 N84-14704
The design of modern Low Pressure (LP) steam turbines 06 p0840 N84-15473
The GPRIME approach to finite element modeling 06 p0859 N84-15594
Material selection and structural design for safety and durability
[NLR-MP-82023-U] 06 p0862 N84-15617
The dynamic response characteristics of a viscoelastic beam on periodically-spaced, viscoelastic supports 06 p0862 N84-15619
Computer-Aided Structural Engineering (CASE) project. Reference manual: Computer graphics program for generation of engineering geometry (SKETCH)
[AD-A133493] 06 p0898 N84-15828
An accurate and economical finite element family for large order structural analysis
[CSIR-ME-1780] 07 p1015 N84-16584
Use of small crack data to bring about and quantify improvements to aircraft structural integrity
[AD-A135012] 08 p1170 N84-17623
Identification of damage in hysteretic structures
[AD-A136342] 09 p1331 N84-18688
Dynamic analysis of structures using Lanczos coordinates
[AD-A136387] 09 p1331 N84-18690
Development of fatigue and crack propagation design and analysis methodology in a corrosive environment for typical mechanically-fastened joints. Volume 2: State-of-the-art assessment
[AD-A136415] 09 p1331 N84-18692
Scientific and technical information output of the Langley Research Center
[NASA-TM-85735] 09 p1399 N84-19137
Acoustic responses of coupled fluid-structure system by acoustic-structural analogy 10 p1510 N84-19883
Validated Engineering Data Index, 1983 - 1984 12 p1804 N84-21758
Micromechanics of fracture in elastomers
[AD-A136783] 13 p1964 N84-22758
New theory for thick, composite-material rings
[AD-A136536] 13 p2001 N84-22861
Computer applications to geotechnical engineering
[AD-A139271] 14 p2134 N84-23789
Integrated analysis and design for multi-level performance criteria 15 p2314 N84-24885
The 6th International Conference on Computing Methods in Applied Sciences and Engineering
[AD-A139624] 15 p2317 N84-24906
Workshop on Dynamic Fracture held at Pasadena, California on 17-18 February 1983
[AD-A140194] 16 p2466 N84-25806
The postprocessing technique in the finite element method the theory and experience
[AD-A140953] 18 p2925 N84-28551
Purdue plane structures analyzer 2: A computerized wood engineering system, 1983 version
[AD-A142042] 19 p3078 N84-29533
Error estimates for non-linear finite element computations
[AD-A141404] 19 p3084 N84-29571
Directional extreme wind speed data for the design of buildings and other structures
[PB84-178847] 20 p3171 N84-30139
National Science Foundation, volume 1
[PB84-193234] 20 p3316 N84-31061
Double arch mirror study. Part 1: Preliminary engineering report
[NASA-CR-166589-PT-1] 21 p3412 N84-31634
Computer aided modeling and post processing with NASTRAN analysis 22 p3609 N84-32869
Guide to technical documents. Volume 2: January 1963 through December 1983
[AD-A143596] 23 p3834 N84-34322

STRUCTURAL FAILURE
Interaction of gas explosions with buildings 06 p0836 N84-15447
Reinforced concrete response to near field explosions
[AD-A135878] 09 p1332 N84-18696
Quasi-cleavage and martensite habit plane
[AD-A137378] 10 p1459 N84-19527
The effect of matrix properties and fiber properties on impact failure mechanics 15 p2310 N84-24863
Lufthansa German Airlines experience with cabin and cockpit windows of Boeing 707, 727, 737, 747, Douglas DC10 and Airbus A300
[AD-P003226] 17 p2596 N84-26639
Windshield problems on UK operated transport sized jet aircraft 1976 to 1982
[AD-P003226] 17 p2596 N84-26641
Note on an accident to the Boulton Paul 120 VT 951 delta aircraft
[RAE-STRUCT-ACC-248] 17 p2603 N84-26677
Note on the structural failure of Handley page 88 (E6/48) VX330
[RAE-STRUCT-ACC-245] 17 p2603 N84-26678
SRB/FWC water impact: Flexible body loads test
[NASA-CR-173786] 19 p3021 N84-29156
The post-buckling equilibrium and the dynamic collapse of complex hyperstatic pin-jointed lattices and reticulated shells 21 p3417 N84-31667
Engineering basis for selection of positron source material
[DE84-011772] 21 p3494 N84-32143
Validation of an Active Gear, Flexible Aircraft Take-off and Landing analysis (AGFATL)
[NASA-TP-2353] 22 p3534 N84-32378
Failure prediction of notched pressure vessels using the CTOD approach
[DE84-013057] 22 p3612 N84-32883
PVC (polyvinylchloride) pipe reliability and failure modes
[DE84-013862] 23 p3725 N84-33604

STRUCTURAL FATIGUE
U FATIGUE (MATERIALS)

STRUCTURAL FOUNDATIONS
U FOUNDATIONS

STRUCTURAL INFLUENCE COEFFICIENTS
Aerospatial'es approach to the study of flutter at the design stage of the project 02 p0170 N84-11118

STRUCTURAL MATERIALS
U CONSTRUCTION MATERIALS

STRUCTURAL MEMBERS
NT ANISOTROPIC PLATES
NT ANNULAR PLATES
NT BEAMS (SUPPORTS)
NT CANTILEVER BEAMS
NT CANTILEVER PLATES
NT CIRCULAR PLATES
NT COLUMNS (SUPPORTS)
NT CORRUGATED PLATES
NT CURVED BEAMS
NT ELASTIC PLATES
NT END PLATES
NT FLAT PLATES
NT I BEAMS
NT LONGERONS
NT MEMBRANE STRUCTURES
NT METAL PLATES
NT ORTHOTROPIC PLATES
NT PERFORATED PLATES
NT PLATES (STRUCTURAL MEMBERS)
NT POROUS PLATES
NT REINFORCED PLATES
NT SADDLES (SUPPORTS)
NT SKIN (STRUCTURAL MEMBER)
NT STRAKES
NT STRINGERS
NT STRUTS
NT TAPERED COLUMNS
NT TRUSSES
NT WING PANELS
Application of FRACTOMAT/KRAK GAGES to crack growth measurements in structural components
[AD-A130945] 01 p0095 N84-10620
Review of aircraft crash structural response research
[AD-A131696] 03 p0331 N84-12160
Probabilistic fatigue life predictions of structural components in high-cycle fatigue regimes
[AD-A132425] 04 p0549 N84-13615
Energy Materials Coordinating Committee (EMACC). Contractors Meeting on Problems and Opportunities in Structural Ceramics
[CONF-8209111] 06 p0809 N84-15266
Interaction of gas explosions with buildings 06 p0836 N84-15447
Eleventh NASTRAN User's Colloquium
[NASA-CP-2264] 06 p0858 N84-15590
Resin bonding of structural members 09 p1291 N84-18432
Evaluation of the crack growth gage concept as an individual aircraft tracking device, volume 2
[AD-A136933] 10 p1428 N84-19341
Dynamic behavior of composite layered beams by the finite element method 10 p1511 N84-19892
Vibration Control Of Space Structures VCOSS A: High and low-authority hardware implementations
[AD-A139931] 15 p2281 N84-24702
Structural performance of orthogonal tetrahedral truss Space-Station configurations
[NASA-TM-86260] 22 p3542 N84-32422
Development of shearography for nondestructive testing of highway structure
[PB84-187244] 22 p3565 N84-32577
Fatigue behavior of longitudinal transverse stiffener intersection
[PB84-202092] 22 p3612 N84-32887

STRUCTURAL PROPERTIES (GEOLOGY)
Use of aircraft imagery in evaluating ground stability at open-pit uranium mines in Gas Hills, Wyoming
[DE83-903011] 03 p0401 N84-12621
Geologic study of the Wind River Basin, Fremont and Natrona Counties, central Wyoming
[PB83-254912] 03 p0409 N84-12677
Geologic survey in the south-central region of Mato Grosso
[E84-10039] 04 p0551 N84-13632
Correlation of LANDSAT and air photo linears with roof control problems and geologic features
[PB83-250852] 04 p0555 N84-13656
Interpretation of aeromagnetic anomalies of the Quadrilatero Ferrifero region
[INPE-2897-PRE/416] 04 p0562 N84-13707
Geology of faults exposed in trenches in Crater Flat, Nye County, Nevada
[DE84-000181] 04 p0564 N84-13716
Synthesis of regional crust and upper-mantle structure from seismic and gravity data
[E84-10061] 06 p0864 N84-15631
Geophysical exploration surveys for ground water in the San Pedro Basin, Arizona
[PB84-110808] 08 p1179 N84-17684
Continuity and internal properties of Gulf Coast sandstones and their implications for geopressured fluid production
[DE84-004396] 10 p1526 N84-19996
Soviet investigations of Earth's gravity field 11 p1670 N84-20897
Determining density of upper mantle rocks 11 p1670 N84-20898
Alterant geophysical tomography
[DE84-004794] 11 p1671 N84-20907
Was the early Earth completely molten? 11 p1755 N84-21460
The Lf-Hf evolution of KREEP 11 p1756 N84-21461
Formation of Meteoritic chonrules by lightning 11 p1756 N84-21462
Application of Magsat lithospheric modeling in South America. Part 1: Processing and interpretation of magnetic and gravity anomaly data
[E84-10115] 13 p2005 N84-23008
Geology and geochronology of the southeast border of the Bitterroot Dome: Implications for the structural evolution of the Mylonitic Carapace 13 p2014 N84-23065

Structure of the Brevard Zone and Blue Ridge near Lenoir, North Carolina, with observations on oblique crenulation cleavage and a preliminary theory for irrotational structures in shear zones
13 p2014 N84-23067
Depositional history and structural evolution of a sedimentary basin in a modern forearc setting, western Sunda Arc, Indonesia 13 p2014 N84-23068
Ridges on basalt flows 13 p2081 N84-23484
Desert pavement study at Amboy, California
13 p2082 N84-23492
Tectonic evolution of the Arctic continental margin in the Beaufort and Chukchi Seas: Evidence from seismic reflections 14 p2164 N84-23958
Coal occurrence, quality and resource assessment, national petroleum reserve in Alaska
14 p2164 N84-23963
Structural studies of the northwest Iberian continental margin using long-range side-scan sonar
[IOS-161] 15 p2366 N84-25198
Advances in planetary geology
[NASA-TM-86247] 15 p2426 N84-25567
The crustal tectonics and history of Europe: A structural, morphological, and comparative analysis
15 p2426 N84-25568
Determination of propped fracture length by detection of injected magnetic material with surface superconducting magnetometers
[PB84-181320] 17 p2696 N84-27176
A report on the task of collecting geological and structural data in Rio de Janeiro state
[INPE-2851-NTE/203] 17 p2726 N84-27351
Problems in seismic anisotropy of thin-layered media
18 p2859 N84-28157
Detailed study of Earth's crust in Baykal rift zone according to refracted waves data
18 p2860 N84-28160
Faults and nature of seismic discontinuities in continental crust section 18 p2860 N84-28161
Deep crustal structure on space images
19 p2977 N84-28869
Crustal deformation and earthquakes
20 p3220 N84-30457
Dependence of crustal structure of eastern Pacific Ocean on its age 20 p3223 N84-30483
Structure of ocean floor in relation to conditions for formation of lithosphere 20 p3223 N84-30484
Thermal ground water flow systems in the thrust zone in southeastern Idaho
[DE84-011598] 20 p3229 N84-30517
Retrogenesis of the Basal Zone of the Stillwater Complex, Montana 21 p3439 N84-31818
Nonlinear inverse methods applied to interpreting gravity anomalies produced by multi-interfaced geologic bodies
21 p3440 N84-31822
The petrology, structure and geochemistry of an Archean terrane in the North Snowy Block, Beartooth Mountains, Montana 22 p3620 N84-32940
Computer calculated analysis of subsurface formation porosities in central New York state
22 p3620 N84-32941
Comparative geologic analysis of LANDSAT and Schuttle Imaging Radar (SIR)-A images of the Adrar des Iforas area in NE Mali 23 p3769 N84-33895
The applicability of improved remote sensing data for lithological and structural mapping
23 p3770 N84-33899
An interactive procedure for the analysis of linear elements detected in LANDSAT pictures: An application to northern Mozambique 23 p3770 N84-33900
Statistical lineament analysis in South Greenland based on LANDSAT imagery 23 p3770 N84-33901
Studies in environmental geomorphology of Dudhatoli Ridge Garhwal, Himalay, India 23 p3770 N84-33902
Polyphase tectonics of the Oceanus Procellarum area on the Moon 23 p3841 N84-34364
Metallogenic studies in Kazakhstan outlined
24 p3869 N84-34520
Strain release along ocean transform faults
24 p3918 N84-34804

STRUCTURAL RELIABILITY
Adaptive inverse control for helicopter vibration reduction
[NASA-TM-84336] 02 p0181 N84-11177
An RAF viewpoint on aircraft structural integrity
12 p1764 N84-21503
NERF: A computer program for the numerical evaluation of reliability functions-reliability modeling, numerical methods and program documentation
[AR-00-984] 16 p2500 N84-26048
PVC (polyvinylchloride) pipe reliability and failure modes
[DE84-013662] 23 p3725 N84-33604
A simulation process for determining reliability of cyclic random loaded structures
[AD-P003849] 24 p3939 N84-34936
On the Skorchod representation
24 p3955 N84-35041

STRUCTURAL RIGIDITY
U STRUCTURAL STABILITY

STRUCTURAL STABILITY
NT SHELL STABILITY
Turbulent wind effects on tension leg platform surge
[PB83-207464] 01 p0058 N84-10376
Experimental investigation of tearing-instability phenomena for structural materials
[DE83-900676] 01 p0097 N84-10629
Mean-square optimal, full-order compensation of structural systems with uncertain parameters
[AD-A131276] 02 p0281 N84-11841
System identification of structures with joint rotation
03 p0358 N84-12330
Development of the basic methods needed to predict the aeroelastic behavior of helicopters
03 p0429 N84-12811
Large laser system facility design
[DE84-000159] 04 p0540 N84-13553
Analysis and control of quasi distributed parameter systems 04 p0547 N84-13603
Stability, vibration and passive damping of partially restrained imperfect columns
[NASA-TM-85697] 04 p0548 N84-13608
Wind tunnel tests on a model of a semisubmersible platform and comparison of the results with full-scale data
[NLR-MP-82014-U] 06 p0760 N84-15113
West breakwater-Sines (Portugal): Study of armor stability 06 p1194 N84-17768
The stability and dynamics of elastic structures and fluid flows
[AD-A137184] 10 p1491 N84-19750
Numerical determination of the effects of boundary conditions on the instability of composite panels with cutouts
[AD-A136772] 10 p1517 N84-19931
Dynamic assessment of B-52B-008 carrier aircraft for the revised Space Shuttle solid rocket booster decelerator subsystem drop test vehicle
[NASA-CR-170969] 12 p1779 N84-21606
Fixity of members embedded in concrete
[AD-A138862] 13 p1974 N84-22610
Large deformation behavior of long shallow cylindrical composite panels
[NASA-CR-173286] 13 p2000 N84-22975
An aeroelastician's perspective of wind tunnel and flight experiences with active control of structural response and stability
[NASA-TM-85761] 14 p2157 N84-23924
Proceedings of the 12th Joint Panel Conference of the US-Japan Cooperative Program in Natural Resources: Wind and Seismic Effects
[PB84-167758] 15 p2318 N84-24911
Radomes for flight vehicles
[AD-A140174] 16 p2483 N84-25920
Simulation of T-38 aircraft student canopy response to cockpit pressure and thermal loads using MAGNA (Materially and Geometrically Nonlinear Analysis)
[AD-P003231] 17 p2597 N84-26644
Parametric studies of the T-38 student windshield using the finite element of code MAGNA (Materially and Geometrically Nonlinear Analysis)
[AD-P003232] 17 p2597 N84-26645
Stressed and strained state of cylindrical shells reinforced with hoops 17 p2651 N84-26952
The stability and dynamics of elastic structures and fluid flows
[AD-A141206] 18 p2837 N84-28006
Evaluation of aerodynamic admittance of a model bridge oscillating with vertical motion
[NMI-R-175] 18 p2851 N84-28104
The aerodynamic admittance of model bridges
[NMI-R-176] 18 p2851 N84-28105
Finite element thermal-structural analysis of cable-stiffened space structures
[NASA-CR-173709] 18 p2852 N84-28106
Structurally stable, thin silicon solar cells
19 p3044 N84-29309
Experiments on tubes conveying fluid
[DE84-004031] 20 p3185 N84-30237
Some computational aspects of the stability analysis of nonlinear structures
[NLR-MP-82034-U] 20 p3204 N84-30351
Interactive aircraft flight control and aeroelastic stabilization
[NASA-CR-173866] 21 p3344 N84-31214
Strength and stiffness of AISC type 2 steel frames
21 p3416 N84-31666
A finite element model for the analysis and optimal design of beams and plates with variable flexural rigidity
21 p3417 N84-31668
The effects of curvature on turbulent mixing layers
[AD-A144250] 24 p3900 N84-34897
Vibrations and stability of thick plates
24 p3958 N84-35059

STRUCTURAL STRAIN
Damage mechanisms in damaged CFRP laminates
10 p1452 N84-19483
Helicopter fatigue design guide
[AD-A136963] 11 p1805 N84-20513
Solving statics problems of thick-walled cylindrical shells with loose contact between layers
13 p1973 N84-22805
Microstructures associated with wear
14 p2153 N84-23901
Structures and properties of polymers important to their wear behavior 14 p2154 N84-23902
Finite element thermal-structural analysis of cable-stiffened space structures
[NASA-CR-173709] 18 p2852 N84-28106
Criterion for quasibrittle crack growth
[DE84-010052] 20 p3203 N84-30349
The post-buckling equilibrium and the dynamic collapse of complex hyperstatic pin-jointed lattices and reticulated shells 21 p3417 N84-31667

STRUCTURAL VIBRATION
NT BENDING VIBRATION
NT FLUTTER
NT PANEL FLUTTER
NT SUBSONIC FLUTTER
NT SUPERSONIC FLUTTER
NT TORSIONAL VIBRATION
NT TRANSONIC FLUTTER
Aeroelastic design considerations for turboprop powerplant installations 02 p0171 N84-11123
Adaptive inverse control for helicopter vibration reduction
[NASA-TM-84336] 02 p0181 N84-11177
Present trends in structural analysis at ONERA
03 p0429 N84-12812
La Recherche Aerospatiale, Bimonthly Bulletin, no. 1982-5, 210/September-October 1982
[ESA-TT-785] 04 p0477 N84-13142
Work done to determine the source of errors on conditioned pressure transduce signals in the JT9D-7F turbofan engines used on SAA Boeing 747 aircraft
[NIAST-82/78] 04 p0486 N84-13192
Analysis and control of quasi distributed parameter systems 04 p0547 N84-13603
An improved finite-difference analysis of uncoupled vibrations of tapered cantilever beams
[NASA-TM-83495] 04 p0548 N84-13610
Experimental study of active vibration control
[AD-A133818] 05 p0692 N84-14546
Improved finite-difference vibration analysis of pretwisted, tapered beams
[NASA-TM-83549] 07 p1015 N84-16588
Component mode synthesis and large deflection vibrations of complex structures — beams and trusses
[NASA-CR-173336] 09 p1329 N84-18680
Least favorable response of inelastic structures
[AD-A136289] 09 p1330 N84-18687
Eigenvalue methods for vibration analysis 2
10 p1507 N84-19865
On the face-shear vibrations of contoured crystal plates 10 p1511 N84-19891
The Shock and Vibration Bulletin. Part 3: Vehicle dynamics and vibration: Test and criteria
[AD-A134454] 10 p1511 N84-19893
Testing for severe aerodynamically induced vibration environments 10 p1513 N84-19905
Evaluation of modal testing techniques for spacecraft structures 10 p1513 N84-19906
A free-form modal survey suspension system for large test articles 10 p1513 N84-19907
Measurement of structural damping using the random decrement technique 10 p1514 N84-19915
Simple approximate models for a class of structures
10 p1515 N84-19921
Research opportunities for rotorcraft
11 p1619 N84-20596
Analysis of large space structures
11 p1623 N84-20621
Laboratory measurements of subsynchronous resonance
[RL-8845] 11 p1667 N84-20677
Vibration and flutter of mistuned bladed-disk assemblies
[NASA-TM-83634] 14 p2157 N84-23923
Strong motion program report
[USGS-CIRC-914] 14 p2175 N84-24028
On some dynamic problems in layered elastic-viscoelastic beams 15 p2309 N84-24856
Problems of system identification in flight vibration testing
[AGARD-R-720] 16 p2451 N84-25718
La Recherche Aerospatiale, Bimonthly Bulletin, no. 1983-6, 217/November-December
[ESA-TT-841] 16 p2476 N84-25870

Developments in structural vibration testing methods
16 p2476 N84-25874
NASTRAN forced vibration analysis of rotating cyclic structures
[NASA-CR-173821] 19 p3035 N84-29252
A numerical scheme for the identification of hybrid systems describing the vibration of flexible beams with tip bodies
[NASA-CR-172398] 19 p3095 N84-29655
An analysis of the high frequency vibrations in early Thematic Mapper scenes 20 p3210 N84-30395
Direct generation of seismic floor response spectra for classically and nonclassically damped structures
[PB84-191675] 21 p3445 N84-31860
Random vibrations of multicomponent structures
22 p3607 N84-32854
Structural analysis of the support system for a large compressor driven by a synchronous electric motor
22 p3610 N84-32873
Analysis of parametrically excited large vibration systems
[AD-A143283] 22 p3611 N84-32879
Dynamic characteristics of heat exchanger tubes vibrating in a tube support plate inactive mode
[DE84-014844] 23 p3761 N84-33840
Investigation of multiple controller system efficiency as applied to the CSDLI model
[AD-A144597] 24 p3949 N84-35002

STRUCTURAL WEIGHT
Work capsule for lightweight hydrostatic machines
[CSIR-RR-581] 13 p1988 N84-22905
Composite materials in automobile weight reduction
15 p2431 N84-25599
Optimization of antenna structure design
22 p3572 N84-32624

STRUCTURES
Dynamic simulation of structural systems with isolated nonlinear components 10 p1510 N84-19885
Combined experimental/analytical modeling using component mode synthesis
[DE84-013147] 21 p3423 N84-31715

STRUTS
Development of a 611 MHz feed for a 9-meter reflector
[NASA-TM-86300] 23 p3730 N84-33641

STS
U SPACE TRANSPORTATION SYSTEM

STS-1
U SPACE TRANSPORTATION SYSTEM 1 FLIGHT

STS-2
U SPACE TRANSPORTATION SYSTEM 2 FLIGHT

STS-3
U SPACE TRANSPORTATION SYSTEM 3 FLIGHT

STS-4
U SPACE TRANSPORTATION SYSTEM 4 FLIGHT

STS-6
U SPACE TRANSPORTATION SYSTEM 6 FLIGHT

STS-7
U SPACE TRANSPORTATION SYSTEM 7 FLIGHT

STS-8
U SPACE TRANSPORTATION SYSTEM 8 FLIGHT

STS-9
U SPACE TRANSPORTATION SYSTEM 9 FLIGHT

STS-11
U SPACE TRANSPORTATION SYSTEM 11 FLIGHT

STUDENTS
Computer-managed instruction: Individual differences in student performance
[AD-A139708] 15 p2382 N84-25286
Evaluation of the BCT (Basic Cadet Training) paraprofessional counselor training at the United States Air Force Academy
[AD-P003244] 18 p2903 N84-28411
Suicide gestures of USAF basic trainees
[AD-P003245] 18 p2903 N84-28412
NASA-Ames Summer High School Apprenticeship Research Program (SHARP)
[NASA-TM-85554] 18 p2943 N84-28661
A machine learning approach to student modeling
[AD-A141704] 19 p3080 N84-29547
NASA Ames summary high school apprenticeship research program, 1983 research papers
[NASA-TM-85931] 22 p3684 N84-33365

STUDIES
U INVESTIGATION

STURM-LIOUVILLE OPERATOR
U STURM-LIOUVILLE THEORY

STURM-LIOUVILLE THEORY
Full- and half-range theory of indefinite Sturm-Liouville problems
[DE84-001672] 05 p0741 N84-14669
Rapid determination of upper and lower bounds to buckling loads and natural frequencies of non-uniform bars 23 p3759 N84-33827

STYLUSES
U PENS

STYRENES
NT POLYSTYRENE
Small-angle X-ray scattering study of micelle formation in mixtures of butadiene homopolymer and styrene-butadiene block copolymer
[AD-A133645] 05 p0659 N84-14330
Toxicology of styrene
[MBL-1983-11] 12 p1866 N84-22160
Physical properties and structure of ion-containing polymers
[AD-A139137] 14 p2129 N84-23766
The transformation of liquid to amorphous solid: The time to vitrify for styrene polymerization
[AD-A143226] 22 p3547 N84-32452
Stabilized unsaturated polyesters
[NASA-CASE-NPO-16103-1] 22 p3558 N84-32530

SUBCARRIER WAVES
U CARRIER WAVES

SUBCIRCUITS
U CIRCUITS

SUBCRITICAL FLOW
Computer program documentation for a subcritical wing design code using higher order far-field drag minimization
[NASA-CR-3457] 19 p2957 N84-28740

SUBDWARF STARS
Spectral analysis of helium poor hot subdwarfs
24 p3976 N84-35181
An analysis of the helium-weak stars HD 144334
24 p3976 N84-35182
Limb-darkening and metal abundances in the sdOB primary of the eclipsing binary LB 3459 (AA Dor)
24 p3976 N84-35183

SUBGRAVITY
U REDUCED GRAVITY

SUBGROUPS
The invariance of cones and wedges under flows
[PREPRINT-796] 12 p1817 N84-21848
On the optimality of some subset selection procedures
[AD-A140180] 16 p2549 N84-26362
Bayes-p* subset selection procedures for the best population
[AD-A140179] 16 p2551 N84-26367
Subgroups of continuous groups acting differentiably on the half-line 22 p3634 N84-33028

SUBJECTS
Subject categories with scope definitions and limitations
[DE83-008754] 02 p0302 N84-11984

SUBLATTICES
U LATTICES (MATHEMATICS)
U SUBGROUPS

SUBLAYERS
U SUBSTRATES

SUBLIMATION
Properties of simulated comet mantle
13 p2076 N84-23452

SUBMARINE CABLES
Design and test results of optical fiber units for optical submarine cable 11 p1723 N84-21243
Design calculations associated with the laying of submarine communication cables
[NPL-DMA(A)-76] 15 p2346 N84-25077

SUBMARINES
Scaling studies of efficient Raman converters
[AD-A130382] 01 p0086 N84-10560
Proceedings of the 3rd Tripartite Conference on Submarine Medicine: France, United Kingdom and the United States
[AD-A133150] 06 p0889 N84-15777
Communication system studies for the submarine laser communications system
[AD-A135661] 09 p1301 N84-18504
Anthropometric indicators of submariners
11 p1694 N84-21049
Stresses in a submarine topography under ocean waves
[DE84-005722] 12 p1863 N84-22139
New formulas for HED (Horizontal Electric Dipole), HMD (Horizontal Magnetic Dipole), VED (Vertical Electric Dipole), and VMD (Vertical Magnetic Dipole) subsurface-to-subsurface propagation
[AD-A139030] 13 p2033 N84-23187
New formulas that extend Norton's farfield elementary dipole equations to the quasi-nearfield range
[AD-A139057] 13 p2034 N84-23188
Optimization of satellite orbital parameters for oceanic surveillance
[AD-P002158] 14 p2139 N84-23824
Around-a-mast quadrifilar microstrip antenna
[AD-D011051] 22 p3571 N84-32617

SUBMERGED BODIES
NT DIVING (UNDERWATER)
NT UNDERWATER RESEARCH LABORATORIES
Yield surface for bars including warping restraint
[AD-A131393] 03 p0388 N84-12533
User's manual for CABLE: A three-dimensional, finite-segment computer code for submerged and partially submerged cable systems
[AD-A132515] 04 p0579 N84-13821
Acoustic radiation from submerged structures at characteristic frequencies 05 p0742 N84-14672
An experimental study on wave interception by several pairs of balloons and a pair of grouped several balloons in submerged state 07 p0982 N84-16363
Finite element method for incompressible laminar boundary layer flows 06 p1096 N84-17126
Approximation of compressible fluid in fluid-structure interaction problems
[CSIR-R/NIAST-15] 11 p1651 N84-20778
East Europe report: Scientific affairs
[JPRS-ESA-84-010] 12 p1897 N84-22358

SUBMERGING
Plating on aluminum: Influence on varying zinc immersion treatment times
[DE83-015246] 02 p0196 N84-11272
Propagation of flexural and membrane waves with fluid loaded NASTRAN plate and shell elements
06 p0860 N84-15602
G suit of bladderless type as a means of improving orthostatic stability after water immersion hypokinesia nd exposure to accelerations 07 p1045 N84-16775
Cardiovascular and respiratory responses to muscular activity during immersion in water at different temperatures
[AD-A138894] 14 p2185 N84-24094
Adaptive effects of repeated immersion on man
15 p2376 N84-25258
Immersion of disk in compressible fluid at angle to free surface 17 p2647 N84-26930

SUBMILLIMETER WAVES
A broadband high power millimeter to centimeter spectrometer
[AD-A131629] 02 p0294 N84-11927
Ladder supported ring bar circuit
[NASA-CASE-LEW-13570-1] 07 p0995 N84-16452
Properties of material in the submillimeter wave region (Instrumentation and measurement of index of refraction)
[NASA-CR-175156] 07 p1006 N84-16524
Submillimeter astronomy at the NASA/University of Hawaii 3-meter infrared telescope facility
[NASA-CR-173269] 07 p1069 N84-17063
Submillimeter wavelength survey of the galactic plane from l = -5 deg to l = +62 deg: Structure and energetics of the inner disk
[NASA-TM-86077] 20 p3319 N84-31069
Multifrequency emission from submillimeter lasers
21 p3487 N84-32096
Large Deployable Reflector Science and Technology Workshop. Volume 3: Systems and Technology Assessment
[NASA-CP-2275-VOL-3] 21 p3523 N84-32318
Large Deployable Reflector Science and Technology Workshop. Volume 3: Systems and technology assessment. Introduction 21 p3523 N84-32319
Studies of low-mass star formation with the large deployable reflector
[NASA-TM-85960] 21 p3524 N84-32328
Submillimeter, millimeter, and microwave spectral line catalogue
[NASA-CR-173899] 22 p3546 N84-32448
A study of the interaction of millimeter wave fields with biological systems
[AD-A144150] 24 p3935 N84-34910

SUBREFLECTORS
Synthesis of offset dual shaped subreflector antennas for control of Cassegrain aperture distributions
[AD-P003517] 21 p3365 N84-31485
The 64-m antenna automatic subreflector focusing controller 22 p3573 N84-32628
Intermodulation product levels in flame-sprayed materials 22 p3573 N84-32629

SUBROUTINE LIBRARIES (COMPUTERS)
Guidelines for the design of large modular scientific libraries in Ada
[NPL-DITC-28/83] 03 p0420 N84-12740
Assembly language graphics library (EGR1.LB) with Fortran interfacing
[PB83-239624] 03 p0422 N84-12757
Computer graphics hardware and software of the HP 1000F system
[IFSI-82-8] 05 p0720 N84-14720
Guidelines for the design of large modular scientific libraries in Ada
[MW-NN-31/83] 07 p1056 N84-16840
Software maintenance on FORTRAN libraries at a large computer installation
[DE84-002008] 06 p1213 N84-17914
CORE graphics users manual, revision 1
[DE84-004235] 11 p1708 N84-21136

Nonlinear least squares regression using STAR-PAC: The standards time series and regression package
[PB84-166214] 15 p2394 N84-25365
Introduction to STARPAC: The standards time series and regression package
[PB84-178367] 17 p2755 N84-27492
Guidelines for the design of large modular scientific libraries in Ada
[CWI-NM-N8401] 20 p3275 N84-30792
METLIB-2: A program library for calculating and plotting atmospheric and oceanic fields
[PB84-205434] 21 p3450 N84-31890

SUBROUTINES
MINIVER upgrade for the AVID system. Volume 1: LANMIN user's manual
[NASA-CR-172212] 01 p0120 N84-10779
Computation of Bessel functions of complex argument
[DE83-013528] 01 p0134 N84-10881
A computer subroutine for evaluating polygamma functions for complex arguments
[AD-A131936] 03 p0420 N84-12744
User's guide for SOL/NPSOL: A FORTRAN package for nonlinear programming
[DE83-016903] 03 p0421 N84-12751
User's guide for SOL/QPSOL: A FORTRAN package for quadratic programming
[DE83-016990] 03 p0421 N84-12752
Development of a GIFTS (graphics-oriented interactive finite-element time-sharing system) plotting package compatible with either PLOT10 or IBM/DSM graphics
[AD-A132195] 04 p0581 N84-13633
Portable FORTRAN contour-plotting subprogram
[DE83-017422] 04 p0582 N84-13846
Documentation of NCAR (National Center for Atmospheric Research) CCMOB program modules
[PB83-263996] 05 p0710 N84-14651
Calculation of cosmic ray induced single event upsets: Program CRUP (Cosmic Ray Upset Program)
[AD-A133620] 06 p0941 N84-16113
Software development guidelines
[NASA-CR-171748] 09 p1366 N84-18919
Hewlett-Packard 7221T plotter user's manual
[AD-A135881] 09 p1368 N84-18929
DSP1, a Diffractometer Subroutine Package for PDP-8 computers
[AD-A137458] 10 p1563 N84-20241
BIMOND: Monotone bivariate interpolation code (preliminary documentation)
[DE84-004159] 10 p1565 N84-20252
General Electromagnetic Model for the Analysis of Complex Systems (GEMACS) computer code documentation (version 3), volume 3, part 2
[AD-A137464] 11 p1644 N84-20750
EISPACK: A package for solving matrix eigenvalue problems
[DE84-005408] 11 p1717 N84-21197
Laser velocimeter optical traverse scheme: An investigation of a proposed optical scanning technique for Arnold Engineering and Development Center's four-foot transonic wind tunnel
[AD-A138168] 12 p1818 N84-21853
NIPROP: A computer package for the thermodynamic and thermophysical properties of nitrogen
[OUEL-1485/83] 12 p1917 N84-22487
On dynamical formulation of a tethered satellite system with mass transport
[AD-A142312] 19 p2980 N84-26886
LCAP2 (Linear Controls Analysis Program). Volume 3: Source code description
[AD-A141386] 19 p3075 N84-29512
A tutorial for the Ramtek 9460 raster graphics system and the dI-3000 graphics package
[AD-A141834] 19 p3078 N84-29530
Air Force Academy Aeronautics Digest
[AD-A142399] 20 p3125 N84-29849
CHART and SKETCH: An interactive computer graphics program
[AD-A141997] 20 p3269 N84-30744
Planning of operational software implementation tool
[AD-P003595] 21 p3341 N84-31200

SUBSETS (MATHEMATICS)
U SET THEORY

SUBSIDENCE
Proceedings of the 1982 Forum on Subsidence Due to Fluid Withdrawals
[DE84-001028] 05 p0704 N84-14618
Base line for determining local, small-scale vertical movements in Louisiana
[DE84-002569] 05 p0704 N84-14619
Subsidence monitoring for state of Arizona
[PB84-126960] 08 p1189 N84-17750
Response of alluvial rivers to active tectonics
21 p3436 N84-31812

SUBSONIC AIRCRAFT
Integrated Application of Active Controls (IAAC) technology to an advanced subsonic transport project: Final ACT configuration evaluation
[NASA-CR-3519] 18 p2792 N84-27723

SUBSONIC FLOW
Subsonic longitudinal performance coefficient extraction from shuttle flight data: An accuracy assessment for determination of data base updates
01 p0026 N84-10163
Wind tunnel wall interference
[AD-A131396] 02 p0175 N84-11149
Special Course on Subsonic/Transonic Aerodynamic Interference for Aircraft
[AGARD-R-712] 03 p0317 N84-12072
Subsonic/Transonic Aerodynamic Interference for Aircraft: Introductory remarks 03 p0317 N84-12073
Subsonic/transonic viscous interactions
03 p0317 N84-12075
Theoretical modelling of three-dimensional vortex flows in aerodynamics 03 p0324 N84-12116
Further development of a method for computing three-dimensional subsonic viscous flows in turbofan lobe mixers
[NASA-CR-168304] 05 p0679 N84-14462
Iterative solution of the finite difference potential equations for subsonic and transonic flows
06 p0835 N84-15436
Some new developments in exact integral equation formulations for sub- or transonic potential flow
[NLR-MP-82024-U] 06 p0903 N84-15880
Quasi-doublet-lattice method for oscillating thin airfoils in subsonic flow 07 p0985 N84-16378
Progress on a generalized coordinates tensor product finite element 3DPNS algorithm for subsonic
[NASA-CR-172256] 07 p1002 N84-16495
Development of a computer code for 3-dimensional higher order panel method for subsonic potential flow
[FFA-138] 09 p1253 N84-18180
Acoustic radiation from a semiinfinite annular duct in a uniform subsonic mean flow
[NLR-MP-82045-U] 09 p1387 N84-19059
COMFLO: An experimental program for multigrid treatment of subsonic potential flows past airfoil profiles
[PREPRINT-604] 10 p1423 N84-19302
Two-dimensional wind tunnel wall interference
[AD-A138964] 11 p1603 N84-20499
An interactive system for the analysis and constrained minimization of induced drag of aircraft configurations (SAMID)
[NLR-MP-82057-U] 12 p1767 N84-21523
Computational methods for subsonic and transonic aerodynamic design
[AD-B079994] 12 p1767 N84-21524
Ultraviolet OH emissions in H2-air diffusion flames
13 p1942 N84-22629
Development of MCAERO wing design panel method with interactive graphics module
[NAS 1.60:3775] 14 p2104 N84-23623
Investigation of the behavior of axial compressor stages with steady state inlet distortions
[DFVLR-FB-83-39] 15 p2262 N84-24590
Wind tunnel investigations on thin supercritical airfoils in the high subsonic flow regime
[ESA-TT-774] 16 p2440 N84-25652
A quasi-simultaneous calculation method for strongly interacting viscous flow around an infinite swept wing
[NLR-MP-83001-U] 17 p2601 N84-26672
PAN AIR: A computer program for predicting subsonic or supersonic linear potential flows about arbitrary configurations using a higher order panel method. Volume 1: Theory document (version 1.1)
[NASA-CR-3251] 18 p2788 N84-27697
Energy efficient engine: Low-pressure turbine subsonic cascade component development and integration program
[NASA-CR-165592] 18 p2795 N84-27738
On the evaluation of boundary layer measurements on boattailed bodies of revolution in axisymmetric compressible subsonic flow
[DFVLR-FB-84-09] 18 p2837 N84-28010
Velocity and temperature characteristics of two-stream, coplaner jet exhaust plumes
[NASA-TM-83730] 19 p2965 N84-28790
Report of tests of a compressor configuration of CD (Controlled Diffusion) blading
[AD-A143499] 22 p3604 N84-32832
PAN AIR: A computer program for predicting subsonic or supersonic linear potential flows about arbitrary configurations using a higher order panel method. Volume 4: Maintenance document (version 1.1)
[NASA-CR-3254] 23 p3690 N84-33388
Control of jet flowfield dynamics
[AD-A143631] 23 p3746 N84-33750
The calculation of the axisymmetrical subsonic viscous flow field of annular diffusers with prewhirling current at the inlets
[AD-A144534] 24 p3901 N84-34702

SUBSONIC FLUTTER
Generalization of the subsonic kernel function in the s-plane, with applications to flutter analysis
[NASA-TP-2292] 11 p1600 N84-20480
Note on an accident to the Boulton Paul 120 VT 951 delta aircraft
[RAE-STRUCT-ACC-248] 17 p2603 N84-26677
Experimental investigation of elastic mode control on a model of a transport aircraft
[NASA-CR-3472] 18 p2792 N84-27721
Subsonic/transonic stall flutter investigation of a rotating rig
[NASA-CR-174625] 23 p3695 N84-33417
Refined methods of aeroelastic analysis and optimization — swept wings, propeller theory, and subsonic flutter
[NASA-CR-173967] 23 p3760 N84-33835

SUBSONIC SPEED
An experimental documentation of trailing-edge flows at high Reynolds number
[NASA-TM-84375] 01 p0076 N84-10498
Flow visualization and interpretation of visualization data for deflected thrust V/STOL nozzles
[NASA-TM-83554] 05 p0631 N84-14147
Lecture notes on the principles and practice of airplane performance prediction. Part 1: Basic elements
[VTH-LR-385-VOL-1] 10 p1429 N84-19345
Lecture notes on the principles and practice of airplane performance prediction. Part 2: Point-performance in steady symmetric and unsymmetric flight
[VTH-LR-385-VOL-2] 10 p1429 N84-19346
Lecture notes on the principles and practice of airplane performance prediction. Part 3: Path performance in quasi steady and unsteady symmetric flight
[VTH-LR-385-VOL-3] 10 p1429 N84-19347
Integrated Application of Active Controls (IAAC) technology to an advanced subsonic transport project: Current and advanced act control system definition study
[NASA-CR-3545] 18 p2796 N84-27744
Integrated Application of Active Controls (IAAC) technology to an advanced subsonic transport project: Current and advanced act control system definition study. Volume 2: Appendices
[NASA-CR-165631-VOL-2] 19 p2957 N84-28803

SUBSONIC WIND TUNNELS
Report of tests of a compressor configuration of DCA blading
[AD-A133350] 07 p1002 N84-16501
Remarks on the layout of the subsonic free jet wind tunnels
[NASA-TM-77326] 09 p1258 N84-18214
Acoustic wave propagation through shear layer of the German-Dutch open jet wind tunnel (DNW)
[NLR-MP-83003-U] 12 p1901 N84-22379
An experimental and analytic study of the flow subsonic wind tunnel inlets
[AD-A138865] 13 p1927 N84-22540
Low-speed investigation of effects of wing leading- and trailing-edge flap deflections and canard incidence on a fighter configuration equipped with a forward-swept wing
[NASA-TM-85795] 17 p2600 N84-26667
The F2 wind tunnel at Fauga-Mauzac
[NASA-TM-77482] 19 p2969 N84-28814
Compendium of US incompressible flow facilities
[AD-A143650] 23 p3696 N84-33424

SUBSTANCES
U MATERIALS

SUBSTITUTES
The reciprocal influence of functional groups in substitution reactions on the diamond surface
[CSIR-TRANS-1685] 01 p0152 N84-11000
Companion trainer aircraft: Concept test
[AD-A131378] 02 p0266 N84-11757
Domestic scheduled air transport for the year 2000. Financial and capacity related effects of supply alternatives, considering, also, the cooperation with high speed rail transport services — West Germany
[DFVLR-FB-83-03] 03 p0328 N84-12141
Replacing critical and strategic refractory metal elements in nickel-base superalloys — NASA's COSAM program
[NASA-TM-83528] 04 p0498 N84-13264
Effects of cobalt in nickel-base superalloys
[NASA-CR-168308] 05 p0652 N84-14287
Dimensionally stable electrode for fused salt electrolysis (replacement of petrol coke) — Petrol coke substitutes
[BMFT-FB-T-83-224] 10 p1457 N84-19520
Critical and strategic materials: Proceedings of the Laboratory Study Group Meeting
[CONF-830474] 12 p1783 N84-21631

Substitution and addition reactions of a (Methylene)phosphine with alkyllithium reagents
[AD-A141512] 19 p2984 N84-28908
Protected ethynylated phenols
[AD-D011086] 22 p3560 N84-32544
Materials Substitution and Recycling
[AGARD-CP-356] 23 p3702 N84-33465
The nature of the critical and strategic materials problem 23 p3702 N84-33466
Understanding the roles of the strategic element cobalt in nickel base superalloys 23 p3703 N84-33471
Substitution and conservation technology for chromium 23 p3703 N84-33473
Ceramics as substitutes for scarce metals 23 p3704 N84-33479

SUBSTITUTION
U SUBSTITUTES

SUBSTRATES
Kinetics of solid-phase crystallization in ion-implanted and deposited amorphous-silicon films
[DE83-015499] 02 p0300 N84-11967
MM and T: Ceramic metal substrates for hybrid electronics
[AD-A132514] 04 p0505 N84-13313
Cell-substrate bonding system design and development
[DE84-000963] 04 p0558 N84-13678
Chemical conversion surfaces for solar-energy applications
[DE84-000107] 04 p0558 N84-13681
Ceramic composite liner material for gas turbine combustors
[NASA-TM-83490] 05 p0631 N84-14145
An investigation of substrate effects on type two hot corrosion of marine gas turbine materials
[AD-A132833] 05 p0655 N84-14303
The influence of weakly polarized surfaces on different kinds of thin layer systems 06 p0815 N84-15309
Structural properties of epitaxial single layer metals on (110) B.C.C. metal substrates 06 p0817 N84-15326
Replicated CdTe substrates
[AD-A133114] 06 p0822 N84-15894
Metallic glass as a temperature sensor during ion plating
[NASA-TM-83586] 08 p1130 N84-17351
Tribological characteristics of gold films deposited on metals by ion plating and vapor deposition
[NASA-TM-83572] 08 p1130 N84-17352
Laboratory degradation of Kapton in a low energy oxygen ion beam
[NASA-TM-83530] 09 p1272 N84-18310
Development of a planar heterojunction bipolar transistor for very high speed logic
[AD-A136341] 09 p1306 N84-18539
Investigation of high efficiency large TBW line acoustic wave convolvers
[AD-A135686] 09 p1387 N84-19056
Signal processing in high data rate environments. Design tradeoffs in the exploitation of parallel architectures and fast system clock rates. An overview 09 p1401 N84-19151
Flexible substrate for printed wiring
[NASA-TM-77459] 10 p1451 N84-19478
Durability of adhesive bonds between glass or metal substrates and a polybutadiene-polyurethane
[AD-A137489] 10 p1486 N84-19578
The effects of substrate surface treatments on the defect incorporation in hydride VPE grown InGaAs films
[AD-A137486] 10 p1588 N84-20408
Investigation into the role of sodium chloride deposited on oxide and metal substrates in the initiation of hot corrosion
[NASA-CR-173377] 11 p1633 N84-20676
Millimeter wave metal-insulator-metal detector/mixer diode
[AD-A138391] 12 p1812 N84-21815
Corrosion control through a better understanding of the metallic substrate/organic coating/interface
[AD-A139066] 13 p1961 N84-22739
Method and apparatus for coating substrates using a laser
[NASA-CASE-LEW-13526-1] 13 p1995 N84-22944
Development of high strength braze joints in beryllium
[DE84-007243] 13 p1998 N84-22954
Zinc electrode morphology in acid electrolytes
[DE84-007184] 14 p2124 N84-23728
Structure and porosity of electrodeposited platinum: Evaluation of 4 plating methods
[PB84-152933] 14 p2129 N84-23763
Deposition stress effects on thermal barrier coating burner rig life
[NASA-TM-83670] 16 p2470 N84-25830
MM&T-Ceramic metal substrates for hybrid electronics: Handbook
[AD-A140669] 17 p2623 N84-26790
Thin film models of SMSI (Show Strong Metal-Support Interactions) catalysts: Pt on oxidized titanium
[AD-A140589] 17 p2767 N84-27572
Optical constant determination of thin films condensed on transmitting and reflecting substrates
[AD-A140845] 17 p2768 N84-27578
Coating with overlay metallic-cermet alloy systems
[NASA-CASE-LEW-13639-2] 18 p2813 N84-27855
Novel antistatic packaging materials
[AD-D011069] 19 p3000 N84-29012
Development of GaAs/Si and GaAs/Si monolithic structures for future space solar cells 19 p3048 N84-29327
Molecular beam epitaxy of HgCdTe
[AD-A141574] 19 p3110 N84-29761
Inventory of geothermal resources in Nebraska
[DE84-009679] 20 p3229 N84-30518
Overlay coating degradation by simultaneous oxidation and coating/substrate interdiffusion
[NASA-TM-83738] 21 p3365 N84-31344
Effect of ion treatment of substrates on initial stage of buildup of metal films 21 p3378 N84-31439
Formation of silicide contacts using codeposited refractory metals alloy films
[AD-A142879] 21 p3391 N84-31519
Nd-3+ Beta prime prime alumina platelet laser
[AD-A142797] 21 p3409 N84-31621
Electrical characteristics of metal-dielectric-semiconductor systems produced on epitaxial silicon structures with various dielectrics 21 p3479 N84-32052
A high-performance hybrid RF isolation amplifier 22 p3572 N84-32623
Schottky barrier and homojunction gallium arsenide solar cells 22 p3615 N84-32907
Overlay metallic-cermet alloy coating systems
[NASA-CASE-LEW-13639-1] 23 p3716 N84-33555
On the modeling of electromagnetically coupled microstrip antennas: The printed strip dipole
[AD-A143927] 23 p3731 N84-33651
Method of directly crystallizing a (Sm + Ti):Fe = 1:5 compound
[AD-D011061] 23 p3830 N84-34291
Use of concentrated solar energy to form slip castings 24 p3874 N84-34552
X33 cut quartz for temperature compensated saw devices
[AD-D011200] 24 p3903 N84-34713
Investigation of the MBE growth of InSb and novel quantum well structures
[AD-A144151] 24 p3967 N84-35117

SUBSTRUCTURES
Reanalysis of mechanical structures 15 p2349 N84-25099

SUBTROPICAL REGIONS
U TEMPERATE REGIONS
U TROPICAL REGIONS

SUBURBAN AREAS
LANDSAT-4 Thematic Mapper scene characteristics for a suburban and regional test site 20 p3216 N84-30429

SUCTION
Analysis of an effusive sampling device for analysis of boundary layer gases
[NASA-CR-174532] 01 p0120 N84-10778
Investigation of the generation of regular waves by a sliding valve pneumatic wave generator
[CSIF-RR-553] 04 p0543 N84-13579
Effect of suction on the wake structure of a three-dimensional turret
[AD-A135697] 09 p1252 N84-18174
A rapid method for predicting suction distributions to maintain attached, laminar boundary layers on bodies of revolution
[AD-A139125] 14 p2145 N84-23856
Stall delay by boundary layer blowing and/or suction 21 p3323 N84-31086
Supersonic flows around a circular cone with or without blowing on the surface
[AD-A143258] 22 p3532 N84-32362
VORCAM: A computer program for calculating vortex lift effect of cambered wings by the suction analogy
[NASA-CR-165800] 23 p3690 N84-33387
A new method of evaluating the side wall interference effect on airfoil angle of attack by suction from the side walls
[NASA-TM-77722] 24 p3852 N84-34432

SUD AVIATION AIRCRAFT
NT CONCORDE AIRCRAFT

SUDAN
Substance geology of the western desert in Egypt and Sudan revealed by Shuttle Imaging Radar (SIR-A) 07 p0967 N84-16392

SUDDEN IONOSPHERIC DISTURBANCES
Solar-Geophysical Data number 455, May 1983. Part 1: Prompt reports. Data for April and March 1983, and late data
[PB83-228544] 02 p0305 N84-12005
Solar-geophysical data number 468, August 1983. Part 1. (Prompt reports). Data for July 1983, June 1983 and late data
[PB84-116573] 09 p1417 N84-19270
Solar-geophysical data number 469, September 1983. Part 1: (Prompt reports. Data for August 1983, July 1983 and late data)
[PB84-125913] 09 p1417 N84-19273
Solar-geophysical data no. 470, October 1983. Part 1: (Prompt reports), data for September 1983, August 1983 and late data
[PB84-140359] 12 p1923 N84-22526
Solar-Geophysical Data number 471, November 1983. Part 1: (Prompt reports). Data for October 1983, September 1983 and late data
[PB84-156991] 14 p2252 N84-24523
Solar-geophysical data prompt reports, February 1984, number 474. Part 1: Data for January 1984, December 1983 and late data. Explanation of data reports issued as number 474 (supplement) February 1984
[PB84-188689] 20 p3320 N84-31076
Solar-geophysical data explanation of reports, February 1984, number 474, supplement
[PB84-188697] 20 p3320 N84-31078
Solar-Geophysical Data, no. 475, March 1984. Part 1: Prompt reports. Data for September 1983, May 1981
[PB84-201508] 22 p3680 N84-33329

SUDDEN STORM COMMENCEMENTS
Comparison of SCC magnitudes at MAGSAT altitudes (325-550 km) and at ground locations
[INPE-2890-PRE/409] 02 p0239 N84-11564
Organized microscale structure of the windstorm of 12 May 1983 in Utrecht and vicinity
[KNMI-TR-36] 05 p0709 N84-14647
The storm of 12 May 1983, Ascension day
[KNMI-TR-44(CWD)] 10 p1541 N84-20096
Forecasting the windstorm of 12 May 1983 (Acension Day) — the Netherlands
[KNMI-TR-43] 13 p2017 N84-23079
National severe local storms operations plan
[PB84-155241] 14 p2180 N84-24061

SUGARS
NT DEXTRANS
NT GLUCOSE
NT RIBOSE
An investigation of lyolinescence techniques for application in radiation protection dosimetry
[PB83-263236] 19 p3053 N84-29373

SUITS
NT PRESSURE SUITS
NT SPACE SUITS
Development of passive diver thermal protection system
[AD-A130685] 01 p0117 N84-10762

SULFATES
NT BARITE
NT LITHIUM SULFATES
NT SODIUM SULFATES
Exposure chamber for studies of pollutant gases and aerosols in human subjects: Design considerations
[DE84-001135] 06 p0890 N84-15785
Permeability of sodium sulfacyl through membrane structures differing in degree of organization with exposure to low-frequency magnetic field 07 p1043 N84-16763
Sulfate in precipitation. A presentation of data from the European Air Chemistry Network
[CM-64] 15 p2367 N84-25199
Development of air sulfur concentration in Finland through the year 2000
[ISBN-951-697-178-4] 19 p3052 N84-29366
Intermediate-range grid model and user's guide for atmospheric sulfur dioxide and sulfate concentrations and depositions: Wisconsin Power Plant Impact Study
[PB84-189257] 20 p3238 N84-30556
Urban and local source effects on precipitation chemistry
[DE84-011848] 21 p3436 N84-31803

SULFATION
Breakaway corrosion in mixed-gas environments
[DE83-014704] 03 p0354 N84-12299
Oxidation-sulfidation behavior of Fe-Cr-Ni alloys containing additions of Zr, Nb, or Ti
[DE84-005411] 20 p3156 N84-30043

SULFIDES
NT CADMIUM SULFIDES
NT CARBON DISULFIDE
NT COPPER SULFIDES
NT HYDROGEN SULFIDE
NT LEAD SULFIDES
NT MOLYBDENUM DISULFIDES

NT MOLYBDENUM SULFIDES
NT POLYSULFIDES
NT ZINC SULFIDES
Preliminary study of the electrolysis of aluminum sulfide in molten salts
[DE83-014552] 01 p0038 N84-10242
Electrochemistry of the sulfide-polysulfide couple
[DE84-005881] 11 p1629 N84-20661
Sulfidation- and oxidation-resistant ferritic stainless steel containing aluminum
[PB84-189521] 20 p3165 N84-30101
Lithium-alloy/metal sulfide battery research
[DE84-013427] 22 p3587 N84-32720
Thermal management of a lithium/iron-sulfide battery
[DE84-013436] 22 p3587 N84-32722
Electrochemical performance of porous nickel sulfide electrodes
[DE84-009586] 22 p3590 N84-32741
SULFONATES
Luminescence probe studies of nafion polyelectrolytes
[AD-A133519] 06 p0801 N84-15224
Synthesis of energetic prepolymers
[AD-A135770] 09 p1288 N84-18409
SULFONES
Mechanical properties of bis-phenol-A polysulfone and acetylene terminated bis-phenol-A blend
[AD-A131277] 02 p0200 N84-11303
The performance of the perfluorocarbon liquid/plastic-film capacitor technology in pulse-power service. A current status report
[DE83-014606] 03 p0369 N84-12402
Processing study of a polyimidesulfone adhesive
[NASA-TM-85742] 07 p0978 N84-16339
TICA (Torsion Impregnated Cloth Analysis) study of high-temperature thermoplastics
[AD-A137048] 10 p1468 N84-19586
Ethynyl and substituted ethynyl-terminated polysulfones
[NASA-CASE-LAR-12931-1] 13 p1962 N84-22747
Cumulative creep damage for polycarbonate and polysulfone
[NASA-CR-173433] 16 p2471 N84-25840
Improved acid electrolytes for fuel cells
[PB84-179779] 16 p2519 N84-26173
Characterization of Acetylene Terminated Sulfone (ATS-G)
[AD-A141348] 18 p2819 N84-27897
Sulfone-ester polymers containing pendent ethynyl groups
[NASA-CASE-LAR-13316-1] 19 p2996 N84-28987
A study of the effects of end-cap molecular species on environmental characteristics of polimidesulfones
[NASA-TM-86283] 22 p3544 N84-32437
Three-dimensional photochemical machining with lasers
[AD-A143928] 23 p3754 N84-33798
SULFONIC ACID
Improved acid electrolytes for fuel cells
[PB84-179779] 16 p2519 N84-26173
SULFUR
High-temperature corrosion of iron and iron-based alloys in sulfur-containing atmospheres
[DE83-013843] 01 p0045 N84-10290
Sulfur extended asphalt pavement evaluation in the State of Washington: SR 270 highway pavement performance report
[PB83-205567] 01 p0058 N84-10380
Sulfur extended asphalt pavement evaluation: Executive summary
[PB83-205971] 01 p0058 N84-10381
Performance specifications for continuous monitoring of total reduced sulfur emissions (proposed July 20, 1981, 46 FR 37287), summary of comments and responses
[PB83-251009] 04 p0561 N84-13696
X-ray fluorescence determination of sulphur in oils by a thin film method
[MRL-TN-474] 05 p0646 N84-14250
Atomospheric studies pertaining to sulfur in the environment
[DE84-001455] 05 p0701 N84-14597
Geological and geochemical controls on the chemical evolution of subsurface water in undisturbed and surface-mined landscapes in western North Dakota
[PB84-126952] 08 p1180 N84-17685
The 1950 sulfur flow of Mauna Loa: Considerations for Io 13 p2080 N84-23479
The effect of property changes on jet fuel producibility and cost 14 p2106 N84-23632
Abundances in galactic H2 regions, 3: G25.4-0.2, G45.5+0.06, M8, S159 and DR22
[NASA-TM-85962] 17 p2774 N84-27616
The 10 plasma torus: Its structure and sulfur emission spectra 17 p2776 N84-27626
Sulfur and antimony segregation to creep cavity surfaces in Ni and an FCC Fe-Ni-Cr alloy
[DE84-011458] 20 p3154 N84-30028
Improved oxidation sulfidation resistance of Fe-Cr-Ni alloys
[DE84-010066] 20 p3156 N84-30039
SULFUR CHLORIDES
Calcium-thionyl chloride battery technology
[AD-A133570] 06 p0830 N84-15401
SULFUR COMPOUNDS
NT BARITE
NT CADMIUM SULFIDES
NT CARBON DISULFIDE
NT COPPER SULFIDES
NT HYDROGEN SULFIDE
NT LEAD SULFIDES
NT LITHIUM SULFATES
NT MOLYBDENUM DISULFIDES
NT MOLYBDENUM SULFIDES
NT ORGANIC SULFUR COMPOUNDS
NT POLYSULFIDES
NT SODIUM SULFATES
NT SULFATES
NT SULFIDES
NT SULFONATES
NT SULFONES
NT SULFUR CHLORIDES
NT SULFUR DIOXIDES
NT SULFUR FLUORIDES
NT SULFUR OXIDES
NT SULFURIC ACID
NT THIAZINE (TRADEMARK)
NT THIOLS
NT ZINC SULFIDES
Epitaxial polymerization as a molecular engineering technique
[AD-A131405] 02 p0200 N84-11302
The electronic structure of C(2x2)S/Fe(100): S 3p-level dispersions and linewidths. Revision
[AD-A136124] 12 p1797 N84-21725
Desulfurization of hot reducing gas by means of metal oxides in a fixed bed reactor
[BMFT-FB-T-84-015] 16 p2463 N84-25783
SULFUR DIOXIDES
Mechanism and rates of the gas phase oxidations of sulfur dioxide and the nitrogen oxides in the atmosphere
[PB83-231324] 01 p0106 N84-10691
Characterization of reactants, reaction mechanisms and reaction products leading to extreme acid rain and acid aerosol conditions in southern California
[PB83-252825] 04 p0561 N84-13697
Effects of water on the cathode passivation by lithium dithionite in the Li/SO2 battery
[DE84-003103] 07 p0998 N84-16473
Modeling SO2 effects on the productivity and growth of plants
[DE83-010259] 07 p1027 N84-16655
Optical measurement of SO/sub 2 in combustion environments
[DE84-002927] 09 p1342 N84-18768
The plumes of IO: A detection of solid sulfur dioxide particles
[NASA-CR-175414] 12 p1922 N84-22523
Performance tests of 4-5 year old lithium sulphur dioxide batteries
[AD-A139842] 15 p2363 N84-25176
Acidification of rain by the oxidation of dissolved SO2 and the absorption of HNO3
[PB84-136368] 15 p2367 N84-25200
A review of the basic concepts of dense gas dispersion with special regard to modelling of heat transfer
[QUEL-1512/84] 16 p2487 N84-25952
Development of air sulfur concentration in Finland through the year 2000
[ISBN-951-697-178-4] 19 p3052 N84-29366
Intermediate-range grid model and user's guide for atmospheric sulfur dioxide and sulfate concentrations and depositions: Wisconsin Power Plant Impact Study
[PB84-189257] 20 p3238 N84-30556
State-of-the art Differential Absorption and Scattering (DAS) lidar for SO2 and NO2 23 p3780 N84-33966
SULFUR FLUORIDES
Performance of the perfluorocarbon liquid/plastic film capacitor technology in repetitive discharge pulse power service
[DE83-012502] 01 p0073 N84-10477
Transport and relaxation processes in supercritical fluids
[DE83-015966] 03 p0373 N84-12432
Dispersion experiments with sulfur hexafluoride from the 213m high meteorological mast at Cabauw in the Netherlands 08 p1183 N84-17706
New techniques for medium voltage SF6 switches
[CAHIERS-TECHNIQUES-121] 10 p1488 N84-19726
Rotating arc cutoff with a Fluarc switch or a Rollarc contactor in SF6
[CAHIERS-TECHNIQUES-123] 15 p2330 N84-24993
Control fo switching induced surges using SF6 devices
[CAHIERS-TECHNIQUES-125] 15 p2331 N84-24995
Negative ion formation in SF3 spark by-products
[DE84-012340] 20 p3161 N84-30212
SULFUR OXIDES
NT SULFUR DIOXIDES
Effects of solvent and supporting electrolyte on the electrochemical reduction of sulfur dioxide
[DE83-013436] 01 p0038 N84-10241
Pure rotational spectroscopy of SO2 using fix line far-infrared lasers
[DE84-001427] 07 p0972 N84-16301
Review of the National Ambient Air Quality Standards for sulfur oxides: Assessment of scientific and technical information
[PB84-102920] 08 p1184 N84-17711
Air pollution effects on terrestrial ecosystems
[PB84-128313] 08 p1184 N84-17712
Relation of urban model performance to stability
[PB84-130418] 11 p1678 N84-20940
Acid rain information book
[DE83-013693] 12 p1845 N84-22026
European views on controlling acid rain
[PB84-194208] 20 p3239 N84-30563
SULFURIC ACID
Exposure chamber for studies of pollutant gases and aerosols in human subjects: Design considerations
[DE84-001135] 06 p0890 N84-15785
Formation of acid deposition: Atmospheric chemical tranformation and deposition
[REPT-107] 07 p1027 N84-16654
Concentration of sulphuric acid: Premature failure of Bamag pots
[MRL-R-885] 08 p1123 N84-17301
Friction and wear of iron in sulfuric acid
[NASA-TP-2289] 12 p1796 N84-21716
Friction and wear of nickel in sulfuric acid
[NASA-TP-2290] 12 p1797 N84-21721
Effect of sulfuric acid, oxygen, and hydrogen in high-temperature water on stress corrosion cracking of sensitized Type 304 stainless steel
[DE84-007276] 15 p2286 N84-24795
MoO3, ex MoS2, with further processing of the metal-bearing waste sulfuric acid generated in the process
[BMFT-FB-T-83-297] 15 p2366 N84-25196
Interaction of sulfuric acid corrosion and mechanical wear of iron
[NASA-TM-83717] 18 p2813 N84-27857
Evaluation of sulfuric acid hydrolysis processes for alcohol fuel production
[DE84-004524] 23 p3715 N84-33548
SUMMARIES
NT ABSTRACTS
NT PRELAUNCH SUMMARIES
SUMMER
Summary of the VIN field program: Summer 1979
[AD-A130836] 01 p0108 N84-10704
A preliminary study of the observed vertical mode structure of the summer circulation over tropical South America
[INPE-2914-PRE/426] 07 p1031 N84-16689
Short-range local forecasting of coastal summer stratus by statistical techniques, a pilot study
[AD-A134590] 07 p1040 N84-16742
Light scattering condensation nuclei, and air mass trajectories at Whiteface Mountain: Summer 1982
[PB84-104363] 08 p1188 N84-17742
Evaluation of point precipitation probability forecasts using radar estimates of rainfall areal coverage
[PB84-121060] 09 p1350 N84-18821
On the onset of the planetary scale monsoon 11 p1664 N84-20986
Interannual variability of Indian monsoon rainfall 12 p1855 N84-22081
Variation of Arctic cloud cover during summer 1979, part 1
[DE84-008998] 19 p3057 N84-29395
Active microwave measurements of sea ice in the marginal ice under summer conditions 23 p3772 N84-33913
Observation of variations in the composition of sea ice in the Greenland MIZ during early summer 1983 with the Nimbus-7 SMMR — Marginal Ice Zone (MIZ); Scanning Multichannel Microwave radiometer (SMMR) 23 p3773 N84-33916
SUMS
Technique for producing a coherent sum of the data from P78-1, F2, and F4 satellites
[AD-A131965] 03 p0340 N84-12210
On Waring's problem g (4) or = 20 03 p0425 N84-12781
Twisted sums of nuclear Frechet spaces 04 p0576 N84-13800

An algorithm for additive representation of positive integers
[ISSN-0355-0087] 12 p1892 N84-22325
SUN
Proceedings of the STIP (Study of Travelling Interplanetary Phenomena) Symposium on Solar Radio Astronomy, Interplanetary Scintillations and Coordination with Spacecraft
[AD-A130687] 01 p0165 N84-11087
Solar-geophysical data number 462, February 1983. (Supplement). Explanation of data reports
[PB83-216234] 01 p0166 N84-11089
Solar-geophysical data, number 463, March 1983. Part 2: (Comprehensive reports). Data for September 1982, September 1980 and miscellanea. Explanation of data reports issued as number 462 (supplement) February 1983
[PB83-216317] 01 p0166 N84-11090
Solar-geophysical data number 464, April 1983. Part 1: Prompt report. Data for March 1983, February 1983 and late data. Explanation of data reports issued as number 462 (supplement) February 1983
[PB83-222489] 01 p0166 N84-11091
Stability of the low degree 5 minute solar oscillations
[DE84-003786] 08 p1246 N84-18143
Solar-geophysical data center number 467, July 1983, part 1 (prompt reports). Data for June 1983, May 1983 and late data
[PB84-100486] 08 p1246 N84-18144
Solar-geophysical data number 467, July 1983, part 2 (comprehensive reports). Data for January 1983, November 1980 and miscellanea
[PB84-100494] 08 p1246 N84-18145
Solar-geophysical data number 468, August 1983. Part 1. (Prompt reports). Data for July 1983, June 1983 and late data
[PB84-116573] 09 p1417 N84-19270
Solar-geophysical data number 468, August 1983. Part 2. (Comprehensive reports). Data for February 1983 and miscellanea
[PB84-116581] 09 p1417 N84-19271
2nd Joint Solar Dynamics Project data summary: Solar magnetic field, chromospheric and coronal observations near the time of the 11 June 1983 solar eclipse
[NASA-CR-173340] 09 p1417 N84-19272
Solar-geophysical data number 469, September 1983. Part 1: (Prompt reports. Data for August 1983, July 1983 and late data)
[PB84-125913] 09 p1417 N84-19273
Solar-geophysical data number 469, September 1983, part 2 (comprehensive reports). Data for March 1983 and miscellanea
[PB84-125921] 09 p1417 N84-19274
Dynamic signatures of quiet sun magnetic fields
[NASA-CR-173361] 10 p1597 N84-20464
A high resolution solar atlas for fluorescence calculations
[NASA-CR-173366] 10 p1597 N84-20465
Physics and chemistry in the primitive solar nebula
[MPE-PREPRINT-21] 13 p2091 N84-23547
A comparative look at sunspot cycles
[NASA-TP-2325] 14 p2251 N84-24520
Limb darkening variations 17 p2779 N84-27645
Helium 10830 angstrom irradiance: 1975-1983
17 p2779 N84-27648
Implementation of the Sun position calculation in the PDC-1 control microprocessor 18 p2875 N84-28257
On the identification of normal modes of oscillation from observations of the solar periphery
[NASA-CR-173667] 19 p3123 N84-29844
White light solar corona: An atlas of 1963 K-coronameter synoptic charts
[PB84-184159] 20 p3320 N84-31075
Fundamental and harmonic emission in interplanetary type 2 radio bursts
[NASA-TM-86099] 20 p3320 N84-31079
The shape of the Sun 21 p3526 N84-32334
Observations and analysis of solar flares using H Alpha spectral profiles 21 p3526 N84-32335
Expressions to determine temperatures and emission measures for solar X-ray events from GOES measurements
[NASA-TM-86142] 22 p3679 N84-33325
Solar variability observed through changes in solar figure and mean diameter
[DE84-013914] 22 p3680 N84-33328
Solar Terrestrial Physics: Present and Future
[NASA-RP-1120] 23 p3836 N84-34332
Evolution of solar magnetic flux
23 p3836 N84-34335
MHD waves and turbulence in the Sun and interplanetary medium 23 p3837 N84-34336
On long-term periodicities in the sunspot record
[NASA-TM-86458] 23 p3844 N84-34388
Resonant 3-wave interactions and an application to the 160 minute solar oscillation 24 p3992 N84-35263
A new class of solar burst with MM-wave emission but only at the highest frequency (90 GHz)
[NASA-TM-87369] 24 p3992 N84-35264
Studies of solar magnetic fields during the solar maximum year
[NASA-TM-86469] 24 p3992 N84-35265
SUN SENSORS
U SOLAR SENSORS
SUNLIGHT
An analysis of cloud cover at Johannesburg, Cape Town and Durban, in South Africa
[CSIR-NBRI-SR-BOU-60] 04 p0566 N84-13734
Techniques for measuring radiance in the air and sea
06 p0871 N84-15672
Ion measurements on GEOS using a negatively biased sensor on a positively charged spacecraft
06 p1117 N84-17263
On the infra-red brightness level increase caused by the sun light during the eclipse period
09 p1347 N84-18804
Intensity and absorbed-power distribution in a cylindrical solar-pumped dye laser
[NASA-TP-2321] 14 p2150 N84-23678
Predicting energy savings attributed to daylighting
16 p2514 N84-26132
The predicted impact of linear roof apertures on the energy performance of office buildings
16 p2514 N84-26133
Sun/Moon capture evaluation
[AD-P003160] 17 p2588 N84-26591
Effects of natural light conditions on biorhythms in polar dwellers 18 p2897 N84-28376
Atmospheric transmittance model for a solar beam propagating between a heliostat and a receiver
[DE84-007960] 18 p2953 N84-28716
Sunlight probability data for select cities in the US
[DE84-000006] 20 p3247 N84-30605
Reduction of CO2 to methanol and methane by photo and dark reactions on semiconductor electrodes
[PB84-214360] 21 p3383 N84-31334
SUNRISE
A dawn to dusk electric field in the Jovian magnetosphere
[NASA-CR-166463] 08 p1245 N84-18136
SUNSET
A dawn to dusk electric field in the Jovian magnetosphere
[NASA-CR-166463] 08 p1245 N84-18136
Stratospheric NO and NO2 profiles at sunset from analysis of high-resolution balloon-borne infrared solar absorption spectra obtained at 33 deg N and calculations with a time-dependent photochemical model
[NASA-TM-86285] 20 p3240 N84-30566
SUNSPOT CYCLE
A comparative look at sunspot cycles
[NASA-TP-2325] 14 p2251 N84-24520
Energy flow continuity in solar active regions
17 p2779 N84-27643
On long-term periodicities in the sunspot record
[NASA-TM-86458] 23 p3844 N84-34388
SUNSPOTS
Tidal and solar cycle effects on the OI 5577 angstrom, NaD and OH(8,3)airglow emissions observed at 23 deg S
[INPE-2901-PRE/419] 02 p0248 N84-11620
Solar cycle variations in the interplanetary magnetic field 03 p0469 N84-13091
The amplitude density function and high-resolution frequency analysis of time series
[AD-A132466] 04 p0592 N84-13906
The calculation of theoretical chromospheric models and the interpretation of solar spectra from rockets and spacecraft
[NASA-CR-175351] 07 p1092 N84-17105
Ground-based measurements of solar irradiance variations 17 p2778 N84-27639
Energy flow continuity in solar active regions
17 p2779 N84-27643
Solar-geophysical data explanation of reports, February 1984, number 474, supplement
[PB84-188697] 20 p3320 N84-31078
Solar-Geophysical Data, no. 475, March 1984. Part 1: Prompt reports. Data for September 1983, May 1981
[PB84-201508] 22 p3680 N84-33329
Solar-Geophysical Data, no. 475, March 1984. Part 2: Comprehensive reports. Data for September 1983, May 1981 and miscellanea
[PB84-201516] 22 p3680 N84-33330
On long-term periodicities in the sunspot record
[NASA-TM-86458] 23 p3844 N84-34388
Studies of solar magnetic fields during the solar maximum year
[NASA-TM-86469] 24 p3992 N84-35265
A numerical simulation study of solar wind disturbances responsible for geomagnetic and auroral storms
[AD-A144178] 24 p3993 N84-35266
SUPERALLOYS
U HEAT RESISTANT ALLOYS
SUPERCHARGERS
Advanced turbocharger design study program
[NASA-CR-174633] 12 p1822 N84-21879
An overview of the NASA rotary engine research program
[NASA-TM-83699] 19 p2965 N84-28791
Diesel engine catalytic combustor system — aircraft engines
[NASA-CASE-LEW-12995-1] 23 p3756 N84-33808
SUPERCHARGING
U SUPERCHARGERS
SUPERCOMPUTERS
NT CRAY COMPUTERS
Scheduling supercomputers
[AD-A132512] 04 p0579 N84-13822
Learning about supercomputers on a microcomputer with no keyboard: A science museum exhibit
[DE84-001177] 19 p3073 N84-29496
Supercomputers: The next ten years. A user's view
[DE84-011072] 20 p3267 N84-30727
The S-1 Mark IIA supercomputer
[DE84-012374] 20 p3267 N84-30732
Review of NASA's (National Aeronautics and Space Administration) Numerical Aerodynamic Simulation Program
[NASA-CR-173842] 20 p3276 N84-30799
Thinking big
[DE84-007412] 21 p3462 N84-31951
SUPERCONDUCTING MAGNETS
Design conditions for fail safe quenching of a high current density superconducting solenoid with a shorted secondary circuit
[LBL-14859] 01 p0069 N84-10449
Technical analyses and related planning assistance in supporting of DOE's superconducting magnetic energy storage program
[DE83-012005] 01 p0139 N84-10909
Safety and protection for large-scale superconducting magnets. A FY 1982 report
[DE83-012961] 01 p0154 N84-11013
High-field Tokamaks with DD-DT operation and tritium-breeding requirements
[DE83-013092] 02 p0296 N84-11939
Leak testing and repair of fusion devices
[DE83-014942] 02 p0296 N84-11944
Superconducting magnets for gyrotron tubes
[DE83-012815] 02 p0299 N84-11962
The technology of superconducting accelerator dipoles
[DE83-016470] 02 p0299 N84-11963
Self-correction coil: Operation mechanism of self-correction coil
[DE83-016324] 03 p0367 N84-12392
Advanced high-field coil designs: 20 Tesla
[DE83-017368] 03 p0368 N84-12397
Comparative evaluation of existing concepts for a 10-tesla FED toroidal field coil
[DE83-012817] 03 p0429 N84-12815
The 12-T solenoid-design options for the MFTF-B upgrade
[DE83-016646] 03 p0430 N84-12817
Ripple-reduction poloidal-field coils for Tokamak reactors
[DE83-009532] 03 p0445 N84-12922
Thermal performance of the MFTF magnets
[DE83-016275] 03 p0454 N84-12968
Superconductor stability, 1983: A review
[DE83-015506] 03 p0454 N84-12990
Operational studies and expected performance of superconducting quadrupole magnets in the first stages of secondary beams
[DE83-016734] 03 p0456 N84-12999
Control and operation cost optimization of the HISS cryogenic system
[DE83-017741] 04 p0515 N84-13384
Cryogenic testing of the TPC superconducting solenoid
[DE84-000528] 04 p0527 N84-13467
Void-free epoxy castings for cryogenic insulators and seals
[DE83-017273] 04 p0529 N84-13479
Ideal of the perfect magnet-superconducting systems
[DE83-015080] 04 p0529 N84-13482
Analytical studies of advanced high-field designs: 20-Tesla large-bore superconducting magnets
[DE83-017591] 04 p0594 N84-13918
Magnetic field measurements of superconducting magnets for the colliding beam accelerator
[DE83-017351] 04 p0603 N84-13982
Electrical and magnetic properties of the energy-saver correction elements
[DE83-017327] 04 p0603 N84-13983

Forced two-phase cooling of the TPC superconducting solenoid
[DE83-017749] 04 p0613 N84-14049
Colliding-beam-accelerator lattice
[DE83-017875] 04 p0614 N84-14050
Materials studies for magnetic fusion energy applications at low temperatures, part 6
[PB83-259630] 05 p0657 N84-14320
Utilization of low temperatures in electrical machines
[AD-A133325] 06 p0630 N84-15399
LBL program of 1 meter long, 50 mm diameter bore, dipoles with fields greater than 8 tesla
[DE84-002902] 07 p1073 N84-16973
Design, construction and test of a 0.61-meter-diameter, epoxy impregnated superconductive magnet
[AD-A135339] 08 p1226 N84-18009
Ultra-high-field superconducting magnets
[DE84-003913] 08 p1226 N84-18012
Discharging a superconducting store into an inverting converter
[AD-A135577] 09 p1341 N84-18761
Application of He-II technology to the production of ultrahigh-field superconducting magnets
[DE84-004853] 10 p1575 N84-20319
Field generated within the SSC magnets due to persistent currents in the superconductor
[DE84-006629] 12 p1915 N84-22476
Dipole aperture and superconductor requirements
[DE84-006011] 12 p1916 N84-22483
Some optics alternatives for the FFS
[DE84-008255] 14 p2225 N84-24355
Effect of manufacturing errors on field quality of the LBL SSC dipoles
[DE84-009224] 19 p3033 N84-29238
Magnetic suspension and balance system study
[NASA-CR-3802] 20 p3132 N84-29888
New 1-phase dual converter for superconducting inductive energy storage and transfer applications: The 1-phase inductor-converter bridge
[DE84-012118] 20 p3179 N84-30193
Commissioning tests of the Bonneville Power Administration 30 MJ superconducting magnetic energy storage unit
[DE84-006033] 20 p3285 N84-30860
Normal zone detectors for a large number of inductively coupled coils, revision 1
[DE84-011053] 21 p3392 N84-31526
Improved superconducting magnet wire
[DE84-011233] 21 p3393 N84-31531
Switching transients in a superconducting coil
[DE84-012592] 21 p3393 N84-31532
Alternative power supply and dump resistor connections for similar, mutually coupled, superconducting coils
[DE84-012602] 21 p3393 N84-31534
Method and apparatus for making superconductive magnet coils
[DE84-014510] 22 p3590 N84-32737

SUPERCONDUCTING POWER TRANSMISSION
Transient high-field behavior of niobium superconducting cavities
[DE83-011852] 01 p0068 N84-10443
Plant and operational features of the BPA 30 MJ superconducting magnetic energy storage system
[DE84-006006] 19 p3011 N84-29086

SUPERCONDUCTING QUANTUM INTERFEROMETERS
U SQUID (DETECTORS)

SUPERCONDUCTIVITY
Phase-slip centers and their interactions
[AD-A130914] 01 p0153 N84-11006
Transient response of superconducting microbridges to supercritical currents
[AD-A130913] 01 p0153 N84-11007
Synchronous generators with superconductive excitation windings
[AD-A131832] 03 p0366 N84-12382
Unipolar machine with superconductive excitation winding
[AD-A131820] 03 p0366 N84-12383
The relationship between the martensitic phase transition and the superconducting properties of A15 compounds
[DE83-018186] 04 p0529 N84-13477
Is it superconductivity at 293 k?
[AD-A132545] 04 p0612 N84-14037
Far infrared studies on superconductors and heat-capacity studies on liquid crystals
[DE84-001105] 04 p0613 N84-14046
Surface properties of metal-nitride and metal-carbide films deposited on Nb for RF superconductivity
[DE84-001491] 04 p0614 N84-14055
Applications of Josephson junction squids and arrays
[AD-A134114] 05 p0673 N84-14425
A model for superconductivity in graphite intercalation compounds
[AD-A133862] 05 p0753 N84-14937
Pressure quenched excitonic solids
[AD-A133817] 05 p0753 N84-14940
Impurities in the heavy-Fermion superconductor UBe13
[DE84-001731] 05 p0755 N84-14951
Concerning the possibility of employing superconducting systems for analyzing the composition of cosmic rays
[AD-A133792] 05 p0765 N84-15021
Superconducting ground state of a strongly interacting electron system: UBe13
[DE84-001708] 06 p0823 N84-16003
Superconducting properties of Nb3Sn multifilamentary wires fabricated by internal tin process
[DE83-018189] 06 p0925 N84-16011
Role of pressure in understanding the anomalous superconductivity in europium (molybdenum)6(sulfur)8 and (TMTSF)2FSO3
[DE83-017292] 06 p0925 N84-16012
Possibility of investigation of Kimberlite pipes by superconductive geomagnetic variation measuring stations
[CSIR-TRANS-1701] 06 p1185 N84-17724
Metastable superconducting pairs with large momentum
[AD-A136246] 09 p1385 N84-19045
Critical current of the dispersion superconducting phase, obtained during aging
[AD-A136024] 09 p1396 N84-19118
Superconductivity in filamentary eutectic composites
[DE84-005167] 10 p1453 N84-19489
Filamentation in the plasma focus as a plasma Meissner effect 10 p1584 N84-20380
A far-infrared laser study of small-area superconducting tunnel junctions
[AD-A137186] 11 p1744 N84-21383
Observation of bistability in a Josephson device 14 p2235 N84-24409
Theory of multistability in Josephson junction devices 14 p2235 N84-24410
Determination of propped fracture length by detection of injected magnetic material with surface superconducting magnetometers
[PB84-161320] 17 p2696 N84-27176
Superconductivity for electromagnetic guns
[AD-A140665] 17 p2764 N84-27556
Dependence of properties of Josephson junctions at semiconductor surface on parameters of subsurface layer 18 p2825 N84-27936
Plant and operational features of the BPA 30 MJ superconducting magnetic energy storage system
[DE84-006006] 19 p3011 N84-29086
USSR report: Physics and mathematics
[JPRS-UPM-84-001] 20 p3285 N84-30862
Operating modes of superconducting current converters in service 21 p3379 N84-31445
Anomalous surface impedance in reentrant ferromagnetic superconductors
[DE84-012634] 22 p3664 N84-33230
Dynamics of normal-zone propagation in Ta at small currents
[DE84-009990] 22 p3666 N84-33245
Superconducting AC generators
[BMFT-FB-T-84-102] 23 p3744 N84-33737
Superconducting and semiconducting properties of electron-beam evaporated materials
[DE84-013470] 23 p3830 N84-34296

SUPERCONDUCTORS
Metallurgical characterization of Niobium/Tin superconducting multifilamentary wires
[AD-A131018] 01 p0044 N84-10281
Pressure studies of organic superconductors
[DE83-015344] 01 p0155 N84-11021
Correlation of superconductor strand, cable, and dipole critical currents in CBA magnets
[DE83-003951] 02 p0214 N84-11400
Cryogenic system for a superconducting spectrometer
[DE83-012995] 02 p0299 N84-11961
Spallation and 14-MeV neutron irradiation of stabilized NbTi superconductors
[DE83-017973] 03 p0368 N84-12394
Storage of energy in magnetic field of superconductive coils
[AD-A131898] 03 p0403 N84-12636
University of Washington superconducting-booster project
[DE83-015889] 03 p0434 N84-12846
Superconducting stability, 1983: A review
[DE83-017262] 03 p0455 N84-12995
Phonon-induced enhancements of the energy gap and critical current in superconducting aluminum
[DE83-015210] 03 p0455 N84-12996
Superconducting niobium thin film slow-wave structures 04 p0518 N84-13405
Outline of methods for design of superconducting turbogenerators
[AD-A132528] 04 p0525 N84-13451
Neutron-scattering studies of magnetic superconductors
[DE84-000393] 04 p0614 N84-14054
Far-infrared studies on superconductors and heat-capacity studies on liquid crystals
[DE84-001123] 05 p0756 N84-14957
Microwave dynamics of quasiparticles and critical fields in superconducting films 05 p0756 N84-14961
US Navy program in small cryocoolers 06 p0818 N84-15328
Utilization of low temperatures in electrical machines
[AD-A133325] 06 p0630 N84-15399
Artificially layered superconductors
[DE84-002766] 07 p1082 N84-17037
Form coefficient for the field of a superconducting synchronous machine
[AD-A134751] 08 p1226 N84-18010
Film synthesis and new superconductors
[AD-A135102] 08 p1234 N84-18068
S-I-S mm-wave mixers and detectors
[AD-A134782] 08 p1235 N84-18074
The possibilities of application of superconductors in electronics
[AD-A136486] 09 p1307 N84-18543
Developed electrotechnology during a cosmic frost
[AD-A135575] 09 p1308 N84-18552
Problems in the development of high-power turbogenerators with superconducting field windings
[AD-A136525] 09 p1325 N84-18657
Problems of building turbogenerators with windings made of superconductors and pure metals
[AD-A137198] 10 p1485 N84-19710
An electromagnetic squeezer for compressing squeezable electron tunneling junctions
[AD-A136668] 10 p1588 N84-20410
Thin film technology of high-critical-temperature superconducting electronics
[AD-A136722] 10 p1589 N84-20411
Choice of IP geometry and beam parameters for the SSC
[DE84-006610] 12 p1903 N84-22390
Field generated within the SSC magnets due to persistent currents in the superconductor
[DE84-006629] 12 p1915 N84-22476
Lattice for a low-field superconducting super collider
[DE84-006022] 12 p1916 N84-22482
RF properties of superconducting A-15 compounds
[AD-A139067] 13 p2047 N84-23285
Superconducting power transmission system development. Cable insulation development
[DE84-007805] 14 p2142 N84-23847
Magnetic impurities in superconductors
[DE84-007871] 14 p2243 N84-24467
Spiral Kicker for the beam abort system
[DE84-007267] 15 p2406 N84-25442
Pulsed magnetic field testing of multifilamentary Nb3Sn superconducting wire
[DE84-008250] 15 p2414 N84-25492
Dependence of properties of Josephson junctions at semiconductor surface on parameters of subsurface layer 18 p2825 N84-27936
Demonstration of SQUID (Superconducting QUantum Interference Device) parametric amplifier
[AD-A141326] 18 p2834 N84-27992
How much random sextupole field can we have in the presence of beam-beam interactions
[DE84-009867] 19 p3102 N84-29709
Superconducting electronic film structures
[AD-A141113] 19 p3110 N84-29760
A 6.5 Tesla SSC lattice example
[DE84-010719] 20 p3285 N84-30858
Detecting optical polarization of nuclei in semiconductors with super-conducting quantum interferometer 20 p3286 N84-30865
High-gradient, pulsed operation of superconducting niobium cavities
[DE84-012498] 20 p3311 N84-31030
Improved superconducting magnet wire
[DE84-011233] 21 p3393 N84-31531
Electromagnetic excitation of sound in metals 21 p3484 N84-32082
Magnetic impurity scattering in in situ superconductors
[DE84-012835] 21 p3505 N84-32212
Superconductive films in microwave microelectronics (survey) 22 p3569 N84-32604
Present status and probable future capabilities of heavy-ion linear accelerators
[DE84-011741] 22 p3653 N84-33158
The proximity effects of superconducting multilayer film
[AD-A143255] 22 p3662 N84-33217
Studies of structural properties and their relationship to critical parameters in superconducting materials
[AD-A143556] 22 p3664 N84-33227

Anomalous surface impedance in reentrant ferromagnetic superconductors
[DE84-012634] 22 p3664 N84-33230
Dynamics of normal-zone propagation in Ta at small currents
[DE84-009990] 22 p3666 N84-33245
Superconducting AC generators
[BMFT-FB-T-84-102] 23 p3744 N84-33737
Superconducting and semiconducting properties of electron-beam evaporated materials
[DE84-013470] 23 p3830 N84-34296
Superconducting resonators — niobium
[BMFT-FB-T-84-119] 23 p3831 N84-34303
Synthesis and characterization of superconducting electronic materials
[AD-A144137] 24 p3966 N84-35116

SUPERCOOLING
NT CRYOGENIC COOLING
Heat transfer to subcooled HE 1
[DE83-017787] 04 p0535 N84-13520
Grain refining and microstructural modification during solidification
[AD-A134605] 07 p0974 N84-16314
A new data base of supercooled cloud variables for altitudes up to 10,000 ft. AGL and the implications for low altitude aircraft icing
[DOT/FAA/CT-83/21] 07 p1096 N84-16718
Some fundamental aspects of solidification in a supercooled melt
[NASA-TM-83714] 17 p2623 N84-26787
Anomalies in, and crystallization of supercooled water and aqueous solutions
[AD-A140582] 17 p2767 N84-27573

SUPERCRITICAL AIRFOILS
NT SUPERCRITICAL WINGS
Redesign and cascade tests of a supercritical controlled diffusion stator blade-section
[NASA-TM-83635] 13 p1926 N84-22533
Wind tunnel investigations on thin supercritical airfoils in the high subsonic flow regime
[ESA-TT-774] 16 p2440 N84-25652
Transonic aeroelastic stability and response of conventional and supercritical airfoils including active controls 17 p2598 N84-26855
Status of advanced airfoil tests in the Langley 0.3-meter transonic cryogenic tunnel 18 p2783 N84-27664
Aerodynamic characteristics of 2 NASA supercritical airfoils with different maximum thickness
[NASA-TM-X-2532] 18 p2784 N84-27667
High Reynolds number tests of a Boeing BAC I airfoil in the Langley 0.3-meter transonic cryogenic tunnel
[NASA-TM-81922] 18 p2786 N84-27684
High Reynolds number tests of the cast 10-2/DOA 2 airfoil in the Langley 0.3-meter transonic cryogenic tunnel, phase 2
[NASA-TM-86273] 23 p3689 N84-33382
TRANSEP: A program for high lift separated flow about airfoils
[NASA-CR-3376] 23 p3690 N84-33386

SUPERCRITICAL FLOW
Separation as asphaltenes using high-resolution supercritical-fluid chromatography 01 p0038 N84-10240
Transonic airfoil development 03 p0317 N84-12076
Capillary supercritical fluid chromatography of polycyclic aromatic compounds
[DE84-002939] 07 p0972 N84-16302
The status of analytical preparation for 2-dimensional testing at high transonic speeds in the University of Southampton transonic self-streamlining wind tunnel
[NASA-CR-3785] 11 p1602 N84-20494
Supercritical fluid chromatography/supersonic jet spectroscopy
[DE84-007364] 15 p2287 N84-24724
Supercritical fluid methods in analytical chemistry
[DE84-006289] 15 p2288 N84-24728
Developing turbulent flow in a 180(0) curved pipe and its downstream tangent
[DE84-013391] 22 p3595 N84-32767

SUPERCRITICAL PRESSURES
Oil shale extraction using super-critical extraction
[NASA-CASE-NPO-15656-1] 13 p2006 N84-23012

SUPERCRITICAL WINGS
Numerical calculation of the transonic potential flow past a cranked wing
[NASA-TM-84391] 01 p0008 N84-10049
Transonic flutter clearance for a supercritical transport aircraft in the preliminary stage 02 p0170 N84-11121
Transonic airfoil development 03 p0317 N84-12076
Transonic empirical configuration design process 03 p0318 N84-12079
Analysis of pressure distributions on a wing with an oscillating trailing edge flap in subsonic and transonic flow 04 p0478 N84-13145
Investigation to optimize the passive shock wave-boundary layer control for supercritical airfoil drag reduction
[NASA-CR-173276] 07 p0946 N84-16135
An experimental investigation of nacelle-pylon installation on an unswept wing at subsonic and transonic speeds
[NASA-TP-2246] 09 p1250 N84-18162
Measured transonic unsteady pressures on an energy efficient transport wing with oscillating control surfaces 18 p2783 N84-27663
Langley high-lift research on a high-aspect-ratio supercritical wing configuration 18 p2784 N84-27665
Selected advanced aerodynamic and active control concepts development
[NASA-CR-3469] 18 p2786 N84-27683
Configuration design studies and wind tunnel tests of an energy efficient transport with a high-aspect-ratio supercritical wing
[NASA-CR-3524] 19 p2955 N84-28727
Results of design studies and wind tunnel tests of high-aspect-ratio supercritical wings for an energy efficient transport
[NASA-CR-159332] 19 p2956 N84-28735
Pressure distribution data from tests of 2.29-meter (7.5-ft.) span EET high-lift research model in Langley 4-by 7-meter tunnel
[NASA-TM-83111] 19 p2957 N84-28739
Wind tunnel tests of high-lift systems for advanced transports using high-aspect-ratio supercritical wings
[NASA-CR-3523] 19 p2957 N84-28742
Subsonic and transonic unsteady- and steady-pressure measurements on a rectangular supercritical wing oscillated in pitch — wind tunnel tests
[NASA-TM-85765] 22 p3530 N84-32348
Experience with transonic unsteady aerodynamic calculations
[NASA-TM-86278] 22 p3530 N84-32353
Results of design studies and wind tunnel tests of an advanced high lift system for an Energy Efficient Transport
[NASA-CR-159389] 23 p3693 N84-33403

SUPERFLUID FLOW
U SUPERFLUIDITY

SUPERFLUIDITY
Optimized He 2 cooling systems for space application. Behavior and handling of superfluid helium at G = 0, phase 1
[BMFT-FB-W-83-006] 02 p0207 N84-11349
Transient heat transfer in superfluid helium, part 2
[DE83-015767] 03 p0453 N84-12984
The far infrared sky survey experiment
[AD-A131966] 03 p0461 N84-13037
A report on superfluid helium flow through porous plugs for space science applications 06 p0930 N84-16043
Zero gravity experiment of superfluid helium
[ISAS-604] 07 p0960 N84-16225
Using the surface tension to estimate the condensate density of superfluid He-4
[DE83-011325] 08 p1236 N84-18077
Superfluid hydrodynamics of inhomogeneous states: Systems with broken gauge-translation-symmetry
[JUEL-1858] 10 p1495 N84-19773
Application of He-II technology to the production of ultrahigh-field superconducting magnets
[DE84-004853] 10 p1575 N84-20319
Absolute electroacoustic measurement of temperature oscillations in superfluid helium by the reciprocity method
[AD-A136951] 10 p1575 N84-20322
Remarks on thermal analyses of thin 4He films in superfluid heat pipe 20 p3169 N84-30121
Experimental study on porous-plug phase separator for superfluid He2
[ISAS-612] 20 p3308 N84-31008
Maximum supercooling in liquid 3He-4He mixtures near the tricritical point
[DE84-010076] 22 p3665 N84-33232
Period-doubling 2-torus state in a convecting He-3-superfluid He-4 solution
[DE84-009985] 22 p3666 N84-33243
Onset of oscillations in symmetric convective states in a superfluid He-3-He-4 mixture
[DE84-009984] 22 p3666 N84-33244
Optical effects of the gravitationally induced concentration gradient in tricritical 3He-4He
[DE84-009972] 23 p3830 N84-34297

SUPERGIANT STARS
Theory of winds in late-type evolved and pre-main-sequence stars 03 p0468 N84-13085
Measurements of chromospheric densities and geometrical extensions of late-type giant and super-giant stars
[NASA-CR-175236] 07 p1089 N84-17079
Egress spectra of the new eclipsing supergiant 22 Vulpeculae 24 p3980 N84-35215
Evidence for variations in the phase-dependent ionization structure of the stellar wind in Vela X-1 24 p3981 N84-35220

SUPERHEATING
Interfacial tension between water and selected superheated liquids by quadrupole oscillations of drops
[AD-A136996] 10 p1455 N84-19502

SUPERHIGH FREQUENCIES
Development and flight test of an X-band precision approach concept for remote-area rotorcraft operations
[NASA-TM-84398] 01 p0007 N84-10041
EPR spectra of rare earth s-state ions in glassy systems
[DE83-014686] 01 p0155 N84-11022
Mathematical models for the brightness temperature of object and environment in the microwave region
[DFVLR-FB-83-12] 02 p0211 N84-11378
Phase A study for a test satellite for propagation and transmission experiments in the 20/30 GHz frequency band
[BMFT-FB-W-83-009] 03 p0362 N84-12355
Radar investigation of soils and sea (ERASME): C band helicopter-borne scatterometer. Application to soil moisture measurement 03 p0396 N84-12588
Pulsed-power diode generation of high-power microwaves
[DE84-001344] 04 p0523 N84-13440
Description of the preliminary measurements carried out on the 11 GHz experimental facility at Roma-Monte S. Pancrazio
[FUB-39-1982] 05 p0671 N84-14411
Applications of Josephson junction squids and arrays
[AD-A134114] 05 p0673 N84-14425
A model for superconductivity in graphite intercalation compounds
[AD-A133662] 05 p0753 N84-14937
Engineering evaluations and studies. Volume 1: Exhibit A
[NASA-CR-171724] 06 p0794 N84-15174
Engineering evaluations and studies. Volume 2: Exhibit B, part 1
[NASA-CR-171725] 06 p0794 N84-15175
Statistical data on anomalous propagation in the Tyrrhenian Sea using an X-band link 06 p0871 N84-15668
A digital ferrite phase-shifter for high power S-band operation 06 p0906 N84-15886
Characteristics of RF lightning emission at 2 GHz and 250 MHz 06 p0929 N84-16039
Digital transponder 11/14 GHz, 120 Mbit/sec. Phase 2: Transponder test equipment and system measurements
[BMFT-FB-W-83-013] 07 p0994 N84-16448
Animal sensitivity to super-high frequency electromagnetic fields in correlation to age 07 p1043 N84-16766
S-band SBAW microwave source, phase 2
[NASA-CR-175153] 08 p1142 N84-17432
S-band range tracker and Surveillance Lab interface
[AD-A134730] 08 p1145 N84-17451
Focusing the parabolic antenna
[NASA-CR-173304] 08 p1173 N84-17642
Spectrum resource assessment in the 5650-5925 MHz
[PB84-127430] 09 p1305 N84-18530
On the dielectric properties of dry snow in the 800 MHz to 13 GHz range — remote sensing
[REPT-S-135] 09 p1337 N84-18733
The Telecommunications and Data Acquisition Report
[NASA-CR-173263] 10 p1473 N84-19621
X-band uplink ground systems development 10 p1474 N84-19626
Doppler system phase transfer functions for a system with an X-band uplink and X-band and S-band downlinks 10 p1474 N84-19627
Development and qualification of a 20 GHz/30 W traveling wave tube — for satellites
[BMFT-FB-W-83-023] 10 p1488 N84-19727
Theory of the two-frequency operating mode of traveling-wave tubes of the O type
[AD-A137616] 11 p1646 N84-20763
Multipath propagation at 11, 18, and 36 GHz due to ducting
[FOA-C-20511-E2] 12 p1810 N84-21800
Rain attenuation at 11, 18, and 36 GHz
[FOA-C-20512-E2] 12 p1810 N84-21801
Millimeter wave metal-insulator-metal detector/mixer diode
[AD-A138391] 12 p1812 N84-21815

Study of the 13 GHz signal attenuation due to tropical rains
[CRPE-NT-113] 13 p1984 N84-22879
Analysis of propagation conditions at 20 and 30 GHz in Europe
[CRPE-NT-122] 13 p1984 N84-22880
X-band uplink technology demonstration at DSS-13 16 p2479 N84-25893
Reduction of the strut radiation of reflector antennas
[FI-454-TBR-35] 16 p2482 N84-25918
Integrated use of radar and satellite data — rain attenuation 18 p2886 N84-28334
A conformal SHF phased array for aircraft satellite communication
[AD-P003509] 21 p3384 N84-31477
The X, and L-band radar backscatterer analysis of agricultural crops in West Germany 23 p3767 N84-33879
Measurements of microwave backscattering signatures of the ocean surface using X-band and Ka-band airborne scatterometer/radiometer system 23 p3771 N84-33907
Oil spill detection with DFVLR X-band SLAR 23 p3781 N84-33973

SUPERHYBRID MATERIALS
NT GRAPHITE-EPOXY COMPOSITES

SUPERIMPOSITION (MATHEMATICS)
U SUPERPOSITION (MATHEMATICS)

SUPERLATTICES
InAsSb strained-layer superlattices for long wavelength detector applications
[DE84-001055] 06 p0924 N84-16004
An In0 2Ga0 8As/GaAs, modulation-doped, strained-layer superlattice field-effect transistor
[DE84-000136] 06 p0924 N84-16006
Material properties of semiconductor strained-layer superlattices
[DE84-002103] 07 p1082 N84-17034
Artificially layered superconductors
[DE84-002768] 07 p1082 N84-17037
Elementary excitations in semiconductor superlattices structures 08 p1234 N84-18065
Subbarrier absorption in a stationary superlattice
[NASA-TM-77387] 10 p1587 N84-20402
Superlattices and semiconductor/semiconductor interfaces
[AD-A136149] 12 p1913 N84-22465
Structural and electronic properties of artificial metallic superlattices
[DE84-002771] 12 p1915 N84-22477
Lattice for a low-field superconducting super collider
[DE84-006022] 12 p1916 N84-22482
Supersymmetric statistical models on the lattice
[DE84-006758] 15 p2414 N84-25494
Preparation of device quality strained-layer superlattices
[DE84-009486] 19 p3112 N84-29776
Superlattice structures grown by molecular beam epitaxy
[DE84-011288] 21 p3505 N84-32209

SUPERMASSIVE STARS
Nucleosynthesis in stellar explosions
[DE84-002787] 07 p1090 N84-17087

SUPERNOVA REMNANTS
Theoretical studies of X-ray emission from supernova remnants and other non-equilibrium astrophysical plasmas
[NASA-CR-175394] 10 p1597 N84-20468
A search for X-ray polarization in cosmic X-ray sources — binary X-ray sources and supernovae remnants
[NASA-CR-173635] 17 p2781 N84-27657
On supernovae as a source of interstellar dust. The current observational picture 18 p2947 N84-28686
Imagery and spectroscopy of supernova remnants and H-2 regions
[NASA-CR-171799] 19 p3121 N84-29841

SUPERNOVAE
Some theoretical studies of the interstellar medium 02 p0306 N84-12006
The Crab Nebula: A theoretical and observational study 04 p0617 N84-14074
Non-equilibrium X-ray emission from young supernova remnants 05 p0765 N84-15019
Automatic measurement of celestial objects: Stars, star clusters, galaxies, supernovae, and quasars 07 p1088 N84-17078
HI-182: A new stopwatch for the early solar system
[DE83-011486] 07 p1090 N84-17088
The time development of a blast wave with shock heated electrons
[NASA-CR-175364] 08 p1156 N84-17529
Type II successful supernovae, the anatomy of shocks: Neutrino emission and the adiabatic index
[DE84-002858] 11 p1757 N84-21472
Activities report of the Institute of Astronomy 13 p2071 N84-23422
An atlas of UV spectra of supernovae
[ESA-SP-1046] 15 p2424 N84-25563
On supernovae as a source of interstellar dust: The current observational picture 16 p2569 N84-26488
On supernovae as a source of interstellar dust. The current observational picture 18 p2947 N84-28686
Supernovae — IUE observations 24 p3970 N84-35138
The 22 GHz continuum and spectral index maps of the galactic center region
[INPE-3275-PRE/598] 24 p3967 N84-35239

SUPERPLASTICITY
Optimum microstructures for SPF (superplastic forming) using hydrovac
[AD-A130944] 01 p0044 N84-10280
Deformation and fatigue of aircraft structural alloys
[AD-A133947] 05 p0654 N84-14297
Mechanical behavior of superplastically formed sandwich panels 10 p1453 N84-19490
Superplastic bonding and ultrahigh carbon steel laminated composites
[AD-A137807] 11 p1627 N84-20651
Superplastic transformation and diffusion welding of titanium alloys 14 p2094 N84-23562
Influence of microstructure, stress-state and environment on superplastic flow and fracture in glass-ceramics 17 p2577 N84-27050
SPF/DB primary structure for supersonic aircraft (T-38 horizontal stabilizer)
[NASA-CR-163114] 18 p2813 N84-27860
Superplasticity in thermomechanically processed high magnesium aluminum-magnesium alloys
[AD-A143164] 21 p3366 N84-31356
Discussion of superplasticity effect 24 p3876 N84-34563

SUPERPOSITION (MATHEMATICS)
Evaluation of the significance of the data on the 160.01 min oscillations of the Sun treated by the superposed epoch analysis 09 p1408 N84-19203

SUPERSONIC AIRCRAFT
NT CONCORDE AIRCRAFT
NT F-4 AIRCRAFT
NT F-8 AIRCRAFT
NT F-14 AIRCRAFT
NT F-15 AIRCRAFT
NT F-16 AIRCRAFT
NT F-106 AIRCRAFT
NT F-111 AIRCRAFT
NT JAGUAR AIRCRAFT
NT MIG AIRCRAFT
NT MIRAGE AIRCRAFT
NT SUPERSONIC TRANSPORTS
NT T-38 AIRCRAFT
Pilot human factors in stall/spin accidents of supersonic fighter aircraft 06 p0779 N84-15102
Control definition study for advanced vehicles
[NASA-CR-3738] 07 p0958 N84-16212
Supersonic STOVL ejector aircraft from a propulsion point of view
[NASA-TM-83641] 15 p2261 N84-24581
Calculation of vertical and ramp-assisted takeoffs for supersonic cruise fighters
[NASA-TM-85818] 17 p2600 N84-26668
Effect of fuselage upwash on the supersonic longitudinal aerodynamic characteristics of 2 fighter configurations
[NASA-TP-2330] 18 p2785 N84-27676
Study of aerodynamic technology for single-cruise-engine V/STOL fighter/attack aircraft
[NASA-CR-166270] 19 p2956 N84-28738
Study of aerodynamic technology for single-cruise-engine V/STOL fighter/attack aircraft
[NASA-CR-166269] 19 p2961 N84-28757
Response of a plaster-wood room subjected to simulated sonic booms
[UTIAS-276] 21 p3421 N84-31701
Supersonic jet shock noise reduction
[NASA-TM-83799] 24 p3961 N84-35065

SUPERSONIC AIRFOILS
Delta wings with shock-free cross flow
[NASA-CR-172297] 10 p1419 N84-19282
Wing planform effects at supersonic speeds for an advanced fighter configuration
[NASA-TP-2289] 11 p1601 N84-20486

SUPERSONIC BOUNDARY LAYERS
Pressure and heating-rate distributions on a corrugated surface in a supersonic turbulent boundary layer
[NASA-TP-1024] 01 p0077 N84-10504

SUPERSONIC COMBUSTION
A study of air breathing rockets. 3: Supersonic mode combustors
[NAL-TR-756] 04 p0489 N84-13213

SUPERSONIC COMBUSTION RAMJET ENGINES
Preliminary scramjet design for hypersonic airbreathing missile application
[NASA-CR-3742] 04 p0486 N84-13195
Enhancement of the CAVE computer code — aerodynamic heating package for nose cones and scramjet engine sidewalls
[NASA-CR-3731] 04 p0532 N84-13501
A comprehensive model to determine the effects of temperature and species fluctuations on reaction rates in turbulent reaction flows
[NASA-CR-175365] 08 p1155 N84-17520
Flowfield measurements in a model scramjet combustion using laser-induced iodine fluorescence
[NASA-CR-175399] 10 p1419 N84-19283
Turbulent transport models for scramjet flowfields
[NASA-CR-172264] 10 p1491 N84-19747
Interaction of two-dimensional transverse jet with a supersonic mainstream
[NASA-CR-175448] 11 p1602 N84-20492
Numerical predictions of residence times behind a rearward facing step with transverse injection 13 p1951 N84-22687

SUPERSONIC COMPRESSORS
Unsteady interactions in supersonic compressor stages 16 p2490 N84-25672

SUPERSONIC CRUISE AIRCRAFT RESEARCH
Investigation of installation effects on twin-engine convergent-divergent nozzles
[NASA-TP-2205] 04 p0479 N84-13152
Inlet flow field investigation. Part 1: Transonic flow field survey
[NASA-CR-172239] 06 p0782 N84-15123
Development and analysis of a STOL supersonic cruise fighter concept
[NASA-TM-85777] 13 p1930 N84-22553
Application of near-term technology to a Mach 2.0 variable-sweep-wing, supersonic-cruise executive jet
[NASA-CR-172321] 14 p2104 N84-23621

SUPERSONIC DIFFUSERS
Variable area ejector-diffuser model tests
[AD-A134843] 08 p1105 N84-17182
Design and testing of scaled ejector-diffusers for jet engine test facility applications
[AD-A136745] 10 p1432 N84-19364

SUPERSONIC DRAG
Wave drag of elongated astroid bodies at moderate supersonic flight velocities 13 p1972 N84-22797

SUPERSONIC FLIGHT
Flight test and analyses of the B-1 structural mode control system at supersonic flight conditions
[NASA-CR-170405] 04 p0487 N84-13197
A wing concept for supersonic maneuvering
[NASA-CR-3763] 06 p0781 N84-15115
AQM-81A fireball
[AD-A135895] 09 p1255 N84-18184
Air force technical objective document fiscal year 1985
[AD-A136724] 10 p1598 N84-20471
Wave drag of elongated astroid bodies at moderate supersonic flight velocities 13 p1972 N84-22797
Bibliography of Supersonic Cruise Research (SCR) program from 1960 to 1983
[NASA-RP-1117] 18 p2785 N84-27674

SUPERSONIC FLOW
Numerical analysis of dusty supersonic flow past blunt axisymmetric bodies
[UTIAS-267] 01 p0003 N84-10023
Effect of thrust vectoring and wing maneuver devices on transonic aeropropulsive characteristics of a supersonic fighter
[NASA-TP-2119] 01 p0004 N84-10025
A generalized solution technique for the parabolized Navier-Stokes equations 02 p0173 N84-11137
Wind tunnel wall interference
[AD-A131396] 02 p0175 N84-11149
An analytical method to calculate the flow field about blunt bodies of revolution at incidence in supersonic free stream flow
[CSIR-NIAST-82/72] 04 p0479 N84-13156
Microwave discharge in a supersonic flow for the excitation of a gas dynamic CO laser
[DFVLR-FB-83-21] 07 p1011 N84-16558
Two-dimensional supersonic expansion flows on walls with nonequilibrium condensation 08 p1096 N84-17125
Prediction of vortex shedding from circular and noncircular bodies in supersonic flow
[NASA-CR-3754] 08 p1096 N84-17129
The COREL and W12SC3 computer programs for supersonic wing design and analysis
[NASA-CR-3676] 08 p1096 N84-17130
Photodiagnostics of turbulent flows using laser-induced fluorescence
[NASA-CR-166546] 08 p1155 N84-17519

Studies and vorticity effects by the Euler equations with emphasis on supersonic flow fields
[AD-A135118] 08 p1157 N84-17535
Implicit numerical solution for a normal shock
[AD-A135855] 09 p1314 N84-18590
The hydrodynamic stability of a supersonic laminar boundary layer over a rough wall
[AD-A137058] 10 p1422 N84-19299
Three-dimensional flow over a conical afterbody containing a centered propulsive jet: A numerical simulation 10 p1560 N84-20222
Inlet flowfield investigation. Part 2: Computation of the flow about a supercruise forebody at supersonic speeds
[NASA-CR-172315] 12 p1766 N84-21516
Three-dimensional, two-phase supersonic nozzle flows
[AD-A136849] 13 p1926 N84-22538
Numerical predictions of residence times behind a rearward facing step with transverse injection 13 p1951 N84-22667
Combustion performance of a vitiated air heater for a freejet test facility 13 p1952 N84-22691
An analysis of shock coalescence including three-dimensional effects with application to sonic boom extrapolation
[NASA-TP-2214] 13 p1988 N84-22906
High speed inviscid compressible flow by the finite element method
[NASA-CR-173556] 15 p2332 N84-25002
Optical measurements of fluctuating temperatures in a supersonic turbulent flow using one- and two-photon, laser-induced fluorescence
[NASA-TM-85849] 15 p2336 N84-25020
La Recherche Aerospatiale, Bimonthly Bulletin, number 1983-S, 216/September - October
[ESA-TT-836] 15 p2402 N84-25419
Iterative solution of the three-dimensional nonlinear potential equation of the gas dynamcis for ultrasonic flows 16 p2541 N84-26310
Patterns of magnetic field merging sites on the magnetopause 16 p2572 N84-26511
Design study for a low density wind tunnel
[INPE-3072-TDL/160] 17 p2610 N84-26707
Mixed boundary-value problems pertaining to profile of supersonic nozzles and channels 17 p2645 N84-26919
Effect of injection into boundary layer on flow of supersonic stream past oscillating cone 17 p2646 N84-26925
Supersonic three-dimensional jet flow in channel 17 p2646 N84-26926
Effect of elastically suspended masses on stability of elastic panels in supersonic stream 17 p2650 N84-26949
Numerical simulation of shock/turbulent boundary layer interactions over 2-D compression corners 17 p2666 N84-27000
PAN AIR: A computer program for predicting subsonic or supersonic linear potential flows about arbitrary configurations using a higher order panel method. Volume 1: Theory document (version 1.1)
[NASA-CR-3251] 18 p2788 N84-27697
A mixed explicit-implicit antidiffusive method of Navier-Stokes equations for supersonic and hypersonic separated flows
[AD-A141010] 18 p2837 N84-28005
Random-choice solutions for two-dimensional and axisymmetric supersonic flows 20 p3166 N84-30115
Visualization for a free jet by a laser induced fluorescence method and its structure 20 p3169 N84-30120
Viscous computation of a space shuttle flow field
[NASA-TM-85977] 20 p3183 N84-30225
Dust particles in high speed flows: Calculations of small particle reentry hydrodynamics
[DE84-010996] 20 p3186 N84-30245
Ion reflection, gyration, and dissipation at supercritical shocks
[DE84-011353] 20 p3303 N84-30980
Supersonic nonsteady flow past flat and axisymmetric pointed bodies 21 p3485 N84-32088
Aerodynamic heating computations for projectiles. Volume 2: Swept wing calculations using the planar version of the ABRES shape change code (PLNRASCC)
[AD-A143253] 22 p3532 N84-32360
Supersonic flows around a circular cone with or without blowing on the surface
[AD-A143258] 22 p3532 N84-32362
Simulation of the Kelvin-Helmholtz instability of a supersonic slip surface with the Piecewise-Parabolic Method (PPM)
[DE84-013219] 22 p3595 N84-32768
Effect of physical properties on break-up and atomization of liquid jets in a supersonic crossflow 24 p3851 N84-34427

SUPERSONIC FLOW INLETS
U SUPERSONIC INLETS

SUPERSONIC FLUTTER
Helicopter blade tips
[NASA-TM-77370] 06 p0782 N84-15119
La Recherche Aerospatiale, Bimonthly Bulletin, no. 1984-1, 218/ January - February
[ESA-TT-858] 20 p3125 N84-29850
Subsonic/transonic stall flutter investigation of a rotating rig
[NASA-CR-174625] 23 p3695 N84-33417

SUPERSONIC INLETS
Three-dimensional viscous design methodology for advanced technology aircraft supersonic inlet systems
[NASA-TM-83558] 04 p0485 N84-13190
Air intakes for a probative missile of rocket ramjet
[NASA-TM-77407] 09 p1251 N84-18170

SUPERSONIC JET FLOW
The CARS spectroscopy in a supersonic jet 06 p0800 N84-15216
A study of accretion in compact sources: Disk precession and jet helicity 06 p0929 N84-16038
Interaction of two-dimensional transverse jet with a supersonic mainstream
[NASA-CR-175446] 11 p1602 N84-20492
The instability of axisymmetric supersonic jet impinging on flat plate
[BU-287] 15 p2256 N84-24548
Analytical description of hypersonic gas jet discharged into motionless medium or into supersonic companion stream 17 p2644 N84-26914
Interaction of jet discharged from container and opposing supersonic stream of rarefied gas 17 p2644 N84-26917
Supersonic molecular jet studies of Toluene-Helium and Toluene-Methane clusters
[AD-A141379] 19 p2988 N84-28931
Supersonic jet-cavity interaction pulsation 21 p3485 N84-32089
Dynamics of large molecules and molecular clusters
[AD-A143386] 22 p3560 N84-32542

SUPERSONIC NOZZLES
Acoustic damping by microcondensate — in supersonic nozzle 07 p1070 N84-16952
Experimental investigation of shock-cell noise reduction for dual-stream nozzles in simulated flight comprehensive data report. Volume 1: Test nozzles and acoustic data
[NASA-CR-168336-VOL-1] 14 p2220 N84-24323
Experimental investigation of shock-cell noise reduction for dual-stream nozzles in simulated flight comprehensive data report. Volume 2: Laser velocimeter data, static pressures and shadowgraph photos
[NASA-CR-168336-VOL-2] 14 p2220 N84-24324
Design study for a low density wind tunnel
[INPE-3072-TDL/160] 17 p2610 N84-26707

SUPERSONIC SPEEDS
Navier-Stokes computational study of the influence of shell geometry on the Magnus effect at supersonic speeds
[AD-A130630] 01 p0079 N84-10516
Noise of the SR-6 propeller model at 2 deg and 4 deg angles of attack
[NASA-TM-83515] 07 p1069 N84-16946
Aerodynamic characteristics of a Sparrow 3 missile model in the flow field of a generalized parent body at Mach 2.86
[NASA-TM-85713] 08 p1097 N84-17134
Exact solution to problem of interaction between wedge moving at supersonic velocity and interface of two gaseous media 13 p1971 N84-22790
Aerodynamics of sounding rockets at supersonic speeds 16 p2455 N84-25743

SUPERSONIC TRANSPORTS
NT CONCORDE AIRCRAFT
Random-choice solutions for weak spherical shock-wave transitions of n-waves in air with vibrational excitation
[UTIAS-253] 01 p0077 N84-10502
Bibliography of Supersonic Cruise Research (SCR) program from 1980 to 1983
[NASA-RP-1117] 18 p2785 N84-27674
Integrated Application of Active Controls (IAAC) technology to an advanced subsonic transport project: Current and advanced act control system definition study, volume 1
[NASA-CR-165631-VOL-1] 19 p2967 N84-28802

SUPERSONIC TURBINES
Two dimensional condensing flow in transonic turbine cascades 06 p0841 N84-15484

SUPERSONIC WIND TUNNELS
Laminarization of a boundary layer in a supersonic nozzle by cooling of the surface
[NASA-TM-77341] 05 p0626 N84-14119
Half-model testing in the NLR high speed wind tunnel HST: Its technique and application 14 p2098 N84-23588
The wind tunnel S2MA of the aerodynamic testing plant in Modane-Avrieux, France
[ONERA-NT-1983-5] 16 p2454 N84-25735
Space Shuttle AFRSI CMS pod environment test using model 81-0 test fixture in the Ames Research Center 9x7-foot supersonic wind tunnel (OS-314A/B/C)
[NASA-CR-167689] 24 p3860 N84-34464

SUPINE POSITION
Factors affecting human tolerance to sustained acceleration
[AD-A136520] 13 p2021 N84-23101

SUPPLEMENTS
Bibliography of in-house and contract reports, supplement 12
[AD-A141778] 19 p3041 N84-29298

SUPPLYING
Satellite Services Catalog: Tools and equipment
[NASA-TM-85627] 13 p1937 N84-22597
Lead 19 p2992 N84-26959
Fluorspar 19 p3053 N84-29375
The nature of the critical and strategic materials problem 23 p3702 N84-33466
Factors affecting the supply of strategic raw materials with particular reference to the aerospace manufacturing industry 23 p3702 N84-33467

SUPPORT INTERFERENCE
Support interference of wind tunnel models: A selective annotated bibliography
[NASA-TM-81909-SUPPL] 17 p2610 N84-26708

SUPPORT SYSTEMS
NT CLOSED ECOLOGICAL SYSTEMS
NT EMERGENCY LIFE SUSTAINING SYSTEMS
NT GROUND SUPPORT SYSTEMS
NT LIFE SUPPORT SYSTEMS
NT PORTABLE LIFE SUPPORT SYSTEMS
Satellite Services Catalog: Tools and equipment
[NASA-TM-85627] 13 p1937 N84-22597
Program Manager's Support System (PMSS): An update
[AD-P002825] 13 p2062 N84-23370
Nonlinear vibrations of a rubber support system constrained by a fixed surface 15 p2313 N84-24878
Federal plans for cooperative backup among operational processing centers
[PB84-174796] 16 p2531 N84-26253

SUPPORTS
NT PYLONS
NT SADDLES (SUPPORTS)
Investigation of the strength of a flycatcher wheel suspension
[IWECO-5075410-83-01] 12 p1827 N84-21912
Practical solutions to simulation difficulties in subscale wind tunnel tests 14 p2097 N84-23581
Structure-borne sound transfer functions of a Dunlop Super "D" flexible mounting
[TPD-408.870/1] 17 p2763 N84-27552
Ring-type support concept for twisted coils (finite element simulation) — stellarators
[IPP-2/271] 20 p3200 N84-30327
Temperature controlled adjusting mechanism
[AD-D011077] 21 p3406 N84-31601
Double arch mirror study. Part 1: Preliminary engineering report
[NASA-CR-166589-PT-1] 21 p3412 N84-31634
Retractable tie-down device
[AD-D011079] 21 p3413 N84-31643
Structural analysis of the support system for a large compressor driven by a synchronous electric motor 22 p3610 N84-32873
Nonlinear analysis of a bolted marine riser connector using NASTRAN substructuring 22 p3610 N84-32875
The development of methods to predict both the dynamic and the pseudo-static response of secondary structures subjected to seismic excitations
[DE84-010284] 22 p3612 N84-32884
Mounting arrangement for an inertial measurement unit
[AD-D011148] 23 p3750 N84-33770
Stable mirror mount
[DE84-014250] 23 p3755 N84-33804
Flexural support member having a high ratio of lateral-to-axial stiffness
[DE84-011104] 23 p3761 N84-33839
Model mount system for testing flutter
[NASA-CASE-LAR-12950-1] 24 p3856 N84-34448

SUPPRESSION
U RETARDING

SUPPRESSORS
NT ECHO SUPPRESSORS
Parametric excitation and suppression of convective plasma instabilities in the high latitude F-region ionosphere
[AD-A130652] 01 p0105 N84-10682

Development and flight test of an active flutter suppression system for the F-4F with stores. Part 3. Flight demonstration of the active flutter suppression system
[AD-A131972] 03 p0337 N84-12191
Processing techniques for intelligibility improvement to speech with co-channel interference
[AD-A135702] 09 p1302 N84-18508
Active suppression of aeroelastic instabilities for forward swept wings
[AD-A141739] 19 p2964 N84-28783
Axial-conductances angular filter investigation
[AD-A142802] 21 p3386 N84-31487
Electronic cancelling of acoustic traveling waves
[AD-D011153] 23 p3735 N84-33667

SURFACE ACOUSTIC WAVE DEVICES
Surface acoustic wave/silicon monolithic sensor/processor
[NASA-CR-174541] 01 p0056 N84-10366
Etched cavity SAW (Surface Acoustic Wave) resonator elements for multipole filter applications
[AD-A131002] 02 p0288 N84-11886
Semiconductor surface characterization using transverse acoustoelectric voltage versus voltage measurements
[AD-A131347] 02 p0298 N84-11955
Derated application of parts for (Electronic System Division) systems development
[AD-A133880] 05 p0674 N84-14429
Rivista Tecnica Selenia, volume 8, number 3, 1983
06 p0906 N84-15887
A radar signal processor implemented with surface acoustic waves devices 06 p0907 N84-15889
Analysis and acoustooptical measurements of bulk and surface acoustic wave fields
[NASA-CR-173271] 07 p1069 N84-16945
Reliability modeling of critical electronic devices
[AD-A135705] 09 p1328 N84-18669
Optical processing in radon space
[AD-A137033] 10 p1579 N84-20343
Low temperature quartz crystal oscillator fast warm-up SAW oscillator
[AD-A138024] 12 p1811 N84-21806
Single circuit board implementation of a Digitally Compensated SAW Oscillator (DCSO)
[AD-A138313] 12 p1812 N84-21812
The Record of Electrical and Communication Engineering Conversazione Tohoku University, volume 52, no. 4
[ISSN-0385-7719] 13 p2039 N84-23226
Surface acoustic wave resonators in layered substrates with large electromechanical coupling coefficient
13 p2039 N84-23230
Development of new electro-optic and acousto-optic materials
[AD-A139946] 15 p2408 N84-25453
Peculiarities in determining small contents of atmospheric moisture by surface radio thermal sounding methods 17 p2707 N84-27241
Poly(ethylene maleate) - cyclopentadiene: A model reactive polymer-vapor system for evaluation of a SAW (Surface Acoustic Wave) microsensor
[AD-A141531] 19 p2999 N84-29001
Adaptive spread spectrum receiver using acoustic surface wave technology
[AD-A142129] 19 p3007 N84-29060
Mechanism of operation and design considerations for surface acoustic wave device vapor sensors
[AD-A141537] 19 p3027 N84-29195
Single crystal growth of ferroelectric tungsten bronze compositions for SAW applications
[AD-A141741] 19 p3110 N84-29763
Propagation loss in electrostatically variable SAW delay lines
[AD-A142433] 20 p3178 N84-30183
Alternating acoustoelectric current generated by interaction of two waves in acoustic microwaveguide
21 p3380 N84-31449
Non-destructive testing of semiconductors using surface acoustic wave
[AD-A143559] 22 p3664 N84-33228
Monolithic SAW oscillators on silicon
[AD-A143664] 23 p3741 N84-33716

SURFACE COOLING
Laminarization of a boundary layer in a supersonic nozzle by cooling of the surface
[NASA-TM-77341] 05 p0626 N84-14119
Solidification of highly undercooled liquid droplets
[AD-A143892] 23 p3714 N84-33543

SURFACE CRACKS
Semielliptical cracks along holes in plates and lugs
[AD-A130786] 01 p0096 N84-10622
Propagation of crazing in viscoelastic media
[NASA-CR-173244] 07 p1015 N84-16583
Surface cracks in a plate of finite width under tension or bending
[NASA-CR-172309] 10 p1516 N84-19926
Transition of corner cracks at holes into through-the-thickness cracks
[AD-A136922] 10 p1517 N84-19933
Interpolation between calculated stress intensity factors of semi and quarter elliptical cracks
[VTH-LR-368] 10 p1518 N84-19939
A review study of nondestructive test techniques for residual stresses in aircraft transparencies
[AD-A138930] 13 p1930 N84-22555
Some crazing experiments on As-cast acrylic to MIL-P-8184
[AD-P003196] 17 p2591 N84-26809
An improved acrylic sheet material with enhanced craze resistance
[AD-P003203] 17 p2592 N84-26816
Calculation of crack behaviour on exposure to thermal shock
[BLL-RISLEY-TR-4941-(9091.9F)]
20 p3200 N84-30326
The effect of injection molding processing parameters on the environmental stress cracking resistance of polycarbonate moldings
[MRL-R-924] 20 p3201 N84-30332
Evaluation of the effect of crack closure on fatigue crack growth of simulated short cracks
[NASA-TM-83778] 21 p3365 N84-31348

SURFACE DEFECTS
Effect of contact damage on the strength of ceramic materials
[AD-A133746] 05 p0658 N84-14327
Ultrasonic billet testing equipment for surface defects
[BMFT-FB-T-83-192] 07 p1014 N84-16576
Edge crack growth of thermally aged graphite/polyimide composites
[NASA-TM-85763] 12 p1789 N84-21667
Measuring roughness of ultrasmooth surfaces by reflectometric method 13 p1974 N84-22807
Status of understanding for bearing materials
15 p2342 N84-25060
Visual perception through windscreens: Effects of minor occlusions and haze on operator performance
[AD-P003223] 17 p2596 N84-26636
Effects of surface flaws on impact resistance of uncoated polycarbonate
[AD-A141364] 19 p2998 N84-28998
Automated detection of internal and surface defects in moving strip
[BMFT-FB-T-84-079] 19 p3033 N84-29239
HgCdTe surface and defect study program
[AD-A142342] 20 p3308 N84-31010
Application of measurements of the propagation velocity of ultrasonic Rayleigh waves to surface inspection of materials
[CETIM-15-H-417] 21 p3416 N84-31662

SURFACE DIFFUSION
Nickel diffusion along single inter-phase boundaries
[BLL-M-35109-(5828.4)] 01 p0040 N84-10254
Chemical bonding, interdiffusion and electronic structure at InP, GaAs, and si-metal interfaces
[AD-A141809] 19 p2988 N84-28936

SURFACE EFFECT SHIPS
Comparison of satellite and in situ data
12 p1835 N84-21961
Methodology for interpretation of SST retrievals using the AVHRR split window algorithm
[NASA-TM-85100] 24 p3934 N84-34905

SURFACE ENERGY
The influence of surface topography on polymer friction 14 p2153 N84-23899
A fundamental approach to the sticking of insect residues to aircraft wings
[NASA-CR-173721] 18 p2791 N84-27717
Fluorinated polyurethanes
[AD-D011066] 19 p3000 N84-29011
Interfacial interaction and adhesion in composite materials 20 p3144 N84-29951

SURFACE FINISHING
Stress corrosion resistance of Z 6 CN 18-9 steel: Influence of surface treatment (shot peening, polishing)
[BLL-RISLEY-TR-4777-(9091.9F)]
01 p0041 N84-10265
Improved corrosion resistance of fine-grained 304 stainless steel in H20-CO-CO2-N2 atmospheres
[DE83-013755] 01 p0046 N84-10295
Poor quality aircraft exterior surfaces cause greater fuel expenditures 02 p0167 N84-11095
Raising the surface damage threshold of neutral solution processed BK-7 by pulse laser irradiation
[DE83-012660] 02 p0225 N84-11477
Y03: Prequalification of surface treatment. Measurement of laser reflecting power — Earth-Moon telemetry
[ESA-TT-791] 03 p0382 N84-12490
Fabrication of machined optics for precision applications
[DE83-015720] 03 p0442 N84-12900
Oxidation of Inconel alloy MA754 at low oxidation potential
[DE83-017191] 04 p0501 N84-13298
Methods in competition with electroplating
[BLL-OA-TRANS-3037-(6196.3)]
06 p0800 N84-15213
A method of economical gear finishing of surface hardened gears 07 p0963 N84-16370
Characteristics of grindability of P/M high speed steel: Influence of peripheral wheel speed on wheel wear and surface quality 07 p0964 N84-16371
Electrodes for solid state devices
[NASA-CASE-NPO-15161-1] 07 p0996 N84-16456
Study of the lubrication mechanism of thin film lubricated concentrated steel contacts. The influence of pre-treatment of the steel on the load carrying capacity
[AD-A135087] 08 p1166 N84-17593
Effect of amine surface treatment on the adhesion of a polyurethane to the surface
[AD-A135591] 09 p1288 N84-18406
The manufacture and finishing of aluminium extrusion dies 09 p1293 N84-18447
Advanced finishing methods for spiral bevel and hypoid gears 09 p1293 N84-18451
Proceedings of a Symposium on Laser Induced Damage in Optical Materials: 1981
[PB84-127869] 09 p1324 N84-18649
Precision machining application and technology: An overview and perspective
[AD-A135988] 09 p1390 N84-19075
Advanced cleaning by mass finishing
[DE84-004850] 10 p1472 N84-19612
The AXAF technology program: The optical flats tests
[NASA-TM-82570] 10 p1578 N84-20341
The effects of substrate surface treatments on the defect incorporation in hydride VPE grown InGaAs films
[AD-A137488] 10 p1588 N84-20406
Preparation and properties of polyurethane and polyurethaneurea elastomers from methylene bis(4-cyclohexylisocyanate)
[AD-A137645] 11 p1637 N84-20704
Surface modification by physical vapour deposition
[AD-A137844] 11 p1637 N84-20706
Chemical vapour deposition coating of hard metals with special reference to boron and boron compounds
[BLL-RISLEY-TRANS-4877] 12 p1795 N84-21705
Applying robotic technology to the solid film lubricant burnishing operation
[DE84-007113] 12 p1823 N84-21885
Infrared optics: Holographic and surface relief devices
[BAE-BT-11393] 13 p2042 N84-23249
Role of abrasion in the optical polishing of metals and glass
[DE84-005737] 13 p2043 N84-23259
Novolac as stain protective film during optical glass fabrication
[DE84-005735] 13 p2044 N84-23260
Laser technology: Material for separating, joining and surface treating
[RKW-836] 16 p2497 N84-26019
Multitechnique studies on fretting fatigue: Influence of surface treatment
[AD-A140812] 17 p2624 N84-26796
New material, process spins off from Volvo LCP 2000 program 17 p2640 N84-26891
Improvement of surface planing with diamond tool
17 p2641 N84-26897
Surfaces, Coatings and Protection — for nuclear reactor components
[ND-R-751(S)] 18 p2931 N84-28583
Chemical vapor deposition and reactive diffusion of boron on beryllium
[AD-D011043] 19 p2995 N84-28976
Study of mechano-chemical machining of ceramics and the effect on thin film behavior
[AD-A142542] 20 p3162 N84-30080
On orbit surfacing of thermal control surfaces
[NASA-CR-171121] 21 p3352 N84-31266
Influence of choice of steel on forging
[CETIM-1.3K.32.1] 21 p3416 N84-31663
Fiber optic light guides based on polymer coated multicomponent glasses 21 p3487 N84-32100
Optimizing tools for generating spherical surfaces and polishing powders in optical production technology
[BMFT-FB-T-84-094] 21 p3499 N84-32178
Features of behaviour of gas bubbles in molten oxide films during enamelling
[BLL-M-35872-(5828.4)] 22 p3553 N84-32496
Rigid closed-cell polyimide foams for aircraft applications and foam-in-place technology
[NASA-CR-171805] 22 p3559 N84-32535
Practical implications of the use of aluminide coatings for the corrosion protection of superalloys in gas turbines 23 p3703 N84-33476
Coatings for fuel economy or materials substitution
23 p3704 N84-33477

Costing developments to restrict strategic materials usage 23 p3704 N84-33483
Laser beam technology promoting high speed and selective plating processes
[AD-A143715] 23 p3754 N84-33797
Superconducting resonators — niobium
[BMFT-FB-T-84-119] 23 p3831 N84-34303
Hardening alloy surfaces by laser irradiation 24 p3869 N84-34518

SURFACE GEOMETRY
Determining stresses in the presence of nonlinearities in interplanar spacing versus Sin squared Psi
[AD-A132365] 04 p0612 N84-14041
Computer-Aided Structural Engineering (CASE) project. Reference manual: Computer graphics program for generation of engineering geometry (SKETCH)
[AD-A133493] 06 p0896 N84-15828
Multiparameter maximal functions along dilation-invariant hypersurfaces
[CTH-MATH-1984-11] 23 p3819 N84-34215
On Chow groups of conic bundle surfaces
[CTH-MATH-1984-12] 23 p3820 N84-34228

SURFACE INTERACTIONS
U SURFACE REACTIONS

SURFACE IONIZATION
Experimental studies of secondary ion emission from well-characterized surfaces
[AD-A133186] 06 p0914 N84-15943
Impact ionization effects on Pioneer Venus Orbiter 06 p1118 N84-17270
Design and fabrication of a surface conversion negative ion source and an 80 keV pre-accelerator
[DE84-006753] 13 p2045 N84-23269
Proceedings of the 5th Symposium on applied surface analysis
[AD-A140744] 17 p2768 N84-27576
Impact ionization in semiconductors by microwave field in the presence of an arbitrarily oriented constant magnetic field 18 p2825 N84-27932

SURFACE LAYERS
NT MONOMOLECULAR FILMS
Hydrothermal stability of gamma-aminopropyltriethoxysilane coupling agent on ground silicon powder and E-glass fibers
[AD-A130904] 01 p0037 N84-10234
A critical study of the role of the surface oxide layer in titanium bonding
[NASA-CR-174531] 01 p0041 N84-10266
Radar resonance reflection from sets of plane dielectric layers
[AD-A128680] 01 p0062 N84-10406
Microwave interaction with thin multiple conductive coatings
[AD-A131091] 01 p0067 N84-10435
Analysis of nonclassical friction laws for contact problems in elastostatics 02 p0230 N84-11511
A study of the surface layer on an extremely rough surface
[INPE-2829-PRE/361] 02 p0248 N84-11621
A vertical wind angle standard deviation calculation method for the unstable surface boundary layer
[AD-A132362] 04 p0587 N84-13739
Sputtering of multicomponent materials 06 p0816 N84-15312
Depth resolution due to instrumental factors in sputter-assisted depth profiling 06 p0816 N84-15315
Chemical modification of surfaces: The effect of potassium on the chemisorption of molecules on transition metal crystal surfaces
[DE84-008345] 14 p2244 N84-24473
Estimation of melting rate of snow by simple formulae using only air temperature 15 p2353 N84-25121
Surface layer effects on the mechanical behavior of metals
[AD-A142280] 20 p3152 N84-30018
Second harmonic generation at thin film silver electrodes via surface polaritons
[AD-A143597] 23 p3824 N84-34254

SURFACE NAVIGATION
Investigation of the positioning system at Recal-Decca Survey Ltd. (RDS), London
[FOA-C-20476-D8(E2,E3)] 07 p0950 N84-16162
Monitoring of ship routes via satellite
[DFVLR-MITT-83-15] 07 p0963 N84-16240
NAVSTAR GPS simulation and analysis program
[PB84-134402] 10 p1427 N84-19332
Celestial pattern recognition allowing autonomous earth-surface or deep-space positioning
[AD-A138115] 12 p1768 N84-21529
An evaluation of a Honda Electro Gyro-Cator land navigation system
[AD-A138263] 12 p1768 N84-21532
A field evaluation of the Bendix Gyrocompass Navigation System land navigator
[AD-A140368] 16 p2446 N84-25689
A seaborne navigation trial utilising a Differential Omega system
[ERL-0295-TM] 17 p2604 N84-26684
The electronic chart
[AD-A140565] 17 p2604 N84-26686
Error analysis for marine geodetic control using the global positioning system
[AD-A140566] 17 p2605 N84-26687
Differential NAVSTAR GPS (Global Positioning System) design concept for Harbor/Harbor entrance marine navigation
[AD-A141665] 19 p2961 N84-28769
HP-85/Mini-Ranger navigation system
[AD-A142131] 19 p2961 N84-28770
Panama Canal Fog Navigation Study: Candidate system definition
[PB84-180793] 20 p3249 N84-30624
Panama Canal Fog Navigation Study: System requirements statement
[PB84-179811] 20 p3249 N84-30625
Direct measurement of Earth's vertical deflection using global positioning system
[AD-D011099] 22 p3534 N84-32373

SURFACE PRESSURE
U PRESSURE

SURFACE PROPERTIES
NT ADHESION
NT COEFFICIENT OF FRICTION
NT INTERFACIAL TENSION
NT SPECTRAL REFLECTANCE
NT SURFACE CRACKS
NT SURFACE DEFECTS
NT SURFACE ENERGY
NT SURFACE ROUGHNESS
NT SURFACE STABILITY
NT SURFACE TEMPERATURE
NT WALL TEMPERATURE
Catalytic surface effects on space thermal protection system during Earth entry of flights STS-2 through STS-5 01 p0024 N84-10152
A review of nonequilibrium effects and surface catalysis on shuttle heating 01 p0024 N84-10154
Surface modification of some titanate minerals subjected to hydrothermal chemical attack
[AERE-R-10799] 01 p0039 N84-10249
Surface analysis of graphite fiber reinforced polyimide composites
[NASA-TM-85700] 02 p0188 N84-11220
Specific surface measurements of shock-modified powders
[DE83-016230] 02 p0196 N84-11275
Structure-property relationships in ion-implanted ceramics
[DE83-015505] 02 p0202 N84-11313
Rays and modes on concave surfaces
[AD-A131411] 02 p0210 N84-11371
Proceedings of the Workshop on Ion Mixing and Surface Layer Alloying
[AD-A131469] 02 p0289 N84-11895
HgCdTe surface study program
[AD-A132071] 03 p0349 N84-12268
Photothermal displacement spectroscopy of surfaces and thin films
[DE83-015957] 03 p0350 N84-12279
Formation of surface layers during oxidation of a Fe-Mn-Si alloy
[DE83-009495] 03 p0354 N84-12302
Investigation of the Rayleigh critical angle phenomenon for the characterization of surface properties
[AD-A131530] 03 p0360 N84-12340
Novel method for the study of optical properties of surfaces
[DE83-012899] 03 p0441 N84-12895
Surface and interfacial properties of Ga(0.47) In(0.53) As alloys
[AD-A131925] 03 p0451 N84-12970
Physics of ion implantation: Ion-cascade processes and physical state of the implanted solid
[DE83-017152] 03 p0455 N84-12998
Application of surface-physics techniques to the study of electrochemical systems
[DE84-000957] 04 p0494 N84-13245
Reduction of tritium permeation through iron using aluminum-ion implantation
[DE84-000184] 04 p0500 N84-13279
Radiation-induced phosphorus segregation in austenitic and ferritic alloys
[DE84-000903] 04 p0504 N84-13302
Slippery versus slip resistant work surfaces: The background for a regulatory definition
[PB83-243634] 04 p0516 N84-13392
Evaluation of selective solar-absorber surfaces, phase 2
[DE84-000067] 04 p0559 N84-13685
Surface heat flux derived from sodar amplitude and frequency data: A comparison
[DE83-017930] 04 p0584 N84-13717
A survey of underwater-acoustic ray tracing techniques
[PB83-250522] 04 p0596 N84-13931
Surface studies of WO3/Al2O3 and Ni/W/Al2O3 catalysts
[DE84-000930] 05 p0651 N84-14283
Studies of flame spread in an opposed flow over surfaces of solid fuels 05 p0652 N84-14286
Topological reaction rate measurements related to scoffing
[NASA-TM-83486] 05 p0652 N84-14288
Surface embrittlement of ductile polymers: A fracture mechanics approach 05 p0657 N84-14321
Direct determination of surface structures from photoelectron diffraction
[DE84-002572] 05 p0663 N84-14360
Microwave dynamics of quasiparticles and critical fields in superconducting films 05 p0756 N84-14961
The measurement of surface texture and its correlation with function 06 p0814 N84-15299
Surface analysis by particle beams 06 p0814 N84-15301
The unique surface properties of gold 06 p0815 N84-15310
Quantitative sputter profiling at surfaces and interfaces 06 p0816 N84-15314
Diffraction techniques
[AD-A133254] 06 p0914 N84-15944
Technical support for AXAF
[NASA-CR-170950] 06 p0917 N84-15959
Surface analysis in composite bonding
[NASA-CR-175353] 07 p0967 N84-16264
Correlations between surface structure and catalytic reactivity for alkane hydrogenolysis over nickel
[DE84-002610] 07 p0971 N84-16292
Martian surface properties
[NASA-CR-173197] 07 p1091 N84-17091
Structural and electrochemical properties of platinum-titanium laser surface alloys 08 p1129 N84-17346
Modification of alloy surface composition by segregation processes as a means of impurity control in fusion devices
[DE84-003645] 08 p1134 N84-17373
Assessment of the potential of Langmuir-Blodgett films for room temperature IR (infrared) detectors
[AD-A134616] 08 p1161 N84-17561
The possibilities of application of superconductors in electronics
[AD-A136488] 09 p1307 N84-18543
Metal contacts in semiconductors
[AD-A136109] 09 p1396 N84-19120
The research on short backfire antenna
[AD-A137209] 10 p1485 N84-19712
Stability of the FMIT high speed, free surface liquid jet flowing along a curved wall
[DE84-003856] 10 p1494 N84-19767
On the face-shear vibrations of contoured crystal plates 10 p1511 N84-19891
BIMOND: Monotone bivariate interpolation code (preliminary documentation)
[DE84-004159] 10 p1565 N84-20252
Development of a 3-d microscale topography system, phase 1
[AD-A137871] 11 p1633 N84-20677
Development of a 3-d microscale topography system, phase 2
[AD-A137872] 11 p1633 N84-20678
Lubrication of engineering surfaces, phase 2
[DE84-006344] 12 p1822 N84-21878
Atmospheric effects on remote sensing of the Earth's surface 12 p1832 N84-21943
Multidimensional modeling of atmospheric effects and surface heterogeneities on remote sensing 12 p1833 N84-21945
Generation of surface-fitted coordinate grids 12 p1871 N84-22194
An interactive modeling program for the generation of planar polygons for boundary type solids representations of wire frame models 12 p1874 N84-22210
Computer-aided surface representation and design 12 p1875 N84-22218
The computation of mesh configurations for three-dimensional flow analysis 12 p1875 N84-22221
Use of shape-preserving interpolation methods in surface modeling
[DE83-012708] 12 p1895 N84-22343
Physical and chemical investigations on real catalyst surfaces
[BMFT-FB-T-83-273] 13 p1958 N84-22729
Measuring roughness of ultrasmooth surfaces by reflectometric method 13 p1974 N84-22807

Asymptotic models for wave scattering from very rough surfaces 13 p1984 N84-22683
Qualities of SEP ceramic-ceramic Cerasep composites 13 p2039 N84-23225
RF properties of superconducting A-15 compounds [AD-A139067] 13 p2047 N84-23265
Voyager feature-fixed photometry of lapetus 13 p2074 N84-23440
Theoretical aspects of photoclinometric terrain profiling on the Galilean satellites 13 p2074 N84-23441
Geology of Dione 13 p2074 N84-23444
Morphology of fresh craters on Ganymede and the origin of pedestal craters 13 p2078 N84-23466
Tribology in the 80's. Volume 1: Sessions 1 to 4 [NASA-CP-2300-VOL-1] 14 p2152 N84-23891
Status and direction of tribology as a science in the 80's. Understanding and prediction 14 p2152 N84-23892
Importance and definition of materials in tribology. Status of understanding 14 p2152 N84-23893
Microstructures associated with wear 14 p2153 N84-23901
Structures and properties of polymers important to their wear behavior 14 p2154 N84-23902
Examination of frontal development during a dry forward combustion [DE84-008304] 15 p2288 N84-24726
Effects of surface chemistry on hot corrosion life [NASA-CR-174863] 15 p2295 N84-24774
Surface and bulk phase separations in block copolymers and their blends [AD-A140020] 15 p2302 N84-24815
Elastohydrodynamic lubrication of smooth surfaces 15 p2315 N84-24895
Friction in elastohydrodynamic contacts 15 p2316 N84-24897
Surface topography-connections between lubrication and failure initiation 15 p2316 N84-24898
Lubricant rheology in concentrated contacts 15 p2341 N84-25050
Real surface effects in elastohydrodynamic lubrication 15 p2341 N84-25052
The measurement of acoustic emission parameters during hydraulic loading of the Novovorenezh AES reactor vessel VVER-1000 [DRIC-T-6998] 15 p2403 N84-25421
Synthesis of natural textures on 3-d surfaces [AD-A139869] 15 p2407 N84-25452
Materials research for advanced inertial instrumentation. Task 2: Gas bearing material development [AD-A140435] 16 p2446 N84-25690
Microwave detection of surface and volume moisture in building walls and related structures [CISE-2111] 16 p2481 N84-25912
Effects of weathering and lichen cover on the middle infrared spectra of rocks [AD-A140226] 16 p2510 N84-26111
The threshold temperature effect in high-voltage spacecraft charging [AD-P002120] 16 p2524 N84-26206
Structure of silver (100) and (111) single-crystal surfaces obtained by chemical polishing [AD-A140148] 16 p2560 N84-26424
The wiper abrasion and rain erosion resistance of transparent materials and coatings for aircraft glazing [AD-P003227] 17 p2596 N84-26640
Aerodynamics of hovering 17 p2645 N84-26923
Proceedings of the 5th Symposium on applied surface analysis [AD-A140744] 17 p2768 N84-27576
Development of FT-IR attenuated total internal reflection dichroism techniques for structural characterization of polymer surfaces [AD-A140805] 17 p2768 N84-27577
Dependence of properties of Josephson junctions at semiconductor surface on parameters of subsurface layer 18 p2825 N84-27936
Secondary electron emission characteristics of ion-textured copper and high-purity isotropic graphite surfaces [NASA-TP-2342] 19 p2997 N84-28869
Properties of ferrites important to their friction and wear behavior [NASA-TM-83718] 19 p2997 N84-28994
Plasmon device design: Conversion from surface to junction plasmons with grating-couplers 19 p3047 N84-29330
Surface disturbances due to trailing vortices [AD-A142693] 20 p3184 N84-30233
Property screening and evaluation of ceramic turbine materials [AD-A142739] 21 p3343 N84-31210
Infrared ellipsometer method for determination of parameters of thin epitaxial structures with buried layer: Specimens with dull inactive surface 21 p3379 N84-31448
The surface generation using weighted splines [INPE-3160-PRE/534] 21 p3470 N84-31994
Investigation of Bragg reflection of electromagnetic surface waves by diffraction grating 21 p3479 N84-32053
Focusers of obliquely incident laser radiation 21 p3487 N84-32099
Low temperature epitaxial deposition of silicon by plasma enhanced CVD (Chemical Vapor Deposition) [AD-A143208] 22 p3662 N84-33216
Diamond surface: Atomic and electronic structure [DE84-013518] 22 p3665 N84-33234
Optical spectroscopy of disordered materials and X-ray scattering from surfaces 22 p3682 N84-33345
Fracture surface characteristics of notched angleplied graphite/epoxy composites [NASA-TM-83786] 23 p3711 N84-33522
An evaluation of the Boeing wedge test for the assessment of CFRP surface pretreatment [AD-A144050] 23 p3711 N84-33526
Development of hardware and software for automatic optical surface inspection with laser scanners [BMFT-FB-T-84-111] 23 p3755 N84-33805
Surface property modification of silicon [NASA-CR-173952] 23 p3788 N84-34023
Polyphase tectonics of the Oceanus Procellarum area on the Moon 23 p3841 N84-34364
Turbulent boundary layers developing over compliant surfaces [AD-A144268] 24 p3900 N84-34698

SURFACE REACTIONS

Structural anomaly in composite material [BLL-M-35170-(5826.4)] 01 p0030 N84-10187
Resonance fluorescence of a two-level atom near a metal surface [AD-A130277] 01 p0141 N84-10928
HgCdTe surface study program [AD-A132071] 03 p0349 N84-12266
Laser interaction with metallic surfaces [AD-A126269] 03 p0378 N84-12464
Study of vibrational energy transfer at a surface by a time-of-flight method [AD-A131798] 03 p0432 N84-12833
International Conference on Vibrations at Surfaces (3rd) [AD-A131794] 03 p0433 N84-12834
Application of surface-physics techniques to the study of electrochemical systems [DE84-000957] 04 p0494 N84-13245
JANNAF Handbook: Rocket exhaust plume technology. Chapter 6: Spacecraft plume contamination [AD-A131689] 05 p0644 N84-14236
Study of field adsorption using pulsed-laser atom-probe field-ion microscopy [DE84-002280] 05 p0687 N84-14513
Effect of UV illumination on the sublimation of basal surfaces of zinc oxide [AD-A133383] 06 p0801 N84-15222
Proceedings of Symposium on Surface Science and its Industrial Implications [ISBN-0-7988-2417-4] 06 p0814 N84-15298
Etching of defects on crystal surfaces 06 p0814 N84-15300
Secondary ion emission from adsorbate layers on polycrystalline Ni 06 p0815 N84-15306
Oxygen adsorption and initial oxidation of single crystal first row transition metal and alloy surfaces 06 p0816 N84-15316
Kinematics of the structure and morphology during surface reactions between transition metals and molecular hydrogen 06 p0816 N84-15317
Use of scanning electron microscopy in studying surface reactions of metals with hydrogen 06 p0816 N84-15318
Surface segration and diffusion investigations by means of AES 06 p0816 N84-15319
The descaling of 3Cr12 steel 06 p0817 N84-15322
Surface chemistry in the flotation of minerals 06 p0817 N84-15323
Spectroscopic studies on surface reactions between minerals and reagents in flotation systems 06 p0817 N84-15324
Emission of short-wavelength photons from ion-surface charge exchange [AD-A133183] 06 p0914 N84-15942
Interactions of vibrationally excited molecules with solid surfaces [AD-A133449] 06 p0915 N84-15950
Photoenhancement of gas-solid reactions by surface excitation — ultraviolet irradiation [DE84-003106] 07 p0972 N84-16299
Laser-induced molecular dynamics: Rate processes in the gas phase and at solid surfaces [AD-A134426] 07 p1072 N84-16982
Resonance fluorescence and photon trapping of two atoms on a metallic surface [AD-A134512] 07 p1072 N84-16984
Surface topographical changes measured by phase-locked interferometry [NASA-CR-3757] 07 p1074 N84-16984
A photoacoustic study of chemically active systems [AD-A134663] 08 p1125 N84-17311
Studies of silicon refractory metal interfaces: Photoemission study of interface formation and compound nucleation [AD-A135340] 08 p1131 N84-17358
Surface compatibility studies of potassium perchlorate reaction with pyrotechnic fuels [DE84-002829] 08 p1140 N84-17412
Potassium perchlorate reaction with pyrotechnic fuels [DE84-002840] 08 p1140 N84-17413
De-excitation and equipartition in H2-surface collisions [DE84-003008] 08 p1229 N84-18031
C-h and h-h activation in transition metal complexes and on surfaces [AD-A136468] 09 p1279 N84-18350
Laser-induced electron-phonon processes on metal surfaces [AD-A136435] 09 p1321 N84-18632
Laser-induced surface migration via surface plasmons [AD-A136436] 09 p1321 N84-18633
Picosecond laser pulse interactions with metallic and semiconductor surfaces [AD-A135693] 09 p1395 N84-19112
Melting of electrons on corrugated surfaces: Structural and dynamical properties in liquid and solid phases [DE84-004023] 09 p1397 N84-19122
Spectroscopy of surface adsorbed molecules [DE84-005254] 10 p1589 N84-20417
The role of surface generated radicals in catalytic combustion 11 p1613 N84-20555
Mechanical contact induced transformation from the amorphous to the crystalline state in metallic glass [NASA-TM-83583] 11 p1632 N84-20673
Surface ignition and heterogeneous catalysis of hydrocarbon fuels [AD-A138214] 12 p1792 N84-21686
Resonance fluorescence of a two-level atom near a metal surface. 2: Case of a strong driving field [AD-A138275] 12 p1914 N84-22469
Negative-ion formation from surface scattering and the Anderson correlation energy U [AD-A138390] 12 p1914 N84-22473
Infrared emission associated with chemical reactions on Shuttle and SiRTF surfaces [NASA-TM-85875] 12 p1921 N84-22515
Cathode degradation and erosion in high pressure arc discharges [NASA-TM-83638] 13 p1942 N84-22631
Modification of the near surface region metastable phases and ion induced reactions [AD-A138642] 13 p1952 N84-22684
X-ray photoelectron and Auger electron spectroscopic study of the CdTe surface resulting from various surface pretreatments: Correlations of photoelectrochemical and capacitance-potential behavior with surface chemical composition [AD-A138601] 13 p1956 N84-22714
Electron-transfer kinetics of redox centers anchored to metal surfaces: Weak- versus strong-overlap reaction pathways [AD-A139043] 13 p1956 N84-22718
Intramolecular electron transfer at metal surfaces. 2: Comparisons of ligand-bridged CR(3) reduction kinetics at silver versus mercury electrodes [AD-A139047] 13 p1956 N84-22720
Utility of surface reaction entropies for examining reactant-solvent interactions at electrochemical interfaces. Ferricinium-ferrocene attached to platinum electrodes [AD-A139055] 13 p1957 N84-22722
Redox thermodynamics of surface-bound reactants. Illustrative behavior of Cobalt(3)/(2) macrobicyclic cage complexes [AD-A139058] 13 p1957 N84-22723
A method for evaluating the surface concentrations of 2 like-charged ions simultaneously adsorbed at an electrode-solution interface [AD-A139074] 13 p1957 N84-22724
Corrosion control through a better understanding of the metallic substrate/organic coating/interface [AD-A139086] 13 p1961 N84-22739
Measurement of melt line penetration and heat flux during arc spot welding [DE84-002013] 13 p1997 N84-22962
Future direction of research in wear and wear resistant materials. Status of understanding 14 p2153 N84-23900
Charge separation on semiconductor surfaces: Basic aspects [DE84-007214] 14 p2244 N84-24472

Chemical modification of surfaces: The effect of potassium on the chemisorption of molecules on transition metal crystal surfaces
[DE84-006345] 14 p2244 N84-24473
Fuel-resistant coating and binders for porous friction surface pavements: Tests and analyses
[AD-A139865] 15 p2317 N84-24907
Surface chemistry of NiO (100)
[AD-A140233] 16 p2463 N84-25785
Adsorption of hydrocyanic acid on Lewis acid sites of silicon dioxide 17 p2620 N84-26767
Elementary processes in the catalytic combustion of methane (mechanism, intermediates and controlling reactions)
[PB84-181965] 17 p2620 N84-26770
Change in surface of molybdenum trioxide during its evaporation in an inert atmosphere
[BLL-M-35552-(5828.4)] 17 p2621 N84-26773
Computer simulation studies of sputtering from clean tungsten and nitrogen reacted tungsten and molybdenum surfaces
[AD-A140900] 17 p2769 N84-27581
Surface contamination from actinide solutions
[AERE-R-11046] 18 p2816 N84-27879
Theory of laser-induced surface chemistry with applications to microelectronics and heterogeneous catalysis
[AD-A141632] 19 p2989 N84-28938
Investigation of the kinetics of catalyzed combustion of fuel
[AD-A142153] 19 p2989 N84-28939
Poly(ethylene maleate) - cyclopentadiene: A model reactive polymer-vapor system for evaluation of a SAW (Surface Acoustic Wave) microsensor
[AD-A141531] 19 p2999 N84-29001
Novel antistatic packaging materials
[AD-D011069] 19 p3000 N84-29012
An investigation of the existence of a surface water layer on aircraft radomes during simulated flight in heavy precipitation
[NASA-TM-85813] 19 p3003 N84-29035
Semiconductor multipactor device
[AD-D011067] 19 p3017 N84-29125
Attractive interaction between an atom and a surface
[DE84-003204] 19 p3103 N84-29712
The prediction of electrochemical reactivities from contemporary theory: Some comparisons with experiment
[AD-A142408] 20 p3147 N84-29985
Solving corrosion problems with surface analysis
[DE84-006652] 20 p3154 N84-30025
Effects of water-vapor on friction and deformation of polymeric magnetic media in contact with a ceramic oxide
[NASA-TM-83727] 20 p3161 N84-30072
The use of isotopically-enriched carbon probes for erosion deposition measurements in the ASDEX divertor
[DE84-012329] 20 p3307 N84-31006
Computer simulation studies of sputtering and multimer formation from clean and oxygen reacted surfaces of titanium, vanadium and niobium
[AD-A141998] 20 p3308 N84-31009
Solid surface luminescence analysis
[DE84-011254] 20 p3310 N84-31022
Use of surface and thin film analysis techniques to study metal-organic and metal-polymer interaction
[DE84-012542] 21 p3361 N84-31321
Simulations of erosion/corrosion surface chemical reactions with a laser beam
[AD-A143001] 21 p3366 N84-31354
Perspective of the corrosive behavior of lithium and sodium
[DE84-011635] 21 p3367 N84-31362
The wetting of ceramic opaque suspensions on oxidized alloy surfaces
[AD-A142899] 21 p3370 N84-31381
Effect of ion treatment of substrates on initial stage of buildup of metal films 21 p3378 N84-31439
Energy redistribution in diatomic molecules on surfaces
[DE84-011442] 21 p3505 N84-32213
The chemical and physical changes on lubricated surfaces 22 p3602 N84-32820
Negative ion formation due to hydrogen plasma surface interaction
[DE84-012259] 22 p3659 N84-33192
Synergistic effects in plasma surface interactions
[DE84-012346] 22 p3660 N84-33199
Formation of electron-hole pairs in a semiconductor by vibrationally-excited molecules
[AD-A143552] 22 p3664 N84-33226
Nucleation and growth of N- and P-type microcrystals in low-temperature glow-discharge deposited silicon films
[DE84-013122] 22 p3667 N84-33246
Semiconductor surface studies 22 p3681 N84-33338
Chemical reaction dynamics at surfaces 22 p3681 N84-33340
Effect of surface condition and edge preparation on metal fusion during laser welding 23 p3710 N84-33518
The energy dependence and surface morphology of Kapton (trademark) degradation under atomic oxygen bombardment 24 p3863 N84-34484
Atomic beam system for laboratory simulation of upper atmosphere oxygen atom impact on STS surfaces 24 p3863 N84-34485
Short-pulse laser and plasma surface interactions
[AD-A144538] 24 p3965 N84-35109

SURFACE ROUGHNESS
Evaluating and quantifying user perception of pavement serviceability
[PB83-207306] 01 p0058 N84-10375
The interaction of electromagnetic radiation with solid materials
[AD-A130727] 01 p0066 N84-10429
Temperature analysis in lubricated simple sliding rough contacts 01 p0089 N84-10579
Height extrapolation of wind data
[DE83-012974] 01 p0109 N84-10706
Further considerations in models of rough surface scattering
[AD-A130424] 01 p0146 N84-10962
Innovations for improving performance, aerodynamic properties of aircraft 02 p0167 N84-11097
Effects of vegetation canopy on the radar backscattering coefficient
[NASA-TM-85070] 02 p0208 N84-11359
Passive microwave sensing of soil moisture content: Soil bulk density and surface roughness
[E84-10019] 02 p0237 N84-11556
A study of the surface layer on an extremely rough surface
[INPE-2629-PRE/381] 02 p0248 N84-11621
FASTMENU: A set of FORTRAN programs for analyzing surface texture
[PB83-240638] 02 p0276 N84-11804
Transonic airfoil development 03 p0317 N84-12076
A numerical study on the evolution of tornadoes 03 p0409 N84-12679
A variational method for estimating the general circulation in the ocean 04 p0550 N84-13626
The influence of surface roughness on the transfer and wear of polymers
[AD-A133527] 06 p0810 N84-15275
Design and microprocessor-based implementation of digital frequency selective filters for application in terrain roughness identification
[AD-A133459] 06 p0897 N84-15826
Backscattering from inhomogeneous media with irregular boundaries
[AD-A134500] 07 p0993 N84-16440
Data analysis and modeling of arctic sea ice subsurface roughness
[AD-A133349] 07 p1041 N84-16750
Aspects of the grinding process
[CSIR-TRANS-1694] 08 p1140 N84-17416
A new derivation for the rough surface reflection coefficient and for the distribution of sea wave elevations
[AD-A134774] 08 p1145 N84-17453
Numerical simulation of flow over rough surfaces, including effects of shock waves
[AD-A134700] 08 p1159 N84-17545
Theoretical aspects of laser-induced periodic surface structure formation
[AD-A134875] 08 p1164 N84-17581
The hydrodynamic stability of a supersonic laminar boundary layer over a rough wall
[AD-A137056] 10 p1422 N84-19299
Roughness effects on compressor blade performance in cascade at high Reynolds number
[AD-A136896] 10 p1492 N84-19755
An analytical study of the effects of surface roughness on a compressible turbulent boundary layer
[AD-A136911] 10 p1492 N84-19756
Rough surface scattering via the smoothing method
[AD-A137025] 10 p1575 N84-20323
The AXAF technology program: The optical flats tests
[NASA-TM-82570] 10 p1578 N84-20341
Effect of the angle of observation and of surface roughness in the spectral behavior of soils under varied moisture conditions
[INPE-2777-RPE/436] 11 p1671 N84-20904
Lubrication of engineering surfaces, phase 2
[DE84-006344] 12 p1822 N84-21878
Measuring roughness of ultrasmooth surfaces by reflectometric method 13 p1974 N84-22807
Grit blasting a distributed roughness based on a 30% probability of exceedence
[AD-A136779] 13 p1974 N84-22809
Asymptotic models for wave scattering from very rough surfaces 13 p1984 N84-22883
Photometry of icy satellites: How important is multiple scattering in diluting shadows? 13 p2073 N84-23438
Venus: Global distribution of Pioneer-Venus radar roughness and reflectivity and global correlation of altimetry, roughness and reflectivity observations 13 p2077 N84-23461
Future directions of research in adhesion and friction. Status of understanding 14 p2153 N84-23896
The influence of surface topography on polymer friction 14 p2153 N84-23899
Micro-elastohydrodynamic lubrication 15 p2341 N84-25053
Reflection, scattering, and absorption of acoustic waves by rough surfaces
[AD-A140523] 16 p2555 N84-26390
Studies of boundary layer transition and surface roughness effects in hypersonic flow
[AD-A140803] 17 p2601 N84-26670
Structural function of lunar relief according to radar data 17 p2630 N84-26823
Mixing-length formulations for turbulent boundary layers over arbitrarily rough surfaces
[AD-A140560] 17 p2667 N84-27009
A fundamental approach to the sticking of insect residues to aircraft wings
[NASA-CR-173721] 18 p2791 N84-27717
Ion sputter textured graphite electrode plates
[NASA-CASE-LEW-12919-2] 18 p2928 N84-28565
Roughness of surface of Venus from bistatic radar data 19 p2975 N84-28857
Generalized roughness effects on turbulent boundary layer heat transfer. A discrete element predictive approach for turbulent flow over rough surfaces
[AD-A141943] 20 p3183 N84-30227
Optical second-harmonic generation for surface studies
[DE84-010718] 20 p3300 N84-30958
Mechanical interactions of rough surfaces
[DE84-014097] 22 p3605 N84-32841
The role of the reflection coefficient in precision measurement of ultrasonic attenuation
[NASA-TM-83788] 22 p3606 N84-32849
A possibility of avoiding surface roughness due to insects
[NASA-TM-77419] 23 p3690 N84-33384
A discrete element prediction approach for turbulent flow over rough surfaces 23 p3746 N84-33744

SURFACE ROUGHNESS EFFECTS
Some effects of anisotropic roughening on the wetting of metal surfaces
[AERE-R-10976] 01 p0047 N84-10305
Thermal conductance measurements of pressed OFHC copper contacts at liquid helium temperatures
[NASA-TM-85861] 03 p0429 N84-12809
The effects of cylindrical surface modifications on turbulent boundary layers
[AD-A136296] 09 p1314 N84-18585
The probabilistic analysis on the influence of roughness to depth and velocity in open channels
[PREPRINT-792] 12 p1817 N84-21847
Elastohydrodynamic lubrication of rough surfaces 15 p2315 N84-24896
Studies of boundary layer transition and surface roughness effects in hypersonic flow
[AD-A140803] 17 p2601 N84-26670
Utilization of active microwave roughness measurements to improve passive microwave soil moisture estimates over bare soils 23 p3770 N84-33898
The effect of wavelength filtering in rough surface scattering 23 p3778 N84-33957

SURFACE STABILITY
Yield surface for bars including warping restraint
[AD-A131393] 03 p0368 N84-12533
Stability of a rubber half-space
[WTHD-159] 07 p0949 N84-16156

SURFACE TEMPERATURE
NT WALL TEMPERATURE
Microwave interaction with thin multiple conductive coatings
[AD-A131091] 01 p0067 N84-10435
Use of thermal inertia determined by HCMM to predict nocturnal cold prone areas in Florida
[E84-10005] 02 p0235 N84-11546
Maps of favorable areas for tuna fishing in the southwestern Atlantic prepared from satellite data
[INPE-2891-PRE/410] 02 p0239 N84-11565
Three-dimensional model for wind flow and pollutant transport-diffusion over complex terrain 02 p0243 N84-11591

Identifying environmental features for land management decisions
[E84-10016] 03 p0392 N84-12556
The synthesized climatic function map
03 p0400 N84-12617
World-wide sea-surface temperatures
[AD-A131892] 03 p0411 N84-12689
Analytical investigation of meso-scale boundary layer forced by surface temperature variation in a stratified sheared atmosphere 04 p0562 N84-13702
The Heat Capacity Mapping Mission (HCMM) anthology
[E84-10051] 05 p0695 N84-14563
Introduction: Historical perspective on the HCMM program 05 p0695 N84-14564
Principles of thermal remote sensing
05 p0695 N84-14565
LANDSAT 4 band 6 data evaluation
[E84-10054] 05 p0697 N84-14574
A statistical approach for determining subsurface thermal structure from sea surface temperature in the northeast Pacific Ocean
[AD-A132204] 05 p0711 N84-14658
An analysis of aircraft data collected in the Alboran Sea during Donde Va?, 8 - 18 October 1982
[AD-A133995] 06 p0883 N84-15748
Nitriding with a pulsed glow discharge
[BLL-OA-TRANS-3168-(6169.3)]
06 p1128 N84-17335
Metallic glass as a temperature sensor during ion plating
[NASA-TM-83566] 06 p1130 N84-17351
A determination of the constants for a second-order closure turbulence model from geophysical data
[AD-A134626] 06 p1195 N84-17795
Remote thermometry of moving surfaces by laser-induced fluorescence of surface-bonded phosphor
[DE84-004264] 10 p1498 N84-19792
Observations of surface water temperature and salinity in the Eastern part of the East Scheldt from 1921 until present
[KNMI-TR-40(FM)] 10 p1526 N84-19999
Swirls and plumes or application of statistical methods to satellite-derived sea surface temperatures
[AD-A135462] 10 p1528 N84-20010
Using the NOAA-7 AVHRR data to monitor El Chichon aerosol evolution and subsequent sea surface temperatures anomalies 10 p1539 N84-20063
Vertical temperature gradient in troposphere and its relationship to surface temperature according to empirical data 11 p1671 N84-20902
Satellite-Derived Sea Surface Temperature: Workshop 1
[NASA-CR-173450] 12 p1834 N84-21955
Satellite-derived sea surface temperature: Introduction 12 p1834 N84-21956
Analysis techniques 12 p1834 N84-21957
In situ data 12 p1835 N84-21959
Satellite data 12 p1835 N84-21960
Comparison of satellite and in situ data
12 p1835 N84-21961
Conclusions and recommendations
12 p1835 N84-21962
Sea surface temperatures from the Nimbus-7 scanning multichannel microwave radiometer
12 p1835 N84-21963
NOAA satellite-derived operational sea surface temperature products 12 p1835 N84-21965
Measurement of sea surface temperature from HIRS2/MSU 12 p1836 N84-21966
Use of VAS multispectral data for sea surface temperature determination 12 p1836 N84-21967
Pilot Ocean Data System (PODS) file format specifications 12 p1836 N84-21968
Three-way partitioning of sea surface temperature measurement error 12 p1836 N84-21969
Climate sensitivity with a seasonal cycle energy balance model 12 p1856 N84-22091
Design of coupled ocean-atmosphere experiments
12 p1856 N84-22093
GCM sensitivity to 1962 - 1963 equatorial Pacific sea surface temperature anomalies
12 p1858 N84-22106
Temperature, concentration, and size measurements in turbulent reactive flows 13 p1943 N84-22633
Three-color pyrometer for burning particle temperature measurement 13 p1943 N84-22635
CONSERVB: A numerical method to compute soil water content and temperature profiles under a bare surface
[E84-10113] 13 p2005 N84-23006
Comparisons of sea-surface temperature obtained from ship and satellite data
[AD-A138257] 13 p2018 N84-23087
Modeling Io volcanism: Maximum volcanic temperatures, depths of melting and magma composition 13 p2073 N84-23436
Thermal infrared analysis of volcanic surfaces: Mars and Hawaii 13 p2086 N84-23524
Nonadiabatic model wall effects on transonic airfoil performance in a cryogenic wind tunnel
14 p2096 N84-23579
Operational performance characteristics of a multiply-shrouded, angled-diffuser stack gas eductor in turbulent cross-flow
[AD-A139053] 15 p2343 N84-25068
Recent advances in multispectral sensing of ocean surface temperature from space
17 p2717 N84-27297
Variations in surface current off the coasts of Canada as inferred from infrared satellite imagery
17 p2719 N84-27305
Response of an atmospheric prediction model to time-dependent sea-surface temperatures
[AD-A140730] 17 p2734 N84-27377
An investigation of the transient thermal analysis of spur gears
[NASA-TM-83724] 18 p2849 N84-28068
Analytical model of latitudinal variation of dispersion and spectra of fluctuations of zonally averaged surface temperature 18 p2856 N84-28137
Surface and atmospheric boundary layer. Observations from ships, appendix D 18 p2884 N84-28299
Study of gas-surface interactions by laser-induced fluorescence detection
[AD-A141559] 19 p2988 N84-28933
Soil moisture from temperature measurements at the Earth's surface, update 20 p3222 N84-30474
Modification of the surface temperature by an artificial cirrus cloud
[DE84-011387] 20 p3247 N84-30611
Interannual variability in sea-surface temperature at one location along the central California coast
[AD-A142553] 20 p3251 N84-30632
Teleconnections and sea surface temperature anomaly effects on the drought of 1983 in northeast Brazil
[INPE-3214-PRE/567] 21 p3446 N84-31867
Monitoring of long waves in the eastern Equatorial pacific 1981-1983 using satellite multi-channel sea surface temperature charts
[PB84-190487] 21 p3451 N84-31900
Rectangular heat source on a semi-infinite solid: An analysis of a thin film heat flux gage
[DE84-012234] 22 p3599 N84-32796
Determination of sea surface temperature with N-ROSS (Navy-Remote Ocean Sensing System)
[AD-A143563] 22 p3627 N84-32984
High Marangoni Number convection in a square cavity: Additional results
[AD-A144485] 24 p3901 N84-34701
Methodology for interpretation of SST retrievals using the AVHRR split window algorithm
[NASA-TM-85100] 24 p3934 N84-34905

SURFACE TENSION
U INTERFACIAL TENSION

SURFACE TO AIR MISSILES
Stinger post hybrid simulation: Design description and users' manual
[AD-A130027] 01 p0122 N84-10791
Preliminary scramjet design for hypersonic airbreathing missile application
[NASA-CR-3742] 04 p0486 N84-13195
Advanced Technology for SAM Systems Analysis Synthesis and Simulation
[AGARD-LS-135] 21 p3350 N84-31248
Advanced technology for SAM systems analysis, synthesis and simulation 21 p3350 N84-31249
Method for designing future weapons systems: Example of the very short distance ground-air systems
21 p3350 N84-31250
Some aspects of guidance loop design for SAM systems 21 p3350 N84-31251
A new concept for guiding missiles with an application to the ground-air system 21 p3350 N84-31253
Seeker systems simulation, present capability and future technology 21 p3350 N84-31254
Warheads for SAM systems 21 p3351 N84-31257

SURFACE TO SURFACE MISSILES
NT ANTITANK MISSILES
NT CRUISE MISSILES
NT INTERCONTINENTAL BALLISTIC MISSILES
NT MINUTEMAN ICBM
NT MX MISSILE
NT PERSHING MISSILE

SURFACE TREATMENT
U SURFACE FINISHING

SURFACE VEHICLES
NT AIRCRAFT CARRIERS
NT AUTOMOBILES
NT BOATS
NT CARGO SHIPS
NT ELECTRIC AUTOMOBILES
NT ELECTRIC HYBRID VEHICLES
NT ELECTRIC MOTOR VEHICLES
NT MOTOR VEHICLES
NT ROADWAY POWERED VEHICLES
NT ROCKET PROPELLED SLEDS
NT SLEDS
NT SURFACE EFFECT SHIPS
NT TANKER SHIPS
NT TANKS (COMBAT VEHICLES)
NT TRACTORS
NT TRANSPORTER
NT TRUCKS
NT WALKING MACHINES
A preliminary assessment of observer expectations in target detection tasks
[MRL-R-893] 05 p0715 N84-14682
Flywheel energy-management systems for improving fuel economy of motor vehicles
[DE84-002340] 06 p0874 N84-15688
The Shock and Vibration Digest, volume 15, no. 12
[AD-A138158] 10 p1506 N84-19852
Vehicle-structure interactions in bridge dynamics
10 p1506 N84-19853
The Shock and Vibration Bulletin. Part 3: Vehicle dynamics and vibration: Test and criteria
[AD-A134454] 10 p1511 N84-19893
Vehicle dynamic analysis with flexible components
[AD-P002939] 14 p2197 N84-24179
A field evaluation of the Bendix Gyrocompass Navigation System land navigator
[AD-A140368] 16 p2446 N84-25689
Infrared measurements of vehicles and weapons
[AD-A141177] 18 p2932 N84-28592
USSR report: Transportation
[JPRS-UTR-84-024] 21 p3329 N84-31119

SURFACE WATER
Propagation of weakly-nonlinear surface water waves in regions with varying depth and current
[AD-A132503] 05 p0711 N84-14657
Classification and area estimation of land covers in Kansas using ground-gathered and LANDSAT digital data
[E84-10068] 06 p0865 N84-15637
The advection of submesoscale thermal features in the Alboran Sea Gyre
[AD-A133877] 06 p0884 N84-15749
Short-term measurements of surface currents associated with the Alboran Sea during Donde Va?
[AD-A133812] 06 p0884 N84-15750
Remote sensing and hydrologic models
[E84-10082] 07 p1022 N84-16628
Strategies for using remotely sensed data in hydrologic models 07 p1022 N84-16630
Water resources data for Nevada, water year 1982
[PB84-120385] 09 p1340 N84-18755
Water resources data for Utah, water year 1982
[PB84-120484] 09 p1340 N84-18756
Water resources data for Colorado, water year 1982. Volume 2: Colorado River Basin above Dolores River
[PB84-120136] 10 p1527 N84-20004
Analysis of observed and modeled mixed layers: Nocal (northern California) region
[AD-A136773] 10 p1543 N84-20109
Water resources data, Kentucky water year 1982
[PB84-182320] 14 p2171 N84-24004
Water resources data for Oregon, water year 1982. Volume 1: Eastern Oregon
[PB84-164326] 14 p2171 N84-24005
Water resources data for Oregon, water year 1982. Volume 2: Western Oregon
[PB84-164334] 14 p2171 N84-24006
Water resources data for Minnesota water year, 1982. Volume 2: Upper Mississippi and Missouri River Basins
[PB84-163054] 14 p2171 N84-24008
Preliminary comparisons of the information content and utility of TM versus MSS data 20 p3215 N84-30423

SURFACE WAVES
NT BAROCLINIC WAVES
NT CAPILLARY WAVES
NT ELECTROMAGNETIC SURFACE WAVES
NT GRAVITY WAVES
NT RIPPLES
An estimate of HF/VHF surface-wave communication link reaches in the West German forest environment
[AD-A131282] 01 p0067 N84-10441
Nonperiodic fluctuations induced by stationary surface waviness on a semi-infinite plate
[AD-A130620] 02 p0174 N84-11146
On differential equations of nonlocal elasticity and solutions of screw dislocation and surface waves
[AD-A131911] 03 p0425 N84-12786
An analysis of acoustic and seismic wave resonances
04 p0561 N84-13701
Constraints on the Earth's anelastic and aspherical structure from antipodal surface waves
06 p0876 N84-15700

Surface wave path corrections, deterministic discrimination and body wave attenuation
[AD-A133574] 08 p0878 N84-15714
Mechanisms for SAR imaging of ocean surface phenomena: Theory and experiment
07 p0990 N84-16416
A new derivation for the rough surface reflection coefficient and for the distribution of sea wave elevations
[AD-A134774] 08 p1145 N84-17453
Surface wave tomography
[NASA-CR-175373] 08 p1186 N84-17728
Development of ultrasonic modeling techniques for the study of crustal inhomogeneities
[AD-A134501] 08 p1187 N84-17738
On modifications of the Zakharov equation for surface gravity waves
[AD-A135050] 08 p1217 N84-17943
Stationary and non-stationary nonlinear optical spectroscopy on surface polaritons
[NASA-TM-77388] 10 p1578 N84-20340
Surface plasmon-enhanced Raman scattering at thin silver films
[AD-A136321] 12 p1793 N84-21691
A review study of nondestructive test techniques for residual stresses in aircraft transparencies
[AD-A136930] 13 p1930 N84-22555
Elastic wave scattering from cylindrical cavities and solid inclusions analyzed by the resonance method
[AD-P002971] 14 p2201 N84-24207
Exact image theory for the Sommerfeld half-space problem with a vertical electric di-pole
[REPT-S-144] 15 p2320 N84-24926
Microwave discharges in capillary tubes
[LP-203] 16 p2558 N84-26410
Role of excitation frequency in discharges created by surface waves
[LP-205] 16 p2558 N84-26411
Acoustic surface wave applications
18 p2918 N84-28503
The breaking of ocean surface waves
[AD-A142356] 20 p3250 N84-30629
Transition bifurcation branches in non-linear water waves
[CAR-8418] 21 p3398 N84-31556
Finite-amplitude interfacial waves
[AD-A142767] 21 p3444 N84-31849
Criteria for nearly omnidirectional radiation patterns for printed antennas
[AD-A143662] 23 p3731 N84-33646
A first attempt to identify areas of high probability for the occurrence of surface skipjack schools (Katsuwonus pelamis), from an analysis of oceanographic data for the south-southeast region of Brazil
[INPE-2972-RPE/440] 23 p3803 N84-34112
Application of surface magnetoplasmons on semiconductor substrates
[AD-A143767] 23 p3830 N84-34293
Effect of physical properties on break-up and atomization of liquid jets in a supersonic crossflow
24 p3851 N84-34427
Temperature compensation of surface transverse waves for stable oscillator applications
[AD-A144245] 24 p3894 N84-34660
Crustal shear velocity modelling in Nevada: A study of broadband multi-mode surface waves
24 p3918 N84-34802

SURFACES
Metal-insulator-metal junctions as surface sources of intermodulation
[AD-A130451] 01 p0043 N84-10279
Laser-induced bound states at surfaces: Ion neutralization and adsorption
[AD-A130278] 01 p0086 N84-10562
Analysis of nonplanar wing-tip mounted lifting surfaces on low-speed airplanes 06 p0786 N84-15142
An interpolation and compaction technique for gridded data
[AD-A137107] 10 p1569 N84-20276
A bivariate C-2 Clough-Tocher scheme
[AD-A137930] 11 p1715 N84-21183
Computer-Aided Geometry Modeling
[NASA-CP-2272] 12 p1869 N84-22179
An operator calculus for surface and volume modeling
12 p1869 N84-22180
A geometric modeler based on a dual-geometry representation polyhedra and rational b-splines
12 p1869 N84-22181
The computation of all plane/surface intersections for CAD/CAM applications 12 p1869 N84-22182
Use of shape-preserving interpolation methods in surface modeling 12 p1870 N84-22183
An umtul of blinding functions
12 p1870 N84-22184
Intersection of parametric surfaces using lookup tables 12 p1870 N84-22185
Surface grid generation for wing-fuselage bodies
12 p1870 N84-22186
The variability of the surface wind field in the equatorial Pacific Ocean: Criteria for satellite measurements
17 p2717 N84-27296

SURFACTANTS
Effect of modifying additives on the properties of polymer blends
[CSIR-1690] 01 p0049 N84-10313
Particulate models of photosynthesis
[DE84-003947] 12 p1863 N84-22142
Flow of foam through porous media
[DE84-012410] 20 p3186 N84-30246
Optical spectroscopy of disordered materials and X-ray scattering from surfaces 22 p3682 N84-33345

SURGERY
Use of electromagnetic field in patients following a disruption of cerebral circulation
07 p1044 N84-16768
System for the management of trauma and emergency surgery in space
[NASA-CR-175439] 11 p1693 N84-21045
Process of making medical clip
[NASA-CASE-LAR-12650-2] 18 p2899 N84-28389
A model of the shoulder girdle for use in rehabilitation
20 p3264 N84-30710
Treatment of patients with a lesion of the brachial plexus 20 p3264 N84-30712
Medical applications of lasers
21 p3452 N84-31904

SURGES
Transient-temperatures-measurement errors
[DE83-006300] 01 p0085 N84-10549
Thermophysical property determination using transient techniques
[AD-A130707] 01 p0156 N84-11027
Characterization of conservatism in mechanical shock testing of structures
[DE83-013524] 02 p0232 N84-11521
Modeling of transient disturbances in coronal-streamer configurations 03 p0474 N84-13119
The transient response of circular foil heat-flux gages
[DE83-017785] 04 p0538 N84-13541
Mathematical and physical scaling of triggered lightning — lightning effects on aircraft circuitry
[DE84-002480] 05 p0709 N84-14646
A new numerical method for the transient gas-dyanmic code EVENT
[LA-9594-MS] 06 p0920 N84-15977
Computer models for two-dimensional transient heat conduction
[AD-A134893] 08 p1160 N84-17549
Transient thermal stresses in a reinforced hollow disk or cylinder containing a radial crack
[NASA-CR-173292] 08 p1170 N84-17619
Numerical simulation of the forcing of monsoon surges by mid-latitude baroclinic waves
[AD-A136274] 09 p1348 N84-18807
Goddard Space Flight Center contributions to the University of California, Santa Cruz Summer Workshop on High Energy Transients
[NASA-TM-86050] 09 p1406 N84-19186
The rapidly moving telescope: An instrument for the precise study of optical transients
09 p1407 N84-19193
Some properties of transient phenomena in the extra-tropical region and their importance in the seasonal mean flow 12 p1859 N84-22112
Control fo switching induced surges using SF6 devices
[CAHIERS-TECHNIQUES-125]
15 p2331 N84-24995
Unsteady Flow in Turbomachines, volume 2
[VKI-LS-1984-02-VOL-2] 16 p2489 N84-25965
Encounters with surge 16 p2489 N84-25966
Numerical aspects of unsteady flow calculations
16 p2489 N84-25968
Surge prediction in industrial compressors
16 p2489 N84-25969
Determination of the stable operating conditions of an axial flow compressor 16 p2490 N84-25971
Simplified thermal transient test for electro explosive devices
[AD-A132970] 18 p2644 N84-28060
Switching transients in a superconducting coil
[DE84-012592] 21 p3393 N84-31532

SURVEILLANCE
NT SPACE SURVEILLANCE (GROUND BASED)
NT SPACE SURVEILLANCE (SPACEBORNE)
Distributed sensor network
[AD-A131245] 01 p0140 N84-10919
Optical surveillance for international safeguards: Present and future
[DE83-014278] 02 p0223 N84-11465
Meteorological sensors for battlefield weather support
[AD-A132623] 05 p0709 N84-14643
Distributed sensor network
[AD-A133250] 06 p0909 N84-15903
Geostatistics software user's manual for the Geosciences Research and Engineering Department PDP 11/70 computer
[DE84-004149] 09 p1369 N84-18940
Mode S surveillance netting
[AD-A138267] 12 p1768 N84-21531
Decision and display analysis in a simple surveillance problem
[AD-P002866] 13 p1979 N84-22847
Distributed estimation in the MIT/LL (Massachusetts Institute of Technology/Lincoln Laboratory) DSN (Distributed Sensor Networks) test-bed
[AD-P002897] 13 p1980 N84-22856
A framework for evaluation of surveillance algorithms
[AD-P002901] 13 p1981 N84-22859
High angular resolution microwave sensing with large, sparse, random arrays
[AD-A138717] 13 p1983 N84-22874
ACOSS eleven (Active Control Of Space Structures), volume 1
[AD-A140025] 15 p2282 N84-24703
ACOSS eleven (Active Control Of Space Structures), volume 2
[AD-A140026] 15 p2282 N84-24704
Optical signal processing for surveillance
[AD-A140957] 18 p2932 N84-28591
The feasibility, practicality and utility of P-3 inflight refueling
[AD-A143419] 22 p3535 N84-32382
Extracts from symposium: Countersurveillance 1983
[MRL-R-921] 24 p3914 N84-34779
Multi-sensor surveillance 24 p3914 N84-34780
Autonomous surveillance in the visual spectral region
24 p3914 N84-34786
Optical processing, its role in surveillance
24 p3915 N84-34788
Design study of ion anti-contamination system
[AD-A144197] 24 p3963 N84-35097

SURVEILLANCE RADAR
NT AIRBORNE SURVEILLANCE RADAR
NT MULTISTATIC RADAR

SURVEYING
U SURVEYS

SURVEYOR PROJECT
The cart before the horse: Mariner spacecraft and launch vehicles 24 p3990 N84-35250

SURVEYS
NT GEODETIC SURVEYS
NT GEOLOGICAL SURVEYS
NT WAGE SURVEYS
Ozone survey of C-9A
[AD-A130632] 01 p0009 N84-10052
A survey of body fat content of U.S. Navy male personnel
[AD-A131500] 01 p0113 N84-10736
Hydrographic survey requirements system (HYSUR)
[AD-A131115] 02 p0240 N84-11573
Training feedback handbook
[AD-A132565] 05 p0715 N84-14683
The revised AFGL (Air Force Geophysics Laboratory) Infrared Sky Survey Catalog
[AD-A134007] 05 p0763 N84-15005
Census of US Civil aircraft. Calendar year 1982
[AD-A133161] 06 p0768 N84-15033
Job attitudes toward the new maintenance concept of the airway facilities service
[AD-A133282] 06 p0891 N84-15793
The evaluation/validation process: Data from disciplines resting on good theoretical foundations
07 p1086 N84-17065
Airborne fallout monitoring
[FOA-A-40045-A3] 08 p1183 N84-17705
Research, investigations and technical developments: National Mapping Program, 1982
[USGS-OPEN-FILE-83-568] 10 p1524 N84-19985
An error analysis of range-azimuth positioning
[AD-A136775] 10 p1525 N84-19990
Report of prochloron research, IPE-7 (Palau, February 1982) 10 p1544 N84-20122
Thermally stable elastomers: A review
[AD-A137914] 11 p1638 N84-20707
The planet crossing asteroid survey: Progress in the analysis of populations and terrestrial-planet cratering rates 13 p2075 N84-23449
Literature review on occurence and methodology for determination of nickel, chromium, manganese and arsenic species in air
[PB84-172105] 16 p2463 N84-25788
An investigation of organizational climate: Definition, measurement, and usefulness as a diagnostic technique
17 p2771 N84-27595
The use of satellite and aircraft SAR to detect and chart hazards to navigation
[AD-A141658] 19 p3041 N84-29296

Presbycusis, sociocusis, and nosocusis
19 p3069 N84-29471
Aviation fuels, 1983
[DE84-011823] 20 p3166 N84-30106
Defense industry attitudes about AF interface standards report of an electronics industries association survey
[AD-P003570] 21 p3337 N84-31175
Survey of manufacturers of high-performance heat engines adaptable to solar applications
[NASA-CR-173911] 22 p3617 N84-32919
Predictions of satisfaction with automated library circulation systems 22 p3670 N84-33259
Microcomputers of Socialist countries
24 p3944 N84-34969

SURVIVAL
Nonparametric estimation of the distribution of time to onset for specific diseases in survival/sacrifice experiments
[DE83-013726] 01 p0112 N84-10726
Interoperability of the European Defense Communications System with TRI-service tactical communications
[PB83-240614] 02 p0211 N84-11383
Matched survival analysis (MSURV)
[AD-A131337] 02 p0284 N84-11861
Medical aspects of survival: Training for aircrew
[AGARD-AG-283(FR)] 06 p0691 N84-15787
A model for evaluation of satellite population management alternatives
[AD-A136886] 10 p1436 N84-19366
Survival probability of non-linear oscillators subjected to broad-band random disturbances
15 p2312 N84-24875
The military aircrew work environment
[FOA-A-59005-H1-H2] 18 p2915 N84-28490
Inference based on ranks with multiple failure time or grouped survival data
[MATHS-RES-177] 20 p3200 N84-30324

SURVIVAL EQUIPMENT
Mathematical simulation of diver performance
[AD-A133844] 05 p0713 N84-14671
Helicopter Pilot/Copilot survival system
[AD-A140358] 16 p2445 N84-25682

SUSCEPTIBILITY (MAGNETISM)
U MAGNETIC PERMEABILITY

SUSPENDING (HANGING)
NT MAGNETIC SUSPENSION
Metabolic alterations caused by suspension hypokinesia in leg muscles of rats 09 p1354 N84-18848
Effects of suspension on tissue levels of glucocorticoid receptors 09 p1360 N84-18884
A free-form modal survey suspension system for large test articles 10 p1513 N84-19907
The influence of a moving suspension on the behaviour of modelled helicopter underslung loads
[BU-288] 15 p2260 N84-24573
Control of quadriaxial cardan suspension
17 p2643 N84-26911
Probabilistic characteristics of perturbation torques in gyroscopes with electrostatic suspension
17 p2643 N84-26913

SUSPENDING (MIXING)
Flow properties of concentrated suspensions
[NASA-TM-77431] 19 p3021 N84-29154
Continuum theory for fiber suspensions
[DE84-012258] 21 p3402 N84-31584

SUSPENSION SYSTEMS (VEHICLES)
Application of active and passive suspension techniques to improve high speed ground vehicle performance
[PB83-224576] 01 p0164 N84-11076
Investigation of the strength of a flycatcher wheel suspension
[IWECO-5075410-83-01] 12 p1827 N84-21912
Guidance and actuation systems for an adaptive-suspension vehicle
[AD-A139111] 14 p2155 N84-23910
An experimental study of an ultra-mobile vehicle for off-road transportation
[AD-A141323] 18 p2849 N84-28091

SUSPENSIONS
Structure formation in an electric field and the composition of electrorheological suspensions
[AD-B081902] 16 p2462 N84-25777

SWAMPS
U MARSHLANDS

SWASH
U SPLASHING

SWEATING
U PERSPIRATION

SWEDEN
Sweden's STU proposes funding for metals, ceramics approach 17 p2640 N84-26890
Radar network in Sweden — meteorological radar
18 p2888 N84-28333
OECD study shows Sweden has highest robot-worker ratio 24 p3892 N84-34648

SWEEP ANGLE
NT LEADING EDGE SWEEP
Investigation of the effect of blade sweep on rotor vibratory loads
[NASA-CR-166526] 09 p1258 N84-18196

SWEEP EFFECT
Flutter of swept fan blades
[NASA-TM-83547] 07 p1015 N84-16587

SWEEP FREQUENCY
Development of a sweep-frequency electromagnetic exploration method for three-dimensional terrain analysis
[AD-A129607] 01 p0064 N84-10422
Radiation pressure on atoms: Laser cooling and intense field effects
[AD-A143637] 23 p3754 N84-33793

SWEEPBACK
NT LEADING EDGE SWEEP

SWELLING
Comparison of compression properties and swelling of beryllium irradiated at various temperatures
[DE84-000597] 04 p0500 N84-13277
Factors which determine the swelling rate of austenitic stainless steels
[DE84-001474] 05 p0656 N84-14315
Finite element analysis of moisture and external loading effects in composites 06 p0799 N84-15211
Swelling behavior of a simple ferritic alloy
[DE84-003162] 07 p0978 N84-16329
Improved swelling resistance for PCA austenitic stainless steel under HFIR irradiation through microstructural control
[DE84-003203] 08 p1133 N84-17370
Helium effects on the swelling of steels
[DE84-008989] 18 p2815 N84-27871
Fundamental alloy studies
[DE84-013941] 22 p3555 N84-32513

SWEPT FORWARD WINGS
Wake characteristics and interactions of the Canard/wing lifting surface configuration of the X-29 forward-swept wing flight demonstrator
[AD-A133188] 06 p0783 N84-15126
X-29 flight-research program
[NASA-TM-86025] 07 p0951 N84-16166
Dynamics and control of forward swept wing aircraft
[NASA-CR-175369] 08 p1103 N84-17172
Body-freedom flutter of a 1/2-scale forward-swept-wing model, an experimental and analytical study
[NASA-CR-172324] 12 p1771 N84-21553
Active suppression of aeroelastic instabilities for forward swept wings 16 p2438 N84-25638
A technique for optimizing the aerodynamic design of a generalized combat aircraft with forward swept wings for the purposes of stability and control investigation
[CA-8325] 16 p2448 N84-25700
Active suppression of aeroelastic instabilities for forward swept wings
[AD-A141739] 19 p2964 N84-28783
Active suppression of aeroelastic instabilities on a forward swept wing using a linear optimal regulator
[AD-A144561] 24 p3854 N84-34442

SWEPT WINGS
NT ARROW WINGS
NT DELTA WINGS
NT SWEPT FORWARD WINGS
NT SWEPTBACK WINGS
Numerical calculation of the transonic potential flow past a cranked wing
[NASA-TM-84391] 01 p0008 N84-10049
Subsonic/transonic viscous interactions
03 p0317 N84-12075
Vortical flow management for improved configuration aerodynamics: Recent experiences
03 p0326 N84-12129
Three-dimensional wake of a swept wing
06 p0838 N84-15458
Wind-tunnel free-flight investigation of a model of a forward-swept-wing fighter configuration
[NASA-TP-2230] 06 p1105 N84-17184
On the stability of an infinite swept attachment line boundary layer
[NASA-CR-172300] 10 p1420 N84-19285
Numerical solution of three-dimensional unsteady transonic flow over wings including inviscid/viscous interactions
[NASA-CR-166561] 11 p1600 N84-20478
Excitation of Tollmin-Schlichting waves in boundary layer at vibrating surface of infinite-span sweptback wing
13 p1971 N84-22792
A quasi-simultaneous calculation method for strongly interacting viscous flow around an infinite swept wing
[NLR-MP-83001-U] 17 p2601 N84-26672
An analysis of wave interactions in swept-wing flows
[NASA-CR-173723] 18 p2786 N84-27681
COSAL: A black-box compressible stability analysis code for transition prediction in three-dimensional boundary layers
[NASA-CR-165925] 18 p2836 N84-28002
Aerodynamic heating computations for projectiles. Volume 2: Swept wing calculations using the planar version of the ABRES shape change code (PLNRASCC)
[AD-A143253] 22 p3532 N84-32360
Aerodynamic design of the contoured wind-tunnel liner for the NASA supercritical, laminar-flow-control, swept-wing experiment
[NASA-TP-2335] 23 p3688 N84-33377
Transition description and prediction in three-dimensional flows 23 p3748 N84-33761
Refined methods of aeroelastic analysis and optimization — swept wings, propeller theory, and subsonic flutter
[NASA-CR-173987] 23 p3760 N84-33835

SWEPTBACK WINGS
NT ARROW WINGS
NT DELTA WINGS
On the generation and subsequent development of spiral vortex flow over a swept-back wing
03 p0322 N84-12105
Suppression of interference flutter by composite tailoring 05 p0632 N84-14155
Oscillations of elastic airplane due to wind gust
21 p3485 N84-32067
Experience with transonic unsteady aerodynamic calculations
[NASA-TM-86278] 22 p3530 N84-32353
Transonic equivalence rule with lift
[AD-A143591] 23 p3690 N84-33389

SWIMMING POOL REACTORS
Real-time attenuation of heated optical fibers in a nuclear reactor
[DE83-015141] 03 p0438 N84-12873

SWINGBY TECHNIQUE
Flights to asteroids with space vehicle maneuvers near Venus, Earth, Mars and Jupiter
19 p2973 N84-28844

SWIRLING
A numerical investigation of the multiple vortex phenomenon: Vortex number and structure as a function of swirl ratio 06 p0931 N84-16049
Computation of strongly swirling axi-symmetric free jets
[KU-SFB-80/T/216] 07 p1004 N84-16512
Confined turbulent swirling recirculating flow predictions
[NASA-CR-175397] 10 p1491 N84-19745
Swirl, expansion ratio and blockage effects on confined turbulent flow
[NASA-CR-175391] 10 p1491 N84-19746
Turbulent swirling combustion
11 p1609 N84-20535
Investigations of flowfields found in typical combustor geometries 11 p1611 N84-20544
Experimental study of turbulent swirling flows
11 p1650 N84-20776
Extension to an analysis of turbulent swirling compressible flow for application to axisymmetric small gas turbine ducts
[NASA-CR-165597] 11 p1753 N84-21445
Mixing of swirling flows and behavior of wet flows
[AD-A136697] 13 p1989 N84-22915
An investigation into anti-swirl devices for s-shaped air intakes
[BU-293] 15 p2256 N84-24549
Studies of heat transfer in complex internal flows
[AD-A140804] 17 p2668 N84-27014
An experimental investigation of gas jets in confined swirling air flow
[NASA-CR-3832] 23 p3694 N84-33412

SWIRLING WAKES
U TURBULENT WAKES

SWITCHES
NT CAPACITANCE SWITCHES
NT ELECTRIC RELAYS
NT ELECTRIC SWITCHES
NT FLUID SWITCHING ELEMENTS
NT PRESSURE SWITCHES
NT SWITCHING CIRCUITS
NT THERMOSTATS
Diode dynamics, beam generation and transport and plasma erosion opening switch development
[AD-A129821] 01 p0070 N84-10457
Review of repetitive-pulse-power component technology
[DE83-011784] 01 p0073 N84-10475
Ultraviolet-laser triggering of a 5-megavolt multistage gas switch
[DE83-013641] 01 p0087 N84-10570
Experimental investigation of explosive-driven plasma-compression opening switches
[DE83-0124200] 02 p0214 N84-11399

Simple ideal gas model of the Pavlovskii high-explosive opening switch
[DE83-016830] 02 p0215 N84-11411
Photoconductive power switches
[DE83-015239] 02 p0224 N84-11469
High-current railgap studies
[DE83-013859] 02 p0290 N84-11898
High-average-power rep rate systems
[DE83-013769] 03 p0366 N84-12385
Progress in developing repetitive pulse systems utilizing inductive energy storage
[DE83-015167] 03 p0367 N84-12388
Power-loading effects in gas-discharge models
[DE83-016504] 03 p0368 N84-12393
Theoretical modeling of the plasma-erosion opening switch for inductive-storage applications
[DE84-001843] 04 p0529 N84-13483
Temperature rise of handles and knobs
[BLL-OA-TRANS-3047-(6196.3)] 04 p0533 N84-13502
Electron-drift velocity and ionization and attachment coefficients in gases/mixtures for diffuse-discharge opening switches
[DE83-017206] 04 p0609 N84-14017
Energy stores and switches for rail-launcher systems
[NASA-CR-173249] 07 p0996 N84-16458
Double-injection, deep-impurity switch development
[NASA-CR-168335] 09 p1306 N84-18536
Development of a thermal controller for space application 10 p1445 N84-19437
Advances in solid state switchgear technology for large space power systems
[NASA-TM-83652] 13 p1986 N84-22891
Topical Meeting on Optical Bistability
[AD-A136998] 14 p2231 N84-24361
K-band latching switches
[NASA-CR-168253] 15 p2327 N84-24973
Restructurable VLSI program
[AD-A139959] 15 p2329 N84-24987
Development of a solid-state circuit breaker concept
[DE84-009110] 15 p2414 N84-25493
Intermediate access switch: A multiprocessor application
[AD-A140363] 16 p2485 N84-25935
Long-life, high-current thyratrons for fast discharge lasers
[AD-A140817] 17 p2663 N84-26991
Design considerations for high-power VHF radar transceivers: T/R switch design 17 p2693 N84-27151
High power optical switch for microsecond switching
[AD-D011084] 19 p3017 N84-29123
An operating system and memory switch for the S-1 computer
[DE84-013094] 20 p3267 N84-30731
Digital rotation measurement unit
[DE84-010872] 21 p3392 N84-31526
Switching transients in a superconducting coil
[DE84-012582] 21 p3393 N84-31532
Transport properties and dielectric strengths of gas mixtures for use in diffuse discharge opening switches
[DE84-011444] 21 p3394 N84-31536
The 20 x 20 high speed microwave switches
[NASA-TM-83775] 22 p3575 N84-32644
Magnetic switches and circuits, revision 2
[DE84-014141] 22 p3588 N84-32725
Large aperture electro-optical switch
[DE84-013069] 22 p3588 N84-32728
Three-phase power factor controller with induced EMF sensing
[NASA-CASE-MFS-25852-1] 23 p3734 N84-33661
Ultraviolet laser triggering of the 6 MV PBFA-2 gas switch
[DE84-014004] 23 p3755 N84-33802
Selections on CSSR electronics, computer technology: MHB8604 integrated circuit 23 p3813 N84-34179
Thomson develops new optical reader, digital switching system: Gigadisc reader recorder 24 p3891 N84-34638

SWITCHING
NT BEAM SWITCHING
NT MAGNETIC SWITCHING
NT MICROWAVE SWITCHING
NT PACKET SWITCHING
NT PACKET TRANSMISSION
On-line traffic monitor
[AD-A131356] 02 p0209 N84-11364
Development and fabrication of an augmented power transistor
[NASA-CR-168262] 02 p0212 N84-11388
Switchable zero order diffraction gratings as light valves
[AD-A133010] 05 p0747 N84-14906
Advanced aircraft electrical system control technology demonstrator. Phase 1: Requirements analysis & preliminary design. Phase 2: Detailed design
[AD-A136758] 10 p1428 N84-19337
High voltage-high power components for large space power distribution systems
[NASA-TM-83648] 13 p1940 N84-22615
Polarization switching with sodium vapour 14 p2239 N84-24445
Switching net models: Rudimentary behavior, representations and applications
[AD-A140047] 15 p2398 N84-25391
Intermediate access switch: A multiprocessor application
[AD-A140363] 16 p2485 N84-25935
Alternative voice switching and control system display panel format simulation and evaluation
[NASA-CR-173644] 17 p2654 N84-26973
Phase detector for three-phase power factor controller
[NASA-CASE-MFS-25854-1] 18 p2832 N84-27975
Graphics workstation switching unit
[DE84-011626] 20 p3275 N84-30788
Three-wire static strain gage apparatus
[AD-D011130] 22 p3596 N84-32776
FET switching regulator
[AD-D011146] 23 p3735 N84-33665
Triggered spark gap discharger
[AD-D011174] 23 p3742 N84-33724
Electro-optical switching and memory display device
[DE84-014227] 23 p3744 N84-33732

SWITCHING CIRCUITS
NT FLUID SWITCHING ELEMENTS
Transient overvoltages on cable sheaths
[BLL-OA-TRANS-2620-(6196.3)] 01 p0069 N84-10448
Switchable 10-bit PCM decoder
[AD-A130481] 01 p0070 N84-10459
Low-input-harmonics power supplies
[AD-A130337] 01 p0071 N84-10462
Restructurable VLSI program
[AD-A131246] 01 p0072 N84-10472
Coordinated research program in pulsed power physics
[AD-A129554] 01 p0138 N84-10905
Reverse bias second breakdown in power switching transistors
[AD-A130145] 02 p0213 N84-11391
Switching-speed improvements in PLZT shutters
[DE83-013096] 02 p0214 N84-11403
Monolithic integrated analog switching arrays
[BMFT-FB-T-83-146] 02 p0216 N84-11418
An FET full-bridge switcher for inductorless capacitor charging for Nova
[DE83-018005] 04 p0528 N84-13471
A programmable controller with overcurrent latch for constant primary peak current in capacitor-charging FET switcher for Nova
[DE83-018184] 04 p0542 N84-13589
Workshop on Solid State Switches for Pulsed Power
[AD-A132667] 05 p0754 N84-14945
Pulsed thyristor trigger control circuit
[NASA-CASE-MFS-25616-1] 07 p0996 N84-16455
Input filter compensation for switching regulators
[NASA-CR-173247] 07 p0996 N84-16459
Pulse width modulated DC link converter development
[AD-A134486] 07 p0997 N84-16467
Performance evaluation of circuit switching for data networks
[ENST-C-83001] 07 p1056 N84-16842
Switched-capacitor sampled-data networks with communication applications 08 p1142 N84-17429
Progress in research in electronics engineering: Technical review
[DE84-006389] 11 p1647 N84-20772
Study of solar array switching power management technology for space power system
[NASA-CR-167890-EXEC-SUM] 13 p2008 N84-23021
Application of a distributed routing algorithm to a packet-switched communications network
[AD-A139147] 14 p2140 N84-23828
Coordinated research program in pulsed power physics
[AD-A139321] 14 p2142 N84-23843
Completeness for uniformly delayed circuits
[AD-P002325] 14 p2189 N84-24116
A study of reduced dependence in multi-valued sequential machines
[AD-P002326] 14 p2189 N84-24117
Synthesis method for ternary logic function based on NAND-type polypheck
[AD-P002348] 14 p2192 N84-24139
Vector expansion transformation of logic algebra
[AD-P002349] 14 p2192 N84-24140
Roots of N-valued switching functions
[AD-P002350] 14 p2192 N84-24141
Automated design of combinational networks under specific constraints: A theorem proving approach
[AD-P002377] 14 p2195 N84-24168
Effect of driving laser fluctuations on optical bistability 14 p2235 N84-24413
Switching behavior of bistable resonators filled with two-level atoms 14 p2236 N84-24419
Input filter compensation for switching regulators
[NASA-CR-173557] 15 p2327 N84-24975
Low-frequency switching voltage regulators for terrestrial photovoltaic systems
[NASA-TM-83625] 16 p2483 N84-25926
Theses and remarks of future development of calculators 16 p2549 N84-26350
Defense switched network technology and experiments program
[AD-A140609] 17 p2653 N84-26966
The Pringle parallel computer
[AD-A140852] 17 p2750 N84-27452
High-voltage spark gap
[AD-A141072] 19 p3013 N84-29097
High power optical switch for microsecond switching
[AD-D011084] 19 p3017 N84-29123
Multiple gap optically activated switch
[AD-D011014] 19 p3104 N84-29723
New 1-phase dual converter for superconducting inductive energy storage and transfer applications: The 1-phase inductor-converter bridge
[DE84-012118] 20 p3179 N84-30193
P-I-N Diode Switches Project
[INPE-3171-PRE/541] 21 p3391 N84-31516
Electronic Switching Spherical Array (ESSA) antenna systems
[NASA-TM-86127] 22 p3572 N84-32621
Radio frequency distribution assembly
[AD-A143575] 22 p3577 N84-32658
Simplified dc to dc converter
[NASA-CASE-LEW-13495-1] 23 p3734 N84-33663
FET switching regulator
[AD-D011146] 23 p3735 N84-33665
Methods for use of the single-electrode voltage clamp
[AD-A144177] 24 p3897 N84-34676

SWITCHING ELEMENTS
U SWITCHING CIRCUITS

SWITCHING THEORY
Transmission lines for pulsed power applications
[DE84-002754] 05 p0676 N84-14446
A proof rule for restoring logic circuits
[MC-IW-227/83] 07 p1000 N84-16484
Experimental investigation of switched-capacitor circuits and systems
[AD-A138034] 12 p1811 N84-21808
The Thirteenth International Symposium on Multiple-Valued Logic
[AD-A136457] 14 p2189 N84-24115
Synthesis method for ternary logic function based on NAND-type polypheck
[AD-P002348] 14 p2192 N84-24139
Vector expansion transformation of logic algebra
[AD-P002349] 14 p2192 N84-24140
A comparison of fuzzy switching functions and multiple-valued switching functions
[AD-P002363] 14 p2193 N84-24154

SYMBIOSIS
Prochloron-ascidian symbioses: Photosynthetic potential and productivity 10 p1544 N84-20117
A new outburst of Z Andromedae 24 p3979 N84-35209
The spectrum of the symbiotic star CH Cygni in January 1984 24 p3980 N84-35210

SYMBIOTIC STARS
The physical nature of the symbiotic stars 21 p3524 N84-32325

SYMBOLIC PROGRAMMING
Symbol synchronization for the TDRSS decoder
[NASA-CR-170603] 02 p0207 N84-11352
La Recherche Aerospatiale, bimonthly bulletin number 1983-2, 213/March-April
[ESA-TT-817] 08 p1226 N84-18013

SYMBOLS
Additional symbols used in double-spaced text for Wang OIS word-processor users
[DE83-014908] 01 p0162 N84-11065
Advanced symbology for general aviation approach to landing displays 03 p0313 N84-12039
An investigation of geometric radar shapes for stereotyping
[AD-A131120] 03 p0459 N84-13020
Cognitive components underlying the digit symbol test
[PB83-250464] 04 p0574 N84-13779
Short introduction to office applications of markup language
[DE83-011400] 04 p0582 N84-13844

Evaluation of map symbols for a computer generated topographic display: Transfer of training, symbol confusion, and association value studies
[AD-A133590] 08 p0868 N84-15843
Microcomputer and mythology: Procrustean assignments
[INPE-3012-PRE/455] 17 p2749 N84-27449
Symbolic knowledge processing for the acquisition of expert behavior: A study in medicine
[AD-A141835] 19 p3068 N84-29460
Automatic symbol generating for topographic maps using raster data processing following the example of the general topographic map 1:200,000 (TUEK 200)
20 p3226 N84-30497
The design of an English word-processor for scientific and technical use in which superscripts, subscripts and Greek characters are operated in one-touch, 1
23 p3741 N84-33709
The design of an English word-processor for scientific and technical use in which superscripts, subscripts and Greek characters are operated in one-touch, 2
23 p3741 N84-33710

SYMMETRICAL BODIES
NT AXISYMMETRIC BODIES
NT BODIES OF REVOLUTION
NT CONCENTRIC SPHERES
NT CONICAL BODIES
NT CYLINDRICAL BODIES
NT ELLIPSOIDS
NT FAIRINGS
NT FALLING SPHERES
NT POINCARE SPHERES
NT ROTATING CYLINDERS
NT ROTATING SPHERES
NT SPHERES
NT STREAMLINED BODIES
NT TORUSES
Rotationally symmetric arrays of apertures on conducting spherical surfaces 05 p0673 N84-14419
Dual correlated random excitation technique for modal testing
[NAL-TR-762] 09 p1372 N84-18962

SYMMETRY
NT BROKEN SYMMETRY
Simple structural unit model for core-dependent properties of symmetrical tilt boundaries
[DE83-012620] 01 p0044 N84-10284
On the odd-symmetry of minimum phase-only perturbations
[AD-A130514] 01 p0131 N84-10660
An extremum principle for shape from contour
[AD-A131321] 02 p0272 N84-11760
Momentum-control volumes for finite-difference codes
[DE83-007568] 02 p0282 N84-11849
Relative symmetries of differential equations
[DE83-015231] 03 p0426 N84-12790
A steady-state axisymmetric toroidal system
[IPPJ-643] 03 p0443 N84-12910
Buckling flow and transition to turbulence in axisymmetric plumes 05 p0682 N84-14486
More results on the convergence of iterative methods for the symmetric linear complementarity problem
[AD-A132663] 05 p0738 N84-14846
Recurrence of symmetric random walks
[AD-A133607] 05 p0739 N84-14855
Symmetric set theory, a general theory of isomorphism, abstraction, and representation
[AD-A133630] 05 p0741 N84-14868
Impurity poloidal asymmetries and plasma rotation in the PDX Tokamak 05 p0748 N84-14914
Flow improvements in the circuit of the Langley 4- by 7-meter tunnel
[NASA-TM-85662] 06 p0781 N84-15117
Phase-only nulling at symmetric pattern locations
[AD-A133126] 06 p0822 N84-15361
A Berry-Esseen bound for symmetric statistics
[MC-SW-95/83] 07 p1067 N84-16029
Preserving asymmetry by symmetric processes and distributed fair conflict resolution
[AD-A135458] 08 p1223 N84-17986
Vibrations of doubly-rotated-cut quartz plates with monoclinic symmetry
[AD-A135948] 09 p1377 N84-18996
The research on short backfire antenna
[AD-A137209] 10 p1485 N84-19712
An experimental study of thrust augmenting ejectors
[AD-A136929] 10 p1492 N84-19757
Minimax methods for indefinite functionals
[AD-A137953] 11 p1716 N84-21190
The solution of the dynamic problem of the periodic structures by cyclosymmetric technique — large space structures 12 p1780 N84-21612
Research in elementary particle physics
[DE84-006130] 12 p1903 N84-22392
Analysis of symmetric reinforcement of quasi-isotropic graphite-epoxy plates with a circular cutout under uniaxial tensile loading
[AD-A139966] 15 p2285 N84-24715
Ultrafast gated intensifier design for laser fusion X-ray framing applications
[DE84-007761] 15 p2339 N84-25038
Banded preconditioning for the solution of symmetric positive definite linear systems
[AD-A140097] 15 p2399 N84-25394
Supersymmetry in physics: An algebraic overview
[DE84-007269] 15 p2399 N84-25395
Experimental pressure distributions on axisymmetric forebodies at Mach 3 and angles of attack up to 17.5 degrees
[AD-A140321] 16 p2442 N84-25668
Environment-independent homogenized parameters for neutron diffusion in non-symmetric slabs
[CISE-2117] 16 p2555 N84-26392
On the representation of probability distributions as the convolution of symmetric and completely asymmetric parts
[AD-A140843] 17 p2760 N84-27526
Crystal-field splittings of the Hund ground states of ndN ions in S4 symmetry: Theory and application to the Ga-3+ Gd-3Sc-2Ga-3O-12
[AD-A140623] 17 p2766 N84-27574
Hopf bifurcation and symmetry: Traveling and standing waves on the circle
[MC-TW-249/83] 19 p3091 N84-29631
Experimental investigation of 4-dimensional superspace crystals
[DE84-009239] 19 p3112 N84-29775
A Taylor series in symmetry-adaptable functions
[AD-A142336] 20 p3260 N84-30819
Supersymmetric nonlinear sigma models constrained on a noncompact manifold
[PREPRINT-356] 20 p3263 N84-30843
Fun with supersymmetric quantum mechanics
[DE84-011329] 20 p3312 N84-31031
Infinitesimal deformation of locally symmetrical Riemann spaces. 2: Blaschke's infinitesimal conjecture for complex projective space 22 p3636 N84-33049
Inelastic strong interactions at high energies
[DE84-013647] 22 p3655 N84-33170

SYMMETRY BREAKING
U BROKEN SYMMETRY

SYMPATHETIC NERVOUS SYSTEM
The role of neural reflexes in control of the cardiovascular system during stress
[AD-A140938] 18 p2899 N84-28393

SYMPTOMS
U SIGNS AND SYMPTOMS

SYNAPSES
The effects of hyperbaric elemental gases on the rate coefficient of K(+) influx in mammalian synaptosomes
04 p0570 N84-13754
Presynaptic elements involved in the maintenance of the neuromuscular junction 09 p1358 N84-18875
Time-dependent spinal cord changes following nonionizing microwave irradiation
20 p3258 N84-30678
Correlation of afferent activity and binocular receptive field properties
[AD-A143067] 21 p3457 N84-31938

SYNCHRONISM
NT BIT SYNCHRONIZATION
Software voting in asynchronous NMR (N-Modular Redundancy) computer structures
[NASA-CR-174488] 03 p0418 N84-12732
Impossibility of distributed consensus with one faulty process
[AD-A132503] 04 p0580 N84-13823
AFTI/F-16 flight test results and lessons
[NASA-TM-84920] 06 p0791 N84-15159
Fast asynchronous level 1 pre-trigger for electrons at L = 10/sup 33 cm-2 sec-1 06 p0913 N84-15933
Model mission study for laser synchronization of clocks
[SNIAS-221-CA/LP] 08 p1162 N84-17569
Form coefficient for the field of a superconducting synchronous machine
[AD-A134751] 08 p1226 N84-18010
Fundamental issues of multiple accessing
[AD-A136676] 10 p1481 N84-19675
Remote-ended time domain bandwidth measurements on installed regenerator sections of multimode optical fibre cable in the British Telecom Network
11 p1727 N84-21267
A model for asynchronous distributed computation
[AD-P002879] 13 p1978 N84-22840
Synchronization technique of data recorded on a multichannel tape recorder
[AD-A139570] 14 p2148 N84-23868
A study of reduced dependence in multi-valued sequential machines
[AD-P002326] 14 p2189 N84-24117
Short-pulse short-wavelength optical probe for laser plasma
[DE84-008336] 14 p2230 N84-24375
Performance analysis of the word synchronization properties of the outer code in a TDRSS decoder
[NASA-CR-173551] 15 p2319 N84-24821
Smart motor technology 15 p2349 N84-25096
Chopped molecular beam multiplexing system
[NASA-CASE-LAR-13174-1] 15 p2404 N84-25431
Development of a solid-state circuit breaker concept
[DE84-009110] 15 p2414 N84-25493
Time interval errors of a Flicker-noise generator
16 p2480 N84-25902
Structure of quasi-hyperbolic stochasticity in inertial self-excited oscillator 18 p2823 N84-27923
Specification and implementation of atomic data types
[AD-A141823] 19 p3078 N84-29529
Analytical investigation of synchrophasing as a means of reducing aircraft interior noise
[NASA-CR-3823] 21 p3491 N84-32123
Resource contention, synchronization, and information structure in distributed systems
[AD-A143037] 21 p3518 N84-32287
Digital multi-tapped delay line with automatic time-domain programming
[AD-D011136] 22 p3581 N84-32578
Applique rate converter
[AD-D011161] 23 p3751 N84-33777
Validation of a fault-tolerant clock synchronization system
[NASA-TP-2346] 23 p3816 N84-34198
Implementation of monitors with macros: A programming aid for the HEP and other parallel processors
[ANL-83-97] 23 p3817 N84-34200
Timing performance of phased-locked loops in optical pulse position modulation communication systems
[NASA-CR-173970] 23 p3824 N84-34253

SYNCHRONIZATION
U SYNCHRONISM

SYNCHRONIZERS
Analysis of the behavior of some types of synchronizer for numerical radio links in the presence of atmospheric multipath transmission
[FUB-57-1982] 10 p1483 N84-19692

SYNCHRONOUS DETECTORS
U CORRELATORS

SYNCHRONOUS EARTH OBSERVATORY SATELLITE
NT SMS 2

SYNCHRONOUS METEOROLOGICAL SATELLITE
NT SMS 2
The severity of the Brazilian freeze of 1981 as monitored in real time by satellite
[INPE-2586-PRE/234] 22 p3625 N84-32967

SYNCHRONOUS MOTORS
Research Reports of the Faculty of Engineering, no. 31
[DEC/1983/31] 21 p3476 N84-32034
Steady state performance of single-phase reaction motor 21 p3476 N84-32035

SYNCHRONOUS PLATFORMS
High resolution observations of low contrast phenomena from an Advanced Geosynchronous Platform (AGP)
17 p2712 N84-27266

SYNCHRONOUS SATELLITES
NT GOES SATELLITES
NT SIRIO SATELLITE
NT SMS 2
NT SYNCHRONOUS METEOROLOGICAL SATELLITE
Spacecraft thermal control selection for seven years of lifetime in synchronous orbit
[MBB-UR-584-82-OE] 02 p0185 N84-11200
Rain estimation from satellites: An examination of the Griffith-Woodley technique
[NASA-TM-84969] 04 p0566 N84-13735
Economic benefits of operational environmental satellites
[PB83-252932] 04 p0569 N84-13748
Earth coverage corrugated horns (44.5 GHz and 20.7 GHz)
[AD-A133241] 06 p0823 N84-15366
Development, design and testing of the engineering model of the electric propulsion system Radiofrequency Ion Thrust Assembly (RITA)
[BMFT-FB-W-83-017] 07 p0965 N84-16254
Geostationary meteorological satellite image navigation
[INPE-2772-RPE/435] 07 p1023 N84-16632
NOAA (National Oceanic and Atmospheric Administration) satellite programs briefing
[PB84-106349] 08 p1193 N84-17781
Issues in satellite packet video communication
[AD-A135942] 09 p1303 N84-18515

Partial level down in brightness of Geostationary Meteorological Satellite (GMS) infrared (IR) images caused by the Moon 09 p1347 N84-18600
Geostationary satellite with Sun pointing platform and geocentric payload 10 p1447 N84-19455
The Earth synchronous satellite carrier rocket [AD-A138504] 12 p1778 N84-21602
Study of advanced signal processing and calibration for IRES (infrared sensors) [REPT-458-DT-5] 12 p1782 N84-21628
Overcoming unobservability in 3-axis stabilization of satellites 15 p2267 N84-24810
Antenna tracking mechanism for geostationary satellites 15 p2348 N84-25091
Design of a CO2 laser transceiver package for space-to-space optical communication [BLEV-R-84.225] 16 p2482 N84-25913
Optimal position of solar arrays on sunsynchronous satellites [INPE-3010-RPE/454] 17 p2614 N84-26732
Interference problems for nongeostationary satellites [NASA-CR-173717] 18 p2902 N84-27780
Inclined geosynchronous satellites 19 p3119 N84-29820
Satellite telemetry [INPE-2654-PRE/384] 23 p3699 N84-33444
Temporal and latitudinal distribution of ionosphere irregularity in Brazil, data analysis of scintillations in very high frequencies and ionograms [INPE-3179-TDL/172] 23 p3796 N84-34061
Studies of lightning data in conjunction with geostationary satellite data 24 p3928 N84-34861

SYNCHROTRON RADIATION
Atomic photoelectron-spectroscopy studies using synchrotron radiation [DE83-011740] 01 p0037 N84-10235
Applications of vacuum technology to novel accelerator problems [DE83-012710] 01 p0143 N84-10942
Uses of synchrotron radiation [DE83-014431] 03 p0416 N84-12720
Design of doubly focusing, tunable (5 - 30 keV), wide-bandpass optics made from layered synthetic microstructures [DE83-015482] 03 p0441 N84-12897
Channel electron multiplier and optically coupled amplifier used as an incident-flux monitor [DE84-001451] 04 p0538 N84-13539
Standard format for data films — synchrotron radiation sources [DE84-000345] 04 p0616 N84-14068
Physics of the synchrotron model of cosmic gamma-ray bursts [DE84-000917] 04 p0622 N84-14104
Inverse comptonization vs. thermal synchrotron [DE84-001039] 04 p0622 N84-14105
Use of synchrotron radiation for electron identification at high luminosity 06 p0913 N84-15935
Structural studies at elevated pressure and reduced temperature using synchrotron radiation: Application to Ca.6La.1Th.1 [DE84-001793] 06 p0924 N84-16007
High accuracy gaseous X-ray detectors [DE84-003677] 07 p1006 N84-16538
X-ray holographic microscopy experiments at the Brookhaven synchrotron light source [DE84-004269] 10 p1499 N84-19796
Background research in support of the new grant proposal: Research consortium for X-ray topography on line X-19 at NSLS [DE84-004212] 10 p1589 N84-20414
The electronic structure of C(2x2)S/Fe(100): S 3p-level dispersions and linewidths. Revision [AD-A138124] 12 p1797 N84-21725
Topographic EXAFS [AD-A137116] 12 p1915 N84-22475
UV and VUV degradation of very high reflectivity mirrors for use in a storage ring free electron laser [AD-A136740] 13 p2043 N84-23255
An X-ray survey of variable radio bright quasars [NASA-TM-86094] 14 p2250 N84-24512
Cosmic rays and the emission line regions of active galactic nuclei [NASA-TM-86110] 16 p2582 N84-26561
Emission model of gamma-ray bursts [NASA-CR-173629] 17 p2781 N84-27656
Possibilities for X-ray holography using synchrotron radiation [DE84-010390] 18 p2944 N84-28063
High pressure electron resonance studies of electronic, magnetic, and structural phase transitions [DE84-006814] 18 p2941 N84-28653
Exploration of phase stability in the surfatron accelerator [DE84-011416] 20 p3193 N84-30280
Triply differential studies of atomic and molecular photoionization using synchrotron radiation [AD-A142834] 21 p3493 N84-32133
Monochromator for continuous spectrum X-ray radiation [DE84-014239] 23 p3751 N84-33781

SYNCHROTRONS
NT STORAGE RINGS (PARTICLE ACCELERATORS)
Advanced light source [DE83-012694] 01 p0143 N84-10940
High-Q perpendicular-biased ferrite-tuned cavity [DE83-017291] 04 p0529 N84-13478
ASPUN, Argonne super intense pulsed pallation neutron source [DE84-000311] 04 p0597 N84-13941
ARCHSIM: A proton-synchrotron tracking program, including longitudinal space charge [DE84-001335] 04 p0599 N84-13952
Decimetric gyrosynchrotron emission during a solar flare [NASA-TM-85123] 06 p0940 N84-16107
Physics with LAMPF 2 [DE83-016338] 07 p1073 N84-16972
LBL program of 1 meter long, 50 mm diameter bore, dipoles with fields greater than 8 tesla [DE84-002902] 07 p1073 N84-16973
Proposed second harmonic acceleration system for the intense pulsed neutron source rapid cycling synchrotron [DE84-003601] 08 p1230 N84-18036
Preliminary tests of a second harmonic RF system for the intense pulsed neutron source synchrotron [DE84-003595] 08 p1230 N84-18041
Cosmic rays and the emission line regions of active galactic nuclei [NASA-TM-86110] 16 p2582 N84-26561
High-current, low-energy synchrotrons and compressor rings [DE84-012104] 20 p3293 N84-30906

SYNDROMES
U SIGNS AND SYMPTOMS

SYNOPTIC METEOROLOGY
Mechanisms of monsoonal cyclogenesis 03 p0410 N84-12680
A subsynoptic environment associated with two inter-mountain severe thunderstorm events [DE83-014498] 03 p0412 N84-12694
Terminal forecast reference notebook for RAF Alconbury, England [AD-A133835] 05 p0708 N84-14640
Some effects of surface heating and topography on the regional severe storm environment 06 p0880 N84-15723
FGGE/SMMR-30 tape specification and shipping letter description [NASA-CR-170550] 06 p0935 N84-16074
Synoptic meteorology during the SNOW-ONE-A field experiment [AD-A134868] 08 p1191 N84-17762
Status for knowledge: Meteorological affected icing on aircraft in clouds [DFVLR-MITT-83-12] 08 p1191 N84-17763
FGGE level 3-B daily global analyses. Part 2: (Mar. 1979 - May 1979) [PB84-100270] 08 p1193 N84-17780
Subsynoptic variations in SEASAT winds [PB84-131697] 09 p1350 N84-18823
Reports from the German Meteorological Service, no. 163. Contribution to the classification of waste heat weather situations by means of thermal stratification. Upper Rhine model. Waste heat project, Upper Rhine, part 2 [ISBN-3-88148-206-7] 12 p1849 N84-22048
The vertical redistribution of a pollutant tracer due to cumulus convection 13 p2013 N84-23057
A study of Western North Pacific tropical storms and typhoons that intensify after recurvature [AD-A138792] 13 p2017 N84-23075
A SEASAT SASS simulation experiment to quantify the errors related to a + or - 3 hour intermittent assimilation technique [E84-10129] 14 p2168 N84-23967
Fiscal Year 1983 programs, fiscal year 1984 projections [PB84-158146] 14 p2181 N84-24066
Equatorial MST radars: Further consideration 17 p2683 N84-27063
Vector wind, horizontal divergence, wind stress and wind stress curl from SEASAT-SASS at one degree resolution 17 p2720 N84-27313
Synoptic classification and horizontal homogeneity of the refractive index structure function parameter in the surface layer [AD-A140825] 18 p2879 N84-28280
Studies of statistical techniques to evaluate weather modification. Volume 1: Reports of OSET [PB84-182906] 20 p3248 N84-30620
Variability of the convection field pattern in South Florida and its relationship to the synoptic flow [PB84-177393] 20 p3249 N84-30623
A synoptic case study analysis of the ocean temperature anomalies in the central Pacific region, 1976 - 1979 [AD-A142548] 20 p3251 N84-30631
Synoptic scale wind field properties from the SEASAT SASS [E84-10169] 21 p3426 N84-31732
Automatic drawing of synoptic charts [INPE-3146-RPE/458] 23 p3800 N84-34094
Synoptic meteorology in Antarctica [INPE-3201-NTE/222] 23 p3800 N84-34095
A synoptic study of the influence of extra-tropical latitude systems on the climatic variability in northeast Brazil [INPE-3225-PRE/576] 24 p3922 N84-34824
Utilization of satellite cloud information to diagnose the energy state and transformations in extratropical cyclones 24 p3925 N84-34846
Application of satellite data to tropic/subtropic moisture coupling 24 p3926 N84-34849

SYNTAX
NT WORDS (LANGUAGE)
The GIST behavior explainer [AD-A130730] 01 p0122 N84-10793
Differences in COBOL syntax between vendors' implementations [PB83-263392] 05 p0720 N84-14721
A case grammar approach to error correction in computer programs 05 p0721 N84-14725
FSCAN-83 report and user's manual [AD-A132740] 05 p0729 N84-14788
TREGRM-83 report and user's manual [AD-A132874] 05 p0729 N84-14789
Processes and the denotational semantics of concurrency 08 p1208 N84-17881
Interactive geometry modeling of space station conceptual designs 12 p1871 N84-22191
A syntax directed editor environment [AD-A138009] 12 p1879 N84-22248
ADA1: An ADA subset compiler for the AFIT syntax directed programming environment [AD-A138027] 12 p1880 N84-22251
Tools for specification validation and understanding [AD-A141079] 19 p3074 N84-29506
Syntax and semantics of a LINCS control monologue [DE84-011399] 20 p3277 N84-30605
Linguistics 22 p3684 N84-33359

SYNTHESIS
Experimental validation of the component synthesis method for predicting vibration of liquid-filled piping 10 p1510 N84-19882
A parallel method for natural texture synthesis [AD-A139889] 15 p2398 N84-25385
Synthesis of natural textures on 3-d surfaces [AD-A139869] 15 p2407 N84-25452
United States Air Force Academy, Department of Chemistry research: AY 1982-83 [AD-A141015] 18 p2808 N84-27828
A comparative study of linear array synthesis technique using a personal computer [AD-P003500] 21 p3383 N84-31468

SYNTHESIS (CHEMISTRY)
Large plate CdTe synthesis by sealed vessel transport [AD-A130947] 01 p0153 N84-11005
Electrochemical generation of N2O5 [DE83-013377] 02 p0190 N84-11235
Synthesis of energetic materials [AD-A130974] 02 p0200 N84-11299
Organotin piezo- and pyroelectric polymer films [DE83-009903] 02 p0201 N84-11306
Synthesis and properties of trisubstituted trinitrobenzenes. TATB analogs [AD-A131619] 02 p0203 N84-11322
New approach to the generation of metal-bearing, medium-pore, shape-selective zeolites for Fischer-Tropsch catalysis: Spectroscopic studies of zeolites [DE83-014344] 03 p0347 N84-12254
The role of the tetrapropylammonium template in the synthesis of zeolite ZSM-5 [CSIR-CENG-413] 04 p0493 N84-13236
Nuclear-medicine [DE84-000346] 04 p0571 N84-13759
Macrocycles containing tin. Syntheses of symmetrical macrocycles containing 2 or 4 diphenylstanna units [AD-A133697] 05 p0659 N84-14329
Fabrication of SiC, Si3N4 and AlN combustion synthesis [DE84-001766] 05 p0660 N84-14339
The chemistry of transition metal carbene complexes [AD-A133541] 06 p0801 N84-15225
Synthesis and characterization of some thermotropic nematic and cholesteric polymers 06 p0808 N84-15262

Chemistry, characterization and processing of IMC curing polymers
[AD-A133479] 06 p0810 N84-15274
New polyconjugated oxidation-reduction polymers, as well as a method and apparatus for electrochemical regeneration
[DE84-002613] 06 p0810 N84-15276
Theoretical and experimental determination of stress-strain of high-pressure equipment
[BLL-M-35287-(5828.4)] 06 p0856 N84-15574
Fabrication and properties of multilayer structures
[NASA-CR-174506] 06 p0922 N84-15997
Synthesis of N-substituted silanearnines: Monomeric precursors of silicon carbide-nitride fibers
06 p0929 N84-16033
Ultrahigh molecular weight aromatic siloxane polymers
06 p0930 N84-16042
On the mechanism of the biological conversion of citric acid. 6: Citrate-synthase is an acetyl-CoA enolase
[NRC/CNR-TT-2074] 07 p0965 N84-16256
physico-chemical investigation of some areas of fundamental significance to biophysics
[DE83-017404] 07 p1043 N84-16761
The electrochemical behaviour of titanium platinum alloys in anodic oxidation processes. 1: Kinetics and selectivity of the process of the combined formation of O2, H2S2O8 and O3 on the titanium-platinum alloy
[BLL-OA-TRANS-3093-(6196.3)]
06 p1126 N84-17336
Synthesis and characterization of binuclear Schiff base complexes of nickel, copper, and manganese
[AD-A135493] 08 p1132 N84-17360
Organometallics in high energy chemistry
[AD-A135715] 09 p1275 N84-18323
Synthesis and chemistry of energetic metallotetraazadienes
[AD-A136269] 09 p1278 N84-18344
Studies in boron chemistry
[AD-A135364] 09 p1280 N84-18360
Studies of polymer-bound macrocyclic polytertiary phosphines
[AD-A135718] 09 p1288 N84-18408
Synthesis of energetic prepolymers
[AD-A135770] 09 p1288 N84-18409
Protein and carotenoid synthesis and turnover in gravistimulated root caps 09 p1352 N84-18837
Small gravitationally elicited voltage transients in pea stems 09 p1352 N84-18838
Research in energetic compounds
[AD-A137484] 10 p1454 N84-19497
Polymerization of 3-methyl-2,5-Dibromothiophene utilizing n-butyl lithium and Copper(II) chloride
[AD-A136955] 10 p1468 N84-19585
Solar Thermal Technology Program: Polymer synthesis and characterization subtask, FY 1983
[DE84-000094] 10 p1530 N84-20022
Process for improving moisture resistance of epoxy resins by addition of chromium ions
[NASA-CASE-LAR-13226-1] 11 p1636 N84-20700
Synthesis of Co2+ and Ni2+ stabilized beta alumina
11 p1744 N84-21378
Development of an impact- and solvent-resistant thermoplastic composite matrix
[NASA-CR-172285] 12 p1789 N84-21668
Shock tube study of the fuel structure effects on the chemical kinetic mechanisms responsible for soot formation
[NASA-CR-174661] 12 p1790 N84-21677
Second Berkeley Catalysis and Surface Science Conference
[DE84-005536] 12 p1794 N84-21699
Material certification and material-certification effectiveness
[PB84-143270] 12 p1804 N84-21762
Polyphenylene ethers with imide linking groups
[NASA-CASE-LAR-12960-1] 13 p1962 N84-22749
Inorganic halogen oxidizers
[AD-A139127] 14 p2121 N84-23714
Polymer Science and Standards Divisions report, 1983
14 p2130 N84-23773
Mechanistic studies related to the metal catalyzed reduction of carbon monoxide to hydrocarbons
[DE84-007963] 15 p2268 N84-24729
Phenoxy resins containing pendent ethynyl groups and cured resins therefrom
[NASA-CASE-LAR-13262-1] 15 p2300 N84-24805
ECUT: Energy Conversion and Utilization Technologies program. Industry, university and research interest in the US Department of Energy ECUT biocatalysis research activity
[NASA-CR-173553] 15 p2361 N84-25167
Magnetic properties of Martian surface material
[NASA-CR-173491] 15 p2425 N84-25566
Synthesis of refractory compounds with gasless combustion reactions
[AD-A140296] 16 p2472 N84-25842

Syntheses and characterization of novel graphite intercalation compounds with inorganic fluorides
[AD-A140601] 17 p2619 N84-26762
Synthesis of polyheteroarylenes for highly heat-resistant materials
[AD-A140610] 17 p2626 N84-26804
Genetic control and phenotypic correction of cellular immune response to H-antigen of Salmonella typhimurium 17 p2740 N84-27400
Manufacture of DPFC-DMS polymer in the SKG range
[NASA-CR-166276] 18 p2817 N84-27888
An investigation into polymer design and synthesis for infrared energy absorption
[AD-A141265] 18 p2818 N84-27895
Organophosphazenes: 17: The synthesis of trimethylsilylacetylene and terminal acetylene derivatives of hexfluorocyclotriphosphazene
[AD-A141429] 19 p2963 N84-28906
A twisted P-C double bond: Synthesis and structure of a (Methylene)phosphine Fe-CO-4 complex
[AD-A141502] 19 p2964 N84-28907
Synthesis and structure of sulfur derivatives of a (methylene)phosphine
[AD-A141513] 19 p2964 N84-28909
New approaches to the synthesis of novel organosilanes
[AD-A141803] 19 p2965 N84-28913
Reactions of metal-metal multiple bonds. Part 14: Synthesis and characterization of triangulo-W3 and Mo2W-oxo capped alkoxide clusters. Comproportionation of M-M triple bonds, sigma(2)pi(4) and d(o) Metal-oxo groups: M triple bond M + M triple bond O yields M3(micron 3-O)
[AD-A141067] 19 p2967 N84-28930
Nitrolysis of the CN single bond and related chemistry of nitro and nitroso groups
[AD-A141825] 19 p2969 N84-28937
Sulfone-ester polymers containing pendent ethynyl groups
[NASA-CASE-LAR-13316-1] 19 p2996 N84-28987
Ethynyl-terminated ester oligomers and polymers therefrom
[NASA-CASE-LAR-13118-1] 19 p2997 N84-28988
Low cost acetylene terminated polymers
[AD-A140040] 19 p2998 N84-28996
Studies on B-(Pyrazol-1'-yl)pyrazaboles
[AD-A141115] 19 p2998 N84-28997
Organosilane polymers, 8
[AD-A141627] 19 p2999 N84-29004
Synthesis and evaluation of improved electron-beam and X-ray lithographic resist polymers
[AD-A141674] 19 p2999 N84-29006
Fluorinated polyurethanes
[AD-D011066] 19 p3000 N84-29011
Synthesis of energetic materials
[AD-A141495] 19 p3001 N84-29021
Synthesis of diazidodiesters 20 p3143 N84-29956
Organic azides as jet fuel additives: Synthesis of azides and micro-explosion characteristics of droplets
20 p3144 N84-29963
Macrocycles containing tin. Synthesis and structure of 1,10-Diphenyl-1,10-Distannabicycle (8.8.8)Hexacosane
[AD-A142703] 20 p3145 N84-29966
Synthesis and toughness properties of resins and composites 20 p3146 N84-29973
Thin film synthesis of superconducting chemical compounds
[AD-A142541] 20 p3148 N84-29992
Synthesis of refractory materials
[DE84-011045] 20 p3156 N84-30041
Self-propagating high-temperature synthesis of ceramics in vacuum
[AD-A142506] 20 p3162 N84-30079
High energy binders
[AD-A142347] 20 p3166 N84-30105
Promotion effects on the synthesis of higher alcohols
[DE84-009916] 20 p3186 N84-30109
Mechanistic studies of catalytic methanol synthesis
[DE84-008380] 21 p3359 N84-31308
Synthesis and characterization of phosphorus-containing polyamides and copolyamides based on 1methyl)-2,4- and -2,6-diaminobenzenes
[NASA-TM-85877] 22 p3543 N84-32431
A study of the effects of end-cap molecular species on environmental characteristics of polimidesulfones
[NASA-TM-86283] 22 p3544 N84-32437
Method for forming fibrous silicon carbide insulating material
[DE84-014858] 22 p3545 N84-32442
A study of Beta-hydroxyamines , and Beta-hydroxysulphides as corrosion inhibitors for metals
[BLL-T6313/BG/WH773/84] 22 p3552 N84-32487
Diamond synthesis from various graphites
[CSIR-TRANS-1749] 22 p3558 N84-32528
Protected ethynylated phenols
[AD-D011098] 22 p3560 N84-32544

EPR investigation of inclusions in cubic boron nitride crystals
[CSIR-TRANS-1752] 22 p3661 N84-33207
New materials from high temperature synthesis
[DE84-014125] 22 p3664 N84-33231
Dihalo-monaphospha-s-triazines and their derivatives
[AD-D011175] 23 p3714 N84-33545
Halo-substituted diphospha-s-triazines and their derivatives
[AD-D011178] 23 p3714 N84-33546
Multi-(OTeF5)-substituted fluorocarbons
[AD-D011171] 23 p3751 N84-33778
A method for obtaining new derived benzimidazoles
[AD-A144320] 24 p3867 N84-34507
Polyacetylene and K 24 p3868 N84-34511
Synthesis of monomers for the preparation of regiospecifically substituted poly(phenylacetylenes) as potential chemical detectors
[AD-A144690] 24 p3889 N84-34628

SYNTHESIZERS
Algorithmization and programming of operator activities for parametric synthesis of speech using the CT-1 system controlled by the MERA 303 minicomputer
[ISSN-0208-5658] 23 p3729 N84-33634

SYNTHETIC APERTURE RADAR
NT SIDE-LOOKING RADAR
Layout of a SAR sensor for Spacelab and satellite. Part 1: Design considerations for fundamental SAR parameters
[ESA-TT-802] 03 p0343 N84-12224
SAR speckle noise reduction using Wiener filter
03 p0393 N84-12568
SAR 580: Images for agricultural and forest survey. First results in middle Belgium 03 p0397 N84-12596
Measuring landscape information content and distribution on a SAR-580 image
03 p0397 N84-12598
First results of the evaluations of the European SAR 580 data for agricultural and forestry purposes in test site D6, Freiburg (West Germany) 03 p0398 N84-12599
Reflection and identification studies applied to terrain imaging radar
[AD-A132401] 04 p0520 N84-13419
Study on extremizing adaptive systems and applications to synthetic aperture radars
[AD-A133945] 05 p0667 N84-14385
A general measurement design philosophy for the Kalman filter estimation with special application given to the imaging radar autofocus update
[AD-A133895] 05 p0734 N84-14819
Analysis of data acquired by synthetic aperture radar over Dade County, Florida, and Acadia Parish, Louisiana
[E84-10067] 06 p0865 N84-15636
Remote sensing with spaceborne synthetic aperture imaging radars: A review 06 p0867 N84-15648
Ocean wave imaging by SAR
06 p0867 N84-15649
Propagation effects in satellite-borne synthetic aperture radars 06 p0867 N84-15650
Application of the Gibbs distribution to image segmentation
[AD-A133406] 06 p0901 N84-15850
Spaceborne Imaging Radar Symposium
[NASA-CR-173186] 07 p0967 N84-16390
Geologic application of spaceborne radars
07 p0967 N84-16391
Substance geology of the western desert in Egypt and Sudan revealed by Shuttle Imaging Radar (SIR-A)
07 p0967 N84-16392
Use of coregistered radar, visible and IR images for geologic remote sensing 07 p0967 N84-16393
Spaceborne SAR sensor architecture
07 p0967 N84-16394
Shuttle Imaging Radar: A/B sensors
07 p0967 N84-16395
Microstrip antennas for SAR applications
07 p0967 N84-16396
Slotted waveguide array antennas for spaceborne SAR applications 07 p0967 N84-16397
Solid state transmitters for spaceborne radars
07 p0968 N84-16398
SAR calibration: A technology review
07 p0968 N84-16399
Stereo imaging with spaceborne radars
07 p0968 N84-16400
SIR-A aids regional geology: Comparisons of SIR-A imagery with SLAR and LANDSAT over Guyana, Venezuela, Nicaragua and Mali
07 p0968 N84-16401
Use of radar image texture in geologic mapping
07 p0968 N84-16402
Mapping and monitoring renewable resources with space SAR 07 p0968 N84-16403
Crop identification of SAR data using digital textural analysis 07 p0968 N84-16404
The SIR-A atlas 07 p0969 N84-16405

Processor architecture for airborne SAR systems
07 p0989 N84-16406
Performance evaluation of the JPL interim digital SAR processor 07 p0989 N84-16407
Real-time digital processing of SAR data
07 p0989 N84-16408
A fast, programmable hardware architecture for spaceborne SAR processing 07 p0989 N84-16409
Acousto-optic/CCD real-time SAR data processor
07 p0989 N84-16410
Real-time synthetic aperture radar image formation utilizing an electrooptic spatial light modulator
07 p0989 N84-16411
Spaceborne SAR and sea ice
07 p0990 N84-16412
Radar image interpretation techniques applied to sea ice geophysical problems 07 p0990 N84-16413
Observations of internal waves in the Gulf of California by SEASAT SAR 07 p0990 N84-16414
900 km of digital ocean wave spectra from the SEASAT SAR 07 p0990 N84-16415
Mechanisms for SAR imaging of ocean surface phenomena: Theory and experiment
07 p0990 N84-16416
Spaceborne radar research in the 1980's
07 p0990 N84-16417
Radar activities of the DFVLR Institute for Radio Frequency Technology 07 p0990 N84-16418
European Space Agency, ERS-1 program
07 p0990 N84-16419
A user's manual for the NASA/JPL synthetic aperture radar and the NASA/JPL L and C band scatterometers
[NASA-CR-173209] 07 p0992 N84-16428
Sea height information from complex SAR data
[NASA-CR-173199] 07 p1060 N84-16872
A novel algorithm for sea surface height estimation using complex SAR data 07 p1060 N84-16873
Flight test of a synthetic aperture radar antenna using STEP 08 p1113 N84-17237
Multifrequency synthetic aperture radar antenna comparison study — for remote sensing
[NASA-CR-171736] 08 p1143 N84-17434
APQ-102 imaging radar digital image quality study
[NASA-CR-171738] 08 p1143 N84-17435
Application of a feature selection technique to samples of high resolution synthetic aperture radar imagery
[AD-A135006] 08 p1143 N84-17438
Workshop on active microwave sensor design
08 p1177 N84-17667
Interpretation of a SAR (Synthetic Aperture Radar) image of the Bay of Biscay
[AD-A135981] 09 p1303 N84-18517
The Grand Banks experiment: A satellite/aircraft/ship experiment to explore the ability of specialized radars to define ocean fronts
[AD-A136181] 09 p1304 N84-18522
Deterministic and random phase noise of oscillation — synthetic aperture radar
[DFVLR-MITT-83-11] 10 p1483 N84-19695
Study on extremizing adaptive systems and applications to synthetic aperture radars
[AD-A137725] 11 p1643 N84-20744
Technical addendum to the study: ERS-1 Mission, Fucino Station. SAR processor based upon EMMA architecture
[ERI-171] 12 p1809 N84-21791
Measurement of ocean surface winds by SEASAT synthetic aperture radar
[AD-A136392] 12 p1836 N84-21971
Real-time synthetic aperture radar processing
12 p1906 N84-22416
Propagation effects in satellite-based synthetic aperture radars
[AD-A138681] 13 p1983 N84-22873
Evaluation of SIR-A (Shuttle Imaging Radar) images from the Tres Marias region (Minas Gerais State, Brazil) using derived spatial features and registration with MSS-LANDSAT images
[E84-10148] 16 p2508 N84-26096
Image quality of passive and active scanners
[MBB-UA-684-83-O] 16 p2564 N84-26449
Project SERGE: Brazil referential field data for the SIR-A experiment
[INPE-2973-NTE/210] 17 p2711 N84-27259
SPECTRASAT: A concept for the collection of global directional wave spectra 17 p2712 N84-27265
Ocean wind field measurement performance of the ERS-1 scatterometer 17 p2713 N84-27273
Theory and measure of certain image norms in SAR
17 p2713 N84-27274
Synthetic aperture radar images of ocean waves, theories of imaging physics and experimental tests
17 p2714 N84-27275
Optimum backscatter cross section of the ocean as measured by synthetic aperture radars
17 p2714 N84-27276
Tracking ocean wave spectrum from SAR images
17 p2714 N84-27277
SAR imagery of ocean-wave swell traveling in an arbitrary direction 17 p2714 N84-27278
Modeling of SAR signatures of shallow water ocean topography 17 p2718 N84-27302
On the response to ocean surface currents in synthetic aperture radar imagery 17 p2718 N84-27304
Analysis of SEASAT SAR imagery collected during the JASIN experiment
[AD-A140584] 17 p2721 N84-27320
Synthetic aperture radar target simulator
[NASA-CASE-NPO-15024-1] 18 p2827 N84-27951
Theory of digital imaging from orbital synthetic aperture radar
[AD-A141152] 18 p2828 N84-27957
Aircrew performance with simulated advanced radar and FLIR (Forward Looking Infrared) sensors in single- and two-place crew stations
[AD-P003269] 18 p2907 N84-28434
A SAR system test unit for verification of user requirements
[BMFT-FB-W-84-002] 19 p3009 N84-29074
The missing cone problem in computer tomography and a model for interpolation in synthetic aperture radar
[AD-A142421] 20 p3174 N84-30157
Summary of SAR (Synthetic Aperture Radar) ocean wave data archived at ERIM (Environmental Research Institute of Michigan)
[AD-A142620] 20 p3251 N84-30633
Synthetic aperture radar simulation
[AD-P003474] 21 p3512 N84-32246
Development and characterization analysis of a radar polarimeter
[NASA-CR-175259] 22 p3598 N84-32785
Development of color criteria for advanced displays
[AD-A143246] 22 p3630 N84-33006
Development of a slotted waveguide array panel for SAR antenna: Electrical design and testing
[IEC-MO-80/11] 23 p3732 N84-33656
Simple MTI using synthetic aperture radar — moving target imaging (MTI) 23 p3765 N84-33668
A SAR for real-time ice reconaissance
23 p3765 N84-33869
Parametric analysis of synthetic aperture radar data acquired over truck garden vegetation
23 p3767 N84-33878
The X, and L-band radar backscatterer analysis of agricultural crops in West Germany
23 p3767 N84-33879
On the SAR response of agricultural targets in a northern prairie environment 23 p3770 N84-33896
The information content of spaceborne SAR ocean image spectra 23 p3771 N84-33905
Comparison of ocean wave energy measured by SEASAT synthetic aperture radar with SAR surface wave imaging theories 23 p3771 N84-33906
SAR measurement of sea ice properties during Marginal Ice Zone Experiment (MIZEX) 83
23 p3772 N84-33911
Analysis of bistatic SAR signatures
23 p3777 N84-33947
An R and D model of a synthetic aperture radar antenna 23 p3777 N84-33949
Optimizing image quality for SAR
23 p3777 N84-33950
Measurement of geometric distortion in airborne SAR images 23 p3778 N84-33951
Compact receivers for Shuttle Imaging Radar (SIR)-B SAR mission 23 p3778 N84-33953
Digital processing and absolute calibration of a stripmap synthetic aperture radar 23 p3778 N84-33954
Spectrasat: A concept for the collection of global directional wave spectra 23 p3782 N84-33981
Conceptual design of satellite SAR
23 p3782 N84-33985
A case study of spaceborne synthetic aperture radar system design for the Earth Resources Satellite
23 p3782 N84-33987
Some test results of synthetic aperture radar transmitter and receiver — satellite SAR 23 p3783 N84-33988
ERS synthetic aperture radar design
23 p3783 N84-33989
Verification techniques for satellite-borne synthetic aperture radars 23 p3783 N84-33992
Direct and inverse methods for ocean-wave imaging by SAR 23 p3783 N84-33995
Pipelined digital SAR azimuth correlator using hybrid FFT-transversal filter
[NASA-CASE-NPO-15519-1] 24 p3893 N84-34651

SYNTHETIC APERTURES
Synthesis of antennas with weak superdirectivity
22 p3565 N84-32581

SYNTHETIC FIBERS
NT DACRON (TRADEMARK)
NT GLASS FIBERS
NT NYLON (TRADEMARK)
Polyester fiber reinforcement of thermosetting molding compounds
[BMFT-FB-T-83-155] 05 p0661 N84-14342
Surface acoustic admittance and absorption of highly porous, layered, fibrous materials
17 p2762 N84-27545

SYNTHETIC FUELS
NT GASOHOL (FUEL)
Synthetic fuels from US oil shales: A technical and economic verification of the HYTORT PROCESS
[DE83-005440] 01 p0053 N84-10345
Thermophysical properties for synthetic fuels
[DE83-016588] 02 p0191 N84-11239
Spray combustion of synthetic fuels. Phase 2. Spray-combustion phenomena
[DE83-014541] 02 p0191 N84-11242
Evaluation of unthrottled combustion system options for light duty applications with future syncrude derived fuels
[DE83-017047] 03 p0358 N84-12327
Gasogen for automobile use
[DE84-000712] 06 p0613 N84-15291
Alternative fuels for general aviation
[GPO-27-618] 08 p1139 N84-17409
Microbial deterioration of hydrocarbon fuels from oil shale, coal and petroleum. III: Inhibition of fungi by fuels from coal
[AD-A137177] 10 p1469 N84-19596
Synfuel modified diesel
[DE84-002189] 10 p1502 N84-19819
Vaporization of synthetic fuels
[DE84-006556] 12 p1803 N84-21755
Providing R and D (Research and Development) test fuels from alternate energy sources: An assessment of options
[NASA-CR-173427] 14 p2133 N84-23783
What's so hot about formulated synthetics?
14 p2155 N84-23909
CO + H/sub 2 reaction over nitrogen-modified iron catalysts
[DE84-009046] 15 p2288 N84-24727
Predicted TF41 performance with the AGARD research fuel 15 p2293 N84-24763
Energy technology characterizations handbook: Environmental pollution and control factors, third edition
[DOE/EP-0093] 18 p2511 N84-26117
US energy: Aviation perspective
[AD-A137766] 18 p2821 N84-27910
Fundamental research for production of high polymers on synthesis gas basis
[BMFT-FB-T-84-075] 19 p3001 N84-29016
Two-stage process for conversion of synthesis gas to high quality transportation fuels
[DE84-009624] 20 p3166 N84-30108
Phase and volumetric studies for methane/synthesis gas separations: The hydrogen-carbon monoxide-methane system
[PB84-214394] 21 p3375 N84-31417
Development of accelerated fuel-engine qualification procedures
[AD-A143845] 23 p3693 N84-33406

SYNTHETIC RESINS
NT ACRYLIC RESINS
NT ADDITION RESINS
NT EPOXY RESINS
NT FURAN RESINS
NT KEVLAR (TRADEMARK)
NT NYLON (TRADEMARK)
NT PHENOLIC EPOXY RESINS
NT PHENOLIC RESINS
NT POLYAMIDE RESINS
NT POLYESTER RESINS
NT POLYETHER RESINS
NT POLYMETHYL METHACRYLATE
NT THERMOPLASTIC FILMS
NT THERMOPLASTIC RESINS
NT THERMOSETTING RESINS
NT VINYL COPOLYMERS
Performance of the perfluorocarbon liquid/plastic film capacitor technology in repetitive discharge pulse power service
[DE83-012502] 01 p0073 N84-10477
Surface embrittlement of polyethylene pipe grade resins
[PB84-181973] 17 p2627 N84-26811
High-performance, low-energy-curing resins
[AD-A141524] 19 p2998 N84-29000
Electrically conducting poly(vinyl acetate)
[AD-A143199] 22 p3559 N84-32538
Polymers as substitutes for metal and lumber
24 p3867 N84-34510

SYNTHETIC RUBBERS
NT CHLOROPRENE RESINS
NT ELASTOMERS
NT VITON
NT VULCANIZED ELASTOMERS
Forced vibration of Timoshenko beams of multimodular materials
[AD-A130372] 01 p0095 N84-10617
Rubber-modified epoxy and glass laminates for application to naval ship structures
[AD-A133305] 06 p0798 N84-15204
Effects of fuels on the physical properties of nitrile rubber O-rings
[AD-A136647] 10 p1470 N84-19599
Structure-borne sound transfer functions of a Dunlop Super "D" flexible mounting
[TPD-408.870/1] 17 p2783 N84-27552
Process for renovating aircraft tires tested
18 p2790 N84-27712
Physical techniques for profiling heterogeneous polymer degradation
[DE84-013807] 22 p3560 N84-32547
SYSTEM EFFECTIVENESS
Flight evaluation results from the general-aviation advanced avionics system program
[NASA-TM-84397] 01 p0007 N84-10042
Use of scientific potential in industry discusses
01 p0055 N84-10353
Investigation of water rotor turbofans for Cruise Missile engines, volume 2
[AD-A131168] 02 p0180 N84-11173
Integrated logistic supportability (Aviation materiel)
[AD-A132967] 04 p0478 N84-13146
Optical methods of measuring loudspeaker diaphragm movement
[BBC-RD-1983/13] 04 p0517 N84-13396
Evaluation of the effects of lateral and longitudinal aperiodic modes on helicopter instrument flight handling qualities
[AD-A134116] 05 p0629 N84-14135
Summary and overview 05 p0696 N84-14569
Report of the Faculty Working Group on Computers
[AD-A132706] 05 p0729 N84-14784
The performance of 16000 wire mini-drift MWPC system 06 p0912 N84-15922
Analysis of tutored videotape instructional delivery system
[AD-A133441] 07 p1050 N84-16800
E/O (Electro-Optical) augmentation environmental temperature test
[AD-A134296] 07 p1075 N84-16988
Semiannual report to Congress on the effectiveness of the civil aviation security program
[AD-A134860] 08 p1100 N84-17156
Aircrew training devices: Utility and utilization of advanced instructional features. Phase I: Tactical Air Command
[AD-A135052] 08 p1106 N84-17190
Design and manufacturing technology of radioelectronic equipment, chapter 5
[AD-A136509] 09 p1307 N84-18545
System engineering management guide
[AD-A136020] 09 p1398 N84-19129
A set of organizational-climate measures: Internal consistency, factor structure, and predictive power
[AD-A135352] 09 p1398 N84-19132
Materials implications of advanced thermal and kinetic energy threats 10 p1508 N84-19672
Benchmarking relational database machines' capabilities in supporting the database administrators' functions and responsibilities
[AD-A137413] 10 p1593 N84-20437
Computation of linear communication antennas
[PB84-143502] 11 p1645 N84-20755
Quantitative evaluation of 3 DBMS: ORACLE, SEED AND INGRES 11 p1748 N84-21410
Enhancement and verification of the Navy CASEE (Comprehensive Aircraft Support Effectiveness Evaluation) model (calendar year 1983 task)
[AD-A138516] 12 p1764 N84-21505
Methodology for benefit analysis of CAD/CAM (Computer-Aided Design/Computer-Aided Manufacturing) in USN shipyards
[AD-A138396] 12 p1882 N84-22270
Software interoperability and reusability, volume 1
[AD-A138477] 12 p1883 N84-22276
Software interoperability and reusability. Volume 2: Guidebook for software quality measurement
[AD-A138478] 12 p1884 N84-22277
Optical engineering at Los Alamos: A history
[DE83-009905] 12 p1908 N84-22431
The acquisition management information system: Friend or foe?
[AD-P002751] 13 p2050 N84-23298
Skunkworks 81 revisited: An update on acquisition strategy
[AD-P002759] 13 p2051 N84-23306
Large firm efficiency, concentration, and profitability in defense markets
[AD-P002810] 13 p2059 N84-23356
Defense systems acquisition review process: A history and evaluation
[AD-P002822] 13 p2061 N84-23367
Improving the effectiveness of award fee contracts for program management support services
[AD-P002827] 13 p2062 N84-23372
A survey of contractor productivity measurement practices
[AD-P002831] 13 p2063 N84-23376
The Score technique: An analytical approach for assessing the results of manufacturing reviews
[AD-P002838] 13 p2064 N84-23383
Technical and economic indicators for industrial technological institutes 13 p2065 N84-23392
Operation of communications satellite systems during crisis and conflict
[AD-P002150] 14 p2138 N84-23815
Distributed database performance modeling
[AD-P002157] 14 p2139 N84-23823
Designing efficient communication networks
[AD-A139190] 14 p2202 N84-24219
An overview of productivity improvement efforts in Army organizations
[AD-A138589] 14 p2248 N84-24490
The design and development of a solar tracking unit
15 p2348 N84-25090
A guide to macro and micro computer performance evaluation
[AD-A140127] 15 p2389 N84-25329
Human factors engineering. Part 1: Test procedures
[AD-A140343] 16 p2539 N84-26302
Cut-off rate calculations for the outer channel in a concatenated cooling system
[NASA-CR-173612] 16 p2541 N84-26312
AN/TPN-19 improvements program management plan
[AD-A140728] 17 p2605 N84-26690
Use of refractory coatings to protect metal gainst high-temperature corrosion
[BLL-M-35543-(5828.4)] 17 p2621 N84-26772
Detonation parameters for Australian high-explosives composition
[MRL-R-822] 17 p2628 N84-26812
The efficiency of wood as a passive shield for particles and photons of 0.5 to 4.6 MeV between 940 and 377 mb
[INPE-2900-TDL/146] 17 p2764 N84-27554
Control systems
[AD-A140901] 17 p2771 N84-27582
Requirements for a transformerless power conditioning system
[NASA-CR-173742] 18 p2833 N84-27961
A parametric analysis of HELSTAR
[AD-A141143] 18 p2846 N84-28071
Wavelength selection for a ground based free electron laser weapon system
[AD-A141157] 18 p2846 N84-28072
Special pyrheliometer shroud development
18 p2875 N84-28255
Environments for evaluating performance of C3I (Command, Control, Communications, and Intelligence) systems
[AD-P003237] 18 p2902 N84-28404
Department of defense trusted computer system evaluation criteria
[AD-A141304] 18 p2917 N84-28498
Passive and active circuits for vertical plasma stabilization
[DE84-006857] 18 p2933 N84-28599
The system of time service for ocean bottom seismic observations 19 p3060 N84-29414
Transmission efficiency measurements and correlations with physical characteristics of the lubricant
[NASA-TM-83740] 20 p3195 N84-30293
Variability of practice and the transfer of training of motor skills
[AD-A142896] 21 p3459 N84-31942
Determining cost and training effectiveness tradeoffs for trainer design: Test of an experimental model
[AD-P003455] 21 p3509 N84-32232
An evaluation of the system 2000 data base management system for use in major item system mapping
[DE84-013130] 21 p3519 N84-32296
Conceptual design of a noncontacting power transfer device for the ASPS Vernier system
[NASA-CR-172238] 22 p3581 N84-32677
Review of flow battery testing at Sandia
[DE84-011186] 22 p3589 N84-32734
Solar photochemical process engineering for production of fuels and chemicals
[NASA-CR-173910] 22 p3617 N84-32917
Design, test, and evaluation of an Air Force environmental model and data exchange
[AD-A143226] 22 p3636 N84-33060
SYSTEM FAILURES
Neutronic and thermal design considerations for heat-pipe reactors
[DE83-012690] 01 p0145 N84-10954
FINDS: A fault inferring nonlinear detection system. User's guide
[NASA-CR-172199] 02 p0178 N84-11156
A study of software failures and recovery in the MVS operating system
[AD-A132661] 05 p0728 N84-14783
Testability of interconnection structures
[AD-A135431] 08 p1168 N84-17607
Design and manufacturing technology of radioelectronic equipment, chapter 5
[AD-A136509] 09 p1307 N84-18545
Optimally robust redundancy relations for failure detection in uncertain systems
[NASA-CR-173166] 09 p1377 N84-18997
Efficient computation of the k-terminal reliability of directed acyclic networks
[AD-A136900] 10 p1570 N84-20286
A multivariate autoregressive display monitoring model
[NLR-MP-83033-U] 15 p2384 N84-25296
Stochastic models for common failures of components
[AD-A141490] 19 p3033 N84-29237
High speed low-cost ways to get messages from a sender to a receiver when some channels linking them become inoperative
[AD-A142831] 21 p3386 N84-31488
Intelligent instruments for process measurement techniques (monitoring of sensors)
[BMFT-FB-T-84-078] 21 p3407 N84-31611
Availability of the DSN telemetry data system and its major elements, including the TWM assemblies
22 p3575 N84-32639
SYSTEM GENERATED ELECTROMAGNETIC PULSES
Electron charging and SGEMP (System Generated Electromagnetic Pulse) studies on satellite dielectrics
[AD-A143012] 21 p3353 N84-31268
SYSTEM IDENTIFICATION
Lectures of a Flight Mechanics Conference — conferences
[DFVLR-MITT-83-05] 07 p0944 N84-16120
Influence of measuring section parameters on the results of a flight-mechanical system identification
07 p0944 N84-16125
Current algebras and the identification problem
[MC-BW-167/83] 07 p1066 N84-16923
An on-line equivalent system identification scheme for adaptive control
[NASA-TM-85737] 08 p1105 N84-17185
Practical aspects of modeling aircraft dynamics from flight data 11 p1616 N84-20575
Applications of model structure determination to flight test data 11 p1616 N84-20576
SYSTEMS
Space station needs, attributes and architectural options. Volume 1, attachment 2: Supporting data and analysis reports
[NASA-CR-173336] 09 p1270 N84-18294
Space Station needs, attributes and architectural options. Volume 2, book 2, part 2, Task 2: Information management system
[NASA-CR-173317] 09 p1271 N84-18301
Vacuum outgassing of various materials
[DE84-004812] 11 p1626 N84-20644
One method of assessing the validity of organizational-systems modelling
[BLL-M-35605-(5828.4)] 21 p3508 N84-32222
SYSTEMS ANALYSIS
NT SYSTEM IDENTIFICATION
Computer-Aided Design and Analysis of Digital Guidance and Control Systems
[AGARD-LS-126] 01 p0014 N84-10093
Fundamentals of analysis for digital control systems
01 p0014 N84-10094
Performance and robustness aspects of digital control systems 01 p0015 N84-10096
Systematic computer aided control design
01 p0015 N84-10100
Mobile radio alternative systems study. Volume 2: Terrestrial — rural areas
[NASA-CR-168063] 01 p0061 N84-10403
Technical and economic investigations of a low-temperature Rankine-cycle heat engine
[DE83-016757] 01 p0091 N84-10598
Hard CPU related failures and system activity: Measurement and modelling
[AD-A130821] 01 p0119 N84-10772

Survey of error propagation in systems
[DE83-009817] 01 p0134 N84-10878
Theoretical analysis of nonreciprocal electromagnetic surface wave devices
[AD-A131630] 02 p0209 N84-11368
APPLIB user's manual
[DE83-016238] 02 p0274 N84-11794
Optical analysis of a gimballed mirror system
[DE83-016576] 02 p0295 N84-11934
Network design tool for EHF satellite communications networks
[AD-A131812] 03 p0361 N84-12349
Center for electronics and electrical engineering technical progress bulletin covering signals and systems program, April 1982 - September 1982
[PB83-241158] 03 p0369 N84-12405
Algorithms for automated diagnosis of faults in physical plant
[DE84-000192] 04 p0582 N84-13841
Benchmarking the join operations of relational database machines
[AD-A132312] 04 p0584 N84-13861
Fire management-suppression system-concepts relating to aircraft cabin fire safety
[FAA-CT-82-134] 05 p0628 N84-14130
Study of a gravitational antenna coupled to a resonant capacitive transducer: Equivalent circuit and noise spectra
[IFSI-82-3] 05 p0677 N84-14450
Reliability programs for nonelectronic designs, volume 2
[AD-A133625] 05 p0689 N84-14528
A guideline for the planning and system requirement determination of a computer based educational system
[AD-A133629] 06 p0898 N84-15829
Statistical analysis of a debugging model
06 p0931 N84-16048
Information needs and system specifications for the B-1B executive information system
[AD-A134424] 07 p1065 N84-17054
Aircrew Automated Escape Systems (AAES) In-service Usage Data Analyses, volume 2
[AD-A134834] 08 p1100 N84-17155
STEP mechanical systems 08 p1109 N84-17213
A stochastic network formulation for performance assessment and life-cycle modeling in complex system design
[AD-A135337] 08 p1219 N84-17960
An approach to the design of a management information system: Development procedure for the Indonesian defense logistics staff
[AD-A134974] 08 p1240 N84-18108
Space station needs, attributes and architectural options study. Volume 4: Architectural options, subsystems, technology and programmatics
[NASA-CR-173331] 09 p1266 N84-18268
Space station needs, attributes and architectural options. Part 1: Summary
[NASA-CR-175382] 09 p1267 N84-18270
Space station needs, attributes and architectural options study. Briefing material: Final review and executive summary
[NASA-CR-173321] 09 p1267 N84-18273
Space Station needs, attributes and architectural options. Volume 2, book 1, part 1: Mission requirements
[NASA-CR-173312] 09 p1270 N84-18296
Space Station needs, attributes and architectural options. Volume 2, book 2, part 3: Communication system
[NASA-CR-173318] 09 p1271 N84-18302
Interactive communication systems simulation model (ICSSM) extension
[AD-A135704] 09 p1302 N84-18509
Effects of assuming independent component failure times, if they are actually dependent, in a series system
[AD-A136567] 09 p1327 N84-18667
Software development guidelines
[NASA-CR-171748] 09 p1366 N84-18919
Program mutation: An approach to software testing
[AD-A135775] 09 p1368 N84-18933
Optimally robust redundancy relations for failure detection in uncertain systems
[NASA-CR-173166] 09 p1377 N84-18997
A new approach to synthesis problems in linear system theory
[PB84-124742] 09 p1379 N84-19014
Computer-aided analysis of reconstructability analysis of many-dimensional relations
[PB84-127935] 09 p1380 N84-19016
Altering the application of the traditional systems lifecycle
[DE84-000052] 10 p1505 N84-19837
NASA TM processing system description and status
10 p1524 N84-19979
Review and synthesis of problems and directions for large scale geographic information system development
[NASA-CR-166563] 10 p1525 N84-19988
The behavioral demonstrator: A requirements specification executor
[AD-A136944] 10 p1555 N84-20189
Markovian models of a transactional system supported by checkpointing and recovery strategies. Part 1: A model with state-dependent parameters
[EUT-82-E-128-PT-1] 10 p1566 N84-20260
Markovian models of a transactional system supported by checkpointing and recovery strategies. Part 2: AA model with a specified number of transactions between checkpoints
[EUT-82-E-129-PT-2] 10 p1566 N84-20261
The subjective function approach for analyzing systems
[RAND/P-6883] 11 p1718 N84-21206
Review and verification of CARE 3 mathematical model and code
[NASA-CR-166096] 12 p1876 N84-22227
Interactive computer graphics for system analysis
[AD-A136025] 12 p1879 N84-22250
Methodology for benefit analysis of CAD/CAM (Computer-Aided Design/Computer-Aided Manufacturing) in USN shipyards
[AD-A136396] 12 p1882 N84-22270
Upper and lower bounds for semi-Markov reliability models of reconfigurable systems
[NASA-CR-172340] 12 p1897 N84-22353
Reliability analysis using network simulation
[DE84-006990] 12 p1904 N84-22397
Modification to the advanced degree requirements information system
[AD-A136167] 12 p1918 N84-22489
Proceedings of the 6th MIT/ONR (Massachusetts Institute of Technology/Office of Naval Research) Workshop on C3 (Command, Control, and Communications) Systems
[AD-A136614] 13 p1977 N84-22635
The design of information structures: Basic allocation strategies for organizations
[AD-P002909] 13 p1981 N84-22661
Current research in the Software Engineering Laboratory (SEL) 13 p2026 N84-23138
An approach to software baseline generation
13 p2026 N84-23149
Mortality and spareparts: A conceptual analysis
[AD-P002826] 13 p2062 N84-23371
Recent developments in the measurement of time-dependent pressures 14 p2100 N84-23601
Nondestructive Evaluation Technology Working Group report (IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability study)
[AD-A139484] 14 p2156 N84-23919
On system diagnosis with multivalued test outcomes
[AD-P002375] 14 p2195 N84-24166
A methodology for benchmarking relational database machines
[AD-A139104] 14 p2202 N84-24217
Computer science and technology: Guide on data models in the selection and use of database management systems
[PB84-162189] 14 p2206 N84-24243
Manned geosynchronous mission requirements and systems analysis study extension
[NASA-CR-173547] 15 p2261 N84-24700
A laboratory approach to technology transfer: The passive solar cooling system concept example
16 p2516 N84-26152
Space systems environmental interactions technology program
[AD-P002125] 16 p2525 N84-26211
Evaluating the response of complex systems to environmental threats: The Sigma 2 method
[UCRL-53399] 16 p2551 N84-26366
Project management in the 80's
[MBB-UR-631-83-O] 16 p2564 N84-26454
System requirements for a SCPC FM low capacity Earth station — Brazil
[INPE-2943-NTE/207] 17 p2652 N84-26958
Status report on asymptotic methods for the analysis, estimation, and control of stochastic dynamic systems
[AD-A140931] 18 p2925 N84-28547
The dynamics and control of large flexible space structures, part 7
[NASA-CR-173781] 19 p2981 N84-28892
Interactive systems design and synthesis of future spacecraft concepts
[NASA-TM-86254] 19 p2981 N84-28893
The exit problem for a stochastic dynamical system in a domain with almost everywhere characteristic boundaries
[CWI-AM-R8403] 19 p3092 N84-29635
Adaptive modeling and real-time simulation
[AD-A141648] 19 p3095 N84-29856
A system dynamics approach to measuring the value of information
[AD-A141051] 19 p3115 N84-29794
Study of the FAA (Federal Aviation Administration) program to modernize maintenance operations
[AD-A142295] 20 p3125 N84-29848
The heat pipe exchanger with controllable heat exchanging area 20 p3169 N84-30124
Performance of digital communications over selective fading channels
[AD-A142427] 20 p3174 N84-30158
Performance measurement in a distributed processing environment
[AD-A142410] 20 p3266 N84-30722
Operating system interface for Ada (trademark) instructors
[AD-P003433] 20 p3272 N84-30765
Analysis and control of a class of stiff linear distributed systems
[AD-A142364] 20 p3280 N84-30821
A field study of Air Force organization structures
[AD-A142389] 20 p3312 N84-31035
System planning tool to measure cost avoidance resulting from independent assessment techniques applied to test program software development
[AD-P003588] 21 p3340 N84-31193
Method for designing future weapons systems: Example of the very short distance ground-air systems
21 p3350 N84-31250
Space Station Systems Analysis Study. Volume 1: Executive summary, part 1 and 2
[NASA-CR-161590] 21 p3352 N84-31263
Space Station Systems Analysis Study. Volume 2: Program review report
[NASA-CR-161231] 21 p3352 N84-31264
Space Station Systems Analysis Study. Volume 2: Program options, book 1, parts 1 and 2
[NASA-CR-161927] 21 p3352 N84-31265
Rationale for US DOE energy storage program in hydrogen technology
[DE84-010225] 21 p3374 N84-31411
Test means and methods linked to experiments on systems — electromagnetic pulse effects
[SNIAS-841-422-110] 21 p3389 N84-31508
Lower confidence bounds on system reliability using component data: Maximum methodology
[DE84-012813] 21 p3415 N84-31658
Cronus, A distributed operating system: Functional definition and system concept
[AD-A142795] 21 p3462 N84-31950
Specifying the behavior of concurrent systems
[NASA-CR-173839] 21 p3464 N84-31957
Guide to computer-based training
[DE84-012244] 21 p3466 N84-31975
Activities in applied systems analysis
21 p3475 N84-32026
An RC-1 organic Rankine bottoming cycle for an adiabatic diesel engine
[NASA-CR-168256] 21 p3521 N84-32306
Microcomputers in transportation: Software and source book
[PB84-195155] 22 p3638 N84-33067
System analysis for the Huntsville Operational Support Center distributed computer system
[NASA-CR-171136] 22 p3643 N84-33097
Workshop on Systems Analysis
[PB84-194661] 22 p3650 N84-33138
Predictions of satisfaction with automated library circulation systems 22 p3670 N84-33259
System requirements and characteristics, book 3
[NAS 1.15:86852-BK-3] 23 p3698 N84-33440
Advanced development program, books 4 and 5
[NAS 1.15:86852-BK-4/5] 23 p3699 N84-33441
Development of a slotted waveguide array panel for SAR antenna: Electrical design and testing
[IEC-MO-80/11] 23 p3732 N84-33656
Technical features of robotized machining system viewed 24 p3892 N84-34643
Systems analysis and computer simulation studies of the laser ranging measurement process
24 p3906 N84-34739
Ada (trademark) training curriculum. Software engineering methodologies m201 teacher's guide, volume 1
[AD-A144256] 24 p3946 N84-34984

SYSTEMS COMPATIBILITY

Towards a modularity of software conceived for the requirement of the user 06 p0769 N84-15040
Initial graphics exchange specification test library, version 1.3
[PB84-102144] 08 p1214 N84-17922
The representation and synthesis of design specifications for distributed software systems
13 p2030 N84-23163

Computer and database location in designing distributed computer systems 13 p2066 N84-23399
Development of a proposed standard for the exchange of scientific microcomputer programs
[PB84-157940] 14 p2207 N84-24244
Large, horizontal-axis wind turbines
[NASA-TM-83546] 17 p2722 N84-27327
Color order systems for computer graphics. Part 1: Transformation of Natural Color System (NCS) data into CIELAB color space
[FOA-C-53013-H2] 18 p2922 N84-28528
He-3 cooling systems for space
[NASA-TM-85965] 20 p3183 N84-30226
Logistic support: A computer manufacturer's viewpoint
[AD-P003496] 21 p3514 N84-32262

SYSTEMS DESIGN
U SYSTEMS ENGINEERING

SYSTEMS ENGINEERING
NT COMPUTER SYSTEMS DESIGN
NT CONTROLLED SYSTEMS DESIGN
Designers voice complaints, suggestions regarding their work 01 p0055 N84-10354
Audio signal management techniques
[AD-A130391] 01 p0082 N84-10410
Technical analyses and related planning assistance in supporting of DOE's superconducting magnetic energy storage program
[DE83-012005] 01 p0139 N84-10909
On-line monitoring guide for technical personnel
[AD-A131044] 01 p0159 N84-11047
Research and technology, 1983
[NASA-TM-85702] 02 p0309 N84-12026
Control of multiaxis vibration systems 03 p0339 N84-12203
Engineering services in support of the AFGL sounding rocket program
[AD-A131929] 03 p0340 N84-12211
Center for electronics and electrical engineering technical progress bulletin covering signals and systems program, April 1982 - September 1982
[PB83-241158] 03 p0369 N84-12405
Design and implementation of a preprocessing system for a sodium lidar
[NASA-CR-174595] 03 p0378 N84-12462
Computational tool for the design of ultrasonic systems
[DE83-018092] 03 p0431 N84-12824
Efficient radiation-hardened, 400- and 800-keV neutral-beam injection systems
[DE83-015691] 03 p0440 N84-12886
Conceptual design of the high-flux VTA-2 test assembly for FMIT
[DE83-017022] 03 p0446 N84-12935
Design issues in the GCF Mark 4 development 04 p0520 N84-13415
Issues in the design and implementation of Act2
[AD-A132326] 04 p0580 N84-13826
Tools for the creation of IMS database designs from Entity-Relationship diagrams
[DE84-000592] 04 p0616 N84-14066
Subsystem duplexer for a 6-4 GHz Earth station
[INPE-2795-PRE/357] 05 p0866 N84-14379
Design and implementation of software protocol in VAX/VMS using ethernet local area network
[AD-A133699] 05 p0728 N84-14778
The software engineering prototype
[AD-A132612] 05 p0728 N84-14782
Critical factors and operational research in tactical fighter avionic system development 06 p0773 N84-15062
CADAS: A computer aided design tool for avionic systems 06 p0773 N84-15065
Design and verification of electromagnetic compatibility in airborne weapons systems 06 p0773 N84-15066
Simulation requirements to support the development of a fault tolerant avionic system 06 p0774 N84-15072
A dynamic approach to military avionics systems testing 06 p0774 N84-15075
Validation of digital systems in avionics and flight control applications handbook, volume 1
[AD-A133222] 06 p0788 N84-15150
AFTI/F-16 flight test results and lessons
[NASA-TM-84920] 06 p0791 N84-15159
4.0 K cryocooler project
[DE84-000332] 06 p0822 N84-15358
Preliminary designs for modifications to the X-ray source and beam monitor of the Marshall Space Flight Center's X-ray Calibration Facility 06 p0928 N84-16032
Local automation model: Functional description
[AD-A133389] 06 p0935 N84-16077
System integration and interface transition issues
[AD-A134563] 07 p0994 N84-16442
Design report: Two axis rotational rate measurement system using rate gyros
[NIAST-83/08] 07 p1068 N84-16938
Defense Data Network System Test Facility (STF) recommendations
[AD-A134166] 07 p1084 N84-17048
Recommended test and evaluation and independent verification and validation actions for the Defense Data Network
[AD-A134167] 07 p1084 N84-17049
Workshop on active microwave sensor design 08 p1177 N84-17667
Circular waveguide systems for electron-cyclotron-resonant heating of the tandem mirror experiment-upgrade
[DE84-003739] 08 p1233 N84-18062
Automotive Stirling engine development program
[NASA-CR-168205] 08 p1242 N84-18117
Space station needs, attributes and architectural options. Summary of major study activities and results. Space station program observations
[NASA-CR-173345] 09 p1267 N84-18275
Crew and life support: ECLSS 09 p1268 N84-18280
Structures and mechanisms 09 p1269 N84-18286
Space station needs, attributes and architectural options. Volume 4, attachment 1: Task 2 and 3 mission implementation and cost
[NASA-CR-173330] 09 p1269 N84-18290
Space station needs, attributes and architectural options. Volume 2, attachment 2: Supporting data and analysis reports
[NASA-CR-173329] 09 p1269 N84-18291
Space station needs, attributes and architectural options. Volume 1: Executive summary NASA
[NASA-CR-172792] 09 p1269 N84-18292
Space Station needs, attributes and architectural options. Volume 2, book 2, part 1: Mission implementation concepts
[NASA-CR-173316] 09 p1270 N84-18300
M/A-COM linkabit eastern operations
[AD-A136463] 09 p1299 N84-18490
Spaceborne Gravity Gradiometers. Part 3: Instrument status and prospects 09 p1335 N84-18719
Science of integration
[AD-A135590] 09 p1364 N84-18906
Proceedings of the 9th World Computer Congress. IFIP (International Federation of Information Processing)
[AD-A136317] 09 p1365 N84-18911
System engineering management guide
[AD-A136020] 09 p1398 N84-19129
Scientific and technical information output of the Langley Research Center
[NASA-TM-85735] 09 p1399 N84-19137
Concurrent algorithms as space-time recursion equations 09 p1400 N84-19143
Some critical issues in VLSI signal processor implementation 09 p1403 N84-19164
An engineering data management system for computer aided design
[NLR-MP-82050-U] 09 p1405 N84-19180
Study of a Tracking and Data Acquisition System (TDAS) in the 1990's
[NASA-CR-173282] 10 p1433 N84-19368
Design aspects of TV-SAT/TDF-1 heat pipes 10 p1440 N84-19404
System aspects of the European Retrievable Carrier (EURECA) thermal control system 10 p1444 N84-19432
The mobile radio service in the integrated network — AXE 10 commutation system 10 p1477 N84-19652
Multiple access mobile radio systems for private networks 10 p1477 N84-19654
Technical information support for survivability 10 p1508 N84-19868
An experimental hybrid model for a bilinear hysteretic system 10 p1514 N84-19910
Description and status report on TM processing system 10 p1523 N84-19978
Plasma engineering design of a Compact Reversed-Field Pinch Reactor (CRFPR)
[DE84-004334] 10 p1586 N84-20394
Knowledge-based support systems for long range planning
[AD-A137311] 10 p1591 N84-20424
Requirements analysis for forward funding tracking system, volume 1
[AD-A136840] 10 p1591 N84-20425
Benchmarking relational database machines' capabilities in supporting the database administrators' functions and responsibilities
[AD-A137413] 10 p1593 N84-20437
Flexible radiator system
[NASA-CR-171765] 11 p1623 N84-20623
Electronics/electrical manufacturing industry research needs
[PB84-122969] 11 p1648 N84-20774
Mechanical construction of the 22 Nova laser
[DE84-005432] 11 p1863 N84-20855
Automated RTOP management system 11 p1748 N84-21408
Developments in science and technology
[JHU/APL/DST-10] 11 p1761 N84-21491
Development of the parachute recovery system for the LBRV-2 reentry vehicle
[DE84-001540] 12 p1768 N84-21518
Survivability design guidelines for Fly-By-Wire Flight Control Systems development
[AD-A136211] 12 p1772 N84-21557
Modeling by means of networks
[IWECO-5177401-83-1] 12 p1804 N84-21781
ERS-1 Mission: Fucino Station
[ESA-CR(P)-1831-VOL-2] 12 p1809 N84-21792
Feasibility study of advanced optical techniques for ocean color measurement — satellite-borne
[MBB-R3700/292] 12 p1837 N84-21974
A user friendly operating system for the GLAS 4th order forecast-analysis system 12 p1853 N84-22072
Upper and lower bounds for semi-Markov reliability models of reconfigurable systems
[NASA-CR-172340] 12 p1897 N84-22353
Analog fiber optics: Pragmatic considerations beyond the textbook
[AD-A137528] 12 p1908 N84-22430
Automated hierarchical to CODASYL (Conference On Data Systems Languages) database interface schema translator
[AD-A138012] 12 p1918 N84-22496
Software engineering for user interfaces
[AD-A138937] 13 p2029 N84-23156
Program Manager's Support System (PMSS): An update
[AD-P002825] 13 p2062 N84-23370
The cryogenic wind tunnel Cologne 14 p2095 N84-23569
Saab claims world's most modern engine-assembly plant 14 p2135 N84-23800
Nondestructive Evaluation Technology Working Group report (IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability study)
[AD-A139464] 14 p2158 N84-23919
Development and flight test of a helicopter compact, portable, precision landing system concept
[NASA-TM-85951] 15 p2259 N84-24566
Industrial applications for plasma torches
[SNIAS-832-430-101] 15 p2305 N84-24829
Electromagnetic compatibility
[CAHIERS-TECHNIQUES-120] 15 p2322 N84-24942
Evidence accumulation for spatial reasoning in aerial image understanding
[AD-A139874] 15 p2336 N84-25025
Quality control in large systems development phase
[SNIAS-832-422-102] 15 p2348 N84-25074
Solar thermal system engineering guidebook
[NASA-CR-173432] 15 p2361 N84-25165
Specifying and verifying ultra-reliability and fault-tolerance properties 15 p2366 N84-25309
CRONUS: A distributed operating system
[AD-A139983] 15 p2398 N84-25328
The advantages of abstract control knowledge in expert system design
[AD-A139978] 15 p2396 N84-25370
Solid state research
[AD-A140027] 15 p2413 N84-25486
Summary of research, academic departments, 1982-1983
[AD-A140059] 15 p2416 N84-25507
Distributed and decentralized control in fully distributed processing systems
[AD-A140120] 15 p2418 N84-25520
X-band uplink technology demonstration at DSS-13 16 p2479 N84-25893
Activities report of the Computer Department
[ENST-D-8303] 16 p2542 N84-26314
Unified database development program
[AD-A140309] 16 p2567 N84-26471
The Fairchild Digital Flight Recorder (DFR) F 800 17 p2586 N84-26576
Development of land based radar polarimeter processor system
[NASA-CR-173636] 17 p2652 N84-26980
Princeton VLSI project
[AD-A140588] 17 p2663 N84-26986
Possibilities of creating invariant man-machine systems 17 p2743 N84-27414
Design of an integrated software system based on the relational data base model
[AD-A140628] 17 p2752 N84-27470
Ultralight reactive metal foams produced as structural shapes in space: System design 18 p2801 N84-27777

Space station needs, attributes and architectural options: Architectural options and selection
[NASA-CR-173894] 18 p2804 N84-27793
Space station needs, attributes and architectural options study. Volume 7-5A: Data book. Mission analysis part A
[NASA-CR-173701] 18 p2805 N84-27801
Space station needs, attributes and architectural options study. Volume 7-5B: Data book. Mission analysis part B
[NASA-CR-173711] 18 p2805 N84-27802
A study of space station needs, attributes, and architectural options, volume 2, technical. Book 2: Mission implementation concepts
[NASA-CR-173690] 18 p2805 N84-27806
Space station needs, attributes and architectural options: Study summary
[NASA-CR-173692] 18 p2806 N84-27814
Development of a multidetector deflection measurement system
[DE84-009703] 18 p2847 N84-28078
Safety-related requirements for photovoltaic modules and arrays
[NASA-CR-173747] 18 p2868 N84-28206
Radar network in West Germany — meteorological radar 18 p2868 N84-28332
Radar network in Sweden — meteorological radar 18 p2868 N84-28333
User centered system design. Part 2: Collected papers from the UCSD HMI project
[AD-A141023] 18 p2915 N84-28486
System definition study of deployable, non-metallic space structures
[NASA-CR-171090] 19 p2980 N84-28867
Review of research under the Joint Services Electronics Program
[AD-A141458] 19 p3013 N84-29100
Antenna applications and system engineering
[AD-P003401] 19 p3014 N84-29105
VLSI research
[AD-A142142] 19 p3016 N84-29119
Low aspect ratio turbine design at Rolls-Royce 19 p3023 N84-29169
A design method for a state feedback microcomputer controller of a wide bandwidth analog plant
[AD-A142101] 19 p3072 N84-29490
Software support for fully Distributed/Loosely coupled processing systems, volume 1
[AD-A141500] 19 p3076 N84-29518
An H sup inf minimax approach to the design of robust control systems
[OUEL-1520/84] 19 p3091 N84-29629
Chemical-hydrogen energy systems
[DE84-012876] 20 p3167 N84-30112
Control systems design for linear dynamic systems using simple models: Some case studies. Part 1: The single-input/single-output case
[RR-247-PT-1] 20 p3171 N84-30134
LANDSAT-4 system description 20 p3205 N84-30361
Multispectral Scanner (MSS) instrument description 20 p3205 N84-30362
Thematic Mapper (TM) instrument description 20 p3205 N84-30363
Radiometric calibration and processing procedure for reflective bands on LANDSAT-4 protoflight Thematic Mapper 20 p3206 N84-30366
An overview of the Thematic Mapper geometric correction system 20 p3206 N84-30367
Achieving the benefits of modular avionics design
[AD-P003562] 21 p3336 N84-31167
Some aspects of guidance loop design for SAM systems 21 p3350 N84-31251
Cronus, A distributed operating system: Functional definition and system concept
[AD-A142795] 21 p3462 N84-31950
Specifying the behavior of concurrent systems
[NASA-CR-173839] 21 p3464 N84-31957
Implementation of INTERLISP on the VAX
[AD-A141707] 21 p3465 N84-31967
An adaptive CBT (Computer Based Training) courseware authoring system to meet the needs of military authors
[AD-P003460] 21 p3510 N84-32237
A system for controlling the oxygen content of a gas produced by combustion
[NASA-CASE-LAR-13257-1] 22 p3546 N84-32447
Effect of feed gas trace components on the SRC-1 hydrogen purification unit
[DE84-012975] 22 p3562 N84-32556
Autonomous Integrated Receive System (AIRS) requirements definition. Volume 1: Executive summary
[NASA-CR-175261] 22 p3575 N84-32646
Microcomputers in transportation: Software and source book
[PB84-195155] 22 p3638 N84-33067
Implementing automated information systems in the Air Force
[AD-A143398] 22 p3674 N84-33288
Space station program description document. Books 1-7
[NASA-TM-86652-BK-1-7] 23 p3696 N84-33437
Space station program description document: Introduction and summary, book 1
[NAS 1.15:86652-BK-1] 23 p3698 N84-33438
Program plan, book 7
[NAS 1.15:86652-BK-7] 23 p3699 N84-33443
Conceptual design of satellite SAR 23 p3782 N84-33985
ERS synthetic aperture radar design 23 p3783 N84-33989
Verification techniques for satellite-borne synthetic aperture radars 23 p3783 N84-33992
A standard organization for specifying abstract interfaces
[AD-A143787] 23 p3815 N84-34184
Networking 23 p3843 N84-34381
Autopilot performance evaluation Tornado experience and future applications 24 p3849 N84-34407
Fleet project team participation in major aviation training device development, acquisition and support
[AD-A144182] 24 p3857 N84-34452
Vibration isolation system for testing in a vacuum 24 p3864 N84-34492
Decision rules applied to spread spectrum signal detection
[AD-A144253] 24 p3894 N84-34661
Design of a spaceborne lidar for measurements from operational satellites 24 p3907 N84-34745
US Army Ada training curriculum. Curriculum catalog, 1984
[AD-A144186] 24 p3945 N84-34978
Ada (trademark) training curriculum. Software engineering methodologies M201 teacher's guide, volume 2
[AD-A144257] 24 p3946 N84-34985
Interactive implementation of the optimal systems control design program (OPTSYSX) on the IBM 3033
[AD-A144159] 24 p3948 N84-35000
The International Ultraviolet Explorer (IUE): Six years in orbit 24 p3961 N84-35224

SYSTEMS INTEGRATION
Flight evaluation results from the general-aviation advanced avionics system program
[NASA-TM-84367] 01 p0007 N84-10042
Proceedings of the 1982 Integrated Data Users Workshop
[DE83-014761] 01 p0162 N84-11066
Integration of Fire Control, Flight Control and Propulsion Control Systems
[AGARD-CP-349] 03 p0315 N84-12056
F-16 Penguin anti-ship missile integration 03 p0315 N84-12059
Integration of fire control, navigation system and head up display 03 p0315 N84-12060
The relations between the numerical control of the engine and other aircraft functions 03 p0315 N84-12062
Integrated powerplant control systems and potential performance benefits 03 p0316 N84-12063
Full authority digital electronic engine controls and their integration with flight control systems in VSTOL aircraft 03 p0316 N84-12064
Design and development of the multifunction flight control reference system 03 p0316 N84-12065
Some aspects of flight trajectory control in future avionic systems for combat aircraft 03 p0316 N84-12066
A diagnosis scheme for sensors of a flight control system using analytic redundancy 03 p0316 N84-12067
Effects of integrated maintenance on the definitions of onboard equipments — Mirage 2000 aircraft 03 p0316 N84-12068
An integrated AFCS for the "PROFILE"-mode 03 p0317 N84-12069
The integration of flight and engine control for VSTOL aircraft 03 p0317 N84-12070
A nonlinear control law for piloting aircraft in the air-to-ground attack phase 03 p0317 N84-12071
Integrated Flywheel Technology, 1983
[NASA-CP-2290] 03 p0343 N84-12228
Integrated Power/Attitude Control System (IPACS) 03 p0344 N84-12229
The Boeing flywheel study 03 p0344 N84-12235
Combined attitude control and energy storage 03 p0345 N84-12237
Technical and economic analysis of the planned visual display terminal employment for the Stock Point Logistics Integrated Communications Environment (SPLICE)
[AD-A133642] 05 p0719 N84-14711
Computer program development specification for Ada integrated environment: KAPSE (Kernel Ada Programming Support Environment)/Database, type b5, B5-AIE(1).KAPSE(1)
[AD-A134092] 05 p0726 N84-14766
System specification for Ada integrated environment type A AIE(1)
[AD-A134090] 05 p0726 N84-14769
Computer program development specification for Ada integrated environment. MAPSE command processor B5-AIE(1).MCP (1)
[AD-A134033] 05 p0727 N84-14772
Computer program development specification for Ada integrated environment. Ada compiler phases B5-AIE (1). COMP (1)
[AD-A134032] 05 p0727 N84-14773
Computer program development specification for Ada integrated environment: Program integration facilities, type b5, B5-AIE (1). PIF (1)
[AD-A134003] 05 p0727 N84-14774
Advanced Concepts for Avionics/Weapon System Design, Development and Integration
[AGARD-CP-343] 06 p0768 N84-15034
Avionics/crew station integration 06 p0769 N84-15042
Guidelines and criteria for the functional integration of avionic systems with crew members in command 06 p0770 N84-15044
Connecting aircraft and external loads 06 p0770 N84-15046
Towards the functional partitioning of highly integrated, fault tolerant avionics signal processors 06 p0770 N84-15047
Advanced F/A-18 avionics 06 p0770 N84-15048
A video bus for weapon system integration 06 p0771 N84-15051
First level integrated maintenance in weapons systems 06 p0771 N84-15054
A practical approach to the design of a new avionic system 06 p0772 N84-15058
Integration of ICNIA into advanced high performance fighter aircraft 06 p0772 N84-15059
The dynamics of software development project management: An integrative systems dynamic perspective
[NASA-CR-175342] 07 p1054 N84-16824
Integrated Computer-Aided Manufacturing (ICAM) architecture part 3. Volume 1: Architecture part 3: Accomplishments
[AD-A134249] 07 p1055 N84-16829
Review of the tandem mirror experiment-upgrade (TMX-U) machine-parameter-instrumentation system
[DE84-003243] 07 p1078 N84-17009
Defense Data Network System Test Facility (STF) recommendations
[AD-A134166] 07 p1084 N84-17048
Recommended test and evaluation and independent verification and validation actions for the Defense Data Network
[AD-A134167] 07 p1084 N84-17049
STEP experiment integration 08 p1109 N84-17215
M/A-COM linkabit eastern operations
[AD-A136463] 09 p1299 N84-18490
Science of integration
[AD-A135590] 09 p1364 N84-18906
Integration of mathematical models: Experience of first Spacelab mission 10 p1444 N84-19431
Integrated Computer-Aided Manufacturing (ICAM) architecture. Part 3, volume 2: Procedures
[AD-A137422] 10 p1563 N84-20240
A review of recent developments in flight test techniques at the Ames Research Center, Dryden Flight Research Facility
[NASA-TM-86039] 11 p1606 N84-20515
Implications of control technology on aircraft design 11 p1615 N84-20573
AFTI/F-16 digital flight control system experience 11 p1619 N84-20592
Distributed processing tools definition. Volume 3: An integrated software engineering environment for distributed processing software development
[AD-A137688] 11 p1704 N84-21107
A summary of Proceedings of the Department of Defense Robotics Applications Workshop, volume 1 (exclusive of presentations)
[AD-A137941] 11 p1711 N84-21157
Integrating micro-computers with a centralized DBMS: ORACLE, SEED AND INGRES 11 p1748 N84-21409
Multibus Avionic Architecture Design Study (MAADS)
[AD-A138226] 12 p1770 N84-21546
The virtual front end: Towards better management of solid geometric data 12 p1874 N84-22213

IPAD 2: Advances in Distributed Data Base Management for CAD/CAM
[NASA-CP-2301] 12 p1889 N84-22299
Technology for the product and process data base 12 p1889 N84-22302
Design versus manufacturing data base management requirements 12 p1890 N84-22304
Integrated testing and maintenance technologies
[AD-A136587] 13 p1925 N84-22526
The representation and synthesis of design specifications for distributed software systems 13 p2030 N84-23163
Development of a proposed standard for the exchange of scientific microcomputer programs
[PB84-157940] 14 p2207 N84-24244
Highly integrated digital engine control system on an F-15 airplane
[NASA-TM-86040] 15 p2262 N84-24587
Quality control in large systems development phase
[SNIAS-832-422-102] 15 p2346 N84-25074
Submicron systems architecture
[AD-A139844] 15 p2368 N84-25327
Application of multifunction strapdown inertial system 16 p2447 N84-25696
Integrated systems of manufacture (robotics) technology working group report (IDA/OSD Rand M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study)
[AD-A140304] 16 p2477 N84-25878
Physical integration of the HUD (Head-Up Display)
[AD-P003163] 17 p2589 N84-26594
Develop and test fuel cell powered on-site integrated total energy systems
[NASA-CR-174714] 17 p2723 N84-27329
Integrated Application of Active Controls (IAAC) technology to an advanced subsonic transport project: Current and advanced act control system definition study, volume 1
[NASA-CR-165631-VOL-1] 19 p2967 N84-28802
Proposal and development plan for an aircraft systems integration laboratory
[AD-A141827] 19 p2970 N84-28822
Liquid hydrogen polygeneration system and process
[NASA-CASE-KSC-11304-1] 19 p3001 N84-29017
Integrated gas-fired space heating/water heating system with electric air conditioning
[PB84-181999] 20 p3171 N84-30138
Report on functional design specification for the automated alphanumeric data entry system
[AD-A142518] 20 p3266 N84-30725
Software modifications to the Demonstration Advanced Avionics Systems (DAAS)
[NASA-TM-85942] 21 p3327 N84-31105
Standards and integrated avionic digital system architecture
[AD-P003561] 21 p3336 N84-31166
PAVE PILLAR: A maturation process for an advanced avionics architecture
[AD-P003568] 21 p3337 N84-31173
Advanced cockpit-systems integration
[AD-P003569] 21 p3337 N84-31174
Integrated CNI (Communication Navigation and Identification) avionics and future standardization
[AD-P003580] 21 p3339 N84-31185
Proceedings of the 2nd AFSC (Air Force Systems Command) Avionics Standardization Conference. Volume 3: Embedded computer resources governing documents
[AD-A142778] 21 p3342 N84-31201
Proceedings of the 2nd AFSC (Air Force Systems Command) Avionics Standardization Conference. Volume 4: Tutorial: MIL-STD-1553 multiplex data bus
[AD-A142779] 21 p3342 N84-31202
Proceedings of the 2nd AFSC (Air Force Systems Command) Avionics Standardization Conference. Volume 5: Tutorial: MIL-STD-1589 JOVIAL (J-73) high order language
[AD-A142780] 21 p3342 N84-31203
Proceedings of the 2nd AFSC (Air Force Systems Command) Avionics Standardization Conference. Volume 6: Tutorial: MIL-STD-1679 weapon system software development
[AD-A142781] 21 p3342 N84-31204
Proceedings of the 2nd AFSC (Air Force Systems Command) Avionics Standardization Conference. Volume 7: Tutorial: MIL-STD-1750, 16 bit instruction set architecture
[AD-A142782] 21 p3342 N84-31205
Proceedings of the 2nd AFSC (Air Force Systems Command) Avionics Standardization Conference. Volume 8: Tutorial: MIL-STD-1815 Ada high order language
[AD-A142783] 21 p3342 N84-31206
Proceedings of the 2nd AFSC (Air Force Systems Command) Avionics Standardization Conference. Volume 9: Tutorial: Navy case study implementation of military standards
[AD-A142784] 21 p3342 N84-31207
Application of TOS/AMS to TDRS E and F
[NASA-CR-171124] 21 p3346 N84-31225
Guidelines for testing and release procedures
[NASA-CR-166561] 21 p3464 N84-31982
Study of numerical control systems for machines. Integration in flexible workshops and units
[CETIM-1.3T.042] 21 p3470 N84-31991
Sensor noise and Kalman filter for aided inertial navigation system
[AD-A143360] 22 p3534 N84-32372
Autonomous Integrated Receive System (AIRS) requirements definition. Volume 3: Performance and simulation
[NASA-CR-175263] 22 p3576 N84-32648
Interactive information environments: A plan for enabling interdisciplinary research
[RAND/N-2115] 22 p3673 N84-33284
Program plan, book 7
[NAS 1.15:86652-BK-7] 23 p3690 N84-33443
Telemetry/Telecommand (TM/TC) processor study
[MATRA-144-TM-TC-03-002] 23 p3699 N84-33448
Efficient editing of solid models by exploiting structural and spatial locality
[TM-46] 23 p3815 N84-34190
Flight Test Techniques
[AGARD-CP-373] 24 p3847 N84-34396
Autopilot performance evaluation Tornado experience and future applications 24 p3849 N84-34407
Real time flight test conduction and monitoring 24 p3850 N84-34414
Flight testing and real time data processing for development and integration of weapon systems 24 p3850 N84-34415
Mesoscale and severe storms (Mase) data management and analysis system 24 p3929 N84-34871
Integrated Computer-Aided Manufacturing (ICAM) architecture, part 3. Volume 7: MFG01 glossary
[AD-A144426] 24 p3947 N84-34991
Advanced studies of integrable systems
[AD-A144122] 24 p3959 N84-35069

SYSTEMS MANAGEMENT
Integrated powerplant control systems and potential performance benefits 03 p0316 N84-12063
System integration and interface transition issues
[AD-A134583] 07 p0994 N84-16442
A method for designing computer support documentation
[AD-A134486] 07 p1055 N84-16831
Man and machine. The role of human factors in system development
[FOA-A-56005-H2] 08 p1206 N84-17863
System engineering management guide
[AD-A136020] 09 p1396 N84-19129
Program Manager's Support System (PMSS): An update
[AD-P002825] 13 p2062 N84-23370
Computer science and technology: Selection of microcomputer systems
[PB84-167725] 15 p2369 N84-25331
Weight characteristics of future spacecraft thermal management systems
[AD-A141403] 19 p2962 N84-28895
LONEX (Laboratory Office Network Experiment) cost/benefits study, volume 2
[AD-A141397] 19 p3114 N84-29787
Software control and system configuration management: A systems-wide approach
[NASA-TM-85906] 21 p3328 N84-31112
Feasibility study of a low cost Energy Performance Management System (EPMS) — automatic flight control
[BMFT-FB-W-84-015] 21 p3328 N84-31116
Analysis of modem analog and digital communication channels from a manager's perspective
[AD-A143161] 21 p3387 N84-31494
An evaluation of the system 2000 data base management system for use in major item system mapping
[DE84-013130] 21 p3519 N84-32296
Decision-making process in management automation 24 p3892 N84-34844

SYSTEMS SIMULATION
Computer-Aided Design and Analysis of Digital Guidance and Control Systems
[AGARD-LS-128] 01 p0014 N84-10093
Modeling and simulation techniques 01 p0015 N84-10096
Numerical aspects of control design computations 01 p0015 N84-10097
Geometric models, antenna gains, and protection ratios as developed for BC SAT-R2 conference software
[NASA-TM-83381] 02 p0206 N84-11358
Systems dynamics: Recent technical advances and current projects
[INPE-2846-PRE/368] 02 p0286 N84-11874
Simulation of electro-servo-hydraulic actuator for high quality testing — of spacecraft 03 p0340 N84-12206
The simulation of a Frequency Shift Keying (FSK) diversity system
[DFVLR-FB-83-22] 03 p0363 N84-12363
Nonlinear dynamics and control of a vibrating rectangular plate
[NASA-CR-172215] 03 p0388 N84-12528
SPOT on-board software test and validation: Methodology and tools 05 p0724 N84-14755
Methods for developing the navigation and weapon systems of the Mirage 2000 06 p0774 N84-15088
Recent advances in variable speed electrical generator systems for large wind turbines
[DE84-001833] 06 p0830 N84-15404
Correlative phase modulation for fixed satellite service-a. Volume 2: Supplementary report
[PTI-SS-2363-21-3794-VOL-2] 08 p1147 N84-17486
Scatterometer System Simulator (SSS), phase 1: Definition — ERS-1 (ESA satellite)
[ESA-CR(P)-1788] 08 p1191 N84-17785
BERTHA: A versatile transmission line and circuit code
[AD-A135024] 08 p1209 N84-17886
Selection of noisy sensors and actuators for regulation of linear systems — large space structures
[AD-A135442] 08 p1216 N84-17931
NAVSTAR GPS simulation and analysis program
[PB84-134402] 10 p1427 N84-19332
Integration of mathematical models: Experience of first Spacelab mission 10 p1444 N84-19431
Results of the joint NASA/NOAA AMTS/HIRS2 sounding simulation test 12 p1851 N84-22059
Stability and performance deterioration due to modelling errors — plant models
[RR-236] 13 p2031 N84-23166
An introduction to adjoint techniques
[BAE-BT-11172] 13 p2031 N84-23170
Investigation of dynamic noise affecting geodynamics information in a tethered subsatellite
[NASA-CR-173558] 15 p2319 N84-24923
Development of simulators for guiding systems 18 p2797 N84-27750
Supervisory control: Introduction and theory — industrial plant control 20 p3263 N84-30706
A utility plant simulator for control room experiments 20 p3264 N84-30708
A simulation technique for checking the circle criterion — linear systems stability
[RR-248] 20 p3267 N84-30733
Linear structures in bilinear systems
[RR-250] 20 p3284 N84-30852
Advanced Technology for SAM Systems Analysis Synthesis and Simulation
[AGARD-LS-135] 21 p3350 N84-31248
ERS-1 system simulation and calibration 23 p3783 N84-33891
Thirteenth Space Simulation Conference. The Payload: Testing for Success
[NASA-CP-2340] 24 p3861 N84-34466

SYSTEMS STABILITY
Stability enhancement of a flexible robot manipulator
[AD-A134185] 07 p1051 N84-16807
On the stability of the cell size distribution
[MC-TW-242/83] 07 p1065 N84-16907
Adaptive control: Myths and realities 11 p1618 N84-20586
Development of capsular adhesive systems and evaluation of their stability
[AD-A140083] 15 p2302 N84-24616
Dynamic stability of high order linear systems 15 p2312 N84-24674
A simulation technique for checking the circle criterion — linear systems stability
[RR-248] 20 p3267 N84-30733
Operational performance of the Antares alignment system
[DE84-012659] 21 p3410 N84-31632
Analysis of wind turbines in yaw
[DE84-013820] 21 p3435 N84-31794

SYSTOLE
Assessment of the functional state of the heart muscle in aircrew members by means of bicycle ergometry 06 p1199 N84-17815
Yield enhancement by fault tolerant systolic arrays (summary) 09 p1402 N84-19158
Optical systolic solutions of linear algebraic equations 12 p1905 N84-22405

T

T SHAPE
Experimental stress analysis and fatigue tests of five 12-in NPS ANSI Standard B16.9 tees
[DE84-010280] 16 p2653 N84-28117

T TAURI STARS
Theory of winds in late-type evolved and pre-main-sequence stars 03 p0488 N84-13085
A UV glimpse of T Tauri stars 24 p3975 N84-35174
Coordinated X-ray and ultraviolet observations of RU Lupi 24 p3978 N84-35199
T-2 AIRCRAFT
The VTX duty cycle developed from T-2C and TA-4J engine usage data
[AD-A133962] 05 p0831 N84-14149
T-38 AIRCRAFT
Alternate T-38 transparency development. Part 4: Parametric studies
[AD-A131904] 03 p0331 N84-12159
Pyrotechnic clear path egress system for the T-38 trainer aircraft
[AD-P003184] 17 p2589 N84-26597
In-flight measurement of pressure distribution over T-38 student canopy
[AD-P003207] 17 p2593 N84-26620
Simulation of T-38 aircraft student canopy response to cockpit pressure and thermal loads using MAGNA (Materially and Geometrically Nonlinear Analysis)
[AD-P003231] 17 p2597 N84-26644
Parametric studies of the T-38 student windshield using the finite element of code MAGNA (Materially and Geometrically Nonlinear Analysis)
[AD-P003232] 17 p2597 N84-26645
SPF/DB primary structure for supersonic aircraft (T-38 horizontal stabilizer)
[NASA-CR-163114] 18 p2813 N84-27860
TABLES (DATA)
NT MATHEMATICAL TABLES
Intercomparison of stable-element content of foods by statistical methods
[DE83-014029] 01 p0118 N84-10764
The NEST chemistry computer program: Operations handbook
[AD-A130215] 01 p0121 N84-10788
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F. Altus AFB, Oklahoma
[AD-A131613] 02 p0254 N84-11662
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F. Grissom AFB, Indiana
[AD-A131198] 02 p0254 N84-11665
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F. Blytheville AFB, Arkansas
[AD-A131197] 02 p0254 N84-11666
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F. Ellsworth AFB, Rapid City, South Dakota
[AD-A131196] 02 p0255 N84-11667
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F. Carswell AFB, Texas
[AD-A131193] 02 p0255 N84-11669
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F. Cape Newenham AFS, Alaska
[AD-A131192] 02 p0255 N84-11670
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F. Tin City AFS, Alaska
[AD-A131191] 02 p0255 N84-11671
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F. Wertheim AAF, West Germany
[AD-A131190] 02 p0255 N84-11672
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F. Loring AFB, Maine
[AD-A131189] 02 p0256 N84-11673
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A, C, and D. Feucht AAF, West Germany
[AD-A131188] 02 p0256 N84-11674
Extent of hearing loss among Army aviators at Fort Rucker, Alabama
[AD-A132069] 03 p0415 N84-12714
Forest statistics for southwest-south Alabama counties, Forest Service resource bulletin
[PB83-249763] 04 p0556 N84-13664
Solar-geophysical data prompt report, no. 466. Data for May 1983, April 1983 and late data. Explanation of data reports issued as number 462 (supplement), part 1
[PB83-253435] 07 p1093 N84-17107
Solar-geophysical data center number 467, July 1983, part 1 (prompt reports). Data for June 1983, May 1983 and late data
[PB84-100486] 08 p1246 N84-18144
Solar-geophysical data number 467, July 1983, part 2 (comprehensive reports). Data for January 1983, November 1980 and miscellanea
[PB84-100494] 08 p1246 N84-18145
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Zaragoza Air Base, Spain
[AD-A136281] 12 p1660 N84-22121
Surface wave propagation over sinusoidally varying topography: Theory and observation
[IOS-159-PT-2] 13 p1991 N84-22923
Water resources data for Pennsylvania, Water Year 1982. Volume 1: Delaware River Basin
[PB84-161579] 14 p2170 N84-23999
Water resources data for New Hampshire and Vermont, Water Year 1982
[PB84-161868] 14 p2170 N84-24000
Water resources data for Florida, water year 1982. Volume 1B: Northeast Florida ground water
[PB84-161876] 14 p2170 N84-24001
Water resources data for Florida, water year 1982. Volume 1A: Northeast Florida surface water
[PB84-162338] 14 p2170 N84-24002
Tabular methods for the design of CCD (Charge-Coupled Devices) multiple-valued circuits
[AD-P002347] 14 p2192 N84-24136
Fatigue crack growth rate data for aluminum alloy 6061-t651 plate
[AD-A140325] 16 p2469 N84-25824
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F:: Upper Heyford RAF, UK
[AD-A140246] 16 p2530 N84-26246
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Woodbridge RAF, United Kingdom
[AD-A140247] 16 p2531 N84-26247
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Lakenheath, United Kingdom
[AD-A140248] 16 p2531 N84-26248
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Kadena AB, Japan
[AD-A140249] 16 p2531 N84-26249
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Bentwaters RAF United Kingdom
[AD-A140250] 16 p2531 N84-26250
Ocean Wave Statistics: A new look 18 p2855 N84-28129
On the Lehmann power analysis for the Wilcoxon Rank Sum Test
[AD-P003844] 24 p3939 N84-34932
TABS (CONTROL SURFACES)
Note on an accident to the Boulton Paul 120 VT 951 delta aircraft
[RAE-STRUCT-ACC-248] 17 p2603 N84-26677
TABULATING
U TABULATION PROCESSES
TABULATION PROCESSES
Heat transfer and thermal stability of alternative aircraft fuels. Volume 2: Appendices
[AD-A137405] 10 p1469 N84-19598
Designing readable and reusable tables
[RAND/P-6945] 14 p2247 N84-24496
TACAN
Sensor noise and Kalman filter for aided inertial navigation system
[AD-A143360] 22 p3534 N84-32372
TACHOMETERS
Orientation and calibration of three-dimensional tachometer with aid of available angle data 17 p2651 N84-26954
Shaft transducer having dc output proportional to angular velocity
[NASA-CASE-NPO-15706-1] 18 p2838 N84-28017
TACKINESS
Structural pressure sensitive silicone adhesives
[NASA-CASE-LAR-13270-1] 22 p3558 N84-32532
TACT PROGRAM
F-111 TACT natural laminar flow glove flight results 18 p2783 N84-27662
TACTICAL AIR NAVIGATION
U TACAN
TACTICS
Meteorological sensors for battlefield weather support
[AD-A132623] 05 p0709 N84-14643
Critical factors and operational research in tactical fighter avionic system development 06 p0773 N84-15062
An application of the Navstar global positioning system in navigation track reconstruction for Naval exercises
[AD-A136807] 10 p1425 N84-19321
An expected value air combat model simulation algorithm to predict missions performance in tactical air operations
[AD-A137651] 11 p1718 N84-21207
Jam-resistant tactical communications 13 p1976 N84-22828
High value target modeling for tactical decision aids
[AD-P002953] 14 p2199 N84-24193
The Multiple System OFP Support (MSOS) system, a Pre-PMRT capability for evaluating tactical software
[AD-P003524] 21 p3330 N84-31128
TAGGING
U MARKING
TAIL ASSEMBLIES
Suppression of interference flutter by composite tailoring 05 p0632 N84-14155
A study to determine the accuracy of 2 computer programs in predicting hinge moments for all movable tail fins on missile bodies
[AD-A133399] 06 p0793 N84-15169
Determination of elevator and rudder hinge forces on the Learjet model 55 aircraft 06 p0860 N84-15604
Missile rolling tail brake torque system — simulating bearing friction on canard controlled missiles
[NASA-CASE-LAR-12751-1] 07 p0961 N84-16231
Testing for severe aerodynamically induced vibration environments 10 p1513 N84-19905
An experimental study on the induced rolling moment due to wing-tail interference and roll-controllable two-stage rocket
[NAL-TR-793] 12 p1777 N84-21599
On the stick-free longitudinal dynamic stability of a general aviation aircraft equipped with an all-movable horizontal tail 18 p2797 N84-27748
TAIL MOUNTINGS
U TAIL ASSEMBLIES
TAIL PLANES
U HORIZONTAL TAIL SURFACES
TAIL ROTORS
NT HELICOPTER TAIL ROTORS
Aircraft accident report. Western Helicopters, Inc., Bell-UH-1B, N87701, Valencia, California July 23, 1982
[PB84-910402] 11 p1603 N84-20602
A rear engine without joints and pillows
[MBB-UD-383-83-O] 16 p2563 N84-26441
Noise reduction experience at Hughes Helicopter, Inc. 19 p3096 N84-29666
TAIL SURFACES
NT HORIZONTAL TAIL SURFACES
TAILLESS AIRCRAFT
NT F-106 AIRCRAFT
TAILORING
U DESIGN
TAILS (ASSEMBLIES)
U TAIL ASSEMBLIES
TAKEOFF
NT VERTICAL TAKEOFF
Aircraft operations from airfields with special unconventional characteristics 06 p0776 N84-15085
Influence of windshear on flight safety 06 p0776 N84-15088
Evaluation and analysis of experience reports concerning wind shear problems
[DFVLR-FB-83-19] 07 p0949 N84-16159
Noise levels and data analyses for small prop-driven aircraft
[AD-A134598] 07 p0952 N84-16175
Field evaluation of proposed ICAO annex 16 takeoff noise certification procedure for propeller-driven airplanes not exceeding 5700 kg
[DFVLR-FB-83-34] 12 p1901 N84-22378
Ministry official on improving all-weather aviation capabilities 14 p2093 N84-23552
Flight simulation investigations for the problem of flyability of noise optimal approach and takeoff paths
[IFD-3/83] 14 p2221 N84-24329
Evaluation of strategies to enhance departure sequencing
[AD-A140710] 17 p2605 N84-26589
Validation of an Active Gear, Flexible Aircraft Take-off and Landing analysis (AGFATL)
[NASA-TP-2353] 22 p3534 N84-32378
Radar cross section measurements of wingtip vortices 23 p3775 N84-33934
Airplane take-off system
[AD-D011204] 24 p3856 N84-34449
TALKING
NT WORDS (LANGUAGE)
TALON AIRCRAFT
U T-38 AIRCRAFT
TANGENTS
Tangential mode instability in double-base solid rocket motors: A case study 13 p1946 N84-22652

TANKER AIRCRAFT
A study of the aerodynamic interference effects during aerial refueling
[AD-A136895] 10 p1420 N84-19290
The handling and performance trials needed to clear an aircraft to act as a receiver during air-to-air refueling
24 p3848 N84-34405
TANKER SHIPS
Summaries of doctorate theses — man machine systems 20 p3263 N84-30705
TANKERS
Tanker orbit transfer vehicle and method
[NASA-CASE-MSC-20543-1] 13 p1939 N84-22610
Flashback flame arresters for fuel cargo tanks
15 p2431 N84-25801
TANKS (COMBAT VEHICLES)
Relationship between crewmember characteristics and tank crew performance
[AD-P003355] 18 p2912 N84-28471
TANKS (CONTAINERS)
NT CYLINDRICAL TANKS
NT EXTERNAL TANKS
NT FUEL TANKS
NT PROPELLANT TANKS
NT STORAGE TANKS
Nonlinear sloshing analysis of liquid in containers with arbitrary geometries
[NAL-TR-757] 09 p1313 N84-18579
Measurements of the impulse response and reverberation underwater in the depressurized towing tank MARIN
[TPD-208.730/1] 12 p1900 N84-22374
TANTALUM
Melting of metals above 100 GPa
[DE83-015261] 01 p0046 N84-10299
Rarefaction velocities in shocked tantalum and the high-pressure melting point
[DE83-015916] 02 p0195 N84-11268
Effects of hydrogen on strength and ductility of tantalum 06 p0807 N84-15260
Thermal and electrical interaction of tantalum with a low temperature chemically active plasma flow
[NASA-TM-77374] 06 p0920 N84-15980
Precision clock generators in Ta thin film technology
[BMFT-FB-T-84-073] 19 p3019 N84-29144
TANTALUM ALLOYS
Influence of cobalt, tantalum and tungsten on the high temperature mechanical properties of single crystal nickel-base superalloys
[NASA-TM-83479] 06 p1131 N84-17355
Experimental research facility for creep-rupture testing of tantalum alloy T-111
[DE84-012030] 20 p3155 N84-30036
Tantalum-copper alloy and method for making
[DE84-011081] 20 p3155 N84-30037
Engineering basis for selection of positron source material
[DE84-011772] 21 p3494 N84-32143
TANTALUM CARBIDES
Structure, preparation and properties of refractory compounds and systems (hard materials and hard metals)
[NASA-TM-77076] 07 p0974 N84-16309
Calculation of vaporization rates assuming various rate determining steps: Application to the resistojet
[NASA-TM-83757] 21 p3355 N84-31283
TANTALUM COMPOUNDS
NT TANTALUM CARBIDES
Temperature compensation of surface transverse waves for stable oscillator applications
[AD-A144245] 24 p3894 N84-34660
TAPE RECORDERS
Analysis of tutored videotape instructional delivery system
[AD-A133441] 07 p1050 N84-16800
The measurement of mechanical point admittances by means of hammer excitation and tape recording. Part 1: A feasibility study
[TPD-308.780/1-VOL-1] 12 p1900 N84-22375
The measurement of mechanical point admittances by means of hammer excitation and tape recording. Part 2: Measuring and processing rules
[TPD-308.780/2-VOL-2] 12 p1900 N84-22376
Digital capability for cockpit television sensor instrumentation systems
[AD-A139432] 14 p2106 N84-23628
Synchronization technique of data recorded on a multichannel tape recorder
[AD-A139570] 14 p2148 N84-23868
Study of future recorders for ESA
[ESA-CR(P)-1864] 16 p2496 N84-26018
Upgraded aircraft accident recorder standards
17 p2586 N84-26574
Enhanced safety by means of clear information on hazards and operational disturbances by a plain language communication device
[BMFT-FB-HA-84-010] 18 p2830 N84-27971
VLSI systems of digital signal processing for consumer applications
[BMFT-FB-T-84-060] 19 p3019 N84-29143
A high resolution system for analogue recording and digital processing of measured values in fusion research
[JUEL-1909] 23 p3752 N84-33786
TAPER
U TAPERING
TAPERED COLUMNS
Inelastic stability of tapered, singly-symmetric beam-columns 02 p0230 N84-11509
An improved finite-difference analysis of uncoupled vibrations of tapered cantilever beams
[NASA-TM-83495] 04 p0548 N84-13610
TAPERED WINGS
U SWEPT WINGS
TAPERING
Effect of periodic, tapered enlargements and contractions on turbulent heat transfer and fluid flow in a circular duct 02 p0217 N84-11422
New elements for analysis of space frames with tapered members 05 p0695 N84-14561
Reducing grating lobes due to subarray amplitude tapering
[AD-A143644] 23 p3730 N84-33644
TAPES
Tape joint design guidelines
[DE84-002052] 05 p0688 N84-14522
Tape heating method for space simulation testing
24 p3864 N84-34488
TAR SANDS
Alternate fuels combustion research
[AD-A138575] 13 p1965 N84-22769
TARE (DATA REDUCTION)
U DATA REDUCTION
TARGET ACQUISITION
A preliminary assessment of observer expectations in target detection tasks
[MRL-R-893] 05 p0715 N84-14682
The lock-on-before-launch weapon delivery and display/control consideration 06 p0772 N84-15056
Image processing for low resolution target finders
[FOA-C-30297-E1,E3] 07 p0962 N84-16238
SAR calibration: A technology review
07 p0988 N84-16399
A multiple leg TMA (Target Motion Analysis) procedure with programs for the Hewlett-Packard HP-41CV, the Hewlett-Packard HP-75C, the sharp pC-1500 (TRS-80 pC and the Radio Shack TRS-80 model 100 portable computers
[AD-A134870] 08 p1213 N84-17912
Detection of horizontal bars as a function of length, separation, eccentricity and frequency of temporal modulation: Possible applications to helicopter acquisition
[BAE-BT-11286] 13 p2021 N84-23105
Modelling of visual search performance
[BAE-BT-14588] 13 p2021 N84-23106
A preliminary investigation on the application of robotics to missile fire control
[AD-A140369] 16 p2456 N84-25751
Optical effects of F-16 Canopy-HUD (Head-Up Display) integration
[AD-P003222] 17 p2595 N84-26835
A computer simulation to predict target identification latencies
[AD-P003272] 18 p2907 N84-28437
A comparison of two photogrammetric algorithms for the measurement of model deformation in the National Transonic Facility
[NASA-TM-85830] 18 p2919 N84-28513
Comparison of six integrators used in long-term radar integrations
[AD-A141536] 19 p3005 N84-29046
AN/TPQ-36 and AN/TPQ-37 firefinder radars case study report (IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Research and Maintainability) study
[AD-A142104] 19 p3007 N84-29058
An information-theoretic approach to target estimation of a laser radar tracking system
[AD-A142247] 19 p3006 N84-29067
An optically implemented Kalman filter algorithm
[AD-A141126] 19 p3083 N84-29565
Performance of Beverage antennas at low angles
[DE84-011163] 20 p3175 N84-30164
Results of laser ranging collocations during 1983
20 p3220 N84-30458
Warheads for SAM systems 21 p3351 N84-31257
Sensor correlation and data fusion theory
[AD-A143587] 22 p3649 N84-33133
Target for optically activated seekers and trackers
[AD-D011059] 22 p3655 N84-33171
Doppler-based target localization by a distributed system of omnidirectional sensors
[REPT-3-95] 23 p3729 N84-33636
Range-only multistatic radar system
[AD-D011201] 24 p3896 N84-34671
Pointing, acquisition and tracking for intersatellite optical data links 24 p3905 N84-34735
Continuous wave (CW) diode laser instrumentation for rendezvous and docking maneuvers in geosynchronous orbits 24 p3908 N84-34752
Laser diode range finder - target acquisition and tracking system functional model/demonstration model
24 p3908 N84-34754
Cognitive processes in target acquisition
24 p3914 N84-34783
TARGET MASKING
Visual organization and information processing
[PB84-170778] 15 p2384 N84-25295
TARGET PENETRATION
U TERMINAL BALLISTICS
TARGET RECOGNITION
Optical pattern recognition for missile guidance
[AD-A130097] 01 p0018 N84-10113
Radar waveform synthesis for target identification
[AD-A130363] 01 p0063 N84-10412
A study of texture analysis algorithms
[AD-A131498] 01 p0123 N84-10802
Evaluation of Fourier descriptors for target recognition in digital imagery
[AD-A130182] 01 p0129 N84-10844
Sensor correlation and data fusion theory
[AD-A131510] 01 p0134 N84-10875
Spatial filtering for enhancing point targets in images from a space-based mosaic IR detector
[AD-A132248] 04 p0521 N84-13425
Advanced pattern recognition
[AD-A132339] 04 p0604 N84-13987
Transient waveform synthesis for radar target discrimination 05 p0664 N84-14366
Avionics concept evaluation at the force level
06 p0769 N84-15038
Issues critical to the application of adaptive array antennas to missile seekers
[AD-A133401] 06 p0824 N84-15371
Optimum and sub-optimum processors for multistatic radar systems 06 p0906 N84-15865
Preliminary field tests for detecting flying targets in front of a land background — ground observers
[FOA-C-56033-H2] 08 p1204 N84-17847
Detection of flying targets in front of a land background: Laboratory tests
[FOA-C-56034-H2] 08 p1204 N84-17848
Detection of flying targets in front of a land background: Field tests — human observers
[FOA-C-56035-H2] 08 p1204 N84-17849
Multi-dimensional signal processing research program
[AD-A135732] 09 p1302 N84-18511
Investigation of the effect of the viewing target height on the eye height of sitting Visual Display Unit (VDU) operators
[IZF-1983-9] 12 p1869 N84-22177
Investigation of non-linear estimation of natural resonances in target identification
[AD-A139027] 13 p1984 N84-22878
The effect of haze on an operator's visual field and his target detection performance
[AD-A136330] 13 p2020 N84-23099
A potentially powerful method of simple automatic recognition exhibiting scale and orientation independance — image processing
[BAE-BT-11068] 13 p2021 N84-23102
Some observations on relative approaches to visual acquisition modelling
[BAE-BT-11241] 13 p2021 N84-23104
Incorporation of a PROM spatial light modulator into a system for automatic target recognition and tracking — Pockels Readout Optical Modulator (PROM)
[BAE-BT-12841] 13 p2042 N84-23250
Polarization utilization in radar target reconstruction: C-wide (Multi-frequency) band relationship of a target's characteristic operators with its unique set of natural eigenfrequencies
[AD-A140092] 15 p2321 N84-24938
Electromagnetic wave scattering by partially-buried metallic and dielectric objects
[AD-A140109] 15 p2322 N84-24939
A preliminary investigation on the application of robotics to missile fire control
[AD-A140369] 16 p2456 N84-25751
Imaging by active laser methods
[ESA-TT-804] 16 p2497 N84-26022
Direct performance assessment of HUD (Head-Up Display) display systems using contrast sensitivity
[AD-P003162] 17 p2589 N84-26583

A computer simulation to predict target identification latencies
[AD-P003272] 18 p2907 N84-28437
A comparison of two photogrammetric algorithms for the measurement of model deformation in the National Transonic Facility
[NASA-TM-85830] 18 p2919 N84-28513
Enhanced tracking of airborne targets using multiple model filtering techniques for adaptive field of view expansion
[AD-A141144] 18 p2926 N84-28554
The visibility of stationary and moving targets in the plane subject to a Poisson field of shadowing elements
[AD-A141305] 18 p2927 N84-28562
Approximating the probabilities of detecting and of hitting targets and the probability distribution of the number of trials along the visible portions of curves in the plane subject to a Poisson shadowing process
[AD-A141327] 18 p2927 N84-28563
Comparison of six integrators used in long-term radar integrations
[AD-A141536] 19 p3005 N84-29046
Program master plan
[AD-A141554] 19 p3005 N84-29049
Evaluation of U.S. Coast Guard forward-looking airborne radars
[AD-A142417] 20 p3174 N84-30156
LANTIRN (Low Altitude Navigation and Targeting Infrared System for Night) - tommorrow's software development today
[AD-P003583] 21 p3339 N84-31166
Sensor correlation and data fusion theory
[AD-A143587] 22 p3649 N84-33133
Detecting camouflaged targets: Theory into practice
24 p3914 N84-34784
Autonomous surveillance in the visual spectral region
24 p3914 N84-34786
The theory of Fourier descriptors and how they may be used to characterize shape 24 p3915 N84-34787
Optical processing, its role in surveillance
24 p3915 N84-34788

TARGET SIMULATORS
Synthetic aperture radar target simulator
[NASA-CASE-NPO-15024-1] 18 p2827 N84-27951

TARGET THICKNESS
A study of thick-target X-ray spectra using photonuclear reactions
[AD-A132543] 04 p0596 N84-13934

TARGETS
NT LASER TARGETS
NT PARTICLE ACCELERATOR TARGETS
NT RADAR TARGETS
Range resolution of targets
[AD-A131065] 01 p0067 N84-10437
Optimum multisensor, multitarget localization and tracking
[AD-A129805] 01 p0139 N84-10914
Distributed sensor network
[AD-A131245] 01 p0140 N84-10919
An algorithm for multiple target tracking and data correlation
[AD-A131313] 02 p0273 N84-11786
Beam-target interaction of intense ion beams: Theory and experiment
[DE83-018264] 03 p0436 N84-12858
Ion stopping in heated targets
[DE83-017800] 03 p0447 N84-12941
Expressions for the exact state transition matrix of a nine-state target model
[AD-A132652] 05 p0735 N84-14830
A 650 mm long liquid hydrogen target for use in a high intensity electron beam
[DE84-002552] 06 p0916 N84-15955
Strategies using an observer for steering a random motion of a point in a multitarget environment
[CSIR-TWISK-285] 07 p1049 N84-16794
AQM-61A firebolt
[AD-A135895] 09 p1255 N84-18194
Suboptimal missile evasion through a sensitivity analysis of proportional guidance to target evasion maneuvers
[AD-A136803] 10 p1426 N84-19338
A formulation and analysis of combat games
[NASA-TM-85927] 13 p1935 N84-22585
Decision and display analysis in a simple surveillance problem
[AD-P002866] 13 p1979 N84-22847
Target super-resolution compensation for coherent airborne radar utilizing spread spectrum waveforms
[AD-A136545] 13 p1982 N84-22866
High value target modeling for tactical decision aids
[AD-P002953] 14 p2199 N84-24193
A simulation model to evaluate aircraft survivability and target damage during offensive counterair operations
[AD-A141324] 18 p2793 N84-27728
Spherical heat radiation receiver with white target
18 p2827 N84-27945
Notes on a theory of terrorism
[AD-P003242] 18 p2903 N84-28409
Approximating the probabilities of detecting and of hitting targets and the probability distribution of the number of trials along the visible portions of curves in the plane subject to a Poisson shadowing process
[AD-A141327] 18 p2927 N84-28563
An information-theoretic approach to target estimation of a laser radar tracking system
[AD-A142247] 19 p3008 N84-29067
A computer model for evaluation of launch vehicle and target tracking error assignments for direct ascent, deep space ASAT (Anti-satellite) systems
[AD-A141136] 20 p3134 N84-29696
Firebolt derivative/ramjet engine feasibility investigation (core engine program): Program summary
20 p3144 N84-29962
Evaluation of U.S. Coast Guard forward-looking airborne radars
[AD-A142417] 20 p3174 N84-30156
An advanced host-target environment for the military computer family
[AD-P003428] 20 p3271 N84-30760
Warheads for SAM systems 21 p3351 N84-31257
Using information on tangential target motion in space-time signal processing 21 p3487 N84-32101
Current status of calculations and measurements of ion stopping power in ICF plasmas
[DE84-005880] 21 p3501 N84-32187

TASK COMPLEXITY
Productivity measurement in software engineering
[PB83-227330] 01 p0160 N84-11054
Biofeedback methods and quality of operator's performance 17 p2740 N84-27399
The structure of processing resource demands in monitoring automatic systems
[AD-P003319] 18 p2910 N84-28455
Cockpit data management requirements (current technology aircraft)
[FAA-PM-83-25] 19 p2961 N84-28766
Link between characteristics of EEG rhythms in biofeedback control and indexes for operator activity
21 p3455 N84-31927

TASKS
NT AUDITORY TASKS
NT VISUAL TASKS
Expert systems: Matching techniques to tasks
[AD-A131385] 02 p0279 N84-11826
Vestibulo-ocular reflex gain in man during active versus passive oscillation and the influence of voluntary gaze-control tasks
[AD-A132006] 03 p0415 N84-12717
Organizational-climate dimensions: A conceptual and judgmental analysis
[AD-A132898] 06 p0834 N84-16068
Task conditions versus stable individual differences as determinants of experts' judgement policies
[AD-A134797] 08 p1203 N84-17841
Task differences, stylistic characteristics and physiological arousal
[AD-A134335] 08 p1203 N84-17844
Effects of load, cognitive complexity and type A on satisfaction
[AD-A134415] 08 p1203 N84-17846
Development of speech input/output interfaces for tactical aircraft
[AD-A136485] 09 p1255 N84-18193
A normative model of work team effectiveness
[AD-A136398] 10 p1551 N84-20165
Conceptual framework for the development of workload metrics in sustained operations
11 p1696 N84-21083
The U.S. Air Force neurophysiological workload test battery: Concept and validation
11 p1696 N84-21084
Part-task training of tracking in manual control
[AD-A138346] 12 p1868 N84-22175
The effects of task variability, sensory reinforcement, and monetary reinforcement on performance, satisfaction, and intrinsic motivation 17 p2769 N84-27584
Changes in 'Soyuz T-10' crew work schedule
19 p2971 N84-28829
Safety training priorities
[AD-A141711] 19 p3002 N84-29026
Nonlaboratory techniques for the study of cognitive and decision-making processes: A description and selected bibliography
[AD-A141732] 19 p3067 N84-29458
A multiple processing resource explanation of the subjective dimensions of operator workload
[AD-A141455] 19 p3070 N84-29480
A problem expanding parametric programming method for solving the job shop scheduling problem
[AD-A142392] 20 p3313 N84-31036

TATB
Method of making fine-grained triaminotrinitrobenzene
[DE84-012754] 21 p3374 N84-31413

TAURUS CONSTELLATION
Observations of the interstellar ice grain feature in the Taurus molecular clouds 18 p2948 N84-28691

TAXONOMY
Oligocene and Miocene larger foraminiferida from Australia and New Zealand
[BMR-BULL-188] 23 p3797 N84-34077
Tertiary foraminifera and age of sediments, Ok Tedi-Wabag, Papua New Guinea
[BMR-BULL-216] 23 p3797 N84-34078

TAYLOR INSTABILITY
The evolution equations for Taylor vortices in the small gap limit
[NASA-CR-172249] 01 p0077 N84-10501
Model for the saturation of the hydromagnetic Rayleigh-Taylor instability
[DE83-012629] 01 p0150 N84-10986
Boundary-integral simulations of rayleigh-taylor instability in ideal magnetohydrodynamics
[AD-A131667] 03 p0444 N84-12920
Instabilities in cylindrical plasma liners imploded by high magnetic fields
[DE83-013640] 03 p0445 N84-12921
Complex eigenvalues for the stability of Couette flow
[NASA-CR-172251] 04 p0531 N84-13492
Pattern formation by shock processes
[DE83-015249] 10 p1489 N84-19592
Richtmyer-Meshkov instabilities in stratified fluids
[DE84-005738] 12 p1911 N84-22449
A novel X-ray backlighting method for Rayleigh-Taylor instability measurements on ablatively driven targets
[AD-A138644] 13 p1993 N84-22937
Rayleigh-Taylor instability in the presence of a stratified shear layer
[AD-A138544] 13 p2011 N84-23043
On the structure of rotational instabilities in non-Newtonian fluids 15 p2315 N84-24892
Observation of Rayleigh-Taylor-Like structures in a laser-accelerated foil
[AD-A140294] 16 p2556 N84-26399

TAYLOR SERIES
Method of initial functions for thick shells
13 p2003 N84-22996
On the Taylor approximation of control systems
[AD-A139255] 14 p2212 N84-24285
Relationships between ellipsoid parameters
19 p3040 N84-29288
A Taylor series in symmetry-adaptable functions
[AD-A142336] 20 p3280 N84-30619

TAYLOR THEOREM
U TAYLOR SERIES

TCV PROGRAM
U TERMINAL CONFIGURED VEHICLE PROGRAM

TDMA
U TIME DIVISION MULTIPLE ACCESS

TDR SATELLITES
Symbol synchronization for the TDRSS decoder
[NASA-CR-170603] 02 p0207 N84-11352
Integrated command, control, communication and computation system design study. Summary of tasks performed
[NASA-CR-170611] 02 p0209 N84-11361
An evaluation of Techroll seal flexible joint material
06 p0929 N84-16037
Study of a Tracking and Data Acquisition System (TDAS) in the 1990's
[NASA-CR-173262] 10 p1433 N84-19368
Performance analysis of the word synchronization properties of the outer code in a TDRSS decoder
[NASA-CR-173551] 15 p2319 N84-24921
Autonomous omnidirectional spacecraft antenna system
[NASA-CR-175128] 18 p2832 N84-27980
Tracking and Data Relay Satellite launch recovery mission 20 p3137 N84-29918
Application of TOS/AMS to TDRS E and F
[NASA-CR-171124] 21 p3346 N84-31225
Electronic Switching Spherical Array (ESSA) antenna systems
[NASA-TM-86127] 22 p3572 N84-32821
Autonomous Integrated Receive System (AIRS) requirements definition. Volume 2: Design and development
[NASA-CR-175262] 22 p3576 N84-32647
Autonomous Integrated Receive System (AIRS) requirements definition. Volume 4: Functional specification for the prototype Automated Integrated Receive System (AIRS)
[NASA-CR-175264] 22 p3576 N84-32649

TEA LASERS
A frequency stabilization and trigger control unit for hybrid TEA-CO2 lasers
[AD-A132247] 04 p0540 N84-13552

Manufacturing Methods and Technology (MM&T) program. 10.6 micrometer carbon dioxide TEA (Transversely Excited Atmospheric) lasers
[AD-A137490] 10 p1500 N84-19805
Study of emission spectrum of tea CO2 lasers with intracavity absorber 21 p3466 N84-32094
A compact frequency-stable pulsed CO-2 laser
[AD-A143218] 22 p3600 N84-32806
The use of TEA and multiatmosphere CO2 lasers in active remote sensing 24 p3907 N84-34749

TEACHING
U EDUCATION

TEACHING MACHINES
Successful use of microcomputers in classroom instruction
[RAND/P-6653] 12 p1878 N84-22229
Special features of information presentation in teaching systems
[BLL-M-35604-(5828.4)] 21 p3516 N84-32273

TEAMS
A normative model of work team effectiveness
[AD-A136396] 10 p1551 N84-20165

TEARING
Experimental investigation of tearing-instability phenomena for structural materials
[DE83-900676] 01 p0097 N84-10629
The effects of specimen size, specimen geometry and data analysis procedures on ductile crack growth resistance curves
[AERE-R-10906] 01 p0098 N84-10638
Particle-tear energy contribution to the toughness of rubber-modified epoxies
[DE83-010396] 02 p0188 N84-11223
Rubber to backing bond strength for stave bearings
[AD-A140513] 16 p2499 N84-26033
Impact dynamics research on composite transport structures 20 p3146 N84-29975
J-integral tearing instability analysis for 8-inch diameter ASTM A106 steel pipe
[AD-A142589] 20 p3153 N84-30023

TEARING MODES (PLASMAS)
Nonlinear kinetic theory of a single helicity tearing instability
[DE84-000049] 04 p0610 N84-14024
Active experiments and single ion motion in the magnetotail 05 p0641 N84-14219
Computations of the current profile influence on tearing instability
[NASA-TM-77285] 06 p0920 N84-15981
Sustained self-reversal in the reversed field pinch
[DE84-001559] 06 p0921 N84-15990
Fast collisionless tearing in an anisotropic neutral sheet
[NASA-CR-175415] 11 p1737 N84-21331
Theory of anomalous tearing mode growth and the major Tokamak disruption
[DE84-005383] 12 p1911 N84-22448
Computer modeling of fast collisionless reconnection
[DE84-006714] 14 p2229 N84-24367
Saturated tearing modes in Tokamaks, renewal proposal
[DE84-008851] 14 p2229 N84-24370
Nonlinear dynamics of magnetic islands with curvature and pressure
[DE84-010968] 20 p3265 N84-30859
A survey of the methods of MHD analysis of magnetic islands
[DE84-008858] 21 p3502 N84-32197
Reliability of initial-value MHD calculations of Tokamak disruptions
[DE84-013600] 22 p3859 N84-33193

TECHNETIUM
Raman studies of CuTCNQ: Resonance Raman spectral observations and calculations for TCNQ ion-radicals
[AD-A130570] 01 p0037 N84-10231

TECHNETIUM COMPOUNDS
Environmental behavior of Technetium-99
[DP-1644] 06 p0805 N84-15245

TECHNICAL WRITING
Designing readable and reusable tables
[RAND/P-6945] 14 p2247 N84-24496
German-English technical glossary
[DE84-007978] 15 p2418 N84-25521
Integrated Record Input System (IRIS) for the DOE/Technical Information Center
[DE84-008494] 18 p2945 N84-28675
Air Force Academy Aeronautics Digest
[AD-A142399] 20 p3125 N84-29849
Practical writing and editing techniques
[DE84-012642] 21 p3519 N84-32294

TECHNIQUES
U METHODOLOGY

TECHNOLOGICAL FORECASTING
NT DELPHI METHOD (FORECASTING)
NT PATTERN METHOD (FORECASTING)
NT PROFILE METHOD (FORECASTING)
The future of materials
[REPT-2/1982] 02 p0205 N84-11340
Energy-efficient automobiles for the future
[DE84-000800] 04 p0617 N84-14073
The 8th FAA Forecast Conference Proceedings
[AD-A132646] 05 p0626 N84-14114
Avduyevskiy on accomplishments and prospects of cosmonautics 05 p0634 N84-14168
Trends in steam turbine design, testing and manufacturing 06 p0840 N84-15478
Statistical trend analysis methodology for rare failures in changing technical systems
[JUEL-SPEZ-215] 07 p1067 N84-16928
Effects on rail transport caused by air transport supply alternatives within the Federal Republic of Germany for the year 2000
[DFVLR-MITT-83-14] 08 p1101 N84-17160
Developments in cabin safety and crashworthiness — passenger aircraft 08 p1101 N84-17161
Space Station needs, attributes and architectural options. Volume 2, book 1, part 3: Manned Space Station relevance to commercial telecommunications satellites
[NASA-CR-173314] 09 p1270 N84-18298
European technology requirements on space automation and teleoperation 09 p1297 N84-18477
Study of a Tracking and Data Acquisition System (TDAS) in the 1990's
[NASA-CR-173262] 10 p1433 N84-19368
Future trends in spacecraft thermal control designs 10 p1439 N84-19397
Development prospects for land mobile radio systems in Italy 10 p1477 N84-19650
Study of a satellite communication system for wideband communications: Executive summary
[ESA-CR(P)-1839] 12 p1809 N84-21795
Low-temperature IPH parabolic troughs: Design variations and cost-reduction potential
[DE84-000024] 12 p1843 N84-22016
The accelerating pace of advancing aero engine technology
[PNR-90191] 13 p1934 N84-22577
Fuel efficient engines for large transport — aircraft
[PNR-90196] 13 p1934 N84-22580
The future for titanium and superalloys — in aircraft engines
[PNR-90175] 13 p1961 N84-22742
Bibliography of Soviet Laser Developments, Number 63, January-February 1983
[AD-A138742] 13 p1995 N84-22948
Publication in professional journals in science and engineering: A survey of editorial procedures and opinion
[AD-A138913] 13 p2064 N84-23385
Use of economic mechanisms in managing scientific and technical progress 13 p2064 N84-23389
Beyond the data base: Technology for information resource management
[AD-A138840] 13 p2067 N84-23402
Future engine technologies and their effect on maintenance — aircraft engines
[PNR-90190] 14 p2110 N84-23651
Future space transport
[NASA-TM-77554] 14 p2114 N84-23668
Aviation fuel specification requirements: Their significance and future trends 15 p2289 N84-24733
Second-generation Meteosat: System study, executive summary
[ESA-SP-1063] 15 p2371 N84-25224
Future of aeronautics
[GPO-29-744] 15 p2419 N84-25529
Spaceborne sensors (1983-2000 AD): A forecast of technology
[NASA-TM-86083] 17 p2616 N84-26743
P/M superalloys: A troubled adolescent?
[NASA-TM-83623] 17 p2622 N84-26785
Interplanetary mission design handbook. Volume 1, part 1: Earth to Venus ballistic mission opportunities, 1991-2005
[NASA-CR-173736] 18 p2801 N84-27779
Space station needs, attributes, and architectural options: Technology development
[NASA-CR-173697] 18 p2803 N84-27789
A study of space station needs, attributes and architectural options, volume 2, technical. Book 3: Economic benefits, costs and programmatics
[NASA-CR-173689] 18 p2805 N84-27807
Astronomical Microdensitometry Conference
[NASA-CP-2317] 18 p2839 N84-28020
A next generation microdensitometer?
18 p2842 N84-28044
Advancement of remote technology: Past perspectives and future plans
[DE84-006517] 18 p2849 N84-28092
Hybrid vehicle assessment. Phase 1: Petroleum savings analysis
[NASA-CR-173741] 18 p2947 N84-28682
Space Station Systems Technology Study. Volume 2: Trade study and technical selection technical report
[NASA-CR-173776] 19 p2981 N84-28691
Technology development for tapered-wiggler free-electron lasers
[AD-A142319] 19 p3029 N84-29213
Program for Regional Observing and Forecasting Services (PROFS)
[PB84-179928] 20 p3248 N84-30618
New directions in linear accelerators
[DE84-011412] 20 p3294 N84-30911
Science and technology report to the Congress, 1982
[DE84-901150] 20 p3313 N84-31040
Future requirements for airborne simulation
[AGARD-AR-188] 22 p3538 N84-32401
Impact of robots and computers on the work force of the 1980's
[GPO-31-912] 22 p3603 N84-32826
National Aeronautics and Space Administration Authorization Act, 1985
[PUB-LAW-98-361] 22 p3676 N84-33303

TECHNOLOGIES
NT BIOTECHNOLOGY
NT BUBBLE TECHNIQUE
NT ENERGY TECHNOLOGY
NT GEOTHERMAL TECHNOLOGY
NT MARINE TECHNOLOGY
NT MILITARY TECHNOLOGY
NT REACTOR TECHNOLOGY
A comparative evaluation of quantitative decision-making approaches
[PB83-214114] 01 p0159 N84-11051
National Science Foundation authorization, 1984 authorization
[GPO-21-260] 02 p0303 N84-11990
Scientific and technical information system for the Washington State Legislature
[PB84-100650] 08 p1241 N84-18112
The automated information retrieval system in the field of science and science Policy--AWION
[AD-A135565] 09 p1404 N84-19174
Role of technology in promoting industrial competitiveness
[S-REPT-98-565] 10 p1471 N84-19805
Evaluation of advanced technologies for power transformers
[DE84-004046] 10 p1487 N84-19719
Research activities in advanced techniques 16 p2565 N84-26456
West Europe report: Science and technology. FRG: Concept paper on microelectronics, communications technology
[JPRS-WST-84-023] 18 p2835 N84-27996
Visual display technology: A developing challenge for the behavioral scientist
[AD-P003290] 18 p2908 N84-28441
Behavioral issues in the management of technology
[AD-P003349] 18 p2912 N84-28467
NASA-Ames Summer High School Apprenticeship Research Program (SHARP)
[NASA-TM-85554] 18 p2943 N84-28681
Scientific and technical training in the Soviet Union
[NASA-TM-86252] 18 p2954 N84-28725
Directory of Federal technology resources, 1984
[PB84-100015] 19 p3115 N84-29793
Technical assistance and information dissemination for the appropriate technology small grants program
[DE84-010657] 20 p3313 N84-31042
Broadband cavity-backed slot using printed circuit technology
[AD-P003508] 21 p3384 N84-31476
Directory of computerized data files, 1984
[PB84-160126] 21 p3520 N84-32303
Technology, innovation and regional economic development. Background paper 2: Encouraging high-technology development
[PB84-180181] 21 p3522 N84-32310
Advanced development program, books 4 and 5
[NAS 1.15:86652-BK-4/5] 23 p3699 N84-33441
Powder metallurgy R and D organizations featured 23 p3707 N84-33502

TECHNOLOGY ASSESSMENT
Scientific-production complexes organized in Georgia 01 p0056 N84-10362
An overview of artificial intelligence and robotics. Volume 1: Artificial intelligence. Part B: Applications
[NASA-TM-85838] 01 p0128 N84-10634
Technology assessment of productive conservation in urban transportation
[DE83-012179] 01 p0163 N84-11070
Investigation of the precision and utilization of a digital barometer based on the piezoresistive principle 02 p0233 N84-11531
Computer science and technology: Microcomputer: A review of federal agency experiences
[PB83-238972] 02 p0271 N84-11772

Airport and air traffic control system
[OTA-STI-175] 03 p0329 N84-12143
Auxiliary power requirements: Their role in aircraft performance 03 p0334 N84-12169
The OTS: Fifth year in orbit 03 p0342 N84-12221
Some comments on longevity by a technologist 03 p0346 N84-12247
Arizona State science, engineering and technology process
[PB83-237107] 03 p0458 N84-13016
Current state of titanium coating methods
[BLL-OA-TRANS-3067-(6196.3)] 04 p0498 N84-13266
Sprinklers 04 p0510 N84-13345
A proposed RF-technology R/D plan for the United States
[DE84-000643] 04 p0522 N84-13434
Assessment of the adequacy of US accelerator technology for Department of Energy Missions
[DE84-001632] 04 p0598 N84-13945
Space reactor system and subsystem investigations: Assessment of technology issues for the reactor and shield subsystem, SP-100 Program
[DE84-001586] 04 p0603 N84-13979
d-d Tokamak reactor assessment
[DE83-016127] 04 p0609 N84-14019
Technology assessment: 1983 forecast of future test technology requirements
[AD-A132421] 04 p0623 N84-14107
The 8th FAA Forecast Conference Proceedings
[AD-A132846] 05 p0626 N84-14114
Efficiency of compressed-air systems
[DE84-002590] 05 p0663 N84-14361
Workshop on Repetitive Spark Gap Operation
[AD-A132688] 05 p0675 N84-14438
Avionics/crew station integration 06 p0769 N84-15042
Resin development in advanced composites
[FOA-C-20509-F9] 06 p0799 N84-15208
Microwave tubes: Literature survey number 4, comprising the year 1982
[FOA-C-30331-E] 06 p0831 N84-15407
A review of current research activity on the aerodynamics of axial flow turbines 06 p0841 N84-15480
State-to-state unimolecular reaction dynamics
[DE84-003009] 06 p0916 N84-15952
Aeronautical propulsion: Present status and future directions
[NASA-TM-83589] 07 p0943 N84-16119
Phased-array-fed antenna configuration study. Volume 1: Technology assessment
[NASA-CR-168231] 07 p0991 N84-16423
Fusion reactors: Physics and technology
[DE83-017148] 08 p1232 N84-18055
Systems/operations technology 09 p1268 N84-18278
Auxiliary propulsion 09 p1268 N84-18283
Fluid management 09 p1268 N84-18284
Spaceborne Gravity Gradiometers. Part 3: Instrument status and prospects 09 p1335 N84-18719
Tracking and data acquisition system for the 1990's. Volume 7: TDAS space technology assessment
[NASA-CR-175199] 10 p1434 N84-19375
Improved paint removal technique
[AD-A136671] 10 p1467 N84-19580
Water and alcohol use in automotive diesel engines: Alternative Fuels Utilization Program
[DE84-004196] 10 p1470 N84-19603
European Scientific Notes, Volume 38, Number 2
[AD-A137652] 11 p1746 N84-21394
Research planning task group study-thermal destruction
[PB84-145119] 12 p1804 N84-21764
Mechanical face seal technology: A literature survey
[AD-A136434] 12 p1822 N84-21881
An assessment of advanced technology for industrial cogeneration
[NASA-CR-173456] 12 p1841 N84-22001
Evaluation of 3-D graphics software: A case study 12 p1875 N84-22222
East Europe report: Scientific affairs
[JPRS-ESA-84-010] 12 p1897 N84-22356
Active Program Research Requirements (APRR), volume 1
[DE84-002141] 12 p1921 N84-22513
Advanced planetary studies
[NASA-CR-173496] 13 p1936 N84-22591
Space Station Systems Technology Study. Volume 3: Technology and Advancement Program Plan
[NASA-CR-171016] 13 p1940 N84-22613
Space Station Systems Technology Study. Volume 1: Executive summary
[NASA-CR-171014] 13 p1940 N84-22614
West Europe report: Science and technology
[JPRS-WST-84-011] 13 p2036 N84-23224
USSR report: Science and technology policy
[JPRS-UST-84-004] 13 p2064 N84-23387
Technical and economic indicators for industrial technological institutes 13 p2065 N84-23392
USSR report: Science and technology policy
[JPRS-UST-84-005] 13 p2065 N84-23394
Prerequisites for scientific-technical progress enumerated 13 p2065 N84-23395
Design of advanced technology maneuvering aircraft models for the National Transonic Facility 14 p2098 N84-23590
DARPA (Defense Advanced Research Projects Agency) air vehicles technology office technical task order contract
[AD-A136887] 14 p2105 N84-23625
NASA broad-specification fuels combustion technology program 14 p2107 N84-23637
The evaluation of rain gages, illustrated by the Thies rain gage and the electrical rain gage of the Royal Netherlands Meteorological Institute (KNMI)
[KNMI-WR-83-16] 14 p2180 N84-24057
A guidebook for software reliability assessment
[AD-A139240] 14 p2205 N84-24233
Workshop on Arms Control in Space
[LC-84-601064] 14 p2248 N84-24505
Image dissector tube star trackers performance: Advantages and drawbacks as compared to those of charge transfer device star trackers 15 p2266 N84-24606
Status and new directions for solid lubricant coatings and composite materials 15 p2341 N84-25055
Basic and applied research related to the technology of space energy conversion systems, 1982 - 1983
[NASA-CR-173554] 15 p2361 N84-25168
Whole building performance monitoring: Measurements on baseline buildings 16 p2515 N84-26145
Passive solar design guidelines and evaluation criteria for builders 16 p2516 N84-26153
Trends in data communication by computer networks in space missions
[INPE-3068-PRE/485] 16 p2545 N84-26338
Status and future application of the RF-propulsion systems RITA including interplanetary missions
[MBB-UR-646-83-O] 16 p2563 N84-26444
Report to Congress of the Office of Technology Assessment
[PB84-173814] 16 p2568 N84-26482
Transparency technology needs for military aircraft
[AD-P003191] 17 p2590 N84-26604
P/M superalloys: A troubled adolescent?
[NASA-TM-83623] 17 p2622 N84-26785
Space station needs, attributes, and architectural options: Technology development
[NASA-CR-173697] 18 p2803 N84-27789
Space station needs, attributes, and architectural options: Brief analysis
[NASA-CR-173695] 18 p2803 N84-27791
A study of space station needs, attributes and architectural options, volume 2, technical. Book 3: Economic benefits, costs and programmatics
[NASA-CR-173689] 18 p2805 N84-27807
Space station needs, attributes and architectural options: Midterm review, executive overview
[NASA-CR-173707] 18 p2806 N84-27818
An appraisal of straight bladed vertical and horizontal windmills
[PP-127] 18 p2876 N84-28264
GDR robotron office computers 18 p2918 N84-28502
Electronics seminar contributions enumerated 18 p2918 N84-28506
Space Station Systems Technology Study. Volume 2: Trade study and technical selection technical report
[NASA-CR-173776] 19 p2961 N84-28891
Lead 19 p2992 N84-28959
The NASA welding assessment program 19 p3048 N84-29339
Fluorspar 19 p3053 N84-29375
Salyut: Soviet steps toward permanent human presence in space
[PB84-181437] 20 p3135 N84-29805
Electronics Division research and development
[DE84-011024] 20 p3180 N84-30200
Initial insights on robotics
[DE84-010768] 20 p3197 N84-30302
Thematic Mapper (TM) instrument description 20 p3205 N84-30363
Thematic Mapper sensor characteristics 20 p3206 N84-30365
Photovoltaic concentrators: Present status and future role
[DE84-005520] 20 p3235 N84-30532
New directions in linear accelerators
[DE84-011412] 20 p3294 N84-30911
Magnetic fusion energy plasma interactive and high heat flux components. Volume 1: Technical assessment of the critical issues and problem areas in the plasma materials interaction field
[DE84-011527] 20 p3302 N84-30969
Appropriate Technology Small Grants Program evaluation, volume 1: Executive summary
[DE84-010675] 20 p3313 N84-31036
Science and technology report to the Congress, 1982
[DE84-901150] 20 p3313 N84-31040
National Airspace Review: Implementation plan
[AD-A145379] 21 p3327 N84-31107
Dehydration of aluminum chloride hexahydrates: A technical assessment
[DE84-013066] 21 p3362 N84-31328
Automation of a stamping press using sequential hydraulic manipulators
[CETIM-1-4N-090] 21 p3376 N84-31422
Embedded information transfer technology assessment
[AD-A142649] 21 p3391 N84-31518
State of technology of direct contact heat exchanging
[DE84-012824] 21 p3402 N84-31585
State of techniques for crackling varnishes and problems posed by their application
[CETIM-1.5C.23.1] 21 p3424 N84-31723
Activities of the Remote Sensing Information Sciences Research Group
[E84-10177] 21 p3427 N84-31739
USSR report: Life sciences. Biomedical and behavioral sciences
[JPRS-UBB-84-017] 21 p3455 N84-31924
Microgravity Science Applications Bibliography: 1984 revision
[NASA-TM-86651] 21 p3518 N84-32283
Technology, innovation and regional economic development. Background paper 2: Encouraging high-technology development
[PB84-180181] 21 p3522 N84-32310
Large Deployable Reflector Science and Technology Workshop. Volume 3: Systems and Technology Assessment
[NASA-CP-2275-VOL-3] 21 p3523 N84-32318
Technology Panel reports 21 p3523 N84-32320
The NASA photovoltaic technology program
[NASA-TM-83685] 22 p3542 N84-32426
Metal coating of diamond abrasives (review of foreign patents)
[CSIR-TRANS-1740] 22 p3552 N84-32489
Pastes of superhard materials (review of inventions)
[CSIR-TRANS-1741] 22 p3552 N84-32491
Processing and consolidation of rapidly solidified alloys: A technology assessment
[DE84-014673] 22 p3557 N84-32523
Coatings on diamond and CBN abrasives (review of inventions)
[CSIR-TRANS-1742] 22 p3557 N84-32525
Superfluid helium 2 liquid-vapor phase separation: Technology assessment
[NASA-TM-85986] 22 p3593 N84-32752
Parts on demand: Evaluation of approaches to achieve flexible manufacturing systems for Navy parts on demand, volume 1
[AD-A143248] 22 p3604 N84-32830
Ten year trends in US technological dependence on foreign technology as indicated by referencing from US patents. Appendix
[PB84-196997] 22 p3669 N84-33255
Ten year trends in US technological dependence on foreign technology as indicated by referencing from US patents
[PB84-197003] 22 p3669 N84-33256
The application of fiber optics in aircraft instrumentation: Technology assessment
[NLR-TR-83048-U] 23 p3694 N84-33409
Manufacturing developments to reduce strategic materials usage 23 p3703 N84-33475
The Navy program to develop replacements for critical and strategic materials 23 p3704 N84-33478
Recycling conform design 23 p3705 N84-33488
Information Package: Windpower utilization 23 p3785 N84-34005
USSR report: Life sciences. Biomedical and behavioral sciences
[JPRS-UBB-84-020] 23 p3805 N84-34128
A survey of state-of-the-art LORAN-C receivers
[AD-A144199] 24 p3853 N84-34434
USSR report: Machine tools and metalworking equipment
[JPRS-UMM-84-017] 24 p3891 N84-34640
Solid state batteries, literature survey, analysis of pertinent results and prospective for further research
[AD-A144252] 24 p3897 N84-34679
East Europe report: Science and technology
[JPRS-ESA-84-027] 24 p3943 N84-34963

Development of microelectronics described
24 p3943 N84-34966
East European report: Science and technology
[JPRS-ESA-84-031] 24 p3960 N84-35071
Selections on computer technology in CSSR: Computers yesterday and today
24 p3960 N84-35072
R-35 computer shortcomings
24 p3961 N84-35080

TECHNOLOGY TRANSFER
NT AEROSPACE TECHNOLOGY TRANSFER
Geothermal Elastomeric Materials Technology Transfer (GEM-TT) Program
[DE83-013118] 01 p0050 N84-10325
USSR report: Science and technology, no. 19
[JPRS-84497] 01 p0054 N84-10348
Trade agreements on know-how discussed
01 p0054 N84-10349
Measures to step up practical use of scientific work discussed 01 p0054 N84-10350
Use of scientific potential in industry discusses
01 p0055 N84-10353
Designers voice complaints, suggestions regarding their work 01 p0055 N84-10354
Soviet economist discusses efficient use of scientific potential 01 p0055 N84-10355
Scientist discusses problems in introducing new technology 01 p0055 N84-10357
Effect from introduction of new technology in the Georgian SSR 01 p0056 N84-10361
USSR report: Science and technology policy, no. 18
[JPRS-84484] 01 p0157 N84-11034
The socialist and developing countries: Technology transfer 01 p0157 N84-11035
Scientific, technical cooperation among CEMA member-countries urged 01 p0157 N84-11036
Organizational improvements in CEMA scientific, technical cooperation sought 01 p0158 N84-11039
Lack of support for introduction of Soviet inventions scored 01 p0158 N84-11042
Applications of academic research neglected by industry 01 p0158 N84-11044
Science and technology programs discussed
01 p0158 N84-11045
TIS (Technology Information System): A focal point for technology transfer
[AD-A130798] 01 p0161 N84-11060
Information technology and development series. Volume 2: Informatics and industrial development. Proceedings of the International Conference on Policies for Information Processing for Developing Countries
[AD-A130796] 01 p0162 N84-11063
Spinoff, 1983
[NASA-TM-85475] 03 p0461 N84-13033
A proposed RF-technology R/D plan for the United States
[DE84-000643] 04 p0522 N84-13434
Study on extremizing adaptive systems and applications to synthetic aperture radars
[AD-A133945] 05 p0667 N84-14385
Relevance of rock mechanics to gun propellants
[DE84-002010] 05 p0704 N84-14620
Development of flight mechanics research in Brunswick 07 p0944 N84-16121
Identification of new potential scientific and technology areas for DoD application. Summary of activities
[AD-A134372] 07 p1084 N84-17050
National Bureau of Standards Journal of Research, volume 88, no. 4, July - August 1983
[PB84-115849] 08 p1163 N84-17571
Joint industry/university cooperation with federally supported research facilities
[GPO-24-902] 08 p1241 N84-18115
Structures and mechanisms 09 p1269 N84-18286
The changing world of geomagnetism: A brief history relating to magnetic observatories
09 p1343 N84-18776
Proceedings of the Fourth Meeting of the LANDSAT Technical Working Group (LTWG). Attachments
[LIB-PRO-0012] 10 p1523 N84-19971
LANDSAT-4 commercialization update
10 p1523 N84-19974
Integrated Computer-Aided Manufacturing (ICAM) architecture. Part 3, volume 2: Procedures
[AD-A137422] 10 p1563 N84-20240
Flying qualities criteria for superaugmented aircraft
11 p1615 N84-20569
The commercialization of meteorological and land remote-sensing satellites
[GPO-20-901] 11 p1622 N84-20614
Manufacturing information system
[AD-A137891] 11 p1641 N84-20730
Management of aerospace contract documentation by industry and government
[DE84-900451] 11 p1746 N84-21396
ORNL trends and balances, 1984-1989
[DE84-006320] 11 p1746 N84-21397
Advanced turbocharger design study program
[NASA-CR-174633] 12 p1822 N84-21879
Installation representative guide
[DE83-008451] 12 p1878 N84-22241
Fiber-optics symposium, scientific agreement describe
12 p1897 N84-22358
Classification management. Journal of the National Classification Management Society, volume 18, 1982
[AD-A138480] 12 p1919 N84-22502
West Europe report: Science and technology
[JPRS-WST-84-011] 13 p2038 N84-23224
The government relationship to industry in technology transfer and development
[AD-P002772] 13 p2053 N84-23319
USSR report: Science and technology policy
[JPRS-UST-84-005] 13 p2065 N84-23394
Problems of prompt adoption of new technology discussed 13 p2065 N84-23396
West Europe report: Science and technology
[JPRS-WST-84-013] 14 p2118 N84-23694
Technology transfer of the air quality assessment model
[AD-A139582] 14 p2173 N84-24018
USSR report: Machine tools and metalworking equipment
[JPRS-UMM-84-009] 14 p2188 N84-24106
Level of robotization of Kazakhstan industry viewed
14 p2188 N84-24112
Proceedings of the Fourth Meeting of the LANDSAT Technical Working Group (LTWG), volume 1
[LIB-PRO-0012-VOL-1] 15 p2357 N84-25144
Middle East Technical University Journal of Pure and Applied Sciences, volume 15, no. 3
15 p2401 N84-25411
European scientific notes. Volume 38, Number 4
[AD-A140039] 15 p2416 N84-25506
Technology transfer
[H-REPT-98-15] 15 p2419 N84-25528
Nonaerospace uses of JPL technology: A report on technology transfer
[NASA-CR-172904] 15 p2429 N84-25588
Labeled cells as research, diagnostic and therapeutic tools 15 p2429 N84-25589
Computer-assisted chromosome analysis
15 p2430 N84-25590
SAMICS: Engineering/economic model to predict costs 15 p2430 N84-25591
Mass spectrometer for simultaneous detection of ions over wide range of mass 15 p2430 N84-25592
Digital image processing of muscle biopsies
15 p2430 N84-25593
Artificial blood substitutes 15 p2430 N84-25594
A laboratory approach to technology transfer: The passive solar cooling system concept example
16 p2516 N84-26152
The process of technological innovation: Reviewing the literature 16 p2566 N84-26466
Technology transfer dichotomies
[AD-A140387] 16 p2567 N84-26472
Transatlantic policy divergencies: Implications for the United States
[AD-A140574] 17 p2773 N84-27606
Status of advanced airfoil tests in the Langley 0.3-meter transonic cryogenic tunnel 18 p2783 N84-27664
Non-DOE-sponsored domestic dish activities
18 p2872 N84-28234
East Europe Report: Science and technology. Czechoslovakia: Computer technology examined
[JPRS-ESA-84-022] 18 p2918 N84-28499
Exhibit of new technology 18 p2918 N84-28505
Directory of Federal technology resources, 1984
[PB84-100015] 19 p3115 N84-29793
Survey and analysis of materials research and development at selected federal laboratories
[DE84-006904] 20 p3145 N84-29957
Remote sensing and the private sector: Issues for discussion
[PB84-160777] 20 p3229 N84-30520
Program for Regional Observing and Forecasting Services (PROFS)
[PB84-179928] 20 p3248 N84-30618
US technology transfer to China
[GPO-29-567] 20 p3318 N84-31084
Microgravity Science Applications Bibliography: 1984 revision
[NASA-TM-86651] 21 p3518 N84-32283
Technology transfer revisited
[DE84-012233] 21 p3519 N84-32293
Technology Base Research Project for Electrochemical Energy Storage
[DE84-013877] 22 p3619 N84-32930
Ten year trends in US technological dependence on foreign technology as indicated by referencing from US patents. Appendix
[PB84-196997] 22 p3669 N84-33255
Ten year trends in US technological dependence on foreign technology as indicated by referencing from US patents
[PB84-197003] 22 p3669 N84-33256
Interactive information environments: A plan for enabling interdisciplinary research
[RAND/N-2115] 22 p3673 N84-33284
Scientific and technical information transfer: Issues and options
[RAND/N-2131-NSF] 22 p3673 N84-33286
European scientific notes, Volume 38, Number 7
[AD-A143238] 22 p3674 N84-33287
The Land Remote-Sensing Commercialization Act of 1984
[GPO-33-947] 23 p3782 N84-33848
European scientific notes
[AD-A144223] 24 p3995 N84-35284

TECHNOLOGY UTILIZATION
USSR report: Science and technology, no. 19
[JPRS-84497] 01 p0054 N84-10348
Contributions of academic institutes to effectiveness of new technology in the Georgian SSR
01 p0056 N84-10363
Work of Estonian Astrophysics and Atmospheric Physics Institute described 01 p0056 N84-10364
Investigation of the precision and utilization of a digital barometer based on the piezoresistive principle
02 p0233 N84-11531
New opportunities for old measuring methods by using Automatic Seconds Theodolites (AST)
02 p0234 N84-11533
Spinoff, 1983
[NASA-TM-85475] 03 p0461 N84-13033
Developing computer-graphics programs for specialized applications
[DE83-016181] 04 p0581 N84-13836
Fluidics: Basic components and applications
[AD-A134048] 05 p0679 N84-14465
Symposium on Computers in Construction
[CSIR-S-285] 05 p0717 N84-14695
Site computers 05 p0717 N84-14701
Computers for the smaller contractors
05 p0718 N84-14703
Thermohydraulic applications of liquid metals in the non-nuclear field 06 p0843 N84-15501
Artificial intelligence: An analysis of potential applications to training, performance measurement, and job performance aiding
[AD-A133592] 06 p0900 N84-15839
Chicago Meets Outer Space program
[NASA-TM-85492] 06 p0927 N84-16021
Further delineation of the utilization of scientific literature by U.S. patents
[PB84-100734] 08 p1238 N84-18095
The complementary roles of existing and advanced environmental, thermal control and life support technology for space stations 10 p1443 N84-19429
Prospects of the plasma focus for magnetic fusion
10 p1585 N84-20366
Industrial and marine engine derivatives: A spin-off from aviation — gas turbine engines
[PNR-90197] 13 p1934 N84-22581
West Europe report: Science and technology
[JPRS-WST-84-011] 13 p2038 N84-23224
Qualities of SEP ceramic-ceramic Cerasep composites
13 p2038 N84-23225
Incentives for new production discussed
13 p2064 N84-23388
Second interim briefing (D3). Evolutionary Science and Applications Space Platform. Characterization of concepts, tasks A and B
[NASA-CR-173521] 14 p2115 N84-23671
Advanced Platform Systems Technology study. Volume 3: Supporting data
[NASA-CR-173523] 14 p2115 N84-23673
USSR report: Machine tools and metalworking equipment
[JPRS-UMM-84-009] 14 p2188 N84-24106
Impact of Latvian Robotics Institute on industry modernization 14 p2188 N84-24110
Belorussia's industry robotization program discussed
14 p2188 N84-24111
Level of robotization of Kazakhstan industry viewed
14 p2188 N84-24112
Status and new directions for solid lubricant coatings and composite materials 15 p2341 N84-25055
Practical applications and uses of solid lubricant films
15 p2342 N84-25056
Technology transfer
[H-REPT-98-15] 15 p2419 N84-25528

Heap pumps marketing problems and the role played by the financial incentives provided by the law 306/82
[CISE-2149] 16 p2487 N84-25950
Microcomputers: Introduction to features and uses
[PB84-178621] 17 p2750 N84-27456
Space station needs, attributes, and architectural options: Technology development
[NASA-CR-173697] 18 p2803 N84-27789
Space station needs, attributes and architectural options: Midterm review, executive overview
[NASA-CR-173707] 18 p2806 N84-27818
Weather modification technology shown at all-union conference 18 p2855 N84-28133
Computer-automated technological innovation in three manufacturing sectors
[AD-P003309] 18 p2909 N84-28450
The use of space laboratories for materials investigations, process engineering, and scientific purposes 20 p3133 N84-29895
Calibration of TM data from ground-based measurements 20 p3200 N84-30385
Study of Thematic Mapper and Multispectral Scanner data applications 20 p3215 N84-30421
National Weather Service hurricane probability program
[PB84-182757] 20 p3248 N84-30619
Modern structure materials: Present situation and evolution perspectives — aircraft construction materials
[SNIAS-841-551-103] 21 p3328 N84-31118
Practical applications of a space station
[NASA-CR-173672] 21 p3353 N84-31270
Investigations of mechanical properties of high strength steels and their suitability for glass lining
[BMFT-FB-T-84-076] 21 p3368 N84-31370
Preliminary investigations of means to transfer computer programs to the forging industry
[CETIM-1.3K.38.2] 21 p3467 N84-31983
Text processing in the writing of contracts
[SNIAS-841-422-102] 21 p3519 N84-32297
Design and selection of bypass diodes 22 p3582 N84-32688
A user view of office automation or the integrated workstation 22 p3671 N84-33271
The application of fiber optics in aircraft instrumentation: Technology assessment
[NLR-TR-83048-U] 23 p3694 N84-33409
Investigations of magnetic wires for sensor applications
[BMFT-FB-T-84-110] 23 p3752 N84-33787
The applicability of improved remote sensing data for lithological and structural mapping 23 p3770 N84-33899
Windpower utilization possibilities 23 p3785 N84-34007
Commercial Space Launch Act
[H-REPT-98-816] 23 p3835 N84-34329
Development of microelectronics described 24 p3943 N84-34966

TECTONIC MOVEMENT
U TECTONICS

TECTONICS
The NASA Geodynamics Program: An overview
[NASA-TP-2147] 01 p0104 N84-10675
Lateral variations in geologic structure and tectonic setting from remote sensing data
[AD-A130758] 01 p0105 N84-10683
Geophysics and tectonic development of the Caroline Basin
[AD-A131314] 02 p0258 N84-11686
Geology of faults exposed in trenches in Crater Flat, Nye County, Nevada
[DE84-000181] 04 p0564 N84-13716
Investigation of antarctic crust and upper mantle using MAGSAT and other geophysical data
[E84-10055] 06 p0864 N84-15627
Combined use of remote sensing and seismic observations to infer geologically recent crustal deformation, active faulting, and stress fields — California and Pennsylvania
[E84-10057] 06 p0864 N84-15628
Geodesy and geotectonics 07 p1029 N84-16666
Lithological characterization of crystalline basement rock provinces of the interior of the United States
[NASA-CR-175180] 08 p1186 N84-17727
Is the Kapuskasing structure the site of a cryptic suture 11 p1678 N84-20949
Venus topography: Clue to hot-lithosphere tectonics? 11 p1679 N84-20958
Tectonic deformation of the Andes and the configuration of the subducted slab in central Peru: Results from a micro-seismic experiment
[NASA-CR-175445] 11 p1681 N84-20972
New maps of Lakshmi Planum and eastern Aphrodite, Venus 13 p2077 N84-23457
Venus banded terrain: Evaluation of tectonic models for the origin of banding 13 p2077 N84-23458
Volcanism in the Valles Marineris 13 p2080 N84-23480
A tectonic geomorphological classification of the walls of Valles Marineris 13 p2087 N84-23518
Elysium Region, Mars: Characterization of tectonic features 13 p2089 N84-23534
Ancient volcano-tectonic structures of the Olympus Mons Region, Mars 13 p2089 N84-23535
Interpretation of planetary stress systems: Determination of tectonic over-printing in Northwest Wyoming 13 p2090 N84-23540
Relationships and tectonics of the Jg-7 quadrangle of Ganymede 13 p2091 N84-23542
Tectonic evolution of the Arctic continental margin in the Beaufort and Chukchi Seas: Evidence from seismic reflections 14 p2164 N84-23958
Discussion of the design of satellite-laser measurement stations in the eastern Mediterranean under the geological aspect. Contribution to the earthquake prediction research by the Wegener Group and to NASA's Crustal Dynamics Project
[NASA-TM-77412] 14 p2175 N84-24031
Application of MAGSAT to lithospheric modeling in South America. Part 2: Synthesis of geologic and seismic data for development of integrated crustal models
[E84-10126] 15 p2355 N84-25128
Euro-African MAGSAT anomaly-tectonic observations 15 p2355 N84-25129
Correlation of tectonic provinces of South America and the Caribbean region with MAGSAT anomalies 15 p2355 N84-25130
Satellite elevation magnetic and gravity models of major South American plate tectonic features 15 p2355 N84-25131
Long-wavelength magnetic and gravity anomaly correlations of Africa and Europe 15 p2356 N84-25135
Relation of MAGSAT anomalies to the main tectonic provinces of South America 15 p2356 N84-25137
Relation of MAGSAT and gravity anomalies to the main tectonic provinces of South America 15 p2357 N84-25138
A crustal structure study of South America 15 p2357 N84-25139
The crustal tectonics and history of Europe: A structural, morphological, and comparative analysis 15 p2426 N84-25568
Spectral analysis of groove spacing on Ganymede 15 p2426 N84-25570
A critical assessment of viscous models of trench topography and corner flow
[NASA-CR-173648] 17 p2667 N84-27005
Structure and direction of evolution of European tectonosphere according to geological and geophysical data 17 p2706 N84-27233
Modeling anisotropic properties of media with oriented fractures 17 p2706 N84-27234
A report on the task of collecting geological and structural data in Rio de Janeiro state
[INPE-2851-NTE/203] 17 p2726 N84-27351
Seismic tomography of the Earth's interior 18 p2879 N84-28278
Earthquake hazards 19 p3038 N84-29270
The seismological investigations of the World Ocean: The state of the problem 19 p3059 N84-29412
Seismological investigations in the Indian Ocean by autonomous OBS 19 p3060 N84-29416
Dominant depth of sources in the Kuril-Kamchatka earthquake focal zone from observations by surface and bottom stations 19 p3060 N84-29419
Seismicity of Iceland and the adjoining region of the Atlantic Ocean 19 p3061 N84-29423
Evaluation of LANDSAT-4 Thematic Mapper data as applied to geologic exploration: Summary of results — Death Valley, California, Cement-Velma, Oklahoma; Big Horn and Wind River Basins, Wyoming; Spanish Peaks, Colorado; and the Four Corners area (Paradox Basin of Utah and Colorado) 20 p3213 N84-30412
Research activities of the Geodynamics Branch
[NASA-TM-86123] 20 p3220 N84-30455
Geodynamics of crustal deformation and seismotectonic block movements in central Europe 20 p3220 N84-30460
Geodynamics
[NASA-CP-2325] 20 p3222 N84-30475
Projection for space geodynamics, 1988-1998 20 p3222 N84-30477
Stratigraphic and volcano-tectonic relations of Crater Flat Tuff and some older volcanic units, Nye County, Nevada
[DE84-010926] 20 p3242 N84-30584
Geology, petrology and tectonic significance of the Mesozoic Paleoceanic terranes of the Vizcaino Peninsula, Baja California Sur, Mexico 21 p3438 N84-31810
Response of alluvial rivers to active tectonics 21 p3438 N84-31812
Convergence tectonics of the Peru Trench: 8 deg S - 15 deg S latitude 21 p3440 N84-31824
The Lithosphere programme
[CSIR-TRANS-1724] 21 p3443 N84-31841
Geological rhythms and cometary impacts
[NASA-TM-86116] 21 p3524 N84-32327
Systematic jointing in the cardium sandstone along the Bow River, Alberta, Canada 22 p3620 N84-32937
Stratigraphy and sedimentology of the upper Proterozoic Kingston Peak Formation, Panamint Range, eastern California 22 p3620 N84-32939
Applications of teleseismic body waves to shallow Earth structure 23 p3795 N84-34064
Deformation of the subsurface silurian and devonian rocks of the southern tier of New York State 23 p3795 N84-34067
Paleogeography and tectonics of the Redding section, Eastern Klamath Belt, Northern California 23 p3796 N84-34070
Crystalline rocks of the Lake Superior region, United States, part 2
[DE84-014802] 23 p3799 N84-34067
Polyphase tectonics of the Oceanus Procellarum area on the Moon 23 p3841 N84-34364
Terra scarps indicating youngest terra faults on the Moon 23 p3841 N84-34365
Geophysical interpretation of satellite laser ranging measurements of crustal movement in California
[NASA-TM-86148] 24 p3919 N84-34808
Andean tectonics: Implications for Satellite Geodesy
[NASA-TM-86160] 24 p3919 N84-34809
The geologic study of Taiwan area following up the acquisition of Taiwan SLAR imagery 24 p3957 N84-35051
Planetary tectonics 24 p3990 N84-35247

TEE
U T SHAPE

TEETH
Eruption of permanent dentition in rhesus monkeys exposed to ELF (Extremely low frequency) fields
[AD-A132085] 03 p0413 N84-12703

TEFLON (TRADEMARK)
Measurement of alpha/epsilon ratio by using a Sun pointing satellite Tansei 4 10 p1446 N84-19447
Degradation of thermal shield materials in the space radiation environment 10 p1446 N84-19448

TEKTITES
Preliminary discussion on the origin of Lei-gong-mo (tektites)
[NASA-TM-77328] 07 p1091 N84-17095
Preliminary study of microtektites first discovered in the central Pacific by China
[NASA-TM-77470] 14 p2250 N84-24514
Microanalytical study of some cosmic dust discovered in sea-floor sediments in China
[NASA-TM-77409] 16 p2504 N84-28068

TELECHIRICS
U REMOTE HANDLING

TELECOMMUNICATION
NT AIRCRAFT COMMUNICATION
NT ALOHA SYSTEM
NT BROADCASTING
NT CODE DIVISION MULTIPLE ACCESS
NT COLOR TELEVISION
NT COMMUNICATION
NT DATA LINKS
NT DEFENSE COMMUNICATIONS SATELLITE SYSTEM
NT DEFENSE COMMUNICATIONS SYSTEM (DCS)
NT DIGITAL SPACECRAFT TELEVISION
NT FACSIMILE COMMUNICATION
NT FREQUENCY DIVISION MULTIPLE ACCESS
NT GROUND-AIR-GROUND COMMUNICATION
NT LINE OF SIGHT COMMUNICATION
NT MULTICHANNEL COMMUNICATION
NT MULTIPLE ACCESS
NT OPTICAL COMMUNICATION
NT PULSE COMMUNICATION
NT RADIO COMMUNICATION
NT RADIO RELAY SYSTEMS
NT RADIO TELEMETRY
NT RADIOTELEPHONES
NT SATELLITE TELEVISION
NT SELECTIVE DISSEMINATION OF INFORMATION
NT SINGLE CHANNEL PER CARRIER TRANSMISSION
NT SPACE COMMUNICATION
NT SPACECRAFT ANTENNAS
NT SPACECRAFT COMMUNICATION
NT STEREOTELEVISION
NT TELEMETRY
NT TELEPHONY
NT TIME DIVISION MULTIPLE ACCESS
NT UNDERWATER COMMUNICATION
NT VIDEO COMMUNICATION
NT VOICE COMMUNICATION

NT VOICE DATA PROCESSING
NT WIDEBAND COMMUNICATION
NT WIRELESS COMMUNICATION
The subjective effect of multiple co-channel frequency modulated television interference
[NASA-TM-83415] 02 p0206 N84-11360
Trends in the development of teleinformatics
[AD-A131067] 03 p0359 N84-12338
Telecommunications (selected articles)
[AD-A131872] 03 p0361 N84-12346
Research in net management techniques for tactical data networks
[AD-A131674] 03 p0361 N84-12352
Alternative transmission media for third-generation interface standards
[PB83-236345] 03 p0363 N84-12365
International Telecommunication Standards: Issues and implications for the '80's
[PB83-241471] 03 p0363 N84-12366
The Telecommunications and Data Acquisition Report
[NASA-CR-174610] 04 p0518 N84-13401
The effects of Reed-Solomon code shortening on the performance of coded telemetry systems
04 p0518 N84-13403
Communications network design and costing model technical manual
[NASA-CR-166236] 05 p0666 N84-14376
Posts and telecommunications
[AD-A133805] 05 p0667 N84-14390
Technical and economic analysis of the planned visual display terminal employment for the Stock Point Logistics Integrated Communications Environment (SPLICE)
[AD-A133642] 05 p0719 N84-14711
Review of activities, 1982 - 1983
[ISSN-0314-1357] 05 p0766 N84-15023
Low rate transmission of video signals using adaptive delta modulation
[AD-A133145] 06 p0823 N84-15363
Adaptive signal detection for the optimal communications receiver
[AD-A133498] 06 p0824 N84-15374
Advanced teleprocessing systems
[AD-A133554] 06 p0825 N84-15377
Advanced teleprocessing systems
[AD-A133555] 06 p0825 N84-15378
Satellite communications for the Pacific islands. Second year report
[NASA-CR-173171] 07 p0966 N84-16388
C-3I local area networks: An assessment
[AD-A134194] 07 p0992 N84-16431
Synopsis and recommendations of the TSC Workshop on differential operation of NAVSTAR GPS, June 1983
[PB84-121599] 08 p1103 N84-17170
Estimating the performance of telecommunication systems using the ionospheric transmission channel. Ionospheric communications analysis and prediction program user's manual
[PB84-111210] 08 p1147 N84-17468
Research Laboratory of Electronics
[AD-A135319] 08 p1150 N84-17488
Adaptive feedforward linear wideband HF power bank
[AD-A134744] 08 p1151 N84-17493
Meeting the automatic data processing and telecommunications needs of the federal government: A five-year plan
[PB83-195255] 08 p1241 N84-18111
International space organizations
09 p1265 N84-18261
Space Station needs, attributes and architectural options. Volume 2, book 1, part 3: Manned Space Station relevance to commercial telecommunications satellites
[NASA-CR-173314] 09 p1270 N84-18298
Robust procedures for communication data
[AD-A136540] 09 p1299 N84-18493
Program approach document
[AD-A135886] 09 p1300 N84-18501
The technical, economic and institutional feasibility of customer premises Earth stations for INTELSAT service
[PB84-128404] 10 p1484 N84-19703
On the complexity of distributed decision problems
[AD-A137443] 10 p1570 N84-20283
Advanced teleprocessing systems
[AD-A137944] 11 p1644 N84-20747
Longitudinal waterblocking performance of conductive and non-conductive waterswellable nonwovens
11 p1721 N84-21225
A field splicing system for single-mode optical fiber
11 p1726 N84-21257
Remote-ended time domain bandwidth measurements on installed regenerator sections of multimode optical fibre cable in the British Telecom Network
11 p1727 N84-21267
Scientific numeric databases
11 p1751 N84-21430
Automated document request and delivery systems in the United Kingdom 11 p1752 N84-21436
The Earth synchronous satellite carrier rocket
[AD-A138504] 12 p1778 N84-21602
Pacific Basin Communications Study, volume 1
[NASA-CR-173173] 12 p1805 N84-21767
Pacific Basin Communication Study, volume 2
[NASA-CR-173174] 12 p1805 N84-21768
Air-to-ground HF (High Frequency) propagation prediction model for fast multicircuit computation
[PB84-145961] 12 p1810 N84-21802
Reliability model demonstration study, volume 1
[AD-A138196] 12 p1881 N84-22262
Classification management. Journal of the National Classification Management Society, volume 18, 1982
[AD-A138480] 12 p1919 N84-22502
Wang OIS glossary package for reformatting documents telecommunicated to the OIS system
[DE84-005113] 12 p1920 N84-22507
Proceedings of the 6th MIT/ONR (Massachusetts Institute of Technology/Office of Naval Research) Workshop on C3 (Command, Control, and Communications) Systems
[AD-A138614] 13 p1977 N84-22835
Development of a command control and communications system for light aircraft
[AD-A139474] 14 p2140 N84-23831
Digital video transmission with reduced frame repetition rate and movement-adapted frame-to-frame interpolation
[AD-B075822] 15 p2318 N84-24915
Characteristics of the Lower Atmosphere Influencing Radio Wave Propagation
[AGARD-CP-346] 15 p2322 N84-24943
Worldwide report: Telecommunications policy, research and development
[JPRS-TTP-84-005] 15 p2327 N84-24971
Publications of the Jet Propulsion Laboratory 1982
[NASA-CR-173539] 15 p2417 N84-25510
The telecommunications and data acquisition report
[NASA-CR-173565] 16 p2478 N84-25889
Advanced technology UHF receiver study. Part 2: Effect on UHF television allotments
[PB84-173848] 16 p2483 N84-25921
Digital analysis of pulse code modulated signals in telecommunications channels 16 p2483 N84-25922
System requirements for a SCPC FM low capacity Earth station — Brazil
[INPE-2943-NTE/207] 17 p2652 N84-26958
Specifications for a low capacity SCPC FM Earth station
[INPE-2944-NTE/208] 17 p2652 N84-26959
Specialized common carriers: Long distance alternatives for military installations
[AD-A140596] 17 p2653 N84-26967
Americal National Standard X3.102 user reference manual — data communication systems and services
[PB84-155571] 17 p2654 N84-26977
Performance of telecommunications systems in a random probabilistic environment. Task 2: Single source interference with random parameters
[PB84-158534] 17 p2655 N84-26981
A note on Delbrouck's approximate solution to the heterogeneous blocking problem
[MC-BW-190/83] 17 p2761 N84-27536
Report on U.S. domestic and international telecommunications and information markets
[PB84-166362] 17 p2772 N84-27602
USSR Report: Electronics and electrical engineering
[JPRS-UEE-84-002] 18 p2822 N84-27915
Oversight of the Unispace and International Telecommunications Union conference
[GPO-28-104] 18 p2828 N84-27953
Environments for evaluating performance of C3I (Command, Control, Communications, and Intelligence) systems
[AD-P003237] 18 p2902 N84-28404
New integrated circuit casing
18 p2918 N84-28504
WARC and CCIR support for spectrum-orbit planning
[NASA-CR-163048] 19 p2979 N84-28884
Packet radio temporary note index
[AD-A141528] 19 p3005 N84-29045
Adaptive spread spectrum receiver using acoustic surface wave technology
[AD-A142129] 19 p3007 N84-29060
Antenna applications and system engineering
[AD-P003401] 19 p3014 N84-29105
A note on average mutual information for spherically invariant processes
[AD-A141401] 19 p3083 N84-29570
Locally optimum and suboptimum detector performance in a non-Gaussian interference environment
[PB84-184738] 20 p3176 N84-30173
Policy implications of information technology
[PB84-183219] 20 p3316 N84-31060
Practical applications of a space station
[NASA-CR-173672] 21 p3353 N84-31270
Analysis of noise temperature of optical waveguide
21 p3377 N84-31434
Analysis of modem analog and digital communication channels from a manager's perspective
[AD-A143161] 21 p3387 N84-31494
Classification management. Journal of the national classification management society, volume 19, 1983
[AD-A143015] 21 p3518 N84-32286
A description of the ground segment of CNES, ESA, and TELESAT
[INPE-2984-NTE/211] 22 p3539 N84-32407
Random multiple access methods in multi-user communication systems 22 p3571 N84-32616
The Telecommunications and Data Acquisition Report
[NASA-CR-173885] 22 p3572 N84-32622
East Europe report: Scientific affairs
[JPRS-ESA-84-007] 23 p3728 N84-33626
Worldwide report: Telecommunications policy, research and development
[JPRS-TTP-84-029] 23 p3732 N84-33657
Stand on space station participation to be surveyed
23 p3732 N84-33658
Perspectives on European satellite communications
23 p3732 N84-33659
Applique rate converter
[AD-D011161] 23 p3751 N84-33777
The role of information technology in emergency management
[GPO-29-457] 23 p3834 N84-34319
Catalog of existing published periodicals of INPE, Volume 7
[INPE-2866-NTE/206] 23 p3834 N84-34320
Worldwide report: Telecommunications policy, research and development
[JPRS-TTP-84-002] 24 p3891 N84-34634
Domestic satellite communication system to be established in China 24 p3891 N84-34635
New markets for integrated circuits firms in UK, France and West Germany 24 p3891 N84-34636
Review of West Germany's DFS satellite telecommunications program 24 p3891 N84-34637
Information systems: The challenge of the future for the Air Force Communications Command
[AD-A144277] 24 p3969 N84-35129

TELECONFERENCING
Study of potential standardization of video teleconferencing systems. Volume 2: Appendices
[AD-A132081] 04 p0522 N84-13431
Study of potential standardization of video teleconferencing systems, volume 1
[AD-A132080] 04 p0522 N84-13432
The development and application of an advanced computer-based shared-graphic workstation for video teleconferencing
[AD-A132583] 04 p0579 N84-13817
Coding of full motion color video signals at 50 kb/s
[AD-A134319] 08 p1148 N84-17456
Evaluation of a five node videoconference system and shared graphics workspace - U.S. Department of Defense, Washington, D.C.
[AD-A136483] 09 p1299 N84-18491
Study of potential standardization of digital freeze frame video codecs
[AD-A141278] 18 p2829 N84-27962
Office automation: A look beyond word processing
[AD-A132764] 18 p2944 N84-29670
Voice integrated presentation system
[AD-D011076] 21 p3387 N84-31495
Photovoltaic power system for satellite Earth stations in remote areas: Project status and design description
[NASA-TM-83789] 23 p3730 N84-33642

TELEGRAPH SYSTEMS
Posts and telecommunications
[AD-A133805] 05 p0667 N84-14390

TELEGRAPHY
U TELEGRAPH SYSTEMS

TELEMETERS
U TELEMETRY

TELEMETRY
NT RADIO TELEMETRY
Operation of a telemetered seismic network on the Alaska Peninsula
[DE83-016673] 02 p0250 N84-11636
Y03: Prequalification of surface treatment. Measurement of laser reflecting power — Earth-Moon telemetry
[ESA-TT-791] 03 p0382 N84-12490
Retroreflector YO3: Study of the optical properties of protected mirrors — Earth-Moon telemetry
[ESA-TT-789] 03 p0443 N84-12907
The effects of Reed-Solomon code shortening on the performance of coded telemetry systems
04 p0518 N84-13403
Nevada test site seismic-telemetry measurements
[DE84-000447] 04 p0564 N84-13719

Eastern Space and Missile Center (ESMC) capability
[AD-A133788] 05 p0642 N84-14226
A high performance fiber optic telemetry link for use in a space radiation simulator
[AD-A132736] 05 p0643 N84-14232
Advanced techniques of laser telemetry
06 p0906 N84-15883
Signal encoding and telemetry systems for space vehicles
[AD-A134445] 07 p0963 N84-16244
Telemetered seismic network--'System 768'
[AD-A133143] 07 p0963 N84-16245
Study of a pulse width modulated, telemetered, microprocessor based data acquisition system
06 p1114 N84-17247
Space Station needs, attributes and architectural options. Volume 2, book 2, part 2, Task 2: Information management system
[NASA-CR-173317] 09 p1271 N84-18301
Thermal control of the SPOT satellite payload telemetry
10 p1447 N84-19456
Telemetry simulation assembly implementation in the DSN
10 p1475 N84-19633
Implementation of large antennas for deep space mission support
10 p1475 N84-19636
LANDSAT-D communication systems in-orbit performance
10 p1523 N84-19972
Operational status of the LANDSAT-5 ground station
10 p1523 N84-19976
Current status of th Brazilian LANDSAT facilities
10 p1523 N84-19977
NASA TM processing system description and status
10 p1524 N84-19979
NOAA position for TM data distribution
10 p1524 N84-19981
Summary of LANDSAT Technical Working Group (LTWG) meetings
10 p1524 N84-19984
Development of a non-volatile programmable digital to analog converter subsystem for PCM (Pulse-Code Modification) telemetry systems
[AD-A137878] 11 p1622 N84-20620
Stochastic techniques applied to the smoothing treatment of bias and compression of artificial satellite tracking and telemetry data
[INPE-2909-TDL/148] 13 p1938 N84-22604
Informatics 1983: Signal processing
[FOA-A-30033-E] 15 p2321 N84-24932
Effect of RF filtering on the performance of uncoded PCM/PM telemetry channels
16 p2480 N84-25901
Memory-based parallel data output controller
[NASA-CASE-GSC-12447-2] 18 p2916 N84-28491
A rocket-borne Langmuir probe for in-situ measurement of ionospheric plasma
[INPE-3206-PRE/564] 21 p3349 N84-31244
Telecommunications and data acquisition support for the Pioneer Venus Project: Pioneers 12 and 13, prelaunch through March 1984
[NASA-CR-173693] 22 p3539 N84-32403
Design of a digital telemetry data collection system
[DE84-013916] 22 p3541 N84-32420
Availability of the DSN telemetry data system and its major elements, including the TWM assemblies
22 p3575 N84-32639
DCP systems and characteristics
[INPE-2948-PRE/431] 22 p3614 N84-32890
System requirements and characteristics, book 3
[NAS 1.15:86852-BK-3] 23 p3696 N84-33440
Satellite telemetry
[INPE-2854-PRE/394] 23 p3699 N84-33444
Telemetry/Telecommand (TM/TC) processor study
[MATRA-144-TM-TC-03-002] 23 p3699 N84-33448
The TM/TC processor study report — telemetry/telecommand (TM/TC)
[BL-5577] 23 p3700 N84-33449
Decommutation system
[INPE-3148-NTE/220] 23 p3730 N84-33639
Real time flight test conduction and monitoring
24 p3850 N84-34414
Real time testing: The next generation
24 p3850 N84-34416
Telemetry bandwidth selection for infrared surveillance sensors
[AD-A144251] 24 p3861 N84-34466
Earth's rotation and its geophysical implications — laser telemetry
24 p3904 N84-34720

TELEOPERATOR MANEUVERING SYSTEM
U TELEOPERATORS

TELEOPERATORS
Space applications of Automation, Robotics And Machine Intelligence Systems (ARAMIS). Volume 3, phase 2: Executive summary
[NASA-CR-3736] 01 p0089 N84-10582
Analysis of large space structures assembly: Man/machine assembly analysis
[NASA-CR-3751] 04 p0488 N84-13208
Kinematic equations for resolved-rate control of an industrial robot arm
[NASA-TM-85685] 04 p0585 N84-13866
Robotics-related technology in the nuclear industry
[DE83-017131] 06 p0893 N84-15799
A FMCW radar ranging device for the teleoperator maneuvering system
06 p0930 N84-16045
Human capabilities
09 p1268 N84-18282
European technology requirements on space automation and teleoperation
09 p1297 N84-18477
Human factors in space telepresence
[NASA-CR-173420] 13 p2023 N84-23119
NOSC (Naval Ocean Systems Center)-Hawaii perceptual sciences research program
[AD-P003361] 18 p2913 N84-28474
Teleoperator human factors study
[NASA-CR-171120] 21 p3460 N84-31944
Teleoperator human factors study
[NASA-CR-173890] 22 p3633 N84-33022

TELEPHONES
NT RADIOTELEPHONES
An exploratory study of the use of an inexpensive cordless telephone as a part of a data communications link — management information in hospitals
[AD-A134228] 07 p0992 N84-16432
Use of plain copper conductors in lieu of tinned-copper for internal cables
11 p1719 N84-21213
New quality assessment procedure for exchange area cable transmission parameters
11 p1720 N84-21218
Bell System lightguide cable interconnection equipment, central office to customer premises
11 p1720 N84-21219
Satellite communication, part 2
[INPE-3107-PRE/506] 16 p2481 N84-25906
Overload control for a Stored Program Control (SPC) telephone exchange: An optimal stochastic control approach
[CWI-OS-R8404] 19 p3081 N84-29550

TELEPHONY
Optical cable-electrical cable hybrid transmission system. The videophone: The optical cable transmission part
[AD-A131012] 02 p0294 N84-11924
Telecommunications (selected articles)
[AD-A131872] 03 p0361 N84-12346
Maintenance communications for the 1990's
[AD-A133978] 05 p0666 N84-14383
Review of activities, 1982 - 1983
[ISSN-0314-1357] 05 p0766 N84-15023
Land mobile radio services: Acts of the 2nd Convention — conferences
[FUB-7-1983] 10 p1476 N84-19642
Evolution of public land mobile telephone systems in Europe
10 p1477 N84-19649
The mobile radio service in the integrated network — AXE 10 commutation system
10 p1477 N84-19652
The RIAM project — mobile radio systems; Italy; power transmission networks
10 p1477 N84-19653
Experimental measurements of traffic and radio disturbances in Ente Nazionale per l'Energia Elettrica's (ENEL) mobile radio networks — Italy
10 p1478 N84-19657
Cordless telephone: A new degree of freedom for the telephone user — Italy
10 p1478 N84-19658
Computer communications with Mauna Loa Solar Observatory
[PB84-137256] 11 p1705 N84-21114
Versatile fire barrier systems for telephone cable
11 p1723 N84-21241
How to check line channel of IKM-15 digital pulse-code-modulation transmission system
17 p2633 N84-26842
Digital transmission: 68Mbit/s pal field trial system
[BBC-RD-1984/5] 21 p3361 N84-31455
Voice integrated presentation system
[AD-D011076] 21 p3387 N84-31495
Perspectives on European satellite communications
23 p3732 N84-33659

TELESCOPES
NT ASTRONOMICAL TELESCOPES
NT GAMMA RAY TELESCOPES
NT HUBBLE SPACE TELESCOPE
NT INFRARED TELESCOPES
NT PYROHELIOMETERS
NT RADIO TELESCOPES
NT REFLECTING TELESCOPES
NT SCHMIDT TELESCOPES
NT SOLAR OPTICAL TELESCOPE
NT SPACEBORNE TELESCOPES
NT SPECTROSCOPIC TELESCOPES
NT ULTRAVIOLET TELESCOPES
NT X RAY TELESCOPES
Alignment telescope for Antares
[DE83-014179] 01 p0088 N84-10576
Technical support for AXAF
[NASA-CR-170950] 06 p0917 N84-15959
Surface accuracy measurement sensor test on a 50-meter antenna surface model
[NASA-TM-85689] 07 p0992 N84-16427
Astronomical observatories
[NASA-TM-77295] 07 p1089 N84-17082
Optical detection loss due to air-borne salts on Diego Garcia
[AD-A136120] 09 p1346 N84-18792
Operational uses for a solar soft X-ray imaging telescope
[PB84-137538] 11 p1756 N84-21466
Some optics alternatives for the FFS
[DE84-008255] 14 p2225 N84-24355
A computer program for point-surface microwave continuum observation
[REPT-S-141] 15 p2320 N84-24925
A hardware/software simulation for the video tracking system of the Kuiper Airborne Observatory telescope
[NASA-TM-85896] 15 p2424 N84-25562
Mathematical modeling of a continuum. Related modal analysis. Volume 1: Problem analysis
[ESA-CR(P)-1862-VOL-1] 16 p2552 N84-26376
Optical system with reflective baffles
[NASA-CASE-ARC-11502-1] 16 p2557 N84-26400
The shape of the Sun
21 p3526 N84-32334
Cosmic Rays, no. 23. Results of researches on the international geophysics projects
24 p3993 N84-35267
Joint analysis of the data obtained by detecting the general, muon, and neutron components of cosmic ray intensity on May 7, 1978
24 p3993 N84-35270
A crossed scintillation supertelescope to measure the muon component of cosmic ray intensity
24 p3994 N84-35274

TELESCOPING STRUCTURES
U FOLDING STRUCTURES

TELEVISION CAMERAS
Fast optical position-sensitive detector for McPherson ESCA-36
[AD-A132606] 05 p0885 N84-14501
High-speed videography for optical and X-ray imaging
[DE84-002272] 05 p0748 N84-14910
Panoramic sky monitor (PANSKY)
[AD-A139440] 14 p2176 N84-24035
Instabilities and chaos in TV-optical feedback
14 p2237 N84-24422
Development of automatic measuring system for image pickup tubes
[NHK-LN-295] 15 p2335 N84-25014

TELEVISION EQUIPMENT
NT IMAGE DISSECTOR TUBES
NT TELEVISION CAMERAS
NT TELEVISION RECEIVERS
Optical surveillance for international safeguards: Present and future
[DE83-014276] 02 p0223 N84-11465
Characteristic faults of input stabilizing and correcting equipment in television transmitting stations
17 p2632 N84-26837
Requirements to be met by parameters of high-definition television systems for cinematography
17 p2633 N84-26841
Perceived C/U ratio measuring equipment for TV ghost images
[NHK-LABS-NOTE-300] 19 p3003 N84-29036
Optical and electronic methods for weld arc viewing
[DE84-009731] 19 p3032 N84-29233
Equipment for monitoring and control of television transmitters
21 p3378 N84-31435

TELEVISION RECEIVERS
Super 8 film scanning set by using a CCD-line
[BMFT-FB-T-83-249] 10 p1483 N84-19697
New digital Integrated Circuit (IC) concept for color TV receivers
[BMFT-FB-T-83-261] 10 p1488 N84-19729
Advanced technology UHF receiver study. Part 2: Effect on UHF television allotments
[PB84-173848] 16 p2483 N84-25921

TELEVISION RECEPTION
Experimental evaluation of the interference of a frequency hopping signal on a television signal — mobile radio systems
10 p1478 N84-19658
Perceived C/U ratio measuring equipment for TV ghost images
[NHK-LABS-NOTE-300] 19 p3003 N84-29036

TELEVISION SYSTEMS
NT COLOR TELEVISION
NT DIGITAL SPACECRAFT TELEVISION
NT SATELLITE TELEVISION
NT STEREOTELEVISION
Potential applications of cable television (CATV) to the FEMA (Federal Emergency Management Agency) communications mission
[AD-A131326] 02 p0209 N84-11367

Study of potential standardization of video teleconferencing systems. Volume 2: Appendices
[AD-A132081] 04 p0522 N84-13431
Study of potential standardization of video teleconferencing systems, volume 1
[AD-A132080] 04 p0522 N84-13432
An airborne programmable digital tv video converter
[AD-A134839] 08 p1104 N84-17181
Analysis of technical possibilities for further sharing of the UHF television band by the land mobile services in the top ten land mobile markets
[PB84-123116] 08 p1148 N84-17470
Requirements to be met by parameters of high-definition television systems for cinematography
17 p2633 N84-26841
WARN: A warning formatter
[PB84-204551] 21 p3467 N84-31985
Evaluation of the limiting accuracy in determining the coordinates of a point light source by a television tracking system using an image dissector with the presence of a nonstationary current component
22 p3571 N84-32613
A transportable satellite Earth station
[BBC-RD-1984/8] 22 p3571 N84-32614
Video noise reduction
[BBC-RD-1984/7] 22 p3571 N84-32615

TELEVISION TRANSMISSION

The subjective effect of multiple co-channel frequency modulated television interference
[NASA-TM-83415] 02 p0208 N84-11360
Optical fibre links for digital YUV signals
[BBC-RD-1983/14] 05 p0685 N84-14372
Aerials for use in television outside broadcasts
[BBC-RD-1983/12] 05 p0665 N84-14373
Investigation of digital encoding techniques for television transmission
[NASA-CR-171734] 07 p0991 N84-16421
Digital sound service for direct broadcasting satellites
08 p1146 N84-17462
Comment on direct television broadcast by satellite
09 p1265 N84-18260
Experimental digital stereo sound with terrestrial television: Field tests from Wenvoe, October 1983
[BBC-RD-1983/19] 09 p1298 N84-18483
Television interference measurements near the MOD-2 WT array at Goodnoe Hills, Washington
[DE84-000030] 10 p1482 N84-19688
Characteristic faults of input stabilizing and correcting equipment in television transmitting stations
17 p2632 N84-26837
Television transmitting antenna of decimeter band system based on tubes 720 and 1020 mm in diameter
21 p3377 N84-31431

TELLEGEN THEORY

U NETWORK ANALYSIS
U NETWORK SYNTHESIS

TELLURIDES

NT CADMIUM TELLURIDES
NT LEAD TELLURIDES
NT TIN TELLURIDES
NT ZINC TELLURIDES
Properties of mercury-cadmium-telluride solid solutions
[AD-A130224] 01 p0156 N84-11025
TDPAC (Time Differential Perturbed Angular Correlations) study of liquid and amorphous se sub (1-x)Te sub x alloys
[AD-A135588] 09 p1279 N84-18353

TELLURIUM

The relative abundances of Sn, Te, Xe, Ba and Ce
[NASA-CR-174599] 03 p0465 N84-13064
Application of regular associated solution model to the liquidus curves of the Sn-Te and Sn-SnS systems
15 p2402 N84-25418
Variation of carrier concentration caused by band structure reconstruction in tellurium and tin-doped Al(x)Ga(1-x)As solid solutions 17 p2635 N84-26861

TELLURIUM ALLOYS

Theory of the electronic properties of mercury-cadmium-telluride alloys
[AD-A143426] 22 p3663 N84-33221

TELLURIUM COMPOUNDS

NT CADMIUM TELLURIDES
NT LEAD TELLURIDES
NT TELLURIDES
NT TIN TELLURIDES
NT ZINC TELLURIDES
HgCdTe surface and defect study program
[AD-A142342] 20 p3308 N84-31010

TEMPER (METALLURGY)

Influence of the tramp elements on the properties of steel, metallurgical processes for controlling the contents of tramp elements
[BMFT-FB-T-83-189] 07 p0977 N84-16331
Stress corrosion cracking of wrought and P/M high strength aluminum alloys
[AD-A144279] 24 p3884 N84-34606

TEMPERATE REGIONS

A middle latitude ionospheric model
[CRPE-NT-114] 13 p2012 N84-23049
Analytical model of latitudinal variation of dispersion and spectra of fluctuations of zonally averaged surface temperature 18 p2856 N84-28137

TEMPERATURE

NT AMBIENT TEMPERATURE
NT ATMOSPHERIC TEMPERATURE
NT BODY TEMPERATURE
NT BRIGHTNESS TEMPERATURE
NT COMBUSTION TEMPERATURE
NT CRITICAL TEMPERATURE
NT CURIE TEMPERATURE
NT FLAME TEMPERATURE
NT FLASH POINT
NT GAS TEMPERATURE
NT HIGH TEMPERATURE
NT ION TEMPERATURE
NT IONOSPHERIC TEMPERATURE
NT LOW TEMPERATURE
NT NOISE TEMPERATURE
NT OCEAN TEMPERATURE
NT PLANETARY TEMPERATURE
NT PLASMA TEMPERATURE
NT ROOM TEMPERATURE
NT SATELLITE TEMPERATURE
NT SOLAR TEMPERATURE
NT STAGNATION TEMPERATURE
NT STELLAR TEMPERATURE
NT SURFACE TEMPERATURE
NT TRANSITION TEMPERATURE
NT ULTRALOW TEMPERATURES
NT WALL TEMPERATURE
NT WATER TEMPERATURE
Characterization of hydroxylammonium nitrate (HAN) at various pressures and temperatures
[AD-A131574] 02 p0203 N84-11324
The long term upper ocean study (LOTUS). Cruise summary and hydrographic data report, ENDEAVOR 97, April 1983
[AD-A134005] 06 p0883 N84-15745
An analysis of aircraft data collected in the Alboran Sea during Donde Va?, 6 - 18 October 1982
[AD-A133995] 06 p0883 N84-15746
The electron density and temperature in the photoionized background gas (N2) surrounding a laser produced plasma
[AD-A138651] 13 p2044 N84-23266
Climate fluctuations in Illinois: 1901-1980
[PB84-159695] 14 p2181 N84-24069
One-dimensional model hindcasts of cold anomalies in the North Pacific ocean
[AD-A139670] 15 p2373 N84-25236
Chemical abundances in old open and metal-rich globular clusters in the galaxy 16 p2577 N84-26539
Velocity and temperature characteristics of two-stream, coplanar jet exhaust plumes
[NASA-TM-83730] 19 p2965 N84-28790
Studies in climate
[PB84-196385] 22 p3626 N84-32977
Temperature and elemental abundances in the Abell cluster A 576 derived from X-ray observations
[NASA-TM-85103] 24 p3987 N84-35238

TEMPERATURE COMPENSATION

Temperature compensation and shunt calibration of semiconductor pressure transducers
[AD-P002686] 11 p1658 N84-20821
Single circuit board implementation of a Digitally Compensated SAW Oscillator (DCSO)
[AD-A138313] 12 p1812 N84-21812
Temperature compensation of surface transverse waves for stable oscillator applications
[AD-A144245] 24 p3894 N84-34660

TEMPERATURE CONTROL

Conceptual design of the high-flux VTA-2 test assembly for FMIT
[DE83-017022] 03 p0446 N84-12935
Method and apparatus for minimizing convection during crystal growth from solution
[NASA-CASE-NPO-15811-1] 03 p0451 N84-12968
Coordinate-measuring machine capability
[DE84-002014] 04 p0539 N84-13544
Thermal control system — removing waste heat from industrial process spacecraft
[NASA-CASE-GSC-12771-1] 05 p0678 N84-14461
Central heat pump units: Problems of heat output control
[BMFT-FB-T-83-159] 05 p0681 N84-14480
Thermal energy management process experiment
08 p1110 N84-17222
Honeycomb insulating shade
[DE84-001270] 09 p1276 N84-18335
Environmental and thermal control systems for space vehicles — conferences
[ESA-SP-200] 10 p1439 N84-19396
Future trends in spacecraft thermal control designs
10 p1439 N84-19397
Spacecraft thermal balance testing using infrared lamps on a dummy spacecraft 10 p1439 N84-19399
Recent and planned developments at the Goddard Space Flight Center in thermal control technology
10 p1440 N84-19402
Thermal control design of ISPM
10 p1441 N84-19408
Thermal control of the EXOSAT European satellite
10 p1441 N84-19409
Viking satellite thermal control analytical verification and test 10 p1441 N84-19410
Thermal control of the SPOT platform
10 p1441 N84-19411
Thermal design of the Giotto spacecraft
10 p1441 N84-19412
Thermal control of Telecom 1
10 p1441 N84-19413
The thermal design of L-SAT large telecommunication satellite 10 p1441 N84-19414
Thermal design and performance of the IRAS spacecraft system 10 p1441 N84-19415
Active thermal control of the faint object camera
10 p1442 N84-19419
Thermal network correction by simplex optimization — spacecraft thermal balance testing
10 p1442 N84-19422
The complementary roles of existing and advanced environmental, thermal control and life support technology for space stations 10 p1443 N84-19429
System aspects of the European Retrievable Carrier (EURECA) thermal control system
10 p1444 N84-19432
Adaptive control of thermal fluid loops for space applications 10 p1444 N84-19433
Design and manufacturing of a heat rejection system for advanced thermal control — spacecraft and or payload cooling 10 p1444 N84-19434
The Giotto thermal control shutter
10 p1444 N84-19435
Development of a thermal controller for space application 10 p1445 N84-19437
Thermal control of multimission battery compartment of SPOT 10 p1445 N84-19440
Thermal control of the SPOT HRV instrument
10 p1445 N84-19441
Thermal design optimization for spacecraft during transfer orbit 10 p1445 N84-19442
Thermal design features of Rosat X-ray telescope
10 p1445 N84-19443
Thermal control of tethered satellite in a very low altitude aerodynamic mission 10 p1446 N84-19444
Surface property measurement for spacecraft thermal balance testing 10 p1447 N84-19451
A Maltese cross shaped mobile thermal control shutter — for satellites 10 p1447 N84-19454
Geostationary satellite with Sun pointing platform and geocentric payload 10 p1447 N84-19455
Thermal control of the SPOT satellite payload telemetry 10 p1447 N84-19456
Accurate thermal control of enclosures of optical payloads — faint object camera, Hipparcos
10 p1447 N84-19457
Simplification of thermal design by the use of effective sink temperature method 10 p1448 N84-19461
Frigair 1983. Papers
[CSIR-S-281] 11 p1639 N84-20717
Humidity control: The pattern for change
11 p1639 N84-20718
Study on synthesis and characterization of large space systems, phase 2. Part 2: Proposals for additions, modifications and new analytical methods, volume 2
[ESA-CR(P)-1779-VOL-4] 12 p1780 N84-21616
Interactive structural-thermal-control analytical formulations — large space structures
12 p1781 N84-21619
Space Station Systems Technology Study. Volume 3: Technology and Advancement Program Plan
[NASA-CR-171016] 13 p1940 N84-22613
Advanced Platform Systems Technology study. Volume 3: Supporting data
[NASA-CR-173523] 14 p2115 N84-23673
Solar absorptance and thermal emittance of some common spacecraft thermal-control coatings
[NASA-RP-1121] 14 p2119 N84-23698
Cascade variable-conductance heat pipe (A0076)
15 p2274 N84-24651
Low-temperature heat pipe experiment package (HEPP) for LDEF (S1001) 15 p2274 N84-24652
Transverse flat-plate heat pipe experiment (S1005)
15 p2274 N84-24653
Operational demonstration of a field of high performance flat plate collectors with isothermal heat transport
[BMFT-FB-T-83-2] 15 p2362 N84-25171

Effects of heat acclimation on atropine impaired thermoregulation
[AD-A139292] 15 p2380 N84-25282
A thermal cycling test for the screening of space materials and processes
[ESA-PSS-01-704-ISSUE-1] 16 p2500 N84-26044
The thermal design of the European complement of first Spacelab mission (FSLP)
[MBB-UR-645-83-O] 16 p2563 N84-26442
A review of the in-orbit thermal performance of Maritime Communications Satellite (MCS)-A
[MBB-UR-641-83-O] 16 p2563 N84-26443
Results of the Purdue University GAS-1 payload
18 p2799 N84-27760
Two-phase heat transport system conceptual studies — large space structures
[SABCA-JPM/LN/HO5/N117] 18 p2807 N84-27822
Thermoelectric temperature control system for the pushbroom microwave radiometer (PBMR)
[NASA-TM-85824] 18 p2836 N84-28000
Principles and prospects for micro heat pipes
[DE84-006035] 19 p3020 N84-29149
Precision manipulator heating and cooling apparatus for use in UHV systems with sample transfer capability
[NASA-CASE-LAR-13040-1] 19 p3026 N84-29191
The heat pipe exchanger with controllable heat exchanging area 20 p3169 N84-30124
Simplified method for estimating the cooling loads of passive solar systems
[DE84-009474] 20 p3235 N84-30538
Temperature controlled adjusting mechanism
[AD-D011077] 21 p3406 N84-31601
Thermal management of a lithium/iron-sulfide battery
[DE84-013438] 22 p3587 N84-32722
General energy balance for battery systems
[DE84-013235] 22 p3589 N84-32731
The development of a high-capacity instrument module heat transport system, appendixes
[NASA-CR-175260] 22 p3592 N84-32750
Temperature controlled gyro
[AD-D011138] 22 p3596 N84-32777
Variable gain oven temperature control circuit
[AD-D011141] 22 p3597 N84-32778
Heat rejection system technology demonstration model — spacecraft thermal control
[TD-RP-AI-004] 23 p3701 N84-33459
Objectives: Activities and needs of the digital simulation laboratory, attitude and orbit control systems, and the thermal control laboratory of the space mechanics and control department
[INPE-3174-RPE/459] 23 p3833 N84-34011
Innovative method for the thermal cycling of large spacecraft systems 24 p3861 N84-34470
Simultaneous thermal vacuum testing of GPS drives for NavStar 24 p3862 N84-34473

TEMPERATURE DEPENDENCE

Thermodynamic activity of carbon in solid nickel
[BLL-M-35192-(5828.4)] 01 p0040 N84-10256
Fracture-toughness testing of ductile cast irons
[DE83-010824] 01 p0046 N84-10294
Theoretical calculation of the temperature dependence of thermal conductivity of glass
[CSIR-TRANS-1686] 01 p0049 N84-10314
Comparative testing of polymer solutions. Part 1: Preliminary evaluation of a rheometrics fluids rheometer
[AD-A130886] 01 p0050 N84-10322
Correlation of electrical conductivity and thermal decomposition of phenolic materials
[DE83-009186] 01 p0074 N84-10487
Research and development program for the development of advanced time-temperature dependent constitutive relationships. Volume 1: Theoretical discussion
[NASA-CR-168191-VOL-1] 01 p0094 N84-10613
Cross spectra between pressure and temperature in a constant-area duct downstream of a hydrogen-fueled combustor
[NASA-TM-83463] 02 p0287 N84-11885
Effects of pressure on deep electronic levels in semiconductors
[DE83-016247] 02 p0299 N84-11985
Transient temperature response of strain gages, revision 1
[DE83-017514] 03 p0378 N84-12459
Approximate solution of the problem of thermoelasticity of a sphere with variable properties
[BLL-M-35369-(5828.4F)] 04 p0547 N84-13606
Matrix approach to testing mirrors, part 2
[DE83-011996] 04 p0558 N84-13676
Injection, atomization, ignition and combustion of liquid fuels in high-speed air streams
[AD-A133606] 05 p0648 N84-14264
Fatigue of niobium at elevated temperatures
[DE84-001373] 05 p0656 N84-14314
Temperature dependent hysteresis study in polyvinylidene fluoride
[AD-A132675] 05 p0659 N84-14331
Optimal design of gas adsorption refrigerators for cryogenic cooling 06 p0820 N84-15348
Influence of cation stoichiometry on the electrical conductivity and high-temperature stability of MgO:Al/sub 2O/sub 3 spinel
[DE84-003305] 07 p0980 N84-16348
Nondestructive measurement of bulk residual stresses
[AD-A134600] 07 p1013 N84-16573
Performance and materials aspects of Ge:Be and Ge:Ga photoconductors for far-infrared detection
[DE84-003046] 07 p1061 N84-17029
Dependence of thermoluminescence output on temperature during irradiation for several thermoluminescence phosphors
[AD-A134940] 08 p1125 N84-17313
Temperature aspects of pulsed ion bombardment in an austenitic alloy
[DE84-003382] 08 p1134 N84-17376
Grain size in sintered samarium-cobalt alloys and their coercive force
[BLL-M-35406(5828.4)] 09 p1281 N84-18385
Collision widths of CO lines broadened by water vapor at elevated temperatures
[AD-A136121] 09 p1323 N84-18644
Mechanism of lubrication by tricresylphosphate (TCP)
[NASA-TP-2274] 09 p1324 N84-18653
Density of sodium chloride solutions at high temperatures and pressures
[DE84-004883] 10 p1456 N84-19508
Temperature effects of cement joints in ceramic-stack resonators
[AD-A137435] 10 p1486 N84-19716
Dynamical friction in condensed matter
[DE84-004202] 10 p1589 N84-20415
Factory splicing of optical waveguide fiber
11 p1720 N84-21222
Transport properties of fluorite oxides
11 p1740 N84-21355
Segregation of Si and Sn to the Fe(100) surface in the Fe-6.2% Si-0.03% Sn alloy
[AD-A138154] 12 p1798 N84-21726
Ring tensile test of modified Haithane 88-2
[DE84-005891] 12 p1802 N84-21750
Thermoelastic stresses in metal with temperature: Dependent properties in radiant heating
[BLL-M-35526-(5828.4)] 13 p1960 N84-22733
A 37.5-kW point design comparison of the nickel-cadmium battery, bipolar nickel-hydrogen battery, and regenerative hydrogen-oxygen fuel cell energy storage subsystems for low Earth orbit
[NASA-TM-83651] 13 p2008 N84-23022
Shelf life determination of an epoxy resin by accelerated aging
[DE84-006048] 14 p2121 N84-23709
Prevention of stress-corrosion cracking in nuclear waste storage tanks
[DE84-001410] 14 p2128 N84-23758
Solar cell characterization by photocapacitance
[DE84-008215] 14 p2143 N84-23849
Convective heat transfer in porous media
15 p2317 N84-24903
Temperature dependence of elastic and strength properties of T300/5208 graphite-epoxy
[NASA-CR-173616] 16 p2460 N84-25767
Automatically equalizing fluid manometer combined with a computer
[ESA-TT-811] 16 p2496 N84-26015
Influence of microstructure, stress-state and environment on superplastic flow and fracture in glass-ceramics 17 p2577 N84-27050
Modeling and simulation of lead-acid batteries for photovoltaic systems 17 p2722 N84-27326
Photoconductivity of alpha-Si-H in infrared range of spectrum 18 p2825 N84-27933
High temperature electrical conductivity of rigid polyurethane foam
[DE84-008699] 19 p3018 N84-29137
Ion conduction poly(vinyl acetate)
[AD-A142249] 19 p3096 N84-29660
Research on the crystal growth and dielectric properties of high permittivity ferroelectric materials
[AD-A142125] 19 p3111 N84-29767
The compatibility of MON-3 and 301 cryoformed stainless steel 20 p3138 N84-29924
Electrochemical activation parameters for surface-attached reactants evaluation of unimolecular frequency factors for representative ligand-bridged reactions
[AD-A142463] 20 p3148 N84-29990
Noncubic magnetic anisotropy in YSmLuCaFeGe garnet films 20 p3287 N84-30869
Static frequency-temperature characteristics of doubly rotated quartz
[AD-A142456] 20 p3309 N84-31013
Temperature dependence of the Raman OH-stretching overtone from liquid water
[AD-A143131] 21 p3359 N84-31305
Use of pulse radiolysis to measure high temperature kinetics
[DE84-011702] 21 p3361 N84-31324
Simulation of vibratory processes in damped structures with temperature-frequency characteristics of vibration absorbing materials taken into account
21 p3478 N84-32048
Point defects and diffusion mechanisms in the monoxides of the iron-group metals
[DE84-012105] 21 p3505 N84-32210
Loss factors measured in metal matrix composite materials
[AD-A143542] 22 p3545 N84-32440
Pressure-dependent resistive behavior of YbBe13
[DE84-010068] 22 p3555 N84-32514
Development and testing of glass coatings for Hexanite-A powders
[CSIR-TRANS-1747] 22 p3557 N84-32527
Chemical reactions, radiative and energy transfer processes of important atmospheric species
[AD-A143264] 22 p3653 N84-33156
Studies of structural properties and their relationship to critical parameters in superconducting materials
[AD-A143556] 22 p3664 N84-33227
Dielectric measurements of soils in the 3 to 37 GHz band between -50C and 23C 23 p3766 N84-33683
Momentum distributions in hcp, bcc, and liquid He-4
[DE84-014679] 23 p3831 N84-34300
Study of metal-insulator transition
24 p3955 N84-35044

TEMPERATURE DIFFERENCES

U TEMPERATURE GRADIENTS

TEMPERATURE DISTRIBUTION

Temperature analysis in lubricated simple sliding rough contacts 01 p0089 N84-10579
Raft thermocline thermal storage
[DE83-011962] 02 p0218 N84-11431
Microstructural origins of hot spots in RDX explosive and several reference inert materials
[AD-A132056] 03 p0357 N84-12325
Transient heat transfer in superfluid helium, part 2
[DE83-015767] 03 p0453 N84-12984
Component temperature versus laser-welding parameters
[DE84-000362] 04 p0541 N84-13559
Heat capacity and thermodynamic properties of linear macromolecules 06 p0809 N84-15263
Computation of the temperature distribution due to eddy-currents in the wall of a power transformer
[PB83-217273] 06 p0831 N84-15410
Temperature distributions, boiling and dry-out behind local blockages — liquid metal fast breeder reactors (LMFBR) 06 p0843 N84-15495
Heat generation in aircraft tires under braked rolling conditions
[NASA-CR-3766] 06 p0858 N84-15587
Modeling of transient heat pipe operation
[NASA-CR-173305] 09 p1312 N84-18575
Preliminary tests on the u-shaped heat pipes of TV-SAT/TDF-1 10 p1440 N84-19403
Degradation of thermal shield materials in the space radiation environment 10 p1446 N84-19448
Foreign particles at a solidification front
[BMFT-FB-W-83-031] 10 p1495 N84-19777
Modeling of dilution jet flowfields
11 p1611 N84-20547
Impact of monoblock design and battery packaging on temperature excursion of nickel/iron batteries
[DE84-006444] 12 p1813 N84-21821
Thermoelastic stresses in metal with temperature: Dependent properties in radiant heating
[BLL-M-35526-(5828.4)] 13 p1960 N84-22733
Estimation of local stress intensity in flanged thin-wall shell structures under heavy thermal load
13 p1972 N84-22799
Climatic atlas of Texas
[PB84-162908] 14 p2182 N84-24074
Evaluation of multi-dimensional flux models for radiative transfer in combustion chambers: A review
15 p2293 N84-24760
The threshold temperature effect in high-voltage spacecraft charging
[AD-P002120] 16 p2524 N84-26206
Seasonal oscillations of the subtropical convergence between the Brazil and Malvinas currents, using oceanographic and SMS-2 satellite data
[INPE-3092-PRE/497] 16 p2532 N84-26255
Stability of fuses under cyclic load
17 p2639 N84-26682

Asymptotic form of solution of problem of seasonal evolution of thermal regime in ocean
17 p2699 N84-27194
Forming of upper homogeneous layer in Mediterranean basin 17 p2699 N84-27195
Quasibiennial cycle of thermodynamic atmosphere-ocean interaction in North Atlantic
17 p2700 N84-27198
The variability of the surface wind field in the equatorial Pacific Ocean: Criteria for satellite measurements
17 p2717 N84-27296
Recent advances in multispectral sensing of ocean surface temperature from space
17 p2717 N84-27297
Analyzing temperature data from XBT grid surveys
[AD-A140685] 17 p2737 N84-27388
Variability of vertical distributions of sea water temperature and light extinction index in section across Mascarene Ridge 18 p2857 N84-28142
Prediction of the temperature characteristics in intermittent, free turbulent shear layers
[CFD/84/1] 20 p3188 N84-30256
Laser window with annular grooves for thermal isolation
[DE84-011114] 21 p3410 N84-31625
Mathematical model for a simplified Bridgman-Stockbarger crystal growing system
[NASA-CR-171108] 21 p3504 N84-32202
A study of heat release rate distribution in a gas turbine combustor by acoustic measurements
22 p3536 N84-32385
A study of leeside flow field heat transfer on Shuttle Orbiter configuration
[NASA-CR-172362] 22 p3540 N84-32410
Thermal management of a lithium/iron-sulfide battery
[DE84-013438] 22 p3587 N84-32722
General energy balance for battery systems
[DE84-013235] 22 p3589 N84-32731
Heat transfer, fluid flow and element vaporization in laser welding
[DE84-011783] 22 p3605 N84-32839
Horizontal cylindrical vessels supported by saddles subjected to vertical and lateral force fields
22 p3608 N84-32858
Thermal shock: High temperature high energy rate testing
[DE84-014147] 22 p3612 N84-32886
Temperature and heat-flux distributions in a strip-heated composite slab
[DE84-008016] 23 p3712 N84-33529
A theoretical model for the cross spectra between pressure and temperature downstream of a combustor
[NASA-TM-83671] 23 p3821 N84-34231

TEMPERATURE EFFECTS

Effect of high pressures and temperatures in pyrolytic boron nitride
[CSIR-1684] 01 p0030 N84-10189
The redistribution of silicon during the spheroidizing annealing of iron
[BLL-M-35167-(5828.4)] 01 p0040 N84-10257
Effect of structural factors on the crack resistance of tungsten carbide/cobalt alloys at high temperatures
[CSIR-1682] 01 p0042 N84-10269
The oxidation of porous metals
[BLL-TRANS-IZ.148-(5828.4)] 01 p0042 N84-10270
Development of alternate silicone potting compounds. Volume 11: Influences of temperature, material variables and composition variables on the properties of substitute potting compounds
[DE83-013025] 01 p0051 N84-10326
Creep and thermal effects in aging solids
[DE83-012673] 01 p0098 N84-10635
Pressure studies of organic superconductors
[DE83-015344] 01 p0155 N84-11021
Temperature limitation of primary and secondary alkaline battery electrodes
[DE83-015009] 02 p0214 N84-11404
Diagnostic studies of atmospheric blocking patterns
02 p0246 N84-11611
Thermal effects on surface ripple charges for waves on a plasma column
[TRITA-EPP-83-03] 02 p0297 N84-11948
Degradation of shape memory effect
[DE83-016586] 03 p0353 N84-12295
New conformal solution theory
[PB83-249441] 03 p0457 N84-13008
Storage of synthetic turbine lubricants under adverse conditions
[AD-A132226] 04 p0506 N84-13319
Mechanisms of elevated-temperature rupture in single-phase ceramics
[DE83-017779] 04 p0508 N84-13327
Analysis of lead-acid battery accelerated testing data
[DE83-017403] 04 p0528 N84-13473
New relationships for turbulent plumes
[NAL-TR-763] 04 p0532 N84-13495
The organic geochemistry of deep ground waters and radionuclide-partitioning experiment: Under hydrothermal conditions
[DE83-015784] 04 p0554 N84-13651
Characteristics of various types of ablative materials with associated naval applications
[AD-A133882] 05 p0645 N84-14243
Solar radiation tests
[AD-A133889] 05 p0684 N84-14497
Coupled diffusion and deformation theory: Hygrothermal stress distribution around crack-like defects
05 p0694 N84-14558
Energy release and transformation of shock-modified zirconia upon annealing to 1550 deg C
[DE83-017801] 05 p0755 N84-14954
Elevated temperature low cycle fatigue of nickel base superalloys in the conventionally cast, directionally solidified and single crystal forms
[AD-A133598] 06 p0806 N84-15253
The influence of the environment on the mechanical characteristics of composite materials: Design considerations — polymer matrix composites
[INTA-INFORME-I-1/221/720/83047]
06 p0811 N84-15281
Aspects of damping of sonic vibrations due to impact loading in plate steels
[BLL-M-35295-(5828.4)] 06 p0908 N84-15895
A generalized couple theory of hygrothermal-elasticity: Transient effects in composite laminate with circular cavity
[AD-A134376] 07 p0968 N84-16271
Some inelastic effects of thermal cycling on yttria-stabilized zirconia
[NASA-TM-83488] 07 p1001 N84-16492
Tempering kinetics of alloy steels as a function of quench rate and M sub s temperature
[AD-A134806] 08 p1132 N84-17365
Transient thermal stresses in a reinforced hollow disk or cylinder containing a radial crack
[NASA-CR-173292] 08 p1170 N84-17619
Thermal properties of coating materials and their effect on the efficiency of coated cutting tools
09 p1292 N84-18440
Analysis and testing of the thermal design of the electronic package in the US Army's Upgraded Logic Module (ULM)
[AD-A135998] 09 p1308 N84-18551
Influence of deformation behavior, oxydation, and temperature on the long time cyclic stress behavior of high temperature steels
[MPA-82-02] 09 p1334 N84-18710
Determination of characteristic values for fiber reinforced materials — structural mechanics
10 p1452 N84-19481
Effect of temperature on some of the mechanical properties of Cu-10Ni-8Sn spinodal alloy
[DE84-004432] 10 p1461 N84-19538
Austenitizing and microstructure of a HT-9 steel
[DE84-004914] 11 p1635 N84-20687
Standard environmental test methods
[DE84-006471] 11 p1666 N84-20868
Active solar heating and cooling program. Polymer stabilization film-forming, high-temperature polymers
[DE84-000093] 11 p1675 N84-20929
Thermal contraints on high-pressure granulite metamorphism of supracrustal rocks
11 p1678 N84-20948
Ion-ion correlations and phase transitions in nascion type materials 11 p1743 N84-21375
Study on synthesis and characterization of large space systems, phase 2. Part 2: Proposals for additions, modifications and new analytical methods, volume 2
[ESA-CR(P)-1779-VOL-4] 12 p1780 N84-21616
Thermal design verification of the large open truss structures. The local approach and the shadow problem — large space structures 12 p1780 N84-21617
Interrelationship between temperature intervals of inverse martensite transformation and shape restoration in titanium nickelide-based alloys
12 p1786 N84-21648
Moisture and temperature effects on the mixed-mode delamination fracture of unidirectional graphite/epoxy
[DREP-TM-83-22] 12 p1789 N84-21665
Creep and creep recovery of 2618-T61 aluminum under variable temperature
[AD-A137976] 12 p1797 N84-21723
Low temperature quartz crystal oscillator fast warm-up SAW oscillator
[AD-A138024] 12 p1811 N84-21806
Method of reducing temperature in high-speed photography
[NASA-TM-83620] 12 p1907 N84-22421
Rheological study of clay-kaolin aqueous suspensions
[NASA-TM-77383] 14 p2121 N84-23711
Ground-coupled heat pump demonstration
[PB84-156223] 14 p2135 N84-23797
Nimbus-Earth radiation budget instrument analysis
[NASA-CR-172318] 14 p2175 N84-24029
Temperature dependance and temporal fluctuations of the birefringence of some single-mode fibers
[FI-452-TBR-56] 14 p2225 N84-24356
Space environment effects on fiber optics systems
15 p2279 N84-24689
The effect of cooling rate from the gamma-phase on the strain-rate sensitivity of a uranium 2w/o molybdenum alloy
[QUEL-1492/83] 15 p2296 N84-24779
The influence of Al2O3 and surface scales on alloy degradation at elevated temperatures
[DE84-007299] 15 p2298 N84-24794
Stresses in and around double confocal spheroids embedded in infinite media 15 p2314 N84-24883
Elastohydrodynamic lubrication. Status of understanding 15 p2340 N84-25048
The effect of loading rate and temperature on fracture initiation toughness in a low strength steel
15 p2401 N84-25410
Thermal actuation of extinguishing systems
[PB84-177156] 16 p2478 N84-25886
The threshold temperature effect in high-voltage spacecraft charging
[AD-P002120] 16 p2524 N84-26206
The particle and ultraviolet (UV) radiation testing of space materials
[ESA-PSS-01-706-ISSUE-1] 16 p2555 N84-26393
Prediction of ductile crack growth in the austenitic steel WN 1.4948 at ambient and elevated temperature
[REPT-5011202-81-2] 17 p2625 N84-26799
Residual stresses in long double-layer cylinder under nonsteady cooling 17 p2651 N84-26953
Laboratory discharge studies of a 6 V alkaline lantern-type battery Eveready Energizer no. 526, under various ambient temperatures (-15 deg C and + 22 deg C) and loads (30 omega and 60 omega)
18 p2800 N84-27772
Torsional and axial hot fatigue characterization of the Z2 NKD 18-8-5 steel (maraging 250): Specimens obtained from a bar. Summary of test number M3 418700
18 p2815 N84-27874
Tensile properties of plastic propellant ICP 200-P129 with CIS 1.4 polyisoprene
[INTA-NT-N-223/410/83.038] 18 p2821 N84-27913
Experiences with a PDS 2020 GM
18 p2840 N84-28028
Simplified thermal transient test for electro explosive devices
[AD-A132970] 18 p2844 N84-28060
An improved analysis of the thermal buckling of silicon sheet 18 p2938 N84-28833
Effects of long-time elevated temperature exposures on hot-isostatically-pressed power-metallurgy Udimet 700 alloys with reduced cobalt contents
[NASA-TM-83632] 19 p2965 N84-28917
Photochemical oxidation of hydrogen iodide by oxygen
[BLL-CE-TRANS-7989-(9022.09)]
19 p2967 N84-28925
Determination of the optimum crystallization conditions of a high thermal expansion glass-ceramic
[DE84-009734] 19 p3000 N84-29014
Operating characteristics of a three-piece-inner-ring large-bore roller bearing to speeds of 3 million DN
[NASA-TP-2355] 19 p3031 N84-29226
Spatial patterns of climate and climatic change. Part 1: Summary report, appendices 1-5
[DE84-010253] 19 p3059 N84-29408
A turbomechanical thrust vector control for advanced intercontinental ballistic missiles
20 p3143 N84-29953
Creep-fatigue and temperature synergisms in alloy 800
[DE84-010131] 20 p3157 N84-30046
The effects of solid solution temperatures and cooling rates on the microstructures of BT3-1 titanium alloy
20 p3160 N84-30066
The effects of strain rate and temperature on the fracture behavior of three structural adhesives
[AD-B084418] 20 p3164 N84-30097
The temperature sensitivity of doubly rotated quartz resonators
[AD-A142537] 20 p3178 N84-30186
EValuation of a 96V EV 1000 battery pack at temperature extremes
[PB84-187723] 20 p3182 N84-30217
Evaluation of 96V exide EPV23-3 battery pack at temperature extremes
[PB84-187749] 20 p3182 N84-30218
Evaluation of an 96V ALCO 2200 battery pack at temperature extremes
[PB84-187731] 20 p3182 N84-30219
The design and testing of an electrolyte destratification system applied to a 96 V Alco 2200 battery
[PB84-184894] 20 p3237 N84-30550

Salinity and temperature effects on photosynthesis and organic carbon release rates by selected benthic macroalgae
[PB84-163146] 20 p3257 N84-30674
Some scoping experiments for a space reactor
[DE84-009101] 20 p3296 N84-30941
Temperature derivatives of elastic stiffnesses and frequency-temperature behavior of quartz crystal plates
21 p3418 N84-31675
Fatigue crack growth behavior of an oxide dispersion strengthened MA956 alloy
[AD-A142059] 21 p3421 N84-31702
Creep-fatigue interactions in advanced eutectic superalloys
[AD-A142672] 21 p3422 N84-31705
Effect of thermal irradiation from evaporation source to photo-darkening sensitivity of vacuum deposited AgBr film 21 p3477 N84-32038
Low temperature evaluation of advanced technology hydraulic system (9,000 psi)
[AD-A143389] 22 p3536 N84-32396
Association and bound motion in alkali metal doped cadmium fluoride
[AD-A143200] 22 p3546 N84-32450
Effect of thermal aging on the output of a pyrotechnic actuator
[DE84-012903] 22 p3562 N84-32558
Hot-spot investigations of utility scale panel configurations 22 p3582 N84-32687
Stresses and displacements in linear Maxwell non-isothermal circular plates on Winkler foundation and with radial and transverse variation in material properties
22 p3608 N84-32856
Correlation between plasma fibronectin level and mortality following experimental rate heat stress
[AD-A143383] 22 p3628 N84-32991
Liquified natural gas densities: Summary of research program at the National Bureau of Standards
[PB84-202647] 22 p3675 N84-33297
Effect of thermocyclic processing on phase composition and structure of VT22 alloy 23 p3709 N84-33511
The influence of grain structure, testing temperature and environment on the monotonic and low cycle fatigue behavior of a high strength aluminum-copper-lithium alloy 23 p3716 N84-33556
Embrittlement of 4340 type steel by liquid lead and antimony and lead-antimony solutions
[AD-A143785] 23 p3718 N84-33567
Oxidation characteristics of molybdenum-zirconium oxide cermets
[NASA-TM-77622] 23 p3723 N84-33594
Reserve Li/SOCl2 battery safety testing
23 p3736 N84-33678
Shunt diode designs in Li/CF Shuttle batteries
23 p3737 N84-33681
Finite temperature effects on the evolution of ionospheric barium clouds in the presence of a conducting background ionosphere
[AD-A143592] 23 p3798 N84-34062
The effect of lesions in the preoptic-anterior hypothalamus on the reflexive responses of rats to cold stress
[AD-A144020] 23 p3805 N84-34126
Effect of annealing under thermodynamically stable conditions on the formation and transformation of structural defects in diamond monocrystals
[CSIR-TRANS-1737] 23 p3829 N84-34268
LEO atomic oxygen effects on spacecraft materials: STS-5 results
[NASA-TM-86463] 24 p3867 N84-34506
Thermal effect of pulsed laser irradiation on the surface of metallic mirrors 24 p3869 N84-34519
Dynamic stress in elastic areas developing upon interaction of intensive heat fluxes with solid bodies
24 p3873 N84-34545
Mechanical behavior of carbon-carbon composites
[NASA-CR-174767] 24 p3878 N84-34575
Investigation of thermal coking rates of Air Force jet fuels
[AD-A144421] 24 p3890 N84-34631
Selection rules for the spontaneous phase transitions in magnetoelastic metamagnets
[DE84-701200] 24 p3960 N84-35070

TEMPERATURE FIELDS
U TEMPERATURE DISTRIBUTION

TEMPERATURE GRADIENTS
NT THERMOCLINES
The yield stress and strain-rate sensitivity of nickel over a wide temperature range
[DE83-016913] 02 p0197 N84-11279
An analysis of the annual temperature wave propagating through an alluvial soil
[DE83-014883] 02 p0219 N84-11434
Characterization of the general purpose research furnace for low-G directional solidification experiments
[NASA-TM-85718] 04 p0489 N84-13211
Note on evaporation in capillaries
[AD-A132950] 05 p0650 N84-14275
Aerothermal modeling, phase 1. Volume 2: Experimental data
[NASA-CR-168296-VOL-2] 06 p0790 N84-15158
Tensile and compressive constitutive response of 316 stainless steel at elevated temperatures
[NASA-TM-83506] 06 p0805 N84-15249
Design and use of nonstandard tensile specimens for irradiated materials testing
[DE84-001468] 06 p0806 N84-15254
Effects of hydrogen on strength and ductility of tantalum 06 p0807 N84-15260
Ocean temperature changes induced by tropical cyclones 06 p0879 N84-15722
High gradient directional solidification furnace — for space processing
[NASA-CASE-MFS-25963-1] 07 p1007 N84-16531
Energetic materials separations and specific polymorph preparations via thermal gradient sublimation
[DE84-002830] 09 p1290 N84-18422
Deep diode arrays for X-ray detection
[NASA-CR-175178] 09 p1306 N84-18537
Consequences of a chromospheric temperature gradient on the width of H Alpha in late-type giants
[NASA-CR-173359] 09 p1415 N84-19260
Effect of electromagnetic stirring on weld pools
[AD-A136718] 10 p1460 N84-19532
Analysis of observed and modeled mixed layers: Nocal (northern California) region
[AD-A136773] 10 p1543 N84-20109
Vertical temperature gradient in troposphere and its relationship to surface temperature according to empirical data 11 p1671 N84-20902
The night airglow O2(1-Sigma) atmospheric band at 8645A and the rotational temperature observed at 23 deg S
[INPE-3021-PRE/459] 12 p1846 N84-22034
On the bimodality of temperature and moisture near stratocumulus cloud tops 12 p1858 N84-22101
Measuring the temperature coefficients of the elastic constants of indium phosphide
[AD-A138454] 12 p1915 N84-22474
Thermoelastic stresses in metal with temperature: Dependent properties in radiant heating
[BLL-M-35526-(5828.4)] 13 p1960 N84-22733
Analysis and calculation of macrosegregation in a casting ingot, exhibits C and E
[NASA-CR-171030] 14 p2127 N84-23752
New acid-proof protective coating
14 p2136 N84-23806
Optimal design of rotating disk with temperature gradient 15 p2313 N84-24877
Flow and free surface of a non-Newtonian fluid between concentric cylinders maintained at unequal temperatures
15 p2315 N84-24893
The nicrosil versus nisil type N thermocouple: A commercial reality
[MRL-R-903] 16 p2495 N84-26005
Morphology of the scattering target: Fresnel and turbulent mechanisms 17 p2684 N84-27067
Asymptotic form of solution of problem of seasonal evolution of thermal regime in ocean
17 p2699 N84-27194
Forming of upper homogeneous layer in Mediterranean basin 17 p2699 N84-27195
Evaluations of coefficient of vertical exchange in lower thermosphere 18 p2864 N84-28185
Characterization of filament wound Kevlar and glass composites for rocket motor applications
20 p3142 N84-29949
Directional growth of pearlite in Fe-C eutectiod alloys
[DE84-007368] 20 p3156 N84-30042
Overground Excess Sound Attenuation (ESA). Volume 2: Analysis of data for flat grassy terrain conditions
[AD-A142420] 20 p3291 N84-30892
Thermoacoustic couple
[DE84-011296] 20 p3291 N84-30895
Temperature rise calculations for the beam pipe in the SLC arcs
[DE84-011764] 20 p3295 N84-30924
Nonlocal heat transport by non-Maxwellian electrons
[DE84-012391] 20 p3306 N84-31000
Geological and geothermal investigation of the lower Wind River valley southwestern Washington Cascade Range
[DE84-012545] 21 p3431 N84-31771
On the zonally averaged temperature in the Southern Hemisphere
[INPE-3139-PRE/526] 21 p3443 N84-31846
Discussion of the Ionian and Levantine Seas
[DE84-011562] 21 p3451 N84-31898
Generalization of results of electro-simulation of temperature of the piece during centrifugal cladding
[BLL-M-35687-(5828.4)] 22 p3551 N84-32479
Influence of microalloying with titanium and boron on cold resistance of structural steel
[BLL-M-35698-(5828.4)] 22 p3551 N84-32483
Influence of direct current on temperature gradient in directionally solidifying ingot of alloy YuNDK35T5
[BLL-M-35684-(5828.4)] 22 p3553 N84-32495
A procedure for determining the tempo at which alloys solidify
[BLL-M-35642-(5828.4)] 22 p3553 N84-32497
Manipulation of the mixing process between streams of different velocity and temperature in the presence of pressure gradient
[AD-A143467] 22 p3593 N84-32757
X33 cut quartz for temperature compensated saw devices
[AD-D011200] 24 p3903 N84-34713

TEMPERATURE INDICATORS
U INDICATING INSTRUMENTS
U TEMPERATURE MEASURING INSTRUMENTS

TEMPERATURE INSTRUMENTS
U TEMPERATURE MEASURING INSTRUMENTS

TEMPERATURE INVERSIONS
NT CENTRIFUGING STRESS
NT INTERFACIAL TENSION
Tests of an inversion algorithm for spectrally resolved limb emission
[AD-A134128] 05 p0733 N84-14814
Wave characteristics of temperature inversion process of nighttime radiation
[AD-A136499] 09 p1348 N84-18809
Case study of layer fine structure and turbulence within stable elevated layers
[PB84-158666] 14 p2182 N84-24076
Comparison of qualitative and quantitative measurements of temperature turbulence with monostatic sodar 16 p2665 N84-28188
Effect of antiscreening of outgoing thermal radiation by cloud cover 20 p3224 N84-30490
Predictability of inversions at Vandenberg (VBG) AFB, California
[AD-A144042] 23 p3802 N84-34107

TEMPERATURE MEASUREMENT
Meteorological and climatological approach in determining snowpack accumulation at snow course sites in a Montana watershed
[PB83-226852] 01 p0110 N84-10714
CTD transect of the Kuroshio Extension 27-42 deg N, 152 deg E
[AD-A131329] 01 p0111 N84-10721
Process, product, and waste-stream monitoring with fiber optics
[DE83-001102] 03 p0441 N84-12899
Stratified maximum temperature relationships between sixteen zone stations in Arizona and respective key stations
[PB83-249904] 04 p0568 N84-13746
Fiber optics temperature and pressure probe
[DE84-001785] 04 p0605 N84-13990
A practical sublimation source for large-scale chromium gettering in fusion devices
[DE84-000724] 04 p0606 N84-14002
Techniques to extend ozonesonde temperature data to the mesopause
[DE84-002749] 05 p0705 N84-14623
Aerothermal modeling. Executive summary
[NASA-CR-168330] 06 p0790 N84-15152
Acoustical modes of arbitrary volumes using NASTRAN transient heat transfer RF9 06 p0859 N84-15597
A diagnostic case study of the effects of deep extratropical convection on the large-scale temperature and moisture structure 06 p0875 N84-15695
Determination of the static performance of a Cuyuna cc model UL-430RR engine
[NASA-CR-175354] 07 p0953 N84-16179
Rotational temperature measurements in free jet expansions of N2 using the electron beam fluorescence technique 07 p0984 N84-16376
Rotational CARS application to simultaneous and multiple-point temperature and concentration determination in a turbulent flow
[NASA-CR-175334] 07 p1001 N84-16489
Dynamic gas temperature measurement system, volume 1
[NASA-CR-168267-VOL-1] 07 p1007 N84-16529
A comparison of SMMR (Scanning Multichannel Microwave Radiometer) and airborne microwave measurements during GOASEX (Gulf of Alaska experiment)
[AD-A134514] 07 p1008 N84-16534
Photodiagnostics of turbulent flows using laser-induced fluorescence
[NASA-CR-166546] 08 p1155 N84-17519
TERR, PERR, and GIGC: Three programs to compute verification statistics
[PB84-127521] 08 p1193 N84-17775

Hydrographic station data of five surveys of the beta-triangle in the eastern North Atlantic, 1978 - 1981
[PB84-100874] 08 p1196 N84-17800
Shock temperatures in anorthite glass
[NASA-CR-173364] 09 p1287 N84-18401
Experimental results for the rapid determination of the freezing point of fuels
[NASA-CR-168305] 09 p1290 N84-18419
Meteorological Satellite Center Technical Note, no. 8, 1983
[ISSN-0368-9653] 09 p1346 N84-18796
A comparison of moisture and temperature fields derived from meteorological satellite vertical sounding (NOAA-TOVS) data with Rawinsonde data, part 2
09 p1347 N84-18796
Effects of long-term low-level radiofrequency radiation exposure on rats. Volume 2: Average SAR and SAR distribution in man exposed to 450-MHz RFR
[AD-A135455] 09 p1361 N84-18891
Thermal test data analysis --- satellite design
10 p1447 N84-19450
Comparisons of Naval Air Station, NOWRA oceanographic analyses with independently obtained ship and satellite data
[AD-A136462] 10 p1526 N84-19994
Swirls and plumes or application of statistical methods to satellite-derived sea surface temperatures
[AD-A135462] 10 p1528 N84-20010
A model to calculate hourly temperatures from three regular readings, part 3
[KNMI-165-3] 10 p1540 N84-20093
A parametric study of ramrocket performance
[ARL-MECH-ENG-NOTE-395] 11 p1625 N84-20633
Parametric analysis of hollow conductor parallel and coaxial transmission lines for high frequency space power distribution
[NASA-TM-83601] 11 p1625 N84-20639
Satellite observations of fronts and frontal meanders in the Central North Pacific Ocean
11 p1671 N84-20903
Annual and interannual variability in the Kuroshio Current System
[AD-P002665] 11 p1691 N84-21030
Method for thermal monitoring subcutaneous tissue
[NASA-CASE-LAR-13028-1] 11 p1694 N84-21053
Three-way partitioning of sea surface temperature measurement error 12 p1836 N84-21969
Determination of sea surface temperatures from high resolution infrared satellite measurements
[REPT-115] 12 p1837 N84-21975
Optical gas temperature measurement in gas turbines
[PNR-90174] 13 p1933 N84-22572
Three-color pyrometer for burning particle temperature measurement 13 p1943 N84-22635
Procedure for wall temperature measurement in a metal vapor laser 13 p1968 N84-22777
Infrared temperature measurements in combustion systems
[PNR-90170] 13 p1994 N84-22942
In-flight atmospheric and fuel tank temperature measurements 14 p2108 N84-23643
Solar absorptance and thermal emittance of some common spacecraft thermal-control coatings
[NASA-RP-1121] 14 p2119 N84-23698
Evaluation tests of platinum resistance thermometers for a cryogenic wind tunnel application
[NASA-TM-85803] 14 p2148 N84-23865
Standard Reference Materials (SRM) 1969: Rubidium triple-point standard: A temperature reference standard near 39.30C
[PB84-149996] 14 p2149 N84-23876
A preliminary study of the feasibility of detecting long-term trends in atmospheric humidity
[DE84-006417] 14 p2180 N84-24055
LDEF thermal measurements system (P0003)
15 p2274 N84-24854
Preliminary experiments with an electro-osmotic heat pipe laboratory model
[AD-B081344] 15 p2332 N84-25004
Optical measurements of fluctuating temperatures in a supersonic turbulent flow using one- and two-photon, laser-induced fluorescence
[NASA-TM-85949] 15 p2336 N84-25020
Low Temperature Science. Series A: Physical Science
[ISSN-0439-3538] 15 p2352 N84-25112
A model atmosphere analysis of the Am star 68 Tau
15 p2422 N84-25548
Activities report of the Division of Quantum Metrology
[NPL-QU-AR-82] 16 p2494 N84-26002
Evaluation of thermocouple and thermal radiation instrumentation for measuring gas turbine combustor liner temperature
[NAL-TR-784] 16 p2495 N84-26009
A sensitive optical pyrometer for shock-temperature measurements
[NASA-CR-173602] 16 p2495 N84-26011
V-V compact group of galaxies
[NASA-CR-173609] 16 p2577 N84-26537
Development of an instrumented riser joint --- for offshore platforms stress measurement
17 p2629 N84-26618
Soft X-ray electron temperature measurements on TORTUR
[REPT-84-151] 17 p2766 N84-27568
Magnetometer for study of temperature variation of saturation magnetism of rock specimens
18 p2864 N84-28182
Dilution jets in accelerated cross flows
[NASA-CR-174717] 19 p2966 N84-28794
Ductile-brittle transition temperature measurement of temper embrittled Ni-Cr steels by means of small punch tests
[DE84-012833] 20 p3158 N84-30054
Using chemically reactive tracers to determine temperature characteristics of geothermal reservoirs
[DE84-011373] 20 p3242 N84-30580
Investigation of laminar shocks
[DE84-010074] 20 p3242 N84-30582
Automated analysis of upper air soundings to specify precipitation type
[PB84-174333] 20 p3248 N84-30617
Ohmic heating to 100-eV and helicity injection in CTX
[DE84-007494] 20 p3304 N84-30966
The Record of Electrical and Communication Engineering Conversazione, volume 53, no. 1, Jul. 1984
[ISSN-0385-7719] 22 p3563 N84-32565
A study on accurate frequency-control of semiconductor lasers 22 p3563 N84-32566
Thermoscopic study of diffraction current distribution
22 p3565 N84-32583
Hydrographic measurements in the western Arboran Sea, October 1982
[AD-A143568] 22 p3627 N84-32985
Special test methods for batteries
23 p3738 N84-33695
Multipoint method for sample temperature measurement in a mirror furnace
[TS-14-83] 23 p3752 N84-33789
Snow cover observations at Avalanche Research Station, Tokanbetsu, northern Hokkaido, 15 (1982-1983 winter) 23 p3762 N84-33844
Combined ground-based and satellite remote sensing of temperature 23 p3774 N84-33926
Barreira do Inferno: Five years of ozone research
[INPE-2974-PRE/437] 23 p3796 N84-34073
Thermistor chain observations during MILDEX (mixed layer dynamics experiment)
[AD-A143933] 23 p3803 N84-34114
Estimating target temperature in laser experiments in nitrogen at high pressures 24 p3874 N84-34548

TEMPERATURE MEASURING INSTRUMENTS
NT BATHYTHERMOGRAPHS
NT PYROMETERS
NT RESISTANCE THERMOMETERS
NT TEMPERATURE PROBES
NT THERMOCOUPLE PYROMETERS
NT THERMOMETERS
An assessment of the benefits of using infrared thermography to measure the temperature of discrete electronic components operating in a vacuum
[AD-A134350] 07 p0997 N84-16485
E/O (Electro-Optical) augmentation environmental temperature test
[AD-A134296] 07 p1075 N84-16988
Hot-wire measurements of velocity and temperature fluctuations in a heated turbulent boundary layer
[AD-A135212] 08 p1158 N84-17538
Heat transfer measurements in cold wind tunnels
[AD-A135740] 09 p1315 N84-18591
Investigation of a rainwater flow and temperature measuring device in a moist atmosphere refrigerant --- cooling ponds
[HT-31.82.11] 09 p1317 N84-18602
Atomic and molecular gas phase spectrometry
[AD-A135971] 09 p1392 N84-19088
A high accuracy temperature measurement on a diagnostic canister for the Nevada test site
[AD-P002678] 11 p1658 N84-20815
Method for thermal monitoring subcutaneous tissue
[NASA-CASE-LAR-13028-1] 11 p1694 N84-21053
LDEF thermal measurements system (P0003)
15 p2274 N84-24854
Thermocouple simulation: A calibration technique
[DE84-012408] 21 p3406 N84-31606
Three-wire static strain gage apparatus
[AD-D011130] 22 p3596 N84-32776

TEMPERATURE PROBES
The impact of satellite temperature soundings on the forecasts of a small national meteorological service
17 p2717 N84-27295

TEMPERATURE PROFILES
National Weather Service public forecast verification summary, April 1978 to March 1982
[PB83-232173] 01 p0110 N84-10716
Mesoscale moisture fields retrieved from satellite infrared radiances in nocturnal inversion cases
05 p0705 N84-14629
A statistical approach for determining subsurface thermal structure from sea surface temperature in the northeast Pacific Ocean
[AD-A132204] 05 p0711 N84-14658
XCP measurements off California in October 1982: Cruise report and preliminary results
[AD-A133051] 06 p0885 N84-15754
Analysis of observed and modeled mixed layers: Nocal (northern California) region
[AD-A136773] 10 p1543 N84-20109
Dilution jet experiments in compact combustor configurations 11 p1611 N84-20545
Solar-blind Raman lidar, phase 2
[AD-A137604] 11 p1732 N84-21295
Comparison of AMSU temperature soundings with those produced by HIRS and AMTS 12 p1851 N84-22057
Results of the joint NASA/NOAA AMTS/HIRS2 sounding simulation test 12 p1851 N84-22059
Improved HIRS2/MSU soundings using tropopause information 12 p1851 N84-22060
A new algorithm for tuning of computed radiances for HIRS2/MSU 12 p1852 N84-22063
The prediction of tropopause height from clusters of brightness temperatures and its application in the stratified regression temperature retrievals using microwave and infrared satellite measurements
12 p1852 N84-22064
Applications of cluster analysis to satellite soundings
12 p1852 N84-22065
Condensed phase temperature profiles in deflagrating HMX 13 p1947 N84-22657
A statistical evaluation and comparison of VISSR Atmospheric Sounder (VAS) data and corresponding rawinsonde measurements
[NASA-TM-82575] 13 p2016 N84-23071
Electron Cyclotron Emission (ECE) measurements on the TORTUR 3 Tokamak
[REPT-83-148] 13 p2045 N84-23274
MM-wavelength measurements of CO in the atmosphere of Mars and SO2 in the atmosphere of Venus
13 p2072 N84-23429
The structure of the Ionian lithosphere
13 p2073 N84-23435
Performance of a high-work low aspect ration turbine tested with a realistic inlet radial temperature profile
[NASA-TM-83655] 15 p2262 N84-24589
Internal gravitation waves in a stably stratified atmosphere
[KBMI-WR-84-1] 15 p2368 N84-25208
Temperature and humidity profiles in the atmosphere from spaceborne lasers: A feasibility study
17 p2716 N84-27292
Simultaneous retrieval of atmospheric temperatures and ray paths from occultation spectra
[NASA-CR-173849] 17 p2726 N84-27354
Wind velocity and temperature profiles in atmospheric surface layer for neutral and unstable stratification conditions 18 p2865 N84-28189
The advantages of sounding with the smaller detectors of the VISSR atmospheric sounder
[NOAA-TM-NESDIS-6] 20 p3240 N84-30571
Temperature oscillations and ozone correlations in the lower stratosphere of Natal (6 deg S)
[INPE-3116-PRE/512] 21 p3443 N84-31844
Temperature profiles from Salt Valley, Utah
[DE84-900996] 21 p3444 N84-31854
Acoustic propagation in a thermally stratified atmosphere
[NASA-CR-173863] 21 p3491 N84-32121
High efficiency heat pump using ground heat source
[DE84-006365] 22 p3594 N84-32761
Hydrographic measurements in the western Arboran Sea, October 1982
[AD-A143568] 22 p3627 N84-32985
Thermistor chain observations during MILDEX (mixed layer dynamics experiment)
[AD-A143933] 23 p3803 N84-34114
Atmosphere temperature profile recovery using partial interferometry
[AD-A144196] 24 p3919 N84-34810
Evaluation and development of new VAS remote sensing algorithms 24 p3933 N84-34894

TEMPERATURE SENSORS
NT THERMISTORS

Metallic glass as a temperature sensor during ion plating
[NASA-TM-83566] 06 p1130 N84-17351
Instrumentation requirements for small scale towed temperature measurements
[AD-A139897] 15 p2336 N84-25026
Intelligent instruments for process measurement techniques (monitoring of sensors)
[BMFT-FB-T-84-078] 21 p3407 N84-31611
Temperature controlled gyro
[AD-D011138] 22 p3586 N84-32777

TEMPERING
Fracture resistance of hardened and tempered pipes of 16GFR steel
[BLL-M-35268-(5828.4)] 06 p0857 N84-15584
Effect of heat treatment on the impact properties of a 12Cr-1Mo-V-W steel
[DE84-003440] 07 p0976 N84-16324
Reactor pressure vessel steels ASME SA 533B and SA508.C1.2: Microstructural investigations --- heat treatment effects
[VTT-RR-219] 07 p0977 N84-16333
Tempering kinetics of alloy steels as a function of quench rate and M sub s temperature
[AD-A134806] 08 p1132 N84-17365
A study of the tempering transformation of retained austenite in isothermal quenching structures, bainite tempered embrittlement 20 p3159 N84-30065
Aircraft landing dynamics facility carriage weld test program
[NASA-TM-85802] 22 p3603 N84-32827

TEMPLATES
The role of the tetrapropylammonium template in the synthesis of zeolite ZSM-5
[CSIR-CENG-413] 04 p0493 N84-13236
New machines for grinding, facetting and profiling hard materials
[CSIR-TRANS-1750] 22 p3603 N84-32821

TEMPORAL DISTRIBUTION
Nonparametric estimation of the distribution of time to onset for specific diseases in survival/sacrifice experiments
[DE83-013726] 01 p0112 N84-10726
Temporal and spatial distribution of exhumed topography 13 p2067 N84-23517
Temperature dependance and temporal fluctuations of the birefringence of some single-mode fibers
[FI-452-TBR-56] 14 p2225 N84-24356
Strong earthquake spatial-temporal correlations 18 p2860 N84-28162
Biological oceanography 20 p3217 N84-30437
Monthly mean determination of the solar semidiurnal surface pressure oscillation at Batavia from 1866 through 1944
[PB84-184795] 20 p3244 N84-30593
The spatial and temporal distribution of diffuse and direct solar radiation in the Federal Republic of Germany
[BMFT-FB-T-84-125] 23 p3802 N84-34110

TEMPORAL RESOLUTION
An extreme ultraviolet study of Tokamak plasmas using a time-resolving spectrograph 05 p0748 N84-14915
Large area spark counter with fine time and position resolution
[DE84-006203] 19 p3028 N84-29202
In-flight absolute radiometric calibration of the Thematic Mapper 20 p3208 N84-30383
LANDSAT scene-to-scene registration accuracy assessment 20 p3212 N84-30406
LANDSAT-4 MSS geometric correction: Methods and results 20 p3213 N84-30409
Real-time optical filtering system with spatial and temporal enhancement of visual information
[AD-D011106] 22 p3656 N84-33172

TENNESSEE
Geologic map and mineral resources summary of the Farner Quadrangle, Tennessee and North Carolina
[DE83-902866] 02 p0240 N84-11576
An initial analysis of LANDSAT 4 Thematic Mapper data for the classification of agricultural, forested wetland, and urban land covers
[E84-10073] 07 p1020 N84-16620
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: McGhee-Tyson Airport, Tennessee
[AD-A140245] 16 p2530 N84-26245
A compilation of mineral occurrences and the relationship of occurrences to structural elements of the Kentucky and Tennessee region
[NASA-CR-175240] 18 p2878 N84-28275
An initial analysis of LANDSAT-4 Thematic Mapper data for the discrimination of agricultural, forested wetland, and urban land covers 20 p3213 N84-30414

TENSILE CREEP
Prediction of creep and creep relaxation of AL 2618 under variable multiaxial stresses
[AD-A136950] 15 p2297 N84-24788

TENSILE DEFORMATION
Stress-state index and Nadai-Lode parameter
[BLL-M-35433-(5828.4)] 06 p1169 N84-17612
Nonlinear geometric, material and time dependent analysis of reinforced concrete shells with edge beams
[PB84-104454] 08 p1173 N84-17639
Deformation and iracture of P/M titanium alloys
[AD-A135612] 09 p1283 N84-18378
Identification of strain-softening properties and computational predictions of localized fracture
[AD-A141866] 19 p3036 N84-29258

TENSILE PROPERTIES
Beta titanium alloy metal-metal laminates: Fabrication, structure and mechanical properties
[AD-A130378] 01 p0043 N84-10278
Tensile, compressive, and shear properties of a 64-kg/m3 polyurethane foam at low temperatures
[PB83-204815] 01 p0051 N84-10330
Tensile behavior of three commercial ferritic steels after low-temperature irradiation
[DE83-014044] 02 p0195 N84-11264
Tensile and low-cycle fatigue measurements on cross-rolled tungsten at 1505 K
[DE84-000805] 04 p0499 N84-13273
A comparison of the irradiated tensile properties of a high-manganese austenitic steel and type 316 stainless steel
[DE84-000260] 04 p0502 N84-13294
Influence of a flowing-lithium environment on the fatigue and tensile properties of type 316 stainless steel
[DE84-000611] 04 p0503 N84-13295
Degradation of fracture toughness in steels due to prior strain: A predictive model
[AD-A132600] 05 p0654 N84-14300
A study of polymer matrix fatigue properties
[AD-A135076] 06 p1122 N84-17294
Effects of JP-4 fuel on Graphite/Epoxy composites
[AD-A135416] 06 p1122 N84-17296
Correlation of fracture toughness with tensile properties for irradiated 20% cold-worked 316 stainless steel
[DE84-003954] 08 p1135 N84-17379
Over-aging of aluminum alloys
[DE84-004927] 08 p1135 N84-17382
Mechanical and transport properties of rocks at high temperatures and pressures. Task 3. Mechanical properties of rocks at high temperatures and pressures
[DE84-003436] 08 p1188 N84-17740
Fatigue life analysis and tensile overload effects with high strength steel notched specimens
[AD-A136065] 09 p1284 N84-18384
Hydrolytic degradation of kapton film
[AD-A139016] 13 p1964 N84-22762
Liquid crystal polyester-carbon fiber composites
[NASA-CR-172323] 17 p2618 N84-26754
Tensile properties of plastic propellant ICP 200-P129 with CIS 1.4 polyisoprene
[INTA-NT-N-223/410/83.038] 18 p2821 N84-27913
Ring ductility of irradiated Inconel 706 and Nimonic PE16
[DE84-010397] 20 p3155 N84-30034
Characterization of block copolymers based on poly(3,3 -bis(ethoxymethyl)oxetane) and other novel polyethers
[AD-A142608] 20 p3162 N84-30061

TENSILE STRENGTH
The effect of damage on the tensile and compressive performance of carbon fibre laminates 01 p0034 N84-10213
Study on strength, elastic modulus of artifical lightweight aggregate concrete
[PB83-224824] 01 p0059 N84-10389
Cryogenic insulation strength and bond tester
[NASA-CASE-MFS-25910-1] 02 p0199 N84-11297
Failure processes in elastomers at or near a rigid spherical inclusion
[AD-A132060] 03 p0356 N84-12314
Tensile strength of pressureless-sintered silicon nitride at elevated temperature
[NAL-TR-753] 04 p0548 N84-13611
Crack propagation in polystyrene under fixed elongation
[AD-A134749] 06 p1138 N84-17399
Integrated evaluation of tensile strengths and ductility limits
[BLL-M-35452-(5828.4)] 08 p1169 N84-17613
A study on the tensile strength of ice as a function of grain size
[AD-A134889] 08 p1172 N84-17631
Concrete tensile strength study
[PB84-101021] 08 p1172 N84-17637
Effects of variations in heat treatment on the mechanical properties and microstructure of ASTM A710 Grade A Class 3 steel
[AD-A136328] 09 p1282 N84-18371
Effects of fuels on the physical properties of nitrile rubber O-rings
[AD-A136647] 10 p1470 N84-19599
Tensile, comprehensive and sharp properties of a 96 kg/m3 cubic meter Polyurethane foam at low temperatures
[PB84-143643] 11 p1638 N84-20710
Pretreatment of Kapton-coated cable for epoxy adhesion
[DE84-006265] 11 p1661 N84-20837
Process for producing parts with deep pocketed precision cavities using P/M shape technology
[DE84-006566] 12 p1799 N84-21733
Revision of design values for 7075-T7351 and 7075-T7651 aluminum plate
[AD-A139092] 13 p1961 N84-22740
Strength evaluation test of pressureless-sintered silicon nitride at room temperature
[NASA-TM-77394] 14 p2119 N84-23700
Method for strengthening boron fibers
[NASA-CASE-LEW-13826-2] 15 p2264 N84-24711
Analysis of symmetric reinforcement of quasi-isotropic graphite-epoxy plates with a circular cutout under uniaxial tensile loading
[AD-A139998] 15 p2285 N84-24715
Observations on the fracture of fiberous composites 15 p2311 N84-24865
Corrosion control for reinforced concrete
[AD-A139974] 15 p2317 N84-24909
Material selection for controlling stress-corrosion cracking
[ESA-PSS-01-736-ISSUE-1] 16 p2465 N84-25799
Tensile strength and recrystallization of the 7010 and 7475 alloys: Low cycle fatigue of the 7010 alloy --- aluminum alloys
[REPT-18/5069-M] 18 p2815 N84-27873
Effects of long-time elevated temperature exposures on hot-isostatically-pressed power-metallurgy Udimet 700 alloys with reduced cobalt contents
[NASA-TM-83632] 19 p2965 N84-28917
Synthesis and toughness properties of resins and composites 20 p3146 N84-29973
Tensile strength of composite sheets with unidirectional stringers and crack-like damage 20 p3146 N84-29974
A study of stiffness, residual strength and fatigue life relationships for composite laminates
[NASA-CR-172211] 20 p3146 N84-29978
Grain-refining heat treatments to improve cryogenic toughness of high-strength steels
[NASA-TM-85816] 20 p3152 N84-30014
Influence of processing on the cryogenic mechanical properties of high strength high manganese stainless steel
[DE84-008242] 20 p3154 N84-30027
The effect of injection molding processing parameters on the environmental stress cracking resistance of polycarbonate moldings
[MRL-R-924] 20 p3201 N84-30332
The changes in the compressive and tensile yield strengths during uniaxial cyclic loading 21 p3418 N84-31674
Materials for Advanced Turbine Engines (MATE): Project 3: Design, fabrication and evaluation of an oxide dispersion strengthened sheet alloy combustor liner
[NASA-CR-174691] 22 p3554 N84-32504
Microstructural development and control in liquid phase sintering; processing, structures and properties of cold worked metal matrix composites
[AD-A143188] 22 p3555 N84-32509
Simple examples of non linear truss behavior
[AD-A143368] 22 p3611 N84-32882
Evaluation of the effects of stress state and interfacial properties on the behavior of advanced metal matrix composites
[AD-A143911] 23 p3711 N84-33525
How some test variables affect bending, tension, and compression values for particle panel products
[AD-A143627] 23 p3761 N84-33836
Optimization of initial microstructures of OT4-1 alloy elements joined by diffusion welding 24 p3875 N84-34558
Ground exposure of composite materials for helicopters
[NASA-TM-86311] 24 p3879 N84-34577

TENSILE STRESS
The mechanics of bridging cracks
[BLL-T6144/LRST652/83(9022.048)] 01 p0057 N84-10369
Response of cracks in structural materials to short pulse loads
[AD-A131565] 02 p0231 N84-11519
Failure processes in elastomers at or near a rigid spherical inclusion
[AD-A132060] 03 p0356 N84-12314
Biaxial fatigue, a review of the literature
[FRP-82/17] 04 p0498 N84-13266

Effect of electron irradiation on relaxation of tension in aluminum and aluminum alloys
12 p1784 N84-21639
Effect of initial stresses on the impact behavior of graphite-epoxy laminates 15 p2310 N84-24859
Review of preliminary analysis techniques for tension structures
[AD-A139853] 15 p2350 N84-25110
Concrete behavior under dynamic tensile-compressive load
[AD-A141795] 19 p3036 N84-29255
Identification of strain-softening properties and computational predictions of localized fracture
[AD-A141866] 19 p3036 N84-29258
Improvement of the equipment of very long horizontal tensile test bench
[CETIM-5.510.05] 21 p3424 N84-31724
Raman investigation of the rate of OH uptake in stressed and unstressed optical fibers
[AD-A143142] 21 p3498 N84-32172
Failure analysis of a graphite/epoxy laminate subjected to bolt bearing loads
[NASA-TM-86297] 22 p3544 N84-32436
Some inherently 3-dimensional problems in linear elastic fracture mechanics 23 p3759 N84-33828

TENSILE TESTS
Applied J-integral in HY130 tensile panels and implications for fitness for service assessment
[PB83-240598] 02 p0198 N84-11290
Aircraft transparency testing methodology and evaluation criteria. Part 1: Test methods and information analysis
[AD-A131927] 03 p0331 N84-12158
A simple approach to determination of stiffness characteristics of unidirectional composites
[NASA-TM-77066] 07 p0967 N84-16263
High strain rate characterization of materials
[AD-A134342] 07 p1016 N84-16593
Tensile, comprehensive and sharp properties of a 96 kg/m3 cubic meter Polyurethane foam at low temperatures
[PB84-143643] 11 p1638 N84-20710
Tensile testing apparatus
[NASA-CASE-LAR-13243-1] 11 p1656 N84-20804
Ring tensile test of modified Halthane 88-2
[DE84-005691] 12 p1802 N84-21750
Statistical and vibratory fatigue limit characteristics of aluminum cast alloys 14 p2093 N84-23558
The effect of cooling rate from the gamma-phase on the strain-rate sensitivity of a uranium 2w/o molybdenum alloy
[QUEL-1492/83] 15 p2296 N84-24779
Tensile impact testing of fibre-reinforced composites
15 p2316 N84-24901
Monolithic F-16 uniform thickness stretched acrylic canopy transparency program
[AD-A140645] 17 p2606 N84-26694
Method and apparatus for gripping uniaxial fibrous composite materials
[NASA-CASE-LEW-13758-1] 18 p2806 N84-27829
Tensile strength and recrystallization of the 7010 and 7475 alloys: Low cycle fatigue of the 7010 alloy — aluminum alloys
[REPT-18/5069-M] 18 p2815 N84-27873
Fatigue evaluation of the molded T.A6V alloy isostatically compacted under heat. Summary of test number M9 505600 18 p2816 N84-27876
Ring ductility of irradiated Inconel 706 and Nimonic PE16
[DE84-010397] 20 p3155 N84-30034
Experimental research facility for creep-rupture testing of tantalum alloy T-111
[DE84-012030] 20 p3155 N84-30036
Characterization of common steels. Report of partial test Number M6-645900, Number 4
21 p3369 N84-31376

TENSION
Rational-spline approximation with automatic tension adjustment
[NASA-TP-2366] 23 p3817 N84-34204

TENSOR ANALYSIS
Documentation of the GLAS fourth order general circulation model. Volume 2: Scalar code
[NASA-TM-86064-VOL-2] 14 p2179 N84-24049
Some remarks on the definition of material isotropy
17 p2761 N84-27539
Use of the tensor product for numerical weather prediction by the finite element method, part 2
[AD-A144064] 23 p3802 N84-34108

TENSOR FIELDS
U TENSORS

TENSORS
NT STRESS TENSORS
A general field theory for vortex structure and interaction
[AD-A134146] 07 p1033 N84-16705
Elements of dyadic algebra and its application in electromagnetics
[REPT-S-126] 09 p1304 N84-18527
Effective viscosity of a periodic suspension
[AD-A140483] 16 p2493 N84-25995
A rigid embedding of the closed Friedmann manifold
17 p2757 N84-27502
Analysis linking the tensor structure to the least-squares method
[AD-A142159] 19 p3089 N84-29611
Use of the tensor product for numerical weather prediction by the finite element method, part 1
[AD-A143273] 22 p3625 N84-32970
Uniform asymptotic solution of the problem of diffraction for a linear quadrupole source
[ISSN-0208-5658] 23 p3729 N84-33631
Radiation pressure on atoms: Laser cooling and intense field effects
[AD-A143637] 23 p3754 N84-33793

TERMINAL BALLISTICS
Modified QKLOOK program, change 1
[AD-A131507] 01 p0087 N84-10567
Ballistic impact on carbon fiber reinforced epoxy composites
[FOA-C-20497-F9] 02 p0189 N84-11227
Mechanics of projectile impact against thin plates
[AD-A136494] 12 p1823 N84-21882
A numerical study of shock initiation of composition-b by high-speed impact of small steel projectiles
[AD-A139629] 15 p2303 N84-24821
Characterizing shaped charge by stand-off behavior
[MBB-UA-693-83-O] 16 p2584 N84-26448
Comparison of bullet resistance of new and aged polycarbonate
[AD-P003198] 17 p2592 N84-26611
Order of functioning
[AD-A141851] 19 p3001 N84-29022
The penetration model of Dehn — terminal ballistics
[PML-1984-5] 20 p3199 N84-30316
The design of a quantal response experiment: An empirical approach
[AD-P003843] 24 p3939 N84-34931

TERMINAL CONFIGURED VEHICLE PROGRAM
FINDS: A fault inferring nonlinear detection system. User's guide
[NASA-CR-172199] 02 p0176 N84-11156

TERMINAL FACILITIES
NT SHIP TERMINALS

TERMINAL GUIDANCE
NT LASER GUIDANCE
Conceptual design and simulator implementation of an automatic terminal approach system
[NASA-TM-85667] 07 p0959 N84-16215
Path correction of free flight projectiles by cross firing of subsidiary projectiles
[FOA-C-20468-D3] 07 p0962 N84-16236
Optical data processing for missile guidance
[AD-A136216] 09 p1254 N84-18188
Suboptimal missile evasion through a sensitivity analysis of proportional guidance to target evasion maneuvers
[AD-A136803] 10 p1428 N84-19338
Terminal control for command to line of sight guided missile 21 p3350 N84-31252

TERMINATING
U STOPPING

TERMINOLOGY
Efficiency terms for Stirling-engine systems
[DE83-014670] 02 p0229 N84-11505
Permuted medical subject headings, 1984
[PB83-234781] 03 p0460 N84-13027
Medical subject headings, tree structures, 1984
[PB83-223164] 03 p0460 N84-13028
Medical Subject Headings, Annotated Alphabetic List, 1984
[PB83-223156] 03 p0460 N84-13029
Medical subject headings, tree annotations, 1984. Technical notes, Mediars indexing instructions
[PB84-120047] 09 p1405 N84-19181
Typographical terminology
[DE84-001981] 10 p1593 N84-20441
Glossary of Software Engineering Laboratory terms
[NASA-TM-85606] 13 p2026 N84-23135

TERNARY ALLOYS
NT ASTROLOY (TRADEMARK)
Surface and interfacial properties of Ga(0.47) In(0.53) As alloys
[AD-A131925] 03 p0451 N84-12970
Computer-based methods for thermodynamic analysis of materials processing
[AD-A136085] 09 p1397 N84-19123
The effect of cold work on martensitic transformations in CU-ZN-AL shape memory alloys
[AD-A139975] 15 p2297 N84-24789
Influences affecting separation in monotectic alloys under microgravity 17 p2612 N84-26723
Fundamental alloy studies
[DE84-013941] 22 p3555 N84-32513

TERNARY SYSTEMS
Study of phase diagrams of ternary semiconductors
[AD-A133556] 06 p0923 N84-16000
Study of intermetallic compounds in ternary systems Al-Ba-Nd and Al-Ba-Yb
[BLL-M-35387-(5828.4)] 06 p1129 N84-17343
Thermal conductivity of ternary and quaternary III-V compounds
[AD-A135336] 06 p1235 N84-18070
Characterization of high temperature electrically conducting oxides
[DE84-002687] 06 p1236 N84-18076
Neutron diffraction studies of some rare earth-transition metal deuterides
[AD-A140757] 17 p2764 N84-27557
On the structure of the uranium-niobium-chromium-system
[BLL-TRANS-1104-(7291.7965)]
19 p2991 N84-28954
Preparation of high purity Ga(X)In(1-x) by the VPE-hydride method with a gallium-indium alloy source
[AD-A143275] 22 p3663 N84-33218
Impurity and defect characterization in epitaxial GaAs InP and the ternary and quaternary compound semiconductors
[AD-A143551] 22 p3664 N84-33225
Studies of structural properties and their relationship to critical parameters in superconducting materials
[AD-A143556] 22 p3664 N84-33227

TERNARY SYSTEMS (DIGITAL)
U DIGITAL SYSTEMS

TERRACES (LANDFORMS)
NT BUTTES
NT COLORADO PLATEAU (US)
NT PIEDMONTS
NT PLATEAUS

TERRADYNAMICS
Experiment to measure microkinematic processes on the surface of the Earth 02 p0233 N84-11529
Soviet investigations of Earth's gravity field
11 p1670 N84-20897

TERRAIN
FEED (Field Exploitation of Elevation Data) evaluation
[AD-A131318] 02 p0277 N84-11812
Calculation of ground wave attenuation over irregular, inhomogeneous, layered media using PROGRAM WAGNER 03 p0364 N84-12369
Inventoring and monitoring of landscape as a natural and cultural resource 03 p0397 N84-12594
Measuring landscape information content and distribution on a SAR-580 image
03 p0397 N84-12596
Reflection and identification studies applied to terrain imaging radar
[AD-A132401] 04 p0520 N84-13419
SRL tethersonde and echosonde data, Anderson Creek Valley, California
[DE84-001680] 04 p0584 N84-13715
A galerkin-finite element technique for small-scale atmospheric flows and transport over general terrain
[AD-A132735] 05 p0736 N84-14832
The future in terrain elevation data processing at the Defense Mapping Agency
[AD-A133483] 06 p0886 N84-15641
Radar and infrared remote sensing of terrain, water resources, arctic sea ice, and agriculture
06 p0888 N84-15651
Development of generic mobility-terrain data bases: Investigation of critical soil parameters
[AD-A133595] 06 p0878 N84-15715
Application of a feature selection technique to samples of high resolution synthetic aperture radar imagery
[AD-A135008] 06 p1143 N84-17436
Field strength predictions using a computer and a terrain data base — terrestrial mobile radio systems
10 p1476 N84-19643
An interpolation and compaction technique for gridded data
[AD-A137107] 10 p1569 N84-20276
The transition from an Archean granite-greenstone terrain into a charnockite terrain in southern India
11 p1678 N84-20952
Structural variation of proterozoic dikes in central Superior Province: A possible reflection of post-Archean shield deformation 11 p1678 N84-20954
The greenstone belts of Zimbabwe
11 p1681 N84-20968
Registration of TM data to digital elevation models
13 p2004 N84-22999
WNDCOM: Estimating surface winds in mountainous terrain
[PB84-157700] 13 p2018 N84-23083
Curvilinear ground on Mars: The search for terrestrial analogs 13 p2085 N84-23508

Inversion of topography in Martian highlands terrains
13 p2066 N84-23512
Representing and acquiring geographic knowledge
[AD-A139309] 14 p2169 N84-23994
A radio interference model for western Europe
15 p2325 N84-24983
Mathematical aspects of digital terrain information. A progress report from ISPRS Working Group III:3
15 p2358 N84-25148
Design of interactive graphics for Digital Elevation Model (DEM) sampling 15 p2358 N84-25149
The question of accuracy in the transition from analogue to analytic photogrammetry 15 p2359 N84-25153
Psychological research on advanced terrain representation: Formatting the visual material
[AD-A139782] 15 p2382 N84-25288
Terrain travel simulation: Data and application
[AD-P003359] 18 p2912 N84-28472
Multiprocessor Z-buffer architecture for high-speed, high complexity computer image generation
[AD-A141083] 19 p3074 N84-29507
Overground Excess Sound Attenuation (ESA). Volume 2: Analysis of data for flat grassy terrain conditions
[AD-A142420] 20 p3291 N84-30892
Experimental and model transport and diffusion studies in complex terrain with emphasis on tracer studies
[DE84-013076] 22 p3626 N84-32975
Software support for a video disc based terrain map display system
[AD-A143700] 23 p3834 N84-34324
On Mars 24 p3991 N84-35259

TERRAIN ANALYSIS
Development of a sweep-frequency electromagnetic exploration method for three-dimensional terrain analysis
[AD-A129607] 01 p0064 N84-10422
Terrain effects in resistivity and magnetotelluric surveys
[DE83-014084] 02 p0240 N84-11575
Observations and classifications with a 35/94 GHz radiometer of terrain near Motala, Sweden, July 1982
[FOA-C-30325-E1,E3] 03 p0402 N84-12630
Backscattering from inhomogeneous media with irregular boundaries
[AD-A134500] 07 p0993 N84-16440
EPA (Environmental Protection Agency) model development for stable plume impingement on elevated terrain obstacles
[PB84-130491] 10 p1533 N84-20038
Physical modeling of EM propagation over nonhomogeneous terrain
[DE84-000178] 11 p1644 N84-20752
Terrain variables improve modeling of Richardson numbers less than unity in the lower atmosphere
[AD-A137926] 11 p1671 N84-20906
Determination of the sources of radar scattering
12 p1832 N84-21941
FEED (Field exploitation of Elevation Data) software documentation
[AD-A137977] 12 p1879 N84-22246
Venus banded terrain: Evaluation of tectonic models for the origin of banding 13 p2077 N84-23458
Geology of Maxwell Montes, Venus
13 p2077 N84-23460
Venus: Global distribution of Pioneer-Venus radar roughness and reflectivity and global correlation of altimetry, roughness and reflectivity observations
13 p2077 N84-23461
Mercury: New identification of ancient multi-ring basins and implications for geologic evolution
13 p2077 N84-23483
Radar backscatter modelling
13 p2066 N84-23525
Pinacate-Gran Desierto Region, Mexico: SIR-A data analysis 13 p2068 N84-23526
Radar-visible wind streaks in the Altiplano of Bolivia
13 p2066 N84-23527
The case for aeolian control of meter-scale surface texture on Mars 13 p2068 N84-23528
Hypsometric studies of Mars.
13 p2069 N84-23530
Transmission loss calculations for systems with antennas close to the ground using a digital data base
[LFD-218] 15 p2318 N84-24914
The crustal tectonics and history of Europa: A structural, morphological, and comparative analysis
15 p2426 N84-25568
Spectral analysis of groove spacing on Ganymede
15 p2426 N84-25570
Spatial distribution of craters on the Moon and Callisto
15 p2426 N84-25574
Registration of a LANDSAT image to DTM (Digital Terrain Matrix): An error analysis
[AD-A141766] 19 p3041 N84-29297
Terrain analysis procedural guide for built-up areas (report no. 13 in the ETL (Engineer Topographic Laboratories) series on guides for Army terrain analysts)
[AD-A142918] 21 p3431 N84-31788

TERRESTRIAL DUST BELT
Earth's dust envelop 19 p2976 N84-28664

TERRESTRIAL MAGNETISM
U GEOMAGNETISM

TERRESTRIAL PLANETS
NT EARTH (PLANET)
NT MARS (PLANET)
NT MERCURY (PLANET)
NT VENUS (PLANET)

TERRESTRIAL RADIATION
Radiation protection for manned space activities
[NASA-CR-173202] 07 p1047 N84-16791
Exact solution for emission from surface elements of a planet — to spaceborne telescopes
10 p1447 N84-19453
Sampling problems of satellite measurements of radiation budget parameters 10 p1534 N84-20045
Angular corrections of satellite derived measurements of radiances 10 p1534 N84-20046
Error analysis of satellite derived radiation flux densities 10 p1534 N84-20047
Radiation budget parameters from Meteosat-2 data
10 p1534 N84-20049
Fundamental approaches for determining the radiation budget (and corresponding activities at Meteorologisches Institut, Munich (MIM) and Institut fuer Physik der Atmosphaere (IPA)) 10 p1535 N84-20053
The shortwave radiation budget depending on the optical parameters of the atmosphere 10 p1535 N84-20054
Computing the radiation pressure forces by adapting thermal design verification softwares — large space structures 12 p1780 N84-21613
Nimbus-7 ERB (Earth Radiation Budget) Sub-Target Radience Tape (STRT) data base
[PB84-149921] 14 p2177 N84-24039
Report on measurements of terrestrial radiation in the Schwandorf area and the radiological load of the river Naab
[GSF-A-6/83] 16 p2520 N84-26180
Applications of satellite observations to the radiation budget, fluxes and the general circulation
[PB83-256818] 17 p2735 N84-27383
The Earth's radiation belts
[AD-A142673] 20 p3241 N84-30574
Science support for the Earth radiation budget sensor on the Nimbus-7 spacecraft
[NASA-CR-175251] 22 p3622 N84-32948
Space simulation testing of the Earth Radiation Budget Satellite (ERBS) 24 p3861 N84-34471

TEST BEDS
U TEST EQUIPMENT

TEST CHAMBERS
NT ANECHOIC CHAMBERS
NT HYPERBARIC CHAMBERS
NT PRESSURE CHAMBERS
NT VACUUM CHAMBERS
The design and operation of systems for inhalation exposure of animals
[DE83-015388] 01 p0112 N84-10727
Exposure chamber for studies of pollutant gases and aerosols in human subjects: Design considerations
[DE84-001135] 06 p0890 N84-15785
Centralized monitoring and control of environmental chambers by digital computer
[AD-A138278] 12 p1773 N84-21563
Aerosol chamber of Atmospheric Optics Institute
18 p2864 N84-28183
Explosion parameters of ferroalloy dusts
[BLL-M-35571-(5828.4)] 20 p3165 N84-30102

TEST EQUIPMENT
Technology assessment: 1963 forecast of future test technology requirements
[AD-A132421] 04 p0623 N84-14107
A torsion testing machine for measurement of shear strength of foam
[AD-A133027] 05 p0693 N84-14552
General Purpose Electronic Test Equipment (GPETE) acquisition considerations for automated calibration
[AD-A133665] 05 p0718 N84-14709
The behavior of a slag base pavement structure at P39/1, Ersamia under heavy vehicle simulator loading
[RP/5/82] 11 p1639 N84-20716
Ultrasonic angle beam standard reflector
[NASA-CASE-LAR-13153-1] 11 p1728 N84-21274
Evaluation of instrument landing system DDM (Difference in Depth of Modulation) calibration accuracies
[AD-A138301] 12 p1768 N84-21533
Dynamic assessment of B-52B-008 carrier aircraft for the revised Space Shuttle solid rocket booster decelerator subsystem drop test vehicle
[NASA-CR-170989] 12 p1779 N84-21606
Description of the ACCESS data acquisition system
[DE84-005758] 12 p1919 N84-22506
Operational and Performance Measurement on Engines in Sea Level Test Facilities
[AGARD-LS-132] 16 p2452 N84-25723
Operation and performance measurement on engines in sea-level test facilities: Introduction and general survey 16 p2452 N84-25724
Aero/thermodynamic and acoustic considerations in the design of test-beds for turbojets and turbofans
16 p2452 N84-25725
Development testing: Use of sea level test beds and rigs 16 p2453 N84-25726
Performance derivation of turbojets and turbofans from tests in sea-level test cells 16 p2453 N84-25728
Testing of turboshaft engines
16 p2453 N84-25729
Evaluation of material of thermal response
[DGT-23.190A] 16 p2474 N84-26856
Construction of a test bench for closed die forging
[CETIM-5.580.50] 21 p3376 N84-31425
The SCEPTRE facility: Improved simulation of the space environment through the application of advanced technology 24 p3862 N84-34474

TEST FACILITIES
NT ANECHOIC CHAMBERS
NT BLOWDOWN WIND TUNNELS
NT CRYOGENIC WIND TUNNELS
NT ENGINE TESTING LABORATORIES
NT ENVIRONMENTAL LABORATORIES
NT HYDRAULIC TEST TUNNELS
NT HYPERSONIC WIND TUNNELS
NT LOW DENSITY WIND TUNNELS
NT LOW SPEED WIND TUNNELS
NT MISSILE RANGES
NT SHOCK TUNNELS
NT SLOTTED WIND TUNNELS
NT SUBSONIC WIND TUNNELS
NT SUPERSONIC WIND TUNNELS
NT TEST RANGES
NT TEST STANDS
NT TRANSONIC WIND TUNNELS
NT WIND TUNNELS
Joint operating procedure for interrange scheduling
[AD-A130680] 01 p0017 N84-10111
Development of an engineering-scale nuclear test of a solid-breeder fusion-blanket concept
[DE83-016861] 01 p0151 N84-10992
Old explosives facilities need love (safety analyses) too
[DE83-014447] 02 p0205 N84-11334
Feasibility tests of pipeline pigs for cryogenic pipelines
[DE83-015494] 02 p0206 N84-11343
IPACS guidance navigation and control system considerations and test activities
03 p0346 N84-12245
Low gravity experiment for studying a rotating fluid having a free surface
[NASA-CR-170923] 03 p0371 N84-12413
Conceptual design of the high-flux VTA-2 test assembly for FMIT
[DE83-017022] 03 p0446 N84-12935
An experimental investigation of soot behavior in a gas turbine combustor
[AD-A132210] 04 p0487 N84-13202
A proposed RF-technology R/D plan for the United States
[DE84-000643] 04 p0522 N84-13434
Capabilities of the NRCC/NAE flight impact simulator facility
[AD-A130849] 06 p0784 N84-15136
Liquid metal experimental facilities — fast breeder reactors 06 p0842 N84-15492
Electromagnetic propulsion test facility
[NASA-TM-83568] 07 p0961 N84-16229
Digital transponder 11/14 GHz, 120 Mbit/sec. Phase 2: Transponder test equipment and system measurements
[BMFT-FB-W-83-013] 07 p0994 N84-16448
The AMTE/OUEL underwater jet noise rig
[OUEL-1491/83] 07 p1070 N84-16953
Defense Data Network System Test Facility (STF) recommendations
[AD-A134166] 07 p1084 N84-17048
Project DELUGE: The development of a Holloman high speed test track heavy rainfield
[AD-A134810] 08 p1108 N84-17205
Development of power system measurements
[PB84-109891] 08 p1153 N84-17509
The Large Space Simulator (LSS) at ESA/ESTEC (a summary of the main characteristics)
10 p1448 N84-19458
Regional acid deposition: Design and management plan for a comprehensive modeling system
[PB84-116003] 10 p1532 N84-20037

Preliminary investigations of 360 kJ plasma focus device, part 2 10 p1561 N84-20359
Operational evaluation of a new 435-mHz radiation facility
[AD-A138474] 12 p1773 N84-21564
Experimental spherical near field antenna test facility, phase 3. Volume 2: Study of an offset reflector antenna with a sagging feed support
[S-179-01-VOL-2] 12 p1809 N84-21794
Fault detection and protection system for neutral beam generators on the Neutral Beam Engineering Test Facility (NBETF)
[DE84-006834] 12 p1903 N84-22394
Electro-Magnetic Compatability Test Facility, Bristol
[BAE-BT-10658] 13 p1935 N84-22586
Combustion performance of a vitiated air heater for a freejet test facility 13 p1952 N84-22691
Flow measurement facilities at NEL on 1 August 1983
[NEL-666] 13 p1991 N84-22924
Testing and evaluation of EV-1300 lead-acid modules for the hybrid vehicle application
[DE84-006718] 14 p2249 N84-24510
Description of an electromagnetic compatibility laboratory
[SNIAS-832-422-109] 15 p2321 N84-24933
Operational and Performance Measurement on Engines in Sea Level Test Facilities
[AGARD-LS-132] 16 p2452 N84-25723
Operation and performance measurement on engines in sea-level test facilities: Introduction and general survey 16 p2452 N84-25724
Aero/thermodynamic and acoustic considerations in the design of test-beds for turbojets and turbofans 16 p2452 N84-25725
Development testing: Use of sea level test beds and rigs 16 p2453 N84-25726
Instrumentation techniques in sea level test facilities 16 p2453 N84-25727
Performance derivation of turbojets and turbofans from tests in sea-level test cells 16 p2453 N84-25728
Testing of turboshaft engines 16 p2453 N84-25729
Data acquisition and processing in sea-level test beds 16 p2453 N84-25730
A laboratory approach to technology transfer: The passive solar cooling system concept example 16 p2516 N84-26152
Initial results from testing passive solar components in the NBS calorimeter 16 p2517 N84-26160
Development of an X-ray facility for radiation dosimetry studies
[MRL-R-910] 16 p2555 N84-26391
Progressive fracture of fiber composites
[NASA-TM-83701] 18 p2809 N84-27831
Facility requirements for helicopter noise research 19 p3097 N84-29672
Operations manual for the data acquisition and reduction system, Area III Actuator Test Facility
[DE84-006906] 19 p3116 N84-29803
A survey of biodynamic test devices and methods
[AD-A142467] 20 p3133 N84-29894
Flow Induced Vibration Program at Argonne National Laboratory
[DE84-009233] 20 p3187 N84-30249
European Space Tribology Laboratory: Facilities, services, capabilities
[ESA-BR-12] 20 p3199 N84-30317
MIL-STD-1553B validation testing
[AD-P003544] 21 p3333 N84-31148
Test rig for measuring hydraulic equipment noise
[CETIM-41-H-337] 21 p3345 N84-31224
The need for biaxial fatigue testing at A.R.L.
[AD-A143203] 22 p3611 N84-32878
Compendium of US incompressible flow facilities
[AD-A143650] 23 p3696 N84-33424
Electrochemically deposited cadmium electrode for sealed Ni-Cd cells 23 p3737 N84-33683
Real time flight test conduction and monitoring 24 p3850 N84-34414
Development of a thermal environment simulator for large test articles in a vacuum 24 p3861 N84-34469
The SCEPTRE facility: Improved simulation of the space environment through the application of advanced technology 24 p3862 N84-34474
Flight termination receiver catalog
[AD-A144155] 24 p3894 N84-34657
The Lincoln Laboratory-Aerospace Medical Research Laboratory digital speech test facility
[AD-A144303] 24 p3894 N84-34662

TEST FIRING
NT STATIC FIRING
Real-time simulation in a terrain model: Mathematical description
[FOA-C-56041-H2] 15 p2390 N84-25343

Use of self assessment in estimating levels of skill retention
[AD-P003345] 18 p2911 N84-28465

TEST PATTERN GENERATORS
How to check line channel of IKM-15 digital pulse-code-modulation transmission system 17 p2633 N84-26842

TEST RANGES
NT MISSILE RANGES
Universal documentation system handbook - an introduction to the universal documentation system
[AD-A140140] 16 p2455 N84-25742

TEST STANDS
Windpowered generators. Test field Pellworm. The test of the Aeroman system
[GKSS-83-E-15] 02 p0243 N84-11589
The hydraulic multiaxes vibrator: Its capabilities to simulate real mechanical environments and to verify aerospace structures 03 p0339 N84-12198
Practical experience during installation of the large multiaxes vibration test facility SAMSON 03 p0339 N84-12199
The development of a multi-axis hydraulic vibration test facility at the National Engineering Laboratory, Scotland 03 p0339 N84-12200
Concept of a safety system for a servohydraulic test facility 03 p0339 N84-12202
Mathematical modeling and simulation of multiaxis hydraulic test facilities 03 p0339 N84-12204
Simulation of mechanical cross coupling of multiaxes vibration facilities 03 p0340 N84-12207
White Horse program review, FY 82
[DE84-002290] 05 p0745 N84-14896
Apparatus for certification of angular-displacement transducers 13 p1973 N84-22806
Flow pattern in an indoor rocket test stand during static firing of solid propellant rocket motors
[PML-1983-40] 17 p2614 N84-26731
Construction and evaluation of a flow test stand
[PB84-201581] 22 p3615 N84-32906

TEST VEHICLES
An experimental study of an ultra-mobile vehicle for off-road transportation
[AD-A131449] 02 p0303 N84-11991
Turbulent diffusion behind vehicles: Experiments and verification of roadway models
[PB84-194273] 21 p3326 N84-31101
The Electric Vehicle Project
[DE84-011788] 21 p3522 N84-32309
Longwall shearer tracking system
[NASA-CASE-MFS-25717-1] 23 p3749 N84-33768

TESTERS
U TEST EQUIPMENT

TESTING
U TESTS

TESTING MACHINES
U TEST EQUIPMENT

TESTING TIME
Oxidation characteristics of molybdenum-zirconium oxide cermets
[NASA-TM-77622] 23 p3723 N84-33594

TESTS
Analog fault diagnosis of large-scale electronic circuits
[AD-A133491] 06 p0830 N84-15400
Primality testing 08 p1224 N84-17993

TETHERED SATELLITES
Electrodynamic tether experiments in the ionosphere 05 p0642 N84-14222
Investigation of electrodynamic stabilization and control of long orbiting tethers
[NASA-CR-170972] 08 p1115 N84-17251
Electrodynamic interactions between a tethered satellite system and the ionosphere 08 p1119 N84-17279
Thermal control of tethered satellite in a very low altitude aerodynamic mission 10 p1446 N84-19444
Tethers in space: Birth and growth of a new avenue to space utilization
[NASA-TM-82571] 12 p1779 N84-21607
Dynamics analysis of electrodynamic satellite tethers. Equations of motion and numerical solution algorithms for the tether
[NASA-CR-171777] 13 p1937 N84-22598
Investigation of dynamic noise affecting geodynamics information in a tethered subsatellite
[NASA-CR-173556] 15 p2319 N84-24923
Tension waves in tethered satellite cables
[NASA-TM-85799] 18 p2807 N84-27820
Electromagnetic radiation from a moving conducting tether — tethered satellites
[IFSI-84-2] 18 p2831 N84-27973
On dynamical formulation of a tethered satellite system with mass transport
[AD-A142312] 19 p2960 N84-28888

TETHERING
Transmitted thrust on a large dual rail rocket sled system
[AD-A137151] 11 p1621 N84-20608
Dynamics analysis of electrodynamic satellite tethers. Equations of motion and numerical solution algorithms for the tether
[NASA-CR-171777] 13 p1937 N84-22598

TETHERLINES
Electrodynamic tether experiments in the ionosphere 05 p0642 N84-14222
Dynamics analysis of electrodynamic satellite tethers. Equations of motion and numerical solution algorithms for the tether
[NASA-CR-171777] 13 p1937 N84-22598

TETHYS
A geographic comparison of selected large-scale planetary surface features
[NASA-TM-86147] 22 p3679 N84-33320

TETRACHLOROMETHANE
U CARBON TETRACHLORIDE

TETRAETHYL ORTHOSILICATE
Sol-gel transition in simple silicates, 2
[DE83-013975] 01 p0051 N84-10329

TETRAGONS
NT RECTANGLES
NT SQUARES (MATHEMATICS)

TETRAHEDRONS
Hinge specification for a square-faceted tetrahedral truss
[NASA-CR-172272] 07 p1015 N84-16586
Gaussian quadrature formulae for tetrahedronal regions
[ISD-307] 15 p2396 N84-25377

TETRAHYDROFURAN
Long cycle life secondary lithium cells utilizing tetrahydrofuran
[AD-A140762] 17 p2723 N84-27331

TETRANITROTETRAZACYCLOOCTANE
U HMX

TETRAZOLES
Mercuric 5-nitrotetrazole, a possible replacement for lead azide in Australian ordnance. Part 1: An assessment of preparation methods
[MRL-R-901] 05 p0661 N84-14344
A thermal stability test for primary explosive stab sensitizers: Study of the thermal and hydrolytic stability of 1-picryl-5-nitrotetrazole
[MRL-R-918] 16 p2473 N84-25853

TEXAS
Poststorm reconnaissance of Tropical Storm Chris
[AD-A131948] 03 p0411 N84-12688
Chemical composition of acid precipitation in Texas, volume 1
[DE84-900411] 07 p1027 N84-16659
Water resources data Texas: Water year, 1982. Volume 1: Arkansas River Basin, Red River Basin, Sabine River Basin, Neches River Basin, Trinity River Basin and intervening coastal basins
[PB84-133271] 10 p1527 N84-20006
Major salt beds of the Palo Duro and Dalhart Basins, Texas
[DE84-005255] 12 p1837 N84-21973
Climatic atlas of Texas
[PB84-162908] 14 p2182 N84-24074
The development of a geopressured energy management information and analysis system in support of research planning: Third year
[PB84-174481] 16 p2511 N84-26116
Lineaments of Texas: Possible surface expressions of deep-seated phenomena
[DE84-010627] 21 p3445 N84-31858
Investigation of several aspects of LANDSAT 4/5 data quality — California, Texas, Arkansas, Alabama, and Pacific Ocean
[E84-10024] 22 p3613 N84-32892
Analysis of Laramide and younger deformation of a segment of the Big Bend region, Texas 23 p3794 N84-34060
Geomorphology and hydrogeology of the Edwards Plateau karst, central Texas 23 p3796 N84-34071

TEXTBOOKS
Automated Instructional Media Selection (AIMS)
[AD-A135749] 10 p1552 N84-20166
Educational aids in aircraft combat survivability
[AD-A139090] 13 p1931 N84-22556
Landmarks of progress 13 p2065 N84-23397

TEXTILES
NT COTTON FIBERS
Temperature-resistant elements for reverse osmosis treatment of hot process waste
[DE84-005190] 10 p1456 N84-19507
Preliminary results of the effects of sewing, packing and parachute deployment on material strength
[DE84-006464] 13 p1927 N84-22541

Fuel fire tests of polytetra-fluoroethylene anti-exposure suits
[AD-A140038] 15 p2385 N84-25303
Survey and analysis of materials research and development at selected federal laboratories
[DE84-008904] 20 p3145 N84-29967
Textile ballistic performance (data base)
[AD-A143249] 22 p3560 N84-32541

TEXTS
Computer aided layout of procedure information for training and job aiding
[AD-A139347] 14 p2205 N84-24236
Understanding picture-text instructions
[AD-A139746] 15 p2382 N84-25287
Graphic design of program text
[DE84-008162] 15 p2393 N84-25360
Discourse structures for text generation
[AD-A140278] 16 p2546 N84-26342
Page indexing for textual information retrieval systems
21 p3517 N84-32277
Text processing in the writing of contracts
[SNIAS-841-422-102] 21 p3519 N84-32297

TEXTURES
A study of texture analysis algorithms
[AD-A131498] 01 p0123 N84-10602
FASTMENU: A set of FORTRAN programs for analyzing surface texture
[PB83-240838] 02 p0276 N84-11804
The influence of sensor and flight parameters on texture in radar images 03 p0394 N84-12575
The measurement of surface texture and its correlation with function 06 p0614 N84-15299
Spatial reasoning to determine stream network from LANDSAT imagery
[E84-10063] 06 p0865 N84-15632
Optical flow and texture variables useful in simulating self motion (2)
[AD-A133597] 06 p0889 N84-15779
Crop identification of SAR data using digital textural analysis 07 p0988 N84-16404
An approach to rotation invariant texture classification and some experimental results
[AD-A134197] 07 p1061 N84-16881
Development of the texture and plastic anisotropy in steels upon hot rolling, transformation and cold rolling
[BMFT-FB-T-83-219] 10 p1463 N84-19559
A parallel method for natural texture synthesis
[AD-A139869] 15 p2396 N84-25385
Synthesis of natural textures on 3-d surfaces
[AD-A139869] 15 p2407 N84-25452
Applications of texture analysis for rock types discrimination, phase 2
[AD-A142288] 19 p3042 N84-29303
Thermomechanical processing and texture development in Ni-Cr-Mo and Mn-Mo-B armor steels
[AD-A142352] 20 p3153 N84-30020
Properties of bubble domains in cholesteric-nematic mixtures 21 p3477 N84-32039
Elastic properties of textured sheets of two-phase titanium alloys 23 p3708 N84-33505
Texture effect on anisotropy of electric and magnetic properties of titanium alpha-alloys
23 p3708 N84-33506
Development of texture descriptions for images
24 p3914 N84-34785

TF-41 ENGINE
Predicted TF41 performance with the AGARD research fuel 15 p2293 N84-24763

TFX AIRCRAFT
U F-111 AIRCRAFT

THAWING
U MELTING

THEMATIC MAPPING
LANDSAT 4 investigations of thematic mapper and multispectral scanner applications
[E84-10017] 02 p0237 N84-11554
Estimating temperature and moisture regimes in forest and rangeland soils using thermal remote sensing
[PB83-237453] 02 p0241 N84-11577
Earth Resources Laboratory research and technology
[E84-10033] 03 p0395 N84-12576
Remote Sensing Applications for Environmental Studies — conferences
[ESA-SP-188] 03 p0395 N84-12579
Use of remote sensing methods for the ecological mapping project of the European community
03 p0395 N84-12580
SPOT potential applications: An overview of the results of the simulation campaigns 03 p0396 N84-12587
Major water conservation and reclamation projects in the Jianghan Plain and surroundings, Hubei Province, China — Landsat imagery 03 p0397 N84-12593
Inventorying and monitoring of landscape as a natural and cultural resource 03 p0397 N84-12594
SAR 580: Images for agricultural and forest survey. First results in middle Belgium 03 p0397 N84-12595
Remote sensing and topographic maps — belgium
03 p0398 N84-12600
The use of airborne thematic mapper simulation data for the estimation and mapping of Green Leaf Area Index (GLAI) 03 p0398 N84-12602
Application of remote sensing for studies, mapping and forecasting of eddies on the Norwegian continental shelf
03 p0399 N84-12605
Mapping land use in Catalonia (Spain) — using LANDSAT imagery 03 p0400 N84-12613
Inventory of Flemish forests using medium-scale Color Infrared (CIR) photography and CIR orthophotoplans as base for a forest management data bank
03 p0400 N84-12614
Actilities report on the projet DESBOD — geographical data acquisition
[REPT-5] 03 p0460 N84-13025
The United Kingdom SATMaP program
[E84-10002] 04 p0551 N84-13627
Application of remote sensing to hydrological problems and floods
[E84-10046] 04 p0553 N84-13639
Evaluation of radiometric and geometric characteristics of LANDSAT-D imaging system
[E84-10050] 04 p0553 N84-13643
Thematic mapper radiomtric variability on ostensibly uniform agricultural scenes
[E84-10035] 06 p0864 N84-15626
Landsat 4 TM-data: Examples of resolution capacity
[FOA-C-30329-E1] 06 p0867 N84-15644
Reports on cartography and geodesy, series 1: Original reports, no. 69
[ISSN-0469-4236] 07 p1018 N84-16602
BIZEPS and raster graphics — plotting package
07 p1018 N84-16603
Software concept for an interactive graphics system for large scale topographic cartography
07 p1019 N84-16614
Study of spectral/radiometric characteristics of the thematic mapper for land use applications
[E84-10058] 07 p1020 N84-16615
Urban land use of the Sao Paulo metropolitan area by automatic analysis of LANDSAT data
[E84-10069] 07 p1020 N84-16616
LANDSAT 4 investigation of thematic mapper and multispectral scanner applications
[E84-10075] 07 p1021 N84-16622
RSAW: A computer program for processing and presentation of geographic information
[FOA-C-20473-D6(F8)] 07 p1085 N84-17057
Typical SPOT data and products: Potential applications 08 p1175 N84-17653
Typical remote sensing data products
08 p1175 N84-17656
Land use inventory and statistical sampling in agriculture — spaceborne remote sensing
08 p1176 N84-17658
Investigation of forestry resources and other remote sensing data. 1: LANDSAT. 2: Remote sensing of volcanic emissions
[E84-10092] 10 p1522 N84-19963
Description and status report on TM processing system 10 p1523 N84-19978
Spectroradiometric calibration of the thematic mapper and multispectral scanner system
[NASA-CR-175405] 11 p1671 N84-20905
An evaluation of thematic mapper simulator data for the geobotanical discrimination of rock types in Southwest Oregon
[NASA-CR-166569] 12 p1828 N84-21915
Analysis of the quality of image data acquired by the LANDSAT-4 thematic mapper and multispectral scanners — Plumas County, California
[E84-10106] 12 p1829 N84-21924
LANDSAT-D investigations in snow hydrology
[E84-10094] 13 p2003 N84-22997
Atmospheric model development
13 p2004 N84-22998
The Pennsylvania defoliation application pilot test
[E84-10111] 13 p2004 N84-23004
Evaluation of spatial, radiometric and spectral Thematic Mapper performance for coastal studies
[E84-10118] 14 p2167 N84-23978
Evaluation of the effects of the seasonal variation of solar elevation angle and azimuth on the processes of digital filtering and thematic classification of relief units
[E84-10121] 14 p2167 N84-23980
Investigation of several aspects of LANDSAT-4 data quality — Sacramento, San Francisco, and NE Arkansas
[E84-10122] 14 p2167 N84-23981
Aerial photography for ecological site mapping
14 p2169 N84-23990
Potential utility of future satellite magnetic field data
[NASA-CR-175230] 15 p2279 N84-24691
Study on spectral/radiometric characteristics of the Thematic Mapper for land use applications
[E84-10130] 15 p2357 N84-25140
Remote sensing of floe size distribution and surface topography
[E84-10132] 15 p2357 N84-25141
Vegetation, land-use and seasonal albedo data sets: Documentation of archived data tape
[E84-10133] 15 p2357 N84-25142
Advances in planetary geology
[NASA-TM-86247] 15 p2426 N84-25567
The crustal tectonics and history of Europa: A structural, morphological, and comparative analysis
15 p2426 N84-25568
Geologic observations of the Martian highland boundary in the Mamers Valles region 15 p2426 N84-25572
LANDSAT-4 image data quality analysis
[E84-10134] 16 p2506 N84-26082
Analysis of the quality of image data acquired by the LANDSAT-4 Thematic Mapper and Multispectral Scanners
[E84-10137] 16 p2506 N84-26085
Comparative assessment of LANDSAT-D MSS and TM data quality for mapping applications in the Southeast
[E84-10138] 16 p2506 N84-26086
Sampling system for wheat (Triticum aestivum L) area estimation using digital LANDSAT MSS data and aerial photographs — Brazil
[E84-10139] 16 p2506 N84-26087
Forest inventory using multistage sampling with probability proportional to size — Brazil
[E84-10144] 16 p2507 N84-26092
Field data observed during the geological excursion in the west-central region of the Sul-Riograndе Shield
[E84-10146] 16 p2508 N84-26094
The use of an image registration technique in the urban growth monitoring
[E84-10147] 16 p2508 N84-26095
Evaluation of SIR-A (Shuttle Imaging Radar) images from the Tres Marias region (Minas Gerais State, Brazil) using derived spatial features and registration with MSS-LANDSAT images
[E84-10148] 16 p2508 N84-26096
LANDSAT-D Thematic Mapper image dimensionality reduction and geometric correction accuracy — Walnut Creek Watershed, Texas
[E84-10149] 16 p2508 N84-26097
Understanding and utilization of Thematic Mapper and other remotely sensed data for vegetation monitoring
[E84-10150] 16 p2508 N84-26098
Results of field observations of radio waves in alluvial deposits in Cara state from 1:100.000: Fortaleza, Canirde, Taperuaba, Santa Quiteria, Sobral, and Sao Luiz do Curu
[INPE-3061-NTE/216] 16 p2509 N84-26100
Comparative study of image data produced by satellites with different characteristics
[ESA-CR(P)-1867] 16 p2509 N84-26103
Digital processing of LANDSAT data for the preparation of a land use map of the rural district surrounding Tuebingen to a scale of 1:50000
[ESA-TT-816] 16 p2509 N84-26104
Voyager 1 imaging and IRIS observations of Jovian methane absorption and thermal emission: Implications for cloud structure
[NASA-CR-173567] 16 p2579 N84-26544
LANDSAT 4 investigations of Thematic Mapper and Multispectral Scanner applications
[E84-10152] 17 p2709 N84-27247
Evaluation of spatial, radiometric and spectral Thematic Mapper performance for coastal studies
[E84-10159] 17 p2709 N84-27251
Project SERGE: Brazil referential field data for the SIR-A experiment
[INPE-2973-NTE/210] 17 p2711 N84-27259
Yearbook of the Bureau of Mineral Resources, Geology and Geophysics, Canberra, 1 July 1982 - 30 June 1983
[BMR-83] 19 p3037 N84-29266
National and international geoscience maps
19 p3038 N84-29271
Evaluation of LANDSAT-D Thematic Mapper performance as applied to hydrocarbon exploration
[E84-10154] 19 p3038 N84-29275
LANDSAT-4 Science Investigations Summary, including December 1983 Workshop results, volume 1
[E84-10166] 20 p3205 N84-30359
The LANDSAT-4 program: An overview
20 p3205 N84-30360
Thematic Mapper (TM) instrument description
20 p3205 N84-30363
An overview of LANDSAT-4 and the Thematic Mapper
20 p3206 N84-30364
Thematic Mapper sensor characteristics
20 p3206 N84-30365

Radiometric calibration and processing procedure for reflective bands on LANDSAT-4 protoflight Thematic Mapper 20 p3206 N84-30366
An overview of the Thematic Mapper geometric correction system 20 p3206 N84-30367
LANDSAT-4 radiometric and geometric correction and image enhancement results — San Francisco Bay, California 20 p3206 N84-30370
A preliminary assessment of LANDSAT-4 Thematic Mapper data 20 p3206 N84-30377
LANDSAT-4 Science Investigations Summary, including December 1983 Workshop results, volume 2 [E84-10167] 20 p3208 N84-30380
LANDSAT-4 MSS and TM spectral class comparison and coherent noise analysis — The Des Moines, Iowa area 20 p3208 N84-30381
TM failed detectors data replacement 20 p3208 N84-30382
In-flight absolute radiometric calibration of the Thematic Mapper 20 p3208 N84-30383
LANDSAT-4 Thematic Mapper calibration and atmospheric correction 20 p3209 N84-30384
Calibration of TM data from ground-based measurements 20 p3209 N84-30385
Scan-angle and detector effects in Thematic Mapper radiometry 20 p3209 N84-30386
Thematic Mapper spectral dimensionality and data structure 20 p3209 N84-30387
MTF analysis of LANDSAT-4 Thematic Mapper 20 p3209 N84-30388
Intraband radiometric performance of the LANDSAT-4 Thematic Mapper 20 p3209 N84-30389
Analysis of LANDSAT-4 TM data for lithologic and image mapping purpose 20 p3209 N84-30390
Status of the ESA-Earthnet LANDSAT-4 TM ground processing chain 20 p3210 N84-30391
An analysis LANDSAT-4 Thematic Mapper geometric properties 20 p3210 N84-30392
The use of linear feature detection to investigate Thematic Mapper data performance and processing 20 p3210 N84-30393
Spatial resolution estimation of LANDSAT-4 TM data 20 p3210 N84-30394
An analysis of the high frequency vibrations in early Thematic Mapper scenes 20 p3210 N84-30395
Assessment of Thematic Mapper band-to-band registration by the block correlation method 20 p3210 N84-30396
LANDSAT scene-to-scene registration accuracy assessment 20 p3212 N84-30405
Preliminary geologic/spectral analysis of LANDSAT-4 Thematic Mapper data, Wind River/Bighorn basin area, Wyoming 20 p3213 N84-30413
An initial analysis of LANDSAT-4 Thematic Mapper data for the discrimination of agricultural, forested wetland, and urban land covers 20 p3213 N84-30414
Assessment of computer-based geologic mapping of rock units in the LANDSAT-4 scene of northern Death Valley, California 20 p3214 N84-30416
A concept for the processing and display of Thematic Mapper data 20 p3214 N84-30417
A first evaluation of LANDSAT TM data to monitor suspended sediments in lakes 20 p3215 N84-30425
The effect of spatial, spectral and radiometric factors on classification accuracy using thematic mapper data [NASA-TM-85995] 20 p3227 N84-30510
Radiometric calibration and processing procedure for reflective bands on LANDSAT-4 protoflight Thematic Mapper [E84-10056] 21 p3426 N84-31731
Characterization of the LANDSAT sensors' spatial responses [E84-10171] 21 p3426 N84-31734
LANDSAT 4 band 6 data evaluation [E84-10175] 21 p3427 N84-31737
Habitability of the Earth 21 p3427 N84-31740
NASA pilot land data system 21 p3427 N84-31741
Characterization of radiometric calibration of LANDSAT-4 TM reflective bands [E84-10182] 21 p3429 N84-31753
Introduction to Thematic Mapper investigations. Section 1: Radiometry. Section 2: Geometry [E84-10185] 21 p3429 N84-31756
Terrain analysis procedural guide for built-up areas (report no. 13 in the ETL (Engineer Topographic Laboratories) series on guides for Army terrain analysts) [AD-A142918] 21 p3431 N84-31768
Mapping magnetized geologic structures from space: The effect of orbital and body parameters [E84-10191] 22 p3614 N84-32895
Flight performance of the Spacelab metric camera experiment 23 p3764 N84-33858
The Pilbara district in northwestern Australia: A case study for the geological application of Modular Optoelectronic Multispectral Scanner (MOMS) and LANDSAT data 23 p3765 N84-33867
LANDSAT-4 MSS and Thematic Mapper data quality and information content analysis 23 p3766 N84-33871
The effect of spatial, spectral and radiometric factors on classification accuracy using Thematic Mapper data 23 p3766 N84-33872
Structural description of a LANDSAT Thematic Mapper (TM) scene for improved region-based classification 23 p3766 N84-33873
Changes in TM response of soil scenes due to tillage, residue, and weathering — Landsat Thematic Mapper (TM) 23 p3766 N84-33874
Spectral characterization of biophysical characteristics in a boreal forest: Relationship between Thematic Mapper band reflectance and leaf area index for Aspen 23 p3766 N84-33875
The applicability of improved remote sensing data for lithological and structural mapping 23 p3770 N84-33899
The influence of perturbing water properties in chlorophyll mapping 23 p3780 N84-33970
Investigation of texturing functions. Application to ecographical zoning and to mapping land use in a sloping basin: The Aveyron [CESR-83-1089] 23 p3784 N84-34001

THEODOLITES
New opportunities for old measuring methods by using Automatic Seconds Theodolites (AST) 02 p0234 N84-11533

THEOREM PROVING
A mechanical proof of the turing completeness of pure LISP [AD-A130525] 01 p0121 N84-10785
Proof-checking, theorem proving and program verification [AD-A130638] 01 p0123 N84-10799
Comments on Bing's paper On a Poeteriori Probability, and reply to Professor L. Lorenz [CSIR-TRANS-1658] 01 p0128 N84-10838
A fully automatic proof of an ordered tree insertion function [AD-A130720] 01 p0133 N84-10868
Abstract automath [MATH-CENTRE-TRACTS-160] 08 p1217 N84-17938
Tests for preference [MATH-CENTRE-TRACTS-162] 08 p1217 N84-17939
Three lectures on theorem-proving and program verification 15 p2388 N84-25324
Portable environment for research in automated reasoning [DE84-009212] 15 p2396 N84-25372
A note on a cyclotomic diophantine equation [CTH-MATH-1983-28] 17 p2762 N84-27541
Global existence of classical solutions to the equations of motion for materials with fading memory [AD-A141607] 19 p3085 N84-29584
Bounded tiling, an alternative to satisfiability [CWI-OS-R8405] 19 p3092 N84-29638
Uniqueness of Whittaker models for irreducible objects in Alg(Mp(k)) [MC-ZW-203/83] 19 p3092 N84-29639
Random capacities and their distributions [CTH-MATH-1984-03] 19 p3094 N84-29649
An application of fine potential theory to prove a Phragmen Lindeloef theorem 22 p3635 N84-33043
Rehoeting the theorem prover [AD-A144356] 24 p3946 N84-34987

THEOREMS
NT BAYES THEOREM
NT EXISTENCE THEOREMS
NT FLOQUET THEOREM
NT LAGRANGE SIMILARITY HYPOTHESIS
NT LEBESGUE THEOREM
NT SIMILARITY THEOREM
NT UNIQUENESS THEOREM
Scaling theorems for zero-crossings [AD-A131599] 02 p0281 N84-11839
Kingman's subadditive ergodic theorem [AD-A131795] 03 p0427 N84-12801
The specific solutions of a uniform algebraic differential equation of the second order [ISSN-0066-1953] 04 p0575 N84-13783
On some extensions of a theorem of Hardy and Littlewood 04 p0575 N84-13784
Use of an exact penalty function for optimization of discrete problems [INPE-2769-PRE/342] 04 p0588 N84-13883
A computer science version of Goedel's theorem [AD-A132903] 05 p0730 N84-14790
The 2-stage selection procedures based on tests [AD-A133405] 06 p0904 N84-15871
Design and complexity of VLSI algorithms 08 p1208 N84-17876
A note on equality in Anderson's theorem [AD-A141509] 19 p3084 N84-29577
Fatou theorem for the proper functions of invariant potential operators by a group of Cartan displacements 22 p3635 N84-33037
Deduction in nonhorn databases 22 p3670 N84-33263
Ordered incidence geometry and the geometric foundations of convexity theory [AD-A144286] 24 p3951 N84-35015
The Gain-Spread-Excitation theorem [AD-A144447] 24 p3951 N84-35020

THEORETICAL PHYSICS
NT CHARM (PARTICLE PHYSICS)
NT FLAVOR (PARTICLE PHYSICS)
NT NEWTON THEORY
NT QUANTUM THEORY
Special functions and group theory in theoretical physics [DE83-015642] 02 p0301 N84-11975
Research in theoretical physics [DE83-0166222] 03 p0456 N84-13004
Electromagnetic universes 11 p1757 N84-21468
Quantum solutions and strange solutions in many-body problems [AD-A140436] 16 p2565 N84-26459
Role of theory in space science [NASA-CR-173444] 18 p2798 N84-27757
Passage of strong electromagnetic pulse through semiconductor in external magnetic field 18 p2824 N84-27930
Persistant relaxation of excess charge carriers in epitaxial pure n-GaAs 18 p2824 N84-27931
Theoretical high energy physics research [DE84-009785] 19 p3103 N84-29716
Indiana University Theoretical Particle Physics Group [DE84-010593] 20 p3293 N84-30903
USSR report: Physics and mathematics [JPRS-UPM-84-005] 21 p3484 N84-32081
Applied chromodynamics [DE84-009136] 21 p3495 N84-32152
Theoretical high energy physics [DE84-011854] 21 p3495 N84-32153
Solid state research [AD-A142991] 21 p3504 N84-32204

THEORIES
Towards a formal multi-valued utility theory [AD-P002356] 14 p2193 N84-24147

THERAPY
NT CHEMOTHERAPY
Military Medical Journal, no. 3, 1983 [L-2399] 08 p1199 N84-17817

THERMAL ABSORPTION
Dry chemical development: A model for the extinction of hydrocarbon flames [AD-A137952] 11 p1628 N84-20656

THERMAL AGITATION
U THERMAL ENERGY

THERMAL ANALYSIS
Characterization of the structure and substructure of thermally transformation cycled Cu-Zn-Al shape memory alloys [AD-A132341] 04 p0499 N84-13270
Energy release and transformation of shock-modified zirconia upon annealing to 1550 deg C [DE83-017801] 05 p0755 N84-14954
A thermal analyis approach applied in early stages of a program — satellite design 10 p1442 N84-19421
MANIP and MINIP, new modeling tools for the thermal engineer 10 p1443 N84-19425
ESATAN: A thermal network analysis computer program 10 p1443 N84-19426
Kinetics of the Beta + Delta phase transformation of HMX 13 p1951 N84-22681
Hybrid perturbation/Bubnov-Galerkin technique for nonlinear thermal analysis [NASA-TP-2145] 13 p1988 N84-22907
Development of media for dynamic latent heat storage for the low temperature range. Part 1: Thermal analysis of selected salt hydrate systems [DFVLR-FB-84-03-PT-1] 15 p2382 N84-25170
Status of new aerothermodynamic analysis tool for high-temperature resistant transparencies [AD-P003236] 17 p2598 N84-26649
Parameter studies of gear cooling using an automatic finites element mesh generator [NASA-TM-83721] 18 p2849 N84-28087
An investigation of the transient thermal analysis of spur gears [NASA-TM-83724] 18 p2849 N84-28088

Pressure-dependence of glass transition temperature of elastomeric glasses
[AD-A141485] 19 p2998 N84-28999
Remarks on thermal analyses of thin 4He films in superfluid heat pipe 20 p3169 N84-30121
Holographic investigation of thermal nonequilibrium vapor generation
[DE84-011905] 21 p3408 N84-31607
Thermal analysis of a planetary transmission with spherical roller bearings operating after complete loss of oil
[NASA-TP-2367] 22 p3603 N84-32824
Thermal modeling of line focus photovoltaic systems
[DE84-013920] 22 p3618 N84-32827
Influence of cobalt, tantalum and tungsten on the high temperature mechanical properties of single crystal nickel-base superalloys 23 p3716 N84-33558

THERMAL BATTERIES
Complex impedance of Ca/CaCrO4/Fe thermal batteries
[DE84-005507] 11 p1647 N84-20771
Compatibility and accelerated aging study for Li(Si)/FeS/sub 2 thermally activated batteries
[DE84-006099] 12 p1813 N84-21818
Evaluation of mica substitutes for use in thermal batteries
[AD-A140650] 17 p2723 N84-27330
Quality control analysis of TA-23 glass seals for lithium ambient temperature batteries
[DE84-011719] 20 p3164 N84-30094
Solid state tetrachloroaluminate storage battery having a transition metal chloride cathode
[AD-D011133] 22 p3618 N84-32924

THERMAL BUCKLING
An improved analysis of the thermal buckling of silicon sheet 18 p2938 N84-28633

THERMAL CONDUCTIVITY
Metallurgical characterization of Niobium/Tin superconducting multifilamentary wires
[AD-A131018] 01 p0044 N84-10281
Theoretical calculation of the temperature dependence of thermal conductivity of glass
[CSIR-TRANS-1686] 01 p0049 N84-10314
Significance of a wall effect in enclosures with growing fires
[PB83-235671] 02 p0192 N84-11247
Origin of pyroelectricity in polyvinilydene fluoride
[DE83-015227] 02 p0201 N84-11311
Membranes and separators for flowing-electrolyte batteries: A review
[DE83-016246] 02 p0242 N84-11586
Thermal property measurement techniques and some results for CdTe
[AD-A131455] 02 p0299 N84-11959
Measurement of thermal conductivity from high-temperature pulse diffusivity and calorimetry measurements
[DE84-000353] 04 p0503 N84-13297
Low-cycle fatigue behavior of oxygen-free high-conductivity copper at 3000C in high vacuum
[DE84-000725] 04 p0504 N84-13305
Automated thermal conductivity probe and applications to powders
[DE84-000451] 04 p0508 N84-13328
Use of numerical heat-transfer techniques to analyze thermal-comparator conductivity measurements
[DE84-000945] 04 p0535 N84-13515
First investigations on a wrapped fiber blanket insulation with massive spacers consisting of carbon fiber composite — ducts
[JUEL-1840] 05 p0646 N84-14247
Transport properties of polycrystalline Ni3Al
[DE84-001969] 05 p0656 N84-14313
Apparent thermal conductivity measurements by an unguarded technique
[DE84-001964] 05 p0685 N84-14503
Second order theory of unsteady burned-anchored flames with arbitrary Lewis number
[CA-8313] 06 p0801 N84-15219
Transport algorithms for methane flames
[AD-A133213] 06 p0801 N84-15221
Optimal design of gas adsorption refrigerators for cryogenic cooling 06 p0820 N84-15348
Thermal conductance and torque of thin section four-point contact ball bearings in vacuum
[ESA-ESTL-54] 06 p0853 N84-15562
Program for development of strain tolerant thermal barrier coating system
[NASA-CR-173214] 07 p0978 N84-16337
Reduction of heat insulation upon soaking of the insulation layer — hollow masonry
[BMFT-FB-T-83-193] 07 p1004 N84-16513
Thermal conductivity of ternary and quaternary III-V compounds
[AD-A135336] 08 p1235 N84-18070
Spectroscopy of thermal energy transport
[AD-A134670] 08 p1235 N84-18073
Hygrothermal effects in continuous fibre reinforced composites. Part 2: Physical properties
[AD-A135766] 09 p1276 N84-18331
Applications of photoacoustic techniques to the study of jet fuel residue
[NASA-CR-173322] 09 p1290 N84-18420
The stiffness torque and thermal conductance of thin-sector four-point contact ball bearings for use in spacecraft mechanisms 09 p1295 N84-18465
Computational methods for ball bearings in spacecraft 09 p1295 N84-18466
Modeling of transient heat pipe operation
[NASA-CR-173305] 09 p1312 N84-18575
Future trends in spacecraft thermal control designs 10 p1439 N84-19397
Ceramic coatings for heat engine materials: Status and future needs
[DE84-003401] 10 p1468 N84-19580
Deep traps in AlGaAs layers at AlGaAs-GaAs interfaces
[DE84-005234] 11 p1745 N84-21387
Overview of zirconia with respect to gas turbine applications
[NASA-TP-2286] 12 p1801 N84-21740
An extremal-variational principle for unsteady thermal conduction applied to thermoelastic problems using finite elements
[MITT-35] 12 p1814 N84-21826
Characterization of humidity sensors and physical properties of h20
[AD-A139024] 13 p1993 N84-22938
Permafrost and the geothermal regime 14 p2165 N84-23964
Thermal property measurement techniques and some results for CdTe and (Hg,Cd)Te alloys
[AD-A139375] 14 p2242 N84-24482
Examination of frontal development during a dry forward combustion
[DE84-006304] 15 p2288 N84-24726
Contribution to the 6th annual report on special purpose materials for magnetically confined fusion reactors: Solid breeder materials
[DE84-006181] 15 p2411 N84-25470
Activities report of the Division of Quantum Metrology
[NPL-QU-AR-82] 16 p2494 N84-26002
A new and unique conductive element for aircraft transparencies
[AD-P003188] 17 p2590 N84-26601
Engineering method of calculating the temperature field of solid and hollow cylinders
[BLL-M-35561-(5828.4)] 17 p2665 N84-26995
Cladding of carbon steel with stainless steel
[BMFT-FB-T-84-030] 18 p2816 N84-27877
Finding the roots of the transcendental equations in the problem of determining the thermal conductivity of a plate under heterogeneous boundary conditions
[BLL-M-35602-(5828.4)] 19 p3062 N84-29554
Metal-semiconductor phase transition and its application
[BLL-DRIC-T-7149-(3623.66)] 19 p3109 N84-29757
Research and development of long heat pipes and their applications — heating road surfaces on bridges 20 p3170 N84-30126
Manipulator having thermally conductive rotary joint for transferring heat from a test specimen
[DE84-010958] 20 p3186 N84-30242
A convective mechanism for inhibition of heat conduction in laser produced plasmas
[DE84-011336] 20 p3194 N84-30289
Temperature profiles from Salt Valley, Utah
[DE84-900996] 21 p3444 N84-31854
Cooling of semiinfinite body under conditions of nonlinear heat transfer at surface 21 p3483 N84-32075
Investigation of the state of materials in plasma deposition of refractory coatings
[BLL-M-35686-(5828.4)] 22 p3551 N84-32485
Thermal management of a lithium/iron-sulfide battery
[DE84-013438] 22 p3587 N84-32722
Calculation of thermal stress state for components of metallurgical equipment by electric simulation
[BLL-M-35690-(5828.4)] 22 p3606 N84-32660
Temperature and heat-flux distributions in a strip-heated composite slab
[DE84-006016] 23 p3712 N84-33529
An evaluation of polymer coatings for the promotion of dropwise condensation of steam
[AD-A144018] 23 p3725 N84-33602
Large-area sheet task advanced dendritic web growth development
[NASA-CR-173958] 23 p3787 N84-34019
Catastrophe in plasma focus evolution
[IPPJ-686] 23 p3826 N84-34268
Electrofilters from polymer materials 24 p3867 N84-34509
Measurement and evaluation of arc characteristics (Ar,N2)
[NASA-TM-77507] 24 p3965 N84-35106

THERMAL CONTROL COATINGS
Spacecraft thermal control selection for seven years of lifetime in synchronous orbit
[MBB-UR-584-82-OE] 02 p0185 N84-11200
Development of strain tolerant thermal barrier coating systems, tasks 1 - 3
[NASA-CR-168251] 03 p0355 N84-12312
Y03: Prequalification of surface treatment. Measurement of laser reflecting power — Earth-Moon telemetry
[ESA-TT-791] 03 p0382 N84-12490
Retroreflector YO3: Study of the optical properties of protected mirrors — Earth-Moon telemetry
[ESA-TT-789] 03 p0443 N84-12907
Program for development of strain tolerant thermal barrier coating system
[NASA-CR-173214] 07 p0978 N84-16337
Eight years of in orbit experience with the HELIOS solar probe thermal control subsystem 10 p1446 N84-19445
OTS 2: Five years of thermal testing on a satellite in a geostationary orbit 10 p1446 N84-19448
Effects of combined ultraviolet and oxygen plasma environment on spacecraft thermal control materials — space shuttle payloads 10 p1446 N84-19449
Ice impact testing of space shuttle thermal protection system materials 10 p1509 N84-19880
Optimization of thermal systems with sensitive optics, electronics, and structures
[NASA-CR-3745] 13 p1939 N84-22608
Atomic-oxygen stimulated outgassing (A0034) 15 p2271 N84-24635
The effect of the space environment on composite materials (A0138-9) 15 p2272 N84-24641
Thermal control coatings experiment (A0138-6) 15 p2273 N84-24647
Exposure of spacecraft coatings (S0010) 15 p2273 N84-24648
Thermal control surface experiment (S0069) 15 p2273 N84-24649
Ion-beam-textured and coated surfaces experiment (S1003) 15 p2273 N84-24650
Low-cost insulator
[AD-A139903] 15 p2284 N84-24709
The measurement of heat transfer and temperature distributions in hypersonic testing 16 p2441 N84-25662
The application of the thermal-control paint PYROLAC PSG 120FD
[ESA-PSS-01-733-ISSUE-1] 16 p2473 N84-25850
On orbit surfacing of thermal control surfaces
[NASA-CR-171121] 21 p3352 N84-31266
Electron charging and SGEMP (System Generated Electromagnetic Pulse) studies on satellite dielectrics
[AD-A143012] 21 p3353 N84-31268
Testing of coatings in space, Long Duration Exposure Facility (LDEF)
[BMFT-FB-W-84-017] 21 p3353 N84-31269
Failure analysis of plasma-sprayed thermal barrier coatings
[NASA-TM-83777] 21 p3365 N84-31347
The SCEPTRE facility: Improved simulation of the space environment through the application of advanced technology 24 p3862 N84-34474

THERMAL CONVECTION
U FREE CONVECTION

THERMAL CURRENTS
U CONVECTIVE FLOW

THERMAL CYCLING TESTS
Characterization of the structure and substructure of thermally transformation cycled Cu-Zn-Al shape memory alloys
[AD-A132341] 04 p0499 N84-13270
Suitability of commercially available laboratory cryogenic refrigerators to support shipboard electro-optical systems in the 10 - 77 Kelvin region 06 p0821 N84-15355
Some inelastic effects of thermal cycling on yttria-stabilized zirconia
[NASA-TM-83488] 07 p1001 N84-16492
Preliminary study of thermomechanical fatigue of polycrystalline MAR-M 200
[NASA-TP-2280] 08 p1130 N84-17350
Thermal cycling tests in space environment simulation chambers 10 p1440 N84-19401
The Large Space Simulator (LSS) at ESA/ESTEC (a summary of the main characteristics) 10 p1448 N84-19458
The new space simulation and thermal vacuum facility WSA/TVA 10 p1448 N84-19460

Sustained load crack growth in Inconel 718 under non-isothermal conditions
[AD-A136925] 10 p1460 N84-19535
Assessment of the existing ground test technology and confronting with the Large Space Structures (LSS) requirements. Thermal test techniques
12 p1781 N84-21622
NASA flight electronics environmental stress screening survey
[NASA-CR-173472] 12 p1841 N84-22002
Thermal endurance of silicone/glass sleeving by the cyclic electrical proof test method of IEC 216 (first report)
[ERA-82-91] 13 p1999 N84-22967
Thermal endurance of silicone/glass sleeving by the cyclic electrical proof test method of ICC 216 (second report)
[ERA-82-136] 13 p1999 N84-22968
A thermal cycling test for the screening of space materials and processes
[ESA-PSS-01-704-ISSUE-1] 16 p2500 N84-28044
Oxidation and corrosion resistance of candidate Stirling engine heater-head-tube alloys
[NASA-TM-83609] 19 p2992 N84-28962
High speed, low cost, LEO-thermal-cycling facility
19 p3048 N84-29340
High-temperature cyclic oxidation data, volume 1
[NASA-TM-83665] 21 p3365 N84-31345
Innovative method for the thermal cycling of large spacecraft systems 24 p3861 N84-34470
Main characteristics of the Large Space Simulation (LSS) 24 p3862 N84-34472

THERMAL DECOMPOSITION
NT PYROLYSIS
Theoretical treatment of the mechanism of residual thrust
[NAL-TR-777] 09 p1274 N84-18320
Spatial and temporal distribution of Northern Hemisphere snow cover
[PB84-116348] 09 p1350 N84-18819
Deuterium isotope effects in HMX thermochemical mechanisms: Decomposition, deflagration, and combustion 13 p1950 N84-22680
CARS studies of nitramine LOVA propellant combustion 13 p1951 N84-22683
Thermodynamics of the decomposition of liquid alloys
17 p2612 N84-26721
Combustion of GAP, part 1 20 p3142 N84-29952
Kevlar-49/epoxy case skirt structural fatigue strength
20 p3143 N84-29955
A study of the tempering transformation of retained austenite in isothermal quenching structures, bainite tempered embrittlement 20 p3159 N84-30065
Laser Induced Chemistry. 1984 JPM Specialist Session
[AD-A142922] 21 p3372 N84-31400
Shock-initiated decomposition of nitramines with laser diagnostics 21 p3372 N84-31401
CO2 laser decomposition of the alkyl phosphites
21 p3373 N84-31402
Characterization of polyetheretherketone and other engineering thermoplastics
[DE84-010868] 23 p3725 N84-33603

THERMAL DEGRADATION
Matrix approach for testing mirrors, part 1
[DE83-009398] 02 p0242 N84-11585
Flightline thermal environment testing of F-111 transparencies
[AD-A131642] 03 p0332 N84-12163
Aging degradation of cast stainless steel: Status and program
[DE84-004018] 08 p1135 N84-17381
An investigation of the thermodegradation of ablative organic silicon resin
[AD-A135546] 08 p1137 N84-17397
Mass spectrometric decomposition studies on several azido and nitrato polymers, thermal plasticizers and novel nitramines
[AD-A134636] 08 p1137 N84-17398
Research planning task group study-thermal destruction
[PB84-145119] 12 p1804 N84-21764
Research into the thermal decomposition of selected energetic material candidates (Project order ATL-2-094)
[AD-A138730] 13 p1968 N84-22770
Research on aviation fuel instability
15 p2289 N84-24734
Modeling degradation and failure of Ni-Cr-Al overlay coatings
[NASA-TM-83672] 18 p2813 N84-27858
Determination of thermal-degradation rates of some candidate Rankine-cycle organic working fluids for conversion of industrial waste heat into power
[DE84-009585] 20 p3197 N84-30304
Characterization and degradation studies on synthetic polymers for aerospace application
[NASA-CR-166597] 21 p3355 N84-31284
Basic problems in InP technology
[AD-A143456] 22 p3663 N84-33222
Thermal degradation studies of segmented thermoplastic elastomers
[AD-A143954] 23 p3724 N84-33600

THERMAL DIFFUSION
Electrical and thermal modeling of railguns
[DE84-001381] 04 p0515 N84-13387
Simulations and theoretical implications of KMS transport experiments for 1.06 micron and 0.53 micron laser radiation
[DE84-000824] 04 p0542 N84-13570
Research opportunities in salt hydrates for thermal energy storage
[DE84-002977] 07 p1026 N84-16850
Thermal diffusivity in thin films measured by noncontact single-ended Pulsed-Laser-Induced thermal radiometry
[AD-A135991] 09 p1396 N84-19116
Thermal diffusion in glass melts
[BMFT-FB-W-83-033] 12 p1802 N84-21751
Techniques of flash radiometry
[AD-A138412] 12 p1908 N84-22427
First results of a MAUS experiment to investigate the stability of a metallic dispersion
17 p2612 N84-26724
Multicomponent diffusion under general chemical potential gradients
[DE84-010830] 22 p3548 N84-32458

THERMAL DIFFUSIVITY
Measurement of thermal conductivity from high-temperature pulse diffusivity and calorimetry measurements
[DE84-000353] 04 p0503 N84-13297
Sensitivity and accuracy analysis of pulse diffusivity measurements on layered samples
[DE84-002104] 06 p1165 N84-17584
Thermal conductivity behavior of boron carbides
[NASA-CR-173165] 09 p1316 N84-18600
Options for an ignited tokamak
[DE84-007927] 13 p2045 N84-23272
Pulsed photothermal radiometry for noncontact spectroscopy, material testing and inspection measurement
[AD-A144640] 24 p3964 N84-35101

THERMAL DISSOCIATION
Dissociation charts for use in spark ignition engine performance work (S.I. units)
[TT-8403] 18 p2850 N84-28095

THERMAL EFFECTS
U TEMPERATURE EFFECTS

THERMAL EFFICIENCY
U THERMODYNAMIC EFFICIENCY

THERMAL EMISSION
NT THERMIONIC EMISSION
Radiative properties of advanced spacecraft heat shield materials
[NASA-CR-3740] 02 p0193 N84-11258
Thermal property measurement techniques and some results for CdTe
[AD-A133899] 05 p0753 N84-14936
Solar absorptance and thermal emittance of some common spacecraft thermal-control coatings
[NASA-RP-1121] 14 p2119 N84-23698
Near infrared observations of the visual reflection nebulae NGC 7023, NGC 2023 and NGC 2068
16 p2570 N84-26497
The 3.3 micron mapping of NGC 7027
16 p2571 N84-26499
Determination of the Io heat flow. 1: Eclipse observations
[NASA-CR-173631] 17 p2774 N84-27614
On Io, all that flickers is not cold
[NASA-CR-173447] 17 p2777 N84-27631
Sociallet-bloc Conference on Climate Forecasting
18 p2856 N84-28134
Near infrared observations of the visual reflection nebulae NGC 1023, NGC 2023, and NGC 2068
18 p2948 N84-28695
The 3.3 micron mapping of NGC 7027
18 p2949 N84-28697
Submillimeter wavelength survey of the galactic plane from l = -5 deg to l = +62 deg: Structure and energetics of the inner disk
[NASA-TM-86077] 20 p3319 N84-31069
Evaluation of the use of thermal airborne prospection for archaeology during the last 10 years
23 p3769 N84-33890
Saturn's rings: 3-mm low-inclination observations and derived properties
[NASA-TM-87363] 23 p3844 N84-34387

THERMAL ENERGY
High-temperature molten salt thermal energy storage systems for solar applications
[NASA-CR-167916] 06 p0873 N84-15879
Thermal-energy transport from arc to rails in an arc-driven rail gun
[AD-A134991] 08 p1152 N84-17499
Geothermal resources of southern Idaho
[USGS-CIRC-866] 14 p2166 N84-23986
Thermal energy recovery in gas turbine engine test cells
[AD-A139457] 14 p2172 N84-24009
Technical use of solar energy: Conversion from solar to thermal energy, solar cooling and thermal energy storage
[BMFT-FB-T-83-300] 15 p2362 N84-25173
Seasonal thermal energy storage
[DE84-013854] 23 p3791 N84-34042

THERMAL ENERGY STORAGE
U HEAT STORAGE

THERMAL ENVIRONMENTS
Flightline thermal environment testing of F-111 transparencies
[AD-A131642] 03 p0332 N84-12163
Analytical prediction of aerothermal environment in a wing-elevon cove — space shuttle orbiter
[NASA-TM-85711] 03 p0370 N84-12412
Thirteenth Space Simulation Conference. The Payload: Testing for Success
[NASA-CP-2340] 24 p3861 N84-34468
Development of a thermal environment simulator for large test articles in a vacuum 24 p3861 N84-34469

THERMAL EXPANSION
NT THERMAL BUCKLING
Anode plasma expansion in pinch-reflex diodes
[AD-A131083] 01 p0149 N84-10977
Structure and properties of polyethylene
[PB83-243931] 02 p0202 N84-11316
Design, performance and operation of the laser interferometric dilatometer
[DE83-014359] 02 p0226 N84-11483
Thermal property measurement techniques and some results for CdTe
[AD-A131455] 02 p0299 N84-11959
Theoretical basis for design of thermal-stress-free fasteners
[NASA-TP-2226] 04 p0548 N84-13614
Profile of laser-produced acoustic pulse in a liquid
[AD-A134138] 05 p0686 N84-14510
Thermal property measurement techniques and some results for CdTe
[AD-A133899] 05 p0753 N84-14936
Program for development of strain tolerant thermal barrier coating system
[NASA-CR-173214] 07 p0978 N84-16337
H Division: Materials physics
[DE84-001063] 07 p1068 N84-16939
Comparison of the characteristics of graphites irradiated at 600 and 9000 deg C
[DE83-015695] 08 p1123 N84-17297
Method of high-temperature expansions in short-range order theory
[BLL-M-35385-(5828.4)] 08 p1129 N84-17344
Hygrothermal effects in continuous fibre reinforced composites. Part 2: Physical properties
[AD-A135766] 09 p1276 N84-18331
Equation of state for titanium dihydride
[DE84-006698] 12 p1794 N84-21698
Thermal property measurement techniques and some results for CdTe and (Hg,Cd)Te alloys
[AD-A139375] 14 p2242 N84-24462
Effect of space exposure of some epoxy matrix composites on their thermal expansion and mechanical properties (A0138-8) 15 p2272 N84-24640
The application of HTR coated fuel particle performance models to various problems in materials' science
[AERE-R-11029] 18 p2931 N84-28589
Forecasting of high voltage insulation performance: Testing of recommended potting materials and of capacitors
[NASA-TM-85536] 22 p3581 N84-32661
Replication of high power laser mirrors
[AD-D011140] 22 p3656 N84-33177
The effects of impurities and additives on the growth of polycrystalline TNT
[MRL-R-916] 24 p3890 N84-34629

THERMAL FATIGUE
The effects of powder metallurgical processing and intermediate thermal mechanical treatment on the fatigue properties of high strength aluminum alloys
[AD-A130790] 01 p0044 N84-10282
Preliminary study of thermomechanical fatigue of polycrystalline MAR-M 200
[NASA-TP-2280] 08 p1130 N84-17350

Engine cyclic durability by analysis and material testing
[NASA-TM-83577] 09 p1330 N84-18683
Thermally induced fractures 14 p2126 N84-23743
Estimating thermal fatigue strength of prototype blades in gas turbine engine 17 p2642 N84-26906
Calculation of crack behaviour on exposure to thermal shock
[BLL-RISLEY-TR-4941-(9091.9F)] 20 p3200 N84-30326

THERMAL GRAVIMETRY
U THERMOGRAVIMETRY

THERMAL INSTABILITY
Thermal instability in transient compartment fire: An approach to characterize flashover and estimate its mechanisms 04 p0513 N84-13366
Tearing instability in an anisotropic neutral sheet
[AD-A132884] 05 p0749 N84-14920
Factors influencing thermomechanical failure of face seals, 3
[AD-A138548] 13 p1997 N84-22961
Thermally induced instabilities of two-layer fluid systems 22 p3592 N84-32745
The bromination of pyrazabole
[AD-A144264] 24 p3880 N84-34581

THERMAL INSULATION
Shuttle launch debris: Sources, consequences, solutions 01 p0019 N84-10124
Development of passive diver thermal protection system
[AD-A130885] 01 p0117 N84-10762
Cryogenic insulation strength and bond tester
[NASA-CASE-MFS-25910-1] 02 p0199 N84-11297
Light-scattering studies of silica aerogels
[DE83-015412] 02 p0201 N84-11306
A light assembly system of sections adaptable to sound or heat insulation, for numerous applications
[BMFT-FB-T-83-065] 02 p0268 N84-11889
First investigations on a wrapped fiber blanket insulation with massive spacers consisting of carbon fiber composite — ducts
[JUEL-1840] 05 p0646 N84-14247
Feasibility of thermal NDE methods for Naval thermal spray coatings
[DE84-001463] 06 p0855 N84-15569
Partial analysis of Insta-Foam 06 p0928 N84-16030
Method and technique for installing light-weight, fragile, high-temperature fiber insulation
[NASA-CASE-MSC-16934-3] 07 p0966 N84-16262
Honeycomb insulating shade
[DE84-001270] 09 p1276 N84-18335
New silicon rubber cable insulation promises circuit integrity, in flaming environment 11 p1723 N84-21237
A polytetrafluorethylene insulated cable for high temperature oxygen aerospace applications 11 p1723 N84-21238
Compact gas insulated transformer
[DE84-006426] 12 p1814 N84-21822
Post-test data report for the space shuttle full-scale AFRSI sequence of environments test (OS-305-1 to -5) in the NASA/Ames Research Center 11x11-foot wind tunnel
[NASA-CR-167884] 13 p1938 N84-22603
Advanced leading edge thermal-structure concept. Direct bond reusable surface insulation to a composite structure
[NASA-TM-85941] 14 p2113 N84-23665
Low-cost insulator
[AD-A139903] 15 p2284 N84-24709
Aerothermal wind tunnel test of the space shuttle OMS (Orbital Maneuvering System) pod AFRSI (Advanced Flexible Reusable Surface Insulation) material
[AD-A140292] 16 p2457 N84-25754
Performance monitoring highlights of BERD programs 16 p2516 N84-26146
Transparent aerogels for low-conductance windows 16 p2517 N84-26157
Materials research activities at the National Bureau of Standards (1975-1982) pertaining to active solar heating and cooling systems
[PB84-154780] 17 p2723 N84-27332
ORNL research programs on refrigeration systems, ECUT materials and tribology
[DE84-007542] 19 p3032 N84-29232
Electroless-plating technique for fabricating thin-wall convective heat-transfer models
[NASA-TP-2349] 21 p3399 N84-31561
Method for forming fibrous silicon carbide insulating material
[DE84-014656] 22 p3545 N84-32442
Development of advanced thermal insulation for appliances
[DE84-013132] 22 p3594 N84-32763
Double layered tailorable advanced blanket insulation
[NASA-CR-166600] 23 p3723 N84-33591

THERMAL MAPPING
Structure of the Saint Francois Mountains and surrounding lead belt, south east Missouri: Inferences from thermal IR and other data sets
[E84-10027] 01 p0099 N84-10645
Use of thermal inertia determined by HCMM to predict nocturnal cold prone areas in Florida
[E84-10005] 02 p0235 N84-11546
Aircraft remote sensing of soil moisture and hydrologic parameters, Taylor Creek, Florida, and Little River, Georgia, 1979 data report
[E84-10010] 02 p0236 N84-11548
Identifying environmental features for land management decisions
[E84-10016] 03 p0392 N84-12556
Two different aspects of phytoplankton bloom seen by satellite (CZCS) in the western English Channel — coastal zone color scanner (CZCS) 03 p0399 N84-12604
Remote sensing analysis of oil pollution in Augusta Bay, Sicily 03 p0400 N84-12616
The synthesized climatic function map 03 p0400 N84-12617
The Heat Capacity Mapping Mission (HCMM) anthology
[E84-10051] 05 p0695 N84-14563
Introduction: Historical perspective on the HCMM program 05 p0695 N84-14564
Principles of thermal remote sensing 05 p0695 N84-14565
Interpretation of HCMM images: A regional study 05 p0696 N84-14566
Summary and overview 05 p0696 N84-14569
Case studies using GOES infrared data and a planetary boundary layer model to infer regional scale variations in soil moisture
[NASA-CR-173250] 07 p1022 N84-16631
Evaluation of thermal data for geologic applications
[NASA-CR-173211] 07 p1033 N84-16703
Comparison of the information content of data from the LANDSAT 4 Thematic Mapper and the multispectral scanner
[E84-10061] 08 p1173 N84-17641
Boundary values of parameters and perspectives for the development of sensors for thermal imaging equipment
[AD-A137185] 11 p1732 N84-21297
New maps of Lakshmi Planum and eastern Aphrodite, Venus 13 p2077 N84-23457
Thermal infrared analysis of volcanic surfaces: Mars and Hawaii 13 p2088 N84-23524
Seasonal oscillations of the subtropical convergence between the Brazil and Malvinas currents, using oceanographic and SMS-2 satellite data
[INPE-3092-PRE/497] 16 p2532 N84-26255
Evaluation of the use of thermal airborne prospection for archaeology during the last 10 years 23 p3769 N84-33890
Interpretation of combined LANDSAT-Heat Capacity Mapping Mission (HCMM) data for geological analysis. Evaluation of scale effect on interpretation of a multisource image 23 p3769 N84-33894

THERMAL NEUTRONS
Kerma factors for use in 37-group neutron spectrum calculations
[AD-A139033] 13 p2041 N84-23240
Defect production efficiencies in thermal neutron irradiated copper and molybdenum
[DE84-010993] 20 p3309 N84-31018

THERMAL NOISE
La Recherche Aerospatiale, Bimonthly bulletin, number 1983-4, 215/July-August
[ESA-TT-823] 13 p1935 N84-22589

THERMAL PLASMAS
Preliminary data processing plan for the thermal plasma experiment on the HILAT satellite
[AD-A132017] 03 p0340 N84-12209
Comparison of thermal plasma observations on SCATHA and GEOS 08 p1117 N84-17262
Ion measurements on GEOS using a negatively biased sensor on a positively charged spacecraft 08 p1117 N84-17263
A potential control method for thermal plasma measurements on the DE-1 spacecraft 08 p1119 N84-17276
Equilibria in strongly magnetized pair plasmas 09 p1407 N84-19191
Bremsstrahlung from longitudinal plasma waves produced by subthermal electrons in plasma 21 p3488 N84-32102
Physics of nonmagnetic relativistic thermal plasmas
[NASA-TM-86154] 24 p3965 N84-35107

THERMAL POWER
U TURBOGENERATORS

THERMAL PROPERTIES
U THERMODYNAMIC PROPERTIES

THERMAL PROTECTION
Trends in shuttle entry heating from the correction of flight test maneuvers 01 p0023 N84-10146
Orbiter entry heating lessons learned from development flight test program 01 p0023 N84-10148
Orbiter windward surface entry Heating: Post-orbital flight test program update 01 p0024 N84-10150
Catalytic surface effects on space thermal protection system during Earth entry of flights STS-2 through STS-5 01 p0024 N84-10152
Filler bar heating due to stepped tiles in the shuttle orbiter thermal protection system 01 p0024 N84-10155
Space shuttle orbiter reusable surface insulation flight results 01 p0025 N84-10157
Lessons learned from the development and manufacture of ceramic reusable surface insulation materials for the space shuttle orbiters 01 p0025 N84-10158
Life considerations of the shuttle orbiter densified-tile thermal protection system 01 p0025 N84-10159
Shuttle TPS thermal performance and analysis methodology 01 p0025 N84-10160
Space shuttle orbiter leading-edge flight performance compared to design goals 01 p0025 N84-10161
MINIVER upgrade for the AVID system. Volume 1: LANMIN user's manual
[NASA-CR-172212] 01 p0120 N84-10779
MINIVER upgrade for the AVID system. Volume 2: LANMIN input guide
[NASA-CR-172213] 01 p0120 N84-10780
MINIVER upgrade for the AVID system. Volume 3: EXITS user's and input guide
[NASA-CR-172214] 02 p0271 N84-11773
Enhancement of the CAVE computer code — aerodynamic heating package for nose cones and scramjet engine sidewalls
[NASA-CR-3731] 04 p0532 N84-13501
Characteristics of various types of ablative materials with associated naval applications
[AD-A133882] 05 p0645 N84-14243
In-flight load testing of advanced shuttle thermal protection systems
[NASA-TM-86024] 08 p1115 N84-17250
Protection against heat radiation in the steel industry — protective visor
[FOA-C-20500-E4] 08 p1206 N84-17864
A method for aerodynamic and aerothermodynamic conceptual design of capsule type reentry vehicle
[NAL-TR-779] 09 p1272 N84-18309
Steady internal flow and aerodynamic loads analysis of shuttle thermal protection system
[NASA-TP-2255] 10 p1439 N84-19393
Re-design and fabrication of titanium multi-wall Thermal Protection System (TPS) test panels
[NASA-CR-172247] 12 p1780 N84-21610
Pre-stressed thermal protection systems
[NASA-CASE-MSC-20254-1] 13 p1938 N84-22601
Low-cost insulator
[AD-A139903] 15 p2284 N84-24709
On the space shuttle wing thermal-structural analysis 16 p2457 N84-25755
Aerothermal performance and damage tolerance of a Rene 41 metallic standoff thermal protection system at Mach 6.7
[NASA-TM-85773] 17 p2615 N84-26739
Thermal response of Space Shuttle wing during reentry heating
[NASA-TM-85907] 18 p2802 N84-27785
Shell tile thermal protection system
[NASA-CASE-LAR-12862-1] 18 p2817 N84-27886
Space Station Systems Technology Study. Volume 2: Trade study and technical selection technical report
[NASA-CR-173776] 19 p2981 N84-28891
Aerothermal loads analysis for high speed flow over a quilted surface configuration
[NASA-TM-86280] 21 p3399 N84-31560
Low cost thermal protection system processing
[AD-D011142] 22 p3544 N84-32434
Research relative to high energy astrophysics — large area modular array of reflectors, X-ray spectroscopy, and thermal control
[NASA-CR-173878] 22 p3678 N84-33315
Advanced strain-isolation-pad material with bonded fibrous construction
[NASA-CR-166599] 23 p3723 N84-33592
Improved thermal barrier coating system
[NASA-CASE-LEW-14057-1] 23 p3724 N84-33595
Transition description and prediction in three-dimensional flows 23 p3748 N84-33761
The SCEPTRE facility: Improved simulation of the space environment through the application of advanced technology 24 p3862 N84-34474

THERMAL RADIATION
Effects of approximate radiation treatments used in the climate models on the clear sky thermal radiation flux and its perturbation due to CO2 increase
[DOE/ER-60023/1] 01 p0104 N84-10674

Heat-storage materials for IRCM
[AD-A133110] 06 p0917 N84-15961
Infrared heating
[BLL-OA-TRANS-3121-(6196.3)] 08 p1154 N84-17512
Wave characteristics of temperature inversion process of nighttime radiation
[AD-A136499] 09 p1348 N84-18809
Atmospheric transmittance/radiance: Computer code LOWTRAN 6. Supplement: Program listings
[AD-A137689] 11 p1706 N84-21123
Computational savings in view factor evaluation on mode prescreening — large space structures 12 p1781 N84-21618
Evaluation of thermocouple and thermal radiation instrumentation for measuring gas turbine combustor liner temperature
[NAL-TR-784] 16 p2495 N84-26009
The radiative cooling resource 16 p2513 N84-26131
Effect of antiscreening of outgoing thermal radiation by cloud cover 20 p3224 N84-30490
Opacification of high temperature fibrous insulation
[NASA-CR-166578] 21 p3356 N84-31285
Main characteristics of the Large Space Simulation (LSS) 24 p3862 N84-34472

THERMAL REACTORS
A practical sublimation source for large-scale chromium gettering in fusion devices
[DE84-000724] 04 p0606 N84-14002
Ion-beam surface analysis in plasma-edge studies
[DE84-001578] 04 p0607 N84-14004

THERMAL RESISTANCE
Structures and properties of new types of cubical boron nitride
[CSIR-TRANS-1683] 01 p0030 N84-10190
Insulation-resistance measurements of coated and uncoated printed wiring boards
[DE83-015457] 01 p0074 N84-10489
Thermal conductance measurements of pressed OFHC copper contacts at liquid helium temperatures
[NASA-TM-85861] 03 p0429 N84-12809
Heat transfer retardation at elevated temperatures. Phase 1: Analysis of heat transfer retardation configurations and materials
[AD-A133509] 06 p0926 N84-16017
Amine terminated bisaspartimides, process for preparation thereof, and polymers thereof
[NASA-CASE-ARC-11421-1] 07 p0978 N84-16340
Strength and thermal shock resistance of SIC-BN composites
[AD-A136891] 10 p1452 N84-19485
Temperature-resistant elements for reverse osmosis treatment of hot process waste
[DE84-005190] 10 p1456 N84-19507
Thermal contacts between metal and glass for use at cryogenic temperatures
[NASA-TM-85856] 12 p1907 N84-22423
Fire and heat resistant laminating resins based on maleimido substituted aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-1] 13 p1953 N84-22697
Heat resistant protective hand covering
[NASA-CASE-MSC-20261-2] 13 p2022 N84-23113
Grain boundary engineering of mechanical strength of silicon nitride (Si3N4)
[NASA-TM-77433] 14 p2119 N84-23699
Performance of thermal barrier coatings in high heat flux environments
[NASA-TM-83663] 15 p2295 N84-24772
Phenoxy resins containing pendent ethynyl groups and cured resins therefrom
[NASA-CASE-LAR-13262-1] 15 p2300 N84-24805
Heat resistant copolyester-carbonate transparent plastics
[AD-P003205] 17 p2583 N84-26618
Heat resistant protective hand covering
[NASA-CASE-MSC-20261-1] 18 p2915 N84-28484
Total temperature probe buffer amplifier
[AD-D011037] 19 p3027 N84-29197
Resistance of microorganisms from mesosphere to periodic freezing-thawing 22 p3630 N84-33001
The Navy program to develop replacements for critical and strategic materials 23 p3704 N84-33478

THERMAL RESOURCES
NT GEOTHERMAL RESOURCES
A summary of modeling studies of the Krafla Geothermal Field, Iceland
[DE84-000939] 05 p0697 N84-14578
Nonaerospace uses of JPL technology: A report on technology transfer
[NASA-CR-172804] 15 p2429 N84-25588
Thermal ground water flow systems in the thrust zone in southeastern Idaho
[DE84-011596] 20 p3229 N84-30517
Economics of a conceptual 75 MW hot dry rock geothermal electric power station
[DE83-015926] 20 p3236 N84-30539

THERMAL SHIELDING
U HEAT SHIELDING

THERMAL SHOCK
Thermal stress analysis of annular glass-to-metal seals under thermal shock 03 p0370 N84-12408
Shock temperatures in anorthite glass
[NASA-CR-173364] 09 p1287 N84-18401
Dynamic instability of suddenly heated, thick, composite shells 15 p2309 N84-24853
Thermo-mechanical and thermal behavior of high-temperature structural materials
[AD-A140520] 16 p2461 N84-25775
Calculation of crack behaviour on exposure to thermal shock
[BLL-RISLEY-TR-4941-(9091.9F)] 20 p3200 N84-30326
Modeling the behavior of type 304 stainless steel with a unified creep-plasticity theory 21 p3417 N84-31672
Thermal shock: High temperature high energy rate testing
[DE84-014147] 22 p3612 N84-32886

THERMAL SIMULATION
Design of an orbital heating simulator using IR techniques 24 p3864 N84-34487

THERMAL STABILITY
NT TEMPERATURE DEPENDENCE
Hydrothermal stability of gamma-aminopropyltriethoxysilane coupling agent on ground silicon powder and E-glass fibers
[AD-A130904] 01 p0037 N84-10234
Thermal stability of four high-strength, high-conductivity copper sheet alloys
[DE83-013312] 01 p0045 N84-10288
An assessment of the use of antimisting fuel in turbofan engines
[NASA-CR-168081] 01 p0052 N84-10332
Apparatus for directional solidification
[DE83-016409] 02 p0196 N84-11271
A review of the use of wear-resistant coatings in the cutting-tool industry
[NASA-TM-83512] 02 p0199 N84-11295
Combustion performance and heat transfer characterization of LOX/hydrocarbon type propellants, volume 2
[NASA-CR-171714] 02 p0202 N84-11318
Evaluation of several high-strength copper sheet alloys
[DE83-015612] 03 p0353 N84-12298
Cobalt ion-containing epoxies
[NASA-TM-85715] 04 p0505 N84-13309
Process for preparing phthalocyanine polymers
[NASA-CASE-ARC-11511-1] 07 p0966 N84-16259
Dressing methods for grinding wheels made of superhard abrasive materials
[CSIR-TRANS-1700] 08 p1141 N84-17419
Electron spin resonance study of thermal instability reactions in jet fuels
[NASA-CR-168333] 09 p1289 N84-18418
Fire-retardant decorative inks for aircraft interiors
[NASA-TM-85876] 10 p1451 N84-19475
Properties of carbon fibers with various coatings
[NASA-TM-77027] 10 p1464 N84-19563
Heat transfer and thermal stability of alternative aircraft fuels, volume 1
[AD-A137404] 10 p1469 N84-19597
Heat transfer and thermal stability of alternative aircraft fuels. Volume 2: Appendices
[AD-A137405] 10 p1469 N84-19598
Thermally stable elastomers: A review
[AD-A137914] 11 p1638 N84-20707
Borophosphate vitreous electrolytes: The relationship between local order, thermal stability and ion transport 11 p1743 N84-21372
Moderate temperature rechargeable NaNiS2 cells 11 p1744 N84-21376
Metastable transition metal alloys produced by rapid quenching: Structure and properties
[AD-A138296] 12 p1798 N84-21729
Thermal stability of diethylene glycol dinitrate (DEGN) propellant
[PML-1983-22] 12 p1803 N84-21752
The onset of detonation behind incident shock waves in chlorine azide-argon mixtures 13 p1990 N84-22921
Thermal endurance of silicone/glass sleeving by the cyclic electrical proof test method of IEC 216 (first report)
[ERA-82-91] 13 p1999 N84-22967
Thermal endurance of silicone/glass sleeving by the cyclic electrical proof test method of ICC 216 (second report)
[ERA-82-136] 13 p1999 N84-22968
Research on aviation fuel instability 14 p2108 N84-23642
Britain's ICI develops new easy-to-shape composites 14 p2118 N84-23695
Metastable phases of rapidly solidified Al-rich, Al-Fe alloys
[AD-A139598] 14 p2128 N84-23757
Thermal and oxidative stabilities of liquid lubricants 14 p2154 N84-23907
Effects of lunar soil and metal oxides on thermal and radiochemical stability of amino acids 14 p2251 N84-24518
Research on aviation fuel instability 15 p2289 N84-24734
Comparison of JFTOT (Jet Fuel Thermal Oxidation Tester) and absorbance methods for determining jet fuel thermal stability
[AD-A138673] 15 p2304 N84-24825
Synthesis and investigation of polyimidobenzimidazoles
[AD-A140184] 16 p2471 N84-25836
A thermal stability test for primary explosive stab sensitizers: Study of the thermal and hydrolytic stability of 1-picryl-5-nitrotetrazole
[MRL-R-918] 16 p2473 N84-25853
New high performance windshield/canopy materials
[AD-P003199] 17 p2592 N84-26612
Chemical news (selected articles)
[AD-A140887] 17 p2627 N84-26806
Evaluation of mica substitutes for use in thermal batteries
[AD-A140650] 17 p2723 N84-27330
Metal phthalocyanine polymers
[NASA-CASE-ARC-11405-1] 18 p2817 N84-27864
Sulfone-ester polymers containing pendent ethynyl group
[NASA-CASE-LAR-13316-1] 19 p2996 N84-28987
Ethynyl-terminated ester oligomers and polymers therefrom
[NASA-CASE-LAR-13118-1] 19 p2997 N84-28988
Testing and failure analysis to improve screening techniques for hermetically sealed metallized film capacitors for low energy applications
[NASA-CR-162071] 19 p3011 N84-29088
Investigations to improve the stability of thermal oxides on polycrystalline and single crystalline silicon
[BMFT-FB-T-84-052] 19 p3113 N84-29780
Properties of polymers: Some uses in electronics, part 1
[DE84-012863] 21 p3370 N84-31366
Synthesis and characterization of phosphorus-containing polyamides and copolyamides based on 1methyl)-2,4- and -2,6-diaminobenzenes
[NASA-TM-85877] 22 p3543 N84-32431
Stabilized unsaturated polyesters
[NASA-CASE-NPO-16103-1] 22 p3558 N84-32530
Investigation of thermal stability of fluorinol-85 and 2-methylpyridine-water as Rankine cycle power system working fluids
[DE84-006420] 22 p3562 N84-32559
Variable gain oven temperature control circuit
[AD-D011141] 22 p3597 N84-32778
Thermal instabilities in the edge region of reversed-field pinches
[DE84-013861] 22 p3659 N84-33196
FTIR analysis of aviation fuel deposits
[NASA-TM-83773] 23 p3726 N84-33606

THERMAL STRESSES
Heat checking in the contact zone of a face seal: A three-dimensional model of a single moving asperity
[AD-A130756] 01 p0079 N84-10513
Effects of bonding temperatures on fatigue crack growth
[AD-A130396] 01 p0094 N84-10615
Elastic-plastic constitutive modeling of concrete
[DE83-014547] 02 p0206 N84-11342
Thermal stress analysis of annular glass-to-metal seals under thermal shock 03 p0370 N84-12408
Analytical response of concrete structures subjected to high temperatures
[DE83-009625] 03 p0389 N84-12538
Space nuclear safety program
[DE83-014070] 03 p0437 N84-12869
Theoretical basis for design of thermal-stress-free fasteners
[NASA-TP-2226] 04 p0548 N84-13614
Study of limiter damage in a magnetic-field error region of the ZT-40M experiment
[DE84-001711] 05 p0750 N84-14924
Transient thermal stresses in a reinforced hollow disk or cylinder containing a radial crack
[NASA-CR-173292] 08 p1170 N84-17619
Biochemical indicators of thermal stress: Selected genetic and physiological parameters
[PB84-100122] 08 p1198 N84-17808

Reanalysis methods for structures with laser induced damage
[AD-A135874] 09 p1322 N84-18638
Comparison of predicted and experimental thermal performance of angular-contact ball bearings
[NASA-TP-2275] 09 p1325 N84-18654
Strength and thermal shock resistance of SiC-BN composites
[AD-A136691] 10 p1452 N84-19485
On the effects of post cure cool down and environmental conditioning on residual stresses in composite laminates 12 p1788 N84-21663
Thermal stress analysis for a wood composite blade — wind turbines
[NASA-CR-173394] 12 p1826 N84-21903
Estimation of local stress intensity in flanged thin-wall shell structures under heavy thermal load 13 p1972 N84-22799
Stressed-strained state of flanged shells under heavy thermal load beyond elastic limit 13 p1972 N84-22800
Effect of fatigue and thermal loads on silicon carbon fiber reinforced glass matrix composites
[DE84-007464] 14 p2121 N84-23710
Thermally induced fractures 14 p2126 N84-23743
Thermal and transformation stresses in hollow tubes during the quenching process
[AD-P002976] 14 p2201 N84-24212
Effects of curing stress on intralaminar cracking in graphite-epoxy laminates 15 p2306 N84-24846
Residual stresses in cross-ply composite tubes
[NASA-CR-173540] 16 p2460 N84-25768
Thermo-mechanical and thermal behavior of high-temperature structural materials
[AD-A140520] 16 p2461 N84-25775
Derating requirements and application rules for electronic components
[ESA-PSS-01-301-ISSUE-1] 16 p2484 N84-25930
Simulation of T-38 aircraft student canopy response to cockpit pressure and thermal loads using MAGNA (Materially and Geometrically Nonlinear Analysis)
[AD-P003231] 17 p2597 N84-26644
Status of new aerothermodynamic analysis tool for high-temperature resistant transparencies
[AD-P003236] 17 p2598 N84-26649
Stability of fuses under cyclic load 17 p2639 N84-26862
Elastoplastic double-wall shells under intricate nonisothermal load 17 p2651 N84-26951
Solar tests of aperture plate materials for solar thermal dish collectors 18 p2872 N84-28233
Edge Stabilized Ribbon (ESR); stress, dislocation density and electronic performance 18 p2937 N84-28630
Control of thermal stress in dendritic web growth 18 p2938 N84-28636
Hygrothermomechanical fracture stress criteria for fiber composites with sense-parity
[NASA-TM-83691] 19 p2985 N84-28918
Support structures for large infrared telescopes
[NASA-CR-3800] 20 p3200 N84-30328
Characterization of thermo-mechanical fatigue 21 p3418 N84-31673
Thermal-stress analysis for wood composite blade — horizontal axis wind turbines
[NASA-CR-173830] 21 p3419 N84-31685
Columbia: The first 5 flights entry heating data series. Volume 5: The side fuselage and payload bay door
[NASA-CR-171732] 22 p3541 N84-32416
Calculation of thermal stress state for components of metallurgical equipment by electric simulation
[BLL-M-35890-(5826.4)] 22 p3608 N84-32660
Boundary layer thermal stresses in cross-ply composite laminates 24 p3956 N84-35057

THERMAL VACUUM TESTS
Thermal conductance and torque of thin section four-point contact ball bearings in vacuum
[ESA-ESTL-54] 06 p0853 N84-15562
Activities report of the European Space Tribology Laboratory (ESTL)
[ESA-ESTL-55] 06 p0853 N84-15563
Achievement of reliability by thermal vacuum testing of spacecraft mechanisms 09 p1296 N84-18472
Spacecraft thermal balance testing using infrared lamps on a dummy spacecraft 10 p1439 N84-19399
Thermal cycling tests in space environment simulation chambers 10 p1440 N84-19401
The Large Space Simulator (LSS) at ESA/ESTEC (a summary of the main characteristics) 10 p1448 N84-19458
The new space simulation and thermal vacuum facility WSA/TVA 10 p1448 N84-19460
Assessment of the existing ground test technology and confronting with the Large Space Structures (LSS) requirements. Thermal test techniques 12 p1781 N84-21622
The importance of thermal-vacuum testing in achieving high reliability of spacecraft mechanisms 15 p2347 N84-25085
A thermal vacuum issue for the screening of space materials
[ESA-PSS-01-702-ISSUE-1] 16 p2500 N84-26043
Special test methods for batteries 23 p3738 N84-33695
Development of a thermal environment simulator for large test articles in a vacuum 24 p3861 N84-34469
Space simulation testing of the Earth Radiation Budget Satellite (ERBS) 24 p3861 N84-34471
Simultaneous thermal vacuum testing of GPS drives for NavStar 24 p3862 N84-34473
Predictive thermal-vacuum modeling by variable coefficients 24 p3864 N84-34493
Improved materials characterization for spacecraft applications 24 p3865 N84-34494
Preparation and cleanliness verifications of a space simulation chamber for contamination sensitive test specimens 24 p3865 N84-34495
Contamination measurements during IUS thermal vacuum tests in a large space chamber — IUS equipment support system 24 p3865 N84-34496
Hubble space telescope component qualification utilizing a residual gas analyzer 24 p3865 N84-34497
Exploratory testing of the MBB 10 N Bipropellant engine. Volume 1: Characterization tests
[MBB-UR-572/82-VOL-1] 24 p3867 N84-34505

THERMALIZATION (ENERGY ABSORPTION)
Physics of nonmagnetic relativistic thermal plasmas
[NASA-TM-86154] 24 p3965 N84-35107

THERMICONS
Studies and tests of pyroelectric vidicons
[FOA-C-30317-E1] 10 p1489 N84-19738

THERMIONIC CATHODES
Thermionic cathode, MITL (Magnetically Insulated Transmission Line) and auxiliary coils systems investigations for the modified betatron
[AD-A133757] 05 p0744 N84-14887

THERMIONIC CONVERTERS
NT SOLAR BLANKETS
Thermionic-photovoltaic energy converter
[NASA-CASE-LEW-14077-1] 11 p1673 N84-20918
Magnetohydrodynamic power generation, electromagnetic pumps, heat pipes, and thermionic convertors
[DE84-009195] 15 p2411 N84-25475
Thermionic conversion reactor technology assessment
[DE84-007611] 22 p3655 N84-33168

THERMIONIC EMISSION
Evaluation of single crystal LaB6 cathodes for use in a high frequency backward wave oscillator tube
[NASA-CR-173343] 10 p1485 N84-19709

THERMIONIC EMITTERS
Effects of reflections and trapped ions on the thermionic emitter sheath
[DE83-010233] 01 p0150 N84-10988
Chemical vapor deposition of oriented tungsten foils for thermionic cathodes
[AD-A132379] 04 p0612 N84-14040

THERMIONIC REACTORS
U ION ENGINES
U NUCLEAR ROCKET ENGINES

THERMIONICS
Development of thermionic integrated circuits for applications in hostile environments
[DE84-011374] 21 p3393 N84-31533

THERMISTORS
Investigation of the currents and density structures of Lake Erie
[PB84-140334] 11 p1672 N84-20911
Thermal detectors as X-ray spectrometers
[NASA-TM-86092] 14 p2148 N84-23866
Thermistor chain observations during MILDEX (mixed layer dynamics experiment)
[AD-A143933] 23 p3803 N84-34114

THERMITES
Dynamic thermography of thermite chemical heat sources
[DE84-002837] 07 p0971 N84-16291
Surface compatibility studies of potassium perchlorate reaction with pyrotechnic fuels
[DE84-002829] 08 p1140 N84-17412
Potassium perchlorate reaction with pyrotechnic fuels
[DE84-002840] 08 p1140 N84-17413
Integral low-energy thermite igniter
[DE84-011062] 20 p3150 N84-29999

THERMOCHEMICAL PROPERTIES
NT HEAT OF COMBUSTION
NT HEAT OF DISSOCIATION
NT HEAT OF FORMATION
NT HEAT OF FUSION
NT HEAT OF VAPORIZATION
Computerized static firing analysis techniques of solid propellant rocket motors 13 p1944 N84-22641
A study of the effects of end-cap molecular species on environmental characteristics of polimidesulfones
[NASA-TM-86283] 22 p3544 N84-32437
Chemistry of energetic fragments: Hypovalent radicals
[AD-A143269] 22 p3547 N84-32453

THERMOCHEMISTRY
NT AEROTHERMOCHEMISTRY
Thermolysis of 4-methyl-4-phenyl malonyl peroxide: A new oxygen dependent chemiluminescent reaction
[AD-A131883] 03 p0349 N84-12268
Thermochemical energy systems research
[DE83-012132] 03 p0404 N84-12644
Movement of free-flowing materials in aerodynamic controlled-feed gate 09 p1324 N84-18652
Turbulent boundary layer thermochemical attack on coated walls
[DE84-005892] 12 p1817 N84-21843
Deuterium isotope effects in HMX thermochemical mechanisms: Decomposition, deflagration, and combustion 13 p1950 N84-22680
Modeling the self-deflagration of HMX 13 p1951 N84-22682
Combustion thermodynamics of some boron-nitrogen-hydrogen compounds 13 p1951 N84-22684
Prediction of thermal rate constants for combustion reaction
[AD-A140736] 17 p2619 N84-26760
Prediction of transition states and thermochemistry for combustion reactions
[AD-A140738] 17 p2619 N84-26761
Reassessment of the OHZ process for the thermochemical decomposition of water
[DE84-007806] 18 p2812 N84-27849
Performance verification tests of an uprated augmented catalytic thruster 20 p3136 N84-29911
Engineering scoping study of the production of hydrogen and oxygen from the cerium oxide-sodium phosphate/carbonate thermochemical cycle
[DE84-010629] 20 p3150 N84-29998

THERMOCLINES
Raft thermocline thermal storage
[DE83-011962] 02 p0218 N84-11431
A statistical approach for determining subsurface thermal structure from sea surface temperature in the northeast Pacific Ocean
[AD-A132204] 05 p0711 N84-14858
The effect of interior motion on seasonal thermocline evolution
[AD-A138270] 13 p2018 N84-23088
Case study of layer fine structure and turbulence within stable elevated layers
[PB84-158666] 14 p2182 N84-24076

THERMOCOUPLE PYROMETERS
Thermocouple simulation: A calibration technique
[DE84-012408] 21 p3406 N84-31606

THERMOCOUPLES
NT THERMOPILES
Trends in shuttle entry heating from the correction of flight test maneuvers 01 p0023 N84-10148
Transient-temperatures-measurement errors
[DE83-006300] 01 p0085 N84-10549
Response of installed temperature sensors
[DE83-015509] 02 p0224 N84-11471
Examination of frontal development during a dry forward combustion
[DE84-008304] 15 p2288 N84-24726
The nicrosil versus nisil type N thermocouple: A commercial reality
[MRL-R-903] 16 p2495 N84-26005
Use of Peltier effect for small signal amplification and conversion 20 p3286 N84-30864
Method and apparatus for measuring response time — thermocouples
[DE84-011042] 21 p3406 N84-31603

THERMODYNAMIC COUPLING
Redox thermodynamics of surface-bound reactants. Illustrative behavior of Cobalt(3)/(2) macrobicyclic cage complexes
[AD-A139058] 13 p1957 N84-22723

THERMODYNAMIC CYCLES
NT BRAYTON CYCLE
NT CARNOT CYCLE
NT OTTO CYCLE
NT RANKINE CYCLE
NT STIRLING CYCLE
Development of a high efficiency compressor/expander for an air cycle air conditioning system
[AD-A130976] 02 p0229 N84-11502
Closed energy cycle with MRD generator using T-layer effect
[AD-A131136] 02 p0242 N84-11583

Testing and characterizations of infrared sensor over the temperature range of 2 Kelvin to 300 Kelvin
06 p0620 N84-15347
Technical and economic feasibility of Stirling cycle industrial heat pumps
[DE84-005486] 11 p1653 N84-20793
Analysis of a topping-cycle, aircraft, gas-turbine-engine system which uses cryogenic fuel
[NASA-TP-2294] 12 p1771 N84-21549
The influence of ground conductivity on the structure of RF radiation from return strokes
[NASA-TM-86065] 12 p1880 N84-22117
Stressed-strained state of flanged shells under heavy thermal load beyond elastic limit
13 p1972 N84-22800
Improved techniques of parallel gap welding and monitoring 19 p3048 N84-29341
Optimization of the thermodynamic cycles of a collective heating power station 23 p3832 N84-34305

THERMODYNAMIC EFFICIENCY
Efficiency terms for Stirling-engine systems
[DE83-014670] 02 p0229 N84-11505
Flat-plate solar-collector performance data base and user's manual
[DE83-011993] 04 p0558 N84-13682
Water and alcohol use in automotive diesel engines: Alternative Fuels Utilization Program
[DE84-004196] 10 p1470 N84-19603
Available energy method for evaluating thermodynamic performance of heat pump systems
[DE84-005188] 10 p1494 N84-19766
Overview of NASA Lewis Research Center free-piston Stirling engine activities
[NASA-TM-83649] 12 p1921 N84-22512
Reduced electric reactance for electric arc furnace
[BMFT-FB-T-83-303] 15 p2328 N84-24976
Comparison of a propfan/turbofan engine by thermodynamic cycle calculation
[ESA-TT-820] 16 p2450 N84-25715
Effect of operating temperature on the HWB model for solar-collector design
[DE84-900248] 16 p2519 N84-26172
Natural environment design criteria for the space station program definition phase
[NASA-TM-82565] 17 p2615 N84-26740
High temperature oxide electrolytes for the splitting of water--the ROC process
[AD-A140881] 17 p2620 N84-26765
Thermodynamic field theory of the dynamic behavior of bipolar junction transistors 21 p3390 N84-31510

THERMODYNAMIC EQUILIBRIUM
Raman scattering temperature measurements for water vapor in nonequilibrium dispersed two-phase flow
[DE83-900107] 01 p0080 N84-10522
The role of H/sub 2O in molecular clouds: Line transfer and thermal balance in warm dusty medium
10 p1596 N84-20460
MINTEQ: A computer program for calculating aqueous geochemical equilibria
[PB84-157148] 12 p1795 N84-21704
MEXAMS (Metals exposure analysis modeling system)
[PB84-157155] 12 p1799 N84-21736
Dense Coulomb plasmas: Quantum statistics and ordering 15 p2410 N84-25464
Model stellar atmosphere and spectrum computations with minicomputer 15 p2423 N84-25555
Determination of the succinonitrile-benzene and succinonitrile-cyclohexanol phase diagrams by thermal and UV spectroscopic analysis
[NASA-TM-82581] 16 p2462 N84-25776
Desulfurization of hot reducing gas by means of metal oxides in a fixed bed reactor
[BMFT-FB-T-84-015] 16 p2483 N84-25783
Generalized spectra of slightly nonlinear Rossby waves 17 p2698 N84-27187
Carbon, oxygen and their interaction with intrinsic point defects in solar silicon ribbon material: A speculative approach
[NASA-CR-173756] 18 p2870 N84-28221
The prediction of electrochemical reactivities from contemporary theory: Some comparisons with experiment
[AD-A142406] 20 p3147 N84-29985
Quasi-steady flames on an evolving atmosphere
[CAR-8406] 21 p3358 N84-31302

THERMODYNAMIC PROPERTIES
NT CRITICAL POINT
NT CRITICAL TEMPERATURE
NT EMISSIVITY
NT ENTHALPY
NT ENTROPY
NT FREE ENERGY
NT HEAT OF COMBUSTION
NT HEAT OF FORMATION
NT HEAT OF FUSION
NT HEAT OF VAPORIZATION
NT MELTING POINTS
NT PYROELECTRICITY
NT SPECIFIC HEAT
NT SUPERCRITICAL PRESSURES
NT SURFACE ENERGY
NT THERMAL BUCKLING
NT THERMAL CONDUCTIVITY
NT THERMAL DIFFUSION
NT THERMAL DIFFUSIVITY
NT THERMAL EXPANSION
NT THERMAL INSTABILITY
NT THERMAL STABILITY
NT THERMOCHEMICAL PROPERTIES
NT THERMOPHYSICAL PROPERTIES
NT VAPOR PRESSURE
NT VOLATILITY
Thermodynamic properties for natural gas binaries
[PB83-228403] 01 p0157 N84-11031
High pressure equation of state of Li, Na and K
[DE83-014844] 02 p0191 N84-11238
Thermophysical properties for synthetic fuels
[DE83-016588] 02 p0191 N84-11239
A climatology of synoptic scale atmospheric structure prior to severe convective storms
02 p0253 N84-11653
Photothermal displacement spectroscopy of surfaces and thin films
[DE83-015957] 03 p0350 N84-12279
Thermal performance of the MFTF magnets
[DE83-016275] 03 p0454 N84-12988
Dense molecular thermodynamics
[DE83-015216] 03 p0457 N84-13006
The far infrared sky survey experiment
[AD-A131966] 03 p0461 N84-13037
Radial thermomechanical behaviour
[BLL-OA-TRANS-2639-(6196.3)]
04 p0533 N84-13503
Prediction of multicomponent liquid-mixture viscosity from binary thermodynamic data
[DE83-011934] 04 p0536 N84-13524
The effects of environment and dwell on high temperature fatigue crack growth of 2 1/4 Cr - 1 Mo steel
[AD-A132147] 04 p0549 N84-13617
A composite analysis of a tropical squall-line system
04 p0565 N84-13727
Analysis and modeling of photosynthetic bacterial hydrogen production plants
[DE84-000003] 04 p0570 N84-13758
The effect of humidity on the thermomechanical behavior of carbon fiber reinforced epoxy resins
[MBB-BB-526-82-OE] 05 p0645 N84-14241
Characteristics of various types of ablative materials with associated naval applications
[AD-A133882] 05 p0645 N84-14243
Closed cycle cryocooler for low temperature electronics circuits: Cold end test
[AD-A134043] 05 p0862 N84-14354
Some remarks on the creeping flow of the second grade fluid
[AD-A132806] 05 p0681 N84-14473
Powder metallurgy
[BLL-M-35271-(5828.4)] 06 p0803 N84-15231
Computer program for analysis of split-Stirling-cycle cryogenic coolers 06 p0820 N84-15344
Thermodynamics of aqueous sodium chloride to 823 K and 1 kbar
[DE84-001841] 06 p0927 N84-16019
Thermally induced spin rate ripple on spacecraft with long radial appendages
[NASA-TM-85058] 07 p0964 N84-16249
Silicon nitride: A ceramic material with outstanding resistance to thermal shock and corrosion
[NASA-TM-77067] 07 p0978 N84-16336
Transactions of the Japan Society for Aeronautical and Space Sciences, vol. 26, no. 73, November 1983
[ISSN-0549-3811] 07 p0984 N84-16374
Extensions of the theory of the electron-phonon interaction in metals: A collection
[AD-A134140] 07 p1079 N84-17018
Considerations on the external combustion system of the Stirling hot gas engine
[NASA-TM-77026] 08 p1123 N84-17302
Molten salt electrochemical systems
[AD-A135108] 08 p1124 N84-17304
NBS (National Bureau of Standards): Materials measurements — space processing experiments
[NASA-CR-173162] 08 p1136 N84-17384
The effect of pressure on complex heat exchange in a channel with an electric arc
[BLL-OA-TRANS-3090-(6196.3)]
09 p1311 N84-18569
Investigation of the thermal initiation of detonation in nitromethane
[AD-A136211] 09 p1316 N84-18598
Review of the use of the thermodynamic diagram and its functions (with the application towards AFOS)
[PB84-120815] 09 p1350 N84-18822
Melting of electrons on corrugated surfaces: Structural and dynamical properties in liquid and solid phases
[DE84-004023] 09 p1397 N84-19122
Computer-based methods for thermodynamic analysis of materials processing
[AD-A138085] 09 p1397 N84-19123
Heat transfer and thermal stability of alternative aircraft fuels, volume 1
[AD-A137404] 10 p1469 N84-19597
Heat transfer and thermal stability of alternative aircraft fuels. Volume 2: Appendices
[AD-A137405] 10 p1469 N84-19598
Evaluation of nickel-hydrogen battery for space application
[NASA-TM-77355] 10 p1528 N84-20012
Design, performance, and analysis of an aquifer thermal-energy-storage experiment using the doublet-well configuration
[DE84-001811] 10 p1529 N84-20019
Thermal properties of binary aqueous solutions at high temperatures and high pressure
[BMFT-FB-T-83-217] 12 p1794 N84-21701
Analysis of shear strain localization in thermal visco-plastic materials
[AD-A138186] 12 p1798 N84-21727
Effect of non-constant solid phase thermal properties on temperature sensitivity of solid propellant
13 p1946 N84-22654
Electron-transfer kinetics of redox centers anchored to metal surfaces: Weak- versus strong-overlap reaction pathways
[AD-A139043] 13 p1956 N84-22718
Hypersonic flow around flat body in case of intense radiative heat exchange 13 p1972 N84-22795
Qualities of SEP ceramic-ceramic Cerasep composites
13 p2038 N84-23225
Thermal evaluation of selected ablative materials in transient low heat flux environments
[AD-A139441] 14 p2130 N84-23768
Atmospheric environment for Space Shuttle (STS-9) launch
[NASA-TM-82572] 14 p2179 N84-24047
Electrical conductivity of an arbitrarily dense plasma
[DE84-008006] 14 p2230 N84-24374
Thermal property measurement techniques and some results for CdTe and (Hg,Cd)Te alloys
[AD-A139375] 14 p2242 N84-24462
Combustion gas properties of various fuels of interest to gas turbine engineers
[NASA-TM-83682] 15 p2261 N84-24584
Dynamic instability of suddenly heated, thick, composite shells 15 p2309 N84-24853
Application of regular associated solution model to the liquidus curves of the Sn-Te and Sn-SnS systems
15 p2402 N84-25418
Fluorescent guests in thermotropic and chirality in lyotropic liquid crystals
[AD-A139985] 15 p2413 N84-25487
Uninstalled aero engine testing in operation in the Royal Air Force 16 p2453 N84-25731
Evaluation of material of thermal response
[DGT-23.190A] 16 p2474 N84-25856
A thermal cycling test for the screening of space materials and processes
[ESA-PSS-01-704-ISSUE-1] 16 p2500 N84-26044
ICAN: Integrated composites analyzer
[NASA-TM-83700] 17 p2618 N84-26755
Mass transfer and thermodynamic studies of evaporative freezing of water
[PB84-153501] 17 p2620 N84-26769
Influence of container interactions on the vaporization thermodynamics of nickel
[MRL-R-884] 17 p2622 N84-26784
Solar collector test procedures: Development of a method to refer measured efficiencies to standardized test conditions
[PB84-165299] 17 p2723 N84-27333
Anomalies in, and crystallization of supercooled water and aqueous solutions
[AD-A140582] 17 p2767 N84-27573
Materials Research Laboratory report
[AD-A140898] 17 p2769 N84-27580
Spherical heat radiation receiver with white target
18 p2827 N84-27945
Thermodynamic and kinetic properties of interstitial solid solutions
[AD-A132783] 18 p2942 N84-28659
A study of thermal properties and the heating process in asphaltic concrete
[AD-A141691] 19 p3035 N84-29254
Photothermal spectroscopy of weakly absorbing samples using a thermal wave phase shifter
[AD-A142056] 19 p3104 N84-29721

A tractable theory for nonlinear propellant response and cumulative damage predictions
20 p3142 N84-29950
Self-propagating high-temperature synthesis of ceramics in vacuum
[AD-A142506] 20 p3162 N84-30079
Guidelines for running the thermal computational model of the eye
[AD-A142550] 20 p3260 N84-30688
Property screening and evaluation of ceramic turbine materials
[AD-A142739] 21 p3343 N84-31210
Calorimetric determination of the thermodynamic behavior of reversible liquid-phase reactions for use in energy storage
[DE84-010437] 21 p3507 N84-32218
Determination of thermodynamic characteristics of the barium dissolution process in liquid iron
[BLL-M-35634-(5828.4)] 22 p3551 N84-32481
Properties of UV-curable polyurethane acrylates: Effect of reactive diluent
[AD-A143241] 22 p3559 N84-32540
Nonlinear burning stability of solid propellants
[AD-A143573] 22 p3562 N84-32554
Materials testing of the IUS techroll seal material
[NASA-TM-86462] 22 p3604 N84-32829
Heat rejection system technology demonstration model — spacecraft thermal control
[TD-RP-AI-004] 23 p3701 N84-33459
Engineering and design properties of thallium-doped sodium iodide and selected properties of sodium-doped cesium iodide
[NASA-RP-1131] 23 p3726 N84-33613
Spectroscopy of adsorbates by transient laser calorimetry
[AD-A144473] 24 p3880 N84-34584

THERMODYNAMICS
NT AEROTHERMODYNAMICS
NT COMBUSTION PHYSICS
NT NONEQUILIBRIUM THERMODYNAMICS
Electrothermal production of magnesium
[CSIR-TRANS-1679] 01 p0039 N84-10250
Thermodynamic activity of carbon in solid nickel
[BLL-M-35192-(5828.4)] 01 p0040 N84-10258
The effects of powder metallurgical processing and intermediate thermal mechanical treatment on the fatigue properties of high strength aluminum alloys
[AD-A130790] 01 p0044 N84-10262
Technical and economic investigations of a low-temperature Rankine-cycle heat engine
[DE83-016757] 01 p0091 N84-10596
An investigation of thermal characteristics of plate-in-tube solar receivers 01 p0101 N84-10658
Thermodynamic estimation of influence of alloying on sticking fault energy of bcc metals
[BLL-M-30130-(5828.4)] 01 p0151 N84-10995
Dugway, Utah range reference atmosphere 0-30 Km altitude
[AD-A131110] 02 p0254 N84-11664
Review of Stirling-engine mathematical models
[DE83-016454] 02 p0301 N84-11974
New conformal solution theory
[PB83-249441] 03 p0457 N84-13006
INHYD: Computer code for intraply hybrid composite design. A users manual
[NASA-TP-2239] 04 p0491 N84-13224
Thermodynamic surface for water: The formulation and computer programs
[PB83-249789] 04 p0496 N84-13256
Thermomechanical processing of M-50 steel
[AD-A132272] 04 p0499 N84-13271
T-HEMP3D user manual
[DE84-000526] 04 p0582 N84-13845
Chemical reactions in turbulent mixing flows, revision
[AD-A133874] 05 p0647 N84-14258
Fabrication of SiC, Si3N4 and AlN combustion synthesis
[DE84-001766] 05 p0660 N84-14339
The interfaces of one-dimensional flows in porous media
[AD-A132662] 05 p0681 N84-14478
The MIXPAC: A subroutine package for calculating equations of state for equilibrium mixtures of materials
[DE84-002302] 05 p0730 N84-14796
Numerical analysis of a Stefan problem
[AD-A132623] 05 p0737 N84-14838
Thermodynamics of condensed ionic systems
[DE84-001823] 05 p0755 N84-14950
Journal of Engineering Thermophysics (selected articles)
[AD-A133167] 06 p0796 N84-15184
Propellant nonlinear constitutive theory extension: Preliminary results
[AD-A133364] 06 p0812 N84-15287
LARC: Computer codes for Lagrangian analysis of stress-guage data to obtain decomposition rates through correlation to thermodynamic variables
[DE84-002404] 06 p0813 N84-15292
Fluid thermodynamics
[ESA-TT-778] 06 p0845 N84-15512
A thermodynamically consistent constitutive model for inelastic flow of materials 06 p0857 N84-15581
Thermostatic fine control valves mounted on the radiators in district heating systems
[BMFT-FB-T-83-169] 07 p1012 N84-16568
ECUT: Energy Conversion and Utilization Technologies program. Chemical Processes project report, FY 1982
[NASA-CR-173212] 07 p1025 N84-16642
Entropy production during fatigue as a criterion for failure. The critical entropy threshold: A mathematical model for fatigue
[AD-A134767] 08 p1171 N84-17628
Fatigue-induced and time-dependent changes in thermomechanical properties of hybrid composite laminates
[PB84-126333] 09 p1277 N84-18336
Stellar atmospheric structural patterns
[NASA-SP-471] 09 p1414 N84-19253
Introductory comments on stellar atmospheric structure and its modeling 09 p1414 N84-19254
Speculative-theoretical modeling of the atmosphere enveloping a hypothetical (closed, thermal) star
09 p1414 N84-19255
Inferences on the thermodynamic characteristics of a star from the observed distinctive radial sequences of the distinctive atmospheric regions comprising that stellar atmosphere 09 p1415 N84-19259
Transport behavior of multivalent beta aluminas
11 p1743 N84-21370
Survey of techniques employed in the analysis of rocket motor solid propellants
[ED-80-292] 12 p1782 N84-21630
Direct-contact high-temperature thermal energy storage heat exchanger
[DE84-000012] 12 p1816 N84-21839
NIPROP: A computer package for the thermodynamic and thermophysical properties of nitrogen
[OUEL-1485/83] 12 p1917 N84-22487
The thermodynamics of real and unreal black powder
13 p1950 N84-22675
Thermoelastic stresses in metal with temperature: Dependent properties in radiant heating
[BLL-M-35526-(5828.4)] 13 p1960 N84-22733
The calculation of the heat transfer associated with the injection of methane gas at the stagnation point of the dissociated boundary layer of the laminar air flow
[AD-A139063] 13 p1990 N84-22918
Crack layer theory
[NASA-CR-174634] 13 p2001 N84-22980
Thermodynamic model for a central receiver of a solar plant with partial shading of the heliostat field
[ESA-TT-807] 13 p2010 N84-23034
The ideally polarizable interface: A solvable model and general sum rules
[AD-A138720] 13 p2036 N84-23207
An experimental estimate of the electron-tunneling distance for some outer-sphere electrochemical reactions
[AD-A139049] 13 p2047 N84-23284
Thermodynamics and kinetics of the gas phase and pack aluminide coating formation on iron and steel
13 p2049 N84-23291
Geologic investigations of outer planets satellites
[NASA-CR-173497] 13 p2091 N84-23544
Solid propellant nonlinear constitutive theory extension
[AD-A139957] 15 p2304 N84-24823
Thermodynamic model of creep at constant stresses and constant strain rates
[AD-A139883] 15 p2317 N84-24908
Thermomagnetic generator
[DE84-007685] 15 p2365 N84-25189
A critical assessment of thermodynamic data for the Ca-Mg system
[NPL-DMA(A)-73] 15 p2415 N84-25500
Journal of engineering thermophysics (selected articles)
[AD-A139070] 15 p2415 N84-25501
Topics in finite time thermodynamics
[DE84-009057] 15 p2416 N84-25502
Thermodynamics of the decomposition of liquid alloys
17 p2612 N84-26721
Movement mechanism of solitary synoptic eddies
17 p2707 N84-27239
Harmony theory: Problem solving, parallel cognitive models and thermal physics
[AD-A140677] 17 p2759 N84-27515
Theory and experiments on chemical instabilities
[AD-A140947] 18 p2810 N84-27841
First All-Union Symposium on M.A.P.: Conclusion of report 18 p2822 N84-27917
Second-law efficiency of solar-thermal cavity receivers
[NASA-CR-173732] 18 p2871 N84-28223
Experimental study of the thermodynamics of thin films and surfaces
[DE84-010361] 18 p2943 N84-28660
Oxygen diffusion in alpha-Al2O3
[NASA-TM-83622] 19 p2997 N84-29990
Problems of constitutive modeling and stability of dissipative bodies
[ISSN-0208-5658] 19 p3081 N84-29551
Applications of the variational integral in iterative numerical solutions to the stationary heat equations
[AD-A141091] 19 p3083 N84-29563
Chemical attenuation rates, coefficients, and constants in leachate migration. Volume 1: A critical review
[DE84-009432] 20 p3238 N84-30557
USSR report: Physics and mathematics
[JPRS-UPM-84-001] 20 p3285 N84-30862
Propagation of acoustic waves in partially saturated porous media
[DE84-010536] 20 p3291 N84-30896
Superplasticity in thermomechanically processed high magnesium aluminum-magnesium alloys
[AD-A143164] 21 p3366 N84-31356
Properties of polymers: Some uses in electronics, part 1
[DE84-012663] 21 p3370 N84-31386
Water vapor electrolysis: Systems considerations and cost/performance benefits
[DE84-007389] 21 p3374 N84-31410
Thermodynamic field theory of the dynamic behavior of bipolar junction transistors 21 p3390 N84-31510
USSR report: Physics and mathematics
[JPRS-UPM-84-003] 21 p3477 N84-32043
START/TM: A study of start-up and fractional power operation of tandem mirror fusion reactors
[DE84-011477] 21 p3502 N84-32196
Predictions of entropies of molecules and liquids
[DE84-010504] 21 p3507 N84-32216
Nonlinear analysis of Stirling engine thermodynamics
[DE84-013493] 21 p3507 N84-32219
A study of heat release rate distribution in a gas turbine combustor by acoustic measurements
22 p3536 N84-32385
Heat-of-mixing experiments for liquefied gases
[PB84-215094] 22 p3562 N84-32560
Behavior of Al2O3 and SiO2 with heating in a Cl2 + CO stream
[NASA-TM-77487] 23 p3713 N84-33533
Thermodynamic analysis of journal bearings operating under steady state loading in laminar regime
23 p3756 N84-33809
Review of LOX Bearing and Seal Materials Tester (BSMT) radial load system
[NASA-CR-171162] 23 p3756 N84-33810
Thermodynamic analysis of multicomponent working fluids for Rankine bottoming cycle applications
[DE84-014843] 23 p3757 N84-33814
Extension of constrained incremental Newton Raphson methodologies to handling generalized thermomechanical loading fields 23 p3760 N84-33829

THERMOELASTICITY
NT AEROTHERMOELASTICITY
A numerical method in solving a coupled thermoelasticity equation and some results
[AD-A130183] 01 p0129 N84-10843
Approximate solution of the problem of thermoelasticity of a sphere with variable properties
[BLL-M-35369-(5828.4F)] 04 p0547 N84-13606
Profile of laser-produced acoustic pulse in a liquid
[AD-A134138] 05 p0686 N84-14510
Finite element investigations of thermo-elastic and thermo-plastic consolidation 11 p1667 N84-20875
An extremal-variational principle for unsteady thermal conduction applied to thermoelastic problems using finite elements
[MITT-35] 12 p1814 N84-21826
Thermoelastic stresses in metal with temperature: Dependent properties in radiant heating
[BLL-M-35526-(5828.4)] 13 p1960 N84-22733
Factors influencing thermomechanical failure of face seals, 3
[AD-A138546] 13 p1997 N84-22961
Durability of structural adhesively bonded systems
[AD-A140714] 17 p2626 N84-26805
Extension of finite element programs to thermoelastoviscoplastic domains
[CETIM-11-A-102] 21 p3424 N84-31716
Transient 3-dimensional thermoelasticity by the integral equations method
[CETIM-11-B-071] 21 p3424 N84-31717
Dynamic stress in elastic areas developing upon interaction of intensive heat fluxes with solid bodies
24 p3873 N84-34545

THERMOELECTRIC CONVERSION SYSTEMS
U THERMOELECTRIC POWER GENERATION

THERMOELECTRIC COOLING
Parametric testing and evaluation of a free-piston Stirling engine/linear-compressor system
[DE83-017282] 04 p0545 N84-13590
Thermoelectric temperature control system for the pushbroom microwave radiometer (PBMR)
[NASA-TM-85824] 16 p2836 N84-28000

THERMOELECTRIC GENERATORS
Detection and sizing of underbead cracks using ultrasonic nondestructive examination
[DE83-012205] 11 p1666 N84-20869
Thermionic-photovoltaic energy converter
[NASA-CASE-LEW-14077-1] 11 p1673 N84-20918
Ultrasonic inspection of MC2893 strength member assembly weld
[DE84-007084] 12 p1824 N84-21892
Space nuclear safety program
[DE84-006693] 12 p1904 N84-22399
Power plants in space
[AD-A142099] 19 p2983 N84-28902
APL/JHU free flight tests of the general purpose heat source module. Testing: 5-7 March 1984
[DE84-011065] 20 p3299 N84-30948
Power flattening techniques for radioisotopic thermoelectric generators
[AD-A142937] 21 p3391 N84-31520

THERMOELECTRIC MATERIALS
Refractory materials for high-temperature thermoelectric energy conversion
[NASA-CR-173159] 06 p1136 N84-17388

THERMOELECTRIC POWER GENERATION
Investigation of pulsed performance of an electrothermal hydrazine thruster, using a special see-through thruster
[AD-A137408] 10 p1451 N84-19473
Solar thermal system engineering guidebook
[NASA-CR-173432] 15 p2361 N84-25165
Materials for high-temperature thermoelectric conversion
[NASA-CR-173969] 23 p3786 N84-34011

THERMOELECTRICITY
Analysis of thermoelectric properties of high-temperature complex alloys of nickel-base, iron-base and cobalt-base groups
[NASA-TP-2278] 09 p1281 N84-18370
On the mechanical and thermoelectric behavior of compositon modulated foils 11 p1666 N84-20870

THERMOGRAMS
U RECORDING INSTRUMENTS
U TEMPERATURE MEASURING INSTRUMENTS

THERMOGRAVIMETRY
Evaluation of mica substitutes for use in thermal batteries
[AD-A140650] 17 p2723 N84-27330
Calorimetric and thermogravimetric analysis applied to industrial polymers
[SNIAS-841-551-101] 21 p3372 N84-31399
Characterization of polyetheretherketone and other engineering thermoplastics
[DE84-010668] 23 p3725 N84-33803

THERMOHYDRAULICS
Thermal analysis of a helium-cooled tube-bank blanket module for a tandem-mirror fusion reactor
[DE83-015840] 02 p0297 N84-11945
Thermohydraulics of liquid metals, volume 1 — conferences
[VKI-LS-1983-07-VOL-1] 06 p0841 N84-15487
Mixed convection and stratification phenomena in liquid metals 06 p0842 N84-15488
Single phase sodium flow in complex and deformed generators 06 p0842 N84-15489
Thermohydraulics in liquid metals 06 p0842 N84-15491
Thermohydraulics of liquid metals, volume 2 — conferences
[VKI-LS-1983-07-VOL-2] 06 p0842 N84-15494
The BLOW-3A: A theoretical model to describe transient two phase flow conditions in Liquid Metal Fast Breeder Reactor (LMFBR) coolant channels 06 p0843 N84-15497
Theoretical simulation of thermohydraulic behavior of sodium cooled subassemblies in steady state and transient conditions — liquid metal fast breeder reactors (LMFBR) 06 p0843 N84-15498
Computation of the thermohydraulics in subassemblies for accident situations — liquid metal fast breeder reactors (LMFBR) 06 p0843 N84-15499
Thermohydraulics of LMFBR core catchers — liquid metal fast breeder reactors (LMFBR) 06 p0843 N84-15500
Thermohydraulic applications of liquid metals in the non-nuclear field 06 p0843 N84-15501

THERMOLUMINESCENCE
Transmission of fast neutrons from the Li(d,xn) reaction through thick iron
[DE83-015975] 03 p0439 N84-12884
Dependence of thermoluminescence output on temperature during irradiation for several thermoluminescence phosphors
[AD-A134940] 08 p1125 N84-17313
A study of the mechanics of radiation damage in fiber optical waveguides
[AD-A139590] 14 p2225 N84-24352
Optical absorption and thermoluminescence in MgO:Ni and MgO:Li irradiated at room temperature
[JEN-556] 16 p2561 N84-26427
Recent developments in thermoluminescence kinetics
[DE84-013226] 22 p3547 N84-32457
Properties of principal TL (thermoluminescence) dosimeters
[AD-A143635] 23 p3751 N84-33776
Thermoluminescence dosimeter
[DE84-014247] 23 p3751 N84-33782

THERMOMAGNADYNAMICS
U THERMOMAGNETIC EFFECTS

THERMOMAGNETIC EFFECTS
Martensitic transformations, relaxation and acoustic-emission properties of some alloys of the Fe-Ni-Mn system
[BLL-M-35434-(5828.4)] 09 p1281 N84-18363
Thermomagnetic generator
[DE84-007685] 15 p2365 N84-25189
Producing thermomagnetic alloy by powder metallurgy
[BLL-M-35668-(5828.4)] 22 p3553 N84-32500
Thermomagnetic properties of GdPd
[DE84-009991] 22 p3556 N84-32515

THERMOMAGNETISM
U THERMOMAGNETIC EFFECTS

THERMOMECHANICAL TREATMENT
An investigation into thermomechanical treatment by rolling of High Strength Low Alloy (HSLA) steels for improving their mechanical and technological properties
[BMFT-FB-T-83-083] 02 p0197 N84-11284
Finite element analysis of metal forming processes with thermomechanical coupling
[DE84-004879] 10 p1462 N84-19548
Select fiber composites for space applications: A mechanistic assessment
[NASA-TM-83631] 13 p1954 N84-22702
The heat treatment response of thermomechanically processed M-50 steel
[AD-A138571] 13 p1960 N84-22736
Properties of polymers: Some uses in electronics, part 1
[DE84-012663] 21 p3370 N84-31386
Characterization of thermo-mechanical fatigue 21 p3418 N84-31673
Contribution ot the high temperature deformation behavior of the austenitic steel 1.4981 after neutron irradiation
[JUEL-1904] 23 p3720 N84-33584

THERMOMECHANICS
U THERMODYNAMICS

THERMOMETERS
NT RESISTANCE THERMOMETERS
An analysis of aircraft data collected in the Alboran Sea during Donde Va?, 6 - 18 October 1982
[AD-A133995] 06 p0883 N84-15746
Specific heat of He-3 in the Fermi liquid region
[DE83-011566] 06 p0924 N84-16009
A transportable cryostat
[NAL-TR-791] 12 p1818 N84-21850
Procedures for acceptance testing of solar energy systems
[AD-A141839] 19 p3051 N84-29359

THERMOMETRY
U TEMPERATURE MEASUREMENT

THERMONUCLEAR REACTIONS
NT CONTROLLED FUSION
NT NUCLEAR FUSION
Low activation approaches to materials development
[DE83-015972] 02 p0196 N84-11273
Thick deposits and overlays for fusion-reactor applications
[DE83-014626] 02 p0293 N84-11919
Hydrodynamic simulations of a combined hydrogen, helium thermonuclear runaway on a 10 km neutron star
[DE83-012658] 03 p0483 N84-13047
Theoretical calculation of rapid X-ray transients and radius expansion
[DE84-001312] 06 p0941 N84-16114
Television system for monitoring target position in laser thermonuclear fusion experiments 13 p1969 N84-22781
NRC survey on plasma physics and fluids fusion plasma confinement and heating. Chapter 8: Inertial confinement fusion
[AD-A142302] 19 p3107 N84-29744
Studies of amplifier module in Delfin Facility for heating thermonuclear plasma 20 p3269 N84-30881
Plasma dynamics 22 p3683 N84-33354

THERMOPHILIC PLANTS
NT BLUE GREEN ALGAE

THERMOPHYSICAL PROPERTIES
NT CRITICAL POINT
NT CRITICAL TEMPERATURE
NT EMISSIVITY
NT HEAT OF FUSION
NT MELTING POINTS
NT PYROELECTRICITY
NT SPECIFIC HEAT
NT SUPERCRITICAL PRESSURES
NT TEMPERATURE DEPENDENCE
NT THERMAL CONDUCTIVITY
NT THERMAL DIFFUSION
NT THERMAL DIFFUSIVITY
NT THERMAL STABILITY
NT VAPOR PRESSURE
NT VOLATILITY
Thermophysical property determination using transient techniques
[AD-A130707] 01 p0156 N84-11027
Journal of Engineering Thermophysics (selected articles)
[AD-A129432] 02 p0160 N84-11172
A literature survey of the electrical resistance and thermal properties of modern composites and of the fibers and matrices that constitute them
[FOA-C-20505-D6(F9)] 07 p0968 N84-16274
Hydrogen sulfide provisional thermophysical properties from 188 to 700 K at pressures to 75 MPa
[PB84-122704] 08 p1127 N84-17329
Investigation of the thermophysical properties of high-melting materials with the aid of a complex of instruments
[NASA-TM-77402] 10 p1453 N84-19491
NIPROP: A computer package for the thermodynamic and thermophysical properties of nitrogen
[OUEL-1485/83] 12 p1917 N84-22487
Thermal control coatings experiment (A0138-8) 15 p2273 N84-24647
Estimation of melting rate of snow by simple formulae using only air temperature 15 p2353 N84-25121
Thermo-mechanical and thermal behavior of high-temperature structural materials
[AD-A140520] 16 p2461 N84-25775

THERMOPHYSICS
U THERMODYNAMICS

THERMOPILES
Thermoacoustic couple
[DE84-011296] 20 p3291 N84-30895

THERMOPLASTIC FILMS
Hot melt recharge system — repairing damaged or missing tiles on space shuttle orbiter
[NASA-CASE-LAR-12881-1] 05 p0658 N84-14323
Heat sealable, flame and abrasion resistant coated fabric
[NASA-CASE-MSC-18382-2] 05 p0658 N84-14324
Recent advances in design of low cost film concentrator and low pressure free piston Stirling engines for solar power 18 p2875 N84-28253

THERMOPLASTIC RESINS
NT THERMOPLASTIC FILMS
Material characterization of structural adhesives in the lap shear mode
[NASA-CR-172237] 02 p0199 N84-11294
Characterization of glass-filled engineering thermoplastic composites
[DE84-000361] 04 p0492 N84-13231
Fire and smoke retardants 04 p0510 N84-13343
Phenoxy resins containing pendent ethynyl groups
[NASA-TM-85747] 07 p0978 N84-16338
An investigation of the thermodegradation of ablative organic silicon resin
[AD-A135546] 08 p1137 N84-17397
Welding of thermoplastics 09 p1292 N84-18437
TICA (Torsion Impregnated Cloth Analysis) study of high-temperature thermoplastics
[AD-A137048] 10 p1468 N84-19586
Hot melt adhesive pad surface attachment assembly concept for on-orbit operations
[NASA-TM-85771] 12 p1777 N84-21598
Development of an impact- and solvent-resistant thermoplastic composite matrix
[NASA-CR-172285] 12 p1789 N84-21668
Ethynyl and substituted ethynyl-terminated polysulfones
[NASA-CASE-LAR-12931-1] 13 p1982 N84-22747
Development of a method for wear measurement of thermoplast journal bearings
[OEFZS-4271] 18 p2849 N84-28093
Rapid adhesive bonding concepts
[NASA-TM-86256] 20 p3145 N84-29968
Crystalline-state extrusion of low density polyethylenes
[AD-A142017] 20 p3161 N84-30075

Fluorothermoplastics for long life, weatherproof composites
[BMFT-FB-T-84-082] 20 p3164 N84-30096
Characterization of polyethersetherketone and other engineering thermoplastics
[DE84-010688] 23 p3725 N84-33603

THERMOPLASTICITY
Variational principles in thermoplasticity. Part 1: Heat transfer and plasticity
[RUB-IFM-MITT-33-PT-1] 10 p1490 N84-19740
Finite element investigations of thermo-elastic and thermo-plastic consolidation 11 p1667 N84-20875
Thermoset-thermoplastic aromatic polyamide containing N-propargyl groups
[NASA-CASE-LAR-12723-2] 13 p1962 N84-22746
Extension of finite element programs to thermoelastoviscoplastic domains
[CETIM-11-A-102] 21 p3424 N84-31716
Thermal degradation studies of segmented thermoplastic elastomers
[AD-A143954] 23 p3724 N84-33600
The effect of thermomechanical coupling in the case of a thick-wall sphere and tube subjected to internal pressure
[ISSN-0208-5658] 23 p3759 N84-33823

THERMORECEPTORS
Effects of adaptation to hot climate on thermoreception 18 p2896 N84-26375

THERMOREGULATION
Gravitational study of the central nervous system 02 p0263 N84-11730
Mathematical simulation of diver performance
[AD-A133844] 05 p0713 N84-14671
Heat exchange following atropine injection before and after heat acclimation
[AD-A132618] 06 p0890 N84-15780
Autonomic influences on peripheral circulatory and thermal responses to cold
[AD-A134444] 08 p1201 N84-17831
Set-point changes in hierarchically-arranged thermogenic systems 09 p1355 N84-18853
Hyper-gravitational effects on metabolism and thermoregulation 09 p1358 N84-18871
Thermoregulation: Long-term microwave effects
[AD-A140844] 17 p2745 N84-27432
Criteria of human cold adaptation 18 p2897 N84-26381
Dynamics of functional status and subjective sensations in process of heat adaptation 21 p3456 N84-31931
Mechanisms of thermoregulation of rats exposed to hypergravic fields 22 p3628 N84-32969

THERMOSETTING RESINS
NT EPOXY RESINS
NT FURAN RESINS
NT KEVLAR (TRADEMARK)
NT NYLON (TRADEMARK)
NT PHENOLIC EPOXY RESINS
NT PHENOLIC RESINS
NT POLYAMIDE RESINS
Processing science for AS/3501-6 carbon/epoxy composites
[AD-A132323] 04 p0506 N84-13316
Welding of thermoplastics 09 p1292 N84-18437
Flexible substrate for printed wiring
[NASA-TM-77459] 10 p1451 N84-19478
Hot melt adhesive pad surface attachment assembly concept for on-orbit operations
[NASA-TM-85771] 12 p1777 N84-21598
Britain's ICI develops new easy-to-shape composites 14 p2118 N84-23695
An investigation into the injection molding of PMR-15 polyimide
[NASA-CR-173550] 15 p2301 N84-24810
Roll-trusion (RT*) of composite structures
[AD-A140838] 17 p2618 N84-26757
Characterization of filament wound Kevlar and glass composites for rocket motor applications 20 p3142 N84-29949
Rapid adhesive bonding concepts
[NASA-TM-86256] 20 p3145 N84-29968
A theoretical study of resin flows for thermosetting materials during prepreg processing
[NASA-CR-172442] 23 p3724 N84-33596

THERMOSIPHONS
A blowup phenomenon of the working fluid in a two-phase closed thermosyphon 20 p3169 N84-30122
Research and development of long heat pipes and their applications — heating road surfaces on bridges 20 p3170 N84-30126

THERMOSPHERE
NT TURBOPAUSE
Some characteristics of midlatitude F layer storms generated by thermosphere-plasmasphere coupling processes 02 p0251 N84-11645
Properties of the neutral density and composition in the thermosphere
[AD-A131557] 03 p0407 N84-12685
OI 630.0 nm optical measurements of neutral winds, temperatures and airglow enhancements during the BIME program
[AD-A131695] 03 p0408 N84-12671
A new model of the geomagnetic variation in the upper atmosphere
[AD-A135210] 08 p1187 N84-17733
Vertical and horizontal phase propagation in the mesopause region observed by the OI5577 angstrom, O/sub 2 atmospheric band, NaD and OH(8,3) band nightglow emissions
[INPE-3022-PRE/460] 12 p1846 N84-22035
Investigation of thermospheric winds relative to space station orbital altitudes
[NASA-TM-82577] 15 p2371 N84-25220
Coupling between the thermosphere and the stratosphere: The role of nitric oxide
[AERONOMICA-ACTA-A-270-1983] 16 p2520 N84-26175
Evaluations of coefficient of vertical exchange in lower thermosphere 18 p2864 N84-28185
A three-dimensional dynamical-chemical model of the mesosphere and lower thermosphere for upper atmospheric research
[AD-A142200] 19 p3054 N84-29379
Quasi-two-day variation of lower thermosphere wind velocities 20 p3224 N84-30488
Empirical studies of upper atmospheric species
[NASA-CR-172437] 21 p3443 N84-31847
Atomic carbon in the Venus thermosphere: Observations and theory 21 p3525 N84-32332
Dynamic model of the Earth's upper atmosphere
[NASA-CR-3835] 22 p3624 N84-32965
Ground-based observations of equatorial thermosphere dynamics with a Fabry-Perot interferometer
[NASA-CR-174005] 24 p3933 N84-34897

THERMOSTABILITY
U THERMAL STABILITY

THERMOSTATS
Thermostatic fine control valves mounted on the radiators in district heating systems
[BMFT-FB-T-83-169] 07 p1012 N84-16568

THERMOTROPISM
U ANISOTROPY
U TEMPERATURE EFFECTS

THERMOVISCOELASTICITY
Research and development program for the development of advanced time-temperature dependent constitutive relationships. Volume 2: Programming manual
[NASA-CR-168191-VOL-2] 01 p0094 N84-10614
Hygrothermal effects in continuous fibre reinforced composites. Part 4: Mechanical properties 2 - fatigue and time-dependent properties
[AD-A135766] 09 p1276 N84-18333
Computational method for thermoviscoelasticity with application to rock mechanics
[DE84-003087] 20 p3242 N84-30585

THESAURI
Enhancing effectiveness of information retrieval systems with relational thesauri 11 p1747 N84-21399
Medlars indexing instructions, tumar key supplement, 1984 (Technical Notes)
[PB84-120039] 11 p1750 N84-21424
NASA Thesaurus supplement. Part 1: Hierarchical listing
[NASA-SP-7051(SUPPL-1)] 13 p2066 N84-23396

THETA PINCH
Radial plasma measurements and calculations in the center of a 3-meter laser-heated theta pinch
[DE83-015545] 01 p0150 N84-10969
Fluctuations in 3 Los Alamos experiments
[DE83-014156] 01 p0151 N84-10994
Studies of CO2 laser interactions with plasma
[DE84-012485] 20 p3307 N84-31004

THIAZINE (TRADEMARK)
Thiazine dyes for use in photogalvanic cells
[DE84-009097] 15 p2330 N84-24990

THICK FILMS
Development of nondestructive full-test requirements for gold wires on multilayer thick-film hybrid microcircuits
[DE83-014368] 01 p0093 N84-10602
MM and T: Ceramic metal substrates for hybrid electronics
[AD-A132514] 04 p0505 N84-13313
Effects of particle size distribution in thick film conductors 12 p1839 N84-21991
Particle size effects on viscosity of silver pastes: A manufacturer's view 12 p1839 N84-21992
Polymer thick-film conductors and dielectrics for membrane switches and flexible circuitry 12 p1840 N84-21994
Generic specification for hybrid microcircuits
[ESA-PSS-01-608-ISSUE-1] 16 p2484 N84-25931
Development of an all-metal thick film cost effective metallization system for solar cells
[NASA-CR-173760] 19 p3049 N84-29350
Axial-conductances angular filter investigation
[AD-A142602] 21 p3366 N84-31487

THICK PLATES
Three-dimensional analysis of composite plates with material nonlinearity
[AD-A131884] 03 p0347 N84-12258
Propagating plane harmonic waves through finite length plates of variable thickness using finite element techniques 06 p0660 N84-15601
Large plate CdTe synthesis by sealed vessel transport
[AD-A137514] 10 p1588 N84-20409
Defect sizing using the time of flight technique on the RNL RSV plate
[ND-R-790(R)] 18 p2850 N84-28099
Vibrations and stability of thick plates 24 p3958 N84-35059
Post-buckling of initially stressed thick plates 24 p3958 N84-35060

THICK WALLS
A functional stress intensity approach to multiply cracked, partially autofrettaged cylinders
[AD-A135345] 08 p1170 N84-17825
Stress intensity factors in a reinforced thick-walled cylinder
[NASA-CR-172307] 11 p1668 N84-20879
Solving statics problems of thick-walled cylindrical shells with loose contact between layers 13 p1973 N84-22805
Thick-wall Kevlar 49/epoxy pressure vessels
[DE84-003102] 14 p2120 N84-23707
A simple approach for determination of bursting pressure of a thick-walled cylinder
[AD-P002956] 14 p2199 N84-24196
On the analysis of thick walled composite material cylindrical shells 15 p2311 N84-24867
Pressure induced radial diffusion of a fluid through a thick walled highly elastic cylinder 15 p2313 N84-24881
Investigation of parameters influencing the deflection of a thick wall jet by a thin wall jet coflowing over a rounded corner
[AD-A142773] 21 p3325 N84-31099

THICKENERS (MATERIALS)
Phase and compression behavior in sedimentation and thickening of liquid-solid suspensions
[PB83-249664] 04 p0496 N84-13257
Thickener/fluid interaction in lubricating greases
[AD-A142276] 20 p3161 N84-30076

THICKNESS
High-resolution electron-microscopy studies of native oxide on silicon
[DE83-014794] 01 p0155 N84-11018
Corrosion of underground pipe
[PB83-243923] 02 p0198 N84-11289
Analysis of interlaminar stresses in thick composite laminates with and without edge delamination
[NASA-TM-85738] 06 p0798 N84-15201
Composite laminate weight optimization on the HX-20
[AD-A133490] 06 p0799 N84-15207
An experimental investigation of the structure of a turbulent reattaching flow behind a backward-facing step 06 p0832 N84-15415
Eddy current thickness gauge for reel-to-reel tape processes
[DE84-004050] 08 p1162 N84-17567
Stabilization of thickness of zinc coating by adaptive system of control
[BLL-M-35387-(5828.4)] 09 p1281 N84-18364
Pyrotechnic shock test and test simulation 10 p1508 N84-19673
Transition of corner cracks at holes into through-the-thickness cracks
[AD-A136922] 10 p1517 N84-19933
A method for computing the leading-edge suction in a higher-order panel method
[NASA-CR-3730] 11 p1600 N84-20479
Mechanics of projectile impact against thin plates
[AD-A138494] 12 p1823 N84-21882
New theory for thick, composite-material rings
[AD-A138538] 13 p2001 N84-22981
Morphology of buried craters: Lava thickness estimates by simulated flooding 13 p2079 N84-23471
Examination of frontal development during a dry forward combustion
[DE84-008304] 15 p2288 N84-24726
Analysis of airborne electromagnetic systems for mapping thickness of sea ice
[AD-A139786] 15 p2373 N84-25235
Unsteady Flow in Turbomachines, volume 1
[VKI-LS-1984-02-VOL-1] 16 p2488 N84-25960

Investigation of ice dynamics in the marginal ice zone
[AD-A136558] 17 p2737 N84-27387
Optical constant determination of thin films condensed on transmitting and reflecting substrates
[AD-A140845] 17 p2768 N84-27578
Composite laminates with negative through-the-thickness Poisson's ratios
[NASA-CR-173681] 18 p2809 N84-27830
The use of satellite observed cloud patterns in Northern Hemisphere 300 mb and 1000/300 mb numerical analysis
[AD-A141215] 18 p2889 N84-28340
An optical technique for assessing the long-term accuracy of lateral extensometers
[NPL-DMA(A)-78] 19 p3026 N84-29190
The effect of thickness on fatigue crack propagation in 7475-T731 aluminum alloy sheet
[NASA-CR-172367] 19 p3035 N84-29251
Narrow-seam laser welding of components of low thickness 23 p3709 N84-33514
Some preliminary results of ionospheric slab thickness observations at Lunping 24 p3956 N84-35045

THICKNESS RATIO
Fracture behavior of thick, laminated graphite/epoxy composites
[NASA-CR-3784] 11 p1627 N84-20648
Aerodynamic characteristics of 2 NASA supercritical airfoils with different maximum thickness
[NASA-TM-X-2532] 18 p2784 N84-27667
The effect of section thickness on the fatigue performance of simple welded joints — offshore structures
[ND-R-941(S)] 18 p2852 N84-28107

THIN AIRFOILS
NT INFINITE SPAN WINGS
NT THIN WINGS

THIN BODIES
Multi-transition stamping of components with thin body and tall stiffening ribs
[BLL-M-35384-(5828.4)] 08 p1140 N84-17415

THIN FILMS
NT ENERGY ABSORPTION FILMS
NT FERROMAGNETIC FILMS
NT MONOMOLECULAR FILMS
Structure and properties of polymers and organosilanes adsorbed onto oxidized aluminum and titanium
[AD-A130753] 01 p0050 N84-10321
Microwave interaction with thin multiple conductive coatings
[AD-A131091] 01 p0067 N84-10435
Thin-film guided-wave devices for integrated/fiber optic signal processing and communications
[AD-A129582] 01 p0152 N84-11001
Polyimides for use in integrated circuits
[DE83-016769] 02 p0201 N84-11310
Amorphous silicon-carbon films
[DE83-018077] 03 p0347 N84-12259
Photothermal displacement spectroscopy of surfaces and thin films
[DE83-015957] 03 p0350 N84-12279
Corrosion resistant coating
[NASA-CASE-NPO-15928-1] 03 p0352 N84-12289
Thin film strain transducer — in-flight monitoring of balloon film strain
[US-PATENT-APPL-SN-526770] 03 p0376 N84-12448
Laser activated MTOS microwave device
[NASA-CASE-NPO-16112-1] 03 p0378 N84-12463
Damage thresholds of thin film materials and high reflectors at 248 nm
[DE83-012663] 03 p0380 N84-12472
Novel techniques for enhanced reflectivity infrared mirrors
[AD-A131924] 03 p0441 N84-12894
Novel method for the study of optical properties of surfaces
[DE83-012899] 03 p0441 N84-12895
Fabrication and properties of multilayer structures
[AD-A131934] 03 p0451 N84-12969
The study of thin films on semi-insulating gallium arsenide by ellipsometry
[AD-A131844] 03 p0452 N84-12972
Growth and characterization of InP and InGaAs films using the hydride VPE technique
[AD-A131841] 03 p0452 N84-12973
A program of research on microfabrication techniques for VLSI magnetic devices
[AD-A131706] 03 p0452 N84-12978
Phonon-induced enhancements of the energy gap and critical current in superconducting aluminum
[DE83-015210] 03 p0455 N84-12996
The effect of the structure of metallo-organic complexes on the electrolytic precipitation of titanium and niobium from nonaqueous electrolytes
[BLL-OA-TRANS-3070-(6196.3)] 04 p0497 N84-13259
Plasma polymerized high energy density dielectric films for capacitors
[NASA-CR-168233] 04 p0505 N84-13310
Superconducting niobium thin film slow-wave structures 04 p0518 N84-13405
Deposition of cesium iodide on papylene
[DE83-017839] 04 p0605 N84-13992
Fast, self-nulling spectroscopic ellipsometer: Instrumentation and application, revision
[DE83-015531] 04 p0605 N84-13994
Magnetic properties of Mo/Ni superlattices
[DE84-000568] 04 p0614 N84-14053
X-ray fluorescence analysis for barium, zinc, calcium and phosphorus in oil additives
[MRL-TN-475] 05 p0648 N84-14249
X-ray fluorescence determination of sulphur in oils by a thin film method
[MRL-TN-474] 05 p0648 N84-14250
Thin-layer solar cells made of amorphous silicon
[MBB-UA-664-82-OE] 05 p0698 N84-14584
Proceedings of the US Department of Energy Photovoltaics Program Annual Review
[DE83-010325] 05 p0699 N84-14589
Study of the physics of insulating films as related to the reliability of metal-oxide semiconductor devices
[AD-A133674] 05 p0754 N84-14944
Microwave dynamics of quasiparticles and critical fields in superconducting films 05 p0756 N84-14961
European Scientific Notes, volume 37, number 8
[AD-A133938] 05 p0759 N84-14977
Nonlinear viscoelastic characterization of structural adhesives
[NASA-CR-172279] 06 p0809 N84-15288
Experience in surface analysis applied to technical material problems 06 p0815 N84-15303
The use of Auger electron spectroscopy and ellipsometry in the study of corrosion inhibition 06 p0815 N84-15307
A new non-destructive and standardless method for the thickness determination of thin films by XRF measurement 06 p0815 N84-15308
The influence of weakly polarized surfaces on different kinds of thin layer systems 06 p0815 N84-15309
Progress in polycrystalline thin-film solar cells
[DE83-012131] 06 p0875 N84-15691
Photothermal spectroscopy using a pyroelectric thin film detector
[AD-A134291] 07 p0969 N84-16281
Development and demonstration of a spiral-wound thin-film composite membrane system for the economical production of oxygen-enriched air, phases 1, 2 and 3
[DE84-002918] 07 p0972 N84-16298
Fabrication of Schottky barrier detectors on thin films of PbSSe
[AD-A134310] 07 p1060 N84-17020
Solid State Photovoltaics Research Branch
[DE84-000022] 07 p1063 N84-17043
Deposition of polymer films on metal by the electrolysis of aqueous solutions of vinyl monomers
[BLL-LTS-1200/83-(5828.4F)] 08 p1136 N84-17386
The ball bearing as a rheological test device
[NASA-TM-83570] 08 p1166 N84-17591
A study of nucleation and growth of thin films by means of computer simulation: General features
[NASA-TM-83559] 08 p1222 N84-17982
Film synthesis and new superconductors
[AD-A135102] 08 p1234 N84-18068
Ion beam assisted deposition of SiO2
[AD-A136247] 09 p1278 N84-18342
Ohmic contacts, irradiation effects, and thin film growth of GaAs and Al sub 1-x Ga sub x As
[NASA-CR-173257] 09 p1393 N84-19096
Thermal diffusivity in thin films measured by noncontact single-ended Pulsed-Laser-Induced thermal radiometry
[AD-A135991] 09 p1396 N84-19116
Theoretical-experimental analysis of the effects of grain boundaries on the electrical properties of SOI (Silicon-On-Insulator) MOSFETS
[AD-A136975] 10 p1486 N84-19718
Degradation of evaporated aluminum films for solar reflections
[DE84-005341] 10 p1530 N84-20021
Coaxial carbon plasma gun deposition of amorphous carbon films
[NASA-TM-83600] 10 p1587 N84-20404
Growth of HgCdTe by modified molecular beam epitaxy
[AD-A137243] 10 p1588 N84-20407
Thin film technology of high-critical-temperature superconducting electronics
[AD-A136722] 10 p1589 N84-20411
Frictional and morphological properties of Au-MoS2 films sputtered from a compact target
[NASA-TM-83604] 11 p1664 N84-20858
The growth and characterization of single crystal (Cd, Zn)S thin films relevant to the study of the (Cd, Zn)S/Cu/sub x/S photovoltaic cell
[DE84-003266] 11 p1745 N84-21385
Surface plasmon-enhanced Raman scattering at thin silver films
[AD-A138321] 12 p1793 N84-21691
The potential dependence of surface plasmon-enhanced second harmonic generation at thin film silver electrodes
[AD-A138322] 12 p1793 N84-21692
Photodeposition of nitride insulators on 3-5 substrates
[NASA-CR-173393] 12 p1797 N84-21720
Diffusion barriers 12 p1839 N84-21967
Transparent conductive coatings 12 p1840 N84-21999
Techniques of flash radiometry
[AD-A138412] 12 p1908 N84-22427
Large aperture optical switching devices
[DE84-005126] 12 p1908 N84-22433
Ferroelectric tungsten bronze bulk crystals and epitaxial thin films for electro-optic device applications
[AD-A138693] 13 p2046 N84-23278
Nature of the surface and its effect on solid-state interactions 14 p2152 N84-23894
Photoacoustic imaging
[AD-A139296] 14 p2224 N84-24350
Room-temperature thermal optical bistability in thin-film interference filters and dye-filled etalons 14 p2234 N84-24402
Optical bistability in nonlinear media an exact method of calculation 14 p2236 N84-24414
Vacuum-deposited thin-film interferometers as bistable devices operating continuously at room temperature 14 p2241 N84-24453
Chemical modification of surfaces: The effect of potassium on the chemisorption of molecules on transition metal crystal surfaces
[DE84-006345] 14 p2244 N84-24473
Balloon materials degradation (S1006) 15 p2273 N84-24646
Attempt at dust debris collection with stacked detectors (A0138-2) 15 p2276 N84-24668
Thin metal film and multilayers experiment (A0138-3) 15 p2278 N84-24680
Practical applications and uses of solid lubricant films 15 p2342 N84-25056
Sputtering as a technique for applying tribological coatings 15 p2342 N84-25059
Technical use of solar energy. Part 1. Thin films solar cells
[BMFT-FB-T-83-296-PT-1] 15 p2362 N84-25172
Materials research for advanced inertial instrumentation. Task 2: Gas bearing material development
[AD-A140435] 16 p2446 N84-25680
Interface formation in physically deposited films
[MLM-3089] 16 p2470 N84-25827
Generic specification for hybrid microcircuits
[ESA-PSS-01-608-ISSUE-1] 16 p2484 N84-25931
Laser Induced Damage in Optical Materials: 1982
[PB84-175124] 16 p2498 N84-26025
Variable transmittance electrochromic windows 16 p2517 N84-26158
Optics and materials research for controlled radiant energy transfer in buildings 16 p2517 N84-26159
Preparation of thin amorphous silicon films for thin film solar cells
[BMFT-FB-T-84-018] 16 p2518 N84-26166
Corrosion behavior of ion plated films 17 p2621 N84-26777
Sputtered coatings for protection of spacecraft polymers
[NASA-TM-83706] 17 p2626 N84-26803
Noise of 1/f form in polycrystalline aluminum films 17 p2633 N84-26843
Thin film models of SMSI (Show Strong Metal-Support Interactions) catalysts: Pt on oxidized titanium
[AD-A140569] 17 p2767 N84-27572
Optical constant determination of thin films condensed on transmitting and reflecting substrates
[AD-A140845] 17 p2768 N84-27578
Spectral dependence of magnetoresistivity in heterophase photoconductors based on CdSe 18 p2825 N84-27935
Thin film strain transducer
[NASA-CASE-WLP-10055-1] 18 p2838 N84-28015
Microcrystalline silicon growth for heterojunction solar cells
[NASA-CR-173751] 18 p2869 N84-28215
Integrating IR detector imaging systems
[NASA-CASE-NPO-15805-1] 18 p2932 N84-28590
Experimental study of the thermodynamics of thin films and surfaces
[DE84-010361] 18 p2943 N84-28660
Deposition of diamondlike carbon films
[NASA-CASE-LEW-14080-1] 19 p2996 N84-28966

High density circuit technology
[NASA-CR-162041] 19 p3012 N84-29091
Semiconductor multipactor device
[AD-D011067] 19 p3017 N84-29125
Precision clock generators in Ta thin film technology
[BMFT-FB-T-84-073] 19 p3019 N84-29144
Research directions and progress in SERI advanced high efficiency concepts program 19 p3046 N84-29325
Development of GaAs/Si and GaAs/Si monolithic structures for future space solar cells 19 p3046 N84-29327
High-efficiency solar cells fabricated by vacuum MO-CVD 19 p3047 N84-29329
Interactions between volume and surface EM waves in layered structures 19 p3047 N84-29331
Laser-assisted solar cell metallization processing
[NASA-CR-173763] 19 p3050 N84-29355
Pulsed-laser generation of ultra-short acoustic pulses: Application for thin-film ultrasonic measurements
[AD-A141874] 19 p3100 N84-29690
Superconducting electronic film structures
[AD-A141113] 19 p3110 N84-29760
Fabrication of biaxially oriented films via poly(p-phenylene terephthalamide)/H2SO4 liquid crystalline dopes
[AD-A141755] 19 p3111 N84-29764
Study of mechano-chemical machining of ceramics and the effect on thin film behavior
[AD-A142542] 20 p3162 N84-30060
Remarks on thermal analyses of thin 4He films in superfluid heat pipe 20 p3169 N84-30121
Characterization of micron-sized, optical coating defects by photothermal deflection microscopy
[DE84-011150] 20 p3301 N84-30960
Energy-resolving carbon resistance probes for plasma edge characterization
[DE84-012235] 20 p3306 N84-30997
Electrochromic materials for the regulation of solar energy transmission through windows
[DE84-012165] 20 p3311 N84-31029
Use of surface and thin film analysis techniques to study metal-organic and metal-polymer interaction
[DE84-012542] 21 p3361 N84-31321
Dual ion beam deposition of carbon films with diamondlike properties
[NASA-TM-83743] 21 p3390 N84-31512
Formation of silicide contacts using codeposited refractory metals alloy films
[AD-A142879] 21 p3391 N84-31519
SERI photovoltaics advanced research and development: FY 1983 accomplishments
[DE84-004493] 21 p3434 N84-31789
Nonequilibrium segregation and phase instability in alloy films during elevated-temperature irradiation in a high-voltage electron microscope
[DE84-013423] 21 p3505 N84-32214
Rectangular heat source on a semi-infinite solid: An analysis of a thin film heat flux gage
[DE84-012234] 22 p3599 N84-32796
The chemical and physical changes on lubricated surfaces 22 p3602 N84-32820
CdS/CuInSe2 heterojunction cell research
[DE84-004508] 22 p3618 N84-32926
The proximity effects of superconducting multilayer film
[AD-A143255] 22 p3662 N84-33217
Electron localization and superconductivity of very thin epitaxially grown ag films on ge(001)
[AD-A143469] 22 p3663 N84-33224
Mechanisms involved in the glow-discharge deposition of doped hydrogenated amorphous silicon
[DE84-013124] 22 p3665 N84-33236
Local electronic properties of semiconductor surfaces and interfaces
[DE84-013608] 22 p3666 N84-33239
Glass heating panels and method for preparing the same from architectural reflective glass
[NASA-CASE-NPO-15753-1] 23 p3723 N84-33569
Second harmonic generation at thin film silver electrodes via surface polaritons
[AD-A143597] 23 p3824 N84-34254
Thin-film photovoltaic research and development program of the Solar Energy Research Institute
[SERI/TP-211-2125] 23 p3829 N84-34290
Thermal physics of plasma atomization onto fiber materials 24 p3873 N84-34544
Solid state batteries, literature survey, analysis of pertinent results and prospective for further research
[AD-A144252] 24 p3897 N84-34679
Magnetic record support
[NASA-TM-77619] 24 p3902 N84-34709
Interfacial reactions of nickel and cobalt thin films on silicon 24 p3959 N84-35064
Epitaxial thinning process
[NASA-CASE-NPO-15788-1] 24 p3966 N84-35112
Synthesis and characterization of superconducting electronic materials
[AD-A144137] 24 p3966 N84-35116
Photothermal analysis of thin films
[AD-A144472] 24 p3967 N84-35120

THIN LAYER CHROMATOGRAPHY
Multi-detector gel permeation chromatography and its application to the analysis of industrial samples
[MCAD-808] 03 p0351 N84-12283
PETN homolog analysis and large-scale preparation of pure PETN homologs by High-Performance Liquid Chromatography (HPLC)
[DE84-002169] 07 p0972 N84-16300
Contributions towards analytical chromatography
[BLL-M-29666-(5828.4)] 24 p3880 N84-34579

THIN PLATES
Orthotropic hole element 06 p0859 N84-15595
Propagation of flexural and membrane waves with fluid loaded NASTRAN plate and shell elements 06 p0860 N84-15602
Bending elasticity of circularly notched bars as monolithic flexure hinges in precision mechanisms
[DE84-002199] 06 p0861 N84-15612
Fatigue crack growth in aluminum alloy sheet material under constant amplitude and simplified flight simulation loading
[VTH-LR-381] 10 p1484 N84-19561
Nonlinear vibrations of plates: A review 10 p1505 N84-19642
An accurate and economical plate-bending hybrid finite element 11 p1712 N84-21163
Linear and nonlinear finite elements
[AD-A138468] 12 p1895 N84-22341
A discrete-element analysis for large deflection of thin plates: A combined effect of geometric and material nonlinearities 13 p2003 N84-22995
The effect of creep on the residual stresses generated during silicon sheet growth 18 p2938 N84-28634
Hybrid stress reduced-Mindlin elements for thin multilayer plates with application to edge contact problems 22 p3608 N84-32857

THIN WALLED SHELLS
Nonlinear analysis of thin shells by the hybrid mixed finite-element method 06 p0856 N84-15578
Unified operator description, nonlinear buckling and post-buckling analysis of thin elastic shells
[RUB-IFM-MITT-34] 06 p0857 N84-15582
Propagation of flexural and membrane waves with fluid loaded NASTRAN plate and shell elements 06 p0860 N84-15602
Flexibilities of and stresses in thin unpressurised pipe bends with flanged ends under in-plane bending: Influence of bend angle
[ESDU-81041] 07 p1015 N84-16581
A testing machine for statistical analysis of small imperfect shells, part 1
[VTH-LR-357-PT-1] 10 p1518 N84-19938
Stressed-strained state of flanged shells under heavy thermal load beyond elastic limit 13 p1972 N84-22800
Formulation of stiffness matrices for elastic buckling of thin-walled open section prismatic columns
[TT-8402] 20 p3204 N84-30353
Electroless-plating technique for fabricating thin-wall convective heat-transfer models
[NASA-TP-2349] 21 p3399 N84-31561
NONAX-TRANAX-CASTOR 2D — structural analysis programs
[CETIM-100940] 21 p3424 N84-31721

THIN WALLS
A thin-walled beam finite element
[TT-8302] 03 p0425 N84-12779
Wave propagation in a thin walled liquid filled initially stressed tube — blood flow
[MEAH-24] 07 p1005 N84-16519
Approximation dispersion equations for thin walled liquid filled tubes — blood flow
[MEAH-25] 07 p1005 N84-16520
Radomes for flight vehicles
[AD-A140174] 16 p2483 N84-25920
Investigation of parameters influencing the deflection of a thick wall jet by a thin wall jet coflowing over a rounded corner
[AD-A142773] 21 p3325 N84-31099
Oscillations of elastic airplane due to wind gust 21 p3485 N84-32087

THIN WINGS
NT INFINITE SPAN WINGS
Solution of Poisson equations for 3-dimensional grid generations — computations of a flow field over a thin delta wing
[NASA-TM-85857] 04 p0588 N84-13886
Doublet point method for calculations on oscillatory lifting surfaces. Part 1: Subsonic flow
[NAL-TR-781-PT-1] 09 p1251 N84-18168
Vortex flap system for thin wings
[MBB-FE-122/S/PUB/102] 16 p2582 N84-26435

THINNERS
U SOLVENTS

THIOLS
Cyclic voltammetry of polysulfide (Thiokol) prepolymers and related compounds
[MRL-R-911] 08 p1136 N84-17387
Nonenzymatic formation of energy-rich lactoyl and glyceroyl thioesters from glyceraldehyde and a thiol
[NASA-CR-173633] 17 p2617 N84-26748

THOMAS-FERMI MODEL
Some investigations about the Carson opacities
[DE84-003785] 09 p1415 N84-19262

THOMAS-FERMI THEORY
U THOMAS-FERMI MODEL

THOMSON EFFECT
U THERMOELECTRICITY

THOMSON SCATTERING
Thomson-scattering measurements of electron temperature and density in a plasma channel created by a relativistic electron beam
[DE84-000356] 04 p0597 N84-13940
Laser light scattering at the POSEIDON plasma focus device 10 p1584 N84-20384
Space resolved absolutely calibrated VUV spectroscopic measurements on CTX
[DE84-007490] 20 p3304 N84-30984
Confinement time and energy balance in the CTX spheromak
[DE84-007492] 20 p3304 N84-30987
Studies of CO2 laser interactions with plasma
[DE84-012485] 20 p3307 N84-31004
Thomson backscattering from an intense relativistic electron beam as a diagnostic for a free electron laser
[AD-A143027] 21 p3409 N84-31623
A new model of Raman spectra in laser produced plasma
[DE84-009625] 21 p3501 N84-32188

THORAX
The development of a bidirectional multi-speed impact model of the adult human thorax 16 p2535 N84-26273

THORIUM
Impurities in the heavy-Fermion superconductor UBe13
[DE84-001731] 05 p0755 N84-14951
Surface contamination from actinide solutions
[AERE-R-11046] 18 p2816 N84-27879

THORON
U RADON ISOTOPES

THREADS
Cold-form tapping of internal threads 09 p1292 N84-18435
Novel technological solutions to treatment of threads in micrometric measuring tools 17 p2641 N84-26900

THREAT EVALUATION
Integrating multi-objective optimization methodologies in BMD technology
[AD-A136161] 09 p1383 N84-19036
The research of National Defence's (FOA) future policy document on space technology
[FOA-A-30034-E1] 15 p2265 N84-24602

THREE AXIS STABILIZATION
Decoupled control analysis of a large flexible space antenna with linear quadratic regulator comparisons
[NASA-TP-2293] 14 p2115 N84-23675
Differential equations for movement of triaxial gyroscopic stabilizer on moving base 21 p3488 N84-32107

THREE BODY PROBLEM
Minimal unitary (covariant) scattering theory
[DE83-014896] 03 p0435 N84-12849
Covariant theory with a confined quantum
[DE83-014897] 03 p0435 N84-12850
Splines and the Galerkin method for solving the integral equations of scattering theory
[CSIR-TWISK-267] 04 p0586 N84-13873
Three-dimensional, periodic halo orbits in the restricted three-body problem 06 p0793 N84-15167
A topological version of a theorem of Mather on twist maps
[AD-A137950] 11 p1716 N84-21189
Configuration space Faddeev calculations
[DE84-006492] 11 p1730 N84-21289
Interactive computer graphic surface modeling of three-dimensional solid domains for boundary element analysis 12 p1873 N84-22208
Interactive wire-frame ship hullform generation and display 12 p1874 N84-22209
Investigations of the structure and electromagnetic interactions of few body systems
[DE84-006852] 12 p1902 N84-22388
Periodic and quasi-periodic motions in triple stellar systems 19 p3117 N84-29807

An equality which yields zero velocity surfaces
19 p3117 N84-29810
Numerical integration with Lie-series
19 p3118 N84-29814
Qualitative study of the planar isosceles three-body problem
[PREPRINT-35] 20 p3133 N84-29696
Computer simulation of surface and film processes
[NASA-CR-173682] 21 p3419 N84-31662
Intermediate-energy nuclear theory — nucleon-nucleon theory, three-dadron systems, hadron form factors, and Dirac particles
[DE84-012971] 22 p3654 N84-33161

THREE DIMENSIONAL BOUNDARY LAYER
Numerical solution of the two-phase, three dimensional boundary layer in laminar film condensation over a curved surface 03 p0375 N84-12442
Three-dimensional effects on airfoils
[NASA-TM-77025] 06 p0781 N84-15118
Computations of projectile magnus effect at transonic velocities
[AD-A133212] 06 p0783 N84-15127
Three-dimensional turbulent boundary layers in turbomachines 06 p0838 N84-15460
Some notes on 3-dimensional turbulent boundary layer data and turbulence modeling
[NLR-MP-82007-U] 06 p0845 N84-15513
Computing the three dimensional boundary layer in a compressor 07 p0956 N84-16200
Boundary layer development on rotating bodies of revolution 07 p0957 N84-16204
Experimental and theoretical studies of parietal viscous boundaries in a single stage transonic compressor
07 p0957 N84-16206
Three-dimensional turbulent boundary layer on a body of revolution at incidence
[AD-A135454] 08 p1158 N84-17539
Three-dimensional boundary layer calculations on wings, starting from the fuselage
[NLR-MP-82060-U] 09 p1317 N84-18603
Three dimensional/boundary layer interaction: Laminar and turbulent behaviour
[AD-A137060] 10 p1493 N84-19765
Excitation of Tollmin-Schlichting waves in boundary layer at vibrating surface of infinite-span sweptback wing
13 p1971 N84-22792
Scaling and modeling of three-dimensional, end-wall, turbulent boundary layers
[NASA-CR-3792] 16 p2485 N84-25941
Three-dimensional laminar separation
[AD-A140378] 16 p2493 N84-25993
Method of calculating strong viscous interaction at delta wing 17 p2644 N84-26918
Viscous-inviscid interaction method including wake effects for three-dimensional wing-body configurations
[NASA-TP-1910] 16 p2786 N84-27682
COSAL: A black-box compressible stability analysis code for transition prediction in three-dimensional boundary layers
[NASA-CR-165925] 16 p2836 N84-28002
The Goertler vortex instability mechanism in three-dimensional boundary layers
[NASA-CR-172370] 19 p3021 N84-29158
Development of a self-adapted error-controlled difference method to solve the three-dimensional laminar incompressible boundary layer equations by numerically given contours determined by points
[REPT-24/83] 19 p3025 N84-29186

THREE DIMENSIONAL COMPOSITES
Multiplane finite element method: Applications to fiber reinforced material 03 p0348 N84-12261
Axial test methods development for 3-D cylindrical-weave carbon-carbon composite materials
[AD-A138221] 12 p1790 N84-21672
Nonlinear analysis of laminated, bimodular composite material structures
[AD-A139942] 15 p2285 N84-24714
A 3-dimensional finite element analysis of delamination growth in composite laminates. Part 1: The energy methods and case-study problems
[AD-A141248] 18 p2810 N84-27838

THREE DIMENSIONAL FLOW
NT SECONDARY FLOW
LANN (Lockheed, AFWAL, NASA-Langley and NLR) wing test program: Acquisition and application of unsteady transonic data for evaluation of three-dimensional computational methods
[NASA-CR-174466] 01 p0005 N84-10032
Viscous shock-layer predictions of three-dimensional nonequilibrium flows past the space shuttle at high angle of attack 01 p0024 N84-10151
Numerical simulation of flow around a three-dimensional turret
[AD-A128686] 01 p0078 N84-10507
Computation of three-dimensional flows in ducts of varying cross sections
[AD-A130194] 01 p0078 N84-10509
A local existence and uniqueness theorem for a K-BKZ-fluid
[AD-A130503] 01 p0131 N84-10861
Variational method for the three-dimensional inverse-equilibrium problem in toroids: Part 2
[DE83-012925] 01 p0149 N84-10981
Three-dimensional model for wind flow and pollutant transport-diffusion over complex terrain
02 p0243 N84-11591
Construction of three-dimensional vacuum magnetic fields with dense nested flux surfaces
[DE83-012600] 02 p0287 N84-11880
An experimental investigation of separated three dimensional flow on general aviation twin-engine aircraft
03 p0319 N84-12067
Aerodynamics of Vortical Type Flows in Three Dimensions
[AGARD-CP-342] 03 p0321 N84-12099
On issues concerning flow separation and vortical flows in three dimensions 03 p0321 N84-12100
The vortex skeleton model for three-dimensional steady flows 03 p0321 N84-12101
Visualization of vortical type flows in three dimensions
03 p0322 N84-12107
Viscous three-dimensional flow separations from high-wing propeller-turbine nacelle models
03 p0323 N84-12115
Theoretical modelling of three-dimensional vortex flows in aerodynamics 03 p0324 N84-12116
Flame acceleration mechanisms under conditions of partial confinement
[PB83-244012] 03 p0358 N84-12328
The Performance of Antennas in Their Operational Environment
[AGARD-LS-131] 03 p0363 N84-12367
Numerical solution of the three-dimensional unsteady Euler equations
[AD-A132034] 03 p0425 N84-12783
Solar cycle evolution of the solar wind in three dimensions 03 p0469 N84-13090
Development of a computer code for a three-dimensional higher order panel method for subsonic potential flow
[FFA-138] 04 p0479 N84-13155
A computer program for the calculation of three-dimensional transonic nacelle/inlet flowfields
[NASA-CR-166528] 04 p0480 N84-13159
Three-dimensional viscous design methodology for advanced technology aircraft supersonic inlet systems
[NASA-TM-83556] 04 p0485 N84-13190
Computation of viscous flow in curved ducts and comparison with experimental data
[NASA-TM-83548] 04 p0532 N84-13494
Experimental study of three-dimensional natural convection at high Rayleigh number
[DE83-011982] 04 p0537 N84-13530
Solution of Poisson equations for 3-dimensional grid generations — computations of a flow field over a thin delta wing
[NASA-TM-85857] 04 p0588 N84-13886
Three-dimensional implicit lambda methods
[NASA-CR-172264] 05 p0627 N84-14123
Further development of a method for computing three-dimensional subsonic viscous flows in turbofan lobe mixers
[NASA-CR-168304] 05 p0679 N84-14462
Some remarks on the creeping flow of the second grade fluid
[AD-A132806] 05 p0681 N84-14473
Three-dimensional wake of a swept wing
06 p0838 N84-15458
Three-dimensional turbulent boundary layers
06 p0838 N84-15459
A method of calculating fully three dimensional inviscid flow through any type of turbomachine blade row
06 p0840 N84-15479
Three-dimensional flow calculations on a hypothetical steam turbine last stage 06 p0841 N84-15481
Three-dimensional, time-dependent, compressible, turbulent, integral boundary-layer equations in general curvilinear coordinates and their numerical solution
[AD-A133289] 06 p0844 N84-15504
Comparison of calculated and measured pressures on straight and swept-tip model rotor blades
[NASA-TM-85872] 07 p0947 N84-16143
Effects of a skewed inlet end wall boundary layer on the 3-D flow field in an annular turbine cascade
07 p0956 N84-16202
Flow measurements in the stator row of a single-stage transonic axial-flow compressor with controlled diffusion stator blades 07 p0958 N84-16209
Progress on a generalized coordinates tensor product finite element 3DPNS algorithm for subsonic
[NASA-CR-172256] 07 p1002 N84-16495
Three-dimensional unsteady Euler equation solutions using flux vector splitting
[NASA-CR-173254] 07 p1058 N84-16857
Programs for calculating quasi-three-dimensional flow in a turbomachine blade row
[NASA-TM-83588] 08 p1098 N84-17136
Numerical simulation of transonic flutter of a high-aspect-ratio transport wing
[NAL-TR-776T] 09 p1257 N84-18206
Reattachment of a three-dimensional, incompressible jet to an adjacent axisymmetric inclined surface
[AD-A136288] 09 p1314 N84-18584
The generation of three-dimensional body-fitted coordinate systems for viscous flow problems
[AD-A136503] 09 p1314 N84-18588
Analysis of three-dimensional viscous internal flows
[AD-A135762] 09 p1315 N84-18592
On the stability of an infinite swept attachment line boundary layer
[NASA-CR-172300] 10 p1420 N84-19285
A study of annular diffuser flow using a photon-correlating laser Doppler anemometer
[AD-A137019] 10 p1493 N84-19762
Development of a wind tunnel test section with adaptive flexible walls for three-dimensional flow
[BMFT-FB-W-83-026] 10 p1495 N84-19776
Three-dimensional flow over a conical afterbody containing a centered propulsive jet: A numerical simulation 10 p1560 N84-20222
The present calculation method of adhering layers on aircraft wings
[AD-A137585] 11 p1602 N84-20496
Modeling of dilution jet flowfields
11 p1611 N84-20547
Three-dimensional nonequilibrium viscous shock-layer flow over the Space Shuttle orbiter
13 p1925 N84-22530
Three-dimensional, two-phase supersonic nozzle flows
[AD-A138649] 13 p1926 N84-22538
An experimental and analytic study of the flow subsonic wind tunnel inlets
[AD-A138665] 13 p1927 N84-22540
Aircraft exhaust plume signature predictions for non-axisymmetric multiple engine installations
13 p1942 N84-22627
Three-dimensional vorticity procedure interactions in combustion instability analysis of solid propellant rocket motors 13 p1945 N84-22647
Discharge of ideal gas into vacuum
13 p1970 N84-22785
Theory of hypersonic three-dimensional flow of nonsteady gas stream with relaxation past thin wing with arbitrary aspect ratio 13 p1971 N84-22791
Interaction of unsteady spatial boundary layer with hypersonic flow near rapidly heated portion of surface
13 p1971 N84-22794
Transient three-dimensional predictions of turbulent flows in cylindrical and cartesian coordinate systems
13 p1991 N84-22927
INTFL-8401 computer tomography for interferomatic aerodynamic measurements
[AD-A139591] 14 p2101 N84-23611
Experimental mixed convection heat transfer from a large, vertical surface in a horizontal flow
[HMT-36] 14 p2146 N84-23864
A spatial model of wind shear and turbulence for flight simulation
[NASA-TP-2313] 14 p2178 N84-24044
Application of a quasi-3D inviscid flow and boundary layer analysis to the hub-shroud contouring of a radial turbine
[NASA-TM-83669] 16 p2439 N84-25647
A numerical study of the controlled flow tunnel for a high lift model 16 p2452 N84-25721
Numerical computation of vortical flows about wings
16 p2492 N84-25987
Three-dimensional laminar separation
[AD-A140378] 16 p2493 N84-25993
Theoretical and experimental investigation of coherent structure in the turbulent boundary layer
[AD-A140517] 16 p2493 N84-25996
Multi-length scale turbulence models
[AD-A140527] 16 p2493 N84-25997
Iterative solution of the three-dimensional nonlinear potential equation of the gas dynamcis for ultrasonic flows 16 p2541 N84-26310
A solution procedure for three-dimensional incompressible Navier-Stokes equation and its application
[NASA-TM-85978] 17 p2600 N84-26666
Supersonic three-dimensional jet flow in channel
17 p2646 N84-26926
Solution of 3-dimensional time-dependent viscous flows. Part 2: Development of the computer code
[NASA-CR-166585-PT-2] 17 p2666 N84-27002

Theoretical modelling of three-dimensional vortex flows in aerodynamics
[AD-A134968] 17 p2667 N84-27007
False diffusion in three-dimensional steady flow calculations
[KU-SFB-80/T/224] 17 p2669 N84-27017
Solution of 3-dimensional time-dependent viscous flows. Part 1: Investigation of candidate algorithms
[NASA-CR-166565-PT-1] 17 p2757 N84-27503
A three-dimensional transonic, potential flow computer program, its conversion to IBM FORTRAN and utilization
[AD-A140936] 18 p2921 N84-28521
A numerical simulation of three-dimensional flow in an adaptive wall wind tunnel
[NASA-TP-2351] 19 p2958 N84-28750
Three-dimensional rotational inviscid flow calculation — turbomachines 19 p3022 N84-29166
Calculation of three dimensional viscous flows in annular cascades using parabolized Navier-Stokes equations 19 p3023 N84-29168
Acta mechanica sinica (Selected articles)
[AD-A142128] 19 p3024 N84-29180
Three-dimensional finite-element analysis of chevron-notched fracture specimens
[NASA-TM-85798] 19 p3035 N84-29249
Elliptic grid generation for three-dimensional geometries 20 p3168 N84-30117
An integral prediction method for three-dimensional flow separation
[AD-A142551] 20 p3184 N84-30231
Unsteady transonic aerodynamic and aeroelastic calculations about airfoils and wings
[NASA-TM-85986] 21 p3324 N84-31092
Calculation of the 3-D viscous flow at the endwall leading edge region of an axial annular turbine cascade
[NASA-CR-168275] 21 p3325 N84-31095
Hypersonic three-dimensional flow of radiating gas around wing 21 p3461 N84-32062
Analysis of three-dimensional transonic compressors
[NASA-CR-166580] 22 p3531 N84-32356
Representation of potential flow about axisymmetric bodies with discrete singularities
[AD-A143526] 22 p3594 N84-32760
Laminar convection with buoyancy in tube flows with a surrounding liquid medium 23 p3745 N84-33740
Visualization of the 3-dimensional flow around a model with the aid of a laser knife
[NASA-TM-77497] 23 p3746 N84-33748
Oscillatory convection — three dimensional flow
[DFVLR-FB-84-14] 23 p3747 N84-33756
Special Course on Stability and Transition of Laminar Flow
[AGARD-R-709] 23 p3748 N84-33757
Boundary-layer linear stability theory 23 p3748 N84-33759
Transition description and prediction in three-dimensional flows 23 p3748 N84-33761

THREE DIMENSIONAL MOTION
NT SECONDARY FLOW
NT THREE DIMENSIONAL FLOW
Computational studies in the interpretation of structure and motion: Summary and extension
[AD-A131598] 02 p0265 N84-11746
Three-dimensional feature extraction
[AD-A131333] 02 p0294 N84-11926
Calculation of three-dimensional flying object in shockless transonic flow
[NAL-TR-782] 09 p1251 N84-18167
Further development of XTRAN3S computer program
[NASA-CR-172335] 14 p2101 N84-23606
Three-dimensional computer modeling of dynamic reconnection in the magnetotail
[DE84-007480] 14 p2176 N84-24037
A three-dimensional ray method and its application to the study of wave propagation in crustal structure with curved layers 21 p3439 N84-31621

THRESHOLD LOGIC
The Thirteenth International Symposium on Multiple-Valued Logic
[AD-A136457] 14 p2189 N84-24115
P-valued input, Q-valued output threshold logic and its application to the synthesis of P-valued logical networks
[AD-P002336] 14 p2190 N84-24127
Generation of ternary majority functions of four or less variables
[AD-P002337] 14 p2190 N84-24128

THRESHOLD SHIFT
U THRESHOLDS

THRESHOLDS
Scaling of the beam plasma discharge for low magnetic fields
[AD-A139415] 14 p2229 N84-24363
Estimation of sensitivity threshold in integrating analog-to-digital converters with averaging of readings 22 p3567 N84-32593

THRESHOLDS (PERCEPTION)
Perception of higher derivatives of visual motion
[AD-A133908] 06 p0888 N84-15773
The audiomat: An automatic audiometer to be used in occupational audiometry
[IZF-1983-17] 12 p1900 N84-22372
Effects of adaptation to hot climate on thermoreception 18 p2896 N84-28375
Development of a microprocessor based audiometer for threshold shift studies
[AD-A142124] 19 p3065 N84-29448
Noise-induced hearing loss and its prediction 19 p3069 N84-29472
Noise-induced hearing impairment and handicap 19 p3069 N84-29473

THROATS
The SRB nozzle erosion related flow analysis
[NASA-CR-170961] 07 p0965 N84-16251

THROTTLING
1981 CRC octane number requirement survey
[AD-A133369] 06 p0812 N84-15288

THRUST
NT JET THRUST
NT LOW THRUST
NT ROCKET THRUST
NT STATIC THRUST
NT VARIABLE THRUST
A simulation investigation of the effects of engine-and thrust-response characteristics on helicopter handling qualities
[NASA-TM-85849] 01 p0005 N84-10034
Computer-Aided Structural Engineering (CASE) project. User's guide: Computer program to Calculate Shear, Moment and Thrust (CSMT) from stress results of a two-dimensional finite element analysis
[AD-A134089] 05 p0726 N84-14768
Determination of the static performance of a Cuyuna cc model UL-430RR engine
[NASA-CR-175354] 07 p0953 N84-16179
Centaur D-1A guidance/software system
[NASA-TM-83552] 07 p0962 N84-16234
Investigation of a pneumatic thrust deflector based on circulation control technology
[AD-A128950] 11 p1652 N84-20784
Thrust level requirements for space station on-orbit propulsion 20 p3140 N84-29935

THRUST AUGMENTATION
Research on nonsteady flow induction
[AD-A133694] 05 p0680 N84-14468
An experimental study of thrust augmenting ejectors
[AD-A136929] 10 p1492 N84-19757
Thrust augmentation study of high performance ejectors
[AD-A142650] 20 p3126 N84-29856
Performance verification tests of an uprated augmented catalytic thruster 20 p3136 N84-29911
MPD thruster comparisons with advanced chemical systems for auxiliary propulsion applications 20 p3139 N84-29928
Thrust balance efficiency measurements for a pulsed inductive thruster 20 p3139 N84-29930
Axisymmetric thrust augmenting ejector with discrete primary air slot nozzles
[AD-D011129] 22 p3536 N84-32386
Static thrust augmentation of rocket motors by air entrainment
[AD-A143179] 22 p3543 N84-32430

THRUST CHAMBERS
Development of a simplified procedure for rocket engine thrust chamber life prediction with creep
[NASA-CR-168261] 10 p1450 N84-19472
Investigation of pulsed performance of an electrothermal hydrazine thruster, using a special see-through thruster
[AD-A137408] 10 p1451 N84-19473
Investigation of combustion characteristics of a high chamber pressure rocket motor 13 p1952 N84-22693
Very low thrust and low chamber pressure GO2/GH2 thruster technology 20 p3136 N84-29910
Oxygen/hydrogen thrusters for the space station auxiliary propulsion systems 20 p3140 N84-29934

THRUST CONTROL
NT THRUST VECTOR CONTROL
Journal of the Chinese Society of Astronautics (selected articles)
[AD-A131881] 03 p0341 N84-12212
Identification of multivariable high-performance turbofan engine dynamics from closed loop data 11 p1617 N84-20580
Numerical analysis of a variable camber rotor blade as a lift control device
[NASA-CR-173452] 12 p1769 N84-21538
The influence of sensor and thruster imperfections on the attitude and position of a spacecraft performing a rendezvous 15 p2267 N84-24615
Ground based testing without wind tunnels 16 p2437 N84-25634
Orbit maneuvers with finite thrust
[MBB-UR-654-83-O] 16 p2455 N84-25741
Optimizing the thrust deflecting surface for the pneumatic thrust deflector
[AD-A140612] 17 p2609 N84-26703
The space transportation system reaction control system and orbital maneuvering subsystem 20 p3135 N84-29906
Iron nitrate and MON-3 nitrogen tetroxide 20 p3136 N84-29909
Very low thrust and low chamber pressure GO2/GH2 thruster technology 20 p3136 N84-29910
Tracking and Data Relay Satellite launch recovery mission 20 p3137 N84-29918
Space Shuttle reaction control subsystem propellant tank masked screen test 24 p3662 N84-34477

THRUST FAULTS
U GEOLOGICAL FAULTS

THRUST LOADS
Tests on steel I-beam columns subjected to thrust and biaxial bending
[CRIF-MT-157] 07 p1017 N84-16598

THRUST MEASUREMENT
Dynamic certification of a thrust-measuring system for large solid rocket motors 06 p0860 N84-15603
A technique to determine lift and drag polars in flight 24 p3648 N84-34402

THRUST POWER
U THRUST

THRUST REVERSAL
Internal pressure distributions for a two-dimensional thrust-reversing nozzle operating at a free-stream Mach number of zero
[NASA-TM-85655] 04 p0480 N84-13161
Effect of thrust reverser operation on the lateral-directional characteristics of a three-surface F-15 model at transonic speeds
[NASA-TP-2234] 04 p0481 N84-13165
Static internal performance including thrust vectoring and reversing of two-dimensional convergent-divergent nozzles
[NASA-TP-2253] 09 p1251 N84-18165
Reattachment of a three-dimensional, incompressible jet to an adjacent axisymmetric inclined surface
[AD-A136288] 09 p1314 N84-18584
Test techniques for jet effects on fighter aircraft 14 p2098 N84-23589
Aeropropulsive characteristics of nonaxisymmetric-nozzle thrust reversers at Mach numbers from 0 to 1.20
[NASA-TP-2306] 15 p2254 N84-24538
Thrust Reverser/Exhaust nozzle assembly for a gas turbine engine
[AD-D011101] 22 p3537 N84-32392

THRUST VECTOR CONTROL
Effect of thrust vectoring and wing maneuver devices on transonic aeropropulsive characteristics of a supersonic fighter
[NASA-TP-2119] 01 p0004 N84-10025
Solid rocket booster thrust vector control subsystem description
[NASA-TM-82546] 01 p0029 N84-10183
Thrust-induced effects on subsonic longitudinal aerodynamic characteristics of a vectored-engine-over-wing configuration
[NASA-TP-2228] 04 p0481 N84-13163
Electrofluidic angular rate sensor for ejection seat thrust vector control
[AD-A133233] 06 p0784 N84-15137
Static internal performance including thrust vectoring and reversing of two-dimensional convergent-divergent nozzles
[NASA-TP-2253] 09 p1251 N84-18165
Computer simulated development of a command to Line-of-Sight missile using on-off control
[AD-A140041] 15 p2260 N84-24697
Fluidic thrust vector control thruster development 20 p3141 N84-29940
A turbomechanical thrust vector control for advanced intercontinental ballistic missiles 20 p3143 N84-29953

THRUSTORS
U ROCKET ENGINES

THULIUM COMPOUNDS
General cases of the pseudoquadrupole interaction in (169)Tm
[DE83-015685] 07 p1082 N84-17040

THUNDERSTORMS
Multi-scale analyses of meteorological conditions affecting Pan American World Airways flight 759
[PB83-222562] 01 p0006 N84-10040
Hy-wire and fast electric field change measurements near an isolated thunderstorm, appendix C
[NASA-TM-85072] 01 p0107 N84-10692

Some basic elements of thunderstorm forecasting
[PB83-222604] 01 p0109 N84-10710
A climatology of synoptic scale atmospheric structure prior to severe convective storms
02 p0253 N84-11653
A subsynoptic environment associated with two inter-mountain severe thunderstorm events
[DE83-014498] 03 p0412 N84-12694
Relationships between thunderstorm mesoscale circulation and tornadogenesis 06 p0680 N84-15727
Airborne lightning characterization
[AD-A130627] 06 p0881 N84-15733
Investigation of the arc cloud complex
06 p0928 N84-16029
Data acquisition for evaluation of an airborne lightning detection system
[AD-A135318] 06 p1100 N84-17153
Structural analysis of air outflow from low layers of intense thundercloud
[AD-A136500] 09 p1348 N84-18810
Numeric and fluid dynamic representation of tornadic double vortex thunderstorms
[NASA-CR-171023] 15 p2370 N84-25217
Correlated measurements of UHF radar signatures, RF radiation and electric field changes from lightning
[NASA-TM-84425] 16 p2481 N84-25907
Diurnal and annual variation of climatic elements in Finland
[T-551.583.13(480)] 18 p2883 N84-28294
Numerical simulation of thunderstorm gust fronts
[AD-A141214] 18 p2889 N84-28339
Cosmic rays, solar activity, magnetic coupling, and lightning incidence
[NASA-CR-3812] 19 p3057 N84-29397
Nighttime observations of thunderstorm electrical activity from a high altitude airplane
[NASA-TM-86455] 21 p3405 N84-31597
Applications of the AVE-SESAME data sets to mesoscale studies
[NASA-CR-3819] 21 p3446 N84-31866
Measurements inside Oklahoma thunderstorms
[PB84-206911] 21 p3450 N84-31891
Doppler-radar observation of the evolution of downdrafts in convective clouds
[NASA-CR-173874] 21 p3450 N84-31896
A four-dimensional thunderstorm model for flight simulators
[AD-P003492] 21 p3514 N84-32258
Lightning swept-stroke attachment patterns and flight conditions for storm hazards 1981
[NASA-TM-86279] 22 p3532 N84-32365
Thunderstorm impact on Denver air traffic control operations and the role of NEXRAD (Next Generation Weather Radar)
[PB84-189729] 22 p3534 N84-32374
A kinetic energy study of the meso beta-scale storm environment during AVE-SESAME 5 (20-21 May 1979)
[NASA-CR-3820] 23 p3800 N84-34090
NASA/MSFC FY-84 Atmospheric Processes Research Review
[NASA-CP-2329] 24 p3923 N84-34829
Maxwell currents beneath thunderstorms
24 p3926 N84-34852
Nighttime observations of thunderstorm electrical activity from a high altitude airplane
24 p3926 N84-34853
Storm severity detecion (RF)
24 p3927 N84-34857
The optical characteristics of lightning
24 p3927 N84-34858
Remote observations of severe storms
24 p3927 N84-34859
Severe storm electricity 24 p3927 N84-34860
Studies of lightning data in conjunction with geostationary satellite data 24 p3928 N84-34861
Analysis of lidar, radar and satellite measurements on severe thunderstorms and their environments
24 p3928 N84-34864
Severe storm initiation and dvelopment from satellite infrared imagery and Rawlinsonde data
24 p3929 N84-34872
Statistical severe storm nowcasting comparison of VAS and Rawinsonde soundings 24 p3930 N84-34878

THYRATRONS
Small and light thyratron grid driver
[DE83-014941] 01 p0075 N84-10490
Inexpensive solid-state trigger unit for thyratrons
[DE84-001424] 08 p1152 N84-17501
High voltage, low inductance hydrogen thyratron study program, phase 5
[DE84-000827] 10 p1487 N84-19721
Long-life, high-current thyratrons for fast discharge lasers
[AD-A140817] 17 p2663 N84-26991
Evaluation of bidirectionally conducting thyratrons for pulsed excimer lasers
[DE84-013890] 22 p3602 N84-32818

THYRISTORS
NT SILICON CONTROLLED RECTIFIERS
Selected aspects of radio interference from HVDC (High Voltage Direct Current) converter stations
[PB83-219675] 01 p0075 N84-10494
Development of a cesium-vapor-lamp system for triggering photothyristors — for power conversion applications in electric utility substations
[DE83-902691] 02 p0215 N84-11407
Pulsed thyristor trigger control circuit
[NASA-CASE-MFS-25616-1] 07 p0996 N84-16455
Optimization of the parameters of the arc suppressing system of high-voltage apparatuses with a thyristor attachment
[BLL-OA-TRANS-3139-(6196.3)]
08 p1149 N84-17476
Thyristor converter for capacitive laser accumulators
[AD-A136051] 09 p1341 N84-18762
Development of microcomputer compatible power switches
[BMFT-FB-T-83-277] 10 p1488 N84-19731
Phase detector for three-phase power factor controller
[NASA-CASE-MFS-25654-1] 18 p2832 N84-27975
High-speed thyristors on weakly doped GaAs
22 p3568 N84-32600
Three-phase power factor controller with induced EMF sensing
[NASA-CASE-MFS-25852-1] 23 p3734 N84-33661

THYROID GLAND
Structural distinctions of thyroid C cells and parathyroid glands of primates during head-down hypokinesia
15 p2377 N84-25263

TIDAL OSCILLATION
U TIDES

TIDAL WAVES
Interpretation of a SAR (Synthetic Aperture Radar) image of the Bay of Biscay
[AD-A135981] 09 p1303 N84-18517
Proceedings of Tsunami Symposium
[PB84-183482] 20 p3252 N84-30838

TIDES
NT ATMOSPHERIC TIDES
NT EARTH TIDES
NT LUNAR TIDES
Sediment transport in a tidal inlet
[PB83-242271] 03 p0402 N84-12632
Adjustment in the oceans: The long-period tides and coastal upwelling 03 p0413 N84-12702
Tide tables 1984, high and low water predictions, central and western Pacific Ocean and Indian Ocean
[PB83-255166] 05 p0711 N84-14660
Prototype tidal data analysis for Mississippi Sound and adjacent areas
[AD-A134071] 06 p0883 N84-15744
On the structure of the tidal field
07 p1030 N84-16579
Report of the NASA workshop on tidal research
[NASA-CR-173204] 07 p1040 N84-16744
A model for tidal circulation adapted to Monterey Bay, California
[AD-A135077] 09 p1351 N84-18827
Tidal and lunar data for Point Mugu, San Nicolas Island and the Barking Sands area, 1984
[AD-A135243] 09 p1351 N84-18828
The Laplacian resonance and tidal dissipation
13 p2073 N84-23434
Sea level variations and ocean dynamics in the Aleutian Islands
[AD-A139421] 14 p2183 N84-24079
Tidal effects and globular clusters
16 p2578 N84-26542
MST radar detection of middle atmosphere tides
17 p2682 N84-27079
Meteorological and dynamical requirements for MST radar networks: Waves 17 p2683 N84-27080
A numerical model for studying some coastal circulation
[INPE-2904-RPE/444] 17 p2737 N84-27386
Charts of the O1, K1, N2, M2, and S2 tides in the Celtic Sea including M2 and S2 tidal currents
[IOS-169] 18 p2893 N84-28360
First- and second-phase gravity field solutions based on satellite altimetry
[AD-A142256] 19 p3054 N84-29381
An objective analysis technique for extrapolating tidal fields 20 p3222 N84-30471
Documentation of wave-height and tidal analysis programs for automated data acquisition and control systems
[AD-A142679] 20 p3251 N84-30634
Long-term salinity, temperature and current measurements in upper Chesapeake Bay
[PB84-180280] 20 p3251 N84-30636
Solar tides in the mesospheric sodium layer
[INPE-2942-TDL/151] 22 p3622 N84-32953

TIG WELDING
U GAS TUNGSTEN ARC WELDING

TILES
Shuttle launch debris: Sources, consequences, solutions 01 p0019 N84-10124
Orbiter windward surface entry Heating: Post-orbital flight test program update 01 p0024 N84-10150
Filler bar heating due to stepped tiles in the shuttle orbiter thermal protection system 01 p0024 N84-10155
Lessons learned from the development and manufacture of ceramic reusable surface insulation materials for the space shuttle orbiters 01 p0025 N84-10158
Life considerations of the shuttle orbiter densified-tile thermal protection system 01 p0025 N84-10159
Mechanical fastener
[NASA-CASE-LAR-12736-2] 06 p0795 N84-15180
Advanced leading edge thermal-structure concept. Direct bond reusable surface insulation to a composite structure
[NASA-TM-85941] 14 p2113 N84-23665
Shell tile thermal protection system
[NASA-CASE-LAR-12862-1] 18 p2817 N84-27886
Electroless-plating technique for fabricating thin-wall convective heat-transfer models
[NASA-TP-2349] 21 p3399 N84-31561
Study of outgassing and decomposition of Space Shuttle heat protection tiles, fillers and adhesive
[NASA-CR-173974] 24 p3860 N84-34465

TILT
U ATTITUDE (INCLINATION)

TILT ROTOR AIRCRAFT
NT XV-15 AIRCRAFT
Airloads on bluff bodies, with application to the rotor-induced downloads on tilt-rotor aircraft
[NASA-TM-84401] 02 p0174 N84-11142
Joint services advanced vertical wing (JVX) program
[GPO-22-771] 02 p0177 N84-11160
La Recherche Aerospatiale, Bimonthly Bulletin, no. 1982-6, 211/November-December 1982
[ESA-TT-801] 04 p0515 N84-13382

TILT ROTOR RESEARCH AIRCRAFT PROGRAM
An assessment of the capability to calculate tilting prop-rotor aircraft performance, loads and stability
[NASA-TP-2291] 10 p1427 N84-19333

TILTING
U ATTITUDE (INCLINATION)

TILTMETERS
Experiment to measure microkinematic processes on the surface of the Earth 02 p0233 N84-11529
Omnidirectional fiber optic tiltmeter
[DE84-011109] 20 p3300 N84-30959

TIMBER IDENTIFICATION
First results of the evaluations of the European SAR 580 data for agricultural and forestry purposes in test site D6, Freiburg (West Germany) 03 p0398 N84-12599
Interpreting Michigan forest cover types from color infrared aerial photographs
[E84-10097] 12 p1828 N84-21917
Analysis of the quality of image data acquired by the LANDSAT-4 thematic mapper and multispectral scanners — Plumas County, California
[E84-10106] 12 p1829 N84-21924
Use of remote sensing for land use policy formulation
[E84-10117] 14 p2167 N84-23977
An initial analysis of LANDSAT-4 Thematic Mapper data for the discrimination of agricultural, forested wetland, and urban land covers 20 p3213 N84-30414
Forestry inventory based on multistage sampling with probability proportional to size
[INPE-2869-RPE/441] 23 p3763 N84-33855
Radar backscattering of forest stands
23 p3767 N84-33880
Use of multi-frequency, multi-polarization, multi-angle airborne radars for class discrimination in a southern temperature forest 23 p3767 N84-33881
Interactive Automatic System (iasp): An expert system to help photointerpretation 23 p3779 N84-33961

TIMBER INVENTORY
Update and review of accuracy assessment technique for remotely sensed data
[E84-10029] 01 p0099 N84-10646
Considerations on a permanent inventory and monitoring system for European forests 03 p0395 N84-12582
Inventory of Flemish forests using medium-scale Color Infrared (CIR) photography and CIR orthophotoplans as base for a forest management data bank
03 p0400 N84-12614
Application of remote sensing to state and regional problems
[E84-10128] 14 p2168 N84-23986
Forest inventory using multistage sampling with probability proportional to size — Brazil
[E84-10144] 16 p2507 N84-26092

Forestry inventory based on multistage sampling with probability proportional to size
[INPE-2969-RPE/441] 23 p3763 N84-33855

TIMBER VIGOR
Development of a data management front-end for use with a LANDSAT-based information system
[NASA-CR-175151] 11 p1749 N84-21418

TIME
NT EPHEMERIS TIME
NT FLIGHT TIME
NT MTBF
NT REACTION TIME
NT RELAXATION TIME
NT RESPONSE TIME (COMPUTERS)
NT TESTING TIME
NT TRANSIT TIME
Measurement errors in TDC's using digital techniques
[DE84-002133] 07 p1006 N84-16537
An algebraic approach to analysis and control of time-scales
[AD-A135115] 08 p1218 N84-17949
A timing and memory sizing study for wavenumber analyzer
[AD-A135581] 09 p1318 N84-18611
Time map maintenance
[AD-A137236] 10 p1567 N84-20268
Randomized estimators for time integrals
[AD-A137921] 11 p1714 N84-21180
Control of parameter-dependent systems, spatially-distributed systems, and systems with delays
[AD-A138036] 12 p1897 N84-22354
Estimating time averages via randomly-spaced observations
[AD-A139315] 14 p2214 N84-24295
Space Station commercial user development
[NASA-CR-173688] 18 p2798 N84-27756
A probabilistic model for predicting the duration of levels of electromagnetic transmission in falling snow: Environmental research papers
[AD-A143318] 22 p3577 N84-32655
Temporal and latitudinal distribution of ionosphere irregularity in Brazil, data analysis of scintillations in very high frequencies and ionograms
[INPE-3179-TDL/172] 23 p3798 N84-34081

TIME CONSTANT
The effects of widening time constants and increasing time delay on controller design using approximate models
[RR-239] 13 p1975 N84-22817
Estimation of channel capacity of the time variable multipath channel
[LFD-208] 15 p2318 N84-24912

TIME DELAY
U TIME LAG

TIME DEPENDENCE
Analysis of shuttle oscillation in the Mach Number = 1.7 to Mach Number = 1.0 range
01 p0021 N84-10132
Time-dependent behavior of high-strength concrete sustained compressive stresses
[PB83-227041] 01 p0060 N84-10391
Research and development program for the development of advanced time-temperature dependent constitutive relationships. Volume 1: Theoretical discussion
[NASA-CR-168191-VOL-1] 01 p0094 N84-10613
Spectral methods for time dependent partial differential equations
[NASA-CR-172241] 01 p0128 N84-10837
Generation of ultrafast optical fiducials for shock-wave experiments
[DE83-013765] 01 p0148 N84-10974
An experimental study of the dynamics of an unsteady turbulent boundary layer 02 p0221 N84-11452
Response of installed temperature sensors
[DE83-015509] 02 p0224 N84-11471
Transient electron transport in gases
[DE83-009188] 02 p0291 N84-11906
Numerical solutions of the Euler equations simulating vortex flows around wings 03 p0324 N84-12120
Quasi-steady solar wind dynamics
03 p0474 N84-13120
An EPROM-based function generator
04 p0519 N84-13408
Mass transfer at gas-evolving surfaces in electrolysis
[DE84-002567] 05 p0651 N84-14282
On the analytical form of the Earth's magnetic attraction expressed as a function of time
[NASA-TM-77344] 05 p0702 N84-14609
Radiation transport in numerical astrophysics
[DE84-002011] 05 p0783 N84-15006
Exploiting temporal knowledge to organize constraints
[AD-A133417] 06 p0899 N84-15838
Methods of the analysis of the disruption of tracking
[AD-A133335] 06 p0918 N84-15963
Propagation of crazing in viscoelastic media
[NASA-CR-173244] 07 p1015 N84-16583
Probabilistic planning and budgeting for R and D programs involving activities of high uncertainty
[DE84-002310] 08 p1238 N84-18093
Transient current density waveforms on a perfectly conducting sphere
[AD-A135862] 09 p1300 N84-18500
Complex vector algebra in electromagnetics
[REPT-S-125] 09 p1304 N84-18526
Time dependent, compressible simulations of shear flows: Tests of outflow boundary conditions
[AD-A136410] 09 p1314 N84-18587
Repeated load relaxations of type 316 austenitic stainless steel
[DE84-004875] 10 p1461 N84-19541
Navier-Stokes simulation of homogeneous turbulence on the CYBER 205 10 p1560 N84-20224
Time-dependent Child-Langmuir diode simulation
[AD-A136964] 10 p1570 N84-20288
Meteorologically induced uncertainty in LRT modeling
[DE84-003444] 11 p1676 N84-20935
A numerical model of interactions between a polar ice stream, the ocean and the solid earth: Application to ice stream E, West Antarctica 11 p1689 N84-21013
Fracture mechanics evaluation of the static fatigue life of optical fibers in bending 11 p1727 N84-21265
Time dependent land and vegetation canopy temperatures 12 p1858 N84-22104
Negative-ion formation from surface scattering and the Anderson correlation energy U
[AD-A138390] 12 p1914 N84-22473
Matrix-dominated time-dependent deformation and damage of graphite/epoxy composite experimental data under creep and recovery
[AD-A139064] 13 p1954 N84-22704
Finite element analysis of structure subjected to nonstationary load fields with contact interfaces
13 p2002 N84-22993
Transient processes in an inductor system consisting of a flat coil and a multilayer conducting medium
[AD-A139053] 13 p2039 N84-23232
Recent developments in the measurement of time-dependent pressures 14 p2100 N84-23601
TLINES: A computer program for circuits of transmission lines
[AD-A139596] 14 p2142 N84-23844
Formation of a shock wave in a dusty gas by a moving piston
[UTIAS-275] 14 p2145 N84-23853
Nonlinear interactions between the pumping kinetics, fluid dynamics and optical resonator of CW fluid flow lasers
[AD-A139189] 14 p2150 N84-23882
On the control of a linear stochastic system with finite horizon
[AD-P002949] 14 p2198 N84-24189
Fluctuations in optical bistability: Experiment with shot noise 14 p2232 N84-24392
Experimental investigation of the turbulent large scale temporal flow in the wing-body junction
[AD-A139836] 15 p2257 N84-24558
Isothermal calorimetric investigation of a reversible reaction in rapidly solidified Fe40Ni40B20
[DE84-006013] 15 p2296 N84-24791
Time dependent quasifracture nucleation and propagation 15 p2349 N84-25097
Circadian rhythm of human heart rate during antiorthostatic tests 15 p2376 N84-25259
Topics in finite time thermodynamics
[DE84-009057] 15 p2416 N84-25502
Very recent IUE observations of 2 BL Lacertae orbits
15 p2424 N84-25561
Estimation of the parameters of an unmodulated carrier signal disturbed by complex-multiplicative and additive Gaussian noise
[ESA-TT-737] 16 p2482 N84-25914
Practice; criteria; provisions; mathematical descriptions: Examples
[PUBL-310] 16 p2487 N84-25951
Implicit time dependent methods for the solution of the Euler equations. Part 2: Application to transonic flows
16 p2492 N84-25990
Coherent structure modeling of viscous sublayer turbulence for incompressible flow with heat transfer and for compressible flow
[AD-A140478] 16 p2493 N84-25994
Failure times and optimal stopping rules of generalized shock models 16 p2552 N84-26372
Dispersion of sequential detection time for signals submerged in autoregressional interference
17 p2632 N84-26839
Time characteristics of search for compound signals with respect to delay 17 p2634 N84-26851
Numerical analysis of time-dependent inelastic fracture 17 p2677 N84-27054
Response of an atmospheric prediction model to time-dependent sea-surface temperatures
[AD-A140730] 17 p2734 N84-27377
Matrix-dominated time-dependent deformation and damage of graphite epoxy composite -- experimental data under multiple-step relaxation
[AD-A141697] 19 p2986 N84-28920
On the scattering of electromagnetic waves by perfectly conducting bodies moving in vacuum. Part 2: Scattering by stationary perfect conductors
[AD-A141548] 19 p3005 N84-29047
On the scattering of electromagnetic waves by perfectly conducting bodies moving in vacuum. Part 4: Kinematic single layer potentials
[AD-A141747] 19 p3006 N84-29052
Dynamical properties of disordered systems
[AD-A141597] 19 p3085 N84-29580
Measurement of lifetimes of the vibrational levels of the B state of N2
[AD-A142161] 19 p3101 N84-29702
Electron beam diagnostic for the Los Alamos free electron laser oscillator experiment
[DE84-011348] 20 p3193 N84-30278
Stratospheric NO and NO2 profiles at sunset from analysis of high-resolution balloon-borne infrared solar absorption spectra obtained at 33 deg N and calculations with a time-dependent photochemical model
[NASA-TM-86285] 20 p3240 N84-30566
Time-dependent spinal cord changes following nonionizing microwave irradiation
20 p3258 N84-30678
RFQ radial matching sections and fringe fields
[DE84-011408] 20 p3295 N84-30920
Formation of spatial Alfven resonance and global modes in an inhomogeneous plasma
[IPPJ-674] 20 p3302 N84-30966
White light solar corona: An atlas of 1963 K-coronameter synoptic charts
[PB84-184159] 20 p3320 N84-31075
Time-dependent oscillations in a CW HF chemical laser unstable resonator
[AD-A142966] 21 p3409 N84-31622
A 1-dimensional time dependent model of the stratospheric aerosol 21 p3437 N84-31808
Time dependent wave envelope finite difference analysis of sound propagation
[NASA-TM-83744] 21 p3490 N84-32118
Solar flares and magnetospheric particles: Investigations based upon the ONR-602 experiment
[AD-A143144] 21 p3526 N84-32336
Three-dimensional, time-dependent, compressible, turbulent, integral boundary layer equations in general curvilinear coordinates and their numerical solutions
22 p3529 N84-32348
Fast solutions to the steady state compressible and incompressible fluid dynamic equations
[NASA-CR-172416] 22 p3530 N84-32349
Effects of standtime on the available capacity of lead-acid and nickel/iron electric vehicle batteries
[DE84-013452] 22 p3587 N84-32721
Time development of Cerenkov radiation
[AD-A143225] 22 p3653 N84-33155
Drift mobilities by time-of-flight methods and time-dependent phototransport in the nanosecond regime in amorphous semiconductors
[DE84-014906] 22 p3666 N84-33241
Onset of oscillations in symmetric convective states in a superfluid He-3-He-4 mixture
[DE84-009984] 22 p3666 N84-33244
On long-term periodicities in the sunspot record
[NASA-TM-86458] 23 p3844 N84-34388
Laser velocimeter measurements of dynamic stall -- conducted in the Ames two foot wind tunnel
[NASA-CR-166603] 24 p3852 N84-34429
Analysis of lidar, radar and satellite measurements on severe thunderstorms and their environments
24 p3928 N84-34864

TIME DIVISION MULTIPLE ACCESS
Approaches to optimization of SS/TDMA time slot assignment -- satellite switched time division multiple access
[NASA-CR-168328] 07 p0963 N84-16243
Modular approach for satellite communication ground terminals
[NASA-CR-168327] 07 p0991 N84-16425
Digital transponder 11/14 GHz, 120 Mbit/sec. Phase 2: Transponder test equipment and system measurements
[BMFT-FB-W-83-013] 07 p0994 N84-16448
Traffic routing in a switched regenerative satellite. Volume 1, task 3: Traffic assignment
[ESA-CR(P)-1792-VOL-1] 08 p1147 N84-17463
Traffic routing in a switched regenerative satellite. Volume 2, task 4: Review (executive summary)
[ESA-CR(P)-1792-VOL-2] 08 p1147 N84-17464

TIME DIVISION MULTIPLEXING
MIL-STD-1553 multiplex applications handbook. Addendum: Chapter 11
[AD-A131551] 02 p0210 N84-11372
High dynamic global positioning system receiver
[NASA-CASE-NPO-16171-1-CU] 03 p0330 N84-12151
Chopped molecular beam multiplexing system
[NASA-CASE-LAR-13174-1] 15 p2404 N84-25431
Satellite communication, part 2
[INPE-3107-PRE/506] 16 p2481 N84-25906
Applications of the GPS (Global Positioning System) Geodetic Receiver System
[AD-A140567] 17 p2605 N84-26686
TIME FUNCTIONS
RF front end interface and AGC modification 02 p0168 N84-11102
Preliminary description of the area navigation software for a microcomputer-based Loran-C receiver 02 p0168 N84-11103
Relative-datum Loran navigation 02 p0168 N84-11107
Forming of magnetic fields with complex law of variation in time
[AD-A131128] 02 p0287 N84-11879
Complex vector algebra in electromagnetics
[REPT-S-125] 09 p1304 N84-18526
Dynamic simulation of structural systems with isolated nonlinear components 10 p1510 N84-19885
Estimation of channel capacity of the time variable multipath channel
[LFD-208] 15 p2318 N84-24912
Comparison of simulation and measurement techniques for continuous waves and pulses
[SNIAS-841-422-103] 21 p3388 N84-31501
TIME LAG
Ignition delay times of propene oxygen argon mixtures
[AD-A130464] 01 p0037 N84-10232
Design of Smith control schemes for time-delay systems based on plant step data
[RR-231] 05 p0733 N84-14812
MSW (magnetostatic wave) variable time-delay techniques
[AD-A133770] 05 p0753 N84-14941
Time delay estimation using the adaptive delay element
[DE84-002042] 06 p0830 N84-15403
Another look at the optimum frequencies for a water vapor radiometer 10 p1473 N84-19622
Advanced teleprocessing systems
[AD-A137944] 11 p1644 N84-20747
A microstrip time delay circuit on barium tetratitanate
[AD-A138026] 12 p1811 N84-21807
Robustness and sensitivity of Smith predictor controllers for time-delay systems
[RR-238] 13 p1974 N84-22812
The effects of widening time constants and increasing time delay on controller design using approximate models
[RR-239] 13 p1975 N84-22817
Multi-sensor array time-delay estimation with small phase incoherences
[AD-A138667] 13 p2033 N84-23183
Local bifurcation of a logistic delay map
[MC-TW-246/83] 13 p2035 N84-23205
The queue G/G/k: Finite moments of the cycle variables and uniform rates of convergence
[CTH-MATH-1983-24] 13 p2037 N84-23218
Multivariable control law theory 15 p2253 N84-24530
Hazardous conditions in single enclosures subjected to fire
[FOA-C-20524-D6] 15 p2305 N84-24831
Development of automatic measuring system for image pickup tubes
[NHK-LN-295] 15 p2335 N84-25014
Acousto-Optic Adaptive Processing (AOAP)
[AD-A141445] 19 p3100 N84-29689
Estimating the number and duration of cognitive processes using the within-task subtractive method
[AD-A144617] 24 p3937 N84-34923
TIME MARCHING
Three-dimensional rotational inviscid flow calculation — turbomachines 19 p3022 N84-29166
TIME MEASUREMENT
Interactive modeling of scintillation pulses by visual overlay of computed pulse shapes with the raw data
[DE83-012668] 01 p0124 N84-10805
User requirements and a high level design of the hydrographic software/data processing subsystem of an airborne laser hydrography system
[PB83-228569] 01 p0127 N84-10630
The elements of the Earth's magnetism for the Epochs 1600, 1650, 1700, 1780, 1842 and 1885, and their secular changes derived from observations calculated using the coefficients of the Gaussian 'General Theory of Earth's Magnetism'
[NASA-TM-77100] 07 p1033 N84-16700
SAMPLE: Software for VAX FORTRAN execution timing
[DE84-003819] 07 p1055 N84-16834
Picosecond time difference measurements utilizing CAMAC-based ANSI/IEEE-488 data acquisition hardware. Operating manual IE3, version 1.0
[PB84-116011] 09 p1319 N84-18616
Evaluation of the significance of the data on the 160.01 min oscillations of the Sun treated by the superposed epoch analysis 09 p1408 N84-19203
Predicting variations in Earth rotation — for clock synchronization 09 p1411 N84-19225
Cosmic ray exposure ages of iron meteorites, complex irradiation and the constancy of cosmic ray flux in the past 11 p1755 N84-21455
Plasma bubble irregularity occurrence and zonal velocities under quiet and disturbed conditions, from polarimeter observations
[INPE-3023-PRE/461] 12 p1846 N84-22036
Age and evolution of the Yukon-Tanana Terrane, southeastern Yukon Territory 13 p2013 N84-23060
Dispersion of sequential detection time for signals submerged in autoregressional interference 17 p2632 N84-26839
Time characteristics of search for compound signals with respect to delay 17 p2634 N84-26851
Normal magnetic field maps for Caucasus region for epoch 1980 18 p2861 N84-28168
Lagrangian time scales connected with clouds and precipitation
[CM-65] 18 p2891 N84-28350
Flight data file: STS-4 crew activity plan
[NASA-TM-85502] 19 p2978 N84-28681
Determination of the optimum crystallization conditions of a high thermal expansion glass-ceramic
[DE84-009734] 19 p3000 N84-29014
Final results of Doppler point positioning at several timekeeping laboratories in Europe 19 p3039 N84-29282
Synchronization tracking in pulse position modulation receiver
[NASA-CASE-NPO-16256-1] 22 p3572 N84-32620
Programmable signal processing device
[AD-D011109] 22 p3580 N84-32673
Volumetric fuel quantity gauge
[NASA-CASE-LAR-13147-1] 22 p3598 N84-32787
Ages of extragalactic intermediate-age star clusters
[NASA-CR-173927] 23 p3840 N84-34360
Meteorite bombardment and dating of planetary surfaces
[NASA-TM-77558] 24 p3991 N84-35260
TIME MEASURING INSTRUMENTS
NT ATOMIC CLOCKS
NT CHRONOMETERS
NT CLOCKS
NT TIMING DEVICES
TIME OF FLIGHT SPECTROMETERS
Resonance ionization mass spectroscopy at Los Alamos National Laboratory
[DE84-001705] 07 p0972 N84-16297
Techniques for avoiding discrimination errors in the dynamic sampling of condensable vapors
[NASA-TM-85886] 07 p1007 N84-16527
Analysis of a time-of-flight neutron spectrometer
[DE84-006504] 11 p1661 N84-20836
Defect sizing using the time of flight technique on the RNL RSV plate
[ND-R-790(R)] 18 p2850 N84-28099
Drift mobilities by time-of-flight methods and time-dependent photocurrent in the nanosecond regime in amorphous semiconductors
[DE84-014906] 22 p3666 N84-33241
TIME OPTIMAL CONTROL
Introduction to self-tuning controllers 07 p1057 N84-16846
Strategies of cooperation in distributed problem solving
[AD-A136527] 09 p1371 N84-18955
Time optimal control of a crane
[EUT-83-E-135] 10 p1568 N84-20271
Navstar Global Positioning System overview
[AD-A140793] 17 p2605 N84-26691
The generic local time-optimal stabilizing controls in dimension 3
[AD-A144662] 24 p3952 N84-35027
TIME RESPONSE
Large area spark counters with fine time and position resolution
[DE84-007804] 15 p2337 N84-25031
Effect of control logic modifications on airstart performance of F100 engine model derivative engines in an F-15 airplane
[NASA-TM-85900] 20 p3130 N84-29879
TIME SERIES ANALYSIS
A determination and analysis of polar motion 02 p0247 N84-11615
Periodicities in the rainfall patterns of different regions in India
[INPE-2899-PRE/418] 02 p0253 N84-11657
Time series model identification by estimating information, memory and quantiles
[AD-A131155] 02 p0261 N84-11843
Robust linear filtering for multivariable stationary time series
[AD-A131209] 02 p0261 N84-11844
Why didn't Box-Jenkins win (again)?
[DE83-014043] 03 p0427 N84-12902
Data validation and summary for the NRL remote sensing experiment: Phelps Bank, July, 1982. Part 2: Meteorology
[AD-A132105] 04 p0553 N84-13846
A user's guide to ARSPIC: The univariate time series analysis program for autoregressive spectral information quantile identification
[AD-A132217] 04 p0561 N84-13831
Time series long memory identification and quantile spectral analysis
[AD-A132240] 04 p0590 N84-13900
The amplitude density function and high-resolution frequency analysis of time series
[AD-A132466] 04 p0592 N84-13906
Application of the maximum entropy method to the spectral analysis of geophysics data. Results of some preliminary tests on theoretical series
[IFSI-82-1] 05 p0705 N84-14626
SPECAN (Spectral Analysis): A program in ACSL for stochastic time series analysis
[AD-A133719] 05 p0728 N84-14777
Reliability of electrical machines and drives, part 2
[BMFT-FB-T-83-164-PT-2] 07 p0999 N84-16481
Statistical properties of an integrated stationary stochastic process
[AD-A134180] 07 p1067 N84-16924
Asymptotic properties of extended Yule-Walker estimates of the AR parameters of an ARMA (autoregressive moving-average)
[AD-A134981] 08 p1221 N84-17970
On the maximum-entropy/autoregressive modeling of time series
[NASA-TM-86057] 09 p1372 N84-18961
Fixed point implementations of fast Kalman algorithms
[AD-A136188] 09 p1378 N84-19005
Phase dispersion minimization methods for estimation of periods from unequally spaced sequences of data — astrophysical data 09 p1408 N84-19202
A study of the wake-like distortions in the light curves of RS CVN stars by means of time analysis 09 p1409 N84-19213
Differential rotation of solar background magnetic fields during the 20th solar cycle 09 p1410 N84-19214
Some remarks on second order stationary process (or weak stationarity) 09 p1412 N84-19239
L band push broom microwave radiometer: Soil moisture verification and time series experiment Delmarva Peninsula
[E84-10084] 10 p1520 N84-19955
Harmonizable filtering and sampling of time series
[AD-A137517] 10 p1570 N84-20265
Higher order crossings
[AD-A137086] 10 p1571 N84-20296
The autocorrelation function of seasonal ARMA models
[AD-A137929] 11 p1715 N84-21182
On segmentation of digital images using spatial and contextual information via a 2-dimensional Markov model
[AD-A137942] 11 p1715 N84-21186
Predictability of the Earth's polar motion
[NASA-TM-86095] 14 p2189 N84-23991
Interactive signal synthesis system user's guide
[AD-A139594] 14 p2206 N84-24238
Stability of permanent magnets
[AD-A139471] 14 p2220 N84-24320
MEM spectrum analysis of snow densities 15 p2353 N84-25117
Hardness of wet snow, 2 15 p2353 N84-25119
A multivariate autoregressive display monitoring model
[NLR-MP-83033-U] 15 p2384 N84-25296
Nonlinear least squares regression using STAR-PAC: The standards time series and regression package
[PB84-166214] 15 p2394 N84-25365
Evaluation of characteristics of system of space-time processing of signals by statistical simulation method 17 p2633 N84-26845

Renormalization of seasonals in the additive seasonal model: Is it necessary?
[AD-A140799] 17 p2734 N84-27379
Introduction to STARPAC. The standards time series and regression package
[PB84-178367] 17 p2755 N84-27492
Multivariate analysis and its applications
[AD-A140942] 18 p2925 N84-28549
Gwilym Jenkins: Experimental design and time series
[AD-A141506] 19 p3084 N84-29575
Multiple time series modeling and time series theoretic statistical methods
[AD-A141891] 19 p3093 N84-29644
Earth Observing System, conclusions and recommendations 20 p3219 N84-30454
Assessment of trends of input actions of inertial objects
[BLL-M-35689-(5828.4)] 22 p3644 N84-33104
Study of the system of middle atmosphere-ionosphere using remote-sensing data
[NASA-TM-77764] 23 p3797 N84-34074
Interactive digital signal processor
[NASA-TM-83997] 24 p3944 N84-34974

TIME SHARING
Development of a GIFTS (graphics-oriented interactive finite-element time-sharing system) plotting package compatible with either PLOT10 or IBM/DSM graphics
[AD-A132195] 04 p0581 N84-13833
The effects of task structures, dynamics of difficulty changes, and strategic resource allocation training on time-sharing performance
[AD-A134112] 05 p0715 N84-14685
Objective measure of pilot workload
[NASA-CR-173296] 08 p1205 N84-17858
Writing TSO (Time Sharing Option) commands in FORTRAN
[AD-A136584] 09 p1367 N84-18925
Manual for implementing a Shared Time Engineering Program (STEP) September 1980 through September 1983
[PB84-144260] 12 p1804 N84-21765
Installation representative guide
[DE83-008451] 12 p1878 N84-22241
The normal approximation and queue control for response times in a processor-shared computer system model
[AD-A139587] 14 p2210 N84-24263
Fundamental design problems of distributed systems for the hard real-time environment
[AD-A139996] 15 p2392 N84-25358
NLTSS overview
[DE84-009536] 19 p3080 N84-29546

TIME SIGNALS
Nyquist frequency
[AD-A135023] 08 p1144 N84-17440
An overview of signal representations in signal processing languages 09 p1400 N84-19146
First results of GPS time transfer to Australia 10 p1475 N84-19635
Time interval errors of a Flicker-noise generator 16 p2480 N84-25902
A microwave time transmission system
[ESA-TT-782] 16 p2482 N84-25916
The system of time service for ocean bottom seismic observations 19 p3060 N84-29414
Simultaneous detection of time coincident signals in an adaptive Doppler tracker
[AD-D011092] 22 p3577 N84-32659
Timing performance of phased-locked loops in optical pulse position modulation communication systems
[NASA-CR-173970] 23 p3824 N84-34253

TIME TEMPERATURE PARAMETER
The transformation of liquid to amorphous solid: The time to vitrify for styrene polymerization
[AD-A143228] 22 p3547 N84-32452
Kinetic time-temperature equation for creep of heat-resistant alloys taking aging into account 23 p3708 N84-33504

TIMERS
U TIMING DEVICES

TIMING
U TIME MEASUREMENT

TIMING DEVICES
A clocking discipline for two-phase digital integrated circuits 05 p0677 N84-14455
Improvements to high speed rotating prism cameras including on board timing and event pulse generators
[MRL-TN-476] 08 p1161 N84-17557
Multichannel interval timer
[DE84-004635] 10 p1499 N84-19795
Processor-controlled timing module for LORAN-C receiver
[NASA-CR-175424] 11 p1604 N84-20504
Method and apparatus for measuring response time — thermocouples
[DE84-011042] 21 p3406 N84-31603

TIN
Metallurgical characterization of Niobium/Tin superconducting multifilamentary wires
[AD-A131018] 01 p0044 N84-10281
The relative abundances of Sn, Te, Xe, Ba and Ce
[NASA-CR-174599] 03 p0465 N84-13064
Multiseasonal and geobotanical approach in remote detection of greisenization areas in the Serra da Pedra Branca Granite, Goias State, Brazil
[E84-10070] 07 p1020 N84-16617
Use of plain copper conductors in lieu of tinned-copper for internal cables 11 p1719 N84-21213
Detinning of tin plate scrap
[BMFT-FB-T-84-045] 16 p2466 N84-25805
Variation of carrier concentration caused by band structure reconstruction in tellurium and tin-doped Al(x)Ga(1-x)As solid solutions 17 p2636 N84-26861
Study of metal-insulator transition 24 p3955 N84-35044

TIN ALLOYS
Studies on age-hardening in spinodally modulated alloys: Experimental and theoretical
[DE84-004850] 09 p1285 N84-18390
Effect of temperature on some of the mechanical properties of Cu-10Ni-6Sn spinodal alloy
[DE84-004432] 10 p1461 N84-19538
TEM studies on the deformation structure of Cu-10Ni-6Sn spinodal alloy
[DE84-004426] 11 p1635 N84-20690
Segregation of Si and Sn to the Fe(100) surface in the Fe-6.2% Si-0.03% Sn alloy
[AD-A138154] 12 p1798 N84-21726
Superconducting and semiconducting properties of electron-beam evaporated materials
[DE84-013470] 23 p3830 N84-34266
Generation of reactive stresses in TiNi alloy 24 p3875 N84-34556

TIN COMPOUNDS
NT ORGANIC TIN COMPOUNDS
NT TIN TELLURIDES
Macrocycles containing tin. Synthesis and structure of 1,10-Diphenyl-1,10-Distannabicycle (8.8.8)Hexacosane
[AD-A142703] 20 p3145 N84-29966

TIN TELLURIDES
Photoconductor fabrication for operation in the thermal infrared — lead tin tellurides
[INPE-2835-PRE/384] 02 p0298 N84-11952
Single Pb (1-x)Sn(x) Te crystal growth by vapor phase transport, with formation of a liquid/solid interface
[INPE-2811-PRE/369] 03 p0451 N84-12967
Application of regular associated solution model to the liquidus curves of the Sn-Te and Sn-SnS systems 15 p2402 N84-25418
Manufacture and characterization of Pb(1-x)Sn(x)Te photoconductors
[INPE-3045-TDL/157] 22 p3662 N84-33212

TIP DRIVEN ROTORS
Analytical and experimental investigation of stator endwall countouring in a small axial-flow turbine
[NASA-TP-2309] 22 p3536 N84-32368

TIP SPEED
Some theoretical results on the dependence of dynamic stress intensity factor on crack tip speed
[AD-P003109] 16 p2467 N84-25814

TIPS
NT BLADE TIPS
NT NOSE TIPS
NT WING TIPS
Singularities at the tip of a crack normal to the interface of an anisotropic layered composite
[AD-A131504] 01 p0096 N84-10625

TIRES
NT AIRCRAFT TIRES
Study of the contained air flow in a radial tire: Experimental
[DE84-000840] 04 p0545 N84-13591
Noise reduction of automobile tires
[MBB-BB-539-83-OE] 05 p0687 N84-14517
Vehicular pressure measuring system
[DE84-003426] 07 p1008 N84-16536
Dynamic behavior of nonuniform tire/wheel assemblies
[PB84-125541] 08 p1167 N84-17596
Driving traction on ice with all-season and mud-and-snow radial tires
[AD-A136115] 09 p1325 N84-18658
Holographic test procedures for the evaluation of complicated material composites (tires)
[BMFT-FB-T-84-096] 21 p3407 N84-31612
Mixed models and recugion techniques for large-rotation, nonlinear analysis of shells of revolution with application to tires
[NASA-TP-2343] 24 p3912 N84-34773

TIROS N SERIES SATELLITES
NT NOAA 6 SATELLITE
Weather satellites
[KNMI-152-BV-3] 18 p2802 N84-27783
Satellite activities of NOAA, 1983 22 p3540 N84-32406
Aspects of the Brazil current system according to SMS-2, NOAA-6, and Tiros-N satellites for 1979 to 1980
[INPE-2975-RPE/450] 22 p3627 N84-32982
A national program for data collection platforms: Information techniques for users
[INPE-3137-NTE/219] 24 p3858 N84-34456
Initialization of a mesoscale model for April 10, 1979, using alternative data sources
[NASA-CR-3826] 24 p3921 N84-34815
Statistical analysis and use of the VAS radiance data 24 p3929 N84-34870

TIROS SATELLITES
NT TIROS N SERIES SATELLITES

TISSUES (BIOLOGY)
NT ADIPOSE TISSUES
The Regulatory Functions of Calcium and the Potential Role of Calcium in Mediating Gravitational Responses in Cells and Tissues
[NASA-CP-2286] 02 p0262 N84-11720
Study of biological samples obtained from victims of MGM Grand Hotel fire 04 p0514 N84-13374
Bone blood flow measured by (41)Ar clearance formed by (44)Ca(n,(-)) (41)Ar
[DE83-017600] 06 p0886 N84-15761
Protein changes in leaf-sheath pulvini of barley (hordeum) induced by gravistimulation 09 p1352 N84-18832
Effects of simulated weightlessness on mammalian development. Part 1: Development of clinostat for mammalian tissue culture and use in studies on meiotic maturation of mouse oocytes 09 p1357 N84-18868
Cryomicrotome applications: Techniques for the study of skeletal materials
[AD-A137010] 10 p1545 N84-20130
Method for thermal monitoring subcutaneous tissue
[NASA-CASE-LAR-13028-1] 11 p1694 N84-21053
Radiofrequency radiation effects on excitable tissues
[AD-A137772] 11 p1695 N84-21056
Some aspects of dosimetry in studies of biological effects of nonionizing electromagnetic radiation 15 p2375 N84-25248
Biophysics space research 17 p2745 N84-27426
Ultrasonography of canine soft tissues during decompression 20 p3254 N84-30653
Effects of microwaves on cell membrane permeability
[AD-A142979] 21 p3453 N84-31913
Resolution and quantitative accuracy improvements in ultrasound transmission imaging 21 p3490 N84-32113
Morphometric and biophysical study of bone tissue in immobilization-induced osteoporosis in the growing rat 23 p3809 N84-34152

TITAN
Outer satellite atmospheres: Their extended nature and planetary interactions
[NASA-CR-174579] 05 p0764 N84-15013
Voyager observations of Saturn's rings. 1: The eccentric rings at 1.29, 1.45, 1.95 and 227 Rs 06 p0937 N84-16087
Outer satellite atmospheres: Their extended nature and planetary interactions
[NASA-CR-173395] 12 p1922 N84-22524
Titan exploration with advanced systems. A study of future mission concepts
[NASA-CR-173499] 13 p1936 N84-22593
A physical and chemical study of Titan: Atmosphere, clouds, and hazes 17 p2776 N84-27626
Radio scintillations observed during atmospheric occultations of Voyager: Internal gravity waves at Titan and magnetic field orientations at Jupiter and Saturn 21 p3525 N84-32331
Pioneer 10 and 11 (Jupiter and Saturn) magnetometer experiment — interaction of a flowing plasma with Titan and the Jovian magnetosphere
[NASA-CR-174006] 24 p3989 N84-35241

TITANATES
NT BARIUM TITANATES
NT LEAD TITANATES
NT PEROVSKITES
NT PIEZOELECTRIC CERAMICS
Surface modification of some titanate minerals subjected to hydrothermal chemical attack
[AERE-R-10799] 01 p0039 N84-10249
Edge-sealed PLZT shutters for operation in high-humidity/temperature environments
[DE83-012627] 01 p0148 N84-10971
Development of electrolysis-cell separator for 1250C operation. Advanced alkaline electrolysis cell development
[DE84-000439] 04 p0530 N84-13484

TITANIUM
A critical study of the role of the surface oxide layer in titanium bonding
[NASA-CR-174531] 01 p0041 N84-10266
Examination of the electrochemical behaviour of titanium in the LiCl-KCl melt
[BLL-OA-TRANS-3010-(6196.3)] 01 p0042 N84-10273
On the electrochemical precipation of titanium coatings
[BLL-OA-TRANS-3026-(6196.3)] 01 p0043 N84-10274
Effect of oxygen monolayer coverages on titanium sputtering yields as determined by simultaneous laser fluorescence and Auger measurements
[DE83-014716] 01 p0046 N84-10296
Structure and properties of polymers and organosilanes adsorbed onto oxidized aluminum and titanium
[AD-A130753] 01 p0050 N84-10321
Low-temperature forming of beta titanium alloys
[NASA-CR-3706] 02 p0193 N84-11253
Measurements of ultrasonic scattering from near-surface flaws
[DE83-017693] 03 p0431 N84-12827
The effect of the structure of metallo-organic complexes on the electrolytic precipitation of titanium and niobium from nonaqueous electrolytes
[BLL-OA-TRANS-3070-(6196.3)] 04 p0497 N84-13259
The electrodeposition of titanium coatings
[BLL-OA-TRANS-3057-(6196.3)] 04 p0497 N84-13260
Investigation of the possibilities for the electrodeposition of titanium from non-aqueous solutions
[BLL-OA-TRANS-3069-(6196.3)] 04 p0498 N84-13267
Current state of titanium coating methods
[BLL-OA-TRANS-3067-(6196.3)] 04 p0498 N84-13268
Hydrogen embrittlement of titanium sheet under multiaxial deformation paths
[AD-A133846] 05 p0654 N84-14296
An investigation of substrate effects on type two hot corrosion of marine gas turbine materials
[AD-A132833] 05 p0655 N84-14303
A melt for the electrolytic application of titanium plating
[BLL-OA-TRANS-3111-(6L96.3)] 06 p0804 N84-15241
Electrodeposition method
[BLL-OA-TRANS-3134-(6196.3)] 08 p1128 N84-17337
Process and cell arrangement for producing difficult to reduce elements by fused salt electrolysis
[BLL-OA-TRANS-3137-(6196.3)] 08 p1129 N84-17339
An experimental and numerical investigation of pressure-shear waves in 6061-T6 aluminum and alpha-titanium 08 p1129 N84-17345
Structural and electrochemical properties of platinum-titanium laser surface alloys 08 p1129 N84-17346
Adsorbent phosphates
[NASA-TM-76999] 09 p1277 N84-18339
Rotating cathode device for molten salt bath — to prepare metallic titanium or aluminum
[BLL-OA-TRANS-3173-(6196.3)] 09 p1317 N84-18604
Wire tensile testing for radiation hardening experiments
[DE84-005884] 11 p1634 N84-20684
Re-design and fabrication of titanium multi-wall Thermal Protection System (TPS) test panels
[NASA-CR-172247] 12 p1780 N84-21610
USSR report: Materials science and metallurgy
[JPRS-UMS-84-001] 12 p1783 N84-21633
Obtaining titanium carbide powder from titanium shavings 12 p1785 N84-21645
Nitration of intermetallide TiAl3 12 p1785 N84-21646
Equation of state for titanium dihydride
[DE84-006698] 12 p1794 N84-21698
Method and apparatus for coating substrates using a laser
[NASA-CASE-LEW-13526-1] 13 p1995 N84-22944
Prediction of long term crevice corrosion and hydrogen embrittlement behavior of ASTM grade-12 titanium — containers for radioactive waste disposal
[DE84-002575] 14 p2128 N84-23759
Study on the effects of niobium, vanadium, titanium and/or rare Earth metals on the properties and processing of high-tensile, weldable structural steels
[BMFT-FB-T-83-318] 15 p2295 N84-24775
Bimetal and multimetal galvanic corrosion prediction using long- and short-term polarization curves
[AD-A139993] 15 p2297 N84-24786
Study of low temperature plastic deformation mechanisms of alpha-titanium single crystals
[ONERA-NT-1983-7] 16 p2560 N84-28422
Electron emission and ion desorption spectroscopy of clean and oxidized Ti(0001)
[AD-A141319] 18 p2930 N84-29579
Flight service evaluation of two aluminum-brazed titanium spoilers
[NASA-CR-172371] 21 p3364 N84-31343
Ocean thermal energy conversion: Materials issues
[DE84-012094] 21 p3434 N84-31790
Influence of microalloying with titanium and boron on cold resistance of structural steel
[BLL-M-35696-(5828.4)] 22 p3551 N84-32483
Role of grain size on the brittle to ductile transition of the strongly ordered alloy Ni3Al
[DE84-014904] 22 p3556 N84-32519
High temperature electronics technology
[AD-A143571] 22 p3586 N84-32714
USSR report: Materials science and metallurgy
[JPRS-UMS-84-006] 23 p3705 N84-33489
Mechanical properties of components made from powders received by processing low-grade porous titanium 23 p3707 N84-33500
Structure and properties of polymers and organosilanes absorbed onto oxidized aluminum and titanium
[AD-A143935] 23 p3724 N84-33599
Use of concentrated solar energy to form slip castings 24 p3874 N84-34552
Explosive welding in the manufacture of titanium shells 24 p3876 N84-34562

TITANIUM ALLOYS
NT NITINOL ALLOYS
Beta titanium alloy metal-metal laminates: Fabrication, structure and mechanical properties
[AD-A130378] 01 p0043 N84-10278
Optimum microstructures for SPF (superplastic forming) using hydrovac
[AD-A130944] 01 p0044 N84-10280
Spallation and 14-MeV neutron irradiation of stabilized NbTi superconductors
[DE83-017973] 03 p0368 N84-12394
Irradiation response in titanium-modified austenitic stainless steels prepared by rapid-solidification processing. Part 1: Microstructural response to neutron irradiation
[DE84-001298] 04 p0501 N84-13283
Electrochemical etching of titanium-alloy castings
[DE84-000244] 04 p0501 N84-13286
La Recherche Aerospatiale, Bimonthly Bulletin, no. 1982-6, 211/November-December 1982
[ESA-TT-801] 04 p0515 N84-13382
Deformation and fatigue of aircraft structural alloys
[AD-A133947] 05 p0654 N84-14297
Trichite growth during oxidation of titanium and TA6V4 alloy by water vapor at high temperatures
[NASA-TM-76974] 06 p0805 N84-15248
Processing study of a polyimidesulfone adhesive
[NASA-TM-85742] 07 p0978 N84-16339
The electrochemical behaviour of titanium platinum alloys in anodic oxidation processes. 1: Kinetics and selectivity of the process of the combined formation of O2, H2S2O6 and O3 on the titanium-platinum alloy
[BLL-OA-TRANS-3093-(6196.3)] 08 p1128 N84-17336
Production of titanium powders by the electrolysis of chloride-fluoride melts with a soluble anode
[BLL-OA-TRANS-3136-(6196.3)] 08 p1126 N84-17338
An evaluation of overload retardation behavior and overload retardation models of Ti-6Al-4V sheet titanium alloy
[AD-A135548] 08 p1132 N84-17362
Alloy development, processing and characterization of devitrified titanium base microcrystalline alloys
[AD-A136589] 09 p1282 N84-18374
Deformation and fracture of P/M titanium alloys
[AD-A135612] 09 p1283 N84-18378
Effect of the overload ratio on fatigue growth behavior in Ti-6Al-4V
[AD-A136027] 09 p1283 N84-18381
Effect of transformed beta morphology and other structural features on mechanical properties in Ti-6Al-4V
[AD-A136028] 09 p1283 N84-18382
Fatigue crack propagation in Ti-Mn alloys: The role of the Bauschinger effect
[AD-A136036] 09 p1283 N84-18383
Characteristics of the mechanical properties and the fractures of an alpha beta titanium alloy
[AD-A136144] 09 p1284 N84-18386
Corrosion behavior of Ni(+)-ion irradiated NiTi alloys
[DE84-003891] 09 p1285 N84-18392
Effect of creep in titanium alloy Ti-6Al-4V at elevated temperature on aircraft design and flight test
[NASA-TM-86033] 09 p1330 N84-18685
Effects of yttrium microalloying on the epitaxial grain growth in Ti-6Al-4V weld fusion zones
[AD-A137272] 10 p1459 N84-19526
Titanium fabrication
[DE84-004374] 10 p1462 N84-19551
Precision forging of front fan blades, abridged version
[BMFT-FB-T-83-206] 10 p1472 N84-19613
Development of an isothermal forming technique for the production of precision parts made from titanium alloys
[BMFT-FB-T-83-220] 10 p1472 N84-19616
Interrelationship between temperature intervals of inverse martensite transformation and shape restoration in titanium nickelide-based alloys 12 p1786 N84-21648
Martensite transformation and shape memory in Ti0.5Ni0.5-xPd sub x system alloys 12 p1786 N84-21649
Fluctuations in chemical composition of titanium alloy Beta-solid solution in presepartion stage 12 p1786 N84-21650
Process for producing parts with deep pocketed precision cavities using P/M shape technology
[DE84-006568] 12 p1799 N84-21733
The future for titanium and superalloys — in aircraft engines
[PNR-90175] 13 p1981 N84-22742
Method and apparatus for coating substrates using a laser
[NASA-CASE-LEW-13526-1] 13 p1995 N84-22944
Additionally compressed titanium fine cast components 14 p2094 N84-23559
Superplastic transformation and diffusion welding of titanium alloys 14 p2094 N84-23562
Effect of preferred orientation on crack growth properties of Ti-6Al-4V alloys, part 2
[BR89101-PT-2] 15 p2296 N84-24780
Effect of preferred orientation on crack growth properties of Ti-6Al-4V alloys, part 1
[BR89100-PT-1] 15 p2299 N84-24802
Journal of aeronautical materials (selected articles)
[AD-A140181] 16 p2434 N84-25611
Evolution of the phonon spectrum and the density of states at the Fermi level near the martensitic transformation in NiAl, Ti(NiCo), CuZnAl and InTl alloys
[ESA-TT-767] 16 p2465 N84-25801
Deformation of bimetallic bicrystals of Alpha-Ti/Beta-Ti-13Mn
[AD-A140263] 16 p2469 N84-25822
Study of the influence of metallurgical factors on fatigue and fracture of aerospace structural materials
[AD-A140659] 17 p2623 N84-26789
Elastoplastic double-wall shells under intricate nonisothermal load 17 p2651 N84-26951
Fatigue evaluation of the molded T.A6V alloy isostatically compacted under heat. Summary of test number M9 505600 18 p2816 N84-27876
Material characterization by strain rate controlled low cycle fatigue tests and by crack propagation velocity: Summary of test number M3 430300
[IMI-679] 18 p2816 N84-27878
The use of Jominy end quench to assess the hardenability of higher strength titanium alloys
[PNR-90169] 19 p2991 N84-29957
Stress-corrosion crack-growth study of titanium alloy Ti-6Al-4V exposed to Freon PCA and nitrogen tetroxide MON-1 20 p3138 N84-29923
Oxidation-sulfidation behavior of Fe-Cr-Ni alloys containing additions of Zr, Nb, or Ti
[DE84-005411] 20 p3156 N84-30043
The effects of solid solution temperatures and cooling rates on the microstructures of BT3-1 titanium alloy 20 p3160 N84-30066
Powder metallurgy of light metal alloys for demanding applications
[AD-A142066] 21 p3366 N84-31352
Residual mechanical properties of Ti-6Al-4V after simulated Space Shuttle reentry
[NASA-TM-86294] 22 p3554 N84-32506
Effect of alloy chemistry and exposure conditions on the oxidation of titanium
[NASA-TM-86295] 22 p3555 N84-32507
Problems presented to engine builders by the recycling of metallic materials — titanium and nickel alloys for aircraft engine parts 23 p3704 N84-33482
USSR report: Materials science and metallurgy
[JPRS-UMS-84-006] 23 p3705 N84-33489
Elastic properties of textured sheets of two-phase titanium alloys 23 p3708 N84-33505
Texture effect on anisotropy of electric and magnetic properties of titanium alpha-alloys 23 p3708 N84-33506
Electron microscope study of processes of polygonization and recrystallization in alpha-phase of two-phase (alpha + beta)-titanium alloys with plate structure 23 p3708 N84-33507

Plasticity of large-grain titanium alloy type VT30 in the beta area 23 p3708 N84-33508

Low-cycle fatigue of VT1-0 alloy and changes in its fine structure at temperatures of 293-4.2 deg K 23 p3708 N84-33509

Deformation and failure of titanium aluminide 23 p3709 N84-33510

Effect of thermocyclic processing on phase composition and structure of VT22 alloy 23 p3709 N84-33511

Powder metallurgy for the economical manufacture of aeronautical components in titanium alloy [AD-B076255] 23 p3717 N84-33582

Method for refining microstructures of prealloyed powder metallurgy titanium articles [AD-D011162] 23 p3718 N84-33570

Method for refining microstructures of blended elemental powder metallurgy titanium articles [AD-D011177] 23 p3718 N84-33571

Attachment for an X-ray diffractometer for studying transformations in materials 24 p3868 N84-34513

Hydrogen embrittlement of titanium and its alloys 24 p3875 N84-34554

Electrochemical behavior of amorphous titanium-based alloy after various annealing conditions 24 p3875 N84-34555

Relationship of structure with cyclic crack resistance of Alpha-titanium alloys 24 p3875 N84-34557

Influence of conditions and medium of annealing on short-term strength and fatigue resistance of welded joints in OT4 titanium alloy 24 p3876 N84-34559

Comparative estimate of cyclic strength of welded joints in titanium alloys 24 p3876 N84-34561

TITANIUM BORIDES

Microstructure and properties of TiB2 implanted with 1-MeV nickel [DE83-014020] 01 p0154 N84-11012

Sensitivity and accuracy analysis of pulse diffusivity measurements on layered samples [DE84-002104] 08 p1165 N84-17584

X-ray line broadening studies on aluminum nitride, titanium carbide and titanium diboride modified by high pressure shock loading [DE84-003257] 10 p1463 N84-19553

Chemical vapor deposition of erosion resistant TiB-2 coatings [DE84-012351] 22 p3556 N84-32518

TITANIUM CARBIDES

Inelastic deformation of crystaline nonmetallic solids [DE83-014594] 01 p0155 N84-11020

Irradiation response in titanium-modified austenitic stainless steels prepared by rapid-solidification processing. Part 3. A model for the effect of titanium addition [DE84-001296] 04 p0500 N84-13281

Irradiation response in titanium-modified austenitic stainless steels prepared by rapid-solidification processing. Part 2. Dual-ion irradiations [DE84-001297] 04 p0500 N84-13282

Sensitivity and accuracy analysis of pulse diffusivity measurements on layered samples [DE84-002104] 08 p1165 N84-17584

Thermal properties of coating materials and their effect on the efficiency of coated cutting tools 09 p1292 N84-18440

Lubrication of mountings subject to contact corrosion — spacecraft components 09 p1296 N84-18469

X-ray line broadening studies on aluminum nitride, titanium carbide and titanium diboride modified by high pressure shock loading [DE84-003257] 10 p1463 N84-19553

Obtaining titanium carbide powder from titanium shavings 12 p1785 N84-21645

Improvements in mechanical properties in SiC by the addition of TiC particles [DE84-012352] 21 p3358 N84-31297

Procedure for the electroplating of sintered materials containing carbide or cast alloys of tungsten, molybdenum, titanium or zirconium [BLL-RISLEY-TRANS-4557-(9091.9)] 22 p3551 N84-32484

TITANIUM COMPOUNDS

NT BARIUM TITANATES
NT LEAD TITANATES
NT PEROVSKITES
NT PIEZOELECTRIC CERAMICS
NT RUTILE
NT TITANATES
NT TITANIUM BORIDES
NT TITANIUM CARBIDES
NT TITANIUM NITRIDES
NT TITANIUM OXIDES

TITANIUM DIOXIDE

U TITANIUM OXIDES

TITANIUM NITRIDES

Comparative study of TiN hard coatings produced by reactive sputtering, ion-plating and CVD technique [BLL-RARDE-TR-1094(7291.7965)] 06 p0804 N84-15236

Adhesion studies on ion plated TiN steel [BLL-RISLEY-TR-4860-(9091.9F)] 08 p1129 N84-17341

Thermal properties of coating materials and their effect on the efficiency of coated cutting tools 09 p1292 N84-18440

Sputtering as a technique for applying tribological coatings 15 p2342 N84-25059

TITANIUM OXIDES

NT RUTILE

Characterization of high temperature electrically conducting oxides [DE84-002887] 08 p1236 N84-18076

Metal oxide anodes for the photoelectrochemical generation of oxygen [DE84-004168] 10 p1456 N84-19511

Protective oxide films [DE84-004068] 10 p1461 N84-19543

H alpha and TiO band observations of RS CVn stars 13 p2069 N84-23410

Thin film models of SMSI (Show Strong Metal-Support Interactions) catalysts: Pt on oxidized titanium [AD-A140569] 17 p2767 N84-27572

Defect clusters and electrical properties in transition metal monoxides [DE84-014851] 22 p3666 N84-33242

TITRATION

Luminescence titrations of polyelectrolytes [AD-A140823] 17 p2619 N84-26763

TNT (TRINITROTOLUENE)

U TRINITROTOLUENE

TOBACCO

The effect of smoking on the non-specific resistance of the organism of seamen at sea 08 p1199 N84-17816

TOCOPHEROL

Ultrastructural evaluation of the retina in retinopathy of prematurity and correlations with vitamin E therapy [AD-A135929] 10 p1547 N84-20143

TOKAMAK DEVICES

The 2-step ECRH current-drive study [DE83-012745] 01 p0150 N84-10983

Heat conduction process in Tokamak hot-ion plasmas [DE83-014884] 01 p0150 N84-10987

High-field Tokamaks with DD-DT operation and tritium-breeding requirements [DE83-013092] 02 p0296 N84-11939

Comparative evaluation of existing concepts for a 10-tesla FED toroidal field coil [DE82-012817] 03 p0429 N84-12815

Efficient radiation-hardened, 400- and 800-keV neutral-beam injection systems [DE83-015691] 03 p0440 N84-12886

A steady-state axisymmetric toroidal system [IPPJ-643] 03 p0443 N84-12910

Ripple-reduction poloidal-field coils for Tokamak reactors [DE83-009532] 03 p0445 N84-12922

Real-time diagnostic-data-acquisition system for the Doublet 3 Tokamak fusion experiment [DE83-015871] 03 p0445 N84-12927

Tokamak fusion reactors with less than full tritium breeding [DE83-016711] 03 p0446 N84-12936

Observations of soft X-ray fluctuations with an imaging array on TEXT [DE83-018118] 03 p0447 N84-12938

TFTR alpha extraction and measurement project [DE83-018120] 03 p0448 N84-12947

Nuclear design of a very-low-activation fusion reactor [DE83-017470] 03 p0448 N84-12949

Electron-cyclotron-heating experiments in Tokamaks and stellarators [DE83-017210] 03 p0450 N84-12958

Narrow-band, near-UV, high-repetition-rate laser-induced fluorescence system for use as an dge diagnostic in fusion machine [DE84-000586] 04 p0542 N84-13567

Experimental results on finite-beta limits and transport in the ISX-B Tokamak [DE84-000258] 04 p0606 N84-14001

Ion-beam surface analysis in plasma-edge studies [DE84-001578] 04 p0607 N84-14004

CTR plasma engineering studies [DE84-001279] 04 p0607 N84-14006

Hydrogen pellet injection into Alcator C [DE83-016878] 04 p0609 N84-14018

d-d Tokamak reactor assessment [DE83-016127] 04 p0609 N84-14019

Energetic-particle stabilization of ballooning modes in Tokamaks [DE83-016205] 04 p0609 N84-14020

Hamiltonian formulation of reduced magnetohydrodynamics [DE83-016758] 04 p0609 N84-14021

Variational theory of RF-driven currents [DE83-016745] 04 p0609 N84-14022

Background information and technical basis for assessment of environmental implications of magnetic fusion energy [DE83-016300] 04 p0611 N84-14030

Impurity poloidal asymmetries and plasma rotation in the PDX Tokamak 05 p0748 N84-14914

An extreme ultraviolet study of Tokamak plasmas using a time-resolving spectrograph 05 p0748 N84-14915

Applications of hybrid numerical-simulation methods to magnetic-confinement systems [DE84-001840] 05 p0750 N84-14922

Effects of neutral beam injection on impurity transport in Tokamaks [DE84-001857] 05 p0750 N84-14928

Coupling between angular deflection and eddy currents in the FELIX plate experiment [DE84-001509] 05 p0750 N84-14927

Magnetic fluctuations in high-beta sub p Tokamak plasmas [DE83-015872] 05 p0751 N84-14929

Dissipation of magnetic energy during disruptive current termination — disruptions in tokamak reactors [IPPJ-644] 06 p0919 N84-15973

Preionization and start-up in the ISX-B Tokamak using electron cyclotron heating at 28 GHz [DE84-002261] 06 p0920 N84-15984

Engineering aspects of disruption current decay [DE84-002995] 07 p1076 N84-16998

Study of parametric instabilities during the Alcator C lower hybrid wave heating experiments [DE84-002809] 07 p1077 N84-17000

Characterization of the TEXTOR plasma edge using deposition probe techniques [DE84-003308] 07 p1078 N84-17011

Research on modeling of FED/INTOR radio-frequency heating and studies of FED/INTOR impurity-control mechanisms [DE83-016756] 08 p1233 N84-18056

ICRF waveguide couplers — tokamak devices [DE84-004042] 09 p1392 N84-19092

ICRF heating experiments on JIPP T-II [IPPJ-650] 10 p1580 N84-20352

Tokamak plasma position dynamics and feedback control [DE84-004424] 10 p1586 N84-20393

Annual review, April 1982 - March 1983 [ISSN-0547-1567] 11 p1733 N84-21303

Ion Bernstein wave heating experiment on JIPPT-II-U device [IPPJ-662] 11 p1734 N84-21305

Atomic processes for plasma diagnostics in Tokamaks 11 p1734 N84-21311

Impurity transport in Tokamaks 11 p1734 N84-21312

High resolution X-ray spectra of H- and He-like argon from the Alcator C Tokamak 11 p1735 N84-21321

Atomic and molecular processes in discharge cleaning plasmas 11 p1736 N84-21322

Magnetic field topologies of the relaxed states of turbulent discharges [DE84-004330] 11 p1737 N84-21334

Nonlinear trapped electron response for drift wave turbulence in Tokamaks [DE84-005385] 11 p1737 N84-21335

Axisymmetric, non-ideal MHD states with steady flow [DE84-006045] 11 p1738 N84-21340

Magnet design approach for pulsed Tokamak reactors [DE84-005261] 11 p1738 N84-21341

Fusion and high temperature electrolysis 11 p1740 N84-21350

Possibility of using pulsed CO2 lasers for radiation scattering diagnostics in Tokamak plasmas [BLL-CTO-2199-(9091.9F)] 12 p1909 N84-22437

Proceedings of the DOE Planning Workshop on RF Theory and Computations [DE84-006670] 12 p1910 N84-22442

Atomic data calculations for application to the diagnostics of Tokamak plasmas. FY 1982 report [DE84-006132] 12 p1910 N84-22448

Theory of anomalous tearing mode growth and the major Tokamak disruption [DE84-005383] 12 p1911 N84-22448

Inductive current startup in large Tokamaks with expanding minor radius and RF assist [DE84-006683] 12 p1911 N84-22450

A classical picture of anomalous effects in a Tokamak [IPPJ-664] 13 p2044 N84-23263

Magnetic fusion energy research and development
[DE84-007089] 13 p2045 N84-23270
Options for an ignited tokamak
[DE84-007927] 13 p2045 N84-23272
Electron Cyclotron Emission (ECE) measurements on the TORTUR 3 Tokamak
[REPT-83-148] 13 p2045 N84-23274
Saturated tearing modes in Tokamaks, renewal proposal
[DE84-006851] 14 p2229 N84-24370
Relativistic correlation theory of atomic structures
[DE84-006745] 14 p2230 N84-24372
Magnetoacoustic heating and Flux-Conserving-Tokamak (FCT) equilibria in a belt pinch
[IPF-83-4] 14 p2231 N84-24380
Start-up and quasi-stationary drive of plasma current by lower hybrid wave in the JPII T-IIU Tokamak
[IPPJ-667] 15 p2409 N84-25461
Nonlinear theory of lower hybrid current drive II
[DE84-007292] 15 p2410 N84-25469
Interaction of the neutral deuterium flux with a field-reversed configuration
[DE84-007488] 16 p2559 N84-26415
Transmission system development for electron cyclotron heating experiments of a Tokamak plasma
[AD-A140688] 17 p2786 N84-27566
Transport of deuterium, tritium and helium in a Tokamak
[REPT-84-150] 17 p2786 N84-27567
Soft X-ray electron temperature measurements on TORTUR
[REPT-84-151] 17 p2786 N84-27568
Passive and active circuits for vertical plasma stabilization
[DE84-006857] 18 p2933 N84-28599
Nonlinear interaction of tearing modes: A comparison between the Tokamak and the reversed field pinch configurations
[DE84-010582] 18 p2934 N84-28606
Particle confinement during lower-hybrid current drive in the Versator 2 Tokamak
[DE84-008941] 19 p3106 N84-29737
Advanced ICRF launchers for heating and current drive in large Tokamaks
[DE84-009092] 19 p3108 N84-29750
DDRFP transport code
[DE84-008573] 19 p3109 N84-29753
Experimental study of impurity production in the Tokapole II Tokamak
[DE84-009659] 19 p3109 N84-29754
Transmutation of manganese: Substituted steels in STARFIRE
[DE84-010402] 20 p3155 N84-30035
Plasma in diverter during intense recycling
20 p3288 N84-30877
Liquid metal breeder-coolant blanket concept
[DE84-006554] 20 p3302 N84-30971
Generalized Poisson brackets and nonlinear Liapunov stability: Application to reduced MHD
[DE84-009973] 20 p3302 N84-30972
The 3-D MHD stability of high-beta free-boundary Tokamak plasmas with finite edge-pressure-gradient and limiter stabilization
[DE84-009188] 20 p3303 N84-30976
Linear theory of lower hybrid heating
[DE84-010577] 20 p3303 N84-30979
Lower hybrid experiments at the 1 MW level on Alcator C: Heating and current drive
[DE84-010586] 20 p3304 N84-30981
Realistic modelling of lower hybrid current drive with multiple codes
[DE84-010576] 20 p3304 N84-30982
Plasma Fusion Center technical research programs
[DE84-007954] 20 p3304 N84-30983
Density variation due to wave heating in Tokamak plasmas
[DE84-009402] 20 p3305 N84-30993
Rotation and impurity transport in a Tokamak plasma with directed neutral beam injection
[DE84-008014] 20 p3306 N84-30996
Experimental observation of the shear Alfven resonance in a Tokamak
[DE84-012993] 20 p3306 N84-30998
The use of isotopically-enriched carbon probes for erosion deposition measurements in the ASDEX divertor
[DE84-012329] 20 p3307 N84-31006
Ray tracing study of electron cyclotron heating in the TBR 2 Tokamak
[INPE-3192-PRE/556] 21 p3500 N84-32181
Safety and deterministic failure analyses in high-beta D-D Tokamak reactors
[DE84-012693] 21 p3500 N84-32185
High power neutral beam heating on Doublet 3
[DE84-012471] 21 p3501 N84-32186
Investigation of neutral beam driven impurity flow reversal as an impurity control method in future Tokamaks
[DE84-008855] 21 p3501 N84-32191
Disruptive instabilities in a poloidal divertor tokamak
[DE84-013054] 21 p3501 N84-32192
Electromagnetic theory of an antenna for ICR heating of a plasma in Tokamaks
[DE84-012968] 21 p3503 N84-32200
Reliability of initial-value MHD calculations of Tokamak disruptions
[DE84-013600] 22 p3659 N84-33193
Observation of advanced particle removal rates in pump limiter simulation experiments
[DE84-014327] 22 p3660 N84-33202
Plasma dynamics 22 p3683 N84-33354
Catastrophe in plasma focus evolution
[IPPJ-686] 23 p3826 N84-34266
Impurity origin during ICRF heating in JIPP T-IIU Tokamak
[IPPJ-682] 23 p3827 N84-34271
Abnormal energy deposition on the wall through plasma disruptions
[IPPJ-684] 23 p3827 N84-34273
Solar Terrestrial Physics: Present and Future
[NASA-RP-1120] 23 p3836 N84-34332
Reconnection of magnetic fields
23 p3836 N84-34333

TOLERANCES (MECHANICS)
NT IMPACT TOLERANCES

TOLERANCES (PHYSIOLOGY)
NT ACCELERATION TOLERANCE
NT ALTITUDE TOLERANCE
NT COLD TOLERANCE
NT HEAT TOLERANCE
NT HUMAN TOLERANCES
NT RADIATION TOLERANCE
Effects of pulsed microwaves at 1.28 and 5.62 GHz on Rhesus monkeys (Macaca mulatta) performing an exercise task at three levels of work
[AD-A132057] 03 p0413 N84-12704
Effects of long-term low-level radiofrequency radiation exposure on rats. Volume 1: Design, facilities, and procedures
[AD-A134079] 06 p0885 N84-15756
Rationale for a Threshold Limit Value (TLV)R for JP-4/Jet B wide cut aviation turbine fuel
[AD-A134814] 06 p1201 N84-17827
Effects of long-term low-level radiofrequency radiation exposure on rats. Volume 3: SAR (Specific Absorption Rate) in rats exposed in 2450-MHz circularly polarized waveguide
[AD-A135376] 09 p1361 N84-18890
Effects of long-term low-level radiofrequency radiation exposure on rats. Volume 2: Average SAR and SAR distribution in man exposed to 450-MHz RFR
[AD-A135455] 09 p1361 N84-18891
A mathematical model for oxygen toxicity in man
[AD-A137379] 10 p1547 N84-20139
Adaptive effects of repeated immersion on man
15 p2376 N84-25258
Functional assessment of laser irradiation
[AD-A139507] 15 p2378 N84-25274
Effects of heat acclimation on atropine impaired thermoregulation
[AD-A139292] 15 p2380 N84-25282
Development of limb volume measuring system
[NASA-CR-171789] 16 p2495 N84-26008
Thermoregulation: Long-term microwave effects
[AD-A140844] 17 p2745 N84-27432
Human response to pyridostigmine bromide
[AD-A140960] 18 p2900 N84-28395
Comparative effects of bremsstrahlung, gamma, and electron radiation on rat motor performance
[AD-P003250] 18 p2904 N84-28417
A questionnaire assessment of estimated radiation effects upon military task performance
[AD-P003254] 18 p2905 N84-28421
Estimated effects of ionizing radiation upon military task performance: Individual combat crewmember assessment
[AD-P003255] 18 p2905 N84-28422
Health risks associated with aircraft model type among US Navy pilots
[AD-P003270] 18 p2907 N84-28435
Definitions of noise and noise pollution
19 p3069 N84-29466
Loudness, noisiness, and vibration effects
19 p3069 N84-29470
Reactions to community noise
19 p3070 N84-29476
Human exposure in low Earth orbit
[NASA-TP-2344] 19 p3070 N84-29479
Functional state and work capacity of man when breathing oxygen and hypoxic mixtures under positive pressure
20 p3254 N84-30654
Exchange of gases and physical work capacity in natives of different geographic regions
20 p3254 N84-30656
Noise as a public health problem, volume 1
[AD-A142412] 21 p3436 N84-31799
Annoyance caused by propeller airplane flyover noise
[NASA-TP-2356] 21 p3491 N84-32124
The functional condition of seamen under conditions of the southern maritime area 23 p3607 N84-34137
Visual function changes after laser exposure
[AD-A144210] 24 p3936 N84-34917

TOLLMEIN-SCHLICHTING WAVES
The response of a laminar boundary layer to sound and wall vibration
[AD-A132843] 05 p0681 N84-14474
Excitation of Tollmin-Schlichting waves in boundary layer at vibrating surface of infinite-span sweptback wing
13 p1971 N84-22792
An analysis of wave interactions in swept-wing flows
[NASA-CR-173723] 18 p2786 N84-27681

TOLUENE
Transport and relaxation processes in supercritical fluids
[DE83-015966] 03 p0373 N84-12432
Supercritical multicomponent solvent coal extraction
[NASA-CASE-NPO-15767-1] 07 p0985 N84-16255
Supersonic molecular jet studies of Toluene-Helium and Toluene-Methane clusters
[AD-A141379] 19 p2988 N84-28931
Determination of thermal-degradation rates of some candidate Rankine-cycle organic working fluids for conversion of industrial waste heat into power
[DE84-009585] 20 p3197 N84-30304

TOMBOLOS
U BARS (LANDFORMS)

TOMOGRAPHY
Ultrasound tomography by Galerkin or moment methods
[AD-A131408] 02 p0266 N84-11747
Development and construction of an apparatus based on the principle of multidimensional nuclear magnetic resonance for the formation of images of organs and parts of the body
[BMFT-FB-T-83-102] 02 p0266 N84-11752
Rational function frequency extrapolation in ultrasonic tomography
[AD-A131447] 02 p0288 N84-11868
Measurements, in vivo, of parameters of the dopamine system
[DE83-017964] 03 p0414 N84-12709
Tomographic technique in relativistic electron beam experiments
[DE84-000357] 04 p0598 N84-13949
Multiangular scanning absorption techniques for three dimensional combustion diagnostics
[AD-A133511] 05 p0648 N84-14263
High resolution 3-d tomographic imaging by wavelength and polarization diversity
[AD-A134101] 05 p0747 N84-14903
Surface wave tomography
[NASA-CR-175373] 08 p1186 N84-17728
Maximum likelihood reconstruction in emission tomography with time-of-flight information: A limited study
[AD-A135061] 08 p1217 N84-17044
Design criteria and eigensequence plots for satellite computed tomography
[NASA-CR-172787] 09 p1267 N84-18278
An adaptive, noise tolerant, frequency extrapolation algorithm for diffraction corrected ultrasound tomography
[AD-A136455] 09 p1375 N84-18982
Alterant geophysical tomography
[DE84-004794] 11 p1671 N84-20907
Application of marine acoustic systems
[PB84-141381] 11 p1692 N84-21037
The contribution of nuclear medicine to cardiology
11 p1700 N84-21092
INTFL-8401 computer tomography for interferomatic aerodynamic measurements
[AD-A139591] 14 p2101 N84-23611
A new objective method of evaluating image sharpness
[NHK-SERIAL-296] 15 p2407 N84-25449
Acoustic ray-path fluctuations induced by El Nino
[PB84-167709] 16 p2534 N84-26270
Tomographic velocity estimation in the presence of low velocity zones — seismic waves
[FOA-C-20535-E1] 18 p2880 N84-28287
The missing cone problem in computer tomography and a model for interpolation in synthetic aperture radar
[AD-A142421] 20 p3174 N84-30157
Resolution and quantitative accuracy improvements in ultrasound transmission imaging
21 p3490 N84-32113

On the closure of spaces of sums of ridge functions and the range of the X-ray transform
22 p3835 N84-33035
C.A.T. scanner for detecting flaws in metals
23 p3706 N84-33464
The potential of low dose computed tomography in assessing space flight induced bone loss
23 p3807 N84-34141

TONE
U PITCH

TONOMETRY
U PRESSURE MEASUREMENT

TONUS
U MUSCULAR TONUS

TOOLING
Front lighted optical tooling method and apparatus
[DE84-011108] 21 p3406 N84-31602

TOOLS
NT BORING MACHINES
NT DRILL BITS
NT GRINDING MACHINES
NT LATHES
NT MACHINE TOOLS
NT MILLING MACHINES
NT SAWS
NT SPACE TOOLS
NT WRENCHES
Microstructure and properties of P/M tool steels
[AD-A130980] 02 p0194 N84-11259
CADAS: A computer aided design tool for avionic systems 06 p0773 N84-15065
Advantages of using diamond tools brazed under high vacuum
[CSIR-TRANS-1709] 06 p0813 N84-15293
Numerical investigation of stress-strain state of composite working tool assembled with negative allowance
[BLL-M-35379] 09 p1328 N84-18672
Tools for active control system design
11 p1617 N84-20582
An enhanced Oct-tree data structure and operations for solid modeling 12 p1874 N84-22214
CIM's bridge from CADD to CAM: Data management requirements for manufacturing engineering
12 p1889 N84-22301
Survey of design tools for passive and hybrid low energy buildings 16 p2516 N84-26147
Development of an evaluation methodology for passive solar design tools 16 p2516 N84-26148
Novel technological solutions to treatment of threads in micrometric measuring tools
17 p2641 N84-26900
Tubing and cable cutting tool
[NASA-CASE-LAR-12786-1] 18 p2848 N84-28085
Harness formation end-effector with interchangeable tool capability
[AD-D011168] 23 p3757 N84-33813

TOPEX
Topex: Observing the oceans from Space
[NASA-CR-173490] 13 p2016 N84-23085
Calibration of precise satellite altimetry for the ionosphere and wet troposphere — TOPEX
23 p3778 N84-33955

TOPOGRAPHY
NT TERRAIN
The effects of solar incidence angle over digital processing of LANDSAT data
[E84-10007] 01 p0099 N84-10641
Making use of wind energy: A course in evaluating and choosing sites for small wind machines
[DE83-014945] 01 p0109 N84-10707
Geodynamics Branch research report, 1982
[NASA-TM-85078] 02 p0233 N84-11527
FEED (Field Exploitation of Elevation Data) evaluation
[AD-A131318] 02 p0277 N84-11612
Relative elevation determination from LANDSAT imagery 03 p0392 N84-12558
Inventoring and monitoring of landscape as a natural and cultural resource 03 p0397 N84-12594
Measuring landscape information content and distribution on a SAR-580 image
03 p0397 N84-12596
Remote sensing and topographic maps — belgium
03 p0398 N84-12600
Characterization by X-ray topography of laser-induced damage in potassium dihydrogen phosphate crystals
[DE83-012045] 03 p0454 N84-12985
Activities report on the projet DESBOD — geographical data acquisition
[REPT-5] 03 p0480 N84-13025
Baroclinic waves in the atmosphere of Mars: Observations, linear instability, and finite-amplitude evolution 04 p0621 N84-14094
The causation and variability of the northern winter quasi-stationary planetary waves
06 p0877 N84-15705
Some effects of surface heating and topography on the regional severe storm environment
06 p0880 N84-15723
Use of radar image texture in geologic mapping
07 p0968 N84-16402
Software concept for an interactive graphics system for large scale topographic cartography
07 p1019 N84-16614
Surface topographical changes measured by phase-locked interferometry
[NASA-CR-3757] 07 p1074 N84-16984
Aspects of the grinding process
[CSIR-TRANS-1694] 08 p1140 N84-17416
Application of hierarchical data structures to geographical information systems
[AD-A134999] 08 p1177 N84-17670
Empirical analysis of meandering and flow characteristics in laboratory and natural channels
[DE84-003461] 08 p1179 N84-17679
Development of ultrasonic modeling techniques for the study of crustal inhomogeneities
[AD-A134501] 08 p1187 N84-17738
Statistical aspects of ice gouging on the Alaskan Shelf of the Beaufort Sea
[AD-A134428] 08 p1196 N84-17796
Experimental investigation of channel meandering
[REPT-5/1983] 09 p1336 N84-18724
Preliminary analysis of results of a mountain area atmospheric diffusion test
[AD-A136502] 09 p1342 N84-18765
X-ray topographic measurements of strain fields
[AD-A136310] 09 p1394 N84-19103
The integrated mission-planning station: Functional requirements, aviator-computer dialogue, and human engineering design criteria
[AD-A136909] 10 p1430 N84-19352
Field strength prediction with a topographical data base: Experience gained in the Federal Republic of Germany — terrestrial mobile radio systems
10 p1476 N84-19644
Global temperature patterns 6000 years ago
[DE84-004209] 10 p1537 N84-20072
Background research in support of the new grant proposal: Research consortium for X-ray topography on line X-19 at NSLS
[DE84-004212] 10 p1589 N84-20414
Development of a 3-d microscale topography system, phase 1
[AD-A137871] 11 p1633 N84-20677
Development of a 3-d microscale topography system, phase 2
[AD-A137872] 11 p1633 N84-20678
Physical modeling of EM propagation over nonhomogeneous terrain
[DE84-000178] 11 p1644 N84-20752
Venus topography: Clue to hot-lithosphere tectonics?
11 p1679 N84-20958
The effect of vertical datum inconsistencies on the determination of gravity related quantities
[AD-A137881] 11 p1682 N84-20976
NASA/MSFC ground-based Doppler lidar nocturnal boundary layer experiment (Noblex)
[NASA-CR-3778] 11 p1731 N84-21293
Venus: Global radar properties in a geological context
11 p1754 N84-21453
Forced stationary solutions in a barotropic channel: Multiple equilibria and theory of nonlinear resonance
12 p1856 N84-22089
Influence of surface roughness of a desert
12 p1859 N84-22109
Stresses in a submarine topography under ocean waves
[DE84-005722] 12 p1863 N84-22139
FEED (Field exploitation of Elevation Data) software documentation
[AD-A137977] 12 p1879 N84-22246
Topographic EXAFS
[AD-A137116] 12 p1915 N84-22475
Development of a 3-D microscale topography system
[AD-A138809] 13 p2006 N84-23013
Scientific activity in oceanography, 1979-1982
13 p2018 N84-23084
Reports of planetary geology program, 1983
[NASA-TM-86246] 13 p2073 N84-23431
Theoretical aspects of photoclinometric terrain profiling on the Galilean satellites 13 p2074 N84-23441
Topography on Ganymede derived from photoclinometry 13 p2074 N84-23442
New models for landform evolution on Io
13 p2074 N84-23443
Geology of Dione 13 p2074 N84-23444
New maps of Lakshmi Planum and eastern Aphrodite, Venus 13 p2077 N84-23457
Geology of Maxwell Montes, Venus
13 p2077 N84-23460
Venus: Global distribution of Pioneer-Venus radar roughness and reflectivity and global correlation of altimetry, roughness and reflectivity observations
13 p2077 N84-23461
Mercury: New identification of ancient multi-ring basins and implications for geologic evolution
13 p2077 N84-23463
Differential degradation of Martian impact basins
13 p2078 N84-23466
Progressive impact cratering
13 p2078 N84-23469
Geomorphic clues to the Martian volatile inventory. 1: Flow ejecta blankets 13 p2079 N84-23474
Dark streaks on talus slopes, Mars
13 p2084 N84-23499
Inversion of topography in Martian highlands terrains
13 p2086 N84-23512
Temporal and spatial distribution of exhumed topography 13 p2087 N84-23517
Rapid extraction of relative topography from Viking orbiter images. 2: Application to irregular topographic features 13 p2087 N84-23523
Hypsometric studies of Mars.
13 p2089 N84-23530
Correction and geological analysis of lunar 3.8 CM radar data 13 p2089 N84-23531
Mapping and geological analysis of Mercury radar data 13 p2089 N84-23532
Mercury: Topographic and geologic data from Earth-based radar observations
13 p2089 N84-23533
Status and direction of tribology as a science in the 80's. Understanding and prediction
14 p2152 N84-23892
The influence of surface topography on polymer friction 14 p2153 N84-23899
Geophysical investigations of the Dufek intrusion and the surrounding region 14 p2161 N84-23945
Program for mapping Antarctica
14 p2163 N84-23954
A pleistocene sand desert in Arctic Alaska
14 p2165 N84-23966
Utilization of digital LANDSAT imagery for the study of granitoid bodies in Rondonia: Case example of the Pedra Branca massif
[E84-10120] 14 p2167 N84-23979
Evaluation of the effects of the seasonal variation of solar elevation angle and azimuth on the processes of digital filtering and thematic classification of relief units
[E84-10121] 14 p2167 N84-23980
Surface topography-connections between lubrication and failure initiation 15 p2316 N84-24898
Transmission loss calculations for systems with antennas close to the ground using a digital data base
[LFD-218] 15 p2318 N84-24914
Relating geoid anomalies, gravity anomalies and ocean topography
[AD-A140112] 15 p2354 N84-25127
Photogrammetric research at the Royal Institute of Technology, Stockholm, Sweden
15 p2358 N84-25147
GENTRI: A system for simultaneous adjustment of photogrammetric and other observations
15 p2358 N84-25152
Classification of coastal environments, shorezone profile dynamics
[AD-A139947] 15 p2373 N84-25240
Advances in planetary geology
[NASA-TM-86247] 15 p2426 N84-25567
Spectral analysis of groove spacing on Ganymede
15 p2426 N84-25570
Geologic observations of the Martian highland boundary in the Mamers Valles region 15 p2426 N84-25572
The source of Mangalla Vales
15 p2426 N84-25573
Correlation calculation in stereoscopic image pairs for the automatic acquisition of digital land models, orthopictures and height line planes
[SER-C283] 16 p2505 N84-26079
Comparative assessment of LANDSAT-D MSS and TM data quality for mapping applications in the Southeast
[E84-10138] 16 p2506 N84-26086
Field data observed during the geological excursion in the west-central region of the Sul-Riograndе Shield
[E84-10146] 16 p2508 N84-26094
Lower mantle heterogeneity, dynamic topography and the geoid
[NASA-CR-173621] 16 p2521 N84-26184
Vortical-potential flow of ideal fluid along plane with depression 17 p2646 N84-26927
A critical assessment of viscous models of trench topography and corner flow
[NASA-CR-173648] 17 p2667 N84-27005
Trapped topographic waves in Baltic Sea
17 p2698 N84-27186

Frontiers of Remote Sensing of the Oceans and Troposphere from Air and Space Platforms
[NASA-CP-2303] 17 p2711 N84-27262
On the detection of underwater bottom topography by imaging radars 17 p2718 N84-27301
Modeling of SAR signatures of shallow water ocean topography 17 p2718 N84-27302
X-ray topographic methods and application to analysis of electronic materials 18 p2940 N84-28645
Public water supply base map 1 : 200,000 19 p3040 N84-29287
Automation-associated revision conception of the general topographic map 1 : 200,000 using raster data 19 p3040 N84-29291
Bibliography of in-house and contract reports, supplement 12
[AD-A141778] 19 p3041 N84-29298
The stability of atmospheric fields induced by localized topography and heat sources
[AD-A141357] 19 p3058 N84-29400
Research activities of the Geodynamics Branch
[NASA-TM-86123] 20 p3220 N84-30455
Reports on cartography and geodesy. Series 1: Original reports, number 92
[ISSN-0469-4236] 20 p3225 N84-30495
Automatic symbol generating for topographic maps using raster data processing following the example of the general topographic map 1:200,000 (TUEK 200) 20 p3226 N84-30497
Automation assisted gathering, processing, and representation of topographic data for the production of the German basic map 1:5000 - height in Lower Saxony 20 p3226 N84-30500
Forest generalization by digital raster data processing 20 p3226 N84-30501
Cooperative line extraction of aerial photos and maps 20 p3226 N84-30502
An example of computer aided generalization of TK 25 — topographical map 1:25,000 (TK 25) 20 p3227 N84-30504
An investigation of the reproduction of the general topographic map 1:200,000 in shortened scale with a digital raster data processing system 20 p3227 N84-30505
The automated cadastral plan, a source for the topographic country map works 20 p3227 N84-30508
Some physical concepts in complex terrain meteorology derived from the Department of Energy's ASCOT program
[DE84-010059] 20 p3247 N84-30607
Continental shelf processes affecting the oceanography of the South Atlantic Bight
[DE84-010113] 20 p3251 N84-30635
Terrain analysis procedural guide for built-up areas (report no. 13 in the ETL (Engineer Topographic Laboratories) series on guides for Army terrain analysts)
[AD-A142918] 21 p3431 N84-31768
An approach to a standardized simulator data base
[AD-P003489] 21 p3511 N84-32244
Topographic effects of the Alaskan stream on shelf currents
[PB84-205137] 22 p3628 N84-32988
Participation in the Mars data analysis program: Global and regional studies of wind-indicators on the surface of Mars
[NASA-CR-173982] 24 p3992 N84-35261

TOPOLOGY
NT FIXED POINTS (MATHEMATICS)
NT HOMOTOPY THEORY
NT METRIC SPACE
A generalization of Denjoy's theorem on diffeomorphisms of the circle
[AD-A130575] 01 p0130 N84-10848
Formation of standing shocks in stellar winds and related astrophysical flows 03 p0469 N84-13088
The specific solutions of a uniform algebraic differential equation of the second order
[ISSN-0066-1953] 04 p0575 N84-13783
Twisted sums of nuclear Frechet spaces 04 p0576 N84-13800
Quasiconformal mappings with free boundary components 04 p0577 N84-13801
Splice and Malcev algebras 04 p0593 N84-13911
Invariant means on semi-topological transformation semigroups 04 p0593 N84-13912
Flow visualization and interpretation of visualization data for deflected thrust V/STOL nozzles
[NASA-TM-83554] 05 p0631 N84-14147
Central configurations of the N-body problem
[AD-A132820] 05 p0736 N84-14836
On a class of orbit closures with unique minimal sets 07 p1060 N84-16869
The Birkhoff-Lewis fixed point theorem and a conjecture of V. I. Arnold
[AD-A134534] 07 p1062 N84-16888
RADC (Rome Air Development Center) DDP (Distributed Data Processing) topology evaluation
[AD-A134701] 08 p1212 N84-17909
Efficient computation of the k-terminal reliability of directed acyclic networks
[AD-A136900] 10 p1570 N84-20286
A topological version of a theorem of Mather on twist maps
[AD-A137950] 11 p1716 N84-21189
Electromagnetic universes 11 p1757 N84-21466
Porous electrodes 1: Numerical simulation using random network and single pore models
[AD-A138382] 12 p1793 N84-21695
Application and enhancements of MOVIE.BYU 12 p1871 N84-22195
Reflections on representing non-geometric data 12 p1874 N84-22216
Modeling concepts for communication of geometric shape data 12 p1875 N84-22217
Generalized convexity and concavity properties of the optimal value function in parametric nonlinear programming
[AD-A138220] 12 p1882 N84-22265
The equicontinuous structure relation and extension of functions defined on G-spaces
[MC-ZW-192/83] 13 p2034 N84-23194
A minimization method for engineering estimation
[AD-P002372] 14 p2195 N84-24163
Kato's class field theory and abelian coverings of surfaces 14 p2210 N84-24266
Middle East Technical University Journal of Pure and Applied Sciences, volume 15, no. 2 15 p2401 N84-25406
Lower and upper bounds for EXP d+(X,Y) 15 p2401 N84-25408
Random capacities and their distributions
[CTH-MATH-1984-03] 19 p3084 N84-29649
Suggestion for a cartographic pattern recognition system using digital raster data processing methods 20 p3227 N84-30509
Research in monolithic, signal-processing circuits
[AD-A143204] 22 p3586 N84-32709
Annals of the Fourier Institute, volume 34, no. 1
[ISSN-0373-0956] 22 p3633 N84-33025
Annals of the Fourier Institute, volume 34, no. 2
[ISSN-0373-0956] 22 p3635 N84-33038
Bounded Hessian functions 22 p3636 N84-33048
Serre's spectral sequence and homotopy 22 p3636 N84-33050
IBM's token-ring LAN (Local-Area Network): A base-level communications solution
[AD-A143446] 22 p3638 N84-33063
Energetic particle sounding at the magnetopause and implications for magnetic reconnection
[NASA-CR-173963] 23 p3799 N84-34066
Local and global integrability of anomalous ward identities
[PREPRINT-384] 23 p3819 N84-34217
On the integrals of the n-body problem 23 p3819 N84-34220
Algorithms and file structures for computational geometry
[AD-A144381] 24 p3951 N84-35018
Alternative labelling schemes in electromagnetic topology
[AD-A144300] 24 p3954 N84-35037

TORNADO AIRCRAFT
U MRCA AIRCRAFT

TORNADOES
Tornado Wind Energy Conversion System (TWECS) evaluation program
[PB83-227207] 01 p0103 N84-10669
A climatology of synoptic scale atmospheric structure prior to severe convective storms 02 p0253 N84-11653
A numerical study on the evolution of tornadoes 03 p0409 N84-12679
A numerical investigation of the formation of secondary vortices in laboratory-simulated tornadoes 06 p0880 N84-15725
Relationships between thunderstorm mesoscale circulation and tornadogenesis 06 p0880 N84-15727
Numeric and fluid dynamic representation of tornadic double vortex thunderstorms
[NASA-CR-171023] 15 p2370 N84-25217
Aeroelastic problems caused by tornados and their successful treatment with technologies that result from experiences of precedent intensive technologic modernizing
[MBB-FE-294/S/PUB/110] 19 p3035 N84-29253
Natural phenomena hazards modeling project: Extreme wind-tornado hazard models for Department of Energy sites
[DE84-011157] 20 p3247 N84-30608

TOROIDAL PLASMAS
Variational method for the three-dimensional inverse-equilibrium problem in toroids: Part 2
[DE83-012925] 01 p0149 N84-10981
Fluctuations in 3 Los Alamos experiments
[DE83-014158] 01 p0151 N84-10994
Construction of three-dimensional vacuum magnetic fields with dense nested flux surfaces
[DE83-012600] 02 p0267 N84-11880
Determining the alpha dynamo parameter in incompressible homogeneous magnetohydrodynamic turbulence
[NASA-TM-85110] 02 p0295 N84-11936
The 12-T solenoid-design options for the MFTF-B upgrade
[DE83-016646] 03 p0430 N84-12817
A steady-state axisymmetric toroidal system
[IPPJ-643] 03 p0443 N84-12910
A 2-D skin-current toroidal-MHD-equilibrium code
[DE83-016916] 03 p0446 N84-12929
Recent results in the Los Alamos compact torus program
[DE83-014147] 03 p0446 N84-12930
A model for stresses in circular magnets for toroidal fusion devices
[DE83-016535] 03 p0447 N84-12937
Low-activation fusion-reactor design studies
[DE83-017688] 04 p0608 N84-14014
Transport and radiative processes in the Io plasma torus 05 p0749 N84-14916
Search for Hadron jets and large transverse momentum electrons at the SPS pp collider 06 p0911 N84-15913
Dynamics of a high current electron ring in a conventional betatron accelerator
[AD-A133291] 06 p0914 N84-15945
Radiation effects in the Joint European Torus Experiment: Guidelines for preliminary design
[R857/2] 06 p0919 N84-15971
Nonlinear interaction of toroidicity induced drift modes
[DE84-001562] 06 p0921 N84-15987
Sustained self-reversal in the reversed field pinch
[DE84-001559] 06 p0921 N84-15990
Experimental study of high beta toroidal plasmas
[DE84-004869] 07 p1078 N84-17006
Precisely aligned internal magnetic probes for the reversed-field pinch experiment, ZT-40
[DE84-003704] 08 p1233 N84-18058
Proceedings of the Advanced Bumpy Torus Concepts Workshop
[DE84-002406] 09 p1392 N84-19091
Anomalous resistivity at the field null of the FRC: A quasi-linear expression based upon flute-type modes
[DE84-003556] 09 p1393 N84-19094
Stable Alfven wave dynamo action in the reversed field pinch
[DE84-004986] 10 p1586 N84-20397
Reconnections in Spheromak formation and sustainment
[DE84-004157] 10 p1586 N84-20398
Toroidal magnetic field system for 2-MA reversed-field pinch experiment
[DE84-004322] 10 p1586 N84-20399
Annual review, April 1982 - March 1983
[ISSN-0547-1567] 11 p1733 N84-21303
Compact toroids with rotating halo-the spintor
[IPPJ-658] 11 p1734 N84-21306
Saturated tearing modes in Tokamaks, renewal proposal
[DE84-006851] 14 p2229 N84-24370
Relativistic correlation theory of atomic structures
[DE84-006745] 14 p2230 N84-24372
Translation of field-reverse configurations in the FRX C/T experiment
[DE84-007489] 14 p2230 N84-24376
Coaxial slow source: A quasi-static FRC formation concept
[DE84-007476] 14 p2230 N84-24377
Nonlinear theory of lower hybrid current drive II
[DE84-007292] 15 p2410 N84-25469
Recent progress on ATF
[DE84-007523] 15 p2411 N84-25476
Interaction of the neutral deuterium flux with a field-reversed configuration
[DE84-007488] 16 p2559 N84-26415
Transport of deuterium, tritium and helium in a Tokamak
[REPT-84-150] 17 p2766 N84-27567
Electrostatic drift models in toroidal geometry
[REPT-84-152] 17 p2767 N84-27569
The 10 plasma torus: Its structure and sulfur emission spectra 17 p2776 N84-27626

Research support for plasma diagnostics on Elmo Bumpy Torus - development of a multichannel Hall-probe based diamagnetic diagnostic instrument and observation and modeling of EBT electron rings
[DE84-006810] 18 p2933 N84-28600
The effect of trapped electrons on the beam-induced current 2
[IPPJ-873] 19 p3106 N84-29736
Particle confinement during lower-hybrid current drive in the Versator 2 Tokamak
[DE84-006941] 19 p3106 N84-29737
Role of magnetic reconnection phenomena in the reversed-field pinch
[DE84-007470] 19 p3106 N84-29748
Recent results of studies of acceleration of compact toroids
[DE84-006330] 19 p3109 N84-29752
DDRFP transport code
[DE84-006573] 19 p3109 N84-29753
Equilibrium and stability of the Los Alamos spheromak
[DE84-010064] 20 p3303 N84-30975
The 3-D MHD stability of high-beta free-boundary Tokamak plasmas with finite edge-pressure-gradient and limiter stabilization
[DE84-009188] 20 p3303 N84-30976
Steady state compact toroidal plasma production
[DE84-011060] 20 p3303 N84-30977
Theoretical studies of Elmo Bumpy Torus (EBT)
[DE84-010814] 20 p3303 N84-30978
Linear theory of lower hybrid heating
[DE84-010577] 20 p3303 N84-30979
Realistic modelling of lower hybrid current drive with multiple codes
[DE84-010576] 20 p3304 N84-30982
Plasma Fusion Center technical research programs
[DE84-007954] 20 p3304 N84-30983
Confinement time and energy balance in the CTX spheromak
[DE84-007492] 20 p3304 N84-30987
Magnetohydrodynamic equilibrium and stability of stellarators
[DE84-010731] 20 p3305 N84-30994
Safety and deterministic failure analyses in high-beta D-D Tokamak reactors
[DE84-012693] 21 p3500 N84-32185
High power neutral beam heating on Doublet 3
[DE84-012471] 21 p3501 N84-32186
A survey of the methods of MHD analysis of magnetic islands
[DE84-006858] 21 p3502 N84-32197
High-current betatron, phase 1
[AD-A143748] 23 p3824 N84-34252
Toroidal equilibrium in an iron-core reversed field pinch
[DE84-013858] 23 p3828 N84-34283

TOROIDAL SHELLS
Design of the Advanced Toroidal Facility (ATF-1)
[DE83-012841] 03 p0445 N84-12923

TOROIDS
Collective-focusing ion accelerator
[DE83-012795] 02 p0290 N84-11899
A 2-D skin-current toroidal-MHD-equilibrium code
[DE83-016916] 03 p0446 N84-12929
Dynamics of a high current electron ring in a conventional betatron accelerator
[AD-A133291] 06 p0914 N84-15945
Toroidal self-field corrections to the linear dispersion relation for the negative mass instability in a modified betatron
[AD-A135940] 09 p1377 N84-18695
Study of generalized toroidal cusp configurations
[DE84-006662] 14 p2229 N84-24369
Distortion of a narrow radio beam in a convective medium 15 p2326 N84-24966
Shaft transducer having dc output proportional to angular velocity
[NASA-CASE-NPO-15706-1] 18 p2836 N84-28017
Galvanic corrosion of an aluminum O-ring
[DE84-011345] 20 p3157 N84-30047

TORPEDOES
A method to compute the contact force of a body impacting a ring-stiffened cylindrical shell using a lumped parameter finite-difference model
[AD-A139723] 15 p2350 N84-25109

TORQUE
Flight measurements of hinged-plate wing-spoiler hinge moments — dhc-6 Twin Otter series 100 aircraft
[NASA-TM-84343] 01 p0003 N84-10021
Application of advanced materials to rotating machines 01 p0010 N84-10063
Dynamic model for an induction motor and its verification
[DE83-013738] 01 p0074 N84-10484
Generalized plastic hinge concepts for 3D beam-column elements
[PB83-247981] 04 p0516 N84-13391
A torsion testing machine for measurement of shear strength of foam
[AD-A133027] 05 p0693 N84-14552
A study to determine the accuracy of 2 computer programs in predicting hinge moments for all movable tail fins on missile bodies
[AD-A133399] 06 p0793 N84-15169
Thermal conductance and torque of thin section four-point contact ball bearings in vacuum
[ESA-ESTL-54] 06 p0853 N84-15562
Determination of the static performance of a Cuyuna cc model UL-430RR engine
[NASA-CR-175354] 07 p0953 N84-16179
Missile rolling tail brake torque system — simulating bearing friction on canard controlled missiles
[NASA-CASE-LAR-12751-1] 07 p0961 N84-16231
The stiffness torque and thermal conductance of thin-sector four-point contact ball bearings for use in spacecraft mechanisms 09 p1295 N84-18465
Computational methods for ball bearings in spacecraft 09 p1295 N84-18466
Preliminary assessment of a rotary detonation engine concept
[AD-A137492] 10 p1431 N84-19354
System for torque control of unbalanced rotor during passage through resonance 13 p1973 N84-22802
Preliminary method for estimating hinge moments of all-movable controls
[AD-A139726] 15 p2264 N84-24597
Overcoming unobservability in 3-axis stabilization of satellites 15 p2267 N84-24610
Dynamics of early planetary gear trains
[NASA-CR-3793] 16 p2496 N84-26027
Probabilistic characteristics of perturbation torques in gyroscopes with electrostatic suspension 17 p2643 N84-26913
Computer-aided design of robots 17 p2674 N84-27037
Directional gear ratio transmissions
[NASA-CASE-LAR-12644-1] 18 p2848 N84-28084
Testing and evaluation of Vespel up to 450 deg F when used in nuts and bolts as a self-locking element
[NASA-TM-86456] 21 p3412 N84-31639
Steady state performance of single-phase reaction motor 21 p3476 N84-32035
Helicopter anti-torque system using strakes
[NASA-CASE-LAR-13233-1] 23 p3692 N84-33400
Control methodologies for large space structures
[NASA-CR-173987] 24 p3861 N84-34467
Electronic 4-wheel drive control device
[NASA-TM-77618] 24 p3910 N84-34764

TORQUE CONVERTERS
All-purpose bidirectional four-quadrant controller 01 p0011 N84-10070

TORQUE MOTORS
A torque motor for a low friction single axis turntable — satellite attitude control tests
[NLR-MP-82036-U] 12 p1778 N84-21603
Materials research for advanced inertial instrumentation. Task 3: Rare earth magnetic material technology as related to gyro torquers and motors — high energy SmCo5 magnets
[AD-A140611] 17 p2762 N84-27542
Parallelism in manipulator dynamics. Revision
[AD-A142515] 20 p3196 N84-30299
Harmonic control to reduce torque pulsations in brushless dc motor drives
[AD-A144216] 24 p3897 N84-34677

TORSION
Approach to establishing the effect of aeroelasticity on aerodynamic characteristics of the space shuttle orbiter 01 p0021 N84-10133
Lateral-torsional response of structures subjected to seismic waves
[PB83-239582] 04 p0516 N84-13390
Digital instrumentation package or an improved torsion pendulum
[PB83-240424] 04 p0539 N84-13547
Interaction between local and overall buckling modes in axially stiffened cylindrical shells
[UTIAS-247] 09 p1328 N84-18674
Combined tension-torsion of a cylindrical mixture of an elastic solid and fluid
[AD-A136351] 09 p1331 N84-18689
Stress distribution in a cylindrical bar subjected to cyclic torsional loading
[AD-A139413] 14 p2158 N84-23929
Mathematical modeling of a continuum. Related modal analysis. Volume 1: Problem analysis
[ESA-CR(P)-1862-VOL-1] 16 p2552 N84-26376
A material model for reverse yielding and its application to torsion
[AD-A140897] 17 p2680 N84-27071
Fuselage torsion of a CT4 aircraft
[AD-A142753] 21 p3328 N84-31114
Cyclic torsion testing
[NASA-TM-83756] 21 p3419 N84-31687
Oscillations of elastic airplane due to wind gust 21 p3485 N84-32087

TORSIONAL STRESS
Torsion characteristics of isotropic and carbon fiber reinforced carbons
[REPT-35] 02 p0189 N84-11226
Inelastic stability of tapered, singly-symmetric beam-columns 02 p0230 N84-11509
A torsion testing machine for measurement of shear strength of foam
[AD-A133027] 05 p0693 N84-14552
Refined test methods in evaluating brittle material strengths
[AD-A133596] 06 p0861 N84-15610
System for torque control of unbalanced rotor during passage through resonance 13 p1973 N84-22802
An analysis of traction drive torsional stiffness
[NASA-TM-83712] 17 p2675 N84-27043

TORSIONAL VIBRATION
Development of an alloy with high damping properties
[BLL-M-35211-(5828.4)] 01 p0041 N84-10260
Torsional vibration measurements on fiber reinforced composites
[MBB-BB-524-82-OE] 05 p0645 N84-14240
Inverse torsional Eigenvalue problems — reconstruct the S-wave velocity of the Earth
[DE84-002568] 05 p0704 N84-14621
Determination of the viscoelastic shear modulus using forced torsional vibrations
[PB84-119700] 08 p1173 N84-17638
Investigation of the effect of blade sweep on rotor vibratory loads
[NASA-CR-166526] 09 p1256 N84-18196
Nonlinear coupling responses to variable frequency excitations 10 p1515 N84-19920
Torsional vibration of crankshafts in reciprocating machines 12 p1822 N84-21876
Influence of transient regimes of the motor on elastic mechanical vibrations in an electric drive
[BLL-M-35438-(5828.4)] 12 p1825 N84-21896
System for torque control of unbalanced rotor during passage through resonance 13 p1973 N84-22802
Dynamics of early planetary gear trains
[NASA-CR-3793] 16 p2496 N84-26027
Torsional and axial hot fatigue characterization of the Z2 NKD 18-8-5 steel (maraging 250): Specimens obtained from a bar. Summary of test number M3 418700 18 p2815 N84-27874
Fuselage torsion of a CT4 aircraft
[AD-A142753] 21 p3328 N84-31114

TORUSES
Load deflection characteristics of inflated structures
[NASA-CR-174585] 03 p0311 N84-12028
Io: Escape and ionization of atmospheric gases
[NASA-CR-174580] 05 p0702 N84-14607
Note on subharmonic solutions of a Hamiltonian vector field
[AD-A134537] 07 p1062 N84-16890
Scientific program in planetary atmospheric studies
[NASA-CR-175381] 09 p1416 N84-19263
Negative ion beam requirements for compact tori
[DE84-005752] 12 p1910 N84-22447
Laboratory infrared studies relevant to Io: A satellite to the planet Jupiter
[NASA-CR-173378] 12 p1922 N84-22522
The 10 plasma torus: Its structure and sulfur emission spectra 17 p2776 N84-27626
A direct approach to the Villarceau circles of a torus
[AD-A141653] 19 p3086 N84-29587
High-power RF compressor
[DE84-013118] 22 p3578 N84-32664

TOTAL ENERGY SYSTEMS
NT SOLAR TOTAL ENERGY SYSTEMS
Develop and test fuel cell powered on-site integrated total energy system
[NASA-CR-168159] 02 p0241 N84-11581
Develop and test fuel cell powered on-site integrated total energy systems. Phase 3: Full-scale power plant development
[NASA-CR-168294] 04 p0557 N84-13672
Assessment of internal combustion engines as drivers for heat pumps
[DE84-005072] 10 p1502 N84-19821

TOUGHNESS
NT NOTCH SENSITIVITY
Resin selection criteria for tough composite structures
[NASA-TM-83449] 01 p0048 N84-10310
Experimental investigation of tearing-instability phenomena for structural materials
[DE83-900676] 01 p0097 N84-10629
Particle-tear energy contribution to the toughness of rubber-modified epoxies
[DE83-010396] 02 p0188 N84-11223

Effect of crack curvature on stress intensity factors for ASTM standard compact tension specimens
[NASA-CR-166280] 02 p0231 N84-11513
Novel hard metal compositions and properties
[DE84-001736] 05 p0656 N84-14310
Use of subsized specimens for evaluating the fracture toughness of irradiated materials
[DE84-001500] 05 p0693 N84-14553
Modelling particle - particle interaction at the micro scale
[AD-A133969] 05 p0744 N84-14885
Correlation of fracture toughness with tensile properties for irradiated 20% cold-worked 316 stainless steel
[DE84-003954] 08 p1135 N84-17379
Influence of constituent properties and geometric form on behavior of woven fabric reinforced composites
[NASA-CR-173326] 09 p1275 N84-18326
The role of traps in the microstructural control of hydrogen embrittlement of steels
[AD-A141249] 18 p2814 N84-27863
Failure by creep cracking and creep fatigue interaction in nickel base superalloys
[AD-A141112] 19 p2993 N84-28967
Elastic-plastic fracture toughness testing methods
[AD-A142033] 19 p3036 N84-29259
Comparison of toughened composite laminates using NASA standard damage tolerance tests
20 p3145 N84-29972
Synthesis and toughness properties of resins and composites 20 p3146 N84-29973
Grain-refining heat treatments to improve cryogenic toughness of high-strength steels
[NASA-TM-85816] 20 p3152 N84-30014
Failure prediction of notched pressure vessels using the CTOD approach
[DE84-013057] 22 p3612 N84-32883

TOWED BODIES
Fiber optic bundle towed array
[AD-D011034] 19 p3105 N84-29724
Fiber optic lever towed array
[AD-D011047] 19 p3105 N84-29727
Deep-Towed Array Geophysical System (DTAGS): A hardware description
[AD-A142970] 21 p3444 N84-31851

TOWED TARGETS
U TARGETS
U TOWED BODIES

TOWERS
Establishment and discontinuance criteria for airport traffic control towers
[AD-A133461] 06 p0785 N84-15141
Frequency characteristics of spring constants of a suspended transmission line 07 p0982 N84-16361
Perturbations on the reception characteristics of antennas on Diego Garcia due to the presence of a GEODSS site
[AD-A136107] 09 p1303 N84-18520
The automatic remote sensing system on a 320 meter meteorological tower
[AD-A137144] 10 p1539 N84-20085
Distortion of the wind field by the Cabauw meteorological tower
[KNMI-WR-83-15] 12 p1862 N84-22130
A theoretical analysis of natural convection towers for solar energy conversion
[DE83-011956] 16 p2512 N84-26118
Large, horizontal-axis wind turbines
[NASA-TM-83546] 17 p2722 N84-27327
Resonance in the water circuit of a cooling tower
[S/T-REPT-VOL-1-NO-2] 20 p3188 N84-30254
Wave force investigations at the second Christchurch Bay Tower
[NMI-R177] 20 p3250 N84-30626
Bond graph time simulations using extracted modal parameters from the Nova spaceframe
[DE84-010918] 20 p3273 N84-30779

TOWING
FOSS (Fiber Optic Sensor System) FDM (Feasibility Demonstration Model) electrooptical tow cable termination
[AD-A131319] 02 p0294 N84-11925
Measurements of the impulse response and reverberation underwater in the depressurized towing tank MARIN
[TPD-208.730/1] 12 p1900 N84-22374
Design calculations associated with the laying of submarine communication cables
[NPL-DMA(A)-76] 15 p2346 N84-25077

TOWNSEND DISCHARGE
NT GAS DISCHARGES

TOXIC DISEASES
NT CARBON MONOXIDE POISONING
Physiological function of combustion gas and especially that of CN 04 p0514 N84-13376
STS-5 (Space Transport System-5) fish kill, Kennedy Space Center, Florida
[AD-A132958] 05 p0700 N84-14595

TOXIC HAZARDS
Ozone survey of C-9A
[AD-A130632] 01 p0009 N84-10052
Personal exposure to volatile organics and other compounds indoors and outdoors: The TEAM (Total Exposure Assessment Methodology) study
[PB83-231357] 01 p0115 N84-10744
Registry of toxic effects of chemical substances. User's guide to the RTECS computer tape
[PB83-223172] 01 p0115 N84-10748
Laser dye toxicity, hazards and recommended controls
[DE83-011896] 02 p0227 N84-11485
Atmospheric emergencies: Existing capabilities and future needs
[PB83-250779] 05 p0701 N84-14602
Bibliography of research reports and publications issued by the Toxic Hazards Division, 1957-1982
[AD-A133637] 05 p0713 N84-14672
An analysis of potential protective breathing devices intended for use by aircraft passengers
[AD-A132648] 05 p0716 N84-14692
Proceedings of the 3rd Tripartite Conference on Submarine Medicine: France, United Kingdom and the United States
[AD-A133150] 06 p0889 N84-15777
Proceedings of the 13th Conference on Environmental Toxicology
[AD-A134150] 07 p1027 N84-16657
Reactivity of TNT and TNA-microbial reduction products with soil components
[AD-A135512] 08 p1182 N84-17698
Risk models for risk distance prediction during release of toxic industrial chemicals caused by acts of war
[FOA-C-40185-C2(H2)] 08 p1183 N84-17707
Problems encountered in connection with the removal of small concentrations of noxious gases by the use of liquid absorbents
[BLL-OA-TRANS-3182-(6196.3)]
09 p1277 N84-18337
Generation, collection, and analysis of welding fumes
[PB84-116607] 09 p1326 N84-18663
Toxic Hazards Research Unit report, 1983
[AD-A136170] 09 p1362 N84-18896
Determination of Cr(6) and Cr(3) by ICP
[DE83-016627] 10 p1457 N84-19515
DARK: A computer based system for simulating the potential hazards from releases of pressurized gases
[FOA-C-40183-C2] 10 p1565 N84-20255
Laboratory studies of aircrew chemical protective ensemble: Effects on pilots' performance
11 p1697 N84-21066
Research planning task group study-thermal destruction
[PB84-145119] 12 p1804 N84-21764
Industrial hygiene data for F-16 aircraft refueling inside closed aircraft shelters. Supplementary
[AD-A138364] 12 p1865 N84-22154
An industrial hygiene evaluation of F-16 aircraft refueling inside closed aircraft shelters
[AD-A138501] 12 p1866 N84-22157
Toxicology of tetrachloroethylene
[MBL-1983-3] 12 p1866 N84-22159
Toxicology of styrene
[MBL-1983-11] 12 p1866 N84-22160
Interactive Hazardous Materials Information System (HMIS): Description and assessment
[AD-A138329] 12 p1919 N84-22500
Portable device for detecting and identifying hazardous vapors
[DE84-003640] 14 p2148 N84-23870
Department of Housing and Urban Development-Independent Agencies Appropriation Act, 1985 16 p2568 N84-26480
Phenomenology and modeling of heavy gas dispersion
[DE84-006800] 18 p2878 N84-28272
Guidelines for health surveillance in the NASA (National Aeronautics and Space Administration) workplace
[NASA-CR-173677] 18 p2899 N84-28390
Problem definition study on emission by-product hazards from diesel engines for confined space Army workplaces
[AD-A141377] 19 p3052 N84-29367
Evaluation of sampling methods for gaseous atmospheric samples
[PB84-190735] 20 p3151 N84-30012
The evaporation and gaseous dispersion of large-scale releases of nitrogen tetroxide
[AD-A142079] 20 p3166 N84-30104
Partitioning of toxic trace metals between solid and liquid phases in the Great Lakes
[PB84-177849] 20 p3230 N84-30525
Use of sperm enzymes to detect genotoxic agents
[AD-A142724] 20 p3260 N84-30691
OTS (Office of Toxic Substances) Information Architecture Notebook
[PB84-188655] 21 p3520 N84-32301
Passive sampling device for ambient air and personal monitoring
[PB84-210046] 22 p3599 N84-32798

TOXICITY
NT CARBON MONOXIDE POISONING
Stability of rat brain glutamine synthetase to oxygen toxicity (oxygen at high pressure)
[AD-A131049] 01 p0112 N84-10725
Aircraft maintenance and fire
[GPO-24-247] 02 p0169 N84-11112
Combustibility of electrical wire and cable for rail rapid transit systems. Volume 1: Flammability
[PB83-233742] 02 p0217 N84-11420
Combustibility of electrical wire and cable for rail rapid transit systems. Volume 2: Toxicity
[DOT-TSC-UMTA-83-4.2-VOL-2]
02 p0217 N84-11421
Optimization of GC/MS based Tenax collection method for toxic organics
[PB83-229476] 02 p0222 N84-11455
Laser dye toxicity, hazards and recommended controls
[DE83-011896] 02 p0227 N84-11485
Ozone toxicity effects consequent to prolonged, high intensity exercise
[PB83-237366] 02 p0267 N84-11755
Development of a continuous monitor for detection of toxic organic compounds
[PB83-234922] 03 p0378 N84-12461
US-Japan cooperative research on evaluation of toxicity 04 p0514 N84-13375
Dependence of evolution of toxic gases on burning conditions 04 p0514 N84-13377
Proposed plan for joint research program between Japan, the USA and Canada concerning gas toxicity in fires 04 p0514 N84-13378
Acute intramuscular toxicity (LD50) of 1,1'-trimethylenebis (4-(Hydroxyiminomethyl) pyridinium bromide) monohydrate, (TMB-4) in male mice
[AD-A133148] 06 p0886 N84-15758
Rabbit neurobehavioral toxicity from aluminum
[PB84-103266] 08 p1198 N84-17809
Rationale for a Threshold Limit Value (TLV)R for JP-4/Jet B wide cut aviation turbine fuel
[AD-A134814] 08 p1201 N84-17827
Toxic Hazards Research Unit report, 1983
[AD-A136170] 09 p1362 N84-18896
The effects of organophosphorus anticholinesterase compounds on brain glucose and energy metabolism
[AD-A137819] 11 p1695 N84-21058
Overall fire safety 11 p1727 N84-21264
Modeling of inhalation administration of vapors with capacity limited clearance
[AD-A138847] 13 p2020 N84-23098
Organophosphate toxicity: Genetics, receptors, and antidotes
[AD-A141059] 20 p3259 N84-30685
The toxicity of petroleum and shale JP5
[AD-A142670] 20 p3260 N84-30690
Remote sensing for geobotanical prospecting
22 p3613 N84-32889
Cerebral metabolism and blood brain transport: Toxicity of organophosphorous compounds
[AD-A142705] 22 p3630 N84-33005
Occupational Medicine Relevant to Aviation Medicine
[AGARD-CP-341] 22 p3631 N84-33011
Hydrazine toxicology: Impact on safety and health in military aviation 22 p3631 N84-33013
A comparative study in the animal of the toxicity of the combustion products of diverse materials
22 p3632 N84-33015

TOXICITY AND SAFETY HAZARD
Present state of research in Japan on toxicities of gases during fire 04 p0511 N84-13349
An analysis of potential protective breathing devices intended for use by aircraft passengers
[AD-A132648] 05 p0716 N84-14692
OSHA medical and workplace surveillance requirements and NIOSH recommendations (for employees exposed to toxic substances and other work hazards)
[NASA-CR-3690] 07 p0966 N84-16258
DARK: A computer based system for simulating the potential hazards from releases of pressurized gases
[FOA-C-40183-C2] 10 p1565 N84-20255

TOXICOLOGY
Event-related brain potentials: An alternative methodology for neurotoxicological research
[PB83-246116] 04 p0573 N84-13775
Bibliography of research reports and publications issued by the Toxic Hazards Division, 1957-1982
[AD-A133637] 05 p0713 N84-14672

Inhalation toxicology. 3: Evaluation of thermal degradation products from aircraft and automobile engine oils, aircraft hydraulic fluid, and mineral oil
[AD-A133221] 06 p0889 N84-15778
Proceedings of the 13th Conference on Environmental Toxicology
[AD-A134150] 07 p1027 N84-16657
Evaluation of human blood morphological composition during exercise in sealed chamber with different concentrations of ammonia 07 p1045 N84-16779
A new engineering approach for cable in fire situations using halogenated polymers 11 p1726 N84-21259
Toxicology of tetrachloroethylene
[MBL-1983-3] 12 p1866 N84-22159
Toxicology of styrene
[MBL-1983-11] 12 p1866 N84-22160
Statistical review of alcohol-involved aviation accidents
[NTSB-SS-84-03] 16 p2445 N84-25681
OTS (Office of Toxic Substances) Information Architecture Notebook
[PB84-188655] 21 p3520 N84-32301
USSR report: Chemistry
[JPRS-UCH-84-007] 24 p3867 N84-34508

TOXINS AND ANTITOXINS
NT POLYBROMINATED BIPHENYLS
Identification of a volatile phytotoxin from algae
09 p1358 N84-18876

TRACE CONTAMINANTS
Method for identifying trace contaminants in chamber atmosphere at high pressure 02 p0262 N84-11718
A system for measuring fluxes of trace gases to and from soil and vegetation with a chamber technique
[CM-61] 07 p1028 N84-16662
Dispersion experiments with sulfur hexafluoride from the 213m high meteorological mast at Cabauw in the Netherlands 08 p1183 N84-17706
EPA (Environmental Protection Agency) model development for stable plume impingement on elevated terrain obstacles
[PB84-130491] 10 p1533 N84-20036
Preliminary report on the global transport model GRANTOUR
[DE84-005596] 11 p1676 N84-20936
Georges Bank monitoring program: Analysis of trace metals in bottom sediments during the second year of monitoring
[PB84-169465] 16 p2534 N84-26269
Partitioning of toxic trace metals between solid and liquid phases in the Great Lakes
[PB84-177849] 20 p3230 N84-30525
Effect of feed gas trace components on the SRC-1 hydrogen purification unit
[DE84-012975] 22 p3562 N84-32556

TRACE ELEMENTS
Intercomparison of stable-element content of foods by statistical methods
[DE83-014029] 01 p0118 N84-10764
Studies of the voltammetric determination of trace metals in seawater
[AD-A131164] 02 p0190 N84-11233
Adsorption of humic acids and trace metals in natural waters
[NASA-CR-174481] 02 p0238 N84-11563
Remote sensing instruments for trace species measurements in the troposphere and stratosphere: A review 03 p0396 N84-12583
Resonant coherent anti-Stokes Raman scattering
[ONERA-P-1983-3] 16 p2487 N84-25954
Development and application of SIMS (Secondary Ion Mass Spectrometry) characterization techniques for the study of impurities and impurity motion in (HgCd)Te and CdTe
[AD-A140712] 17 p2619 N84-26759
Development of a method for wear measurement of thermoplast journal bearings
[OEFZS-4271] 18 p2849 N84-28093
Trace analysis in quartz
[AD-A142425] 20 p3148 N84-29988
Vacuum recycling effect on minor elements in superalloys 23 p3704 N84-33481
Trace elements in superalloys and the implications for recycling 23 p3705 N84-33484
Trace elements and residual elements in superalloys 23 p3705 N84-33487

TRACING
A gas-flow tracing technique applicable to rotating systems boundary layer on a rotating disk
[DE83-012761] 03 p0372 N84-12425

TRACKING (POSITION)
NT INFRARED TRACKING
NT MISSILE TRACKING
NT OPTICAL TRACKING
NT PHOTOGRAPHIC TRACKING
NT PURSUIT TRACKING
NT RADAR TRACKING
NT RADIO TRACKING
NT RANGE AND RANGE RATE TRACKING
NT SATELLITE TRACKING
NT SATELLITE-TO-SATELLITE TRACKING
NT SPACECRAFT TRACKING
NT STAR TRACKERS
Optimum multisensor, multitarget localization and tracking
[AD-A129605] 01 p0139 N84-10914
Tracking theory for airborne surveillance radars
[AD-A131792] 03 p0361 N84-12350
Vestibulo-ocular reflex gain in man during active versus passive oscillation and the influence of voluntary gaze-control tasks
[AD-A132006] 03 p0415 N84-12717
Dynasty 2: A nonlinear implicit code for relativistic electron beam tracking studies
[AD-A131592] 03 p0432 N84-12829
Control device manipulative behavior, arousal and performance during a compensatory tracking task
[AD-A133921] 05 p0713 N84-14670
A horizontal range versus depth solution of sound source position under general sound velocity conditions using the Lloyd's mirror interference pattern
[AD-A134097] 05 p0742 N84-14675
Distributed sensor network
[AD-A133250] 06 p0909 N84-15903
Methods of the analysis of the disruption of tracking
[AD-A133335] 06 p0918 N84-15963
A search for Earth-crossing asteroids, supplement
[NASA-CR-173255] 07 p1092 N84-17101
Evaluation of the crack growth gage concept as an individual aircraft tracking device, volume 2
[AD-A136933] 10 p1428 N84-19341
Investigation of the simultaneous application of Combined Optical Adaptive Techniques (COAT) and angle tracking
[DFVLR-FB-83-17] 10 p1579 N84-20347
Tropical cyclone report, January - December 1983
[AD-A137836] 11 p1687 N84-21000
Lie algebraic methods for particle tracking calculations
[DE84-004310] 11 p1716 N84-21196
Part-task training of tracking in manual control
[AD-A136346] 12 p1868 N84-22175
Pointing and tracking of particle beams
[AD-A136311] 12 p1902 N84-22385
Frequency encoded auditory display of the critical tracking task
[NASA-TM-85869] 13 p1931 N84-22558
Stochastic techniques applied to the smoothing treatment of bias and compression of artificial satellite tracking and telemetry data
[INPE-2909-TDL/148] 13 p1938 N84-22604
A unified approach to modeling and combining of evidence through random set theory
[AD-P002680] 13 p1978 N84-22841
Distributed estimation in the MIT/LL (Massachusetts Institute of Technology/Lincoln Laboratory) DSN (Distributed Sensor Networks) test-bed
[AD-P002897] 13 p1980 N84-22856
Optimal maneuver detection and estimation in multiobject tracking
[AD-P002899] 13 p1981 N84-22858
The use of reciprocal polar co-ordinates in passive tracking
[AD-P002906] 13 p1981 N84-22860
Manufacturing cost analysis for photovoltaic concentrator tracking structures
[DE84-006318] 13 p2009 N84-23032
Disturbance minimization techniques for linear, time-invariant dynamical systems
[AD-A136915] 13 p2033 N84-23185
On a simple adaptive tracking filter
[AD-A136955] 13 p2033 N84-23186
Documentation for the machine-readable version of the catalogue of 20457 Star positions obtained by photography in the declination zone -48 deg to -54 deg (1950)
[NASA-TM-85572] 13 p2070 N84-23416
Digital multivariable tracker control laws for the C-141-A Starlifter aircraft
[AFIT/GE/EE/82D-47] 15 p2254 N84-24533
A hardware/software simulation for the video tracking system of the Kuiper Airborne Observatory telescope
[NASA-TM-85898] 15 p2424 N84-25562
Delayed feedback optimal controller
17 p2756 N84-27498
Enhanced tracking of airborne targets using multiple model filtering techniques for adaptive field of view expansion
[AD-A141144] 18 p2926 N84-28554
An algorithm for seam tracking applications
[AD-A141705] 19 p3031 N84-29227
Robotic seam tracking
[AD-A141769] 19 p3031 N84-29228
Nonlinear observability and mixed-coordinate bearing-only signal processing
[AD-A141824] 19 p3068 N84-29603
A computer model for evaluation of launch vehicle and target tracking error assignments for direct ascent, deep space ASAT (Anti-satellite) systems
[AD-A141136] 20 p3134 N84-29696
Earth orientation effects on mobile VLBI baselines
22 p3575 N84-32642
Evolution of integrated panel structural design and interfaces for PV power plants 22 p3584 N84-32701
A comparison of storm tracking and extrapolation algorithms
[DOT-FAA-PM-84/1] 23 p3800 N84-34091
In-flight accuracy and coverage tests of ESM- and ECM-systems 24 p3849 N84-34412

TRACKING AND DATA RELAY SATELLITES
U TDR SATELLITES

TRACKING ANTENNAS
U DIRECTIONAL ANTENNAS

TRACKING FILTERS
A high-resolution target-tracking concept using spectral estimation techniques
[AD-A141921] 20 p3173 N84-30149
Application of a probabilistic tracking filter: A first evaluation with emphasis on air traffic control. Part 1: Evaluation results
[NLR-TR-82068-U-PT-1] 23 p3692 N84-33397
Application of a probabilistic tracking filter: A first evaluation with emphasis on air traffic control. Part 2: Live traffic samples
[NLR-TR-82068-U-PT-2] 23 p3692 N84-33398
Bulk acoustic resonator tracking filter
[AD-D011159] 23 p3821 N84-34233

TRACKING NETWORKS
NT DEEP SPACE NETWORK
NT GLOBAL TRACKING NETWORK
NT RADAR NETWORKS
Distributed sensor network
[AD-A131245] 01 p0140 N84-10919
Operation of a telemetered seismic network on the Alaska Peninsula
[DE83-016573] 02 p0250 N84-11636
Distributed sensor network
[AD-A133250] 06 p0909 N84-15903
Tracking and data acquisition system for the 1990's. Volume 1: Executive summary
[NASA-CR-175193] 10 p1433 N84-19369
Study of a tracking and data acquisition system for the 1990's. Volume 1: User community characteristics
[NASA-CR-175194] 10 p1433 N84-19370
Study of a tracking and data acquisition system for the 1990's. Volume 3: TDAS Communication Mission Model
[NASA-CR-175195] 10 p1434 N84-19371
Study of tracking and data acquisition system for the 1990's. Volume 4: TDAS space segment architecture
[NASA-CR-175212] 10 p1434 N84-19372
Tracking and data acquisition system for the 1990's. Volume 5: TDAS ground segment architecture and operations concept
[NASA-CR-175197] 10 p1434 N84-19373
Tracking Data Acquisition System (TDAS) for the 1990's. Volume 6: TDAS navigation system architecture
[NASA-CR-175198] 10 p1434 N84-19374
Tracking and data acquisition system for the 1990's. Volume 7: TDAS space technology assessment
[NASA-CR-175199] 10 p1434 N84-19375
Tracking and data acquisition system for the 1990's. Volume 8: TDAS frequency planning
[NASA-CR-175200] 10 p1434 N84-19376
The eddy field of the Central North Atlantic
[AD-P002664] 11 p1691 N84-21029
Multiple access adaptive antennas
13 p1976 N84-22823
Loss function used in optimization of array of coupled tracking radioelectronic systems
17 p2630 N84-26824

TRACKING PROBLEM
Distributed hypothesis formation in distributed sensor networks
[AD-A133849] 05 p0731 N84-14802
Numerical and analytical studies of beam channel tracking
[AD-A139148] 14 p2222 N84-24332
Proceedings of the Workshop on Multivariable Control Systems
[AD-A139050] 15 p2253 N84-24529
Multivariable control law theory
15 p2253 N84-24530

TRACKING RADAR
Eastern Space and Missile Center (ESMC) capability
[AD-A133788] 05 p0642 N84-14226
Pacific barrier radar 3 (PACBAR 3)
[AD-A133790] 05 p0668 N84-14392

A review of propagation and scattering factors in remote-sensing and ship-tracking by HF radar
06 p0668 N84-15655
Synthetic aperture radar target simulator
[NASA-CASE-NPO-15024-1] 18 p2627 N84-27951
Development, set up and testing of a measuring system for components of the Derived Azimuth System (DAS)
[BMFT-FB-W-84-005] 19 p2962 N84-28773
Autonomous Integrated Receive System (AIRS) requirements definition. Volume 4: Functional specification for the prototype Automated Integrated Receive System (AIRS)
[NASA-CR-175264] 22 p3576 N84-32649
Simultaneous detection of time coincident signals in an adaptive Doppler tracker
[AD-D011092] 22 p3577 N84-32659

TRACKING STATIONS
NT DEEP SPACE INSTRUMENTATION FACILITY
NT GLOBAL TRACKING NETWORK
Pacific barrier radar 3 (PACBAR 3)
[AD-A133790] 05 p0668 N84-14392
The Telecommunications and Data Acquisition Report
[NASA-CR-173885] 22 p3572 N84-32622

TRACKING STUDIES
U TRACKING (POSITION)

TRACKS
Project DELUGE: The development of a Holloman high speed test track heavy rainfield
[AD-A134810] 08 p1108 N84-17205

TRACTION
Driving traction on ice with all-season and mud-and-snow radial tires
[AD-A136115] 09 p1325 N84-18658
Elastic quarter plane and quarter space boundary value problems 11 p1667 N84-20876
Frictional hold of various sheave configurations on synthetic ropes
[AD-A139808] 15 p2343 N84-25067
Spin analysis of concentrated traction contacts
[NASA-TM-83713] 17 p2675 N84-27042
An analysis of traction drive torsional stiffness
[NASA-TM-83712] 17 p2675 N84-27043
Mechanical interactions of rough surfaces
[DE84-014097] 22 p3605 N84-32841
Solid lubrication design methodology
[NASA-CR-174690] 22 p3677 N84-33309

TRACTORS
Researching the man-machine system as a function of soil-environment system 10 p1511 N84-19694
A stochastic model for the Man-Machine-Soil-Environment System (MMSES) and the influence of vibrations 10 p1512 N84-19695
An optimum seat-suspension for off-road vehicles
10 p1512 N84-19696

TRACTS
U SITES

TRADEOFFS
Control/display trade-off study for single-pilot instrument flight rule operations 03 p0313 N84-12044
Broad specification fuels combustion technology program
[NASA-CR-168179] 06 p0812 N84-15283
Target track and stabilization for manportable direct fire missiles
[AD-A136219] 09 p1271 N84-18306
Determining cost and training effectiveness tradeoffs for trainer design: Test of an experimental model
[AD-P003455] 21 p3509 N84-32232

TRAFFIC
NT AIR TRAFFIC
On-line traffic monitor
[AD-A131358] 02 p0209 N84-11364
Aircraft and background noise annoyance effects
[NASA-TM-85744] 09 p1386 N84-19051
Experimental measurements of traffic and radio disturbances in Ente Nazionale per l'Energia Elettrica's (ENEL) mobile radio networks — Italy
10 p1478 N84-19657
Annoyance ratings for impulse and traffic sounds presented in quiet surroundings
[IZF-1983-23] 12 p1900 N84-22373
Empirical analysis of a token ring network
[AD-A138905] 13 p2030 N84-23164
Effects of aircraft and flight parameters on energy-efficient profile descents in time-based metered traffic
[NASA-CR-172338] 17 p2604 N84-26685
Annoyance ratings for impulse and traffic sounds at two different background noise levels
[IZF-1983-27] 17 p2725 N84-27345
Field surveys of carbon monoxide in commercial settings using personal exposure monitors
[PB84-211291] 22 p3599 N84-32797

TRAFFIC CONTROL
NT AIR TRAFFIC CONTROL
NT AUTOMATED EN ROUTE ATC
Dynamic control of session input rates in communication networks
[AD-A133572] 06 p0625 N84-15379
Traffic routing in a switched regenerative satellite. Volume 1, task 3: Traffic assignment
[ESA-CR(P)-1792-VOL-1] 08 p1147 N84-17483
Traffic routing in a switched regenerative satellite. Volume 2, task 4: Review (executive summary)
[ESA-CR(P)-1792-VOL-2] 08 p1147 N84-17484

TRAILERS
Braking-turning-maneuvering stability of heavy transporters 10 p1512 N84-19697

TRAILING EDGES
NT BLUNT TRAILING EDGES
An experimental documentation of trailing-edge flows at high Reynolds number
[NASA-TM-84375] 01 p0076 N84-10496
Modification of wing design to increase lift for future Airbus derivatives (NEW)
[BMFT-FB-W-83-005] 02 p0178 N84-11167
On the structure of the turbulent vortex
03 p0321 N84-12102
Instabilities in trailing vortices: Flow visualization using hot-wire anemometry 03 p0321 N84-12103
Computational and experimental study of trailing vortices 06 p0779 N84-15103
A model of the trailing edge separation on an airfoil
[AD-A126703] 06 p0782 N84-15125
Self-sustained oscillations of a shock wave interacting with a boundary layer on a supercritical airfoil
[NASA-CR-175338] 07 p0945 N84-16131
Trailing edge flow conditions as a factor in airfoil design
[NASA-CR-173294] 08 p1096 N84-17140
Calculating C-grids with fine and embedded mesh regions
[CFDL-TR-83-7] 08 p1238 N84-18090
Investigation of trailing-edge-flap, spanwise-blowing concepts on an advanced fighter configuration
[NASA-TP-2250] 09 p1251 N84-18164
Reduction of the shock wave intensity by modifying the transonic blade trailing edge
[NASA-TM-77029] 09 p1251 N84-18189
Calculation of transonic flow in a linear cascade
[NASA-TM-83697] 15 p2255 N84-24539
An algorithm for the prediction of unsteady potential flow about an arbitrary aerofoil
[GU-AERO-8306] 15 p2257 N84-24553
The study of an idealized wing/body junction
[AD-A139933] 15 p2257 N84-24559
Theoretical and experimental investigations of asymmetric turbulent supersonic free shear layers
21 p3323 N84-31088

TRAILING-EDGE FLAPS
Analysis of pressure distributions on a wing with an oscillating trailing edge flap in subsonic and transonic flow 04 p0478 N84-13145
Wake profile measurements of fixed and oscillating flaps
[NASA-CR-166602] 24 p3852 N84-34428

TRAILS
U TRACKS

TRAINEES
U STUDENTS

TRAINERS
U TRAINING DEVICES

TRAINING
U EDUCATION

TRAINING AIRCRAFT
NT ALPHA JET AIRCRAFT
NT JAGUAR AIRCRAFT
NT T-2 AIRCRAFT
NT T-38 AIRCRAFT
Air Force and Navy trainer aircraft acquisition programs
[PB83-231076] 01 p0002 N84-10012
Analysis of the pilot conversion process for the Air Force T-46A jet trainer aircraft
[AD-A134404] 08 p1203 N84-17845
The cumulative exceedance distribution for accelerations due to turbulence encountered by a CT/4A air trainer
[AD-A135640] 09 p1258 N84-18211
Swedish Air Force maintenance programme for aged transparent enclosures for jet trainer and jet fighter aircraft
[AD-P003208] 17 p2593 N84-26621
Proposed crashworthiness requirements for the Australian Basic Trainer
[AD-A140850] 17 p2603 N84-26682
Fuselage torsion of a CT4 aircraft
[AD-A142753] 21 p3328 N84-31114
Operating costs of aircraft and flight simulators
[AD-A144241] 24 p3969 N84-35132

TRAINING ANALYSIS
Companion trainer aircraft: Concept test
[AD-A131378] 02 p0268 N84-11757
Computer-based training starter kit
[PB83-248815] 04 p0574 N84-13780
Evaluation results for the interactive video competency recognition system
[AD-A133052] 06 p0692 N84-15796
Computer based landing signal officer carrier aircraft recovery model
[AD-A133507] 06 p0894 N84-15806
An introduction to human factors for engineering managers: Framework for a teaching unit
[AD-A135958] 10 p1592 N84-20428
Part-task training of tracking in manual control
[AD-A136346] 12 p1868 N84-22175
Successful use of microcomputers in classroom instruction
[RAND/P-6853] 12 p1876 N84-22229
Aeromedical support in military helicopter operations
16 p2536 N84-26280
Safety training priorities
[AD-A141711] 19 p3002 N84-29026
The US Army model Ada (trademark) training curriculum
[AD-P003415] 20 p3269 N84-30747
Teaching Ada (trademark) at Hampton Institute
[AD-P003420] 20 p3270 N84-30752
Teach Ada (trademark) as the student's first programming language?
[AD-P003422] 20 p3270 N84-30754
Ada (Trademark) training considerations
[AD-P003560] 21 p3335 N84-31164
Marine Corps ground simulator training needs in the 1985-1995 time frame
[AD-P003465] 21 p3511 N84-32242
Special features of information presentation in teaching systems
[BLL-M-35604-(5828.4)] 21 p3516 N84-32273
ADA (trademark) training curriculum. Programming methodology m203 teacher's guide
[AD-A143581] 22 p3641 N84-33082
ADA (trademark) training curriculum. Basic ADA programming l202 teacher's guide, volume 1
[AD-A143584] 22 p3641 N84-33083
An analysis of the effectiveness of the problem solving skills for managers training package--USCG
[AD-A144017] 23 p3834 N84-34317
Problems of improving management of use of computer technology in higher schools 24 p3940 N84-34944

TRAINING DEVICES
NT TEACHING MACHINES
Effects of behavioral objectives and instructions on earning a category task
[AD-A130386] 01 p0116 N84-10750
Extended development procedure EDeP user's manual
[AD-A131381] 01 p0116 N84-10756
Integrated Cuing Requirements (ICR) study: Feasibility analysis and demonstration study
[AD-A131039] 01 p0117 N84-10758
Visual accommodation trainer-tester
[NASA-CASE-ARC-11426-1] 03 p0338 N84-12193
Computer-based training starter kit
[PB83-248815] 04 p0574 N84-13780
Report of the Faculty Working Group on Computers
[AD-A132706] 05 p0729 N84-14784
Aircrew training devices: Utility and utilization of advanced instructional features. Phase I: Tactical Air Command
[AD-A135052] 08 p1106 N84-17190
A reliability and failure mode analysis of celestial training device microcomputers employed by SAC and MAC
[AD-A135003] 08 p1209 N84-17885
Aircraft simulator: Multiple-cockpit combat mission trainer network
[AD-A137182] 10 p1432 N84-19363
Interactive videodisc design and production, workshop guide
[AD-A136830] 10 p1496 N84-19791
Processes of skill performance: A foundation for the design and use of training equipment
[AD-A136879] 10 p1550 N84-20160
Automated Instructional Media Selection (AIMS)
[AD-A135749] 10 p1552 N84-20168
Pilot behavior models for LSO (Landing Signal Officer) training systems
[AD-A135823] 10 p1552 N84-20169
Space Shuttle inflatable training articles
[NASA-CR-171761] 11 p1622 N84-20618
Space Shuttle inflatable training articles. Appendices D and I: Drawings
[NASA-CR-171762] 11 p1622 N84-20619
Educational aids in aircraft combat survivability
[AD-A139090] 13 p1931 N84-22556

Device 2E6 (ACMS) Air Combat Maneuvering Simulator instructor console review
[AD-A139972] 13 p1935 N84-22587
Skunkworks 81 revisited: An update on acquisition strategy
[AD-P002759] 13 p2051 N84-23306
Computer aided layout of procedure information for training and job aiding
[AD-A139347] 14 p2206 N84-24236
Psychological research on advanced terrain representation: Formatting the visual material
[AD-A139782] 15 p2362 N84-25288
The design and production of a procedure training aid using the procedure learning format and the computer automated page layout (PLA) routine
[AD-A139986] 15 p2383 N84-25292
APL (A Programming Language) TUTOR: An on-line instructional facility
[AD-A140117] 15 p2393 N84-25359
Uninstalled aero engine testing in operation in the Royal Air Force 16 p2453 N84-25731
Pyrotechnic clear path egress system for the T-38 trainer aircraft
[AD-P003184] 17 p2589 N84-26597
Proposed crashworthiness requirements for the Australian Basic Trainer
[AD-A140850] 17 p2603 N84-26682
Research issues in training device design: The organization of a data base
[AD-A140815] 17 p2611 N84-26710
Using comparison-based methods for predicting and designing
[AD-P003364] 18 p2913 N84-28477
Simulated 3-dimensional computer graphics training display for air weapons controllers. Volume 2: Users guide
[AD-A141336] 19 p3075 N84-29510
The Army Ada (trademark) education program
[AD-P003414] 20 p3269 N84-30746
Ada (Registered trademark) training curriculum. Software engineering for managers. M101: Teachers exercise guide
[AD-A142429] 20 p3272 N84-30767
Ada (registered trademark) training curriculum. Ada (registered trademark) for software managers, L201. Teachers' guide: Volume 1
[AD-A142430] 20 p3272 N84-30768
Ada (registered trademark) training curriculum. Ada (registered trademark) for software managers, L201. Teachers guide: Volume 2
[AD-A142431] 20 p3272 N84-30769
Ada (Registered trademark) training curriculum. Software engineering for managers. M101: Teachers guide
[AD-A142432] 20 p3272 N84-30770
Proceedings of the 5th Interservice/Industry training equipment conference Volume 1
[AD-A142774] 21 p3508 N84-32223
A wide field-of-view CRT projection system with optical feedback for self alignment
[AD-P003447] 21 p3508 N84-32224
Image generator architectures and features
[AD-P003449] 21 p3508 N84-32226
New concepts in aircrew training using computer generated imagery: A study report
[AD-P003451] 21 p3509 N84-32228
On-line task analyses in maintenance simulation
[AD-P003452] 21 p3509 N84-32229
Concurrency of design criteria: A key to trainer readiness
[AD-P003454] 21 p3509 N84-32231
Determining cost and training effectiveness tradeoffs for trainer design: Test of an experimental model
[AD-P003455] 21 p3509 N84-32232
Cost-effective and efficient maintenance training devices: A user accepted design process
[AD-P003456] 21 p3509 N84-32233
Training capabilities: The facility part of the equation
[AD-P003457] 21 p3510 N84-32234
DMA and CIG: A shotgun wedding
[AD-P003459] 21 p3510 N84-32236
An adaptive CBT (Computer Based Training) courseware authoring system to meet the needs of military authors
[AD-P003460] 21 p3510 N84-32237
User friendly authoring languages: An alternative approach
[AD-P003461] 21 p3510 N84-32238
Effectiveness of multi-year and advance procurement contracts
[AD-P003462] 21 p3510 N84-32239
Managing aircraft/simulator concurrency
[AD-P003463] 21 p3511 N84-32240
Managing a low quantity, high technology trainer development program
[AD-P003464] 21 p3511 N84-32241
VHSIC (Very High Speed Integrated Circuits) for training systems
[AD-P003484] 21 p3513 N84-32251
Microprocessors in aircrew training devices
[AD-P003485] 21 p3513 N84-32252
Some management initiatives to improve embedded commercial computer and training device life cycle support
[AD-P003494] 21 p3514 N84-32260
Automated software testing
[AD-P003496] 21 p3515 N84-32264
Fleet project team participation in major aviation training device development, acquisition and support
[AD-A144162] 24 p3857 N84-34452
F-15 Limited Field of View visual system training effectiveness evaluation
[AD-A144309] 24 p3938 N84-34925
Ada training curriculum. Introduction to software engineering, M102: Teachers' guide
[AD-A144236] 24 p3945 N84-34980

TRAINING EVALUATION
A review of major issues relating to human-machine integration in the development of military systems
[AD-A136739] 10 p1554 N84-20184
Evaluation of the BCT (Basic Cadet Training) paraprofessional counselor training at the United States Air Force Academy
[AD-P003244] 18 p2903 N84-28411
Use of self assessment in estimating levels of skill retention
[AD-P003345] 18 p2911 N84-28465
Using comparison-based methods for predicting and designing
[AD-P003364] 18 p2913 N84-28477
Reverse engineering of the multiple launch rocket system. Human factors, manpower, personnel, and training in the weapons system acquisition process
[AD-A142849] 21 p3349 N84-31247
Proceedings of the 5th Interservice/Industry training equipment conference Volume 1
[AD-A142774] 21 p3508 N84-32223
Proceedings of the 5th Interservice-Industry Training Equipment Conference, volume 2
[AD-A142775] 21 p3515 N84-32266
Results of a questionnaire on the teaching of Computer-Aided Engineering (CAE) on undergraduate courses
[TT-8404] 24 p3937 N84-34919
F-15 Limited Field of View visual system training effectiveness evaluation
[AD-A144309] 24 p3938 N84-34925

TRAINING SIMULATORS
NT COCKPIT SIMULATORS
NT FLIGHT SIMULATORS
NT SPACECRAFT CABIN SIMULATORS
A pilot/vehicle model analysis of the effects of motion cues on Harrier control tasks
[AD-A136291] 09 p1258 N84-18209
US Army Test and Evaluation Command test operations procedure. Determination of range danger areas
[AD-A139813] 15 p2270 N84-24629
A review of the literature on training simulators. Translators: Transfer of training and simulator fidelity
[AD-A142732] 20 p3263 N84-30700
Closing the gap between aircraft and simulator training with Limited Field-Of-View (LFOV) visual systems
[AD-P003448] 21 p3508 N84-32225
Pilot oriented performance measurement
[AD-P003450] 21 p3508 N84-32227
Marine Corps ground simulator training needs in the 1985-1995 time frame
[AD-P003465] 21 p3511 N84-32242
An approach to a standardized simulator data base
[AD-P003469] 21 p3511 N84-32244
Synthetic aperture radar simulation
[AD-P003474] 21 p3512 N84-32246
A laser image generation system for helicopter Nap-Of-the-Earth (NOE) flight training
[AD-P003481] 21 p3512 N84-32248
Microprocessors in aircrew training devices
[AD-P003485] 21 p3513 N84-32252
Increased readiness through modularity
[AD-P003491] 21 p3514 N84-32257
Profit responsibilities in the simulation and training equipment industry
[AD-P003497] 21 p3515 N84-32263
Manned maneuvering unit simulations on the Space Operations Simulator 24 p3864 N84-34490

TRAJECTORIES
NT ASCENT TRAJECTORIES
NT DESCENT TRAJECTORIES
NT EARTH-MARS TRAJECTORIES
NT ELECTRON TRAJECTORIES
NT INTERPLANETARY TRAJECTORIES
NT MISSILE TRAJECTORIES
NT PARTICLE TRAJECTORIES
NT RENDEZVOUS TRAJECTORIES
NT SPACECRAFT TRAJECTORIES
Time controlled descent guidance algorithm for simulation of advanced ATC systems
[NASA-TM-84373] 01 p0007 N84-10043
Some aspects of flight trajectory control in future avionic systems for combat aircraft 03 p0316 N84-12066
A study of the return to isotropy of homogeneous turbulence 06 p0780 N84-15110
FOD (Foreign Object Damage) generation by aircraft tires — probability of engine ingestion and airfield surface movements
[AD-A133319] 06 p0786 N84-15146
Automated en route air traffic control algorithmic specifications. Volume 3: Flight plan conflict probe
[AD-A136795] 10 p1425 N84-19319
Automated en route air traffic control algorithmic specifications. Volume 2: Airspace probe
[AD-A136850] 10 p1426 N84-19324
Automated en route air traffic control algorithmic specifications. Volume 1: Trajectory estimation
[AD-A137068] 10 p1426 N84-19328
A study of the relation between crop growth and spectra reflectance parameters 12 p1833 N84-21949
Comparison of a simplified version of TRACKER with an analytic solution to a model ray tracing problem
[DE84-007091] 12 p1848 N84-22044
An intersection algorithm for moving parts 12 p1871 N84-22193
The planet crossing asteroid survey: Progress in the analysis of populations and terrestrial-planet cratering rates 13 p2075 N84-23449
Application of the principal component method to trajectory estimation
[AD-P002951] 14 p2199 N84-24191
Trajectories of radio waves in linear layer with isometric inhomogeneities 17 p2631 N84-26833
Ray trajectories in stochastic media with linear dependence of deterministic velocity component on depth 17 p2702 N84-27211
A maximum-likelihood approach to image segmentation by texture
[AD-A142323] 19 p3090 N84-29619
STS-13 (41-C) BET products
[NASA-CR-172350] 20 p3134 N84-29901
Proton-induced single event upsets in 71 Earth-satellite environments
[AD-A142435] 20 p3272 N84-30771
Spinorial relativistic rotator: The transformation from quasi-Newtonian to Minokowski coordinates
[DE84-009091] 20 p3282 N84-30839
Uncertainty covariances in robotics applications
[DE84-013417] 22 p3605 N84-32843
Plasma and magnetospheric research
[NASA-CR-171157] 23 p3827 N84-34275

TRAJECTORY ANALYSIS
Captive trajectory system test planning information for AEDC supersonic wind tunnel (A) and hypersonic wind tunnels (B) and (C)
[AD-A136439] 09 p1259 N84-18217
Automated en route air traffic control algorithmic specifications. Volume 3: Flight plan conflict probe
[AD-A136795] 10 p1425 N84-19319
Lie algebraic methods for particle tracking calculations
[DE84-004310] 11 p1716 N84-21196
Recent developments in store separation and grid survey techniques using the ARA Two-Sting Rig 14 p2099 N84-23595
A self-contained captive trajectory system for a blowdown wind tunnel 14 p2099 N84-23596
The accelerated light model technique of store separation as developed and used at British Aerospace, Brough 14 p2099 N84-23597
Study of aerospace materials, coatings, adhesions and processes. Aircraft icing processes
[AD-A139743] 15 p2257 N84-24557
On the stability of flight vehicles in the low Reynolds number non-linear regime
[AD-A140008] 15 p2258 N84-24561
Seeing Halley's Comet: A guide for observers in the Northern Hemisphere
[NASA-CR-173604] 16 p2574 N84-26517
TOPEX orbital radiation study
[NASA-TM-85447] 16 p2582 N84-26562
Final STS-11 (41-B) best estimate trajectory products: Development and results from the first Cape landing
[NASA-CR-172349] 18 p2802 N84-27786
Radar data smoothing filter study
[NASA-CR-168347] 18 p2844 N84-28059
NEMAR plotting computer program
[NASA-CR-165831] 18 p2920 N84-28516
Investigation of three dimensional mesh generation with precise controls
[AD-A142246] 19 p3089 N84-29614

TRAJECTORY CONTROL
NT TRAJECTORY OPTIMIZATION
Adaptive control strategies for computer-controlled manipulators 13 p2023 N84-23114
Base blend projectiles: Range calculation program and efficiency comparisons
[FOA-C-20516-D2] 15 p2280 N84-24695
Inertial-optical attitude determination and model following control of maneuvering spacecraft
[NLR-MP-83053-U] 17 p2616 N84-26742
Investigation of three dimensional mesh generation with precise controls
[AD-A142246] 19 p3089 N84-29614
Mission and trajectory design for the Venus orbiting imaging radar 19 p3120 N84-29831
Propulsion in a life-saving role for ACES 2
20 p3141 N84-29942

TRAJECTORY MEASUREMENT
La Recherche Aerospatiale, Bimonthly Bulletin, no. 1983-1/212, January-February 1983
[ESA-TT-814] 03 p0429 N84-12810
Application of the principal component method to trajectory estimation
[AD-P002951] 14 p2199 N84-24191
NEMAR plotting computer program
[NASA-CR-165831] 18 p2920 N84-28516

TRAJECTORY OPTIMIZATION
Minimum time turns with direct sideforce
[AD-A136958] 10 p1429 N84-19342
Feedback laws for fuel minimization for transport aircraft 11 p1617 N84-20579
Computer optimization of a linac injector trajectory
[DE84-005034] 15 p2408 N84-25456
Flights to asteroids with space vehicle maneuvers near Venus, Earth, Mars and Jupiter
19 p2973 N84-28844
Low thrust orbit optimization for interplanetary missions, volume 1
[ESA-CR(P)-1904-VOL-1] 23 p3697 N84-33430
Low thrust orbit optimization for interplanetary missions, volume 2
[ESA-CR(P)-1904-VOL-2] 23 p3697 N84-33431
The generic local time-optimal stabilizing controls in dimension 3
[AD-A144662] 24 p3952 N84-35027

TRANSCEIVERS
U TRANSMITTER RECEIVERS

TRANSCENDENTAL FUNCTIONS
NT COSINE SERIES
NT EXPONENTIAL FUNCTIONS
NT LOGARITHMS
NT PERIODIC FUNCTIONS
NT TANGENTS
The specific solutions of a uniform algebraic differential equation of the second order
[ISSN-0066-1953] 04 p0575 N84-13783
On the growth of the spherical derivative of a meromorphic function 04 p0575 N84-13785
Finding the roots of the transcendental equations in the problem of determining the thermal conductivity of a plate under heterogeneous boundary conditions
[BLL-M-35602-(5828.4)] 19 p3082 N84-29554
Algorithmic integration of elementary transcendental functions on an algebraic curve
22 p3636 N84-33052
Multi-length arithmetic implementation and uses
[MR-179] 24 p3950 N84-35008

TRANSDUCERS
NT DIGITAL TRANSDUCERS
NT ELECTROACOUSTIC TRANSDUCERS
NT ELECTRONIC TRANSDUCERS
NT HYDROPHONES
NT LOUDSPEAKERS
NT MAGNETIC TRANSDUCERS
NT MICROPHONES
NT MODE TRANSFORMERS
NT PIEZOELECTRIC GAGES
NT PIEZOELECTRIC TRANSDUCERS
NT PIEZORESISTIVE TRANSDUCERS
NT PRESSURE SENSORS
NT SOUND TRANSDUCERS
NT THERMOPILES
NT ULTRASONIC WAVE TRANSDUCERS
Thin film strain transducer — in-flight monitoring of balloon film strain
[US-PATENT-APPL-SN-526770]
03 p0376 N84-12448
Simplified analysis of a capacitive resonant transducer with a SQUID amplifier — gravitational antennas
[IFSI-83-4] 05 p0686 N84-14508
A magnetically suspended linearly driven cryogenic refrigerator 06 p0820 N84-15345
Vehicular pressure measuring system
[DE84-003426] 07 p1008 N84-16536
Investigation of high efficiency large TBW line acoustic wave convolvers
[AD-A135686] 09 p1387 N84-19056
Determining and modeling the response of piezoresistance transducers to dynamic loading
[AD-A137121] 10 p1496 N84-19788
Ultrasonic transducer arrays for nondestructive testing
11 p1645 N84-20757
Twelfth Transducer Workshop
[AD-A137304] 11 p1657 N84-20809
Performance evaluation of sensors
[AD-P002675] 11 p1657 N84-20812
Test and evaluation of radioactively contaminated transducers and transmitters
[AD-P002676] 11 p1657 N84-20813
Non-self generating transducer signal conditioning technique
[AD-P002677] 11 p1657 N84-20814
Space shuttle main engine turbopump transducer
[AD-P002680] 11 p1658 N84-20817
An extended range pendulous velocity gage
[AD-P002683] 11 p1658 N84-20820
Shock isolated accelerometer
[AD-P002692] 11 p1660 N84-20827
Extended-range pendulous velocity gage
[DE83-012749] 12 p1819 N84-21856
Acoustic and photoelectric burnout detection of T-burner grains 13 p1946 N84-22650
Comparison of the force scale up to 1 MN between the Physikalisch-Technischen Bundesanstalt (PTB), West Germany and the Technical Research Centre of Finland (VTT)
[VTT-229] 15 p2336 N84-25021
Equipment and results of test of cooler for electro-optical transducer 17 p2636 N84-26666
Shot waves in frozen ground
17 p2703 N84-27218
Thin film strain transducer
[NASA-CASE-WLP-10055-1] 18 p2838 N84-28015
Strain gage calibration
[NASA-CASE-LAR-12743-1] 18 p2839 N84-28019
Elastic domain wall waves in ferroelectric ceramics and single crystals
[AD-A142393] 20 p3308 N84-31011
A superconducting microwave parametric converter transducer sensitive to 10 to the minus nineteenth power m harmonic motion 21 p3489 N84-32112
Inductive transducer for displacement-to-frequency conversion 22 p3567 N84-32594
Spectroscopic research at high pressure and variable temperature
[AD-A143759] 23 p3713 N84-33537

TRANSFER
U TRANSFERRING

TRANSFER FUNCTIONS
NT MODULATION TRANSFER FUNCTION
NT OPTICAL TRANSFER FUNCTION
The effect of coordinate system rotation on spherical harmonic expansions: A numerical method
[AD-A131974] 03 p0425 N84-12785
On sensitivity, compensation and the approach to the asymptotes in multivariable root-locl
[RR-222] 03 p0426 N84-12795
The use of a microcomputer system as an aid to classical and digital control system design and analysis
[AD-A132945] 05 p0720 N84-14718
Channel tracking errors and the adaptive multiple-beam antenna
[AD-A134596] 07 p0994 N84-16443
Comments on bounded error adaptive control
[NASA-CR-173139] 07 p1057 N84-16848
Application of noise waves and scattering/scattering-transfer matrices for noise analysis of microwave mixers
[REPT-S-137] 09 p1305 N84-18529
Volterra transfer functions from pulse tests for mildly nonlinear channels
[AD-A135703] 09 p1308 N84-18553
Algorithms for computing (H sup (infinity symbol)) optimal transfer functions
[PB84-127448] 09 p1380 N84-19015
Transfer function bounds for partial-unit-memory convolutional codes based on reduced state diagram
10 p1474 N84-19628
Derivation of linearized transfer functions for switching-mode regulations. Phase A: Current step-up and voltage step-up converters
[NASA-CR-175219] 10 p1485 N84-19707
Source signature recovery in reverberant structures
10 p1515 N84-19922
Real-time flutter analysis
[NASA-CR-170412] 11 p1605 N84-20512
Flying qualities criteria for supersugmented aircraft
11 p1615 N84-20569
Identification of multivariable high-performance turbofan engine dynamics from closed loop data
11 p1617 N84-20580
Aircraft ground vibration test instrumentation system
[AD-P002694] 11 p1660 N84-20829
Frequency domain approach to structural analysis
[DE84-005110] 11 p1669 N84-20689
An overview of recursive least squares estimation and lattice filters
[AD-A137554] 11 p1713 N84-21186
The subjective function approach for analyzing systems
[RAND/P-6893] 11 p1718 N84-21206
A TWT amplifier with a linear power transfer characteristic and improved efficiency
[NASA-TM-83590] 12 p1810 N84-21803
Analysis of the transfer function model of tray-type binary distillation columns with liquid hydraulic delay
[RR-234] 13 p1975 N84-22816
Model reference adaptive control systems: The hybrid approach 13 p2031 N84-23169
A study of helicopter gust response alleviation by automatic control
[NASA-TM-85870] 14 p2111 N84-23655
Load-transfer criteria for numerical analysis of axially loaded piles in sand. Part 1: Load-transfer criteria
[AD-A139236] 14 p2134 N84-23788
Fiberoptic probe for measuring high frequency temperature fluctuations in combustion gases
[DE84-006784] 14 p2148 N84-23869
Future direction of research in wear and wear resistant materials. Status of understanding
14 p2153 N84-23900
The transfer function model: A computer program for determination of jet engine test cell exhaust particulates and opacity
[AD-A139222] 14 p2173 N84-24017
F-14 scale model measurements. Part 1: External response
[DE84-006201] 15 p2258 N84-24562
Comments on bounded error adaptive control
[NASA-CR-173542] 15 p2399 N84-25393
Ionospheric characteristics: A review
[AD-P002101] 16 p2521 N84-26187
ACSL (Advanced Continuous Simulation Language) simulation of a third order Butterworth filter using implementations derived from both Z and S domain representations
[AD-A140302] 16 p2545 N84-26335
Measurements of ocean wave spectra and modulation transfer function with the airborne two frequency scatterometer 17 p2715 N84-27282
Structure-borne sound transfer functions of a Dunlop Super "D" flexible mounting
[TPD-408.870/1] 17 p2763 N84-27552
Study on the influence of X-ray focus on the image quality in radiological systems 17 p2764 N84-27558
Evaluation of aerodynamic admittance of a model bridge oscillating with vertical motion
[NMI-R-175] 18 p2851 N84-28104
The aerodynamic admittance of model bridges
[NMI-R-176] 18 p2851 N84-28105
LCAP2 (Linear Controls Analysis Program). Volume 2: Interactive LCAP2 user's guide
[AD-A141145] 18 p2924 N84-29542
LCAP2 (Linear Controls Analysis Program). Volume 3: Source code description
[AD-A141386] 19 p3075 N84-29512
LCAP2 (Linear Control Analysis Program). Volume 1: Batch LCAP2 user's guide
[AD-A141486] 19 p3076 N84-29517
Algebraic and dynamic characterizations of poles and zeroes at infinity
[MATHS-RES-175] 19 p3091 N84-29626
Characterization of the LANDSAT sensors' spatial responses
[E84-10171] 21 p3426 N84-31734
A comparison of impedance measurement techniques in air
[AD-A143638] 23 p3821 N84-34232
Identification and verification of frequency-domain models for XV-15 tilt-rotor aircraft dynamics
[NASA-TM-86009] 24 p3856 N84-34445
Control methodologies for large space structures
[NASA-CR-173987] 24 p3861 N84-34467

TRANSFER OF TRAINING
Evaluation of map symbols for a computer generated topographic display: Transfer of training, symbol confusion, and association value studies
[AD-A133590] 06 p0866 N84-15643
Part-task training strategies in simulated carrier landing final approach training
[AD-A136670] 10 p1549 N84-20156
Memory organization-based methods of instruction: Rationale and development
[AD-A137504] 11 p1702 N84-21101

A review of the literature on training simulators. Translators: Transfer of training and simulator fidelity
[AD-A142732] 20 p3263 N84-30700
The CECOM summer faculty research program
[AD-P003421] 20 p3270 N84-30753
Variability of practice and the transfer of training of motor skills
[AD-A142866] 21 p3459 N84-31942

TRANSFER ORBITS
NT INTERPLANETARY TRANSFER ORBITS
Optimal low thrust, three burn orbit transfers with large plane changes 06 p0793 N84-15166
Capture-ejector satellites
[NASA-TM-85686] 06 p0795 N84-15179
Study of Attitude Control and Guidance System (ACGS) for orbit change stage
[ESA-CR(P)-1797] 08 p1120 N84-17285
Thermal design optimization for spacecraft during transfer orbit 10 p1445 N84-19442
Discontinuous low thrust orbit transfer
[AD-A136008] 10 p1451 N84-19474
System feasibility study on rendezvous and docking in transfer orbit, volume 1
[PV6-13/82-VOL-1] 12 p1776 N84-21588
System feasibility study on rendezvous and docking in transfer orbit, volume 2
[PRV6-13/82] 12 p1776 N84-21589

TRANSFER TUNNELS
Instrumentation techniques for aerodynamic heating measurement in NAL hypersonic gun tunnel
[NAL-TR-780] 09 p1258 N84-18213

TRANSFERRING
Proceedings of the Third LAN-Transport Workshop. Report of the Third Workshop for Local Area Network Implementors of the NBS Specifications of the International Standards Organization Transport Class 4 Protocol Special Interest Group on File Transfer Protocol
[PB83-251348] 04 p0584 N84-13857
The transfer of atoms, ions and molecular groups in solution. Part 2: Tunnelling between harmonic wells
[AD-A142334] 20 p3147 N84-29982
The transfer of atoms, ions and molecular groups in solution. Part 3: Monte Carlo methods for the evalustion of rate constants
[AD-A142335] 20 p3147 N84-29983
Transfer during sliding wear of selected metal systems 21 p3364 N84-31341

TRANSFORM INTEGRALS
U INTEGRAL TRANSFORMATIONS

TRANSFORMATION TENSORS
U TENSORS

TRANSFORMATIONS
Design and microprocessor-based implementation of digital frequency selective filters for application in terrain roughness identification
[AD-A133459] 06 p0897 N84-15826
Automating the transformational development of software, volume 1
[AD-A139860] 15 p2392 N84-25355
Transformation of Ada program units into silicon
[AD-A141004] 18 p2833 N84-27986

TRANSFORMATIONS (MATHEMATICS)
NT COORDINATE TRANSFORMATIONS
NT FAST FOURIER TRANSFORMATIONS
NT INTEGRAL TRANSFORMATIONS
NT LAPLACE TRANSFORMATION
Dynamic programming algorithm and analyses for nonserial networks, part 2
[AD-A130905] 01 p0123 N84-10798
A generalization of Denjoy's theorem on diffeomorphisms of the circle
[AD-A130575] 01 p0130 N84-10848
Image matching using generalized Hough transforms 03 p0394 N84-12569
Kingman's subadditive ergodic theorem
[AD-A131795] 03 p0427 N84-12801
Some grid generations using conformal mapping
[NAL-TR-758] 04 p0586 N84-13871
Grid generation for cascades using conformal mapping
[NAL-TR-760] 04 p0586 N84-13872
Advanced Hough transform implementations
[AD-A132522] 04 p0589 N84-13890
Multivariate, minimum-curvature splines for randomly spaced data
[AD-A132319] 04 p0590 N84-13899
Invariant means on semi-topological transformation semigroups 04 p0593 N84-13912
Fault tolerant signal processing using finite fields and error-correcting codes
[AD-A133927] 05 p0667 N84-14386
Fast convolution algorithms and associated VHSIC architectures
[AD-A133851] 05 p0674 N84-14432
A successive transformation method for the dynamic analysis of damped systems 05 p0694 N84-14559
A representation for shape based on peaks and ridges in the difference of low-pass transform
[AD-A133299] 06 p0901 N84-15849
On a class of orbit closures with unique minimal sets 07 p1060 N84-16869
The Birkhoff-Lewis fixed point theorem and a conjecture of V. I. Arnold
[AD-A134534] 07 p1062 N84-16888
Hierarchical cache accumulators for sequential mode estimation
[AD-A134696] 08 p1212 N84-17908
Convergence of quadratic forms in p-stable random variables and theta sub p-radonifying operators
[AD-A135314] 08 p1219 N84-17959
A parallel VLSI architecture for a digital filter using a number theoretic transform 09 p1400 N84-19141
Computer program for evaluating the ives transformation in turbomachinery cascades, revision
[AD-A137064] 10 p1571 N84-20295
Recursive lagrangian dynamics of flexible manipulator arms via transformation matrices
[AD-A137345] 10 p1574 N84-20316
Optical processing in radon space
[AD-A137033] 10 p1579 N84-20343
Some considerations in estimating data transformations
[AD-A137960] 12 p1893 N84-22329
Time optimal digital control of multi-unit paper web dynamics 13 p2002 N84-22991
Geometric interpretations of the Discrete Fourier Transform (DFT)
[NASA-TP-2332] 14 p2189 N84-24114
Vector expansion transformation of logic algebra
[AD-P002349] 14 p2192 N84-24140
The Dirichlet problem for harmonic maps from the disk into the Euclidean n-sphere
[AD-A139259] 14 p2213 N84-24287
Strapdown system algorithms 16 p2446 N84-25694
ACSL (Advanced Continuous Simulation Language) simulation of a third order Butterworth filter using implementations derived from both Z and S domain representations
[AD-A140302] 16 p2545 N84-26335
Some methods for numerical conformal mapping
[NAL-TR-794T] 16 p2548 N84-26354
Estimating spectral indices from transforms of discrete representations of density functions
[AD-A140164] 16 p2557 N84-26404
Formulation of theory of artificial earth satellite motion by Hori-Deprit method 19 p2974 N84-28652
The development of a mathematical foundation for cellular image processing
[AD-A142173] 19 p3042 N84-29301
Specification and transformation: Automated implementation
[AD-A141064] 19 p3074 N84-29505
Nonlinear partial differential equations and related problems of Pade approximations
[AD-A141519] 19 p3085 N84-29578
Absolute bounds on the mean and standard deviation of transformed data for constant-derivative transformations
[AD-A141854] 19 p3088 N84-29605
Investigation of three dimensional mesh generation with precise controls
[AD-A142246] 19 p3089 N84-29614
A graph theoretic technique for the generation of systolic implementations for shift-invariant flow graphs
[AD-A142251] 19 p3090 N84-29615
Width of nonlinear resonance
[DE84-009662] 19 p3102 N84-29706
Satellite orbit theories based on the elimination of the parallax 19 p3118 N84-29819
An adaptive satellite orbit estimation scheme using an analytical approach and a dynamical model compensation technique 19 p3119 N84-29821
Modifications to iterative recursion unfolding algorithms and computer codes to find more appropriate neutron spectra
[AD-A142475] 20 p3273 N84-30775
Spinorial relativistic rotator: The transformation from quasi-Newtonian to Minokowski coordinates
[DE84-009091] 20 p3282 N84-30839
Globally convergent procedures for solving nonlinear minimization problems
[AD-A142905] 21 p3473 N84-32009
On the closure of spaces of sums of ridge functions and the range of the X-ray transform 22 p3635 N84-33035
Asymptotic relative efficiencies of the rank transformation procedure in randomized complete block designs
[DE84-010600] 22 p3649 N84-33134
System design of a remotely operated, program controlled measurement table for the calibration of the Egret experiment. Part A: Program control
[NASA-TM-77758] 23 p3812 N84-34172
Modeling two-dimensional freezing using transfinite mappings and a moving-mesh finite element technique
[AD-A144131] 24 p3900 N84-34696
The analytic structure of ordinary and partial differential equation
[AD-A144121] 24 p3950 N84-35011

TRANSFORMERS
NT MODE TRANSFORMERS
NT VOLTAGE CONVERTERS (AC TO AC)
Lightweight, high-frequency transformers 01 p0011 N84-10066
RAVEN, a 5-jK, 1.5-MV repetitive pulser
[DE83-013643] 01 p0071 N84-10465
Megavolt pulse transformer powered by a fast plate generator
[DE83-014189] 03 p0366 N84-12384
Transmission lines for pulsed power applications
[DE84-002754] 05 p0676 N84-14446
Computation of the temperature distribution due to eddy-currents in the wall of a power transformer
[PB83-217273] 06 p0831 N84-15410
Testing of the box transformer 10/04.4 kV in the network of the electricity supply company
[BMFT-FB-T-83-165] 07 p1000 N84-16483
Evaluation of advanced technologies for power transformers
[DE84-004046] 10 p1487 N84-19719
Compact gas insulated transformer
[DE84-006426] 12 p1814 N84-21822
Development of high frequency low weight power magnetics for aerospace power systems
[NASA-TM-83656] 13 p1966 N84-22892
Criteria for accuracy of rotary transformers 17 p2635 N84-26857
Transformers with voltage regulation for electric supply networks 17 p2639 N84-26881
Conceptual design of a noncontacting power transfer device for the ASPS Vernier system
[NASA-CR-172238] 22 p3581 N84-32677
Magnetic switches and circuits, revision 2
[DE84-014141] 22 p3588 N84-32725
FET switching regulator
[AD-D011146] 23 p3735 N84-33665

TRANSFORMS
U TRANSFORMATIONS (MATHEMATICS)

TRANSHORIZON RADIO PROPAGATION
A radio interference model for western Europe 15 p2325 N84-24963
Distortion of a narrow radio beam in a convective medium 15 p2326 N84-24966

TRANSIENT HEATING
NT PULSE HEATING
NT SHOCK HEATING
Sodium boiling experiments in bundle geometries under fast transient and steady state conditions — fast breeder reactor safety analysis 06 p0843 N84-15496

TRANSIENT LOADS
NT BLAST LOADS
NT GUST LOADS
NT IMPACT LOADS
NT SHOCK LOADS
Transient overvoltages on cable sheaths
[BLL-OA-TRANS-2620-(6196.3)] 01 p0069 N84-10448
An assessment of some methods for calculating wave loading
[NMI-R-162] 05 p0694 N84-14555
Dynamic simulation of structural systems with isolated nonlinear components 10 p1510 N84-19685
Approximation of compressible fluid in fluid-structure interaction problems
[CSIR-R/NIAST-15] 11 p1651 N84-20778

TRANSIENT PRESSURES
Transient flow combustion 11 p1613 N84-20560
Theoretical calculations of pressure vessel failure frequencies for Sizewell B transients
[AERE-R-11196] 18 p2854 N84-28125

TRANSIENT RESPONSE
Transient-temperatures-measurement errors
[DE83-006300] 01 p0065 N84-10549
Transient response of superconducting microbridges to supercritical currents
[AD-A130913] 01 p0153 N84-11007
NIMBUS-ERB instrument study
[NASA-CR-165922] 02 p0222 N84-11459
Submerged shock response of a linearly elastic shell of revolution containing internal structure. User's manual for the ELSHOK code
[AD-A131282] 03 p0389 N84-12534
Blade loss transient dynamics analysis with flexible bladed disk
[NASA-CR-168176] 04 p0486 N84-13193

Phase locked loop theory and application: A precise paper
[CSIR-NIAST-82/57] 04 p0524 N84-13444
Neuromagnetic localization of two components of the transient visual evoked response to patterned stimulation
[AD-A132546] 05 p0712 N84-14667
Effects of different rub models on simulated rotor dynamics
[NASA-TP-2220] 06 p1166 N84-17590
Centrifuge impact cratering experiment 5
[NASA-CR-173354] 10 p1497 N84-19784
Laboratory measurements of subsynchronous resonance
[RL-8845] 11 p1667 N84-20877
Temperature effects in elastohydrodynamically lubricated contacts 15 p2340 N84-25049
Transient EHL effects in starved ball bearings 15 p2341 N84-25054
Non-linear transient response of flat plate to air shock wave
[AD-A140491] 16 p2503 N84-26063
Parametric studies of the T-38 student windshield using the finite element of code MAGNA (Materially and Geometrically Nonlinear Analysis)
[AD-P003232] 17 p2597 N84-26845
Transient response of GaAs microwave power FET to X-ray pulses
[DE84-010145] 20 p3309 N84-31017
A shear deformable shell element for laminated composites 21 p3420 N84-31691
Transient response dynamic module modifications to include static and kinetic friction effects 22 p3610 N84-32872
Transient response from thin dyke in the Earth for loop excitation 23 p3776 N84-33941
Monolithic microwave integrated circuit devices for active array antennas
[NASA-CR-173981] 24 p3897 N84-34675

TRANSIENTS (SURGES)
U SURGES

TRANSISTOR AMPLIFIERS
Functional electronic amplifiers with broad dynamic band
[AD-A133774] 05 p0675 N84-14433
Considerations for choosing microwave transistors in high power shipboard search radars
[AD-A133279] 06 p0823 N84-15367
Reliability analysis of multi-components systems
[AD-A138013] 12 p1824 N84-21890
Monolithic amplifier
[AD-D011075] 19 p3017 N84-29129
High power high voltage linear amplifier apparatus
[AD-D011026] 19 p3018 N84-29132
Equipment for monitoring and control of television transmitters 21 p3378 N84-31435

TRANSISTOR CIRCUITS
Reverse bias second breakdown in power switching transistors
[AD-A130145] 02 p0213 N84-11391

TRANSISTOR-TRANSISTOR-LOGIC INTEG CIRCUITS
U TTL INTEGRATED CIRCUITS

TRANSISTORS
NT BIPOLAR TRANSISTORS
NT FIELD EFFECT TRANSISTORS
NT JFET
NT JUNCTION TRANSISTORS
NT SILICON TRANSISTORS
Improved transistor-controlled and commutated brushless DC motors for electric vehicle propulsion
[NASA-CR-168053] 01 p0069 N84-10450
Considerations for choosing microwave transistors in high power shipboard search radars
[AD-A133279] 06 p0823 N84-15367
The 25 kW resonant dc/dc power converter
[NASA-CR-168273] 08 p1149 N84-17481
GaAs/GaAlAs bipolar heterojunction gate array
[AD-A138203] 12 p1913 N84-22466
Electrical monitoring of polymerization reactions with the charge-flow transistor
[AD-A142267] 19 p3000 N84-29010
Design of locked microwave oscillators on basis of scattering parameters of transistors operating in large signal mode 22 p3570 N84-32608

TRANSIT TIME
On transit time instability in liquid jets
[NASA-TM-77455] 10 p1490 N84-19742

TRANSITION
Crossed molecular beam studies of the reactions of oxygen and fluorine atoms
[AD-A135415] 06 p1124 N84-17309
A summary of the mechanisms of delayed detonation 13 p1947 N84-22658
Enhanced solar energy collection in porphyrin based photoconversion schemes
[DE84-006882] 14 p2173 N84-24015

TRANSITION FLOW
Vortex breakdown: A two-stage transition 03 p0325 N84-12124
Transition to turbulence in plane channel flow
[NASA-CR-173149] 07 p1000 N84-16486
Flow technical problems with transitions between partial and complete filling and with flow measurement in channel sections. --- sewage flow
[TUM-SFB-81] 08 p1160 N84-17552
Transition to turbulence in plane channel flows
[NASA-CR-172298] 09 p1313 N84-18577
Studies of boundary layer transition and surface roughness effects in hypersonic flow
[AD-A140803] 17 p2601 N84-26570
A preliminary design study on an acoustic muffler for the laminar flow transition research apparatus
[NASA-CR-172374] 19 p2958 N84-28748
Description and prediction of transition in two-dimensional, incompressible flow 23 p3748 N84-33758
Deflagration to shock to detonation transition of energetic propellants
[AD-A144469] 24 p3890 N84-34632

TRANSITION METALS
NT CADMIUM
NT CHROMIUM
NT COBALT
NT COBALT 60
NT GOLD
NT HAFNIUM
NT IRIDIUM
NT IRON
NT IRON ISOTOPES
NT MANGANESE
NT MOLYBDENUM
NT NICKEL
NT NIOBIUM
NT OSMIUM
NT PALLADIUM
NT PLATINUM
NT REFRACTORY METALS
NT RHENIUM
NT RHODIUM
NT RUTHENIUM
NT SILVER
NT SILVER ISOTOPES
NT TANTALUM
NT TECHNETIUM
NT TITANIUM
NT TUNGSTEN
NT VANADIUM
NT YTTRIUM
NT ZINC
NT ZIRCONIUM
Selective catalytic hydrogenation of polynuclear heteroaromatic nitrogen compounds with polymer-supported transition-metal compounds
[DE84-001326] 04 p0495 N84-13248
The chemistry of transition metal carbene complexes
[AD-A133541] 06 p0801 N84-15225
Oxygen adsorption and initial oxidation of single crystal first row transition metal and alloy surfaces 06 p0816 N84-15316
Kinematics of the structure and morphology during surface reactions between transition metals and molecular hydrogen 06 p0815 N84-15317
Investigation to diminish the heavy metal concentrations in sewage sludges with organic complexing reagents
[BMFT-FB-T-83-158] 07 p1027 N84-16660
C-h and h-h activation in transition metal complexes and on surfaces
[AD-A136468] 09 p1279 N84-18350
Cyclic and high polymeric phosphazenes as carrier molecules for carboranyl, metallo, or bioactive side groups
[AD-A135656] 09 p1288 N84-18407
Intramolecular energy transfer reactions as a method for metal complex assisted production of hydrogen
[DE84-004762] 10 p1456 N84-19510
Alkane soluble transition metal complexes
[AD-A137252] 10 p1458 N84-19525
Structure of glasses containing transition metal ions
[DE84-004211] 10 p1468 N84-19591
A study of the magnetic and metallurgical properties of Sm(Co,Fe,Cu, Zr) sub z alloys near z = 8.5
[AD-A138253] 12 p1798 N84-21728
Metastable transition metal alloys produced by rapid quenching: Structure and properties
[AD-A138296] 12 p1798 N84-21729
Observation of surface-enhanced Raman scattering for transition-metal hexaammine cations at the outer Helmholtz plane: Implications for enhancement mechanisms at electrochemical interfaces
[AD-A139045] 13 p1956 N84-22719
Organometallic chemistry of weakly solvated transition metal cations
[DE84-006967] 13 p1958 N84-22726
Mechanistic studies related to the metal catalyzed reduction of carbon monoxide to hydrocarbons
[DE84-007963] 15 p2286 N84-24729
Strategies for solar energy conversion utilizing metal complexes
[DE84-008184] 15 p2364 N84-25187
SEM (Scanning-Electron-Microscopy) studies of magnetic domains in amorphous metals
[AD-A140718] 17 p2624 N84-26783
Study of intermediates from transition metal excited-state electron-transfer reactions
[DE84-008587] 18 p2942 N84-28657
Solvent, ligand, and ionic charge effects on reaction entropies for simple transition-metal redox couples
[AD-A142374] 20 p3147 N84-29984
Theoretical research program to predict the properties of molecules and clusters containing transition metal atoms
[NASA-CR-173924] 22 p3554 N84-32502
Solid state tetrachloroaluminate storage battery having a transition metal chloride cathode
[AD-D011133] 22 p3618 N84-32924
Energy Conversion and Utilization Technologies Program (ECUT) electrocatalysis research
[NASA-CR-173939] 23 p3713 N84-33534
USSR report: Materials science and metallurgy, no. 91
[JPRS-84129] 24 p3871 N84-34533
Structure and properties of granulated aluminum alloys containing transition metals 24 p3872 N84-34535
Anodic dissolution of transition metal carbides at high current density 24 p3877 N84-34568

TRANSITION PRESSURE
Multi-transition stamping of components with thin body and tall stiffening ribs
[BLL-M-35384-(5628.4)] 06 p1140 N84-17415

TRANSITION PROBABILITIES
Calculating the probability of radiation from the dissociated states of diatomic molecules
[AD-A131069] 02 p0289 N84-11893
New results for transition probabilities in two-level systems: The large detuning regime
[AD-A131783] 03 p0433 N84-12635
Collisional-radiative model for helium-like ions: Application to intermediate-density plasmas
[IPPJ-647] 06 p0919 N84-15978
Theoretical studies of atomic transitions
[DE84-002628] 07 p1073 N84-16970
Data and results of a laboratory investigation of microprocessor upset caused by simulated lightning-induced analog transients
[NASA-TM-85821] 17 p2733 N84-27376
A simple DWBA (Franck-Condon) treatment of H-atom transfers between two heavy particles
[AD-A143867] 23 p3822 N84-34236

TRANSITION TEMPERATURE
Initial evaluation of molybdenum-rhenium alloy for reactor heat pipes
[DE83-012687] 01 p0145 N84-10955
Strain rate effects on ductile/brittle transitions in steels
[DE83-016906] 03 p0355 N84-12308
Relationship between the glass transition temperature and the chemical structure of polymers
[RAE-LIB-TRANS-2098] 04 p0505 N84-13312
Relaxation in spin glasses: Similarities and differences from ordinary glasses
[DE84-001719] 04 p0508 N84-13330
Relationships between the glass transition, thermodynamic and mechanical values as possible sources of information correlating material properties with chemical structure
[BR-90008] 05 p0644 N84-14238
Low frequency Raman spectra of V-B2O3 as a function of temperature and pressure
[AD-A132699] 05 p0649 N84-14270
Metallurgical explanation of double magnetic transitions and allied phenomena in AuFe alloys
[DE84-002024] 05 p0657 N84-14317
MIT miniaturized disk bend test
[DE84-001275] 05 p0694 N84-14554
Impurities in the heavy-Fermion superconductor UBe13
[DE84-001731] 05 p0755 N84-14951
Synthesis and characterization of some thermotropic nematic and cholesteric polymers 06 p0808 N84-15262
Extensions of the theory of the electron-phonon interaction in metals: A collection
[AD-A134140] 07 p1079 N84-17018
Hygrothermal effects in continuous fibre reinforced composites. Part 2: Physical properties
[AD-A135786] 09 p1276 N84-18331

Kinetics of the Beta + Delta phase transformation of HMX 13 p1951 N84-22681
Infrared temperature measurements in combustion systems
[PNR-90170] 13 p1994 N84-22942
Development of media for dynamic latent heat storage for the low temperature range. Part 1: Thermal analysis of selected salt hydrate systems
[DFVLR-FB-84-03-PT-1] 15 p2362 N84-25170
Pressure-dependence of glass transition temperature of elastomeric glasses
[AD-A141485] 19 p2998 N84-28999
Ductile-brittle transition temperature measurement of temper embrittled Ni-Cr steels by means of small punch tests
[DE84-012833] 20 p3158 N84-30054
Fabrication of metallic glass structures
[DE84-014499] 23 p3725 N84-33606

TRANSITS
NT THEODOLITES

TRANSLATING
NT MACHINE TRANSLATION
German-English technical glossary
[DE84-007976] 15 p2418 N84-25521
Converting to Ada packages
[NPL-DITC-39/84] 18 p2919 N84-28512
Feasibility assessment of JOVIAL to Ada (Trademark) translation
[AD-P003523] 21 p3330 N84-31127

TRANSLATIONAL MOTION
NT SECONDARY FLOW
NT THREE DIMENSIONAL FLOW
NT THREE DIMENSIONAL MOTION
Decoupled control analysis of a large flexible space antenna with linear quadratic regulator comparisons
[NASA-TP-2293] 14 p2115 N84-23675
Seismic response for multicomponent earthquakes
[PB84-193747] 20 p3204 N84-30354

TRANSLUNAR SPACE
U INTERPLANETARY SPACE

TRANSMISSION
NT ACOUSTIC PROPAGATION
NT AERODYNAMIC HEAT TRANSFER
NT CODE DIVISION MULTIPLE ACCESS
NT CONDUCTIVE HEAT TRANSFER
NT CONVECTIVE HEAT TRANSFER
NT DATA TRANSMISSION
NT DEMULTIPLEXING
NT DIFFRACTION PROPAGATION
NT ELECTRIC POWER TRANSMISSION
NT ELECTROMAGNETIC WAVE TRANSMISSION
NT FREQUENCY DIVISION MULTIPLE ACCESS
NT FREQUENCY DIVISION MULTIPLEXING
NT GROUND WAVE PROPAGATION
NT HALOS
NT HEAT TRANSFER
NT HEAT TRANSMISSION
NT IONOSPHERIC PROPAGATION
NT LAMINAR HEAT TRANSFER
NT LIGHT SCATTERING
NT LIGHT TRANSMISSION
NT MICROWAVE ATTENUATION
NT MICROWAVE TRANSMISSION
NT MULTIPATH TRANSMISSION
NT MULTIPLE ACCESS
NT MULTIPLEXING
NT RADAR TRANSMISSION
NT RADIATIVE HEAT TRANSFER
NT RADIO TRANSMISSION
NT SATELLITE TRANSMISSION
NT SCATTER PROPAGATION
NT SHOCK WAVE PROPAGATION
NT SHORT WAVE RADIO TRANSMISSION
NT SIGNAL TRANSMISSION
NT SINGLE CHANNEL PER CARRIER TRANSMISSION
NT SINGLE SIDEBAND TRANSMISSION
NT SOUND TRANSMISSION
NT SPREAD SPECTRUM TRANSMISSION
NT TELEPHONY
NT TELEVISION TRANSMISSION
NT TIME DIVISION MULTIPLEXING
NT TRANSHORIZON RADIO PROPAGATION
NT TURBULENT HEAT TRANSFER
NT WAVE PROPAGATION
NT WAVELENGTH DIVISION MULTIPLEXING
Modeling of the transmissibility through rolling-element bearings under radial and moment loads
01 p0089 N84-10580
High resolution study of the relationship between misfit accommodation and growth of Cu sub 2-x in CdS
[DE84-004836] 11 p1673 N84-20920
New materials for infrared transmitting electrooptic filters
[AD-A139272] 14 p2224 N84-24349
Measurement of atmospheric transmission over long paths in the infrared spectral region
[AD-A139619] 15 p2368 N84-25209
Engineering aids for the design of survivable defense communications transmission capability
[AD-A140755] 17 p2653 N84-26970

TRANSMISSION EFFICIENCY
An exploratory study of the use of an inexpensive cordless telephone as a part of a data communications link — management information in hospitals
[AD-A134228] 07 p0992 N84-16432
Design and fabrication of circular and rectangular components for electron-cyclotron-resonant heating of tandem mirror experiment-upgrade
[DE84-003244] 07 p1078 N84-17010
User manual of the CATSS system (version 1.0) communication analysis tool for space station
[NASA-CR-171726] 08 p1142 N84-17431
Improving frequency utilization efficiency in time and space with isofrequency multiple access networks in private systems of cellular type — mobile radio systems
10 p1477 N84-19648
LANDSAT-D communication systems in-orbit performance 10 p1523 N84-19972
Fundamentals of mode S parity coding
[DOT/FAA/PM-83/6] 11 p1642 N84-20736
Remote-ended time domain bandwidth measurements on installed regenerator sections of multimode optical fibre cable in the British Telecom Network
11 p1727 N84-21267
Test results for 27.5- to 30-GHz communications satellite receivers
[NASA-TM-83662] 16 p2828 N84-27954

TRANSMISSION LINES
NT BEAM WAVEGUIDES
NT CIRCULAR WAVEGUIDES
NT COAXIAL CABLES
NT COMMUNICATION CABLES
NT FLUID TRANSMISSION LINES
NT MICROSTRIP TRANSMISSION LINES
NT OPTICAL WAVEGUIDES
NT PLASMAGUIDES
NT POWER LINES
NT RECTANGULAR WAVEGUIDES
NT STRIP TRANSMISSION LINES
NT SUBMARINE CABLES
NT UNDERGROUND TRANSMISSION LINES
NT WAVEGUIDES
Optical cable-electrical cable hybrid transmission system. The videophone: The optical cable transmission part
[AD-A131012] 02 p0294 N84-11924
FOSS (Fiber Optic Sensor System) FDM (Feasibility Demonstration Model) electrooptical tow cable termination
[AD-A131319] 02 p0294 N84-11925
Prototype fiber optic system to remote TRACALS radar
[AD-A132073] 03 p0360 N84-12341
Ultra low loss optical fiber cable assemblies, volume 2
[AD-A132008] 03 p0440 N84-12891
Ultra low loss optical fiber cable assemblies, volume 1
[AD-A132007] 03 p0440 N84-12892
Transmission lines for pulsed power applications
[DE84-002754] 05 p0676 N84-14446
Bidirectional fiber optic cable adapter
[AD-A133371] 06 p0824 N84-15370
Frequency characteristics of spring constants of a suspended transmission line 07 p0992 N84-16361
BERTHA: A versatile transmission line and circuit code
[DE84-002984] 07 p0998 N84-16474
Transmission line transformers; theory and design data
[FOA-C-30327-E] 08 p1152 N84-17503
Preliminary investigation of an electrical network model for ultrasonic scattering
[NASA-CR-3770] 08 p1168 N84-17606
BERTHA: A versatile transmission line and circuit code
[AD-A135024] 08 p1209 N84-17886
Hazard analysis for magnetic induction from electric transmission lines
[PB84-125236] 10 p1473 N84-19619
Static and dynamic behavior of mechanical components associated with electrical transmission lines
10 p1505 N84-19644
Vibration of overhead transmissions lines 4
10 p1506 N84-19654
A technical note on evaluation of dampers
10 p1507 N84-19659
Plasma focus research in China
10 p1581 N84-20361
Parametric analysis of hollow conductor parallel and coaxial transmission lines for high frequency space power distribution
[NASA-TM-83601] 11 p1625 N84-20639
Proceedings of the 32d International Wire and Cable Symposium
[AD-A136749] 11 p1719 N84-21212
Use of plain copper conductors in lieu of tinned-copper for internal cables 11 p1719 N84-21213
Design and characteristics of radiating pair cable
11 p1720 N84-21217
New quality assessment procedure for exchange area cable transmission parameters 11 p1720 N84-21218
Bell System lightguide cable interconnection equipment, central office to customer premises
11 p1720 N84-21219
Termination of cylindrical grooved optical cables
11 p1720 N84-21220
Evaluation of adhesive materials for bonded sheath cable designs 11 p1721 N84-21226
Development of composite fiber-optic electric-power umbilical cable and optical feedthrough for deep ocean mining 11 p1722 N84-21231
Non-metallic optical cable with optical fiber catenary for long span aerial application 11 p1722 N84-21235
Non-metallic long span aerial cable with optical fibres for the use at 1.3 micrometers 11 p1722 N84-21236
Optical and mechanical properties of single mode cables at 1300 nm 11 p1726 N84-21258
Cable fire studies using the Ohio State University release rate apparatus 11 p1726 N84-21261
Circuit transmission integrity of plenum cables in a developing fire scenario 11 p1726 N84-21262
Overall fire safer 11 p1727 N84-21264
Computerised optical fibre characterisation
11 p1727 N84-21266
Development of short-distance optical transmission cord 11 p1727 N84-21268
Breakout cables for short haul fiber optic systems
11 p1728 N84-21270
A transmission line bridge for the diagnostics of plasma channels
[AD-A139266] 14 p2228 N84-24362
Millimeter wave transmission systems and related devices
[NASA-CR-173515] 15 p2319 N84-24918
Representative electromagnetic field intensities near the Clam Lake, Wisconsin and Republic, Michigan ELF (Extremely Low Frequency) facilities
[AD-A140798] 17 p2654 N84-26972
Analysis of transmission lines on semiconductor substrate
[AD-A140711] 17 p2663 N84-26987
Tension waves in tethered satellite cables
[NASA-TM-85799] 18 p2807 N84-27820
Monolithic amplifier
[AD-D011075] 19 p3017 N84-29129
Realization of high-frequency filters according to theory of guided spherical waves 21 p3378 N84-31438
Computer programs for electromagnetic coupling between a conducting body and an aperture in an infinite conducting plane
[AD-A142975] 21 p3386 N84-31491
Effect of processing conditions on the reliability of crosslinked polyethlene cable insulation
[DE84-014902] 22 p3560 N84-32546
Grounding ring for shielded cable
[AD-D011135] 22 p3581 N84-32675
Optical power source control system
[AD-D011124] 22 p3656 N84-33175
Use of methods of transmission line electrical theories to analyze one-dimensional dynamic problems of consolidation theory
[ISSN-0208-5658] 23 p3734 N84-33662

TRANSMISSION LOSS
Ultra low loss optical fiber cable assemblies, volume 2
[AD-A132008] 03 p0440 N84-12891
Ultra low loss optical fiber cable assemblies, volume 1
[AD-A132007] 03 p0440 N84-12892
Light aircraft sound transmission study
[NASA-CR-173175] 07 p1069 N84-16941
Measurement of transmission loss characteristics using acoustic intensity techniques at the KU-FRL Acoustic Test Facility
[NASA-CR-173187] 07 p1069 N84-16942
A computer program for solving the parabolic equation using an implicit finite-difference solution method and incorporating exact interface conditions
[AD-A135325] 08 p1212 N84-17903
Optical detection loss due to air-borne salts on Diego Garcia
[AD-A136120] 09 p1346 N84-18792
Signal-to-noise ratio and combiner weight estimation for symbol stream combining 10 p1474 N84-19630

UHF (Ultra-High Frequency) propagation measurements
[AD-A137637] 11 p1643 N84-20741
New quality assessment procedure for exchange area cable transmission parameters 11 p1720 N84-21218
Termination of cylindrical grooved optical cables 11 p1720 N84-21220
Field trial of composite fiber-optic overhead ground wire 11 p1720 N84-21221
Optical and mechanical properties of single mode cables at 1300 nm 11 p1726 N84-21258
Remote-ended time domain bandwidth measurements on installed regenerator sections of multimode optical fibre cable in the British Telecom Network 11 p1727 N84-21267
A study of the mechanics of radiation damage in fiber optical waveguides
[AD-A139590] 14 p2225 N84-24352
Loss function used in optimization of array of coupled tracking radioelectronic systems 17 p2630 N84-26824
Study of double wall panels for use in propeller driven aircraft
[NASA-CR-173847] 21 p3490 N84-32116
A comparison of 2 acoustic parabolic transmission loss models for compatibility with the wavenumber technique in the determination of source depth
[AD-A143079] 21 p3492 N84-32128
Intermodulation in protective semiconductor microwave devices 22 p3571 N84-32612
Analyses on the low voltage free electron laser
[AD-A143681] 23 p3754 N84-33796
Experimental investigation of rocket motor flow-turning acoustic losses
[AD-A144168] 24 p3866 N84-34504
Analytic models for radiation induced loss in optical fibers I
[AD-A144630] 24 p3964 N84-35100

TRANSMISSIONS (MACHINE ELEMENTS)

Application of military lubricants in commercial hydraulic/power transmission systems and components
[AD-A136937] 10 p1467 N84-19584
Electric vehicle propulsion alternatives
[NASA-TM-83504] 10 p1529 N84-20017
Surface fatigue characteristics of transmission gears 15 p2307 N84-24843
Directional gear ratio transmissions
[NASA-CASE-LAR-12644-1] 18 p2848 N84-28084
Transmission efficiency measurements and correlations with physical characteristics of the lubricant
[NASA-TM-83740] 20 p3195 N84-30293
Summary of drive-train component technology in helicopters
[NASA-TM-83726] 20 p3195 N84-30294
Advanced system for testing new helicopter transmissions 21 p3329 N84-31120
Thermal analysis of a planetary transmission with spherical roller bearings operating after complete loss of oil
[NASA-TP-2367] 22 p3603 N84-32824

TRANSMISSIVITY

Process of making medical clip
[NASA-CASE-LAR-12650-2] 18 p2899 N84-28389
10.6 micrometer gradient index optical component design
[AD-A141343] 18 p2932 N84-28594

TRANSMISSOMETERS

The calculated performance of some radar and transmissometer systems in rain and fog at 35, 94, 140 and 240 GHz, volume 1
[AD-A133587] 06 p0625 N84-15380
Evaluation of visibility sensors at the Eglin Air Force Base climatic chamber
[AD-A135375] 08 p1190 N84-17758
Meteorological and climatological conditions affecting the vertical structure of visibility in Northern Germany
[AD-A139126] 14 p2179 N84-24052

TRANSMITTANCE

Atmospheric transmittance/radiance computer code FASCOD2
[AD-A130241] 01 p0147 N84-10964
LANDSAT 4 band 6 data evaluation
[E84-10001] 02 p0235 N84-11543
Air mass computer program for atmospheric transmittance/radiance calculation: FSCATM
[AD-A132108] 04 p0563 N84-13712
Accurate evaluation of homogenous and nonhomogeneous gas emissivities
[NASA-CR-173307] 09 p1277 N84-18340
A study of atmospheric transmission in the wavelength regions of 0.35 micrometers to 14 micrometers
[AD-A135721] 09 p1302 N84-18510
Longwave radiation parameterization for UCLA/GLAS GCM
[NASA-TM-86072] 11 p1681 N84-20971
A computer code to calculate emission and transmission of infrared radiation through non-equilibrium atmospheres
[AD-A137162] 11 p1683 N84-20980
Atmospheric transmittance/radiance: Computer code LOWTRAN 6. Supplement: Program listings
[AD-A137689] 11 p1706 N84-21123
Atmospheric transmittance/radiance: Computer code LOWTRAN 6
[AD-A137786] 11 p1707 N84-21126
Atmospheric correction study/atmospheric model optimization
[INPE-2969-RPE/448] 13 p2010 N84-23040
Calculations of atmospheric transmittance in the 11 micrometer window for estimating skin temperature from VISSR infrared brightness temperatures
[NASA-TM-86105] 15 p2319 N84-24922
A system to measure LOS atmospheric transmittance at 19 GHz 15 p2324 N84-24951
Optical properties of melting snow, 1 15 p2354 N84-25122
Solar collector test procedures: Development of a method to refer measured efficiencies to standardized test conditions
[PB84-165299] 17 p2723 N84-27333
Optical constant determination of thin films condensed on transmitting and reflecting substrates
[AD-A140845] 17 p2768 N84-27578
The effect of turbulence on the atmospheric transmittance
[AD-A141133] 19 p3004 N84-29039
LANDSAT-D investigations in snow hydrology
[E84-10156] 19 p3039 N84-29277
The DFVLR contrast transmittance model SCOTRAN-program system: Description and operating instruction
[DFVLR-FB-84-18] 20 p3243 N84-30589
Electro-optical transmission and liquid water content of fogs and clouds
[AD-A142294] 20 p3245 N84-30597
Atmospheric contrast transmittance monitor
[AD-D011167] 23 p3796 N84-34083

TRANSMITTER RECEIVERS

The small transmitter receiver stations in the Sirio experiment — microwave transmission
[FUB-50-1982] 06 p0826 N84-15386
A review of underwater acoustic systems and methods for locating objects lost at sea
[NASA-TM-85727] 06 p0908 N84-15898
Design of receiver transmitters for use in multiple access networks 10 p1478 N84-19656
Design considerations for a monolithic, GaAs, dual-mode, QPSK/QASK, high-throughput rate transceiver
[NASA-CR-173560] 15 p2327 N84-24974
Design considerations for high-power VHF radar transceivers (keynote paper) 17 p2692 N84-27143
Design considerations for high-power VHF radar transceivers: Distributed versus single large transmitter 17 p2692 N84-27144
A transceiver module of the Mu radar 17 p2692 N84-27147
Design considerations for high-power VHF radar transceivers: T/R switch design 17 p2693 N84-27151
The Lincoln low-rate vocoder: A 1200/2400 bps LPC-10 voice terminal
[AD-A141291] 18 p2829 N84-27963
Analog single channel communication transmitter and receiver tests
[AD-A141480] 19 p3005 N84-29044
A CO2 laser transceiver package with Gbit/sec capability for space-to-space communications 24 p3905 N84-34731
Accomodation of candidate laser communication links on selected spacecraft configurations 24 p3905 N84-34734

TRANSMITTERS

NT EMERGENCY LOCATOR TRANSMITTERS
NT IONOSONDES
NT RADAR TRANSMITTERS
NT RADIO BEACONS
NT RADIO TRANSMITTERS
NT RADIOSONDES
NT RADIOTELEPHONES
NT RAWINSONDES
NT REPEATERS
NT TRANSMITTER RECEIVERS

Design, construction and long life endurance testing of cathode assemblies for use in microwave high-power transmitting tubes
[NASA-CR-168112] 01 p0069 N84-10451
A 20-GHz IMPATT transmitter
[NASA-CR-168076] 02 p0212 N84-11385
A 20-GHz IMPATT transmitter, summary 02 p0212 N84-11386
Interaction of antennas with masts under special consideration of the sensitivity and nonlinear effects in ship borne receiving systems 03 p0364 N84-12371
Effects of nonlinear loads on antennas and scatterers 03 p0365 N84-12376
Bistatic radar cross sections of chaff
[AD-A133967] 05 p0667 N84-14384
Considerations for choosing microwave transistors in high power shipboard search radars
[AD-A133279] 06 p0823 N84-15367
Bidirectional fiber optic cable adapter
[AD-A133371] 06 p0824 N84-15370
30/20 GHz spacecraft GaAs FET solid state transmitter for trunking and customer-premise-service application
[NASA-CR-168276] 07 p0997 N84-16483
The 20 GHz spacecraft FET solid state transmitter
[NASA-CR-168240] 08 p1149 N84-17477
Engineering and technical services to improve reliability and maintainability of instrument landing system components
[DOT/FAA/PM-84/7] 11 p1604 N84-20503
Test and evaluation of radioactively contaminated transducers and transmitters
[AD-P002676] 11 p1657 N84-20813
Note on the optimum search strategy for uniformly distributed CW transmitters — implications for Project Setl 16 p2480 N84-25904
SAR transmitter
[SES/ENG/TN-254/83] 16 p2484 N84-25928
V-band IMPATT transmitter
[NASA-CR-175249] 18 p2832 N84-27976
Intermodulation distortions in semiconductor microwave receivers and transmitters (survey) 22 p3569 N84-32605
Eye safe laser transmitter
[AD-D011145] 22 p3597 N84-32779
The 20 GHz solid state transmitter design, impatt diode development and reliability assessment
[NASA-CR-174716] 23 p3741 N84-33715
Generation of ultra-short laser pulses in the visible and near infrared for a spaceborne laser ranging transmitter 24 p3906 N84-34740

TRANSMUTATION

Development and fabrication of a high current, fast recovery power diode
[NASA-CR-168196] 04 p0524 N84-13443
Development of neutron-transmutation-doped germanium bolometer material
[DE84-008248] 14 p2243 N84-24471
Transmutation of manganese: Substituted steels in STARFIRE
[DE84-010402] 20 p3155 N84-30035

TRANSONIC AIRCRAFT

U SUPERSONIC AIRCRAFT

TRANSONIC AIRCRAFT TECHNOLOGY PROGRAM

U TACT PROGRAM

TRANSONIC COMPRESSORS

Flow mechanism and experimental investigation of a rotating stall in transonic compressors
[NASA-TM-77373] 06 p0782 N84-15122
Application of an inviscid-viscous interaction method to transonic compressor cascades 07 p0954 N84-16190
Design of transonic compressor cascades for minimal shock losses and comparison with test results 07 p0955 N84-16192
Experimental and theoretical studies of parietal viscous boundaries in a single stage transonic compressor 07 p0957 N84-16206
The method of complex characteristics for design of transonic compressors 17 p2599 N84-26859
Analysis of three-dimensional transonic compressors
[NASA-CR-166580] 22 p3531 N84-32356

TRANSONIC FLIGHT

Aeroelastic tailoring of high-aspect-ratio composite wings in the transonic regime 02 p0170 N84-11119
Transonic configuration design 03 p0318 N84-12081
Transonic configuration design (fighter) 03 p0318 N84-12082
Computational procedures in transonic aerodynamic design
[NLR-MP-82020-U] 06 p0783 N84-15131
Wave drag as the objective function in transonic fighter wing optimization
[NASA-TP-2265] 08 p1096 N84-17127
Transonic equivalence rule with lift
[AD-A143591] 23 p3690 N84-33389

TRANSONIC FLOW

A study of transonic normal shock wave-turbulent boundary layer interactions in axisymmetric internal flow 01 p0002 N84-10015
The calculation of steady and unsteady transonic flow in cascades
[CUED/A-TURBO/TR-118] 01 p0002 N84-10016

Effect of thrust vectoring and wing maneuver devices on transonic aeropropulsive characteristics of a supersonic fighter
[NASA-TP-2119] 01 p0004 N84-10025
Numerical computation of base flow for a projectile at transonic speeds
[AD-A130293] 01 p0004 N84-10027
LANN (Lockheed, AFWAL, NASA-Langley and NLR) wing test program: Acquisition and application of unsteady transonic data for evaluation of three-dimensional computational methods
[NASA-CR-174466] 01 p0005 N84-10032
Numerical calculation of the transonic potential flow past a cranked wing
[NASA-TM-84391] 01 p0008 N84-10049
Special Course on Subsonic/Transonic Aerodynamic Interference for Aircraft
[AGARD-R-712] 03 p0317 N84-12072
Subsonic/Transonic Aerodynamic Interference for Aircraft: Introductory remarks 03 p0317 N84-12073
Subsonic/transonic viscous interactions 03 p0317 N84-12075
Transonic empirical configuration design process 03 p0318 N84-12079
A theoretical and experimental investigation of a transonic projectile flow field
[AD-A131936] 03 p0320 N84-12094
Results of a new version of the LTRAN2-NLR (LTRANV) for unsteady viscous transonic flow computations
[NLR-TR-81078-U] 03 p0374 N84-12434
Second order partial differential equations of mixed type 03 p0424 N84-12775
Multiple transonic solutions and a new class of shock transitions in solar and stellar winds 03 p0468 N84-13083
XTRAN2L: A program for solving the general-frequency unsteady transonic small disturbance equation
[NASA-TM-85723] 04 p0479 N84-13150
A grid-embedding transonic flow analysis computer program for wing/nacelle configurations
[NASA-CR-166529] 04 p0480 N84-13158
Transonic flow over an isolated profile and through a cascade of blade. Phenomenological analysis 05 p0626 N84-14118
Nonlinear oscillations of a fluttering panel in a transonic airstream
[AD-A133918] 05 p0627 N84-14124
Computation of compressible flows using finite elements and optimization techniques 05 p0678 N84-14456
Nonlinear Green's function method for transonic potential flow 06 p0779 N84-15104
Effects of wall interference on unsteady transonic flows 06 p0779 N84-15105
TAS: A Transonic Aircraft/Store flow field prediction code
[NASA-CR-3721] 06 p0781 N84-15114
Inlet flow field investigation. Part 1: Transonic flow field survey
[NASA-CR-172239] 06 p0782 N84-15123
Computations of projectile magnus effect at transonic velocities
[AD-A133212] 06 p0783 N84-15127
Calculation of transonic flow around two wing-fuselage combinations using a full potential equation method
[FFA-137] 06 p0783 N84-15132
Iterative solution of the finite difference potential equations for subsonic and transonic flows 06 p0835 N84-15436
Explicit multistage finite volume procedure to solve the Euler equations for transonic flow 06 p0838 N84-15464
Numerical computation of transonic flow governed by the full-potential equation 06 p0839 N84-15469
Two dimensional condensing flow in transonic turbine cascades 06 p0841 N84-15484
Unsteady pressure and force measurements associated with transonic buffeting of a two-dimensional supercritical airfoil
[AD-A133139] 06 p0844 N84-15503
Explicit second order splitting schemes for solving hyperbolic nonlinear problems: Theory and application to transonic flow
[ESA-TT-768] 06 p0902 N84-15855
Numerical modeling and fast-solver calculation of approximately normal shocks
[NLR-MP-82026-U] 06 p0902 N84-15856
Some new developments in exact integral equation formulations for sub- or transonic potential flow
[NLR-MP-82024-U] 06 p0903 N84-15860
Acoustic shocks in a variable area duct containing near sonic flows
[NASA-CR-172274] 06 p0908 N84-15897
Transonic noise generation by duct and profile flow
[AD-A129367] 06 p0908 N84-15899
Self-sustained oscillations of a shock wave interacting with a boundary layer on a supercritical airfoil
[NASA-CR-175338] 07 p0945 N84-16131
The effect of discrete spanwise regions of bleed on pseudo-two-dimensional base flow at transonic speeds
[ARL-AERO-NOTE-418] 07 p0945 N84-16132
Comparison of calculated and measured pressures on straight and swept-tip model rotor blades
[NASA-TM-85872] 07 p0947 N84-16143
Application of an inviscid-viscous interaction method to transonic compressor cascades 07 p0954 N84-16190
A coupling method for the inverse mode calculation of transonic internal flows with a shock wave 07 p0955 N84-16194
Investigation of flow phenomena in a transonic fan rotor using laser anemometry
[NASA-TM-83555] 08 p1098 N84-17143
TWINTN4: A program for transonic four-wall interference assessment in two-dimensional wind tunnels
[NASA-CR-3777] 08 p1106 N84-17189
Automatic adaptive grid refinement for the Euler equations
[NASA-CR-173161] 08 p1222 N84-17977
La Recherche Aerospatiale bimonthly bulletin, number 1983-3, 214/May-June
[ESA-TT-822] 08 p1226 N84-18014
Aerodynamic design for improved manueverability by use of three-dimensional transonic theory
[NASA-TP-2282] 09 p1250 N84-18161
Experiment of a shockless transonic airfoil
[NAL-TR-783] 09 p1251 N84-18166
Calculation of three-dimensional flying object in shockless transonic flow
[NAL-TR-782] 09 p1251 N84-18167
Reduction of the shock wave intensity by modifying the transonic blade trailing edge
[NASA-TM-77029] 09 p1251 N84-18169
Unsteady viscous transonic flow computations using LTRAN2-NLR code coupled with Green's lag-entrainment method
[NLR-MP-82052-U] 09 p1253 N84-18181
Computations of transonic, chemically reacting flows in rocket nozzles
[NAL-TR-766] 09 p1274 N84-18318
Experimental determination of the relative flow at the tip of a transonic axial compressor rotor
[AD-A137483] 10 p1420 N84-19286
Analysis of transonic shock induced separated flow including normal pressure gradients
[AD-A137052] 10 p1422 N84-19298
Flow generation in a novel centrifugal diffuser test device
[AD-A136874] 10 p1492 N84-19754
Newton like: Minimal residual methods applied to transonic flow calculations
[NASA-CR-172305] 10 p1568 N84-20275
Numerical solution of three-dimensional unsteady transonic flow over wings including inviscid/viscous interactions
[NASA-CR-166561] 11 p1600 N84-20478
Entropy condition satisfying approximations for the full potential equations of transonic flow
[NASA-TM-85751] 11 p1601 N84-20485
Two-dimensional wind tunnel wall interference
[AD-A138964] 11 p1603 N84-20499
Computation of viscous flow about advanced projectiles
[AD-A137935] 11 p1653 N84-20790
A computational method for predicting the effects of varying Reynolds number and dynamic pressure on flexible wings at transonic speeds 12 p1764 N84-21508
Transonic flow calculations using triangular finite elements 13 p1925 N84-22529
Redesign and cascade tests of a supercritical controlled diffusion stator blade-section
[NASA-TM-83635] 13 p1926 N84-22533
More precise numerical simulation of transsonic flow through passages in turbomachines 13 p1970 N84-22786
Transonic flow around protruding corner with free streamline 13 p1972 N84-22796
Further development of XTRAN3S computer program
[NASA-CR-172335] 14 p2101 N84-23608
Artificial mass concept and transonic viscous flow equation
[AD-P002946] 14 p2198 N84-24186
Calculation of transonic flow in a linear cascade
[NASA-TM-83697] 15 p2255 N84-24539
A vectorized finite element method for computation of transonic tridimensional potential flows
[SNIAS-832-111-105] 15 p2257 N84-24555
Investigation of the behavior of axial compressor stages with steady state inlet distortions
[DFVLR-FB-83-39] 15 p2262 N84-24590
Panel method for perturbations of transonic flows with finite shocks 16 p2442 N84-25669
Contribution to the study of a numerical implicit method for solving the Euler equations
[ONERA-NT-1983-8] 16 p2486 N84-25958
Recent developments in multigrid methods for the steady Euler equations 16 p2492 N84-25988
Implicit time dependent methods for the solution of the Euler equations 16 p2492 N84-25989
Implicit time dependent methods for the solution of the Euler equations. Part 2: Application to transonic flows 16 p2492 N84-25990
Transonic aeroelastic stability and response of conventional and supercritical airfoils including active controls 17 p2598 N84-26655
Calculation of transonic potential flow past wing-tail-fuselage configurations using the multigrid method 17 p2599 N84-26657
The method of complex characteristics for design of transonic compressors 17 p2599 N84-26659
Integrating multigrid relaxation into a robust fast-solver for transonic potential flows around lifting airfoils
[NLR-MP-83021-U] 17 p2601 N84-26673
Transonic panel method for the full potential equation applied to multi-component airfoils
[NLR-MP-83030-U] 17 p2601 N84-26674
Interaction of turbulent boundary layer and upward density jump at transsonic stream velocities 17 p2648 N84-26937
Numerical optimization design of advanced transonic wing configurations
[NASA-TM-85950] 18 p2792 N84-27718
A three-dimensional transonic, potential flow computer program, its conversion to IBM FORTRAN and utilization
[AD-A140936] 18 p2921 N84-28521
Three-dimensional transonic potential flow about complex 3-dimensional configurations
[NASA-CR-3814] 19 p2958 N84-28749
Study of asymptotic theory of transonic wind tunnel wall interference
[AD-A141431] 19 p2958 N84-28751
Investigation of the mechanism of transonic shock wave/boundary layer interactions using a Navier-Stokes analysis
[AD-A141551] 19 p2959 N84-28752
Transonic interference flow-field analysis for wing-body-pylon-store
[AD-A141811] 19 p2959 N84-28754
Acta mechanica sinica (Selected articles)
[AD-A142128] 19 p3024 N84-29180
Acceleration to a steady state for the Euler equations
[NASA-CR-172398] 20 p3126 N84-29852
Computation of inviscid transonic flow using flux vector splitting in generalized coordinates 21 p3323 N84-31067
Unsteady transonic aerodynamic and aeroelastic calculations about airfoils and wings
[NASA-TM-85986] 21 p3324 N84-31092
Comparison of the full potential and Euler formulations for computing transonic airfoil flows
[NASA-TM-85983] 21 p3324 N84-31094
Shock-free transonic airfoil design by a hodograph method
[AD-A142752] 21 p3325 N84-31098
Diffusion transfer during near-sonic turbulence 21 p3486 N84-32090
Subsonic and transonic unsteady- and steady-pressure measurements on a rectangular supercritical wing oscillated in pitch — wind tunnel tests
[NASA-TM-85765] 22 p3530 N84-32348
Improvements in the accuracy and stability of algorithms for the small-disturbance and full-potential equations applied to transonic flows
[NASA-TM-85970] 22 p3530 N84-32350
Unsteady transonic flow in cascades
[NASA-TM-83780] 22 p3530 N84-32351
A linear aerodynamic analysis for unsteady transonic cascades
[NASA-CR-3833] 22 p3531 N84-32355
Analysis of three-dimensional transonic compressors
[NASA-CR-166580] 22 p3531 N84-32356
Simulation of transonic separated airfoil flow by finite difference viscous-inviscid interaction
[NASA-TM-85980] 22 p3531 N84-32358
Unsteady viscous-inviscid interaction procedures for transonic airfoil flows
[AD-A143764] 23 p3690 N84-33390
Research on topics in perturbation methods, transonic flow theory, numerical analysis and adaptive grid generation
[AD-A143641] 23 p3833 N84-34315
Flow-field measurements on an airfoil with an oscillating trailing-edge using holographic interferometry
[NASA-CR-166604] 24 p3852 N84-34430

TRANSONIC FLUTTER
Transonic flutter clearance for a supercritical transport aircraft in the preliminary stage
02 p0170 N84-11121
Numerical simulation of transonic flutter of a high-aspect-ratio transport wing
[NAL-TR-776T] 09 p1257 N84-18208
Experience with transonic unsteady aerodynamic calculations
[NASA-TM-86278] 22 p3530 N84-32353
Subsonic/transonic stall flutter investigation of a rotating rig
[NASA-CR-174825] 23 p3695 N84-33417
TRANSONIC INLETS
U SUPERSONIC INLETS
TRANSONIC NOZZLES
Transonic nozzle-afterbody flow field measurements using a laser Doppler velocimeter
14 p2098 N84-23592
TRANSONIC SPEED
An experimental documentation of trailing-edge flows at high Reynolds number
[NASA-TM-84375] 01 p0076 N84-10498
An experimental investigation of nacelle-pylon installation on an unswept wing at subsonic and transonic speeds
[NASA-TP-2248] 09 p1250 N84-18162
Transonic calculation of airfoil stability and response with active controls
[NASA-TM-85770] 12 p1765 N84-21513
Numerical simulation of the tip vortex off a low-aspect-ratio wing at transonic speed
[NASA-TM-85932] 13 p1926 N84-22535
EET theoretical design techniques
18 p2784 N84-27666
Experiment versus theory 19 p3098 N84-29679
Unsteady transonic flow in cascades
[NASA-TM-83780] 22 p3530 N84-32351
Computer studies of hybrid-slotted working sections with minimum interference at subsonic speeds
[NASA-TM-86002] 22 p3535 N84-32379
TRANSONIC TURBINES
U SUPERSONIC TURBINES
TRANSONIC WIND TUNNELS
Three-dimensional test experience with a transonic adaptive-wall wind tunnel
[AD-A129858] 01 p0016 N84-10102
Supersonic loads due to shuttle-orbiter/external-tank attachment structures 01 p0019 N84-10122
Reynolds number tests of an NPL 9510 airfoil in the Langley 0.3-meter transonic cryogenic tunnel
[NASA-TM-85663] 02 p0173 N84-11141
Video model deformation system for the National Transonic Facility
[NAS 1.15:85681] 02 p0222 N84-11457
Analysis of pressure distributions on a wing with an oscillating trailing edge flap in subsonic and transonic flow 04 p0478 N84-13145
Three-dimensional effects on airfoils
[NASA-TM-77025] 06 p0781 N84-15118
A quasi-continuous transonic wind tunnel for cryogenic operation
[ROLLAB-MEMO-RM-098] 06 p0792 N84-15161
Transonic cryogenic test section for the Goettingen tube facility
[NASA-TM-77050] 07 p0959 N84-16219
Tests on a CAST 7 two-dimensional airfoil in a streamlining test section
[NASA-CR-172291] 08 p1097 N84-17136
Evaluation of turbulence induced noise in coherent anti-Stokes Raman scattering
[NASA-CR-166544] 08 p1227 N84-18015
Results of the test on ONERA calibration model M5 in NAL 2m x 2m Transonic Wind Tunnel
[NAL-TR-774T] 09 p1259 N84-18215
Development of a wind tunnel test section with adaptive flexible walls for three-dimensional flow
[BMFT-FB-W-83-026] 10 p1495 N84-19776
The status of analytical preparation for 2-dimensional testing at high transonic speeds in the University of Southampton transonic self-streamlining wind tunnel
[NASA-CR-3785] 11 p1602 N84-20494
Two-dimensional wind tunnel
[NASA-TM-76963] 11 p1620 N84-20602
Application of laser velocimetry to unsteady flows in large scale high speed tunnels
[NASA-CR-166575] 12 p1765 N84-21511
Laser velocimeter optical traverse scheme: An investigation of a proposed optical scanning technique for Arnold Engineering and Development Center's four-foot transonic wind tunnel
[AD-A138168] 12 p1818 N84-21853
Operational experience with the National Transonic Facility 14 p2094 N84-23565
The European Transonic Windtunnel (ETW)
14 p2094 N84-23566
A review and an update of the FDP Specialists Meeting (London) on Wall Interference in Wind Tunnels
14 p2095 N84-23570
A short note on recent advances in the adaptive wall technique for 3D-model tests at the TU-Berlin
14 p2095 N84-23571
Turbulent diffuser flow studies related to the design of the ETW diffuser 14 p2095 N84-23572
Disturbances from ventilated tunnel walls in aerofoil testing 14 p2096 N84-23573
High Reynolds number tests of the cast 10-2/DOA2 transonic airfoil at ambient and cryogenic temperature conditions 14 p2096 N84-23575
Prediction of condensation onset and growth in the European Transonic Wind Tunnel (ETW)
14 p2096 N84-23578
Design of advanced technology manauvering aircraft models for the National Transonic Facility
14 p2096 N84-23590
Design of a wind tunnel afterbody model for the development of a transonic combat aircraft
14 p2096 N84-23591
The wind tunnel S2MA of the aerodynamic testing plant in Modane-Avrieux, France
[ONERA-NT-1983-5] 16 p2454 N84-25735
Half-model testing in the NLR High Speed Tunnel (HST): Its technique and application
[NLR-MP-83036-U] 17 p2601 N84-26675
Computation of imaginary-side pressure distributions over the flexible walls of the test section insert for the 0.3-M transonic cryogenic tunnel
[NASA-CR-172363] 18 p2785 N84-27678
Two-dimensional aerodynamic characteristics of an airfoil designed for two
[NASA-TP-1965] 18 p2788 N84-27694
Study of asymptotic theory of transonic wind tunnel wall interference
[AD-A141431] 19 p2958 N84-28751
Half-model testing in the NLR high speed wind tunnel (HST)
[NLR-TR-82123-U] 20 p3132 N84-29691
Description and validation of the two dimensional test setup for multiple airfoils in the pressurized wind tunnel HST
[NLR-TR-83031-U] 20 p3132 N84-29692
Some factors affecting the selection of the type of new transonic tunnel to best meet Australian needs
[AD-A142957] 21 p3345 N84-31222
Data from tests of a R4 airfoil in the Langley 0.3-meter transonic cryogenic tunnel
[NASA-TM-85739] 23 p3690 N84-33385
Design study of test models of manauvering aircraft configurations for the National Transonic Facility (NTF)
[NASA-CR-3827] 23 p3696 N84-33422
Cryogenic wind tunnel technology. A way to measurement at higher Reynolds numbers
[NASA-TM-77481] 24 p3857 N84-34451
TRANSONICS
U TRANSONIC FLOW
TRANSPARENCE
Liquid impact erosion mechanisms in transparent materials
[AD-A135891] 09 p1287 N84-18405
Preparation and properties of polyurethane and polyurethaneurea elastomers from methylene bis(4-cyclohexylisocyanate)
[AD-A137645] 11 p1637 N84-20704
Altitudinal change in continuous absorption in atmospheric transparency window 8-12 microns
11 p1670 N84-20901
Transparent conductive coatings
12 p1840 N84-21999
Light transmitting window assembly
[NASA-CASE-MSC-18417-1] 13 p2042 N84-23251
New aircraft windshield applications using ion exchange glass
[AD-P003187] 17 p2590 N84-26600
A new and unique conductive element for aircraft transparencies
[AD-P003188] 17 p2590 N84-26601
T-38 student windshield birdproofing efforts utilizing metal and composite materials for aft arch reinforcement
[AD-P003189] 17 p2590 N84-26602
Fluroepoxy and fluroacrylic transparencies
[AD-P003201] 17 p2592 N84-26614
Polycrystalline MgAl2O4 spinel for high performance windows
[AD-P003202] 17 p2592 N84-26615
Swedish Air Force maintenance programme for aged transparent enclosures for jet trainer and jet fighter aircraft
[AD-P003208] 17 p2593 N84-26621
Artificial aging of transparent aerospace materials
[AD-P003210] 17 p2593 N84-26623
Simulation of exposure of aircraft transparencies to flight line environment
[AD-P003212] 17 p2594 N84-26625
Aircraft transparency testing methodology
[AD-P003213] 17 p2594 N84-26626
A triangulation technique for obtaining deflections of aircraft transparencies during bird impact testing
[AD-P003220] 17 p2595 N84-26633
Visual perception through windscreens: Effects of minor occlusions and haze on operator performance
[AD-P003223] 17 p2596 N84-26636
The reduction of life-cycle costs through continuing acrylic maintenance
[AD-P003224] 17 p2596 N84-26637
The certification of polycarbonate transparencies: An appeal for reasonable requirements
[AD-P003225] 17 p2596 N84-26638
The wiper abrasion and rain erosion resistance of transparent materials and coatings for aircraft glazing
[AD-P003227] 17 p2596 N84-26640
Validation of the MAGNA (Materially and Geometrically Nonlinear Analysis) computer program for nonlinear finite element analysis of aircraft transparency bird impact
[AD-P003229] 17 p2596 N84-26642
MAGNA (Materially and Geometrically Nonlinear Analysis) computer simulation of bird impact on the F-15 aircraft canopy
[AD-P003230] 17 p2597 N84-26643
Parametric studies of the T-38 student windshield using the finite element of code MAGNA (Materially and Geometrically Nonlinear Analysis)
[AD-P003232] 17 p2597 N84-26645
Current problems and progress in transparency impact analysis
[AD-P003233] 17 p2597 N84-26646
Status of new aerothermodynamic analysis tool for high-temperature resistant transparencies
[AD-P003236] 17 p2598 N84-26649
Measurement of thickness of SiO/sub 2 insulation layers in silicon structures with dielectric insulation
18 p2824 N84-27929
Transparent arrays: Progress toward higher efficiency
19 p3048 N84-29338
Optical distortion analyzer system
[AD-D011127] 22 p3656 N84-33176
Characterization of infrared optical properties of transparent materials
[AD-A143988] 23 p3825 N84-34257
Method for dynamically recording distortion in a transparency
[AD-D011209] 24 p3902 N84-34707
TRANSPARENT MATERIALS
U TRANSPARENCE
TRANSPIRATION
High-temperature-turbine-technology program. Phase 2: Technology test and support studies
[DE83-015200] 01 p0092 N84-10597
Transport assessment: Arid task. Model verification studies
[DE84-000121] 04 p0555 N84-13653
Measurement of unsaturated flow below the root zone at an arid site
[DE84-006575] 15 p2359 N84-25158
Desert emergency of lack of water; how to find and collect water
[AD-A140961] 18 p2789 N84-27703
Desert emergency - lack of water - how to find and collect water. Plants and human survival in the desert
[AD-A142025] 20 p3228 N84-30513
TRANSPLANTATION
A study of stress-free living bone and its application to space flight
[NASA-CR-171786] 16 p2535 N84-26275
TRANSPONDERS
A comparison of the domestic satellite communications forecast to the year 2000
[NASA-TM-83518] 01 p0062 N84-10405
Video processor for air traffic control beacon system
[NASA-CASE-KSC-11155-1] 06 p0829 N84-15395
Digital transponder 11/14 GHz, 120 Mbit/sec. Phase 2: Transponder test equipment and system measurements
[BMFT-FB-W-83-013] 07 p0994 N84-16448
Digital transponder (14/11 GHz, 120 Mbit/sec.). Phase 1: Preinvestigation and modem development
[BMFT-FB-W-83-019] 07 p0995 N84-16449
Advanced technology satellites in the commercial environment. Volume 1: Executive summary
[NASA-CR-174635-VOL-1] 11 p1621 N84-20611
Advance technology satellites in the commercial environment, volume 2
[NASA-CR-174635-VOL-2] 11 p1621 N84-20612
Range safety transponder catalog
[AD-A140095] 15 p2270 N84-24631
Transponder optimization by computer simulation
[MBB-UR-817-83-O] 16 p2563 N84-26445

Error analysis for marine geodetic control using the global positioning system
[AD-A140566] 17 p2605 N84-26687
Unit production cost of the radar beacon transponder (Rbx)
[AD-A121532] 17 p2652 N84-26956
Cost analysis of Mode S data link avionics system for the low-performance general aviation aircraft community
[DOT/FAA/PM-83/36] 18 p2795 N84-27735
Quick Deployment Vehicle (QDV)
[AD-D011060] 22 p3563 N84-32563

TRANSPORT AIRCRAFT
NT A-300 AIRCRAFT
NT BOEING 707 AIRCRAFT
NT BOEING 727 AIRCRAFT
NT BOEING 737 AIRCRAFT
NT BOEING 747 AIRCRAFT
NT C-5 AIRCRAFT
NT C-9 AIRCRAFT
NT C-130 AIRCRAFT
NT C-135 AIRCRAFT
NT C-140 AIRCRAFT
NT C-141 AIRCRAFT
NT CARGO AIRCRAFT
NT CONCORDE AIRCRAFT
NT DC 10 AIRCRAFT
NT EUROPEAN AIRBUS
NT L-1011 AIRCRAFT
NT SH-3 HELICOPTER
NT SHORT HAUL AIRCRAFT
NT TANKER AIRCRAFT
NT UH-60A HELICOPTER
Improved air shipment of fruit reported this year
01 p0001 N84-10005
Vertical drop test of a transport fuselage section located forward of the wing
[NASA-TM-85679] 01 p0094 N84-10611
Aeroelastic design of civil transports at the project stage 02 p0170 N84-11120
The initial design of active control systems for a flexible aircraft 02 p0171 N84-11125
Computational vortex flow aerodynamics
03 p0324 N84-12117
Evaluation of a total energy-rate sensor on a transport airplane
[NASA-TP-2212] 03 p0332 N84-12164
Auxiliary power units for wide-body aircraft
03 p0334 N84-12174
Some thoughts concerning large load-carrying vehicles
[NASA-TM-85701] 04 p0477 N84-13139
Aerodynamic characteristics, including effect of body shape, of a Mach 6 aircraft concept
[NASA-TP-2235] 04 p0481 N84-13164
Two decades of air carrier jet operation
06 p0775 N84-15080
Development of a systems theoretical procedure for evaluation of the work organization of the cockpit crew of a civil transport airplane
[NASA-TM-77359] 07 p1051 N84-16806
Redesign of cargo mobility containers
[AD-A137396] 10 p1424 N84-19312
SKETCH: A computer program for plotting a transport airplane configuration in conceptual design
[VTH-LR-388] 10 p1429 N84-19348
Experimental and analytical investigation of active loads control for aircraft landing gear
10 p1510 N84-19886
Large aircraft handling qualities
11 p1615 N84-20570
Fuel efficient engines for large transport — aircraft
[PNR-90196] 13 p1934 N84-22580
Ilyushin design bureau achievements profiled
14 p2093 N84-23554
Fluid dynamic aspects of turbine engine testing
14 p2098 N84-23586
Fuel system design concepts for broad property fuels
14 p2109 N84-23645
A vectorized finite element method for computation of transonic tridimensional potential flows
[SNIAS-832-111-105] 15 p2257 N84-24555
The use of Arall in fuselage skins
[AD-B080831] 15 p2260 N84-24572
Statistical approach to damage tolerance assessment
[SNIAS-832-111-112] 15 p2260 N84-24575
Carbon structures on the wing of the regional transport plane ATR-42
[SNIAS-832-111-113] 16 p2448 N84-25704
Windshield problems on UK operated transport sized jet aircraft 1976 to 1982
[AD-P003228] 17 p2596 N84-26641
In-flight investigation of landing approach flying qualities of transport aircraft with relaxed static stability
[DFVLR-FB-84-11] 17 p2610 N84-26706
EET theoretical design techniques
18 p2784 N84-27666
New world records set by AN-72 transport
18 p2784 N84-27672
Integrated Application of Active Controls (IAAC) technology to an advanced subsonic transport project: Current and advanced act control system definition study
[NASA-CR-3545] 18 p2796 N84-27744
Pressure distribution data from tests of 2.29-meter (7.5-ft.) span EET high-lift research model in Langley 4- by 7-meter tunnel
[NASA-TM-83111] 19 p2957 N84-28739
Wind tunnel tests of high-lift systems for advanced transports using high-aspect-ratio supercritical wings
[NASA-CR-3523] 19 p2957 N84-28742
Study on transport airplane unplanned water contact
[AD-A142092] 19 p2961 N84-28764
Improving the efficiency of smaller transport aircraft
[NASA-TM-85992] 19 p2963 N84-28780
Integrated Application of Active Controls (IAAC) technology to an advanced subsonic transport project: Current and advanced act control system definition study. Volume 2: Appendices
[NASA-CR-165631-VOL-2] 19 p2967 N84-28803
Energy efficient engine program contributions to aircraft fuel conservation
[NASA-TM-83741] 20 p3130 N84-29876
Minimum-fuel, 3-dimensional flightpath guidance of transfer jets
[NASA-TP-2326] 22 p3537 N84-32394
Aircraft, ships, spacecraft, nuclear plants and quality
[DE84-013262] 22 p3655 N84-33166
The handling and performance trials needed to clear an aircraft to act as a receiver during air-to-air refuelling
24 p3848 N84-34405

TRANSPORT COEFFICIENTS
U TRANSPORT PROPERTIES

TRANSPORT PROPERTIES
NT ATMOSPHERIC CONDUCTIVITY
NT CARRIER MOBILITY
NT DIFFUSION COEFFICIENT
NT EDDY VISCOSITY
NT ELECTRICAL RESISTIVITY
NT ELECTRON MOBILITY
NT GAS VISCOSITY
NT GASEOUS DIFFUSION
NT GASEOUS SELF-DIFFUSION
NT IONIC MOBILITY
NT IONOSPHERIC CONDUCTIVITY
NT MAGNETORESISTIVITY
NT PHOTOCONDUCTIVITY
NT PLASMA CONDUCTIVITY
NT SUPERCONDUCTIVITY
NT THERMAL CONDUCTIVITY
NT THERMAL DIFFUSIVITY
NT VISCOSITY
Study of deep-level defects and transport properties vs. growth parameters and annealing conditions in III-IV compound semiconductors
[AD-A130776] 01 p0153 N84-11008
Transport and fate of acid rains out of North America
[DE83-015819] 02 p0244 N84-11597
Eddy-correlation measurements of the resistance to vertical transport of ozone
[DE83-015363] 02 p0244 N84-11600
Numerical simulation of global ozone transport during stratospheric sudden warming 02 p0245 N84-11605
A numerical study of the structure and vertical transport properties of a tropical convective system
02 p0252 N84-11651
Carboxylic acid ionophores as probes of the role of calcium in biological systems 02 p0264 N84-11735
Environmental impact research program. Two-equation, depth-integrated turbulence closure for modeling geometry-dominated flows
[AD-A132347] 04 p0533 N84-13505
PATH: A lumped-element beam-transport simulation program with space charge
[DE84-001330] 04 p0599 N84-13953
The MIXPAC: A subroutine package for calculating equations of state for equilibrium mixtures of materials
[DE84-002302] 05 p0730 N84-14796
Workshop on the Physics and Modeling of Submicron Structures
[AD-A134528] 07 p1081 N84-17026
Artificially layered superconductors
[DE84-002766] 07 p1082 N84-17037
Electrode noise in beta aluminas
[AD-A134837] 08 p1152 N84-17497
Estimation of North America anthropogenic sulfur deposition as a function of source/receptor separation
[DE84-003638] 08 p1182 N84-17701
High field transport of free carriers at the Si-SiO2 interface
[AD-A135338] 08 p1235 N84-18071
Electron ballistic effects in III-V semiconductors
[AD-A135353] 08 p1235 N84-18072
Spectroscopy of thermal energy transport
[AD-A134670] 08 p1235 N84-18073
Turbulent transport models for scramjet flowfields
[NASA-CR-172284] 10 p1491 N84-19747
Transport studies of ECH heated bumpy torus plasmas
[IPPJ-652] 10 p1580 N84-20353
Transport properties of selected metal oxides
11 p1740 N84-21356
Proton transport in beta alumina
11 p1743 N84-21371
Borophosphate vitreous electrolytes: The relationship between local order, thermal stability and ion transport
11 p1743 N84-21372
On the convective properties of the resistive hose instability in an intense relativistic electron beam
[AD-A137527] 12 p1902 N84-22386
The microstructure theory for three dimensional plasma transport
[AD-A138285] 12 p1910 N84-22441
Superlattices and semiconductor/semiconductor interfaces
[AD-A138149] 12 p1913 N84-22465
Development of holographic interferometry for welding arc analysis
[DE84-005454] 13 p1994 N84-22940
Dense Coulomb plasmas: Quantum statistics and ordering 15 p2410 N84-25484
Transport properties of amorphous silicon-germanium alloy films. Volume 2: Appendices
[DE84-006879] 15 p2414 N84-25495
Transport properties of amorphous silicon-germanium alloy films. Volume 1: Technical summary
[DE84-006878] 15 p2414 N84-25497
Deflection and vibration in shear-deformable beams and laminated composites made of bimodular and multimodular materials 16 p2503 N84-26066
Resistivity of a 2-D electron gas under strong magnetic field using a memory function formulation
[INPE-3118-PRE/513] 16 p2558 N84-26407
Resistivity of a disordered 2-D electron gas in terms of force-force correlation function
[INPE-3065-PRE/482] 16 p2558 N84-26408
Memory function formalism applied to electronic transport in disordered systems
[INPE-3064-PRE/481] 16 p2559 N84-26418
Transport processes in dendritic crystallization
18 p2936 N84-28621
Transport properties of concentrated solutions
[DE84-008495] 20 p3181 N84-30210
Application of molecular dynamics to macroscopic particles
[DE84-011066] 20 p3186 N84-30244
International Workshop on Biophysical Correlates of Cellular Function UNESCO
[AD-A142490] 20 p3257 N84-30671
Temperature rise calculations for the beam pipe in the SLC arcs
[DE84-011764] 20 p3295 N84-30924
Transverse field focused system
[DE84-011070] 20 p3298 N84-30942
Cation self-diffusion in Fe2O3
[DE84-009152] 20 p3310 N84-31025
Environment and fracture
[DE84-011454] 21 p3367 N84-31360
Transport behavior of multivalent beta aluminas
[AD-A142968] 21 p3370 N84-31382
Transport properties and dielectric strengths of gas mixtures for use in diffuse discharge opening switches
[DE84-011444] 21 p3394 N84-31536
Environmental impact research program. An implicit, wiggle-free, and accurate upstream finite-difference algorithm for the 1-dimensional transport-diffusion equation
[AD-A143141] 21 p3436 N84-31802
A 1-dimensional time dependent model of the stratospheric aerosol 21 p3437 N84-31808
Two phase system; interfacial turbulence
[AD-A143182] 22 p3593 N84-32754
Electron localization and superconductivity of very thin epitaxially grown ag films on ge(001)
[AD-A143469] 22 p3663 N84-33224
Molecule microscopy 22 p3681 N84-33337
Gallium arsenide field-effect transistor magnetic field studies
[AD-A144058] 23 p3742 N84-33721
A users guide to KLYSMA 2: A multifluid transport code
[AD-A143784] 23 p3828 N84-34278
Dynamics of heat, mass and momentum transfer in an inductively coupled plasma
[DE84-014121] 23 p3828 N84-34282

TRANSPORT THEORY
NT CHAPMAN-ENSKOG THEORY
NT MIXING LENGTH FLOW THEORY

Neoclassical transport in a multiple-helicity torsatron in the low-collisionality regime: Strong radial electric-field limit
[DE83-016463] 02 p0296 N84-11941
A revised two-equation model of turbulence
[CFD/83/5] 03 p0374 N84-12436
Transition flow ion transport via integral Boltzmann equation
[UTIAS-269] 03 p0432 N84-12828
Vectorized Monte Carlo photon transport
[DE83-014807] 03 p0434 N84-12843
Evolution of the ultra high energy cosmic ray spectron by transport equation
[DE83-013711] 03 p0476 N84-13132
Development of multicomponent transport theory and transport data for membranes in concentrated electrolytes
[DE84-001846] 04 p0495 N84-13249
Method of operator splitting or fractional steps and its applications to fluid-dynamic modelling
[DE84-000800] 04 p0534 N84-13511
Simulations and theoretical implications of KMS transport experiments for 1.05 micron and 0.53 micron laser radiation
[DE84-000824] 04 p0542 N84-13570
Beam dynamics in the Advanced Test Accelerator (ATA)
[DE84-001421] 04 p0598 N84-13947
Steady-state hydrogen transport in solids exposed to fusion-reactor plasmas. Part 3: Applications of theory
[DE84-001646] 04 p0611 N84-14033
Transport and radiative processes in the Io plasma torus 05 p0749 N84-14916
Effects of neutral beam injection on impurity transport in Tokamaks
[DE84-001857] 05 p0750 N84-14926
Nonlinear interaction of toroidicity induced drift modes
[DE84-001562] 06 p0921 N84-15987
Transport processes in the central equatorial Atlantic and their influence on the heat content
[REPT-113] 07 p1041 N84-16752
Plasma effects on Hellac configurations: A preliminary investigation
[DE84-002299] 07 p1077 N84-17002
Transport and relaxation processes in supercritical fluids
[DE84-002182] 07 p1081 N84-17030
Mass and momentum turbulent transport experiments with confined swirling coaxial jets
[NASA-CR-168252] 08 p1156 N84-17530
Estimation of temporally and spatially varying coefficients in models for insect dispersal
[AD-A135093] 08 p1218 N84-17946
Calcium elicited asymmetric auxin transport in gravity influenced root segments 09 p1352 N84-18935
Computational physics program at National MFE Computer Center
[DE84-004802] 10 p1574 N84-20318
Neoclassical transport associated with collisionless detrapping in a bumpy torus
[IPPJ-651] 10 p1580 N84-20350
Applied mathematics of transport theory
[DE84-004135] 10 p1590 N84-20422
Discrete elements method of neutral particle transport
[AD-A138090] 12 p1902 N84-22384
Neoclassical current studies in high beta plasmas
[DE84-005052] 12 p1910 N84-22445
Theoretical influence of the deposition conditions on the uniformity of boron carbide coatings 13 p1954 N84-22707
Loeb solutions of the Boltzmann equation
[CTH-MATH-1983-82] 13 p1991 N84-22926
Electrical conductivity of an arbitrarily dense plasma
[DE84-008006] 14 p2230 N84-24374
Application of the finite element method to study crystal growth 15 p2307 N84-24840
Stability of flow processes for dissipative solids with internal imperfections
[ISSN-0208-5658] 15 p2331 N84-24998
Internal gravitation waves in a stably stratified atmosphere
[KBMI-WR-84-1] 15 p2368 N84-25206
Reversed-field pinch dynamics and transport studies
[DE84-009054] 15 p2411 N84-25472
One-dimensional transport code for field-reversed configurations
[DE84-007449] 15 p2411 N84-25477
Transport, stability and relaxation of a Spheromak
[DE84-007285] 15 p2412 N84-25479
Evaluating parameters of vertical exchange of ocean waters by radioisotopic methods 18 p2858 N84-28146
Modeling kinetics of aerodisperse phase in ocean surface layer 18 p2859 N84-28153
Finite element solution of a self-adjoint transport equation in one dimension
[AD-A141225] 18 p2926 N84-28557
Plasma confinement in self-consistent, one-dimensional transport equilibria in the collisionless-ion regime of EBT operation
[DE84-001861] 19 p3108 N84-29751
DDRFP transport code
[DE84-008573] 19 p3109 N84-29753
Transport properties of concentrated solutions
[DE84-006495] 20 p3181 N84-30210
Application of molecular dynamics to macroscopic particles
[DE84-011068] 20 p3186 N84-30244
The Earth's radiation belts
[AD-A142673] 20 p3241 N84-30574
Applied mathematics of transport theory
[DE84-011498] 20 p3282 N84-30838
Rotation and impurity transport in a Tokamak plasma with directed neutral beam injection
[DE84-008014] 20 p3306 N84-30996
RF-induced stability and transport in axisymmetric tandem mirrors
[DE84-010842] 20 p3306 N84-30999
A 1-dimensional time dependent model of the stratospheric aerosol 21 p3437 N84-31808
Azimuthal electric fields and tandem ambipolarity
[DE84-010843] 21 p3501 N84-32189
Assessment of plasma transport and convection at high latitudes 23 p3837 N84-34343
Study of total gamma spectra correlation for extending identification range over photopeak analysis
[AD-A144637] 24 p3962 N84-35090

TRANSPORTATION
NT AIR TRANSPORTATION
NT MARINE TRANSPORTATION
NT RAIL TRANSPORTATION
NT RAPID TRANSIT SYSTEMS
NT SPACE SHUTTLE BOOSTERS
NT SPACE SHUTTLE ORBITERS
NT SPACE TRANSPORTATION
NT SPACE TRANSPORTATION SYSTEM
NT URBAN TRANSPORTATION
An experimental study of an ultra-mobile vehicle for off-road transportation
[AD-A131449] 02 p0303 N84-11991
PATRAM '83: 7th International Symposium on Packaging and Transportation of Radioactive Materials, summaries
[DE83-012390] 03 p0439 N84-12881
Catalog of selected heavy duty transport energy management models
[NASA-CR-168299] 05 p0761 N84-14991
Measuring energy use in urban travel using a sketch planning model
[DE83-015375] 05 p0761 N84-14992
Fuel cells for transportation applications
[DE84-003969] 09 p1310 N84-18564
Report to Congress on the Automotive Technology Development Program
[DE84-004097] 09 p1325 N84-18660
Engineering fabrics in transportation construction
[PB84-144856] 12 p1804 N84-21763
Research activities at the Institute for Aerospace Studies, 1982 12 p1917 N84-22492
USSR Report: Transportation
[JPRS-UTR-84-009] 18 p2790 N84-27709
Microcomputers in transportation: Software and source book
[PB84-195155] 22 p3638 N84-33067
A heuristic method for the problem of the distribution of perishable cargos
[INPE-3133-PRE/524] 23 p3832 N84-34309

TRANSPORTATION ENERGY
Technology assessment of productive conservation in urban transportation
[DE83-012179] 01 p0163 N84-11070
Two-stage process for conversion of synthesis gas to high quality transportation fuels
[DE84-009624] 20 p3166 N84-30106

TRANSPORTER
Braking-turning-maneuvering stability of heavy transporters 10 p1512 N84-19897

TRANSURANIUM ELEMENTS
NT AMERICIUM
NT AMERICIUM 241
NT PLUTONIUM
NT PLUTONIUM 238

TRANSVERSE ACCELERATION
Auroral ion acceleration
[PR-783] 06 p1184 N84-17715
Approximations for elastic layers and a three-dimensional elasticity solution for a simply supported rectangular plate 15 p2314 N84-24884
A device for the acceleration of convergence of a monotonously enclosing iteration method 16 p2541 N84-26307

TRANSVERSE OSCILLATION
On the stability of the unsteady boundary layer on a cylinder oscillating transversely in a viscous fluid
[NASA-CR-172216] 01 p0076 N84-10499
Triggering at high luminosity: Fake triggers from pile-up 06 p0913 N84-15932
An empirical model for vortex-induced vibrations
[PB84-161157] 16 p2493 N84-25998

TRANSVERSE VIBRATION
U TRANSVERSE OSCILLATION

TRANSVERSE WAVES
Approximation of compressible fluid in fluid-structure interaction problems
[CSIR-R/NIAST-15] 11 p1651 N84-20778
Numerical simulations of the structure and propagation of self-sustained detonations
[AD-A142486] 20 p3184 N84-30230
Parametric excitation of transverse acoustic slot waves in solids by means of microwave electric field 21 p3478 N84-32045
Transverse flow CW atomic iodine laser system
[AD-D011098] 22 p3601 N84-32810
Temperature compensation of surface transverse waves for stable oscillator applications
[AD-A144245] 24 p3894 N84-34660

TRANSVERSELY EXCITED ATMOSPHERIC LASERS
U TEA LASERS

TRAPATT DIODES
U AVALANCHE DIODES

TRAPPED PARTICLES
NT MAGNETICALLY TRAPPED PARTICLES
NT RADIATION BELTS
Mechanism switching and trapping of Triplet-Triplet energy transfer in an orientationally disordered molecular solid
[AD-A130660] 01 p0142 N84-10931
Laser-Cooled and Trapped Atoms
[PB83-238196] 02 p0192 N84-11249
Nonlinear interaction of toroidicity induced drift modes
[DE84-001562] 06 p0921 N84-15987
Resonance fluorescence and photon trapping of two atoms on a metallic surface
[AD-A134512] 07 p1072 N84-18964
Optical excitation of trapping states in Fe doped InP
[AD-A134183] 07 p1080 N84-17019
A detailed consideration of resonance radiation trapping in the argon inductively coupled plasma
[AD-A136633] 09 p1391 N84-19065
Neoclassical transport associated with collisionless detrapping in a bumpy torus
[IPPJ-651] 10 p1580 N84-20350
Nonlinear trapped electron response for drift wave turbulence in Tokamaks
[DE84-005385] 11 p1737 N84-21335
A detailed consideration of resonance radiation trapping in the argon inductively coupled plasma
[AD-A139369] 14 p2222 N84-24334
The dc acceleration of charged particles by an electrostatic wave propagating obliquely to a magnetic field vector B sub O
[IPPJ-671] 19 p3106 N84-29735
The effect of trapped electrons on the beam-induced current 2
[IPPJ-673] 19 p3106 N84-29736
Trapped particle absorption by the Ring of Jupiter
[NASA-CR-173919] 22 p3679 N84-33323

TRAPPING
Self-pumping impurity control by in-situ metal deposition
[DE83-014265] 02 p0195 N84-11265
Magnetic trapping of intense ion beams
[DE83-017356] 03 p0437 N84-12866
Hole trapping, recombination, and space charge in irradiated Sandia oxides
[DE83-015212] 03 p0454 N84-12966
Assessing and displaying the effects of elevated trapping layers in support of Navy command and control
[AD-A142216] 19 p3008 N84-29065

TRAPS
NT ION TRAPS (INSTRUMENTATION)
Deep traps in AlGaAs layers at AlGaAs-GaAs interfaces
[DE84-005234] 11 p1745 N84-21387
Investigation of charge coupled devices for signal processing
[AD-A139820] 15 p2329 N84-24985

TRAVEL
Terrain travel simulation: Data and application
[AD-P003359] 18 p2912 N84-28472

TRAVELING SALESMAN PROBLEM
A fast heuristic based on spacefilling curves for minimum-weight matching in the plane
[AD-A129657] 01 p0129 N84-10846

A simple algorithm for the metric traveling salesman problem 22 p3573 N84-32631

TRAVELING WAVE AMPLIFIERS

Ladder supported ring bar circuit [NASA-CASE-LEW-13570-1] 07 p0995 N84-16452

A TWT amplifier with a linear power transfer characteristic and improved efficiency [NASA-TM-83590] 12 p1810 N84-21803

TRAVELING WAVE MASERS

Superconducting niobium thin film slow-wave structures 04 p0518 N84-13405

New high power coherent radiation sources [AD-A137317] 10 p1479 N84-19662

Availability of the DSN telemetry data system and its major elements, including the TWM assemblies 22 p3575 N84-32639

A study of DSN traveling wave maser system reliability 22 p3575 N84-32640

TRAVELING WAVE TUBES

High space harmonic perturbations in traveling wave tubes [AD-A130204] 01 p0070 N84-10458

Performance of computer-designed small-size multistage depressed collectors for a high-perveance traveling wave tube [NASA-TP-2248] 06 p0829 N84-15394

Beam impingement angle effects on secondary electron emission characteristics of textured pyrolytic graphite [NASA-TP-2285] 09 p1286 N84-18400

The Mark 3 linac as a high current source for FEL (Free Electron Lasers) experiments [AD-A136312] 09 p1320 N84-18625

A new Traveling Wave Tube (TWT) cooling concept — for ers-1 10 p1445 N84-19436

Development and qualification of a 20 GHz/30 W traveling wave tube — for satellites [BMFT-FB-W-83-023] 10 p1488 N84-19727

Theory of the two-frequency operating mode of traveling-wave tubes of the O type [AD-A137616] 11 p1646 N84-20763

A TWT amplifier with a linear power transfer characteristic and improved efficiency [NASA-TM-83590] 12 p1810 N84-21803

Users' manual for computer program for three-dimensional analysis of coupler-cavity traveling wave tubes [NASA-CR-168269] 14 p2141 N84-23841

Secondary electron emission characteristics of ion-textured copper and high-purity isotropic graphite surfaces [NASA-TP-2342] 19 p2997 N84-28889

Development of a 30 GHz/10 W traveling wave tube [BMFT-FB-W-84-004] 19 p3019 N84-29142

Interrelation between parameters of M-type traveling wave tube 22 p3568 N84-32598

Universal control grid modulator [AD-D011108] 22 p3580 N84-32672

DC (Direct-Current) partial-discharge-environmental screening of space TWTs (Traveling Wave Tubes) [AD-A143230] 22 p3586 N84-32710

TRAVELING WAVES

NT SOLITARY WAVES

Transient overvoltages on cable sheaths [BLL-OA-TRANS-2620-[6196.3)] 01 p0069 N84-10448

Waves on vortex cores and their relation to vortex breakdown 03 p0326 N84-12128

Remarks on the Kuramoto-Sivashinsky equation [DE84-001018] 04 p0590 N84-13901

Directed graphs and traveling waves [AD-A132861] 05 p0738 N84-14845

On the model equations which describe nonlinear wave motions in a rotating fluid [AD-A134556] 07 p1002 N84-16499

Wave attenuation in periodic structures [AD-A136924] 13 p2001 N84-22984

Vibration and flutter of mistuned bladed-disk assemblies [NASA-TM-83634] 14 p2157 N84-23923

The numerical calculation of traveling wave solutions of nonlinear parabolic equations on the line [AD-A139238] 14 p2212 N84-24283

Travelling wave bistability 14 p2237 N84-24426

Dependance of velocity on depth determined from travel-time curves of refracted waves in randomly inhomogeneous media 17 p2701 N84-27208

Tension waves in tethered satellite cables [NASA-TM-85799] 18 p2807 N84-27820

Hopf bifurcation and symmetry: Traveling and standing waves on the circle [MC-TW-249/83] 19 p3091 N84-29631

Amplification of traveling magnetostatic waves by parametric pumping 21 p3479 N84-32050

Conditions of filtration burning of porous condensed systems with multiple passage of reaction wave 21 p3483 N84-32076

Electronic cancelling of acoustic traveling waves [AD-D011153] 23 p3735 N84-33667

Radiation pressure on atoms: Laser cooling and intense field effects [AD-A143637] 23 p3754 N84-33793

TRAYS

Aeroelastic stability analysis of the light weight tank LH-2 cable tray [LMSC/D059511] 05 p0692 N84-14543

TREES

The relation between isolated tree brightness temperature and grass background brightness temperature [AD-A135643] 09 p1389 N84-19070

Investigation of forestry resources and other remote sensing data. 1: LANDSAT. 2: Remote sensing of volcanic emissions [E84-10092] 10 p1522 N84-19963

Embedding of networks of processors into hypercubes [AD-A139847] 15 p2397 N84-25384

Investigation of spectral signatures of differently damaged trees and forest stands 23 p3769 N84-33892

TREES (MATHEMATICS)

NT FAULT TREES

A fully automatic proof of an ordered tree insertion function [AD-A130720] 01 p0133 N84-10868

On some issues concerning optimization and decision trees [AD-A134109] 05 p0733 N84-14815

Partially ordered computations with applications to VLSI design 08 p1208 N84-17680

Ordered address binary trees: A technique for the optimization of access to trees on disk [INPE-2916-PRE/426] 13 p2026 N84-23133

A preprocessing procedure method in ternary clause selection [AD-P002327] 14 p2189 N84-24118

How to assemble tree machines [AD-A139963] 15 p2330 N84-24968

Virtual Z-trees: A balancing technique for multiway search trees [INPE-3093-TDL/164] 16 p2547 N84-26348

Compacted virtual search tree and addressed ordered binary trees for file organization [INPE-3075-TDL/161] 16 p2548 N84-26349

Approximating the level probabilities in order restricted inference: The simple tree ordering [AD-A140684] 17 p2760 N84-27525

Human reliability analysis using event trees [S/T-REPT-VOL-1-NO-3] 20 p3265 N84-30718

Simulation of large networks of processors by smaller ones [AD-A143529] 22 p3643 N84-33098

TREES (PLANTS)

NT CONIFERS

Aromatic biosynthesis in pine tissues 09 p1357 N84-18866

Rainfall chemistry and potential beneficial-detrimental impact to indigenous vegetation [AD-A138471] 12 p1845 N84-22027

Inventory of numeric data for carbon dioxide research, revision 1 [DE84-013663] 21 p3449 N84-31881

TREMORS

Stress assessment through voice analysis [AD-A132577] 04 p0573 N84-13773

TRENDS

A measure of the conformity of a parameter set to a trend: The partially ordered case [AD-A131214] 02 p0285 N84-11866

Statistical trend analysis methodology for rare failures in changing technical systems [JUEL-SPEZ-215] 07 p1067 N84-16928

ORNL trends and balances, 1984-1989 [DE84-006320] 11 p1746 N84-21397

A preliminary study of the feasibility of detecting long-term trends in atmospheric humidity [DE84-006417] 14 p2180 N84-24055

TRESCA FLOW

Elasto-plastic analysis of plane stress problems using uniaxial symmetric Tresca yield surface and kinematic hardening 01 p0093 N84-10606

TRIAMINOTRINITROBENZENE

U TATB

TRIANGLES

Qualitative study of the planar isosceles three-body problem [PREPRINT-35] 20 p3133 N84-29896

TRIANGULAR WINGS

U DELTA WINGS

TRIANGULATION

Evaluation of controlling low altitude aerial photography using high altitude aerotriangulation 02 p0234 N84-11539

Triangulations (tilings) and certain block triangular matrices [DE84-003579] 07 p1064 N84-16902

Norm estimates for a maximal right inverse of the divergence operator in spaces of piecewise polynomials [AD-A136889] 10 p1573 N84-20309

On an algorithm for external triangulation of ELV polygons [CSIR-TWISK-267] 11 p1712 N84-21162

Bivariate quadratic splines on crisscross triangulations [AD-P002979] 14 p2202 N84-24215

An implementation of Watson's algorithm for computing 2-dimensional Delaunay triangulations [QUEL-1509/83] 15 p2391 N84-25345

Estimation of variances and covariances in the multivariate and in the incomplete multivariate model 16 p2504 N84-26073

Determination of stratospheric wind profiles by digital analysis [AD-A140502] 16 p2531 N84-26251

A seaborne navigation trial utilising a Differential Omega system [ERL-0295-TM] 17 p2604 N84-26684

Error analysis for marine geodetic control using the global positioning system [AD-A140566] 17 p2605 N84-26687

Assurance of unity of tests of semiconductor products 17 p2637 N84-26868

Triangular extrapolation [AD-A144660] 24 p3952 N84-35025

TRIAXIAL STRESSES

Identification of strain-softening properties and computational predictions of localized fracture [AD-A141866] 19 p3036 N84-29258

Method for defining the distribution of triaxial stress states in underground structures [DE84-010591] 20 p3202 N84-30342

TRIAXIALITY

U TRIAXIAL STRESSES

TRIBOLOGY

Temperature analysis in lubricated simple sliding rough contacts 01 p0089 N84-10579

Numerical methods and computers used in elastohydrodynamic lubrication [NASA-TM-83524] 02 p0228 N84-11498

Thermal conductance and torque of thin section four-point contact ball bearings in vacuum [ESA-ESTL-54] 06 p0853 N84-15562

Activities report of the European Space Tribology Laboratory (ESTL) [ESA-ESTL-55] 06 p0853 N84-15563

Surface topographical changes measured by phase-locked interferometry [NASA-CR-3757] 07 p1074 N84-16984

Tribological characteristics of gold films deposited on metals by ion plating and vapor deposition [NASA-TM-83572] 08 p1130 N84-17352

First European Space Mechanics and Tribology Symposium [ESA-SP-196] 09 p1294 N84-18454

The tribology of gears for satellite applications 09 p1296 N84-18470

Friction and wear of iron in sulfuric acid [NASA-TP-2289] 12 p1796 N84-21716

Friction and wear of nickel in sulfuric acid [NASA-TP-2290] 12 p1797 N84-21721

Wear damage to materials — tribology 14 p2126 N84-23747

Tribology in the 80's. Volume 1: Sessions 1 to 4 [NASA-CP-2300-VOL-1] 14 p2152 N84-23891

Status and direction of tribology as a science in the 80's. Understanding and prediction 14 p2152 N84-23892

Importance and definition of materials in tribology. Status of understanding 14 p2152 N84-23893

Importance of properties of solids to friction and wear behaviour 14 p2153 N84-23895

Metallic adhesion and bonding 14 p2153 N84-23897

Considerations in friction and wear 14 p2154 N84-23903

Composites for increased wear resistance: Current achievements and future prospects 14 p2154 N84-23904

Ion plating as a deposition method for tribological coatings [VTT-13] 15 p2296 N84-24778

Low wear partially fluorinated polyimides [NASA-TM-83629] 15 p2301 N84-24806

On geometrical accuracy in precise metal forming 15 p2308 N84-24845

Tribology in the 80's. Volume 2: Sessions 5 - 8 [NASA-CP-2300-VOL-2] 15 p2340 N84-25047

Temperature effects in elastohydrodynamically lubricated contacts 15 p2340 N84-25049

Status of understanding for gear materials
15 p2342 N84-25061
Status of understanding for seal materials
15 p2343 N84-25062
The importance of thermal-vacuum testing in achieving high reliability of spacecraft mechanisms
15 p2347 N84-25065
Tribological applications of surface analysis
[NASA-TM-83707] 16 p2460 N84-25786
Metallurgy: Development of material recovery
16 p2465 N84-25795
Estimation of wear rate during selective mass transfer
17 p2642 N84-26903
Proceedings of the 5th Symposium on applied surface analysis
[AD-A140744] 17 p2768 N84-27576
ORNL research programs on refrigeration systems, ECUT materials and tribology
[DE84-007542] 19 p3032 N84-29232
European Space Tribology Laboratory: Facilities, services, capabilities
[ESA-BR-12] 20 p3199 N84-30317
Hard Coatings for Tribological Systems Operating under Extreme Conditions
[DE84-009660] 21 p3368 N84-31369
Microstructure and surface chemistry of amorphous alloys important to their friction and wear behavior
[NASA-TM-83762] 22 p3555 N84-32508
The friction behavior of semiconductors Si and GaAs in contact with pure metals
[NASA-TM-83779] 22 p3558 N84-32531
A study of the tribological properties of graphite fiber-glass matrix composites 23 p3710 N84-33520
Life tests of ball bearings at 120C in helium atmosphere
[JUEL-1911] 23 p3757 N84-33816

TRICHLORIDES
U CHLORIDES

TRIGGER CIRCUITS
The rocket-triggered lightning investigation
[AD-A131409] 02 p0249 N84-11631
A frequency stabilization and trigger control unit for hybrid TEA-CO2 lasers
[AD-A132247] 04 p0540 N84-13552
Trigger systems which could operate at a luminosity of 10/sup 33 cm(-2) to sec/sup -1
06 p0911 N84-15918
Searching for limitations in capability due to high average rates 06 p0911 N84-15919
Triggering at high luminosity: Fake triggers from pile-up 06 p0913 N84-15932
Fast asynchronous level 1 pre-trigger for electrons at L = 10/sup 33 cm-2 sec-1 06 p0913 N84-15933
Muons and electrons in general
06 p0914 N84-15938
Pulsed thyristor trigger control circuit
[NASA-CASE-MFS-25616-1] 07 p0996 N84-16455
Inexpensive solid-state trigger unit for thyratrons
[DE84-001424] 08 p1152 N84-17501
UV laser triggering of crowbars used in the Sandia lightning simulator
[DE84-009064] 20 p3180 N84-30199

TRIGGERS
U ACTUATORS

TRIGONOMETRIC FUNCTIONS
NT COSINE SERIES
NT TANGENTS

TRIGONOMETRY
Some links between turtle geometry and analytic geometry
[AD-A138319] 12 p1882 N84-22269

TRIM (BALANCE)
U AERODYNAMIC BALANCE

TRINITRO COMPOUNDS
Synthesis and properties of trisubstituted trinitrobenzenes. TATB analogs
[AD-A131619] 02 p0203 N84-11322

TRINITROTOLUENE
Reactivity of TNT and TNA-microbial reduction products with soil components
[AD-A135512] 08 p1182 N84-17698
Products from the detonation of trinitrotoluene in air and nitrogen
[AD-A137809] 11 p1639 N84-20713
Investigation of detonation chains. Part 13: Continuous measurement of the detonation velocity of pressed TNT using an ultrahigh speed camera
[PML-1982-3] 12 p1814 N84-21825
The influence of lattice imperfections on the chemical reactivity of solids. The growth and perfection of TNT (trinitro-toluene) single crystals
[AD-A140408] 16 p2560 N84-26425
The effects of impurities and additives on the growth of polycrystalline TNT
[MRL-R-916] 24 p3890 N84-34629

TRINITROTRIAZOCYCLOHEXANE
U RDX

TRIODES
Chemical and physical processes on nonemissive grids — grid controlled amplifier tubes
[EVT-825] 12 p1794 N84-21700
Spectral power density extrema for microwave emission from a relativistic reflex triode
[AD-A139771] 15 p2329 N84-24984
Breakdown processes in large-area cold-cathode vacuum triodes
[DE84-014026] 22 p3602 N84-32817

TRIPLE AXIS SPECTROMETERS
U NEUTRON SPECTROMETERS

TRIPLET EXCITATION
U ATOMIC ENERGY LEVELS

TRIPLET STATE
U ATOMIC ENERGY LEVELS

TRIPROPELLANTS
U LIQUID ROCKET PROPELLANTS

TRITIUM
Novel neutralized-beam intense neutron source for fusion technology development
[DE83-014953] 01 p0144 N84-10949
Radioactivities in returned lunar materials and in meteorites
[NASA-CR-171710] 02 p0308 N84-12018
Tokamak fusion reactors with less than full tritium breeding
[DE83-016711] 03 p0446 N84-12936
Electrolytic gettering of tritius from air
[DE84-000174] 04 p0496 N84-13252
Reduction of tritium permeation through iron using aluminum-ion implantation
[DE84-000184] 04 p0500 N84-13279
d-d Tokamak reactor assessment
[DE83-016127] 04 p0609 N84-14019
Stratospheric tritium sampling
[DE84-006074] 12 p1848 N84-22045
Evaluation of arctic test of tritium radioluminescent lighting
[AD-A139176] 14 p2104 N84-23619
Transport of deuterium, tritium and helium in a Tokamak
[REPT-84-150] 17 p2766 N84-27567
Calculation of molecular final states and their effect on a precision neutrino mass experiment
[DE84-011071] 20 p3295 N84-30921

TROCHOIDS
U PIVOTS

TROMBE WALLS
Empirical validation of computer models for passive-solar residences
[DE83-016887] 03 p0457 N84-13005
Hybrid space heating/cooling system with Trombe wall, underground venting, and assisted heat pump
[DE84-000406] 04 p0559 N84-13686
Solid state phase change materials for thermal energy storage in passive solar heated buildings
16 p2518 N84-26163

TROPICAL METEOROLOGY
Tropical cyclones affecting Guam (1671-1960)
[AD-A134016] 05 p0708 N84-14638
Tropical cyclone operational plan for the Southwest Indian Ocean
[WMO-618] 06 p0882 N84-15741
Mariners Weather Log, volume 27, number 2, Fall 1983
[PB84-133115] 10 p1541 N84-20100
FGGE level 3-B daily global analyses, part 3
[PB84-135854] 10 p1541 N84-20101
Low frequency variability and tropical-extratropical interactions 12 p1859 N84-22113
Study of the 13 GHz signal attenuation due to tropical rains
[CRPE-NT-113] 13 p1984 N84-22879
Fiscal Year 1983 programs, fiscal year 1984 projections
[PB84-156146] 14 p2181 N84-24066
Tropical cyclone data tape for the North Atlantic Basin, 1886 - 1983: Contents, limitations and uses
[NOAA-TM-MWS-NHC-22] 16 p2531 N84-26252
Mean upper tropospheric flow over the global tropics, volume 1
[AD-A141227] 18 p2869 N84-28341
Mean upper tropospheric flow over the global tropics, volume 2
[AD-A141484] 19 p3058 N84-29402
Southern oscillation-El Nino events: Characteristics, evolution, and precipitation anomalies
[INPE-2976-PRE/438] 22 p3627 N84-32983
On the use of meteorologic satellites in hydrology
[INPE-2879-PRE/404] 23 p3763 N84-33851
GMS observations of Typhoon 8205, 8212, 8213
23 p3800 N84-34092
Large scale tropical heat sources and global atmospheric energy propagation associated with droughts in Northeast Brazil
[INPE-3227-PRE/578] 24 p3918 N84-34806
A synoptic study of the influence of extra-tropical latitude systems on the climatic variability in northeast Brazil
[INPE-3225-PRE/576] 24 p3922 N84-34824
A study of the influence of extra-tropical latitude systems on the climatic variability in Northeast Brazil
[INPE-3264-PRE/595] 24 p3922 N84-34825

TROPICAL REGIONS
NT AMAZON REGION (SOUTH AMERICA)
A study of the surface layer on an extremely rough surface
[INPE-2629-PRE/361] 02 p0248 N84-11621
A preliminary study of the observed vertical mode structure of the summer circulation over tropical South America
[INPE-2914-PRE/426] 07 p1031 N84-16689
Monthly variation of 200 MB flow in the tropics
[INPE-2953-PRE/435] 07 p1032 N84-16695
Tropical heat sources and their associated large-scale atmospheric circulation
[INPE-2727-TDL/133] 07 p1032 N84-16697
Test of the use of LANDSAT imagery to detect changes in the area of forest in the tropics
[DE84-004444] 08 p1179 N84-17680
Effect of the microclimate on the night sleep and physical fitness of seamen during a cruise in the low latitudes
08 p1196 N84-17813
Checklist and bibliography of benthic marine macroalgae recorded from northern Australia. 1: Rhodophyta
[MRL-R-912] 11 p1692 N84-21039
The ocean and the dynamics of the tropical atmosphere: Its possible predictability
[INPE-2998-PRE/450] 12 p1847 N84-22041
Low frequency variability and tropical-extratropical interactions 12 p1859 N84-22113
The water balance and climate
[INPE-2997-PRE/449] 12 p1859 N84-22114
Some aspects of the high equatorial orbit for the Tropical Earth Resources Satellite (TERS)
[VTH-LR-404] 12 p1904 N84-22400
Large-scale atmosphere-ocean coupling
[AD-A143162] 21 p3447 N84-31873
Automatic analysis of bitemporal LANDSAT data: An application to the study of the evolution of vegetation-covered areas in a tropical region
23 p3766 N84-33887
Tropical cyclone intensity analysis using satellite data
[NOAA-TR-NESDIS-11] 23 p3800 N84-34096
Physiological-hygienic criteria of medical selection of military servicement for work in a hot climate
23 p3807 N84-34135

TROPICAL STORMS
NT HURRICANES
NT TYPHOONS
Forecast verification and reconnaissance data for Southern Hemisphere tropical cyclones
[AD-A130167] 01 p0106 N84-10700
Mariners Weather Log, Spring 1983, volume 27, number 2
[PB83-220491] 01 p0109 N84-10708
Forecasting tropical cyclone recurvature with upper tropospheric winds
[NASA-TM-85114] 02 p0253 N84-11659
Poststorm reconnaissance of Tropical Storm Chris
[AD-A131948] 03 p0411 N84-12688
Tropical cyclones in the Australian/southwest Pacific region 05 p0710 N84-14654
Some effects of surface heating and topography on the regional severe storm environment
06 p0880 N84-15723
Tropical cyclone operational plan for the Southwest Indian Ocean
[WMO-618] 06 p0882 N84-15741
Tropical cyclone wind probability forecasting for the southern hemisphere (WINDPSH)
[AD-A136146] 09 p1350 N84-18817
Subsynoptic variations in SEASAT winds
[PB84-131697] 09 p1350 N84-18823
Study of the seasonal variation of the tropical ocean front between the Brazil Current and the Malvinas Current, using oceanographic and SMS-2 satellite data
[INPE-2780-TDL/137] 10 p1539 N84-20082
An evaluation of 700 mb aircraft reconnaissance data for selected Northwest Pacific tropical cyclones
[AD-A137362] 10 p1540 N84-20089
Mariners Weather Log, volume 27, number 2, Fall 1983
[PB84-133115] 10 p1541 N84-20100
Experiments with a spectral tropical cyclone model
10 p1542 N84-20105
A study of Western North Pacific tropical storms and typhoons that intensify after recurvature
[AD-A138792] 13 p2017 N84-23075

Annual data and verification tabulation Atlantic tropical cyclones, 1983
[PB84-161330] 14 p2181 N84-24067
Microwave remote sensing of ocean surface wind speed and rain rates over tropical storms
17 p2716 N84-27288
Conditions for two-cell structure in severe vortical storms
[AD-A138242] 17 p2734 N84-27381
Mariners Weather Log, Volume 28, Number 1, January-February-March 1984
[PB84-175710] 17 p2735 N84-27385
A spiral analysis technique for monitoring and predicting tropical cyclone intensity using satellite data
[AD-A141468] 19 p3058 N84-29401
Tropical cyclone sea-state probability model development and application
[AD-A142212] 19 p3059 N84-29407
Studies of Chebyshev spectral methods and multigrid methods
[AD-A142014] 20 p3245 N84-30598
Storm severity detecion (RF)
24 p3927 N84-34857

TROPICS
U TROPICAL REGIONS

TROPISM
NT GEOTROPISM
NT GYROTROPISM
Evidence for a regulatory role of calcium in gravitropism 02 p0262 N84-11721
Inhibition of gravitropism in oat coleoptiles by calcium chelation 09 p1352 N84-18831
Mechanism of shoot gravitropism
09 p1352 N84-18836

TROPOPAUSE
Improved HIRS2/MSU soundings using tropopause information 12 p1851 N84-22060
The prediction of tropopause height from clusters of brightness temperatures and its application in the stratified regression temperature retrievals using microwave and infrared satellite measurements
12 p1852 N84-22064
Prospects for improvement of zonal mean temperatures in the UCLA general circulation model
12 p1856 N84-22088
Solar influence on terrestrial weather and global lightning patterns via cosmic ray modulations
24 p3927 N84-34855

TROPOSPHERE
Diagnostic studies of atmospheric blocking patterns
02 p0246 N84-11611
Remote sensing instruments for trace species measurements in the troposphere and stratosphere: A review 03 p0396 N84-12583
Observations of the upper troposphere and lower stratosphere using the urbana coherent-scatter radar
[NASA-CR-174594] 03 p0407 N84-12664
Proceedings of a Workshop on Assessment of Techniques for Measuring Tropospheric N sub x O sub y
[NASA-CP-2292] 04 p0562 N84-13706
Middle latitude forcing of a model tropical atmosphere with horizontally nonuniform basic states
06 p0880 N84-15724
Evaluation of 2 1-D cloud models for the analysis of VAS soundings
[NASA-CR-3771] 06 p0881 N84-15729
Are Northern Hemisphere tropospheric ozone densities larger?
[INPE-2910-PRE/423] 07 p1031 N84-16691
Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F. Buckley ANGB, Colorado
[AD-A134205] 07 p1038 N84-16730
A statistical-dynamical study of the large-scale intraseasonal variability of the northern hemisphere winter circulation 08 p1184 N84-17716
Vertical temperature gradient in troposphere and its relationship to surface temperature according to empirical data 11 p1671 N84-20902
Investigations of micro-turbulence in the bottom of the boundary layer
[AD-A138524] 12 p1861 N84-22123
Kinetic studies of atmospheric reactions of OH radicals 13 p2012 N84-23050
Assessment of ozone as a surrogate for other products of atmospheric photochemical reactions
[PB84-155852] 14 p2177 N84-24042
Documentation of the GLAS fourth order general circulation model. Volume 1: Model documentation
[NASA-TM-86064-VOL-1] 14 p2179 N84-24048
AVHRR aerosol ground truth experiment
[PB84-157882] 14 p2181 N84-24065
D-1 statistical model of tropospheric multipath propagation 15 p2322 N84-24944
A GaAs refractometer for tropospheric studies
15 p2324 N84-24952
D-19 evaluating the height of tropospheric conduction of evaporation 15 p2325 N84-24962
Considerations pertinent to propagation prediction methods applied to airborne microwave equipment
15 p2326 N84-24970
Barotropic studies of stationary extratropical anomalies in the troposphere 16 p2527 N84-26224
Origin of refractive index fluctuations in the mesosphere as opposed to the stratosphere and troposphere
17 p2686 N84-27101
Techniques for studying gravity waves and turbulence: Vertical wind speed power spectra from the troposphere and stratosphere obtained under light wind conditions
17 p2688 N84-27120
Capabilities and limitations of existing MST radars: Colorado wind profilers 17 p2690 N84-27132
Stratosphere and troposphere (S-T) studies at Millstone Hill. Recent results, capabilities and limitations
17 p2691 N84-27137
Capabilities and limitations of the Sondrestrom radar for ST observations 17 p2691 N84-27139
Directivity and spacing for the antenna elements
17 p2693 N84-27154
School of Electrical Engineering.
17 p2694 N84-27156
Data processing techniques used with MST radars: A review 17 p2694 N84-27159
Decoding: Codes and hardware implementation
17 p2694 N84-27160
Decoding: Software implementations
17 p2694 N84-27161
Coherent integration 17 p2695 N84-27162
Real-time MST radar signal processing using a microcomputer running under FORTH
17 p2695 N84-27165
Review of correlation techniques
17 p2695 N84-27166
Influence of tropospheric aerosol on integral albedo of cloudy atmosphere. Underlying surface system
17 p2707 N84-27236
ESA activities in the use of microwaves for the remote sensing of the Earth 17 p2712 N84-27284
Temperature and humidity profiles in the atmosphere from spaceborne lasers: A feasibility study
17 p2716 N84-27292
A new technique for monitoring the water vapor in the atmosphere 17 p2716 N84-27293
Conditions for two-cell structure in severe vortical storms
[AD-A138242] 17 p2734 N84-27381
Proceedings of a Workshop on Research Needs in Heterogeneous Tropospheric Chemistry
[NASA-CP-2320] 18 p2855 N84-28131
Surface and atmospheric boundary layer. Observations from ships, appendix D 18 p2884 N84-28299
Mean upper tropospheric flow over the global tropics, volume 1
[AD-A141227] 18 p2889 N84-28341
Mean upper tropospheric flow over the global tropics, volume 2
[AD-A141484] 19 p3058 N84-29402
Tropospheric chemistry 20 p3218 N84-30441
Tropospheric science 20 p3219 N84-30447
Tropospheric delay effects in radio interferometry
22 p3574 N84-32636
Determination of microwave attenuation due to the influence of atmospheric gases using the radiometric technique
[INPE-2850-PRE/391] 23 p3730 N84-33637
Problems of diffraction and propagation of waves (selected articles)
[AD-A143912] 23 p3731 N84-33650
Calibration of precise satellite altimetry for the ionosphere and wet troposphere — TOPEX
23 p3778 N84-33955
Barreira do Inferno: Five years of ozone research
[INPE-2974-PRE/437] 23 p3796 N84-34073
The high altitude pollution program (1976 - 1982)
[AD-A144390] 24 p3917 N84-34800
Transient convection over the Amazon/Bolivia region and the dynamics of drought over northeast Brazil
[INPE-3226-PRE/577] 24 p3922 N84-34823

TROPOSPHERIC SCATTERING
XWVG: A waveguide program for trilinear tropospheric ducts. Computer program for calculating the signal levels of EM (Electromagnetic) waves propagating over seawater
[AD-A133667] 05 p0669 N84-14399
Adaptive techniques for troposcatter
[AD-A142226] 19 p3008 N84-29066
Joint services electronics program
[AD-A144445] 24 p3898 N84-34685

TROPOSPHERIC WAVES
NT PLANETARY WAVES
On the structure and forcing of tropospheric stationary waves 16 p2527 N84-26225

TROUBLESHOOTING
U MAINTENANCE

TROUGHS
The CTD data collected in the Rockall trough on RRS Shackleton Cruise 5c/78 during JASIN 1978 — salinity, temperature, depth (CTD); air sea interaction (JASIN)
[IOS-147] 02 p0258 N84-11691
Solar thermal technology evaluation, fiscal year 1982. Volume 1: Executive summary
[NASA-CR-173190] 07 p1025 N84-16640
Solar thermal technology evaluation, fiscal year 1982. Volume 2: Technical
[NASA-CR-173191] 07 p1025 N84-16641
A critical assessment of viscous models of trench topography and corner flow
[NASA-CR-173848] 17 p2667 N84-27005
On the quasi-periodic microstrip snake antenna with metal trough backing
[AD-P003510] 21 p3384 N84-31478

TRUCKS
Services to conduct seminars on truck fuel economy for fleet owners and owner operators
[DE83-013365] 02 p0304 N84-11992
A preliminary investigation of the drag and ventilation characteristics of livestock haulers
[NASA-CR-170408] 05 p0761 N84-14990
1981 CRC (Coordinating Research Council) diesel fuel low-temperature operability field test
[AD-A133543] 06 p0813 N84-15289
The relation between isolated tree brightness temperature and grass background brightness temperature
[AD-A135843] 09 p1389 N84-19070
Braking-turning-maneuvering stability of heavy transporters 10 p1512 N84-19997
Prolonged heavy vehicle driving performance: Effects of unpredictable shift onset and duration and convoy versus independent driving conditions
[AD-A139747] 15 p2384 N84-25298
Testing and evaluation of JET electric vehicle models, 600, 1000, and 1000P
[AD-A141187] 18 p2849 N84-28090
Ergonomic aspects of road vehicles. Part 1: A literature survey of some aspects
[IZF-1983-15] 18 p2915 N84-28487
Operation and calibration of the Wincharger 450 model SWECS
[DE84-009757] 20 p3237 N84-30546
Scope for active noise abatement in vehicle diesel engines
[BLL-M-28767-(5825.4)] 20 p3290 N84-30885
The acoustic design of outside broadcast vehicles
[BBC-RD-1984/3] 21 p3381 N84-31454

TRUNCATION (MATHEMATICS)
U APPROXIMATION

TRUNCATION ERRORS
Estimation of parameters for truncated distributions
[AD-A132605] 05 p0735 N84-14827
Linear multistep methods with minimized truncation error for periodic initial value problems
[MC-NW-157/83] 13 p2034 N84-23195

TRUNKS (LINES)
U TRANSMISSION LINES

TRUNNIONS
U SHAFTS (MACHINE ELEMENTS)

TRUSSES
Synchronously deployable truss structure
[NASA-CASE-LAR-13117-1] 07 p0964 N84-16250
Self-shadowing of orbiting trusses
[NASA-CR-173215] 07 p1012 N84-16565
Hinge specification for a square-faceted tetrahedral truss
[NASA-CR-172272] 07 p1015 N84-16586
Development of Test Article Building Block (TABB) for deployable platform systems 08 p1111 N84-17226
Component mode synthesis and large deflection vibrations of complex structures — beams and trusses
[NASA-CR-173338] 09 p1329 N84-18680
Optimization of space structures
14 p2245 N84-24480
Vibration Control Of Space Structures VCOSS B: Momentum exchange and truss dampening
[AD-A139910] 15 p2281 N84-24701
Design and operation of a deployable truss structure
15 p2347 N84-25082
Purdue plane structures analyzer 2: A computerized wood engineering system, 1983 version
[AD-A142042] 19 p3078 N84-29533
Support structures for large infrared telescopes
[NASA-CR-3800] 20 p3200 N84-30328
The post-buckling equilibrium and the dynamic collapse of complex hyperstatic pin-jointed lattices and reticulated shells 21 p3417 N84-31667
Simple examples of non linear truss behavior
[AD-A143368] 22 p3611 N84-32882

Ground test article for deployable space structure systems
[NASA-CR-171158] 24 p3858 N84-34457
Investigation of multiple controller system efficiency as applied to the CSDLI model
[AD-A144597] 24 p3949 N84-35002

TRYPSIN
Use of microwaves to improve nutritional value of soybeans for future space inhabitants
[NASA-CR-175336] 07 p1051 N84-16805

TRYPTAMINES
NT SEROTONIN

TRYPTOPHAN
Dissociation of amino acid-DNA complexes under influence of long-wave UV light
20 p3258 N84-30680

TSUNAMI WAVES
Proceedings of the 12th Joint Panel Conference of the US-Japan Cooperative Program in Natural Resources: Wind and Seismic Effects
[PB84-167758] 15 p2318 N84-24911
USSR report: Earth sciences
[JPRS-UES-84-005] 18 p2855 N84-28132
Tsunami warning system discussed at seismologists' meeting 18 p2859 N84-28154
Seismological observations during the I and II Soviet-American expeditions for tsunami study in the open sea 19 p3060 N84-29417
T-phase recording by OBS near the conjugation of the Kuril and Japan trenches 19 p3060 N84-29418
Developments of research on prediction of earthquakes, tsunami and volcanic eruptions in Far East
20 p3224 N84-30485
Proceedings of Tsunami Symposium
[PB84-183482] 20 p3252 N84-30638
Japan Sea central region tsunami of 26 May 1983. A reconnaissance report
[PB84-194703] 21 p3451 N84-31901

TTL INTEGRATED CIRCUITS
East Europe report: Scientific affairs
[JPRS-ESA-84-007] 23 p3728 N84-33628
Soviet integrated circuits in use in GDR
23 p3728 N84-33630
Effects of transient ionizing radiation in various generations of TTL-circuits in the 54/74 series — nuclear explosion effect
[FOA-C-30365-A3] 23 p3744 N84-33736

TUBE ANODES
Fabrication of structures on semiconductors by X-rays: Comparison and optimization of mask technologies
[BMFT-FB-T-83-071] 02 p0300 N84-11968

TUBE CATHODES
NT COLD CATHODES
NT HOT CATHODES
NT PHOTOCATHODES
NT THERMIONIC CATHODES
Auger characterization of new and aged dispenser cathode surfaces
[AD-A140754] 17 p2663 N84-26988

TUBE GRIDS
Ion beamlet steering for two-grid electrostatic thrusters
[NASA-CR-174671] 21 p3354 N84-31274

TUBE HEAT EXCHANGERS
Design and construction of deep tubesheet crevice devices for producing intergranular attack of heat transfer tubing
[DE83-902228] 01 p0045 N84-10287
Acoustic resonance in heat-exchanger tube banks
[DE83-011413] 02 p0219 N84-11436
Steam condenser developments
06 p0841 N84-15486
Dynamics of tubes in fluid with tube-baffle interaction — heat exchanger tubes
[DE84-001452] 07 p1003 N84-16508
Design and test of a cryogenic phase separator for zero-g environment 10 p1442 N84-19418
Flexible radiator system
[NASA-CR-171765] 11 p1623 N84-20623
Ceramic tube materials and processing development
[PB84-151653] 14 p2135 N84-23795
Ceramic component manufacturing technology development — silicon carbide tubing for industrial waste heat recovery
[PB84-215276] 22 p3561 N84-32550

TUBE LASERS
Laser utilizing a gaseous lasing medium and method for operating the same
[DE84-014500] 22 p3602 N84-32819

TUBES
Vertical concentric-tube ground-coupled heat exchangers
[DE83-014003] 02 p0219 N84-11435
Flame radiation and liner heat transfer in a tubular-can combustor
[NASA-TM-83538] 04 p0485 N84-13188
Design aspects of loose buffer tube fiber optics cable
11 p1722 N84-21234
Bubbles rising in a tube and jets falling from a nozzle
[AD-A139268] 14 p2145 N84-23858
Ultrasonic techniques for the inspection of nuclear components
[BLL-RISLEY-TR-4905-(9091.9F)]
18 p2850 N84-28098
Upset weld study for joining 304L stainless steel tubes
[DE84-011507] 20 p3198 N84-30313
Composition alteration of stratospheric air due to sampling through a flow tube: Environmental research papers
[AD-A143319] 22 p3623 N84-32959

TUBING
U PIPES (TUBES)

TUMORS
NT CANCER
Medlars indexing instructions, tumar key supplement, 1984 (Technical Notes)
[PB84-120039] 11 p1750 N84-21424

TUNABLE LASERS
Laser remote sensing of atmospheric pollutants
[AD-A130259] 01 p0103 N84-10670
Velocity visualization in gaseous flows
11 p1610 N84-20543
Study of a tunable CO2/N2O medium pressure waveguide laser
[AD-A138078] 12 p1820 N84-21863
Spectroscopic investigations of materials for tunable infrared lasers
[AD-A136324] 12 p1821 N84-21869
Spectrophone stabilized laser with line center offset frequency control
[NASA-CASE-NPO-15516-1] 13 p1994 N84-22943
Study of gain, bandwidth, and tunability of a millimeter-wave free-electron laser operating in the collective regime
[AD-A139285] 14 p2151 N84-23884
Coherent laser radar remote sensing
[AD-A139448] 14 p2151 N84-23885
Measurement of NO, NO/sub 2, and HNO/sub 3 using a tunable diode laser system. Phase 2: Modification to permit automated simultaneous multi-species monitoring and feasibility study of extension to H/sub 2O/sub 2, CH/sub 2O and HONO
[PB84-160076] 14 p2151 N84-23890
Study of VUV generation by coherent resonant frequency mixing in metal vapors
[AD-A140800] 17 p2663 N84-26989
Long range coherence in free electron lasers
[NASA-CR-173678] 18 p2845 N84-28066
Tunable optical sources
[AD-A140984] 18 p2845 N84-28068
Lead salt diode lasers and development of tunable solid state lasers for remote sensing
[NASA-CR-173783] 19 p3029 N84-29207
Capabilities of broadly-tunable free-electron lasers
[DE84-009998] 19 p3030 N84-29219
Nonlinear theory of the free-electron laser
[INPE-3193-PRE/557] 21 p3409 N84-31618
Multifrequency emission from submillimeter lasers
21 p3487 N84-32096
Picosecond parametric optical oscillator with amplification of radiation from tunable semiconductor laser 21 p3487 N84-32097
Interferometrically tuned laser resonator
[AD-D011125] 22 p3600 N84-32800
Visible and near-infrared dissociation lasers
[AD-A143295] 22 p3601 N84-32807
Optically nonlinear materials for tunable UV-lasers
[BMFT-FB-T-84-133] 23 p3755 N84-33806

TUNGSTEN
Tensile and low-cycle fatigue measurements on cross-rolled tungsten at 1505 K
[DE84-000805] 04 p0499 N84-13273
Chemical vapor deposition of oriented tungsten foils for thermionic cathodes
[AD-A132379] 04 p0612 N84-14040
Study of defects produced in tungsten by 800-MeV protons using field-ion microscopy
[DE84-001359] 04 p0613 N84-14048
Surface studies of WO3/Al2O3 and Ni/W/Al2O3 catalysts
[DE84-000930] 05 p0651 N84-14283
Influence of vibration grinding on the properties of tungsten powders and the quality of sintered pieces
[BLL-M-35373] 08 p1140 N84-17414
Surface property measurement for spacecraft thermal balance testing 10 p1447 N84-19451
Polymerizations of acetylenes and cyclic olefins induced by metal-carbynes
[AD-A137090] 10 p1468 N84-19589
Ferroelectric tungsten bronze bulk crystals and epitaxial thin films for electro-optic device applications
[AD-A138693] 13 p2048 N84-23278
Temperature-compensated piezoelectric materials
[AD-A139279] 14 p2242 N84-24460
Auger characterization of new and aged dispenser cathode surfaces
[AD-A140754] 17 p2663 N84-26988
Computer simulation studies of sputtering from clean tungsten and nitrogen reacted tungsten and molybdenum surfaces
[AD-A140900] 17 p2789 N84-27581
High temperature electronics technology
[AD-A143571] 22 p3586 N84-32714
Use of concentrated solar energy to form slip coatings
24 p3874 N84-34552

TUNGSTEN ALLOYS
Corrosion-resistant behavior of amorphous and crystallized Fe-Ni-Cr-W alloys
[DE83-016815] 02 p0197 N84-11280
Influence of cobalt, tantalum and tungsten on the high temperature mechanical properties of single crystal nickel-base superalloys
[NASA-TM-83479] 06 p1131 N84-17355
Modification of alloy surface composition by segregation processes as a means of impurity control in fusion devices
[DE84-003645] 06 p1134 N84-17373
Strength of hard alloy elements of high pressure apparatus for synthesis of superhard materials
12 p1785 N84-21647
Single crystal growth of ferroelectric tungsten bronze compositions for SAW applications
[AD-A141741] 19 p3110 N84-29763
Engineering basis for selection of positron source material
[DE84-011772] 21 p3494 N84-32143
Sintered hard metal alloys and process for their manufacture
[CSIR-TRANS-1748] 22 p3552 N84-32493

TUNGSTEN CARBIDES
Effect of structural factors on the crack resistance of tungsten carbide/cobalt alloys at high temperatures
[CSIR-1682] 01 p0042 N84-10269
Auger and depth profile analysis of synthetic crystals for dispersion of soft X-rays — tungsten carbides
[DE83-015257] 02 p0293 N84-11918
Novel hard metal compositions and properties
[DE84-001736] 05 p0656 N84-14310
Structure, preparation and properties of refractory compounds and systems (hard materials and hard metals)
[NASA-TM-77076] 07 p0974 N84-16309
Wheel efficiency in the diamond-spark erosion grinding of tungsten carbides
[CSIR-TRANS-1693] 08 p1140 N84-17418
Procedure for the electroplating of sintered materials containing carbide or cast alloys of tungsten, molybdenum, titanium or zirconium
[BLL-RISLEY-TRANS-4557-(9091.9)]
22 p3551 N84-32484
Sintered hard metal alloys and process for their manufacture
[CSIR-TRANS-1748] 22 p3552 N84-32493

TUNGSTEN COMPOUNDS
NT TUNGSTEN CARBIDES
NT TUNGSTEN OXIDES
A melt for electrolytic tungsten plating --- using a carbamide base and ammonium chloride
[BLL-OA-TRANS-3160-(6196.3)]
09 p1281 N84-18369
Temperature-compensated piezoelectric materials
[AD-A139279] 14 p2242 N84-24460

TUNGSTEN INERT GAS WELDING
U GAS TUNGSTEN ARC WELDING

TUNGSTEN OXIDES
Investigation of electrochromic effects for display application
[BMFT-FB-T-83-212] 10 p1457 N84-19519
Variable transmittance electrochromic windows
16 p2517 N84-26158

TUNING
NT SCHULER TUNING
High-Q perpendicular-biased ferrite-tuned cavity
[DE83-017291] 04 p0529 N84-13478
Tuned analog network
[NASA-CASE-GSC-12650-1] 05 p0673 N84-14421
Maser cavity servo-tuning system
[NASA-CASE-NPO-15890-1] 06 p0849 N84-15536
Optimal mistuning for enhanced aeroelastic stability of transonic fans
[NASA-CR-173179] 07 p0953 N84-16180
Fabry-Perot interference filters
[AD-A136511] 09 p1388 N84-19068
Tunable far infrared semiconductor sources
[AD-A137777] 11 p1647 N84-20767
Detailed design of a variable volume hydrogen maser
[NASA-CR-175221] 11 p1662 N84-20841

First operation of the Los Angeles free-electron laser oscillator
[DE84-006024] 11 p1664 N84-20856
Spectrophone stabilized laser with line center offset frequency control
[NASA-CASE-NPO-15516-1] 13 p1994 N84-22943
Vibration and flutter of mistuned bladed-disk assemblies
[NASA-TM-83634] 14 p2157 N84-23923
Laboratory evaluation of tunable atomic line molecular spectrometers for benzene analysis
[PB84-177765] 17 p2672 N84-27032
A simulation aid to gain estimates for robust tuning regulators
[RR-245] 18 p2922 N84-28533
Practical aspects of tuning a ringed RFQ
[DE84-011366] 20 p3175 N84-30163
Stable asynchronous two-frequency oscillations in Gunn-effect diode with open resonator structure
22 p3570 N84-32611

TUNING FORK GYROSCOPES
Strapdown inertial systems for tactical missiles using mass unbalanced two-axis rate gyros
16 p2447 N84-25896

TUNNEL DIODES
Plasmon device design: Conversion from surface to junction plasmons with grating-couplers
19 p3047 N84-29330

TUNNEL RESISTORS
U ELECTRON TUNNELING
U RESISTORS

TUNNELING
Slip forms for the construction of PResesd CAst-in-Situ concrete linings for shield tunneling
[AD-A139411] 14 p2134 N84-23792

TUNNELING (EXCAVATION)
Load control of a 300 hp tunnelling machine: Controller modification and testing for underground trials
[RR-230] 05 p0686 N84-14524

TUNNELS
Heron, volume 28, no. 1, 1983. Dynamic elasto-plastic model for reinforced concrete members
[PB84-109057] 08 p1172 N84-17635

TURBIDITY
A test of electroluminescent panels for a helicopter emergency escape lighting system
[AD-A139478] 14 p2103 N84-23616
Effect of multiple scattering on the propagation of light beams in dense nonhomogeneous media
15 p2325 N84-24959

TURBINE BLADES
Rotating-boom facility for evaluation of wind characteristics approaching a wind-turbine blade
[DE83-013117] 01 p0017 N84-10107
High-temperature-turbine-technology program. Phase 2: Technology test and support studies
[DE83-015200] 01 p0092 N84-10597
Examination, evaluation and repair of laminated wood blades after service on the Mod-OA wind turbine
[NASA-TM-83463] 01 p0102 N84-10664
Investigation of two-component two-phase channel flow with heat supply for application in inside cooled turbine blades
02 p0221 N84-11447
Development of strain tolerant thermal barrier coating systems, tasks 1 - 3
[NASA-CR-168251] 03 p0355 N84-12312
Vertical shaft windmill
[NASA-CASE-LAR-12923-1] 03 p0383 N84-12493
A graphics subsystem retrofit design for the bladed-disk data acquisition system
[NASA-TM-83510] 03 p0418 N84-12730
Blade loss transient dynamics analysis with flexible bladed disk
[NASA-CR-168176] 04 p0486 N84-13193
Wear during rubbing of a sintered metal powder body
[AD-A132354] 04 p0544 N84-13584
An investigation of substrate effects on type two hot corrosion of marine gas turbine materials
[AD-A132833] 05 p0655 N84-14303
Use of the WEST-1 wind turbine simulator to predict blade fatigue load distribution
[NASA-TM-83532] 05 p0699 N84-14586
Wind energy concentration within vortex flow fields and its utilization for the generation of energy, phase 1
[BMFT-FB-T-83-157] 05 p0700 N84-14591
Low-cost single-crystal turbine blades, volume 1
[NASA-CR-168218] 06 p0805 N84-15247
General method for fatigue analysis of vertical axis wind turbine blades
[DE84-002654] 06 p0861 N84-15613
Aeroelastic analysis of a Darrieus type wind turbine blade with troposkien geometry 06 p0863 N84-15623
Scaling wind characteristics for designing small and large wind turbines
[DE83-014501] 06 p0880 N84-15726
Compressor and turbine blade boundary layer separation 07 p0955 N84-16196
Flexible conformable clamps for a machining cell with applications to turbine blade machining
[AD-A134942] 08 p1167 N84-17596
Turbine blade testing methods
[NASA-CR-170982] 09 p1256 N84-18201
Television interference measurements near the MOD-2 WT array at Goodnoe Hills, Washington
[DE84-000030] 10 p1482 N84-19688
Measurement and analysis of platform damping in advanced turbine blade response
10 p1514 N84-19911
Review and status of heat-transfer technology for internal passages of air-cooled turbine blades
[NASA-TP-2232] 12 p1814 N84-21826
Thermal stress analysis for a wood composite blade — wind turbines
[NASA-CR-173394] 12 p1826 N84-21903
Film cooling on a gas turbine blade near the end wall
[AD-A138794] 13 p1933 N84-22569
Effect of rotation on thermal state of runner blade through effect on heat transfer on coolant side
13 p1970 N84-22787
Simulation of winds as seen by a rotating vertical axis wind turbine blade
[DE84-009033] 14 p2180 N84-24056
Performance of a high-work low aspect ration turbine tested with a realistic inlet radial temperature profile
[NASA-TM-83655] 15 p2262 N84-24589
The generation of higher levels of turbulence in the test section of the high speed cascade wind tunnel at Brunswick for simulation of turbomachinery conditions
[ESA-TT-815] 16 p2440 N84-25654
Fabrication development for ODS-superalloy, air-cooled turbine blades
[NASA-CR-174650] 16 p2450 N84-25711
Procedure for determination of damping capability of turbomachine blades subjected to heat and centrifugal forces 17 p2642 N84-26905
Estimating thermal fatigue strength of prototype blades in gas turbine engine 17 p2642 N84-26906
Energy efficient engine high-pressure turbine supersonic cascade technology report
[NASA-CR-165567] 18 p2796 N84-27739
Long-term materials test program
[DE84-006899] 18 p2815 N84-27870
Energy efficient engine high-pressure turbine detailed design report
[NASA-CR-165608] 19 p2965 N84-28788
Detailed flow measurements in casing boundary layer of 429-meter-per-second-tip-speed two-stage fan
[NASA-TP-2052] 19 p2966 N84-28795
The initial mechanical design of hot gas turbine blading using limited information
[PNR-90183] 19 p3032 N84-29234
Thermal-stress analysis for wood composite blade — horizontal axis wind turbines
[NASA-CR-173830] 21 p3419 N84-31685
Nonlinear analysis for high-temperature composites: Turbine blades/vanes 21 p3421 N84-31699
Jet spoiler arrangement for wind turbine
[DE84-011303] 21 p3434 N84-31787
Acoustic tests of the MOD-O/5A wind turbine rotor with two different ailerons
[NASA-CR-172427] 21 p3491 N84-32120
Turbine blade and vane heat flux sensor development, phase 1
[NASA-CR-168297] 22 p3598 N84-32790
Potential of metal-matrix composites as superalloy substitutes 23 p3703 N84-33474
High-pressure hydrogen testing of single crystal superalloys for advanced rocket engine turbopump turbine blades
[NASA-TM-86464] 23 p3717 N84-33563
Film cooling on a convex wall: Heat transfer and hydrodynamic measurements for full and partial coverage 23 p3745 N84-33741
The potential for bulk undercooling as an industrial process 24 p3882 N84-34592
Development of a design-oriented Navier-Stokes cascade analysis
[AD-A144594] 24 p3901 N84-34703
Rotationally sampled wind characteristics and correlations with MOD-OA wind turbine response
[PNL-5236] 24 p3916 N84-34794

TURBINE ENGINES
NT BRISTOL-SIDDELEY BS 53 ENGINE
NT GAS TURBINE ENGINES
NT JET ENGINES
NT RAMJET ENGINES
NT SUPERSONIC COMBUSTION RAMJET ENGINES
NT TF-41 ENGINE
NT TURBOFAN ENGINES
NT TURBOJET ENGINES
NT TURBOPROP ENGINES
Gas-turbine demonstration of pyrolysis-derived fuels
[DE83-013610] 01 p0053 N84-10342
Energy efficient engine: Flight propulsion system, preliminary analysis and design update
[NASA-CR-167960] 02 p0179 N84-11170
Size scale effect in cavitation erosion
[NASA-TM-83533] 02 p0193 N84-11254
Application of laser anemometry in turbine engine research
[NASA-TM-83513] 02 p0222 N84-11456
A generalized computer code for developing dynamic gas turbine engine models (DIGTEM)
[NASA-TM-83508] 03 p0333 N84-12166
Progress on ultrasonic flaw sizing in turbine-engine rotor components: Bore and web geometries
[DE83-018081] 03 p0333 N84-12167
Range and endurance of jet-engined airplanes at constant altitude
[REPT-83-A1-SER-A] 04 p0483 N84-13175
Blade loss transient dynamics analysis with flexible bladed disk
[NASA-CR-168176] 04 p0486 N84-13193
Characterization of ceramic vane materials for 10KW turboalternator
[AD-A132505] 04 p0486 N84-13196
PREWATE: An interactive preprocessing computer code to the Weight Analysis of Turbine Engines (WATE) computer code
[NASA-TM-83545] 04 p0578 N84-13812
Aerothermal modeling. Executive summary
[NASA-CR-168330] 06 p0790 N84-15152
Turbine engine lubricant reclamation
[AD-A135926] 09 p1288 N84-18410
Variable stator radial turbine
[NASA-CR-174663] 13 p1932 N84-22568
Fluid dynamic aspects of turbine engine testing
14 p2096 N84-23586
Lewis Research Center spin rig and its use in vibration analysis of rotating systems
[NASA-TP-2304] 15 p2260 N84-24578
Rotorcraft contingency power study
[NASA-CR-174675] 15 p2261 N84-24580
Supersonic STOVL aircraft with turbine bypass/turbo-compressor engines
[NASA-TM-83686] 15 p2261 N84-24582
Performance of a high-work low aspect ration turbine tested with a realistic inlet radial temperature profile
[NASA-TM-83655] 15 p2262 N84-24589
Optimization of fringe-type laser anemometers for turbine engine component testing
[NASA-TM-83658] 15 p2335 N84-25019
Study of effects of fuel properties in turbine-powered business aircraft
[NASA-CR-174627] 16 p2473 N84-25854
Energy efficient engine high-pressure turbine supersonic cascade technology report
[NASA-CR-165567] 18 p2796 N84-27739
Energy efficient engine high-pressure turbine detailed design report
[NASA-CR-165608] 19 p2965 N84-28788
Response of a small-turboshaft-engine compression system to inlet temperature distortion
[NASA-TM-83765] 23 p3694 N84-33414
Manufacturing developments to reduce strategic materials usage 23 p3703 N84-33475

TURBINE PUMPS
Evaluation of pumps for wind-driven irrigation
[DE83-013438] 01 p0090 N84-10587
In-house welding studies supporting the prelaunch assessment of the STS-6 main engines
[NASA-TM-82552] 02 p0229 N84-11499
Linear and nonlinear aspects of rotordynamics
06 p0929 N84-16034
SSME structural dynamic model development
[NASA-CR-170960] 08 p1121 N84-17287
Rotordynamic characteristics of the HPOTP (High Pressure Oxygen Turbopump) of the SSME (Space Shuttle Main Engine)
[NASA-CR-170987] 10 p1438 N84-19389
High pressure oxygen turbopump bearing cage stability analyses — space shuttle main engine
[NASA-CR-170991] 10 p1502 N84-19815
Space Shuttle main engine, powerhead structural modeling, stress and fatigue life analysis. Volume 4: Summary of investigation of unscheduled events and special tasks
[NASA-CR-171002] 11 p1625 N84-20638
A study of pump cavitation damage — space shuttle main engine high pressure oxidizer turbopump
[NASA-CR-170992] 11 p1652 N84-20783
Space shuttle main engine turbopump transducer
[AD-P002680] 11 p1658 N84-20817
Industrial and marine engine derivatives: A spin-off from aviation — gas turbine engines
[PNR-90197] 13 p1934 N84-22581

Measurements of elastohydrodynamic film thickness, wear and tempering behavior of high pressure oxygen turbopump bearings
[NASA-CR-171008] 13 p1997 N84-22960
Bearing tester data compilation, analysis and reporting and bearing math modeling, volume 1
[NASA-CR-171039] 15 p2340 N84-25046
Review of LOX Bearing and Seal Materials Tester (BSMT) radial load system
[NASA-CR-171162] 23 p3756 N84-33810

TURBINE WHEELS
Experimental determination of gap flow-conditioned forces at turbine stages and their effect on the running stability of simple rotors
[NASA-TM-77293] 06 p0852 N84-15553
Optimal misturing for enhanced aeroelastic stability of transonic fans
[NASA-CR-173179] 07 p0953 N84-16180
Ceramic components for gas turbines, phase 2
[BMFT-FB-T-83-198] 08 p1105 N84-17183
Running stability of large rotor bearing foundation models
[ILR-MITT-124/1983] 12 p1823 N84-21887
Optimal design of rotating disk with temperature gradient 15 p2313 N84-24877
A fundamental study of relation between the velocity fields far upstream of, at and far downstream of a a rotor disk in a shear flow — wind turbine flow
[FFA-136] 17 p2667 N84-27006

TURBINES
NT AXIAL FLOW TURBINES
NT GAS TURBINES
NT STEAM TURBINES
NT SUPERSONIC TURBINES
NT TWO STAGE TURBINES
NT WIND TURBINES
Evaluation of the variable reluctance transducer/carrier amplifier method of measuring low pneumatic pressures in aerodynamic and propulsion testing
[AD-A130695] 01 p0064 N84-10546
A critical review of the short crack problem in fatigue
[AD-A131349] 02 p0231 N84-11516
Assessment of three-dimensional inviscid codes and loss calculations for turbine aerodynamic computations
[NASA-TM-83571] 07 p0947 N84-16142
Flow trajectories, mixing and entropy fluxes in a turbine cascade 07 p0955 N84-16193
Effects of a skewed inlet end wall boundary layer on the 3-D flow field in an annular turbine cascade 07 p0956 N84-16202
Solution of particulated viscous flow over a two dimensional cylinder and in a radial inflow turbine 10 p1496 N84-19782
Aeronautics and Space Engineering Board: Aeronautics Assessment Committee
[NASA-TM-85594] 13 p1967 N84-22771
Effect of radial inflow on vortex intensification and its application to wind vortex generators 17 p2724 N84-27335
Energy efficient engine: Low-pressure turbine subsonic cascade component development and integration program
[NASA-CR-165592] 18 p2795 N84-27738
Energy efficient engine: Turbine intermediate case and low-pressure turbine component test hardware detailed design report
[NASA-CR-167973] 19 p2965 N84-28789
Effects of micronic filtration on turbine engine lubricant deposition
[AD-A141802] 19 p2999 N84-29007
Properties of aircraft fuels and related materials
[AD-A141068] 19 p3001 N84-29019
Preliminary assessment of the velocity pump reaction turbine as a geothermal total-flow expander
[DE84-014749] 23 p3791 N84-34043

TURBOCHARGERS
U SUPERCHARGERS
U TURBOCOMPRESSORS

TURBOCOMPRESSORS
Aerodynamics of advanced axial-flow turbomachinery
[AD-A131360] 01 p0012 N84-10073
Flow-field matrix solution for direct problem of flow along S1 relative stream surface employing non-orthogonal curvilinear coordinates and corresponding non-orthogonal velocity components
[AD-A131031] 01 p0079 N84-10512
Transonic flow over an isolated profile and through a cascade of blade. Phenomenological analysis 05 p0626 N84-14118
Experimental methods in compressor noise studies — jet engine tone noise 06 p0767 N84-15028
Aerodynamics and steam wetness fraction of a multistage turbine. Comparison of prediction with experimental data 06 p0840 N84-15475
Design procedures for compressor blades
[NASA-TM-77085] 06 p0852 N84-15552
Application of an inviscid-viscous interaction method to transonic compressor cascades 07 p0954 N84-16190
A viscid inviscid interaction procedure for two dimensional cascades 07 p0955 N84-16191
End-wall boundary layer calculations in multistage axial compressors 07 p0957 N84-16205
Experimental and theoretical studies of parietal viscous boundaries in a single stage transonic compressor 07 p0957 N84-16206
Flow measurements in the stator row of a single-stage transonic axial-flow compressor with controlled diffusion stator blades 07 p0958 N84-16209
Experimental verification of an endwall boundary layer prediction method 07 p0958 N84-16211
Secondary flow spanwise deviation model for the stators of NASA middle compressor stages
[NASA-CR-173360] 09 p1256 N84-18202
Advanced turbocharger design study program
[NASA-CR-174633] 12 p1822 N84-21879
Combustor liner construction
[NASA-CASE-LEW-14035-1] 15 p2260 N84-24577
Supersonic STOVL aircraft with turbine bypass/turbo-compressor engines
[NASA-TM-83686] 15 p2261 N84-24582
Cold-air performance of compressor-drive turbine of department of energy upgraded automobile gas turbine engine. 3: Performance of redesigned turbine
[NASA-TM-83627] 16 p2438 N84-25644
Theory of rotating stall of multistage axial compressors 16 p2489 N84-25964
Unsteady Flow in Turbomachines, volume 2
[VKI-LS-1984-02-VOL-2] 16 p2489 N84-25965
Encounters with surge 16 p2489 N84-25966
Structure of rotating stall cells. Part 1: Absolute motion 16 p2489 N84-25967
Numerical aspects of unsteady flow calculations 16 p2489 N84-25968
Surge prediction in industrial compressors 16 p2489 N84-25969
Structure of rotating stall cells. Part 2: Relative motion 16 p2490 N84-25970
Determination of the stable operating conditions of an axial flow compressor 16 p2490 N84-25971
Unsteady interactions in supersonic compressor stages 16 p2490 N84-25972
Aerodynamic design and performance of a two-stage, axial-flow compressor (Baseline)
[AD-A141796] 19 p2966 N84-28798
PURDU-WINCOF: A computer code for establishing the performance of a fan-compressor unit with water ingestion
[NASA-CR-168005] 20 p3130 N84-29875
Positive displacement compounding of a heavy duty diesel engine
[NASA-CR-168286] 21 p3413 N84-31641
Investigation of the three-dimensional flow field within a transonic fan rotor: Experiment and analysis
[NASA-TM-83739] 22 p3531 N84-32357
Diesel engine catalytic combustor system — aircraft engines
[NASA-CASE-LEW-12995-1] 23 p3758 N84-33806

TURBOCONVERTERS
U TURBOGENERATORS

TURBOELECTRIC CONVERSION
U TURBOGENERATORS

TURBOFAN AIRCRAFT
NT A-7 AIRCRAFT
NT BOEING 707 AIRCRAFT
NT BOEING 727 AIRCRAFT
NT BOEING 737 AIRCRAFT
NT C-141 AIRCRAFT
NT CONCORDE AIRCRAFT
NT CV-990 AIRCRAFT
NT F-111 AIRCRAFT
NT IL-62 AIRCRAFT
Antonov Bureau developing new STOL turbofan for use in far north 18 p2790 N84-27710

TURBOFAN ENGINES
NT BRISTOL-SIDDELEY BS 53 ENGINE
NT TF-41 ENGINE
F100 multivariable control syntheels program. Computer implementation of the F100 multivariable control algorithm
[NASA-TP-2231] 02 p0180 N84-11171
Journal of Engineering Thermophysics (selected articles)
[AD-A129432] 02 p0180 N84-11172
Investigation of wave rotor turbofans for Cruise Missile engines, volume 1
[AD-A131167] 02 p0180 N84-11174
Analytical design of a liquid hydrogen fueled turbofan-ramjet engine for flight Mach numbers zero to five 03 p0336 N84-12187
Range and endurance of jet-engined airplanes at constant altitude
[REPT-83-A1-SER-A] 04 p0483 N84-13175
Work done to determine the source of errors on conditioned pressure transduce signals in the JT9D-7F turbofan engines used on SAA Boeing 747 aircraft
[NIAST-82/78] 04 p0486 N84-13192
PREWATE: An interactive preprocessing computer code to the Weight Analysis of Turbine Engines (WATE) computer code
[NASA-TM-83545] 04 p0578 N84-13812
Comparison of flight results with digital simulation for a digital electronic engine control in an F-15 airplane
[NASA-TM-84903] 05 p0630 N84-14144
Study of noise-certification standards for aircraft engines. Volume 2: Procedures for measuring far field sound pressure levels around an outdoor jet-engine test stand
[AD-A133408] 06 p0791 N84-15158
HYTESS: A hypothetical turbofan engine simplified simulation
[NASA-TM-83561] 07 p0954 N84-16184
Hot-flow tests of a series of 10-percent-scale turbofan forced mixing nozzles
[NASA-TP-2269] 08 p1156 N84-17525
Parallel processor engine model program
[NASA-CR-174641] 10 p1431 N84-19353
Low frequency noise in a quiet, clean, general aviation turbofan engine
[NASA-TM-83520] 10 p1575 N84-20320
International aviation (selected articles)
[AD-A137617] 11 p1599 N84-20473
Test-engine and inlet performance of an aircraft used for investigating flight effects on fan noise
[NASA-TP-2254] 11 p1729 N84-21277
Study of stator-vane fluctuating pressures in a turbofan engine for static and flight tests
[NASA-TP-2217] 12 p1898 N84-22363
Civil turbofan propulsion system integration studies using powered testing techniques at ARA, Bedford
[ARA-MEMO-246] 13 p1931 N84-22561
Engine reliability through bearing condition monitoring — aircraft engines
[PNR-90166] 13 p1933 N84-22570
Emissions variability and traversing on production RB211 engines
[PNR-90176] 13 p1933 N84-22573
Fuel efficient engines for large transport — aircraft
[PNR-90196] 13 p1934 N84-22580
The design and development of a low emissions Transply combustor for the civil Spey engine
[PNR-90198] 13 p1934 N84-22582
A review of advanced manufacturing technology — gas turbine components
[PNR-90194] 13 p1975 N84-22815
Fan noise reduction achieved by removing tip flow irregularities behind the rotor - forward arc test configurations
[NASA-TM-83616] 13 p2040 N84-23235
NASA broad-specification fuels combustion technology program 14 p2107 N84-23637
Future engine technologies and their effect on maintenance — aircraft engines
[PNR-90190] 14 p2110 N84-23651
Development of dynamic simulation of TF34-GE-100 turbofan engine with post-stall capability
[NASA-TM-83660] 16 p2450 N84-25712
Turbofan engine technology evaluation system, user's guide
[AD-A140781] 17 p2609 N84-26704
Langley high-lift research on a high-aspect-ratio supercritical wing configuration 18 p2784 N84-27666
Nacelle Aerodynamic and Inertial Loads (NAIL) project
[NASA-CR-3585] 19 p2963 N84-28777
Preliminary flight evaluation of F100 engine model derivative airstart capability in an F-15 airplane
[NASA-TM-86031] 19 p2965 N84-28792
Energy efficient engine program contributions to aircraft fuel conservation
[NASA-TM-83741] 20 p3130 N84-29876
JT15D simulated flight data evaluation
[NASA-CR-172322] 22 p3536 N84-32387
Energy efficient engine component development and integration program
[NASA-CR-173884] 22 p3536 N84-32389

TURBOFANS
The accelerating pace of advancing aero engine technology
[PNR-90191] 13 p1934 N84-22577
Vibration and flutter of mistuned bladed-disk assemblies
[NASA-TM-83634] 14 p2157 N84-23923
Identification of quasi-steady compressor characteristics from transient data
[NASA-CR-174685] 24 p3855 N84-34444

TURBOGENERATORS
Electrothermal production of magnesium
[CSIR-TRANS-1679] 01 p0039 N84-10250
Outline of methods for design of superconducting turbogenerators
[AD-A132528] 04 p0525 N84-13451
The effects of blade mounted vortex generators on the noise from a MOD-2 wind turbine generator
[NASA-CR-172292] 08 p1227 N84-18017
Developed electrotechnology during a cosmic frost
[AD-A135575] 09 p1308 N84-18552
Problems in the development of high-power turbogenerators with superconducting field windings
[AD-A136525] 09 p1325 N84-18657
Problems of building turbogenerators with windings made of superconductors and pure metals
[AD-A137198] 10 p1485 N84-19710
Laboratory measurements of subsynchronous resonance
[RL-8845] 11 p1667 N84-20677
Wind and solar powered turbine
[NASA-CASE-NPO-15496-1] 13 p2007 N84-23018
Problems of technical electrodynamics (selected articles)
[AD-A140972] 18 p2833 N84-27985
Wind turbine generator interaction with conventional diesel generators on Block Island, Rhode Island. Volume 2: Data analysis
[NASA-CR-168319] 21 p3433 N84-31783
Computer simulation of the heavy-duty turbo-compounded diesel cycle for studies of engine efficiency and performance
[NASA-CR-174755] 22 p3676 N84-33306
Wake studies at the flowind vertical axis wind turbine generator site
[DE84-014837] 23 p3691 N84-33392
Nozzle performance calibration and turbomachinery operational analysis of Turbo-Powered Simulators (TPS) for the NASA-Langley EET propulsion airframe integration investigation
[NASA-CR-165949] 23 p3695 N84-33416

TURBOJET AIRCRAFT
U JET AIRCRAFT

TURBOJET ENGINE CONTROL
Comparison of flight results with digital simulation for a digital electronic engine control in an F-15 airplane
[NASA-TM-84903] 05 p0630 N84-14144
Application of advanced control techniques to aircraft propulsion systems 11 p1618 N84-20590
Propulsion control technology 11 p1619 N84-20600
Helicopter engine technology with particular reference to the Rolls-Royce Gem engine
[PNR-90193] 13 p1934 N84-22578
An expert distributed robotics system with comprehension and learning abilities in the aircraft flight domain
[AD-A139826] 15 p2384 N84-25300
High temperature electronics technology
[AD-A143571] 22 p3586 N84-32714

TURBOJET ENGINES
NT BRISTOL-SIDDELEY BS 53 ENGINE
NT TF-41 ENGINE
NT TURBOFAN ENGINES
NT TURBOPROP ENGINES
Flow-field matrix solution for direct problem of flow along S1 relative stream surface employing non-orthogonal curvilinear coordinates and corresponding non-orthogonal velocity components
[AD-A131031] 01 p0079 N84-10512
Journal of Engineering Thermophysics (selected articles)
[AD-A129432] 02 p0180 N84-11172
Overview of liquid lubricants for advanced aircraft
[NASA-TM-83529] 02 p0199 N84-11296
A graphics subsystem retrofit design for the bladed-disk data acquisition system
[NASA-TM-83510] 03 p0418 N84-12730
The VTX duty cycle developed from T-2C and TA-4J engine usage data
[AD-A133992] 05 p0631 N84-14149
Experimental methods in compressor noise studies — jet engine tone noise 06 p0767 N84-15028
A study of the fundamental problems of combustion in the combustion chambers of turbojets using a tubular reactor 15 p2293 N84-24759
Operational and Performance Measurement on Engines in Sea Level Test Facilities
[AGARD-LS-132] 16 p2452 N84-25723
Optimizing the thrust deflecting surface for the pneumatic thrust deflector
[AD-A140612] 17 p2609 N84-26703
Fuel effects on soot formation in turbojet engines
[AD-A141287] 18 p2821 N84-27912
Effects of wear metal on lubricant deposition
[AD-A142027] 19 p2999 N84-29008

TURBOMACHINE BLADES
NT COMPRESSOR BLADES
NT ROTOR BLADES (TURBOMACHINERY)
NT STATOR BLADES
NT TURBINE BLADES
Vibration analysis of turbomachinery blades by shell theory 01 p0009 N84-10053
Development of an ultrasonic testing procedure for electron beam welded parts for aerospace applications
[BMFT-FB-W-72-011] 03 p0386 N84-12515
Aerodynamic computation method of airfoil cascades subjected to viscous flow 07 p0956 N84-16196
Improved finite-difference vibration analysis of pretwisted, tapered beams
[NASA-TM-83549] 07 p1015 N84-16588
Programs for calculating quasi-three-dimensional flow in a turbomachine blade row
[NASA-TM-83588] 08 p1098 N84-17138
The Shock and Vibration Digest, volume 15, no. 5
[AD-A131729] 10 p1505 N84-19838
Turbomachine blade vibration 10 p1505 N84-19839
Analytical and experimental investigation of rotating blade response due to nozzle passing frequency excitation 10 p1515 N84-19917
The influence of gyroscopic forces on the dynamic behavior and flutter of rotating blades
[NASA-CR-175444] 11 p1608 N84-20524
Calculation of apparent masses in blade ring 13 p1971 N84-22793
Vibration and flutter of mistuned bladed-disk assemblies
[NASA-TM-83634] 14 p2157 N84-23923
Calculation of transonic flow in a linear cascade
[NASA-TM-83697] 15 p2255 N84-24539
The boundary layer on compressor cascade blades
[NASA-CR-173514] 15 p2332 N84-25001
Unsteady Flow in Turbomachines, volume 1
[VKI-LS-1984-02-VOL-1] 16 p2488 N84-25960
Unsteady transonic flow in cascades
[NASA-TM-83780] 22 p3530 N84-32351

TURBOMACHINERY
NT AXIAL FLOW TURBINES
NT CENTRIFUGAL COMPRESSORS
NT CENTRIFUGAL PUMPS
NT GAS TURBINES
NT STEAM TURBINES
NT SUPERSONIC TURBINES
NT TURBINE PUMPS
NT TURBINES
NT TURBOCOMPRESSORS
NT TURBOFANS
NT TURBOGENERATORS
NT TWO STAGE TURBINES
NT WIND TURBINES
North Wind 4-kilowatt wind-system development. Phase 1: Design and analysis. Volume 1: Executive summary
[DE83-012278] 01 p0103 N84-10668
Forced vibration analysis of rotating cyclic structures in NASTRAN
[NASA-CR-165429] 02 p0231 N84-11514
Design and evaluation of small water turbines
[DE84-000404] 04 p0544 N84-13586
Investigation of small particle trajectories through turbomachinery environments 05 p0630 N84-14142
A miniature tilting pad gas lubricated bearing 06 p0819 N84-15340
Three-dimensional turbulent boundary layers in turbomachines 06 p0838 N84-15460
Viscous Effects in Turbomachines
[AGARD-CP-351] 07 p0954 N84-16188
Viscous effects and heat transfer in a calculation method for axisymmetric flow in multistage turbomachines using the stream function 07 p0956 N84-16201
Design study of magnetic eddy-current vibration suppression dampers for application to cryogenic turbomachinery
[NASA-CR-173273] 07 p1012 N84-16562
Analysis of three-dimensional viscous internal flows
[AD-A135762] 09 p1315 N84-18592
Rotordynamic forces developed by labyrinth seals
[AD-A136217] 09 p1316 N84-18599
Computer program for evaluating the Ives transformation in turbomachinery cascades, revision
[AD-A137064] 10 p1571 N84-20295
Analysis of inviscid and viscous flows in cascades with an explicit multiple-grid algorithm
[NASA-TM-83636] 13 p1925 N84-22527
Oxidizing seal for a turbine tip gas path
[NASA-CASE-LEW-14053-1] 13 p1932 N84-22563
Determination of compressor in-stall characteristics from engine surge transients
[NASA-TM-83639] 13 p1932 N84-22566
More precise numerical simulation of transonic flow through passages in turbomachines 13 p1970 N84-22786
Estimation of local stress intensity in flanged thin-wall shell structures under heavy thermal load 13 p1972 N84-22799
Stressed-strained state of flanged shells under heavy thermal load beyond elastic limit 13 p1972 N84-22800
Method of fabricating an abradable gas path seal
[NASA-CASE-LEW-13269-2] 13 p1997 N84-22957
Improved compliant hydrodynamic fluid journal bearing
[NASA-CASE-LEW-13670-1] 13 p1997 N84-22959
Wind and solar powered turbine
[NASA-CASE-NPO-15496-1] 13 p2007 N84-23018
New TPS calibration bench, and ejector tests — wind tunnel turbines and powered models 14 p2099 N84-23594
Calculation of transonic flow in a linear cascade
[NASA-TM-83697] 15 p2255 N84-24539
Lewis Research Center spin rig and its use in vibration analysis of rotating systems
[NASA-TP-2304] 15 p2260 N84-24578
An aerodynamic study of combustion in the combustion chambers of turbomachines: Experimental and theoretical approaches 15 p2293 N84-24764
Unsteady Flow in Turbomachines, volume 1
[VKI-LS-1984-02-VOL-1] 16 p2488 N84-25960
Unsteady flow in turbomachinery: An overview 16 p2488 N84-25961
Introduction to unsteady flow in turbomachines 16 p2489 N84-25962
Unsteady Flow in Turbomachines, volume 2
[VKI-LS-1984-02-VOL-2] 16 p2489 N84-25965
Numerical aspects of unsteady flow calculations 16 p2489 N84-25968
Turbulent flow of aerosol in rotating channels of turbomachines 17 p2649 N84-26839
Detailed flow measurements in casing boundary layer of 429-meter-per-second-tip-speed two-stage fan
[NASA-TP-2052] 19 p2966 N84-28795
Analysis of SSME HPOTP rotordynamics subsynchronous whirl
[NASA-CR-171094] 19 p2983 N84-28900
Secondary flow theory in straight and annular cascades 19 p3022 N84-29163
Three-dimensional rotational inviscid flow calculation — turbomachines 19 p3022 N84-29166
Annulus endwall boundary layer theory — turbomachinery 19 p3023 N84-29167
Advanced Gas Turbine (AGT)
[NASA-CR-174694] 19 p3117 N84-29805
A turbomechanical thrust vector control for advanced intercontinental ballistic missiles 20 p3143 N84-29953
Blade endwall flows in an axial flow compressor stage 21 p3343 N84-31209
Computational fluid mechanics utilizing the variational principle of modeling damping seals
[NASA-CR-171114] 21 p3398 N84-31553
Critical speed of centrifugal pumps 21 p3418 N84-31677
Nozzle performance calibration and turbomachinery operational analysis of Turbo-Powered Simulators (TPS) for the NASA-Langley EET propulsion airframe integration investigation
[NASA-CR-165949] 23 p3695 N84-33416
Long Term Materials Test Program
[DE84-014791] 23 p3719 N84-33579
A comparison of experimental and theoretical results for leakage, pressure distribution, and rotordynamic coefficients for annular gas seals
[NASA-CR-174000] 24 p3910 N84-34765

TURBOPAUSE
Turbulent diffusion, dissipation, and winds from calibrated photographs of artificial clouds
[AD-A143231] 22 p3623 N84-32956

TURBOPROP AIRCRAFT
NT C-130 AIRCRAFT
NT OV-1 AIRCRAFT
Flight measurements of hinged-plate wing-spoiler hinge moments — dhc-6 Twin Otter series 100 aircraft
[NASA-TM-84343] 01 p0003 N84-10021
A possible explanation for the present difference between linear noise theory and experimental data for supersonic helical tip speed propellers
[NASA-TM-83467] 05 p0742 N84-14874
Investigation of fuselage acoustic treatment for a twin-engine turboprop aircraft in flight and laboratory tests
[NASA-TM-85722] 07 p1069 N84-16947
An analytical method to predict efficiency of aircraft gearboxes
[NASA-TM-83716] 16 p2433 N84-25606
Renovation of the Helice
[SNIAS-832-111-109] 16 p2448 N84-25703
National Aeronautics and Space Administration 17 p2772 N84-27604

McCauley Aviation, Inc. Mitsubishi MU-2B, N72B near Jeffersonville, Georgia, March 24, 1983 aircraft accident report
[PB84-910401] 18 p2789 N84-27702
Experimental modal analysis of a partial full-scale fuselage of turboprop aircraft — vibration modes
18 p2794 N84-27732
Active attenuation of propeller blade passage noise
[NASA-CR-172386] 20 p3290 N84-30686
Analytical investigation of synchrophasing as a means of reducing aircraft interior noise
[NASA-CR-3823] 21 p3491 N84-32123
Summary of recent NASA propeller research
[NASA-TM-83733] 22 p3529 N84-32344
TURBOPROP ENGINES
An-32 transportation aircraft, USSR
[AD-A131013] 01 p0008 N84-10050
Aeroelastic design considerations for turboprop powerplant installations 02 p0171 N84-11123
Fuel economy in aviation
[NASA-SP-462] 06 p0786 N84-15144
Turboprop engine design concepts
[PNR-90181] 13 p1933 N84-22576
Analytical fuel property effects: Small combustors
14 p2108 N84-23639
Comparison of a propfan/turbofan engine by thermodynamic cycle calculation
[ESA-TT-820] 16 p2450 N84-25715
Fuel savings potential of the NASA Advanced Turboprop Program
[NASA-TM-83736] 20 p3130 N84-29878
TURBOPUMPS
U TURBINE PUMPS
TURBOROTORS
U TURBINE WHEELS
TURBOSHAFTS
Metallurgical investigation of a cracked low-pressure stem-turbine shaft from an electric utility
[DE83-902304] 01 p0045 N84-10292
A real-time, portable, microcomputer-based jet engine simulator
[NASA-TM-83550] 07 p1052 N84-16812
Real-time hybrid computer simulation of a small turboshaft engine and control system
[NASA-TM-83579] 12 p1771 N84-21548
Rotorcraft contingency power study
[NASA-CR-174675] 15 p2261 N84-24580
Status of understanding for bearing materials
15 p2342 N84-25060
Dual clearance squeeze film damper for high load conditions
[NASA-TM-83619] 15 p2343 N84-25064
Testing of turboshaft engines
16 p2453 N84-25729
Response of a small-turboshaft-engine compression system to inlet temperature distortion
[NASA-TM-83765] 23 p3694 N84-33414
TURBULENCE
NT ATMOSPHERIC TURBULENCE
NT CLEAR AIR TURBULENCE
NT GUSTS
NT HOMOGENEOUS TURBULENCE
NT ISOTROPIC TURBULENCE
NT LOW LEVEL TURBULENCE
NT LOW TURBULENCE
NT MAGNETOHYDRODYNAMIC TURBULENCE
NT PLASMA TURBULENCE
Status of wind-turbine wakes research in the federal wind energy program
[DE83-013828] 01 p0005 N84-10033
Flow-visualization study of the MOD-2 wind-turbine wake
[DE83-014391] 01 p0080 N84-10523
Impact of clumps on plasma stability and the nature of turbulence in a saturated state
[DE83-012927] 01 p0149 N84-10980
The initial design of active control systems for a flexible aircraft 02 p0171 N84-11125
Acoustic streaming as a mechanism of the Ranque-Hilsch effect 03 p0319 N84-12068
Theoretical modelling of three-dimensional vortex flows in aerodynamics 03 p0324 N84-12116
Executive summary, aerothermal modeling program, phase 1
[NASA-CR-174602] 03 p0348 N84-12263
Solar cycle variations in the interplanetary magnetic field 03 p0469 N84-13091
Recent progress at NBS in fire growth modeling
04 p0513 N84-13372
A vertical wind angle standard deviation calculation method for the unstable surface boundary layer
[AD-A132362] 04 p0567 N84-13739
Frequency-shaped estimation and robust controller design for aircraft flight control in wind disturbances
05 p0632 N84-14154
Fundamental combustion and diagnostics research at Sandia
[DE84-001787] 05 p0651 N84-14260
The local wavenumber spectrum and its applications in turbulence and noise 05 p0672 N84-14417
Higher-order derivative correlations and the alignment of small-scale structures in isotropic numerical turbulence
[NASA-TM-84407] 05 p0679 N84-14484
Buckling flow and transition to turbulence in axisymmetric plumes 05 p0682 N84-14486
Some comments on the hazards associated with manoeuvring flight in severe turbulence at high speed and low altitude 06 p0776 N84-15089
A study of the return to isotropy of homogeneous turbulence 06 p0780 N84-15110
Bifurcations in nonlinear problems of hydrodynamic instability of plane parallel shear flows
06 p0831 N84-15411
Studies in unsteady penetrative thermal convection
06 p0833 N84-15422
Whistler mode turbulence generated by electron beams in Earth's bow shock
[NASA-CR-173143] 07 p1034 N84-16707
Time-varying speckle phenomena in astronomical imaging and in laser scattering
08 p1242 N84-18118
Turbulence and mass motion in galactic molecular clouds 08 p1244 N84-18129
Reconfigurable multivariable control law for commercial airplane using a direct digital output feedback design
[NASA-TM-85759] 09 p1257 N84-18206
The cumulative exceedance distribution for accelerations due to turbulence encountered by a CT/4A air trainer
[AD-A135640] 09 p1258 N84-18211
Turbulence measurements in plane jets and plumes in crossflow 10 p1498 N84-19783
Turbulent exchange of carbon dioxide, water vapor, heat and momentum over crop surfaces
10 p1538 N84-20079
Navier-Stokes simulation of homogeneous turbulence on the CYBER 205 10 p1560 N84-20224
Investigations of flowfields found in typical combustor geometries 11 p1611 N84-20544
Free stream turbulence and density ratio effects on the interaction region of a jet in a cross flow
11 p1611 N84-20546
Turbulence characteristics of an axisymmetric reacting flow 11 p1611 N84-20548
Joint agency turbulence experiment: Environmental research paper
[AD-A137167] 11 p1687 N84-21005
Remote sensing of winds and turbulence above complex terrain during ASCOT-1980
[DE84-004231] 11 p1688 N84-21009
Nonlinear trapped electron response for drift wave turbulence in Tokamaks
[DE84-005365] 11 p1737 N84-21335
Applications of laser scattering probes to turbulent diffusion flames
[AD-A136207] 12 p1792 N84-21685
Simultaneous multipoint measurements of density gradients and temperature in a flame
[DE84-006832] 12 p1794 N84-21697
Measurements of direct path and folded path optical scintillation using a corner cube reflector
[AD-A138485] 12 p1908 N84-22429
Numerical simulation of the tip vortex off a low-aspect-ratio wing at transonic speed
[NASA-TM-85932] 13 p1926 N84-22535
Heterogeneous diffusion flame stabilization: Constant density results 13 p1952 N84-22689
Definition, sources and lowest possible levels of wind-tunnel turbulence 14 p2096 N84-23576
An evaluation of factors affecting the flow quality in wind tunnels 14 p2096 N84-23577
Aeroacoustic noise measurements in wind tunnel
14 p2097 N84-23584
Aerodynamic forces on an airship hull in atmospheric turbulence
[UTIAS-277] 14 p2100 N84-23604
A model for reaction rates in turbulent reacting flows
[NASA-TM-85746] 14 p2110 N84-23650
Simulation of winds as seen by a rotating vertical axis wind turbine blade
[DE84-009033] 14 p2180 N84-24056
Optical imaging of a coupling region between inter-streaming plasmas
[AD-A139191] 14 p2224 N84-24348
Turbulence and 1/f noise in quantum optics
14 p2232 N84-24385
Self-pulsing, breathing and chaos in optical bistability and the laser with injected signal
14 p2232 N84-24386
Routes to optical turbulence in a dispersive ring bistable cavity containing saturable nonlinearities
14 p2234 N84-24404
Optical extinction theorem theory of optical multi-stability bifurcations and turbulence in the Fabry-Perot interferometer 14 p2239 N84-24442
Reynolds number effects on pressure loss and turbulence characteristics of four tube-bundle heat exchangers
[NASA-TM-85807] 16 p2439 N84-25645
The generation of higher levels of turbulence in the test section of the high speed cascade wind tunnel at Brunswick for simulation of turbomachinery conditions
[ESA-TT-815] 16 p2440 N84-25654
Turbulent Prandtl number distribution within the constant stress/heat-flux region of a near-wall flow
[SME-8401] 16 p2486 N84-25945
Recent developments of spectral and pseudospectral methods in fluid dynamics 16 p2492 N84-25985
Multi-length scale turbulence models
[AD-A140527] 16 p2493 N84-25997
Failure times and optimal stopping rules of generalized shock models 16 p2552 N84-26372
Particle acceleration by turbulent magnetohydro-dynamic reconnection
[NASA-TM-86121] 16 p2558 N84-26409
Large eddy interactions in curved wall boundary layers: Model and implications 17 p2666 N84-26998
Techniques for studying gravity waves and turbulence
17 p2668 N84-27115
Techniques for studying gravity waves and turbulence: Horizontal, vertical and temporal resolution needed
17 p2668 N84-27116
The MST radar technique: A tool for investigations of turbulence spectra 17 p2668 N84-27117
Existence of a persistent background of turbulence
17 p2668 N84-27118
Techniques for studying gravity waves and turbulence: Vertical wind speed power spectra from the troposphere and stratosphere obtained under light wind conditions
17 p2668 N84-27120
Self-similar regimes of nonstationary turbulent convection 17 p2696 N84-27185
Fluctuation of velocity distribution under influence of suspended particles on turbulence in bottom current
17 p2699 N84-27191
Whistler mode turbulence at Earth's bow shock: Generation via electron beams and ray path integrated amplification 17 p2726 N84-27349
Turbulent structure of stably stratified nocturnal slope flows
[AD-A140740] 17 p2734 N84-27378
An improved version of the k-W model of turbulence
[CFD/83/1] 18 p2837 N84-28011
Evaluation of aerodynamic admittance of a model bridge oscillating with vertical motion
[NMI-R-175] 18 p2851 N84-28104
The aerodynamic admittance of model bridges
[NMI-R-176] 18 p2851 N84-28105
Research status and recommendations from the Alaska workshop on gravity waves and turbulence in the middle atmosphere
[AD-A140939] 18 p2879 N84-28281
Comparison of airborne turbulence-indicating doppler radar systems with ground-based doppler radar systems
[AD-A141474] 19 p3005 N84-29043
Conceptual experiments in transition to turbulence through combined visualization and hot-wire techniques
[AD-A142193] 19 p3024 N84-29181
Analysis of airfoil transitional separation bubbles
[NASA-CR-3791] 20 p3126 N84-29854
A method for three-dimensional modeling of wind-shear environments for flight simulator applications
[NASA-TM-85969] 20 p3127 N84-29857
Vortex methods and turbulent combustion
[DE84-011874] 20 p3150 N84-30004
Flapping-torsional response of helicopter rotor blades to turbulence excitation 21 p3327 N84-31110
Density fluctuations in premixed turbulent flames
[DE84-012055] 21 p3361 N84-31322
Lidar observations and modeling of atmospheric mixed layer entrainment processes 21 p3437 N84-31807
Measurement of turbulent wind velocities using a rotating boom apparatus
[DE84-012417] 21 p3448 N84-31875
Diffusion transfer during near-sonic turbulence
21 p3486 N84-32090
Conditional velocity statistics in premixed CH-4-air and C-2H-4-air turbulent flames
[DE84-012257] 22 p3549 N84-32484
The structure of the vorticity field in turbulent channel flow. Part 1: Analysis of instantaneous fields and statistical correlations
[NASA-TM-86019] 22 p3593 N84-32753

Large HAWT (Horizontal-Axis Wind Turbine) wake measurement and analysis
[DE84-013269] 22 p3596 N84-32772
Urban scale variations of turbulence parameters and fluxes
[PB84-209113] 22 p3626 N84-32960
Turbulence characteristics of swirling flowfields 23 p3687 N84-33371
Description and prediction of transition in two-dimensional, incompressible flow 23 p3748 N84-33758
Group-kinetic scaling as a basis for modeling large scale turbulence 24 p3926 N84-34848
Doppler lidar results from the San Gorgonio Pass experiments 24 p3926 N84-34866

TURBULENCE EFFECTS
Coherence and turbulence effects on the intensity scintillations at optical frequencies 01 p0146 N84-10960
Investigation of the wall pressure, wall shear stress and velocity fields associated with a turbulent spot in a laminar boundary layer 04 p0531 N84-13488
Evaluation of turbulence induced noise in coherent anti-Stokes Raman scattering
[NASA-CR-166544] 08 p1227 N84-18015
Mass transfer during drop formation in the presence of interfacial turbulence in the liquid-liquid systems
[BLL-DOUNREAY-TR-923-(8091.9F)] 09 p1311 N84-18568
Turbulence characteristics of swirling flowfields
[NASA-CR-175392] 10 p1490 N84-19744
Report by the Chairman of the Fluid Dynamics Panel 12 p1763 N84-21499
The basic equations for a four component theory of turbulent magnetoplasmadynamics
[IPF-83-3] 12 p1911 N84-22453
Correlation between the meteorological parameters and the optical strength of atmospheric turbulence close to the ground. Part 3: Results
[BAE-BT-10771] 13 p2016 N84-23070
Turbulence effect on laminar separation on a circular cylinder 15 p2314 N84-24869
Scintillometer for measuring atmospheric turbulence
[FOA-C-30363-E1] 23 p3752 N84-33785

TURBULENT BOUNDARY LAYER
A study of transonic normal shock wave-turbulent boundary layer interactions in axisymmetric internal flow 01 p0002 N84-10015
Pressure and heating-rate distributions on a corrugated surface in a supersonic turbulent boundary layer
[NASA-TP-1024] 01 p0077 N84-10504
The influence of combustion on Reynolds stress in a strongly heated turbulent boundary layer
[DE83-015524] 02 p0220 N84-11444
Local measurements of turbulent boundary layer heat transfer on a concave surface using liquid crystals 02 p0221 N84-11451
An experimental study of the dynamics of an unsteady turbulent boundary layer 02 p0221 N84-11452
Transonic airfoil development 03 p0317 N84-12076
A theoretical and experimental investigation of a transonic projectile flow field
[AD-A131936] 03 p0320 N84-12094
Erosive particle kinematics in the turbulent combustion boundary layer contacting a solid wall
[DE83-010594] 03 p0349 N84-12272
Study of turbulent flow in a wing-fuselage type juncture 05 p0628 N84-14128
Asymptotic theory of an unseparated supersonic turbulent boundary layer at a compression corner 06 p0780 N84-15112
A model of the trailing edge separation on an airfoil
[AD-A126703] 06 p0782 N84-15125
Experimental mixed convection heat transfer from a large vertical surface in a horizontal flow 06 p0832 N84-15412
A finite difference technique for laminar and turbulent compressible boundary layers 06 p0835 N84-15433
Turbulent shear flows --- conferences
[VKI-LS-1983-03] 06 p0837 N84-15448
Large scale motion in turbulent boundary layers 06 p0837 N84-15455
Some aspects of two-dimensional compressible turbulent boundary layers 06 p0837 N84-15456
Effects of unsteadiness on turbulent boundary layers 06 p0838 N84-15457
Three-dimensional turbulent boundary layers 06 p0838 N84-15459
Three-dimensional turbulent boundary layers in turbomachines 06 p0838 N84-15460
Three-dimensional, time-dependent, compressible, turbulent, integral boundary-layer equations in general curvilinear coordinates and their numerical solution
[AD-A133259] 06 p0844 N84-15504
Cavitation inception observations on axisymmetric headforms with turbulence stimulators
[AD-A133517] 06 p0844 N84-15506
Some notes on 3-dimensional turbulent boundary layer data and turbulence modeling
[NLR-MP-82007-U] 06 p0845 N84-15513
Instability and transition in the boundary layer 06 p0846 N84-15516
Interaction of a turbulent boundary layer with a normal shock wave followed by an adverse pressure gradient
[ARL-MECH-ENG-REPT-161] 07 p1000 N84-16487
Hot-wire measurements of velocity and temperature fluctuations in a heated turbulent boundary layer
[AD-A135212] 08 p1158 N84-17536
Three-dimensional turbulent boundary layer on a body of revolution at incidence
[AD-A135454] 08 p1158 N84-17539
Doppler lidar signal and turbulence study
[NASA-CR-170976] 08 p1163 N84-17574
A determination of the constants for a second-order closure turbulence model from geophysical data
[AD-A134826] 08 p1195 N84-17795
The effects of cylindrical surface modifications on turbulent boundary layers
[AD-A136296] 09 p1314 N84-18585
An analytical study of the effects of surface roughness on a compressible turbulent boundary layer
[AD-A136911] 10 p1492 N84-19756
A study of annular diffuser flow using a photon-correlating laser Doppler anemometer
[AD-A137019] 10 p1493 N84-19762
A synthesized model of the near-wall behavior in turbulent boundary layers
[AD-A137029] 10 p1493 N84-19764
An experimental study of the properties of surface pressure fluctuations in strong adverse pressure gradient turbulent boundary layers
[NASA-CR-175410] 11 p1601 N84-20488
The present calculation method of adhering layers on aircraft wings
[AD-A137585] 11 p1602 N84-20496
Unsteady turbulent boundary layers
[AD-A137853] 11 p1652 N84-20787
Development of a complete model of turbulence revisited
[AD-A138145] 12 p1816 N84-21836
Study of unsteady turbulent boundary layers
[AD-A138156] 12 p1816 N84-21837
Turbulent boundary layer thermochemical attack on coated walls
[DE84-005892] 12 p1817 N84-21843
Investigations of micro-turbulence in the bottom of the boundary layer
[AD-A138524] 12 p1861 N84-22123
The changing scene in computational fluid dynamics
[AD-A138661] 13 p1989 N84-22914
Theoretical investigation of three-dimensional shock wave-turbulent boundary layer interactions, part 2
[AD-A136722] 13 p1990 N84-22916
Aerodynamic sound generation by turbulent boundary layer flow along solid and compliant walls
[MPIS-116/1983] 13 p2040 N84-23239
Nonadiabatic model wall effects on transonic airfoil performance in a cryogenic wind tunnel 14 p2096 N84-23579
On separating turbulent boundary layers
[ARL-MECH-ENG-REPT-162] 14 p2144 N84-23851
Demonstration of boundary layer characteristics
[BU-299] 15 p2256 N84-24550
Experimental investigation of the turbulent large scale temporal flow in the wing-body junction
[AD-A139836] 15 p2257 N84-24558
The generation of higher levels of turbulence in the test section of the high speed cascade wind tunnel at Brunswick for simulation of turbomachinery conditions
[ESA-TT-815] 16 p2440 N84-25654
Scaling and modeling of three-dimensional, end-wall, turbulent boundary layers
[NASA-CR-3792] 16 p2485 N84-25941
Drag of two-dimensional small-amplitude symmetric and asymmetric wavy walls in turbulent boundary layers
[NASA-TP-2318] 16 p2486 N84-25944
A finite difference method for inverse mode calculations of a three-dimensional boundary layer
[AD-B071559] 16 p2488 N84-25956
Theoretical and experimental investigation of coherent structure in the turbulent boundary layer
[AD-A140517] 16 p2493 N84-25996
Asymptotic theory of separation flow 17 p2646 N84-26924
Three-dimensional turbulent boundary layers at bielliptical bodies in stream of compressible gas at some angle of attack 17 p2648 N84-26936
Interaction of turbulent boundary layer and upward density jump at transonic stream velocities 17 p2648 N84-26937
Turbulent boundary layer at plate with suction at various angles 17 p2648 N84-26938
Numerical simulation of shock/turbulent boundary layer interactions over 2-D compression corners 17 p2666 N84-27000
Mixing-length formulations for turbulent boundary layers over arbitrarily rough surfaces
[AD-A140560] 17 p2667 N84-27009
On the evaluation of boundary layer measurements on boattailed bodies of revolution in axisymmetric compressible subsonic flow
[DFVLR-FB-84-09] 18 p2837 N84-28010
Experimental studies of flow separation of three airfoils at low speeds
[NASA-CR-3530] 19 p2956 N84-28736
Numerical simulation of boundary-layer transition
[NASA-TM-85984] 19 p2958 N84-28746
Three-dimensional unsteady viscous flow analysis over airfoil sections
[NASA-CR-172368] 19 p3020 N84-29152
Turbulence and surface heat transfer near the stagnation point of a circular cylinder in turbulent flow
[NASA-TM-83732] 19 p3021 N84-29157
Acta mechanica sinica (Selected articles)
[AD-A142128] 19 p3024 N84-29180
Interference drag in a simulated wing-fuselage juncture
[NASA-CR-3811] 20 p3126 N84-29853
Numerical analysis of the burst in the turbulent boundary layer, based on the three-dimensional ortex model 20 p3168 N84-30116
Calculation of the statistical characteristics of surface
[NASA-TM-77462] 20 p3183 N84-30222
Generalized roughness effects on turbulent boundary layer heat transfer. A discrete element predictive approach for turbulent flow over rough surfaces
[AD-A141943] 20 p3183 N84-30227
Effect of turbulent boundary layer flow on measurement of acoustic pressure and intensity, revised
[AD-A142473] 20 p3184 N84-30229
Calculation of boundary layers of oscillating airfoils
[NASA-TM-85943] 21 p3398 N84-31554
Similarity criteria for spectra of pressure fluctuations in turbulent boundary layer at wall 21 p3480 N84-32059
Aerodynamic heating computations for projectiles. Volume 2: Swept wing calculations using the planar version of the ABRES shape change code (PLNRASCC)
[AD-A143253] 22 p3532 N84-32360
The effects of porous material on microbubble skin friction reduction
[AD-A143401] 22 p3593 N84-32756
Representation of potential flow about axisymmetric bodies with discrete singularities
[AD-A143526] 22 p3594 N84-32760
Measurement of skin friction in unsteady boundary layers using a flush-mounted hot-film gage
[PB84-197995] 22 p3596 N84-32773
Bursts and pressure fluctuations in turbulent boundary layers
[AD-A143811] 23 p3747 N84-33754
Turbulent boundary layers developing over compliant surfaces
[AD-A144268] 24 p3900 N84-34696

TURBULENT DIFFUSION
A study of coherent structures in the near-neutral marine atmospheric boundary layer 03 p0406 N84-12658
Measurements of coefficient of turbulent diffusion in middle-latitude strato- and mesosphere 11 p1670 N84-20894
Parametrization of the turbulent diffusion in the atmosphere using the turbulent energy equation(s) --- pollution transport
[GKSS-83-E-60] 14 p2174 N84-24019
Soot formation in diffusion flames 15 p2291 N84-24750
False diffusion in three-dimensional steady flow calculations
[KU-SFB-80/T/224] 17 p2689 N84-27017
Evaluating parameters of vertical exchange of ocean waters by radioisotopic methods 18 p2858 N84-28146
Phenomenology and modeling of heavy gas dispersion
[DE84-006800] 18 p2878 N84-28272
Turbulent diffusion, dissipation, and winds from calibrated photographs of artificial clouds
[AD-A143231] 22 p3623 N84-32956
Turbulent diffusion for the radial twist map
[IPPJ-685] 23 p3826 N84-34267

TURBULENT FLOW
NT CAVITATION FLOW
Generalized algebraic relation for predicting developing curved-channel flow with a k-epsilon model of turbulence
[DE83-009946] 01 p0080 N84-10520

Prediction of erosive wear by solid particles in a turbulent curved-channel flow
[DE83-012896] 01 p0081 N84-10524

Comparison of calculated results from 2 analytical models with measured data from a heat-exchanger flow test
[DE83-013071] 01 p0082 N84-10534

Nonperiodic fluctuations induced by stationary surface waviness on a semi-infinite plate
[AD-A130820] 02 p0174 N84-11146

Effect of periodic, tapered enlargements and contractions on turbulent heat transfer and fluid flow in a circular duct 02 p0217 N84-11422

High Reynolds number cylinder flow studies
[AD-A131116] 02 p0218 N84-11429

Simultaneous heat and mass transfer in absorption of gases in turbulent liquid films
[DE83-016394] 02 p0220 N84-11445

A study of the convective atmospheric boundary and surface layers 02 p0246 N84-11609

Chemically reacting turbulent shear layers
[AD-A131553] 02 p0295 N84-11931

On the structure of the turbulent vortex 03 p0321 N84-12102

Simulation of turbulent flows with a point vortex method 03 p0324 N84-12119

Vortex stability and breakdown 03 p0325 N84-12122

Experimentation with turbulent flows experiencing the effects of an adverse pressure gradient 03 p0325 N84-12127

Waves on vortex cores and their relation to vortex breakdown 03 p0326 N84-12128

Advanced diagnostics and instrumentation for chemically reactive flow systems
[AD-A131814] 03 p0348 N84-12251

Theoretical and experimental investigation of turbulent premixed flames 03 p0370 N84-12409

Computation of turbulent flows over backward-facing step
[NASA-TM-85851] 03 p0371 N84-12414

Turbulence modelling: A state-of-the-art review
[CFD/83/3] 03 p0374 N84-12435

A revised two-equation model of turbulence
[CFD/83/5] 03 p0374 N84-12436

Turbulent tube-flow heat transfer coefficients in the presence of flow imbalance in the tubes of a parallel array 03 p0374 N84-12437

Numerical calculations of turbulent recirculating heat transfer beyond two-dimensional back-steps and sudden pipe expansions 03 p0374 N84-12439

The SSME seal test program: Leakage tests for helically-grooved seals
[NASA-CR-170921] 03 p0383 N84-12495

XTRAN2L: A program for solving the general-frequency unsteady transonic small disturbance equation
[NASA-TM-85723] 04 p0479 N84-13150

A theoretical and experimental study of turbulent particle-laden jets
[NASA-CR-168293] 04 p0485 N84-13187

Numerical modeling of turbulent flow in a channel
[NASA-CR-168278] 04 p0485 N84-13189

PDF: A computer program for calculation of turbulent combustion utilizing a Probabilty Density Function (PDF) approach
[DE84-000999] 04 p0494 N84-13240

Experiments on mixing and combustion with low heat release in a turbulent shear flow 04 p0531 N84-13489

A fully vectorized numerical solution of the incompressible Navier-Stokes equations
[NASA-CR-174496] 04 p0531 N84-13491

New relationships for turbulent plumes
[NAL-TR-783] 04 p0532 N84-13495

Environmental impact research program. Two-equation, depth-integrated turbulence closure for modeling geometry-dominated flows
[AD-A132347] 04 p0533 N84-13505

Turbulent wall pressure simulation
[AD-A132297] 04 p0533 N84-13507

Computation of turbulent reacting flows: Comparison of various mixing/chemistry interaction models
[DE84-000998] 04 p0534 N84-13514

Computations of turbulent recirculating flows with fully coupled solution of momentum and continuity equations
[DE84-001529] 04 p0535 N84-13518

Finite-element analysis of incompressible laminar and turbulent flow with heat transfer
[DE84-000042] 04 p0536 N84-13523

Study of turbulent flow in a wing-fuselage type juncture 05 p0628 N84-14128

Chemical reactions in turbulent mixing flows, revision
[AD-A133874] 05 p0647 N84-14258

PDF: A computer program for calculation of turbulent combustion utilizing a Probability Density Function (PDF) approach
[DE84-002525] 05 p0651 N84-14278

On the relationship between transitional and fully turbulent shear flow
[AD-A133606] 05 p0660 N84-14469

Turbulent flow in passage around a 180 deg bend; an experimental and numerical study
[AD-A132845] 05 p0661 N84-14475

A finite element analysis of incompressible laminar and turbulent flow with heat transfer past irregular surfaces 05 p0692 N84-14485

The effects of external and self excitations on axisymmetric jet turbulence and noise 05 p0743 N84-14878

Numerical study of electromagnetic fluid turbulence
[DE84-002388] 05 p0750 N84-14923

Generation of sound in turbulent shear flows 06 p0768 N84-15031

Numerical simulation of separated flows 06 p0832 N84-15413

An experimental investigation of the structure of a turbulent reattaching flow behind a backward-facing step 06 p0832 N84-15415

The structure of turbulent entraining flow in an annulus with a rotating screen 06 p0832 N84-15416

Design, construction, and use of a high-resolution, two-component LDA 06 p0833 N84-15419

Turbulent shear flows — conference
[VKI-LS-1983-03] 06 p0837 N84-15448

Introduction to turbulent shear flows 06 p0837 N84-15449

Experimental techniques for free edges of turbulent flows 06 p0837 N84-15450

Asymmetric turbulent flows 06 p0837 N84-15451

The core region of channel flows 06 p0837 N84-15452

Eddy detection within turbulent shear flows 06 p0837 N84-15453

The bursting phenomenon in bounded shear flows 06 p0837 N84-15454

Large scale motion in turbulent boundary layers 06 p0837 N84-15455

Effects of unsteadiness on turbulent boundary layers 06 p0838 N84-15457

Computation of turbulent gas-particle suspension flows in channels 06 p0839 N84-15470

Some notes on 3-dimensional turbulent boundary layer data and turbulence modeling
[NLR-MP-82007-U] 06 p0845 N84-15513

Improved turbulence models based on large eddy simulation of homogeneous, incompressible turbulent flows 06 p0845 N84-15514

Scaling wind characteristics for designing small and large wind turbines
[DE83-014501] 06 p0880 N84-15728

Progress in computation of viscous inviscid interaction 07 p0954 N84-16189

Computing the three dimensional boundary layer in a compressor 07 p0956 N84-16200

Transition to turbulence in plane channel flow
[NASA-CR-173149] 07 p1000 N84-16486

Finite element analysis of incompressible turbulent backstep flow with heat transfer
[DE84-003101] 07 p1003 N84-16502

Experimental investigation of the turbulent flow in smooth and longitudinal grooved tubes
[MPIS-3/1983] 07 p1004 N84-16510

Experimental investigation of turbulent flow in the inlet region of an eccentric annulus
[KFK-3573] 07 p1004 N84-16511

Turbulent flow downstream of a backward-facing step
[CFD/83/2] 07 p1005 N84-16515

Chaos and order — stochastic processes in dynamical systems
[MC-TW-243/83] 07 p1067 N84-16930

Numerical study of a separating and reattaching flow by using Reynolds-stress tubulence closure
[NASA-CR-166547] 08 p1097 N84-17133

Finite analytic numerical solutions of laminar and turbulent convective heat transfer for pipe flow past a cavity 08 p1154 N84-17515

Photodiagnostics of turbulent flows using laser-induced fluorescence
[NASA-CR-166548] 08 p1155 N84-17519

Improved turbulence models based on large eddy simulation of homogeneous, incompressible turbulent flows
[NASA-CR-166541] 08 p1156 N84-17528

Laser diagnostic development and measurement and modeling of turbulent flowfields of jets and wakes. Part 1: Two-dimensional laser Doppler anemometer studies of isothermal flowfield in a ducted centerbody combustor
[AD-A134691] 08 p1158 N84-17542

Laser diagnostic development and measurement and modeling of turbulent flowfields of jets and wakes. Part 2: Numerical predictions of isothermal flowfields in a ducted centerbody combustor
[AD-A134692] 08 p1159 N84-17543

Laser diagnostic development and measurement and modeling of turbulent flowfields of jets and wakes. Part 3: The development of a 2-channel CW Time-Resolved Laser Raman Spectroscopy (TILaRS) system for measurements in gas flowfields
[AD-A134693] 08 p1159 N84-17544

Understanding transition to turbulence in shear layers
[AD-A134796] 08 p1159 N84-17548

Turbulence measurements in plane jets and plumes in crossflow
[PB84-105303] 08 p1160 N84-17554

Remarks on the layout of the subsonic free jet wind tunnels
[NASA-TM-77326] 09 p1258 N84-18214

Acoustic signature from flames as a combustion diagnostic tool
[AD-A136447] 09 p1278 N84-18347

Ignition and unsteady flame propagation in turbulent reactive flows
[AD-A136450] 09 p1279 N84-18349

Experimental study of flow reattachment in a single-sided sudden expansion
[NASA-CR-3785] 09 p1312 N84-18571

Developing flow in S-shaped ducts. 2: Circular cross-section duct
[NASA-CR-3759] 09 p1312 N84-18572

Transition to turbulence in plane channel flows
[NASA-CR-172298] 09 p1313 N84-18577

A calculation of the parabolized Navier-Stokes equations for turbulent axisymmetric flows using streamline coordinates and k-epsilon turbulence model
[AD-A136240] 09 p1313 N84-18582

Analysis of sound produced by wind turbines in turbulent flow
[FFA-TN-1983-44] 09 p1387 N84-19057

Turbulence generated pressure fluctuations in a class of interior flows 10 p1423 N84-19306

Evaluation of a candidate model complex flow combustor using instantaneous two-color laser anemometry 10 p1458 N84-19521

Confined turbulent swirling recirculating flow predictions
[NASA-CR-175397] 10 p1491 N84-19745

Swirl, expansion ratio and blockage effects on confined turbulent flow
[NASA-CR-175391] 10 p1491 N84-19746

Analytical prediction of turbulent heat transfer parameters
[AD-A137515] 10 p1491 N84-19752

Effects of mean flow on the dynamic characteristics of fluid transmission lines
[AD-A136959] 10 p1492 N84-19759

Predicting the onset of turbulence in the presence of a pressure gradient
[AD-A136960] 10 p1493 N84-19760

Analytical studies of turbulent flow fields
[AD-A137008] 10 p1493 N84-19761

Three dimensional/boundary layer interaction: Laminar and turbulent behaviour
[AD-A137060] 10 p1493 N84-19765

Transient gas flow along single or bundled electrical cables surrounded by a permeable medium
[DE84-004791] 10 p1494 N84-19772

Radiative heat transfer, Favre-averaging and turbulence closure models for combustion applications
[VTH-LR-383] 10 p1496 N84-19780

Navier-Stokes simulation of homogeneous turbulence on the CYBER 205 10 p1560 N84-20224

Newton like: Minimal residual methods applied to transonic flow calculations
[NASA-CR-172305] 10 p1566 N84-20275

Reconnections in Spheromak formation and sustainment
[DE84-004157] 10 p1586 N84-20398

Computer program for prediction of the deposition of material released from fixed and rotary wing aircraft
[NASA-CR-3780] 11 p1600 N84-20482

Numerical studies of the deposition of material released from fixed and rotary wing aircraft 11 p1602 N84-20491

The present calculation method of adhering layers on aircraft wings
[AD-A137585] 11 p1602 N84-20496

An investigation of turbulence mechanisms in V/STOL upwash flow fields
[AD-A137775] 11 p1603 N84-20498

Turbulent swirling combustion 11 p1609 N84-20535

Numerical modeling of turbulent flow 11 p1610 N84-20538

Grid flexibility and patching techniques
11 p1610 N84-20540
The influence of large-scale motion on turbulent transport for confined coaxial jets
11 p1610 N84-20542
Direct numerical simulation of reacting flows
11 p1611 N84-20549
Random vortex method for combusting flows
11 p1613 N84-20558
Numerical simulation of flame propagation in a closed vessel
[DE84-004959] 11 p1629 N84-20663
Experimental study of turbulent swirling flows
11 p1650 N84-20776
A study of the coherent structures in the viscous wall region of a turbulent flow
[AD-A137875] 11 p1652 N84-20788
Turbulent flow over small amplitude solid waves
[AD-A137876] 11 p1653 N84-20789
Effect of solid particles on the turbulent flow of a round gaseous jet: A mathematical and experimental study
[DE84-005830] 11 p1653 N84-20794
Numerical simulations of compliant material response to turbulent flow
[DE84-004365] 11 p1654 N84-20800
Numerical study of heat transfer in turbulent shear flow
[DE84-005106] 11 p1655 N84-20802
Crossed hot-wire data acquisition and reduction system
[NASA-TM-85871] 11 p1656 N84-20807
Recent work and thoughts on eddy-mean flow interaction
[AD-P002651] 11 p1689 N84-21016
Extension to an analysis of turbulent swirling compressible flow for application to axisymmetric small gas turbine ducts
[NASA-CR-165597] 11 p1753 N84-21445
Application of laser velocimetry to unsteady flows in large scale high speed tunnels
[NASA-CR-166575] 12 p1765 N84-21511
Review and status of heat-transfer technology for internal passages of air-cooled turbine blades
[NASA-TP-2232] 12 p1814 N84-21828
Laser Doppler velocimetry measurements of mean velocity and turbulent stress tensor components in a free isothermal swirling jet
[UTIAS-281] 12 p1815 N84-21830
Turbulence structures associated with the bursting event
[NASA-TM-85944] 12 p1815 N84-21831
Effect of a rotor wake on heat transfer from a circular cylinder
[NASA-TM-83613] 12 p1815 N84-21832
A compressible Navier-Stokes code for turbulent flow modeling
[NASA-TM-85890] 12 p1815 N84-21833
Turbulent flow annular pump seals: A literature review
12 p1822 N84-21875
Simulations of the stratocumulus-topped boundary layer with a third-order closure model
12 p1857 N84-22096
Time dependent land and vegetation canopy temperatures 12 p1858 N84-22104
Broadband rotor noise analyses
[NASA-CR-3797] 12 p1899 N84-22365
Theory of anomalous tearing mode growth and the major Tokamak disruption
[DE84-005383] 12 p1911 N84-22448
Preliminary investigation of a two-zone swirl flow combustor
[NASA-TM-83637] 13 p1932 N84-22565
Exhaust plume induced fluctuations in the index of refraction at optical wavelengths
13 p1941 N84-22624
On the oscillatory flowfield in solid rocket motors
13 p1945 N84-22645
Turbulence modeling
[NASA-TM-85889] 13 p1989 N84-22913
Transient three-dimensional predictions of turbulent flows in cylindrical and cartesian coordinate systems
13 p1991 N84-22927
Turbulent diffuser flow studies related to the design of the ETW diffuser 14 p2095 N84-23572
New methods of excitation, acquisition and data reduction about unsteady wind tunnel tests
14 p2099 N84-23599
Physical aspects of computing the flow of a viscous fluid
[NASA-TM-85893] 14 p2100 N84-23605
A model for reaction rates in turbulent reacting flows
[NASA-TM-85746] 14 p2110 N84-23650
Monte Carlo calculations of two-dimensional combustor flows
[AD-A139569] 14 p2123 N84-23724
Boundary layer trip performance test on a 7-deg cone model at mach number 8
[AD-A139408] 14 p2146 N84-23860
Theoretical studies of solid particles in laminar and turbulent flows
[KU-SFB-80/T/223] 14 p2146 N84-23863
A spatial model of wind shear and turbulence for flight simulation
[NASA-TP-2313] 14 p2178 N84-24044
Experimental investigation of the turbulent large scale temporal flow in the wing-body junction
[AD-A139836] 15 p2257 N84-24558
Optical measurements of soot size and number density in a complex flow, swirl-stabilized combustor
15 p2292 N84-24753
Prediction of turbulent reactive flow
15 p2293 N84-24762
A tensor constitutive equation for turbulent flow
15 p2314 N84-24888
A review of internal combustion engine combustion chamber process studies at NASA Lewis Research Center
[NASA-TM-83666] 15 p2331 N84-24999
Computational modeling of jet induced mixing of cryogenic propellants in low-G
[NASA-TM-83703] 15 p2331 N84-25000
The boundary layer on compressor cascade blades
[NASA-CR-173514] 15 p2332 N84-25001
Fluid forces on a rigid cylinder in turbulent crossflow
[DE84-006364] 15 p2333 N84-25012
Optical measurements of fluctuating temperatures in a supersonic turbulent flow using one- and two-photon, laser-induced fluorescence
[NASA-TM-85949] 15 p2336 N84-25020
Operational performance characteristics of a multiply-shrouded, angled-diffuser stack gas eductor in turbulent cross-flow
[AD-A139953] 15 p2343 N84-25068
Line formation in turbulent media
15 p2421 N84-25542
A model atmosphere analysis of the Am star 68 Tau
15 p2422 N84-25548
Drag of two-dimensional small-amplitude symmetric and asymmetric wavy walls in turbulent boundary layers
[NASA-TP-2318] 16 p2486 N84-25944
Numerical prediction of multireactive turbulent flows by a Eulerian-Lagrangian method
[ONERA-NT-1983-9] 16 p2488 N84-25959
Solution of the compressible Navier-Stokes equations: Applications to complex turbulent flows
16 p2492 N84-25991
Theoretical and experimental investigation of coherent structure in the turbulent boundary layer
[AD-A140517] 16 p2493 N84-25996
Multi-length scale turbulence models
[AD-A140527] 16 p2493 N84-25997
Computer program for studying turbulent convection in buildings 16 p2517 N84-26155
Control of separated flowfields using forced unsteadiness 17 p2598 N84-26654
Turbulent flow of aerosol in rotating channels of turbomachines 17 p2649 N84-26939
Development of a 2-dimensional turbulent jet under natural and excited conditions 17 p2666 N84-26997
Large eddy interactions in curved wall boundary layers: Model and implications 17 p2666 N84-26998
Solution of 3-dimensional time-dependent viscous flows. Part 3: Application to turbulent and unsteady flows
[NASA-CR-166565-PT-3] 17 p2667 N84-27003
Mixing-length formulations for turbulent boundary layers over arbitrarily rough surfaces
[AD-A140560] 17 p2667 N84-27009
Studies of heat transfer in complex internal flows
[AD-A140804] 17 p2668 N84-27014
A numerical model for studying some coastal circulation
[INPE-2904-RPE/444] 17 p2737 N84-27386
An improved version of the k-W model of turbulence
[CFD/83/1] 18 p2837 N84-28011
The aerodynamic admittance of model bridges
[NMI-R-176] 18 p2851 N84-28105
Injection of drag reducing additives into turbulent water flows: Results from factorial design
[AD-A141675] 19 p3024 N84-29177
Acta mechanica sinica (Selected articles)
[AD-A142128] 19 p3024 N84-29180
Conceptual experiments in transition to turbulence through combined visualization and hot-wire techniques
[AD-A142193] 19 p3024 N84-29181
La Recherche Aerospatiale, Bimonthly Bulletin, no. 1984-1, 218/ January - February
[ESA-TT-858] 20 p3125 N84-29850
Generalized roughness effects on turbulent boundary layer heat transfer. A discrete element predictive approach for turbulent flow over rough surfaces
[AD-A141943] 20 p3183 N84-30227
An integral prediction method for three-dimensional flow separation
[AD-A142551] 20 p3184 N84-30231
Optimization of a numerical method to calculate elliptic flows
[DFVLR-FB-84-16] 20 p3187 N84-30252
Progress in the development of an intermittency model of turbulence
[CFD/83/7] 20 p3188 N84-30255
Prediction of the temperature characteristics in intermittent, free turbulent shear layers
[CFD/84/1] 20 p3188 N84-30256
Theoretical and experimental investigations of asymmetric turbulent supersonic free shear layers
21 p3323 N84-31088
Unsteady transonic aerodynamic and aeroelastic calculations about airfoils and wings
[NASA-TM-85986] 21 p3324 N84-31092
Acoustic excitation: A promising new means of controlling shear layers
[NASA-TM-83772] 21 p3325 N84-31096
Computational Methods: 1984 JPM Specialist Session
[AD-A142923] 21 p3354 N84-31276
Stationary state computational fluid dynamics for aero-propulsion devices 21 p3354 N84-31278
Models for calculating reaction rates in turbulent, reacting flows 21 p3355 N84-31281
Transition from laminar to turbulent flow under action of acoustic vibrations 21 p3480 N84-32056
Coefficient of surface friction with turbulent flow in boundary layer 21 p3481 N84-32064
Flow structures and their evolution in turbulent shear layer 21 p3486 N84-32091
Three-dimensional, time-dependent, compressible, turbulent, integral boundary layer equations in general curvilinear coordinates and their numerical solutions
22 p3529 N84-32346
Aerodynamic heating computations for projectiles. Volume 2: Swept wing calculations using the planar version of the ABRES shape change code (PLNRASCC)
[AD-A143253] 22 p3532 N84-32360
A theoretical and experimental study of turbulent evaporating sprays
[NASA-CR-174760] 22 p3536 N84-32390
Developing turbulent flow in strongly curved passages of square and circular cross-section
[AD-A143279] 22 p3593 N84-32755
Developing turbulent flow in a 180(0) curved pipe and its downstream tangent
[DE84-013391] 22 p3595 N84-32767
Experimental investigation of shock-cell noise reduction for single-stream nozzles in simulated flight, comprehensive data report. Volume 2: Laser velocimeter data
[NASA-CR-168234-VOL-2] 22 p3652 N84-33149
Effect of Weissenberg number on turbulent heat transfer and friction factor of viscoelastic fluids
23 p3745 N84-33743
A discrete element prediction approach for turbulent flow over rough surfaces 23 p3746 N84-33744
The CMC/3DPNS computer program for prediction of three-dimension, subsonic, turbulent aerodynamic juncture region flow. Volume 2: Users' manual
[NASA-CR-165997] 23 p3746 N84-33749
Control of jet flowfield dynamics
[AD-A143631] 23 p3746 N84-33750
Bursts and pressure fluctuations in turbulent boundary layers
[AD-A143811] 23 p3747 N84-33754
Nonlinear effects in hydrodynamic stability
23 p3748 N84-33762
Three-dimensional laser Doppler anemometer measurements of a jet in a crossflow
[NASA-TM-85997] 24 p3900 N84-34695
The effects of curvature on turbulent mixing layers
[AD-A144250] 24 p3900 N84-34697
A study of pollutant dispersal in a 2-dimensional field including gravity effects
[AD-A144295] 24 p3900 N84-34699

TURBULENT HEAT TRANSFER

Modeled heating and surface erosion comparing motile (gas borne) and stationary (surface coating inert particle additives
[DE83-000597] 01 p0080 N84-10521
Turbulence modeling in liquid metal free convection — in reactor cooling systems 06 p0842 N84-15490
Turbulent heating in solar cosmic ray theory
[NASA-TM-85074] 06 p0940 N84-16108
Heat transfer for turbulent flow of helium or hydrogen in a tube at high temperatures: Evaluation with the method of Petukhov
[KFK-3593] 07 p1005 N84-16518
Analytical prediction of turbulent heat transfer parameters
[AD-A137515] 10 p1491 N84-19752

Heat transfer in serpentine passages with turbulence promoters
[NASA-TM-83614] 13 p1989 N84-22911
Coherent structure modeling of viscous sublayer turbulence for incompressible flow with heat transfer and for compressible flow
[AD-A140478] 16 p2493 N84-25994

TURBULENT JETS
Experimental and theoretical study of combustion jet ignition
[NASA-CR-168139] 01 p0009 N84-10054
Investigation of axisymmetric confined turbulent jet mixing in the near region with adverse pressure gradient 04 p0478 N84-13148
Measurement of velocity distributions in turbulent jets using a laser Doppler velocimeter
[AD-A132316] 04 p0533 N84-13508
Buckling of turbulent jets 05 p0683 N84-14488
Fully-coupled analysis of jet mixing problems. Part 1. Shock-capturing model, SCIPVIS
[NASA-CR-3761] 06 p0834 N84-15425
Prediction of an apparent flame length in a co-axial jet diffusion flame combustor
[AD-A135088] 08 p1123 N84-17303
Experimental investigation of the turbulent axisymmetric jet 08 p1155 N84-17518
Mass and momentum turbulent transport experiments with confined swirling coaxial jets
[NASA-CR-168252] 08 p1156 N84-17530
Time dependent, compressible simulations of shear flows: Tests of outflow boundary conditions
[AD-A136410] 09 p1314 N84-18587
Effects of multiple cylinders on the formation of Von Karman vortex streets
[AD-A136930] 10 p1492 N84-19758
Effect of liquid droplets on turbulence structure in a round gaseous jet 11 p1609 N84-20533
Characteristics of inhomogeneous jets in confined swirling air flows 11 p1612 N84-20550
Dynamics of freely ascending convective jets initiated by active admixture 11 p1669 N84-20893
Calculations of intermittency in self-preserving, free turbulent jets and wakes
[CFD/83/10] 15 p2332 N84-25006
Multi-length scale turbulence models
[AD-A140527] 16 p2493 N84-25997

TURBULENT MIXING
Turbulence modelling: A state-of-the-art review
[CFD/83/3] 03 p0374 N84-12435
Random eddies in wakes and mixing layers — wind tunnel tests 03 p0429 N84-12813
Investigation of axisymmetric confined turbulent jet mixing in the near region with adverse pressure gradient 04 p0478 N84-13148
The stratified turbulent mixing layer: Velocity and concentration measurements compared with a discrete vortex model 05 p0626 N84-14117
Further development of a method for computing three-dimensional subsonic viscous flows in turbofan lobe mixers
[NASA-CR-168304] 05 p0679 N84-14462
Flow visualization and LDV measurement of turbulent mixing layers
[REPT-606] 06 p0834 N84-15424
Fully-coupled analysis of jet mixing problems. Part 1. Shock-capturing model, SCIPVIS
[NASA-CR-3761] 06 p0834 N84-15425
Flow trajectories, mixing and entropy fluxes in a turbine cascade 07 p0955 N84-16193
Turbulent transport models for scramjet flowfields
[NASA-CR-172264] 10 p1491 N84-19747
Interactive computer modeling of combustion chemistry and coalescence-dispersion modeling of turbulent combustion 11 p1612 N84-20553
Time dependent land and vegetation canopy temperatures 12 p1858 N84-22104
Mach number and density effects in the mixing of supersonic jets 13 p1942 N84-22628
A study of the fundamental problems of combustion in the combustion chambers of turbojets using a tubular reactor 15 p2293 N84-24759
La Recherche Aerospatiale, Bimonthly Bulletin, number 1983-S, 216/September - October
[ESA-TT-836] 15 p2402 N84-25419
Channel cooling by turbulent convective mixing
[AD-A139724] 15 p2410 N84-25466
A theoretical prediction of the acoustic pressure generated by turbulence-flame front interactions
[NASA-TM-83587] 16 p2553 N84-26383
Mixing-length formulations for turbulent boundary layers over arbitrarily rough surfaces
[AD-A140560] 17 p2667 N84-27009
Development of upper mixed ocean layer with increase in stability and in presence of wind 18 p2857 N84-28143
On mixed-layer models for the atmospheric boundary layer, appendix G 18 p2864 N84-28302
An experimental investigation of gas jets in confined swirling air flow
[NASA-CR-3632] 23 p3694 N84-33412
The effects of curvature on turbulent mixing layers
[AD-A144250] 24 p3900 N84-34697

TURBULENT WAKES
NT PROPELLER SLIPSTREAMS
NT SLIPSTREAMS
Acoustic streaming as a mechanism of the Ranque-Hilsch effect 03 p0319 N84-12088
Three-dimensional wake of a swept wing 06 p0838 N84-15458
Calculations of intermittency in self-preserving, free turbulent jets and wakes
[CFD/83/10] 15 p2332 N84-25006
Vortex methods and turbulent combustion
[DE84-011874] 20 p3150 N84-30004
Sound field of turbulent wake 21 p3478 N84-32048
Formation of coherent structures by acoustical effects in a turbulent wake 21 p3480 N84-32055
Turbulence characteristics of swirling flowfields 23 p3687 N84-33371
Wake studies at the flowind vertical axis wind turbine generator site
[DE84-014837] 23 p3691 N84-33392

TURING MACHINES
A mechanical proof of the turing completeness of pure LISP
[AD-A130625] 01 p0121 N84-10785
On the simulation of many storage heads by a single one
[MC-IW-226/83] 07 p1053 N84-16818
On the simulation of many storage heads by one
[MC-IW-228/83] 07 p1053 N84-16819
An N to the 1.618th power lower bound on the time to simulate one queue or two pushdown stores by one tape
[MC-IW-245/83] 13 p2030 N84-23161
The simple roots of real-time computation hierarchies (preliminary version)
[MC-IW-244/83] 13 p2035 N84-23203
On two-tape real time computation and queues
[MC-IW-246/83] 17 p2750 N84-27455
Bounded tiling, an alternative to satisfiability
[CWI-OS-R8405] 19 p3092 N84-29638

TURNAROUND (STS)
SSME modifications for on-demand launch vehicles 20 p3136 N84-29914

TURNING FLIGHT
Suboptimal missile evasion through a sensitivity analysis of proportional guidance to target evasion maneuvers
[AD-A136803] 10 p1428 N84-19338
Minimum time turns with direct sideforce
[AD-A136958] 10 p1429 N84-19342
Lecture notes on the principles and practice of airplane performance prediction. Part 2: Point-performance in steady symmetric and unsymmetric flight
[VTH-LR-385-VOL-2] 10 p1429 N84-19346

TURRET
A formulation and analysis of combat games
[NASA-TM-85927] 13 p1935 N84-22585

TVC (CONTROL)
U THRUST VECTOR CONTROL

TWILIGHT GLOW
Morning twilight observations of the zodiacal light and terrestrial airglow 16 p2526 N84-26222

TWINNING
NT MECHANICAL TWINNING

TWISTING
A study of accretion in compact sources: Disk precession and jet helicity 06 p0929 N84-16038
Combined tension-torsion of a cylindrical mixture of an elastic solid and fluid
[AD-A136351] 09 p1331 N84-18689
An analysis of rotor blade twist variables associated with different Euler sequences and pretwist treatments
[NASA-TM-84394] 17 p2606 N84-26693
Nature of formation of stopper defect in hoisting ropes
[BLL-M-35544-(5828.4)] 17 p2674 N84-27036
Tortuosity of lightning return stroke channels
[NASA-TM-86104] 18 p2883 N84-28295

TWO BODY ORBITS
U TWO BODY PROBLEM

TWO BODY PROBLEM
Splines and the Galerkin method for solving the integral equations of scattering theory
[CSIR-TWISK-267] 04 p0586 N84-13873
Research in theoretical nuclear physics
[DE84-003442] 08 p1230 N84-18038
Orbital motion of a freely coning solar sail
[AD-A136794] 10 p1435 N84-19381
Investigations of the structure and electromagnetic interactions of few body systems
[DE84-006852] 12 p1902 N84-22388
Integrable equations of motion by inertia for two bodies coupled through spherical hinge 17 p2650 N84-26948
On the two-body problem with variable masses 19 p3117 N84-29808
Numerical integration with Lie-series 19 p3118 N84-29814
An adaptive satellite orbit estimation scheme using an analytical approach and a dynamical model compensation technique 19 p3119 N84-29821
The determination of frequencies and mass characteristics of binary stars in open clusters 23 p3839 N84-34355

TWO DIMENSIONAL BODIES
The design and operational development of self-streamlining 2-dimensional flexible walled test sections
[NASA-CR-172328] 13 p1926 N84-22534
Threadwise analysis of woven fabric composites
[NAL-TR-792T] 16 p2470 N84-25832
Computer simulation of surface and film processes
[NASA-CR-173682] 21 p3419 N84-31682

TWO DIMENSIONAL BOUNDARY LAYER
Improved Two-Dimensional Kinetics (TDK) computer program
[NASA-CR-170922] 03 p0346 N84-12248
Some aspects of two-dimensional compressible turbulent boundary layers 06 p0837 N84-15456
The boundary layer on compressor cascade blades
[NASA-CR-173514] 15 p2332 N84-25001
Experimental investigation of two-dimensional shock boundary layer interactions 16 p2485 N84-25938
Solution of 3-dimensional time-dependent viscous flows. Part 3: Application to turbulent and unsteady flows
[NASA-CR-166565-PT-3] 17 p2667 N84-27003

TWO DIMENSIONAL FLOW
NT COUETTE FLOW
A new method of estimating wind tunnel wall interference in the unsteady two-dimensional flow
[AD-A130475] 01 p0004 N84-10029
On the stability of the unsteady boundary layer on a cylinder oscillating transversely in a viscous fluid
[NASA-CR-172216] 01 p0076 N84-10499
Fingers in a Hele-Shaw cell with surface tension
[AD-A130548] 01 p0130 N84-10852
COMPBL-II: Compressible, variable pressure boundary layer program for arbitrary gaseous mixtures
[AD-A131352] 02 p0218 N84-11427
Flow-through boundary conditions for time-dependent, buoyancy-influenced flow simulations using low order finite elements
[DE83-010256] 02 p0218 N84-11430
Improved Two-Dimensional Kinetics (TDK) computer program
[NASA-CR-170922] 03 p0346 N84-12248
Numerical calculations of turbulent recirculating heat transfer beyond two-dimensional back-steps and sudden pipe expansions 03 p0374 N84-12439
Coronal transients in FE XIV 5303A: First two-dimensional photoelectric ground-based observations 03 p0486 N84-13072
Numerical modeling of turbulent flow in a channel
[NASA-CR-168278] 04 p0485 N84-13189
The quantum hall effect 04 p0611 N84-14036
Two-dimensional accretion disk structure and stability 04 p0620 N84-14090
Coupling between angular deflection and eddy currents in the FELIX plate experiment
[DE84-001509] 05 p0750 N84-14927
Flow mechanism and experimental investigation of a rotating stall in transonic compressors
[NASA-TM-77373] 06 p0782 N84-15122
Ice formation in aircraft 06 p0783 N84-15130
Numerical simulation of separated flows 06 p0832 N84-15413
Some aspects of two-dimensional compressible turbulent boundary layers 06 p0837 N84-15456
Two dimensional condensing flow in transonic turbine cascades 06 p0841 N84-15484
Fully coupled calculation of fluid flows with limited use of computer storage
[DE84-002218] 06 p0844 N84-15508
Compressor rotor aerodynamics 07 p0958 N84-16210
JANNAF Performance Standardization Subcommittee 16th Meeting minutes
[CPIA-PUBL-382] 07 p0961 N84-16355
TWINTN4: A program for transonic four-wall interference assessment in two-dimensional wind tunnels
[NASA-CR-3777] 06 p1106 N84-17189

The effect of the artificial far field boundary on a finite different approximation of the Navier-Stokes equations for a compressible fluid
[AD-A135152] 08 p1157 N84-17536
Experimental study of flow reattachment in a single-sided sudden expansion
[NASA-CR-3765] 09 p1312 N84-18571
Interaction of two-dimensional transverse jet with a supersonic mainstream
[NASA-CR-175446] 11 p1602 N84-20492
Two-dimensional wind tunnel wall interference
[AD-A138954] 11 p1603 N84-20499
Application of improved numerical schemes 11 p1610 N84-20537
Investigations of flowfields found in typical combustor geometries 11 p1611 N84-20544
Crossed hot-wire data acquisition and reduction system
[NASA-TM-85871] 11 p1656 N84-20807
Study of large-scale mixing in developing wakes behind streamlined bodies
[NASA-CR-173478] 12 p1766 N84-21517
Studies of the behavior of a snow cover on mountain slope. 12: Curves Cxubh and Cxubv in a wedge-shaped snow cover 15 p2353 N84-25115
La Recherche Aerospatiale, Bimonthly Bulletin, number 1983-S, 216/September - October
[ESA-TT-836] 15 p2402 N84-25419
Dynamic crack growth in polymers
[AD-P003106] 16 p2467 N84-25811
The computation of inviscid-viscous coupled equations by a finite element method
[ONERA-NT-1983-1] 16 p2488 N84-25957
Numerical computation of vortical flows about wings 16 p2492 N84-25987
Recent developments in multigrid methods for the steady Euler equations 16 p2492 N84-25988
Spatial derivatives of flow quantities behind curved shocks of all strengths
[NASA-TM-85782] 17 p2600 N84-26665
Mixed boundary-value problems pertaining to profile of supersonic nozzles and channels 17 p2645 N84-26919
Flow of stellar wind past X-radiation source 17 p2645 N84-26920
Long-time states of inverse cascades in the presence of a maximum length scale 17 p2666 N84-26999
High Reynolds number tests of a Boeing BAC I airfoil in the Langley 0.3-meter transonic cryogenic tunnel
[NASA-TM-81922] 18 p2786 N84-27684
Numerical solution for the interaction of shock wave with laminar boundary layer in two-dimensional flow on a flat plate
[NASA-TM-77406] 19 p3022 N84-29160
Wave-less free-surface pressure distributions
[AD-A141630] 19 p3024 N84-29176
Description and validation of the two dimensional test setup for multiple airfoils in the pressurized wind tunnel HST
[NLR-TR-83031-U] 20 p3132 N84-29892
Random-choice solutions for two-dimensional and axisymmetric supersonic flows 20 p3168 N84-30115
Unsteady transonic aerodynamic and aeroelastic calculations about airfoils and wings
[NASA-TM-85986] 21 p3324 N84-31092
Efficient finite-difference calculation procedure for multi-dimensional fluid flows
[DE84-011710] 21 p3401 N84-31577
Two-dimensional vapor flow analysis in heat pipes
[DE84-012581] 21 p3402 N84-31582
A linear aerodynamic analysis for unsteady transonic cascades
[NASA-CR-3833] 22 p3531 N84-32355
Unsteady viscous-inviscid interaction procedures for transonic airfoil flows
[AD-A143764] 23 p3690 N84-33390
Description and prediction of transition in two-dimensional, incompressible flow 23 p3748 N84-33758
Laser velocimeter measurements of dynamic stall — conducted in the Ames two foot wind tunnel
[NASA-CR-166603] 24 p3852 N84-34429
Turbulent boundary layers developing over compliant surfaces
[AD-A144266] 24 p3900 N84-34898

TWO DIMENSIONAL JETS
Turbulence measurements in plane jets and plumes in crossflow 10 p1496 N84-19783
Development of a 2-dimensional turbulent jet under natural and excited conditions 17 p2666 N84-26997

TWO PHASE FLOW
Raman scattering temperature measurements for water vapor in nonequilibrium dispersed two-phase flow
[DE83-900107] 01 p0080 N84-10522
Prediction of erosive wear by solid particles in a turbulent curved-channel flow
[DE83-012896] 01 p0081 N84-10524
Measurement of two-phase flow velocity using a laser Doppler anemometer
[DE83-013522] 01 p0082 N84-10531
Investigation of two-component two-phase channel flow with heat supply for application in inside cooled turbine blades 02 p0221 N84-11447
Numerical methods for free boundary problems and 2 phase flows
[AD-A131374] 02 p0280 N84-11835
Equations governing the liquid-film flow over a plane with heat flux and interfacial phase change
[DE83-017526] 04 p0536 N84-13525
Forced two-phase cooling of the TPC superconducting solenoid
[DE83-017749] 04 p0613 N84-14049
Eulerian and Lagrangian predictions of particulate two phase flows
[KU-SFB-80/T/222] 05 p0682 N84-14481
Computation of turbulent gas-particle suspension flows in channels 06 p0839 N84-15470
The BLOW-3A: A theoretical model to describe transient two phase flow conditions in Liquid Metal Fast Breeder Reactor (LMFBR) coolant channels 06 p0843 N84-15497
Two-phase flow studies
[DE84-001727] 06 p0845 N84-15511
Direct steam generation in line-focus solar collectors
[DE83-006030] 06 p0872 N84-15678
A 2-phase flow model for the diffused cavitation study
[CISE-2109] 07 p1004 N84-16514
Experimental study of bubble cavities attached to a rotating shaft in a reservoir
[NASA-TM-83586] 08 p1157 N84-17533
Thermal control 09 p1289 N84-18289
Design and test of a cryogenic phase separator for zero-g environment 10 p1442 N84-19418
Solution of particulated viscous flow over a two dimensional cylinder and in a radial inflow turbine 10 p1496 N84-19782
Effect of liquid droplets on turbulence structure in a round gaseous jet 11 p1609 N84-20533
Two-phase fluid flow through nozzles and abrupt enlargements
[DE84-006991] 12 p1816 N84-21841
Three-dimensional, two-phase supersonic nozzle flows
[AD-A138649] 13 p1926 N84-22538
Detailed flow measurements in fuel-rich, particle-laden plumes 13 p1952 N84-22690
Mixing of swirling flows and behavior of wet flows
[AD-A138697] 13 p1969 N84-22915
Instability of the flow of two immiscible liquids with different viscosities in a pipe
[AD-P002935] 14 p2196 N84-24175
Nonuniqueness and stability of the configuration of flow of immiscible fluids with different viscosities
[AD-P002937] 14 p2196 N84-24177
Problem independent numerical simulation of two-phase flow in combustors 15 p2294 N84-24768
An experimental and analytical study of spray flow fields formed by liquid/gas coaxial injector elements
[NAL-TR-745] 15 p2331 N84-24997
Splitting of condensation shock waves in fluids of high specific heat
[MPIS-MITT-76] 16 p2487 N84-25849
Two-phase heat transport system conceptual studies — large space structures
[SABCA-JPM/LN/HO5/N117] 18 p2807 N84-27822
Proc. of a Course of Lectures and Computer Workshops on Computer Simulation of Multi-Phase Flows
[CFD/83/4] 18 p2838 N84-28012
Entrainment and deposition of drops in a dispersed 2-phase flow: An experimental investigation
[CFD/83/6] 18 p2838 N84-28013
A blowup phenomenon of the working fluid in a two-phase closed thermosyphon 20 p3169 N84-30122
Numerical treatment of pipe boundary conditions in two-phase flow
[DE84-006553] 20 p3185 N84-30238
Airblast simulations using flux-corrected transport codes
[AD-A142820] 21 p3400 N84-31567
An investigation of single-substance horizontal two-phase flow
[DE84-012292] 21 p3403 N84-31587
Measure of mass flow rate in gas-solid two phase fluids; application to pneumatic transport 21 p3403 N84-31590
Holographic investigation of thermal nonequilibrium vapor generation
[DE84-011905] 21 p3406 N84-31607
Comparison between two Lysholm engines
[DE84-013696] 22 p3584 N84-32571
Two phase system; interfacial turbulence
[AD-A143182] 22 p3593 N84-32754
Research on Instrumentation, Testing and Evaluation
[DE84-014859] 23 p3727 N84-33616

TWO PHASE SYSTEMS
U BINARY SYSTEMS (MATERIALS)

TWO STAGE TURBINES
Stator blade row geometry modification influence on two-stage, axial-flow compressor aerodynamic performance
[AD-A141793] 19 p2966 N84-28797

TWO-WAVELENGTH LASERS
Application of laser velocimetry to unsteady flows in large scale high speed tunnels
[NASA-CR-166575] 12 p1765 N84-21511

TYPEWRITERS
Communication aids for the handicapped 20 p3265 N84-30715

TYPHOONS
Tropical cyclones affecting Guam (1671-1980)
[AD-A134016] 05 p0708 N84-14638
Proceedings of the 12th Joint Panel Conference of the US-Japan Cooperative Program in Natural Resources: Wind and Seismic Effects
[PB84-167758] 15 p2318 N84-24911
GMS observations of Typhoon 8305(Abby) and heavy rainfall of eastern Japan
[ISSN-0388-9653] 16 p2528 N84-26230
GMS observations of Typhoon 8205, 8212, 8213 23 p3800 N84-34092

T2J AIRCRAFT
U T-2 AIRCRAFT

U

U.S.S.R.
USSR report: Science and technology, no. 19
[JPRS-84497] 01 p0054 N84-10348
A study of cirriform clouds over eleven USSR stations
[AD-A130085] 01 p0107 N84-10693
USSR report: Science and technology policy, no. 18
[JPRS-84484] 01 p0157 N84-11034
The socialist and developing countries: Technology transfer 01 p0157 N84-11035
Scientific, technical cooperation among CEMA member-countries urged 01 p0157 N84-11036
Stronger union of science and industry demanded 01 p0157 N84-11037
Improvements noted in patent information system for CEMA member-countries 01 p0158 N84-11038
Organizational improvements in CEMA scientific, technical cooperation sought 01 p0158 N84-11039
Pravda article on inventions elicits response 01 p0158 N84-11040
Improved management of scientific progress in Armenia urged 01 p0158 N84-11041
Lack of support for introduction of Soviet inventions scored 01 p0158 N84-11042
Sixth all-union congress of inventors held 01 p0158 N84-11043
Applications of academic research neglected by industry 01 p0158 N84-11044
Science and technology programs discussed 01 p0158 N84-11045
USSR report: Transportation, no. 129
[JPRS-84573] 02 p0167 N84-11094
Bibliography of Soviet Laser Developments, number 60, July August 1982
[AD-A133932] 05 p0759 N84-14978
USSR rept.: Electronics and electrical engineering. Radar signal reception against background of random interference
[JPRS-UEE-84-001] 07 p0986 N84-16389
Military Medical Journal, no. 7, 1983
[L-2456] 08 p1198 N84-17811
USSR report: Space
[JPRS-USP-84-002] 12 p1774 N84-21566
USSR report: Engineering and equipment
[JPRS-UEQ-84-004] 13 p1967 N84-22772
Scientific activity in hydrology, 1979-1982 13 p2005 N84-23010
Landmarks of progress 13 p2065 N84-23397
Legal expert expounds on new civil air code 14 p2093 N84-23553
USSR report: Political and sociological affairs, no. 1389. Chapters from Brezhnev's Reminiscences
[JPRS-83124] 14 p2112 N84-23658
USSR report: Human resources
[JPRS-UHR-84-009] 14 p2187 N84-24103
USSR report: Transportation
[JPRS-UTR-84-018] 17 p2598 N84-26652
Achievements of Kamov helicopter design bureau 17 p2598 N84-26653
USSR report: Electronics and electrical engineering
[JPRS-UEE-84-007] 17 p2630 N84-26821

USSR report: Engineering and equipment
[JPRS-UEQ-84-003] 17 p2640 N84-26895
USSR report: Transportation
[JPRS-UTR-84-005] 18 p2784 N84-27668
Hungarian officials comment on performance of Soviet-built aircraft 18 p2784 N84-27670
USSR Report: Transportation
[JPRS-UTR-84-009] 18 p2790 N84-27709
Antonov Bureau developing new STOL turbofan for use in far north 18 p2790 N84-27710
Status, future plans for Aeroflot's meteorological support 18 p2790 N84-27711
Process for renovating aircraft tires tested 18 p2790 N84-27712
USSR Report: Electronics and electrical engineering
[JPRS-UEE-84-002] 18 p2822 N84-27915
Formation and distribution of kimberlites in the eastern Siberian platform in connection with deep structure specifics 18 p2858 N84-28151
USSR report: Life sciences, biomedical and behavioral sciences
[JPRS-UBB-84-011] 18 p2894 N84-28364
Scientific and technical training in the Soviet Union
[NASA-TM-86252] 18 p2954 N84-28725
USSR report: Space
[JPRS-USP-84-003] 19 p2970 N84-28823
Manned flight chronology 19 p2970 N84-28824
Feoktistov recounts planning for Gagarin spaceflight 19 p2971 N84-28836
Joint Soviet-American project for detection of gravitational waves 19 p2972 N84-28840
Seismological Research on the World Ocean
[REPT-9279] 19 p3059 N84-29411
Dominant depth of sources in the Kuril-Kamchatka earthquake focal zone from observations by surface and bottom stations 19 p3060 N84-29419
USSR report: Earth sciences
[JPRS-UES-84-006] 20 p3223 N84-30479
USSR report: Transportation
[JPRS-UTR-84-024] 21 p3329 N84-31119
USSR report: Transportation
[JPRS-UTR-84-026] 23 p3687 N84-33368
Civil aviation officials review ministerial concerns, goals 23 p3687 N84-33369
Aeroproyekt Institute's work in aviation facility design 23 p3687 N84-33370
Polymers as substitutes for metal and lumber 24 p3867 N84-34510
Far north as source of nonferrous metals 24 p3874 N84-34551

U.S.S.R. SPACE PROGRAM
USSR report: Space Biology and Aerospace Medicine, volume 18, no. 1, January - February 1984
[JPRS-USB-84-002] 12 p1864 N84-22149
Cosmic October 14 p2112 N84-23659
Future space transport
[NASA-TM-77554] 14 p2114 N84-23668
Peaceful use and self defense in outer space
[AD-P002155] 14 p2138 N84-23820
Soviet military capabilities in space
[AD-P002156] 14 p2139 N84-23821
Comments on goals of 'Soyuz T-10' flight 19 p2970 N84-28825
Venera-15, -16 radar imagery of Venus 19 p2974 N84-28855
Processing of 'Venera-15, -16' radar mapping imagery 19 p2974 N84-28856
Roughness of surface of Venus from bistatic radar data 19 p2975 N84-28857
Space biology and medicine: Yesterday and today 19 p2976 N84-28865
Salyut: Soviet steps toward permanent human presence in space
[PB84-181437] 20 p3135 N84-29905
List of recent Soviet space launches 21 p3348 N84-31239

U-2 AIRCRAFT
Severe storm electricity 24 p3926 N84-34851

UDIMET ALLOYS
Effects of long-time elevated temperature exposures on hot-isostatically-pressed power-metallurgy Udimet 700 alloys with reduced cobalt contents
[NASA-TM-83632] 19 p2985 N84-28917

UFO
U UNIDENTIFIED FLYING OBJECTS

UH-1 HELICOPTER
Documentation of ice shapes on the main rotor of a UH-1H helicopter in hover
[NASA-CR-168332] 08 p1098 N84-17139
Experimental blade vortex interaction noise characteristics of a utility helicopter at 1/4 scale
[NASA-TM-84653] 08 p1227 N84-18018
Evaluation of installation of Lightweight Doppler Navigation System (LDNS) in Iroquois UH-1H aircraft
[AD-A137815] 11 p1605 N84-20510
Safety recommendation(s) A-84-16 16 p2444 N84-25679

UH-60A HELICOPTER
Preliminary airworthiness evaluation of the UH-60 helicopter with T700-GE-701A engines installed
[AD-A140882] 17 p2606 N84-26546
Multivariable digital control laws for the UH-60A black hawk helicopter
[AD-A141046] 18 p2797 N84-27748

UHTREX (NUCLEAR REACTORS)
U HIGH TEMPERATURE NUCLEAR REACTORS

UK SATELLITES
Theory of digital imaging from orbital synthetic aperture radar
[AD-A141152] 18 p2828 N84-27957

ULCERS
The response of rats to cutaneous dosing with trichothecene mycotoxins
[MRL-R-902] 08 p1197 N84-17803
A study on the gastrointestinal hormones and the gastric acid secretion during physical stress in man
[NDRE/PUBL-83/1001] 10 p1546 N84-20136
General introduction to the study on the gastrointestinal hormones and the gastric acid secretion during physical stress in man 10 p1546 N84-20137
Effects of ionizing radiation and restraint stress on activity, avoidance conditioning, and stomach ulcers in albino rats
[AD-A141515] 19 p2984 N84-28911

ULLAGE
Shuttle orbiter main propulsion system hardware development and certification for flight 20 p3135 N84-29907

ULNA
Static versus dynamic loads as an influence on bone remodelling
[NASA-CR-173365] 09 p1360 N84-18887

ULTRA SHORT WAVE RADIO EQUIPMENT
U VERY HIGH FREQUENCY RADIO EQUIPMENT

ULTRAHIGH FREQUENCIES
A 20-GHz IMPATT transmitter
[NASA-CR-168076] 02 p0212 N84-11385
A 20-GHz IMPATT transmitter, summary 02 p0212 N84-11386
A 20-GHz IMPATT diode development
[S-3057] 02 p0212 N84-11387
L band satellite communication experiment in the Antartic
[ESA-TT-805] 03 p0362 N84-12356
RF performance of a proposed L-band antenna system 04 p0519 N84-13410
L band low noise amplifier project
[INPE-2794-PRE/356] 04 p0524 N84-13445
Engineering evaluations and studies. Volume 2: Exhibit B, part 1
[NASA-CR-171725] 06 p0794 N84-15175
A digital ferrite phase-shifter for high power S-band operation 06 p0906 N84-15886
A user's manual for the NASA/JPL synthetic aperture radar and the NASA/JPL L and C band scatterometers
[NASA-CR-173209] 07 p0992 N84-16428
S-band SBAW microwave source, phase 2
[NASA-CR-175153] 08 p1142 N84-17432
S-band range tracker and Surveillance Lab interface
[AD-A134730] 08 p1145 N84-17451
Analysis of technical possibilities for further sharing of the UHF television band by the land mobile services in the top ten land mobile markets
[PB84-123116] 08 p1148 N84-17470
Assessment of satellite power flux-density limits in the 2025-2300 MHz frequency range, part 1
[PB84-129402] 09 p1305 N84-18532
On the dielectric properties of dry snow in the 800 MHz to 13 GHz range — remote sensing
[REPT-S-135] 09 p1337 N84-18733
Interface control document for RT-XXXX/ARC-164 UHF-AM radio
[AD-A136970] 10 p1481 N84-19681
UHF (Ultra-High Frequency) propagation measurements
[AD-A137637] 11 p1643 N84-20741
A microwave time transmission system
[ESA-TT-782] 16 p2482 N84-25916
Advanced technology UHF receiver study. Part 2: Effect on UHF television allotments
[PB84-173848] 16 p2483 N84-25921
Around-a-mast quadrifilar microstrip antenna
[AD-D011051] 22 p3571 N84-32617
The X, and L-band radar backscatterer analysis of agricultural crops in West Germany 23 p3767 N84-33879
Estimating net rainfall, evaporation and water storage of a bare soil from sequential L-band emissivities 23 p3769 N84-33889
The modification of the modulation transfer function by sea slicks measured by L-band radar 23 p3780 N84-33971
Flight termination receiver catalog
[AD-A144155] 24 p3894 N84-34857

ULTRAHIGH VACUUM
Materials processing in space program tasks-supplement
[NASA-TM-82548] 03 p0338 N84-12196
Precision manipulator heating and cooling apparatus for use in UHV systems with sample transfer capability
[NASA-CASE-LAR-13040-1] 19 p3026 N84-29191
Method for making Josephson junctions with contamination-free interfaces utilizing a ZNO contact insulator
[AD-D011057] 22 p3580 N84-32671

ULTRALOW FREQUENCIES
U EXTREMELY LOW RADIO FREQUENCIES

ULTRALOW TEMPERATURES
Transient high-field behavior of niobium superconducting cavities
[DE83-011852] 01 p0068 N84-10443
A technique for dynamically calibrating pressure transducers at cryogenic temperatures
[NASA-TM-85695] 02 p0222 N84-11458
A helium refrigerator with features for supercritical pressure cooling
[DE84-017759] 04 p0515 N84-13383
Structural studies at elevated pressure and reduced temperatures using synchrotron radiation: Application to Ce.8La.1Th.1
[DE84-001793] 06 p0924 N84-16007
Specific heat of He-3 in the Fermi-liquid region
[DE83-014858] 08 p1182 N84-17586
Momentum distributions in hcp, bcc, and liquid He-4
[DE84-014679] 23 p3831 N84-34300

ULTRAPURE METALS
Deep level impurities in germanium and silicon: Low temperature passivation or removal techniques
[DE84-006772] 13 p2048 N84-23286

ULTRASHORT PULSED LASERS
Generation of ultra-short laser pulses in the visible and near infrared for a spaceborne laser ranging transmitter 24 p3906 N84-34740

ULTRASONIC CLEANING
Vapor degreaser/ultrasonic cleaner solvent evaluation
[DE84-002015] 04 p0508 N84-13331
Micrometric cleaning of steel tubes through ultrasonic cavitation
[REPT-61584] 21 p3491 N84-32125

ULTRASONIC DENSIMETERS
High resolution ultrasonic densitometer
[DE84-003387] 13 p1994 N84-22939

ULTRASONIC FLAW DETECTION
NDE techniques for composite laminates 01 p0033 N84-10205
Optimization of ultrasonic flaw detection in railroad rail
[PB83-239919] 03 p0366 N84-12518
Analytic diffraction corrections to ultrasonic scattering measurements
[DE83-018080] 03 p0431 N84-12825
Measurements of ultrasonic scattering from near-surface flaws
[DE83-017693] 03 p0431 N84-12827
Ultrasonic 3-D reconstruction of inclusions in solids using the inverse Born algorithm
[DE83-018082] 04 p0595 N84-13928
Development of ultrasonic methods for the nondestructive inspection of concrete
[DE83-017923] 04 p0595 N84-13929
Effects of a finite aperture on the inverse born approximation
[DE83-018086] 04 p0596 N84-13930
Ultrasonic NDE of bonds in multilayered systems
[AD-A133619] 05 p0889 N84-14530
An instrument for the characterization of defects in ultrasonic inspections
[CISE-2073] 05 p0890 N84-14533
A comparison between new and traditional ultrasonic techniques on thick welds in pressure vessels
[CISE-2074] 05 p0890 N84-14534
The use of microprocessors for the instrumentation of nondestructive tests
[CISE-2072] 06 p0855 N84-15571
The use of matrix transducers in medium thickness welding inspection
[CISE-2075] 06 p0855 N84-15572
Nondestructive measurement of bulk residual stresses
[AD-A134600] 07 p1013 N84-16573
Direct and inverse diffraction problems for QNDE (Quantitative Non-Destructive Evaluation) applications
[AD-A135838] 09 p1327 N84-18688
Ultrasonic transducer arrays for nondestructive testing 11 p1645 N84-20757
Ultrasonic angle beam standard reflector
[NASA-CASE-LAR-13153-1] 11 p1728 N84-21274

Ultrasonic inspection of MC2893 strength member assembly weld
[DE84-007084] 12 p1824 N84-21892
Two-dimensional scanner apparatus — flaw detector in small flat plates
[NASA-CASE-MFS-25687-1] 13 p1992 N84-22928
Non-destructive evaluation of composite materials using ultrasound
[NASA-CR-173416] 13 p1999 N84-22969
Ultrasonic methods to study shadow boundaries of diffracting cracks. Ultrasonic caustics in NDE (Non-Destructive Evaluation)
[AD-A138839] 13 p1999 N84-22970
An acoustical imaging system for the inspection of solid rocket motors
[AD-A139482] 14 p2156 N84-23918
Ultrasonic inspection of internal defects in castings
[VTT-201] 14 p2156 N84-23920
Defect sizing using the time of flight technique on the RNL RSV plate
[ND-R-790(R)] 18 p2850 N84-28099
Defects and materials characterization by analysis of ultrasonic signals
[AD-A141180] 18 p2851 N84-28101
Automated detection of internal and surface defects in moving strip
[BMFT-FB-T-84-079] 19 p3033 N84-29239
Nondestructive testing of bonding by ultrasonic analysis: Preliminary study report proposed investigation program — metal bonding
[CETIM-13-V-010] 21 p3416 N84-31660
Computer aided ultrasonic testing
[CETIM-15-H-404] 21 p3416 N84-31661
Application of measurements of the propagation velocity of ultrasonic Rayleigh waves to surface inspection of materials
[CETIM-15-H-417] 21 p3416 N84-31662

ULTRASONIC GRINDING MACHINES
U ULTRASONIC MACHINING

ULTRASONIC MACHINING
Ultrasonic machining (impact grinding)
[DE84-007783] 15 p2344 N84-25069

ULTRASONIC RADIATION
Ultrasonic reflection from solid halfspaces and from solid plates
[AD-A129886] 01 p0140 N84-10916
Progress on ultrasonic flaw sizing in turbine-engine rotor components: Bore and web geometries
[DE83-018081] 03 p0333 N84-12167
Rising bubbles
[AD-A131572] 03 p0371 N84-12418
Effects of crack closure on ultrasonic transmission
[DE83-018073] 04 p0546 N84-13599
Absolute determination of stress in textured materials
[DE83-018063] 04 p0550 N84-13621
Development of ultrasonic modeling techniques for the study of crustal inhomogeneities
[AD-A134501] 08 p1187 N84-17736
Method for thermal monitoring subcutaneous tissue
[NASA-CASE-LAR-13028-1] 11 p1694 N84-21053
Laser generation of ultrasound
[AD-A138483] 12 p1821 N84-21870
Characterization and scattering of bounded ultrasonic beams
[AD-A138491] 12 p1899 N84-22369
Velocities of guided ultrasonic waves in heterogeneous medium
[NASA-TM-77445] 14 p2221 N84-24325
The influence of stress on the principal polarisation directions of ultrasonic shear waves in textured steel plates
[AERE-R-11078] 18 p2854 N84-28124
Scattering of ultrasound by minority phases in polycrystalline metals
[AERE-R-11162] 18 p2929 N84-28574

ULTRASONIC SCANNERS
A Fourier transform technique which measures phase delays between ultrasonic impulses with sufficient accuracy for the determination of residual stresses in metals
[AERE-R-1093] 01 p0047 N84-10306
Signal-processing capabilities of a computerized ultrasonic scanning bridge
[DE83-013706] 01 p0085 N84-10553
Assessment of ultrasonic B-scan imaging for detection and quantification of atherosclerotic lesions in human carotid and iliofemoral arteries and in arteries of animals
[PB83-261123] 05 p0714 N84-14678
Quality assurance of heat-fused polyethylene plastic pipe joints, phase 2
[PB84-104942] 08 p1168 N84-17608
Torsional ultrasonic technique for reactor vessel liquid level measurement
[DE84-003357] 08 p1228 N84-18024
Shearing stability of lubricants
[NASA-TM-77435] 11 p1636 N84-20697
Ultrasound visualization of cardiovascular systems
15 p2430 N84-25597
Automated detection of internal and surface defects in moving strip
[BMFT-FB-T-84-079] 19 p3033 N84-29239
Instrumentation for real-time ultrasonic sensing of arc welding characteristics
[DE84-012536] 21 p3414 N84-31649

ULTRASONIC SPECTROSCOPY
Optical probing of photoacoustic propagation for noncontact measurement of flows, temperatures and chemical compositions
[AD-A134129] 05 p0684 N84-14496
Optical generation and detection of acoustic pulse profiles in gases for novel ultrasonic absorption spectroscopy
[AD-A141876] 19 p3104 N84-29720

ULTRASONIC TESTS
Elastic-wave inverse scattering in non-destructive evaluation
[DE83-017683] 03 p0366 N84-12513
Development of an ultrasonic testing procedure for electron beam welded parts for aerospace applications
[BMFT-FB-W-72-011] 03 p0366 N84-12515
An interactive computer program for analysis of ultrasonic modulus data on anistropic materials
[NPL-DMA(A)-68] 03 p0368 N84-12526
Characterization of carbon fiber composites using acousto-ultrasonic techniques
[AD-A132305] 04 p0506 N84-13317
Computer-based ultrasonic multiple-frequency pulse-echo test system
[AD-A132227] 04 p0595 N84-13926
Ultrasonic test data acquisition and defect verification of stainless steel welds at 4000 deg F
[DE83-012146] 06 p0855 N84-15570
Ultrasonic billet testing equipment for surface defects
[BMFT-FB-T-83-192] 07 p1014 N84-16576
Equation of state of fluid NH-3 from P-V-T and ultrasound measurements to 12 kbar
[DE83-015913] 08 p1125 N84-17316
Blood flow measurements under high-G conditions: Early prediction of Gz tolerance
[AD-A134653] 08 p1200 N84-17823
Methods for nondestructive tests of CFRP laminates
10 p1452 N84-19482
Characterization of fiber composite flywheels by ultrasonic imaging techniques
[DE84-004689] 10 p1452 N84-19487
Composite ring-disk flywheel design, fabrication and testing
[DE84-004761] 10 p1453 N84-19488
Detection and sizing of underbead cracks using ultrasonic nondestructive examination
[DE83-012205] 11 p1666 N84-20869
Echocardiography in the expert examination of flying personnel 11 p1700 N84-21090
Exploration of arterial function using Doppler flow determination. Application to aeronautical and space medicine 11 p1700 N84-21091
Laser generation of ultrasound
[AD-A138483] 12 p1821 N84-21870
Nondestructive ultrasonic investigation of modern fiber reinforced composites
[VTH-LR-382] 12 p1824 N84-21893
Compressibility of colloids. 2: Compressibility studies of tri-block non-ionic polymers in toluene and water solutions
[AD-A138738] 13 p1963 N84-22755
Ultrasonic techniques for the inspection of nuclear components
[BLL-RISLEY-TR-4905-(9091.9F)]
18 p2850 N84-28098
Defects and materials characterization by analysis of ultrasonic signals
[AD-A141180] 18 p2851 N84-28101
B-scan displays of ultrasonic time-of-flight diffraction tests of compact tension specimens
[AERE-R-11010] 18 p2854 N84-28126
Scattering of ultrasound by minority phases in polycrystalline metals
[AERE-R-11162] 18 p2929 N84-28574
Experimental and clinical research on the effectiveness of ultrasound in vascular surgery
[ISSN-0208-5658] 19 p3064 N84-29442
Adhesive bond and composite strength screening system developmental study
[FZM-7184] 20 p3161 N84-30073
Qualifications of ultrasonic testing for nuclear inservice inspection applications
[DE84-011899] 20 p3200 N84-30323
Method and apparatus for measuring stress
[DE84-011035] 20 p3203 N84-30347
Ultrasound distribution and bone calcium content in experimental animals submitted to hypokinesia and weightlessness 20 p3254 N84-30652
Ultrasonography of canine soft tissues during decompression 20 p3254 N84-30653
Evaluation of a vibration technique for detection of barely-visible impact-damage in composites
[AD-A142807] 21 p3357 N84-31293
Application of elastic wave scattering theory to the detection and characterization of flaws in structural materials
[DE84-013729] 22 p3607 N84-32852
Non-destructive evaluation techniques, high temperature ceramic component parts for gas turbines
[NASA-TM-77755] 23 p3694 N84-33413
Ultrasonic inspection of composite materials
[AD-D011210] 24 p3911 N84-34768

ULTRASONIC WAVE TRANSDUCERS
Computational tool for the design of ultrasonic systems
[DE83-018092] 03 p0431 N84-12824
Helium-flow measurement using ultrasonic technique
[DE83-017765] 03 p0431 N84-12826
Analysis and acoustooptical measurements of bulk and surface acoustic wave fields
[NASA-CR-173271] 07 p1069 N84-16945
Ultrasonic transducer with Gaussian radial pressure distribution
[NASA-CASE-LAR-12967-1] 13 p1993 N84-22932
Residual stress measurements using shear-horizontal waves from electromagnetic acoustic transducers
[PB84-190636] 20 p3176 N84-30171
A theory for cross-coupling in ultrasonic transducer arrays
[DE84-010327] 20 p3189 N84-30259
A study for developing an ultrasonic Doppler flowmeter
[BMFT-FB-T-84-135] 23 p3752 N84-33788
Apparatus for disintegrating kidney stones
[NASA-CASE-GSC-12652-1] 24 p3936 N84-34913

ULTRASONIC WAVES
U ULTRASONIC RADIATION

ULTRASONIC WELDING
Welding of thermoplastics 09 p1292 N84-18437
New method and equipment for high-frequency welding of pipe 12 p1786 N84-21651
Welding with alloying and ultrasonic treatment with an ion beam 12 p1786 N84-21652
Real-time ultrasonic sensing of arc welding processes
[DE84-005031] 21 p3415 N84-31657

ULTRASONICS
Assessment of ultrasonic reference block calibration methodology
[PB83-225870] 01 p0086 N84-10558
Conference on Ultrasonics in Biology and Medicine, UBIOMED 6: Report summaries
[ISSN-0208-5658] 01 p0111 N84-10723
Ultrasound tomography by Galerkin or moment methods
[AD-A131408] 02 p0266 N84-11747
Grain structure identification by ultrasound frequency averaging and deconvolution
[AD-A134054] 05 p0653 N84-14294
Pulse echo ultrasonic techniques for underwater inspection of steel waterfront structures
[AD-A133701] 05 p0689 N84-14527
Input-output characterization of an ultrasonic testing system by digital signal analysis
[NASA-CR-3756] 06 p0854 N84-15565
Maximum entropy methods in electromagnetic/geophysical/ultrasonic imaging
[DE84-002793] 07 p0994 N84-16445
An adaptive, noise tolerant, frequency extrapolation algorithm for diffraction corrected ultrasound tomography
[AD-A136455] 09 p1375 N84-18982
Obtaining metallic powders by ultrasonic atomization of melts 12 p1785 N84-21643
A review study of nondestructive test techniques for residual stresses in aircraft transparencies
[AD-A138930] 13 p1930 N84-22555
Application of NDE methods to green ceramics: Initial results
[DE84-006411] 14 p2130 N84-23769
USSR report: Electronics and electrical engineering
[JPRS-UEE-84-007] 17 p2630 N84-26821
The measurement of residual stress in textured steel using an ultrasonic velocity combination technique
[AERE-R-11115] 18 p2854 N84-28123
A comparison of the ultrasonic attenuation of Fe-C alloys in the annealed, normalised and quenched states
[AERE-R-10956] 18 p2929 N84-28573
Use of the Doppler ultrasound method to evaluate the rate of blood flow in children with patent ductus arteriosus
[ISSN-0208-5658] 19 p3064 N84-29441
Pulsed-laser generation of ultra-short acoustic pulses: Application for thin-film ultrasonic measurements
[AD-A141874] 19 p3100 N84-29690

Active ultrasonic cross-correlation flowmeters for mixed-phase pipe flows
[DE84-006449] 20 p3189 N84-30260
Biasing and fast degaussing circuit for magnetic materials
[DE84-011281] 20 p3285 N84-30657
Kinetics of complexation of the macrocycles 18C6 and 12C4 ethers with LiAsF-6 in 1,2-dimethoxyethane at 25 deg C
[AD-A143086] 21 p3359 N84-31304
Real-time ultrasonic sensing of arc welding processes
[DE84-005031] 21 p3415 N84-31657
USSR report: Physics and mathematics
[JPRS-UPM-84-003] 21 p3477 N84-32043
Resolution and quantitative accuracy improvements in ultrasound transmission imaging
21 p3490 N84-32113
The role of the reflection coefficient in precision measurement of ultrasonic attenuation
[NASA-TM-83788] 22 p3606 N84-32649
Ultrasonic velocity measurement using phase-slope cross-correlation methods
[NASA-TM-83794] 24 p3911 N84-34769
Measurement of small elastic anisotropy in solids using laser induced ultrasonic pulses
[AD-A144296] 24 p3912 N84-34775
Inventions, new technologies approved by Academy of Sciences: Invention using ultrasound
24 p3981 N84-35082

ULTRAVIOLET ABSORPTION
Ultraviolet light absorbers having 2 different chromophors in the same molecule
[DE84-011279] 20 p3150 N84-30000
Hydrogen-bond energies of dimer formation and UV absorption spectra of mono-methyl substituted 2-pyridones 21 p3477 N84-32040
Ultraviolet response of film candidates for the solar optical telescope photometric filtergraph
[NASA-CR-175254] 22 p3656 N84-33178
Ultraviolet interstellar absorption toward stars in the small Magellanic cloud 22 p3677 N84-33313
The stellar wind enigma in early type stars: The high-velocity, narrow absorption lines in the UV
24 p3971 N84-35141
The broad absorption line region in NGC 4151
24 p3971 N84-35146
A comprehensive ultraviolet extinction study: Grain model and grain evolution implications
24 p3982 N84-35232
Phase-dependent stellar wind absorptions in interacting Wolf-Rayet binaries 24 p3982 N84-35233

ULTRAVIOLET ASTRONOMY
Rocket and laboratory studies in aeronomy and astronomy
[NASA-CR-173272] 07 p1088 N84-17075
Measurements of chromospheric densities and geometrical extensions of late-type giant and super-giant stars
[NASA-CR-175236] 07 p1089 N84-17079
International Ultraviolet Explorer observations of Wolf-Rayet binaries: Wind structures
[NASA-CR-175235] 07 p1089 N84-17081
ROSAT-FI design review
[MPE-39] 08 p1109 N84-17209
Rocket observations of the diffuse ultraviolet background 10 p1598 N84-20470
LHEA contributions to the Future of Ultraviolet Astronomy Based on Six Years of IUE Research
[NASA-TM-86098] 15 p2423 N84-25559
Activities in astronomy
[ISSN-0531-4496] 20 p3319 N84-31067
Results from Astron satellite after one year in orbit
21 p3347 N84-31233
Ultraviolet studies of interstellar matter
23 p3839 N84-34356
On detecting diffuse ultraviolet radiation of cosmological origin
[PREPRINT-10] 23 p3840 N84-34362
Particle excitation, airglow and H2 vibrational disequilibrium in the atmosphere of Jupiter
[NASA-CR-173930] 23 p3843 N84-34383
Fourth European IUE Conference
[ESA-SP-218] 24 p3970 N84-35135
Ultraviolet observations of normal galaxies
24 p3970 N84-35136
Ultraviolet studies of the interstellar medium
24 p3970 N84-35137
Supernovae — IUE observations
24 p3970 N84-35138
Corona models tested with IUE and Einstein observations 24 p3970 N84-35139
IUE impact on the studies of the Zeta Aur, Algol and W Ser interacting binary systems
24 p3971 N84-35142
Study of hot spot galaxies 24 p3971 N84-35143
The International Ultraviolet Explorer (IUE): Six years in orbit 24 p3981 N84-35224
The ultraviolet astronomy mission: Columbus
24 p3982 N84-35228
Instrumentation studies for FUSE-Columbus
24 p3982 N84-35229

ULTRAVIOLET LASERS
Laser physics and laser spectroscopy
[AD-A131720] 03 p0379 N84-12470
High PRF HgBr laser life testing
[AD-A132660] 05 p0686 N84-14511
Development of an XUV amplifier
06 p0848 N84-15532
Collective instabilities and high-gain regime free electron laser
[DE84-006172] 15 p2340 N84-25045
Investigations of vacuum ultraviolet and soft X-ray lasers
[AD-A140362] 16 p2497 N84-26024
UV laser triggering of crowbars used in the Sandia lightning simulator
[DE84-009064] 20 p3180 N84-30199
How useful are odd-integer half-harmonics
[DE84-012392] 21 p3501 N84-32190
Optically nonlinear materials for tunable UV-lasers
[BMFT-FB-T-84-133] 23 p3755 N84-33806
Parametric characteristics of an electrically initiated HF laser
[AD-A144324] 24 p3908 N84-34757

ULTRAVIOLET LIGHT
U ULTRAVIOLET RADIATION

ULTRAVIOLET PHOTOGRAPHY
Method for creating synthesized images using diazo color films 19 p2978 N84-28875
Ultraviolet response of film candidates for the solar optical telescope photometric filtergraph
[NASA-CR-175254] 22 p3656 N84-33178

ULTRAVIOLET PHOTOMETRY
Rocket observations of the diffuse ultraviolet background 10 p1598 N84-20470

ULTRAVIOLET RADIATION
NT EXTREME ULTRAVIOLET RADIATION
NT FAR ULTRAVIOLET RADIATION
NT LYMAN ALPHA RADIATION
Advanced Ultra-Violet (UV) aircraft fire detection system. Volume 3: Ground Support Equipment (GSE) for system check-out
[AD-A130298] 01 p0006 N84-10039
Ultraviolet curable resin system for rapid runway repair
[AD-A130364] 01 p0016 N84-10104
Ultraviolet-laser triggering of a 5-megavolt multistage gas switch
[DE83-013641] 01 p0067 N84-10570
Research on surface physics and crystallography at NSLS
[DE83-015035] 01 p0155 N84-11017
Studies of collisional and nonlinear radiative processes for development of coherent UV and XUV sources
[AD-A131837] 03 p0379 N84-12467
Ultraviolet extinction properties of grains in the interstellar medium 03 p0476 N84-13131
Impact of enhanced solar UV-B radiation upon the marine ecosystem
[PB83-247411] 04 p0560 N84-13694
Generation of coherent, vacuum ultraviolet and extreme ultraviolet radiation 05 p0665 N84-14370
High resolution ultraviolet laser spectroscopy of mercury and helium 06 p0800 N84-15214
Effect of UV illumination on the sublimation of basal surfaces of zinc oxide
[AD-A133383] 06 p0801 N84-15222
Atomic oxygen effects on materials
06 p0929 N84-16036
Optical and X-ray selected samples of quasars: Evolution of the luminosity distributions
06 p0937 N84-16090
Study on the baffle system of the sounding rocket payload INTER-ZODIAK
[BMFT-FB-W-83-015] 07 p0962 N84-16239
Stratospheric determination of effective photodissociation cross sections for molecular oxygen: 191-204 nm
[AD-A134168] 07 p1034 N84-16706
User's guide for SBUV/TOMS ozone derivative products
[NASA-RP-1116] 07 p1036 N84-16720
The calculation of theoretical chromospheric models and the interpretation of solar spectra from rockets and spacecraft
[NASA-CR-175351] 07 p1092 N84-17105
Rapid magnetic energy release, its possible role in coronal heating and solar wind acceleration
[AD-A133170] 07 p1093 N84-17106
NIMBUS-7 SBUV (Solar Backscatter Ultraviolet) observations of solar UV spectal irradiance variations caused by solar rotation and active-region evolution for the period November 7, 1978 - October 26, 1979
[PB84-106166] 08 p1188 N84-17743
Combined ultraviolet studies of astronomical sources
[NASA-CR-175234] 08 p1242 N84-18121
Effects of combined ultraviolet and oxygen plasma environment on spacecraft thermal control materials — space shuttle payloads 10 p1446 N84-19449
Photochemical conversion of H-2Os-3(CO)10(P-Donor) to H-2Os-3(CO)9(P-Donor) in solution and on high surface area silica
[AD-A136991] 10 p1455 N84-19501
Optical coating in space
[NASA-CR-175441] 11 p1731 N84-21290
Module degradation catalyzed by metal-encapsulation reactions 12 p1839 N84-21989
Hydrolytic degradation of Kevlar 49 fibers
[DE84-004158] 13 p1954 N84-22705
Uracil and uridine photolysis on lunar soil
14 p2250 N84-24518
Catalogue of stellar ultraviolet fluxes. A compilation of absolute stellar fluxes measured by the Sky Survey Telescope (S2/68) aboard the ESRO satellite TD-1
15 p2423 N84-25558
Automatic, self-nulling, spectral scanning ellipsometer: Software for the LSI-11 data acquisition system
[LBL-15525] 16 p2543 N84-26320
The particle and ultraviolet (UV) radiation testing of space materials
[ESA-PSS-01-706-ISSUE-1] 16 p2555 N84-26393
The 3.3 micron mapping of NGC 7027
16 p2571 N84-26499
The diffuse ultraviolet background: 1700 - 2900 Angstroms 16 p2576 N84-26534
The effect of accelerated ultra violet weathering on the rain erosion resistance of coated aircraft transparencies
[AD-P003194] 17 p2591 N84-26607
Artificial aging of transparent aerospace materials
[AD-P003210] 17 p2593 N84-26623
Simulation of exposure of aircraft transparencies to flight line environment
[AD-P003212] 17 p2594 N84-26625
Temporal variations of solar UV spectral irradiance caused by solar rotation and active region evolution
17 p2780 N84-27650
Modelling solar spectral irradiance variations at ultraviolet wavelengths 17 p2780 N84-27651
Direct measurement of a VUV transition oscillator strength in xenon
[DE84-006555] 18 p2941 N84-28855
Diagnostics development for E-beam excited air channels: Optical studies of the PHERMEX electron beam
[AD-A142095] 19 p3101 N84-29701
Resonance ionization spectroscopy of argon, krypton and xenon using vacuum ultraviolet light
[DE84-011655] 20 p3150 N84-30006
A program to improve solar blind UV (ultraviolet) flash lamps
[AD-A141909] 20 p3177 N84-30177
Holographic interferometry using 20-picosecond UV pulses to obtain time resolved hydro measurements of selenium and gold plasmas
[DE84-009485] 20 p3191 N84-30269
Dissociation of amino acid-DNA complexes under influence of long-wave UV light
20 p3258 N84-30680
Operation and maintenance of selected ozone and ultraviolet disinfection systems
[PB84-180124] 20 p3265 N84-30719
The NOAA-ERL-ARL solar UV radiation and climate research project program description
[PB84-183292] 20 p3319 N84-31070
Laser induced polymerization reactions in solid propellant binders 21 p3373 N84-31403
Optical coating materials for the ultraviolet: Selection and characterization
[DE84-011504] 21 p3410 N84-31629
Effect of thermal irradiation from evaporation source to photo-darkening sensitivity of vacuum deposited AgBr film 21 p3477 N84-32038
Properties of UV-cured polyurethane acrylates: Effect of polyol type and molecular weight
[AD-A143176] 22 p3559 N84-32537
Ultraviolet response of film candidates for the solar optical telescope photometric filtergraph
[NASA-CR-175254] 22 p3656 N84-33178
The ionization structure of planetary nebulae V NGC 3242
[NASA-CR-173914] 22 p3679 N84-33322
On detecting diffuse ultraviolet radiation of cosmological origin
[PREPRINT-10] 23 p3840 N84-34362

An experimental approach to evaluating environmental degradation mechanisms in bisphenol-A polycarbonate films on metallic substrates
[SERI/TR-255-1602] 24 p3917 N84-34798
Search for the radiative decay of a cosmic relic particle with IUE 24 p3982 N84-35231
ULTRAVIOLET SPECTRA
A study of the large-scale structure of the plasmasphere using extreme ultraviolet observations 02 p0306 N84-12009
An extreme ultraviolet study of Tokamak plasmas using a time-resolving spectrograph 05 p0748 N84-14915
FGGE/SBUV tape specification and shipping letter description
[NASA-CR-170482] 06 p0934 N84-16071
A study of the atmosphere and ionosphere using satellite observations of 300-1400 Ang airglow
[NASA-CR-173146] 07 p1028 N84-16863
Preliminary results of a statistical classification of ultraviolet stellar spectra 09 p1409 N84-19205
Rocket observations of the diffuse ultraviolet background 10 p1598 N84-20470
Ultraviolet and X-ray observations of active galactic nuclei: Constraints on models of the broad emission line region 15 p2423 N84-25560
IUE low dispersion spectra reference atlas. Part 1: Normal stars
[ESA-SP-1052-PT-1] 16 p2576 N84-26531
Imagery and spectroscopy of supernova remnants and H-2 regions
[NASA-CR-171799] 19 p3121 N84-29841
Nonthermal effects on the diagnostics of a collapsing gas shell Z-pinch
[DE84-009996] 21 p3502 N84-32199
Observations of the ultraviolet spectra of helium (DB) white dwarfs and a study of the ultraviolet spectra of white dwarfs containing carbon
[NASA-CR-173889] 22 p3677 N84-33310
Study of hot spot galaxies 24 p3971 N84-35143
The Seyfert 1 galaxy NGC 4593 (3). Very rapid variations of its far UV spectrum and their implications 24 p3971 N84-35147
MCG-2-58-22 = Mkn 926. A high luminosity Seyfert galaxy with two distinct broad line components 24 p3972 N84-35150
Multifrequency observations of three active galaxies 24 p3972 N84-35151
UV observations on the variable quasar PG 1351+64 24 p3972 N84-35153
Quasars as probes of the intergalactic medium 24 p3972 N84-35154
The interstellar absorption in the direction of some nearby A stars 24 p3972 N84-35155
Use of high resolution IUE spectra of MG 2 in cool stars to probe the local interstellar medium 24 p3973 N84-35156
Further studies of nearby high velocity interstellar gas 24 p3973 N84-35157
Interstellar lines in high resolution IUE spectra of run-away B type stars 24 p3973 N84-35160
Interstellar and nebular absorption lines in planetary nebulae 24 p3973 N84-35162
Ultraviolet fluxes of blue straggler stars 24 p3974 N84-35165
Emission lines in the UV spectrum of alpha Tau 24 p3974 N84-35168
A UV glimpse of T Tauri stars 24 p3975 N84-35174
Statistical classification of IUE stellar spectra by the Variable Procrustean Bed (VPB) approach 24 p3975 N84-35178
Spectral analysis of helium poor hot subdwarfs 24 p3976 N84-35181
The ultraviolet spectrum of stars having optical Fe 2 emission lines 24 p3977 N84-35186
Observations of extensive variability in the ultraviolet spectrum of xi Per 24 p3977 N84-35190
Coordinated X-ray and ultraviolet observations of RU Lupi 24 p3978 N84-35199
Constraints on stellar winds of cataclysmic variables derived from ultraviolet resonance lines 24 p3979 N84-35205
Two density components in symbiotic stars 24 p3979 N84-35206
Ultraviolet orbital variability of the intermediate polars — X ray sources 24 p3980 N84-35217
Periodicity searches with IUE: Studies of pulsating galactic X-ray sources 24 p3981 N84-35218
Standard stars: Automatic line identification of IUE high resolution spectra 24 p3981 N84-35225
Satellite observations of the extreme ultraviolet and far ultraviolet radiation fields 24 p3994 N84-35280
ULTRAVIOLET SPECTROGRAPHS
U ULTRAVIOLET SPECTROMETERS
ULTRAVIOLET SPECTROMETERS
NT HIGH DISPERSION SPECTROGRAPHS
Voyager observations of Saturn's rings. 1: The eccentric rings at 1.29, 1.45, 1.95 and 227 Rs 06 p0937 N84-16087
Stratospheric determination of effective photodissociation cross sections for molecular oxygen: 191-204 nm
[AD-A134168] 07 p1034 N84-16706
Stellar Ultraviolet Rocket Research Program — faint object spectrograph
[NASA-CR-175361] 08 p1242 N84-18119
Research in solar physics: Some techniques for analyzing data from the ultraviolet spectrometer and polarimeter
[NASA-CR-171035] 15 p2428 N84-25584
An extreme ultraviolet spectrometer experiment for the Shuttle Get Away Special Program 18 p2801 N84-27778
ULTRAVIOLET SPECTROSCOPY
Determination of the succinonitrile-benzene and succinonitrile-cyclohexanol phase diagrams by thermal and UV spectroscopic analysis
[NASA-TM-82581] 16 p2462 N84-25778
Morning twilight observations of the zodiacal light and terrestrial airglow 16 p2526 N84-26222
Fourth European IUE Conference
[ESA-SP-218] 24 p3970 N84-35135
IUE impact on the studies of the Zeta Aur, Algol and W Ser interacting binary systems 24 p3971 N84-35142
Ultraviolet study of the stellar population of the giant extragalactic HII region NGC 604 24 p3971 N84-35145
IUE observations of multiple nucleus galaxies 24 p3971 N84-35148
The 1978 - 1984 fading of the Seyfert 1 galaxy F-9 24 p3972 N84-35149
Coordinated X-ray and ultraviolet observations of RU Lupi 24 p3978 N84-35199
UV and optical spectroscopy of classical novae during outburst 24 p3979 N84-35202
Dwarf novae through the outburst cycle 24 p3979 N84-35203
UV and optical spectroscopy of W Serpentis objects 24 p3980 N84-35212
A study of mass accretion in Algol from high resolution IUE spectra 24 p3980 N84-35213
Observed particularities during the eclipse of Epsilon Aurigae 24 p3980 N84-35214
Egress spectra of the new eclipsing supergiant 22 Vulpeculae 24 p3980 N84-35215
Preliminary results of coordinated optical UV and X-ray observations of magnetic white dwarfs in binaries 24 p3980 N84-35216
Coordinated X-ray, ultraviolet, optical, and infrared observations of the transient source A0535+26 — X ray source 24 p3981 N84-35219
IUE integrated spectra of galactic globular clusters 24 p3982 N84-35230
ULTRAVIOLET TELESCOPES
Solar EUV, XUV and soft X-ray telescope facilities
[NASA-CR-170602] 02 p0305 N84-11999
Fine pointing control of the solar UV telescope on the sounding rocket S-520-5
[ISAS-608] 06 p0938 N84-16094
An atlas of UV spectra of supernovae
[ESA-SP-1046] 15 p2424 N84-25563
Results from Astron satellite after one year in orbit 21 p3347 N84-31233
Ultraviolet response of film candidates for the solar optical telescope photometric filtergraph
[NASA-CR-175254] 22 p3656 N84-33178
Instrumentation studies for FUSE-Columbus 24 p3982 N84-35229
UNCAMBERED WINGS
Body and canard effects on an attached-flow maneuver wing at Mach 1.62
[NASA-TP-2249] 09 p1250 N84-18163
UNCONSCIOUSNESS
NT NARCOSIS
UNDAMPED OSCILLATIONS
Nonstationary resonance oscillations 10 p1506 N84-19848
UNDERCARRIAGES
Retraction and lowering of the mirage undercarriage
[AD-A137791] 11 p1606 N84-20518
Aircraft tests in the clearance program for the use of a combat aircraft from a runway after damage repair 24 p3848 N84-34404
UNDERGROUND EXPLOSIONS
Surface wave path corrections, deterministic discrimination and body wave attenuation
[AD-A133574] 06 p0878 N84-15714
Extended-range pendulous velocity gage
[DE83-012749] 12 p1819 N84-21856
Deconvolution based on source scaling applied to teleseismic signals — nuclear explosion monitoring
[FOA-C-20514-T1] 12 p1848 N84-22046
Common data base experiment: Detection and location capacity
[FOA-C-20538-T1] 20 p3316 N84-31058
UNDERGROUND STORAGE
Geologic disposal of radioactive waste, 1983
[DE84-002890] 07 p1074 N84-16982
Role of trench caps in the shallow land burial of low level wastes
[DE84-011824] 20 p3298 N84-30944
Ambient temperature testing of the G-tunnel heated block
[DE84-009927] 20 p3298 N84-30945
UNDERGROUND STRUCTURES
Corrosion of underground pipe
[PB83-243923] 02 p0198 N84-11289
Physics at the proposed National Underground Science Facility
[DE84-001345] 04 p0488 N84-13203
Physical modeling of the champagne effect
[DE84-001813] 04 p0516 N84-13388
Dynamic behavior of underground structures 10 p1507 N84-19860
Development of concepts for corrosion assessment and evaluation of underground pipelines
[AD-A140633] 17 p2623 N84-26788
Architecture earth-sheltered buildings: Design Manual 1.4
[AD-A140831] 17 p2629 N84-26820
Method for defining the distribution of triaxial stress states in underground structures
[DE84-010591] 20 p3202 N84-30342
UNDERGROUND TRANSMISSION LINES
Service experience of EDF 20 kV XLPe insulated cable
[BLL-OA-TRANS-2633-(6196.3)] 04 p0524 N84-13448
Study of latent heat storage system used heat pipes for cooling of underground cables 20 p3170 N84-30127
UNDERWATER ACOUSTICS
A bathythermograph to sound velocity profile program for the HP-41CV calculator, including a Northern Hemisphere salinity profile library
[AD-A130761] 01 p0111 N84-10720
Hydroacoustics research in Seattle, Washington, 1967 - 1981. An annotated bibliography
[PB83-220483] 01 p0111 N84-10722
Turn-around loss for oceanic sound on a bottom slope
[AUWE-TN-705/83] 03 p0430 N84-12818
Short-range acoustic intensity vectors of the Pekeris shallow water model
[AMTE(N)-TM-83065] 03 p0430 N84-12819
The effect of noisy reflection data on an inverse method for determining the structure of a layered ocean bottom
[AD-A131976] 03 p0430 N84-12820
Transverse horizontal coherence and low-frequency array gain limits in the deep ocean
[AD-A131916] 03 p0430 N84-12821
Optimum depth of propagation in shallow water
[AD-A132182] 04 p0595 N84-13927
A survey of underwater-acoustic ray tracing techniques
[PB83-250522] 04 p0596 N84-13931
A horizontal range versus depth solution of sound source position under general sound velocity conditions using the Lloyd's mirror interference pattern
[AD-A134097] 05 p0742 N84-14875
Sound propagation through a moderate coastal upwelling: Comparison of modeling prediction with experimental data
[AD-A133782] 05 p0742 N84-14876
Focused acoustical and optical backscattering from spheres and properties of optoacoustic sources
[AD-A133744] 05 p0747 N84-14904
Program in marine physics applied to Navy undersea missions
[AD-A133119] 06 p0885 N84-15753
A review of underwater acoustic systems and methods for locating objects lost at sea
[NASA-TM-85727] 06 p0908 N84-15898
The numerical synthesis and inversion of acoustic fields using the Hankel transform with application to the estimation of the plane wave reflection coefficient of the ocean bottom
[AD-A133156] 06 p0908 N84-15901
Marine environmental acoustics
[AD-A133245] 06 p0909 N84-15902
The AMTE/OUEL underwater jet noise rig
[OUEL-1491/83] 07 p1070 N84-16953
Information technique 1982: Underwater technique
[FOA-C-30296-E1,E2,E3] 07 p1085 N84-17058

Wave propagation study of the central Mediterranean Sea using ocean bottom seismometers
[AD-A135484] 08 p1195 N84-17790
A computer program for solving the parabolic equation using an implicit finite-difference solution method and incorporating exact interface conditions
[AD-A135325] 08 p1212 N84-17903
Linear time-variant space-variant filters and the WKB approximation
[AD-A134886] 08 p1228 N84-18021
Development of an advanced ocean-bottom sensor system
[AD-A135901] 09 p1345 N84-18788
New principle of array processing in underwater passive listening 09 p1401 N84-19152
High resolution spectrum analysis by dominant mode enhancement 09 p1401 N84-19153
Underwater acoustic modeling techniques 10 p1507 N84-19864
Short term measurements of omnidirectional ambient noise in the southwest Atlantic during January 1981
[AD-A137666] 11 p1692 N84-21033
Measurements of the impulse response and reverberation underwater in the depressurized towing tank MARIN
[TPD-208.730/1] 12 p1900 N84-22374
Measurement of hydroacoustic particle motion by hot-film anemometry
[AD-A138015] 12 p1901 N84-22383
Undersea sound speed and range estimation
[AD-A138954] 13 p2040 N84-23237
The identification and inversion of acoustic multipath data at long range in the ocean
[AD-P003123] 16 p2533 N84-26264
Multiple-element threshold signal detection of underwater acoustic signals in nongaussian interference environments
[AD-A140620] 17 p2763 N84-27548
TRISTEN/FRAM IV arctic ambient noise measurements
[AD-A140656] 17 p2763 N84-27549
Acoustic attenuation in ocean sediments found in shallow water regions
[AD-A140869] 17 p2763 N84-27550
Random rays, geometric acoustics, and the parabolic wave equation
[AD-A141398] 19 p3083 N84-29568
Detection of randomly occuring signals using spectra and frequency domain kurtosis estimates
[AD-A141461] 19 p3084 N84-29573
Random field satisfying a linear partial differential equation with random forcing term
[AD-A141886] 19 p3088 N84-29606
Influence of horizontally-random bottom structure on acoustic intensity in a shallow ocean
[AD-A141383] 19 p3099 N84-29688
Analytical modeling of random thermal fluctuations in the NORDA (Naval Ocean Research and Development Activity) high-frequency sound scattering facility
[AD-A142520] 20 p3250 N84-30630
Undersea acoustic research
[AD-A142339] 20 p3291 N84-30891
On measuring the acoustic intensity of hydroacoustic sources
[AD-A142484] 20 p3291 N84-30893
Finite element prediction of acoustic scattering and radiation from submerged elastic structures 22 p3610 N84-32874
Frequency independent acoustic antenna
[AD-D011194] 24 p3963 N84-35093

UNDERWATER BREATHING APPARATUS
Development of passive diver thermal protection system
[AD-A130685] 01 p0117 N84-10762
Evaluation of a carbon dioxide scrubber in a 2-lock recompression chamber
[AD-A141052] 19 p2969 N84-26816

UNDERWATER COMMUNICATION
Transmission lines with very lossy conductors and seawater return
[AD-A130739] 01 p0065 N84-10427
Information technique 1982: Underwater technique
[FOA-C-30296-E1,E2,E3] 07 p1085 N84-17058
Advanced filter technology
[AD-A135446] 08 p1232 N84-18050
Communication system studies for the submarine laser communications system
[AD-A135661] 09 p1301 N84-18504
Background sources in optical communications
[NASA-CR-173457] 12 p1907 N84-22422

UNDERWATER ENGINEERING
Finite element prediction of acoustic scattering and radiation from submerged elastic structures 22 p3610 N84-32874

UNDERWATER EXPLOSIONS
A field of pressures of shock waves during a powerful underwater discharge
[AD-A130084] 01 p0078 N84-10510
Large amplitude waves generated by an explosive mechanism
[MRL-R-905] 08 p1155 N84-17524

UNDERWATER OPTICS
Information technique 1982: Underwater technique
[FOA-C-30296-E1,E2,E3] 07 p1085 N84-17058
A test of electroluminescent panels for a helicopter emergency escape lighting system
[AD-A139478] 14 p2103 N84-23616
Ocean optical remote sensing capability statement
[AD-A140589] 17 p2721 N84-27321

UNDERWATER PHOTOGRAPHY
Application of computer image processing to underwater surveys
[AD-P003122] 16 p2533 N84-26263

UNDERWATER PROPULSION
Advanced motor-controller development
[AD-A140299] 16 p2484 N84-25934

UNDERWATER RESEARCH LABORATORIES
The deep diving simulator TITAN: Physiological problems of stays in large water depths 17 p2745 N84-27427

UNDERWATER RESOURCES
Analysis of the world distribution of metal-rich subsea manganese nodules
[USGS-CIRC-886] 03 p0395 N84-12577
Environmental geologic studies on the United States mid- and north Atlantic outer continental shelf area, 1980-1982. Volume 1: Executive summary
[PB84-187939] 20 p3252 N84-30639

UNDERWATER SOUND
U UNDERWATER ACOUSTICS

UNDERWATER STRUCTURES
Potential inspection, maintenance and repair techniques for the OTEC (Ocean Thermal Energy Conversion) systems
[PB83-221374] 01 p0060 N84-10397
Submerged shock response of a linearly elastic shell of revolution containing internal structure. User's manual for the ELSHOK code
[AD-A131282] 03 p0389 N84-12534
Heron, volume 28, no. 1, 1983. Dynamic elasto-plastic model for reinforced concrete members
[PB84-109057] 08 p1172 N84-17635
Underwater shock-induced responses of submerged cylindrical structures
[AD-A139072] 13 p2002 N84-22987
Nonlinear analysis of a bolted marine riser connector using NASTRAN substructuring 22 p3610 N84-32875

UNDERWATER TESTS
Multidirectional force and moment transducer
[REPT-5211901-80-1] 17 p2629 N84-26815
Pressure compensated force transducer — for fishing nets 17 p2629 N84-26817
The deep diving simulator TITAN: Physiological problems of stays in large water depths 17 p2745 N84-27427

UNDERWATER VEHICLES
NT SUBMARINES
NT UNDERWATER RESEARCH LABORATORIES
Optimum forebody shaping for axisymmetric submersibles with turbulent boundary layers and BLO (Boundary Layer Control) afterbodies
[AD-A130950] 01 p0079 N84-10515
CURV 3: Characteristics and mission applications
[AD-A140225] 17 p2629 N84-26819
FOA-SUB underwater vehicle system: A brief description of the system and its state, Spring 1984
[FOA-C-20536-E1(E3)] 19 p3003 N84-29030
Quick Deployment Vehicle (QDV)
[AD-D011060] 22 p3563 N84-32563
Release mechanism for a cylindrical object recovery device
[AD-D011183] 24 p3909 N84-34762
Cylindrical object recovery device
[AD-D011184] 24 p3909 N84-34763

UNIAXIAL STRAIN
U AXIAL STRAIN

UNIDENTIFIED FLYING OBJECTS
First UFO incident for our country
[AD-A133326] 06 p0932 N84-16058

UNIFIED FIELD THEORY
W decay in supergravity GUTS
[DE83-015144] 02 p0291 N84-11911
New particles and interactions
[DE84-001444] 05 p0745 N84-14894
Future search for grand unified theory magnetic monopoles
[DE83-009451] 06 p0926 N84-16015
Unified theory and measurements of elastic waves in polycrystalline materials 21 p3489 N84-32110
Electroweak interaction parameters
[DE84-012910] 21 p3496 N84-32159
Implications of a class of grand unified theories for large scale structure in the universe
[NASA-TM-86146] 24 p3987 N84-35240

UNIFORM FLOW
An empirical model for vortex-induced vibrations
[PB84-161157] 16 p2493 N84-25998

UNIONS (CONNECTORS)
Shaft coupling device
[AD-D011080] 21 p3413 N84-31644

UNIPHASE FLOW
U SINGLE-PHASE FLOW

UNIPOLAR TRANSISTORS
U FIELD EFFECT TRANSISTORS

UNIQUENESS
Uniqueness of connecting orbits in the equation y(3) = y2 - 1
[AD-A139261] 14 p2213 N84-24289
On the singular set and the uniqueness of weak solutions of the Navier-Stokes equations
[PREPRINT-835] 17 p2759 N84-27523
The well-posedness of the Kuramoto-Sivashinsky equation
[NASA-CR-172431] 22 p3637 N84-33053

UNIQUENESS THEOREM
Uniqueness in plane inverse problems in gravimetry and magnetometry 17 p2705 N84-27226
Uniqueness of Whittaker models for irreducible objects in Alg(Mp(k))
[MC-ZW-203/83] 19 p3092 N84-29639
Uniqueness in the Cauchy problem for second order operators with real symbols 22 p3636 N84-33045

UNITED KINGDOM
NT SCOTLAND
Fiber composite materials research in the UK: Assessment report
[AD-A132386] 04 p0492 N84-13226
The United Kingdom SATMaP program
[E84-10002] 04 p0551 N84-13627
Terminal forecast reference notebook for RAF Alconbury, England
[AD-A133835] 05 p0706 N84-14640
Proceedings of the 3rd Tripartite Conference on Submarine Medicine: France, United Kingdom and the United States
[AD-A133150] 06 p0889 N84-15777
Current work on high-grade space gyros at Ferranti in the UK 15 p2266 N84-24809
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F:: Upper Heyford RAF, UK
[AD-A140246] 16 p2530 N84-26246
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Woodbridge RAF, United Kingdom
[AD-A140247] 16 p2531 N84-26247
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Lakenheath, United Kingdom
[AD-A140248] 16 p2531 N84-26248
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Bentwaters RAF United Kingdom
[AD-A140250] 16 p2531 N84-26250
Report on a visit to England, 7-10 November 1983 — defense medical research
[FOA-C-59009-H1] 18 p2901 N84-28402

UNITED KINGDOM SATELLITES
U UK SATELLITES

UNITED NATIONS
Oversight of the Unispace and International Telecommunications Union conference
[GPO-28-104] 18 p2828 N84-27953

UNITED STATES
NT ALABAMA
NT ALASKA
NT ARIZONA
NT ARKANSAS
NT CALIFORNIA
NT COLORADO
NT CONNECTICUT
NT DELAWARE
NT FLORIDA
NT GEORGIA
NT HAWAII
NT IDAHO
NT ILLINOIS
NT INDIANA
NT IOWA
NT KANSAS
NT KENTUCKY
NT LOUISIANA
NT MAINE
NT MARYLAND
NT MASSACHUSETTS

NT MICHIGAN
NT MINNESOTA
NT MISSISSIPPI
NT MISSOURI
NT MONTANA
NT NEBRASKA
NT NEVADA
NT NEW HAMPSHIRE
NT NEW JERSEY
NT NEW MEXICO
NT NEW YORK
NT NORTH CAROLINA
NT NORTH DAKOTA
NT OHIO
NT OKLAHOMA
NT OREGON
NT PENNSYLVANIA
NT RHODE ISLAND
NT SOUTH CAROLINA
NT SOUTH DAKOTA
NT TENNESSEE
NT TEXAS
NT UTAH
NT VIRGINIA
NT WASHINGTON
NT WEST VIRGINIA
NT WISCONSIN
NT WYOMING
A proposed RF-technology R/D plan for the United States
[DE84-000843] 04 p0522 N84-13434
Census of US Civil aircraft. Calendar year 1982
[AD-A133161] 06 p0768 N84-15033
Earth science investigations in the United States Antarctic Research Program (USARP)
[PB84-119460] 09 p1336 N84-18722
A micro-computer based system to compute magnetic variation
[NASA-CR-173376] 11 p1604 N84-20506
State remote sensing (LANDSAT) programs catalog
[E84-10127] 14 p2168 N84-23985
Summary of workshops concerning regional seismic source zones of parts of the conterminous United States convened by the US Geological Survey 1979 - 1980, Golden, Colorado
[USGS-CIRC-898] 14 p2174 N84-24025
Earthquakes in the United States, April - June 1982
[USGS-CIRC-896-B] 14 p2175 N84-24026
US aeromagnetic and satellite magnetic anomaly comparisons 15 p2356 N84-25136
Commercial biotechnology: An international analysis
[PB84-173608] 16 p2535 N84-26272
Transatlantic policy divergencies: Implications for the United States
[AD-A140574] 17 p2773 N84-27606
US energy: Aviation perspective
[AD-A137766] 18 p2821 N84-27910
Symposium Proceedings: A National program for the assessment and development of the mineral resources of the United States Exclusive Economic Zone
[US-CIRC-929] 18 p2866 N84-28192
Chapter 6: The US Geological Survey program and plans in the EEZ 18 p2866 N84-28193
Panel 1A: Geologic studies related to oil and gas development in the EEZ 18 p2866 N84-28194
Panel 1B: Assessment and scientific understanding of hard mineral resources in the EEZ 18 p2866 N84-28195
Panel 2A: Offshore oil and gas technology assessment 18 p2866 N84-28196
Panel 2B: Engineering-technology assessment, hard minerals 18 p2866 N84-28197
Joint Soviet-American project for detection of gravitational waves 19 p2972 N84-28840
Advanced battery development in the US
[DE84-010505] 20 p3179 N84-30190
Sunlight probability data for select cities in the US
[DE84-000006] 20 p3247 N84-30605
US technology transfer to China
[GPO-29-567] 20 p3318 N84-31064
Climatic change and streamflow in the southwest
[DE84-012658] 21 p3432 N84-31776
US annual average wind power
[DE84-012215] 21 p3448 N84-31877
Shelf circulation studies on the northeastern United States Continental Shelf 23 p3803 N84-34111
Modernization of the US national airspace system. Foundation for the future
[AD-A144332] 24 p3853 N84-34435
UNITS OF MEASUREMENT
NT INTERNATIONAL SYSTEM OF UNITS
UNIVAC COMPUTERS
NT UNIVAC 1100 SERIES COMPUTERS
UNIVAC 1100 SERIES COMPUTERS
One solution to STAR-1100 in a dual machine environment
[DE83-017160] 11 p1704 N84-21109
UNIVERSE
Spherical simulations of large scale structure in the universe 03 p0483 N84-13052
Derivation of the properties of the cosmic background radiation from a static world model 09 p1413 N84-19244
Electromagnetic universes 11 p1757 N84-21468
Nonlinear growth of perturbations in an Einstein-De Sitter cosmology 17 p2776 N84-27624
Axions, neutrinos and strings: The formation of structure in an SO(10) universe
[NASA-TM-86139] 22 p3678 N84-33317
Implications of a class of grand unified theories for large scale structure in the universe
[NASA-TM-86146] 24 p3987 N84-35240
UNIVERSITIES
Academic science/engineering: R and D funds, fiscal year 1981(detailed statistical tables)
[PB83-226213] 01 p0160 N84-11057
USAF/SCEEE summary faculty research program (1982) research reports, volume 2
[AD-A130770] 03 p0457 N84-13009
Arizona State science, engineering and technology process
[PB83-237107] 03 p0458 N84-13016
Source header list, supplement 1
[AD-A131800] 03 p0459 N84-13024
Fiber composite materials research in the UK: Assessment report
[AD-A132366] 04 p0492 N84-13226
Joint industry/university cooperation with federally supported research facilities
[GPO-24-902] 06 p1241 N84-18115
Manufacturing information system
[AD-A137891] 11 p1641 N84-20730
Development of alternative energy science and engineering in the Caribbean
[PB84-145648] 12 p1845 N84-22026
Training acquisition personnel through a local college
[AD-P002766] 13 p2052 N84-23313
Studies of US universities' research equipment needs inconclusive
[AD-A141784] 19 p2970 N84-28821
The CECOM summer faculty research program
[AD-P003421] 20 p3270 N84-30753
Research activities. Part 1: Statements
[ISBN-3-7983-0959-0] 20 p3321 N84-31082
A study of the extent of automation in small college libraries and relationships of attitudes of library directors toward it 22 p3670 N84-33260
UNIVERSITY PROGRAM
Strengthening the government-university partnership in science
[PB83-230870] 02 p0302 N84-11979
Research reports: 1983 NASA/ASEE Summer Faculty Fellowship Program
[NASA-CR-170942] 06 p0927 N84-16022
Graduate engineering research participation in aeronautics
[NASA-CR-173849] 21 p3507 N84-32220
Research in computer science
[NASA-CR-173857] 22 p3637 N84-33056
UNLOADING
Use of microprocessor techniques in frequency measuring organs 17 p2638 N84-26876
UNMANNED SPACECRAFT
NT BIOSATELLITES
NT EXOSAT SATELLITE
NT GALILEO SPACECRAFT
NT GEODETIC SATELLITES
NT GEOS 1 SATELLITE
NT GEOS 2 SATELLITE
NT GIOTTO MISSION
NT HEAO 1
NT HEAO 2
NT HELIOS A
NT HELIOS B
NT HELIOS 1
NT HELIOS 2
NT LAGEOS (SATELLITE)
NT MARINER SPACE PROBES
NT MARINER 4 SPACE PROBE
NT MARINER 9 SPACE PROBE
NT MARINER 10 SPACE PROBE
NT MARS PROBES
NT NAVIGATION SATELLITES
NT NAVSTAR SATELLITES
NT PIONEER SPACE PROBES
NT PIONEER VENUS SPACECRAFT
NT PIONEER 10 SPACE PROBE
NT PIONEER 11 SPACE PROBE
NT SOLAR OBSERVATORIES
NT SPACE PROBES
NT VENERA SATELLITES
NT VENUS PROBES
NT VOYAGER 1 SPACECRAFT
NT VOYAGER 2 SPACECRAFT
An investigation of non-extravehicular activity (Non-EVA) on-orbit maintenance support concepts for orbiting systems
[AD-A134957] 08 p1107 N84-17199
Safety assurance of ESA spacecraft and associated equipment
[ESA-PSS-01-40-ISSUE-1] 16 p2500 N84-26039
UNSTEADY FLOW
NT OSCILLATING FLOW
Computational analyses of unsteady flow past airfoils with flapping and/or pitching motion 01 p0002 N84-10013
The calculation of steady and unsteady transonic flow in cascades
[CUED/A-TURBO/TR-118] 01 p0002 N84-10016
A new method of estimating wind tunnel wall interference in the unsteady two-dimensional flow
[AD-A130475] 01 p0004 N84-10029
On the stability of the unsteady boundary layer on a cylinder oscillating transversely in a viscous fluid
[NASA-CR-172216] 01 p0076 N84-10499
Steady and unsteady flow models for airfoils with spoiler 03 p0327 N84-12136
Calculation of unsteady flow in tubes of combustion engines with special regard to multiple branching
[REPT-82.8] 03 p0370 N84-12410
Results of a new version of the LTRAN2-NLR (LTRANV) for unsteady viscous transonic flow computations
[NLR-TR-81078-U] 03 p0374 N84-12434
Computation of three-dimensional unsteady flow in rigid and deformable curved tubes 03 p0375 N84-12440
Numerical solution of the three-dimensional unsteady Euler equations
[AD-A132034] 03 p0425 N84-12783
XTRAN2L: A program for solving the general-frequency unsteady transonic small disturbance equation
[NASA-TM-85723] 04 p0479 N84-13150
Embedded cavity drag in steady and unsteady flows
[NASA-CR-172275] 04 p0531 N84-13493
Experimental studies of unsteady phenomena in boundary layers
[AD-A133769] 05 p0680 N84-14471
Prediction of floating solid velocities in unsteady partially filled pipe flow
[PB83-259598] 05 p0682 N84-14484
Effects of wall interference on unsteady transonic flows 06 p0779 N84-15105
An assumed deviatoric stress-velocity-pressure mixed finite element method for unsteady convective, incompressible viscous flow 06 p0833 N84-15420
Unsteady pressure and force measurements associated with transonic buffeting of a two-dimensional supercritical airfoil
[AD-A133139] 06 p0844 N84-15503
Special opportunities in helicopter aerodynamics
[NASA-TM-84396] 07 p0946 N84-16138
Three-dimensional unsteady Euler equation solutions using flux vector splitting
[NASA-CR-173254] 07 p1058 N84-16857
Unsteady viscous transonic flow computations using LTRAN2-NLR code coupled with Green's lag-entrainment method
[NLR-MP-82052-U] 09 p1253 N84-18181
Design and evaluation of a pulsating-flow wind tunnel
[PB84-116086] 09 p1260 N84-18223
Unsteady boundary layers on thin bodies of revolution
[AD-A136257] 09 p1313 N84-18583
Some unsteady aerodynamic characteristics of separated and attached flow
[AD-A137070] 10 p1422 N84-19300
Turbulence generated pressure fluctuations in a class of interior flows 10 p1429 N84-19306
Model equations describing unsteady fluid motion
[DFVLR-MITT-83-17] 10 p1495 N84-19775
Numerical solution of three-dimensional unsteady transonic flow over wings including inviscid/viscous interactions
[NASA-CR-166561] 11 p1600 N84-20478
Unsteady turbulent boundary layers
[AD-A137853] 11 p1652 N84-20787
Study of unsteady turbulent boundary layers
[AD-A138156] 12 p1816 N84-21837
Improvement of dynamic characteristics of gas-static bearings 13 p1968 N84-22775
Separation flow past bodies with fixed separation sites 13 p1970 N84-22784
Theory of hypersonic three-dimensional flow of nonsteady gas stream with relaxation past thin wing with arbitrary aspect ratio 13 p1971 N84-22791

Interaction of unsteady spatial boundary layer with hypersonic flow near rapidly heated portion of surface
13 p1971 N84-22794
An algorithm for the prediction of unsteady potential flow about an arbitrary aerofoil
[GU-AERO-8306] 15 p2257 N84-24553
Behavior of cascaded airfoils under conditions of high mean loading and flow unsteadiness
[AD-A139799] 15 p2263 N84-24592
Effects of unsteady free stream velocity and free stream turbulence on stagnation point heat transfer
[NASA-CR-3804] 16 p2486 N84-25943
Canonical solutions for unsteady flow fields
[NASA-TM-85812] 16 p2486 N84-25947
A probe for direct measurements of flow direction
[DFVLR-FB-83-27] 16 p2486 N84-25948
Unsteady Flow in Turbomachines, volume 1
[VKI-LS-1984-02-VOL-1] 16 p2488 N84-25960
Unsteady flow in turbomachinery: An overview
16 p2488 N84-25961
Introduction to unsteady flow in turbomachines
16 p2489 N84-25962
Stability of pumps and compressors
16 p2489 N84-25963
Unsteady Flow in Turbomachines, volume 2
[VKI-LS-1984-02-VOL-2] 16 p2489 N84-25965
Encounters with surge 16 p2489 N84-25966
Structure of rotating stall cells. Part 1: Absolute motion 16 p2489 N84-25967
Numerical aspects of unsteady flow calculations
16 p2489 N84-25968
Surge prediction in industrial compressors
16 p2489 N84-25969
Structure of rotating stall cells. Part 2: Relative motion 16 p2490 N84-25970
Determination of the stable operating conditions of an axial flow compressor 16 p2490 N84-25971
Unsteady interactions in supersonic compressor stages 16 p2490 N84-25972
Aerodynamics of hovering 17 p2645 N84-26923
A numerical study of the 2- and 3-dimensional unsteady Navier-Stokes equations in velocity-vorticity variables using compact difference schemes
[NASA-CR-172353] 17 p2667 N84-27004
Aerodynamic instability of cable-stayed bridges: Theoretical experimental study of stall flutter
18 p2789 N84-27700
Unsteady laminar natural convection inside an annular cavity
[CFD-83/8] 18 p2838 N84-28014
User's guide to the NOZL3D and NOZLIC computer programs
[NASA-CR-159173] 19 p3020 N84-29150
Three-dimensional unsteady viscous flow analysis over airfoil sections
[NASA-CR-172368] 19 p3020 N84-29152
Unsteady aerodynamics of fast moving control surfaces
[BMFT-FB-W-84-020] 21 p3328 N84-31117
Analytical and numerical study of the flow in a shock tube with an area change at the diaphragm section
[UTIAS-TN-255] 21 p3399 N84-31563
Supersonic nonsteady flow past flat and axisymmetric pointed bodies 21 p3485 N84-32088
Unsteady transonic flow in cascades
[NASA-TM-83780] 22 p3530 N84-32351
Experience with transonic unsteady aerodynamic calculations
[NASA-TM-86278] 22 p3530 N84-32353
A linear aerodynamic analysis for unsteady transonic cascades
[NASA-CR-3833] 22 p3531 N84-32355
Measurement of skin friction in unsteady boundary layers using a flush-mounted hot-film gage
[PB84-197995] 22 p3596 N84-32773
Trends in computational capabilities for fluid dynamics
[NASA-TM-86012] 23 p3689 N84-33383
Wake profile measurements of fixed and oscillating flaps
[NASA-CR-166602] 24 p3852 N84-34428
Laser velocimeter measurements of dynamic stall — conducted in the Ames two foot wind tunnel
[NASA-CR-166603] 24 p3852 N84-34429
Flow-field measurements on an airfoil with an oscillating trailing-edge using holographic interferometry
[NASA-CR-166604] 24 p3852 N84-34430
Analysis of combustion oscillations in heterogeneous systems
[AD-A144436] 24 p3880 N84-34583

UNSTEADY STATE
An extremal-variational principle for unsteady thermal conduction applied to thermoelastic problems using finite elements
[MITT-35] 12 p1814 N84-21826
Non-steady state effects in EHL
15 p2341 N84-25051
Measurement of unsteady aerodynamic pressures
[ESA-TT-834] 19 p2959 N84-26757

UNSWEPT WINGS
NT INFINITE SPAN WINGS
NT RECTANGULAR WINGS
An experimental investigation of nacelle-pylon installation on an unswept wing at subsonic and transonic speeds
[NASA-TP-2246] 09 p1250 N84-18162

UP-CONVERTERS
Study of VUV generation by coherent resonant frequency mixing in metal vapors
[AD-A140800] 17 p2663 N84-26989

UPDRAFTS
U VERTICAL AIR CURRENTS

UPGRADING
Status of the ESA-Earthnet LANDSAT-4 TM ground processing chain 20 p3210 N84-30391

UPLINKING
A simple model for the depolarizing effects of rain and ice on Earth-satellite links in the 10 to 30 GHz frequency range
[NASA-CR-174482] 02 p0211 N84-11382
Doppler system phase transfer functions for a system with an X-band uplink and X-band and S-band downlinks
10 p1474 N84-19627
X-band uplink technology demonstration at DSS-13
16 p2479 N84-25893
High power K sub a -band transmitter for planetary radar and spacecraft uplink 22 p3572 N84-32625

UPPER AIR
U UPPER ATMOSPHERE

UPPER ATMOSPHERE
NT D REGION
NT E REGION
NT EXOSPHERE
NT F REGION
NT F 2 REGION
NT GEOMAGNETIC TAIL
NT IONOSPHERE
NT LOWER IONOSPHERE
NT MAGNETOPAUSE
NT MAGNETOSPHERE
NT MESOPAUSE
NT MESOSPHERE
NT SPORADIC E LAYER
NT THERMOSPHERE
NT TURBOPAUSE
Rocket exhaust effects as active space plasma experiments of opportunity 05 p0640 N84-14211
The 27th AFOSR (Air Force Office of Scientific Research) chemical and atmospheric sciences program review (27th)
[AD-A133718] 05 p0703 N84-14612
National Climate Program
[PB83-253278] 05 p0710 N84-14649
Papers presented at the Symposium on Upper Atmosphere Research in South Africa
[CSIR-S-325] 09 p1343 N84-18775
Upper atmosphere research at Rhodes University since 1940: A review 09 p1344 N84-18779
On the use of narrow band infrared channels to determine the outgoing long wave flux — satellite radiometry 10 p1534 N84-20051
A computer code to calculate emission and transmission of infrared radiation through non-equilibrium atmospheres
[AD-A137162] 11 p1683 N84-20980
Observations of VLF transmitter-induced depletions of inner zone electrons
[AD-A137982] 12 p1847 N84-22042
Design of a precision etalon position control system for a cryogenic spectrometer 15 p2348 N84-25093
A simplified upper atmosphere model to explain seasonal phenomena
[INPE-3071-PRE/488] 16 p2521 N84-26181
Outline of the Mu radar 17 p2691 N84-27140
Ionic reactions in the Earth's upper atmosphere
[AD-A141185] 18 p2880 N84-28283
Atomic collisions and plasma physics
[AD-A141320] 18 p2880 N84-28286
Ion makeup in upper atmosphere affected by source of X-ray radiation 19 p2973 N84-28850
Investigation of the external flow analysis for density measurements at high altitude — shuttle upper atmosphere mass spectrometer experiment
[NASA-CR-173881] 22 p3530 N84-32352
Introduction to simulation of upper atmosphere oxygen satellite exposed to atomic oxygen in low Earth orbit
24 p3863 N84-34479
The high altitude pollution program (1976 - 1982)
[AD-A144390] 24 p3917 N84-34800
Analysis and programming for research in the physics of the upper atmosphere
[AD-A144203] 24 p3919 N84-34811

UPPER IONOSPHERE
NT F REGION
NT F 2 REGION

UPPER STAGE ROCKET ENGINES
Department of Housing and Urban Development Appropriations Bill, 1984
[H-REPT-98-803] 14 p2249 N84-24508

UPPER SURFACE BLOWING
Investigation of a pneumatic thrust deflector based on circulation control technology
[AD-A128950] 11 p1652 N84-20784

UPSETTING
Mechanical properties of Mn-Al-C system alloys
[BLL-M-35432] 09 p1280 N84-18382

UPWASH
An investigation of turbulence mechanisms in V/STOL upwash flow fields
[AD-A137775] 11 p1603 N84-20498
Effect of fuselage upwash on the supersonic longitudinal aerodynamic characteristics of 2 fighter configurations
[NASA-TP-2330] 18 p2785 N84-27676

UPWELLING
U UPWELLING WATER

UPWELLING WATER
Adjustment in the oceans: The long-period tides and coastal upwelling 03 p0413 N84-12702
Sound propagation through a moderate coastal upwelling: Comparison of modeling prediction with experimental data
[AD-A133782] 05 p0742 N84-14876
The nature of microwave backscattering from water waves 06 p0870 N84-15665
The advection of submesoscale thermal features in the Alboran Sea Gyre
[AD-A133877] 06 p0884 N84-15749
A one dimensional model for the study of upwelling
[INPE-2936-RPE/445] 13 p2018 N84-23086
Artificial upwelling driven by salinity differences in the ocean
[DE84-000066] 15 p2374 N84-25244
The space-time scales of variability in oceanic thermal structure off the central California coast
[AD-A142040] 19 p3062 N84-29428

URACIL
Uracil and uridine photolysis on lunar soil
14 p2250 N84-24516

URANIUM
NT URANIUM 235
NT URANIUM 238
Contribution of LANDSAT-4 thematic mapper data to geologic exploration
[E84-10021] 02 p0237 N84-11557
Use of aircraft imagery in evaluating ground stability at open-pit uranium mines in Gas Hills, Wyoming
[DE83-903011] 03 p0401 N84-12621
Alaska's mineral resources
[DE83-016599] 03 p0401 N84-12623
Assessment of quality of data on tapes from the hydrogeochemical and stream sediment reconnaissance
[DE83-017697] 04 p0554 N84-13647
Uranium anomalies in Wyoming and parts of adjacent states. National Uranium Resource Evaluation
[DE83-005353] 06 p0666 N84-15638
Superconducting ground state of a strongly interacting electron system: UBe13
[DE84-001708] 06 p0923 N84-16003
Coupled-transport membranes for metal separations, phase 5
[PB84-127034] 09 p1286 N84-18396
Alaska's mineral resources
[DE84-006918] 14 p2170 N84-23998
On the structure of the uranium-niobium-chromium-system
[BLL-TRANS-1104-(7291.7965)] 19 p2991 N84-28954

URANIUM ALLOYS
Degradation of shape memory effect
[DE83-016586] 03 p0353 N84-12295
The effect of cooling rate from the gamma-phase on the strain-rate sensitivity of a uranium 2w/o molybdenum alloy
[QUEL-1492/83] 15 p2296 N84-24779

URANIUM COMPOUNDS
NT URANIUM FLUORIDES
NT URANIUM OXIDES

URANIUM FLUORIDES
Use of fiber optics and laser-induced fluorescence for remote measurements of UF6 in strong rotation
[DE83-014195] 01 p0088 N84-10575

URANIUM ISOTOPES
NT URANIUM 235
NT URANIUM 238

URANIUM OXIDES
Application of quantum chemistry to atmospheric chemistry — uranium oxide
[AD-A133835] 05 p0648 N84-14261

Theoretical study of the radiative and kinetic properties of selected metal oxides and air molecules
[AD-A141230] 18 p2811 N84-27847

URANIUM 235
Numerical studies of the isotope distribution in a gas centrifuge using a tapered, double-parabolic axial flow
[DE83-013011] 01 p0081 N84-10528
Aerial radiological survey of Area 11, Nevada Test Site
[DE84-000440] 04 p0554 N84-13650

URANIUM 238
Numerical studies of the isotope distribution in a gas centrifuge using a tapered, double-parabolic axial flow
[DE83-013011] 01 p0081 N84-10528

URANUS (PLANET)
NT URANUS RINGS
A radiometric Bode's Law: Predictions for Uranus
[NASA-TM-86074] 17 p2781 N84-27659
A 2:1 Commensurability in Uranus-Neptune system
19 p3120 N84-29833
Geometrical relationships of Pioneer 11 to Uranus and Voyager 2 in 1985-86
[NASA-CR-173675] 22 p3539 N84-32406

URANUS RINGS
Trapped particle absorption by the Ring of Jupiter
[NASA-CR-173919] 22 p3679 N84-33323

URBAN AREAS
U CITIES

URBAN DEVELOPMENT
Department of Housing and Urban Development, and certain independent agencies appropriations, 1984, part 2
[S-REPT-98-221-PT-2] 11 p1752 N84-21439
Department of Housing and Urban Development Appropriations Bill, 1984
[H-REPT-98-803] 14 p2249 N84-24508
Department of Housing and Urban Development-Independent Agencies Appropriation Bill, 1985
15 p2420 N84-25530
Application of LANDSAT data to the study of urban development in Brasilia
[E84-10142] 16 p2507 N84-26090
The use of an image registration technique in the urban growth monitoring
[E84-10147] 16 p2508 N84-26095
Department of Housing and Urban Development-Independent Agencies Appropriations Bill, 1985
[S-REPT-98-506] 16 p2568 N84-26476
Department of Housing and Urban Development-Independent Agencies Appropriation Act, 1985
16 p2568 N84-26480
Making appropriations for the Department of Housing and Urban Development, and for sundry independent agencies, boards, commissions, corporations, and offices for the fiscal year ending September 30, 1985, and for other purposes
[H-REPT-98-867] 17 p2772 N84-27603
Fast automatic reconnaissance in land observations images by means of analog and/or digital images
23 p3768 N84-33885

URBAN PLANNING
SPOT potential applications: An overview of the results of the simulation campaigns 03 p0396 N84-12587
Geography information systems project
[INPE-2782-PRE/348] 08 p1239 N84-18100
Department of Housing and Urban Development-Independent Agencies Appropriations Bill, 1985
[S-REPT-98-506] 16 p2568 N84-26476
Department of Housing and Urban Development-Independent Agencies Appropriation Act, 1985
16 p2568 N84-26480
Land use planning for sources of nonionizing electromagnetic radiation
[PB84-156363] 17 p2771 N84-27594

URBAN RESEARCH
Significant results from the HCMM program
05 p0696 N84-14568
Urban land use of the Sao Paulo metropolitan area by automatic analysis of LANDSAT data
[E84-10069] 07 p1020 N84-16616
The use of an image registration technique in the urban growth monitoring
[E84-10147] 16 p2508 N84-26095
Department of Housing and Urban Development-Independent Agencies Appropriations Bill, 1985
[S-REPT-98-506] 16 p2568 N84-26476
Department of Housing and Urban Development-Independent Agencies Appropriation Act, 1985
16 p2568 N84-26480
Study of annoyance due to urban automobile traffic. Annex 5: Sociological study
[NASA-TM-77515] 24 p3966 N84-35124

URBAN TRANSPORTATION
USSR report: Transportation, no. 129
[JPRS-84573] 02 p0167 N84-11094
Kinetic energy accumulator applications to electric vehicles
[SNIAS-831-422-101] 07 p1086 N84-17074
Field surveys of carbon monoxide in commercial settings using personal exposure monitors
[PB84-211291] 22 p3599 N84-32797
Workshop on Systems Analysis
[PB84-194661] 22 p3650 N84-33138
Scenario planning: Energy considerations in the long range urban transportation planning process
[DE84-013590] 22 p3677 N84-33308

UREAS
Changes in blood urea content under hypokinetic conditions 02 p0260 N84-11703
Properties of multiphase polyurethane systems
[AD-A137542] 11 p1637 N84-20703

URETHANES
Partial analysis of Insta-Foam
06 p0928 N84-16030
Aircraft seat fire blocking layers. Effectiveness and benefits under various scenarios
[AD-A140796] 17 p2603 N84-26681
Technical report on sprayable compliant coatings
[PB84-178011] 17 p2627 N84-26810
Laser induced polymerization reactions in solid propellent binders 21 p3373 N84-31403
Innovative method for the thermal cycling of large spacecraft systems 24 p3861 N84-34470

URINALYSIS
Urinary excretion of hydroxylysyl glycosides as an index of bone metabolism 23 p3808 N84-34143

URINATION
Development and marketing of a prosthetic urinary control valve system
[NASA-CR-170994] 12 p1867 N84-22168

URINE
Changes in blood urea content under hypokinetic conditions 02 p0260 N84-11703
Standard research materials: Feces and urine
08 p1205 N84-17854
Spacelab 4: Primate experiment support hardware
15 p2348 N84-25092

UROLOGY
Research opportunities in bone demineralization, phase 3
[NASA-CR-3795] 17 p2743 N84-27417

USA (UNITED STATES)
U UNITED STATES

USER MANUALS (COMPUTER PROGRAMS)
Sharp PC-1500 pocket computer solutions to composite materials formulas
[AD-A130421] 01 p0031 N84-10193
MAGNA (Materially And Geometrically Nonlinear Analysis). Part 2: Preprocessor manual
[AD-A129025] 01 p0120 N84-10782
MAGNA (Materially And Geometrically Nonlinear Analysis). Part 4. Quick-reference manual
[AD-A129026] 01 p0120 N84-10783
The NEST chemistry computer program: Operations handbook
[AD-A130215] 01 p0121 N84-10788
General 3rd Airborne antenna radiation pattern code users manual
[AD-A130359] 01 p0121 N84-10790
Stinger post hybrid simulation: Design description and users' manual
[AD-A130027] 01 p0122 N84-10791
Computer center introductory reference manual for CDC 6000
[AD-A130941] 01 p0122 N84-10797
CAMDAS (CAMAC data-acquisition system)
[DE83-014907] 01 p0124 N84-10810
The Total Library System (TLS). Volume 1: What it can do for you
[AD-A130336] 01 p0161 N84-11058
Particle impact erosion. Volume 3. User's manual chamber flowfield code (CFC) and Charring Material Ablation-Erosion (CMAE) code
[AD-A131007] 02 p0186 N84-11208
Particle impact erosion. Volume 4. User's manual erosion prediction procedure for rocket nozzle expansion region
[AD-A131008] 02 p0186 N84-11209
User's manual for SPECTROM-41: A finite-element heat transfer program
[DE83-014809] 02 p0219 N84-11439
A contribution to 3D-operational geodesy. Part 3: OPERA, a multipurpose program for operational adjustment of geodetic observations of terrestrial type
[SER-B-264-PT-3] 02 p0235 N84-11541
SPEC-DOC: A user's guide to spectrometer software
[DE83-013295] 02 p0274 N84-11790
Core graphics user's manual
[DE83-013206] 02 p0274 N84-11791
Software development and maintenance guidelines, volume 1
[DE83-902192] 02 p0274 N84-11793
APPLIB user's manual
[DE83-016236] 02 p0274 N84-11794
MAZE: An input generator for DYNA2D and NIKE2D
[DE83-016415] 02 p0274 N84-11795
Calculation of ground wave attenuation over irregular, inhomogeneous, layered media using PROGRAM WAGNER 03 p0364 N84-12369
Aeroelastic analysis for propellers - mathematical formulations and program user's manual
[NASA-CR-3729] 03 p0388 N84-12530
Submerged shock response of a linearly elastic shell of revolution containing internal structure. User's manual for the ELSHOK code
[AD-A131282] 03 p0389 N84-12534
A computer subroutine for evaluating polygamma functions for complex arguments
[AD-A131936] 03 p0420 N84-12744
User's guide for SOL/NPSOL: A FORTRAN package for nonlinear programming
[DE83-016903] 03 p0421 N84-12751
User's guide for SOL/QPSOL: A FORTRAN package for quadratic programming
[DE83-016990] 03 p0421 N84-12752
Programmer's manual for the fire safety evaluation system cost minimizer computer program
[PB83-251447] 04 p0517 N84-13395
User's manual for CABLE: A three-dimensional, finite-segment computer code for submerged and partially submerged cable systems
[AD-A132515] 04 p0579 N84-13821
A user's guide to ARSPIC: The univariate time series analysis program for autoregressive spectral information quantile identification
[AD-A132217] 04 p0581 N84-13831
FASTBUS diagnostic language users manual, version 3(74)
[DE83-017932] 04 p0581 N84-13837
T-HEMP3D user manual
[DE84-000526] 04 p0582 N84-13845
Communications network design and costing model programmers manual
[NASA-CR-168237] 05 p0666 N84-14377
Communications network design and costing model users manual
[NASA-CR-168238] 05 p0666 N84-14378
ANSR-3: General purpose computer program for nonlinear structural analysis
[PB83-251330] 05 p0694 N84-14556
Methods for improving the user-computer interface
[AD-A132657] 05 p0719 N84-14713
Computer-Aided Structural Engineering (CASE) project. User's guide: Computer program to Calculate Shear, Moment and Thrust (CSMT) from stress results of a two-dimensional finite element analysis
[AD-A134089] 05 p0726 N84-14768
A user's guide to BISAM: The bivariate data modeling program
[AD-A132722] 05 p0729 N84-14786
FSCAN-83 report and user's manual
[AD-A132740] 05 p0729 N84-14788
TREGRM-83 report and user's manual
[AD-A132874] 05 p0729 N84-14789
The MIXPAC: A subroutine package for calculating equations of state for equilibrium mixtures of materials
[DE84-002302] 05 p0730 N84-14796
User's manual for GAMNAS: Geometric and Material Nonlinear Analysis of Structures
[NASA-TM-85734] 06 p0798 N84-15200
Computer-Aided Structural Engineering (CASE) project. User's guide: Computer graphics program for generation of engineering geometry (SKETCH)
[AD-A133600] 06 p0861 N84-15611
An interactive soils information system. Users manual
[AD-A133480] 06 p0935 N84-16078
A computer program for reliability evaluation of large-scale undirected networks via polygon-to-chain reductions
[AD-A134190] 07 p1054 N84-16826
A method for designing computer support documentation
[AD-A134466] 07 p1055 N84-16831
User manual of the CATSS system (version 1.0) communication analysis tool for space station
[NASA-CR-171728] 08 p1142 N84-17431
Estimating the performance of telecommunication systems using the ionospheric transmission channel. Ionospheric communications analysis and prediction program user's manual
[PB84-111210] 08 p1147 N84-17468

TIGS (table plot interactive graphics system)--an interactive graphical system for the creation and correction of tabular data sets
[AD-A135522] 08 p1212 N84-17906
A multiple lag TMA (Target Motion Analysis) procedure with programs for the Hewlett-Packard HP-41CV, the Hewlett-Packard HP-75C, the sharp pC-1500 (TRS-80 pC and the Radio Shack TRS-80 model 100 portable computers
[AD-A134870] 08 p1213 N84-17912
Standard methods for image processing. Part 4: Operating instructions for the program system
[BMVG-FBWT-83-1] 08 p1213 N84-17915
A user's manual for Electromagnetic Surface Patch (ESP) code. Version 2: Polygonal plates and wires
[AD-A135637] 09 p1300 N84-18497
The NASTRAN theoretical manual
[NASA-SP-221(06)] 09 p1329 N84-18677
POSTOP: Postbuckled open-stiffener optimum panels, user's manual
[NASA-CR-172260] 09 p1330 N84-18682
User's guide: Interactive graphics computer program for contouring randomly spaced data
[AD-A135661] 09 p1367 N84-18927
Hewlett-Packard 7221T plotter user's manual
[AD-A135881] 09 p1368 N84-18929
The GRAPHIX library - A collection of interaction graphics routines for the Tektronix 4014
[AD-A135757] 09 p1368 N84-18932
Preliminary report on the Larch shared language
[AD-A136117] 09 p1369 N84-18939
Geostatistics software user's manual for the Geosciences Research and Engineering Department PDP 11/70 computer
[DE84-004149] 09 p1369 N84-18940
ARDS (Automated Requirements Development System) user's manual. Volume 1: Document analysis, revision
[AD-A135925] 09 p1398 N84-19128
User's manual for the DOE Technical Information Center Integrated Record Input System (IRIS)
[DE83-013074] 09 p1405 N84-19178
Economic analysis model program user's manual (Burroughs version)
[AD-A135950] 09 p1405 N84-19182
Position determination with Loran-C triplets using the Hewlett-Packard HP-57C, the Sharp PC-1500 (TRS-80 PC-2) or the Radio Shack TRS-80 model 100 portable computers
[AD-A137009] 10 p1426 N84-19327
General Electromagnetic Model for the Analysis of Complex Systems (GEMACS) user manual (version 3), volume 1
[AD-A137461] 10 p1480 N84-19669
General Electromagnetic Model for the Analysis of Complex Systems (GEMACS) engineering manual (version 3), volume 2
[AD-A137462] 10 p1480 N84-19670
General Electromagnetic Model for the Analysis of Complex Systems (GEMACS) engineering manual (version 3), volume 3
[AD-A137463] 10 p1480 N84-19671
General Electromagnetic Model for the Analysis of Complex Systems (GEMACS) computer code documentation (version 3), volume 3, part 3
[AD-A137509] 10 p1480 N84-19673
General Electromagnetic Model for the Analysis of Complex Systems (GEMACS) computer code documentation (version 3), volume 3, part 4
[AD-A137510] 10 p1480 N84-19674
DSP1, a Diffractometer Subroutine Package for PDP-8 computers
[AD-A137458] 10 p1563 N84-20241
A user-oriented microprocessor shell command language interpreter
[AD-A136809] 10 p1563 N84-20242
The Pascal Plus (PAP) preprocessor: A precompiler for a language for concurrent processing on a multiprocessor system
[EUT-82-E-130] 10 p1565 N84-20254
Description and analysis of PACAM 5 (Piloted Air Combat Analysis Model) as a tactical decision aid with a user's guide for operation at NPS
[AD-A136793] 10 p1574 N84-20313
General Electromagnetic Model for the Analysis of Complex Systems (GEMACS) computer code documentation (version 3), volume 3, part 2
[AD-A137464] 11 p1644 N84-20750
Atmospheric transmittance/radiance: Computer code LOWTRAN 6. Supplement: Program listings
[AD-A137689] 11 p1706 N84-21123
MAPPER user's manual
[DE84-003478] 11 p1708 N84-21133
CORE graphics users manual, revision 1
[DE84-004235] 11 p1708 N84-21136
MINOS 5.0 user's guide
[DE84-005640] 11 p1709 N84-21140
Architecture for a user interface management system
[DE84-003982] 11 p1710 N84-21146
The NASTRAN user's manual
[NASA-SP-222(06)] 12 p1825 N84-21899
Application of the PAFEC 75 software package --- Program for Automatic Finite Element Calculations (PAFEC)
[NPL-QU-66] 12 p1878 N84-22240
RIM as an implementation tool for a distributed heterogeneous database 12 p1890 N84-22311
Development and operation of a real-time data acquisition system for the NASA, Langley Research Center Differential Absorption Lidar
[NASA-CR-173397] 12 p1918 N84-22495
User's manual of a program to compute the distribution of photoelectrons --- atmospheric ionization
[CRPE-NT-110] 13 p2012 N84-23054
Software Engineering Laboratory (SEL) data base reporting software user's guide and system description. Volume 1: Introduction and user's guide
[NASA-TM-85606] 13 p2025 N84-23129
Software Engineering Laboratory (SEL) data base reporting software user's guide and system description. Volume 2: Program descriptions
[NASA-TM-85609] 13 p2025 N84-23130
Users guide for ERB 7 MAT (Including the first year quality control)
[NASA-CR-170514] 13 p2026 N84-23134
Generalized monitoring facility. Users manual. Change 7
[AD-A136533] 13 p2028 N84-23151
User manual for driver program
[AD-A139028] 13 p2029 N84-23156
Users' manual for computer program for three-dimensional analysis of coupler-cavity traveling wave tubes
[NASA-CR-168269] 14 p2141 N84-23841
User's guide for COMBIMAN programs (Computerized Biomechanical Man-Model), version 6
[AD-A139138] 14 p2184 N84-24086
Interactive signal synthesis system user's guide
[AD-A139594] 14 p2206 N84-24238
PDSS/IMC qualification test user's manual --- payload development support system image motion compensator
[NASA-CR-171025] 15 p2389 N84-25334
Interactive computer program VISION 4 (visual information system interactive online for FOA 4) for plotting and data analysis
[FOA-C-40182-A3,B2,C2] 15 p2390 N84-25342
A computer package for designing pH regulation systems 15 p2391 N84-25344
The MOSIS (MOS implementation) system (What it is and how to use it)
[AD-A139744] 15 p2418 N84-25517
Mathematical modelling of a continuum. Related modal analysis. Part 3: Programmer's manual
[ESA-CR(P)-1862-VOL-3] 16 p2553 N84-26377
User's guide for ERB 7 SEFDT. Volume 1: User's guide. Volume 2: Quality control report, year 1
[NASA-CR-170616] 16 p2581 N84-26553
Turbofan engine technology evaluation system, user's guide
[AD-A140781] 17 p2609 N84-26704
Airfield delay simulation model (ADSIM) users guide
[PB84-171552] 17 p2611 N84-26715
Microcomputer and mythology: Procrustean assignments
[INPE-3012-PRE/455] 17 p2749 N84-27449
HP-41C programs and instructions for probability and statistics
[AD-A140573] 17 p2752 N84-27468
PAN AIR: A computer program for predicting subsonic or supersonic linear potential flows about arbitrary configurations using a high order panel method. Volume 2: User's manual (version 1.1)
[NASA-CR-3252] 18 p2788 N84-27696
COSAL: A black-box compressible stability analysis code for transition prediction in three-dimensional boundary layers
[NASA-CR-165925] 18 p2836 N84-28002
User's manual for SAC-3: A 3-dimensional nonlinear, time dependent soil analysis code using the bounding surface plasticity model
[AD-A137782] 18 p2853 N84-28114
Verification of the plate element with bending (element 11) of the program OPTIMA
[IWECO-5074403-83-2] 18 p2854 N84-28121
Development of an AFIT (Air Force Institute of Technology) ADP system network model
[AD-A141253] 18 p2917 N84-28496
NEMAR plotting computer program
[NASA-CR-165831] 18 p2920 N84-28516
An implementation of the programming structural synthesis system (PROSSS)
[NASA-TM-83180] 18 p2920 N84-28517
PASCAL statistical procedures package (PSPP)
[AD-A141049] 18 p2921 N84-28524
LCAP2 (Linear Controls Analysis Program). Volume 2: Interactive LCAP2 user's guide
[AD-A141145] 18 p2924 N84-28542
NIMBUS observation processing system requirements NG-13. ERB master archival. Tape specification no. T134081 ERB Mat, revision 1
[NASA-TM-85388] 18 p2944 N84-28668
User's guide to the NOZL3D and NOZLIC computer programs
[NASA-CR-159173] 19 p3020 N84-29150
A numerical simulation of the dispersal of aerial sprays
[NASA-CR-165816] 19 p3020 N84-29151
Microcomputer-based graphical linear programming package
[AD-A141094] 19 p3075 N84-29508
Interactive Signal and Pattern Analysis and Recognition Systems (ISPARS). Users' guide
[AD-A141421] 19 p3075 N84-29514
LCAP2 (Linear Control Analysis Program). Volume 1: Batch LCAP2 user's guide
[AD-A141486] 19 p3076 N84-29517
Area equivalent method VISICALC (trade name). Users' guide
[AD-A141430] 19 p3084 N84-29572
Operations manual for the data acquisition and reduction system, Area III Actuator Test Facility
[DE84-008906] 19 p3116 N84-29803
A simulation program with latency exploitation for the transient analysis of digital circuits
[AD-A142377] 20 p3177 N84-30181
A users manual for the laser welding code WELD2D
[DE84-011167] 20 p3197 N84-30306
Intermediate-range grid model and user's guide for atmospheric sulfur dioxide and sulfate concentrations and depositions: Wisconsin Power Plant Impact Study
[PB84-189257] 20 p3238 N84-30556
Network repair level analysis model user's guide
[AD-A141991] 20 p3269 N84-30743
Linear systems analysis program user's manual, version 2.2 (VAX/VMS)
[DE84-012230] 20 p3275 N84-30789
Extensions and modifications to the ARL point-performance program
[AD-A142078] 21 p3328 N84-31113
The APL RCS (Radar Cross Section)/statistics code description, illustrations of output, and user's guide
[AD-A142929] 21 p3386 N84-31490
A method to combine remotely sensed and in situ measurements: Program documentation
[E84-10172] 21 p3426 N84-31735
Pilot climate data system user's guide
[NASA-TM-86084] 21 p3463 N84-31958
User's guide for ERB 7 matrix. Volume 1: Experiment description and quality control report for year 1
[NASA-CR-170619] 21 p3464 N84-31960
Automated Construction Management System (ACMS). Volume 1: User's guide
[AD-A143031] 21 p3465 N84-31971
User's guide: Computer program for analysis of two-dimensional beam-columns with nonlinear supports (CBNTBM)
[AD-A143170] 21 p3466 N84-31974
User's guide to Sphere and Plate Interactive Display Routine (SPIDR)
[DE84-012855] 21 p3466 N84-31976
DYNA3D user's manual. Nonlinear dynamic analysis of solids in three dimensions, revision 1
[DE84-012828] 21 p3466 N84-31979
NLM (National Library of Medicine) Online Services Reference Manual: Supplement
[PB84-186808] 21 p3520 N84-32300
Mathematical model of electrostatic precipitation (revision 3). Volume 2: User's manual
[PB84-212667] 22 p3549 N84-32470
COSMIC/NASTRAN free-field input 22 p3609 N84-32665
VORCAM: A computer program for calculating vortex lift effect of cambered wings by the suction analogy
[NASA-CR-165800] 23 p3690 N84-33367
The CMC/3DPNS computer program for prediction of three-dimension, subsonic, turbulent aerodynamic juncture region flow. Volume 2: Users' manual
[NASA-CR-165997] 23 p3746 N84-33749
PCMSOL-1: A computer simulation code for a direct gain passive solar structure. Part 2: PCMSOL-1 users guide
[ORNL/CSD-127/P-2] 23 p3790 N84-34040
Software Implemented Fault-Tolerant (SIFT) user's guide
[NASA-TM-86289] 23 p3817 N84-34199
A users guide to KLYSMA 2: A multifluid transport code
[AD-A143784] 23 p3828 N84-34278

Ada (trademark) training curriculum. Advanced Ada Topics 1305, teacher's guide exercises
[AD-A144497] 24 p3947 N84-34993

Ada (trademark) training curriculum. Advanced Ada Topics 1305, teacher's guide exercises, volume 1
[AD-A144498] 24 p3947 N84-34994

Ada (trademark) training curriculum. Advanced Ada Topics 1305, teacher's guide exercises, volume 2
[AD-A144499] 24 p3947 N84-34995

USER REQUIREMENTS

Space shuttle launch vehicle aerodynamic uncertainties: Lessons learned 01 p0019 N84-10118

Nationwide computer users' information retrieval system 01 p0118 N84-10767

Airport and air traffic control system. Executive summary 03 p0329 N84-12144

The Boeing flywheel study 03 p0344 N84-12235

Telecommunications (selected articles)
[AD-A131872] 03 p0361 N84-12346

Computer system design environment software development plan
[AD-A131651] 03 p0420 N84-12747

User's guide to Sandia TEX
[DE83-016763] 04 p0582 N84-13840

Methods for improving the user-computer interface
[AD-A132657] 05 p0719 N84-14713

Ada and the NASA software environment 05 p0724 N84-14749

Factors affecting specifications for computer software programs
[AD-A133070] 05 p0730 N84-14792

Enhancement and verification of the Navy CASEE model (Calendar year 1982 task)
[AD-A133077] 05 p0730 N84-14793

Modeling the user in intelligent user interfaces
[DE84-012664] 05 p0730 N84-14795

The aircraft infrared measurements guide
[AD-A132598] 05 p0747 N84-14905

The determination of user information requirements during the development of management information systems
[AD-A132998] 05 p0759 N84-14980

Towards a modularity of software conceived for the requirement of the user 06 p0769 N84-15040

The creation of the NLR benchmark package and the performance of two new CDC computers with it
[NLR-MP-82015-U] 06 p0896 N84-15819

Local automation model: Functional description
[AD-A133389] 06 p0935 N84-16077

Satellite communications for the Pacific Islands. Second year report
[NASA-CR-173171] 07 p0986 N84-16388

Operational test and evaluation of the meter engineering development model
[AD-A125166] 07 p1007 N84-16532

A method for designing computer support documentation
[AD-A134466] 07 p1055 N84-16831

Status and future of the use of numerical and factual data 07 p1066 N84-17060

Types of technical content of data 07 p1066 N84-17061

Extraction and compilation of numerical and factual data 07 p1066 N84-17063

The evaluation/validation process: Practical considerations and methodology for the evaluation of phenomenological data 07 p1066 N84-17064

The evaluation/validation process: Data from disciplines resting on good theoretical foundations 07 p1066 N84-17065

Dissemination of data and information 07 p1066 N84-17066

Data organisations and their management 07 p1067 N84-17069

Look at techniques for the dimensional calibration of standard microscopic particles
[PB84-112648] 08 p1126 N84-17324

Space station needs, attributes and architectural options study. Final review executive summary briefing
[NASA-CR-173674] 09 p1267 N84-18272

Space Station Technology, 1983
[NASA-CP-2293] 09 p1268 N84-18277

Systems/operations technology 09 p1268 N84-18278

Crew and life support: EVA 09 p1268 N84-18279

Human capabilities 09 p1268 N84-18282

Thermal control 09 p1269 N84-18289

Space station needs, attributes and architectural options. Volume 1, attachment 1: Executive summary NASA
[NASA-CR-173337] 09 p1270 N84-18293

Space Station needs, attributes and architectural options. Volume 2, book 1, part 2, task 1: Mission requirements
[NASA-CR-173313] 09 p1270 N84-18297

Space Station needs, attributes and architectural options. Volume 2, book 1, part 4: Payload element mission data sheets
[NASA-CR-173315] 09 p1270 N84-18299

User centered system design
[AD-A136131] 09 p1364 N84-18907

Study of a tracking and data acquisition system for the 1990's. Volume 1: User community characteristics
[NASA-CR-175194] 10 p1433 N84-19370

Protocol software for a packet voice terminal
[AD-A136936] 10 p1481 N84-19678

Technical information support for survivability 10 p1508 N84-19868

Guide to the development of a human factors engineering data retrieval system
[AD-A136918] 10 p1554 N84-20187

Issues in interaction language specification and representation
[AD-A136943] 10 p1555 N84-20188

The behavioral demonstrator: A requirements specification executor
[AD-A136944] 10 p1555 N84-20189

The DFVLR main department for central data processing, 1976 - 1983
[NASA-TM-77314] 10 p1556 N84-20196

Computing confidences in tactical rule-based systems by using Dempster-Shafer theory
[AD-A137274] 10 p1562 N84-20237

Research on interactive acquisition and use of knowledge
[AD-A137436] 10 p1568 N84-20270

LORAN-C signal stability study: Northeast and southeast U.S.
[AD-A137628] 11 p1604 N84-20506

Advanced technology satellites in the commercial environment. Volume 1: Executive summary
[NASA-CR-174635-VOL-1] 11 p1621 N84-20611

Advance technology satellites in the commercial environment, volume 2
[NASA-CR-174635-VOL-2] 11 p1621 N84-20612

New quality assessment procedure for exchange area cable transmission parameters 11 p1720 N84-21218

The Application of New Technologies to Improve the Delivery of Aerospace and Defence Information
[AGARD-CP-357] 11 p1750 N84-21425

The iNet Gateway trial 11 p1750 N84-21427

Graphic and visual presentation of aerospace date 11 p1751 N84-21431

Enhancement and verification of the Navy CASEE (Comprehensive Aircraft Support Effectiveness Evaluation) model (calendar year 1983 task)
[AD-A138516] 12 p1784 N84-21505

Pacific Basin Communications Study, volume 1
[NASA-CR-173173] 12 p1805 N84-21767

Pacific Basin Communication Study, volume 2
[NASA-CR-173174] 12 p1805 N84-21768

Photovoltaic energy systems
[DOE/CE-0033/1] 12 p1838 N84-21979

ECUT: Energy Conversion and Utilization Technologies program. Heterogeneous catalysis modeling program concept
[NASA-CR-173483] 12 p1842 N84-22012

User-friendly interface to the Roth relational database
[AD-A138153] 12 p1877 N84-22234

Dipole aperture and superconductor requirements
[DE84-006011] 12 p1916 N84-22483

Human factors aspects of C3 systems — command, control, communication (C3)
[PP-119] 13 p2023 N84-23115

Software engineering for user interfaces
[AD-A138937] 13 p2029 N84-23155

Corporate DP planning: New approaches and new concerns — data processing (DP)
[PNR-90180] 13 p2064 N84-23386

Software improvement process: Its phases and tasks. Part 1: Text. Part 2: Appendices
[PB84-162460] 14 p2206 N84-24242

Space station needs attributes and architectural options study costing working group briefing
[NASA-CR-173517] 15 p2265 N84-24601

Space station needs, attributes and architectural options study. Briefing material, mid-term review
[NASA-CR-173536] 15 p2279 N84-24692

Multi-models to increase accuracy 15 p2359 N84-25154

Second-generation Meteosat: System study, executive summary
[ESA-SP-1063] 15 p2371 N84-25224

Computer science and technology: Selection of microcomputer systems
[PB84-167725] 15 p2389 N84-25331

Interactive creation of instructions for interactive graphic analysis (INGA)
[ISD-300] 15 p2390 N84-25337

Data exchange and transfer structures
[SNIAS-832-111-103] 15 p2391 N84-25347

Solid modeling at SNIAS
[SNIAS-832-111-106] 15 p2391 N84-25348

A knowledge-based system for LP (Linear Programming) modeling
[AD-A139991] 15 p2392 N84-25357

APL (A Programming Language) TUTOR: An on-line instructional facility
[AD-A140117] 15 p2393 N84-25359

Material and process selection and quality control for ESA spacecraft and associated equipment
[ESA-PSS-01-70-ISSUE-2] 16 p2500 N84-26040

An analysis of naval aviation configuration status accounting
[AD-A140473] 16 p2565 N84-26460

The ROE file system
[AD-A140497] 16 p2567 N84-26473

Are we giving aircraft integrated data systems users the best information in the best way at the best time? 17 p2585 N84-26566

Americal National Standard X3.102 user reference manual — data communication systems and services
[PB84-155571] 17 p2654 N84-26977

A player's manual for a complex disaster decision simulation
[AD-A140776] 17 p2747 N84-27438

Space station needs, attributes, and architectural options: Commercial opportunities in space
[NASA-CR-173698] 18 p2803 N84-27788

Space station needs, attributes, and architectural options: Space station program cost analysis
[NASA-CR-173696] 18 p2803 N84-27790

Space station needs, attributes and architectural options study. Volume 7-1: Data book. Science and applications missions
[NASA-CR-173702] 18 p2804 N84-27795

Space station needs, attributes and architectural options study. Volume 7-1: Data book. Science and applications missions
[NASA-CR-173700] 18 p2804 N84-27796

Space station needs, attributes and architectural options study. Volume 7-2: Data book. Commercial missions
[NASA-CR-173719] 18 p2804 N84-27797

A study of space station needs, attributes and architectural options. Volume 1: Executive summary
[NASA-CR-173705] 18 p2805 N84-27803

A study of space station needs, attributes and architectural options. Volume 2: Technical. Book 1: Mission requirements. Appendixes 1 and 2
[NASA-CR-173769] 18 p2805 N84-27805

Space station needs, attributes, and architectural options. Volume 1. Executive summary
[NASA-CR-173710] 18 p2806 N84-27816

Space station needs, attributes and architectural options: Midterm review, executive overview
[NASA-CR-173707] 18 p2806 N84-27818

Current and future graphics requirements for LaRC and proposed future graphics system
[NASA-TM-85726] 18 p2917 N84-28495

GDR robotron office computers 18 p2918 N84-28502

Considerations on command and response language features for a network of heterogeneous autonomous computers
[NASA-TM-86089] 18 p2923 N84-28535

Satellite aided navigation (INNAVSAT)
[BMFT-FB-W-84-003] 19 p2962 N84-28772

Development of Integrated Programs for Aerospace-vehicle Design (IPAD). IPAD user requirements: Implementation (first-level IPAD)
[NASA-CR-162713] 19 p2963 N84-28776

Tools for specification validation and understanding
[AD-A141079] 19 p3074 N84-29506

SREM (Software Requirements Engineering Methodology) evaluation, volume 1
[AD-A141631] 19 p3077 N84-29525

SREM (Software Requirements Engineering Methodology) evaluation. Volume 2: Specifications and technical data
[AD-A141632] 19 p3078 N84-29526

Acoustic design criteria and validation 19 p3096 N84-29663

MIL-STD-1750A users group
[AD-P003547] 21 p3333 N84-31151

APSE database user scenario
[AD-P003593] 21 p3341 N84-31198

Accounting utility for determining individual usage of production level software systems
[NASA-CR-172414] 21 p3464 N84-31959

Automated Construction Management System (ACMS). Volume 2: Program documentation
[AD-A143032] 21 p3466 N84-31972

User-friendly software: The role of the user
[AD-P003489] 21 p3514 N84-32256

Autonomous Integrated Receive System (AIRS) requirements definition. Volume 4: Functional specification for the prototype Automated Integrated Receive System (AIRS)
[NASA-CR-175264] 22 p3576 N84-32649
Langley experience with ADABAS/NATURAL
22 p3671 N84-33272
Space station program description document. Books 1-7
[NASA-TM-86652-BK-1-7] 23 p3698 N84-33437
Space station program description document: Introduction and summary, book 1
[NAS 1.15:86652-BK-1] 23 p3698 N84-33438
Mission description document, book 2
[NAS 1.15:86652-BK-2] 23 p3698 N84-33439
Detonation parameters for Australian high-explosives composition
[AD-A143655] 23 p3726 N84-33809
Advice for windpower users 23 p3786 N84-34010
Trends in Planetary Data Analysis. Executive summary of the Planetary Data Workshop
[NASA-CP-2333] 23 p3841 N84-34363
User requirements 23 p3841 N84-34368
Space Station Needs, Attributes and Architectural Options. Contractor orientation briefings
[NASA-CR-173999] 24 p3859 N84-34460
Ada training curriculum. Introduction to software engineering, M102. Teacher's guide: Exercises
[AD-A144237] 24 p3945 N84-34981
CEMA computer cooperation, problems described: Application of British technology
24 p3960 N84-35078
CEMA computer hardware cooperation
24 p3960 N84-35079

UTAH
Land use inventory of Salt Lake County, Utah from color infrared aerial photography 1982
[E84-10015] 02 p0237 N84-11553
Contribution of LANDSAT-4 thematic mapper data to geologic exploration
[E84-10021] 02 p0237 N84-11557
Water resources data for Utah, water year 1982
[PB84-120484] 09 p1340 N84-18756
Impact of Upheaval Dome, Utah
13 p2078 N84-23465
Enviropod handbook: A guide to preparation and use of the Environmental Protection Agency's light-weight aerial camera system --- Weber River, Utah
[E84-10123] 14 p2168 N84-23982
EPA Enviropod. A summary of the use of the Enviropod under a Memorandum of Understanding among EPA Region 8, the State of Utah, and the University of Utah Research Institute
[E84-10124] 14 p2168 N84-23983
Identifying environmental features for land management decisions
[E84-10125] 14 p2168 N84-23984
Evaluation of LANDSAT-D Thematic Mapper performance as applied to hydrocarbon exploration
[E84-10154] 19 p3038 N84-29275
Temperature profiles from Salt Valley, Utah
[DE84-900996] 21 p3444 N84-31854
Diagenesis and deformation of the Madison Group, Colorado and Utah overthrust belt
22 p3620 N84-32938

UTILITIES
Development of a cesium-vapor-lamp system for triggering photothyristors --- for power conversion applications in electric utility substations
[DE83-902691] 02 p0215 N84-11407
Acoustical measurements of DOE/NASA MOD-0 wind turbine at Plum Brook Station, Ohio
[DE83-011971] 02 p0242 N84-11584
Integrated powerplant control systems and potential performance benefits 03 p0316 N84-12063
Analysis of lead-acid battery accelerated testing data
[DE83-017403] 04 p0528 N84-13473
Method for determining how to operate and control wind turbine arrays in utility systems
[DE84-005817] 12 p1813 N84-21817
Small wind systems field evaluation. Volume 1: Executive summary and program description
[DE84-006916] 12 p1844 N84-22023
Small wind systems field evaluation. Volume 2: Institutional issues
[DE84-006913] 12 p1844 N84-22024

UTILITY AIRCRAFT
NT C-140 AIRCRAFT
NT U-2 AIRCRAFT
NT UH-1 HELICOPTER
NT UH-60A HELICOPTER
Gust response of a light, single-engined, high-wing aircraft
[AD-A131033] 01 p0013 N84-10061

UTILIZATION
NT COAL UTILIZATION
NT GEOTHERMAL ENERGY UTILIZATION
NT LASER APPLICATIONS
NT LASER CUTTING
NT LASER FUSION
NT REUSE
NT WASTE ENERGY UTILIZATION
NT WASTE UTILIZATION
NT WINDPOWER UTILIZATION
Important CAD/CAM utilization at MBB
[MBB-Z-13-83-O] 16 p2564 N84-26451
Airship proof-of-concept evaluation
[AD-A141759] 19 p2959 N84-28753
Lead 19 p2992 N84-28959
Fluorspar 19 p3053 N84-29375
Proceedings of the Antenna Applications Symp., volume 2
[AD-A142754] 21 p3383 N84-31467
Rare-earth metals and their applications in aviation
[AD-A144410] 24 p3884 N84-34607

UV LASERS
U ULTRAVIOLET LASERS

V

V BAND
U EXTREMELY HIGH FREQUENCIES

V/STOL AIRCRAFT
NT C-15 AIRCRAFT
NT FLYING PLATFORMS
NT H-60 HELICOPTER
NT HEAVY LIFT HELICOPTERS
NT HELICOPTERS
NT MILITARY HELICOPTERS
NT RIGID ROTOR HELICOPTERS
NT ROTARY WING AIRCRAFT
NT SH-3 HELICOPTER
NT SHORT TAKEOFF AIRCRAFT
NT TILT ROTOR AIRCRAFT
NT UH-1 HELICOPTER
NT UH-60A HELICOPTER
NT VERTICAL TAKEOFF AIRCRAFT
NT XV-15 AIRCRAFT
Development of V/STOL methodology based on a higher order panel method
[NASA-CR-166491] 01 p0004 N84-10024
V/STOL (Vertical/Short Takeoff and Landing) low speed and transition equivalent systems analysis
[AD-A131955] 03 p0330 N84-12156
Flow visualization and interpretation of visualization data for deflected thrust V/STOL nozzles
[NASA-TM-83554] 05 p0631 N84-14147
Analytical study of blowing boundary-layer control for subsonic V/STOL inlets
[NASA-TM-83576] 07 p0946 N84-16141
A lifting surface computer code with jet-in-crossflow interference effects. Volume 1: Theoretical description
[NASA-CR-166524] 07 p0947 N84-16147
An investigation of turbulence mechanisms in V/STOL upwash flow fields
[AD-A137775] 11 p1603 N84-20496
V/STOL concepts in the United States: Past, present, and future
[NASA-TM-85936] 13 p1926 N84-22532
Assessment of aerodynamic performance of V/STOL and STOVL fighter aircraft
[NASA-TM-85937] 13 p1926 N84-22536
V/STOL maneuverability and control
[NASA-TM-85939] 13 p1935 N84-22584
Use of helicopters to develop operational concepts for V/STOL (vertical and short takeoff and landing) aircraft in naval missions
[AD-A139354] 14 p2105 N84-23624
V/STOL model fan stage rig design report
[NASA-CR-174688] 14 p2106 N84-23629
High performance composites and adhesives for V/STOL aircraft
[AD-A139168] 14 p2119 N84-23702
V/STOL wind-tunnel testing
[NASA-TM-85936] 15 p2253 N84-24528
Tandem fan applications in advanced STOVL fighter configurations
[NASA-TM-83689] 15 p2261 N84-24579
Supersonic STOVL aircraft with turbine bypass/turbo-compressor engines
[NASA-TM-83686] 15 p2261 N84-24582
Special Course on V/STOL Aerodynamics
[AGARD-R-710] 16 p2436 N84-25625
Introduction and review of some jet interference phenomena relevant to V/STOL aircraft
16 p2436 N84-25626
The influence of V/STOL on wing design and tailplane design
16 p2436 N84-25627
V/STOL concepts in the United States: Past, present, and future
16 p2436 N84-25628
Layout considerations and types of V/STOL aircraft
16 p2436 N84-25629
V/STOL propulsion system aerodynamics
16 p2436 N84-25630
Jet flowfields 16 p2437 N84-25631
V/STOL maneuverability and control
16 p2437 N84-25632
V/STOL wind-tunnel testing 16 p2437 N84-25633
Ground based testing without wind tunnels
16 p2437 N84-25634
Aerodynamics of V/STOL aircraft: Performance assessment 16 p2437 N84-25635
Assessment of aerodynamic performance of V/STOL and STOVL fighter aircraft 16 p2437 N84-25636
Notes on special flight aspects, such as STO, ski-jump and ODM 16 p2437 N84-25637
A numerical study of the controlled flow tunnel for a high lift model 16 p2452 N84-25721
Advanced prediction technique for the low speed aerodynamics of V/STOL aircraft. Volume 1: Technical discussion
[NASA-CR-166442-VOL-1] 17 p2600 N84-26682
Study of aerodynamic technology for single-cruise-engine VSTOL fighter/attack aircraft, phase 1
[NASA-CR-166266] 18 p2788 N84-27693
Study of aerodynamic technology for single-cruise engine V/STOL fighter/attack aircraft
[NASA-CR-166271] 19 p2956 N84-28737
Study of aerodynamic technology for single-cruise-engine V/STOL fighter/attack aircraft
[NASA-CR-166270] 19 p2956 N84-28738
Study of aerodynamic technology for single-cruise-engine V/STOL fighter/attack aircraft
[NASA-CR-166269] 19 p2961 N84-28767

VACANCIES (CRYSTAL DEFECTS)
Fourth Europhysical Conference on Lattice Defects in Ionic Crystals
[AD-A132367] 04 p0612 N84-14039
Hoet-lattice effects in the spin-orbit fine structure of vacancy-trapped electrons
[DE84-000599] 04 p0614 N84-14052
Neutron cross sections for defect production by high-energy displacement cascades in copper
[DE84-002116] 07 p1083 N84-17045
Fundamental radiation damage processes in silicon
[AD-A136033] 09 p1396 N84-19119

VACUUM
NT HIGH VACUUM
NT ULTRAHIGH VACUUM
Electrothermal production of magnesium
[CSIR-TRANS-1679] 01 p0039 N84-10250
Coherent propagation and sum frequency generation into the vacuum ultraviolet
[AD-A130729] 01 p0066 N84-10428
A ground test measurement system for the shuttle entry air data system
[NASA-TM-85707] 02 p0184 N84-11193
Vacuum outgassing of various materials
[DE84-001449] 04 p0495 N84-13247
Low-cycle fatigue behavior of oxygen-free high-conductivity copper at 300OC in high vacuum
[DE84-000725] 04 p0504 N84-13305
Generation of coherent, vacuum ultraviolet and extreme ultraviolet radiation 05 p0665 N84-14370
Observations on the vanadium-nitrogen system and on pure metallic vanadium
[CSIR-TRANS-1708] 06 p0805 N84-15243
Progress in polycrystalline thin-film solar cells
[DE83-012131] 06 p0875 N84-15691
An assessment of the benefits of using infrared thermography to measure the temperature of discrete electronic components operating in a vacuum
[AD-A134350] 07 p0997 N84-16465
Vacuum outgassing of various materials
[DE84-004812] 11 p1626 N84-20644
The Lorentz Transformation and the radar Doppler equation
[AD-A137901] 11 p1643 N84-20745
Ion plating of coatings made from high melting point metals
[BLL-RISLEY-TRANS-4879] 12 p1796 N84-21715
Discharge of ideal gas into vacuum
13 p1970 N84-22785
On the scattering of electromagnetic waves by perfectly conducting bodies moving in vacuum. Part 2: Scattering by stationary perfect conductors
[AD-A141548] 19 p3005 N84-29047
On the scattering of electromagnetic waves by perfectly conducting bodies moving in vacuum. Part 5: A description of motion and deformation retardation of sets and functions
[AD-A141549] 19 p3005 N84-29048

On the scattering of electromagnetic waves by perfectly conducting bodies moving in vacuum. Part 3: Representations of sufficiently smooth solutions of Maxwell's equation and of the scattering program
[AD-A141584] 19 p3005 N84-29050
On the scattering of electromagnetic waves by perfectly conducting bodies moving in vacuum. Part 1: Formulation and reformulation of the scattering problem
[AD-A141746] 19 p3006 N84-29051
On the scattering of electromagnetic waves by perfectly conducting bodies moving in vacuum. Part 6: Manifolds in Euclidean spaces, regularity properties of domains
[AD-A141748] 19 p3006 N84-29053
Plasma studies on ion diodes
[AD-A142183] 19 p3107 N84-29743
Resonance ionization spectroscopy of argon, krypton and xenon using vacuum ultraviolet light
[DE84-011655] 20 p3150 N84-30006
Effect of external pressure environment on the internal noise level due to a source inside a cylindrical tank
[NASA-TM-85814] 21 p3346 N84-31226
Hard Coatings for Tribological Systems Operating under Extreme Conditions
[DE84-009660] 21 p3368 N84-31369
A review of anode phenomena in vacuum arcs
[DE84-012371] 21 p3395 N84-31547

VACUUM APPARATUS
NT BAYARD-ALPERT IONIZATION GAGES
NT ION PUMPS
NT KNUDSEN GAGES
NT VACUUM CHAMBERS
NT VACUUM FURNACES
NT VACUUM PUMPS
Optical multiple sample vacuum integrating sphere
[NASA-CASE-GSC-12849-1] 06 p0917 N84-15960
Certain features of a vacuum magnetic-impulse welding process 12 p1787 N84-21656
Atomic hydrogen for low temperature atomic hydrogen masers and in-vacuum dissociators for VLG-11 series masers
[NASA-CR-173506] 14 p2150 N84-23880
Product assurance requirements for micro VCM-apparatus and associated equipment
[ESA-PSS-01-711-ISSUE-1] 16 p2496 N84-26013

VACUUM CHAMBERS
Laboratory measurement of impact ionization 08 p1118 N84-17271
IRSIM: A program for the calculation of infrared flux intensity incident on a spacecraft inside a test chamber 10 p1440 N84-19400
Thermal cycling tests in space environment simulation chambers 10 p1440 N84-19401
Thermal vacuum test facility
[AD-A137712] 11 p1620 N84-20607
Experience with development of sealed linear waveguide electron accelerators 13 p1969 N84-22780
Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-256704-1] 13 p1985 N84-22884
All-aluminum-alloy UHV chamber for molecular beam epitaxy, 1 13 p2039 N84-23229
Manipulator having thermally conductive rotary joint for transferring heat from a test specimen
[DE84-010958] 20 p3186 N84-30242
Fatigue induced cracking in aluminum LN-2 shroud of 39 foot vacuum chamber 24 p3862 N84-34476
Improved materials characterization for spacecraft applications 24 p3865 N84-34494
Preparation and cleanliness verifications of a space simulation chamber for contamination sensitive test specimens 24 p3865 N84-34495

VACUUM DEPOSITION
Auger and depth profile analysis of synthetic crystals for dispersion of soft X-rays — tungsten carbides
[DE83-015257] 02 p0293 N84-11918
The growth and characterization of single crystal (Cd, Zn)S thin films relevant to the study of the (Cd, Zn)S/Cu/sub x/S photovoltaic cell
[DE84-003288] 11 p1745 N84-21385
Diamondlike flakes
[NASA-CASE-LEW-13637-2] 13 p1953 N84-22696
Vacuum-deposited thin-film interferometers as bistable devices operating continuously at room temperature 14 p2241 N84-24453
Vacuum-deposited optical coatings experiment (A0138-4) 15 p2278 N84-24681
Sputtering as a technique for applying tribological coatings 15 p2342 N84-25059
Effect of thermal irradiation from evaporation source to photo-darkening sensitivity of vacuum deposited AgBr film 21 p3477 N84-32038
Method for making Josephson junctions with contamination-free interfaces utilizing a ZNO contact insulator
[AD-D011057] 22 p3580 N84-32671

VACUUM EFFECTS
Microwelding of various metallic materials under ultravacuum (A0138-10) 15 p2272 N84-24642
Vacuum recycling effect on minor elements in superalloys 23 p3704 N84-33481
Fatigue crack growth in vacuum and in gaseous media 24 p3870 N84-34529
Matched evaporation of alloys in a vacuum 24 p3873 N84-34543

VACUUM FURNACES
Furnace brazing: A mass production method for producing high strength joints 09 p1292 N84-18434
Outline and evaluation of a spaceborne sodium heat pipe furnace with three compartments 10 p1440 N84-19407

VACUUM GAGES
NT BAYARD-ALPERT IONIZATION GAGES
NT KNUDSEN GAGES

VACUUM MELTING
The part played by the skin in the denitration of metal during vacuum arc remelting
[BLL-M-35213-(5828.4)] 01 p0041 N84-10261
Hot melt adhesive pad surface attachment assembly concept for on-orbit operations
[NASA-TM-85771] 12 p1777 N84-21596
A review of our present understanding of macrosegregation in ingots 24 p3883 N84-34601

VACUUM PUMPS
NT ION PUMPS
Helium leak detector improved sensitivity speed choke
[DE84-005160] 10 p1498 N84-19793
Development of low noise vacuum vane pumps
[BMFT-FB-HA-84-009] 18 p2850 N84-28094

VACUUM SYSTEMS
Leak testing and repair of fusion devices
[DE83-014942] 02 p0296 N84-11944
Vacuum measurements on the tandem mirror experiment upgrade (TMX-U) fusion experiment
[DE83-017836] 03 p0448 N84-12946
Fabrication of a hermetically sealed connector
[DE84-002322] 06 p0830 N84-15402
Improved four-stage accel-decel production of low-energy stripped heavy ions
[DE83-005791] 06 p0910 N84-15908
Rail accelerator development for ultra-high pressure research
[DE84-002452] 07 p0960 N84-16223
Vacuum ionic carburisation
[BLL-OA-TRANS-3149-(6196.3)] 08 p1122 N84-17291
Metal finishing and vacuum processes groups
[DE84-011046] 21 p3367 N84-31358

VACUUM TESTS
NT THERMAL VACUUM TESTS
Measurement of friction and wear on modified surfaces
[AD-A132364] 04 p0544 N84-13583
Outgassing data for selecting spacecraft materials
[NASA-RP-1124] 17 p2617 N84-26751
Torque properties of oscillating, dry-lubricated ball bearings in vacuum — spacecraft lubrication
[ESA-ESTL-57] 23 p3758 N84-33620
Vibration isolation system for testing in a vacuum 24 p3864 N84-34492

VACUUM TUBE OSCILLATORS
NT BACKWARD WAVE TUBES
NT CATHODE RAY TUBES
NT COLD CATHODE TUBES
NT GAS DISCHARGE TUBES
NT IMAGE TUBES
NT KLYSTRONS
NT MAGNETRONS
NT MICROWAVE OSCILLATORS
NT MICROWAVE TUBES
NT PHOTOMULTIPLIER TUBES
NT PHOTOTUBES
NT THERMICONS
NT THYRATRONS
NT TRAVELING WAVE TUBES
NT VIDICONS

VACUUM TUBES
NT BACKWARD WAVE TUBES
NT CATHODE RAY TUBES
NT COLD CATHODE TUBES
NT GAS DISCHARGE TUBES
NT IMAGE TUBES
NT KLYSTRONS
NT MAGNETRONS
NT MICROWAVE OSCILLATORS
NT MICROWAVE TUBES
NT PHOTOMULTIPLIER TUBES
NT PHOTOTUBES
NT THERMICONS
NT THYRATRONS
NT TRAVELING WAVE TUBES
NT VIDICONS
Rigid indented cylindrical cathode for X-ray tube
[DE84-011093] 20 p3180 N84-30204

VACUUM ULTRAVIOLET RADIATION
U FAR ULTRAVIOLET RADIATION

VALENCE
Implications of heavy-ion-induced satellite X-ray emission. 1: Introduction
[DE83-015682] 03 p0435 N84-12851
Applications of solvent extraction in hydrometallurgy
[BLL-OA-TRANS-3162-(6196.3)] 08 p1128 N84-17334
Literature review on occurence and methodology for determination of nickel, chromium, manganese and arsenic species in air
[PB84-172105] 16 p2483 N84-25788
Photoemission studies of mixed valent systems
[DE84-010797] 20 p3310 N84-31020

VALIDATION
U PROVING

VALIDITY
One method of assessing the validity of organizational-systems modelling
[BLL-M-35605-(5828.4)] 21 p3508 N84-32222

VALLEYS
NT DEATH VALLEY (CA)
NT SACRAMENTO VALLEY (CA)
A regression model for the temporal development of soil pipes and associated gullies in the alluvial-fill valley of the Rio Puerco, central New Mexico 13 p2084 N84-23502
Salts in the dry valleys of Antartica 13 p2085 N84-23510
Scarp development in the Valles Marineris 13 p2086 N84-23515
Radar-visible wind streaks in the Altiplano of Bolivia 13 p2088 N84-23527
The Quaternary history and stratigraphy of the Cape Fear River valley, North Carolina 21 p3438 N84-31815
Local climatological investigation of wind fields in the lower Monongahela Valley of Allegheny County, Pennsylvania 23 p3799 N84-34088

VALUE
A systolic architecture for singular value decomposition
[AD-A130098] 01 p0132 N84-10864
Axiomatic characterization and comparative analysis of preference on desirability and possibility
[AD-P002329] 14 p2189 N84-24120
On system diagnosis with multivalued test outcomes
[AD-P002375] 14 p2195 N84-24166
Value and competition
[SNIAS-832-501-101] 15 p2416 N84-25504
Spline and weighted random directions method for nonlinear optimization
[AD-A144217] 24 p3950 N84-35012

VALUE ENGINEERING
Mini-Seminar on Quality Assurance
[CSIR-TSD-0008/82] 08 p1167 N84-17600

VALVES
NT AUTOMATIC CONTROL VALVES
NT CONTROL VALVES
NT DAMPERS (VALVES)
NT HEART VALVES
NT PRESSURE REGULATORS
Prosthetic occlusive device for an internal passageway
[NASA-CASE-MFS-25740-1] 02 p0265 N84-11744
Microprocessor-based control system for flowing-electrolyte zinc-bromine battery systems
[DE83-012506] 03 p0369 N84-12403
Controlled combustion engine evaluation
[DE83-011245] 03 p0384 N84-12499
Two types of values and their assessment by the collective interest
[DE83-012064] 03 p0460 N84-13031
Investigation of the generation of regular waves by a sliding valve pneumatic wave generator
[CSIF-RR-553] 04 p0543 N84-13579
Mechanical-property characterization of an electroslag-cast valve body of CF8M composition
[DE84-002253] 05 p0655 N84-14309
Compact Claude cycle refrigerator for laboratory use 06 p0819 N84-15338
Gas box control system for tandem mirror experiment upgrade
[DE84-003245] 07 p1078 N84-17006
Helium leak detector improved sensitivity speed choke
[DE84-005160] 10 p1498 N84-19793
Emission-proof valves — for chemical plants
[BMFT-FB-HA-83-028] 10 p1503 N84-19822
Development and marketing of a prosthetic urinary control valve system
[NASA-CR-170994] 12 p1867 N84-22168

A proportional piezoelectric electropneumatic servovalve design
[AD-A140224] 16 p2499 N84-26031
Digital rotation measurement unit
[DE84-010872] 21 p3392 N84-31526
Linear motion valve
[NASA-CASE-MSC-20148-1] 22 p3603 N84-32823
Detection of damage in hydraulic components by acoustic emission techniques
[AD-A143282] 22 p3607 N84-32850
Flow metering valve
[DE84-014249] 23 p3757 N84-33815

VAN ALLEN RADIATION BELTS
U RADIATION BELTS

VAN DE GRAAFF ACCELERATORS
Improved four-stage accel-decel production of low-energy stripped heavy ions
[DE83-005791] 06 p0910 N84-15908
System for producing high-resolution polarized and unpolarized beams with a tandem accelerator
[DE84-004054] 09 p1388 N84-19063

VAN DER WAAL FORCES
Molecular jet study of aniline-helium van der Waals molecules and aniline radiationless relaxation in the 1-B sub 2 excited electronic state
[AD-A132726] 05 p0744 N84-14888
Deterministic chaos in materials exhibiting phase transitions
[AD-A135172] 08 p1158 N84-17537
Study of the contributions of chemical and van der Waal forces to interaction between fluorine and Ar, Kr and Xe, using molecular beam scattering investigations of integral scattering cross sections
[MPIS-1/1984] 23 p3823 N84-34248

VANADATES
Suppression of asymmetric acid efflux and gravitropism in maize roots treated with auxin transport inhibitors of sodium orthovanadate
[NASA-CR-173634] 17 p2740 N84-27395

VANADIUM
Different sensitivity of s- and d-electron energy levels to a change in lattice parameters in transition metals
[BLL-M-35116-(5828.4)] 01 p0151 N84-10996
Comparison of damage microstructures in neutron-irradiated vanadium and iron
[DE83-017189] 03 p0354 N84-12304
Far-infrared studies on superconductors and heat-capacity studies on liquid crystals
[DE84-001123] 05 p0756 N84-14957
Observations on the vanadium-nitrogen system and on pure metallic vanadium
[CSIR-TRANS-1708] 06 p0805 N84-15243
Study of the recovery of valuable metal starting materials from steelsworks slag
[BMFT-FB-T-83-183] 10 p1532 N84-20034
Wire tensile testing for radiation hardening experiments
[DE84-005884] 11 p1634 N84-20684
Study on the effects of niobium, vanadium, titanium and/or rare Earth metals on the properties and processing of high-tensile, weldable structural steels
[BMFT-FB-T-83-318] 15 p2295 N84-24775
Composition and structure of multicomponent vanadium- and niobium-base coatings
[BLL-M-35657-(5828.4)] 22 p3550 N84-32474

VANADIUM ALLOYS
Investigation of microstructural changes in ferritic stainless steels caused by high-temperature deformation
[DE83-015331] 01 p0046 N84-10298
Effect of implanted helium on the microstructure and creep properties of ordered (FeO.49 NiO.51) V-3 alloys
[DE84-000691] 04 p0500 N84-13278
Characteristics of grindability of P/M high speed steel: influence of peripheral wheel speed on wheel wear and surface quality 07 p0964 N84-16371
Constitution diagram of system vanadium - copper
[AD-A135516] 08 p1132 N84-17361
Modification of alloy surface composition by segregation processes as a means of impurity control in fusion devices
[DE84-003645] 08 p1134 N84-17373
Corrosion and oxidation of vanadium-base alloys
[DE84-003266] 09 p1265 N84-18393
Titanium fabrication
[DE84-004374] 10 p1462 N84-19551
Superfine wire made from new alloy 12 p1787 N84-21657
Kinetics of corrosion of alloys of vanadium-chromium system in phosphoric acid
[BLL-M-35560-(5828.4)] 17 p2621 N84-26771
A modified tritium trick technique for doping vanadium alloys with helium
[DE84-014267] 23 p3720 N84-33581
Superconducting and semiconducting properties of electron-beam evaporated materials
[DE84-013470] 23 p3830 N84-34296

VANADIUM CARBIDES
Inelastic deformation of crystaline nonmetallic solids
[DE83-014594] 01 p0155 N84-11020

VANADIUM COMPOUNDS
NT VANADATES
NT VANADIUM CARBIDES
NT VANADIUM OXIDES
Synthesis and characterization of superconducting electronic materials
[AD-A144137] 24 p3966 N84-35116

VANADIUM OXIDES
Magnetic properties of interstitial phases in vanadium-oxygen system
[BLL-M-35386] 09 p1393 N84-19095
Defect clusters and electrical properties in transition metal monoxides
[DE84-014851] 22 p3666 N84-33242

VANES
NT GUIDE VANES
High-temperature-turbine-technology program. Phase 2: Technology test and support studies
[DE83-015200] 01 p0092 N84-10597
Effects of vane-tip geometry on the electric fields in radio-frequency quadrupole linacs
[DE83-013214] 01 p0143 N84-10937
Hot gas APU starter for advanced aircraft applications 03 p0335 N84-12178
Oscillating wind energy conversion systems
[DE84-000087] 12 p1843 N84-22018
Study of stator-vane fluctuating pressures in a turbofan engine for static and flight tests
[NASA-TP-2217] 12 p1898 N84-22363
Investigation of the effects of pressure gradient, temperature and wall temperature ratio on the stagnation point heat transfer for circular cylinders and gas turbine vanes
[NASA-CR-174667] 14 p2109 N84-23649
Development of low noise vacuum vane pumps
[BMFT-FB-HA-84-009] 18 p2850 N84-28094
Deposition of Na2SO4 from salt-seeded combustion gases of a high velocity burner rig
[NASA-TM-83751] 21 p3398 N84-31558
Nonlinear analysis for high-temperature composites: Turbine blades/vanes 21 p3421 N84-31699

VANGUARD PROJECT
Air Force Technical Objective Document (TOD) C(3)I (command, control, communications and intelligence) - fiscal year 1985
[AD-A141276] 18 p2829 N84-27961

VANS
U TRUCKS

VAPOR DEPOSITION
NT VACUUM DEPOSITION
Materials research for advanced inertial instrumentation. Task 2: Gas bearing material development
[AD-A130471] 01 p0007 N84-10044
Novel techniques for enhanced reflectivity infrared mirrors
[AD-A131924] 03 p0441 N84-12894
Deposition of cesium iodide on paylene
[DE83-017839] 04 p0605 N84-13992
Chemical vapor deposition of oriented tungsten foils for thermionic cathodes
[AD-A132379] 04 p0612 N84-14040
Study of the physics of insulating films as related to the reliability of metal-oxide semiconductor devices
[AD-A133674] 05 p0754 N84-14944
Chemical vapor deposition of group IVB, VB, and VIB elements with nonmetals. A literature review
[PB83-225409] 06 p0802 N84-15228
Comparative study of TiN hard coatings produced by reactive sputtering, ion-plating and CVD technique
[BLL-RARDE-TR-1094(7291.7965)] 06 p0804 N84-15236
Amorphous zirconium-nickel films formed by solid state reactions
[DE84-003570] 07 p0976 N84-16326
The preparation of low-loss optical fiber with microwave plasma activated chemical vapor deposition process
[AD-A134260] 07 p1076 N84-16994
Large plate CdTe synthesis by sealed vessel transport
[AD-A134588] 07 p1081 N84-17027
Ceramic components for gas turbines, phase 2
[BMFT-FB-T-83-196] 08 p1105 N84-17183
Eddy current thickness gauge for reel-to-reel tape processes
[DE84-004050] 08 p1162 N84-17567
InGaPAs by metalorganic chemical vapor deposition
[AD-A135281] 08 p1234 N84-18069
Theoretical study of laser-stimulated chemical vapor deposition processes of importance in microelectronics
[AD-A136433] 09 p1321 N84-18631
In situ laser measurements of silicon CVD
[DE84-004148] 10 p1501 N84-19809
Material growth and characterization for solid state devices
[NASA-CR-173285] 10 p1587 N84-20401
Surface modification by physical vapour deposition
[AD-A137844] 11 p1637 N84-20706
Laser chemical vapor deposition
[AD-A137827] 11 p1663 N84-20850
Performance characteristics of VAD single mode fibers in mass production basis 11 p1725 N84-21254
Vapor deposition of stabilized zirconium oxide electrolyte and lanthanum chromite interconnection for multiple cell fabrication 11 p1739 N84-21346
Chemical vapour deposition coating of hard metals with special reference to boron and boron compounds
[BLL-RISLEY-TRANS-4877] 12 p1795 N84-21705
Photodeposition of nitride insulators on 3-5 substrates
[NASA-CR-173393] 12 p1797 N84-21720
High-temperature CVD heat pipe development
[DE83-017893] 12 p1816 N84-21838
Laser assisted deposition 12 p1840 N84-21998
Optimization of transparent electrode for solar cell and chemical vapor deposition of amorphous silicon
[DE83-017780] 12 p1843 N84-22014
Theoretical influence of the deposition conditions on the uniformity of boron carbide coatings 13 p1954 N84-22707
Application of a spray deposition method for reversed phase liquid chromatography-mass spectrometry
[PB84-159029] 14 p2124 N84-23730
Fundamental studies of growth, doping and transformation in beta silicon carbide
[AD-A139179] 14 p2241 N84-24458
A stereospecific vapor detector
[AD-A139665] 15 p2337 N84-25028
Undoped buffer layer development
[AD-A139758] 15 p2413 N84-25484
Interface formation in physically deposited films
[MLM-3089] 16 p2470 N84-25827
Development of new absorber coatings for high temperature applications
[BMFT-FB-T-84-033] 16 p2471 N84-25837
Chemical vapor deposition and reactive diffusion of boron on beryllium
[AD-D011043] 19 p2995 N84-28978
High density circuit technology, part 3
[NASA-CR-162040] 19 p3012 N84-29090
High-efficiency solar cells fabricated by vacuum MO-CVD 19 p3047 N84-29329
Laser-assisted solar cell metallization processing
[NASA-CR-173763] 19 p3050 N84-29355
Method and apparatus for producing high purity silicon
[DE84-011087] 20 p3163 N84-30090
Chemical vapor deposition of amorphous semiconductor films
[DE84-004489] 20 p3311 N84-31026
Comparative studies of vapor and liquid-phase impregnation of porous silicon nitride and silicon carbide materials
[DE84-012667] 21 p3359 N84-31309
Surface modification and coatings: A technical assessment
[DE84-012483] 21 p3372 N84-31396
Deposition of Na2SO4 from salt-seeded combustion gases of a high velocity burner rig
[NASA-TM-83751] 21 p3398 N84-31558
Chemical vapor deposition of erosion resistant TiB-2 coatings
[DE84-012351] 22 p3558 N84-32518
Replication of high power laser mirrors
[AD-D011140] 22 p3656 N84-33177
Low temperature epitaxial deposition of silicon by plasma enhanced CVD (Chemical Vapor Deposition)
[AD-A143208] 22 p3662 N84-33216
Coatings for fuel economy or materials substitution 23 p3704 N84-33477
Platinum group coatings for refractory metals
[AD-A143792] 23 p3718 N84-33568
Development of a polysilicon process based on chemical vapor deposition, phase 1 and phase 2
[NASA-CR-173957] 23 p3786 N84-34015
Superconducting and semiconducting properties of electron-beam evaporated materials
[DE84-013470] 23 p3830 N84-34296
Thermal physics of plasma atomization onto fiber materials 24 p3873 N84-34544
Laser control of chemical reactions
[AD-A144359] 24 p3908 N84-34758

VAPOR GENERATORS
U VAPORIZERS

VAPOR LIQUID EQUILIBRIUM
U LIQUID-VAPOR EQUILIBRIUM

VAPOR PHASE EPITAXY
Growth of epitaxial ice crystals on covellite (CuS) under reduced air pressure 02 p0306 N84-12008
AlGaAsSb vapor phase epitaxy and laser program
[AD-A133123] 06 p0922 N84-15995

Control of impurities in the epitaxial growth of high quality GaAs
[AD-A133187] 06 p0922 N84-15996
Film synthesis and new superconductors
[AD-A135102] 08 p1234 N84-18068
A comparative thermodynamic analysis of impurity incorporation in vapor phase epitaxial InP and GaAs
[AD-A135739] 09 p1395 N84-19113
Electrical, luminescence and SIMS (Secondary ion mass spectroscopy) characterization of carbon implanted vapor phase epitaxial gallium arsenide
[AD-A136094] 12 p1913 N84-22464
Theoretical and experimental study of solid phase miscibility gaps in 3/4 quaternary alloys
[DE84-004391] 12 p1915 N84-22478
Production oriented 3-5 epitaxy
[BMFT-FB-T-83-286] 13 p2048 N84-23290
Undoped buffer layer development
[AD-A139758] 15 p2413 N84-25484
Preparation of high purity Ga()In(1-x) by the VPE-hydride method with a gallium-indium alloy source
[AD-A143275] 22 p3863 N84-33218

VAPOR PHASES
Modeled heating and surface erosion comparing motile (gas borne) and stationary (surface coating inert particle additives
[DE83-000597] 01 p0080 N84-10521
Positive displacement rotary compressor for vapor compression
[PB83-232744] 01 p0092 N84-10599
Simultaneous heat and mass transfer in absorption of gases in turbulent liquid films
[DE83-016394] 02 p0220 N84-11445
Optimization of GC/MS based Tenax collection method for toxic organics
[PB83-229476] 02 p0222 N84-11455
Chemiluminescence and laser induced fluorescence of boron atom reactions
[AD-A131709] 03 p0380 N84-12471
Electron-molecule interactions in gases and liquids: The electron-attachment process in gases and nonpolar liquids
[DE83-017205] 03 p0436 N84-12863
Vapor-phase heat-transport system
[DE84-001341] 04 p0535 N84-13516
Injection, atomization, ignition and combustion of liquid fuels in high-speed air streams
[AD-A133806] 05 p0648 N84-14264
Amplification of sound by gas phase reactions
[AD-A133747] 05 p0649 N84-14266
Laser-induced molecular dynamics: Rate processes in the gas phase and at solid surfaces
[AD-A134426] 07 p1072 N84-16982
Comparison of photon stimulated dissociation of gas phase, solid and chemisorbed water
[AD-A134986] 08 p1125 N84-17314
In situ laser measurements of silicon CVD
[DE84-004148] 10 p1501 N84-19809
Properties of 3-dimensional energetic solids and molecular crystals
[AD-A137927] 11 p1744 N84-21382
Convective heating of energetic materials
13 p1949 N84-22672
Molecular dynamics of propellant gases
13 p1949 N84-22674
Nitramine propellant ignition under rapid gas loading conditions 13 p1950 N84-22677
Mass spectroscopic investigations of the reactions of O2 (1 deltag) with furan, 2-methylfuran, and 2,5-dimethylfuran in the gas phase
[MPIS-7/1983] 13 p1958 N84-22731
Boron in the marine atmosphere
13 p2010 N84-23038
Primary patterns of electronically excited molecules in the gas phase 2
[MPIS-9/1983] 13 p2041 N84-23245
Liquid-vapor and solid-liquid-vapor phase equilibria in natural gas systems
[PB84-179191] 16 p2474 N84-25860
Vapor-phase heat-transport system
16 p2518 N84-26161
Prediction of thermal rate constants for combustion reaction
[AD-A140736] 17 p2619 N84-26760
Experimental and theoretical study of NOx by reduction by NHi in gas phase 17 p2724 N84-27340
Primary processes of electronically excited molecules in vapor phase, part 3
[MPIS-12/1983] 18 p2930 N84-28582
Mechanism of operation and design considerations for surface acoustic wave device vapor sensors
[AD-A141537] 19 p3027 N84-29195
Soldering method for cable connectors
[AD-D011103] 22 p3587 N84-32718
Superfluid helium 2 liquid-vapor phase separation: Technology assessment
[NASA-TM-85986] 22 p3593 N84-32752
Bonding materials by gas-phase precipitation
23 p3709 N84-33512
Large-area sheet task advanced dendritic web growth development
[NASA-CR-173958] 23 p3787 N84-34019

VAPOR PRESSURE
Meteorological applications library (CRH.LB)
[PB84-122639] 06 p1193 N84-17776
Error analysis of vapor pressure measurements
[AD-A137584] 11 p1728 N84-21271
The vapor pressure of Salt-HCl-Water solutions below 0 C
[AD-A141184] 18 p2811 N84-27845
Resonance ionization spectroscopy measurement of the vapor pressure of several molecular species
[DE84-010656] 21 p3409 N84-31624

VAPORIZATION HEAT
U HEAT OF VAPORIZATION

VAPORIZERS
NT EVAPORATORS
Recent research on the efflux of the Rolls-Royce vaporiser fuel injector 15 p2290 N84-24743
Optimation of cooled shields in insulations
[NASA-CR-166583] 18 p2836 N84-27999
Holographic investigation of thermal nonequilibrium vapor generation
[DE84-011905] 21 p3406 N84-31607

VAPORIZING
NT BOILING
NT COAL GASIFICATION
NT EVAPORATION
NT EVAPOTRANSPIRATION
NT FLASHING (VAPORIZING)
NT NUCLEATE BOILING
NT PREVAPORIZATION
NT SUBLIMATION
NT TRANSPIRATION
Higher order numerical simulations of the Knudsen layer
[AD-A131538] 02 p0190 N84-11234
Techniques for avoiding discrimination errors in the dynamic sampling of condensable vapors
[NASA-TM-85886] 07 p1007 N84-16527
Influence of container interactions on the vaporization thermodynamics of nickel
[MRL-R-884] 17 p2622 N84-26784
Shock vaporization and the accretion of the icy satellites of Jupiter and Saturn
[NASA-CR-173767] 19 p3122 N84-29843
Calculation of vaporization rates assuming various rate determining steps: Application to the resistojet
[NASA-TM-83757] 21 p3355 N84-31283
Bulk undercooling 24 p3881 N84-34591

VAPORS
NT CESIUM VAPOR
NT METAL VAPORS
NT SODIUM VAPOR
NT WATER VAPOR
Open-cycle vapor compression heat pump
[PB83-228429] 01 p0059 N84-10384
Diffusion and sorption of cyclohexane vapor in SBS and SBR copolymers
[AD-A132397] 04 p0506 N84-13315
Propulsion apparatus and method using boil-off gas from a cryogenic liquid — controlling spacecraft attitude and drag
[NASA-CASE-MFS-25946-1] 06 p0796 N84-15183
Honeycomb insulating shade
[DE84-001270] 09 p1276 N84-18335
Industrial hygiene data for F-16 aircraft refueling inside closed aircraft shelters. Supplementary
[AD-A138364] 12 p1865 N84-22154
An industrial hygiene evaluation of F-16 aircraft refueling inside closed aircraft shelters
[AD-A138501] 12 p1866 N84-22157
Modeling of inhalation administration of vapors with capacity limited clearance
[AD-A138647] 13 p2020 N84-23098
Portable device for detecting and identifying hazardous vapors
[DE84-003640] 14 p2148 N84-23870
A stereospecific vapor detector
[AD-A139965] 15 p2337 N84-25028
Detonation-and-flame arresters for gasoline-vapor recovery systems 15 p2431 N84-25600
Heat Transfer Coefficient in Containments (HTCC): A heat transfer model for gas-vapor mixtures
[BMI-1983-022] 16 p2485 N84-25939
Poly(ethylene maleate) - cyclopentadiene: A model reactive polymer-vapor system for evaluation of a SAW (Surface Acoustic Wave) microsensor
[AD-A141531] 19 p2999 N84-29001
Organic semiconductor vapor sensing method
[AD-D011070] 19 p3017 N84-29127
Vapor spill pipe monitor
[DE84-011103] 20 p3190 N84-30267
Two-dimensional vapor flow analysis in heat pipes
[DE84-012581] 21 p3402 N84-31582

VARACTOR DIODES
Topics in the optimization of millimeter-wave mixers
[NASA-TP-2287] 11 p1645 N84-20758

VARACTORS
U VARACTOR DIODES

VARIABILITY
Rapid X-ray variability of active galaxies
[NASA-TM-85101] 01 p0165 N84-11082
F-region variability and HF-propagation
06 p0869 N84-15658
Studies of highly variable galactic X-ray sources with HEAO-1
[NASA-CR-170941] 06 p0941 N84-16112
The October 1983 recurrence of the outburst of the Orion water maser source and its past history
[INPE-2985-PRE/444] 07 p1088 N84-17076
A Variable Conductance Heat Pipe (VCHP) radiator system for communications payloads
10 p1440 N84-19406
Galerkin's method and stabilization method for variable type equations
[PREPRINT-789] 12 p1895 N84-22346
X-ray spectra and time variability of active galactic nuclei
[NASA-TM-86071] 12 p1922 N84-22519
Slotted variable camber flap
[NASA-CASE-LAR-12541-1] 13 p1930 N84-22551
Study of variability in extragalactic radio sources at 22 GHz and 44 GHz
[INPE-2913-TDL/149] 13 p2092 N84-23549
V/STOL model fan stage rig design report
[NASA-CR-174688] 14 p2106 N84-23629
An X-ray survey of variable radio bright quasars
[NASA-TM-86094] 14 p2250 N84-24512
Delayed feedback optimal controller
17 p2756 N84-27498
Photometric variations of solar-type stars: Results of the Cloudcroft survey 17 p2779 N84-27646
Variability of the convection field pattern in South Florida and its relationship to the synoptic flow
[PB84-177393] 20 p3249 N84-30623
Climatic change and streamflow in the southwest
[DE84-012658] 21 p3432 N84-31776

VARIABLE AREA WINGS
U TRAILING-EDGE FLAPS

VARIABLE GEOMETRY STRUCTURES
Variable stator radial turbine
[NASA-CR-174663] 13 p1932 N84-22568
Design and operation of a deployable truss structure
15 p2347 N84-25082

VARIABLE LIFT
U LIFT

VARIABLE STARS
NT CEPHEID VARIABLES
NT DWARF NOVAE
NT NOVAE
NT SUPERNOVAE
NT SYMBIOTIC STARS
NT T TAURI STARS
Linear and nonlinear models of Mira variable stars
02 p0304 N84-11996
Studies of cataclysmic variables
04 p0619 N84-14084
Visible and infrared studies of cataclysmic variable stars 05 p0762 N84-14997
Ultraviolet studies of nova-like variables with the IUE
[NASA-CR-175233] 07 p1089 N84-17080
PULSAR: A balloon-borne experiment to detect variable low energy gamma-ray
[INPE-2950-PRE/433] 07 p1093 N84-17108
A cluster analysis of visual and near-infrared light curves of long period variable stars 09 p1409 N84-19210
Some applications of multiple regression analysis — in astronomy 09 p1410 N84-19220
Discriminant analysis in astronomy
09 p1411 N84-19223
Observations of variable millimeter wave radio sources at Metsaehovi 09 p1413 N84-19245
Constraints on stellar evolution from pulsations
[DE84-003787] 09 p1415 N84-19261
A generalized behavioral model for rotating short period comets with spectral orbital elements and axial orientation 13 p2075 N84-23451
The K2-Dwarf V471 TAU: A stellar version of solar variability 17 p2779 N84-27647
UV observations on the variable quasar PG 1351+64
24 p3972 N84-35153
The wind and chromosphere of the Herbig Ae star AB Aur as seen by IUE 24 p3975 N84-35173

Possible identifying characteristics of Be stars
24 p3976 N84-35185
The hydrogen-deficient irregular variable star V348 SGR
24 p3978 N84-35200
Constraints on stellar winds of cataclysmic variables derived from ultraviolet resonance lines
24 p3979 N84-35205
SS Cygni: Accretion disk morphology
24 p3979 N84-35206
UV and optical observations of the novalike object V3885 SGR
24 p3979 N84-35207
A new outburst of Z Andromedae
24 p3979 N84-35209
The spectrum of the symbiotic star CH Cygni in January 1984
24 p3980 N84-35210

VARIABLE SWEEP WINGS
Application of near-term technology to a Mach 2.0 variable-sweep-wing, supersonic-cruise executive jet
[NASA-CR-172321] 14 p2104 N84-23621

VARIABLE THRUST
Journal of the Chinese Society of Astronautics (selected articles)
[AD-A131881] 03 p0341 N84-12212

VARIANCE (STATISTICS)
NT ANALYSIS OF VARIANCE
NT BIVARIATE ANALYSIS
NT COVARIANCE
NT MULTIVARIATE STATISTICAL ANALYSIS
NT REGRESSION ANALYSIS
Computation of the sample range in presence of conditions on generalized variance
02 p0285 N84-11872
Kriging of geological and physical parameters from Yucca Flat, NTS
[DE83-018227] 04 p0550 N84-13625
Passive source localization from spatially correlated angle-of-arrival data
[AD-A133141] 06 p0822 N84-15362
High resolution spectrum analysis by dominant mode enhancement
09 p1401 N84-19153
A note on the ratio of positively correlated gamma variates
10 p1573 N84-20305
Some considerations in estimating data transformations
[AD-A137960] 12 p1893 N84-22329
Variance-covariance components estimation by the adjustment of heterogeneous repetition measurements
[SER-C-282] 16 p2547 N84-26346
On the representation of probability distributions as the convolution of symmetric and completely asymmetric parts
[AD-A140843] 17 p2760 N84-27528
Jackknife and bootstrap inference in regression and a class of representations for the LSE
[AD-A141505] 19 p3093 N84-29641
Variational objective analyses for cyclone studies
24 p3924 N84-34840

VARIATION METHOD
U CALCULUS OF VARIATIONS

VARIATIONAL PRINCIPLES
Limit analysis of plates by a finite element approach
01 p0093 N84-10604
Present trends in structural analysis at ONERA
03 p0429 N84-12812
Comment on the energy variation method
[CSIR-TWISK-293] 07 p1059 N84-16862
Dielectrically loaded corrugated waveguide: Variational analysis of a nonstandard eigenproblem
[REPT-S-131] 09 p1305 N84-18528
Variational methods for nonstandard eigenvalue problems in waveguide and resonator analysis
[REPT-S-128] 09 p1379 N84-19012
Variational principles in thermoplasticity. Part 1: Heat transfer and plasticity
[RUB-IFM-MITT-33-PT-1] 10 p1490 N84-19740
An extremal-variational principle for unsteady thermal conduction applied to thermoelastic problems using finite elements
[MITT-35] 12 p1814 N84-21826
Calculation procedures for variational, Born and exact solutions for electromagnetic scattering from two randomly separated dielectric Rayleigh cylinders
[AD-A138543] 13 p1982 N84-22865
Least squares approximations to compressible flow problems
[AD-P002961] 14 p2200 N84-24201
Bifurcation and multiplicity results for nonlinear elliptic problems involving critical sobolev exponents
[AD-A139332] 14 p2219 N84-24315
A nonlinear model of laminated plate, using combined variables
16 p2476 N84-25875
The principle of virtual work and associated variational principles
[AD-B071515] 16 p2549 N84-26361
Compressible flows of jets and cavities
[PREPRINT-637] 17 p2669 N84-27022
A variational formulation for dissipative maps
[REPT-81] 20 p3283 N84-30846

VARIATIONS
NT ALTERNATIONS
NT ANNUAL VARIATIONS
NT DIURNAL VARIATIONS
NT GEOMAGNETIC PULSATIONS
NT MAGNETIC VARIATIONS
NT NOCTURNAL VARIATIONS
NT PERIODIC VARIATIONS
NT SECULAR VARIATIONS
NT WIND VARIATIONS
Coherence and turbulence effects on the intensity scintillations at optical frequencies
01 p0146 N84-10980
Observations of soft X-ray fluctuations with an imaging array on TEXT
[DE83-018118] 03 p0447 N84-12938
Solar cycle variations of the solar wind
03 p0469 N84-13089
Solar cycle variations in the interplanetary magnetic field
03 p0469 N84-13091
Solar wind variations in the 60-100 year period range: A review
03 p0469 N84-13092
Temporal variations of the anomalous oxygen component
03 p0471 N84-13099
Voyager measurements of the energy spectrum, charge composition, and long term temporal variations of the anomalous components in 1977-1982
03 p0471 N84-13100
Keynesian chaos
[AD-A132836] 05 p0760 N84-14987
Line profile variability in winds of OB stars
06 p0936 N84-16085
Joint timing analysis of A0535 + 26 at 1980 outburst
[DE84-001320] 07 p1094 N84-17113
Ocean research for understanding climatic variations: Priorities and goals for the 1980's
[PB84-105816] 08 p1192 N84-17768
Empirical-theoretical survey of the variety of peculiarities and anomalies in the atmospheres enveloping actual stars
09 p1414 N84-19256
Variation of arctic cloud cover in summer: Results through February 1983
[DE84-005098] 11 p1688 N84-21010
Quenchings and outbursts of extragalactic radio sources: Nine years of 3.3-mm measurements and comparisons with centimeter-wave variations
[AD-A138233] 13 p2092 N84-23550
Effect of driving laser fluctuations on optical bistability
14 p2235 N84-24413
Allowance for geomagnetic field variations and tie-in of observations in highly precise aeromagnetic surveys
17 p2704 N84-27221
Light scattering measurements of critical fluctuations in an optically thin binary liquid sample
17 p2765 N84-27559
Modelling solar spectral irradiance variations at ultraviolet wavelengths
17 p2780 N84-27651
Vertical movements and magnetic variations before earthquakes
18 p2860 N84-28163
The problem of climate and climate variations
[WCP-72] 18 p2886 N84-28312
The NOAA-ERL-ARL solar UV radiation and climate research project program description
[PB84-183292] 20 p3319 N84-31070

VARNISHES
State of techniques for crackling varnishes and problems posed by their application
[CETIM-1.5C.23.1] 21 p3424 N84-31723

VASCULAR SYSTEM
NT AORTA
NT ARTERIES
NT BLOOD VESSELS
NT CAPILLARIES (ANATOMY)
NT VEINS
Increase in whole-body peripheral vascular resistance during three hours of air or oxygen prebreathing
[NASA-TM-58261] 20 p3259 N84-30684

VASOCONSTRICTION
Increase in whole-body peripheral vascular resistance during three hours of air or oxygen prebreathing
[NASA-TM-58261] 20 p3259 N84-30684

VASOCONSTRICTOR DRUGS
NT SEROTONIN

VASODILATION
Effects of long-term exposure to low positive temperatures on cold-induced vasodilation
18 p2896 N84-28371
Regulation and characteristics of cold-induced vasodilation
[AD-A143797] 23 p3810 N84-34158

VASOMOTOR NERVOUS SYSTEM
U NERVOUS SYSTEM

VAX-11 SERIES COMPUTERS
NT VAX-11/780 COMPUTER
Development of real-time ATC simulation facility
02 p0168 N84-11106
Cray/VAX interactive graphics system
[DE84-003826] 10 p1564 N84-20249
Implementation of MACLISP on a large address space computer
[DE84-005042] 11 p1710 N84-21145
Development of a communications Front End Processor (FEP) for the VAX-11/780 using an LSI-11/23
[AD-A138152] 12 p1807 N84-21778

VAX-11/780 COMPUTER
Standard methods for image processing. Part 4: Operating instructions for the program system
[BMVG-FBWT-83-1] 08 p1213 N84-17915
ADA1: An ADA subset compiler for the AFIT syntax directed programming environment
[AD-A138027] 12 p1880 N84-22251

VCO
U VOLTAGE CONTROLLED OSCILLATORS

VECTOR ANALYSIS
NT COLLINEARITY
NT COPLANARITY
NT VORTICITY
Likelihood ratio tests on covariance matrices and mean vectors of complex multivariate normal populations and their applications in time series
[AD-A131523] 01 p0133 N84-10874
Some results on stable rank 2 vector bundles and reflexive sheaves on cubic Rho
02 p0286 N84-11877
Results of the Australian geodetic VLBI experiment
04 p0520 N84-13416
Cauchy flux and sets of finite perimeter
[AD-A132834] 05 p0737 N84-14840
Population control of self-replicating systems: Option C
06 p0930 N84-16044
Note on subharmonic solutions of a Hamiltonian vector field
[AD-A134537] 07 p1062 N84-16890
Elements of dyadic algebra and its application in electromagnetics
[REPT-S-126] 09 p1304 N84-18527
NRL (Naval Research Laboratory) plasma formulary, revised
[AD-A135787] 09 p1391 N84-19086
The Cauchy and Born hypotheses for crystals
[AD-A136374] 09 p1395 N84-19107
The new MSFC Solar vector magnetograph. Center director's discretionary fund
[NASA-TM-82568] 10 p1497 N84-19786
On recent progress in and utilization of astrogeodetic-inertial and astrogeodetic-gradiometric gravity vector determination
[AD-A136263] 10 p1526 N84-19993
Vectorized Monte Carlo methods for reactor lattice analysis
10 p1559 N84-20216
A highly optimized vectorized code for Monte Carlo simulations of SU(3) lattice gauge theories
10 p1560 N84-20219
Accuracy of vortex methods
[DE84-005714] 11 p1654 N84-20796
Kinematic analysis of Hurricane Frederick (1979) using satellite, aircraft and Rawinsonde data
[NASA-CR-175430] 11 p1685 N84-20988
Simple computable bounds for solutions of linear complementarity problems and linear programs
[AD-A137949] 11 p1715 N84-21188
The invariance of cones and wedges under flows
[PREPRINT-796] 12 p1817 N84-21848
Vector expansion transformation of logic algebra
[AD-P002349] 14 p2192 N84-24140
Local asymptotic approximation of nonlinear control systems
[AD-A139260] 14 p2213 N84-24288
Polarization utilization in radar target reconstruction: C-wide (Multi-frequency) band relationship of a target's characteristic operators with its unique set of natural eigenfrequencies
[AD-A140092] 15 p2321 N84-24938
Conference on Vector Calculators, Winter Quarter 1983
16 p2548 N84-26355
Numerical mathematics by vector calculation: Theory and practical experiments
16 p2549 N84-26356
On vector calculation of mechanic flow computer programs
16 p2549 N84-26358
Implementation and performance of algorithms on a vector calculator
[SNIAS-832-111-104] 18 p2920 N84-28519
On the scattering of electromagnetic waves by perfectly conducting bodies moving in vacuum. Part 3: Representations of sufficiently smooth solutions of Maxwell's equation and of the scattering program
[AD-A141584] 19 p3005 N84-29050
Simple bounds for solutions of monotone complementarity problems and convex programs
[AD-A141699] 19 p3087 N84-29594

Conduct of the International Multigrid Conference
[NASA-CR-173823] 19 p3090 N84-29618
Multi-criteria approach to selection of optimal connections in large-scale integrated circuits
21 p3378 N84-31436
A theoretical study of the energetics and dynamics of high energy inelastic collision processes
[AD-A142799] 21 p3497 N84-32163
Isolated-word speech recognition using multi-section vector quantization code books
[AD-A144433] 24 p3895 N84-34665

VECTOR CALCULUS
U VECTOR SPACES

VECTOR CONTROL
U DIRECTIONAL CONTROL

VECTOR DOMINANCE MODEL
Documentation of the GLAS fourth order general circulation model. Volume 2: Scalar code
[NASA-TM-86064-VOL-2] 14 p2179 N84-24049
Documentation of the GLAS fourth order general calculation model. Volume 3: Vectorized code for the Cyber 205
[NASA-TM-86064-VOL-3] 14 p2179 N84-24050

VECTOR SPACES
NT ADJOINTS
NT BANACH SPACE
NT CANONICAL FORMS
NT EIGENVALUES
NT EIGENVECTORS
NT HILBERT SPACE
NT JORDAN FORM
NT MATRICES (MATHEMATICS)
NT SOBOLEV SPACE
NT STATE VECTORS
NT STIFFNESS MATRIX
NT VECTORS (MATHEMATICS)
NT VORTICITY
Recursive analysis of the geomagnetic vector field
[INPE-2865-PRE/400] 02 p0272 N84-11776
Twisted sums of nuclear Frechet spaces
04 p0576 N84-13800
Convolution of generalized vector measures
04 p0577 N84-13803
Vector coding the finite volume procedure for the CYBER 205
06 p0839 N84-15465
Complex vector algebra in electromagnetics
[REPT-S-125] 09 p1304 N84-18526
The extreme point characterizations of semi-infinite dual non-archimedean balls
[AD-A138016] 12 p1893 N84-22330
On systems with spectral cluster points and their relation to H sup p spaces
[RR-235] 13 p2038 N84-23222
Conference on Vector Calculators, Winter Quarter 1983 16 p2548 N84-26355
Numerical mathematics by vector calculation: Theory and practical experiments 16 p2549 N84-26356
A vector space approach to time-variant energy spectral analysis
[AD-A140196] 16 p2553 N84-26378
Local linear independence of the translates of a box spline
[AD-A141749] 19 p3087 N84-29599
Analysis linking the tensor structure to the least-squares method
[AD-A142159] 19 p3089 N84-29611
Interpolation of weighted L sub P and Sobolev spaces on intervals
[CTH-MATH-1984-04] 19 p3090 N84-29622
Wave fronts to infinity of real analytic functions
22 p3634 N84-33031
On the closure of spaces of sums of ridge functions and the range of the X-ray transform
22 p3635 N84-33035

VECTORS (MATHEMATICS)
NT EIGENVECTORS
NT STATE VECTORS
NT VORTICITY
Systematic computer aided control design
01 p0015 N84-10100
Robust prediction and interpolation for Vector stationary processes
[AD-A130973] 02 p0284 N84-11859
Dynamic analysis of the fluidyne
[DE83-017283] 03 p0364 N84-12500
Vectorized Monte Carlo photon transport
[DE83-014807] 03 p0434 N84-12843
Vectorizing and machine-spanning techniques
[DE84-000469] 04 p0578 N84-13810
Acceleration of convergence of vector sequences
[NASA-TP-2193] 04 p0588 N84-13885
CRAY-1 instruction analysis: A comparison of two methods
[DE83-012778] 05 p0730 N84-14794
Vectorization of algorithms for solving systems of elliptic difference equations
[DE83-014125] 05 p0738 N84-14848
Population control of self-replicating systems: Option C 06 p0930 N84-16044
A portable vector-code for autonomous multigrid modules
[MC-NW-154/83] 07 p1065 N84-16914
A vector concept based on set theory
[INPE-2977-PRE/439] 07 p1068 N84-16936
Analysis of SEASAT wind observations in the Gulf of Mexico and the Caribbean Sea
[PB84-131309] 09 p1350 N84-18824
Modeling material failure with a vectorized routine
10 p1561 N84-20226
Algorithms for solving large sparse systems of simultaneous linear equations on vector processors
10 p1561 N84-20227
Preliminary results in implementing a model of the world economy on the CYBER 205: A case of large sparse nonsymmetric linear equations 10 p1561 N84-20228
Monte Carlo calculations of elementary particle properties 10 p1561 N84-20229
The vectorization of a ray tracing program for image generation 10 p1561 N84-20231
Factorization using the quadratic sieve algorithm
[DE84-004996] 10 p1572 N84-20299
Polarization radiation in the planetary atmosphere delimited by a heterogeneous diffusely reflecting surface
[NASA-TM-77296] 11 p1731 N84-21292
Transient processes in an inductor system consisting of a flat coil and a multilayer conducting medium
[AD-A139053] 13 p2039 N84-23232
A device for the acceleration of convergence of a monotonously enclosing iteration method
16 p2541 N84-26307
Scanning wind-vector scatterometers with two pencil beams 17 p2713 N84-27271
Singular value decomposition with systolic arrays
[NASA-CR-172396] 20 p3279 N84-30617
Computation of inviscid transonic flow using flux vector splitting in generalized coordinates
21 p3323 N84-31087
A model of asynchronous iterative algorithms for solving large, sparse, linear systems
[NASA-CR-172418] 21 p3469 N84-31988
Fast solutions to the steady state compressible and incompressible fluid dynamic equations
[NASA-CR-172416] 22 p3530 N84-32349
Solving low density knapsacks
[DE84-006964] 22 p3641 N84-33085
Uniform asymptotic solution of the problem of diffraction for a linear quadrupole source
[ISSN-0208-5658] 23 p3729 N84-33631

VEGETABLES
NT SPINACH
Pea amyloplast DNA is qualitatively similar to pea chloroplast DNA 09 p1359 N84-18877
Interactions of light and gravity on growth, orientation, and lignin biosynthesis in mung beans
09 p1359 N84-18879
Isolation and characterization of beta-glucan synthase: A potential biochemical regulator of gravistimulated differential cell wall loosening 09 p1359 N84-18882
Utilization of alternative fuels in diesel engines
[NASA-CR-174669] 17 p2628 N84-26813

VEGETATION
NT CANOPIES (VEGETATION)
Microwave radiometric sensitivity to soil moisture under vegetation cover 01 p0098 N84-10640
Carbon in live vegetation of major world ecosystems
[DE83-015328] 01 p0101 N84-10654
Estimating temperature and moisture regimes in forest and rangeland soils using thermal remote sensing
[PB83-237453] 02 p0241 N84-11577
Introduction: Historical perspective on the HCMM program 05 p0695 N84-14584
On the estimation of zero-plane displacement for tall vegetation
[INPE-2946-PRE/430] 07 p1023 N84-16634
A system for measuring fluxes of trace gases to and from soil and vegetation with a chamber technique
[CM-61] 07 p1028 N84-16662
Rush field experiments: Growth and initial decay of the mixed layer over an autumn landscape
[DE84-001671] 07 p1040 N84-16743
Remote sensing for agriculture and land use
08 p1177 N84-17666
Radar response from vegetation with nodal structure
[E84-10085] 10 p1520 N84-19956
Vegetation responee to carbon dioxide research plan
[DE84-006219] 11 p1676 N84-20934
Interpreting Michigan forest cover types from color infrared aerial photographs
[E84-10097] 12 p1828 N84-21917
Evaluation of a native vegetation masking technique
[E84-10106] 12 p1829 N84-21926
Fundamental remote sensing science research program. Part 1: Scene radiation and atmospheric effects characterization project
[NASA-TM-86078] 12 p1830 N84-21929
Scattering models in the microwave regime
12 p1831 N84-21937
Discrete random media techniques for microwave modeling of vegetated terrain 12 p1832 N84-21939
Measuring and modeling of the dielectric properties and attenuation of vegetation 12 p1832 N84-21940
Measuring and modeling of the dielectric properties and attenuation of vegetation 12 p1834 N84-21953
Riparian habitat on the Humboldt River, Deeth to Elko, Nevada
[E84-10116] 14 p2167 N84-23976
Revegetation methods for arid areas, revised
[AD-A139088] 14 p2170 N84-23997
The role of vegetation in the low-level water budget in fog
[AD-A139099] 14 p2179 N84-24051
Vegetation, land-use and seasonal albedo data sets: Documentation of archived data tape
[E84-10133] 15 p2357 N84-25142
A geographic information system for forest management
[FOA-C-20531-D8] 15 p2418 N84-25516
Principal components technique analysis for vegetation and land use discrimination — Brazilian cerrados
[E84-10135] 16 p2506 N84-26083
Understanding and utilization of Thematic Mapper and other remotely sensed data for vegetation monitoring
[E84-10150] 16 p2508 N84-26098
Interactive digital image processing for terrain data extraction, phase 4
[AD-A140197] 16 p2510 N84-26107
Discriminating vegetation and soils using LANDSAT MSS and Thematic Mapper bands and band ratios
[AD-A140198] 16 p2510 N84-26108
Land-surface influences on weather and climate
[NASA-CR-173595] 16 p2529 N84-26234
Impact of vegetative hydrocarbon emissions on ambient ozone levels and control program development
[DE84-008515] 18 p2878 N84-28273
Delineation of wetland boundaries using vegetation within the Altamaha River Basin of Georgia
[AD-A142590] 20 p3228 N84-30515
Vegetation and climates of the last 45,000 years in the vicinity of the Nevada Test Site, south-central Nevada
[DE84-009032] 20 p3247 N84-30610
Prescription of land-surface boundary conditions in GISS GCM 2: A simple method based on high-resolution vegetation data bases
[NASA-TM-86096] 21 p3430 N84-31761
Cirques of the Marble Mountains, northwestern California 23 p3795 N84-34065

VEGETATION GROWTH
NT CROP GROWTH
Modeling SO2 effects on the productivity and growth of plants
[DE83-010259] 07 p1027 N84-16655
An attempt to localize and identify the gravity sensing mechanism of plants 09 p1352 N84-18833
The role of calcium in the gravitropic response of roots 09 p1352 N84-18834
Mechanical regulation of plant growth and development 09 p1355 N84-18858
Measurement of thigmomorphogenesis and gravitropism by non-intrusive computerized video image processing
09 p1356 N84-18859
Biophysical mechanism of differential growth during gravitropism 09 p1356 N84-18861
Interactions of light and gravity on growth, orientation, and lignin biosynthesis in mung beans
09 p1359 N84-18879
Increase of cold tolerance in cotton plant (Gossypium hirsutum L.) by mepiquat chloride
[E84-10088] 10 p1521 N84-19959
Reflectance measurements of cotton leaf senescence altered by mepiquat chloride
[E84-10089] 10 p1521 N84-19960
Biological processes in the water column of the South Atlantic Bight
[DE84-004336] 11 p1692 N84-21035
An evaluation of thematic mapper simulator data for the geobotanical discrimination of rock types in Southwest Oregon
[NASA-CR-166569] 12 p1828 N84-21915
Comprehensive understanding for vegetated scene radiance relationships 12 p1833 N84-21947
Scattering models in the microwave regime
12 p1834 N84-21950
Remote sensing of Earth terrain
12 p1834 N84-21951

Discrete random media techniques for microwave modeling of vegetated terrain 12 p1834 N84-21952
Determination of the sources of radar scattering 12 p1834 N84-21954
Microwave radiometer experiment of soil moisture sensing at BARC test site during summer 1981 [NASA-TM-86056] 14 p2168 N84-23989

VEGETATIVE INDEX
The use of airborne thematic mapper simulation data for the estimation and mapping of Green Leaf Area Index (GLAI) 03 p0398 N84-12602
AgRISTARS: Agriculture and resources inventory surveys through aerospace remote sensing [E84-10091] 10 p1522 N84-19962
Evaluation of a native vegetation masking technique [E84-10108] 12 p1829 N84-21926
Intercepted photosynthetically active radiation estimated by spectral reflectance — Phoenix, Arizona [E84-10109] 12 p1829 N84-21927
Evaluation of spatial, radiometric and spectral Thematic Mapper performance for coastal studies [E84-10118] 14 p2167 N84-23978
Evaluation of spatial, radiometric and spectral Thematic Mapper performance for coastal studies [E84-10159] 17 p2709 N84-27251
Habitability of the Earth 21 p3427 N84-31740
NASA pilot land data system 21 p3427 N84-31741

VEHICLE WHEELS
NT NOSE WHEELS
Investigation of the strength of a flycatcher wheel suspension [IWECO-5075410-83-01] 12 p1827 N84-21912
EPA (Environmental Protection Agency) evaluation of the Gyroscopic Wheel Cover device under section 511 of the Motor Vehicle Information and Cost Savings Act [PB84-143577] 12 p1921 N84-22514

VEHICLES
Error in CALSPAN 3-dimensional crash vehicle simulation computer program for the case of massless segments [AD-A141783] 19 p3078 N84-29528

VEINS
Nomogram for demonstrating change in central venous and pulmonary artery pressure during decompression of different parts of the body 20 p3255 N84-30660

VELOCITY
NT ACOUSTIC VELOCITY
NT AIRSPEED
NT ANGULAR VELOCITY
NT CRITICAL VELOCITY
NT ESCAPE VELOCITY
NT EXHAUST VELOCITY
NT FLOW VELOCITY
NT GROUP VELOCITY
NT HIGH SPEED
NT HYPERSONIC SPEED
NT LIGHT SPEED
NT LOW SPEED
NT ORBITAL VELOCITY
NT PHASE VELOCITY
NT PROPAGATION VELOCITY
NT RADIAL VELOCITY
NT ROTOR SPEED
NT SOLAR VELOCITY
NT SOLAR WIND VELOCITY
NT SUBSONIC SPEED
NT SUPERSONIC SPEEDS
NT TIP SPEED
NT TRANSONIC SPEED
NT WIND VELOCITY
Detection of solar gravity mode oscillations [NASA-CR-174469] 01 p0165 N84-11086
Particle-velocity measurements of laser-induced shock waves using ORVIS [DE83-016503] 02 p0228 N84-11494
Study of the contained air flow in a radial tire: Experimental [DE84-000840] 04 p0545 N84-13591
Directed graphs and traveling waves [AD-A132861] 05 p0738 N84-14845
XCP measurements off California in October 1982: Cruise report and preliminary results [AD-A133051] 06 p0885 N84-15754
Characterization of initiation and detonation by Lagrange gage techniques [DE84-002462] 07 p0981 N84-16357
Velocity control decision-making ability: Relationship to flying capability and experience [AD-A136546] 09 p1363 N84-18901
First order ball bearing kinematics [NASA-TM-83592] 10 p1502 N84-19816
Plasma bubble irregularity occurrence and zonal velocities under quiet and disturbed conditions, from polarimeter observations [INPE-3023-PRE/461] 12 p1846 N84-22036
Simulation of winds as seen by a rotating vertical axis wind turbine blade [DE84-009033] 14 p2180 N84-24056
Numerical-analytical method for computing movement of 12-hour artificial earth satellites in near-circular orbits 19 p2972 N84-28841
Calculation of the pressure distribution on a pitching airfoil with application to the Darrieus rotor [DE84-013571] 22 p3532 N84-32363
Manipulation of the mixing process between streams of different velocity and temperature in the presence of pressure gradient [AD-A143467] 22 p3593 N84-32757
Petrography and ultrasonic wave velocity in the Admire Formation (Permian), Kansas 22 p3621 N84-32945
Modified Thomson parabola ion spectrometers for use in laser generated plasma experiments [AD-A143298] 22 p3658 N84-33190
Constant speed drive with compensation using differential gears [AD-D011156] 23 p3756 N84-33812
The mechanism of human velocity discrimination [AD-A144527] 24 p3936 N84-34918

VELOCITY COUPLING
Combustion modeling of composite solid propellants 03 p0351 N84-12285
Fluid-dynamically coupled solid propellant combustion instability - cold flow simulation 13 p1945 N84-22644
On the oscillatory flowfield in solid rocket motors 13 p1945 N84-22645

VELOCITY DISTRIBUTION
Flow-visualization study of the MOD-2 wind-turbine wake [DE83-014391] 01 p0080 N84-10523
The break-up mechanism of a streamwise directed vortex 03 p0325 N84-12123
Transition flow ion transport via integral Boltzmann equation [UTIAS-269] 03 p0432 N84-12828
Dissipative instabilities of magnetic neutral layers with velocity shear [IFSI-82-13] 03 p0451 N84-12965
Measurement of velocity distributions in turbulent jets using a laser Doppler velocimeter [AD-A132316] 04 p0533 N84-13506
Further studies on equal-order interpolation for Navier-Stokes [DE84-000916] 04 p0534 N84-13512
Creating unstable velocity-space distributions with barium injections 05 p0640 N84-14214
Higher-order derivative correlations and the alignment of small-scale structures in isotropic numerical turbulence [NASA-TM-84407] 05 p0679 N84-14464
The smoothest velocity field and token matching schemes [AD-A133633] 05 p0732 N84-14809
Design procedures for compressor blades [NASA-TM-77085] 06 p0852 N84-15552
Incident velocity distributions on sampling electrodes of spacecraft plasma instruments 08 p1117 N84-17267
Similar velocity profiles and integral quantities of a boundary layer on a rotating cylinder [VKI-NT-148] 08 p1160 N84-17553
Velocity and electronic state distributions of sputtered Fe atoms by laser-induced fluorescence spectroscopy [DE84-003649] 08 p1230 N84-18040
Remarks on the layout of the subsonic free jet wind tunnels [NASA-TM-77326] 09 p1258 N84-18214
On an extension of free stream-line theory [NAL-TR-772] 09 p1313 N84-18580
Application of maximum likelihood and Monte Carlo methods to local studies of stellar velocity fields 09 p1409 N84-19211
Norm estimates for a maximal right inverse of the divergence operator in spaces of piecewise polynomials [AD-A136889] 10 p1573 N84-20309
Crossed hot-wire data acquisition and reduction system [NASA-TM-85871] 11 p1656 N84-20807
A comment on atomic processes relevant to alpha particle diagnostics 11 p1736 N84-21323
Equatorial plasma bubble eastward velocity characteristics from scanning airglow photometer measurements over Cachoeira Paulista [INPE-3026-PRE/464] 12 p1847 N84-22039
Detection of bump-on-tail reduced electron velocity distributions at the electron foreshock boundary [NASA-TM-86067] 12 p1922 N84-22518
Definition, sources and lowest possible levels of wind-tunnel turbulence 14 p2096 N84-23576
The filling effect of blockages in wide angle diffusers [BU-284] 15 p2332 N84-25005
Spherical lapping velocities [DE84-005734] 15 p2344 N84-25070
Line formation in turbulent media 15 p2421 N84-25542
Gravito-magnetic origin of the temperature of a stellar corona 15 p2421 N84-25545
Observational and theoretical studies of rich clusters with multiple subcondensations [NASA-CR-173618] 16 p2575 N84-26528
Natural laminar flow experiments on modern airplane surfaces [NASA-TP-2258] 17 p2599 N84-26660
Effect of acoustic perturbations on flow structure in boundary layer with unfavorable pressure gradient 17 p2648 N84-26935
Interaction of turbulent boundary layer and upward density jump at transonic stream velocities 17 p2648 N84-26937
Turbulent boundary layer at plate with suction at various angles 17 p2648 N84-26938
A fundamental study of relation between the velocity fields far upstream of, at and far downstream of a a rotor disk in a shear flow — wind turbine flow [FFA-136] 17 p2667 N84-27006
Fluctuation of velocity distribution under influence of suspended particles on turbulence in bottom current 17 p2699 N84-27191
Influence of velocity shear on character of flow of incompressible stratified fluid around obstacle 17 p2707 N84-27237
Seyfert galaxy narrow-line regions: A spectroscopic investigation 17 p2774 N84-27612
Dynamical studies of clusters of galaxies 17 p2775 N84-27619
Detection of solar gravity mode oscillations [NASA-CR-173642] 17 p2781 N84-27655
Precipitation and precipitation efficiencies derived from single Doppler radar 18 p2887 N84-28321
On the elastic wave velocity distribution beneath the continental slope of the Kuril trench 19 p3061 N84-29421
Non-inertial flow of dilute polymer solutions in a sudden contraction [BLL-WH-558-(9091.9F)] 20 p3183 N84-30221
Long-term salinity, temperature and current measurements in upper Chesapeake Bay [PB84-180280] 20 p3251 N84-30636
Direct generation of seismic floor response spectra for classically and nonclassically damped structures [PB84-191675] 21 p3445 N84-31860
Wake profile measurements of fixed and oscillating flaps [NASA-CR-166602] 24 p3852 N84-34428
Laser velocimeter measurements of dynamic stall — conducted in the Ames two foot wind tunnel [NASA-CR-166603] 24 p3852 N84-34429
Crustal shear velocity modelling in Nevada: A study of broadband multi-mode surface waves 24 p3918 N84-34802

VELOCITY ERRORS
Distortion of the wind field by the Cabauw meteorological tower [KNMI-WR-83-15] 12 p1862 N84-22130
Tomographic velocity estimation in the presence of low velocity zones — seismic waves [FOA-C-20535-E1] 18 p2880 N84-28287

VELOCITY FIELDS
U VELOCITY DISTRIBUTION

VELOCITY MEASUREMENT
NT WIND VELOCITY MEASUREMENT
Multifrequency HF radar observations of currents and current shears [AD-A131526] 01 p0067 N84-10439
Comparison of calculated results from 2 analytical models with measured data from a heat-exchanger flow test [DE83-013071] 01 p0082 N84-10534
Laser velocimeter developments for surveying thin boundary layers in a Mach 6 high Reynolds number flow [AD-A130387] 01 p0083 N84-10541
Velocity interferometry for time-resolved high-velocity measurements [DE83-013968] 01 p0088 N84-10577
Numerical simulation of the velocity records from the SRI grout spheres experiment [AD-A131267] 01 p0096 N84-10627
Fabry-Perot velocimetry techniques: Is Doppler shift affected by surface-normal direction? [DE83-015902] 02 p0224 N84-11472
Laser velocimeter measurements and analysis in turbulent flows with combustion, part 2 [AD-A131682] 03 p0372 N84-12421
An interactive computer program for analysis of ultrasonic modulus data on anistropic materials [NPL-DMA(A)-68] 03 p0388 N84-12526

Effects of microstructure and pore fluids on the acoustic properties of granular materials
[AD-A131983] 03 p0406 N84-12868
Finite elements and the divergence constraint for viscous flows 04 p0530 N84-13486
Measurement of velocity distributions in turbulent jets using a laser Doppler velocimeter
[AD-A132316] 04 p0533 N84-13506
Multicomponent velocity measurement in a piston-cylinder configuration using laser velocimetry
[NASA-TM-83534] 05 p0627 N84-14121
Magnetic field coupled velocimeters
[AD-A134002] 05 p0679 N84-14466
Buckling of turbulent jets 05 p0683 N84-14488
Measurement of velocity and displacement of a transverse restraint testing machine
[MRL-TN-473] 05 p0683 N84-14493
Project Porcupine: The MF mutual impedance probe experiment. Part 1: Flight F2 (March 1977)
[CRPE-NT-93-VOL-1] 05 p0705 N84-14624
Project Porcupine: The MF mutual impedance probe experiment. Part 2: Flights F3 and F4 (March 1979)
[CRPE-NT-94-VOL-2] 05 p0705 N84-14625
Flow improvements in the circuit of the Langley 4- by 7-meter tunnel
[NASA-TM-85662] 06 p0781 N84-15117
The Norwegian Seismic Array (NORSAR). Phase 3
[AD-A134038] 08 p0878 N84-15713
A laser velocimeter system for large-scale aerodynamic testing
[NASA-TM-84393] 07 p0947 N84-16144
Laser velocimetry in the low-speed wind tunnels at Ames Research Center
[NASA-TM-85885] 07 p1007 N84-16526
Rules governing the distribution of a gas jet in a liquid. Communication 2
[BLL-M-35437-(5828.4)] 08 p1154 N84-17513
Teleseismic array analysis of upper mantle compressional velocity structure
[NASA-CR-173285] 08 p1185 N84-17723
Blood flow measurements under high-G conditions: Early prediction of Gz tolerance
[AD-A134653] 08 p1200 N84-17823
Computer programs for helicopter high speed flight analysis
[AD-A136376] 09 p1255 N84-18191
Mechanical details of a modified Hamilton Frame velocimeter
[AD-A136180] 09 p1318 N84-18613
Flow visualizations, velocity measurements, and surface convection measurements in simulated 20.8-cm Nova box amplifier cavities
[DE84-004354] 10 p1501 N84-19812
Fuel spray diagnostics 11 p1608 N84-20527
Development and implementation of advanced diagnostic techniques 11 p1608 N84-20528
Analysis and testing of a new method for drop size and velocity measurements using laser light scatter interferometry 11 p1608 N84-20529
Automatic holographic droplet analysis for liquid fuel sprays 11 p1609 N84-20531
Dilution jet experiments in compact combustor configurations 11 p1611 N84-20545
Exploration of arterial function using Doppler flow determination. Application to aeronautical and space medicine 11 p1700 N84-21091
Application of laser velocimetry to unsteady flows in large scale high speed tunnels
[NASA-CR-166575] 12 p1765 N84-21511
Equatorial plasma bubble eastward velocity characteristics from scanning airglow photometer measurements over Cachoeira Paulista
[INPE-3026-PRE/464] 12 p1847 N84-22039
Particle sizing in a fuel rich airbreathing engine combustor 13 p1943 N84-22634
In situ measurement of burning rate 13 p1944 N84-22639
Experimental investigation of shock-cell noise reduction for dual-stream nozzles in simulated flight comprehensive data report. Volume 2: Laser velocimeter data, static pressures and shadowgraph photos
[NASA-CR-168336-VOL-2] 14 p2220 N84-24324
Spinning disk calibration method and apparatus for laser Doppler velocimeter
[NASA-CASE-ARC-11510-1] 15 p2335 N84-25015
Instantaneous concentration and velocity measurements through laser visualization associated with a digital processing system 16 p2491 N84-25978
Laser speckle velocimetry in fluid dynamics applications 16 p2491 N84-25979
Automatically equalizing fluid manometer combined with a computer
[ESA-TT-811] 16 p2496 N84-26015
Techniques for measurements of horizontal and vertical velocities 17 p2686 N84-27104
Techniques for measurement of vertical and horizontal velocities: Monostatic versus bistatic measurements 17 p2686 N84-27105
A comment on some drawbacks of monostatic radars 17 p2686 N84-27106
On the measurement of vertical velocity by MST radar 17 p2687 N84-27111
Accuracy of vertical velocity determination 17 p2687 N84-27112
New data on upper mantle lateral inhomogeneities in western Eurasia 17 p2703 N84-27217
SNOW-ONE-A and B characterization measurements and data analysis
[AD-A141245] 18 p2890 N84-28345
An experimental and theoretical analysis of the aerodynamic characteristics of a biplane-winglet configuration
[NASA-TM-85815] 19 p2963 N84-28779
Coefficient of surface friction with turbulent flow in boundary layer 21 p3481 N84-32064
Effects of system and geometrical parameters on the flow of Class-B solids in overflow standpipes
[DE84-013948] 22 p3594 N84-32762
An experimental and theoretical investigation of deposition patterns from an agricultural airplane
[NASA-TP-2348] 23 p3689 N84-33379
Wake profile measurements of fixed and oscillating flaps
[NASA-CR-166602] 24 p3852 N84-34428
The effects of curvature on turbulent mixing layers
[AD-A144250] 24 p3900 N84-34697
Ultrasonic velocity measurement using phase-slope cross-correlation methods
[NASA-TM-83794] 24 p3911 N84-34769
IUE spectra of three A0 V stars rotating close to their break-up velocity: HD 119921, HD 129685, HD 181296 24 p3975 N84-35172
Calculations of the amplitude spectrum of the 27-day variations of galactic cosmic rays 24 p3993 N84-35271

VELOCITY PROFILES
U VELOCITY DISTRIBUTION

VENERA SATELLITES
USSR report: Space
[JPRS-USP-84-002] 12 p1774 N84-21566
Academician Barsukov interviewed on Venera results 12 p1775 N84-21578
Design modifications on Venera-15, -16 12 p1775 N84-21579
Development of Venera-15, -16 radars 12 p1775 N84-21580
First imagery from Venera-15, -16 shown 12 p1775 N84-21581
Venus: The nature of the surface from Venera panoramas 13 p2077 N84-23459
Research on 'Prognoz-9' and 'Astron' satellites 19 p2972 N84-28838
Venera-15, -16 radar imagery of Venus 19 p2974 N84-28855
Processing of 'Venera-15, -16' radar mapping imagery 19 p2974 N84-28856

VENEZUELA
SIR-A aids regional geology: Comparisons of SIR-A imagery with SLAR and LANDSAT over Guyana, Venezuela, Nicaragua and Mali 07 p0988 N84-16401

VENTILATION
Contrast between natural and experimentally controlled fires in forced ventilated enclosures
[DE83-013038] 01 p0057 N84-10373
Efficiency of high-frequency ventilation as determined by nitrogen washouts: A model study
[AD-A131331] 02 p0265 N84-11745
Ozone toxicity effects consequent to prolonged, high intensity exercise
[PB83-237388] 02 p0267 N84-11755
Effectiveness in reducing heat stress of three conditioned-air cooling vests worn with and without cooling air supplied to a face piece
[AD-A131975] 03 p0417 N84-12726
A preliminary investigation of the drag and ventilation characteristics of livestock haulers
[NASA-CR-170408] 05 p0761 N84-14990
Variable inhibition by falling CO2 of hypoxic ventilatory response in man
[AD-A130658] 06 p0887 N84-15768
Effects of ventilation and panel properties on temperature rise from aircraft fires
[DOT/FAA/CT-TN83/63] 07 p0949 N84-16157
The effects of high frequency positive pressure ventilation on hypoxic pulmonary vasoconstriction 10 p1549 N84-20151
Heat recovery subsystem and overall system integration of fuel cell on-site integrated energy systems
[NASA-CR-168309] 11 p1673 N84-20915
Prediction of resonance frequencies for ventilated wall wind tunnels 14 p2097 N84-23580
Computer program for studying turbulent convection in buildings 18 p2517 N84-26155
Investigation of the characteristics of a ventilated transparent shield
[BLL-M-35562-(5828.4)] 17 p2685 N84-26996
Biofeedback regulation of pulmonary ventilation 18 p2897 N84-28378
Frequency selected and amplitude limited personal noise protectors
[BMFT-FB-HA-84-016] 18 p2915 N84-28488
Calculation of natural ventilation and comfort
[DE84-009215] 19 p3071 N84-29485
Simplified method for estimating the cooling loads of passive solar systems
[DE84-009474] 20 p3235 N84-30538
Sensitivity to hypoxia in humans 21 p3456 N84-31934

VENTING
Hybrid space heating/cooling system with Trombe wall, underground venting, and assisted heat pump
[DE84-000406] 04 p0559 N84-13686
Modeling of zero gravity venting
[NASA-CR-173503] 14 p2145 N84-23854
High rate discharge studies of Li/SO2 batteries 23 p3737 N84-33680

VENTS
Space shuttle orbiter venting: Lessons learned 01 p0020 N84-10126

VENTURI TUBES
Comparison between vortex flowmeter and pressure flowmeters
[PTB-ME-47] 10 p1499 N84-19800

VENUS (PLANET)
NT VENUS SURFACE
Transport processes in planetary atmospheres 06 p0939 N84-16104
Planetary geometry handbook: Venus positional data, 1988 - 2020, volume 2
[NASA-CR-173192] 07 p1091 N84-17096
Construction of a model of the Venus surface and its use in processing radar observations
[NASA-TM-77298] 09 p1416 N84-19264
Venus topography: Clue to hot-lithosphere tectonics? 11 p1679 N84-20958
Venus analogues on the Earth's ocean floor(?): Volcanic terrains seen by SeaMARC 2 side scan sonar 11 p1755 N84-21456
Significant achievements in the planetary geology program
[NASA-CR-3782] 11 p1758 N84-21474
Academician Barsukov interviewed on Venera results 12 p1775 N84-21578
Design modifications on Venera-15, -16 12 p1775 N84-21579
Development of Venera-15, -16 radars 12 p1775 N84-21580
First imagery from Venera-15, -16 shown 12 p1775 N84-21581
Fourier spectrometry research on Venera-15, -16 12 p1775 N84-21582
Radiative forcing of the Venus mesosphere 16 p2580 N84-26549
Interplanetary mission design handbook. Volume 1, part 1: Earth to Venus ballistic mission opportunities, 1991-2005
[NASA-CR-173736] 18 p2801 N84-27779
Interpretation of gravitational anomalies on Mars, Venus and Earth 19 p2975 N84-28859
Atomic carbon in the Venus thermosphere: Observations and theory 21 p3525 N84-32332
The cart before the horse: Mariner spacecraft and launch vehicles 24 p3990 N84-35250

VENUS ATMOSPHERE
NT VENUS CLOUDS
Carbon monoxide in the atmospheres of the terrestrial planets 05 p0764 N84-15011
Carbon monoxide fourth positive ultraviolet airglow emissions on Venus 05 p0764 N84-15015
Thermal tides in the atmosphere of Venus 06 p0876 N84-15702
Some issues related to evolution of planetary atmospheres 06 p0939 N84-16103
Proposals for VIRA (Venus International Reference Atmosphere): Chemical composition of atmosphere below 100 km
[PR-830] 08 p1244 N84-18134
Proposals for VIRA (Venus International Reference Atmosphere): Solar and thermal radiation
[PR-829] 08 p1244 N84-18135
Morphology and movements of polarization features on Venus
[NASA-CR-166464] 08 p1245 N84-18137

Proposals for VIRA (Venus International Reference Atmosphere): Dynamics and structure below 100 km
[REPT-831] 11 p1758 N84-21475
Academician Barsukov interviewed on Venera results
12 p1775 N84-21578
Development of Venera-15, -16 radars
12 p1775 N84-21580
Fourier spectrometry research on Venera-15, -16
12 p1775 N84-21582
MM-wavelength measurements of CO in the atmosphere of Mars and SO2 in the atmosphere of Venus
13 p2072 N84-23429
Wind abrasion on Venus: A means for experimental investigations 13 p2076 N84-23455
Aeolian processes on Venus
13 p2076 N84-23456
Radiative forcing of the Venus mesosphere
16 p2580 N84-26549
Unbalanced infrared radiation and natural laser effect in atmospheres of Venus and Mars
19 p2975 N84-28858
Empirical studies of upper atmospheric species
[NASA-CR-172437] 21 p3443 N84-31847
Atomic carbon in the Venus thermosphere: Observations and theory 21 p3525 N84-32332

VENUS CLOUDS
Morphology and movements of polarization features on Venus
[NASA-CR-166464] 08 p1245 N84-18137
First imagery from Venera-15, -16 shown
12 p1775 N84-21581

VENUS ORBITING IMAGING RADAR (SPACECRAFT)
Department of Housing and Urban Development Appropriations Bill, 1984
[H-REPT-98-803] 14 p2249 N84-24508
Mission and trajectory design for the Venus orbiting imaging radar 19 p3120 N84-29831

VENUS PROBES
NT VENERA SATELLITES
Telecommunications and data acquisition support for the Pioneer Venus Project: Pioneers 12 and 13, prelaunch through March 1984
[NASA-CR-173893] 22 p3539 N84-32403
The Venus Radar Mapper: Radar system design for highly elliptical orbits 23 p3782 N84-33986

VENUS SURFACE
Construction of a model of the Venus surface and its use in processing radar observations
[NASA-TM-77298] 09 p1416 N84-19264
Venus topography: Clue to hot-lithosphere tectonics?
11 p1679 N84-20958
Volcanism and rift formation in Beta Regio, Venus: New radar results 11 p1754 N84-21450
SeaMARC 2 side-scan images of submarine volcanoes: Potential analogues for Venus 11 p1754 N84-21452
Venus: Global radar properties in a geological context
11 p1754 N84-21453
Design modifications on Venera-15, -16
12 p1775 N84-21579
First imagery from Venera-15, -16 shown
12 p1775 N84-21581
Characterization of surficial geologic units on Venus from Pioneer Venus radar data: A progress report
13 p2076 N84-23454
Aeolian processes on Venus
13 p2076 N84-23456
New maps of Lakshmi Planum and eastern Aphrodite, Venus 13 p2077 N84-23457
Venus banded terrain: Evaluation of tectonic models for the origin of banding 13 p2077 N84-23458
Venus: The nature of the surface from Venera panoramas 13 p2077 N84-23459
Geology of Maxwell Montes, Venus
13 p2077 N84-23460
Venus: Global distribution of Pioneer-Venus radar roughness and reflectivity and global correlation of altimetry, roughness and reflectivity observations
13 p2077 N84-23461
Velocities of windblown particles in saltation: Venus, Earth, and Mars 13 p2082 N84-23491
Venera-15, -16 radar imagery of Venus
19 p2974 N84-28855
Roughness of surface of Venus from bistatic radar data 19 p2975 N84-28857

VERBAL COMMUNICATION
Objectivization of evaluation of speech intelligibility during flights 02 p0261 N84-11713
Determination of a subjects condition according to pitch of the vocal vowel 'A' 02 p0261 N84-11714

VERIFICATION (PROVING)
U PROVING

VERTEBRAL COLUMN
Cervical spline analysis for ejection injury prediction
[AD-A131081] 01 p0114 N84-10739
Bone mineral analysis of rat vertebrae following space flight: COSMOS 1129
[AD-A133178] 07 p1042 N84-16757
Design and development of an automatically controlled variable-load energy absorber
[AD-A142683] 20 p3128 N84-29868

VERTEBRATES
NT AMPHIBIA
NT BABOONS
NT BIRDS
NT CATS
NT CATTLE
NT CHICKENS
NT DOGS
NT FISHES
NT FROGS
NT HUMAN BEINGS
NT MAMMALS
NT MICE
NT MONKEYS
NT PIGEONS
NT PRIMATES
NT RABBITS
NT RATS
NT RODENTS
NT SHEEP
NT WHALES
Vertebrate behavior and ecology
[DE84-007318] 20 p3257 N84-30673

VERTICAL AIR CURRENTS
New relationships for turbulent plumes
[NAL-TR-763] 04 p0532 N84-13495
A preliminary study of the observed vertical mode structure of the summer circulation over tropical South America
[INPE-2914-PRE/426] 07 p1031 N84-16689
Dynamics of freely ascending convective jets initiated by active admixture 11 p1669 N84-20893
Transient convection over the Amazon/Bolivia region and the dynamics of drought over northeast Brazil
[INPE-3226-PRE/577] 24 p3922 N84-34823

VERTICAL DISTRIBUTION
NT STAR DISTRIBUTION
Lidar studies of the alkali metals
[INPE-2892-PRE/411] 02 p0193 N84-11252
Frequency and mode shape calculations for vertical axis wind turbines using reduction techniques and complex eigensolvers
[DE84-003316] 08 p1172 N84-17833
Vertical temperature gradient in troposphere and its relationship to surface temperature according to empirical data 11 p1671 N84-20902
Solar cycle related range type spread F occurrence characteristics over equatorial and low latitude stations in Brazil
[INPE-3024-PRE/462] 12 p1846 N84-22037
A sample performance of the grille spectrometer aboard Spacelab
[AERONOMICA-ACTA-A-281-1984] 16 p2494 N84-26003
Variability of vertical distributions of sea water temperature and light extinction index in section across Mascarene Ridge 18 p2857 N84-28142
Trace constituents measurements deduced from spectrometric observations onboard Spacelab
[AERONOMICA-ACTA-A-286-1984] 20 p3239 N84-30565
Stratospheric NO and NO2 profiles at sunset from analysis of high-resolution balloon-borne infrared solar absorption spectra obtained at 33 deg N and calculations with a time-dependent photochemical model
[NASA-TM-86285] 20 p3240 N84-30566

VERTICAL FINS
U FINS

VERTICAL FLIGHT
Optimal symmetric flight with an intermediate vehicle model 07 p0943 N84-16117
Optimal symmetric flight with an intermediate vehicle model
[NASA-CR-173181] 07 p0951 N84-16167

VERTICAL MOTION
A composite analysis of a tropical squall-line system
04 p0565 N84-13727
System modeling and identification of equivalent systems with and without compensating time delay for control-augmented aircraft
[DFVLR-FB-83-36] 15 p2259 N84-24570
On the measurement of vertical velocity by MST radar
17 p2687 N84-27111
Accuracy of vertical velocity determination
17 p2687 N84-27112

VERTICAL ORIENTATION
Time controlled descent guidance algorithm for simulation of advanced ATC systems
[NASA-TM-84373] 01 p0007 N84-10043
Assessment of means for determining deflection of the vertical
[AD-A131266] 01 p0100 N84-10851
A numerical study of the structure and vertical transport properties of a tropical convective system
02 p0252 N84-11651
Vertical shaft windmill
[NASA-CASE-LAR-12923-1] 03 p0383 N84-12493
Wind speed and direction shears with associated vertical motion during strong surface winds
[NASA-TM-82566] 06 p1190 N84-17756
The vertical propagation of internal gravity waves in a compressible atmosphere 10 p1536 N84-20080
Utilization of double integration methodology to determine an aircraft's vertical displacement
[AD-P002681] 11 p1658 N84-20818
Value of the tilt table in the exploration of circulatory function 11 p1701 N84-21095
Comparison of finite element predictions and experimental data for the forced response of the DOE 100 kW vertical axis wind turbine
[DE84-007977] 14 p2159 N84-23932
Simulation of winds as seen by a rotating vertical axis wind turbine blade
[DE84-009033] 14 p2180 N84-24056
Multivariate perpendicular interpolation
[AD-A139254] 14 p2212 N84-24284
Exact image theory for the Sommerfeld half-space problem with a vertical electric di-pole
[REPT-S-144] 15 p2320 N84-24926
Multisensor calibration procedure for an all weather short range air defense system concept
[AD-A141337] 18 p2791 N84-27715
Vertical movements and magnetic variations before earthquakes 18 p2860 N84-28163
New types of transient processes observed in electromagnetic sounding 18 p2860 N84-28164
Direct measurement of Earth's vertical deflection using global positioning system
[AD-D011099] 22 p3534 N84-32373
Vertical mode decomposition and model resolution
[INPE-3230-PRE/580] 24 p3918 N84-34805

VERTICAL STABILIZERS
U STABILIZERS (FLUID DYNAMICS)

VERTICAL TAILS
U STABILIZERS (FLUID DYNAMICS)
U TAIL ASSEMBLIES

VERTICAL TAKEOFF
Aerodynamics of V/STOL aircraft: Performance assessment 16 p2437 N84-25635
Calculation of vertical and ramp-assisted takeoffs for supersonic cruise fighters
[NASA-TM-85818] 17 p2600 N84-26668

VERTICAL TAKEOFF AIRCRAFT
NT FLYING PLATFORMS
The integration of flight and engine control for VSTOL aircraft 03 p0317 N84-12070
Assessment of aerodynamic performance of V/STOL and STOVL fighter aircraft
[NASA-TM-85937] 13 p1926 N84-22536
Independent cost estimates: A case study joint vertical lift aircraft (JVX) program
[AD-P002797] 13 p2057 N84-23343
Axisymmetric thrust augmenting ejector with discrete primary air slot nozzles
[AD-D011129] 22 p3536 N84-32386

VERTICAL TAKEOFF AND LANDING
U VERTICAL TAKEOFF

VERTICES
U APEXES

VERY HIGH FREQUENCIES
An estimate of HF/VHF surface-wave communication link reaches in the West German forest environment
[AD-A131262] 01 p0067 N84-10441
Physical modeling of EM propagation over nonhomogeneous terrain 03 p0364 N84-12370
Broadband base isolated asymmetrically fed VHF antenna 06 p0827 N84-15393
Comparative antenna measurements in real environment: Steerable null antenna at 30 - 76 MHz
[FOA-C-30303-E2] 08 p1146 N84-17459
Silent radar: A study of the performances of a navigational radar with limited range
[FOA-C-30334-E1] 08 p1146 N84-17461
Intermodulation between v.h.f./f.m. broadcast transmitters and the protection of adjacent-band aeronautical services
[BBC-RD-1984/2] 13 p1975 N84-22819
A circuit design for multiplexed digital correlation at 60 MHz
[AD-A139117] 14 p2142 N84-23842
VHF and UHF propagation in the Canadian high Arctic
15 p2326 N84-24969
A reassessment of the measurement uncertainty of the XT-90 twin T dual admittance bridge
[AD-A139253] 16 p2483 N84-25923

Morphology of the scattering target: Fresnel and turbulent mechanisms 17 p2684 N84-27087
Range gate dependence of specular echoes 17 p2684 N84-27088
Is VHF Fresnel reflectivity due to low frequency buoyancy waves? 17 p2684 N84-27089
The relationship between strength of turbulence and backscattering radar power at HF and VHF 17 p2689 N84-27125
Complementary code and digital filtering for detection of weak VHF radar signals from the mesoscale — SOUSY-VHF radar, Harz Mountains, Germany 17 p2690 N84-27134
VHF radar measurements during MAP/WINE 17 p2691 N84-27135
Chung-Li, Taiwan dual mode (Doppler and spaced antenna) VHF radar: Preliminary specifications 17 p2691 N84-27141
Design considerations of a proposed UK VHF radar 17 p2692 N84-27142
Design considerations for high-power VHF radar transceivers (keynote paper) 17 p2692 N84-27143
Design considerations for high-power VHF radar transceivers: Distributed versus single large tranamitter 17 p2692 N84-27144
Properties of echo spectra observed by MST radars 17 p2696 N84-27171
First observations of 140 MHz plasma line backscatter during healthy experiments at Tromsoe [UIO-SR-84-02] 20 p3243 N84-30588
Spectrum resource assessment in the 162-174 MHz frequency band — land mobile communications [PB84-210244] 22 p3578 N84-32667

VERY HIGH FREQUENCY RADIO EQUIPMENT
Interface control document for AN/ARC-186 VHF-AM/FM radio [AD-A136939] 10 p1481 N84-19679

VERY HIGH SPEED INTEGRATED CIRCUITS
U VHSIC (CIRCUITS)

VERY LARGE SCALE INTEGRATION
Restructurable VLSI program [AD-A131246] 01 p0072 N84-10472
A program of research on microfabrication techniques for VLSI magnetic devices [AD-A131706] 03 p0452 N84-12978
VLSI architectures for computing multiplications and inverses in GF(2-m) 04 p0518 N84-13406
Wafer-scale integration of systolic arrays [AD-A132536] 04 p0525 N84-13450
Planar embedding of planar graphs [AD-A132538] 04 p0579 N84-13820
Laser photodeposition and photoetching study [AD-A134095] 05 p0752 N84-14934
Joint services electronics program [AD-A132992] 05 p0754 N84-14948
VLSI research [AD-A134628] 06 p1151 N84-17491
Research in VLSI systems. Heuristic programming project and VLSI theory project. A fast turn around facility for very large scale integration (VLSI) [AD-A134809] 06 p1151 N84-17494
Foundations of computer science 4. Distributed systems. Part 1: Algorithms and complexity [MATH-CENTRE-TRACTS-158-PT-1] 06 p1207 N84-17873
Design and complexity of VLSI algorithms 06 p1208 N84-17876
Systolic computation and VLSI 06 p1208 N84-17877
VLSI, algorithms and graphics 06 p1208 N84-17878
Foundations of computer science 4. Distributed systems. Part 2: Semantics and logic [MATH-CENTRE-TRACTS-159-PT-2] 06 p1208 N84-17879
Partially ordered computations with applications to VLSI design 06 p1208 N84-17880
Statistical data processing, system modeling and reliability [AD-A135208] 06 p1223 N84-17984
VLSI (Very Large Scale Integrated) design of a 16 bit very fast pipelined carry look ahead adder [AD-A136356] 09 p1306 N84-18540
LSI (Large Scale Integrated) design for testability: Design, demonstration and testability analysis [AD-A135899] 09 p1308 N84-18550
UCLA demodulation engine [AD-A135912] 09 p1309 N84-18556
Investigation of metallic impurities introduced into SIO/sub 2 [AD-A136006] 09 p1396 N84-19117
Army digital test requirements analytic report [AD-A137394] 10 p1486 N84-19714
Research in VLSI systems [AD-A137398] 10 p1486 N84-19715
Radar signal processing architectures and algorithms in digital VLSI (Very Large Scale Integration) [PB84-140110] 11 p1645 N84-20756
A data structure for VLSI synthesis and verification [AD-A137880] 11 p1647 N84-20769
Product assurance technology for procuring reliable, custom LSI/VLSI electronics [NASA-CR-173405] 12 p1812 N84-21810
Highly parallel processing of relational databases [AD-A137961] 12 p1877 N84-22231
The synthesis and validation of experimental VLSI design using decoupled behavioral, structural and physical specifications 13 p1987 N84-22902
A structured design of multiple-valued LSI/VLSI with built-in testing capability [AD-P002328] 14 p2189 N84-24119
Efficient realizations in hardware implementations for digital signal processing [AD-A139112] 14 p2202 N84-24218
On mapping cube graphs on VLSI array and tree architectures [AD-A139306] 14 p2205 N84-24234
A parallel QR method using fast Givens' rotations [AD-A139184] 14 p2212 N84-24281
Low temperature (150 to 250(0)C) deposition of n(+) and p(+) microcrystalline silicon for VLSI device contacts [DE84-006474] 14 p2243 N84-24470
Submicron systems architecture [AD-A139819] 15 p2270 N84-24630
Restructurable VLSI program [AD-A139959] 15 p2329 N84-24987
How to assemble tree machines [AD-A139963] 15 p2330 N84-24988
Hierarchical design and verification for VLSI 15 p2388 N84-25323
On mapping homogeneous graphs on a linear array-processor model [AD-A139912] 15 p2398 N84-25386
The MOSIS (MOS implementation) system (What it is and how to use it) [AD-A139744] 15 p2418 N84-25517
An evaluation of the directed flow graph methodology [NASA-CR-173593] 16 p2543 N84-26324
Development of VLSI memories [BMFT-FB-T-84-022] 16 p2560 N84-26423
Princeton VLSI project [AD-A140588] 17 p2663 N84-26986
High density circuit technology [NASA-CR-162039] 19 p3012 N84-29089
High density circuit technology [NASA-CR-162041] 19 p3012 N84-29091
High density circuit technology, part 1 [NASA-CR-162008] 19 p3012 N84-29094
Design study of floating point systolic VLSI chip [AD-A141868] 19 p3013 N84-29102
Research into self-timed VLSI circuits [AD-A141871] 19 p3014 N84-29103
VLSI research [AD-A142142] 19 p3016 N84-29119
VLSI systems of digital signal processing for consumer applications [BMFT-FB-T-84-060] 19 p3019 N84-29143
Design methodology for back-end database machines in distributed environments [AD-A142122] 19 p3072 N84-29491
Reed Solomon codes for error control in byte organized computer memory systems [NASA-CR-173803] 19 p3080 N84-29542
Research in VLSI (Very Large Scale Integration) systems [AD-A142511] 20 p3178 N84-30185
Parallelism in manipulator dynamics. Revision [AD-A142515] 20 p3196 N84-30299
A minimum area VLSI (Very Large Scale Integrated) architecture for O(logn) time sorting [AD-A142414] 20 p3266 N84-30723
Current research in parallel microprocessing systems at Los Alamos [DE84-011342] 20 p3277 N84-30804
Standard ISAs (Instruction Set Architectures) and VLSI (Very Large Scale Integration): Two interacting trends [AD-P003563] 21 p3336 N84-31168
Princeton VLSI project [AD-A142959] 21 p3391 N84-31521
HEART OF GOLD: Computer routines for large sparse, least squares computations [PB84-196492] 21 p3467 N84-31987
Multi-valued LSI/VLSI logic design 22 p3580 N84-32670
Wafer-scale laser pantography. Part 6: Direct-write interconnection of VLSI gate arrays [DE84-012676] 22 p3601 N84-32815
Dynamic programming and transitive closure on linear pipelines [AD-A143527] 22 p3640 N84-33079
Custom integrated circuits 22 p3684 N84-33361
CEMA cooperation in microelectronics research, production 23 p3728 N84-33629
VLSI (Very Large Scale Integrated) self-testing using exhaustive bit patterns [AD-A144299] 24 p3898 N84-34681
A systolic algorithm for integer GCD computation [AD-A144409] 24 p3951 N84-35019

VERY LONG BASE INTERFEROMETRY
Studies of satellite geodesy, Very Long Baseline Interferometry (VLBI) and geodetic measuring techniques [BONN-MITT-65] 02 p0233 N84-11528
First experiences with the Mark 3 Very Long Baseline Interferometry (VLBI) data analysis system 02 p0234 N84-11536
Orbit determination of highly elliptical Earth orbiters using VLBI and delta VLBI measurements 04 p0518 N84-13402
Results of the Australian geodetic VLBI experiment 04 p0520 N84-13416
Nuclear structure of quasars at 329 megaHertz 05 p0763 N84-15002
Mission definition study for a VLBI station utilizing the Space Shuttle [NASA-CR-175126] 06 p0794 N84-15173
The importance of radio interferometry for geodynamics 08 p1173 N84-17644
The observation of artificial satellites and VLBI 10 p1519 N84-19946
Observation model and parameter partials for the JPL VLBI parameter estimation software MASTERFIT-V1.0 [NASA-CR-173455] 12 p1879 N84-22245
Correcting radio astronomy interferometry observations for ionospheric refraction 15 p2324 N84-24957
Proceedings of a workshop: Multidisciplinary Use of the Very Long Baseline Array [NASA-CR-173541] 15 p2338 N84-25034
Arcsecond positions for milliarcsecond VLBI nuclei of extragalactic radio sources, part 2: 207 sources 16 p2478 N84-25890
Submilliarcsecond VLBI observations of the close pair GC 1342+662 and GC 1342+663 16 p2478 N84-25891
Three-element radiointerferometer with very long baselines 19 p2974 N84-28853
A comparison between Lageos laser ranging and VLBI determined baselines 20 p3220 N84-30459
Recommended program activities, 1988-1998 20 p3223 N84-30478
Telecommunications and data acquisition support for the Pioneer Venus Project: Pioneers 12 and 13, prelaunch through March 1984 [NASA-CR-173893] 22 p3539 N84-32403
Earth orientation effects on mobile VLBI baselines 22 p3575 N84-32642
Mojave base station implementation 22 p3575 N84-32643
Future of laser interformetry in space 24 p3906 N84-34737

VERY LOW FREQUENCIES
Physical modeling of EM propagation over nonhomogeneous terrain 03 p0364 N84-12370
VLF wave injections from the ground 05 p0634 N84-14173
Review of ionospheric VLF and ELF generation 05 p0634 N84-14174
Theoretical predictions for VLF radio propagation [AD-A133168] 06 p0823 N84-15364
Whistler mode interactions and plasma sheet electrons [AD-A134327] 07 p0993 N84-16436
OMEGA global radionavigation: A guide for users [PB84-134345] 10 p1427 N84-19331
Observations of VLF transmitter-induced depletions of inner zone electrons [AD-A137982] 12 p1847 N84-22042
Active ionospheric generation on ELF/VLF waves [AD-A139317] 14 p2176 N84-24034
CONUS (Continental United States) Omega/VLF data collection: Flight test [AD-A140252] 16 p2446 N84-25688
The influence of localized precipation-induced D-region ionization enhancements on subionospheric VLF progation 17 p2726 N84-27348
Cyclotron resonant scattering of energetic electrons by electromagnetic waves in the magnetosphere 22 p3621 N84-32946

VESSELS
Invention of a tunable damper for use with an acoustic waveguide in hostile environments [DE84-013109] 20 p3292 N84-30897

VESTIBULAR TESTS
Vestibulo-ocular reflex gain in man during active versus passive oscillation and the influence of voluntary gaze-control tasks
[AD-A132006] 03 p0415 N84-12717
Technology evaluation of man-rated acceleration test equipment for vestibular research
[NASA-CR-172160] 04 p0574 N84-13781
Motion sickness — literature study
[IZF-1983-21] 12 p1866 N84-22158
The design and development of a release mechanism for space shuttle life-science experiments
15 p2347 N84-25079
Motion illness: A bibliography
[AD-A139342] 15 p2379 N84-25276
A re-evaluations of cancellation theory: Visual, vestibular and oculomotor contributions to perceived object motion
[AD-B082936] 19 p3067 N84-29455
VESTIBULES
An age comparison of the vestibulo-ocular counterroll reflex
[AD-A132064] 03 p0415 N84-12716
Cellular localization of Na(+), K(+)-ATPase in the mammalian vestibular system 09 p1359 N84-18880
VESTS
Effectiveness in reducing heat stress of three conditioned-air cooling vests worn with and without cooling air supplied to a face piece
[AD-A131975] 03 p0417 N84-12726
Position and restraint system for aircrewman
[AD-D011058] 22 p3532 N84-32364
VETERINARY MEDICINE
USSR report: Life sciences. Biomedical and behavioral sciences
[JPRS-UBB-84-017] 21 p3455 N84-31924
VFR (RULES)
U VISUAL FLIGHT RULES
VHF OMNIRANGE NAVIGATION
Evaluation of radio navigation systems and their configuration with respect to minimum cost
[DFVLR-FB-83-32] 10 p1426 N84-19329
VHSIC (CIRCUITS)
Fast convolution algorithms and associated VHSIC architectures
[AD-A133851] 05 p0674 N84-14432
VHSIC technology working group report (IDA/OSD R&M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A137720] 11 p1646 N84-20766
Active reliability engineering, technical concept and program plan. A solid-state systems approach to increased reliability and availability in military systems
[AD-A137541] 11 p1666 N84-20866
VHSIC (Very High Speed Integrated Circuits) for training systems
[AD-P003484] 21 p3513 N84-32251
VIBRATION
NT BENDING VIBRATION
NT COMBUSTION VIBRATION
NT FLUTTER
NT FORCED VIBRATION
NT FREE VIBRATION
NT LATTICE VIBRATIONS
NT PANEL FLUTTER
NT RANDOM VIBRATION
NT RESONANT VIBRATION
NT STRUCTURAL VIBRATION
NT SUBSONIC FLUTTER
NT SUPERSONIC FLUTTER
NT TORSIONAL VIBRATION
NT TRANSONIC FLUTTER
Vibration analysis of turbomachinery blades by shell theory 01 p0009 N84-10053
Low temperature behavior of fuels in simulated aircraft tanks
[AD-A130267] 01 p0052 N84-10336
Laser-induced bound states at surfaces: Ion neutralization and adsorption
[AD-A130278] 01 p0086 N84-10562
The use of affine transformations in the analysis of stability and vibrations of orthotropic plates
01 p0093 N84-10603
The physiological effects of simultaneous exposures to heat and vibration
[NASA-TM-84400] 01 p0113 N84-10732
The flexural behavior of PACSAT (passive communication satellite) in orbit
[AD-A131406] 02 p0184 N84-11195
Visualization of patterns corresponding to the Fourier components of a vibration by interference holography
[TPD-1982-0-1] 02 p0222 N84-11453
Vibration monitoring using a computer-network approach
[DE83-012123] 02 p0232 N84-11523
Use of desktop computers for data acquisition
[DE83-014277] 02 p0270 N84-11768
Development and flight test of an active flutter suppression system for the F-4F with stores. Part 3. Flight demonstration of the active flutter suppression system
[AD-A131972] 03 p0337 N84-12191
Quality control and sample comparison by differential modal analysis
[MBB-BB-543-83-OE] 03 p0386 N84-12514
International Conference on Vibrations at Surfaces (3rd)
[AD-A131794] 03 p0433 N84-12834
The response of a laminar boundary layer to sound and wall vibration
[AD-A132843] 05 p0681 N84-14474
When is an internal rotation a vibration?
[AD-A132974] 05 p0744 N84-14890
Engineering evaluations and studies. Volume 3: Exhibit C
[NASA-CR-171727] 06 p0794 N84-15177
A NASTRAN DMAP procedure for calculation of base excitation modal participation factors
06 p0859 N84-15599
Tube vibration in industrial-size test heat exchanger (90 deg square layout)
[DE83-011931] 06 p0862 N84-15614
Linear and nonlinear aspects of rotordynamics
06 p0929 N84-16034
Effect of blade structural parameters on helicopter vibrational characteristics
[AD-A134547] 07 p0951 N84-16174
Dynamic behavior of spiral-groove and Rayleigh-Step self-acting face seals
[NASA-TP-2266] 07 p0953 N84-16181
Study of vibration resonance frequencies in rats
07 p1048 N84-16784
Vibrating-chamber levitation systems
[NASA-CASE-NPO-16142-1] 07 p1070 N84-16948
Propagation of sound through a gas with an over-population of excited vibrational states
[AD-A134181] 07 p1070 N84-16950
Influence of vibration grinding on the properties of tungsten powders and the quality of sintered pieces
[BLL-M-35373] 08 p1140 N84-17414
Rubidium frequency standard study
[AD-A134713] 08 p1151 N84-17492
Flexible conformable clamps for a machining cell with applications to turbine blade machining
[AD-A134942] 08 p1167 N84-17596
Frequency and mode shape calculations for vertical axis wind turbines using reduction techniques and complex eigensolvers
[DE84-003316] 08 p1172 N84-17633
An objective waveform comparison technique
[AD-A136130] 09 p1315 N84-18596
New method of analyzing vibration of cracked cylindrical shells
[AD-A136637] 09 p1331 N84-18693
Vibrations of doubly-rotated-cut quartz plates with monoclinic symmetry
[AD-A135948] 09 p1377 N84-18996
Advanced cleaning by mass finishing
[DE84-004850] 10 p1472 N84-19612
Nonlinear vibrations of plates: A review
10 p1505 N84-19842
Mechanical signature analysis
10 p1505 N84-19843
Static and dynamic behavior of mechanical components associated with electrical transmission lines
10 p1505 N84-19844
The Shock and Vibration Digest, volume 15, no. 7
[AD-A132576] 10 p1505 N84-19845
The Shock and Vibration Digest, volume 15, no. 11
[AD-A137065] 10 p1507 N84-19858
A technical note on evaluation of dampers
10 p1507 N84-19859
Dynamic behavior of underground structures
10 p1507 N84-19860
Stable response of damped linear systems
10 p1507 N84-19861
The Shock and Vibration Digest, volume 16, no. 1
[AD-A137502] 10 p1507 N84-19862
The Shock and Vibration Bulletin. Part 2: Fluid-structure dynamics and dynamic analysis
[AD-A134453] 10 p1510 N84-19881
Experimental validation of the component synthesis method for predicting vibration of liquid-filled piping
10 p1510 N84-19882
The Shock and Vibration Bulletin. Part 3: Vehicle dynamics and vibration: Test and criteria
[AD-A134454] 10 p1511 N84-19893
An optimum seat-suspension for off-road vehicles
10 p1512 N84-19896
The Shock and Vibration Bulletin. Part 4: Damping and machinery dynamics
[AD-A134455] 10 p1514 N84-19908
A variational method for calculating the natural frequencies and mode shapes of a cantilevered open cylindrical shell
[AD-A136901] 10 p1517 N84-19932
Pre-transition phenomena in an iron-nickel alloy prior to the Martensite transformation
11 p1632 N84-20668
Calibration of vibration pickups at high frequencies
[AD-P002691] 11 p1659 N84-20826
Shock isolated accelerometer
[AD-P002692] 11 p1660 N84-20827
Aircraft ground vibration test instrumentation system
[AD-P002694] 11 p1660 N84-20829
Standard environmental test methods
[DE84-006471] 11 p1666 N84-20868
Frequency domain approach to structural analysis
[DE84-005110] 11 p1669 N84-20889
Effect of concentrated energy streams on materials: Problems and prospects 12 p1784 N84-21638
Millimeter wave metal-insulator-metal detector/mixer diode
[AD-A136391] 12 p1812 N84-21815
The Shock and Vibration Digest, volume 16, no. 2
[AD-A139098] 12 p1821 N84-21874
Current research at the U.S. Naval Biodynamics Laboratory on human whole-body motion and vibration
[AD-A138367] 12 p1865 N84-22155
Bellows flow-induced vibrations
[NASA-TM-82556] 13 p1989 N84-22912
Wave attenuation in periodic structures
[AD-A138924] 13 p2001 N84-22984
Effects of transverse loading on the thickness shear resonance frequencies in crystal plates
13 p2003 N84-22994
A study of helicopter gust response alleviation by automatic control
[NASA-TM-85870] 14 p2111 N84-23655
Lewis Research Center spin rig and its use in vibration analysis of rotating systems
[NASA-TP-2304] 15 p2260 N84-24578
Nonlinear vibrations of a rubber support system constrained by a fixed surface 15 p2313 N84-24878
Field demonstration of three-phase wanlass motors
[AD-A140065] 15 p2330 N84-24989
Free vibration analysis of uniform and nonuniform cantilever beams by including the effects of transverse shear deformation and rotary inertia
15 p2402 N84-25417
La Recherche Aerospatiale, Bimonthly Bulletin, number 1983-S, 216/September - October
[ESA-TT-836] 15 p2402 N84-25419
Mode-to-mode vibrational energy transfer in (1)B2 aniline induced by collisions with CO/sub 2
[DE84-007197] 15 p2406 N84-25440
Analysis of carbon dioxide bands near 2.2 micrometers
[NASA-CR-173605] 16 p2462 N84-25779
Deflection and vibration in shear-deformable beams and laminated composites made of bimodular and multimodular materials 16 p2503 N84-26066
Vibrational and rotational excitation of CO in comets. Part 1: Non-equilibrium calculations. Part 2: Results of the calculation for standard bright comet, comet Iras-Araki-Alcock and comet Halley
[NASA-TM-86122] 16 p2579 N84-26545
Space structure vibration modes: How many exist? Which ones are important?
[NASA-CR-173442] 17 p2615 N84-26738
Vibrations of and radiation from shell of revolution under hoop load 17 p2649 N84-26940
Subharmonic vibrations of rotor mounted in rolling bearings 17 p2649 N84-26943
Analysis of lateral and torsional vibration characteristics of beams and shafts with end located rotational masses
[NASA-TM-84593] 17 p2679 N84-27065
Tension waves in tethered satellite cables
[NASA-TM-85799] 18 p2807 N84-27820
VIBRA: An interactive computer program for steady-state vibration response analysis of linear damped structures
[NASA-TM-85789] 18 p2852 N84-28112
Response of the cardiovascular system to vibration and combined stresses
[AD-A142166] 19 p3066 N84-29450
Activities report of the Institute of Sound and Vibration Research 19 p3100 N84-29693
High resolution measurements of impurity-induced localized vibrational modes in semiconductors
[AD-A141577] 19 p3110 N84-29762
Inversion of spectral lineshapes to yield collisional rate constants
[AD-A142661] 20 p3149 N84-29994
Flow Induced Vibration Program at Argonne National Laboratory
[DE84-009233] 20 p3187 N84-30249

Support structures for large infrared telescopes
[NASA-CR-3800] 20 p3200 N84-30328
Improved methods of vibration analysis of pretwisted, airfoil blades
[NASA-TM-83735] 20 p3200 N84-30329
Vibrational studies of the structure of disordered solids
[AD-A142297] 20 p3202 N84-30338
Nature of polarized vibronic sidebands of biexciton absorption in Alpha-oxygen 20 p3289 N84-30884
Evaluation of a vibration technique for detection of barely-visible impact-damage in composites
[AD-A142807] 21 p3357 N84-31293
Radial SI latches vibration test data review
[NASA-TM-86454] 21 p3412 N84-31638
Testing and evaluation of Vespel up to 450 deg F when used in nuts and bolts as a self-locking element
[NASA-TM-86456] 21 p3412 N84-31639
The Shock and Vibration Digest, volume 16, no. 4
[AD-A141077] 21 p3418 N84-31676
The Shock and Vibration Digest, volume 16, no. 7
[AD-A143958] 21 p3418 N84-31679
Vibrations and stability of mechanical systems, 3
21 p3419 N84-31681
Longitudinal vibrations of rods of finite length with radial deformation
[AD-A142674] 21 p3421 N84-31703
Combined experimental/analytical modeling using component mode synthesis
[DE84-013147] 21 p3423 N84-31715
Passive line-of-sight stabilization for an infrared sensor
[AD-A143305] 22 p3599 N84-32792
Refinement and evaluation of helicopter real-time self-adaptive active vibration controller algorithms
[NASA-CR-3821] 23 p3689 N84-33378
ACOSS twelve (active control of space structures)
[AD-A143829] 23 p3701 N84-33458
Alkali-SCl2 chemiluminescence: Vibrational population inversion in the B state of S2
[AD-A143639] 23 p3754 N84-33794
A formulation of rotor-airframe coupling for design analysis of vibrations of helicopter airframes
[NASA-RP-1089] 23 p3760 N84-33832
Flexural support member having a high ratio of lateral-to-axial stiffness
[DE84-011104] 23 p3761 N84-33839
Combined effect of noise and vibration on passenger acceptance
[NASA-TM-86264] 23 p3810 N84-34161
Comparison of frequency-domain and time-domain rotorcraft vibration control methods
[NASA-CR-166570] 24 p3852 N84-34431
Dynamic analysis of evolutive conservative systems. Discussion of eigenmode crossings
[NASA-TM-77052] 24 p3860 N84-34462
Apparatus for disintegrating kidney stones
[NASA-CASE-GSC-12652-1] 24 p3936 N84-34913
Vibrations and stability of thick plates
24 p3958 N84-35059

VIBRATION DAMPERS

U VIBRATION ISOLATORS

VIBRATION DAMPING

Digital instrumentation package or an improved torsion pendulum
[PB83-240424] 04 p0539 N84-13547
Stability, vibration and passive damping of partially restrained imperfect columns
[NASA-TM-85697] 04 p0548 N84-13608
Experimental study of active vibration control
[AD-A133618] 05 p0692 N84-14546
A successive transformation method for the dynamic analysis of damped systems 05 p0694 N84-14559
Study on damping representation related to spacecraft structural design
[EMSB-18/83] 06 p0795 N84-15182
Experimental determination of gap flow-conditioned forces at turbine stages and their effect on the running stability of simple rotors
[NASA-TM-77293] 06 p0852 N84-15553
Digital control system for space structural dampers
[NASA-CR-175355] 07 p0964 N84-16246
Design study of magnetic eddy-current vibration suppression dampers for application to cryogenic turbomachinery
[NASA-CR-173273] 07 p1012 N84-16562
Effect of structural flexibility on the design of vibration-isolating mounts for aircraft engines
[NASA-TM-85725] 07 p1016 N84-16590
The effects of the space environment on damping materials and damping designs on flexible structures
08 p1110 N84-17217
Vibration isolation technology experiment
08 p1111 N84-17228
Investigation of articulated panel dynamics
08 p1112 N84-17230
Squeeze-film damping of rotor-dynamic systems
08 p1168 N84-17610
Control theory of hyperbolic systems
[AD-A135148] 08 p1218 N84-17952
ACOSS eleven (Active Control Of Space Structures), volume 1
[AD-A135675] 09 p1273 N84-18311
The usefulness of impact dampers for space applications
[AD-A135685] 09 p1332 N84-18697
Maintenance and operational enhancement of the flexible spacecraft dynamics program
[NASA-CR-175211] 10 p1439 N84-19394
The effect of mass and stiffness changes on the damping factor in a large space structure as represented by the CSDL 2 model
[AD-A136984] 10 p1449 N84-19465
Shock and seismic response spectra in design problems 10 p1506 N84-19856
An optimum seat-suspension for off-road vehicles
10 p1512 N84-19896
Criteria for accelerated random vibration tests with non-linear damping 10 p1513 N84-19902
Experimental investigation of controlling vibrations using multi-unit impact dampers 10 p1514 N84-19909
A vibration damping treatment for high temperature gas turbine applications 10 p1514 N84-19912
Experimental measurement of material damping using digital test equipment 10 p1514 N84-19913
Electronic damping of a large optical bench
10 p1514 N84-19914
Measurement of structural damping using the random decrement technique 10 p1514 N84-19915
Eigenspace design techniques for active flutter suppression 11 p1617 N84-20581
Analysis of large space structures
11 p1623 N84-20621
Vibration Control Of Space Structures VCOSS B: Momentum exchange and truss dampening
[AD-A139910] 15 p2281 N84-24701
Vibration Control Of Space Structures VCOSS A: High and low-authority hardware implementations
[AD-A139931] 15 p2281 N84-24702
Dual clearance squeeze film damper for high load conditions
[NASA-TM-83619] 15 p2343 N84-25064
Experimental modal analysis
[SNIAS-832-210-110] 16 p2440 N84-25655
The SARIB vibration absorber
[SNIAS-832-210-104] 16 p2502 N84-26058
Friction damping of flutter in gas turbine engines
17 p2609 N84-26701
Procedure for determination of damping capability of turbomachine blades subjected to heat and centrifugal forces 17 p2642 N84-26905
Tension waves in tethered satellite cables
[NASA-TM-85799] 18 p2807 N84-27820
Regions of attraction and ultimate boundedness for linear quadratic regulators with nonlinearities
[NASA-TP-2322] 18 p2923 N84-28538
Active suppression of aeroelastic instabilities for forward swept wings
[AD-A141739] 19 p2964 N84-28783
Analysis of SSME HPOTP rotordynamics subsynchronous whirl
[NASA-CR-171094] 19 p2983 N84-28900
Design of a candidate flutter suppression control law for DAST ARW-2
[NASA-TM-86257] 20 p3131 N84-29883
Simulation of vibratory processes in damped structures with temperature-frequency characteristics of vibration absorbing materials taken into account
21 p3478 N84-32046
Preliminary design study of a higher harmonic blade feathering control system
[NASA-CR-159327] 23 p3695 N84-33418
Effect of boundary conditions on the damping characteristics of a randomly excited cast nickel-aluminum bronze specimen at low stress levels
[AD-A143685] 23 p3761 N84-33837
Active suppression of aeroelastic instabilities on a forward swept wing using a linear optimal regulator
[AD-A144561] 24 p3854 N84-34442

VIBRATION EFFECTS

Vibration control of large linear quadratic symmetric systems
[NASA-CR-174536] 01 p0093 N84-10608
Optical methods of measuring loudspeaker diaphragm movement
[BBC-RD-1983/13] 04 p0517 N84-13396
The dynamic in plane response at the centre of a rotating elastic disc due to oscillatory in plane forces at the rim
[ISVR-TR-121] 04 p0548 N84-13613
A successive transformation method for the dynamic analysis of damped systems 05 p0694 N84-14559
Vibration-induced flux variation in the space between two concentric tubes
[BLL-CE-TRANS-7949-(9022.09)]
06 p0857 N84-15583
The parabolic approximation for sound propagation in stratified moving media 06 p0907 N84-15893
Dynamics of tubes in fluid with tube-baffle interaction — heat exchanger tubes
[DE84-001452] 07 p1003 N84-16508
The Shock and Vibration Digest, volume 15, no. 9
[AD-A134750] 08 p1168 N84-17609
Importance of gravity for plant growth and behavior
09 p1356 N84-18864
The Shock and Vibration Digest, volume 15, no. 5
[AD-A131729] 10 p1505 N84-19838
Turbomachine blade vibration
10 p1505 N84-19839
The Shock and Vibration Digest, volume 15, no. 8
[AD-A133708] 10 p1506 N84-19849
Stability problems of rotor systems
10 p1506 N84-19851
The Shock and Vibration Digest, volume 15, no. 12
[AD-A138158] 10 p1506 N84-19852
Vehicle-structure interactions in bridge dynamics
10 p1506 N84-19853
Vibration of overhead transmissions lines 4
10 p1506 N84-19854
The Shock and Vibration Bulletin. Part 1: Welcome, keynote address, invited papers, pyrotechnic shock, and shock testing and analysis
[AD-A134452] 10 p1507 N84-19866
AVRADCOM research helicopter vibration
10 p1507 N84-19867
Vibration challenges in microelectronics manufacturing
10 p1508 N84-19870
Effect of measurement system phase response on shock spectrum computation 10 p1509 N84-19877
A stochastic model for the Man-Machine-Soil-Environment System (MMSES) and the influence of vibrations 10 p1512 N84-19895
Criteria for accelerated random vibration tests with non-linear damping 10 p1513 N84-19902
Vibration test environments for electronics mounted in a remotely piloted vehicle 10 p1513 N84-19903
Vibration test software for electronics mounted in a remotely piloted vehicle 10 p1513 N84-19904
Experimental study of uncentralized squeeze film dampers
[NASA-CR-168317] 10 p1516 N84-19927
Vibration exposures concerning the drivers of trucks and vehicles operated by Rodotigre
10 p1552 N84-20173
Free vibration analysis with beam models which include bending warping, torsion warping and anticlastic bending effects 11 p1667 N84-20874
Advanced turbocharger design study program
[NASA-CR-174633] 12 p1822 N84-21879
Rocket motor aeroacoustics 13 p1944 N84-22642
Generation of vehicle wobbling by the unsteady flow field in a spinning solid propellant rocket motor
13 p1945 N84-22648
The Shock and Vibration Digest, volume 16, no. 3
[AD-A139707] 13 p2000 N84-22976
Experiences with a PDS 2020 GM
18 p2840 N84-28028
Recommendations for on-site vibration standards
[DE84-011756] 20 p3181 N84-30207
An analysis of the high frequency vibrations in early Thematic Mapper scenes 20 p3210 N84-30395
Transition from laminar to turbulent flow under action of acoustic vibrations 21 p3480 N84-32056

VIBRATION ISOLATORS

Evaluation of type 2 fast packs for electrostatic discharge properties
[AD-A133158] 06 p0853 N84-15557
Vibration isolation technology experiment
08 p1111 N84-17228
The Shock and Vibration Digest, volume 15, no. 9
[AD-A134750] 08 p1168 N84-17609
Squeeze-film damping of rotor-dynamic systems
08 p1168 N84-17610
An optimum seat-suspension for off-road vehicles
10 p1512 N84-19896
Damped pneumatic spring as shock isolator: Generalized analysis and design procedure
10 p1515 N84-19916
Methodical layout of mechanical systems with regard to optimum vibrational behavior
[REPT-36] 12 p1825 N84-21898
Dual clearance squeeze film damper
[NASA-CASE-LEW-13506-1] 13 p1932 N84-22562
The SARIB vibration absorber
[SNIAS-832-210-104] 16 p2502 N84-26058
Preliminary evaluation of waveguide vibration absorbers
[AD-A140743] 17 p2680 N84-27070

Preliminary experimental and theoretical results on cantilever vibration absorbers applied for aircraft cabin vibration
[SPER-8390] 18 p2794 N84-27730
Recommendations for on-site vibration standards
[DE84-011756] 20 p3181 N84-30207
Digital control system for space structural dampers
[NASA-CR-173867] 21 p3353 N84-31267

VIBRATION MEASUREMENT
Forced vibration analysis of rotating cyclic structures in NASTRAN
[NASA-CR-165429] 02 p0231 N84-11514
Experimental measurement of material damping using digital test equipment 10 p1514 N84-19913
Measurement of structural damping using the random decrement technique 10 p1514 N84-19915
Source signature recovery in reverberant structures 10 p1515 N84-19922
Comparison of statistical energy analysis and finite element analysis vibration prediction with experimental results 10 p1516 N84-19923
An angular velocimeter for aerospace applications
[AD-P002682] 11 p1658 N84-20819
Technique for modal data acquisition in remote locations using hand portable instrumentation
[DE84-005755] 12 p1819 N84-21854
Development of baseline random vibration environment criteria for Shuttle pallet payload subsystems
[NASA-TM-86087] 14 p2113 N84-23666
Problems of system identification in flight vibration testing
[AGARD-R-720] 16 p2451 N84-25718
An investigation into the probabilistic combination of quasi-static and random accelerations
[NASA-TM-82584] 18 p2852 N84-28111
Random vibrations of multicomponent structures 22 p3607 N84-32854

VIBRATION METERS
NT SEISMOGRAPHS
Ride quality meter
[NASA-CASE-LAR-12882-1] 03 p0375 N84-12445

VIBRATION MODE
Blade loss transient dynamics analysis with flexible bladed disk
[NASA-CR-168176] 04 p0486 N84-13193
The experimental/analytical determination of the real normal mode parameters of a structure with limited accessibility
[DFVLR-FB-83-26] 09 p1334 N84-18711
Evaluation of modal testing techniques for spacecraft structures 10 p1513 N84-19906
A free-form modal survey suspension system for large test articles 10 p1513 N84-19907
Nonlinear optics with broad-band lasers
[DE84-005769] 12 p1908 N84-22432
On some dynamic problems in layered elastic-viscoelastic beams 15 p2309 N84-24856
Experimental modal analysis
[SNIAS-832-210-110] 16 p2440 N84-25655
Problems of system identification in flight vibration testing
[AGARD-R-720] 16 p2451 N84-25718
Developments in structural vibration testing methods 16 p2476 N84-25874
Space structure vibration modes: How many exist? Which ones are important?
[NASA-CR-173442] 17 p2615 N84-26738
High resolution measurements of impurity-induced localized vibrational modes in semiconductors
[AD-A141577] 19 p3110 N84-29762
Direct generation of seismic floor response spectra for classically and nonclassically damped structures
[PB84-191675] 21 p3445 N84-31860

VIBRATION PROTECTION
U VIBRATION ISOLATORS

VIBRATION SIMULATORS
The hydraulic multiaxes vibrator: Its capabilities to simulate real mechanical environments and to verify aerospace structures 03 p0339 N84-12198
Practical experience during installation of the large multiaxes vibration test facility SAMSON 03 p0339 N84-12199
The development of a multi-axis hydraulic vibration test facility at the National Engineering Laboratory, Scotland 03 p0339 N84-12200
Hydraulic actuators and associated components suited for multiaxis vibration systems — spacecraft testing 03 p0339 N84-12201
Concept of a safety system for a servohydraulic test facility 03 p0339 N84-12202
Control of multiaxis vibration systems 03 p0339 N84-12203
Mathematical modeling and simulation of multiaxis hydraulic test facilities 03 p0339 N84-12204
Simulation of mechanical cross coupling of multiaxes vibration facilities 03 p0340 N84-12207
Design considerations of platens for vibration testing
[AD-A135815] 09 p1332 N84-18699
Millimeter and submillimeter wave research: Spectroscopy, energy transfer and techniques
[AD-A137884] 11 p1663 N84-20853
Certification vibration tests, SD602 materials experiment
[AD-A138547] 13 p2001 N84-22982
Lewis Research Center spin rig and its use in vibration analysis of rotating systems
[NASA-TP-2304] 15 p2260 N84-24578
Experimental modal analysis
[SNIAS-832-210-110] 16 p2440 N84-25655
Multi-shaker random mode testing
[AD-A142094] 19 p3089 N84-29808

VIBRATION TESTING MACHINES
U VIBRATION SIMULATORS

VIBRATION TESTS
NT DAMPING TESTS
Impact and vibration testing of a modified UH-1 crew seat
[AD-A130279] 01 p0117 N84-10760
Spacecraft Vibration Testing Using Multi-Axis Hydraulic Vibration Systems — conferences
[ESA-SP-197] 03 p0339 N84-12197
Practical experience during installation of the large multiaxes vibration test facility SAMSON 03 p0339 N84-12199
The development of a multi-axis hydraulic vibration test facility at the National Engineering Laboratory, Scotland 03 p0339 N84-12200
Torsional vibration measurements on fiber reinforced composites
[MBB-BB-524-82-OE] 05 p0645 N84-14240
Design considerations of platens for vibration testing
[AD-A135815] 09 p1332 N84-18699
The Shock and Vibration Digest, volume 15, no. 8
[AD-A133708] 10 p1506 N84-19849
Equivalence techniques for vibration testing 10 p1506 N84-19850
The Shock and Vibration Bulletin. Part 3: Vehicle dynamics and vibration: Test and criteria
[AD-A134454] 10 p1511 N84-19893
Criteria for accelerated random vibration tests with non-linear damping 10 p1513 N84-19902
Vibration test environments for electronics mounted in a remotely piloted vehicle 10 p1513 N84-19903
Vibration test software for electronics mounted in a remotely piloted vehicle 10 p1513 N84-19904
Evaluation of modal testing techniques for spacecraft structures 10 p1513 N84-19906
A free-form modal survey suspension system for large test articles 10 p1513 N84-19907
NASA flight electronics environmental stress screening survey
[NASA-CR-173472] 12 p1841 N84-22002
Environmental qualification tests, signal conditioning unit, SD602 materials experiment
[AD-A138910] 13 p1987 N84-22897
Certification vibration tests, SD602 materials experiment
[AD-A138547] 13 p2001 N84-22982
The design and development of two-failure tolerant mechanisms for the Spaceborne Imaging Radar (SIR-B) antenna 15 p2348 N84-25087
Problems of system identification in flight vibration testing
[AGARD-R-720] 16 p2451 N84-25718
La Recherche Aerospatiale, Bimonthly Bulletin, no. 1983-6, 217/November-December
[ESA-TT-841] 16 p2476 N84-25870
Developments in structural vibration testing methods 16 p2476 N84-25874
Ground vibration test of F-16 airplane with initial decoupler pylon
[NASA-TM-86259] 24 p3854 N84-34439

VIBRATIONAL FREQUENCIES
U VIBRATIONAL SPECTRA

VIBRATIONAL RELAXATION
U MOLECULAR RELAXATION

VIBRATIONAL SPECTRA
Vibrational spectra of single and mixed alkali pentasilicate glasses
[AD-A130527] 01 p0049 N84-10318
Vibrational spectroscopy of chemisorbed molecules by infrared emission
[DE84-000956] 04 p0602 N84-13973
Electrochemically Modulated Infrared Spectroscopy (EMIRS). Experimental details
[AD-A137040] 10 p1455 N84-19503
Millimeter and submillimeter wave research: Spectroscopy, energy transfer and techniques
[AD-A137884] 11 p1663 N84-20853
Theoretical study of the radiative and kinetic properties of selected metal oxides and air molecules
[AD-A141230] 18 p2811 N84-27847
The transfer of atoms, ions and molecular groups in solution. Part 2: Tunnelling between harmonic wells
[AD-A142334] 20 p3147 N84-29982
Surface-Enhanced Raman Scattering for redox-active adsorbates: Pentaammineosmium (3)/(2) and Pentaammineruthenium (2) containing nitrogen heterocycle ligands
[AD-A142418] 20 p3148 N84-29987
Raman and infrared spectroscopy of molecules adsorbed on metal electrodes
[AD-A143466] 22 p3547 N84-32454

VIBRATIONAL STRESS
Dissociative ionization of liquid water induced by vibrational overtone excitation
[DE83-017739] 04 p0495 N84-13251
Turbulence generated pressure fluctuations in a class of interior flows 10 p1423 N84-19308
Torsional vibration of crankshafts in reciprocating machines 12 p1822 N84-21876
Experimental measurement of material damping for space structures in simulated zero-g
[AD-A139215] 14 p2120 N84-23703
The conjoint action of high and low cycle fatigue
[AD-A139205] 14 p2158 N84-23927
Experimental study of behavior of cylindrical shells with lumped masses under dynamic external pressure 17 p2650 N84-26947
Random vibrations of multicomponent structures 22 p3607 N84-32854

VIBRATORY LOADS
Forced vibration of Timoshenko beams of multimodular materials
[AD-A130372] 01 p0095 N84-10617
Probabilistic fatigue life predictions of structural components in high-cycle fatigue regimes
[AD-A132425] 04 p0549 N84-13615
Investigation of the effect of blade sweep on rotor vibratory loads
[NASA-CR-166526] 09 p1256 N84-18196
Macroscopic appearance of vibratory fractures — metal fatigue 14 p2126 N84-23741
Microscopic appearance of vibratory fractures — metal fatigue 14 p2126 N84-23742
Experimental study of behavior of cylindrical shells with lumped masses under dynamic external pressure 17 p2650 N84-26947
An investigation into the probabilistic combination of quasi-static and random accelerations
[NASA-TM-82584] 18 p2852 N84-28111

VIBROCARDIOGRAPHY
U PHONOCARDIOGRAPHY

VIBROMETERS
U VIBRATION METERS

VIDEO COMMUNICATION
A comparison of the domestic satellite communications forecast to the year 2000
[NASA-TM-83516] 01 p0062 N84-10405
Coding of full motion color video signals at 50 kb/s
[AD-A134319] 08 p1146 N84-17456
Evaluation of a five node videoconference system and shared graphics workspace - U.S. Department of Defense, Washington, D.C.
[AD-A136483] 09 p1299 N84-18491

VIDEO DATA
Development of new integrated concepts for digital color video processing
[BMFT-FB-T-83-079] 02 p0210 N84-11375
Study of potential standardization of video teleconferencing systems. Volume 2: Appendices
[AD-A132081] 04 p0522 N84-13431
Study of potential standardization of video teleconferencing systems, volume 1
[AD-A132080] 04 p0522 N84-13432
The development and application of an advanced computer-based shared-graphic workstation for video teleconferencing
[AD-A132583] 04 p0579 N84-13817
Optical fibre links for digital YUV signals
[BBC-RD-1983/14] 05 p0665 N84-14372
Low rate transmission of video signals using adaptive delta modulation
[AD-A133145] 06 p0823 N84-15363
Analysis of tutored videotape instructional delivery system
[AD-A133441] 07 p1050 N84-16800
Mapping applications of video disc technology
[AD-A135842] 09 p1300 N84-18498
Issues in satellite packet video communication
[AD-A135042] 09 p1303 N84-18515
A dual digital to video converter for avionics symbology and messages
[AD-A138383] 12 p1771 N84-21547
A high speed processor for binary images
[AD-A138908] 13 p2025 N84-23125

Digital capability for cockpit television sensor instrumentation systems
[AD-A139432] 14 p2106 N84-23628
Video games: A human factors guide to visual display design and instructional system design
[AD-P003368] 18 p2914 N84-28480
Ergonomic analysis of human operation of video terminal 21 p3454 N84-31918
Image generator architectures and features
[AD-P003449] 21 p3508 N84-32226
On-line task analyses in maintenance simulation
[AD-P003452] 21 p3509 N84-32229
Method of measuring optical properties of a transparency
[AD-D011117] 22 p3658 N84-33188
A dual digital to video converter and color video inserter for avionics symbology and messages
[AD-A143772] 23 p3693 N84-33408
Satellite communication of real-time packet video images
[AD-A143613] 23 p3730 N84-33643
Software support for a video disc based terrain map display system
[AD-A143700] 23 p3834 N84-34324
Automatic gain control circuit for video signals of scenes of varying illumination levels
[AD-A144198] 24 p3894 N84-34658
An automated technique for determining cloud velocity from GMS data. 1: The design and construction of a scanning converter 24 p3956 N84-35049

VIDEO DISKS
Instructional systems development model for interactive videodisc
[AD-A136737] 10 p1498 N84-19790
Interactive videodisc design and production, workshop guide
[AD-A136830] 10 p1498 N84-19791
Videodisc premastering facility: Technical evaluation
[PB84-135821] 11 p1661 N84-20840
Bibliography of the literature on optical storage technology
[PB84-150184] 14 p2204 N84-24227
Psychological research on advanced terrain representation: Formatting the visual material
[AD-A139782] 15 p2382 N84-25288
An experimental video disc for map and image display
[AD-A140215] 16 p2510 N84-26110

VIDEO EQUIPMENT
Optical surveillance for international safeguards: Present and future
[DE83-014278] 02 p0223 N84-11465
High-speed videography combined with an x-ray image intensifier for dynamic radiography
[DE83-017233] 03 p0442 N84-12905
A video bus for weapon system integration
06 p0771 N84-15051
Coding of color video signals for digital magnetic tape recording at low bit rates
[BMFT-FB-T-83-185] 07 p0995 N84-16450
Development of an autonomous video rendezvous and docking system, phase 3
[NASA-CR-170969] 08 p1115 N84-17249
Terminal work in the process industry: Experience in a time perspective. Part 2: A few years after the installation — computer terminal operators
[FOA-C-56039-H2-PT-2] 08 p1141 N84-17422
Communications 09 p1269 N84-18285
A sine-wave grating controller for vision testing
[AD-A135871] 09 p1318 N84-18610
A range of combined error corection and recording channel code schemes
[BBC-RD-1983/16] 11 p1642 N84-20732
Videodisc premastering facility: Technical evaluation
[PB84-135821] 11 p1661 N84-20840
Preliminary experience with a stereoscopic video system in a remotely piloted aircraft application
[NASA-TM-84909] 13 p1931 N84-22557
Cold regions instrumentation considerations
[AD-A139605] 15 p2336 N84-25024
Characteristic faults of input stabilizing and correcting equipment in television transmitting stations
17 p2632 N84-26837
In-situ measurements of alloy oxidation/corrosion/erosion using a video camera and proximity sensor with microcomputer control
[NASA-TM-83673] 18 p2813 N84-27859
Study of potential standardization of digital freeze frame video codecs
[AD-A141278] 18 p2829 N84-27962
VLSI systems of digital signal processing for consumer applications
[BMFT-FB-T-84-060] 19 p3019 N84-29143
A system for automatic digitization of cartographic line drawings 20 p3227 N84-30506
Comparison of CRT (Cathode Ray Tube) antireflection filters
[PB84-202753] 22 p3590 N84-32742
Telemetry/Telecommand (TM/TC) processor study
[MATRA-144-TM-TC-03-002] 23 p3699 N84-33448
Evaluation of optical data collection instrumentation in the desert environment
[AD-P003847] 24 p3939 N84-34934
An automated technique for determining cloud velocity from GMS data. 1: The design and construction of a scanning converter 24 p3956 N84-35049

VIDEO SIGNALS
Programmable scan/read circuitry for charge coupled device imaging detectors — spacecraft attitude control and star trackers
[NASA-CASE-NPO-15345-1] 13 p2042 N84-23247
Filtering of the colour-difference signals in 4:2:2 YUV digital video coding systems
[BBC-RD-1984/4] 20 p3172 N84-30141
Automatic gain control circuit for video signals of scenes of varying illumination levels
[AD-A144198] 24 p3894 N84-34658

VIDICONS
NT THERMICONS
Nanosecond image-shuttering studies at Los Alamos National Laboratory
[DE84-001733] 06 p0830 N84-15405
Studies and tests of pyroelectric vidicons
[FOA-C-30317-E1] 10 p1489 N84-19738
Visible pyrotechnic flare spectroscopy using vidicons
[AD-A140283] 16 p2474 N84-25857

VIEW EFFECTS
Computer implementation, accuracy, and timing of radiation view-factor algorithms
[DE83-017618] 04 p0583 N84-13849
Demonstration of angular anisotropy in the output of Thematic Mapper
[E84-10095] 10 p1522 N84-19965
Study on synthesis and characterization of large space systems, phase 2. Part 2: Proposals for additions, modifications and new analytical methods, volume 2
[ESA-CR(P)-1779-VOL-4] 12 p1780 N84-21616

VIEWING
NT FIELD OF VIEW
Real-time 3-D X-ray and gamma-ray viewer
[NASA-CASE-GSC-12640-1] 02 p0293 N84-11920

VIKING LANDER SPACECRAFT
On Mars: Exploration of the red planet, 1958 - 1978
[NASA-SP-4212] 24 p3990 N84-35248
Viking lander: Creating the science teams
24 p3991 N84-35255
Viking lander: Building a complex spacecraft
24 p3991 N84-35256
Safe havens: Selecting landing sites for Viking
24 p3991 N84-35257
Site certification and landing 24 p3991 N84-35258
On Mars 24 p3991 N84-35259

VIKING MARS PROGRAM
Post-mission Viking data anaysis
[NASA-CR-173451] 12 p1776 N84-21587
Viking: The exploration of Mars
[NASA-EP-208] 18 p2953 N84-28715
Phobos: Close encounter imaging from the Viking Orbiters
[NASA-RP-1109] 21 p3525 N84-32330

VIKING ORBITER SPACECRAFT
NT VIKING ORBITER 1
Post-mission Viking data anaysis
[NASA-CR-173451] 12 p1776 N84-21587
On Mars: Exploration of the red planet, 1958 - 1978
[NASA-SP-4212] 24 p3990 N84-35248
Viking orbiter and its Mariner inheritance
24 p3991 N84-35254

VIKING ORBITER 1
Site certification and landing 24 p3991 N84-35258

VIKING SPACECRAFT
NT VIKING LANDER SPACECRAFT
NT VIKING ORBITER SPACECRAFT
NT VIKING ORBITER 1
Distribution and properties of small volcanoes in Acidalia Planitia 13 p2080 N84-23478
Reorganization and creation of Viking
24 p3991 N84-35253

VIKING 1 SPACECRAFT
NT VIKING LANDER SPACECRAFT
NT VIKING ORBITER SPACECRAFT
NT VIKING ORBITER 1

VIKING 2 SPACECRAFT
NT VIKING LANDER SPACECRAFT
NT VIKING ORBITER SPACECRAFT

VINEYARDS
Use of remote sensing for land use policy formulation
[E84-10117] 14 p2167 N84-23977

VINYL COPOLYMERS
Vinyl styrylpyridines and their copolymerization with bismaleimide resins
[NASA-CASE-ARC-11429-1-CU]
07 p0979 N84-16341
Hysteresis in copolymers of vinylidene fluoride and trifluoroethylene
[AD-A137446] 10 p1466 N84-19577

VINYL CYANIDE
U ACRYLONITRILES

VINYL ETHYLENE
U BUTADIENE

VINYL POLYMERS
NT POLYVINYL FLUORIDE
Temperature dependent hysteresis study in polyvinylidene fluoride
[AD-A132675] 05 p0659 N84-14331
Rigorous bounds for the calculated dielectric constants of ferroelectric polymers
[AD-A132741] 05 p0659 N84-14332
Pre-existing polarization and influence of electrode materials on PVF2 electrets as determined by thermal pulse and pyroelectric methods
[AD-A132896] 05 p0659 N84-14335
Ultrahigh molecular weight aromatic siloxane polymers
06 p0930 N84-16042
Use of radiation curing for the production of coated fabrics, profiles, flocking — vulcanizing
[BMFT-FB-T-83-176] 07 p0980 N84-16350
The effect of plasticizer on the polarizer of Poly(vinylidene fluoride) films
[AD-A140770] 17 p2626 N84-26806
Synthesis and evaluation of improved electron-beam and X-ray lithographic resist polymers
[AD-A141674] 19 p2999 N84-29006
Ion conduction poly(vinyl acetate)
[AD-A142249] 19 p3096 N84-29660
Statistical-mechanical study of polyvinylidene fluoride
[AD-A143040] 21 p3370 N84-31383
NMP, electrical relaxation, and high pressure electrical conductivity in ion conducting polymers
[AD-A143202] 22 p3546 N84-32451
Electrically conducting poly(vinyl acetate)
[AD-A143199] 22 p3559 N84-32538

VINYLIDENE
The effect of plasticizer on the polarizer of Poly(vinylidene fluoride) films
[AD-A140770] 17 p2626 N84-26806

VIRGINIA
Range reference atmosphere 0-70Km altitude, Wallops Island, Virginia
[AD-A131327] 02 p0254 N84-11661
Water resources data for Virginia, water year 1982
[PB84-118553] 09 p1340 N84-18751
Sedimentology and invertebrate paleontology of Triassic and Jurassic Lacustrine deposits, Culpeper Basin, northern Virginia 13 p2014 N84-23064
Broken-formations of the Pulaski thrust sheet near Pulaski, Virginia 23 p3794 N84-34061

VIRGO GALACTIC CLUSTER
Spherical simulations of large scale structure in the universe 03 p0463 N84-13052

VIRGO STAR CLUSTER
U VIRGO GALACTIC CLUSTER

VIRIAL THEOREM
Gas-transfer analysis. Section B: Real gas results via the vanderWaals equation of state and virial extension of its limiting Abel-Noble form
[DE83-013281] 01 p0081 N84-10527
Global dynamics 07 p1031 N84-16686

VIRTUAL MEMORY SYSTEMS
Design and implementation of a BASIC cross-compiler and virtual memory management system for the TI-59 programmable calculator
[AD-A132172] 04 p0577 N84-13808
Empirical studies of program behaviour in virtual memory
[PB84-112267] 08 p1214 N84-17921

VIRTUAL PROPERTIES
The principle of virtual work and a principle of virtual heat as a basis for nonlinear finite element analysis
[WTHD-157] 07 p1005 N84-16522
The principle of virtual work and associated variational principles
[AD-B071515] 16 p2549 N84-26361

VIRUSES
Hygienic microbiological/virological examination of an airwasher concerning the emission of airborne microorganisms
[BMFT-FB-T-83-130] 02 p0265 N84-11742
USSR Report: Life sciences biomedical and behavioral sciences
[JPRS-UBB-84-013] 17 p2740 N84-27397

Lack of an effect of corpuscular vaccine against I phase Q-fever on persistence and reactivation of Coxiella burnetii infection in mouse and guinea pigs tissue
17 p2741 N84-27402
Use of radial hemolysis method in gel for detection of antibodies to Bunya virus Lednice (Turlock virus group)
17 p2741 N84-27403
Roles of ionizing radiation in cell transformation
[DE84-013397] 22 p3629 N84-32995

VISCERA
NT ABDOMEN
NT ADRENAL GLAND
NT BLADDER
NT KIDNEYS
NT LIVER
NT LUNGS
NT ORGANS
NT PARATHYROID GLAND
NT PITUITARY GLAND
NT STOMACH
NT THYROID GLAND

VISCOELASTIC DAMPING
Study on damping representation related to spacecraft structural design
[EMSB-18/83] 06 p0795 N84-15182
Suitability of viscoelastic materials for nutation damping of spin-stabilized satellites
[ILR-55] 09 p1272 N84-18307

VISCOELASTIC FLOW
U VISCOELASTICITY

VISCOELASTICITY
NT THERMOVISCOELASTICITY
The mechanics of bridging cracks
[BLL-T6144/LRST652/83(9022.048)] 01 p0057 N84-10369
An experimental study of heat and momentum transfer in pipe flow of viscoelastic fluids
01 p0076 N84-10497
A local existence and uniqueness theorem for a K-BKZ-fluid
[AD-A130503] 01 p0131 N84-10861
Finite element simulation of viscoelastic flows
02 p0217 N84-11423
Crustal deformation, the earthquake cycle, and models of viscoelastic flow in the asthenosphere
[NASA-TM-85117] 03 p0407 N84-12662
An analysis of acoustic and seismic wave resonances
04 p0561 N84-13701
Linear and nonlinear viscoelastic constitutive relations of cord reinforced elastomers
[DE84-002371] 05 p0660 N84-14338
Nonlinear viscoelastic characterization of structural adhesives
[NASA-CR-172279] 06 p0809 N84-15268
Finite element and boundary element analysis of large strain large displacement problems in elastoplasticity
06 p0857 N84-15580
The dynamic response characteristics of a viscoelastic beam on periodically-spaced, viscoelastic supports
06 p0862 N84-15619
Remarks on the stability of viscometric flow
[AD-A134571] 07 p1002 N84-16500
Propagation of crazing in viscoelastic media
[NASA-CR-173244] 07 p1015 N84-16583
Fracture and contact problems for linearly viscoelastic material
[AD-A135111] 08 p1170 N84-17624
Determination of the viscoelastic shear modulus using forced torsional vibrations
[PB84-119700] 08 p1173 N84-17638
Viscoelastic analysis of adhesive stresses in bonded joints
[NASA-CR-173243] 09 p1288 N84-18411
Global existence and asymptotics in one-dimensional nonlinear viscoelasticity
[AD-A136367] 09 p1374 N84-18970
Initial value problems for viscoelastic liquids
[AD-A136425] 09 p1375 N84-18980
Shearing deformation of simple materials
11 p1666 N84-20872
A numerical model of interactions between a polar ice stream, the ocean and the solid earth: Application to ice stream E, West Antarctica 11 p1689 N84-21013
Measurement of fast transient and steady state responses of viscoelastic fluids with a sliding cylinder rheometer executing coaxial displacements
[AD-A137996] 12 p1816 N84-21835
The effect of fluid inertia and viscoelasticity in squeeze-film damper bearings
[AD-A138054] 12 p1822 N84-21880
Contact-stress analysis of elastic-viscoelastic interface conditions
[AD-A138834] 13 p1964 N84-22759
A finite difference study of the stretching and break-up of filaments of polymer solutions
[AD-A139258] 14 p2130 N84-23767
On some dynamic problems in layered elastic-viscoelastic beams 15 p2309 N84-24856
Time dependent quasifracture nucleation and propagation 15 p2349 N84-25097
Dynamic, steady-state crack propagation in linear isotropic viscoelastic material
[AD-P003114] 16 p2488 N84-25819
Viscoelastic effect on dynamic crack propagation in Homalite 100
[AD-P003115] 16 p2488 N84-25820
Second-order effects in complex rheological flows
16 p2494 N84-25999
Attempt to study by ocular inspection the influence of rubber quality on the sealing effects of O-rings
[FOA-C-20526-E4] 16 p2498 N84-26030
The nonlinear viscoelastic response of resin matrix composite laminates
[NASA-CR-3772] 17 p2617 N84-26750
Excitation of spheroidal oscillations in viscoelastic Earth 17 p2702 N84-27214
Kinetic-elastic approach for time-dependent rheological data on slurry fuels and polymers
[AD-A141210] 18 p2821 N84-27911
The dynamic steady-state propagation of an anti-plane shear crack in a general linearly viscoelastic layer
[AD-A140980] 18 p2853 N84-28115
Hyperbolicity and change of type in the flow of viscoelastic fluids
[AD-A141508] 19 p3023 N84-29172
The cauchy problem in one-dimensional nonlinear viscoelasticity
[AD-A141507] 19 p3084 N84-29576
On a class of quasilinear partial integrodifferential equations with singular kernels
[AD-A141700] 19 p3087 N84-29595
Nonlinear structural characterization of solid propellants 20 p3142 N84-29951
Characterization of block copolymers based on poly(3,3 -bis(ethnoxymethyl)oxetane) and other novel polyethers
[AD-A142606] 20 p3162 N84-30081
Viscoelastic and aging characteristics of polymers
[DE84-012689] 21 p3371 N84-31393
Acta armamentarii (selected articles)
[AD-A143904] 23 p3726 N84-33610
Effect of Weissenberg number on turbulent heat transfer and friction factor of viscoelastic fluids
23 p3745 N84-33743

VISCOMETERS
Measurements of elongational viscometry using a fiber spinning technique. Part 1: Modifications to the Sangamo Schlumberger elongational viscometer model E4
[AD-A140002] 15 p2333 N84-25010
Helical screw viscometer
[DE84-011111] 20 p3189 N84-30261
Rotational viscometer for high-pressure, high-temperature fluids
[DE84-011094] 20 p3190 N84-30264
Research on Instrumentation, Testing and Evaluation
[DE84-014859] 23 p3727 N84-33616

VISCOMETRY
Viscometric changes of engine oils
[REPT-12] 12 p1800 N84-21738
Helical screw rheometer: A new concept in rotational rheometry
[DE84-004055] 14 p2149 N84-23873
Measurements of elongational viscometry using a fiber spinning technique. Part 1: Modifications to the Sangamo Schlumberger elongational viscometer model E4
[AD-A140002] 15 p2333 N84-25010

VISCOPLASTIC FLOW
U VISCOPLASTICITY

VISCOPLASTICITY
Research and development program for the development of advanced time-temperature dependent constitutive relationships. Volume 2: Programming manual
[NASA-CR-168191-VOL-2] 01 p0094 N84-10614
Theory of viscoplastic shells for dynamic response
[AD-A131272] 01 p0096 N84-10624
La Recherche Aerospatiale, Bimonthly Bulletin, no. 1982-2, 207/March-April 1982
[ESA-TT-759] 04 p0478 N84-13143
Finite element and boundary element analysis of large strain large displacement problems in elastoplasticity
06 p0857 N84-15580
The high temperature viscoplastic fatigue behavior of IN-100 using the Bodner-Partom flow law
[AD-A135867] 09 p1282 N84-18375
Analysis of shear strain localization in thermal visco-plastic materials
[AD-A138186] 12 p1798 N84-21727
Study of large viscoplastic strains in cylindrical shells by method of magnetic-pulse loading
13 p1972 N84-22798
The effective behavior of inelastic composites
15 p2308 N84-24850
Experimental verification of constitutive equations for plasticity under biaxial, cyclic and nonradial loading conditions — of austenitic steel
[REPT-5011202-81-1] 17 p2625 N84-26798
Wave propagation in elastic-viscoplastic bodies
[REPT-23] 19 p3034 N84-29242
Numerical solution of viscoplastic flow problems by augmented lagrangians
[AD-A142793] 21 p3400 N84-31566

VISCOSITY
NT EDDY VISCOSITY
NT GAS VISCOSITY
Comparative testing of polymer solutions. Part 1: Preliminary evaluation of a rheometrics fluids rheometer
[AD-A130888] 01 p0050 N84-10322
Development of alternate silicone potting compounds. Volume 11: Influences of temperature, material variables and composition variables on the properties of substitute potting compounds
[DE83-013025] 01 p0051 N84-10326
Lecture notes for Bulk and Hourglass Viscosities in Wave Propagation Codes
[DE83-013042] 01 p0068 N84-10445
Non-Newtonian intrinsic viscosity of rigid ellipsoid solutions
[BLL-WH-570-(9091.9F)] 01 p0138 N84-10[illegible]3
Viscous effect on acoustic scattering by elastic solid cylinders and spheres
[DE83-014271] 01 p0140 N84-10920
Fatigue-crack propagation in viscous environments
[DE83-011741] 02 p0232 N84-11520
Numerical simulations of fuel droplet flows using a Lagrangian triangular mesh
[NASA-CR-168263] 03 p0370 N84-12411
Dissipative instabilities of magnetic neutral layers with velocity shear
[IFSI-82-13] 03 p0451 N84-12985
The effect of surface charge on the rheology of concentrated aqueous quartz suspensions
[CSIR-CENG-423] 04 p0493 N84-13235
Pseudospectral solution of inviscid flows with multiple discontinuities
[AD-A132084] 04 p0534 N84-13510
Prediction of multicomponent liquid-mixture viscosity from binary thermodynamic data
[DE83-011934] 04 p0536 N84-13524
Postglacial rebound observed by Lageos and the effective viscosity of the lower mantle
[NASA-TM-84982] 04 p0562 N84-13705
Wave propagation in porous rock and models for crustal structure 06 p0876 N84-15698
Fundamentals of non-Newtonian liquid flow on surfaces
[AD-A135543] 08 p1158 N84-17541
Atomic transport in metallic glasses
[AD-A136363] 09 p1282 N84-18373
Pressure measurements in a rapidly rotating and coning, highly viscous fluid
[AD-A136824] 10 p1491 N84-19753
Diffusion of gases in porous solids: Simulations and measurements
[DE84-004146] 10 p1494 N84-19771
Influence of anisotropy and viscosity on propagation on waves in multilayer cylinders 12 p1788 N84-21660
Viscometric changes of engine oils
[REPT-12] 12 p1800 N84-21738
Finite deformation of viscoelastic disks
[DE84-002795] 12 p1827 N84-21908
Influence of the viscous environments on fatigue crack propagation in a lower strength steel
[DE84-008247] 14 p2128 N84-23761
Instability of the flow of two immiscible liquids with different viscosities in a pipe
[AD-P002935] 14 p2196 N84-24175
Nonuniqueness and stability of the configuration of flow of immiscible fluids with different viscosities
[AD-P002937] 14 p2196 N84-24177
An investigation into the injection molding of PMR-15 polyimide
[NASA-CR-173550] 15 p2301 N84-24810
Measurements of elongational viscometry using a fiber spinning technique. Part 1: Modifications to the Sangamo Schlumberger elongational viscometer model E4
[AD-A140002] 15 p2333 N84-25010
Investigation of ice dynamics in the marginal zone
[AD-A138558] 15 p2374 N84-25243
Effective viscosity of a periodic suspension
[AD-A140483] 16 p2493 N84-25995
Logarithmic decrement of oscillations of low-viscosity fluid rotating inside cylindrical vessel
17 p2645 N84-26921
Kinetic-elastic approach for time-dependent rheological data on slurry fuels and polymers
[AD-A141210] 18 p2821 N84-27911
Flow properties of concentrated suspensions
[NASA-TM-77431] 19 p3021 N84-29154

Note on the displacement effect in a spinning fluid
[AD-A141590] 19 p3024 N84-29175
High-temperature lubricants for minimum-cooled diesel engines
[AD-A142426] 20 p3162 N84-30078
Study of ebullated bed fluid dynamics
[DE84-010230] 20 p3187 N84-30251
Blade endwall flows in an axial flow compressor stage
21 p3343 N84-31209
Hopf bifurcation in two-component flow
[AD-A142844] 21 p3400 N84-31568
Lubrication of machine elements
[NASA-RP-1126] 21 p3413 N84-31640
Flux-vector splitting and Runge-Kutta methods for the Euler equations
[NASA-CR-172415] 21 p3470 N84-31993
Effects of cyclohexyl groups and ortho-substituents on the viscosity of ester liquid crystal components
[AD-A143028] 21 p3504 N84-32205
Liquid crystal materials for matrix displays
[AD-A143039] 21 p3504 N84-32206
Boundary-layer linear stability theory
23 p3748 N84-33759
Method and apparatus for measuring shear modulus and viscosity of a monomolecular film
[DE84-014502] 23 p3761 N84-33841
Melt-flow-toughness modified polyimide
[NASA-CASE-LAR-13135-1] 24 p3887 N84-34616
On numerical methods in non-Newtonian flows
[DE84-701276] 24 p3899 N84-34691

VISCOUS DAMPING
NT VISCOELASTIC DAMPING
Determination of the viscoelastic shear modulus using forced torsional vibrations
[PB84-119700] 08 p1173 N84-17638
The design of a test procedure for the measurement of acoustic damping materials at low stress
[AD-A132701] 18 p2853 N84-28113

VISCOUS DRAG
High rate straining and mechanical properties of materials
[QUEL-1502/83] 15 p2350 N84-25106
Calculation of hydraulic friction losses in dc motors filled with liquid dielectric 21 p3380 N84-31450

VISCOUS FLOW
NT BOUNDARY LAYER FLOW
NT BOUNDARY LAYER SEPARATION
NT COUETTE FLOW
NT REATTACHED FLOW
NT SECONDARY FLOW
NT SEPARATED FLOW
NT STOKES FLOW
Viscous shock-layer predictions of three-dimensional nonequilibrium flows past the space shuttle at high angle of attack 01 p0024 N84-10151
A generalized solution technique for the parabolized Navier-Stokes equations 02 p0173 N84-11137
Subsonic/Transonic Aerodynamic Interference for Aircraft: Introductory remarks 03 p0317 N84-12073
Subsonic/transonic viscous interactions
03 p0317 N84-12075
Viscous three-dimensional - flow separations from high-wing propeller-turbine nacelle models
03 p0323 N84-12115
Rising bubbles
[AD-A131572] 03 p0371 N84-12418
Results of a new version of the LTRAN2-NLR (LTRANV) for unsteady viscous transonic flow computations
[NLR-TR-81078-U] 03 p0374 N84-12434
A viscous-inviscid interactive procedure for rotational flow in cascades of two dimensional airfoils of arbitrary shape
[NASA-CR-174609] 04 p0478 N84-13149
Three-dimensional viscous design methodology for advanced technology aircraft supersonic inlet systems
[NASA-TM-83558] 04 p0485 N84-13190
Finite elements and the divergence constraint for viscous flows 04 p0530 N84-13486
The disturbance flow field produced by an evolving vortex
[NASA-TP-2245] 04 p0532 N84-13500
A free-boundary problem arising from a galvanizing process
[AD-A132853] 05 p0655 N84-14304
Further development of a method for computing three-dimensional subsonic viscous flows in turbofan lobe mixers
[NASA-CR-168304] 05 p0679 N84-14462
On a viscometric flow of a simple fluid
[AD-A132852] 05 p0681 N84-14476
An assumed deviatoric stress-velocity-pressure mixed finite element method for unsteady convective, incompressible viscous flow 06 p0833 N84-15420
Viscous Effects in Turbomachines
[AGARD-CP-351] 07 p0954 N84-16188
Progress in computation of viscous inviscid interaction
07 p0954 N84-16189
Application of an inviscid-viscous interaction method to transonic compressor cascades
07 p0954 N84-16190
A viscid inviscid interaction procedure for two dimensional cascades 07 p0955 N84-16191
A coupling method for the inverse mode calculation of transonic internal flows with a shock wave
07 p0955 N84-16194
Aerodynamic computation method of airfoil cascades subjected to viscous flow 07 p0956 N84-16198
Viscous effects and heat transfer in a calculation method for axisymmetric flow in multistage turbomachines using the stream function 07 p0956 N84-16201
Boundary layer development on rotating bodies of revolution 07 p0957 N84-16204
Experimental and theoretical studies of parietal viscous boundaries in a single stage transonic compressor
07 p0957 N84-16206
Flow measurements in the stator row of a single-stage transonic axial-flow compressor with controlled diffusion stator blades 07 p0958 N84-16209
Remarks on the stability of viscometric flow
[AD-A134571] 07 p1002 N84-16500
Impact experiments in viscous fluid media
[NASA-CR-173196] 07 p1040 N84-16745
Comparison of secondary flows predicted by a viscous code and an inviscid code with experimental data for a turning duct
[NASA-TM-83575] 08 p1098 N84-17142
Stability of the laminar boundary layer in a streamwise corner
[NASA-CR-173282] 08 p1157 N84-17532
Unsteady viscous transonic flow computations using LTRAN2-NLR code coupled with Green's lag-entrainment method
[NLR-MP-82052-U] 09 p1253 N84-18181
The generation of three-dimensional body-fitted coordinate systems for viscous flow problems
[AD-A136503] 09 p1314 N84-18588
Analysis of three-dimensional viscous internal flows
[AD-A135762] 09 p1315 N84-18592
Finite element simulation of viscous incompressible flows
[DE84-004355] 10 p1494 N84-19769
Solution of particulated viscous flow over a two dimensional cylinder and in a radial inflow turbine
10 p1496 N84-19782
Steady viscous flow past a circular cylinder
10 p1560 N84-20223
The present calculation method of adhering layers on aircraft wings
[AD-A137585] 11 p1602 N84-20496
A study of the coherent structures in the viscous wall region of a turbulent flow
[AD-A137875] 11 p1652 N84-20788
Computation of viscous flow about advanced projectiles
[AD-A137935] 11 p1653 N84-20790
A radically new approach to the installation of optical fibre using the viscous flow of air
11 p1724 N84-21247
Bibliography and abstracts of papers pertaining to applied mathematics
[AD-A137823] 11 p1750 N84-21420
Research activities of the Applied Mathematics Group
[AD-A137838] 11 p1750 N84-21422
Inverse transonic airfoil design methods including boundary layer and viscous interaction effects
[NASA-CR-173449] 12 p1765 N84-21514
Analysis of inviscid and viscous flows in cascades with an explicit multiple-grid algorithm
[NASA-TM-83636] 13 p1925 N84-22527
Three-dimensional nonequilibrium viscous shock-layer flow over the Space Shuttle orbiter
13 p1925 N84-22530
Three-dimensional nonequilibrium viscous shock-layer flows over complex reentry vehicles
13 p1927 N84-22543
Fluid-dynamically coupled solid propellant combustion instability - cold flow simulation
13 p1945 N84-22644
Physical aspects of computing the flow of a viscous fluid
[NASA-TM-85893] 14 p2100 N84-23605
Computation of viscous flows over airfoils, including separation, with a coupling approach
[NASA-TM-77079] 14 p2101 N84-23607
Instability of the flow of two immiscible liquids with different viscosities in a pipe
[AD-P002935] 14 p2196 N84-24175
Nonuniqueness and stability of the configuration of flow of immiscible fluids with different viscosities
[AD-P002937] 14 p2196 N84-24177
Artificial mass concept and transonic viscous flow equation
[AD-P002946] 14 p2198 N84-24186
Numerical boundary conditions for flow problems
[AD-P002960] 14 p2200 N84-24200
High Reynolds number solutions for incompressible viscous flow using the reduced basis technique
15 p2317 N84-24905
The effect of ice temperature on regelation velocities
15 p2353 N84-25113
Computational techniques for hypersonic flows
16 p2442 N84-25666
Coherent structure modeling of viscous sublayer turbulence for incompressible flow with heat transfer and for compressible flow
[AD-A140478] 16 p2493 N84-25994
A computational method for viscous incompressible flows
[NASA-TM-85958] 17 p2600 N84-26664
A solution procedure for three-dimensional incompressible Navier-Stokes equation and its application
[NASA-TM-85978] 17 p2600 N84-26666
A quasi-simultaneous calculation method for strongly interacting viscous flow around an infinite swept wing
[NLR-MP-83001-U] 17 p2601 N84-26672
Mathematical modeling of transient separation flow around circular cylinder 17 p2644 N84-26916
Method of calculating strong viscous interaction at delta wing 17 p2644 N84-26918
Logarithmic decrement of oscillations of low-viscosity fluid rotating inside cylindrical vessel
17 p2645 N84-26921
Solution of 3-dimensional time-dependent viscous flows. Part 2: Development of the computer code
[NASA-CR-166565-PT-2] 17 p2666 N84-27002
A critical assessment of viscous models of trench topography and corner flow
[NASA-CR-173648] 17 p2667 N84-27005
Mixing-length formulations for turbulent boundary layers over arbitrarily rough surfaces
[AD-A140560] 17 p2667 N84-27009
A numerical view on strong viscous-inviscid interaction
[NLR-MP-83049-U] 17 p2669 N84-27020
Solution of 3-dimensional time-dependent viscous flows. Part 1: Investigation of candidate algorithms
[NASA-CR-166565-PT-1] 17 p2757 N84-27503
Viscous-inviscid interaction method including wake effects for three-dimensional wing-body configurations
[NASA-TP-1910] 18 p2786 N84-27682
Three-dimensional unsteady viscous flow analysis over airfoil sections
[NASA-CR-172368] 19 p3020 N84-29152
Remarks on the flow between two parallel rotating plates
[AD-A141582] 19 p3023 N84-29174
Viscous computation of a space shuttle flow field
[NASA-TM-85977] 20 p3183 N84-30225
Inertial and shear flow 20 p3288 N84-30674
Calculation of the 3-D viscous flow at the endwall leading edge region of an axial annular turbine cascade
[NASA-CR-168275] 21 p3325 N84-31095
A space-marching method for the Navier-Stokes equations for internal flows 21 p3397 N84-31550
Simplified Navier-Stokes equations and combined solution of non-viscous and viscous boundary layer equations
[AD-A141634] 21 p3399 N84-31564
Stability of stationary rotation of cylinder filled with stratified viscous incompressible fluid
21 p3479 N84-32054
Hypersonic flow of viscous gas on surface of blunt cone with strong blow-in in blunted region
21 p3481 N84-32063
Simulation of transonic separated airfoil flow by finite difference viscous-inviscid interaction
[NASA-TM-85980] 22 p3531 N84-32358
Representation of potential flow about axisymmetric bodies with discrete singularities
[AD-A143526] 22 p3594 N84-32760
TRANSEP: A program for high lift separated flow about airfoils
[NASA-CR-3376] 23 p3690 N84-33386
Unsteady viscous-inviscid interaction procedures for transonic airfoil flows
[AD-A143764] 23 p3690 N84-33390
Laminar flow control - viscous simulation
23 p3749 N84-33764
Analysis of combustion oscillations in heterogeneous systems
[AD-A144436] 24 p3880 N84-34583
The calculation of the axisymmetrical subsonic viscous flow field of annular diffusers with prewhirling current at the inlets
[AD-A144534] 24 p3901 N84-34702

VISCOUS FLUIDS
On the stability of the unsteady boundary layer on a cylinder oscillating transversely in a viscous fluid
[NASA-CR-172218] 01 p0076 N84-10499
Diffusion on viscous fluids, existence and asymptotic properties of solutions
[AD-A134538] 07 p1063 N84-16891
Two-fluid couette flow between concentric cylinders
[AD-A137969] 12 p1815 N84-21834
Studies of the behavior of a snow cover on mountain slope. 13: Curves Caubh and Caubv in a circular snow cover 15 p2353 N84-25116
Remarks on the flow between two parallel rotating plates
[AD-A141582] 19 p3023 N84-29174
Global solutions for the one-dimensional equations of a viscous reactive gas
[AD-A142931] 21 p3400 N84-31569
Certain assumptions of theory of hydrodynamic lubrication during metal pressure working
[BLL-M-35681-(5828.4)] 22 p3603 N84-32822
VISIBILITY
NT LOW VISIBILITY
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F. Brize Norton RAF, United Kingdom
[AD-A131621] 02 p0254 N84-11663
The effects of character stroke width on the visibility of a head-coupled display
[AD-A132046] 04 p0484 N84-13183
Size of letters required for visibility as a function of viewing distance and observer visual acuity
[PB83-250589] 04 p0574 N84-13782
Time lapse simulation of interrelated weather conditions
[AD-A133999] 05 p0706 N84-14639
Effects of diesel vehicles on visibility in California
[PB84-122167] 06 p1184 N84-17714
Evaluation of visibility sensors at the Eglin Air Force Base climatic chamber
[AD-A135375] 06 p1190 N84-17758
Optical thickness as related to pollutant episodes and the concentration of visibility degrading pollutants
[NASA-CR-175203] 10 p1531 N84-20028
The feasibility of using precursor aerosol parameters to predict visibility in fog and haze
[AD-A137141] 10 p1539 N84-20084
Aircraft accident report: Eastern Air Lines, Inc., Boeing 727-225, N8838E, Raleigh, North Carolina, November 12, 1975
[PB83-910406] 11 p1603 N84-20500
Laboratory evaluation of novel particulate control concepts for jet engine test cells
[AD-A137641] 11 p1620 N84-20603
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Dyess AFB, Texas
[AD-A137575] 11 p1685 N84-20991
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Part A-F: Phillips, Aberdeen, Maryland
[AD-A137577] 11 p1685 N84-20993
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Gela, Italy
[AD-A137578] 11 p1686 N84-20994
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Dhahran, Saudi Arabia
[AD-A137580] 11 p1686 N84-20995
Limited Surface Observations Climatic Survey (LISOCS), Baumholder, West Germany
[AD-A137582] 11 p1686 N84-20997
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Andersen AFB, Guam
[AD-A137583] 11 p1686 N84-20998
An automatic sine-wave grating controller to be used for contrast sensitivity testing
[AD-A138294] 12 p1812 N84-21811
AWOS (Automatic Weather Observing System) sensor evaluation. Transmissometer, forward-scatter meter and lidar ceilometer
[AD-A138743] 13 p2017 N84-23074
Meteorological and climatological conditions affecting the vertical structure of visibility in Northern Germany
[AD-A139126] 14 p2179 N84-24052
Simultaneous observation of snowfall intensity and visibility in winter at Sapporo 15 p2354 N84-25125
Dyes for displays
[BMFT-FB-T-84-100] 16 p2557 N84-26401
Foundations of a numerical model of slant visibility
[ESA-TT-757] 16 p2557 N84-26403
Estimating detection range and range loss looking through windshields and Head-Up Displays
[AD-P003161] 17 p2588 N84-26592
Diurnal and annual variation of climatic elements in Finland
[T-551.563.13(480)] 18 p2883 N84-28294
Tactical visibility meter
[AD-A141286] 18 p2890 N84-28347
Joint probability of selected cloud and visibility thresholds around Frankfurt, Germany
[AD-A141342] 18 p2891 N84-28348
The visibility of stationary and moving targets in the plane subject to a Poisson field of shadowing elements
[AD-A141305] 18 p2927 N84-28562
Identification of exit taxiways (retroflective markers only)
[FAA-CT-83-5] 19 p2969 N84-28812
Visual obscuration by smoke screens: Results of the Oldebroek 2 trials, May 1981 Part 1: Theory, methods and photometric analysis
[IZF-1984-10] 19 p3105 N84-29730
Two approaches to the instrumental estimation of detectability 24 p3915 N84-34789
Meteorological and climatological conditions affecting the vertical structure of visibility in northern Germany
[AD-A144352] 24 p3934 N84-34902
VISIBLE INFRARED SPIN SCAN RADIOMETER
Evaluation of 2 1-D cloud models for the analysis of VAS soundings
[NASA-CR-3771] 06 p0881 N84-15729
Performance appraisal of VAS radiometry for GOES-4, -5 and -6
[NASA-TM-85125] 09 p1344 N84-18781
VISSR observation of the solar eclipse in rapid-interval limited scan mode 09 p1347 N84-18802
Use of VAS multispectral data for sea surface temperature determination 12 p1836 N84-21967
Application of VISSR Atmospheric Sounder (VAS) data
[NASA-TM-82574] 13 p2016 N84-23073
Calculations of atmospheric transmittance in the 11 micrometer window for estimating skin temperature from VISSR infrared brightness temperatures
[NASA-TM-86105] 15 p2319 N84-24922
VISSR IR grid data processing 24 p3922 N84-34821
Regional scale simulation of atmospheric structure using VAS data 24 p3929 N84-34869
Statistical analysis and use of the VAS radiance data 24 p3929 N84-34870
Statistical severe storm nowcasting comparison of VAS and Rawinsonde soundings 24 p3930 N84-34878
NSSFC: VAS assessment activities 24 p3932 N84-34891
A statistical evaluation and comparison of VISSR Atmospheric Sounder (VAS) data 24 p3932 N84-34892
VAS sounding data evaluation 24 p3933 N84-34893
Evaluation and development of new VAS remote sensing algorithms 24 p3933 N84-34894
Automated mesoscale winds derived from GOES multispectral imagery 24 p3933 N84-34895
VISIBLE RADIATION
U LIGHT (VISIBLE RADIATION)
VISIBLE SPECTRUM
Advanced diagnostics and instrumentation for chemically reactive flow systems
[AD-A131814] 03 p0346 N84-12251
Interpretation of HCMM images: A regional study 05 p0696 N84-14566
Visible and infrared studies of ataclysmic variable stars 05 p0782 N84-14997
Development of visible/infrared/microwave agriculture classification and biomass estimation algorithms, volume 2 — Oklahoma and Texas
[E84-10059] 06 p0864 N84-15629
Concept study phase A2 for the solar spectrograph PETRA
[BMFT-FB-W-83-014] 07 p1008 N84-16540
ERG (Electroretinogram) implicit time: An exploration of high frequency wavelets recorded in the human visual system
[AD-A134575] 08 p1201 N84-17832
The optical spectra of aerosols
[AD-A135687] 09 p1377 N84-18993
Implications of the three GRB optical flashes 09 p1407 N84-19192
The Cloud Field Simulation Project 10 p1578 N84-20338
The optical spectra of aerosols
[AD-A141571] 19 p3104 N84-29719
Alkali-SO2 chemiluminescence: Vibrational population inversion in the B state of S2
[AD-A143639] 23 p3754 N84-33794
Autonomous surveillance in the visual spectral region 24 p3914 N84-34786
Spectral analysis of helium poor hot subdwarfs 24 p3976 N84-35181
An IUE study of Be stars with Fe 2 emissions in the visible 24 p3976 N84-35186
The ultraviolet spectrum of stars having optical Fe 2 emission lines 24 p3977 N84-35188
VISION
NT BINOCULAR VISION
NT COLOR VISION
NT NIGHT VISION
NT STEREOSCOPIC VISION
Figural aftereffects: An explanation in terms of multiple mechanisms in the human visual system
[AD-A132066] 03 p0415 N84-12715
Vestibulo-ocular reflex gain in man during active versus passive oscillation and the influence of voluntary gaze-control tasks
[AD-A132006] 03 p0415 N84-12717
Basic vision events
[AD-A132746] 06 p0890 N84-15782
Primary events in vision - investigation of basic eye responses
[AD-A132747] 06 p0890 N84-15783
Spatial localization in strabismic observers
[AD-A132748] 06 p0890 N84-15784
Satellite broadcasting: Protection ratio requirements for enhanced transmissions using extended PAL vision and digital sound signals
[BBC-RD-1983/16] 07 p0966 N84-16386
The 1980 and 1981 accident experience of civil airmen with selected visual pathology
[AD-A134698] 08 p1101 N84-17158
ERG (Electroretinogram) implicit time: An exploration of high frequency wavelets recorded in the human visual system
[AD-A134575] 08 p1201 N84-17832
N1 and P1 components of the visual evoked response in humans. A topographical and functional comparison
[AD-A137030] 10 p1547 N84-20141
Distribution of visual characteristics of Naval aviation personnel
[AD-A135930] 10 p1547 N84-20144
Some comparisons between NVL and oracle-based MRTD approaches — vision models
[BAE-BT-11240] 13 p2020 N84-23096
A potentially powerful method of simple automatic recognition exhibiting scale and orientation independance — image processing
[BAE-BT-11088] 13 p2021 N84-23102
Some observations on relative approaches to visual acquisition modelling
[BAE-BT-11241] 13 p2021 N84-23104
The effects of Gx, Gy and Gz forces on cone mesopic vision
[AD-A139498] 14 p2185 N84-24092
Picking parts out of a bin
[AD-A139257] 14 p2187 N84-24106
Perception of the movement of visual scenes during horizontal body rotation
[NAL-TR-787] 16 p2538 N84-26292
Physiological assessment of capacity for processing increasing amounts of visual information by human operators 17 p2740 N84-27398
Animal models for the assessment of laser induced eye damage
[AD-P003293] 18 p2908 N84-28443
Eye accommodation, personality, and autonomic balance
[AD-A141499] 19 p3065 N84-29446
Computational experiments with a feature based stereo algorithm
[AD-A142549] 20 p3259 N84-30687
Portable visual function tester
[AD-D011105] 22 p3599 N84-32795
Visual function and the definition of thresholds for exposure to laser radiation 22 p3632 N84-33019
Physiology 22 p3684 N84-33363
Development of a general model of the car drivers eye movement sequences and effects of subject and environmental variables
[AD-A144180] 24 p3936 N84-34915
VISORS
Protection against heat radiation in the steel industry — protective visor
[FOA-C-20500-E4] 08 p1206 N84-17864
VISUAL ACCOMMODATION
Accommodative amplitude and speed measuring instrument
[AD-D011032] 19 p3071 N84-29484
VISUAL ACUITY
Preliminary investigation of variation in some dark adaptation aspects for possible relevance to military helicopter aircrew
[AD-A130231] 01 p0113 N84-10733
Size of letters required for visibility as a function of viewing distance and observer visual acuity
[PB83-250589] 04 p0574 N84-13782

Distribution of visual characteristics of Naval aviation personnel
[AD-A135930] 10 p1547 N84-20144
Functional assessment of laser irradiation
[AD-A139490] 15 p2378 N84-25273
Functional assessment of laser irradiation
[AD-A139507] 15 p2378 N84-25274
Visual perception through windscreens: Effects of minor occlusions and haze on operator performance
[AD-P003223] 17 p2596 N84-26636
Animal models for the assessment of laser induced eye damage
[AD-P003293] 18 p2908 N84-28443
Portable visual function tester
[AD-D011105] 22 p3599 N84-32795
Real-time optical filtering system with spatial and temporal enhancement of visual information
[AD-D011106] 22 p3656 N84-33172

VISUAL AIDS
User centered system design
[AD-A136131] 09 p1364 N84-18907
An optical analysis of the Farrand VCASS (Visually Coupled Airborne Systems Simulator) helmet-mounted display
[AD-A136649] 10 p1430 N84-19350
Automated Instructional Media Selection (AIMS)
[AD-A135749] 10 p1552 N84-20168
MAPPER user's manual
[DE84-003478] 11 p1706 N84-21133
Computer-assisted information graphics from the graphic design perspective
[DE84-006059] 12 p1884 N84-22281
Understanding picture-text instructions
[AD-A139746] 15 p2382 N84-25287
The design and production of a procedure training aid using the procedure learning format and the computer automated page layout (PLA) routine
[AD-A139988] 15 p2383 N84-25292
Visual cueing effectiveness: Comparison of perception and flying performance
[AD-P003458] 21 p3510 N84-32235
DMA and CIG: A shotgun wedding
[AD-P003459] 21 p3510 N84-32236
Low-Altitude Database Development Evaluation and Research (LADDER)
[AD-P003468] 21 p3511 N84-32243
Data base generation: Improving the state-of-the-art
[AD-P003470] 21 p3512 N84-32245
A system for embedding data displays in graphical contexts
[AD-A143630] 23 p3815 N84-34191
Comparison of color versus black-and-white visual displays as indicated by bombing and landing performance in the 2B35 TA-4J flight simulator
[AD-A144674] 24 p3857 N84-34455

VISUAL CONTROL
Results of a slant range visibility field test in Munich-Reim
[DFVLR-MITT-83-09] 08 p1102 N84-17169
Control of dynamic systems based on graphic information 13 p2029 N84-23159
Automated rendezvous and docking: A parametric study
[NASA-TP-2314] 14 p2115 N84-23677

VISUAL DISCRIMINATION
A potentially powerful method of simple automatic recognition exhibiting scale and orientation independance — image processing
[BAE-BT-11088] 13 p2021 N84-23102
Some considerations of forms and distributions of receptive field units in early visual processing
[BAE-BT-11177] 13 p2021 N84-23103
Detection of dotted forms in a structured visual noise environment
[AD-A138853] 13 p2022 N84-23108
Limits of pattern discrimination in human vision
[AD-A139921] 15 p2379 N84-25278
Brain responses and information processing IV. Investigations of hemispheric asymmetry in event related potentials and performance during discrimination of line orientation, color, shape and under visual masking
[AD-A139797] 15 p2383 N84-25289
Visual organization and information processing
[PB84-170778] 15 p2384 N84-25295
Aermedical Support in Military Helicopter Operations
[AGARD-LS-134] 16 p2536 N84-26279
Visual problems in helicopter operations 16 p2536 N84-26283
Disorientation in helicopter flight 16 p2536 N84-26284
Physiological assessment of capacity for processing increasing amounts of visual information by human operators 17 p2740 N84-27388
Influence of level of adaptation to light upon estimation of brightness 18 p2898 N84-28385
Uniform apparent contrast noise: A picture of the noise of the visual contrast detection system
[NASA-TM-85867] 19 p3067 N84-29456
Quantitative assessment of role of spatial frequencies of images in visual recognition of numbers 21 p3455 N84-31928
Visual information transfer. 1: Assessment of specific information needs. 2: The effects of degraded motion feedback. 3: Parameters of appropriate instrument scanning behavior
[NASA-CR-173913] 22 p3633 N84-33020
Physiology 22 p3684 N84-33363
Development of texture descriptions for images 24 p3914 N84-34785

VISUAL DISPLAYS
U DISPLAY DEVICES

VISUAL FIELDS
Visual accommodation trainer-tester
[NASA-CASE-ARC-11426-1] 03 p0338 N84-12193
The stability of visual field measures with repeated testing
[AD-A132704] 05 p0713 N84-14674
Visual field perimeter and psychomotor tracking performance measuring apparatus
[AD-D011056] 22 p3596 N84-32775

VISUAL FLIGHT
Visual problems in helicopter operations 16 p2536 N84-26283
Cleared for the visual approach: Human factor problems in air carrier operations
[NASA-CR-166573] 17 p2603 N84-26679
Static versus dynamic presentation of visual cues in simulated low level flight
[AD-P003360] 18 p2913 N84-28473
Simulator evaluation of a remotely piloted vehicle lateral landing task using a visual display
[NASA-TM-85903] 20 p3131 N84-29885
Visual information transfer. 1: Assessment of specific information needs. 2: The effects of degraded motion feedback. 3: Parameters of appropriate instrument scanning behavior
[NASA-CR-173913] 22 p3633 N84-33020

VISUAL FLIGHT RULES
Aircraft accident report - A. E. Staley Manufacturing Company, Inc., Canadair Challenger CL-600, N805C, Halley, Idaho, January 3, 1983
[PB83-910405] 04 p0482 N84-13169

VISUAL OBSERVATION
Observations of mutual phenomena of the Galilean satellites of Jupiter in 1979-1980 19 p3121 N84-29835

VISUAL PERCEPTION
NT SPACE PERCEPTION
NT VISUAL DISCRIMINATION
Automated stereo perception
[AD-A130645] 01 p0122 N84-10792
A study of texture analysis algorithms
[AD-A131498] 01 p0123 N84-10802
Pilot response with conventional displays 03 p0313 N84-12040
Figural aftereffects: An explanation in terms of multiple mechanisms in the human visual system
[AD-A132066] 03 p0415 N84-12715
Experimental studies relating environmental lighting and flicker to visual fatigue in VDT operators
[DE83-016316] 03 p0419 N84-12738
Four frames suffice. A provisionary model of vision and space
[AD-A132359] 04 p0580 N84-13625
Neuromagnetic localization of two components of the transient visual evoked response to patterned stimulation
[AD-A132546] 05 p0712 N84-14667
The stability of visual field measures with repeated testing
[AD-A132704] 05 p0713 N84-14674
Model of the behavior of the human visual system for the perception of contour elements — image processing
[FUB-44-1982] 05 p0714 N84-14677
Picking up an object from a pile of objects
[AD-A133631] 05 p0716 N84-14691
Real visual image compensation for head motion parallax effects as a function of object distance
[AD-A132915] 05 p0720 N84-14717
The possibility of reduction of the subjective redundance of image signals with particular reference to contour coding — visual perception
[FUB-43-1982] 05 p0748 N84-14911
Perception of higher derivatives of visual motion
[AD-A133908] 06 p0888 N84-15773
Optical flow and texture variables useful in simulating self motion (2)
[AD-A133597] 06 p0889 N84-15779
Basic vision events
[AD-A132746] 06 p0890 N84-15782
Primary events in vision - investigation of basic eye responses
[AD-A132747] 06 p0890 N84-15783
Spatial localization in strabismic observers
[AD-A132748] 06 p0890 N84-15784
Human visual information processing: Basic viewpoints from psychology and human engineering research
[NLR-MP-82032-U] 06 p0892 N84-15796
Photogrammetric method for determining geometric visual perception
[FOA-C-20478-D8] 07 p1008 N84-16539
Visual slant misperception and the Black-Hole landing situation
[NASA-TM-85886] 07 p1049 N84-16795
A sine-wave grating controller for vision testing
[AD-A135871] 09 p1318 N84-18610
Single trial brain electrical patterns of an auditory and visual perceptuomotor task
[AD-A135545] 09 p1362 N84-18899
N1 and P1 components of the visual evoked response in humans. A topographical and functional comparison
[AD-A137030] 10 p1547 N84-20141
Accuracy of visually perceived roll angle and roll rate using an artificial horizon and peripheral displays
[VTH-LR-377] 10 p1552 N84-20171
Three-dimensional graphics for scientific data display and analysis
[DE84-004075] 10 p1565 N84-20253
Aircraft control position indicator
[NASA-CASE-LAR-12984-1] 11 p1607 N84-20522
Yellow ophthalmic filters in the visual acquisition of aircraft
[AD-A138536] 13 p2020 N84-23097
The effect of haze on an operator's visual field and his target detection performance
[AD-A138330] 13 p2020 N84-23099
Modelling of visual search performance
[BAE-BT-14588] 13 p2021 N84-23106
The detection of nonplanar surfaces in visual space
[AD-A138761] 14 p2185 N84-24093
Proceedings of the 6th European Conference on Visual Perception
[AD-A139927] 15 p2379 N84-25279
Psychological research on advanced terrain representation: Formatting the visual material
[AD-A139782] 15 p2382 N84-25288
A consideration on the capability of receiving character-information
[NHK-SERIAL-294] 15 p2417 N84-25511
Eye movements and visual information processing
[AD-A140438] 16 p2538 N84-26296
The VERRUN and VERNAL software systems for steady-state visual evoked response experimentation
[NASA-CR-172311] 16 p2539 N84-26298
Visual effects of F-16 Canopy/HUD (Head-Up Display) integration
[AD-P003221] 17 p2595 N84-26634
Visual perception through windscreens: Effects of minor occlusions and haze on operator performance
[AD-P003223] 17 p2596 N84-26636
Automatic control of a visual physiology experiment, using MINC
[AD-A140607] 17 p2745 N84-27431
Display-control compatibility in 3-D displays
[AD-A140640] 17 p2748 N84-27444
Evaluation of HiMAT aircraft landing approach lateral control gearing using simulation and a visual display
[NASA-TM-84916] 18 p2796 N84-27743
Visual display technology: A developing challenge for the behavioral scientist
[AD-P003290] 18 p2908 N84-28441
Perceptual factors in low altitude flight
[AD-P003329] 18 p2911 N84-28460
Static versus dynamic presentation of visual cues in simulated low level flight
[AD-P003360] 18 p2913 N84-28473
Eye movements and spatial pattern vision
[AD-A140949] 18 p2914 N84-28481
Visual clarity with a black-and-White scene
[AD-A141498] 19 p3065 N84-29445
A re-evaluations of cancellation theory: Visual, vestibular and oculomotor contributions to perceived object motion
[AD-B082936] 19 p3067 N84-29455
Visual obscuration by smoke screens: Results of the Oldebroek 2 trials, May 1981 Part 1: Theory, methods and photometric analysis
[IZF-1984-10] 19 p3105 N84-29730
Horizontal diplopia thresholds for head-up displays
[AD-A141965] 20 p3129 N84-29872
Visual field perimeter and psychomotor tracking performance measuring apparatus
[AD-D011056] 22 p3596 N84-32775
Occupational Medicine Relevant to Aviation Medicine
[AGARD-CP-341] 22 p3631 N84-33011
Visual perception in systems management in aeronautics 22 p3632 N84-33017

A study of methods to predict and measure the transmission of sound through the walls of light aircraft. A survey of techniques for visualization of noise fields
[NASA-CR-173917] 22 p3652 N84-33146
Spatial performance, cognitive representation and cerebral procedures
[AD-A144095] 23 p3811 N84-34163
Extracts from symposium: Countersurveillance 1983
[MRL-R-921] 24 p3914 N84-34779
The time it takes to see 24 p3914 N84-34782
Cognitive processes in target acquisition 24 p3914 N84-34783
Detecting camouflaged targets: Theory into practice 24 p3914 N84-34784
The mechanism of human velocity discrimination
[AD-A144527] 24 p3936 N84-34918

VISUAL PIGMENTS
Crystallization of the membrane protein rhodopsin 23 p3804 N84-34120

VISUAL SIGNALS
The smoothest velocity field and token matching schemes
[AD-A133633] 05 p0732 N84-14809
Quantification of interference and detectability properties of visual stimuli for optimal display design
[AD-A135438] 08 p1232 N84-18049

VISUAL STIMULI
Figural aftereffects: An explanation in terms of multiple mechanisms in the human visual system
[AD-A132066] 03 p0415 N84-12715
Experimental studies relating environmental lighting and flicker to visual fatigue in VDT operators
[DE83-016316] 03 p0419 N84-12738
Spatiotemporal characteristics of visual localization
[AD-A133952] 06 p0888 N84-15770
Optical flow and texture variables useful in simulating self motion (2)
[AD-A133597] 06 p0889 N84-15779
Temporal aspects of eye movement when viewing multiple targets
[AD-A134853] 08 p1201 N84-17828
N1 and P1 components of the visual evoked response in humans. A topographical and functional comparison
[AD-A137030] 10 p1547 N84-20141
The limits of multiple resource theory: The role of task correlation/integration in optimal display formatting
[AD-A136692] 10 p1554 N84-20182
The application of a superconducting quantum interference device second-order gradiometer to measure visual evoked responses
[AD-A136407] 12 p1865 N84-22156
Some considerations of forms and distributions of receptive field units in early visual processing
[BAE-BT-11177] 13 p2021 N84-23103
Detection of dotted forms in a structured visual noise environment
[AD-A138853] 13 p2022 N84-23106
The detection of nonplanar surfaces in visual space
[AD-A138761] 14 p2185 N84-24093
Brain responses and information processing IV. Investigations of hemispheric asymmetry in event related potentials and performance during discrimination of line orientation, color, shape and under visual masking
[AD-A139797] 15 p2383 N84-25289
Disorientation in helicopter flight 16 p2536 N84-26284
Influence of level of adaptation to light upon estimation of brightness 18 p2898 N84-28385
Physiology 22 p3684 N84-33363

VISUAL TASKS
Human visual information processing: Basic viewpoints from psychology and human engineering research
[NLR-MP-82032-U] 06 p0892 N84-15798
Biofeedback methods and quality of operator's performance 17 p2740 N84-27399

VISUAL TRACKING
U OPTICAL TRACKING

VISUALIZATION OF FLOW
U FLOW VISUALIZATION

VITAMIN E
U TOCOPHEROL

VITAMINS
NT TOCOPHEROL
The stability of visual field measures with repeated testing
[AD-A132704] 05 p0713 N84-14674
The effects of marginal vitamin deficiency on mental performance
[IZF-1983-29] 18 p2914 N84-28483
Use of vitamins during adaptation to high altitudes 20 p3252 N84-30643
Multivariate curve resolution in liquid chromatography
[DE84-013797] 22 p3549 N84-32466

VITON
Physical techniques for profiling heterogeneous polymer degradation
[DE84-013807] 22 p3560 N84-32547

VITREOUS MATERIALS
Low-frequency Raman scattering from vitreous and molten B2O3
[AD-A132696] 05 p0649 N84-14269
A vibration damping treatment for high temperature gas turbine applications 10 p1514 N84-19912
Impact of weak electric field on photoconductivity of modified vitreous As2Se3 20 p3286 N84-30867

VITRIFICATION
Vitrification of highly-loaded SDS zeolites
[DE83-006198] 02 p0292 N84-11915
A dielectric study of the Time-Temperature-Transformation (TTT) diagram of DGEBA epoxy resins cured with DDS (Diaminodiphenylsulfone)
[AD-A137358] 10 p1466 N84-19573
The transformation of liquid to amorphous solid: The time to vitrify for styrene polymerization
[AD-A143228] 22 p3547 N84-32452

VLBI
U VERY LONG BASE INTERFEROMETRY

VLSI
U VERY LARGE SCALE INTEGRATION

VOCODERS
The vocoder project
[AD-A135820] 09 p1302 N84-18512
A recursive linear predictive vocoder
[AD-A138008] 12 p1805 N84-21770
Evaluation of the comprehension of non-continuous, sped-up vocoded speech: A strategy for coping with fading HF (High Frequency) channels
[AD-A138650] 13 p1982 N84-22871
Vocoder analysis based on properties of the human auditory system
[AD-A138660] 14 p2141 N84-23837
Wideband integrated voice/data technology
[AD-A139924] 15 p2321 N84-24937
Error margins by segmentation of speech signals with autocorrelation procedures for linear prediction coding systems
[FI-13-TBR-17] 16 p2481 N84-25911
Objective speech quality evaluation of real-time speech coders
[AD-A141194] 18 p2829 N84-27959
The Lincoln low-rate vocoder: A 1200/2400 bps LPC-10 voice terminal
[AD-A141291] 18 p2829 N84-27963
Narrowband (LPC-10) vocoder performance under combined effects of random bit errors and jet aircraft cabin noise
[AD-A141333] 18 p2830 N84-27967
Low rate voice transmission by a classifying vocoder
[ENST-84E002] 19 p3010 N84-29083
Results of investigation of adaptive speech codes 21 p3376 N84-31428
The discrimination of pitch in pulse trains and speech
[AD-A142996] 21 p3492 N84-32127

VOICE
Stress assessment through voice analysis
[AD-A132577] 04 p0573 N84-13773
Sensitivity based segmentation and identification in automatic speech recognition
[AD-A142255] 19 p3008 N84-29068
Effects of emotional and perceptual-motor stress on a voice recognition system's accuracy: An applied investigation
[AD-A142554] 20 p3175 N84-30160

VOICE COMMUNICATION
NT TELEPHONY
NT VOICE DATA PROCESSING
A comparison of the domestic satellite communications forecast to the year 2000
[NASA-TM-83516] 01 p0062 N84-10405
Audio signal management techniques
[AD-A130391] 01 p0062 N84-10410
The 2400- to 800-B/S LPC (Linear Predictive Coder) rate converter
[AD-A129825] 01 p0070 N84-10456
Investigation of air transportation technology at Princeton University 02 p0169 N84-11108
Cockpit voice recognition program at Princeton University 02 p0169 N84-11109
Proposed study to determine potential flight applications and human factors design guidelines of voice recognition/synthesis systems 03 p0314 N84-12047
Wideband integrated Voice/Data technology
[AD-A132284] 04 p0521 N84-13421
Linguistic methodology for the analysis of aviation accidents
[NASA-CR-3741] 06 p0784 N84-15135
Efficient utilization of the DRAMA service channel
[AD-A133286] 06 p0823 N84-15368
Dynamic control of session input rates in communication networks
[AD-A133572] 06 p0825 N84-15379
The satellite applications of amplitude companded single sideband modulation 06 p0827 N84-15391
Human factors issues associated with the use of speech technology in the cockpit
[NASA-CR-166548] 08 p1143 N84-17433
Jam-resistant speech encoding
[AD-A134707] 08 p1145 N84-17448
Real-time implementation of a speech digitization algorithm combining time-domain harmonic scaling and adaptive residual coding, volume 1
[AD-A135232] 08 p1150 N84-17485
Real-time implementation of a speech digitization algorithm combining time-domain harmonic scaling and adaptive residual coding, volume 2
[AD-A135233] 08 p1150 N84-17486
Status and progress of studies on the nature of speech, instrumentation for its investigation and practical applications
[AD-A136416] 09 p1298 N84-18488
Accuracy and speed of response to different voice types in a cockpit voice warning system
[AD-A135595] 09 p1301 N84-18503
Processing techniques for intelligibility improvement to speech with co-channel interference
[AD-A135702] 09 p1302 N84-18508
The vocoder project
[AD-A135820] 09 p1302 N84-18512
Interactive voice technology: Variations in the vocal utterances of speakers performing a stress-inducing task
[AD-A135932] 09 p1302 N84-18514
Protocol software for a packet voice terminal
[AD-A136938] 10 p1481 N84-19678
Voice preprocessing system incorporating a real-time spectrum analyzer with programmable switched-capacitor filters
[AD-A137999] 12 p1805 N84-21769
Jam-resistant tactical communications 13 p1976 N84-22828
Evaluation of the comprehension of non-continuous, sped-up vocoded speech: A strategy for coping with fading HF (High Frequency) channels
[AD-A138650] 13 p1982 N84-22871
Preliminary analysis of automatic speech recognition and synthesis technology
[AD-A138976] 13 p1983 N84-22877
RSRE speech data base recordings (1983). Part 1: Specification of vocabulary and recording procedure
[AD-A139361] 15 p2318 N84-24916
Wideband integrated voice/data technology
[AD-A139924] 15 p2321 N84-24937
Error margins by segmentation of speech signals with autocorrelation procedures for linear prediction coding systems
[FI-13-TBR-17] 16 p2481 N84-25911
Defense switched network technology and experiments program
[AD-A140609] 17 p2653 N84-26968
Multisensor speech input
[AD-A140894] 17 p2654 N84-26974
The Lincoln low-rate vocoder: A 1200/2400 bps LPC-10 voice terminal
[AD-A141291] 18 p2829 N84-27963
Voice communication and positive pressure breathing in noise
[AD-A141303] 18 p2830 N84-27965
MAGIC (Microcomputer Applications of Graphics and Interactive Communications). 1: A study of manual versus vocal control under heavy task loading
[AD-P003320] 18 p2910 N84-28456
Speech communications in noise 19 p3069 N84-29469
Noise-induced hearing impairment and handicap 19 p3069 N84-29473
Effects of emotional and perceptual-motor stress on a voice recognition system's accuracy: An applied investigation
[AD-A142554] 20 p3175 N84-30160
Development of a computer-assisted simulation of tactical voice communications. Phase 1: Conceptual design
[AD-A143036] 21 p3386 N84-31492
RLE Progress Report no. 126
[RLE-PR-126] 22 p3681 N84-33336
Speech communication 22 p3684 N84-33358
Algorithmization and programming of operator activities for parametric synthesis of speech using the CT-1 system controlled by the MERA 303 minicomputer
[ISSN-0208-5658] 23 p3729 N84-33634
Segmentation of the speech signal based on changes in energy distribution in the spectrum
[ISSN-0208-5658] 23 p3729 N84-33635

FM synthesizer-modulator with 1200 channels for SCPC transmission of voice signals by satellite — single channel per carrier transmission
[INPE-2615-PRE/371] 23 p3730 N84-33638
The Lincoln Laboratory-Aerospace Medical Research Laboratory digital speech test facility
[AD-A144303] 24 p3894 N84-34662

VOICE CONTROL
A comparison of manual and vocal response modes for the control of aircraft subsystems
[AD-A132048] 03 p0330 N84-12152
The satellite applications of amplitude companded single sideband modulation 06 p0827 N84-15391
Emulation of a voice interactive Doppler navigation set
[AD-A140204] 16 p2446 N84-25687
Alternative voice switching and control system display panel format simulation and evaluation
[NASA-CR-173644] 17 p2654 N84-26973

VOICE DATA PROCESSING
A programmable voice processor for fighter aircraft applications
[AD-A133780] 05 p0668 N84-14393
Increased aircraft survivability using direct voice input 06 p0778 N84-15100
Simply instrumentable and optimal digitization of analog information sources
[AD-A135124] 08 p1150 N84-17484
Voice processor for a single channel per carrier FM earth station
[INPE-2707-TDL/130] 09 p1298 N84-18485
Speaker recognition: Example of execution of a phonic test
[FUB-55-1982] 10 p1483 N84-19690
Bibliography on direct voice input and direct voice output
[BAE-BT-12363] 13 p2023 N84-23118
Error margins by segmentation of speech signals with autocorrelation procedures for linear prediction coding systems
[FI-13-TBR-17] 16 p2481 N84-25911
Objective speech quality evaluation of real-time speech coders
[AD-A141194] 18 p2829 N84-27959
Low rate voice transmission by a classifying vocoder
[ENST-84E002] 19 p3010 N84-29063

VOID RATIO
The Dugdale model for the compact specimen
[NASA-TM-85714] 03 p0388 N84-12529
Elastic-wave scattering from multiple voids (porosity)
[DE83-018076] 04 p0546 N84-13598
On the optical assessment of the void content in composite materials
[RAE-TM-MAT/STR-1024] 12 p1789 N84-21664
Compactness in semantics for merge and fair merge
[MC-IW-238/83] 13 p2035 N84-23199
G-spaces: Compactifications and pseudocompactness
[MC-ZW-200/83] 19 p3095 N84-29658

VOIDS
Detection of cavities under concrete pavement
[AD-A131851] 03 p0358 N84-12331
Inverse born approximation: Exact determination of shape of convex voids
[DE83-017685] 03 p0385 N84-12512
Measurements of ultrasonic scattering from near-surface flaws
[DE83-017693] 03 p0431 N84-12827
Elastic-wave scattering from multiple voids (porosity)
[DE83-018076] 04 p0546 N84-13598
Improved swelling resistance for PCA austenitic stainless steel under HFIR irradiation through microstructural control
[DE84-003203] 08 p1133 N84-17370
Influence of soft inclusions on the strength of wrought materials
[NASA-CR-173610] 16 p2464 N84-25791
Tensile fracture of ductile materials
[NASA-CR-173607] 16 p2464 N84-25792
Boundary migration and disappearance of voids in Alpha-Al2O3 at 2000 deg C
[NASA-TM-77436] 19 p3110 N84-29758
Void-particulate director
[DE84-011300] 20 p3190 N84-30262
Effective thermophysical and elastic properties of materials with voids
[DE84-013942] 22 p3549 N84-32465
Strengthening and strength uniformity of structral ceramics
[AD-A144302] 24 p3889 N84-34625

VOLATILITY
Personal exposure to volatile organics and other compounds indoors and outdoors: The TEAM (Total Exposure Assessment Methodology) study
[PB83-231357] 01 p0115 N84-10744
Geomorphic clues to the Martian volatile inventory: Landslides 13 p2086 N84-23516
Flashback flame arresters for fuel cargo tanks 15 p2431 N84-25601
Outgassing data for selecting spacecraft materials
[NASA-RP-1124] 17 p2617 N84-26751
Definition of the concentration gradient above flammable liquids
[DE84-008296] 20 p3149 N84-29996

VOLATILIZATION
U VAPORIZING

VOLCANICS
U VOLCANOLOGY

VOLCANOES
NT MARS VOLCANOES
Theoretical and empirical terrestrial heat flow studies 06 p0875 N84-15696
Investigation of forestry resources and other remote sensing data. 1: LANDSAT. 2: Remote sensing of volcanic emissions
[E84-10092] 10 p1522 N84-19963
Supplement to the technical assessment of geoscience-related research for geothermal energy technology
[DE84-002373] 10 p1530 N84-20020
Using the NOAA-7 AVHRR data to monitor El Chichon aerosol evolution and subsequent sea surface temperatures anomalies 10 p1539 N84-20083
Volcanism and rift formation in Beta Regio, Venus: New radar results 11 p1754 N84-21450
Significant achievements in the planetary geology program
[NASA-CR-3782] 11 p1758 N84-21474
Geology, geochemistry, and geochronology of volcanic rocks between Cuauhtemoc and La Junta, central Chihuhua, Mexico 13 p2014 N84-23066
Reports of planetary geology program, 1983
[NASA-TM-86246] 13 p2073 N84-23431
Modeling Io volcanism: Maximum volcanic temperatures, depths of melting and magma composition 13 p2073 N84-23436
Volcanic forms in the Kane Patera region, Io 13 p2073 N84-23437
Chronology, morphology and stratigraphy of pumiceous pyroclastic-flow (ignimbrite) deposits from the eruption of Mount St. Helens on 18 May 1983 13 p2080 N84-23476
Classification of volcanoes of the Kane Patera Quadrangle of Io: Proportions of lava flows and pyroclastic flows 13 p2080 N84-23477
Distribution and properties of small volcanoes in Acidalia Planitia 13 p2080 N84-23478
The 1950 sulfur flow of Mauna Loa: Considerations for Io 13 p2080 N84-23479
Effusion rate, length, and area relationships for some lava flows on Hawaii and Mount Etna with planetary implications 13 p2080 N84-23482
The 19 March 1982 eruption and lahar at Mount Saint Helens: Implications for Martian outflow channels? 13 p2083 N84-23495
Drainage evolution in the debris avalanche deposits near Mount Saint Helens, Washington 13 p2083 N84-23496
Planetary geomorphology field studies: Iceland and Antarctica 13 p2086 N84-23514
Thermal infrared analysis of volcanic surfaces: Mars and Hawaii 13 p2088 N84-23524
Valles Marineris layered deposits: Implications of origin 13 p2090 N84-23537
Radiative heat exchange in atmosphere disturbed by volcanic eruption 17 p2698 N84-27184
Deep geophysical investigations in zones of present-day active volcanism 17 p2701 N84-27204
Determination of the Io heat flow. 1: Eclipse observations
[NASA-CR-173631] 17 p2774 N84-27614
On Io, all that flickers is not cold
[NASA-CR-173447] 17 p2777 N84-27631
10: Models of volcanism and interior structure 17 p2777 N84-27634
Recent solar measurements results at the parabolic dish test site 18 p2875 N84-28258
Inevitable climatic changes 20 p3223 N84-30480
Targeting geothermal exploration sites in the Mount St. Helens area using solid mercury surveys
[DE84-012547] 20 p3229 N84-30519
In-stream distribution and hydraulic and ecological effects of volcanic ash from Mount St. Helens eruption
[PB84-169382] 20 p3230 N84-30526
The climatic impact of volcanic activity 22 p3624 N84-32963
Morphologic studies of the Moon and planets
[NASA-CR-173886] 22 p3678 N84-33319

VOLCANOLOGY
Clastic sedimentary rocks of the Michipicoten Volcanic-sedimentary belt, Wawa, Ontario 11 p1679 N84-20960
Geochemistry of volcanic rocks from the Wawa greenstone belt 11 p1680 N84-20963
The greenstone belts of Zimbabwe 11 p1681 N84-20968
The Archean crust in the Wawa-Chapleau-Timmins region. A field guidebook prepared for the 1983 Archean Geochemistry-Early Crustal Genesis Field Conference 11 p1681 N84-20969
Laboratory infrared studies relevant to Io: A satellite to the planet Jupiter
[NASA-CR-173378] 12 p1922 N84-22522
The plumes of IO: A detection of solid sulfur dioxide particles
[NASA-CR-175414] 12 p1922 N84-22523
Stratigraphic, geochemical, and petrologic studies of the Ammonoosuc volcanics, northcentral Massachusetts and southwestern New Hampshire 13 p2013 N84-23059
East Butte: A volcanic dome of the Eastern Snake River Plain, Idaho 13 p2079 N84-23475
The 1950 sulfur flow of Mauna Loa: Considerations for Io 13 p2080 N84-23479
Volcanism in the Valles Marineris 13 p2080 N84-23480
Volcanism in Elysium Planitia, Mars 13 p2080 N84-23481
Experiments on water/melt explosions, nature of products, and models of dispersal 13 p2081 N84-23483
Ridges on basalt flows 13 p2081 N84-23484
Calderas in the solar system 13 p2081 N84-23485
Geologic investigations of outer planets satellites
[NASA-CR-173497] 13 p2091 N84-23544
Geochemical analyses, age dates, and flow-volume estimates for quaternary volcanic rocks, Southern Cascade Mountains, Washington
[DE84-007662] 15 p2368 N84-25211
Geology of the Olympus Mons region of Mars 16 p2580 N84-26547
10: Models of volcanism and interior structure 17 p2777 N84-27634
Yearbook of the Bureau of Mineral Resources, Geology and Geophysics, Canberra, 1 July 1982 - 30 June 1983
[BMR-83] 19 p3037 N84-29266
Overseas programs 19 p3038 N84-29272
Developments of research on prediction of earthquakes, tsunami and volcanic eruptions in Far East 20 p3224 N84-30485
Stratigraphic and volcano-tectonic relations of Crater Flat Tuff and some older volcanic units, Nye County, Nevada
[DE84-010926] 20 p3242 N84-30584
Age discrimination among basalt flows using digitally enhanced LANDSAT imagery — Saudi Arabia
[E84-10189] 21 p3430 N84-31760
Geology and geochemistry of the Arctic prospect, Ambler District, Alaska 21 p3438 N84-31814
Volcanism, plutonism, and sedimentation in a late Devonian Submarine Island-arc setting, Northern Sierra Nevada, California 21 p3441 N84-31831

VOLT-AMPERE CHARACTERISTICS
Influence of unbalanced three-phase current on characteristics of high-speed LIM 07 p0983 N84-16365
Magnetic impurity scattering in in situ superconductors
[DE84-012835] 21 p3505 N84-32212

VOLTAGE
U ELECTRIC POTENTIAL

VOLTAGE BREAKDOWN
U ELECTRICAL FAULTS

VOLTAGE CONTROLLED OSCILLATORS
La Recherche Aerospatiale, Bimonthly Bulletin, no. 1982-6, 211/November-December 1982
[ESA-TT-801] 04 p0515 N84-13382
Applications of Josephson junction squids and arrays
[AD-A134114] 05 p0673 N84-14425
Rubidium frequency standard study
[AD-A134713] 08 p1151 N84-17492
An improved MSK generator diagnostic unit
[AD-A140568] 17 p2672 N84-27028
Narrow deviation voltage controlled crystal oscillator
[AD-D011033] 19 p3018 N84-29133
Phase shift keying apparatus
[AD-D011119] 22 p3577 N84-32660
Research in monolithic, signal-processing circuits
[AD-A143204] 22 p3586 N84-32709
A microwave oscillator controlled by pressure and stabilized by a 1250 MHz cavity resonator — single channel per carrier transmission
[INPE-3173-PRE/543] 23 p3741 N84-33712

VOLTAGE CONVERTERS (AC TO AC)
Interruption of a dry-type transformer in no-load by a vacuum circuit-breaker
[EUT-83-E-141] 10 p1489 N84-19737

VOLTAGE CONVERTERS (DC TO DC)
Methodology for integration of HVDC links in large ac systems. Phase 1: Reference manual
[DE83-902302] 01 p0073 N84-10476
Selected aspects of radio interference from HVDC (High Voltage Direct Current) converter stations
[PB83-219675] 01 p0075 N84-10494
A dc to dc converter
[NASA-CASE-MFS-25430-1] 07 p0995 N84-16453
The 25 kW resonant dc/dc power converter
[NASA-CR-168273] 08 p1149 N84-17481
Input filter compensation for switching regulators
[NASA-CR-173557] 15 p2327 N84-24975
Simplified dc to dc converter
[NASA-CASE-LEW-13495-1] 23 p3734 N84-33663
VOLTAGE GENERATORS
NT PHOTOVOLTAIC CELLS
China builds first 6000kV type pulse voltage generator
[AD-A132564] 04 p0525 N84-13449
VOLTAGE MEASUREMENT
U ELECTRICAL MEASUREMENT
VOLTAGE REGULATORS
Derivation of linearized transfer functions for switching-mode regulations. Phase A: Current step-up and voltage step-up converters
[NASA-CR-175219] 10 p1485 N84-19707
Three phase power factor controller
[NASA-CASE-MFS-25535-2] 13 p1985 N84-22885
Low-frequency switching voltage regulators for terrestrial photovoltaic systems
[NASA-TM-83625] 16 p2483 N84-25926
Transformers with voltage regulation for electric supply networks 17 p2639 N84-26881
MST radar transmitter control and monitor system 17 p2693 N84-27150
Requirements for a transformerless power conditioning system
[NASA-CR-173742] 18 p2833 N84-27981
Effects of voltage control in utility interactive dispersed storage and generation systems
[NASA-CR-173730] 18 p2869 N84-28211
Methods for use of the single-electrode voltage clamp
[AD-A144177] 24 p3897 N84-34676
VOLTAGE VARIATION INDICATORS
U VOLTMETERS
VOLTERRA EQUATIONS
Homogenization for a Volterra equation
[AD-A134427] 07 p1061 N84-16882
A comparative survey of numerical methods for the linear generalized Abel integral equation
[MC-NW-155/83] 07 p1065 N84-16915
Volterra transfer functions from pulse tests for mildly nonlinear channels
[AD-A135703] 09 p1308 N84-18553
Global existence and asymptotics in one-dimensional nonlinear viscoelasticity
[AD-A136367] 09 p1374 N84-18970
On nonlinear systems and algebraic geometry
[RR-240] 13 p2034 N84-23196
Linear Volterra convolution equations: Semigroups small solutions and convergence of projection operators
[MC-TW-248/83] 13 p2038 N84-23223
On the generation of infinite dimensional bilinear systems and Volterra series
[RR-228] 14 p2219 N84-24318
The cauchy problem in one-dimensional nonlinear viscoelasticity
[AD-A141507] 19 p3084 N84-29576
Asymptotic estimates for resolvents of some nonintegrable Volterra kernels
[AD-A141662] 21 p3471 N84-31999
VOLTMETERS
Studies of the voltammetric determination of trace metals in seawater
[AD-A131164] 02 p0190 N84-11233
Oxygen electrodes for energy conversion and storage
[DE84-003919] 07 p0999 N84-16476
AC voltage calibrations for the 0.1 Hz to 10 Hz frequency range
[PB84-109867] 08 p1163 N84-17570
Electrochemistry of anilines. 2: Oxidation to dications, electrochemical and UV/VIS spectroelectrochemical investigation
[AD-A136949] 10 p1454 N84-19498
Simulation of edge effects in electroanalytical experiments by orthogonal collocation. Part 4: Application to voltammetric experiments
[AD-A136988] 10 p1455 N84-19500
Cathodic stripping voltammetry of thioamides on a rotating silver disk electrode
[AD-A139200] 14 p2122 N84-23718
Electrochemical and spectroelectrochemical studies of some coordination compounds in high oxidation states
[DE84-006637] 14 p2123 N84-23727
Amplitude-frequency method of measuring phase of reflection coefficient 18 p2826 N84-27942
Spectroscopic determination of the ac voltammetric response
[AD-A137321] 18 p2833 N84-27983
A voltmeter for remotely sensing high voltages
[AD-D011046] 19 p3027 N84-29199
VOLUME
A solution-adaptive finite-volume algorithm with application to problems in planetary entry 05 p0678 N84-14457
Volume integrals associated with the inhomogeneous Helmholtz equation. Part 1: Ellipsoidal region
[NASA-CR-3749] 05 p0689 N84-14525
Volume integrals associated with the inhomegeneous Helmholtz equation. Part 2: Cylindrical region; rectangular region
[NASA-CR-3750] 05 p0689 N84-14526
Accident surrogates for use in analyzing highway safety hazards. Volume 3: Appendices A-G
[PB84-174754] 16 p2478 N84-25885
Length distribution of chords through a rectangular volume
[AD-A143302] 22 p3577 N84-32654
VOLUMETRIC ANALYSIS
Description of a method and artifact for estimating volumetric uncertainty of coordinate measuring machines
[DE84-002017] 04 p0539 N84-13545
Volumetric representation for object model acquisition 12 p1870 N84-22189
VOLUMETRIC STRAIN
Comparison of methods for calculating energy release rates
[DE84-012231] 20 p3204 N84-30350
VOMITING
Prediction of vomiting in dogs exposed to radiation with shielding of midabdomen 02 p0261 N84-11710
Motion sickness incidence: Distribution of time to first emesis and comparison of some complex motion conditions
[AD-A131930] 04 p0573 N84-13772
VON KARMAN EQUATION
A gas-flow tracing technique applicable to rotating systems boundary layer on a rotating disk
[DE83-012761] 03 p0372 N84-12425
Analysis of the Von Karman equations by group methods
[AD-P002948] 14 p2198 N84-24188
VON MISES THEORY
U STRESS FUNCTIONS
VOR SYSTEMS
U VHF OMNIRANGE NAVIGATION
VORTEX ALLEVIATION
Helicopter blade tips
[NASA-TM-77370] 06 p0782 N84-15119
Wingtip vortex propeller
[NASA-CASE-LAR-13019-1] 11 p1602 N84-20495
VORTEX BREAKDOWN
Interaction between a shock-wave and a vortex flow 03 p0321 N84-12104
Vortex stability and breakdown 03 p0325 N84-12122
The break-up mechanism of a streamwise directed vortex 03 p0325 N84-12123
Vortex breakdown: A two-stage transition 03 p0325 N84-12124
A contribution to the problem of vortex breakdown 03 p0325 N84-12125
Numerical simulation of vortex breakdown by the vortex-filament method 03 p0325 N84-12126
Experimentation with turbulent flows experiencing the effects of an adverse pressure gradient 03 p0325 N84-12127
Waves on vortex cores and their relation to vortex breakdown 03 p0326 N84-12128
A synthesized model of the near-wall behavior in turbulent boundary layers
[AD-A137029] 10 p1493 N84-19764
VORTEX COLUMNS
U VORTICES
VORTEX DISTURBANCES
U VORTICES
VORTEX FILAMENTS
Numerical simulation of vortex breakdown by the vortex-filament method 03 p0325 N84-12126
VORTEX FLAPS
Instabilities in trailing vortices: Flow visualization using hot-wire anemometry 03 p0321 N84-12103
Vortex flap flow reattachment line and subsonic longitudinal aerodynamic data on 50 deg to 74 deg Delta wings on common fuselage
[NASA-TM-84618] 04 p0480 N84-13160
Vortex flap system for thin wings
[MBB-FE-122/S/PUB/102] 16 p2562 N84-26435
VORTEX FLOW
U VORTICES
VORTEX GENERATION
U VORTEX GENERATORS
VORTEX GENERATORS
On the generation and subsequent development of spiral vortex flow over a swept-back wing 03 p0322 N84-12105
Vortex stability and breakdown 03 p0325 N84-12122
Wind energy concentration within vortex flow fields and its utilization for the generation of energy, phase 1
[BMFT-FB-T-83-157] 05 p0700 N84-14591
A numerical investigation of the multiple vortex phenomenon: Vortex number and structure as a function of swirl ratio 06 p0931 N84-16049
The effects of blade mounted vortex generators on the noise from a MOD-2 wind turbine generator
[NASA-CR-172292] 08 p1227 N84-18017
Hot wire in low Reynolds number flow 08 p1237 N84-18087
Vortex generating flow passage design for increased film cooling effectiveness
[NASA-CASE-LEW-14039-1] 11 p1651 N84-20782
Accuracy of vortex methods
[DE84-005714] 11 p1654 N84-20796
Initial experiments on profile vortex interaction — helicopter noise
[MPIS-6/1983] 12 p1766 N84-21520
Numerical simulation of the tip vortex off a low-aspect-ratio wing at transonic speed
[NASA-TM-85932] 13 p1926 N84-22535
Fiscal Year 1983 programs, fiscal year 1984 projections
[PB84-158146] 14 p2181 N84-24066
Effect of vortex generators on the power conversion performance and structural dynamic loads of the Mod-2 wind turbine
[NASA-TM-83680] 19 p3049 N84-29347
Surface disturbances due to trailing vortices
[AD-A142693] 20 p3184 N84-30233
VORTEX RINGS
Computation of potential flows with embedded vortex rings and applications to helicopter rotor wakes
[NASA-CR-166542] 08 p1156 N84-17526
Energetics of vortex ring formation
[AD-A138795] 13 p1927 N84-22539
Experimental observations of vortex ring interaction with the fluid adjacent to a surface
[AD-A138999] 13 p1990 N84-22917
An investigation of the interaction of vortex rings and a laminar free jet flow
[MPIS-16/1983] 18 p2837 N84-28009
VORTEX SHEDDING
Rotor-vortex interaction noise
[NASA-CR-3744] 01 p0139 N84-10912
Flame acceleration mechanisms under conditions of partial confinement
[PB83-244012] 03 p0358 N84-12328
Prediction of vortex shedding from circular and noncircular bodies in supersonic flow
[NASA-CR-3754] 06 p1096 N84-17129
A cooperative program to stimulate student involvement through the MIT Undergraduate Research Opportunity Program
[NASA-CR-173300] 08 p1237 N84-18066
Hot wire in low Reynolds number flow 08 p1237 N84-18087
Effects of multiple cylinders on the formation of Von Karman vortex streets
[AD-A136930] 10 p1492 N84-19758
Aeroacoustic noise measurements in wind tunnel 14 p2097 N84-23584
Navier-Stokes calculations for the vortex of a rotor in hover
[NASA-TM-85894] 15 p2255 N84-24540
Oblique vortex induced vibration of cylinders
[BU-295] 15 p2350 N84-25104
VORTEX SHEETS
Wake vortices and their aerodynamic alleviation: A review of the literature
[DFVLR-MITT-83-07] 07 p0948 N84-16154
A circulation meter for the measurement of discrete vortices
[BU-300] 15 p2256 N84-24551
Theoretical modelling of three-dimensional vortex flows in aerodynamics
[AD-A134966] 17 p2667 N84-27007
Behaviour of a vortex sheet separating from a smooth surface
[RAE-TR-77058] 18 p2836 N84-27998
VORTEX STREETS
NT KARMAN VORTEX STREET
Effects of multiple cylinders on the formation of Von Karman vortex streets
[AD-A136930] 10 p1492 N84-19758

VORTEX TUBES
U HILSCH TUBES
U VORTICES
VORTICES
NT WING TIP VORTICES
Control of the forebody vortex orientation by asymmetric air injection. Part A: Application to enhance departure/spin recovery of fighter aircraft and Part B: Details of the flow structure 01 p0014 N84-10088
Low aspect ratio wing/body vortex interaction at large angles of pitch and yaw 02 p0173 N84-11140
A comparison of baroclinic eddy heat-transport parameterizations to a simplified general circulation model 02 p0252 N84-11650
Acoustic streaming as a mechanism of the Ranque-Hilsch effect 03 p0319 N84-12088
Stability of a pair of stationary vortices in the leeward side of a cylinder in a potential flowfield [AD-A131917] 03 p0320 N84-12095
Dynamic-stall regulation of the Darrieus turbine [DE83-017994] 03 p0321 N84-12097
Aerodynamics of Vortical Type Flows in Three Dimensions [AGARD-CP-342] 03 p0321 N84-12099
On issues concerning flow separation and vortical flows in three dimensions 03 p0321 N84-12100
On the structure of the turbulent vortex 03 p0321 N84-12102
Interaction between a shock-wave and a vortex flow 03 p0321 N84-12104
On the generation and subsequent development of spiral vortex flow over a swept-back wing 03 p0322 N84-12105
An experimental investigation of the vortex flow over delta and double-delta wings at low speed 03 p0322 N84-12106
Visualization of vortical type flows in three dimensions 03 p0322 N84-12107
Laser velocimetry study of compressibility effects on the flow field of a delta wing 03 p0322 N84-12108
Recent studies at NASA-Langley of vortical flows interacting with neighboring surfaces 03 p0322 N84-12109
Experimental investigation of forebody and wing leading-edge vortex interactions at high angles of attack 03 p0322 N84-12110
Some results from a programme of research into the structure of vortex flow fields around missile shapes 03 p0323 N84-12111
Predicting aerodynamic characteristics of vortical flows on three-dimensional configurations using a surface-singularity panel method 03 p0323 N84-12112
Separation and vortical-type flow around a prolate spheroid: Evaluation of relevant parameters 03 p0323 N84-12113
Theoretical modelling of three-dimensional vortex flows in aerodynamics 03 p0324 N84-12116
Computational vortex flow aerodynamics 03 p0324 N84-12117
Simulation of turbulent flows with a point vortex method 03 p0324 N84-12119
Vortical flow management for improved configuration aerodynamics: Recent experiences 03 p0326 N84-12129
Boundary layer segmentation on sharp highly swept leading edges and its effects on secondary vortices 03 p0326 N84-12132
La Recherche Aerospatiale, Bimonthly Bulletin, no. 1983-1/212, January-February 1983 [ESA-TT-814] 03 p0429 N84-12810
Random eddies in wakes and mixing layers — wind tunnel tests 03 p0429 N84-12813
A viscous-inviscid interactive procedure for rotational flow in cascades of two dimensional airfoils of arbitrary shape [NASA-CR-174809] 04 p0478 N84-13149
The disturbance flow field produced by an evolving vortex [NASA-TP-2245] 04 p0532 N84-13500
Further studies on equal-order interpolation for Navier-Stokes [DE84-000916] 04 p0534 N84-13512
Vortex shedding and laser ablation [DE84-000301] 04 p0541 N84-13565
Research on nonsteady flow induction [AD-A133894] 05 p0680 N84-14468
Organized microscale structure of the windstorm of 12 May 1983 in Utrecht and vicinity [KNMI-TR-36] 05 p0709 N84-14647
Computational and experimental study of trailing vortices 06 p0779 N84-15103
An experimental investigation of the structure of a turbulent reattaching flow behind a backward-facing step 06 p0832 N84-15415
Eddy detection within turbulent shear flows 06 p0837 N84-15453
The bursting phenomenon in bounded shear flows 06 p0837 N84-15454
Improved turbulence models based on large eddy simulation of homogeneous, incompressible turbulent flows 06 p0845 N84-15514
A numerical investigation of the formation of secondary vortices in laboratory-simulated tornadoes 06 p0880 N84-15725
A comparison study of the energetics of standing and transient eddies between two general circulation models: The GLAS Climate Model and the NCAR Community Climate Model 06 p0880 N84-15726
Transonic noise generation by duct and profile flow [AD-A129367] 06 p0908 N84-15899
A numerical investigation of the multiple vortex phenomenon: Vortex number and structure as a function of swirl ratio 06 p0931 N84-16049
Gusts simulation for flight-mechanical investigations in wind tunnels 07 p0944 N84-16127
The linear vortex distribution using the alternative approach [NIAST-82/80] 07 p0945 N84-16133
Numerical simulation of stalling flows by an integral equation method 07 p0956 N84-16199
Technology Reports of the Kyushu University, vol. 56, no. 3, June 1983 [ISSN-0023-2718] 07 p0982 N84-16359
Sound radiation by vortex-body interaction 07 p0982 N84-16360
An investigation of tip-wall vortex cavitation in an axial-flow pump [AD-A134357] 07 p1002 N84-16496
A general field theory for vortex structure and interaction [AD-A134146] 07 p1033 N84-16705
Three-dimensional turbulent boundary layer on a body of revolution at incidence [AD-A135454] 08 p1158 N84-17539
Experimental blade vortex interaction noise characteristics of a utility helicopter at 1/4 scale [NASA-TM-84653] 08 p1227 N84-18018
Airfoil interaction with impinging vortex [NASA-TP-2273] 09 p1250 N84-18159
Transition to turbulence in plane channel flows [NASA-CR-172298] 09 p1313 N84-18577
Impulsively-started flow about rectangular cylinders [AD-A136029] 09 p1315 N84-18595
Effects of multiple cylinders on the formation of Von Karman vortex streets [AD-A136930] 10 p1492 N84-19758
Model equations describing unsteady fluid motion [DFVLR-MITT-83-17] 10 p1495 N84-19775
Comparison between vortex flowmeter and pressure flowmeters [PTB-ME-47] 10 p1499 N84-19800
A method for computing the leading-edge suction in a higher-order panel method [NASA-CR-3730] 11 p1600 N84-20479
Numerical studies of the deposition of material released from fixed and rotary wing aircraft 11 p1602 N84-20491
Experimental study of turbulent swirling flows 11 p1650 N84-20776
Accuracy of vortex methods [DE84-005714] 11 p1654 N84-20796
Application of the small body pressure transducer [AD-P002687] 11 p1659 N84-20822
On the horizontal and vertical variability of the vertical turbulent eddy diffusion coefficients in the mesosphere [AD-A137877] 11 p1687 N84-21002
Waves and circulation driven by oscillatory winds in an idealized ocean basin [AD-P002650] 11 p1689 N84-21015
Recent work and thoughts on eddy-mean flow interaction [AD-P002651] 11 p1689 N84-21016
Oceanic mesoscale variability and general circulation from satellite altimetry: A status report [AD-P002653] 11 p1689 N84-21018
Eddy: Mean flow interaction diagnostics [AD-P002654] 11 p1690 N84-21019
Evidence for the direct atmospheric forcing of mid-ocean eddies [AD-P002656] 11 p1690 N84-21021
The eddy field of the Central North Atlantic [AD-P002664] 11 p1691 N84-21029
Initial experiments on profile vortex interaction — helicopter noise [MPIS-6/1983] 12 p1766 N84-21520
Computational vortex flow aerodynamics [NLR-MP-83017-U] 12 p1766 N84-21522
Simulation of a cockpit-display concept for executing a wake-vortex avoidance procedure [NASA-TP-2300] 12 p1770 N84-21542
Turbulence structures associated with the bursting event [NASA-TM-85944] 12 p1815 N84-21831
On the role of the transient eddies in maintaining the seasonal mean circulation 12 p1855 N84-22096
Experimental investigation of the low NO/sub x vortex airblast annular combustor [NASA-TM-83615] 13 p1932 N84-22567
Film cooling on a gas turbine blade near the end wall [AD-A138794] 13 p1933 N84-22569
Vortex motion in a precombustion chamber with intersecting jets [AD-A139040] 13 p1956 N84-22717
Effect of rotation on thermal state of runner blade through effect on heat transfer on coolant side 13 p1970 N84-22787
Visualisation of the vortex dominated flow around a delta wing-body combination using a water tunnel [BAE-821/RES/6631] 13 p1988 N84-22904
Vortex generating flow passage design for increased film-cooling effectiveness and surface coverage — aircraft engine blade cooling [NASA-TM-83617] 13 p1989 N84-22909
Bellows flow-induced vibrations [NASA-TM-82556] 13 p1989 N84-22912
Fan noise reduction achieved by removing tip flow irregularities behind the rotor - forward arc test configurations [NASA-TM-83616] 13 p2040 N84-23235
Vortical flow exploration methods developed for the F1 wind tunnel 14 p2099 N84-23598
A flow visualisation study of tip vortex formation [ARL-AERO-NOTE-421] 14 p2100 N84-23603
The stability of inviscid vortex streets of finite cored vortices [AD-A139311] 14 p2145 N84-23855
Swirl at gas-intake inlet [AD-A139472] 14 p2146 N84-23861
An investigation into the nature and control of vortex flow round helicopter upsweep [BU-285] 15 p2255 N84-24544
A circulation meter for the measurement of discrete vortices [BU-300] 15 p2256 N84-24551
Experimental investigation of the turbulent large scale temporal flow in the wing-body junction [AD-A139636] 15 p2257 N84-24558
The effect of strakes on vortical flows applied to aircraft [AD-A139989] 15 p2257 N84-24560
Conical flows with leading edge vortices 15 p2333 N84-25013
Numeric and fluid dynamic representation of tornadic double vortex thunderstorms [NASA-CR-171023] 15 p2370 N84-25217
An investigation of aerodynamic characteristics of wings having vortex flow using different numerical codes [NASA-CR-173596] 16 p2438 N84-25639
Calculation of aerodynamic characteristics of wings with thickness and camber by a new method based on the modified vortex lattice method [TAE-493] 16 p2438 N84-25640
Direct simulations of chemically reacting turbulent mixing layers [NASA-CR-174640] 16 p2450 N84-25710
Numerical computation of vortical flows about wings 16 p2492 N84-25987
Theoretical and experimental investigation of coherent structure in the turbulent boundary layer [AD-A140517] 16 p2493 N84-25996
An empirical model for vortex-induced vibrations [PB84-161157] 16 p2493 N84-25998
Observation of Rayleigh-Taylor-Like structures in a laser-accelerated foil [AD-A140294] 16 p2556 N84-26399
A numerical analysis for blade tip loadings on a thick bladed hovering helicopter rotor 17 p2599 N84-26658
Vortex lifted stone ingestion: The influence of stone diameter [BAE-KRS-N-GEN-276] 17 p2603 N84-26676
Vortical-potential flow of ideal fluid along plane with depression 17 p2646 N84-26827
Large eddy interactions in curved wall boundary layers: Model and implications 17 p2666 N84-26998
Numerical simulation of shock/turbulent boundary layer interactions over 2-D compression corners 17 p2666 N84-27000
A numerical study of the 2- and 3-dimensional unsteady Navier-Stokes equations in velocity-vorticity variables using compact difference schemes [NASA-CR-172353] 17 p2667 N84-27004
Theoretical modelling of three-dimensional vortex flows in aerodynamics [AD-A134966] 17 p2667 N84-27007

Movement mechanism of solitary synoptic eddies
17 p2707 N84-27239
The importance of altimeter and scatterometer data for ocean prediction 17 p2720 N84-27316
Sampling strategies and four-dimensional assimilation of altimetric data for ocean monitoring and prediction
17 p2721 N84-27317
Effect of radial inflow on vortex intensification and its application to wind vortex generators
17 p2724 N84-27335
Conditions for two-cell structure in severe vortical storms
[AD-A138242] 17 p2734 N84-27381
An experimental and theoretical analysis of the aerodynamic characteristics of a biplane-winglet configuration
[NASA-TM-85815] 19 p2963 N84-28779
The Goertler vortex instability mechanism in three-dimensional boundary layers
[NASA-CR-172370] 19 p3021 N84-29158
Production version of the extended NASA-Langley vortex lattice FORTRAN computer program. Volume 2: Source code
[NASA-TM-83304] 19 p3073 N84-29500
Numerical analysis of the burst in the turbulent boundary layer, based on the three-dimensional ortex model
20 p3168 N84-30116
Numerical simulation of autorotation
20 p3168 N84-30118
Surface disturbances due to trailing vortices
[AD-A142693] 20 p3184 N84-30233
Motion of vortex pair between parallel walls
21 p3486 N84-32092
The structure of the vorticity field in turbulent channel flow. Part 1: Analysis of instantaneous fields and statistical correlations
[NASA-TM-86019] 22 p3593 N84-32753
A fast accurate algorithm for solving the steady 3-dimensional equations for inviscid rotational flow
23 p3746 N84-33745
Large structure in the far wakes of two-dimensional bluff bodies
[AD-A143642] 23 p3747 N84-33751
Bursts and pressure fluctuations in turbulent boundary layers
[AD-A143811] 23 p3747 N84-33754
Eddy studies during Marginal Ice Zone Experiment (MIZEX) 83 by ship and remote sensing observations
23 p3772 N84-33914
Space Shuttle AFRSI OMS pod environment test using model 81-0 test fixture in the Ames Research Center 9x7-foot supersonic wind tunnel (OS-314A/B/C)
[NASA-CR-167669] 24 p3860 N84-34464
Theory of vorticity generation by shock wave and flame interactions
[AD-A144432] 24 p3880 N84-34582
Large scale tropical heat sources and global atmospheric energy propagation associated with droughts in Northeast Brazil
[INPE-3227-PRE/578] 24 p3918 N84-34806

VORTICITY
Electrohydrodynamics 01 p0089 N84-10578
Computational vortex flow aerodynamics
03 p0324 N84-12117
Calculation of natural convection within a heated enclosure using the method of second moments
[DE84-001596] 04 p0535 N84-13517
The influence of convective activity on the vorticity budget
[NASA-CR-3752] 04 p0567 N84-13736
Relationships between thunderstorm mesoscale circulation and tornadogenesis 06 p0880 N84-15727
Development and perturbation analysis of model stochastic equations for global circulation
06 p0883 N84-15743
The Role of Eddies in the General Ocean Circulation: Proceedings of Aha Huliko's Hawaiian Winter Workshop
[AD-A137212] 11 p1689 N84-21014
Simulation of midlatitude variability
[AD-P002655] 11 p1690 N84-21020
On the mean dynamical balances of the Gulf Stream Recirculation Zone
[AD-P002661] 11 p1691 N84-21026
The impact of Gulf Stream rings upon the Slope Water
[AD-P002662] 11 p1691 N84-21027
Annual and interannual variability in the Kuroshio Current System
[AD-P002665] 11 p1691 N84-21030
Eddy heat flux in the North Pacific
[AD-P002666] 11 p1691 N84-21031
Some properties of transient phenomena in the extra-tropical region and their importance in the seasonal mean flow 12 p1859 N84-22112
Heat transfer and oil flow studies on a single-stage-to-orbit control-configured winged entry vehicle
[NASA-TM-85833] 20 p3133 N84-29897
Modified 5-point and 9-point schemes for the solution of the Vorticity- transport equation with cross derivatives
[AD-A142720] 20 p3284 N84-30851
Conservation laws of wave action and potential enstrophy for Rossby waves in a stratified atmosphere
[NASA-TM-86058] 21 p3442 N84-31836
Optimal measurement of ice-sheet deformation from surface-marker arrays
[NASA-CR-173877] 22 p3622 N84-32950
Topographic effects of the Alaskan stream on shelf currents
[PB84-205137] 22 p3628 N84-32988
Environment and receptivity 23 p3748 N84-33760
Theory of vorticity generation by shock wave and flame interactions
[AD-A144432] 24 p3880 N84-34582
Mesoscale ageostrophic circulations associated with baroclinic jet streaks 24 p3930 N84-34875

VORTICITY EQUATIONS
Horizontal energy propagation and barotropic instability in a quasi-linear model of the atmosphere
02 p0247 N84-11614
Barotropic studies of stationary extratropical anomalies in the troposphere 16 p2527 N84-26224
A numerical study of the 2- and 3-dimensional unsteady Navier-Stokes equations in velocity-vorticity variables using compact difference schemes
[NASA-CR-172353] 17 p2667 N84-27004
On the finite element approximation of the stream function-vorticity equations
[AD-A143506] 22 p3594 N84-32758

VOWELS
Clustering of the least squares lattice PARCOR (partial correlation) coefficients: A pattern-recognition approach to steady state synthetic vowell identification
[AD-A131503] 01 p0134 N84-10876
Determination of a subjects condition according to pitch of the vocal vowel 'A' 02 p0261 N84-11714

VOYAGER PROJECT
Telecommunications and data acquisition systems support for Voyager missions to Jupiter and Saturn, 1972-1981, prelaunch through Saturn encounter
[NASA-CR-174571] 02 p0183 N84-11186
Jupiter Data Analysis Program: Analysis of Voyager wideband plasma wave observations
[NASA-CR-174575] 03 p0465 N84-13058
JPL closeup
[NASA-CR-175324] 06 p0793 N84-15188
Voyager observations of Saturn's rings. 1: The eccentric rings at 1.29, 1.45, 1.95 and 227 Rs
06 p0937 N84-16087
Voyager observations of Jovian millisecond radio bursts
[NASA-TM-86052] 07 p1093 N84-17109
Vertical structure and convective dynamics of the equatorial region on Jupiter 11 p1758 N84-21473
Ongoing data reduction, theoretical studies and supporting research in magnetospheric physics
[NASA-CR-173419] 13 p2010 N84-23039
Photometry of icy satellites: How important is multiple scattering in diluting shadows?
13 p2073 N84-23438
Comparison of Hapke's photometric theory with Voyager observations of Europa, Enceladus, Rhea and Mimas
13 p2074 N84-23439
Voyager feature-fixed photometry of Iapetus
13 p2074 N84-23440
New models for landform evolution on Io
13 p2074 N84-23443
High-resolution color images of Io
13 p2075 N84-23446
Short time-scale surface changes on Io
13 p2075 N84-23447
Morphology of fresh craters on Ganymede and the origin of pedestal craters 13 p2078 N84-23466
Classification of volcanoes of the Kane Patera Quadrangle of Io: Proportions of lava flows and pyroclastic flows 13 p2080 N84-23477
Analysis of Voyager observations of ion and electron phase space densities in the magnetospheres of Jupiter and Saturn 16 p2580 N84-26548
The Z3 model of Saturns magnetic field and the Pioneer 11 vector helium magnetometer observations
[NASA-TM-86118] 17 p2776 N84-27623
Galilean satellites: Observations, ephemerides and theories 19 p3120 N84-29629
Observations of faint planetary satellites with a charge-coupled device 19 p3120 N84-29632
Voyager 1 and 2 atlas of six Saturnian satellites
[NASA-SP-474] 24 p3969 N84-35242
Voyager: Perils of advanced planning, 1960 - 1967
24 p3991 N84-35252

VOYAGER 1 SPACECRAFT
Temporal variations of the anomalous oxygen component 03 p0471 N84-13099
Voyager measurements of the energy spectrum, charge composition, and long term temporal variations of the anomalous components in 1977-1982
03 p0471 N84-13100
Transport and radiative processes in the Io plasma torus 05 p0749 N84-14916
Charging effects observed on Voyager 1 near Jupiter
08 p1116 N84-17260
A summary of whistlers observed by Voyager 1 at Jupiter
[NASA-CR-173415] 13 p2091 N84-23545
The puzzling dynamics of Saturn's F-ring
19 p3119 N84-29827

VOYAGER 2 SPACECRAFT
Temporal variations of the anomalous oxygen component 03 p0471 N84-13099
Voyager measurements of the energy spectrum, charge composition, and long term temporal variations of the anomalous components in 1977-1982
03 p0471 N84-13100
A radiometric Bode's Law: Predictions for Uranus
[NASA-TM-86074] 17 p2781 N84-27659
Geometrical relationships of Pioneer 11 to Uranus and Voyager 2 in 1985-86
[NASA-CR-173675] 22 p3539 N84-32406

VTOL
U VERTICAL TAKEOFF

VTOL AIRCRAFT
U VERTICAL TAKEOFF AIRCRAFT

VULCANIZATES
U VULCANIZED ELASTOMERS

VULCANIZED ELASTOMERS
Vulcanizate structure of isoprene chloroprene rubber combination
[CSIR-TRANS-1646] 01 p0048 N84-10312
Identification and characterization of elastomer vulcanizate materials using pyrolytic gas liquid phase chromatography
[AD-A134056] 05 p0658 N84-14325
Use of radiation curing for the production of coated fabrics, profiles, flocking — vulcanizing
[BMFT-FB-T-83-176] 07 p0980 N84-16350

VULCANIZING
Mutual solubility and properties of polyolefins and polyisoprene mixtures
[CSIR-TRANS-1647] 01 p0029 N84-10185
Rubber mixture softener: A product of thermal breakdown of substandard polysoprene
[CSIR-TRANS-1649] 01 p0048 N84-10311

VULNERABILITY
Modified QKLOOK program, change 1
[AD-A131507] 01 p0087 N84-10567
The strategic balance, the MX-system and deficiencies in the SALT Treaty
[FOA-C-10207-M3] 07 p0982 N84-16235
Laser effects and vulnerability program. Liquid propellant characterization
[AD-A134584] 07 p1010 N84-16550
Aircraft survivability 10 p1508 N84-19689
Software quality measurement for distributed systems. Volume 2: Guidebook for software quality measurement
[AD-A137956] 11 p1707 N84-21129
Information systems, security and privacy
[RAND/P-6930] 11 p1747 N84-21402
Ignitibility studies of LOVA propellants — low vulnerability gun propellants 13 p1950 N84-22678
Aircraft seat fire blocking layers. Effectiveness and benefits under various scenarios
[AD-A140796] 17 p2603 N84-26681
Engineering aids for the design of survivable defense communications transmission capability
[AD-A140755] 17 p2653 N84-26970
Evaluation of methodologies for estimating vulnerability to electromagnetic pulse effects
[AD-A144408] 24 p3894 N84-34663

W

W WINGS
U VARIABLE SWEEP WINGS

W-R STARS
U WOLF-RAYET STARS

WAFERS
Laser chemical etching of vias in GaAs
[AD-A131288] 02 p0226 N84-11479
Wafer-scale integration of systolic arrays
[AD-A132536] 04 p0525 N84-13450
Integrated circuit failure mechanism detected by IMMA
06 p0815 N84-15305
The concept of a solid state direct chamber
06 p0912 N84-15924

The use of diamond core saws in the electronics industry
[CSIR-TRANS-1702] 08 p1140 N84-17417
Deep diode arrays for X-ray detection
[NASA-CR-175178] 09 p1306 N84-18537
Dislocations in Syton polished InP
[AD-A138041] 12 p1913 N84-22483
Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-25670-4-1] 13 p1985 N84-22884
Process Research On Polycrystalline Silicon Material (PROPSM) — flat plate solar array project
[NASA-CR-173754] 18 p2869 N84-28213
Microcrystalline silicon growth for heterojunction solar cells
[NASA-CR-173750] 18 p2869 N84-28216
Overview of bulk silicon crystal growth — Czochralski and float zone systems 18 p2935 N84-28617
Characterization of silicon-gate CMOS/SOS integrated circuits processed with ion implantation
[NASA-CR-161986] 19 p3011 N84-29087
High density circuit technology, part 1
[NASA-CR-162006] 19 p3012 N84-29094
Three-dimensional circuit layouts
[AD-A143430] 22 p3586 N84-32713
Imaging X-ray spectrometer
[NASA-CASE-GSC-12682-1] 23 p3749 N84-33765
Epitaxial thinning process
[NASA-CASE-NPO-15786-1] 24 p3966 N84-35112
Process and apparatus for growing a crystal ribbon
[NASA-CASE-NPO-15629-1] 24 p3966 N84-35113

WAGE SURVEYS
Research salaries
[INPE-2971-NTE/209] 23 p3832 N84-34307

WAKEFULNESS
Symposium on mathematical modeling of circadian systems
[AD-A133636] 05 p0713 N84-14673
Sleep and wakefulness handbook for flight medical officers
[AGARD-AG-270(FR)] 06 p0891 N84-15788
Variations in states of alertness during continuous operations at the control post level 11 p1697 N84-21068
The effects of sleep loss and sustained mental work: Implications for command and control performance 11 p1697 N84-21069
Some issues in research on effects of sustained work and sleep loss on performance 11 p1697 N84-21071

WAKES
NT AIRCRAFT WAKES
NT HELICOPTER WAKES
NT NEAR WAKES
NT PROPELLER SLIPSTREAMS
NT SLIPSTREAMS
NT TURBULENT WAKES
Experimental measurements of wake characteristics of low aspect-ratio delta and flapped-plate planforms
[AD-A130398] 01 p0004 N84-10026
Random eddies in wakes and mixing layers — wind tunnel tests 03 p0429 N84-12813
Analytical model of rotor wake aerodynamics in ground effect
[NASA-CR-166533] 04 p0480 N84-13157
Wake characteristics and interactions of the Canard/wing lifting surface configuration of the X-29 forward-swept wing flight demonstrator
[AD-A133188] 06 p0783 N84-15126
Contributions to satellite sheath and wake modeling 06 p1117 N84-17266
Three-dimensional turbulent boundary layer on a body of revolution at incidence
[AD-A135454] 06 p1158 N84-17539
Laser diagnostic development and measurement and modeling of turbulent flowfields of jets and wakes. Part 1: Two-dimensional laser Doppler anemometer studies of isothermal flowfield in a ducted centerbody combustor
[AD-A134691] 06 p1158 N84-17542
Laser diagnostic development and measurement and modeling of turbulent flowfields of jets and wakes. Part 2: Numerical predictions of isothermal flowfields in a ducted centerbody combustor
[AD-A134692] 06 p1159 N84-17543
Laser diagnostic development and measurement and modeling of turbulent flowfields of jets and wakes. Part 3: The development of a 2-channel CW Time-Resolved Laser Raman Spectroscopy (TILaRS) system for measurements in gas flowfields
[AD-A134693] 06 p1159 N84-17544
An investigation of the effects of discrete wing tip jets on wake vortex roll up
[AD-A135872] 09 p1252 N84-18173
Effect of suction on the wake structure of a three-dimensional turret
[AD-A135897] 09 p1252 N84-18174
Stability of compressible wake and jet flows
[AD-A136541] 09 p1314 N84-18589
Ground effect on a rotor wake
[ISBN-0-902937-93-6] 11 p1601 N84-20484
Simulation of a cockpit-display concept for executing a wake-vortex avoidance procedure
[NASA-TP-2300] 12 p1770 N84-21542
The effect of strakes on vortical flows applied to aircraft
[AD-A139989] 15 p2257 N84-24560
Numerical computation of vortical flows about wings 16 p2492 N84-25987
Simulation of vehicle aerodynamics by means of a general-purpose computer program
[CFD/84/4] 19 p2960 N84-28759
Representation of potential flow about axisymmetric bodies with discrete singularities
[AD-A143526] 22 p3594 N84-32760
Large HAWT (Horizontal-Axis Wind Turbine) wake measurement and analysis
[DE84-013269] 22 p3596 N84-32772

WALKING
The energy cost and heart rate response of trained and untrained subjects walking and running in shoes and boots
[AD-A131420] 01 p0113 N84-10735
Dynamically stable legged locomotion
[AD-A136644] 09 p1363 N84-18905
Cognitive performance change during a 6-hour hike at low temperature in simulated rain, at controlled walking rates
[AD-A138358] 13 p2020 N84-23100
Evaluation of energy characteristics of bipedal walking and running by model analysis 17 p2649 N84-26941
Treatment of walking as controllable self-excited oscillations 17 p2649 N84-26942
An experimental study of an ultra-mobile vehicle for off-road transportation
[AD-A141323] 18 p2849 N84-28091
Walking erect as a factor in development of arterial hypertension in primates 20 p3253 N84-30645
Modeling, control and simulation of three-dimensional robotic systems with application to biped locomotion 21 p3460 N84-31943

WALKING MACHINES
An experimental study of an ultra-mobile vehicle for off-road transportation
[AD-A131449] 02 p0303 N84-11991
Dynamically stable legged locomotion
[AD-A136644] 09 p1383 N84-18905
An experimental study of an ultra-mobile vehicle for off-road transportation
[AD-A141323] 18 p2849 N84-28091
The design of manually operated controls for a six-degree-of-freedom groundborne walking vehicle: Control strategies and stereotypes
[AD-P003273] 18 p2907 N84-28438

WALL FLOW
A new method of estimating wind tunnel wall interference in the unsteady two-dimensional flow
[AD-A130475] 01 p0004 N84-10029
Significance of a wall effect in enclosures with growing fires
[PB83-235671] 02 p0192 N84-11247
Effects of wall interference on unsteady transonic flows 06 p0779 N84-15105
Three-dimensional effects on airfoils
[NASA-TM-77025] 06 p0781 N84-15118
Asymmetric turbulent flows 06 p0837 N84-15451
End-wall boundary layer calculations in multistage axial compressors 07 p0957 N84-16205
Annulus wall boundary layer development in a compressor stage, including the effects of tip clearance 07 p0957 N84-16207
Shock structure near a wall in pure inert gas and in binary inert gas mixtures 07 p1005 N84-16517
Use of adaptive walls in 2D tests
[NASA-TM-77380] 10 p1432 N84-19359
A study of the coherent structures in the viscous wall region of a turbulent flow
[AD-A137875] 11 p1652 N84-20788
Turbulent flow over small amplitude solid waves
[AD-A137876] 11 p1653 N84-20789
Aerodynamic sound generation by turbulent boundary layer flow along solid and compliant walls
[MPIS-116/1983] 13 p2040 N84-23239
A review and an update of the FDP Specialists Meeting (London) on Wall Interference in Wind Tunnels 14 p2095 N84-23570
Scaling and modeling of three-dimensional, end-wall, turbulent boundary layers
[NASA-CR-3792] 16 p2485 N84-25941
Turbulent Prandtl number distribution within the constant stress/heat-flux region of a near-wall flow
[SME-8401] 16 p2486 N84-25945
Theoretical and experimental investigation of coherent structure in the turbulent boundary layer
[AD-A140517] 16 p2493 N84-25996
Computation of imaginary-side pressure distributions over the flexible walls of the test section insert for the 0.3-M transonic cryogenic tunnel
[NASA-CR-172363] 18 p2785 N84-27678
Secondary flows and endwall boundary layers in axial turbomachines — conferences
[VKI-LS-1984-05] 19 p3022 N84-29162
Annulus endwall boundary layer theory — turbomachinery 19 p3023 N84-29167
Wall pressure signature wind-tunnel wall-constraint correction methods
[BAE-ARG-188] 20 p3132 N84-29887
Similarity criteria for spectra of pressure fluctuations in turbulent boundary layer at wall 21 p3480 N84-32059

WALL JETS
Investigation of parameters influencing the deflection of a thick wall jet by a thin wall jet coflowing over a rounded corner
[AD-A142773] 21 p3325 N84-31099

WALL PRESSURE
Turbulent wall pressure simulation
[AD-A132297] 04 p0533 N84-13507
Use of adaptive walls in 2D tests
[NASA-TM-77380] 10 p1432 N84-19359
A universal 3-dimensional wall pressure correction method for closed rectangular subsonic wind tunnel test sections (displacement, downwash, streamline curvature)
[ESA-TT-800] 13 p1935 N84-22588
The T2 cryogenic wind tunnel with self-adaptable walls at ONERA/CERT 14 p2095 N84-23567
Measurements of the low wavenumber wall pressure spectral density during transition on a flat plate
[AD-A140753] 17 p2668 N84-27013
Wall pressure signature wind-tunnel wall-constraint correction methods
[BAE-ARG-188] 20 p3132 N84-29887
The influence of a wind tunnel on helicopter rotational noise: Formulation of analysis
[NASA-TM-85982] 20 p3290 N84-30887

WALL TEMPERATURE
Significance of a wall effect in enclosures with growing fires
[PB83-235671] 02 p0192 N84-11247
Laminarization of a boundary layer in a supersonic nozzle by cooling of the surface
[NASA-TM-77341] 05 p0626 N84-14119
The T2 cryogenic wind tunnel with self-adaptable walls at ONERA/CERT 14 p2095 N84-23567
Wall effects on combustion in an engine
[AD-A141418] 19 p2966 N84-28796

WALLS
NT POROUS WALLS
NT THICK WALLS
NT THIN WALLS
NT TROMBE WALLS
NT WIND TUNNEL WALLS
Thick deposits and overlays for fusion-reactor applications
[DE83-014626] 02 p0293 N84-11919
Load deflection characteristics of inflated structures
[NASA-CR-174585] 03 p0311 N84-12026
Chemical erosion of first-wall materials by atomic hydrogen at high temperatures
[DE83-017161] 03 p0450 N84-12962
Investigation of the wall pressure, wall shear stress and velocity fields associated with a turbulent spot in a laminar boundary layer 04 p0531 N84-13488
Engineering aspects of disruption current decay
[DE84-002995] 07 p1076 N84-16998
Calculations of wall fire spread in an enclosure
[PB84-123165] 09 p1297 N84-18481
Analysis of three-dimensional viscous internal flows
[AD-A135762] 09 p1315 N84-18592
The hydrodynamic stability of a supersonic laminar boundary layer over a rough wall
[AD-A137056] 10 p1422 N84-19299
A study of the coherent structures in the viscous wall region of a turbulent flow
[AD-A137875] 11 p1652 N84-20788
Turbulent flow over small amplitude solid waves
[AD-A137876] 11 p1653 N84-20789
Re-design and fabrication of titanium multi-wall Thermal Protection System (TPS) test panels
[NASA-CR-172247] 12 p1780 N84-21610
Turbulent boundary layer thermochemical attack on coated walls
[DE84-005892] 12 p1817 N84-21843
Procedure for wall temperature measurement in a metal vapor laser 13 p1968 N84-22777
A tectonic geomorphological classification of the walls of Valles Marineris 13 p2087 N84-23518

Computer applications to geotechnical engineering
[AD-A139271] 14 p2134 N84-23789
Microwave detection of surface and volume moisture in building walls and related structures
[CISE-2111] 16 p2481 N84-25912
Mixing-length formulations for turbulent boundary layers over arbitrarily rough surfaces
[AD-A140560] 17 p2667 N84-27009
Studies of heat transfer in complex internal flows
[AD-A140804] 17 p2668 N84-27014
Possible interpretation of discrepancy in results of absolute gravity determination at Sevres
17 p2703 N84-27215
The Goertler vortex instability mechanism in three-dimensional boundary layers
[NASA-CR-172370] 19 p3021 N84-29158
Modeling the interaction of high power ion or electron beams with solid target materials
[DE84-009126] 20 p3296 N84-30931
Raman spectroscopy measurements of flame quenching in a duct-type crevice, appendix B
[DE84-009328] 21 p3362 N84-31329
Response of a plaster-wood room subjected to simulated sonic booms
[UTIAS-276] 21 p3421 N84-31701
Considerations on deformable ability and ultimate strength of aseismic walls. Part 2: About the derivation of a formula on ultimate shearing stress of walls and its applied verification for some experimental results
21 p3477 N84-32042
Study of double wall panels for use in propeller driven aircraft
[NASA-CR-173847] 21 p3490 N84-32116
Prediction of light aircraft interior sound pressure level using the room equation
[NASA-CR-173840] 21 p3490 N84-32117
Composition alteration of stratospheric air due to sampling through a flow tube: Environmental research papers
[AD-A143319] 22 p3623 N84-32959
Negative ion formation due to hydrogen plasma surface interaction
[DE84-012259] 22 p3659 N84-33192
Unsteady heat transfer during the interaction of a laminar flame with a cold wall 23 p3745 N84-33739
Film cooling on a convex wall: Heat transfer and hydrodynamic measurements for full and partial coverage 23 p3745 N84-33741
Visible-light imaging MHD studies of the edge plasma in the JIPP-T-IIU Tokamak
[IPPJ-683] 23 p3827 N84-34272
Abnormal energy deposition on the wall through plasma disruptions
[IPPJ-684] 23 p3827 N84-34273
A new method of evaluating the side wall interference effect on airfoil angle of attack by suction from the side walls
[NASA-TM-77722] 24 p3852 N84-34432
Theory of the interface between a classical plasma and a hard wall
[DE84-701221] 24 p3966 N84-35111

WALSH FUNCTION
Robust estimation based on Walsh averages for the general linear model
[AD-A136187] 09 p1378 N84-19004

WAR GAMES
An analysis of the satellite kinematics model in the Naval Warfare Gaming System
[AD-A134039] 05 p0643 N84-14229
Time lapse simulation of interrelated weather conditions
[AD-A133999] 05 p0708 N84-14639
Near-optimal finite solutions to the 3 and 4 step discrete evasion games
[AD-A136811] 10 p1574 N84-20314
Doing C2 (Command Control) experiments using war games
[AD-P002675] 13 p1977 N84-22836
Lanchester's equations and game theory
[AD-P002877] 13 p1978 N84-22838
Simulator design features for air-to-ground bombing. Part 1: Performance experiment 1
[AD-A141190] 18 p2798 N84-27753
Computer graphics enhancement for COMEL (communications electronics)
[AD-A141920] 20 p3269 N84-30741
Rand's experience in applying artificial intelligence techniques to strategic-level military-political war gaming
[P-6977] 22 p3649 N84-33137

WARFARE
NT ANTISUBMARINE WARFARE
NT CHEMICAL WARFARE
NT COMBAT
NT ELECTRONIC WARFARE
NT NUCLEAR WARFARE

A model to investigate losses and exchange ratios in large-scale air-to-air engagements
[AD-A131410] 02 p0178 N84-11166
Meteorological sensors for battlefield weather support
[AD-A132623] 05 p0709 N84-14643
Risk models for risk distance prediction during release of toxic industrial chemicals caused by acts of war
[FOA-C-40185-C2(H2)] 08 p1183 N84-17707
Studies to improve environmental assessments of sonic booms produced during air combat maneuvering
[AD-A138254] 12 p1899 N84-22365
A formulation and analysis of combat games
[NASA-TM-85927] 13 p1935 N84-22585
Operation of communications satellite systems during crisis and conflict
[AD-P002150] 14 p2138 N84-23815
Notes on a theory of terrorism
[AD-P003242] 18 p2903 N84-28409
Some aerodynamic discoveries and related NACA/NASA research programs following World War 2
[NASA-TM-86258] 20 p3125 N84-29847

WARHEADS
Speeding up the help hydrodynamic code
[MRL-R-925] 16 p2543 N84-26321
Warheads for SAM systems 21 p3351 N84-31257

WARMING
U HEATING

WARNING DEVICES
U WARNING SYSTEMS

WARNING SIGNALS
U WARNING SYSTEMS

WARNING SYSTEMS
NT EARLY WARNING SYSTEMS
Advanced Ultra-Violet (UV) aircraft fire detection system. Volume 3: Ground Support Equipment (GSE) for system check-out
[AD-A130298] 01 p0006 N84-10039
Optimum filtering required for broadband detection of Gaussian processes
[AD-A133721] 05 p0735 N84-14823
Performance characteristics of passive coherence estimators
[AD-A133209] 06 p0829 N84-15396
Tropical cyclone operational plan for the Southwest Indian Ocean
[WMO-618] 06 p0882 N84-15741
Telemetered seismic network--'System 768'
[AD-A133143] 07 p0963 N84-16245
Accuracy and speed of response to different voice types in a cockpit voice warning system
[AD-A135595] 09 p1301 N84-18503
Centralized warning systems for the new generation of airliners
[VTH-LR-373] 10 p1424 N84-19315
The development of an airborne instrumentation computer system for flight test
[NASA-TM-86036] 11 p1607 N84-20521
An experimental comparison of operator responses to voice and tone system warnings
[BAE-BT-12051] 13 p2023 N84-23117
General aviation TCAS (Traffic Alert and Collision Avoidance System) avionics (GATCAS)
[AD-A139145] 14 p2104 N84-23618
Annual data and verification tabulation Atlantic tropical cyclones, 1983
[PB84-161330] 14 p2181 N84-24067
Public response to hurricane probability forecasts
[PB84-158658] 14 p2182 N84-24077
I and W (Indications and Warning) data base management systems analysis
[AD-A139339] 14 p2247 N84-24497
Minimum operational performance standards for traffic alert and collision avoidance system (TCAS) airborne equipment, volume 1
[RTCA/DO-185-VOL-1] 16 p2445 N84-25685
Fire detection using the NOAA (National Oceanic and Atmospheric Administration)-series satellites
[PB84-176890] 17 p2722 N84-27324
Air Force Technical Objective Document (TOD) C(3)I (command, control, communications and intelligence) - fiscal year 1985
[AD-A141276] 18 p2829 N84-27961
Enhanced safety by means of clear information on hazards and operational disturbances by a plain language communication device
[BMFT-FB-HA-84-010] 18 p2830 N84-27971
Tsunami warning system discussed at seismologists' meeting 18 p2859 N84-28154
System safety in aircraft acquisition
[AD-A141492] 19 p2960 N84-28763
A 60 GHz pulse radar for detection of high voltage power lines
[BMFT-FB-W-84-013] 19 p3009 N84-29077
Selected worldwide marine weather broadcasts
[PB84-192855] 21 p3450 N84-31894

WARN: A warning formatter
[PB84-204551] 21 p3467 N84-31985
Quantitative determination of gaseous air pollutants by semiconducting sensors
[BMFT-FB-T-84-113] 23 p3793 N84-34058
The development of an airborne instrumentation computer system for flight test 24 p3851 N84-34421

WASHERS (CLEANERS)
Hygienic microbiological/virological examination of an airwasher concerning the emission of airborne microorganisms
[BMFT-FB-T-83-130] 02 p0265 N84-11742

WASHERS (SPACERS)
Constant force friction damper
[NASA-CASE-MSC-20505-1] 13 p1939 N84-22611

WASHING
NT HOUSEKEEPING (SPACECRAFT)
Advanced cleaning by mass finishing
[DE84-004850] 10 p1472 N84-19612

WASHINGTON
Hydroacoustics research in Seattle, Washington, 1967 - 1981. An annotated bibliography
[PB83-220483] 01 p0111 N84-10722
The 19 March 1982 eruption and lahar at Mount Saint Helens: Implications for Martian outflow channels?
13 p2063 N84-23495
Drainage evolution in the debris avalanche deposits near Mount Saint Helens, Washington
13 p2063 N84-23496
Planetary geomorphology field studies: Washington and Alaska 13 p2084 N84-23501
The Corfu landslide: Analog to giant landslides on Mars 13 p2066 N84-23513
Preparation of residual gravity maps for the southern Cascade Mountains, Washington using Fourier analysis
[DE84-012546] 19 p3055 N84-29384
Targeting geothermal exploration sites in the Mount St. Helens area using solid mercury surveys
[DE84-012547] 20 p3229 N84-30519
Geological and geothermal investigation of the lower Wind River valley southwestern Washington Cascade Range
[DE84-012545] 21 p3431 N84-31771
Low temperature geothermal resource evaluation of the Moses Lake-Ritzville-Connell area, Washington
[DE84-012505] 21 p3432 N84-31773
Lower tertiary biostratigraphy and paleoecology of the Quilcene-Discovery Bay area, northeast Olympic Peninsula, Washington 22 p3621 N84-32943
Summary of geothermal exploration activity in the State of Washington from 1978 - 1983
[DE84-014883] 23 p3784 N84-33999

WASHOUT (RADIOACTIVITY)
U FALLOUT

WASPALOY
The role of cobalt on the creep of Waspaloy
[NASA-CR-174628] 10 p1458 N84-19523
The cyclic behaviour of a powder Ni-base superalloy --- aircraft engines
[PNR-90182] 13 p1961 N84-22743

WASTE DISPOSAL
NT HAZARDOUS MATERIAL DISPOSAL (IN SPACE)
Low-level radioactive waste disposal in the oceans
[DE83-013367] 01 p0145 N84-10956
Absorbent product and articles made therefrom
[NASA-CASE-MSC-18223-2] 02 p0269 N84-11758
Advanced technologies for the recovery, disposal, and reuse of carbon dioxide for atmospheric control
[DE83-016371] 03 p0347 N84-12256
An operational remote sensing methodology for the detection, inventory and environmental monitoring of waste disposal sites 03 p0398 N84-12601
Operational utilization of remote sensing in a study of the impact of disposal of urban waste at sea
03 p0400 N84-12611
Preparation of a design study for the construction of a 2 million tons/annum commercial scale hydrogenation plant
[BMFT-FB-T-83-135] 03 p0405 N84-12652
Ecological Research Division marine research program
[DE83-017880] 04 p0560 N84-13691
Mobility of organic complexes of nickel and cobalt in soils
[DE83-017897] 04 p0564 N84-13720
Atmospheric emergencies: Existing capabilities and future needs
[PB83-250779] 05 p0701 N84-14602
Geologic disposal of radioactive waste, 1983
[DE84-002890] 07 p1074 N84-16982
An analysis of concepts for controlling atmospheric carbon dioxide
[DE84-004203] 10 p1532 N84-20033
Benthic boundary layer: IOS observational programme
[IOS-163] 15 p2372 N84-25232

Interpretative analysis of surficial sediments as an aid in transport studies of dredged materials Cape Canaveral, Florida
[AD-A140759] 17 p2724 N84-27339
Monitored retrievable storage program. Status and plans for meeting NWPA requirements
[DE84-006680] 18 p2931 N84-28585
Considerations on the dimensioning of decay tanks for liquid radioactive wastes (basic methods and examples)
[OEFZS-4249] 18 p2931 N84-28586
Role of trench caps in the shallow land burial of low level wastes
[DE84-011824] 20 p3298 N84-30944
Ambient temperature testing of the G-tunnel heated block
[DE84-009927] 20 p3298 N84-30945
A study of research needs and priorities in radioactive waste management
[DE84-009045] 20 p3298 N84-30946
King's Trough Flank: Geological and geophysical investigations of its suitability for high-level radioactive waste disposal
[IOS-166] 20 p3299 N84-30950
Geology hydrology and mineral resources of crystaline rock areas of Northeastern US
[DE84-013671] 21 p3432 N84-31774
Geochemistry of oil shale leachates and interaction with geologic substrates, Piceance Creek Basin, Colorado
21 p3440 N84-31825
Environmental Research Laboratories publication abstracts, FY 1983
[PB84-189323] 21 p3450 N84-31892
Data base management system of the National Low-Level Radioactive Waste Management Program
[DE84-012789] 21 p3519 N84-32291
Mechanical seal program
[DE84-012421] 22 p3605 N84-32838
Geology, hydrology, and mineral resources of crystalline rock areas of the northeastern United States
[DE84-013672] 22 p3614 N84-32901
Lidar observations of the plumes of incineration ships
23 p3780 N84-33967
Interpretations of magnetic anomalies at a potential repository site located in the Yucca Mountain area, Nevada test site
[DE84-013723] 23 p3798 N84-34085
A guide for disposition of radioactive material sources
[DOE/EP-0088] 23 p3824 N84-34251

WASTE ENERGY UTILIZATION
Open-cycle vapor compression heat pump
[PB83-228429] 01 p0059 N84-10384
Preliminary operating assessment advanced Heat Recovery Incinerator (HRI). Site One: O'Connor Combustor Corporation
[AD-A131254] 01 p0103 N84-10667
Performance test results of an absorption heat pump which is designed to utilize low-temperature 600C (1400F) industrial waste heat
[DE83-017194] 04 p0537 N84-13533
LaNi5 hydride cryogenic refrigerator test results
06 p0821 N84-15350
Cycle of waste heat energy transformation — industrial waste heat
[BMFT-FB-T-83-173] 07 p1026 N84-16652
Biothermal conversion of biomass and wastes to methane
[DE84-006052] 11 p1675 N84-20931
Thermal energy recovery in gas turbine engine test cells
[AD-A139457] 14 p2172 N84-24009
Develop and test fuel cell powered on-site integrated total energy systems
[NASA-CR-174714] 17 p2723 N84-27329
Engineering research on positive displacement gas expanders, phase 1
[DE84-006977] 20 p3198 N84-30310
Waste heat recovery from adiabatic diesel engines by exhaust-driven Brayton cycles
[NASA-CR-168257] 21 p3521 N84-32307
High temperature metallic recuperator
[PB84-207869] 22 p3564 N84-32575
Steam bottoming cycle for an adiabatic diesel engine
[NASA-CR-168255] 22 p3676 N84-33304
Compressed air production with waste heat utilization in industry
23 p3727 N84-33619
Increase of the electric power characteristic number in industrial power stations. Adaptation of Power-Heat Coupling (PHC) to a new consumption structure
23 p3791 N84-34047

WASTE HEAT
Performance test results of an absorption heat pump which is designed to utilize low-temperature 600C (1400F) industrial waste heat
[DE83-017194] 04 p0537 N84-13533
Thermal control system — removing waste heat from industrial process spacecraft
[NASA-CASE-GSC-12771-1] 05 p0678 N84-14461
Available energy method for evaluating thermodynamic performance of heat pump systems
[DE84-005188] 10 p1494 N84-19766
Comparison of field performance of a high efficiency heat pump with and without a desuperheater water heater
[DE84-005816] 11 p1653 N84-20795
Engineering research on positive displacement gas expanders, phase 1
[DE84-006977] 20 p3198 N84-30310
Survey and assessment of heat of reaction type chemical heat pumps
[DE84-010968] 21 p3401 N84-31576
Performance test results of a lithium bromide-water absorption heat pump that uses low-temperature (60 deg C(140 deg F)) waste heat
[DE84-013129] 21 p3403 N84-31586
Waste heat recovery from adiabatic diesel engines by exhaust-driven Brayton cycles
[NASA-CR-168257] 21 p3521 N84-32307
Steam bottoming cycle for an adiabatic diesel engine
[NASA-CR-168255] 22 p3676 N84-33304

WASTE TREATMENT
NT SEWAGE TREATMENT
Supercritical fluid regeneration of adsorbents
[PB83-207597] 01 p0058 N84-10377
Composition and analysis of a model waste for a CELSS (Controlled Ecological Life Support System)
[NASA-TM-84368] 02 p0269 N84-11760
Vitrification of highly-loaded SDS zeolites
[DE83-006196] 02 p0292 N84-11915
Research activities in materials and molecular research
[DE83-015005] 03 p0347 N84-12255
Technology Reports of the Kyushu University, vol. 56, no. 3, June 1983
[ISSN-0023-2718] 07 p0982 N84-16359
Kinetic model on substrate-metabolic system and growth of microorganisms in activated sludge
07 p0982 N84-16362
Waste water treatment with the aid of the addition of activated carbon into the aeration station and reactivation of the spent carbon
[BMFT-FB-T-83-186] 07 p1028 N84-16661
Development of a prototype experiment for treating CELSS and PCELSS wastes to produce nutrients for plant growth
[NASA-CR-173167] 09 p1277 N84-18341
Evaluation of process systems for effective management of aluminum finishing wastewaters and sludges
[PB84-170661] 16 p2520 N84-26178
Agricultural waste water reverse osmosis pretreatment
[PB84-153543] 17 p2725 N84-27347
Evaluation of alkaline chemical addition and organic loading schemes for enhancement of secondary treatment and ancillary nutrient removal
[AD-A141178] 18 p2877 N84-28270
Operation and maintenance of selected ozone and ultraviolet disinfection systems
[PB84-180124] 20 p3265 N84-30719
Workshop on Systems Analysis
[PB84-194661] 22 p3650 N84-33138

WASTE UTILIZATION
Gas-turbine demonstration of pyrolysis-derived fuels
[DE83-013610] 01 p0053 N84-10342
Biorefining of selected industrial wastes to liquid fuels and organic chemicals
[DE83-013910] 01 p0054 N84-10346
Gasogen for automobile use
[DE84-000712] 06 p0813 N84-15291
Hydrolysis of plastic wastes with the aim of recovering and reprocessing the starting components (recycling)
[BMFT-FB-T-83-199] 08 p1126 N84-17322
Comparison of field performance of a high efficiency heat pump with and without a desuperheater water heater
[DE84-005816] 11 p1653 N84-20795
Utilization of zirconium wastes in Al-special alloys
[BMFT-FB-T-84-020] 16 p2465 N84-25802
Detinning of tin plate scrap
[BMFT-FB-T-84-045] 16 p2466 N84-25805
Determination of thermal-degradation rates of some candidate Rankine-cycle organic working fluids for conversion of industrial waste heat into power
[DE84-009585] 20 p3197 N84-30304
Producer gas: Another fuel for motor transport
[DE84-901066] 21 p3375 N84-31416
Performance test results of a lithium bromide-water absorption heat pump that uses low-temperature (60 deg C(140 deg F)) waste heat
[DE84-013129] 21 p3403 N84-31586
Microprocessor enhanced real time manual control of an industrial robot
[DE84-011805] 21 p3413 N84-31645
New developments in materials recycling by the US Bureau of Mines
23 p3704 N84-33480

WASTE WATER
Supercritical fluid regeneration of adsorbents
[PB83-207597] 01 p0058 N84-10377
Assessment of the BCL and ORL chemical heat pumps
[DE83-011450] 01 p0080 N84-10518
Method for treating wastewater using microorganisms and vascular aquatic plants
[NASA-CASE-NSTL-10] 03 p0406 N84-12654
Process, product, and waste-stream monitoring with fiber optics
[DE83-001102] 03 p0441 N84-12899
Kinetic model on substrate-metabolic system and growth of microorganisms in activated sludge
07 p0982 N84-16362
Waste water treatment with the aid of the addition of activated carbon into the aeration station and reactivation of the spent carbon
[BMFT-FB-T-83-186] 07 p1028 N84-16661
Pilot system for the purification of rinse water and for the recuperation of metals in electroplating companies. Pilot system metal recovery from waste water (RMA)
[BMFT-FB-T-83-208] 08 p1126 N84-17323
Development of a prototype experiment for treating CELSS and PCELSS wastes to produce nutrients for plant growth
[NASA-CR-173167] 09 p1277 N84-18341
Chemistry and application of ozone and ozone/UV light for water reuse-2
[PB84-140557] 11 p1630 N84-20664
Navy electroplating pollution control technology assessment manual
[AD-A140336] 16 p2477 N84-25879
Evaluation of process systems for effective management of aluminum finishing wastewaters and sludges
[PB84-170661] 16 p2520 N84-26178
Agricultural waste water reverse osmosis pretreatment
[PB84-153543] 17 p2725 N84-27347
Nitroguanidine wastewater pollution control technology: Phase 2 wastewater characterization and analytical methods development for organics
[AD-A141176] 18 p2811 N84-27844
Evaluation of alkaline chemical addition and organic loading schemes for enhancement of secondary treatment and ancillary nutrient removal
[AD-A141178] 18 p2877 N84-28270
Operation and maintenance of selected ozone and ultraviolet disinfection systems
[PB84-180124] 20 p3265 N84-30719
The use of aquatic plants to purify waste water in recreational waters
[REPT-226] 21 p3437 N84-31805
Construction and evaluation of a flow test stand
[PB84-201581] 22 p3615 N84-32906

WASTES
NT FECES
NT HUMAN WASTES
NT INDUSTRIAL WASTES
NT LIQUID WASTES
NT RADIOACTIVE WASTES
NT SEWAGE
NT SOLID WASTES
NT URINE
NT WASTE WATER
Measures for materials conservation in aero-engine construction
23 p3702 N84-33468

WATCHES
U CLOCKS

WATER
NT COASTAL WATER
NT COLD WATER
NT FRESH WATER
NT GROUND WATER
NT INLAND WATERS
NT NEARSHORE WATER
NT POTABLE WATER
NT SEA WATER
NT SHALLOW WATER
NT SURFACE WATER
NT WASTE WATER
Effect of low-proof fuel alcohol on crankcase oil dilution in an Otto-cycle engine
[DE83-016425] 01 p0091 N84-10594
Environmental crack-growth-measurement techniques
[DE83-900734] 01 p0097 N84-10630
The measurement of the diffusive motion of protons in biological systems
[AD-A129276] 01 p0142 N84-10930
Investigation of water rotor turbofans for Cruise Missile engines, volume 2
[AD-A131168] 02 p0180 N84-11173

Catalysed low-temperature production of methane from water and graphite
[DE83-012474] 02 p0203 N84-11325
Immobilized chloroplast-ferredoxin-hydrogenase system for the simultaneous photoproduction of hydrogen and oxygen
[DE83-015703] 02 p0205 N84-11333
An analysis of the annual temperature wave propagating through an alluvial soil
[DEL83-014883] 02 p0219 N84-11434
Copernicus observational searches for OH and H2O in diffuse clouds
[NASA-CR-170601] 02 p0305 N84-12004
Geomorphic studies of Mars 03 p0455 N84-13063
Dissociative ionization of liquid water induced by vibrational overtone excitation
[DE83-017739] 04 p0495 N84-13251
Thermodynamic surface for water: The formulation and computer programs
[PB83-249789] 04 p0496 N84-13256
The effect of water on the dielectric performance of a cable
[BLL-OA-TRANS-2634-(6196.3)] 04 p0524 N84-13447
Development of quantitative infrared analysis for monitoring water and emulsifying agents in fire-resistant microemulsion diesel fuels
[AD-A133242] 06 p0812 N84-15286
Raman spectroscopy of shocked water
[DE84-002468] 07 p0972 N84-16295
Effects of water on the cathode passivation by lithium dithionite in the Li/SO2 battery
[DE84-003103] 07 p0998 N84-16473
German/Indian cooperation program for solar powered water pumps, phase 1
[BMFT-FB-T-83-171] 07 p1026 N84-16651
FeO and H-2O and the homogeneous accretion of the earth
[NASA-CR-173242] 07 p1028 N84-16664
Electro-optical transmission and liquid water content of fogs and clouds
[AD-A134307] 07 p1039 N84-16738
Species-specific densities of states of ga and as in the chemisorption of H2O on GaAs(110)
[AD-A134344] 07 p1060 N84-17022
Hydration of (BETA)-prime-prime-alumina
[DE83-015896] 07 p1083 N84-17041
Comparison of photon stimulated dissociation of gas phase, solid and chemisorbed water
[AD-A134986] 08 p1125 N84-17314
Thermophysical properties of gaseous carbon dioxide/water mixtures
[PB84-125228] 08 p1127 N84-17330
Heat pump units with electrically driven compressors for water heating
[BLL-OA-TRANS-3181-(6196.3)] 08 p1154 N84-17514
Diffusion of particulate matter and wind speed profile in planetary boundary layer
[AD-A135961] 09 p1345 N84-18790
Interfacial tension between water and selected superheated liquids by quadrupole oscillations of drops
[AD-A136096] 10 p1455 N84-19502
Water and alcohol use in automotive diesel engines: Alternative Fuels Utilization Program
[DE84-004196] 10 p1470 N84-19603
Sources and sinks for nitrous oxide and experimental studies of the source of atmospheric COS, CS-2 and CH-3-Cl
[NASA-CR-175404] 10 p1531 N84-20030
A laboratory manual for the determination of metals in water and wastewater by atomic absorption spectrophotometry
[CSIR-TECH-GUIDE-K63] 11 p1628 N84-20853
Preliminary performance estimates and value analyses for binary geothermal power plants using ammonia-water mixtures as working fluids
[DE84-006124] 11 p1674 N84-20921
Role of soil moisture in maintaining droughts 12 p1859 N84-22110
Experiments on water/melt explosions, nature of products, and models of dispersal 13 p2081 N84-23483
Is there radar evidence for liquid water on Mars? 13 p2066 N84-23529
Rheological study of clay-kaolin aqueous suspensions
[NASA-TM-77363] 14 p2121 N84-23711
Photosynthetic water splitting, phase 1
[DE84-006847] 14 p2124 N84-23729
Compliance monitoring of purgeable organics with mass spectrometry
[PB84-157916] 14 p2124 N84-23733
The role of water in slip casting
[NASA-TM-77578] 14 p2134 N84-23786
The role of vegetation in the low-level water budget in fog
[AD-A139099] 14 p2179 N84-24051
Droplet size distribution and liquid volume concentration in a water spray: Predictions and measurements 15 p2291 N84-24748
Effect of sulfuric acid, oxygen, and hydrogen in high-temperature water on stress corrosion cracking of sensitized Type 304 stainless steel
[DE84-007276] 15 p2296 N84-24795
Fluid forces on a rigid cylinder in turbulent crossflow
[DE84-006364] 15 p2333 N84-25012
Nimbus 7 SMMR derived seasonal variations in the water vapor, liquid water and surface winds over the global oceans
[NASA-TM-86060] 16 p2526 N84-26233
Water mass classification in the North Atlantic using IR digital data and Bayesian decision theory
[AD-P003125] 16 p2534 N84-26266
High temperature oxide electrolytes for the splitting of water--the ROC process
[AD-A140661] 17 p2620 N84-26765
Mass transfer and thermodynamic studies of evaporative freezing of water
[PB84-153501] 17 p2620 N84-26769
Fluctuation of velocity distribution under influence of suspended particles on turbulence in bottom current 17 p2699 N84-27191
Anomalies in, and crystallization of supercooled water and aqueous solutions
[AD-A140562] 17 p2767 N84-27573
Consistent hydrodynamic mass for parallel prismatic beams in a fluid-filled container
[DE84-010381] 18 p2853 N84-28116
Features of sound penetration from air into water 18 p2858 N84-28152
Sensible heat storage in water
[PP-132] 18 p2868 N84-28206
An investigation of the existence of a surface water layer on aircraft radomes during simulated flight in heavy precipitation
[NASA-TM-85813] 19 p3003 N84-29035
Data needs for the track structure of alpha particles and electrons in water
[DE84-009154] 19 p3103 N84-29710
Desert emergency - lack of water - how to find and collect water. Plants and human survival in the desert
[AD-A142025] 20 p3228 N84-30513
Analytical methods for determination of inorganic anions
[BLL-WH-592-(9091.9F)] 21 p3358 N84-31301
Temperature dependence of the Raman OH-stretching overtone from liquid water
[AD-A143131] 21 p3359 N84-31305
Catalyzed photodissociation of water
[DE84-012253] 21 p3361 N84-31325
Experiments in development of powerful dye laser 21 p3466 N84-32095
Raman investigation of the rate of OH uptake in stressed and unstressed optical fibers
[AD-A143142] 21 p3498 N84-32172
Molecule microscopy 22 p3681 N84-33337
Isotope effects in the solution of gases in liquids
[DE84-014848] 23 p3715 N84-33549
Photodissociation of H2O at 15 nm: State distribution and spatial orientation of the OH (x2pi) decay products
[MPIS-5/1984] 23 p3715 N84-33552
USSR report: Chemistry
[JPRS-UCH-84-007] 24 p3867 N84-34508
Wet model of Saturn's ionosphere: Water from the rings
[NASA-TM-86144] 24 p3992 N84-35262

WATER BALANCE
Fluid intake at high altitudes 07 p1044 N84-16772

WATER CIRCULATION
NT COASTAL CURRENTS
NT OCEAN CURRENTS
NT WATER CURRENTS
NASA Oceanic Processes Program, fiscal year 1983
[NASA-TM-86248] 14 p2183 N84-24078
A numerical model for studying some coastal circulation
[INPE-2904-RPE/444] 17 p2737 N84-27386
Comments on atmospheric boundary layer forcing of ocean models, appendix J 18 p2885 N84-28305

WATER COLOR
Two different aspects of phytoplankton bloom seen by satellite (CZCS) in the western English Channel — coastal zone color scanner (CZCS) 03 p0399 N84-12604
Normalization of water-leaving radiance obtained from the Coastal Zone Colour Scanner (CZCS) data 03 p0399 N84-12610

WATER CONTENT
U MOISTURE CONTENT

WATER COOLED REACTORS
NT BOILING WATER REACTORS
NT LIGHT WATER REACTORS
NT PRESSURIZED WATER REACTORS
NT SWIMMING POOL REACTORS

WATER COOLING
U LIQUID COOLING

WATER CURRENTS
NT COASTAL CURRENTS
NT OCEAN CURRENTS
Chemical and biological processes in CO/sub 2-ocean models
[DE84-003304] 08 p1182 N84-17702
Investigation of the currents and density structures of Lake Erie
[PB84-140334] 11 p1672 N84-20911
Coordination: Southeast Continental Shelf studies
[DE84-004165] 11 p1692 N84-21034
Artificial upwelling driven by salinity differences in the ocean
[DE84-000086] 15 p2374 N84-25244
Fluctuation of velocity distribution under influence of suspended particles on turbulence in bottom current 17 p2699 N84-27191
Continental shelf processes affecting the oceanography of the South Atlantic Bight
[DE84-010113] 20 p3251 N84-30635
Long-term salinity, temperature and current measurements in upper Chesapeake Bay
[PB84-160260] 20 p3251 N84-30636
Discussion of the Ionian and Levantine Seas
[DE84-011562] 21 p3451 N84-31898

WATER DEPTH
Microwave backscattering from short gravity waves. A deterministic, coherent and dual-polarized laboratory study
[AD-A131217] 01 p0111 N84-10719
Results from wind tunnel and artificial rainfall tests of the modified scan sensor
[AD-A133238] 06 p0792 N84-15162
Methodology for the calculation of a shallow-water wave climate
[AD-A134715] 08 p1195 N84-17792
On modifications of the Zakharov equation for surface gravity waves
[AD-A135050] 08 p1217 N84-17943
Evolution of nonlinear wave groups on water of slowly-varying depth
[AD-A141260] 18 p2837 N84-28008
Underwater depth telemetry
[AD-D011054] 22 p3541 N84-32418

WATER EROSION
Fluvial erosion of impact craters: Earth and Mars 13 p2083 N84-23494
Quantitative and experimental modelling of sapping networks 13 p2084 N84-23500
Planetary geomorphology field studies: Washington and Alaska 13 p2084 N84-23501
A regression model for the temporal development of soil pipes and associated gullies in the alluvial-fill valley of the Rio Puerco, central New Mexico 13 p2084 N84-23502
Experiments examining the shapes of isolated bars in comparison with those occurring in braided rivers 13 p2084 N84-23503
The erosion of streamlined islands, longitudinal grooves and scour marks: Implications to the origin of the Martian outflow channels 13 p2084 N84-23504
Research in oceanography
[AD-A139890] 15 p2373 N84-25237

WATER FLOW
Measurement of two-phase flow velocity using a laser Doppler anemometer
[DE83-013522] 01 p0082 N84-10531
Snowy Range Observatory: Climatological and streamflow data report 1982
[PB83-243147] 03 p0403 N84-12633
Transport assessment: Arid task. Model verification studies
[DE84-000121] 04 p0555 N84-13653
Continuum mechanics approach to streamflow modeling
[PB83-265041] 05 p0698 N84-14581
Torsional ultrasonic technique for reactor vessel liquid level measurement
[DE84-003357] 08 p1228 N84-18024
A model for tidal circulation adapted to Monterey Bay, California
[AD-A135077] 09 p1351 N84-18827
Commentary on Columbia River instream flows
[PB84-133651] 10 p1527 N84-20007
Ice-covered volcanic water flows on Ganymede 13 p2073 N84-23432
Fluvial drainage systems: Margaritifer Sinus and Agyre (NC, NE) quadrangles, Mars 13 p2083 N84-23497

Water balance at a small watershed during the snowmelt season. 2: Runoff analysis 15 p2354 N84-25124
The source of Mangalia Valea 15 p2426 N84-25573
Separation flow of transsonic water stream past circular cone 17 p2647 N84-26929
Injection of drag reducing additives into turbulent water flows: Results from factorial design [AD-A141675] 19 p3024 N84-29177
Thermal ground water flow systems in the thrust zone in southeastern Idaho [DE84-011598] 20 p3229 N84-30517
Long-term salinity, temperature and current measurements in upper Chesapeake Bay [PB84-180260] 20 p3251 N84-30636
Environmental and water quality operational studies. Fluorometric techniques for tracing reservoir inflows [AD-A143135] 21 p3436 N84-31801
Compendium of US incompressible flow facilities [AD-A143650] 23 p3696 N84-33424

WATER HAMMER
Practice; criteria; provisions; mathematical descriptions: Examples [PUBL-310] 16 p2487 N84-25951

WATER HEATING
Performance of add-on-type heat pump water heaters using two different test methods [PB83-222703] 03 p0359 N84-12332
Developing proto-type pump which would utilize unique thermo-dynamic cycle [DE84-000323] 05 p0688 N84-14523
Heat pump units with electrically driven compressors for water heating [BLL-OA-TRANS-3181-(6196.3)] 08 p1154 N84-17514
Air- versus liquid-based solar-energy systems: A comparison of measured thermal performances [ANL-83-45] 12 p1838 N84-21978
Wind electric generator project [DE84-006747] 12 p1843 N84-22013
Economic assessment of nine geothermal direct use applications [DE84-006475] 12 p1844 N84-22021
Integrated gas-fired space heating/water heating system with electric air conditioning [PB84-181999] 20 p3171 N84-30138

WATER IMMERSION
Water immersion and its computer simulation as analogs of weightlessness [NASA-CR-171746] 08 p1200 N84-17821
Muscle tone changes in individuals of different age groups submitted to simulated weightlessness 12 p1864 N84-22150

WATER INJECTION
Rotorcraft contingency power study [NASA-CR-174675] 15 p2261 N84-24580

WATER JETS
U HYDRAULIC JETS

WATER LANDING
NT DITCHING (LANDING)
Water entry impact shock on flat faced cylindrical missiles [AD-A131937] 03 p0371 N84-12419
Water impact test of aft skirt end ring, and mid ring segments of the Space Shuttle Solid Rocket Booster [NASA-CR-171027] 16 p2457 N84-25752

WATER LOSS
Desert emergency of lack of water; how to find and collect water [AD-A140981] 18 p2789 N84-27703
Circulatory changes in orthostatic position in the presence of hyperthermia 20 p3253 N84-30647

WATER MANAGEMENT
Land use inventory of Salt Lake County, Utah from color infrared aerial photography 1982 [E84-10015] 02 p0237 N84-11553
Major water conservation and reclamation projects in the Jianghan Plain and surroundings, Hubei Province, China — Landsat imagery 03 p0397 N84-12593
Commentary on Columbia River instream flows [PB84-133651] 10 p1527 N84-20007
Development of standard procedures for evaluating oxygen transfer devices [PB84-147438] 12 p1846 N84-22032
Water balance at a small watershed during the snowmelt season, 1 15 p2354 N84-25123
Identification and preliminary characterization of global water resource issues which may be affected by CO2-induced climate change [DE84-011127] 20 p3246 N84-30604

WATER MASERS
The October 1983 recurrence of the outburst of the Orion water maser source and its past history [INPE-2985-PRE/444] 07 p1088 N84-17076
183 GHz water line variation: An energetic outburst in orion KL [NASA-TM-85956] 16 p2574 N84-26522

WATER POLLUTION
NT OIL POLLUTION
Marine remote sensing activities of the Joint Research Center, Ispra, Italy 03 p0396 N84-12586
Remote sensing applied to marine pollution control 03 p0399 N84-12607
Velocity plots and capture zones of pumping centers for ground-water investigations [DE83-016618] 03 p0401 N84-12624
To quench our thirst: The present and future status of freshwater resources of the United States, part 3 [DE83-016791] 03 p0401 N84-12625
Ecological Research Division marine research program [DE83-017880] 04 p0560 N84-13691
Calibration of laboratory bioassays with results from microcosms and ponds [DE83-017224] 04 p0560 N84-13692
Use of fauna as biomonitors [DE83-016082] 04 p0571 N84-13762
STS-5 (Space Transport System-5) fish kill, Kennedy Space Center, Florida [AD-A132958] 05 p0700 N84-14595
The Centro Informazioni Studi Esperienze (CISE) activity in background radioactivity [CISE-2070] 05 p0701 N84-14599
Remote sensing: New satellite systems and potential applications — conferences [ESA-SP-205] 08 p1174 N84-17650
The remote sensing of oil pollution at sea: An attempt at synthesis 08 p1176 N84-17662
Environmental Radiation Data Report 33, January - March 1983 [PB84-104785] 08 p1183 N84-17708
Acid precipitation in southeastern Wyoming [PB84-132521] 10 p1533 N84-20039
TRAN-STAT statistics for environmental studies. Statistical distributions for contaminant studies, and the estimation of average concentrations [DE84-006579] 12 p1845 N84-22029
Development of standard procedures for evaluating oxygen transfer devices [PB84-147438] 12 p1846 N84-22032
Acidification of rain by the oxidation of dissolved SO2 and the absorption of HNO3 [PB84-168368] 15 p2367 N84-25200
Report to the Congress on ocean pollution [PB84-166768] 15 p2374 N84-25246
Hydrologic simulation program. FORTRAN: Development, maintenance and application [PB84-168418] 16 p2511 N84-26114
Survey of environmental regulations applying to geothermal exploration, development and use [PB84-173665] 16 p2519 N84-26174
Fluorspar 19 p3053 N84-29375
Inland aquatic resources and biogeochemical cycles 20 p3217 N84-30438
Partitioning of toxic trace metals between solid and liquid phases in the Great Lakes [PB84-177849] 20 p3230 N84-30525
Geochemistry of oil shale leachates and interaction with geologic substrates, Piceance Creek Basin, Colorado 21 p3440 N84-31825
Remote monitoring of sediments and chlorophyll as traces of pollutant movements in a Mediterranean coastal area 23 p3780 N84-33969
The modification of the modulation transfer function by sea slicks measured by L-band radar 23 p3780 N84-33971
Remote sensing of coastal environment: The estuarine processes of Ta-Tu River 24 p3955 N84-35039

WATER PRESSURE
Pressure compensated force transducer — for fishing nets 17 p2629 N84-26817
Faults and nature of seismic discontinuities in continental crust section 18 p2860 N84-28161

WATER PURIFICATION
U WATER TREATMENT

WATER QUALITY
A study of Minnesota land and water resources using remote sensing [E84-10023] 02 p0237 N84-11558
Operational utilization of remote sensing in a study of the impact of disposal of urban waste at sea 03 p0400 N84-12611
Survey of water quality and flow in Maryland coastal zone streams: A data report [PB83-249375] 04 p0556 N84-13660
Relationships among precipitation, snowmelt, subsurface flow, groundwater recharge and streamflow generation in the Clear Creek watershed, eastern Sierra Nevada [PB83-253344] 05 p0697 N84-14579
The ultrastructural organization of the blue-green alga microcystis aeruginosa kuetz. Emend. Elenk in connection with toxicogenesis [AD-A132540] 05 p0712 N84-14662
Use of LANDSAT MSS (multispectral scanner) digital data in water quality mapping of the Neuse River estuary, North Carolina [PB83-256750] 06 p0867 N84-15645
A preliminary survey of plankton and periphyton in the Turn Barge Canal and basin area of Kennedy Space Center, Florida 06 p0928 N84-16027
Kinetic model on substrate-metabolic system and growth of microorganisms in activated sludge 07 p0982 N84-16362
Water resources data for Illinois, water year 1982. Volume 2: Illinois River Basin [PB84-120120] 09 p1338 N84-18739
Water resources data for Idaho, water year 1982. Volume 1: Great Basin and Snake River Basin above King Hill [PB84-118470] 09 p1338 N84-18740
Water resources data for Idaho, water year 1982. Volume 2: Upper Columbia River Basin and Snake River Basin below King Hill [PB84-118488] 09 p1338 N84-18741
Water resources data for New York, water year 1982. Volume 2: Long Island [PB84-119536] 09 p1339 N84-18742
Water resources data for New York, water year 1982. Volume 1: Eastern New York excluding Long Island [PB84-114198] 09 p1339 N84-18744
Water resources data for Puerto Rico, 1981 - 1982 [PB84-114701] 09 p1339 N84-18746
Water resources data for Indiana, water year 1982 [PB84-114990] 09 p1339 N84-18747
Water resources data for South Dakota, water year 1982 [PB84-117175] 09 p1339 N84-18748
Water resources data for Montana, water year 1982. Volume 1: Hudson Bay Basin, Missouri River Basin [PB84-117506] 09 p1339 N84-18749
Water resources data for Louisiana, water year 1982. Volume 1: Central and Northern Louisiana [PB84-118546] 09 p1339 N84-18750
Water resources data for Virginia, water year 1982 [PB84-118553] 09 p1340 N84-18751
Water resources data for Montana, water year 1982. Volume 2: Columbia River Basin [PB84-118561] 09 p1340 N84-18752
Water resources data for Alaska, water year 1982 [PB84-119569] 09 p1340 N84-18753
Water resources data for West Virginia, water year 1982 [PB84-120161] 09 p1340 N84-18754
Water resources data for Nevada, water year 1982 [PB84-120385] 09 p1340 N84-18755
Water resources data for Colorado, water year 1982. Volume 2: Colorado River Basin above Dolores River [PB84-120138] 10 p1527 N84-20004
Water resources data Texas: Water year, 1982. Volume 1: Arkansas River Basin, Red River Basin, Sabine River Basin, Neches River Basin, Trinity River Basin and intervening coastal basins [PB84-133271] 10 p1527 N84-20006
Water resources data for North Dakota: Water year, 1982 [PB84-136589] 10 p1528 N84-20008
Water resources data: Iowa water year, 1982 [PB84-137215] 10 p1528 N84-20009
MEXAMS (Metals exposure analysis modeling system) [PB84-157155] 12 p1799 N84-21736
Development of standard procedures for evaluating oxygen transfer devices [PB84-147438] 12 p1846 N84-22032
Relationship of regional water quality to aquifer thermal energy storage [DE84-006649] 14 p2169 N84-23992
Water resources data for South Carolina, water year 1982 [PB84-162577] 14 p2170 N84-24003
Modeling of water quality in Lake Michigan and the effect of the anomalous ice cover of 1976 - 1977 [PB84-167667] 16 p2511 N84-26115
Environmental and water quality operational studies. Riverine influences on the water quality characteristics of West Point Lake [AD-A141328] 18 p2877 N84-28271
Water resources data for Massachusetts and Rhode Island, water year 1982 [PB84-180009] 20 p3229 N84-30521
Water resources data for Arkansas, water year 1982 [PB84-181296] 20 p3229 N84-30522
Environmental and water quality operational studies. Fluorometric techniques for tracing reservoir inflows [AD-A143135] 21 p3436 N84-31801

Ten-year forecasts of water quality in Lake Michigan using a deterministic eutrophication model
[DE84-011425] 21 p3437 N84-31804
National environmental monitoring
[GPO-28-186] 22 p3619 N84-32933

WATER RECLAMATION
Major water conservation and reclamation projects in the Jianghan Plain and surroundings, Hubei Province, China — Landsat imagery 03 p0397 N84-12593
Evaluation of organic carbon analyzers for space application — for water reclamation
[NASA-CR-171755] 09 p1317 N84-18607
The development of a geopressured energy management information and analysis system in support of research planning: Third year
[PB84-174481] 16 p2511 N84-26116
Desert emergency of lack of water; how to find and collect water
[AD-A140961] 18 p2789 N84-27703

WATER RECOVERY
U WATER RECLAMATION

WATER RESOURCES
NT AQUIFERS
LANDSAT 4 investigations of thematic mapper and multispectral scanner applications
[E84-10006] 03 p0392 N84-12555
Velocity plots and capture zones of pumping centers for ground-water investigations
[DE83-016618] 03 p0401 N84-12624
To quench our thirst: The present and future status of freshwater resources of the United States, part 3
[DE83-016791] 03 p0401 N84-12625
Photo interpretation key to Michigan land cover/use
[E84-10048] 04 p0553 N84-13641
Proceedings of the 3rd LAN-Transport Workshop. Report of the third workshop for local area network implementors of the NBS specifications of the International Standards Organization transport class 4 protocol: Special interest group on file transfer protocol
[PB83-251348] 04 p0555 N84-13657
Radar and infrared remote sensing of terrain, water resources, arctic sea ice, and agriculture 06 p0868 N84-15651
Remote sensing and hydrologic models
[E84-10062] 07 p1022 N84-16628
Strategies for using remotely sensed data in hydrologic models 07 p1022 N84-16630
Assessments by satellite of meteorological data for water resources
[INPE-2949-PRE/432] 07 p1023 N84-16635
Water resources data for New Jersey, water year 1982. Volume 1: Atlantic Slope Basins, Hudson River to Cape May
[PB84-119726] 09 p1338 N84-18736
Water resources data for New Jersey, water year 1982. Volume 2: Delaware River Basin and tributaries to Delaware Bay
[PB84-119734] 09 p1338 N84-18737
Water resources data for Illinois, water year 1982. Volume 1: Illinois except Illinois River Basin
[PB84-120112] 09 p1338 N84-18738
Water resources data for Illinois, water year 1982. Volume 2: Illinois River Basin
[PB84-120120] 09 p1338 N84-18739
Water resources data for Idaho, water year 1982. Volume 1: Great Basin and Snake River Basin above King Hill
[PB84-118470] 09 p1338 N84-18740
Water resources data for Idaho, water year 1982. Volume 2: Upper Columbia River Basin and Snake River Basin below King Hill
[PB84-118488] 09 p1338 N84-18741
Water resources data for New York, water year 1982. Volume 2: Long Island
[PB84-119536] 09 p1339 N84-18742
Water resources data for Colorado, water year 1982. Volume 3: Dolores River Basin, Green River Basin, and San Juan River Basin
[PB84-120146] 09 p1339 N84-18743
Water resources data for New York, water year 1982. Volume 1: Eastern New York excluding Long Island
[PB84-114198] 09 p1339 N84-18744
Water resources data for Puerto Rico, 1981 - 1982
[PB84-114701] 09 p1339 N84-18746
Water resources data for Indiana, water year 1982
[PB84-114990] 09 p1339 N84-18747
Water resources data for South Dakota, water year 1982
[PB84-117175] 09 p1339 N84-18748
Water resources data for Montana, water year 1982. Volume 1: Hudson Bay Basin, Missouri River Basin
[PB84-117506] 09 p1339 N84-18749
Water resources data for Louisiana, water year 1982. Volume 1: Central and Northern Louisiana
[PB84-118546] 09 p1339 N84-18750
Water resources data for West Virginia, water year 1982
[PB84-120161] 09 p1340 N84-18754
Water resources data for Nevada, water year 1982
[PB84-120385] 09 p1340 N84-18755
Water resources data for Utah, water year 1982
[PB84-120484] 09 p1340 N84-18756
Water resources data for New York, water year 1982. Volume 3: Western New York
[PB84-119544] 10 p1527 N84-20003
Water resources data for Colorado, water year 1982. Volume 2: Colorado River Basin above Dolores River
[PB84-120138] 10 p1527 N84-20004
Water resources data Texas: Water year, 1982. Volume 1: Arkansas River Basin, Red River Basin, Sabine River Basin, Neches River Basin, Trinity River Basin and intervening coastal basins
[PB84-133271] 10 p1527 N84-20006
Water resources data for North Dakota: Water year, 1982
[PB84-136589] 10 p1528 N84-20008
Water resources data: Iowa water year, 1982
[PB84-137215] 10 p1528 N84-20009
Remote sensing training for Corps of Engineering personnel: The university training module concept
[NASA-CR-175204] 10 p1549 N84-20154
Acid rain bibliography
[PB84-138940] 11 p1677 N84-20941
Water resources data for Pennsylvania, Water Year 1982. Volume 1: Delaware River Basin
[PB84-161579] 14 p2170 N84-23999
Water resources data for New Hampshire and Vermont, Water Year 1982
[PB84-161868] 14 p2170 N84-24000
Water resources data for Florida, water year 1982. Volume 1B: Northeast Florida ground water
[PB84-161876] 14 p2170 N84-24001
Water resources data for Florida, water year 1982. Volume 1A: Northeast Florida surface water
[PB84-162338] 14 p2170 N84-24002
Water resources data for South Carolina, water year 1982
[PB84-162577] 14 p2170 N84-24003
Water resources data, Kentucky water year 1982
[PB84-162320] 14 p2171 N84-24004
Water resources data for Oregon, water year 1982. Volume 1: Eastern Oregon
[PB84-164326] 14 p2171 N84-24005
Water resources data for Oregon, water year 1982. Volume 2: Western Oregon
[PB84-164334] 14 p2171 N84-24006
Water resources data for Minnesota, water year 1982. Volume 1: Great Lakes and Souris-Red-Rainy River Basins
[PB84-163047] 14 p2171 N84-24007
Water resources data for Minnesota water year, 1982. Volume 2: Upper Mississippi and Missouri River Basins
[PB84-163054] 14 p2171 N84-24008
A report of Ceara Project activities
[INPE-2988-RPE/452] 17 p2711 N84-27260
methodological problems in evaluating and predicting water-ice resources in mountainous areas 15 p2856 N84-28135
New facts concerning dessication of Central Asia 18 p2856 N84-28136
Reports on cartography and geodesy. Series 1: Original reports, number 91
[ISSN-0469-4236] 19 p3040 N84-29286
Public water supply base map 1 : 200,000 19 p3040 N84-29287
Inland aquatic resources and biogeochemical cycles 20 p3217 N84-30436
Water resources data for Massachusetts and Rhode Island, water year 1982
[PB84-180009] 20 p3229 N84-30521
Water resources data for Arkansas, water year 1982
[PB84-181296] 20 p3229 N84-30522
Water resources data for Alabama, water year 1982
[PB84-183250] 20 p3229 N84-30523
Identification and preliminary characterization of global water resource issues which may be affected by CO2-induced climate change
[DE84-011127] 20 p3246 N84-30604
Agriculture and water use: Present and future issues
[GPO-30-599] 22 p3614 N84-32897

WATER RUNOFF
Atmospheric model development 13 p2004 N84-22998
Water balance at a small watershed during the snowmelt season, 1 15 p2354 N84-25123
Water balance at a small watershed during the snowmelt season. 2: Runoff analysis 15 p2354 N84-25124
Analytical and experimental study of grooved pavement runoff
[AD-A141021] 18 p2798 N84-27752
Estimating net rainfall, evaporation and water storage of a bare soil from sequential L-band emissivities 23 p3769 N84-33689

WATER TABLES
Water level measurement network computer file
[DE84-005388] 11 p1672 N84-20909

WATER TAKEOFF AND LANDING AIRCRAFT
NT SEAPLANES

WATER TEMPERATURE
NT OCEAN TEMPERATURE
Expendable bathythermograph (XBT) measurements in the Western Alboran Sea, October 1982
[AD-A133939] 06 p0884 N84-15748
Water resources data for Illinois, water year 1982. Volume 2: Illinois River Basin
[PB84-120120] 09 p1338 N84-18739
Water resources data for Puerto Rico, 1981 - 1982
[PB84-114701] 09 p1339 N84-18746
Water resources data for South Dakota, water year 1982
[PB84-117175] 09 p1339 N84-18748
Water resources data for Virginia, water year 1982
[PB84-118553] 09 p1340 N84-18751
Observations of surface water temperature and salinity in the Eastern part of the East Scheldt from 1921 until present
[KNMI-TR-40(FM)] 10 p1526 N84-19999
Water resources data Texas: Water year, 1982. Volume 1: Arkansas River Basin, Red River Basin, Sabine River Basin, Neches River Basin, Trinity River Basin and intervening coastal basins
[PB84-133271] 10 p1527 N84-20006
Water resources data for North Dakota: Water year, 1982
[PB84-136589] 10 p1528 N84-20008
Observations of surface water temperature and salinity in the East Scheldt during the period 1894-1982
[KNMI-WR-83-12(FM)] 10 p1540 N84-20094
Investigation of the currents and density structures of Lake Erie
[PB84-140334] 11 p1672 N84-20911
GCM sensitivity to 1982 - 1983 equatorial Pacific sea surface temperature anomalies 12 p1858 N84-22106
Long-term salinity, temperature and current measurements in upper Chesapeake Bay
[PB84-180260] 20 p3251 N84-30836
Temperature dependence of the Raman OH-stretching overtone from liquid water
[AD-A143131] 21 p3359 N84-31305

WATER TREATMENT
Optimizing coagulation-adsorption for haloform and TOC (Total Organic Carbon) reduction
[PB83-210757] 01 p0058 N84-10378
Method for treating wastewater using microorganisms and vascular aquatic plants
[NASA-CASE-NSTL-10] 03 p0406 N84-12654
Development of standard procedures for evaluating oxygen transfer devices
[PB84-147438] 12 p1846 N84-22092
Navy electroplating pollution control technology assessment manual
[AD-A140336] 16 p2477 N84-25879
Agricultural waste water reverse osmosis pretreatment
[PB84-153543] 17 p2725 N84-27347
Evaluation of alkaline chemical addition and organic loading schemes for enhancement of secondary treatment and ancillary nutrient removal
[AD-A141178] 18 p2877 N84-28270
Application of the finite compartment model of carbon adsorption to binary systems
[AD-A141483] 19 p2988 N84-28932
Biocidal quaternary ammonium resin
[NASA-CR-171802] 19 p3063 N84-29433
The use of aquatic plants to purify waste water in recreational waters
[REPT-226] 21 p3437 N84-31805

WATER TUNNEL TESTS
Control of the forebody vortex orientation by asymmetric air injection. Part A: Application to enhance departure/spin recovery of fighter aircraft and Part B: Details of the flow structure 01 p0014 N84-10088
Cavitation inception observations on axisymmetric headforms with turbulence stimulators
[AD-A133517] 06 p0844 N84-15506
Multi-ducted inlet combustor research and development
[AD-A135906] 09 p1257 N84-18205
Turbulence measurements in plane jets and plumes in crossflow 10 p1496 N84-19783
Visualisation of the vortex dominated flow around a delta wing-body combination using a water tunnel
[BAE-821/RES/6631] 13 p1988 N84-22904
A flow visualisation study of tip vortex formation
[ARL-AERO-NOTE-421] 14 p2100 N84-23603

Water-tunnel study of transition flow around circular cylinders
[NASA-TM-85879] 14 p2100 N84-23606

WATER TUNNELS
U HYDRAULIC TEST TUNNELS

WATER VAPOR
The effects of atmospheric water vapor absorption on infrared laser propagation in the 5 micrometer band
[AD-A130788] 01 p0087 N84-10566
Thermodynamic surface for water: The formulation and computer programs
[PB83-249789] 04 p0496 N84-13256
Project Waterhole III — ionospheric perturbation experiments 05 p0640 N84-14210
Trichite growth during oxidation of titanium and TA6V4 alloy by water vapor at high temperatures
[NASA-TM-76974] 06 p0805 N84-15248
Forced convection heat transfer to air/water vapor mixtures
[NASA-CR-3769] 07 p1000 N84-16488
Remote measurements of ozone, water vapor and liquid water content, and vertical profiles of temperature in the lower troposphere
[NASA-CR-173206] 07 p1033 N84-16704
A study of physical processes for space radiation protection
[NASA-CR-173183] 07 p1071 N84-16954
Low-energy proton stopping power of N2, O2 and water vapor and deviations from Bragg's rule 07 p1071 N84-16956
Dual channel water vapor radiometer system
[PB84-119445] 08 p1189 N84-17746
Accurate evaluation of homogenous and nonhomogeneous gas emissivities
[NASA-CR-173307] 09 p1277 N84-18340
Collision widths of CO lines broadened by water vapor at elevated temperatures
[AD-A136121] 09 p1323 N84-18644
Another look at the optimum frequencies for a water vapor radiometer 10 p1473 N84-19622
Inversion algorithms for water vapor radiometers operating at 20.7 and 31.4 GHz 10 p1473 N84-19623
Turbulent exchange of carbon dioxide, water vapor, heat and momentum over crop surfaces 10 p1536 N84-20079
Solar-blind Raman lidar, phase 2
[AD-A137604] 11 p1732 N84-21295
Research and development on high temperature water vapor electrolysis 11 p1739 N84-21348
High temperature electrolysis of water vapor. Status and perspectives of the German research and development activities 11 p1739 N84-21349
Water vapor profile retrieval simulation studies for the HIRS/MSU and AMTS/MSU sounders 12 p1851 N84-22058
Ascension Island, South Atlantic Range reference atmosphere, 0.66 km altitude
[AD-A138470] 12 p1861 N84-22122
NOAA program for data analysis for the first detection of CO/sub 2 induced-climate change
[DE84-006509] 12 p1861 N84-22125
Millimeter wave attenuation in moist air: Laboratory measurements and analysis
[AD-A139502] 14 p2140 N84-23832
Aerosol growth in a cold environment
[AD-A139907] 15 p2287 N84-24720
Calculations of atmospheric transmittance in the 11 micrometer window for estimating skin temperature from VISSR infrared brightness temperatures
[NASA-TM-86105] 15 p2319 N84-24922
High temperature electrolysis of water vapor: HOT ELLY, phase 2A
[BMFT-FB-T-84-032] 16 p2463 N84-25784
Satellite observations of a monsoon depression
[NASA-CR-173590] 16 p2526 N84-26232
Nimbus 7 SMMR derived seasonal variations in the water vapor, liquid water and surface winds over the global oceans
[NASA-TM-86060] 16 p2526 N84-26233
183 GHz water line variation: An energetic outburst in orion KL
[NASA-TM-85956] 16 p2574 N84-26522
Density, specific humidity and water vapor elasticity above condensation level 17 p2697 N84-27183
A new technique for monitoring the water vapor in the atmosphere 17 p2716 N84-27293
Search for new water vapor masers in the direction of ROW 19-20, 38 and 48-49
[INPE-3039-TDL/156] 17 p2775 N84-27622
Effects of water-vapor on friction and deformation of polymeric magnetic media in contact with a ceramic oxide
[NASA-TM-83727] 20 p3161 N84-30072
Water vapor electrolysis: Systems considerations and cost/performance benefits
[DE84-007389] 21 p3374 N84-31410
Geophysical monitoring for climatic change Number 11,
[PB84-181841] 21 p3449 N84-31883
Determination of microwave attenuation due to the influence of atmospheric gases using the radiometric technique
[INPE-2850-PRE/391] 23 p3730 N84-33637
Measurement of range-resolved water vapor concentration by coherent CO2 differential absorption lidar
[AD-A143594] 23 p3753 N84-33791
Ground-based remote sensing of temperature and water vapor by passive microwave radiometers 23 p3774 N84-33925
Combined ground-based and satellite remote sensing of temperature 23 p3774 N84-33926
Differential emission measurement for atmospheric absorption by a ground-based microwave radiometer 23 p3774 N84-33928
A search for 183-GHz emission from water in late-type stars
[NASA-TM-85987] 23 p3838 N84-34348
Atmospheric backscatter research 24 p3924 N84-34837
Handbook of geophysics and space environments. Chapter 16: Water vapor, precipitation, clouds and fog, revised
[AD-A144178] 24 p3934 N84-34901
Digital electronic hygrometer 24 p3961 N84-35084

WATER VEHICLES
NT AIRCRAFT CARRIERS
NT BOATS
NT CARGO SHIPS
NT SHIPS
NT SUBMARINES
NT SURFACE EFFECT SHIPS
NT TANKER SHIPS
NT UNDERWATER RESEARCH LABORATORIES
NT UNDERWATER VEHICLES

WATER WAVES
NT TIDAL WAVES
Turbulent wind effects on tension leg platform surge
[PB83-207464] 01 p0058 N84-10376
Multifrequency HF radar observations of currents and current shears
[AD-A131528] 01 p0067 N84-10439
Measured ionospheric Doppler spreading of HF ground backscatter
[PB83-220764] 01 p0068 N84-10446
Microwave backscattering from short gravity waves. A deterministic, coherent and dual-polarized laboratory study
[AD-A131217] 01 p0111 N84-10719
On the growth of gravity-capillary waves by wind
[KNMI-WR-83-10] 03 p0412 N84-12698
The nature and analysis of random waves in shallow water. Part 1: Text and figures
[CSIR-RR-388/1-PT-1] 04 p0532 N84-13496
The nature and analysis of random waves in shallow water. Part 2: Appendices
[CSIR-RR-388/2-PT-2] 04 p0532 N84-13497
Investigation of the generation of regular waves by a sliding valve pneumatic wave generator
[CSIF-RR-553] 04 p0543 N84-13579
Propagation of weakly-nonlinear surface water waves in regions with varying depth and current
[AD-A132593] 05 p0711 N84-14657
900 km of digital ocean wave spectra from the SEASAT SAR 07 p0990 N84-16415
Elements of an iceberg deterioration model
[AD-A133223] 07 p1041 N84-16749
Cruises undertaken by the Institute of Oceanographic Sciences, Tauton, 1981
[IOS-133] 07 p1041 N84-16753
The effects of wind waves on sea level at the coast
[IOS-155] 07 p1042 N84-16754
Sea state monitoring and applications 08 p1176 N84-17665
West breakwater-Sines (Portugal): Wave climatology 08 p1194 N84-17787
Wave propagation study of the central Mediterranean Sea using ocean bottom seismometers
[AD-A135484] 08 p1195 N84-17790
Nearshore current model workshop summary
[AD-A134702] 08 p1195 N84-17791
Methodology for the calculation of a shallow-water wave climate
[AD-A134715] 08 p1195 N84-17792
Solitary waves in water colliding head-on
[AD-A135537] 08 p1220 N84-17964
Evolution of nonlinear wave groups on water of slowly-varying depth
[AD-A137420] 10 p1491 N84-19751
The reading of plots in weather and water wave charts
[KNMI-152-BV-10] 10 p1540 N84-20092
Numerical schemes for a model for nonlinear dispersive waves
[NASA-CR-175416] 11 p1714 N84-21179
Surface wave propagation over sinusoidally varying topography: Theory and observation
[IOS-159-PT-1] 13 p1991 N84-22922
Surface wave propagation over sinusoidally varying topography: Theory and observation
[IOS-159-PT-2] 13 p1991 N84-22923
Waves recorded off the Eddystone lighthouse. Data for September 1978 to August 1981 at position 50 deg 10 min N, 004 deg 15 min W: Summary analysis and interpretation report
[IOS-132] 13 p2019 N84-23090
Wind, waves and swell in the Antarctic marginal ice zone by SEASAT radar altimeter 14 p2161 N84-23941
Optmization of breakwater lengths in relation to wave penetration
[PUBL-312] 15 p2360 N84-25160
Observations of sea surface conditions during WEAP (Weapons Environmental Acoustics Program) experiment, May 1982: An example of real-time monitoring of the upper ocean environment
[AD-A140021] 15 p2374 N84-25241
Trapped topographic waves in Baltic Sea 17 p2698 N84-27186
Some case studies of ocean wave physical processes utilizing the GSFC airborne radar ocean wave spectrometer 17 p2715 N84-27263
Evolution of nonlinear wave groups on water of slowly-varying depth
[AD-A141260] 18 p2837 N84-28008
Wave climate synthesis using NMIMET: A trilogy of published papers
[NMI-R-167] 18 p2855 N84-28127
Assessment of a new global capability for wave climate synthesis 18 p2855 N84-28128
Ocean Wave Statistics: A new look 18 p2855 N84-28129
Wave climate synthesis worldwide 18 p2855 N84-28130
Edge waves by boundary collocation
[AD-A137959] 18 p2924 N84-28545
The nature of microwave backscattering from water waves
[AD-A141877] 19 p3006 N84-29056
Project Noordwijk, part 5: Analysis of the fading component of the radar backscatter
[AD-B083044] 19 p3010 N84-29082
Wave uplift pressure on horizontal platforms
[PB84-190628] 20 p3188 N84-30257
USSR report: Earth sciences
[JPRS-UES-84-006] 20 p3223 N84-30479
Ocean Energy Technology Program
[DE84-012052] 20 p3236 N84-30542
Wave force investigations at the second Christchurch Bay Tower
[NMI-R177] 20 p3250 N84-30626
US Navy hindcast spectral ocean wave model climatic atlas: North Atlantic Ocean
[AD-A141810] 20 p3250 N84-30627
The breaking of ocean surface waves
[AD-A142356] 20 p3250 N84-30629
Summary of SAR (Synthetic Aperture Radar) ocean wave data archived at ERIM (Environmental Research Institute of Michigan)
[AD-A142620] 20 p3251 N84-30633
Documentation of wave-height and tidal analysis programs for automated data acquisition and control systems
[AD-A142679] 20 p3251 N84-30634
Transition bifurcation branches in non-linear water waves
[CAR-8418] 21 p3398 N84-31556
Research in nonlinear motion
[AD-A143000] 21 p3473 N84-32013
Comparison of ocean wave energy measured by SEASAT synthetic aperture radar with SAR surface wave imaging theories 23 p3771 N84-33908
Removal of ambiguity of two-dimensional gray level variance spectra obtained by processing ship radar images of ocean waves 23 p3772 N84-33909
Spectrasat: A concept for the collection of global directional wave spectra 23 p3782 N84-33981
Direct and inverse methods for ocean-wave imaging by SAR 23 p3783 N84-33995

WATERPROOFING
Improved moisture resistance of fiber reinforced plastics
[AD-A132762] 05 p0659 N84-14333

An evaluation of a hydrophobic silica pigment used as a water-repellent finish
[AD-A137389] 10 p1488 N84-19575

WATERSHEDS
The effects of solar incidence angle over digital processing of LANDSAT data
[E84-10007] 01 p0099 N84-10641
Aircraft remote sensing of soil moisture and hydrologic parameters, Taylor Creek, Florida, and Little River, Georgia, 1979 data report
[E84-10010] 02 p0236 N84-11548
Snow cover and meteorology at Allagash, Maine, 1977 - 1980
[AD-A132013] 03 p0410 N84-12684
Development of design hyetographs for southern Nevada
[DE84-001227] 04 p0554 N84-13649
Parametric model for peak flow prediction in ungaged ephemeral watersheds
[PB83-249698] 04 p0555 N84-13658
Relationships among precipitation, snowmelt, subsurface flow, groundwater recharge and streamflow generation in the Clear Creek watershed, eastern Sierra Nevada
[PB83-253344] 05 p0697 N84-14579
Review of hydrologic models for evaluating use of remote sensing capabilities 07 p1022 N84-16629
Riparian habitat on the Humboldt River, Deeth to Elko, Nevada
[E84-10116] 14 p2167 N84-23978
Water balance at a small watershed during the snowmelt season, 1 15 p2354 N84-25123
Water balance at a small watershed during the snowmelt season. 2: Runoff analysis 15 p2354 N84-25124
A geographic information system for regional hydrologic modeling 22 p3613 N84-32691
Geomorphic approach to hydrograph synthesis, with potential for application to ungaged watersheds
[PB84-190115] 22 p3615 N84-32904
Calculation of flood hydrographs using satellite-derived land-use information in the Dreisam watershed, S. W. Germany 23 p3771 N84-33904

WATERWAYS
NT CANALS
NT HARBORS

WATTMETERS
Measuring accurately single-phase sinusoidal and non-sinusoidal power
[AD-A136408] 09 p1307 N84-18541

WAVE AMPLIFICATION
Approximate formulas for the far fields and gain of open-ended rectangular waveguide
[PB83-233999] 02 p0212 N84-11384
VLF wave injections from the ground 05 p0634 N84-14173
Microwave tubes: Literature survey number 4, comprising the year 1982
[FOA-C-30331-E] 06 p0831 N84-15407
Strong motion effects due to seismic waves in dipping layers
[PB84-127919] 08 p1189 N84-17747

WAVE ATTENUATION
NT ACOUSTIC ATTENUATION
NT RADAR ATTENUATION
NT RADIO ATTENUATION
Calculation of ground wave attenuation over irregular, inhomogeneous, layered media using PROGRAM WAGNER 03 p0364 N84-12369
Real-time attenuation of heated optical fibers in a nuclear reactor
[DE83-015141] 03 p0438 N84-12873
Attenuation measurements between 840 and 1620 nm on an optical cable in Berlin
[FI-465-TBR-22] 03 p0442 N84-12906
Propagation effects on satellite systems at frequencies below 10 GHz, a handbook for satellite systems design, 1st edition
[NASA-RP-1108] 04 p0517 N84-13397
Short period P-wave attenuation in the middle and lower mantle of the Earth 05 p0706 N84-14633
Measurement of multimode optical fiber attenuation
[PB83-151207] 05 p0748 N84-14913
Surface wave path corrections, deterministic discrimination and body wave attenuation
[AD-A133574] 06 p0878 N84-15714
Attenuation of millimeter waves on Earth-space paths by rain clouds
[PB84-115120] 08 p1148 N84-17471
Wave propagation study of the central Mediterranean Sea using ocean bottom seismometers
[AD-A135484] 08 p1195 N84-17790
Wave attenuation in periodic structures
[AD-A138824] 13 p2001 N84-22984
Millimeter wave attenuation in moist air: Laboratory measurements and analysis
[AD-A139502] 14 p2140 N84-23832
Optical fiber characterization: Attenuation, frequency domain bandwidth, and radiation patterns, volume 2
[PB84-158914] 14 p2226 N84-24357
Measurements of rain attenuation at 12 GHz with the BSE
[NHK-LN-292] 15 p2370 N84-25218
Influence of electric fields on potential waves in Earth's magnetosphere 17 p2705 N84-27225
Scattering of ultrasound by minority phases in polycrystalline metals
[AERE-R-11162] 18 p2929 N84-28574
Wave attenuation and mode dispersion in a waveguide coated with lossy dielectric material
[NASA-CR-173820] 20 p3172 N84-30145
Invention of a tunable damper for use with an acoustic waveguide in hostile environments
[DE84-013109] 20 p3292 N84-30897
Double scattering background in a CW lidar 21 p3483 N84-32072
Numerical methods for analyzing electromagnetic scattering
[NASA-CR-173916] 22 p3575 N84-32645
The role of the reflection coefficient in precision measurement of ultrasonic attenuation
[NASA-TM-83788] 22 p3606 N84-32849

WAVE DEGRADATION
Shock waves in 3-dimensional elastic solids
[AD-A138018] 12 p1826 N84-21906

WAVE DIFFRACTION
Project scattering of elastic waves
[DE83-013574] 01 p0068 N84-10444
Diffraction of a plane electromagnetic wave by an elliptic cylinder: The multi-origin technique
[PB83-166769] 06 p0827 N84-15390
Acoustic diffraction by an impedance-covered edge
[AD-A133266] 06 p0909 N84-15904
Interaction of weak shock waves and discrete gas inhomogeneities 06 p1155 N84-17517
Strong motion effects due to seismic waves in dipping layers
[PB84-127919] 08 p1189 N84-17747
Direct and inverse diffraction problems for QNDE (Quantitative Non-Destructive Evaluation) applications
[AD-A135838] 09 p1327 N84-18668
Research in the field of fluid mechanics, with emphasis on non linear waves and diffraction of linear wave
[AD-A138378] 12 p1916 N84-22485
Automatic elimination of static unbalance of rotor in anisotropic bearings 13 p1973 N84-22803
Optimization of breakwater lengths in relation to wave penetration
[PUBL-312] 15 p2360 N84-25160
The exact surface impedance approach to problems of diffraction in open waveguides 16 p2478 N84-25888
Joint services electronics program
[AD-A140434] 16 p2485 N84-25936
Possibility of extending Kirchhoff's approximation to problems of wave diffraction by transparent nonhomogeneous bodies 18 p2822 N84-27920
Problems of diffraction and propagation of waves (selected articles)
[AD-A143912] 23 p3731 N84-33650
Diffraction of waves by bed boundaries in an open borehole 23 p3776 N84-33939

WAVE DISPERSION
Parametric acoustic array formation via weak collinear and noncollinear interaction in dispersive fluids
[AD-A133660] 05 p0675 N84-14436
Fast collisionless tearing in an anisotropic neutral sheet
[NASA-CR-175415] 11 p1737 N84-21331
Scaling of the beam plasma discharge for low magnetic fields
[AD-A139415] 14 p2229 N84-24363
Wave attenuation and mode dispersion in a waveguide coated with lossy dielectric material
[NASA-CR-173820] 20 p3172 N84-30145
Numerical and analytical studies of steady detonation waves with expansion losses
[AD-A142601] 20 p3184 N84-30232
On waves in nonadiabatic and nonequilibrium gases
[AD-A141450] 21 p3383 N84-31485
Application of surface magnetoplasmons on semiconductor substrates
[AD-A143787] 23 p3830 N84-34293

WAVE DRAG
NT INTERFERENCE DRAG
User's guide for a computer program for calculating the zero-lift wave drag of complex aircraft configurations
[NASA-TM-85870] 02 p0271 N84-11774
Improved wave drag predictions using modified linear theory
[NASA-CR-174494] 03 p0320 N84-12096
Wave drag as the objective function in transonic fighter wing optimization
[NASA-TP-2265] 08 p1096 N84-17127
Wave drag of elongated astroid bodies at moderate supersonic flight velocities 13 p1972 N84-22797
XSECT: A computer code for generating fuselage cross sections - user's manual
[NASA-TM-83218] 18 p2788 N84-27696

WAVE EQUATIONS
NT DIRAC EQUATION
NT KLEIN-GORDON EQUATION
NT KORTEWEG-DEVRIES EQUATION
NT SCHROEDINGER EQUATION
Improved wave drag predictions using modified linear theory
[NASA-CR-174494] 03 p0320 N84-12096
Numerical modeling techniques according to the wave equation and the ray method — in seismology
[BMFT-FB-T-83-136] 03 p0362 N84-12354
Considerations of the three-wave interactions
[IPPJ-641] 03 p0444 N84-12915
An introduction to the parabolic equation for acoustic propagation
[AD-A132315] 04 p0595 N84-13925
Parametric acoustic array formation via weak collinear and noncollinear interaction in dispersive fluids
[AD-A133660] 05 p0675 N84-14436
On the model equations which describe nonlinear wave motions in a rotating fluid
[AD-A134556] 07 p1002 N84-16499
Nonlinear mode coupling theory of the lower-hybrid-drift instability
[AD-A135538] 08 p1187 N84-17734
Control theory of hyperbolic systems
[AD-A135146] 08 p1218 N84-17952
Smoothness of bounded solutions of nonlinear evolution equations
[AD-A135294] 08 p1219 N84-17958
A comparison of explicit time integration techniques for the finite element shock wave equations
[AD-A134757] 08 p1220 N84-17968
A study of waves on a curved space-time 08 p1237 N84-18083
Rough surface scattering via the smoothing method
[AD-A137025] 10 p1575 N84-20323
Automatic elimination of static unbalance of rotor in anisotropic bearings 13 p1973 N84-22803
Asymptotic models for wave scattering from very rough surfaces 13 p1984 N84-22883
On the extremum of bilinear functional for hyperbolic type P.D.E.
[AD-P002942] 14 p2197 N84-24182
The numerical calculation of traveling wave solutions of nonlinear parabolic equations on the line
[AD-A139238] 14 p2212 N84-24263
A finite element method for the gas dynamics equations in 2 dimensions and in conservation form
[AD-A139774] 15 p2333 N84-25009
Vibrations of and radiation from shell of revolution under hoop load 17 p2649 N84-26940
A stable explicit scheme for the ocean acoustic wave equation
[AD-A141800] 19 p3062 N84-29427
Elliptic solvers for Mediterranean Sea ocean modeling
[AD-A142306] 19 p3062 N84-29429
Random rays, geometric acoustics, and the parabolic wave equation
[AD-A141398] 19 p3063 N84-29568
An integral equation for the solution of nonlinear wave equations 22 p3529 N84-32347
Non-existance of global solutions of partial of f(u sub t) with respect to t in two and three space dimensions
[AD-A144692] 24 p3952 N84-35030

WAVE EXCITATION
NT ACOUSTIC EXCITATION
NT HARMONIC EXCITATION
Calculation of the performance of an RF excited transverse flow CO2 laser
[ESA-TT-832] 19 p3030 N84-29221
Parametric excitation of transverse acoustic slot waves in solids by means of microwave electric field 21 p3478 N84-32045

WAVE FRONT DEFORMATION
Deformable subreflector computed by geometric optics 04 p0519 N84-13407

WAVE FRONT RECONSTRUCTION
NT KINOFORM
Estimate of blast wave properties — unconfined vapor cloud explosions (UVCE) 06 p0836 N84-15443

WAVE FRONTS
NT SHOCK FRONTS
Passive source localization from spatially correlated angle-of-arrival data
[AD-A133141] 06 p0822 N84-15362
The coupling of tracked and interior waves in a front tracking scheme
[AD-P002944] 14 p2197 N84-24184
Meteorological and dynamical requirements for MST radar networks: Waves 17 p2683 N84-27080

Wavefront reversal in nonstationary medium with large-scale inhomogeneities description by operator equations 18 p2822 N84-27918
Theory of acoustic speckle 21 p3490 N84-32114
Wave fronts to infinity of real analytic functions 22 p3634 N84-33031

WAVE FUNCTIONS
NT MOLECULAR ORBITALS
The 100% alignment of hydrogen excited states in beam-foil spectroscopy
[DE83-017963] 03 p0436 N84-12859
Progress in lattice gauge theory
[DE83-014055] 03 p0436 N84-12862
Contributions to the theory of quantum 1/f noise 06 p1236 N84-18062
Configuration space Faddeev calculations
[DE84-006492] 11 p1730 N84-21289
Hyperspherical coordinate theory of 2 electron atomic processes
[DE84-009447] 19 p3102 N84-29705
Application of the graphical unitary group approach to the energy second derivative for CI wave functions via the coupled perturbed CI equations
[DE84-008469] 19 p3112 N84-29772
Calculation of molecular final states and their effect on a precision neutrino mass experiment
[DE84-011071] 20 p3295 N84-30921
Fractional quantization of the Hall effect
[DE84-008894] 20 p3310 N84-31023
A simple DWBA (Franck-Condon) treatment of H-atom transfers between two heavy particles
[AD-A143867] 23 p3822 N84-34236

WAVE GENERATION
Investigation of the generation of regular waves by a sliding valve pneumatic wave generator
[CSIF-RR-553] 04 p0543 N84-13579
Alfven masers 05 p0636 N84-14182
Preliminary results from the Heating Rocket (HERO) project: In situ measurements of ionospheric modifications using sounding rockets 05 p0636 N84-14183
Strong acoustic wave action — on the atmosphere 05 p0636 N84-14186
On the stimulated precipitation of electrons and the mechanism of wave generation in the whistler range in the ARAKS experiment 05 p0637 N84-14190
Experimental and theoretical aspects of the generation of MHD waves by chemical releases in the ionosphere 05 p0639 N84-14206
Microwave tubes: Literature survey number 4, comprising the year 1982
[FOA-C-30331-E] 06 p0831 N84-15407
Vibrating-chamber levitation systems
[NASA-CASE-NPO-16142-1] 07 p1070 N84-16948
Laser generation of ultrasound
[AD-A138483] 12 p1821 N84-21870
Conceptual experiments in transition to turbulence through combined visualization and hot-wire techniques
[AD-A142193] 19 p3024 N84-29181

WAVE INTERACTION
NT SHOCK WAVE INTERACTION
Considerations of the three-wave interactions
[IPPJ-641] 03 p0444 N84-12915
VLF wave injections from the ground 05 p0634 N84-14173
Wave-particle interactions on relativistic electron beams
[AD-A134270] 07 p1009 N84-16545
On modifications of the Zakharov equation for surface gravity waves
[AD-A135050] 08 p1217 N84-17943
S-I-S mm-wave mixers and detectors
[AD-A134762] 08 p1235 N84-18074
Seasonal climate fluctuations as steady and periodic flow states of a barotropic model of planetary waves 10 p1542 N84-20108
Basic experimental study of the coupling between flow instabilities and incident sound
[NASA-CR-3789] 11 p1728 N84-21275
Observations of VLF transmitter-induced depletions of inner zone electrons
[AD-A137982] 12 p1847 N84-22042
Changes of phase and waves on depressurization of liquids with high specific heat
[MPIS-MITT-77] 15 p2332 N84-25003
An analysis of wave interactions in swept-wing flows
[NASA-CR-173723] 18 p2786 N84-27681
On the Bell-Szekeres solution for colliding electromagnetic waves
[MATHS-RES-176] 19 p3010 N84-29078
The influence of the relativistic character of the electron HF motion on the non-linear wave dynamics in plasmas
[IPPJ-676] 20 p3301 N84-30964
Alternating acoustoelectric current generated by interaction of two waves in acoustic microwaveguide 21 p3380 N84-31449
Cyclotron resonant scattering of energetic electrons by electromagnetic waves in the magnetosphere 22 p3621 N84-32946
Wave propagation in dense geophysical media
[AD-A143213] 22 p3623 N84-32955
Nonlinear interaction of two noncollinear sound waves in a rectangular waveguide
[AD-A144440] 24 p3895 N84-34666
Resonant 3-wave interactions and an application to the 160 minute solar oscillation 24 p3992 N84-35263

WAVE OSCILLATORS
U OSCILLATORS

WAVE PACKETS
A model for chorus associated electrostatic bursts
[NASA-CR-174489] 03 p0432 N84-12832
Toward a new kinetic theory for resonant triads
[AD-A137096] 10 p1571 N84-20297

WAVE PROPAGATION
NT ACOUSTIC PROPAGATION
NT DIFFRACTION PROPAGATION
NT GROUND WAVE PROPAGATION
NT HALOS
NT IONOSPHERIC PROPAGATION
NT LIGHT SCATTERING
NT SCATTER PROPAGATION
NT SHOCK WAVE PROPAGATION
AGARD Bulletin, technical programme, 1984
[AGARD-BUL-83/2] 01 p0002 N84-10010
Evaluation of WES one-dimensional dynamic soil testing procedures
[AD-A130925] 01 p0057 N84-10371
UHF radiowave propagation through forests
[AD-A130399] 01 p0062 N84-10408
Workshop on Research Techniques in Wave Propagation and Scattering
[AD-A130270] 01 p0063 N84-10415
Two-layer model of line-of-sight refractive multipath propagation
[AD-A130474] 01 p0064 N84-10418
Coherent propagation and sum frequency generation into the vacuum ultraviolet
[AD-A130729] 01 p0066 N84-10428
Lecture notes for Bulk and Hourglass Viscosities in Wave Propagation Codes
[DE83-013042] 01 p0068 N84-10445
The effects of atmospheric water vapor absorption on infrared laser propagation in the 5 micrometer band
[AD-A130788] 01 p0087 N84-10566
Microstructural effects on wave propagation in solids
[DE83-012609] 01 p0096 N84-10628
Feasibility of using sonic techniques to estimate in-situ stresses
[DE83-016890] 01 p0097 N84-10634
Ultrasonic reflection from solid halfspaces and from solid plates
[AD-A129886] 01 p0140 N84-10916
Monte Carlo simulation of shock-induced lattice damage
[DE83-015189] 01 p0154 N84-11016
Effects of rigid inclusions on wave propagation
[AD-A131366] 02 p0209 N84-11366
Shocked fluids at high densities and temperatures
[DE83-015901] 02 p0219 N84-11437
Numerical modeling of dynamic material response
[DE83-016233] 02 p0232 N84-11524
Horizontal energy propagation and barotropic instability in a quasi-linear model of the atmosphere 02 p0247 N84-11614
Vortex stability and breakdown 03 p0325 N84-12122
The Performance of Antennas in Their Operational Environment
[AGARD-LS-131] 03 p0363 N84-12367
Scale modelling and full scale measurement techniques with particular reference to antennas in their operational environments 03 p0364 N84-12368
Performance of antennas in plasma 03 p0365 N84-12377
Use of the one-dimensional theory of the filament of flow for the interpretation and synthesis of mufflers in exhaust pipes of internal combustion engines
[REPT-81.4] 03 p0383 N84-12494
Optimization of ultrasonic flaw detection in railroad rail
[PB83-236919] 03 p0386 N84-12518
Radar meteorology in cloud physics and radio wave propagation research
[ESA-TT-806] 03 p0412 N84-12695
On the growth of gravity-capillary waves by wind
[KNMI-WR-83-10] 03 p0412 N84-12698
Double porosity model for acoustic wave propagation in fractured-porous rock
[DE83-017823] 03 p0431 N84-12823
Analytic diffraction corrections to ultrasonic scattering measurements
[DE83-018080] 03 p0431 N84-12825
Multiple spacecraft observations of interplanetary shocks: Characteristics of the upstream ULF turbulence 03 p0470 N84-13097
Air-breakdown limits for microwave-pulse propagation. Part 1. Experiments
[DE83-017832] 04 p0523 N84-13438
Propagation of a radio-frequency pulsed signal over the Earth. The JOLLY programs
[DE84-000109] 04 p0523 N84-13439
Further investigations of the multiple knife-edge attenuation function
[PB83-245043] 04 p0523 N84-13442
Effects of crack closure on ultrasonic transmission
[DE83-018073] 04 p0546 N84-13599
Chemistry of shock compression: A bibliography
[DE84-002192] 05 p0651 N84-14279
XWVG: A waveguide program for trilinear tropospheric ducts. Computer program for calculating the signal levels of EM (Electromagnetic) waves propagating over seawater
[AD-A133667] 05 p0689 N84-14399
Volume integrals associated with the inhomogeneous Helmholtz equation. Part 1: Ellipsoidal region
[NASA-CR-3749] 05 p0689 N84-14525
Volume integrals associated with the inhomegeneous Helmholtz equation. Part 2: Cylindrical region; rectangular region
[NASA-CR-3750] 05 p0689 N84-14526
Wave attenuation in damped periodic structures
[AD-A133736] 05 p0693 N84-14550
Propagation of weakly-nonlinear surface water waves in regions with varying depth and current
[AD-A132593] 05 p0711 N84-14657
Review of calculations of extinction for visible and infrared wavelengths in rain
[AD-A132650] 05 p0747 N84-14906
MSW (magnetostatic wave) variable time-delay techniques
[AD-A133770] 05 p0753 N84-14941
Nonlinear acoustics instabilities in combustion chambers 06 p0802 N84-15230
Asymptotic analysis of numerical wave propagation in finite difference equations
[NASA-CR-175323] 06 p0822 N84-15360
Coherent electromagnetic wave propagation and scattering in random media
[AD-A133601] 06 p0825 N84-15381
Propagating plane harmonic waves through finite length plates of variable thickness using finite element techniques 06 p0860 N84-15601
Propagation of flexural and membrane waves with fluid loaded NASTRAN plate and shell elements 06 p0860 N84-15602
A review of propagation and scattering factors in remote-sensing and ship-tracking by HF radar 06 p0868 N84-15655
Multifrequency scattering for target characterization and identification: A summary of recent results 06 p0870 N84-15663
The effect of turbulent atmosphere on backscattered waves 06 p0870 N84-15664
Wave propagation in porous rock and models for crustal structure 06 p0876 N84-15698
A numerical investigation of the formation of secondary vortices in laboratory-simulated tornadoes 06 p0880 N84-15725
Two stochastic modeling problems in communications and navigation
[AD-A133458] 06 p0905 N84-15873
A study of accretion in compact sources: Disk precession and jet helicity 06 p0929 N84-16038
Urban millimeter wave propagation studies
[AD-A134465] 07 p0993 N84-16439
The IF-77 electromagnetic wave propagation model
[AD-A134504] 07 p0993 N84-16441
Structure and characteristics of heterogeneous detonation
[AD-A134492] 07 p1002 N84-16497
Wave propagation in a thin walled liquid filled initially stressed tube — blood flow
[MEAH-24] 07 p1005 N84-16519
Wave propagation in fluid lines
[MEAH-26] 07 p1005 N84-16521
Nondestructive measurement of bulk residual stresses
[AD-A134600] 07 p1013 N84-16573
Combination of earthquake direction effects
[DE84-001848] 07 p1034 N84-16709
Beat-wave current drive in a magnetized plasma
[DE84-001556] 07 p1077 N84-17003
On the propagation laws of combustion waves in solids (pyrotechnic reactions)
[BLL-TRANS-1098-(7291.7965)] 08 p1123 N84-17300

A new derivation for the rough surface reflection coefficient and for the distribution of sea wave elevations
[AD-A134774] 08 p1145 N84-17453
A diagnostic probe to investigate propagation at millimeter wavelengths
[PB84-104223] 08 p1148 N84-17473
Electron acceleration in the front of intense collisionless shock waves
[PR-813] 08 p1154 N84-17511
Large amplitude waves generated by an explosive mechanism
[MRL-R-905] 08 p1155 N84-17524
Report from the URSI Commission F Symposium on Wave Propagation and Remote Sensing
[FOA-C-30340-E2] 08 p1179 N84-17682
Evaluation of turbulence induced noise in coherent anti-Stokes Raman scattering
[NASA-CR-166544] 08 p1227 N84-18015
Interaction of electromagnetic fields with plasma
[AD-A135173] 08 p1232 N84-18054
Propagation of ELF (extremely low frequencies) waves in the spherical Earth-ionosphere waveguide with transverse and longitudinal variation of properties
[AD-A135890] 09 p1300 N84-18502
On the stability of an infinite swept attachment line boundary layer
[NASA-CR-172300] 10 p1420 N84-19285
Numerical methods for analyzing electromagnetic scattering
[NASA-CR-175423] 10 p1473 N84-19620
Some recent results in wave propagation
[DE84-003107] 10 p1482 N84-19686
The vertical propagation of internal gravity waves in a compressible atmosphere 10 p1538 N84-20080
Ray modeling methods for range dependent ocean environments
[AD-A137202] 10 p1589 N84-20278
SH wave propagation in a laminated composite 11 p1627 N84-20646
UHF (Ultra-High Frequency) propagation measurements
[AD-A137637] 11 p1643 N84-20741
The Lorentz Transformation and the radar Doppler equation
[AD-A137901] 11 p1643 N84-20745
Atmospheric millimeter wave propagation model
[PB84-143494] 11 p1645 N84-20754
An analytical and numerical study of the interaction of rarefaction waves with area changes in ducts. Part 1: Area reductions
[UTIAS-272] 11 p1651 N84-20780
Interaction of aerodynamic noise with laminar boundary layers in supersonic wind tunnels
[NASA-CR-3821] 11 p1651 N84-20781
Transverse mode dynamics in a free electron laser
[AD-A137738] 11 p1662 N84-20846
Waves and circulation driven by oscillatory winds in an idealized ocean basin
[AD-P002650] 11 p1689 N84-21015
Stability of finite difference models containing two boundaries or interfaces
[NASA-CR-172319] 11 p1712 N84-21165
Fractal phase screens
[AD-A137804] 11 p1714 N84-21175
Numerical schemes for a model for nonlinear dispersive waves
[NASA-CR-175416] 11 p1714 N84-21179
Measurement of stress with acoustic waves 11 p1728 N84-21273
Studies of the propagation of elastic waves in fluids and solids
[AD-A137603] 11 p1729 N84-21278
Bibliography and abstracts of papers pertaining to applied mathematics
[AD-A137823] 11 p1750 N84-21420
Influence of anisotropy and viscosity on propagation on waves in multilayer cylinders 12 p1788 N84-21660
Scattering and depolarization of electromagnetic waves-full wave solutions
[AD-A138349] 12 p1807 N84-21782
Air-to-ground HF (High Frequency) propagation prediction model for fast multicircuit computation
[PB84-145961] 12 p1810 N84-21802
Comparison of a simplified version of TRACKER with an analytic solution to a model ray tracing problem
[DE84-007091] 12 p1848 N84-22044
The growth, propagation and decay of global scale Rossby waves during FGGE 12 p1854 N84-22080
Horizontal energy propagation in a baroclinic atmosphere with meridional and zonal structure 12 p1857 N84-22096
Wave dynamics of regular and chaotic rays
[DE84-006061] 12 p1911 N84-22452
Measuring the temperature coefficients of the elastic constants of indium phosphide
[AD-A138454] 12 p1915 N84-22474
Asymptotic models for wave scattering from very rough surfaces 13 p1984 N84-22683
Surface wave propagation over sinusoidally varying topography: Theory and observation
[IOS-159-PT-1] 13 p1991 N84-22922
Surface wave propagation over sinusoidally varying topography: Theory and observation
[IOS-159-PT-2] 13 p1991 N84-22923
Wave attenuation in periodic structures
[AD-A138924] 13 p2001 N84-22984
New formulas for HED (Horizontal Electric Dipole), HMD (Horizontal Magnetic Dipole), VED (Vertical Electric Dipole), and VMD (Vertical Magnetic Dipole) subsurface-to-subsurface propagation
[AD-A139030] 13 p2033 N84-23187
New formulas that extend Norton's farfield elementary dipole equations to the quasi-nearfield range
[AD-A139057] 13 p2034 N84-23188
A new eigenfunction expansion and its application to waveguide acoustics
[AD-A138946] 13 p2040 N84-23236
External excitation of ion cyclotron drift waves in a two-ion species plasma
[IPPJ-665] 13 p2044 N84-23264
A model of radar propagation and detection
[AD-A139531] 14 p2141 N84-23834
Wave engine technology development
[AD-A139175] 14 p2155 N84-23911
An atmospheric millimeter wave propagation model
[AD-A139154] 14 p2176 N84-24033
FINDIF: A software package to create synthetic seismograms by finite differences
[AD-A138904] 14 p2183 N84-24081
Journal of Research of the National Bureau of Standards. Volume 88, Number 6, November-December 1983
[PB84-160605] 14 p2220 N84-24322
Velocities of guided ultrasonic waves in heterogeneous medium
[NASA-TM-77445] 14 p2221 N84-24325
Growth rates of parametric instabilities driven by two pumps
[AD-A139463] 14 p2229 N84-24364
Microtheory of collisionless shock current layers
[DE84-007500] 14 p2229 N84-24366
Soliton propagation in one-dimensional organic conductors
[AD-A139386] 14 p2242 N84-24463
Abstracts of the 20th Annual Meeting: Society of Engineering Science, Incorporated
[AD-A138155] 15 p2306 N84-24833
Transmission loss calculations for systems with antennas close to the ground using a digital data base
[LFD-218] 15 p2318 N84-24914
Characteristics of the Lower Atmosphere Influencing Radio Wave Propagation
[AGARD-CP-346] 15 p2322 N84-24943
D-1 statistical model of tropospheric multipath propagation 15 p2322 N84-24944
Two types of errors made in prediction wave attenuation by rain 15 p2322 N84-24945
Ice depolarization on low-angle 2 GHz satellite downlinks 15 p2323 N84-24946
The effect of a low-altitude nuclear burst on millimeter wave propagation 15 p2323 N84-24947
Measurements of atmospheric effects on satellite links at very low elevation angle 15 p2323 N84-24948
Blue-green propagation through clouds 15 p2323 N84-24949
The effects of meteorology on marine aerosol and optical and in propagation 15 p2323 N84-24950
Spherical propagation models for multipath-propagation predictions 15 p2324 N84-24956
A radio interference model for western Europe 15 p2325 N84-24963
Transhorizon microwave propagation measurements related to surface meteorological parameters 15 p2325 N84-24964
Tropospheric propagation assessment 15 p2326 N84-24965
Distortion of a narrow radio beam in a convective medium 15 p2326 N84-24966
Anomalous propagation and radar coverage through inhomogeneous atmospheres 15 p2326 N84-24967
The prediction of field strength in the frequency range 30 - 1000 MHz 15 p2326 N84-24968
VHF and UHF propagation in the Canadian high Arctic 15 p2326 N84-24969
Considerations pertinent to propagation prediction methods applied to airborne microwave equipment 15 p2326 N84-24970
Measurement of atmospheric transmission over long paths in the infrared spectral region
[AD-A139619] 15 p2368 N84-25209
Measurements of rain attenuation at 12 GHz with the BSE
[NHK-LN-292] 15 p2370 N84-25218
On the breakdown of acceleration waves in radiative magneto-fluids 15 p2402 N84-25415
Dynamic stress analysis of smooth and notched fiber composite flexural specimens
[NASA-TM-83694] 16 p2450 N84-25770
Splitting of condensation shock waves in fluids of high specific heat
[MPIS-MITT-76] 16 p2487 N84-25949
A computational method for viscous incompressible flows
[NASA-TM-85958] 17 p2600 N84-26664
Interaction of air shock waves and porous shield 17 p2645 N84-26922
Regular reflection of strong shock wave by wedge surface 17 p2647 N84-26932
Nonlinear phenomena in electromagnetic and acoustic wave propagation
[AD-A140716] 17 p2653 N84-26969
Modification of the Propagation Measurement File (PMF)
[PB84-169796] 17 p2655 N84-26980
Fresnel zone considerations for reflection and scatter from refractive index irregularities 17 p2684 N84-27091
Shelf waves in presence of currents and stability of boundary currents 17 p2699 N84-27193
Cross-spectral analysis of atmospheric pressure microfluctuations and low-frequency sea level changes 17 p2699 N84-27196
Supercritical regimes in Rossby wave propagation 17 p2700 N84-27197
Descriptive statistical model of earthquake focal radiation and its application in evaluating short-period strong movement 17 p2700 N84-27200
Dependence of velocity on depth determined from travel-time curves of refracted waves in randomly inhomogeneous media 17 p2701 N84-27206
Shot waves in frozen ground 17 p2703 N84-27218
Modeling anisotropic properties of media with oriented fractures 17 p2706 N84-27234
Algorithm for determining coordinates of hypocenters of near earthquakes and seismic wave propagation velocity in layer 17 p2706 N84-27235
The influence of localized precipation-induced D-region ionization enhancements on subionospheric VLF progation 17 p2726 N84-27348
Whistler mode turbulence at Earth's bow shock: Generation via electron beams and ray path integrated amplification 17 p2726 N84-27349
Effects of lateral heterogeneities on the propagation, scattering, and attenuation of the seismic waves and the characterization of the seismic source
[AD-A140595] 17 p2727 N84-27359
Studies of acoustical properties of bulk porous flexible materials
[NASA-CR-173822] 17 p2762 N84-27544
Absorptive surfaces of extended reaction angle of incidence considerations 17 p2763 N84-27547
On the propagation of bending waves in a periodically stiffened panel
[FFA-TN-1984-12] 18 p2853 N84-28119
The influence of stress on the principal polarisation directions of ultrasonic shear waves in textured steel plates
[AERE-R-11078] 18 p2854 N84-28124
Strong earthquake spatial-temporal correlations 18 p2860 N84-28162
Monte Carlo studies of tandem mirror plasmas interacting with waves in the Ion Cyclotron Range of Frequencies
[DE84-008901] 18 p2934 N84-28605
Atmospheric transmittance model for a solar beam propagating between a heliostat and a receiver
[DE84-007960] 18 p2953 N84-28718
Nonlinear wave propagation
[AD-A141098] 19 p3004 N84-29036
Wave propagation from moving singularities and a unified exposition of the linearized theory for aerodynamics and acoustics
[DFVLR-FB-84-17] 19 p3010 N84-29080
Wave propagation in elastic-viscoplastic bodies
[REPT-23] 19 p3034 N84-29242
A stable explicit scheme for the ocean acoustic wave equation
[AD-A141800] 19 p3062 N84-29427
Random field satisfying a linear partial differential equation with random forcing term
[AD-A141886] 19 p3088 N84-29606
Analysis of the influence of nonlinear and dissipative effects in atmospheric plasma
[ISSN-0208-5658] 19 p3106 N84-29732

A study of distributed millimeter-wave isolators
[AD-A142729] 20 p3179 N84-30189
Numerical and analytical studies of steady detonation waves with expansion losses
[AD-A142601] 20 p3184 N84-30232
A theory for cross-coupling in ultrasonic transducer arrays
[DE84-010327] 20 p3189 N84-30259
Development of a high-pressure quasi-isentropic plane wave generating capability
[DE84-011619] 20 p3203 N84-30348
Propagating long waves on oceanic density fronts: An analytic model
[AD-A141915] 20 p3250 N84-30628
A finite element method for treating nearly one way wave propagation
[DE84-010294] 20 p3290 N84-30869
On measuring the acoustic intensity of hydroacoustic sources
[AD-A142484] 20 p3291 N84-30893
Propagation of acoustic waves in partially saturated porous media
[DE84-010536] 20 p3291 N84-30896
Observed current enhancement with propagation of the ETA electron beam in air
[DE84-010558] 20 p3293 N84-30909
Theoretical studies of Elmo Bumpy Torus (EBT)
[DE84-010814] 20 p3303 N84-30978
Linear theory of lower hybrid heating
[DE84-010577] 20 p3303 N84-30979
Realistic modelling of lower hybrid current drive with multiple codes
[DE84-010576] 20 p3304 N84-30982
Feedback in separated flows over symmetric airfoils
[NASA-TM-83758] 21 p3324 N84-31091
On waves in nonadiabatic and nonequilibrium gases
[AD-A141450] 21 p3383 N84-31465
Dynamic characteristic of intense short microwave propagation in an atmosphere
[DE84-002768] 21 p3387 N84-31496
An analytical evaluation of spall suppression of impulsively loaded aluminum panels based on a 1-dimensional stress wave propagation model
[AD-A143173] 21 p3422 N84-31708
A three-dimensional ray method and its application to the study of wave propagation in crustal structure with curved layers 21 p3439 N84-31821
Conditions of filtration burning of porous condensed systems with multiple passage of reaction wave 21 p3483 N84-32076
Propagation of nonlinear compression pulses through granular media 21 p3489 N84-32108
Unified theory and measurements of elastic waves in polycrystalline materials 21 p3489 N84-32110
APC-2: An electron beam propagation code
[DE84-011532] 21 p3494 N84-32144
USSR report: Electronics and electrical engineering
[JPRS-UEE-84-006] 22 p3565 N84-32580
Atmospheric propagation effects on infrared radars
[AD-A143196] 22 p3576 N84-32651
Wave propagation in dense geophysical media
[AD-A143213] 22 p3623 N84-32955
On accuracy conditions for the numerical computation of waves
[NASA-CR-172433] 22 p3645 N84-33111
Numerical diffraction by a uniform grid
[DE84-012861] 22 p3646 N84-33121
Coupling of Rayleigh-like waves with zero sound modes in normal He-3
[DE84-010519] 22 p3653 N84-33153
Propagation and absorption of electromagnetic waves in fully relativistic plasmas
[DE84-013627] 22 p3660 N84-33204
Electromagnetic wave theory and remote sensing 22 p3683 N84-33350
Wiener-Hopf technique for the equation U(alpha) = K(alpha) L(alpha) + D(alpha) in the case of function K(alpha) with zeroes
[ISSN-0208-5658] 23 p3729 N84-33632
Problems of diffraction and propagation of waves (selected articles)
[AD-A143912] 23 p3731 N84-33650
Use of methods of transmission line electrical theories to analyze one-dimensional dynamic problems of consolidation theory
[ISSN-0208-5658] 23 p3734 N84-33662
Modeling of elastic wave propagation by finite difference and finite element methods — seismology 23 p3777 N84-33944
Solutions of nonlinear equations of magneto-ionic theory
[ISSN-0208-5688] 23 p3794 N84-34059
Applications of teleseismic body waves to shallow Earth structure 23 p3795 N84-34064
Study of the system of middle atmosphere-ionosphere using remote-sensing data
[NASA-TM-77764] 23 p3797 N84-34074
Broadband guided-wave optical frequency translator using an electro-optical Bragg array
[AD-D011184] 23 p3825 N84-34260
Collisionless shock waves in the solar terrestrial environment 23 p3837 N84-34342
Nonlinear interaction of two noncollinear sound waves in a rectangular waveguide
[AD-A144440] 24 p3895 N84-34666
X33 cut quartz for temperature compensated saw devices
[AD-D011200] 24 p3903 N84-34713
Ultrasonic velocity measurement using phase-slope cross-correlation methods
[NASA-TM-83794] 24 p3911 N84-34769
Crustal shear velocity modelling in Nevada: A study of broadband multi-mode surface waves 24 p3918 N84-34802
Large-scale numerical analysis of three-dimensional seismic waves
[AD-A144610] 24 p3920 N84-34814
Non-existence of global solutions of partial of f(u sub t) with respect to t in two and three space dimensions
[AD-A144692] 24 p3952 N84-35030
Elastic wave propagation in a periodically trilaminated composite 24 p3957 N84-35058

WAVE RADIATION
U ELECTROMAGNETIC RADIATION

WAVE REFLECTION
NT MACH REFLECTION
The effect of noisy reflection data on an inverse method for determining the structure of a layered ocean bottom
[AD-A131976] 03 p0430 N84-12820
Reflection and transmission of electromagnetic waves at a rough interface between two different media
[PB83-217588] 06 p0826 N84-15389
Design and verification of a cloud field optical simulator
[NASA-CR-173274] 07 p1035 N84-16717
Interaction of weak shock waves and discrete gas inhomogeneities 08 p1155 N84-17517
Characterization and scattering of bounded ultrasonic beams
[AD-A138491] 12 p1899 N84-22369
Measuring roughness of ultrasmooth surfaces by reflectometric method 13 p1974 N84-22807
Optmization of breakwater lengths in relation to wave penetration
[PUBL-312] 15 p2360 N84-25160
Reflection, scattering, and absorption of acoustic waves by rough surfaces
[AD-A140523] 16 p2555 N84-26390
Evidence for parallel elongated structures in the mesosphere 17 p2689 N84-27122
Nonstationary oblique-shock-wave reflections in air
[UTIAS-270] 21 p3399 N84-31562
Reflection of electromagnetic waves from inhomogeneous media 22 p3566 N84-32586

WAVE SCATTERING
NT ACOUSTIC SCATTERING
NT ATMOSPHERIC SCATTERING
NT ELECTROMAGNETIC SCATTERING
NT HALOS
NT LIGHT SCATTERING
NT MICROWAVE SCATTERING
NT MIE SCATTERING
NT RAMAN SPECTRA
NT RAYLEIGH SCATTERING
NT REVERBERATION
NT THOMSON SCATTERING
NT TROPOSPHERIC SCATTERING
NT X RAY SCATTERING
Workshop on Research Techniques in Wave Propagation and Scattering
[AD-A130270] 01 p0063 N84-10415
Development of ultrasonic modeling techniques for the study of crustal inhomogeneities
[AD-A134501] 08 p1187 N84-17738
Maximum entropy reconstruction of a volume anomaly from pulse scatter data
[DE84-002463] 08 p1237 N84-18084
Fractal phase screens
[AD-A137804] 11 p1714 N84-21175
Asymptotic models for wave scattering from very rough surfaces 13 p1984 N84-22883
Resonant scattering of waves in random particulate composites 15 p2310 N84-24861
Changes of phase and waves on depressurization of liquids with high specific heat
[MPIS-MITT-77] 15 p2332 N84-25003
Possibilities of studying inelastic properties and characteristics of medium inhomogeneity using spectra of scattered waves 17 p2706 N84-27230
Possibility of extending Kirchhoff's approximation to problems of wave diffraction by transparent nonhomogeneous bodies 18 p2822 N84-27920
The stability and dynamics of elastic structures and fluid flows
[AD-A141206] 18 p2837 N84-28006
Iterative coupling of partitioned clusters in the scattered-wave molecular-orbital method
[AD-A141522] 19 p3101 N84-29697
Application of elastic wave scattering theory to the detection and characterization of flaws in structural materials
[DE84-013729] 22 p3607 N84-32852

WAVEFORMS
NT PULSE AMPLITUDE
NT PULSE DURATION
Radar waveform synthesis for target identification
[AD-A130363] 01 p0063 N84-10412
Distributed detection of signal waveforms in additive Gaussian observation noise
[AD-A131016] 01 p0066 N84-10434
New control system for the SLAC accelerator klystrons for SLC
[DE83-012706] 01 p0073 N84-10480
Subnanosecond-rise-time, low-impedance pulse generator
[DE83-013793] 01 p0074 N84-10485
Waveform inversion of mantle Love waves: The born seismogram approach
[NASA-CR-174483] 02 p0248 N84-11622
The effects of channel tortuosity on electromagnetic radiations from lightning return strokes 03 p0359 N84-12335
Transient waveform synthesis for radar target discrimination 05 p0664 N84-14366
A study of a class of detection waveforms having nearly ideal range-Doppler ambiguity properties
[AD-A132597] 05 p0689 N84-14401
Interpretation of near-source ground motion and implications 06 p0876 N84-15697
A catalogue of spreading modulation spectra
[AD-A134850] 08 p1145 N84-17454
Transient current density waveforms on a perfectly conducting sphere
[AD-A135862] 09 p1300 N84-18500
An objective waveform comparison technique
[AD-A136130] 09 p1315 N84-18596
On the estimation of spectral parameters using burst waveforms
[AD-A137932] 11 p1644 N84-20746
Flexible automated waveform recorder data acquisition program
[DE84-005553] 11 p1709 N84-21141
Target super-resolution compensation for coherent airborne radar utilizing spread spectrum waveforms
[AD-A138545] 13 p1982 N84-22866
Disturbance minimization techniques for linear, time-invariant dynamical systems
[AD-A138915] 13 p2033 N84-23185
Estimation of channel capacity of the time variable multipath channel
[LFD-208] 15 p2318 N84-24912
Digital image processing and analysis 16 p2490 N84-25974
Synthesis of arbitrary broadband signals for a parametric array
[AD-D011021] 19 p3100 N84-29691
Dual aperture dipole magnet with second harmonic component
[DE84-011305] 20 p3285 N84-30856
Signal waveform detector using synthetic FM demodulation
[AD-D011055] 22 p3572 N84-32618
Low frequency ac waveform generator
[DE84-014310] 23 p3743 N84-33726
An analysis of coherent digital receivers in a jamming environment
[AD-A144441] 24 p3895 N84-34667

WAVEGUIDE ANTENNAS
NT HORN ANTENNAS
Approximate formulas for the far fields and gain of open-ended rectangular waveguide
[PB83-233999] 02 p0212 N84-11384
Slotted waveguide array antennas for spaceborne SAR applications 07 p0987 N84-16397
Far field radiation patterns from open ended oversized circular waveguides and identification of multimode outputs of gyrotrons
[IPF-83-5] 12 p1911 N84-22454
Development of a slotted waveguide array panel for SAR antenna: Electrical design and testing
[IEC-MO-80/11] 23 p3732 N84-33656

WAVEGUIDE FILTERS
Computer-aided design of millimeter wave e-plane filters
[AD-A141016] 18 p2833 N84-27987

WAVEGUIDE LASERS
A low loss quasioptical cavity for a two-stage Free Electron Laser (FEL)
[AD-A133321] 06 p0850 N84-15541
Investigation of cold cathode and RF excitation for long life CO2 waveguide lasers
[AD-A136088] 09 p1323 N84-18643
Determining optical characteristics of stratospheric aerosol by multifrequency laser sounding method
11 p1670 N84-20900
Study of a tunable CO2/N2O medium pressure waveguide laser
[AD-A136076] 12 p1820 N84-21883
Proof of principle experiment for a coherent CO2 waveguide laser array
[AD-A139121] 14 p2150 N84-23881
Selfpulsing, hysteresis and chaos in a standing wave laser 14 p2239 N84-24439
Uniform magnetic-field-induced free-electron laser in a waveguide
[AD-A141195] 18 p2846 N84-26073

WAVEGUIDE WINDOWS
Recent advances in multispectral sensing of ocean surface temperature from space
17 p2717 N84-27297

WAVEGUIDES
NT BEAM WAVEGUIDES
NT CIRCULAR WAVEGUIDES
NT OPTICAL WAVEGUIDES
NT PLASMAGUIDES
NT RECTANGULAR WAVEGUIDES
Performance of a new 916 MHz direct contact applicator with reduced leakage, a detailed analysis
[PB83-226621] 01 p0114 N84-10742
Microwave measurements of azimuthal asymmetries in accelerating fields of disk-loaded waveguides
[DE83-012705] 02 p0210 N84-11373
Finite-element approach to guided wave problems
[AD-A131623] 02 p0213 N84-11396
Guidance of electromagnetic waves in the ionosphere and magnetosphere
[IFSI-82-15] 03 p0363 N84-12361
External wave-launcher study
[DE84-001124] 04 p0523 N84-13441
Stimulated Cerenkov radiation beam monitor
[AD-A132617] 05 p0744 N84-14889
Multifrequency synthetic aperture radar antenna comparison study — for remote sensing
[NASA-CR-171736] 08 p1143 N84-17434
Circular waveguide systems for electron-cyclotron-resonant heating of the tandem mirror experiment-upgrade
[DE84-003739] 08 p1233 N84-18062
Dielectrically loaded corrugated waveguide: Variational analysis of a nonstandard eigenproblem
[REPT-S-131] 09 p1305 N84-18528
Design and analysis of a generalized class of fin-line filters
[AD-A136050] 09 p1309 N84-18558
Effects of long-term low-level radiofrequency radiation exposure on rats. Volume 3: SAR (Specific Absorption Rate) in rats exposed in 2450-MHz circularly polarized waveguide
[AD-A135376] 09 p1361 N84-18890
Variational methods for nonstandard eigenvalue problems in waveguide and resonator analysis
[REPT-S-128] 09 p1379 N84-19012
Evaluation of NRL glass for fiber optics, phase 2
[AD-A136017] 09 p1390 N84-19076
ICRF waveguide couplers — tokamak devices
[DE84-004042] 09 p1392 N84-19092
Infrared monitoring of gyrotron windows
[DE84-004442] 10 p1499 N84-19799
Experience with development of sealed linear waveguide electron accelerators 13 p1969 N84-22780
A new eigenfunction expansion and its application to waveguide acoustics
[AD-A138946] 13 p2040 N84-23236
Lumped element and leaky-wave antennas for millimeter waves
[AD-A139512] 14 p2140 N84-23833
Proof of principle experiment for a coherent CO2 waveguide laser array
[AD-A139121] 14 p2150 N84-23881
Velocities of guided ultrasonic waves in heterogeneous medium
[NASA-TM-77445] 14 p2221 N84-24325
Millimeter wave transmission systems and related devices
[NASA-CR-173515] 15 p2319 N84-24916
K-band latching switches
[NASA-CR-168253] 15 p2327 N84-24973
Mathematical modelling of waveguiding techniques and electron transport, volume 2
[AD-A139604] 15 p2391 N84-25350
Mathematical modelling of waveguiding techniques and electron transport, volume 1
[AD-A139603] 15 p2397 N84-25382
The exact surface impedance approach to problems of diffraction in open waveguides 16 p2478 N84-25888
Electrodynamic analysis of active wave-guide slot line based on GaAs 17 p2631 N84-26830
Concerning Q of a cylindrical dielectric resonator screened by a waveguide 17 p2631 N84-26832
Phase inverter based on dielectric stripline waveguide with mobile metal plate 17 p2638 N84-26879
Gyrotron backward-wave oscillator
[AD-A140908] 17 p2664 N84-26993
Preliminary evaluation of waveguide vibration absorbers
[AD-A140743] 17 p2680 N84-27070
Computer-aided design of millimeter wave e-plane filters
[AD-A141016] 18 p2833 N84-27987
Green's function for a dielectric wave-guide filled with a dispersion medium
[ISSN-0208-5658] 19 p3003 N84-29032
Analysis of nonuniform dielectric waveguides for millimeter-wave applications
[AD-A141406] 19 p3013 N84-29098
Microwave measurement test results of circular waveguide components for Electron Cyclotron Resonant Heating (ECRH) of the Tandem Mirror Experiment-Upgrade (TMX-U)
[DE84-009538] 19 p3108 N84-29746
Wave attenuation and mode dispersion in a waveguide coated with lossy dielectric material
[NASA-CR-173820] 20 p3172 N84-30145
Invention of a tunable damper for use with an acoustic waveguide in hostile environments
[DE84-013109] 20 p3292 N84-30897
Dielectric-grating band-pass filters
21 p3379 N84-31442
Waveguide characteristics of resonators with arbitrary distribution of dielectric permittivity
21 p3380 N84-31451
Waveguide CO2 laser with 7.5 W power rating
21 p3487 N84-32098
Intermodulation in protective semiconductor microwave devices 22 p3571 N84-32612
Numerical methods for analyzing electromagnetic scattering
[NASA-CR-173916] 22 p3575 N84-32645
Machined two-piece microwave waveguide
[AD-D011088] 22 p3587 N84-32715
Stability of laminar electron layers
[AD-A143788] 23 p3822 N84-34235
Green's function for a plane waveguide formulated with electronic plasma
[ISSN-0208-5658] 23 p3826 N84-34265
A 360-degree scanning antenna with cylindrical array of slotted waveguides
[AD-D011189] 24 p3893 N84-34653
The effect of fluids on waveguides below cutoff penetrations as related to electromagnetic shielding effectiveness
[AD-A144685] 24 p3896 N84-34670
Slotline reverse-phased hybrid ring coupler
[AD-D011182] 24 p3897 N84-34673

WAVELENGTH DIVISION MULTIPLEXING
Optical multiplexers and demultiplexers for optical wavelength-division multiplex transmission systems
[BMFT-FB-T-83-167] 05 p0748 N84-14912
Fiber optics for the future - wavelength division multiplexing
[AD-P003579] 21 p3339 N84-31184
Definition, analysis and development of an optical data distribution network for integrated avionics and control systems. Part 2: Component development and system integration
[NASA-CR-172429] 22 p3657 N84-33181

WAVELENGTHS
The local wavenumber spectrum and its applications in turbulence and noise 05 p0672 N84-14417
An experimental study of the response of a nearly isotropic grid turbulence to a spectrally local disturbance and an investigation of the coherent structures associated with a turbulent spot in a laminar boundary layer
05 p0678 N84-14459
Scintillators and waveshifters for fast scintillator-WSB calorimetry 06 p0913 N84-15929
Long wavelength limit of interchange instabilities
[AD-A138943] 13 p2011 N84-23047
Long wavelength limit of the current convective instability
[AD-A139172] 14 p2228 N84-24358
Is a partially filled cylindrical resonator operating on the TE sub 011 mode desirable for the determination of permittivity?
[REPT-S-148] 15 p2320 N84-24928
Reduced to pole long-wavelength magnetic anomalies of Africa and Europe 15 p2355 N84-25132
Long-wavelength magnetic and gravity anomaly correlations of Africa and Europe
15 p2356 N84-25135
Determination of vertical and horizontal wavelengths of gravity waves 17 p2686 N84-27119
Wavelength scaling of the two plasmon decay and stimulated Raman scattering instabilities
[DE84-008934] 18 p2847 N84-28077
Spectrum analyzer and analysis method for measuring power and wavelength of electromagnetic radiation
[AD-D011044] 19 p3027 N84-29198
Observation of scattered light between Omega-2 and 3/2-Omega in short wavelength laser produced plasmas
[DE84-012533] 20 p3306 N84-31001

WEAK ENERGY INTERACTIONS
NT WEAK INTERACTIONS (FIELD THEORY)
Low energy neutrino physics
[DE84-002656] 08 p1230 N84-18037
Development and application of low energy X-ray and electron physics
[AD-A140480] 16 p2556 N84-26397
Low-energy collisions excited atoms
[AD-A144192] 24 p3961 N84-35087

WEAK INTERACTIONS (FIELD THEORY)
Status of P714 - LAPDOG
[DE83-013613] 01 p0164 N84-11079
Physics with polarized beams in e+e(-) colliders
[DE83-016441] 04 p0602 N84-13976
Investigation of the structure of photosynthetic reaction centers
[DE84-012475] 20 p3150 N84-30005
Weak corrections to the e+e-yields mu+mu- asymmetry
[DO-TH-83-16] 20 p3297 N84-30939
Electroweak interaction parameters
[DE84-012910] 21 p3496 N84-32159
Testing the six quark sheme
[PREPRINT-402] 23 p3823 N84-34247

WEAPON SYSTEM MANAGEMENT
Reliability growth programs of major weapon systems in the aeronautical systems division
[AD-A134380] 07 p1013 N84-16571
Directed energy technology working group report IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A137332] 10 p1504 N84-19630
Operational software technology working group report IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A137335] 10 p1504 N84-19632

WEAPON SYSTEMS
NT LASER WEAPONS
NT MISSILE SYSTEMS
The cost growth problem: A realistic diagnosis and solution
[AD-A131082] 01 p0159 N84-11049
Hypervelocity missile: Based on the concept of aircraft/missile integration for maximum firepower
03 p0315 N84-12058
F-16 Penguin anti-ship missile integration
03 p0315 N84-12059
An overview of aerodynamic research and technology requirements as related to some military needs
[NASA-TM-85691] 04 p0477 N84-13138
Department of Defense computer technology. A report to Congress
[AD-A132899] 05 p0720 N84-14716
USERSIN: An interactive user-interface for FORTRAN SIN
[MRL-R-877] 05 p0721 N84-14728
Advanced Concepts for Avionics/Weapon System Design, Development and Integration
[AGARD-CP-343] 06 p0768 N84-15034
System architecture: Key to future avionics capabilities 06 p0768 N84-15035
Tactical requirements impact on avionics/weapon system design 06 p0768 N84-15036
Operational readiness and its impact on fighter avionics system design 06 p0768 N84-15037
Avionics conc t evaluation at the force level
06 p0769 N84-15038
Avionics/crew station integration
06 p0769 N84-15042
Guidelines and criteria for the functional integration of avionic systems with crew members in command
06 p0770 N84-15044
Navy's advanced aircraft armament system program concept objectives 06 p0770 N84-15045
Advanced F/A-18 avionics 06 p0770 N84-15048
A video bus for weapon system integration
06 p0771 N84-15051

First level integrated maintenance in weapons systems 06 p0771 N84-15054
Critical factors and operational research in tactical fighter avionic system development 06 p0773 N84-15062
Concept of a fighter aircraft weapon delivery system 06 p0773 N84-15064
Design and verification of electromagnetic compatibility in airborne weapons systems 06 p0773 N84-15066
Methods for developing the navigation and weapon systems of the Mirage 2000 06 p0774 N84-15068
Concepts for avionic and weapon integration facilities 06 p0774 N84-15070
Hardware-in-the-loop simulation techniques used in the development of the Sea Harrier avionic system 06 p0774 N84-15071
Simulation requirements to support the development of a fault tolerant avionic system 06 p0774 N84-15072
Achievement of electromagnetic compatibility in weapon systems — ships 08 p1142 N84-17430
Management of risk and uncertainty in systems acquisition: Proceedings of the 1983 Defense Risk and Uncertainty Workshop
[AD-A136230] 09 p1397 N84-19124
System engineering management guide
[AD-A136020] 09 p1398 N84-19129
IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study bibliography
[AD-A137327] 10 p1503 N84-19825
R and M (Reliability and Maintainability) parameter analysis document IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A137328] 10 p1503 N84-19826
Cabling and connectors technology working group report IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A137330] 10 p1504 N84-19828
Fiber optics technology working group report IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study. Part 1: Executive summary
[AD-A137333] 10 p1504 N84-19831
Electronic packaging and interconnect technology working group report IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A137336] 10 p1504 N84-19833
Technical information support for survivability 10 p1508 N84-19868
Aircraft survivability 10 p1508 N84-19869
Materials implications of advanced thermal and kinetic energy threats 10 p1508 N84-19872
A review of major issues relating to human-machine integration in the development of military systems
[AD-A136739] 10 p1554 N84-20184
VHSIC technology working group report (IDA/OSD R&M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A137720] 11 p1646 N84-20766
A summary of Proceedings of the Department of Defense Robotics Applications Workshop, volume 1 (exclusive of presentations)
[AD-A137941] 11 p1711 N84-21157
AGARD highlights
[AGARD-HIGHLIGHTS-83/1] 12 p1763 N84-21493
Exhaust plume induced fluctuations in the index of refraction at optical wavelengths 13 p1941 N84-22624
Multi-sensor fusion, communications and information warfare
[AD-P002805] 13 p1980 N84-22855
DECISION TECHNOLOGY: The catalyst for acquisition improvement
[AD-P002755] 13 p2051 N84-23302
Computer Generated Acquisition Document System (CGADS)
[AD-P002784] 13 p2055 N84-23331
An automated airframe production cost model
[AD-P002787] 13 p2056 N84-23334
Improved management of support resources
[AD-P002808] 13 p2059 N84-23354
Quality assurance - Air Force Logistics Command
[AD-P002816] 13 p2060 N84-23361
Selection of multiple sources in weapon systems acquisition
[AD-P002837] 13 p2063 N84-23382
DARPA (Defense Advanced Research Projects Agency) air vehicles technology office technical task order contract
[AD-A138887] 14 p2105 N84-23625
Electronics in weapon systems
[MBB-UA-768-83-O] 14 p2143 N84-23850
Workshop on Arms Control in Space
[LC-84-601064] 14 p2248 N84-24505
Human factors in weapon systems
[FOA-A-56006-H2] 15 p2384 N84-25297
Design and manufacturing practices to minimize corrosion in aircraft 16 p2435 N84-25620
System concepts for helicopter air-to-air combat
[SNIAS-832-210-102] 16 p2448 N84-25705
Unified database development program
[AD-A140309] 16 p2567 N84-26471
Optical effects of F-16 Canopy-HUD (Head-Up Display) integration
[AD-P003222] 17 p2595 N84-26635
Detonation parameters for Australian high-explosives composition
[MRL-R-822] 17 p2628 N84-26812
A parametric analysis of HELSTAR
[AD-A141143] 18 p2846 N84-28071
Wavelength selection for a ground based free electron laser weapon system
[AD-A141157] 18 p2846 N84-28072
The assessment of nonionizing radiation hazards
[AD-P003294] 18 p2908 N84-28444
Relationship between crewmember characteristics and tank crew performance
[AD-P003355] 18 p2912 N84-28471
Competition as an acquisition strategy: Impact of competitive research and development on procurement costs
[AD-A141313] 18 p2944 N84-28667
The Enforcer aircraft program: A lower-cost alternative weapon system
[AD-A141564] 19 p2955 N84-28728
Izvestiya assails U.S. military space plans 19 p2978 N84-28877
U. S. ASAT program viewed as element of space militarization policy 19 p2978 N84-28878
Further commentary on U. S. ASAT program 19 p2978 N84-28879
F/A-18 AN/APG-65 radar case study report (IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A142103] 19 p3007 N84-29057
AN/TPQ-36 and AN/TPQ-37 firefinder radars case study report (IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Research and Maintainability) study
[AD-A142104] 19 p3007 N84-29058
R and M (Reliability and Maintainability) program review elements document (IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A142073] 20 p3199 N84-30322
Improving system affordability
[AD-A142387] 20 p3318 N84-31062
Standards and integrated avionic digital system architecture
[AD-P003561] 21 p3336 N84-31166
Elements for successful implementation of computing standards
[AD-P003566] 21 p3336 N84-31171
Westinghouse uses USAF-developed standards
[AD-P003572] 21 p3338 N84-31177
MIL-PRIME Program System
[AD-P003576] 21 p3338 N84-31181
MATE standardization
[AD-P003587] 21 p3340 N84-31192
Proceedings of the 2nd AFSC (Air Force Systems Command) Avionics Standardization Conference. Volume 6: Tutorial: MIL-STD-1679 weapon system software development
[AD-A142781] 21 p3342 N84-31204
Reverse engineering of the multiple launch rocket system. Human factors, manpower, personnel, and training in the weapons system acquisition process
[AD-A142849] 21 p3349 N84-31247
VHSIC (Very High Speed Integrated Circuits) for training systems
[AD-P003484] 21 p3513 N84-32251
A probabilistic model for predicting the duration of levels of electromagnetic transmission in falling snow: Environmental research papers
[AD-A143318] 22 p3577 N84-32655
An evaluation of two reliability and maintainability information systems
[AD-A143438] 22 p3674 N84-33290
Flight Test Techniques
[AGARD-CP-373] 24 p3847 N84-34396
Flight test techniques employed in the Nimrod MR MK 2 weapon system performance trials 24 p3849 N84-34410

WEAPONS

NT ARTILLERY
NT FUSION WEAPONS
NT GUNS (ORDNANCE)
NT LASER WEAPONS
NT MINES (ORDNANCE)
NT NUCLEAR WEAPONS
NT RIFLES
NT SPACE WEAPONS
NT WARHEADS
A combinatorial geometry computer description of the M48A1 Chaparral missile system
[AD-A137262] 11 p1622 N84-20615
US Army Test and Evaluation Command test operations procedure. Determination of range danger areas
[AD-A139813] 15 p2270 N84-24629
Engineering aids for the design of survivable defense communications transmission capability
[AD-A140755] 17 p2653 N84-26970
Infrared measurements of vehicles and weapons
[AD-A141177] 18 p2932 N84-28592
Simulated 3-dimensional computer graphics training display for air weapons controllers. Volume 2: Users guide
[AD-A141336] 19 p3075 N84-29510
Simulated 3-dimensional computer graphics training display for air weapons controllers, volume 1
[AD-A141347] 19 p3075 N84-29511
Data base management of software development
[AD-P003486] 21 p3513 N84-32253
Flight testing and real time data processing for development and integration of weapon systems 24 p3850 N84-34415

WEAPONS DELIVERY

Bank-to-Turn cruise missile terminal guidance and control law comparison
[AD-A132595] 05 p0629 N84-14136
Tactical requirements impact on avionics/weapon system design 06 p0768 N84-15036
The lock-on-before-launch weapon delivery and display/control consideration 06 p0772 N84-15058
Computer aided construction of ground attack mission profiles over European terrain 06 p0772 N84-15060
AFTI/F-16: An integrated system approach to combat automation 06 p0773 N84-15063
Concept of a fighter aircraft weapon delivery system 06 p0773 N84-15064
Hardware-in-the-loop simulation techniques used in the development of the Sea Harrier avionic system 06 p0774 N84-15071

WEAPONS DEVELOPMENT

Defense, energy, and basic research at the Los Alamos National Laboratory
[DE83-015241] 07 p1094 N84-17116
Electronics in weapon systems
[MBB-UA-768-83-O] 14 p2143 N84-23850
Advanced Technology for SAM Systems Analysis Synthesis and Simulation
[AGARD-LS-135] 21 p3350 N84-31248
Advanced technology for SAM systems analysis, synthesis and simulation 21 p3350 N84-31249
Method for designing future weapons systems: Example of the very short distance ground-air systems 21 p3350 N84-31250

WEAPONS INDUSTRY

Selection of multiple sources in weapon systems acquisition
[AD-P002837] 13 p2063 N84-23382
Contribution of the industry to a better adaptation of helicopters to military requirements
[SNIAS-841-210-102] 23 p3687 N84-33367

WEAR

X-ray wear metal monitor
[AD-A131251] 01 p0012 N84-10076
Prediction of erosive wear by solid particles in a turbulent curved-channel flow
[DE83-012896] 01 p0081 N84-10524
Mechanisms of wear in single and two-phase materials
[DE83-014651] 01 p0091 N84-10582
Effect of environment and materials properties on the friction and wear behavior of precious metal electrical contact alloy couples
[DE83-010403] 02 p0215 N84-11409
Prediction of hydraulic pump failures through wear debris analysis
[AD-A131386] 02 p0229 N84-11503
Surface contact wear and abrasive wear in lubricated sliding mechanisms 04 p0543 N84-13573
The influence of surface roughness on the transfer and wear of polymers
[AD-A133527] 06 p0810 N84-15275
A miniature tilting pad gas lubricated bearing 06 p0819 N84-15340
Microstructures of stainless steels exhibiting reduced friction and wear after implantation with Ti and C
[DE84-002252] 07 p0975 N84-16318
The use of ion implantation for materials processing
[AD-A134457] 07 p1072 N84-16963
Friction and wear behavior of aluminum and composite airplane skins
[NASA-TP-2262] 08 p1103 N84-17175

Tribological characteristics of gold films deposited on metals by ion plating and vapor deposition
[NASA-TM-83572] 08 p1130 N84-17352
Friction and wear reduction of 440C stainless steel by ion implantation
[DE84-003255] 08 p1133 N84-17371
Aspects of the grinding process
[CSIR-TRANS-1694] 08 p1140 N84-17416
Ball-on-block impact-spalling wear test and results on several iron alloys
[PB84-115833] 09 p1319 N84-18615
Ceramic wear in indentation and sliding
[NASA-TM-83585] 10 p1485 N84-19566
Mechanical contact induced transformation from the amorphous to the crystalline state in metallic glass
[NASA-TM-83583] 11 p1632 N84-20673
Frictional and morphological properties of Au-MoS2 films sputtered from a compact target
[NASA-TM-83604] 11 p1684 N84-20858
Influence of the base metal on the wear-resistance of high-strength cast iron
[BLL-M-35504-(5828.4)] 12 p1796 N84-21712
Characterization and measurement of polymer wear
[NASA-TM-83628] 12 p1800 N84-21739
Measurements of elastohydrodynamic film thickness, wear and tempering behavior of high pressure oxygen turbopump bearings
[NASA-CR-171008] 13 p1997 N84-22960
Wear damage to materials — tribology
14 p2126 N84-23747
Tribology in the 80's. Volume 1: Sessions 1 to 4
[NASA-CP-2300-VOL-1] 14 p2152 N84-23891
Status and direction of tribology as a science in the 80's. Understanding and prediction
14 p2152 N84-23892
Nature of the surface and its effect on solid-state interactions 14 p2152 N84-23894
Importance of properties of solids to friction and wear behaviour 14 p2153 N84-23895
Metallic adhesion and bonding
14 p2153 N84-23897
The strength of the metal. Aluminum oxide interface
14 p2153 N84-23898
Microstructures associated with wear
14 p2153 N84-23901
Structures and properties of polymers important to their wear behavior 14 p2154 N84-23902
Composites for increased wear resistance: Current achievements and future prospects
14 p2154 N84-23904
Status of new direction of liquid lubricants
14 p2154 N84-23905
Low wear partially fluorinated polyimides
[NASA-TM-83629] 15 p2301 N84-24806
Spherical lapping velocities
[DE84-005734] 15 p2344 N84-25070
Effect of substrate chemical pretreatment on the tribological properties of graphite films
[NASA-TM-83574] 16 p2470 N84-25831
Estimation of wear rate during selective mass transfer
17 p2642 N84-26903
Proceedings of the 5th Symposium on applied surface analysis
[AD-A140744] 17 p2768 N84-27576
Interaction of sulfuric acid corrosion and mechanical wear of iron
[NASA-TM-83717] 18 p2813 N84-27857
Evaluation of two polyimides and of an improved liner retention design for self-lubricating bushings
[NASA-TM-83719] 18 p2817 N84-27887
Friction and wear characteristics of molecular compound classes from lubricating base oils. Part 1: Separation and chemical characterization
[PB84-167741] 18 p2820 N84-27904
Abrasive wear of steel during sliding or rolling
[BLL-CE-TRANS-8003-(9022.09)]
19 p2991 N84-28956
Properties of ferrites important to their friction and wear behavior
[NASA-TM-83718] 19 p2997 N84-28994
Effects of wear metal on lubricant deposition
[AD-A142027] 19 p2999 N84-29008
Wear behaviour of steel under the action of granular interfacial minerals
[BLL-CE-TRANS-8002-(9022.09)]
21 p3363 N84-31336
Transfer during sliding wear of selected metal systems
21 p3364 N84-31341
Investigation of role of subsurface zones in wear of materials
[DE84-012752] 21 p3368 N84-31365
Observations on the sliding wear of ceramics
[DE84-012344] 21 p3372 N84-31395
Lubrication during cutting: Wear and friction
[CETIM-13-Y-322] 21 p3414 N84-31653
Method for the particle size independent spectrometric determination of metal particles in lubricating oils and hydraulic fluids
[AD-D011121] 22 p3545 N84-32445
Microstructure and surface chemistry of amorphous alloys important to their friction and wear behavior
[NASA-TM-83762] 22 p3555 N84-32506
Microstructure, mechanical properties and two-body abrasive wear resistance of an Fe-3Cr-C based ultra-high strength steel
[DE84-014605] 22 p3556 N84-32520
Friction and wear studies of liquid metal wetted, metallic fiber brushes
[AD-A143473] 22 p3604 N84-32831
Engine wear with methanol fuel in a nitrogen-free environment
[AD-A143530] 22 p3604 N84-32833
Detection of damage in hydraulic components by acoustic emission techniques
[AD-A143262] 22 p3607 N84-32850
Surface property modification of silicon
[NASA-CR-173952] 23 p3788 N84-34023

WEAR INHIBITORS

A review of the use of wear-resistant coatings in the cutting-tool industry
[NASA-TM-83512] 02 p0199 N84-11295
The influence of surface roughness on the transfer and wear of polymers
[AD-A133527] 06 p0810 N84-15275
Siloxane modifiers for epoxy resins
[AD-A136782] 10 p1467 N84-19582
Future direction of research in wear and wear resistant materials. Status of understanding
14 p2153 N84-23900
Antiwear additive mechanicsms in sliding contacts
14 p2154 N84-23906
Sputtering as a technique for applying tribological coatings 15 p2342 N84-25059
Utilization of selective mass transfer for increasing performance capability of hinges subject to heavy loads
17 p2641 N84-26898
Zero wear (selective mass transfer): New step toward higher wear resistance of machine parts
17 p2642 N84-26904
Swedish research in high-temperature ceramics, superalloys 22 p3651 N84-33142

WEAR TESTS

Wear during rubbing of a sintered metal powder body
[AD-A132354] 04 p0544 N84-13584
Engine-transmission angular-contact ball thrust bearing endurance tests
[AD-A136264] 09 p1325 N84-18655
Friction and wear of iron in sulfuric acid
[NASA-TP-2289] 12 p1796 N84-21716
Friction and wear of nickel in sulfuric acid
[NASA-TP-2290] 12 p1797 N84-21721
Tribology in the 80's. Volume 2: Sessions 5 - 8
[NASA-CP-2300-VOL-2] 15 p2340 N84-25047
Sputtering as a technique for applying tribological coatings 15 p2342 N84-25059
Dependence of realizability of selective mass transfer during friction of aluminum bronzes against steel on composition of lubricating fluid 17 p2641 N84-26901
Dependence of realizability of selective mass transfer during friction of tin bronzes against steel in hydraulic system mechanisms on concentration of alloying elements 17 p2642 N84-26902
Development of a method for wear measurement of thermoplast journal bearings
[OEFZS-4271] 18 p2849 N84-28093
Effects of micronic filtration on turbine engine lubricant deposition
[AD-A141802] 19 p2999 N84-29007
Design of an abrasion test under high stress. Application to the characterization of manganese steel quality assurance
[CETIM-12-D-081] 21 p3415 N84-31659
Slavutich high-cobalt WC-Co-matrix alloy
[CSIR-TRANS-1739] 22 p3552 N84-32490
Evaluation of service lubricants and metals correlation of bench tests with engines
[AD-A143971] 23 p3718 N84-33569
Life tests of ball bearings at 120C in helium atmosphere
[JUEL-1911] 23 p3757 N84-33816
Influence of laser hardening on mechanical properties of type 45 steel 24 p3873 N84-34546

WEATHER

NT COLD WEATHER

The effects of weather on rapid runway repair, volume 2
[AD-A130350] 01 p0016 N84-10105
Atlas of mean sea-level pressure
[AD-A130207] 01 p0107 N84-10697
Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F. Cape Lisburne Alaska AFS
[AD-A131194] 01 p0109 N84-10705
Making use of wind energy: A course in evaluating and choosing sites for small wind machines
[DE83-014945] 01 p0109 N84-10707
Simulation and evaluation of the Sh-2F helicopter in a shipboard environment using the interchangeable cab system
[NASA-TM-84387] 02 p0180 N84-11176
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F. Altus AFB, Oklahoma
[AD-A131613] 02 p0254 N84-11662
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F. Grissom AFB, Indiana
[AD-A131198] 02 p0254 N84-11665
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F. Blytheville AFB, Arkansas
[AD-A131197] 02 p0254 N84-11666
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F. Ellsworth AFB, Rapid City, South Dakota
[AD-A131196] 02 p0255 N84-11667
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F. Carswell AFB, Texas
[AD-A131193] 02 p0255 N84-11669
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F. Cape Newenham AFS, Alaska
[AD-A131192] 02 p0255 N84-11670
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F. Wertheim AAF, West Germany
[AD-A131190] 02 p0255 N84-11672
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F. Loring AFB, Maine
[AD-A131189] 02 p0256 N84-11673
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A, C, and D. Feucht AAF, West Germany
[AD-A131188] 02 p0256 N84-11674
Weather data communication and utilization
03 p0313 N84-12045
An aid for using the Revised Uniform Summary of Surface Weather Observations (RUSSWOs)
[AD-A132186] 04 p0588 N84-13742
Time lapse simulation of interrelated weather conditions
[AD-A133999] 05 p0708 N84-14639
The value of residential photovoltaic systems: A comprehensive assessment
[NASA-CR-173205] 07 p1025 N84-16843
Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F. Buckley ANGB, Colorado
[AD-A134205] 07 p1038 N84-16730
Limited Surface Observations Climatic Summary (LISOCS). Ft. Richardson, Alaska
[AD-A134207] 07 p1038 N84-16732
Limited Surface Observations Climatic Summary (LISOCS). Finthen AAF, West Germany
[AD-A134208] 07 p1038 N84-16733
Limited Surface Observations Climatic Summary (LISOCS). Colonel A J Bo Baker AAF, West Germany
[AD-A134209] 07 p1038 N84-16734
Limited Surface Observations Climatic Summary (LISOCS). Coleman AAF, West Germany
[AD-A134210] 07 p1038 N84-16735
Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F. Galena AFS, Alaska
[AD-A134211] 07 p1039 N84-16736
Forecasters handbook for the Middle East/Arabian Sea
[AD-A134312] 07 p1039 N84-16739
Navy tactical applications guide. Volume 5, Part 1: Indian Ocean (Red Sea/Persian Gulf) weather analysis and forecast applications
[AD-A134412] 07 p1039 N84-16740
A study of the weather record from Fance (1872-1980) including an analysis of climate variation
[AD-A136894] 10 p1540 N84-20090
Weather effects on electricity peak loads in the Southwest of the Netherlands and verification of the estimation of these maxima, 1 January 1972 - 1 January 1983
[KNMI-WR-83-14(DM)] 10 p1540 N84-20095
Corrosion in large aircraft: Management of the problem 11 p1631 N84-20666

Uijongbu, Camp LaGuardia, Korea, Limited Surface Observations Climatic Summary (LISOCS)
[AD-A137573] 11 p1685 N84-20989
Fort Wainwright, Wainwright AAF, Alaska, Limited Surface Observations Climatic Summary (LISOCS)
[AD-A137574] 11 p1685 N84-20990
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Dyess AFB, Texas
[AD-A137575] 11 p1685 N84-20991
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Part A-F: Phillips, Aberdeen, Maryland
[AD-A137577] 11 p1685 N84-20993
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Gela, Italy
[AD-A137578] 11 p1686 N84-20994
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Dhahran, Saudi Arabia
[AD-A137580] 11 p1686 N84-20995
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Travis Air Force Base, California
[AD-A137581] 11 p1686 N84-20996
Limited Surface Observations Climatic Survey (LISOCS), Baumholder, West Germany
[AD-A137582] 11 p1686 N84-20997
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Andersen AFB, Guam
[AD-A137583] 11 p1686 N84-20998
Weather pattern climatology of the US
[DE84-005883] 11 p1686 N84-21011
Reports from the German Meteorological Service, no. 163. Contribution to the classification of waste heat weather situations by means of thermal stratification. Upper Rhine model. Waste heat project, Upper Rhine, part 2
[ISBN-3-88148-206-7] 12 p1849 N84-22048
Modeling climatology of areal coverage
[AD-A138276] 12 p1860 N84-22120
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Zaragoza Air Base, Spain
[AD-A138281] 12 p1860 N84-22121
Documentation of the GLAS fourth order general circulation model. Volume 2: Scalar code
[NASA-TM-86064-VOL-2] 14 p2179 N84-24049
Documentation of the GLAS fourth order general calculation model. Volume 3: Vectorized code for the Cyber 205
[NASA-TM-86064-VOL-3] 14 p2179 N84-24050
Climatological frequency distributions for Juneau, Alaska
[PB84-154814] 14 p2180 N84-24059
VTOL shipboard letdown guidance system analysis
[NASA-CR-166519] 16 p2451 N84-25716
The management of atmospheric resources in food production
[INPE-3121-PRE/514] 16 p2528 N84-26231
Land-surface influences on weather and climate
[NASA-CR-173595] 16 p2529 N84-26234
Limited surface observations climatic summary (Lisocs). Schwaebisch Hall West Germany
[AD-A140242] 16 p2530 N84-26242
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Plattsburgh AFB, New York
[AD-A140244] 16 p2530 N84-26244
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: McGhee-Tyson Airport, Tennessee
[AD-A140245] 16 p2530 N84-26245
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F:: Upper Heyford RAF, UK
[AD-A140246] 16 p2530 N84-26246
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Woodbridge RAF, United Kingdom
[AD-A140247] 16 p2531 N84-26247
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Lakenheath, United Kingdom
[AD-A140248] 16 p2531 N84-26248
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Kadena AB, Japan
[AD-A140249] 16 p2531 N84-26249
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Bentwaters RAF United Kingdom
[AD-A140250] 16 p2531 N84-26250
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-E: Clark AFB, Philippines
[AD-A141228] 18 p2890 N84-28342
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Malmstrom AFB, Montana
[AD-A141229] 18 p2890 N84-28343
Comparison of airborne turbulence-indicating doppler radar systems with ground-based doppler radar systems
[AD-A141474] 19 p3005 N84-29043
San Juan Mountains avalanche study: Evaluation and prediction of avalanche hazard, meteorological and avalanche observations
[PB84-202704] 21 p3432 N84-31778
A computer calculation and display station for slosh hurricane surge model data
[PB84-198753] 21 p3449 N84-31887

WEATHER CHARTS
U METEOROLOGICAL CHARTS

WEATHER CONDITIONS
U WEATHER

WEATHER CONTROL
U WEATHER MODIFICATION

WEATHER DATA RECORDERS
World Weather Watch Planning report no. 38: Very short range forecasting: Observations, methods and systems
[WMO-621] 15 p2371 N84-25226

WEATHER FORECASTING
NT LONG RANGE WEATHER FORECASTING
NT NOWCASTING
NT NUMERICAL WEATHER FORECASTING
NT STATISTICAL WEATHER FORECASTING
Snow and ice research: An assessment
[PB83-231662] 01 p0101 N84-10656
Geophysical Fluid Dynamics Laboratory activities FY1982, plans-FY1983
[PB83-232827] 01 p0101 N84-10657
Forecast verification and reconnaissance data for Southern Hemisphere tropical cyclones
[AD-A130187] 01 p0108 N84-10700
Diagnosis of the comma cloud of 10 April 1979, abridged report
[AD-A130649] 01 p0108 N84-10701
Mariners Weather Log, Spring 1983, volume 27, number 2
[PB83-220491] 01 p0109 N84-10708
Some basic elements of thunderstorm forecasting
[PB83-222604] 01 p0109 N84-10710
Multipurpose weather roundup program
[PB83-222612] 01 p0110 N84-10711
National Weather Service public forecast verification summary, April 1978 to March 1982
[PB83-232173] 01 p0110 N84-10716
Objective analysis and prediction techniques
[AD-A131465] 02 p0256 N84-11675
A summary and integration of research concerning single pilot IFR operational problems 03 p0312 N84-12034
Mesocyclone detection and classification algorithm
[AD-A131826] 03 p0411 N84-12691
A subsynoptic environment associated with two inter-mountain severe thunderstorm events
[DE83-014498] 03 p0412 N84-12694
Development of a technique for short-term prediction of hydrometeors using advection and physical forcing
[AD-A132259] 04 p0567 N84-13740
Satellite activities of NOAA (National Environmental Satellite Data and Information Service) 1982
[PB83-252510] 04 p0568 N84-13747
NASA B-57B severe storms flight program
[NASA-TM-84921] 05 p0628 N84-14129
Terminal forecast reference notebook for RAF Alconbury, England
[AD-A133635] 05 p0708 N84-14640
Meteorological sensors for battlefield weather support
[AD-A132623] 05 p0709 N84-14643
Tropical cyclone operational plan for the Southwest Indian Ocean
[WMO-618] 06 p0882 N84-15741
Forecasters handbook for the Middle East/Arabian Sea
[AD-A134312] 07 p1039 N84-16739
Short-range local forecasting of coastal summer stratus by statistical techniques, a pilot study
[AD-A134590] 07 p1040 N84-16742
Cloud forecast fields comparison test
[AD-A135556] 08 p1191 N84-17761
Mariners weather log, volume 27, number 3, summer 1983
[PB84-106356] 08 p1192 N84-17771
A statistical technique for forecasting severe weather from vertical soundings by satellite and radiosonde
[PB84-114099] 08 p1192 N84-17772
FGGE level 3-B daily global analyses. Part 2: (Mar. 1979 - May 1979)
[PB84-100270] 08 p1193 N84-17780
NOAA (National Oceanic and Atmospheric Administration) satellite programs briefing
[PB84-106349] 08 p1193 N84-17781
Great lakes monthly hydrologic data
[PB84-114545] 09 p1339 N84-18745
An evaluation of marine fog forecast concepts and a preliminary design for a marine obscuration forecast system
[AD-A136379] 09 p1348 N84-18806
Tropical cyclone wind probability forecasting for the southern hemisphere (WINDPSH)
[AD-A136146] 09 p1350 N84-18817
Current procedures for forecasting aviation icing: A review
[AD-A136152] 09 p1350 N84-18818
Evaluation of point precipitation probability forecasts using radar estimates of rainfall areal coverage
[PB84-121060] 09 p1350 N84-18821
Review of the use of the thermodynamic diagram and its functions (with the application towards AFOS)
[PB84-120815] 09 p1350 N84-18822
Comparing probability forecasters: Basic binary concepts and multivariate extensions
[AD-A135966] 09 p1377 N84-18998
Potential impact of remote sensing data on sea-state analysis and prediction
[E84-10083] 10 p1520 N84-19954
The feasibility of using precursor aerosol parameters to predict visibility in fog and haze
[AD-A137141] 10 p1539 N84-20084
Analysis of AFGL aircraft icing data
[AD-A137197] 10 p1539 N84-20087
The reading of plots in weather and water wave charts
[KNMI-152-BV-10] 10 p1540 N84-20092
AFOS (Automation of Field Operations and Services)-era forecast verification
[PB84-129303] 10 p1541 N84-20096
Experiments with a spectral tropical cyclone model 10 p1542 N84-20105
Tropical cyclone report, January - December 1983
[AD-A137836] 11 p1687 N84-21000
Forecast aids for predicting tropical cyclone associated gusts and sustained winds for Agana, Hong Kong, Kadena and Misawa
[AD-A137846] 11 p1687 N84-21001
The use of interactive graphics processing in short-range terminal weather forecasting: An initial assessment
[AD-A137165] 11 p1687 N84-21004
Research Review, 1983
[NASA-TM-86053] 12 p1850 N84-22049
Comparison of GLAS retrieved cloud fields with model generated rainfall fields 12 p1851 N84-22061
Two contrasting Northern Hemisphere winters: 1980 - 1981 and 1981 - 1982 12 p1855 N84-22087
Directory of research publications
[AD-A138224] 12 p1860 N84-22119
The use of trajectories in short range weather forecasting
[KNMI-TR-35] 12 p1861 N84-22126
Investigation of the characteristics of the ECMWF model using the P27 system — atmospheric circulation
[KNMI-TR-39] 12 p1861 N84-22127
Proceedings of the Conference on Cooperative Climate Services
[PB84-152081] 12 p1863 N84-22137
AWOS (Automatic Weather Observing System) sensor evaluation. Transmissometer, forward-scatter meter and lidar ceilometer
[AD-A138743] 13 p2017 N84-23074
Forecasting the windstorm of 12 May 1983 (Acension Day) — the Netherlands
[KNMI-TR-43] 13 p2017 N84-23079
Index of air weather service technical publications
[AD-A139133] 14 p2179 N84-24054
National severe local storms operations plan
[PB84-155241] 14 p2180 N84-24061
Public response to hurricane probability forecasts
[PB84-158658] 14 p2182 N84-24077
Numeric and fluid dynamic representation of tornadic double vortex thunderstorms
[NASA-CR-171023] 15 p2370 N84-25217
World Weather Watch Planning report no. 38: Very short range forecasting: Observations, methods and systems
[WMO-621] 15 p2371 N84-25226
Four-dimensional satellite data assimilation
[AD-A139904] 15 p2372 N84-25228
Research in oceanography
[AD-A139890] 15 p2373 N84-25237
Geophysical Fluid Dynamics Laboratory activities, FY83, plans FY84
[PB84-148790] 15 p2374 N84-25245
Diagnostics of rainfall anomalies in the Nordeste during the global weather experiment
[SAPR-1] 16 p2529 N84-26235

Tropical cyclone data tape for the North Atlantic Basin, 1886 - 1983: Contents, limitations and uses
[NOAA-TM-NWS-NHC-22] 16 p2531 N84-26252
The MST radar technique: Requirements for operational weather forecasting 17 p2682 N84-27077
Climate modeling at Pacific Ocean Institute of Geography 17 p2697 N84-27178
Vector wind, horizontal divergence, wind stress and wind stress curl from SEASAT-SASS at one degree resolution 17 p2720 N84-27313
Status, future plans for Aeroflot's meteorological support 18 p2790 N84-27711
Socialist-bloc Conference on Climate Forecasting 18 p2856 N84-28134
Report of the WMO/CAS expert meeting on atmospheric boundary layer parameterization over the oceans for long range forecasting and climate models
[WCP-74] 18 p2884 N84-28297
The use of radar in modern meteorology 18 p2886 N84-28315
Use of radar in the pilot project 18 p2887 N84-28323
Alpine cyclogenesis as a complex problem 18 p2889 N84-28335
Joint probability of selected cloud and visibility thresholds around Frankfurt, Germany
[AD-A141342] 18 p2891 N84-28348
A spiral analysis technique for monitoring and predicting tropical cyclone intensity using satellite data
[AD-A141468] 19 p3058 N84-29401
A statistical-dynamical model for forecasting cold air stratocumulus over the yellow sea
[AD-A141540] 19 p3058 N84-29403
Investigation of the detectability and lifetime of gust fronts and other weather hazards to aircraft
[AD-A141552] 19 p3058 N84-29404
Meteorological interactive data display system (MIDDA)
[AD-A141864] 19 p3059 N84-29406
Tropospheric science 20 p3219 N84-30447
An assessment of interactive graphics processing in short-range terminal weather forecasting
[AD-A142706] 20 p3246 N84-30601
Zones
[PB84-174325] 20 p3248 N84-30616
Program for Regional Observing and Forecasting Services (PROFS)
[PB84-179928] 20 p3248 N84-30618
National Weather Service hurricane probability program
[PB84-182757] 20 p3248 N84-30619
Studies of statistical techniques to evaluate weather modification. Volume 1: Reports of OSET
[PB84-182906] 20 p3248 N84-30620
Federal plan for meteorological services and supporting research, fiscal year 1985
[PB84-182732] 21 p3449 N84-31884
National Hurricane Operations Plan
[PB84-196837] 21 p3450 N84-31888
NETWORK: A user oriented, interactive, station-siting program for NOAA (National Oceanic and Atmospheric Administration) VHF weather radio
[PB84-202233] 21 p3466 N84-31978
WARN: A warning formatter
[PB84-204551] 21 p3467 N84-31985
Agriculture weather services
[GPO-27-913] 22 p3624 N84-32966
Hurricane Alicia: Prediction, damage and recovery efforts
[GPO-33-446] 22 p3625 N84-32968
Experiments in objective aviation weather forecasting using upper-level steering
[AD-A143393] 22 p3625 N84-32971
Climate prediction. Part 1: Cyclone frequency
[AD-A143576] 22 p3625 N84-32973
Mariners Weather Log, Volume 28, Number 2, April-May-June 1984
[PB84-204569] 22 p3626 N84-32978
Seasonal precipitation forecasting with a 6 to 7 month lead time in the Pacific Northwest using an information theoretic model
[PB84-207018] 22 p3626 N84-32979
An approach for agricultural drought monitoring using NOAA/AVHRR and LANDSAT imagery 23 p3769 N84-33893
Initialization of a mesoscale model for April 10, 1979, using alternative data sources
[NASA-CR-3826] 24 p3921 N84-34815
An explanation of the revised DVORAK technique for estimating tropical cyclone intensity using satellite cloud imagery and some results of its application to two 1982 storms 24 p3921 N84-34820
Severe storm initiation and dvelopment from satellite infrared imagery and Rawinsonde data 24 p3929 N84-34872
Development of the Centralized Storm Information System (CSIS) for use in severe weather prediction 24 p3932 N84-34880

WEATHER FRONTS
U FRONTS (METEOROLOGY)

WEATHER MAPS
U METEOROLOGICAL CHARTS

WEATHER MODIFICATION
NT CLOUD SEEDING
NT RAINMAKING
NT STORM SUPPRESSION
Study of burnout frame rockets. 1: Study of small rocket with burnout frame for weather modifications
[NAL-TR-764] 09 p1274 N84-18319
Measures to improve anti-hail service 11 p1669 N84-20892
Can cloud-top entrainment promote cloud growth? 12 p1857 N84-22100
Project Skywater data inventory, 1982-1983 SCPP (Sierra Cooperative Pilot Project) data inventory
[PB84-151489] 14 p2180 N84-24058
First All-Union Symposium on M.A.P.: Conclusion of report 18 p2822 N84-27917
Weather modification technology shown at all-union conference 18 p2855 N84-28133
On the linear stability of two-dimensional barium clouds. 1: The inviscid case
[AD-A141284] 18 p2880 N84-28285
Problems in hail prevention 18 p2888 N84-28328
Overground Excess Sound Attenuation (ESA). Volume 2: Analysis of data for flat grassy terrain conditions
[AD-A142420] 20 p3291 N84-30692

WEATHER RADAR
U METEOROLOGICAL RADAR

WEATHER STATIONS
NT AUTOMATIC WEATHER STATIONS
A study of cirriform clouds over eleven USSR stations
[AD-A130085] 01 p0107 N84-10693
Climatic publications
[AD-A136021] 09 p1349 N84-18816
Decoder for manually digitized radar observations
[PB84-127539] 09 p1351 N84-18826
Reports from the German Meteorological Service. No 21: The evolution of meteorological observations in Austria, including Bohemia and Moravia up to the year 1700
[ISBN-3-88148-208-3] 14 p2178 N84-24046
The evaluation of rain gages, illustrated by the Thies rain gage and the electrical rain gage of the Royal Netherlands Meteorological Institute (KNMI)
[KNMI-WR-83-16] 14 p2180 N84-24057
Index numbers for North and Central America, the Caribbean and U.S. stations in the Pacific: Fifth editions
[PB84-159599] 15 p2372 N84-25231
Federal plans for cooperative backup among operational processing centers
[PB84-174796] 16 p2531 N84-26253
Joint probability of selected cloud and visibility thresholds around Frankfurt, Germany
[AD-A141342] 18 p2891 N84-28348
Weather summaries for Coram Experimental Forest, Northwestern Montana: An international biosphere reserve
[PB84-182443] 20 p3248 N84-30615
Computer programs for summarizing climatic data stored in the National Fire Weather Data Library
[PB84-197011] 21 p3449 N84-31886

WEATHERING
Matrix approach to testing mirrors, part 2
[DE83-011996] 04 p0558 N84-13676
The effect of environment on the mechanical behavior of AS/3501-6 graphite/epoxy material
[AD-A133331] 06 p0799 N84-15205
Solar Thermal Technology Program: Polymer synthesis and characterization subtask, FY 1983
[DE84-000094] 10 p1530 N84-20022
Weathered stony meteorites from Victoria Land, Antarctica, as possible guides to rock weathering on Mars 13 p2085 N84-23509
Mars-analog studies in Wright and Victoria Valleys, Antarctica 14 p2163 N84-23951
In-situ measurements of bronze deterioration
[DE84-007300] 15 p2299 N84-24796
Weathering trials and new rigidity tests on protective helmets for motor cyclists
[ARL-STRUC-TECH-MEMO-372] 15 p2300 N84-24804
Effects of weathering and lichen cover on the middle infrared spectra of rocks
[AD-A140228] 16 p2510 N84-26111
The effect of accelerated ultra violet weathering on the rain erosion resistance of coated aircraft transparencies
[AD-P003194] 17 p2591 N84-26607
Artificial aging of transparent aerospace materials
[AD-P003210] 17 p2593 N84-26623
Simulation of exposure of aircraft transparencies to flight line environment
[AD-P003212] 17 p2594 N84-26625
Tensile crack exposure tests. Statistical analysis of the long-term durability of series B beams
[AD-A141955] 20 p3201 N84-30335
Natural weathering of selected organic matrix composites
[AD-A144091] 23 p3711 N84-33527
Changes in TM response of soil scenes due to tillage, residue, and weathering — Landsat Thematic Mapper (TM) 23 p3766 N84-33674
Evaluation of the pavement condition index for use on porous friction surfaces
[AD-A144521] 24 p3857 N84-34453

WEATHERPROOFING
Fluorothermoplastics for long life, weatherproof composites
[BMFT-FB-T-84-082] 20 p3164 N84-30096

WEAVING
Influence of constituent properties and geometric form on behavior of woven fabric reinforced composites
[NASA-CR-173326] 09 p1275 N84-18326
Threadwise analysis of woven fabric composites
[NAL-TR-792T] 16 p2470 N84-25832
Double layered tailorable advanced blanket insulation
[NASA-CR-166600] 23 p3723 N84-33591

WEBS (MEMBRANES)
U MEMBRANES

WEBS (SHEETS)
Some considerations of the efficiency of sewn lap joints in a nylon webbing
[RAE-TR-83009] 03 p0355 N84-12310
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA-CASE-NPO-15494-2] 13 p1993 N84-22935
Time optimal digital control of multi-unit paper web dynamics 13 p2002 N84-22991
Is there a speed limit? 18 p2935 N84-28616
The S-Web technique for high-speed growth of Si sheets 18 p2937 N84-28629
Control of thermal stress in dendritic web growth 18 p2938 N84-28636
Process research of non-CZ silicon material
[NASA-CR-173759] 19 p3050 N84-29353

WEBS (SUPPORTS)
Inelastic stability of tapered, singly-symmetric beam-columns 02 p0230 N84-11509
Buckling strength of corrugated shear webs
[NAL-TR-759] 09 p1330 N84-18684
Strength of composite beams with eccentric, reinforced, rectangular web openings 17 p2679 N84-27063
Design considerations for shear links in eccentrically braced frames
[PB84-192186] 20 p3171 N84-30136

WEDGE FLOW
An adaptive finite element method for high speed compressible flow
[NASA-CR-173443] 17 p2601 N84-26669
Magnetohydrodynamic flow past nonconducting wedge 17 p2647 N84-26931

WEDGES
Power-series solutions of the gasdynamic equations for Mach reflection of a planar shock by a wedge
[AD-A135953] 09 p1315 N84-18594
An experimental investigation of the aerodynamic effects of forward facing wedges on the upper surface and leading edge of an aerofoil, with emphasis on high angles of attack
[ARL-AERO-TECH-MEMO-356] 11 p1599 N84-20477
The invariance of cones and wedges under flows
[PREPRINT-796] 12 p1817 N84-21848
Exact solution to problem of interaction between wedge moving at supersonic velocity and interface of two gaseous media 13 p1971 N84-22790
Regular reflection of strong shock wave by wedge surface 17 p2647 N84-26932
An experimental investigation of the aerodynamic effects of forward facing wedges on the upper surface and leading edge of an aerofoil, with emphasis at high angles of attack
[AD-A142053] 19 p2959 N84-28755
An evaluation of the Boeing wedge test for the assessment of CFRP surface pretreatment
[AD-A144050] 23 p3711 N84-33526

WEIBULL DENSITY FUNCTIONS
Simple probability functions with finite distribution limits: The radical functions
[AD-A131576] 02 p0285 N84-11865
A compound Weibull model for the description of surface wind velocity distributions
[KNMI-WR-83-13] 12 p1862 N84-22129
On obtaining physical meaning from the parameters in the Weibull distribution
[AD-A138574] 13 p2036 N84-23206

A comparison of several alternatives to maximum likelihood for the Weibull distribution
[AD-A136721] 13 p2036 N84-23208
Weibull analysis handbook
[AD-A143100] 21 p3475 N84-32023
WEIGHT
Testing of sealed lead-acid batteries
[DE84-008209] 14 p2141 N84-23840
WEIGHT (MASS)
NT BIOMASS
NT BODY WEIGHT
NT STRUCTURAL WEIGHT
Lightweight, high-frequency transformers 01 p0011 N84-10066
Study on strength, elastic modulus of artifical lightweight aggregate concrete
[PB83-224824] 01 p0059 N84-10389
A flutter optimization program for complete aircraft structural design 02 p0172 N84-11134
PREWATE: An interactive preprocessing computer code to the Weight Analysis of Turbine Engines (WATE) computer code
[NASA-TM-83545] 04 p0578 N84-13812
Weight and balance for the airmass incorporated sunburst model C ultralight
[NASA-CR-175356] 07 p0950 N84-16163
Report of the 68th National Conference on Weights and Measures 1983
[PB84-110998] 08 p1141 N84-17425
A finite difference study of the stretching and break-up of filaments of polymer solutions
[AD-A139258] 14 p2130 N84-23767
Stores weight and inertia system update: Cable attachment redesign, flexible length parameter calibration, data sheet revision
[AD-A141067] 19 p2963 N84-28781
The liquid bipropellant stage concept: Filling the OTV gap 20 p3140 N84-29936
Operation of electric vehicles in the US Department of Energy test program
[DE84-011703] 21 p3521 N84-32308
System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] 24 p3855 N84-34443
The combined influence of stretch, mobility and electrical stimulation in the prevention of muscle fiber atrophy caused hypokinesia and hypodynamia
[NASA-CR-173994] 24 p3936 N84-34914
WEIGHT FACTORS
U WEIGHT (MASS)
WEIGHT INDICATORS
NT STRAIN GAGE BALANCES
Some aspects of the compatibility between strain gauge readout equipment and multi-component wind tunnel balances
[ARL-AERO-NOTE-417] 09 p1317 N84-18606
WEIGHT MEASUREMENT
Report of the 68th National Conference on Weights and Measures 1983
[PB84-110998] 08 p1141 N84-17425
Specifications, tolerances, and other technical requirements for weighing and measuring devices
[PB84-125764] 08 p1163 N84-17572
WEIGHT REDUCTION
The 400-Hz aircraft power-generation systems: Advancing the baseline 01 p0010 N84-10056
Some trends in airship technology developments
[AGARD-R-717] 03 p0314 N84-12050
Optimization of production conditions and material characteristics of tubular stabilizer bars — vehicle stabilizer bars
[BMFT-FB-T-83-177] 07 p0986 N84-16385
Energy balance and the composition of weight loss during prolonged space flight
[NASA-CR-171745] 08 p1199 N84-17820
Redesigned of T-38 displacement gyroscope pack
[AD-A136047] 12 p1770 N84-21544
Development and demonstration of economic production systems in airframe construction. Part 2: Technological phase. Part 6: Review 14 p2093 N84-23555
Composite materials in automobile weight reduction 15 p2431 N84-25599
Anthropometric changes at high altitude
[AD-A140311] 16 p2535 N84-26277
Windshield weight reduction through the use of high strength glass and polyurethane interlayers
[AD-P003186] 17 p2590 N84-26599
Development of an advanced composite aileron for the L-1011 transport aircraft
[NASA-CR-3517] 18 p2810 N84-27836
The influence of grain structure, testing temperature and environment on the monotonic and low cycle fatigue behavior of a high strength aluminum-copper-lithium alloy 23 p3716 N84-33556
WEIGHTING FUNCTIONS
Wide range weight functions for the strip with a single edge crack
[NASA-TM-83478] 02 p0231 N84-11512
Interacting weights in multiple attribute decision making
[CSIR-TWISK-270] 04 p0586 N84-13874
Multisignal Minimum-Cross-Entropy spectrum analysis weighted priors
[AD-A132358] 04 p0589 N84-13896
Weighted decoding, by lattice, of linear block codes
[ENST-E-83008] 07 p1064 N84-16903
Specifications, tolerances, and other technical requirements for weighing and measuring devices
[PB84-125764] 08 p1163 N84-17572
Testing hypotheses in linear models with weighted rank statistics
[AD-A135759] 09 p1383 N84-19032
Equal weights, flat maxima, and trivial decisions
[AD-A138506] 12 p1895 N84-22342
An interpolation type inequality for a discrete weighted norm
[CTH-MATH-1983-30] 13 p2037 N84-23213
Differential weights for samples and attributes in the ordination program DECORANA and the classification program TWINSPAN (Hill, 1979) 17 p2756 N84-27494
Parallel scaled givens rotations for the solution of linear least squares problems
[AD-A140778] 17 p2758 N84-27512
Solving crack problems with analytical techniques and the finite elements method
[BLL-RISLEY-TR-4940-(9091.9F)] 20 p3200 N84-30325
Weighted inequalities and degenerate elliptic partial differential equations
[AD-A142895] 21 p3472 N84-32007
WEIGHTLESSNESS
Study of cardiovascular system during long-term spaceflights 02 p0259 N84-11694
Effect of redistribution of blood on severity of spatial position illusions in weightlessness 02 p0260 N84-11701
Changes in blood urea content under hypokinetic conditions 02 p0260 N84-11703
Energy metalbolism enzymes in simulation of some spaceflight factors 02 p0260 N84-11704
Evaluation of skeletal muscle tone by recording lateral rigidity 02 p0262 N84-11717
Bone and calcium alterations during spaceflight 02 p0263 N84-11729
Weightlessness and management of liquid rocket propellant
[AD-A132516] 04 p0509 N84-13334
The 5th Symposium on Gravitational Physiology 05 p0634 N84-14166
Zero gravity experiment of superfluid helium
[ISAS-604] 07 p0960 N84-16225
Changes in some rheological parameters of blood in experiments simulating weightlessness 07 p1044 N84-16774
G suit of bladderless type as a means of improving orthostatic stability after water immersion hypokinesia nd exposure to accelerations 07 p1045 N84-16775
Bioecholocation method for inestigation of parameters of intracranial circulation of blood and fluid in man 07 p1047 N84-16788
Experimentally produced biped monkeys as a model for multipurpose research in gravity biology and physiology 07 p1047 N84-16789
High capacity heat pipe performance demonstration
[NASA-CR-171733] 08 p1157 N84-17531
Water immersion and its computer simulation as analogs of weightlessness
[NASA-CR-171746] 08 p1200 N84-17821
Second All-Union Seminar on Hydromechanics and Heat-Mass Transfer in Weightlessness. Abstracts of reports: Table of contents
[NASA-TM-77534] 09 p1312 N84-18576
Mammalian gravity receptors: Structure and metabolism 09 p1353 N84-18840
Amplitude distributions of the spider heartpulse in response to gravitational stimuli 09 p1353 N84-18841
Bone loss in tail-suspended rats in restricted to the unweighted limbs 09 p1353 N84-18843
Simulating certain aspects of hypogravity: Effects on the mandibular incisors of suspended rats (PULEH model) 09 p1353 N84-18844
Influence of stress, weightlessness, and simulated weightlessness on differentiation of preosteoblasts 09 p1354 N84-18846
Morphological and histochemical studies of bone and cartilage during periods of stimulated weightlessness 09 p1354 N84-18847
Physiological changes in fast and slow muscle with simulated weightlessness 09 p1354 N84-18850
Extensions of suspension systems to measure effects of hypokinesia/hypodynamia and antiorthostasis in rats 09 p1355 N84-18855
Regulation of hematopoiesis in the suspended rat as a model for space flight 09 p1355 N84-18856
In vitro seed to seed growth on clinostats 09 p1356 N84-18863
Effects of simulated weightlessness on mammalian development. Part 1: Development of clinostat for mammalian tissue culture and use in studies on meiotic maturation of mouse oocytes 09 p1357 N84-18868
Cardiac chamber volumes by echocardiography using a new mathematical method: A promising technique for zero-G use 09 p1358 N84-18874
Interactions of light and gravity on growth, orientation, and lignin biosynthesis in mung beans 09 p1359 N84-18879
Rheoceptive mediators of graviperception in a water flea: Morphological implications of antennal-socket setae in daphnia magna 09 p1360 N84-18883
Effects of suspension on tissue levels of glucocorticoid receptors 09 p1360 N84-18884
Microgravity as an additional tool for research in human physiology with emphasis on sensorimotor systems
[ESA-BR-15] 09 p1362 N84-18900
Design and test of a cryogenic phase separator for zero-g environment 10 p1442 N84-19418
Hydromechanics and heat and mass exchange in weightlessness (Russian book): Table of contents
[NASA-TM-77533] 10 p1490 N84-19743
Terrestrial whisker growth experiments which anticipate some special effects of a space station environment
[NASA-CR-175440] 11 p1627 N84-20647
System for the management of trauma and emergency surgery in space
[NASA-CR-175439] 11 p1693 N84-21045
Research opportunities in bone demineralization, phase 3 11 p1693 N84-21046
Value of the lower body negative pressure test in aerospace medicine 11 p1701 N84-21096
USSR report: Space
[JPRS-USP-84-002] 12 p1774 N84-21566
Feasibility study to conduct windblown sediment experiments aboard a space station
[NASA-CR-175434] 12 p1776 N84-21586
USSR report: Space Biology and Aerospace Medicine, volume 18, no. 1, January - February 1984
[JPRS-USB-84-002] 12 p1864 N84-22149
Muscle tone changes in individuals of different age groups submitted to simulated weightlessness 12 p1864 N84-22150
Thirteenth Gagarin Conference 12 p1865 N84-22151
Experimental measurement of material damping for space structures in simulated zero-g
[AD-A139215] 14 p2120 N84-23703
Modeling of zero gravity venting
[NASA-CR-173503] 14 p2145 N84-23854
Contributions of space medicine to medical research 14 p2251 N84-24517
Low-temperature heat pipe experiment package (HEPP) for LDEF (S1001) 15 p2274 N84-24652
Transverse flat-plate heat pipe experiment (S1005) 15 p2274 N84-24653
Main results of medical studies on Salyut-6--Soyuz program 15 p2375 N84-25249
Nucleic acid content of canine liver during long-term experimental hypokinesia 15 p2377 N84-25267
On-orbit cryogenic fluid transfer
[NASA-TM-83688] 16 p2457 N84-25753
A study of stress-free living bone and its application to space flight
[NASA-CR-171786] 16 p2535 N84-26275
Research opportunities in muscle atrophy
[NASA-CR-3796] 17 p2743 N84-27416
Research opportunities in bone demineralization, phase 3
[NASA-CR-3795] 17 p2743 N84-27417
Cardiovascular reactions on orthostasis and weightlessness 17 p2744 N84-27424
Do living cells have a good sensitivity to gravity 17 p2744 N84-27425
Crystal growth of artificial snow 18 p2799 N84-27763
Gypsy moths and American dog ticks: Space partners 18 p2800 N84-27768
Crystal growth of device quality GaAs in space
[NASA-CR-173749] 18 p2935 N84-28613
Deputy flight director Blagov on 211-day flight of Berezovoy and Lebedev 19 p2971 N84-28834
MEA/A-1 experiment 81F01 conducted on STS-7 flight, June 1983. Containerless processing of glass forming melts
[NASA-CR-171048] 19 p2997 N84-28993

Optimized He 2 cooling systems for space application. Behavior and handling of superfluid helium at g = 0, phase 2
[BMFT-FB-W-84-006] 19 p3025 N84-29185
Ultrasound distribution and bone calcium content in experimental animals submitted to hypokinesia and weightlessness 20 p3254 N84-30652
NASA space biology accomplishments, 1983-84
[NASA-TM-86654] 20 p3256 N84-30664
USSR report: Space
[JPRS-USP-84-004] 21 p3347 N84-31228
Hypokinesia experiment studies effects of weightlessness 21 p3347 N84-31234
Publications of the NASA space biology program for 1980 - 1984 — bibliographies
[NASA-TM-86857] 22 p3628 N84-32990
Space stations: Living in zero gravity, developmental task for psychologists and space environmental experts
[NASA-TM-77620] 23 p3700 N84-33454
Stand on space station participation to be surveyed 23 p3732 N84-33658
Physical training of cosmonauts for intercosmos program missions 23 p3805 N84-34129
Effects of prolonged weightlessness on orchidaceae proteins 23 p3805 N84-34130
The Gravity Relevance in Bone Mineralization Processes — conference
[ESA-SP-203] 23 p3807 N84-34138
Electromechanical hypothesis of bone demineralization in weightlessness 23 p3808 N84-34149
Sensitivity of bone cell populations to weightlessness and simulated weightlessness 23 p3809 N84-34151
Use of primate model in weightlessness bone physiology. Histological approach after iliac crest biopsy 23 p3809 N84-34155

WEIGHTLESSNESS SIMULATION
Changes in some rheological parameters of blood in experiments simulating weightlessness 07 p1044 N84-16774
G suit of bladderless type as a means of improving orthostatic stability after water immersion hypokinesia nd exposure to accelerations 07 p1045 N84-16775
Respiratory tract closing volume and structure of total lung capacity during seven-day hypokinesia in head-down position 07 p1045 N84-16778
Effects of suspension on tissue levels of glucocorticoid receptors 09 p1360 N84-18884
USSR report: Space Biology and Aerospace Medicine, vol. 18, no. 3, May - June 1984
[JPRS-USB-84-005] 20 p3252 N84-30642
Effect of dihydroergotamine on human circulation during orthostatic tests 20 p3253 N84-30646
The so-called Wolff's law and the adaptation of bone to microgravity 23 p3808 N84-34145
Sensitivity of bone cell populations to weightlessness and simulated weightlessness 23 p3809 N84-34151
Use of primate model in weightlessness bone physiology: General problems 23 p3809 N84-34154

WELD STRENGTH
Metallurgical aspects and mechanical properties of weld metal in automatic submerged arc welding
[BLL-RISLEY-TR-4875-(9091.9F)] 09 p1324 N84-18650
Measurement of melt line penetration and heat flux during arc spot welding
[DE84-002013] 13 p1997 N84-22962
Weld penetration variations
[DE84-007915] 13 p1998 N84-22963
Weld quality monitoring system
[VTT-RR-263] 19 p3033 N84-29240
The NASA welding assessment program 19 p3048 N84-29339
Characterization of submerged-arc and gas-metal-arc weldments in hY-100 steel
[AD-A141939] 20 p3196 N84-30298
Preliminary investigation of ways to improve the strength of vertical electroslag welding
[CETIM-100-020] 21 p3415 N84-31654
Comparative estimate of cyclic strength of welded joints in titanium alloys 24 p3876 N84-34561

WELD TESTS
Note on standardization of implant tests
[VTT-RR-189] 02 p0198 N84-11288
A comparison between new and traditional ultrasonic techniques on thick welds in pressure vessels
[CISE-2074] 05 p0690 N84-14534
Embrittlement of steels due to galvanizing or coating with zinc paint: An investigation of embrittlement in welding or heating operations — liquid metal embrittlement
[AERE-TR-4774] 06 p0805 N84-15244
The use of matrix transducers in medium thickness welding inspection
[CISE-2075] 06 p0855 N84-15572
The effect of post weld heat treatment on welds in steel structures
[VTT-RR-217] 07 p1013 N84-16570
Measurement of melt line penetration and heat flux during arc spot welding
[DE84-002013] 13 p1997 N84-22962
Weld penetration variations
[DE84-007915] 13 p1998 N84-22963
The effect of section thickness on the fatigue performance of simple welded joints — offshore structures
[ND-R-941(S)] 18 p2852 N84-28107
Weld quality monitoring system
[VTT-RR-263] 19 p3033 N84-29240
Development of normalized operative mode for making deposits for chemical analysis in MIG/MAG welding
[CETIM-I.S.13.826] 21 p3362 N84-31331
Influence of copper on MAG deposits
[CETIM-12-Y-431] 21 p3369 N84-31375
Investigation of in position end to end welding of an aluminum alloy by electron beam
[CETIM-12-Y-442] 21 p3414 N84-31652
Preliminary investigation of ways to improve the strength of vertical electroslag welding
[CETIM-100-020] 21 p3415 N84-31654

WELDABILITY
Solidification and phase stability in austenitic stainless steels
[DE84-001937] 05 p0656 N84-14312
Determination of weld hydrogen content
[VTT-240] 15 p2296 N84-24777
Weldability of 2BT-treated 9Ni steel with ferritic filler metal
[DE84-006492] 18 p2815 N84-27869
Influence of copper on MAG deposits
[CETIM-12-Y-431] 21 p3369 N84-31375
Improving comfort of welders by reducing preheating temperatures — steel welding
[CETIM-12-Y-413] 21 p3414 N84-31651

WELDED JOINTS
Developmental techniques for ultrasonic flaw detection and characterization in stainless steel
[DE83-014282] 01 p0092 N84-10601
Corrosion of TIG welded austenitic stainless steels
[BLL-WINDSCALE-TR-959-(9091.F)] 06 p0803 N84-15235
Ultrasonic test data acquisition and defect verification of stainless steel welds at 4000 deg F
[DE83-012146] 06 p0855 N84-15570
Miniature center-cracked-tension specimen for fatigue crack growth testing
[DE84-001470] 06 p0862 N84-15615
Investigations of the mechanical behavior of spot welded joints by means of acoustic emission analysis
[DE84-003041] 07 p1014 N84-16574
Detection and sizing of underbead cracks using ultrasonic nondestructive examination
[DE83-012205] 11 p1686 N84-20869
Ultrasonic inspection of MC2893 strength member assembly weld
[DE84-007084] 12 p1824 N84-21892
Damage to welding seams — cracks 14 p2126 N84-23748
Determination of weld hydrogen content
[VTT-240] 15 p2296 N84-24777
Investigations made to improve the cold-cracking and the fracture behavior of welded joints in high-strength structural steels
[BMFT-FB-T-84-034] 16 p2466 N84-25803
Fracture mechanics characterization of the 15 CDV alloy at temperatures from -50 C to +20 C (welded joints). Summary of test number M4 495400 18 p2816 N84-27875
Ultrasonic techniques for the inspection of nuclear components
[BLL-RISLEY-TR-4905-(9091.9F)] 18 p2850 N84-28098
Photoelastic investigation of the stress concentration factor in welded joints — offshore structures
[ND-R-816(R)] 18 p2852 N84-28106
The effect of section thickness on the fatigue performance of simple welded joints — offshore structures
[ND-R-941(S)] 18 p2852 N84-28107
Limiting load capacity and weld measurements
[ISSN-0208-5658] 19 p3033 N84-29241
The NASA welding assessment program 19 p3048 N84-29339
Improved techniques of parallel gap welding and monitoring 19 p3048 N84-29341
Characterization of submerged-arc and gas-metal-arc weldments in hY-100 steel
[AD-A141939] 20 p3196 N84-30298
Upset weld study for joining 304L stainless steel tubes
[DE84-011507] 20 p3198 N84-30313
Study of different welded nipples in headers
[CRIF-MT-159] 21 p3415 N84-31655
The importance of impact pressure in the development of the process of formation of bonds between metals in the solid phase
[BLL-M-35656-(5828.4)] 22 p3550 N84-32473
Ferrous alloy metallurgy, liquid lithium corrosion and welding
[DE84-014656] 22 p3556 N84-32517
Aircraft landing dynamics facility carriage weld test program
[NASA-TM-85802] 22 p3603 N84-32827
Microstructural analysis for series 300 stainless steel sheet welds and tensile samples
[DE84-008513] 22 p3605 N84-32837
Fatigue behavior of welded joints subjected to variable amplitude stresses
[PB84-207620] 22 p3612 N84-32888
Influence of conditions and medium of annealing on short-term strength and fatigue resistance of welded joints in OT4 titanium alloy 24 p3876 N84-34559
Study of specifics of formation of stress and strain in making circular welded joints in aluminum alloy envelopes 24 p3876 N84-34560
Comparative estimate of cyclic strength of welded joints in titanium alloys 24 p3876 N84-34561
Explosive welding in the manufacture of titanium shells 24 p3876 N84-34562

WELDED STRUCTURES
NT STEEL STRUCTURES
Fracture behavior of unirradiated HT-9 and modified 9Cr-1Mo welds
[DE83-016021] 01 p0098 N84-10636
Effects of preheat on weldments of NICOP steel
[AD-A137145] 10 p1458 N84-19524
Characterizations of preheated and non-preheated HY-80 steel weldments by transmission electron microscopy
[AD-A136966] 10 p1460 N84-19537
Feasibility of remotely manipulated welding in space. A step in the development of novel joining technologies
[NASA-CR-175437] 11 p1664 N84-20857
Hydrogen attack mechanisms in a 2-1/4 Cr1 Mo welded steel 16 p2464 N84-25789
Robotisation of dye penetrant inspection: A study of a prototype and its development
[BLL-RISLEY-TRANS-4585-(9091.9)] 22 p3606 N84-32847
Optimization of initial microstructures of OT4-1 alloy elements joined by diffusion welding 24 p3875 N84-34558

WELDING
NT ARC WELDING
NT BRAZING
NT DIFFUSION WELDING
NT ELECTRIC WELDING
NT ELECTRON BEAM WELDING
NT ELECTROSLAG WELDING
NT EXPLOSIVE WELDING
NT FRICTION WELDING
NT FUSION WELDING
NT GAS TUNGSTEN ARC WELDING
NT GAS WELDING
NT LASER WELDING
NT PRESSURE WELDING
NT ULTRASONIC WELDING
Potential inspection, maintenance and repair techniques for the OTEC (Ocean Thermal Energy Conversion) systems
[PB83-221374] 01 p0060 N84-10397
Low-temperature forming of beta titanium alloys
[NASA-CR-3706] 02 p0193 N84-11253
The yield stress and strain-rate sensitivity of nickel over a wide temperature range
[DE83-016913] 02 p0197 N84-11279
In-house welding studies supporting the prelaunch assessment of the STS-6 main engines
[NASA-TM-82552] 02 p0229 N84-11499
Investigations on the reproducibility of the results of drop weight tests by the method of W. S. Pellini
[BLL-DRIC-T-6970-(3623.66)] 06 p0846 N84-15517
Welding deformations and residual stresses due to circumferential welding of cylindrical shells and hemispherical end plates
[BLL-DRIC-T-6968-(3623.66)] 06 p0851 N84-15549
Influence of Ar + CO2 shielding on the composition of a Cr-Mo-V weld
[BLL-CE-TRANS-8000-(9022.09)] 06 p0851 N84-15550
Ferrous alloy metallurgy: Liquid-lithium corrosion and welding
[DE84-003011] 07 p0975 N84-16317
Development of contact materials made by internal oxidation
[BMFT-FB-T-83-196] 07 p0977 N84-16332
Numerical solution of a generalized model of weld pool solidification
[NRC/CNR-TT-2076] 07 p1012 N84-16584

Overall mechanization of assembly and welding processes in the manufacture of ships' structures
12 p1787 N84-21653
Certain features of a vacuum magnetic-impulse welding process 12 p1787 N84-21656
Microwelding of various metallic materials under ultravacuum (A0138-10) 15 p2272 N84-24642
Heat flow, fluid flow and solidification phenomena in weld pools 15 p2306 N84-24835
An algorithm for seam tracking applications
[AD-A141705] 19 p3031 N84-29227
The NASA welding assessment program
19 p3048 N84-29339
Improved techniques of parallel gap welding and monitoring 19 p3048 N84-29341
Upset weld study for joining 304L stainless steel tubes
[DE84-011507] 20 p3198 N84-30313
Study of different welded nipples in headers
[CRIF-MT-159] 21 p3415 N84-31655
Aircraft landing dynamics facility carriage weld test program
[NASA-TM-85802] 22 p3603 N84-32827
USSR report: Materials science and metallurgy
[JPRS-UMS-84-006] 23 p3705 N84-33489

WELDING MACHINES
Sensor control of robot arc welding
06 p0931 N84-16047

WELLS
Geothermal Elastomeric Materials Technology Transfer (GEM-TT) Program
[DE83-013118] 01 p0050 N84-10325
Velocity plots and capture zones of pumping centers for ground-water investigations
[DE83-016618] 03 p0401 N84-12624
Seismic investigation of the Multi-Well Experiment site
[DE84-000943] 04 p0555 N84-13655
A summary of modeling studies of the Krafla Geothermal Field, Iceland
[DE84-000939] 05 p0697 N84-14578
Water resources data for New Jersey, water year 1982. Volume 1: Atlantic Slope Basins, Hudson River to Cape May
[PB84-119726] 09 p1338 N84-18736
Water resources data for Illinois, water year 1982. Volume 1: Illinois except Illinois River Basin
[PB84-120112] 09 p1338 N84-18738
Water resources data for New York, water year 1982. Volume 1: Eastern New York excluding Long Island
[PB84-114198] 09 p1339 N84-18744
Water resources data for Puerto Rico, 1981 - 1982
[PB84-114701] 09 p1339 N84-18746
Water resources data for Indiana, water year 1982
[PB84-114990] 09 p1339 N84-18747
Water resources data for Montana, water year 1982. Volume 1: Hudson Bay Basin, Missouri River Basin
[PB84-117506] 09 p1339 N84-18749
Water resources data for Louisiana, water year 1982. Volume 1: Central and Northern Louisiana
[PB84-116546] 09 p1339 N84-18750
Water resources data for West Virginia, water year 1982
[PB84-120161] 09 p1340 N84-18754
Water resources data for Nevada, water year 1982
[PB84-120365] 09 p1340 N84-18755
Water resources data for New York, water year 1982. Volume 3: Western New York
[PB84-119544] 10 p1527 N84-20003
Water resources data: Iowa water year, 1982
[PB84-137215] 10 p1528 N84-20009
Vectorization of a penalty function algorithm for well scheduling 10 p1562 N84-20233
Water level measurement network computer file
[DE84-005388] 11 p1672 N84-20909
Normal modes of a LaGrangian system constrained in potential well
[AD-A137948] 11 p1715 N84-21187
Technical and economic feasibility of horizontal, multiple shallow-well, and deep-well ground coupling for residential heat pump applications
[DE84-006244] 12 p1817 N84-21842
Analysis of Sweet Lake geopressured-geothermal aquifer
[DE84-006053] 12 p1836 N84-21972
Petrography and ultrasonic wave velocity in the Admire Formation (Permian), Kansas 22 p3621 N84-32945

WENTZEL-KRAMER-BRILLOUIN METHOD
Linear time-variant space-variant filters and the WKB approximation
[AD-A134886] 08 p1226 N84-18021

WEST GERMANY
Statistics of instantaneous rainfall rates
[AD-A130069] 01 p0107 N84-10695
First results of the evaluations of the European SAR 580 data for agricultural and forestry purposes in test site D6, Freiburg (West Germany) 03 p0398 N84-12599
The synthesized climatic function map
03 p0400 N84-12617
Heating with wind energy, part B
[BMFT-FB-T-83-131-PT-B] 03 p0405 N84-12651
Air pollution, environmental policy, and economics in the Federal Republic of Germany
[GHK-07] 05 p0701 N84-14601
Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F. Kitzingen, West Germany
[AD-A134202] 07 p1037 N84-16727
Limited Surface Observations Climatic Summary (LISOCS). Finthen AAF, West Germany
[AD-A134208] 07 p1038 N84-16733
Limited Surface Observations Climatic Summary (LISOCS). Colonel A J Bo Baker AAF, West Germany
[AD-A134209] 07 p1038 N84-16734
Limited Surface Observations Climatic Summary (LISOCS). Coleman AAF, West Germany
[AD-A134210] 07 p1038 N84-16735
The Prandtl Hergesell project of a National Research Establishment for Aeronautics
[DFVLR-MITT-83-10] 08 p1096 N84-17123
Documents on industrial research
[AGF-DOK-1/1983] 10 p1592 N84-20429
Industrial research and industry: Forms of collaboration and participation
[AGF-DOK-2/1983] 10 p1592 N84-20430
Limited Surface Observations Climatic Survey (LISOCS), Baumholder, West Germany
[AD-A137582] 11 p1686 N84-20997
Investigations of micro-turbulence in the bottom of the boundary layer
[AD-A138524] 12 p1861 N84-22123
Modern helicopter development in Germany
[MBB-UD-395-83-O] 14 p2105 N84-23627
Digital processing of LANDSAT data for the preparation of a land use map of the rural district surrounding Tuebingen to a scale of 1:50000
[ESA-TT-816] 16 p2509 N84-26104
Meteorological measurements in the Northern German coastal area for wind energy prospection
[BMFT-FB-T-84-017] 16 p2529 N84-26241
Limited surface observations climatic summary (Lisocs). Bad Kreuznach, Germany (West)
[AD-A140243] 16 p2530 N84-26243
West Europe report: Science and technology. FRG: Concept paper on microelectronics, communications technology
[JPRS-WST-84-023] 18 p2835 N84-27996
Radar network in West Germany — meteorological radar 18 p2888 N84-28332
Reports from the German Meteorological Service. Number 164: The climate in selected areas of the Federal Republic of Germany, Bremen
[ISBN-3-8848-210-5] 19 p3056 N84-29392
Reports from the German Meteorological Service. Number 165: The wind conditions in the Federal Republic of Germany with a view to windpower utilization (especially network planning). Part 3: Interior. Part 4: Hinterland
[ISBN-3-88148-211-3] 19 p3057 N84-29393
Windpower utilization from the point of view of the Federal Ministry of Research and Technology
23 p3785 N84-34006
Review of West Germany's DFS satellite telecommunications program 24 p3891 N84-34637
Meteorological and climatological conditions affecting the vertical structure of visibility in northern Germany
[AD-A144352] 24 p3934 N84-34902

WEST INDIES
NT HAITI
NT JAMAICA
NT PUERTO RICO

WEST PAKISTAN
U PAKISTAN

WEST VIRGINIA
Final comparison of TM and MSS data for surface mine assessment in Logan County, West Virginia
20 p3216 N84-30430

WET SPINNING
Measurements of elongational viscometry using a fiber spinning technique. Part 1: Modifications to the Sangamo Schlumberger elongational viscometer model E4
[AD-A140002] 15 p2333 N84-25010

WETLANDS
Identifying environmental features for land management decisions
[E84-10016] 03 p0392 N84-12556
Interpretability of wetland on SEASAT-A imagery in the polderland of Flanders: A structural approach
03 p0397 N84-12597
Photo interpretation key to Michigan land cover/use
[E84-10048] 04 p0553 N84-13641
An initial analysis of LANDSAT 4 Thematic Mapper data for the classification of agricultural, forested wetland, and urban land covers
[E84-10073] 07 p1020 N84-16620
Evaluation of spatial, radiometric and spectral Thematic Mapper performance for coastal studies
[E84-10093] 10 p1522 N84-19964
Evaluation of spatial, radiometric and spectral Thematic Mapper performance for coastal studies
[E84-10118] 14 p2167 N84-23978
Evaluation of spatial, radiometric and spectral Thematic Mapper performance for coastal studies
[E84-10159] 17 p2709 N84-27251
Assessment of temporal dynamics of selected terrestrial carbon pools
[DE84-009850] 19 p3059 N84-29410
Aboveground biomass estimation in a tidal brackish marsh using simulated Thematic Mapper spectral data
20 p3214 N84-30419
Delineation of wetland boundaries using vegetation within the Altamaha River Basin of Georgia
[AD-A142590] 20 p3228 N84-30515
Wetlands: Their use and regulation
[PB84-175918] 20 p3239 N84-30561
Global Biology Research Program: Biogeochemical Processes in Wetlands
[NASA-CP-2316] 20 p3256 N84-30665
Executive summary: Background
20 p3256 N84-30666
Geographic distribution of wetland parameters: The foundation of a data base 20 p3256 N84-30667
A framework for wetlands research: Development of a wetlands data base 20 p3256 N84-30668
An analysis of the effect of biological and physical parameters of a wetlands grass biome on the spectral modeling of phytomass and primary productivity
23 p3769 N84-33891

WETNESS
U MOISTURE CONTENT

WETTING
Some effects of anisotropic roughening on the wetting of metal surfaces
[AERE-R-10976] 01 p0047 N84-10305
Critical dynamics for continuous rapid solidification processing
[AD-A134257] 07 p0974 N84-16313
Reduction of heat insulation upon soaking of the insulation layer — hollow masonry
[BMFT-FB-T-83-193] 07 p1004 N84-16513
The wetting of ceramic opaque suspensions on oxidized alloy surfaces
[AD-A142899] 21 p3370 N84-31381

WHALES
Oil shale extraction using super-critical extraction
[NASA-CASE-NPO-15656-1] 13 p2006 N84-23012

WHEAT
Radar remote sensing for crop classification and canopy condition assessment: Ground-data documentation
[E84-10020] 01 p0099 N84-10643
Argentina wheat yield model
[E84-10101] 12 p1828 N84-21919
Brazil wheat yield covariance model
[E84-10103] 12 p1829 N84-21921
Intercepted photosynthetically active radiation estimated by spectral reflectance — Phoenix, Arizona
[E84-10109] 12 p1829 N84-21927
USSR Report: Life sciences, biomedical and behavioral sciences
[JPRS-UBB-84-003] 12 p1864 N84-22145
Sampling system for wheat (Triticum aestivum L) area estimation using digital LANDSAT MSS data and aerial photographs — Brazil
[E84-10139] 16 p2506 N84-26087
A sampling system for estimating the cultivation of wheat (Triticum aestivum L) from LANDSAT data
[E84-10165] 17 p2711 N84-27257

WHEATSTONE BRIDGES
Non-self generating transducer signal conditioning technique
[AD-P002677] 11 p1657 N84-20814
Three-wire static strain gage apparatus
[AD-D011130] 22 p3596 N84-32776

WHEELS
NT FLYWHEELS
NT NOSE WHEELS
NT REACTION WHEELS
NT TURBINE WHEELS
NT VEHICLE WHEELS
Grinding of cast iron with wheels made of superhard materials
[CSIR-TRANS-1687] 01 p0056 N84-10368
A method of economical gear finishing of surface hardened gears 07 p0983 N84-16370
Dynamic behavior of nonuniform tire/wheel assemblies
[PB84-125541] 08 p1167 N84-17598

Magnetic bearing design for high speed momentum wheels 09 p1296 N84-18474
A double gimballed momentum wheel for precision 3-axis attitude control 15 p2266 N84-24608
Electronic 4-wheel drive control device [NASA-TM-77618] 24 p3910 N84-34764

WHIRL
U ROTATION

WHIRL INSTABILITY
U ROTARY STABILITY

WHIRLING
U ROTATION

WHIRLING TESTS
U SPIN TESTS

WHISKER COMPOSITES
Methods of improving the matrix dominated performance of composite structures: A technical review [AD-A131257] 01 p0032 N84-10201
Production and characterization of beta-silicon carbide and alpha-silicon nitride whiskers for ceramic matrix composites [LA-9650-MS] 06 p0797 N84-15197
Analysis of stress-strain, fracture and ductility behavior of aluminum matrix composites containing discontinuous silicon carbide reinforcement [NASA-TM-83610] 12 p1789 N84-21666
Microstructure and orientation effects on properties of discontinuous silicon carbide/aluminum composites [NASA-TP-2302] 17 p2617 N84-26749
Growth and characterization of metal oxide whiskers for aerosol filtration [DE84-011049] 20 p3310 N84-31021

WHISKERS (CRYSTALS)
Transformation toughened and whisker reinforced ceramics [DE84-003281] 07 p0979 N84-16346
Terrestrial whisker growth experiments which anticipate some special effects of a space station environment [NASA-CR-175440] 11 p1627 N84-20647
Development of the VLS process for SiC whisker growth [DE84-004376] 11 p1628 N84-20652

WHISTLERS
Multiple spacecraft observations of interplanetary shocks: Characteristics of the upstream ULF turbulence 03 p0470 N84-13097
On the stimulated precipitation of electrons and the mechanism of wave generation in the whistler range in the ARAKS experiment 05 p0637 N84-14190
Whistler mode interactions and plasma sheet electrons [AD-A134327] 07 p0993 N84-16436
Whistler mode turbulence generated by electron beams in Earth's bow shock [NASA-CR-173143] 07 p1034 N84-16707
A summary of whistlers observed by Voyager 1 at Jupiter [NASA-CR-173415] 13 p2091 N84-23545
The influence of localized precipation-induced D-region ionization enhancements on subionospheric VLF progation 17 p2726 N84-27348
Temporal evolution of whistler growth in a cold plasma injection experiment [NASA-CR-173972] 23 p3828 N84-34280
Advanced studies of integrable systems [AD-A144122] 24 p3959 N84-35069

WHITE DWARF STARS
HEAO 1-A1 observations of AM Herculis and related objects [NASA-CR-170907] 01 p0164 N84-11077
Models of the hard X-ray spectrum of AM Herculis and implications for the accretion rate [NASA-TM-86045] 06 p1242 N84-18123
On the masses of white dwarfs in cataclysmic binaries 21 p3524 N84-32323
Observations of the ultraviolet spectra of helium (DB) white dwarfs and a study of the ultraviolet spectra of white dwarfs containing carbon [NASA-CR-173889] 22 p3677 N84-33310
Secular stability of rotating stars [DE84-014011] 23 p3839 N84-34353
Preliminary results of coordinated optical UV and X-ray observations of magnetic white dwarfs in binaries 24 p3960 N84-35216

WHITE LIGHT HOLOGRAPHY
Advances in white-light optical signal processing 12 p1905 N84-22406
Spatial interferometry for white light processing: The coherence interferometer 12 p1905 N84-22407
Space-variant optical systems [AD-A143996] 23 p3825 N84-34259

WHITE NOISE
NT THERMAL NOISE
Distributed detection of signal waveforms in additive Gaussian observation noise [AD-A131016] 01 p0066 N84-10434
Nonlinear acoustics in a dispersive continuum: Random waves, radiation pressure, and quantum noise 04 p0594 N84-13920
Strategies using an observer for steering a random motion of a point in a multitarget environment [CSIR-TWISK-285] 07 p1049 N84-16794
Noise [AD-A135066] 08 p1222 N84-17983
The nonlinear filtering problem for the unbounded case [AD-A136501] 09 p1376 N84-18985
Research on boundary feedback and control theories, 1978 - 1983 [AD-A136531] 09 p1376 N84-18987
Frequency modulation with noise in a sampled Automatic Frequency Control (AFC) system 17 p2652 N84-26983
Parameterization of spectrum 17 p2896 N84-27172
A nonstandard construction of Levy Brownian motion [REPT-82] 20 p3265 N84-30661

WICKS
Liquid flow through mesh-wire gauze wicks — models [NLR-TR-83104-U] 21 p3403 N84-31592

WIDEBAND
U BROADBAND

WIDEBAND COMMUNICATION
Broadband communication with fiber optic channels [BMFT-FB-T-83-118] 02 p0211 N84-11377
Wideband integrated Voice/Data technology [AD-A132284] 04 p0521 N84-13421
Study of a satellite communication system for wideband communications: Executive summary [ESA-CR(P)-1839] 12 p1809 N84-21795
Sidelobe cancelling techniques used in wideband systems 13 p1976 N84-22822
Local network wideband interconnection alternatives [AD-A138604] 13 p1982 N84-22868

WIDTH
Effective-width model for evacuation flow 04 p0512 N84-13362
Line width and line shape analysis in the inductively coupled plasma by high resolution Fourier transform spectrometry [DE84-004356] 10 p1457 N84-19513
Width of nonlinear resonance [DE84-009862] 19 p3102 N84-29706
Narrow-seam laser welding of components of low thickness 23 p3709 N84-33514

WIENER FILTERING
Analysis of some filtering and data analysis methods for gravitational wave antennas with resonant transducers [IFSI-82-11] 03 p0362 N84-12359
SAR speckle noise reduction using Wiener filter 03 p0393 N84-12568
Detection-filter representations for Markov jump diffusions [NLR-TR-82019-U] 23 p3820 N84-34226

WIGGLER MAGNETS
High-efficiency free-electron-laser experiments [DE83-015218] 02 p0227 N84-11487
Evolution of long pulses in a tapered wiggler free-electron laser [DE83-017235] 03 p0381 N84-12484
Simulation of a high-gain tapered-wiggler free-electron laser [DE84-001237] 04 p0540 N84-13557
Two-stage FEL (Free Electron Laser) program [AD-A133508] 06 p0850 N84-15548
Free electron laser with versatile polarization capability [DE84-002889] 07 p1011 N84-16557
Orbital stability in combined uniform axial and three-dimensional wiggler magnetic fields for free-electron lasers [NASA-TM-83753] 20 p3192 N84-30273
Free electron lasers and related topics [DE84-011332] 20 p3193 N84-30277
The Gain-Spread-Excitation theorem [AD-A144447] 24 p3951 N84-35020

WIGHTMAN THEORY
U FIELD THEORY (PHYSICS)
U QUANTUM THEORY
U RELATIVISTIC THEORY

WILDERNESS
Land cover and terrain mapping for the development of digital data bases for wildlife habitat assessment in the Yukon Flats National Wildlife Refuge, Alaska 14 p2166 N84-23971

WILDLIFE
NT BABOONS
NT BIRDS
NT MONKEYS
Land cover and terrain mapping for the development of digital data bases for wildlife habitat assessment in the Yukon Flats National Wildlife Refuge, Alaska 14 p2166 N84-23971
Application of remote sensing to state and regional problems [E84-10128] 14 p2166 N84-23986

WINCHES
Bottom-mounted profiling winch [AD-A141808] 19 p3032 N84-29230

WIND (METEOROLOGY)
NT CYCLOGENESIS
NT GEOSTROPHIC WIND
NT GROUND WIND
NT GUSTS
NT JET STREAMS (METEOROLOGY)
NT MONSOONS
NT SQUALLS
NT WINDS ALOFT
Dugway, Utah range reference atmosphere 0-30 Km altitude [AD-A131110] 02 p0254 N84-11664
On the wind stress - sea level power law [AD-A132035] 03 p0410 N84-12681
Snow cover and meteorology at Allagash, Maine, 1977 - 1980 [AD-A132013] 03 p0410 N84-12684
Estimating long-term mean winds from short-term wind data [DE83-017417] 03 p0412 N84-12693
Adjustment in the oceans: The long-period tides and coastal upwelling 03 p0413 N84-12702
Range reference atmosphere 0-70 km altitude [AD-A132487] 04 p0567 N84-13737
A vertical wind angle standard deviation calculation method for the unstable surface boundary layer [AD-A132382] 04 p0567 N84-13739
Range reference atmosphere 0-30 km altitude, Eglin AFB, Florida [AD-A133506] 06 p0882 N84-15734
Range reference atmosphere 0-70 KM altitude [AD-A134186] 07 p1036 N84-16722
Photon-burst correlation techniques for atmospheric crosswind measurements [AD-A134617] 08 p1187 N84-17735
The Grand Banks experiment: A satellite/aircraft/ship experiment to explore the ability of specialized radars to define ocean fronts [AD-A136181] 09 p1304 N84-18522
Structural analysis of air outflow from low layers of intense thundercloud [AD-A136500] 09 p1348 N84-18810
Review of publications on the Dutch wind climate [KNMI-TR-41(FM)] 10 p1539 N84-20061
The storm of 12 May 1983, Ascension day [KNMI-TR-44(CWD)] 10 p1541 N84-20096
Analysis of wind gust data 10 p1573 N84-20308
Investigation of the currents and density structures of Lake Erie [PB84-140334] 11 p1672 N84-20911
Potential transport errors in single-layer wind fields [DE84-003446] 11 p1675 N84-20982
Kinematic analysis of Hurricane Frederick (1979) using satellite, aircraft and Rawinsonde data [NASA-CR-175430] 11 p1685 N84-20968
Eddy: Mean flow interaction diagnostics [AD-P002654] 11 p1690 N84-21019
Evidence for the direct atmospheric forcing of mid-ocean eddies [AD-P002656] 11 p1690 N84-21021
Ventilated and unventilated models of the wind-driven circulation [AD-P002657] 11 p1690 N84-21022
Measurement of ocean surface winds by SEASAT synthetic aperture radar [AD-A136392] 12 p1836 N84-21971
Multivariate optimum interpolation of surface pressure and winds over oceans 12 p1853 N84-22069
On the effect of using the Shapiro filter to smooth winds on a sphere 12 p1853 N84-22074
A one dimensional model for the study of upwelling [INPE-2936-RPE/445] 13 p2018 N84-23066
Climate fluctuations in Illinois: 1901-1980 [PB84-159996] 14 p2181 N84-24069
Snow storm with strong wind in Antarctica 15 p2353 N84-25118
Investigation of thermospheric winds relative to space station orbital altitudes [NASA-TM-82577] 15 p2371 N84-25220
Facilities for meteorological research at NASA Goddard/Wallops Flight Facility [NASA-TM-84422] 15 p2371 N84-25223
Limited surface observations climatic summary (Lisocs). Schwaebisch Hall West Germany [AD-A140242] 16 p2530 N84-26242

Limited surface observations climatic summary (Lisocs). Bad Kreuznach, Germany (West)
[AD-A140243] 16 p2530 N84-26243

Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Plattsburgh AFB, New York
[AD-A140244] 16 p2530 N84-26244

Effects of aircraft and flight parameters on energy-efficient profile descents in time-based metered traffic
[NASA-CR-172338] 17 p2604 N84-26685

Real time divergence measurement from single Doppler radar
[AD-A140558] 17 p2653 N84-26966

Scanning wind-vector scatterometers with two pencil beams 17 p2713 N84-27271

New algorithms for microwave measurements of ocean winds 17 p2713 N84-27272

The variability of the surface wind field in the equatorial Pacific Ocean: Criteria for satellite measurements 17 p2717 N84-27296

Vector wind, horizontal divergence, wind stress and wind stress curl from SEASAT-SASS at one degree resolution 17 p2720 N84-27313

The impact of scatterometer wind data on global weather forecasting 17 p2720 N84-27314

First global analysis of SEASAT scatterometer winds and potential for meteorological research 17 p2720 N84-27315

The importance of altimeter and scatterometer data for ocean prediction 17 p2720 N84-27316

A scheme for mass and wind analysis on a limited area using multivariate three-dimensional optimum interpolation: Scientific documentation and first evaluation
[KNMI-TR-46] 17 p2734 N84-27382

Diurnal and annual variation of climatic elements in Finland
[T-551.583.13(480)] 18 p2883 N84-28294

Mean upper tropospheric flow over the global tropics, volume 1
[AD-A141227] 18 p2889 N84-28341

Reports from the German Meteorological Service. Number 165: The wind conditions in the Federal Republic of Germany with a view to windpower utilization (especially network planning). Part 3: Interior. Part 4: Hinterland
[ISBN-3-88148-211-3] 19 p3057 N84-29393

US average wind power by season
[DE84-012214] 20 p3248 N84-30613

Wind-generated noise in shallow water
[AD-A141981] 20 p3290 N84-30690

Research study: Organization and development of organized convection in the boundary layer
[NASA-CR-171115] 21 p3398 N84-31552

Synoptic scale wind field properties from the SEASAT SASS
[E84-10169] 21 p3426 N84-31732

Applications of the AVE-SESAME data sets to mesoscale studies
[NASA-CR-3619] 21 p3446 N84-31866

Doppler-radar observation of the evolution of downdrafts in convective clouds
[NASA-CR-173674] 21 p3450 N84-31896

Wind loading on solar concentrators: Some general considerations
[NASA-CR-173896] 22 p3616 N84-32915

Dynamical simulation of cloudy boundary layer flow during cold air outbreaks 22 p3624 N84-32964

Rotationally sampled wind characteristics and correlations with MOD-OA wind turbine response
[PNL-5238] 24 p3916 N84-34794

A new procedure of objective target cloud selection for the GMS cloud wind estimation system and the accuracy of the resultant wind vectors 24 p3921 N84-34819

Transient convection over the Amazon/Bolivia region and the dynamics of drought over northeast Brazil
[INPE-3226-PRE/577] 24 p3922 N84-34823

A synoptic study of the influence of extra-tropical latitude systems on the climatic variability in northeast Brazil
[INPE-3225-PRE/576] 24 p3922 N84-34824

Automated mesoscale winds derived from GOES multispectral imagery 24 p3933 N84-34895

WIND CIRCULATION
U ATMOSPHERIC CIRCULATION

WIND DIRECTION

Range reference atmosphere 0-70Km altitude, Wallops Island, Virginia
[AD-A131327] 02 p0254 N84-11661

AFCRL (Air Force Cambridge Research Laborstories) acoustic wind sensor system
[AD-A133739] 05 p0708 N84-14841

Oceanographic and meteorological research based on the data products of SEASAT
[E84-10077] 07 p1021 N84-16624

Meteorological yearbook of Finland, volume 77, part 1b. Climatological data from Jokioinen and Sodankylae Observatories, 1977
[ISBN-951-697-189-X] 07 p1035 N84-16713

Preliminary study of (2-D) digital filtering for dealiasing NOSS wind direction data
[NASA-CR-173147] 07 p1036 N84-16721

Flight measurement and analysis of AAFE RADSCAT wind speed signature of the ocean
[NASA-TM-85646] 08 p1194 N84-17784

Computer-model results for the beach-escarpment-induced distortion of onshore wind flow at the northwest point of San Nicolas Island, California
[AD-A135952] 09 p1349 N84-18815

Characteristics of wind direction meander during onshore flow at a coastal site
[DE84-004178] 11 p1688 N84-21007

SASS wind forecast impact studies using the GLAS and NEPRF systems: Preliminary conclusions 12 p1851 N84-22055

Distortion of the wind field by the Cabauw meteorological tower
[KNMI-WR-83-15] 12 p1862 N84-22130

Meteorological investigations at the wind test site Pellworm
[GKSS-83-E-61] 13 p2018 N84-23082

Meteorological measurements in the Northern German coastal area for wind energy prospection
[BMFT-FB-T-84-017] 16 p2529 N84-26241

The impact of scatterometer wind data on global weather forecasting 17 p2720 N84-27314

First global analysis of SEASAT scatterometer winds and potential for meteorological research 17 p2720 N84-27315

Radionuclide counting technique for measuring wind velocity and direction
[NASA-CASE-LAR-12971-1] 18 p2883 N84-28292

Wind energy assessment studies in the Goodnoe Hills and Cape Blanco areas
[DE84-010087] 19 p3059 N84-29409

Directional extreme wind speed data for the design of buildings and other structures
[PB84-176847] 20 p3171 N84-30139

High yield wind energy resources in the mid-Hudson River basin
[PB84-184951] 20 p3234 N84-30530

Passive yaw damping of a teetered rotor versus delta-3 angle values
[DE84-009758] 20 p3236 N84-30545

Surface winds in some Alaskan passes
[PB84-194745] 21 p3450 N84-31895

A synoptic study of the influence of extra-tropical latitude systems on the climatic variability in northeast Brazil
[INPE-3225-PRE/576] 24 p3922 N84-34824

A study of the influence of extra-tropical latitude systems on the climatic variability in Northeast Brazil
[INPE-3264-PRE/595] 24 p3922 N84-34825

WIND EFFECTS

Turbulent wind effects on tension leg platform surge
[PB83-207464] 01 p0058 N84-10376

Reports from the German Meteorological Service. Number 163: Comparative measurements with wind shielded and unshielded rain gages
[ISBN-3-88148-203-2] 02 p0253 N84-11654

On the growth of gravity-capillary waves by wind
[KNMI-WR-83-10] 03 p0412 N84-12698

On the unsteady response of an oceanic front to local atmospheric forcing
[AD-A132215] 05 p0708 N84-14637

Wind tunnel tests on a model of a semisubmersible platform and comparison of the results with full-scale data
[NLR-MP-82014-U] 06 p0780 N84-15113

JBFA - buoyant flight
[NASA-TM-76815] 07 p0946 N84-16136

The effects of wind waves on sea level at the coast
[IOS-155] 07 p1042 N84-16754

Nearshore current model workshop summary
[AD-A134702] 08 p1195 N84-17791

Vibration of overhead transmissions lines 4 10 p1506 N84-19854

Feasibility study to conduct windblown sediment experiments aboard a space station
[NASA-CR-175434] 12 p1776 N84-21586

Untapped midwestern wind energy resource: Nocturnal low-level wind maxima
[DE84-006424] 13 p2017 N84-23077

Wind abrasion on Venus: A means for experimental investigations 13 p2076 N84-23455

Aeolian processes on Venus 13 p2076 N84-23456

Wind streaks on Mars: Comparisons of production models with observations of bright streaks 13 p2081 N84-23486

Desert pavement study at Amboy, California 13 p2082 N84-23492

Climatic atlas of Texas
[PB84-162908] 14 p2182 N84-24074

Proceedings of the 12th Joint Panel Conference of the US-Japan Cooperative Program in Natural Resources: Wind and Seismic Effects
[PB84-167758] 15 p2318 N84-24911

Research in oceanography
[AD-A139890] 15 p2373 N84-25237

Aerodynamic instability of cable-stayed bridges: Theoretical experimental study of stall flutter 18 p2789 N84-27700

Development of upper mixed ocean layer with increase in stability and in presence of wind 18 p2857 N84-28143

Natural phenomena hazards modeling project: Extreme wind-tornado hazard models for Department of Energy sites
[DE84-011157] 20 p3247 N84-30608

Long-term salinity, temperature and current measurements in upper Chesapeake Bay
[PB84-180260] 20 p3251 N84-30636

Synoptic scale wind field properties from the SEASAT SASS
[E84-10169] 21 p3426 N84-31732

Conceptual design of an electrofluid dynamic wind energy system
[DE84-004512] 21 p3435 N84-31795

Oscillations of elastic airplane due to wind gust 21 p3485 N84-32087

Aircraft liftmeter
[NASA-CASE-LAR-12518-1] 22 p3535 N84-32383

Local climatological investigation of wind fields in the lower Monongahela Valley of Allegheny County, Pennsylvania 23 p3799 N84-34088

WIND ENERGY
U WINDPOWER UTILIZATION

WIND EROSION

Erosion and transport of eolian materials on Mars
[NASA-CR-174569] 02 p0308 N84-12019

Martian dust storms witnessed by Viking Lander 1 13 p2081 N84-23487

Wind erosion and dune formation on high frozen bluffs 13 p2082 N84-23493

Radar-visible wind streaks in the Altiplano of Bolivia 13 p2088 N84-23527

The case for aeolian control of meter-scale surface texture on Mars 13 p2088 N84-23528

Nitrogen threshold experiment 15 p2427 N84-25578

Sensing of factors involved in development of exogenous processes on space photographs of arid territories 19 p2977 N84-28870

WIND MEASUREMENT
NT WIND VELOCITY MEASUREMENT

Statistical correlations of surface wind data: A comparison between a National Weather Service station and a nearby aerometric network
[PB83-237263] 02 p0257 N84-11680

Construction of two wind turbines AEROMAN 11/11 for Indonesia
[BMFT-FB-T-83-143] 03 p0384 N84-12505

Estimating long-term mean winds from short-term wind data
[DE83-017417] 03 p0412 N84-12693

Comparison of low-altitude wind-shear statistics derived from measured and proposed standard wind profiles
[NASA-TM-85668] 04 p0482 N84-13172

Worldwide experience of wind shear during 1981-1982 06 p0776 N84-15087

Oceanographic and meteorological research based on the data products of SEASAT
[E84-10077] 07 p1021 N84-16624

The first European Remote Sensing Satellite (ERS-1): Overall description, potential applications and users 08 p1175 N84-17654

Scatterometer System Simulator (SSS), phase 1: Definition — ERS-1 (ESA satellite)
[ESA-CR(P)-1788] 08 p1191 N84-17765

Enhancement of SEASAT wind-stress measurements using data from GOES
[PB84-111244] 08 p1192 N84-17773

A history of the satellite wind estimation at MSC and the present accuracy of satellite winds 09 p1347 N84-18803

Subsynoptic variations in SEASAT winds
[PB84-131697] 09 p1350 N84-18823

Analysis of SEASAT wind observations in the Gulf of Mexico and the Caribbean Sea
[PB84-131309] 09 p1350 N84-18824

The use of trajectories in short range weather forecasting
[KNMI-TR-35] 12 p1861 N84-22126

Distortion of the wind field by the Cabauw meteorological tower
[KNMI-WR-83-15] 12 p1862 N84-22130

Performance and size estimating for wind systems
[DE84-006980] 13 p2009 N84-23033
Study of wind scatterometer antenna for ERS-1. Volume 1: Executive summary report
[Y/A-3380] 13 p2017 N84-23080
Study of windscatterometer antenna for ERS-1
[MIX/A-3188] 13 p2018 N84-23081
Meteorological investigations at the wind test site Pellworm
[GKSS-83-E-61] 13 p2018 N84-23082
Wind climate of the Netherlands
[ISBN-90-12-04466-9] 14 p2178 N84-24045
Development of a simple wind speedometer for application in countries of the developing world
[BMFT-FB-T-83-310] 15 p2336 N84-25022
Atmospheric environment for Space Shuttle (STS-11) launch
[NASA-TM-82580] 15 p2366 N84-25194
Real time divergence measurement from single Doppler radar
[AD-A140558] 17 p2653 N84-26966
An evaluation of the accuracy of some radar wind profiling techniques 17 p2687 N84-27109
The variability of the surface wind field in the equatorial Pacific Ocean: Criteria for satellite measurements 17 p2717 N84-27296
Regression analysis technique for air data sensor calibration with an inertial navigation system
[DFVLR-MITT-84-03] 18 p2791 N84-27716
Doppler weather radar applications to terminal and enroute air traffic control 18 p2887 N84-28324
Calculation of natural ventilation and comfort
[DE84-009215] 19 p3071 N84-29485
SASS 1 model function evaluation and upgrade — Seasat A Satellite Scatterometer (SASS) 23 p3778 N84-33956
NASA scatterometer on NROSS: A system for global observations of oceanic winds — Navy Remote Ocean Sensing System (NROSS) 23 p3782 N84-33980
Using an airborne CO2 CW laser for free stream airspeed and windshear measurements 24 p3850 N84-34417
Wind measurement with coherent laser radar at 10 microns 24 p3907 N84-34750
Rotationally sampled wind characteristics and correlations with MOD-OA wind turbine response
[PNL-5238] 24 p3916 N84-34794
NASA/MSFC FY-84 Atmospheric Processes Research Review
[NASA-CP-2329] 24 p3923 N84-34829
Evaluation of airborne lidar wind measurements 24 p3928 N84-34865
Analysis of Doppler lidar wind measurements 24 p3929 N84-34868
Statistical structure of convective periods derived from satellite ground based data 24 p3931 N84-34882

WIND PRESSURE
Buckling of stiffened cylindrical bins under wind loading
[PB84-137926] 10 p1518 N84-19941
Performance and size estimating for wind systems
[DE84-006980] 13 p2009 N84-23033
Calculation of natural ventilation and comfort
[DE84-009215] 19 p3071 N84-29485

WIND PROFILES
Summary of the VIN field program: Summer 1979
[AD-A130836] 01 p0108 N84-10704
Winds: Chapter 6, 1983 revision. Handbook of Geophysics and Space Environments
[AD-A132018] 03 p0410 N84-12683
Comparison of low-altitude wind-shear statistics derived from measured and proposed standard wind profiles
[NASA-TM-85668] 04 p0482 N84-13172
Tropical cyclone wind probability forecasting for the southern hemisphere (WINDPSH)
[AD-A136146] 09 p1350 N84-18817
Analysis of SEASAT wind observations in the Gulf of Mexico and the Caribbean Sea
[PB84-131309] 09 p1350 N84-18824
International ultraviolet explorer observations of Wolf-Rayet binaries: Wind structures 11 p1757 N84-21467
Observing system simulation experiments related to space-borne Lidar wind profiling. Part 2: Sensitivity to atmospheric and instrumental influences 12 p1850 N84-22053
Untapped midwestern wind energy resource: Nocturnal low-level wind maxima
[DE84-006424] 13 p2017 N84-23077
Wind abrasion on Venus: A means for experimental investigations 13 p2076 N84-23455
Aeolian processes on Venus 13 p2076 N84-23456
A spatial model of wind shear and turbulence for flight simulation
[NASA-TP-2313] 14 p2178 N84-24044
Atmospheric environment for Space Shuttle (STS-9) launch
[NASA-TM-82572] 14 p2179 N84-24047
Case study of layer fine structure and turbulence within stable elevated layers
[PB84-158666] 14 p2182 N84-24076
Internal gravitation waves in a stably stratified atmosphere
[KBMI-WR-84-1] 15 p2368 N84-25206
Vector wind gust model
[NASA-CR-171029] 15 p2371 N84-25222
The influence of V/STOL on wing design and tailplane design 16 p2436 N84-25627
Quantities of interest to climatology and atmospheric physics, volume 2 16 p2529 N84-26239
Determination of stratospheric wind profiles by digital analysis
[AD-A140502] 16 p2531 N84-26251
An evaluation of the accuracy of some radar wind profiling techniques 17 p2687 N84-27109
Capabilities and limitations of existing MST radars: Colorado wind profilers 17 p2690 N84-27132
Vector wind, horizontal divergence, wind stress and wind stress curl from SEASAT-SASS at one degree resolution 17 p2720 N84-27313
Wind velocity and temperature profiles in atmospheric surface layer for neutral and unstable stratification conditions 18 p2865 N84-28189
Wind energy assessment studies in the Goodnoe Hills and Cape Blanco areas
[DE84-010067] 19 p3059 N84-29409
Conceptual design of an electrofluid dynamic wind energy system
[DE84-004512] 21 p3435 N84-31795
Recent eolian activity and paleoclimate fluctuations in the Ferris Lost Soldier Area, South-Central Wyoming 21 p3441 N84-31830
Wind shear for large wind turbine generators at selected tail tower sites
[DE84-011790] 22 p3626 N84-32974
Evaluation of wind estimates over open ocean from the Nimbus 7 scanning multichannel microwave radiometer 23 p3773 N84-33921
Comparison of sea surface wind speed fields by SEASAT radar altimeter, scatterometer and scanning multichannel microwave radiometer with an emphasis on the Southern Ocean 23 p3774 N84-33922
Local climatological investigation of wind fields in the lower Monongahela Valley of Allegheny County, Pennsylvania 23 p3799 N84-34088

WIND RIVER RANGE (WY)
Preliminary geologic/spectral analysis of LANDSAT-4 Thematic Mapper data, Wind River/Bighorn basin area, Wyoming 20 p3213 N84-30413

WIND SHEAR
Branching Atmospheric Trajectory (BAT) model
[PB83-233023] 01 p0110 N84-10717
Evaluation of a total energy-rate sensor on a transport airplane
[NASA-TP-2212] 03 p0332 N84-12164
Comparison of low-altitude wind-shear statistics derived from measured and proposed standard wind profiles
[NASA-TM-85668] 04 p0482 N84-13172
Worldwide experience of wind shear during 1981-1982 06 p0776 N84-15087
Influence of windshear on flight safety 06 p0776 N84-15088
Evaluation and analysis of experience reports concerning wind shear problems
[DFVLR-FB-83-19] 07 p0949 N84-16159
Wind speed and direction shears with associated vertical motion during strong surface winds
[NASA-TM-82566] 08 p1190 N84-17756
Enhancement of SEASAT wind-stress measurements using data from GOES
[PB84-111244] 08 p1192 N84-17773
Reconfigurable multivariable control law for commercial airplane using a direct digital output feedback design
[NASA-TM-85759] 09 p1257 N84-18206
Statistics of vertical shear from a hemispheric model
[AD-A136179] 10 p1543 N84-20111
Aircraft accident report: Eastern Air Lines, Inc., Boeing 727-225, N8838E, Raleigh, North Carolina, November 12, 1975
[PB83-910406] 11 p1603 N84-20500
A numerical analysis of the effect of inhomogeneity and wind speed shear on the vertical dispersion in the mesoscale range
[AD-A137188] 11 p1688 N84-21006
A spatial model of wind shear and turbulence for flight simulation
[NASA-TP-2313] 14 p2178 N84-24044
Numeric and fluid dynamic representation of tornadic double vortex thunderstorms
[NASA-CR-171023] 15 p2370 N84-25217
Determination of stratospheric wind profiles by digital analysis
[AD-A140502] 16 p2531 N84-26251
Pilot-aircraft interaction concerning a wind shear indication system 17 p2588 N84-26586
Doppler weather radar applications to terminal and enroute air traffic control 18 p2887 N84-28324
Design of wind shear filters
[NASA-TM-77460] 19 p2968 N84-29808
A method for three-dimensional modeling of wind-shear environments for flight simulator applications
[NASA-TM-85969] 20 p3127 N84-29857
Prediction of slant wind shear with an offset tower observation system
[AD-A142676] 20 p3248 N84-30600
Aircraft liftmeter
[NASA-CASE-LAR-12518-1] 22 p3535 N84-32363
Wind shear for large wind turbine generators at selected tail tower sites
[DE84-011790] 22 p3626 N84-32974
Using an airborne CO2 CW laser for free stream airspeed and windshear measurements 24 p3850 N84-34417

WIND TUNNEL APPARATUS
NT WIND TUNNEL DRIVES
NT WIND TUNNEL NOZZLES
Engine/airframe interference drag at cruise conditions, using propulsion simulation
[NLR-TR-82012-U] 03 p0321 N84-12098
Gusts simulation for flight-mechanical investigations in wind tunnels 07 p0944 N84-16127
Laser velocimetry in the low-speed wind tunnels at Ames Research Center
[NASA-TM-85885] 07 p1007 N84-16526
Some aspects of the compatibility between strain gauge readout equipment and multi-component wind tunnel balances
[ARL-AERO-NOTE-417] 09 p1317 N84-18606
Two-dimensional wind tunnel
[NASA-TM-76963] 11 p1620 N84-20602
Vortical flow exploration methods developed for the F1 wind tunnel 14 p2099 N84-23598
Evaluation tests of platinum resistance thermometers for a cryogenic wind tunnel application
[NASA-TM-85803] 14 p2148 N84-23865
The wind tunnel S2MA of the aerodynamic testing plant in Modane-Avrieux, France
[ONERA-NT-1983-5] 16 p2454 N84-25735
Characterization of pressure transducers for future cryogenic wind tunnels 16 p2478 N84-25873
Design study for a low density wind tunnel
[INPE-3072-TDL/160] 17 p2610 N84-26707
Recent modifications and calibration of the Langley low-turbulence pressure tunnel
[NASA-TP-2328] 18 p2785 N84-27675
The F2 wind tunnel at Fauga-Mauzac
[NASA-TM-77482] 19 p2969 N84-28814
A new method of evaluating the side wall interference effect on airfoil angle of attack by suction from the side walls
[NASA-TM-77722] 24 p3852 N84-34432

WIND TUNNEL BALANCES
U WEIGHT INDICATORS
U WIND TUNNEL APPARATUS

WIND TUNNEL CALIBRATION
Rotary target V-block
[NASA-CASE-LAR-12007-3] 07 p1006 N84-16523
Operational experience with the National Transonic Facility 14 p2094 N84-23585
Recent modifications and calibration of the Langley low-turbulence pressure tunnel
[NASA-TP-2328] 18 p2785 N84-27675

WIND TUNNEL DRIVES
A quasi-continuous transonic wind tunnel for cryogenic operation
[ROLLAB-MEMO-RM-096] 06 p0792 N84-15181
The 6M x 8M low speed wind tunnel 21 p3345 N84-31221

WIND TUNNEL MODELS
Remotely driven model control surfaces for efficient wind-tunnel operations 01 p0022 N84-10139
Tornado Wind Energy Conversion System (TWECS) evaluation program
[PB83-227207] 01 p0103 N84-10669
Video model deformation system for the National Transonic Facility
[NAS 1.15:85681] 02 p0222 N84-11457
Engine/airframe interference drag at cruise conditions, using propulsion simulation
[NLR-TR-82012-U] 03 p0321 N84-12098
Effect of thrust reverser operation on the lateral-directional characteristics of a three-surface F-15 model at transonic speeds
[NASA-TP-2234] 04 p0481 N84-13165

Wind tunnel tests on a model of a semisubmersible platform and comparison of the results with full-scale data
[NLR-MP-82014-U] 06 p0780 N84-15113
Wake characteristics and interactions of the Canard/wing lifting surface configuration of the X-29 forward-swept wing flight demonstrator
[AD-A133168] 06 p0783 N84-15126
The effect of discrete spanwise regions of bleed on pseudo-two-dimensional base flow at transonic speeds
[ARL-AERO-NOTE-418] 07 p0945 N84-16132
Captive trajectory system test planning information for AEDC supersonic wind tunnel (A) and hypersonic wind tunnels (B) and (C)
[AD-A136439] 09 p1259 N84-18217
Heat transfer measurements in cold wind tunnels
[AD-A135740] 09 p1315 N84-18591
Comparative force measurements on half and whole models of a heavy lift wing in the large wind tunnel Emmen
[F/W-50-1596] 10 p1422 N84-19301
International aviation (selected articles)
[AD-A137617] 11 p1599 N84-20473
Using a commercial CAD system for simultaneous input to theoretical aerodynamic programs and wind-tunnel model construction 12 p1675 N84-22223
A universal 3-dimensional wall pressure correction method for closed rectangular subsonic wind tunnel test sections (displacement, downwash, streamline curvature)
[ESA-TT-800] 13 p1935 N84-22588
A short note on recent advances in the adaptive wall technique for 3D-model tests at the TU-Berlin
14 p2095 N84-23571
Half-model testing in the NLR high speed wind tunnel HST: Its technique and application
14 p2098 N84-23588
New methods of excitation, acquisition and data reduction about unsteady wind tunnel tests
14 p2099 N84-23599
Experience in engine face, non-steady, flow measurements through a side and bottom engine air inlet duct 14 p2100 N84-23600
Fracture temperature and flaw growth in nitronic 40 at cryogenic temperatures
[NASA-TP-2312] 14 p2127 N84-23750
Wake visualization
[BU-262] 15 p2255 N84-24542
The effect of perforation on the aerodynamics of a spoiler
[BU-266] 15 p2255 N84-24545
An investigation into anti-swirl devices for s-shaped air intakes
[BU-293] 15 p2256 N84-24549
Aerothermal wind tunnel test of the space shuttle OMS (Orbital Maneuvering System) pod AFRSI (Advanced Flexible Reusable Surface Insulation) material
[AD-A140292] 16 p2457 N84-25754
Half-model testing in the NLR High Speed Tunnel (HST): Its technique and application
[NLR-MP-83036-U] 17 p2601 N84-26675
Support interference of wind tunnel models: A selective annotated bibliography
[NASA-TM-81909-SUPPL] 17 p2610 N84-26708
Evaluation of aerodynamic admittance of a model bridge oscillating with vertical motion
[NMI-R-175] 18 p2851 N84-28104
Fastener load tests and retention systems tests for cryogenic wind-tunnel models
[NASA-TM-85805] 19 p2993 N84-28964
Design study of test models of maneuvering aircraft configurations for the National Transonic Facility (NTF)
[NASA-CR-3627] 23 p3696 N84-33422
Visualization of the 3-dimensional flow around a model with the aid of a laser knife
[NASA-TM-77497] 23 p3746 N84-33748
A new method of evaluating the side wall interference effect on airfoil angle of attack by suction from the side walls
[NASA-TM-77722] 24 p3852 N84-34432
Model mount system for testing flutter
[NASA-CASE-LAR-12950-1] 24 p3856 N84-34448
Morse theory for flows in presence of a symmetry group
[AD-A144661] 24 p3952 N84-35026

WIND TUNNEL NOZZLES

Laminarization of a boundary layer in a supersonic nozzle by cooling of the surface
[NASA-TM-77341] 05 p0626 N84-14119
Remarks on the layout of the subsonic free jet wind tunnels
[NASA-TM-77328] 09 p1258 N84-18214
Wind tunnel material test to quantify Space Shuttle external tank insulation requirements
[AD-A141563] 19 p2961 N84-28690

WIND TUNNEL STABILITY TESTS

Wind tunnel tests on a model of a semisubmersible platform and comparison of the results with full-scale data
[NLR-MP-82014-U] 06 p0780 N84-15113
New investigation of short wings with lateral jets
[NASA-TM-77347] 06 p0782 N84-15124
La Recherche Aerospatiale bimonthly bulletin, number 1983-3, 214/May-June
[ESA-TT-822] 08 p1226 N84-18014

WIND TUNNEL TESTS

Experimental studies of boundary layer transition on a spinning and non-spinning axisymmetric body
01 p0002 N84-10014
LANN (Lockheed, AFWAL, NASA-Langley and NLR) wing test program: Acquisition and application of unsteady transonic data for evaluation of three-dimensional computational methods
[NASA-CR-174465] 01 p0005 N84-10032
Experimental methods to determine control effectiveness in wind tunnels 01 p0013 N84-10087
Control of the forebody vortex orientation by asymmetric air injection. Part A: Application to enhance departure/spin recovery of fighter aircraft and Part B: Details of the flow structure 01 p0014 N84-10088
Plume base flow simulation technology
01 p0018 N84-10116
Launch vehicle aerodynamic data base development comparison with flight data 01 p0018 N84-10117
Aerodynamic analysis of the loft anomaly observed on orbital flight tests of the space shuttle
01 p0019 N84-10120
Techniques for assessment of ascent aerodynamic characteristics of the space shuttle launch system
01 p0019 N84-10121
Shuttle booster separation aerodynamics
01 p0019 N84-10123
Space shuttle orbiter reaction control subsystem flight data anomalies 01 p0021 N84-10131
Remotely driven model control surfaces for efficient wind-tunnel operations 01 p0022 N84-10139
Orbiter entry heating lessons learned from development flight test program 01 p0023 N84-10148
Shuttle orbiter boundary layer transition at flight and wind tunnel conditions 01 p0023 N84-10149
The development of aerodynamic uncertainties for the space shuttle orbiter 01 p0026 N84-10164
Compiling the space shuttle wind tunnel data base: An exercise in technical and managerial innovators
01 p0026 N84-10166
Shuttle flight pressure instrumentation: Experience and lessons for the future 01 p0026 N84-10167
An experimental documentation of trailing-edge flows at high Reynolds number
[NASA-TM-84375] 01 p0076 N84-10498
Parametric tip effects for conformable rotor applications
[NASA-TM-85682] 01 p0094 N84-10609
Tornado Wind Energy Conversion System (TWECS) evaluation program
[PB83-227207] 01 p0103 N84-10669
Fast flutter clearance by parameter variation
02 p0172 N84-11135
Reynolds number tests of an NPL 9510 airfoil in the Langley 0.3-meter transonic cryogenic tunnel
[NASA-TM-85683] 02 p0173 N84-11141
Airloads on bluff bodies, with application to the rotor-induced downloads on tilt-rotor aircraft
[NASA-TM-84401] 02 p0174 N84-11142
Rotor/body aerodynamic interactions
[NASA-TM-85844] 02 p0174 N84-11143
The melting spherical ice particles falling at terminal velocity in air: An experimental and theoretical study
02 p0252 N84-11647
Subsonic/Transonic Aerodynamic Interference for Aircraft: Introductory remarks 03 p0317 N84-12073
Engine/airframe interference drag at cruise conditions, using propulsion simulation
[NLR-TR-82012-U] 03 p0321 N84-12098
An experimental investigation of the vortex flow over delta and double-delta wings at low speed
03 p0322 N84-12106
Recent studies at NASA-Langley of vortical flows interacting with neighboring surfaces
03 p0322 N84-12109
Application of the small body pressure transducer
[AD-A131733] 03 p0377 N84-12454
Random eddies in wakes and mixing layers — wind tunnel tests 03 p0429 N84-12813
Tabulation of data from tests of an NPL 9510 airfoil in the Langley 0.3-meter transonic cryogenic tunnel
[NASA-TM-84579] 04 p0479 N84-13151
An approximate method of estimating the aerodynamic interference between two parallel bodies (normal force and side force)
[NAL-TR-752] 04 p0479 N84-13154
Flight testing the Rotor Systems Research Aircraft (RSRA)
[NASA-TM-85852] 04 p0483 N84-13177
High altitude aerodynamic tests with simulated heat-shield outgassing
[AD-A132078] 04 p0492 N84-13227
Response of flame spread phenomena to ambient air stream velocity changes 04 p0514 N84-13373
Experiments on mixing and combustion with low heat release in a turbulent shear flow
04 p0531 N84-13489
Design and performance of a fixed, nonaccelerating, guide vane cascade that operates over an inlet flow angle range of 60 deg
[NASA-TM-83519] 05 p0626 N84-14120
On the application of holographic interferometry to axisymmetric air flows 05 p0678 N84-14458
A preliminary investigation of the drag and ventilation characteristics of livestock haulers
[NASA-CR-170408] 05 p0761 N84-14990
Effects of wall interference on unsteady transonic flows 06 p0779 N84-15105
New, high performance rotating parachute — reentry vehicle recovery
[DE84-002382] 06 p0783 N84-15129
An experimental study of airfoil-spoiler aerodynamics
06 p0784 N84-15133
Results from wind tunnel and artificial rainfall tests of the modified scan sensor
[AD-A133238] 06 p0792 N84-15162
The SERI advanced and innovative wind energy concepts program
[DE83-011960] 06 p0873 N84-15680
A proposed method for model temperature conditioning in cryogenic wind tunnels
[OUEL-1480/83] 07 p0960 N84-16224
Wind tunnel study of natural gas dispersion from models of pipeline fractures and measurements of source characteristics
[OUEL-1466/83] 07 p1005 N84-16516
Noise of the SR-6 propeller model at 2 deg and 4 deg angles of attack
[NASA-TM-83515] 07 p1069 N84-16946
Tests on a CAST 7 two-dimensional airfoil in a streamlining test section
[NASA-CR-172291] 08 p1097 N84-17136
IRAAM wind tunnel test, task 3
[AD-A135256] 08 p1099 N84-17148
Airloads research study. Volume 2: Airload coefficients derived from wind tunnel data
[NASA-CR-170410] 08 p1103 N84-17174
Wind-tunnel free-flight investigation of a model of a forward-swept-wing fighter configuration
[NASA-TP-2230] 08 p1105 N84-17184
Air intakes for a probative missile of rocket ramjet
[NASA-TM-77407] 09 p1251 N84-18170
Effects of blowing spanwise from the tips of low-aspect ratio wings of varying taper ratio, with application to improving STOL capability of fighter aircraft
[AD-A135688] 09 p1252 N84-18175
Wind tunnel tests on a nonaxisymmetric projectile shape at Mach numbers 2.5 to 6.0
[AD-A135784] 09 p1253 N84-18177
High altitude maneuver control tests in the NSWC (Naval Surface Weapons Center) hypervelocity wind tunnel
[AD-A136105] 09 p1253 N84-18178
Hover test of a full-scale hingeless helicopter rotor: Aeroelastic stability, performance and loads data — wind tunnel tests
[NASA-TM-85892] 09 p1255 N84-18190
Heat transfer measurements in cold wind tunnels
[AD-A135740] 09 p1315 N84-18591
Review and assessment of USAF and US Army (HISS) artificial icing cloud studies
[AD-A135720] 09 p1349 N84-18814
A wind tunnel investigation to determine dominant forebody strake design characteristics for an F-15 equipped with conformal fuel tanks
[AD-A136912] 10 p1421 N84-19292
Continued experimental investigation of dynamic stall
[AD-A136920] 10 p1421 N84-19294
Wind tunnel tests on an outer wing segment of the ASW-19X sailplane
[VTH-LR-369] 10 p1423 N84-19305
Use of adaptive walls in 2D tests
[NASA-TM-77380] 10 p1432 N84-19359
Testing for severe aerodynamically induced vibration environments 10 p1513 N84-19905
Wing planform effects at supersonic speeds for an advanced fighter configuration
[NASA-TP-2269] 11 p1601 N84-20486
An experimental study of the properties of surface pressure fluctuations in strong adverse pressure gradient turbulent boundary layers
[NASA-CR-175410] 11 p1601 N84-20488

Two-dimensional wind tunnel
[NASA-TM-76963] 11 p1620 N84-20602
Test-engine and inlet performance of an aircraft used for investigating flight effects on fan noise
[NASA-TP-2254] 11 p1729 N84-21277
Application of laser velocimetry to unsteady flows in large scale high speed tunnels
[NASA-CR-166575] 12 p1765 N84-21511
Wind-tunnel investigation of an advanced general aviation canard configuration
[NASA-TM-85760] 12 p1769 N84-21539
Body-freedom flutter of a 1/2-scale forward-swept-wing model, an experimental and analytical study
[NASA-CR-172324] 12 p1771 N84-21553
An experimental study on the induced rolling moment due to wing-tail interference and roll-controllable two-stage rocket
[NAL-TR-793] 12 p1777 N84-21599
Experimental investigation of the internal flow field in STOL engine inlets 13 p1927 N84-22544
Post-test data report for the space shuttle full-scale AFRSI sequence of environments test (OS-305-1 to -5) in the NASA/Ames Research Center 11x11-foot wind tunnel
[NASA-CR-167684] 13 p1938 N84-22603
Combustion performance of a vitiated air heater for a freejet test facility 13 p1952 N84-22691
Aeolian processes on Venus
13 p2076 N84-23456
Wind Tunnels and Testing Techniques
[AGARD-CP-348] 14 p2094 N84-23564
A review and an update of the FDP Specialists Meeting (London) on Wall Interference in Wind Tunnels
14 p2095 N84-23570
A short note on recent advances in the adaptive wall technique for 3D-model tests at the TU-Berlin
14 p2095 N84-23571
Ground/flight test techniques and correlation
14 p2096 N84-23574
High Reynolds number tests of the cast 10-2/DOA2 transonic airfoil at ambient and cryogenic temperature conditions 14 p2096 N84-23575
Nonadiabatic model wall effects on transonic airfoil performance in a cryogenic wind tunnel
14 p2096 N84-23579
Practical solutions to simulation difficulties in subscale wind tunnel tests 14 p2097 N84-23581
Recent developments and future directions in dynamic stability research at NAE, Ottawa
14 p2097 N84-23582
Propeller and rotor noise testing in aeroacoustic wind tunnels 14 p2097 N84-23583
Aeroacoustic noise measurements in wind tunnel
14 p2097 N84-23584
Use of a small scale wind tunnel and model shop at Aeronautica Macchi as an industrial tool
14 p2097 N84-23585
The 310 airbus test in the ONERA wind tunnel: Flight-wind tunnel comparison 14 p2098 N84-23587
Recent developments in store separation and grid survey techniques using the ARA Two-Sting Rig
14 p2099 N84-23595
A self-contained captive trajectory system for a blowdown wind tunnel 14 p2099 N84-23596
The accelerated light model technique of store separation as developed and used at British Aerospace, Brough 14 p2099 N84-23597
Vortical flow exploration methods developed for the F1 wind tunnel 14 p2099 N84-23598
New methods of excitation, acquisition and data reduction about unsteady wind tunnel tests
14 p2099 N84-23599
Experience in engine face, non-steady, flow measurements through a side and bottom engine air inlet duct 14 p2100 N84-23600
Recent developments in the measurement of time-dependent pressures 14 p2100 N84-23601
Aerodynamic forces on an airship hull in atmospheric turbulence
[UTIAS-277] 14 p2100 N84-23604
Aerodynamic characteristics of the 40- by 80/80- by 120-foot wind tunnel at NASA Ames Research Center
[NASA-TM-85946] 14 p2104 N84-23622
Low-speed wind-tunnel study of the high-angle-of-attack stability and control characteristics of a cranked-arrow-wing fighter configuration
[NASA-TM-85776] 14 p2110 N84-23654
Nozzle tests for simulating heavy rain in a wind tunnel
[AD-A139586] 14 p2111 N84-23657
An aeroelastician's perspective of wind tunnel and flight experiences with active control of structural response and stability
[NASA-TM-85761] 14 p2157 N84-23924
Acoustic measurements of a full-scale rotor with four tip shapes. Volume 1: Text, appendices A and B
[NASA-TM-85878-VOL-1] 14 p2221 N84-24327
V/STOL wind-tunnel testing
[NASA-TM-85936] 15 p2253 N84-24528
Flight mechanical analysis of dynamic derivatives of the Dornier variation wind tunnel model
[DFVLR-FM-83-38] 15 p2255 N84-24541
An investigation into the nature and control of vortex flow round helicopter upsweep
[BU-285] 15 p2255 N84-24544
The effect of perforation on the aerodynamics of a spoiler
[BU-286] 15 p2255 N84-24545
An investigation into anti-swirl devices for s-shaped air intakes
[BU-293] 15 p2256 N84-24549
Demonstration of boundary layer characteristics
[BU-299] 15 p2256 N84-24550
Wind tunnel modelling of buoyant plumes
[QUEL-1513/84] 15 p2256 N84-24552
Airbus A-310. Tests in the ONERA's F1 wind tunnel: Comparison of flight/wind tunnel
[SNIAS-832-111-110] 15 p2257 N84-24556
The structural and aerodynamic behaviour of a semi-inflatable wing
[BU-297] 15 p2260 N84-24574
Installation noise measurements of model SR and CR propellers
[NASA-TM-85790] 15 p2403 N84-25425
Acoustic measurements of a full-scale rotor with four tip shapes. Volume 2: Appendices C, D, E and F
[NASA-TM-85878-VOL-2] 15 p2403 N84-25426
Nitrogen threshold experiment
15 p2427 N84-25578
V/STOL wind-tunnel testing 16 p2437 N84-25633
Rotary balance data for a typical single-engine general aviation design for an angle-of-attack range of 20 to 90 deg. 3: Influence of control deflection on predicted model D spin modes
[NASA-CR-3248] 16 p2438 N84-25641
Wind tunnel investigation of the rolling moment of a rectangular wind with some winglets on the left upper tip
[NAL-TR-788] 16 p2440 N84-25650
Aerodynamic characteristics of fan-jet STOL aircraft
[NAL-TR-790] 16 p2440 N84-25651
Wind tunnel investigations on thin supercritical airfoils in the high subsonic flow regime
[ESA-TT-774] 16 p2440 N84-25652
Shuttle flight data analysis 16 p2441 N84-25659
Hypersonic test facilities 16 p2441 N84-25661
A numerical study of the controlled flow tunnel for a high lift model 16 p2452 N84-25721
Modification of NASA Langley 8 foot high temperature tunnel to provide a unique national research facility for hypersonic air-breathing propulsion systems
[NASA-TM-85783] 16 p2454 N84-25733
Experimental investigation of two-dimensional shock boundary layer interactions 16 p2485 N84-25938
Measurement of the flow field behind harmonically oscillating gust generators in the model subsonic wind tunnel (MUK)
[ESA-TT-806] 16 p2487 N84-25953
The ONERA Aeronautics Research Establishment in Cannes (France)
[ONERA-P-1983-2] 16 p2565 N84-26455
Natural laminar flow experiments on modern airplane surfaces
[NASA-TP-2256] 17 p2599 N84-26660
Low-speed investigation of effects of wing leading- and trailing-edge flap deflections and canard incidence on a fighter configuration equipped with a forward-swept wing
[NASA-TM-85795] 17 p2600 N84-26667
Fan blade shake test results for the 40- by 80-foot/80- by 120-foot wind tunnel
[NASA-TM-85859] 17 p2618 N84-26753
Measured transonic unsteady pressures on an energy efficient transport wing with oscillating control surfaces
18 p2783 N84-27663
Selected advanced aerodynamic and active control concepts development
[NASA-CR-3469] 18 p2788 N84-27683
KC-135 Winglet Program Review
[NASA-CP-2211] 18 p2787 N84-27686
KC-135 winglet program overview
18 p2787 N84-27687
Comparison of flight measured, predicted and wind tunnel measured winglet characteristics on a KC-135 aircraft 18 p2787 N84-27691
Two-dimensional aerodynamic characteristics of an airfoil designed for two
[NASA-TP-1965] 18 p2788 N84-27694
Experimental investigation of elastic mode control on a model of a transport aircraft
[NASA-CR-3472] 18 p2792 N84-27721
Experimental studies of flow separation of three airfoils at low speeds
[NASA-CR-3530] 19 p2956 N84-28736
Study of aerodynamic technology for single-cruise engine V/STOL fighter/attack aircraft
[NASA-CR-166271] 19 p2956 N84-28737
Wind tunnel tests of high-lift systems for advanced transports using high-aspect-ratio supercritical wings
[NASA-CR-3523] 19 p2957 N84-28742
A preliminary design study on an acoustic muffler for the laminar flow transition research apparatus
[NASA-CR-172374] 19 p2958 N84-28748
A numerical simulation of three-dimensional flow in an adaptive wall wind tunnel
[NASA-TP-2351] 19 p2958 N84-28750
An experimental investigation of the aerodynamic effects of forward facing wedges on the upper surface and leading edge of an aerofoil, with emphasis at high angles of attack
[AD-A142053] 19 p2959 N84-28755
Comparative measurements of the unsteady pressures on three oscillating wing-tip models
[DFVLR-FB-84-07] 19 p2960 N84-28758
Wind tunnel material test to quantify Space Shuttle external tank insulation requirements
[AD-A141563] 19 p2961 N84-28890
Real jet effects on dual jets in a crossflow
[NASA-CR-173817] 19 p3022 N84-29161
An analytical study of a locally cooled high Reynolds number simulation technique
[AD-A141062] 19 p3023 N84-29170
Fuel savings potential of the NASA Advanced Turboprop Program
[NASA-TM-83736] 20 p3130 N84-29878
Wall pressure signature wind-tunnel wall-constraint correction methods
[BAE-ARG-188] 20 p3132 N84-29887
Magnetic suspension and balance system study
[NASA-CR-3802] 20 p3132 N84-29888
Half-model testing in the NLR high speed wind tunnel (HST)
[NLR-TR-82123-U] 20 p3132 N84-29891
Description and validation of the two dimensional test setup for multiple airfoils in the pressurized wind tunnel HST
[NLR-TR-83031-U] 20 p3132 N84-29892
Wind tunnel tests on a tube-launched missile configuration with a deflectable nose control and a novel wrap-around fin stabiliser
[AD-A142082] 20 p3134 N84-29900
Effect of radial load distribution on the first-harmonic inflow velocity of a helicopter rotor at transition speeds
[AD-A142840] 21 p3325 N84-31100
Turbulent diffusion behind vehicles: Experiments and verification of roadway models
[PB84-194273] 21 p3326 N84-31101
Aerothermodynamic data base, phase C
[NASA-CR-173862] 21 p3351 N84-31259
Results of the AFRSI detailed-environment test of the 0.035-scale SSV pressure-loads model 84-0 in the Ames 11x11 ft. TWT and the Lewis 8x6 ft. and 10x10 ft. SWT (OA-310A, B, C), volume 2
[NASA-CR-167686] 21 p3351 N84-31260
Results of the AFRSI detailed-environment test of the 0.035-scale SSV pressure-loads model 84-0 in the Ames 11x11 ft. TWT and the Lewis 8x6 ft. and 10x10 ft. SWT (OA-310A, B, C), volume 1
[NASA-CR-167685] 21 p3352 N84-31261
Gasdynamic study of model with combustion in shock tunnel 21 p3481 N84-32061
Subsonic and transonic unsteady- and steady-pressure measurements on a rectangular supercritical wing oscillated in pitch — wind tunnel tests
[NASA-TM-85765] 22 p3530 N84-32348
JT15D simulated flight data evaluation
[NASA-CR-172322] 22 p3536 N84-32367
Technical evaluation report on the Fluid Dynamics Panel Symposium on Wind Tunnels and Testing Techniques
[AGARD-AR-193] 22 p3539 N84-32402
Columbia: The first five flights. Entry heating data series. Volume 6: The upper leeside surface centerline
[NASA-CR-171795] 22 p3541 N84-32414
Aerothermodynamic data base
[NASA-CR-171807] 22 p3541 N84-32415
Kasprzyk airfoil. The first wind-tunnel tests
[NASA-TM-77757] 23 p3689 N84-33380
High Reynolds number tests of the cast 10-2/DOA 2 airfoil in the Langley 0.3-meter transonic cryogenic tunnel, phase 2
[NASA-TM-86273] 23 p3689 N84-33382
Data from tests of a R4 airfoil in the Langley 0.3-meter transonic cryogenic tunnel
[NASA-TM-85739] 23 p3690 N84-33385
Sidewall boundary layer corrections in subsonic, 2-dimensional airfoil-hydrofoil testing
[AD-A144002] 23 p3691 N84-33391
Design study of test models of maneuvering aircraft configurations for the National Transonic Facility (NTF)
[NASA-CR-3827] 23 p3696 N84-33422

An experimental investigation of the effect of boundary layer refraction on the noise from a high-speed propeller
[NASA-TM-83764] 23 p3821 N84-34230
Wake profile measurements of fixed and oscillating flaps
[NASA-CR-166602] 24 p3852 N84-34428
A new method of evaluating the side wall interference effect on airfoil angle of attack by suction from the side walls
[NASA-TM-77722] 24 p3852 N84-34432
Three-dimensional laser Doppler anemometer measurements of a jet in a crossflow
[NASA-TM-85997] 24 p3900 N84-34695

WIND TUNNEL WALLS
A new method of estimating wind tunnel wall interference in the unsteady two-dimensional flow
[AD-A130475] 01 p0004 N84-10029
Three-dimensional test experience with a transonic adaptive-wall wind tunnel
[AD-A129658] 01 p0016 N84-10102
Wind tunnel wall interference
[AD-A131396] 02 p0175 N84-11149
Laminarization of a boundary layer in a supersonic nozzle by cooling of the surface
[NASA-TM-77341] 05 p0626 N84-14119
Tests on a CAST 7 two-dimensional airfoil in a streamlining test section
[NASA-CR-172291] 08 p1097 N84-17136
A cooperative program to stimulate student involvement through the MIT Undergraduate Research Opportunity Program
[NASA-CR-173300] 08 p1237 N84-18086
Adaptation of two-dimensional transonic analysis code, TSFOIL, for use in modeling adaptive wall test sections
08 p1238 N84-18089
Development of a wind tunnel test section with adaptive flexible walls for three-dimensional flow
[BMFT-FB-W-83-026] 10 p1495 N84-19776
Potential flow through a cascade of alternately displaced circular bodies: The rod-wall wind tunnel boundary conditions
[NASA-TM-85750] 11 p1601 N84-20487
The status of analytical preparation for 2-dimensional testing at high transonic speeds in the University of Southampton transonic self-streamlining wind tunnel
[NASA-CR-3785] 11 p1602 N84-20494
Two-dimensional wind tunnel wall interference
[AD-A138864] 11 p1603 N84-20499
La Recherche Aerospatiale, Bimonthly bulletin, number 1983-4, 215/July-August
[ESA-TT-823] 13 p1935 N84-22589
The T2 cryogenic wind tunnel with self-adaptable walls at ONERA/CERT 14 p2095 N84-23567
A review and an update of the FDP Specialists Meeting (London) on Wall Interference in Wind Tunnels
14 p2095 N84-23570
A short note on recent advances in the adaptive wall technique for 3D-model tests at the TU-Berlin
14 p2095 N84-23571
Disturbances from ventilated tunnel walls in aerofoil testing 14 p2096 N84-23573
Nonadiabatic model wall effects on transonic airfoil performance in a cryogenic wind tunnel
14 p2096 N84-23579
Prediction of resonance frequencies for ventilated wall wind tunnels 14 p2097 N84-23580
Half-model testing in the NLR high speed wind tunnel HST: Its technique and application
14 p2098 N84-23588
New TPS calibration bench, and ejector tests — wind tunnel turbines and powered models
14 p2099 N84-23594
Half-model testing in the NLR High Speed Tunnel (HST): Its technique and application
[NLR-MP-83036-U] 17 p2601 N84-26675
Computation of imaginary-side pressure distributions over the flexible walls of the test section insert for the 0.3-M transonic cryogenic tunnel
[NASA-CR-172363] 18 p2785 N84-27678
Study of asymptotic theory of transonic wind tunnel wall interference
[AD-A141431] 19 p2958 N84-28751
The influence of a wind tunnel on helicopter rotational noise: Formulation of analysis
[NASA-TM-85962] 20 p3290 N84-30687
Technical evaluation report on the Fluid Dynamics Panel Symposium on Wind Tunnels and Testing Techniques
[AGARD-AR-193] 22 p3539 N84-32402
Aerodynamic design of the contoured wind-tunnel liner for the NASA supercritical, laminar-flow-control, swept-wing experiment
[NASA-TP-2335] 23 p3688 N84-33377
A new method of evaluating the side wall interference effect on airfoil angle of attack by suction from the side walls
[NASA-TM-77722] 24 p3852 N84-34432

WIND TUNNELS
NT BLOWDOWN WIND TUNNELS
NT CRYOGENIC WIND TUNNELS
NT HYPERSONIC WIND TUNNELS
NT LOW DENSITY WIND TUNNELS
NT LOW SPEED WIND TUNNELS
NT SHOCK TUNNELS
NT SLOTTED WIND TUNNELS
NT SUBSONIC WIND TUNNELS
NT SUPERSONIC WIND TUNNELS
NT TRANSONIC WIND TUNNELS
Proposed fast-response oxygen monitoring and control system for the Langley 8-foot high-temperature tunnel
[NASA-TP-2218] 02 p0223 N84-11460
Performance measurements of a pilot superconducting solenoid model core for a wind tunnel magnetic suspension and balance system
[NASA-CR-172243] 03 p0338 N84-12192
Acta Mechanica Sinica (selected articles)
[AD-A131871] 03 p0372 N84-12422
Correlations of supersonic boundary-layer transition on cones including effects of large axial variations in wind-tunnel noise
[NASA-TP-2229] 08 p1157 N84-17534
Experimental blade vortex interaction noise characteristics of a utility helicopter at 1/4 scale
[NASA-TM-84653] 08 p1227 N84-18018
Hot wire in low Reynolds number flow
08 p1237 N84-18087
Flow behavior in the Wright Brothers Facility
[WBWT-TR-1187] 08 p1237 N84-18088
High altitude maneuver control tests in the NSWC (Naval Surface Weapons Center) hypervelocity wind tunnel
[AD-A136105] 09 p1253 N84-18178
Design and evaluation of a pulsating-flow wind tunnel
[PB84-116086] 09 p1260 N84-18223
Simulation applications at NASA Ames Research Center
[NASA-TM-85846] 10 p1432 N84-19362
Effects of a porous plug on orifice induced static pressure error 12 p1764 N84-21507
A wind tunnel database using RIM
12 p1891 N84-22313
Wind Tunnels and Testing Techniques
[AGARD-CP-348] 14 p2094 N84-23564
Ground/flight test techniques and correlation
14 p2096 N84-23574
Definition, sources and lowest possible levels of wind-tunnel turbulence 14 p2096 N84-23576
An evaluation of factors affecting the flow quality in wind tunnels 14 p2096 N84-23577
Prediction of resonance frequencies for ventilated wall wind tunnels 14 p2097 N84-23580
Propeller and rotor noise testing in aeroacoustic wind tunnels 14 p2097 N84-23583
Aerodynamic characteristics of the 40- by 80/80- by 120-foot wind tunnel at NASA Ames Research Center
[NASA-TM-85946] 14 p2104 N84-23622
A numerical study of the controlled flow tunnel for a high lift model
[NASA-CR-166572] 16 p2438 N84-25642
A numerical study of the controlled flow tunnel for a high lift model 16 p2452 N84-25721
The ONERA Aeronautics Research Establishment in Cannes (France)
[ONERA-P-1983-2] 16 p2565 N84-26455
Langley aeronautics and space test highlights, 1983
[NASA-TM-85806] 16 p2583 N84-26564
A preliminary design study on an acoustic muffler for the laminar flow transition research apparatus
[NASA-CR-172374] 19 p2958 N84-28748
A numerical simulation of three-dimensional flow in an adaptive wall wind tunnel
[NASA-TP-2351] 19 p2958 N84-28750
A comparison of wind tunnels suitable for rotorcraft noise studies 19 p3096 N84-29665
Facility requirements for helicopter noise research
19 p3097 N84-29672
Computer studies of hybrid-slotted working sections with minimum interference at subsonic speeds
[NASA-TM-86002] 22 p3535 N84-32379
Refined methods of aeroelastic analysis and optimization — swept wings, propeller theory, and subsonic flutter
[NASA-CR-173967] 23 p3760 N84-33835

WIND TURBINES
Status of wind-turbine wakes research in the federal wind energy program
[DE83-013828] 01 p0005 N84-10033
Rotating-boom facility for evaluation of wind characteristics approaching a wind-turbine blade
[DE83-013117] 01 p0017 N84-10107
Flow-visualization study of the MOD-2 wind-turbine wake
[DE83-014391] 01 p0080 N84-10523
How to protect a wind turbine from lightning
[NASA-CR-168229] 01 p0102 N84-10661
Examination, evaluation and repair of laminated wood blades after service on the Mod-OA wind turbine
[NASA-TM-83483] 01 p0102 N84-10664
North Wind 4-kilowatt wind-system development. Phase 1: Design and analysis. Volume 1: Executive summary
[DE83-012278] 01 p0103 N84-10668
Making use of wind energy: A course in evaluating and choosing sites for small wind machines
[DE83-014945] 01 p0109 N84-10707
Acoustic ranging technique with application to assessment of low-frequency acoustic noise of wind turbines
[DE83-009106] 01 p0140 N84-10921
Status of the vertical-axis wind-trubine program, 1983
[DE83-013098] 02 p0229 N84-11504
Growian rotorblades: Production development, construction and test
[BMFT-FB-T-83-111] 02 p0233 N84-11526
Acoustical measurements of DOE/NASA MOD-0 wind turbine at Plum Brook Station, Ohio
[DE83-011971] 02 p0242 N84-11584
Construction of two wind turbines AEROMAN 11/11 for Indonesia
[BMFT-FB-T-83-143] 03 p0384 N84-12505
A comparison of finite-element predictions and experimental data for the forced response of the DOE 100 kW vertical-axis wind turbine
[DE83-012624] 03 p0389 N84-12537
Heating with wind energy, part B
[BMFT-FB-T-83-131-PT-B] 03 p0405 N84-12651
MOD-2 wind turbine development
[NASA-TM-83460] 04 p0557 N84-13670
Improved generator for use with low-speed rotating machines
[DE84-000375] 05 p0676 N84-14448
Use of the WEST-1 wind turbine simulator to predict blade fatigue load distribution
[NASA-TM-83532] 05 p0699 N84-14586
Wind energy concentration within vortex flow fields and its utilization for the generation of energy, phase 1
[BMFT-FB-T-83-157] 05 p0700 N84-14591
Recent advances in variable speed electrical generator systems for large wind turbines
[DE84-001833] 06 p0830 N84-15404
Aeroelastic analysis of a Darrieus type wind turbine blade with troposkien geometry 06 p0863 N84-15623
Assessment of load-frequency-control impacts caused by small wind turbines
[DE82-011513] 06 p0872 N84-15677
The SERI advanced and innovative wind energy concepts program
[DE83-011980] 06 p0873 N84-15680
Scaling wind characteristics for designing small and large wind turbines
[DE83-014501] 06 p0880 N84-15728
Wind-powered heat pump experiment
[DE84-003141] 07 p1026 N84-16647
Frequency and mode shape calculations for vertical axis wind turbines using reduction techniques and complex eigensolvers
[DE84-003316] 08 p1172 N84-17633
The effects of blade mounted vortex generators on the noise from a MOD-2 wind turbine generator
[NASA-CR-172292] 08 p1227 N84-18017
Analysis of sound produced by wind turbines in turbulent flow
[FFA-TN-1983-44] 09 p1387 N84-19057
Television interference measurements near the MOD-2 WT array at Goodnoe Hills, Washington
[DE84-000030] 10 p1482 N84-19688
Wind energy systems program summary, fiscal years 1981 and 1982
[DE84-002958] 11 p1673 N84-20919
WECS - load controlled pitch - variable load conversion to heat
[DE84-005328] 11 p1674 N84-20922
Identification of airfoil characteristics for optimum wind turbine performance 12 p1765 N84-21510
Method for determining how to operate and control wind turbine arrays in utility systems
[DE84-005817] 12 p1813 N84-21817
Investigation of the laminar turbulent boundary layer transition on the rotor blades of the 25 m wind turbine HAT
[VTH-LR-390] 12 p1817 N84-21844
Thermal stress analysis for a wood composite blade — wind turbines
[NASA-CR-173394] 12 p1826 N84-21903
Matching wind turbine rotors and loads: Computational methods for designers
[DE84-006921] 12 p1843 N84-22019
Wind and solar powered turbine
[NASA-CASE-NPO-15496-1] 13 p2007 N84-23018

Comparison of finite element predictions and experimental data for the forced response of the DOE 100 kW vertical axis wind turbine
[DE84-007977] 14 p2159 N84-23932
Rocky Flats Wind Energy Research Center, fiscal year 1982
[DE84-006829] 14 p2173 N84-24013
Small wind systems (field evaluation). Volume 4: Small wind system performance data
[DE84-008920] 14 p2173 N84-24014
Simulation of winds as seen by a rotating vertical axis wind turbine blade
[DE84-009033] 14 p2180 N84-24056
Investigate alternative interconnection strategies for arrays of wind turbine generators
[ORNL/SUB-82-69604/1] 16 p2512 N84-26120
A fundamental study of relation between the velocity fields far upstream of, at and far downstream of a a rotor disk in a shear flow — wind turbine flow
[FFA-136] 17 p2667 N84-27006
Linearized model for wind turbines in yaw 17 p2722 N84-27325
Large, horizontal-axis wind turbines
[NASA-TM-83546] 17 p2722 N84-27327
Corrosion fatigue of high strength fastener materials in seawater
[NASA-CR-174677] 17 p2723 N84-27328
A description of two methods for calculation of low frequency wind turbine noise, including applications for the Swedish prototype Wind Energy Conversion System (WECS) Maglarp
[FFA-TN-1983-31] 18 p2876 N84-28262
Dynamic behavior of wind turbines
[NLR-MP-83047-U] 18 p2876 N84-28263
Modeling of the overall aeroelastic system of a wind turbine aided by symbolic programming
[DFVLR-FB-84-10] 18 p2877 N84-28265
Growian rotor blades: Production development, construction and test
[NASA-TM-77479] 19 p2965 N84-29793
Effect of vortex generators on the power conversion performance and structural dynamic loads of the Mod-2 wind turbine
[NASA-TM-83680] 19 p3049 N84-29347
Wind turbine generator interaction with conventional diesel generators on Block Island, Rhode Island. Volume 1: Executive summary
[NASA-CR-168318] 19 p3050 N84-29357
Optimization of wind turbine design for SWECS
[DE84-009759] 19 p3051 N84-29363
Wind energy converter GROWIAN 2
[BMFT-FB-T-84-063] 19 p3051 N84-29364
Passive yaw damping of a teetered rotor versus delta-3 angle values
[DE84-009758] 20 p3236 N84-30545
Overview of wind turbine siting considerations
[DE84-011686] 20 p3237 N84-30547
Thermal-stress analysis for wood composite blade — horizontal axis wind turbines
[NASA-CR-173830] 21 p3419 N84-31685
NASTRAN-based computer program for structural dynamic analysis of horizontal axis wind turbine
[DE84-011257] 21 p3423 N84-31713
Wind turbine generator interaction with conventional diesel generators on Block Island, Rhode Island. Volume 2: Data analysis
[NASA-CR-168319] 21 p3433 N84-31783
Jet spoiler arrangement for wind turbine
[DE84-011303] 21 p3434 N84-31787
Analysis of wind turbines in yaw
[DE84-013620] 21 p3435 N84-31794
Wind energy systems for electric utilities: A synthesis of value studies
[DE84-004520] 21 p3435 N84-31796
Measurement of turbulent wind velocities using a rotating boom apparatus
[DE84-012417] 21 p3448 N84-31875
US annual average wind power
[DE84-012215] 21 p3448 N84-31877
Acoustic tests of the MOD-O/5A wind turbine rotor with two different ailerons
[NASA-CR-172427] 21 p3491 N84-32120
Design of a digital telemetry data collection system
[DE84-013916] 22 p3541 N84-32420
Large HAWT (Horizontal-Axis Wind Turbine) wake measurement and analysis
[DE84-013269] 22 p3596 N84-32772
Verification of hourly forecasts of wind turbine power output
[PNL-4900] 22 p3616 N84-32914
Investigation of Doubly-Fed Machine in Variable Speed Applications
[DE84-012943] 22 p3618 N84-32928
Wind shear for large wind turbine generators at selected tail tower sites
[DE84-011790] 22 p3626 N84-32974
Wake studies at the flowind vertical axis wind turbine generator site
[DE84-014837] 23 p3691 N84-33392
Measuring and data evaluation systems at the wind test site Pellworm
[GKSS-84-E-12] 23 p3791 N84-34044
Wind energy. M.A.N. systems and their efficiency 23 p3791 N84-34046
Rotationally sampled wind characteristics and correlations with MOD-OA wind turbine response
[PNL-5238] 24 p3916 N84-34794

WIND VARIATIONS
The west spitsbergen current: Transport, forcing, and variability
[AD-A137532] 11 p1691 N84-21032
Waves recorded off the Eddystone lighthouse. Data for September 1978 to August 1981 at position 50 deg 10 min N, 004 deg 15 min W: Summary analysis and interpretation report
[IOS-132] 13 p2019 N84-23090
Turbulent pulsations of horizontal and vertical wind velocity components in clouds of different genera 17 p2697 N84-27182
Passive yaw damping of a teetered rotor versus delta-3 angle values
[DE84-009758] 20 p3236 N84-30545

WIND VELOCITY
NT SOLAR WIND VELOCITY
Three-dimensional model for wind flow and pollutant transport-diffusion over complex terrain 02 p0243 N84-11591
Range reference atmosphere 0-70Km altitude, Wallops Island, Virginia
[AD-A131327] 02 p0254 N84-11681
Wind-speed extremes in the Northern Hemisphere, 30 through 60 km
[AD-A132019] 03 p0410 N84-12682
Optical extinction coefficients beneath marine stratus clouds. Comparison of coefficients calculated from observed aerosol spectra with coefficients specified by the Navy aerosol model
[AD-A132011] 03 p0410 N84-12685
Solar cycle evolution of the solar wind in three dimensions 03 p0469 N84-13090
Radial evolution of ion distribution functions 03 p0470 N84-13094
A comparison of frequency determination using real sodar data
[DE83-017942] 04 p0564 N84-13718
Range reference atmosphere 0-70 km altitude
[AD-A132487] 04 p0567 N84-13737
County-level wind resource estimates for DOE Region 5
[DE84-000009] 04 p0568 N84-13744
Simulation and interpretation of polarization diversity radar spectral functions
[AD-A132622] 05 p0670 N84-14402
AFCRL (Air Force Cambridge Research Laboratories) acoustic wind sensor system
[AD-A133739] 05 p0708 N84-14641
Wind speed, stability category, and atmospheric turbulence at selected locations
[AD-A132947] 05 p0709 N84-14645
Worldwide experience of wind shear during 1981-1982 06 p0776 N84-15087
Alternative experiments using the geophysical fluid flow cell
[NASA-CR-3766] 06 p0877 N84-15706
Gusts simulation for flight-mechanical investigations in wind tunnels 07 p0944 N84-16127
On the estimation of zero-plane displacement for tall vegetation
[INPE-2946-PRE/430] 07 p1023 N84-16634
Meteorological yearbook of Finland, volume 77, part 1b. Climatological data from Jokioinen and Sodankylae Observatories, 1977
[ISBN-951-697-189-X] 07 p1035 N84-16713
A study of the dependence of radar backscatter cross section on wind speed and wave slope from the MARSEN experimental results (a contribution to studies of radar backscattering from the sea surface). Supplement to final report
[AD-A135041] 08 p1144 N84-17441
Wind speed and direction shears with associated vertical motion during strong surface winds
[NASA-TM-82566] 08 p1190 N84-17756
Flight measurement and analysis of AAFE RADSCAT wind speed signature of the ocean
[NASA-TM-85646] 08 p1194 N84-17784
Sea salt aerosol, atmospheric radon and meteorological observations in the western South Atlantic Ocean (February 1981)
[AD-A134792] 08 p1195 N84-17794
Diffusion of particulate matter and wind speed profile in planetary boundary layer
[AD-A135961] 09 p1345 N84-18790
Tropical cyclone wind probability forecasting for the southern hemisphere (WINDPSH)
[AD-A136146] 09 p1350 N84-18817
Relation of urban model performance to stability
[PB84-130418] 11 p1678 N84-20940
A numerical analysis of the effect of inhomogeneity and wind speed shear on the vertical dispersion in the mesoscale range
[AD-A137186] 11 p1688 N84-21006
SASS wind forecast impact studies using the GLAS and NEPRF systems: Preliminary conclusions 12 p1851 N84-22055
Ascension Island, South Atlantic Range reference atmosphere, 0.66 km altitude
[AD-A138470] 12 p1861 N84-22122
A compound Weibull model for the description of surface wind velocity distributions
[KNMI-WR-83-13] 12 p1862 N84-22129
Distortion of the wind field by the Cabauw meteorological tower
[KNMI-WR-83-15] 12 p1862 N84-22130
Performance and size estimating for wind systems
[DE84-006980] 13 p2009 N84-23033
Meteorological investigations at the wind test site Pellworm
[GKSS-83-E-61] 13 p2018 N84-23062
Velocities of windblown particles in saltation: Venus, Earth, and Mars 13 p2062 N84-23491
Experimental wind forecasts from the local AFOSMOS (Automation of Field Operations and Services Model Output Statistics) program
[PB84-155514] 14 p2180 N84-24062
Single Doppler velocity signatures: An Atlas of patterns in clean air/widespread precipitation and convective storms
[PB84-155779] 14 p2181 N84-24063
Development of a simple wind speedometer for application in countries of the developing world
[BMFT-FB-T-83-310] 15 p2336 N84-25022
Meteorological measurements in the Northern German coastal area for wind energy prospection
[BMFT-FB-T-84-017] 16 p2529 N84-26241
Determination of stratospheric wind profiles by digital analysis
[AD-A140502] 16 p2531 N84-26251
Radar observations of inertial period waves in the lower stratosphere over Arecibo 17 p2683 N84-27081
Turbulent pulsations of horizontal and vertical wind velocity components in clouds of different genera 17 p2697 N84-27182
Influence of wind on rate of gas exchange through ocean-atmosphere interface 17 p2699 N84-27190
Does the scatterometer see wind speed or friction velocity? 17 p2713 N84-27270
Microwave remote sensing of ocean surface wind speed and rain rates over tropical storms 17 p2716 N84-27288
Wind velocity and temperature profiles in atmospheric surface layer for neutral and unstable stratification conditions 18 p2865 N84-28189
Radionuclide counting technique for measuring wind velocity and direction
[NASA-CASE-LAR-12971-1] 18 p2883 N84-28292
Doppler weather radar applications to terminal and enroute air traffic control 18 p2887 N84-28324
Directional extreme wind speed data for the design of buildings and other structures
[PB84-178847] 20 p3171 N84-30139
Quasi-two-day variation of lower thermosphere wind velocities 20 p3224 N84-30488
High yield wind energy resources in the mid-Hudson River basin
[PB84-184951] 20 p3234 N84-30530
Operation and calibration of the Windcharger 450 model SWECS
[DE84-009757] 20 p3237 N84-30546
Natural phenomena hazards modeling project: Extreme wind-tornado hazard models for Department of Energy sites
[DE84-011157] 20 p3247 N84-30606
Overground Excess Sound Attenuation (ESA). Volume 2: Analysis of data for flat grassy terrain conditions
[AD-A142420] 20 p3291 N84-30892
The 6M x 8M low speed wind tunnel 21 p3345 N84-31221
Measurement of turbulent wind velocities using a rotating boom apparatus
[DE84-012417] 21 p3448 N84-31875
Surface winds in some Alaskan passes
[PB84-194745] 21 p3450 N84-31895
Aircraft liftmeter
[NASA-CASE-LAR-12518-1] 22 p3535 N84-32383
Wind shear for large wind turbine generators at selected tail tower sites
[DE84-011790] 22 p3626 N84-32974

Comparison of sea surface wind speed fields by SEASAT radar altimeter, scatterometer and scanning multichannel microwave radiometer with an emphasis on the Southern Ocean 23 p3774 N84-33922

WIND VELOCITY MEASUREMENT

Test application of a semi-objective approach to wind forecasting for wind-energy applications
[DE83-016641] 02 p0256 N84-11676

Contributions of remote sensing satellite tracking techniques to marine environment monitoring and marine applications 03 p0396 N84-12585

Results of foil cloud experiments performed at Esrange (Kiruna, Sweden) and Andenes (Andoya, Norway) during the Energy Budget Campaign, November 1981 — wind measurement
[BMFT-FB-W-83-012] 07 p1034 N84-16710

Doppler lidar signal and turbulence study
[NASA-CR-170976] 08 p1163 N84-17574

Workshop on active microwave sensor design 08 p1177 N84-17667

Potential impact of remote sensing data on sea-state analysis and prediction
[E84-10083] 10 p1520 N84-19954

The spaced antenna drift method 17 p2687 N84-27107

Estimating unbiased horizontal velocity components from ST/MST radar measurements: A case study 17 p2687 N84-27110

Accuracy of vertical velocity determination 17 p2687 N84-27112

Effects of geophysical noise on the accuracy of wind determination 17 p2687 N84-27113

Techniques for studying gravity waves and turbulence: Vertical wind speed power spectra from the troposphere and stratosphere obtained under light wind conditions 17 p2688 N84-27120

Measurement of the horizontal velocity of wind perturbations in the middle atmosphere by spaced MF radar systems 17 p2688 N84-27121

Ocean wind field measurement performance of the ERS-1 scatterometer 17 p2713 N84-27273

Operation and calibration of the Windcharger 450 model SWECS
[DE84-009757] 20 p3237 N84-30546

Wind energy assessment for western Maryland
[PB84-184613] 20 p3237 N84-30553

Prediction of slant wind shear with an offset tower observation system
[AD-A142676] 20 p3246 N84-30600

Natural phenomena hazards modeling project: Extreme wind-tornado hazard models for Department of Energy sites
[DE84-011157] 20 p3247 N84-30608

Regional wind energy assessment program
[DE84-011832] 21 p3448 N84-31878

Airborne wind measurements at Cape Blanco, Oregon
[DE84-013662] 21 p3448 N84-31880

Aircraft liftmeter
[NASA-CASE-LAR-12518-1] 22 p3535 N84-32383

Air data position-error calibration using state reconstruction techniques
[NASA-TM-86029] 22 p3535 N84-32384

Basic principles and recent observations of rotationally sampled wind
[DE84-013267] 22 p3626 N84-32976

Morphology and development of organized convection in the boundary layer 24 p3930 N84-34880

WINDING

NT FILAMENT WINDING
NT HELICAL WINDINGS

Unipolar machine with superconductive excitation winding
[AD-A131820] 03 p0366 N84-12383

Influence of unbalanced three-phase current on characteristics of high-speed LIM 07 p0983 N84-16365

Brushless self-excited type three-phase synchronous motor driven by GTO inverter 07 p0983 N84-16366

A mathematical model for the doubly-fed wound rotor generator, part 2
[NASA-TM-83561] 08 p1149 N84-17479

Extra losses in the inductor windings of induction heaters and electric machines
[BLL-OA-TRANS-3114-(6196.3)] 09 p1306 N84-18534

Electromagnetic levitation coil fabrication technique for MSFC containerless processing facilities
[NASA-TM-82565] 09 p1306 N84-18535

Criteria for accuracy of rotary transformers 17 p2635 N84-26857

Distributed pulse forming network for magnetic modulator
[AD-D011062] 23 p3791 N84-34041

WINDMILLING

U AUTOROTATION

WINDMILLS (WINDPOWERED MACHINES)

Vertical shaft windmill
[NASA-CASE-LAR-12923-1] 03 p0383 N84-12493

Zoning for wind machines: A guide for Minnesota communities
[PB84-129568] 10 p1531 N84-20027

Wind electric generator project
[DE84-006747] 12 p1843 N84-22013

Oscillating wind energy conversion systems
[DE84-000087] 12 p1843 N84-22018

An appraisal of straight bladed vertical and horizontal windmills
[PP-127] 18 p2876 N84-26264

Coupling an induction motor type generator to ac power lines — making windmill generators compatible with public power lines
[NASA-CASE-MFS-25302-2] 23 p3734 N84-33660

WINDOWS

Photodetachment neutralizer development. Laser-resonator study. Volume 1: Summary
[DE84-001682] 06 p0851 N84-15547

Polycrystalline MgAl2O4 spinel for high performance windows
[AD-P003202] 17 p2592 N84-26615

Specialty coatings for increased service life of acrylic aircraft transparencies, part 2
[AD-P003206] 17 p2593 N84-26619

WINDOWS (APERTURES)

Light-scattering studies of silica aerogels
[DE83-015412] 02 p0201 N84-11308

Study of noise transmission through double wall aircraft windows
[NASA-CR-172182] 02 p0287 N84-11884

Engineering hot-cell windows for radiation protection — for remote handling of radioactive materials
[DE83-014675] 03 p0356 N84-12319

Field maintenance of radiation-shielding windows at HFEF
[DE83-015376] 04 p0507 N84-13326

Infrared monitoring of gyrotron windows
[DE84-004442] 10 p1499 N84-19799

Evaluating multiple coordinated windows for programming workstations 13 p2027 N84-23146

Light transmitting window assembly
[NASA-CASE-MSC-18417-1] 13 p2042 N84-23251

Achievements and plans of the Solar Thermal Advanced Research Center
[DE84-005480] 14 p2172 N84-24010

The predicted impact of linear roof apertures on the energy performance of office buildings 16 p2514 N84-26133

Performance monitoring highlights of BERD programs 16 p2516 N84-26146

Advanced optical and thermal technologies for aperture control 16 p2517 N84-26156

Transparent aerogels for low-conductance windows 16 p2517 N84-26157

Variable transmittance electrochromic windows 16 p2517 N84-26158

Optics and materials research for controlled radiant energy transfer in buildings 16 p2517 N84-26159

DOE-2, supplement, version 2.1B
[LBL-8706-REV-3-SUPPL] 16 p2519 N84-26171

Some crazing experiments on As-cast acrylic to MIL-P-8184
[AD-P003196] 17 p2591 N84-26609

NASTRAN analysis of nuclear effects on helicopter transparencies
[AD-P003234] 17 p2597 N84-26647

Evaluation of an improved flame resistant aircraft window system
[FAA-CT-83-10] 17 p2603 N84-26680

Field repair of AH-16 helicopter window cutting assemblies
[NASA-TM-85831] 20 p3128 N84-29864

Fire induced flows through room openings - flow coefficients
[PB84-176759] 20 p3151 N84-30011

Electrochromic materials for the regulation of solar energy transmission through windows
[DE84-012165] 20 p3311 N84-31029

Laser window with annular grooves for thermal isolation
[DE84-011114] 21 p3410 N84-31625

WINDOWS (INTERVALS)

NT LASER WINDOWS

WINDPOWER UTILIZATION

Status of wind-turbine wakes research in the federal wind energy program
[DE83-013828] 01 p0005 N84-10033

Rotating-boom facility for evaluation of wind characteristics approaching a wind-turbine blade
[DE83-013117] 01 p0017 N84-10107

Evaluation of pumps for wind-driven irrigation
[DE83-013438] 01 p0090 N84-10587

Proceedings of the United States Air Force and Tri-Service Wind Energy Workshop and Conference
[AD-A130697] 01 p0103 N84-10666

Tornado Wind Energy Conversion System (TWECS) evaluation program
[PB83-227207] 01 p0103 N84-10669

Making use of wind energy: A course in evaluating and choosing sites for small wind machines
[DE83-014945] 01 p0109 N84-10707

Test application of a semi-objective approach to wind forecasting for wind-energy applications
[DE83-016641] 02 p0256 N84-11676

Heating with wind energy, part B
[BMFT-FB-T-83-131-PT-B] 03 p0405 N84-12651

MOD-2 wind turbine development
[NASA-TM-83460] 04 p0557 N84-13670

County-level wind resource estimates for DOE Region 5
[DE84-000009] 04 p0568 N84-13744

Wind energy concentration within vortex flow fields and its utilization for the generation of energy, phase 1
[BMFT-FB-T-83-157] 05 p0700 N84-14591

The SERI advanced and innovative wind energy concepts program
[DE83-011960] 06 p0873 N84-15680

Wind-powered heat pump experiment
[DE84-003141] 07 p1026 N84-16647

Zoning for wind machines: A guide for Minnesota communities
[PB84-129568] 10 p1531 N84-20027

Wind energy systems program summary, fiscal years 1981 and 1982
[DE84-002958] 11 p1673 N84-20919

Wind electric generator project
[DE84-006747] 12 p1843 N84-22013

Oscillating wind energy conversion systems
[DE84-000087] 12 p1843 N84-22018

Small wind systems field evaluation. Volume 1: Executive summary and program description
[DE84-006916] 12 p1844 N84-22023

Small wind systems field evaluation. Volume 2: Institutional issues
[DE84-006913] 12 p1844 N84-22024

Wind and solar powered turbine
[NASA-CASE-NPO-15496-1] 13 p2007 N84-23018

Wind energy test field Pellworm: Tests of the plant Bruemmer BW 120S
[GKSS-83-E-42] 13 p2010 N84-23035

Untapped midwestern wind energy resource: Nocturnal low-level wind maxima
[DE84-006424] 13 p2017 N84-23077

Development of a simple wind speedometer for application in countries of the developing world
[BMFT-FB-T-83-310] 15 p2336 N84-25022

Examination of the final design of the rotor blades GROWIAN 1
[BMFT-FB-T-83-306] 15 p2362 N84-25174

Small wind systems field evaluation. Volume 3: Utility issues
[DE84-006919] 15 p2365 N84-25190

Wind energy systems for electric utilities: A synthesis of value studies
[DE83-011968] 16 p2512 N84-26121

Protecting wind access: A preliminary assessment
[DE83-011970] 16 p2528 N84-26227

Meteorological measurements in the Northern German coastal area for wind energy prospection
[BMFT-FB-T-84-017] 16 p2529 N84-26241

Linearized model for wind turbines in yaw 17 p2722 N84-27325

Effect of radial inflow on vortex intensification and its application to wind vortex generators 17 p2724 N84-27335

Wind energy converter GROWIAN 2
[BMFT-FB-T-84-063] 19 p3051 N84-29364

Reports from the German Meteorological Service. Number 165: The wind conditions in the Federal Republic of Germany with a view to windpower utilization (especially network planning). Part 3: Interior. Part 4: Hinterland
[ISBN-3-88148-211-3] 19 p3057 N84-29393

Wind energy assessment studies in the Goodnoe Hills and Cape Blanco areas
[DE84-010087] 19 p3059 N84-29409

High yield wind energy resources in the mid-Hudson River basin
[PB84-184951] 20 p3234 N84-30530

Is the wind a practical source of energy for you?
[DE84-010938] 20 p3236 N84-30541

Passive yaw damping of a teetered rotor versus delta-3 angle values
[DE84-009758] 20 p3236 N84-30545

Overview of wind turbine siting considerations
[DE84-011686] 20 p3237 N84-30547

German-Argentinian R and D project for the utilization of wind energy
[BMFT-FB-T-84-080] 20 p3237 N84-30549

Wind energy assessment for western Maryland
[PB84-184613] 20 p3237 N84-30553
On-site analysis to assess the feasibility of wind power
[DE84-009762] 20 p3247 N84-30606
US average wind power by season
[DE84-012214] 20 p3248 N84-30613
Wind energy: a brief assessment
[DE84-012208] 21 p3434 N84-31788
Conceptual design of an electrofluid dynamic wind energy system
[DE84-004512] 21 p3435 N84-31795
Wind energy systems for electric utilities: A synthesis of value studies
[DE84-004520] 21 p3435 N84-31796
Regional Wind Energy Assessment Program report. Appendix: Wind statistics summaries
[DE84-011835] 21 p3448 N84-31876
US annual average wind power
[DE84-012215] 21 p3448 N84-31877
Regional wind energy assessment program
[DE84-011832] 21 p3448 N84-31878
Large HAWT (Horizontal-Axis Wind Turbine) wake measurement and analysis
[DE84-013269] 22 p3596 N84-32772
Verification of hourly forecasts of wind turbine power output
[PNL-4900] 22 p3616 N84-32914
Information Package: Windpower utilization
23 p3785 N84-34005
Windpower utilization from the point of view of the Federal Ministry of Research and Technology
23 p3785 N84-34006
Windpower utilization possibilities
23 p3785 N84-34007
Wind energy: Large windpower systems to produce electric energy 23 p3785 N84-34008
GROWIAN: Electric current from wind energy
23 p3786 N84-34009
Advice for windpower users 23 p3786 N84-34010
Measuring and data evaluation systems at the wind test site Pellworm
[GKSS-84-E-12] 23 p3791 N84-34044
Wind energy. M.A.N. systems and their efficiency
23 p3791 N84-34046

WINDPOWERED GENERATORS
Windpowered generators. Test field Pellworm. The test of the Aeroman system
[GKSS-83-E-15] 02 p0243 N84-11589
Construction of two wind turbines AEROMAN 11/11 for Indonesia
[BMFT-FB-T-83-143] 33 p0384 N84-12505
Zoning for wind machines: A guide for Minnesota communities
[PB84-129568] 10 p1531 N84-20027
Wind electric generator project
[DE84-006747] 12 p1843 N84-22013
Matching wind turbine rotors and loads: Computational methods for designers
[DE84-006921] 12 p1843 N84-22019
Wind energy test field Pellworm: Tests of the plant Bruemmer BW 120S
[GKSS-83-E-42] 13 p2010 N84-23035
Rocky Flats Wind Energy Research Center, fiscal year 1982
[DE84-006829] 14 p2173 N84-24013
Wind energy systems for electric utilities: A synthesis of value studies
[DE83-011968] 16 p2512 N84-26121
Protecting wind access: A preliminary assessment
[DE83-011970] 16 p2528 N84-26227
German-Argentinian R and D project for the utilization of wind energy
[BMFT-FB-T-84-080] 20 p3237 N84-30549
Conceptual design of an electrofluid dynamic wind energy system
[DE84-004512] 21 p3435 N84-31795
Investigation of Doubly-Fed Machine in Variable Speed Applications
[DE84-012943] 22 p3618 N84-32928
Wind shear for large wind turbine generators at selected tall tower sites
[DE84-011790] 22 p3626 N84-32974
Wake studies at the flowind vertical axis wind turbine generator site
[DE84-014837] 23 p3691 N84-33392
Development of a wind energy converter with single blade rotor
[BMFT-FB-T-84-114] 23 p3792 N84-34050

WINDS ALOFT
NT GEOSTROPHIC WIND
NT JET STREAMS (METEOROLOGY)
Results of foil cloud experiments performed at Esrange (Kiruna, Sweden) and Andenes (Andoya, Norway) during the Energy Budget Campaign, November 1981 — wind measurement
[BMFT-FB-W-83-012] 07 p1034 N84-16710
The NEPHOS program: Preliminary results
10 p1536 N84-20061

WINDSCREENS
U WINDSHIELDS

WINDSHIELDS
Aircraft transparency testing methodology and evaluation criteria. Part 2: Methodology development for improved durability
[AD-A131926] 03 p0331 N84-12157
Aircraft transparency testing methodology and evaluation criteria. Part 1: Test methods and information analysis
[AD-A131927] 03 p0331 N84-12158
Alternate T-38 transparency development. Part 4: Parametric studies
[AD-A131904] 03 p0331 N84-12159
Ion deposited carbon coatings
[AD-A135068] 08 p1136 N84-17390
Optical interactions of aircraft windscreens and HUDs (Head-Up Displays) producing diplopia
[AD-P003159] 17 p2586 N84-26590
Estimating detection range and range loss looking through windshields and Head-Up Displays
[AD-P003161] 17 p2586 N84-26592
Conference on Aerospace Transparent Materials and Enclosures
[AD-A140701] 17 p2589 N84-26596
Pyrotechnic clear path egress system for the T-38 trainer aircraft
[AD-P003184] 17 p2589 N84-26597
Windshield weight reduction through the use of high strength glass and polyurethane interlayers
[AD-P003186] 17 p2590 N84-26599
New aircraft windshield applications using ion exchange glass
[AD-P003187] 17 p2590 N84-26600
A new and unique conductive element for aircraft transparencies
[AD-P003188] 17 p2590 N84-26601
T-38 student windshield birdproofing efforts utilizing metal and composite materials for aft arch reinforcement
[AD-P003189] 17 p2590 N84-26602
Development of lightweight commercial aircraft windshields with new high strength glasses
[AD-P003190] 17 p2590 N84-26603
Transparency technology needs for military aircraft
[AD-P003191] 17 p2590 N84-26604
Testing polycarbonate for utilization in the production of transparent enclosures
[AD-P003192] 17 p2591 N84-26605
Degradation of the bird impact resistance of polycarbonate
[AD-P003193] 17 p2591 N84-26606
The effect of accelerated ultra violet weathering on the rain erosion resistance of coated aircraft transparencies
[AD-P003194] 17 p2591 N84-26607
Some crazing experiments on As-cast acrylic to MIL-P-8184
[AD-P003196] 17 p2591 N84-26609
Comparison of bullet resistance of new and aged polycarbonate
[AD-P003198] 17 p2592 N84-26611
New high performance windshield/canopy materials
[AD-P003199] 17 p2592 N84-26612
An industry test program for interlayer equivalency
[AD-P003200] 17 p2592 N84-26613
Civil aircraft windscreen damage due to birdstrikes
[AD-P003214] 17 p2594 N84-26627
USAF aircraft windshield/canopy bird strikes
[AD-P003215] 17 p2594 N84-26628
Investigations concerning improvements of the SAAB 37 windshield birdstrike resistance
[AD-P003217] 17 p2595 N84-26630
Bird impact evaluation of the F/RF-4 transparency system
[AD-P003218] 17 p2595 N84-26631
Alternate T-38 transparency development
[AD-P003219] 17 p2595 N84-26632
Visual perception through windscreens: Effects of minor occlusions and haze on operator performance
[AD-P003223] 17 p2596 N84-26636
Lufthansa German Airlines experience with cabin and cockpit windows of Boeing 707, 727, 737, 747, Douglas DC10 and Airbus A300
[AD-P003226] 17 p2596 N84-26639
The wiper abrasion and rain erosion resistance of transparent materials and coatings for aircraft glazing
[AD-P003227] 17 p2596 N84-26640
Windshield problems on UK operated transport sized jet aircraft 1976 to 1982
[AD-P003228] 17 p2596 N84-26641
Validation of the MAGNA (Materially and Geometrically Nonlinear Analysis) computer program for nonlinear finite element analysis of aircraft transparency bird impact
[AD-P003229] 17 p2596 N84-26642
MAGNA (Materially and Geometrically Nonlinear Analysis) computer simulation of bird impact on the F-15 aircraft canopy
[AD-P003230] 17 p2597 N84-26643
Simulation of T-38 aircraft student canopy response to cockpit pressure and thermal loads using MAGNA (Materially and Geometrically Nonlinear Analysis)
[AD-P003231] 17 p2597 N84-26644
Parametric studies of the T-38 student windshield using the finite element of code MAGNA (Materially and Geometrically Nonlinear Analysis)
[AD-P003232] 17 p2597 N84-26645
Current problems and progress in transparency impact analysis
[AD-P003233] 17 p2597 N84-26646
Theoretical evaluation of the structural performance of Swedish fighter aircraft windshields subjected to bird impact
[AD-P003235] 17 p2597 N84-26648
Status of new aerothermodynamic analysis tool for high-temperature resistant transparencies
[AD-P003236] 17 p2598 N84-26649
Improving the birdstrike resistance and durability of aircraft windshield systems: Program technical summary
[AD-A143712] 23 p3691 N84-33395
Method for dynamically recording distortion in a transparency
[AD-D011209] 24 p3902 N84-34707

WING CAMBER
The Concorde and aeronautical research
[NASA-TM-76973] 09 p1249 N84-18163
Slotted variable camber flap
[NASA-CASE-LAR-12541-1] 13 p1930 N84-22551

WING FLAPS
NT LEADING EDGE FLAPS
NT TRAILING-EDGE FLAPS
NT VORTEX FLAPS
Civil component program integrated Wing-Engine-System (IFAS), phase 1 — computational methods
[BMFT-FB-W-83-018] 10 p1429 N84-19343
Slotted variable camber flap
[NASA-CASE-LAR-12541-1] 13 p1930 N84-22551

WING FLOW METHOD TESTS
New investigation of short wings with lateral jets
[NASA-TM-77347] 06 p0782 N84-15124
Calculation of transonic flow around two wing-fuselage combinations using a full potential equation method
[FFA-137] 06 p0783 N84-15132
Theory of hypersonic three-dimensional flow of nonsteady gas stream with relaxation past thin wing with arbitrary aspect ratio 13 p1971 N84-22791

WING LOADING
Aeroelastic response of an aircraft wing to random loads
[AD-A130476] 01 p0004 N84-10028
Doublet point method for calculations on oscillatory lifting surfaces. Part 1: Subsonic flow
[NAL-TR-781-PT-1] 09 p1251 N84-18168
Comparative force measurements on half and whole models of a heavy lift wing in the large wind tunnel Emmen
[F/W-50-1596] 10 p1422 N84-19301
Dynamic characteristics of a space-station solar wing array
[NASA-TM-85780] 16 p2458 N84-25758
Calculation of transonic potential flow past wing-tail-fuselage configurations using the multigrid method 17 p2599 N84-26657
A flight-test and simulation evaluation of the longitudinal final approach and landing performance of an automatic system for a light wing loading STOL aircraft equipped with wing spoilers
[NASA-TM-85873] 22 p3537 N84-32363

WING NACELLE CONFIGURATIONS
The treatment of convected vortices in compressible potential flow 03 p0324 N84-12121
A grid-embedding transonic flow analysis computer program for wing/nacelle configurations
[NASA-CR-166529] 04 p0480 N84-13158

WING OSCILLATIONS
Numerical simulation of transonic flutter of a high-aspect-ratio transport wing
[NAL-TR-776T] 09 p1257 N84-18206
Excitation of Tollmin-Schlichting waves in boundary layer at vibrating surface of infinite-span sweptback wing
13 p1971 N84-22792
Aerodynamics of hovering 17 p2645 N84-26923
KC-135A winglet flight flutter program
18 p2788 N84-27692
Active suppression of aeroelastic instabilities for forward swept wings
[AD-A141739] 19 p2964 N84-28783

Subsonic and transonic unsteady- and steady-pressure measurements on a rectangular supercritical wing oscillated in pitch — wind tunnel tests
[NASA-TM-85765] 22 p3530 N84-32348

WING PANELS
The linear vortex distribution using the alternative approach
[NIAST-82/80] 07 p0945 N84-16133
Development of MCAERO wing design panel method with interactive graphics module
[NAS 1.60:3775] 14 p2104 N84-23623

WING PLANFORMS
NT ARROW WINGS
NT DELTA WINGS
NT INFINITE SPAN WINGS
NT SWEPT FORWARD WINGS
NT SWEPTBACK WINGS
NT VARIABLE SWEEP WINGS
Wing planform effects at supersonic speeds for an advanced fighter configuration
[NASA-TP-2269] 11 p1601 N84-20486

WING PROFILES
Suppression of interference flutter by composite tailoring 05 p0632 N84-14155
The structural and aerodynamic behaviour of a semi-inflatable wing
[BU-297] 15 p2260 N84-24574
Dynamic characteristics of a space-station solar wing array
[NASA-TM-85780] 16 p2458 N84-25758
Development of a thermal and structural model for a NASTRAN finite-element analysis of a hypersonic wing test structure 17 p2599 N84-26656
Preliminary indications of water film distribution and thickness on an airfoil in a water spray
[NASA-TM-85796] 18 p2785 N84-27677
Numerical optimization design of advanced transonic wing configurations
[NASA-TM-85950] 18 p2792 N84-27718
Integrated Application of Active Controls (IAAC) technology to an advanced subsonic transport project: Wing planform study and final configuration selection
[NASA-CR-3466] 18 p2792 N84-27720
Wing design for minimum drag with practical constraints 21 p3327 N84-31109
Kasprzyk airfoil. The first wind-tunnel tests
[NASA-TM-77757] 23 p3689 N84-33380

WING ROOTS
Solar powered aircraft
[NASA-CASE-LAR-12615-1] 03 p0330 N84-12154

WING SLOTS
Slotted variable camber flap
[NASA-CASE-LAR-12541-1] 13 p1930 N84-22551

WING TIP VORTICES
Experimental vortex analyzer
[NLR-MP-82006-U] 02 p0175 N84-11151
Helicopter blade tips
[NASA-TM-77370] 06 p0782 N84-15119
Wake characteristics and interactions of the Canard/wing lifting surface configuration of the X-29 forward-swept wing flight demonstrator
[AD-A133188] 06 p0783 N84-15126
Helicopter rotor wake geometry and its influence in forward flight. Volume 1: Generalized wake geometry and wake effect on rotor airloads and performance
[NASA-CR-3726] 06 p1099 N84-17149
An investigation of the effects of discrete wing tip jets on wake vortex roll up
[AD-A135872] 09 p1252 N84-18173
The effect on acoustic radiation of mutual interaction between a line vortex and an airfoil
[FFA-TN-1983-45] 09 p1387 N84-19058
Wingtip vortex propeller
[NASA-CASE-LAR-13019-1] 11 p1602 N84-20495
Computational vortex flow aerodynamics
[NLR-MP-83017-U] 12 p1766 N84-21522
Comparative measurements of the unsteady pressures on three oscillating wing-tip models
[DFVLR-FB-84-07] 19 p2960 N84-28758
Graduate engineering research participation in aeronautics
[NASA-CR-173649] 21 p3507 N84-32220
Radar cross section measurements of wingtip vortices 23 p3775 N84-33934

WING TIPS
Predicting aerodynamic characteristics of vortical flows on three-dimensional configurations using a surface-singularity panel method 03 p0323 N84-12112
The effects of wing tip devices on the performance of the BAe Jetstream 03 p0326 N84-12130
The effect of wing tip devices on the far-field wake of a Paris Aircraft 03 p0326 N84-12131
Analysis of nonplanar wing-tip mounted lifting surfaces on low-speed airplanes 06 p0786 N84-15142
Effects of blowing spanwise from the tips of low-aspect ratio wings of varying taper ratio, with application to improving STOL capability of fighter aircraft
[AD-A135688] 09 p1252 N84-18175
International aviation (selected articles)
[AD-A140895] 17 p2601 N84-26671
Comparative measurements of the unsteady pressures on three oscillating wing-tip models
[DFVLR-FB-84-07] 19 p2960 N84-28758

WINGLETS
Wind tunnel investigation of the rolling moment of a rectangular wind with some winglets on the left upper tip
[NAL-TR-788] 16 p2440 N84-25650
KC-135 Winglet Program Review
[NASA-CP-2211] 18 p2787 N84-27686
KC-135 winglet program overview 18 p2787 N84-27687
KC-135 wing and winglet flight pressure distributions, loads, and wing deflection results with some wind tunnel comparisons 18 p2787 N84-27688
In-flight lift and drag measurements on a first generation jet transport equipped with winglets 18 p2787 N84-27689
Measurements of the fuel mileage of a KC-135 aircraft with and without winglets 18 p2787 N84-27690
Comparison of flight measured, predicted and wind tunnel measured winglet characteristics on a KC-135 aircraft 18 p2787 N84-27691
KC-135A winglet flight flutter program 18 p2788 N84-27692
Improving the efficiency of smaller transport aircraft
[NASA-TM-85992] 19 p2963 N84-28780

WINGS
NT ARROW WINGS
NT BEARINGLESS ROTORS
NT CAMBERED WINGS
NT CARET WINGS
NT CRUCIFORM WINGS
NT DELTA WINGS
NT FIXED WINGS
NT FLEXIBLE WINGS
NT INFINITE SPAN WINGS
NT LOW ASPECT RATIO WINGS
NT RECTANGULAR WINGS
NT RIGID ROTORS
NT ROTARY WINGS
NT SLENDER WINGS
NT SUPERCRITICAL WINGS
NT SWEPT FORWARD WINGS
NT SWEPT WINGS
NT SWEPTBACK WINGS
NT THIN WINGS
NT TIP DRIVEN ROTORS
NT UNCAMBERED WINGS
NT UNSWEPT WINGS
NT VARIABLE SWEEP WINGS
Flight measurements of hinged-plate wing-spoiler hinge moments — dhc-6 Twin Otter series 100 aircraft
[NASA-TM-84343] 01 p0003 N84-10021
Effect of thrust vectoring and wing maneuver devices on transonic aeropropulsive characteristics of a supersonic fighter
[NASA-TP-2119] 01 p0004 N84-10025
YIDOYU-1: Computer system for optimal wing design 01 p0118 N84-10768
Aeroelastic tailoring of high-aspect-ratio composite wings in the transonic regime 02 p0170 N84-11119
Influence of main design parameters on flutter behaviour for aircraft configurations with heavy concentrated masses 02 p0170 N84-11122
Solution of a minimum problem in aircraft wing theory
[AD-A131070] 02 p0174 N84-11147
Transonic configuration design 03 p0318 N84-12081
Predicting aerodynamic characteristics of vortical flows on three-dimensional configurations using a surface-singularity panel method 03 p0323 N84-12112
Analytical prediction of aerothermal environment in a wing-elevon cove — space shuttle orbiter
[NASA-TM-85711] 03 p0370 N84-12412
A wing concept for supersonic maneuvering
[NASA-CR-3763] 06 p0781 N84-15115
Aircraft avionic system maintenance cannot duplicate and Retest-OK analytical source analysis
[AD-A134449] 07 p0945 N84-16129
Development of a thermal and structural model for a NASTRAN finite-element analysis of a hypersonic wing test structure
[NASA-CR-170413] 08 p1170 N84-17620
The present calculation method of adhering layers on aircraft wings
[AD-A137585] 11 p1602 N84-20496
A numerical study of the controlled flow tunnel for a high lift model
[NASA-CR-166572] 16 p2438 N84-25642
Hypersonic Aerothermodynamics
[VKI-LS-1984-01] 16 p2440 N84-25656
Safety recommendations A-84-1 through -3 16 p2443 N84-25673
Carbon structures on the wing of the regional transport plane ATR-42
[SNIAS-832-111-113] 16 p2448 N84-25704
International aviation (selected articles)
[AD-A140895] 17 p2601 N84-26671
KC-135 wing and winglet flight pressure distributions, loads, and wing deflection results with some wind tunnel comparisons 18 p2787 N84-27688
A fundamental approach to the sticking of insect residues to aircraft wings
[NASA-CR-173721] 18 p2791 N84-27717
Computer program documentation for a subcritical wing design code using higher order far-field drag minimization
[NASA-CR-3457] 19 p2957 N84-28740
Calculation of unsteady aerodynamics for four AGARD standard aeroelastic configurations
[NASA-TM-85817] 19 p2958 N84-28747
Unsteady aerodynamics of moving control surfaces at the Airbus wing
[BMFT-FB-W-84-001] 19 p2968 N84-28811
Hypersonic three-dimensional flow of radiating gas around wing 21 p3481 N84-32062
Design of a composite wing extension for a general aviation aircraft
[NASA-CR-173832] 22 p3534 N84-32377
Piezoelectric deicing device
[NASA-CASE-LEW-13773-2] 22 p3597 N84-32782
Integrated technology wing design study
[NASA-CR-3586] 23 p3693 N84-33402
BGRID: A block-structured grid generation code for wing sections
[NASA-CR-166317] 23 p3814 N84-34187
Wake profile measurements of fixed and oscillating flaps
[NASA-CR-166602] 24 p3852 N84-34428
Pivotal mono wing cruise missile with wing deployment and fastener mechanism
[AD-D011192] 24 p3853 N84-34436

WINTER
Field and laboratory studies of ice nucleation in winter orographic clouds 03 p0409 N84-12678
A comparison of NMC models (1977) on precipitation forecasts for east coast cyclogenesis 06 p0679 N84-15720
A statistical-dynamical study of the large-scale intraseasonal variability of the northern hemisphere winter circulation 08 p1184 N84-17716
Two contrasting Northern Hemisphere winters: 1980 - 1981 and 1981 - 1982 12 p1855 N84-22087
Hydrology of the North Slope, Alaska 14 p2166 N84-23973
Project Skywater data inventory, 1982-1983 SCPP (Sierra Cooperative Pilot Project) data inventory
[PB84-151489] 14 p2180 N84-24058
Low Temperature Science. Series A: Physical Science
[ISSN-0439-3538] 15 p2352 N84-25112
Snow storm with strong wind in Antarctica 15 p2353 N84-25118
Desert emergency of lack of water; how to find and collect water
[AD-A140981] 18 p2789 N84-27703
Error analysis for winters' additive seasonal forecasting system
[AD-A141355] 19 p3058 N84-29399
San Juan Mountains avalanche study: Evaluation and prediction of avalanche hazard, meteorological and avalanche observations
[PB84-202704] 21 p3432 N84-31778
Wind turbine generator interaction with conventional diesel generators on Block Island, Rhode Island. Volume 2: Data analysis
[NASA-CR-168319] 21 p3433 N84-31783
Seasonal precipitation forecasting with a 6 to 7 month lead time in the Pacific Northwest using an information theoretic model
[PB84-207018] 22 p3626 N84-32979
Report of pit-wall observations of snow cover in Sapporo, 1982 - 1983 23 p3762 N84-33843
Distribution of pack ice of Okhotsk Sea coast of Hokkaido observed with sea ice radar network, January-April 1983 23 p3762 N84-33848
Passive microwave characteristics of the Bering Sea ice cover during Marginal Ice Zone Experiment (MIZEX) West 23 p3773 N84-33917

WIRE
NT ELECTRIC WIRE
NT EXPLODING WIRES
NT GUY WIRES

Metallurgical characterization of Niobium/Tin superconducting multifilamentary wires
[AD-A131018] 01 p0044 N84-10281
Development of nondestructive full-test requirements for gold wires on multilayer thick-film hybrid microcircuits
[DE83-014368] 01 p0093 N84-10602
Combustibility of electrical wire and cable for rail rapid transit systems. Volume 1: Flammability
[PB83-233742] 02 p0217 N84-11420
Combustibility of electrical wire and cable for rail rapid transit systems. Volume 2: Toxicity
[DOT-TSC-UMTA-83-4.2-VOL-2] 02 p0217 N84-11421
The effect of condensate inundation on steam condensation heat transfer to wire-wrapped tubing
[AD-A132175] 04 p0615 N84-14060
Numerical electromagnetics code. Method of moments. User's guide supplement for NEC-3 for modeling buried wires
[DE84-002195] 06 p0825 N84-15382
Integrated evaluation of the quality of steel cable wire
[BLL-M-35267-(5828.4)] 06 p0854 N84-15564
Abrasive properties of ferroalloys
[BLL-M-35416-(5828.4)] 07 p0973 N84-16306
A contribution to the manufacture and characteristics of steel-wire-reinforced aluminum
[NASA-TM-76977] 07 p0974 N84-16310
A technique for the nondestructive detection of voids and composition anomalies in metal matrix composite wires using X or gamma rays
[AD-A135481] 08 p1132 N84-17359
Wire tensile testing for radiation hardening experiments
[DE84-005884] 11 p1634 N84-20684
The insulation of copper wire by the electrostatic coating process
[AD-A137715] 11 p1646 N84-20765
On the relation between wire length distributions and placement of logic on master slice ICs
[AD-A137848] 11 p1647 N84-20768
Proceedings of the 32d International Wire and Cable Symposium
[AD-A136749] 11 p1719 N84-21212
Development of copper-coated aluminum-shielded wire 11 p1719 N84-21214
Unbalanced digital crosswalk in balanced, twisted pair, inside wiring cable 11 p1720 N84-21216
Field trial of composite fiber-optic overhead ground wire 11 p1720 N84-21221
Lead making for improved continuous-flow manufacturing systems 11 p1721 N84-21224
Foamable PVDF fluoroplastic for wire and cable applications 11 p1722 N84-21230
Superfine wire made from new alloy 12 p1787 N84-21657
Resistivity and strain behavior during transformation cycling in nickel-titanium
[DE84-006640] 14 p2129 N84-23762
The effect of ice temperature on regelation velocities 15 p2353 N84-25113
Plasma physics issues in advanced simulation research
[AD-A139628] 15 p2410 N84-25465
Stress analysis of wire hoist rope
[PB84-172618] 17 p2681 N84-27075
Electromagnetic inspection of wire ropes using sensor arrays
[AD-A141164] 18 p2851 N84-28100
Determining the coefficient of heat transfer during the filtration of a heat-carrying agent through a coil
[BLL-M-35601-(5828.4)] 19 p3020 N84-29146
Analysis of fracture modes during extrusion and drawing of bimetal rods or wire
[DE84-009849] 20 p3157 N84-30051
Computer-generated movie on the short pulse electromagnetic behavior of wire objects
[DE84-012032] 20 p3175 N84-30162
Computer programs for electromagnetic coupling between a conducting body and an aperture in an infinite conducting plane
[AD-A142975] 21 p3386 N84-31491
Improved superconducting magnet wire
[DE84-011233] 21 p3393 N84-31531
Magnetic impurity scattering in in situ superconductors
[DE84-012835] 21 p3505 N84-32212
Critical current density of bronze-processed multifilimentary Nb-3Sn wires with magnesium addition to the matrix
[DE84-014579] 23 p3719 N84-33576
Apparatus for disintegrating kidney stones
[NASA-CASE-GSC-12652-1] 24 p3936 N84-34913

WIRE BRIDGE CIRCUITS
NT WHEATSTONE BRIDGES

WIRE CLOTH
High Reynolds number cylinder flow studies
[AD-A131116] 02 p0218 N84-11429
Heat transfer characteristics of regenerator matrix (case of packed wire gauzes)
[NASA-TM-77448] 24 p3899 N84-34693

WIRE MESH
U WIRE CLOTH

WIRELESS COMMUNICATION
Wireless communication systems
[AD-A135830] 09 p1300 N84-18496
Blue-green propagation through clouds 15 p2323 N84-24949

WIRING
NT BEAM LEADS
Global wiring strategy for IC and PC routing
[DE83-009934] 02 p0215 N84-11412
Overall fire safer 11 p1727 N84-21264
NC-controlled machine with a cable
[MBB-UT-21-83-O] 16 p2564 N84-26450
DC wiring system grounding and ground fault protection issues for central station photovoltaic power plants 22 p3584 N84-32695
Phase sensitive guidance sensor for wire-following vehicles
[NASA-CASE-NPO-15341-1] 23 p3750 N84-33769

WIRING SYSTEMS
U WIRING

WISCONSIN
Geology, hydrology, and mineral resources of crystalline rock areas of the Lake Superior region, US, part 1 --- Michigan, Wisconsin, and Minnesota
[DE84-012682] 21 p3432 N84-31775

WKB APPROXIMATION
U WENTZEL-KRAMER-BRILLOUIN METHOD

WOLF-RAYET STARS
Stellar winds driven by multi-line scattering 03 p0469 N84-13087
International Ultraviolet Explorer observations of Wolf-Rayet binaries: Wind structures
[NASA-CR-175235] 07 p1089 N84-17081
International ultraviolet explorer observations of Wolf-Rayet binaries: Wind structures 11 p1757 N84-21467
Line studies of Wolf-Rayet stars: The WN subclass 21 p3522 N84-32311
The nitrogen abundance in WC stars 24 p3977 N84-35192
Phase-dependent stellar wind absorptions in interacting Wolf-Rayet binaries 24 p3982 N84-35233

WOLFRAM
U TUNGSTEN

WOMEN
U FEMALES

WOOD
NT PLYWOOD
Methanol production by catalytic gasification of wood
[DE83-013744] 01 p0053 N84-10341
Examination, evaluation and repair of laminated wood blades after service on the Mod-OA wind turbine
[NASA-TM-83483] 01 p0102 N84-10664
Efficiency of wood as a passive shielding for particles and photons of 0.5 to 4.6 MeV between 940 and 377 mb
[INPE-2864-PRE/399] 02 p0288 N84-11891
Gasogen for automobile use
[DE84-000712] 06 p0813 N84-15291
Long-term load performance of hardboard i-beams
[AD-A136091] 09 p1334 N84-18706
Modeling material failure with a vectorized routine 10 p1561 N84-20226
The efficiency of wood as a passive shield for particles and photons of 0.5 to 4.6 MeV between 940 and 377 mb
[INPE-2900-TDL/146] 17 p2764 N84-27554
Purdue plane structures analyzer 2: A computerized wood engineering system, 1983 version
[AD-A142042] 19 p3078 N84-29533
Thermal-stress analysis for wood composite blade --- horizontal axis wind turbines
[NASA-CR-173830] 21 p3419 N84-31685
Response of a plaster-wood room subjected to simulated sonic booms
[UTIAS-276] 21 p3421 N84-31701
How some test variables affect bending, tension, and compression values for particle panel products
[AD-A143627] 23 p3761 N84-33836
Polymers as substitutes for metal and lumber 24 p3867 N84-34510

WOODEN STRUCTURES
Long-term load performance of hardboard i-beams
[AD-A136091] 09 p1334 N84-18706

WORD PROCESSING
Additional symbols used in double-spaced text for Wang OIS word-processor users
[DE83-014908] 01 p0162 N84-11065
Techniques for integrated text and image processing and communication
[BMFT-FB-T-83-104] 02 p0302 N84-11985
Communicating between the IBM personal computer and the Wang word-processing system
[DE83-017987] 04 p0578 N84-13809
Short introduction to office applications of markup language
[DE83-011400] 04 p0582 N84-13844
ARDS (Automated Requirements Development System) user's manual. Volume 1: Document analysis, revision
[AD-A135925] 09 p1398 N84-19128
Self-teaching guide to Rand's text processor
[RAND/N-2056-RC-REV] 12 p1879 N84-22244
PASCAL packages for ASC II file I/O and CDC and dynamic strings
[PHL-1963-18] 12 p1884 N84-22265
Wang OIS glossary package for reformatting documents telecommunicated to the OIS system
[DE84-005113] 12 p1920 N84-22507
Office automation: A look beyond word processing
[AD-A132764] 18 p2944 N84-29670
Communicating between the IBM personal computer and the Wang word processing system
[DE84-010423] 20 p3267 N84-30729
Data word standardization
[AD-P003543] 21 p3333 N84-31147
Terminal oversight: The editor and the word processor
[DE84-012648] 21 p3519 N84-32296
Text processing in the writing of contracts
[SNIAS-841-422-102] 21 p3519 N84-32297
The design of an English word-processor for scientific and technical use in which superscripts, subscripts and Greek characters are operated in one-touch, 1 23 p3741 N84-33709
The design of an English word-processor for scientific and technical use in which superscripts, subscripts and Greek characters are operated in one-touch, 2 23 p3741 N84-33710

WORDS (LANGUAGE)
Status and progress of studies on the nature of speech, instrumentation for its investigation and practical applications
[AD-A136416] 09 p1298 N84-18488
Word frequency and automatic indexing 11 p1747 N84-21401
Study of finite word length effects in some special classes of digital filters
[AD-A138082] 12 p1877 N84-22232
RSRE speech data base recordings (1983). Part 1: Specification of vocabulary and recording procedure
[AD-A139361] 15 p2318 N84-24916
Linguistics 22 p3684 N84-33359
Isolated-word speech recognition using multi-section vector quantization code books
[AD-A144433] 24 p3895 N84-34665

WORK
NT PHYSICAL WORK
Biological clocks and shift work scheduling
[GPO-21-747] 03 p0415 N84-12713
Women at work and stress
[R/PERS-626] 04 p0573 N84-13777
The principle of virtual work and associated variational principles
[AD-B071515] 16 p2549 N84-26361
Motivation and work performance: A comparative and analytical study 17 p2747 N84-27441
Chronic effects of repeated mechanical trauma to the skin: A description of the problem in the workplace
[PB84-181767] 20 p3261 N84-30695
Equitable assignment rules
[AD-A142809] 21 p3515 N84-32268

WORK CAPACITY
Processing phenomena and the dissociation between subjective and objective workload measures
[AD-A134050] 05 p0715 N84-14666
Mental status and work capacity of Salyut-6 station crew members 07 p1044 N84-15773
The concept of working capacity of the flight crew 08 p1202 N84-17837
Physiological, biomechanical, and medical aspects of lifting and repetitive lifting: A review
[AD-A136669] 10 p1547 N84-20140
Models for the evaluation of work loads of crews during long distance flight 17 p2744 N84-27422
Circulatory dynamics in expeditionary tour of duty 18 p2896 N84-28372
Effects of natural light conditions on biorhythms in polar dwellers 18 p2897 N84-28376
Spatiotemporal structure of quanta of industrial work and its physiological basis 18 p2897 N84-28379
Effects of short-term heat adaptation on certain indicators of physical capacity for work 18 p2897 N84-28380
Use of vitamins during adaptation to high altitudes 20 p3252 N84-30643

Functional state and work capacity of man when breathing oxygen and hypoxic mixtures under positive pressure 20 p3254 N84-30654
Exchange of gases and physical work capacity in natives of different geographic regions 20 p3254 N84-30656
Link between indexes for mental work capacity and parameters in circulatory system before and after physical stress 21 p3455 N84-31925
Effect of body temperature on human work capacity 21 p3455 N84-31926
The functional condition of seamen under conditions of the southern maritime area 23 p3807 N84-34137

WORK FUNCTIONS
Amorphous silicon solar cells
[BMFT-FB-T-83-112] 02 p0243 N84-11590
Computer aided techniques for crew station design, work-space Organizer-WORG, workstation layout Generator-WOLAG
[AD-A132981] 05 p0716 N84-14693
Investigation of accelerated stress factors and failure/degradation mechanisms in terrestrial solar cells
[NASA-CR-173757] 18 p2870 N84-28222
Schottky barrier photoelectrodes with a variable barrier height
[AD-A141813] 19 p3111 N84-29765

WORK HARDENING
NT STRAIN HARDENING
Future directions of research in adhesion and friction. Status of understanding 14 p2153 N84-23896

WORK-REST CYCLE
Development of a systems theoretical procedure for evaluation of the work organization of the cockpit crew of a civil transport airplane
[NASA-TM-77359] 07 p1051 N84-16806
Effect of working in two shifts on circadian rhythm of heart rate 15 p2376 N84-25260

WORKING FLUIDS
NT FERROFLUIDS
Cycle of waste heat energy transformation — industrial waste heat
[BMFT-FB-T-83-173] 07 p1026 N84-16652
Principles and prospects for micro heat pipes
[DE84-006035] 19 p3020 N84-29149
A blowup phenomenon of the working fluid in a two-phase closed thermosyphon 20 p3169 N84-30122
An experimental study of helical guide-type rotating heat pipe 20 p3169 N84-30123
Experimental study of the naphtaline heat pipe 20 p3169 N84-30125
An RC-1 organic Rankine bottoming cycle for an adiabatic diesel engine
[NASA-CR-168256] 21 p3521 N84-32306
Investigation of thermal stability of fluorinol-85 and 2-methylpyridine-water as Rankine cycle power system working fluids
[DE84-006420] 22 p3562 N84-32559
Thermodynamic analysis of multicomponent working fluids for Rankine bottoming cycle applications
[DE84-014843] 23 p3757 N84-33814

WORKLOADS (PSYCHOPHYSIOLOGY)
Effect of pulsed 5.62 GHz microwaves on squirrel monkeys (Saimiri sciureus) performing a repeated acquisition task
[AD-A132045] 03 p0413 N84-12706
Electromyographic analysis of the peroneous longus during bicycle ergometry across work load and pedal type
[AD-A132550] 05 p0712 N84-14666
Processing phenomena and the dissociation between subjective and objective workload measures
[AD-A134050] 05 p0715 N84-14686
Age, altitude, and workload effects on complex performance
[AD-A133594] 07 p1047 N84-16793
Effects of load, cognitive complexity and type A on satisfaction
[AD-A134415] 08 p1203 N84-17846
Objective measure of pilot workload
[NASA-CR-173296] 08 p1205 N84-17858
A theoretical approach to measuring pilot workload
[NASA-CR-173297] 08 p1205 N84-17859
Development of speech input/output interfaces for tactical aircraft
[AD-A136485] 09 p1255 N84-18193
User centered system design
[AD-A136131] 09 p1364 N84-18907
Automated en route air traffic control algorithmic specifications. Volume 4: Sector workload probe
[AD-A136796] 10 p1425 N84-19320
Operator workload measurement validation for the MARK IV DSCC monitor and control subsystem 10 p1475 N84-19634
Neuromagnetic investigation of workload and attention
[AD-A136172] 10 p1548 N84-20147
An experimental evaluation of the Sternberg task as a workload metric for helicopter Flight Handling Qualities (FHQ) research
[NASA-TM-85864] 10 p1553 N84-20176
Anthropometric indicators of submariners 11 p1694 N84-21049
Methods and means of improving the working capability of flight personnel 11 p1694 N84-21051
Sustained Intensive Air Operations: Physiological and Performance Aspects
[AGARD-CP-338] 11 p1696 N84-21082
Conceptual framework for the development of workload metrics in sustained operations 11 p1696 N84-21063
The U.S. Air Force neurophysiological workload test battery: Concept and validation 11 p1696 N84-21084
Behavioral and subjective workload metrics for operational environments 11 p1696 N84-21065
Some issues in research on effects of sustained work and sleep loss on performance 11 p1697 N84-21071
Workload of personnel engaged in air defence 11 p1699 N84-21079
Sustained military operations with particular reference to prolonged exercise 11 p1699 N84-21081
Human decisionmaking in dynamic environments with increasing information processing demands
[AD-P002884] 13 p1979 N84-22845
Assessing contracting workforce requirements in the matrixed organization
[AD-P002760] 13 p2052 N84-23307
Choice of psychophysiological criterion to assess whole-body low-frequency vibration 15 p2376 N84-25255
Effect of working in two shifts on circadian rhythm of heart rate 15 p2376 N84-25260
Prolonged heavy vehicle driving performance: Effects of unpredictable shift onset and duration and convoy versus independent driving conditions
[AD-A139747] 15 p2384 N84-25298
Stressful mission profiles, part 2: Workload and fatigue 16 p2536 N84-26282
Development of a model for human operator learning in continuous estimation and control tasks
[AD-A140320] 16 p2538 N84-26294
Physiological assessment of aircraft pilot workload in simulated landing and simulated hostile threat environments
[AD-A140469] 16 p2538 N84-26297
Physiological responsiveness of operators in relation to work and homeostatic disorders 18 p2894 N84-28365
Functional status in relation to work, performance and health 18 p2895 N84-28366
Electrosleep in prophylaxis of psychoneural stress and recovery of mental performance in operators 18 p2895 N84-28367
EEG informational content in prediction of work performance 18 p2895 N84-28368
Functional status of operators and its systemic and technical determinants 18 p2895 N84-28369
Problems and perspectives of Alpine work physiology 18 p2895 N84-28370
Occupational efficiency in relation to psychophysiological characteristics 18 p2896 N84-28373
Response of cardiac rhythm to information load 18 p2898 N84-28384
Neuromagnetic investigation of workload and attention
[AD-A140946] 18 p2900 N84-28394
Physical performance tests as predictors of task performance
[AD-P003257] 18 p2905 N84-28424
Aircrew performance with simulated advanced radar and FLIR (Forward Looking Infrared) sensors in single- and two-place crew stations
[AD-P003269] 18 p2907 N84-28434
The structure of processing resource demands in monitoring automatic systems
[AD-P003319] 18 p2910 N84-28455
Mental and psychomotor task performance in noise 19 p3069 N84-29474
A multiple processing resource explanation of the subjective dimensions of operator workload
[AD-A141455] 19 p3070 N84-29480
The measurement of pilot performance: A master-journeyman approach
[AD-A142457] 20 p3262 N84-30698
Link between indexes for mental work capacity and parameters in circulatory system before and after physical stress 21 p3455 N84-31925
The workload book: Assessment of operator workload to engineering systems
[NASA-CR-166596] 23 p3810 N84-34160
Assessing pilot workload in flight 24 p3849 N84-34408
Operator alertness/workload assessment using stochastic model-based analysis of myoelectric signals
[AD-A144535] 24 p3937 N84-34921

WORLD
U EARTH (PLANET)

WORLD DATA CENTERS
Integrated Global Ocean Services System (IGOSS): Guide to the IGOSS data processing and services system
[WMO-623] 13 p2019 N84-23069

WORLD METEOROLOGICAL ORGANIZATION
Composition of the WMO
[WMO-5] 02 p0254 N84-11660
Report of the Fourth Session of the Joint Scientific Committee — of the WMO 02 p0256 N84-11679
Guide to agricultural meteorological practices, second edition
[WMO-134] 03 p0412 N84-12697
World Weather Watch: The plan and implementation program, 1964-1987
[WMO-617] 13 p2017 N84-23078
Integrated Global Ocean Services System (IGOSS): Guide to the IGOSS data processing and services system
[WMO-623] 13 p2019 N84-23069
Index numbers for North and Central America, the Caribbean and U.S. stations in the Pacific: Fifth editions
[PB84-159599] 15 p2372 N84-25231
World meteorological activities report
[WMO-628] 20 p3248 N84-30614

WOUND HEALING
Formation and remodeling of the early wound matrix
[AD-A134576] 08 p1201 N84-17833

WRAPAROUND CONTACT SOLAR CELLS
U SOLAR CELLS

WRENCHES
Seawater hydraulics: Development and evaluation of an experimental diver tool system
[AD-A142032] 19 p3032 N84-29231

WRINKLING
Finite element analysis of wrinkling membranes
[NASA-CR-172325] 14 p2158 N84-23926
Investigation of a cylindrical inflated beam-column structure
[BU-301] 15 p2350 N84-25105

WRIST
Testing and control of a compliant wrist
[AD-A140842] 17 p2748 N84-27445
Kinematic control of robot with degenerate wrist
[NASA-TP-2341] 18 p2923 N84-28539

WROUGHT ALLOYS
The development of wrought heat-resisting alloys for gas turbines
[CSIR-ME-1778] 11 p1632 N84-20669
Fatigue behavior of long and short cracks in wrought and powder aluminum alloys
[AD-A142609] 20 p3153 N84-30024
Gas turbine engine design considerations as related to alloys of high critical element content 23 p3703 N84-33470
Stress corrosion cracking of wrought and P/M high strength aluminum alloys
[AD-A144279] 24 p3884 N84-34606

WU-2 AIRCRAFT
U U-2 AIRCRAFT

WYOMING
Study of LANDSAT-D thematic mapper performance as applied to hydrocarbon exploration
[E84-10003] 02 p0235 N84-11544
Contribution of LANDSAT-4 thematic mapper data to geologic exploration
[E84-10021] 02 p0237 N84-11557
Use of aircraft imagery in evaluating ground stability at open-pit uranium mines in Gas Hills, Wyoming
[DE83-903011] 03 p0401 N84-12621
Snowy Range Observatory: Climatological and streamflow data report 1982
[PB83-243147] 03 p0403 N84-12633
Geologic study of the Wind River Basin, Fremont and Natrona Counties, central Wyoming
[PB83-254912] 03 p0409 N84-12677
Uranium anomalies in Wyoming and parts of adjacent states. National Uranium Resource Evaluation
[DE83-005353] 06 p0666 N84-15636
Acid precipitation in southeastern Wyoming
[PB84-132521] 10 p1533 N84-20039
Performance evaluation and geologic utility of LANDSAT-4 TM and MSS data
[E84-10099] 12 p1828 N84-21918
Interpretation of planetary stress systems: Determination of tectonic over-printing in Northwest Wyoming 13 p2090 N84-23540

Evaluation of LANDSAT-D Thematic Mapper performance as applied to hydrocarbon exploration
[E84-10154] 19 p3038 N84-29275
Depositional environment and petrology of the Medicine Peak Quartzite (early proterozoic), southern Wyoming
21 p3441 N84-31829
Recent eolian activity and paleoclimate fluctuations in the Ferris Lost Soldier Area, South-Central Wyoming
21 p3441 N84-31830
Diagensis and deformation of the Madison Group, Colorado and Utah overthrust belt
22 p3620 N84-32938

X

X BAND
U SUPERHIGH FREQUENCIES
X RAY ABSORPTION
Topographic EXAFS
[AD-A137116] 12 p1915 N84-22475
Medical clip
[NASA-CASE-LAR-12650-1] 18 p2899 N84-28388
C1 K-edge X-ray absorption studies of concentrated ferric chloride solutions
[AD-A142190] 19 p2989 N84-28940
Multiple scattering effects in EXAFS (Extended X-ray Absorption Fine Structure): Comparison between theory and experiment for Pt metal
[AD-A142199] 19 p2989 N84-28941
Determination of structural parameters from EXAFS (Extended X-ray Absorption Fine Structure): Application to solutions and catalysts
[AD-A142205] 19 p2989 N84-28942
X RAY ANALYSIS
An X-ray radiography study of delamination growth in notched carbon/epoxy laminates
[FFA-TN-1983-29] 03 p0386 N84-12516
Investigation of soft X-ray reflective coatings
[DE84-000510] 04 p0610 N84-14025
Experimental technique for handling and analysis of particles collected after nuclear explosions
[FOA-C-20503-A1] 05 p0746 N84-14899
Laboratory degradation of Kapton in a low energy oxygen ion beam
[NASA-TM-83530] 09 p1272 N84-18310
Characterization of ceramic powders by an X-ray measuring method
[NASA-TM-77094] 09 p1286 N84-18398
Methods for nondestructive tests of CFRP laminates
10 p1452 N84-19482
The AXAF technology program: The optical flats tests
[NASA-TM-82570] 10 p1578 N84-20341
Contribution of standard X-ray to cardiovascular exploration during the clinical examination of flying personnel 11 p1700 N84-21088
Features of physiochemical reaction in aluminum-boron composite material 12 p1783 N84-21636
Edge crack growth of thermally aged graphite/polyimide composites
[NASA-TM-85763] 12 p1789 N84-21667
The 16th European Conference on Laser Interaction With Matter, Book of Abstracts
[AD-A138316] 12 p1821 N84-21868
Flash X-ray with image enhancement applied to combustion events 13 p1948 N84-22666
Development of an X-ray facility for radiation dosimetry studies
[MRL-R-910] 16 p2555 N84-26391
Development and application of low energy X-ray and electron physics
[AD-A140480] 16 p2556 N84-26397
Timing analysis of hard X-ray emission and 22 GHz flux and polarization in a solar burst
[INPE-3103-PRE/502] 16 p2581 N84-26551
Study on the influence of X-ray focus on the image quality in radiological systems 17 p2764 N84-27555
C1 K-edge X-ray absorption studies of concentrated ferric chloride solutions
[AD-A142190] 19 p2989 N84-28940
On the closure of spaces of sums of ridge functions and the range of the X-ray transform
22 p3635 N84-33035
X RAY APPARATUS
NT X RAY TUBES
A novel X-ray backlighting method for Rayleigh-Taylor instability measurements on ablatively driven targets
[AD-A138644] 13 p1993 N84-22937
VUV instrument calibrations for laser-plasma studies
[DE84-010507] 20 p3303 N84-30974
X RAY ASTRONOMY
NT X RAY SOURCES
High Resolution Imager (HRI) for the Roentgen Satellite (ROSAT) definition study
[NASA-CR-174598] 03 p0342 N84-12223
The development of an imaging gas scintillation proportional counter for use in X-ray astronomy
04 p0618 N84-14079
A mercuric detector system for X-ray astronomy. 2. Results from flight tests of a balloon borne instrument
[NASA-CR-175329] 06 p0938 N84-16095
Development of a mercuric iodide solid state spectrometer for X-ray astronomy
[NASA-CR-175330] 06 p0938 N84-16096
ROSAT-FI design review
[MPE-39] 08 p1109 N84-17209
Operational uses for a solar soft X-ray imaging telescope
[PB84-137538] 11 p1756 N84-21466
The Advanced X-ray Astrophysics Facility. Observing the universe in X-rays
[NASA-EP-199] 12 p1921 N84-22517
Activities report of the Institute of Extraterrestrial Physics
[MPE-181] 15 p2423 N84-25557
LHEA contributions to the Future of Ultraviolet Astronomy Based on Six Years of IUE Research
[NASA-TM-86098] 15 p2423 N84-25559
High resolution hard X-ray spectra of solar and cosmic sources
[NASA-CR-173561] 15 p2429 N84-25587
Timing analysis of hard X-ray emission and 22 GHz flux and polarization in a solar burst
[INPE-3103-PRE/502] 16 p2581 N84-26551
Localization of X-ray bright spots relative to cells in solar chromospheric grid 19 p2974 N84-28854
Theoretical design and analysis of the layered synthetic microstructure optic for the dual path X-ray telescope
[NASA-CR-171133] 21 p3496 N84-32168
Microwave and X-ray observations of delayed brightenings at sites remote from the primary flare locations
[NASA-TM-86140] 22 p3680 N84-33326
Preliminary results of coordinated optical UV and X-ray observations of magnetic white dwarfs in binaries
24 p3960 N84-35216
Spatial fluctuations in the diffuse cosmic X-ray background
[NASA-TM-85029] 24 p3994 N84-35281
X RAY ASTROPHYSICS FACILITY
Preliminary designs for modifications to the X-ray source and beam monitor of the Marshall Space Flight Center's X-ray Calibration Facility 06 p0928 N84-16032
The AXAF technology program: The optical flats tests
[NASA-TM-82570] 10 p1578 N84-20341
The Advanced X-ray Astrophysics Facility. Observing the universe in X-rays
[NASA-EP-199] 12 p1921 N84-22517
Advanced X-ray Astrophysics Facility (AXAF)
[NASA-CR-171156] 23 p3698 N84-33434
X RAY DIFFRACTION
The X-ray-diffraction analysis of corrosion products of Fe-Ni-Cr alloys formed in molten-nitrate salts
[DE83-013317] 01 p0046 N84-10293
Auger and depth profile analysis of synthetic crystals for dispersion of soft X-rays — tungsten carbides
[DE83-015257] 02 p0293 N84-11918
Structural studies of amorphous Mo-Ge alloys through the semiconductor-metal transition
[DE83-016525] 02 p0299 N84-11964
Petrographic examination of Bell Canyon Tests (BCT) 1-FF field grouts over a 3-year period
[DE83-018226] 04 p0555 N84-13654
X-ray and backscattering analysis of ion implantation phenomena in GaAs and related compounds
[AD-A132429] 04 p0612 N84-14038
X-ray diffraction line-broadening studies on shock-loaded TiO-2 and Al2O-3
[DE83-016161] 05 p0755 N84-14955
The polarization ratio of crystal monochromators
[AD-A133181] 06 p0847 N84-15524
Model compound studies of rigid rod aromatic heterocyclic polymer systems, the X-ray crystal structure of 2,6-diphenylbenzo (1,2-d; 5,4-d') diimidazole tetrahydrate, C2OH14N4. 4H2O, a model system for the study of polymer-water interaction in polybenzimidazoles
[AD-A135278] 08 p1137 N84-17393
Silicon nitride joining
[AD-A136547] 09 p1287 N84-18404
X-ray topographic measurements of strain fields
[AD-A136310] 09 p1394 N84-19103
X-ray line broadening studies on aluminum nitride, titanium carbide and titanium diboride modified by high pressure shock loading
[DE84-003257] 10 p1463 N84-19553
DSP1, a Diffractometer Subroutine Package for PDP-8 computers
[AD-A137458] 10 p1563 N84-20241
Background research in support of the new grant proposal: Research consortium for X-ray topography on line X-19 at NSLS
[DE84-004212] 10 p1589 N84-20414
Standard reference material containing 2.5 percent austenite (SRM 486)
[PB84-143296] 12 p1799 N84-21795
Standard X-ray diffraction power patterns: Section 20 - data for 71 substances
[PB84-155191] 14 p2244 N84-24475
X-ray diffraction phase analysis of process and pollution control device samples
[PB84-166632] 15 p2367 N84-25201
Real-time X-ray diffraction: Applications to materials characterization 18 p2939 N84-28644
Molecular beam epitaxy of HgCdTe
[AD-A141574] 19 p3110 N84-29761
High temperature X-ray decomposition studies of alpha phase nickel-silicon and beta phase copper-aluminum-nickel alloys 21 p3364 N84-31338
Improved techniques for data acquisition and analysis on X-ray diffraction equipment
[Y-2282] 23 p3750 N84-33774
Attachment for an X-ray diffractometer for studying transformations in materials 24 p3868 N84-34513
X RAY FLUORESCENCE
X-ray wear metal monitor
[AD-A131251] 01 p0012 N84-10076
Uses of synchrotron radiation
[DE83-014431] 03 p0416 N84-12720
X-ray fluorescence analysis for barium, zinc, calcium and phosphorus in oil additives
[MRL-TN-475] 05 p0646 N84-14249
A new non-destructive and standardless method for the thickness determination of thin films by XRF measurement 06 p0815 N84-15308
X-ray diffraction phase analysis of process and pollution control device samples
[PB84-166632] 15 p2367 N84-25201
X-ray topographic methods and application to analysis of electronic materials 18 p2940 N84-28645
X RAY IMAGERY
Real-time 3-D X-ray and gamma-ray viewer
[NASA-CASE-GSC-12640-1] 02 p0293 N84-11920
Survey of flash X-ray techniques and applications
[DE83-017234] 03 p0442 N84-12904
High-speed videography combined with an x-ray image intensifier for dynamic radiography
[DE83-017233] 03 p0442 N84-12905
High-speed videography for optical and X-ray imaging
[DE84-002272] 05 p0748 N84-14910
X-ray sensor development for magnetospheric research
[NASA-CR-173172] 07 p1006 N84-16525
The GOES X-ray imager feasibility demonstration
[PB84-111970] 09 p1319 N84-18614
Contribution of standard X-ray to cardiovascular exploration during the clinical examination of flying personnel 11 p1700 N84-21088
Operational uses for a solar soft X-ray imaging telescope
[PB84-137538] 11 p1756 N84-21466
A study of coronal precursors of solar flares
[AD-A137163] 11 p1759 N84-21482
High resolution hard X-ray spectra of solar and cosmic sources
[NASA-CR-173561] 15 p2429 N84-25587
Edge blurring in stacked X-ray film screen combinations
[DE84-009658] 19 p3027 N84-29200
Optical density radiation dose relationship — radiography
[CETIM-100680] 21 p3497 N84-32162
Pinhole/coronograph pointing control system integration and noise reduction analysis
[NASA-CR-171152] 23 p3750 N84-33773
X RAY INSPECTION
NDE techniques for composite laminates
01 p0033 N84-10205
Advanced ND techniques for composite primary structures 01 p0034 N84-10216
An X-ray radiography study of delamination growth in notched carbon/epoxy laminates
[FFA-TN-1983-29] 03 p0386 N84-12516
Characterization by X-ray topography of laser-induced damage in potassium dihydrogen phosphate crystals
[DE83-012045] 03 p0454 N84-12985
Real-time X-ray diffraction: Applications to materials characterization 18 p2939 N84-28644
X-ray topographic methods and application to analysis of electronic materials 18 p2940 N84-28645
X RAY IRRADIATION
Solar-geophysical data number 464, April 1983. Part 2: (Comprehensive reports). Data for October 1982 and Miscellanea
[PB83-222497] 02 p0308 N84-12022

Streak cameras for soft X-ray and optical radiation
[DE84-002780] 08 p1162 N84-17564
Gene mutations, chromosome aberrations and survivability after X-ray irradiation of Chinese hamster cell culture under conditions of cysteamine protection
17 p2743 N84-27413
Possibilities for X-ray holography using synchrotron radiation
[DE84-010390] 18 p2844 N84-28063
Synthesis and evaluation of improved electron-beam and X-ray lithographic resist polymers
[AD-A141674] 19 p2999 N84-29006
Transient response of GaAs microwave power FET to X-ray pulses
[DE84-006816] 19 p3019 N84-29139
Auger electron pumping of short wavelength lasers
[DE84-009240] 19 p3030 N84-29217

X RAY LASERS
Experiments to study the feasibility of making an X-ray laser at the Novette laser facility
[DE83-015615] 03 p0360 N84-12476
Development of X-ray laser media. Measurement of gain and development of cavity resonators for wavelengths near 130 angstroms, volume 1
[AD-A136305] 09 p1320 N84-18621
Development of X-ray laser media. Measurement of gain and development of cavity resonators for wavelengths near 130 angstroms, volume 2
[AD-A136306] 09 p1320 N84-18622
Development of X-ray laser media. Measurement of gain and development of cavity resonators for wavelengths near 130 angstroms, volume 3
[AD-A136307] 09 p1320 N84-18623
Investigations of vacuum ultraviolet and soft X-ray lasers
[AD-A140362] 16 p2497 N84-26024
Soft X-ray laser experiments at Norvette Laser Facility
[DE84-012594] 21 p3410 N84-31627
Diagnostics for an XUV/soft X-ray laser
[DE84-012593] 21 p3410 N84-31628

X RAY SCATTERING
Structure and phase transitions in bromine and potassium-mercury intercalated graphite
[AD-A133663] 05 p0645 N84-14244
Project objectives and progress at the Research Laboratory of Electronics
[RLE-125] 06 p0926 N84-16016
RLE (Research Laboratory of Electronics)
[AD-A134812] 08 p1151 N84-17485
The AXAF technology program: The optical flats tests
[NASA-TM-82570] 10 p1578 N84-20341
Edge blurring in stacked X-ray film screen combinations
[DE84-009658] 19 p3027 N84-29200
Particel substructure. A common theme of discovery in this century
[DE84-006776] 19 p3113 N84-29782
X-ray diffuse scattering 22 p3682 N84-33341
Optical spectroscopy of disordered materials and X-ray scattering from surfaces 22 p3682 N84-33345

X RAY SOURCES
Circinus X-1: A laboratory for studying the accretion phenomenon in compact binary X-ray sources
[NASA-TM-85095] 01 p0165 N84-11083
Uses of synchrotron radiation
[DE83-014431] 03 p0416 N84-12720
Theory of optical flashes
[DE84-001450] 04 p0622 N84-14106
Preliminary designs for modifications to the X-ray source and beam monitor of the Marshall Space Flight Center's X-ray Calibration Facility 06 p0928 N84-16032
Studies of highly variable galactic X-ray sources with HEAO-1
[NASA-CR-170941] 06 p0941 N84-16112
High resolution X- and gamma-ray spectroscopy of cosmic X-ray sources
[NASA-CR-175368] 08 p1246 N84-18148
Spectral variability in early-type binary X-ray systems
[NASA-TM-86060] 09 p1407 N84-19195
Theoretical studies of X-ray emission from supernova remnants and other non-equilibrium astrophysical plasmas
[NASA-CR-175394] 10 p1597 N84-20468
Acceleration and confinement of energetic particles in the 7 June 1980 solar flare
[NASA-CR-173545] 16 p2580 N84-26550
Limits on soft X-ray flux from distant emission regions
[NASA-CR-173591] 16 p2582 N84-26558
Flow of stellar wind past X-radiation source
17 p2645 N84-26920
A search for X-ray polarization in cosmic X-ray sources — binary X-ray sources and supernovae remnants
[NASA-CR-173635] 17 p2781 N84-27657
Activities in astronomy
[ISSN-0531-4496] 20 p3319 N84-31067
The broad-band X-ray spectrum of a QSO sample
[NASA-TM-85071] 22 p3681 N84-33333
Imaging X-ray spectrometer
[NASA-CASE-GSC-12682-1] 23 p3749 N84-33765
Coordinated X-ray and ultraviolet observations of RU Lupi 24 p3978 N84-35199
Ultraviolet orbital variability of the intermediate polars — X ray sources 24 p3980 N84-35217
Periodicity searches with IUE: Studies of pulsating galactic X-ray sources 24 p3981 N84-35218
Coordinated X-ray, ultraviolet, optical, and infrared observations of the transient source A0535+26 — X ray source 24 p3981 N84-35219
Evidence for variations in the phase-dependent ionization structure of the stellar wind in Vela X-1
24 p3981 N84-35220
IUE observations of the X-ray binary A0538 66: Recent results on a remarkable recurrent
24 p3981 N84-35221
Temperature and elemental abundances in the Abell cluster A 576 derived from X-ray observations
[NASA-TM-85103] 24 p3987 N84-35238

X RAY SPECTRA
X-ray emission in heavy-ion collisions
[DE83-008776] 01 p0144 N84-10946
Implications of heavy-ion-induced satellite X-ray emission. 1: Introduction
[DE83-015682] 03 p0435 N84-12851
Observations of soft X-ray fluctuations with an imaging array on TEXT
[DE83-018118] 03 p0447 N84-12938
Implications of heavy-ion-induced satellite X-ray emission. Part 2: Production of K and L X-rays by 0.9 to 2.6 MeV/u Ar ions in thick targets of V, Cu, Nb, Ta, and Pt
[DE83-015681] 03 p0453 N84-12982
Methods for deconvoluting and interpreting complex gamma and X-ray spectral regions
[DE83-013585] 03 p0454 N84-12991
A study of thick-target X-ray spectra using photonuclear reactions
[AD-A132543] 04 p0586 N84-13834
Soft X-ray spectral observations of quasars and high X-ray luminosity Seyfert galaxies
[NASA-TM-85118] 04 p0619 N84-14082
Loop coalescence in flares and coronal X-ray brightening
[DE83-013070] 04 p0621 N84-14099
Models of the hard X-ray spectrum of AM Herculis and implications for the accretion rate
[NASA-TM-86045] 08 p1242 N84-18123
High resolution X- and gamma-ray spectroscopy of cosmic X-ray sources
[NASA-CR-175368] 08 p1246 N84-18148
Development of soft X-ray streak cameras at Lawrence Livermore National Laboratory
[DE83-015841] 10 p1499 N84-19797
An X-ray survey of clusters of galaxies with the Einstein Observatory and a study of iron sedimentation in the intracluster gas 10 p1595 N84-20454
High resolution X-ray spectra of H- and He-like argon from the Alcator C Tokamak 11 p1735 N84-21321
Wavelength measurement of X-ray lines from He-like ions 11 p1736 N84-21326
Optical characteristics of young quasars as sources of the cosmic X-ray background
[NASA-TM-85069] 11 p1760 N84-21488
X-ray spectra and time variability of active galactic nuclei
[NASA-TM-86071] 12 p1922 N84-22519
Advances in transmission X-ray optics
[DE84-007235] 14 p2225 N84-24354
An X-ray survey of variable radio bright quasars
[NASA-TM-86094] 14 p2250 N84-24512
Ultrafast gated intensifier design for laser fusion X-ray framing applications
[DE84-007761] 15 p2339 N84-25038
V-V compact group of galaxies
[NASA-CR-173609] 16 p2577 N84-26537
Line intensities for diagnosing laser-produced plasmas
[DE84-009857] 19 p3106 N84-29738
Imagery and spectroscopy of supernova remnants and H-2 regions
[NASA-CR-171799] 19 p3121 N84-29841
High resolution, high rate X-ray spectrometer
[DE84-011116] 20 p3190 N84-30266
Nonthermal effects on the diagnostics of a collapsing gas shell Z-pinch
[DE84-009996] 21 p3502 N84-32199
Photon-photon absorption and the uniqueness of the spectra of active galactic nuclei
[NASA-TM-86117] 21 p3526 N84-32338
The broad-band X-ray spectrum of a QSO sample
[NASA-TM-85071] 22 p3681 N84-33333
Analysis of experiments on X-ray emission from laser-irradiated targets
[DE84-751157] 24 p3909 N84-34761
Coordinated X-ray and ultraviolet observations of RU Lupi 24 p3978 N84-35199
X-ray spectra of clusters of galaxies
[NASA-TM-86115] 24 p3982 N84-35234
Temperature and elemental abundances in the Abell cluster A 576 derived from X-ray observations
[NASA-TM-85103] 24 p3987 N84-35238

X RAY SPECTROGRAPHY
U X RAY SPECTROSCOPY

X RAY SPECTROMETRY
U X RAY SPECTROSCOPY

X RAY SPECTROSCOPY
Composition gradients in electrolyzed LiCl-KCl melts
[DE83-012347] 01 p0037 N84-10237
X-ray spectroscopic study of high-temperature plasmas by curved crystal spectrometer
[IPPJ-839] 01 p0148 N84-10975
X-ray streak crystal spectrography — spectra of laser produced plasmas
[DE83-015618] 02 p0225 N84-11473
Gas phase spectroscopy near the carbon K-edge
[DE84-002876] 07 p0971 N84-16294
Software for computer controlled X-ray photoelectron and Auger Spectroscopy
[DE84-003912] 07 p1056 N84-16837
Electron spectroscopy study of SiC
[AD-A134352] 07 p1060 N84-17023
High resolution X- and gamma-ray spectroscopy of solar flares
[NASA-CR-173150] 07 p1092 N84-17103
Deep diode arrays for X-ray detection
[NASA-CR-175178] 09 p1306 N84-18537
Empirical background calculation method for multi-channel X-ray spectrometers
[PB84-130475] 09 p1319 N84-18618
Theoretical studies of X-ray emission from supernova remnants and other non-equilibrium astrophysical plasmas
[NASA-CR-175394] 10 p1597 N84-20468
Development of a high resolution cylindrical crystal spectrometer for line shape and spectral diagnostics of X-rays emitted from-hot-plasmas
[DE84-005664] 11 p1661 N84-20635
Wavelength measurement of X-ray lines from He-like ions 11 p1736 N84-21326
Topographic EXAFS
[AD-A137116] 12 p1915 N84-22475
X-ray photoelectron and Auger electron spectroscopic study of the CdTe surface resulting from various surface pretreatments: Correlations of photoelectrochemical and capacitance-potential behavior with surface chemical composition
[AD-A138601] 13 p1956 N84-22714
Thermal detectors as X-ray spectrometers
[NASA-TM-86092] 14 p2148 N84-23866
Ultraviolet and X-ray observations of active galactic nuclei: Constraints on models of the broad emission line region 15 p2423 N84-25560
Low energy X-ray and electron physics and applications to diagnostics development for laser-produced plasma research
[DE84-009842] 18 p2934 N84-28604
Multiple scattering effects in EXAFS (Extended X-ray Absorption Fine Structure): Comparison between theory and experiment for Pt metal
[AD-A142199] 19 p2989 N84-28941
Determination of structural parameters from EXAFS (Extended X-ray Absorption Fine Structure): Application to solutions and catalysts
[AD-A142205] 19 p2989 N84-28942
Study of strong electrolytes by X-ray spectroscopy at the cl k-edge
[AD-A142225] 19 p2989 N84-28943
Line intensities for diagnosing laser-produced plasmas
[DE84-009857] 19 p3106 N84-29738
X-ray spectroscopy of solids under pressure
[DE84-013790] 22 p3665 N84-33237
Research relative to high energy astrophysics — large area modular array of reflectors, X-ray spectroscopy, and thermal control
[NASA-CR-173678] 22 p3678 N84-33315
Structure and properties of polymers and organosilanes absorbed onto oxidized aluminum and titanium
[AD-A143935] 23 p3724 N84-33599
Imaging X-ray spectrometer
[NASA-CASE-GSC-12682-1] 23 p3749 N84-33765

X RAY STRESS ANALYSIS
In situ goniometer
[CETIM-5.41.22.0] 21 p3407 N84-31609

X RAY STRESS MEASUREMENT
The measurement of elastic constants for the determination of stresses by X-rays
[AD-A132330] 04 p0590 N84-13897

X RAY TELESCOPES
Solar EUV, XUV and soft X-ray telescope facilities
[NASA-CR-170602] 02 p0305 N84-11999
System definition Roentgensatellit, phase B 1.2
[BMFT-FB-W-83-010] 03 p0342 N84-12219
Spectral slicing X-ray telescope with variable magnification
[NASA-CASE-MFS-25942-1] 07 p1089 N84-17084
Thermal design features of Rosat X-ray telescope 10 p1445 N84-19443
The AXAF technology program: The optical flats tests
[NASA-TM-82570] 10 p1578 N84-20341
The Advanced X-ray Astrophysics Facility. Observing the universe in X-rays
[NASA-EP-199] 12 p1921 N84-22517
A normal incidence, high resolution X-ray telescope for solar coronal observations
[NASA-CR-173518] 13 p2070 N84-23412
Theoretical design and analysis of the layered synthetic microstructure optic for the dual path X-ray telescope
[NASA-CR-171133] 21 p3498 N84-32168
Research relative to high energy astrophysics — large area modular array of reflectors, X-ray spectroscopy, and thermal control
[NASA-CR-173878] 22 p3678 N84-33315

X RAY TUBES
Rigid indented cylindrical cathode for X-ray tube
[DE84-011093] 20 p3180 N84-30204
X-ray beam finder
[DE84-011100] 20 p3294 N84-30916

X RAYS
NT COSMIC X RAYS
NT SOLAR X-RAYS
Research on surface physics and crystallography at NSLS
[DE83-015035] 01 p0155 N84-11017
Rapid X-ray variability of active galaxies
[NASA-TM-85101] 01 p0165 N84-11082
The development and study of sensitive and process-compatible polymers for X-ray lithography
[BMFT-FB-T-83-122] 02 p0202 N84-11314
Fragmentation of small molecules following soft X-ray excitation
[DE83-011645] 02 p0289 N84-11896
Fabrication of structures on semiconductors by X-rays: Comparison and optimization of mask technologies
[BMFT-FB-T-83-071] 02 p0300 N84-11968
Influence of the magnetic field in the temporal evolution of solar flare X-ray and microwave radiation
[INPE-2842-TDL/140] 02 p0308 N84-12020
X-ray and optical studies of extragalactic X-ray emitters 02 p0308 N84-12024
Using an X-ray-sensitive vidicon and remote-control stage mechanism to obtain critical radiographic alignment of small explosive devices
[DE83-012846] 03 p0358 N84-12326
Using inner-shell X-rays as an ion-beam diagnostic
[DE83-017784] 03 p0436 N84-12857
Boundary layers in cataclysmic variables: The HEAO-1 X-ray constraints
[NASA-TM-85112] 03 p0463 N84-13046
Recommended values of the humidity correction factor k sub h for determining exposure in an X-ray beam with free-air chambers
[JEN-542] 04 p0593 N84-13915
Determining stresses in the presence of nonlinearities in interplanar spacing versus Sin squared Psi
[AD-A132365] 04 p0612 N84-14041
An X-ray and optical survey of s-type Markarian galaxies 05 p0762 N84-14996
Non-equilibrium X-ray emission from young supernova remnants 05 p0765 N84-15019
The polarization ratio of crystal monochromators
[AD-A133181] 06 p0847 N84-15524
Decimetric gyrosynchrotron emission during a solar flare
[NASA-TM-85123] 06 p0940 N84-16107
Theoretical calculation of rapid X-ray transients and radius expansion
[DE84-001312] 06 p0941 N84-16114
Gas phase spectroscopy near the carbon K-edge
[DE84-002876] 07 p0971 N84-16294
High accuracy gaseous X-ray detectors
[DE84-003677] 07 p1008 N84-16538
Limits on diffuse X-ray emission from M101
[NASA-CR-170978] 08 p1246 N84-18147
Characterization of ceramic powders by an X-ray measuring method
[NASA-TM-77094] 09 p1286 N84-18398
Storage ring design for X-ray lithography
[DE84-002859] 09 p1390 N84-19079
A study of the discrepant QSO X-ray luminosity function from the HEAO-2 data archive
[NASA-CR-173311] 09 p1413 N84-19240
Multi-element X-ray shields for spacecraft
[AD-A137105] 10 p1449 N84-19466
Proposal for a free electron laser in the X-ray region
[DE84-004735] 10 p1501 N84-19608
Macroscopic plasma behavior and charged particle acceleration in the plasma focus 10 p1581 N84-20383
Plasma focus evolution in time as seen from its neutron, gamma and X ray activities 10 p1582 N84-20385
X-ray imaging of biological specimens
[DE84-006287] 12 p1819 N84-21855
Hard X-ray and microwave morphology
[NASA-CR-173568] 16 p2582 N84-28559
Soft X-ray electron temperature measurements on TORTUR
[REPT-84-151] 17 p2766 N84-27568
Motor performance in irradiated rats as a function of radiation source, dose, and time since exposure
[AD-A141209] 18 p2894 N84-28363
Correlated charge changing interactions and K X-ray emission in ion-atom collisions
[DE84-006645] 18 p2930 N84-28580
Ion makeup in upper atmosphere affected by source of X-ray radiation 19 p2973 N84-29850
Advanced concepts theory
[AD-A141568] 19 p3107 N84-29741
Preliminary result of our new Nationwide Evaluation of X-ray Trends (NEXT) program for Italy
[ISS-L-84/3] 20 p3260 N84-30693
X-ray beam finder
[DE84-011100] 20 p3294 N84-30916
Studies of X-ray clusters of galaxies/intergalactic plasmas
[NASA-CR-173825] 20 p3319 N84-31068
Calculation of high altitude electromagnetic pulses due to X and gamma photons
[SNIAS-841-422-106] 21 p3388 N84-31504
PIXE and PBFA 2: Pulsed X-ray source feasibility study
[DE84-011535] 21 p3496 N84-32155
Polynominal grating
[AD-D011090] 22 p3657 N84-33186
LINAC facility at Armed Forces Radiobiology Research Institute
[AD-A143970] 23 p3822 N84-34239
High energy transients
[NASA-CR-173944] 23 p3838 N84-34347

X WING ROTORS
A model of rotor blade first natural flapping response for up to three/rev excitations
[AD-A141725] 19 p2963 N84-28782

X-Y PLOTTERS
Geometrical testing of X, Y plotters 15 p2359 N84-25155

XENON
NT XENON 133
Development of advanced inert-gas ion thrusters
[NASA-CR-168206] 01 p0029 N84-10180
Shocked fluids at high densities and temperatures
[DE83-015901] 02 p0219 N84-11437
The relative abundances of Sn, Te, Xe, Ba and Ce
[NASA-CR-174599] 03 p0465 N84-13064
Study of the characteristics of high pressure proportional counters for the detection of radioactive gases
[AD-A135803] 09 p1280 N84-18356
A z-pinch photo-pumped pulsed atomic iodine laser
[AD-A140033] 15 p2410 N84-25468
Performance capabilities of the 12-centimeter Xenon ion thruster
[NASA-TM-83674] 18 p2808 N84-27825
Direct measurement of a VUV transition oscillator strength in xenon
[DE84-008555] 18 p2941 N84-28655
Investigation of multiple scattering contributions to the depolarization of light scattered by carbon dioxide and xenon in the critical region. Part 3: Comparison between theory and experimental results
[VDW-PUBL-287] 19 p3105 N84-29731
Reconance ionization spectroscopy of argon, krypton and xenon using vacuum ultraviolet light
[DE84-011655] 20 p3150 N84-30006

XENON CHLORIDE LASERS
Update of pulsed-laser processing technology for high-efficiency silicon solar cells
[DE84-000638] 04 p0559 N84-13684

XENON ISOTOPES
NT XENON 133

XENON LAMPS
Surface property measurement for spacecraft thermal balance testing 10 p1447 N84-19451
A program to improve solar blind UV (ultraviolet) flash lamps
[AD-A141909] 20 p3177 N84-30177

XENON 133
Measurement of small amounts of xenon-133 in air: Report on a series of measures and tests in Stockholm and in Ljungbyhed
[FOA-C-20515-A1] 15 p2366 N84-25197

XM-8 SQUIB
U SQUIBS

XM-9 SQUIB
U SQUIBS

XV-15 AIRCRAFT
An assessment of the capability to calculate tilting prop-rotor aircraft performance, loads and stability
[NASA-TP-2291] 10 p1427 N84-19333
Identification and verification of frequency-domain models for XV-15 tilt-rotor aircraft dynamics
[NASA-TM-86009] 24 p3856 N84-34445

Y

YAG LASERS
Nd(3+): Yag laser pumped simultaneously by CW and pulsed light
[AD-A131092] 01 p0088 N84-10584
Reliability modeling of critical electronic devices
[AD-A135705] 09 p1328 N84-18669
A study of low level laser retinal damage
[AD-A137664] 11 p1695 N84-21055
The construction of a Nd:YAG laser and observation of the output
[AD-A138055] 12 p1820 N84-21860
Laser drilling of aero engine components
[PNR-90185] 13 p1996 N84-22956
Nd: YAG laser improvements and modifications
[DE84-009024] 15 p2340 N84-25044
Manufacturing methods and technology engineering for 'Growth of large diameter Nd:YAG laser crystals'
[AD-A139902] 15 p2413 N84-25486
Incorporation of an Nd:YAG laser engraver into Mound's machining operations
[DE84-014339] 23 p3755 N84-33801

YAGI ANTENNAS
Chung-Li, Taiwan dual mode (Doppler and spaced antenna) VHF radar: Preliminary specifications 17 p2691 N84-27141
Design considerations of a proposed UK VHF radar 17 p2692 N84-27142
The mobile Sousy-Doppler radar: Technical design and first results 17 p2693 N84-27152

YARNS
Double layered tailorable advanced blanket insulation
[NASA-CR-166600] 23 p3723 N84-33591

YAW
Instabilities of a gyroscope produced by rapidly rotating, highly viscous liquids
[AD-A130874] 01 p0084 N84-10547
Low aspect ratio wing/body vortex interaction at large angles of pitch and yaw 02 p0173 N84-11140
Evaluation of the effects of lateral and longitudinal aperiodic modes on helicopter instrument flight handling qualities
[AD-A134116] 05 p0629 N84-14135
A preliminary investigation of the drag and ventilation characteristics of livestock haulers
[NASA-CR-170408] 05 p0761 N84-14990
Fluid-dynamic error in measurement of periodic flow by spherical yawmeter and flow separation on yawmeter head 07 p0963 N84-16369
Further analysis of yawsonde data from some liquid payload projectiles
[AD-A137256] 11 p1653 N84-20791
A new satellite instrument for yaw and pitch measurements
[AD-A138729] 13 p1937 N84-22599
Recent developments and future directions in dynamic stability research at NAE, Ottawa 14 p2097 N84-23582
Magnetic roll/yaw attitude control of a momentum biased near polar orbit satellite
[MBB-UR-629-83-O] 16 p2561 N84-26432
Laser ballistic sensor development — projectile yawing motion
[AD-A140427] 17 p2671 N84-27026
Linearized model for wind turbines in yaw 17 p2722 N84-27325
Space Shuttle separate-surface control-system study
[NASA-TP-2340] 19 p2967 N84-28801
Passive yaw damping of a teetered rotor versus delta-3 angle values
[DE84-009758] 20 p3236 N84-30545
Analysis of wind turbines in yaw
[DE84-013620] 21 p3435 N84-31794

YAWING MOMENTS
Minimal drag for wings with prescribed lift, roll moment and yaw moment
[AD-A134572] 07 p0948 N84-16152
Flight data on liquid-filled shell for spin-up instabilities
[AD-A139136] 14 p2101 N84-23610

YAWMETERS
U ATTITUDE INDICATORS
U YAW

YC-15 AIRCRAFT
U C-15 AIRCRAFT

YEAST
Effect of cyclic changes in cultivation conditions of growth kinetics and physiological properties of yeasts
22 p3629 N84-32998
Genetic study of plasmid integration in yeast chromosomes. Report 1: Effect of integration of episomal plasmid in meiotic crossover in chromosome 3
23 p3606 N84-34131
Genetic study of plasmid integration in yeast chromosomes. Report 2: Analysis of irregular meiotic segregation 23 p3606 N84-34132
Obtaining yeast vector marked by mutation of multiple antibiotic resistance 23 p3606 N84-34133

YHU-1 HELICOPTER
U UH-1 HELICOPTER

YIELD
Numerical simulation of plastic fluids
[DE83-007911] 03 p0372 N84-12424
Yields photosynthetic efficiencies, and proximate chemical composition of dense cultures of marine microalgae, a subcontract report
[DE83-011992] 04 p0570 N84-13757
WECS - load controlled pitch - variable load conversion to heat
[DE84-005328] 11 p1674 N84-20922
Argentina wheat yield model
[E84-10101] 12 p1828 N84-21919
Argentina soybean yield model
[E84-10102] 12 p1828 N84-21920
Brazil wheat yield covariance model
[E84-10103] 12 p1829 N84-21921
Brazil soybean yield covariance model
[E84-10104] 12 p1829 N84-21922
Argentina corn yield model
[E84-10105] 12 p1829 N84-21923
Aggregating available soil water holding capacity data for crop yield models
[E84-10161] 17 p2710 N84-27253

YIELD POINT
Elasto-plastic analysis of plane stress problems using uniaxial symmetric Tresca yield surface and kinematic hardening 01 p0093 N84-10606

YIELD STRENGTH
Elasto-plastic analysis of plane stress problems using uniaxial symmetric Tresca yield surface and kinematic hardening 01 p0093 N84-10606
The yield stress and strain-rate sensitivity of nickel over a wide temperature range
[DE83-016913] 02 p0197 N84-11279
Structure and properties of polyethylene
[PB83-243631] 02 p0202 N84-11316
Yield stress of type 21-6-9 stainless steel over a wide range of strain rate (10(-5) to 10-4 s(-1)) and temperature
[DE83-017159] 06 p0907 N84-15259
Environmental factors as a source of failure in integrated circuits 06 p1168 N84-17604
Evaluations of the Irwin (ALPHA) sub Ic adjustment for small specimen fracture toughness data
[DE84-003292] 10 p1518 N84-19936
A pseudo-elastic material damage model involving local stiffness change and crack growth
11 p1667 N84-20873
Thick-wall Kevlar 49/epoxy pressure vessels
[DE84-003102] 14 p2120 N84-23707
The yield stress of type 21-6-9 stainless steel over a wide range of strain rate (10(-5) to 10(4) s(-1)) and temperature
[DE84-000914] 15 p2298 N84-24793
Effects of long-time elevated temperature exposures on hot-isostatically-pressed power-metallurgy Udimet 700 alloys with reduced cobalt contents
[NASA-TM-83632] 19 p2985 N84-28917

YIG (GARNET)
U YTTRIUM-IRON GARNET

YOUNG MODULUS
U MODULUS OF ELASTICITY

YT-2 AIRCRAFT
U T-2 AIRCRAFT

YTTERBIUM
Optical studies of dynamical process in disordered materials
[DE84-002048] 07 p1063 N84-17042
Pressure-dependent resistive behavior of YbBe13
[DE84-010066] 22 p3555 N84-32514

YTTERBIUM COMPOUNDS
Study of intermetallic compounds in ternary systems Al-Be-Nd and Al-Be-Yb
[BLL-M-35387-(5828.4)] 06 p1129 N84-17343
Improved thermal barrier coating system
[NASA-CASE-LEW-14057-1] 23 p3724 N84-33595

YTTRIUM
Hydrogen trapping by yttrium in low-temperature lithium
[DE83-012721] 02 p0194 N84-11283
Effects of yttrium microalloying on the epitaxial grain growth in Ti-6Al-4V weld fusion zones
[AD-A137272] 10 p1459 N84-19526
Hot-pressed silicon nitride with various lanthanide oxides as sintering additives
[NASA-TM-77424] 19 p2985 N84-28916

YTTRIUM ALLOYS
Diffusivities of hydrogen in yttrium and yttrium alloys
[DE84-000411] 04 p0503 N84-13296

YTTRIUM COMPOUNDS
NT YTTRIUM OXIDES
NT YTTRIUM-IRON GARNET

YTTRIUM OXIDES
Y03: Prequalification of surface treatment. Measurement of laser reflecting power — Earth-Moon telemetry
[ESA-TT-791] 03 p0382 N84-12490
Retroreflector Y03: Study of the optical properties of protected mirrors — Earth-Moon telemetry
[ESA-TT-789] 03 p0443 N84-12907
Defect interactions at high concentrations in solid oxide electrolytes
[DE83-016849] 03 p0455 N84-12992
Microstructure and phase composition of sputter-deposited zirconia-yttria films
[DE84-003352] 07 p1082 N84-17039
Role of Al-2O-3 in sintering of submicron yttria-stabilized ZrO-2 powders
[AD-A136798] 10 p1460 N84-19533
Grain boundary engineering of mechanical strength of silicon nitride (Si3N4)
[NASA-TM-77433] 14 p2119 N84-23699
Materials for Advanced Turbine Engines (MATE): Project 3: Design, fabrication and evaluation of an oxide dispersion strengthened sheet alloy combustor liner
[NASA-CR-174691] 22 p3554 N84-32504

YTTRIUM-IRON GARNET
Hybrid integrated optic modules for real-time signal processing 12 p1905 N84-22412

YUH-1 HELICOPTER
U UH-1 HELICOPTER

YUH-60A HELICOPTER
U UH-60A HELICOPTER

YUKON TERRITORY
Age and evolution of the Yukon-Tanana Terrane, southeastern Yukon Territory 13 p2013 N°4-23060

Z

ZEEMAN EFFECT
High-resolution nuclear magnetic resonance in solids (1975-1982)
[DE83-016408] 02 p0291 N84-11910
Observation of magnetic fields in laser-produced plasma using the Zeeman effect
[DE84-002742] 06 p0921 N84-15989
Plasma magnetic field measurement by intracavity absorption
[DE84-005152] 10 p1500 N84-19806
Topical Meeting on Optical Bistability
[AD-A138998] 14 p2231 N84-24381
Zeeman coherence effects in absorptive polarization bistability 14 p2235 N84-24412
Magnetic fluorescent lamp
[DE84-014231] 22 p3590 N84-32740
Zeeman studies of shallow donors and excitons in quantum wells
[AD-A144487] 24 p3967 N84-35121

ZENER DIODES
U AVALANCHE DIODES

ZENITH
The high zenith angle limits of cosmic ray access to an Earth satellite
[AD-A130216] 01 p0166 N84-11092
Applicability of stellar rate for astronomic position determination
[AD-A135845] 10 p1595 N84-20452

ZEOLITES
Vitrification of highly-loaded SDS zeolites
[DE83-006198] 02 p0292 N84-11915
New approach to the generation of metal-bearing, medium-pore, shape-selective zeolites for Fischer-Tropsch catalysis: Spectroscopic studies of zeolites
[DE83-014344] 03 p0347 N84-12254
Novel interactions of the charge-balancing cations with framework defects and trapped hydrogen atoms in holmium-exchanged Y zeolites
[DE83-014204] 03 p0433 N84-12839
The role of the tetrapropylammonium template in the synthesis of zeolite ZSM-5
[CSIR-CENG-413] 04 p0493 N84-13236

ZERO ANGLE OF ATTACK
Representation of potential flow about axisymmetric bodies with discrete singularities
[AD-A143526] 22 p3594 N84-32760

ZERO CROSSINGS
U ROOTS OF EQUATIONS

ZERO GRAVITY
U WEIGHTLESSNESS

ZERO LIFT
User's guide for a computer program for calculating the zero-lift wave drag of complex aircraft configurations
[NASA-TM-85670] 02 p0271 N84-11774
A technique to determine lift and drag polars in flight
24 p3648 N84-34402

ZERO SOUND
Coupling of Rayleigh-like waves with zero sound modes in normal He-3
[DE84-010519] 22 p3653 N84-33153

ZETA PINCH
Alternate implosion models for the plane parallel diode
[AD-A131275] 02 p0295 N84-11937
Design of a high-brightness, low-jitter, short-pulse laser for plasma diagnostics
[DE84-000129] 04 p0541 N84-13564
The MHD stability of inertia-tied Z-pinches with application to solar coronal loops
04 p0596 N84-13932
Simulation studies on a novel betatron injection scheme
[DE84-001337] 04 p0598 N84-13946
High-density Z-pinch research
[DE83-017311] 04 p0608 N84-14013
Proceedings of the 3rd International Workshop on Plasma Focus Research — conference
[IPF-83-6] 10 p1581 N84-20357
High density Z-pinch research
10 p1582 N84-20371
The Z-pinch program at Imperial College
10 p1583 N84-20372
Micropinch phenomenon in dense Z-pinch
10 p1583 N84-20378
A z-pinch photo-pumped pulsed atomic iodine laser
[AD-A140033] 15 p2410 N84-25488

ZIMBABWE
Statistics of instantaneous rainfall rates
[AD-A130089] 01 p0107 N84-10695
The greenstone belts of Zimbabwe
11 p1681 N84-20968

ZINC
Plating on aluminum: Influence on varying zinc immersion treatment times
[DE83-015246] 02 p0196 N84-11272
X-ray fluorescence analysis for barium, zinc, calcium and phosphorus in oil additives
[MRL-TN-475] 05 p0646 N84-14249
Effect of hydrodynamic flow on the morphology of electrodeposited zinc
[DE84-001816] 05 p0651 N84-14281
Precipitation of metals from solutions by baser metals
[CSIR-1712] 06 p0804 N84-15242
Segregation of Zn solutes to high-angles (001) twist grain boundaries in Al
[DE84-003455] 06 p1134 N84-17375
Influence of aging in martensite state on mechanical properties of Cu-Al-Zn system Beta-alloy
12 p1784 N84-21641
Bimetal and multimetal galvanic corrosion prediction using long- and short-term polarization curves
[AD-A139893] 15 p2297 N84-24786
Thermally-sprayed active metal coatings for corrosion protection in marine environments
[AD-A140783] 17 p2624 N84-26795
A compilation of mineral occurrences and the relationship of occurrences to structural elements of the Kentucky and Tennessee region
[NASA-CR-175240] 18 p2878 N84-28275
Remote sensing for geobotanical prospecting
22 p3613 N84-32889

ZINC ALLOYS
Characterization of the structure and substructure of thermally transformation cycled Cu-Zn-Al shape memory alloys
[AD-A132341] 04 p0499 N84-13270
Friction and morphology of magnetic tapes in sliding contact with nickel-zinc ferrite
[NASA-TP-2267] 07 p0977 N84-16334
Electrical transport in low resistivity amorphous alloys
[AD-A136331] 09 p1282 N84-18372
The role of hydrogen in the stress corrosion failure of high strength Al-Zn-Mg alloys
[AD-A136212] 09 p1284 N84-18388
Water-vapor effects on friction of magnetic tape in contact with nickel-zinc ferrite
[NASA-TP-2279] 09 p1286 N84-18399
Effects of fatigue on the G.P. zones in Al-Zn alloys
[AD-A137518] 10 p1459 N84-19530

Size distribution for G.P. zones in dilute Al-Zn alloys
[AD-A137519] 10 p1459 N84-19531
Deep drawing of continuously cast and rolled zinc sheet
[BMFT-FB-T-83-214] 10 p1472 N84-19614
Acoustic mixing of an immiscible alloy (Pb-Zn) in microgravity 17 p2613 N84-26728
Corrosion fatigue of an Al-Zn-Mg alloy and an Al-Mg-Li alloy 21 p3364 N84-31339

ZINC CHLORIDES
Refractive index and equation of state of a shock-compressed aqueous solution of zinc chloride
[DE83-016302] 02 p0220 N84-11443

ZINC COATINGS
A free-boundary problem arising from a galvanizing process
[AD-A132853] 05 p0655 N84-14304
Embrittlement of steels due to galvanizing or coating with zinc paint: An investigation of embrittlement in welding or heating operations — liquid metal embrittlement
[AERE-TR-4774] 06 p0805 N84-15244
Pilot system for the purification of rinse water and for the recuperation of metals in electroplating companies. Pilot system metal recovery from waste water (RMA)
[BMFT-FB-T-83-208] 08 p1126 N84-17323
Stabilization of thickness of zinc coating by adaptive system of control
[BLL-M-35367-(5828.4)] 09 p1281 N84-18364

ZINC COMPOUNDS
NT ZINC CHLORIDES
NT ZINC OXIDES
NT ZINC SELENIDES
NT ZINC SULFIDES
NT ZINC TELLURIDES
Performance of alkaline battery cells used in emergency locator transmitters
[NASA-TP-2277] 11 p1646 N84-20759

ZINC NICKEL BATTERIES
U NICKEL ZINC BATTERIES

ZINC OXIDES
Surface acoustic wave/silicon monolithic sensor/processor
[NASA-CR-174541] 01 p0056 N84-10366
Effect of UV illumination on the sublimation of basal surfaces of zinc oxide
[AD-A133383] 06 p0801 N84-15222
Monolithic ZnO SAW (Surface Acoustic Waves) structures
[AD-A135967] 09 p1309 N84-18557
Growth of HgCdTe by modified molecular beam epitaxy
[AD-A137243] 10 p1588 N84-20407
Studies involving high temperature desulfurization/regeneration reactions of metal oxides for fuel cell development
[DE84-003096] 18 p2876 N84-28261
Active material redistribution rates in zinc electrodes: Effect of alkaline electrolyte compositions having reduced zinc oxide solubility
[DE84-010709] 21 p3392 N84-31525

ZINC SELENIDES
Laser screens of ZnSe produced by bridgeman method 12 p1787 N84-21658
Structural features of polycrystalline ZnSe and solid solutions ZnSa sub I-x S sub x 12 p1788 N84-21659
10.6 micrometer gradient index optical component design
[AD-A141343] 18 p2932 N84-28594
Zinc selenide photoelectrodes. Efficient radiative recombination in a stable photoelectrochemical cell
[AD-A141869] 19 p3051 N84-29360

ZINC SILVER BATTERIES
U SILVER ZINC BATTERIES

ZINC SILVER OXIDE BATTERIES
U SILVER ZINC BATTERIES

ZINC SULFIDES
Methodology for the objective validation of model performance, with an application to atmospheric transport models
[DE83-015693] 06 p0875 N84-15693
10.6 micrometer gradient index optical component design
[AD-A141343] 18 p2932 N84-28594
High resolution cathodoluminescence of yellow and waterclear CVD polycrystalline ZnS
[AD-A141100] 19 p3110 N84-29759

ZINC TELLURIDES
RF sputtering and annealing of amorphous zinc telluride films
[USIP-84-04] 20 p3159 N84-30061

ZINC-BROMIDE BATTERIES
Zinc/bromine prototype-batteries evaluation
[DE83-011861] 01 p0072 N84-10473
Microprocessor-based control system for flowing-electrolyte zinc-bromine battery systems
[DE83-012506] 03 p0369 N84-12403
Development of a circulating zinc-bromine battery, phase 2
[DE84-001886] 04 p0527 N84-13483
Zinc-bromine cell design
[DE84-005532] 11 p1647 N84-20773
Zinc/bromine batteries: A status review
[DE84-008973] 20 p3181 N84-30206
Project summaries, supplement
[DE84-013678] 23 p3744 N84-33734

ZINC-CHLORINE BATTERIES
Zinc electrode morphology in acid electrolytes
[DE84-007184] 14 p2124 N84-23726
Rechargeable zinc batteries
[DE84-008947] 20 p3179 N84-30192

ZIRCONIUM
Adsorbent phosphates
[NASA-TM-76999] 09 p1277 N84-18339
Electrochemical applications of stabilized zirconia 11 p1740 N84-21353
Defect electrochemistry of oxide electrodes 11 p1742 N84-21364
Use of single point contact electrodes to understand porous electrode behavior on solid electrolytes 11 p1742 N84-21365
Oxygen exchange measurements on zirconia-yttria electrolyte surfaces modified by various dopants 11 p1742 N84-21367
Chemical and physical processes on nonemissive grids — grid controlled amplifier tubes
[EVT-825] 12 p1794 N84-21700
Utilization of zirconium wastes in Al-special alloys
[BMFT-FB-T-84-020] 16 p2465 N84-25802
High temperature ceramic interface study
[NASA-CR-174728] 23 p3836 N84-34331

ZIRCONIUM ALLOYS
Amorphous zirconium-nickel films formed by solid state reactions
[DE84-003570] 07 p0978 N84-16326
Oxidation-sulfidation behavior of Fe-Cr-Ni alloys containing additions of Zr, Nb, or Ti
[DE84-005411] 20 p3156 N84-30043

ZIRCONIUM CARBIDES
Procedure for the electroplating of sintered materials containing carbide or cast alloys of tungsten, molybdenum, titanium or zirconium
[BLL-RISLEY-TRANS-4557-(9091.9)] 22 p3551 N84-32484

ZIRCONIUM COMPOUNDS
NT ZIRCONIUM CARBIDES
NT ZIRCONIUM HYDRIDES
NT ZIRCONIUM OXIDES

ZIRCONIUM HYDRIDES
Diffusion properties and phase transitions of the metalic glass a-Zr2-PdH-x
[DE83-016826] 05 p0660 N84-14341

ZIRCONIUM OXIDES
Research on microstructurally developed toughening mechanisms in ceramics
[AD-A130394] 01 p0049 N84-10316
Sintering behavior of refractories in the ternary system ZrO2-Al2O3-Cr2O3 in dependence of the firing atmosphere
[BMFT-FB-T-83-105] 02 p0197 N84-11285
Energy release and transformation of shock-modified zirconia upon annealing to 1550 deg C
[DE83-017801] 05 p0755 N84-14954
Transformation toughened and whisker reinforced ceramics
[DE84-003281] 07 p0979 N84-16346
Some inelastic effects of thermal cycling on yttria-stabilized zirconia
[NASA-TM-83488] 07 p1001 N84-16492
Microstructure and phase composition of sputter-deposited zirconia-yttria films
[DE84-003352] 07 p1082 N84-17039
Optimum dimensions of solid zirconium dioxide-base electrolyte in transducer of activity meter 08 p1234 N84-18064
Compressive strength and damage mechanisms in partially stabilized zirconia
[AD-A137513] 10 p1459 N84-19529
Role of Al-2O-3 in sintering of submicron yttria-stabilized ZrO-2 powders
[AD-A136798] 10 p1460 N84-19533
Overview of zirconia with respect to gas turbine applications
[NASA-TP-2286] 12 p1801 N84-21740
Separator development and testing of nickel-hydrogen cells
[NASA-TM-83653] 13 p1955 N84-22712
Characterization of zirconium alloy oxidation films by alternating current impedence
[DE84-006225] 13 p1965 N84-22786
Lead zirconate-lead titanate (PZT) ceramics from organic-derived precursors
[DE84-009921] 20 p3164 N84-30095
Oxidation characteristics of molybdenum-zirconium oxide cermets
[NASA-TM-77622] 23 p3723 N84-33584
Improved thermal barrier coating system
[NASA-CASE-LEW-14057-1] 23 p3724 N84-33585
High temperature oxidation resistant coatings
[AD-A143633] 23 p3724 N84-33587

ZODIACAL DUST
Minor constituents in the solar wind originating from plasma-dust interactions 03 p0474 N84-13116
The ISPM dust experiment 09 p1262 N84-18230

ZODIACAL LIGHT
Morning twilight observations of the zodiacal light and terrestrial airglow 18 p2526 N84-26222

ZONE MELTING
Effects of yttrium microalloying on the epitaxial grain growth in Ti-6Al-4V weld fusion zones
[AD-A137272] 10 p1459 N84-19528
Effects of fatigue on the G.P. zones in Al-Zn alloys
[AD-A137518] 10 p1459 N84-19530
Purification of metals by zone melting. An optimization 15 p2307 N84-24839
Overview of bulk silicon crystal growth — Czochralski and float zone systems 18 p2935 N84-28617
High-quality silicon films prepared by zone-melting recrystallization 18 p2939 N84-28636
Laser furnace technology for zone refining
[NASA-TM-86459] 22 p3600 N84-32805
Submicron structures technology and research 22 p3683 N84-33353

ZONE REFINING
U ZONE MELTING

ZONES
U REGIONS

VOLUME 22 NUMBERS 1-6

Scientific and Technical

Aerospace Reports

Abstracts **January – March 1984**

TABLE OF CONTENTS

STAR Issue	Page
1	1
2	166
3	311
4	477
5	625
6	767

VOLUME 22 NUMBERS 7-12

Scientific and Technical Aerospace Reports

Abstracts **April – June 1984**

TABLE OF CONTENTS

STAR Issue	Page
7	943
8	1095
9	1249
10	1419
11	1599
12	1763

VOLUME 22 NUMBERS 13-18

Scientific and Technical Aerospace Reports

Abstracts July – September 1984

TABLE OF CONTENTS

STAR Issue	Page
13	1925
14	2093
15	2253
16	2433
17	2585
18	2783

VOLUME 22 NUMBERS 19-24

Scientific and Technical Aerospace Reports

Abstracts **October – December 1984**

TABLE OF CONTENTS

STAR Issue	Page
19	2955
20	3125
21	3323
22	3529
23	3687
24	3847

☆ U.S. GOVERNMENT PRINTING OFFICE : 1985 O - 466-971 : QL 3 Part 1

FEDERAL DEPOSITORY LIBRARY PROGRAM

The Federal Depository Library Program provides Government publications to designated libraries throughout the United States. The Regional Depository Libraries listed below receive and retain at least one copy of nearly every Federal Government publication, either in printed or microfilm form, for use by the general public. These libraries provide reference services and inter-library loans; however, they are *not* sales outlets. You may wish to ask your local library to contact a Regional Depository to help you locate specific publications, or you may contact the Regional Depository yourself.

ARKANSAS STATE LIBRARY
One Capitol Mall
Little Rock, AR 72201
(501) 371-2326

AUBURN UNIV. AT MONTGOMERY LIBRARY
Documents Department
Montgomery, AL 36193
(205) 279-9110, ext. 253

UNIV. OF ALABAMA LIBRARY
Documents Dept.—Box S
University, AL 35486
(205) 348-7369

DEPT. OF LIBRARY, ARCHIVES AND PUBLIC RECORDS
Third Floor—State Cap.
1700 West Washington
Phoenix, AZ 85007
(602) 255-4121

UNIVERSITY OF ARIZONA LIB.
Government Documents Dept.
Tucson, AZ 85721
(602) 626-5233

CALIFORNIA STATE LIBRARY
Govt. Publications Section
P.O. Box 2037
Sacramento, CA 95809
(916) 322-4572

UNIV. OF COLORADO LIB.
Government Pub. Division
Campus Box 184
Boulder, CO 80309
(303) 492-8834

DENVER PUBLIC LIBRARY
Govt. Pub. Department
1357 Broadway
Denver, CO 80203
(303) 571-2131

CONNECTICUT STATE LIBRARY
Government Documents Unit
231 Capitol Avenue
Hartford, CT 06106
(203) 566-4971

UNIV. OF FLORIDA LIBRARIES
Library West
Documents Department
Gainesville, FL 32611
(904) 392-0367

UNIV. OF GEORGIA LIBRARIES
Government Reference Dept.
Athens, Ga. 30602
(404) 542-8951

UNIV. OF HAWAII LIBRARY
Govt. Documents Collection
2550 The Mall
Honolulu, HI 96822
(808) 948-8230

UNIV. OF IDAHO LIBRARY
Documents Section
Moscow, ID 83843
(208) 885-6344

ILLINOIS STATE LIBRARY
Information Services Branch
Centennial Building
Springfield, IL 62706
(217) 782-5185

INDIANA STATE LIBRARY
Serials Documents Section
140 North Senate Avenue
Indianapolis, IN 46204
(317) 232-3686

UNIV. OF IOWA LIBRARIES
Govt. Documents Department
Iowa City, IA 52242
(319) 353-3318

UNIVERSITY OF KANSAS
Doc. Collect—Spencer Lib.
Lawrence, KS 66045
(913) 864-4662

UNIV. OF KENTUCKY LIBRARIES
Govt. Pub. Department
Lexington, KY 40506
(606) 257-3139

LOUISIANA STATE UNIVERSITY
Middleton Library
Govt. Docs. Dept.
Baton Rouge, LA 70803
(504) 388-2570

LOUISIANA TECHNICAL UNIV. LIBRARY
Documents Department
Ruston, LA 71272
(318) 257-4962

UNIVERSITY OF MAINE
Raymond H. Fogler Library
Tri-State Regional Documents Depository
Orono, ME 04469
(207) 581-1680

UNIVERSITY OF MARYLAND
McKeldin Lib.—Doc. Div.
College Park, MD 20742
(301) 454-3034

BOSTON PUBLIC LIBRARY
Government Docs. Dept.
Boston, MA 02117
(617) 536-5400 ext. 226

DETROIT PUBLIC LIBRARY
Sociology Department
5201 Woodward Avenue
Detroit, MI 48202
(313) 833-1409

MICHIGAN STATE LIBRARY
P.O. Box 30007
Lansing, MI 48909
(517) 373-0640

UNIVERSITY OF MINNESOTA
Government Pubs. Division
409 Wilson Library
309 19th Avenue South
Minneapolis, MN 55455
(612) 373-7813

UNIV. OF MISSISSIPPI LIB.
Documents Department
University, MS 38677
(601) 232-5857

UNIV. OF MONTANA
Mansfield Library
Documents Division
Missoula, MT 59812
(406) 243-6700

NEBRASKA LIBRARY COMM.
Federal Documents
1420 P Street
Lincoln, NE 68508
(402) 471-2045
In cooperation with University of Nebraska-Lincoln

UNIVERSITY OF NEVADA LIB.
Govt. Pub. Department
Reno, NV 89557
(702) 784-6579

NEWARK PUBLIC LIBRARY
5 Washington Street
Newark, NJ 07101
(201) 733-7812

UNIVERSITY OF NEW MEXICO
Zimmerman Library
Government Pub. Dept.
Albuquerque, NM 87131
(505) 277-5441

NEW MEXICO STATE LIBRARY
Reference Department
325 Don Gaspar Avenue
Santa Fe, NM 87501
(505) 827-2033, ext. 22

NEW YORK STATE LIBRARY
Empire State Plaza
Albany, NY 12230
(518) 474-5563

UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL
Wilson Library
BA/SS Documents [illegible]
Chapel Hill, NC 27515
(919) 962-1321

UNIVERSITY OF NORTH DAKOTA
Chester Fritz Library
Documents Department
Grand Forks, ND 58202
(701) 777-2617, ext. 27
(In cooperation with North Dakota State Univ. Library)

STATE LIBRARY OF OHIO
Documents Department
65 South Front Street
Columbus, OH 43215
(614) 462-7051

OKLAHOMA DEPT. OF LIB.
Government Documents
200 NE 18th Street
Oklahoma City, OK 73105
(405) 521-2502

OKLAHOMA STATE UNIV. LIB.
Documents Department
Stillwater, OK 74078
(405) 624-6546

PORTLAND STATE UNIV. LIB.
Documents Department
P.O. Box 1151
Portland, OR 97207
(503) 229-3673

STATE LIBRARY OF PENN.
Government Pub. Section
P.O. Box 1601
Harrisburg, PA 17105
(717) 787-3752

TEXAS STATE LIBRARY
Public Services Department
P.O. Box 12927—Cap. Sta.
Austin, TX 78753
(512) 471-2996

TEXAS TECH UNIV. LIBRARY
Govt. Documents Department
Lubbock, TX 79409
(806) 742-2268

UTAH STATE UNIVERSITY
Merrill Library, U.M.C. 30
Logan, UT 84322
(801) 750-2682

UNIVERSITY OF VIRGINIA
Alderman Lib.—Public Doc.
Charlottesville, VA 22901
(804) 924-3133

WASHINGTON STATE LIBRARY
Documents Section
Olympia, WA 98504
(206) 753-4027

WEST VIRGINIA UNIV. LIB.
Documents Department
Morgantown, WV 26506
(304) 293-3640

MILWAUKEE PUBLIC LIBRARY
814 West Wisconsin Avenue
Milwaukee, WI 53233
(414) 278-3000

ST. HIST LIB. OF WISCONSIN
Government Pub. Section
816 State Street
Madison, WI 53706
(608) 262-4347

WYOMING STATE LIBRARY
Supreme Ct. & Library Bld.
Cheyenne, WY 82002
(307) 777-6344

National Aeronautics and
Space Administration

Washington, D.C.
20546

Official Business

Penalty for Private Use, $300

SPECIAL FOURTH CLASS MAIL
Book

Postage and Fees Paid
National Aeronautics and
Space Administration
NASA-451

POSTMASTER: If Undeliverable (Section 158
Postal Manual) Do Not Return

VOLUME 22
1984
ACC. NOS N84-10001 TO N84-35284

STAR
AN ABSTRACT JOURNAL

Scientific and Technical Aerospace Reports

Annual Index 1984

Part Two
PERSONAL AUTHOR
CORPORATE SOURCE
CONTRACT NUMBER
REPORT/ACCESSION NUMBER

PRODUCED BY THE
SCIENTIFIC AND TECHNICAL
INFORMATION
BRANCH

NASA

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

WHAT YOU CAN DO FOR *STAR*

All users of this abstract service are urged to forward reports to be considered for announcement in *STAR*. This will aid NASA in its efforts to provide the fullest possible coverage of all scientific and technical publications that might support aeronautics and space research and development. If you have prepared relevant reports (other than those that you will transmit to NASA, DoD, or DOE through the usual contract- or grant-reporting channels), please send them for consideration to the NASA Scientific and Technical Information Facility, P.O. Box 8757, B.W.I. Airport, Maryland 21240.

Reprints of journal articles, book chapters, and conference papers are also welcome. These will be considered for announcement in *STAR's* companion journal, *International Aerospace Abstracts*.

You may specify a particular source to be included in a report announcement if you wish; otherwise the report will be placed on public sale at the National Technical Information Service. Copyrighted publications will be announced but not distributed or sold.

PURCHASE OF *STAR*

The semimonthly issues are available for sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.

PUBLISHED BY:

UNITED STATES GOVERNMENT
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
SCIENTIFIC AND TECHNICAL INFORMATION BRANCH
Scientific and Technical Aerospace Reports, Volume 22, is prepared by the NASA Scientific and Technical Information Facility operated for the National Aeronautics and Space Administration by PRC Government Information Systems.

The Administrator of the National Aeronautics and Space Administration has determined that the publication of this periodical is necessary in the transaction of the public business required by law of this Agency. Use of funds for printing this periodical has been approved by the Director of the Office of Management and Budget through February 28, 1985.

US ISSN 0036-8741

SPECIAL NOTICE

The abstract sections of the semimonthly *STAR* journals can be bound separately. Individual abstracts can be located readily be means of the page numbers given at each entry, e.g., p 2655. To assist the user in binding *STAR* Volume 22, four (4) title pages are included in the back of Part I of the Annual Index.

For sale by the Superintendent of Documents, U.S. Government Printing Office Washington, D.C. 20402

VOLUME 22 NUMBERS 1-24

Scientific and Technical Aerospace Reports

Annual Index (Part II) January – December 1984

TABLE OF CONTENTS

Page

PART I

Introduction iii
Subject Index A-1

PART II

Introduction iii
Personal Author Index B-1
Corporate Source Index C-1
Contract Number Index D-1
Report/Accession Number Index E-1

INTRODUCTION

WHAT STAR ANNUAL INDEXES ARE

This Annual Index is an edited consolidation of the indexes to the individual issues of *Scientific and Technical Aerospace Reports (STAR)* for the calendar year 1984 (Volume 22 Numbers 1 through 24). For the convenience of the user, it is divided into two parts, each bound separately. Part I contains the Subject Index. Part II contains the Personal Author Index, Corporate Source Index, Contract Number Index, and Report/Accession Number Index. The Annual Index supersedes the semimonthly indexes previously issued during 1984.

Each entry in this index includes a group of identifying numbers in the following form: 22 p 3530 N84-32350. The first two digits (22) identify the issue in which the document was announced. The "p" and the four digits that follow (3530) refer to the page number, in the designated issue, on which the abstract of the document appears. The next group of numbers (N84-32350) is the NASA Accession Number, a unique identification number assigned by NASA to each document that was acquired, indexed, and announced in *STAR* during the year.

In addition to these identifying numbers each entry in the Subject Index contains a title or title and title extension. Each entry in the Personal Author and Corporate Source Indexes contains the title of the document.

At the beginning of each index in this cumulation, a typical listing is illustrated with each of its elements identified to assist the reader in using the different types of index entries.

HOW TO USE THE SUBJECT INDEX

Subject terms in this cumulative index are arranged alphabetically, and are supplemented with cross-references which are intended to serve as directions that will enable the user to modify, enlarge, or narrow his search in accordance with his specific interests. The subject headings have been selected from the latest revision of the *NASA Thesaurus*. Two types of cross-references are used:

1. Use (U) references direct the user to alternate headings under which material on the subject may be found. For example:

   ANNULAR JETS
   U ANNULAR FLOW
   U JET FLOW
   COLUMBIAN
   U NIOBIUM

2. Narrower Term (NT) references refer the user to more specific headings in the same subject area, under which additional material on the subject may be found. For example:

   EMISSION
   NT ELECTRON EMISSION
   NT NEUTRON EMISSION
   NT THERMAL EMISSION

Finally, a searcher should use the titles and title extensions in the index to narrow further his quest for particular items. This is because subject terms can readily refer to more than one class of document. For example:

CATHODES
Cesium plasma cathodes as sources of high intensity electron beams
Cathode material testing in electrochemical half cells

This illustrates a case where two references on different topics are listed under the same subject term.

HOW TO USE THE PERSONAL AUTHOR INDEX

All personal authors identified in the abstract-section citations in the individual *STAR* issues appear in this index. Differences in transliteration schemes may require multiple searching of the index for variants of an author's name. For example:

EMELIANOV, M. D.
YEMELYANOV, M. D.

HOW TO USE THE CORPORATE SOURCE INDEX

The corporate source index entries are abridged versions of the corporate sources used in the abstract-section citations in the individual issue supplements. The corporate source supplementary (organizational component) does not appear in the index. For example:

PRINCETON UNIV., N.J. DEPT. OF CHEMICAL ENGINEERING.
(Corporate source at citation)
PRINCETON UNIV., N.J.
(Corporate source index entry)

HOW TO USE THE CONTRACT NUMBER INDEX

All contract numbers that are identified in the abstract-section citations in the individual *STAR* issues appear in this index. Changes by agencies in the style in which contract numbers are presented may require multiple searching for variants. For example:

AF 33(615)-67-C-1758
F33615-67-C-1758

HOW TO USE THE REPORT/ACCESSION NUMBER INDEX

All report numbers that have been assigned by the corporate source, monitoring activity, or cataloging activity appear in this index. Variations in initial input may result in different report number series. For example:

TP-924
ONERA-TP-924

A COMPREHENSIVE INFORMATION SERVICE

The National Aeronautics and Space Administration makes the results of worldwide research and development activities in aeronautics, space, and supporting disciplines promptly available to participates in its programs. NASA's scientific and technical information system now contains nearly a million documents, which are abstracted, indexed, and obtained through retrieval and dissemination services. These services which include the abstract journal, *Scientific and Technical Aerospace Reports (STAR),* are described fully in a bulletin, *The NASA Scientific and Technical Information System ... and How to Use It,* available at no charge from the NASA Scientific and Technical Information Facility, P.O. Box 8757, B.W.I. Airport, Maryland 21240.

AVAILABILITY OF DOCUMENTS

Information concerning the availability of documents announced in the *STAR* issues covered in this index is found in the Introduction to the most currently issued semimonthly issue.

PUBLIC COLLECTIONS OF NASA DOCUMENTS

DOMESTIC: NASA and NASA-sponsored documents and a large number of aerospace publications are available to the public for reference purposes at the library maintained by the American Institute of Aeronautics and Astronautics, Technical Information Service, 555 West 57th Street, 12th Floor, New York, New York 10019.

EUROPEAN: An extensive collection of NASA and NASA-sponsored publications is maintained by the British Library Lending Division, Boston Spa, Wetherby, Yorkshire, England for public access. The British Library Lending Division also has available many of the non-NASA publications cited in *Star*. European requesters may purchase facsimile copy or microfiche of NASA and NASA-sponsored documents, those identified by both the symbols # and * from ESA - Information Retrieval Service European Space Agency, 8-10 rue Mario-Nikis, 75738 Paris CEDEX 15, France.

FEDERAL DEPOSITORY LIBRARY PROGRAM

In order to provide the general public with greater access to U.S. Government publications, Congress established the Federal Depository Library Program under the Government Printing Office (GPO), with 50 regional depositories responsible for permanent retention of material, inter-library loan, and reference services. Over 1,300 other depositories also exist. A list of the regional GPO libraries appears on the inside back cover.

PERSONAL AUTHOR INDEX

Typical Personal Author Index Listing

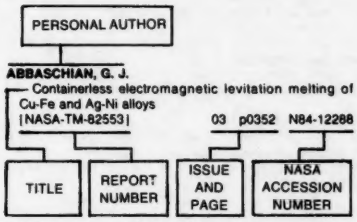

Listings in this index are arranged alphabetically by personal author. Titles, without title extensions, are provided under each personal author entry. The report number helps to indicate the type of document cited (e.g., NASA report, translation, NASA contractor report). The issue and page number identify the *STAR* issue in which the document was announced and the page number on which the citation appears. The NASA accession number denotes the number by which the citation is identified on that page. The listings are arranged under each personal author in ascending accession number order.

A

AAMODT, R. E.
Nonlinear orbits in free-electron lasers with a linear magnetic wiggler and a strong axial magnetic guide field
[AD-A135984] 09 p1323 N84-18642

AARDOOM, L.
Precise orbit determination for ERS-1
[ESA-CR(P)-1842] 12 p1776 N84-21591
Space/Airborne Laser Ranging (SALR) as complement to groundbased transportable Satellite Laser Ranging (SLR) 24 p3906 N84-34742

AARON, R. D.
The cost growth problem: A realistic diagnosis and solution
[AD-A131082] 01 p0159 N84-11049

AARONSON, H. I.
Barriers to the migration of interphase boundaries
[AD-A137902] 11 p1633 N84-20679

AAS, P.
Modulation of the cholinergic mechanisms in the bronchial smooth muscle
[NDRE/PUBL-84/1001] 21 p3457 N84-31937

ABALAKIN, V. K.
Theory of rotation of the rigid Earth
07 p1030 N84-16674

ABARCAR, R.
Innovative industrial-materials processes
[DE83-016784] 03 p0405 N84-12649

ABATE, J. A.
Characterization of micron-sized, optical coating defects by photothermal deflection microscopy
[DE84-011150] 20 p3301 N84-30960

ABBASCHIAN, G. J.
Containerless electromagnetic levitation melting of Cu-Fe and Ag-Ni alloys
[NASA-TM-82553] 03 p0352 N84-12288
Grain refining and microstructural modification during solidification
[AD-A134605] 07 p0974 N84-16314
Electromagnetic levitation coil fabrication technique for MSFC containerless processing facilities
[NASA-TM-82565] 09 p1306 N84-18535

ABBASI-GHELMANSARAI, F.
On systems with spectral cluster points and their relation to H sup p spaces
[RR-235] 13 p2038 N84-23222

ABBE, D.
Evolution of the phonon spectrum and the density of states at the Fermi level near the martensitic transformation in NiAl, Ti(NiCo), CuZnAl and InTl alloys
[ESA-TT-767] 16 p2465 N84-25801

ABBOT, R. I.
Satellite orbit theory for a small computer
[AD-A139406] 14 p2112 N84-23660

ABBOTT, D. E.
Theoretical and experimental investigation of coherent structure in the turbulent boundary layer
[AD-A140517] 16 p2493 N84-25996

ABBOTT, J. K.
Combustibility of electrical wire and cable for rail rapid transit systems. Volume 2: Toxicity
[DOT-TSC-UMTA-83-4.2-VOL-2] 02 p0217 N84-11421
Inhalation toxicology. 3: Evaluation of thermal degradation products from aircraft and automobile engine oils, aircraft hydraulic fluid, and mineral oil
[AD-A133221] 06 p0889 N84-15778

ABBOTT, K. H.
A route generator concept for aircraft onboard fault monitoring
[NASA-TM-86264] 21 p3326 N84-31104

ABBOTT, M. R.
Biological oceanography 20 p3217 N84-30437

ABBOTT, N. J.
Seamless collapsible fuel tanks
[AD-A131933] 03 p0383 N84-12496
Development and fabrication of collapsible fuel storage drums for arctic use
[AD-A141207] 18 p2798 N84-27754

ABBOTT, T. S.
In-trail dynamics of multiple CDTI-equipped aircraft queues
[NASA-TM-85699] 07 p0953 N84-16178
Simulation of a cockpit-display concept for executing a wake-vortex avoidance procedure
[NASA-TP-2300] 12 p1770 N84-21542

ABBOTT, U. K.
Avian embryonic development in hyperdynamic environments
[NASA-CR-173339] 09 p1360 N84-18885

ABBOTT, W. Y.
Evaluation of UH-1H hover performance degradation caused by rotor icing
[AD-A141252] 18 p2793 N84-27727

ABDALLAH, S.
Modified 5-point and 9-point schemes for the solution of the Vorticity- transport equation with cross derivatives
[AD-A142720] 20 p3284 N84-30851

ABDEL-HAMEED, M.
Research on shock models, wear processes, replacement and maintenance policies
[AD-A135620] 09 p1382 N84-19028

ABDEL-HAMID, T.
The dynamics of software development project management: An integrative systems dynamic perspective
[NASA-CR-175342] 07 p1054 N84-16824

ABDELRAZIK, M.
The dielectric behavior of snow in the 3 to 37 GHz range 23 p3768 N84-33884

ABDELSALAM, M. K.
Magnetic suspension and balance system study
[NASA-CR-3802] 20 p3132 N84-29888

ABDON, M. D. M.
Maps of favorable areas for tuna fishing in the southwestern Atlantic prepared from satellite data
[INPE-2891-PRE/410] 02 p0239 N84-11565
Maps of favorable areas for tuna fishing to the South and Southeast of Brazil prepared from SMS-2 satellite data
[INPE-3102-PRE/501] 16 p2532 N84-26256

ABDU, M. A.
Behavior of the total electron content in the ionosphere in Sao Jose dos Campos during magnetic storms in 1980
[INPE-2810-PRE/368] 02 p0248 N84-11623
Plasma bubble irregularity occurrence and zonal velocities under quiet and disturbed conditions, from polarimeter observations
[INPE-3023-PRE/461] 12 p1846 N84-22036
Solar cycle related range type spread F occurrence characteristics over equatorial and low latitude stations in Brazil
[INPE-3024-PRE/462] 12 p1846 N84-22037
Equatorial plasma bubble eastward velocity characteristics from scanning airglow photometer measurements over Cachoeira Paulista
[INPE-3026-PRE/464] 12 p1847 N84-22039
A rocket-borne Langmuir probe for in-situ measurement of ionospheric plasma
[INPE-3206-PRE/564] 21 p3349 N84-31244
Nighttime enhancements in the TEC and magnetic storm response of the tropical F-region over Brazil
[INPE-3038-PRE/469] 21 p3442 N84-31839
The variation of range type spread F occurrence with a solar cycle at Fortaleza and Cachoeira Paulista
[INPE-3209-PRE/566] 23 p3797 N84-34080

ABDULGAFAROV, S. Y.
Impact of weak electric field on photoconductivity of modified vitreous As2Se3 20 p3286 N84-30867

ABDULIN, A.
Metallogenic studies in Kazakhstan outlined
24 p3869 N84-34520

ABDULMAJEED, M. K.
Separation and staging mechanisms for the Indian SLV-3 launch vehicle 15 p2349 N84-25095

ABE, H.
Non-metallic optical cable with optical fiber catenary for long span aerial application 11 p1722 N84-21235

ABE, Y.
Experimental study of the naphtaline heat pipe
20 p3169 N84-30125
Effect of thermal irradiation from evaporation source to photo-darkening sensitivity of vacuum deposited AgBr film 21 p3477 N84-32038
Improvement in quality of silicon-based amorphous films 21 p3477 N84-32041

ABED, E. H.
Persistence of the Hopf bifurcation under singular perturbations
[DE84-013871] 22 p3646 N84-33120

ABEL, E.
Mechanism and kinetics of the oxidation of the iodide ion by oxygen
[BLL-CE-TRANS-8005-(9022.09)]
19 p2987 N84-28924

ABEL, I.
Experiences with the design and implementation of flutter suppression systems 11 p1619 N84-20593
Active controls: A look at analytical methods and associated tools
[NASA-TM-86269] 21 p3419 N84-31684

ABEL, J. F.
Intersection of parametric surfaces using lookup tables 12 p1870 N84-22185

ABEL, K.
Civil applications of infrared techniques
[BMFT-FB-T-83-132] 02 p0267 N84-11753

ABELES, F.
Research and development for investigations of metallic adsorptions on metal surfaces by optical techniques complemented by dc resistivity and auger spectroscopy
[AD-A131739] 03 p0361 N84-12351

ABELES, J.
Postprocessing for the UCLA climate model
12 p1854 N84-22079
Stratocumulus simulations with a general circulation model 12 p1856 N84-22090
Design for and efficient dynamic climate model with realistic geography 12 p1856 N84-22092

ABELL, J. B.
A development of logistics management models for the Space Transportation System
[NASA-CR-173504] 14 p2113 N84-23664
ABERNATHY, R. N.
Measurements of hypergolic fuels' and oxidants' permeation through commercial protective materials: Part 1. Inhibited red fuming nitric acid and unsymmetrical dimethylhydrazine
[AD-A134714] 08 p1139 N84-17411
ABERNETHY, R. B.
Weibull analysis handbook
[AD-A143100] 21 p3475 N84-32023
ABEYTA, R. D.
Management of risk and uncertainty in systems acquisition: Proceedings of the 1983 Defense Risk and Uncertainty Workshop
[AD-A136230] 09 p1397 N84-19124
ABHYANKAR, R. B.
A new treatment of incomplete information and retrieval in relational data bases 06 p0934 N84-16069
ABIRI, A. A.
Parameterization and approximation methods in feedback theory with applications in high gain, fast sampling and cheap optimal control
[RR-241] 13 p2031 N84-23167
ABLOWITZ, M. J.
Nonlinear wave propagation
[AD-A141098] 19 p3004 N84-29038
ABOLHASSANI, J. S.
Application of the method of lines for solutions of the Navier-Stokes equations using a nonuniform grid distribution
[NASA-CR-173180] 07 p1060 N84-16870
ABORN, R. A.
An investigation of non-extravehicular activity (Non-EVA) on-orbit maintenance support concepts for orbiting systems
[AD-A134957] 08 p1107 N84-17199
ABOUDI, J.
The effective behavior of inelastic composites 15 p2308 N84-24850
ABOUL-ATTA, O.
On the quasi-periodic microstrip snake antenna with metal trough backing
[AD-P003510] 21 p3384 N84-31478
ABOULWAFA, M. E. S.
Thermodynamic field theory of the dynamic behavior of bipolar junction transistors 21 p3390 N84-31510
ABOUSTIT, B. L.
Finite element investigations of thermo-elastic and thermo-plastic consolidation 11 p1667 N84-20875
ABRAHAM, B. M.
Method and apparatus for measuring shear modulus and viscosity of a monomolecular film
[DE84-014502] 23 p3761 N84-33841
ABRAHAM, E.
Multi-parameter universal route to chaos in a Fabry-Perot resonator 14 p2233 N84-24399
ABRAHAM, K. M.
Moderate temperature rechargeable NaNiS2 cells 11 p1744 N84-21376
Long cycle life secondary lithium cells utilizing tetrahydrofuran
[AD-A140762] 17 p2723 N84-27331
ABRAHAM, Z.
The October 1983 recurrence of the outburst of the Orion water maser source and its past history
[INPE-2985-PRE/444] 07 p1088 N84-17076
The 22 GHz continuum and spectral index maps of the galactic center region
[INPE-3275-PRE/599] 24 p3987 N84-35239
ABRAHAMSON, A. L.
A preliminary design study on an acoustic muffler for the laminar flow transition research apparatus
[NASA-CR-172374] 19 p2958 N84-28748
ABRAHAMSON, P. C.
A nested-decomposition approach for solving staircase linear programs
[DE83-3013560] 02 p0274 N84-11792
ABRAHAMSON, T. D.
A critique of NAVSTAR Global Positioning System, user equipment, configuration control for DoD common and Navy unique items
[AD-A131234] 01 p0008 N84-10047
ABRAHAMSON, T. E.
Modeling the behavior of type 304 stainless steel with a unified creep-plasticity theory 21 p3417 N84-31672
ABRAMOPOULOS, F.
An X-ray survey of clusters of galaxies with the Einstein Observatory and a study of iron sedimentation in the intracluster gas 10 p1595 N84-20454
ABRAMOV, G. A.
How to check line channel of IKM-15 digital pulse-code-modulation transmission system 17 p2633 N84-26842
ABRAMOV, I.
Real-time synthetic aperture radar image formation utilizing an electrooptic spatial light modulator 07 p0989 N84-16411
ABRAMOVITZ, M.
Experimental investigation of elastic mode control on a model of a transport aircraft
[NASA-CR-3472] 18 p2792 N84-27721
ABRAMS, B. S.
Adaptive feedforward linear wideband HF power bank
[AD-A134744] 08 p1151 N84-17493
ABRAMS, H. C.
Improved paint removal technique
[AD-A136671] 10 p1467 N84-19580
ABRAMS, J.
Turbulent flow over small amplitude solid waves
[AD-A137876] 11 p1653 N84-20789
ABRAMS, M.
Interpretation of combined LANDSAT-Heat Capacity Mapping Mission (HCMM) data for geological analysis. Evaluation of scale effect on interpretation of a multisource image 23 p3769 N84-33894
ABRAMS, M. J.
Evaluation of thermal data for geologic applications
[NASA-CR-173211] 07 p1033 N84-16703
ABRAMS, R. B.
Radiometric calibration and processing procedure for reflective bands on LANDSAT-4 protoflight Thematic Mapper 20 p3206 N84-30366
TM digital image products for applications 20 p3206 N84-30371
Radiometric calibration and processing procedure for reflective bands on LANDSAT-4 protoflight Thematic Mapper
[E84-10056] 21 p3426 N84-31731
TM digital image products for applications
[E84-10178] 21 p3428 N84-31749
Characterization of radiometric calibration of LANDSAT-4 TM reflective bands
[E84-10182] 21 p3429 N84-31753
TM digital image products for applications
[E84-10183] 21 p3429 N84-31754
ABRAMSON, P.
Design of a twisted pair cable for a token passing local area network 11 p1724 N84-21249
ABRANSON, S. R.
Operator performance on flat-panel displays with line and cell failures
[AD-A142340] 20 p3265 N84-30716
ABRAO, R. B.
Design study for a low density wind tunnel
[INPE-3072-TDL/160] 17 p2610 N84-26707
ABRATE, S.
Analysis of large space structures 11 p1623 N84-20621
ABREU, L. W.
Atmospheric transmittance/radiance: Computer code LOWTRAN 6. Supplement: Program listings
[AD-A137689] 11 p1706 N84-21123
Atmospheric transmittance/radiance: Computer code LOWTRAN 6
[AD-A137786] 11 p1707 N84-21126
ABROMAVAGE, M. M.
Extremely Low Frequency (ELF) communications system ecological monitoring program: Plan and summary of 1982 progress
[AD-A135482] 08 p1144 N84-17445
ABROSIMOV, S. V.
Effect of sydnocarb on hemodynamics and redistribution of blood during functional tests following six-hour antiorthostatic hypokinesia 07 p1045 N84-16777
Effect of dihydroergotamine on human circulation during orthostatic tests 20 p3253 N84-30646
ABSAR, I.
Vectorization of a penalty function algorithm for well scheduling 10 p1562 N84-20233
ABSHER, R.
Sensitivity based segmentation and identification in automatic speech recognition
[AD-A142255] 19 p3008 N84-29068
ABSHIRE, J. B.
Remote sensing of atmospheric pressure and sea state from satellites using short-pulse multicolor laser altimeters 06 p0872 N84-15674
ABTAHI, H.
Potential applications of cable television (CATV) to the FEMA (Federal Emergency Management Agency) communications mission
[AD-A131326] 02 p0209 N84-11367
ABUBAKER, M. S.
Analysis of carbon dioxide bands near 2.2 micrometers
[NASA-CR-173605] 16 p2462 N84-25779
ABUELFOUTOUH, N. M.
A thermodynamically consistent constitutive model for inelastic flow of materials 06 p0857 N84-15581
ABUJELALA, M. T.
Confined turbulent swirling recirculating flow predictions
[NASA-CR-175397] 10 p1491 N84-19745
ABUL-FADL, A.
Material growth and characterization for solid state devices
[NASA-CR-173265] 10 p1587 N84-20401
ABUSALI, P. A. M.
Non-gravitational force modelling and altimeter measurement modelling for SEASAT-A satellite 11 p1621 N84-20609
ACAR, L.
The performance of an LMS (Least Mean Square) adaptive array with frequency hopped signals
[AD-A136461] 09 p1298 N84-18489
ACCORNERO, A.
Aerodynamics and steam wetness fraction of a multistage turbine. Comparison of prediction with experimental data 06 p0840 N84-15475
ACEVEDO, W.
The effect of spatial, spectral and radiometric factors on classification accuracy using thematic mapper data
[NASA-TM-85995] 20 p3227 N84-30510
The effect of spatial, spectral and radiometric factors on classification accuracy using Thematic Mapper data 23 p3766 N84-33872
ACHAR, B. N.
Process for preparing phthalocyanine polymers
[NASA-CASE-ARC-11511-1] 07 p0986 N84-16259
Metal phthalocyanine polymers
[NASA-CASE-ARC-11405-1] 18 p2817 N84-27884
ACHENBACH, J. D.
Plane stress crack-line fields for crack growth in an elastic perfectly-plastic material
[AD-A134868] 08 p1171 N84-17630
Direct and inverse diffraction problems for QNDE (Quantitative Non-Destructive Evaluation) applications
[AD-A135838] 09 p1327 N84-18668
Plastic deformations near a rapidly propagating crack tip
[AD-A138273] 12 p1826 N84-21907
Effect of inertia on finite near-tip deformation for fast Mode-3 crack growth
[AD-A142947] 21 p3422 N84-31706
ACHOUR, A.
Littlewood Paley's g function associated with a singular differential operator (0, infinity) 13 p2032 N84-23180
ACHTEMEIER, G. L.
Variational objective analyses for cyclone studies 24 p3924 N84-34840
ACHTERMANN, E.
POPSAT: A candidate satellite system for solid Earth applications and sciences. Preliminary feasibility study. Volume 1: Summary
[ESA-CR(P)-1882-VOL-1] 17 p2614 N84-26735
POPSAT: A candidate satellite system for solid Earth applications and sciences. Preliminary feasibility study. Volume 2: Development program
[ESA-CR(P)-1882-VOL-2] 17 p2614 N84-26736
Center of mass correction and its confidence for the Precise Orbital Positioning Satellite (Popsat) 24 p3906 N84-34738
ACHTLIGER, J.
Reduction of heat insulation upon soaking of the insulation layer
[BMFT-FB-T-83-193] 07 p1004 N84-16513
ACHTOR, T. H.
The advantages of sounding with the smaller detectors of the VISSR atmospheric sounder
[NOAA-TM-NESDIS-6] 20 p3240 N84-30571
ACHTZEHNTER, J.
Soliton bag: Dynamics and the quark plasma
[DE84-001103] 05 p0745 N84-14895
ACKER, D. D.
Defense systems acquisition review process: A history and evaluation
[AD-P002822] 13 p2061 N84-23367
ACKERHALT, J. B.
Chaos in semiclassical model of multiphoton excitation of spherical top molecules
[DE83-014201] 02 p0289 N84-11897
ACKERMAN, B.
Summary of the VIN field program: Summer 1979
[AD-A130836] 01 p0108 N84-10704
ACKERMAN, J. D.
SPEC-DOC: A user's guide to spectrometer software
[DE83-013295] 02 p0274 N84-11790

ACKERMAN, J. P.
Solid-oxide fuel-cell performance
[DE83-017926] 03 p0368 N84-12396
Solid-oxide fuel cells
[DE83-017925] 04 p0527 N84-13469
Moltencarbonate fuel cells, development status
[DE84-000612] 04 p0529 N84-13480
Advanced fuel cell development
[DE84-008964] 18 p2834 N84-27994
Method of fabricating a monolithic core for a solid oxide fuel cell
[DE84-014665] 23 p3743 N84-33727
Solid oxide fuel cell having monolithic core
[DE84-014659] 23 p3743 N84-33728

ACKERMAN, M.
A sample performance of the grille spectrometer aboard Spacelab
[AERONOMICA-ACTA-A-281-1984] 16 p2494 N84-26003
Trace constituants measurements deduced from spectrometric observations onboard Spacelab
[AERONOMICA-ACTA-A-286-1984] 20 p3239 N84-30565

ACKERMANN, F. E.
Seminar on mathematical models of geodetic/photogrammetric point determination with regard to outliers and systematic errors
[SER-A-98] 16 p2504 N84-26069
Mathematical models of photogrammetric point determination 16 p2504 N84-26070

ACKERMANN, R. A.
Stirling-engine heat-actuated heat pump
[DE83-017137] 04 p0537 N84-13529
Split-Stirling-cycle displacer linear-electric drive 06 p0820 N84-15343

ACKLESON, S. G.
Parametric and nonparametric analysis of LANDSAT TM and MSS imagery for detecting submerged plant communities 20 p3215 N84-30424

ACKLEY, M. H.
Profs' Doppler radar data processing system. Part 1: Design and implementation with application to NEXRAD algorithms
[PB84-165224] 14 p2182 N84-24073

ACKLEY, S. F.
Sea ice 20 p3218 N84-30446

ACOSTA, H. M.
Control device manipulative behavior, arousal and performance during a compensatory tracking task
[AD-A133921] 05 p0713 N84-14670

ACOSTA, R.
Secondary pattern computation of an arbitrarily shaped main reflector
[NASA-TM-85527] 16 p2481 N84-25909

ACREE, C. W., JR.
Preliminary results of the first static calibration of the RSRA helicopter active-isolator rotor balance system
[NASA-TM-84395] 04 p0483 N84-13178
Results of the first complete static calibration of the RSRA rotor-load-measurement system
[NASA-TP-2327] 21 p3328 N84-31111

ACREE, D. W.
Supplemental grounding of extending EMP collectors
[AD-A131255] 01 p0067 N84-10440

ACTIS, R.
Lossless symmetric TEM line IMPATT diode power combiners
[AD-A142599] 20 p3178 N84-30187

ACUNA, M. H.
Spectral analysis of magnetohydrodynamic fluctuations near interplanetary schocks
[NASA-TM-85119] 03 p0462 N84-13044
Modification to shock fitting program
[NASA-TM-86097] 16 p2548 N84-26353
The Z3 model of Saturns magnetic field and the Pioneer 11 vector helium magnetometer observations
[NASA-TM-86118] 17 p2776 N84-27623

ADABO, P.
Low noise microwave frequency synthesizers
[INPE-2796-PRE/358] 11 p1642 N84-20733
Phase modulator in 41.650 MHz
[INPE-3177-PRE/544] 21 p3391 N84-31515
FM synthesizer-modulator with 1200 channels for SCPC transmission of voice signals by satellite
[INPE-2815-PRE/371] 23 p3730 N84-33638

ADACHI, K.
Phase transformations in nearly stoichiometric nickel-manganese alloys 21 p3364 N84-31340

ADAIR, E. R.
Thermoregulation: Long-term microwave effects
[AD-A140844] 17 p2745 N84-27432

ADAM, Y.
Finite difference methods for convective-diffusive equations 06 p0835 N84-15432

ADAMCZYK, A. A.
HC quench layer formation in combustion processes
[DE84-005068] 12 p1823 N84-21883

ADAMCZYK, J. J.
Numerical aspects of unsteady flow calculations 16 p2489 N84-25968
Unsteady transonic flow in cascades
[NASA-TM-83780] 22 p3530 N84-32351

ADAMENKO, A. Y.
Procedure for determination of damping capability of turbomachine blades subjected to heat and centrifugal forces 17 p2642 N84-26905

ADAMESCU, R. A.
Texture effect on anisotropy of electric and magnetic properties of titanium alpha-alloys 23 p3708 N84-33506

ADAMS
Pin rooted blade biaxial air seal
[AD-D011086] 22 p3537 N84-32391

ADAMS, A.
Air as an adjustable insulator for C-V and G-V analysis of semiconductor surfaces
[AD-A141437] 19 p3013 N84-29099

ADAMS, B. B.
Transverse horizontal coherence and low-frequency array gain limits in the deep ocean
[AD-A131916] 03 p0430 N84-12821

ADAMS, B. R.
Chopped molecular beam multiplexing system
[NASA-CASE-LAR-13174-1] 15 p2404 N84-25431

ADAMS, D. F.
A study of polymer matrix fatigue properties
[AD-A135076] 08 p1122 N84-17294
Axial test methods development for 3-D cylindrical-weave carbon-carbon composite materials
[AD-A138221] 12 p1790 N84-21672

ADAMS, D. J.
Behaviour of four non-migratory antioxidants in solid polyethylene insulation 11 p1721 N84-21228

ADAMS, G. W.
Evidence for parallel elongated structures in the mesosphere 17 p2689 N84-27122

ADAMS, J. D.
MSW (magnetostatic wave) variable time-delay techniques
[AD-A133770] 05 p0753 N84-14941

ADAMS, J. E.
NETWORK: A user oriented, interactive, station-siting program for NOAA (National Oceanic and Atmospheric Administration) VHF weather radio
[PB84-202233] 21 p3466 N84-31978

ADAMS, J. H., JR.
Heavy ions in space (M0001) 15 p2275 N84-24662

ADAMS, J. J.
Pilot response with conventional displays 03 p0313 N84-12040
Display research: Pilot response with the "follow-me" box display 03 p0313 N84-12043
Simulator study of pilot-aircraft-display system response obtained with a three-dimensional-box pictorial display
[NASA-TP-2122] 04 p0484 N84-13182

ADAMS, J. W.
Property screening and evaluation of ceramic turbine materials
[AD-A142739] 21 p3343 N84-31210

ADAMS, K. E.
Computerized static firing analysis techniques of solid propellant rocket motors 13 p1944 N84-22641

ADAMS, L. M.
A methodology for exploiting parallelism in the finite element process
[NASA-CR-172219] 01 p0127 N84-10831
Design, development and use of the finite element machine
[NASA-CR-172250] 03 p0424 N84-12777
Modelling algorithm execution time on processor arrays
[NASA-CR-172289] 08 p1211 N84-17899

ADAMS, L. R.
Hinge specification for a square-faceted tetrahedral truss
[NASA-CR-172272] 07 p1015 N84-16586

ADAMS, M. L.
Nonlinear/transient rotor dynamics analysis 13 p2000 N84-22977
Interactive finite elements for general engine dynamics analysis 21 p3421 N84-31698

ADAMS, N. G.
Ionic reactions of atmospheric importance
[AD-A137166] 11 p1683 N84-20981

ADAMS, O. B.
Design of the Advanced Toroidal Facility (ATF-1)
[DE83-012641] 03 p0445 N84-12923

ADAMS, P. H.
Transient temperature response of strain gages, revision 1
[DE83-017514] 03 p0378 N84-12459

ADAMS, R. G.
Ultraviolet-laser triggering of a 5-megavolt multistage gas switch
[DE83-013641] 01 p0087 N84-10570
An improved method for the prediction of centrifugal compressor rotational-tone noise
[DE84-013345] 22 p3605 N84-32842
Ultraviolet laser triggering of the 6 MV PBFA-2 gas switch
[DE84-014004] 23 p3755 N84-33802

ADAMS, S. E.
Architectural and control considerations for a high speed signal processor implemented with an Ada (Trademark) executive
[AD-P003594] 21 p3341 N84-31199

ADAMS, W. A.
High stability buffered phase comparator
[NASA-CASE-GSC-12645-1] 07 p0996 N84-16454

ADAMS, W. C.
Ozone toxicity effects consequent to prolonged, high intensity exercise
[PB83-237388] 02 p0267 N84-11755

ADAMS, W. M., JR.
Tools for active control system design 11 p1617 N84-20582
STABCAR: A program for finding characteristic root systems having transcendental stability matrices
[NASA-TP-2165] 17 p2751 N84-27461
Design of a candidate flutter suppression control law for DAST ARW-2
[NASA-TM-86257] 20 p3131 N84-29883
Active controls: A look at analytical methods and associated tools
[NASA-TM-86269] 21 p3419 N84-31684

ADAMS, W. W.
Model compound studies of rigid rod aromatic heterocyclic polymer systems, the X-ray crystal structure of 2,6-diphenylbenzo (1,2-d; 5,4-d') diimidazole tetrahydrate, C2OH14N4. 4H2O, a model system for the study of polymer-water interaction in polybenzimidazoles
[AD-A135278] 08 p1137 N84-17393

ADAR, E.
Estimation of recharge in a small southern Arizona basin by means of hydrological, hydrochemical, and environmental isotope data
[PB84-159672] 20 p3230 N84-30527

ADASKO, V.
Research continues with Intercosmos-Bolgariya-1300 satellite 12 p1775 N84-21577

ADATI, K.
Buildup and sustainment of 10(13) and cm(-3) plasma by ICRF in RFC-XX
[IPPJ-653] 10 p1580 N84-20356
Conceptual design of the RFC reactor
[IPPJ-659] 11 p1733 N84-21304
Plasma heating, confinement and stabilization experiments in axisymmetric mirror-cusp device
[IPPJ-690] 24 p3965 N84-35105

ADCOCK, J. L.
Low temperature fluorination of aerosol suspensions of hydrocarbons utilizing elemental fluorine
[AD-A139958] 15 p2287 N84-24721

ADDY, A. L.
Fluid dynamic mechanisms and interactions within separated flows and their effects on missile aerodynamics
[AD-A130631] 01 p0079 N84-10514

ADEGRAN, M.
Thermal effects resulting from occupant behavior and building operation 16 p2515 N84-26143

ADELFANG, S. I.
Vector wind gust model
[NASA-CR-171029] 15 p2371 N84-25222

ADELMAN, H. M.
Thermal analysis research applicable to space station technology needs
[NASA-TM-84658] 06 p0834 N84-15426
Static and dynamic structural-sensitivity derivative calculations in the finite-element-based Engineering Analysis Language (EAL) system
[NASA-TM-85743] 11 p1668 N84-20880
Selection of actuator locations for static shape control of large space structures by heuristic integer programing
[NASA-TM-85769] 17 p2616 N84-26741

ADEN, T. C.
Hypervelocity missile: Based on the concept of aircraft/missile integration for maximum firepower 03 p0315 N84-12058

ADKINS, J. S.
Guide to the geology of Australia
[BMR-BULL-181] 23 p3797 N84-34076

ADKINS, S.
Advanced document retrieval system
[AD-A139385] 14 p2247 N84-24498
ADLASOR, M.
Flame acceleration mechanisms under conditions of partial confinement
[PB83-244012] 03 p0358 N84-12328
ADLER, F. L.
A concept for mission-oriented planning for system acquisition at the Defense Communications Agency
[AD-P002823] 13 p2061 N84-23368
ADLER, L.
Ultrasonic methods to study shadow boundaries of diffracting cracks. Ultrasonic caustics in NDE (Non-Destructive Evaluation)
[AD-A138839] 13 p1999 N84-22970
ADLER, M.
A microchemical derivation of the differential equations of interfacial statics. 3: Line tension
15 p2307 N84-24844
ADLER, R. F.
Rain estimation from satellites: An examination of the Griffith-Woodley technique
[NASA-TM-84969] 04 p0566 N84-13735
ADLER, R. J.
IBEX: Annular beam propagation experiment
[DE84-000456] 04 p0599 N84-13954
Beam propagation experimental study
[AD-A133310] 06 p0915 N84-15946
Theory and applications of random fields
[AD-A142346] 20 p3283 N84-30847
Autogenerator of beams of charged particles
[DE84-014242] 22 p3654 N84-33163
Experimental investigation of certain beam transport issues in a pulsed transmission line linear accelerator
[DE84-011191] 22 p3654 N84-33164
ADLER, R. P. I.
Critical dynamics for continuous rapid solidification processing
[AD-A134257] 07 p0974 N84-16313
ADLER, R. S.
Preliminary airworthiness evaluation of the UH-60A configured with the External Stores Support System (ESSS)
[AD-A132964] 05 p0630 N84-14139
ADLERSTEIN, M. G.
A 20-GHz IMPATT diode development
[S-3057] 02 p0212 N84-11387
ADNEY, P. S.
Design of a composite wing extension for a general aviation aircraft
[NASA-CR-173832] 22 p3534 N84-32377
ADOLF, H. G.
3,5,5-trinitro-3-azaheptane-1,7-diol and a method of synthesis
[AD-D011132] 22 p3562 N84-32555
ADOLPH, H. G.
Synthesis of energetic materials
[AD-A130974] 02 p0200 N84-11299
Synthesis and properties of trisubstituted trinitrobenzenes. TATB analogs
[AD-A131619] 02 p0203 N84-11322
Synthesis of energetic materials
[AD-A141495] 19 p3001 N84-29021
ADOMENAS, V. P.
Inspection of products for reliability indicators
18 p2824 N84-27926
ADONEV, N. M.
Optimization of the parameters of the arc suppressing system of high-voltage apparatuses with a thyristor attachment
[BLL-OA-TRANS-3139-(6196.3)]
06 p1149 N84-17476
ADOUE, J. A.
Pretest plan for a quarter scale AFT segment of the SRB filament wound case in the NSWC hydroballistics facility
[NASA-CR-171028] 15 p2281 N84-24699
ADRIANOV, V. N.
Interaction of high-intensity radiation with matter
[BLL-M-35558-(5828.4)] 17 p2764 N84-27553
ADT, R. R., JR.
Experimental hydrogen-fueled automotive engine design data-base project, volume 1
[DE83-017023] 02 p0204 N84-11331
Experimental hydrogen-fueled automotive engine design data-base project. Volume 2: Main technical report
[DE83-017025] 02 p0204 N84-11332
Experimental hydrogen-fueled automotive engine design data-base project. Volume 3: Main technical report (appendices)
[DE83-017362] 18 p2848 N84-28086
ADZIC, R. R.
Structure of silver (100) and (111) single-crystal surfaces obtained by chemical polishing
[AD-A140148] 16 p2560 N84-26424
AEBI, V.
Organometallic epitaxy for GaAs/AlGaAs microwave transistors and integrated circuits
[AD-A133569] 06 p0923 N84-16001
AEBY, I.
Using photoconductivity to improve image-tube gating speeds
[DE84-001732] 05 p0676 N84-14443
Nanosecond image-shuttering studies at Los Alamos National Laboratory
[DE84-001733] 06 p0830 N84-15405
AEPLI, T. C.
LANDSAT-4 system description
20 p3205 N84-30361
AEPPLI, G.
Spin correlations near the ferromagnetic to spin glass crossover
[DE84-007385] 15 p2299 N84-24799
AERENS, R.
The Grindomatic or the optimization of cutting conditions during production for plunge-cut grinding
[CRIF-MC-76] 07 p1012 N84-16569
AFCHAIN, D.
The F2 wind tunnel at Fauga-Mauzac
[NASA-TM-77482] 19 p2969 N84-28814
AFEYAN, R.
How useful are odd-integer half-harmonics
[DE84-012392] 21 p3501 N84-32190
AFFENS, W. A.
A statistical examination of the effect of composition on the freezing points of hydro-carbon mixtures
[AD-A131000] 02 p0203 N84-11321
AFIFI, A.
Determination of the sources of radar scattering
12 p1834 N84-21954
AFONSO, G. B.
Drag on geodynamic satellites
19 p3118 N84-29818
AFSAR, M. N.
Precise measurement of refractive index and absorption coefficient of near millimeter wave and far infrared materials
[AD-A138656] 13 p2043 N84-23253
Impurity and defect characterization in epitaxial GaAs InP and the ternary and quaternary compound semiconductors
[AD-A143551] 22 p3664 N84-33225
AFZALI, M.
Fracture mechanics formulas on microcomputers
[CETIM-100960] 21 p3424 N84-31722
AGABABOV, A.
Improved management of scientific progress in Armenia urged
01 p0158 N84-11041
AGADZHANYAN, N. A.
Exchange of gases and physical work capacity in natives of different geographic regions
20 p3254 N84-30656
AGAFONOV, S. V.
Normal human coronary circulation during postural tests and decompression of lower half of body
02 p0259 N84-11699
AGAHI, M.
Second order partial differential equations of mixed type
03 p0424 N84-12775
AGAMALYAN, A. G.
Effect of periodic accelerations of 5 G on kinetics of erythrocyte hemolysis in white rats
07 p1046 N84-16782
AGAPAKIS, J. E.
Feasibility of remotely manipulated welding in space. A step in the development of novel joining technologies
[NASA-CR-175437] 11 p1664 N84-20857
AGAPOVA, L. V.
Detection of latent atherosclerotic stenosing lesions to great vessels of the head in flight personnel
07 p1046 N84-16787
AGARWAL, A.
Redox behavior of high temperature electrodes
11 p1741 N84-21359
AGARWAL, G. S.
Optical bistability, chaos in the coherent two photon processes
14 p2231 N84-24384
AGARWAL, R.
Diffusion measurements in microemulsions
[AD-A133801] 05 p0648 N84-14265
AGARWAL, R. K.
Logic simulator program 06 p0927 N84-16023
AGARWALA, V. S.
Causes and prevention of structural materials failures in naval environments
[AD-A141560] 19 p2994 N84-28972
AGAYAN, G. M.
Stable method for solving linear programming problem with approximate data 21 p3484 N84-32077
AGEE, W. S.
Application of the principal component method to trajectory estimation
[AD-P002951] 14 p2199 N84-24191
AGEYEV, Y. I.
Use of Peltier effect for small signal amplification and conversion 20 p3286 N84-30864
AGGARWAL, B. B.
Development of a 3-d microscale topography system, phase 1
[AD-A137871] 11 p1633 N84-20677
Development of a 3-d microscale topography system, phase 2
[AD-A137872] 11 p1633 N84-20678
Development of a 3-D microscale topography system
[AD-A138809] 13 p2006 N84-23013
Solid lubrication design methodology
[NASA-CR-174690] 22 p3677 N84-33309
AGGARWAL, I. D.
Design, fabrication and testing of a ruggedized fiberoptic cable 11 p1724 N84-21245
Optical and mechanical properties of single mode cables at 1300 nm 11 p1726 N84-21258
AGGARWAL, J. K.
Detection of cracks on highway pavements
[PB83-238204] 04 p0516 N84-13389
Volumetric representation for object model acquisition
12 p1870 N84-22189
AGGARWAL, R. K.
Hierarchical multisensor image understanding
[AD-A144593] 24 p3898 N84-34688
AGGARWAL, R. L.
Infrared nonlinear processes in semiconductors
[AD-A141032] 18 p2940 N84-28649
Infrared nonlinear optics 22 p3682 N84-33346
AGGARWAL, S. K.
Ignition and flame propagation in sprays
[AD-A143773] 23 p3713 N84-33538
AGGSON, T. L.
Probe measurement of DC electric fields
08 p1116 N84-17255
AGHINA, J. C. F.
Physiological and psychological aspects of the piloting of modern high-performance combat aircraft
06 p0778 N84-15099
AGNENI, A.
Assessment of the existing ground test technology and confronting with the Large Space Structures (LSS) requirements. Experimental techniques in structural analysis 12 p1781 N84-21621
San Marco D/L solar array system design and performance
[NASA-TM-86125] 24 p3916 N84-34795
AGNEW, C.
Global energy and CO2-induced climate change
[PB84-145895] 12 p1862 N84-22131
Global energy futures and CO2-induced climate change, appendices
[PB84-145903] 12 p1862 N84-22132
Global energy future and CO2 induced climate change: Executive summary
[PB84-145911] 12 p1862 N84-22133
AGNEW, D. C.
Sea level variations and ocean dynamics in the Aleutian Islands
[AD-A139421] 14 p2183 N84-24079
AGNOLETTI, F.
Description of the Gornergrat telescope control system
[IFSI-84-3] 18 p2850 N84-28096
AGNONE, A.
Investigation of aerodynamics of non axisymmetric projectiles
[AD-A139107] 14 p2101 N84-23609
AGODISYAN, K. S.
Evaluation of characteristics of system of space-time processing of signals by statistical simulation method
17 p2633 N84-26845
AGRAWAL, A.
A survey of network reliability
[AD-A133545] 06 p0899 N84-15835
AGRAWAL, A. K.
Bounding of signal levels at terminations of a multiconductor transmission-line network
[AD-A139757] 15 p2329 N84-24983
AGRAWAL, B. L.
Management and performance of APPLE battery in high temperature environment 23 p3738 N84-33693
AGRAWAL, B. N.
Nonstationary resonance oscillations
10 p1506 N84-19848
AGRAWAL, G. P.
Zeeman coherence effects in absorptive polarization bistability 14 p2235 N84-24412

AGRAWAL, S.
Asymptotic theory of an unseparated supersonic turbulent boundary layer at a compression corner
06 p0780 N84-15112
AGRAWAL, S. K.
Modified reflex-percussive grooves for runways
[AD-A143569] 22 p3538 N84-32400
AGRESTI, R.
Electromagnetic radiation from a moving conducting tether
[IFSI-84-2] 18 p2831 N84-27973
AGRESTI, W.
Managers handbook for software development
[NASA-TM-85604] 13 p2028 N84-23150
AGRITELLIS, C.
The effect of field index fluctuations on the dynamics of a high current electron ring in a modified betatron accelerator
[AD-A133089] 05 p0745 N84-14891
AGROSKIN, L. S.
Microspectrophotometer for crystal analysis by absorption reflectometry 20 p3289 N84-30883
AGTERBERG, R.
Dispersion experiments with sulfur hexafluoride from the 213m high meteorological mast at Cabauw in the Netherlands 08 p1183 N84-17706
AGUIAR, O. D.
Efficiency of wood as a passive shielding for particles and photons of 0.5 to 4.6 MeV between 940 and 377 mb
[INPE-2864-PRE/399] 02 p0288 N84-11891
AGUILER, L.
Lessons learned from the development and manufacture of ceramic reusable surface insulation materials for the space shuttle orbiters 01 p0025 N84-10158
AGUIRRE, J. L. D. B.
CNPq/INPE LANDSAT system
[E84-10071] 07 p1020 N84-16618
AGUIRRE, S.
Coherent digital demodulation of a residual carrier signal using IF sampling 22 p3574 N84-32634
AGY, V.
Air-to-ground HF (High Frequency) propagation prediction model for fast multicircuit computation
[PB84-145961] 12 p1810 N84-21802
AGYEKUM, E.
Feasibility studies of Conversion Electron Moessbauer Spectroscopy (CEMS) of iron-doped InP
[AD-A142463] 20 p3309 N84-31014
AHARONIAN, F. A.
Gamma ray line emission, nuclear destruction and neutron production in hot astrophysical plasmas. Deuterium boiler as a gamma ray source
[REPT-762] 11 p1733 N84-21301
AHEARN, J. S.
Environmental durability of aluminum adhesive joints protected with hydration inhibitors
[AD-A135304] 09 p1288 N84-18412
Study of factors determining the radiation sensitivity of quartz crystal oscillators (A0189)
15 p2279 N84-24686
AHERN, F. J.
Evaluating LANDSAT-4 MSS and TM data
[E84-10157] 17 p2709 N84-27249
AHERN, J.
Acid precipitation in southeastern Wyoming
[PB84-132521] 10 p1533 N84-20039
AHERRON, R. M.
A simulation of remote sensor systems and data processing algorithms for spectral feature classification
[NASA-CR-172393] 22 p3597 N84-32784
AHL, E. L., JR.
Latching mechanism for deployable-restowable columns
[NASA-CASE-LAR-13169-1] 15 p2343 N84-25063
AHLBERG, L.
Detection of closed internal fatigue cracks
[DE83-017686] 04 p0549 N84-13620
AHLBORN, H.
Influences affecting separation in monotectic alloys under microgravity 17 p2612 N84-26723
AHLF, J.
The neutron induced embrittlement of reactor pressure vessel steels and ferritic alloys
[AD-B080746] 15 p2295 N84-24770
AHLSWEDE, M.
Field evaluation of proposed ICAO annex 16 takeoff noise certification procedure for propeller-driven airplanes not exceeding 5700 kg
[DFVLR-FB-83-34] 12 p1901 N84-22378
AHMAD-BITAR, R.
Atomic resonance and scattering
22 p3681 N84-33339
AHMAD, I. A.
Fitting a multiple regression function
[AD-A133482] 06 p0905 N84-15874
AHMAD, J.
A critical review of the short crack problem in fatigue
[AD-A131349] 02 p0231 N84-11516
AHMAD, S.
Remote-ended time domain bandwidth measurements on installed regenerator sections of multimode optical fibre cable in the British Telecom Network
11 p1727 N84-21267
AHMADI, G.
A numerical technique in the hydrodynamic theory of foil bearings
[AD-P002966] 14 p2200 N84-24204
AHMADJIAN, M.
Telemetry bandwidth selection for infrared surveillance sensors
[AD-A144251] 24 p3861 N84-34466
AHMED, H. M.
A comparison of arithmetic units in VLSI signal processing systems 09 p1403 N84-19165
AHMED, N.
Second-order adaptive infinite impulse response filter
[DE84-001768] 06 p0831 N84-15406
Detection of multiple sinusoids using an adaptive cascaded structure
[DE84-005521] 11 p1645 N84-20753
AHMED, S.
Flight test of a synthetic aperture radar antenna using STEP 08 p1113 N84-17237
AHMED, S. A.
Characteristics of inhomogeneous jets in confined swirling air flows 11 p1612 N84-20550
An experimental investigation of gas jets in confined swirling air flow
[NASA-CR-3832] 23 p3694 N84-33412
AHMED, S. B.
German/Indian cooperation program for solar powered water pumps, phase 1
[BMFT-FB-T-83-171] 07 p1026 N84-16651
AHMED, S. F.
Survey of design tools for passive and hybrid low energy buildings 16 p2516 N84-26147
AHN, T. M.
Prediction of long term crevice corrosion and hydrogen embrittlement behavior of ASTM grade-12 titanium
[DE84-002575] 14 p2128 N84-23759
AHRENS, L.
Status of P714 - LAPDOG
[DE83-013613] 01 p0164 N84-11079
AHRENS, L. A.
Neutrino-oscillation experiments at Brookhaven National Laboratory
[DE83-018275] 04 p0528 N84-13476
AHRENS, M.
Remarks on the stability of viscometric flow
[AD-A134571] 07 p1002 N84-16500
AHRENS, S. T.
Laboratory discharge studies of a 6 V alkaline lantern-type battery Eveready Energizer no. 528, under various ambient temperatures (-15 deg C and + 22 deg C) and loads (30 omega and 60 omega)
18 p2800 N84-27772
AHRENS, T. J.
Impact cratering and spall failure at gabbro
[NASA-CR-174618] 04 p0562 N84-13704
Impact and explosion crater ejecta, fragment size, and velocity
[NASA-CR-174578] 05 p0733 N84-14813
FeO and H-2O and the homogeneous accretion of the earth
[NASA-CR-173242] 07 p1028 N84-16664
Shock compaction of molybdenum powder
[NASA-CR-173154] 08 p1133 N84-17369
Shock wave properties of anorthosite and gabbro
[NASA-CR-173309] 08 p1155 N84-17521
Shock temperatures in anorthite glass
[NASA-CR-173364] 09 p1287 N84-18401
Shock consolidation of powders: Theory and experiment
[DE84-007273] 13 p1961 N84-22741
A sensitive optical pyrometer for shock-temperature measurements
[NASA-CR-173602] 16 p2495 N84-26011
Orbiting dynamic compression laboratory
[NASA-CR-173704] 18 p2798 N84-27755
Shock vaporization and the accretion of the icy satellites of Jupiter and Saturn
[NASA-CR-173767] 19 p3122 N84-29843
Mechanical properties of a shock consolidated steel powder
[DE84-003573] 20 p3158 N84-30056
AHUJA, K. K.
Basic experimental study of the coupling between flow instabilities and incident sound
[NASA-CR-3789] 11 p1728 N84-21275
AHUMADA, A. J., JR.
Uniform apparent contrast noise: A picture of the noise of the visual contrast detection system
[NASA-TM-85867] 19 p3067 N84-29458
AICHER, W.
Adaptive correction of control machines
[ISD-301] 16 p2484 N84-25929
An inductive process in automatic recording of crack propagation
[ISD-298] 16 p2502 N84-26056
Utilization of light wave scales and opto-electronic transformers for measuring distortion and expansion
[ISD-309] 16 p2557 N84-26402
AIELLO, S.
A comprehensive ultraviolet extinction study: Grain model and grain evolution implications
24 p3982 N84-35232
AIGNER, M.
Optical measurements of droplet size distributions: Special considerations in the parameter definition for fuel atomizers 15 p2290 N84-24745
AIHARA, K.
Nonlinear dynamics in excitable nerve membranes
21 p3477 N84-32037
AIKEN, E. W.
A review of US Army aircrew-aircraft integration research programs
[NASA-TM-85947] 19 p2968 N84-28809
AIKEN, R. C.
International Conference on Stiff Computation
[AD-A135265] 08 p1219 N84-17956
AIKENS, D. A.
Transient photochemistry of neutral red
[AD-A131564] 18 p2810 N84-27839
AINSWORTH, O. R.
The generalized Euler-Mascheroni constants
[NASA-TP-2264] 06 p0906 N84-15880
AINSWORTH, R.
The generalized Euler-Mascheroni constants
06 p0927 N84-16024
AISENBERG, S.
Ion deposited carbon coatings
[AD-A135068] 08 p1136 N84-17390
AITA, O.
Surface properties of metal-nitride and metal-carbide films deposited on Nb for RF superconductivity
[DE84-001491] 04 p0614 N84-14055
AITHAL, A. R.
Harmonic maps from S-2 to IHP-2
22 p3645 N84-33109
AKAISHI, A.
An R and D model of a synthetic aperture radar antenna 23 p3777 N84-33949
AKASOFU, S.
Numerical modeling of ionospheric parameters from global IMS (International Magnetospheric Study) magnetometer data for the CDAW-6 intervals
[PB84-151307] 14 p2177 N84-24041
AKASOFU, S. I.
Solar wind disturbances in th outer heliosphere caused by successive solar flares from the same active region
03 p0472 N84-13104
Distributions of aurora and ionospheric currents observed simultaneously on a global scale
[AD-A140615] 17 p2727 N84-27360
A numerical simulation study of solar wind disturbances responsible for geomagnetic and auroral storms
[AD-A144178] 24 p3993 N84-35266
AKBARI, H.
Computer program for studying turbulent convection in buildings 16 p2517 N84-26155
AKE, T. B., III
Egress spectra of the new eclipsing supergiant 22 Vulpeculae 24 p3980 N84-35215
AKHTER, M. M.
HYTESS: A hypothetical turbofan engine simplified simulation
[NASA-TM-83561] 07 p0954 N84-16184
AKHVERDYAN, L. A.
Normal magnetic field maps for Caucasus region for epoch 1980 18 p2861 N84-28168
AKI, K.
Effects of lateral heterogeneities on the propagation, scattering, and attenuation of the seismic waves and the characterization of the seismic source
[AD-A140595] 17 p2727 N84-27359
AKIMOTO, T.
An experimental study on the induced rolling moment due to wing-tail interference and roll-controllable two-stage rocket
[NAL-TR-793] 12 p1777 N84-21599
AKIMOV, L. A.
Optical studies of moon rock samples at various degrees of maturity 19 p2975 N84-28861

AKIMOV, V. Y.
Investigation of the possibilities for the electrodepositon of titanium from non-aqueous solutions
[BLL-OA-TRANS-3069-(6196.3)] 04 p0498 N84-13267

AKIN, D. L.
Space applications of Automation, Robotics And Machine Intelligence Systems (ARAMIS). Volume 3, phase 2: Executive summary
[NASA-CR-3736] 01 p0089 N84-10582
Space Applications of Automation, Robotics and Machine Intelligence Systems (ARAMIS), phase 2. Volume 1: Telepresence technology base development
[NASA-CR-3734] 01 p0089 N84-10583
Space Applications of Automation, Robotics and Machine Intelligence Systems (ARAMIS), phase 2. Volume 2: Telepresence project applications
[NASA-CR-3735] 01 p0090 N84-10584
Human factors in space telepresence
[NASA-CR-173420] 13 p2023 N84-23119

AKIN, L. S.
Parameter studies of gear cooling using an automatic finites element mesh generator
[NASA-TM-83721] 18 p2849 N84-28087
An investigation of the transient thermal analysis of spur gears
[NASA-TM-83724] 18 p2849 N84-28088
Lubricant jet flow phenomena in spur and helical gears with modified center distances and/or addendums for out-of-mesh conditions
[NASA-TM-83723] 19 p3031 N84-29224

AKINSHCHIKOVA, G. I.
Determination of a subjects condition according to pitch of the vocal vowel 'A' 02 p0261 N84-11714

AKITA, K.
Current researches on fire retardant materials in Japan 04 p0510 N84-13342
Recent Japanese progress in fire modeling 04 p0511 N84-13353
Modeling of compartment fires 04 p0512 N84-13364
New modeling of compartment fires and problem of flashover 04 p0513 N84-13365
Fine pointing control of the solar UV telescope on the sounding rocket S-520-5
[ISAS-608] 06 p0938 N84-16094

AKITAYA, E.
Hardness of wet snow, 2 15 p2353 N84-25119
Report of pit-wall observations of snow cover in Sapporo, 1982 - 1983 23 p3762 N84-33843
Snow cover observations at Avalanche Research Station, Tolkanbetsu, northern Hokkaido, 15 (1982-1983 winter) 23 p3762 N84-33844

AKKERHUIS, J. N.
Typesetting and TROFF
[MC-IW-247/83] 17 p2772 N84-27601

AKKERMAN, J. W.
High altitude aerodynamic platform concept evaluation and prototype engine testing
[NASA-TM-58256] 07 p0953 N84-16182

AKKERMANS, G. P. M.
Diffraction of a plane electromagnetic wave by an elliptic cylinder: The multi-origin technique
[PB83-166769] 06 p0827 N84-15390

AKLUFI, M. E.
Chemical etching of transformed structures
[AD-D011188] 24 p3966 N84-35114

AKOPYAN, A. V.
Bremsstrahlung from longitudinal plasma waves produced by subthermal electrons in plasma 21 p3488 N84-32102

AKOPYAN, S. T.
Excitation of spheroidal oscillations in viscoelastic Earth 17 p2702 N84-27214

AKPEROV, M. M.
Use of Peltier effect for small signal amplification and conversion 20 p3286 N84-30864

AKRAMKHODZHAYEV, A. M.
New variant of evaluation of predicted petroleum and as reserves on genetic basis 17 p2703 N84-27219

AKSENOV, V. V.
Separating normal and anomalous fields using measurements in limited area 18 p2859 N84-28159

AKSU, G.
Free vibration analysis of uniform and nonuniform cantilever beams by including the effects of transverse shear deformation and rotary inertia 15 p2402 N84-25417

AKUZAWA, M.
Ultrastructural alterations in skeletal muscle fibers of rats after exercise
[NASA-TM-76976] 23 p3804 N84-34117

AL-ASTRABADI, F.
Thermal control of tethered satellite in a very low altitude aerodynamic mission 10 p1446 N84-19444
Simplification of thermal design by the use of effective sink temperature method 10 p1448 N84-19461

AL-HAMMOUD, A.
The inclusion of flexible joints in the stiffness method
[TT-8401] 18 p2854 N84-28122

AL-JISHI, R.
A model for superconductivity in graphite intercalation compounds
[AD-A133862] 05 p0753 N84-14937

AL-KHAIAT, H. A.
Analysis of plates by the initial-value method 06 p0863 N84-15622

AL-RUWAIS, A. S.
Adaptive array behavior with periodic phase modulated interference
[AD-A132229] 04 p0521 N84-13427

AL-SAIDI, I.
Observation of optical hysteresis in an all-optical passive ring cavity 14 p2240 N84-24447

AL-SHEIKH, A. M. S.
A thin-walled beam finite element
[TT-8302] 03 p0425 N84-12779

ALAKEL, M. N.
Multisensor speech input
[AD-A140894] 17 p2654 N84-26974

ALAM, J.
Effect of crack curvature on stress intensity factors for ASTM standard compact tension specimens
[NASA-CR-168280] 02 p0231 N84-11513
Solution of elastic and elasto-plastic problems by the method of lines 06 p0856 N84-15573

ALANEN, E.
Exact image theory for the Sommerfeld half-space problem with a vertical magnetic dipole
[REPT-S-142] 10 p1572 N84-20301
Exact image theory for the Sommerfeld half-space problem with a vertical electric di-pole
[REPT-S-144] 15 p2320 N84-24926

ALANIYA, M. V.
A crossed scintillation supertelescope to measure the muon component of cosmic ray intensity 24 p3994 N84-35274
The density distribution of galactic cosmic rays allowing for the generalized tensor of anisotropic diffusion and for the real distribution of solar activity 24 p3994 N84-35275

ALANKO, T. O.
Empirical studies of program behaviour in virtual memory
[PB84-112267] 08 p1214 N84-17921

ALANSARI, A. R. A. J.
Numerical solution of the two-phase, three dimensional boundary layer in laminar film condensation over a curved surface 03 p0375 N84-12442

ALARIO, J. P.
Direct-contact high-temperature thermal energy storage heat exchanger
[DE84-000012] 12 p1816 N84-21839
Multi-leg heat pipe evaporator
[NASA-CASE-MSC-20812-1] 22 p3592 N84-32748
Improved monogroove heat pipe design: Insulated liquid channel with bridging wick
[NASA-CASE-MSC-20497-1] 24 p3899 N84-34692

ALAVI, M.
Anisoptropic diffusion kinetics of metals and carbides in pyrolytic graphite
[BLL-CTO-2261-(9091.9F)] 19 p2991 N84-28953

ALAYLIOGLU, A.
Numerical evaluation of finite Fourier integrals
[CSIR-TWISK-273] 07 p1060 N84-16868

ALAYLIOGLU, H.
An accurate and economical finite element family for large order structural analysis
[CSIR-ME-1780] 07 p1015 N84-16584
An accurate and economical plate-bending hybrid finite element 11 p1712 N84-21163

ALBAUGH, H.
Advanced strain-gage pressure transducer
[AD-A136063] 09 p1303 N84-18518

ALBERDA, M. E.
Telemetry simulation assembly implementation in the DSN 10 p1475 N84-19633

ALBERSHEIM, S. R.
Helicopter noise survey conducted at Norwood, Massachusetts on April 27, 1983
[AD-A131053] 01 p0140 N84-10922
Helicopter noise survey performed at Parker Center, Pasadena, and Anaheim, California, on February 10-14, 1983
[AD-A130982] 02 p0288 N84-11887

ALBERT, K. W.
Target super-resolution compensation for coherent airborne radar utilizing spread spectrum waveforms
[AD-A138545] 13 p1982 N84-22866

ALBERT, M. R.
Computer models for two-dimensional transient heat conduction
[AD-A134893] 08 p1160 N84-17549
Modeling two-dimensional freezing using transfinite mappings and a moving-mesh finite element technique
[AD-A144131] 24 p3900 N84-34696

ALBERTAZZI, S.
Radioactivity levels in humid and dry fallout gathered in the last 20 years in some points of the Padana Valley (Italy)
[CISE-2069] 05 p0701 N84-14598

ALBERTE, R. S.
Prochloron-ascidian symbioses: Photosynthetic potential and productivity 10 p1544 N84-20117
Prochloron expedition 10 p1544 N84-20120

ALBERTIN, C.
Selectivity of low tension circuit protection: The SELLIM system
[CAHIERS-TECHNIQUES-126] 15 p2331 N84-24996

ALBERTS, J. R.
Behavioral biology of mammalian reproduction and development for a space station
[NASA-CR-173493] 13 p2019 N84-23092

ALBERTSON, M. R.
Design, test, and evaluation of an Air Force environmental model and data exchange
[AD-A143226] 22 p3638 N84-33060

ALBERTY, R. L.
Profs' Doppler radar data processing system. Part 1: Design and implementation with application to NEXRAD algorithms
[PB84-165224] 14 p2182 N84-24073

ALBINI, J. C.
Quality at the crossroads
[AD-P002818] 13 p2060 N84-23363

ALBRECHCINSKI, T. M.
Results from wind tunnel and artificial rainfall tests of the modified scan sensor
[AD-A133238] 06 p0792 N84-15162
Laboratory investigation of the fate of diesel emissions in the atmosphere
[PB84-118496] 09 p1343 N84-18772

ALBRECHT, R.
Storage, retrieval, and analysis of ST data 18 p2843 N84-28051

ALBRIGHT, J. N.
Microearthquakes induced during hydraulic fracturing at the Fenton Hill HDR site: The 1982 experiments
[DE83-014191] 03 p0408 N84-12672
Nevada test site seismic-telemetry measurements
[DE84-000447] 04 p0564 N84-13719

ALBRIGHT, N. W.
Roles of ionizing radiation in cell transformation
[DE84-013397] 22 p3629 N84-32995

ALBRO, C. S.
Frictional hold of various sheave configurations on synthetic ropes
[AD-A139808] 15 p2343 N84-25067

ALCORN, G. E.
Imaging X-ray spectrometer
[NASA-CASE-GSC-12682-1] 23 p3749 N84-33765

ALCORN, J. S.
Comparative evaluation of existing concepts for a 10-tesla FED toroidal field coil
[DE83-012817] 03 p0429 N84-12815

ALDEN, M.
Yields photosynthetic efficiencies, and proximate chemical composition of dense cultures of marine microalgae, a subcontract report
[DE83-011992] 04 p0570 N84-13757

ALDERFER, C. P.
An intergroup perspective on group dynamics
[AD-A135582] 10 p1551 N84-20167

ALDISSI, M.
Soluble polyacetylenic and polyaromatic polymers and method of making the same
[DE84-014314] 23 p3725 N84-33607

ALDO, G.
Crop identification by means of spectral profiles 23 p3768 N84-33888

ALDRED, W.
Bifunctional oxygen electrodes
[DE84-002774] 07 p0972 N84-16296

ALDRICH, B. R.
High gradient directional solidification furnace
[NASA-CASE-MFS-25963-1] 07 p1007 N84-16531

ALDRICH, C. H.
Investigation of laminar shocks
[DE84-010074] 20 p3242 N84-30582

ALDRIDGE, B.
Fire detection using the NOAA (National Oceanic and Atmospheric Administration)-series satellites
[PB84-176890] 17 p2722 N84-27324

ALDRIDGE, K. D.
Inversion of ringdown data for a rotating liquid cylinder
[AD-A134742] 08 p1159 N84-17546
ALEA, P.
Statistical correlation of structural mode shapes from test measurements and NASTRAN analytical values
[NASA-TM-86044] 16 p2501 N84-26054
ALEFELD, G.
A device for the acceleration of convergence of a monotonously enclosing iteration method
16 p2541 N84-26307
ALEKSANDROV, B. I.
Influence of the base metal on the wear-resistance of high-strength cast iron
[BLL-M-35504-(5828.4)] 12 p1796 N84-21712
ALEKSANDROV, V. V.
Inertial and shear flow 20 p3288 N84-30874
ALEKSANDROVA, Y. A.
Adaptive effects of repeated immersion on man
15 p2376 N84-25258
ALEKSEENKO, L. S.
Optimum dimensions of solid zirconium dioxide-base electrolyte in transducer of activity meter
08 p1234 N84-18064
ALEKSEEV, V. I.
Thermodynamic activity of carbon in solid nickel
[BLL-M-35192-(5828.4)] 01 p0040 N84-10258
ALEKSEYEV, A. A.
Fluctuations in chemical composition of titanium alloy Beta-solid solution in preseparation stage
12 p1786 N84-21650
ALEKSEYEV, V. N.
Alignment of multistate laser amplifiers with periodic space filtration of beam 21 p3381 N84-31452
ALEKSEYEVA, N. Y.
Genetic control and phenotypic correction of cellular immune response to H-antigen of Salmonella typhimurium 17 p2740 N84-27400
ALEKSIN, V. A.
Three-dimensional turbulent boundary layers at biellipticai bodies in stream of compressible gas at some angle of attack 17 p2648 N84-26936
ALEMAR, J. D.
Elastic wave scattering from cylindrical cavities and solid inclusions analyzed by the resonance method
[AD-P002971] 14 p2201 N84-24207
ALEMDAROGLU, H. N.
Aeroacoustic noise measurements in wind tunnel
14 p2097 N84-23584
ALENTYEV, A. N.
Nonuniformity and effectiveness of light collection in a large scintillation counter of ionizing radiation
24 p3994 N84-35277
ALESSI, J. G.
Ionization of polarized hydrogen atoms
[DE84-007378] 14 p2223 N84-24340
ALET, I.
Thermal control of the SPOT platform
10 p1441 N84-19411
Sun focusing by satellite antenna reflectors
10 p1445 N84-19439
A Maltese cross shaped mobile thermal control shutter 10 p1447 N84-19454
Geostationary satellite with Sun pointing platform and geocentric payload 10 p1447 N84-19455
ALEXANDER, C. A.
Some scoping experiments for a space reactor
[DE84-009101] 20 p3298 N84-30941
ALEXANDER, D.
The effect of spatial, spectral and radiometric factors on classification accuracy using thematic mapper data
[NASA-TM-85995] 20 p3227 N84-30510
The effect of spatial, spectral and radiometric factors on classification accuracy using Thematic Mapper data
23 p3766 N84-33872
ALEXANDER, E. F.
Evaluation of selected commercial construction equipment for bomb damage repair
[AD-A140907] 17 p2611 N84-26714
ALEXANDER, J. B.
Narrow-band photometry of faint red stars, 2
[BULL-191] 08 p1243 N84-18126
ALEXANDER, J. H.
Polar code development
[AD-P002122] 16 p2524 N84-26208
ALEXANDER, J. K.
Increased metabolism and dead space as components of ventilation at high altitude
[AD-A130827] 06 p0887 N84-15766
Variable inhibition by falling CO2 of hypoxic ventilatory response in man
[AD-A130658] 06 p0887 N84-15768
Voyager observations of Jovian millisecond radio bursts
[NASA-TM-86052] 07 p1093 N84-17109
ALEXANDER, K. B.
Design and analysis of a generalized class of fin-line filters
[AD-A136050] 09 p1309 N84-18558
ALEXANDER, M. B.
Wind speed and direction shears with associated vertical motion during strong surface winds
[NASA-TM-82566] 08 p1190 N84-17756
ALEXANDER, P. M.
Atmospheric scintillation at 94 GHz
[AD-A134743] 08 p1145 N84-17452
ALEXANDER, R. B.
Evidence for acid-precipitation-induced trends in stream chemistry at hydrologic bench-mark station
[USGS-CIRC-910] 10 p1531 N84-20029
ALEXANDER, R. K.
A comparison of the tube-side performance of enhanced heat transfer tubing for Naval condensers
[AD-A126938] 17 p2667 N84-27008
ALEXANDER, S.
Squeezable electron tunneling junctions
[AD-A132884] 05 p0754 N84-14946
ALEXANDER, S. S.
Lateral variations in geologic structure and tectonic setting from remote sensing data
[AD-A130758] 01 p0105 N84-10683
Combined use of remote sensing and seismic observations to infer geologically recent crustal deformation, active faulting, and stress fields
[E84-10057] 06 p0864 N84-15628
Synthesis of regional crust and upper-mantle structure from seismic and gravity data
[E84-10061] 06 p0864 N84-15631
Anion permselective membrane
[NASA-CR-174725] 19 p3050 N84-29358
ALEXANDER, W., JR.
Steady internal flow and aerodynamic loads analysis of shuttle thermal protection system
[NASA-TP-2255] 10 p1439 N84-19393
ALEXANDRE, A.
Integration of mathematical models: Experience of first Spacelab mission 10 p1444 N84-19431
ALEXANDROPOULOS, P.
A user's manual for Electromagnetic Surface Patch (ESP) code. Version 2: Polygonal plates and wires
[AD-A135837] 09 p1300 N84-18497
ALEXANDROV, A.
Landmarks of progress 13 p2065 N84-23397
ALEXIADES, V.
Modeling binary-alloy solidification processes: Numerical implementation
[DE84-001587] 04 p0501 N84-13284
Modeling binary alloy solidification processes
[ORNL/CSD-117] 16 p2464 N84-25790
ALEXOPOULOS, N. G.
Criteria for nearly omnidirectional radiation patterns for printed antennas
[AD-A143662] 23 p3731 N84-33646
On the modeling of electromagnetically coupled microstrip antennas: The printed strip dipole
[AD-A143927] 23 p3731 N84-33651
ALEXOVICH, R. E.
Characteristics and capacities of the NASA Lewis Research Center high precision 6.7- by 6.7-m planar near-field scanner
[NASA-TM-83785] 22 p3598 N84-32789
ALFANO, A. J.
In vitro chlorophyll photosynthetic reaction
[PB84-104892] 08 p1198 N84-17810
ALFANO, J. A.
The silicon AIDS (Airborne Integrated Data Systems)
17 p2587 N84-26583
ALFANO, R. R.
Semiconductors investigated by time resolved raman absorption and photoluminescence spectroscopy using femtosecond and picosecond laser techniques
[AD-A131880] 03 p0379 N84-12468
Space environment effects (M0006)
15 p2279 N84-24690
Semiconductors investigated by time resolved Raman absorption and photoluminescence spectroscopy using femtosecond and picosecond laser techniques
[AD-A141381] 19 p3029 N84-29209
ALFELD, P.
A bivariate C-2 Clough-Tocher scheme
[AD-A137930] 11 p1715 N84-21183
Multivariate perpendicular interpolation
[AD-A139254] 14 p2212 N84-24284
Triangular extrapolation
[AD-A144660] 24 p3952 N84-35025
Multivariate scattered data derivative generation by functional minimization
[AD-A144663] 24 p3952 N84-35028
ALFERDINCK, J. W. A. M.
Visual obscuration by smoke screens: Results of the Oldebroek 2 trials, May 1981 Part 1: Theory, methods and photometric analysis
[IZF-1984-10] 19 p3105 N84-29730
ALFEROV, G. N.
Experiments in development of powerful dye laser
21 p3466 N84-32095
ALFEROV, Z. I.
New phase transition in Si and GaAs exposed to picosecond laser pulses 20 p3266 N84-30866
Pravda cites advantages of project for orbiting solar reflectors 21 p3347 N84-31235
ALFEYEV, V. N.
Dependence of properties of Josephson junctions at semiconductor surface on parameters of subsurface layer 18 p2825 N84-27936
ALFORD-STEVENS, A.
Compliance monitoring of purgeable organics with mass spectrometry
[PB84-157916] 14 p2124 N84-23733
ALFORD, S.
A common 1553B I/O channel for the F-16
[AD-P003546] 21 p3333 N84-31150
ALFORD, W. L.
Radiometric accuracy assessment of LANDSAT-4 Multispectral Scanner (MSS) data
20 p3211 N84-30401
Geometric accuracy assessment of LANDSAT-4 Multispectral Scanner (MSS) 20 p3212 N84-30407
ALFREY, A.
Nd-3+ Beta prime prime alumina platelet laser
[AD-A142797] 21 p3409 N84-31621
ALFRIEND, K. T.
Satellite orbit theories based on the elimination of the parallax 19 p3118 N84-29619
ALFVEN, H.
Solar system history as recorded in the Saturnian ring structure
[NASA-CR-174477] 02 p0307 N84-12013
Space research and cosmic plasma physics
[TRITA-EPP-83-06] 12 p1922 N84-22520
Magnetospheric research and the history of the solar system
[TRITA-EPP-84-04] 18 p2952 N84-28713
Cosmogony as an extrapolation of magnetospheric research
[NASA-CR-173440] 18 p2953 N84-28720
ALGER, D.
Overview of advanced Stirling and gas turbine engine development programs and implications for solar thermal electrical applications 18 p2872 N84-28231
ALGER, T. W.
Laser window with annular grooves for thermal isolation
[DE84-011114] 21 p3410 N84-31625
ALHOMOUD, A. A. R.
Heat transfer from a circular cylinder due to a slot jet impingement 23 p3746 N84-33747
ALI, A. W.
On the CO2 laser generated channel conductivity and electron beam ionization of ammonia
[AD-A131591] 02 p0225 N84-11478
On laser air breakdown, threshold power and laser generated channel length
[AD-A133211] 06 p0849 N84-15538
Spectroscopic measurements of the Laser-HANE plasma
[AD-A138685] 13 p1995 N84-22947
The electron density and temperature in the photoionized background gas (N2) surrounding a laser produced plasma
[AD-A138651] 13 p2044 N84-23266
Vibrational energy relaxation and dissociation in N2
[AD-A143606] 23 p3827 N84-34276
ALI, J. S.
Radiofrequency radiation exposure for bio-effects research at the Health Effects Research Laboratory, Research Triangle Park, North Carolina
[PB83-229591] 01 p0115 N84-10747
ALI, M. M.
Integrated analysis and design for multi-level performance criteria 15 p2314 N84-24685
ALIAGA, D.
Cracking threshold on steel used in aeronautical construction: Influence of the environment
[SNIAS-832-551-101] 16 p2465 N84-25797
ALINHAC, S.
Uniqueness in the Cauchy problem for second order operators with real symbols 22 p3636 N84-33045
ALISOVA, S. P.
Electrochemical behavior of amorphous titanium-based alloy after various annealing conditions
24 p3875 N84-34555

ALITTI, B.
The performance of 16000 wire mini-drift MWPC system 06 p0912 N84-15922
ALIYEVSKIY, B. L.
Scientific-Technical Conference on Acyclic Electric Machines
[AD-A131880] 03 p0366 N84-12381
Unipolar electric machines with liquid-metal current pickup
[AD-A139778] 16 p2484 N84-25932
ALKASAB, K. A.
Manual of phosphoric acid fuel cell power plant cost model and computer program
[NASA-CR-174720] 23 p3790 N84-34037
ALKIRE, K.
An analysis of rotor blade twist variables associated with different Euler sequences and pretwist treatments
[NASA-TM-84394] 17 p2606 N84-26693
ALLAGNON, B.
Orbital propulsion module system configuration study. Volume 1: Executive summary
[S/DT/YA-25-030-VOL-1] 08 p1120 N84-17282
ALLAIRE, P. E.
Lateral forces on pump impellers: A literature review 10 p1507 N84-19863
Literature review of tilting pad and turbulent hydrostatic journal bearings for nuclear main coolant pumps 21 p3418 N84-31680
ALLAN, J. R.
Thermal control problems in military helicopters 16 p2537 N84-26286
ALLAN, S.
SISAL: Streams and Iteration in a Single-Assignment Language. Language reference manual, version 1.1
[DE83-016576] 04 p0582 N84-13843
ALLARD, A.
Industrial applications for plasma torches
[SNIAS-832-430-101] 15 p2305 N84-24829
ALLBRITAIN, R. H.
Shuttle orbiter main propulsion system hardware development and certification for flight 20 p3135 N84-29907
ALLCOCK, H. R.
A new approach to polymer chemistry: Organometallic and bioactive phosphazenes
[AD-A135429] 08 p1137 N84-17396
Cyclic and high polymeric phosphazenes as carrier molecules for carboranyl, metallo, or bioactive side groups
[AD-A135656] 09 p1288 N84-18407
Carboranylmethylene-substituted phosphazenes and polymers thereof
[NASA-CASE-ARC-11370-1] 13 p1962 N84-22750
ALLEGRE, J.
Investigation of free jets issued from small solid propellant rocket engines 08 p1121 N84-17290
ALLEN, A. J.
A study of ultrafine porosity in hydrated cements using small angle neutron scattering
[AERE-R-10954] 18 p2820 N84-27907
ALLEN, B.
Geophysical data from drifting ice stations FRAM 4 and TRISTEN
[AD-A133370] 06 p0866 N84-15640
ALLEN, B. P.
ISIS: A constraint-directed reasoning approach to job shop scheduling
[AD-A133296] 06 p0933 N84-16063
ALLEN, B. W.
Remote-ended time domain bandwidth measurements on installed regenerator sections of multimode optical fibre cable in the British Telecom Network 11 p1727 N84-21267
ALLEN, C. M.
Implicit numerical solution for a normal shock
[AD-A135855] 09 p1314 N84-18590
ALLEN, C. T.
Modeling the polarization dependence of the attenuation in vegetation canopies 23 p3767 N84-33676
ALLEN, C. W.
Organophosphazenes: 17: The synthesis of trimethylsilylacetylene and terminal acetylene derivatives of hexfluorocyclotriphosphazene
[AD-A141429] 19 p2983 N84-28906
ALLEN, D.
Research on composite materials for structural design
[AD-A134059] 05 p0645 N84-14242
ALLEN, D. B.
A new engineering approach for cable in fire situations using halogenated polymers 11 p1726 N84-21259
ALLEN, D. H.
Balloon materials degradation (S1006) 15 p2273 N84-24646
ALLEN, D. K.
Manufacturing information system
[AD-A137891] 11 p1641 N84-20730
ALLEN, D. R.
A Fourier transform technique which measures phase delays between ultrasonic impulses with sufficient accuracy for the determination of residual stresses in metals
[AERE-R-1093] 01 p0047 N84-10306
The measurement of residual stress in textured steel using an ultrasonic velocity combination technique
[AERE-R-11115] 18 p2854 N84-28123
The influence of stress on the principal polarisation directions of ultrasonic shear waves in textured steel plates
[AERE-R-11078] 18 p2854 N84-28124
ALLEN, E. M.
Corrosion control through a better understanding of the metallic substrate/organic coating/interface
[AD-A139086] 13 p1961 N84-22739
ALLEN, F. G.
Silicon millimeter wave devices by MBE (Molecular Beam Epitaxy)
[AD-A134419] 07 p1080 N84-17025
ALLEN, G. L.
Assessment of learning abilities using rate measures
[AD-P003340] 18 p2911 N84-28463
ALLEN, G. R.
Thomson-scattering measurements of electron temperature and density in a plasma channel created by a relativistic electron beam
[DE84-000356] 04 p0597 N84-13940
ALLEN, H. C.
Thixotropic flame inhibitors for rocket propellant grains
[AD-D011081] 21 p3373 N84-31408
ALLEN, H., JR.
Detroit space odessey
[NASA-TM-85487] 06 p0792 N84-15164
Chicago Meets Outer Space program
[NASA-TM-85492] 06 p0927 N84-16021
ALLEN, J.
Project objectives and progress at the Research Laboratory of Electronics
[RLE-125] 06 p0926 N84-16016
Basic and applied research in the field of electronics and communications
[AD-A135283] 08 p1150 N84-17487
Research Laboratory of Electronics
[AD-A135319] 08 p1150 N84-17488
RLE (Research Laboratory of Electronics)
[AD-A134812] 08 p1151 N84-17495
RLE Progress Report no. 126
[RLE-PR-126] 22 p3681 N84-33336
Speech communication 22 p3684 N84-33358
Custom integrated circuits 22 p3684 N84-33361
ALLEN, J. B.
Wind tunnel tests of high-lift systems for advanced transports using high-aspect-ratio supercritical wings
[NASA-CR-3523] 19 p2957 N84-28742
ALLEN, J. H.
Solar-geophysical data center number 467, July 1983, part 1 (prompt reports). Data for June 1983, May 1983 and late data
[PB84-100486] 08 p1246 N84-18144
Solar-geophysical data number 467, July 1983, part 2 (comprehensive reports). Data for January 1983, November 1980 and miscellanea
[PB84-100494] 08 p1246 N84-18145
Solar-geophysical data number 468, August 1983. Part 1. (Prompt reports). Data for July 1983, June 1983 and late data
[PB84-116573] 09 p1417 N84-19270
Solar-geophysical data number 468, August 1983. Part 2. (Comprehensive reports). Data for February 1983 and miscellanea
[PB84-116581] 09 p1417 N84-19271
ALLEN, J. L.
Gravity enhanced acoustic levitation method and apparatus
[NASA-CASE-NPO-16147-1] 07 p1070 N84-16949
ALLEN, J. L., JR.
Deployable beam flight experiment (MAST) 08 p1110 N84-17218
ALLEN, K. C.
Estimates of millimeter wave attenuation for 18 United States cities
[PB83-240630] 02 p0211 N84-11381
Urban millimeter wave propagation studies
[AD-A134465] 07 p0993 N84-16439
Attenuation of millimeter waves on Earth-space paths by rain clouds
[PB84-115120] 08 p1148 N84-17471
A diagnostic probe to investigate propagation at millimeter wavelengths
[PB84-104223] 08 p1148 N84-17473
ALLEN, L. H.
Superconducting niobium thin film slow-wave structures 04 p0518 N84-13405
ALLEN, L. H., JR.
Use of thermal inertia determined by HCMM to predict nocturnal cold prone areas in Florida
[E84-10005] 02 p0235 N84-11546
Aircraft remote sensing of soil moisture and hydrologic parameters, Taylor Creek, Florida, and Little River, Georgia, 1979 data report
[E84-10010] 02 p0236 N84-11548
ALLEN, M. A.
Damping ring rf system for SIC
[DE83-011853] 01 p0143 N84-10938
ALLEN, M. M.
Manufacturing developments to reduce strategic materials usage 23 p3703 N84-33475
ALLEN, P.
The transition from an Archean granite-greenstone terrain into a charnockite terrain in southern India 11 p1678 N84-20952
ALLEN, P. D.
An introduction to geometric programming
[AD-P002962] 14 p2200 N84-24202
ALLEN, R. D.
Relationship of regional water quality to aquifer thermal energy storage
[DE84-006649] 14 p2169 N84-23992
Seasonal thermal energy storage
[DE84-013854] 23 p3791 N84-34042
ALLEN, R. F.
Large firm efficiency, concentration, and profitability in defense markets
[AD-P002810] 13 p2059 N84-23356
ALLEN, R. J.
Programming for energy monitoring/display system in multicolor lidar system research
[NASA-CR-165875] 19 p3073 N84-29498
ALLEN, R. L., JR.
Tropical cyclone report, January - December 1983
[AD-A137836] 11 p1687 N84-21000
ALLEN, R. M.
Acoustic wave propagation through shear layer of the German-Dutch open jet wind tunnel (DNW)
[NLR-MP-83003-U] 12 p1901 N84-22379
ALLEN, S. D.
Laser chemical vapor deposition
[AD-A137827] 11 p1663 N84-20850
ALLEN, S. L.
TMX-U experimental results
[DE83-016790] 03 p0449 N84-12955
Impurity characteristics of TMX-U
[DE84-012413] 20 p3297 N84-30932
Earth orientation effects on mobile VLBI baselines 22 p3575 N84-32642
ALLENBY, R. J.
Andean tectonics: Implications for Satellite Geodesy
[NASA-TM-86160] 24 p3919 N84-34809
ALLENDER, D. W.
Metastable superconducting pairs with large momentum
[AD-A136246] 09 p1385 N84-19045
ALLES, W.
An integrated AFCS for the "PROFILE"-mode 03 p0317 N84-12069
ALLEY, R. E.
Evaluation of thermal data for geologic applications
[NASA-CR-173211] 07 p1033 N84-16703
ALLIN, A. P.
Control computer and automation subsystem equipment in Delfin Facility 20 p3289 N84-30880
ALLISON, D. W.
Cost/risk analysis for disk retirement, volume 1
[AD-A141978] 20 p3131 N84-29881
ALLISON, J. E.
The effects of deformation mode and microstructure fracture-related properties of Ti alloys
[AD-A142891] 21 p3366 N84-31353
ALLISON, K.
Particle size effects on viscosity of silver pastes: A manufacturer's view 12 p1839 N84-21992
ALLISON, L. J.
Carbon in live vegetation of major world ecosystems
[DE83-015328] 01 p0101 N84-10654
Inventory of numeric data for carbon dioxide research
[DE83-017571] 03 p0406 N84-12657
Guide to the bibliographic format used by the Carbon Dioxide Information Center
[DE84-004109] 09 p1280 N84-18361
ALLISON, M. L.
Ice-covered volcanic water flows on Ganymede 13 p2073 N84-23432
Interpretation of planetary stress systems: Determination of tectonic over-printing in Northwest Wyoming 13 p2090 N84-23540
ALLISON, R.
Embedded information transfer technology assessment
[AD-A142649] 21 p3391 N84-31518

ALLISON, S. W.
Use of fiber optics and laser-induced fluorescence for remote measurements of UF6 in strong rotation
[DE83-014195] 01 p0088 N84-10575
Remote thermometry of moving surfaces by laser-induced fluorescence of surface-bonded phosphor
[DE84-004264] 10 p1498 N84-19792
ALLNUTT, M. F.
Mental performance in mild oxygen deficiency
[IAM-409] 17 p2746 N84-27433
ALLRED, R. E.
Mechanical behavior of surface aminated polyaramid fabric/epoxy composites
[DE84-006230] 14 p2120 N84-23708
ALLSUP, J. R.
Vehicle-emission characteristics using mechanically emulsified alcohol/diesel fuels
[DE83-016012] 03 p0406 N84-12656
Emissions and efficiency of agricultural diesels using low-proof ethanol as supplement fuel
[DE84-003931] 09 p1325 N84-18659
ALLTON, G.
Registration of a LANDSAT image to DTM (Digital Terrain Matrix): An error analysis
[AD-A141766] 19 p3041 N84-29297
ALMASI, M. N.
Holocene sediments and evolution of the Indian River (Atlantic coast of Florida) 21 p3426 N84-31730
ALMEIDA, S. P.
A comparison of optical versus hardware fourier transforms
[AD-A136223] 09 p1373 N84-18963
ALMEIDAFILHO, R.
Multiseasonal and geobotanical approach in remote detection of greisenization areas in the Serra da Pedra Branca Granite, Goias State, Brazil
[E84-10070] 07 p1020 N84-16617
Utilization of digital LANDSAT imagery for the study of granitoid bodies in Rondonia: Case example of the Pedra Branca massif
[E84-10120] 14 p2167 N84-23979
Multiseasonal variables in digital image enhancements for geological applications
[E84-10145] 16 p2508 N84-26093
ALMGREN, D. W.
An assessment of the benefits of using infrared thermography to measure the temperature of discrete electronic components operating in a vacuum
[AD-A134350] 07 p0997 N84-16465
ALMOND, A. J.
Note on the structural failure of Handley page 88 (E6/48) VX.330
[RAE-STRUCT-ACC-245] 17 p2603 N84-26678
ALMOND, E. A.
Fundamental approach to design and prediction of performance of forming tools 09 p1294 N84-18453
ALMOND, T.
Considerations pertinent to propagation prediction methods applied to airborne microwave equipment 15 p2326 N84-24970
ALMOSNINO, D.
Water-tunnel study of transition flow around circular cylinders
[NASA-TM-85879] 14 p2100 N84-23606
ALONSO, J. J. C.
Utilization of AC and DC converters in the design and use of a system of acquisition retrieval of analogic data 18 p2944 N84-28669
ALOSTAZ, M. J.
Rapid determination of upper and lower bounds to buckling loads and natural frequencies of non-uniform bars 23 p3759 N84-33827
ALPAIDZE, Z. G.
Influence of anisotropy and viscosity on propagation on waves in multilayer cylinders 12 p1788 N84-21660
Analysis of unsteady processes caused by nonaxisymmetrical loading of finite multilayer cylinders 12 p1788 N84-21661
ALPER, J. M.
Determination of the effect of strain rate on the mechanical properties of graphite-epoxy laminates
[AD-A136334] 09 p1276 N84-18328
ALPERIN, M.
High speed ejectors
[AD-A141562] 18 p2796 N84-27741
ALPERS, W.
On the detection of underwater bottom topography by imaging radars 17 p2718 N84-27301
ALPERSON, Z.
Case studies of NOAA 6/TIROS N data impact on numerical weather forecasts 17 p2717 N84-27294
The impact of satellite temperature soundings on the forecasts of a small national meteorological service 17 p2717 N84-27295
ALRED, J. W.
Operational update to the RCS flow field of the space shuttle orbiter 13 p1942 N84-22626
ALSHITE, V. I.
Hamiltonian for antisotropic bodies with defects
[ISSN-0208-5658] 03 p0451 N84-12966
ALSTON, J. A.
Seeds in space experiment (P0004-1) 15 p2277 N84-24675
ALT, H. W.
Compressible flows of jets and cavities
[PREPRINT-637] 17 p2669 N84-27022
ALTADONNA, L. P.
Space environment effects (M0006) 15 p2279 N84-24690
ALTAMORE, A.
A new outburst of Z Andromedae 24 p3979 N84-35209
ALTAN, T.
Feasibility of using a large press (80,000 - 200,000 tons) for manufacturing future components on Army systems
[AD-A132398] 04 p0544 N84-13582
Establishment of a Computer-Aided Design (CAD)/Computer-Aided Manufacturing (CAM) process for the production of cold forged gears
[AD-A141018] 18 p2921 N84-28522
ALTENBACH, T. J.
Data analysis of the LLNL hydrogen igniter experiments
[DE83-010260] 01 p0037 N84-10236
ALTENKIRCH, D.
Flight mechanical analysis of dynamic derivatives of the Dornier variation wind tunnel model
[DFVLR-FM-83-38] 15 p2255 N84-24541
ALTER, W. S.
High-pressure hydrogen testing of single crystal superalloys for advanced rocket engine turbopump turbine blades
[NASA-TM-86464] 23 p3717 N84-33563
ALTES, J.
Investigation of the earthquake behavior of the research reactor FRJ-2 (DIDO)
[JUEL-SPEZ-222] 12 p1848 N84-22047
ALTHOUSE, E. L.
Linearization of an analog fiber-optic system using the quasi-feedforward technique
[AD-A137529] 11 p1731 N84-21294
Analog fiber optics: Pragmatic considerations beyond the textbook
[AD-A137526] 12 p1908 N84-22430
ALTHOUSE, L. P.
Bound and free moisture in explosives and plastics
[DE84-001402] 04 p0509 N84-13339
ALTMAN, F.
UHF radiowave propagation through forests
[AD-A130399] 01 p0062 N84-10408
ALTMANN, H.
Poly (ADP-ribose) in nucleoids
[OEFZS-4267] 18 p2900 N84-28399
ALTMAYER, E.
Computer program for studying turbulent convection in buildings 16 p2517 N84-26155
ALTOBELLI, M. R.
An approach to attitude control maneuvers which helps maintain orbit inclination 15 p2268 N84-24618
ALTON, B. M.
Status of solar measurements and data reduction for ERB-Nimbus 7 17 p2778 N84-27637
ALTON, G. D.
Studies of compound states of atomic negative ions using laser beams
[AD-A144653] 24 p3962 N84-35091
ALTONJI, E.
Control methodologies for large space structures
[NASA-CR-173987] 24 p3861 N84-34467
ALTROCK, R. C.
Coronal transients in FE XIV 5303A: First two-dimensional photoelectric ground-based observations 03 p0466 N84-13072
ALTSCHUL, R. E.
Review and verification of CARE 3 mathematical model and code
[NASA-CR-166096] 12 p1876 N84-22227
ALTSEIMER, J. H.
Assessment of fuel cell propulsion systems
[DE84-006323] 15 p2420 N84-25536
ALTSHULER, E. E.
The effect of a low-altitude nuclear burst on millimeter wave propagation 15 p2323 N84-24947
ALTSHULLER, A. P.
Assessment of ozone as a surrogate for other products of atmospheric photochemical reactions
[PB84-155852] 14 p2177 N84-24042
ALTUS, E.
Durability of structural adhesively bonded systems
[AD-A140714] 17 p2626 N84-26805
ALUMBAUGH, R. L.
Preliminary guidelines for maintenance of polyurethane foam (PUF) roofing systems
[AD-A143458] 22 p3560 N84-32543
ALVARADO, R. C., JR.
Programming for energy monitoring/display system in multicolor lidar system research
[NASA-CR-165875] 19 p3073 N84-29498
ALVARES, N. J.
Contrast between natural and experimentally controlled fires in forced ventilated enclosures
[DE83-013038] 01 p0057 N84-10373
Definition of the concentration gradient above flammable liquids
[DE84-006296] 20 p3149 N84-29996
ALVAREZ-QUINONES, A. C.
Coating of self-catalytic nickel on aluminum and aluminum alloys
[AD-A140697] 17 p2623 N84-26791
ALVAREZ-ROA, E. R.
Luminescence titrations of polyelectrolytes
[AD-A140823] 17 p2619 N84-26763
ALVAREZ, L. M.
Urban and local source effects on precipitation chemistry
[DE84-011848] 21 p3436 N84-31803
ALVAREZ, R. A.
Intense positron beams: Linacs; preworkshop copy
[DE83-012941] 01 p0146 N84-10958
Generation of monoenergetic positrons
[DE83-015535] 03 p0440 N84-12887
Air-breakdown limits for microwave-pulse propagation. Part 1. Experiments
[DE83-017832] 04 p0523 N84-13438
Dynamic characteristic of intense short microwave propagation in an atmosphere
[DE84-002788] 21 p3387 N84-31496
Development of accelerated fuel-engine qualification procedures
[AD-A143845] 23 p3893 N84-33406
ALVES, A. S.
Approach to equilibrium of a relativistic gas 17 p2669 N84-27018
ALVES, J. R.
Temperature oscillations and ozone correlations in the lower stratosphere of Natal (6 deg S)
[INPE-3116-PRE/512] 21 p3443 N84-31844
ALVORD, D.
Escape and rescue model 04 p0512 N84-13361
ALYEA, F. N.
A three-dimensional dynamical-chemical model of the mesosphere and lower thermosphere for upper atmospheric research
[AD-A142200] 19 p3054 N84-29379
ALYEV, G. A.
Separation flow of transsonic water stream past circular cone 17 p2647 N84-26929
AMAGISHI, Y.
Formation of spatial Alfven resonance and global modes in an inhomogeneous plasma
[IPPJ-674] 20 p3302 N84-30966
AMALBERTI, R.
Visual perception in systems management in aeronautics 22 p3632 N84-33017
AMALRIC, C.
Commentary on Philips R and D strategy, policies, major efforts 24 p3892 N84-34647
AMAMIYA, S.
Electron capture cross sections in high energy He2+ + neutral Li collisions
[IPPJ-679] 21 p3500 N84-32182
AMANKWA, L.
Voltammetric studies of Zomepirac sodium and its determination in tablets by differential-pulse polarography
[AD-A136982] 10 p1455 N84-19499
AMANO, R. S.
Numerical study of a separating and reattaching flow by using Reynolds-stress tubulence closure
[NASA-CR-166547] 08 p1097 N84-17133
AMANO, T.
Impurity transport in Tokamaks 11 p1734 N84-21312
AMANO, Y.
Design and characteristics of radiating pair cable 11 p1720 N84-21217
AMATA, E.
A comparison between GEOS 1 magnetic field measurements and some models of the geomagnetic field
[IFSI-82-5] 03 p0409 N84-12675
The programs used to compare the predictions of some geomagnetic models with the measurements from the experiment S-331 onboard the GEOS-1 satellite
[IFSI-82-2] 05 p0705 N84-14627

The DC electric field in space: Direct measurements and inferences from cold plasma drifts
08 p1117 N84-17264

Low energy (130 eV) oxygen ions at the geosynchronous orbit during the CDAW-6 event of March 22, 1979
[IFSI-83-17] 18 p2881 N84-28291

Simultaneous observations of PC3 pulsations in the magnetosphere and on the ground: Control by the solar wind
[IFSI-83-14] 18 p2953 N84-28717

AMAZEEN, C. A.
Robotic technology applied to Army mobility systems
[AD-A134728] 08 p1216 N84-17933

AMBALAL, P. K.
Quality-assurance tests of five Y-12 Keviar-49 spools used to fabricate strands and reliability specimens for stress-rupture tests
[DE84-012373] 21 p3357 N84-31295

AMBERG, L.
Final results of Doppler point positioning at several timekeeping laboratories in Europe
19 p3039 N84-29282

AMBERGEN, A. W.
Interval estimates for posterior probabilities in a multivariate normal classification model
[MC-SW-96/83] 19 p3094 N84-29650

AMBRAZEVICIUS, A. B.
The effect of pressure on complex heat exchange in a channel with an electric arc
[BLL-OA-TRANS-3080-(6196.3)]
09 p1311 N84-16569

AMBROSE, K. R.
Nuclear-medicine
[DE84-000346] 04 p0571 N84-13759

AMBROSIANO, J. J.
Particle acceleration by turbulent magnetohydro-dynamic reconnection
[NASA-TM-86121] 16 p2558 N84-26409

AMBROSINI, R.
Transhorizon microwave propagation measurements related to surface meteorological parameters
15 p2325 N84-24964

AMBROSINO, J. R.
Penetrant and magnetic-particle inspection for material integrity
[DE83-017830] 04 p0546 N84-13600

AMBROSIUS, B. A. C.
Precise orbit determination for ERS-1
[ESA-CR(P)-1842] 12 p1776 N84-21591

Analysis of POPSAT gravity model errors
[ESA-CR(P)-1883] 17 p2615 N84-26737

AMBRUSO, R.
Solid carbon oxidation and radiation in exhaust plumes
13 p1941 N84-22623

AMELING, W. H.
Integral green's function solutions to differential equations
[AD-A138077] 12 p1894 N84-22335

AMELKINA, G. V.
Effect of sydnocarb on hemodynamics and redistribution of blood during functional tests following six-hour antiorthostatic hypokinesia 07 p1045 N84-16777

AMELL, J.
The historical development and basis of human factors guidelines for automated systems in aeronautical operations
[NASA-CR-166560] 10 p1552 N84-20174

AMER, A.
Polymerization of 3-methyl-2,5-Dibromothiophene utilizing n-butyl lithium and Copper(II) chloride
[AD-A136955] 10 p1468 N84-19585

AMER, N. M.
Photothermal displacement spectroscopy of surfaces and thin films
[DE83-015957] 03 p0350 N84-12279

Novel method for the study of optical properties of surfaces
[DE83-012899] 03 p0441 N84-12895

Optical properties and correlation energy of defects in a-Ge:H
[DE83-016697] 03 p0455 N84-12903

Effects of compensation on light-induced metastable defects in aSi:H
[DE83-016696] 04 p0558 N84-13680

New approaches to photothermal spectroscopy
[DE84-009237] 21 p3359 N84-31310

AMER, S.
Applications of solvent extraction in hydrometallurgy
[BLL-OA-TRANS-3162-(6196.3)]
08 p1128 N84-17334

AMES, K. A.
Analysis of the Von Karman equations by group methods
[AD-P002948] 14 p2198 N84-24188

AMES, K. R.
XSECT: A computer code for generating fuselage cross sections - user's manual
[NASA-TM-83218] 18 p2788 N84-27696

AMES, W. F.
Linear or nonlinear wave problems with input sets
[AD-A137811] 11 p1714 N84-21177

Analysis of the Von Karman equations by group methods
[AD-P002948] 14 p2198 N84-24188

AMICK, G. S.
The aircraft infrared measurements guide
[AD-A132598] 05 p0747 N84-14905

AMIDIEU, M.
Preliminary tests on the u-shaped heat pipes of TV-SAT/TDF-1 10 p1440 N84-19403

AMIET, R. K.
Rotor-vortex interaction noise
[NASA-CR-3744] 01 p0139 N84-10912

AMIEUX, J. C.
Multifunction spacecraft attitude estimation and navigation system 15 p2267 N84-24611

AMIMOTO, S. T.
Pulsed D2-F2 chain-laser damage to coated window and mirror components
[AD-A138911] 13 p1995 N84-22950

AMIN, M.
An algorithm to compute the geoid surface
[IOS-168] 18 p2881 N84-28290

AMINI, M. H.
Geochronology, paleomagnetism and petrology of the Upper Cenozoic Bruneau Formation in the Western Snake River Plain, Idaho 21 p3440 N84-31826

AMIRKABIRIAN, I.
Parabolized Navier-Stokes solutions for hypersonicflow fields 23 p3688 N84-33373

AMIRKHANOVA, N. A.
Anodic dissolution of transition metal carbides at high current density 24 p3877 N84-34566

AMIRKHANYAN, Y. A.
Structural distinctions of thyroid C cells and parathyroid glands of primates during head-down hypokinesia
15 p2377 N84-25263

AMIS, M. L.
Investigation of TM band-to-band registration using the JSC registration processor 20 p3211 N84-30396

AMITAY, N.
Multipath outage performance of digital radio receivers using finite-tap adaptive equalizers
15 p2324 N84-24955

AMMERMAN, H.
En route/terminal ATC (Air Traffic Control) operations concept
[AD-A138991] 13 p1929 N84-22550

AMODEO, F. A.
Solution and sensitivity analysis of RESDYN model 1a using SENSUMT
[AD-A142786] 21 p3515 N84-32267

AMORETTI, R.
Non-invasive methods of cardiovascular exploration in aerospace medicine
[AGARD-AG-277(E)] 11 p1699 N84-21082

Contribution of cardiac mechanograms in the expert examination of flying personnel
11 p1700 N84-21089

AMOS, D. E.
Computation of Bessel functions of complex argument
[DE83-013528] 01 p0134 N84-10881

Computation of Bessel functions of complex argument and large order
[DE83-014463] 02 p0282 N84-11851

AMRHEIN, W.
Central heat pump units: Problems of heat output control
[BMFT-FB-T-83-159] 05 p0681 N84-14480

AMUNDSON, D.
The silicon AIDS (Airborne Integrated Data Systems)
17 p2587 N84-26583

AN, C. Y.
Determination of composition profile for isomorphic binary alloys
[INPE-2813-RPE/438] 02 p0193 N84-11251

Single Pb (1-x)Sn(x) Te crystal growth by vapor phase transport, with formation of a liquid/solid interface
[INPE-2811-PRE/369] 03 p0451 N84-12967

AN, Z. G.
Theory of anomalous tearing mode growth and the major Tokamak disruption
[DE84-005383] 12 p1911 N84-22448

Nonlinear interaction of tearing modes: A comparison between the Tokamak and the reversed field pinch configurations
[DE84-010582] 18 p2934 N84-28606

ANAND, S. C.
Finite element model to compute stresses in composite masonry due to creep, shrinkage and temperature
[PB84-152578] 14 p2159 N84-23933

ANAND, V. R.
Study of an asymptotic method for helicopter rotor blade aerodynamic loads 03 p0327 N84-12135

ANAND, Y.
Development of innovative millimeter-wave broadband mixers
[AD-A136134] 09 p1310 N84-18562

ANANTATMULA, R. P.
Hydrogen trapping by yttrium in low-temperature lithium
[DE83-012721] 02 p0194 N84-11263

ANANTHAKRISHNAN, S.
Dynamics and control of flexible orbiting systems
14 p2245 N84-24481

The dynamics and control of large flexible space structures, part 7
[NASA-CR-173781] 19 p2981 N84-28892

ANANYEV, A. S.
Synthesis of frequency spectra based on use of multilevel pulse sequences 17 p2634 N84-26848

ANASHKIN, O. D.
Effect of sydnocarb on hemodynamics and redistribution of blood during functional tests following six-hour antiorthostatic hypokinesia 07 p1045 N84-16777

Effect of dihydroergotamine on human circulation during orthostatic tests 20 p3253 N84-30646

ANASHKIN, O. P.
Concerning the possibility of employing superconducting systems for analyzing the composition of cosmic rays
[AD-A133792] 05 p0765 N84-15021

ANASTASIA, C. M.
Raman scattering temperature measurements for water vapor in nonequilibrium dispersed two-phase flow
[DE83-900107] 01 p0080 N84-10522

ANCE, C.
Optical properties of amorphous silicon: Some problem areas
[DE84-701201] 24 p3964 N84-35102

ANCENAY, H.
Bonding prospectives in Japan
[CETIM-100-14-0] 21 p3372 N84-31397

Creep of six glues
[CETIM-1.3N.16.2] 21 p3372 N84-31398

Nondestructive testing of bonding by ultrasonic analysis: Preliminary study report proposed investigation program
[CETIM-13-V-010] 21 p3416 N84-31660

ANCHISKHIN, A.
Scientific, technical cooperation among CEMA member-countries urged 01 p0157 N84-11036

ANCILLOTTI, R.
The influence of sensor and thruster imperfections on the attitude and position of a spacecraft performing a rendezvous 15 p2267 N84-24615

ANCKER, C. J., JR.
The 2-on-1 stochastic duel
[AD-A143679] 23 p3820 N84-34224

ANDEEN, C. G.
Dielectric relaxation in poly(ethylene oxide) complexed with alkali metal perchlorates
[AD-A134464] 07 p0970 N84-16284

Ion conduction poly(vinyl acetate)
[AD-A142249] 19 p3096 N84-29660

Electrical and differential scanning calorimetry studies of poly(ethylene oxide) complexed with alkaline earth thiocyanates
[AD-A143198] 22 p3546 N84-32449

Association and bound motion in alkali metal doped cadmium fluoride
[AD-A143200] 22 p3546 N84-32450

Electrically conducting poly(vinyl acetate)
[AD-A143199] 22 p3559 N84-32538

Anomalous pressure dependence of dipolar relaxation times in rare earth doped lead fluoride
[AD-A143201] 22 p3662 N84-33215

ANDELMAN, D.
Phase transitions in chemisorbed systems
22 p3682 N84-33342

ANDERS, G.
Unsteady aerodynamics of moving control surfaces at the Airbus wing
[BMFT-FB-W-84-001] 19 p2968 N84-28811

ANDERS, K. P.
Field evaluation of proposed ICAO annex 16 takeoff noise certification procedure for propeller-driven airplanes not exceeding 5700 kg
[DFVLR-FB-83-34] 12 p1901 N84-22378

ANDERSEN, C. M.
Mixed models and recugion techniques for large-rotation, nonlinear analysis of shells of revolution with application to tires
[NASA-TP-2343] 24 p3912 N84-34773

ANDERSEN, H.
Attention, performance, and sustained activation in military air traffic controllers 11 p1698 N84-21076
ANDERSEN, T. S.
Recent advances in variable speed electrical generator systems for large wind turbines
[DE84-001833] 06 p0830 N84-15404
ANDERSON, A. B.
LARC: Computer codes for Lagrangian analysis of stress-guage data to obtain decomposition rates through correlation to thermodynamic variables
[DE84-002404] 06 p0813 N84-15292
ANDERSON, A. J.
Evolution of integrated panel structural design and interfaces for PV power plants 22 p3584 N84-32701
ANDERSON, A. J. W.
Reliability in space: Program manager and user awareness
[AD-P002148] 14 p2137 N84-23813
ANDERSON, A. P.
Audio signal management techniques
[AD-A130391] 01 p0062 N84-10410
ANDERSON, B.
Diffraction of waves by bed boundaries in an open borehole 23 p3776 N84-33939
ANDERSON, B. H.
Three-dimensional viscous design methodology for advanced technology aircraft supersonic inlet systems
[NASA-TM-83558] 04 p0485 N84-13190
Emacs primer
[DE84-005482] 11 p1710 N84-21144
ANDERSON, B. J.
Space shuttle exhaust cloud properties
[NASA-TP-2258] 05 p0702 N84-14606
ANDERSON, C. A.
Creep and thermal effects in aging solids
[DE83-012673] 01 p0098 N84-10635
ANDERSON, C. E.
Copper vapor laser scale demonstration
[AD-A133327] 06 p0850 N84-15543
ANDERSON, C. E., JR.
Intumescent reaction mechanisms: An analytic model
[AD-A132586] 04 p0491 N84-13225
ANDERSON, C. M.
An improved logarithmic amplifier circuit for PDS microdensitometers 18 p2841 N84-28034
The VAX/VMS device driver and user operation program for the Midwestern Astronomical Data Reduction and Analysis Facility PDS microdensitometer 18 p2841 N84-28036
ANDERSON, C. W.
Energy management for crew escape systems 20 p3141 N84-29945
ANDERSON, D.
Control and operation cost optimization of the HISS cryogenic system
[DE83-017741] 04 p0515 N84-13384
ANDERSON, D. E.
Turbulent exchange of carbon dioxide, water vapor, heat and momentum over crop surfaces 10 p1538 N84-20079
ANDERSON, D. L.
Lateral heterogeneity and azimuthal anistropy of the upper mantle: Love and Rayleigh waves 100-250 sec
[NASA-CR-174619] 06 p0878 N84-15710
Surface wave tomography
[NASA-CR-175373] 08 p1186 N84-17728
Anisotropic models of the upper mantle
[NASA-CR-173549] 16 p2521 N84-26182
Seismic tomography of the Earth's interior 18 p2879 N84-28278
ANDERSON, D. N.
Combustor flame flashback 11 p1614 N84-20561
Global maps of foF2 derived from observations and theoretical values
[PB84-163906] 15 p2369 N84-25215
ANDERSON, E. A.
FEED (Field exploitation of Elevation Data) software documentation
[AD-A137977] 12 p1879 N84-22246
ANDERSON, E. C.
Aerodynamic design of the contoured wind-tunnel liner for the NASA supercritical, laminar-flow-control, swept-wing experiment
[NASA-TP-2335] 23 p3688 N84-33377
ANDERSON, E. H.
Submicron structures technology and research 22 p3683 N84-33353
ANDERSON, E. R.
Design analysis of advanced photovoltaic technologies
[DE84-000008] 04 p0557 N84-13675
ANDERSON, E. W.
Factors affecting the supply of strategic raw materials with particular reference to the aerospace manufacturing industry 23 p3702 N84-33467
ANDERSON, G. C.
Water resources data for Utah, water year 1982
[PB84-120484] 09 p1340 N84-18756
ANDERSON, G. E.
Human exposure to atmospheric concentrations to selected chemicals, volume 1
[PB84-102540] 08 p1202 N84-17835
ANDERSON, G. L.
Effects of H2S on molten carbonate fuel cells
[DE84-010485] 20 p3234 N84-30531
ANDERSON, G. M.
Automated Q-GERT source code generation using computer aided design
[AD-A141127] 19 p3075 N84-29509
ANDERSON, G. P.
Stratospheric determination of effective photodissociation cross sections for molecular oxygen: 191-204 nm
[AD-A134168] 07 p1034 N84-16706
ANDERSON, H. R.
Suprathermal electron tail distributions in a space-simulation beam plasma discharge 05 p0638 N84-14199
Study plasma interactions in the auroral ionosphere
[NASA-CR-175352] 07 p1032 N84-16698
ANDERSON, H. U.
Characterization of high temperature electrically conducting oxides
[DE84-002887] 08 p1236 N84-18076
Reliability studies of ceramic capacitors
[AD-A136378] 09 p1287 N84-18403
Redox behavior of high temperature electrodes 11 p1741 N84-21359
ANDERSON, J. A.
Characterization of reactants, reaction mechanisms and reaction products leading to extreme acid rain and acid aerosol conditions in southern California
[PB83-252825] 04 p0561 N84-13897
ANDERSON, J. E.
Classification and area estimation of land covers in Kansas using ground-gathered and LANDSAT digital data
[E84-10068] 06 p0865 N84-15637
An initial analysis of LANDSAT 4 Thematic Mapper data for the classification of agricultural, forested wetland, and urban land covers
[E84-10073] 07 p1020 N84-16620
LANDSAT scene-to-scene registration accuracy assessment 20 p3212 N84-30405
ANDERSON, J. M.
Conference Grant for 2nd World Congress on Biomaterials
[AD-A143129] 21 p3454 N84-31915
ANDERSON, J. R.
Learning to program in LISP
[AD-A132611] 05 p0728 N84-14781
Uranium anomalies in Wyoming and parts of adjacent states. National Uranium Resource Evaluation
[DE83-005353] 06 p0866 N84-15638
ANDERSON, K. A.
The ISPM experiment for spectral, composition and anistropy measurements of charged particles at low energie 09 p1261 N84-18235
Data reduction and analysis for ISEE-A and -B energetic particles flux experiment and ISEE-C electron and X-ray experiments
[NASA-CR-175220] 11 p1760 N84-21486
ANDERSON, K. D.
Tropospheric propagation assessment 15 p2326 N84-24965
ANDERSON, K. E.
Land use and land cover digital data
[GS-CIRC-895-E] 10 p1525 N84-19987
ANDERSON, L. B.
Motor performance in irradiated rats as a function of radiation source, dose, and time since exposure
[AD-A141209] 18 p2894 N84-28363
ANDERSON, L. E.
Biological effects of electric fields: An overview
[DE84-005888] 12 p1864 N84-22144
ANDERSON, L. M.
Plasmon device design: Conversion from surface to junction plasmons with grating-couplers 19 p3047 N84-29330
ANDERSON, L. W.
Optically pumped polarized alkali atomic beams and targets
[DE84-012389] 21 p3495 N84-32147
ANDERSON, M. G.
Streamflow modelling
[AD-A141281] 18 p2866 N84-28198
ANDERSON, M. R.
Pilot study and evaluation of a SMMR-derived sea ice data base
[NASA-CR-175255] 22 p3614 N84-32896
ANDERSON, M. S.
Piston-displacement equations of state for sodium, potassium, and rubidium metals to 20 kbar from 300 K to 4 K
[DE83-018079] 03 p0347 N84-12252
Equations of state for the alkali metals, with generalizations to NaCl
[DE83-018075] 03 p0351 N84-12280
Buckling loads of stiffened panels subjected to combined longitudinal compression and shear: Results obtained with PASCO, EAL, and STAGS computer programs
[NASA-TP-2215] 07 p1015 N84-16585
ANDERSON, N. E.
An analytical method to predict efficiency of aircraft gearboxes
[NASA-TM-83718] 16 p2433 N84-25606
Efficiency of nonstandard and high contact ratio involute spur gears
[NASA-TM-83725] 19 p3031 N84-29223
ANDERSON, N. L.
Comparison of organisms and cell types using two-dimensional electrophoresis
[DE84-003574] 08 p1197 N84-17807
ANDERSON, N. P.
Development of strain tolerant thermal barrier coating systems, tasks 1 - 3
[NASA-CR-168251] 03 p0355 N84-12312
Program for development of strain tolerant thermal barrier coating system
[NASA-CR-173214] 07 p0978 N84-16337
ANDERSON, O. A.
Efficient radiation-hardened, 400- and 800-keV neutral-beam injection systems
[DE83-015691] 03 p0440 N84-12886
Design and fabrication of a surface conversion negative ion source and an 80 keV pre-accelerator
[DE84-006753] 13 p2045 N84-23269
Transverse field focused system
[DE84-011070] 20 p3298 N84-30942
ANDERSON, O. L.
Extension to an analysis of turbulent swirling compressible flow for application to axisymmetric small gas turbine ducts
[NASA-CR-165597] 11 p1753 N84-21445
ANDERSON, P. J.
Research pressure instrumentation for NASA Space Shuttle main engine, modification no. 5
[NASA-CR-171122] 21 p3404 N84-31594
Research pressure instrumentation for NASA Space Shuttle main engine, modification no. 5
[NASA-CR-173860] 21 p3405 N84-31596
Research pressure instrumentation for NASA Space Shuttle main engine, modification no. 6
[NASA-CR-171126] 22 p3597 N84-32780
Research pressure instrumentation for NASA Space Shuttle main engine, modification no. 5
[NASA-CR-171125] 22 p3597 N84-32781
Research pressure instrumentation for NASA Space Shuttle main engine, modification no. 5
[NASA-CR-171128] 22 p3622 N84-32949
Research pressure instrumentation for NASA Space Shuttle main engine
[NASA-CR-173932] 23 p3702 N84-33463
ANDERSON, R. A.
Origin of pyroelectricity in polyvinilydene fluoride
[DE83-015227] 02 p0201 N84-11311
ANDERSON, R. B.
The 1980 International Aerospace Conference on Lightning and Static Electricity
[CSIR-ELEK-249] 04 p0566 N84-13733
ANDERSON, R. D.
closed bomb combustion simulation of Hivelite solid propellant 13 p1948 N84-22667
ANDERSON, R. E.
Mobile radio alternative systems study. Volume 1: Traffic model
[NASA-CR-168062] 01 p0061 N84-10402
Mobile radio alternative systems study. Volume 2: Terrestrial
[NASA-CR-168063] 01 p0061 N84-10403
Mobile radio alternative systems study satellite/terrestrial (hybrid) systems concepts
[NASA-CR-168064] 01 p0061 N84-10404
Radiation testing of the CMOS 8085 microprocessor family
[DE83-014604] 02 p0271 N84-11771
ANDERSON, R. J.
Ampfion hybrid diodes on hydramite and PBFA-1
[DE83-017824] 03 p0448 N84-12945
An evaluation of the Malvern optical particle monitor
[DE83-017039] 23 p3751 N84-33775
ANDERSON, R. L.
Influence of the interfacial layer on electrooptical properties of heterojunction solar cells
[DE84-013285] 22 p3618 N84-32925

ANDERSON, R. M.
Mathematical methodology for evaluating simulation of flow in porous media
[DE84-004775] 09 p1316 N84-18601
ANDERSON, R. S.
Buckling of turbulent jets 05 p0683 N84-14488
ANDERSON, S. A.
Research opportunities in bone demineralization, phase 3 11 p1693 N84-21046
Research opportunities in bone demineralization, phase 3
[NASA-CR-3795] 17 p2743 N84-27417
ANDERSON, S. B.
Pilot human factors in stall/spin accidents of supersonic fighter aircraft 06 p0779 N84-15102
V/STOL concepts in the United States: Past, present, and future
[NASA-TM-85938] 13 p1926 N84-22532
V/STOL maneuverability and control
[NASA-TM-85939] 13 p1935 N84-22584
V/STOL concepts in the United States: Past, present, and future 16 p2436 N84-25628
V/STOL maneuverability and control 16 p2437 N84-25632
ANDERSON, S. M.
The study of a mass spectrometer-beam system for measurements of ozone and other minor constituents of the stratosphere 11 p1677 N84-20942
ANDERSON, T. J.
A comparative thermodynamic analysis of impurity incorporation in vapor phase epitaxial InP and GaAs
[AD-A135739] 09 p1395 N84-19113
ANDERSON, V. C.
Program in marine physics applied to Navy undersea missions
[AD-A133119] 06 p0885 N84-15753
Marine environmental acoustics
[AD-A133245] 06 p0909 N84-15902
ANDERSON, W. H.
Study of Thematic Mapper and Multispectral Scanner data applications 20 p3215 N84-30421
ANDERSON, W. R.
Intracavity laser excitation of NCO fluorescence in an atmospheric pressure flame
[AD-A134740] 08 p1164 N84-17579
ANDERSSON, B.
The predicted impact of linear roof apertures on the energy performance of office buildings 16 p2514 N84-26133
Thermal effects resulting from occupant behavior and building operation 16 p2515 N84-26143
ANDERSSON, J. O.
Risk models for risk distance prediction during release of toxic industrial chemicals caused by acts of war
[FOA-C-40185-C2(H2)] 06 p1183 N84-17707
DARK: A computer based system for simulating the potential hazards from releases of pressurized gases
[FOA-C-40183-C2] 10 p1565 N84-20255
ANDERSSON, L. H.
A method for the preparation of small particles of pure compounds or of compounds containing small amounts of foreign elements
[FOA-C-20502-A1] 02 p0192 N84-11246
Experimental technique for handling and analysis of particles collected after nuclear explosions
[FOA-C-20503-A1] 05 p0746 N84-14899
ANDERSSON, M.
Formulas for the L-2 minimal solutions of the Delta Delta bar equation in the unit ball of C sup N
[CTH-MATH-1983-16-PREPRINT] 13 p2034 N84-23189
Solution formulas for the delta delta bar equation and weighted Nevanlinna classes in the polydisk
[CTH-MATH-1984-07] 19 p3091 N84-29625
ANDERSSON, T.
Use of radar in the pilot project 18 p2887 N84-28323
ANDING, D.
ACOSS eleven (Active Control Of Space Structures), volume 2
[AD-A135676] 09 p1273 N84-18312
ANDO, R.
Ion Bernstein wave heating experiment on JIPPT-II-U device
[IPPJ-662] 11 p1734 N84-21305
ANDO, S.
Quasi-doublet-lattice method for oscillating thin airfoils in subsonic flow 07 p0985 N84-16378
ANDO, T.
Development of automatic measuring system for image pickup tubes
[NHK-LN-295] 15 p2335 N84-25014
ANDRADE, M.
Analysis of Sweet Lake geopressured-geothermal aquifer
[DE84-006053] 12 p1836 N84-21972
ANDRADE, R. D. S.
Systems dynamics: Recent technical advances and current projects
[INPE-2846-PRE/388] 02 p0286 N84-11874
ANDRADE, Z.
Speech communication 22 p3684 N84-33358
ANDRE, M.
Ion waves generated by streaming particles
[KGI-PREPRINT-065] 18 p2935 N84-28612
ANDREADIS, D.
Fuel effects on gas turbine engine combustion
[AD-A138385] 12 p1803 N84-21753
ANDREAS, E. L.
Reports of the U.S. - U.S.S.R. Weddell Polynya Expedition, October-November 1981. Volume 7. Surface-level meteorological data
[AD-A134476] 07 p1041 N84-16747
Reports of the U.S. - U.S.S.R. Weddell Polynya expedition, October-November 1981. Volume 6: Upper-air data
[AD-A134871] 08 p1187 N84-17736
ANDREASSI, J. L.
Brain responses and information processing IV. Investigations of hemispheric asymmetry in event related potentials and performance during discrimination of line orientation, color, shape and under visual masking
[AD-A139797] 15 p2383 N84-25289
ANDREEVA, I. V.
Polymerisation of acrolein and its derivatives. 2: Polymerisation of acrolein and alpha-alkyl substituted acrolein in the presence of metallic sodium
[BLL-M-28708-(5828.4)] 01 p0048 N84-10308
ANDREIEV, G.
Heat transfer effects during cold dense gas dispersion
[PB84-162999] 14 p2177 N84-24043
ANDREO, R. H.
Calculation procedures for variational, Born and exact solutions for electromagnetic scattering from two randomly separated dielectric Rayleigh cylinders
[AD-A138543] 13 p1982 N84-22865
ANDREOU, S. A.
Extensions and applications of a second-order landsurface parameterization
[NASA-CR-175144] 07 p1023 N84-16636
ANDREOZZI, A.
Description of the preliminary measurements carried out on the 11 GHz experimental facility at Roma-Monte S. Pancrazio
[FUB-39-1982] 05 p0671 N84-14411
ANDREUCCI, F.
Analysis of receivers provided with equalizers for digital radio links in the presence of multipath fading
[FUB-56-1982] 10 p1483 N84-19691
Analysis of the behavior of some types of synchronizer for numerical radio links in the presence of atmospheric multipath transmission
[FUB-57-1982] 10 p1483 N84-19692
ANDREW, G. A.
Characterization of fiber composite flywheels by ultrasonic imaging techniques
[DE84-004689] 10 p1452 N84-19487
ANDREW, R. C.
ESR steel deoxidation and slag practice: Influence on inclusion morphology
[MRL-R-915] 12 p1796 N84-21718
ANDREWS, A.
Potential application of artificial concepts to aerodynamic simulation
[NASA-TM-85976] 21 p3324 N84-31093
ANDREWS, A. D.
IUE observations of BY Draconis 24 p3975 N84-35176
Coordinated IUE and ground-based observations of active stars: Flare events on YZ CMi, V 1005 ORI, AD Leo and AR Lac 24 p3975 N84-35177
Rotational modulation of spots and plages on RSCVn stars 24 p3978 N84-35196
Models for the active and quiescent regions on the RS CVN-type system 2 Pegasi (HD 224085) 24 p3978 N84-35197
ANDREWS, D. C.
Adaptive feedforward linear wideband HF power bank
[AD-A134744] 08 p1151 N84-17493
ANDREWS, D. G.
Slotted variable camber flap
[NASA-CASE-LAR-12541-1] 13 p1930 N84-22551
ANDREWS, G. A.
A matched filter doppler processor for airborne radar
[AD-A130653] 01 p0065 N84-10425
ANDREWS, G. L.
A subsynoptic environment associated with two inter-mountain severe thunderstorm events
[DE83-014498] 03 p0412 N84-12694
ANDREWS, J. R.
Reference flat pulse generator
[PB84-162163] 17 p2672 N84-27030
ANDREWS, J. S.
MOD-2 wind turbine development
[NASA-TM-83460] 04 p0557 N84-13670
ANDREWS, J. T.
Climatic reconstructions in the North American arctic during the last 6000 years
[DE83-015836] 02 p0256 N84-11677
ANDREWS, J. W.
System safety study of minimum TCAS II (Traffic Alert and Collision Avoidance System)
[AD-A138674] 13 p1929 N84-22548
ANDREWS, K. S.
Wave climate synthesis using NMIMET: A trilogy of published papers
[NMI-R-167] 18 p2855 N84-28127
Assessment of a new global capability for wave climate synthesis 18 p2855 N84-28128
Ocean Wave Statistics: A new look 18 p2855 N84-28129
Wave climate synthesis worldwide 18 p2855 N84-28130
ANDREWS, M.
Investigation of intrinsically error-free programs
[AD-A132934] 05 p0730 N84-14791
ANDREWS, P. L.
Nonlinear theory of lower hybrid current drive II
[DE84-007292] 15 p2410 N84-25469
ANDREWS, R.
Adjoint sensitivity theory for steady-state ground-water flow
[DE84-003335] 09 p1337 N84-18732
ANDREWS, R. A.
Fermilab satellite refrigerator compressors with the oil- and moisture-removal systems
[DE83-017328] 04 p0515 N84-13386
ANDREWS, R. J.
Laser diagnostic development and measurement and modeling of turbulent flowfields of jets and wakes. Part 1: Two-dimensional laser Doppler anemometer studies of isothermal flowfield in a ducted centerbody combustor
[AD-A134691] 08 p1158 N84-17542
ANDREYCHENKO, K. P.
Effect of hydromechanical inertia forces on stability of cylindrical hydrodynamic bearing 13 p1971 N84-22789
ANDREYEV, A. B.
Estimation of sensitivity threshold in integrating analog-to-digital converters with averaging of readings 22 p3567 N84-32593
ANDREYEV, A. N.
A mathematical investigation of the induction acceleration of conductors
[AD-A133786] 05 p0741 N84-14870
ANDREYEV, L. V.
Experimental study of behavior of cylindrical shells with lumped masses under dynamic external pressure 17 p2650 N84-26947
ANDREYEV, N. I.
Static methods in the design of nonlinear automatic control systems
[AD-A143297] 22 p3644 N84-33101
ANDRIANOV, N. F.
Theoretical and experimental determination of stress-strain of high-pressure equipment
[BLL-M-35287-(5828.4)] 06 p0856 N84-15574
Numerical investigation of stress-strain state of composite working tool assembled with negative allowance
[BLL-M-35379] 09 p1328 N84-18672
ANDRIANOV, V. V.
Discharging a superconducting store into an inverting converter
[AD-A135577] 09 p1341 N84-18761
Improvement of surface planing with diamond tool 17 p2641 N84-26897
ANDRONOVA, V. P.
Cold-cathode gas-discharge modulator power tube 21 p3379 N84-31443
ANDRYUSCHENKO, A.
Hungarian officials comment on performance of Soviet-built aircraft 18 p2784 N84-27670
ANDUINI, C.
Study on synthesis and characterization of large space systems, phase 2. Part 2: Proposals for additions, modifications and new analytical methods, volume 2
[ESA-CR(P)-1779-VOL-4] 12 p1780 N84-21616
ANG, P. G. P.
Solar-assisted hydrogen generation by photoelectrocatalysis: Electric birefringence and ellipsometric spectroscopy of the semiconductor/electrolyte interface
[PB84-169804] 15 p2288 N84-24731
ANGEL, C.
Summary of earthquake intensity file: A computerized file of the effects of earthquakes in the United States
[PB84-101443] 08 p1189 N84-17745

ANGEL, J. R. P.
Innovative research in the design and operation of large telescopes for space: Aspects of giant telescopes in space 17 p2765 N84-27560
ANGELAKOS, D. J.
Joint services electronics program
[AD-A136058] 09 p1309 N84-18559
ANGELINI, P.
Microstructure and properties of TiB2 implanted with 1-MeV nickel
[DE83-014020] 01 p0154 N84-11012
ANGELL, C. A.
Anomalies in, and crystallization of supercooled water and aqueous solutions
[AD-A140582] 17 p2767 N84-27573
ANGELL, J. K.
A preliminary study of the feasibility of detecting long-term trends in atmospheric humidity
[DE84-006417] 14 p2180 N84-24055
ANGELO, J. A.
Space reactors: Past, present and future
[DE83-011177] 03 p0437 N84-12870
ANGELO, J. A., JR.
Space environment effects (M0006)
15 p2279 N84-24690
ANGELO, J., JR.
Space reactors: What is a kilogram?
[DE84-012656] 22 p3655 N84-33169
ANGELO, P.
New conformal solution theory
[PB83-249441] 03 p0457 N84-13008
ANGILELLO, J.
Automated microdensitometer for digitizing astronomical plates 18 p2841 N84-28039
ANGLIN, J. D.
The ISPM cosmic-ray and solar-particle investigation
09 p1262 N84-18236
ANGRAVE, R.
Results of a questionnaire on the teaching of Computer-Aided Engineering (CAE) on undergraduate courses
[TT-8404] 24 p3937 N84-34919
ANGULO, E. D.
Apparatus for disintegrating kidney stones
[NASA-CASE-GSC-12652-1] 24 p3936 N84-34913
ANGUS, J. C.
Dual ion beam deposition of carbon films with diamondlike properties
[NASA-TM-83743] 21 p3390 N84-31512
ANGUS, J. E.
Reliability model demonstration study, volume 1
[AD-A138196] 12 p1881 N84-22262
Reliability model demonstration study, volume 2
[AD-A138197] 12 p1881 N84-22263
ANGUS, R. G.
The effects of sleep loss and sustained mental work: Implications for command and control performance
11 p1697 N84-21069
ANHALT, J.
Two years experience testing solar collectors in Brazil
[INPE-3221-RPE/461] 21 p3434 N84-31785
ANISHCHENKO, V. S.
Structure of quasi-hyperbolic stochasticity in inertial self-excited oscillator 18 p2823 N84-27923
ANISIMOV, V. Y.
Noise immunity of optical lines with imprecise levels of signal and noise 17 p2634 N84-26852
ANISIMOV, Y. N.
Peculiarities of minimization of mixer noise factor
17 p2635 N84-26856
ANISIMOV, Z. A.
Turbulent flow of aerosol in rotating channels of turbomachines 17 p2649 N84-26939
ANJAR, B.
Silent radar: A study of the performances of a navigational radar with limited range
[FOA-C-30334-E1] 08 p1146 N84-17461
Reporting of indication data
[FOA-C-30352-E] 15 p2407 N84-25446
ANKENBRANDT, C.
Hadron-hadron collider group
[DE83-010704] 03 p0437 N84-12865
ANKER, D. K.
Static analysis package
[REPT-71.3794] 12 p1884 N84-22283
ANNIS, C. G., JR.
Statistics of crack growth in engine materials. Volume 2: Spectrum loading and advanced techniques
[AD-A140920] 17 p2680 N84-27072
ANNO, G. H.
Initial human response to nuclear radiation
[AD-A137543] 11 p1694 N84-21054
Estimated effects of ionizing radiation upon military task performance: Individual combat crewmember assessment
[AD-P003255] 18 p2905 N84-28422
ANODINA, T.
Ministry official on improving all-weather aviation capabilities 14 p2093 N84-23552
ANOKHINA, N. A.
Variations in EEG in relation to brain functional status
18 p2897 N84-28377
ANSARI, F.
A three-dimensional photoelastic investigation of stresses and cracks formed in concrete around deformed reinforcing bars 06 p0862 N84-15621
ANSELL, G. S.
Composite structural materials
[NASA-CR-174597] 03 p0347 N84-12257
Composite structural materials
[NASA-CR-173259] 08 p1122 N84-17293
Tempering kinetics of alloy steels as a function of quench rate and M sub s temperature
[AD-A134806] 08 p1132 N84-17365
On the effect of fine grain size on the M sub s temperature in Fe-27Ni-0.025C alloys
[AD-A134807] 08 p1133 N84-17366
Effect of refractory elements on the coherency strain and flow stress on nickel-base superalloys
[AD-A142220] 19 p2994 N84-28975
ANSELONE, P. M.
Regular operator approximation theory
[HMI-B-389] 08 p1226 N84-18008
ANSLIJN, R.
Tests on steel I-beam columns subjected to thrust and biaxial bending
[CRIF-MT-157] 07 p1017 N84-16598
ANSON, F. C.
Fundamental processes occurring at electrodes
[AD-A138038] 12 p1791 N84-21679
ANSOURIAN, P.
Buckling of stiffened cylindrical bins under wind loading
[PB84-137926] 10 p1518 N84-19941
ANSPAUGH, B. E.
Radiation effects in silicon and gallium arsenide solar cells using isotropic and normally incident radiation
[NASA-CR-174007] 24 p3916 N84-34793
ANSTREICHER, K. M.
Generation of feasible descent directions in continuous time linear programming
[DE84-002506] 05 p0717 N84-14694
ANTAL, L.
Outline of methods for design of superconducting turbogenerators
[AD-A132528] 04 p0525 N84-13451
ANTAR, B. N.
Studies of convection in a solidifying binary mixture at reduced gravity
[NASA-CR-170916] 02 p0190 N84-11231
Analytical and numerical solution for a solidifying liquid alloy slab 06 p0927 N84-16025
Theoretical analyses of baroclinic flows
24 p3923 N84-34830
ANTAYA, T. A.
Dual arc penning ion source gas flow experiments
[DE84-011637] 21 p3495 N84-32151
ANTHONY, R. W.
NSSFC: VAS assessment activities
24 p3932 N84-34891
ANTHONY, S. J.
Coherence study of geomagnetic fluctuations in frequency range .04 - 0.6 HZ between remote land sites
[AD-A138542] 13 p2011 N84-23042
ANTIPIN, A. G.
Statistics of field of multistage phased antenna array
17 p2632 N84-26834
ANTIPIN, M. V.
Requirements to be met by parameters of high-definition television systems for cinematography
17 p2633 N84-26841
ANTIPOV, V. V.
Review of book on space radiobiology
15 p2378 N84-25270
ANTOINE, P.
The definition of the process of electrochemical impregnation of nickel electrodes
[NASA-TM-77356] 09 p1277 N84-18338
ANTOLOVICH, S. D.
Elevated temperature low cycle fatigue of nickel base superalloys in the conventionally cast, directionally solidified and single crystal forms
[AD-A133598] 06 p0806 N84-15253
ANTON, Y. A.
Seasonal variation of spectral brightness coefficients for barley and rye 19 p2977 N84-28872
ANTONCHIK, V. S.
Differential equations for movement of triaxial gyroscopic stabilizer on moving base 21 p3488 N84-32107
ANTONELLI, M.
Automotive Stirling engine development program
[NASA-CR-168205] 08 p1242 N84-18117
Automotive Stirling engine development program
[NASA-CR-174622] 21 p3521 N84-32305
ANTONELLI, P.
Design of receiver transmitters for use in multiple access networks 10 p1478 N84-19656
ANTONELLO, E.
Application of multivariate analysis to the parameters of parameters of astrophyiscal objects
09 p1408 N84-19199
Some applications of multiple regression analysis
09 p1410 N84-19220
Discriminant analysis in astronomy
09 p1411 N84-19223
ANTONIAK, Z.
Parametric testing and evaluation of a free-piston Stirling engine/linear-compressor system
[DE83-017282] 04 p0545 N84-13590
Stirling engine applications study
[PB84-148055] 12 p1823 N84-21888
ANTONSEN, T. M., JR.
Ballooning precessional instabilities in a single cell hot electron plasma
[DE84-007017] 14 p2230 N84-24373
ANTONUCCI, R. R. J.
Optical flux and polarization spectra compared with radio maps of radio galaxies 06 p0938 N84-16093
ANTONYAN, A. A.
Physiological and ecological characteristics of the water fern, azolla pinnata, and prospects of using it in biological life-support system for man 02 p0261 N84-11709
ANTOON, T. A.
COMPBL-II: Compressible, variable pressure boundary layer program for arbitrary gaseous mixtures
[AD-A131352] 02 p0218 N84-11427
ANTOULAS, A. C.
A new approach to synthesis problems in linear system theory
[PB84-124742] 09 p1379 N84-19014
ANTROP, M.
Inventoring and monitoring of landscape as a natural and cultural resource 03 p0397 N84-12594
ANTSIFEROV, A. V.
Experimental study of behavior of cylindrical shells with lumped masses under dynamic external pressure
17 p2650 N84-26947
ANTSUPOV, A. V.
Supersonic three-dimensional jet flow in channel
17 p2646 N84-26926
ANTYPAS, G. A.
Development of high purity IP crystals
[AD-A135937] 09 p1395 N84-19114
ANUTA, P.
LANDSAT-4 MSS and Thematic Mapper data quality and information content analysis
23 p3766 N84-33871
ANUTA, P. E.
LANDSAT 4 image data quality analysis
[E84-10036] 04 p0551 N84-13629
LANDSAT-4 image data quality analysis
[E84-10134] 16 p2506 N84-26082
LANDSAT-4 image data quality analysis
[E84-10158] 17 p2709 N84-27250
LANDSAT-4 MSS and TM spectral class comparison and coherent noise analysis 20 p3208 N84-30381
Spatial resolution estimation of LANDSAT-4 TM data
20 p3210 N84-30394
LANDSAT-4 image data quality analysis
[E84-10173] 22 p3613 N84-32893
ANZIC, G.
Microwave monolithic integrated circuit development for future spaceborne phased array antennas
[NASA-TM-83518] 04 p0517 N84-13399
MMIC technology for advanced space communications systems
[NASA-TM-83749] 20 p3173 N84-30147
The 20 and 30 GHz MMIC technology for future space communication antenna system
[NASA-TM-83745] 21 p3382 N84-31460
Monolithic microwave integrated circuits: Interconnections and packaging considerations
[NASA-TM-83774] 21 p3382 N84-31461
AOKI, R. M.
Behavior of idealized discontinuities and impact damages in CFRP under fatigue loading
01 p0034 N84-10214
AOKI, T.
Rotating and propagating LIB stabilized by self-induced magnetic field
[IPPJ-640] 03 p0444 N84-12916
Buildup and sustainment of 10(13) and cm(-3) plasma by ICRF in RFC-XX
[IPPJ-653] 10 p1580 N84-20356
Exponential calculus of microdifferential operators of infinite order, part 1 13 p2033 N84-23181

Plasma heating, confinement and stabilization experiments in axisymmetric mirror-cusp device
[IPPJ-690] 24 p3965 N84-35105

AONO, M.
An automatic syntheses of hardware algorithm
22 p3563 N84-32568

AONO, T.
Improvement in quality of silicon-based amorphous films 21 p3477 N84-32041

AONUMA, T.
Mass transfer during drop formation in the presence of interfacial turbulence in the liquid-liquid systems
[BLL-DOUNREAY-TR-923-(9091.9F)] 09 p1311 N84-18568

AOTA, M.
Distribution of pack ice of Okhotsk Sea coast of Hokkaido observed with sea ice radar network, January-April 1983
23 p3762 N84-33846

APAEV, B. A.
Martensitic transformations, relaxation and acoustic-emission properties of some alloys of the Fe-Ni-Mn system
[BLL-M-35434-(5828.4)] 09 p1281 N84-18363

APANASEVICH, S. F.
Vacuum-deposited thin-film interferometers as bistable devices operating continuously at room temperature
14 p2241 N84-24453

APEL, U.
Design of a project plan for the establishment of a lunar factory
[ILR-MITT-123] 10 p1435 N84-19379

APERS, P. M. G.
Query processing and data allocation in distributed database systems
[MATH-CENTRE-TRACTS-156] 08 p1239 N84-18101

APLEY, V. B.
Seasonal variation of spectral brightness coefficients for barley and rye 19 p2977 N84-28872

APONASENKO, A. D.
Investigating spatial distribution of phytoplankton in Lake Baykal by optical methods 19 p2976 N84-28868

APONTE, J. M.
Phase-slip centers and their interactions
[AD-A130914] 01 p0153 N84-11006

APPEL, J.
Detectors at 20 TeV and detector considerations for a high luminosity hadron-hadron machine
06 p0911 N84-15920

APPEL, M. A.
Very low thrust and low chamber pressure GO2/GH2 thruster technology 20 p3136 N84-29910
Oxygen/hydrogen thrusters for the space station auxiliary propulsion systems 20 p3140 N84-29934

APPELBAUM, A.
Formation of silicide contacts using codeposited refractory metals alloy films
[AD-A142879] 21 p3391 N84-31519

APPELMANN, H.
Optical and ultraviolet observations of FK Comae stars 24 p3978 N84-35198

APPERT, Q. D.
Alignment telescope for Antares
[DE83-014179] 01 p0088 N84-10576
Operational performance of the Antares alignment system
[DE84-012659] 21 p3410 N84-31632

APPLETON, B. R.
Structure-property relationships in ion-implanted ceramics
[DE83-015505] 02 p0202 N84-11313
Ion-beam surface analysis in plasma-edge studies
[DE84-001578] 04 p0607 N84-14004
Solid-State Division
[DE84-000296] 04 p0613 N84-14045
Ion beam modification of ceramics
[DE84-003302] 08 p1138 N84-17403
Ion implantation, ion beam mixing and annealing studies of metals in Al2O3, SiC and Si3N4
[DE84-012336] 20 p3157 N84-30052

APPLETON, B. S.
Effect of atropine on the exercise-heat performance of man
[AD-A131843] 03 p0416 N84-12719

APPLIN, Z. T.
Flow improvements in the circuit of the Langley 4- by 7-meter tunnel
[NASA-TM-85662] 06 p0781 N84-15117

APPS, R.
Procedures for static and constant-rate tests on a Single-Degree-of-Freedom (SDF) strapdown gyroscope
[AD-A136832] 09 p1318 N84-18609

APPUHN, R. A.
Integrated bid estimate systems for contractors
05 p0717 N84-14699

APRESYAN, L.
Wavefront reversal in nonstationary medium with large-scale inhomogeneities description by operator equations 18 p2822 N84-27918

APRUZESE, J. P.
A proposed technique for creation and detection of hot electron ionization and gain effects in a laser-produced tin plasma
[AD-A144025] 23 p3828 N84-34281

APRYATKIN, I. V.
Special features of electrochemical determination of non-uniformly distributed oxygen in melts
[BLL-M-35105-(5828.4)] 01 p0036 N84-10226

APT, K. R.
Ten years of Hoare's logic, a survey. Part 2: Nondeterminism 08 p1209 N84-17882

APTS, C. W.
Fate and effects of metals in the sea-surface microlayer
[DE84-000114] 04 p0569 N84-13752

AQUILINA, C. A.
Data base management system of the National Low-Level Radioactive Waste Management Program
[DE84-012789] 21 p3519 N84-32291

ARABEI, E. V.
Magnetic properties and structure of monocrystals of Fe-24 percent Cr-15 percent Co-8 percent W alloys
[BLL-M-35131-(5828.4)] 01 p0040 N84-10253

ARABIAN, J. M.
Reverse engineering of the multiple launch rocket system. Human factors, manpower, personnel, and training in the weapons system acquisition process
[AD-A142849] 21 p3349 N84-31247

ARAFA, A.
Technical use of solar energy: Conversion from solar to thermal energy, solar cooling and thermal energy storage
[BMFT-FB-T-83-300] 15 p2362 N84-25173

ARAI, N.
Geostationary meteorological satellite image navigation
[INPE-2772-RPE/435] 07 p1023 N84-18632

ARAKAKI, Y.
Specifications for a low capacity SCPC FM Earth station
[INPE-2944-NTE/208] 17 p2652 N84-26959

ARAKELYAN, S. M.
Experimental study of strong nonlinear-optics effects in liquid crystals 21 p3483 N84-32071

ARAVAS, N.
Stress intensity factors for slightly kinked, partially closed cracks in compression
[AD-A140550] 16 p2503 N84-26064

ARBIOL, R.
Mapping land use in Catalonia (Spain)
03 p0400 N84-12613

ARBTER, K.
Linear associative mappings
[DFVLR-FB-84-01] 15 p2396 N84-25375

ARBUCKLE, A. L.
A 2-dimensional numerical study of detonation propagation between munitions by means of shock initiation
[AD-A133680] 05 p0661 N84-14346
A numerical study of shock initiation of composition-b by high-speed impact of small steel projectiles
[AD-A139629] 15 p2303 N84-24821

ARBUCKLE, P. D.
Implications of control technology on aircraft design
11 p1615 N84-20573

ARCHAMBAUD, J. P.
Use of adaptive walls in 2D tests
[NASA-TM-77380] 10 p1432 N84-19359

ARCHANGELI, D.
Linguistics 22 p3684 N84-33359

ARCHER, R. D.
Metal-chelate polymers: Structural/property relationships as a function of the metal ion
[AD-A140205] 16 p2471 N84-25839

ARCHER, R. J.
Water resources data for New York, water year 1982. Volume 1: Eastern New York excluding Long Island
[PB84-114198] 09 p1339 N84-18744

ARCHIBALD, T. G.
Research in energetic compounds
[AD-A137484] 10 p1454 N84-19497

ARCIDIACONO, P.
Acoustic design criteria and validation
19 p3096 N84-29663

ARCIERI, J. D.
Policy initiatives to achieve readiness and support objectives
[AD-P002804] 13 p2058 N84-23350

ARDAI, J.
Geophysical data from drifting ice stations FRAM 4 and TRISTEN
[AD-A133370] 06 p0866 N84-15640

ARDALAN, S. H.
Parametric and nonparametric Fast Kalman echo cancellation 13 p1987 N84-22901

ARDEMA, M. D.
A formulation and analysis of combat games
[NASA-TM-85927] 13 p1935 N84-22585

ARDUINI, C.
Study on synthesis and characterization of large space systems, phase 2. Part 2: Proposals for additions, modifications and new analytical methods, volume 1
[ESA-CR(P)-1779-VOL-3] 12 p1780 N84-21611
The solution of the dynamic problem of the periodic structures by cyclosymmetric technique
12 p1780 N84-21612
Computing the radiation pressure forces by adapting thermal design verification softwares
12 p1780 N84-21613
Thermal design verification of the large open truss structures. The local approach and the shadow problem
12 p1780 N84-21617
Computational savings in view factor evaluation on mode prescreening 12 p1781 N84-21618
Interactive structural-thermal-control analytical formulations 12 p1781 N84-21619
Study on synthesis and characterization of large space systems, phase 2. Part 3: Experimental design verification techniques
[ESA-CR(P)-1779-VOL-5] 12 p1781 N84-21620
Study on synthesis and characterization of large space systems, phase 2. Part 1: Assessment of design verification analytical methods. Volume 1: Mechanical design
[ESA-CR(P)-1779-VOL-1] 12 p1782 N84-21624
Study on synthesis and characterization of large space systems, phase 2. Part 1: Assessment of design verification analytical methods. Volume 2: Thermal design
[ESA-CR(P)-1779-VOL-2] 12 p1782 N84-21625

ARDUINI, R. F.
A simulation of remote sensor systems and data processing algorithms for spectral feature classification
[NASA-CR-172393] 22 p3597 N84-32784

ARECCHI, F. T.
Turbulence and 1/f noise in quantum optics
14 p2232 N84-24385

AREND, L. E.
Eye movements and spatial pattern vision
[AD-A140949] 18 p2914 N84-28481

ARENDS, H.
Laboratory measurement of impact ionization
08 p1118 N84-17271

ARENDS, M.
Air Force Academy Aeronautics Digest - Fall/Winter 1982
[AD-A135073] 08 p1099 N84-17145

ARENDT, P. N.
Auger and depth profile analysis of synthetic crystals for dispersion of soft X-rays
[DE83-015257] 02 p0293 N84-11918

ARENZ, R. W.
Enthalpy - improved dielectric insulation for superconducting wires
[AD-A131857] 03 p0356 N84-12316

ARETI, H.
High energy electromagnetic shower position measurement by a fine grained scintillation hodoscope
06 p0912 N84-15928
A measurement of the response of an SCG1-C scintillation glass shower detector to 2-17.5 GeV positrons 06 p0913 N84-15930

ARETZ, A. J.
Computer generated pictorial stores management displays for fighter aircraft
[AD-A131412] 02 p0179 N84-11168
A comparison of manual and vocal response modes for the control of aircraft subsystems
[AD-A132048] 03 p0330 N84-12152

ARGABRIGHT, T. A.
Heat/mass flow enhancement design for a metal hydride assembly, phase 2
[DE84-007182] 13 p1990 N84-22920

ARGENTOV, V. V.
Seismic model of Earth's crust in southern Sea of Okhotsk region and some results of its geological inerpretation 17 p2701 N84-27207

ARGO, R. S.
MEXAMS (Metals exposure analysis modeling system)
[PB84-157155] 12 p1799 N84-21736

ARGOTE, L.
The human side of robotics: Results from a prototype study on how workers react to a robot
[AD-A133438] 06 p0894 N84-15805

ARGOUD, M. J.
JPL tests of a LaJet concentrator facet
[NASA-CR-173470] 12 p1841 N84-22004
Protective telescoping shield for solar concentrator
[NASA-CASE-NPO-16236-1] 15 p2361 N84-25164
Parabolic Dish Concentrator (PDC-1)
18 p2871 N84-28226
Rapid Test Bed Concentrator (TBC) alignment techniques 18 p2875 N84-28256

ARGYRIS, J. H.
Adaptive correction of control machines
[ISD-301] 16 p2484 N84-25929
An inductive process in automatic recording of crack propagation
[ISD-298] 16 p2502 N84-26056
Utilization of light wave scales and opto-electronic transformers for measuring distortion and expansion
[ISD-309] 16 p2557 N84-26402

ARIDGIDES, A.
Acousto-Optic Adaptive Processing (AOAP)
[AD-A141445] 19 p3100 N84-29689

ARIGA, S.
Alternative fuels for medium-speed diesel engines (AFFMSDE) program: Slurries, emulsions, and blended-fuel extenders; cylinder wear measurements, staged injection
[DE84-000524] 04 p0510 N84-13340

ARIKAN, R.
The effect of loading rate and temperature on fracture initiation toughness in a low strength steel
15 p2401 N84-25410

ARIMONDO, E.
Precise measurements of bistability in a CO/sub 2 laser with intracavity saturable absorber
14 p2238 N84-24431

ARINA, R.
A finite difference technique for laminar and turbulent compressible boundary layers 06 p0835 N84-15433

ARIS, R.
Continuous chemical reaction chromatography
[DE84-004089] 10 p1456 N84-19509

ARIURA, Y.
A method of economical gear finishing of surface hardened gears 07 p0983 N84-16370

ARKERYD, L.
Loeb solutions of the Boltzmann equation
[CTH-MATH-1983-82] 13 p1991 N84-22926

ARKHANGELSKIY, D. Y.
Hemodynamic reactions to positive intrathoracic pressure at +G sub z accelerations
02 p0259 N84-11698

ARKHIPOV, V. I.
Effect of multifold trapping of carriers on transient photocurrent in amorphous semiconductors
17 p2635 N84-26860

ARLOT, J. E.
New ephemerides for the Galilean Satellites of Jupiter calculated from Sampson-Lieske theory
19 p3119 N84-29825
Observations of mutual phenomena of the Galilean satellites of Jupiter in 1979-1980
19 p3121 N84-29835

ARLOTTO, J. J.
Information retrieval research support
[AD-A131990] 03 p0459 N84-13022

ARMAN, E. F.
Measurement of spray combustion processes
11 p1609 N84-20530

ARMENDARIZ, M. G.
Transient response of GaAs microwave power FET to X-ray pulses
[DE84-008816] 19 p3019 N84-29139
Transient response of GaAs microwave power FET to X-ray pulses
[DE84-010145] 20 p3309 N84-31017

ARMENTANO, T. V.
Assessment of temporal dynamics of selected terrestrial carbon pools
[DE84-009850] 19 p3059 N84-29410

ARMENTROUT, C. J.
High power neutral beam heating on Doublet 3
[DE84-012471] 21 p3501 N84-32186

ARMILLI, R. V.
Measurement of local connective heat transfer coefficients of four ice accretion shapes
[NASA-CR-174680] 16 p2439 N84-25646

ARMINGTON, A. F.
Quartz growth on x-seeds
[AD-D011031] 19 p3112 N84-29770

ARMOUR, G. A.
Shuttle TPS thermal performance and analysis methodology 01 p0025 N84-10160

ARMOUR, S. J.
Comparative testing of polymer solutions. Part 1: Preliminary evaluation of a rheometrics fluids rheometer
[AD-A130888] 01 p0050 N84-10322
Measurements of elongational viscometry using a fiber spinning technique. Part 1: Modifications to the Sangamo Schlumberger elongational viscometer model E4
[AD-A140002] 15 p2333 N84-25010

ARMSTRONG, B.
Major detectors in elementary particle physics
[LBL-91-SUPPL] 06 p0910 N84-15910

ARMSTRONG, B. R.
San Juan Mountains avalanche study: Evaluation and prediction of avalanche hazard, meteorological and avalanche observations
[PB84-202704] 21 p3432 N84-31778

ARMSTRONG, E. S.
Spline-based estimation techniques for parameters in elliptic distributed systems
[NASA-TM-85439] 08 p1218 N84-17947

ARMSTRONG, G. M.
A polarization diversity radar data processor
[AD-A134011] 05 p0666 N84-14382

ARMSTRONG, K. B.
Some crazing experiments on As-cast acrylic to MIL-P-8184
[AD-P003196] 17 p2591 N84-26609

ARMSTRONG, L. E.
Effects of dietary sodium intake on body and muscle potassium content in unacclimatized men during successive days of work in the heat
10 p1549 N84-20153

ARMSTRONG, P.
Parameter estimation and infiltration tests at the repeat facility 16 p2514 N84-26136

ARMSTRONG, P. E.
Effect of hydrogen on the mechanical properties of a U5.7Nb alloy
[DE84-006679] 12 p1799 N84-21732

ARMSTRONG, R.
Custom integrated circuits 22 p3684 N84-33361

ARMSTRONG, R. A.
COCHISE observations of Argon Rydberg emission from 2 to 16 micrometers
[AD-A137916] 11 p1732 N84-21296
O-atoms yields from microwave discharges in N2O/Ar mixtures
[AD-A130429] 14 p2137 N84-23808

ARMSTRONG, R. L.
San Juan Mountains avalanche study: Evaluation and prediction of avalanche hazard, meteorological and avalanche observations
[PB84-202704] 21 p3432 N84-31778

ARMSTRONG, R. W.
Microstructural origins of hot spots in RDX explosive and several reference inert materials
[AD-A132056] 03 p0357 N84-12325
European Scientific Notes, volume 37, number 8
[AD-A133938] 05 p0759 N84-14977
European research on polymers and composites
[AD-A139760] 15 p2302 N84-24813

ARMSTRONG, T. P.
The ISPM experiment for spectral, composition and anistropy measurements of charged particles at low energie 09 p1261 N84-18235

ARMSTRONG, W. T.
Recent results in the Los Alamos compact torus program
[DE83-014147] 03 p0446 N84-12930
Translation of field-reverse configurations in the FRX C/T experiment
[DE84-007489] 14 p2230 N84-24376
Internal magnetic field measurements in a translating field-reversed configuration
[DE84-010054] 20 p3284 N84-30854

ARNAL, D.
Description and prediction of transition in two-dimensional, incompressible flow
23 p3748 N84-33758

ARNDT, J.
Development of technologies for highly integrated circuits
[BMFT-FB-T-83-142] 02 p0216 N84-11417

ARNDT, R. A.
Structurally stable, thin silicon solar cells
19 p3044 N84-29309

ARNDT, W.
Technical use of solar energy. Part 1. Thin films solar cells
[BMFT-FB-T-83-298-PT-1] 15 p2362 N84-25172

ARNETT, J. C.
Hot-spot investigations of utility scale panel configurations 22 p3582 N84-32687
Evolution of integrated panel structural design and interfaces for PV power plants 22 p3584 N84-32701
Qualification testing and electrical measurement experience: A manufacturer's view
22 p3585 N84-32705

ARNOLD, A.
Detection of severe weather by FAA radars
[FAA-RD-79-91] 17 p2733 N84-27372

ARNOLD, C., JR.
Membranes and separators for flowing-electrolyte batteries: A review
[DE83-016246] 02 p0242 N84-11586
Membrane separators for circulating electrolyte storage batteries
[DE84-002106] 07 p0998 N84-16471

ARNOLD, D.
Investigation of electrodynamic stabilization and control of long orbiting tethers
[NASA-CR-170972] 08 p1115 N84-17251

ARNOLD, F.
The Project STRAFAM: Test of a new parachute based instrument carrier for stratospheric research
[BMFT-FB-W-84-021] 21 p3445 N84-31859

ARNOLD, F. E.
Synthesis and properties of phenylated aromatic heterocyclic imide and thiazole polymers containing pendant diphenylether and diphenylsulfide groups
[AD-A140341] 16 p2472 N84-25844
Protected ethynylated phenols
[AD-D011096] 22 p3560 N84-32544

ARNOLD, G. C.
The derivation of the mapping equations and distortion formulae for the satellite tracking map projections
[AD-A143683] 23 p3784 N84-33998

ARNOLD, G. S.
Introduction to simulation of upper atmosphere oxygen satellite exposed to atomic oxygen in low Earth orbit
24 p3863 N84-34479
A facility for investigating interactions of energetic atomic oxygen with solids 24 p3863 N84-34481

ARNOLD, J. E.
Satellite Precipitation and Cloud Experiment (SPACE)
24 p3931 N84-34887
Sensor studies and space flight opportunities
24 p3933 N84-34896

ARNOLD, R. D.
Automated stereo perception
[AD-A130645] 01 p0122 N84-10792

ARNOLD, R. R.
Buckling, postbuckling, and crippling of materially nonlinear composite plates 05 p0644 N84-14239

ARNOLD, R. S.
On the generation and use of quantitative criteria for assessing software maintenance quality
13 p2025 N84-23128

ARNOLD, R. T.
Severe storm electricity 24 p3926 N84-34851
Severe storm electricity 24 p3927 N84-34860

ARNOLD, S. M.
E-beam written computer generated holograms
[AD-A133772] 05 p0684 N84-14499

ARNOLD, W. F., III
Numerical solution of algebraic matrix Riccati equations
[AD-A139929] 15 p2398 N84-25387

ARNOLDUSSEN, A. H.
Long term policy planning concerning Harderbos (Netherlands)
[REPT-178] 21 p3432 N84-31777

ARNOLDY, R. L.
Plasma jet effects on the ionospheric plasma
05 p0639 N84-14202

ARNONE, R. A.
Ocean optical remote sensing capability statement
[AD-A140589] 17 p2721 N84-27321

ARNOUD, M.
Evaluation of material of thermal response
[DGT-23.190A] 16 p2474 N84-25856

ARNOULT, J. F.
Thermal control of Telecom 1
10 p1441 N84-19413

ARNTS, R. R.
Atmospheric volatile hydrocarbon composition at five remote sites in Northwestern North Carolina
[PB84-177930] 17 p2620 N84-26768

ARNZEN, S.
Investigation of the positioning system at Recal-Decca Survey Ltd. (RDS), London
[FOA-C-20476-D8(E2,E3)] 07 p0950 N84-16182
The research of National Defence's (FOA) future policy document on space technology
[FOA-A-30034-E1] 15 p2265 N84-24602

ARON, K.
N(2) and CO vibrational CARS and h(2) rotational CARS spectroscopy of CH(4)-N(2)O flames
[AD-A132234] 04 p0493 N84-13238
CARS studies of nitramine lova propellant combustion
[AD-A135813] 09 p1280 N84-18357
Theoretical calculation of H/sub 2 S- and Q-branch spectra for propellant flames 13 p1943 N84-22636

CARS studies of nitramine LOVA propellant combustion 13 p1951 N84-22683
Theoretical calculations of H(2) CARS spectra for propellant flames
[AD-A135818] 17 p2619 N84-26758

ARON, P. R.
Characterization and measurement of polymer wear
[NASA-TM-83628] 12 p1800 N84-21739
RF sputtered silicon and hafnium nitrides as applied to 440C steel
[NASA-TM-86862] 22 p3559 N84-32536

ARONHIME, M. T.
The transformation of liquid to amorphous solid: The time to vitrify for styrene polymerization
[AD-A143228] 22 p3547 N84-32452

ARONOFF, H. I.
Manual for implementing a Shared Time Engineering Program (STEP) September 1980 through September 1983
[PB84-144260] 12 p1804 N84-21765

ARONS, I. J.
Heat resistant protective hand covering
[NASA-CASE-MSC-20261-2] 13 p2022 N84-23113
Heat resistant protective hand covering
[NASA-CASE-MSC-20261-1] 18 p2915 N84-28484

ARONSON, E.
Energy use: The human dimension
[DE84-001405] 05 p0714 N84-14676

ARONSON, E. A.
Location errors in time-of-arrival types of systems with augmenting equations
[DE84-006250] 11 p1717 N84-21198

ARONSON, G. L.
Value of flow calibration for decision making in infiltration/inflow studies
[PB83-259739] 05 p0682 N84-14483

ARONSON, S.
Status of P714 - LAPDOG
[DE83-013613] 01 p0164 N84-11079
Neutrino-oscillation experiments at Brookhaven National Laboratory
[DE83-018275] 04 p0528 N84-13476
Searching for limitations in capability due to high average rates 06 p0911 N84-15919
Use of synchrotron radiation for electron identification at high luminosity 06 p0913 N84-15935
Operation of a high-P/sub T spectrometer arm at 10/sup 33 cm-2 sec-1 with particle identification 06 p0913 N84-15937

ARONSSON, M.
Radar network in Sweden 18 p2888 N84-28333

ARORA, A. A.
Real-time implementation of a speech digitization algorithm combining time-domain harmonic scaling and adaptive residual coding, volume 1
[AD-A135232] 08 p1150 N84-17485
Real-time implementation of a speech digitization algorithm combining time-domain harmonic scaling and adaptive residual coding, volume 2
[AD-A135233] 08 p1150 N84-17486

ARORA, J. S.
Testament of general boundary conditions and point-wise state variable constraints in optimum design for static and dynamic response
[PB84-192749] 20 p3204 N84-30356

ARPASI, D. J.
RTMPL: A structured programming and documentation utility for real-time multiprocessor simulations
[NASA-TM-83606] 10 p1568 N84-20259

ARRAMBIDE, M. R.
The Sacramento Peak fast microphotometer 18 p2841 N84-28040

ARRINGTON, J. P.
Shuttle Performance: Lessons Learned, part 1
[NASA-CP-2283-PT-1] 01 p0018 N84-10115
A review of preflight estimates of real-gas effects on space shuttle aerodynamic characteristics 01 p0020 N84-10129
Shuttle Performance: Lessons Learned, part 2
[NASA-CP-2283-PT-2] 01 p0023 N84-10144

ARROYO, C. J.
Circuit transmission integrity of plenum cables in a developing fire scenario 11 p1726 N84-21282

ARSH, A. M.
Cold-cathode gas-discharge modulator power tube 21 p3379 N84-31443

ARSKARA, Y. P.
Influence of nitrogen-hydrogen-containing media on heat resistance properties of nickel-based alloys 24 p3877 N84-34570

ARTAMONOV, A. B.
Autonomous microprocessor controllers for scientific research automation systems 24 p3941 N84-34946

ARTHUR, J. S.
A distributed signal processing architecture
[AD-A130227] 01 p0119 N84-10771

ARTHUR, W.
Center for the transfer of desalination technology
[PB83-223057] 01 p0039 N84-10246

ARTIGLIA, E. W.
Technology transfer of the air quality assessment model
[AD-A139582] 14 p2173 N84-24018

ARTIOLI, R.
Sediment radioactivity in the stretch of the Po river from Monte Trino to Valle Caorso: Some results for the period 1978-82
[CISE-2071] 05 p0701 N84-14600

ARTJUSKOV, E. V.
The Lithosphere programme
[CSIR-TRANS-1724] 21 p3443 N84-31841

ARTMAN, D. H., JR.
Optimization of long range major rehabilitation of airfield pavements 02 p0182 N84-11181

ARTS, J. G. A.
Two-dimensional MHD boundary layers in argon-cesium plasmas
[EUT-83-E-139] 10 p1587 N84-20400

ARTS, T.
Three-dimensional rotational inviscid flow calculation 19 p3022 N84-29166

ARTSYBASHEVA, N. I.
Influence of microplastic deformations on spheroidization of cementite in steel
[BLL-M-35503-(5828.4)] 12 p1795 N84-21711

ARUMARAJ, Y. E.
On the Fatou set of monic polynomials 04 p0575 N84-13788

ARUTYUNYAN, G. M.
Subbarrier absorption in a stationary superlattice
[NASA-TM-77387] 10 p1587 N84-20402

ARVAS, E.
Analytical evaluation of the potential due to a uniformly charged planar triangular region
[AD-A130810] 01 p0138 N84-10907

ARVELADZE, M. P.
Density, specific humidity and water vapor elasticity above condensation level 17 p2697 N84-27183

ARVIDSON, A.
Development of a polysilicon process based on chemical vapor deposition, phase 1 and phase 2
[NASA-CR-173957] 23 p3786 N84-34015

ARVIDSON, J. M.
Tensile, compressive, and shear properties of a 64-kg/m3 polyurethane foam at low temperatures
[PB83-204818] 01 p0051 N84-10330
Tensile, comprehensive and sharp properties of a 96 kg/m3 cubic meter Polyurethane foam at low temperatures
[PB84-143643] 11 p1638 N84-20710

ARVIDSON, R.
Geology 20 p3218 N84-30442

ARVIDSON, R. E.
Structure of the Saint Francois Mountains and surrounding lead belt, south east Missouri: Inferences from thermal IR and other data sets
[E84-10027] 01 p0099 N84-10645

ARVIND
Efficient demand-driven evaluation (2)
[AD-A133879] 05 p0727 N84-14776
Efficient demand-driven evaluation
[AD-A133477] 06 p0898 N84-15827
Two fundamental issues in multiprocessing: The dataflow solution
[AD-A134239] 07 p1052 N84-16813
A multiprocessor emulation facility
[AD-A136094] 09 p1365 N84-18915

ARVIZU, D. E.
Use of superposition in calculating cooling requirements for circuit cards containing arrays of electronic components
[DE83-016091] 03 p0373 N84-12428

ARYA, L. M.
Accomplishments of the NASA Johnson Space Center portion of the soil moisture project in fiscal year 1981
[E84-10090] 10 p1521 N84-19961

ARYA, R. R.
A study of heterojunction solar cells based on n-CdS and several P-type semiconductors 11 p1672 N84-20914

ARZHAKOV, V. M.
Forging and stamping nonferrous metals. Handbook
[AD-A141689] 21 p3366 N84-31351

ARZHANNIKOV, A. V.
Production of dense plasma column in strong magnetic fields and its diagnosis by laser methods 21 p3488 N84-32104

ASABA, T.
Measurements of CARS intensity in hydrogen molecule behind shock waves 07 p0984 N84-16375

ASADA, H.
Smoothed local symmetries and their implementation
[AD-A142489] 20 p3279 N84-30811
The curvature primal sketch
[AD-A142460] 20 p3281 N84-30827

ASADA, M. K.
An analytical evaluation of spall suppression of impulsively loaded aluminum panels based on a 1-dimensional stress wave propagation model
[AD-A143173] 21 p3422 N84-31708

ASADZADEH, M.
Analysis of a fully discrete scheme for the neutron transport in cylindrical geometry
[CTH-MATH-1984-1] 13 p2041 N84-23246

ASAKURA, M.
Flexible composite film for printed circuit board
[NASA-TM-77109] 01 p0069 N84-10452
Flexible substrate for printed wiring
[NASA-TM-77459] 10 p1451 N84-19478

ASARO, R. J.
Report and recommendations for improving constitutive relations used in computer codes
[AD-A133239] 06 p0897 N84-15823
Combined macroscopic and microscopic approach to the fracture of metals
[DE84-014670] 23 p3719 N84-33577

ASAY, J. R.
Studies of elastic-plastic response under high pressure shock loading 15 p2316 N84-24900

ASBECK, P. M.
LEC GaAs for integrated circuit applications
[NASA-CR-173267] 07 p1079 N84-17014
LSI/VLSI (Large Scale Integration/Very Large Scale Integration) ion implanted GaAs (Gallium Arsenide) IC processing
[AD-A139676] 15 p2328 N84-24979
LSI/VLSI (Large Scale Integration/Very Large Scale Integration) ion implanted GaAs (Gallium Arsenide) IC processing. Appendix A: Feasibility analysis of Gallium-Arsenide mask programmable functions and logic arrays for high performance communications systems
[AD-A139677] 15 p2328 N84-24980
LSI/VLSI (Large Scale Integration/Very Large Scale Integration) ion implanted GaAs (Gallium Arsenide) IC processing. Appendix B: Two-dimensional modeling of GaAs MESFET devices for integrated high-speed logic circuits
[AD-A139678] 15 p2328 N84-24981

ASBRIDGE, J. R.
Electron heating at interplanetary shocks 03 p0470 N84-13098
Plasma properties of driver gas following interplanetary shocks observed by ISEE-3 03 p0474 N84-13123

ASCH, A. J.
Simulated 3-dimensional computer graphics training display for air weapons controllers, volume 1
[AD-A141347] 19 p3075 N84-29511

ASCHKENASY, E.
Computerized audio processor
[AD-A130390] 01 p0063 N84-10411

ASENJO, F. J.
Development of a slotted waveguide array panel for SAR antenna: Electrical design and testing
[IEC-MO-80/11] 23 p3732 N84-33656

ASH, A.
Investigation of intrinsically error-free programs
[AD-A132934] 05 p0730 N84-14791

ASH, J. E.
Thermodynamic analysis of multicomponent working fluids for Rankine bottoming cycle applications
[DE84-014843] 23 p3757 N84-33814

ASH, P. R.
An investigation of organizational climate: Definition, measurement, and usefulness as a diagnostic technique 17 p2771 N84-27595

ASH, R. L.
Turbulent wall pressure simulation
[AD-A132297] 04 p0533 N84-13507

ASHBAUGH, N. E.
Evaluation of COD (Crack-Opening-Displacement) compliance determined crack growth rates
[AD-A144037] 23 p3761 N84-33838

ASHBEE, K. H. G.
Glass fibre/epoxy resin interface life-time prediction
[AD-A132206] 04 p0507 N84-13320
Application of optical methods, including optical interference, to measure the dimensional stability of resins, resin based adhesives and resin based composites
[AD-A140297] 16 p2472 N84-25843

ASHBY, C. I. H.
Chemical erosion of first-wall materials by atomic hydrogen at high temperatures
[DE83-017161] 03 p0450 N84-12962
Origin of electron-bombardment enhanced reactivity of graphite with hydrogen
[DE83-017561] 04 p0600 N84-13960

Photoenhancement of gas-solid reactions by surface excitation
[DE84-003106] 07 p0972 N84-16299

ASHBY, M. F.
Deformation and fracture maps for polymer-foams, solid polymers and polymer-composites
[AD-A141197] 18 p2818 N84-27893
Creep damage mechanics and micromechanisms
[NPL-DMA(A)-77] 19 p3034 N84-29243

ASHCROFT, N. W.
Dense Coulomb plasmas: Quantum statistics and ordering 15 p2410 N84-25464

ASHER, J.
The detection of pitting corrosion in stainless steel using double-layer activation
[AERE-R-9751] 01 p0047 N84-10304

ASHEROV, A. T.
One method of assessing the validity of organizational-systems modelling
[BLL-M-35605-(5828.4)] 21 p3508 N84-32222

ASHFORD, C. B.
Interactive modeling of scintillation pulses by visual overlay of computed pulse shapes with the raw data
[DE83-012668] 01 p0124 N84-10805

ASHGRIZZADEH, N.
Ignition and flame propagation in sprays
[AD-A143773] 23 p3713 N84-33538

ASHKENAS, I. L.
Helistat simulation studies
[NASA-CR-166567] 11 p1614 N84-20564
Flexible aircraft flying and ride qualities 11 p1615 N84-20572

ASHLEY, C. E.
Influence of horizontally-random bottom structure on acoustic intensity in a shallow ocean
[AD-A141383] 19 p3099 N84-29688

ASHLEY, C. S.
Sol-gel transition in simple silicates, 2
[DE83-013975] 01 p0051 N84-10329

ASHLEY, H.
Refined methods of aeroelastic analysis and optimization
[NASA-CR-173967] 23 p3760 N84-33835

ASHLEY, J. L.
Fluidized bed air-to-air heat pump evaporator evaluation
[AD-A133072] 05 p0681 N84-14479

ASHLEY, S.
Calculation of natural ventilation and comfort
[DE84-009215] 19 p3071 N84-29485

ASHMORE, C. I.
Development of GAP-TAGN-PEG propellants. Part 1: Study of ingredients 20 p3143 N84-29954

ASHOK, S.
Transparent conductive coatings 12 p1840 N84-21999

ASHOUR-ABDALLA, M.
Plasma Physics on auroral field lines: The formation of ion conic distributions
[NASA-CR-173683] 18 p2932 N84-28595

ASHTON, G. D.
Predicting lake ice decay
[AD-A132012] 03 p0401 N84-12618

ASHWAL, L. D.
Workshop on a Cross Section of Archean Crust
[NASA-CR-175451] 11 p1677 N84-20947
Thermal contraints on high-pressure granulite metamorphism of supracrustal rocks 11 p1678 N84-20948
Metamorphic fluids and uplift-erosion history of a portion of the Kapuskasing structural zone, Ontario, as deduced from fluid inclusions 11 p1680 N84-20962

ASHWOOD, P. F.
Operation and performance measurement on engines in sea-level test facilities: Introduction and general survey 16 p2452 N84-25724

ASHWORTH, B. R.
Effects of motion base and g-seat cueing of simulator pilot performance
[NASA-TP-2247] 09 p1255 N84-18189

ASHWORTH, D. G.
Multiple-foil microabrasion package (A0023) 15 p2276 N84-24666

ASHWORTH, T.
Characterization of humidity sensors and physical properties of h20
[AD-A139024] 13 p1993 N84-22938

ASIALA, C. F.
Models of maintenance resources interaction: Peacetime operations
[AD-A131379] 03 p0457 N84-13011

ASKARYAN, G. A.
Resonance and edge amplification of an electric field in a plasma resonance layer and acceleration of particles at plasma inhomogeneities 21 p3483 N84-32073

ASKENASI, R.
Urinary excretion of hydroxylysyl glycosides as an index of bone metabolism 23 p3808 N84-34143

ASKEW, G. K.
Fuel fire tests of the helicopter crewman jacket
[AD-A140037] 15 p2385 N84-25302
Fuel fire tests of polytetra-fluoroethylene anti-exposure suits
[AD-A140038] 15 p2385 N84-25303

ASKEW, R. F.
Hydrogen ignition for laser propulsion 06 p0928 N84-16026

ASKINS, D. R.
Hydrolytic degradation of kapton film
[AD-A139016] 13 p1964 N84-22762

ASKINS, H. W., JR.
Nuclear electromagnetic pulse (EMP) and electric power systems
[DE84-010665] 20 p3175 N84-30166

ASKINS, R. E.
Deuterium isotope effects in HMX thermochemical mechanisms: Decomposition, deflagration, and combustion 13 p1950 N84-22680

ASKNE, J.
Proceedings of the Conference on Microwave Signatures in Remote Sensing
[FOA-C-30359-E1,E3] 19 p3042 N84-29305
Ground-based remote sensing of temperature and water vapor by passive microwave radiometers 23 p3774 N84-33925

ASKREN, W. B.
Human factors products: A one-act play with epilogue
[AD-A133354] 07 p1052 N84-16811

ASLAM, A.
Radar remote sensing for crop classification and canopy condition assessment: Ground-data documentation
[E84-10020] 01 p0099 N84-10643

ASLAM, S.
Moving finite elements in 1-D: A review of the method and the coding experience
[DE84-004821] 11 p1716 N84-21192

ASMEROM, Y.
Pinacate-Gran Desierto Region, Mexico: SIR-A data analysis 13 p2088 N84-23526

ASMUS, J. R.
The 20 GHz solid state transmitter design, impatt diode development and reliability assessment
[NASA-CR-174716] 23 p3741 N84-33715

ASMUSSEN, F.
The development and study of sensitive and process-compatible polymers for X-ray lithography
[BMFT-FB-T-83-122] 02 p0202 N84-11314

ASMUSSEN, J.
Spatial electron density and electric field strength measurements in microwave cavity experiments
[NASA-CR-173907] 22 p3582 N84-32682

ASMUSSEN, S.
Boundary problems and large deviation results for queue length processes
[CTH-MATH-1984-05] 19 p3090 N84-29823

ASOTOV, A. I.
Certain features of a vacuum magnetic-impulse welding process 12 p1787 N84-21656

ASP, B.
Comparative antenna measurements in real environment: Steerable null antenna at 30 - 76 MHz
[FOA-C-30303-E2] 08 p1146 N84-17459

ASRAR, G.
Intercepted photosynthetically active radiation estimated by spectral reflectance
[E84-10109] 12 p1829 N84-21927

ASSAAD, M. C.
Development of the linear displacement discontinuity method 05 p0691 N84-14536

ASSANIS, D. N.
Computer simulation of the heavy-duty turbo-compounded diesel cycle for studies of engine efficiency and performance
[NASA-CR-174755] 22 p3676 N84-33306

ASSCHER, M.
Energy redistribution in diatomic molecules on surfaces
[DE84-011442] 21 p3505 N84-32213

ASSELIN, A. S.
A multi-period repair parts inventory model for a naval air rework facility
[AD-A136873] 10 p1419 N84-19280

ASSIE, J. P.
Microwelding of various metallic materials under ultravacuum (A0138-10) 15 p2272 N84-24642

ASSINK, R. A.
Sol-gel transition in simple silicates, 2
[DE83-013975] 01 p0051 N84-10329
Membranes and separators for flowing-electrolyte batteries: A review
[DE83-016246] 02 p0242 N84-11586
Membrane separators for circulating electrolyte storage batteries
[DE84-002106] 07 p0998 N84-16471

ASSOUAD, P.
Density and dimension 14 p2211 N84-24275

ASSOUS, Y. J.
Bounds on network reliability 16 p2552 N84-26371

ASSUNCAO, G. V.
Identification and estimation of the area planted with irrigated rice based on the visual interpretation of LANDSAT MSS data
[E84-10164] 17 p2710 N84-27256

AST, D. G.
Carbon, oxygen and their interaction with intrinsic point defects in solar silicon ribbon material: A speculative approach
[NASA-CR-173756] 18 p2870 N84-28221
Structural characterization of solar silicon 18 p2939 N84-28640
Interactions of twin boundaries and dislocations in solar silicon
[NASA-CR-173942] 23 p3789 N84-34032

ASTAKHOV, V. V.
Structure of quasi-hyperbolic stochasticity in inertial self-excited oscillator 18 p2823 N84-27923

ASTASHKEVICH, B. A.
Peculiarities of minimization of mixer noise factor 17 p2635 N84-26856

ASTER, R. W.
Economic implications of current systems 12 p1838 N84-21982

ASTILL, D. L.
Simulation and evaluation of the Sh-2F helicopter in a shipboard environment using the interchangeable cab system
[NASA-TM-84387] 02 p0180 N84-11176

ASTON, G.
Ion beam accelerator system
[NASA-CASE-NPO-15547-1] 07 p1071 N84-16959
Hollow cathode apparatus
[NASA-CASE-NPO-15560-1] 07 p1076 N84-16993
Test bed ion engine development
[NASA-CR-174623] 11 p1624 N84-20632

ASTRELIN, V. T.
Calculation of ballistic focusing of ion beams
[DE84-012870] 20 p3297 N84-30934

ASTROEM, K. J.
Modeling and simulation techniques 01 p0015 N84-10096
Practical aspects of digital implementation of control laws 01 p0016 N84-10101

ASUKA, M.
Stream-water storage in the ocean using an impermeable membrane
[PB83-248369] 04 p0517 N84-13394

ASYYEV, L. M.
Aspects of medical examinations of airmen with regard to eye diseases 11 p1694 N84-21048

ATAC, M.
The problem of tracking charged particles in the cores of high energy jets in a high rate environment 06 p0911 N84-15916
Breakdown processes in wire chambers, prevention and rate capability 06 p0912 N84-15923

ATACIK, S.
Piecewise monotone interpolation and approximation with generalized polynomials 15 p2402 N84-25416

ATAKAN, A. K.
The 12 micron band of ethane: A spectral catalog from 765 cm(-1) to 900 cm(-1)
[NASA-TM-85108] 10 p1454 N84-19493

ATANASSOV, V.
Removal of ambiguity of two-dimensional gray level variance spectra obtained by processing ship radar images of ocean waves 23 p3772 N84-33909

ATARNANIUK, B.
Analysis of the influence of nonlinear and dissipative effects in atmospheric plasma
[ISSN-0208-5658] 19 p3106 N84-29732

ATASSI, H. M.
Feedback in separated flows over symmetric airfoils
[NASA-TM-83758] 21 p3324 N84-31091

ATAYANTS, B. A.
Random signal recognition based on spectral moments 22 p3568 N84-32597

ATCHINSON, K. M.
Software documentation support
[AD-P003487] 21 p3513 N84-32254

ATENCIO, L. G.
Fabrication of a hermetically sealed connector
[DE84-002322] 06 p0830 N84-15402

ATHALE, R. A.
A compact optical pulse compressor with computer-generated holographic masks for radar applications
[AD-A132152] 04 p0522 N84-13430
ATHANS, M.
Comments on bounded error adaptive control
[NASA-CR-173139] 07 p1057 N84-16848
Convergence theories of distributed iterative process: A survey
[AD-A135875] 09 p1382 N84-19027
Distributed optimization algorithms with communications
[AD-A137476] 10 p1480 N84-19672
On the complexity of distributed decision problems
[AD-A137443] 10 p1570 N84-20283
Adaptive control: Myths and realities
11 p1618 N84-20586
Proceedings of the 6th MIT/ONR (Massachusetts Institute of Technology/Office of Naval Research) Workshop on C3 (Command, Control, and Communications) Systems
[AD-A138614] 13 p1977 N84-22835
Optimal file allocation problems for distributed data bases in unreliable computer networks, 2
[AD-P002913] 13 p1981 N84-22864
Comments on bounded error adaptive control
[NASA-CR-173542] 15 p2399 N84-25393
Some design guidelines and discrete-time adaptive controllers
[NASA-CR-173800] 20 p3278 N84-30808
Adaptive control with variable dead-zone nonlinearities
[NASA-CR-173980] 24 p3948 N84-35001
ATKATSH, R. S.
Theory of viscoplastic shells for dynamic response
[AD-A131272] 01 p0096 N84-10624
ATKIN, S. D.
Design and use of nonstandard tensile specimens for irradiated materials testing
[DE84-001468] 06 p0806 N84-15254
ATKINS, D. E.
Coordinated research in robotics and integrated manufacturing
[AD-A137042] 10 p1555 N84-20191
ATKINS, D. F.
Space reactor system and subsystem investigations: Assessment of technology issues for the reactor and shield subsystem, SP-100 Program
[DE84-001586] 04 p0603 N84-13979
ATKINSON, A.
Surface modification of some titanate minerals subjected to hydrothermal chemical attack
[AERE-R-10799] 01 p0039 N84-10249
ATKINSON, B.
Software maintenance on FORTRAN libraries at a large computer installation
[DE84-002008] 08 p1213 N84-17914
ATKINSON, D. B.
Aircraft survivability 10 p1508 N84-19869
ATKINSON, J. H.
Advanced solar power systems
18 p2872 N84-28235
ATKINSON, L.
South Atlantic physical oceanography study (year 5). Volume 1: Executive summary
[PB84-187855] 21 p3451 N84-31899
ATKINSON, L. A.
An automated system for characterizing laser pulses
[AD-A136580] 13 p1995 N84-22945
ATKINSON, P.
The United Kingdom SATMaP program
[E84-10002] 04 p0551 N84-13627
ATKINSON, R. J.
Automated mesoscale winds derived from GOES multispectral imagery 24 p3933 N84-34895
ATKINSON, W.
Advanced high temperature heat flux sensors
[NASA-TM-83526] 07 p1001 N84-16493
ATKINSON, W. H.
Turbine blade and vane heat flux sensor development, phase 1
[NASA-CR-168297] 22 p3598 N84-32790
ATLAN, P.
Hydraulic generation of auxiliary power for the Mirage 2000 aircraft 03 p0335 N84-12176
ATLAS, D.
Remote sensing of air-sea interactions
17 p2712 N84-27267
The impact of scatterometer wind data on global weather forecasting 17 p2720 N84-27314
ATLAS, R.
Simulation studies of proposed observing systems and their impact on numerical weather prediction
12 p1850 N84-22050
Evaluation of glass model precipitation forecasts for North America during SOP-1 12 p1850 N84-22051
FGGE data impact studies in the Southern Hemisphere 12 p1850 N84-22054
SASS wind forecast impact studies using the GLAS and NEPRF systems: Preliminary conclusions
12 p1851 N84-22055
High resolution GLAS on the MCIDAS
12 p1852 N84-22062
First global analysis of SEASAT scatterometer winds and potential for meteorological research
17 p2720 N84-27315
ATLURI, S. N.
Path-independent integrals in dynamic fracture mechanics
[AD-P003111] 16 p2468 N84-25816
Inelastic and dynamic fracture and stress analyses
21 p3421 N84-31697
ATTA, E. H.
A grid-embedding transonic flow analysis computer program for wing/nacelle configurations
[NASA-CR-166529] 04 p0480 N84-13158
A computer program for the calculation of three-dimensional transonic nacelle/inlet flowfields
[NASA-CR-166528] 04 p0480 N84-13159
ATTAL, B.
Resonant coherent anti-Stokes Raman scattering
[ONERA-P-1983-3] 16 p2487 N84-25954
ATTALLA, A.
Diffusion properties and phase transitions of the metalic glass a-Zr2-PdH-x
[DE83-016626] 05 p0660 N84-14341
Quantitative determination of hydrogen by pulsed nuclear magnetic resonance spectroscopy
[DE84-002831] 06 p0802 N84-15227
ATTALLA, G.
Compatibilizing effect of a diblock copolymer of isotactic polystyrene and isotactic polypropylene in blends of the corresponding homopolymers
[AD-A143959] 23 p3724 N84-33601
ATTENBOROUGH, K.
Acoustic-to-Seismic coupling over porous ground surfaces
[AD-A138753] 13 p2011 N84-23046
ATTIA, F. G.
Effects of hydrogen on strength and ductility of tantalum 06 p0807 N84-15260
ATTMANNSPACHER, W.
Technical and meteorological qualifications of areal precipitation measurement by radar
18 p2886 N84-28316
Radar network in West Germany
18 p2888 N84-28332
ATTOH, K.
Geochemistry of volcanic rocks from the Wawa greenstone belt 11 p1680 N84-20963
ATTOUCH, H.
Homogenization for a Volterra equation
[AD-A134427] 07 p1061 N84-16882
ATTWOOD, D. T.
Short wavelength optics for future free electron lasers
[DE84-012316] 21 p3410 N84-31626
ATWAL, M.
Light aircraft sound transmission study
[NASA-CR-174540] 01 p0139 N84-10910
Noise path identification using face-to-face and side-by-side microphone arrangements
[NASA-CR-173708] 18 p2928 N84-28569
Measurement of the absorption coefficient using the sound-intensity technique
[NASA-CR-173848] 21 p3490 N84-32115
Study of double wall panels for use in propeller driven aircraft
[NASA-CR-173847] 21 p3490 N84-32116
Prediction of light aircraft interior sound pressure level using the room equation
[NASA-CR-173840] 21 p3490 N84-32117
ATWATER, H. A.
Submicron structures technology and research
22 p3683 N84-33353
ATWOOD, W. B.
Large area spark counters with fine time and position resolution
[DE84-007804] 15 p2337 N84-25031
AUBERT, J. H.
Helical screw rheometer: A new concept in rotational rheometry
[DE84-004055] 14 p2149 N84-23873
Helical screw viscometer
[DE84-011111] 20 p3189 N84-30261
AUBLE, R. L.
Implications of heavy-ion-induced satellite X-ray emission. Part 2: Production of K and L X-rays by 0.9 to 2.6 MeV/u Ar ions in thick targets of V, Cu, Nb, Ta, and Pt
[DE83-015681] 03 p0453 N84-12982
AUBREE, D.
Study of annoyance due to urban automobile traffic. Annex 5: Sociological study
[NASA-TM-77515] 24 p3968 N84-35124
AUBREY, D. G.
Sediment transport in a tidal inlet
[PB83-242271] 03 p0402 N84-12632
AUBRUN, J. N.
Vibration Control Of Space Structures VCOSS A: High and low-authority hardware implementations
[AD-A139931] 15 p2281 N84-24702
Design of a precision etalon position control system for a cryogenic spectrometer 15 p2348 N84-25093
AUBRY, Y.
Characterization of high powered laser diodes
24 p3904 N84-34728
AUBUCHON, J. C.
Rank-based inference for linear models: Asymmetric errors
[AD-A138404] 12 p1894 N84-22340
AUBURN, J. N.
ACOSS twelve (active control of space structures)
[AD-A143829] 23 p3701 N84-33458
AUDOUX, C.
Metal-free cylindrical v-grooved optical cable
11 p1724 N84-21244
AUER, F.
State-of-the-art survey of existing knowledge for the design of ground-source heat pumps
[DE84-002988] 07 p1003 N84-16504
AUER, H.
Urban scale variations of turbulence parameters and fluxes
[PB84-209113] 22 p3626 N84-32980
AUER, P.
Increase of worker autonomy at the industrial work place as shown in three humanization projects in Sweden, in Great Britain and in the USA
[BMFT-FB-HA-83-031] 16 p2564 N84-26453
AUER, S. J.
Gulf stream system landward surface edge statistics
[PB84-104314] 10 p1543 N84-20112
AUER, W.
A high resolution stepping motor
09 p1297 N84-18476
A double gimballed momentum wheel for precision 3-axis attitude control 15 p2266 N84-24608
Pointing, acquisition and tracking for intersatellite optical data links 24 p3905 N84-34735
AUERKARI, P.
The effect of post weld heat treatment on welds in steel structures
[VTT-RR-217] 07 p1013 N84-16570
AUGENBAUM, J. M.
The effect of compact implicit differencing in a baroclinic primitive equations model 12 p1852 N84-22067
A Lagrangian method for a two layer shallow water model 12 p1853 N84-22068
AUGERSON, W.
Human capabilities 09 p1268 N84-18282
AUGL, J. M.
Moisture transport in composites during repair work
[AD-A138658] 13 p1954 N84-22703
AUGUST, C.
Method and apparatus for measuring response time
[DE84-011042] 21 p3406 N84-31603
AUGUST, G.
Power transfer for microwave discharges
[AD-A138868] 13 p2044 N84-23267
AUGUST, R.
Dynamics of early planetary gear trains
[NASA-CR-3793] 16 p2498 N84-26027
AUKERMAN, L.
Electric field distortion in electro-optical devices subjected to ionizing radiation
[AD-A136573] 09 p1308 N84-18549
AULD, B. A.
Report of significant accomplishments. Joint services electronics program of the Edward L. Ginzton laboratory
[AD-A133360] 07 p0998 N84-16469
Elastic domain wall waves in ferroelectric ceramics and single crystals
[AD-A142393] 20 p3308 N84-31011
Materials for high-temperature thermoelectric conversion
[NASA-CR-173969] 23 p3786 N84-34011
Temperature compensation of surface transverse waves for stable oscillator applications
[AD-A144245] 24 p3894 N84-34660
AUMASSON, C.
Optimizing the maneuvers of an observation satellite for rapid overflight of a precise point on Earth
15 p2268 N84-24617

AUME, N. M.
Human strength capabilities for the operation of parachute ripcords and riser releases
[AD-A138328] 12 p1868 N84-22174
AUNGST, W. P.
Effect of fabrication techniques on consolidated charge burning 13 p1948 N84-22668
AUNON, J. I.
New techniques for measuring single event related brain potentials
[AD-A138694] 13 p2021 N84-23107
AUPOIX, B.
Three-dimensional wake of a swept wing 06 p0838 N84-15458
Computing the three dimensional boundary layer in a compressor 07 p0956 N84-16200
AURIEMMA, G.
Search for the radiative decay of a cosmic relic particle with IUE 24 p3982 N84-35231
AUSLANDER, T. W.
Evolution and flight history of the Defense Meteorological Satellite Program (DMSP) propulsion module 20 p3137 N84-29917
AUSTIN, F. S.
Utilization of basic language programming with EEPROM technology for data acquisition applications and development
[DE84-010380] 18 p2921 N84-28526
AUSTIN, G. L.
The vertical profile of reflectivity as an indicator of the active regions in PEP experiment 18 p2887 N84-28320
AUSTIN, J.
A system to measure LOS atmospheric transmittance at 19 GHz 15 p2324 N84-24951
AUSTIN, J. S.
A field study of Air Force organization structures
[AD-A142389] 20 p3312 N84-31035
AUSTIN, M. A.
Optimal design of friction-braced frames under seismic loading
[PB84-119288] 09 p1335 N84-18714
AUSTIN, R. W.
Passive remote sensing of ocean optical propagation parameters 06 p0872 N84-15673
AUTON, D. L.
The Defense Nuclear Agency intermediate dose program: An overview (effects of total-body irradiation on the performance of personnel in Army combat crews)
[AD-P003253] 18 p2905 N84-28420
AUTRY, A. N.
Hybrid space heating/cooling system with Trombe wall, underground venting, and assisted heat pump
[DE84-000406] 04 p0559 N84-13686
AUVINE, B.
Applications of the AVE-SESAME data sets to mesoscale studies
[NASA-CR-3819] 21 p3446 N84-31866
Studies of lightning data in conjunction with geostationary satellite data 24 p3928 N84-34861
AUZOU, S.
Study of annoyance due to urban automobile traffic. Annex 5: Sociological study
[NASA-TM-77515] 24 p3968 N84-35124
AVAKYAN, A. A.
The ultrastructural organization of the blue-green alga microcystis aeruginosa kuetz. Emend. Elenk in connection with toxicogenesis
[AD-A132540] 05 p0712 N84-14662
AVAKYAN, S. V.
Ion makeup in upper atmosphere affected by source of X-ray radiation 19 p2973 N84-28850
AVALOS-BORJA, M.
Transmission electron microscopy characterization of microstructural features of Al-Li-Cu alloys
[NASA-TM-84384] 02 p0193 N84-11255
A surface analytical examination of Stringer particles in Al-Li-Cu alloys
[NASA-TM-85854] 02 p0193 N84-11257
AVANT, R.
Evaluation results for the interactive video competency recognition system
[AD-A133052] 06 p0892 N84-15796
AVDEEV, V. P.
Special features of information presentation in teaching systems
[BLL-M-35604-(5828.4)] 21 p3516 N84-32273
Assessment of trends of input actions of inertial objects
[BLL-M-35689-(5828.4)] 22 p3644 N84-33104
AVDUYEVSKIY, V. S.
Avduyevskiy on accomplishments and prospects of cosmonautics 05 p0634 N84-14168
Hydromechanics and heat and mass exchange in weightlessness (Russian book): Table of contents
[NASA-TM-77533] 10 p1490 N84-19743
AVEDISSIAN, G.
Aerospatiale's experience on helicopter flight in icing conditions
[SNIAS-832-210-107] 16 p2448 N84-25707
AVENA, G. K.
International ultraviolet explorer observations of Wolf-Rayet binaries: Wind structures 11 p1757 N84-21467
AVERBACK, J.
A pioneer deep ocean mining venture
[PB84-199645] 21 p3433 N84-31780
AVERBUKH, A. I.
Space in Keplerian orbits 19 p2972 N84-28842
AVERETT, W. J.
Construction and evaluation of a flow test stand
[PB84-201581] 22 p3615 N84-32906
AVERETT, W. R.
Assessment of quality of data on tapes from the hydrogeochemical and stream sediment reconnaissance
[DE83-017697] 04 p0554 N84-13647
AVERILL, R. D.
Thermoelectric temperature control system for the pushbroom microwave radiometer (PBMR)
[NASA-TM-85824] 18 p2836 N84-28000
AVERIN, A. P.
Improving energy performance and duty time of production process CW electrical ionization CO2 lasers by using five-component lasing mixtures 21 p3481 N84-32065
AVERY, D. E.
Aerothermal performance and damage tolerance of a Rene 41 metallic standoff thermal protection system at Mach 6.7
[NASA-TM-85773] 17 p2615 N84-26739
Electroless-plating technique for fabricating thin-wall convective heat-transfer models
[NASA-TP-2349] 21 p3399 N84-31561
AVERY, L. W.
Human factors engineering. Part 1: Test procedures
[AD-A140343] 16 p2539 N84-26302
AVERY, S. K.
Meteorological and dynamical requirements for MST radar networks: Waves 17 p2683 N84-27080
Techniques for studying gravity waves and turbulence: Horizontal, vertical and temporal resolution needed 17 p2688 N84-27116
AVERY, V. F.
Morphology of buried craters: Lava thickness estimates by simulated flooding 13 p2079 N84-23471
AVERYANOV, V. L.
Impact of weak electric field on photoconductivity of modified vitreous As2Se3 20 p3286 N84-30867
AVERYANOV, V. S.
Functional status of operators and its systemic and technical determinants 18 p2895 N84-28369
AVERYANOV, V. V.
The cathode material for a plasma-arc heater
[BLL-OA-TRANS-3126-(6196.3)] 08 p1232 N84-18053
AVETISYANTS, B. L.
Method for identifying trace contaminants in chamber atmosphere at high pressure 02 p0262 N84-11718
AVIGNONE, F. T., III
Double beta decay: Recent developments and projections
[DE84-000476] 04 p0598 N84-13944
AVILA, W. B.
United States Air Force Academy, Department of Chemistry research: AY 1982-83
[AD-A141015] 18 p2808 N84-27828
AVILES, P.
On the singularities of certain nonlinear partial differential equations 04 p0575 N84-13787
AVILOV, I. A.
The effect of various carbon sources on the growth of single-celled cyanophyta
[NASA-TM-77090] 08 p1197 N84-17804
AVIS, B. E.
A host-target programming support environment for the production of high-quality real-time systems 05 p0724 N84-14753
AVIS, L. M.
A robust pseudo-inverse spectral filter applied to the Earth Radiation Budget Experiment (ERBE) scanning channels
[NASA-TM-85781] 15 p2370 N84-25219
AVITZUR, B.
Analysis of fracture modes during extrusion and drawing of bimetal rods or wire
[DE84-009849] 20 p3157 N84-30051
AVNI, R.
Homogeneous reactions of hydrocarbons, silane, and chlorosilanes in radiofrequency plasmas at low pressures
[NASA-TP-2301] 11 p1626 N84-20643
Radical and ion molecule mechanisms in the polymerization of hydrocarbons and chlorosilanes in RF plasmas at low pressures (1.0 torr)
[NASA-TM-83602] 11 p1736 N84-21329
Correlations between plasma variables and the deposition process of Si films from chlorosilanes in low pressure RF plasma of argon and hydrogen
[NASA-TM-83603] 11 p1737 N84-21330
AVRAMOVIC, Z.
M/A-COM linkabit eastern operations
[AD-A136463] 09 p1299 N84-18490
The DARPA Internet project: M/A-COM LINKABIT eastern operation
[AD-A137661] 11 p1711 N84-21155
AVRETT, E. H.
The calculation of theoretical chromospheric models and the interpretation of solar spectra from rockets and spacecraft
[NASA-CR-175351] 07 p1092 N84-17105
Ultraviolet and optical observations of metal deficient red giants and chromospheric models 24 p3974 N84-35166
AVRUNINA, G. V.
Mechanical properties of components made from powders received by processing low-grade porous titanium 23 p3707 N84-33500
AVVA, V. S.
Effect of fatigue and thermal loads on silicon carbon fiber reinforced glass matrix composites
[DE84-007464] 14 p2121 N84-23710
AWAD, E. A.
Nonlinear acoustics instabilities in combustion chambers 06 p0802 N84-15230
AWADALLA, N. G.
Probabilistic assessment of weld quality in steel piping under seismic conditions
[DE83-012053] 01 p0091 N84-10591
AWANI, A. O.
Numerical analysis of a variable camber rotor blade as a lift control device
[NASA-CR-173452] 12 p1769 N84-21538
The investigation of a variable camber blade lift control for helicopter rotor systems
[NASA-CR-3503] 18 p2788 N84-27695
AWAYA, Y.
Kinetic model on substrate-metabolic system and growth of microorganisms in activated sludge 07 p0982 N84-16362
AXELROD, T. S.
Nucleosynthesis in stellar explosions
[DE84-002787] 07 p1090 N84-17087
AXELSSON, G.
FOA-SUB underwater vehicle system: A brief description of the system and its state, Spring 1984
[FOA-C-20536-E1(E3)] 19 p3003 N84-29030
AXELSSON, H.
Air blast loadings on building elements from detonating 8.4 Kg Comp high explosive charges
[FOA-C-20522-D4] 15 p2349 N84-25102
AXENATH, K. H.
German-Argentinian R and D project for the utilization of wind energy
[BMFT-FB-T-84-080] 20 p3237 N84-30549
AXFORD, I.
Large scale solar modulation of 500 MeV/N galactic cosmic rays seen from 1-30 AU
[NASA-CR-173993] 24 p3995 N84-35283
AXFORD, W. I.
ISPM and the heliosphere 09 p1260 N84-18228
AXNAES, I.
Rapid energization of electrons in a critical velocity discharge experiment
[TRITA-EPP-83-02] 02 p0297 N84-11947
AXTON, R.
CdS/CuInSe2 heterojunction cell research
[DE84-004508] 22 p3618 N84-32926
AYDARALIYEV, A. A.
Problems and perspectives of Alpine work physiology 18 p2895 N84-28370
AYDELOT, J. C.
Computational modeling of jet induced mixing of cryogenic propellants in low-G
[NASA-TM-83703] 15 p2331 N84-25000
AYDELOTT, J. C.
On-orbit cryogenic fluid transfer
[NASA-TM-83688] 16 p2457 N84-25753
AYDEMIR, A. Y.
Sustained self-reversal in the reversed field pinch
[DE84-001559] 06 p0921 N84-15990
AYDIN, A. S. S.
Free vibration analysis of uniform and nonuniform cantilever beams by including the effects of transverse shear deformation and rotary inertia 15 p2402 N84-25417

AYDIN, M.
Electron paramagnetic resonance (EPR) study of calcite (CaCO3) containing both Mn-2+ and Pb-2+ cations
15 p2401 N84-25413
AYEN, W. E.
Performance measurement in a distributed processing environment
[AD-A142410] 20 p3266 N84-30722
AYERS, G.
Sedimentology of the Horlick Formation (Lower Devonians), Ohio Range, Transantarctic Mountains
14 p2162 N84-23948
AYERS, K.
Optimizing coagulation-adsorption for haloform and TOC (Total Organic Carbon) reduction
[PB83-210757] 01 p0058 N84-10378
AYERS, O. E.
Laser induced polymerization reactions in solid propellant binders 21 p3373 N84-31403
Laser induced nitrations of some aliphatic hydrocarbon compounds 21 p3373 N84-31404
AYERS, W. B., JR.
Estimation of uncertainty in coal resources
[DE83-902538] 03 p0401 N84-12620
AYERS, W. H.
Problem independent numerical simulation of two-phase flow in combustors 15 p2294 N84-24768
AYOUN, A.
Detailed system studies on rendezvous and docking. Part 1: Executive summary
[ESA-CR(P)-1894-PT-1] 23 p3697 N84-33428
AYRAULT, G.
Aging degradation of cast stainless steel: Status and program
[DE84-004018] 08 p1135 N84-17381
Effect of sulfuric acid, oxygen, and hydrogen in high-temperature water on stress corrosion cracking of sensitized Type 304 stainless steel
[DE84-007276] 15 p2298 N84-24795
Evolution of cavity microstructure in ion-irradiated 316 SS and Fe-20Ni-15Cr alloy
[DE84-012111] 20 p3158 N84-30053
AYRES, D. S.
Proceedings of the Summer Workshop on Proton Decay Experiments
[DE83-009572] 04 p0603 N84-13980
Future search for grand unified theory magnetic monopoles
[DE83-009451] 06 p0926 N84-16015
AYUSHINA, G. D.
Magnetic susceptibility of Fe-B, Fe - P and Ni - P alloys
[BLL-M-35126-(5828.4)] 01 p0138 N84-10902
AYZMAN, R. I.
Age-related responses to de- and hyperhydration
21 p3452 N84-31905
AZAMBUJA, S. O.
Barreira do Inferno: Five years of ozone research
[INPE-2974-PRE/437] 23 p3796 N84-34073
AZAR, S. S.
El Paso/Ysleta schools Get-Away Special Space Shuttle student projects 18 p2799 N84-27766
AZAREWICZ, J.
Latchup window tests
[AD-A138680] 13 p1986 N84-22894
AZAROVA, M. T.
Scale effect of fiber strength and properties of fiber-based unidirectional composites
23 p3706 N84-33496
AZEVEDO, E. G.
Molecular basis for local compositions in liquid-mixture models
[DE83-016604] 04 p0495 N84-13250
AZEVEDO, L. J.
Pressure studies of organic superconductors
[DE83-015344] 01 p0155 N84-11021
AZUMA, Y.
Macrocycles containing tin. Syntheses of symmetrical macrocycles containing 2 or 4 diphenylstanna units
[AD-A133697] 05 p0659 N84-14329
Macrocycles containing tin. Synthesis and structure of 1,10-Diphenyl-1,10-Distannabicycle (8.8.8)Hexacosane
[AD-A142703] 20 p3145 N84-29966
AZZAZY, M.
Temperature, concentration, and size measurements in turbulent reactive flows 13 p1943 N84-22633
AZZAZY, M. T. F.
Theoretical and experimental investigation of turbulent premixed flames 03 p0370 N84-12409
AZZOLA, J.
Developing turbulent flow in a 180(0) curved pipe and its downstream tangent
[DE84-013391] 22 p3595 N84-32767

B

BAARS, E. P.
Backscatter measurements on snow covered terrain at 94 GHz
[REPT-4-84] 20 p3172 N84-30144
BABA, H.
Solar cells of metal-free phthalocyanine dispersed in polyvinyl carbazole. 1: Effects of the recrystallization of H2PC on cell characteristics
[NASA-TM-77043] 07 p1025 N84-16639
BABA, Y.
Compact Claude cycle refrigerator for laboratory use
06 p0819 N84-15338
BABAEV, A. P.
Plasma particle acceleration due to emission of ground-based and onboard transmitters
05 p0636 N84-14181
BABAITSEV, I. V.
Explosion parameters of ferroalloy dusts
[BLL-M-35571-(5828.4)] 20 p3165 N84-30102
BABBITT, R. W.
Precision cutting of millimeter wave ferrite materials
[AD-D011179] 24 p3891 N84-34639
BABCOCK, A. K.
Predicting variations in Earth rotation
09 p1411 N84-19225
BABCOCK, S. M.
Basis research on intelligent robotic systems operating in hostile environments: New developments at ORNL
[DE84-011464] 21 p3414 N84-31647
BABCOCK, W. C.
Novel composite membranes
[PB83-243170] 03 p0351 N84-12284
Coupled-transport membranes for metal separations, phase 5
[PB84-127034] 09 p1286 N84-18396
BABENKO, Y. I.
Cooling of semiinfinite body under conditions of nonlinear heat transfer at surface
21 p3483 N84-32075
BABER, B. B.
Engine-transmission angular-contact ball thrust bearing endurance tests
[AD-A136264] 09 p1325 N84-18655
BABERNICS, L.
Procedure for producing higher hydrocarbons
[NRC/CNR-TT-2073] 06 p0800 N84-15217
BABICH, Y. N.
Analysis of unsteady processes caused by nonaxisymmetrical loading of finite multilayer cylinders
12 p1788 N84-21661
BABISH, C. A.
Status of new aerothermodynamic analysis tool for high-temperature resistant transparencies
[AD-P003236] 17 p2598 N84-26649
BABKOFF, H.
Complex demodulation: A technique for assessing periodic components in sequentially sampled data
[AD-P003845] 24 p3939 N84-34933
BABONNEAU, D.
Analysis of experiments on X-ray emission from laser-irradiated targets
[DE84-751157] 24 p3909 N84-34761
BABU, A. J. G.
Computer aided layout of procedure information for training and job aiding
[AD-A139347] 14 p2205 N84-24236
BABU, G. N.
Radiolysis of resist polymers. 1: Poly(methyl-alpha-haloacrylates) and copolymers with methylmethacrylate
[AD-A131864] 03 p0356 N84-12315
Radiolysis of resist polymers. 2: Poly(haloalkylmethacrylates) and copolymers with methylmethacrylate
[AD-A132095] 04 p0507 N84-13321
BABUSKA, I.
Feedback and adaptive finite element solution of one-dimensional boundary value problems
[AD-A136018] 09 p1378 N84-19000
The postprocessing technique in the finite element method the theory and experience
[AD-A140953] 18 p2925 N84-28551
Finite element methods for the solution of problems with rough input data
[AD-A140955] 18 p2925 N84-28552
The factorization method for two points boundary value problems for ODE's and its relation to the finite difference method
[AD-A141829] 19 p3088 N84-29604
An adaptive method of lines with error control for parabolic equations of the reaction-diffusion type
[AD-A142253] 19 p3090 N84-29616
BACA, L. S.
Error estimators for stiff differential equations
[DE84-003331] 07 p1064 N84-16901
Boolean computation of optimum hitting sets
[DE84-012920] 20 p3283 N84-30842
BACA, T. J.
Alternative shock characterizations for consistent shock-test specification
[DE84-000482] 04 p0549 N84-13619
Evaluation and control of conservatism in drop table shock tests 10 p1509 N84-19879
BACCHIALONI, F. L.
Orbiting geophysics laboratory experiment
[AD-A131950] 03 p0342 N84-12218
BACH, L.
Blade loss transient dynamics analysis with flexible bladed disk
[NASA-CR-168176] 04 p0486 N84-13193
BACHALO, W. D.
Analysis and testing of a new method for drop size and velocity measurements using laser light scatter interferometry 11 p1608 N84-20529
Analysis and testing of a new method for drop size measurement using laser scatter interferometry
[NASA-CR-174636] 21 p3405 N84-31595
Flow-field measurements on an airfoil with an oscillating trailing-edge using holographic interferometry
[NASA-CR-166604] 24 p3852 N84-34430
BACHE, L. B.
Surface wave path corrections, deterministic discrimination and body wave attenuation
[AD-A133574] 06 p0878 N84-15714
BACHMAIER, C.
Study on optimal tracking strategy
[GMV-211/83] 08 p1113 N84-17243
BACHOR, E.
System definition Roentgensatellit, phase B 1.2
[BMFT-FB-W-83-010] 03 p0342 N84-12219
BACHSTEIN, F.
Results of a slant range visibility field test in Munich-Reim
[DFVLR-MITT-83-09] 08 p1102 N84-17169
BACKSTROM, R. C.
Grad-B drift transport of high current electron beams
[DE84-000115] 04 p0602 N84-13977
BACON, B. J.
An optimal control approach to pilot/vehicle analysis and Neal-Smith criteria
[NASA-CR-170416] 12 p1771 N84-21551
BACON, L. D.
An evaluation of the broadband direction finding capabilities of array signal processing techniques
05 p0665 N84-14368
An investigation into anti-swirl devices for s-shaped air intakes
[BU-293] 15 p2256 N84-24549
BACON, R. J.
Characterization of the microstructures of various materials
[AD-A141946] 20 p3152 N84-30017
BADALOVA, I. M.
Allomonades: New group of vibrionaceae family microorganisms 17 p2742 N84-27410
BADAVI, F. F.
Data reduction programs for a laser radar system
[NASA-CR-173152] 07 p0992 N84-16430
BADDAR, H.
A spectrum of methane from 700 to 5500 cm-1
[NASA-CR-175360] 07 p0969 N84-16280
BADHWAR, G.
A study of the relation between crop growth and spectra reflectance parameters 12 p1831 N84-21936
A study of the relation between crop growth and spectra reflectance parameters 12 p1833 N84-21949
Spectral characterization of biophysical characteristics in a boreal forest: Relationship between Thematic Mapper band reflectance and leaf area index for Aspen
23 p3766 N84-33875
BADKHEN, V. V.
Physiological responsiveness of operators in relation to work and homeostatic disorders
18 p2894 N84-28365
BADLANI, M. L.
Development of a simplified procedure for rocket engine thrust chamber life prediction with creep
[NASA-CR-168261] 10 p1450 N84-19472
BADO, P.
Experimental picosecond transient spectra for i2 photodissociation in liquids
[AD-A134371] 07 p0969 N84-16282
Five times compression of mode-locked argon ion laser pulses
[AD-A139635] 15 p2339 N84-25040
BADRAN, W. A.
A computer package for designing pH regulation systems 15 p2391 N84-25344

BAECHER, G. B.
Acoustic data and uncertainty in geotechnical site characterization offshore
[PB84-100908] 08 p1196 N84-17801
BAECHLE, E.
Monolithic integrated analog switching arrays
[BMFT-FB-T-83-146] 02 p0216 N84-11418
BAECKER, R.
Graphic design of program text
[DE84-008162] 15 p2393 N84-25360
BAECKLIN, L.
A system for measuring fluxes of trace gases to and from soil and vegetation with a chamber technique
[CM-61] 07 p1028 N84-16662
BAECKLUND, L.
Computer program for treating and compiling ionospheric data
[FOA-C-30354-E] 15 p2391 N84-25346
BAER, D.
The 1983 Goddard Space Flight Center Battery Workshop
[NASA-CP-2331] 23 p3735 N84-33668
BAER, D. R.
Improved corrosion resistance of fine-grained 304 stainless steel in H20-CO-CO2-N2 atmospheres
[DE83-013755] 01 p0046 N84-10295
Radiation-induced phosphorus segregation in austenitic and ferritic alloys
[DE84-000903] 04 p0504 N84-13302
Solving corrosion problems with surface analysis
[DE84-008652] 20 p3154 N84-30025
BAER, E.
Epitaxial polymerization as a molecular engineering technique
[AD-A131405] 02 p0200 N84-11302
Crack propagation in polystyrene under fixed elongation
[AD-A134749] 08 p1138 N84-17399
BAER, F.
Land-surface influences on weather and climate
[NASA-CR-173595] 16 p2529 N84-26234
Applications of satellite observations to the radiation budget, fluxes and the general circulation
[PB83-256818] 17 p2735 N84-27383
BAER, J.
XeF pumped Tm:YLF laser scaling
[AD-A140004] 15 p2339 N84-25041
BAER, M. R.
Study of Deflagration-to-Detonation Transition (DDT) in the granular explosive, CP
[DE84-009500] 15 p2305 N84-24828
Thin flame model for reactive flow in porous materials
[DE84-011406] 20 p3150 N84-30002
BAER, R. L.
Ultrasonic transducer arrays for nondestructive testing
11 p1645 N84-20757
A theory for cross-coupling in ultrasonic transducer arrays
[DE84-010327] 20 p3189 N84-30259
BAES, C. F., JR.
Role of the oceans in the carbon cycle
[DE83-015530] 02 p0258 N84-11688
Chemical and biological processes in CO/sub 2-ocean models
[DE84-003304] 08 p1182 N84-17702
BAETA, R. D.
Steady state creep in quartz
[DE84-701196] 24 p3912 N84-34776
BAETJER, D.
Reports from the German Meteorological Service. Number 164: The climate in selected areas of the Federal Republic of Germany, Bremen
[ISBN-3-8848-210-5] 19 p3056 N84-29392
BAETZ, O.
Transponder optimization by computer simulation
[MBB-UR-617-83-O] 16 p2563 N84-26445
BAETZNER, R.
Laser light scattering at the POSEIDON plasma focus device
10 p1584 N84-20384
BAGANOFF, D.
Advanced diagnostics and instrumentation for chemically reactive flow systems
[AD-A131814] 03 p0346 N84-12251
Study of the mapping of Navier-Stokes algorithms onto multiple-instruction/multiple-data-stream computers
[NASA-TM-85945] 19 p3080 N84-29544
BAGBY, M. O.
Vegetable Oil as Diesel Fuel: Seminar 3
[PB84-151323] 14 p2133 N84-23782
BAGDA, E.
The mechanics of bridging cracks
[BLL-T6144/LRST652/83(9022.048)]
01 p0057 N84-10369
BAGDASARYAN, S. T.
Angle resolution of wideband signals received by two slightly diverse linear antenna arrays
22 p3565 N84-32582
BAGGEROER, A. B.
Digital signal processing 22 p3684 N84-33357
BAGHERIAN, A. B.
Airborne antenna pattern calculations
[NASA-CR-173284] 08 p1143 N84-17436
BAGNALL, C.
Perspective of the corrosive behavior of lithium and sodium
[DE84-011635] 21 p3367 N84-31362
BAGRASH, F. M.
Figural aftereffects: An explanation in terms of multiple mechanisms in the human visual system
[AD-A132066] 03 p0415 N84-12715
BAGROVA, N. D.
EEG informational content in prediction of work performance 18 p2895 N84-28368
BAGWELL, J. W.
A system for the simulation and evaluation of satellite communication networks
[NASA-TM-83531] 04 p0517 N84-13400
BAHAR, E.
Scattering and depolarization of electromagnetic waves-full wave solutions
[AD-A138349] 12 p1807 N84-21782
Scattering and depolarization of electromagnetic waves--full wave solutions
[AD-A139810] 15 p2321 N84-24934
Optimum backscatter cross section of the ocean as measured by synthetic aperture radars
17 p2714 N84-27276
BAHCALL, N.
Research in extragalactic astrophysics
[NASA-CR-173608] 16 p2577 N84-26536
V-V compact group of galaxies
[NASA-CR-173609] 16 p2577 N84-26537
BAHER, L. Y.
Conservation laws for some separable gyroscopic dynamical systems 15 p2313 N84-24876
BAHILL, A. T.
Gaze control during horizontal and vertical target tracking
[AD-A144484] 24 p3938 N84-34926
BAHIMAN, H.
Unidirectional flexural pivot
[NASA-CASE-GSC-12622-1] 03 p0383 N84-12492
BAHLER, D.
The representation of manipulable solid objects in a relational database 12 p1871 N84-22190
BAHLS, T. A.
Chemiluminescent/laser diode measurement technique intercomparison and captive air measurement program
[PB84-134485] 11 p1661 N84-20839
BAHR, C. C.
Direct determination of surface structures from photoelectron diffraction
[DE84-002572] 05 p0663 N84-14360
Angle-resolved photoemission extended fine structure
[DE84-002899] 08 p1236 N84-18080
BAHR, D.
Chemical and isotopic measurements of micrometeoroids by secondary ion mass spectrometry (A0187-2) 15 p2276 N84-24670
BAHR, L. M., JR.
Ecological models of the Mississippi Deltaic Plain Region: Data collection and presentation
[PB83-239012] 02 p0245 N84-11604
BAHRAMI, K.
Photovoltaic power conditioning subsystem: State of the art and development opportunities
[NASA-CR-173458] 12 p1842 N84-22009
BAI, T.
Characteristics of gamma-ray line flares
[NASA-CR-174608] 04 p0621 N84-14098
BAI, Y.
Fracture initiation in glass-reinforced plastics under impact compression
[OUEL-1516/84] 19 p3037 N84-29265
BAIER, R. E.
Mitigation of biofouling using coatings
[DE84-006112] 11 p1693 N84-21041
BAIK, J. M.
Microstructural and mechanical aspects of fatigue crack initiation and growth in a 2048 aluminum alloy
08 p1130 N84-17347
Ductile-brittle transition temperature measurement of temper embrittled Ni-Cr steels by means of small punch tests
[DE84-012833] 20 p3158 N84-30054
BAIKOV, V. S.
The effect of technological parameters on the heterogeneity of continuously cast slab
[BLL-M-35095-(5828.4)] 01 p0042 N84-10271
BAIL, I.
Executive summary, aerothermal modeling program, phase 1
[NASA-CR-174602] 03 p0348 N84-12263
BAILEY, A. D.
A Gerdien condenser system for measuring stratospheric charged particle densities
[AD-A143317] 22 p3623 N84-32958
BAILEY, B.
High yield wind energy resources in the mid-Hudson River basin
[PB84-184951] 20 p3234 N84-30530
BAILEY, B. K.
Carbon-13 and proton nuclear magnetic resonance analysis of shale-derived refinery products and jet fuels and of experimental referee broadened-specification jet fuels
[NASA-CR-174761] 22 p3561 N84-32552
BAILEY, B. R.
Organic azides as jet fuel additives: Synthesis of azides and micro-explosion characteristics of droplets
20 p3144 N84-29963
BAILEY, C.
TIS: An intelligent gateway computer for information and modeling networks. Overview
[DE83-017986] 04 p0616 N84-14067
BAILEY, C. R.
High pressure LOX/natural gas staged combustion technology 20 p3138 N84-29927
BAILEY, E. E.
Deregulating the airlines: An economic analysis
[PB83-250019] 04 p0617 N84-14070
BAILEY, F. J.
Range safety display system upgrade
[AD-A133789] 05 p0642 N84-14225
BAILEY, G. C.
Integrating IR detector imaging systems
[NASA-CASE-NPO-15805-1] 18 p2932 N84-28590
BAILEY, I. L.
Experimental studies relating environmental lighting and flicker to visual fatigue in VDT operators
[DE83-016316] 03 p0419 N84-12738
BAILEY, J.
Sidelobe cancelling techniques used in wideband systems 13 p1976 N84-22822
Generalized adaptive node concept
13 p1977 N84-22833
BAILEY, J. M.
Tokamak plasma position dynamics and feedback control
[DE84-004424] 10 p1586 N84-20393
BAILEY, M. C.
Analysis of rectangular microstrip antennas
[NASA-TP-2276] 11 p1642 N84-20735
An investigation of the existence of a surface water layer on aircraft radomes during simulated flight in heavy precipitation
[NASA-TM-85813] 19 p3003 N84-29035
Development of a 611 MHz feed for a 9-meter reflector
[NASA-TM-86300] 23 p3730 N84-33641
BAILEY, M. J.
The vectorization of a ray tracing program for image generation 10 p1561 N84-20231
The virtual front end: Towards better management of solid geometric data 12 p1874 N84-22213
BAILEY, R. A.
Efficient large-scale finite-element computations in a CRAY environment
[DE83-014946] 06 p0896 N84-15818
BAILEY, R. E.
Flight test experience with pilot-induced-oscillation suppression filters
[NASA-TM-86028] 07 p0958 N84-16213
BAILEY, V. L.
Pulsed power for racetrack induction accelerators
[AD-A143289] 22 p3653 N84-33157
BAILEY, W. C.
Low heat loss laser combustion chamber
[AD-D011107] 22 p3600 N84-32799
BAILEY, W. J.
Cryogenic Fluid Management Experiment (CFME) trunnion verification testing
[NASA-CR-168310] 07 p0985 N84-16381
BAIN, K. R.
Experimental and theoretical studies of creep crack growth
[AD-A141193] 18 p2814 N84-27862
BAIN, L. J.
Tests for an increasing trend in the intensity of a Poisson process: A power study
[AD-A131213] 02 p0265 N84-11867
BAIN, P. H.
An industry test program for interlayer equivalency
[AD-P003200] 17 p2592 N84-26613

BAINBRIDGE, B. L.
Transient-temperatures-measurement errors
[DE83-006300] 01 p0085 N84-10549
Rectangular heat source on a semi-infinite solid: An analysis of a thin film heat flux gage
[DE84-012234] 22 p3599 N84-32796
BAINES, D. W. T.
Observation of the interstellar ice grain feature in the Taurus molecular clouds
[DE84-004316] 10 p1595 N84-20453
Observations of the interstellar ice grain feature in the Taurus molecular clouds 16 p2570 N84-26493
Observations of the interstellar ice grain feature in the Taurus molecular clouds 18 p2948 N84-28691
BAINUM, P. M.
The dynamics and control of large flexible space structures, 6
[NASA-CR-174450] 01 p0027 N84-10173
Environmental effects on the dynamics and control of an orbiting large flexible antenna system
[NASA-CR-175448] 11 p1623 N84-20627
Dynamics and control of flexible orbiting systems 14 p2245 N84-24481
The dynamics and control of large flexible space structures, part 7
[NASA-CR-173781] 19 p2981 N84-28892
BAIRD, A. M.
The role of simulation in high technology missile applications
[AD-A138277] 12 p1778 N84-21601
BAIRD, C.
Acid precipitation in southeastern Wyoming
[PB84-132521] 10 p1533 N84-20039
BAIRD, C. B.
A concept for mission-oriented planning for system acquisition at the Defense Communications Agency
[AD-P002823] 13 p2061 N84-23368
BAIRD, J.
Ingres to dBASE and financial spreadsheet program packages
[AD-A139626] 15 p2391 N84-25351
BAIRD, J. A.
Human factors of air operations in the South Atlantic campaign 11 p1699 N84-21080
BAISCH, F.
Cardiovascular reactions on orthostasis and weightlessness 17 p2744 N84-27424
BAISDEN, A. G.
Distribution of visual characteristics of Naval aviation personnel
[AD-A135930] 10 p1547 N84-20144
BAJPAI, S. N.
MSW (magnetostatic wave) variable time-delay techniques
[AD-A133770] 05 p0753 N84-14941
BAK, P.
Universality and fractal dimension of mode locking structure in systems with competing periodicities
[DE83-017352] 03 p0390 N84-12545
Commensurability, chaos, and the devil's staircase
[DE83-013280] 03 p0454 N84-12987
BAKALINSKAYA, N. D.
Low-cycle fatigue of VT1-0 alloy and changes in its fine structure at temperatures of 293-4.2 deg K 23 p3708 N84-33509
BAKALYAR, D. M.
Shot noise limited detection of OH using the technique of laser induced fluorescence
[NASA-CR-175433] 11 p1662 N84-20844
BAKER, A. F.
Sodium heat transfer system modeling
[DE84-002051] 07 p1004 N84-16509
BAKER, A. J.
Progress on a generalized coordinates tensor product finite element 3DPNS algorithm for subsonic
[NASA-CR-172256] 07 p1002 N84-16495
A tensor constitutive equation for turbulent flow 15 p2314 N84-24888
Finite elements in computational fluid dynamics 16 p2491 N84-25982
BAKER, B.
Development of molten carbonate fuel cell technology
[DE84-004856] 15 p2364 N84-25163
BAKER, B. J.
Numerical simulation of the forcing of monsoon surges by mid-latitude baroclinic waves
[AD-A136274] 09 p1348 N84-18807
BAKER, C. B.
Measurement and analysis of diffuse solar irradiance 13 p2091 N84-23546
BAKER, C. E.
Research on aviation fuel instability 14 p2108 N84-23642
Research on aviation fuel instability 15 p2289 N84-24734
BAKER, C. R.
Capacity of mismatched Gaussian channels
[AD-A134982] 08 p1145 N84-17455
Study of systems and technology for liquid hydrogen production independent of fossil fuels
[NASA-CR-173422] 13 p1965 N84-22768
Capacity of generalized mismatched Gaussian channels
[AD-A141399] 19 p3083 N84-29569
BAKER, D. A.
Role of magnetic reconnection phenomena in the reversed-field pinch
[DE84-007470] 19 p3108 N84-29748
Observations of ramped current operation in ZT-40M
[DE84-015076] 23 p3829 N84-34286
BAKER, D. J.
Worldwide flight and ground-based exposure of composite materials 20 p3145 N84-29971
Ground exposure of composite materials for helicopters
[NASA-TM-86311] 24 p3879 N84-34577
BAKER, D. N.
Implications of the 1100 UT 22 March, 1979 CDAW 6 substorm event for the role of magnetic reconnection in the geomagnetic tail
[DE84-004335] 10 p1537 N84-20071
Particle and field signatures of substorms in the near magnetotail
[DE84-003777] 11 p1683 N84-20984
A determination of the charge state of energetic magnetospheric ions by the observation of drift echoes
[AD-A143181] 22 p3623 N84-32954
BAKER, D. R.
Buildup and sustainment of 10(13) and cm(-3) plasma by ICRF in RFC-XX
[IPPJ-653] 10 p1580 N84-20356
BAKER, D. S.
Advanced strain-gage pressure transducer
[AD-A136063] 09 p1303 N84-18518
BAKER, D. W.
An introduction to geometric programming
[AD-P002962] 14 p2200 N84-24202
BAKER, E. G.
Methanol production by catalytic gasification of wood
[DE83-013744] 01 p0053 N84-10341
BAKER, G. A., JR.
Family of almost periodic Schroedinger operators
[DE83-017308] 11 p1717 N84-21199
BAKER, G. R.
Boundary-integral simulations of rayleigh-taylor instability in ideal magnetohydrodynamics
[AD-A131667] 03 p0444 N84-12920
BAKER, H. H.
Preliminary DSRS design
[AD-A138890] 14 p2169 N84-23995
BAKER, J.
Public response to hurricane probability forecasts
[PB84-156658] 14 p2182 N84-24077
BAKER, J. R.
The United Kingdom SATMaP program
[E84-10002] 04 p0551 N84-13627
The use of thematic mapper data for land cover discrimination: Preliminary results from the UK SATMaP programme
[E84-10038] 04 p0551 N84-13631
The use of Thematic Mapper data for land cover discrimination: Preliminary results from the UK Satmap programme 20 p3216 N84-30428
BAKER, Q. A., JR.
Alternative fuels for medium-speed diesel engines (AFFMSDE) program: Slurries, emulsions, and blended-fuel extenders; cylinder wear measurements, staged injection
[DE84-000524] 04 p0510 N84-13340
BAKER, R. G.
Investigation of multiple controller system efficiency as applied to the CSDLI model
[AD-A144597] 24 p3949 N84-35002
BAKER, R. L.
Higher order numerical simulations of the Knudsen layer
[AD-A131538] 02 p0190 N84-11234
BAKER, R. R.
Ceramic life prediction methodology - hot spin disc life program
[AD-A134783] 08 p1138 N84-17400
BAKER, R. W.
Wind energy assessment studies in the Goodnoe Hills and Cape Blanco areas
[DE84-010087] 19 p3059 N84-29409
Regional Wind Energy Assessment Program report. Appendix: Wind statistics summaries
[DE84-011835] 21 p3448 N84-31876
Regional wind energy assessment program
[DE84-011832] 21 p3448 N84-31878
Wake studies at the flowind vertical axis wind turbine generator site
[DE84-014837] 23 p3691 N84-33392
BAKER, V. R.
Fluvial erosion of impact craters: Earth and Mars 13 p2083 N84-23494
The Corfu landslide: Analog to giant landslides on Mars 13 p2086 N84-23513
BAKER, W. D.
Distributed processing tools definition. Volume 2: Application of software engineering technology
[AD-A137687] 11 p1704 N84-21106
BAKER, W. E.
Simulation studies of proposed observing systems and their impact on numerical weather prediction 12 p1850 N84-22050
FGGE data impact studies in the Southern Hemisphere 12 p1850 N84-22054
SASS wind forecast impact studies using the GLAS and NEPRF systems: Preliminary conclusions 12 p1851 N84-22055
The impact of scatterometer wind data on global weather forecasting 17 p2720 N84-27314
BAKER, W. M., II
APL/JHU free flight tests of the general purpose heat source module. Testing: 5-7 March 1984
[DE84-011065] 20 p3299 N84-30948
BAKHAREV, V. D.
Dynamics of functional status and subjective sensations in process of heat adaptation 21 p3456 N84-31931
BAKISH, R.
Center for the transfer of desalination technology
[PB83-223057] 01 p0039 N84-10246
BAKKER, H.
Information processing for use in the treatment of severely physically handicapped persons 20 p3264 N84-30711
BAKKER, P. G.
On bifurcation phenomena in conical flow patterns
[VTH-LR-378] 10 p1495 N84-19779
BAKSHI, I. S.
Noise of 1/f form in polycrystalline aluminum films 17 p2633 N84-26843
BAKSHI, P.
Electrostatic ion-cyclotron waves in magnetospheric plasmas: Non-local aspects
[NASA-CR-174501] 05 p0749 N84-14917
BAKSHT, F. B.
Regional natural electric fields and their prospecting significance 18 p2864 N84-28181
BAKTHAVATHSALAM, T. N.
Suppression of interference flutter by composite tailoring 05 p0632 N84-14155
BAKUNOV, V. S.
Creep of LaCrO-3Cr ceramic-metallic material 24 p3877 N84-34568
BALABANOV, V.
Studies of proteinograms in dermatophytes by disc electrophoresis. 1. Protein bands in relation to growth phase
[NASA-TM-77095] 07 p1042 N84-16755
Studies on proteinograms in dermatorphytes by disc electrophoresis. Part 2: Protein bands of keratinophilic fungi
[NASA-TM-77096] 10 p1545 N84-20127
BALABURDIN, V. V.
Technical features of robotized machining system viewed 24 p3892 N84-34643
BALABUYEV, A. A.
Modeling anisotropic properties of media with oriented fractures 17 p2706 N84-27234
BALACHANDRA, R.
Factors explaining decisions to terminate or continue an R and D project, executive summary
[PB83-256602] 05 p0758 N84-14971
Factors explaining decisions to terminate or continue an R and D project
[PB83-256594] 05 p0758 N84-14972
BALADI, G. Y.
An objective waveform comparison technique
[AD-A136130] 09 p1315 N84-18596
BALAGEZYAN, D.
Research in man-machine interaction discussed 13 p2065 N84-23393
BALAKHOVSKIY, I. S.
Changes in blood urea content under hypokinetic conditions 02 p0260 N84-11703
BALAKRISHNAN, A. V.
Research on boundary feedback and control theories, 1978 - 1983
[AD-A136531] 09 p1376 N84-18987
BALANDIN, V. S.
Individual responses to combined heat and physical load 18 p2896 N84-28374

BALAS, E.
Disjunctive programming and a hierarchy of relaxations for discrete optimization problems
[AD-A132004] 03 p0425 N84-12784
On the facial structure of scheduling polyhedra
[AD-A136983] 10 p1591 N84-20427
BALASCIO, J. F.
Manufacturing technology for high quality swept-culture growth quartz
[AD-A133500] 06 p0923 N84-15998
BALASIS, M.
A 500-watt solid-state RF power amplifier AM-7209( )/VRC
[AD-A129327] 01 p0071 N84-10463
BALASUBRAMANIAN, R.
On Waring's problem g (4) or = 20
03 p0425 N84-12781
Drag of two-dimensional small-amplitude symmetric and asymmetric wavy walls in turbulent boundary layers
[NASA-TP-2318] 16 p2486 N84-25944
BALAVAGE, J. R.
Effect of calcium hydroxide and carbonates on IGA and SCC of Alloy 600
[DE83-902229] 01 p0045 N84-10286
BALCH, C. D.
Hybrid perturbation/Bubnov-Galerkin technique for nonlinear thermal analysis
[NASA-TP-2145] 13 p1988 N84-22907
BALCH, J. W.
Gate array layout using CADDS 2
[DE83-014840] 01 p0075 N84-10491
BALCOMB, J. D.
Convective heat transfer inside passive solar buildings
16 p2517 N84-26154
BALD, W. B.
A proposed method for model temperature conditioning in cryogenic wind tunnels
[OUEL-1480/83] 07 p0960 N84-16224
BALDINI, A. A.
Applicability of stellar rate for astronomic position determination
[AD-A135845] 10 p1595 N84-20452
BALDWIN, A. R.
Multicell LiSOCl sub 2 reserve battery
[DE84-012812] 21 p3395 N84-31542
BALDWIN, B. A.
Antiwear additive mechanicsms in sliding contacts
14 p2154 N84-23906
BALDWIN, D.
Effect of diabatic and frictional processes on frontal circulations
[PB84-104074] 08 p1193 N84-17778
BALDWIN, D. B.
Graphics workstation switching unit
[DE84-011626] 20 p3275 N84-30788
BALDWIN, D. E.
Status of tandem-mirror confinement
[DE83-017369] 03 p0448 N84-12948
Thermal barriers: Their purpose and functioning
[DE83-017365] 03 p0449 N84-12954
Tandem mirror fusion research
[DE84-005133] 11 p1738 N84-21339
BALDWIN, D. L.
Contribution to the 6th annual report on special purpose materials for magnetically confined fusion reactors: Solid breeder materials
[DE84-008181] 15 p2411 N84-25470
Strategies for analytical applications and implementation of a multi-purpose laboratory robot
[DE84-012379] 20 p3198 N84-30314
BALDWIN, D. M.
Real-time CGSI (Computer Generated Synthesized Imagery)-single pipeline processor
[AD-P003480] 21 p3512 N84-32247
BALDWIN, E. E.
Reference flat pulse generator
[PB84-162163] 17 p2672 N84-27030
BALDWIN, F. W.
Earthquakes in the United States, January - March 1982
[USGS-CIRC-896-A] 11 p1677 N84-20945
BALDWIN, J. A.
Spectrophotometry of 2 complete samples of flat radio spectrum quasars
[NASA-CR-175343] 07 p1088 N84-17077
BALDWIN, J. F.
A fuzzy relational inference language for expert systems
[AD-P002380] 14 p2196 N84-24171
BALDWIN, N. J.
Measurement of velocity and displacement of a transvarestraint testing machine
[MRL-TN-473] 05 p0683 N84-14493
A torsion testing machine for measurement of shear strength of foam
[AD-A133027] 05 p0693 N84-14552
BALDWIN, R. G.
Wind and wave summaries for selected U.S. Coast Guard operating areas
[AD-A130647] 01 p0108 N84-10702
BALEBANOV, B. M.
Plasma processes in the region of electron beam injection from a high altitude payload
05 p0637 N84-14194
Plasma processes caused by an electron beam injected from a high altitude rocket probe. Part 2: Studies of beam-plasma discharge
[IWF-8303] 17 p2728 N84-27364
BALEBANOV, V.
Research continues with Intercosmos-Bolgariya-1300 satellite
12 p1775 N84-21577
BALEBANOV, V. M.
Effects of small-scale plasma disturbance on the IKB-1300 spacecraft potential
[PR-839] 08 p1109 N84-17208
BALES, K. S.
Structures and Dynamics Division research and technology plans for FY 1894 and accomplishments for FY 1982
[NASA-TM-85828] 19 p3034 N84-29245
BALES, T. T.
Metal matrix composite structural panel construction
[NASA-CASE-LAR-12807-1] 02 p0187 N84-11214
Curved cap corrugated sheet
[NASA-CASE-LAR-12884-1] 23 p3700 N84-33450
BALESTRA, P. E. L.
The descaling of 3Cr12 steel
06 p0817 N84-15322
BALEY, H. C.
Direct biological effects of increased atmospheric carbon dioxide levels
[PB83-224360] 01 p0115 N84-10749
BALFE, C. A.
Electrochemical and spectroelectrochemical studies of some coordination compounds in high oxidation states
[DE84-006637] 14 p2123 N84-23727
BALGOVIND, R.
Documentation of the GLAS fourth order general circulation model. Volume 1: Model documentation
[NASA-TM-86064-VOL-1] 14 p2179 N84-24048
Documentation of the GLAS fourth order general circulation model. Volume 2: Scalar code
[NASA-TM-86064-VOL-2] 14 p2179 N84-24049
Documentation of the GLAS fourth order general calculation model. Volume 3: Vectorized code for the Cyber 205
[NASA-TM-86064-VOL-3] 14 p2179 N84-24050
BALGOVIND, R. C.
On the effect of using the Shapiro filter to smooth winds on a sphere
12 p1853 N84-22074
BALICK, L. K.
Study of Thematic Mapper and Multispectral Scanner data applications
20 p3215 N84-30421
BALIEIRO, M. G.
Geologic survey in the south-central region of Mato Grosso
[E84-10039] 04 p0551 N84-13632
Project SERGE: Brazil referential field data for the SIR-A experiment
[INPE-2973-NTE/210] 17 p2711 N84-27259
Field studies in the structural society project: Mineralized lineaments
[INPE-2876-NTE/205] 17 p2726 N84-27352
BALIKHIN, V. S.
On the electrochemical precipation of titanium coatings
[BLL-OA-TRANS-3028-(6196.3)]
01 p0043 N84-10274
BALIUNAS, S. L.
Combined ultraviolet studies of astronomical sources
[NASA-CR-175234] 08 p1242 N84-18121
BALIYEV, W. K.
Pulse and interval distributor with sensor control
17 p2637 N84-26867
BALIZER, E.
Polymeric microelectronics
[AD-A130523] 01 p0049 N84-10317
BALK, P.
Information processing for use in the treatment of severely physically handicapped persons
20 p3264 N84-30711
BALKANSKI, M.
Solid state batteries, literature survey, analysis of pertinent results and prospective for further research
[AD-A144252] 24 p3897 N84-34679
BALKOWSKI, C.
Far UV excess and gas content of SO galaxies
24 p3971 N84-35144
BALL, C. L.
End-wall boundary layer measurements in a two-stage fan
07 p0957 N84-16208
BALL, D.
TM digital image products for applications
[E84-10178] 21 p3428 N84-31749
TM digital image products for applications
[E84-10183] 21 p3429 N84-31754
BALL, D. A.
State-of-the-art survey of existing knowledge for the design of ground-source heat pumps
[DE84-002988] 07 p1003 N84-16504
BALL, D. L.
Radiometric calibration and processing procedure for reflective bands on LANDSAT-4 protoflight Thematic Mapper
20 p3206 N84-30366
TM digital image products for applications
20 p3206 N84-30371
Pre-launch absolute radiometric calibration of LANDSAT-4 protoflight Thematic Mapper
20 p3207 N84-30373
Radiometric calibration and processing procedure for reflective bands on LANDSAT-4 protoflight Thematic Mapper
[E84-10056] 21 p3426 N84-31731
Prelaunch absolute radiometric calibration of the reflective bands on the LANDSAT-4 protoflight Thematic Mapper
[E84-10180] 21 p3428 N84-31751
Prelaunch absolute radiometric calibration of LANDSAT-4 protoflight Thematic Mapper
[E84-10181] 21 p3429 N84-31752
Characterization of radiometric calibration of LANDSAT-4 TM reflective bands
[E84-10182] 21 p3429 N84-31753
BALL, E. F.
EMC (electromagnetic compatibility) system test and analysis interface
[AD-A136064] 09 p1303 N84-18519
BALL, I.
Aerothermal modeling program, phase 1
[NASA-CR-168243-VOL-1] 03 p0348 N84-12264
Aerothermal modeling program, phase 1
[NASA-CR-168243-VOL-2] 03 p0348 N84-12265
BALLAGH, R. J.
Polarization switching with J=1/2 to J=1/2 atoms in a ring cavity
14 p2237 N84-24423
BALLANTINE, R. B.
The development and fabrication of an implantable, multiplexed, semiconductor multielectrode array
[AD-A136788] 13 p1986 N84-22895
BALLANTYNE, J.
Microwave, semiconductor research - materials, devices and circuits
[AD-A140052] 15 p2413 N84-25489
BALLARD, G. K.
Electroless-plating technique for fabricating thin-wall convective heat-transfer models
[NASA-TP-2349] 21 p3399 N84-31561
BALLARD, R. D.
Panel 1B: Assessment and scientific understanding of hard mineral resources in the EEZ
16 p2866 N84-28195
BALLARD, R. F., JR.
Cavity detection and delineation research. Report 5: Electromagnetic (Radar) techniques applied to cavity detection
[AD-A132923] 05 p0670 N84-14407
BALLAS, J. A.
The effect of structured contextual tones on psychophysical frequency discrimination
[AD-A135433] 09 p1363 N84-18903
BALLATO, A.
Resonator insensitive to paraxial accelerations
[AD-D010998] 19 p3018 N84-29130
Frequency synthesizer
[AD-D011203] 24 p3903 N84-34714
BALLDIN, U. I.
Improved G-Tolerance with assisted positive pressure breathing and anti-gravity suit with ready pressure and faster filling
[FOA-A-58002-H1] 19 p3071 N84-29486
BALLHAUS, W. F., JR.
Computational aerodynamics and supercomputers
[NASA-TM-85887] 07 p0946 N84-16139
BALLING, L. C.
Alkali-SCl2 chemiluminescence: Vibrational population inversion in the B state of S2
[AD-A143639] 23 p3754 N84-33794
BALLONE, P.
Theory of the interface between a classical plasma and a hard wall
[DE84-701221] 24 p3966 N84-35111
BALLOU, M. L.
FLOCHT: A system of FORTRAN codes for computer drawn flow charts and diagrams
[DE84-007569] 15 p2393 N84-25362

BALLUFFI, R. W.
Simple structural unit model for core-dependent properties of symmetrical tilt boundaries
[DE83-012620] 01 p0044 N84-10284
Structural unit/grain boundary dislocation model for grain boundary structure
[DE84-003167] 10 p1589 N84-20416
Study of the structure of grain boundaries in metals
[DE84-005493] 11 p1635 N84-20689
Detection of expansion at large angle grain boundaries using electron diffraction
[DE84-007889] 15 p2414 N84-25496
On the hierarchy of interfacial dislocation structure
[DE84-014160] 23 p3719 N84-33573

BALMAIN, K. G.
Performance of antennas in plasma
03 p0365 N84-12377

BALMINO, G.
Somali current studied from SEASAT altimetry
17 p2719 N84-27307

BALODIS, V.
Development and fabrication of a high current, fast recovery power diode
[NASA-CR-168196] 04 p0524 N84-13443

BALOG, P. P.
Carbon dioxide sensor technology
[AD-A133688] 05 p0716 N84-14690

BALOGA, S.
Geomorphic clues to the Martian volatile inventory. 1: Flow ejecta blankets 13 p2079 N84-23474
Effusion rate, length, and area relationships for some lava flows on Hawaii and Mount Etna with planetary implications 13 p2080 N84-23482

BALOGH, A.
The magnetic-field investigation on ISPM
09 p1260 N84-18230
The ISPM cosmic-ray and solar-particle investigation
09 p1262 N84-18236

BALONA, L. A.
Correlated errors in a functional relationship: Estimation of the color term in the Period Luminosity-Color (PLC) for Long Magellanic Clouds (LMC) Cepheids
09 p1411 N84-19228

BALSA, T. F.
Free jet feasibility study of a thermal acoustic shield concept for AST/VCE application: Single stream nozzles
[NASA-CR-3758] 19 p3096 N84-29661

BALSIGER, H.
Observation of multiple ion beams in the magnetotail low latitude boundary layer. Evidence for a double H+ population
[IFSI-82-10] 03 p0409 N84-12676
The structure of the plasma sheet-lobe boundary in the Earth's magnetotail
[NASA-TM-85434] 03 p0463 N84-13049
The ISPM solar-wind ion composition spectrometer
09 p1261 N84-18232
Low energy (130 eV) oxygen ions at the geosynchronous orbit during the CDAW-6 event of March 22, 1979
[IFSI-83-17] 18 p2881 N84-28291

BALSLEY, B. B.
Solar control of winter mesospheric echo occurrence at Poker Flat, Alaska 17 p2686 N84-27102
Techniques for studying gravity waves and turbulence: Vertical wind speed power spectra from the troposphere and stratosphere obtained under light wind conditions
17 p2688 N84-27120
Capabilities and limitations of existing MST radars: Poker Flat 17 p2690 N84-27133
Design considerations for high-power VHF radar transceivers: Distributed versus single large transmitter
17 p2692 N84-27144
Full versus limited versus no steerability
17 p2693 N84-27155
Research status and recommendations from the Alaska workshop on gravity waves and turbulence in the middle atmosphere
[AD-A140939] 18 p2879 N84-28281

BALTAY, C.
Hadron-hadron collider group
[DE83-010704] 03 p0437 N84-12865
Review of properties of various types of calorimeters: High luminosity and high energy
06 p0911 N84-15917

BALTRUS, D. W.
Software Implemented Fault-Tolerant (SIFT) user's guide
[NASA-TM-86289] 23 p3817 N84-34199

BALUT, S. J.
US military aircraft cost handbook
[AD-A136035] 09 p1249 N84-18158

BALZA, R. M.
A distributed data base management facility for the CAD/CAM environment 12 p1690 N84-22305

BALZER, D. L.
Evolution and flight history of the Defense Meteorological Satellite Program (DMSP) propulsion module 20 p3137 N84-29917

BALZER, R.
Design of a project plan for the establishment of a lunar factory
[ILR-MITT-123] 10 p1435 N84-19379
Tools for specification validation and understanding
[AD-A141079] 19 p3074 N84-29506

BAMBERGER, A.
Numerical diffraction by a uniform grid
[DE84-012861] 22 p3646 N84-33121

BAMBERGER, E. N.
Status of understanding for bearing materials
15 p2342 N84-25060

BAME, S. J.
Multiple spacecraft observations of interplanetary shocks: Characteristics of the upstream ULF turbulence
03 p0470 N84-13097
Electron heating at interplanetary shocks
03 p0470 N84-13098
Solar wind minor ions: Recent observations
03 p0472 N84-13110
Spatial variation of iron abundance in the high speed solar wind, 1972 to 1976 03 p0473 N84-13113
Plasma properties of driver gas following interplanetary shocks observed by ISEE-3 03 p0474 N84-13123
Interaction of the plasma tail of comet Bradfield 1979L on 1980 February 6 with a possibly flare-generated solar-wind disturbance 03 p0475 N84-13126
ISEE observations of magnetopause reconnection: The energy balance 08 p1185 N84-17720
The ISPM solar-wind plasma experiment
09 p1261 N84-18231
Interaction of the plasma tail of comet Bradfield 1979L on 1980 February 6 with a possibly flare-generated solar-wind disturbance
[NASA-TM-85617] 17 p2777 N84-27632
Investigation of laminar shocks
[DE84-010074] 20 p3242 N84-30582

BAMFORD, A. C.
The use of reciprocal polar co-ordinates in passive tracking
[AD-P002906] 13 p1981 N84-22860

BAMFORD, S. G.
Computerised data acquisition and control methods as related to mechanisms testing 09 p1296 N84-18473

BAMJI, C.
Custom integrated circuits 22 p3684 N84-33361

BANAS, R. M.
Hybrid seal
[AD-D011083] 22 p3605 N84-32835

BANAS, R. P.
Lessons learned from the development and manufacture of ceramic reusable surface insulation materials for the space shuttle orbiters 01 p0025 N84-10158

BANASZAK, D.
Aircraft ground vibration test instrumentation system
[AD-P002894] 11 p1660 N84-20829

BAND, Y. B.
Optical bistability in nonlinear media an exact method of calculation 14 p2236 N84-24414

BANDA, S. S.
Design and robustness analysis of reduced order controllers for large flexible space vehicles
15 p2269 N84-24623

BANDEIRA, I. N.
Determination of composition profile for isomorphic binary alloys
[INPE-2813-RPE/438] 02 p0193 N84-11251
Photoconductor fabrication for operation in the thermal infrared
[INPE-2835-PRE/384] 02 p0298 N84-11952
Single Pb (1-x)Sn(x) Te crystal growth by vapor phase transport, with formation of a liquid/solid interface
[INPE-2811-PRE/369] 03 p0451 N84-12967

BANDHOLD, G.
Development of hardware and software for automatic optical surface inspection with laser scanners
[BMFT-FB-T-84-111] 23 p3755 N84-33805

BANDURIC, R. D.
Nonlinear analysis of Stirling engine thermodynamics
[DE84-013493] 21 p3507 N84-32219

BANDURSKI, R. S.
An attempt to localize and identify the gravity sensing mechanism of plants 09 p1352 N84-18833
The Alpha-Helix Concept: Innovative utilization of the Space Station Program. A report to the National Aeronautical and Space Administration requesting establishment of a Sensory Physiology Laboratory on the Space Station
[NASA-CR-175436] 11 p1621 N84-20610

BANDY, R.
Cathodic protection in simulated geothermal environments
[DE83-013690] 01 p0045 N84-10291
Initiation and propagation of stress-corrosion cracking of Alloy 600 in high-temperature water
[DE84-000623] 07 p0975 N84-16316
Intergranular failures of Alloy 600 in high temperature caustic environments
[DE84-010890] 20 p3155 N84-30032
Mechanisms of intergranular failures in Alloy 600 in high temperature environments
[DE84-010514] 20 p3155 N84-30033

BANDY, S.
Organometallic epitaxy for GaAs/AlGaAs microwave transistors and integrated circuits
[AD-A133569] 06 p0923 N84-16001

BANDYOPADHYAY, S.
Deformation and fracture studies of polymers in the scanning electron microscope 17 p2626 N84-26802

BANERDT, B.
Properties of simulated comet mantle
13 p2076 N84-23452
A possible source for the Martian circumpolar dune material 13 p2082 N84-23490

BANERJEE, P. K.
Three-dimensional stress analysis using the boundary element method 21 p3421 N84-31700

BANERJEE, S.
A review of crack closure
[AD-A142273] 19 p3036 N84-29261

BANERJEE, S. K.
Experimental studies of laterally seeded recrystallized polysilicon on silicon dioxide
[AD-A142382] 20 p3162 N84-30077

BANGERT, H.
Computer-Aided Engineering (CAE) in plastics technology
[CSIR-TRANS-1725] 21 p3370 N84-31380

BANGERT, L. H.
Effects of Nacelle configuration/position on performance of subsonic transport
[NASA-CR-3743] 02 p0174 N84-11144

BANGLIANG, Y.
A numerical analysis of the effect of inhomogeneity and wind speed shear on the vertical dispersion in the mesoscale range
[AD-A137188] 11 p1688 N84-21006

BANGS, T. L.
Toward an interpersonal paradigm for superior-subordinate communication
[AD-A135863] 10 p1551 N84-20166

BANK, R. E.
PLTMGC: A multi-grid continuation program for parameterized nonlinear elliptic systems
[DE84-010406] 21 p3474 N84-32017

BANKOV, L.
Effects of small-scale plasma disturbance on the IKB-1300 spacecraft potential
[PR-839] 08 p1109 N84-17208

BANKS, B.
Piezoelectric deicing device
[NASA-CASE-LEW-13773-2] 22 p3597 N84-32782

BANKS, B. A.
Intercalated graphite electrical conductors
01 p0010 N84-10064
Diamondlike flake composites
[NASA-CASE-LEW-13837-1] 13 p1953 N84-22695
Diamondlike flakes
[NASA-CASE-LEW-13837-2] 13 p1953 N84-22696
Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] 13 p2019 N84-23095
Sputtered coatings for protection of spacecraft polymers
[NASA-TM-83706] 17 p2626 N84-26803
Deposition of diamondlike carbon films
[NASA-CASE-LEW-14080-1] 19 p2996 N84-28966

BANKS, D. W.
Investigation of trailing-edge-flap, spanwise-blowing concepts on an advanced fighter configuration
[NASA-TP-2250] 09 p1251 N84-18164

BANKS, G.
Multispectral Scanner (MSS) instrument description
20 p3205 N84-30362

BANKS, H. T.
Estimation techniques for transport equations
[AD-A135092] 08 p1218 N84-17945
Estimation of temporally and spatially varying coefficients in models for insect dispersal
[AD-A135093] 08 p1216 N84-17946
Spline-based estimation techniques for parameters in elliptic distributed systems
[NASA-TM-85439] 08 p1218 N84-17947

Estimation of coefficients and boundary parameters in hyperbolic systems
[NASA-CR-172389] 19 p3082 N84-29562
Approximation techniques for parameter estimation and feedback control for distributed models of large flexible structures
[NASA-CR-172411] 20 p3135 N84-29903
Analysis, modeling and control of dynamical systems
[AD-A143937] 23 p3818 N84-34209

BANKS, P. M.
Electron beam experiments aboard the Space Shuttle 05 p0638 N84-14195
Electrodynamic tether experiments in the ionosphere 05 p0642 N84-14222
Electron beam experiments and other observations from STS-3
[AD-P002106] 16 p2522 N84-26192

BANKS, P. N.
NBS (National Bureau of Standards) Workshop: Environmental Control for Archival Records Storage
[PB83-242230] 03 p0460 N84-13026

BANKS, S. P.
On nonlinear systems and algebraic geometry
[RR-240] 13 p2034 N84-23196
On systems with spectral cluster points and their relation to H sup p spaces
[RR-235] 13 p2038 N84-23222
On the generation of infinite dimensional bilinear systems and Volterra series
[RR-228] 14 p2219 N84-24318
Nonlinear perturbations of dynamical systems and nonlinear controllability
[RR-249] 18 p2926 N84-28560

BANKS, W. P.
Visual organization and information processing
[PB84-170778] 15 p2384 N84-25295

BANKSTON, B. F.
Two-dimensional scanner apparatus
[NASA-CASE-MFS-25687-1] 13 p1992 N84-22928

BANNER, M.
Search for Hadron jets and large transverse momentum electrons at the SPS pp collider 06 p0911 N84-15913

BANNISTER, D. G.
Method in the generation of a real-time interactive display
[DE83-013523] 02 p0274 N84-11789

BANNISTER, K. A.
Large deformation analysis of a cylindrical shell under pure bending and pressurization 07 p1015 N84-16582

BANNISTER, P. R.
Connecticut ELF (Extremely Low Frequency) field strength measurements, March to May 1978
[AD-A137385] 10 p1479 N84-19666
Connecticut ELF (Extremely Low Frequency) field measurements, May to July 1977
[AD-A137416] 10 p1480 N84-19668
New formulas for HED (Horizontal Electric Dipole), HMD (Horizontal Magnetic Dipole), VED (Vertical Electric Dipole), and VMD (Vertical Magnetic Dipole) subsurface-to-subsurface propagation
[AD-A139030] 13 p2033 N84-23187
New formulas that extend Norton's farfield elementary dipole equations to the quasi-nearfield range
[AD-A139057] 13 p2034 N84-23188
Extension of finitely conducting Earth-Image-Theory results to any range
[AD-A139144] 14 p2139 N84-23827

BANNISTER, S.
Work done on D. P. machine
[OUEL-1488/83] 07 p1079 N84-17012

BANNON, L.
User centered system design
[AD-A136131] 09 p1384 N84-18907

BANOS, A., JR.
Solutions of a 4th order differential equation describing mode conversion in a magnetized plasma
[AD-A131600] 02 p0281 N84-11840

BANSAL, R.
Fields and currents and charges on obstacles in a parallel-plate simulator at selected frequencies and with pulse excitation
[AD-A132406] 04 p0520 N84-13418

BANSAL, R. K.
An algorithm for detecting a change in stochastic process
[AD-A134104] 06 p0900 N84-15842

BANTA, R. M.
AFGL cloud modeling program: Annex
[AD-A143084] 21 p3447 N84-31872

BANTHIA, V. K.
Numerical analysis of time-dependent inelastic fracture 17 p2677 N84-27054

BAO, H.
The present calculation method of adhering layers on aircraft wings
[AD-A137585] 11 p1602 N84-20496

BAOCHENG, G.
Preliminary investigation of fatigue crack propagation of 30CrMnSiA steel in salt spray corrosion conditions 20 p3160 N84-30068

BAOYIN, Y.
Preliminary discussion on the origin of Lei-gong-mo (tektites)
[NASA-TM-77328] 07 p1091 N84-17095

BAPAT, C. N.
Experimental investigation of controlling vibrations using multi-unit impact dampers 10 p1514 N84-19909

BAPU, P.
User's guide for COMBIMAN programs (Computerized Biomechanical Man-Model), version 6
[AD-A139139] 14 p2184 N84-24086

BAR-COHEN, Y.
Ultrasonic inspection of composite materials
[AD-D011210] 24 p3911 N84-34768

BAR-HILLEL, M.
Risk: The long and the short
[AD-A140580] 17 p2746 N84-27436

BAR-JOSEPH, I.
The physical mechanism of optical instabilities 14 p2232 N84-24389

BAR-KANA, I.
Direct multivariable model reference adaptive control with applications to large structural systems 06 p0900 N84-15840

BAR-NESS, Y.
Research in adaptive beamforming for satellite communications
[AD-A133733] 05 p0668 N84-14396

BAR-YAM, Y.
Semiconductor surface studies 22 p3681 N84-33338

BARABANOV, V. N.
Device for marking and searching for information on a magnetic carrier
[AD-A139393] 14 p2148 N84-23867

BARABOSHKIN, A. N.
Examination of the electrochemical behaviour of titanium in the LiC1-KC1 melt
[BLL-OA-TRANS-3010-(6196.3)] 01 p0042 N84-10273
The electrodeposition of titanium coatings
[BLL-OA-TRANS-3057-(6196.3)] 04 p0497 N84-13260

BARABOY, V. A.
Effects of insulin and hydrocortisone on energy metabolism in rats irradiated with fast, 60 MeV neutrons 22 p3630 N84-33002

BARAINCA, J. W.
An investigation of the phototropic effect on seedling orientation in a microgravity environment: A student involvement project 18 p2800 N84-27771

BARAK, G.
High-current betatron, phase 1
[AD-A143748] 23 p3824 N84-34252

BARAL, D.
On the mechanical and thermoelectric behavior of composition modulated foils 11 p1666 N84-20870

BARAN, R. H.
Adaptive signal detection for the optimal communications receiver
[AD-A133498] 06 p0824 N84-15374

BARANOV, A. A.
Structural anomaly in composite material
[BLL-M-35170-(5828.4)] 01 p0030 N84-10187

BARANOV, M. A.
Influence of choice of pair-interaction potential on results of modelling an edge dislocation in Alpha-iron
[BLL-M-35682-(5828.4)] 22 p3553 N84-32499

BARANOVA, V. A.
The redistribution of silicon during the spheroidizing annealing of iron
[BLL-M-35167-(5828.4)] 01 p0040 N84-10257
Influence of microplastic deformations on spheroidization of cementite in steel
[BLL-M-35503-(5828.4)] 12 p1795 N84-21711

BARANOWSKI, L. C.
A study of leeside flow field heat transfer on Shuttle Orbiter configuration
[NASA-CR-172362] 22 p3540 N84-32410

BARAS, P.
Singularities connected with a trace on a Banach algebra 22 p3634 N84-33034

BARASHENKOV, V. V.
Method of acceleration of arithmetic calculations 24 p3941 N84-34949

BARAT, C.
Two probable optical flashes from gamma-ray bursters
[NASA-TM-86126] 21 p3526 N84-32337
Three precise gamma-ray burst source locations
[NASA-TM-86132] 22 p3680 N84-33332

BARBA, J.
Low rate transmission of video signals using adaptive delta modulation
[AD-A133145] 06 p0823 N84-15363

BARBARIN, P.
In situ goniometer
[CETIM-5.41.22.0] 21 p3407 N84-31609

BARBARINO, S.
Critical slowing-down in microwave absorptive bistability 14 p2237 N84-24429

BARBATO, M. A. H.
The effect of haze on an operator's visual field and his target detection performance
[AD-A138330] 13 p2020 N84-23099

BARBEE, J. G.
Thickener/fluid interaction in lubricating greases
[AD-A142276] 20 p3161 N84-30076

BARBEE, T. W., JR.
Design of doubly focusing, tunable (5 - 30 keV), wide-bandpass optics made from layered synthetic microstructures
[DE83-015492] 03 p0441 N84-12897
Fabrication and properties of multilayer structures
[AD-A131934] 03 p0451 N84-12969

BARBER, B. C.
Theory of digital imaging from orbital synthetic aperture radar
[AD-A141152] 18 p2828 N84-27957

BARBER, J. P.
Optimization of electromagnetic propulsion systems 20 p3139 N84-29929
Pulsed inductive energy store
[AD-A144282] 24 p3916 N84-34796

BARBER, M. R.
KC-135 winglet program overview 18 p2787 N84-27687

BARBER, R. E.
Current status of an organic Rankine cycle engine development program 18 p2872 N84-28230

BARBER, V. C.
Repair and restoration of paved surfaces. Phase 2: Backfilling of craters
[AD-A135745] 10 p1471 N84-19610

BARBERIS, G.
Traffic routing in a switched regenerative satellite. Volume 2, task 4: Review (executive summary)
[ESA-CR(P)-1792-VOL-2] 08 p1147 N84-17464

BARBERO, J.
Development of a slotted waveguide array panel for SAR antenna: Electrical design and testing
[IEC-MO-80/11] 23 p3732 N84-33656

BARBIERI, R. W.
Methodology for interpretation of SST retrievals using the AVHRR split window algorithm
[NASA-TM-85100] 24 p3934 N84-34905

BARBIN, M. B.
Investigation of the influence of the zeta-potential on the filtration rate in the presence of collectors
[NASA-TM-77447] 19 p2987 N84-28927

BARBOSA, M. N.
Current status of th Brazilian LANDSAT facilities 10 p1523 N84-19977
A national program for data collection platforms: Information techniques for users
[INPE-3137-NTE/219] 24 p3858 N84-34456

BARBOSA, M. P.
Results of field observations of radio waves in alluvial deposits in Cara state from 1:100.000: Fortaleza, Canirde, Taperuaba, Santa Quiteria, Sobral, and Sao Luiz do Curu
[INPE-3061-NTE/216] 16 p2509 N84-26100
A report of Ceara Project activities
[INPE-2988-RPE/452] 17 p2711 N84-27260
Automatic image processing
[INPE-3001-MD/024] 17 p2752 N84-27464

BARBOUR, R. T.
Development of Test Article Building Block (TABB) for deployable platform systems 08 p1111 N84-17226

BARBROW, L. E.
Report of the 68th National Conference on Weights and Measures 1983
[PB84-110998] 08 p1141 N84-17425

BARBUZENKO, V. F.
Measurements of coefficient of turbulent diffusion in middle-latitude strato- and mesosphere 11 p1670 N84-20894

BARCA, L.
Ergo-ophthalmological aspects of the VDU: Visual strain and the blue light lesion
[DRIC-T-6921] 09 p1361 N84-18893

BARCALY, K. M.
Production of hydrogen from renewable resources
[DE84-000082] 14 p2132 N84-23780

BARCHET, W. R.
Estimating long-term mean winds from short-term wind data
[DE83-017417] 03 p0412 N84-12693
Weather pattern climatology of the US
[DE84-005883] 11 p1688 N84-21011
BARCK, H.
Ultrasonic inspection of internal defects in castings
[VTT-201] 14 p2156 N84-23920
BARCLAY, J. A.
Low-hysteresis materials for magnetic refrigeration: Gd sub 1-x/Er sub x/Al2
[DE84-001685] 04 p0505 N84-13307
The theory of an active magnetic regenerative refrigerator 06 p0821 N84-15351
Magnetic refrigeration: The promise and the problems
[DE84-007481] 19 p3002 N84-29028
Thermomagnetic properties of GdPd
[DE84-009991] 22 p3556 N84-32515
BARCLAY, R. C.
A computer model for evaluation of launch vehicle and target tracking error assignments for direct ascent, deep space ASAT (Anti-satellite) systems
[AD-A141136] 20 p3134 N84-29698
BARCZA, S.
Some problems in calibrating UBV photometry for effective temperature and surface gravity 15 p2422 N84-25546
BARD, J. K.
Modeling the mechanical behavior of elastomeric styrene-butadiene-styrene block copolymers 11 p1635 N84-20693
BARD, J. P.
Orbital propulsion module system configuration study. Volume 1: Executive summary
[S/DT/YA-25-030-VOL-1] 08 p1120 N84-17282
BARDAKHANOV, S. P.
Formation of coherent structures by acoustical effects in a turbulent wake 21 p3480 N84-32055
BARDIN, B. M.
An Ada (trademark) network: A real-time distributed computer system
[AD-P003423] 20 p3270 N84-30755
BARDINO, J.
Improved turbulence models based on large eddy simulation of homogeneous, incompressible turbulent flows 06 p0845 N84-15514
Improved turbulence models based on large eddy simulation of homogeneous, incompressible turbulent flows
[NASA-CR-166541] 08 p1156 N84-17528
BARE, E. A.
Investigation of installation effects on twin-engine convergent-divergent nozzles
[NASA-TP-2205] 04 p0479 N84-13152
Effect of thrust reverser operation on the lateral-directional characteristics of a three-surface F-15 model at transonic speeds
[NASA-TP-2234] 04 p0481 N84-13165
BARENBERG, E. J.
Rubber removal from porous friction course
[FAA-PM-83-31] 02 p0182 N84-11184
Development of a stress-dependent finite element slab model
[AD-A135836] 09 p1332 N84-18694
BARER, A. S.
Simulation of cerebrocranial trauma for evaluation and development of gear to protect pilots against impacts 02 p0259 N84-11695
BARFIELD, A. F.
Multivariable control laws for the AFTI/F-16
[AD-A135870] 09 p1258 N84-18210
Multivariable control laws for the AFTI/F-16
[AFIT/GE/EE/83S-4] 15 p2253 N84-24531
BARFIELD, J. N.
Magnetospheric plasma studies using data from the dynamics high and low altitude plasma instruments
[AD-A131793] 03 p0408 N84-12670
BARGER, W. R.
Phthalocyanine derivatives specifically designed for fabrication of organic semiconductor gas sensors
[AD-A130611] 01 p0083 N84-10540
BARGHUSEN, J. J.
Annotated bibliography of battery evaluations
[DE84-000653] 04 p0527 N84-13466
BARHEN, J.
Automated planning for intelligent machines in energy-related applications
[DE84-011666] 20 p3279 N84-30815
Basis research on intelligent robotic systems operating in hostile environments: New developments at ORNL
[DE84-011484] 21 p3414 N84-31647
BARIN, K.
An experimental study of multi-link models of human postural dynamics and control 04 p0572 N84-13769
BARINOV, S. M.
Deformation and failure of titanium aluminide 23 p3709 N84-33510
Creep of LaCrO-3Cr ceramic-metallic material 24 p3877 N84-34568
BARISANO, E.
SAR 580: Images for agricultural and forest survey. First results in middle Belgium 03 p0397 N84-12595
BARISH, B. C.
Detectors at 20 TeV and detector considerations for a high luminosity hadron-hadron machine 06 p0911 N84-15920
BARK, P. R.
Recent developments in mini-unit cable 11 p1725 N84-21255
BARKAI, D.
A highly optimized vectorized code for Monte Carlo simulations of SU(3) lattice gauge theories 10 p1560 N84-20219
Vectorized multigrid Poisson solver for the CDC CYBER 205 10 p1561 N84-20230
BARKAKATI, N.
Asymptotic models for wave scattering from very rough surfaces 13 p1984 N84-22883
BARKALOW, R. H.
Behavior of Ni-Cr-Si coating alloys in Na2SO4, V2O5 and mixed salt hot corrosion
[DE84-012386] 21 p3367 N84-31363
BARKAN, B.
Performance evaluation of the JPL interim digital SAR processor 07 p0989 N84-16407
BARKER, D. B.
Analysis of dynamic mixed-mode crack tip stress patterns
[AD-A143329] 22 p3611 N84-32880
BARKER, F.
Sm-Nd isotopic systematics of the ancient Gneiss complex, southern Africa 11 p1678 N84-20950
The estimation and correction of refractive bending in the AR3-D tactical radar systems 15 p2325 N84-24958
BARKER, J. L.
Analysis of multispectral scanner (MSS) and Thematic Mapper (TM) performance (pre-launch and post-launch)
[E84-10043] 04 p0552 N84-13636
LANDSAT-4 sensor performance
[E84-10053] 05 p0697 N84-14573
Spectral characterization of the LANDSAT thematic mapper sensors
[E84-10065] 06 p0865 N84-15634
LANDSAT-4 Science Investigations Summary, including December 1983 Workshop results, volume 1
[E84-10166] 20 p3205 N84-30359
Multispectral Scanner (MSS) instrument description 20 p3205 N84-30362
Radiometric calibration and processing procedure for reflective bands on LANDSAT-4 protoflight Thematic Mapper 20 p3206 N84-30366
TM digital image products for applications 20 p3206 N84-30371
Spectral characterization of the LANDSAT Thematic Mapper sensors 20 p3207 N84-30372
Pre-launch absolute radiometric calibration of LANDSAT-4 protoflight Thematic Mapper 20 p3207 N84-30373
Relative radiometric calibration of LANDSAT TM reflective bands 20 p3207 N84-30374
Thermal band characterization of LANDSAT-4 Thematic Mapper 20 p3207 N84-30376
LANDSAT-4 Science Investigations Summary, including December 1983 Workshop results, volume 2
[E84-10167] 20 p3208 N84-30380
Spectral characterization of the LANDSAT-4 MSS sensors 20 p3211 N84-30402
Radiometric calibration and processing procedure for reflective bands on LANDSAT-4 protoflight Thematic Mapper
[E84-10056] 21 p3426 N84-31731
TM digital image products for applications
[E84-10178] 21 p3428 N84-31749
Relative radiometric calibration of LANDSAT TM reflective bands
[E84-10179] 21 p3428 N84-31750
Prelaunch absolute radiometric calibration of the reflective bands on the LANDSAT-4 protoflight Thematic Mapper
[E84-10180] 21 p3428 N84-31751
Prelaunch absolute radiometric calibration of LANDSAT-4 protoflight Thematic Mapper
[E84-10181] 21 p3429 N84-31752
Characterization of radiometric calibration of LANDSAT-4 TM reflective bands
[E84-10182] 21 p3429 N84-31753
TM digital image products for applications
[E84-10183] 21 p3429 N84-31754
Spectral characterization of the LANDSAT Thematic Mapper sensors
[E84-10184] 21 p3429 N84-31755
Introduction to Thematic Mapper investigations. Section 1: Radiometry. Section 2: Geometry
[E84-10185] 21 p3429 N84-31756
Relative radiometric calibration of LANDSAT TM reflective bands
[E84-10186] 21 p3429 N84-31757
BARKER, L. K.
Kinematic equations for resolved-rate control of an industrial robot arm
[NASA-TM-85685] 04 p0585 N84-13866
Kinematic control of robot with degenerate wrist
[NASA-TP-2341] 18 p2923 N84-28539
BARKER, L. M.
Velocity interferometry for time-resolved high-velocity measurements
[DE83-013968] 01 p0088 N84-10577
A user-oriented and computerized model for estimating vehicle ride quality
[NASA-TP-2299] 12 p1866 N84-22162
Development of a high-pressure quasi-isentropic plane wave generating capability
[DE84-011619] 20 p3203 N84-30348
BARKER, R.
Integrated Cuing Requirements (ICR) study: Feasibility analysis and demonstration study
[AD-A131039] 01 p0117 N84-10758
Integrated Cuing Requirements (ICR) study: Demonstration data base and users guide
[AD-A131119] 03 p0459 N84-13019
BARKER, R. J.
Numerical simulation of high energy light ion beam flow through a foilless diode
[AD-A131001] 02 p0289 N84-11892
Decoupling ion efficiency from impedance in pulsed power diodes
[DE83-018114] 04 p0528 N84-13470
Numerical simulations of the NRL collective particle accelerator
[AD-A135533] 08 p1228 N84-18028
Status of light ion inertial fusion research at NRL (Naval Research Laboratory)
[AD-A135951] 09 p1392 N84-19087
BARKER, T.
The ionization structure of planetary nebulae. 4: NGC 6853
[NASA-CR-173240] 07 p1090 N84-17086
The ionization structure of planetary nebulae V NGC 3242
[NASA-CR-173914] 22 p3679 N84-33322
BARKESHLI, S.
Interaction of the radar waves with the capillary waves on the ocean
[AD-A129690] 01 p0064 N84-10421
BARKLEY, J.
Computer science and technology: Selection of microcomputer systems
[PB84-167725] 15 p2389 N84-25331
BARKMAN, W. E.
Machine monitoring for turning machine
[DE84-010214] 19 p3003 N84-29029
BARKMEYER, E. J.
Data distribution in the NBS Automated Manufacturing Reseach Facility 12 p1891 N84-22315
BARLETTA, W. A.
Beam dynamics in the Advanced Test Accelerator (ATA)
[DE84-001421] 04 p0598 N84-13947
BARLIER, F.
Space laser applications in geophysics 24 p3903 N84-34719
Earth's rotation and its geophysical implications 24 p3904 N84-34720
BARLING, G. M.
Integration of fire control, navigation system and head up display 03 p0315 N84-12060
BARLOW, J.
Effect of pressure on the static and dynamic acoustic properties of porous rubber
[AD-A138744] 13 p1963 N84-22756
BARLOW, J. L.
Parallel scaled givens rotations for the solution of linear least squares problems
[AD-A140778] 17 p2758 N84-27512
BARLOW, M. J.
A model of the planetary nebula NGC 3918 based on IUE observations 24 p3978 N84-35195
BARLOW, N. G.
Martian crater size distributions and terrain age 13 p2077 N84-23462
BARLOW, R. E.
A survey of network reliability
[AD-A133545] 06 p0899 N84-15835

A Bayesian explanation of an apparent failure rate paradox
[AD-A134748] 08 p1223 N84-17987
Various aspects of network reliability
[AD-A136579] 09 p1384 N84-19038
Informative stopping rules
[AD-A140599] 17 p2758 N84-27507

BARLOW, R. S.
Oil/salt hydrate direct-contact heat-exchange experiments
[DE83-009396] 01 p0082 N84-10533
An assessment of dehumidifier geometries for desiccant cooling systems
[DE83-011991] 16 p2512 N84-26123

BARMASHENKO, B. G.
Forging and stamping nonferrous metals. Handbook
[AD-A141689] 21 p3366 N84-31351

BARMATZ, M. B.
Vibrating-chamber levitation systems
[NASA-CASE-NPO-16142-1] 07 p1070 N84-16948
Gravity enhanced acoustic levitation method and apparatus
[NASA-CASE-NPO-16147-1] 07 p1070 N84-16949

BARMINSKIY, L.
Improved planning for local territorial units urged
01 p0055 N84-10360

BARNABY, B. E.
Tubular battery and transistorized controller outdoor laboratory test program
[DE83-016231] 02 p0304 N84-11995

BARNARD, J. C.
Historical carbon dioxide: Abundances derived from the Smithsonian spectrobolograms
[DOE/NBB-0063] 23 p3793 N84-34056

BARNARD, L. A.
Marine manganese accretions: Nodule micronodule comparisons among major ocean basins
02 p0257 N84-11683

BARNARD, S. T.
Machine intelligence research applied to industrial automation
[PB84-123348] 10 p1473 N84-19618

BARNES-FARRELL, J. L.
Personnel technology: Performance appraisal, a process approach
[AD-A138359] 13 p2022 N84-23112
Effects of appraisal salience on immediate and memory-based judgments
[AD-A140334] 16 p2538 N84-26295

BARNES, A.
Spatial dependences in the distant solar wind: Pioneers 10 and 11 03 p0472 N84-13107

BARNES, C. E.
Effects of pressure on deep electronic levels in semiconductors
[DE83-016247] 02 p0299 N84-11965
Neutron damage effects in AlGaAs/GaAs solar cells
[DE84-009448] 21 p3435 N84-31791
Radiation effects in optoelectronic devices
[DE84-012889] 21 p3499 N84-32176
Irradiation of optimized, MBE grown, AlGaAs radiation hardened photodiode
[DE84-008034] 21 p3504 N84-32208

BARNES, C. W.
Recent results in the Los Alamos compact torus program
[DE83-014147] 03 p0446 N84-12930
Relationships and tectonics of the Jg-7 quadrangle of Ganymede 13 p2091 N84-23542
Space resolved absolutely calibrated VUV spectroscopic measurements on CTX
[DE84-007490] 20 p3304 N84-30984
Mixed mode operation in CTX
[DE84-007493] 20 p3304 N84-30985
Ohmic heating to 100-eV and helicity injection in CTX
[DE84-007494] 20 p3304 N84-30986
Confinement time and energy balance in the CTX spheromak
[DE84-007492] 20 p3304 N84-30987

BARNES, D. C.
Recent results in the Los Alamos compact torus program
[DE83-014147] 03 p0446 N84-12930
Sustained self-reversal in the reversed field pinch
[DE84-001559] 06 p0921 N84-15990
Free-boundary stability of straight stellarators
[DE84-008272] 14 p2230 N84-24378

BARNES, D. E.
An objective waveform comparison technique
[AD-A136130] 09 p1315 N84-18596

BARNES, D. R.
System for the removal of airborne contaminants from aircraft environmental control systems
[AD-D011172] 23 p3727 N84-33615

BARNES, E. S.
Temporal and spatial gaseous HCl concentrations in the near field STS postlaunch environment, Kennedy Space Center, Florida
[AD-A136935] 10 p1532 N84-20032

BARNES, G. D.
A preliminary survey of plankton and periphyton in the Turn Barge Canal and basin area of Kennedy Space Center, Florida 06 p0928 N84-16027

BARNES, G. R.
The effects of character stroke width on the visibility of a head-coupled display
[AD-A132046] 04 p0484 N84-13183

BARNES, H. M.
Acidification of rain by the oxidation of dissolved SO2 and the absorption of HNO3
[PB84-168368] 15 p2367 N84-25200

BARNES, J.
Ada-Europe guidelines for the portability of Ada programs, second edition
[NPL-DITC-27/83] 03 p0419 N84-12739

BARNES, J. A.
Testing of candidate batteries for global positioning system 23 p3736 N84-33677
High rate discharge studies of Li/SO2 batteries
23 p3737 N84-33680

BARNES, J. C.
Study of the combined use of data from satellite thermal infrared and microwave sensors for soil moisture detection
[PB83-252734] 05 p0698 N84-14582

BARNES, J. G. P.
ANSI Ada and the UK M-CHAPSE
05 p0725 N84-14760

BARNES, J. M.
Monte Carlo calculations of neutron and gamma-ray energy spectra for fusion-reactor shield design: Comparison with experiment
[DE83-016932] 03 p0449 N84-12956

BARNES, J. R.
Baroclinic waves in the atmosphere of Mars: Observations, linear instability, and finite-amplitude evolution 04 p0621 N84-14094

BARNES, J. W.
Estimation of uncertainty in coal resources
[DE83-902538] 03 p0401 N84-12620

BARNES, L. M.
Measurement capabilities of the Bendix Metrology Organization
[DE84-005876] 11 p1661 N84-20834

BARNES, P. R.
Method for determining how to operate and control wind turbine arrays in utility systems
[DE84-005617] 12 p1813 N84-21817
Nuclear electromagnetic pulse (EMP) and electric power systems
[DE84-010665] 20 p3175 N84-30166

BARNES, P. W.
Statistical aspects of ice gouging on the Alaskan Shelf of the Beaufort Sea
[AD-A134428] 08 p1196 N84-17798
Sedimentary facies on an ice dominated shelf, Beaufort Sea, Alaska 14 p2165 N84-23967

BARNES, R. D.
Technology for the product and process data base
12 p1889 N84-22302

BARNES, R. G.
New developments and opportunities for NMR in metal-hydrogen systems
[DE83-017696] 03 p0437 N84-12864
Moessbauer spectroscopy study of amorphous Fe87B11Au2 ribbon and its crystallization products
[DE83-018091] 06 p0924 N84-16010

BARNES, R. H.
Carbon dioxide sensor technology
[AD-A133688] 05 p0716 N84-14690
Analysis of polynuclear aromatic hydrocarbons in particulate matter by luminescence techniques
[PB84-181882] 21 p3363 N84-31333

BARNES, R. M.
Dynamics of heat, mass and momentum transfer in an inductively coupled plasma
[DE84-014121] 23 p3828 N84-34282

BARNES, W. L.
Heat Capacity Mapping Radiometer (HCMR) data processing algorithm, calibration, and flight performance evaluation
[E84-10153] 17 p2709 N84-27248
Deep reconditioning testing for near Earth orbits
23 p3738 N84-33689

BARNETT, A.
Charging effects observed on Voyager 1 near Jupiter
08 p1116 N84-17260

BARNETT, B. M.
Methods for estimating physicochemical properties of inorganic chemicals of environmental concern
[AD-A144154] 24 p3917 N84-34799

BARNETT, L. R.
A high-gain 35 GHz free-electron laser amplifier experiment
[AD-A139593] 14 p2151 N84-23866

BARNETT, S.
Pinacate-Gran Desierto Region, Mexico: SIR-A data analysis 13 p2088 N84-23526

BARNETT, T. P.
Long-term trends in dynamic height and sea surface temperature
[DE83-014868] 02 p0258 N84-11687

BARNEY, D. L.
Lithium/iron sulfide batteries for electric-vehicle propulsion and other applications
[DE84-004193] 09 p1310 N84-18565

BARNHART, B. P.
Rotary balance data for a typical single-engine general aviation design for an angle-of-attack range of 20 to 90 deg. 3: Influence of control deflection on predicted model D spin modes
[NASA-CR-3248] 16 p2438 N84-25641

BARNHART, B. V.
PETN homolog analysis and large-scale preparation of pure PETN homologs by High-Performance Liquid Chromatography (HPLC)
[DE84-002169] 07 p0972 N84-16300

BARNHILL, R. E.
Computer-aided surface representation and design
12 p1875 N84-22218

BARNUM, S. R.
Selection of a general purpose language and a real-time language suitable for shipboard data system 3
[PB84-180892] 20 p3275 N84-30795

BARNWELL, T. O., JR.
Hydrologic simulation program. FORTRAN: Development, maintenance and application
[PB84-168418] 16 p2511 N84-26114

BARNWELL, T. P., III
A graph theoretic technique for the generation of systolic implementations for shift-invariant flow graphs
[AD-A142251] 19 p3090 N84-29615
A procedure for designing exact reconstruction filter banks for tree-structured subband coders
[AD-A142345] 20 p3173 N84-30150

BARON, A.
Boundary layer segmentation on sharp highly swept leading edges and its effects on secondary vortices
03 p0326 N84-12132

BARON, E.
Type II successful supernovae, the anatomy of shocks: Neutrino emission and the adiabatic index
[DE84-002858] 11 p1757 N84-21472

BARON, J. R.
Computational methods for complex flowfields
[AD-A133970] 05 p0680 N84-14487

BARON, M.
Capabilities and limitations of EISCAT as an MST radar 17 p2690 N84-27129

BARON, S.
A pilot/vehicle model analysis of the effects of motion cues on Harrier control tasks
[AD-A136291] 09 p1258 N84-18209
F-14 modeling study
[NASA-CR-172336] 16 p2448 N84-25701

BARON, V. V.
Constitution diagram of system vanadium - copper
[AD-A135516] 08 p1132 N84-17361

BAROSH, P.
Geology hydrology and mineral resources of crystaline rock areas of Northeastern US
[DE84-013671] 21 p3432 N84-31774
Geology, hydrology, and mineral resources of crystalline rock areas of the northeastern United States
[DE84-013672] 22 p3614 N84-32901

BARR, A.
Artificial intelligence: Cognition as computation
[AD-A131804] 03 p0423 N84-12770

BARR, D. R.
Statistics and operations research in Europe--1983
[AD-A138953] 13 p2037 N84-23215

BARR, E. E.
Adaptive feedforward linear wideband HF power bank
[AD-A134744] 08 p1151 N84-17493

BARR, G. E.
Modeling of the regional hydraulics of the Rustler Formation
[DE84-005859] 11 p1672 N84-20910

BARR, J. G.
Fluid replacement during hypothermia
[AD-A143807] 23 p3810 N84-34159

BARR, S. W.
Intramolecular electron transfer at metal surfaces. 1. Relative energetics of some corresponding outer- and inner-sphere pathways involving halide and pseudohalide bridging ligands
[AD-A139021] 13 p1956 N84-22716
Electron-transfer kinetics of redox centers anchored to metal surfaces: Weak- versus strong-overlap reaction pathways
[AD-A139043] 13 p1956 N84-22718
Electrochemical activation parameters for surface-attached reactants evaluation of unimolecular frequency factors for representative ligand-bridged reactions
[AD-A142483] 20 p3148 N84-29990
BARR, T. A., JR.
Operating conditions for the Hydrogen/Deuterium triplet lasers
[AD-A141388] 19 p3029 N84-29210
BARRERA, F.
Cryogenic testing of the TPC superconducting solenoid
[DE84-000528] 04 p0527 N84-13467
Forced two-phase cooling of the TPC superconducting solenoid
[DE83-017749] 04 p0613 N84-14049
BARRETO, E.
The gas-heating phase in electrical breakdown
[AD-A141961] 20 p3302 N84-30967
BARRETT-GULTEPE, M. A.
Compressibility of colloids. 2: Compressibility studies of tri-block non-ionic polymers in toluene and water solutions
[AD-A138738] 13 p1963 N84-22755
BARRETT, A. H.
Radio astronomy 22 p3683 N84-33349
BARRETT, A. J.
The evaluation/validation process: Practical considerations and methodology for the evaluation of phenomenological data 07 p1086 N84-17064
BARRETT, C. A.
Oxidation and corrosion resistance of candidate Stirling engine heater-head-tube alloys
[NASA-TM-83609] 19 p2992 N84-28962
High-temperature cyclic oxidation data, volume 1
[NASA-TM-83665] 21 p3365 N84-31345
BARRETT, E. C.
AgRISTARS stage 3: The Bristol interactive scheme (BIAS) for satellite-improved rainfall monitoring: Further developments, testing and method description
[PB84-150630] 12 p1837 N84-21976
BARRETT, H. H.
Optical processing in radon space
[AD-A137033] 10 p1579 N84-20343
BARRETT, J. H.
Calculations of Channeling in Semiconductor Superlattices
[DE83-012040] 01 p0154 N84-11011
BARRETT, J. L.
Experiments on interaction of keV particle beams with the ionosphere
[AD-A143277] 22 p3623 N84-32957
BARRETT, J. W.
Radio astronomy 22 p3683 N84-33349
BARRETT, K. E.
Super upwinding elements of doubt and discrete differences of opinion on the numerical muddling of the incomprehensible defective confusion equation
19 p3025 N84-29188
A multigrid finite element method
23 p3818 N84-34213
BARRETT, L. E.
Turbulent flow annular pump seals: A literature review
12 p1822 N84-21875
BARRETT, M.
Spacecraft interface design and its impact on operational support
[ESA-STR-211] 03 p0342 N84-12220
BARRETT, M. J.
Data buffer apparatus between subsystems which operate at differing or varying data rates
[AD-D011206] 24 p3940 N84-34941
BARRETT, S. A.
Advanced pattern recognition
[AD-A132339] 04 p0604 N84-13987
BARRETT, T. W.
Soliton propagation in one-dimensional organic conductors
[AD-A139386] 14 p2242 N84-24463
BARRETTE, J.
Recent results in the study of heavy-ion elastic scattering at large angles
[DE83-012214] 01 p0142 N84-10935
Improved four-stage accel-decel production of low-energy stripped heavy ions
[DE83-005791] 06 p0910 N84-15908
BARRETTI, M. D.
Low noise microwave frequency synthesizers
[INPE-2796-PRE/358] 11 p1642 N84-20733
BARRICK, D.
Optimum backscatter cross section of the ocean as measured by synthetic aperture radars
17 p2714 N84-27276
BARRON, F. H.
Equal weights, flat maxima, and trivial decisions
[AD-A138506] 12 p1895 N84-22342
BARRON, R. P.
Bibliography of in-house and contract reports, supplement 12
[AD-A141778] 19 p3041 N84-29298
BARROS, J. A. I.
Identification and estimation of the area planted with irrigated rice based on the visual interpretation of LANDSAT MSS data
[E84-10164] 17 p2710 N84-27256
BARROS, M. S. S.
The use of photointerpretation for socio-economic characterization of urban population
[INPE-3067-PRE/484] 16 p2561 N84-26428
BARROWS, R. F.
Baseline performance and emissions data for a single-cylinder, direct-injected diesel engine
[NASA-TM-86873] 23 p3836 N84-34330
BARRY, B. M.
Historical research and development inflation indices for Army fixed and rotor winged aircraft
[AD-A142943] 21 p3323 N84-31085
BARRY, C. P.
Thermal endurance of silicone/glass sleeving by the cyclic electrical proof test method of IEC 216 (first report)
[ERA-82-91] 13 p1999 N84-22967
Thermal endurance of silicone/glass sleeving by the cyclic electrical proof test method of ICC 216 (second report)
[ERA-82-136] 13 p1999 N84-22968
BARRY, J. M.
Office automation in the acquisition environment
[AD-P002747] 13 p2049 N84-23294
Automating the source selection process
[AD-P002835] 13 p2063 N84-23380
BARRY, R. G.
Pilot study and evaluation of a SMMR-derived sea ice data base
[NASA-CR-175255] 22 p3614 N84-32896
BARSCH, G. R.
Targeted basic studies of ferroelectric and ferroelastic materials for piezoelectric transducer applications
[AD-A132136] 04 p0526 N84-13461
Targeted basic studies of ferroelectric and ferroelastic materials for piezoelectric transducer applications
[AD-A132262] 04 p0612 N84-14043
BARSELLA, B.
A comprehensive ultraviolet extinction study: Grain model and grain evolution implications
24 p3982 N84-35232
BARSS, R. P.
Novel composite membranes
[PB83-243170] 03 p0351 N84-12284
BARSUKOV, V. L.
Earth's dust envelop 19 p2976 N84-28864
BARTEE, T. C.
C-3I local area networks: An assessment
[AD-A134194] 07 p0992 N84-16431
C3I (Command, Control, Communications and Intelligence) information systems internetwork study
[AD-A144271] 24 p3942 N84-34958
BARTEK, R. J.
RF systems in space. Volume 2: Space-based radar analyses
[AD-A133735] 05 p0668 N84-14394
BARTEL, W.
The problem of tracking charged particles in the cores of high energy jets in a high rate environment
06 p0911 N84-15916
BARTELL, S. M.
Fates and biological effects of polycyclic aromatic hydrocarbons in aquatic systems
[PB83-250191] 04 p0561 N84-13698
BARTELS, H.
Reports from the German Meteorological Service, no. 163. Contribution to the classification of waste heat weather situations by means of thermal stratification. Upper Rhine model. Waste heat project, Upper Rhine, part 2
[ISBN-3-88148-206-7] 12 p1849 N84-22048
BARTELS, W.
Wide flanged beams with improved properties
[BMFT-FB-T-83-082] 02 p0197 N84-11283
BARTELSON, D.
Contamination control and cleanliness level integrity for the Space Shuttle Orbiter PLB, payloads and facilities at KSC 24 p3865 N84-34498
BARTENEV, G. M.
Dynamic stress in elastic areas developing upon interaction of intensive heat fluxes with solid bodies
24 p3873 N84-34545
BARTENS, E.
Implementation of a reliability shorthand on the Apple 2(+) microcomputer
[AD-A136778] 10 p1557 N84-20203
BARTH, D. S.
Neuromagnetic localization of two components of the transient visual evoked response to patterned stimulation
[AD-A132546] 05 p0712 N84-14667
Magnetoencephalography
[AD-A132496] 05 p0712 N84-14668
BARTH, J. M.
TOPEX orbital radiation study
[NASA-TM-85447] 16 p2582 N84-26562
BARTH, S.
Advanced pattern recognition
[AD-A132339] 04 p0604 N84-13987
BARTH, T. J.
An efficient approximate factorization implicit scheme for the equations of gasdynamics
[NASA-TM-85957] 19 p3082 N84-29556
BARTHEL, G.
Laser diode range finder - target acquisition and tracking system functional model/demonstration model
24 p3908 N84-34754
BARTHEL, J. R.
Study of excited state energy transfer processes
[AD-A131777] 03 p0433 N84-12837
BARTHELEMY, B. M.
Finite element analysis of bonded joints
[AD-A140559] 17 p2680 N84-27068
BARTHELEMY, J. F. M.
Aerospace engineering design by systematic decomposition and multilevel optimization
[NASA-TM-85823] 19 p2962 N84-28775
BARTHELSON, S. H.
Grid flexibility and patching techniques
11 p1610 N84-20540
BARTHOLDI, J. J., III
A fast heuristic based on spacefilling curves for minimum-weight matching in the plane
[AD-A129857] 01 p0129 N84-10846
BARTHOLOMAE, H.
Investigations to improve the stability of thermal oxides on polycrystalline and single crystalline silicon
[BMFT-FB-T-84-052] 19 p3113 N84-29780
BARTHOLOME, E.
SAR 580: Images for agricultural and forest survey. First results in middle Belgium 03 p0397 N84-12595
BARTHOLOMEW, C. H.
Metal-support interactions: Their effects upon adsorption, electronic, and activity/selectivity properties of cobalt in CO hydrogenation
[DE83-013012] 10 p1457 N84-19516
BARTHOLOMEW, R. J.
State variable method of fault tree analysis
[DE84-006007] 12 p1824 N84-21891
BARTINE, D. E.
Space reactor shielding: An assessment of the technology
[DE84-003319] 10 p1577 N84-20335
BARTL, A.
Baryon-antibaryon angular correlations in quark jets
[DE83-015923] 03 p0435 N84-12854
BARTLETT, D. S.
Global Biology Research Program: Biogeochemical Processes in Wetlands
[NASA-CP-2316] 20 p3256 N84-30665
BARTLETT, M. D.
Airloads research study. Volume 1: Flight test loads acquisition
[NASA-CR-170409] 08 p1103 N84-17173
Airloads research study. Volume 2: Airload coefficients derived from wind tunnel data
[NASA-CR-170410] 08 p1103 N84-17174
BARTLETT, R. J.
Prediction of transition states and thermochemistry for combustion reactions
[AD-A140738] 17 p2619 N84-26761
BARTO, A. G.
Simulation experiments with goal-seeking adaptive elements
[AD-A140295] 16 p2546 N84-26343
BARTOLINI, C.
Ultraviolet and optical observations of the Cygnus OB2 association: The star 8A 24 p3977 N84-35191
SS Cygni: Accretion disk morphology
24 p3979 N84-35206
Coordinated X-ray, ultraviolet, optical, and infrared observations of the transient source A0535+26
24 p3981 N84-35219

BARTOLONI, S.
Study of advanced signal processing and calibration for IRES (infrared sensors)
[REPT-458-DT-5] 12 p1782 N84-21628
BARTOLUCCI, L.
LANDSAT-4 MSS and TM spectral class comparison and coherent noise analysis 20 p3208 N84-30381
LANDSAT-4 MSS and Thematic Mapper data quality and information content analysis 23 p3766 N84-33671
BARTON, C. N.
Neurobehavioral effects of carbon monoxide (CO) exposure in humans protocol 1
[AD-A133891] 06 p0888 N84-15774
BARTON, J.
Comparison of the full potential and Euler formulations for computing transonic airfoil flows
[NASA-TM-85983] 21 p3324 N84-31094
BARTON, J. J.
Direct determination of surface structures from photoelectron diffraction
[DE84-002572] 05 p0663 N84-14360
Angle-resolved photoemission extended fine structure
[DE84-002899] 08 p1236 N84-18080
BARTON, J. M.
Numerical solution of the three-dimensional unsteady Euler equations
[AD-A132034] 03 p0425 N84-12783
BARTON, M. Q.
Acceleration of heavy ions in the AGS and CBA
[DE83-017762] 04 p0600 N84-13963
BARTON, S. A.
Chemical generation and deactivation of oxygen singlet delta
[AD-A135392] 08 p1124 N84-17308
BARTON, S. K.
A system to measure LOS atmospheric transmittance at 19 GHz 15 p2324 N84-24951
BARTSCH, N.
Layout of a SAR sensor for Spacelab and satellite. Part 1: Design considerations for fundamental SAR parameters
[ESA-TT-802] 03 p0343 N84-12224
BARTSCH, R. R.
Recent results in the Los Alamos compact torus program
[DE83-014147] 03 p0446 N84-12930
BARUAH, P. K.
PAN AIR: A computer program for predicting subsonic or supersonic linear potential flows about arbitrary configurations using a high order panel method. Volume 2: User's manual (version 1.1)
[NASA-CR-3252] 18 p2788 N84-27698
PAN AIR: A computer program for predicting subsonic or supersonic linear potential flows about arbitrary configurations using a higher order panel method. Volume 4: Maintenance document (version 1.1)
[NASA-CR-3254] 23 p3690 N84-33388
BARUN, H.
Parameter identification and control of distributed-parameter systems 02 p0286 N84-11873
BARVAINIS, R. E.
Linear polarization and total flux density of silicon monoxide masers and active extragalactic objects at millimeter wavelengths 21 p3522 N84-32314
BARYLAK, M.
Flux variations of 88 Her through phase transition from far UV to visual 24 p3976 N84-35184
BARZ, F.
Surface-enhanced Raman spectroscopy of electrochemically characterized interfaces. Relations between Raman scattering intensity and surface coverage for simple anionic adsorbates
[AD-A139054] 13 p1957 N84-22721
BASCO, D. R.
Environmental impact research program. An implicit, wiggle-free, and accurate upstream finite-difference algorithm for the 1-dimensional transport-diffusion equation
[AD-A143141] 21 p3436 N84-31802
BASEHEART, T. M.
Reinforced concrete response to near field explosions
[AD-A135876] 09 p1332 N84-18696
BASFELD, M.
An investigation of the interaction of vortex rings and a laminar free jet flow
[MPIS-16/1983] 18 p2837 N84-28009
BASHENKO, V. A.
Effect of surface condition and edge preparation on metal fusion during laser welding 23 p3710 N84-33518
BASHENKO, V. V.
Certain features of laser welding with penetrating melting 23 p3709 N84-33513
BASHFORD, D. P.
Review report of the third year's activities on the study survey of advanced materials
[R878] 12 p1790 N84-21675
BASHIZADEH-FAKHAR, M.
Transient heat flow across uni-directional fibers in composites
[AD-A131052] 01 p0032 N84-10199
BASHKOVSKIY, A. V.
Amplification of traveling magnetostatic waves by parametric pumping 21 p3479 N84-32050
BASIGLI, A.
Experimental evaluation of the interference of a frequency hopping signal on a television signal 10 p1478 N84-19659
BASILI, V. R.
A methodology for collecting valid software engineering data
[AD-A131332] 02 p0272 N84-11781
Research in programming languages and software engineering
[AD-A136037] 09 p1369 N84-18937
Current research in the Software Engineering Laboratory (SEL) 13 p2026 N84-23138
Monitoring software development through dynamic variables 13 p2027 N84-23139
BASLER, U.
Advanced combustor liner cooling concepts 15 p2292 N84-24756
BASOV, N. G.
Studies of amplifier module in Delfin Facility for heating thermonuclear plasma 20 p3289 N84-30881
Improving energy performance and duty time of production process CW electrical ionization CO2 lasers by using five-component lasing mixtures 21 p3481 N84-32065
BASQUE, G.
Computation of the thermohydraulics in subassemblies for accident situations 06 p0843 N84-15499
BASS, B. R.
Finite element simulation of viscous incompressible flows
[DE84-004355] 10 p1494 N84-19769
BASS, H. E.
Amplification of sound by gas phase reactions
[AD-A133747] 05 p0649 N84-14266
BASS, J. A.
Solar-array-materials passive LDEF experiment (A0171) 15 p2274 N84-24656
BASS, J. N.
Analysis and programming for research in the physics of the upper atmosphere
[AD-A144203] 24 p3919 N84-34811
BASS, L. J.
DATMAN FORTRAN user's guide version 3.0
[PB84-149251] 12 p1885 N84-22289
BASS, M.
Multiple-pulse laser-induced damage in crystaline and fused quartz
[DE83-015458] 01 p0154 N84-11015
Optical properties of metals
[AD-A134285] 07 p1075 N84-16987
Laser chemical vapor deposition
[AD-A137827] 11 p1663 N84-20850
BASS, N.
Techniques in high-temperature resistance thermometry. 1: Construction of the NBS-design high temperature platinum resistance thermometer. 2: Toroidal resistor for high-temperature platinum resistance thermometers
[PB84-164110] 17 p2672 N84-27029
BASS, R. M.
Microwave-enhanced ignition in diesel engines
[AD-A138148] 12 p1791 N84-21682
BASSANI, L.
Multifrequency observations of three active galaxies 24 p3972 N84-35151
BASSETT, B. E.
Decompression procedures for flying after diving, and diving at altitudes above sea level
[AD-A132039] 04 p0572 N84-13771
BASSETT, R. R.
Tubular battery and transistorized controller outdoor laboratory test program
[DE83-016231] 02 p0304 N84-11995
BASSNER, H.
Development, design and testing of the engineering model of the electric propulsion system Radiofrequency Ion Thrust Assembly (RITA)
[BMFT-FB-W-83-017] 07 p0965 N84-16254
Status and future application of the RF-propulsion systems RITA including interplanetary missions
[MBB-UR-646-83-O] 16 p2563 N84-26444
BASSON, J. H.
Surface photoluminescence and it application 06 p0815 N84-15304
BASTA, N. Z.
Geophysical investigations of a geothermal anomaly at Wadi Ghadir, eastern Egypt
[NASA-CR-173527] 14 p2175 N84-24030
BASTIDA, E. M.
Microwave detection of surface and volume moisture in building walls and related structures
[CISE-2111] 16 p2481 N84-25912
BASTIDON, J.
The MIRAGE 2000: Fly by wire control and safety 06 p0777 N84-15093
BASU, R.
Estimating location parameters in a mixture model 03 p0392 N84-12559
BASU, S.
Modelling of ionospheric irregularities and total electron content
[AD-A141236] 18 p2880 N84-28284
Modelling of ionospheric irregularities and total electron content
[AD-A141236] 18 p2880 N84-28284
BATALOV, B. V.
Multi-criteria approach to selection of optimal connections in large-scale integrated circuits 21 p3378 N84-31436
BATANOV, G. V.
Change in immunobiological reactivity under the effect of combined exposure to microwaves, infrasound and gamma radiation 07 p1043 N84-16784
BATCHELOR, A. D.
Precision digital dilatometry: A microcomputer-based approach to sintering studies
[DE84-009794] 19 p3073 N84-29497
BATCHELOR, D. A.
Decimetric gyrosynchrotron emission during a solar flare
[NASA-TM-85123] 06 p0940 N84-16107
Energetic electrons in impulsive solar flares
[NASA-TM-86102] 14 p2251 N84-24519
BATCHELOR, D. B.
Theoretical aspects of throat-launch microwave heating in EBT-S
[DE83-015762] 03 p0438 N84-12875
Detailed modeling of microwave energy deposition in EBT devices
[DE83-017496] 03 p0449 N84-12952
Propagation and absorption of electromagnetic waves in fully relativistic plasmas
[DE83-017246] 03 p0450 N84-12959
Propagation and absorption of electromagnetic waves in fully relativistic plasmas
[DE84-013627] 22 p3660 N84-33204
BATDORF, S. B.
Use of shear lag for composite microstress analysis - rectangular array
[AD-A134165] 07 p0967 N84-16267
Size effect and strength variability of unidirectional composites
[AD-A134171] 07 p0967 N84-16268
Use of shear lag for composite microstress analysis - linear array
[AD-A134174] 07 p0967 N84-16269
BATEMAN, G.
Ripple-reduction poloidal-field coils for Tokamak reactors
[DE83-009532] 03 p0445 N84-12922
Saturated tearing modes in Tokamaks, renewal proposal
[DE84-006851] 14 p2229 N84-24370
BATEMAN, J. P.
A corporate approach to an embedded software development and support standard
[AD-P003589] 21 p3340 N84-31194
BATEMAN, V. I.
Drift prediction for a roll-stabilized inertial measurement system
[AD-P002674] 11 p1657 N84-20811
BATENCHUK-TUSKO, T. V.
Sanitary and hygienic features of cabin environment in Salyut-7 orbital station 15 p2375 N84-25253
BATES, A.
Collapsible photovoltaic-concentrator array portable power from the Sun
[DE84-000713] 04 p0558 N84-13677
BATES, B.
Further studies of nearby high velocity interstellar gas 24 p3973 N84-35157
BATES, C. W., JR.
Spray pyrolysis of cadmium sulfide/copper indium selenide cells
[DE84-004491] 20 p3235 N84-30537
BATES, D. D.
The EBT-S 28-GHz, 200-kW, CW, mixed-mode, quasi-optical plasma heating system
[DE84-014415] 23 p3829 N84-34287

BATES, D. R., JR.
Fault tolerant spaceborne computer
15 p2266 N84-24607
BATES, G. P.
Two decades of air carrier jet operation
06 p0775 N84-15080
BATES, H. E.
Low angle silicon sheet growth: A review of progress, problems and promise 18 p2938 N84-28631
BATES, J.
Use of VAS multispectral data for sea surface temperature determination 12 p1836 N84-21957
BATES, J. B.
Raman measurements of the mobile cation vibrations in Na, K, Ag and Li (ALPHA)'-alumina
[DE83-015697] 06 p0924 N84-16005
Hydration of (BETA)-prime-prime-alumina
[DE83-015696] 07 p1083 N84-17041
BATES, J. J.
Navy tactical applications guide. Operational environmental satellites. Polar-orbiting satellites geostationary satellites, spacecraft, sensors, imagery
[AD-A135466] 08 p1113 N84-17240
BATES, J. L.
Development of materials for open-cycle MHD
[DE83-016334] 03 p0445 N84-12926
Preparation and properties of electrically conducting ceramics based on indium oxide-rare Earth oxides-hafnium oxide 11 p1741 N84-21360
BATES, J. M.
Holographic investigation of thermal nonequilibrium vapor generation
[DE84-011905] 21 p3406 N84-31607
BATES, L.
Twelfth Transducer Workshop
[AD-A137304] 11 p1657 N84-20809
BATES, M.
Research in knowledge representation for natural language understanding
[AD-A134102] 05 p0726 N84-14765
BATES, R. E.
Snow cover and meteorology at Allagash, Maine, 1977 - 1980
[AD-A132013] 03 p0410 N84-12684
BATES, R. L.
Implementation of INTERLISP on the VAX
[AD-A141707] 21 p3465 N84-31967
BATES, S. C.
Experimental results on finite-beta limits and transport in the ISX-B Tokamak
[DE84-000258] 04 p0606 N84-14001
BATES, W. V.
A representational basis for the development of a distributed expert system for Space Shuttle flight control
[NASA-TM-58258] 16 p2544 N84-26328
BATH, G. D.
Interpretations of magnetic anomalies at a potential repository site located in the Yucca Mountain area, Nevada test site
[DE84-013723] 23 p3798 N84-34085
BATH, L. M.
Documentation of NCAR (National Center for Atmospheric Research) CCMOB program modules
[PB83-263996] 05 p0710 N84-14651
BATHKE, C. G.
Modular stellarator reactor: A Fusion power plant
[DE84-002268] 07 p1077 N84-17001
Plasma engineering design of a Compact Reversed-Field Pinch Reactor (CRFPR)
[DE84-004334] 10 p1586 N84-20394
BATHKER, D. A.
RF performance of a proposed L-band antenna system 04 p0519 N84-13410
BATILL, S. M.
An experimental and analytic study of the flow subsonic wind tunnel inlets
[AD-A136865] 13 p1927 N84-22540
BATINA, J. T.
Transonic calculation of airfoil stability and response with active controls
[NASA-TM-85770] 12 p1765 N84-21513
Transonic aeroelastic stability and response of conventional and supercritical airfoils including active controls 17 p2598 N84-26655
BATISTA, G. T.
Sampling system for wheat (Triticum aestivum L) area estimation using digital LANDSAT MSS data and aerial photographs
[E84-10139] 16 p2506 N84-26087
Research and applications of data from environmental satellites: Determining parameters and developing interpretation techniques for applications of environmental satellite data
[INPE-3005-NTE/213] 17 p2711 N84-27261
BATISTA, I. S.
Plasma bubble irregularity occurrence and zonal velocities under quiet and disturbed conditions, from polarimeter observations
[INPE-3023-PRE/461] 12 p1846 N84-22036
Solar cycle related range type spread F occurrence characteristics over equatorial and low latitude stations in Brazil
[INPE-3024-PRE/462] 12 p1846 N84-22037
The variation of range type spread F occurrence with a solar cycle at Fortaleza and Cachoeira Paulista
[INPE-3209-PRE/566] 23 p3797 N84-34080
BATISTA, P. P.
Tidal and solar cycle effects on the OI 5577 angstrom, NaD and OH(8,3)airglow emissions observed at 23 deg S
[INPE-2901-PRE/419] 02 p0248 N84-11620
Tidal oscillations in the atmospheric sodium layer
[INPE-3008-PRE/454] 12 p1846 N84-22033
The night airglow O2(1-Sigma) atmospheric band at 8645A and the rotational temperature observed at 23 deg S
[INPE-3021-PRE/459] 12 p1846 N84-22034
Vertical and horizontal phase propagation in the mesopause region observed by the OI5577 angstrom, O/sub 2 atmospheric band, NaD and OH(8,3) band nightglow emissions
[INPE-3022-PRE/460] 12 p1846 N84-22035
Solar tides in the mesospheric sodium layer
[INPE-2942-TDL/151] 22 p3622 N84-32953
BATIT, G.
Automation of a drop forge at the Centre Techniques des Industries Mecaniques (CETIM) forge section
[CETIM-1.3K.27.3] 21 p3376 N84-31423
Construction of a test bench for closed die forging
[CETIM-5.580.50] 21 p3376 N84-31425
BATLOGG, B.
Impurities in the heavy-Fermion superconductor UBe13
[DE84-001731] 05 p0755 N84-14951
BATRAKOV, F. G.
Influence of wind on rate of gas exchange through ocean-atmosphere interface 17 p2699 N84-27190
BATRAKOV, G. F.
Evaluating parameters of vertical exchange of ocean waters by radioisotopic methods
18 p2858 N84-28146
BATSON, R. M.
Tests of low-frequency geometric distortions in LANDSAT-4 images 20 p3211 N84-30397
Voyager 1 and 2 atlas of six Saturnian satellites
[NASA-SP-474] 24 p3989 N84-35242
BATTAGLIA, A.
Assessment of indoor dose from gamma ray emitters and radon daughters in Milan
[CISE-2118] 07 p1073 N84-16974
BATTAGLIA, F.
Application of the density matrix multipole expansion to stark quantum beats from beam-foil-excited hydrogen atoms
[AD-A133603] 06 p0797 N84-15193
BATTAGLIA, M. R.
A computer program for the prediction of search radar performance
[AD-A131080] 01 p0067 N84-10436
A model of radar propagation and detection
[AD-A139531] 14 p2141 N84-23834
The calculation of the radar vertical coverage diagram
[AD-A143647] 23 p3731 N84-33645
BATTAN, L. J.
The use of radar in modern meteorology
18 p2886 N84-28315
BATTEN, J. J.
Concentration of sulphuric acid: Premature failure of Bamag pots
[MRL-R-885] 08 p1123 N84-17301
BATTERSON, J. G.
Applications of model structure determination to flight test data 11 p1616 N84-20576
BATTERTON, P. G.
Energy efficient engine program contributions to aircraft fuel conservation
[NASA-TM-83741] 20 p3130 N84-29876
BATTESTI, J.
Effect of leap length on the quality of large capacity numerical linkages 15 p2324 N84-24954
BATTIS, J. C.
Seismo-acoustic effects of sonic booms on archeological sites, Valentine Military Operations Area
[AD-A139581] 14 p2146 N84-23862
BATTLES, F.
Investigate and verify the validity of mathematical formulas in relation to data obtained from theoretical investigations and experimental observations
[AD-A137847] 11 p1682 N84-20974
BATTLES, J. E.
Lithium/iron sulfide batteries for electric-vehicle propulsion and other applications
[DE84-004193] 09 p1310 N84-18565
BATTRICK, B.
Software engineering
[ESA-SP-199] 05 p0721 N84-14729
The International Solar Polar Mission: Its scientific investigations
[ESA-SP-1050] 09 p1260 N84-18227
Second-generation Meteosat: System study, executive summary
[ESA-SP-1063] 15 p2371 N84-25224
An atlas of UV spectra of supernovae
[ESA-SP-1046] 15 p2424 N84-25563
Catalog of ESA publications in 1983
[ESA-SP-105] 16 p2567 N84-26470
IUE low dispersion spectra reference atlas. Part 1: Normal stars
[ESA-SP-1052-PT-1] 16 p2576 N84-26531
The effect of gravity on the solidification of immiscible alloys
[ESA-SP-219] 17 p2612 N84-26719
Space laser applications and technologies (SPLAT)
[ESA-SP-202] 24 p3903 N84-34715
Fourth European IUE Conference
[ESA-SP-218] 24 p3970 N84-35135
BATTS, G. W.
Atmospheric environment for space shuttle (STS-8) launch
[NASA-TM-82560] 05 p0708 N84-14636
Atmospheric environment for Space Shuttle (STS-9) launch
[NASA-TM-82572] 14 p2179 N84-24047
Atmospheric environment for Space Shuttle (STS-11) launch
[NASA-TM-82580] 15 p2366 N84-25194
Atmospheric environment for space shuttle (STS-13) launch
[NASA-TM-82588] 19 p3057 N84-29396
BATZER, H.
Relationships between the glass transition, thermodynamic and mechanical values as possible sources of information correlating material properties with chemical structure
[BR-90008] 05 p0644 N84-14238
BAUCHSPIES, J. S.
Aeronautics systems technology studies
[NASA-CR-174572] 02 p0167 N84-11098
BAUCOM, R. M.
Medical clip
[NASA-CASE-LAR-12650-1] 18 p2899 N84-28388
Process of making medical clip
[NASA-CASE-LAR-12650-2] 18 p2899 N84-28389
BAUD, C. A.
Morphometric and biophysical study of bone tissue in immobilization-induced osteoporosis in the growing rat
23 p3809 N84-34152
BAUDET, G. M.
Design and complexity of VLSI algorithms
08 p1208 N84-17876
BAUDRY, T. V.
Using PAFEC as a preprocessor for COSMIC/NASTRAN
[DE83-017179] 03 p0421 N84-12755
Using PAFEC as a preprocessor for COSMIC/NASTRAN 06 p0858 N84-15593
BAUER, B.
Intelligent instruments for process measurement techniques (monitoring of sensors)
[BMFT-FB-T-84-078] 21 p3407 N84-31611
BAUER, C. A.
Project management techniques for highly integrated programs
[NASA-TM-86023] 05 p0757 N84-14965
Identification and estimation of the area planted with irrigated rice based on the visual interpretation of LANDSAT MSS data
[E84-10164] 17 p2710 N84-27256
BAUER, C. L.
A program of research on microfabrication techniques for VLSI magnetic devices
[AD-A131706] 03 p0452 N84-12978
BAUER, F.
Magnetohydrodynamic equilibrium and stability of stellarators
[DE84-010731] 20 p3305 N84-30994
BAUER, G. H.
Technical use of solar energy. Part 1. Thin films solar cells
[BMFT-FB-T-83-298-PT-1] 15 p2362 N84-25172
MoO3, ex MoS2, with further processing of the metal-bearing waste sulfuric acid generated in the process
[BMFT-FB-T-83-297] 15 p2366 N84-25196

BAUER, H.
Testing of coatings in space, Long Duration Exposure Facility (LDEF)
[BMFT-FB-W-84-017] 21 p3353 N84-31269
BAUER, M. A.
Estimation of uncertainty in coal resources
[DE83-902538] 03 p0401 N84-12620
BAUER, M. E.
Remote sensing of agricultural crops and soils
[E84-10107] 12 p1829 N84-21825
BAUER, O. H.
Observation of waves induced by an artificial ion beam in the ionosphere 05 p0635 N84-14176
Dynamics of quasineutral beams 05 p0639 N84-14201
Colored bubbles: An experiment for triggering equatorial spread F 05 p0640 N84-14212
Influence of wake and photoemission on electric field measurements with a double probe on GEOS-2 08 p1116 N84-17261
BAUER, R.
Tricresyl phosphate retention by bearing retainer and reservoir materials
[AD-A143842] 23 p3724 N84-33598
BAUER, S. J.
Mechanical and transport properties of rocks at high temperatures and pressures. Task 3. Mechanical properties of rocks at high temperatures and pressures
[DE84-003438] 08 p1188 N84-17740
BAUERLE, G.
Production of hydrogen from renewable resources
[DE84-000082] 14 p2132 N84-23780
BAUERLE, J. E.
AC measurements on fuel cells and fuel cell components 11 p1741 N84-21362
BAUERSFELD, W. R.
Water resources data for New Jersey, water year 1982. Volume 1: Atlantic Slope Basins, Hudson River to Cape May
[PB84-119726] 09 p1338 N84-18736
Water resources data for New Jersey, water year 1982. Volume 2: Delaware River Basin and tributaries to Delaware Bay
[PB84-119734] 09 p1338 N84-18737
BAUGH, B. T.
Precision manipulator heating and cooling apparatus for use in UHV systems with sample transfer capability
[NASA-CASE-LAR-13040-1] 19 p3026 N84-29191
BAUGHCUM, S. L.
Disappearance rates of C2(a 3 Pi u) and C2(X 1 Sigma g +) with O2 over the temperature range 298-1300 deg K 21 p3373 N84-31405
BAUGHMAN, J. R.
Space Shuttle Orbiter improved auxiliary power unit 20 p3144 N84-29965
BAUGHMAN, L. D.
Development of an interactive computer program to produce body description data
[AD-A133720] 06 p0897 N84-15822
BAUHAHN, P.
The 30-GHz monolithic receive module
[NASA-CR-168326] 11 p1642 N84-20737
BAUKE, W.
Application for surveying technology for the alignment of large optical systems
[DE84-006005] 14 p2225 N84-24353
BAULINA, O. I.
The ultrastructural organization of the blue-green alga microcystis aeruginosa kuetz. Emend. Elenk in connection with toxicogenesis
[AD-A132540] 05 p0712 N84-14662
BAUM, A.
Aftereffects associated with one and two stressors across conditions of complete, partial, or no control
[AD-P003299] 18 p2908 N84-28446
BAUM, B.
Investigation of test methods, material properties and processes for solar cell encapsulants
[NASA-CR-173748] 18 p2870 N84-28219
Investigation of test methods, material properties and processes for solar cell encapsulants
[NASA-CR-173940] 23 p3789 N84-34029
BAUM, C. E.
An anisotropic lens for launching TEM waves on a conducting circular conical system
[AD-A144140] 24 p3893 N84-34656
BAUM, H. R.
Fire induced flows through room openings - flow coefficients
[PB84-176759] 20 p3151 N84-30011
BAUM, K.
Research in energetic compounds
[AD-A137484] 10 p1454 N84-19497
BAUM, W. A.
Post-mission Viking data anaysis
[NASA-CR-173451] 12 p1776 N84-21587
Observations of faint planetary satellites with a charge-coupled device 19 p3120 N84-29832
BAUMAN, F.
The predicted impact of linear roof apertures on the energy performance of office buildings 16 p2514 N84-26133
Computer program for studying turbulent convection in buildings 16 p2517 N84-26155
BAUMAN, W. A.
Aircraft Spare Stockage Methodology (aircraft spares) study
[AD-A142259] 19 p2955 N84-28730
BAUMANN, L. S.
Image Understanding, 14th Workshop
[AD-A130251] 01 p0147 N84-10963
BAUMBACH, J. J.
Space shuttle orbiter reaction control subsystem flight data anomalies 01 p0021 N84-10131
BAUMBICK, R. J.
Fiberoptics for propulsion control system
[NASA-TM-83542] 05 p0625 N84-14111
BAUMEISTER, K. J.
Time dependent wave envelope finite difference analysis of sound propagation
[NASA-TM-83744] 21 p3490 N84-32118
BAUMGAERTNER, A.
Research on the use of metal-organic compounds as photoconductors in electrophotography
[BMFT-FB-T-84-112] 23 p3825 N84-34262
BAUMGARDNER, J.
Optical, radio and computer simulation studies of the Brazil ionospheric modification experiment of 8 September 1982
[AD-A135143] 08 p1186 N84-17731
BAUMGARDNER, M. F.
Aggregating available soil water holding capacity data for crop yield models
[E84-10161] 17 p2710 N84-27253
BAUMGART, C. W.
Near-infrared surface photometry of barred spiral galaxies 17 p2775 N84-27618
BAUMGARTEN, J. R.
Load deflection characteristics of inflated structures
[NASA-CR-174585] 03 p0311 N84-12028
BAUMGARTNER, C. E.
Cathode materials development for carbonate fuel cells
[DE84-010033] 15 p2363 N84-25179
BAUMGARTNER, G. B., JR.
XWVG: A waveguide program for trilinear tropospheric ducts. Computer program for calculating the signal levels of EM (Electromagnetic) waves propagating over seawater
[AD-A133667] 05 p0669 N84-14399
BAUMGARTNER, J. S.
Managing for success in defense systems acquisition
[AD-P002789] 13 p2056 N84-23336
BAUMGARTNER, M. F.
Multitemporal LANDSAT urban area classification 23 p3768 N84-33886
BAUN, W. L.
The study of thin films on semi-insulating gallium arsenide by ellipsometry
[AD-A131844] 03 p0452 N84-12972
BAUNE, M.
Study report on a modular photovoltaic power supply system for space application
[BMFT-FB-W-84-010] 19 p2983 N84-28904
BAUR, G.
Investigation of electro-optical effects in liquid crystals for high information density over a wide temperature range
[BMFT-FB-T-84-120] 23 p3831 N84-34304
BAUR, H.
Numerical simulation and practical testing of a rotation-symmetric ion source for gas mass spectrometers
[DE84-002925] 07 p0970 N84-16288
BAUR, J. F.
High power neutral beam heating on Doublet 3
[DE84-012471] 21 p3501 N84-32186
BAUR, R. G.
Materials properties data base computerization 12 p1889 N84-22303
BAUSCHLICHER, J. M.
Design of a complete multivariable digital flight control system
[AFIT/GE/EE/82D-18] 15 p2253 N84-24532
BAUSER, E.
Silicon liquid phase epitaxy with solution transport by centrifugal forces and investigation and characterization of silicon epitaxial layers by transmission electron microscopy
[BMFT-FB-T-83-097] 02 p0300 N84-11969
BAUSER, M.
Extrusion. State of the art and development, review paper
[RAE-TRANS-2102] 04 p0515 N84-13381
BAUTIN, S. P.
Discharge of ideal gas into vacuum 13 p1970 N84-22785
BAUTISTA, J. J.
Superconducting niobium thin film slow-wave structures 04 p0518 N84-13405
BAVARO, T.
On-orbit performance of LIPS gallium arsenide solar cell experiment 19 p3045 N84-29319
BAVASSANO, B.
Interplanetary Alfvenic fluctuations: A statistical study of the directional variations of the magnetic field
[IFSI-82-14] 03 p0463 N84-13050
Interplanetary Alfvenic fluctuations: A statistical study of the directional variations of the magnetic field 03 p0467 N84-13076
Evidence for long period Alfven waves in the inner solar system
[IFSI-84-9] 18 p2953 N84-28719
BAVISTER, H. V.
Harwell research into the oxidation of metals: A summary
[AERE-E-11155] 18 p2816 N84-27881
BAVUSO, S. J.
Reliability and maintainability assessment factors for reliable fault-tolerant systems 11 p1616 N84-20574
Care 3: Hands-on demonstration and tutorial
[NASA-TM-85811] 17 p2749 N84-27448
CARE 3: Model overview and user's guide
[NASA-TM-85810] 18 p2920 N84-28514
BAWN, W. E., JR.
Small wind systems field evaluation. Volume 3: Utility issues
[DE84-006919] 15 p2365 N84-25190
BAXLEY, B. D.
A sine-wave grating controller for vision testing
[AD-A135871] 09 p1318 N84-18610
BAXTER, D. C.
d-d Tokamak reactor assessment
[DE83-016127] 04 p0609 N84-14019
BAXTER, D. J.
Corrosion behavior of Fe-Cr-Ni-Zr alloys in aggressive environments at high temperatures
[DE83-014735] 03 p0353 N84-12297
Breakaway corrosion in mixed-gas environments
[DE83-014704] 03 p0354 N84-12299
The influence of Al2O3 and surface scales on alloy degradation at elevated temperatures
[DE84-007299] 15 p2298 N84-24794
Improved oxidation sulfidation resistance of Fe-Cr-Ni alloys
[DE84-010066] 20 p3156 N84-30039
Oxidation-sulfidation behavior of Fe-Cr-Ni alloys containing additions of Zr, Nb, or Ti
[DE84-005411] 20 p3156 N84-30043
BAXTER, D. V.
EXAFS studies of the metallic glass La80Ga20
[DE84-002022] 06 p0811 N84-15278
BAXTER, L. J.
Nitroguanidine wastewater pollution control technology: Phase 2 wastewater characterization and analytical methods development for organics
[AD-A141176] 18 p2811 N84-27844
BAXTER, V. D.
Comparison of field performance of a high efficiency heat pump with and without a desuperheater water heater
[DE84-005816] 11 p1653 N84-20795
BAYARD, C.
Radial thermomechanical behaviour
[BLL-OA-TRANS-2639-(6196.3)] 04 p0533 N84-13503
BAYEC, Y.
Non-Newtonian intrinsic viscosity of rigid ellipsoid solutions
[BLL-WH-570-(9091.9F)] 01 p0138 N84-10903
BAYER, G.
Physical and chemical investigations on real catalyst surfaces
[BMFT-FB-T-83-273] 13 p1958 N84-22729
BAYEV, V. K.
Gasdynamic study of model with combustion in shock tunnel 21 p3481 N84-32061
BAYEVSKIY, R. M.
Contributions of space medicine to medical research 14 p2251 N84-24517
BAYKA, A. D.
A droplet evaporation rate controlled combustion model 15 p2293 N84-24761

BAYKAL, Y. K.
Coherence and turbulence effects on the intensity scintillations at optical frequencies
01 p0146 N84-10960

BAYKOV, V. V.
Increasing fusion efficiency in laser welding with dynamic beam focusing
23 p3710 N84-33516

BAYLE-LABOURE, G.
Predicting combustor efficiency and stability performances
15 p2294 N84-24765

BAYLISS, A.
On accuracy conditions for the numerical computation of waves
[NASA-CR-172433] 22 p3645 N84-33111

BAYNE, C. K.
Assessment of Fisher and logistic linear quadratic discrimination models
[ORNL/CSD-TM-200] 06 p0904 N84-15865

BAYRAKOVSKIY, G. M.
Introduction of productive welding and surfacing technological processes to production of nuclear powerplant equipment
12 p1787 N84-21655

BAZANOVA, Y. I.
Effect of laminated structure in materials based on complexes with charge transfer
18 p2826 N84-27943

BAZANT, Z. P.
Blunt-crack band propagation in finite-element analysis for concrete structures
[DE83-010726] 01 p0097 N84-10632
Mechanics of geomaterials: Rocks, concretes, soils. Preprints, William Prager Symposium
[PB84-112812] 09 p1297 N84-18482

BAZHENOV, V. G.
Study of large viscoplastic strains in cylindrical shells by method of magnetic-pulse loading
13 p1972 N84-22798

BAZIN, C.
New results of the ACO storage ring free electron laser
[AD-A137785] 11 p1663 N84-20848
Progress and problems in storage ring free electron lasers
[AD-A138683] 13 p1995 N84-22946

BAZYK, A.
Discussion of superplasticity effect
24 p3876 N84-34563

BAZZANO, E.
The Centro Informazioni Studi Esperienze (CISE) activity in background radioactivity
[CISE-2070] 05 p0701 N84-14599
Assessment of indoor dose from gamma ray emitters and radon daughters in Milan
[CISE-2118] 07 p1073 N84-16974

BEACH, G. L.
The 19 March 1982 eruption and lahar at Mount Saint Helens: Implications for Martian outflow channels?
13 p2083 N84-23495
Drainage evolution in the debris avalanche deposits near Mount Saint Helens, Washington
13 p2083 N84-23496

BEACH, R. F.
Electric vehicle propulsion alternatives
[NASA-TM-83504] 10 p1529 N84-20017

BEACHER, B. F.
Investigation of small particle trajectories through turbomachinery environments
05 p0630 N84-14142
Subsonic/transonic stall flutter investigation of a rotating rig
[NASA-CR-174625] 23 p3695 N84-33417

BEAL, E. J.
Liquid and solid phase compositions in a partially frozen jP-5 fuel low in n-alkanes
[AD-A143390] 22 p3561 N84-32553

BEAL, R. B.
New approach to the generation of metal-bearing, medium-pore, shape-selective zeolites for Fischer-Tropsch catalysis: Spectroscopic studies of zeolites
[DE83-014344] 03 p0347 N84-12254

BEAL, R. C.
900 km of digital ocean wave spectra from the SEASAT SAR
07 p0990 N84-16415
SPECTRASAT: A concept for the collection of global directional wave spectra
17 p2712 N84-27265
Tracking ocean wave spectrum from SAR images
17 p2714 N84-27277
The information content of spaceborne SAR ocean image spectra
23 p3771 N84-33905
Comparison of ocean wave energy measured by SEASAT synthetic aperture radar with SAR surface wave imaging theories
23 p3771 N84-33908
Spectrasat: A concept for the collection of global directional wave spectra
23 p3782 N84-33981

BEALE, E. M. L.
The use of reciprocal polar co-ordinates in passive tracking
[AD-P002906] 13 p1981 N84-22860

BEALE, W.
Recent advances in design of low cost film concentrator and low pressure free piston Stirling engines for solar power
18 p2875 N84-28253

BEALE, W. T.
SPIKE-2: A practical Stirling engine for kilowatt level solar power
18 p2873 N84-28239

BEALL, J. M.
The local wavenumber spectrum and its applications in turbulence and noise
05 p0672 N84-14417

BEAMAN, G. R.
An investigation into the sand erosion technique as a means of determining the wind environment around buildings
[BU-294] 15 p2306 N84-24832

BEAMAN, R. L.
The determination of the Bodner material coefficients for indium 718 and their effects on cyclic loading
[AD-A141174] 18 p2814 N84-27861

BEAN, S. J.
On obtaining physical meaning from the parameters in the Weibull distribution
[AD-A138574] 13 p2036 N84-23206
A comparison of several alternatives to maximum likelihood for the Weibull distribution
[AD-A138721] 13 p2036 N84-23208

BEANLAND, M. H.
Development testing: Use of sea level test beds and rigs
16 p2453 N84-25726

BEAR, R. L.
Study of aerodynamic technology for single-cruise-engine V/STOL fighter/attack aircraft
[NASA-CR-166269] 19 p2961 N84-28767

BEARD, R. E., JR.
A method for designing computer support documentation
[AD-A134460] 07 p1055 N84-16831

BEARD, R. M.
Quick Deployment Vehicle (QDV)
[AD-D011060] 22 p3563 N84-32563

BEASLEY, G. P.
NASA Aircraft Controls Research, 1983
[NASA-CP-2296] 11 p1615 N84-20567

BEASLEY, K. D.
Optical and electrical characterization of multiply doped silicon: A study of the Si:(In, Al) system
[AD-A143820] 23 p3830 N84-34294

BEASLEY, M. R.
Superconducting niobium thin film slow-wave structures
04 p0518 N84-13405
Report of significant accomplishments. Joint services electronics program of the Edward L. Ginzton laboratory
[AD-A133360] 07 p0998 N84-16469
RF properties of superconducting A-15 compounds
[AD-A139067] 13 p2047 N84-23285
Superconducting and semiconducting properties of electron-beam evaporated materials
[DE84-013470] 23 p3830 N84-34296

BEASLEY, R. D.
Third generation MIL-STD-1553B LSI chip set
[AD-P003542] 21 p3333 N84-31146

BEASLEY, W. D.
Recent modifications and calibration of the Langley low-turbulence pressure tunnel
[NASA-TP-2328] 18 p2785 N84-27675

BEAT, T. G.
Vacuum outgassing of various materials
[DE84-001449] 04 p0495 N84-13247
Vacuum outgassing of various materials
[DE84-004812] 11 p1626 N84-20644

BEATTIE, D. H.
The behaviour of the 3.28 micron dust feature in NGC 2024
16 p2571 N84-26498
The behaviour of the 3.28 micron dust feature in NGC 2024
18 p2949 N84-28696

BEATTIE, E. C.
HYTESS: A hypothetical turbofan engine simplified simulation
[NASA-TM-83561] 07 p0954 N84-16184
Propulsion control technology
11 p1619 N84-20600

BEATTIE, J. M.
Cardiac chamber volumes by echocardiography using a new mathematical method: A promising technique for zero-G use
09 p1358 N84-18874

BEATTIE, K. R.
Noise measurement flight test: Data-analyses Aerospatiale SA-365N Dauphin 2 helicopter
[AD-A143229] 22 p3652 N84-33151

BEATTIE, M. A.
Metabolic characteristics of post-exercise ketosis: The protective effects of training
10 p1549 N84-20152

BEATTY, J.
Adaptive noise cancellation in neuromagnetic measurement systems
[AD-A132547] 05 p0684 N84-14494
Neuromagnetic localization of two components of the transient visual evoked response to patterned stimulation
[AD-A132546] 05 p0712 N84-14667
Magnetoencephalography
[AD-A132496] 05 p0712 N84-14668

BEATTY, M. F.
Nonlinear vibrations of a rubber support system constrained by a fixed surface
15 p2313 N84-24878

BEATTY, S. A.
United States Air Force Academy, Department of Chemistry research: AY 1982-83
[AD-A141015] 18 p2808 N84-27828

BEATTY, T. D.
Advanced prediction technique for the low speed aerodynamics of V/STOL aircraft. Volume 1: Technical discussion
[NASA-CR-166442-VOL-1] 17 p2600 N84-26662
Advanced prediction technique for the low speed aerodynamics of V/STOL aircraft. Volume 2: User's manual
[NASA-CR-166442-VOL-2] 17 p2600 N84-26663

BEATTY, V. R.
Vibration test environments for electronics mounted in a remotely piloted vehicle
10 p1513 N84-19903

BEAUCHAMP, D. F.
Telecommunications and data acquisition systems support for Voyager missions to Jupiter and Saturn, 1972-1981, prelaunch through Saturn encounter
[NASA-CR-174571] 02 p0183 N84-11186

BEAUCHAMP, E. K.
Densification of shock-treated aluminum nitride and aluminum oxide
[DE84-003251] 07 p0968 N84-16273

BEAUCHAMP, J. J.
Assessment of Fisher and logistic linear quadratic discrimination models
[ORNL/CSD-TM-200] 06 p0904 N84-15865

BEAUCHAMP, R. H.
Analytical characterization of coatings and thin overlayers
[DE84-011902] 21 p3371 N84-31389

BEAUDET, R. W.
A distributed data base management facility for the CAD/CAM environment
12 p1890 N84-22305

BEAUDRY, D.
Depositional history and structural evolution of a sedimentary basin in a modern forearc setting, western Sunda Arc, Indonesia
13 p2014 N84-23068

BEAUFILS, D.
Development of normalized operative mode for making deposits for chemical analysis in MIG/MAG welding
[CETIM-I.S.13.826] 21 p3362 N84-31331

BEAUHAIRE, G.
Calorimetric and thermogravimetric analysis applied to industrial polymers
[SNIAS-841-551-101] 21 p3372 N84-31399

BEAUJEAN, R.
Measurement of heavy cosmic-ray nuclei on LDEF (M0002-2)
15 p2276 N84-24664

BEAUMONT, P. W. R.
Deformation and fracture maps for polymer-foams, solid polymers and polymer-composites
[AD-A141197] 18 p2818 N84-27893

BEAUPRE, G. S.
SH wave propagation in a laminated composite
11 p1627 N84-20646

BEAVEN, A.
The neutron induced embrittlement of reactor pressure vessel steels and ferritic alloys
[AD-B080746] 15 p2295 N84-24770

BEAVER, B.
Positive biharmonic functions
04 p0575 N84-13786

BEAVER, G. M.
Atom-jump versus continuous models for fast ion conduction
11 p1741 N84-21357

BEAVER, P. W.
The need for biaxial fatigue testing at A.R.L.
[AD-A143203] 22 p3611 N84-32878

BEAVERS, G. S.
Nonuniqueness and stability of the configuration of flow of immiscible fluids with different viscosities
[AD-P002937] 14 p2196 N84-24177

BEBEE, J. L.
Development of a document preparation staff within an office automation environment
[DE84-008649] 20 p3313 N84-31041

BEBERMEIER, H.
Development of technologies for very thin solar cells
[BMFT-FB-W-83-024] 08 p1181 N84-17694

Silicon solar cells: Development and qualification of thin (50 to 100 micron) and large area (5 cm x 5 cm) high efficiency cells
[BMFT-FB-W-84-016] 21 p3436 N84-31798

BEC-BORSENBERGER, A.
The S-9 ephemeride of Phoebe with an analysis pf the observation 19 p3119 N84-29826

BECHER, P. F.
Transformation toughened and whisker reinforced ceramics
[DE84-003281] 07 p0979 N84-16346
Improvements in mechanical properties in SiC by the addition of TiC particles
[DE84-012352] 21 p3358 N84-31297

BECHHOFER, R. E.
The Jack Kiefer-Jacob Wolfowitz Memorial Statistical Research Conference
[AD-A136490] 09 p1381 N84-19021
An optimal sequential Bernoulli selection procedure
[AD-P003841] 24 p3939 N84-34929

BECHLARS, J.
BIZEPS and raster graphics 07 p1018 N84-16603

BECHTOLD, J.
Quasars as probes of the intergalactic medium 24 p3972 N84-35154

BECHTOLD, W. A.
The hardwood resource on nonindustrial private forest land in the southeast Piedmont
[PB83-252759] 04 p0556 N84-13663

BECIA, P.
Infrared nonlinear optics 22 p3682 N84-33346

BECK, D. R.
Properties of 3-dimensional energetic solids and molecular crystals
[AD-A137927] 11 p1744 N84-21382

BECK, J. V.
Transient-temperatures-measurement errors
[DE83-006300] 01 p0085 N84-10549
Rectangular heat source on a semi-infinite solid: An analysis of a thin film heat flux gage
[DE84-012234] 22 p3599 N84-32796

BECK, J. W.
Cryogenic wind tunnel technology. A way to measurement at higher Reynolds numbers
[NASA-TM-77481] 24 p3857 N84-34451

BECK, R.
Particle impact erosion. Volume 3. User's manual chamber flowfield code (CFC) and Charring Material Ablation-Erosion (CMAE) code
[AD-A131007] 02 p0186 N84-11208

BECK, R. A. S.
Aerodynamic heating computations for projectiles. Volume 3: BRL interactive plotting program (BRLINPLOT)
[AD-A143254] 22 p3532 N84-32361

BECK, R. W.
Managing aircraft/simulator concurrency
[AD-P003463] 21 p3511 N84-32240

BECK, T. R.
Development of multicomponent transport theory and transport data for membranes in 'concentrated electrolytes
[DE84-001846] 04 p0495 N84-13249
Determination of the effect of composition, structure and electrochemical mass transport properties on adhesion and corrosion inhibition of paint films
[AD-A138487] 12 p1801 N84-21746

BECK, W.
Superplastic transformation and diffusion welding of titanium alloys 14 p2094 N84-23562

BECK, W. E.
Integrated technology wing design study
[NASA-CR-3586] 23 p3693 N84-33402

BECKER, A.
Analysis of airborne electromagnetic systems for mapping thickness of sea ice
[AD-A139786] 15 p2373 N84-25235

BECKER, B. R.
Finite element simulation of viscous incompressible flows
[DE84-004355] 10 p1494 N84-19769

BECKER, C.
Observations of fast magnetospheric echoes of artificially injected electrons above an auroral arc
[BMFT-FB-W-84-014] 19 p3055 N84-29390

BECKER, E. J.
Grit blasting a distributed roughness based on a 30% probability of exceedence
[AD-A138779] 13 p1974 N84-22809

BECKER, F.
Transonic noise generation by duct and profile flow
[AD-A129367] 06 p0908 N84-15899
Automatic evaluation of interferograms
[NASA-TM-76953] 11 p1731 N84-21291
Initial experiments on profile vortex interaction
[MPIS-6/1983] 12 p1766 N84-21520
Development of a device for evaluation of interferograms
[BMFT-FB-T-84-097] 21 p3407 N84-31613

BECKER, F. E.
Open-cycle vapor compression heat pump
[PB83-228429] 01 p0059 N84-10384

BECKER, H.
Flexible manufacturing line for aircraft structures of sheet metal
[BMFT-FB-W-84-011] 19 p2955 N84-28731

BECKER, H. J.
Photometric and positional accuracy of the PDS Bonn in view of astronomical requirements 18 p2839 N84-28023

BECKER, J. J.
Superplasticity in thermomechanically processed high magnesium aluminum-magnesium alloys
[AD-A143164] 21 p3366 N84-31356

BECKER, J. R., JR.
Potential applications of cable television (CATV) to the FEMA (Federal Emergency Management Agency) communications mission
[AD-A131326] 02 p0209 N84-11367

BECKER, K.
COMFLO: An experimental program for multigrid treatment of subsonic potential flows past airfoil profiles
[PREPRINT-604] 10 p1423 N84-19302

BECKER, K. E.
Prototype fiber optic system to remote TRACALS radar
[AD-A132073] 03 p0360 N84-12341

BECKER, M.
Reports on cartography and geodesy. Series 2: Translations, number 41. Report on high precision gravimetry, volume 2
[ISSN-0469-4244] 19 p3043 N84-29306

BECKER, P. J.
Fundamentals and physical limits of holographic memories with and without associative recall
[BMFT-FB-DV-83-002] 02 p0225 N84-11475

BECKER, R.
Relationship between the glass transition temperature and the chemical structure of polymers
[RAE-LIB-TRANS-2098] 04 p0505 N84-13312
Detinning of tin plate scrap
[BMFT-FB-T-84-045] 16 p2466 N84-25805

BECKER, R. C.
Wideband monolithic microwave amplifier study
[AD-A136424] 09 p1318 N84-18608

BECKER, R. J.
Laser diagnostic development and measurement and modeling of turbulent flowfields of jets and wakes. Part 3: The development of a 2-channel CW Time-Resolves Laser Raman Spectroscopy (TiLaRS) system for measurements in gas flowfields
[AD-A134693] 08 p1159 N84-17544

BECKER, R. L.
Progress in numerical calculations of ion-atom collisions
[DE84-003405] 08 p1229 N84-18033
Learning from numerical calculations of ion-atom collisions
[DE84-003265] 08 p1229 N84-18035

BECKER, S.
Economic analysis model program user's manual (Burroughs version)
[AD-A135950] 09 p1405 N84-19182
Computer generation of plan of action and milestone schedule
[AD-A137057] 10 p1564 N84-20244

BECKER, S. A.
Role of the radiation pressure gradient in giant and supergiant star evolution
[DE84-001715] 05 p0763 N84-15007
Comparisons between observational color-magnitude diagrams and synthetic cluster diagrams for young star clusters in the Magellanic Clouds
[DE84-001870] 07 p1089 N84-17085
Cepheid evolution
[DE84-014027] 23 p3839 N84-34352

BECKERLE, J. D.
Chemical reaction dynamics at surfaces 22 p3681 N84-33340

BECKERS, J. M.
Innovative research in the design and operation of large telescopes for space: Aspects of giant telescopes in space 17 p2765 N84-27560

BECKETT, P.
Increased aircraft survivability using direct voice input 06 p0778 N84-15100

BECKMAN, B. C.
Faint galaxies in the Coma cluster: Luminosity function and spatial distribution 03 p0464 N84-13053

BECKMAN, J. E.
Use of high resolution IUE spectra of MG 2 in cool stars to probe the local interstellar medium 24 p3973 N84-35156
An upper limit to the Beryllium abundance in the population 2 star HD 140283 from a high resolution IUE spectrum 24 p3974 N84-35167

BECKMAN, R. J.
Investigation of an empirical probability measure based test for multivariate normality
[DE84-012626] 22 p3649 N84-33135
Monte Carlo estimation under different distributions using the same simulation
[DE84-012438] 22 p3649 N84-33136

BECKMAN, W. A.
A correction factor to f-chart predictions of active solar fraction in active-passive heating systems 16 p2513 N84-26127

BECKMANN, K.
Eight years of in orbit experience with the HELIOS solar probe thermal control subsystem 10 p1446 N84-19445

BECKMANN, P.
Secondary ion emission from adsorbate layers on polycrystalline Ni 06 p0815 N84-15306

BECKSTEAD, J. W.
Problem analysis and definition in act generation
[AD-A137978] 13 p2022 N84-23111

BECKWITH, I. E.
Correlations of supersonic boundary-layer transition on cones including effects of large axial variations in wind-tunnel noise
[NASA-TP-2229] 08 p1157 N84-17534

BECKWITH, P. J.
Characteristics of a plasma-injection-controlled discharge for CO2 mixing lasers
[MRL-R-922] 16 p2497 N84-26020
Passive countersurveillance: An overview 24 p3914 N84-34781
Two approaches to the instrumental estimation of detectability 24 p3915 N84-34789

BECLA, P.
Infrared nonlinear processes in semiconductors
[AD-A141032] 18 p2940 N84-28649

BECLE, J. P.
New TPS calibration bench, and ejector tests 14 p2099 N84-23594

BECRAFT, W. R.
A proposed RF-technology R/D plan for the United States
[DE84-000643] 04 p0522 N84-13434

BEDER, E. C.
Super integrated power unit for fighter aircraft 03 p0335 N84-12183

BEDFORD, A. J.
Results from an experimental railgun system: ERGS-1A
[MRL-R-875] 05 p0743 N84-14879
Experimental electromagnetic launchers at MRL
[MRL-R-894] 08 p1150 N84-17482
Performance results of a small-calibre electromagnetic launcher
[MRL-R-917] 16 p2483 N84-25924

BEDFORD, C. D.
Organometallics in high energy chemistry
[AD-A135715] 09 p1275 N84-18323

BEDNENKO, B. S.
Evaluation of some hemodynamic parameters of pilots during flights 15 p2376 N84-25256

BEEBE, L.
Integrated Computer-Aided Manufacturing (ICAM) architecture, part 3. Volume 7: MFG01 glossary
[AD-A144426] 24 p3947 N84-34991

BEECHAN, C. M.
Synthesis of perfluoroalkylene dianilines
[NASA-CR-168004] 02 p0189 N84-11228

BEEMSTERBOER, G. L.
Turbine engine lubricant reclamation
[AD-A135926] 09 p1288 N84-18410

BEENKEN, H.
Study on the effects of niobium, vanadium, titanium and/or rare Earth metals on the properties and processing of high-tensile, weldable structural steels
[BMFT-FB-T-83-318] 15 p2295 N84-24775

BEERBOWER, A.
What's so hot about formulated synthetics? 14 p2155 N84-23909

BEERI, C.
On acyclic database decompositions
[AD-A135105] 08 p1209 N84-17887

BEERS, T. C.
Dynamical studies of clusters of galaxies 17 p2775 N84-27619

BEESON, P. M.
Dielectric breakdown of MXB-71 phenolic and Sylgard 184/GMB silicone at high temperature
[DE83-016768] 02 p0201 N84-11312
BEESTON, J. M.
Comparison of compression properties and swelling of beryllium irradiated at various temperatures
[DE84-000597] 04 p0500 N84-13277
BEETS, D.
Very large scale integration logical and physical structures of VLSI systems
[BMFT-FB-T-83-267] 10 p1488 N84-19730
BEEUWKES, R., JR.
Simple probability functions with finite distribution limits: The radical functions
[AD-A131576] 02 p0285 N84-11865
The analysis of crack growth data with application to trip steel
[AD-A132021] 03 p0389 N84-12535
Interdependence of equivalent steady stress, crack growth and failure on sequence and amplitude of irregular loading
[AD-A142951] 21 p3422 N84-31707
BEEVERS, C. J.
Effect of preferred orientation on crack growth properties of Ti-6Al-4V alloys, part 2
[BR89101-PT-2] 15 p2296 N84-24780
Effect of preferred orientation on crack growth properties of Ti-6Al-4V alloys, part 1
[BR89100-PT-1] 15 p2299 N84-24802
BEEVERS, H.
Respiration of roots response to low O2 stress
[DE83-017495] 04 p0572 N84-13766
BEEX, A. A. L.
Recursive interpolation of space-limited scenes
[AD-A136215] 09 p1379 N84-19007
BEEZHOLD, W.
Magnetic trapping of intense ion beams
[DE83-017356] 03 p0437 N84-12866
BEGELINGER, A.
Study of the lubrication mechanism of thin film lubricated concentrated steel contacts. The influence of pre-treatment of the steel on the load carrying capacity
[AD-A135067] 08 p1166 N84-17593
BEGHIN, C.
The experiment Phenomena Induced by Charged Particle Beams (PICPAB) on board Spacelab 1
05 p0641 N84-14220
BEGNI, G.
Investigation of LANDSAT D Thematic Mapper geometric performance: Line to line and band to band registration
[E84-10187] 21 p3429 N84-31758
BEHANNON, K. W.
Saturn's outer magnetosphere
[NASA-TM-85105] 01 p0165 N84-11084
Large-scale interplanetary magnetic fields: Voyager 1 and 2 observations between 1 AU and 9.5 AU
[NASA-TM-86088] 18 p2952 N84-28712
Interactive digital signal processor
[NASA-TM-83997] 24 p3944 N84-34974
BEHL, Y. K.
Speed-dependent collision effects on radar back-scattering from the ionosphere
[NASA-CR-173077] 03 p0359 N84-12336
BEHNEN, S. W.
Achieving the benefits of modular avionics design
[AD-P003562] 21 p3336 N84-31167
BEHNING, F. P.
Effect of a rotor wake on heat transfer from a circular cylinder
[NASA-TM-83613] 12 p1815 N84-21832
BEHR, H. D.
The spatial and temporal distribution of diffuse and direct solar radiation in the Federal Republic of Germany
[BMFT-FB-T-84-125] 23 p3802 N84-34110
BEHRENDT, J. C.
Speculations on the petroleum resources of Antarctica
14 p2160 N84-23938
Geophysical investigations of the Dufek intrusion and the surrounding region 14 p2161 N84-23945
BEHRENS, H.
Guides to aerospace research and development in NATO countries. Bibliography
[AGARD-R-718] 12 p1920 N84-22509
Report on measurements of terrestrial radiation in the Schwandorf area and the radiological load of the river Naab
[GSF-A-6/83] 16 p2520 N84-26180
BEHRER, P. C.
Improved acrylic systems for rapid runway repair
[AD-A130369] 01 p0016 N84-10103
BEHRIN, E.
Design analysis of an aluminum-air battery for vehicle operations: Transportation systems research
[DE83-014488] 01 p0163 N84-11071
BEHRINGER, D. W.
Hydrographic station data of five surveys of the beta-triangle in the eastern North Atlantic, 1978 - 1981
[PB84-100874] 08 p1196 N84-17800
BEHRISCH, R.
Synergistic effects in plasma surface interactions
[DE84-012346] 22 p3660 N84-33199
BEHUNEK, J. L.
Determination of cloud parameters for NEROS 2 from digital satellite data
[PB84-162601] 14 p2182 N84-24075
BEICHMAN, C. A.
Neutral carbon in the Egg Nebula (AFGL 2688)
[NASA-TM-84360] 16 p2574 N84-26518
BEIER, W.
Reaction kinetics in glass melts. Corrosion of SiO-2. TEXUS 4 project 18 p2819 N84-27900
BEIMS, W. G.
Pressure measurements in a rapidly rotating and coning, highly viscous fluid
[AD-A136824] 10 p1491 N84-19753
BEINKAFNER, K. J.
Deformation of the subsurface silurian and devonian rocks of the southern tier of New York State
23 p3795 N84-34067
BEIRAO-DA-VEIGA, H.
Diffusion on viscous fluids, existence and asymptotic properties of solutions
[AD-A134538] 07 p1063 N84-16891
BEISSNER, F. L., JR.
Application of near-term technology to a Mach 2.0 variable-sweep-wing, supersonic-cruise executive jet
[NASA-CR-172321] 14 p2104 N84-23621
BEITELMAN, A. D.
Stabilization of the solvent Methyl-n-Amyl Ketone (MAK) in vinyl paints
[AD-A131059] 01 p0050 N84-10323
BEITSCHER, S.
Further abbreviation of the machining schedule for producing surface-damage-free beryllium
[DOE/TIC-4500-REV-69] 06 p0814 N84-15297
BEITZ, W.
Shaft-hub deformation analysis by means of holography
[SCHR-KONSTR.TECH-5] 19 p3028 N84-29204
BEITZELL, J.
Source hierarchy list. Volume 1: A through H
[AD-A143500] 22 p3674 N84-33291
Source hierarchy list. Volume 2: I through Z
[AD-A143501] 22 p3674 N84-33292
BEJAN, A.
Analytical prediction of turbulent heat transfer parameters
[AD-A137515] 10 p1491 N84-19752
BEJAR, I. I.
Speculations on the future of test design
[AD-A142662] 20 p3263 N84-30699
BEJCZY, A. K.
Optical fiber tactile sensor
[NASA-CASE-NPO-15375-1] 02 p0293 N84-11921
BEKEFI, G.
Microwave emission from relativistic electron beams
[AD-A137752] 11 p1730 N84-21285
Plasma studies on ion diodes
[AD-A142183] 19 p3107 N84-29743
Plasma dynamics 22 p3683 N84-33354
BEKUZAROV, A. K.
Individual responses to combined heat and physical load 18 p2896 N84-28374
BELAKOVSKIY, M. S.
Use of vitamins during adaptation to high altitudes
20 p3252 N84-30643
BELAND, R. R.
The temperature sensitivity of doubly rotated quartz resonators
[AD-A142537] 20 p3178 N84-30186
BELCASTRO, C. M.
Evaluation of a total energy-rate sensor on a transport airplane
[NASA-TP-2212] 03 p0332 N84-12164
Data and results of a laboratory investigation of microprocessor upset caused by simulated lightning-induced analog transients
[NASA-TM-85821] 17 p2733 N84-27376
BELCHANSKIY, G. I.
Remote sensing of the Earth and agriculture
05 p0634 N84-14167
BELCHENKO, Y. I.
Pulsed high-current source of negatively charged hydrogen ions
[DE84-012989] 21 p3496 N84-32158
BELDE, A. P.
Resonance in the water circuit of a cooling tower
[S/T-REPT-VOL-1-NO-2] 20 p3188 N84-30254
BELENKIY, Y. M.
Control computer and automation subsystem equipment in Delfin Facility 20 p3289 N84-30880
BELFORD, D. J.
Tertiary foraminifera and age of sediments, Ok Tedi-Wabag, Papua New Guinea
[BMR-BULL-216] 23 p3797 N84-34078
BELIAN, R. D.
A determination of the charge state of energetic magnetospheric ions by the observation of drift echoes
[AD-A143181] 22 p3623 N84-32954
BELIKOV, V.
Antonov Bureau developing new STOL turbofan for use in far north 18 p2790 N84-27710
BELIMENKO, L. D.
Effect of annealing under thermodynamically stable conditions on the formation and transformation of structural defects in diamond monocrystals
[CSIR-TRANS-1737] 23 p3829 N84-34288
BELINSKIY, V. S.
Strength of hard alloy elements of high pressure apparatus for synthesis of superhard materials
12 p1785 N84-21647
BELITSKIY, B. M.
Concerning the possibility of employing superconducting systems for analyzing the composition of cosmic rays
[AD-A133792] 05 p0765 N84-15021
BELITZ, H. J.
Meteorological measurements in the Northern German coastal area for wind energy prospection
[BMFT-FB-T-84-017] 16 p2529 N84-26241
BELKANIYA, G. S.
Experimentally produced biped monkeys as a model for multipurpose research in gravity biology and physiology
07 p1047 N84-16789
Structural distinctions of thyroid C cells and parathyroid glands of primates during head-down hypokinesia
15 p2377 N84-25263
Walking erect as a factor in development of arterial hypertension in primates 20 p3253 N84-30645
BELKHOUCHE, B.
Automatic synthesis of abstract data type implementations from abstract specifications
08 p1211 N84-17896
BELKOVSKIY, M. S.
Fluid intake at high altitudes 07 p1044 N84-16772
BELL, B. A.
Reference flat pulse generator
[PB84-162163] 17 p2672 N84-27030
BELL, C. B.
Signal detection for same-shape families of non-homogeneous Poisson processes
[AD-A135032] 08 p1217 N84-17942
BELL, D. J.
Investigate alternative interconnection strategies for arrays of wind turbine generators
[ORNL/SUB-82-69604/1] 16 p2512 N84-26120
BELL, H. H.
Pilot orierfted performance measurement
[AD-P003450] 21 p3508 N84-32227
BELL, H. H., JR.
Gas box control system for tandem mirror experiment upgrade
[DE84-003245] 07 p1078 N84-17008
BELL, J. F.
Recent comet impacts on the moon: The evidence from spectral reflectance studies 13 p2076 N84-23453
BELL, J. L.
DTIC 2000: A corporate plan for the future
[AD-A143900] 23 p3835 N84-34327
BELL, J. P.
Competition as an acquisition strategy: Impact of competitive research and development on procurement costs
[AD-A141313] 18 p2944 N84-28667
BELL, J. R.
Adhesive bond and composite strength screening system developmental study
[FZM-7184] 20 p3161 N84-30073
BELL, K. R.
Incorporation of remotely sensed soil moisture data into a hydrologic runoff model 13 p2007 N84-23017
BELL, M. A.
Catalog of the Oak Ridge National Laboratory Meteorological Tape Library
[DE83-017493] 01 p0162 N84-11067
BELL, R. A.
Development of low cost filler materials for welding high strength steels
[AD-A141724] 19 p2994 N84-28973
BELL, R. E.
An extreme ultraviolet study of Tokamak plasmas using a time-resolving spectrograph 05 p0748 N84-14915

BELL, R. L.
Development of a corrosion control, nonemissive paint for the protection of bilge spaces
[AD-A136270] 09 p1287 N84-18402
Development of mechanically-stacked multijunction solar cell for concentrator applications
[DE84-008355] 15 p2363 N84-25177
BELL, R. O.
Experimental aspects of the study of stress generating mechanisms in silicon sheet growth
18 p2938 N84-28635
BELL, R. S.
Tensile, comprehensive and sharp properties of a 96 kg/m3 cubic meter Polyurethane foam at low temperatures
[PB84-143643] 11 p1638 N84-20710
BELL, Z. W.
User's guide to Sphere and Plate Interactive Display Routine (SPIDR)
[DE84-012855] 21 p3466 N84-31976
BELLAICHE, G.
Outline and evaluation of a spaceborne sodium heat pipe furnace with three compartments
10 p1440 N84-19407
BELLEM, R. D.
PAVE PILLAR: A maturation process for an advanced avionics architecture
[AD-P003568] 21 p3337 N84-31173
BELLER, M.
Rationale for US DOE energy storage program in hydrogen technology
[DE84-010225] 21 p3374 N84-31411
The effect of current density on anode depolarization economics
[DE84-010465] 21 p3392 N84-31524
BELLES, R. G.
Water resources data for Florida, water year 1982. Volume 1B: Northeast Florida ground water
[PB84-161876] 14 p2170 N84-24001
BELLET, J. C.
A study of the fundamental problems of combustion in the combustion chambers of turbojets using a tubular reactor 15 p2293 N84-24759
BELLMANN, D.
The neutron induced embrittlement of reactor pressure vessel steels and ferritic alloys
[AD-B080746] 15 p2295 N84-24770
BELLO, P. A.
Effect of spatial decorrelation on nulling performance of linear adaptive array
[AD-A143013] 21 p3400 N84-31570
BELLOWS, A. H.
Arc discharge convection studies: A Space Shuttle experiment 18 p2799 N84-27761
BELLOWS, R.
Development of a circulating zinc-bromine battery, phase 2
[DE84-001886] 04 p0527 N84-13463
Zinc-bromine cell design
[DE84-005532] 11 p1647 N84-20773
BELLOWS, R. J.
Microprocessor-based control system for flowing-electrolyte zinc-bromine battery systems
[DE83-012506] 03 p0369 N84-12403
BELLUM, J. C.
Theoretical studies of oxygen-iodine laser mechanisms and new laser concepts
[AD-A132374] 04 p0540 N84-13550
BELMONT, G.
Active sounder experiments on GEOS and ISEE
05 p0635 N84-14177
BELMONT, H. H.
A study of digitally controlled flight control actuation
[AD-A133274] 06 p0791 N84-15160
BELOFSKY, M. S.
On some issues concerning optimization and decision trees
[AD-A134109] 05 p0733 N84-14815
BELOKRINITSKIY, V. S.
Time-dependent spinal cord changes following nonionizing microwave irradiation
20 p3258 N84-30678
BELOTSERKOVSKIY, O. M.
Separation flow past bodies with fixed separation sites
13 p1970 N84-22784
BELOTSERKOVSKIY, S. M.
Separation flow past bodies with fixed separation sites
13 p1970 N84-22784
Mathematical modeling of transient separation flow around circular cylinder 17 p2644 N84-26916
BELOUSOV, V. Y.
Residual stresses in long double-layer cylinder under nonsteady cooling 17 p2651 N84-26953
BELOV, A. V.
Two large decreases of cosmic ray intensity in August and September, 1979 24 p3994 N84-35278
BELOV, B. T.
Rules governing the distribution of a gas jet in a liquid. Communication 2
[BLL-M-35437-(5828.4)] 08 p1154 N84-17513
BELOV, I. V.
Rules governing the distribution of a gas jet in a liquid. Communication 2
[BLL-M-35437-(5828.4)] 08 p1154 N84-17513
BELOV, V. F.
Small-angle method in study of single and multiple scattering 20 p3225 N84-30492
BELOZEROV, G. Y.
Reliability and efficiency of Kubicek rheographic method for monitoring cardiac output and stroke volume
20 p3253 N84-30644
BELOZERSKIY, G. N.
Study of superfine interactions in amorphous chromium-containing alloys by Mossbauer spectroscopy
24 p3877 N84-34565
BELROSE, F. M.
The role of simulation in high technology missile applications
[AD-A138277] 12 p1778 N84-21601
BELROSE, J. S.
Scale modelling and full scale measurement techniques with particular reference to antennas in their operational environments 03 p0364 N84-12368
BELSKY, L. E.
Development of theoretical models and analyses of the micro-physics of cloud and precipitation systems
[AD-A133557] 06 p0882 N84-15735
BELT, G. S.
Cavitation inception observations on axisymmetric headforms with turbulence stimulators
[AD-A133517] 06 p0844 N84-15506
BELT, R. A.
Programmable signal processing device
[AD-D011109] 22 p3580 N84-32673
BELT, R. F.
Manufacturing methods and technology engineering for 'Growth of large diameter Nd:YAG laser crystals'
[AD-A139902] 15 p2413 N84-25486
Preparation of mixed perovskite oxides for blue-green lasers
[AD-A142195] 19 p3111 N84-29768
BELTE, D.
Evaluation of UH-1H hover performance degradation caused by rotor icing
[AD-A141252] 18 p2793 N84-27727
BELTYON, D. N.
Thin film models of SMSI (Show Strong Metal-Support Interactions) catalysts: Pt on oxidized titanium
[AD-A140569] 17 p2767 N84-27572
BELYAEV, I. V.
A procedure for determining the tempo at which alloys solidify
[BLL-M-35642-(5828.4)] 22 p3553 N84-32497
BELYAEVA, O. V.
Gas chromatographic analysis of nitrogen
[BLL-RISLEY-TRANS-4563-(9091.9)]
22 p3545 N84-32443
BELYANCHIKOV, L. N.
The part played by the skin in the denitration of metal during vacuum arc remelting
[BLL-M-35213-(5828.4)] 01 p0041 N84-10261
BELYANKO, A. Y.
Waveguide CO2 laser with 7.5 W power rating
21 p3487 N84-32098
BELYATSKAYA, I. S.
Magnetic properties and structure of monocrystals of Fe-24 percent Cr-15 percent Co-8 percent W alloys
[BLL-M-35131-(5828.4)] 01 p0040 N84-10253
BELYAYEV, M. S.
Effect of stress concentration on fatigue resistance of heat-resistant nickel alloys 23 p3707 N84-33503
BELYEA, F. S.
Effectiveness of multi-year and advance procurement contracts
[AD-P003462] 21 p3510 N84-32239
BELYTSCHKO, T.
Efficient finite element methods for transient nonlinear analysis of shells
[AD-A136044] 09 p1333 N84-18701
BEMENT, L. J.
Field repair of AH-16 helicopter window cutting assemblies
[NASA-TM-85831] 20 p3128 N84-29864
BEMESDERFER, J.
Pulsed power bibliography. Volume 2: Annotated bibliography
[AD-A131753] 03 p0379 N84-12468
Pulsed power bibliography. Volume 1: Indices
[AD-A131752] 03 p0379 N84-12469
BEN-AMRAM, T.
Case studies of NOAA 6/TIROS N data impact on numerical weather forecasts 17 p2717 N84-27294
BEN-BASSAT, M.
Mutual adaptiveness of man and machine in information acquisition tasks
[AD-A135449] 08 p1216 N84-17932
BEN-ISRAEL, A.
Ordered incidence geometry and the geometric foundations of convexity theory
[AD-A144286] 24 p3951 N84-35015
BEN-REUVEN, M.
Fluid-dynamically coupled solid propellant combustion instability - cold flow simulation
13 p1945 N84-22644
Asymptotic condensed phase analysis of deflagrating monopropellants with subsurface exothermicity
13 p1946 N84-22656
Analysis of combustion oscillations in heterogeneous systems
[AD-A144436] 24 p3880 N84-34583
BEN-SHALOM, A.
Emission and transmission of atmospheric radiation and their influence on the performance of electro-optics systems measurement, analysis and modelling
[AD-A137359] 10 p1479 N84-19665
BEN-TAL, A.
The duality between expected utility and penalty in stochastic linear programming
[AD-A141393] 19 p3075 N84-29513
A limit theorem on characteristic functions via an extremal principle
[AD-A141390] 19 p3083 N84-29567
Ordered incidence geometry and the geometric foundations of convexity theory
[AD-A144286] 24 p3951 N84-35015
BENACCHIO, L.
The preparation of the measurements at the PDS at the Padova Observatory: Report on an experience with the development of an astronomical data base environment 18 p2843 N84-28050
BENADA, J. R.
Calibration of precise satellite altimetry for the ionosphere and wet troposphere
23 p3778 N84-33955
NASA scatterometer research data processing system: Requirements and design 23 p3781 N84-33979
BENAGE, J. F., JR.
Developing a 500-eV proton beam
[DE83-012781] 03 p0439 N84-12880
BENAZET, D.
Creep of six glues
[CETIM-1.3N.16.2] 21 p3372 N84-31398
BENCI, V.
Periodic solutions of Lagrangian systems on a compact manifold
[AD-A134557] 07 p1063 N84-16897
Normal modes of a LaGrangian system constrained in potential well
[AD-A137948] 11 p1715 N84-21187
The Dirichlet problem for harmonic maps from the disk into the Euclidean n-sphere
[AD-A139259] 14 p2213 N84-24287
Closed geodesics for the Jacobi metric and periodic solutions of prescribed energy of natural Hamiltonian systems
[AD-A141654] 19 p3086 N84-29588
Morse theory for symmetric functionals on the sphere and an application to a bifurcation problem
[AD-A141709] 19 p3087 N84-29596
BENCK, E. C.
Calculation of Legendre functions on the cut for integral order and complex degree by means of Gauss continued fractions
[AD-A139630] 17 p2758 N84-27506
BENCK, R. F.
Dynamic compaction of ceramic materials
[AD-A137257] 11 p1638 N84-20708
BENDEL, W. L.
Multi-element X-ray shields for spacecraft
[AD-A137105] 10 p1449 N84-19466
Proton-induced single event upsets in 71 Earth-satellite environments
[AD-A142435] 20 p3272 N84-30771
Length distribution of chords through a rectangular volume
[AD-A143302] 22 p3577 N84-32654
BENDER, L. U.
Evaluation of radiometric and geometric characteristics of LANDSAT-D imaging system
[E84-10050] 04 p0553 N84-13643
BENDER, L. V.
Analysis of LANDSAT-4 TM data for lithologic and image mapping purpose 20 p3209 N84-30390
BENDER, R. L.
Calculation of shuttle base heating environments and comparison with flight data 01 p0023 N84-10145

BENDER, S. C.
Operational performance of the Antares alignment system
[DE84-012659] 21 p3410 N84-31632
BENDOT, J. G.
Firebolt derivative/ramjet engine feasibility investigation (core engine program): Program summary
20 p3144 N84-29962
BENEDIC, F.
Investigation of damage and damage propagation in static and fatigue tests on carbon epoxy composites
[SNIAS-841-551-102] 21 p3358 N84-31298
BENEDICK, W. B.
Hydrogen-air detonations
[DE83-009289] 03 p0350 N84-12278
Experimental facilities to study hydrogen combustion and detonation
[DE84-006998] 20 p3149 N84-29997
BENEDICT, M.
Development of molten carbonate fuel cell technology
[DE84-004856] 15 p2364 N84-25183
BENEDIKTOV, G. L.
Thyristor converter for capacitive laser accumulators
[AD-A136051] 09 p1341 N84-18762
BENEL, D. C. R.
Human factors engineering. Part 1: Test procedures
[AD-A140343] 16 p2539 N84-26302
BENELHADJSAID, C.
Crystalline-state extrusion of low density polyethylenes
[AD-A142017] 20 p3161 N84-30075
BENENATI, R.
Fusion and high temperature electrolysis
11 p1740 N84-21350
BENENSON, G.
Detecting heavy quark jets 06 p0914 N84-15939
BENENSON, R. E.
Particle scattering studies on foreign ions in superionic conductors
[AD-A137231] 10 p1588 N84-20406
BENGT, E.
A geographic information system for forest management
[FOA-C-20531-D8] 15 p2418 N84-25516
BENHABIB, R. J.
ACOSS Fourteen (Active Control of Space Structures)
[AD-A133411] 06 p0795 N84-15181
BENIGNUS, L. L.
Neurobehavioral effects of carbon monoxide (CO) exposure in humans protocol 1
[AD-A133891] 06 p0888 N84-15774
BENIGNUS, V. A.
Neurobehavioral effects of carbon monoxide (CO) exposure in humans protocol 1
[AD-A133891] 06 p0888 N84-15774
BENILOV, A. Y.
Self-similar regimes of nonstationary turbulent convection 17 p2698 N84-27185
BENITEZ, F. G.
Some considerations on boundary integral equation method: A dynamic program for two-dimensional fracture mechanics problems
[OUEL-1468/83] 07 p1017 N84-16600
BENJAMIN, B. C.
Omnidirectional fiber optic tiltmeter
[DE84-011109] 20 p3300 N84-30959
BENJAMIN, I. A.
Overall fire safer 11 p1727 N84-21264
BENJAMIN, R. F.
Novel optical pin using microballoons
[DE83-015222] 03 p0367 N84-12391
BENJAMIN, S. G.
Some effects of surface heating and topography on the regional severe storm environment
06 p0880 N84-15723
BENJAMIN, T. M.
Microprobe analyses of rare-earth-element fractionation in meteoritic minerals
[DE83-017326] 04 p0621 N84-14097
BENNER, C. L.
Behavior of an aromatic heterocyclic polymer in salt solution
[AD-A134865] 08 p1138 N84-17401
BENNER, D. C.
Atlas of high resolution infrared spectra of carbon dioxide
[NASA-TM-85764] 10 p1576 N84-20325
BENNER, J. C.
A Q-GERT analysis of the effect of improved automatic testing on F-16 aircraft availability
[AD-A134280] 07 p0945 N84-16128
BENNER, J. P.
Materials and cells for high-efficiency solar-to-electric conversion
[DE83-011961] 12 p1843 N84-22015
Research directions and progress in SERI advanced high efficiency concepts program 19 p3046 N84-29325
BENNETT, A.
Eddy heat flux in the North Pacific
[AD-P002666] 11 p1691 N84-21031
BENNETT, B. I.
Obtaining the zero-temperature equation of state from shock data
[DE84-006696] 11 p1728 N84-21272
Equation of state for titanium dihydride
[DE84-006698] 12 p1794 N84-21698
BENNETT, C. S.
Water resources data for South Carolina, water year 1982
[PB84-162577] 14 p2170 N84-24003
BENNETT, D.
Radiometric calibration and geocoded precision processing of LANDSAT-4 MSS products
10 p1523 N84-19975
Radiometric calibration and geocoded precision processing of LANDSAT-4 Multispectral Scanner products by the Canada Centre for Remote Sensing
20 p3212 N84-30404
BENNETT, G. W.
Fourier-processed images of dynamic lung function from list-mode data
[DE83-013276] 01 p0114 N84-10741
BENNETT, H. E.
Proceedings of a Symposium on Laser Induced Damage in Optical Materials: 1981
[PB84-127869] 09 p1324 N84-18649
Laser Induced Damage in Optical Materials: 1982
[PB84-175124] 16 p2498 N84-26025
BENNETT, H. W.
Turboprop engine design concepts
[PNR-90181] 13 p1933 N84-22576
BENNETT, J.
Optical properties of metals
[AD-A134285] 07 p1075 N84-16987
BENNETT, J. C.
Hot-wire measurements of velocity and temperature fluctuations in a heated turbulent boundary layer
[AD-A135212] 08 p1158 N84-17538
The influence of large-scale motion on turbulent transport for confined coaxial jets
11 p1610 N84-20542
BENNETT, J. E.
Batch and continuous recrystallization of secondary explosives
[DE84-009735] 19 p3002 N84-29024
BENNETT, J. P.
Corrosion resistance of ceramic materials to hydrochloric acid
[PB84-131333] 10 p1469 N84-19594
Corrosion resistance of selected ceramic materials to nitric acid
[PB84-178870] 20 p3164 N84-30098
Magnesia refractories produced from chemically modified periclase grains and Mg(OH)2 slurries
[PB84-178979] 20 p3165 N84-30099
BENNETT, J. R.
A fast, programmable hardware architecture for spaceborne SAR processing 07 p0989 N84-16409
BENNETT, K. B.
Auditory induction of discrete tones in signal detection tasks
[AD-A135502] 08 p1227 N84-18019
The effect of structured contextual tones on psychophysical frequency discrimination
[AD-A135433] 09 p1363 N84-18903
Pattern-directed attention in uncertain frequency detection
[AD-A135905] 10 p1547 N84-20142
BENNETT, M. V. L.
Controls of intracellular communication mediated by gap junctions 02 p0264 N84-11738
BENNETT, R. B.
Investigation of neutral beam driven impurity flow reversal as an impurity control method in future Tokamaks
[DE84-008855] 21 p3501 N84-32191
BENNETT, R. H.
Piezometer probe technology for geotechnical investigations in coastal and deep-ocean environments
[AD-P002689] 11 p1659 N84-20824
BENNETT, W. S., II
AFTI/F-16: An integrated system approach to combat automation 06 p0773 N84-15063
BENNINGHOVEN, A.
Secondary ion emission from adsorbate layers on polycrystalline Ni 06 p0815 N84-15306
BENNION, D. N.
Battery transport data
[DE84-001640] 04 p0526 N84-13462
BENO, M. F.
Use of pulse radiolysis to measure high temperature kinetics
[DE84-011702] 21 p3361 N84-31324
BENOCCI, C.
Turbulence modeling in liquid metal free convection
06 p0842 N84-15490
BENOIT, R.
Introduction of a finite-element boundary layer model into a regional forecasting model, appendix L
18 p2885 N84-28307
BENSEMA, W. D.
Handbook for broadband isotropic antenna system. Volume 1: Operation manual
[PB84-101948] 08 p1153 N84-17510
BENSINGER, J.
Searching for limitations in capability due to high average rates 06 p0911 N84-15919
Muons and electrons in general
06 p0914 N84-15938
BENSON, B. B.
Isotope effects in the solution of gases in liquids
[DE84-014848] 23 p3715 N84-33549
BENSON, C. D.
Living and working in space. A history of Skylab
[NASA-SP-4208] 16 p2454 N84-25737
BENSON, D. A.
Energy and statistical effects in the dynamic fragmentation of metal rings
[DE84-005458] 14 p2128 N84-23760
BENSON, D. J.
The simulation of deformable mechanical systems using vector processors 17 p2675 N84-27045
BENSON, D. K.
Solid state phase change materials for thermal energy storage in passive solar heated buildings
16 p2518 N84-26163
BENSON, R. C.
Investigation of coherent anti-Stokes Raman scattering measurements in carbon ablation experiments
[AD-A130578] 01 p0036 N84-10230
BENSON, R. F.
Auroral kilometric radiation: Wave modes, harmonic and source region electron density structures
[NASA-TM-86101] 15 p2367 N84-25203
Field-aligned electron density irregularities near 500 km. Equator to polar cap topside sounder Z mode observations
[NASA-TM-86091] 18 p2879 N84-28277
BENSOUSSAN, A.
Optimal control of partially observable stochastic systems with an exponential-of-integral performance index
[MC-BW-194/83] 17 p2761 N84-27534
BENSUSSAN, P.
Experimental and theoretical studies of creep crack growth
[AD-A141193] 18 p2814 N84-27862
BENTLEY, C. R.
Investigation of antarctic crust and upper mantle using MAGSAT and other geophysical data
[E84-10055] 06 p0864 N84-15627
BENTLEY, J.
Structural characterization of dispersed metal catalysts
[DE83-017145] 03 p0354 N84-12305
Swelling behavior of a simple ferritic alloy
[DE84-003162] 07 p0976 N84-16329
BENTON, D. J.
A numerical simulation of heat transfer in evaporative cooling towers
[DE84-901142] 21 p3402 N84-31580
BENTON, E. V.
Linear energy transfer spectrum measurement experiment (P0006) 15 p2276 N84-24665
BENTSEN, J. G.
Photochemical conversion of H-2Os-3(CO)10(P-Donor) to H-2Oc-3(CO)9(P-Donor) in solution and on high surface area silica
[AD-A136991] 10 p1455 N84-19501
BENTSEN, L. D.
Thermo-mechanical and thermal behavior of high-temperature structural materials
[AD-A140520] 16 p2461 N84-25775
BENTZ, R. R.
Automatic camera tracking for remote manipulators
[DE84-011455] 21 p3407 N84-31608
BENVENUTI, P.
An atlas of UV spectra of supernovae
[ESA-SP-1046] 15 p2424 N84-25563
Ultraviolet study of the stellar population of the giant extragalactic HII region NGC 604
24 p3971 N84-35145
The 1978 - 1984 fading of the Seyfert 1 galaxy F-9
24 p3972 N84-35149
BENZ, A. O.
Decimetric gyrosynchrotron emission during a solar flare
[NASA-TM-85123] 06 p0940 N84-16107

BENZ, F. J.
Device and method for frictionally testing materials for ignitability
[NASA-CASE-MSC-20622-1] 13 p1937 N84-22596

BENZ, R. E.
Thermal design features of Rosat X-ray telescope
10 p1445 N84-19443

BENZIGER, T. M.
Method of making fine-grained triaminotrinitrobenzene
[DE84-012754] 21 p3374 N84-31413

BERADI, L.
Critical factors and operational research in tactical fighter avionic system development 06 p0773 N84-15062

BERAN, D.
Measurement of nitric oxide in the equatorial D-region and other relevant parameters
[IWF-8304] 17 p2728 N84-27365

BERANGER, G.
Stress corrosion resistance of Z 6 CN 18-9 steel: Influence of surface treatment (shot peening, polishing)
[BLL-RISLEY-TR-4777-(9091.9F)]
01 p0041 N84-10265

BERARD, M. F.
Electrical conductivities of polycrystalline and single-crystal Er2O3-stabilized hafnia
[DE83-017681] 06 p0811 N84-15279

BERAUN, R.
Thermal modeling of line focus photovoltaic systems
[DE84-013920] 22 p3618 N84-32927

BERBAUM, K. S.
Design criteria for reducing popping in area-of-interest displays: Preliminary experiments
[AD-A136769] 10 p1430 N84-19351

BERBEE, H.
Periodicity and absolute regularity
[MC-SW-97/83] 19 p3094 N84-29651

BERBENTE, C.
Supersonic flows around a circular cone with or without blowing on the surface
[AD-A143258] 22 p3532 N84-32362

BERBERICH, J. J.
The effects of dehydration on peripheral cooling
[AD-A130838] 06 p0887 N84-15767

BERCOVITCH, M.
The iSPM cosmic-ray and solar-particle investigation
09 p1262 N84-18236

BERDAHL, P.
The radiative cooling resource
16 p2513 N84-26131

BERDENIKOV, A. I.
Dependence of realizability of selective mass transfer during friction of aluminum bronzes against steel on composition of lubricating fluid 17 p2641 N84-26901
Dependence of realizability of selective mass transfer during friction of tin bronzes against steel in hydraulic system mechanisms on concentration of alloying elements 17 p2642 N84-26902

BERDNIKOV, V. I.
The controlling reactions during interaction between silicon and carbon
[BLL-M-35673-(5828.4)] 22 p3545 N84-32444

BERDYSHEV, V. V.
The functional condition of seamen under conditions of the southern maritime area 23 p3807 N84-34137

BEREGOVOY, A. G.
Beregovoy on cosmonaut training
09 p1264 N84-18251

BERENS, A. P.
Flaw detection reliability criteria. Volume 1: Methods and results
[AD-A142001] 20 p3199 N84-30320

BERENS, P. H.
Electronic spectra from molecular dynamics: A simple approach
[AD-A134325] 07 p1071 N84-16961

BERENSTEIN, C. A.
Analysis of subpixel registration accuracy
03 p0394 N84-12570

BERETTA, F.
Characterization of heavy oil sprays in isothermal and burning conditions with laser light scattering measurements in the sideward region
15 p2294 N84-24766

BEREZHIANI, V. I.
The influence of the relativistic character of the electron HF motion on the non-linear wave dynamics in plasmas
[IPPJ-676] 20 p3301 N84-30964

BEREZIN, A. B.
Stark spectroscopy of hydrogen lines in turbulent plasma. 1: Low-frequency turbulence
[DE84-004443] 11 p1737 N84-21333

BERG, L. E.
The blue-green spectrum of gaseous Pb2 wave numbers and constants of the FOu+ - XOg+ system
[USIP-84-06] 20 p3151 N84-30009

BERG, N. J.
A new multifunction acousto-optic signal processor
12 p1906 N84-22413

BERG, R. L.
Revised procedure for pavement design under seasonal frost conditions
[AD-A134480] 07 p0986 N84-16384

BERGAMINI, E. W.
An on-board control and supervision system for multiple space mission applications is considered
[INPE-2824-PRE/378] 02 p0208 N84-11354
BRESEX: On board supervision, basic architecture and preliminary aspects for payload and space shuttle interface
[NASA-CR-173673] 21 p3353 N84-31271

BERGER, D.
Absolutely unstable stimulated Brillouin scattering and 2-plasmon decay
[DE84-000823] 04 p0611 N84-14032
Renovation of the Helice
[SNIAS-832-111-109] 16 p2448 N84-25703

BERGER, D. D.
Vacuum outgassing of various materials
[DE84-001449] 04 p0495 N84-13247
Vacuum outgassing of various materials
[DE84-004812] 11 p1626 N84-20644

BERGER, H.
Application of NDE methods to green ceramics: Initial results
[DE84-006411] 14 p2130 N84-23769
Application of NDE methods to green ceramics: Initial results
[DE84-010571] 18 p2819 N84-27898

BERGER, H. U.
Technical use of solar energy. Part 1. Thin films solar cells
[BMFT-FB-T-83-298-PT-1] 15 p2362 N84-25172

BERGER, J.
High precision measurements in crustal dynamic studies
[NASA-CR-173680] 18 p2879 N84-28279
Interstellar lines in high resolution IUE spectra of run-away B type stars 24 p3973 N84-35160

BERGER, J. M.
Optical properties of amorphous silicon: Some problem areas
[DE84-701201] 24 p3964 N84-35102

BERGER, M. D.
A high-performance analog-to-digital conversion subsystem suitable for the study of evoked potentials, with design considerations for the eclipse $140 (trademark) computer
[AD-A130353] 01 p0071 N84-10461
Effects of impact acceleration on somatosensory evoked potentials
[AD-A130280] 01 p0113 N84-10734

BERGER, M. H.
Practical computation of multidimensional thermal flows in a gas centrifuge
[DE83-005697] 03 p0372 N84-12426
Perturbation solution for gas flow in a tapered rotor
[DE84-002930] 07 p1003 N84-16507

BERGER, M. J.
Adaptive mesh refinement for hyperbolic partial differential equations
[AD-A130162] 01 p0131 N84-10859
Automatic adaptive grid refinement for the Euler equations
[NASA-CR-173161] 08 p1222 N84-17977

BERGER, R.
Study of stimulated Brillouin and Raman scattering
[DE84-011260] 20 p3194 N84-30286

BERGER, R. L.
Experiments and theory on half-harmonic light and 2-plasmon decay
[DE84-008945] 20 p3193 N84-30276

BERGER, R. W.
A high speed processor for binary images
[AD-A138908] 13 p2025 N84-23125

BERGER, T.
Decentralized system theory
[DE84-013658] 23 p3820 N84-34227

BERGERON, H. P.
Controls, Displays, and Information Transfer for General Aviation IFR Operations
[NASA-CP-2279] 03 p0311 N84-12029
Analysis of general aviation single-pilot IFR incident data obtained from the NASA Aviation Safety Reporting System 03 p0312 N84-12033
General aviation single pilot IFR autopilot study
03 p0312 N84-12035
Proposed study to determine potential flight applications and human factors design guidelines of voice recognition/synthesis systems 03 p0314 N84-12047

BERGES, H. P.
Development of low noise vacuum vane pumps
[BMFT-FB-HA-84-009] 18 p2850 N84-28094

BERGGREN, K. F.
Elementary excitations and quasi-two-dimensional behaviour in a GaAs field effect transistor
[DE84-701190] 24 p3967 N84-35122

BERGGREN, M. J.
Rational function frequency extrapolation in ultrasonic tomography
[AD-A131447] 02 p0288 N84-11888
An adaptive, noise tolerant, frequency extrapolation algorithm for diffraction corrected ultrasound tomography
[AD-A136455] 09 p1375 N84-18982

BERGGREN, R.
Free-piston Stirling engine experimental program: Part 1. Baseline test summary
[DE84-003659] 07 p1012 N84-16567
Free-piston Stirling engine experimental program: Part 2. An evaluation of loss mechanisms
[DE84-003658] 09 p1325 N84-18661

BERGH, R. A.
All-fiber gyroscope with optical-Kerr-effect compensation 06 p0846 N84-15518

BERGHER, M.
New results of the ACO storage ring free electron laser
[AD-A137785] 11 p1663 N84-20848
Progress and problems in storage ring free electron lasers
[AD-A139683] 13 p1995 N84-22946

BERGHOLTER, U.
The spatial and temporal distribution of diffuse and direct solar radiation in the Federal Republic of Germany
[BMFT-FB-T-84-125] 23 p3802 N84-34110

BERGIN, M. T.
Expendable bathythermograph (XBT) measurements in the Western Alboran Sea, October 1982
[AD-A133939] 06 p0884 N84-15748

BERGLUND, L.
LINUS, a line-selective equipment for AGA thermovision
[FOA-C-30348-E4] 10 p1500 N84-19802

BERGMAN, L. A.
Fiber optic data transmission experiment (S0109)
15 p2279 N84-24688

BERGMAN, P. O.
The research of National Defence's (FOA) future policy document on space technology
[FOA-A-30034-E1] 15 p2265 N84-24602

BERGMAN, R. C.
CO2 gamma 3 fundamental band 4.5 micrometers laser potential
[AD-A142536] 20 p3148 N84-29991

BERGMANN, B.
Techniques for integrated text and image processing and communication
[BMFT-FB-T-83-104] 02 p0302 N84-11985

BERGMANN, J. W.
Comparison of combustion efficiencies for ramjet engines
[NASA-TM-77749] 23 p3694 N84-33411

BERGMARK, U.
Saab claims world's most modern engine-assembly plant 14 p2135 N84-23600
Volvo LCP: New materials, production methods
14 p2136 N84-23601
Swedish research in high-temperature ceramics, superalloys 22 p3651 N84-33142

BERGMARK, W. R.
Products of photodegradation for coumarin laser dyes
[AD-A136308] 09 p1320 N84-18624
Photodegradation of coumarin laser dyes. An unexpected singlet self-quenching mechanism
[AD-A136339] 09 p1321 N84-18628
Solvent effects on emission yield and lifetime for coumarin laser dyes. Requirements for a rotatory decay mechanism
[AD-A136358] 09 p1321 N84-18629
Photophysical and photochemical properties of coumarin laser dyes in amphiphilic media
[AD-A136361] 09 p1321 N84-18630
Electron donor-acceptor quenching and photoinduced electron transfer for coumarin dyes
[AD-A136345] 09 p1394 N84-19105

BERGONZ, F. H.
Spacecraft servicing demonstration plan
[NASA-CR-171132] 21 p3351 N84-31258

BERGQUIST, A.
Transmission line transformers; theory and design data
[FOA-C-30327-E] 08 p1152 N84-17503

BERGQUIST, P. R.
Flammability characteristics of some epoxy resins and composites
[AD-A135282] 08 p1137 N84-17394

Synthesis of monomers for the preparation of regiospecifically substituted poly(phenylacetylenes) as potential chemical detectors
[AD-A144690] 24 p3889 N84-34628
BERGSMA, J. P.
Electronic spectra from molecular dynamics: A simple approach
[AD-A134325] 07 p1071 N84-16961
BERGSTEIN, S. S.
An analysis of noise and interference in a satellite based mobile communications system
05 p0665 N84-14369
BERGSTRA, J. A.
A proof rule for restoring logic circuits
[MC-IW-227/83] 07 p1000 N84-16484
Algebraic tools for system construction
[MC-IW-234/83] 07 p1053 N84-16820
The axiomatic semantics of programs based on Hoare's logic
[MC-IW-236/83] 07 p1056 N84-16841
An abstraction mechanism for process algebra
[MC-IW-231/83] 07 p1066 N84-16916
An algebraic specification method for processes over a finite action set
[MC-IW-232/83] 07 p1066 N84-16917
The algebra of recursively defined processes and the algebra of regular processes
[MC-IW-235/83] 07 p1066 N84-16918
On specifying sets of integers
[MC-IW-237/83] 07 p1066 N84-16919
Process algebra semantics for queues
[MC-IW-241/83] 13 p2037 N84-23219
Algebra of communicating processes with abstraction
[CWI-CS-R8403] 17 p2754 N84-27485
Top-down design and the algebra of communicating processes
[CWI-CS-R8401] 17 p2756 N84-27495
BERGSTROEH, H.
On the reduction procedure for weak convergence of measures
[CTH-MATH-1983-19] 14 p2215 N84-24306
BERGSTROEM, B.
Human factors in weapon systems
[FOA-A-56006-H2] 15 p2384 N84-25297
BERGSTROM, D. F.
MIL-STD defense system software development
[AD-P003590] 21 p3341 N84-31195
BERI, A. C.
Theoretical aspects of laser-induced periodic surface structure formation
[AD-A134875] 08 p1164 N84-17581
The role of phonons in the excitation and relaxation of adspecies
[AD-A137066] 10 p1455 N84-19504
BERINGER, D. B.
The design of manually operated controls for a six-degree-of-freedom groundborne walking vehicle: Control strategies and stereotypes
[AD-P003273] 18 p2907 N84-28438
BERK, H. L.
Radial structure of curvature-driven instabilities in hot-electron plasma
[DE84-002256] 06 p0921 N84-15986
Interaction of the precessional wave with free-boundary Alfven surface waves in tandem mirrors
[DE84-012527] 20 p3307 N84-31003
BERKELIYEVA, S. C.
Effects of climate on kininogen levels in healthy human subjects 21 p3452 N84-31907
BERKER, A. N.
Phase transitions in chemisorbed systems
22 p3682 N84-33342
BERKMAN, D. K.
Oxygen/hydrogen thrusters for the space station auxiliary propulsion systems 20 p3140 N84-29934
BERKNER, K. H.
Design and fabrication of a surface conversion negative ion source and an 80 keV pre-accelerator
[DE84-006753] 13 p2045 N84-23269
BERKOFSKY, L.
The behavior of the atmosphere in the desert planetary boundary layer
[AD-A135962] 09 p1345 N84-18791
Rainfall patterns in the desert
[WCP-75] 23 p3801 N84-34099
BERKOVITS, A.
Fatigue crack propagation in Al-alloy lugs under constant amplitude and maneuver spectrum loading
[TAE-497] 06 p0857 N84-15585
BERKOVSKAYA, M. I.
Respiratory tract closing volume and structure of total lung capacity during seven-day hypokinesia in head-down position 07 p1045 N84-16778
BERKOWITZ, C.
Potential transport errors in single-layer wind fields
[DE84-003446] 11 p1675 N84-20932
BERKOWITZ, D.
A method for producing nutritionally dense freeze dried food bars
[AD-D011052] 23 p3811 N84-34166
BERKOWITZ, J. B.
Methods for estimating physicochemical properties of inorganic chemicals of environmental concern
[AD-A144154] 24 p3917 N84-34799
BERKOWITZ, S.
Interactive Signal and Pattern Analysis and Recognition Systems (ISPARS). Users' guide
[AD-A141421] 19 p3075 N84-29514
Program descriptions for Interactive Signal and Pattern Analysis and Recognition System (ISPARS)
[AD-A141575] 19 p3077 N84-29522
BERKSON, J. M.
Short term measurements of omnidirectional ambient noise in the southwest Atlantic during January 1981
[AD-A137666] 11 p1692 N84-21033
BERLEKAMP, E.
Applications of coding to spread spectrum communications 13 p1976 N84-22829
BERLIN, I. K.
The cathode material for a plasma-arc heater
[BLL-OA-TRANS-3126-(6196.3)]
08 p1232 N84-18053
BERLINER, D.
World and United States aviation and space records, as of June 1, 1983 01 p0001 N84-10009
BERLINER, Y.
Technical and economic indicators for industrial technological institutes 13 p2065 N84-23392
BERLINRUT, D. D.
Aircraft generation equipment emissions estimator (AGEEE)
[AD-A136829] 10 p1532 N84-20031
Technology transfer of the air quality assessment model
[AD-A139582] 14 p2173 N84-24018
BERMAN, A. H.
Development and fabrication of a high current, fast recovery power diode
[NASA-CR-168196] 04 p0524 N84-13443
BERMAN, B. L.
Planar channeling radiation from relativistic positrons and electrons in LiF
[DE84-002800] 07 p1081 N84-17033
Electromagnetic dissociation of radioactive heavy-ion beams
[DE84-012266] 21 p3495 N84-32146
BERMAN, D. A.
Causes and prevention of structural materials failures in naval environments
[AD-A141560] 19 p2994 N84-28972
BERMAN, L. V.
Persistant relaxation of excess charge carriers in epitaxial pure n-GaAs 18 p2824 N84-27931
BERMAN, P. R.
New results for transition probabilities in two-level systems: The large detuning regime
[AD-A131783] 03 p0433 N84-12835
Theoretical studies relating to the interaction of radiation with matter: Atomic collision processes occurring in the presence of radiation fields
[AD-A134299] 07 p1071 N84-16960
BERMAN, R. H.
Plasma dynamics 22 p3683 N84-33354
BERMAN, S. M.
Experimental studies relating environmental lighting and flicker to visual fatigue in VDT operators
[DE83-016316] 03 p0419 N84-12738
Magnetic fluorescent lamp
[DE84-014231] 22 p3590 N84-32740
BERMAN, W. J.
An operating system for future aerospace vehicle computer systems
[NASA-TM-85784] 16 p2546 N84-26340
BERMEL, P. F.
Program for mapping Antarctica
14 p2163 N84-23954
BERNARD, E. N.
Proceedings of Tsunami Symposium
[PB84-183482] 20 p3252 N84-30638
BERNARD, G.
Test rig for measuring hydraulic equipment noise
[CETIM-41-H-337] 21 p3345 N84-31224
BERNARD, J.
Text processing in the writing of contracts
[SNIAS-841-422-102] 21 p3519 N84-32297
BERNARD, J. M.
Temporal measurement of spectrally resolved output of multiline HF lasers
[AD-A137983] 12 p1819 N84-21859
BERNARD, L. C.
The 3-D MHD stability of high-beta free-boundary Tokamak plasmas with finite edge-pressure-gradient and limiter stabilization
[DE84-009188] 20 p3303 N84-30976
BERNARD, M. L.
On the propagation laws of combustion waves in solids (pyrotechnic reactions)
[BLL-TRANS-1098-(7291.7965)]
08 p1123 N84-17300
BERNARD, R.
Radar investigation of soils and sea (ERASME): C band helicopter-borne scatterometer. Application to soil moisture measurement 03 p0396 N84-12586
Evaporation from a bare soil evaluated from a soil water transfer model using remotely sensed surface soil moisture data
[CRPE-NT-125] 13 p2006 N84-23016
Calm ionospheric dynamo. Part 1: Simulations carried out in 1981
[CRPE-NT-112-PT-1] 13 p2012 N84-23055
Development of molten carbonate fuel cell technology
[DE84-004856] 15 p2364 N84-25183
BERNARDI, D.
General energy balance for battery systems
[DE84-013235] 22 p3589 N84-32731
BERNASCONI, M. C.
Study on large, ultralight long-life structures in space, phase 2C
[TM-EKR3] 08 p1120 N84-17284
BERNASEK, S. L.
Chemical poisoning in model heterogeneous reactions
[DE84-012461] 21 p3360 N84-31315
BERNAU, D.
Design of a project plan for the establishment of a lunar factory
[ILR-MITT-123] 10 p1435 N84-19379
BERNDT, C. C.
Performance of thermal barrier coatings in high heat flux environments
[NASA-TM-83663] 15 p2295 N84-24772
Failure analysis of plasma-sprayed thermal barrier coatings
[NASA-TM-83777] 21 p3365 N84-31347
BERNDTSSON, B.
An infinite L: Estimate for the delta bar equation in the ball in C sup N
[MATH-MATH-1983-29] 17 p2759 N84-27521
BERNER, K.
Ultrasonic billet testing equipment for surface defects
[BMFT-FB-T-83-192] 07 p1014 N84-16576
BERNERT, J.
Preparation of a design study for the construction of a 2 million tons/annum commercial scale hydrogenation plant
[BMFT-FB-T-83-135] 03 p0405 N84-12652
BERNETT, M. K.
Novel antistatic packaging materials
[AD-D011069] 19 p3000 N84-29012
BERNEWITZ, L.
A high-speed characterization technique for solar silicon 18 p2939 N84-28641
BERNHARD, R.
Noise path identification using face-to-face and side-by-side microphone arrangements
[NASA-CR-173708] 18 p2928 N84-28569
Measurement of the absorption coefficient using the sound-intensity technique
[NASA-CR-173848] 21 p3490 N84-32115
Study of double wall panels for use in propeller driven aircraft
[NASA-CR-173847] 21 p3490 N84-32116
Prediction of light aircraft interior sound pressure level using the room equation
[NASA-CR-173840] 21 p3490 N84-32117
The prediction of acoustical particle motion using an efficient polynomial curve fit procedure
[NASA-CR-173915] 22 p3651 N84-33145
A study of methods to predict and measure the transmission of sound through the walls of light aircraft. A survey of techniques for visualization of noise fields
[NASA-CR-173917] 22 p3652 N84-33146
BERNHARD, R. J.
Light aircraft sound transmission study
[NASA-CR-173175] 07 p1069 N84-16941
BERNHARDT, P.
Modeling of modification experiments involving neutral-gas release
[DE83-012785] 02 p0250 N84-11634
Modeling of modification experiments involving neutral gas release 05 p0640 N84-14209
Project Waterhole III 05 p0640 N84-14210
BERNHART, G.
Predicting the delamination of a multistage composite
[SNIAS-832-111-102] 16 p2461 N84-25771

BERNING, G. L. P.
Surface segration and diffusion investigations by means of AES 06 p0816 N84-15319
BERNSTEIN, A. J.
Computer networks without a shared memory AFOSR-81-0197
[AD-A135074] 08 p1215 N84-17927
BERNSTEIN, E. M.
Simultaneous electron capture and excitation in ion-atom collisions
[DE83-005799] 06 p0910 N84-15907
Correlated charge changing interactions and K X-ray emission in ion-atom collisions
[DE84-008645] 18 p2930 N84-28580
BERNSTEIN, E. R.
Molecular supersonic jet studies of Aniline solvation by helium and methane
[AD-A132879] 05 p0650 N84-14276
Molecular jet study of aniline-helium van der Waals molecules and aniline radiationless relaxation in the 1-B sub 2 excited electronic state
[AD-A132726] 05 p0744 N84-14888
Supersonic molecular jet studies of Toluene-Helium and Toluene-Methane clusters
[AD-A141379] 19 p2988 N84-28931
BERNSTEIN, H.
Temperature compensation and shunt calibration of semiconductor pressure transducers
[AD-P002686] 11 p1658 N84-20821
BERNSTEIN, I.
The evolution of spontaneous and coherent radiation in the free electron laser oscillator
[AD-A134458] 08 p1165 N84-17583
BERNSTEIN, I. B.
Wave-particle interactions on relativistic electron beams
[AD-A134270] 07 p1009 N84-16545
Power-series solutions of the gasdynamic equations for Mach reflection of a planar shock by a wedge
[AD-A135953] 09 p1315 N84-18594
BERNSTEIN, I. M.
The role of traps in the microstructural control of hydrogen embrittlement of steels
[AD-A141249] 18 p2814 N84-27863
Stress corrosion cracking of wrought and P/M high strength aluminum alloys
[AD-A144279] 24 p3884 N84-34606
BERNSTEIN, J.
Klystron voltage pulse timing experiment
[DE84-011753] 20 p3177 N84-30176
BERNSTEIN, P. A.
Distributed database control and allocation. Volume 1: Frameworks for understanding concurrency control and recovery algorithms
[AD-A138891] 14 p2203 N84-24223
Distributed database control and allocation. Volume 2: Performance analysis of concurrency control algorithms
[AD-A138892] 14 p2203 N84-24224
Distributed database control and allocation. Volume 3: Distributed database system designer's handbook
[AD-A138893] 14 p2203 N84-24225
BERNSTEIN, R.
LANDSAT-4 radiometric and geometric correction and image enhancement results 20 p3206 N84-30370
BERNSTEIN, R. L.
Comparison of satellite and in situ data 12 p1835 N84-21961
BERNSTEIN, W.
Fast magnetospheric echoes of energetic electron beams 05 p0636 N84-14187
Optical measurements of a large-scale laboratory Beam Plasma Discharge (BPD) 05 p0638 N84-14196
Initial experimental results from a laboratory size beam plasma discharge device 05 p0638 N84-14198
BERNSTROEM, B.
Measurement of small amounts of xenon-133 in air: Report on a series of measures and tests in Stockholm and in Ljungbyhed
[FOA-C-20515-A1] 15 p2366 N84-25197
BERNT, H.
Investigation of silicon materials for solar cells. Part 1: Segregation and gettering properties of certain contaminations. Part 2: Measurement of electrical parameters
[BMFT-FB-T-83-204] 10 p1531 N84-20026
Investigations to improve the stability of thermal oxides on polycrystalline and single crystalline silicon
[BMFT-FB-T-84-052] 19 p3113 N84-29780
BERRI, D. A.
Geological and geothermal investigation of the lower Wind River valley southwestern Washington Cascade Range
[DE84-012545] 21 p3431 N84-31771
BERRIER, B. L.
Investigation of installation effects on twin-engine convergent-divergent nozzles
[NASA-TP-2205] 04 p0479 N84-13152
BERRIMAN, G.
Visible and infrared studies of atacisymic variable stars 05 p0762 N84-14997
BERRY, D. A.
Turbine engine exhaust hydrocarbon analysis, tasks 1 and 2
[AD-A131522] 01 p0012 N84-10074
BERRY, D. T.
Flying qualities criteria for superaugmented aircraft 11 p1615 N84-20569
BERRY, H. G.
The 100% alignment of hydrogen excited states in beam-foil spectroscopy
[DE83-017963] 03 p0436 N84-12859
Fast ion atomic spectroscopy
[DE84-006720] 15 p2404 N84-25432
BERRY, L. A.
Air-to-ground HF (High Frequency) propagation prediction model for fast multicircuit computation
[PB84-145961] 12 p1810 N84-21802
Effect of bandwidth and interference rejection on the spectrum efficiency of land mobile radio systems
[PB84-158369] 17 p2654 N84-26978
BERRY, M. W.
Orthogonal schemes for structural optimization
[AD-P002954] 14 p2199 N84-24194
BERRY, R.
Executive summary, aerothermal modeling program, phase 1
[NASA-CR-174602] 03 p0348 N84-12263
Aerothermal modeling program, phase 1
[NASA-CR-168243-VOL-1] 03 p0348 N84-12264
Aerothermal modeling program, phase 1
[NASA-CR-168243-VOL-2] 03 p0348 N84-12265
BERRY, R. A.
Method of operator splitting or fractional steps and its applications to fluid-dynamic modelling
[DE84-000800] 04 p0534 N84-13511
BERRY, R. F., JR.
Ultrasonic angle beam standard reflector
[NASA-CASE-LAR-13153-1] 11 p1728 N84-21274
BERRY, T. P.
Cockpit data management requirements (current technology aircraft)
[AD-A140643] 17 p2607 N84-26699
Cockpit data management requirements (current technology aircraft)
[FAA-PM-83-25] 19 p2961 N84-28766
BERRYMAN, J. G.
Theory of pulse propagation in fluid saturated porous layers
[DE84-002714] 07 p1003 N84-16503
BERS, A.
Relativistic electromagnetic instabilities near electron cyclotron frequency and harmonics
[DE84-009672] 19 p3107 N84-29745
Plasma dynamics 22 p3683 N84-33354
BERS, L.
Nonlinear partial differential equations and related problems of pade approximations
[AD-A135110] 08 p1218 N84-17948
BERSET, J. M.
Thin metal film and multilayers experiment (A0138-3) 15 p2278 N84-24680
BERSHADER, D.
Photodiagnostics of turbulent flows using laser-induced fluorescence
[NASA-CR-166546] 08 p1155 N84-17519
BERSSENBRUGGE, A. D.
The influence of sleep state on ventilatory control in humans 17 p2746 N84-27435
BERSTAD, A.
The effect of physical stress on gastric secretion and pancreatic polypeptide levels in man 10 p1546 N84-20138
BERT, C. W.
Transverse shear effects in bimodular composite laminates
[AD-A130261] 01 p0031 N84-10195
Forced vibration of Timoshenko beams of multimodular materials
[AD-A130372] 01 p0095 N84-10617
A critical evaluation of new plate theories applied to laminated composites
[AD-A137789] 11 p1688 N84-20883
New theory for thick, composite-material rings
[AD-A138538] 13 p2001 N84-22961
Nonlinear analysis of laminated, bimodular composite material structures
[AD-A139942] 15 p2285 N84-24714
Dynamic instability of suddenly heated, thick, composite shells 15 p2309 N84-24853
Transverse shear effects in bimodular composite laminates 15 p2309 N84-24854
BERTANI, R. T.
Microfacies, depositional models and diagenesis of Lagoa Feia Formation (lower cretaceous), Campos Basin, offshore Brazil 21 p3440 N84-31827
BERTAZZOLI, R.
Purification of metals by zone melting. An optimization 15 p2307 N84-24839
BERTEL, E.
Electron emission and ion desorption spectroscopy of clean and oxidized Ti(0001)
[AD-A141319] 18 p2930 N84-28579
BERTERO, V. V.
Transducer for measuring the internal forces in the columns of a frame-wall reinforced concrete structure
[PB84-119494] 09 p1319 N84-18617
Effects of bond deterioration on hysteretic behavior of reinforced concrete joints
[PB84-192020] 20 p3203 N84-30343
Local bond stress-slip relationships of deformed bars under generalized excitations: Experimental results and analytical model
[PB84-192848] 20 p3204 N84-30355
BERTHEL, R. O.
Snow characterization instruments
[AD-A131984] 03 p0411 N84-12687
SNOW-ONE-A and B characterization measurements and data analysis
[AD-A141245] 18 p2890 N84-28345
BERTHELIER, J. J.
The experiment Phenomena Induced by Charged Particle Beams (PICPAB) on board Spacelab 1 05 p0641 N84-14220
BERTHELOT, Y. H.
Experimental apparatus for studying moving thermoacoustic sources
[AD-A134517] 07 p1010 N84-16549
BERTHIER, P.
Prediction of critical speeds, unbalance and nonsynchronous forced response of rotors 10 p1515 N84-19918
BERTIN, G.
Plasma dynamics 22 p3683 N84-33354
BERTIN, J. J.
Shuttle orbiter boundary layer transition at flight and wind tunnel conditions 01 p0023 N84-10149
BERTING, F. M.
Fundamentals of computer security
[DE84-011476] 21 p3469 N84-31989
BERTINOTTI, F.
Compatibilizing effect of a diblock copolymer of isotactic polystyrene and isotactic polypropylene in blends of the corresponding homopolymers
[AD-A143959] 23 p3724 N84-33601
BERTINOV, A. I.
Form coefficient for the field of a superconducting synchronous machine
[AD-A134751] 08 p1226 N84-18010
Unipolar electric machines with liquid-metal current pickup
[AD-A139778] 16 p2484 N84-25932
BERTOLI, J. L. R.
Preliminary chemical analysis of rain water in Cubatao: Ambient effects
[INPE-2857-PRE/396] 23 p3792 N84-34053
BERTOLINA, E.
Flight parameters recording for safety monitoring and investigations 06 p0775 N84-15083
Flight test techniques used for proof of structural integrity of Tornado when carrying external stores 24 p3849 N84-34413
BERTOLONE, G.
Design of a wind tunnel afterbody model for the development of a transonic combat aircraft 14 p2098 N84-23591
BERTOLOTTI, M.
Bistability in optical waveguides 14 p2239 N84-24436
BERTONI, E. A.
Wind-speed extremes in the Northern Hemisphere, 30 through 60 km
[AD-A132019] 03 p0410 N84-12682
Handbook of geophysics and space environments. Chapter 16: Water vapor, precipitation, clouds and fog, revised
[AD-A144176] 24 p3934 N84-34901
BERTONI, H. L.
Propagation loss in electrostatically variable SAW delay lines
[AD-A142433] 20 p3178 N84-30183
BERTOTTI, B.
Radio scintillations at large elongation angles: Contributions of waves versus discontinuities
[IFSI-82-4] 03 p0362 N84-12358

Correlation between two spacecraft in the Doppler detection of a gravitational background radiation
[IFSI-83-7] 03 p0363 N84-12362
The search for gravitational waves with ISPM
09 p1263 N84-18241
Future of laser interfometry in space
24 p3906 N84-34737

BERTRAM, A.
Development of procedures for component mode synthesis
[DFVLR-IB-232-82-C-09] 12 p1782 N84-21626

BERTRAND, P. A.
Fast optical position-sensitive detector for McPherson ESCA-36
[AD-A132606] 05 p0685 N84-14501
Chemical deposition of SiO2 on InP
[AD-A138355] 12 p1914 N84-22472

BERTRAND, R. M.
Guide to graphics at ANL, revised
[DE84-013189] 20 p3274 N84-30786

BERTSCHINGER, E. W.
Nonlinear growth of perturbations in an Einstein-De Sitter cosmology 17 p2776 N84-27624

BERTSEKAS, D. P.
Dynamic control of session input rates in communication networks
[AD-A133572] 06 p0825 N84-15379
Convergence theories of distributed iterative process: A survey
[AD-A135875] 09 p1382 N84-19027
A model for asynchronous distributed computation
[AD-P002879] 13 p1978 N84-22840
Implementation of an optimal multicommodity network flow algorithm based on gradient projection and a path flow formulation
[AD-A138935] 13 p2029 N84-23154

BESSE, A. L.
Dual maxwellian space plasma modeling by the logarithmic method
[AD-A137131] 10 p1585 N84-20387
Shuttle Orbiter charging in polar Earth orbit
[AD-P002116] 16 p2524 N84-26202
Potential barriers and multiple roots in spacecraft charging
[AD-P002117] 16 p2524 N84-26203

BESSEL, W. G.
The Z-pinch program at Imperial College
10 p1583 N84-20372

BESSELING, J. F.
The principle of virtual work and a principle of virtual heat as a basis for nonlinear finite element analysis
[WTHD-157] 07 p1005 N84-16522

BESSIS, D.
Family of almost periodic Schroedinger operators
[DE83-017308] 11 p1717 N84-21199

BESSON, J.
A sample performance of the grille spectrometer aboard Spacelab
[AERONOMICA-ACTA-A-281-1984]
16 p2494 N84-26003
Trace constituants measurements deduced from spectrometric observations onboard Spacelab
[AERONOMICA-ACTA-A-286-1984]
20 p3239 N84-30565

BEST, D. L.
Air Weather Service model output statistics systems
[AD-A139129] 14 p2179 N84-24053

BEST, F. R.
Design and operation of a light-scattering device for sizing and velocimetry of large droplets
[DE83-902641] 03 p0377 N84-12456

BEST, J. T.
Explanation of the hypersonic longitudinal stability problem: Lessons learned 01 p0021 N84-10130

BEST, M. R.
Two-dimensional flight-path reconstruction by means of spline approximation
[NLR-TR-82075-U] 12 p1769 N84-21541
Cryptography in a communication system
[NLR-MP-82051-U] 12 p1808 N84-21787

BEST, P.
Evaluation results for the interactive video competency recognition system
[AD-A133052] 06 p0892 N84-15796

BEST, R.
Accurate thermal control of enclosures of optical payloads 10 p1447 N84-19457

BESTE, D.
RF systems in space. Volume 2: Space-based radar analyses
[AD-A133735] 05 p0668 N84-14394

BESUNER, P. M.
Recommendations for future research on fracture mechanics life technology
[NASA-CR-170904] 08 p1169 N84-17615
A review of fracture mechanics life technology
[NASA-CR-170903] 08 p1170 N84-17622
Cost/risk analysis for disk retirement, volume 1
[AD-A141978] 20 p3131 N84-29881

BETANCOURT, O.
Magnetohydrodynamic equilibrium and stability of stellarators
[DE84-010731] 20 p3305 N84-30994

BETHMANN, R.
Feasibility study of a low cost Energy Performance Management System (EPMS)
[BMFT-FB-W-84-015] 21 p3328 N84-31116

BETTANDORFF, J. M.
Water resources data, Kentucky water year 1982
[PB84-162320] 14 p2171 N84-24004

BETTENCOURT, J. S.
Utilization of digital LANDSAT imagery for the study of granitoid bodies in Rondonia: Case example of the Pedra Branca massif
[E84-10120] 14 p2167 N84-23979

BETTIN, P. J.
The role of relevant experience and intellectual ability in determining the performance of military leaders: A contingency model explanation
[AD-P003303] 18 p2909 N84-28448

BETTINI, R. G.
Optimization of thermal systems with sensitive optics, electronics, and structures
[NASA-CR-3745] 13 p1939 N84-22608

BETTNER, J. L.
Experimental verification of an endwall boundary layer prediction method 07 p0958 N84-16211

BETTS, T. K.
Automated storage and retrieval systems--a consolidation of guidance for project management and implementation
[AD-A135571] 09 p1404 N84-19175

BETZ, F. E.
Deep reconditioning testing for near Earth orbits
23 p3738 N84-33689

BETZ, H.
Fabrication of structures on semiconductors by X-rays: Comparison and optimization of mask technologies
[BMFT-FB-T-83-071] 02 p0300 N84-11968

BETZINA, M. D.
Rotor/body aerodynamic interactions
[NASA-TM-85844] 02 p0174 N84-11143

BETZOLD, R. W.
Multiple input - multiple output flight control design with highly uncertain parameters; application to the C-135 aircraft
[AD-A138011] 12 p1772 N84-21554

BEUERMANN, K.
Preliminary results of coordinated optical UV and X-ray observations of magnetic white dwarfs in binaries
24 p3980 N84-35216

BEUTER, K. J.
Feasibility study on a new type of personal noise protection
[BMFT-FB-HA-84-017] 18 p2915 N84-28489

BEVENSEE, R. M.
Maximum entropy methods in electromagnetic/geophysical/ultrasonic imaging
[DE84-002793] 07 p0994 N84-16445
Maximum entropy reconstruction of a volume anomaly from pulse scatter data
[DE84-002463] 08 p1237 N84-18084

BEVER, G. A.
An automated stall-speed warning system
[NASA-TM-84917] 11 p1607 N84-20520
The development of an airborne instrumentation computer system for flight test
[NASA-TM-86036] 11 p1607 N84-20521
The development of an airborne instrumentation computer system for flight test 24 p3851 N84-34421

BEVER, R. S.
Forecasting of high voltage insulation performance: Testing of recommended potting materials and of capacitors
[NASA-TM-85536] 22 p3581 N84-32681

BEVERLY, J. G.
The make or buy decision--its nature and impact
[AD-P002779] 13 p2054 N84-23326
Increasing the Contractor/Subcontractor/Vendor bidding lists
[AD-P002836] 13 p2063 N84-23381
Evaluating the availability, role, and performance of subcontractors in the aerospace industry
[AD-A141408] 19 p3114 N84-29788

BEVERT, A.
The ONERA Aeronautics Research Establishment in Cannes (France)
[ONERA-P-1983-2] 16 p2565 N84-26455

BEVINGTON, J. E.
A maximum-likelihood approach to image segmentation by texture
[AD-A142323] 19 p3090 N84-29619

BEWICK, A.
Electrochemically Modulated Infrared Spectroscopy (EMIRS). Experimental details
[AD-A137040] 10 p1455 N84-19503
Electrochemistry at the molecular level
[AD-A140070] 15 p2287 N84-24723

BEWLEY, T.
Fiscal and monetary policy in a general equilibrium model
[AD-A138502] 12 p1920 N84-22510

BEWTRA, M.
Heat Capacity Mapping Radiometer (HCMR) data processing algorithm, calibration, and flight performance evaluation
[E84-10153] 17 p2709 N84-27248

BEY, K. S.
Analytical prediction of aerothermal environment in a wing-elevon cove
[NASA-TM-85711] 03 p0370 N84-12412

BEYER, A.
A method for the optimization of the geometry and the magnetization of magnetized bodies that are assumed for the solution of the inverse magnetic field problem
23 p3776 N84-33942

BEYER, E. P.
An overview of the Thematic Mapper geometric correction system 20 p3206 N84-30367

BEYER, J. B.
Wideband monolithic microwave amplifier study
[AD-A136424] 09 p1318 N84-18608

BEYER, R.
Meteorological measurements in the Northern German coastal area for wind energy prospection
[BMFT-FB-T-84-017] 16 p2529 N84-26241
The project Cockpit Instruments and Human Engineering as part of a joint research program on aircraft guidance and control at the Technical University of Brunswick
[ESA-TT-783] 16 p2539 N84-26300

BEYER, R. A.
Laser spectroscopy of propellant-like flames
[AD-A132042] 03 p0349 N84-12267
Intracavity laser excitation of NCO fluorescence in an atmospheric pressure flame
[AD-A134740] 08 p1164 N84-17579
Convective heating of energetic materials
13 p1949 N84-22672

BEYER, W. A.
Solution of simultaneous polynomial equations by elimination in MACSYMA
[DE84-013891] 23 p3818 N84-34211

BEYERS, M. E.
Recent developments and future directions in dynamic stability research at NAE, Ottawa
14 p2097 N84-23582

BEZBORODOV, A. A.
Fractionation of chemical elements at ocean-atmosphere interface 17 p2698 N84-27189

BEZDEK, J. C.
Fuzzy algorithms for pattern recognition
[AD-P003119] 16 p2533 N84-26260

BEZIAC, G.
Applications of composite materials in helicopter construction
[AD-A136678] 10 p1427 N84-19336

BEZLER, P.
The development of methods to predict both the dynamic and the pseudo-static response of secondary structures subjected to seismic excitations
[DE84-010284] 22 p3612 N84-32884

BEZRUCHENKO, V. I.
Frequency conversion in photomultiplier during interaction of photoelectron beam and electric field in heterodyne 22 p3568 N84-32599

BEZUIDENHOUT, F.
Surface segration and diffusion investigations by means of AES 06 p0816 N84-15319

BHAGAT, P. K.
Development of limb volume measuring system
[NASA-CR-171789] 16 p2495 N84-26008

BHAKTA, S. D.
Battery transport data
[DE84-001640] 04 p0526 N84-13462

BHAMBRI, A.
Organizational structures, processes, and problems: A literature review and taxonomy
[AD-A140979] 18 p2943 N84-28665

BHANDARI, D. R.
Thermal network correction by simplex optimization
10 p1442 N84-19422

BHANDARKAR, M. D.
Metallurgical characterization of the fracture of several high strength aluminum alloys
[NASA-TP-1086] 02 p0189 N84-11230
BHANGU, J. K.
Emissions variability and traversing on production RB211 engines
[PNR-90176] 13 p1933 N84-22573
The design and development of a low emissions Transply combustor for the civil Spey engine
[PNR-90198] 13 p1934 N84-22582
The design and development of a low emissions transply combustor for the civil Spey engine
15 p2292 N84-24755
BHANJI, A. M.
High power K sub a -band transmitter for planetary radar and spacecraft uplink 22 p3572 N84-32625
BHARTIA, P.
Computer graphics techniques for aircraft EMC analysis and design 06 p0771 N84-15055
BHARUCHA-REID, A. T.
Computational solution of random equations
[AD-A136418] 09 p1375 N84-18978
BHASIN, K. B.
Monolithic microwave integrated circuits: Interconnections and packaging considerations
[NASA-TM-83774] 21 p3382 N84-31461
BHASKAR, S. K.
Simulation of large networks of processors by smaller ones
[AD-A143529] 22 p3643 N84-33098
BHAT, R. B.
Computer aided synthesis of a satellite antenna structure with probabilistic constraints 10 p1512 N84-19899
Dynamic behaviour of a satellite antenna structure in random vibration environment 10 p1512 N84-19900
Unbalance response of a single mass rotor mounted on dissimilar hydrodynamic bearings
10 p1515 N84-19919
An implementation of the programming structural synthesis system (PROSSS)
[NASA-TM-83180] 18 p2920 N84-28517
BHATE, S. K.
Split-Stirling-cycle displacer linear-electric drive
06 p0820 N84-15343
BHATELEY, I. C.
Development of V/STOL methodology based on a higher order panel method
[NASA-CR-166491] 01 p0004 N84-10024
BHATT, S. N.
A framework for solving VLSI (Very Large Scale Integration) graph layout problems
[AD-A136143] 09 p1378 N84-19003
How to assemble tree machines
[AD-A139963] 15 p2330 N84-24988
BHATTACHARJEE, A.
Variational method for the three-dimensional inverse-equilibrium problem in toroids: Part 2
[DE83-012925] 01 p0149 N84-10981
BHATTACHARJEE, T.
Microwave and quantum magnetics
22 p3683 N84-33348
BHATTACHARYYA, G. K.
On the asymptotics of maximum likelihood and related estimators based on type 2 censored data
[AD-A137958] 12 p1896 N84-22348
BHATTACHARYYA, P.
On the Fatou set of monic polynomials
04 p0575 N84-13788
BHATTACHARYYA, S.
Creep-rupture behavior of candidate Stirling engine iron supperalloys in high-pressure hydrogen. Volume 2: Hydrogen creep-rupture behavior
[NASA-CR-174705] 19 p2992 N84-28961
BHAVNANI, K. H.
Sheath ionization model of beam emissions from large spacecrafts
[AD-A137181] 10 p1448 N84-19463
Analysis of spacecraft charging, particle beams and geophysical data bases
[AD-A138632] 13 p1940 N84-22616
BHUSHAN, B.
Friction and morphology of magnetic tapes in sliding contact with nickel-zinc ferrite
[NASA-TP-2267] 07 p0977 N84-16334
BIAGI, L. A.
Design and fabrication of a surface conversion negative ion source and an 80 keV pre-accelerator
[DE84-006753] 13 p2045 N84-23269
BIAGIONI, R. N.
Polarization effects in the luminescence of cadmium selenide electrodes
[AD-A133951] 05 p0647 N84-14253
Zinc selenide photoelectrodes. Efficient radiative recombination in a stable photoelectrochemical cell
[AD-A141869] 19 p3051 N84-29360
BIAGLOW, J. A.
Preliminary investigation of a two-zone swirl flow combustor
[NASA-TM-83637] 13 p1932 N84-22565
Experimental investigation of the low NO/sub x vortex airblast annular combustor
[NASA-TM-83615] 13 p1932 N84-22567
BIAMONTI, G.
AMIX: An automated system for handling error notification data 05 p0722 N84-14734
BIANCANIELLO, F. S.
Precipitation in rapidly solidified Al-Mn alloys
[AD-A136128] 09 p1284 N84-18385
BIANCHI, L.
Optical and ultraviolet observations of FK Comae stars 24 p3978 N84-35198
BIANCHI, M.
Stress corrosion resistance of structural steels in high chloride environments
[EUR-7435] 17 p2622 N84-26781
BIANCHINI, G. M.
Vapor spill pipe monitor
[DE84-011103] 20 p3190 N84-30267
BIBL, K.
Ionospheric research using digital ionosondes
[AD-A140012] 15 p2368 N84-25210
BIBLER, N. E.
Characterization of borosilicate glass containing Savannah River Plant radioactive waste. 2: Microstructure and durability
[DE83-011246] 02 p0292 N84-11916
BICANIC, N.
Identification of strain-softening properties and computational predictions of localized fracture
[AD-A141866] 19 p3036 N84-29258
BICE, W. S., JR.
Kerma factors for use in 37-group neutron spectrum calculations
[AD-A139033] 13 p2041 N84-23240
BICHUYA, A. L.
Influence of nitrogen-hydrogen-containing media on heat resistance properties of nickel-based alloys
24 p3877 N84-34570
BICKEBOLLER, M.
Soliton bag: Dynamics and the quark plasma
[DE84-001103] 05 p0745 N84-14895
BICKEL, M. D.
Cohesion in the US military
[AD-A140828] 17 p2747 N84-27439
BICKEL, W. S.
Information content and sensitivity of matrix elements to structural changes in complex scattering system
[AD-A136600] 09 p1388 N84-19068
BICKERS, B. H.
An improved method for the prediction of centrifugal compressor rotational-tone noise
[DE84-013345] 22 p3605 N84-32842
BICKES, R. W., JR.
Effect of thermal aging on the output of a pyrotechnic actuator
[DE84-012903] 22 p3562 N84-32558
BICKLER, D. B.
Electrodes for solid state devices
[NASA-CASE-NPO-15161-1] 07 p0996 N84-16456
Increased voltage photovoltaic cell
[NASA-CASE-NPO-16155-1] 11 p1673 N84-20917
BICKLER, T. C.
Synthetic aperture radar target simulator
[NASA-CASE-NPO-15024-1] 18 p2827 N84-27951
BICKMORE, T. W.
On some issues concerning optimization and decision trees
[AD-A134109] 05 p0733 N84-14815
BICKNELL, T. J.
Real-time synthetic aperture radar image formation utilizing an electrooptic spatial light modulator
07 p0989 N84-16411
BICKWELL, T. J.
Real-time digital processing of SAR data
07 p0989 N84-16408
BIDASARIA, H. B.
Neon transport in selected organic composites
[NASA-TM-85693] 08 p1231 N84-18044
An abrasion-ablation model description of galactic heavy-ion fragmentation
[NASA-TP-2305] 12 p1903 N84-22396
BIDDLE, A. P.
The Marshall Space Flight Center Low-Energy Ion Facility: A preliminary report
[NASA-TM-82559] 04 p0596 N84-13933
BIDDLE, J. R.
Review of solar fuel-producing quantum conversion processes
[NASA-CR-173904] 22 p3617 N84-32916
Solar photochemical process engineering for production of fuels and chemicals
[NASA-CR-173910] 22 p3617 N84-32917
BIEBESHEIMER, V. A.
Multiple scattering effects in EXAFS (Extended X-ray Absorption Fine Structure): Comparison between theory and experiment for Pt metal
[AD-A142199] 19 p2989 N84-28941
BIEDENHARN, L. C.
Special functions and group theory in theoretical physics
[DE83-015642] 02 p0301 N84-11975
Spinorial relativistic rotator: The transformation from quasi-Newtonian to Minokowski coordinates
[DE84-009091] 20 p3262 N84-30839
BIEFELD, B. M.
Correlation of electrical conductivity and thermal decomposition of phenolic materials
[DE83-009186] 01 p0074 N84-10487
BIEFELD, R. M.
Ion-implanted strained-layer superlattice device
[DE84-000101] 05 p0754 N84-14949
Ion channeling analysis of GaAs/sub x/P/sub 1-x/GaP strained-layer superlattices
[DE84-002536] 05 p0755 N84-14952
Resonance between channeled particle wavelengths and periodicity of strained-layer superlattices
[DE84-002173] 07 p1081 N84-17032
Preparation of device quality strained-layer superlattices
[DE84-009488] 19 p3112 N84-29778
BIEG, K. W.
Analysis of mechanisms for anode plasma formation in ion diodes
[DE83-017793] 04 p0608 N84-14010
BIEGEN, R. J.
Study of effects of fuel properties in turbine-powered business aircraft
[NASA-CR-174627] 16 p2473 N84-25854
BIEGER, G. R.
Understanding picture-text instructions
[AD-A139746] 15 p2382 N84-25267
BIEGLER, L. T.
Solution of dynamic optimization problems by successive quadratic programming and orthogonal collocation
[AD-A137338] 10 p1563 N84-20238
BIEHL, F. A.
Passive solar design procedures for Naval installations
[AD-A136329] 09 p1341 N84-18760
Reentry analysis
[DE84-012640] 21 p3498 N84-32167
BIELAK, M.
Insitu measurement of burning rate
13 p1944 N84-22639
BIELAWA, R. L.
Aeroelastic analysis for propellers - mathematical formulations and program user's manual
[NASA-CR-3729] 03 p0388 N84-12530
BIELIK, M.
Preliminary investigations of 360 kJ plasma focus device, part 2 10 p1581 N84-20359
BIELINSKI, J. W.
Lead salt diode lasers and development of tunable solid state lasers for remote sensing
[NASA-CR-173783] 19 p3029 N84-29207
BIEMOND, J.
An iterative method for restoring noisy blurred images
[AD-A142201] 19 p3016 N84-29122
BIEN, F.
LWIR signature from EXCEDE SPECTRAL
[AD-A144169] 24 p3860 N84-34483
BIENENSTOCK, A.
Structural studies of amorphous Mo-Ge alloys through the semiconductor-metal transition
[DE83-016525] 02 p0299 N84-11964
BIENIEK, M. P.
Theory of viscoplastic shells for dynamic response
[AD-A131272] 01 p0096 N84-10624
Yield surface for bars including warping restraint
[AD-A131393] 03 p0388 N84-12533
BIENKOWSKI, G. K.
Investigation of the external flow analysis for density measurements at high altitude
[NASA-CR-173881] 22 p3530 N84-32352
BIENVENU, G.
New principle of array processing in underwater passive listening 09 p1401 N84-19152
BIENVENUU, Y.
The effect of recycling on cast structures and the internal character of IN100 alloy: A laboratory study
23 p3705 N84-33485
BIER, R.
The 60-GHz gyrotron development program
[DE83-012922] 02 p0214 N84-11402

Analysis of the output mode from 60 GHz, 200 kW pulsed and CW gyrotrons
[DE84-004586] 10 p1497 N84-19785
First 200 kW CW operation of a GHz gyrotron
[DE84-004573] 10 p1498 N84-19794
The 100 GHz, 1 MW, CW gyrotron study program
[DE84-005751] 12 p1813 N84-21819
60 GHz gyrotron development program
[DE84-006606] 13 p1987 N84-22899

BIERMANN, L.
Search for exotic molecules in bright comets
24 p3981 N84-35222

BIERMANS, M.
A study for developing an ultrasonic Doppler flowmeter
[BMFT-FB-T-84-135] 23 p3752 N84-33788

BIESER, F.
Control and operation cost optimization of the HISS cryogenic system
[DE83-017741] 04 p0515 N84-13384

BIESIADNY, T. J.
Response of a small-turboshaft-engine compression system to inlet temperature distortion
[NASA-TM-83765] 23 p3684 N84-33414

BIETERMAN, M.
An adaptive method of lines with error control for parabolic equations of the reaction-diffusion type
[AD-A142253] 19 p3090 N84-29616

BIEZEL, F. M. E.
Process for isotope separation
[DE84-001983] 06 p0844 N84-15507

BIGELOW, A. R.
Study of a tunable CO2/N2O medium pressure waveguide laser
[AD-A138076] 12 p1820 N84-21863

BIGELOW, T. S.
The EBT-S 28-GHz, 200-kW, CW, mixed-mode, quasi-optical plasma heating system
[DE84-014415] 23 p3829 N84-34287

BIGGERS, J. V.
Targeted basic studies of ferroelectric and ferroelastic materials for piezoelectric transducer applications
[AD-A132136] 04 p0526 N84-13461
Targeted basic studies of ferroelectric and ferroelastic materials for piezoelectric transducer applications
[AD-A132262] 04 p0612 N84-14043
Tape casting of Honeywell PZT type 3 powder
[AD-A144215] 24 p3888 N84-34623

BIGGERS, S. B.
POSTOP: Postbuckled open-stiffener optimum panels-theory and capability
[NASA-CR-172259] 09 p1329 N84-18679
Skin-stiffener interface stresses in composite stiffened panels
[NASA-CR-172261] 09 p1330 N84-18681
POSTOP: Postbuckled open-stiffener optimum panels, user's manual
[NASA-CR-172260] 09 p1330 N84-18682

BIGGS, A. W.
Radar and infrared remote sensing of terrain, water resources, arctic sea ice, and agriculture
06 p0868 N84-15651
Characteristics of the Lower Atmosphere Influencing Radio Wave Propagation
[AGARD-CP-346] 15 p2322 N84-24943

BIGGS, F.
Analysis of a time-of-flight neutron spectrometer
[DE84-006504] 11 p1661 N84-20636

BIGOT, J. Y.
Optical bistability in CuCl 14 p2241 N84-24456

BIKKENINA, S. K.
Seismic model of Earth's crust in southern Sea of Okhotsk region and some results of its geological inerpretation 17 p2701 N84-27207

BIKLE, D. D.
Bone loss in tail-suspended rats in restricted to the unweighted limbs 09 p1353 N84-18843

BIKSON, T. K.
Interactive information environments: A plan for enabling interdisciplinary research
[RAND/N-2115] 22 p3673 N84-33284
Scientific and technical information transfer: Issues and options
[RAND/N-2131-NSF] 22 p3673 N84-33286

BIL, C.
SKETCH: A computer program for plotting a transport airplane configuration in conceptual design
[VTH-LR-368] 10 p1429 N84-19348

BILALOV, S. B.
A study of Beta-hydroxyamines and Beta-hydroxysulphides as corrosion inhibitors for metals
[BLL-T6313/BG/WH773/84] 22 p3552 N84-32487

BILANIN, A. J.
Numerical studies of the deposition of material released from fixed and rotary wing aircraft
11 p1602 N84-20491

BILANOW, S.
LANDSAT-4 horizon scanner performance evaluation
[E84-10079] 07 p1022 N84-16626
LANDSAT-4 horizon scanner full orbit data averages
[E84-10080] 07 p1022 N84-16627

BILARDI, G.
A minimum area VLSI (Very Large Scale Integrated) architecture for O(logn) time sorting
[AD-A142414] 20 p3266 N84-30723

BILDERBACK, D. H.
Design of doubly focusing, tunable (5 - 30 keV), wide-bandpass optics made from layered synthetic microstructures
[DE83-015492] 03 p0441 N84-12897

BILELLO, J. C.
Background research in support of the new grant proposal: Research consortium for X-ray topography on line X-19 at NSLS
[DE84-004212] 10 p1589 N84-20414

BILELLO, M. A.
Synoptic meteorology during the SNOW-ONE-A field experiment
[AD-A134888] 08 p1191 N84-17762

BILHARZ, O. W.
Low frequency ac waveform generator
[DE84-014310] 23 p3743 N84-33726

BILL, R. C.
Some inelastic effects of thermal cycling on yttria-stabilized zirconia
[NASA-TM-83488] 07 p1001 N84-16492
Preliminary study of thermomechanical fatigue of polycrystalline MAR-M 200
[NASA-TP-2280] 08 p1130 N84-17350
Method of fabricating an abradable gas path seal
[NASA-CASE-LEW-13269-2] 13 p1997 N84-22957
Low cycle fatigue behavior of conventionally cast MAR-M 200 AT 1000 deg C
[NASA-TM-83769] 23 p3717 N84-33564

BILLARD, J. M.
Evaluation of nickel-hydrogen battery for space application
[NASA-TM-77355] 10 p1528 N84-20012

BILLARDON, M.
New results of the ACO storage ring free electron laser
[AD-A137785] 11 p1663 N84-20848
Progress and problems in storage ring free electron lasers
[AD-A138683] 13 p1995 N84-22946
UV and VUV degradation of very high reflectivity mirrors for use in a storage ring free electron laser
[AD-A138740] 13 p2043 N84-23255

BILLET, M. I.
An investigation of cavity cycling for ventilated and natural cavities
[AD-A130641] 01 p0078 N84-10511

BILLET, M. L.
A study of pump cavitation damage
[NASA-CR-170992] 11 p1652 N84-20783

BILLETS, S. A.
Piecewise simulaton proton test of gallium arsenide and thin silicon solar cells 19 p3045 N84-29317

BILLINGS, D. S.
Differentiated ratings of perceived exertion and selected physiological responses during prolonged upper and lower body exercise
[AD-A134086] 06 p0887 N84-15769
Physiological responses to prolonged upper body exercise
[AD-A134811] 08 p1200 N84-17826

BILLINGS, S. A.
Identification of nonlinear systems
[RR-232] 05 p0739 N84-14850
Least squares parameter estimation algorithms for nonlinear systems
[RR-225] 18 p2923 N84-28536
Identification of a nonlinear difference equation model of an industrial diesel generator
[RR-246] 18 p2926 N84-28559
Input-output parametric models for nonlinear systems. Part 1: Deterministic nonlinear systems
[RR-251-PT-1] 20 p3283 N84-30844
Input-output parametric models for nonlinear systems. Part 2: Stochastic nonlinear systems
[RR-252-PT-2] 20 p3283 N84-30845

BILODEAU, C.
VHF and UHF propagation in the Canadian high Arctic
15 p2326 N84-24969

BILPUCH, E. G.
System for producing high-resolution polarized and unpolarized beams with a tandem accelerator
[DE84-004054] 09 p1388 N84-19063

BILSON, E.
Studies related to the deep Earth gas
[PB83-244004] 02 p0251 N84-11644

BILTOFT, C.
A vertical wind angle standard deviation calculation method for the unstable surface boundary layer
[AD-A132362] 04 p0567 N84-13739

BIMONTE, R.
Sterile devices: A GMP (Good Manufacturing Practices) workshop manual
[PB83-226563] 01 p0061 N84-10400

BINDER, B.
The new calibration tank for engine simulators at DFVLR Goettingen 14 p2099 N84-23593

BINDER, J.
Microelectronic bending and pressure sensors
[BMFT-FB-T-83-100] 02 p0225 N84-11476

BINDER, J. C.
Electromagnetic design of a remote manipulator arm for space applications 09 p1295 N84-18462

BINDER, M.
Failure of vincristine induce twinning
09 p1358 N84-18872

BINDER, M. J.
Research planning task group study-thermal destruction
[PB84-145119] 12 p1804 N84-21764

BINDER, U.
The characteristics of the cylindrical drift chambers of the detector CELLO: Investigation with muons from high altitude cosmic rays
[MPI-PAE/EXP.E1.125] 19 p3028 N84-29205

BINDSCHADLER, D. L.
Structure of the Saint Francois Mountains and surrounding lead belt, south east Missouri: Inferences from thermal IR and other data sets
[E84-10027] 01 p0099 N84-10645

BINFORD, T. O.
Center of excellence in aerospace manufacturing automation
[AD-A136477] 09 p1249 N84-18155
Stereo reconstruction study
[AD-A138208] 12 p1836 N84-21970
Preliminary DSRS design
[AD-A138890] 14 p2169 N84-23995
End-point control of flexible robots
[AD-A144428] 24 p3910 N84-34766

BING, F.
Comments on Bing's paper On a Posteriori Probability, and reply to Professor L. Lorenz
[CSIR-TRANS-1658] 01 p0128 N84-10838

BINGHAM, C. R.
Sensitive collinear laser spectroscopy on fast atom and ion beams
[DE84-003403] 10 p1456 N84-19512

BINGHAM, G. J.
Two-dimensional aerodynamic characteristics of an airfoil designed for two
[NASA-TP-1965] 18 p2788 N84-27694
Shapes for rotating airfoils
[NASA-CASE-LAR-12396-1] 19 p2956 N84-28732
Two-dimensional aerodynamic characteristics of three rotorcraft airfoils at Mach numbers from 0.35 to 0.90
[NASA-TP-2000] 19 p2957 N84-28743

BINION, T. W., JR.
A review and an update of the FDP Specialists Meeting (London) on Wall Interference in Wind Tunnels
14 p2095 N84-23570

BIONDI, M. A.
OI 630.0 nm optical measurements of neutral winds, temperatures and airglow enhancements during the BIME program
[AD-A131695] 03 p0408 N84-12671
Laboratory studies of atomic collision processes
[AD-A137992] 12 p1901 N84-22382
Atomic collisions and plasma physics
[AD-A141320] 18 p2880 N84-28286
Ground-based observations of equatorial thermosphere dynamics with a Fabry-Perot interferometer
[NASA-CR-174005] 24 p3933 N84-34897

BIRCH, S. F.
Multi-length scale turbulence models
[AD-A140527] 16 p2493 N84-25997

BIRCHFIELD, B.
Product definition data interface
12 p1891 N84-22314

BIRCHMEIER, J. R.
Detection of electromagnetic radiation leakage through small structural openings
[AD-A137407] 10 p1479 N84-19667

BIRD, A. A.
A determination of the constants for a second-order closure turbulence model from geophysical data
[AD-A134826] 08 p1195 N84-17795

BIRD, C. R.
VUV instrument calibrations for laser-plasma studies
[DE84-010507] 20 p3303 N84-30974

BIRD, G. R.
New materials for organic photovoltaic cells
[DE83-016845] 03 p0404 N84-12645
BIRD, J. W.
Cabling and connectors technology working group report IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A137330] 10 p1504 N84-19828
BIRD, K. J.
Oil and gas resources of the North Slope, Alaska
14 p2164 N84-23960
BIRD, M. K.
The IPSM coronal-sounding experiment
09 p1262 N84-18240
BIRD, R. A.
Water resources data for Florida, water year 1982. Volume 1A: Northeast Florida surface water
[PB84-162338] 14 p2170 N84-24002
BIRDSEY, R. A.
The forest resources of Puerto Rico, Forest Service resource bulletin
[PB83-249995] 04 p0556 N84-13665
BIRDSEYE, E. H.
Lessons learned--advanced attack helicopter
[AD-A135521] 08 p1104 N84-17177
Multiple launch rocket system: A case study of manpower, personnel and training requirements determination
[AD-A137644] 11 p1620 N84-20606
BIREMBAUT, Y.
Signal analysis and data processing system (acoustic and vibratory)
[CETIM-11-H-50-9] 21 p3467 N84-31981
BIRGENEAU, R. J.
Structure and phase transitions in bromine and potassium-mercury intercalated graphite
[AD-A133863] 05 p0645 N84-14244
Spin correlations near the ferromagnetic to spin glass crossover
[DE84-007385] 15 p2299 N84-24799
RLE Progress Report no. 126
[RLE-PR-126] 22 p3681 N84-33336
X-ray diffuse scattering 22 p3682 N84-33341
BIRINGEN, S.
Transition to turbulence in plane channel flow
[NASA-CR-173149] 07 p1000 N84-16486
Transition to turbulence in plane channel flows
[NASA-CR-172298] 09 p1313 N84-18577
BIRKHOFF, G.
Numerical fluid dynamics
[AD-A135900] 09 p1315 N84-18593
BIRKS, A. R.
A study of satellite radar altimeter operation over ice-covered surfaces
[ESA-CR(P)-1810] 08 p1179 N84-17683
BIRKS, N.
Investigation into the role of sodium chloride deposited on oxide and metal substrates in the initiation of hot corrosion
[NASA-CR-173377] 11 p1633 N84-20676
Interactions between erosion and corrosion of metals and alloys at elevated temperatures
[AD-A141410] 19 p2993 N84-28968
BIRKY, M.
Smoke inhalation injury 04 p0511 N84-13350
Study of biological samples obtained from victims of MGM Grand Hotel fire 04 p0514 N84-13374
BIRMAN, B.
Penn State Get Away Special
18 p2799 N84-27759
BIRN, J.
Computer simulation of reconnection in planetary magnetospheres
[DE84-001389] 11 p1758 N84-21479
Three-dimensional computer modeling of dynamic reconnection in the magnetotail
[DE84-007480] 14 p2176 N84-24037
BIRNBAUM, H. K.
X-ray topographic measurements of strain fields
[AD-A136310] 09 p1394 N84-19103
Topographic EXAFS
[AD-A137116] 12 p1915 N84-22475
Mechanical properties of metal hydrides
[AD-A141496] 19 p2994 N84-28970
BIRNBAUM, M.
Laser chemical etching of vias in GaAs
[AD-A131288] 02 p0226 N84-11479
BIRNIE, R. W.
Investigation of forestry resources and other remote sensing data. 1: LANDSAT. 2: Remote sensing of volcanic emissions
[E84-10092] 10 p1522 N84-19963
BIRO, B. L.
Local climatological investigation of wind fields in the lower Monongahela Valley of Allegheny County, Pennsylvania 23 p3799 N84-34088
BIRON, D. G.
Coherent laser radar remote sensing
[AD-A139448] 14 p2151 N84-23885
BIRON, W. J.
Cabin safety subject index
[AD-A140409] 16 p2445 N84-25683
BIRTHCER, R. C.
Irradiation effects on the mechanical properties of composite organic insulators
[DE83-014703] 01 p0032 N84-10202
BIRX, D. L.
Magnetic switching
[DE83-012952] 03 p0433 N84-12841
Beam dynamics in the Advanced Test Accelerator (ATA)
[DE84-001421] 04 p0598 N84-13947
Pulsed power for racetrack induction accelerators
[AD-A143289] 22 p3653 N84-33157
BIRYUKOV, A. S.
Cutoff for solar cosmic rays in Earth's magnetosphere in magnetically quiet periods 19 p2973 N84-28849
BIS, R. F.
Testing of candidate batteries for global positioning system 23 p3736 N84-33677
High rate discharge studies of Li/SO2 batteries
23 p3737 N84-33680
BISAGNI, J. J.
Observations of sea surface conditions during WEAP (Weapons Environmental Acoustics Program) experiment, May 1982: An example of real-time monitoring of the upper ocean environment
[AD-A140021] 15 p2374 N84-25241
BISBEY, R., II
Graphics language, version 2.2
[AD-A142438] 20 p3272 N84-30772
BISCHOFF, D. E.
Development of lateral-directional equivalent system models for selected U.S. Navy tactical aircraft
[AD-A141672] 19 p2968 N84-28810
BISCHOFF, J. L.
Panel 1B: Assessment and scientific understanding of hard mineral resources in the EEZ
18 p2866 N84-28195
BISHOP, A. R.
Solutions in synthetic and biological polymers
[DE84-007505] 15 p2302 N84-24817
BISHOP, B.
Programmatic comments 02 p0263 N84-11732
BISHOP, D. E.
Overground Excess Sound Attenuation (ESA). Volume 2: Analysis of data for flat grassy terrain conditions
[AD-A142420] 20 p3291 N84-30892
BISHOP, D. G.
A comparative study of the fatty acid composition of prochloron lipids 10 p1544 N84-20115
BISHOP, E. C.
Rationale for a Threshold Limit Value (TLV)R for JP-4/Jet B wide cut aviation turbine fuel
[AD-A134814] 08 p1201 N84-17827
BISHOP, G. M.
Computer programs for helicopter data display and conceptual design
[AD-A139096] 14 p2205 N84-24231
BISHOP, H. E.
The locus of environmental crack growth in bonded aluminium alloy joints
[AERE-R-11069] 18 p2816 N84-27880
Crystalline effects in Auger electron spectroscopy
[AERE-R-11051] 18 p2942 N84-28658
BISHOP, J. R.
Wave force investigations at the second Christchurch Bay Tower
[NMI-R177] 20 p3250 N84-30626
BISHOP, S. G.
Studies of hydrogenated amorphous silicon
[DE84-011888] 21 p3505 N84-32211
BISHOP, S. M.
The effect of damage on the tensile and compressive performance of carbon fibre laminates
01 p0034 N84-10213
BISHOP, V. S.
The role of neural reflexes in control of the cardiovascular system during stress
[AD-A140938] 18 p2899 N84-28393
BISHOP, W. S.
Deactivation of thionyl chloride cells
[AD-D011113] 22 p3615 N84-32908
BISNOVATYI-KOGAN, G. S.
The stability of elliptical stellar disks. Balanced disks
[PR-826] 09 p1385 N84-19043
Coordinated X-ray and ultraviolet observations of RU Lupi 24 p3978 N84-35199
Coordinated X-ray, ultraviolet, optical, and infrared observations of the transient source A0535+26
24 p3981 N84-35219
BISSINGER, H. D.
Development of a multidetector deflection measurement system
[DE84-009703] 18 p2847 N84-28078
Development of a multidetector deflection measurement system
[DE84-013580] 21 p3410 N84-31631
BITRAN, G. R.
Worst case performance of some heuristics for lot size problems
[INPE-3134-PRE/525] 23 p3817 N84-34205
BITTENCOURT, G.
Analytical solution of 1st and 2nd ordinary differential equations using the REDUCE 2 algebra manipulation program
[NASA-TM-77446] 16 p2548 N84-26351
A proposal for the extension of the LISP language
[INPE-3056-PRE/476] 17 p2752 N84-27483
Analytical soluation for computing first and second order ordinary differential equations using a method of series development
[INPE-2980-PRE/442] 22 p3645 N84-33110
BITTENCOURT, J. A.
Low latitude F-region studies using the OI6300 angstrom and 7744 angstrom nightglow measurements at Cachoeira Paulista, Brazil
[INPE-3025-PRE/463] 12 p1847 N84-22040
Nighttime enhancements in the TEC and magnetic storm response of the tropical F-region over Brazil
[INPE-3038-PRE/469] 21 p3442 N84-31839
BITTKER, D. A.
Research on aviation fuel instability
14 p2108 N84-23642
Research on aviation fuel instability
15 p2289 N84-24734
GCKP84-general chemical kinetics code for gas-phase flow and batch processes including heat transfer effects
[NASA-TP-2320] 22 p3548 N84-32446
BITTNER, A. C., JR.
Effects of head impact acceleration on human performance: Overview and preliminary battery identification
[AD-A130286] 01 p0116 N84-10754
Current research at the U.S. Naval Biodynamics Laboratory on human whole-body motion and vibration
[AD-A138367] 12 p1865 N84-22155
BITTNER, H.
Study report on a modular photovoltaic power supply system for space application
[BMFT-FB-W-84-010] 19 p2983 N84-28904
BITTON, D.
Experiment in benchmarking database systems
[DE84-003840] 11 p1750 N84-21423
BIVENS, C. C.
Fixed-base simulator investigation of Display/SCAS requirements for army helicopter low-speed tasks
[AD-A134123] 05 p0630 N84-14140
BIWER, R. L.
Charge characteristics of Ni/Fe traction cells
[DE83-014205] 03 p0367 N84-12389
Effects of standtime on the available capacity of lead-acid and nickel/iron electric vehicle batteries
[DE84-013452] 22 p3587 N84-32721
BIWER, T. L.
Comparative response of lead-acid and nickel-iron batteries to pulsed and constant-current loads
[DE83-017939] 03 p0368 N84-12395
BIXBY, R. E.
Hidden and embedded structure in linear programs
[AD-A137773] 11 p1707 N84-21125
BIXLER, J.
Search for emission lines in the gaseous halo of edge-on galaxies
[NASA-CR-173968] 23 p3838 N84-34349
BIZAIS, I.
Fourier-processed images of dynamic lung function from list-mode data
[DE83-013276] 01 p0114 N84-10741
BIZZELL, R. M.
Preliminary evaluation of Thematic Mapper image data quality 20 p3214 N84-30415
Thematic Mapper data quality and performance assessment in renewable resources/agriculture remote sensing 20 p3215 N84-30422
BJARKE, G. O.
New-generation low-power radiation survey instruments
[DE84-001716] 05 p0685 N84-14506
BJORKEN, J. D.
A thousand TeV in the center of mass: Introduction to high-energy storage rings
[DE83-015649] 03 p0435 N84-12855

BJORKLUND, R. A.
Very low thrust gaseous oxygen-hydrogen rocket engine ignition technology 13 p1952 N84-22682
Very low thrust and low chamber pressure GO2/GH2 thruster technology 20 p3136 N84-29910
Stress-corrosion crack-growth study of titanium alloy Ti-6Al-4V exposed to Freon PCA and nitrogen tetroxide MON-1 20 p3138 N84-29923
BJORKMAN, W. S.
Flight test results of the strapdown ring laser gyro tetrad inertial navigation system
[NASA-TM-84358] 02 p0176 N84-11157
BJORKSTAM, J. L.
Borophosphate vitreous electrolytes: The relationship between local order, thermal stability and ion transport 11 p1743 N84-21372
Nuclear magnetic resonance studies of ion motion in solid electrolytes
[DE84-013846] 22 p3665 N84-33238
BJURQVIST, C.
Parachuting in night conditions
[FOA-C-59010-H1] 18 p2790 N84-27708
Parachute descent from altitude 5000 to 7000 meters
[FOA-C-59008-H1] 19 p2959 N84-28756
BLAAUW, G. J.
Time to Line Crossing (TLC): A new method to describe driving performance
[IZF-1983-10] 12 p1867 N84-22165
Optimal control model applications and field measurements with respect to car driving
[IZF-1983-18] 12 p1892 N84-22324
BLAAUWENDRAAD, J.
Heron, volume 28, no. 1, 1983. Dynamic elasto-plastic model for reinforced concrete members
[PB84-109057] 06 p1172 N84-17635
BLACHERE, G.
Estimated analysis of the aeroelastic behavior of tail rotors 02 p0172 N84-11129
BLACK, G.
Blade loss transient dynamics analysis with flexible bladed disk
[NASA-CR-168176] 04 p0486 N84-13193
BLACK, H. D.
A new technique for monitoring the water vapor in the atmosphere 17 p2716 N84-27293
BLACK, J.
Software psychology: The need for an interdisciplinary program
[PB84-176718] 17 p2755 N84-27486
BLACK, J. D.
Optical gas temperature measurement in gas turbines
[PNR-90174] 13 p1933 N84-22572
An analytical method to predict efficiency of aircraft gearboxes
[NASA-TM-83716] 16 p2433 N84-25606
BLACK, J. T., JR.
Tape joint design guidelines
[DE84-002052] 05 p0688 N84-14522
BLACK, P. G.
Ocean temperature changes induced by tropical cyclones 06 p0879 N84-15722
Microwave remote sensing of ocean surface wind speed and rain rates over tropical storms 17 p2716 N84-27288
BLACK, S. A.
Seawater hydraulics: Development and evaluation of an experimental diver tool system
[AD-A142032] 19 p3032 N84-29231
BLACK, S. D.
Twinning of amphibian embryos by centrifugation 09 p1358 N84-16873
BLACK, W. M.
Study of gain, bandwidth, and tunability of a millimeter-wave free-electron laser operating in the collective regime
[AD-A139285] 14 p2151 N84-23884
BLACKBURN, A. P.
Slick and quick data entry for AFOS Era Verification (AEV) programs
[PB84-138726] 10 p1542 N84-20103
BLACKBURN, J. C.
A high performance fiber optic telemetry link for use in a space radiation simulator
[AD-A132738] 05 p0643 N84-14232
BLACKBURN, J. F.
Proceedings of the 9th World Computer Congress. IFIP (International Federation of Information Processing)
[AD-A136317] 09 p1365 N84-18911
The 6th International Conference on Computing Methods in Applied Sciences and Engineering
[AD-A139824] 15 p2317 N84-24906
BLACKBURN, J. P.
Robot manipulator control
[AD-A129365] 06 p0893 N84-15800
BLACKBURN, L. B.
Tensile testing apparatus
[NASA-CASE-LAR-13243-1] 11 p1656 N84-20804
BLACKBURN, M. R.
Biomagnetism: Possible new predictor of personnel performance
[AD-A142451] 20 p3262 N84-30697
BLACKETT, R.
Water geochemistry of hydrothermal systems, Wood River District, Idaho
[DE84-012190] 21 p3431 N84-31769
BLACKEY, F. E.
Water resources data for New Hampshire and Vermont, Water Year 1982
[PB84-161868] 14 p2170 N84-24000
BLACKLER, M. J.
Buckling of stiffened cylindrical bins under wind loading
[PB84-137926] 10 p1518 N84-19941
BLACKMAN, J. A.
Theoretical study of neutron scattering cross sections in semiconductors
[DE84-007540] 15 p2415 N84-25498
Band structure effects in the electronic properties of solids assessible in neutron scattering studies
[DE84-006557] 18 p2941 N84-28654
BLACKMON, J. B.
Development of a consensus standard for determining thermal performance of high-concentration-ratio solar collectors
[DE83-005129] 06 p0872 N84-15676
BLACKSTOCK, D.
The 11th International Congress on Acoustics
[AD-A134345] 07 p1070 N84-16951
BLACKWELDER, R. F.
Eddy detection within turbulent shear flows 06 p0837 N84-15453
The bursting phenomenon in bounded shear flows 06 p0837 N84-15454
Large scale motion in turbulent boundary layers 06 p0837 N84-15455
BLACKWELL, R.
Manufacturing cost analysis for photovoltaic concentrator tracking structures
[DE84-006318] 13 p2009 N84-23032
BLACKWELL, R. H.
Aeroelastic considerations in the design of high speed rotors 02 p0171 N84-11128
BLADES, A. C.
Cohesion in the US military
[AD-A140828] 17 p2747 N84-27439
BLADES, J. C.
Ultraviolet studies of the interstellar medium 24 p3970 N84-35137
BLADON, G. M.
Yearbook of the Bureau of Mineral Resources, Geology and Geophysics, Canberra, 1 July 1982 - 30 June 1983
[BMR-83] 19 p3037 N84-29266
BLAEDEL, K. L.
Automated helium gas metering system
[DE84-015083] 23 p3751 N84-33779
Flow metering valve
[DE84-014249] 23 p3757 N84-33815
BLAES, B. R.
Product assurance technology for procuring reliable, custom LSI/VLSI electronics
[NASA-CR-173405] 12 p1812 N84-21810
BLAGOV, V. C.
Deputy flight director Blagov on 211-day flight of Berezovoy and Lebedev 19 p2971 N84-28834
BLAHA, G.
First- and second-phase gravity field solutions based on satellite altimetry
[AD-A142256] 19 p3054 N84-29381
Analysis linking the tensor structure to the least-squares method
[AD-A142159] 19 p3089 N84-29611
BLAHA, M.
Atomic structure in strongly coupled neon plasmas
[AD-A137341] 10 p1576 N84-20327
Research in dense plasma atomic physics
[AD-A141538] 19 p3107 N84-29740
BLAIR, G. R.
A study of the mechanics of radiation damage in fiber optical waveguides
[AD-A139590] 14 p2225 N84-24352
BLAIR, J. W.
Study of outgassing and decomposition of Space Shuttle heat protection tiles, fillers and adhesive
[NASA-CR-173974] 24 p3860 N84-34465
BLAIR, M.
Digital multishaker modal testing
[NASA-CR-170951] 06 p0847 N84-15522
BLAIR, M. F.
Hot-wire measurements of velocity and temperature fluctuations in a heated turbulent boundary layer
[AD-A135212] 08 p1158 N84-17538
BLAIR, W.
Re-design and fabrication of titanium multi-wall Thermal Protection System (TPS) test panels
[NASA-CR-172247] 12 p1780 N84-21610
BLAIR, W. P.
Combined ultraviolet studies of astronomical sources
[NASA-CR-175234] 08 p1242 N84-18121
BLAISDELL, G. L.
Driving traction on ice with all-season and mud-and-snow radial tires
[AD-A136115] 09 p1325 N84-18658
A multivariable regression algorithm
[AD-A136630] 09 p1382 N84-19026
BLAISDELL, L.
RF design and performance of a multibeam, multiband antenna
[AD-P003512] 21 p3385 N84-31480
BLAK, E.
Application of maximum likelihood and Monte Carlo methods to local studies of stellar velocity fields 09 p1409 N84-19211
BLAKE, B.
The ISPM energetic panel particle composition experiment 09 p1261 N84-18233
BLAKE, B. B.
A study of the aerodynamic interactions of the tail rotor and fin
[AD-A130757] 01 p0005 N84-10030
Investigation of operational and design factors resulting from main rotor and tail rotor interactions
[AD-A137710] 11 p1603 N84-20497
Research opportunities for rotorcraft 11 p1619 N84-20596
BLAKE, C. L.
US energy: Aviation perspective
[AD-A137766] 18 p2821 N84-27910
BLAKE, J. B.
A determination of the charge state of energetic magnetospheric ions by the observation of drift echoes
[AD-A143181] 22 p3623 N84-32954
BLAKE, P. L.
Hypsometric studies of Mars. 13 p2089 N84-23530
BLAKE, R. D.
Ceramic-glass-metal seal by microwave heating
[DE84-011283] 20 p3196 N84-30295
BLAKESLEE, R. J.
Maxwell currents beneath thunderstorms 24 p3926 N84-34852
BLAKLEY, B.
High speed low-cost ways to get messages from a sender to a receiver when some channels linking them become inoperative
[AD-A142831] 21 p3386 N84-31488
BLAMBERT, M.
On a fundamental inequality and the singularities of an analytic function defined by the LC-Dirichletian element 13 p2032 N84-23177
BLAMONT, J. E.
Spaceborne lasers in atmospheric research 24 p3904 N84-34721
BLANC, J. P. C.
The relaxation time of two queueing systems in series
[MC-BW-192/83] 17 p2761 N84-27537
Asymptotic analysis of a queueing system with a two-dimensional state space
[CWI-OS-R8402] 19 p3092 N84-29637
BLANC, T. V.
Computer-model results for the beach-escarpment-induced distortion of onshore wind flow at the northwest point of San Nicolas Island, California
[AD-A135952] 09 p1349 N84-18815
BLANCH, H. W.
Nutritional and environmental factors in ethanol fermentation by Saccharomyces cerevisiae
[DE84-009693] 20 p3167 N84-30110
BLANCHARD, A. J.
Development of land based radar polarimeter processor system
[NASA-CR-173636] 17 p2652 N84-26960
Development and characterization analysis of a radar polarimeter
[NASA-CR-175259] 22 p3598 N84-32785
Utilization of active microwave roughness measurements to improve passive microwave soil moisture estimates over bare soils 23 p3770 N84-33898
An active remote sensing system to map location of underwater oil seeps 23 p3781 N84-33974
BLANCHARD, B. J.
Effects of vegetation canopy on the radar backscattering coefficient
[NASA-TM-85070] 02 p0208 N84-11359

The effects of vegetation and soil hydraulic properties on passive microwave sensing of soil moisture: Data report for the 1982 fiels experiments
[NASA-TM-85106] 07 p1023 N84-16633
Radar response from vegetation with nodal structure
[E84-10085] 10 p1520 N84-19956
Utilization of active microwave roughness measurements to improve passive microwave soil moisture estimates over bare soils 23 p3770 N84-33898

BLANCHARD, D. O.
Variability of the convection field pattern in South Florida and its relationship to the synoptic flow
[PB84-177393] 20 p3249 N84-30623

BLANCHARD, J. L., II
A comparison of 2 acoustic parabolic transmission loss models for compatibility with the wavenumber technique in the determination of source depth
[AD-A143079] 21 p3492 N84-32128

BLANCHARD, L. O.
Soldering method for cable connectors
[AD-D011103] 22 p3587 N84-32718

BLANCHARD, R. E.
Guide to the development of a human factors engineering data retrieval system
[AD-A136918] 10 p1554 N84-20187

BLANCHARD, W. H.
The evolution of Air Force Space Mission Command, control and communications
[AD-P002149] 14 p2137 N84-23814

BLANCO, C.
Emission lines in the UV spectrum of alpha Tau 24 p3974 N84-35168
Rotational modulation of spots and plages on RSCVn stars 24 p3978 N84-35196

BLANCO, F. G.
PULSAR: A balloon-borne experiment to detect variable low energy gamma-ray
[INPE-2950-PRE/433] 07 p1093 N84-17108

BLANCO, L. A.
Application of the liquid column chromatography to the study of lubricating oils and esters separation 18 p2817 N84-27889
The low temperature behavior of lubricant greases 18 p2819 N84-27902
Application of liquid column chromotography to the study of lubricant oils and ester separation 18 p2819 N84-27903

BLAND, M. K.
Direct biological effects of increased atmospheric carbon dioxide levels
[PB83-224360] 01 p0115 N84-10749

BLAND, S. R.
Calculation of unsteady aerodynamics for four AGARD standard aeroelastic configurations
[NASA-TM-85817] 19 p2958 N84-28747
Experience with transonic unsteady aerodynamic calculations
[NASA-TM-86278] 22 p3530 N84-32353

BLAND, T. L.
Noise levels and data analyses for small prop-driven aircraft
[AD-A134598] 07 p0952 N84-16175
Noise measurement flight test: Data/Analyses Bell 222 twin jet helicopter
[AD-A139906] 15 p2404 N84-25430

BLANDA, M. T.
Macrocycles containing tin. Synthesis and structure of 1,10-Diphenyl-1,10-Distannabicycle (8.8.8)Hexacosane
[AD-A142703] 20 p3145 N84-29966

BLANDER, M.
Predictions of entropies of molecules and liquids
[DE84-010504] 21 p3507 N84-32216

BLANEY, J. I.
Geokinetic effects on motion sensitive instrumentation, systems and facilities
[AD-A142682] 20 p3241 N84-30575

BLANFORD, M. L.
User's guide to Sandia TEX
[DE83-016763] 04 p0582 N84-13840

BLANKE, H. D.
High power bogie for 350 km/h. Design and definition
[MBB-UD-376-OE] 05 p0687 N84-14518

BLANKEN, C. L.
A simulation investigation of the effects of engine-and thrust-response characteristics on helicopter handling qualities
[NASA-TM-85849] 01 p0005 N84-10034
Fixed-base simulator investigation of Display/SCAS requirements for army helicopter low-speed tasks
[AD-A134123] 05 p0630 N84-14140

BLANKENAGEL
Planning and implementation of automated cutting in the precision engineering industry
[MBB-UA-772-83-O] 14 p2135 N84-23794

BLANKENSHIP, G. L.
Study of noise-certification standards for aircraft engines. Volume 3: Selection and evaluation of engine-noise-certification concept
[AD-A137805] 11 p1614 N84-20563

BLANKENSHIP, P. E.
Restructurable VLSI program
[AD-A131248] 01 p0072 N84-10472
Wideband integrated Voice/Data technology
[AD-A132284] 04 p0521 N84-13421
Restructurable VLSI program
[AD-A139959] 15 p2329 N84-24987

BLANKS, H. S.
Equivalence techniques for vibration testing 10 p1506 N84-19850

BLANKSCHTEIN, D.
Phase transitions in chemisorbed systems 22 p3682 N84-33342

BLASEWITZ, R. M.
Ada (trademark) as a program design language: Have the major issues been addressed and answered?
[AD-P003430] 20 p3271 N84-30762
Ada (Trademark) as a program design language. A rational approach to transitioning industry to the world of Ada through a program design language criteria
[AD-P003556] 21 p3335 N84-31160

BLASHFIELD, J. F.
Aerospace bibliography, seventh edition
[NASA-TM-85438] 09 p1399 N84-19136

BLASI, J. A.
Effects of water on the cathode passivation by lithium dithionite in the Li/SO2 battery
[DE84-003103] 07 p0998 N84-16473

BLASS, W. E.
The 12 micron band of ethane: A spectral catalog from 765 cm(-1) to 900 cm(-1)
[NASA-TM-85108] 10 p1454 N84-19493

BLASZYK, J.
Telecommunications (selected articles)
[AD-A131872] 03 p0361 N84-12346

BLATTNER, J. L.
Water resources data for Colorado, water year 1982. Volume 2: Colorado River Basin above Dolores River
[PB84-120138] 10 p1527 N84-20004

BLATTNER, M.
Environment for scientific laboratories
[DE83-013848] 12 p1919 N84-22504

BLAU, F. P.
Advanced ICRF launchers for heating and current drive in large Tokamaks
[DE84-009092] 19 p3108 N84-29750
High power neutral beam heating on Doublet 3
[DE84-012471] 21 p3501 N84-32186

BLAUGHER, R. D.
Thin film technology of high-critical-temperature superconducting electronics
[AD-A136722] 10 p1589 N84-20411

BLAZEK, R. J.
Development of nondestructive full-test requirements for gold wires on multilayer thick-film hybrid microcircuits
[DE83-014368] 01 p0093 N84-10602

BLEA, J.
Matrix approach to testing mirrors, part 2
[DE83-011996] 04 p0558 N84-13676

BLECH, R. A.
A real-time, portable, microcomputer-based jet engine simulator
[NASA-TM-83550] 07 p1052 N84-16812

BLECHINGER, F.
Simulation of the reaction of optical systems in the manufacturing process
[BMFT-FB-T-84-128] 23 p3728 N84-33622

BLECK, M. E.
System for producing high-resolution polarized and unpolarized beams with a tandem accelerator
[DE84-004054] 09 p1388 N84-19083

BLEDSOE, M. R.
The method of complex characteristics for design of transonic compressors 17 p2599 N84-26659

BLEEKER, D. E.
A real-time air dispersion modeling system
[AD-A141405] 19 p3052 N84-29368

BLEIDORN, C. G.
Decision recommendation board (DRB) report. Transition of shale JP-4 to the operational validation phase
[AD-A144504] 24 p3890 N84-34633

BLEKHER, P. M.
Computations of the current profile influence on tearing instability
[NASA-TM-77285] 06 p0920 N84-15981

BLEKHEROV, V. M.
Production methods and properties of metal powders for high temperature pressing 24 p3877 N84-34567

BLENSKI, G.
Results of permanent Doppler measurements at the satellite observation station Wettzell 08 p1174 N84-17646

BLES, W.
A re-evaluations of cancellation theory: Visual, vestibular and oculomotor contributions to perceived object motion
[AD-B082936] 19 p3067 N84-29455

BLESS, S. J.
FOD (Foreign Object Damage) generation by aircraft tires
[AD-A133319] 06 p0786 N84-15146
High strain rate charactertzation of materials
[AD-A134342] 07 p1016 N84-16583

BLESS, W.
Motion sickness
[IZF-1983-21] 12 p1866 N84-22158

BLESSING, G. V.
Assessment of ultrasonic reference block calibration methodology
[PB83-225870] 01 p0086 N84-10558

BLESSINGER, D.
High resolution cathodoluminescence of yellow and waterclear CVD polycrystalline ZnS
[AD-A141100] 19 p3110 N84-29759

BLEVINS, B. A.
Multifrequency synthetic aperture radar antenna comparison study
[NASA-CR-171736] 08 p1143 N84-17434

BLEVINS, R. D.
Acoustic resonance in heat-exchanger tube banks
[DE83-011413] 02 p0219 N84-11436

BLEY, J. A., JR.
Eruption of permanent dentition in rhesus mor ‹eys exposed to ELF (Extremely low frequency) fields
[AD-A132065] 03 p0413 N84-12703

BLICK, D. W.
Effects of ionizing radiation and restraint stress on activity, avoidance conditioning, and stomach ulcers in albino rats
[AD-A141515] 19 p2984 N84-28911

BLICKENSDERFER, R.
Ball-on-block impact-spalling wear test and results on several iron alloys
[PB84-115633] 09 p1319 N84-18615

BLICKWEDEL, T. W.
Battery test results on Gould GC2-EV200
[DE84-900635] 20 p3181 N84-30208

BLIEK, A.
A pioneer deep ocean mining venture
[PB84-199645] 21 p3433 N84-31780

BLIEM, C. J.
Preliminary performance estimates and value analyses for binary geothermal power plants using ammonia-water mixtures as working fluids
[DE84-006124] 11 p1674 N84-20921

BLIEM, C. J., JR.
Available energy method for evaluating thermodynamic performance of heat pump systems
[DE84-005188] 10 p1494 N84-19766

BLIGHT, J. D.
Integrated Application of Active Controls (IAAC) technology to an advanced subsonic transport project: Current and advanced act control system definition study, volume 1
[NASA-CR-165631-VOL-1] 19 p2967 N84-28802
Integrated Application of Active Controls (IAAC) technology to an advanced subsonic transport project: Current and advanced act control system definition study. Volume 2: Appendices
[NASA-CR-165631-VOL-2] 19 p2967 N84-28803

BLIMMEL, J.
Analyses on the low voltage free electron laser
[AD-A143681] 23 p3754 N84-33796

BLINK, J. A.
Lithium equation-of-state
[DE83-017988] 03 p0347 N84-12253
Disassembly of isochorically heated liquids
[DE84-009536] 19 p3108 N84-29747

BLISS, D. B.
Wind tunnel wall interference
[AD-A131396] 02 p0175 N84-11149

BLISS, E. S.
Three wavelength optical alignment of the Nova laser
[DE84-009702] 18 p2847 N84-28079

BLITZ, A. L.
Tracking theory for airborne surveillance radars
[AD-A131792] 03 p0361 N84-12350
Optimal maneuver detection and estimation in multiobject tracking
[AD-P002899] 13 p1981 N84-22858

BLOCH, L.
Pilot climate data system user's guide
[NASA-TM-86084] 21 p3463 N84-31958

BLOCK, J.
Monitoring of defect progression by acoustic emission
01 p0033 N84-10206
Methods for nondestructive tests of CFRP laminates
10 p1452 N84-19482
BLOCK, L.
Three-dimensional potential structure associated with Birkeland currents
[TRITA-EPP-83-09] 12 p1912 N84-22455
BLOCK, M.
Migration of natural gas and resevoir formation in east lower Saxony
[BMFT-FB-T-83-153] 02 p0250 N84-11639
BLOCK, M. G.
Yellow ophthalmic filters in the visual acquisition of aircraft
[AD-A138536] 13 p2020 N84-23097
BLOCK, P. J. W.
Installation noise measurements of model SR and CR propellers
[NASA-TM-85790] 15 p2403 N84-25425
Noise generated by a propeller in a wake
[NASA-TM-85794] 16 p2553 N84-26382
BLOCKER, C. A.
Emittance calculations for the Stanford linear collider injector
[DE83-011851] 02 p0290 N84-11904
BLODGET, H. W.
Final comparison of TM and MSS data for surface mine assessment in Logan County, West Virginia
20 p3216 N84-30430
Age discrimination among basalt flows using digitally enhanced LANDSAT imagery
[E84-10189] 21 p3430 N84-31760
BLOEMBERGEN, N.
Joint services electronics program
[AD-A130985] 02 p0213 N84-11392
Picosecond laser pulse interactions with metallic and semiconductor surfaces
[AD-A135693] 09 p1395 N84-19112
Interaction of high intensity subnanosecond CO2 laser pulses with molecules
[AD-A143654] 23 p3754 N84-33795
BLOETSCHER, H.
Deterministic and random phase noise of oscillation
[DFVLR-MITT-83-11] 10 p1483 N84-19695
BLOKH, Y. L.
Nonuniformity and effectiveness of light collection in a large scintillation counter of ionizing radiation
24 p3994 N84-35277
BLOKHUIS, A.
Locally 4-by-4 grid graphs
[CWI-PM-R8401] 19 p3095 N84-29659
BLOM, A. F.
Fatigue of fiber composites
[FFA-TN-1983-30] 03 p0348 N84-12260
An X-ray radiography study of delamination growth in notched carbon/epoxy laminates
[FFA-TN-1983-29] 03 p0386 N84-12516
Delamination growth in notched graphite/epoxy laminates under compression fatigue loading
[FFA-TN-1983-57] 15 p2284 N84-24713
BLOM, H. A. P.
Application of a probabilistic tracking filter: A first evaluation with emphasis on air traffic control. Part 1: Evaluation results
[NLR-TR-82088-U-PT-1] 23 p3692 N84-33397
Application of a probabilistic tracking filter: A first evaluation with emphasis on air traffic control. Part 2: Live traffic samples
[NLR-TR-82088-U-PT-2] 23 p3692 N84-33398
Detection-filter representations for Markov jump diffusions
[NLR-TR-82019-U] 23 p3820 N84-34226
BLOM, R.
Substance geology of the western desert in Egypt and Sudan revealed by Shuttle Imaging Radar (SIR-A)
07 p0987 N84-16392
BLOMEIER, K.
Additionally compressed titanium fine cast components 14 p2094 N84-23559
BLOMMER, E. J.
A summary of the mechanisms of delayed detonation
13 p1947 N84-22658
BLOMQUIST, A.
Investigation of the positioning system at Recal-Decca Survey Ltd. (RDS), London
[FOA-C-20476-D8(E2,E3)] 07 p0950 N84-16162
BLOMQVIST, C. G.
Cardiac chamber volumes by echocardiography using a new mathematical method: A promising technique for zero-G use 09 p1358 N84-18874
BLOOM, F.
On the damped nonlinear equation w sub tt = sigma (w) sub xx gamma w sub t
[AD-A142263] 19 p3008 N84-29070
BLOOM, L. R.
Alternative transmission media for third-generation interface standards
[PB83-238345] 03 p0363 N84-12365
BLOOM, R. W.
Military deception: A clinical psychological analysis
[AD-P003239] 18 p2902 N84-28406
BLOOM, S. C.
Multivariate optimum interpolation of surface pressure and winds over oceans 12 p1853 N84-22069
Design of a linear projector for use with the normal modes of the GLAS 4th order GCM
12 p1853 N84-22070
Computational aspects of the nonlinear normal mode initialization of the GLAS 4th order GCM
12 p1853 N84-22071
BLOOM, T.
Dynamic module replacement in a distributed programming system
[AD-A140619] 17 p2752 N84-27469
BLOOM, W.
Suicide gestures of USAF basic trainees
[AD-P003245] 18 p2903 N84-28412
BLOOMBERG, H. W.
Study of e-beam propagation in the ionosphere and magnetosphere
[AD-A142206] 19 p3054 N84-29380
BLOOMFIELD, J. R.
Tracking with intermittent radar coverage. 1: Interruptions after each collected frame of imagery
[AD-P003322] 18 p2910 N84-28458
Tracking with intermittent radar coverage. 2: Interruptions after two or more consecutively-collected frames of imagery
[AD-P003323] 18 p2910 N84-28459
BLOOMFIELD, L. A.
High resolution ultraviolet laser spectroscopy of mercury and helium 06 p0800 N84-15214
BLOOMFIELD, P.
Simplified confidence intervals for an awkward nonlinear model
[AD-A136403] 09 p1374 N84-18975
BLOSS, W. H.
Technical use of solar energy. Part 1. Thin films solar cells
[BMFT-FB-T-83-298-PT-1] 15 p2362 N84-25172
BLOSSER, M. L.
Theoretical basis for design of thermal-stress-free fasteners
[NASA-TP-2226] 04 p0548 N84-13614
Operational modules for space station construction
[NASA-TM-85772] 12 p1779 N84-21608
BLOTTNER, F. G.
Thermal modeling of laser welding with a quasi-1-dimensional approach
[DE84-001292] 04 p0544 N84-13585
BLOUNT, D. H.
Propulsion apparatus and method using boil-off gas from a cryogenic liquid
[NASA-CASE-MFS-25946-1] 06 p0796 N84-15183
BLOYER, E.
investigation of a microwave discharge in argon/helium mixtures
[LP-202] 07 p0995 N84-16451
BLOYET, E.
Microwave discharges in capillary tubes
[LP-203] 16 p2558 N84-26410
Role of excitation frequency in discharges created by surface waves
[LP-205] 16 p2558 N84-26411
BLUE, G. D.
A study of methods for alleviation of flow decay risk to the Galileo spacecraft 20 p3137 N84-29919
Purification of nitrogen tetroxide for long-term reliability
20 p3137 N84-29920
BLUE, M. D.
Investigation of the effects of long-duration exposure on active optical system components (S0050)
15 p2279 N84-24687
BLUE, R. I.
Content duplication among documents on specific subjects 21 p3516 N84-32274
BLUESTEIN, H.
Analysis of lidar, radar and satellite measurements on severe thunderstorms and their environments
24 p3928 N84-34864
BLUHM, S. A.
Advanced cogeneration research study: Executive summary
[NASA-CR-173467] 12 p1841 N84-22005
Solar thermal system engineering guidebook
[NASA-CR-173432] 15 p2361 N84-25165
BLUM, L.
An exactly solvable model for ideally polarizable interfaces
[AD-A138719] 13 p2033 N84-23182
The ideally polarizable interface: A solvable model and general sum rules
[AD-A138720] 13 p2036 N84-23207
BLUMBERG, H.
Polyester fiber reinforcement of thermosetting molding compounds
[BMFT-FB-T-83-155] 05 p0661 N84-14342
BLUMENTHAL, D. L.
Characterization of reactants, reaction mechanisms and reaction products leading to extreme acid rain and acid aerosol conditions in southern California
[PB83-252825] 04 p0561 N84-13697
BLUMENTHAL, I. S.
Bounding the costs of hedging against Space Shuttle contingencies: A policy analytic approach
[N1829-AF] 02 p0184 N84-11196
BLUMENTHAL, S.
Pluribus satellite IMP (Interface Message Provision) development mobile access terminal network
[AD-A132690] 05 p0670 N84-14405
Pluribus satellite IMP (Interface Message Provision) development mobile access terminal network
[AD-A136256] 09 p1298 N84-18486
BLUMENTHAL, W. R.
High temperature failure mechanisms in ceramic polycrystals
[DE84-006641] 13 p1965 N84-22764
Mechanical response of ceramics to creep loading
23 p3760 N84-33830
BLUMER, C. B.
Orbiter windward surface entry Heating: Post-orbital flight test program update 01 p0024 N84-10150
BLUMSACK, H. L.
Design, fabrication and testing of a ruggedized fiberoptic cable 11 p1724 N84-21245
BLY, S.
PICTURE: An interactive tool for creating visual aids. Reference manual, version 2.0
[DE84-007447] 12 p1884 N84-22279
BLY, S. A.
Graphics specification for graphical requirements for computer-aided control system design
[DE84-004367] 11 p1708 N84-21135
BLYLER, L. L., JR.
Buckling of optical fibers within elastomers used in an embedded-core cable structure
11 p1722 N84-21233
BLYUMENTSEV, A. M.
Development of a method and apparatus for quantitative assessment of the iron content of rocks and ores by means of data obtained from borehole radiometry
[BLL-M-28724-(5828.4)] 02 p0246 N84-11613
BOAK, J. L.
Average sedimentary rock rare Earth element patterns and crustal evolution: Some observations and implications from the 3800 Ma ISUA supracrustal belt, West Greenland 11 p1678 N84-20953
BOARD, M. P.
Ambient temperature testing of the G-tunnel heated block
[DE84-009927] 20 p3298 N84-30945
BOASSON, M.
Stall delay by boundary layer blowing and/or suction
21 p3323 N84-31086
BOATMAN, P. J.
Application of JOVIAL (J-73) to digital flight controls
[AD-P003525] 21 p3330 N84-31129
BOATWRIGHT, G. O.
A first evaluation of LANDSAT TM data to monitor suspended sediments in lakes 20 p3215 N84-30425
BOAZ, W.
Numeric and fluid dynamic representation of tornadic double vortex thunderstorms
[NASA-CR-171023] 15 p2370 N84-25217
BOBB, L. C.
Interferometrically tuned laser resonator
[AD-D011125] 22 p3600 N84-32800
Gated fiber optic transmission
[AD-D011197] 24 p3963 N84-35094
BOBBITT, P. J.
Supersonic loads due to shuttle-orbiter/external-tank attachment structures 01 p0019 N84-10122
BOBER, L. J.
Summary of recent NASA propeller research
[NASA-TM-83733] 22 p3529 N84-32344
BOBERG, S.
Transient circuit overvoltages in Swedish manufacturing industry
[FOA-E-30002-E26] 23 p3744 N84-33735
BOBINA, M. N.
Niobizing carbon steels
[BLL-M-35502-(5828.4)] 12 p1795 N84-21710
Composition and structure of multicomponent vanadium- and niobium-base coatings
[BLL-M-35657-(5828.4)] 22 p3550 N84-32474

BOBKO, D. J.
Video games: A human factors guide to visual display design and instructional system design
[AD-P003368] 18 p2914 N84-28480
BOBKOV, A. O.
On the elastic wave velocity distribution beneath the continental slope of the Kuril trench
19 p3061 N84-29421
BOBOWIEC, P. W.
Characterization of the structure and substructure of thermally transformation cycled Cu-Zn-Al shape memory alloys
[AD-A132341] 04 p0499 N84-13270
BOBROFF, N.
Sounding rocket XUV observations of Capella
04 p0618 N84-14078
BOBROV, E.
High-field Tokamaks with DD-DT operation and tritium-breeding requirements
[DE83-013092] 02 p0296 N84-11939
BOBROW, J. E.
Optimal control of robotic manipulators
01 p0127 N84-10833
BOBROW, R.
Research in knowledge representation for natural language understanding
[AD-A134102] 05 p0726 N84-14765
BOBROWICZ, F. W.
Vectorized Monte Carlo photon transport
[DE83-014807] 03 p0434 N84-12843
BOBYARCHICK, A. R.
Structure of the Brevard Zone and Blue Ridge near Lenoir, North Carolina, with observations on oblique crenulation cleavage and a preliminary theory for irrotational structures in shear zones
13 p2014 N84-23067
BOCCARA, A. C.
Photothermal displacement spectroscopy of surfaces and thin films
[DE83-015957] 03 p0350 N84-12279
BOCCHIERI, J. R.
Automated analysis of upper air soundings to specify precipitation type
[PB84-174333] 20 p3248 N84-30617
BOCHAROV, G.
Night landing of 'Soyuz-23' cosmonauts in Lake Tengiz recounted 19 p2972 N84-28837
BOCHAROV, V. N.
Probing a plasma with high-energy beams of atoms using threshold detectors
[DE84-013360] 21 p3502 N84-32195
BOCHER, J. L.
Analysis of experiments on X-ray emission from laser-irradiated targets
[DE84-751157] 24 p3909 N84-34761
BOCHEV, A.
Effects of small-scale plasma disturbance on the IKB-1300 spacecraft potential
[PR-839] 08 p1109 N84-17208
BOCHICCHIO, F.
Search for the radiative decay of a cosmic relic particle with IUE 24 p3982 N84-35231
BOCHSLER, P.
Interpretation of 3He variations in the solar wind
[NASA-TM-85049] 03 p0466 N84-13065
The relative abundance of 3He(++) in the solar wind
03 p0473 N84-13111
Mixed solar wind originating from coronal regions of different temperatures 03 p0473 N84-13114
BOCHUAN, H.
The forecasts of computers and the policy-making of China
[AD-A141557] 19 p3072 N84-29488
BOCHVAR, A. G.
Relationship of structure with cyclic crack resistance of Alpha-titanium alloys 24 p3875 N84-34557
BOCK, H. G.
A multiple shooting algorithm for direct solution of optimal control problems
[PREPRINT-589] 02 p0279 N84-11827
BOCK, J.
System feasibility study on rendezvous and docking in transfer orbit, volume 1
[PV6-13/82-VOL-1] 12 p1776 N84-21588
System feasibility study on rendezvous and docking in transfer orbit, volume 2
[PRV6-13/82] 12 p1776 N84-21589
BOCK, L. K.
An evaluation of two reliability and maintainability information systems
[AD-A143438] 22 p3674 N84-33290
BOCK, M. E.
Distribution results for positive definite quadratic forms with repeated roots
[AD-A143450] 22 p3645 N84-33115
BOCK, Y.
Reference frame requirements and the MERIT campaign
[REPT-329] 07 p1029 N84-16671
On the establishment and maintenance of a modern conventional terrestrial reference system
[NOAA-TR-NOS95-NGS-24] 07 p1029 N84-16672
BOCKAROV, V. N.
Protective plasma envelope
[DE84-013316] 21 p3502 N84-32194
BOCKHOFF, M.
Compressed air exhaust silencers, summary
[CETIM-11-H-275] 21 p3414 N84-31650
BOCKOVSKII, A. M.
Slavutich high-cobalt WC-Co-matrix alloy
[CSIR-TRANS-1739] 22 p3552 N84-32490
BOCTOR, M. L.
An analysis of prop-fan/airframe aerodynamic integration
[NASA-CR-152186] 10 p1419 N84-19281
BODANSKY, D.
Cross sections relevant to gamma-ray astronomy: Alpha-particle-induced reactions
[DE83-015533] 03 p0461 N84-13038
Identification of gamma-ray lines observed from SS433
[DE84-013829] 22 p3681 N84-33335
BODE, H.
Influence of the tramp elements on the properties of steel, metallurgical processes for controlling the contents of tramp elements
[BMFT-FB-T-83-189] 07 p0977 N84-16331
BODE, L.
Experimental evaluation of a high frequency radio data terminal in the ship-shore mode
[CRC-1375] 21 p3382 N84-31458
BODE, M. F.
Observation of the interstellar ice grain feature in the Taurus molecular clouds
[DE84-004316] 10 p1595 N84-20453
Observations of the interstellar ice grain feature in the Taurus molecular clouds 16 p2570 N84-26493
Observations of the interstellar ice grain feature in the Taurus molecular clouds 18 p2948 N84-28691
BODECHTEL, J.
Use of remote sensing methods for the ecological mapping project of the European community
03 p0395 N84-12580
The modular optoelectronic scanner (MOMS) on STS-7, June 83 03 p0396 N84-12589
Requirements for spaceborne remote sensing in geology 08 p1175 N84-17657
Modular Optoelectronic Multispectral Scanner (MOMS) program outline and future aspects
23 p3764 N84-33861
Modular Optoelectronic Multispectral Scanner (MOMS)-01 on STS-7 and STS-11: Missions and results
23 p3765 N84-33862
The information network for a real-time controlled data acquisition of the Modular Optoelectronic Multispectral Scanner (MOMS) 23 p3765 N84-33863
Spectral significance of Modular Optoelectronic Multispectral Scanner (MOMS) versus LANDSAT data and future aspects: Preliminary results
23 p3785 N84-33864
BODEK, I.
Methods for estimating physicochemical properties of inorganic chemicals of environmental concern
[AD-A144154] 24 p3917 N84-34799
BODEN, A.
GfW handbook: Irradiation test guidelines for radiation hardness of electronic components
[HMI-B-380] 17 p2664 N84-26994
BODENSCHATZ, C. D.
An application of the H-function to curve-fitting and density estimation
[AD-A141045] 18 p2925 N84-28553
BODHAINE, B. A.
Light scattering condensation nuclei, and air mass trajectories at Whiteface Mountain: Summer 1982
[PB84-104363] 08 p1188 N84-17742
Geophysical monitoring for climatic change Number 11,
[PB84-181841] 21 p3449 N84-31883
BODIN, S.
World Weather Watch Planning report no. 38: Very short range forecasting: Observations, methods and systems
[WMO-621] 15 p2371 N84-25226
BODNAR, D. G.
A 360-degree scanning antenna with cylindrical array of slotted waveguides
[AD-D011189] 24 p3893 N84-34853
BODNER, S. E.
Analysis of stability and symmetry implications for ICF
[DE84-000640] 04 p0540 N84-13556
BODROV, V. A.
The concept of working capacity of the flight crew
08 p1202 N84-17837
Medical-psychological problems of the occupational reliability of flight personnel 23 p3807 N84-34136
BODUROGLU, H.
Surface cracks in a plate of finite width under tension or bending
[NASA-CR-172309] 10 p1516 N84-19926
BODVARSSON, G. S.
A summary of modeling studies of the Krafla Geothermal Field, Iceland
[DE84-000939] 05 p0697 N84-14578
Analysis of production data from the Krafla geothermal field, Iceland
[DE84-006881] 13 p2006 N84-23014
Generating capacity of the Heber geothermal field, California
[DE84-006883] 13 p2009 N84-23030
BODWIN, G. T.
Problems at the interface between perturbative and nonperturbative quantum chromodynamics
[DE84-002375] 06 p0926 N84-16018
BOEBINGER, G.
Infrared nonlinear optics 22 p3682 N84-33346
BOECK, H.
Improvement of flat plate collectors for solar energy conversion
[BMFT-FB-T-84-042] 16 p2519 N84-26167
BOECKING, K.
The lock-on-before-launch weapon delivery and display/control consideration 06 p0772 N84-15056
BOECKLE, G.
Laser light scattering at the POSEIDON plasma focus device 10 p1584 N84-20384
BOEDIGHEIMER, R. A.
An application of the H-function to curve-fitting and density estimation
[AD-A141045] 18 p2925 N84-28553
BOEH, M.
Operation and calibration of the Wincharger 450 model SWECS
[DE84-009757] 20 p3237 N84-30546
BOEHLAND, T.
Investigation of reactions of the methylene radical by means of a far infrared-laser magnetic resonance (FIR-LMR) spectrometer
[MPIS-4/1984] 24 p3881 N84-34588
BOEHLER, R.
High pressure equation of state of Li, Na and K
[DE83-014844] 02 p0191 N84-11238
BOEHM-DAVIS, D. A.
Representation of information in software documentation
[AD-A131470] 02 p0273 N84-11783
Documentation of concurrent programs
[AD-A131476] 02 p0273 N84-11784
BOEHM, C.
The spectrum of the symbiotic star CH Cygni in January 1984 24 p3980 N84-35210
BOEHM, P.
Symposium on Heat Pumps per DIN 8900
[BLL-TRANS-T5843/BG-MRS1796-82]
01 p0076 N84-10500
BOEHM, W.
Development of contact materials made by internal oxidation
[BMFT-FB-T-83-196] 07 p0977 N84-16332
Development of contact materials based on Ag made by powder metallurgy
[BMFT-FB-T-83-248] 10 p1463 N84-19557
BOEHME, D. R.
The X-ray-diffraction analysis of corrosion products of Fe-Ni-Cr alloys formed in molten-nitrate salts
[DE83-013317] 01 p0046 N84-10293
BOEHME, R.
Public water supply base map 1 : 200,000
19 p3040 N84-29287
BOEHMER, M.
Metallurgy: Development of material recovery
16 p2465 N84-25795
BOEKEE, D. E.
A generalized class of certainty and information measures
[NLR-MP-82038-U] 15 p2397 N84-25379
BOELCS, A.
Aeroelasticity in turbomachine-cascades
[AD-A141905] 20 p3131 N84-29680
BOENING, H. J.
Commissioning tests of the Bonneville Power Administration 30 MJ superconducting magnetic energy storage unit
[DE84-006033] 20 p3285 N84-30660

BOERIO, F. J.
Structure and properties of polymers and organosilanes adsorbed onto oxidized aluminum and titanium
[AD-A130753] 01 p0050 N84-10321
Structure and properties of polymers and organosilanes absorbed onto oxidized aluminum and titanium
[AD-A143935] 23 p3724 N84-33599

BOERMANS, L. M. M.
Wind tunnel tests on an outer wing segment of the ASW-19X sailplane
[VTH-LR-369] 10 p1423 N84-19305
Investigation of the laminar turbulent boundary layer transition on the rotor blades of the 25 m wind turbine HAT
[VTH-LR-390] 12 p1817 N84-21844

BOERNER, S.
Digital transponder 11/14 GHz, 120 Mbit/sec. Phase 2: Transponder test equipment and system measurements
[BMFT-FB-W-83-013] 07 p0994 N84-16448

BOERNER, W. M.
Polarization utilization in radar target reconstruction: C-wide (Multi-frequency) band relationship of a target's characteristic operators with its unique set of natural eigenfrequencies
[AD-A140092] 15 p2321 N84-24938

BOERS, R.
Lidar observations and modeling of atmospheric mixed layer entrainment processes 21 p3437 N84-31807

BOERSEN, S. J.
Half-model testing in the NLR high speed wind tunnel HST: Its technique and application
14 p2098 N84-23588
Half-model testing in the NLR High Speed Tunnel (HST): Its technique and application
[NLR-MP-83036-U] 17 p2601 N84-26675
Half-model testing in the NLR high speed wind tunnel (HST)
[NLR-TR-82123-U] 20 p3132 N84-29891

BOERSTOEL, J. W.
Numerical modeling and fast-solver calculation of approximately normal shocks
[NLR-MP-82026-U] 06 p0902 N84-15856
Integrating multigrid relaxation into a robust fast-solver for transonic potential flows around lifting airfoils
[NLR-MP-83021-U] 17 p2601 N84-26673
Grid-size reduction in flow calculations on infinite domains by higher-order far-field asymptotics in numerical boundary conditions
[NLR-MP-83029-U] 20 p3187 N84-30253

BOES, E. C.
Tenth Photovoltaic Concentrator Project Integration Meeting
[DE83-012336] 02 p0242 N84-11587
Photovoltaic concentrators: Recent developments
[DE84-001641] 04 p0559 N84-13687
Photovoltaic concentrators: Present status and future role
[DE84-005520] 20 p3235 N84-30532

BOESCH, N.
Scope for active noise abatement in vehicle diesel engines
[BLL-M-28767-(5825.4)] 20 p3290 N84-30885

BOESINGER, T.
Observations of short period magnetic pulsations during the SBARMO-79 campaign: Data summary
[REPT-90/1982] 13 p2012 N84-23052

BOESSMANN, D.
The computerization of material safety data sheet information
[AD-A131992] 03 p0459 N84-13021

BOESSWETTER, C.
Layout of a SAR sensor for Spacelab and satellite. Part 1: Design considerations for fundamental SAR parameters
[ESA-TT-802] 03 p0343 N84-12224

BOETTCHER, R. J.
Development of mechanically-stacked multijunction solar cell for concentrator applications
[DE84-008355] 15 p2363 N84-25177

BOETTINGER, W. J.
Application of solidification theory to rapid solidification processing
[AD-A134132] 05 p0653 N84-14291
Application of solidification theory to rapid solidification processing
[AD-A135982] 09 p1283 N84-18380

BOETTNER, J. C.
Experimental study and modeling of the kinetics of hydrocarbon combustion 15 p2292 N84-24754
Experimental and theoretical study of NOx by reduction by NHi in gas phase 17 p2724 N84-27340

BOFILIOS, D. A.
Experimental study of noise transmission into a general aviation aircraft
[NASA-CR-172357] 20 p3290 N84-30888

BOGACZ, S. A.
Coupling of Rayleigh-like waves with zero sound modes in normal He-3
[DE84-010519] 22 p3653 N84-33153

BOGANOV, A. P.
Structure and properties of amorphous powder material after explosive loading 24 p3870 N84-34526

BOGARD, D. D.
Cosmic ray exposure of SNC meteorites and constraints on their derivation from Mars 11 p1754 N84-21449

BOGATKO, V. I.
Regular reflection of strong shock wave by wedge surface 17 p2647 N84-26932

BOGDAN, E. J.
Assessment methodology for the A-7E: Scale model coupling experiments
[DE84-003139] 09 p1256 N84-18199

BOGDANOV, N. G.
Use of vitamins during adaptation to high altitudes
20 p3252 N84-30643

BOGDANOV, V. I.
Criteria for accuracy of rotary transformers
17 p2635 N84-26857

BOGDANOVICH, L. V.
A melt for the electrolytic application of titanium plating
[BLL-OA-TRANS-3111-(6L96.3)]
06 p0804 N84-15241

BOGDANOVICH, V. A.
Detection of space-time signal with scattering from background of isotropic noise field
17 p2632 N84-26835

BOGDANOWICZ, R. A.
Benchmarking the selection and projection operations and ordering capabilities of relational database machines
[AD-A136776] 10 p1593 N84-20438

BOGER, D. C.
Statistical models for estimating overhead costs
[AD-A137351] 10 p1593 N84-20444

BOGERS, W. J.
The Schuler principle: A discussion of some facts and misconceptions
[EUT-83-E-136] 10 p1427 N84-19330

BOGGIATTO, D.
Development of a spacecraft infrared test technique as an alternative to solar simulation: First steps on L-SAT thermal model 10 p1439 N84-19398
The thermal design of L-SAT large telecommunication satellite 10 p1441 N84-19414

BOGGS, D. H.
A new parameterization of an empirical model for wind/ocean scatterometry 17 p2712 N84-27269
First global analysis of SEASAT scatterometer winds and potential for meteorological research
17 p2720 N84-27315

BOGGS, T. L.
Modeling the self-deflagration of HMX
13 p1951 N84-22682

BOGHANI, A. B.
Catalog of selected heavy duty transport energy management models
[NASA-CR-168299] 05 p0761 N84-14991

BOGLER, P. L.
Optical propagation and communication
22 p3683 N84-33355

BOGNER, G.
Superconducting AC generators
[BMFT-FB-T-84-102] 23 p3744 N84-33737

BOGNER, R. S.
Prediction model for the life of nickel-cadmium batteries in geosynchronous orbit satellites
23 p3737 N84-33686

BOGO, V.
Comparative effects of bremsstrahlung, gamma, and electron radiation on rat motor performance
[AD-P003250] 18 p2904 N84-28417
The toxicity of petroleum and shale JP5
[AD-A142670] 20 p3260 N84-30690

BOGOLYUBOV, V. M.
Effect of decimeter waves on physical-chemical state of membranes, thymocyte chromatin and immunological reactivity of an organism 17 p2742 N84-27411

BOGOMOLOV, N. M.
Integral equations of electrodynamics in stratified media
[REPT-223] 17 p2757 N84-27501

BOGOMOLOV, V. A.
Movement mechanism of solitary synoptic eddies
17 p2707 N84-27239

BOGREN, V.
The research of National Defence's (FOA) future policy document on space technology
[FOA-A-30034-E1] 15 p2265 N84-24602

BOGUSCH, R. J.
A model to investigate losses and exchange ratios in large-scale air-to-air engagements
[AD-A131410] 02 p0178 N84-11166

BOGUSHEVICH, M. S.
Modeling of lethal electric shock
22 p3629 N84-33000

BOGUTA, J.
High energy nuclear structures
[DE84-010062] 20 p3299 N84-30947

BOHACHEVSKY, I. O.
Intelligent optical design program
[DE84-010071] 20 p3279 N84-30813

BOHAN, W. A.
Navy tactical applications guide. Volume 5, Part 1: Indian Ocean (Red Sea/Persian Gulf) weather analysis and forecast applications
[AD-A134412] 07 p1039 N84-16740
Navy tactical applications guide. Operational environmental satellites. Polar-orbiting satellites geostationary satellites, spacecraft, sensors, imagery
[AD-A135486] 08 p1113 N84-17240

BOHLAENDER, P.
Automated detection of internal and surface defects in moving strip
[BMFT-FB-T-84-079] 19 p3033 N84-29239

BOHLANDER, R. A.
Far Infrared Radiometric Spectrometer (FIRRS)
[AD-A133552] 06 p0847 N84-15527

BOHLIN, R. C.
Positive-feedback photometric drift in the PDS
18 p2840 N84-28025

BOHM, A.
Spinorial relativistic rotator: The transformation from quasi-Newtonian to Minokowski coordinates
[DE84-009091] 20 p3282 N84-30839

BOHN, M. S.
Oil/salt hydrate direct-contact heat-exchange experiments
[DE83-009396] 01 p0082 N84-10533
Experimental study of three-dimensional natural convection at high Rayleigh number
[DE83-011982] 04 p0537 N84-13530
Air/molten salt direct-contact heat-transfer experiment and economic analysis
[DE84-000080] 11 p1675 N84-20928

BOHN, P.
CAD/CAM and scientific data management at Dassault 12 p1890 N84-22307

BOHN, T. S.
Development of an engineering-scale nuclear test of a solid-breeder fusion-blanket concept
[DE83-016861] 01 p0151 N84-10992

BOHNE, A. R.
Joint agency turbulence experiment: Environmental research paper
[AD-A137167] 11 p1687 N84-21005

BOHNER, M.
Coincident extraction of line objects from stereo image pairs
[AD-A133892] 05 p0697 N84-14576

BOHNERT, G. W.
Solvent stress-cracking study for a matrix material
[DE83-014075] 02 p0188 N84-11224

BOHSE, J. R.
Heat Capacity Mapping Radiometer (HCMR) data processing algorithm, calibration, and flight performance evaluation
[E84-10153] 17 p2709 N84-27248

BOHUA, Z.
Acta armamentarii (selected articles)
[AD-A143904] 23 p3726 N84-33610

BOIARSKI, A. A.
Carbon dioxide sensor technology
[AD-A133688] 05 p0716 N84-14690

BOICOURT, W. C.
Long-term salinity, temperature and current measurements in upper Chesapeake Bay
[PB84-180280] 20 p3251 N84-30636

BOILOT, J. P.
Ion-ion correlations and phase transitions in nascion type materials 11 p1743 N84-21375

BOISON, M.
Study on the baffle system of the sounding rocket payload INTER-ZODIAK
[BMFT-FB-W-83-015] 07 p0962 N84-16239
Microwave remote sensing experiment for first Spacelab mission
[BMFT-FB-W-83-022] 10 p1527 N84-20001

BOISRAME, J. P.
Hydrogen fatigue test
[CETIM-12-F-400] 21 p3369 N84-31373

BOISSE-LAPORTE, C.
Role of excitation frequency in discharges created by surface waves
[LP-205] 16 p2558 N84-26411

BOISSIN
Investigation of LANDSAT D Thematic Mapper geometric performance: Line to line and band to band registration
[E84-10187] 21 p3429 N84-31758
BOITHIAS, L.
D-1 statistical model of tropospheric multipath propagation 15 p2322 N84-24944
Two types of errors made in prediction wave attenuation by rain 15 p2322 N84-24945
BOJANOWSKA, R.
Study of the process of destruction of fibroconcrete slabs under a static load simulating the action of a motor vehicle's wheel on a bridge
[ISSN-0208-5658] 23 p3726 N84-33612
BOJKOV, R. D.
WMO project on research and monitoring of atmospheric CO2. Report of the WMO(CAS) Meeting of Experts on the CO2 Concentrations from Pre-Industrial Times to I.G.Y.
[REPT-1] 24 p3934 N84-34900
BOKHARI, S. H.
Augmenting computer networks
[NASA-CR-172399] 20 p3277 N84-30800
BOKSENBERG, A.
The broad absorption line region in NGC 4151 24 p3971 N84-35146
BOKSHTEIN, B. S.
Nickel diffusion along single inter-phase boundaries
[BLL-M-35109-(5828.4)] 01 p0040 N84-10254
BOLAND, A. J.
Investigation of the Rayleigh critical angle phenomenon for the characterization of surface properties
[AD-A131530] 03 p0360 N84-12340
BOLAND, J. M.
Finite elements and the divergence constraint for viscous flows 04 p0530 N84-13486
BOLANDER, G.
Distance measurement to line of sight obstacles close to roads, a commission from Statens Vaeg och Trafikinstitute (VTI)
[FOA-C-30333-E1] 08 p1165 N84-17586
Scintillometer for measuring atmospheric turbulence
[FOA-C-30363-E1] 23 p3752 N84-33785
BOLDT, E.
Optical characteristics of young quasars as sources of the cosmic X-ray background
[NASA-TM-85069] 11 p1760 N84-21488
BOLDT, T. R.
Advanced aircraft electrical system control technology demonstrator. Phase 1: Requirements analysis & preliminary design. Phase 2: Detailed design
[AD-A136758] 10 p1428 N84-19337
BOLDYREV, S. A.
The seismological investigations of the World Ocean: The state of the problem 19 p3059 N84-29412
Seismological investigations in the Indian Ocean by autonomous OBS 19 p3060 N84-29416
Dominant depth of sources in the Kuril-Kamchatka earthquake focal zone from observations by surface and bottom stations 19 p3060 N84-29419
Seismicity of Iceland and the adjoining region of the Atlantic Ocean 19 p3061 N84-29423
BOLES, D. B.
The limits of multiple resource theory: The role of task correlation/integration in optimal display formatting
[AD-A136692] 10 p1554 N84-20182
A comparison of homogeneous and heterogeneous display formats in information integration and nonintegration tasks
[AD-A136693] 10 p1554 N84-20183
The limits of multiple resource theory in display formatting: Effects of task integration
[AD-P003321] 18 p2910 N84-28457
BOLETIS, E.
Effects of a skewed inlet end wall boundary layer on the 3-D flow field in an annular turbine cascade 07 p0956 N84-16202
Experimental research on secondary flows in annular turbine cascades at the Von Karman Institute 19 p3022 N84-29165
BOLEY, W.
Nuclear moment alignment, relaxation and detection mechanisms
[AD-A131546] 02 p0223 N84-11464
BOLGAR, A. S.
Investigation of the thermophysical properties of high-melting materials with the aid of a complex of instruments
[NASA-TM-77402] 10 p1453 N84-19491
BOLLE, D. M.
Application of surface magnetoplasmons on semiconductor substrates
[AD-A143767] 23 p3830 N84-34293
BOLLE, H.
Fundamentals and physical limits of holographic memories with and without associative recall
[BMFT-FB-DV-83-002] 02 p0225 N84-11475
BOLLENBACHER, G.
Economic competitiveness of fuel cell onsite integrated energy systems
[NASA-TM-83403] 01 p0102 N84-10665
BOLLER, C.
Comparison of fatigue life prediction based on local strains and nominal stresses respectively
[LBF-FB-169(183)] 10 p1518 N84-19937
BOLLER, W.
A 500-watt solid-state RF power amplifier AM-7209( )/VRC
[AD-A129327] 01 p0071 N84-10463
BOLLES, R. C.
Machine intelligence research applied to industrial automation
[PB84-123348] 10 p1473 N84-19618
Three-dimensional locating of industrial parts
[PB84-134790] 11 p1641 N84-20731
BOLLINGER, D.
Dry etching of metallization 12 p1840 N84-21997
BOLLINGER, L. M.
Concept of a superconducting linac for low-velocity ions
[DE84-011740] 21 p3496 N84-32154
Present status and probable future capabilities of heavy-ion linear accelerators
[DE84-011741] 22 p3653 N84-33158
BOLLINGER, W. A.
An online directory of databases for material properties
[DE84-013210] 22 p3643 N84-33099
BOLLMANN, J.
Production of printing originals for multicolor printings using raster plotters working on an electrostatic basis 07 p1018 N84-16604
BOLLMEIER, W. S.
Small wind systems (field evaluation). Volume 4: Small wind system performance data
[DE84-006920] 14 p2173 N84-24014
BOLOTIN, V. V.
Effect of elastically suspended masses on stability of elastic panels in supersonic stream 17 p2650 N84-26949
BOLOTIN, Y. V.
Evaluation of energy characteristics of bipedal walking and running by model analysis 17 p2649 N84-26941
BOLSHAKOVA, O. V.
Simultaneous observations of PC3 pulsations in the magnetosphere and on the ground: Control by the solar wind
[IFSI-83-14] 18 p2953 N84-28717
BOLSTAD, J. O.
Real-time attenuation of heated optical fibers in a nuclear reactor
[DE83-015141] 03 p0438 N84-12873
BOLSVERT, R. F.
Guide to available mathematical software
[PB84-171305] 16 p2545 N84-26337
BOLT, B. A.
State-of-the-Art for assessing earthquake hazards in the United States. Report 20: The contribution of directivity focusing to earthquake intensities
[AD-A132893] 06 p0878 N84-15716
BOLT, P. A.
Portable dynamic pressure generator for static and dynamic calibration of in situ pressure transducers
[NASA-TM-85687] 01 p0083 N84-10538
BOLTAR, K. O.
Investigation of Bragg reflection of electromagnetic surface waves by diffraction grating 21 p3479 N84-32053
BOMAN, J.
On the closure of spaces of sums of ridge functions and the range of the X-ray transform 22 p3635 N84-33035
BOMAR, B. W.
State-space structures for the realization of low roundoff noise digital filters 13 p1987 N84-22900
BOMAR, G. W.
Climatic atlas of Texas
[PB84-162908] 14 p2182 N84-24074
BON, E.
GAME: An interactive graphic system for automatic mesh generation
[CISE-2211] 20 p3275 N84-30790
BONA, J. L.
Numerical schemes for a model for nonlinear dispersive waves
[NASA-CR-175416] 11 p1714 N84-21179
BONADIES, G. N.
Shaft positioning device
[AD-D011087] 22 p3605 N84-32836
BONATTI, J. P.
A preliminary study of the observed vertical mode structure of the summer circulation over tropical South America
[INPE-2914-PRE/426] 07 p1031 N84-16689
Monthly variation of 200 MB flow in the tropics
[INPE-2953-PRE/435] 07 p1032 N84-16695
Vertical mode decomposition and model resolution
[INPE-3230-PRE/580] 24 p3918 N84-34805
BONATZ, M.
Experiment to measure microkinematic processes on the surface of the Earth 02 p0233 N84-11529
Earth tides 10 p1520 N84-19951
BONAVENTURA, G.
Economic study of long distance optical fibre links
[FUB-38-1982] 03 p0443 N84-12908
BONAZOUNTAS, M.
Methods for estimating physicochemical properties of inorganic chemicals of environmental concern
[AD-A144154] 24 p3917 N84-34799
BONCORPS, D.
Methods for developing the navigation and weapon systems of the Mirage 2000 06 p0774 N84-15068
BOND, D. J.
The Z-pinch program at Imperial College 10 p1583 N84-20372
BOND, H. H., JR.
Digital interface for bi-directional communication between a computer and a peripheral device
[NASA-CASE-MSC-20258-1] 18 p2916 N84-28492
BOND, N. A., JR.
Applied psychology in Europe: An ONR perspective
[AD-A133093] 06 p0892 N84-15797
BOND, R. M.
Distributed processing tools definition. Volume 2: Application of software engineering technology
[AD-A137687] 11 p1704 N84-21106
BONDALETOV, V. N.
A mathematical investigation of the induction acceleration of conductors
[AD-A133786] 05 p0741 N84-14870
Transient processes in an inductor system consisting of a flat coil and a multilayer conducting medium
[AD-A139053] 13 p2039 N84-23232
High-voltage spark gap
[AD-A141072] 19 p3013 N84-29097
BONDAR, S. A.
Variation of carrier concentration caused by band structure reconstruction in tellurium and tin-doped Al(x)Ga(1-x)As solid solutions 17 p2636 N84-26881
BONDAR, V. M.
Action of external interference-carrying field on nonuniform multiwire shield 17 p2635 N84-26859
BONDARENKO, D. R.
Interpretation of gravitational anomalies on Mars, Venus and Earth 19 p2975 N84-28859
BONDARENKO, G. S.
A field of pressures of shock waves during a powerful underwater discharge
[AD-A130084] 01 p0078 N84-10510
BONDARENKO, S. I.
Possibility of investigation of Kimberlite pipes by superconductive geomagnetic variation measuring stations
[CSIR-TRANS-1701] 08 p1185 N84-17724
BONDARENKO, T. I.
Parametric excitation of transverse acoustic slot waves in solids by means of microwave electric field 21 p3478 N84-32045
BONDARENKO, V. M.
Scale effect of fiber strength and properties of fiber-based unidirectional composites 23 p3706 N84-33496
BONDARENKO, V. P.
Seizing in friction of composite materials with differing phase compositions 24 p3868 N84-34517
BONDARENKO, Y. V.
System for recording and input to computer of one-dimensional images of dim objects and high-speed processes 24 p3941 N84-34951
BONDAROVSKAYA, V. M.
Ergonomic analysis of human operation of video terminal 21 p3454 N84-31918
BONDI, K. R.
Proceedings of the 3rd Tripartite Conference on Submarine Medicine: France, United Kingdom and the United States
[AD-A133150] 06 p0889 N84-15777
BONDURANT, R. S.
Optical propagation and communication 22 p3683 N84-33355
BONDYOPADHYAY, P. K.
Rotationally symmetric arrays of apertures on conducting spherical surfaces 05 p0673 N84-14419
BONELLE, G. J.
Communications 09 p1269 N84-18265

BONELLO, F. J.
The make or buy decision--its nature and impact
[AD-P002779] 13 p2054 N84-23326
Increasing the Contractor/Subcontractor/Vendor bidding lists
[AD-P002836] 13 p2063 N84-23381
Evaluating the availability, role, and performance of subcontractors in the aerospace industry
[AD-A141408] 19 p3114 N84-29788

BONFANTI, G.
Radioactivity levels in humid and dry fallout gathered in the last 20 years in some points of the Padana Valley (Italy)
[CISE-2089] 05 p0701 N84-14598

BONFATTI, F.
Geographic operators for management of a data base for frequency planning 10 p1476 N84-19646

BONG, S.
Development and characterization analysis of a radar polarimeter
[NASA-CR-175259] 22 p3598 N84-32785

BONHAM, B. H.
Neurocognitive pattern analysis
[AD-A131302] 01 p0114 N84-10740

BONIFACIO, R.
Collective instabilities and high-gain regime free electron laser
[DE84-008172] 15 p2340 N84-25045

BONINO, R.
The performance of 16000 wire mini-drift MWPC system 06 p0912 N84-15922

BONJE, A. J.
Testing polycarbonate for utilization in the production of transparent enclosures
[AD-P003192] 17 p2591 N84-26605

BONNEL, B.
The NEPHOS program: Preliminary results 10 p1536 N84-20061

BONNER, B. P.
Theory of pulse propagation in fluid saturated porous layers
[DE84-002714] 07 p1003 N84-16503

BONNET-BIDAUD, J. M.
Preliminary results of coordinated optical UV and X-ray observations of magnetic white dwarfs in binaries 24 p3980 N84-35216
Ultraviolet orbital variability of the intermediate polars 24 p3980 N84-35217

BONNET, A. L.
Water resources data for Florida, water year 1982. Volume 1A: Northeast Florida surface water
[PB84-162338] 14 p2170 N84-24002

BONNET, C.
A vectorized finite element method for computation of transonic tridimensional potential flows
[SNIAS-832-111-105] 15 p2257 N84-24555

BONNET, D. M.
Water resources data for Florida, water year 1982. Volume 1B: Northeast Florida ground water
[PB84-161876] 14 p2170 N84-24001

BONNET, G.
Thermal control of the SPOT HRV instrument 10 p1445 N84-19441

BONNET, J. A., JR.
Development of alternative energy science and engineering in the Caribbean
[PB84-145648] 12 p1845 N84-22026
Development of alternative energy science and engineering in the Caribbean
[PB84-181106] 20 p3237 N84-30552

BONO, C.
Research in adaptive beamforming for satellite communications
[AD-A133733] 05 p0668 N84-14396

BONO, G.
CRONUS: A distributed operating system
[AD-A139983] 15 p2388 N84-25328

BONO, T. L.
Mechanized contract document preparation and abstract system
[AD-P002750] 13 p2050 N84-23297

BONOLI, C.
An automatic procedure to reduce a large amount of spectrophotometric data 09 p1409 N84-19212

BONOLI, P.
Linear theory of lower hybrid heating
[DE84-010577] 20 p3303 N84-30979
Lower hybrid experiments at the 1 MW level on Alcator C: Heating and current drive
[DE84-010586] 20 p3304 N84-30981
Realistic modelling of lower hybrid current drive with multiple codes
[DE84-010576] 20 p3304 N84-30982

BONORA, S.
Spread spectrum transmission. Part 1: General characteristics
[FUB-49-1982-PT-1] 06 p0826 N84-15385
Geographic operators for management of a data base for frequency planning 10 p1476 N84-19646

BONTING, S. L.
Crystallization of the membrane protein rhodopsin 23 p3804 N84-34120

BONYHADY, K. A.
Magnetohydrodynamic power generation, electromagnetic pumps, heat pipes, and thermionic convertors
[DE84-009195] 15 p2411 N84-25475

BOOGAARD, J.
Visual obscuration by smoke screens: Results of the Oldebroek 2 trials, May 1981 Part 1: Theory, methods and photometric analysis
[IZF-1984-10] 19 p3105 N84-29730

BOOK, D. L.
Power-series solutions of the gasdynamic equations for Mach reflection of a planar shock by a wedge
[AD-A135953] 09 p1315 N84-18594
NRL (Naval Research Laboratory) plasma formulary, revised
[AD-A135787] 09 p1391 N84-19086
Airblast simulations using flux-corrected transport codes
[AD-A142820] 21 p3400 N84-31567

BOOK, W. J.
Recursive lagrangian dynamics of flexible manipulator arms via transformation matrices
[AD-A137345] 10 p1574 N84-20316

BOOKBINDER, J.
Bright, rapid, highly polarized radio spikes from the M dwarf AD Leo
[AD-A136205] 09 p1418 N84-19275

BOOKER, J. M.
Investigation of an empirical probability measure based test for multivariate normality
[DE84-012626] 22 p3649 N84-33135

BOOKER, P. G.
Data acquisition and processing in sea-level test beds 16 p2453 N84-25730

BOOKER, R. H.
Research support for plasma diagnostics on Elmo Bumpy Torus - development of a multichannel Hall-probe based diamagnetic diagnostic instrument and observation and modeling of EBT electron rings
[DE84-008810] 18 p2933 N84-28600

BOOM, R. W.
Magnetic suspension and balance system study
[NASA-CR-3802] 20 p3132 N84-29888

BOOMAN, R. A.
Velocity visualization in gaseous flows 11 p1610 N84-20543

BOONE, D. H.
Effect of surface doping on the oxidation of chromia former alloys
[DE84-013390] 22 p3667 N84-33247

BOONE, J. O.
Radar training facility initial validation
[AD-A133220] 07 p1049 N84-16797

BOONE, M. J. M.
Interruption of a dry-type transformer in no-load by a vacuum circuit-breaker
[EUT-83-E-141] 10 p1489 N84-19737

BOONE, R. L.
Relationships among precipitation, snowmelt, subsurface flow, groundwater recharge and streamflow generation in the Clear Creek watershed, eastern Sierra Nevada
[PB83-253344] 05 p0697 N84-14579

BOONSTRA, H.
Wind tunnel tests on a model of a semisubmersible platform and comparison of the results with full-scale data
[NLR-MP-82014-U] 06 p0780 N84-15113

BOOR, C. D.
Convergence of bivariate cardinal interpolation
[AD-A142894] 21 p3472 N84-32006

BOORSTYN, R.
Research in network management techniques for tactical data communications networks
[AD-A131357] 02 p0209 N84-11365
Research in net management techniques for tactical data networks
[AD-A131674] 03 p0361 N84-12352

BOORUJY, J. R.
Bending fatigue of a particulate SiC/Al 6061 metal matrix composite
[AD-A134108] 05 p0653 N84-14293

BOOS, F.
Feasibility study of a low cost Energy Performance Management System (EPMS)
[BMFT-FB-W-84-015] 21 p3328 N84-31116

BOOTH, R. L.
Development of a microcomputer-based engineering design optimization software package
[AD-A139123] 14 p2205 N84-24232

BOOTHROYD, G.
Economic application of assembly robots: Elements of sensor applications to programmable feeders
[PB84-193200] 21 p3415 N84-31656

BOOTHROYD, J. C.
Fluvial drainage systems: Margaritifer Sinus and Agyre (NC, NE) quadrangles, Mars 13 p2083 N84-23497

BOOTS, H. M. J.
Investigation of multiple scattering contributions to the depolarization of light scattered by carbon dioxide and xenon in the critical region. Part 3: Comparison between theory and experimental results
[VDW-PUBL-287] 19 p3105 N84-29731

BOOY, A.
APU in commercial airline operation 03 p0334 N84-12173

BOOYENS, H.
Surface photoluminescence and it application 06 p0815 N84-15304

BOOZE, C. F., JR.
The 1980 and 1981 accident experience of civil airmen with selected visual pathology
[AD-A134898] 08 p1101 N84-17158

BOOZER, G. A.
A hardware/software simulation for the video tracking system of the Kuiper Airborne Observatory telescope
[NASA-TM-85896] 15 p2424 N84-25562

BOPP, W. B.
DRAMIN: Transferring data from the Applicon graphic system to A DRAM input file user guide
[DE83-018235] 03 p0421 N84-12753

BOQUET, P.
Weldability of steels: Study of cracking and methods of examination
[BLL-RISLEY-TRANS-4519-(9091.9)] 22 p3550 N84-32475

BORCHERS, D.
Measuring and data evaluation systems at the wind test site Pellworm
[GKSS-84-E-12] 23 p3791 N84-34044

BORDEN, A. R.
Method and apparatus for making superconductive magnet coils
[DE84-014510] 22 p3590 N84-32737

BORDEN, C. S.
The value of residential photovoltaic systems: A comprehensive assessment
[NASA-CR-173205] 07 p1025 N84-16643
Stand-alone flat-plate photovoltaic power systems: System sizing and life-cycle costing methodology for Federal agencies
[NASA-CR-173903] 22 p3618 N84-32922

BORDEN, G. J.
Computer based landing signal officer carrier aircraft recovery model
[AD-A133507] 06 p0894 N84-15808

BORDEN, P. G.
Development of high-efficiency concentrator cell configuration
[DE84-008356] 14 p2173 N84-24012
Development of mechanically-stacked multijunction solar cell for concentrator applications
[DE84-008355] 15 p2363 N84-25177

BORDER, R. A.
Computerised plant control system 05 p0717 N84-14698

BORDLEY, T. E.
Digital signal processing 22 p3684 N84-33357

BORDONI, F.
An oscillating capacity electrometer for space applications
[IFSI-84-6] 18 p2807 N84-27823
Resonant parametric transducer
[IFSI-83-10] 18 p2835 N84-27995

BORE, C. L.
The influence of V/STOL on wing design and tailplane design 16 p2436 N84-25627
Ground based testing without wind tunnels 16 p2437 N84-25634
Notes on special flight aspects, such as STO, ski-jump and ODM 16 p2437 N84-25637
Vortex lifted stone ingestion: The influence of stone diameter
[BAE-KRS-N-GEN-276] 17 p2603 N84-26676
Further thoughts on shot peening (and other compression inducing surface treatments) for fatigue enhancement
[BAE-KRS-N-GEN-275] 17 p2622 N84-26779

BORELL, C.
Geometric bounds on the Ornstein-Uhlenbeck velocity process
[CTH-MATH-1983-17] 13 p2037 N84-23212

Hitting probabilities of killed Brownian motion: A study on geometric regularity
[CTH-MATH-1983-11] 14 p2219 N84-24314
Supremum convolutions and Greenian potentials in a special case
[CTH-MATH-1983-31] 17 p2759 N84-27522

BORELL, G. J.
Design and evaluation of a pulsating-flow wind tunnel
[PB84-116086] 09 p1260 N84-18223

BORELLA, H. M.
Resonance ionization spectroscopy measurement of the vapor pressure of several molecular species
[DE84-010656] 21 p3409 N84-31624

BORENSZTEIN, Y.
Research and development for investigations of metallic adsorptions on metal surfaces by optical techniques complemented by dc resistivity and auger spectroscopy
[AD-A131739] 03 p0361 N84-12351

BORG, R. J.
Metallurgical explanation of double magnetic transitions and allied phenomena in AuFe alloys
[DE84-002024] 05 p0657 N84-14317

BORGEFORS, G.
An improved version of the chamfer matching algorithm
[FOA-C-30344-E1] 10 p1572 N84-20303

BORGES, P. D. A.
Dynamic analysis of spacecraft trajectory and attitude in an orbital insertion
[INPE-2845-TDL/142] 02 p0185 N84-11203

BORGESON, W. T.
Tests of low-frequency geometric distortions in LANDSAT-4 images 20 p3211 N84-30397

BORGESPIRES, E. A. C.
Analysis of nonclassical friction laws for contact problems in elastostatics 02 p0230 N84-11511

BORGHESE, F.
The elements of the rotation matrices in terms of Rodriguez's parameters
[AD-A136550] 09 p1376 N84-18988
The optical spectra of aerosols
[AD-A135687] 09 p1377 N84-18993
The optical spectra of aerosols
[AD-A141571] 19 p3104 N84-29719

BORGHESI, M.
The debugging of real time multiprocessor systems: An integrated solution proposal
[CISE-2067] 06 p0899 N84-15837

BORGHETTI, J.
A Gerdien condenser system for measuring stratospheric charged particle densities
[AD-A143317] 22 p3623 N84-32958

BORGMAN, C. L.
The user's mental model of an information retrieval system: Effects on performance
21 p3516 N84-32275

BORIS, J. P.
Analysis of stability and symmetry implications for ICF
[DE84-000640] 04 p0540 N84-13556
Vortex shedding and laser ablation
[DE84-000301] 04 p0541 N84-13565
Time dependent, compressible simulations of shear flows: Tests of outflow boundary conditions
[AD-A136410] 09 p1314 N84-18587
Power-series solutions of the gasdynamic equations for Mach reflection of a planar shock by a wedge
[AD-A135953] 09 p1315 N84-18594
Theory of beam channel hydrodynamics
[AD-A139595] 14 p2229 N84-24365
Numerical simulations of the structure and propagation of self-sustained detonations
[AD-A142486] 20 p3184 N84-30230
Theory of vorticity generation by shock wave and flame interactions
[AD-A144432] 24 p3880 N84-34582

BORISENKOV, Y. P.
Estimation of parameters of spray clouds
[BLL-TRANS-1571-(9022.552)]
08 p1190 N84-17752
Modeling kinetics of aerodisperse phase in ocean surface layer 18 p2859 N84-28153

BORISOV, E. V.
Noise immunity of optical lines with imprecise levels of signal and noise 17 p2634 N84-26852

BORISOVA, T. I.
The electrochemical behaviour of titanium platinum alloys in anodic oxidation processes. 1: Kinetics and selectivity of the process of the combined formation of O2, H2S2O8 and O3 on the titanium-platinum alloy
[BLL-OA-TRANS-3093-(6196.3)]
08 p1128 N84-17336

BORISOVA, Y. D.
Quantitative assessment of role of spatial frequencies of images in visual recognition of numbers
21 p3455 N84-31928

BORKOWSKI, M. S.
An analytical study of a locally cooled high Reynolds number simulation technique
[AD-A141062] 19 p3023 N84-29170

BORLAND, C. J.
Aeroelastic tailoring of high-aspect-ratio composite wings in the transonic regime 02 p0170 N84-11119
Numerical solution of three-dimensional unsteady transonic flow over wings including inviscid/viscous interactions
[NASA-CR-166561] 11 p1600 N84-20478
Further development of XTRAN3S computer program
[NASA-CR-172335] 14 p2101 N84-23608

BORLAND, R. G.
Adaptation to irregularity of rest and activity
11 p1697 N84-21070
Workload of personnel engaged in air defence
11 p1699 N84-21079

BORLAND, T.
Development, test and delivery of solid propellant generators for inflation of PFD's
[AD-A130477] 21 p3460 N84-31946

BORMANN, H.
Cycle of waste heat energy transformation
[BMFT-FB-T-83-173] 07 p1026 N84-16652

BORNE, K. D.
The structure and evolution of interacting binary galaxies 05 p0763 N84-15004

BORNSTEIN, J. G.
Photovoltaic-cell-reseach priorities
[DE84-000066] 04 p0559 N84-13683

BORNTRAEGER, G.
Super 8 film scanning set by using a CCD-line
[BMFT-FB-T-83-249] 10 p1483 N84-19697

BORODAI, V. V.
Interaction potentials in substitutional solid solutions
[BLL-M-35132-(5828.4)] 01 p0152 N84-10998

BORODIN, O.
Upgraded Yakutsk airport opens to IL-62 service
01 p0001 N84-10006

BORODIN, V. A.
Construction of a model of the Venus surface and its use in processing radar observations
[NASA-TM-77298] 09 p1416 N84-19264

BORONKIN, N. F.
Processing the results of fatigue testing of structural materials damaged by corrosion
24 p3873 N84-34541

BOROUGHS, R. R.
Determination of elevator and rudder hinge forces on the Learjet model 55 aircraft 06 p0860 N84-15604
Computer aided modeling and post processing with NASTRAN analysis 22 p3609 N84-32869

BOROVIKOV, A.
Analytical determination of resistance of aluminium alloys to deformation
[BLL-M-35476-(5828.4)] 12 p1796 N84-21714

BOROVIKOV, N. F.
Structure of polycrystalline boron nitride as determined by electron microscopic thin sections
[CSIR-TRANS-1738] 22 p3558 N84-32533

BOROVIKOV, V. S.
Integrated evaluation of tensile strengths and ductility limits
[BLL-M-35452-(5828.4)] 08 p1169 N84-17613

BOROVOY, A. G.
Small-angle method in study of single and multiple scattering 20 p3225 N84-30492

BOROVOY, V. Y.
Visualization of the 3-dimensional flow around a model with the aid of a laser knife
[NASA-TM-77497] 23 p3746 N84-33748

BOROWSKI, S. K.
Preionization and start-up in the ISX-B Tokamak using electron cyclotron heating at 28 GHz
[DE84-002261] 06 p0920 N84-15984
Inductive current startup in large Tokamaks with expanding minor radius and RF assist
[DE84-006683] 12 p1911 N84-22450

BORRI, F. R.
Accelerated testing
[DRIC-T-7073] 15 p2346 N84-25076

BORRI, M.
The role of aeroelasticity in the preliminary design of helicopter rotors 02 p0172 N84-11130

BORRIELLO, G.
Thermal control of tethered satellite in a very low altitude aerodynamic mission 10 p1446 N84-19444

BORSE, D.
Grinding with Borazon: Progress and rewards
[CSIR-TRANS-1718] 21 p3375 N84-31420
Internal grinding of high-speed steels: Shorter processing times with boron nitride grinding tools
[CSIR-TRANS-1719] 21 p3376 N84-31421

BORSHCH, A. A.
Optical bistability and hysteresis under phase conjugation in CdS crystal 14 p2240 N84-24450

BORSHCIYEVSKIY, V. M.
Controller for the electro-optical shutter of a dual pulse laser 13 p1968 N84-22776

BORSIG, E.
Stabilized unsaturated polyesters
[NASA-CASE-NPO-16103-1] 22 p3558 N84-32530

BORSON, E. N.
Introduction to simulation of upper atmosphere oxygen satellite exposed to atomic oxygen in low Earth orbit
24 p3863 N84-34479

BORTNER, M. H.
Copper vapor laser scale demonstration
[AD-A133327] 06 p0850 N84-15543

BORTNOVSKIY, V. N.
The effect of smoking on the non-specific resistance of the organism of seamen at sea
08 p1199 N84-17816

BORTZ, A. B.
Workshop on Magnetic Information Technology (MINT)
[PB84-125210] 09 p1319 N84-18619

BORYS, R. D.
The effects of long-range transport of air pollutants on artic cloud-active aerosol 05 p0702 N84-14604

BORYSOW, J.
Photoelastic analysis of direct shear tests for granular materials
[BLL-M-28752-(5828.4)] 09 p1328 N84-18671

BORZOV, G. G.
Calculating the magnetic field from a saddle-shaped coil without a ferromagnetic circuit
[AD-A134776] 08 p1226 N84-18011
Problems in the development of high-power turbogenerators with superconducting field windings
[AD-A136525] 09 p1325 N84-18657

BORZYAK, Y. V.
Control computer and automation subsystem equipment in Delfin Facility 20 p3289 N84-30880

BOS, A. S.
Agglomeration in suspension
[WTHD-160] 07 p0973 N84-16305

BOSACCHI, B.
Resonant Frustrated Total Reflection (FTR) approach to optical bistability in semiconductors
14 p2234 N84-24405

BOSAMYKIN, V. S.
Linear inductive accelerator
[AD-A135547] 08 p1229 N84-18029
Linear induction accelerator
[AD-A139458] 14 p2222 N84-24336

BOSCHER, D.
Manufacture cables with low losses
11 p1725 N84-21256

BOSCHETTI, C.
Photoconductor fabrication for operation in the thermal infrared
[INPE-2835-PRE/384] 02 p0298 N84-11952
Manufacture and characterization of Pb(1-x)Sn(x)Te photoconductors
[INPE-3045-TDL/157] 22 p3662 N84-33212

BOSCO, S. R.
Research into the thermal decomposition of selected energetic material candidates (Project order ATL-2-094)
[AD-A138730] 13 p1966 N84-22770
The reaction NH2 + PH3 yields NH3 + PH2: Absolute rate constant measurement and implication for NH3 and PH3 photochemistry in the atmosphere of Jupiter
[NASA-TM-85063] 13 p2072 N84-23430

BOSE, N. K.
Approximation methods in multidimensional filter design and related problems encountered in multidimensional system design
[AD-A131316] 02 p0280 N84-11836

BOSIN, D.
Running stability of large rotor bearing foundation models
[ILR-MITT-124/1983] 12 p1823 N84-21887

BOSLOUGH, M.
Theoretical and experimental studies of shock-compressed benzene and polybutene
[DE83-015884] 03 p0430 N84-12816

BOSLOUGH, M. B.
Impact cratering and spall failure at gabbro
[NASA-CR-174618] 04 p0562 N84-13704
Shock wave properties of anorthosite and gabbro
[NASA-CR-173309] 08 p1155 N84-17521
Shock temperatures in anorthite glass
[NASA-CR-173364] 09 p1287 N84-18401
A sensitive optical pyrometer for shock-temperature measurements
[NASA-CR-173602] 16 p2495 N84-26011

BOSMAN, G.
Study of 1/f noise in solids
[AD-A133856] 05 p0753 N84-14939
BOSQUE, M. A.
Fuel spray diagnostics 11 p1608 N84-20527
Detailed fuel spray analysis techniques 15 p2291 N84-24747
BOSSANYI, K.
Initial steps in utilization of robots 24 p3944 N84-34971
BOSSI, R. H.
Using an X-ray-sensitive vidicon and remote-control stage mechanism to obtain critical radiographic alignment of small explosive devices
[DE83-012646] 03 p0358 N84-12326
Penetrant and magnetic-particle inspection for material integrity
[DE83-017830] 04 p0546 N84-13600
BOST, D. E.
Subject categories with scope definitions and limitations
[DE83-008754] 02 p0302 N84-11984
BOSTIAN, C. W.
Ice depolarization on low-angle 2 GHz satellite downlinks 15 p2323 N84-24946
BOSTIC, S. W.
IPAD 2: Advances in Distributed Data Bsse Management for CAD/CAM
[NASA-CP-2301] 12 p1689 N84-22299
Solution of a tridiagonal system of equations on the finite element machine
[NASA-TM-85710] 19 p3080 N84-29543
BOSTICK, W.
Beam propagation experimental study
[AD-A133310] 06 p0915 N84-15946
BOSTROEM, R.
Observations of stimulated electromagnetic emissions during ionospheric heating experiments 05 p0635 N84-14179
First observations of 140 MHz plasma line backscatter during healthy experiments at Tromsoe
[UIO-SR-84-02] 20 p3243 N84-30588
BOSTROM, D. E.
Slotted waveguide array antennas for spaceborne SAR applications 07 p0967 N84-16397
BOSWORTH, H.
Mechanical properties of multi-year sea ice. Phase 1: Test results
[AD-A144132] 24 p3935 N84-34907
Mechanical properties of multi-year sea ice. Testing techniques
[AD-A144431] 24 p3935 N84-34908
BOSWORTH, J. H.
Integrated systems of manufacture (robotics) technology working group report (IDA/OSD Rand M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study)
[AD-A140304] 16 p2477 N84-25878
BOTAR, L.
Some aspects of mathematical and chemical modeling of complex chemical processes
[NASA-TM-77055] 07 p0969 N84-16279
BOTELHO, D. L. R.
An empirical model for vortex-induced vibrations
[PB84-161157] 16 p2493 N84-25998
BOTHA, D.
Integrated CNI (Communication Navigation and Identification) avionics and future standardization
[AD-P003580] 21 p3339 N84-31185
BOTHA, L. R.
Viscoelastic analysis of adhesive stresses in bonded joints
[NASA-CR-173243] 09 p1288 N84-18411
BOTHE, H.
In-flight accuracy and coverage tests of ESM- and ECM-systems 24 p3849 N84-34412
BOTHMANN, K.
Laser range finding technology for space to space applications. Volume 1: Laser diode range finder functional model
[MBB-UR-608-83-O-VOL-1] 09 p1324 N84-18648
BOTHNER, M. H.
Georges Bank monitoring program: Analysis of trace metals in bottom sediments during the second year of monitoring
[PB84-169465] 16 p2534 N84-26269
BOTHUN, G. D.
Combined ultraviolet studies of astronomical sources
[NASA-CR-175234] 08 p1242 N84-18121
BOTKIN, D.
Activities of the Remote Sensing Information Sciences Research Group
[E84-10177] 21 p3427 N84-31739
BOTKIN, D. B.
Habitability of the Earth 21 p3427 N84-31740
BOTT, J. F.
Deactivation of higher vibrational levels of HF by F atoms
[AD-A140853] 17 p2673 N84-27034
BOTT, L. C. L.
Study of variability in extragalactic radio sources at 22 GHz and 44 GHz
[INPE-2913-TDL/149] 13 p2092 N84-23549
BOTTA, E. F. F.
A local-relaxation method for solving convection-diffusion equations
[NLR-MP-82030-U] 06 p0903 N84-15862
BOTTCHER, C.
Indirect processes in electron-ion scattering
[DE84-002381] 05 p0745 N84-14897
BOTTERI, B. P.
Decision recommendation board (DRB) report. Transition of shale JP-4 to the operational validation phase
[AD-A144504] 24 p3890 N84-34633
BOTTONI, M.
The BLOW-3A: A theoretical model to describe transient two phase flow conditions in Liquid Metal Fast Breeder Reactor (LMFBR) coolant channels 06 p0843 N84-15497
Theoretical simulation of thermohydraulic behavior of sodium cooled subassemblies in steady state and transient conditions 06 p0843 N84-15498
BOUBEL, R. W.
Effect of low-proof fuel alcohol on crankcase oil dilution in an Otto-cycle engine
[DE83-016425] 01 p0091 N84-10594
Laboratory evaluation of novel particulate control concepts for jet engine test cells
[AD-A137641] 11 p1620 N84-20603
BOUCHARD, M. P.
Effects of surface flaws on impact resistance of uncoated polycarbonate
[AD-A141364] 19 p2998 N84-28998
BOUCHEZ, J. P.
Integration of mathematical models: Experience of first Spacelab mission 10 p1444 N84-19431
Design and manufacturing of a heat rejection system for advanced thermal control 10 p1444 N84-19434
OTS 2: Five years of thermal testing on a satellite in a geostationary orbit 10 p1446 N84-19446
BOUCHIER, J. L. A.
Selection of elements in process schemes on Cathode Ray Tube (CRT). A comparative study between four types of trackballs
[IZF-1984-4] 20 p3182 N84-30213
BOUDJOUK, P.
New approaches to the synthesis of novel organosilanes
[AD-A141803] 19 p2985 N84-28913
BOUGEAULT, P.
Higher-order turbulence models including a cloud layer, appendix F 18 p2884 N84-28301
BOUGERET, J. L.
Radio evidence for interplanetary streamers in the range 10-170 solar radii 03 p0471 N84-13103
Fundamental and harmonic emission in interplanetary type 2 radio bursts
[NASA-TM-86099] 20 p3320 N84-31079
BOUGHNER, R. E.
Stratospheric NO and NO2 profiles at sunset from analysis of high-resolution balloon-borne infrared solar absorption spectra obtained at 33 deg N and calculations with a time-dependent photochemical model
[NASA-TM-86285] 20 p3240 N84-30566
BOUILLIEZ, O.
Control to switching induced surges using SF6 devices
[CAHIERS-TECHNIQUES-125] 15 p2331 N84-24995
BOULANGER, L.
Effect of dose rate on the microstructure of CW 316 SS
[DE84-780403] 24 p3885 N84-34614
BOULDIN, D. W.
Current assessment of the potential of dielectric gas mixtures for industrial applications
[DE84-011658] 22 p3588 N84-32724
BOULIN, J. J.
Performance monitoring highlights of BERD programs 16 p2516 N84-26146
BOULOS, F. K.
Geophysical investigations of a geothermal anomaly at Wadi Ghadir, eastern Egypt
[NASA-CR-173527] 14 p2175 N84-24030
BOULOS, M. I.
Dynamics of heat, mass and momentum transfer in an inductively coupled plasma
[DE84-013499] 22 p3660 N84-33200
Plasma-particle interaction effects in induction plasma modelling under dense loading conditions
[DE84-013388] 22 p3660 N84-33203
BOULTER, J. F.
Spatial filtering for enhancing point targets in images from a space-based mosaic IR detector
[AD-A132248] 04 p0521 N84-13425
BOUMAN, J. M.
The ISPM cosmic-ray and solar-particle investigation 09 p1262 N84-18236
BOUNDS, J. A.
Sensitive collinear laser spectroscopy on fast atom and ion beams
[DE84-003403] 10 p1456 N84-19512
BOURCIER, H.
Image dissector tube star trackers performance: Advantages and drawbacks as compared to those of charge transfer device star trackers 15 p2266 N84-24606
BOURCIER, R. J.
Hydrogen embrittlement of titanium sheet under multiaxial deformation paths
[AD-A133846] 05 p0654 N84-14298
BOURDET, M.
An ER-2 aircraft airborne lidar as part of the development program of a spaceborne system: A potential NASA/CNES cooperative project 24 p3907 N84-34744
BOURGEADE, A.
Analysis of three-dimensional transonic compressors
[NASA-CR-166580] 22 p3531 N84-32356
BOURGEON, M.
Dissecting composite parts: A valuable aid in concept design and nondestructive control 01 p0033 N84-10207
BOURGOIS, R.
Evaluation of the gravity relevance on bone stresses by in vivo measurements 23 p3808 N84-34148
BOURJOT, P.
Radial thermomechanical behaviour
[BLL-OA-TRANS-2639-(6198.3)] 04 p0533 N84-13503
BOURLES, H.
Robustness qualification and improvement of multivariable regulators, with application to airplane control
[ONERA-NT-1983-2] 16 p2451 N84-25720
BOURNE, C. A.
Approach and landing characteristics of the space shuttle orbiter Learned, Pt. 1 p 637-651 01 p0023 N84-10143
BOURNE, F. R.
The dynamic response characteristics of a viscoelastic beam on periodically-spaced, viscoelastic supports 06 p0862 N84-15619
BOURNICON, C.
Industrial forging applications of shaping simulation using modeling clay
[CETIM-1.3K.36.2] 21 p3376 N84-31424
BOURQUIN, A. W.
Degradation of jet fuel hydrocarbons by aquatic microbial communities
[AD-A139791] 15 p2304 N84-24822
BOURRIEAU, J.
Optical fibers and components experiment (A0138-7) 15 p2278 N84-24683
BOURSE
Application of measurements of the propagation velocity of ultrasonic Rayleigh waves to surface inspection of materials
[CETIM-15-H-417] 21 p3416 N84-31662
BOUSMAN, W. G.
Design considerations for bearingless rotor hubs
[AD-A131660] 03 p0331 N84-12162
BOUTARD, J.
Irradiation creep of solution annealed and coldworked 316 stainless steel
[DE84-780404] 24 p3885 N84-34613
BOUTELIER, C.
Thermal constraints in a helicopter during long duration flights under extreme climatic conditions 11 p1698 N84-21078
BOUTEMY, J. C.
Optical data links for the STAR mission 24 p3905 N84-34730
BOUTIN, D.
Aeroelasticity and optimization at the design stage 02 p0172 N84-11131
BOUVARD, A.
Termination of cylindrical grooved optical cables 11 p1720 N84-21220
BOUWER, G.
A piloted simulator investigation of decoupling helicopters by using a model following control system
[AD-A139976] 15 p2264 N84-24598
BOUZINC, J. P.
Characterization of high powered laser diodes 24 p3904 N84-34728

BOVENKAMP, J. W.
Fluoroalkyl siloxanes as liquid-repellent fabric finishes. Part 3: The durability of the copolymers and comparisons with commercially available finishes
[AD-A136662] 10 p1467 N84-19579
BOVENKERK, R. L.
Solid lubrication design methodology
[NASA-CR-174690] 22 p3677 N84-33309
BOVING, H.
Lubrication of mountings subject to contact corrosion
09 p1296 N84-18469
BOVINO, L. J.
Multiple gap optically activated switch
[AD-D011014] 19 p3104 N84-29723
BOWDEN, C. M.
Mirrorless intrinsic optical bistability due to the local field correction in the Maxwell-Bloch formulation
14 p2233 N84-24397
Optical bistability in semiconductors
14 p2237 N84-24428
BOWDEN, J. N.
Investigation of sources, properties and preparation of distillate test fuels
[NASA-CR-168227] 04 p0508 N84-13332
BOWDLE, D. A.
Atmospheric backscatter research
24 p3924 N84-34637
BOWELL, E.
The occultation of AG+29 deg 398 by 98 Minerva
[NASA-CR-173827] 20 p3319 N84-31066
BOWEN, D. K.
Topographic EXAFS
[AD-A137116] 12 p1915 N84-22475
BOWEN, F.
Encapsulated multifunction corrosion inhibitive primer
[AD-A144311] 24 p3889 N84-34626
BOWEN, J. B.
Reliability model demonstration study, volume 1
[AD-A138196] 12 p1881 N84-22262
Reliability model demonstration study, volume 2
[AD-A138197] 12 p1881 N84-22263
BOWEN, J. T.
Current and future graphics requirements for LaRC and proposed future graphics system
[NASA-TM-85726] 18 p2917 N84-28495
BOWEN, K. A.
Logic programming and knowledge base maintenance
[AD-A137062] 10 p1564 N84-20245
BOWEN, R. W.
Analysis of the world distribution of metal-rich subsea manganese nodules
[USGS-CIRC-886] 03 p0395 N84-12577
BOWEN, T. P.
Software quality measurement for distributed systems, volume 1
[AD-A137955] 11 p1707 N84-21128
Software quality measurement for distributed systems. Volume 2: Guidebook for software quality measurement
[AD-A137956] 11 p1707 N84-21129
Software quality measurement for distributed systems. Volume 3: Distributed computing systems. Impact on software quality
[AD-A137957] 11 p1708 N84-21130
Software interoperability and reusability, volume 1
[AD-A138477] 12 p1883 N84-22276
Software interoperability and reusability. Volume 2: Guidebook for software quality measurement
[AD-A138478] 12 p1884 N84-22277
BOWEN, W. M.
Corrosion of carbon steel in oxidizing caustic solutions
[DE84-000209] 15 p2298 N84-24792
BOWERS, C. A.
Release mechanism for a cylindrical object recovery device
[AD-D011183] 24 p3909 N84-34762
Cylindrical object recovery device
[AD-D011184] 24 p3909 N84-34763
BOWERS, C. J.
Evaluation of the comprehension of non-continuous, sped-up vocoded speech: A strategy for coping with fading HF (High Frequency) channels
[AD-A138650] 13 p1982 N84-22871
BOWERS, D. G.
A model of inter-organizational influences on organizational processes
[AD-A142450] 20 p3313 N84-31037
BOWERS, J.
Computer system design environment software development plan
[AD-A131651] 03 p0420 N84-12747
BOWERS, J. C.
Basic EMC technology advancement for c3 systems. Volume 2A: Macromodels of op amps for CADA applications
[AD-A133661] 05 p0675 N84-14435
BOWERS, W. D., JR.
Insulin and cortisol improve heat tolerance in isolated perfused rat liver
[AD-A133382] 07 p1042 N84-16758
BOWHILL, S. A.
Observations of the upper troposphere and lower stratosphere using the urbana coherent-scatter radar
[NASA-CR-174594] 03 p0407 N84-12664
Middle Atmosphere Program. Handbook for MAP, volume 9
[NASA-CR-173439] 17 p2682 N84-27076
Mesospheric scatter and its microstructure
17 p2684 N84-27090
Pulse stuttering as a remedy for aliased ground backscatter 17 p2685 N84-27098
Nighttime mesospheric returns associated with a large scale flare event 17 p2686 N84-27103
A comment on some drawbacks of monostatic radars
17 p2686 N84-27106
Effects of geophysical noise on the accuracy of wind determination 17 p2687 N84-27113
Design considerations for MST radar antennas
17 p2693 N84-27153
Real-time MST radar signal processing using a microcomputer running under FORTH
17 p2695 N84-27165
Review of correlation techniques
17 p2695 N84-27166
BOWIN, C. O.
MAGSAT correlations with geoid anomalies
[E84-10174] 21 p3427 N84-31736
MAGSAT correlations with geoid anomalies
[E84-10190] 22 p3613 N84-32894
BOWLES, K.
Seeding the Ada (trademark) software components industry
[AD-P003432] 20 p3272 N84-30764
BOWLES, R.
FAA (Federal Aviation Administration) aviation forecasts -Fiscal Years 1984-1995
[AD-A138759] 13 p1929 N84-22549
BOWLES, R. L.
Development of a VOR/DME model for an advanced concepts simulator
[NASA-TM-85717] 11 p1604 N84-20505
BOWLES, W. M.
An approach to attitude control maneuvers which helps maintain orbit inclination 15 p2268 N84-24618
BOWLING, J. W.
Fates and biological effects of polycyclic aromatic hydrocarbons in aquatic systems
[PB83-250191] 04 p0561 N84-13698
BOWLING, W. C.
Surface compatibility studies of potassium perchlorate reaction with pyrotechnic fuels
[DE84-002829] 08 p1140 N84-17412
Potassium perchlorate reaction with pyrotechnic fuels
[DE84-002840] 08 p1140 N84-17413
BOWMAN, C. T.
Advanced diagnostics and instrumentation for chemically reactive flow systems
[AD-A131814] 03 p0346 N84-12251
Technique for the rapid generation of OH radicals behind shock waves and its application to the study of combustion kinetics
[DE84-003183] 08 p1126 N84-17317
BOWMAN, D. E.
Research, development and demonstration of lead-acid batteries for electric vehicle propulsion
[DE84-000468] 04 p0527 N84-13464
BOWMAN, L. M.
VIBRA: An interactive computer program for steady-state vibration response analysis of linear damped structures
[NASA-TM-85789] 18 p2852 N84-28112
BOWMAN, R. C., JR.
Diffusion properties and phase transitions of the metalic glass a-Zr2-PdH-x
[DE83-016626] 05 p0660 N84-14341
Quantitative determination of hydrogen by pulsed nuclear magnetic resonance spectroscopy
[DE84-002831] 06 p0802 N84-15227
BOWMAN, R. E.
Effect of fabrication techniques on consolidated charge burning 13 p1948 N84-22668
BOWSER, D.
Adaptive noise cancellation in neuromagnetic measurement systems
[AD-A132547] 05 p0684 N84-14494
BOWYER, J. M.
The kinematic Stirling engine as an energy conversion subsystem for paraboloidal dish solar thermal plants
[NASA-CR-173724] 18 p2870 N84-28218
BOWYER, S.
A study of the atmosphere and ionosphere using satellite observations of 300-1400 Ang airglow
[NASA-CR-173146] 07 p1028 N84-16663
BOX, G. E. P.
Constrained nonlinear least squares
[AD-A130502] 01 p0132 N84-10862
Some considerations in estimating data transformations
[AD-A137960] 12 p1893 N84-22329
Gwilym Jenkins: Experimental design and time series
[AD-A141506] 19 p3084 N84-29575
BOXMA, Y.
A generalized class of certainty and information measures
[NLR-MP-82038-U] 15 p2397 N84-25379
BOXVALL, A.
DARK: A computer based system for simulating the potential hazards from releases of pressurized gases
[FOA-C-40163-C2] 10 p1565 N84-20255
BOXWELL, D. A.
Model helicopter rotor high-speed impulsive noise: Measured acoustics and blade pressures
[NASA-TM-85850] 01 p0003 N84-10020
Experiment versus theory 19 p3098 N84-29679
BOYARKINA, I. V.
Neuronal-vascular relations in lateral geniculate body and superior colliculi of cats after exposure to accelerations 07 p1046 N84-16783
BOYCE, J. M.
Cratering history of the Saturnian satellites
13 p2079 N84-23473
BOYCHENKO, V. L.
Picosecond parametric optical oscillator with amplification of radiation from tunable semiconductor laser 21 p3487 N84-32097
BOYD, D.
Signal-processing capabilities of a computerized ultrasonic scanning bridge
[DE83-013708] 01 p0085 N84-10553
BOYD, E. A.
Ground effect on a rotor wake
[ISBN-0-902937-93-6] 11 p1601 N84-20484
BOYD, G. A. C.
The effect of cooling rate from the gamma-phase on the strain-rate sensitivity of a uranium 2w/o molybdenum alloy
[QUEL-1492/83] 15 p2296 N84-24779
BOYD, I. H.
An analysis of cloud cover at Johannesburg, Cape Town and Durban, in South Africa
[CSIR-NBRI-SR-BOU-60] 04 p0566 N84-13734
BOYD, J. K.
Comparisons of hydrodynamic beam models with kinetic treatments
[DE84-003242] 08 p1233 N84-18057
BOYD, J. T.
Integration of detectors with optical waveguide structures
[AD-A133855] 05 p0674 N84-14430
BOYD, R. D.
Automated data reduction for optical interferometric data
[DE83-012075] 03 p0377 N84-12457
BOYD, R. W.
Intrinsic instabilities in homogeneously broadened lasers 14 p2235 N84-24411
BOYDEN, R. P.
Aerodynamic force measurements with a strain-gage balance in a cryogenic wind tunnel
[NASA-TP-2251] 04 p0480 N84-13162
BOYER, D. W.
Mach number and density effects in the mixing of supersonic jets 13 p1942 N84-22628
BOYER, J. H.
Nitrolysis of the CN single bond and related chemistry of nitro and nitroso groups
[AD-A141825] 19 p2989 N84-28937
BOYER, J. P.
Improved acrylic systems for rapid runway repair
[AD-A130389] 01 p0016 N84-10103
BOYER, K.
High-efficiency free-electron-laser experiments
[DE83-015218] 02 p0227 N84-11487
BOYER, K. G.
Pion elastic and inelastic scattering from (40) (42) (44) (48)Ca and (54)Fe
[DE84-009080] 20 p3296 N84-30927
BOYER, R. R.
Flight service evaluation of two aluminum-brazed titanium spoilers
[NASA-CR-172371] 21 p3364 N84-31343
BOYER, R. S.
A mechanical proof of the turing completeness of pure LISP
[AD-A130625] 01 p0121 N84-10785

Proof-checking, theorem proving and program verification
[AD-A130638] 01 p0123 N84-10799
A fully automatic proof of an ordered tree insertion function
[AD-A130720] 01 p0133 N84-10868
The use of a formal simulator to verify a simple real time control program
[AD-A131732] 03 p0420 N84-12745
Investigation, development, and evaluation of performance proving for fault-tolerant computers
[NASA-CR-166008] 15 p2385 N84-25307
A formal semantics for the SRI hierarchical program design methodology 15 p2387 N84-25318
On why it is impossible to prove that the BDX90 dispatcher implements a time-sharing system 15 p2387 N84-25319
Defining of the BDX930 assembly language 15 p2387 N84-25320
The use of a formal simulator to verify a simple real time control program 15 p2388 N84-25322
Rehosting the theorem prover
[AD-A144356] 24 p3946 N84-34987
Program verification
[AD-A144360] 24 p3946 N84-34988
A computational logic with quantifiers
[AD-A144335] 24 p3951 N84-35016

BOYER, W. B.
Flexible automated waveform recorder data acquisition program
[DE84-005553] 11 p1709 N84-21141

BOYKO, M. I.
Evaluation of skeletal muscle tone by recording lateral rigidity 02 p0262 N84-11717

BOYLAN, M. G.
The process of technological innovation: Reviewing the literature 16 p2566 N84-26466

BOYLE, A. R.
Review and synthesis of problems and directions for large scale geographic information system development
[NASA-CR-166563] 10 p1525 N84-19988

BOYLE, P. J.
Synoptic classification and horizontal homogeneity of the refractive index structure function parameter in the surface layer
[AD-A140925] 18 p2879 N84-28280

BOYLE, R. J.
Comparison between measured turbine stage performance and the predicted performance using quasi-3D flow and boundary layer analyses
[NASA-TM-83640] 13 p1932 N84-22564
Heat transfer in serpentine passages with turbulence promoters
[NASA-TM-83614] 13 p1989 N84-22911
Analytical and experimental investigation of stator endwall countouring in a small axial-flow turbine
[NASA-TP-2309] 22 p3536 N84-32388

BOYLE, W. C.
Development of standard procedures for evaluating oxygen transfer devices
[PB84-147438] 12 p1846 N84-22032

BOYLE, W. G., JR.
Software for computer controlled X-ray photoelectron and Auger Spectroscopy
[DE84-003912] 07 p1056 N84-16837

BOYLES, J. M.
Depositional history and sedimentology of upper cretaceous mancos shale and lower mesaverde group. Northwestern Colorado: Migrating shelfbar and wave-dominated shoreline deposits 23 p3796 N84-34068

BOYLESS, J. A.
Management information systems: A need for human factors
[AD-P003313] 18 p2909 N84-28452

BOYNOVSKIY, A. S.
Mixed boundary-value problems pertaining to profile of supersonic nozzles and channels 17 p2645 N84-26919

BOYNTON, J. G.
The creation of a central database on a microcomputer network
[AD-A143875] 23 p3635 N84-34326

BOYSAN, F.
Problem independent numerical simulation of two-phase flow in combustors 15 p2294 N84-24768

BOZEK, J.
The NASA welding assessment program 19 p3048 N84-29339

BOZEK, R. E.
ECM (Electronic Counter Measure) signal discrimination and identification techniques
[AD-A133427] 06 p0624 N84-15372

BOZEMAN, R.
On the conversion of LINPACK to Ada
[AD-P002941] 14 p2197 N84-24181

BOZEMAN, S. T.
Numerical solutions of non-uniquely solvable integral equations using finite rank modifications
[AD-A142149] 19 p3089 N84-29610

BOZOKI, E. S.
Problem of magnet ramping
[DE83-014054] 03 p0368 N84-12399
High-level control programs at NSLS
[DE83-010935] 03 p0421 N84-12754

BOZSO, F.
Electron spectroscopy study of SiC
[AD-A134352] 07 p1080 N84-17023

BOZYAN, E. P.
Microdensitometer errors: Their effect on photometric data reduction 18 p2839 N84-28024

BOZZO, C.
Overcoming unobservability in 3-axis stabilization of satellites 15 p2267 N84-24610

BRAASCH, R. H.
Status of the vertical-axis wind-trubine program, 1983
[DE83-013098] 02 p0229 N84-11504

BRABSTON, W. N.
Bomb damage repair: Precast slab design
[AD-A141687] 19 p2970 N84-28819

BRABY, L. A.
Develop real-time dosimetry concepts and instrumentation for long-term missions
[NASA-CR-171809] 22 p3599 N84-32791

BRABY, R.
The design and production of a procedure training aid using the procedure learning format and the computer automated page layout (PLA) routine
[AD-A139988] 15 p2383 N84-25292

BRACALENTE, E. M.
Analysis of normalized radar cross section (sigma-O) signature of Amazon rain forest using SEASAT scatterometer data
[E84-10168] 19 p3039 N84-29278

BRACCO, F. V.
High temperature catalytically assisted combustion
[AD-A133864] 05 p0648 N84-14259

BRACE, L. H.
Impact ionization effects on Pioneer Venus Orbiter 08 p1118 N84-17270

BRACEY, D. R.
Geophysics and tectonic development of the Caroline Basin
[AD-A131314] 02 p0258 N84-11686

BRACHO, R.
POPEYE: A gray-level vision system for robotics applications
[AD-A133298] 06 p0893 N84-15804

BRACKBILL, J. U.
Variational method for adaptive grid generation
[DE83-017312] 04 p0583 N84-13850

BRACKEN, R. E.
Principal facts for gravity stations in the Nevada portion of the Kingman 1 degree by 2 degree quadrangle
[PB84-103084] 08 p1189 N84-17749
Aeromagnetic map of Yucca Mountain and surrounding regions, southwest Nevada
[DE84-003920] 10 p1526 N84-19995

BRACKETT, R. L.
Pulse echo ultrasonic techniques for underwater inspection of steel waterfront structures
[AD-A133701] 05 p0689 N84-14527

BRACKNELL, D. R.
DEF STAN 00-18: A family of compatible digital interface standards 06 p0771 N84-15049

BRACON, G.
Practical impact of an integrated workbench on the quality assurance of embedded software 05 p0723 N84-14741
Certifying onboard software: A total progressive approach 15 p2269 N84-24625

BRADACH, I.
Television transmitting antenna of decimeter band system based on tubes 720 and 1020 mm in diameter 21 p3377 N84-31431

BRADBURY, J. N.
Proceedings of the 16th LAMPF Users-Group Meeting
[DE83-013215] 03 p0382 N84-12488

BRADEN, J. A.
Experimental study of the separating confluent boundary-layer. Volume 2: Experimental data
[NASA-CR-166018] 11 p1600 N84-20481

BRADFORD, W. J.
Experimental validation of a millimeter wave radar technique to remotely sense atmospheric pressure at the Earth's surface 23 p3775 N84-33935

BRADHORST, H. W., JR.
Advanced photovoltaic experiment (S0014) 15 p2274 N84-24657

BRADLEY, A.
Experimental studies relating environmental lighting and flicker to visual fatigue in VDT operators
[DE83-016316] 03 p0419 N84-12738

BRADLEY, D.
Speech communication 22 p3684 N84-33358

BRADLEY, D. M.
Centrifugal scaling laws for ground launch cruise missile shelter
[AD-A141572] 19 p2969 N84-28818

BRADLEY, E.
Technology and benefits of aircraft counter rotation propellers
[NASA-CR-168258] 04 p0485 N84-13186

BRADLEY, E. R.
Dislocation/obstacle interactions during low-dose irradiation creep of nickel
[DE84-001416] 04 p0504 N84-13303
Radiation hardening of oxygen-doped niobium by 14-MeV neutrons
[DE84-000103] 04 p0610 N84-14026
Microstructure and phase composition of sputter-deposited zirconia-yttria films
[DE84-003352] 07 p1082 N84-17039
Wire tensile testing for radiation hardening experiments
[DE84-005884] 11 p1634 N84-20684

BRADLEY, G.
Mechanical construction of the 22 Nova laser
[DE84-005432] 11 p1663 N84-20855

BRADLEY, J.
The handling and performance trials needed to clear an aircraft to act as a receiver during air-to-air refuelling 24 p3848 N84-34405

BRADLEY, O. H., JR.
STEP mechanical systems 08 p1109 N84-17213

BRADLEY, P. A.
Ionospheric factors affecting the performance of HF sky-wave sea-state radars 06 p0868 N84-15656

BRADLEY, P. F.
Shuttle flight pressure instrumentation: Experience and lessons for the future 01 p0026 N84-10167
Heat transfer and oil flow studies on a single-stage-to-orbit control-configured winged entry vehicle
[NASA-TM-85833] 20 p3133 N84-29897

BRADLEY, R. A.
Some new results on Grubbs' estimators
[AD-A133922] 05 p0739 N84-14852

BRADLEY, R. P.
Utilization of laser diagnostics to evaluate combustor models 15 p2294 N84-24767

BRADLEY, W.
Research on composite materials for structural design
[AD-A134059] 05 p0645 N84-14242

BRADOW, F. V.
Air pollution effects on terrestrial ecosystems
[PB84-128313] 08 p1184 N84-17712

BRADSHAW, L. S.
Computer programs for summarizing climatic data stored in the National Fire Weather Data Library
[PB84-197011] 21 p3449 N84-31886

BRADSHAW, M. A.
Sedimentology of the Horlick Formation (Lower Devonians), Ohio Range, Transantarctic Mountains 14 p2162 N84-23948

BRADSHAW, P.
Bursts and pressure fluctuations in turbulent boundary layers
[AD-A143811] 23 p3747 N84-33754

BRADSHAW, R. W.
The X-ray-diffraction analysis of corrosion products of Fe-Ni-Cr alloys formed in molten-nitrate salts
[DE83-013317] 01 p0046 N84-10293

BRADSTREET, D. H.
K-type overcontact binaries 05 p0763 N84-15003

BRADT, H. V.
Two probable optical flashes from gamma-ray bursters
[NASA-TM-86126] 21 p3526 N84-32337

BRADT, R. C.
The impact resistance of SiC and other mechanical properties of SiC and Si3N4
[NASA-CR-165325] 15 p2301 N84-24809

BRADY, F. J.
A mathematical model for the doubly-fed wound rotor generator, part 2
[NASA-TM-83581] 08 p1149 N84-17479

BRADY, F. P.
Transmission of fast neutrons from the Li(d,xn) reaction through thick iron
[DE83-015975] 03 p0439 N84-12884

BRADY, J. V.
Positive and negative reinforcement effects on behavior in a three-person microsociety
[NASA-CR-173164] 09 p1363 N84-18902

Behavioral and biological effects of changes in group size and membership
[NASA-CR-173801] 19 p3067 N84-29457

BRADY, L.
Vibration Control Of Space Structures VCOSS B: Momentum exchange and truss dampening
[AD-A139910] 15 p2281 N84-24701

BRADY, L. K.
CURV 3: Characteristics and mission applications
[AD-A140225] 17 p2629 N84-26819

BRADY, M.
An extremum principle for shape from contour
[AD-A131321] 02 p0272 N84-11780
Artificial intelligence and robotics
[AD-A142468] 20 p3278 N84-30810
Smoothed local symmetries and their implementation
[AD-A142489] 20 p3279 N84-30811
The curvature primal sketch
[AD-A142460] 20 p3281 N84-30827

BRAEDT, M.
Reaction kinetics in glass melts. Corrosion of SiO-2. TEXUS 4 project 18 p2819 N84-27900

BRAEUNIG, D.
GfW handbook: Irradiation test guidelines for radiation hardness of electronic components
[HMI-B-380] 17 p2664 N84-26994

BRAGA, J.
Observations of galactic center for annihilation line at 0.511 MeV
[INPE-2907-PRE/421] 02 p0305 N84-12000
Telescope calibration for gamma spectroscopy with a new Ge(Li) diode configuration
[INPE-2885-PRE/407] 04 p0619 N84-14083
PULSAR: A balloon-borne experiment to detect variable low energy gamma-ray
[INPE-2950-PRE/433] 07 p1093 N84-17108

BRAGER, H. R.
Low activation approaches to materials development
[DE83-015972] 02 p0196 N84-11273
Fundamental alloy studies
[DE84-013941] 22 p3555 N84-32513

BRAGG, M. B.
Results of an experimental program investigating the effects of simulated ice on the performance of the NACA 63A415 airfoil with flap
[NASA-CR-166288] 07 p0947 N84-16145
A numerical simulation of the dispersal of aerial sprays
[NASA-CR-165816] 19 p3020 N84-29151

BRAGG, R. H.
Glass-like carbon: A C/sub x/H polymer intercalation compound
[DE84-001863] 05 p0660 N84-14340

BRAGINA, L. L.
Use of refractory coatings to protect metal gainst high-temperature corrosion
[BLL-M-35543-(5828.4)] 17 p2621 N84-26772

BRAGINSKI, A. I.
Thin film technology of high-critical-temperature superconducting electronics
[AD-A136722] 10 p1589 N84-20411
Superconducting electronic film structures
[AD-A141113] 19 p3110 N84-29760

BRAHMA, C. S.
Stochastic simulation of creep behavior
15 p2316 N84-24899

BRAHMNER-KACPRZYNSKA, A.
Green's function for a plane waveguide formulated with electronic plasma
[ISSN-0208-5658] 23 p3826 N84-34265

BRAILE, L. W.
Seismic properties of the crust and uppermost mantle of North America
[NASA-CR-175134] 06 p0877 N84-15708
Application of Magsat lithospheric modeling in South America. Part 1: Processing and interpretation of magnetic and gravity anomaly data
[E84-10115] 13 p2005 N84-23008
Application of MAGSAT to lithospheric modeling in South America. Part 2: Synthesis of geologic and seismic data for development of integrated crustal models
[E84-10126] 15 p2355 N84-25128
Satellite elevation magnetic and gravity models of major South American plate tectonic features
15 p2355 N84-25131
US aeromagnetic and satellite magnetic anomaly comparisons 15 p2356 N84-25136
Geology, hydrology, and mineral resources of crystalline rock areas of the Lake Superior region, US, part 1
[DE84-012682] 21 p3432 N84-31775

BRAININ, J.
Management of CAD/CAM information: Key to improved manufacturing productivity 12 p1889 N84-22300
Management of CAD/CAM information: Key to improved manufacturing productivity
[NASA-TM-86255] 19 p3080 N84-29545

BRAKEFIELD, J. C.
Stress assessment through voice analysis
[AD-A132577] 04 p0573 N84-13773

BRAMAN, K. B.
Development and evaluation of a performance modeling flight test approach based on quasi steady-state maneuvers
[NASA-CR-170414] 18 p2793 N84-27724

BRAMBLE, J. H.
Preconditioned iterative methods for nonselfadjoint or indefinite elliptic boundary value problems
[AD-A140777] 17 p2758 N84-27511

BRAMLETT, W. T., II
Design optimization of marine reduction gears
[AD-A136352] 09 p1325 N84-18656

BRAMLEY, E. N.
Ionospheric factors affecting the performance of HF sky-wave sea-state radars 06 p0868 N84-15656

BRAND, A.
Influence of choice of steel on forging
[CETIM-1.3K.32.1] 21 p3416 N84-31663

BRAND, P. W. J. L.
The behaviour of the 3.28 micron dust feature in NGC 2024 16 p2571 N84-26498
The behaviour of the 3.28 micron dust feature in NGC 2024 18 p2949 N84-28696

BRAND, R. A.
Energy source today and tomorrow
[MBB-UR-602-82-O] 16 p2564 N84-26452

BRAND, S.
Tropical cyclone sea-state probability model development and application
[AD-A142212] 19 p3059 N84-29407

BRANDEBERRY, F.
Proposed second harmonic acceleration system for the intense pulsed neutron source rapid cycling synchrotron
[DE84-003601] 08 p1230 N84-18036
Preliminary tests of a second harmonic RF system for the intense pulsed neutron source synchrotron
[DE84-003595] 08 p1230 N84-18041

BRANDENBERGER, R. H.
Topics in quantum field theory and cosmology
17 p2769 N84-27583

BRANDENBURG, G. H.
Method for thermal monitoring subcutaneous tissue
[NASA-CASE-LAR-13028-1] 11 p1694 N84-21053

BRANDENBURG, J. E.
Thomson-scattering measurements of electron temperature and density in a plasma channel created by a relativistic electron beam
[DE84-000356] 04 p0597 N84-13940
Analysis of mechanisms for anode plasma formation in ion diodes
[DE83-017793] 04 p0608 N84-14010

BRANDES, E. A.
Relationships between thunderstorm mesoscale circulation and tornadogenesis 06 p0880 N84-15727

BRANDHORST, H. W., JR.
Solar-array-materials passive LDEF experiment (A0171) 15 p2274 N84-24656
The effects of lithium counterdoping on radiation damage and annealing in n(+)p silicon solar cells
[NASA-TM-83755] 21 p3390 N84-31513
Photovoltaics: The endless spring
[NASA-TM-83684] 21 p3433 N84-31782
The NASA photovoltaic technology program
[NASA-TM-83685] 22 p3542 N84-32426

BRANDIS, H.
The ductility of metal diffusion coatings on nickel alloys and their characterization
[BLL-RISLEY-TRANS-4883] 12 p1795 N84-21706

BRANDON, L.
IPACS attitude control technology considerations
03 p0345 N84-12238

BRANDRUP, J.
Fluorothermoplastics for long life, weatherproof composites
[BMFT-FB-T-84-082] 20 p3164 N84-30096

BRANDT, A.
GRIDPACK: Toward unification of general grid programming
[AD-A131692] 03 p0420 N84-12746

BRANDT, H. E.
Nonlinear force on an unpolarized relativistic test particle to second order in the total field in a nonequilibrium beam-plasma system
[AD-A131631] 03 p0444 N84-12919
Nonlinear dynamic polarization force on a relativistic test particle in a nonequilibrium beam-plasma system
[AD-A136768] 10 p1577 N84-20331
The total field in collective bremsstrahlung in a nonequilibrium relativistic beam-plasma system
[AD-A136595] 10 p1585 N84-20391
On the form of the collective bremsstrahlung recoil force in a nonequilibrium relativistic beam-plasma system
[AD-A139695] 15 p2410 N84-25467
Theoretical methods in the calculation of the bremsstrahlung recoil force in a nonequilibrium beam-plasma system
[AD-A142136] 19 p3089 N84-29609

BRANDT, J.
Torsional vibration measurements on fiber reinforced composites
[MBB-BB-524-82-OE] 05 p0645 N84-14240
The effect of humidity on the thermomechanical behavior of carbon fiber reinforced epoxy resins
[MBB-BB-526-82-OE] 05 p0645 N84-14241

BRANDT, J. C.
Interaction of the plasma tail of comet Bradfie'd 1979L on 1980 February 6 with a possibly flare-generated solar-wind disturbance 03 p0475 N84-13126
Interaction of the plasma tail of comet Bradfield 1979L on 1980 February 6 with a possibly flare-generated solar-wind disturbance
[NASA-TM-85617] 17 p2777 N84-27632

BRANDT, M. A.
Vectorized multigrid Poisson solver for the CDC CYBER 205 10 p1561 N84-20230

BRANDT, S.
Radiation and clouds, the International Satellite Cloud Climatology Project (ISCCP) 10 p1535 N84-20060

BRANNIGAN, M.
Splines and the Galerkin method for solving the integral equations of scattering theory
[CSIR-TWISK-267] 04 p0588 N84-13873

BRANNON, D. P.
An initial analysis of LANDSAT 4 Thematic Mapper data for the classification of agricultural, forested wetland, and urban land covers
[E84-10073] 07 p1020 N84-16620

BRANSON, G.
High power neutral beam heating on Doublet 3
[DE84-012471] 21 p3501 N84-32156

BRANSON, J.
Detectors at 20 TeV and detector considerations for a high luminosity hadron-hadron machine
06 p0911 N84-15920

BRANSTATOR, G. W.
Horizontal energy propagation and barotropic instability in a quasi-linear model of the atmosphere
02 p0247 N84-11614

BRANSTETTER, J. R.
An investigation of the existence of a surface water layer on aircraft radomes during simulated flight in heavy precipitation
[NASA-TM-85813] 19 p3003 N84-29035

BRASCH, J. W.
Molecular order and solidification processes in organic liquids and solutions
[AD-A141777] 19 p3101 N84-29699

BRASHWELL, J. H.
Delineation of wetland boundaries using vegetation within the Altamaha River Basin of Georgia
[AD-A142590] 20 p3226 N84-30515

BRASKI, D. N.
Oxidation of Inconel alloy MA754 at low oxidation potential
[DE83-017191] 04 p0501 N84-13288
Improved swelling resistance for PCA austenitic stainless steel under HFIR irradiation through microstructural control
[DE84-003203] 08 p1133 N84-17370
A modified tritium trick technique for doping vanadium alloys with helium
[DE84-014267] 23 p3720 N84-33581

BRASSEUR, G.
Coupling between the thermosphere and the stratosphere: The role of nitric oxide
[AERONOMICA-ACTA-A-270-1983] 16 p2520 N84-26175

BRASUNAS, J. C.
A comparison of storm tracking and extrapolation algorithms
[DOT-FAA-PM-84/1] 23 p3800 N84-34091

BRATINA, T. A.
Developing and measuring an understanding of the concept of the limit of a sequence
[AD-A139399] 14 p2214 N84-24296

BRATOS, M.
The shock wave structure in one-component gas and in binary gas mixture
[ISSN-0208-5658] 03 p0370 N84-12407

BRATTON, J. L.
Fundamental properties of soils for complex dynamic loadings: Dynamic constitutive modeling of sandy soils
[AD-A131284] 02 p0206 N84-11341

BRAU, C. A.
High-efficiency free-electron-laser experiments
[DE83-015218] 02 p0227 N84-11487
The Los Alamos free-electron-laser oscillator experiment: Plans and present status
[DE83-017290] 03 p0382 N84-12485

BRAU, J. E.
A measurement of the response of an SCG1-C scintillation glass shower detector to 2-17.5 GeV positrons 06 p0913 N84-15930
BRAU, K.
Impurity poloidal asymmetries and plasma rotation in the PDX Tokamak 05 p0748 N84-14914
BRAUER, G.
Observations on the vanadium-nitrogen system and on pure metallic vanadium
[CSIR-TRANS-1708] 06 p0805 N84-15243
BRAULT, J. W.
The 12 micron band of ethene: A spectral catalog from 765 cm(-1) to 900 cm(-1)
[NASA-TM-85108] 10 p1454 N84-19493
Line width and line shape analysis in the inductively coupled plasma by high resolution Fourier transform spectrometry
[DE84-004358] 10 p1457 N84-19513
BRAUN, C. L.
Ada (Trademark) training considerations
[AD-P003560] 21 p3335 N84-31164
BRAUN, D.
Wind energy converter GROWIAN 2
[BMFT-FB-T-84-063] 19 p3051 N84-29364
BRAUN, H. I.
New approaches to robust confidence intervals for location: A simulation study
[AD-A142248] 19 p3094 N84-29646
BRAUN, H. J.
Error margins by segmentation of speech signals with autocorrelation procedures for linear prediction coding systems
[FI-13-TBR-17] 16 p2481 N84-25911
BRAUN, H. M.
Study of wind scatterometer antenna for ERS-1. Volume 1: Executive summary report
[Y/A-3380] 13 p2017 N84-23060
Study of windscatterometer antenna for ERS-1
[MIX/A-3188] 13 p2018 N84-23061
ERS-1 system simulation and calibration
23 p3783 N84-33991
BRAUN, J. P.
DOA location accuracy of a multibeam antenna system
[AD-A136386] 09 p1298 N84-18487
BRAUN, M. J.
Experimental study of bubble cavities attached to a rotating shaft in a reservoir
[NASA-TM-83586] 08 p1157 N84-17533
BRAUN, P.
Surface analysis by particle beams
06 p0814 N84-15301
BRAUN, W.
Note on an accident to the Boulton Paul 120 VT 951 delta aircraft
[RAE-STRUCT-ACC-248] 17 p2603 N84-26677
BRAUNE, R.
Initial validation of a functional age profile for aviators
[AD-P003271] 18 p2907 N84-28436
BRAUNSTEIN, D. R.
NASA's emerging productivity program
11 p1748 N84-21404
BRAUNSTEIN, H. et al.
Intercomparison of stable-element content of foods by statistical methods
[DE83-014029] 01 p0118 N84-10764
BRAUNSTEIN, J.
Composition gradients in electrolyzed LiCl-KCl melts
[DE83-012347] 01 p0037 N84-10237
Research opportunities in salt hydrates for thermal energy storage
[DE84-002977] 07 p1026 N84-16650
BRAUNSTEIN, R.
Characterization of infrared optical properties of transparent materials
[AD-A131554] 02 p0294 N84-11930
Characterization of infrared optical properties of transparent materials
[AD-A143988] 23 p3825 N84-34257
BRAUSCH, J. F.
Experimental investigation of shock-cell noise reduction for dual-stream nozzles in simulated flight comprehensive data report. Volume 1: Test nozzles and acoustic data
[NASA-CR-168336-VOL-1] 14 p2220 N84-24323
Experimental investigation of shock-cell noise reduction for dual-stream nozzles in simulated flight comprehensive data report. Volume 2: Laser velocimeter data, static pressures and shadowgraph photos
[NASA-CR-168336-VOL-2] 14 p2220 N84-24324
Free jet feasibility study of a thermal acoustic shield concept for AST/VCE application: Single stream nozzles
[NASA-CR-3758] 19 p3096 N84-29661
Experimental investigation of shock-cell noise reduction for single-stream nozzles in simulated flight, comprehensive data report. Volume 1: Test nozzles and acoustic data
[NASA-CR-168234-VOL-1] 22 p3652 N84-33148
Experimental investigation of shock-cell noise reduction for single-stream nozzles in simulated flight, comprehensive data report. Volume 2: Laser velocimeter data
[NASA-CR-168234-VOL-2] 22 p3652 N84-33149
Experimental investigation of shock-cell noise reduction for single-stream nozzles in simulated flight, comprehensive data report. Volume 3: Shadowgraph photos and facility description
[NASA-CR-168234-VOL-3] 22 p3652 N84-33150
BRAUSER, K.
New flight deck design in the light of the operational capabilities 06 p0778 N84-15097
BRAY, D. E.
Optimization of ultrasonic flaw detection in railroad rail
[PB83-236919] 03 p0386 N84-12518
BRAY, O. H.
CAD/CAM data management
12 p1874 N84-22212
BRAY, R. S.
A method for three-dimensional modeling of wind-shear environments for flight simulator applications
[NASA-TM-85969] 20 p3127 N84-29857
BRAZIER, R. E. J.
Aeroelastic design of civil transports at the project stage 02 p0170 N84-11120
BRAZIL, S.
Intermodulation product levels in flame-sprayed materials 22 p3573 N84-32629
BREAKALL, J. K.
The discrete prolate spheroidal filter as a digital signal processing tool 17 p2696 N84-27174
BREAKER, L. C.
The space-time scales of variability in oceanic thermal structure off the central California coast
[AD-A142040] 19 p3062 N84-29428
Interannual variability in sea-surface temperature at one location along the central California coast
[AD-A142553] 20 p3251 N84-30632
BREAKWELL, J. A.
ACOSS twelve (active control of space structures)
[AD-A143829] 23 p3701 N84-33458
BREAULT, R. P.
Stray light analysis of the Diffuse Infrared Background Experiment (DIRBE)
[NASA-CR-175225] 16 p2575 N84-26529
BREBRICK, R. F.
Properties of mercury-cadmium-telluride solid solutions
[AD-A130224] 01 p0156 N84-11025
BRECHT, S. H.
MHD (Magnetohydrodynamic) simulation of a comet magnetosphere
[AD-A140208] 16 p2580 N84-26546
BRECHTEL, D. L.
Competitive procurements: The synergistic linkage among government, industry and academe
[AD-P002773] 13 p2053 N84-23320
BRECKINRIDGE, J. B.
Spatial interferometry for white light processing: The coherence interferometer 12 p1905 N84-22407
BRECKON, T.
Environments and search paths for the software tools
[DE83-016607] 03 p0420 N84-12749
BREDA, I. R.
Weldability of steels: Study of cracking and methods of examination
[BLL-RISLEY-TRANS-4519-(9091.9)]
22 p3550 N84-32475
BREED, C. S.
Substance geology of the western desert in Egypt and Sudan revealed by Shuttle Imaging Radar (SIR-A)
07 p0987 N84-16392
Multiprocess evolution of landforms in the Kharga Region, Egypt: Applications to Mars
13 p2086 N84-23511
BREED, D. W.
Case studies on convective storms, case study 1, 13 July 1978: First echo case
[PB84-147479] 12 p1862 N84-22134
BREEMAN, J. H.
Determination of performance and stability characteristics from dynamic manoeuvres with a transport aircraft using parameter identification techniques
24 p3847 N84-34400
BREEN, T. J.
Cognitive organization as a function of flying experience
[AD-A141767] 19 p3068 N84-29459
BREGLIA, D. R.
CIG distortion correction with delay lines
[AD-D011025] 19 p3079 N84-29537
BREGMAN, J. D.
A cryogenically cooled, multidetector spectrometer for infrared astronomy
[NASA-TM-86004] 23 p3840 N84-34359
BREGMAN, R.
A study for developing an ultrasonic Doppler flowmeter
[BMFT-FB-T-84-135] 23 p3752 N84-33788
BREHM, L. T.
Determination of Cr(6) and Cr(3) by ICP
[DE83-016627] 10 p1457 N84-19515
BREHMER, W.
Development and investigation of a high level token passing module for local communication networks
[HMI-B-387] 15 p2322 N84-24941
BREIDENBACH, M.
The problem of tracking charged particles in the cores of high energy jets in a high rate environment
06 p0911 N84-15916
BREIGLEB, W.
Do living cells have a good sensitivity to gravity
17 p2744 N84-27425
BREILAND, W. G.
In situ laser measurements of silicon CVD
[DE84-004148] 10 p1501 N84-19809
BREISACHER, P.
Electrostatic filtration of N2O4 for removal of solid and vapor contaminants 20 p3138 N84-29922
BREITBART, Y. J.
RIM as an implementation tool for a distributed heterogeneous database 12 p1890 N84-22311
BREITHAUPT, D.
Dynamic compressive strain rate tests on 2 types of beryllium
[DE84-006126] 11 p1635 N84-20691
New developments in cylinder testing
[DE84-002782] 15 p2337 N84-25033
BREITHAUPT, R. D.
Yield stress of type 21-6-9 stainless steel over a wide range of strain rate (10(-5) to 10-4 s(-1)) and temperature
[DE83-017159] 06 p0807 N84-15259
The yield stress of type 21-6-9 stainless steel over a wide range of strain rate (10(-5) to 10(4) s(-1)) and temperature
[DE84-000914] 15 p2298 N84-24793
BREKHMAN, I. I.
Effect of eleuterococcus extract on recovery processes in rats following seven-day hypokinesia
02 p0260 N84-11706
BREKHOVSKIKH, A. L.
Seasonal variability of surface currents in world ocean
17 p2698 N84-27188
BRENDLEY, K. W.
Synthesis of refractory compounds with gasless combustion reactions
[AD-A140296] 16 p2472 N84-25842
BRENDLING, W. J.
An assessment of some methods for calculating wave loading
[NMI-R-162] 05 p0694 N84-14555
BRENEMAN, J. E.
Weibull analysis handbook
[AD-A143100] 21 p3475 N84-32023
BRENNAN, A. M.
Glaciological data: Permafrost. A bibliography, 1978 - 1982
[PB83-249730] 04 p0565 N84-13724
BRENNAN, D. H.
Visual problems in helicopter operations
16 p2536 N84-26283
BRENNAN, J. J.
Thermo-mechanical and thermal behavior of high-temperature structural materials
[AD-A140520] 16 p2461 N84-25775
BRENNECKE, J.
Validation of SEASAT-1 altimetry using ground truth in the North Sea region
[SER-B-263-MITT-166] 08 p1179 N84-17681
The computation of an astrogravimetric geoid by adjustment 17 p2727 N84-27357
BRENNECKE, W.
Feasibility study of a low cost Energy Performance Management System (EPMS)
[BMFT-FB-W-84-015] 21 p3328 N84-31116
BRENNEIS, H.
Connection of large Airbus components taking example of control surfaces junctions
[MBB-UT-07-82-OE] 05 p0629 N84-14134
BRENNEMAN, D. J.
FORTRAN 5 cross-reference
[DE84-006438] 11 p1709 N84-21143
BRENNER, A. C.
A study of satellite radar altimeter operation over ice-covered surfaces
[ESA-CR(P)-1810] 08 p1179 N84-17683

BRENNER, A. E.
The future of computing technology in physics: The potentials and pitfalls
[DE84-007249] 15 p2389 N84-25330
BRENNER, D.
Adaptive noise cancellation in neuromagnetic measurement systems
[AD-A132547] 05 p0684 N84-14494
BRENNER, H.
A microchemical derivation of the differential equations of interfacial statics. 3: Line tension
15 p2307 N84-24844
BRENNER, I. S.
Stratified maximum temperature relationships between sixteen zone stations in Arizona and respective key stations
[PB83-249904] 04 p0568 N84-13746
BRENNER, P.
On space-time means and everywhere defined scattering operators for nonlinear Klein-Gordon equations
[CTH-MATH-1983-13-PREPRINT]
03 p0426 N84-12793
BRENNING, N.
An improved microwave interferometer technique for plasma density measurements
[TRITA-EPP-83-08] 18 p2935 N84-28611
BRENNOCK, D. J.
The feasibility, practicality and utility of P-3 inflight refueling
[AD-A143419] 22 p3535 N84-32382
BRENT, R. P.
The first 200,000,001 zeros of Riemann's zeta function 08 p1225 N84-18006
A systolic algorithm for integer GCD computation
[AD-A144409] 24 p3951 N84-35019
BRENTJES, A. J.
Multi-dimensional continued fraction algorithms
08 p1225 N84-18003
BRENTNALL, W. D.
A vibration damping treatment for high temperature gas turbine applications 10 p1514 N84-19912
BRES, E. V.
The heat treatment response of thermomechanically processed M-50 steel
[AD-A138571] 13 p1960 N84-22736
BRESLAV, I. S.
Biofeedback regulation of pulmonary ventilation
18 p2897 N84-28378
BRESNAHAN, P. A.
Novel composite membranes
[PB83-243170] 03 p0351 N84-12284
BRESSAN, A.
A high-order test for optimality of bang-bang controls
[AD-A136375] 09 p1371 N84-18954
On the Taylor approximation of control systems
[AD-A139255] 14 p2212 N84-24285
Local asymptotic approximation of nonlinear control systems
[AD-A139260] 14 p2213 N84-24288
Global solutions for the one-dimensional equations of a viscous reactive gas
[AD-A142931] 21 p3400 N84-31569
Directional convexity and finite optimality conditions
[AD-A141698] 21 p3471 N84-32000
The generic local time-optimal stabilizing controls in dimension 3
[AD-A144662] 24 p3952 N84-35027
BRESSAN, D. J.
Sea salt aerosol, atmospheric radon and meteorological observations in the western South Atlantic Ocean (February 1981)
[AD-A134792] 08 p1195 N84-17794
BRESSLER, M. M.
Auxiliary heat-exchanger flow-distribution test
[DE83-012698] 01 p0082 N84-10535
BRESSLER, S. L.
Neurocognitive pattern analysis
[AD-A131302] 01 p0114 N84-10740
Single trial brain electrical patterns of an auditory and visual perceptuomotor task
[AD-A135545] 09 p1362 N84-18899
BRETCHES, J. E.
East Butte: A volcanic dome of the Eastern Snake River Plain, Idaho 13 p2079 N84-23475
BRETON, T.
Computer analysis of effects of altering jet fuel properties on refinery costs and yields
[NASA-CR-174642] 18 p2820 N84-27908
BRETON, T. R.
Economic assessment of nine geothermal direct use applications
[DE84-006475] 12 p1844 N84-22021
BRETSCHER, M. E.
Guide to reporting time in the financial information system at ANL
[DE84-009356] 15 p2419 N84-25524
BRETT, D. J.
Extraction of rotation information from a simulated fiber optic gyro using amplitude modulation
[AD-A138092] 12 p1767 N84-21528
BRETT, S. F.
Tendering on a micro computer
05 p0717 N84-14700
BRETZ, P. E.
Investigation of fatigue crack-growth resistance of aluminum alloys under spectrum loading
[AD-A133206] 06 p0806 N84-15251
BREUER, C. T.
New applications for phosphoric acid fuel cells
[NASA-CR-168203] 09 p1341 N84-18757
BREUGELMANS, F. A. E.
Structure of rotating stall cells. Part 1: Absolute motion 16 p2489 N84-25967
Structure of rotating stall cells. Part 2: Relative motion 16 p2490 N84-25970
BREWE, D. E.
Hydrodynamic lubrication of rigid nonconformal contacts in combined rolling and normal motion
[NASA-TM-83578] 08 p1166 N84-17592
BREWER, D. W.
Some properties of a 5-parameter bivariate probability distribution
[NASA-TM-82550] 06 p0904 N84-15866
Statistical modeling of space shuttle environmental data
[NASA-CR-170940] 10 p1573 N84-20304
A differential equations approach to the modal location for a family of bivariate gamma distributions
10 p1573 N84-20307
BREWER, J. A., III
Computer-Aided Structural Engineering (CASE) project. User's guide: Computer graphics program for generation of engineering geometry (SKETCH)
[AD-A133600] 06 p0861 N84-15611
Computer-Aided Structural Engineering (CASE) project. Reference manual: Computer graphics program for generation of engineering geometry (SKETCH)
[AD-A133493] 06 p0898 N84-15828
BREWER, J. M.
Revitalization: An organizational program for the individual
[DE83-014949] 03 p0458 N84-13013
Growth and characterization of metal oxide whiskers for aerosol filtration
[DE84-011049] 20 p3310 N84-31021
BREWER, L.
Calculations of composition boundaries of saturated phases
[DE84-001665] 04 p0499 N84-13274
BREWER, L. R.
Earthquakes in the United States, April - June 1982
[USGS-CIRC-896-B] 14 p2175 N84-24026
BREWER, R. L.
Analysis of gases in the Earth's crust
[PB83-243972] 02 p0251 N84-11643
BREWSTER, L. L.
Computer vision for real-time orbital operations. Center directors discretionary fund
[NASA-TM-86457] 22 p3640 N84-33076
BRICE, D.
Agricultural waste water reverse osmosis pretreatment
[PB84-153543] 17 p2725 N84-27347
BRICE, D. K.
Steady-state hydrogen transport in solids exposed to fusion-reactor plasmas. Part 3: Applications of theory
[DE84-001646] 04 p0611 N84-14033
BRICE, L.
Benchmarking unstructured systems
[DE83-011175] 05 p0758 N84-14969
Prolonging the life of software
[DE84-001722] 22 p3641 N84-33088
BRICK, D. B.
Microbus
[AD-A132338] 18 p2833 N84-27984
BRICKELL, E. F.
Solving low density knapsacks
[DE84-006964] 22 p3641 N84-33085
BRICKHOUSE, N. S.
Experimental study of impurity production in the Tokapole II Tokamak
[DE84-009659] 19 p3109 N84-29754
BRIDEN, F. E.
X-ray diffraction phase analysis of process and pollution control device samples
[PB84-168632] 15 p2367 N84-25201
BRIDGELAND, M. T.
The automated photographic measuring facility at Cambridge 18 p2842 N84-28043
BRIDGES, A. C.
Changes in attitudes toward women at the Air Force Academy
[AD-P003261] 18 p2906 N84-28428
BRIDGES, D. E.
Binary classification and the subtractive approach
[AD-A137716] 11 p1701 N84-21099
BRIDGES, P. D.
An investigation of a new flight test method for measuring the performance of general aviation aircraft
22 p3534 N84-32375
BRIDGES, W. F.
Three-wire static strain gage apparatus
[AD-D011130] 22 p3596 N84-32776
BRIDGLAND, M. F.
Geodetic graphs and convexity
21 p3425 N84-31729
BRIDGMAN, M. S.
Validation of digital systems in avionics and flight control applications handbook, volume 1
[AD-A133222] 06 p0788 N84-15150
BRIDY, D. J.
Spherically symmetric radiation in gravitational collapse 22 p3677 N84-33312
BRIEGEL, J.
Development of large area Multi-coloured Multifunctional Displays (MFA) in liquid crystal technology
[BMFT-FB-T-83-098] 02 p0300 N84-11970
BRIENDEL, A. M.
Advanced fuel-cell development
[DE84-002685] 05 p0676 N84-14445
BRIENS, G.
The influence of fabrication flows on the static and dynamic behavior of structures made of carbon-resin composites 01 p0034 N84-10215
BRIESMEISTER, R. A.
Infrared-laser spectroscopy using a long-pathlength absorption cell
[DE83-014197] 03 p0381 N84-12480
BRIGGS, F.
The role of the Automated Plate Measuring (APM) machine in developing a program to discover QSOs automatically 18 p2843 N84-28054
BRIGGS, G. A.
Diffusion modeling with convective scaling and effects of surface inhomogeneities
[PB84-210053] 22 p3627 N84-32981
BRIGGS, J.
Ada-Europe guidelines for the portability of Ada programs, second edition
[NPL-DITC-27/83] 03 p0419 N84-12739
BRIGGS, M. M.
Effects of blowing spanwise from the tips of low-aspect ratio wings of varying taper ratio, with application to improving STOL capability of fighter aircraft
[AD-A135688] 09 p1252 N84-18175
BRIGGS, R. J.
Beam dynamics in the Advanced Test Accelerator (ATA)
[DE84-001421] 04 p0598 N84-13947
BRIGGS, R. L.
General aviation TCAS (Traffic Alert and Collision Avoidance System) avionics (GATCAS)
[AD-A139145] 14 p2104 N84-23618
BRIGHAM, W. E.
Flow of foam through porous media
[DE84-012410] 20 p3186 N84-30246
BRIGHAM, W. P.
UV laser triggering of crowbars used in the Sandia lightning simulator
[DE84-009064] 20 p3180 N84-30199
BRILENE, T. A.
Study of erythrocyte adhesion in cosmonauts
15 p2375 N84-25252
BRILEY, W. R.
Further development of a method for computing three-dimensional subsonic viscous flows in turbofan lobe mixers
[NASA-CR-168304] 05 p0679 N84-14462
Computation of discrete slanted hole film cooling flow using the Navier-Stokes equations
[AD-A137022] 10 p1493 N84-19763
BRILIS, V. I.
Study of erythrocyte adhesion in cosmonauts
15 p2375 N84-25252
BRILL, A. B.
Fourier-processed images of dynamic lung function from list-mode data
[DE83-013276] 01 p0114 N84-10741
BRILL, J. R.
Preventive maintenance intervals for components of the F-15/F100 aircraft engine
[AD-A135637] 09 p1249 N84-18156

BRILLSON, L. J.
Chemical bonding, interdiffusion and electronic structure at InP, GaAs, and si-metal interfaces
[AD-A141809] 19 p2988 N84-28936
BRIMHALL, J. L.
Radiation-induced phosphorus segregation in austenitic and ferritic alloys
[DE84-000903] 04 p0504 N84-13302
Pulsed-ion-irradiated microstructures in molybdenum
[DE84-000679] 04 p0504 N84-13304
Corrosion behavior of Ni(+)-ion irradiated NiTi alloys
[DE84-003891] 09 p1285 N84-18392
BRINATI, H. L.
An adaptive attitude controller for terrestrial artificial satellites
[INPE-3186-PRE/551] 21 p3349 N84-31243
BRINCA, A. L.
Ion coupling to magnetosheath bulk motion
05 p0641 N84-14217
BRINCKMAN, F. E.
Characterization of organometallic polymers by chromatographic methods and nuclear magnetic resonance, part 2
[PB84-183599] 20 p3165 N84-30100
BRINDLEY, D. A.
Some new results on Grubbs' estimators
[AD-A133922] 05 p0739 N84-14852
BRINK, G. O.
Plasma magnetic field measurement by intracavity absorption
[DE84-005152] 10 p1500 N84-19806
BRINKE, R.
Symposium on Heat Pumps per DIN 8900
[BLL-TRANS-T5843/BG-MRS1796-82]
01 p0076 N84-10500
BRINKER, C. J.
Sol-gel transition in simple silicates, 2
[DE83-013975] 01 p0051 N84-10329
BRINKLEY, J. W.
Effects of a negative G strap on restraint dynamics and human impact response
[AD-A136642] 13 p2024 N84-23121
BRINKMAN, D. W.
Review of storage stability characteristics of hydrocarbon fuels, 1952-1982
[DE84-006557] 12 p1803 N84-21754
BRINKMANN, D.
Measurement of diffusion constant by pulsed magnetic field gradient NMR in Ag26I13W4O16 RbAg4I5 and KAg4I5
11 p1743 N84-21373
BRINKMANN, P. W.
The Large Space Simulator (LSS) at ESA/ESTEC (a summary of the main characteristics)
10 p1448 N84-19458
Main characteristics of the Large Space Simulation (LSS)
24 p3862 N84-34472
BRINSON, H. F.
Nonlinear viscoelastic characterization of structural adhesives
[NASA-CR-172279] 06 p0809 N84-15268
Viscoelastic analysis of adhesive stresses in bonded joints
[NASA-CR-173243] 09 p1288 N84-18411
Cumulative creep damage for polycarbonate and polysulfone
[NASA-CR-173433] 16 p2471 N84-25840
The nonlinear viscoelastic response of resin matrix composite laminates
[NASA-CR-3772] 17 p2617 N84-26750
Finite element analysis of bonded joints
[AD-A140559] 17 p2680 N84-27068
BRINSON, M. R.
Minimum time turns with direct sideforce
[AD-A136958] 10 p1429 N84-19342
BRINZA, V. N.
Development of an alloy with high damping properties
[BLL-M-35211-(5828.4)] 01 p0041 N84-10260
Aspects of damping of sonic vibrations due to impact loading in plate steels
[BLL-M-35295-(5828.4)] 06 p0908 N84-15895
Investigation of the characteristics of a ventilated transparent shield
[BLL-M-35562-(5828.4)] 17 p2665 N84-26996
BRIOTTA, D. A., JR.
Abundances in galactic H2 regions, 3: G25.4-0.2, G45.5+0.06, M8, S159 and DR22
[NASA-TM-85962] 17 p2774 N84-27616
BRISCO, B.
Mapping and monitoring renewable resources with space SAR
07 p0988 N84-16403
BRISCOE, D.
Evaluation of mica substitutes for use in thermal batteries
[AD-A140650] 17 p2723 N84-27330
BRISCOE, H. M.
A rationale for the testing of space mechanisms
09 p1296 N84-18471
BRISCOE, M. G.
Long term upper ocean study (LOTUS) at 34 deg N, 70 deg W: Meteorological sensors, data and heat fluxes for May-October 1982 (LOTUS-3 and LOTUS-4)
[AD-A133883] 05 p0711 N84-14659
The long term upper ocean study (LOTUS). Cruise summary and hydrographic data report, ENDEAVOR 97, April 1983
[AD-A134005] 06 p0883 N84-15745
BRISENFELDT, R.
Airborne fallout monitoring
[FOA-A-40045-A3] 08 p1183 N84-17705
BRISKI, M. S.
Effects of mean flow on the dynamic characteristics of fluid transmission lines
[AD-A136959] 10 p1492 N84-19759
BRISKIN, L.
Network repair level analysis model user's guide
[AD-A141991] 20 p3269 N84-30743
BRISTOW, D. R.
Development of MCAERO wing design panel method with interactive graphics module
[NAS 1.60:3775] 14 p2104 N84-23623
BRISTOWE, P. D.
Structural unit/grain boundary dislocation model for grain boundary structure
[DE84-003167] 10 p1589 N84-20416
Detection of expansion at large angle grain boundaries using electron diffraction
[DE84-007889] 15 p2414 N84-25496
BRITCHER, C. P.
Performance measurements of a pilot superconducting solenoid model core for a wind tunnel magnetic suspension and balance system
[NASA-CR-172243] 03 p0338 N84-12192
BRITT, A. D.
EPR spectroscopy of thermally initiated free radicals in RDX
[AD-A133976] 05 p0646 N84-14251
BRITT, B.
Graphics language, version 2.2
[AD-A142438] 20 p3272 N84-30772
BRITT, C. L.
CDTI target selection criteria
[NASA-CR-3776] 08 p1104 N84-17178
SASS 1 model function evaluation and upgrade
23 p3778 N84-33956
BRITT, P. P.
Marine Air Traffic Control And Landing System (MATCALS) investigation
[AD-A130309] 01 p0007 N84-10045
BRITTAIN, J. O.
The relationship of engineering properties to the molecular structure of polymeric materials: Damage accumulation processes
[AD-A138411] 12 p1801 N84-21745
BRITTAIN, V. A.
Subsonic high-angle-of-attack aerodynamic characteristics of a cone and cylinder with triangular cross sections and a cone with a square cross section
[NASA-TM-84377] 01 p0003 N84-10019
BRITTON, D. L.
Development of a lightweight nickel electrode
[NASA-TM-86861] 20 p3234 N84-30528
BRITTON, K. H.
A standard organization for specifying abstract interfaces
[AD-A143787] 23 p3815 N84-34194
BRIXNER, B.
Optical engineering at Los Alamos: A history
[DE83-009905] 12 p1908 N84-22431
BRKIC, G.
Poly (ADP-ribose) in nucleoids
[OEFZS-4267] 18 p2900 N84-28399
BROAD, C.
Uninstalled aero engine testing in operation in the Royal Air Force
16 p2453 N84-25731
BROADFOOT, A. L.
Scientific program in planetary atmospheric studies
[NASA-CR-175361] 09 p1416 N84-19263
BROADHURST, M. G.
Temperature dependent hysteresis study in polyvinylidene fluoride
[AD-A132675] 05 p0659 N84-14331
Rigorous bounds for the calculated dielectric constants of ferroelectric polymers
[AD-A132741] 05 p0659 N84-14332
Pre-existing polarization and influence of electrode materials on PVF2 electrets as determined by thermal pulse and pyroelectric methods
[AD-A132896] 05 p0659 N84-14335
Hysteresis in copolymers of vinylidene fluoride and trifluoroethylene
[AD-A137446] 10 p1466 N84-19577
Polymer Science and Standards Divisions report, 1983
14 p2130 N84-23773
BROADIE, M. N.
Computational experience with the octahedral algorithm and related results
[DE83-015834] 02 p0283 N84-11854
BROADWAY, J. A.
Analytical capability of the environmental radiation ambient monitoring system
[PB84-166818] 16 p2520 N84-26177
BROADWELL, J. E.
Chemically reacting turbulent shear layers
[AD-A131553] 02 p0295 N84-11931
Chemical reactions in turbulent mixing flows, revision
[AD-A133874] 05 p0647 N84-14258
BROADWIN, M. E.
Microwave sintering of ceramics
[AD-A138402] 12 p1801 N84-21744
BROBERG, H.
The basic concept of particle rest mass in a quantized relativistic universe
[ESA-STM-233] 23 p3832 N84-34306
BROBERG, K. B.
On crack paths
[AD-P003110] 16 p2468 N84-25815
BROBST, W. D.
The reaction NH2 + PH3 yields NH3 + PH2: Absolute rate constant measurement and implication for NH3 and PH3 photochemistry in the atmosphere of Jupiter
[NASA-TM-85063] 13 p2072 N84-23430
BROCAIL, B.
Orbital propulsion module system configuration study. Volume 1: Executive summary
[S/DT/YA-25-030-VOL-1] 08 p1120 N84-17282
BROCARD, O.
A vectorized finite element method for computation of transonic tridimensional potential flows
[SNIAS-832-111-105] 15 p2257 N84-24555
BROCARD, Y.
Vortical flow exploration methods developed for the F1 wind tunnel
14 p2099 N84-23598
BROCK, D.
Assessment of quality of data on tapes from the hydrogeochemical and stream sediment reconnaissance
[DE83-017697] 04 p0554 N84-13647
BROCK, G. H.
Intercenter Problem Reporting and Corrective Action System (PRACAS)
11 p1748 N84-21408
The administrative window into the integrated DBMS
22 p3671 N84-33270
BROCK, J.
Optical spectroscopy of disordered materials and X-ray scattering from surfaces
22 p3682 N84-33345
BROCK, R.
Very large scale integration logical and physical structures of VLSI systems
[BMFT-FB-T-83-267] 10 p1488 N84-19730
Integrated filters in MOS technology
[BMFT-FB-T-83-194] 10 p1590 N84-20419
BROCKETT, P.
A method for constructing a unimodal inferential or prior distribution
[AD-A141389] 19 p3083 N84-29566
Information-theoretic non-parametric unimodal density estimation
[AD-A144522] 24 p3953 N84-35035
BROCKMAN, M. H.
Enhanced radio frequency carrier margin improvements for an array of receiving systems with unequal predetection signal-to-noise ratios
10 p1475 N84-19637
BROCKMAN, R. A.
MAGNA (Materially And Geometrically Nonlinear Analysis). Part 2: Preprocessor manual
[AD-A129025] 01 p0120 N84-10782
MAGNA (Materially And Geometrically Nonlinear Analysis). Part 4. Quick-reference manual
[AD-A129026] 01 p0120 N84-10783
Current problems and progress in transparency impact analysis
[AD-P003233] 17 p2597 N84-26646
BROCZDO, P.
Microcomputers of Socialist countries
24 p3944 N84-34969
BRODBECK
Planning and implementation of automated cutting in the precision engineering industry
[MBB-UA-772-83-O] 14 p2135 N84-23794
BRODBECK, C. M.
EPR spectra of rare earth s-state ions in glassy systems
[DE83-014686] 01 p0155 N84-11022

BRODE, H. L.
Initial human response to nuclear radiation
[AD-A137543] 11 p1694 N84-21054
BRODECKI, R. D.
Characterization of the microstructures of various materials
[AD-A141946] 20 p3152 N84-30017
BRODERICK, R. J.
Ni-Cd battery life expectancy in geosynchronous orbit
23 p3738 N84-33687
BRODERSEN, B.
A thousand-word speech-recognition system using special-purpose MOS-LSI 09 p1399 N84-19140
BRODERSEN, E.
F-16 Penguin anti-ship missile integration
03 p0315 N84-12059
BRODERSEN, R. W.
VLSI research
[AD-A134628] 08 p1151 N84-17491
The vocoder project
[AD-A135820] 09 p1302 N84-18512
VLSI research, semi-annual technical R&D (Research and Development)
[AD-A138339] 12 p1812 N84-21813
VLSI research
[AD-A142142] 19 p3016 N84-29119
BRODIN, M. S.
Optical bistability and hysteresis under phase conjugation in CdS crystal 14 p2240 N84-24450
BRODKEY, R. S.
Kinetic-elastic approach for time-dependent rheological data on slurry fuels and polymers
[AD-A141210] 18 p2821 N84-27911
BRODMAN, B. W.
Neutron radiographic study of liquid propellant combustion 13 p1949 N84-22669
BRODOV, G. I.
Device for marking and searching for information on a magnetic carrier
[AD-A139393] 14 p2148 N84-23867
BRODRICK, H.
The impact of satellite temperature soundings on the forecasts of a small national meteorological service
17 p2717 N84-27295
BRODRICK, R. F.
Fatigue considerations in view of measured load spectra
[AD-A140221] 17 p2679 N84-27067
BRODSKIY, M. A.
Uniqueness of inverse problem in gravimetry for homogeneous polyhedrons 17 p2700 N84-27201
Uniqueness in plane inverse problems in gravimetry and magnetometry 17 p2705 N84-27226
BRODSKIY, V. B.
Concerning the possibility of employing superconducting systems for analyzing the composition of cosmic rays
[AD-A133792] 05 p0765 N84-15021
BRODSKY, S. J.
Problems at the interface between perturbative and nonperturbative quantum chromodynamics
[DE84-002375] 06 p0926 N84-16018
Applied chromodynamics
[DE84-009136] 21 p3495 N84-32152
BRODY, H. D.
Simulation of heat transfer and fluid flow in the solidification of alloys 15 p2306 N84-24836
BRODZINSKI, R. L.
Double beta decay: Recent developments and projections
[DE84-000476] 04 p0598 N84-13944
BROECKER, F. W.
Guidelines and criteria for the functional integration of avionic systems with crew members in command
06 p0770 N84-15044
BROECKER, W. S.
Climate-chemistry connection
[DE84-001950] 06 p0882 N84-15739
BROECKERHOFF, P.
First investigations on a wrapped fiber blanket insulation with massive spacers consisting of carbon fiber composite
[JUEL-1840] 05 p0646 N84-14247
BROEK, D.
A critical review of the short crack problem in fatigue
[AD-A131349] 02 p0231 N84-11516
BROEMS, M.
Information technique 1982: Underwater technique
[FOA-C-30296-E1,E2,E3] 07 p1085 N84-17058
Transient circuit overvoltages in Swedish manufacturing industry
[FOA-E-30002-E26] 23 p3744 N84-33735
BROFMAN, P. J.
On the effect of fine grain size on the M sub s temperature in Fe-27Ni-0.025C alloys
[AD-A134807] 08 p1133 N84-17366
BROGAN, J.
The detection of nonplanar surfaces in visual space
[AD-A138761] 14 p2185 N84-24093
BROGDEN, I.
Metals and ceramics research: Processing, properties, and applications
[ORNL-5943] 06 p0796 N84-15187
BROGREN, E.
Evaluation of propellant tank insulation concepts for low-thrust chemical propulsion systems
[NASA-CR-168320] 11 p1625 N84-20634
Evaluation of propellent tank insulation concepts for low-thrust chemical propulsion systems: Executive summary
[NASA-CR-168321] 11 p1636 N84-20699
BROICHHAUSEN, K. D.
Unsteady interactions in supersonic compressor stages 16 p2490 N84-25972
BROKL, S. S.
Polynomial driven time base and PN generator
04 p0519 N84-13409
Goldstone R/D high speed data acquisition system
16 p2480 N84-25899
Demodulator and accumulator for the high-speed data acquisition system 16 p2480 N84-25900
BROKMAN, A.
Simple structural unit model for core-dependent properties of symmetrical tilt boundaries
[DE83-012620] 01 p0044 N84-10284
BROMAGE, G. E.
The broad absorption line region in NGC 4151
24 p3971 N84-35146
A general survey of the correlation of interstellar element depletion with line-of-sight density indicators
24 p3973 N84-35158
Interstellar chlorine abundance: Results and implications of a large-scale survey
24 p3973 N84-35159
IUE data reduction facilities on Starlink
24 p3982 N84-35226
Phase-dependent stellar wind absorptions in interacting Wolf-Rayet binaries 24 p3982 N84-35233
BROMAN, A.
On the Kakeya problem
[CTH-MATH-1983-23] 17 p2759 N84-27520
BROMBACHER, A. C.
Tolerance analysis and related measurements on MVL-CCD's (Multiple-valued-Charge-Coupled Devices)
[AD-P002346] 14 p2191 N84-24137
BROMBERG, L.
High-field Tokamaks with DD-DT operation and tritium-breeding requirements
[DE83-013092] 02 p0296 N84-11939
BROMLEY, K.
Signal processing applications of systolic array technology (extended summary)
09 p1399 N84-19139
BRON, W. E.
Spectroscopy of thermal energy transport
[AD-A134670] 08 p1235 N84-18073
BRONDUM, D. C.
The influence of large-scale motion on turbulent transport for confined coaxial jets
11 p1610 N84-20542
BRONISZ, S. E.
Space Nuclear-Safety Program
[DE83-016351] 02 p0186 N84-11211
Space nuclear safety program
[DE83-014070] 03 p0437 N84-12869
Space nuclear safety program, April 1983
[DE84-002325] 07 p1074 N84-16978
Space nuclear safety program, May 1983
[DE84-002324] 07 p1074 N84-16979
Space nuclear safety program, June 1983
[DE84-003555] 07 p1074 N84-16980
Space Nuclear Safety Program, March 1983
[DE84-002259] 07 p1074 N84-16981
Space nuclear safety program
[DE84-003558] 12 p1904 N84-22398
Space nuclear safety program
[DE84-006693] 12 p1904 N84-22399
Space Nuclear Safety Program, September 1983
[DE84-007989] 14 p2224 N84-24344
Space nuclear safety program
[DE84-011015] 20 p3298 N84-30943
BRONNIKOVA, G. A. G. A.
Integrated evaluation of the quality of steel cable wire
[BLL-M-35267-(5828.4)] 06 p0854 N84-15564
BROOK, M.
Nighttime observations of thunderstorm electrical activity from a high altitude airplane
[NASA-TM-86455] 21 p3405 N84-31597
Mesoscale observations of lightning from Space Shuttle
[NASA-TM-86451] 22 p3598 N84-32788
Nighttime observations of thunderstorm electrical activity from a high altitude airplane
24 p3926 N84-34853
Lightning observations from the Space Shuttle
24 p3928 N84-34862
BROOKE, D. L.
Natural language processor as a universal front end to expert systems
[AD-A138455] 12 p1878 N84-22236
BROOKHART, M. S.
The chemistry of transition metal carbene complexes
[AD-A133541] 06 p0801 N84-15225
BROOKS, A. A.
User's guide for an IBM PL/I implementation of the international standard organization DIS 8211 information processing-specification for a data descriptive file for information interchange
[ORNL/CSD-TM-207] 23 p3814 N84-34188
BROOKS, A. L.
Vehicle-emission characteristics using mechanically emulsified alcohol/diesel fuels
[DE83-016012] 03 p0406 N84-12656
BROOKS, C. R.
A combined thermodynamic study of nickel-base alloys
[DE84-013467] 21 p3368 N84-31368
BROOKS, D. E.
Countercurrent distribution of biological cells
[NASA-CR-170958] 06 p0885 N84-15755
BROOKS, G. F.
Surface accuracy measurement sensor test on a 50-meter antenna surface model
[NASA-TM-85689] 07 p0992 N84-16427
BROOKS, J.
Thematic Mapper Image Processing System (TIPS) processing status 20 p3206 N84-30368
LANDSAT-4 MSS geometric correction: Methods and results 20 p3213 N84-30409
BROOKS, J. N.
Self-pumping impurity control by in-situ metal deposition
[DE83-014265] 02 p0195 N84-11265
Self-pumping impurity by in-situ metal deposition
[DE83-017937] 03 p0355 N84-12306
BROOKS, P.
Human engineering guidelines for management information systems. Change 1
[AD-A137808] 11 p1703 N84-21104
BROOKS, R.
Center of excellence in aerospace manufacturing automation
[AD-A136477] 09 p1249 N84-18155
Software psychology: The need for an interdisciplinary program
[PB84-176718] 17 p2755 N84-27486
Visual cueing effectiveness: Comparison of perception and flying performance
[AD-P003458] 21 p3510 N84-32235
BROOKS, R. A.
A subdivision algorithm in configuration space for findpath with rotation
[AD-A130565] 01 p0130 N84-10850
BROOKS, R. D.
Study of stimulated Brillouin and Raman scattering
[DE84-011260] 20 p3194 N84-30286
BROOKS, S. L.
Investigation in the application of computer-aided process-planning techniques for mechanical engineering at Bendix Kansas City
[DE84-000302] 04 p0582 N84-13842
BROOKS, T. H.
ACOSS eleven (Active Control Of Space Structures), volume 2
[AD-A135676] 09 p1273 N84-18312
ACOSS eleven (Active Control Of Space Structures), volume 1
[AD-A140025] 15 p2282 N84-24703
ACOSS eleven (Active Control Of Space Structures), volume 2
[AD-A140026] 15 p2282 N84-24704
BROOKS, W.
A helium-3 refrigerator employing capillary confinement of liquid cryogen 06 p0821 N84-15353
BROOME, P. A.
A definition of STS accommodations for attached payloads
[NASA-CR-172223] 01 p0018 N84-10114
BROOME, T. H., JR.
NASA/Howard University Large Space Structures Institute
[NASA-CR-173425] 14 p2244 N84-24476
Megamechanics research Consortium
14 p2244 N84-24477

BROOMFIELD, G. H.
High temperature and post irradiation piezoelectric properties of strontium niobate, Sr2Nb2O7
[AERE-R-11112] 18 p2820 N84-27906
B-scan displays of ultrasonic time-of-flight diffraction tests of compact tension specimens
[AERE-R-11010] 18 p2854 N84-28126
BROPHY, J. J.
Electrode noise in beta aluminas
[AD-A134837] 08 p1152 N84-17497
A stereospecific vapor detector
[AD-A139965] 15 p2337 N84-25028
BROPHY, M. C.
A study of pump cavitation damage
[NASA-CR-170992] 11 p1652 N84-20783
BROSE, H. F.
The complementary roles of existing and advanced environmental, thermal control and life support technology for space stations 10 p1443 N84-19429
BROSED, A.
Recommended values of the humidity correction factor k sub h for determining exposure in an X-ray beam with free-air chambers
[JEN-542] 04 p0593 N84-13915
BROSH, A.
An experimental investigation of the impingement of a planar shock wave on an axisymmetric body at Mach 3
[NASA-TM-84410] 09 p1312 N84-18573
BROSNAHAN, J. W.
Evidence for parallel elongated structures in the mesosphere 17 p2689 N84-27122
Chung-Li, Taiwan dual mode (Doppler and spaced antenna) VHF radar: Preliminary specifications 17 p2691 N84-27141
Design considerations for high-power VHF radar transceivers (keynote paper) 17 p2692 N84-27143
MST radar transmitter control and monitor system 17 p2693 N84-27150
Delay line and mutual coupling considerations for MST radar antenna arrays 17 p2694 N84-27157
BROSNAN, M. J.
Flight test and analyses of the B-1 structural mode control system at supersonic flight conditions
[NASA-CR-170405] 04 p0487 N84-13197
BROSNAN, S. J.
Scaling studies of efficient Raman converters
[AD-A130382] 01 p0086 N84-10560
BROSS, A.
The problem of tracking charged particles in the cores of high energy jets in a high rate environment 06 p0911 N84-15916
BROSSARD, L.
A study of the rechargeability of the Red Camel lead-acid battery between +20 deg C and -30 deg C
[AD-A137635] 11 p1646 N84-20764
BROSSIER, C.
A study of satellite radar altimeter operation over ice-covered surfaces
[ESA-CR(P)-1810] 08 p1179 N84-17683
BROST, E. J.
Competitive procurements: The synergistic linkage among government, industry and academe
[AD-P002773] 13 p2053 N84-23320
BROTE, W.
Factors influencing thermomechanical failure of face seals, 3
[AD-A138546] 13 p1997 N84-22961
BROTSKY, D. C.
An algorithm for parsing flow graphs
[AD-A142440] 20 p3273 N84-30773
BROUARD, S. E.
The use and value of Defense Technical Information Center products and services
[AD-A130805] 01 p0161 N84-11061
BROUGH, A. W. J.
Multi-detector gel permeation chromatography and its application to the analysis of industrial samples
[MQAD-808] 03 p0351 N84-12283
BROUGHTON, J. Q.
Models of rapid solidification 18 p2936 N84-28623
BROUGHTON, T.
A review of advanced manufacturing technology
[PNR-90194] 13 p1975 N84-22815
BROUILLET, A. O.
Biological life support system 10 p1444 N84-19430
BROUSAIDES, F. J.
Meteorological sensors for battlefield weather support
[AD-A132623] 05 p0709 N84-14643
BROUSE, J. A., JR.
Analysis of modern analog and digital communication channels from a manager's perspective
[AD-A143161] 21 p3387 N84-31494
BROUSSARD, J. R.
ATOPS B-737 inner-loop control system linear model construction and verification
[NASA-CR-166055] 01 p0012 N84-10078
Algorithms for output feedback, multiple-model, and decentralized control problems 11 p1617 N84-20583
Investigation and appreciation of optimal output feedback. Volume 1: A convergent algorithm for the stochastic infinite-time discrete optimal output feedback problem
[NASA-CR-3828] 21 p3344 N84-31217
Investigation, development and application of optimal output feedback theory. Volume 2: Development of an optimal, limited state feedback outer-loop digital flight control system for 3-D terminal area operation
[NASA-CR-3829] 21 p3344 N84-31218
BROUSSAUD, P.
The F2 wind tunnel at Fauga-Mauzac
[NASA-TM-77482] 19 p2969 N84-28814
BROUTMAN, L. J.
Surface embrittlement of polyethylene pipe grade resins
[PB84-181973] 17 p2627 N84-26811
BROUWER, A. E.
Local recognition of Tits' geometries of classical type
[MC-ZW-197/83] 07 p1065 N84-16910
Computation of some parameters of Lie geometries
[MC-ZW-198/83] 07 p1065 N84-16911
Two infinite sequences of near polygons
[MC-ZW-194/83] 14 p2215 N84-24302
Locally 4-by-4 grid graphs
[CWI-PM-R8401] 19 p3095 N84-29659
On the uniqueness of a regular thin near octagon on 288 vertices (or the semibiplane belonging to the Mathieu group M12)
[MC-ZW-196/83] 21 p3476 N84-32029
An infinite series of symmetric designs
[MC-ZW-202/83] 21 p3476 N84-32031
BROUWER, G.
The Giotto thermal control shutter 10 p1444 N84-19435
BROVAR, V. V.
Gravity computations at low altitudes 18 p2861 N84-28167
BROVMAN, M. Y.
Novel method of assembling large multicomponent machine sets 17 p2641 N84-26899
BROWELL, E.
An ER-2 aircraft airborne lidar as part of the development program of a spaceborne system: A potential NASA/CNES cooperative project 24 p3907 N84-34744
BROWELL, E. V.
Spaceborne lidar investigations of the atmosphere 24 p3907 N84-34743
BROWER, S. J.
Enviropod handbook: A guide to preparation and use of the Environmental Protection Agency's light-weight aerial camera system
[E84-10123] 14 p2168 N84-23982
BROWN-KERR, W.
Further studies of nearby high velocity interstellar gas 24 p3973 N84-35157
BROWN, A.
Coordinated IUE and ground-based observations of active stars: Flare events on YZ CMi, V 1005 ORI, AD Leo and AR Lac 24 p3975 N84-35177
Models for the active and quiescent regions on the RS CVN-type system 2 Pegasi (HD 224085) 24 p3978 N84-35197
BROWN, A. H.
Importance of gravity for plant growth and behavior 09 p1356 N84-18864
BROWN, A. P.
An experimental investigation of the aerodynamic effects of forward facing wedges on the upper surface and leading edge of an aerofoil, with emphasis on high angles of attack
[ARL-AERO-TECH-MEMO-356] 11 p1599 N84-20477
An experimental investigation of the aerodynamic effects of forward facing wedges on the upper surface and leading edge of an aerofoil, with emphasis at high angles of attack
[AD-A142053] 19 p2959 N84-28755
BROWN, B. R.
Productivity measurement in software engineering
[PB83-227330] 01 p0160 N84-11054
BROWN, B. S.
Spallation and 14-MeV neutron irradiation of stabilized NbTi superconductors
[DE83-017973] 03 p0368 N84-12394
BROWN, C.
Managing for success in defense systems acquisition
[AD-P002789] 13 p2056 N84-23336
BROWN, C. M.
Advanced Hough transform implementations
[AD-A132522] 04 p0589 N84-13890
Hierarchical cache accumulators for sequential mode estimation
[AD-A134698] 08 p1212 N84-17908
BROWN, C. W.
The development of advanced specimen testing and analysis techniques applied to fracture mechanics lifing of gas turbine components
[PNR-90179] 13 p1933 N84-22575
BROWN, D. A.
Numerical radiative transfer in Be disks 16 p2577 N84-26538
BROWN, D. C.
An approach to expert systems for mechanical design
[AD-A131340] 02 p0272 N84-11777
BROWN, D. K.
Research library goes online: The use of DOBIS/LIBIS at the Sandia Technical Library
[DE84-010265] 18 p2945 N84-28676
BROWN, D. L.
Numerical methods for stiff two-point boundary value problems
[AD-A136427] 09 p1375 N84-18981
BROWN, D. P.
A helium refrigerator with features for supercritical pressure cooling
[DE84-017759] 04 p0515 N84-13383
Combined cold compressor/ejector helium-refrigerator cycle
[DE83-017764] 04 p0515 N84-13385
Double beta decay: Recent developments and projections
[DE84-000476] 04 p0598 N84-13944
BROWN, D. R.
Recommendations for NASA research and development in artificial intelligence
[NASA-CR-170585] 02 p0277 N84-11817
Auger and depth profile analysis of synthetic crystals for dispersion of soft X-rays
[DE83-015257] 02 p0293 N84-11918
Artificial Intelligence-Robotics applications to Navy aircraft maintenance
[AD-A143219] 22 p3529 N84-32345
BROWN, D. W.
Reduction of tritium permeation through iron using aluminum-ion implantation
[DE84-000184] 04 p0500 N84-13279
BROWN, E.
Pressure quenched excitonic solids
[AD-A133817] 05 p0753 N84-14940
BROWN, E. N.
Pilot interaction with automated airborne decision making systems
[NASA-CR-173782] 19 p3068 N84-29464
BROWN, F.
Near millimeter wave action in n-GaAs
[AD-A138602] 13 p2042 N84-23252
BROWN, F. B.
Vectorized Monte Carlo methods for reactor lattice analysis 10 p1559 N84-20216
BROWN, G.
Where to find it. Information resource centers, A quick reference booklet
[AD-A133117] 11 p1750 N84-21419
Synthetic voice: Power system enunciation speech synthesis system
[PB84-151646] 14 p2141 N84-23838
BROWN, G. A.
Automatic audit information system for software development
[AD-P003499] 21 p3515 N84-32265
BROWN, G. F.
Age discrimination among basalt flows using digitally enhanced LANDSAT imagery
[E84-10189] 21 p3430 N84-31760
BROWN, G. J.
Network design tool for EHF satellite communications networks
[AD-A131812] 03 p0361 N84-12349
Optical and electrical characterization of multiply doped silicon: A study of the Si:(In, Al) system
[AD-A143820] 23 p3830 N84-34294
BROWN, G. M.
In-situ photoacoustic spectrometry for corrosion studies
[DE84-001994] 04 p0498 N84-13254
BROWN, G. S.
Evalution of retroreflective pavement markers for precision and nonprecision runways
[FAA-CT-82-164] 02 p0182 N84-11182
Marking and lighting of unpaved runways - inservice testing
[AD-A140958] 18 p2797 N84-27751

BROWN, G. V.
Lewis Research Center spin rig and its use in vibration analysis of rotating systems
[NASA-TP-2304] 15 p2260 N84-24578

BROWN, H.
Research in VLSI systems. Heuristic programming project and VLSI theory project. A fast turn around facility for very large scale integration (VLSI)
[AD-A134809] 08 p1151 N84-17494
Design fabrication and testing of the BNL radio frequency quadrupole accelerator
[DE84-011915] 21 p3494 N84-32145

BROWN, H. A.
Prediction of slant wind shear with an offset tower observation system
[AD-A142676] 20 p3246 N84-30600

BROWN, H. B., JR.
Dynamically stable legged locomotion
[AD-A136644] 09 p1363 N84-18905

BROWN, J. J.
Development of improved coating for advanced carbon-carbon components
[NASA-CR-173248] 07 p0967 N84-16265
Application of the kinetic energy calculation as an aid in mode identification 10 p1511 N84-19888

BROWN, J. M.
Melting of metals above 100 GPa
[DE83-015261] 01 p0046 N84-10299
Rarefaction velocities in shocked tantalum and the high-pressure melting point
[DE83-015916] 02 p0195 N84-11268

BROWN, J. W.
NASA scatterometer research data processing system: Requirements and design 23 p3781 N84-33979

BROWN, K. A.
Empirical modeling of a Lysholm helical screw expander
[DE84-013694] 22 p3564 N84-32574

BROWN, K. G.
Analysis of an effusive sampling device for analysis of boundary layer gases
[NASA-CR-174532] 01 p0120 N84-10778
Adaptive grid generation for numerical solution of partial differential equations
[AD-A136985] 10 p1570 N84-20289
Analysis of flow dynamics through small diameter gas sampling systems
[NASA-CR-175447] 11 p1728 N84-21276

BROWN, L. F.
Using chemically reactive tracers to determine temperature characteristics of geothermal reservoirs
[DE84-011373] 20 p3242 N84-30580

BROWN, L. J.
Aircraft seat fire blocking layers. Effectiveness and benefits under various scenarios
[AD-A140796] 17 p2603 N84-26681

BROWN, L. J., JR.
A laboratory test for evaluating the fire containment characteristics of aircraft class D cargo compartment lining material
[DOT/FAA/CT-83/44] 01 p0006 N84-10035
Correlation of laboratory-scale fire test methods for seat blocking layer materials with large-scale test results
[AD-A131666] 03 p0328 N84-12138

BROWN, L. L.
Analysis of polynuclear aromatic hydrocarbons in particulate matter by luminescence techniques
[PB84-181882] 21 p3363 N84-31333

BROWN, L. M.
Government acronyms and alphabetic organizational designations used in DTIC (Defense Technical Information Center)
[AD-A142700] 20 p3314 N84-31049

BROWN, L. W.
Space Shuttle separate-surface control-system study
[NASA-TP-2340] 19 p2967 N84-28801

BROWN, M. A.
Theoretical aspects of photoclinometric terrain profiling on the Galilean satellites 13 p2074 N84-23441

BROWN, M. C.
Communications biophysics 22 p3684 N84-33362

BROWN, M. D.
Methanol production by catalytic gasification of wood
[DE83-013744] 01 p0053 N84-10341
WAZP observations during MILDEX October-November 1983
[AD-A141048] 18 p2893 N84-28358

BROWN, M. G.
The identification and inversion of acoustic multipath data at long range in the ocean
[AD-P003123] 16 p2533 N84-26264

BROWN, M. M.
World and United States aviation and space records, as of June 1, 1983 01 p0001 N84-10009

BROWN, M. T.
Computer program for analysis of split-Stirling-cycle cryogenic coolers 06 p0820 N84-15344

BROWN, N. J.
Fabrication of machined optics for precision applications
[DE83-015720] 03 p0442 N84-12900
Optical measurement of SO/sub 2 in combustion environments
[DE84-002927] 09 p1342 N84-18768
Chemical treatment of silicate glasses for producing anti-reflection surfaces
[DE84-005865] 11 p1732 N84-21299
Role of abrasion in the optical polishing of metals and glass
[DE84-005737] 13 p2043 N84-23259
Spherical lapping velocities
[DE84-005734] 15 p2344 N84-25070
Laser damage in porous-silica antireflection films
[DE84-009535] 19 p3030 N84-29216
Molecular beam mass spectrometer sampling of flash ignited combustion
[DE84-006771] 22 p3548 N84-32459

BROWN, O.
South Atlantic physical oceanography study (year 5). Volume 1: Executive summary
[PB84-187855] 21 p3451 N84-31899

BROWN, P.
Quality assurance - Air Force Logistics Command
[AD-P002816] 13 p2060 N84-23361

BROWN, P. F.
Status of understanding for seal materials 15 p2343 N84-25062

BROWN, P. H. L.
Cost-effective and efficient maintenance training devices: A user accepted design process
[AD-P003456] 21 p3509 N84-32233

BROWN, P. N.
Matrix-free methods in the solution of stiff systems of ODE's
[DE84-003361] 08 p1221 N84-17974

BROWN, P. R.
Evaluation of the BCT (Basic Cadet Training) paraprofessional counselor training at the United States Air Force Academy
[AD-P003244] 18 p2903 N84-28411

BROWN, R.
Direct-contact high-temperature thermal energy storage heat exchanger
[DE84-000012] 12 p1816 N84-21839
Missile system for low altitude air defence 21 p3351 N84-31255

BROWN, R. A.
Reflectance measurements, part 2 06 p0928 N84-16028
Single Doppler velocity signatures: An Atlas of patterns in clean air/widespread precipitation and convective storms
[PB84-155779] 14 p2181 N84-24063
Multiple buoyancy driven flows in a vertical cylinder heated from below
[NASA-CR-173626] 17 p2666 N84-27001
Scatterometer capabilities in remotely sensing geophysical parameters over the ocean: The status and the possibilities 17 p2712 N84-27268
Radial segregation induced by natural convection and melt/solid interface shape in vertical Bridgman growth
[NASA-CR-173627] 17 p2767 N84-27571
Mathematical modelling of high-speed ribbbon systems: A case study of edge-defined film-fed growth 18 p2938 N84-28632

BROWN, R. D.
Evaluation of a non-catalytic coating for metallic TPS
[NASA-TM-85745] 07 p0974 N84-16312

BROWN, R. E.
Pulse driver for flux gate magnetometer
[AD-D011053] 22 p3596 N84-32774

BROWN, R. F.
Effect of radiofrequency radiation on DNA duplex stability and replication
[AD-A133526] 07 p1042 N84-16759
Effects of radiofrequency radiation on differentiation of erythroleukemic cells
[AD-A143038] 21 p3453 N84-31914
Improved monogroove heat pipe design: Insulated liquid channel with bridging wick
[NASA-CASE-MSC-20497-1] 24 p3899 N84-34692

BROWN, R. H.
Strength of anchor bolts in masonry
[PB84-111160] 09 p1297 N84-18479
Finite element model to compute stresses in composite masonry due to creep, shrinkage and temperature
[PB84-152578] 14 p2159 N84-23933

BROWN, R. L.
METLIB-2: A program library for calculating and plotting atmospheric and oceanic fields
[PB84-205434] 21 p3450 N84-31890

BROWN, R. M.
A new derivation for the rough surface reflection coefficient and for the distribution of sea wave elevations
[AD-A134774] 08 p1145 N84-17453
PAME Proceedings, Pattern Analysis in the Marine Environment, An Ocean Science and Technology Workshop
[AD-A140195] 16 p2532 N84-26257
Brookhaven National Laboratory Coastal Meteorology Program, 1972-1983
[DE84-008584] 18 p2891 N84-28349

BROWN, R. S.
Coupling between velocity oscillations and solid propellant combustion 13 p1944 N84-22643

BROWN, R. V.
Tactical decision aids which quantify judgment
[AD-P002889] 13 p1979 N84-22850

BROWN, R. W.
Weak corrections to the e+e-yields mu+mu-asymmetry
[DO-TH-83-16] 20 p3297 N84-30939

BROWN, S. C.
A flight-test and simulation evaluation of the longitudinal final approach and landing performance of an automatic system for a light wing loading STOL aircraft equipped with wing spoilers
[NASA-TM-85873] 22 p3537 N84-32393

BROWN, S. M.
Scale model testing for control system parameters of large structures
[AD-A135652] 09 p1273 N84-18313
MEXAMS (Metals exposure analysis modeling system)
[PB84-157155] 12 p1799 N84-21736

BROWN, S. T.
The salt-gradient solar pond
[AD-A126702] 06 p0873 N84-15683
A study of pollutant dispersal in a 2-dimensional field including gravity effects
[AD-A144295] 24 p3900 N84-34699

BROWN, T.
X-ray streak crystal spectrography
[DE83-015618] 02 p0225 N84-11473
Tropical cyclone sea-state probability model development and application
[AD-A142212] 19 p3059 N84-29407
Rain rate climatologies over marine regions
[AD-A144066] 23 p3802 N84-34109

BROWN, T. G.
Simultaneous thermal vacuum testing of GPS drives for NavStar 24 p3862 N84-34473

BROWN, W. G.
Component development
[DE84-005829] 11 p1634 N84-20681

BROWN, W. K.
A new method for generating and maintaining rigid formats in NASTRAN 06 p0860 N84-15605
The design and usage of the new data management features in NASTRAN 22 p3609 N84-32866
COSMIC/NASTRAN on the Cray computer systems 22 p3609 N84-32868

BROWN, W. S.
Commercialization of opportunities for materials processing in low gravity
[NASA-CR-170953] 06 p0793 N84-15185

BROWNE, G. T.
US Navy corrosion control maintenance 16 p2435 N84-25619

BROWNE, M. J.
New control system for the SLAC accelerator klystrons for SLC
[DE83-012706] 01 p0073 N84-10480

BROWNER, R. F.
Inorganic analysis in a controlled ecological life support system
[NASA-CR-173299] 08 p1204 N84-17852

BROWNING, D. G.
Sound propagation through a moderate coastal upwelling: Comparison of modeling prediction with experimental data
[AD-A133782] 05 p0742 N84-14876

BROWNLEE, D. E.
The chemistry of micrometeoroids (A0187-1) 15 p2276 N84-24669

BROWNLIE, I. G.
Static analysis package
[REPT-71.3794] 12 p1884 N84-22283

BRUBAKER, D. I.
Theory of acoustic speckle 21 p3490 N84-32114

BRUCA, L.
Emission lines in the UV spectrum of alpha Tau 24 p3974 N84-35168

BRUCE, M. H.
Atmosphere temperature profile recovery using partial interferometry
[AD-A144196] 24 p3919 N84-34810
BRUCE, S. S.
Assessing the credibility of the calorific value of municipal solid waste
[PB84-175470] 16 p2474 N84-25861
BRUCK, G. J.
A parametric study of surface transformation hardening with high-power lasers
[AD-A140160] 16 p2497 N84-26023
BRUDNER, H.
Tornado Wind Energy Conversion System (TWECS) evaluation program
[PB83-227207] 01 p0103 N84-10669
BRUDZYNSKI, R. J.
Energy partitioning to product translation in the infrared multiphoton dissociation of diethyl ether
[AD-A131555] 02 p0226 N84-11482
BRUEDERLE, E.
Magnetic roll/yaw attitude control of a momentum biased near polar orbit satellite
[MBB-UR-629-83-O] 16 p2561 N84-26432
BRUEGGEMANN, E. E.
Nitroguanidine wastewater pollution control technology: Phase 2 wastewater characterization and analytical methods development for organics
[AD-A141176] 18 p2811 N84-27844
BRUEGMANN, J.
Windpowered generators. Test field Pellworm. The test of the Aeroman system
[GKSS-83-E-15] 02 p0243 N84-11589
Wind energy test field Pellworm: Tests of the plant Bruemmer BW 120S
[GKSS-83-E-42] 13 p2010 N84-23035
BRUENING, G.
Gust alleviation 02 p0181 N84-11180
BRUGIA, O.
Analysis of a network structure for algorithm testing
[FUB-1-1983] 05 p0732 N84-14804
BRULAND, K. W.
Studies of the voltammetric determination of trace metals in seawater
[AD-A131164] 02 p0190 N84-11233
BRUM, R. D.
Evaluation of a candidate model complex flow combustor using instantaneous two-color laser anemometry 10 p1458 N84-19521
BRUMFIELD, M. L.
STEP Experiment Requirements
[NASA-CP-2294] 08 p1109 N84-17211
BRUMWELL, F.
Performance of the intense pulsed neutron source accelerator system
[DE84-003607] 07 p1072 N84-16966
BRUN, E.
The NMR laser: A nonlinear solid state system showing chaos 14 p2239 N84-24440
BRUN, M. Y.
Electron microscope study of processes of polygonization and recrystallization in alpha-phase of two-phase (alpha + beta)-titanium alloys with plate structure 23 p3708 N84-33507
BRUN, T. O.
Lattice dynamics of the mixed-conducting intermetallic compound alpha-LiAl
[DE83-014334] 05 p0756 N84-14959
BRUNDAGE, W. E.
Raman measurements of the mobile cation vibrations in Na, K, Ag and Li (ALPHA)'-alumina
[DE83-015697] 06 p0924 N84-16005
Hydration of (BETA)-prime-prime-alumina
[DE83-015696] 07 p1083 N84-17041
BRUNDERMAN, J.
Pilot oriented performance measurement
[AD-P003450] 21 p3508 N84-32227
Visual cueing effectiveness: Comparison of perception and flying performance
[AD-P003458] 21 p3510 N84-32235
BRUNDICK, F. S.
A combinatorial geometry computer description of the M48A1 Chaparral missile system
[AD-A137262] 11 p1622 N84-20615
BRUNDIDGE, G. L.
Applications of multivariate statistical techniques for computer performance evaluation
[AD-A138268] 12 p1894 N84-22336
BRUNDIDGE, K. C.
Investigation of the arc cloud complex 06 p0928 N84-16029
BRUNDIGE, W. N.
Combustion of high-aluminum-content propellants 13 p1947 N84-22661
BRUNEL, F.
Loop coalescence in flares and coronal X-ray brightening
[DE83-013070] 04 p0621 N84-14099
Computer modeling of fast collisionless reconnection
[DE84-006714] 14 p2229 N84-24367
BRUNELLE, J. E.
Care 3: Hands-on demonstration and tutorial
[NASA-TM-85811] 17 p2749 N84-27448
BRUNELLO
System concepts for helicopter air-to-air combat
[SNIAS-832-210-102] 16 p2448 N84-25705
BRUNER, T. S.
MAGNA (Materially And Geometrically Nonlinear Analysis). Part 2: Preprocessor manual
[AD-A129025] 01 p0120 N84-10782
BRUNFELDT, D.
Radar remote sensing for crop classification and canopy condition assessment: Ground-data documentation
[E84-10020] 01 p0099 N84-10643
BRUNFELDT, D. R.
The effect of row direction on the microwave emission from vegetation canopies 23 p3767 N84-33877
BRUNING, D. H.
Limb darkening variations 17 p2779 N84-27645
BRUNISH, W. M.
Role of the radiation pressure gradient in giant and supergiant star evolution
[DE84-001715] 05 p0763 N84-15007
Comparisons between observational color-magnitude diagrams and synthetic cluster diagrams for young star clusters in the Magellanic Clouds
[DE84-001870] 07 p1089 N84-17085
The analysis of solar models: Neutrinos and oscillations
[NASA-CR-173628] 17 p2780 N84-27652
BRUNK, H. D.
Bayes least squares linear regression is asymptotically full Bayes: Estimation of spectral densities
[AD-A138351] 12 p1897 N84-22352
BRUNO, F. M.
Manufacturing Methods and Technology (MM and T) specifications for miniature cathode ray tube
[AD-A131042] 01 p0072 N84-10468
Manufacturing Methods and Technology (MM and T) specifications for miniature cathode ray tube
[AD-A132797] 05 p0675 N84-14439
BRUNO, R.
Description of the general utility graphic routines of the HP 1000 F IFSI
[IFSI-83-15] 18 p2922 N84-28534
Evidence for long period Alfven waves in the inner solar system
[IFSI-84-9] 18 p2953 N84-28719
BRUNS, R. J.
Turbine engine lubricant reclamation
[AD-A135926] 09 p1288 N84-18410
BRUNSMANN, U.
Research and development on high sensitivity infrared detectors, phase 3, VQM
[BMFT-FB-W-83-032] 12 p1909 N84-22436
Development of a transimpedance amplifier for cryotemperatures, study
[BMFT-FB-W-84-023] 21 p3407 N84-31610
BRUSCAGLIONI, P.
Effect of multiple scattering on the propagation of light beams in dense nonhomogeneous media 15 p2325 N84-24959
BRUSIUS, P. G.
Fine line electromigration. The effect of crossed thermal gradients
[AD-A138854] 13 p2046 N84-23279
BRUSVEN, M. A.
In-stream distribution and hydraulic and ecological effects of volcanic ash from Mount St. Helens eruption
[PB84-169382] 20 p3230 N84-30526
BRYAN, G. H.
Vitrification of highly-loaded SDS zeolites
[DE83-006198] 02 p0292 N84-11915
BRYAN, J. L.
Human behavior 04 p0511 N84-13352
The MGM Grand Hotel fire: A case study of human reaction to fire 04 p0512 N84-13358
Project People 2: An extended interview study of behavior response patterns in health care facility fire incidents 04 p0512 N84-13359
BRYAN, R. A.
Intermediate-energy nuclear theory
[DE84-012971] 22 p3654 N84-33161
BRYAN, S. K.
Reanalysis methods for structures with laser induced damage
[AD-A135874] 09 p1322 N84-18638
BRYANT, C.
Discrete charge diagnostics on Pre-DIRECT COURSE
[AD-A139073] 13 p1990 N84-22919
BRYANT, D. A.
The Active Magnetospheric Particle Tracer Explorers (AMPTE) program 05 p0641 N84-14216
BRYANT, J. A.
Performance of the Lester battery charger in electric vehicles
[NASA-CR-173726] 18 p2833 N84-27982
BRYANT, L. E., JR.
Survey of flash X-ray techniques and applications
[DE83-017234] 03 p0442 N84-12904
High-speed videography combined with an x-ray image intensifier for dynamic radiography
[DE83-017233] 03 p0442 N84-12905
High-speed videography for optical and X-ray imaging
[DE84-002272] 05 p0748 N84-14910
BRYANT, N. A.
Evaluation of LANDSAT-4 TM and MSS ground geometry performance without ground control
[E84-10022] 01 p0099 N84-10644
The Pennsylvania defoliation application pilot test
[E84-10111] 13 p2004 N84-23004
An analysis LANDSAT-4 Thematic Mapper geometric properties 20 p3210 N84-30392
BRYANT, P. J.
Optimization of wind turbine design for SWECS
[DE84-009759] 19 p3051 N84-29363
Passive yaw damping of a teetered rotor versus delta-3 angle values
[DE84-009758] 20 p3236 N84-30545
Operation and calibration of the Wincharger 450 model SWECS
[DE84-009757] 20 p3237 N84-30546
BRYANT, W. A.
Data management for Computer-Aided Engineering (CAE) 12 p1890 N84-22306
BRYANT, W. H.
Flight test validation of a design procedure for digital autopilots 03 p0312 N84-12036
Advanced symbology for general aviation approach to landing displays 03 p0313 N84-12039
BRYLINSKI, J. L.
Kato's class field theory and abelian coverings of surfaces 14 p2210 N84-24266
BRYNE, P. B.
Rotational modulation of spots and plages on RSCVn stars 24 p3978 N84-35196
BRYUKHOVETSKIY, A. G.
Assessment of the functional state of the heart muscle in aircrew members by means by bicycle ergometry 08 p1199 N84-17815
BRYUKHOVETSKY, A. S.
The time-spatial structure of microwave radio fields on line-of-sight overwater paths
[REPT-220] 17 p2651 N84-26955
BRZEZINSKIM, J.
Resolution of singularities of integral quadratic forms
[CTH-MATH-1983-22] 17 p2761 N84-27538
BRZOSKO, J. S.
Plasma focus evolution in time as seen from its neutron, gamma and X ray activities 10 p1582 N84-20365
BSCHORR, O.
Quality control and sample comparison by differential modal analysis
[MBB-BB-543-83-OE] 03 p0386 N84-12514
Noise reduction of automobile tires
[MBB-BB-539-83-OE] 05 p0687 N84-14517
Simulation procedure for the calculation of aircraft noise 19 p3100 N84-29692
BUBLITZ, P.
Measurement of unsteady aerodynamic pressures
[DFVLR-MITT-83-08] 07 p0949 N84-16155
Measurement of unsteady aerodynamic pressures
[ESA-TT-834] 19 p2959 N84-28757
BUCCIARELLI, M. A.
A cost based acquisition planning model utilizing expert system concepts
[AD-P002783] 13 p2055 N84-23330
BUCCIARELLI, T.
A radar signal processor implemented with surface acoustic waves devices 08 p0907 N84-15889
BUCH, A.
Fatigue crack propagation in Al-alloy lugs under constant amplitude and maneuver spectrum loading
[TAE-497] 06 p0857 N84-15585
BUCHALTER, M. S.
Bulk acoustic resonator tracking filter
[AD-D011159] 23 p3821 N84-34233
BUCHAN, G. M.
Electrical-shock prevention. Volume 3: Fault protection for motion-drive equipment
[PB84-102961] 08 p1206 N84-17867

BUCHAN, S. M.
Integrated Application of Active Controls (IAAC) technology to an advanced subsonic transport project: Current and advanced act control system definition study, volume 1
[NASA-CR-165631-VOL-1] 19 p2967 N84-28802
Integrated Application of Active Controls (IAAC) technology to an advanced subsonic transport project: Current and advanced act control system definition study. Volume 2: Appendices
[NASA-CR-165631-VOL-2] 19 p2967 N84-28803
BUCHANAN, G. M.
Karnovsky-osmium as a primary fixative for electron microscopy
[AD-A142671] 20 p3300 N84-30957
BUCHANAN, H. J.
IPACS guidance navigation and control system considerations and test activities
03 p0346 N84-12245
BUCHANAN, J. W.
Atmospheric volatile hydrocarbon composition at five remote sites in Northwestern North Carolina
[PB84-177930] 17 p2620 N84-26768
BUCHANAN, R. C.
Role of Al-2O-3 in sintering of submicron yttria-stabilized ZrO-2 powders
[AD-A136798] 10 p1460 N84-19533
BUCHANAN, T. D.
Captive trajectory system test planning information for AEDC supersonic wind tunnel (A) and hypersonic wind tunnels (B) and (C)
[AD-A136439] 09 p1259 N84-18217
BUCHAU, J.
Real-time in-situ targeting of geoplasma domains for purposes of chemical injection and artificial triggering of equatorial spread-F 05 p0639 N84-14208
F-layer ionization patches in the polar cap
[AD-A138633] 13 p2011 N84-23044
BUCHENAUER, C. J.
Acoustically compensated two-wavelength interferometry for plasma density measurements: One-dimensional theory and applications
[DE84-007983] 14 p2229 N84-24368
BUCHHEIT, R. D.
Metallurgical investigation of a cracked low-pressure stem-turbine shaft from an electric utility
[DE83-902304] 01 p0045 N84-10292
BUCHHOLZ, S.
Testing of candidate batteries for global positioning system 23 p3736 N84-33677
High rate discharge studies of Li/SO2 batteries
23 p3737 N84-33680
BUCHMANN, J.
Influence of extratropical heteorological phenomenon on the northeast Brazilian climate: A study using finite elements
[INPE-2912-PRE/425] 13 p2016 N84-23072
Transient convection over the Amazon/Bolivia region and the dynamics of drought over northeast Brazil
[INPE-3226-PRE/577] 24 p3922 N84-34823
A synoptic study of the influence of extra-tropical latitude systems on the climatic variability in northeast Brazil
[INPE-3225-PRE/576] 24 p3922 N84-34824
A study of the influence of extra-tropical latitude systems on the climatic variability in Northeast Brazil
[INPE-3264-PRE/595] 24 p3922 N84-34825
BUCHOLC, K.
A method of test generation for verification of wiring correctness
[AD-P002376] 14 p2195 N84-24167
BUCHROEDER, R. A.
An optical analysis of the Farrand VCASS (Visually Coupled Airborne Systems Simulator) helmet-mounted display
[AD-A136649] 10 p1430 N84-19350
BUCHWALD, M. I.
A novel 15.9-micron source
[DE83-015234] 02 p0227 N84-11490
BUCHWALTER, H.
Canonic measurements in the classic moment problem 22 p3635 N84-33041
BUCINELL, R.
A 3-dimensional finite element analysis of delamination growth in composite laminates. Part 1: The energy methods and case-study problems
[AD-A141248] 18 p2810 N84-27838
BUCK, J. T.
Isolated-word speech recognition using multi-section vector quantization code books
[AD-A144433] 24 p3895 N84-34665
BUCK, J. W.
Large HAWT (Horizontal-Axis Wind Turbine) wake measurement and analysis
[DE84-013269] 22 p3596 N84-32772
BUCK, O.
Simulation of closure: Effects on crack detection probability and stress distributions
[DE83-009309] 01 p0097 N84-10633
Life prediction under stress corrosion conditions below K sub ISCC
[DE83-018074] 03 p0355 N84-12307
Inference of fatigue-crack closure stresses from ultrasonic-transmission measurements
[DE83-017684] 03 p0390 N84-12547
Effects of crack closure on ultrasonic transmission
[DE83-018073] 04 p0546 N84-13599
Detection of closed internal fatigue cracks
[DE83-017686] 04 p0549 N84-13620
Ductile-brittle transition temperature measurement of temper embrittled Ni-Cr steels by means of small punch tests
[DE84-012833] 20 p3158 N84-30054
Crack initiation model for stress corrosion cracking alpha-brass
[DE84-012837] 21 p3423 N84-31712
BUCK, R. F.
Switchable 10-bit PCM decoder
[AD-A130461] 01 p0070 N84-10459
BUCKANIN, R. M.
Preliminary airworthiness evaluation of the UH-60A configured with the External Stores Support System (ESSS)
[AD-A132964] 05 p0630 N84-14139
BUCKEY, J. C.
Cardiac chamber volumes by echocardiography using a new mathematical method: A promising technique for zero-G use 09 p1358 N84-18874
BUCKHAM, R. C.
Compilation of selected faults and lineaments that may be relevant to a study of seismic activity in southern Nevada and part of adjacent California
[DE83-017085] 03 p0409 N84-12673
BUCKINGHAM, A. C.
Modeled heating and surface erosion comparing motile (gas borne) and stationary (surface coating inert particle additives
[DE83-000597] 01 p0080 N84-10521
Erosive particle kinematics in the turbulent combustion boundary layer contacting a solid wall
[DE83-010594] 03 p0349 N84-12272
Numerical simulations of compliant material response to turbulent flow
[DE84-004365] 11 p1654 N84-20800
Turbulent boundary layer thermochemical attack on coated walls
[DE84-005892] 12 p1817 N84-21843
Fundamental mechanisms of multi-phase flow erosion/corrosion of solid surfaces
[AD-A143041] 21 p3366 N84-31355
BUCKINGHAM, J. C.
Revision and experimental verification of the hazard assessment computer system models for spreading, movement, dissolution, and dissipation of insoluble chemicals spilled onto water, volume 1
[AD-A140635] 17 p2724 N84-27337
BUCKIUS, R. O.
Surface ignition and heterogeneous catalysis of hydrocarbon fuels
[AD-A138214] 12 p1792 N84-21686
BUCKLEY, D. H.
Size scale effect in cavitation erosion
[NASA-TM-83533] 02 p0193 N84-11254
Solid impingement erosion mechanisms and characterization of erosion resistance of ductile metals
[NASA-TM-83492] 03 p0352 N84-12287
Measurement of rolling friction by a damped oscillator
[NASA-TP-2257] 04 p0543 N84-13577
Particulate erosion mechanisms
[NASA-TM-83551] 05 p0652 N84-14289
Friction and morphology of magnetic tapes in sliding contact with nickel-zinc ferrite
[NASA-TP-2267] 07 p0977 N84-16334
Metallic glass as a temperature sensor during ion plating
[NASA-TM-83566] 08 p1130 N84-17351
Tribological characteristics of gold films deposited on metals by ion plating and vapor deposition
[NASA-TM-83572] 08 p1130 N84-17352
Water-vapor effects on friction of magnetic tape in contact with nickel-zinc ferrite
[NASA-TP-2279] 09 p1286 N84-18399
Mechanism of lubrication by tricresylphosphate (TCP)
[NASA-TP-2274] 09 p1324 N84-18653
Ceramic wear in indentation and sliding
[NASA-TM-83585] 10 p1465 N84-19566
Mechanical contact induced transformation from the amorphous to the crystalline state in metallic glass
[NASA-TM-83583] 11 p1632 N84-20673
Friction and wear of iron in sulfuric acid
[NASA-TP-2289] 12 p1796 N84-21716
Friction and wear of nickel in sulfuric acid
[NASA-TP-2290] 12 p1797 N84-21721
Characterization and measurement of polymer wear
[NASA-TM-83628] 12 p1800 N84-21739
Importance and definition of materials in tribology. Status of understanding 14 p2152 N84-23893
Considerations in friction and wear
14 p2154 N84-23903
Interaction of sulfuric acid corrosion and mechanical wear of iron
[NASA-TM-83717] 18 p2813 N84-27857
Erosion of iron-chromium alloys by glass particles
[NASA-TP-2354] 19 p2993 N84-28965
Properties of ferrites important to their friction and wear behavior
[NASA-TM-83718] 19 p2997 N84-28994
Effects of water-vapor on friction and deformation of polymeric magnetic media in contact with a ceramic oxide
[NASA-TM-83727] 20 p3161 N84-30072
Empirical relations for cavitation and liquid impingement erosion processes
[NASA-TP-2339] 21 p3365 N84-31349
Adhesion between polymers and evaporated gold and nickel films
[NASA-TP-2360] 21 p3369 N84-31379
Microstructure and surface chemistry of amorphous alloys important to their friction and wear behavior
[NASA-TM-83762] 22 p3555 N84-32508
Characterization of erosion of metallic materials under cavitation attack in a mineral oil
[NASA-TP-2368] 22 p3603 N84-32825
Friction behavior of silicon in contact with titanium, nickel, silver and copper
[NASA-TP-2362] 23 p3723 N84-33590
The role of material properties in adhesion
[NASA-TM-83792] 24 p3888 N84-34619
BUCKLEY, E. C.
Technology review of flight crucial flight controls
[NASA-CR-172332] 13 p1934 N84-22583
BUCKLEY, T. J.
Assessing the credibility of the calorific value of municipal solid waste
[PB84-175470] 16 p2474 N84-25861
BUCKMAN, S. J.
Electron excitation of vibrational states of D2 and H2 and detection of excited states by laser-induced fluorescence
[AD-A141038] 18 p2846 N84-28070
BUCKMAN, T.
CW (Continuous Wave) antenna design and testing
[AD-A131291] 02 p0210 N84-11389
BUCZEK, M. B.
CLFE2D: A generalized plane strain finite element program laminated composites subject to mechanical and hygrothermal loading
[NASA-CR-173507] 14 p2157 N84-23921
Free edge strain concentrations in real composite laminates: Experimental-theoretical correlation
[NASA-CR-173818] 19 p2986 N84-28919
BUDAI, J. M.
Diagensis and deformation of the Madison Group, Colorado and Utah overthrust belt
22 p3620 N84-32938
BUDBERG, P. B.
Electrochemical behavior of amorphous titanium-based alloy after various annealing conditions
24 p3875 N84-34555
BUDEN, D.
Space reactors: Past, present and future
[DE83-011177] 03 p0437 N84-12870
Space reactors: What is a kilogram?
[DE84-012656] 22 p3655 N84-33169
BUDKIN, L. A.
Source of optical pumping for high-resolution spectroscopy with semiconductor laser
21 p3482 N84-32070
BUDNICK, J. I.
Density of occupied d states in transition metal-metalloid metallic glasses
[DE84-001206] 04 p0503 N84-13298
EXAFS study of Metglas 2605 CO
[DE84-001203] 04 p0503 N84-13299
BUDNIK, E. Y.
Observations of He+ ions in the solar wind
[KGI-PREPRINT-064] 15 p2428 N84-25585
BUDTSEV, V. Y.
System for recording and input to computer of one-dimensional images of dim objects and high-speed processes 24 p3941 N84-34951
BUDYKO, M.
Inevitable climatic changes 20 p3223 N84-30480
BUDZINSKI, E. E.
The ISPM cosmic-ray and solar-particle investigation
09 p1262 N84-18236

BUECKER, H.
Free-flyer biostack experiment
15 p2277 N84-24674
Biophysics space research 17 p2745 N84-27426
BUEGE, L. L.
Proceedings, Seminar on Probabilistic Methods in Geotechnical Engineering
[AD-A136497] 09 p1345 N84-18786
BUEHLER, F.
Interstellar-gas experiment (A0038)
15 p2275 N84-24660
BUEHLER, M. G.
Product assurance technology for procuring reliable, custom LSI/VLSI electronics
[NASA-CR-173405] 12 p1812 N84-21810
BUELL, R. H.
The DFVLR contrast transmittance model SCOTRAN-program system: Description and operating instruction
[DFVLR-FB-84-18] 20 p3243 N84-30589
BUENNAGEL, L. A.
Satellite Emission Range Inferred Earth Survey (SERIES) project
[NASA-CR-173726] 18 p2791 N84-27714
BUETTNER, H. M.
The behavior of very large short pulse antennas
[DE84-012372] 21 p3388 N84-31500
BUFFET, P.
Sharing command languages and software
11 p1751 N84-21428
BUFFINGTON, A.
Research in particles and fields
[NASA-CR-173928] 23 p3845 N84-34392
BUGAICHUK, N. T.
Magnetic properties of interstitial phases in vanadium-oxygen system
[BLL-M-35386] 09 p1393 N84-19095
BUGAT, R.
Variations in states of alertness during continuous operations at the control post level
11 p1697 N84-21068
BUGAYEV, A. A.
Metal-semiconductor phase transition and its application
[BLL-DRIC-T-7149-(3623.66)] 19 p3109 N84-29757
BUGAYEV, B.
Mininster Bugayev promises improved Aeroflot services 01 p0001 N84-10002
BUGAYEV, G.
Flight operation manual for the MI-8 helicopter
[AD-A143860] 23 p3693 N84-33407
BUGEAT
Industrialization of emitters modules, part 2
[SEP-TS/SE/BT/10457/83-PT-2]
16 p2475 N84-25866
BUGNON, F. J.
Hierarchial command, control and coupled bilinear systems
[AD-A142401] 20 p3280 N84-30823
BUGUET, A.
Variations in states of alertness during continuous operations at the control post level
11 p1697 N84-21068
BUHRMAN, J.
Future requirements for airborne simulation
[AGARD-AR-188] 22 p3538 N84-32401
BUHTZ, R.
The graphical kernel system: Concepts and realization in Common Graphical Manager (CGM)
07 p1018 N84-16605
BUI, T. N.
On bisecting random graphs
[AD-A132500] 04 p0589 N84-13892
BUIS, J.
The effect of spatial, spectral and radiometric factors on classification accuracy using thematic mapper data
[NASA-TM-85995] 20 p3227 N84-30510
The effect of spatial, spectral and radiometric factors on classification accuracy using Thematic Mapper data
23 p3766 N84-33872
BUISSON, J. A.
Frequency stability analysis of GPS (Global Positioning System) NAVSTARs 3 and 4 rubidium clocks and the NAVSTARs 5 and 6 cesium clocks
[AD-A137376] 10 p1425 N84-19318
BUIVAN, A.
Telescope calibration for gamma spectroscopy with a new Ge(Li) diode configuration
[INPE-2985-PRE/407] 04 p0619 N84-14083
BUIVAN, N. A.
PULSAR: A balloon-borne experiment to detect variable low energy gamma-ray
[INPE-2950-PRE/433] 07 p1093 N84-17108
BUKOVICH, I. V.
The flow of an electrorheological suspension in cells of different geometries
[RAE-TRANS-2111] 11 p1646 N84-20760
BULAKH, G. I.
Alternating acoustoelectric current generated by interaction of two waves in acoustic microwaveguide
21 p3380 N84-31449
BULANOV, S. V.
Resonance and edge amplification of an electric field in a plasma resonance layer and acceleration of particles at plasma inhomogeneities 21 p3483 N84-32073
BULAT, S. A.
Genetic study of plasmid integration in yeast chromosomes. Report 1: Effect of integration of episomal plasmid in meiotic crossover in chromosome 3
23 p3806 N84-34131
Genetic study of plasmid integration in yeast chromosomes. Report 2: Analysis of irregular meiotic segregation 23 p3806 N84-34132
BULBOACA, M. A.
Spacecraft servicing demonstration plan
[NASA-CR-171132] 21 p3351 N84-31258
BULGAKOV, B. M.
Stable asynchronous two-frequency oscillations in Gunn-effect diode with open resonator structure
22 p3570 N84-32611
BULGAKOV, M. V.
Numerical solution of a generalized model of weld pool solidification
[NRC/CNR-TT-2076] 07 p1012 N84-16564
BULGHER, D. L.
Initial experimental results from a laboratory size beam plasma discharge device 05 p0638 N84-14198
BULICZ, T.
Advanced onboard storage concepts for natural gas-fueled automotive vehicles
[NASA-CR-174655] 23 p3790 N84-34036
BULL, D. A.
Investigation of the RF properties of carbon fibre composite materials
[AD-A140261] 16 p2461 N84-25774
BULL, J. S.
Development and flight test of a helicopter compact, portable, precision landing system concept
[NASA-TM-85851] 15 p2259 N84-24566
BULLER, B. W.
Advanced strain-isolation-pad material with bonded fibrous construction
[NASA-CR-166599] 23 p3723 N84-33592
BULLER, U.
Chemical utilization of the olefinic byproducts in pyrolysis naphtha by carbonylation and alkylation reaction
[BMFT-FB-T-84-064] 19 p2985 N84-28914
BULLITT, M. K.
A computer code to calculate emission and transmission of infrared radiation through non-equilibrium atmospheres
[AD-A137162] 11 p1683 N84-20980
BULLOCK, K.
Effect of antimony on lead-acid battery negative electrode
[DE83-014680] 03 p0369 N84-12404
BULLOUGH, R. K.
Optical extinction theorem theory of optical multi-stability bifurcations and turbulence in the Fabry-Perot interferometer 14 p2239 N84-24442
Optical bistability from the Dicke model
14 p2239 N84-24443
BULMASH, G.
Experimental and computational modeling of rarefaction wave eliminators suitable for the BRL 2.44 m shock tube
[AD-A131894] 03 p0338 N84-12194
BULTEL, J.
Value and competition
[SNIAS-832-501-101] 15 p2416 N84-25504
BULUYEV, A. B.
Changes in arterial pressure in static work as function of time of day and degree of disturbance in Earth's magnetic field 21 p3456 N84-31930
BUNCLARK, P. S.
Internal calibration of astronomical photographs
09 p1411 N84-19230
The automated photographic measuring facility at Cambridge 18 p2842 N84-28043
BUNDAS, D. J.
Flutter and forced response of mistuned rotors using standing wave analysis
[NASA-CR-173555] 15 p2262 N84-24586
BUNDY, T. R.
Hexagonal data base study
[AD-A135532] 08 p1212 N84-17907
BUNEMAN, O. P.
C-3I local area networks: An assessment
[AD-A134194] 07 p0992 N84-16431
C3I (Command, Control, Communications and Intelligence) information systems internetwork study
[AD-A144271] 24 p3942 N84-34958
BUNEMANN, D.
The neutron induced embrittlement of reactor pressure vessel steels and ferritic alloys
[AD-B080746] 15 p2295 N84-24770
BUNGE, H. J.
Development of the texture and plastic anisotropy in steels upon hot rolling, transformation and cold rolling
[BMFT-FB-T-83-219] 10 p1463 N84-19559
BUNIMOVICH, A. I.
Aerodynamic and thermal characteristics of 3-dimensional stellate bodies in rarefied gas
17 p2644 N84-26915
BUNIN, B. L.
Optimized bolted joint
[NASA-CASE-LAR-13250-1] 11 p1664 N84-20859
BUNINB, P. G.
Computation of inviscid transonic flow using flux vector splitting in generalized coordinates
21 p3323 N84-31087
BUNING, P. G.
Viscous computation of a space shuttle flow field
[NASA-TM-85977] 20 p3183 N84-30225
BUNK, P. B.
Preliminary experiments with an electro-osmotic heat pipe laboratory model
[AD-B081344] 15 p2332 N84-25004
BUNK, W.
Metallurgy: Development of material recovery
16 p2465 N84-25795
BUNKER, B. C.
Gel structures in leached alkali silicate glass
[DE84-009928] 18 p2819 N84-27899
Ampule tests to simulate glass corrosion in ambient temperature lithium batteries, volume 2
[DE84-014330] 22 p3589 N84-32732
BUNKIN, F. V.
Speckle statistics in radar images of sea surface obtained with horizontal polarization
18 p2823 N84-27921
BUNNER, A. N.
Optical coating in space
[NASA-CR-175441] 11 p1731 N84-21290
BUNNIK, N. J. J.
Hot spot reflectance measurements applied to green biomass estimation and crop growth monitoring
[NLR-MP-83037-U] 17 p2721 N84-27323
BUNTING, J. T.
Evaluation of automated imagery analysis algorithms for use in the three-dimensional nephanalysis model at AFGWC (Air Force Global Weather Central)
[AD-A131986] 03 p0410 N84-12686
BUNTING, R. K.
Molten salt electrochemical systems
[AD-A135108] 08 p1124 N84-17304
BUNZL, K.
Report on measurements of terrestrial radiation in the Schwandorf area and the radiological load of the river Naab
[GSF-A-6/83] 16 p2520 N84-26180
BUONAQUISTI, A. D.
Magnetron sputtered gold contacts on n-GaAs
09 p1393 N84-19098
BUONI, J. J.
Ada (trademark) tasking in numerical analysis
[AD-P003429] 20 p3271 N84-30761
BUONTEMPO, M. E.
First, second and third Herstmonceux catalogues of stars for 1950.0
[BULL-189] 08 p1243 N84-18125
BURA, S. T.
Pastes of superhard materials (review of inventions)
[CSIR-TRANS-1741] 22 p3552 N84-32491
BURATTI, B.
Photometric properties of Europa and the icy satellites of Saturn 11 p1756 N84-21465
Photometry of icy satellites: How important is multiple scattering in diluting shadows?
13 p2073 N84-23438
Comparison of Hapke's photometric theory with Voyager observations of Europa, Enceladus, Rhea and Mimas
13 p2074 N84-23439
BURATTI, P.
Development of a spacecraft infrared test technique as an alternative to solar simulation: First steps on L-SAT thermal model 10 p1439 N84-19398
BURATYNSKI, E. K.
A lower-upper factored implicit scheme for the numerical solution of the Euler equations applied to arbitrary cascades 06 p0780 N84-15111
BURAVTSOV, V. I.
Immediate effects of hyperbaric oxygenation on body oxygen supply 21 p3455 N84-31923

BURBECK, C. A.
Spatiotemporal characteristics of visual localization
[AD-A133952] 06 p0888 N84-15770
BURCAT, A.
Ignition delay times of propene oxygen argon mixtures
[AD-A130464] 01 p0037 N84-10232
BURCH, H. E.
Water resources data for Colorado, water year 1982. Volume 3: Dolores River Basin, Green River Basin, and San Juan River Basin
[PB84-120146] 09 p1339 N84-18743
BURCH, J.
Measured versus predicted performance of the SERI test house: A validation study 16 p2513 N84-26128
BURCH, J. L.
Low frequency electric and magnetic noise along the auroral field lines
[NASA-CR-173641] 17 p2727 N84-27358
BURCH, R. E.
An FET full-bridge switcher for inductorless capacitor charging for Nova
[DE83-018005] 04 p0528 N84-13471
BURCHAM, F. W., JR.
Comparison of flight results with digital simulation for a digital electronic engine control in an F-15 airplane
[NASA-TM-84903] 05 p0630 N84-14144
Highly integrated digital engine control system on an F-15 airplane
[NASA-TM-86040] 15 p2262 N84-24587
Preliminary flight test results of the F100 EMD engine in an F-15 airplane
[NASA-TM-85902] 15 p2262 N84-24588
Preliminary flight evaluation of F100 engine model derivative airstart capability in an F-15 airplane
[NASA-TM-86031] 19 p2965 N84-28792
Effect of control logic modifications on airstart performance of F100 engine model derivative engines in an F-15 airplane
[NASA-TM-85900] 20 p3130 N84-29879
Propulsion control experience used in the Highly Integrated Digital Electronic Control (HIDEC) program
[NASA-TM-85914] 23 p3695 N84-33415
BURCHELL, D. J., JR.
Deformation studies of polymers by Fourier transform infrared spectroscopy 13 p1962 N84-22751
BURCHER, E. E.
Surface accuracy measurement sensor test on a 50-meter antenna surface model
[NASA-TM-85689] 07 p0992 N84-16427
BURCHETT, S. N.
Stress production and relief in the gold/silicon eutectic die-attach process
[DE83-015230] 03 p0369 N84-12400
BURCHILL, P. J.
Service-life induced failure of bird impact resistant windshields
[AD-P003195] 17 p2591 N84-26608
BURDAK, A. A.
Processing the results of fatigue testing of structural materials damaged by corrosion
24 p3873 N84-34541
BURDICK, R. B.
Modal parameter estimation via shaker versus speaker excitation
[DE84-012897] 21 p3345 N84-31223
BUREK, A. J.
Development of a focussing-crystal spectrograph for X-rays from laser-fusion targets
[DE83-012802] 01 p0148 N84-10973
BURENKO, L.
Tokamak plasma position dynamics and feedback control
[DE84-004424] 10 p1586 N84-20393
BURENKOV, V. I.
Variability of vertical distributions of sea water temperature and light extinction index in section across Mascarene Ridge 18 p2857 N84-28142
BURFORD, M.
CADAS: A computer aided design tool for avionic systems 06 p0773 N84-15065
BURGER, D. R.
Getting the current out 12 p1838 N84-21986
BURGER, J. A.
Uranium anomalies in Wyoming and parts of adjacent states. National Uranium Resource Evaluation
[DE83-005353] 06 p0866 N84-15638
BURGER, M.
Coordinated X-ray, ultraviolet, optical, and infrared observations of the transient source A0535+26
24 p3981 N84-35219
BURGER, U.
Control and supervision of nut fastening by means of a microcomputer
[BMFT-FB-T-84-106] 23 p3757 N84-33818
BURGERS, P.
Dynamic kinking and bifurcation of cracks in plane strain
[AD-P003113] 16 p2468 N84-25818
BURGESS, J. H.
Impurity and defect interactions in GaAs
[AD-A139592] 14 p2243 N84-24465
BURGGRAF, L. W.
United States Air Force Academy, Department of Chemistry research: AY 1982-83
[AD-A141015] 18 p2808 N84-27828
BURGGRAF, O. R.
Interacting boundary-layer solutions for laminar separated flow past airfoils
[NASA-CR-172287] 07 p0946 N84-16140
BURGHARDT, W. F.
The interactive effects of morphine and ionizing radiation on the latency of tail-withdrawal from warm water in the rat
[AD-P003251] 18 p2904 N84-28418
BURGHART, J. H.
Optimization methods applied to hybrid vehicle design
[NASA-CR-168292] 09 p1406 N84-19185
BURGTORF, W.
Frequency selected and amplitude limited personal noise protectors
[BMFT-FB-HA-84-016] 18 p2915 N84-28488
BURIEZ, J. C.
The NEPHOS program: Preliminary results
10 p1536 N84-20061
BURITZ, R. S.
Development of a generator stator insulation system
[AD-A130376] 01 p0070 N84-10455
BURK, H. O.
Enhancement of the CAVE computer code
[NASA-CR-3731] 04 p0532 N84-13501
BURKE, B. F.
Mission definition study for a VLBI station utilizing the Space Shuttle
[NASA-CR-175126] 06 p0794 N84-15173
Radio astronomy 22 p3683 N84-33349
BURKE, E.
Cronus: A distributed operating system
[AD-A139588] 14 p2209 N84-24260
CRONUS: A distributed operating system
[AD-A139983] 15 p2388 N84-25328
BURKE, G. J.
Numerical modeling techniques for half-space (ground) problems 03 p0365 N84-12374
Numerical electromagnetics code. Method of moments. User's guide supplement for NEC-3 for modeling buried wires
[DE84-002195] 06 p0825 N84-15382
Computer assessment of electromagnetic means of detecting approaching cruise missile
[DE84-005115] 10 p1482 N84-19687
Modeling antennas near to and penetrating a lossy interface
[DE84-004785] 12 p1808 N84-21786
Performance of Beverage antennas at low angles
[DE84-011163] 20 p3175 N84-30164
BURKE, H. K.
Improved charge injection device and a focal plane interface electronics board for stellar tracking
[NASA-CR-171066] 19 p3012 N84-29092
BURKE, K.
Is the Kapuskasing structure the site of a cryptic suture 11 p1678 N84-20949
Activities at the Lunar and Planetary Institute
[NASA-CR-173528] 14 p2166 N84-23974
BURKE, K. A.
Static feed water electrolysis subsystem testing and component development
[NASA-CR-166539] 08 p1205 N84-17856
BURKE, P. M.
Water resources data for New York, water year 1982. Volume 1: Eastern New York excluding Long Island
[PB84-114198] 09 p1339 N84-18744
BURKE, R. J.
Fusion materials irradiation test facility test-cell instrumentation
[DE83-012823] 01 p0085 N84-10552
BURKE, T. F.
Monolithic amplifier
[AD-D011075] 19 p3017 N84-29129
BURKE, W. J.
Environmental interactions of polar orbiting satellites
[AD-P002110] 16 p2523 N84-26196
BURKE, W. L.
Spectrophotometry of 2 complete samples of flat radio spectrum quasars
[NASA-CR-175343] 07 p1088 N84-17077
BURKE, W. R.
Spacecraft Vibration Testing Using Multi-Axis Hydraulic Vibration Systems
[ESA-SP-197] 03 p0339 N84-12197
Active experiments in space
[ESA-SP-195] 05 p0634 N84-14172
Remote sensing: New satellite systems and potential applications
[ESA-SP-205] 08 p1174 N84-17650
Introduction to geostationary orbits
[ESA-SP-1053] 12 p1776 N84-21590
Report on the activities of the Space Science Department
[ESA-SP-1062] 17 p2774 N84-27611
Report presented by the European Space Agency to the 25th COSPAR meeting
[ESA-SP-1061] 19 p2979 N84-28885
European Space Tribology Laboratory: Facilities, services, capabilities
[ESA-BR-12] 20 p3199 N84-30317
BURKERT, R.
System feasibility study on rendezvous and docking in transfer orbit, volume 1
[PV6-13/82-VOL-1] 12 p1776 N84-21588
System feasibility study on rendezvous and docking in transfer orbit, volume 2
[PRV6-13/82] 12 p1776 N84-21589
Detailed system studies on rendezvous and docking
[ERNO-RX-015-2/83] 23 p3697 N84-33427
BURKES, J. P.
Petrographic examination of Bell Canyon Tests (BCT) 1-FF field grouts over a 3-year period
[DE83-018226] 04 p0555 N84-13654
BURKETT, S. D.
Laboratory robotics at the Savannah River Laboratory
[DE84-001760] 06 p0894 N84-15810
BURKHARDT, L. C.
Precisely aligned internal magnetic probes for the reversed-field pinch experiment, ZT-40
[DE84-003704] 08 p1233 N84-18058
Observations of ramped current operation in ZT-40M
[DE84-015076] 23 p3829 N84-34286
BURKIN, S. P.
Mechanical properties of Mn-Al-C system alloys
[BLL-M-35432] 09 p1280 N84-18362
BURKS, H. D.
Polyphenylene ethers with imide linking groups
[NASA-CASE-LAR-12980-1] 13 p1962 N84-22749
Melt-flow-toughness modified polyimide
[NASA-CASE-LAR-13135-1] 24 p3887 N84-34618
BURKS, J. W.
Buried antenna analysis at VHF. Part 1: The buried horizontal electric dipole
[AD-A138068] 12 p1806 N84-21774
BURLAGA, L. F.
Scale lengths in quasi-parallel shocks
[NASA-TM-85109] 03 p0407 N84-12663
Radial variations of large-scale magnetohydrodynamic fluctuations in the solar wind
[NASA-TM-85116] 03 p0463 N84-13045
Power spectral signatures of interplanetary corotating and transient flows
[NASA-TM-86051] 08 p1244 N84-18131
Interplanetary flow systems associated with cosmic ray modulation in 1977 - 1980
[NASA-TM-85120] 08 p1246 N84-18149
Coalescence of two pressure waves associated with stream interactions
[NASA-TM-86120] 16 p2581 N84-26554
Large-scale interplanetary magnetic fields: Voyager 1 and 2 observations between 1 AU and 9.5 AU
[NASA-TM-86086] 18 p2952 N84-28712
MHD processes in the outer heliosphere
[NASA-TM-86137] 23 p3845 N84-34391
BURLAK, G. N.
Parametric excitation of transverse acoustic slot waves in solids by means of microwave electric field
21 p3478 N84-32045
BURLAND, D. M.
The development of a new class of holographic materials
[AD-A140298] 16 p2496 N84-26017
BURLATSKYAT, S. P.
Motion of virtual geomagnetic pole
18 p2862 N84-28173
BURLESHIN, M. I.
Sensing of factors involved in development of exogenous processes on space photographs of arid territories 19 p2977 N84-28870
BURLEY, N. A.
The nicrosil versus nisil type N thermocouple: A commercial reality
[MRL-R-903] 16 p2495 N84-26005
BURLEY, R. R.
Experimental investigation of tangential blowing applied to a subsonic V/STOL inlet
[NASA-TP-2297] 11 p1602 N84-20493
BURLINGAME, P. J.
Monolithic integrated antenna systems
[AD-A143184] 22 p3586 N84-32708

BURLITCH, J. M.
Thin film synthesis of superconducting chemical compounds
[AD-A142541] 20 p3148 N84-29992
BURMASOV, V. S.
Production of dense plasma column in strong magnetic fields and its diagnosis by laser methods 21 p3488 N84-32104
BURMESTER, H. G.
Turning of hardened ferrous materials with homogeneous CBN tool tips
[CSIR-TRANS-1728] 21 p3375 N84-31418
BURMESTER, H. J.
Turning of hardened ferrous materials with homogeneous CBN tool tips
[CSIR-TRANS-1728] 21 p3375 N84-31418
BURMIN, V. Y.
Algorithm for determining coordinates of hypocenters of near earthquakes and seismic wave propagation velocity in layer 17 p2706 N84-27235
BURNA, R. F.
Effects of preheat on weldments of NICOP steel
[AD-A137145] 10 p1458 N84-19524
BURNER, A. W.
Video model deformation system for the National Transonic Facility
[NAS 1.15:85681] 02 p0222 N84-11457
BURNETT, D. S.
Microprobe analyses of rare-earth-element fractionation in meteoritic minerals
[DE83-017326] 04 p0621 N84-14097
BURNETT, J.
Safety recommendation(s) A-84-10 and -11 16 p2444 N84-25676
Safety recommendation(s) A-84-16 16 p2444 N84-25679
BURNETT, L. J.
Development and demonstration of a spiral-wound thin-film composite membrane system for the economical production of oxygen-enriched air, phases 1, 2 and 3
[DE84-002918] 07 p0972 N84-16296
BURNETT, M.
Residual shale-oil/diesel-engine operating compatibility program
[DE84-000133] 04 p0545 N84-13587
BURNETT, R. A.
Management and display of data analysis environments for large data sets
[DE84-001414] 04 p0616 N84-14069
BURNHAM, D. C.
Evaluation of visibility sensors at the Eglin Air Force Base climatic chamber
[AD-A135375] 08 p1190 N84-17758
Specification of the transmitted signal of the OMEGA navigation system
[AD-A137673] 11 p1605 N84-20509
AWOS (Automatic Weather Observing System) sensor evaluation. Transmissometer, forward-scatter meter and lidar ceilometer
[AD-A138743] 13 p2017 N84-23074
BURNHAM, J.
Some comments on the hazards associated with manoeuvring flight in severe turbulence at high speed and low altitude 06 p0776 N84-15089
BURNS, B. A.
Remote sensing of the marginal ice zone during Marginal Ice Zone Experiment (MIZEX) 83 23 p3772 N84-33910
SAR measurement of sea ice properties during Marginal Ice Zone Experiment (MIZEX) 83 23 p3772 N84-33911
Analysis of bistatic SAR signatures 23 p3777 N84-33947
BURNS, D. A.
Hydrographic measurements in the western Arlboran Sea, October 1982
[AD-A143588] 22 p3627 N84-32985
BURNS, E. J. T.
Using inner-shell X-rays as an ion-beam diagnostic
[DE83-017784] 03 p0436 N84-12857
Applied-B ion diode experiments on PBFA 1
[DE83-017792] 03 p0447 N84-12942
Diagnosing the ion beam on the applied-B diode
[DE83-017822] 03 p0447 N84-12943
BURNS, F. B.
In-situ permeation tests of elastomeric O-ring seals
[DE83-015622] 03 p0356 N84-12318
BURNS, G. S.
Land cover change monitoring within the east central Louisiana study site: A case for large area surveys with LANDSAT multispectral scanner data
[E84-10031] 02 p0236 N84-11562
BURNS, J. A.
The puzzling dynamics of Saturn's F-ring 19 p3119 N84-29827
BURNS, J. E.
Calculations of repeatability
[NPL-RS(EXT)-69] 12 p1896 N84-22347
BURNS, J. R.
A new silicon-on-sapphire MIL-STD-1750A microprocessor
[AD-P003551] 21 p3334 N84-31155
BURNS, J. T.
Piezometer probe technology for geotechnical investigations in coastal and deep-ocean environments
[AD-P002689] 11 p1659 N84-20824
BURNS, K. C.
Motion sickness incidence: Distribution of time to first emesis and comparison of some complex motion conditions
[AD-A131930] 04 p0573 N84-13772
Comparison of Rhesus monkey and baboon -G sub x acceleration experiments
[AD-A141395] 19 p3063 N84-29436
BURNS, M. A.
A comparative study of linear array synthesis technique using a personal computer
[AD-A141444] 19 p3076 N84-29515
A comparative study of linear array synthesis technique using a personal computer
[AD-P003500] 21 p3383 N84-31468
BURNS, M. L.
Pair production rates in mildly relativistic, magnetized plasmas
[NASA-TM-86103] 15 p2405 N84-25434
BURNS, P.
Parameter estimation and infiltration tests at the repeat facility 16 p2514 N84-26136
BURNS, R. E.
The accelerated light model technique of store separation as developed and used at British Aerospace, Brough 14 p2099 N84-23597
Evaluation of 95 gpm inductors for aqueous film forming foam
[AD-A141242] 18 p2818 N84-27894
BURNS, R. J.
An experimental investigation of the effect of boundary layer refraction on the noise from a high-speed propeller
[NASA-TM-83764] 23 p3821 N84-34230
BURNS, S. J.
Fracture toughness processes
[DE84-007244] 13 p2002 N84-22989
BURNS, T. J.
Approximate linear stability analysis of a model of adiabatic shear-band formation
[DE84-001918] 05 p0656 N84-14316
BURNS, W. C.
Environmental qualification tests, signal conditioning unit, SD802 materials experiment
[AD-A138910] 13 p1987 N84-22897
Certification vibration tests, SD802 materials experiment
[AD-A138547] 13 p2001 N84-22982
BURNS, W. K.
Analog fiber gyro with extended linear range
[AD-D011009] 19 p2962 N84-28771
Fiber optic rotation-sensing gyroscope with (3x2) coupler
[AD-D011195] 24 p3902 N84-34706
BURNSIDE, B. L.
Training feedback handbook
[AD-A132565] 05 p0715 N84-14683
BURNSIDE, W. D.
General 3rd Airborne antenna radiation pattern code users manual
[AD-A130359] 01 p0121 N84-10790
Radiation patterns of an antenna mounted on the off-mid section of an ellipsoid
[AD-A130956] 02 p0209 N84-11362
Radiation patterns of an antenna mounted on the mid-section of an ellipsoid
[AD-A133203] 06 p0823 N84-15365
BURNY, F.
Evaluation of the gravity relevance on bone stresses by in vivo measurements 23 p3808 N84-34148
BURNYASHEV, I. I.
Fracture resistance of hardened and tempered pipes of 16GFR steel
[BLL-M-35268-(5828.4)] 06 p0857 N84-15584
BUROV, A. A.
Non-integrability of planar oscillation equation for satellite in elliptical orbit 21 p3489 N84-32109
BUROV, I. S.
Thermal characteristics of plasma reactors with cylindrical and conical multijet mixing chambers 13 p1970 N84-22788
BURR, R. G.
Health risks associated with aircraft model type among US Navy pilots
[AD-P003270] 18 p2907 N84-28435
BURRELL, J. P.
Source header list, supplement 1
[AD-A131800] 03 p0459 N84-13024
Source header list, supplement 2
[AD-A143800] 23 p3835 N84-34325
BURRELL, K. H.
High power neutral beam heating on Doublet 3
[DE84-012471] 21 p3501 N84-32186
BURRIJ, S.
Open and closed loop steering in a lane change maneuver
[IZF-1983-22] 12 p1867 N84-22167
BURROWS, D. N.
Limits on soft X-ray flux from distant emission regions
[NASA-CR-173591] 16 p2582 N84-26558
BURROWS, E. P.
Nitroguanidine wastewater pollution control technology: Phase 2 wastewater characterization and analytical methods development for organics
[AD-A141176] 18 p2811 N84-27844
BURROWS, G. H.
Presynaptic elements involved in the maintenance of the neuromuscular junction 09 p1358 N84-18875
BURROWS, J. R.
The ISPM cosmic-ray and solar-particle investigation 09 p1262 N84-18236
BURROWS, L. T.
Army helicopter crashworthiness 06 p0777 N84-15090
BURROWS, M. L.
Channel tracking errors and the adaptive multiple-beam antenna
[AD-A134596] 07 p0994 N84-16443
Design of microwave beam-switching networks
[AD-A137240] 10 p1478 N84-19661
BURROWS, T. W.
An annotated bibliography covering generation and use of evaluated cross section uncertainty files
[BNL-NCS-51684] 16 p2566 N84-26465
BURROWS, W. G.
Distortion of a narrow radio beam in a convective medium 15 p2326 N84-24966
BURRUS, D. L.
Aerothermal modeling. Executive summary
[NASA-CR-168330] 06 p0790 N84-15152
Aerothermal modeling, phase 1. Volume 1: Model assessment
[NASA-CR-168296-VOL-1] 06 p0790 N84-15155
Aerothermal modeling, phase 1. Volume 2: Experimental data
[NASA-CR-168296-VOL-2] 06 p0790 N84-15156
BURSE, R. L.
The influence of cardiorespiratory fitness on the decrement in maximal aerobic power at high altitude
[AD-A142218] 19 p3066 N84-29452
BURSH, T. P.
Circuit transmission integrity of plenum cables in a developing fire scenario 11 p1726 N84-21262
BURSTADT, P. L.
Flow visualization and interpretation of visualization data for deflected thrust V/STOL nozzles
[NASA-TM-83554] 05 p0631 N84-14147
BURT, R. H.
Aerodynamic and Propulsion Test Unit (APTU) performance with a vitiated air heater 20 p3144 N84-29964
BURTON, D. K.
Isolated-word speech recognition using multi-section vector quantization code books
[AD-A144433] 24 p3895 N84-34665
BURTON, L. C.
Leakage currents in degraded multi-layer ceramic capacitors
[AD-A140157] 17 p2662 N84-26985
Intrinsic mechanisms of multi-layer ceramic capacitor failure
[AD-A141050] 18 p2834 N84-27988
BURTON, M.
Weather pattern climatology of the US
[DE84-005883] 11 p1688 N84-21011
BURTON, R. L.
Investigation of a pulsed electrothermal thruster
[NASA-CR-168266] 03 p0343 N84-12227
Research and development of a plasma jet mass accelerator as a driver for impact fusion
[DE84-012940] 22 p3659 N84-33198
BURTON, W. C.
Thiazine dyes for use in photogalvanic cells
[DE84-009097] 15 p2330 N84-24990
BURTON, W. M.
Analysis of hydroxyl data from comet Austin 1982g 24 p3981 N84-35223

BURTON, W. S.
On the implications for LEFM (Linear elastic fracture Mechanics) of the 3-dimensional aspects in some crack/surface intersection problems
[AD-A134227] 07 p1016 N84-16592
Some inherently 3-dimensional problems in linear elastic fracture mechanics 23 p3759 N84-33828

BURY, J. R.
Development of flame retardant, low aggressivity cables 11 p1723 N84-21239

BURYAK, V. A.
Evaluation of characteristics of system of space-time processing of signals by statistical simulation method 17 p2633 N84-26845

BURYANOV, V. B.
Structure and direction of evolution of European tectonosphere according to geological and geophysical data 17 p2706 N84-27233

BURYLEV, B. P.
Study of intermetallic compounds in ternary systems Al-Ba-Nd and Al-Ba-Yb
[BLL-M-35387-(5628.4)] 08 p1129 N84-17343

BUS, J. C. P.
The infinite horizon optimal control problem on manifolds
[MC-BW-181/83] 07 p1058 N84-16851

BUSBY, K. O.
A Cerenkov-Raman maser
[AD-A139275] 14 p2150 N84-23883

BUSCH, G.
Experiments and theory on half-harmonic light and 2-plasmon decay
[DE84-008945] 20 p3193 N84-30276

BUSCH, G. E.
Singlet oxygen generator for a solar powered chemically pumped iodine laser
[NASA-CR-172364] 19 p2982 N84-28899
Holographic interferometry using 20-picosecond UV pulses to obtain time resolved hydro measurements of selenium and gold plasmas
[DE84-009485] 20 p3191 N84-30269

BUSCH, J. R.
Luneburg lens and optical matrix algebra research
[NASA-CR-172276] 08 p1231 N84-18047

BUSH, A. M.
Volterra transfer functions from pulse tests for mildly nonlinear channels
[AD-A135703] 09 p1308 N84-18553

BUSH, B. D.
S-band range tracker and Surveillance Lab interface
[AD-A134730] 08 p1145 N84-17451

BUSH, C. E.
Experimental results on finite-beta limits and transport in the ISX-B Tokamak
[DE84-000258] 04 p0606 N84-14001
Preionization and start-up in the ISX-B Tokamak using electron cyclotron heating at 28 GHz
[DE84-002261] 06 p0920 N84-15984

BUSH, D. M.
Testing of sealed lead-acid batteries
[DE84-008209] 14 p2141 N84-23840

BUSH, G.
Design of an orbital heating simulator using IR techniques 24 p3864 N84-34487

BUSH, H. G.
Stability, vibration and passive damping of partially restrained imperfect columns
[NASA-TM-85697] 04 p0548 N84-13608
Synchronously deployable truss structure
[NASA-CASE-LAR-13117-1] 07 p0964 N84-16250
A manned-machine space station construction concept
[NASA-TM-85762] 10 p1439 N84-19395
Dynamic characteristics of a space-station solar wing array
[NASA-TM-85780] 16 p2458 N84-25758
Conceptual design of a mobile remote manipulator system 19 p2982 N84-28894
Preliminary space station solar array structural design study 19 p3047 N84-29335

BUSH, J. R., JR.
A high voltage electrical power system for low Earth orbit applications
[NASA-TM-86453] 21 p3390 N84-31511

BUSHAW, B. A.
Atomic-beam density determination from laser-induced fluorescence interval distributions
[DE84-000677] 04 p0542 N84-13571

BUSHBY, H.
Determination of thermal-degradation rates of some candidate Rankine-cycle organic working fluids for conversion of industrial waste heat into power
[DE84-009585] 20 p3197 N84-30304

BUSHMAN, J. F.
Development of soft X-ray streak cameras at Lawrence Livermore National Laboratory
[DE83-015841] 10 p1499 N84-19797

BUSHMANOV, S. B.
Planning of plates reinforced with equally stressed fibers of constant cross section 24 p3872 N84-34540

BUSHNELL, D. M.
Powder fed sheared dispersal particle generator
[NASA-CASE-LAR-12785-1] 07 p1011 N84-16561

BUSKIRK, F. R.
Cerenkov radiation from bunched electron beams, revised
[AD-A137533] 11 p1729 N84-21280
Diffraction effects in Cerenkov radiation
[AD-A137540] 11 p1729 N84-21281
Measurement of LINAC bunch parameters using the Cerenkov effect
[AD-A143128] 21 p3493 N84-32136
Radiation from intense electron beams associated with the Cherenkov mechanism
[AD-A143350] 22 p3577 N84-32657
Time development of Cerenkov radiation
[AD-A143225] 22 p3653 N84-33155

BUSNAINA, A. A.
Transient three-dimensional predictions of turbulent flows in cylindrical and cartesian coordinate systems 13 p1991 N84-22927

BUSS, R. J.
Energy partitioning to product translation in the infrared multiphoton dissociation of diethyl ether
[AD-A131555] 02 p0226 N84-11482

BUSSE, C. A.
Two-dimensional vapor flow analysis in heat pipes
[DE84-012581] 21 p3402 N84-31582

BUSSE, L. J.
An acoustical imaging system for the inspection of solid rocket motors
[AD-A139482] 14 p2156 N84-23918

BUSSE, W.
Reduction of the strut radiation of reflector antennas
[FI-454-TBR-35] 16 p2482 N84-25918

BUSSO, M.
A study of the wake-like distortions in the light curves of RS CVN stars by means of time analysis 09 p1409 N84-19213

BUSSOLETTI, J. E.
Specification for a Program for an Interative Aeroelastic Solution (PIAS)
[NASA-CR-172200] 04 p0479 N84-13153
PAN AIR: A computer program for predicting subsonic or supersonic linear potential flows about arbitrary configurations using a high order panel method. Volume 2: User's manual (version 1.1)
[NASA-CR-3252] 18 p2788 N84-27698
PAN AIR: A computer program for predicting subsonic or supersonic linear potential flows about arbitrary configurations using a higher order panel method. Volume 4: Maintenance document (version 1.1)
[NASA-CR-3254] 23 p3690 N84-33388

BUSSOLINO, L.
Design and manufacturing of a heat rejection system for advanced thermal control 10 p1444 N84-19434
Heat rejection system technology demonstration model
[TD-RP-AI-004] 23 p3701 N84-33459

BUSTAMENTE, S. W.
Molecular ion photofragment spectroscopy
[DE84-003299] 10 p1577 N84-20333

BUTCHER, A. G.
A summary of the mechanisms of delayed detonation 13 p1947 N84-22658

BUTCHER, B. M.
Method for defining the distribution of triaxial stress states in underground structures
[DE84-010591] 20 p3202 N84-30342

BUTCHER, P. S.
The flight test of an automatic spin prevention system 24 p3847 N84-34398

BUTERA, M. K.
A correlation analysis of percent canopy closure versus TMS spectral response for selected forest sites in the San Juan National Forest, Colorado
[E84-10066] 06 p0865 N84-15635
An analysis of the effect of biological and physical parameters of a wetlands grass biome on the spectral modeling of phytomass and primary productivity 23 p3769 N84-33891

BUTLER, A. J.
Peaceful use and self defense in outer space
[AD-P002155] 14 p2138 N84-23820

BUTLER, C.
Development and operation of a real-time data acquisition system for the NASA, Langley Research Center Differential Absorption Lidar
[NASA-CR-173397] 12 p1918 N84-22495

BUTLER, C. J.
IUE observations of BY Draconis 24 p3975 N84-35176
Coordinated IUE and ground-based observations of active stars: Flare events on YZ CMi, V 1005 ORI, AD Leo and AR Lac 24 p3975 N84-35177
Rotational modulation of spots and plages on RSCVn stars 24 p3978 N84-35196
Models for the active and quiescent regions on the RS CVN-type system 2 Pegasi (HD 224085) 24 p3978 N84-35197

BUTLER, C. M.
An experimental study of cylindrical antennas radiating in or near a lossy half space
[AD-A138206] 12 p1807 N84-21779
An analysis of the coax-fed monopole in a general medium
[AD-A137981] 12 p1811 N84-21805

BUTLER, D. M.
Solar Terrestrial Physics: Present and Future
[NASA-RP-1120] 23 p3836 N84-34332

BUTLER, J. L.
Guide to reporting time in the financial information system at ANL
[DE84-009356] 15 p2419 N84-25524

BUTLER, J. T.
On the number of locations required in the content-addressable memory implementation of multiple-varied functions
[AD-P002338] 14 p2190 N84-24129
Tabular methods for the design of CCD (Charge-Coupled Devices) multiple-valued circuits
[AD-P002347] 14 p2192 N84-24138
Relations among system diagnosis models with 3-valued test outcomes
[AD-P002374] 14 p2195 N84-24165

BUTLER, L. C.
Degradation of jet fuel hydrocarbons by aquatic microbial communities
[AD-A139791] 15 p2304 N84-24822

BUTLER, L. J.
Energy partitioning to product translation in the infrared multiphoton dissociation of diethyl ether
[AD-A131555] 02 p0226 N84-11482

BUTLER, L. V.
Protective telescoping shield for solar concentrator
[NASA-CASE-NPO-16236-1] 15 p2361 N84-25164

BUTLER, M. C. J.
Aircrew Gliding Escape System (AGES) exploratory development investigation of aircrew emergency escape ram-air inflated, flexible wing
[AD-A139928] 15 p2258 N84-24565

BUTLER, N.
Hydrolytic degradation of Kevlar 49 fibers
[DE84-004158] 13 p1954 N84-22705

BUTLER, P. B.
Deflagration to shock to detonation transition of energetic propellants
[AD-A144469] 24 p3890 N84-34632

BUTLER, P. C.
Zinc/bromine prototype-batteries evaluation
[DE83-011861] 01 p0072 N84-10473
Review of flow battery testing at Sandia
[DE84-011186] 22 p3589 N84-32734

BUTLER, R.
Evaluation of the HARDMAN comparability methodology for manpower, personnel and training
[NASA-CR-173733] 18 p2915 N84-28485

BUTLER, R. S.
VHF and UHF propagation in the Canadian high Arctic 15 p2326 N84-24969

BUTLER, R. W.
The semi-Markov unreliability range evaluator program
[NASA-TM-86261] 19 p3093 N84-29640
Validation of a fault-tolerant clock synchronization system
[NASA-TP-2346] 23 p3816 N84-34198

BUTLER, T. A.
Nuclear-medicine
[DE84-000346] 04 p0571 N84-13759

BUTLER, T. G.
Bolt in bore boundaries 06 p0861 N84-15608
Design spectrum analysis in NASTRAN 22 p3609 N84-32870
Seismic analysis capability in NASTRAN 22 p3610 N84-32871

BUTLER, T. R.
Architectural and control considerations for a high speed signal processor implemented with an Ada (Trademark) executive
[AD-P003594] 21 p3341 N84-31199

BUTLER, T. W.
High Reynolds number tests of a Boeing BAC I airfoil in the Langley 0.3-meter transonic cryogenic tunnel
[NASA-TM-81922] 18 p2786 N84-27684

BUTLER, W. E., JR.
After-test engine inspection of US Army administrative and light-tactical vehicles operated on gasohol and unleaded gasoline
[AD-A137312] 10 p1502 N84-19817
BUTLIN, J. M.
CCRS proposal for evaluating LANDSAT-4 MSS and TM data
[E84-10096] 10 p1522 N84-19966
BUTLIN, T.
Revised radiometric calibration technique for LANDSAT-4 Thematic Mapper data by the Canada Centre for Remote Sensing 10 p1522 N84-19967
Revised radiometric calibration technique for LANDSAT-4 Thematic Mapper data 10 p1522 N84-19968
Revised radiometric calibration technique for LANDSAT-4 Thematic Mapper data by the Canada Centre for Remote Sensing 20 p3208 N84-30378
BUTNER, C. L.
Optical multiple sample vacuum integrating sphere
[NASA-CASE-GSC-12849-1] 06 p0917 N84-15960
BUTTER, U.
Tornado autopilot measures to ensure survivability after failures 06 p0777 N84-15094
BUTTERFIELD, A. J.
Technology evaluation of man-rated acceleration test equipment for vestibular research
[NASA-CR-172160] 04 p0574 N84-13781
BUTTERFIELD, D. M.
A multigrid finite element method 23 p3818 N84-34213
BUTTERWORTH, J. R.
Increasing spares competition in AFLC (Air Force Logistics Center)
[AD-P002775] 13 p2054 N84-23322
BUTTERY, P. J.
Large diameter optical slip-rings
[WSRL-0342-TM] 24 p3963 N84-35095
BUTTON, B. L.
A diagnostic technique for improving combustor performance 19 p2967 N84-28800
BUTTON, J. W.
Evaluation of fabric interlayers
[PB83-253245] 05 p0664 N84-14363
BUTTON, K. J.
Precise measurement of refractive index and absorption coefficient of near millimeter wave and far infrared materials
[AD-A138656] 13 p2043 N84-23253
Impurity and defect characterization in epitaxial GaAs InP and the ternary and quaternary compound semiconductors
[AD-A143551] 22 p3664 N84-33225
BUTTRAM, M. T.
High-average-power rep rate systems
[DE83-013769] 03 p0366 N84-12385
Transmission lines for pulsed power applications
[DE84-002754] 05 p0676 N84-14446
Dielectric breakdown distributions of large dielectric constant liquids
[DE84-013216] 22 p3548 N84-32461
BUURMA, L. S.
Increasing birdstrike rates and improved birdstrike analysis of the Royal Netherlands Air Force
[AD-P003216] 17 p2594 N84-26629
BUVAYLO, L. Y.
Simulation of vibratory processes in damped structures with temperature-frequency characteristics of vibration absorbing materials taken into account 21 p3478 N84-32046
BUVET, R.
New polyconjugated oxidation-reduction polymers, as well as a method and apparatus for electrochemical regeneration
[DE84-002813] 06 p0810 N84-15276
BUXBAUM, O.
Comparison of fatigue life prediction based on local strains and nominal stresses respectively
[LBF-FB-169(183)] 10 p1518 N84-19937
BUZAN, F.
Application of active and passive suspension techniques to improve high speed ground vehicle performance
[PB83-224576] 01 p0164 N84-11076
BUZBEE, B. L.
Draft remarks for the IFIPS Congress 1983 panel on how to obtain high performance for high-speed processors
[DE83-012669] 02 p0277 N84-11814
Vectorization of algorithms for solving systems of elliptic difference equations
[DE83-014125] 05 p0738 N84-14848
Learning about supercomputers on a microcomputer with no keyboard: A science museum exhibit
[DE84-001177] 19 p3073 N84-29496
BUZZARD, R. J.
Mode 2 fatigue crack growth specimen development
[NASA-TM-83722] 19 p3034 N84-29248
BYCHKOV, V. P.
Energy metalbolism enzymes in simulation of some spaceflight factors 02 p0260 N84-11704
Effect of high ammonia content in pressure chamber atmosphere on human adrenocortical system function 20 p3255 N84-30658
BYCHKOV, V. S.
Cross-spectral analysis of atmospheric pressure microfluctuations and low-frequency sea level changes 17 p2699 N84-27196
BYCHKOV, Y. I.
Miniaturized pulsed CO2 laser with sealed electron source 13 p1969 N84-22782
BYER, R. L.
Advanced diagnostics and instrumentation for chemically reactive flow systems
[AD-A131814] 03 p0346 N84-12251
Laser physics and laser spectroscopy
[AD-A131720] 03 p0379 N84-12470
High energy efficient solid state laser sources
[NASA-CR-174606] 04 p0539 N84-13548
Report of significant accomplishments. Joint services electronics program of the Edward L. Ginzton laboratory
[AD-A133360] 07 p0998 N84-16469
Growth and evaluation of AgGaS2 and AgGaSe2 for infrared nonlinear applications
[NASA-CR-175185] 08 p1234 N84-18066
Tunable optical sources
[AD-A140984] 18 p2845 N84-28068
BYERS, F. M., JR.
Stratigraphic and volcano-tectonic relations of Crater Flat Tuff and some older volcanic units, Nye County, Nevada
[DE84-010926] 20 p3242 N84-30584
BYKER, H. J.
Carbon dioxide sensor technology
[AD-A133688] 05 p0716 N84-14690
BYKHOVSKIY, A. V.
Health education of population in conection with widespread use of laser radiation 17 p2742 N84-27407
BYKOV, A. I.
Instability of collapsing cylindrical shell during magnetic energy density 20 p3287 N84-30872
BYKOVSKIY, N. Y.
Control computer and automation subsystem equipment in Delfin Facility 20 p3289 N84-30880
BYLANDER, T.
CSRL (Conceptual Structures Representation Language): A language for expert systems diagonsis
[AD-A131403] 02 p0272 N84-11782
BYLINA, N.
Creep-fatigue interactions in advanced eutectic superalloys
[AD-A142872] 21 p3422 N84-31705
BYNUM, W. L.
An operating system for future aerospace vehicle computer systems
[NASA-TM-85784] 16 p2546 N84-26340
BYRAM, T. R.
Some results from a programme of research into the structure of vortex flow fields around missile shapes 03 p0323 N84-12111
BYRD, E. A.
Suitability of commercially available laboratory cryogenic refrigerators to support shipboard electro-optical systems in the 10 - 77 Kelvin region 06 p0821 N84-15355
BYRD, J. S.
Robotics at Savannah River
[DE84-003482] 11 p1712 N84-21158
BYRNE, C. A.
Preparation and properties of polyurethane and polyurethaneurea elastomers from methylene bis(4-cyclohexylisocyanate)
[AD-A137645] 11 p1637 N84-20704
BYRNE, D. P.
Air-breakdown limits for microwave-pulse propagation. Part 1. Experiments
[DE83-017832] 04 p0523 N84-13438
BYRNE, D. V.
Split-Stirling-cycle displacer linear-electric drive 06 p0820 N84-15343
BYRNE, F.
Video processor for air traffic control beacon system
[NASA-CASE-KSC-11155-1] 06 p0829 N84-15395
BYRNE, J. E.
Design of a lateral ride comfort control system for STOL aircraft
[UTIAS-TN-247] 07 p0950 N84-16165
BYRNE, K. P.
Experimental determination of the particle motions associated with the low order acoustic modes in enclosures
[NASA-CR-174542] 02 p0287 N84-11882
BYRNE, P. B.
IUE observations of BY Draconis 24 p3975 N84-35176
Coordinated IUE and ground-based observations of active stars: Flare events on YZ CMi, V 1005 ORI, AD Leo and AR Lac 24 p3975 N84-35177
Models for the active and quiescent regions on the RS CVN-type system 2 Pegasi (HD 224085) 24 p3978 N84-35197
BYRNE, R. N.
DDRFP transport code
[DE84-008573] 19 p3109 N84-29753
BYRNE, W. E.
Preliminary program manager's guide to Ada
[AD-A140347] 16 p2565 N84-26457
BYRNES, J. B.
Interactive digital signal processor
[NASA-TM-83997] 24 p3944 N84-34974
BYSHEV, V. I.
Forming of upper homogeneous layer in Mediterranean basin 17 p2699 N84-27195
BYSTROV, L. N.
Effect of electron irradiation on relaxation of tension in aluminum and aluminum alloys 12 p1784 N84-21639
BYVIK, C. E.
Photoelectrochemical cells including chalcogenophosphate photoelectrodes
[NASA-CASE-LAR-12958-1] 13 p2007 N84-23019

C

CABAK, A. R.
Simulation and analysis of differential global positioning system for civil helicopter operations
[NASA-CR-166534] 10 p1425 N84-19317
CABANISS, G. E.
Re-examination of beta-alumina doped with chromium using photoacoustic spectroscopy 11 p1742 N84-21369
CABAYAN, H. S.
Dynamic characteristic of intense short microwave propagation in an atmosphere
[DE84-002788] 21 p3387 N84-31496
CABEY, M. A.
New silicon rubber cable insulation promises circuit integrity, in flaming environment 11 p1723 N84-21237
CABIBBO, N.
Weak interactions on the lattice
[TH.3774-CERN] 23 p3819 N84-34219
CABLE, P. G.
Signal processor for remote optical interferometric sensors
[AD-D011045] 19 p3105 N84-29726
CABOT, M. A.
Nonlinear acoustics in a dispersive continuum: Random waves, radiation pressure, and quantum noise 04 p0594 N84-13920
CABOT, W. H.
Two-dimensional accretion disk structure and stability 04 p0620 N84-14090
CABRAL, H. E.
Periodic and quasi-periodic motions in triple stellar systems 19 p3117 N84-29807
CABRINI, A.
Polymers which are resistant to ionizing radiation for paints used in light water nuclear power stations
[BLL-RISLEY-TR-4907-(9091.9F)] 17 p2626 N84-26801
CABUK, J. G., JR.
Identification of bottlenecks and capacity constraints in F-14, F-15, F-16, and F/A-18 aircraft production
[AD-A134629] 08 p1095 N84-17121
CACCIARI, C.
Ultraviolet and optical observations of the Cygnus OB2 association: The star 8A 24 p3977 N84-35191
CACOULLOS, T.
Occupancy models, Bell-type polynomials and numbers and applications to probability
[AD-A130453] 01 p0136 N84-10892
CADARETTE, B. A.
Aerobic fitness and the hypohydration response to exercise-heat stress
[AD-A132263] 05 p0713 N84-14669
CADARETTE, B. C.
Influence of heat stress and acclimation on maximal aerobic power
[AD-A142329] 19 p3066 N84-29453

CADARETTE, B. S.
Effects of heat acclimation on atropine impaired thermoregulation
[AD-A139292] 15 p2380 N84-25282
CADDY, M. J.
TIGS (table plot interactive graphics system)--an interactive graphical system for the creation and correction of tabular data sets
[AD-A135522] 08 p1212 N84-17906
CADIEU, F. J.
Method of directly crystallizing a (Sm + Ti):Fe = 1:5 compound
[AD-D011061] 23 p3830 N84-34291
CADOTTE, J. E.
Temperature-resistant elements for reverse osmosis treatment of hot process waste
[DE84-005190] 10 p1456 N84-19507
CADY, D. R.
The cosmic ray energy spectrum from 2 x 10-17 to 10-e-19 EV 08 p1246 N84-18146
CADY, W. E.
Development of alternate silicone potting compounds. Volume 11: Influences of temperature, material variables and composition variables on the properties of substitute potting compounds
[DE83-013025] 01 p0051 N84-10326
CAESAR, B.
The introduction of clampbands in spacecraft structural mathematical models
[EMSB-12/83] 12 p1782 N84-21627
CAFFARELLI, L. A.
Compressible flows of jets and cavities
[PREPRINT-637] 17 p2669 N84-27022
CAFLISCH, R. G.
Phase transitions in chemisorbed systems
22 p3682 N84-33342
CAGE, J. H.
Subordinate perceptions of contingent leaders: Do followers accept our theories?
[AD-P003248] 18 p2904 N84-28415
CAGLAYAN, A. K.
FINDS: A fault inferring nonlinear detection system. User's guide
[NASA-CR-172199] 02 p0176 N84-11156
CAGLIO, N.
Diagnostics for an XUV/soft X-ray laser
[DE84-012593] 21 p3410 N84-31628
CAHEN, D.
CdS/CuInSe2 heterojunction cell research
[DE84-004508] 22 p3618 N84-32926
CAHILL, D. F.
Biological effects of radiofrequency radiation: Review draft, parts 1, 2 and 3
[PB83-262550] 05 p0714 N84-14680
CAHILL, L. J.
Plasma jet effects on the ionospheric plasma
05 p0639 N84-14202
CAHILL, T.
Earth strain measurements with the transportable laser ranging system: Field techniques and planning
[NASA-CR-175150] 08 p1186 N84-17725
CAHIR, J. J.
Development of a technique for short-term prediction of hydrometeors using advection and physical forcing
[AD-A132259] 04 p0567 N84-13740
CAHN, J. W.
Application of solidification theory to rapid solidification processing
[AD-A134132] 05 p0653 N84-14291
Application of solidification theory to rapid solidification processing
[AD-A135982] 09 p1283 N84-18380
CAHN, R. N.
Cross section estimates for multi-TeV physics
06 p0911 N84-15914
Detectors at 20 TeV and detector considerations for a high luminosity hadron-hadron machine
06 p0911 N84-15920
CAIGER, B.
The use of flight recorders in the investigation of aircraft mishaps 06 p0775 N84-15078
CAILLE, E.
Present capabilities and future requirements for computer-aided geometric modeling in the design and manufacture of gas turbine 12 p1875 N84-22219
CAIN, J. B.
TIS (Technology Information System): A focal point for technology transfer
[AD-A130798] 01 p0161 N84-11060
CAIN, J. C.
Small-scale magnetic features of the polar regions
14 p2162 N84-23949
CAIN, R. A.
Machine intelligence research applied to industrial automation
[PB84-123348] 10 p1473 N84-19618
CAIRA, M.
Synthesis and structure of sulfur derivatives of a (methylene)phosphine
[AD-A141513] 19 p2984 N84-28909
CAIRD, R. S.
Design of a 20-MJ coaxial generator
[DE83-014152] 01 p0073 N84-10481
Experimental investigation of explosive-driven plasma-compression opening switches
[DE83-0124200] 02 p0214 N84-11399
Single-mode fiber-optic sensor for high currents
[DE83-014163] 02 p0295 N84-11933
Megavolt pulse transformer powered by a fast plate generator
[DE83-014189] 03 p0366 N84-12384
CAIRNS, E. J.
Advanced electrochemical energy storage systems
[DE84-008245] 15 p2364 N84-25184
Active material redistribution rates in zinc electrodes: Effect of alkaline electrolyte compositions having reduced zinc oxide solubility
[DE84-010709] 21 p3392 N84-31525
CAITO, S. A.
Image acquisition and manipulation system
[AD-A138927] 13 p2028 N84-23153
CAKIR, S.
Colored bubbles: An experiment for triggering equatorial spread F 05 p0540 N84-14212
CALABRIA, J. A.
Direct measurement of Earth's vertical deflection using global positioning system
[AD-D011099] 22 p3534 N84-32373
CALAHAN, D. A.
Vectorized sparse elimination
[AD-A141131] 19 p3095 N84-29657
CALAME, J. P.
Dielectric relaxation in poly(ethylene oxide) complexed with alkali metal perchlorates
[AD-A134464] 07 p0970 N84-16284
Ion conduction poly(vinyl acetate)
[AD-A142249] 19 p3096 N84-29660
Electrical and differential scanning calorimetry studies of poly(ethylene oxide) complexed with alkaline earth thiocyanates
[AD-A143198] 22 p3546 N84-32449
Electrically conducting poly(vinyl acetate)
[AD-A143199] 22 p3559 N84-32538
CALAWAY, W. F.
Narrow-band, near-UV, high-repetition-rate laser-induced fluorescence system for use as an dge diagnostic in fusion machine
[DE84-000586] 04 p0542 N84-13567
Velocity and electronic state distributions of sputtered Fe atoms by laser-induced fluorescence spectroscopy
[DE84-003649] 08 p1230 N84-18040
CALCAGNO, F., JR.
Resource and potential reclamation evaluation: Northeast Montana investigations
[PB84-112390] 09 p1337 N84-18734
Resource and potential reclamation evaluation: Northeast Montana investigations
[PB84-112408] 09 p1338 N84-18735
CALCOTE, H. F.
Ionic mechanisms of carbon formation in flames
[AD-A137079] 10 p1455 N84-19505
CALDECOTT, R.
Selected aspects of radio interference from HVDC (High Voltage Direct Current) converter stations
[PB83-219675] 01 p0075 N84-10494
CALDERON, M. O.
Vacuum measurements on the tandem mirror experiment upgrade (TMX-U) fusion experiment
[DE83-017836] 03 p0448 N84-12946
Construction and operational experience of the tandem mirror experiment-upgrade (TMX-U)
[DE83-018181] 04 p0605 N84-13995
Design and fabrication of circular and rectangular components for electron-cyclotron-resonant heating of tandem mirror experiment-upgrade
[DE84-003244] 07 p1078 N84-17010
Circular waveguide systems for electron-cyclotron-resonant heating of the tandem mirror experiment-upgrade
[DE84-003739] 08 p1233 N84-18062
CALDWELL, C.
Calcium modulation of plant plasma membrane-bound ATPase activities 02 p0263 N84-11723
CALDWELL, D.
A methodology for digital processing of geographic and cartographic data
[AD-A135835] 09 p1337 N84-18730
CALDWELL, D. R.
The rapid sampling vertical profiler MILDEX, October-November 1983
[AD-A140985] 18 p2892 N84-28356
WAZP observations during MILDEX October-November 1983
[AD-A141048] 18 p2893 N84-28358
CALDWELL, J.
The ISPM unified radio and plasma wave experiment
09 p1262 N84-18237
CALDWELL, J. T.
Multi-isotopic gamma ray assay system for alpha contaminated waste
[DE83-015254] 02 p0292 N84-11917
CALDWELL, S. E.
Use of fiber optics and laser-induced fluorescence for remote measurements of UF6 in strong rotation
[DE83-014195] 01 p0088 N84-10575
CALEGAO, I. C. C.
Preparation of anhydrous hydrazine
[INPE-2806-PRE/366] 02 p0203 N84-11320
Improvements in the process of dehydrating hydrazine by sodium hydroxide
[INPE-3198-PRE/561] 23 p3712 N84-33531
CALEY, L.
Hydrolytic degradation of Kevlar 49 fibers
[DE84-004158] 13 p1954 N84-22705
CALEY, L. E.
Quality-assurance tests of five Y-12 Kevlar-49 spools used to fabricate strands and reliability specimens for stress-rupture tests
[DE84-012373] 21 p3357 N84-31295
CALFO, F. D.
Micronized coal burner facility
[NASA-CASE-LEW-13426-1] 07 p0969 N84-16276
CALHOON, C.
Passive microwave characteristics of the Bering Sea ice cover during Marginal Ice Zone Experiment (MIZEX) West 23 p3773 N84-33917
CALHOUN, G. L.
Symbology verification study
[AD-A131328] 02 p0177 N84-11162
Computer generated pictorial stores management displays for fighter aircraft
[AD-A131412] 02 p0179 N84-11168
CALHOUN, L. D., II
Cascade variable-conductance heat pipe (A0076)
15 p2274 N84-24851
CALICCHIA, A.
Preliminary result of our new Nationwide Evaluation of X-ray Trends (NEXT) program for Italy
[ISS-L-84/3] 20 p3260 N84-30693
CALICO, R. A.
Active suppression of aeroelastic instabilities for forward swept wings
[AD-A141739] 19 p2964 N84-28783
CALIGIURI, R. D.
Microkinetics of stress-corrosion cracking in stem-turbine disc alloys
[DE83-902290] 01 p0048 N84-10307
Prediction of crack growth aqueous environments
[AD-A131485] 01 p0096 N84-10626
CALISE, A. J.
Research on output feedback control of systems with ill-conditioned dynamics
[NASA-CR-173921] 22 p3639 N84-33071
CALKIN, P. E.
Great Lakes coastal geology: Stratigraphy and bluff recession along the Lake Erie coast, New York
[PB84-128933] 10 p1538 N84-20075
CALKINS, D. E.
Interactive wire-frame ship hullform generation and display 12 p1874 N84-22209
CALLABRESI, M. L.
Three dimensional stress analysis of an artillery projectile joint
[AD-P002955] 14 p2199 N84-24195
CALLAHAN, D. J.
General aviation TCAS (Traffic Alert and Collision Avoidance System) avionics (GATCAS)
[AD-A139145] 14 p2104 N84-23618
CALLAHAN, E.
User-friendly software: The role of the user
[AD-P003489] 21 p3514 N84-32256
CALLAHAN, J. D.
Phobos: Close encounter imaging from the Viking Orbiters
[NASA-RP-1109] 21 p3525 N84-32330
CALLAHAN, K. D.
Multi-family update to the passive solar construction handbook 16 p2516 N84-26149
CALLAHAN, P. S.
Calibration of precise satellite altimetry for the ionosphere and wet troposphere
23 p3778 N84-33955
NASA scatterometer research data processing system: Requirements and design 23 p3781 N84-33979
NASA scatterometer on NROSS: A system for global observations of oceanic winds 23 p3782 N84-33980

CALLAHAN, T.
Picking up an object from a pile of objects
[AD-A133631] 05 p0716 N84-14691
CALLAMARAS, P. V.
A method for designing computer support documentation
[AD-A134466] 07 p1055 N84-16831
CALLAN, J. E., III
The behavioral demonstrator: A requirements specification executor
[AD-A136944] 10 p1555 N84-20189
CALLAND, W. E.
Quasi-Lagrangian diagnostics applied to an extratropical explosive cyclogenesis in the North Pacific
[AD-A132213] 04 p0568 N84-13741
CALLAS, G. P.
Flight evaluation results from the general-aviation advanced avionics system program
[NASA-TM-84397] 01 p0007 N84-10042
An overview of the demonstration advanced avionics system guest pilot evaluation conducted at Ames Research Center 03 p0314 N84-12049
Design, development and flight test of a demonstration advanced avionics system 06 p0773 N84-15067
CALLAS, J.
Status of P714 - LAPDOG
[DE83-013613] 01 p0164 N84-11079
Neutrino-oscillation experiments at Brookhaven National Laboratory
[DE83-018275] 04 p0526 N84-13476
CALLAWAY, A. A.
DEF STAN 00-18: A family of compatible digital interface standards 06 p0771 N84-15049
CALLAWAY, J. M.
Identification and preliminary characterization of global water resource issues which may be affected by CO2-induced climate change
[DE84-011127] 20 p3246 N84-30604
CALLEN, E.
Effect of pressure on the static and dynamic acoustic properties of porous rubber
[AD-A138744] 13 p1963 N84-22756
CALLEN, W. R.
Holographic data storage crystals for LDEF (A0044) 15 p2277 N84-24677
CALLERO, M.
The subjective function approach for analyzing systems
[RAND/P-6893] 11 p1718 N84-21206
CALLINAN, R. J.
Some thoughts on 3-D isoparametric elements
[ARL-STRUC-NOTE-489] 07 p1059 N84-16860
CALLIS, S. L.
Argentina wheat yield model
[E84-10101] 12 p1828 N84-21919
Argentina soybean yield model
[E84-10102] 12 p1828 N84-21920
Brazil wheat yield covariance model
[E84-10103] 12 p1829 N84-21921
Brazil soybean yield covariance model
[E84-10104] 12 p1829 N84-21922
Argentina corn yield model
[E84-10105] 12 p1829 N84-21923
CALLISON, R. D.
Satellite remote sensing, environmental monitoring and the offshore oil and gas industries 03 p0398 N84-12603
CALLOWAY, R. L.
Lateral-directional stability investigation of the space shuttle orbiter at Mach 6 01 p0022 N84-10137
CALLSEN, H.
A 60 GHz pulse radar for detection of high voltage power lines
[BMFT-FB-W-84-013] 19 p3009 N84-29077
CALMELS, P.
Auxiliary power systems with gas turbines 03 p0334 N84-12170
CALO, J. M.
Chemical reactions and molecular aggregation in cryogenic whole air sample matrices
[AD-A137879] 11 p1682 N84-20977
Composition alteration of stratospheric air due to sampling through a flow tube: Environmental research papers
[AD-A143319] 22 p3623 N84-32959
CALOGERO, F.
A remark on the Korteweg-de Vries equation
[PREPRINT-403] 23 p3819 N84-34218
CALOI, V.
IUE integrated spectra of galactic globular clusters 24 p3982 N84-35230
CALTABIANO, T.
Remote sensing analysis of oil pollution in Augusta Bay, Sicily 03 p0400 N84-12616
CALUDINON, B.
Multifunction spacecraft attitude estimation and navigation system 15 p2267 N84-24611
CALVERT, J. A.
Self-indexing latch system
[NASA-CASE-MFS-25956-1] 11 p1684 N84-20860
CALVERT, J. G.
Mechanism and rates of the gas phase oxidations of sulfur dioxide and the nitrogen oxides in the atmosphere
[PB83-231324] 01 p0106 N84-10691
CALVERT, W. J.
Application of an inviscid-viscous interaction method to transonic compressor cascades 07 p0954 N84-16190
CALVET, J. N.
Robotisation of dye penetrant inspection: A study of a prototype and its development
[BLL-RISLEY-TRANS-4585-(9091.9)] 22 p3606 N84-32847
CALVO, A. B.
Logistics engineering design techniques for fault-tolerant avionics systems
[AD-A137456] 10 p1430 N84-19349
CALVO, E. J.
Electrochemical studies of redox systems for energy storage
[NASA-CR-174503] 06 p0873 N84-15681
CAMAGNI, S.
Marine remote sensing activities of the Joint Research Center, Ispra, Italy 03 p0396 N84-12586
CAMARA-NETO, G.
An integrated software system for geometric correction of LANDSAT MSS imagery
[E84-10143] 16 p2507 N84-26091
CAMARA, E. H.
Electrochemistry of the sulfide-polysulfide couple
[DE84-005881] 11 p1629 N84-20661
Advanced onboard storage concepts for natural gas-fueled automotive vehicles
[NASA-CR-174655] 23 p3790 N84-34036
CAMARASA, J. M.
Mapping land use in Catalonia (Spain) 03 p0400 N84-12613
CAMARASESCU, N.
New investigation of short wings with lateral jets
[NASA-TM-77347] 06 p0782 N84-15124
CAMARDA, C. J.
Static and dynamic structural-sensitivity derivative calculations in the finite-element-based Engineering Analysis Language (EAL) system
[NASA-TM-85743] 11 p1668 N84-20880
CAMARERO, R.
Generation of surface-fitted coordinate grids 12 p1871 N84-22194
CAMBANIS, S.
Analysis of a delayed delta modulator
[AD-A131208] 02 p0282 N84-11845
Convergence of quadratic forms in p-stable random variables and theta sub p-radonifying operators
[AD-A135314] 08 p1219 N84-17959
Analysis of adaptive differential PCM (Pulse-Code Modulator) of a stationary Gauss-Markov input
[AD-A136518] 09 p1299 N84-18492
Research in stochastic processes
[AD-A136222] 09 p1381 N84-19018
Research in stochastic processes
[AD-A137736] 11 p1717 N84-21202
CAMBIER, J. L.
Advanced pattern recognition
[AD-A132339] 04 p0604 N84-13987
CAMBRA, F. J.
Earthquake response considerations of broad liquid storage tanks
[PB83-251215] 04 p0516 N84-13393
CAMBRAY, P.
A study of the fundamental problems of combustion in the combustion chambers of turbojets using a tubular reactor 15 p2293 N84-24759
CAMEJO, H. C.
Infrared observations of cometary solids 02 p0304 N84-11997
CAMELIO, F.
A study of long aerosol initiated laser induced air breakdown plasmas
[AD-A143967] 23 p3828 N84-34279
CAMERLENGO, A. L.
A note on the eigenvalues of a layered system
[INPE-3263-PRE/594] 24 p3950 N84-35007
CAMERON, A.
Evaluation of service lubricants and metals correlation of bench tests with engines
[AD-A143971] 23 p3718 N84-33569
CAMERON, C. P.
Operational experience from solar thermal energy projects 18 p2874 N84-28251
CAMERON, R. F.
Theoretical calculations of pressure vessel failure frequencies for Sizewell B transients
[AERE-R-11196] 18 p2854 N84-28125
CAMILLERI, L.
Review of properties of various types of calorimeters: High luminosity and high energy 06 p0911 N84-15917
CAMILLI, P. P. G.
Digital transmission and visualization of meteorological satellite images
[INPE-2809-PRE/367] 02 p0239 N84-11567
Quantitative analysis of satellite infrared imagery using digital storage equipment
[INPE-2978-PRE/440] 22 p3639 N84-33074
CAMMARATA, R. C.
Atomic transport in metallic glasses
[AD-A136363] 09 p1282 N84-18373
CAMMARATA, S.
Strategies of cooperation in distributed problem solving
[AD-A136527] 09 p1371 N84-18955
Distributed problem solving for air fleet control: Framework and implementations
[AD-A143168] 21 p3327 N84-31108
CAMMILLERI, R.
A study of atmospheric transmission in the wavelength regions of 0.35 micrometers to 14 micrometers
[AD-A135721] 09 p1302 N84-18510
CAMP, D. W.
NASA B-57B severe storms flight program
[NASA-TM-84921] 05 p0628 N84-14129
Wind speed and direction shears with associated vertical motion during strong surface winds
[NASA-TM-82566] 08 p1190 N84-17756
CAMPAGNUOLO, C. J.
Fluidic generator to power rocket proximity fuze
[AD-A131062] 01 p0029 N84-10184
CAMPANA, J. E.
High-temperature deuterated lubricants: Additives, mechanisms, and methods
[AD-A138114] 12 p1801 N84-21743
CAMPANA, M. E.
Parametric model for peak flow prediction in ungaged ephemeral watersheds
[PB83-249698] 04 p0555 N84-13658
Relationships among precipitation, snowmelt, subsurface flow, groundwater recharge and streamflow generation in the Clear Creek watershed, eastern Sierra Nevada
[PB83-253344] 05 p0697 N84-14579
CAMPBELL, A. B.
Proton-induced single event upsets in the SBP9989 microprocessor
[AD-A142448] 20 p3266 N84-30724
CAMPBELL, C. L.
Reliability growth programs of major weapon systems in the aeronautical systems division
[AD-A134380] 07 p1013 N84-16571
CAMPBELL, C. T.
Surface science study of selective ethylene epoxidation catalyzed by the Ag(110) surface: Structural sensitivity
[DE84-001324] 04 p0494 N84-13246
The selective epoxidation of ethylene catalyzed by silver: Mechanistic details revealed by single-crystal studies
[DE84-009987] 21 p3506 N84-32215
CAMPBELL, C. W.
A spatial model of wind shear and turbulence for flight simulation
[NASA-TP-2313] 14 p2178 N84-24044
Geometric interpretations of the Discrete Fourier Transform (DFT)
[NASA-TP-2332] 14 p2189 N84-24114
CAMPBELL, D. B.
Volcanism and rift formation in Beta Regio, Venus: New radar results 11 p1754 N84-21450
Geology of Maxwell Montes, Venus 13 p2077 N84-23460
CAMPBELL, D. K.
Solitons and polarons in quasi-one dimensional conducting polymers and related materials
[DE83-015233] 03 p0435 N84-12853
CAMPBELL, D. V.
Tactical high frequency array antennas
[AD-D011095] 22 p3587 N84-32717
CAMPBELL, E.
Synthetic voice: Power system enunciation speech synthesis system
[PB84-151646] 14 p2141 N84-23838
Georges Bank monitoring program: Analysis of trace metals in bottom sediments during the second year of monitoring
[PB84-169465] 16 p2534 N84-26269

CAMPBELL, E. M.
Creation of ultra-high-pressure shocks by the collision of laser-accelerated disks: Experiment and theory
[DE83-017366] 03 p0382 N84-12486
CAMPBELL, F. J.
Temperature dependence of hydrolysis of polyimide wire insulation
[AD-A131334] 02 p0200 N84-11301
CAMPBELL, G.
Central Demand Data Base (CDDB) End Item Code (EIC)
[AD-P002807] 13 p2059 N84-23353
CAMPBELL, G. E.
Constant force friction damper
[NASA-CASE-MSC-20505-1] 13 p1939 N84-22611
CAMPBELL, J.
The importance of radio interferometry for geodynamics 08 p1173 N84-17644
CAMPBELL, J. A.
Fire management-suppression system-concepts relating to aircraft cabin fire safety
[FAA-CT-82-134] 05 p0628 N84-14130
CAMPBELL, J. F.
Recent studies at NASA-Langley of vortical flows interacting with neighboring surfaces
03 p0322 N84-12109
CAMPBELL, J. G.
Low thrust bipropellant engine development
20 p3136 N84-29912
CAMPBELL, J. O.
Instructional systems development model for interactive videodisc
[AD-A136737] 10 p1498 N84-19790
Interactive videodisc design and production, workshop guide
[AD-A136830] 10 p1498 N84-19791
CAMPBELL, K. J.
Liu fault diagnosis investigation
[AD-A137552] 11 p1706 N84-21119
CAMPBELL, L. J.
Using the surface tension to estimate the condensate density of superfluid He-4
[DE83-011325] 08 p1236 N84-18077
CAMPBELL, M.
Applications for anaerobic adhesives, with particular reference to the replacement of conventional locking devices 09 p1291 N84-18433
CAMPBELL, M. E.
Effects of ionizing radiation and restraint stress on activity, avoidance conditioning, and stomach ulcers in albino rats
[AD-A141515] 19 p2984 N84-28911
CAMPBELL, M. M.
Toroidal self-field corrections to the linear dispersion relation for the negative mass instability in a modified betatron
[AD-A135940] 09 p1377 N84-18995
Modified betatron accelerator studies
[AD-A137508] 10 p1576 N84-20329
CAMPBELL, N. A.
Satellite remote sensing, environmental monitoring and the offshore oil and gas industries
03 p0398 N84-12603
CAMPBELL, P. G.
Performance criteria for restoration coatings for porcelain enamel surfaces
[PB84-141787] 11 p1638 N84-20709
CAMPBELL, R. B.
Process research of non-CZ silicon material
[NASA-CR-173759] 19 p3050 N84-29353
Flat-plate solar array project process development area, process research of non-CZ silicon material
[NASA-CR-173926] 23 p3786 N84-34012
Progress research of non-Cz silicon material
[NASA-CR-173949] 23 p3787 N84-34021
CAMPBELL, R. H.
SAGA: A project to automate the management of software production systems
[NASA-CR-173206] 07 p1054 N84-16823
The embedded operating system project
[NASA-CR-173438] 16 p2542 N84-26319
CAMPBELL, R. L.
Aerodynamic design for improved manueverability by use of three-dimensional transonic theory
[NASA-TP-2282] 09 p1250 N84-18161
A computational method for predicting the effects of varying Reynolds number and dynamic pressure on flexible wings at transonic speeds 12 p1764 N84-21508
Condition evaluation of Supersonic Naval Ordnance Research Track (SNORT)
[AD-A140036] 15 p2265 N84-24599
CAMPBELL, R. L., SR.
Computer-aided analysis of concrete strength test results
[AD-A136265] 09 p1330 N84-18686
CAMPBELL, R. M.
Determination of individual temperatures and luminosities in eclipsing binary star systems
[AD-A134182] 08 p1244 N84-18133
CAMPBELL, S. L.
Study of nonlinear singular systems
[AD-A142348] 20 p3280 N84-30820
CAMPBELL, T. G.
Large deployable antenna flight experiment for the Space Technology Experiments Platform (STEP)
08 p1112 N84-17232
CAMPBELL, W. A., JR.
Outgassing data for selecting spacecraft materials
[NASA-RP-1124] 17 p2617 N84-26751
CAMPBELL, W. H.
Possible tidal modulation of the Indian monsoon onset
06 p0879 N84-15721
Possible tidal modulation of the Indian monsoon onset
[AD-A135441] 08 p1191 N84-17760
CAMPBELL, W. J.
Antartic sea ice, 1973 - 1976: Satellite passive-microwave observations
[NASA-SP-459] 01 p0110 N84-10718
Report of the first Nimbus-7 SMMR Experiment Team Workshop
[NASA-TM-85093] 02 p0257 N84-11684
MIZEX: A program for mesoscale air-ice-ocean interaction experiments in Arctic marginal ice zones. 2: A science plan for a summer marginal ice zone experiment in the Fram Strait/Greenland sea: 1984
[AD-A134872] 08 p1187 N84-17737
Wind, waves and swell in the Antarctic marginal ice zone by SEASAT radar altimeter 14 p2161 N84-23941
Arctic Sea ice by passive microwave observations from the Nimbus-5 Satellite 14 p2166 N84-23970
Remote sensing of the marginal ice zone during Marginal Ice Zone Experiment (MIZEX) 83
23 p3772 N84-33910
Observation of variations in the composition of sea ice in the Greenland MIZ during early summer 1983 with the Nimbus-7 SMMR 23 p3773 N84-33916
Comparison of sea surface wind speed fields by SEASAT radar altimeter, scatterometer and scanning multichannel microwave radiometer with an emphasis on the Southern Ocean 23 p3774 N84-33922
CAMPI, M.
The concentric spherical cavity TE and TM (Transverse Electromagnetic and Transverse Magnetic) eigenvalues
[AD-A143985] 23 p3732 N84-33652
CAMPISI, I. E.
Transient high-field behavior of niobium superconducting cavities
[DE83-011852] 01 p0068 N84-10443
High-gradient, pulsed operation of superconducting niobium cavities
[DE84-012498] 20 p3311 N84-31030
CAMPISI, R.
Inverse free-electron laser accelerator
[DE83-016370] 02 p0228 N84-11493
CAMPOS, P. E.
Influences on group productivity. 2: Factors inherent in the person. A bibliographic synopsis
[AD-A131015] 06 p0891 N84-15790
CANADA, J. R.
North Carolina used-motor-oil re-refining program: Economics and logistics and operating results
[DE84-001448] 06 p0810 N84-15277
CANAVERO, F.
A discriminant analysis of radar data applied to severe storms 23 p3775 N84-33933
CANCORO, A. C. O.
The October 1963 recurrence of the outburst of the Orion water maser source and its past history
[INPE-2985-PRE/444] 07 p1088 N84-17076
CANDEL, S.
Analysis of the sound field radiated by the Ariane launch vehicle during lift-off 16 p2476 N84-25872
CANDIDI, M.
A comparison between GEOS 1 magnetic field measurements and some models of the geomagnetic field
[IFSI-82-5] 03 p0409 N84-12675
Observation of multiple ion beams in the magnetotail low latitude boundary layer. Evidence for a double H+ population
[IFSI-82-10] 03 p0409 N84-12676
The structure of the plasma sheet-lobe boundary in the Earth's magnetotail
[NASA-TM-85434] 03 p0463 N84-13049
The DC electric field in space: Direct measurements and inferences from cold plasma drifts
08 p1117 N84-17264
Low energy (130 eV) oxygen ions at the geosynchronous orbit during the CDAW-6 event of March 22, 1979
[IFSI-83-17] 18 p2881 N84-28291
CANDY, P.
SS Cygni: Accretion disk morphology
24 p3979 N84-35206
CANE, H. V.
Velocity profiles of interplanetary shocks
03 p0474 N84-13122
CANEBA, G. T.
Diffusion and sorption of cyclohexane vapor in SBS and SBR copolymers
[AD-A132397] 04 p0506 N84-13315
CANFIELD, D.
Reduction of CO2 to methanol and methane by photo and dark reactions on semiconductor electrodes
[PB83-249490] 03 p0358 N84-12329
Reduction of CO2 to methanol and methane by photo and dark reactions on semiconductor electrodes
[PB84-214360] 21 p3363 N84-31334
CANNON, C. Y.
Development of a unique Physical Metrology Laboratory Recall System
[DE83-017415] 03 p0423 N84-12767
CANNON, G. A.
Topographic effects of the Alaskan stream on shelf currents
[PB84-205137] 22 p3828 N84-32988
CANNON, J. B.
Background information and technical basis for assessment of environmental implications of magnetic fusion energy
[DE83-018300] 04 p0611 N84-14030
CANNON, P. S.
Meteor scatter communication in an air-ground environment
[RAE-TM-RAD-NAV-224] 09 p1298 N84-18484
Meteor scatter communication in an air-ground environment
[AD-A135689] 09 p1301 N84-18506
CANNON, R. H.
End-point control of flexible robots
[AD-A144428] 24 p3910 N84-34786
CANNON, R. H., JR.
Center of excellence in aerospace manufacturing automation
[AD-A136477] 09 p1249 N84-18155
Precise control of flexible manipulators
[NASA-CR-175389] 10 p1553 N84-20175
CANNY, J. F.
Finding edges and lines in images
[AD-A130824] 01 p0147 N84-10967
CANTER, K. F.
Differences between positrons and electrons in elastic and inelastic processes at surfaces
[DE84-001208] 06 p0916 N84-15953
CANTRELL, B. H.
Comparison of six integrators used in long-term radar integrations
[AD-A141536] 19 p3005 N84-29046
CANTRELL, J. S.
Diffusion properties and phase transitions of the metalic glass a-Zr2-PdH-x
[DE83-016626] 05 p0660 N84-14341
CANTRELL, W. E.
Quantum leap in avionics
[AD-P003584] 21 p3340 N84-31189
CANTWELL, B. J.
Advanced diagnostics and instrumentation for chemically reactive flow systems
[AD-A131814] 03 p0346 N84-12251
CANU, P.
Active sounder experiments on GEOS and ISEE
05 p0635 N84-14177
CANUTO, C.
Spectral methods for exterior elliptic problems
[NASA-CR-172380] 19 p3062 N84-29560
CAO, Q.
Optical computing research
[AD-A143994] 23 p3825 N84-34258
CAPANNINI, E.
Laser remote sensing at IROE
24 p3907 N84-34747
CAPART, J. J.
European technology requirements on space automation and teleoperation 09 p1297 N84-18477
CAPE, J. A.
High-efficiency solar cells fabricated by vacuum MO-CVD 19 p3047 N84-29329
CAPELLA, J. E.
Generation of mesoscale hydrodynamic phenomena by the Grappler and Whiting Seamounts, southeast of Puerto Rico
[PB84-148196] 12 p1863 N84-22140
CAPELLE, G. A.
Resonance ionization spectroscopy measurement of the vapor pressure of several molecular species
[DE84-010656] 21 p3409 N84-31624

CAPLAN, M.
The 60-GHz gyrotron development program
[DE83-012922] 02 p0214 N84-11402
The 100 GHz, 1 MW, CW gyrotron study program
[DE84-005751] 12 p1813 N84-21819
Improved computer modelling of magnetron injection guns for gyrotrons
[DE84-007536] 15 p2330 N84-24992
High power K sub a -band transmitter for planetary radar and spacecraft uplink 22 p3572 N84-32625

CAPLAN, V. L.
Space environment effects (M0006)
15 p2279 N84-24690

CAPLOT, M.
Helicopter noise 06 p0767 N84-15027

CAPONE, F. J.
Effect of thrust vectoring and wing maneuver devices on transonic aeropropulsive characteristics of a supersonic fighter
[NASA-TP-2119] 01 p0004 N84-10025
Aeropropulsive characteristics of nonaxisymmetric-nozzle thrust reversers at Mach numbers from 0 to 1.20
[NASA-TP-2306] 15 p2254 N84-24538

CAPORALONI, M.
Transhorizon microwave propagation measurements related to surface meteorological parameters
15 p2325 N84-24964

CAPORASO, G. J.
Beam dynamics in the Advanced Test Accelerator (ATA)
[DE84-001421] 04 p0598 N84-13947

CAPOZZA, A.
A 2-phase flow model for the diffused cavitation study
[CISE-2109] 07 p1004 N84-16514

CAPP, J. D.
RF systems in space. Volume 1: Space antennas frequency (SARF) simulation
[AD-A133734] 05 p0668 N84-14395

CAPP, S. P.
Experimental investigation of the turbulent axisymmetric jet 08 p1155 N84-17518

CAPPEL, A.
Climatological and statistical bases to explain the treatment of climate data 19 p3056 N84-29391

CAPPELLI, J. R.
An integrating dosimeter for pulsed radiation
[AD-A141288] 18 p2844 N84-28062

CAPPELLINI, V.
The Istituto di Ricerca sulle Onde Elettromagnetiche (IROE)-lidar remote sensing of the environment
03 p0396 N84-12590

CAPPS, C. D.
Inversion of experimental optical data
[AD-A138979] 13 p2043 N84-23257

CAPPS, R.
New infrared observations of IRS1, IRS3 and the adjacent nebula in the OMC-2 cluster
16 p2572 N84-26506
New infrared observations of IRS1, IRS3, and the adjacent nebula in the OMC-2 cluster
18 p2950 N84-28705

CAPPS, W. L.
The aircraft infrared measurements guide
[AD-A132598] 05 p0747 N84-14905

CAPRETZ, L. F.
Meteorological database
[INPE-2790-PRE/353] 09 p1399 N84-19135
A system for managing meteorological data
[INPE-3029-PRE/466] 17 p2733 N84-27373

CAPSIMALIS, G. P.
Characterization of crystallographic structure and internal stress of chromium coatings plated under current interruptions
[AD-A136118] 17 p2623 N84-26786

CAPSONI, C.
Integrated use of radar and satellite data
18 p2868 N84-28334

CAPUTO, A. J.
Chemical vapor deposition of erosion resistant TiB-2 coatings
[DE84-012351] 22 p3556 N84-32518

CARABELLI, R.
Autopilot performance evaluation Tornado experience and future applications 24 p3849 N84-34407

CARACENA, F.
Multi-scale analyses of meteorological conditions affecting Pan American World Airways flight 759
[PB83-222562] 01 p0006 N84-10040

CARAFOLI, E.
New investigation of short wings with lateral jets
[NASA-TM-77347] 06 p0782 N84-15124
Supersonic flows around a circular cone with or without blowing on the surface
[AD-A143258] 22 p3532 N84-32362

CARAMANA, E. J.
One-dimensional transport code for field-reversed configurations
[DE84-007449] 15 p2411 N84-25477

CARAN, S. C.
Geothermal potential along the Balcones/Ouachita trend, central Texas: Ongoing assessment and selected case studies
[DE84-010826] 20 p3241 N84-30578
Lineaments of Texas: Possible surface expressions of deep-seated phenomena
[DE84-010827] 21 p3445 N84-31858

CARBARY, J. F.
Saturn's outer magnetosphere
[NASA-TM-85105] 01 p0165 N84-11084

CARBONE, A.
Theoretical and experimental results of dynamic behavior of periodically stiffened cylindrical shell
18 p2794 N84-27731

CARBONE, R.
Precipitation and precipitation efficiencies derived from single Doppler radar 18 p2887 N84-28321
Doppler weather radar applications to terminal and enroute air traffic control 18 p2887 N84-28324

CARBONE, R. M.
Large screen display technology survey
[AD-A144222] 24 p3902 N84-34711

CARBONELL, J. G.
Metaphor and common-sense reasoning
[AD-A131423] 02 p0268 N84-11756
Machine learning. Part 1: A historical and methodological analysis
[AD-A131424] 02 p0278 N84-11824
Towards a general scientific reasoning engine
[AD-A141263] 18 p2924 N84-28543

CARCACI, J. G.
Water resources data for New York, water year 1982. Volume 2: Long Island
[PB84-119536] 09 p1339 N84-18742

CARD, D.
An approach to software cost estimation
[NASA-TM-85607] 13 p2026 N84-23136
Current research in the Software Engineering Laboratory (SEL) 13 p2026 N84-23138
Managers handbook for software development
[NASA-TM-85604] 13 p2028 N84-23150
The effect of spatial, spectral and radiometric factors on classification accuracy using thematic mapper data
[NASA-TM-85995] 20 p3227 N84-30510
The effect of spatial, spectral and radiometric factors on classification accuracy using Thematic Mapper data
23 p3766 N84-33872

CARD, D. H.
Assessment of Thematic Mapper band-to-band registration by the block correlation method
20 p3210 N84-30396

CARD, K. D.
Workshop on a Cross Section of Archean Crust
[NASA-CR-175451] 11 p1677 N84-20947
The Archean crust in the Wawa-Chapleau-Timmins region. A field guidebook prepared for the 1983 Archean Geochemistry-Early Crustal Genesis Field Conference
11 p1681 N84-20969

CARDELL, L.
A note on a cyclotomic diophantine equation
[CTH-MATH-1983-28] 17 p2762 N84-27541
Some results on the diophantine equation X-2+D=Y-N
[CTH-MATH-1984-06] 19 p3091 N84-29624

CARDEN, H. D.
Survey of NASA research on crash dynamics
[NASA-TP-2298] 12 p1826 N84-21901
Impact dynamics research on composite transport structures 20 p3146 N84-29975

CARDEN, J. L.
Inorganic analysis in a controlled ecological life support system
[NASA-CR-173299] 08 p1204 N84-17852

CARDENUTO, N. C.
A stochastic approach to global error estimation in the numerical solution of ordinary differential equations
19 p3118 N84-29815
Attitude determination using strapdown inertial sensors and adaptive estimation
[INPE-3180-PRE/545] 21 p3327 N84-31106

CARDER, B.
Optimized rotary flux compressors for powering laser flashlamps
[DE84-002794] 07 p1010 N84-16555

CARDER, K. L.
Optical means of measuring particle-sea interactions in the Caribbean Sea and Gulf of Mexico
[AD-A131290] 02 p0257 N84-11685
Evaluation of Stokes settling equation for variable density aggregates
[AD-A140678] 17 p2721 N84-27322

CARDON, A. H.
The nonlinear viscoelastic response of resin matrix composite laminates
[NASA-CR-3772] 17 p2617 N84-26750

CARDONE, V. J.
Potential impact of remote sensing data on sea-state analysis and prediction
[E84-10083] 10 p1520 N84-19954

CARDOZO, N. J. L.
Soft X-ray electron temperature measurements on TORTUR
[REPT-84-151] 17 p2766 N84-27568

CAREL, C.
Calculation of low altitude electromagnetic pulses in the first moments
[SNIAS-841-422-105] 21 p3388 N84-31503
Calculation of high altitude electromagnetic pulses due to X and gamma photons
[SNIAS-841-422-106] 21 p3388 N84-31504

CARESTIA, R. A.
Flight test results of the strapdown ring laser gyro tetrad inertial navigation system
[NASA-TM-84358] 02 p0176 N84-11157

CARETTO, L.
A study of atmospheric transmission in the wavelength regions of 0.35 micrometers to 14 micrometers
[AD-A135721] 09 p1302 N84-18510

CAREY, D. A.
Effect of UV illumination on the sublimation of basal surfaces of zinc oxide
[AD-A133383] 06 p0801 N84-15222

CAREY, R. P.
Strains in an elastic plate containing an interference-fit bolt near a free edge
[AR-003-012] 20 p3201 N84-30333
Calibration of CT-4A fatigue test article, March 1983
[AD-A142680] 21 p3328 N84-31115

CAREY, W. C.
Multiple-foil microabrasion package (A0023)
15 p2276 N84-24666
Analysis of hydroxyl data from comet Austin 1982g
24 p3981 N84-35223

CARHART, H. W.
Dry chemical development: A model for the extinction of hydrocarbon flames
[AD-A137952] 11 p1628 N84-20656

CARICO, D.
Fixed-base simulator investigation of Display/SCAS requirements for army helicopter low-speed tasks
[AD-A134123] 05 p0630 N84-14140
A helicopter flight investigation of roll-control sensitivity, damping and cross coupling in a low altitude lateral maneuvering task
[NASA-TM-84376] 07 p0959 N84-16216

CARIGNAN, F. J.
Observations on the sliding wear of ceramics
[DE84-012344] 21 p3372 N84-31395

CARIONI, T.
Assessment of indoor dose from gamma ray emitters and radon daughters in Milan
[CISE-2118] 07 p1073 N84-16974

CARITHERS, W.
The problem of tracking charged particles in the cores of high energy jets in a high rate environment
06 p0911 N84-15916

CARLBERG, J.
Interactive Signal and Pattern Analysis and Recognition Systems (ISPARS). Users' guide
[AD-A141421] 19 p3075 N84-29514
Program descriptions for Interactive Signal and Pattern Analysis and Recognition System (ISPARS)
[AD-A141575] 19 p3077 N84-29522

CARLEIAL, A. B.
System requirements for a SCPC FM low capacity Earth station
[INPE-2943-NTE/207] 17 p2652 N84-26958
Specifications for a low capacity SCPC FM Earth station
[INPE-2944-NTE/208] 17 p2652 N84-26959

CARLEY, J. F.
Pretreatment of Kapton-coated cable for epoxy adhesion
[DE84-006265] 11 p1661 N84-20837
Quality-assurance tests of five Y-12 Kevlar-49 spools used to fabricate strands and reliability specimens for stress-rupture tests
[DE84-012373] 21 p3357 N84-31295

CARLEY, L. R.
Physiology 22 p3684 N84-33363

CARLHEIM-GYLLENSKOLD, V.
On the analytical form of the Earth's magnetic attraction expressed as a function of time
[NASA-TM-77344] 05 p0702 N84-14609

CARLILE, D. W.
Use of fauna as biomonitors
[DE83-016082] 04 p0571 N84-13762

CARLILE, J. V.
Environmental and water quality operational studies. Riverine influences on the water quality characteristics of West Point Lake
[AD-A141328] 18 p2877 N84-28271

CARLIN, F. H.
Sensitivity to hypoxia in humans
21 p3456 N84-31934

CARLINI, R. D.
High-Q perpendicular-biased ferrite-tuned cavity
[DE83-017291] 04 p0529 N84-13478

CARLISLE, A. E.
Integrated budget control using a desktop computer
05 p0717 N84-14697

CARLON, H. R.
Cloud physics and nucleation theory: Revisions indicated by new measurements of the electrical conductivity of evaporation-humidified air
[AD-A130696] 01 p0108 N84-10703

CARLONE, C.
Amorphous silicon-carbon films
[DE83-018077] 03 p0347 N84-12259

CARLOS, W. E.
Studies of hydrogenated amorphous silicon
[DE84-011888] 21 p3505 N84-32211

CARLSMITH, R. S.
ORNL research programs on refrigeration systems, ECUT materials and tribology
[DE84-007542] 19 p3032 N84-29232

CARLSON, B. L.
EMC (electromagnetic compatibility) system test and analysis interface
[AD-A136064] 09 p1303 N84-18519

CARLSON, C. H.
Preliminary scramjet design for hypersonic airbreathing missile application
[NASA-CR-3742] 04 p0486 N84-13195

CARLSON, D. D.
Water resources data for Louisiana, water year 1982. Volume 1: Central and Northern Louisiana
[PB84-118546] 09 p1339 N84-18750

CARLSON, F. M.
Characterization of the general purpose research furnace for low-G directional solidification experiments
[NASA-TM-85718] 04 p0489 N84-13211

CARLSON, J. N., JR.
Design of a digital telemetry data collection system
[DE84-013916] 22 p3541 N84-32420

CARLSON, J. R.
An experimental investigation of nacelle-pylon installation on an unswept wing at subsonic and transonic speeds
[NASA-TP-2246] 09 p1250 N84-18162

CARLSON, L. A.
Inverse transonic airfoil design methods including boundary layer and viscous interaction effects
[NASA-CR-173449] 12 p1765 N84-21514
TRANSEP: A program for high lift separated flow about airfoils
[NASA-CR-3376] 23 p3690 N84-33386

CARLSON, L. W.
Fuel injection device and method
[DE84-014320] 22 p3606 N84-32846

CARLSON, M. A.
Equipment and design changes in extrusion of foamed fluoropolymer resins 11 p1721 N84-21229

CARLSON, N. N.
Moving finite element research for shock hydrodynamics, continuum mechanics and combustion
[AD-P002970] 14 p2201 N84-24206

CARLSON, P. A.
Primer for the Transportable Applications Executive
[NASA-TM-86062] 09 p1367 N84-18921

CARLSON, R. E.
BIMOND: Monotone bivariate interpolation code (preliminary documentation)
[DE84-004159] 10 p1565 N84-20252
Comparison of a simplified version of TRACKER with an analytic solution to a model ray tracing problem
[DE84-007091] 12 p1848 N84-22044

CARLSON, R. S.
High-intensity discharge (HID) solid-state ballast program: Engineering development report, phase 2
[DE84-013882] 22 p3588 N84-32726

CARLSON, R. W.
Sm-Nd isotopic systematics of the ancient Gneiss complex, southern Africa 11 p1678 N84-20950

CARLSON, T.
The sensitivity of a general circulation model to Saharan dust heating 12 p1858 N84-22108

CARLSON, T. A.
Coulomb explosion and recent methods for studying molecular decomposition
[DE83-012348] 01 p0142 N84-10933

CARLSSON, A. E.
Band-overlap metallization of BaS, BaSe and BaTe
[NASA-CR-173396] 12 p1912 N84-22458

CARLSSON, E.
Landsat 4 TM-data: Examples of resolution capacity
[FOA-C-30329-E1] 06 p0867 N84-15644

CARLSSON, G.
Designing efficient communication networks
[AD-A139190] 14 p2202 N84-24219

CARLSSON, H.
Continuous singular probability measures that are almost lattice
[CTH-MATH-1983-26] 17 p2760 N84-27529
Multiparameter maximal functions along dilation-invariant hypersurfaces
[CTH-MATH-1984-11] 23 p3819 N84-34215

CARLSSON, K.
Real-time simulation in a terrain model: Mathematical description
[FOA-C-56041-H2] 15 p2390 N84-25343

CARLSSON, L. A.
An X-ray radiography study of delamination growth in notched carbon/epoxy laminates
[FFA-TN-1983-29] 03 p0386 N84-12516
Delamination growth in notched graphite/epoxy laminates under compression fatigue loading
[FFA-TN-1983-57] 15 p2284 N84-24713

CARLSSON, L. E.
Experimental technique for handling and analysis of particles collected after nuclear explosions
[FOA-C-20503-A1] 05 p0746 N84-14899

CARLSSON, R.
Swedish activities in new ceramic materials, processes 14 p2119 N84-23696

CARLSTEDT, L.
Coherence of appraisal and coping: Parachute jump effectiveness
[FOA-C-55058-H3] 03 p0416 N84-12724

CARLSTEN, J. L.
Efficient forward conversion in a Raman generator
[DE84-007466] 20 p3194 N84-30285

CARLSTROEM, A.
Psychological research in USA within the areas of anti-tank helicopter operations and man-computer interactions: Study trip to USA, May-June 1983
[FOA-C-53012-H2] 10 p1552 N84-20172
Analysis of incidents during helicopter missions
[FOA-C-53016-H2] 18 p2790 N84-27706
Correlations between incidents during helicopter missions and background variables and moods
[FOA-C-53017-H2] 18 p2790 N84-27707

CARLTON, C. H.
Propellant nonlinear constitutive theory extension: Preliminary results
[AD-A133364] 06 p0812 N84-15287
Solid propellant nonlinear constitutive theory extension
[AD-A139957] 15 p2304 N84-24823

CARMACK, L.
Mathematical simulation of the cardiopulmonary system
[AD-A135460] 08 p1200 N84-17822

CARMI, U.
Homogeneous reactions of hydrocarbons, silane, and chlorosilanes in radiofrequency plasmas at low pressures
[NASA-TP-2301] 11 p1626 N84-20643
Radical and ion molecule mechanisms in the polymerization of hydrocarbons and chlorosilanes in RF plasmas at low pressures (1.0 torr)
[NASA-TM-83602] 11 p1736 N84-21329
Correlations between plasma variables and the deposition process of Si films from chlorosilanes in low pressure RF plasma of argon and hydrogen
[NASA-TM-83603] 11 p1737 N84-21330

CARMICHAEL, H. J.
Multistability, self-oscillation and chaos in nonlinear optics 14 p2232 N84-24387

CARMICHAEL, R. L.
A collection of procedures for defining airplane surfaces for input to PANAIR 12 p1875 N84-22220

CARMICHAEL, R. S.
Use of MAGSAT anomaly data for crustal structure and mineral resources in the US midcontinent
[E84-10112] 13 p2005 N84-23005

CARMONA, W. F.
Computer programs for helicopter high speed flight analysis
[AD-A136376] 09 p1255 N84-18191

CARNAHAN, T. M.
Microcomputer networking: A CP/M-Based application
[AD-A134124] 05 p0718 N84-14707

CARNAY, R. F. A.
The detection of pitting corrosion in stainless steel using double-layer activation
[AERE-R-9751] 01 p0047 N84-10304

CARNE, T. G.
Combined experimental/analytical modeling using component mode synthesis
[DE84-013147] 21 p3423 N84-31715

CARNEGIS, G. A.
Slotted waveguide array antennas for spaceborne SAR applications 07 p0987 N84-16397

CARNEIRODEBARROS, R. M. M.
Buckling analysis of end restrained imperfect tubular beam columns 05 p0691 N84-14539

CARNES, B. A.
Estimation of the ridge constant: An approach based on the condition index
[DE83-017955] 03 p0428 N84-12805

CARNES, J. G.
Preliminary evaluation of Thematic Mapper image data quality 20 p3214 N84-30415
Spectral characterization of biophysical characteristics in a boreal forest: Relationship between Thematic Mapper band reflectance and leaf area index for Aspen
23 p3766 N84-33875

CARNEY, J. K.
GaAs gigabit monolithic optoelectronic transmitter
[AD-A136894] 10 p1589 N84-20413

CARNEY, R. R.
A graphics subsystem retrofit design for the bladed-disk data acquisition system
[NASA-TM-83510] 03 p0418 N84-12730

CARNIGLIA, C. K.
Damage thresholds of thin film materials and high reflectors at 248 nm
[DE83-012663] 03 p0380 N84-12472
Recent damage results for antireflection coatings at 355 NM
[DE84-011560] 21 p3371 N84-31388

CARNOCHAN, D. J.
Catalogue of stellar ultraviolet fluxes. A compilation of absolute stellar fluxes measured by the Sky Survey Telescope (S2/68) aboard the ESRO satellite TD-1
15 p2423 N84-25558

CARO, R. G.
Laser techniques for extreme-ultraviolet spectroscopy
[DE83-014834] 02 p0227 N84-11486

CAROME, E. F.
Studies of the propagation of elastic waves in fluids and solids
[AD-A137603] 11 p1729 N84-21278

CARON, L. M.
An inventory of state natural resources information systems
[E84-10072] 07 p1020 N84-16619

CAROSELLA, D. P.
Comparison of calculated results from 2 analytical models with measured data from a heat-exchanger flow test
[DE83-013071] 01 p0082 N84-10534

CARPENDER, M.
Ten year trends in US technological dependence on foreign technology as indicated by referencing from US patents. Appendix
[PB84-196997] 22 p3669 N84-33255
Ten year trends in US technological dependence on foreign technology as indicated by referencing from US patents
[PB84-197003] 22 p3669 N84-33256

CARPENTER, C. G.
V/STOL (Vertical/Short Takeoff and Landing) low speed and transition equivalent systems analysis
[AD-A131955] 03 p0330 N84-12156

CARPENTER, J. A.
KWIC index for numerical linear algebra
[DE83-014889] 01 p0135 N84-10882

CARPENTER, J. F.
Processing science for AS/3501-6 carbon/epoxy composites
[AD-A132323] 04 p0506 N84-13316

CARPENTER, K. G.
A study of magnetic, line-blanketed model atmospheres 05 p0762 N84-15001
Measurements of chromospheric densities and geometrical extensions of late-type giant and super-giant stars
[NASA-CR-175236] 07 p1069 N84-17079

CARPENTER, K. H.
Research support for plasma diagnostics on Elmo Bumpy Torus - development of a multichannel Hall-probe based diamagnetic diagnostic instrument and observation and modeling of EBT electron rings
[DE84-008810] 18 p2933 N84-28600

CARPENTER, L. D.
Data base management system of the National Low-Level Radioactive Waste Management Program
[DE84-012789] 21 p3519 N84-32291

CARPENTER, M. P.
Further delineation of the utilization of scientific literature by U.S. patents
[PB84-100734] 08 p1238 N84-18095
Further delineation of the utilization of scientific literature by U.S. patents. Appendices A: Distribution of references contained in patents to various sources
[PB84-100742] 08 p1239 N84-18096

CARPENTER, M. S. H.
Preliminary studies of the total cation exchange capacity of sediments from two North Atlantic study sites
[IOS-158] 19 p3062 N84-29430

CARPENTER, R. D.
Synthesis of energetic prepolymers
[AD-A135770] 09 p1288 N84-18409

CARPENTER, R. L.
Quality engineering and control
[DE84-011603] 20 p3150 N84-30001

CARPENTER, S. H.
Changes in acoustic emission peaks in precipitation strengthened alloys with heat tretment
[DE83-013611] 01 p0045 N84-10289
Rubber removal from porous friction course
[FAA-PM-83-31] 02 p0182 N84-11184

CARPENTER, T.
A multivariable regression algorithm
[AD-A136630] 09 p1382 N84-19026

CARPENTER, T. W.
Investigation of combustion characteristics of a high chamber pressure rocket motor
13 p1952 N84-22693

CARPER, C. H.
Army helicopter crashworthiness
06 p0777 N84-15090

CARPER, D. M.
Large deformation behavior of long shallow cylindrical composite panels
[NASA-CR-173286] 13 p2000 N84-22975

CARR, D. B.
Weighted nonparametric tail estimation procedures
[DE83-017870] 03 p0428 N84-12804

CARR, J.
The 1-dimensional structured phase transformations under prescribed loads
[AD-A132807] 05 p0736 N84-14835
Abelian integrals and bifurcation theory
[AD-A142198] 19 p3089 N84-29613

CARR, K. E.
Ultrastructural effects of radiation on cells and tissues: Concluding remarks
[DE84-003454] 10 p1545 N84-20131

CARR, K. R.
Rotational viscometer for high-pressure, high-temperature fluids
[DE84-011094] 20 p3190 N84-30264

CARR, L. W.
Calculation of boundary layers of oscillating airfoils
[NASA-TM-85943] 21 p3398 N84-31554

CARR, M. H.
The structure of the Ionian lithosphere
13 p2073 N84-23435
Freezing of Martian streams under climatic conditions
13 p2083 N84-23496

CARR, M. J.
Densification of shock-treated aluminum nitride and aluminum oxide
[DE84-003251] 07 p0968 N84-16273
Plasma-initiated laser deposition of polycrystalline and monocrystalline silicon films
[DE84-005527] 13 p1996 N84-22953

CARR, R.
Fragmentation of small molecules following soft X-ray excitation
[DE83-011645] 02 p0289 N84-11896

CARR, R. E.
Facilities for meteorological research at NASA Goddard/Wallops Flight Facility
[NASA-TM-84422] 15 p2371 N84-25223

CARR, R. W., JR.
Continuous chemical reaction chromatography
[DE84-004089] 10 p1456 N84-19509

CARR, W. J.
Southern Great Basin seismological data report for 1981 and preliminary data analysis
[DE84-005687] 15 p2369 N84-25213
Stratigraphic and volcano-tectonic relations of Crater Flat Tuff and some older volcanic units, Nye County, Nevada
[DE84-010926] 20 p3242 N84-30584

CARRANO, A. V.
Statistical analysis of high SCE frequency cells in human lymphocytes
[DE84-005433] 11 p1693 N84-21042

CARRARA, V.
Recursive analysis of the geomagnetic vector field
[INPE-2865-PRE/400] 02 p0272 N84-11776
Simulation and analysis of low altitude terrestrial satellites
[INPE-2754-PRE/330] 04 p0488 N84-13209
Optimal position of solar arrays on sunsychronous satellites
[INPE-3010-RPE/454] 17 p2614 N84-26732

CARRASCO, J. F.
Telemetry/Telecommand (TM/TC) processor study
[MATRA-144-TM-TC-03-002] 23 p3699 N84-33448

CARRASQUILLO, R. L.
Analysis of a high-strength concrete model under biaxial compression
[AD-A137050] 10 p1518 N84-19935

CARRAWAY, P. I., III
Design of multivariable feedback control systems via spectral assignment using reduced-order models and reduced-order observers
[NASA-CR-173448] 18 p2923 N84-28537

CARRAZZA, J.
Adsorption and catalyzed reactions of CO and CO2 on graphite surfaces
[DE84-006625] 14 p2123 N84-23725

CARRE, D. J.
Tricresyl phosphate retention by bearing retainer and reservoir materials
[AD-A143842] 23 p3724 N84-33598

CARRE, R.
Non-invasive methods of cardiovascular exploration in aerospace medicine
[AGARD-AG-277(E)] 11 p1699 N84-21082
Main electrocardiographic abnormalities in the medical examination of flying personnel
11 p1699 N84-21083
Contribution of cardiac mechanograms in the expert examination of flying personnel
11 p1700 N84-21089

CARREGA, M.
Properties of polymers: Some uses in electronics, part 1
[DE84-012863] 21 p3370 N84-31386

CARREIRO, L.
Homogeneity and magnetic susceptibility in some substituted cadmium spinels
[AD-A135297] 08 p1131 N84-17357

CARRENO, V. A.
Upset susceptibility study employing circuit analysis and digital simulation
[NASA-TM-85822] 17 p2733 N84-27374

CARREON, N.
Models of purposive human organization: A comparative study
[AD-A138871] 14 p2247 N84-24491

CARRERAS, B. A.
Experimental results on finite-beta limits and transport in the ISX-B Tokamak
[DE84-000258] 04 p0606 N84-14001
ATF-1 torsatron studies
[DE84-003314] 09 p1392 N84-19089
Theory of anomalous tearing mode growth and the major Tokamak disruption
[DE84-005383] 12 p1911 N84-22448
Equilibrium calculations for helical axis stellarators
[DE84-010636] 18 p2933 N84-28598
Nonlinear interaction of tearing modes: A comparison between the Tokamak and the reversed field pinch configurations
[DE84-010582] 18 p2934 N84-28606
Reliability of initial-value MHD calculations of Tokamak disruptions
[DE84-013600] 22 p3659 N84-33193

CARRERAS, E. A.
Equilibrium studies for low-aspect-ratio torsatrons
[DE84-002264] 06 p0920 N84-15979

CARRETERO, S.
Residual curing stress of carbon-resin composites
[ONERA-RT-6/3521-M] 20 p3147 N84-29980

CARRIER, G. F.
Conditions for two-cell structure in severe vortical storms
[AD-A138242] 17 p2734 N84-27381

CARRILLO, M. J.
A development of logistics management models for the Space Transportation System
[NASA-CR-173504] 14 p2113 N84-23664

CARRILLO, S.
RF design and performance of a multibeam, multiband antenna
[AD-P003512] 21 p3385 N84-31480

CARROLL, D.
Propagation of a radio-frequency pulsed signal over the Earth. The JOLLY programs
[DE84-000109] 04 p0523 N84-13439

CARROLL, J. C.
Spectrum resource assessment in the 5650-5925 MHz
[PB84-127430] 09 p1305 N84-18530

CARROLL, J. J.
Evaluation of airborne lidar wind measurements
24 p3928 N84-34865

CARROLL, J. W.
Problem definition study on emission by-product hazards from diesel engines for confined space Army workplaces
[AD-A141377] 19 p3052 N84-29367

CARROLL, M. A.
Experimental study of the fluxes of reduced sulfur gasses from a salt water marsh
[PB84-159318] 14 p2181 N84-24064

CARROLL, M. M.
PVC (polyvinylchloride) pipe reliability and failure modes
[DE84-013862] 23 p3725 N84-33604

CARROLL, R.
Detectors at 20 TeV and detector considerations for a high luminosity hadron-hadron machine
06 p0911 N84-15920
DEM (digital grid-point elevation models) synthesis from three-dimensional cartographic data
[AD-A140211] 16 p2510 N84-26109

CARROLL, R. J.
On the maximum likelihood estimate for logistic errors-in-variables regression models
[AD-A133253] 06 p0904 N84-15868
Research in stochastic processes
[AD-A136222] 09 p1381 N84-19018
Research in stochastic processes
[AD-A137736] 11 p1717 N84-21202
Indicators of hazard for polycyclic organic matter
[PB84-167493] 15 p2288 N84-24730

CARROLL, T.
Trigger systems which could operate at a luminosity of 10/sup 33 cm(-2) to sec/sup -1
06 p0911 N84-15918

CARROLL, T. J.
The kinematics of the emission line gas in quasars and active galactic nuclei 21 p3524 N84-32326

CARROLL, W. F.
Research on the use of space resources
[NASA-CR-173213] 07 p0961 N84-16227

CARROLL, W. L.
The predicted impact of linear roof apertures on the energy performance of office buildings
16 p2514 N84-26133

CARROZZO, O.
On the stick-free longitudinal dynamic stability of a general aviation aircraft equipped with an all-movable horizontal tail 18 p2797 N84-27748

CARRUTHERS, G. R.
An extreme ultraviolet spectrometer experiment for the Shuttle Get Away Special Program
18 p2801 N84-27778

CARRUTHERS, P.
Hadronic multiplicity distributions: Example of a universal stochastic mechanism
[DE83-015232] 03 p0434 N84-12845

CARSEY, F. D.
Antartic sea ice, 1973 - 1976: Satellite passive-microwave observations
[NASA-SP-459] 01 p0110 N84-10718
Radar image interpretation techniques applied to sea ice geophysical problems 07 p0990 N84-16413

CARSON, D. J.
The use of observational studies in the design of oceanic atmospheric boundary layer parameterizations in atmospheric circulation models, appendix E
18 p2884 N84-28300

CARSON, G. T., JR.
Aeropropulsive characteristics of nonaxisymmetric-nozzle thrust reversers at Mach numbers from 0 to 1.20
[NASA-TP-2306] 15 p2254 N84-24538
Fuselage and nozzle pressure distributions of a 1/12-scale F-15 propulsion model at transonic speeds. Effect of fuselage modifications and nozzle variables
[NASA-TP-2333] 22 p3531 N84-32354

CARSON, M.
Now: An initial approach to collection of major materiel systems actual costs
[AD-A139845] 15 p2416 N84-25505
Results of a research study to identify historical RDTE (Research, Development, Test and Evaluation) obligations and expenditures on major Army materiel and non-materiel systems
[AD-A139328] 15 p2416 N84-25508

CARSON, W. E.
A study of research needs and priorities in radioactive waste management
[DE84-009045] 20 p3298 N84-30946

CARSWELL, M.
The limits of multiple resource theory in display formatting: Effects of task integration
[AD-P003321] 18 p2910 N84-28457

CARTER, A.
A practical single-mode system, 50 km at 140 mbit/s
11 p1725 N84-21253
CARTER, C.
Women in the sciences
[TB-83-8] 19 p3114 N84-29784
CARTER, C. B.
Migration of grain boundaries in ceramic materials with particular reference to the sintering process
[DE84-004086] 09 p1289 N84-18414
CARTER, C. D.
Saturated laser fluorescence in turbulent sooting flames at high pressure 11 p1612 N84-20551
CARTER, D. A.
The effects of pulse rate, power, width and coding on signal detectability 17 p2685 N84-27093
Discrimination against interfering signals at the Poker Flat MST radar 17 p2685 N84-27097
Techniques for studying gravity waves and turbulence: Horizontal, vertical and temporal resolution needed
17 p2688 N84-27116
Techniques for studying gravity waves and turbulence: Vertical wind speed power spectra from the troposphere and stratosphere obtained under light wind conditions
17 p2688 N84-27120
Capabilities and limitations of existing MST radars: Poker Flat 17 p2690 N84-27133
Signal processing at the Poker Flat MST radar
17 p2695 N84-27169
CARTER, D. J. Q.
The in-flight calibration of a satellite-borne wind scatterometer 23 p3783 N84-33993
CARTER, D. L., JR.
Long Duration Exposure Facility (LDEF). Mission 1 Experiments
[NASA-SP-473] 15 p2270 N84-24632
CARTER, E. M.
Abstract type oriented dynamic vertical migration
[AD-A135840] 09 p1367 N84-18926
CARTER, H. K.
Sensitive collinear laser spectroscopy on fast atom and ion beams
[DE84-003403] 10 p1456 N84-19512
CARTER, J.
Active noise reduction
[AD-A139741] 15 p2404 N84-25428
Space Station 23 p3701 N84-33456
CARTER, J. E.
Analysis of transonic shock induced separated flow including normal pressure gradients
[AD-A137052] 10 p1422 N84-19298
ALESEP: A computer program for the analysis of airfoil leading edge separation bubbles
[NASA-CR-172310] 13 p1926 N84-22537
Analysis of airfoil transitional separation bubbles
[NASA-CR-3791] 20 p3126 N84-29854
CARTER, J. G.
Electron-drift velocity and ionization and attachment coefficients in gases/mixtures for diffuse-discharge opening switches
[DE83-017206] 04 p0609 N84-14017
Transport properties and dielectric strengths of gas mixtures for use in diffuse discharge opening switches
[DE84-011444] 21 p3394 N84-31536
CARTER, J. L.
Distributed pulse forming network for magnetic modulator
[AD-D011062] 23 p3791 N84-34041
CARTER, J. P.
Acidic deposition and the corrosion and deterioration of materials in the atmosphere: A bibliography, 1880 - 1982
[PB83-236091] 01 p0047 N84-10302
CARTER, J. R.
Computer program to simulate digital computer based longitudinal flight control laws in a high performance aircraft
[AD-A140143] 16 p2451 N84-25719
CARTER, L. D.
A pleistocene sand desert in Arctic Alaska
14 p2165 N84-23966
CARTER, L. L.
Transmission of fast neutrons from the Li(d,xn) reaction through thick iron
[DE83-015975] 03 p0439 N84-12884
CARTER, M.
Arrays of very small voltammetric electrodes based on reticulated vitreous carbon
[AD-A134031] 05 p0674 N84-14426
CARTER, R. D. G.
NASA rotor system research aircraft flight-test data report: Helicopter and compound configuration
[NASA-TM-85843] 22 p3535 N84-32381
CARTER, R. E.
Calculation of shuttle base heating environments and comparison with flight data 01 p0023 N84-10145
CARTER, R. J.
An investigation of geometric radar shapes for stereotyping
[AD-A131120] 03 p0459 N84-13020
CARTER, T. R.
Assessing the impact of climatic change in cold regions
[IIASA-SR-84-1] 19 p3057 N84-29394
CARTERET, Y.
Irradiation creep of solution annealed and coldworked 316 stainless steel
[DE84-780404] 24 p3885 N84-34613
CARTIER, P.
Annals of the Fourier Institute, volume 34, no. 1
[ISSN-0373-0956] 22 p3633 N84-33025
Annals of the Fourier Institute, volume 34, no. 2
[ISSN-0373-0956] 22 p3635 N84-33038
CARTIER, S. L.
Observations of nonlinear behavior in a low-pressure discharge column
[AD-A132321] 04 p0605 N84-13996
Hysteresis in a low-pressure argon discharge, revision
[AD-A134387] 07 p1076 N84-16995
CARTON, J. A.
Adjustment in the oceans: The long-period tides and coastal upwelling 03 p0413 N84-12702
CARTWRIGHT, D. G.
Multi-sensor surveillance 24 p3914 N84-34780
CARTWRIGHT, M.
Avionics concept evaluation at the force level
06 p0769 N84-15038
CARUSO, J. J.
Application of finite element substructuring to composite micromechanics
[NASA-TM-83729] 21 p3356 N84-31288
CARUTHERS, C.
Guide to graphics at ANL, revised
[DE84-013189] 20 p3274 N84-30786
CARVELL, R.
The ISPM cosmic-ray and solar-particle investigation
09 p1262 N84-18236
CARVER, J. G.
Liquid chromatographic analysis of nitrocellulose-base propellants
[AD-A129005] 01 p0052 N84-10333
CARVER, K. R.
Spaceborne SAR sensor architecture
07 p0987 N84-16394
CARY, J. R.
Construction of three-dimensional vacuum magnetic fields with dense nested flux surfaces
[DE83-012600] 02 p0287 N84-11880
Filamentation instability associated with a relativistic beam and a finite-temperature, collisional plasma
[DE84-002303] 05 p0750 N84-14928
Elimination of stochasticity in stellarators
[DE84-001560] 06 p0921 N84-15985
Free-boundary stability of straight stellarators
[DE84-008272] 14 p2230 N84-24378
CASADO, J.
A program for the automatic request of magnetic tapes filling and reading of its contents (processor PCINTA)
[JEN-545] 04 p0578 N84-13815
CASANOVA, M.
GAME: An interactive graphic system for automatic mesh generation
[CISE-2211] 20 p3275 N84-30790
CASARIN, D. P.
Blocking in the Southern Hemisphere, during 1975-1979
[INPE-2994-PRE/446] 07 p1032 N84-16696
CASARINI, G.
Stress corrosion resistance of structural steels in high chloride environments
[EUR-7435] 17 p2622 N84-26781
CASASAYAS, J.
Qualitative analysis of the anisotropic Kepler problem
23 p3819 N84-34221
CASASENT, D.
Optical pattern recognition for missile guidance
[AD-A130097] 01 p0018 N84-10113
Optical data processing for missile guidance
[AD-A136216] 09 p1254 N84-18188
Optical systolic solutions of linear algebraic equations
12 p1905 N84-22405
CASE, A. L.
INTERMD: A computer program to predict intermodulation product generation on two-way FM radio frequencies
[DE84-013767] 22 p3578 N84-32661
CASE, E. D.
Micro and macro mechanics of fracture in ceramics
[AD-A137290] 10 p1465 N84-19572
CASE, F. N.
Evaluation of arctic test of tritium radioluminescent lighting
[AD-A139176] 14 p2104 N84-23619
CASE, J. F.
Properties of the deep scattering layer analyzed in terms of bioluminescent behavior of its components
[AD-A143849] 23 p3803 N84-34113
CASE, W. R.
A NASTRAN DMAP procedure for calculation of base excitation modal participation factors
06 p0859 N84-15599
Accuracy of three dimensional solid finite elements
22 p3609 N84-32867
CASELLES, V.
Use of satellites in frost forecasting: SIPHES
23 p3775 N84-33931
CASEY, A. W.
Modes of deformation and failure of Kevlar 49 fibers and composites
[DE84-004162] 13 p1954 N84-22706
CASEY, C. P.
Mechanistic studies related to the metal catalyzed reduction of carbon monoxide to hydrocarbons
[DE84-007963] 15 p2286 N84-24729
CASEY, K. F.
Applications of Riemann-Hilbert problem techniques to electromagnetic coupling through apertures
[DE84-009532] 19 p3009 N84-29073
CASEY, T. J.
Powerplant selection for conceptual helicopter design
[AD-A132982] 05 p0632 N84-14153
CASINI, R.
Study of advanced signal processing and calibration for IRES (infrared sensors)
[REPT-458-DT-5] 12 p1782 N84-21628
CASKEY, G. R., JR.
Hydrogen compatibility handbook for stainless steels
[DE83-017051] 03 p0354 N84-12301
Helium damage in austenitic stainless steels
[DE83-017494] 03 p0355 N84-12309
Hydrogen effects in stainless steel
[DE84-003483] 07 p0976 N84-16325
CASNER, S. L.
Issues in satellite packet video communication
[AD-A135942] 09 p1303 N84-18515
CASPAR, J. R.
A linear aerodynamic analysis for unsteady transonic cascades
[NASA-CR-3833] 22 p3531 N84-32355
CASPER, T. A.
TMX-U experimental results
[DE83-016790] 03 p0449 N84-12955
CASPERSON, J.
Concurrency of design criteria: A key to trainer readiness
[AD-P003454] 21 p3509 N84-32231
CASPI, S.
Heat transfer to subcooled HE 1
[DE83-017767] 04 p0535 N84-13520
CASS, J. R., JR.
Discontinuous low thrust orbit transfer
[AD-A136908] 10 p1451 N84-19474
CASSADY, M.
Quality assurance of heat-fused polyethylene plastic pipe joints, phase 2
[PB84-104942] 08 p1168 N84-17608
CASSADY, P.
Investigation of water rotor turbofans for Cruise Missile engines, volume 2
[AD-A131168] 02 p0180 N84-11173
Investigation of wave rotor turbofans for Cruise Missile engines, volume 1
[AD-A131167] 02 p0180 N84-11174
CASSANOVA, R. A.
Achievements and plans of the Solar Thermal Advanced Research Center
[DE84-005480] 14 p2172 N84-24010
CASSATELLA, A.
The 1978 - 1984 fading of the Seyfert 1 galaxy F-9
24 p3972 N84-35149
Shell ejection phenomena in the hypergiant star P Cygni 24 p3977 N84-35189
Optical and ultraviolet observations of FK Comae stars 24 p3978 N84-35198
A new outburst of Z Andromedae
24 p3979 N84-35209
CASSEDAY, M. W.
A new multifunction acousto-optic signal processor
12 p1906 N84-22413
CASSENTI, B. N.
Research and development program for the development of advanced time-temperature dependent constitutive relationships. Volume 1: Theoretical discussion
[NASA-CR-168191-VOL-1] 01 p0094 N84-10613

Research and development program for the development of advanced time-temperature dependent constitutive relationships. Volume 2: Programming manual
[NASA-CR-168191-VOL-2] 01 p0094 N84-10614

CASSI, C.
The influence of sensor and thruster imperfections on the attitude and position of a spacecraft performing a rendezvous 15 p2267 N84-24615

CASSIDY, J. F.
Simulation of edge effects in electroanalytical experiments by orthogonal collocation. Part 4: Application to voltammetric experiments
[AD-A136988] 10 p1455 N84-19500

CASSIDY, P. E.
Effects of stress on permeation and polyurethane degradation
[AD-A140260] 16 p2472 N84-25841
Synthesis of resin polymers for chemical agent defense
[AD-A141035] 18 p2818 N84-27892

CASSIDY, S. A.
A radically new approach to the installation of optical fibre using the viscous flow of air 11 p1724 N84-21247

CASSIER, A.
The development of the Navy variant of the Dauphin 2 helicopter
[SNIAS-832-210-106] 16 p2448 N84-25706

CASSIER, G.
Canonic measurements in the classic moment problem 22 p3635 N84-33041

CASSINELLI, J. E.
Study of solar array switching power management technology for space power system
[NASA-CR-167890-EXEC-SUM] 13 p2008 N84-23021

CASSINELLI, J. P.
The winds and coronae of early-type stars 03 p0469 N84-13086

CASTAGNOLI, F.
The Istituto di Ricerca sulle Onde Elettromagnetiche (IROE)-lidar remote sensing of the environment 03 p0396 N84-12590
Laser remote sensing at IROE 24 p3907 N84-34747

CASTANEDA, C. M.
Transmission of fast neutrons from the Li(d,xn) reaction through thick iron
[DE83-015975] 03 p0439 N84-12884

CASTANON, D. A.
Informational aspects of a class of subjective games of incomplete information
[AD-P002910] 13 p1981 N84-22862

CASTELLANI, A.
Some trends in airship technology developments
[AGARD-R-717] 03 p0314 N84-12050

CASTELLANI, V.
IUE integrated spectra of galactic globular clusters 24 p3962 N84-35230

CASTELLANO, M. G.
Study of a gravitational antenna coupled to a resonant capacitive transducer: Equivalent circuit and noise spectra
[IFSI-82-3] 05 p0677 N84-14450

CASTELLI, F.
An upper limit to the Beryllium abundance in the population 2 star HD 140283 from a high resoluion IUE spectrum 24 p3974 N84-35167
Standard stars: Automatic line identification of IUE high resolution spectra 24 p3981 N84-35225

CASTI, T. E.
The effect of dimensionality on solar spectrum curves
[DE84-014136] 22 p3680 N84-33327

CASTILLA, F.
Fixity of members embedded in concrete
[AD-A138862] 13 p1974 N84-22810

CASTILLO, S.
The effect of fluids on waveguides below cutoff penetrations as related to electromagnetic shielding effectiveness
[AD-A144685] 24 p3896 N84-34670

CASTLE, J. G., JR.
Transient response of GaAs microwave power FET to X-ray pulses
[DE84-006816] 19 p3019 N84-29139
Transient response of GaAs microwave power FET to X-ray pulses
[DE84-010145] 20 p3309 N84-31017

CASTLE, K. R.
In-flight absolute radiometric calibration of the thematic mapper
[E84-10044] 04 p0552 N84-13637
In-flight absolute radiometric calibration of the thematic mapper
[E84-10064] 06 p0865 N84-15633
In-flight absolute radiometric calibration of the Thematic Mapper 13 p2004 N84-23002
In-flight absolute radiometric calibration of the Thematic Mapper 20 p3208 N84-30383

CASTLEMAN, A. W., JR.
Studies of ions in a drift field: Laser diagnostics of excited states and measurements of thermochemical properties at equilibrium
[DE84-000363] 04 p0541 N84-13562
Introduction: Advances and opportunities in cluster research
[DE84-000364] 04 p0594 N84-13917

CASTLES, R. R.
Theory of exterior and harmonic eigenstrains 16 p2503 N84-26065

CASTLES, S.
Design of an adiabatic demagnetization refrigerator for studies in astrophysics 06 p0821 N84-15352

CASTLETON, R. N.
DEC LSI-11/HP9895A software
[DE84-012412] 21 p3462 N84-31952

CASTOR, B.
SREM (Software Requirements Engineering Methodology) evaluation, volume 1
[AD-A141631] 19 p3077 N84-29525
SREM (Software Requirements Engineering Methodology) evaluation. Volume 2: Specifications and technical data
[AD-A141632] 19 p3078 N84-29526

CASTOR, J. I.
Problems in astrophysical radiation hydrodynamics
[DE84-000185] 06 p0939 N84-16102
Spectral variability in early-type binary X-ray systems
[NASA-TM-86060] 09 p1407 N84-19195

CASTORE, G.
A survey of robotic technology
[AD-A130999] 02 p0269 N84-11762

CASTREJON, A.
Unsteady laminar natural convection inside an annular cavity
[CFD-83/8] 18 p2838 N84-28014

CASTRO, P. M.
Analysis of a high-strength concrete model under biaxial compression
[AD-A137050] 10 p1518 N84-19935

CATALA, C.
The wind and chromosphere of the Herbig Ae star AB Aur as seen by IUE 24 p3975 N84-35173

CATALANO, S.
Emission lines in the UV spectrum of alpha Tau 24 p3974 N84-35168
Coordinated IUE and ground-based observations of active stars: Flare events on YZ CMi, V 1005 ORI, AD Leo and AR Lac 24 p3975 N84-35177
Rotational modulation of spots and plages on RSCVn stars 24 p3978 N84-35196

CATALDO, R. L.
Design of a 1-kWh bipolar nickel hydrogen battery
[NASA-TM-83647] 13 p2008 N84-23024
Test results of a ten cell bipolar nickel-hydrogen battery 23 p3739 N84-33702

CATANI
System concepts for helicopter air-to-air combat
[SNIAS-832-210-102] 16 p2448 N84-25705

CATEL, P.
Towards a modularity of software conceived for the requirement of the user 06 p0769 N84-15040

CATES, M. R.
Use of fiber optics and laser-induced fluorescence for remote measurements of UF6 in strong rotation
[DE83-014195] 01 p0088 N84-10575

CATES, R. H.
Humidity control: The pattern for change 11 p1639 N84-20718

CATHCART, J. V.
Oxidation of Inconel alloy MA754 at low oxidation potential
[DE83-017191] 04 p0501 N84-13288

CATHEY, J. J.
Harmonic control to reduce torque pulsations in brushless dc motor drives
[AD-A144216] 24 p3897 N84-34677

CATHONNET, M.
Experimental study and modeling of the kinetics of hydrocarbon combustion 15 p2292 N84-24754

CATLIN, W. R.
Environmental crack-growth-measurement techniques
[DE83-900734] 01 p0097 N84-10630

CATS, G. J.
A scheme for mass and wind analysis on a limited area using multivariate three-dimensional optimum interpolation: Scientific documentation and first evaluation
[KNMI-TR-46] 17 p2734 N84-27382

CATS, M. R.
Remote thermometry of moving surfaces by laser-induced fluorescence of surface-bonded phosphor
[DE84-004264] 10 p1498 N84-19792

CATTARIN, G.
A digital ferrite phase-shifter for high power S-band operation 06 p0906 N84-15886

CATTLE, H.
Comments on atmospheric boundary layer forcing of ocean models, appendix J 18 p2885 N84-28305

CATTO, P. J.
Introduction to tandem mirror physics
[DE84-006644] 12 p1911 N84-22451
Azimuthal electric fields and tandem ambipolarity
[DE84-010843] 21 p3501 N84-32189

CAU, J. P.
SPOT on-board software test and validation: Methodology and tools 05 p0724 N84-14755

CAUBLE, R.
Atomic structure in strongly coupled neon plasmas
[AD-A137341] 10 p1576 N84-20327
Research in dense plasma atomic physics
[AD-A141538] 19 p3107 N84-29740

CAUDY, D. W.
Frictional hold of various sheave configurations on synthetic ropes
[AD-A139808] 15 p2343 N84-25067

CAUGHEY, D. A.
Comparison of calculated and measured pressures on straight and swept-tip model rotor blades
[NASA-TM-85872] 07 p0947 N84-16143

CAUGHLIN, D. J., JR.
Bank-to-turn control
[AD-A132491] 04 p0489 N84-13214

CAULEY, M. A.
The subjective effect of multiple co-channel frequency modulated television interference
[NASA-TM-83415] 02 p0208 N84-11360

CAULFIELD, H. J.
Luneburg lens and optical matrix algebra research
[NASA-CR-172276] 08 p1231 N84-18047
Automatic holographic droplet analysis for liquid fuel sprays 11 p1609 N84-20531
The applications of silicon liquid crystal light valves to optical data processing: A review 12 p1905 N84-22409
Systolic triple-matrix product calculations 12 p1906 N84-22419

CAUSEY, E. M.
Survey of automated statewide natural resource information systems
[AD-A139017] 14 p2170 N84-23996

CAUVIN, R.
Irradiation creep of solution annealed and coldworked 316 stainless steel
[DE84-780404] 24 p3885 N84-34613

CAVAGROTTI, R. R.
Assessment of the environmental aspects of the DOE phosphoric acid fuel cell program
[NASA-CR-168131] 01 p0102 N84-10663

CAVALCANTI, I. F. A.
The southern oscilation: Oceanic-atmospheric circulation changes and related rainfall anomalies
[INPE-2903-PRE/420] 02 p0253 N84-11656
Southern oscillation-El Nino events: Characteristics, evolution, and precipitation anomalies
[INPE-2976-PRE/438] 22 p3627 N84-32983

CAVALIERE, A.
Characterization of heavy oil sprays in isothermal and burning conditions with laser light scattering measurements in the sideward region 15 p2294 N84-24766

CAVALIERI, D. J.
Passive microwave characteristics of the Bering Sea ice cover during Marginal Ice Zone Experiment (MIZEX) West 23 p3773 N84-33917

CAVASSO, I.
Encapsulated multifunction corrosion inhibitive primer
[AD-A144311] 24 p3889 N84-34626

CAVATORTA, E.
On the stick-free longitudinal dynamic stability of a general aviation aircraft equipped with an all-movable horizontal tail 18 p2797 N84-27748

CAVAZZA, L.
Geographic operators for management of a data base for frequency planning 10 p1476 N84-19646

CAVERLY, J. C.
Ceramic life prediction methodology - hot spin disc life program
[AD-A134783] 08 p1138 N84-17400

CAVERLY, P.
Experiences in teaching Ada (trademark)
[AD-P003419] 20 p3270 N84-30751

CAVES, T. C.
Many electron effects in the photoelectron spectra of condensed nitric oxide
[AD-A138130] 12 p1791 N84-21681
CAVICCHI, R. H.
Design and performance of a fixed, nonaccelerating, guide vane cascade that operates over an inlet flow angle range of 60 deg
[NASA-TM-83519] 05 p0626 N84-14120
CAVOLA, R. G.
Technical and economic investigations of a low-temperature Rankine-cycle heat engine
[DE83-016757] 01 p0091 N84-10596
CAWLEY, J. D.
Overview of zirconia with respect to gas turbine applications
[NASA-TP-2286] 12 p1801 N84-21740
Oxidizing seal for a turbine tip gas path
[NASA-CASE-LEW-14053-1] 13 p1932 N84-22563
Oxygen diffusion in alpha-Al2O3
[NASA-TM-83622] 19 p2997 N84-28990
CAYLOR, M. J.
An experimental and analytic study of the flow subsonic wind tunnel inlets
[AD-A138865] 13 p1927 N84-22540
CAYTON, T.
Psychological and biochemical effects of a stress management program
[AD-P003300] 18 p2909 N84-28447
CAZIER, F. W., JR.
Measured transonic unsteady pressures on an energy efficient transport wing with oscillating control surfaces
18 p2783 N84-27663
Ground vibration test of F-16 airplane with initial decoupler pylon
[NASA-TM-86259] 24 p3854 N84-34439
CEBALLOS, D. C.
Compensating technique using one active control scheme to nullify the acummulated effect of modelling deviation
[INPE-3181-PRE/546] 21 p3471 N84-31996
Controller technique of compensation figured in an active control scheme on the accumulated effects of deviation in the modeling
[INPE-2987-TDL/152] 22 p3643 N84-33100
CEBECI, T.
Unsteady boundary layers on thin bodies of revolution
[AD-A136257] 09 p1313 N84-18583
Calculation of boundary layers of oscillating airfoils
[NASA-TM-85943] 21 p3398 N84-31554
CEBRIAN, P. E. M.
Study on the influence of X-ray focus on the image quality in radiological systems 17 p2764 N84-27555
CEBULA, R. P.
Morning twilight observations of the zodiacal light and terrestrial airglow 16 p2526 N84-26222
CECCHI, J. L.
Method of enhancing selective isotope desorption from metals
[DE84-011031] 20 p3156 N84-30044
CECCO, V. S.
B-scan displays of ultrasonic time-of-flight diffraction tests of compact tension specimens
[AERE-R-11010] 18 p2854 N84-28126
CECCONI, L.
Study of advanced signal processing and calibration for IRES (infrared sensors)
[REPT-458-DT-5] 12 p1782 N84-21628
CEDRONE, L.
Verification of asynchronous transmissions
[PB84-189885] 20 p3268 N84-30738
CEFOLA, P.
Satellite orbit theory for a small computer
[AD-A139406] 14 p2112 N84-23660
CEGLIO, N.
Time-resolved spectral measurements above 80 A
[DE83-015616] 03 p0446 N84-12933
Advances in transmission X-ray optics
[DE84-007235] 14 p2225 N84-24354
Soft X-ray laser experiments at Norvette Laser Facility
[DE84-012594] 21 p3410 N84-31627
CELLIER, M.
Assessment of data handling configuration for on-board operation system definition
[DM55/JPS/JP/321.82] 19 p2982 N84-28898
CELMINS, A.
Non-linear multidimensional models, least squares and reduced residuals
[AD-P002950] 14 p2198 N84-24190
CELMINS, A. K. R.
Error analysis of vapor pressure measurements
[AD-A137584] 11 p1728 N84-21271
CELORIER, G. M.
Integrated gas-fired space heating/water heating system with electric air conditioning
[PB84-181999] 20 p3171 N84-30138
CENGIZ, B.
Lower and upper bounds for EXP d+(X,Y)
15 p2401 N84-25408
CENIVAL, M.
Auxiliary power units for wide-body aircraft
03 p0334 N84-12174
CEPUROV, A. I.
The octahedron-rhombododecahedron morphological series of synthetic diamond crystals
[CSIR-TRANS-1746] 22 p3661 N84-33205
CERAMI, G.
Bifurcation and multiplicity results for nonlinear elliptic problems involving critical sobolev exponents
[AD-A139332] 14 p2219 N84-24315
CERIOTTI, A.
The role of aeroelasticity in the preliminary design of helicopter rotors 02 p0172 N84-11130
CERNANSKY, N. P.
Combustion characteristics in the transition region of liquid fuel sprays
[NASA-CR-175396] 10 p1454 N84-19495
Combustion characteristics in the transition region of liquid fuel sprays 11 p1609 N84-20534
CERNI, D. M.
International Telecommunication Standards: Issues and implications for the '80's
[PB83-241471] 03 p0363 N84-12366
CERNI, T. A.
Cloud physics investigations by the University of Wyoming in HIPLEX 1977-1982
[PB84-106756] 08 p1192 N84-17770
CERNY, G. A.
Ceramic coatings for heat engine materials: Status and future needs
[DE84-003401] 10 p1468 N84-19590
CERRA, A. W., JR.
Experimental observations of vortex ring interaction with the fluid adjacent to a surface
[AD-A138999] 13 p1990 N84-22917
CERTO, M.
A comparison between new and traditional ultrasonic techniques on thick welds in pressure vessels
[CISE-2074] 05 p0690 N84-14534
The use of matrix transducers in medium thickness welding inspection
[CISE-2075] 06 p0855 N84-15572
CERULLI-IRELLI, P.
Computer graphics hardware and software of the HP 1000F system
[IFSI-82-8] 05 p0720 N84-14720
Description of the Gornergrat telescope control system
[IFSI-84-3] 18 p2850 N84-28096
CERUZZI, A. D.
Hermetic single longitudinal mode CW lasers coupled to single mode optical fiber pigtails
[AD-A143626] 23 p3754 N84-33792
CERVELLI, J. D.
Automated helium gas metering system
[DE84-015083] 23 p3751 N84-33779
CERVENKA, P. O.
Detailed design of a variable volume hydrogen maser
[NASA-CR-175221] 11 p1662 N84-20841
CESS, R. D.
Commentary on the recent CO2-climate controversy
[DE83-016367] 04 p0565 N84-13722
Influence of stratospheric aerosols forming during combustion of rocket fuels on Earth's albedo
11 p1670 N84-20899
CESSNA, J. R.
The GOES X-ray imager feasibility demonstration
[PB84-111970] 09 p1319 N84-18614
CETINER, M. S.
Design and development of military petroleum hoseline system
[AD-A134374] 07 p0960 N84-16222
CEYER, S. T.
Chemical reaction dynamics at surfaces
22 p3681 N84-33340
CHA, Y. S.
Liquid metal breeder-coolant blanket concept
[DE84-006554] 20 p3302 N84-30971
CHA, Y. Y.
The decision for the optimal price in competitive bidding: The case of a Korean construction company
[AD-A140556] 17 p2770 N84-27585
CHABASSIEU
Experimental modal analysis
[SNIAS-832-210-110] 16 p2440 N84-25655
CHABOTTE, S. C.
On the frequency of wide pairs among nearby dwarf stars 09 p1412 N84-19236
CHACHICH, A. C.
Microwave-enhanced ignition in diesel engines
[AD-A138148] 12 p1791 N84-21682
CHADWICK, A. V.
Anomalous pressure dependence of dipolar relaxation times in rare earth doped lead fluoride
[AD-A143201] 22 p3662 N84-33215
CHADWICK, R. B.
Radar cross section measurements of wingtip vortices
23 p3775 N84-33934
CHAEL, E. P.
Constraints on the Earth's anelastic and aspherical structure from antipodal surface waves
06 p0876 N84-15700
CHAFFEE, N. H.
Ground test challenges in the development of the Space Shuttle orbiter auxiliary power unit
24 p3862 N84-34478
CHAFFIN, R.
The representation of part-whole information in memory
[PB84-180140] 20 p3263 N84-30701
CHAFFIN, R. J.
Strained layer superlattice materials for millimeter wave FET's, phase 1
[DE84-011475] 20 p3308 N84-31007
Quantum well multijunction photovoltaic cell
[DE84-011113] 21 p3393 N84-31529
CHAFFIN, W., JR.
In-flight evaluation of 2 molecular sieve oxygen concentration systems in US Army aircraft (JUH-1H and JU-21G)
[AD-A140634] 17 p2748 N84-27443
CHAFOULEAS, J.
Role of calmodulin in cell proliferation
02 p0264 N84-11737
CHAGNON, G.
Evaluation of mica substitutes for use in thermal batteries
[AD-A140650] 17 p2723 N84-27330
CHAIBLAINE, Z.
Fracture mechanics formulas on microcomputers
[CETIM-100960] 21 p3424 N84-31722
CHAIKIN, A. A.
Nonuniformity and effectiveness of light collection in a large scintillation counter of ionizing radiation
24 p3994 N84-35277
CHAIKIN, P. M.
Structural studies at elevated pressure and reduced temperatures using synchrotron radiation: Application to Ce.6La.1Th.1
[DE84-001793] 06 p0924 N84-16007
Role of pressure in understanding the anomalous superconductivity in europium (molybdenum)6(sulfur)8 and (TMTSF)2FSO3
[DE83-017292] 06 p0925 N84-16012
Electron localization and superconductivity of very thin epitaxially grown ag films on ge(001)
[AD-A143469] 22 p3663 N84-33224
CHAIKOVSKAYA, V. M.
The cathodic polarization of nickel during precipitation from pure solutions without additions
[BLL-OA-TRANS-3004-(6196.3)]
01 p0043 N84-10275
The cathodic polarization of nickel during precipitation from pure solutions without additions
[BLL-OA-TRANS-3003-(6196.3)]
01 p0043 N84-10276
CHAIYAPINUNT, S.
Linearized model for wind turbines in yaw
17 p2722 N84-27325
Analysis of wind turbines in yaw
[DE84-013620] 21 p3435 N84-31794
CHAKRABARTI, S.
A study of the large-scale structure of the plasmasphere using extreme ultraviolet observations
02 p0306 N84-12009
A study of the atmosphere and ionosphere using satellite observations of 300-1400 Ang airglow
[NASA-CR-173146] 07 p1028 N84-16663
CHAKRAVARTHY, S.
High resolution schemes and the entropy condition
[NASA-CR-172218] 01 p0128 N84-10836
CHALEF, A.
Welding of thermoplastics 09 p1292 N84-18437
CHALKOV, V. S.
Calculation of thermal stress state for components of metallurgical equipment by electric simulation
[BLL-M-35690-(5828.4)] 22 p3608 N84-32860
CHALLENER, W. A.
Far infrared optical properties of WbSe3
[DE84-009223] 21 p3498 N84-32173
CHALLIS, C. D.
The Z-pinch program at Imperial College
10 p1583 N84-20372
CHALLITA, A.
Optimization of electromagnetic propulsion systems
20 p3139 N84-29929

CHALMERS, B.
Is there a speed limit? 18 p2935 N84-28616
CHALMERS, D.
Thermal design optimization for spacecraft during transfer orbit 10 p1445 N84-19442
A review of the in-orbit thermal performance of Maritime Communications Satellite (MCS)-A [MBB-UR-641-83-O] 16 p2563 N84-26443
CHALMERS, D. R.
OTS 2: Five years of thermal testing on a satellite in a geostationary orbit 10 p1446 N84-19446
CHALOV, O. V.
Technical features of robotized machining system viewed 24 p3892 N84-34643
CHAMBERLAIN, G. E.
Measurement of multimode optical fiber attenuation [PB83-151207] 05 p0748 N84-14913
Optical fiber characterization: Attenuation, frequency domain bandwidth, and radiation patterns, volume 2 [PB84-158914] 14 p2226 N84-24357
Measurement of multimode optical fiber attenuation: An NBS special test service [PB84-192202] 21 p3499 N84-32179
CHAMBERLAIN, M. T.
Experiments on interaction of keV particle beams with the ionosphere [AD-A143277] 22 p3623 N84-32957
CHAMBERLIN, E. P.
Developing a 500-eV proton beam [DE83-012781] 03 p0439 N84-12880
CHAMBERLIN, J. L.
Zinc/bromine batteries: A status review [DE84-008973] 20 p3181 N84-30206
Emerging battery technologies [DE84-011193] 21 p3394 N84-31538
CHAMBERLIN, R.
Development of molten carbonate fuel cell technology [DE84-004856] 15 p2364 N84-25183
CHAMBERS, H. W.
Rotorcraft icing technology: An update 06 p0776 N84-15084
CHAMBERS, J. A.
N1 and P1 components of the visual evoked response in humans. A topographical and functional comparison [AD-A137030] 10 p1547 N84-20141
CHAMBERS, J. R.
Wind-tunnel investigation of an advanced general aviation canard configuration [NASA-TM-85760] 12 p1769 N84-21539
CHAMBERS, M. J.
Development of a unique Physical Metrology Laboratory Recall System [DE83-017415] 03 p0423 N84-12767
CHAMBERS, N. C.
Stress assessment through voice analysis [AD-A132577] 04 p0573 N84-13773
CHAMBERS, R. M.
Development of a computer-assisted simulation of tactical voice communications. Phase 1: Conceptual design [AD-A143036] 21 p3386 N84-31492
CHAMIEH, D. S.
Forces on a whirling centrifugal pump-impeller 05 p0687 N84-14516
CHAMIS, C. C.
Resin selection criteria for tough composite structures [NASA-TM-83449] 01 p0048 N84-10310
INHYD: Computer code for intraply hybrid composite design. A users manual [NASA-TP-2239] 04 p0491 N84-13224
Design concepts for low-cost composite engine frames [NASA-TM-83544] 07 p0954 N84-16186
Select fiber composites for space applications: A mechanistic assessment [NASA-TM-83631] 13 p1954 N84-22702
Impact resistance of fiber composites: Energy absorbing mechanisms and environmental effects [NASA-TM-83594] 15 p2284 N84-24712
Dynamic stress analysis of smooth and notched fiber composite flexural specimens [NASA-TM-83694] 16 p2460 N84-25770
ICAN: Integrated composites analyzer [NASA-TM-83700] 17 p2618 N84-26755
Interply layer degradation effects on composite structural response [NASA-TM-83702] 17 p2618 N84-26756
Simplified composite micromechanics equations for strength, fracture toughness and environmental effects [NASA-TM-83696] 18 p2809 N84-27832
Hygrothermomechanical fracture stress criteria for fiber composites with sense-parity [NASA-TM-83691] 19 p2985 N84-28918
Nonlinear analysis for high-temperature composites: Turbine blades/vanes 21 p3421 N84-31699
CHAMOROVSKIY, Y. K.
Fiber optic light guides based on polymer coated multicomponent glasses 21 p3487 N84-32100
CHAMPION, M.
A study of the fundamental problems of combustion in the combustion chambers of turbojets using a tubular reactor 15 p2293 N84-24759
CHAN, C.
Fluid flow in laser melted pool 15 p2306 N84-24837
CHAN, C. K.
Optimal design of gas adsorption refrigerators for cryogenic cooling 06 p0820 N84-15348
CHAN, E. C.
Nonlinear geometric, material and time dependent analysis of reinforced concrete shells with edge beams [PB84-104454] 08 p1173 N84-17639
CHAN, G. C.
BANDIT in NASTRAN 06 p0858 N84-15591
COSMIC/NASTRAN free-field input 22 p3609 N84-32865
CHAN, I. H.
Effects of system and geometrical parameters on the flow of Class-B solids in overflow standpipes [DE84-013948] 22 p3594 N84-32762
CHAN, J. C. L.
On the physical processes responsible for tropical cyclone motion 02 p0252 N84-11648
CHAN, J. L.
A 20-GHz IMPATT transmitter [NASA-CR-168076] 02 p0212 N84-11385
CHAN, J. W.
Development of holographic interferometry for welding arc analysis [DE84-005454] 13 p1994 N84-22940
CHAN, J. Y. K.
The Canadian programme of experimental measurement of sea-state characteristics by sky-wave radar 06 p0869 N84-15657
CHAN, K. W. S.
Polymer characterization by electrohydrodynamic ionization mass spectrometry: Probing composition and chemistry of mixtures in solution 06 p0809 N84-15264
CHAN, L.
Efficient computation of the k-terminal reliability of directed acyclic networks [AD-A136900] 10 p1570 N84-20286
CHAN, L. H.
Research in elementary particle physics [DE84-006130] 12 p1903 N84-22392
CHAN, P. C. F.
Supercritical multicomponent solvent coal extraction [NASA-CASE-NPO-15767-1] 07 p0965 N84-16255
CHAN, S. C.
Three-dimensional vorticity procedure interactions in combustion instability analysis of solid propellant rocket motors 13 p1945 N84-22647
CHAN, S. S.
Diffusion and electrical properties of sulfur implanted in gallium arsenide [AD-A142405] 20 p3308 N84-31012
CHAN, S. T.
Atmospheric dispersion of ammonia: An ammonia fog model [DE84-000165] 04 p0560 N84-13689
Phenomenology and modeling of heavy gas dispersion [DE84-008800] 18 p2878 N84-28272
CHAN, T.
An investigation of the use of iterative linear equation solvers in codes for large stiff systems of ODE's [AD-A133189] 06 p0901 N84-15845
CHAN, T. F.
An approximate Newton method for coupled nonlinear systems [AD-A139589] 14 p2214 N84-24300
Stable explicit schemes for equations of the Schroedinger type [AD-A140779] 17 p2758 N84-27513
Numerical methods for nonlinear elliptic eigenvalue problems [DE84-010408] 18 p2926 N84-28558
A stable explicit scheme for the ocean acoustic wave equation [AD-A141800] 19 p3062 N84-29427
Techniques for large sparse systems arising from continuation methods [DE84-010410] 20 p3282 N84-30833
PLTMGC: A multi-grid continuation program for parameterized nonlinear elliptic systems [DE84-010406] 21 p3474 N84-32017
CHAN, V. S.
Nonlinear theory of lower hybrid current drive II [DE84-007292] 15 p2410 N84-25469
Advanced ICRF launchers for heating and current drive in large Tokamaks [DE84-009092] 19 p3108 N84-29750
Density variation due to wave heating in Tokamak plasmas [DE84-009402] 20 p3305 N84-30993
CHAN, W.
Convex-ordering among functions, with applications to reliability and mathematical statistics [AD-A132796] 05 p0736 N84-14833
CHAN, Y. L.
Steady laminar natural convection in open rectangular cavities 03 p0375 N84-12441
CHAN, Y. Y.
Two-dimensional wind tunnel wall interference [AD-A138964] 11 p1603 N84-20499
Transonic equivalence rule with lift [AD-A143591] 23 p3690 N84-33389
CHANCE, J. E.
Seasonal soybean crop reflectance [E84-10049] 04 p0553 N84-13642
CHANCE, K. V.
Measurement of H2O and other trace gases in the stratosphere using a high resolution far-infrared spectrometer at 28 km [NASA-CR-173879] 22 p3622 N84-32951
CHANDHOK, V. K.
Process for producing parts with deep pocketed precision cavities using P/M shape technology [DE84-006566] 12 p1799 N84-21733
CHANDLER, D.
Space telescope: Solar array primary development mechanism 09 p1294 N84-18458
CHANDLER, G. I.
Current sensing in magnetic fusion experiments by Faraday rotation in single-mode optical fibers [DE84-004326] 11 p1732 N84-21298
CHANDLER, J. A.
Apparatus for releasably connecting first and second objects in predetermined space relationship [NASA-CASE-MSC-18969-1] 13 p1938 N84-22605
Linear motion valve [NASA-CASE-MSC-20148-1] 22 p3603 N84-32823
CHANDLER, R. F.
Anthropometric and mass distribution characteristics of the adult female, revised [AD-A143096] 21 p3457 N84-31939
Uniform mass distribution properties and body size appropriate for the 50 percentile male aircrewmember, 1980 - 1990 [AD-A142946] 21 p3461 N84-31948
CHANDRA, A.
Finite element and boundary element analysis of large strain large displacement problems in elastoplasticity 06 p0857 N84-15580
Finite element analysis of metal forming processes with thermomechanical coupling [DE84-004879] 10 p1462 N84-19548
CHANDRASEKARAN, B.
An approach to expert systems for mechanical design [AD-A131340] 02 p0272 N84-11777
CSRL (Conceptual Structures Representation Language): A language for expert systems diagonsis [AD-A131403] 02 p0272 N84-11782
Expert systems: Matching techniques to tasks [AD-A131385] 02 p0279 N84-11826
Distributed knowledge base systems for diagnosis and information retrieval [AD-A136577] 09 p1404 N84-19171
Distributed knowledge base systems for diagnosis and information retrieval [AD-A137828] 11 p1750 N84-21421
Expert systems for price analysis: A feasibility study [AD-P002795] 13 p2057 N84-23341
An intelligent manual for price analysis [AD-P002798] 13 p2057 N84-23344
Report on the feasibility of designing expert systems for contract price analysis [AD-A140854] 17 p2770 N84-27590
The design of an expert system for contract price analysis [AD-A140927] 18 p2943 N84-28662
CHANDRASEKHARAN, V.
Prediction of high-pressure phase transitions in solid N2 and the pressure dependence of the intramolecular vibrational frequencies [DE83-015260] 04 p0615 N84-14057
Prediction of pressure induced structural phase transitions and internal mode frequency changes in solid N2+ [DE83-014279] 05 p0756 N84-14960
CHANDY, K. M.
A distributed procedure to detect and/or deadlock [AD-A135459] 08 p1212 N84-17904

Preserving asymmetry by symmetric processes and distributed fair conflict resolution
[AD-A135458] 08 p1223 N84-17986
Distributed algorithms for various problems
[AD-A135452] 08 p1240 N84-18105
CHANG, A.
Experimental study of a dielectric antenna at the frequency range of 76-80 GHz
[AD-A134429] 07 p0993 N84-16438
CHANG, A. T.
The influence of gyroscopic forces on the dynamic behavior and flutter of rotating blades
[NASA-CR-175444] 11 p1608 N84-20524
CHANG, B. C.
Algorithms for computing (H sup (infinity symbol)) optimal transfer functions
[PB84-127448] 09 p1380 N84-19015
CHANG, C.
Active ionospheric generation on ELF/VLF waves
[AD-A139317] 14 p2176 N84-24034
CHANG, C. B.
An algorithm for multiple target tracking and data correlation
[AD-A131313] 02 p0273 N84-11786
Application of pseudoinversion to linear system identification with discrete measurements
[AD-A132283] 04 p0521 N84-13422
CHANG, C. J.
Multiple buoyancy driven flows in a vertical cylinder heated from below
[NASA-CR-173626] 17 p2666 N84-27001
Radial segregation induced by natural convection and melt/solid interface shape in vertical Bridgman growth
[NASA-CR-173627] 17 p2767 N84-27571
CHANG, C. K.
Mean excitation energies for stopping powers in various materials using local plasma oscillator strengths
[NASA-TP-2271] 11 p1760 N84-21485
CHANG, C. L.
Selection procedures for optimal subsets of regression variables
[AD-A131567] 02 p0285 N84-11869
Wireless communication systems
[AD-A135830] 09 p1300 N84-18496
CHANG, C. P.
Large-scale atmosphere-ocean coupling
[AD-A143162] 21 p3447 N84-31873
CHANG, C. S.
Continued investigation of the atomic physics of flashlamp pumped cesium-neon lasers
[AD-A130223] 01 p0086 N84-10561
An experimental hybrid model for a bilinear hysteretic system 10 p1514 N84-19910
Plasma confinement in self-consistent, one-dimensional transport equilibria in the collisionless-ion regime of EBT operation
[DE84-001861] 19 p3108 N84-29751
CHANG, C. Y.
Some robust techniques in radar signal processing 05 p0664 N84-14367
Searching for limitations in capability due to high average rates 06 p0911 N84-15919
TOF for heavy stable particle identification 06 p0913 N84-15936
CHANG, D.
A study of the interaction of millimeter wave fields with biological systems
[AD-A144150] 24 p3935 N84-34910
CHANG, D. C.
The characteristics of iris-fed millimeterwave rectangular microstrip patch antennas
[PB84-134634] 11 p1648 N84-20775
CHANG, D. K.
Harmonizable filtering and sampling of time series
[AD-A137517] 10 p1570 N84-20285
CHANG, E.
Switching behavior of bistable resonators filled with two-level atoms 14 p2236 N84-24419
CHANG, F. C.
Least favorable response of inelastic structures
[AD-A136289] 09 p1330 N84-18687
CHANG, F. H.
Adhesive bond and composite strength screening system developmental study
[FZM-7184] 20 p3161 N84-30073
CHANG, F. K.
Strength of bolted joints in laminated composites 13 p2002 N84-22992
Strength of bolted joints in laminated composites
[AD-A141826] 19 p2986 N84-28921
CHANG, G. E.
Improved high temperature resistant matrix resins
[NASA-CR-168210] 19 p2998 N84-28995
CHANG, G. E. C.
Development of partially fluorinated resin apex seals
[NASA-CR-174706] 22 p3603 N84-32828
CHANG, G. M.
Magneto-mechanical effects in 304 stainless steels
[DE84-004343] 10 p1462 N84-19546
CHANG, H.
The effects of powder metallurgical processing and intermediate thermal mechanical treatment on the fatigue properties of high strength aluminum alloys
[AD-A130790] 01 p0044 N84-10282
CHANG, H. C.
Cyclotron resonant scattering of energetic electrons by electromagnetic waves in the magnetosphere 22 p3621 N84-32946
CHANG, H. H.
Electrocatalysis of fuel cell reactions: Investigation of alternate electrolytes
[NASA-CR-173261] 10 p1529 N84-20013
A mixed explicit-implicit antidiffusive method of Navier-Stokes equations for supersonic and hypersonic separated flows
[AD-A141010] 18 p2837 N84-28005
CHANG, H. R.
Comparison of steady state transitions in truncated spectral and finite difference models of two-dimensional shallow convection 06 p0832 N84-15417
CHANG, I. C.
Numerical calculation of the transonic potential flow past a cranked wing
[NASA-TM-84391] 01 p0008 N84-10049
Comparison of calculated and measured pressures on straight and swept-tip model rotor blades
[NASA-TM-85872] 07 p0947 N84-16143
CHANG, I. S.
Three-dimensional, two-phase supersonic nozzle flows
[AD-A138649] 13 p1926 N84-22538
CHANG, J.
Diagnosing the ion beam on the applied-B diode
[DE83-017822] 03 p0447 N84-12943
Tomographic technique in relativistic electron beam experiments
[DE84-000357] 04 p0598 N84-13949
A multi-GHz multi-channel photonic analog data processing system
[DE84-012281] 21 p3499 N84-32175
CHANG, J. F.
VORCAM: A computer program for calculating vortex lift effect of cambered wings by the suction analogy
[NASA-CR-165800] 23 p3690 N84-33387
CHANG, J. L. C.
A computational method for viscous incompressible flows
[NASA-TM-85958] 17 p2600 N84-26664
A solution procedure for three-dimensional incompressible Navier-Stokes equation and its application
[NASA-TM-85978] 17 p2600 N84-26666
CHANG, J. S.
Numerical simulation of spacecraft charging phenomena at high altitude
[AD-A130043] 01 p0028 N84-10178
CHANG, J. T.
The impact of satellite temperature soundings on the forecasts of a small national meteorological service 17 p2717 N84-27295
CHANG, J. Y.
Space environment effects (M0006) 15 p2279 N84-24690
CHANG, K.
V-band integrated quadriphase modulator
[NASA-CR-175159] 08 p1149 N84-17480
CHANG, K. H.
Acta aeronautica et astronautica sinica (selected articles
[AD-A138531] 12 p1764 N84-21506
CHANG, K. I.
Process in manufacturing high efficiency AlGaAs/GaAs solar cells by MO-CVD 19 p3044 N84-29311
CHANG, K. M.
Investigation of rapidly solidified Ni3Al-based alloys
[AD-A144174] 24 p3883 N84-34604
CHANG, L. H.
A study of tropical cyclone intensity from satellite imagery 24 p3956 N84-35048
CHANG, L. M.
Unsteady compressible laminar boundary-layer flow within an expansion wave
[AD-A131889] 03 p0371 N84-12420
Numerical simulation of the flow of a chemical contaminant subjected to a jet impingement
[AD-P002936] 14 p2196 N84-24176
CHANG, L. S.
Microprocessor-based control system for flowing-electrolyte zinc-bromine battery systems
[DE83-012506] 03 p0389 N84-12403
CHANG, M. C.
Some results on stable rank 2 vector bundles and reflexive sheaves on cubic Rho 02 p0286 N84-11877
CHANG, R. K.
Rotational CARS application to simultaneous and multiple-point temperature and concentration determination in a turbulent flow
[NASA-CR-175334] 07 p1001 N84-16489
Rotational cars application to simultaneous and multiple-point temperature and concentration determination in a turbulent flow
[NASA-CR-3783] 09 p1385 N84-19044
Simultaneous multipoint measurements of density gradients and temperature in a flame
[DE84-006832] 12 p1794 N84-21697
CHANG, S. C.
A semi-direct procedure using a local relaxation factor and its application to an internal flow problem
[NASA-TM-83704] 16 p2486 N84-25946
CHANG, S. H.
Embedding methods for the steady Euler equations
[NASA-TM-83481] 02 p0279 N84-11831
Detection of hidden mineral deposits by airborne spectral analysis of forest canopies
[E84-10110] 12 p1830 N84-21928
CHANG, S. J.
Dislocation shielding model of fracture toughness
[DE84-007539] 15 p2351 N84-25111
CHANG, S. L.
Study of particulate formation and radiant heat loss in direct injection-type diesel engines
[PB84-160100] 15 p2344 N84-25073
CHANG, S. M.
Four-valued logic star algorithm and their applications
[AD-P002370] 14 p2194 N84-24161
CHANG, T.
Beam plasma turbulence study
[AD-A131946] 03 p0444 N84-12917
CHANG, T. C.
Likelihood ratio tests on covariance matrices and mean vectors of complex multivariate normal populations and their applications in time series
[AD-A131523] 01 p0133 N84-10874
Advances in computer-aided process planning
[PB83-252254] 05 p0664 N84-14362
CHANG, T. S.
Dynamic, hierarchical decision problems
[AD-P002912] 13 p1981 N84-22863
CHANG, T. Y.
A computer program for predicting nonlinear uniaxial material responses using viscoplastic models
[NASA-TM-83675] 19 p3034 N84-29247
Nonlinear finite element analysis of shells with large aspect ratio 21 p3420 N84-31692
CHANG, W. S. C.
Fabrication and evaluation of chirped grating lenses in lithium niobate waveguides
[AD-A137103] 10 p1579 N84-20345
CHANG, Y. K.
Positron spectroscopy applied to the analysis of surfaces
[DE82-008836] 01 p0038 N84-10238
CHANG, Y. W.
Sloshing response of a reactor tank with internals
[DE84-009629] 22 p3595 N84-32766
CHANGERY, M. J.
Directional extreme wind speed data for the design of buildings and other structures
[PB84-178847] 20 p3171 N84-30139
CHANGNON, S. A., JR.
Climate fluctuations in Illinois: 1901-1980
[PB84-159896] 14 p2181 N84-24069
Studies of statistical techniques to evaluate weather modification. Volume 1: Reports of OSET
[PB84-182906] 20 p3248 N84-30620
CHANGZHONG, Z.
Rare-earth metals and their applications in aviation
[AD-A144410] 24 p3884 N84-34607
CHANIN, M. L.
Research status and recommendations from the Alaska workshop on gravity waves and turbulence in the middle atmosphere
[AD-A140939] 18 p2879 N84-28281
CHANNELL, P. J.
Effect of RF structure on cumulative beam breakup
[DE83-017302] 03 p0439 N84-12882
Longitudinal space-charge effects in bunched beams
[DE83-017305] 03 p0440 N84-12888
Hamiltonian structure of field-line equations
[DE84-011019] 20 p3282 N84-30836
CHANTIKUL, P.
Stress corrosion of ceramic materials
[AD-A136729] 10 p1467 N84-19581

CHANTRY, P. J.
Fluorescence and electron energy loss cross sections in mercuric bromide
[AD-A137153] 11 p1629 N84-20657
CHANTY, J. M.
Quantum optics and photonics
22 p3682 N84-33344
CHAO, A. W.
Latest on polarization in electron storage rings
[DE83-012764] 02 p0290 N84-11902
CHAO, B. F.
On the maximum-entropy/autoregressive modeling of time series
[NASA-TM-86057] 09 p1372 N84-18961
Predictability of the Earth's polar motion
[NASA-TM-86095] 14 p2169 N84-23991
Analysis of the Earth's variable rotation
20 p3221 N84-30462
CHAO, B. T.
Averaging procedures of multiphase conservation equations
[DE83-014696] 04 p0592 N84-13908
CHAO, C. C.
Stress analysis of foam sandwich semi-monocoque structures 24 p3958 N84-35061
CHAO, D. F. K.
Numerical simulation of two-dimensional heat transfer in composite bodies with application to de-icing of aircraft components
[NASA-CR-168283] 04 p0531 N84-13490
CHAO, J.
Chung-Li, Taiwan dual mode (Doppler and spaced antenna) VHF radar: Preliminary specifications
17 p2691 N84-27141
CHAO, S.
Theoretical design and analysis of the layered synthetic microstructure optic for the dual path X-ray telescope
[NASA-CR-171133] 21 p3498 N84-32168
CHAO, W.
Documentation of the GLAS fourth order general circulation model. Volume 1: Model documentation
[NASA-TM-86064-VOL-1] 14 p2179 N84-24048
Documentation of the GLAS fourth order general circulation model. Volume 2: Scalar code
[NASA-TM-86064-VOL-2] 14 p2179 N84-24049
Documentation of the GLAS fourth order general calculation model. Volume 3: Vectorized code for the Cyber 205
[NASA-TM-86064-VOL-3] 14 p2179 N84-24050
CHAO, W. C.
Geometrically nonlinear analysis of layered anisotropic plates and shells 05 p0695 N84-14562
A shear deformable shell element for laminated composites 21 p3420 N84-31691
CHAO, Y. C.
A study of heat release rate distribution in a gas turbine combustor by acoustic measurements
22 p3536 N84-32385
CHAO, Y. M.
Cognitive information processing
22 p3684 N84-33360
CHAO, Y. S.
Photon correlation spectroscopy and applications
22 p3683 N84-33352
CHAOUAT, Y.
Surface property measurement for spacecraft thermal balance testing 10 p1447 N84-19451
CHAPAYEV, A. V.
Effect of redistribution of blood on severity of spatial position illusions in weightlessness
02 p0260 N84-11701
CHAPELL, C. R.
Methods for keeping a conductive spacecraft near the plasma potential 08 p1119 N84-17277
CHAPELL, D.
System 2000 to dBASE 2 and back again
[DE84-008031] 18 p2945 N84-28677
CHAPELLE, F. H.
Hydrogeology, digital solute-transport simulation, and geochemistry of the Lower Cretaceous aquifer system near Baltimore, Maryland 21 p3425 N84-31728
CHAPIRO, D. M.
Sorting by recursive partitioning
[AD-A141583] 19 p3077 N84-29524
CHAPKANOV, S.
Effects of small-scale plasma disturbance on the IKB-1300 spacecraft potential
[PR-839] 08 p1109 N84-17208
CHAPKIS, R. L.
Study of noise-certification standards for aircraft engines. Volume 3: Selection and evaluation of engine-noise-certification concept
[AD-A137805] 11 p1614 N84-20563
CHAPLIN, H. R.
Effect of radial load distribution on the first-harmonic inflow velocity of a helicopter rotor at transition speeds
[AD-A142840] 21 p3325 N84-31100
CHAPMAN, A. J., III
Comparison of toughened composite laminates using NASA standard damage tolerance tests
20 p3145 N84-29972
CHAPMAN, D. R.
Navier-Stokes simulation of homogeneous turbulence on the CYBER 205 10 p1560 N84-20224
Coherent structure modeling of viscous sublayer turbulence for incompressible flow with heat transfer and for compressible flow
[AD-A140478] 16 p2493 N84-25994
CHAPMAN, G.
A study of the magnetic evolution of active regions and its relation to solar flares
[AD-A135085] 09 p1416 N84-19267
CHAPMAN, G. A.
Solar Irradiance Variations on Active Region Time Scales
[NASA-CP-2310] 17 p2778 N84-27635
Ground-based measurements of solar irradiance variations 17 p2778 N84-27639
Two-dimensional photometry of active regions
17 p2778 N84-27640
CHAPMAN, G. C.
A summary and integration of research concerning single pilot IFR operational problems 03 p0312 N84-12034
CHAPMAN, G. T.
Mathematical modeling of the aerodynamic characteristics in flight dynamics
[NASA-TM-85880] 08 p1098 N84-17141
Nonlinear problems in flight dynamics
[NASA-TM-85940] 16 p2439 N84-25648
Aerodynamic design using numerical optimization
[NASA-TM-85550] 17 p2599 N84-26661
CHAPMAN, H. L.
Investigation of structure-permeability relationships of silicone polymer membranes
[PB84-160977] 14 p2130 N84-23771
CHAPMAN, K.
Development of a technique for short-term prediction of hydrometeors using advection and physical forcing
[AD-A132259] 04 p0567 N84-13740
CHAPMAN, L. D.
System 2000 to dBASE 2 and back again
[DE84-008031] 18 p2945 N84-28677
CHAPMAN, P.
Edge waves by boundary collocation
[AD-A137959] 18 p2924 N84-28545
CHAPMAN, R. D.
Baseline and verification tests of the electric vehicle associates' current fare station wagon
[AD-A132549] 04 p0617 N84-14072
CHAPMAN, R. E.
Programmer's manual for the fire safety evaluation system cost minimizer computer program
[PB83-251447] 04 p0517 N84-13395
CHAPMAN, R. N.
Helical screw rheometer: A new concept in rotational rheometry
[DE84-004055] 14 p2149 N84-23873
Helical screw viscometer
[DE84-011111] 20 p3189 N84-30261
CHAPMAN, R. S.
Environmental impact research program. Two-equation, depth-integrated turbulence closure for modeling geometry-dominated flows
[AD-A132347] 04 p0533 N84-13505
CHAPMAN, W. H.
Surveying in Antarctica during the International Geophysical Year 14 p2161 N84-23942
CHAPPELKA, A.
Rainfall chemistry and potential beneficial-detrimental impact to indigenous vegetation
[AD-A138471] 12 p1845 N84-22027
CHAPPELL, C. R.
A potential control method for thermal plasma measurements on the DE-1 spacecraft
08 p1119 N84-17276
CHAPRONIERE, G. C. H.
Oligocene and Miocene larger foraminiferida from Australia and New Zealand
[BMR-BULL-188] 23 p3797 N84-34077
CHARACKLIS, W. G.
Microbial fouling and its effect on power generation
[AD-A131084] 01 p0112 N84-10726
CHARAKHCHIAN, T. N.
The study of peculiarities of the energy spectrum of low energy electrons in the lower atmosphere
24 p3993 N84-35273
CHARE, E. C.
A 2-MJ staged explosive generator
[DE83-013677] 01 p0072 N84-10474
CHAREN, T.
Medical subject headings, tree annotations, 1984. Technical notes, Medlars indexing instructions
[PB84-120047] 09 p1405 N84-19181
Medlars indexing instructions, tumar key supplement, 1984 (Technical Notes)
[PB84-120039] 11 p1750 N84-21424
CHARGIN, A. K.
Construction and operational experience of the tandem mirror experiment-upgrade (TMX-U)
[DE83-018181] 04 p0605 N84-13995
Design and fabrication of circular and rectangular components for electron-cyclotron-resonant heating of tandem mirror experiment-upgrade
[DE84-003244] 07 p1078 N84-17010
Circular waveguide systems for electron-cyclotron-resonant heating of the tandem mirror experiment-upgrade
[DE84-003739] 08 p1233 N84-18062
CHARGIN, M. K.
Acoustic responses of coupled fluid-structure system by acoustic-structural analogy 10 p1510 N84-19883
CHARHUT, D.
Space station needs, attributes and architectural options. Summary of major study activities and results. Space station program observations
[NASA-CR-173345] 09 p1267 N84-18275
CHARLES, J. B.
Response of the cardiovascular system to vibration and combined stresses
[AD-A142166] 19 p3066 N84-29450
CHARLES, J. P.
Device 2E6 (ACMS) Air Combat Maneuvering Simulator instructor console review
[AD-A138972] 13 p1935 N84-22587
Fleet project team participation in major aviation training device development, acquisition and support
[AD-A144182] 24 p3857 N84-34452
CHARLES, P. A.
Preliminary results of coordinated optical UV and X-ray observations of magnetic white dwarfs in binaries
24 p3980 N84-35216
CHARLES, R. D.
Predicting the onset of turbulence in the presence of a pressure gradient
[AD-A136980] 10 p1493 N84-19760
CHARLESTON, A.
Chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] 18 p2868 N84-28205
CHARLESWORTH, W. W.
The virtual front end: Towards better management of solid geometric data 12 p1874 N84-22213
CHARLOT, L. A.
Pulsed-ion-irradiated microstructures in molybdenum
[DE84-000679] 04 p0504 N84-13304
CHARLTON, L. A.
ATF-1 torsatron studies
[DE84-003314] 09 p1392 N84-19089
CHARMAN, D.
An assessment of the reliability of edge connectors
[ERA-82-22] 13 p1985 N84-22888
CHARNES, A.
The extreme point characterizations of semi-infinite dual non-archimedean balls
[AD-A138016] 12 p1893 N84-22330
A method for constructing a unimodal inferential or prior distribution
[AD-A141389] 19 p3083 N84-29566
Pareto-optimality, efficiency analysis and empirical production functions
[AD-A141768] 19 p3088 N84-29601
Information-theoretic non-parametric unimodal density estimation
[AD-A144522] 24 p3953 N84-35035
CHAROY, A.
Electromagnetic compatibility
[CAHIERS-TECHNIQUES-120] 15 p2322 N84-24942
CHARPENTIER, D. J.
A data compressor system
[INPE-2847-PRE/389] 02 p0270 N84-11766
CHARPIN, F.
The wind tunnel S2MA of the aerodynamic testing plant in Modane-Avrieux, France
[ONERA-NT-1983-5] 16 p2454 N84-25735
CHART, T. G.
A critical assessment of thermodynamic data for the Ca-Mg system
[NPL-DMA(A)-73] 15 p2415 N84-25500
CHARUKHCHEV, A. V.
Alignment of multistate laser amplifiers with periodic space filtration of beam 21 p3381 N84-31452
CHARVIN, P.
A new measuring machine in Paris
18 p2842 N84-28047

CHARY, H. A.
Atlas of mean sea-level pressure
[AD-A130207] 01 p0107 N84-10697
CHASE, A.
Pulsed D2-F2 chain-laser damage to coated window and mirror components
[AD-A138911] 13 p1995 N84-22950
CHASE, E. L.
Digital analysis of pulse code modulated signals in telecommunications channels 16 p2483 N84-25922
CHASE, M. W.
Sources generating and reporting numerical and factual data 07 p1086 N84-17062
The evaluation/validation process: Data from disciplines resting on good theoretical foundations 07 p1086 N84-17065
CHASE, R.
Satellite data relay and platform locating in oceanography. Report of the In Situ Ocean Science Working Group
[NASA-TM-85443] 12 p1860 N84-22116
Oceanic transport 20 p3218 N84-30444
CHASE, R. P.
High power neutral beam heating on Doublet 3
[DE84-012471] 21 p3501 N84-32186
CHASEN, S. H.
Evaluation of 3-D graphics software: A case study 12 p1875 N84-22222
CHASSAY, R. P.
Space processing applications rocket project. SPAR 8
[NASA-TM-82578] 16 p2455 N84-25745
CHATO, J. C.
Optimation of cooled shields in insulations
[NASA-CR-166583] 18 p2836 N84-27999
CHATTEN, L. G.
Voltammetric studies of Zomepirac sodium and its determination in tablets by differential-pulse polarography
[AD-A136982] 10 p1455 N84-19499
CHATTERJEE, S.
Wave propagation study of the central Mediterranean Sea using ocean bottom seismometers
[AD-A135484] 08 p1195 N84-17790
CHATTOPADHYAY, K.
Barriers to the migration of interphase boundaries
[AD-A137902] 11 p1633 N84-20679
CHATURVEDI, P.
Geophysical plasmas and atmospheric modeling
[AD-A142573] 20 p3240 N84-30572
CHATURVEDI, P. K.
Parametric excitation and suppression of convective plasma instabilities in the high latitude F-region ionosphere
[AD-A130652] 01 p0105 N84-10682
Finite temperature effects on the evolution of ionospheric barium clouds in the presence of a conducting background ionosphere
[AD-A143592] 23 p3798 N84-34082
CHATURVEDI, S.
An investigation of aerodynamic characteristics of wings having vortex flow using different numerical codes
[NASA-CR-173596] 16 p2438 N84-25639
CHATURVEDI, S. K.
An analytical design procedure for the determination of effective leading edge extensions on thick delta wings
[NASA-CR-172351] 10 p1419 N84-19284
Impact loading in filamentary structural composites 10 p1506 N84-19857
Crack-growth resistance of laminated hybrid composites 15 p2311 N84-24868
CHAU, H. H.
Fabry-Perot velocimetry techniques: Is Doppler shift affected by surface-normal direction?
[DE83-015902] 02 p0224 N84-11472
CHAU, L. L.
Detecting heavy quark jets 06 p0914 N84-15939
CHAUDHRY, A. H.
Nordsee radar backscatter measurements data report
[AD-A141914] 20 p3173 N84-30148
CHAUDHURI, J.
X-ray topographic methods and application to analysis of electronic materials 18 p2940 N84-28645
CHAUDHURI, S.
Compound semiconductor characterization
[AD-A143601] 23 p3830 N84-34292
CHAUDHURI, S. N.
Transonic interference flow-field analysis for wing-body-pylon-store
[AD-A141811] 19 p2959 N84-28754
CHAUDOUET, A.
Transient 3-dimensional thermoelasticity by the integral equations method
[CETIM-11-B-071] 21 p3424 N84-31717
CHAUDOURNE, J.
Outline and evaluation of a spaceborne sodium heat pipe furnace with three compartments 10 p1440 N84-19407
CHAUSHANSKIY, S. A.
Television system for monitoring target position in laser thermonuclear fusion experiments 13 p1969 N84-22781
CHAUSSE, D.
A compilation of moored current meter data from the region of the North Pacific boundary current, volume 33
[AD-A140687] 17 p2737 N84-27389
CHAUSSEE, D. S.
Application of the implicit MacCormack scheme to the parabolized Navier-Stokes equations
[NASA-CR-166579] 19 p3020 N84-29148
Viscous computation of a space shuttle flow field
[NASA-TM-85977] 20 p3183 N84-30225
CHAUVAT, P.
The performance of 16000 wire mini-drift MWPC system 06 p0912 N84-15922
CHAUVEAU, Y.
Predicting combustor efficiency and stability performances 15 p2294 N84-24765
CHAUVET, D.
Producing a cryogenic gust in an Eiffel type atmospheric wind tunnel with short gust 14 p2095 N84-23569
CHAUVET, J. M. C.
Symbolic knowledge processing for the acquisition of expert behavior: A study in medicine
[AD-A141835] 19 p3068 N84-29460
CHAVAGA, K.
Portable electromagnetic flaw detector for metal products 23 p3706 N84-33493
CHAVES, H.
Changes of phase and waves on depressurization of liquids with high specific heat
[MPIS-MITT-77] 15 p2332 N84-25003
CHAVEZ, J. C.
The ISPM solar-wind plasma experiment 09 p1261 N84-18231
CHAVEZ, P. F.
L2-projection for transferring data between finite element meshes
[DE84-000063] 08 p1221 N84-17973
CHAVEZ, P. S., JR.
Intraband radiometric performance of the LANDSAT-4 Thematic Mapper 20 p3209 N84-30389
CHAVEZ, R. J.
Robotic technology applied to Army mobility systems
[AD-A134728] 08 p1216 N84-17933
CHAYKOVSKIY, B. S.
Influence of aging in martensite state on mechanical properties of Cu-Al-Zn system Beta-alloy 12 p1784 N84-21641
CHAYKOVSKY, M.
Synthesis of energetic materials
[AD-A130974] 02 p0200 N84-11299
Synthesis and properties of trisubstituted trinitrobenzenes. TATB analogs
[AD-A131619] 02 p0203 N84-11322
Synthesis of energetic materials
[AD-A141495] 19 p3001 N84-29021
CHAZELLE, B.
New algorithms for near neighbor searching
[AD-A142404] 20 p3280 N84-30824
CHEATHAM, C.
Physiological assessment of aircraft pilot workload in simulated landing and simulated hostile threat environments
[AD-A140469] 16 p2538 N84-26297
CHEATHAM, J. G.
V/STOL model fan stage rig design report
[NASA-CR-174688] 14 p2106 N84-23629
CHEBURKIN, N. V.
Improving energy performance and duty time of production process CW electrical ionization CO2 lasers by using five-component lasing mixtures 21 p3481 N84-32085
CHECHENOV, A. A.
Joint analysis of the data obtained by detecting the general, muon, and neutron components of cosmic ray intensity on May 7, 1978 24 p3993 N84-35270
CHEESEMAN, P. C.
Recommendations for NASA research and development in artificial intelligence
[NASA-CR-170585] 02 p0277 N84-11817
CHEGWIN, R.
Photoelastic investigation of the stress concentration factor in welded joints
[ND-R-816(R)] 18 p2852 N84-28106
CHEHROUDI, B.
Scanning laser Doppler anemometer and its application in turbulent separated flow
[AD-A130923] 01 p0084 N84-10548
CHEKALIN, S. V.
Future space transport
[NASA-TM-77554] 14 p2114 N84-23668
Space transportation systems of the future 21 p3348 N84-31236
CHEKASHOVA, S. A.
Study of superfine interactions in amorphous chromium-containing alloys by Mossbauer spectroscopy 24 p3877 N84-34565
CHELTON, D.
Analysis techniques 12 p1834 N84-21957
Three-way partitioning of sea surface temperature measurement error 12 p1836 N84-21969
CHELYSHEV, N. A.
Stress-state index and Nadai-Lode parameter
[BLL-M-35433-(5828.4)] 08 p1169 N84-17612
Variation in coefficient accounting for influence of external zones with variation in contact friction conditions
[BLL-M-35596-(5828.4)] 19 p3031 N84-29222
CHEMERIS, S. I.
High temperature solid oxide electrolytes for research in metallurgical processes and steelmaking 11 p1740 N84-21352
CHEMLA, D. S.
Room temperature optical nonlinearities in GaAs multiple quantum wells 14 p2235 N84-24408
CHEN-HAI, J.
An estimation method of vertical diffusion parameters in the mesoscale range
[AD-A136498] 09 p1345 N84-18787
CHEN, A. B.
Theory of the electronic properties of mercury-cadmium-telluride alloys
[AD-A143426] 22 p3663 N84-33221
CHEN, A. G.
Variable stator radial turbine
[NASA-CR-174663] 13 p1932 N84-22568
CHEN, A. T.
Study of seismic response at Stations 6 and 7, El Centro Strong Motion Array, Imperial Valley, California
[PB84-119924] 09 p1346 N84-18795
CHEN, A. T. F.
MULAP4: A multi-linear analysis program for ground motion studies of horizontally layered systems
[PB84-182815] 20 p3243 N84-30591
CHEN, B. S.
Formal specification and verification of distributed system
[AD-A139305] 14 p2203 N84-24220
CHEN, C.
Three-dimensional non-self-similar crack growth in elastic-plastic materials 17 p2678 N84-27055
Corrosion of 5083 aluminum by aqueous sodium sulfate
[DE84-012033] 20 p3156 N84-30045
Galvanic corrosion of an aluminum O-ring
[DE84-011345] 20 p3157 N84-30047
Model cloud relationships
[AD-A142690] 21 p3447 N84-31871
CHEN, C. C.
Crazing and fatigue behaviour of one and two phase polymers 06 p0811 N84-15282
CHEN, C. H.
Direct measurement of a VUV transition oscillator strength in xenon
[DE84-008555] 18 p2941 N84-28655
Isotopically selective counting of noble gas atoms, using resonance ionization spectroscopy
[DE84-011638] 21 p3361 N84-31320
CHEN, C. K.
High-quality silicon films prepared by zone-melting recrystallization 18 p2939 N84-28638
CHEN, C. L.
Fluorescence and electron energy loss cross sections in mercuric bromide
[AD-A137153] 11 p1629 N84-20657
CHEN, C. M.
Theory and modeling of atmospheric turbulence, part 2
[NASA-CR-3817] 19 p3057 N84-29398
CHEN, C. T.
Nonperiodic fluctuations induced by stationary surface waviness on a semi-infinite plate
[AD-A130820] 02 p0174 N84-11146
Multi-sensor array time-delay estimation with small phase incoherences
[AD-A138867] 13 p2033 N84-23183
CHEN, D. P.
Submicron structures technology and research 22 p3683 N84-33353
CHEN, D. R.
Ion implanted GaAs IC. Process technology
[AD-A139348] 14 p2242 N84-24461

CHEN, D. Y.
Experimental and theoretical study of combustion jet ignition
[NASA-CR-168139] 01 p0009 N84-10054
Hybrid power semiconductor switch
[NASA-CASE-LEW-13922-1] 02 p0212 N84-11389
Combustion jet ignition 03 p0336 N84-12188

CHEN, E. S.
Characterization of crystallographic structure and internal stress of chromium coatings plated under current interruptions
[AD-A136118] 17 p2623 N84-26786

CHEN, F. C.
Theoretical analysis of a kinematic Stirling-cycle heat pump for space conditioning applications
[DE84-010240] 15 p2344 N84-25072

CHEN, F. F.
Wavelength scaling of the two plasmon decay and stimulated Raman scattering instabilities
[DE84-008934] 18 p2847 N84-28077
Studies of CO2 laser interactions with plasma
[DE84-012485] 20 p3307 N84-31004

CHEN, F. J.
Correlations of supersonic boundary-layer transition on cones including effects of large axial variations in wind-tunnel noise
[NASA-TP-2229] 08 p1157 N84-17534

CHEN, F. L.
Effect of oscillations upon velocity distributions in simulated solid propellant flow environments
13 p1945 N84-22646

CHEN, G. K. C.
Basic EMC (electromagnetic compatibility) technology advancement for c3 systems. Volume 1: A nonlinear macromodel of the bipolar integrated circuit operational amplifier for electromagnetic interference analysis
[AD-A141369] 19 p3004 N84-29040

CHEN, H.
X-ray topographic measurements of strain fields
[AD-A136310] 09 p1394 N84-19103

CHEN, H. C.
BGRID: A block-structured grid generation code for wing sections
[NASA-CR-166317] 23 p3814 N84-34187

CHEN, H. F.
Relationships among classes of spherical matrix distributions
[AD-A143215] 22 p3648 N84-33128

CHEN, H. P.
Film cooling on a gas turbine blade near the end wall
[AD-A138794] 13 p1933 N84-22569
A new second order accurate finite difference method for dynamic response of elastic-plastic finite deformation problems 17 p2678 N84-27056

CHEN, H. S.
Spin correlations near the ferromagnetic to spin glass crossover
[DE84-007385] 15 p2299 N84-24799

CHEN, I. W.
Transformation plasticity in high-strength materials
[DE84-008655] 19 p2986 N84-28922

CHEN, J.
Tearing instability in an anisotropic neutral sheet
[AD-A132684] 05 p0749 N84-14920
Development of innovative millimeter-wave broadband mixers
[AD-A136134] 09 p1310 N84-18562
Fast collisionless tearing in an anisotropic neutral sheet
[NASA-CR-175415] 11 p1737 N84-21331
Quasi-steady state multi-plasma cloud configuration in the ionosphere
[AD-A141532] 19 p3107 N84-29739
Geophysical plasmas and atmospheric modeling
[AD-A142573] 20 p3240 N84-30572

CHEN, J. C.
Raman scattering temperature measurements for water vapor in nonequilibrium dispersed two-phase flow
[DE83-900107] 01 p0080 N84-10522

CHEN, J. H.
Helium thruster propulsion system for precise attitude control and drag compensation of the gravity Probe-B satellite 21 p3349 N84-31242

CHEN, J. J.
A study of multispectral model of land cover
24 p3955 N84-35042

CHEN, K. I.
Particle confinement during lower-hybrid current drive in the Versator 2 Tokamak
[DE84-008941] 19 p3106 N84-29737

CHEN, K. M.
Radar waveform synthesis for target identification
[AD-A130363] 01 p0063 N84-10412

CHEN, L.
Linear relativistic gyrokinetic equation in general magnetically confined plasmas
[DE84-000048] 04 p0610 N84-14027

CHEN, L. C.
Application of active and passive suspension techniques to improve high speed ground vehicle performance
[PB83-224576] 01 p0164 N84-11076
LANDSAT-4 horizon scanner performance evaluation
[E84-10079] 07 p1022 N84-16626

CHEN, L. H.
Transfer during sliding wear of selected metal systems
21 p3364 N84-31341

CHEN, L. J.
Interfacial reactions of nickel and cobalt thin films on silicon 24 p3959 N84-35064

CHEN, L. W.
Vibrations and stability of thick plates
24 p3958 N84-35059
Post-buckling of initially stressed thick plates
24 p3958 N84-35060

CHEN, M. C.
Concurrent algorithms as space-time recursion equations 09 p1400 N84-19143

CHEN, M. C. M.
Space-time algorithms: Semantics and Methodology
05 p0721 N84-14726

CHEN, M. F.
The effect of wavelength filtering in rough surface scattering 23 p3778 N84-33957

CHEN, M. H.
Relativistic calculations and measurements of energies, Auger rates and lifetimes
[AD-A130094] 01 p0141 N84-10924

CHEN, M. M.
Development of enhanced heat transfer/transport/storage slurries for thermal-system improvement
[DE83-009688] 01 p0081 N84-10525
Fluid flow in laser melted pool
15 p2306 N84-24837

CHEN, N. C. J.
Review of Stirling-engine mathematical models
[DE83-016454] 02 p0301 N84-11974
Effects of pressure-drop correlations on Stirling-engine predicted performance
[DE83-017279] 03 p0384 N84-12501
Nonlinear analysis of Stirling engine thermodynamics
[DE84-013493] 21 p3507 N84-32219

CHEN, P. C. T.
Elastic-plastic analysis of annular plate problems using NASTRAN
[AD-A131293] 02 p0231 N84-11518
Elastic-plastic analysis of annular plate problems using NASTRAN 06 p0861 N84-15607
Stress distribution in a cylindrical bar subjected to cyclic torsional loading
[AD-A139413] 14 p2158 N84-23929
Stress distribution in a cylindrical bar subjected to cyclic torsional loading
[AD-P002957] 14 p2199 N84-24197
A material model for reverse yielding and its application to torsion
[AD-A140897] 17 p2680 N84-27071

CHEN, P. F. S.
Generalized plastic hinge concepts for 3D beam-column elements
[PB83-247981] 04 p0516 N84-13391

CHEN, P. J.
Theory of dynamic ferroelectricity
[DE84-002609] 08 p1152 N84-17500
Some recent results in wave propagation
[DE84-003107] 10 p1482 N84-19686

CHEN, P. K. K.
High pressure melting and crystallization of Nylon-11
[AD-A138858] 13 p1964 N84-22760

CHEN, P. S.
Experimental measurement of material damping using digital test equipment 10 p1514 N84-19913

CHEN, R. T.
LEC GaAs for integrated circuit applications
[NASA-CR-173267] 07 p1079 N84-17014
A summary of rotorcraft handling qualities research at NASA Ames Research Center 11 p1615 N84-20571

CHEN, S.
Synthesis of Co2+ and Ni2+ stabilized beta alumina
11 p1744 N84-21378

CHEN, S. B.
The determination of research octane number of gasoline fuels by octane analyzer
[AD-A132427] 04 p0509 N84-13335
Development of quantitative infrared analysis for monitoring water and emulsifying agents in fire-resistant microemulsion diesel fuels
[AD-A133242] 06 p0812 N84-15286

CHEN, S. C.
Sampling system for wheat (Triticum aestivum L) area estimation using digital LANDSAT MSS data and aerial photographs
[E84-10139] 16 p2506 N84-26087
Thomson backscattering from an intense relativistic electron beam as a diagnostic for a free electron laser
[AD-A143027] 21 p3409 N84-31623

CHEN, S. H.
Design and operation of a light-scattering device for sizing and velocimetry of large droplets
[DE83-902641] 03 p0377 N84-12456
Photon correlation spectroscopy and applications
22 p3683 N84-33352

CHEN, S. S.
Nonlinear stability control
[DE83-014341] 01 p0082 N84-10532
Dynamics of tubes in fluid with tube-baffle interaction
[DE84-001452] 07 p1003 N84-16508
Instability of circular cylinder arrays in cross flow
10 p1506 N84-19847
Experiments on tubes conveying fluid
[DE84-004031] 20 p3185 N84-30237
Stability of tubes conveying fluid
[DE84-010573] 20 p3185 N84-30240

CHEN, T. H.
The stratified turbulent mixing layer: Velocity and concentration measurements compared with a discrete vortex model 05 p0626 N84-14117
Four-valued logic star algorithm and their applications
[AD-P002370] 14 p2194 N84-24161

CHEN, T. S.
Vinyl styrylpyridines and their copolymerization with bismaleimide resins
[NASA-CASE-ARC-11429-1-CU]
07 p0979 N84-16341
Process for preparing perfluorotriazine elastomers and precursors thereof
[NASA-CASE-ARC-11402-1] 13 p1961 N84-22744

CHEN, W. H.
Longitudinal vibrations of rods of finite length with radial deformation
[AD-A142674] 21 p3421 N84-31703

CHEN, W. T.
Large scale software development project on the design of a computer network system 24 p3959 N84-35065

CHEN, W. Y.
Comparative evaluation of existing concepts for a 10-tesla FED toroidal field coil
[DE83-012817] 03 p0429 N84-12815

CHEN, X.
The synthesis of ternary functions under fixed polarities and ternary I-2L circuits
[AD-P002381] 14 p2196 N84-24172

CHEN, Y.
A numerical method in solving a coupled thermoelasticity equation and some results
[AD-A130183] 01 p0129 N84-10843
Hydrogen in MgO crystals thermochemically reduced at very high temperatures
[DE83-014058] 03 p0453 N84-12981
Parametric characteristics of an electrically initiated HF laser
[AD-A144324] 24 p3908 N84-34757

CHEN, Y. P.
New conformal solution theory
[PB83-249441] 03 p0457 N84-13008

CHENETTE, D. L.
The Mimas ghost revisited: An analysis of the electron flux and electron microsignatures observed in the vicinity of Mimas at Saturn
[NASA-CR-174596] 03 p0464 N84-13056

CHENEVERT, T. L.
Resolution and quantitative accuracy improvements in ultrasound transmission imaging
21 p3490 N84-32113

CHENEY, B. W.
GaAs/GaAlAs bipolar heterojunction gate array
[AD-A138203] 12 p1913 N84-22466

CHENG, A. M. T.
Anodic oxide formation on Ti-6Al-4V in chromic acid for adhesive bonding
[AD-A140057] 15 p2298 N84-24790

CHENG, C. H.
Process for preparing perfluorotriazine elastomers and precursors thereof
[NASA-CASE-ARC-11402-1] 13 p1961 N84-22744

CHENG, E. S.
Large scale anisotropy of the 3K cosmic background radiation at 24.8, 31.4 and 46.0 GHZ
05 p0765 N84-15020

CHENG, E. T.
Nuclear design of a very-low-activation fusion reactor
[DE83-017470] 03 p0448 N84-12949
Low-activation fusion-reactor design studies
[DE83-017688] 04 p0608 N84-14014

CHENG, H. S.
Elastohydrodynamic lubrication of rough surfaces
15 p2315 N84-24896
Micro-elastohydrodynamic lubrication
15 p2341 N84-25053
CHENG, J. P.
A study of the relationship between exhaust emissions and fuel economy
[PB83-235564] 03 p0385 N84-12506
CHENG, K.
A computer program designed for contour chart plotting 24 p3959 N84-35068
CHENG, K. T.
Relativistic correlation theory of atomic structures
[DE84-006745] 14 p2230 N84-24372
CHENG, L.
Prochloron research
[NASA-CR-173264] 10 p1543 N84-20113
Prochloron on synaptula 10 p1543 N84-20114
Prochloron-ascidian symbioses: Photosynthetic potential and productivity 10 p1544 N84-20117
Diurnal rhythm in the cell-division frequency of prochloron (prochlorophyta) in nature
10 p1544 N84-20118
Chlorophyll and carotenoid pigments of prochloron (prochlorophyta) 10 p1544 N84-20119
Report of prochloron research, IPE-7 (Palau, February 1982) 10 p1544 N84-20122
CHENG, L. J.
Semiconductor processing with excimer lasers
[DE83-007509] 03 p0380 N84-12477
Characterization of grain boundaries in silicon
[NASA-CR-173459] 12 p1912 N84-22460
CHENG, P.
Convective heat transfer in porous media
15 p2317 N84-24903
CHENG, R. K.
The influence of combustion on Reynolds stress in a strongly heated turbulent boundary layer
[DE83-015524] 02 p0220 N84-11444
Conditional velocity statistics in premixed CH-4-air and C-2H-4-air turbulent flames
[DE84-012257] 22 p3549 N84-32464
CHENG, S.
An accurate theory and simple fourth order governing equations for orthotropic and composite cylindrical shells
[AD-A134532] 07 p1062 N84-16886
CHENG, U.
Engineering evaluations and studies. Volume 1: Exhibit A
[NASA-CR-171724] 06 p0794 N84-15174
Engineering evaluations and studies. Volume 2: Exhibit B, part 1
[NASA-CR-171725] 06 p0794 N84-15175
Engineering evaluations and studies. Volume 2: Exhibit B, part 2
[NASA-CR-171726] 06 p0794 N84-15176
Engineering evaluations and studies. Volume 3: Exhibit C
[NASA-CR-171727] 06 p0794 N84-15177
CHENG, W. S.
Computation of three-dimensional unsteady flow in rigid and deformable curved tubes 03 p0375 N84-12440
CHENG, Y. N.
Evolution of a heave control system for an amphibious hovercraft
[CAR-8401] 16 p2475 N84-25864
CHENGGI, S.
Journal of the Chinese Society of Astronautics (selected articles)
[AD-A131032] 02 p0183 N84-11191
CHENGTIAN, L.
The growth and measurement of single-crystal doped GGG (Gd3-xCaxGa5-xZrx012)
[AD-A131875] 03 p0452 N84-12971
CHENOWETH, D. R.
Gas-transfer analysis. Section B: Real gas results via the vanderWaals equation of state and virial extension of its limiting Abel-Noble form
[DE83-013281] 01 p0081 N84-10527
CHEO, B. R.
Interaction of electromagnetic fields with plasma
[AD-A135173] 08 p1232 N84-18054
An investigation of RF currents in a magnetized plasma using a slow wave structure
[AD-A135880] 09 p1385 N84-19047
CHEOK, K. C.
Design and microprocessor-based implementation of digital frequency selective filters for application in terrain roughness identification
[AD-A133459] 06 p0897 N84-15826
CHEPELEV, V. P.
Special features of electrochemical determination of non-uniformly distributed oxygen in melts
[BLL-M-35105-(5828.4)] 01 p0036 N84-10226
CHEPILKO, N. M.
Manifestation of the Fermi resonance in surface polariton spectra
[NASA-TM-77386] 14 p2222 N84-24330
CHEPPONIS, M.
Dynamically stable legged locomotion
[AD-A136644] 09 p1363 N84-18905
CHERDACK, R. N.
d-d Tokamak reactor assessment
[DE83-016127] 04 p0809 N84-14019
CHERENKOVA, Y. V.
Relations between algorithms of adaptive optimization of antenna arrays and algorithms of optimum detection of multidimensional stochastic signal
22 p3566 N84-32588
CHEREVCHENKO, T. M.
Effects of prolonged weightlessness on orchidaceae proteins 23 p3805 N84-34130
CHERGOLEISHVILI, T. T.
Modeling anisotropic properties of media with oriented fractures 17 p2706 N84-27234
CHERKASOV, G. V.
Condition of erythrocytes during long-term exposure to magnetic field 02 p0261 N84-11711
CHERKASOV, O. A.
Objectivization of evaluation of speech intelligibility during flights 02 p0261 N84-11713
CHERN, S. S.
Energy absorption by polymer crazing
[NASA-CR-173275] 07 p0978 N84-16335
Propagation of crazing in viscoelastic media
[NASA-CR-173244] 07 p1015 N84-16583
CHERNIKHOV, A. Y.
Synthesis of polyheteroarylenes for highly heat-resistant materials
[AD-A140610] 17 p2626 N84-26804
CHERNIN, D.
Research on intense electron beams and applications
[AD-A134068] 05 p0743 N84-14882
Beam current limitations due to instabilities in modified and conventional betatrons
[AD-A133337] 06 p0915 N84-15947
External injection into a high current modified betatron accelerator
[AD-A134694] 08 p1229 N84-18030
A Bumpy Torus betatron
[AD-A141840] 19 p3107 N84-29742
Stability of laminar electron layers
[AD-A143788] 23 p3822 N84-34235
CHERNITSKIY, A.
More use of helicopters in construction work urged
24 p3851 N84-34424
CHERNOFF, H.
Numerical methods for Bayes sequential decision problems
[AD-A140418] 16 p2551 N84-26369
CHERNON, D.
High-current betatron, phase 1
[AD-A143748] 23 p3824 N84-34252
CHERNOPISKIY, D. I.
Three-dimensional stressed state of longitudinally corrugated elastic cylinders 17 p2651 N84-26950
CHERNOV, A. A.
Experimental study of stress-deformed state of three-layer shells made with anisotropic high-module composite materials 24 p3868 N84-34514
CHERNOV, D. B.
Interrelationship between temperature intervals of inverse martensite transformation and shape restoration in titanium nickelide-based alloys
12 p1786 N84-21648
CHERNOV, G. M.
Photographic characteristics of polymer composite including complex with charge transfer
18 p2826 N84-27944
CHERNOV, I. P.
Role of charged state in build-up and annealing of deep centers in GaAs irradiated by protons
18 p2825 N84-27938
CHERNOV, V. N.
Alignment of multistate laser amplifiers with periodic space filtration of beam 21 p3381 N84-31452
CHERNOV, Y. N.
Transient processes in an inductor system consisting of a flat coil and a multilayer conducting medium
[AD-A139053] 13 p2039 N84-23232
CHERNYADYEV, I. I.
Effects of prolonged weightlessness on orchidaceae proteins 23 p3805 N84-34130
CHERNYSHEV, A. S.
Interrelation between parameters of M-type traveling wave tube 22 p3568 N84-32598
CHERNYSHEV, L. I.
Highly porous powder-fiber composite materials
24 p3872 N84-34538
CHERNYSHEV, V. I.
Functional status of operators and its systemic and technical determinants 18 p2895 N84-28369
CHERNYSHOVA, N. V.
Influence of the base metal on the wear-resistance of high-strength cast iron
[BLL-M-35504-(5828.4)] 12 p1796 N84-21712
CHERON, P.
Metal-free cylindrical v-grooved optical cable
11 p1724 N84-21244
CHERRY, S. J.
ATE, ATLAS and the microprocessor
08 p1207 N84-17872
CHERRY, S. M.
The use of dual-polarization radar data to predict attenuation from precipitation on Earth-space paths
[ESA-CR(P)-1845] 12 p1809 N84-21798
CHERVENAK, J. G.
Ion-ion recombination rate in the EMP source region
[AD-A131148] 03 p0360 N84-12339
CHERVOV, G. A.
Stress-state index and Nadai-Lode parameter
[BLL-M-35433-(5828.4)] 08 p1189 N84-17612
CHESANOVA, T.
Development of equipment for 'Cosmos-1514' biosatellite 19 p2976 N84-28866
CHESHIRE, H. M.
Use of LANDSAT MSS (multispectral scanner) digital data in water quality mapping of the Neuse River estuary, North Carolina
[PB83-256750] 06 p0867 N84-15645
CHESHIRE, L. F.
The avionics integrity program (AVIP)
[AD-P002817] 13 p2060 N84-23362
CHESLEY, A. L.
Space systems environmental interactions technology program
[AD-P002125] 16 p2525 N84-26211
CHESLEY, K. L.
Fault detection and protection system for neutral beam generators on the Neutral Beam Engineering Test Facility (NBETF)
[DE84-006634] 12 p1903 N84-22394
CHESNUTT, J. C.
Deformation and fatigue of aircraft structural alloys
[AD-A133947] 05 p0654 N84-14297
Processing and properties of airframe materials
[AD-A140832] 17 p2624 N84-26797
CHESTER, D. L.
Design of a system that understands informal specifications
[AD-A131479] 02 p0273 N84-11785
CHESTER, J. B.
High-frequency acoustic backscatter from the sea surface
[AD-A143536] 22 p3852 N84-33152
CHESTERS, D.
Performance appraisal of VAS radiometry for GOES-4, -5 and -6
[NASA-TM-85125] 09 p1344 N84-18781
Calculations of atmospheric transmittance in the 11 micrometer window for estimating skin temperature from VISSR infrared brightness temperatures
[NASA-TM-86105] 15 p2319 N84-24922
CHESTUKHIN, V. V.
Normal human coronary circulation during postural tests and decompression of lower half of body
02 p0259 N84-11699
Respiratory tract closing volume and structure of total lung capacity during seven-day hypokinesia in head-down position 07 p1045 N84-16778
CHETVERIKOV, A. V.
A melt for the electrolytic application of titanium plating
[BLL-OA-TRANS-3111-(6L96.3)]
06 p0804 N84-15241
CHETVERIKOV, N. I.
High speed laser formation of small diameter apertures in printed circuit board blanks 24 p3874 N84-34547
CHETWYND, J. H., JR.
Atmospheric transmittance/radiance: Computer code LOWTRAN 6. Supplement: Program listings
[AD-A137689] 11 p1706 N84-21123
Atmospheric transmittance/radiance: Computer code LOWTRAN 6
[AD-A137786] 11 p1707 N84-21126
CHEUNG, J. T.
Growth of HgCdTe by modified molecular beam epitaxy
[AD-A137243] 10 p1588 N84-20407
Growth of CdTe/HgTe superlattice with the LADA (Laser Assisted Deposition and Annealing) techniques
[AD-A143948] 23 p3830 N84-34295

CHEUNG, L. H.
Submillimeter wavelength survey of the galactic plane from l = -5 deg to l = +62 deg: Structure and energetics of the inner disk
[NASA-TM-86077] 20 p3319 N84-31069
CHEUNG, M. M.
Experimental study of strong nonlinear-optics effects in liquid crystals 21 p3483 N84-32071
CHEVALERAUD, J. P.
Visual function and the definition of thresholds for exposure to laser radiation 22 p3632 N84-33019
CHEVALLIER, J. P.
Three-dimensional effects on airfoils
[NASA-TM-77025] 06 p0781 N84-15118
Use of adaptive walls in 2D tests
[NASA-TM-77380] 10 p1432 N84-19359
CHEVONE, B. I.
Rainfall chemistry and potential beneficial-detrimental impact to indigenous vegetation
[AD-A138471] 12 p1845 N84-22027
CHEW, H. W.
Raman and fluorescent scattering by molecules embedded in small particles
[DE84-001278] 04 p0597 N84-13937
CHEW, W. C.
Electromagnetic wave theory and remote sensing 22 p3683 N84-33350
Profile inversion of a planar medium with a line source or a point source 23 p3776 N84-33938
Diffraction of waves by bed boundaries in an open borehole 23 p3776 N84-33939
CHI, C.
Digital filter processor design for spaceborne scatterometers 23 p3777 N84-33948
CHI, M. T. H.
Problem solving abilities
[AD-A134717] 06 p1202 N84-17840
CHI, R. M.
Aeroelastic analysis for propellers - mathematical formulations and program user's manual
[NASA-CR-3729] 03 p0388 N84-12530
Subsonic/transonic stall flutter investigation of a rotating rig
[NASA-CR-174625] 23 p3695 N84-33417
CHIA, S. H.
Study of metal-insulator transition 24 p3955 N84-35044
CHIAN, A. C. L.
Nonlinear theory of the free-electron laser
[INPE-3193-PRE/557] 21 p3409 N84-31618
Nonlinear effects in electron cyclotron resonance heating of plasmas
[INPE-3233-PRE/583] 24 p3964 N84-35103
Nonlinear temporal modulation of pulsar radioemission
[INPE-3272-PRE/597] 24 p3995 N84-35282
CHIAN, C. T.
NASTRAN structural model for the large 64-meter antenna pedestal. Part 2: Improved model 04 p0519 N84-13412
NASTRAN structural model for the large 64-meter antenna pedestal. Part 3: Applications to hydrostatic bearing oil film 22 p3574 N84-32638
CHIAN, E. S. K.
Evaluation of process systems for effective management of aluminum finishing wastewaters and sludges
[PB84-170661] 16 p2520 N84-26178
CHIANG, C. K.
Microstructure and electrical properties of ceria-based ceramic electrolytes 11 p1741 N84-21361
CHIANG, C. R.
Effective elastic moduli of an isotropic, two-phase composite 15 p2309 N84-24852
CHIANG, D. T.
PAN AIR: A computer program for predicting subsonic or supersonic linear potential flows about arbitrary configurations using a higher order panel method. Volume 4: Maintenance document (version 1.1)
[NASA-CR-3254] 23 p3690 N84-33388
CHIANG, L. C.
A report on the task of collecting geological and structural data in Rio de Janeiro state
[INPE-2851-NTE/203] 17 p2726 N84-27351
CHIANG, S.
Vibrational spectroscopy of chemisorbed molecules by infrared emission
[DE84-000956] 04 p0602 N84-13973
Vibrational spectra of CO on Ni(100) studied by infrared emission spectroscopy
[DE84-009246] 21 p3362 N84-31327
CHIANG, W. H.
Automated microdensitometer for digitizing astronomical plates 18 p2841 N84-28039
CHIANG, Y. J.
Design of mechanical joints in composites 17 p2674 N84-27038
CHIANG, Y. T.
VLSI architectures for recognition of context-free languages 09 p1402 N84-19160
CHIAPPETTA, S. J.
Calibration of engines laboratory air flow measuring devices
[AD-A137909] 11 p1660 N84-20831
CHIAPPETTI, L.
Multifrequency observations of active galactic nuclei 24 p3972 N84-35152
Preliminary results of coordinated optical UV and X-ray observations of magnetic white dwarfs in binaries 24 p3980 N84-35216
CHIARAMONTE, F. P.
Determination of compressor in-stall characteristics from engine surge transients
[NASA-TM-83639] 13 p1932 N84-22566
CHIARELLI, C.
Thermal control of tethered satellite in a very low altitude aerodynamic mission 10 p1446 N84-19444
Simplification of thermal design by the use of effective sink temperature method 10 p1448 N84-19461
CHIARELLO, M. G.
Auxiliary programs for the Metal-Enclosed Microstrips Project
[INPE-3172-PRE/542] 21 p3465 N84-31964
Analysis of microstrip line tolerance using the Monte-Carlo method
[INPE-2814-PRE/370] 23 p3740 N84-33705
CHIBA, Z.
Particle impact erosion. Volume 3. User's manual chamber flowfield code (CFC) and Charring Material Ablation-Erosion (CMAE) code
[AD-A131007] 02 p0186 N84-11208
CHIBISOV, D. M.
On the Edgeworth expansion for the logarithm of the likelihood ratio, part 2
[CWI-MS-R8401-PT-2] 19 p3094 N84-29652
CHICHAGOV, P. K.
Demonstration of gas bubbles in canine pulmonary artery and aorta by means of ultrasonic echography with intravenous air infusion 02 p0261 N84-11708
Ultrasonography of canine soft tissues during decompression 20 p3254 N84-30653
CHICHESTER, F.
Exhibit D modular design attitude control system study
[NASA-CR-170993] 11 p1623 N84-20625
CHICHESTER, F. D.
Modular design attitude control system
[NASA-CR-170996] 10 p1438 N84-19392
Modular design attitude control system
[NASA-CR-173684] 16 p2548 N84-26352
CHICHKOVA, L. K.
Special features of information presentation in teaching systems
[BLL-M-35604-(5828.4)] 21 p3516 N84-32273
CHICKLIS, E. P.
XeF pumped Tm:YLF laser scaling
[AD-A140004] 15 p2339 N84-25041
CHIDLAW, M. B.
Novel composite membranes
[PB83-243170] 03 p0351 N84-12284
Coupled-transport membranes for metal separations, phase 5
[PB84-127034] 09 p1286 N84-18396
CHIE, C. M.
Satellite Data Transmission (SDT) requirement
[NASA-CR-175231] 15 p2319 N84-24920
Autonomous Integrated Receive System (AIRS) requirements definition. Volume 1: Executive summary
[NASA-CR-175261] 22 p3575 N84-32646
Autonomous Integrated Receive System (AIRS) requirements definition. Volume 2: Design and development
[NASA-CR-175262] 22 p3576 N84-32647
Autonomous Integrated Receive System (AIRS) requirements definition. Volume 3: Performance and simulation
[NASA-CR-175263] 22 p3576 N84-32648
Autonomous Integrated Receive System (AIRS) requirements definition. Volume 4: Functional specification for the prototype Automated Integrated Receive System (AIRS)
[NASA-CR-175264] 22 p3576 N84-32649
CHIEN, C. H.
Detection of cracks on highway pavements
[PB83-238204] 04 p0516 N84-13389
CHIEN, J. C. W.
Radiolysis of resist polymers. 1: Poly(methyl-alpha-haloacrylates) and copolymers with methylmethacrylate
[AD-A131864] 03 p0356 N84-12315
Thermal degradation studies of segmented thermoplastic elastomers
[AD-A143954] 23 p3724 N84-33600
CHIEN, J. Z.
Microwave remote sensing of ocean surface wind speed and rain rates over tropical storms 17 p2716 N84-27288
CHIEN, R. T.
Multilevel semantic analysis and problem-solving in the flight-domain
[NASA-CR-173177] 07 p1050 N84-16804
CHIEN, T. C.
A study on the prediction of the starting transient process of solid propellant rocket motors
[AD-A139453] 14 p2118 N84-23692
CHIESA, M. L.
Three dimensional stress analysis of an artillery projectile joint
[AD-P002955] 14 p2199 N84-24195
CHIEU, T. C.
The anomalous magnetoresistance of graphite at high magnetic fields
[AD-A133861] 05 p0753 N84-14938
CHIGIER, N.
Measurements in liquid fuel sprays 11 p1608 N84-20526
CHIKAZAWA, T.
Contributions to dynamics study of air-lubricated gas bearings at high compressibility numbers 17 p2674 N84-27039
CHILACHAVA, T. I.
Central burst of simultaneously rotating and gravitating body 13 p1969 N84-22783
CHILDS, D. W.
The SSME seal test program: Leakage tests for helically-grooved seals
[NASA-CR-170921] 03 p0383 N84-12495
Rotordynamic forces developed by labyrinth seals
[AD-A136217] 09 p1316 N84-18599
Rotordynamic characteristics of the HPOTP (High Pressure Oxygen Turbopump) of the SSME (Space Shuttle Main Engine)
[NASA-CR-170987] 10 p1438 N84-19389
SSME interstage seal research
[NASA-CR-170995] 11 p1624 N84-20631
A comparison of experimental and theoretical results for leakage, pressure distribution, and rotordynamic coefficients for annular gas seals
[NASA-CR-174000] 24 p3910 N84-34765
CHILDS, J. D.
User requirements and a high level design of the hydrographic software/data processing subsystem of an airborne laser hydrography system
[PB83-228569] 01 p0127 N84-10830
CHILDS, K. D.
Species-specific densities of states of ga and as in the chemisorption of H2O on GaAs(110)
[AD-A134344] 07 p1080 N84-17022
Species-specific densities of states of ga and as in the chemisorption of oxygen on GaAs(110)
[AD-A134416] 07 p1080 N84-17024
CHILDS, W. J.
Electric-dipole moment of CaF by molecular-beam, laser-RF, double-resonance study of Stark splittings
[DE84-005413] 15 p2405 N84-25439
CHILENSKAS, A. A.
Lithium/iron sulfide batteries for electric-vehicle propulsion and other applications
[DE84-004193] 09 p1310 N84-18565
System/battery design interaction for a lithium-metal sulfide van battery
[DE84-007274] 15 p2421 N84-25537
Use of the Li-Al/FeS battery in advanced vehicle propulsion systems
[DE84-007275] 15 p2421 N84-25538
Thermal management of a lithium/iron-sulfide battery
[DE84-013438] 22 p3587 N84-32722
CHILL, J. L.
Process development of making bearings and bushings from continuous-cast SAE 660 bronze alloy plate
[DE83-014234] 01 p0057 N84-10374
CHILTON, C. J.
Spectrum resource assessment in the 5650-5925 MHz
[PB84-127430] 09 p1305 N84-18530
CHIMA, R. V.
Analysis of inviscid and viscous flows in cascades with an explicit multiple-grid algorithm
[NASA-TM-83636] 13 p1925 N84-22527
CHIN-HO, L.
A pressure-shear experiment for studying the dynamic plastic responses of metals at shear strain rates of 10 to the 5th power s(-1) 03 p0387 N84-12519
CHIN, B. A.
Effect of heat treatment on the impact properties of a 12Cr-1Mo-V-W steel
[DE84-003440] 07 p0976 N84-16324
Austenitizing and microstructure of a HT-9 steel
[DE84-004914] 11 p1635 N84-20687

CHIN, B. L.
The growth and characterization of single crystal (Cd, Zn)S thin films relevant to the study of the (Cd, Zn)S/Cu/sub x/S photovoltaic cell
[DE84-003288] 11 p1745 N84-21385

CHIN, D.
Tropical cyclone sea-state probability model development and application
[AD-A142212] 19 p3059 N84-29407

CHIN, D. T.
Electrocatalysis of fuel cell reactions: Investigation of alternate electrolytes
[NASA-CR-173261] 10 p1529 N84-20013

CHIN, G.
Acoustic-optic spectrometer. 1: Noise contributions and system consideration
[NASA-TM-85613] 14 p2221 N84-24326
Vibrational and rotational excitation of CO in comets. Part 1: Non-equilibrium calculations. Part 2: Results of the calculation for standard bright comet, comet Iras-Araki-Alcock and comet Halley
[NASA-TM-86122] 16 p2579 N84-26545

CHIN, H.
Effect of stacking sequence on fatigue life of composite materials 24 p3958 N84-35058

CHIN, H. W.
Wafer-scale laser pantography. Part 6: Direct-write interconnection of VLSI gate arrays
[DE84-012676] 22 p3601 N84-32815

CHIN, I.
Durability and failure analyses of a silane treated Alpha-Al2O3/Polyethylene joint in wet environment
[AD-A136089] 09 p1333 N84-18705

CHIN, L.
The role of cobalt on the creep of Waspaloy
[NASA-CR-174628] 10 p1458 N84-19523

CHIN, R.
AlGaAsSb vapor phase epitaxy and laser program
[AD-A133123] 06 p0922 N84-15995

CHIN, R. C. Y.
Theory of pulse propagation in fluid saturated porous layers
[DE84-002714] 07 p1003 N84-16503
High frequency acoustic instabilities in heated fluids
[DE84-005114] 10 p1575 N84-20324

CHING, J. K. S.
Urban scale variations of turbulence parameters and fluxes
[PB84-209113] 22 p3626 N84-32980

CHINITZ, W.
A comprehensive model to determine the effects of temperature and species fluctuations on reaction rates in turbulent reaction flows
[NASA-CR-175365] 08 p1155 N84-17520
A model for reaction rates in turbulent reacting flows
[NASA-TM-85746] 14 p2110 N84-23650
Models for calculating reaction rates in turbulent, reacting flows 21 p3355 N84-31281

CHINN, J. M.
Investigation of the acoustic characteristics of aircraft/engines operating in a dry-cooled jet engine maintenance test facility 10 p1513 N84-19901

CHINO, J. J.
Temperature controlled adjusting mechanism
[AD-D011077] 21 p3406 N84-31601

CHINZEL, N.
A study of air breathing rockets. 3: Supersonic mode combustors
[NAL-TR-756] 04 p0489 N84-13213

CHIODELLI, G.
Borophosphate vitreous electrolytes: The relationship between local order, thermal stability and ion transport 11 p1743 N84-21372

CHIONIS, M. B.
Investigation of power factor controller applications
[AD-A144466] 24 p3898 N84-34686

CHIOU, A. E. T.
Parametric study of optically pumped far-infrared waveguide lasers, part 1. Theory and experiment of folded Fabry-Perot quasi-optical ring resonator diplexer 05 p0687 N84-14515

CHIPMAN, R.
Body-freedom flutter of a 1/2-scale forward-swept-wing model, an experimental and analytical study
[NASA-CR-172324] 12 p1771 N84-21553

CHIPP, T.
Investigation of sol-gel antireflection coatings
[DE84-008381] 19 p3030 N84-29218

CHIQUELIN, J. J.
Midi-robots get underway in September: Lab-industry link 24 p3892 N84-34649

CHIQUILLO, M.
Nondestructive testing of composite structures
[SNIAS-832-210-108] 16 p2500 N84-26045

CHIRON, M.
The lead file: Car fuel additives
[INFORM-NOTE-29] 17 p2725 N84-27341

CHIRON, P.
Experimental investigation of the effect of electrets on bone healing 23 p3809 N84-34150

CHISHOLM, D. A.
The use of interactive graphics processing in short-range terminal weather forecasting: An initial assessment
[AD-A137165] 11 p1687 N84-21004
An assessment of interactive graphics processing in short-range terminal weather forecasting
[AD-A142706] 20 p3246 N84-30601

CHISHOLM, J. P.
Development and flight test of an X-band precision approach concept for remote-area rotorcraft operations
[NASA-TM-84398] 01 p0007 N84-10041
Development and flight test of a helicopter compact, portable, precision landing system concept
[NASA-TM-85951] 15 p2259 N84-24566

CHISHOLM, M. H.
Theoretical and experimental studies of the electronic structure of the Mo3(Micro3-0)(Micro3-OR)(Micro-OR)3(OR)6 type of triangulo metal atom cluster compound
[AD-A133516] 06 p0915 N84-15951
Reactions of metal-metal multiple bonds. Part 14: Synthesis and characterization of triangulo-W3 and Mo2W-oxo capped alkoxide clusters. Comproportionation of M-M triple bonds, sigma(2)pi(4) and d(o) Metal-oxo groups: M triple bond M + M triple bond O yields M3(micron 3-O)
[AD-A141067] 19 p2987 N84-28930

CHISHOLM, W. L., JR.
The Marshall Space Flight Center Low-Energy Ion Facility: A preliminary report
[NASA-TM-82559] 04 p0596 N84-13933

CHIU, D.
Closed vessel combustion studies of stick propellant 13 p1948 N84-22665

CHIU, H. Y.
Investigation of coherent anti-Stokes Raman scattering measurements in carbon ablation experiments
[AD-A130578] 01 p0036 N84-10230

CHIU, I. L.
Ring tensile test of modified Halthane 88-2
[DE84-005891] 12 p1802 N84-21750

CHIU, L. C.
3-5 semiconductor lasers and detectors 07 p1009 N84-16541

CHIU, M. C.
Fuel ignition by high voltage capacitive discharges
[PB83-209155] 01 p0039 N84-10245

CHIU, S. C.
Advanced ICRF launchers for heating and current drive in large Tokamaks
[DE84-009092] 19 p3108 N84-29750

CHIU, W.
Parametric testing and evaluation of a free-piston Stirling engine/linear-compressor system
[DE83-017282] 04 p0545 N84-13590

CHIZECK, H. J.
Fault tolerant optimal control
[NASA-CR-174471] 02 p0278 N84-11822

CHIZHOV, S. V.
Fluid intake at high altitudes 07 p1044 N84-16772

CHLEBECEK, R. A.
Multicomponent velocity measurement in a pison-cylinder configuration using laser velocimetry
[NASA-TM-83534] 05 p0627 N84-14121

CHLEBOUN, P. V.
An investigation of the interaction between multiple dilution jets and combustion products 15 p2292 N84-24758

CHLEWICKI, G.
A comprehensive ultraviolet extinction study: Grain model and grain evolution implications 24 p3982 N84-35232

CHMIELEWSKI, M.
Chemical news (selected articles)
[AD-A140887] 17 p2627 N84-26808

CHMURA, L. J.
Accuracy of software development activity data: The software cost reduction project
[AD-A137639] 11 p1706 N84-21122

CHO, N. K.
Growth of epitaxial ice crystals on covellite (CuS) under reduced air pressure 02 p0306 N84-12008

CHO, T. K.
Preliminary flight evaluation of F100 engine model derivative airstart capability in an F-15 airplane
[NASA-TM-86031] 19 p2965 N84-28792

CHO, U. W.
Creep and creep recovery of 2618-T61 aluminum under variable temperature
[AD-A137976] 12 p1797 N84-21723

CHO, Y.
Self-pulsing and chaos in inhomogeneously broadened single-mode lasers 14 p2239 N84-24436
The 20 GHz solid state transmitter design, impatt diode development and reliability assessment
[NASA-CR-174716] 23 p3741 N84-33715

CHOCHOL, D.
V 505 Monocerotis: New binary shell star 15 p2423 N84-25553

CHODZKO, R. A.
Temporal measurement of spectrally resolved output of multiline HF lasers
[AD-A137983] 12 p1819 N84-21859

CHOE, J. Y.
High space harmonic perturbations in traveling wave tubes
[AD-A130204] 01 p0070 N84-10458

CHOE, S. J.
Fatigue crack growth and low cycle fatigue of two nickel base superalloys
[NASA-CR-174534] 01 p0042 N84-10267

CHOI, C. Y.
Solvent effects on emission yield and lifetime for coumarin laser dyes. Requirements for a rotatory decay mechanism
[AD-A136358] 09 p1321 N84-18629
Electron donor-acceptor quenching and photoinduced electron transfer for coumarin dyes
[AD-A136345] 09 p1394 N84-19105

CHOI, D. W.
Investigation of axisymmetric confined turbulent jet mixing in the near region with adverse pressure gradient 04 p0478 N84-13148

CHOI, E.
The 60-GHz gyrotron development program
[DE83-012922] 02 p0214 N84-11402
Infrared monitoring of gyrotron windows
[DE84-004442] 10 p1499 N84-19799

CHOI, I.
The mechanics of delamination in fiber-reinforced composite materials. Part 1: Stress singularities and solution structure
[NASA-CR-172269] 04 p0491 N84-13221
The mechanics of delamination in fiber-reinforced composite materials. Part 2: Delamination behavior and fracture mechanics parameters
[NASA-CR-172270] 04 p0491 N84-13222

CHOI, K. S.
A study of the return to isotropy of homogeneous turbulence 06 p0780 N84-15110

CHOI, M.
Density of occupied d states in transition metal-metalloid metallic glasses
[DE84-001206] 04 p0503 N84-13298
EXAFS study of Metglas 2605 CO
[DE84-001203] 04 p0503 N84-13299

CHOI, P.
The Z-pinch program at Imperial College 10 p1583 N84-20372

CHOI, S. H.
The effect of noise and display orientation on cognitive performance
[AD-A136808] 10 p1550 N84-20158

CHOMIKI, M.
Chirp signal generator feasibility study
[TH-CSF-DASM-83/001/106] 07 p0999 N84-16482

CHOMSKY, A. N.
Linguistics 22 p3684 N84-33359

CHONA, R.
Dynamic crack growth in polymers
[AD-P003106] 16 p2467 N84-25811

CHONG, C. Y.
Distributed hypothesis formation in distributed sensor networks
[AD-A133849] 05 p0731 N84-14802
Distributed estimation systems
[AD-P002898] 13 p1980 N84-22857
Investigation of non-linear estimation of natural resonances in target identification
[AD-A139027] 13 p1984 N84-22878

CHONG, Y. P.
Beam dynamics in the Advanced Test Accelerator (ATA)
[DE84-001421] 04 p0598 N84-13947
Time-resolved beam-profile measurements on the Experimental Test Accelerator (ETA)
[DE84-002453] 07 p1072 N84-16969

CHOPRA, O. K.
Corrosion of ferrous alloys in eutectic lead-lithium environments
[DE84-000593] 04 p0502 N84-13292
Influence of a flowing-lithium environment on the fatigue and tensile properties of type 316 stainless steel
[DE84-000611] 04 p0503 N84-13295

Aging degradation of cast stainless steel: Status and program
[DE84-004018] 08 p1135 N84-17381

CHOR, B.
An application of number theory to the organization of raster-graphics memory
[AD-A140638] 17 p2758 N84-27508

CHORNIK, B.
Crystalline effects in Auger electron spectroscopy
[AERE-R-11051] 18 p2942 N84-28658

CHOROS, J.
Acoustic emission accompanying phase change in deformed 1H18N9T steel
[ISSN-0208-5658] 19 p2991 N84-28952

CHOROWICZ, J.
Interpretation of combined LANDSAT-Heat Capacity Mapping Mission (HCMM) data for geological analysis. Evaluation of scale effect on interpretation of a multisource image 23 p3769 N84-33894

CHOTAI, A.
Design of Smith control schemes for time-delay systems based on plant step data
[RR-231] 05 p0733 N84-14812
Robustness and sensitivity of Smith predictor controllers for time-delay systems
[RR-238] 13 p1974 N84-22812
The effects of widening time constants and increasing time delay on controller design using approximate models
[RR-239] 13 p1975 N84-22817
Stability and performance deterioration due to modelling errors
[RR-235] 13 p2031 N84-23166
Parameterization and approximation methods in feedback theory with applications in high gain, fast sampling and cheap optimal control
[RR-241] 13 p2031 N84-23167
A simulation aid to gain estimates for robust tuning regulators
[RR-245] 18 p2922 N84-28533
Some notes on optimization of confidence bands in process control based on approximate models
[RR-215] 19 p3003 N84-29031
Control systems design for linear dynamic systems using simple models: Some case studies. Part 1: The single-input/single-output case
[RR-247-PT-1] 20 p3171 N84-30134
A simulation technique for checking the circle criterion
[RR-248] 20 p3267 N84-30733

CHOTIROS, N. P.
Experimental apparatus for studying moving thermoacoustic sources
[AD-A134517] 07 p1010 N84-16549

CHOU, C. K.
Effects of long-term low-level radiofrequency radiation exposure on rats. Volume 1: Design, facilities, and procedures
[AD-A134079] 06 p0885 N84-15756
Effects of long-term low-level radiofrequency radiation exposure on rats. Volume 3: SAR (Specific Absorption Rate) in rats exposed in 2450-MHz circularly polarized waveguide
[AD-A135376] 09 p1361 N84-18890
Effects of long-term low-level radiofrequency radiation exposure on rats. Volume 2: Average SAR and SAR distribution in man exposed to 450-MHz RFR
[AD-A135455] 09 p1361 N84-18891
Effects of long-term low-level radiofrequency radiation exposure on rats. Volume 4: Open-field behavior and corticosterone
[AD-A137743] 12 p1863 N84-22141
Effects of long-term low-level radiofrequency radiation exposure on rats. Volume 6: Hematological, serum chemistry, thyroxine, and protein electrophoresis evaluations
[AD-A141124] 19 p3063 N84-29434

CHOU, L. W.
Partial analysis of Insta-Foam
06 p0928 N84-16030

CHOU, S. H.
Effect of asymmetric Ekman dissipation on finite-amplitude baroclinic disturbance
16 p2527 N84-26223

CHOU, S. T.
Broadband rotor noise analyses
[NASA-CR-3797] 12 p1899 N84-22365

CHOU, S. Y.
Submicron structures technology and research
22 p3683 N84-33353

CHOU, T. S.
Investigation on low pressure limit of Bayard-Alpert gauge
[DE84-002578] 05 p0685 N84-14502

CHOU, T. W.
Fiber composite materials research in the UK: Assessment report
[AD-A132386] 04 p0492 N84-13226
An investigation of some basic properties of hybrid composite materials
[AD-A138040] 12 p1789 N84-21669
A probabilistic theory for the strength of discontinuous fibre composites 15 p2308 N84-24848
Threadwise analysis of woven fabric composites
[NAL-TR-792T] 16 p2470 N84-25832

CHOU, Y. F.
Effect of stacking sequence on fatigue life of composite materials 24 p3958 N84-35058

CHOU, Y. T.
Investigation of the FAA overlay design procedures for rigid pavements
[AD-A135317] 09 p1259 N84-18222
Analysis of fracture modes during extrusion and drawing of bimetal rods or wire
[DE84-009849] 20 p3157 N84-30051

CHOUDHURY, A.
Stabilization of a flexible body (hoop-column) antenna by feedback control law 14 p2245 N84-24478

CHOUDHURY, R.
Fatigue of niobium at elevated temperatures
[DE84-001373] 05 p0656 N84-14314

CHOVIL, D. V.
Advanced composite elevator for Boeing 727 aircraft. Volume 1: Technical summary
[NASA-CR-3290] 18 p2792 N84-27722

CHOW, E. Y.
Redundancy relations and robust failure detection
[NASA-CR-173252] 07 p1058 N84-16854

CHOW, L. M.
Evaluation of the epoxy system for the repair of fuel tank M109
[AD-A136923] 10 p1467 N84-19583

CHOW, L. S. H.
Structure of convective surface deposits and effect on MHD steam-plant design
[DE83-010757] 03 p0446 N84-12931

CHOW, P. L.
Analysis of some acoustics-jet flow interaction problems
[NASA-CR-175340] 07 p1069 N84-16944
On the control of a linear stochastic system with finite horizon
[AD-P002949] 14 p2198 N84-24189

CHOW, R. K.
Inversion of the acoustic plane wave reflection response of a layered ocean bottom
[AD-A132794] 18 p2928 N84-28570

CHOW, S. M.
Experimental evaluation of a high frequency radio data terminal in the ship-shore mode
[CRC-1375] 21 p3382 N84-31458

CHOW, S. N.
Abelian integrals and bifurcation theory
[AD-A142198] 19 p3089 N84-29613

CHOW, W. L.
Fluid dynamic mechanisms and interactions within separated flows and their effects on missile aerodynamics
[AD-A130831] 01 p0079 N84-10514

CHOW, Y. L.
Research in continuous speech recognition
[AD-A136990] 10 p1482 N84-19682

CHOWDHU, K.
Compact receivers for Shuttle Imaging Radar (SIR)-B SAR mission 23 p3778 N84-33953

CHOYKE, W. J.
Electron spectroscopy study of SiC
[AD-A134352] 07 p1080 N84-17023

CHRIEN, R. E.
Recent results in the Los Alamos compact torus program
[DE83-014147] 03 p0446 N84-12930
Translation of field-reverse configurations in the FRX C/T experiment
[DE84-007489] 14 p2230 N84-24376
Internal magnetic field measurements in a translating field-reversed configuration
[DE84-010054] 20 p3284 N84-30854
Hypernuclear research at the AGS
[DE84-010282] 20 p3294 N84-30915
Gamma-ray spectroscopy of hypernuclei
[DE84-013142] 22 p3654 N84-33162

CHRISP, M.
Airborne Visible/Infrared Imaging Spectrometer (AVIRIS): An advanced tool for Earth remote sensing 23 p3781 N84-33976

CHRISTE, K. O.
Inorganic halogen oxidizers
[AD-A139127] 14 p2121 N84-23714

Multi-(OTeF5)-substituted fluorocarbons
[AD-D011171] 23 p3751 N84-33778

CHRISTENSEN, C.
Solar and internal gain adjustments in calculation of energy conservation savings
[DE83-011983] 16 p2512 N84-26119
Solid state phase change materials for thermal energy storage in passive solar heated buildings
16 p2518 N84-26163

CHRISTENSEN, D. G.
A flight investigation of simulated data link communications during single-pilot IFR flight
03 p0313 N84-12046

CHRISTENSEN, E. R.
Grid-based line drawing quantization
[AD-A138503] 12 p1884 N84-22278

CHRISTENSEN, J.
Identification of strain-softening properties and computational predictions of localized fracture
[AD-A141866] 19 p3036 N84-29258

CHRISTENSEN, N.
Development and fabrication of a graphite/epoxy motor case for air launch missile applications
20 p3142 N84-29948

CHRISTENSEN, P.
The 1950 sulfur flow of Mauna Loa: Considerations for Io 13 p2080 N84-23479
Pinacate-Gran Desierto Region, Mexico: SIR-A data analysis 13 p2088 N84-23526
Radar-visible wind streaks in the Altiplano of Bolivia
13 p2088 N84-23527

CHRISTENSEN, R. A.
Seasonal precipitation forecasting with a 6 to 7 month lead time in the Pacific Northwest using an information theoretic model
[PB84-207018] 22 p3626 N84-32979

CHRISTENSEN, R. M.
Application of kinetic fracture mechanics to life prediction for polymeric materials
[DE84-003002] 07 p0979 N84-16347

CHRISTENSEN, T. E.
Focusing twist reflector for electron-cyclotron resonance heating in the Tandem Mirror Experiment-upgrade
[DE84-012954] 22 p3578 N84-32663

CHRISTENSEN, T. R.
Polarizing holographic reflector for Electron Cyclotron Resonant Heating (ECRH) on the Tandem Mirror Experiment Upgrade (TMX-U)
[DE84-003740] 08 p1162 N84-17568

CHRISTENSEN, W. D.
Temporal and spatial gaseous HCl concentrations in the near field STS postlaunch environment, Kennedy Space Center, Florida
[AD-A136935] 10 p1532 N84-20032

CHRISTENSON, J.
Detectors at 20 TeV and detector considerations for a high luminosity hadron-hadron machine
06 p0911 N84-15920

CHRISTIAN, H. J.
Lightning mapper development: Status and requirements 24 p3927 N84-34854

CHRISTIAN, J. B.
Perfluoroalkylether substituted phenyl phosphines
[AD-D011122] 22 p3558 N84-32529

CHRISTIANSEN, P.
Applications of analog Change Coupled Devices (CCD's)
[BMFT-FB-T-83-141] 03 p0456 N84-13002

CHRISTIANSEN, U.
Transport infrastructure: Is planning still achievable
10 p1424 N84-19310

CHRISTIANSEN, W. H.
Aerodynamics of E-beam sustained discharges in flow
[AD-A130100] 01 p0141 N84-10926

CHRISTIANSON, C. C.
Comparative response of lead-acid and nickel-iron batteries to pulsed and constant-current loads
[DE83-017939] 03 p0368 N84-12395
Ragone characteristics of aqueous mobile batteries and their application in projecting ranges of electric vehicles
[DE83-014701] 03 p0404 N84-12642
Application features and considerations in advanced lead-acid and nickel/iron EV batteries
[DE83-017936] 04 p0528 N84-13472
Impact of monoblock design and battery packaging on temperature excursion of nickel/iron batteries
[DE84-006444] 12 p1813 N84-21821

CHRISTIE, D. J.
Novette pulse-power-system description
[DE83-018185] 06 p0918 N84-15968

CHRISTIE, W. H.
Semiconductor processing with excimer lasers
[DE83-007509] 03 p0380 N84-12477

CHRISTNER, L.
Full scale phosphoric acid fuel cell stack technology development
[NASA-CR-174660] 16 p2518 N84-26165
CHRISTODOULIDIS, D. C.
Update: San Andreas Fault experiment
20 p3220 N84-30456
Sensitivity of SLR baselines to errors in Earth orientation 20 p3220 N84-30461
CHRISTOFF, J. R.
Evaluation of fatigue-creep crack growth in an engine alloy
[AD-A136956] 10 p1460 N84-19536
CHRISTOPH, G. H.
Numerical simulation of flow over rough surfaces, including effects of shock waves
[AD-A134700] 08 p1159 N84-17545
CHRISTOPHER, G. R.
Analysis of tutored videotape instructional delivery system
[AD-A133441] 07 p1050 N84-16800
CHRISTOPHER, P. A. T.
Bodies in compressible flow: The use of axial singularity distributions
[COLL-AERON.-8329] 11 p1600 N84-20483
Evolution of a heave control system for an amphibious hovercraft
[CAR-8401] 16 p2475 N84-25864
A ring source method for predicting the aerodynamic characteristics of bodies of revolution
[COA-8409] 19 p2957 N84-28744
Another look at the use of complex sources for the generation of bodies of revolution in incompressible flow
[CAR-8412] 21 p3398 N84-31555
CHRISTOPHERSON, C. D.
A self-contained captive trajectory system for a blowdown wind tunnel 14 p2099 N84-23596
CHRISTOPHOROU, L. G.
Isotope dependence of the breakdown strength of gases
[DE83-017272] 03 p0373 N84-12430
Electron-molecule interactions in gases and liquids: The electron-attachment process in gases and nonpolar liquids
[DE83-017205] 03 p0436 N84-12863
Electron-drift velocity and ionization and attachment coefficients in gases/mixtures for diffuse-discharge opening switches
[DE83-017206] 04 p0609 N84-14017
Negative ion formation in SF6 spark by-products
[DE84-012340] 20 p3181 N84-30212
Transport properties and dielectric strengths of gas mixtures for use in diffuse discharge opening switches
[DE84-011444] 21 p3394 N84-31536
Current assessment of the potential of dielectric gas mixtures for industrial applications
[DE84-011658] 22 p3588 N84-32724
CHRISTOSKOV, L.
Homogeneous magnitude system of the Eurasian continent: S and L waves
[PB84-101161] 08 p1188 N84-17744
CHRISTY, J. C.
Balloon test project: Cosmic Ray Antimatter Calorimeter (CRAC)
[NASA-TM-77461] 23 p3750 N84-33772
CHU, B. T.
Simultaneous multipoint measurements of density gradients and temperature in a flame
[DE84-006832] 12 p1794 N84-21697
CHU, C. K.
Intrinsic adaptive mesh techniques
[NASA-CR-175375] 08 p1217 N84-17941
Investigation of three dimensional mesh generation with precise controls
[AD-A142246] 19 p3089 N84-29614
CHU, C. L.
A mathematical model of the cardiovascular system under +Gz stress 16 p2537 N84-26290
CHU, H. P.
Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] 11 p1632 N84-20670
CHU, J. Q.
Acoustic streaming as a mechanism of the Ranque-Hilsch effect 03 p0319 N84-12088
CHU, K. M.
VLSI architectures for recognition of context-free languages 09 p1402 N84-19160
CHU, M. S.
Magnetic fluctuations in high-beta sub p Tokamak plasmas
[DE83-015872] 05 p0751 N84-14929
Reduced equations in three dimensional geometry
[DE84-009401] 20 p3282 N84-30841
The 3-D MHD stability of high-beta free-boundary Tokamak plasmas with finite edge-pressure-gradient and limiter stabilization
[DE84-009188] 20 p3303 N84-30976
CHU, R. C.
Material damage and structural instability analysis: Local and global stationary values of the strain energy density function 17 p2678 N84-27057
CHU, S. C.
A simple approach for determination of bursting pressure of a thick-walled cylinder
[AD-P002956] 14 p2199 N84-24196
CHU, S. G.
A study of tropical cyclone intensity from satellite imagery 24 p3956 N84-35048
CHU, S. I.
Many-body processes in atomic and molecular physics
[DE84-007338] 15 p2406 N84-25441
CHU, S. Y. F.
The microstructure theory for three dimensional plasma transport
[AD-A138285] 12 p1910 N84-22441
CHU, W. K.
Axial-channeling studies of strained layer superlattices
[DE83-013309] 01 p0154 N84-11010
Ion channeling analysis of GaAs/sub x/P/sub 1-x/GaP strained-layer superlattices
[DE84-002536] 05 p0755 N84-14952
Resonance between channeled particle wavelengths and periodicity of strained-layer superlattices
[DE84-002173] 07 p1081 N84-17032
CHU, Y. Y.
Operator alertness/workload assessment using stochastic model-based analysis of myoelectric signals
[AD-A144535] 24 p3937 N84-34921
CHUA, D. L.
Related studies in long term lithium battery stability
23 p3736 N84-33676
CHUAH, C. K.
Factors influencing thermomechanical failure of face seals, 3
[AD-A138546] 13 p1997 N84-22961
CHUAN, S. L.
Profile inversion of a planar medium with a line source or a point source 23 p3776 N84-33938
CHUANG, C. L.
Transient waveform synthesis for radar target discrimination 05 p0664 N84-14366
CHUANG, H.
Electromagnetic wave theory and remote sensing
22 p3683 N84-33350
CHUANG, S. C.
Promotion effects on the synthesis of higher alcohols
[DE84-009916] 20 p3166 N84-30109
CHUANG, S. L.
Wave attenuation and mode dispersion in a waveguide coated with lossy dielectric material
[NASA-CR-173820] 20 p3172 N84-30145
Numerical methods for analyzing electromagnetic scattering
[NASA-CR-173916] 22 p3575 N84-32645
Electromagnetic wave theory and remote sensing
22 p3683 N84-33350
CHUANG, S. Y.
Adhesive bond and composite strength screening system developmental study
[FZM-7184] 20 p3161 N84-30073
CHUANG, T. J.
Spectroscopy of adsorbates by transient laser calorimetry
[AD-A144473] 24 p3880 N84-34584
CHUBB, D. L.
Thermionic-photovoltaic energy converter
[NASA-CASE-LEW-14077-1] 11 p1673 N84-20918
CHUDNOVSKIY, V. S.
Optimum time of day and night for measuring distances in turbulent atmosphere with optical range finders (case of high rise of laser beam above ground surfaces)
17 p2638 N84-26875
CHUDNOVSKY, A.
Crack propagation in polystyrene under fixed elongation
[AD-A134749] 08 p1138 N84-17399
Crack layer theory
[NASA-CR-174634] 13 p2001 N84-22980
On stress analysis of a crack-layer
[NASA-CR-174774] 24 p3912 N84-34774
CHUDNOVSKY, D. V.
Nonlinear partial differential equations and related problems of pade approximations
[AD-A135110] 08 p1218 N84-17948
Nonlinear partial differential equations and related problems of Pade approximations
[AD-A141519] 19 p3085 N84-29578
CHUDNOVSKY, F. A.
Metal-semiconductor phase transition and its application
[BLL-DRIC-T-7149-(3623.66)] 19 p3109 N84-29757
CHUDNOVSKY, G. V.
Nonlinear partial differential equations and related problems of pade approximaiions
[AD-A135110] 08 p1218 N84-17948
Nonlinear partial differential equations and related problems of Pade approximations
[AD-A141519] 19 p3085 N84-29578
CHUGUY, Y. V.
Industrial optodigital inspection system
24 p3942 N84-34955
CHUI, C. K.
Bivariate quadratic splines on crisscross triangulations
[AD-P002979] 14 p2202 N84-24215
CHUM, H. L.
Biomass electrochemistry
[DE84-000020] 07 p0971 N84-16293
CHUN, K. Y.
Crustal shear velocity modelling in Nevada: A study of broadband multi-mode surface waves
24 p3918 N84-34802
CHUN, R. C.
Numerical simulations of compliant material response to turbulent flow
[DE84-004365] 11 p1654 N84-20800
CHUNCHUZOV, Y. P.
Evaluations of coefficient of vertical exchange in lower thermosphere 18 p2864 N84-28185
CHUNG, H. H.
General 3rd Airborne antenna radiation pattern code users manual
[AD-A130359] 01 p0121 N84-10790
Analysis of airborne antenna pattern and mutual coupling and their effects on adaptive array performance
05 p0672 N84-14418
CHUNG, K. H.
The construction of a Nd:YAG laser and observation of the output
[AD-A138055] 12 p1820 N84-21860
CHUNG, K. T.
Mechanical and physical properties of poly(vinylidene fluoride) at high pressures and temperatures
[AD-A137842] 11 p1637 N84-20705
CHUNG, M. J.
Initial acceleration for electromagnetic launchers: A feasibility study on chemical propellants
[MRL-TN-478] 11 p1639 N84-20712
CHUNG, P. C. K.
Environmentally-controlled crack growth rate of type 304 stainless steel in high temperature sulfate solutions
21 p3364 N84-31342
CHUNG, R. M.
Proceedings of the 12th Joint Panel Conference of the US-Japan Cooperative Program in Natural Resources: Wind and Seismic Effects
[PB84-167758] 15 p2318 N84-24911
CHUNG, T. C.
Charge storage in doped poly(thiophene)
[AD-A137085] 10 p1455 N84-19506
CHUNG, T. J.
Three-dimensional vorticity procedure interactions in combustion instability analysis of solid propellant rocket motors 13 p1945 N84-22647
CHUNG, T. S.
Liquid crystal polyester-carbon fiber composites
[NASA-CR-172323] 17 p2618 N84-26754
CHUNG, W.
A mathematical simulation model of the CH-47B helicopter, volume 2
[NASA-TM-84351] 22 p3535 N84-32380
CHUNG, Y. J.
Adaptive control strategies for computer-controlled manipulators 13 p2023 N84-23114
CHUNXIAO, C.
Effect of transformed beta morphology and other structural features on mechanical properties in Ti-6Al-4V
[AD-A136028] 09 p1283 N84-18382
CHUPIS, V. N.
Impact ionization in semiconductors by microwave field in the presence of an arbitrarily oriented constant magnetic field 18 p2825 N84-27932
CHUPP, W.
A high current heavy ion beam transport experiment at LBL
[DE84-009225] 20 p3294 N84-30912
CHURCH, R. H.
Ground penetrating radar: A review of its application in the mining industry, information circular 1984
[PB84-178292] 20 p3178 N84-30172
CHURCH, V.
An approach to software cost estimation
[NASA-TM-85607] 13 p2026 N84-23136

Managers handbook for software development
[NASA-TM-85604] 13 p2028 N84-23150

CHURCHILL, A. V.
Decision recommendation board (DRB) report. Transition of shale JP-4 to the operational validation phase
[AD-A144504] 24 p3890 N84-34633

CHURCHILL, P. N.
First results of GPS time transfer to Australia 10 p1475 N84-19635

CHURNEY, K. L.
Assessing the credibility of the calorific value of municipal solid waste
[PB84-175470] 16 p2474 N84-25861

CHUVALA, J. T.
Predictive thermal-vacuum modeling by variable coefficients 24 p3864 N84-34493

CHUVATIN, V. N.
Abrasive properties of ferroalloys
[BLL-M-35416-(5828.4)] 07 p0973 N84-16306

CHUVYCHIN, V. N.
Use of microprocessor techniques in frequency measuring organs 17 p2638 N84-26876

CHYLEK, P.
Modification of the surface temperature by an artificial cirrus cloud
[DE84-011367] 20 p3247 N84-30611

CHYNOWETH, D. P.
Biothermal conversion of biomass and wastes to methane
[DE84-006052] 11 p1675 N84-20931

CHYRCZAKOWSKI, S.
Studies on ion beams produced in a plasma focus, part 2 10 p1582 N84-20364

CIARKOWSKI, A.
Algorithmization and programming of operator activities for parametric synthesis of speech using the CT-1 system controlled by the MERA 303 minicomputer
[ISSN-0208-5658] 23 p3729 N84-33634

CICERO, J. A.
Aircraft simulator: Multiple-cockpit combat mission trainer network
[AD-A137182] 10 p1432 N84-19363

CICHOWSKI, R.
Testing of the box transformer 10/04.4 kV in the network of the electricity supply company
[BMFT-FB-T-83-165] 07 p1000 N84-16483

CICHRA, D. A.
Synthesis of energetic materials
[AD-A130974] 02 p0200 N84-11299

CICIORA, J. A.
The historical development and basis of human factors guidelines for automated systems in aeronautical operations
[NASA-CR-166560] 10 p1552 N84-20174

CICONE, R. C.
Understanding and utilization of Thematic Mapper and other remotely sensed data for vegetation monitoring
[E84-10150] 16 p2508 N84-26098
Thematic Mapper spectral dimensionality and data structure 20 p3209 N84-30387

CIEKURS, P. V.
Prediction of hydraulic pump failures through wear debris analysis
[AD-A131386] 02 p0229 N84-11503

CIESLAK, W. R.
Pit initiation resistance of ferritic stainless steels in chloride environments from 800 to 2600C
[DE84-000355] 06 p0807 N84-15258

CIHAL, V.
Chromium-magnesium stainless steels, resistant to stress corrosion cracking in magnesium and calcium chloride solutions
[BLL-RISLEY-TRANS-4571-(9091.9)] 22 p3550 N84-32477

CIHLAR, J.
CCRS proposal for evaluating LANDSAT-D MSS and TM data
[E84-10026] 02 p0238 N84-11560
CCRS proposal for evaluating LANDSAT-4 MSS and TM data
[E84-10096] 10 p1522 N84-19986
Evaluating LANDSAT-4 MSS and TM data
[E84-10157] 17 p2709 N84-27249
On the SAR response of agricultural targets in a northern prairie environment 23 p3770 N84-33896

CILLI, L.
Design of receiver transmitters for use in multiple access networks 10 p1478 N84-19656

CIMBALA, J. M.
Large structure in the far wakes of two-dimensional bluff bodies
[AD-A143642] 23 p3747 N84-33751

CIMINO, J. B.
Remote sensing with spaceborne synthetic aperture imaging radars: A review 06 p0867 N84-15648

CINDERELLA, A.
Dynamical properties of disordered systems
[AD-A141597] 19 p3085 N84-29580

CINLAR, E.
Markov processes applied to control, replacement, and signal analysis
[AD-A136508] 09 p1382 N84-19023
Markov processes applied to control, replacement and signal analysis
[AD-A144225] 24 p3953 N84-35034

CIOLKO, A. T.
Evaluation of innovative concepts relating to prestressed concrete pavements, volume 5
[PB83-222349] 01 p0059 N84-10386

CIPRI, F.
Correction between nondestructive inspection results and performance of graphite/epoxy structural parts 01 p0034 N84-10212

CIRAOLO, L.
Laser remote sensing at IROE 24 p3907 N84-34747

CIRCELLI, B. R.
Numerical study of heat transfer in turbulent shear flow
[DE84-005106] 11 p1655 N84-20802

CIRILLO, T.
An interactive procedure for the analysis of linear elements detected in LANDSAT pictures: An application to northern Mozambique 23 p3770 N84-33900

CIRLIN, E. H.
Lunar sample analysis
[NASA-CR-171772] 11 p1758 N84-21476

CISTERNAS, A.
Tectonic deformation of the Andes and the configuration of the subducted slab in central Peru: Results from a micro-seismic experiment
[NASA-CR-175445] 11 p1681 N84-20972

CISZEK, T. F.
Orientation and morphology effects in rapid silicon sheet solidification 18 p2937 N84-28627

CIUNDZIEWICKI, T.
A program for developing automated scientific-information processing in maritime economy
[AD-A135518] 08 p1240 N84-18107

CIVINSKAS, K. C.
Application of a quasi-3D inviscid flow and boundary layer analysis to the hub-shroud contouring of a radial turbine
[NASA-TM-83669] 16 p2439 N84-25647

CLAAR, T. D.
High-temperature molten salt thermal energy storage systems for solar applications
[NASA-CR-167916] 06 p0873 N84-15679

CLAESSON, T.
Future sea mapping technique: Travel report. Activities in sea mapping technique, laser technique and acoustics at some institutes in Northern Europe
[FOA-C-30346-E1] 10 p1527 N84-20002
Design and calibration of a CW coherent laser radar
[FOA-C-30345-E1] 15 p2320 N84-24930

CLAEYS, J. M.
Ultrasonic reflection from solid halfspaces and from solid plates
[AD-A129886] 01 p0140 N84-10916

CLAIRE, R. W.
Land use and land cover digital data
[GS-CIRC-895-E] 10 p1525 N84-19987

CLANCEY, W. J.
GUIDON: A computer-aided instructional program
[AD-A139999] 15 p2383 N84-25293
The advantages of abstract control knowledge in expert system design
[AD-A139978] 15 p2396 N84-25370
Strategic explanations for a diagnostic consultation system
[AD-A140014] 15 p2396 N84-25371

CLANCY, P. F.
Acoustic mixing of an immiscible alloy (Pb-Zn) in microgravity 17 p2613 N84-26728

CLANCY, R. T. S.
Carbon monoxide in the atmospheres of the terrestrial planets 05 p0764 N84-15011

CLANCY, T. A.
Magnesia refractories produced from chemically modified periclase grains and Mg(OH)2 slurries
[PB84-178979] 20 p3165 N84-30099

CLAPP, R. E.
Investigation of the numerical method of moments for digital computer determination of Green's functions
[AD-A138374] 12 p1894 N84-22339
Moebius r-2R lens
[AD-P003511] 21 p3385 N84-31479

CLARK, B. A.
MAPPER user's manual
[DE84-003478] 11 p1708 N84-21133

CLARK, B. P.
Spaceborne sensors (1983-2000 AD): A forecast of technology
[NASA-TM-86083] 17 p2616 N84-26743

CLARK, B. V.
A microwave systems approach to measuring root zone soil moisture
[E84-10114] 13 p2005 N84-23007

CLARK, C. A.
Communications network design and costing model technical manual
[NASA-CR-168236] 05 p0666 N84-14376
Communications network design and costing model programmers manual
[NASA-CR-168237] 05 p0666 N84-14377
Communications network design and costing model users manual
[NASA-CR-168238] 05 p0666 N84-14378

CLARK, C. F.
Enthalpy - improved dielectric insulation for superconducting wires
[AD-A131857] 03 p0356 N84-12316

CLARK, C. T.
Data envelopment analysis and extensions for decision support and management planning
[AD-A139430] 14 p2246 N84-24489

CLARK, D. E.
Development of low cost filler materials for welding high strength steels
[AD-A141724] 19 p2994 N84-28973

CLARK, D. M.
Proceedings of Aeromagnetic Data Workshop
[PB84-127125] 10 p1538 N84-20077

CLARK, D. P.
Acoustic and photoelectric burnout detection of T-burner grains 13 p1946 N84-22650

CLARK, D. R.
Characterizations of preheated and non-preheated HY-80 steel weldments by transmission electron microscopy
[AD-A136966] 10 p1460 N84-19537

CLARK, G.
Energy and peak power saved by passively cooled residences 16 p2513 N84-26130

CLARK, G. A.
Results from an experimental railgun system: ERGS-1A
[MRL-R-875] 05 p0743 N84-14879
Experimental electromagnetic launchers at MRL
[MRL-R-894] 08 p1150 N84-17482
Performance results of a small-calibre electromagnetic launcher
[MRL-R-917] 16 p2483 N84-25924

CLARK, G. B.
Annual data and verification tabulation Atlantic tropical cyclones, 1983
[PB84-161330] 14 p2181 N84-24067

CLARK, G. F.
Effects of multiple cylinders on the formation of Von Karman vortex streets
[AD-A136930] 10 p1492 N84-19758

CLARK, G. L.
Zero-dimensional model of compressible gas flow in networks of pressure vessels: Program TRIC
[DE83-017121] 03 p0373 N84-12431

CLARK, H. J.
Flying training R&D (Research and Development) at the Air Force Human Resources Laboratory
[AD-A130250] 01 p0116 N84-10752

CLARK, I. O.
Characterization of the general purpose research furnace for low-G directional solidification experiments
[NASA-TM-85718] 04 p0489 N84-13211
Effect of space exposure on pyroelectric infrared detectors (A0135) 15 p2278 N84-24679

CLARK, J. C.
Time-resolved beam-profile measurements on the Experimental Test Accelerator (ETA)
[DE84-002453] 07 p1072 N84-16969
Observed current enhancement with propagation of the ETA electron beam in air
[DE84-010558] 20 p3293 N84-30909
Managing aircraft/simulator concurrency
[AD-P003463] 21 p3511 N84-32240

CLARK, J. H.
Propagating plane harmonic waves through finite length plates of variable thickness using finite element techniques 06 p0860 N84-15601

CLARK, J. H. E.
The application of satellite data to study the effects of latent heat release on cyclones 24 p3925 N84-34841
The use of satellite data in understanding and predicting convective and large-scale dynamical processes 24 p3925 N84-34842

CLARK, J. S.
On solar thermal electric power capacity sizing
18 p2872 N84-28236
CLARK, K.
Excess science accommodation capabilities and excess performance capabilities assessment for Mars Geoscience and Climatology Orbiter: Extended study
[NASA-CR-173765] 19 p2978 N84-28882
CLARK, K. G.
Cleaning compound efficiency; test method for aircraft surface cleaners
[AD-A138515] 12 p1764 N84-21504
CLARK, K. H.
Apparatus for adapting an end effector device remotely controlled manipulator arm
[NASA-CASE-MFS-25949-1] 02 p0229 N84-11501
Electrical self-aligning connector
[NASA-CASE-MFS-25211-2] 05 p0673 N84-14423
Clamp-mount device
[NASA-CASE-MFS-25510-1] 07 p1011 N84-16560
CLARK, L. G.
Utility of the cortical evoked response as a measure of photographic image quality
[AD-A131679] 03 p0377 N84-12455
Long Duration Exposure Facility (LDEF). Mission 1 Experiments
[NASA-SP-473] 15 p2270 N84-24632
CLARK, M.
Simultaneous electron capture and excitation in ion-atom collisions
[DE83-005799] 06 p0910 N84-15907
CLARK, M. C.
A z-pinch photo-pumped pulsed atomic iodine laser
[AD-A140033] 15 p2410 N84-25468
Plasma conductivity experiments on pulsed high-voltage discharges by two coil RF-probe
[AD-A144595] 24 p3965 N84-35110
CLARK, P. E.
Correction and geological analysis of lunar 3.8 CM radar data 13 p2089 N84-23531
Mapping and geological analysis of Mercury radar data 13 p2089 N84-23532
Mercury: Topographic and geologic data from Earth-based radar observations
13 p2089 N84-23533
CLARK, R. D.
Kinetic and spectroscopic studies of cytochrome b-563 in isolated cytochrome b/f complex and in thylakoid membranes
[DE83-017982] 04 p0571 N84-13760
CLARK, R. J.
Electronic packaging and interconnect technology working group report IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A137336] 10 p1504 N84-19833
CLARK, R. K.
Response of Inconel 617 superalloy to combined ground-based and STS reentry exposure
[NASA-TM-86293] 22 p3554 N84-32505
Residual mechanical properties of Ti-6Al-4V after simulated Space Shuttle reentry
[NASA-TM-86294] 22 p3554 N84-32506
Effect of alloy chemistry and exposure conditions on the oxidation of titanium
[NASA-TM-86295] 22 p3555 N84-32507
CLARK, R. L.
Mach 0.6 to 3.0 flows over rectangular cavities
[AD-A134579] 06 p0782 N84-15121
Mach 0.6 to 3.0 flows over rectangular cavities
[AD-A134579] 07 p0948 N84-16153
CLARK, R. N.
Evaluation of pumps for wind-driven irrigation
[DE83-013438] 01 p0090 N84-10587
CLARK, R. W.
A users guide to KLYSMA 2: A multifluid transport code
[AD-A143784] 23 p3828 N84-34278
CLARK, S. K.
Linear and nonlinear viscoelastic constitutive relations of cord reinforced elastomers
[DE84-002371] 05 p0660 N84-14338
Heat generation in aircraft tires under braked rolling conditions
[NASA-CR-3768] 06 p0858 N84-15587
CLARK, S. R.
Eastern Space and Missile Center (ESMC) capability
[AD-A133788] 05 p0642 N84-14226
CLARK, W.
Lithium cell reactions
[AD-A142976] 21 p3391 N84-31522
CLARK, W. A. T.
The influence of nitrogen on the sensitization, corrosion, mechanical and microstructural properties of stainless steels
[DE83-017203] 20 p3157 N84-30050
CLARK, W. L.
Estimating unbiased horizontal velocity components from ST/MST radar measurements: A case study
17 p2687 N84-27110
CLARKE, B.
In-service NDI of composite structures: An assessment of current requirements and capabilities
01 p0035 N84-10220
CLARKE, D. W.
Introduction to self-tuning controllers
07 p1057 N84-16846
Implementation of self-tuning controllers
07 p1057 N84-16847
CLARKE, F. B., III
Overall fire safer 11 p1727 N84-21264
CLARKE, F. J.
Second order theory of unsteady burned-anchored flames with arbitrary Lewis number
[CA-8313] 06 p0801 N84-15219
CLARKE, H.
Preliminary studies of the total cation exchange capacity of sediments from two North Atlantic study sites
[IOS-158] 19 p3062 N84-29430
CLARKE, J.
A long range propagation experiment to investigate the incidence of anomalous propagation in the north Atlantic
06 p0871 N84-15669
CLARKE, J. F.
A review of theories currently being used to model steady plane flames on flame-holders
[CA-8316] 06 p0800 N84-15218
Quasi-steady flames on an evolving atmosphere
[CAR-8406] 21 p3358 N84-31302
Urban scale variations of turbulence parameters and fluxes
[PB84-209113] 22 p3626 N84-32980
CLARKE, J. R.
Efficiency of high-frequency ventilation as determined by nitrogen washouts: A model study
[AD-A131331] 02 p0265 N84-11745
CLARKE, M. M.
Human factors in remote control engineering development activities
[DE84-003201] 12 p1868 N84-22176
CLARKE, P. B.
Friction and wear studies of liquid metal wetted, metallic fiber brushes
[AD-A143473] 22 p3604 N84-32831
CLARKE, T. C.
The mechanism of Ziegler-Natta polymerization of acetylene: A nutation NMR study
[AD-A137089] 10 p1468 N84-19588
CLARKSON, M. H.
Subsonic high-angle-of-attack aerodynamic characteristics of a cone and cylinder with triangular cross sections and a cone with a square cross section
[NASA-TM-84377] 01 p0003 N84-10019
A flow visualization investigation on selected shapes with emphasis on flow separation
[AD-A143804] 23 p3747 N84-33753
CLARY, G. R.
Development and flight test of an X-band precision approach concept for remote-area rotorcraft operations
[NASA-TM-84398] 01 p0007 N84-10041
Development and flight test of a helicopter compact, portable, precision landing system concept
[NASA-TM-85951] 15 p2259 N84-24566
CLASPY, P. C.
Applications of photoacoustic techniques to the study of jet fuel residue
[NASA-CR-173322] 09 p1290 N84-18420
CLASSEN, H.
Chemical utilization of the olefinic byproducts in pyrolysis naphtha by carbonylation and alkylation reaction
[BMFT-FB-T-84-064] 19 p2985 N84-28914
CLAUDE, D.
Data exchange and transfer structures
[SNIAS-832-111-103] 15 p2391 N84-25347
CLAUDINON, B.
Detailed system studies on rendezvous and docking. Part 1: Executive summary
[ESA-CR(P)-1894-PT-1] 23 p3697 N84-33428
CLAUS, J.
Colliding-beam-accelerator lattice
[DE83-017875] 04 p0614 N84-14050
CLAUS, M.
Correlation calculation in stereoscopic image pairs for the automatic acquisition of digital land models, orthopictures and height line planes
[SER-C283] 16 p2505 N84-26079
CLAUS, R. O.
Analysis and acoustooptical measurements of bulk and surface acoustic wave fields
[NASA-CR-173271] 07 p1069 N84-16945
Ultrasonic transducer with Gaussian radial pressure distribution
[NASA-CASE-LAR-12967-1] 13 p1993 N84-22932
CLAUS, R. W.
Flame radiation and liner heat transfer in a tubular-can combustor
[NASA-TM-83538] 04 p0485 N84-13188
Numerical modeling of turbulent flow
11 p1610 N84-20538
CLAUSEN, L. C.
Organic azides as jet fuel additives: Synthesis of azides and micro-explosion characteristics of droplets
20 p3144 N84-29963
CLAUSER, J. F.
TMX-U experimental results
[DE83-016790] 03 p0449 N84-12955
CLAUSS, H.
Technology for LSI circuits combining integrated injection logic and bipolar transistors
[BMFT-FB-T-83-210] 10 p1489 N84-19733
CLAUSSEN, U.
Dyes for displays
[BMFT-FB-T-84-100] 16 p2557 N84-26401
CLAVEL, J.
The broad absorption line region in NGC 4151
24 p3971 N84-35146
The Seyfert 1 galaxy NGC 4593 (3). Very rapid variations of its far UV spectrum and their implications
24 p3971 N84-35147
CLAXTON, L.
Bioassay of particulate organic matter from ambient air
[PB83-239731] 02 p0267 N84-11754
CLAY, C. W.
An analysis of prop-fan/airframe aerodynamic integration
[NASA-CR-152186] 10 p1419 N84-19281
CLAY, D. R.
Ion mass spectrometer
[NASA-CASE-NPO-15423-1] 18 p2838 N84-28016
CLAYPOOL, G. E.
Petroleum source rock richness, type and maturity for four rock units on the Alaskan North Slope: Are they sources for the two oil types? 14 p2164 N84-23961
CLAYTON, A. M.
The stress analysis of a rotating cylinder experiment to determine crack growth in thick section steel
[DE84-701733] 24 p3913 N84-34778
CLAYTON, C. R.
Ion implantation metallurgy: A study of the composition, structure and corrosion behavior of surface alloys formed by ion implantation and ion beam mixing
[AD-A140713] 17 p2624 N84-26792
Thermally-sprayed active metal coatings for corrosion protection in marine environments
[AD-A140783] 17 p2624 N84-26795
CLAYTON, J. C.
Transient and diffusion analysis of HgCdTe
[NASA-CR-162049] 20 p3152 N84-30015
CLAYTON, K. I.
Aircraft transparency testing methodology and evaluation criteria. Part 2: Methodology development for improved durability
[AD-A131928] 03 p0331 N84-12157
Aircraft transparency testing methodology and evaluation criteria. Part 1: Test methods and information analysis
[AD-A131927] 03 p0331 N84-12158
Development of an impact resistant test method for polycarbonate
[AD-A139082] 13 p2002 N84-22988
Alternate T-38 transparency development
[AD-P003219] 17 p2595 N84-26632
CLAYTON, R. W.
Lower mantle heterogeneity, dynamic topography and the geoid
[NASA-CR-173621] 16 p2521 N84-26184
CLAYTOR, T. M.
Development of ultrasonic methods for the nondestructive inspection of concrete
[DE83-017923] 04 p0595 N84-13929
CLAYTOR, T. N.
Acoustic leak detection and ultrasonic crack detection
[DE84-004037] 09 p1328 N84-18670
Void-particulate director
[DE84-011300] 20 p3190 N84-30262
CLEAR, K. C.
Time-to-corrosion of reinforcing steel in concrete slabs. Volume 5: Calcium nitrite admixture or epoxy-coated reinforcing bars as corrosion protection systems
[PB84-195239] 22 p3565 N84-32578
CLEARY, J. W.
An experimental documentation of trailing-edge flows at high Reynolds number
[NASA-TM-84375] 01 p0076 N84-10498

CLEAVES, M. A.
Preparation and properties of polyurethane and polyurethaneurea elastomers from methylene bis(4-cyclohexylisocyanate)
[AD-A137645] 11 p1637 N84-20704

CLEGG, R. E. S.
A model of the planetary nebula NGC 3918 based on IUE observations 24 p3978 N84-35195

CLEGG, T. B.
System for producing high-resolution polarized and unpolarized beams with a tandem accelerator
[DE84-004054] 09 p1388 N84-19063

CLELAND, D. I.
Project management: Evolution and influence
[AD-P002824] 13 p2061 N84-23369

CLELLAND, J. P.
Aircraft loading adapter for use with ordnance lift vehicle
[AD-D011147] 23 p3696 N84-33421

CLEMENA, G. G.
Microwave reflection measurements of the dielectric properties of concrete
[PB84-173624] 17 p2654 N84-26976

CLEMENS, B. M.
Amorphous zirconium-nickel films formed by solid state reactions
[DE84-003570] 07 p0976 N84-16326

CLEMENT, G.
Microgravity as an additional tool for research in human physiology with emphasis on sensorimotor systems
[ESA-BR-15] 09 p1362 N84-18900

CLEMENT, R.
Multifrequency observations of three active galaxies 24 p3972 N84-35151

CLEMENTS, J. S.
Chemical conversion surfaces for solar-energy applications
[DE84-000107] 04 p0558 N84-13681

CLEMENTS, P. A.
Intercontinental time and frequency transfer using a global positioning system timing receiver 04 p0519 N84-13411
First results of GPS time transfer to Australia 10 p1475 N84-19635

CLEMENTS, P. C.
Interface specifications for the SCR (A-7E) application data types module
[AD-A132717] 05 p0729 N84-14785
A standard organization for specifying abstract interfaces
[AD-A143787] 23 p3815 N84-34194

CLEMENTS, W. E.
Some physical concepts in complex terrain meteorology derived from the Department of Energy's ASCOT program
[DE84-010059] 20 p3247 N84-30607

CLEMESHA, B. R.
Lidar studies of the alkali metals
[INPE-2892-PRE/411] 02 p0193 N84-11252
Tidal oscillations in the atmospheric sodium layer
[INPE-3008-PRE/454] 12 p1846 N84-22033
Vertical and horizontal phase propagation in the mesopause region observed by the OI5577 angstrom, O/sub 2 atmospheric band, NaD and OH(8,3) band nightglow emissions
[INPE-3022-PRE/460] 12 p1846 N84-22035

CLEMM, G. M.
FSCAN-83 report and user's manual
[AD-A132740] 05 p0729 N84-14788
TREGRM-83 report and user's manual
[AD-A132874] 05 p0729 N84-14789

CLENDENIN, J. E.
Emittance calculations for the Stanford linear collider injector
[DE83-011851] 02 p0290 N84-11904
Making electron beams for SLC linac
[DE84-012072] 20 p3293 N84-30907
Acceleration of high charge density electron beams in the SLAC linac
[DE84-012415] 21 p3497 N84-32161

CLERC, R.
Coupling of electromagnetic pulses created by a nuclear explosion on the ground with overhead power cables
[SNIAS-841-422-107] 21 p3388 N84-31505
Calculation of currents induced in a network of overhead power lines by an electromagnetic impulse
[SNIAS-841-422-109] 21 p3388 N84-31507

CLEVELAND, S.
The use of cyclone modeling in the erection of precast segmental aerial construction
[AD-A132885] 05 p0663 N84-14358

CLEVENSON, S. A.
Ride quality meter
[NASA-CASE-LAR-12882-1] 03 p0375 N84-12445
Evaluation of ride quality prediction methods for helicopter interior noise and vibration environments
[NASA-TP-2261] 10 p1549 N84-20155
Effect of external pressure environment on the internal noise level due to a source inside a cylindrical tank
[NASA-TM-85814] 21 p3346 N84-31226

CLEVERLY, D. S.
Polymeric microelectronics
[AD-A130523] 01 p0049 N84-10317

CLIFF, E. M.
Climb-dash real-time calculations
[NASA-CR-173184] 07 p0943 N84-16115
On-board near-optimal climb-dash energy management 07 p0943 N84-16116
Optimal symmetric flight with an intermediate vehicle model 07 p0943 N84-16117
Energy state revisited 07 p0943 N84-16118
Optimal symmetric flight with an intermediate vehicle model
[NASA-CR-173181] 07 p0951 N84-16167

CLIFF, W. C.
Doppler lidar results from the San Gorgonio Pass experiments 24 p3928 N84-34866

CLIFFORD, J. E.
Analysis of lead-acid battery accelerated testing data
[DE83-017403] 04 p0528 N84-13473
Study of bipolar batteries
[DE84-013193] 21 p3394 N84-31540
Analysis of lead-acid battery deep-cycle accelerated testing data
[DE84-013192] 22 p3589 N84-32736

CLIFFORD, L. D.
A study of satellite radar altimeter operation over ice-covered surfaces
[ESA-CR(P)-1810] 08 p1179 N84-17683

CLIFFORD, R. P.
Tape heating method for space simulation testing 24 p3864 N84-34488

CLIFFORD, S. M.
Ice-covered volcanic water flows on Ganymede 13 p2073 N84-23432

CLIFFORD, T.
Design fabrication and testing of the BNL radio frequency quadrupole accelerator
[DE84-011915] 21 p3494 N84-32145

CLIFTON, P. M.
Numerical modeling of parametric uncertainties in flow through porous media: Development and initial testing of PORSTAT
[DE84-006682] 11 p1654 N84-20798

CLIFTON, R. J.
Anslysis of shear strain localization in thermal visco-plastic materials
[AD-A138186] 12 p1798 N84-21727
A plate impact experiment for studying crack initiation at loading rates K(I) approximately 10(8) MPa m/s
[AD-P003103] 16 p2466 N84-25808

CLINARD, F. W., JR.
Structural performance of ceramics in a high-fluence fusion environment
[DE84-001311] 04 p0508 N84-13329
Ceramics for fusion devices
[DE84-011409] 20 p3162 N84-30082

CLINE, C. F.
Fabrication of metallic glass structures
[DE84-014499] 23 p3725 N84-33606

CLINE, D.
Future search for grand unified theory magnetic monopoles
[DE83-009451] 06 p0926 N84-16015

CLINE, P. A.
Airport noise control strategies
[AD-A133137] 06 p0908 N84-15900
A combinatorial geometry computer description of the M48A1 Chaparral missile system
[AD-A137262] 11 p1622 N84-20615

CLINE, S.
Blade loss transient dynamics analysis with flexible bladed disk
[NASA-CR-168176] 04 p0486 N84-13193

CLINE, T. L.
Development of a segmented n-type germanium detector, and its application to astronomical gamma-ray spectroscopy
[NASA-TM-85435] 03 p0461 N84-13039
Gamma ray bursts: A 1983 overview 09 p1406 N84-19188
Frequency of fast, narrow gamma-ray bursts and burst classification 09 p1407 N84-19190
The rapidly moving telescope: An instrument for the precise study of optical transients 09 p1407 N84-19193
Two probable optical flashes from gamma-ray bursters
[NASA-TM-86126] 21 p3526 N84-32337
Three precise gamma-ray burst source locations
[NASA-TM-86132] 22 p3680 N84-33332

CLINGENPEEL, J. M.
Emissions and efficiency of agricultural diesels using low-proof ethanol as supplement fuel
[DE84-003931] 09 p1325 N84-18659

CLINTON, R. G., JR.
Mechanical property characterization of F-100/934 graphite-epoxy composite material 06 p0928 N84-16031

CLIPPER, R. W.
Performance consistency on a perceptual-motor task as a correlate of achievement motivation
[AD-A135933] 10 p1552 N84-20170

CLIVER, E. W.
A catalog of solar white-light flares, including their statistical properties and associated emissions, 1859 - 1982
[AD-A138645] 14 p2251 N84-24521

CLONINGER, P. A.
Marine Air Traffic Control And Landing System (MATCALS) investigation
[AD-A130309] 01 p0007 N84-10045

CLOSE, D. A.
Multi-isotopic gamma ray assay system for alpha contaminated waste
[DE83-015254] 02 p0292 N84-11917

CLOUDE, S. R.
Polarimetric principles and techniques
[AD-A139252] 12 p1805 N84-21766

CLOUGH, R. L.
Physical techniques for profiling heterogeneous polymer degradation
[DE84-013807] 22 p3560 N84-32547

CLOUGH, R. W.
Dynamic analysis of structures using Lanczos coordinates
[AD-A136387] 09 p1331 N84-18690

CLOUGH, S. A.
Air mass computer program for atmospheric transmittance/radiance calculation: FSCATM
[AD-A132108] 04 p0563 N84-13712
Atmospheric transmittance/radiance: Computer code LOWTRAN 6
[AD-A137786] 11 p1707 N84-21126

CLOUTIER, J. R.
Multivariate, minimum-curvature splines for randomly spaced data
[AD-A132319] 04 p0590 N84-13899

CLOUTMAN, L. D.
Numerical simulation of the countercurrent flow in a gas centrifuge
[DE83-013323] 02 p0218 N84-11432
Numerical experiments with CONCHAS-SPRAY: Compression stroke of an external chamber diesel engine
[DE84-002321] 06 p0853 N84-15561

CLOW, G. D.
The structure of the Ionian lithosphere 13 p2073 N84-23435
Ode to gravity: Depth/diameter for fresh craters on Mercury 13 p2079 N84-23470

CLOWER, C. A.
TMX-U experimental results
[DE83-016790] 03 p0449 N84-12955

CLOWER, C. A., JR.
Gas box control system for tandem mirror experiment upgrade
[DE84-003245] 07 p1078 N84-17008

CLOYD, R. A.
Self-indexing latch system
[NASA-CASE-MFS-25956-1] 11 p1664 N84-20860
Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-15429-1] 13 p1939 N84-22609

CLUBE, S. V. M.
Drift analysis: A forgotten technique 09 p1411 N84-19226

CMIRAL, J.
EC 1027 computer system 24 p3960 N84-35075

COACHMAN, L. K.
Winter currents on the eastern Bering Sea shelf
[PB83-248823] 04 p0570 N84-13753

COAD, J. P.
Coatings for fuel economy or materials substitution 23 p3704 N84-33477

COAKLEY, T. J.
A compressible Navier-Stokes code for turbulent flow modeling
[NASA-TM-85899] 12 p1815 N84-21833

COAN, B. A.
Extending binary Byzantine agreement to multivalued Byzantine agreement
[AD-A143424] 22 p3640 N84-33077

COATES, G. D.
Visual information transfer. 1: Assessment of specific information needs. 2: The effects of degraded motion feedback. 3: Parameters of appropriate instrument scanning behavior
[NASA-CR-173913] 22 p3633 N84-33020
COATS, D. W.
Natural phenomena hazards modeling project: Extreme wind-tornado hazard models for Department of Energy sites
[DE84-011157] 20 p3247 N84-30608
COBB, S., JR.
Polymeric web lens evaluation
[DE84-010108] 19 p3000 N84-29013
COBLIN, R. D.
Scattering of an electromagnetic plane wave from a perfectly electrically conducting half-plane in the proximity of planar media discontinuities
[AD-A138988] 13 p1983 N84-22876
COCHRAN, A. L.
The chemical evolution of the coma of comet P/Stephan-Oterma 03 p0464 N84-13055
COCHRAN, H. S.
Laser diagnostic development and measurement and modeling of turbulent flowfields of jets and wakes. Part 2: Numerical predictions of isothermal flowfields in a ducted centerbody combustor
[AD-A134692] 08 p1159 N84-17543
COCHRAN, J. C.
Meteorological models for estimating phenology of corn
[E84-10160] 17 p2709 N84-27252
COCHRANE, E. H.
Flate-plate photovoltaic power systems handbook for Federal agencies
[NASA-CR-173901] 22 p3617 N84-32921
Stand-alone flat-plate photovoltaic power systems: System sizing and life-cycle costing methodology for Federal agencies
[NASA-CR-173903] 22 p3618 N84-32922
COCHRANE, J. C.
Recent results in the Los Alamos compact torus program
[DE83-014147] 03 p0446 N84-12930
COCHRUN, B. L.
Signal processing circuit development
[AD-A138648] 13 p1982 N84-22870
COCKERHAM, J. M.
Cost risk trade-offs in timing the production decision
[AD-P002753] 13 p2050 N84-23300
COCKEY, W. D.
Panel method for perturbations of transonic flows with finite shocks 16 p2442 N84-25669
COCKS, F. H.
Ultralight reactive metal foams produced as structural shapes in space: System design
18 p2801 N84-27777
CODDET, C.
Trichite growth during oxidation of titanium and TA6V4 alloy by water vapor at high temperatures
[NASA-TM-76974] 06 p0805 N84-15248
CODY, W. J.
Models of maintenance resources interaction: Peacetime operations
[AD-A131379] 03 p0457 N84-13011
Laboratory studies of aircrew chemical protective ensemble: Effects on pilots' performance
11 p1697 N84-21066
COE, C. F.
Electronic scanning pressure measuring system and transducer package
[NASA-CASE-ARC-11361-1] 13 p1993 N84-22934
Advanced leading edge thermal-structure concept. Direct bond reusable surface insulation to a composite structure
[NASA-TM-85941] 14 p2113 N84-23665
COE, H. H.
Thermal analysis of a planetary transmission with spherical roller bearings operating after complete loss of oil
[NASA-TP-2367] 22 p3603 N84-32824
COE, M. J.
Multifrequency observations of three active galaxies
24 p3972 N84-35151
Periodicity searches with IUE: Studies of pulsating galactic X-ray sources 24 p3981 N84-35218
COE, R. J.
Broadband cavity-backed slot using printed circuit technology
[AD-P003508] 21 p3384 N84-31476
COEN, G.
Automated detection of internal and surface defects in moving strip
[BMFT-FB-T-84-079] 19 p3033 N84-29239
COENSGEN, F. H.
TMX-U experimental results
[DE83-016790] 03 p0449 N84-12955
COESTLER, F.
Relativistic effects in the binding energies of few-body nuclei
[DE83-014711] 02 p0291 N84-11907
COFER, J. W., JR.
A 360-degree scanning antenna with cylindrical array of slotted waveguides
[AD-D011189] 24 p3893 N84-34653
COFFEE, T. P.
Transport algorithms for methane flames
[AD-A133213] 06 p0801 N84-15221
Kinetic mechanisms for premixed, laminar, steady state methane/air flames
[AD-A137263] 11 p1629 N84-20658
COFFER, J. G.
Saturation processes in doppler-broadened HF vibrational transitions
[AD-A134282] 07 p1009 N84-16546
Temporal measurement of spectrally resolved output of multiline HF lasers
[AD-A137983] 12 p1819 N84-21859
COFFEY, C. S.
Microstructural origins of hot spots in RDX explosive and several reference inert materials
[AD-A132056] 03 p0357 N84-12325
COFFEY, E. L.
General Electromagnetic Model for the Analysis of Complex Systems (GEMACS) user manual (version 3), volume 1
[AD-A137461] 10 p1480 N84-19669
General Electromagnetic Model for the Analysis of Complex Systems (GEMACS) engineering manual (version 3), volume 2
[AD-A137462] 10 p1480 N84-19670
General Electromagnetic Model for the Analysis of Complex Systems (GEMACS) engineering manual (version 3), volume 3
[AD-A137463] 10 p1480 N84-19671
General Electromagnetic Model for the Analysis of Complex Systems (GEMACS) computer code documentation (version 3), volume 3, part 3
[AD-A137509] 10 p1480 N84-19673
General Electromagnetic Model for the Analysis of Complex Systems (GEMACS) computer code documentation (version 3), volume 3, part 4
[AD-A137510] 10 p1480 N84-19674
General Electromagnetic Model for the Analysis of Complex Systems (GEMACS) computer code documentation (version 3), volume 3, part 2
[AD-A137464] 11 p1644 N84-20750
COFFEY, H. E.
Solar-geophysical data number 465, May 1983. Part 2: (Comprehensive reports). Data for November 1982, October 1980 and miscellanea
[PB83-228551] 01 p0165 N84-11081
Solar-geophysical data, number 463, March 1983. Part 2: (Comprehensive reports). Data for September 1982, September 1980 and miscellanea. Explanation of data reports issued as number 462 (supplement) February 1983
[PB83-216317] 01 p0166 N84-11090
Solar-geophysical data number 464, April 1983. Part 1: Prompt report. Data for March 1983, February 1983 and late data. Explanation of data reports issued as number 462 (supplement) February 1983
[PB83-222489] 01 p0166 N84-11091
Solar-Geophysical Data number 465, May 1983. Part 1: Prompt reports. Data for April and March 1983, and late data
[PB83-228544] 02 p0305 N84-12005
Solar-geophysical data number 464, April 1983. Part 2: (Comprehensive reports). Data for October 1982 and Miscellanea
[PB83-222497] 02 p0308 N84-12022
Solar-geophysical data comprehensive reports, no. 466. Data for December 1982 and miscellanea. Explanation of data reports issued as number 462 (supplement), part 2
[PB83-253443] 05 p0785 N84-15018
Solar-geophysical data prompt report, no. 466. Data for May 1983, April 1983 and late data. Explanation of data reports issued as number 462 (supplement), part 1
[PB83-253435] 07 p1093 N84-17107
Solar-geophysical data center number 467, July 1983, part 1 (prompt reports). Data for June 1983, May 1983 and late data
[PB84-100486] 08 p1246 N84-18144
Solar-geophysical data number 467, July 1983, part 2 (comprehensive reports). Data for January 1983, November 1980 and miscellanea
[PB84-100494] 08 p1246 N84-18145
Solar-geophysical data number 468, August 1983. Part 1. (Prompt reports). Data for July 1983, June 1983 and late data
[PB84-116573] 09 p1417 N84-19270
Solar-geophysical data number 468, August 1983. Part 2. (Comprehensive reports). Data for February 1983 and miscellanea
[PB84-116581] 09 p1417 N84-19271
Solar-goephysical data number 469, September 1983. Part 1: (Prompt reports. Data for August 1983, July 1983 and late data)
[PB84-125913] 09 p1417 N84-19273
Solar-geophysical data number 469, September 1983, part 2 (comprehensive reports). Data for March 1983 and miscellanea
[PB84-125921] 09 p1417 N84-19274
Solar-geophysical data no. 470, October 1983. Part 2: (Comprehensive reports). Data for April 1983, December 1980, January 1981 and miscellanea
[PB84-140367] 11 p1760 N84-21483
Solar-geophysical data no. 470, October 1983. Part 1: (Prompt reports), data for September 1983, August 1983 and late data
[PB84-140359] 12 p1923 N84-22526
Solar-Geophysical Data number 471, November 1983. Part 2: Comprehensive reports. Data for May 1983 and miscellanea
[PB84-157007] 14 p2252 N84-24524
Solar-geophysical data number 473. Part 1: (Prompt reports) data for December 1983, November 1983 and late data
[PB84-180611] 20 p3320 N84-31073
Solar-geophysical data number 473. Part 2: (Comprehensive reports) data for July 1983, March 1981 and miscellanea
[PB84-180629] 20 p3320 N84-31074
Solar-geophysical data prompt reports, February 1984, number 474. Part 1: Data for January 1984, December 1983 and late data. Explanation of data reports issued as number 474 (supplement) February 1984
[PB84-188689] 20 p3320 N84-31076
Solar-geophysical data comprehensive reports, February 1984, number 474. Part 2: Data for August 1983, April 1981 and miscellanea. Explanation of data reports issued as number 474 (supplement) February 1984
[PB84-188671] 20 p3320 N84-31077
Solar-geophysical data explanation of reports, February 1984, number 474, supplement
[PB84-188697] 20 p3320 N84-31078
COFFEY, M.
The impact of a computerized network on the quality of work life in two college of advanced education libraries in New South Wales 19 p3115 N84-29792
COFFEY, S. L.
Satellite orbit theories based on the elimination of the parallax 19 p3118 N84-29619
COFFEY, T.
New high power coherent radiation sources
[AD-A137317] 10 p1479 N84-19662
COFFIELD, F. E.
Review of the tandem mirror experiment-upgrade (TMX-U) machine-parameter-instrumentation system
[DE84-003243] 07 p1078 N84-17009
Design and fabrication of circular and rectangular components for electron-cyclotron-resonant heating of tandem mirror experiment-upgrade
[DE84-003244] 07 p1078 N84-17010
Polarizing holographic reflector for Electron Cyclotron Resonant Heating (ECRH) on the Tandem Mirror Experiment Upgrade (TMX-U)
[DE84-003740] 08 p1162 N84-17568
Circular waveguide systems for electron-cyclotron-resonant heating of the tandem mirror experiment-upgrade
[DE84-003739] 08 p1233 N84-18062
Microwave interferometer using 94-GHz solid-state sources
[DE84-003741] 09 p1392 N84-19090
Microwave measurement test results of circular waveguide components for Electron Cyclotron Resonant Heating (ECRH) of the Tandem Mirror Experiment-Upgrade (TMX-U)
[DE84-009538] 19 p3108 N84-29746
Focusing twist reflector for electron-cyclotron resonance heating in the Tandem Mirror Experiment-upgrade
[DE84-012954] 22 p3578 N84-32663
COFFIN, L. F.
Environmental crack-growth-measurement techniques
[DE83-900734] 01 p0097 N84-10630
COFFINBERRY, G. A.
Analysis of fuel system technology for broad property fuels 14 p2108 N84-23644

COFFMAN, J. L.
Summary of earthquake intensity file: A computerized file of the effects of earthquakes in the United States
[PB84-101443] 08 p1189 N84-17745
Proceedings of Aeromagnetic Data Workshop
[PB84-127125] 10 p1538 N84-20077
COFORTH, J. H.
Design of a 20-MJ coaxial generator
[DE83-014152] 01 p0073 N84-10481
COGAN, J. L.
Transport and diffusion of buoyant material
[AD-A132613] 05 p0708 N84-14642
COGAN, K. J.
Teaching Ada (trademark) at the US Military Academy
[AD-P003418] 20 p3270 N84-30750
COHAN, H. A.
Questions that need to be answered
[AD-P002127] 16 p2525 N84-26213
COHEN-TENOUDJI, F.
Detection of closed internal fatigue cracks
[DE83-017686] 04 p0549 N84-13620
COHEN, A.
Effect of O2 on double-base propellant ignition
13 p1949 N84-22673
COHEN, A. M.
Local recognition of TIts' geometries of classical type
[MC-ZW-197/83] 07 p1065 N84-16910
Computation of some parameters of Lie geometries
[MC-ZW-198/83] 07 p1065 N84-16911
COHEN, A. S.
Development of a general model of the car drivers eye movement sequences and effects of subject and environmental variables
[AD-A144180] 24 p3936 N84-34915
COHEN, D.
Issues in satellite packet video communication
[AD-A135942] 09 p1303 N84-18515
A formal derivation of array implementations of FFT algorithms 09 p1400 N84-19144
The impact of VLSI on signal processing
09 p1402 N84-19159
Residual stresses in cross-ply composite tubes
[NASA-CR-173540] 16 p2460 N84-25768
Tools for specification validation and understanding
[AD-A141079] 19 p3074 N84-29506
Satellite communication of real-time packet video images
[AD-A143613] 23 p3730 N84-33643
COHEN, D. B.
Qualification and testing of modules
22 p3585 N84-32704
COHEN, E.
Some mathematical tools for a modeller's workbench
12 p1873 N84-22204
Analysis and programming for electromagnetic applications
[AD-A142313] 19 p3009 N84-29071
COHEN, E. E.
A designer's viewpoint: Requirements for reducing helicopter noise 19 p3099 N84-29684
COHEN, H. A.
Electron beam trajectory in a photometer field of view
[AD-A131949] 03 p0432 N84-12831
The concepts of critical temperature and energy cutoff of ambient electrons in high voltage charging of spacecraft 08 p1119 N84-17275
Sheath ionization model of beam emissions from large spacecrafts
[AD-A137181] 10 p1448 N84-19463
COHEN, H. D.
Task validation for studies on fragmented sleep and cognitive efficiency under stress
[AD-A130260] 01 p0116 N84-10753
COHEN, I. B.
Optimum filtering required for broadband detection of Gaussian processes
[AD-A133721] 05 p0735 N84-14823
COHEN, I. D.
Analysis of AFGL aircraft icing data
[AD-A137197] 10 p1539 N84-20087
Melting layer survey
[AD-A137911] 11 p1687 N84-21003
COHEN, J. B.
The measurement of elastic constants for the determination of stresses by X-rays
[AD-A132330] 04 p0590 N84-13897
Determining stresses in the presence of nonlinearities in interplanar spacing versus Sin squared Psi
[AD-A132365] 04 p0612 N84-14041
Effects of fatigue on the G.P. zones in Al-Zn alloys
[AD-A137518] 10 p1459 N84-19530
Size distribution for G.P. zones in dilute Al-Zn alloys
[AD-A137519] 10 p1459 N84-19531
Defect clusters and electrical properties in transition metal monoxides
[DE84-014851] 22 p3666 N84-33242
COHEN, J. D.
Analytical fuel property effects: Small combustors
14 p2108 N84-23639
COHEN, L. H.
Salton Sea Geothermal Field, California, as a near-field natural analog of a radioactive waste repository in salt
[DE84-003851] 09 p1346 N84-18794
COHEN, L. M.
Three-color pyrometer for burning particle temperature measurement 13 p1943 N84-22635
COHEN, M. L.
Identification and preliminary characterization of global water resource issues which may be affected by CO2-induced climate change
[DE84-011127] 20 p3246 N84-30604
COHEN, M. M.
Laboratory glassware rack for seismic safety
[NASA-CASE-ARC-11422-1] 11 p1657 N84-20808
Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-1] 13 p1939 N84-22612
Visual field perimeter and psychomotor tracking performance measuring apparatus
[AD-D011056] 22 p3596 N84-32775
COHEN, M. S.
Tactical decision aids which quantify judgment
[AD-P002889] 13 p1979 N84-22850
Research on cognitive collaboration between persons and computers
[AD-P002892] 13 p1980 N84-22853
COHEN, N. S.
Modeling effects of composition on the burn rates of nitrate ester-based energetic binders
13 p1951 N84-22685
Non-steady combustion of composite solid propellants
[AD-A139182] 14 p2132 N84-23776
COHEN, R. B.
Measurements of hypergolic fuels' and oxidants' permeation through commercial protective materials: Part 1. Inhibited red fuming nitric acid and unsymmetrical dimethylhydrazine
[AD-A134714] 08 p1139 N84-17411
COHEN, R. E.
Homogenizing properties of diblock polymers in blends of corresponding homopolymers
[AD-A132832] 05 p0659 N84-14334
Homopolymer-induced microphase separation of a homogeneous diblock copolymer
[AD-A133069] 05 p0660 N84-14337
Compatibilizing effect of a diblock copolymer of isotactic polystyrene and isotactic polypropylene in blends of the corresponding homopolymers
[AD-A143959] 23 p3724 N84-33601
COHEN, S. C.
Geodynamics Branch research report, 1982
[NASA-TM-85078] 02 p0233 N84-11527
Crustal deformation, the earthquake cycle, and models of viscoelastic flow in the asthenosphere
[NASA-TM-85117] 03 p0407 N84-12662
Research activities of the Geodynamics Branch
[NASA-TM-86123] 20 p3220 N84-30455
Crustal deformation and earthquakes
20 p3220 N84-30457
Geophysical interpretation of satellite laser ranging measurements of crustal movement in California
[NASA-TM-86148] 24 p3919 N84-34808
COHEN, S. M.
Research on aviation fuel instability
14 p2108 N84-23642
Research on aviation fuel instability
15 p2289 N84-24734
COHN, D. R.
High-field Tokamaks with DD-DT operation and tritium-breeding requirements
[DE83-013092] 02 p0296 N84-11939
COHN, S. E.
The effect of compact implicit differencing in a baroclinic primitive equations model 12 p1852 N84-22067
COHN, S. H.
Research opportunities in bone demineralization, phase 3 11 p1693 N84-21046
Research opportunities in bone demineralization, phase 3
[NASA-CR-3795] 17 p2743 N84-27417
COIA, M. F.
Installation restoration general environmental technology development. Task 3: Guidelines for in-place closure of dry lagoons. Volume 2: Evaluation of in-place closure technologies
[AD-A140655] 17 p2724 N84-27338
COIGNARD, A.
Non-invasive methods of cardiovascular exploration in aerospace medicine
[AGARD-AG-277(E)] 11 p1699 N84-21082
Echocardiography in the expert examination of flying personnel 11 p1700 N84-21090
COIT, D. W.
Reliability modeling of critical electronic devices
[AD-A135705] 09 p1328 N84-18669
COKER, E. M.
Modified quasilinearization algorithm for optimal control problems with nondifferential constraints and general boundary conditions. Part 1: Theory
[PB83-226944] 01 p0135 N84-10885
Modified quasilinearization algorithm for optimal control problems with nondifferential constraints and general boundary conditions. Part 2: Examples
[PB83-226936] 01 p0135 N84-10886
COLACHICO, J. M.
Export trade: Big business for the small entrepreneur
[AD-P002811] 13 p2059 N84-23357
COLALUCA, M. A.
An investigation into the injection molding of PMR-15 polyimide
[NASA-CR-173550] 15 p2301 N84-24810
COLBERT, J. C.
Assessing the credibility of the calorific value of municipal solid waste
[PB84-175470] 16 p2474 N84-25861
COLBURN, D. S.
Long range transport of fine grained sediments on Mars: Atmospheric dust loading, as inferred from Viking Lander imaging data 13 p2082 N84-23488
COLE, A. E.
Winds: Chapter 6, 1983 revision. Handbook of Geophysics and Space Environments
[AD-A132018] 03 p0410 N84-12683
Handbook of geophysics and space environments, Chapter 15, 1983 revision: Atmospheric temperature, density and pressure
[AD-A138846] 13 p2017 N84-23076
COLE, A. G.
Beam dynamics in the Advanced Test Accelerator (ATA)
[DE84-001421] 04 p0598 N84-13947
COLE, C. C.
Aircraft loading adapter for use with ordnance lift vehicle
[AD-D011147] 23 p3696 N84-33421
COLE, C. R.
A laboratory test for evaluating the fire containment characteristics of aircraft class D cargo compartment lining material
[DOT/FAA/CT-83/44] 01 p0006 N84-10035
COLE, D. W.
Effects of acid precipitation and natural processes on cation leaching from 4 diverse forest ecosystems
[DE83-015759] 01 p0103 N84-10671
COLE, E. R.
Issues in satellite packet video communication
[AD-A135942] 09 p1303 N84-18515
COLE, G. L.
Operating system for a real-time multiprocessor propulsion system simulator
[NASA-TM-83605] 10 p1566 N84-20258
COLE, J. D.
Cochlear mechanics: Analysis for a pure tone
[AD-A136438] 09 p1386 N84-19055
Asymptotics and numerics
[AD-P002934] 14 p2196 N84-24174
Study of asymptotic theory of transonic wind tunnel wall interference
[AD-A141431] 19 p2958 N84-28751
COLE, J. E.
The technical, economic and institutional feasibility of customer premises Earth stations for INTELSAT service
[PB84-128404] 10 p1484 N84-19703
COLE, J. E., III
Analytical model of the structureborne interior noise induced by a propeller wake
[NASA-CR-172381] 21 p3490 N84-32119
COLE, J. H.
Signal waveform detector using synthetic FM demodulation
[AD-D011055] 22 p3572 N84-32618
COLE, K. N.
Design and implementation of an Input/Output interface protocol for the INTEL 432/670 computer system
[AD-A138429] 12 p1883 N84-22273
COLE, L. A.
Research directions and progress in SERI advanced high efficiency concepts program 19 p3046 N84-29325
COLE, L. M.
Analysis of the acquisition costs of uniquely-built spacecraft versus multi-mission modular spacecraft surrogates for the military space program of the 1970's
[AD-A141120] 19 p3114 N84-29785

COLE, M.
Proceedings of the Conference on Joint Problem Solving and Microcomputers
[AD-A135001] 08 p1211 N84-17901
COLE, R. A.
Concrete behavior under dynamic tensile-compressive load
[AD-A141735] 19 p3036 N84-29255
COLE, R. B.
Behavior of cascaded airfoils under conditions of high mean loading and flow unsteadiness
[AD-A139799] 15 p2263 N84-24592
COLE, S.
HgCdTe surface and defect study program
[AD-A142342] 20 p3308 N84-31010
COLE, T.
Lithium cell reactions
[AD-A142976] 21 p3391 N84-31522
COLELLA, R.
Proposal for a free electron laser in the X-ray region
[DE84-004735] 10 p1501 N84-19808
COLELLO, R. G.
Catalog of selected heavy duty transport energy management models
[NASA-CR-168299] 05 p0761 N84-14991
COLEMAN, D. P.
Experimental investigation of certain beam transport issues in a pulsed transmission line linear accelerator
[DE84-011191] 22 p3654 N84-33164
COLEMAN, E.
Dilution jet mixing program
[NASA-CR-174624] 17 p2609 N84-26702
COLEMAN, H. P.
Performance analysis of a three-dimensional microwave lens in a cylindrical array scanning application
[AD-A131891] 03 p0360 N84-12345
COLEMAN, H. W.
Generalized roughness effects on turbulent boundary layer heat transfer. A discrete element predictive approach for turbulent flow over rough surfaces
[AD-A141943] 20 p3183 N84-30227
COLEMAN, J. R.
Effects of fuels on the physical properties of nitrile rubber O-rings
[AD-A136647] 10 p1470 N84-19599
Properties of fuels employed in a gas turbine combustor program
[AD-A136663] 10 p1470 N84-19600
Comparison of JFTOT (Jet Fuel Thermal Oxidation Tester) and absorbance methods for determining jet fuel thermal stability
[AD-A138673] 15 p2304 N84-24825
COLEMAN, P. R.
Estimation of small area populatons using remote sensing and other approaches
[DE84-003404] 08 p1178 N84-17678
COLEMAN, R. R.
Wave engine technology development
[AD-A139175] 14 p2155 N84-23911
COLEMAN, R. V.
Spectroscopy of surface adsorbed molecules
[DE84-005254] 10 p1589 N84-20417
COLEMAN, S.
Integrated Computer-Aided Manufacturing (ICAM) architecture, part 3. Volume 7: MFG01 glossary
[AD-A144426] 24 p3947 N84-34991
COLEMAN, T. F.
Topics in large sparse nonlinear optimization
[DE84-008933] 19 p3090 N84-29620
COLEMAN, W.
A 500-watt solid-state RF power amplifier AM-7209( )/VRC
[AD-A129327] 01 p0071 N84-10463
COLES, M. G. H.
The event related brain potential as an index of information processing, cognitive activity, and skill acquisition: A program of basic research
[AD-A137779] 11 p1702 N84-21100
COLES, W. A.
Solar cycle evolution of the solar wind in three dimensions 03 p0469 N84-13090
COLGATE, S. A.
Photon damping in cosmic-ray acceleration in active galactic nuclei
[DE83-011320] 03 p0476 N84-13133
Gamma-burst emission from neutron-star accretion
[NASA-TM-85436] 07 p1094 N84-17112
Solar flares: An extreme of reconnection
[DE84-004413] 10 p1597 N84-20467
The galactic acceleration of ultrahigh energy cosmic rays
[DE84-012442] 20 p3320 N84-31080
Photon losses in cosmic ray acceleration in active galactic nuclei
[DE84-012583] 20 p3321 N84-31081
COLIN, J.
Non-invasive methods of cardiovascular exploration in aerospace medicine
[AGARD-AG-277(E)] 11 p1699 N84-21082
Use of changes in electrical impedance in cardiology 11 p1701 N84-21094
COLIN, R.
Ammonia boiling in long tubes. Heat transfer and charge loss in vertical and horizontal tubes
[CETIM-14-C-011] 21 p3403 N84-31588
COLIZZI, E.
The thermal design of L-SAT large telecommunication satellite 10 p1441 N84-19414
COLLA, N. H.
Voice processor for a single channel per carrier FM earth station
[INPE-2707-TDL/130] 09 p1298 N84-18485
Specifications for a low capacity SCPC FM Earth station
[INPE-2944-NTE/208] 17 p2652 N84-26959
COLLARD, M.
Current methods of evaluation of bone mineral content 23 p3807 N84-34142
COLLAROS, G. J.
Design analysis of advanced photovoltaic technologies
[DE84-000008] 04 p0557 N84-13675
COLLERSON, K. D.
Ion microprobe zircon geochronology of the Uivak Gneisses: Implications for the evolution of early terrestrial crust in the North Atlantic Craton 11 p1678 N84-20951
COLLETTE, J. G. R.
Space Shuttle AFRSI OMS pod environment test using model 81-0 test fixture in the Ames Research Center 9x7-foot supersonic wind tunnel (OS-314A/B/C)
[NASA-CR-167689] 24 p3860 N84-34464
COLLIER, R. W.
A software scheme for managing magnetic tape storage space
[AD-A142847] 21 p3465 N84-31969
COLLIN, G.
Ion-ion correlations and phase transitions in nascion type materials 11 p1743 N84-21375
COLLINGS, E. W.
The influence of containerless undercooling and rapid solid-state quenching on the superconductive and magnetic properties of some clustering alloy systems
[NASA-CR-171144] 23 p3718 N84-33566
COLLINS, A.
Applied cognitive science
[AD-A136780] 10 p1554 N84-20185
COLLINS, A. B.
CCRS proposal for evaluating LANDSAT-D MSS and TM data
[E84-10026] 02 p0238 N84-11560
COLLINS, A. C.
Organophosphate toxicity: Genetics, receptors, and antidotes
[AD-A141059] 20 p3259 N84-30685
COLLINS, B. D.
Development of an industry-based residential thermal program evaluation program 16 p2515 N84-26139
COLLINS, C. I.
Status of the development of a long-life engine coolant system
[AD-A143098] 21 p3413 N84-31642
COLLINS, C. W., JR.
Bottom-mounted profiling winch
[AD-A141808] 19 p3032 N84-29230
COLLINS, D. A.
Furnace transient anneal process and apparatus
[AD-D011048] 19 p3002 N84-29027
COLLINS, D. J.
AWOS (Automatic Weather Observing System) sensor evaluation. Transmissometer, forward-scatter meter and lidar ceilometer
[AD-A138743] 13 p2017 N84-23074
COLLINS, D. L.
Aftereffects associated with one and two stressors across conditions of complete, partial, or no control
[AD-P003299] 18 p2908 N84-28446
COLLINS, D. R.
Real-time attenuation of heated optical fibers in a nuclear reactor
[DE83-015141] 03 p0438 N84-12873
COLLINS, D. S.
The CTD data collected in the Rockall trough on RRS Shackleton Cruise 5c/78 during JASIN 1978
[IOS-147] 02 p0258 N84-11691
Long SeaSoar CTD sections in the northeast Atlantic Ocean collected during RRS Discovery Cruise 116
[IOS-148] 02 p0258 N84-11692
COLLINS, E.
Linearized dynamical model for the NASA/IEEE SCOLE configuration
[NASA-CR-172394] 22 p3542 N84-32423
COLLINS, F.
Studies of convection in a solidifying binary mixture at reduced gravity
[NASA-CR-170916] 02 p0190 N84-11231
COLLINS, G. J.
Photodeposition of nitride insulators on 3-5 substrates
[NASA-CR-173393] 12 p1797 N84-21720
COLLINS, H. D.
An acoustical imaging system for the inspection of solid rocket motors
[AD-A139482] 14 p2156 N84-23918
COLLINS, J. O.
Opacification of high temperature fibrous insulation
[NASA-CR-166578] 21 p3356 N84-31285
COLLINS, L. A.
Resonances in electron-molecule scattering and photoionization
[DE84-012860] 21 p3494 N84-32139
COLLINS, M. F.
Modeling concepts for communication of geometric shape data 12 p1875 N84-22217
COLLINS, M. W.
Network file-storage system
[DE84-001066] 04 p0585 N84-13863
COLLINS, O. M.
Impact of corporate resource allocation decisions on national security objectives: Dissynergism in aerospace industrial resource planning
[AD-P002801] 13 p2058 N84-23347
COLLINS, R. E.
Mathematical simulation of the cardiopulmonary system
[AD-A135460] 08 p1200 N84-17822
COLLINS, S. A., JR.
Optical pulse generator using liquid crystal light valve 12 p1906 N84-22414
Optical residue addition and storage units using a Hughes liquid crystal light valve 12 p1906 N84-22417
COLLINS, W.
Analysis of electrical accident prevention countermeasures
[PB84-102987] 08 p1207 N84-17869
Detection of hidden mineral deposits by airborne spectral analysis of forest canopies
[E84-10110] 12 p1830 N84-21928
COLLIS, W. J.
Thermal conductivity of ternary and quaternary III-V compounds
[AD-A135336] 08 p1235 N84-18070
Material growth and characterization for solid state devices
[NASA-CR-173265] 10 p1587 N84-20401
COLLOM, T. A.
Utilization of double integration methodology to determine an aircraft's vertical displacement
[AD-P002681] 11 p1658 N84-20818
COLN, M. C.
A dielectric study of the Time-Temperature-Transformation (TTT) diagram of DGEBA epoxy resins cured with DDS (Diaminodiphenylsulfone)
[AD-A137358] 10 p1466 N84-19573
COLOMBANT, D. G.
Anode plasma expansion in pinch-reflex diodes
[AD-A131083] 01 p0149 N84-10977
Stimulated Brillouin backscatter in long scale length plasmas
[DE83-013817] 01 p0150 N84-10984
Status of light ion inertial fusion research at NRL (Naval Research Laboratory)
[AD-A135951] 09 p1392 N84-19087
COLOMBO, G.
Investigation of electrodynamic stabilization and control of long orbiting tethers
[NASA-CR-170972] 08 p1115 N84-17251
COLOMONICO, A.
Data transmission at 1200 Baud in mobile or fixed radio links with interchannel interferences 10 p1478 N84-19655
COLON-RAMOS, H. M.
Water resources data for Puerto Rico, 1981 - 1982
[PB84-114701] 09 p1339 N84-18746
COLSON, W. B.
Theory of pulse propagation and coherence in free electron
[AD-A133334] 06 p0850 N84-15544
Long range coherence in free electron lasers
[NASA-CR-173678] 18 p2845 N84-28068

COLTMAN, J. W.
Design and development of an automatically controlled variable-load energy absorber
[AD-A142683] 20 p3128 N84-29868
COLTORU, M.
The Levi problem for cohomology classes
22 p3634 N84-33032
COLTON, D. L.
Inverse scattering problem
[AD-A142634] 20 p3291 N84-30894
COLTON, M. C.
Hydrographic data from the OPTOMA (Ocean Prediction Through Observations, Modeling and Analysis) program OPTOMA2, legs I and II, 31 July - 14 August, 1982
[AD-A141547] 19 p3061 N84-29424
Hydrographic data from the OPTOMA (Ocean Prediction Through Observations, Modeling and Analysis) program: OPTOMA1, 8 to 13 March 1982
[AD-A141666] 19 p3061 N84-29425
COLUCCI, S. J.
Diagnostic studies of atmospheric blocking patterns
02 p0246 N84-11611
COLUMBUS, B. R.
Tropical cyclone report, January - December 1983
[AD-A137836] 11 p1687 N84-21000
COLWELL, G. T.
Modeling of transient heat pipe operation
[NASA-CR-173305] 09 p1312 N84-18575
COLWELL, R. N.
Analysis of the quality of image data acquired by the LANDSAT-4 thematic mapper and multispectral scanners
[E84-10028] 02 p0238 N84-11561
Estimating temperature and moisture regimes in forest and rangeland soils using thermal remote sensing
[PB83-237453] 02 p0241 N84-11577
Analysis of the quality of image data acquired by the LANDSAT-4 Thematic Mapper (TM) of the Black Hills area, South Dakota
[E84-10041] 04 p0552 N84-13634
Analysis of the quality of image data acquired by the LANDSAT-4 thematic mapper and multispectral scanners
[E84-10106] 12 p1829 N84-21924
Analysis of the quality of image data acquired by the LANDSAT-4 Thematic Mapper and Multispectral Scanners
[E84-10137] 16 p2506 N84-26085
Characterization of LANDSAT-4 TM and MSS image quality for interpretation of agricultural and forest resources 20 p3213 N84-30411
COMBI, M. R.
Outer satellite atmospheres: Their extended nature and planetary interactions
[NASA-CR-174579] 05 p0764 N84-15013
Outer satellite atmospheres: Their extended nature and planetary interactions
[NASA-CR-173395] 12 p1922 N84-22524
COMER, E. R.
Ada (trademark) design language concerns
[AD-P003431] 20 p3271 N84-30763
COMER, J. J.
Dislocations in Syton polished InP
[AD-A138041] 12 p1913 N84-22463
COMER, R. P.
Lower mantle heterogeneity, dynamic topography and the geoid
[NASA-CR-173621] 16 p2521 N84-26184
COMES, R.
Ion-ion correlations and phase transitions in nascion type materials 11 p1743 N84-21375
COMFORT, R. H.
Plasma and magnetospheric research
[NASA-CR-171031] 15 p2368 N84-25205
Plasma and magnetospheric research
[NASA-CR-171060] 19 p3053 N84-29374
Plasma and magnetospheric research
[NASA-CR-171157] 23 p3827 N84-34275
COMINSKY, L.
Studies of highly variable galactic X-ray sources with HEAO-1
[NASA-CR-170941] 06 p0941 N84-16112
COMISO, J. C.
Antartic sea ice, 1973 - 1976: Satellite passive-microwave observations
[NASA-SP-459] 01 p0110 N84-10718
COMLY, J. C., JR.
The XUV/VUV free-electron laser oscillator
[DE84-011347] 20 p3193 N84-30279
COMMEFORD, C. R.
Automated Q-GERT source code generation using computer aided design
[AD-A141127] 19 p3075 N84-29509
COMMISSO, R. J.
Plasma switch development
[AD-A143233] 22 p3586 N84-32711
COMO, A.
The mobile radio service in the integrated network
10 p1477 N84-19652
COMO, M.
Aerodynamic instability of cable-stayed bridges: Theoretical experimental study of stall flutter
18 p2789 N84-27700
COMORETTO, S.
Use of a small scale wind tunnel and model shop at Aeronautica Macchi as an industrial tool
14 p2097 N84-23585
COMPAGNO, M.
When is an internal rotation a vibration?
[AD-A132974] 05 p0744 N84-14890
COMPANION, M. A.
Computer-Aided Design and Evaluation Techniques (CADET)
[AD-A130146] 01 p0121 N84-10784
COMPERE, A. I.
Diesel fuel extenders and substitutes
[DE84-003402] 08 p1167 N84-17597
COMPTON, E. C.
Evaluation tests of platinum resistance thermometers for a cryogenic wind tunnel application
[NASA-TM-85803] 14 p2148 N84-23865
COMPTON, H. R.
Analysis of shuttle oscillation in the Mach Number = 1.7 to Mach Number = 1.0 range
01 p0021 N84-10132
Stability and control over the supersonic and hypersonic speed range 01 p0021 N84-10135
Aerodynamic coefficient identification package dynamic data accuracy determinations: Lessons learned
01 p0022 N84-10138
Subsonic longitudinal performance coefficient extraction from shuttle flight data: An accuracy assessment for determination of data base updates
01 p0026 N84-10163
COMPTON, L. E.
Supercritical solvent coal extraction
[NASA-CASE-NPO-15210-1] 13 p1955 N84-22709
Oil shale extraction using super-critical extraction
[NASA-CASE-NPO-15656-1] 13 p2006 N84-23012
COMPTON, R. N.
Studies of compound states of atomic negative ions using laser beams
[AD-A144653] 24 p3962 N84-35091
COMPTON, R. T., JR.
Adaptive array behavior with periodic phase modulated interference
[AD-A132229] 04 p0521 N84-13427
Advanced adaptive antenna techniques
[AD-A134300] 07 p0993 N84-16434
Advanced adaptive antenna techniques
[AD-A134301] 07 p0993 N84-16435
The performance of an LMS (Least Mean Square) adaptive array with frequency hopped signals
[AD-A136461] 09 p1298 N84-18489
COMPTON, W. B., III
An experimental investigation of nacelle-pylon installation on an unswept wing at subsonic and transonic speeds
[NASA-TP-2246] 09 p1250 N84-18162
COMPTON, W. D.
Living and working in space. A history of Skylab
[NASA-SP-4208] 16 p2454 N84-25737
COMSTOCK, J. R.
Oculometric indices of simulator and aircraft motion
[NASA-CR-3801] 16 p2537 N84-26291
Characterizations of zeros in the functions of some Nevanlinna type classes in the bidisk
22 p3634 N84-33029
COMSTOCK, J. R., JR.
Visual information transfer. 1: Assessment of specific information needs. 2: The effects of degraded motion feedback. 3: Parameters of appropriate instrument scanning behavior
[NASA-CR-173913] 22 p3633 N84-33020
COMSTOCK, R. J.
Pre-transition phenomena in an iron-nickel alloy prior to the Martensite transformation
11 p1632 N84-20668
COMTE-BELLOT, G.
Experimental techniques for free edges of turbulent flows 06 p0837 N84-15450
Asymmetric turbulent flows 06 p0837 N84-15451
The core region of channel flows
06 p0837 N84-15452
CONAWAY, M. H.
Chemical stabilization of subgrade soil for the strategic expeditionary landing field
[AD-A132876] 05 p0663 N84-14356
CONCUS, P.
Some recent progress in steep front calculations for porous flow
[DE84-008249] 19 p3025 N84-29183
CONDIE, K. C.
The transition from an Archean granite-greenstone terrain into a charnockite terrain in southern India
11 p1678 N84-20952
CONDIT, C. D.
A regression model for the temporal development of soil pipes and associated gullies in the alluvial-fill valley of the Rio Puerco, central New Mexico
13 p2084 N84-23502
CONEL, J. E.
Preliminary geologic/spectral analysis of LANDSAT-4 Thematic Mapper data, Wind River/Bighorn basin area, Wyoming 20 p3213 N84-30413
CONETTI, S.
High energy electromagnetic shower position measurement by a fine grained scintillation hodoscope
06 p0912 N84-15928
A measurement of the response of an SCG1-C scintillation glass shower detector to 2-17.5 GeV positrons 06 p0913 N84-15930
Measurement of the energy resolution and related properties of an SCG1-C scintillation glass shower counter array for 1 to 25 GeV positrons
[DE84-007246] 14 p2148 N84-23871
CONFORTE, J. C.
Geostationary meteorological satellite image navigation
[INPE-2772-RPE/435] 07 p1023 N84-16632
CONGALTON, R. G.
Update and review of accuracy assessment techniques for remotely sensed data
[E84-10029] 01 p0099 N84-10646
CONILOGUE, R. L.
A large and small signal charge storage model for an enhancement mode M.O.S. field effect transistor
05 p0672 N84-14418
CONJERTI, S. N.
Pivotal mono wing cruise missile with wing deployment and fastener mechanism
[AD-D011192] 24 p3853 N84-34436
CONKIN, J.
Verification of an altitude decompression sickness prevention protocol for Shuttle operations utilizing a 10.s psi pressure stage
[NASA-TM-58259] 18 p2899 N84-28392
Increase in whole-body peripheral vascular resistance during three hours of air or oxygen prebreathing
[NASA-TM-58261] 20 p3259 N84-30684
Pulmonary artery location during microgravity activity: Potential impact for chest-mounted Doppler during space travel
[NASA-TM-58262] 21 p3457 N84-31935
CONKLE, J. P.
Portable, sequential air sampler
[AD-D011169] 23 p3793 N84-34057
CONKLIN, S. R.
Preliminary guidelines for maintenance of polyurethane foam (PUF) roofing systems
[AD-A143458] 22 p3560 N84-32543
CONKLING, M. L.
Passive solar design guidelines and evaluation criteria for builders 16 p2516 N84-26153
CONLAN, E.
LANDSAT-4 status 10 p1523 N84-19973
NOAA position for TM data distribution
10 p1524 N84-19981
CONLEY, C.
Morse type index theory for flows and periodic solutions for Hamiltonian equations
[AD-A134431] 07 p1061 N84-16883
CONLEY, C. C.
The Birkhoff-Lewis fixed point theorem and a conjecture of V. I. Arnold
[AD-A134534] 07 p1062 N84-16888
Note on subharmonic solutions of a Hamiltonian vector field
[AD-A134537] 07 p1062 N84-16890
CONLEY, J. H.
Status of the development of a long-life engine coolant system
[AD-A143098] 21 p3413 N84-31642
CONLEY, S. C.
Expectations, job perceptions and disconfirmation among Air Force Academy graduates
[AD-P003259] 18 p2906 N84-28426
CONLEY, T.
Seawater hydraulics: Development and evaluation of an experimental diver tool system
[AD-A142032] 19 p3032 N84-29231
CONLON, E. J.
A field study of Air Force organization structures
[AD-A142389] 20 p3312 N84-31035
CONLON, T. W.
The detection of pitting corrosion in stainless steel using double-layer activation
[AERE-R-9751] 01 p0047 N84-10304

CONN, A. F.
Fatigue testing of OTEC cold water pipe glass-reinforced plastic materials
[PB84-128958] 09 p1335 N84-18715
CONN, H. C., JR.
Distributed processing tools definition. Volume 1: Hardware and software technologies for tightly-coupled distributed systems
[AD-A137686] 11 p1704 N84-21105
Distributed processing tools definition. Volume 2: Application of software engineering technology
[AD-A137687] 11 p1704 N84-21106
Distributed processing tools definition. Volume 3: An integrated software engineering environment for distributed processing software development
[AD-A137688] 11 p1704 N84-21107
CONN, R. W.
Fusion reactors: Physics and technology
[DE83-017148] 08 p1232 N84-18055
Research on modeling of FED/INTOR radio-frequency heating and studies of FED/INTOR impurity-control mechanisms
[DE83-016756] 08 p1233 N84-18056
Magnetic fusion energy plasma interactive and high heat flux components. Volume 1: Technical assessment of the critical issues and problem areas in the plasma materials interaction field
[DE84-011527] 20 p3302 N84-30969
START/TM: A study of start-up and fractional power operation of tandem mirror fusion reactors
[DE84-011477] 21 p3502 N84-32196
Observation of advanced particle removal rates in pump limiter simulation experiments
[DE84-014327] 22 p3660 N84-33202
CONNAN, C.
Connecting aircraft and external loads
06 p0770 N84-15046
CONNELL, C. M.
MIL-STD-1760 development program
[AD-P003526] 21 p3330 N84-31130
CONNELL, J.
Benchmarking unstructured systems
[DE83-011175] 05 p0758 N84-14969
Prolonging the life of software
[DE84-001722] 22 p3641 N84-33088
CONNELL, J. R.
Scaling wind characteristics for designing small and large wind turbines
[DE83-014501] 06 p0880 N84-15728
Numeric and fluid dynamic representation of tornadic double vortex thunderstorms
[NASA-CR-171023] 15 p2370 N84-25217
Measurement of turbulent wind velocities using a rotating boom apparatus
[DE84-012417] 21 p3448 N84-31875
Basic principles and recent observations of rotationally sampled wind
[DE84-013267] 22 p3626 N84-32976
Rotationally sampled wind characteristics and correlations with MOD-OA wind turbine response
[PNL-5238] 24 p3916 N84-34794
CONNELLY, D. J.
Thermal property measurement techniques and some results for CdTe
[AD-A131455] 02 p0299 N84-11959
Thermal property measurement techniques and some results for CdTe
[AD-A133899] 05 p0753 N84-14936
Thermal property measurement techniques and some results for CdTe and (Hg,Cd)Te alloys
[AD-A139375] 14 p2242 N84-24462
CONNELLY, D. L.
Light transmitting window assembly
[NASA-CASE-MSC-18417-1] 13 p2042 N84-23251
CONNELLY, E. M.
Factors affecting specifications for computer software programs
[AD-A133070] 05 p0730 N84-14792
Transformations of software design and code may lead to reduced errors 13 p2027 N84-23145
CONNELLY, T. G.
Intermediate access switch: A multiprocessor application
[AD-A140363] 16 p2485 N84-25935
CONNER, D. A.
Experimental blade vortex interaction noise characteristics of a utility helicopter at 1/4 scale
[NASA-TM-84653] 08 p1227 N84-18018
CONNERNEY, J. E. P.
Saturn's ionosphere: Inferred electron densities
[NASA-TM-85121] 07 p1092 N84-17102
The Z3 model of Saturns magnetic field and the Pioneer 11 vector helium magnetometer observations
[NASA-TM-86118] 17 p2776 N84-27623
Wet model of Saturn's ionosphere: Water from the rings
[NASA-TM-86144] 24 p3992 N84-35262
CONNERS, R. W.
A study of texture analysis algorithms
[AD-A131498] 01 p0123 N84-10802
CONNOLLY, D. J.
Microwave monolithic integrated circuit development for future spaceborne phased array antennas
[NASA-TM-83518] 04 p0517 N84-13399
MMIC technology for advanced space communications systems
[NASA-TM-83749] 20 p3173 N84-30147
The 20 and 30 GHz MMIC technology for future space communication antenna system
[NASA-TM-83745] 21 p3382 N84-31460
Monolithic microwave integrated circuits: Interconnections and packaging considerations
[NASA-TM-83774] 21 p3382 N84-31461
CONNOLLY, P.
Status of P714 - LAPDOG
[DE83-013613] 01 p0164 N84-11079
CONNOLLY, P. E.
Direct measurement of Earth's vertical deflection using global positioning system
[AD-D011099] 22 p3534 N84-32373
CONNOLLY, P. L.
Neutrino-oscillation experiments at Brookhaven National Laboratory
[DE83-018275] 04 p0528 N84-13476
CONNOLLY, T.
Information search in judgment tasks: The effects of unequal cue validity and cost
[AD-A141712] 19 p3063 N84-29437
CONNON, T. R.
Horizontal diplopia thresholds for head-up displays
[AD-A141965] 20 p3129 N84-29872
CONNOR, T. L.
Area equivalent method VISICALC (trade name). Users' guide
[AD-A141430] 19 p3084 N84-29572
CONNORS, J. M.
Micro-Optic gyro technology
[AD-A130990] 02 p0223 N84-11461
CONRAD, E. R.
Integration of ICNIA into advanced high performance fighter aircraft 06 p0772 N84-15059
CONRAD, H.
The electroplastic effect in metals
[AD-A141526] 19 p2994 N84-28971
CONRAD, M. R., JR.
Computer graphics enhancement for COMEL (communications electronics)
[AD-A141920] 20 p3269 N84-30741
CONRAD, P.
Development of procedures for component mode synthesis
[DFVLR-IB-232-82-C-09] 12 p1782 N84-21626
CONRADI, J. R.
VLSI (Very Large Scale Integrated) design of a 16 bit very fast pipelined carry look ahead adder
[AD-A136356] 09 p1306 N84-18540
CONRADSEN, K.
Statistical lineament analysis in South Greenland based on LANDSAT imagery 23 p3770 N84-33901
CONROY, M. J.
Test results for 27.5- to 30-GHz communications satellite receivers
[NASA-TM-83662] 18 p2828 N84-27954
CONSIGNY, H.
Analysis of pressure distributions on a wing with an oscillating trailing edge flap in subsonic and transonic flow 04 p0478 N84-13145
CONSOLMAGNO, G.
Origin and evolution of the Saturn system
[NASA-TM-85847] 04 p0621 N84-14096
Origin and evolution of the Saturn system
13 p2073 N84-23433
CONSTANT, R. N.
MIL-STD-1750A as a spaceborne instruction set architecture
[AD-P003554] 21 p3334 N84-31158
CONTADOR, J. L.
An inventory planning system
[INPE-2766-PRE/339] 10 p1591 N84-20423
Hierarchical planning systems applied to production: A study
[INPE-3147-PRE/531] 23 p3833 N84-34314
CONTAMIN, P.
Outline and evaluation of a spaceborne sodium heat pipe furnace with three compartments
10 p1440 N84-19407
CONTE, A. A., JR.
Aircraft water-based solid film lubricants
[AD-A133732] 05 p0658 N84-14328
Intercalation compounds: A new class of materials as advanced solid lubricants (wear life studies and differential thermal analysis)
[AD-A137424] 10 p1466 N84-19576
CONTE, E.
Optimum and sub-optimum processors for multistatic radar systems 06 p0806 N84-15885
CONTI, R.
Numerical techniques for high incidence reentry aerodynamics
[AD-A134178] 07 p0948 N84-16149
CONTURIE, Y. G.
Development of an XUV amplifier
06 p0848 N84-15532
CONVERT, F.
In situ goniometer
[CETIM-5.41.22.0] 21 p3407 N84-31609
CONVEY, J. J.
Color perception and ATC job performance
[AD-A132649] 06 p0890 N84-15781
CONWAY, E.
User centered system design
[AD-A136131] 09 p1364 N84-18907
CONWAY, M.
Guidelines for testing and release procedures
[NASA-CR-166581] 21 p3464 N84-31962
CONWAY, R. R.
An extreme ultraviolet spectrometer experiment for the Shuttle Get Away Special Program
18 p2601 N84-27778
CONZE, P.
Development of technologies for highly integrated circuits
[BMFT-FB-T-83-142] 02 p0216 N84-11417
COOK, A. F.
The Laplacian resonance and tidal dissipation
13 p2073 N84-23434
COOK, B. J.
A spiral analysis technique for monitoring and predicting tropical cyclone intensity using satellite data
[AD-A141468] 19 p3058 N84-29401
COOK, C. E.
Inflatable device for installing strain gage bridges
[NASA-CASE-FRC-11068-1] 03 p0375 N84-12443
COOK, C. R.
The acquisition management information system: Friend or foe?
[AD-P002751] 13 p2050 N84-23298
COOK, D. C.
Feasibility studies of Conversion Electron Moessbauer Spectroscopy (CEMS) of iron-doped InP
[AD-A142463] 20 p3309 N84-31014
COOK, D. R.
Rush field experiments: Growth and initial decay of the mixed layer over an autumn landscape
[DE84-001671] 07 p1040 N84-16743
COOK, E.
Magnetic switching
[DE83-012952] 03 p0433 N84-12841
COOK, F. D.
Gate array layout using CADDS 2
[DE83-014840] 01 p0075 N84-10491
COOK, G. M.
Diffusion mass transfer of KOH through Ni/Zn battery membrane separators
[DE83-014551] 03 p0367 N84-12367
COOK, J. C.
Sulfur extended asphalt pavement evaluation in the State of Washington: SR 270 highway pavement performance report
[PB83-205567] 01 p0058 N84-10380
COOK, L. M.
Role of abrasion in the optical polishing of metals and glass
[DE84-005737] 13 p2043 N84-23259
COOK, M. K.
Adaptive hybrid picture coding
[AD-A138876] 13 p2033 N84-23184
COOK, M. V.
A technique for optimizing the aerodynamic design of a generalized combat aircraft with forward swept wings for the purposes of stability and control investigation
[CA-8325] 16 p2448 N84-25700
COOK, N. E., JR.
Strength and stiffness of AISC type 2 steel frames
21 p3416 N84-31666
COOK, P. A.
Training the multiple-aircraft combat environment
[AD-P003495] 21 p3514 N84-32261
COOK, P. H.
Disturbances from ventilated tunnel walls in aerofoil testing 14 p2096 N84-23573
COOK, R. A.
Tracking Data Acquisition System (TDAS) for the 1990's. Volume 6: TDAS navigation system architecture
[NASA-CR-175198] 10 p1434 N84-19374

COOK, R. C.
Dynamic overstresses in fibrous polymeric materials
[DE84-012605] 21 p3372 N84-31394
COOK, R. D.
Lightning mapper sensor design study
[NASA-CR-170909] 04 p0566 N84-13732
Bias in nonlinear regression
[AD-A139239] 14 p2218 N84-24308
Residuals in nonlinear regression
[AD-A139309] 14 p2218 N84-24311
Assessment of local influence
[AD-A143002] 21 p3473 N84-32014
COOK, R. F.
Effect of contact damage on the strength of ceramic materials
[AD-A133746] 05 p0658 N84-14327
Stress corrosion of ceramic materials
[AD-A136729] 10 p1467 N84-19581
COOK, W. A.
A quasi-lagrangian diagnostics investigation of rapid cyclogenesis in a polar air stream
[AD-A136844] 10 p1540 N84-20091
COOK, W. A., JR.
Preliminary evaluation of the light pen as the key component in a microcomputer-based simulator
[AD-A132596] 05 p0719 N84-14712
COOK, W. M.
Ultrafast gated intensifier design for laser fusion X-ray framing applications
[DE84-007761] 15 p2339 N84-25038
COOKE, D. J.
Stormer equation implementation using offset dipole coordinates derived from specified geographic coordinates
[AD-A130079] 01 p0104 N84-10676
The high zenith angle limits of cosmic ray access to an Earth satellite
[AD-A130216] 01 p0166 N84-11092
COOKE, D. L.
Polar code development
[AD-P002122] 16 p2524 N84-26208
COOKE, D. R.
Minimum testing of the space shuttle orbiter for stability and control derivatives 01 p0021 N84-10134
COOKE, J. F.
Solid-State Division
[DE84-000296] 04 p0613 N84-14045
Theoretical study of neutron scattering cross sections in semiconductors
[DE84-007540] 15 p2415 N84-25498
Band structure effects in the electronic properties of solids assessible in neutron scattering studies
[DE84-008557] 18 p2941 N84-28654
COOKE, K. J.
Modelling of visual search performance
[BAE-BT-14588] 13 p2021 N84-23106
COOKE, N. M.
Cognitive organization as a function of flying experience
[AD-A141767] 19 p3068 N84-29459
COOLEY, J. E.
Qualification testing and electrical measurement experience: A manufacturer's view 22 p3585 N84-32705
COOLEY, W. L.
Analysis of electrical accident prevention countermeasures
[PB84-102987] 08 p1207 N84-17869
COOLIDGE, M. B.
Deuterium isotope effects in HMX thermochemical mechanisms: Decomposition, deflagration, and combustion 13 p1950 N84-22680
COOMBS, P. G.
The role of sintering in the oxidation-reduction of palladium powders
[DE84-011202] 20 p3159 N84-30059
COONROD, J.
A 2-D skin-current toroidal-MHD-equilibrium code
[DE83-016916] 03 p0446 N84-12929
COONROD, J. F.
Future development trends for Head-Up Displays
[AD-P003164] 17 p2589 N84-26595
COOP, H. D.
Commentary on Columbia River instream flows
[PB84-133651] 10 p1527 N84-20007
COOPER, A. L.
Vortex shedding and laser ablation
[DE84-000301] 04 p0541 N84-13565
COOPER, A. P. B.
A study of satellite radar altimeter operation over ice-covered surfaces
[ESA-CR(P)-1810] 08 p1179 N84-17683
COOPER, A. R.
Oxygen diffusion in alpha-Al2O3
[NASA-TM-83622] 19 p2997 N84-28990
COOPER, B. A.
Clustering of the least squares lattice PARCOR (partial correlation) coefficients: A pattern-recognition approach to steady state synthetic vowell identification
[AD-A131503] 01 p0134 N84-10876
COOPER, B. M.
Evaluation of unthrottled combustion system options for light duty applications with future syncrude derived fuels
[DE83-017047] 03 p0358 N84-12327
COOPER, D.
Comparative performance assessment of INTELSAT 5 nickel hydrogen and nickel cadmium batteries 23 p3740 N84-33704
COOPER, F.
Fun with supersymmetric quantum mechanics
[DE84-011329] 20 p3312 N84-31031
COOPER, G. H.
An argument for soft layering of protocols
[AD-A133948] 05 p0718 N84-14708
COOPER, H. B. H., JR.
Chemical composition of acid precipitation in Texas, volume 1
[DE84-900411] 07 p1027 N84-16659
COOPER, J. C.
Heat-storage materials for IRCM
[AD-A133110] 06 p0917 N84-15961
COOPER, J. F.
Aluminum-air research and development program. Summary report for FY 1982
[DE84-008360] 14 p2142 N84-23848
Aluminum-air power cell research and development
[DE84-008328] 15 p2365 N84-25188
Estimate of the consumer cost of aluminum fuel for electric vehicles
[DE84-008327] 15 p2421 N84-25539
COOPER, K.
Reflectance modeling 12 p1830 N84-21931
COOPER, L.
Managing program risk: One way to reduce cost growth
[AD-P002754] 13 p2051 N84-23301
COOPER, L. N.
Correlation of afferent activity and binocular receptive field properties
[AD-A143087] 21 p3457 N84-31938
COOPER, L. P.
OSHA medical and workplace surveillance requirements and NIOSH recommendations (for employees exposed to toxic substances and other work hazards)
[NASA-CR-3690] 07 p0966 N84-16258
Propulsion issues for advanced orbit transfer vehicles
[NASA-TM-83624] 16 p2459 N84-25762
Propulsion issues for advanced orbit transfer vehicles 20 p3140 N84-29937
COOPER, L. Y.
Significance of a wall effect in enclosures with growing fires
[PB83-235671] 02 p0192 N84-11247
COOPER, P. A.
Life considerations of the shuttle orbiter densified-tile thermal protection system 01 p0025 N84-10159
COOPER, R. H., JR.
Refractory alloy technology for space nuclear power applications
[DE84-001745] 21 p3497 N84-32166
COOPER, R. J.
Delineation of wetland boundaries using vegetation within the Altamaha River Basin of Georgia
[AD-A142590] 20 p3228 N84-30515
COOPER, R. K.
Effect of RF structure on cumulative beam breakup
[DE83-017302] 03 p0439 N84-12882
The XUV/VUV free-electron laser oscillator
[DE84-011347] 20 p3193 N84-30279
COOPER, S.
Evaluation of sampling methods for gaseous atmospheric samples
[PB84-190735] 20 p3151 N84-30012
COOPER, S. L.
Properties of multiphase polyurethane systems
[AD-A137542] 11 p1637 N84-20703
Properties of polyurethane anionomers: Ionization via bimolecular nucleophilic displacement of the urethane hydrogen
[AD-A137988] 12 p1801 N84-21742
Properties of UV-cured polyurethane acrylates: Effect of polyol type and molecular weight
[AD-A143176] 22 p3559 N84-32537
COOPER, W. A.
Experimental results on finite-beta limits and transport in the ISX-B Tokamak
[DE84-000258] 04 p0606 N84-14001
Cloud physics investigations by the University of Wyoming in HIPLEX 1977-1982
[PB84-106756] 08 p1192 N84-17770
ATF-1 torsatron studies
[DE84-003314] 09 p1392 N84-19089
COOPER, W. H. B.
A Fourier transform technique which measures phase delays between ultrasonic impulses with sufficient accuracy for the determination of residual stresses in metals
[AERE-R-1093] 01 p0047 N84-10306
COOPER, W. S.
Efficient radiation-hardened, 400- and 800-keV neutral-beam injection systems
[DE83-015691] 03 p0440 N84-12886
Summary of the status of negative-ion-based neutral beams
[DE84-001328] 04 p0598 N84-13948
Design and fabrication of a surface conversion negative ion source and an 80 keV pre-accelerator
[DE84-006753] 13 p2045 N84-23269
COOPER, W. W.
Pareto-optimality, efficiency analysis and empirical production functions
[AD-A141768] 19 p3088 N84-29601
COOPERMAN, G.
Switching behavior of bistable resonators filled with two-level atoms 14 p2236 N84-24419
COOPERSTEIN, G.
Status of light ion inertial fusion research at NRL (Naval Research Laboratory)
[AD-A135951] 09 p1392 N84-19087
COOPERSTEIN, J.
Type II successful supernovae, the anatomy of shocks: Neutrino emission and the adiabatic index
[DE84-002858] 11 p1757 N84-21472
COPAS, T. L.
Criteria for use of asphalt friction surfaces
[PB84-155613] 14 p2135 N84-23798
COPE, A. D.
Multispectral linear array visible and shortwave infrared sensors 23 p3781 N84-33977
COPE, R.
CADAS: A computer aided design tool for avionic systems 06 p0773 N84-15065
COPELAND, G. E.
Data reduction programs for a laser radar system
[NASA-CR-173152] 07 p0992 N84-16430
COPELAND, G. L.
Development of advanced thermal insulation for appliances
[DE84-013132] 22 p3594 N84-32763
COPELAND, R.
Raft thermocline thermal storage
[DE83-011962] 02 p0218 N84-11431
COPELAND, R. J.
High-temperature direct absorption research
[DE84-000019] 07 p1003 N84-16505
Requirements for high-temperature air-cooled central receivers
[DE84-000081] 20 p3235 N84-30534
COPLAN, M. A.
Interpretation of 3He variations in the solar wind
[NASA-TM-85049] 03 p0466 N84-13065
The relative abundance of 3He(++) in the solar wind 03 p0473 N84-13111
COPLIN, J. F.
The accelerating pace of advancing aero engine technology
[PNR-90191] 13 p1934 N84-22577
COPPA, A. P.
New developments in composite-flywheel containment
[DE83-012583] 03 p0383 N84-12497
Characterization of fiber composite flywheels by ultrasonic imaging techniques
[DE84-004689] 10 p1452 N84-19487
Composite ring-disk flywheel design, fabrication and testing
[DE84-004761] 10 p1453 N84-19488
COPPENS, A. B.
An introduction to the parabolic equation for acoustic propagation
[AD-A132315] 04 p0595 N84-13925
COPPI, B.
Beam plasma turbulence study
[AD-A131946] 03 p0444 N84-12917
Plasma dynamics 22 p3683 N84-33354
COPPIN, P. R.
Inventory of Flemish forests using medium-scale Color Infrared (CIR) photography and CIR orthophotoplans as base for a forest management data bank 03 p0400 N84-12614
COPPINS, M.
The Z-pinch program at Imperial College 10 p1583 N84-20372
COPPOCK, E. G.
Management of aerospace contract documentation by industry and government
[DE84-900451] 11 p1746 N84-21396

Management of aerospace contract documentation by industry and government 11 p1752 N84-21434

COPPOLA, A.
Artificial intelligence applications to maintenance technology working group report IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A137329] 10 p1503 N84-19827

CORAN, J.
Confidence region for the evaluation of HF DF single site location systems
[AD-A133208] 06 p0785 N84-15140

CORBETT, E. J.
Seismicity and crustal structure studies of southern California: Tectonic implications from improved earthquake locations 21 p3439 N84-31819

CORBETT, J. D.
New materials from high temperature synthesis
[DE84-014125] 22 p3664 N84-33231

CORBETT, R.
Power 09 p1269 N84-18288

CORBETT, W. T.
Radiation testing of the CMOS 8085 microprocessor family
[DE83-014604] 02 p0271 N84-11771

CORBIN, C. C.
Interactive Hazardous Materials Information System (HMIS): Description and assessment
[AD-A138329] 12 p1919 N84-22500

CORBIN, J. C.
Automated en route air traffic control algorithmic specifications. Volume 3: Flight plan conflict probe
[AD-A136795] 10 p1425 N84-19319

CORBIN, M. H.
Installation restoration general environmental technology development. Task 3: Guidelines for in-place closure of dry lagoons. Volume 2: Evaluation of in-place closure technologies
[AD-A140655] 17 p2724 N84-27338

CORBIT, C. D.
A guide for effluent radiological measurements at DOE installations
[DE83-016639] 04 p0538 N84-13542

CORBY, T. W., JR.
Measurement of residual strains and stresses in transparent materials
[AD-P003209] 17 p2593 N84-26622

CORCORAN, W. H.
Supercritical multicomponent solvent coal extraction
[NASA-CASE-NPO-15767-1] 07 p0965 N84-16255

CORDERMAN, R. R.
Optical emission and mass spectrometric studies of plasma deposition
[DE83-016700] 02 p0191 N84-11243
Effect of silane fraction on the optoelectronic and photovoltaic properties of RF-glow-discharge a-Si:H prepared from SiH4 + H2 mixtures
[DE83-016730] 04 p0615 N84-14058
Low temperature (150 to 250(0)C) deposition of n(+) and p(+) microcrystalline silicon for VLSI device contacts
[DE84-006474] 14 p2243 N84-24470

CORDES, S. C.
Water resources data for Idaho, water year 1982. Volume 1: Great Basin and Snake River Basin above King Hill
[PB84-118470] 09 p1338 N84-18740
Water resources data for Idaho, water year 1982. Volume 2: Upper Columbia River Basin and Snake River Basin below King Hill
[PB84-118488] 09 p1338 N84-18741

CORDES, V.
Development and prototype production of photovoltaic energy supply systems
[BMFT-FB-T-83-238] 10 p1531 N84-20025

CORDIA, E. R.
Lessons learned from the development and manufacture of ceramic reusable surface insulation materials for the space shuttle orbiters 01 p0025 N84-10158

CORDILL, C. A.
Development of long-length wire filament strain gages
[DE84-011543] 21 p3406 N84-31605

CORDTS, R. E.
Combined effects of ionizing radiation and anticholinesterase exposure on rodent motor performance
[AD-A131847] 03 p0414 N84-12707

COREY, R. G.
Behavior of Ni-Cr-Si coating alloys in Na2SO4, V2O5 and mixed salt hot corrosion
[DE84-012386] 21 p3367 N84-31363

CORIELL, S. R.
Application of solidification theory to rapid solidification processing
[AD-A134132] 05 p0653 N84-14291
Application of solidification theory to rapid solidification processing
[AD-A135982] 09 p1283 N84-18380
Microsegregation during directional solidification 24 p3882 N84-34597

CORK, C. R.
Textile ballistic performance (data base)
[AD-A143249] 22 p3560 N84-32541

CORKE, T. C.
Conceptual experiments in transition to turbulence through combined visualization and hot-wire techniques
[AD-A142193] 19 p3024 N84-29181

CORL, L.
Human factors affecting pilot performance in vertical and translational instrument flight
[AD-A139141] 14 p2187 N84-24105

CORLE, R. R.
Further abbreviation of the machining schedule for producing surface-damage-free beryllium
[DOE/TIC-4500-REV-69] 06 p0814 N84-15297

CORLESS, L. D.
A simulation investigation of the effects of engine-and thrust-response characteristics on helicopter handling qualities
[NASA-TM-85849] 01 p0005 N84-10034

CORLEY, J. P.
A guide for effluent radiological measurements at DOE installations
[DE83-016639] 04 p0538 N84-13542

CORLISS, L. D.
A helicopter flight investigation of roll-control sensitivity, damping and cross coupling in a low altitude lateral maneuvering task
[NASA-TM-84376] 07 p0959 N84-16216

CORMIER, M. J.
Role of calcium and calmodulin in plant cell regulation 02 p0263 N84-11725

CORN, R. M.
Surface plasmon-enhanced Raman scattering at thin silver films
[AD-A138321] 12 p1793 N84-21691
The potential dependence of surface plasmon-enhanced second harmonic generation at thin film silver electrodes
[AD-A138322] 12 p1793 N84-21692
Raman and infrared spectroscopy of molecules adsorbed on metal electrodes
[AD-A143466] 22 p3547 N84-32454
The interpretation of very low frequency Raman scattering from roughened silver electrodes: Clusters, cavities or complexes?
[AD-A143471] 22 p3657 N84-33184
Second harmonic generation at thin film silver electrodes via surface polaritons
[AD-A143597] 23 p3824 N84-34254

CORNACCHIA, M.
Colliding-beam-accelerator lattice
[DE83-017875] 04 p0614 N84-14050

CORNELIUS, C. E.
Water resources data for Minnesota, water year 1982. Volume 1: Great Lakes and Souris-Red-Rainy River Basins
[PB84-163047] 14 p2171 N84-24007
Water resources data for Minnesota water year, 1982. Volume 2: Upper Mississippi and Missouri River Basins
[PB84-163054] 14 p2171 N84-24008

CORNELIUS, H.
A device for the acceleration of convergence of a monotonously enclosing iteration method 16 p2541 N84-26307

CORNELL, C. A.
Effective use of earthquake data
[AD-A134077] 06 p0878 N84-15712

CORNELL, D. W.
Experimental determination of the relative flow at the tip of a transonic axial compressor rotor
[AD-A137483] 10 p1420 N84-19288

CORNETT, R. H.
Positive-feedback photometric drift in the PDS 18 p2840 N84-28025

CORNEY, N. S.
The wiper abrasion and rain erosion resistance of transparent materials and coatings for aircraft glazing
[AD-P003227] 17 p2596 N84-26640

CORNISH, C. R.
Radar observations of inertial period waves in the lower stratosphere over Arecibo 17 p2683 N84-27081
Effects of pulse width and coding on radar returns from clear air 17 p2684 N84-27092
Parmeterization of spectra 17 p2686 N84-27170

CORNISH, D. N.
Advanced high-field coil designs: 20 Tesla
[DE83-017368] 03 p0368 N84-12397
Analytical studies of advanced high-field designs: 20-Tesla large-bore superconducting magnets
[DE83-017591] 04 p0594 N84-13918
Ultra-high-field superconducting magnets
[DE84-003913] 08 p1226 N84-18012

CORNUEJOLS, G.
The travelling salesman problem in graphs with 3-edge cutsets
[AD-A133504] 06 p0902 N84-15852
An extension of matching theory
[AD-A137605] 11 p1706 N84-21120
Compositions for perfect graphs
[AD-A137611] 11 p1706 N84-21121

CORNWELL, L. R.
Optimization of ultrasonic flaw detection in railroad rail
[PB83-236919] 03 p0386 N84-12518

CORON, J. M.
The Dirichlet problem for harmonic maps from the disk into the Euclidean n-sphere
[AD-A139259] 14 p2213 N84-24287

CORONES, J. P.
Effects of dissipation in one-dimensional inverse problems
[DE83-017692] 03 p0362 N84-12353

CORP, D. O.
Ragone characteristics of aqueous mobile batteries and their application in projecting ranges of electric vehicles
[DE83-014701] 03 p0404 N84-12642
Testing and evaluation of EV-1300 lead-acid modules for the hybrid vehicle application
[DE84-006718] 14 p2249 N84-24510

CORRADO, G.
Study of ERS-1 dynamic interaction. Volume 1: Theoretical notes
[ER-RP-A1-002-VOL-1] 16 p2456 N84-25747

CORREA, A. C.
An active remote sensing system to map location of underwater oil seeps 23 p3781 N84-33974

CORREA, E. L.
Design guidelines for heating aircraft hangars with radiant heaters
[AD-A138496] 12 p1774 N84-21565

CORREA, R. A.
The theory of free electron lasers
[INPE-3158-TDL/170] 23 p3753 N84-33790

CORREA, S. M.
Aerothermal modeling. Executive summary
[NASA-CR-168330] 06 p0790 N84-15152
Aerothermal modeling, phase 1. Volume 1: Model assessment
[NASA-CR-168296-VOL-1] 06 p0790 N84-15155
Aerothermal modeling, phase 1. Volume 2: Experimental data
[NASA-CR-168296-VOL-2] 06 p0790 N84-15156

CORREALE, J. V.
Absorbent product and articles made therefrom
[NASA-CASE-MSC-18223-2] 02 p0269 N84-11758

CORREIA, E.
The simplest solar microbursts flux and circular polarization at 22 GHz
[INPE-2970-PRE/436] 07 p1092 N84-17104
Boundary conditions for the phenomena of solar bursts established from the statistical behavior of hard X-ray bands
[INPE-2906-TDL/147] 17 p2780 N84-27653
A new class of solar burst with MM-wave emission but only at the highest frequency (90 GHz)
[NASA-TM-87369] 24 p3992 N84-35264

CORREIA, V. R. M.
Quality measures for estimating the proportions of different classes within a single image resolution element (Pixel)
[INPE-2791-PRE/354] 23 p3763 N84-33852

CORRELL, D. L.
TMX-U experimental results
[DE83-016790] 03 p0449 N84-12955
TMX-U diagnostic system
[DE83-017834] 04 p0608 N84-14015

CORRIGAN, N. B.
Concurrent Pascal for RSX-11M
[HEDL-TME-82-46] 01 p0120 N84-10777

CORSETTI, T.
Longwave radiation parameterization for UCLA/GLAS GCM
[NASA-TM-86072] 11 p1681 N84-20971
Prospects for improvement of zonal mean temperatures in the UCLA general circulation model 12 p1856 N84-22088
Development and preliminary tests of a new long-wave radiation parameterization 12 p1857 N84-22097

CORSIGLIA, V. R.
Aerodynamic characteristics of the 40- by 80/80- by 120-foot wind tunnel at NASA Ames Research Center
[NASA-TM-85946] 14 p2104 N84-23622

CORSMEIER, R. J.
Air modulation apparatus
[NASA-CASE-LEW-13524-1] 23 p3694 N84-33410

CORSO, G. M.
Binary classification and the subtractive approach
[AD-A137716] 11 p1701 N84-21099
Estimating the number and duration of cognitive processes using the within-task subtractive method
[AD-A144617] 24 p3937 N84-34923

CORTESELLI, D.
Cognitive information processing
22 p3684 N84-33360

CORTESI, W.
NASA, the first 25 years: 1958 - 1983
[NASA-EP-182] 16 p2583 N84-26563

CORWIN, W. H.
A performance-based technique for assessing equipment maintainability
[AD-A133518] 06 p0894 N84-15809

CORWIN, W. R.
Effect of specimen size and nickel content on the impact properties of 12 Cr-1 MoVW ferritic steel
[DE84-003270] 08 p1134 N84-17377

CORY, J.
Calculation of forced response to base excitation using experimentally derived modal participation factors
03 p0340 N84-12205

CORY, W. E.
Verification of hardware design correctness: Symbolic execution techniques and criteria for consistency
[AD-A136466] 09 p1365 N84-18912

CORYNEN, G. C.
Evaluating the response of complex systems to environmental threats: The Sigma 2 method
[UCRL-53399] 16 p2551 N84-26366

COSBY, P. C.
Ion photofragment spectroscopy: Structure and dissociation of molecular ions
[AD-A141196] 18 p2811 N84-27846

COSDEN, T. H.
Aerosol measurements at an optical propagation site on the Outer Hebrides
[AD-A143564] 22 p3625 N84-32972

COSENTINO, G. B.
Numerical optimization design of advanced transonic wing configurations
[NASA-TM-85950] 18 p2792 N84-27718

COSENTINO, M. J.
Annotated bibliography of global resources information systems related publications 21 p3428 N84-31746
Global resources information system
21 p3428 N84-31747

COSGROVE, D.
Biophysical mechanism of differential growth during gravitropism 09 p1356 N84-18861

COSMAN, M. A.
DMA and CIG: A shotgun wedding
[AD-P003459] 21 p3510 N84-32236

COSMELLI, C.
Study of a gravitational antenna coupled to a resonant capacitive transducer: Equivalent circuit and noise spectra
[IFSI-82-3] 05 p0677 N84-14450

COSMOVICI, C. B.
Search for exotic molecules in bright comets
24 p3981 N84-35222

COST, J. R.
Kinetics of structural relaxation in metallic glasses
[DE83-015924] 02 p0201 N84-11309
Analysis of anelastic relaxations controlled by a spectrum of relaxation times
[DE84-006014] 12 p1915 N84-22479
Isothermal calorimetric investigation of a reversible reaction in rapidly solidified Fe40N40B20
[DE84-006013] 15 p2296 N84-24791

COSTA, A. F. B.
A problem in the optimal control of queueing workloads for the M/G/1 file
[INPE-3106-PRE/505] 16 p2546 N84-26339

COSTA, D. G.
Multiple critical points of invariant functionals and applications
[AD-A130544] 01 p0130 N84-10853
Remarks on the Ambrosetti-Prodi problem
[AD-A139237] 14 p2212 N84-24282

COSTA, J. E. R.
Influence of the magnetic field in the temporal evolution of solar flare X-ray and microwave radiation
[INPE-2842-TDL/140] 02 p0308 N84-12020
The simplest solar microbursts flux and circular polarization at 22 GHz
[INPE-2970-PRE/436] 07 p1092 N84-17104
Timing analysis of hard X-ray emission and 22 GHz flux and polarization in a solar burst
[INPE-3103-PRE/502] 16 p2581 N84-26551
A new class of solar burst with MM-wave emission but only at the highest frequency (90 GHz)
[NASA-TM-87369] 24 p3992 N84-35264

COSTA, M. F.
Electromagnetic radiation and scattering from a system of conducting bodies interconnected by wires
13 p1984 N84-22882

COSTA, S. R. X.
A problem of determining the optimal policy for maintenance systems with reserve machines and a variable number of servers
[INPE-3197-TDL/173] 23 p3832 N84-34310
The problem of determining the optimum policy for maintaining systems with spare machines and a number of variable servers
[INPE-3132-PRE/523] 23 p3833 N84-34312

COSTAKIS, W.
Real-time simulation of an automotive gas turbine using the hybrid computer
[NASA-TM-83593] 16 p2569 N84-26484

COSTANTINO, M.
Feasibility of using sonic techniques to estimate in-situ stresses
[DE83-016890] 01 p0097 N84-10634
Relevance of rock mechanics to gun propellants
[DE84-002010] 05 p0704 N84-14620

COSTANZA, R.
Ecological models of the Mississippi Deltaic Plain Region: Data collection and presentation
[PB83-239012] 02 p0245 N84-11604

COSTANZO, D. J.
Mapping applications of video disc technology
[AD-A135842] 09 p1300 N84-18498
An experimental video disc for map and image display
[AD-A140215] 16 p2510 N84-26110

COSTARD, J.
Flight testing and real time data processing for development and integration of weapon systems
24 p3850 N84-34415

COSTAS, J. P.
A study of a class of detection waveforms having nearly ideal range-Doppler ambiguity properties
[AD-A132597] 05 p0669 N84-14401

COSTE, J.
New TPS calibration bench, and ejector tests
14 p2099 N84-23594

COSTELLO, D. J.
Undetected error probability and throughput analysis of a concatenated coding scheme
[NASA-CR-173963] 24 p3945 N84-34977

COSTELLO, D. J., JR.
Symbol synchronization for the TDRSS decoder
[NASA-CR-170603] 02 p0207 N84-11352
Automatic-repeat-request error control schemes
[NASA-CR-170605] 02 p0207 N84-11353
Permanence analysis of a concatenated coding scheme for error control
[NASA-CR-175345] 07 p0991 N84-16422
Performance analysis of the word synchronization properties of the outer code in a TDRSS decoder
[NASA-CR-173551] 15 p2319 N84-24921
Cut-off rate calculations for the outer channel in a concatenated cooling system
[NASA-CR-173612] 16 p2541 N84-26312
On the undetected error probability of a concatenated coding scheme for error control
[NASA-CR-173613] 16 p2541 N84-26313
Fast decoding techniques for extended single-and-double-error-correcting Reed Solomon codes
[NASA-CR-173617] 16 p2543 N84-26325
Fast decoding of a d(min) = 6 RS code
[NASA-CR-173620] 16 p2544 N84-26326
An extended d(min) = 4 RS code
[NASA-CR-173619] 16 p2544 N84-26327
BCH codes for large IC random-access memory systems
[NASA-CR-166549] 17 p2751 N84-27460
Reed Solomon codes for error control in byte organized computer memory systems
[NASA-CR-173803] 19 p3080 N84-29542
Probability of undetected error after decoding for a concatenated coding scheme
[NASA-CR-173837] 21 p3470 N84-31992

COSTELLO, F. A.
Optimization of thermal systems with sensitive optics, electronics, and structures
[NASA-CR-3745] 13 p1939 N84-22608

COSTER, A. J.
The temporal evolution of short scale striations in the heated ionosphere 05 p0706 N84-14631

COSTIGAN, R. R.
Response and performance of contingency airfield pavements containing stabilized material layers
[AD-A141466] 19 p2969 N84-28817

COSTILL, D. L.
Skeletal muscle metabolism of sea-level natives following short-term high-altitude residence
[AD-A139323] 15 p2380 N84-25284

COSTILLO, R. C.
Light scattering condensation nuclei, and air mass trajectories at Whiteface Mountain: Summer 1982
[PB84-104363] 08 p1188 N84-17742

COSTIN, L. S.
Microcrack damage model of brittle rock
[DE84-002088] 06 p0879 N84-15717
Dynamic fragmentation of ferroelectric ceramics using the torsional Kolsky bar
[DE84-003726] 09 p1289 N84-18415

COSTIS, C. E.
Three-dimensional laminar separation
[AD-A140378] 16 p2493 N84-25993

COSTOGUE, E. N.
Polycrystalline silicon study: Low-cost silicon refining technology prospects and semiconductor-grade polycrystalline silicon availability through 1988
[NASA-CR-173897] 22 p3662 N84-33213

COSTON, V. A.
Quality is not a dirty word
[DE83-012166] 03 p0385 N84-12510

COTE, C.
Satellite data relay and platform locating in oceanography. Report of the In Situ Ocean Science Working Group
[NASA-TM-85443] 12 p1860 N84-22116

COTE, P. J.
Electrical transport in low resistivity amorphous alloys
[AD-A136331] 09 p1282 N84-18372

COTE, S. M.
The VTX duty cycle developed from T-2C and TA-4J engine usage data
[AD-A133992] 05 p0631 N84-14149

COTELESSA, R. F.
Report of the Information Technology Workshop
[PB84-163203] 14 p2248 N84-24500

COTELLESSA, R. F.
Report of the Information Technology Workshop
[AD-A144212] 24 p3968 N84-35126

COTIN, F.
The ISPM solar-flare X-ray and cosmic gamma-ray burst experiment 09 p1262 N84-18238

COTTART, J. J.
Radial thermomechanical behaviour
[BLL-OA-TRANS-2639-(6196.3)]
04 p0533 N84-13503

COTTATELLUCCI, 0.
Economic study of long distance optical fibre links
[FUB-38-1982] 03 p0443 N84-12908

COTTER, S. J.
Methodology for the objective validation of model performance, with an application to atmospheric transport models
[DE83-015693] 06 p0875 N84-15693

COTTER, T. P.
Principles and prospects for micro heat pipes
[DE84-006035] 19 p3020 N84-29149

COTTON, F. A.
Theoretical and experimental studies of the electronic structure of the Mo3(Micro3-0)(Micro3-OR)(Micro-OR)3(OR)6 type of triangulo metal atom cluster compound
[AD-A133516] 06 p0915 N84-15951

COTTON, J. C.
Development of speech input/output interfaces for tactical aircraft
[AD-A136485] 09 p1255 N84-18193

COTTON, J. E.
Water resources data for New Hampshire and Vermont, Water Year 1982
[PB84-161868] 14 p2170 N84-24000

COTTON, R. V.
Study of potential standardization of video teleconferencing systems. Volume 2: Appendices
[AD-A132081] 04 p0522 N84-13431
Study of potential standardization of video teleconferencing systems, volume 1
[AD-A132080] 04 p0522 N84-13432

COTTON, W. R.
Model cloud relationships
[AD-A142690] 21 p3447 N84-31871

COUCH, R. H.
STEP electronic system design
08 p1109 N84-17214
An investigation of the existence of a surface water layer on aircraft radomes during simulated flight in heavy precipitation
[NASA-TM-85813] 19 p3003 N84-29035

COUCH, W. P.
Rubber-modified epoxy and glass laminates for application to naval ship structures
[AD-A133305] 06 p0798 N84-15204

COUFAL, H.
Optical probing of photoacoustic propagation for noncontact measurement of flows, temperatures and chemical compositions
[AD-A134129] 05 p0684 N84-14496
Photothermal spectroscopy using a pyroelectric thin film detector
[AD-A134291] 07 p0969 N84-16281
Photothermal spectroscopy of weakly absorbing samples using a thermal wave phase shifter
[AD-A142056] 19 p3104 N84-29721
Spectroscopy of adsorbates by transient laser calorimetry
[AD-A144473] 24 p3880 N84-34584
Photothermal analysis of thin films
[AD-A144472] 24 p3967 N84-35120
COUGNET, P. C.
The role of onboard intelligence and of orbital servicing in the increase of satellite lifetime 15 p2266 N84-24605
COULIBALY, S. P.
Optical properties of amorphous silicon: Some problem areas
[DE84-701201] 24 p3964 N84-35102
COULON, M.
Food preservation with gas 11 p1640 N84-20719
COULTER, D. R.
Chemical bonding technology for terrestrial photovoltaic modules
[NASA-CR-173460] 12 p1842 N84-22008
COULTER, G. A.
Experimental and computational modeling of rarefaction wave eliminators suitable for the BRL 2.44 m shock tube
[AD-A131894] 03 p0338 N84-12194
Reflected overpressure impulse on a finite structure
[AD-A137259] 11 p1653 N84-20792
COULTER, R. E.
Water mass classification in the North Atlantic using IR digital data and Bayesian decision theory
[AD-P003125] 16 p2534 N84-26266
COULTER, R. L.
Surface heat flux derived from sodar amplitude and frequency data: A comparison
[DE83-017930] 04 p0564 N84-13717
A comparison of frequency determination using real sodar data
[DE83-017942] 04 p0564 N84-13718
Rush field experiments: Growth and initial decay of the mixed layer over an autumn landscape
[DE84-001671] 07 p1040 N84-16743
Remote sensing of winds and turbulence above complex terrain during ASCOT-1980
[DE84-004231] 11 p1688 N84-21009
COULTER, S. M.
Boundary layer trip performance test on a 7-deg cone model at mach number 8
[AD-A139408] 14 p2146 N84-23860
COUNAS, G. J.
2.0 GHz to 4.0 GHz automated radiometer operation and service manual
[PB84-165158] 17 p2672 N84-27031
COUNCE, R. M.
An analysis of the interaction between a submerged jet and a receiver-diffuser in a reverse-flow diverter
[DE83-012593] 04 p0536 N84-13521
COUNTRYMAN, P.
WC user's guide
[DE84-009242] 20 p3274 N84-30784
COURANT, D.
Visual function and the definition of thresholds for exposure to laser radiation 22 p3632 N84-33019
COURANT, E. D.
Colliding-beam-accelerator lattice
[DE83-017875] 04 p0614 N84-14050
COURANZ, G. R.
Fault tolerant spaceborne computer 15 p2266 N84-24607
COURANZ, R.
PAS/NEB: A PASCAL language tool for the MCF (Military Computer Family)
[AD-P003535] 21 p3332 N84-31139
COURSEN, C. D.
G-38, 39 and 40: An artist's exploration of space 18 p2801 N84-27774
COURT, L.
Visual function and the definition of thresholds for exposure to laser radiation 22 p3632 N84-33019
COURTIN, J. P.
Failure mode prediction analysis using the Reliability Information Software (RIF) 09 p1295 N84-18463
COURTNEY, E. J.
Electronics Division research and development
[DE84-011024] 20 p3180 N84-30200
COURTNEY, J. C.
Engineering hot-cell windows for radiation protection
[DE83-014675] 03 p0356 N84-12319
COURTNEY, T. H.
Microstructural development and control in liquid phase sintering; processing, structures and properties of cold worked metal matrix composites
[AD-A143188] 22 p3555 N84-32509
COURTOIS, M. E. L.
First level integrated maintenance in weapons systems 06 p0771 N84-15054
COURTRIGHT, E. L.
Analytical characterization of coatings and thin overlayers
[DE84-011902] 21 p3371 N84-31389
COUSIN, B.
Optical data links for the STAR mission 24 p3905 N84-34730
COUSINS, M. D.
The effects of naturally-occurring propagation disturbances on discrete focused arrays
[AD-A132645] 05 p0670 N84-14404
Phenomenology of structured plasma in the ionosphere
[AD-A136396] 09 p1345 N84-18784
COUSINS, R.
The performance of 16000 wire mini-drift MWPC system 06 p0912 N84-15922
COUSTEIX, J.
Effects of unsteadiness on turbulent boundary layers 06 p0838 N84-15457
Three-dimensional wake of a swept wing 06 p0838 N84-15458
Computing the three dimensional boundary layer in a compressor 07 p0956 N84-16200
COUTIER, J. P.
Laminar convection with buoyancy in tube flows with a surrounding liquid medium 23 p3745 N84-33740
COUTIER, P.
The predicted impact of linear roof apertures on the energy performance of office buildings 16 p2514 N84-26133
COUTOIS, M.
Effects of integrated maintenance on the definitions of onboard equipments 03 p0316 N84-12068
COUTSIAS, E. A.
Virtual cathode oscillations
[AD-A135120] 06 p1228 N84-18027
COUTTS, G. W.
Review of the tandem mirror experiment-upgrade (TMX-U) machine-parameter-instrumentation system
[DE84-003243] 07 p1078 N84-17009
COUTURE, K. A.
Effects of appraisal salience on immediate and memory-based judgments
[AD-A140334] 16 p2538 N84-26295
COUTURIER, G. D.
Programmable signal processing device
[AD-D011109] 22 p3580 N84-32673
COUTURIER, P.
Measurement of macroscopic plasma parameters with a radio experiment: Interpretation of the quasi-thermal noise spectrum observed in the solar wind 03 p0470 N84-13096
COVERT, E. E.
Hot wire in low Reynolds number flow 08 p1237 N84-18087
Some unsteady aerodynamic characteristics of separated and attached flow
[AD-A137070] 10 p1422 N84-19300
On the stability of flight vehicles in the low Reynolds number non-linear regime
[AD-A138379] 12 p1773 N84-21559
On the stability of flight vehicles in the low Reynolds number non-linear regime
[AD-A140008] 15 p2258 N84-24561
COWAN, A. M.
A study of satellite radar altimeter operation over ice-covered surfaces
[ESA-CR(P)-1810] 08 p1179 N84-17683
COWAN, M.
A 2-MJ staged explosive generator
[DE83-013677] 01 p0072 N84-10474
COWAN, R.
Development of thermionic integrated circuits for applications in hostile environments
[DE84-011374] 21 p3393 N84-31533
COWGILL, M. G.
Creep properties of modified 9 Cr-1 Mo steel
[DE84-003174] 07 p0976 N84-16328
COWING, T.
Passive-solar performance: Summary of 1981-1982 class B results
[DE83-009407] 03 p0405 N84-12650
COWLES, B. A.
Low strain, long life creep fatigue of AF2-1DA and INCO 718
[NASA-CR-167989] 01 p0042 N84-10268
COWLES, J. R.
Aromatic biosynthesis in pine tissues 09 p1357 N84-18866
COWLEY, C. R.
Cluster analysis of rare earths in stellar spectra 09 p1410 N84-19222
COWLEY, P. J.
Management and display of data analysis environments for large data sets
[DE84-001414] 04 p0616 N84-14069
COWLS, R. S.
Space station needs, attributes, and architectural options: Space station program cost analysis
[NASA-CR-173696] 18 p2803 N84-27790
COWN, B. J.
Antenna pattern measurements to characterize the out-of-band behavior of reflector antennas
[AD-A136199] 09 p1304 N84-18525
COWPER, G. R.
Capabilities of the NRCC/NAE flight impact simulator facility
[AD-A130849] 06 p0784 N84-15136
COWPERTHWAITE, M.
Lagrange gage studies of nonideal explosives containing NH-4NO-3
[AD-A132760] 05 p0661 N84-14347
Characterization of initiation and detonation by Lagrange gage techniques
[DE84-002462] 07 p0981 N84-16357
COWPERTHWAITE, N. A.
Splash and spray from road vehicles and associated topics: A bibliography
[CAR-8425] 21 p3398 N84-31557
COX, A. N.
Role of the radiation pressure gradient in giant and supergiant star evolution
[DE84-001715] 05 p0783 N84-15007
Stability of the low degree 5 minute solar oscillations
[DE84-003786] 08 p1246 N84-18143
Constraints on stellar evolution from pulsations
[DE84-003787] 09 p1415 N84-19261
Some investigations about the Carson opacities
[DE84-003785] 09 p1415 N84-19262
Some masses for population 1 and 2 cepheids
[DE84-014032] 22 p3677 N84-33311
COX, A. R.
Application of rapidly solidified superalloys
[AD-A139350] 14 p2127 N84-23755
COX, B.
Review of properties of various types of calorimeters: High luminosity and high energy 06 p0911 N84-15917
High energy electromagnetic shower position measurement by a fine grained scintillation hodoscope 06 p0912 N84-15928
A measurement of the response of an SCG1-C scintillation glass shower detector to 2-17.5 GeV positrons 06 p0913 N84-15930
Measurement of the energy resolution and related properties of an SCG1-C scintillation glass shower counter array for 1 to 25 GeV positrons
[DE84-007246] 14 p2148 N84-23871
Measurement of electromagnetic shower position and size with a saturated avalanche tube hodoscope and a fine grained scintillation hodoscope
[DE84-007247] 15 p2337 N84-25032
COX, C. M.
Fuel Systems for compact fast space reactors
[DE84-006545] 14 p2223 N84-24343
COX, C. R.
State of the art: Design for noise II 19 p3099 N84-29683
COX, C. S.
Magnetic anomalies of the ocean
[AD-A139602] 15 p2373 N84-25234
COX, D. P.
The time development of a blast wave with shock heated electrons
[NASA-CR-175364] 08 p1156 N84-17529
Self-regulating galaxy formation. Part 1: HII disk and Lyman alpha pressure
[NASA-CR-173592] 16 p2577 N84-26535
COX, D. W.
A conceptual design study for the secondary mirror drive of the shuttle infrared telescope facility (SIRTF)
[NASA-CR-166562] 10 p1501 N84-19813
COX, E.
Engineering services in support of the AFGL sounding rocket program
[AD-A131929] 03 p0340 N84-12211
COX, F. W.
Vehicle-emission characteristics using mechanically emulsified alcohol/diesel fuels
[DE83-016012] 03 p0406 N84-12656
Efficient algorithms for calculating shock spectra on general purpose computers 10 p1509 N84-19878

COX, G. F. N.
Stress measurements in ice
[AD-A133906] 06 p0861 N84-15609
Electromagnetic properties of sea ice
[AD-A140330] 16 p2534 N84-26268
Mechanical properties of multi-year sea ice. Phase 1: Test results
[AD-A144132] 24 p3935 N84-34907
Mechanical properties of multi-year sea ice. Testing techniques
[AD-A144431] 24 p3935 N84-34908
COX, J. E.
Program Manager's Support System (PMSS): An update
[AD-P002825] 13 p2062 N84-23370
COX, J. V.
An investigation of the indirect boundary element method in One- and two-dimensional elastostatics
[AD-A133142] 06 p0900 N84-15843
COX, K. D.
Twelfth Transducer Workshop
[AD-A137304] 11 p1657 N84-20809
COX, L.
Study on critical assessment of IR CCD arrays for spaceborne reflected and thermal IR imagers
[ESA-CR(P)-1881] 17 p2616 N84-26744
COX, M.
Squeezable electron tunneling junctions
[AD-A132884] 05 p0754 N84-14946
Ocean modeling on the CYBER 205 at GFDL
10 p1559 N84-20212
COX, N. W.
Molecular beam epitaxy of HgCdTe
[AD-A141574] 19 p3110 N84-29761
COX, P. G.
Educational aids in aircraft combat survivability
[AD-A139090] 13 p1931 N84-22556
COX, P. M.
Fuselage torsion of a CT4 aircraft
[AD-A142753] 21 p3328 N84-31114
An assembly language program for calculating random decrement signatures
[AD-A143908] 23 p3815 N84-34195
COX, R. L.
Flexible radiator system: Executive summary
[NASA-CR-171766] 11 p1623 N84-20624
COX, R. P.
ERS synthetic aperture radar design
23 p3783 N84-33989
The active microwave instrument for ERS-1
23 p3783 N84-33990
Verification techniques for satellite-borne synthetic aperture radars 23 p3783 N84-33992
COX, S. K.
Design and verification of a cloud field optical simulator
[NASA-CR-173274] 07 p1035 N84-16717
A laboratory investigation of the reflective properties of simulated, optically thick clouds
[NASA-CR-175362] 08 p1190 N84-17755
A laboratory investigation of the reflective properties of simulated, optically thick clouds
[NASA-CR-175158] 10 p1578 N84-20336
Design and verification of a cloud field optical simulator 10 p1578 N84-20339
COY, J. J.
Special cases of friction and applications
[NASA-TM-83523] 02 p0229 N84-11500
Transmission efficiency measurements and correlations with physical characteristics of the lubricant
[NASA-TM-83740] 20 p3195 N84-30293
Summary of drive-train component technology in helicopters
[NASA-TM-83726] 20 p3195 N84-30294
COY, L.
The vertical propagation of internal gravity waves in a compressible atmosphere 10 p1538 N84-20080
COYLE, J. M.
Adaptive finite element methods for parabolic partial differential equations
[NASA-CR-174490] 03 p0417 N84-12727
COZART, D. L.
An interpolation and compaction technique for gridded data
[AD-A137107] 10 p1569 N84-20276
COZZOLONGO, J. V.
Computer graphics in aerodynamic analysis
12 p1873 N84-22206
CRABTREE, G. W.
Neutron-scattering studies of magnetic superconductors
[DE84-000393] 04 p0614 N84-14054
CRABTREE, R. H.
Hydrogen storage by molecular polyhydrides
[AD-A136431] 09 p1278 N84-18346
CRACKNELL, A. P.
Satellite remote sensing, environmental monitoring and the offshore oil and gas industries
03 p0398 N84-12603
Applications for fisheries 08 p1176 N84-17663
CRAEMER, W.
Study of Attitude Control and Guidance System (ACGS) for orbit change stage
[ESA-CR(P)-1797] 08 p1120 N84-17285
CRAFT, B. D.
Diffusion properties and phase transitions of the metalic glass a-Zr2-PdH-x
[DE83-016626] 05 p0660 N84-14341
CRAFT, C. M.
A survey of the state-of-the-art in aging of electronics with application to nuclear-power-plant instrumentation
[DE83-012696] 01 p0073 N84-10478
CRAFT, W. J.
Refined test methods in evaluating brittle material strengths
[AD-A133596] 06 p0861 N84-15610
CRAFTS, C. C.
Ampule tests to simulate glass corrosion in ambient temperature lithium batteries, volume 2
[DE84-014330] 22 p3589 N84-32732
CRAFTS, R. E.
Ada (trademark) for business and other non-DOD applications
[AD-P003425] 20 p3271 N84-30757
CRAIDON, C. B.
User's guide for a computer program for calculating the zero-lift wave drag of complex aircraft configurations
[NASA-TM-85670] 02 p0271 N84-11774
CRAIG, H. M.
Combustor liner construction
[NASA-CASE-LEW-14035-1] 15 p2260 N84-24577
CRAIG, J.
Coordinated research program in pulsed power physics
[AD-A129554] 01 p0138 N84-10905
Temperature, concentration, and size measurements in turbulent reactive flows 13 p1943 N84-22633
Coordinated research program in pulsed power physics
[AD-A139321] 14 p2142 N84-23843
CRAIG, J. L.
Electroluminescent formation lights for HC-130 P/N special operations. 1: Flight test candidates
[AD-A137662] 11 p1606 N84-20516
CRAIG, J. M.
Medium- and high-pressure sonic leak pinpointing
[PB83-228361] 01 p0086 N84-10557
CRAIG, L. J.
The 60-GHz gyrotron development program
[DE83-012922] 02 p0214 N84-11402
60 GHz gyrotron development program
[DE84-006606] 13 p1987 N84-22899
CRAIG, M. K.
Shuttle booster separation aerodynamics
01 p0019 N84-10123
Shuttle launch debris: Sources, consequences, solutions 01 p0019 N84-10124
CRAIG, R. R., JR.
Multishaker modal testing
[NASA-CR-170952] 06 p0847 N84-15521
Digital multishaker modal testing
[NASA-CR-170951] 06 p0847 N84-15522
CRAIN, W. K.
Space Shuttle external interference heating test
[AD-A131688] 03 p0341 N84-12215
CRAINE, E. R.
RIMSTAR: Rapid image scanning technology and archiving 18 p2843 N84-28055
CRAMER, B. S.
Geodesic cone antenna
[AD-P003408] 19 p3015 N84-29112
CRAMER, J. G.
University of Washington superconducting-booster project
[DE83-015689] 03 p0434 N84-12846
CRAMER, R. G.
An investigation of experimental techniques for obtaining particulate behavior in metallized solid propellant combustion 13 p1947 N84-22659
An investigation of experimental techniques for obtaining particulate behavior in metallized solid propellant combustion
[AD-A141044] 18 p2808 N84-27826
CRAMER, S. D.
Acidic deposition and the corrosion and deterioration of materials in the atmosphere: A bibliography, 1880 - 1982
[PB83-236091] 01 p0047 N84-10302
CRAMER, S. M.
Modeling material failure with a vectorized routine
10 p1561 N84-20226
CRAMPTON, S. B.
Atomic hydrogen maser investigations of hydrogen atom interactions from 4 K to 12 K
[AD-A134917] 08 p1165 N84-17582
CRANDALL, D. H.
Electron-ion collisions
[DE83-017211] 03 p0437 N84-12867
CRANDALL, K. R.
Effects of vane-tip geometry on the electric fields in radio-frequency quadrupole linacs
[DE83-013214] 01 p0143 N84-10937
RFQ radial matching sections and fringe fields
[DE84-011408] 20 p3295 N84-30920
CRANDALL, M. G.
Developments in the theory of nonlinear first-order partial differential equations
[AD-A138020] 12 p1893 N84-22332
A remark on semilinear perturbations of abstract parabolic equations
[AD-A141695] 19 p3087 N84-29593
Convergence of difference approximations of quasilinear evolution equations
[AD-A144694] 24 p3953 N84-35032
CRANDELL, T.
Understanding picture-text instructions
[AD-A139746] 15 p2382 N84-25287
CRANE, C. B.
Combustibility of electrical wire and cable for rail rapid transit systems. Volume 2: Toxicity
[DOT-TSC-UMTA-83-4.2-VOL-2]
02 p0217 N84-11421
CRANE, C. H.
Geoscience-related research needs for geothermal energy technology
[DE84-001837] 05 p0704 N84-14622
CRANE, C. R.
Inhalation toxicology. 3: Evaluation of thermal degradation products from aircraft and automobile engine oils, aircraft hydraulic fluid, and mineral oil
[AD-A133221] 06 p0889 N84-15778
CRANE, R. G.
Pilot study and evaluation of a SMMR-derived sea ice data base
[NASA-CR-175255] 22 p3614 N84-32896
CRANE, R. L.
Ultrasonic inspection of composite materials
[AD-D011210] 24 p3911 N84-34768
CRANE, R. M.
Rubber-modified epoxy and glass laminates for application to naval ship structures
[AD-A133305] 06 p0798 N84-15204
CRANFIELD, B. A.
Development of flame retardant, low aggressivity cables 11 p1723 N84-21239
CRANFILL, C. W.
The MIXPAC: A subroutine package for calculating equations of state for equilibrium mixtures of materials
[DE84-002302] 05 p0730 N84-14796
CRANNELL, C. J.
A balloon-borne high-resolution spectrometer for observations of gamma-ray emission from solar flares
[NASA-TM-86069] 09 p1416 N84-19266
Expressions to determine temperatures and emission measures for solar X-ray events from GOES measurements
[NASA-TM-86142] 22 p3679 N84-33325
CRASEMANN, B.
Relativistic calculations and measurements of energies, Auger rates and lifetimes
[AD-A130094] 01 p0141 N84-10924
Relativistic calculations and measurements of energies, Auger rates, and lifetimes
[AD-A143423] 22 p3663 N84-33220
CRAVEN, J. D.
Distributions of aurora and ionospheric currents observed simultaneously on a global scale
[AD-A140615] 17 p2727 N84-27360
CRAWFORD, D. B.
Effect of control logic modifications on airstart performance of F100 engine model derivative engines in an F-15 airplane
[NASA-TM-85900] 20 p3130 N84-29879
CRAWFORD, J. D.
Hopf bifurcation and the beam-plasma instability
[DE84-006243] 15 p2412 N84-25480
CRAWFORD, M. E.
Finite element analysis of incompressible turbulent backstep flow with heat transfer
[DE84-003101] 07 p1003 N84-16502
CRAWFORD, M. K.
Detection of shocked atomic gas in the Kleinmann-Low nebula
[NASA-TM-85967] 16 p2574 N84-26523

CRAWLEY, A. B.
Evaluation of Chem-Crete high strength modified asphalt concentrate
[PB84-105089] 08 p1172 N84-17636
CRAWLEY, E. F.
Optimal mistuning for enhanced aeroelastic stability of transonic fans
[NASA-CR-173179] 07 p0953 N84-16180
General requirements for Shuttle flight experiments 08 p1110 N84-17221
CREAR, D. A.
The organic geochemistry of deep ground waters and radionuclide-partitioning experiment: Under hydrothermal conditions
[DE83-015784] 04 p0554 N84-13651
CREASON, T. L.
V/STOL model fan stage rig design report
[NASA-CR-174688] 14 p2106 N84-23629
CREED, D.
Photogalvanic cells driven by electron transfer quenching of excited singlet states
[DE84-009099] 15 p2330 N84-24991
CREEDON, J. F.
Evaluation of a total energy-rate sensor on a transport airplane
[NASA-TP-2212] 03 p0332 N84-12164
CREEDON, R. L.
Low-activation fusion-reactor design studies
[DE83-017688] 04 p0608 N84-14014
CREEL, J. B.
Cohesion in the US military
[AD-A140828] 17 p2747 N84-27439
CREEL, T. R., JR.
Correlations of supersonic boundary-layer transition on cones including effects of large axial variations in wind-tunnel noise
[NASA-TP-2229] 08 p1157 N84-17534
CRELLIN, E.
Derivation and combination of impedance matrices for flexible satellites
[ESA-STR-209] 12 p1778 N84-21604
CREMA, L. B.
Some trends in airship technology developments
[AGARD-R-717] 03 p0314 N84-12050
CREMER, R. L.
Cabin safety subject index
[AD-A140409] 16 p2445 N84-25683
CREMERS, A. B.
Problem-oriented specification of concurrent algorithms 09 p1400 N84-19145
CRENSHAW, K. R.
Limited performance and flying qualities validation of the SGM 2-37 powered sailplane
[AD-A131445] 02 p0178 N84-11165
Airborne laboratory measurement of aircraft performance and stability and control for light aircraft. Supplement
[AD-A131457] 02 p0181 N84-11179
CREPEAU, P. J.
Generalized list detection for coded MFSK/FH signaling on ading and jamming channels
[AD-A130199] 01 p0063 N84-10414
List metric detection of coded FH/MFSK (Frequency-Hopped Multiple Frequency Shift Keying) in a tone jamming environment
[AD-A142358] 20 p3174 N84-30153
CRESCENTI, G. H.
Analysis of permafrost depths on Mars 15 p2426 N84-25569
CRETELLA, M. C.
Defects in high speed growth of EFG silicon ribbon 18 p2939 N84-28642
CREUTZ, M.
Progress in lattice gauge theory
[DE83-014055] 03 p0436 N84-12862
Lattice gauge theories
[DE83-013114] 06 p0910 N84-15906
Monte Carlo simulation of the microcanonical ensemble
[DE84-010880] 20 p3295 N84-30923
CREUTZBERG, A. G.
Project Waterhole III 05 p0640 N84-14210
CREUTZBERG, F.
Sequential barium releases to study tangential versus rotational discontinuities in auroral arcs 05 p0640 N84-14215
CREWS, J. H., JR.
Failure analysis of a graphite/epoxy laminate subjected to bolt bearing loads
[NASA-TM-86297] 22 p3544 N84-32436
CRIM, F. F.
Rotational energy transfer in highly vibrationally excited hydrogen fluoride and deuterium fluoride
[AD-A133102] 05 p0745 N84-14892
Collisional energy transfer in highly vibrationally excited molecules
[AD-A140772] 17 p2765 N84-27558
CRIPPS, B. E.
Recent developments in the measurement of time-dependent pressures 14 p2100 N84-23601
CRISP, D.
Radiative forcing of the Venus mesosphere 16 p2580 N84-26549
CRISSMAN, J. M.
Relationship between morphology and mechanical properties of ultra high molecular weight polyethylene
[PB83-240960] 02 p0202 N84-11317
Mechanical behavior of ultra high molecular weight polyethylene
[PB84-175538] 16 p2473 N84-25851
CRIST, E. P.
Understanding and utilization of Thematic Mapper and other remotely sensed data for vegetation monitoring
[E84-10150] 16 p2508 N84-26098
Thematic Mapper spectral dimensionality and data structure 20 p3209 N84-30387
CRIST, W. K.
Exploration and drilling for geothermal heat in the Capital District, New York
[PB84-153162] 14 p2173 N84-24016
CRISTESCU
Investigation of criteria enabling a two-dimensional grid to evolve while minimizing errors
[CETIM-100980] 21 p3467 N84-31982
CRISTI, R.
Bayes smoothing algorithms for segmentation of images modelled by Markov random fields
[AD-A133966] 05 p0734 N84-14817
Application of the Gibbs distribution to image segmentation
[AD-A133406] 06 p0901 N84-15850
Model reference adaptive control systems: The hybrid approach 13 p2031 N84-23169
CRISWELL, C. W.
Chronology, morphology and stratigraphy of pumiceous pyroclastic-flow (ignimbrite) deposits from the eruption of Mount St. Helens on 18 May 1983 13 p2080 N84-23476
CRIVELLARI, L.
Use of high resolution IUE spectra of MG 2 in cool stars to probe the local interstellar medium 24 p3973 N84-35156
CROCETTI, C. P.
Air Force Technical Objective Document (TOD) C(3)I (command, control, communications and intelligence) - fiscal year 1985
[AD-A141276] 18 p2829 N84-27961
CROCHET, M.
Techniques for studying gravity waves and turbulence: Vertical wind speed power spectra from the troposphere and stratosphere obtained under light wind conditions 17 p2688 N84-27120
Comparison of simulation and measurement techniques for continuous waves and pulses
[SNIAS-841-422-103] 21 p3388 N84-31501
CROCKER, D. A.
Battle damage repair of birdstrike resistant laminated transparencies
[AD-P003185] 17 p2589 N84-26598
A triangulation technique for obtaining deflections of aircraft transparencies during bird impact testing
[AD-P003220] 17 p2595 N84-26633
CROCKER, M. D.
Benchmarking the join operations of relational database machines
[AD-A132312] 04 p0584 N84-13861
CROCKER, M. J.
Light aircraft sound transmission study
[NASA-CR-174540] 01 p0139 N84-10910
CROCKETT, T. W.
Modelling algorithm execution time on processor arrays
[NASA-CR-172289] 08 p1211 N84-17899
CROFT, M. C.
High pressure electron resonance studies of electronic, magnetic, and structural phase transitions
[DE84-008814] 18 p2941 N84-28653
CROFT, W. L.
Preliminary designs for modifications to the X-ray source and beam monitor of the Marshall Space Flight Center's X-ray Calibration Facility 06 p0928 N84-16032
CROFTS, A. R.
Photosynthesis in intact plants
[DE83-016045] 02 p0264 N84-11740
CROMBEZ, G.
Completely continuous multipliers from L sub 1 (G) into L sub infinity (G) 22 p3636 N84-33047
CROMBIE, D. D.
Prediction of multipath fading on terrestrial microwave links at frequencies of 11 GHz and greater 15 p2324 N84-24953
CROMBIE, M. A.
Registration of a LANDSAT image to DTM (Digital Terrain Matrix): An error analysis
[AD-A141766] 19 p3041 N84-29297
CROMWELL, N.
Mobile radio alternative systems study. Volume 2: Terrestrial
[NASA-CR-168063] 01 p0061 N84-10403
CRONA, L.
Information technique 1982: Underwater technique
[FOA-C-30296-E1,E2,E3] 07 p1085 N84-17058
CRONAUER, V. T.
Command flight path display, phase 1 and 2
[AD-A140870] 17 p2611 N84-26711
CRONE, H. D.
The response of rats to cutaneous dosing with trichothecene mycotoxins
[MRL-R-902] 08 p1197 N84-17803
CRONIN, C. E.
Instrumentation techniques in sea level test facilities 16 p2453 N84-25727
CRONIN, D. H.
Effect of bandwidth and interference rejection on the spectrum efficiency of land mobile radio systems
[PB84-158369] 17 p2654 N84-26978
CRONIN, G. R.
Large plate CdTe synthesis by sealed vessel transport
[AD-A134588] 07 p1081 N84-17027
Large plate CdTe synthesis by sealed vessel transport
[AD-A137514] 10 p1588 N84-20409
CRONIN, M. J.
Primary electric power generation systems for advanced-technology engines 01 p0010 N84-10060
CRONIN, S. E.
Nitrite reduction in paracoccus halodenitrificans: Evidence for the role of a cd-type cytochrome in ammonia formation
[NASA-TM-85883] 10 p1545 N84-20125
CROOKE, M.
Integrated circuit failure mechanism detected by IMMA 06 p0815 N84-15305
Environmental factors as a source of failure in integrated circuits 08 p1168 N84-17604
CROOKE, R. C.
Panel 2A: Offshore oil and gas technology assessment 18 p2866 N84-28196
CROOKER, N. U.
Solar cycle variations of the solar wind 03 p0469 N84-13089
Patterns of magnetic field merging sites on the magnetopause 16 p2572 N84-26511
Characteristics of the magnetospheric source of interplanetary energetic particles 16 p2573 N84-26512
Magnetopause merging site asymmetries 16 p2573 N84-26513
Magnetic field draping against the dayside magnetopause 16 p2573 N84-26514
CROOKER, T. W.
Draft standard method of test for plane-strain stress-corrosion-cracking resistance of metallic materials in marine environments
[AD-A139752] 15 p2297 N84-24785
CROOM, C. C.
An experimental and theoretical investigation of deposition patterns from an agricultural airplane
[NASA-TP-2348] 23 p3689 N84-33379
CROONQUIST, A. P.
Acoustic rotation control
[NASA-CASE-NPO-15689-1] 13 p2039 N84-23233
CROSBIE, R. E.
Simulation algorithms for parallel processes
[CSC-1023/00-FIN] 18 p2921 N84-28527
CROSBIE, R. J.
A servo controlled rapid response anti-g valve
[AD-A134042] 05 p0715 N84-14687
CROSBY, W.
Studies in a transonic rotor aerodynamics and noise facility
[NASA-CR-166588] 22 p3538 N84-32399
CROSBY, W. A.
Captive trajectory system test planning information for AEDC supersonic wind tunnel (A) and hypersonic wind tunnels (B) and (C)
[AD-A136439] 09 p1259 N84-18217
CROSLEY, D. R.
Laser probes of propellant combustion chemistry
[AD-A140767] 17 p2628 N84-26814
CROSS, D. C.
Microcomputer aided tracking (MCAT)
[AD-A130651] 01 p0065 N84-10426

Mirror antenna dual-band lightweight mirror design
[AD-A136113] 12 p1806 N84-21776

CROSS, G. L.
Four-dimensional satellite data assimilation
[AD-A139904] 15 p2372 N84-25228

CROSS, I. M.
The 27th AFOSR (Air Force Office of Scientific Research) chemical and atmospheric sciences program review (27th)
[AD-A133718] 05 p0703 N84-14612

CROSS, J. B.
A low Earth orbit molecular beam space simulation facility 24 p3863 N84-34483

CROSS, J. K.
The Ada (Trademark) run-time environment
[AD-P003558] 21 p3335 N84-31162

CROSS, J. L.
In-flight acoustic testing techniques using the YO-3A Acoustic Research Aircraft
[NASA-TM-85895] 10 p1427 N84-19334
NASA rotor system research aircraft flight-test data report: Helicopter and compound configuration
[NASA-TM-85843] 22 p3535 N84-32381

CROSS, L.
FOD (Foreign Object Damage) generation by aircraft tires
[AD-A133319] 06 p0786 N84-15146

CROSS, L. E.
Targeted basic studies of ferroelectric and ferroelastic materials for piezoelectric transducer applications
[AD-A132136] 04 p0526 N84-13461
Targeted basic studies of ferroelectric and ferroelastic materials for piezoelectric transducer applications
[AD-A132262] 04 p0612 N84-14043
Research on ferroelectric materials for millimeter wave application
[AD-A137128] 10 p1588 N84-20405
Ferroelectric tungsten bronze bulk crystals and epitaxial thin films for electro-optic device applications
[AD-A138693] 13 p2046 N84-23278
Temperature-compensated piezoelectric materials
[AD-A139279] 14 p2242 N84-24460

CROSSMAN, F.
Structural composites technology working group report IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A137331] 10 p1504 N84-19829

CROSSMAN, F. W.
Fracture mechanics of sub-laminate cracks
[AD-A130782] 01 p0096 N84-10623
A study of stiffness, residual strength and fatigue life relationships for composite laminates
[NASA-CR-172211] 20 p3146 N84-29978

CROSTACK, H. A.
Investigations of the mechanical behavior of spot welded joints by means of acoustic emission analysis
[DE84-003041] 07 p1014 N84-16574

CROSWELL, W. F.
Hoop/column antenna RF verification model. Volume 2: Analysis and correlation
[NASA-CR-172413] 21 p3382 N84-31462
Hoop/column antenna: RF verification model. Volume 1: Test results
[NASA-CR-172412] 21 p3382 N84-31463

CROTTY, G. T.
Characterization of grain boundaries in silicon
[NASA-CR-173459] 12 p1912 N84-22460

CROUCH, P. E.
Linear structures in bilinear systems
[RR-250] 20 p3284 N84-30852

CROUCH, R. K.
Characterization of the general purpose research furnace for low-G directional solidification experiments
[NASA-TM-85718] 04 p0489 N84-13211
Effect of space exposure on pyroelectric infrared detectors (A0135) 15 p2278 N84-24679

CROUCH, T. W.
Lateral dispersion of a high-energy ion beam in a scattering medium
[UTIAS-278] 14 p2222 N84-24331

CROUSE, D. J.
Synthesis of N-substituted silaneamines: Monomeric precursors of silicon carbide-nitride fibers
06 p0929 N84-16033

CROW, J. T.
Applied-B ion diode experiments on PBFA 1
[DE83-017792] 03 p0447 N84-12942
Diagnosing the ion beam on the applied-B diode
[DE83-017822] 03 p0447 N84-12943
Amplion hybrid diodes on hydramite and PBFA-1
[DE83-017824] 03 p0448 N84-12945
Hybrid ion diode theory and computations
[DE84-000102] 04 p0610 N84-14029

CROW, J. T. C.
The new algortihm for symbolic network analysis
21 p3390 N84-31509

CROW, L. H.
An empirically developed Fourier series model for describing software failures
[AD-A132739] 05 p0729 N84-14787

CROW, R. M.
Comparison of seam types
[AD-A137383] 10 p1466 N84-19574

CROWE, C. R.
Bending fatigue of a particulate SiC/Al 6061 metal matrix composite
[AD-A134108] 05 p0653 N84-14293

CROWE, D. W.
On the equidecomposability of a regular triangle and a square of equal areas
[AD-A139270] 14 p2213 N84-24290

CROWE, R. A.
Design issues in the GCF Mark 4 development
04 p0520 N84-13415

CROWELL, J. E.
Chemical modification of surfaces: The effect of potassium on the chemisorption of molecules on transition metal crystal surfaces
[DE84-008345] 14 p2244 N84-24473

CROWLEY, D. A.
Probabilistic assessment of weld quality in steel piping under seismic conditions
[DE83-012053] 01 p0091 N84-10591

CROWLEY, F. A.
Geokinetic effects on motion sensitive instrumentation, systems and facilities
[AD-A142682] 20 p3241 N84-30575

CROWLEY, J.
Effects of long-term low-level radiofrequency radiation exposure on rats. Volume 4: Open-field behavior and corticosterone
[AD-A137743] 12 p1863 N84-22141
Effects of long-term low-level radiofrequency radiation exposure on rats. Volume 6: Hematological, serum chemistry, thyroxine, and protein electrophoresis evaluations
[AD-A141124] 19 p3063 N84-29434

CROWLEY, J. L.
Efficiency terms for Stirling-engine systems
[DE83-014670] 02 p0229 N84-11505
A representation for shape based on peaks and ridges in the difference of low-pass transform
[AD-A133299] 06 p0901 N84-15849
Machine vision: Three generations of commercial systems
[AD-A139037] 13 p2024 N84-23123
A computational paradigm for three dimensional scene analysis
[AD-A143963] 23 p3816 N84-34196

CROWLEY, T. J.
Modeling glacial climates
[NASA-TM-86106] 15 p2371 N84-25221

CRUCE, A. C.
Simulation applied to the avionics system testing in the F/A-18 24 p3849 N84-34409

CRUICKSHANK, A. M.
The Gordon Research Conference on Holography and Optical Information Processing
[AD-A129137] 02 p0293 N84-11923

CRUICKSHANK, J. M.
A frequency stabilization and trigger control unit for hybrid TEA-CO2 lasers
[AD-A132247] 04 p0540 N84-13552

CRUIKSHANK, D. P.
The plumes of IO: A detection of solid sulfur dioxide particles
[NASA-CR-175414] 12 p1922 N84-22523

CRUM, L. A.
An acoustic levitation technique for the study of nonlinear oscillations of gas bubbles in liquids
[AD-A132858] 05 p0681 N84-14477
Mie scattering as a technique for the sizing of air bubbles
[AD-A142737] 21 p3498 N84-32170

CRUMB, C. B.
Integrated Application of Active Controls (IAAC) technology to an advanced subsonic transport project: Current and advanced act control system definition study, volume 1
[NASA-CR-165631-VOL-1] 19 p2967 N84-28802
Integrated Application of Active Controls (IAAC) technology to an advanced subsonic transport project: Current and advanced act control system definition study. Volume 2: Appendices
[NASA-CR-165631-VOL-2] 19 p2967 N84-28803
Integrated Application of Active Controls (IAAC) technology to an advanced subsonic transpot project-demonstration act system definition
[NASA-CR-165920] 19 p2967 N84-28804

CRUMP, C. E.
Validation of the military entrance physical strength capacity test
[AD-A142169] 19 p3066 N84-29451

CRUMPLER, L. S.
Modeling Io volcanism: Maximum volcanic temperatures, depths of melting and magma composition 13 p2073 N84-23436
10: Models of volcanism and interior structure
17 p2777 N84-27634

CRUSER, P. E.
Detailed design and implementation of a multiprogramming operating system for sixteen-bit microprocessors
[AD-A138083] 12 p1880 N84-22257

CRUZ, J. B., JR.
Control strategies for complex systems for use in aerospace avionics
[AD-A135072] 08 p1104 N84-17179

CRUZ, M. A. C.
INTAC: A computer-aided test interface
[INPE-2792-TDL/138] 04 p0524 N84-13446
INTAC: Digital and analog circuit test language
[INPE-2764-PRE/338] 08 p1211 N84-17898

CSEPREGI, L.
Technology of thin silicon foils in respect to the fabrication of monolithic integrated sensors
[BMFT-FB-T-83-089] 02 p0206 N84-11347
Fabrication of structures on semiconductors by X-rays: Comparison and optimization of mask technologies
[BMFT-FB-T-83-071] 02 p0300 N84-11968

CSONGOR, E.
Article examines presence of KR-85 in atmosphere
14 p2174 N84-24021
Measurements concerning increase of atmospheric radiokrypton content 14 p2174 N84-24022
Measurements of atmospheric Kr-85 concentration at ATOMKI from 1966 to 1977 14 p2174 N84-24023

CUCINOTTA, F.
Dose in critical body organs in low Earth orbit
[NASA-TM-85778] 12 p1867 N84-22169
Human exposure in low Earth orbit
[NASA-TP-2344] 19 p3070 N84-29479

CUDAK, C.
Deflagration to shock to detonation transition of energetic propellants
[AD-A144469] 24 p3890 N84-34632

CUDDIHY, E. F.
Chemical bonding technology for terrestrial photovoltaic modules
[NASA-CR-173460] 12 p1842 N84-22008
Breakdown of organic insulators
22 p3583 N84-32694
Photovoltaic module encapsulation design and materials section, volume 2
[NASA-CR-173902] 23 p3786 N84-34013

CUELLAR, J. P., JR.
Effects of micronic filtration on turbine engine lubricant deposition
[AD-A141802] 19 p2999 N84-29007
Effects of wear metal on lubricant deposition
[AD-A142027] 19 p2999 N84-29008
Development of accelerated fuel-engine qualification procedures
[AD-A143845] 23 p3693 N84-33406

CUGIER, H.
Analysis of MgII lines in algol
15 p2422 N84-25547
A study of mass accretion in Algol from high resolution IUE spectra 24 p3980 N84-35213

CUI-JUAN, Z.
The relation between the gravity current in the atmospheric boundary layer and local heavy rainfall
[AD-A137193] 10 p1539 N84-20086

CUIE, L.
Flow-field matrix solution for direct problem of flow along S1 relative stream surface employing non-orthogonal curvilinear coordinates and corresponding non-orthogonal velocity components
[AD-A131031] 01 p0079 N84-10512

CUKAUSKAS, E. J.
Method for making Josephson junctions with contamination-free interfaces utilizing a ZNO contact insulator
[AD-D011057] 22 p3580 N84-32671

CULBERTSON, C. R.
Experimental apparatus for studying moving thermoacoustic sources
[AD-A134517] 07 p1010 N84-16549

CULICK, F. E. C.
Linear theory of pressure oscillations in liquid fueled Ramjet engines
[AD-A130882] 01 p0011 N84-10071
Linear theory of pressure oscillations in liquid-fueled ramjet engines
[AD-A131610] 01 p0012 N84-10075

Mechanisms of exciting pressure oscillations in ramjet engines
[AD-A133977] 05 p0631 N84-14150
Numerical analysis of an unsteady shock in an inlet diffuser 13 p1951 N84-22686

CULIK, J. S.
Process Research On Polycrystalline Silicon Material (PROPSM)
[NASA-CR-173754] 18 p2869 N84-28213
Process Research On Polycrystalline Silicon Material (PROPSM)
[NASA-CR-173753] 18 p2869 N84-28214
Process Research of Poycrystalline Silicon Material (PROPSM)
[NASA-CR-173934] 23 p3788 N84-34026
Process Research of Polycrystalline Silicon Material (PROPSM)
[NASA-CR-173935] 23 p3789 N84-34033

CULL, R.
Improved materials characterization for spacecraft applications 24 p3865 N84-34494

CULLEN, D. E.
Research and development of subsurface acoustic wave device configurations for sensor applications
[AD-A133659] 05 p0742 N84-14877

CULLER, S. R.
Nondestructive FT-IR sampling technique to study glass fiber composite interfaces
[AD-A129871] 01 p0031 N84-10192
Hydrothermal stability of gamma-aminopropyltriethoxysilane coupling agent on ground silicon powder and E-glass fibers
[AD-A130904] 01 p0037 N84-10234

CULLEY, K. M.
Radio frequency distribution assembly
[AD-A143575] 22 p3577 N84-32658

CULLIS, A. G.
High speed crystal growth by Q-switched laser melting 18 p2938 N84-28637

CULP, G.
DSCS 3: Acquisition and testing 14 p2139 N84-23822

CULY, D. G.
Advanced turbocharger design study program
[NASA-CR-174633] 12 p1822 N84-21879

CUMENGE, A.
Extension in Hardy classes of holomorphic functions and Carleson measures extimates for the bar delta equation 14 p2210 N84-24268

CUMINGS, N. P.
The new MSFC Solar vector magnetograph. Center director's discretionary fund
[NASA-TM-82568] 10 p1497 N84-19786

CUMMING, D. C.
Design and application of two stage evaporative cooling systems 11 p1640 N84-20720

CUMMING, I. G.
A fast, programmable hardware architecture for spaceborne SAR processing 07 p0989 N84-16409

CUMMINGS, A. C.
Temporal variations of the anomalous oxygen component 03 p0471 N84-13099
Voyager measurements of the energy spectrum, charge composition, and long term temporal variations of the anomalous components in 1977-1982 03 p0471 N84-13100

CUMMINGS, R.
A conformal SHF phased array for aircraft satellite communication
[AD-P003509] 21 p3384 N84-31477

CUMMINS, E. J. D.
Connection between Ikeda instability and phase conjugation 14 p2232 N84-24390

CUMMINS, H. Z.
Melting phenomena investigated by laser light scattering
[DE84-002004] 07 p1010 N84-16554

CUMMINS, W. F.
TMX-U experimental results
[DE83-016790] 03 p0449 N84-12955

CUNEO, A. A., JR.
Physical and computer modeling of military earth grounding practices in a HEMP (High-Altitude Electromagnetic Pulse) environment
[AD-A130141] 01 p0070 N84-10454

CUNHA, R. C. D.
Preliminary chemical analysis of rain water in Cubatao: Ambient effects
[INPE-2857-PRE/396] 23 p3792 N84-34053

CUNNIFF, R. A.
Planetary geometry handbook: Venus positional data, 1988 - 2020, volume 2
[NASA-CR-173192] 07 p1091 N84-17096
Planetary geometry handbook: Mars positional data, 1990 - 2020, volume 3
[NASA-CR-173193] 07 p1091 N84-17097
Planetary geometry handbook: Jupiter positional data, 1985 - 2020, volume 4
[NASA-CR-173194] 07 p1091 N84-17098
Planetary geometry handbook: Saturn positional data, 1985 - 2020, volume 5
[NASA-CR-173195] 07 p1091 N84-17099
Interplanetary mission design handbook. Volume 1, part 2: Earth to Mars ballistic mission opportunities, 1990-2005
[NASA-CR-173306] 09 p1260 N84-18226

CUNNINGHAM, A. R.
The effect of property changes on jet fuel producibility and cost 14 p2108 N84-23632

CUNNINGHAM, H. J.
Generalization of the subsonic kernel function in the s-plane, with applications to flutter analysis
[NASA-TP-2292] 11 p1600 N84-20480

CUNNINGHAM, J. A.
Space shuttle wing leading edge heating environment prediction derived from development flight data 01 p0025 N84-10162

CUNNINGHAM, J. E.
Solidification and phase stability in austenitic stainless steels
[DE84-001937] 05 p0656 N84-14312

CUNNINGHAM, K. I.
Geochemical detection of prospective petroleum areas in Arctic regions 14 p2166 N84-23972

CUNNINGHAM, P. E.
Broadband base isolated asymmetrically fed VHF antenna 06 p0827 N84-15393

CUNNINGHAM, T. B.
Opportunities for aircraft controls research 11 p1619 N84-20599

CUNNINGHAM, W. H.
Compositions for perfect graphs
[AD-A137611] 11 p1706 N84-21121

CUNNINGTON, G. R.
Radiative properties of advanced spacecraft heat shield materials
[NASA-CR-3740] 02 p0193 N84-11258

CUNO, R. J.
Accuracy requirements of space laser systems for geodetic applications 24 p3906 N84-34736

CUNY, J.
The influence of fabrication flows on the static and dynamic behavior of structures made of carbon-resin composites 01 p0034 N84-10215
Investigation of damage and damage propagation in static and fatigue tests on carbon epoxy composites
[SNIAS-841-551-102] 21 p3358 N84-31298

CUO, F.
Contribution of satellite remote sensing to knowledge of the littoral from the mouth of the Loire to that of the Gironde (France) 03 p0396 N84-12584

CUOMO, F. W.
Fiber optic bundle towed array
[AD-D011034] 19 p3105 N84-29724
Fiber optic lever towed array
[AD-D011047] 19 p3105 N84-29727

CUPINI, N. L.
Grain refinement of commercial aluminum by niobium and zirconium additions to the melt 15 p2307 N84-24841

CUQ, F.
Remote sensing of the Santonge littoral. Processing and interpretation of satellite images
[ISBN-2-85929-016-8] 18 p2867 N84-28202

CURBILLON, M.
Aerospatial'es approach to the study of flutter at the design stage of the project 02 p0170 N84-11118

CURL, R. F.
Infrared absorption spectroscopy with color center lasers
[DE84-008812] 19 p2990 N84-28945

CURLANDER, J.
Performance evaluation of the JPL interim digital SAR processor 07 p0989 N84-16407

CURLEY, P.
Future engine technologies and their effect on maintenance
[PNR-90190] 14 p2110 N84-23651

CURNIER, A.
Study of analysis methods concerning launch vehicle and spacecraft structural interaction
[ED-80-295] 12 p1778 N84-21605

CURRAN, D. R.
Microkinetics of stress-corrosion cracking in stem-turbine disc alloys
[DE83-902290] 01 p0048 N84-10307

CURRAN, P.
The use of airborne thematic mapper simulation data for the estimation and mapping of Green Leaf Area Index (GLAI) 03 p0398 N84-12602

CURREN, A. N.
Beam impingement angle effects on secondary electron emission characteristics of textured pyrolytic graphite
[NASA-TP-2285] 09 p1286 N84-18400
Ion sputter textured graphite electrode plates
[NASA-CASE-LEW-12919-2] 18 p2928 N84-28585
Secondary electron emission characteristics of ion-textured copper and high-purity isotropic graphite surfaces
[NASA-TP-2342] 19 p2997 N84-28989

CURRENT, K. W.
A quaternary logic encoder-decoder circuit design using CMOS
[AD-P002351] 14 p2192 N84-24142

CURRENT, M. I.
Annealing of interstitial loops in arsenic implanted silicon
[DE84-000384] 05 p0755 N84-14953

CURRERI, P. A.
Electromagnetic levitation coil fabrication technique for MSFC containerless processing facilities
[NASA-TM-82565] 09 p1306 N84-18535

CURRIE, J. W.
Identification and preliminary characterization of global water resource issues which may be affected by CO2-induced climate change
[DE84-011127] 20 p3246 N84-30604

CURRIER, J. H.
A study on the tensile strength of ice as a function of grain size
[AD-A134889] 08 p1172 N84-17631

CURRIER, J. L.
Selection of data from busses for test
[AD-D011160] 23 p3813 N84-34176

CURRIER, P. L.
A video bus for weapon system integration 06 p0771 N84-15051

CURRIT, P. A.
Cleanroom certification model 13 p2028 N84-23147

CURRO, J. G.
Volume recovery in glasses: A free-volume diffusion process
[DE83-013771] 06 p0811 N84-15280

CURRO, J. R., JR.
Cavity detection and delineation research. Part 2. Seismic methodology: Medford Cave Site, Florida
[AD-A131322] 02 p0249 N84-11627

CURRY, D. G.
MAGIC (Microcomputer Applications of Graphics and Interactive Communications). 1: A study of manual versus vocal control under heavy task loading
[AD-P003320] 18 p2910 N84-28456

CURRY, D. M.
Space shuttle orbiter leading-edge flight performance compared to design goals 01 p0025 N84-10161

CURRY, R. E.
The use of oil for in-flight flow visualization
[NASA-TM-84915] 05 p0627 N84-14122
Reliability analysis of an ultra-reliable fault tolerant control system
[NASA-CR-166594] 21 p3345 N84-31219

CURTAIN, R. F.
Finite dimensional compensators for infinite dimensional systems with unbounded control action
[AD-A142808] 21 p3472 N84-32002

CURTICE, D. H.
Assessment of load-frequency-control impacts caused by small wind turbines
[DE82-011513] 06 p0872 N84-15677

CURTIN, T.
South Atlantic physical oceanography study (year 5). Volume 1: Executive summary
[PB84-187855] 21 p3451 N84-31899

CURTIS, B.
Software psychology: The need for an interdisciplinary program
[PB84-176718] 17 p2755 N84-27486

CURTIS, C. R.
Assessment of acid rain on leaching of elements from Delaware soils into groundwater
[PB84-120849] 09 p1343 N84-18770

CURTIS, H.
Optimal design of GaAs-based concentrator space solar cells for 100 AMO, 80 deg C operation 19 p3044 N84-29312

CURTIS, R. E.
Water resources data for Puerto Rico, 1981 - 1982
[PB84-114701] 09 p1339 N84-18746

CURTIS, S. B.
Lethal, potentially lethal lesion model
[DE84-001325] 06 p0886 N84-15762

CURTIS, S. R.
Digital signal processing 22 p3684 N84-33357

CURTIS, W. H.
Solid state power controller fuse development program
[AD-A142118] 19 p3016 N84-29118
CURTISS, M. B.
Advanced Hough transform implementations
[AD-A132522] 04 p0589 N84-13890
CUSANI, R.
Model of the behavior of the human visual system for the perception of contour elements
[FUB-44-1982] 05 p0714 N84-14677
The possibility of reduction of the subjective redundance of image signals with particular reference to contour coding
[FUB-43-1982] 05 p0748 N84-14911
CUSHMAN, S. F.
Assessment of means for determining deflection of the vertical
[AD-A131286] 01 p0100 N84-10651
CUSHNIE, G. C., JR.
Navy electroplating pollution control technology assessment manual
[AD-A140336] 16 p2477 N84-25879
CUSHNIE, J.
The United Kingdom SATMaP program
[E84-10002] 04 p0551 N84-13627
CUSMA, J. T.
Laser optical pumping of sodium and lithium atom beams 06 p0849 N84-15534
CUSOLITO, R.
Creep-low cycle fatigue interaction of 2 1/4 Cr 1 Mo steel at high temperature 16 p2501 N84-26051
CUSWORTH, R. A.
Laser Doppler velocimetry measurements of mean velocity and turbulent stress tensor components in a free isothermal swirling jet
[UTIAS-281] 12 p1815 N84-21830
CUTBURTH, R. W.
Stable mirror mount
[DE84-014250] 23 p3755 N84-33804
CUTHBERTSON, J. W.
Coupling between angular deflection and eddy currents in the FELIX plate experiment
[DE84-001509] 05 p0750 N84-14927
CUTILLO, B. A.
Neurocognitive pattern analysis
[AD-A131302] 01 p0114 N84-10740
Single trial brain electrical patterns of an auditory and visual perceptuomotor task
[AD-A135545] 09 p1362 N84-18899
CUTISPOTO, C.
IUE observations of BY Draconis 24 p3975 N84-35176
CUTISPOTO, G.
Coordinated IUE and ground-based observations of active stars: Flare events on YZ CMi, V 1005 ORI, AD Leo and AR Lac 24 p3975 N84-35177
CUTKOSKY, M. R.
Grippers for an unmanned forging cell
[AD-A134237] 07 p1051 N84-16808
Precision flexible machining cells within a manufacturing system
[AD-A134864] 08 p1167 N84-17595
Testing and control of a compliant wrist
[AD-A140842] 17 p2748 N84-27445
Precision flexible machining cells within a manufacturing system
[AD-A142527] 20 p3170 N84-30129
CUTLER, M.
A representational basis for the development of a distributed expert system for Space Shuttle flight control
[NASA-TM-58256] 16 p2544 N84-26328
CUTLER, R. P.
Edge-sealed PLZT shutters for operation in high-humidity/temperature environments
[DE83-012627] 01 p0148 N84-10971
CUTRIM, E. M. C.
Estimating monthly rainfall from geostationary satellite imagery over Amazonia, Brazil 13 p2016 N84-23069
CUTTEN, D. R.
Atmospheric IR transmission data for a temperate maritime environment
[AD-A131035] 01 p0147 N84-10968
CUTTER, M.
Feasibility study of advanced optical techniques for ocean color measurement
[MBB-R3700/292] 12 p1837 N84-21974
CUTTS, D.
Status of P714 - LAPDOG
[DE83-013613] 01 p0164 N84-11079
Neutrino-oscillation experiments at Brookhaven National Laboratory
[DE83-018275] 04 p0528 N84-13476
CUTTS, J. A.
Conceptual design of a monitoring system for the Charters of Freedom
[NASA-CR-173909] 22 p3673 N84-33285
CUZZI, J. N.
Saturn's rings: 3-mm low-inclination observations and derived properties
[NASA-TM-87363] 23 p3844 N84-34387
CVIJETIC, M.
Fiber-optic communications systems
[AD-A137138] 11 p1644 N84-20749
CWYNAR, D.
Manned maneuvering unit simulations on the Space Operations Simulator 24 p3864 N84-34490
CYCHOSZ, J. M.
The vectorization of a ray tracing program for image generation 10 p1561 N84-20231
CYGAX, S.
Regeneration efficiency, shuttle heat loss and thermal conductivity in epoxy-composite annualr gap regenerators from 4K to 80K 06 p0818 N84-15335
CYMERMAN, A.
Anthropometric changes at high altitude
[AD-A140311] 16 p2535 N84-26277
A software package for administering and monitoring the Environmental Symptoms Questionnaire (ESQ-3)
[AD-A140288] 16 p2538 N84-26293
The influence of cardiorespiratory fitness on the decrement in maximal aerobic power at high altitude
[AD-A142218] 19 p3066 N84-29452
CYPHER, A.
User centered system design
[AD-A136131] 09 p1364 N84-18907
CYR, M. A.
Turbine blade and vane heat flux sensor development, phase 1
[NASA-CR-168297] 22 p3598 N84-32790
CYRE, W.
Advanced document retrieval system
[AD-A139385] 14 p2247 N84-24498
CYRUS, J. D.
Jet spoiler arrangement for wind turbine
[DE84-011303] 21 p3434 N84-31787
CYRUS, W. L.
Fluidized-bed and salt-bath heat treating (AISI 4130 and 4340 alloy steels)
[DE84-000979] 04 p0502 N84-13290
CZANDERNA, A. W.
Polymer degradation on reflecting metal films: Fourier transform infrared (FTIR) reflection-absorbance studies
[DE83-012129] 03 p0404 N84-12641
Matrix approach to testing mirrors, part 2
[DE83-011996] 04 p0558 N84-13676
CZARNECKI, S. V.
Nearly optimal detection of signals in non-Gaussian noise
[AD-A138657] 13 p1983 N84-22872
CZARNEK, R.
Free edge strain concentrations in real composite laminates: Experimental-theoretical correlation
[NASA-CR-173818] 19 p2986 N84-28919
CZARNITZKI, J.
Design of a project plan for the establishment of a lunar factory
[ILR-MITT-123] 10 p1435 N84-19379
CZECHOWSKY, P.
Complementary code and digital filtering for detection of weak VHF radar signals from the mesoscale 17 p2690 N84-27134
VHF radar measurements during MAP/WINE 17 p2691 N84-27135
The mobile Sousy-Doppler radar: Technical design and first results 17 p2693 N84-27152
CZICHOS, H.
Importance of properties of solids to friction and wear behaviour 14 p2153 N84-23895
CZICHY, R.
Feasibility study of advanced optical techniques for ocean color measurement
[MBB-R3700/292] 12 p1837 N84-21974
CZINK, F.
Heating with wind energy, part B
[BMFT-FB-T-83-131-PT-B] 03 p0405 N84-12651
CZIPOTT, P. V.
Experimental test of the gravitational inverse square law between 45 centimeters and one meter 16 p2526 N84-26221

D

DAALDER, J. E.
Arcing phenomena in high voltage fuses
[EUT-83-E-137] 10 p1489 N84-19736
Interruption of a dry-type transformer in no-load by a vacuum circuit-breaker
[EUT-83-E-141] 10 p1489 N84-19737
DABBS, T. P.
Micro and macro mechanics of fracture in ceramics
[AD-A137290] 10 p1465 N84-19572
DABIRI, A. E.
d-d Tokamak reactor assessment
[DE83-016127] 04 p0609 N84-14019
DABNEY, R.
Automated rendezvous and docking: A parametric study
[NASA-TP-2314] 14 p2115 N84-23677
DABOIN, S. A.
Noise levels and data analyses for small prop-driven aircraft
[AD-A134598] 07 p0952 N84-16175
Noise measurement flight test: Data/Analyses Bell 222 twin jet helicopter
[AD-A139906] 15 p2404 N84-25430
Noise measurement flight test: Data-analyses Aerospatiale SA-365N Dauphin 2 helicopter
[AD-A143229] 22 p3652 N84-33151
DABOUZ, M.
Low rate voice transmission by a classifying vocoder
[ENST-84E002] 19 p3010 N84-29083
DABRINGHAUS, H. G.
Transient overvoltages on cable sheaths
[BLL-OA-TRANS-2620-(6196.3)] 01 p0069 N84-10448
DABROWSKI, A.
Large-area mercuric iodide photodectors
[DE83-013035] 03 p0441 N84-12898
DABROWSKI, J. P.
The determination of frequencies and mass characteristics of binary stars in open clusters 23 p3839 N84-34355
DACHEV, Z.
Effects of small-scale plasma disturbance on the IKB-1300 spacecraft potential
[PR-839] 08 p1109 N84-17208
DACUNHA, N. M. C.
Wave climate synthesis using NMIMET: A trilogy of published papers
[NMI-R-167] 18 p2855 N84-28127
Assessment of a new global capability for wave climate synthesis 18 p2855 N84-28128
Ocean Wave Statistics: A new look 18 p2855 N84-28129
Wave climate synthesis worldwide 18 p2855 N84-28130
DACUNHA, R. P.
The use of infrared imagery in the study of fault zones
[INPE-3143-PRE/529] 21 p3443 N84-31845
DACUNHALIMA, I. C.
Two-dimensional impurity bands at semiconductor hetero-structure interfaces
[INPE-2996-PRE/448] 12 p1912 N84-22456
Resistivity of a 2-D electron gas under strong magnetic field using a memory function formulation
[INPE-3118-PRE/513] 16 p2558 N84-26407
Resistivity of a disordered 2-D electron gas in terms of force-force correlation function
[INPE-3065-PRE/482] 16 p2558 N84-26408
Memory function formalism applied to electronic transport in disordered systems
[INPE-3064-PRE/481] 16 p2559 N84-26418
DADDAZIO, R. P.
Yield surface for bars including warping restraint
[AD-A131393] 03 p0388 N84-12533
DADDIO, E.
Optimum and sub-optimum processors for multistatic radar systems 06 p0906 N84-15885
The maximum entropy method and its application to clutter cancellation 06 p0907 N84-15890
DADIANI, J.
Cogeneration: Status and environmental issues
[PB84-155175] 17 p2723 N84-27334
DADONE, A.
Three-dimensional implicit lambda methods
[NASA-CR-172264] 05 p0627 N84-14123
DADSON, C. E.
Field strength predictions using a computer and a terrain data base 10 p1476 N84-19643
DAEMEN, F. J. M.
Crystallization of the membrane protein rhodopsin 23 p3804 N84-34120
DAEUBLER, H. G.
Development of a self-adapted error-controlled difference method to solve the three-dimensional laminar incompressible boundary layer equations by numerically given contours determined by points
[REPT-24/83] 19 p3025 N84-29186

DAFNI, E.
Temperature dependence of the electric-field gradient in Er metal
[DE83-015564] 03 p0454 N84-12989
DAFONSECALOPES, R. V.
Data smoothing: An automatic algorithm
[INPE-3034-PRE/468] 17 p2752 N84-27467
DAFT, R. L.
The nature and use of formal control systems for management control and strategy implementation
[AD-A139083] 14 p2247 N84-24493
A field study of Air Force organization structures
[AD-A142389] 20 p3312 N84-31035
An exploratory analysis of the relationship between media richness and managerial information processing
[AD-A143503] 22 p3674 N84-33293
DAGALAKIS, N. G.
Measurement of structural damping using the random decrement technique 10 p1514 N84-19915
DAGENAIS, M.
Switching behavior of bistable resonators filled with two-level atoms 14 p2236 N84-24419
Low power optical bistability near bound excitons in cadmium sulfide 14 p2241 N84-24451
DAGENHART, W. K.
Normalized emittance of SITEX negative ion source
[DE84-003285] 07 p1072 N84-16967
Ion source with improved primary arc collimation
[DE84-014359] 23 p3823 N84-34244
DAGINCOURT, C. G.
Evaluation of sulfuric acid hydrolysis processes for alcohol fuel production
[DE84-004524] 23 p3715 N84-33548
DAGLI, G.
Plasma modification of graphite fibers and its effect on composite properties
[AD-A136558] 09 p1276 N84-18329
DAGLI, N.
Optics and quantum electronics
22 p3682 N84-33343
DAGNELIE, J.
Current methods of evaluation of bone mineral content 23 p3807 N84-34142
DAGOSTINO, M. D.
Space environment effects (M0006)
15 p2279 N84-24690
DAHL, D. A.
MAPPER user's manual
[DE84-003478] 11 p1708 N84-21133
DAHL, G.
Failure Identification Module (FIM) for digital control systems 17 p2586 N84-26573
DAHL, L.
OECD study shows Sweden has highest robot-worker ratio 24 p3892 N84-34648
DAHL, M.
The performance of small jet noise silencers for industrial applications
[PB83-234047] 02 p0230 N84-11507
DAHL, M. A.
Proposed revisions to MIL-F-8785C related to flight safety of augmented aircraft. Volume 1. Section 1 - 7
[AD-A131414] 02 p0175 N84-11153
Proposed revisions to MIL-F-8785C related to flight safety of augmented aircraft. Volume 2. Appendices A - F
[AD-A131415] 02 p0176 N84-11154
Proposed revisions to MIL-F-8785C related to flight safety of augmented aircraft. Volume 3. Appendix G. Pilot comments
[AD-A131416] 02 p0176 N84-11155
DAHL, W.
Study on the effects of niobium, vanadium, titanium and/or rare Earth metals on the properties and processing of high-tensile, weldable structural steels
[BMFT-FB-T-83-318] 15 p2295 N84-24775
DAHLAUSEN, M. J.
Electrochemical carbon dioxide concentrator subsystem development
[NASA-CR-166538] 08 p1205 N84-17857
DAHLBERG, E. D.
Experimental study of the thermodynamics of thin films and surfaces
[DE84-010361] 18 p2943 N84-28660
DAHLGREN, J. B.
Spacecraft control research at NASA
15 p2266 N84-24604
DAHLGREN, S. D.
Analytical characterization of coatings and thin overlayers
[DE84-011902] 21 p3371 N84-31389
DAHLIN, J. A.
Configuration design studies and wind tunnel tests of an energy efficient transport with a high-aspect-ratio supercritical wing
[NASA-CR-3524] 19 p2955 N84-28727
Results of design studies and wind tunnel tests of high-aspect-ratio supercritical wings for an energy efficient transport
[NASA-CR-159332] 19 p2956 N84-28735
DAHLMAN, R. C.
Vegetation response to carbon dioxide research plan
[DE84-006219] 11 p1676 N84-20934
Carbon cycle research plan
[DE84-006221] 12 p1861 N84-22124
DAHMEN, U.
Application of HVEM in phase transformation research
[DE84-009226] 19 p2996 N84-28982
DAHMEN, W.
On the optimal approximation rates for criss-cross finite element spaces
[PREPRINT-622] 15 p2397 N84-25378
DAHMS, D. G.
Versatile fire barrier systems for telephone cable
11 p1723 N84-21241
DAHMS, T. E.
Cardiovascular and respiratory responses to muscular activity during immersion in water at different temperatures
[AD-A138894] 14 p2185 N84-24094
DAI, Y. W.
Numerical modeling of turbulent flow in a channel
[NASA-CR-168278] 04 p0485 N84-13189
DAILEY, C. L.
Thrust balance efficiency measurements for a pulsed inductive thruster 20 p3139 N84-29930
DAINO, B.
Economic study of long distance optical fibre links
[FUB-38-1982] 03 p0443 N84-12908
DAINTY, J. C.
Characterization of scattering media using non-Gaussian speckle patterns
[AD-A136465] 09 p1388 N84-19065
DAIUTO, R. A.
The effect of thickness on fatigue crack propagation in 7475-T731 aluminum alloy sheet
[NASA-CR-172367] 19 p3035 N84-29251
DALABA, E. M.
LGM-30B, stage 2 dissected motor test report
[AD-A140337] 16 p2460 N84-25765
DALARD, F.
Potentiostatic investigation of the kinetics of the breakdown of the passivity of aluminium in aqueous medium
[BLL-OA-TRANS-3066-(6196.3)]
06 p0804 N84-15238
DALBUONO, G.
Local area networks: Impact on shipboard applications 06 p0907 N84-15888
DALDER, E. N. C.
Thermal stability of four high-strength, high-conductivity copper sheet alloys
[DE83-013312] 01 p0045 N84-10288
Evaluation of several high-strength copper sheet alloys
[DE83-015612] 03 p0353 N84-12298
DALE, B. C.
DBMS conversion case study
[DE84-011205] 20 p3315 N84-31054
DALE, C. B.
Measurement of solid propellant burning rates employing microwave techniques 13 p1944 N84-22640
DALE, J. M.
Positron spectroscopy applied to the analysis of surfaces
[DE82-008836] 01 p0038 N84-10238
Generation of monoenergetic positrons
[DE83-015535] 03 p0440 N84-12887
DALELIO, J.
NASA, the first 25 years: 1958 - 1983
[NASA-EP-182] 16 p2583 N84-26563
DALESSIO, A.
Characterization of heavy oil sprays in isothermal and burning conditions with laser light scattering measurements in the sideward region
15 p2294 N84-24766
DALEY, D. C.
Experimental investigation of dynamic stall
[AD-A135846] 09 p1252 N84-18172
DALEY, J. G.
SEAMOPT: Sterling engine optimization code
[DE84-012098] 22 p3605 N84-32840
DALGARNO, A.
Data analysis and theoretical studies for atmospheric Explorer C, D and E
[NASA-CR-175121] 06 p0878 N84-15711
DALLAS, A. G.
On the scattering of electromagnetic waves by perfectly conducting bodies moving in vacuum. Part 2: Scattering by stationary perfect conductors
[AD-A141548] 19 p3005 N84-29047
On the scattering of electromagnetic waves by perfectly conducting bodies moving in vacuum. Part 5: A description of motion and deformation retardation of sets and functions
[AD-A141549] 19 p3005 N84-29048
On the scattering of electromagnetic waves by perfectly conducting bodies moving in vacuum. Part 3: Representations of sufficiently smooth solutions of Maxwell's equation and of the scattering program
[AD-A141584] 19 p3005 N84-29050
On the scattering of electromagnetic waves by perfectly conducting bodies moving in vacuum. Part 1: Formulation and reformulation of the scattering problem
[AD-A141746] 19 p3006 N84-29051
On the scattering of electromagnetic waves by perfectly conducting bodies moving in vacuum. Part 4: Kinematic single layer potentials
[AD-A141747] 19 p3006 N84-29052
On the scattering of electromagnetic waves by perfectly conducting bodies moving in vacuum. Part 6: Manifolds in Euclidean spaces, regularity properties of domains
[AD-A141748] 19 p3006 N84-29053
DALLAVALLE, E.
Heap pumps marketing problems and the role played by the financial incentives provided by the law 308/82
[CISE-2149] 16 p2487 N84-25950
DALLEK, S.
Evaluation of mica substitutes for use in thermal batteries
[AD-A140650] 17 p2723 N84-27330
DALLEN, J. A., JR.
The synthesis and validation of experimental VLSI design using decoupled behavioral, structural and physical specifications 13 p1987 N84-22902
DALLING, D. K.
Carbon-13 and proton nuclear magnetic resonance analysis of shale-derived refinery products and jet fuels and of experimental referee broadened-specification jet fuels
[NASA-CR-174761] 22 p3561 N84-32552
DALLY, R. B.
Hot-spot investigations of utility scale panel configurations 22 p3582 N84-32687
DALY, C. J.
A Finite Integral Transform (FIT) method for differential equations having asymptotic solutions
[AD-P002958] 14 p2200 N84-24198
DALY, R.
Tracking and data acquisition system for the 1990's. Volume 1: Executive summary
[NASA-CR-175193] 10 p1433 N84-19369
Tracking and data acquisition system for the 1990's. Volume 5: TDAS ground segment architecture and operations concept
[NASA-CR-175197] 10 p1434 N84-19373
DALY, T. A.
CO2 forecasting and control: A mathematical approach
[DE84-013454] 21 p3449 N84-31882
DALZIEL, M. M.
Organizational structures, processes, and problems: A literature review and taxonomy
[AD-A140979] 18 p2943 N84-28665
DAMASHEK, M.
A search for radio pulsars in the Northern sky: Discovery of a pulsar in a unique binary system
03 p0462 N84-13040
DAMATO, C.
On the stick-free longitudinal dynamic stability of a general aviation aircraft equipped with an all-movable horizontal tail 18 p2797 N84-27748
DAMBACHER, M.
The potential of low dose computed tomography in assessing space flight induced bone loss
23 p3807 N84-34141
DAMBRA, F.
Towards a better understanding of helicopter external noise
[SNIAS-832-210-113] 16 p2554 N84-26388
DAME, R. E.
Line-focusing adjustable parabolic spiar-concentrating collector
[DE84-001590] 06 p0874 N84-15687
DAME, T. M.
Molecular clouds and galactic spiral structure
[NASA-TP-2288] 10 p1595 N84-20457
Molecular clouds and galactic spiral structure
10 p1596 N84-20459
DAMEN, A. A. H.
The Page Matrix: An excellent tool for noise filtering of Markov parameters, order testing and realization
[EUT-82-E-127] 10 p1489 N84-19735
DAMICO, W. P., JR.
Instabilities of a gyroscope produced by rapidly rotating, highly viscous liquids
[AD-A130874] 01 p0084 N84-10547

Pressure measurements in a rapidly rotating and coning, highly viscous fluid
[AD-A136824] 10 p1491 N84-19753
Flight data on liquid-filled shell for spin-up instabilities
[AD-A139136] 14 p2101 N84-23610
A three-degree-of-freedom flight simulator for spin-stabilized projectiles
[AD-A140657] 17 p2610 N84-26709
An explanation of spin-up instabilities for a 155mm binary projectile
[AD-A141534] 19 p3023 N84-29173

DAMLAMIAN, A.
Homogenization for a Volterra equation
[AD-A134427] 07 p1061 N84-16882

DAMM, C. C.
TMX-U experimental results
[DE83-016790] 03 p0449 N84-12955
Evolution of the mirror machine
[DE83-016942] 04 p0607 N84-14009

DAMMANN, R. E.
Effects of combined ultraviolet and oxygen plasma environment on spacecraft thermal control materials 10 p1446 N84-19449

DAMONGEOT, A.
Towards a better understanding of helicopter external noise
[SNIAS-832-210-113] 16 p2554 N84-26388

DAMORE, R. J.
Operational test and evaluation of the meter engineering development model
[AD-A125166] 07 p1007 N84-16532

DAMOS, D.
Human factors issues associated with the use of speech technology in the cockpit
[NASA-CR-166548] 08 p1143 N84-17433

DAMOSSO, E.
Computerized simulation of multipath fading for mobile radio systems 10 p1477 N84-19647

DAMPIER, F.
Lithium cell reactions
[AD-A142976] 21 p3391 N84-31522

DAMRON, S.
Power transfer for microwave discharges
[AD-A138868] 13 p2044 N84-23267

DAMSCHEN, D. W.
Geostatistics software user's manual for the Geosciences Research and Engineering Department PDP 11/70 computer
[DE84-004149] 09 p1369 N84-18940

DAMSGARD, H.
Thermal properties of loose tube secondary coated optical fibres experimentally discussed by a relative light pulse delay technique 11 p1727 N84-21269

DANA, M.
Guide for designing industrial high tension networks
[CAHIERS-TECHNIQUES-124] 15 p2330 N84-24994

DANAHER, P. J.
System safety and the Coast Guard lighter-than-air system project
[AD-A139607] 15 p2258 N84-24564

DANBERG, J. E.
A theoretical and experimental investigation of a transonic projectile flow field
[AD-A131938] 03 p0320 N84-12094

DANCHI, W. C.
A far-infrared laser study of small-area superconducting tunnel junctions
[AD-A137186] 11 p1744 N84-21383

DANDL, R.
The 2-step ECRH current-drive study
[DE83-012745] 01 p0150 N84-10983

DANDU, M. R.
KINSYN and micro KINSYN: User-friendly computer systems for linkage design 15 p2312 N84-24873

DANES, J. K.
Glycosaminoglycans in fetal bone mineralization 23 p3809 N84-34156

DANES, Z. F.
Complete Bouguer gravity anomaly map, Cascade Mountains, Washington
[DE84-012548] 21 p3445 N84-31856

DANESI, A.
A decentralized active control system for a large flexible structure in space 15 p2268 N84-24622

DANEV, P.
Studies of proteinograms in dermatophytes by disc electrophoresis. 1. Protein bands in relation to growth phase
[NASA-TM-77095] 07 p1042 N84-16755
Studies on proteinograms in dermatophytes by disc electrophoresis. Part 2: Protein bands of keratinophilic fungi
[NASA-TM-77096] 10 p1545 N84-20127

DANEY, D. E.
A cryocooler for applications requiring low magnetic and mechanical interference 06 p0818 N84-15333
An approach to optimization of low-power Stirling cryocoolers 06 p0818 N84-15334

DANFORD, M. D.
Galvanic coupling between D6AC steel, 6061-T6 aluminum, Inconel 718 and graphite-epoxy composite material: Corrosion occurrence and prevention
[NASA-TP-2236] 04 p0497 N84-13263

DANG, L. D.
Improved Two-Dimensional Kinetics (TDK) computer program
[NASA-CR-170922] 03 p0346 N84-12248

DANGELO, N.
Interaction of the space shuttle orbiter with the ionospheric plasma 08 p1117 N84-17265
A laboratory investigation of the high-frequency Farley-Buneman instability
[NASA-CR-173435] 16 p2525 N84-26215
Production of plasma with variable, radial electric fields
[NASA-CR-173434] 16 p2558 N84-26413

DANGERMOND, J.
Review and synthesis of problems and directions for large scale geographic information system development
[NASA-CR-166563] 10 p1525 N84-19988

DANGOR, A. E.
The Z-pinch program at Imperial College 10 p1583 N84-20372

DANIEL, B. R.
Effect of oscillations upon velocity distributions in simulated solid propellant flow environments 13 p1945 N84-22646

DANIEL, D. C.
Experimental aerodynamic characteristics of missiles with square cross sections
[AD-A132278] 04 p0489 N84-13215

DANIEL, I. M.
Embedded gage impact study
[NASA-CR-172227] 08 p1161 N84-17558

DANIEL, J. W.
Science in the European Economic Community: A self-assessment and a detailed plan of action
[AD-A139078] 14 p2247 N84-24492

DANIEL, M. R.
MSW (magnetostatic wave) variable time-delay techniques
[AD-A133770] 05 p0753 N84-14941

DANIEL, P. L.
Estimation techniques for transport equations
[AD-A135092] 08 p1218 N84-17945
Spline-based estimation techniques for parameters in elliptic distributed systems
[NASA-TM-85439] 08 p1218 N84-17947

DANIEL, R. E.
Economic implications of current systems 12 p1838 N84-21982

DANIEL, W.
Central heat pump units: Problems of heat output control
[BMFT-FB-T-83-159] 05 p0681 N84-14480

DANIEL, W. A.
Advanced technology UHF receiver study. Part 2: Effect on UHF television allotments
[PB84-173848] 16 p2483 N84-25921

DANIELE, C. J.
A generalized computer code for developing dynamic gas turbine engine models (DIGTEM)
[NASA-TM-83508] 03 p0333 N84-12166
Digital computer program for generating dynamic turbofan engine models (DIGTEM)
[NASA-TM-83446] 07 p0954 N84-16185

DANIELL, R. G.
The design and development of a release mechanism for space shuttle life-science experiments 15 p2347 N84-25079

DANIELS, E. J.
USAF advanced terrestrial energy study. Volume 1: Project summary
[AD-A133803] 05 p0699 N84-14588
USAF advanced terrestrial energy study. Volume 2: Technology handbook
[AD-A133272] 06 p0873 N84-15684
USAF advanced terrestrial energy study. Volume 3: Parameter survey
[AD-A133501] 06 p0874 N84-15685
USAF advanced terrestrial energy study. Volume 4: Analysis, data, and bibliography
[AD-A133514] 06 p0874 N84-15686

DANIELS, H. A. M.
Uniaxial model for gas-loaded variable conductance heat pipe performance: The effects of vapor flow, friction, and inertia 10 p1443 N84-19424
Uniaxial model for gas-loaded variable conductance heat pipe performance; the effects of vapor flow, friction and inertia
[NLR-MP-83058-U] 17 p2669 N84-27021

DANIELS, J. D.
Automatic control of a visual physiology experiment, using MINC
[AD-A140607] 17 p2745 N84-27431

DANIELS, W. L.
The energy cost and heart rate response of trained and untrained subjects walking and running in shoes and boots
[AD-A131420] 01 p0113 N84-10735
Recommendations for the conduct of physical training in cold weather
[AD-A142137] 19 p3066 N84-29449

DANIELSON, B. L.
Optical time-domain reflectometer performance and calibration studies
[PB84-110964] 09 p1390 N84-19082

DANIELSON, G. E.
Topography on Ganymede derived from photoclinometry 13 p2074 N84-23442

DANILCHENKO, V. G.
High-speed thyristors on weakly doped GaAs 22 p3568 N84-32600

DANILCHENKO, V. P.
Use of fiber light guides for evaluation of precision characteristics of pulsed laser range finders 17 p2637 N84-26870

DANILOV, A. D.
First All-Union Symposium on M.A.P.: Conclusion of report 18 p2822 N84-27917

DANILOV, A. Y.
Television system for monitoring target position in laser thermonuclear fusion experiments 13 p1969 N84-22781
Studies of amplifier module in Delfin Facility for heating thermonuclear plasma 20 p3289 N84-30881

DANILOV, V. A.
Focusers of obliquely incident laser radiation 21 p3487 N84-32099

DANILYCHEV, V. A.
Improving energy performance and duty time of production process CW electrical ionization CO2 lasers by using five-component lasing mixtures 21 p3481 N84-32065

DANKEL, T., JR.
Random rays, geometric acoustics, and the parabolic wave equation
[AD-A141398] 19 p3083 N84-29568

DANKOWSKI, J.
Vibration isolation system for testing in a vacuum 24 p3864 N84-34492

DANLY, M.
Speech communication 22 p3684 N84-33358

DANN, G.
Field demonstration of three-phase wanlass motors
[AD-A140085] 15 p2330 N84-24989

DANN, R.
DIGMAP, an interactive graphic support system for mine survey 20 p3225 N84-30496

DANNEBERG, E.
Investigation of interactions between helmet-mounted sight/display, sensor platform and human pilot
[ESA-TT-746] 16 p2539 N84-26299

DANNELONGUE, H. H.
The rapid sampling vertical profiler MILDEX, October-November 1983
[AD-A140965] 18 p2892 N84-28356

DANOCZY, E.
Some aspects of mathematical and chemical modeling of complex chemical processes
[NASA-TM-77055] 07 p0969 N84-16279

DANSET, P. T.
Laser diagnostic development and measurement and modeling of turbulent flowfields of jets and wakes. Part 3: The development of a 2-channel CW Time-Resolves Laser Raman Spectroscopy (TiLaRS) system for measurements in gas flowfields
[AD-A134693] 08 p1159 N84-17544

DANTIN, B.
Thermal control of the SPOT satellite payload telemetry 10 p1447 N84-19456

DANTIN, L. J.
Water resources data for Louisiana, water year 1982. Volume 1: Central and Northern Louisiana
[PB84-118546] 09 p1339 N84-18750

DANTZIG, G. B.
Triangulations (tilings) and certain block triangular matrices
[DE84-003579] 07 p1064 N84-16902
Decomposition and scaling-inequality for line-sum-symmetric nonnegative matrices
[DE84-005639] 11 p1719 N84-21211

Can Leontief and P-matrices be rescaled positive definite
[DE84-004802] 12 p1897 N84-22355

DANYLUK, S.
Surface property modification of silicon
[NASA-CR-173952] 23 p3788 N84-34023

DANZIGER, J.
Multifrequency observations of active galactic nuclei 24 p3972 N84-35152

DAOLE, Y.
The proximity effects of superconducting multilayer film
[AD-A143255] 22 p3662 N84-33217

DARBIN, S. D.
Experimental study of strong nonlinear-optics effects in liquid crystals 21 p3483 N84-32071

DARBY, B. J.
Radar signal processing architectures and algorithms in digital VLSI (Very Large Scale Integration)
[PB84-140110] 11 p1645 N84-20756

DARBY, J. B., JR.
Ocean thermal energy conversion: Materials issues
[DE84-012094] 21 p3434 N84-31790

DARCIE, T. E.
Transition flow ion transport via integral Boltzmann equation
[UTIAS-269] 03 p0432 N84-12828

DARDEN, C. M.
An analysis of shock coalescence including three-dimensional effects with application to sonic boom prediction 02 p0288 N84-11890
An analysis of shock coalescence including three-dimensional effects with application to sonic boom extrapolation
[NASA-TP-2214] 13 p1988 N84-22906
Spatial derivatives of flow quantities behind curved shocks of all strengths
[NASA-TM-85782] 17 p2600 N84-26665

DARDYMOV, I. V.
Effect of eleuterococcus extract on recovery processes in rats following seven-day hypokinesia 02 p0260 N84-11706

DARGUE, J. H.
National airspace review benefits and costs
[FAA-AT-84-1] 19 p2961 N84-28765

DARKAZALLI, G.
Solar photovoltaic powered refrigerators/freezers for medical use in remote geographic locations
[NASA-CR-168268] 15 p2361 N84-25163

DARKEN, L. S.
Influence of cation stoichiometry on the electrical conductivity and high-temperature stability of MgO:Al/sub 2O/sub 3 spinel
[DE84-003305] 07 p0980 N84-16348

DARLINGTON, D. J.
Aerials for use in television outside broadcasts
[BBC-RD-1983/12] 05 p0665 N84-14373

DARMON, C. A.
Validation methods for mathematical models of flexible satellite dynamics
[ESA-CR(P)-1794] 08 p1113 N84-17241

DARNELL, A. J.
Production of hydrogen from renewable resources
[DE84-000082] 14 p2132 N84-23780

DARTSMELIYA, V. A.
Experimentally produced biped monkeys as a model for multipurpose research in gravity biology and physiology 07 p1047 N84-16789
Walking erect as a factor in development of arterial hypertension in primates 20 p3253 N84-30645

DARU, V.
Contribution to the study of a numerical implicit method for solving the Euler equations
[ONERA-NT-1983-8] 16 p2488 N84-25958

DARWISH, A. Y.
Plane strain fracture toughness of polyethylene pipe materials
[MIT-RR-R82-2] 06 p0857 N84-15586

DAS, A.
Kinematics, influence functions and field quantities for disturbance propagation from moving disturbance sources
[NASA-TM-77410] 11 p1601 N84-20489
Wave propagation from moving singularities and a unified exposition of the linearized theory for aerodynamics and acoustics
[DFVLR-FB-84-17] 19 p3010 N84-29080

DAS, B.
Science of integration
[AD-A135590] 09 p1364 N84-18906

DAS, D.
Materials research for advanced inertial instrumentation. Task 2: Gas bearing material development
[AD-A130471] 01 p0007 N84-10044
Materials research for advanced inertial instrumentation. Task 2: Gas bearing material development
[AD-A140435] 16 p2446 N84-25690
Materials research for advanced inertial instrumentation. Task 3: Rare earth magnetic material technology as related to gyro torquers and motors
[AD-A140611] 17 p2762 N84-27542

DAS, D. K.
Chemical vapor deposition and reactive diffusion of boron on beryllium
[AD-D011043] 19 p2995 N84-28976

DAS, P.
Semiconductor surface characterization using transverse acoustoelectric voltage versus voltage measurements
[AD-A131347] 02 p0298 N84-11955
Finite element analysis of wrinkling membranes
[NASA-CR-172325] 14 p2158 N84-23926
Adaptive spread spectrum receiver using acoustic surface wave technology
[AD-A142129] 19 p3007 N84-29060
Non-destructive testing of semiconductors using surface acoustic wave
[AD-A143559] 22 p3664 N84-33228

DAS, R.
Photovoltaic power conditioning subsystem: State of the art and development opportunities
[NASA-CR-173458] 12 p1842 N84-22009
Effects of voltage control in utility interactive dispersed storage and generation systems
[NASA-CR-173730] 18 p2869 N84-28211

DASARO, E. A.
XCP measurements off California in October 1982: Cruise report and preliminary results
[AD-A133051] 06 p0885 N84-15754

DASCHBACH, J.
The make or buy decision--its nature and impact
[AD-P002779] 13 p2054 N84-23326
Increasing the Contractor/Subcontractor/Vendor bidding lists
[AD-P002836] 13 p2063 N84-23381
Evaluating the availability, role, and performance of subcontractors in the aerospace industry
[AD-A141408] 19 p3114 N84-29788

DASH, S. M.
Fully-coupled analysis of jet mixing problems. Part 1. Shock-capturing model, SCIPVIS
[NASA-CR-3761] 06 p0834 N84-15425

DASHCUND, D.
IRAAM wind tunnel test, task 3
[AD-A135256] 08 p1099 N84-17148

DASILVA, A. F.
A cluster model for two-dimensional disordered systems
[INPE-2895-PRE/414] 02 p0298 N84-11953
The hydrogen molecule for a two-dimensional system
[INPE-2981-PRE/443] 07 p1071 N84-16958
Clustering model in n-doped many-valley semiconductors
[INPE-2911-PRE/424] 07 p1079 N84-17015
Two-dimensional impurity bands at semiconductor hetero-structure interfaces
[INPE-2996-PRE/448] 12 p1912 N84-22456
Impurity states in 2- and 3-dimensional disordered systems
[INPE-3066-PRE/483] 16 p2559 N84-26416
The 2-D impurity states associated with inversion layers
[INPE-3081-PRE/493] 16 p2559 N84-26417
Impurity cluster states in disordered 2-dimensional systems: A self-consistent Hartree-Fock-Roothaan model
[INPE-3223-PRE/574] 24 p3966 N84-35115

DASILVA, C. M.
PROCAOC: A program for computation, analysis and optimization of circuitz
[INPE-3135-PRE/526] 23 p3814 N84-34184
Project active and passive microwave devices with auxiliary computer
[INPE-3152-TDL/169] 23 p3814 N84-34185

DASILVA, C. R. T.
SIRIUS: Bibliographic search and retrieval system
[INPE-2771-PRE/344] 15 p2417 N84-25512

DASILVA, R. T.
Application of sensitivity analysis to aerodynamic parameters of a bank to turn missile
[AD-A141940] 20 p3134 N84-29899

DASILVA, W. C. C.
Semi-analytical procedure for the propagation of artificial satellite orbits based on parameter estimation
[INPE-2757-PRE/333] 15 p2270 N84-24628
Numerical orbit generators of artificial earth satellites
[INPE-3050-RPE/455] 16 p2455 N84-25740
Artificial satellites, orbital motion
[INPE-3163-RPE/458] 23 p3699 N84-33445

DASILVADIAS, P. L.
Vertical mode decomposition and model resolution
[INPE-3230-PRE/580] 24 p3918 N84-34805
Transient convection over the Amazon/Bolivia region and the dynamics of drought over northeast Brazil
[INPE-3226-PRE/577] 24 p3922 N84-34823

DASKO, A. D.
New type of dye laser with light-induced distributed feedback 21 p3482 N84-32067

DASO, E. O.
Theoretical and experimental investigations of asymmetric turbulent supersonic free shear layers 21 p3323 N84-31088

DASS, W.
Fundamental properties of soils for complex dynamic loadings: Dynamic constitutive modeling of sandy soils
[AD-A131284] 02 p0206 N84-11341
Fundamental properties of soils for complex dynamic loadings; dynamic constitutive model fundamentals
[AD-A139358] 14 p2134 N84-23791

DAT, R.
Development of the basic methods needed to predict the aeroelastic behavior of helicopters 03 p0429 N84-12811
Developments in structural vibration testing methods 16 p2476 N84-25874

DATSKO, Y. P.
Ionospheric effect of partial solar eclipse of 31 July 1981 17 p2704 N84-27224

DATTA, T. K.
Accident surrogates for use in analyzing highway safety hazards, volume 2
[PB84-174747] 16 p2478 N84-25884
Accident surrogates for use in analyzing highway safety hazards. Volume 3: Appendices A-G
[PB84-174754] 16 p2478 N84-25885

DATTAGUPTA, S.
Crystal fields and second order magnetic hyperfine interactions in TmFe2Si2
[DE84-003622] 08 p1236 N84-18078

DATTAGURU, B.
User's manual for GAMNAS: Geometric and Material Nonlinear Analysis of Structures
[NASA-TM-85734] 06 p0798 N84-15200

DATZ, S.
Dielectronic recombination: An introduction
[DE83-015738] 02 p0296 N84-11942
Planar channeling radiation from relativistic positrons and electrons in LiF
[DE84-002800] 07 p1081 N84-17033

DAU, T. T.
A quaternary cellular array complex number multiplier
[AD-P002362] 14 p2193 N84-24153

DAUBE, F. G.
Underwater shock-induced responses of submerged cylindrical structures
[AD-A139072] 13 p2002 N84-22987

DAUBER-OSGUTHORPE, P.
Computer simulation of protein systems 10 p1559 N84-20214

DAUD, T.
Characterization of grain boundaries in silicon
[NASA-CR-173459] 12 p1912 N84-22460
A new solar cell design for improved open circuit voltage and high efficiency
[NASA-CASE-NPO-16126-1] 22 p3616 N84-32911

DAUGHERTY, C. E.
Aspects of electroless nickel plating on molybdenum
[DE84-006434] 20 p3158 N84-30057

DAUGHERTY, T. L.
Interactive mechanisms of sliding-surface bearings
[AD-A133127] 06 p0852 N84-15556
Rubber to backing bond strength for stave bearings
[AD-A140513] 16 p2499 N84-26033

DAUGHETY, S. F.
Experimental investigation of turbulent heat transfer in straight and curved rectangular ducts
[AD-A136239] 09 p1313 N84-18581

DAUGHTRY, C. S. T.
Meteorological models for estimating phenology of corn
[E84-10160] 17 p2709 N84-27252
Aggregating available soil water holding capacity data for crop yield models
[E84-10161] 17 p2710 N84-27253
Costs of measuring leaf area index of corn
[E84-10162] 17 p2710 N84-27254

DAULERIO, L. A.
A Generalized Escape System Simulation (GESS) computer program: GESS user's guide, version 2, volume 1
[AD-A138844] 13 p1928 N84-22545

DAUM, P.
Insulin and cortisol improve heat tolerance in isolated perfused rat liver
[AD-A133382] 07 p1042 N84-16758

DAUNT, S. J.
The 12 micron band of ethane: A spectral catalog from 765 cm(-1) to 900 cm(-1)
[NASA-TM-85108] 10 p1454 N84-19493
DAUPHIN, J. P.
Eolian quartz granulometry as a paleowind indicator in the Northeast Equatorial Atlantic, North Pacific and Southeast Equatorial Pacific 23 p3796 N84-34069
DAUSCH, H. J.
Thermostatic fine control valves mounted on the radiators in district heating systems
[BMFT-FB-T-83-169] 07 p1012 N84-16568
DAVARI, B.
Semiconductor surface characterization using transverse acoustoelectric voltage versus voltage measurements
[AD-A131347] 02 p0298 N84-11955
Non-destructive testing of semiconductors using surface acoustic wave
[AD-A143559] 22 p3664 N84-33228
DAVARIAN, F.
Autonomous Integrated Receive System (AIRS) requirements definition. Volume 2: Design and development
[NASA-CR-175262] 22 p3576 N84-32647
DAVE, S. M.
Controlled combustion engine evaluation
[DE83-011245] 03 p0384 N84-12499
DAVENPORT, A. S.
A model of inter-organizational influences on organizational processes
[AD-A142450] 20 p3313 N84-31037
DAVENPORT, E. M.
Prediction of field strengths near HF transmitters
[AD-B078278] 15 p2319 N84-24917
DAVENPORT, J. H.
Algorithmic integration of elementary transcendental functions on an algebraic curve
22 p3636 N84-33052
DAVENPORT, R.
Software quality assurance Spacelab experience and future trends 05 p0725 N84-14759
DAVID, D.
Shuttle payload improvement by low risk modifications to the OMS engine 20 p3138 N84-29925
DAVID, J.
Light aircraft sound transmission study
[NASA-CR-174540] 01 p0139 N84-10910
DAVID, P.
Dynamic spacecraft simulators in military space ground systems
[AD-P002159] 14 p2139 N84-23625
DAVID, P. A.
Capillary zone electrophoresis: Instrumentation and use with nonaqueous solvents
[DE84-010617] 18 p2812 N84-27854
DAVID, R. A.
Time delay estimation using the adaptive delay element
[DE84-002042] 06 p0830 N84-15403
DAVID, R. E.
Algorithms for solving large sparse systems of simultaneous linear equations on vector processors
10 p1561 N84-20227
DAVID, S. A.
Electrochemical etching of titanium-alloy castings
[DE84-000244] 04 p0501 N84-13286
DAVID, T. D.
Eruption of permanent dentition in rhesus monkeys exposed to ELF (Extremely low frequency) fields
[AD-A132065] 03 p0413 N84-12703
DAVIDON, W. C.
Evaluation of step directions in optimization algorithms
[DE84-006044] 11 p1716 N84-21194
DAVIDOVITS, P.
Chemiluminescence and laser induced fluorescence of boron atom reactions
[AD-A131709] 03 p0380 N84-12471
DAVIDS, C. N.
High-sensitivity laser spectroscopy with atoms from a cooled helium jet
[DE84-000614] 04 p0540 N84-13554
DAVIDSON, A. M.
MANIP and MINIP, new modeling tools for the thermal engineer 10 p1443 N84-19425
DAVIDSON, A. W.
Advanced components for spaceborne infrared astronomy
[NASA-CR-166585] 17 p2671 N84-27025
DAVIDSON, B. J.
Steam condenser thermal design theories
06 p0841 N84-15485
DAVIDSON, D. L.
The study and modeling of high temperature fatigue crack propagation in austenitic stainless steel
[DE84-005391] 10 p1462 N84-19552
Study of the influence of metallurgical factors on fatigue and fracture of aerospace structural materials
[AD-A140659] 17 p2623 N84-26789
DAVIDSON, F.
Optical communication with laser diode arrays
[NASA-CR-173533] 14 p2150 N84-23879
Dye laser traveling wave amplifier
[NASA-CR-175228] 15 p2338 N84-25036
DAVIDSON, H. L.
Some predictions on the performance of future supercomputers for simulation and control
[DE84-002785] 07 p1053 N84-16816
Approach to real-time holography
[DE84-002779] 08 p1162 N84-17565
DAVIDSON, J. L.
Centrifugal scaling laws for ground launch cruise missile shelter
[AD-A141572] 19 p2969 N84-28818
DAVIDSON, K. L.
Synoptic classification and horizontal homogeneity of the refractive index structure function parameter in the surface layer
[AD-A140925] 18 p2879 N84-28280
DAVIDSON, L. C.
Experimental validation of the component synthesis method for predicting vibration of liquid-filled piping
10 p1510 N84-19882
DAVIDSON, S. A.
Accomplishments of the NASA Johnson Space Center portion of the soil moisture project in fiscal year 1981
[E84-10090] 10 p1521 N84-19961
DAVIDTZ, J. C.
The heterogeneous nucleation of ice I
06 p0817 N84-15325
DAVIES, A. G.
Surface wave propagation over sinusoidally varying topography: Theory and observation
[IOS-159-PT-1] 13 p1991 N84-22922
Surface wave propagation over sinusoidally varying topography: Theory and observation
[IOS-159-PT-2] 13 p1991 N84-22923
DAVIES, H. E.
The current status and future upgrade of the PDS at the Royal Greenwich Observatory
18 p2840 N84-28031
DAVIES, J. E.
The development of wrought heat-resisting alloys for gas turbines
[CSIR-ME-1778] 11 p1632 N84-20669
DAVIES, J. H.
Scale prevention and removal by hydrodynamic fluid treatment 11 p1640 N84-20721
DAVIES, M.
Integrated Computer-Aided Manufacturing (ICAM) architecture part 3. Volume 1: Architecture part 3: Accomplishments
[AD-A134249] 07 p1055 N84-16829
Mathematical modeling of a continuum. Related modal analysis. Volume 1: Problem analysis
[ESA-CR(P)-1862-VOL-1] 16 p2552 N84-26376
Mathematical modelling of a continuum. Related modal analysis. Part 3: Programmer's manual
[ESA-CR(P)-1862-VOL-3] 16 p2553 N84-26377
DAVIES, P. B.
Detection of NH-2O-radicals by far-infrared laser magnetic resonance spectroscopy
[MPIS-6/1984] 20 p3151 N84-30010
Microwave and far infrared spectroscopy of transient molecules
[AD-A142962] 21 p3493 N84-32134
DAVIES, R.
Parameterization of cloud effects on the absorption of solar radiation
[NASA-CR-175154] 07 p1035 N84-16712
DAVIES, S. T.
Topographic EXAFS
[AD-A137116] 12 p1915 N84-22475
DAVIES, T. J.
Use of fiber optics and laser-induced fluorescence for remote measurements of UF6 in strong rotation
[DE83-014195] 01 p0088 N84-10575
Remote thermometry of moving surfaces by laser-induced fluorescence of surface-bonded phosphor
[DE84-004264] 10 p1498 N84-19792
DAVIS, A.
Artificial aging of transparent aerospace materials
[AD-P003210] 17 p2593 N84-26623
DAVIS, B.
Integrated Computer-Aided Manufacturing (ICAM) architecture, part 3. Volume 7: MFG01 glossary
[AD-A144426] 24 p3947 N84-34991
DAVIS, B. R.
Integrated Computer-Aided Manufacturing (ICAM) architecture part 3. Volume 1: Architecture part 3: Accomplishments
[AD-A134249] 07 p1055 N84-16829
Integrated Computer-Aided Manufacturing (ICAM) architecture. Part 3, volume 2: Procedures
[AD-A137422] 10 p1563 N84-20240
DAVIS, B. W.
Data analysis of the LLNL hydrogen igniter experiments
[DE83-010260] 01 p0037 N84-10236
DAVIS, C. G.
Theoretical study of cepheid light curves
[DE84-012453] 21 p3523 N84-32322
DAVIS, C. M.
CDTI target selection criteria
[NASA-CR-3778] 08 p1104 N84-17178
DAVIS, C. S.
Deconvolution of aberrations in optical systems
[AD-A138096] 12 p1907 N84-22425
DAVIS, D.
Development of scanning dipole array
[AD-P003405] 19 p3014 N84-29109
Manual and automated line generalization and feature displacement
[AD-A143250] 22 p3614 N84-32900
DAVIS, D. D.
A rodent and lightning protective sheath for fiber optic cables 11 p1724 N84-21246
DAVIS, E. S.
Representing and acquiring geographic knowledge
[AD-A139308] 14 p2169 N84-23994
DAVIS, G. A.
Clustering and ordering in 3-5 alloys
[AD-A131785] 03 p0452 N84-12974
DAVIS, G. D.
Environmental durability of aluminum adhesive joints protected with hydration inhibitors
[AD-A135304] 09 p1288 N84-18412
DAVIS, G. T.
Temperature dependent hysteresis study in polyvinylidene fluoride
[AD-A132675] 05 p0659 N84-14331
Hysteresis in copolymers of vinylidene fluoride and trifluoroethylene
[AD-A137446] 10 p1466 N84-19577
Polymer Science and Standards Divisions report, 1983
14 p2130 N84-23773
DAVIS, H. P.
Thomson-scattering measurements of electron temperature and density in a plasma channel created by a relativistic electron beam
[DE84-000356] 04 p0597 N84-13940
DAVIS, H. W.
Calibration of meteorological measurements made by NOAA (National Oceanic and Atmospheric Administration) WP3D aircraft, 1983
[PB84-127463] 10 p1541 N84-20099
DAVIS, J.
A numerical method in solving a coupled thermoelasticity equation and some results
[AD-A130183] 01 p0129 N84-10843
Atomic structure in strongly coupled neon plasmas
[AD-A137341] 10 p1576 N84-20327
Spacescapes/payloads for the arts: Administrative and technical aspects of the New Wave Ruby Falls Get Away Special Project are reviewed in perspective
18 p2799 N84-27762
Research in dense plasma atomic physics
[AD-A141538] 19 p3107 N84-29740
A proposed technique for creation and detection of hot electron ionization and gain effects in a laser-produced tin plasma
[AD-A144025] 23 p3828 N84-34281
DAVIS, J. A.
Color display technology in advanced fighter cockpits
06 p0772 N84-15061
Factorization using the quadratic sieve algorithm
[DE84-004140] 09 p1379 N84-19010
Factorization using the quadratic sieve algorithm
[DE84-004996] 10 p1572 N84-20299
DAVIS, J. M.
Design and verification of a cloud field optical simulator
[NASA-CR-173274] 07 p1035 N84-16717
Air pollution effects on terrestrial ecosystems
[PB84-128313] 08 p1184 N84-17712
Design and verification of a cloud field optical simulator 10 p1578 N84-20339
DAVIS, L.
Theoretical chemical calculations on molecules of air force interest
[AD-A137203] 10 p1576 N84-20326
DAVIS, L. I., JR.
Shot noise limited detection of OH using the technique of laser induced fluorescence
[NASA-CR-175433] 11 p1662 N84-20844
DAVIS, L. P.
When is an internal rotation a vibration?
[AD-A132974] 05 p0744 N84-14890

United States Air Force Academy, Department of Chemistry research: AY 1982-83
[AD-A141015] 18 p2808 N84-27828
MINDO/3 and MNDO calculations for nitro compounds
[AD-A141727] 19 p3101 N84-29698
DAVIS, L. S.
Image matching using generalized Hough transforms 03 p0394 N84-12569
Theory of image analysis and recognition
[AD-A135453] 08 p1240 N84-18106
Evidence accumulation for spatial reasoning in aerial image understanding
[AD-A139874] 15 p2336 N84-25025
Evidence accumulation for spatial reasoning
[AD-A142174] 19 p3042 N84-29302
DAVIS, L., JR.
Research in particles and fields
[NASA-CR-173928] 23 p3845 N84-34392
DAVIS, M. A. S.
Tropical cyclone data tape for the North Atlantic Basin, 1886 - 1983: Contents, limitations and uses
[NOAA-TM-MWS-NHC-22] 16 p2531 N84-26252
DAVIS, M. W.
Refinement and evaluation of helicopter real-time self-adaptive active vibration controller algorithms
[NASA-CR-3821] 23 p3689 N84-33378
DAVIS, P.
Air operations language for military space ground systems
[AD-P002146] 14 p2137 N84-23811
Testing of candidate batteries for global positioning system 23 p3736 N84-33677
DAVIS, P. A.
Characterization of surficial geologic units on Venus from Pioneer Venus radar data: A progress report 13 p2076 N84-23454
Rapid extraction of relative topography from Viking orbiter images. 2: Application to irregular topographic features 13 p2087 N84-23523
DAVIS, P. K.
Rand's experience in applying artificial intelligence techniques to strategic-level military-political war gaming
[P-6977] 22 p3649 N84-33137
DAVIS, P. R.
Evaluation of single crystal LaB6 cathodes for use in a high frequency backward wave oscillator tube
[NASA-CR-173343] 10 p1485 N84-19709
DAVIS, R.
Representations for reasoning about change
[AD-A131649] 03 p0424 N84-12772
DAVIS, R. A.
Space systems environmental interactions technology program
[AD-P002125] 16 p2525 N84-26211
Deficiencies of current flight data recorders in accidents investigation 17 p2586 N84-26575
DAVIS, R. C.
Structural efficiency studies of corrugated compression panels with curved caps and beaded webs
[NASA-TP-2272] 09 p1329 N84-18675
Curved cap corrugated sheet
[NASA-CASE-LAR-12884-1] 23 p3700 N84-33450
DAVIS, R. E.
Satellite data relay and platform locating in oceanography. Report of the In Situ Ocean Science Working Group
[NASA-TM-85443] 12 p1860 N84-22116
A high dispersion spectral analysis of three pre-main sequence stars 16 p2576 N84-26532
GASP cloud- and particle-encounter statistics and their application to LPC aircraft studies. Volume 1: Analysis and conclusions
[NASA-TM-85835] 24 p3923 N84-34828
DAVIS, R. F.
Fundamental studies of growth, doping and transformation in beta silicon carbide
[AD-A139179] 14 p2241 N84-24458
Fundamental studies of growth, doping and transformation in beta silicon carbide
[AD-A140924] 17 p2769 N84-27582
DAVIS, R. H.
Contingency power concepts for helicopter turboshaft engine
[NASA-TM-83679] 14 p2109 N84-23648
Rotorcraft contingency power study
[NASA-CR-174675] 15 p2261 N84-24580
DAVIS, R. L.
ALESEP: A computer program for the analysis of airfoil leading edge separation bubbles
[NASA-CR-172310] 13 p1926 N84-22537
Energy efficient engine high-pressure turbine supersonic cascade technology report
[NASA-CR-165567] 18 p2796 N84-27739
Analysis of airfoil transitional separation bubbles
[NASA-CR-3791] 20 p3126 N84-29854
DAVIS, R. M.
Publication in professional journals in science and engineering: A survey of editorial procedures and opinion
[AD-A138913] 13 p2064 N84-23385
DAVIS, S. B.
Near-term Brayton module status 18 p2874 N84-28246
DAVIS, S. F.
Adaptive finite element methods for parabolic partial differential equations
[NASA-CR-174490] 03 p0417 N84-12727
TVD finite difference schemes and artificial viscosity
[NASA-CR-172373] 19 p3082 N84-29559
DAVIS, S. H.
Thermocapillary flows and their stability: Effects of surface layers and combination
[NASA-CR-170962] 08 p1155 N84-17522
Fundamentals of non-Newtonian liquid flow on surfaces
[AD-A135543] 08 p1158 N84-17541
DAVIS, T. J.
Development and flight test of a helicopter compact, portable, precision landing system concept
[NASA-TM-85951] 15 p2259 N84-24566
DAVIS, W. C.
Optical properties of explosive-driven waves in noble gases
[DE83-015236] 01 p0082 N84-10536
Fundamental research on explosives
[DE84-001201] 09 p1290 N84-18425
DAVIS, W. E.
Estimating long-term mean winds from short-term wind data
[DE83-017417] 03 p0412 N84-12693
Potential transport errors in single-layer wind fields
[DE84-003446] 11 p1675 N84-20932
Weather pattern climatology of the US
[DE84-005883] 11 p1688 N84-21011
DAVIS, W. M.
LANDSAT-4 horizon scanner performance evaluation
[E84-10079] 07 p1022 N84-16626
DAVIS, W. T.
Portable dynamic pressure generator for static and dynamic calibration of in situ pressure transducers
[NASA-TM-85687] 01 p0083 N84-10538
Proposed fast-response oxygen monitoring and control system for the Langley 8-foot high-temperature tunnel
[NASA-TP-2218] 02 p0223 N84-11460
Missile rolling tail brake torque system
[NASA-CASE-LAR-12751-1] 07 p0961 N84-16231
A system for controlling the oxygen content of a gas produced by combustion
[NASA-CASE-LAR-13257-1] 22 p3546 N84-32447
DAVISON, L.
Numerical modeling of dynamic material response
[DE83-016233] 02 p0232 N84-11524
DAVISON, M. E.
Effects of dissipation in one-dimensional inverse problems
[DE83-017692] 03 p0362 N84-12353
DAVISSON, W. I.
The make or buy decision--its nature and impact
[AD-P002779] 13 p2054 N84-23326
Increasing the Contractor/Subcontractor/Vendor bidding lists
[AD-P002836] 13 p2063 N84-23381
Evaluating the availability, role, and performance of subcontractors in the aerospace industry
[AD-A141408] 19 p3114 N84-29788
DAVISTER, M. D.
The post-buckling equilibrium and the dynamic collapse of complex hyperstatic pin-jointed lattices and reticulated shells 21 p3417 N84-31667
DAVY, J. E.
Survey of design tools for passive and hybrid low energy buildings 16 p2516 N84-26147
DAVYDENKO, E.
Impact of Latvian Robotics Institute on industry modernization 14 p2188 N84-24110
DAVYDKIN, A. F.
Changes in some rheological parameters of blood in experiments simulating weightlessness 07 p1044 N84-16774
DAVYDOV, B. I.
Prediction of vomiting in dogs exposed to radiation with shielding of midabdomen 02 p0261 N84-11710
Some aspects of dosimetry in studies of biological effects of nonionizing electromagnetic radiation 15 p2375 N84-25248
Review of book on space radiobiology 15 p2378 N84-25270
Rat behavior in selection of negative stimulus: Pain or exposure to electromagnetic field 20 p3255 N84-30657
DAVYDOV, Y. M.
Separation flow past bodies with fixed separation sites 13 p1970 N84-22784
DAWICKE, D.
High strain rate characterization of materials
[AD-A134342] 07 p1016 N84-16593
DAWICKE, D. S.
A total life prediction model for stress concentration sites
[NASA-CR-168225] 01 p0094 N84-10612
DAWKINS, W. P.
User's guide: Computer program for analysis of two-dimensional beam-columns with nonlinear supports (CBNTBM)
[AD-A143170] 21 p3466 N84-31974
DAWN, F. S.
Absorbent product and articles made therefrom
[NASA-CASE-MSC-18223-2] 02 p0269 N84-11758
DAWSON, J. M.
Prospects of the surfatron laser plasma accelerator
[DE84-005463] 11 p1738 N84-21336
Computer modeling of fast collisionless reconnection
[DE84-006714] 14 p2229 N84-24367
Study of generalized toroidal cusp configurations
[DE84-006662] 14 p2229 N84-24369
Plasma simulation studies of electron acceleration for beat wave and single frequency-laser heating schemes
[DE84-009988] 20 p3305 N84-30992
DAWSON, L. R.
Axial-channeling studies of strained layer superlattices
[DE83-013309] 01 p0154 N84-11010
An In0 2Ga0 8As/GaAs, modulation-doped, strained-layer superlattice field-effect transistor
[DE84-000136] 06 p0924 N84-16006
Irradiation of optimized, MBE grown, AlGaAs radiation hardened photodiode
[DE84-008034] 21 p3504 N84-32208
Superlattice structures grown by molecular beam epitaxy
[DE84-011288] 21 p3505 N84-32209
DAWSON, P. J.
Meteorological and climatological approach in determining snowpack accumulation at snow course sites in a Montana watershed
[PB83-226852] 01 p0110 N84-10714
DAY, D. E.
Reliability studies of ceramic capacitors
[AD-A136378] 09 p1287 N84-18403
MEA/A-1 experiment 81F01 conducted on STS-7 flight, June 1983. Containerless processing of glass forming melts
[NASA-CR-171048] 19 p2997 N84-28993
DAY, D. R.
The role of boundary layer capacitance at blocking electrodes in the interpretation of dielectric cure data in adhesives
[AD-A142188] 19 p3016 N84-29121
DAY, E.
Shock isolated accelerometer
[AD-P002692] 11 p1660 N84-20827
DAY, G. W.
Measurement of multimode optical fiber attenuation
[PB83-151207] 05 p0748 N84-14913
Optical fiber characterization: Attenuation, frequency domain bandwidth, and radiation patterns, volume 2
[PB84-158914] 14 p2226 N84-24357
Measurement of multimode optical fiber attenuation: An NBS special test service
[PB84-192202] 21 p3499 N84-32179
DAY, J. H., JR.
Preflight study of San Marco D/L GaAs solar cell panels 19 p3047 N84-29334
San Marco D/L solar array system design and performance
[NASA-TM-86125] 24 p3916 N84-34795
DAY, R. H.
Keynesian chaos
[AD-A132836] 05 p0760 N84-14987
DAY, W. B.
Linear and nonlinear aspects of rotordynamics 06 p0929 N84-16034
DAYAN, M.
Measurement of rolling friction by a damped oscillator
[NASA-TP-2257] 04 p0543 N84-13577
DAYHOFF, M. O.
Investigation of compounds essential for the origin of life
[NASA-CR-173538] 15 p2378 N84-25272
DAYMAN, B.
Demonstration of the coast-down technique for determining train resistances
[NASA-CR-173468] 12 p1765 N84-21515
DAYNEKO, V. I.
The start-up of a gas turbine engine using compressed air tangentially fed onto the blades of the basic turbine
[NASA-TM-77021] 07 p1012 N84-16563

DAYTON, G. O.
Tape casting of Honeywell PZT type 3 powder
[AD-A144215] 24 p3888 N84-34623
DAYVAULT, R. D.
Uranium anomalies in Wyoming and parts of adjacent states. National Uranium Resource Evaluation
[DE83-005353] 06 p0866 N84-15638
DAZAI, M.
Non-metallic optical cable with optical fiber catenary for long span aerial application 11 p1722 N84-21235
DE SILVA, R.
Some experiences with gasp-like microcomputer simulation languages in FORTRAN, Pascal, and Ada
[AD-A134543] 07 p1055 N84-16832
DE, S.
On the face-shear vibrations of contoured crystal plates 10 p1511 N84-19891
DEA, J. Y.
Constant-output atomizer
[NASA-CASE-MFS-25631-1] 03 p0370 N84-12406
DEACON, D. A. G.
Transverse mode dynamics in a free electron laser
[AD-A137738] 11 p1662 N84-20845
New results of the ACO storage ring free electron laser
[AD-A137785] 11 p1663 N84-20848
Evolution of the transverse modes in a FEL (Free Electron Lasers), and application to the Orsay experiment
[AD-A137797] 11 p1663 N84-20849
Progress and problems in storage ring free electron lasers
[AD-A138683] 13 p1995 N84-22946
Anomalous laser induced bunch lengthening on the ACO storage ring free electron laser
[AD-A138814] 13 p1995 N84-22949
UV and VUV degradation of very high reflectivity mirrors for use in a storage ring free electron laser
[AD-A138740] 13 p2043 N84-23255
Measurement of the transverse mode excitation in the stimulated emission of the ACO free electron laser
[AD-A143449] 22 p3601 N84-32808
DEACON, J.
RSRE speech data base recordings (1983). Part 1: Specification of vocabulary and recording procedure
[AD-A139361] 15 p2318 N84-24916
DEADMORE, D. L.
Application of induction coil measurements to the study of superalloy hot corrosion and oxidation
[NASA-TM-83560] 07 p0974 N84-16311
Effects of alloy composition on cyclic flame hot-corrosion attack of cast nickel-base superalloys at 900 deg C
[NASA-TP-2338] 17 p2622 N84-26783
In-situ measurements of alloy oxidation/corrosion/erosion using a video camera and proximity sensor with microcomputer control
[NASA-TM-83673] 18 p2813 N84-27859
DEADRICK, D. S.
Digital signal processing 22 p3684 N84-33357
DEAGUIAR, O. D.
The efficiency of wood as a passive shield for particles and photons of 0.5 to 4.6 MeV between 940 and 377 mb
[INPE-2900-TDL/146] 17 p2764 N84-27554
DEAKYNE, C. A.
A molecular orbital study of atmospherically important species
[AD-A133656] 05 p0649 N84-14267
DEAL, P. L.
Simulator study of flight characteristics of a large twin-fuselage cargo transport airplane during approach and landing
[NASA-TP-2183] 03 p0337 N84-12190
DEALBUQUERQUE, P. C. G.
Orbital imagery: A cartographic solution
[INPE-2820-PRE/374] 15 p2357 N84-25143
DEALMEIDA, F. C.
Geostationary meteorological satellite image navigation
[INPE-2772-RPE/435] 07 p1023 N84-16632
The management of atmospheric resources in food production
[INPE-3121-PRE/514] 16 p2526 N84-26231
Research and applications of data from environmental satellites: Determining parameters and developing interpretation techniques for applications of environmental satellite data
[INPE-3005-NTE/213] 17 p2711 N84-27261
A system for managing meteorological data
[INPE-3029-PRE/466] 17 p2733 N84-27373
A national program for data collection platforms: Information techniques for users
[INPE-3137-NTE/219] 24 p3858 N84-34456
DEAN, A. J.
Multifrequency observations of three active galaxies 24 p3972 N84-35151
DEAN, A. S.
The calibration and flight test performance of the space shuttle orbiter air data system 01 p0026 N84-10165
DEAN, E.
LANDSAT-4 MSS and TM spectral class comparison and coherent noise analysis 20 p3208 N84-30381
LANDSAT-4 MSS and Thematic Mapper data quality and information content analysis 23 p3766 N84-33871
DEAN, G.
An optical technique for assessing the long-term accuracy of lateral extensometers
[NPL-DMA(A)-78] 19 p3026 N84-29190
DEAN, J. S.
An informal study of program comprehension
[AD-A142224] 19 p3079 N84-29534
DEAN, M. A.
The effect of periodic overloads on flight-by-flight fatigue crack growth rates
[AD-A136407] 09 p1255 N84-18192
DEAN, T.
Time map maintenance
[AD-A137236] 10 p1567 N84-20268
Influence of diluents and inhibitors on detonations
[DE84-006300] 22 p3548 N84-32483
DEANDRADE, C. M.
Equipment for measuring the distance of satellite in low orbit
[INPE-3126-PRE/517] 16 p2455 N84-25739
DEANE, C. W.
Heat transfer retardation at elevated temperatures. Phase 1: Analysis of heat transfer retardation configurations and materials
[AD-A133509] 06 p0926 N84-16017
DEANE, E. M.
A comparative study of the fatty acid composition of prochloron lipids 10 p1544 N84-20115
DEANGELIS, H. M.
Influence of oxygen on defect production in electron-irradiated, boron-doped silicon 19 p3045 N84-29320
DEANGELIS, R.
An improved analysis of the thermal buckling of silicon sheet 18 p2938 N84-28633
DEANGELIS, R. J.
Structural characterization of dispersed metal catalysts
[DE83-017145] 03 p0354 N84-12305
DEANGELIS, T.
A simulation process for determining reliability of cyclic random loaded structures
[AD-P003849] 24 p3939 N84-34936
DEAR, J. P.
Liquid impact erosion mechanisms in transparent materials
[AD-A135891] 09 p1287 N84-18405
DEARAUJO, F. X.
An IUE study of Be stars with Fe 2 emissions in the visible 24 p3976 N84-35186
DEARDOFF, D. D.
Magnetic refrigeration development 22 p3573 N84-32626
DEARING, M. P.
The VAX/VMS device driver and user operation program for the Midwestern Astronomical Data Reduction and Analysis Facility PDS microdensitometer 18 p2841 N84-28036
DEARS, W.
Rapid runway repair program subtask 1.07 - rapid concrete cutting
[AD-A131771] 03 p0338 N84-12195
DEASE, C. G.
Computer-generated movie on the short pulse electromagnetic behavior of wire objects
[DE84-012032] 20 p3175 N84-30162
DEASON, G. A.
Design guidelines for carbon dioxide scrubbers
[AD-A130459] 01 p0117 N84-10761
DEASSIS, O. R.
Forest inventory using multistage sampling with probability proportional to size
[E84-10144] 16 p2507 N84-26092
DEASSUNCAO, G. V.
Irrigated rice area estimation using remote sensing techniques: Project's proposal and preliminary results
[E84-10131] 16 p2506 N84-26081
DEATH, M. D.
Evolution from a hinge actuator mechanism to an antenna deployment mechanism for use on the European large communications satellite (L-SAT/OLYMPUS) 15 p2347 N84-25084
DEAVEN, D.
Operational numerical weather prediction on the CYBER 205 at the National Meteorological Center 10 p1559 N84-20211
DEB, S. K.
CdS/CuInSe2 heterojunction cell research
[DE84-004508] 22 p3618 N84-32926
DEBAAS, A. F.
Internal gravitation waves in a stably stratified atmosphere
[KBMI-WR-84-1] 15 p2368 N84-25206
DEBAILLE
Performance evaluation of circuit switching for data networks
[ENST-C-83001] 07 p1056 N84-16842
DEBAKKER, J. W.
Foundations of computer science 4. Distributed systems. Part 1: Algorithms and complexity
[MATH-CENTRE-TRACTS-158-PT-1] 08 p1207 N84-17873
Foundations of computer science 4. Distributed systems. Part 2: Semantics and logic
[MATH-CENTRE-TRACTS-159-PT-2] 08 p1208 N84-17879
Processes and the denotational semantics of concurrency 08 p1208 N84-17881
Compactness in semantics for merge and fair merge
[MC-IW-238/83] 13 p2035 N84-23199
DEBANY, W. H., JR.
Probability expressions, with applications to fault testing in digital networks
[AD-A131367] 02 p0284 N84-11860
DEBARBIERI, O.
Crank-Nicholson difference schemes for solving coupled systems of nonlinear diffusion equations
[IPP-6/223] 03 p0424 N84-12776
DEBARROSAGUIRRE, J. L.
The INPE handouts to the 6th LANDSAT Technical Working Group (LTWG) Meeting
[E84-10176] 21 p3427 N84-31738
DEBEER, E. J. H.
Hazardous location identification by computer
[CSIR-TR-RF/6/81] 04 p0578 N84-13814
DEBEIR, M.
The Spacelab flight unit offgassing test
[ESA-STM-232] 23 p3701 N84-33460
DEBELLIS, D. E.
State of technology of direct contact heat exchanging
[DE84-012824] 21 p3402 N84-31585
DEBICCARI, A.
Feasibility of remotely manipulated welding in space. A step in the development of novel joining technologies
[NASA-CR-175437] 11 p1664 N84-20857
DEBIEZ
Influence of copper on MAG deposits
[CETIM-12-Y-431] 21 p3369 N84-31375
DEBLASIO, R.
Advanced photovoltaic system simulator to demonstrate the performance of advanced photovoltaic cells and devices
[DE83-009405] 08 p1180 N84-17688
DEBNAM, W. J.
Characterization of the general purpose research furnace for low-G directional solidification experiments
[NASA-TM-85718] 04 p0489 N84-13211
DEBNATH, N. C.
A study of the application of software metrics to COBOL
[AD-A141467] 19 p3076 N84-29516
DEBOER, B. T.
Behaviour of four non-migratory antioxidants in solid polyethylene insulation 11 p1721 N84-21228
DEBOER, E.
Three-dimensional boundary layer calculations on wings, starting from the fuselage
[NLR-MP-82060-U] 09 p1317 N84-18603
DEBOER, K. S.
The diffuse interstellar medium in the Magellanic clouds (review) 24 p3974 N84-35163
UV-bright stars in galactic globular clusters, their far-UV spectra and their contribution to the globular cluster luminosity 24 p3974 N84-35164
DEBOER, R.
Wave propagation in elastic-viscoplastic bodies
[REPT-23] 19 p3034 N84-29242
DEBOER, R. T.
Use of plain copper conductors in lieu of tinned-copper for internal cables 11 p1719 N84-21213
DEBOER, T. A.
Hot spot reflectance measurements applied to green biomass estimation and crop growth monitoring
[NLR-MP-83037-U] 17 p2721 N84-27323
DEBOER, U. P.
Reprogrammable onboard mission of IRAS
[NLR-MP-83014-U] 13 p1937 N84-22600
DEBOLD, F. C.
Testing of candidate batteries for global positioning system 23 p3736 N84-33677
High rate discharge studies of Li/SO2 batteries 23 p3737 N84-33680

DEBONA, B. T.
New high performance windshield/canopy materials
[AD-P003199] 17 p2592 N84-26612
DEBONI, T. M.
Simulation of shock-induced energy flux in molecular solids
[DE84-001157] 04 p0613 N84-14047
De-excitation and equipartition in H2-surface collisions
[DE84-003008] 08 p1229 N84-18031
Simulation of shock-induced energy flux in molecular solids, revision 1
[DE84-008331] 15 p2304 N84-24827
DEBOO, J. C.
High power neutral beam heating on Doublet 3
[DE84-012471] 21 p3501 N84-32186
DEBOOR, C.
A geometric proof of total positivity for spline interpolation
[AD-A141606] 19 p3085 N84-29583
DEBRITO, J. I. B.
On the 1983 drought in Northeast Brazil
[INPE-3110-PRE/509] 16 p2528 N84-26229
Interannual variations of rainfall in northeast Brazil and their connections with the large-scale features
[INPE-3207-PRE/565] 21 p3447 N84-31868
DEBROY, T.
Heat transfer, fluid flow and element vaporization in laser welding
[DE84-011783] 22 p3605 N84-32839
DEBRUCQ, D.
Identification of a class of filtered Poisson processes
[AD-A134970] 08 p1221 N84-17969
Random field satisfying a linear partial differential equation with random forcing term
[AD-A141886] 19 p3088 N84-29606
DEBRUIJN, A.
Measurements of the impulse response and reverberation underwater in the depressurized towing tank MARIN
[TPD-208.730/1] 12 p1900 N84-22374
DEBRUIN, H. A. R.
On the estimation of zero-plane displacement for tall vegetation
[INPE-2946-PRE/430] 07 p1023 N84-16634
DEBRUYN, R.
Investigation of the characteristics of the ECMWF model using the P27 system
[KNMI-TR-39] 12 p1861 N84-22127
DEC.R.ALVES, H. O.
SIRIUS: Bibliographic search and retrieval system
[INPE-2771-PRE/344] 15 p2417 N84-25512
DECARVALHO, P. R. A.
A national program for data collection platforms: Information techniques for users
[INPE-3137-NTE/219] 24 p3858 N84-34456
DECASTRO, J. J. B.
Synthesis of MIG-type electron guns for gyrotrons
[INPE-3191-PRE/555] 21 p3391 N84-31517
DECHANT, G.
Calibration and performance of a high-resolution gamma-spectroscopy system
[DE84-012792] 22 p3548 N84-32462
DECHAUMPHAI, P.
Finite element thermal-structural analysis of cable-stiffened space structues
[NASA-CR-173709] 18 p2852 N84-28108
DECHELLE, F.
Optical properties of amorphous silicon: Some problem areas
[DE84-701201] 24 p3964 N84-35102
DECHICHIO, D.
Application of methods of numerical and software engineering analysis to physical and engineering data collected in a variety of laboratory and field measurement programs
[AD-A137863] 11 p1682 N84-20975
DECICCO, J.
Artificial upwelling driven by salinity differences in the ocean
[DE84-000086] 15 p2374 N84-25244
DECKER, A. J.
Measurement of fluid properties using rapid-double-exposure and time-average holographic interferometry
[NASA-TM-83630] 12 p1818 N84-21849
DECKER, G.
Schlieren diagnostics at SPEED 1
10 p1583 N84-20373
Breakdown phenomena in SPEED 1
10 p1583 N84-20374
DECKER, R.
Weak corrections to the e+e-yields mu+mu-asymmetry
[DO-TH-83-16] 20 p3297 N84-30939
DECOCK, J.
Stresses in cylindrical shells with nozzles subjected to external loadings and internal pressure
[CRIF-MT-156] 07 p1017 N84-16597
DECONCHY, Y.
The ISPM unified radio and plasma wave experiment
09 p1262 N84-18237
DECORDOBA, S. F.
Ultraviolet study of the stellar population of the giant extragalactic HII region NGC 604
24 p3971 N84-35145
DECREAU, P.
Observations of the GEOS-2 equilibrium potential and its relation to the ambient electron energy distribution
08 p1116 N84-17256
Comparison of thermal plasma observations on SCATHA and GEOS 08 p1117 N84-17262
DEEL, G. G.
Grounding ring for shielded cable
[AD-D011135] 22 p3581 N84-32675
DEEM, R. N.
Unified database development program
[AD-A140309] 16 p2567 N84-26471
DEEPAK, A.
Forward multiple scattering corrections as function of detector field of view
[AD-A130631] 01 p0106 N84-10686
Development of a global model for atmospheric backscatter at CO2 wavelengths
24 p3924 N84-34838
DEER, G. W.
Compendium of abstracts on statistical applications in geotechnical engineering
[AD-A136355] 09 p1297 N84-18478
DEERING, D. W.
Fundamental remote sensing science research program. Part 1: Scene radiation and atmospheric effects characterization project
[NASA-TM-86078] 12 p1830 N84-21929
Comprehensive understanding for vegetated scene radiance relationships 12 p1830 N84-21933
Comprehensive understanding for vegetated scene radiance relationships 12 p1833 N84-21947
DEES, D. W.
Mass transfer at gas-evolving surfaces in electrolysis
[DE84-002567] 05 p0651 N84-14282
DEFA, W.
Microwave measurements of azimuthal asymmetries in accelerating fields of disk-loaded waveguides
[DE83-012705] 02 p0210 N84-11373
DEFAUX, M.
French firm uses unique flexible workshop with laser cutter 22 p3651 N84-33143
DEFAZIO, T. L.
Feedback in robotics for assembly and manufacturing
[PB84-177112] 17 p2675 N84-27044
DEFIGUEIREDO, D. G.
On the superlinear Ambrosetti-Prodi problem
[AD-A130574] 01 p0130 N84-10849
Remarks on the Ambrosetti-Prodi problem
[AD-A139237] 14 p2212 N84-24282
On pairs of positive solutions for a class of semilinear elliptic problems
[AD-A141504] 19 p3084 N84-29574
A maximum principle for an elliptic system and applications to semilinear problems
[AD-A141600] 19 p3085 N84-29581
DEFILIPPI, R. P.
Supercritical fluid regeneration of adsorbents
[PB83-207597] 01 p0058 N84-10377
DEFREITAS, A. G.
Preparation of anhydrous hydrazine
[INPE-2806-PRE/366] 02 p0203 N84-11320
Improvements in the process of dehydrating hydrazine by sodium hydroxide
[INPE-3198-PRE/561] 23 p3712 N84-33531
DEFREITAS, U. M.
SIRIUS: Bibliographic search and retrieval system
[INPE-2771-PRE/344] 15 p2417 N84-25512
DEGARRIDO, J. C. P.
Digital transmission and visualization of meteorological satellite images
[INPE-2809-PRE/367] 02 p0239 N84-11567
DEGEER, L. E.
Measurement of small amounts of xenon-133 in air: Report on a series of measures and tests in Stockholm and in Ljungbyhed
[FOA-C-20515-A1] 15 p2366 N84-25197
DEGENHARDT, H.
Precision forging of front fan blades, abridged version
[BMFT-FB-T-83-205] 10 p1472 N84-19613
DEGLORIA, S. D.
Estimating temperature and moisture regimes in forest and rangeland soils using thermal remote sensing
[PB83-237453] 02 p0241 N84-11577
Characterization of LANDSAT-4 TM and MSS image quality for interpretation of agricultural and forest resources 20 p3213 N84-30411
DEGODOI, S. S.
Study of the seasonal variation of the tropical ocean front between the Brazil Current and the Malvinas Current, using oceanographic and SMS-2 satellite data
[INPE-2780-TDL/137] 10 p1539 N84-20082
Seasonal oscillations of the subtropical convergence between the Brazil and Malvinas currents, using oceanographic and SMS-2 satellite data
[INPE-3092-PRE/497] 16 p2532 N84-26255
DEGOER, J.
Directional solidification of Al2-Cu-Al and Al3-Ni-Al eutectics during TEXUS rocket flight
[NASA-TM-77552] 24 p3883 N84-34602
DEGREZ, G.
Three dimensional/boundary layer interaction: Laminar and turbulent behaviour
[AD-A137060] 10 p1493 N84-19765
DEGRIP, W. J.
Crystallization of the membrane protein rhodopsin
23 p3804 N84-34120
DEGROCT, W. A.
Heterogeneous diffusion flame stabilization: Constant density results 13 p1952 N84-22689
DEGROOF, H.
Measuring landscape information content and distribution on a SAR-580 image
03 p0397 N84-12596
DEGROOT, A. J.
Praxis language environment: Distribution-package description
[DE83-017546] 03 p0421 N84-12750
DEGROOT, J.
Tolerance analysis and related measurements on MVL-CCD's (Multiple-valued-Charge-Coupled Devices)
[AD-P002346] 14 p2191 N84-24137
DEGROOT, M. H.
Comparing probability forecasters: Basic binary concepts and multivariate extensions
[AD-A135966] 09 p1377 N84-18998
DEGTYAREVA, I. V.
Thermodynamic activity of carbon in solid nickel
[BLL-M-35192-(5828.4)] 01 p0040 N84-10258
DEHAAN, D.
Pressure compensated force transducer
17 p2629 N84-26817
DEHAAN, R. L.
Radiofrequency radiation effects on excitable tissues
[AD-A137772] 11 p1695 N84-21056
DEHMER, J. L.
Photoelectron studies of resonant multiphoton ionization of CO via the A-1 Pi state
[DE83-008535] 06 p0916 N84-15956
Shape resonances in molecular fields
[DE84-009206] 15 p2406 N84-25443
Photoelectron studies of excited molecular states: H2 C (1)Pi(sub u) and N2 o3 (1)Pi(sub u)
[DE84-006663] 20 p3294 N84-30917
Photoionization of excited molecular states using multiphoton excitation techniques
[DE84-004034] 20 p3296 N84-30925
High-resolution spectroscopy and dynamics of multiphoton processes in atoms and molecules
[AD-A143017] 21 p3359 N84-31303
Triply differential studies of atomic and molecular photoionization using synchrotron radiation
[AD-A142834] 21 p3493 N84-32133
DEHMER, P. M.
Molecular photoionization studies
[DE83-014283] 02 p0291 N84-11905
Photoelectron studies of resonant multiphoton ionization of CO via the A-1 Pi state
[DE83-008535] 06 p0916 N84-15956
Photoelectron studies of excited molecular states: H2 C (1)Pi(sub u) and N2 o3 (1)Pi(sub u)
[DE84-006663] 20 p3294 N84-30917
Photoionization of excited molecular states using multiphoton excitation techniques
[DE84-004034] 20 p3296 N84-30925
High-resolution spectroscopy and dynamics of multiphoton processes in atoms and molecules
[AD-A143017] 21 p3359 N84-31303
DEHNE, K.
The spatial and temporal distribution of diffuse and direct solar radiation in the Federal Republic of Germany
[BMFT-FB-T-84-125] 23 p3802 N84-34110
DEHON, R. A.
Progressive impact cratering
13 p2078 N84-23469
Inversion of topography in Martian highlands terrains
13 p2086 N84-23512

DEHOOP, A. T.
Reflection and transmission of electromagnetic waves at a rough interface between two different media
[PB83-217588] 06 p0826 N84-15389
DEHOPE, W. J.
Development program for a 200kW, CW gyrotron
[DE84-007945] 14 p2149 N84-23874
DEHORITY, D. C.
Microwave remote sensing of ocean surface wind speed and rain rates over tropical storms
17 p2716 N84-27288
DEIBLER, L.
Weapons file
[AD-A142508] 20 p3128 N84-29867
DEICHELBOHRER, P. R.
Electric arc saw apparatus
[DE84-006153] 20 p3198 N84-30308
DEININGER, W. D.
Test bed ion engine development
[NASA-CR-174623] 11 p1624 N84-20632
DEIS, G. A.
Development of an engineering-scale nuclear test of a solid-breeder fusion-blanket concept
[DE83-016861] 01 p0151 N84-10992
DEIWERT, G. S.
Three-dimensional flow over a conical afterbody containing a centered propulsive jet: A numerical simulation 10 p1560 N84-20222
A practical adaptive-grid method for complex fluid-flow problems
[NASA-TM-85989] 19 p2958 N84-28745
DEJAGER, C.
The ISPM solar-flare X-ray and cosmic gamma-ray burst experiment 09 p1262 N84-18238
DEJARNETTE, F. R.
Effects of aircraft and flight parameters on energy-efficient profile descents in time-based metered traffic
[NASA-CR-172338] 17 p2604 N84-26685
DEJESUS, O. T.
Measurements, in vivo, of parameters of the dopamine system
[DE83-017964] 03 p0414 N84-12709
DEJESUSPARADA, N.
UNISPACE-82: Recommendations addressed to member states on the development of indigenous capabilities and follow-up actions for their implementation
[INPE-2915-PRE/427] 07 p1087 N84-17071
DEJONG, G.
Artificial intelligence implications for information retreival
[AD-A131382] 02 p0278 N84-11821
Untutored concept learning
[AD-A133766] 05 p0732 N84-14808
An expert distributed robotics system with comprehension and learning abilities in the aircraft flight domain
[AD-A139826] 15 p2384 N84-25300
DEJONG, H. F.
Rapid solidification processing of Al-Cu-Li-Mg alloys
[VTH-LR-380] 10 p1464 N84-19560
DEJONG, J.
The use of aquatic plants to purify waste water in recreational waters
[REPT-226] 21 p3437 N84-31805
DEJONG, P.
Analyzing the roles of descriptions and actions in open systems
[AD-A133614] 06 p0905 N84-15878
DEJONG, R. G.
Comparison of statistical energy analysis and finite element analysis vibration prediction with experimental results 10 p1516 N84-19923
DEJONG, T.
A theory of filament wound pressure vessels
[VTH-LR-379] 10 p1503 N84-19823
DEJONGE, J. B.
The use of Arall in fuselage skins
[AD-B060831] 15 p2260 N84-24572
Review of aeronautical fatigue investigations in the Netherlands during the period March 1981 - February 1983
[AD-B082166] 16 p2502 N84-26057
DEJONGE, M. K.
Performance validation of Lear Siegler flight management systems 17 p2586 N84-26578
DEJONGH, J.
Air Force Academy Aeronautics Digest - Fall/Winter 1982
[AD-A135073] 08 p1099 N84-17145
Air Force Academy Aeronautics Digest
[AD-A142399] 20 p3125 N84-29849
DEJONGH, R. W.
Hot spot reflectance measurements applied to green biomass estimation and crop growth monitoring
[NLR-MP-83037-U] 17 p2721 N84-27323
DEJONGHE, L. C.
Fast diffusion of iron in single crystal rutile and iron doped rutile
[DE84-004021] 08 p1236 N84-18079
Solid electrolyte degradation: Problems and solutions
[DE84-002916] 10 p1457 N84-19514
DEJUS, R.
Lattice dynamics of the mixed-conducting intermetallic compound alpha-LiAl
[DE83-014334] 05 p0756 N84-14959
DEKHTYAREVA, K. I.
Distribution of craters of various age on Martian surface 19 p2976 N84-28862
DEKIEFFER, R.
Passive solar manufactured buildings development and analyses 16 p2514 N84-26137
DEKKER, G. J.
Functional requirements for the development and use of a software-cost database
[AD-B079998] 12 p1885 N84-22287
A cost data base for the development of technical/scientific software
[NLR-TR-83047-U] 18 p2922 N84-28529
DEKONING, A. U.
New analytical methods for the prediction of fatigue crack growth under realistic loading
[NLR-MP-82055-U] 09 p1335 N84-18713
The application of cold worked holes (in aircraft structures)
[NLR-TR-81120-U] 13 p2002 N84-22990
Results of a study of residual stresses and fatigue crack growth in lugs with expanded holes
[NLR-MP-83024-U] 15 p2349 N84-25100
Analysis of deformation and stresses near cold worked holes
[NLR-TR-82113-U] 15 p2349 N84-25101
The K-distributions extrapolated on the basis of stress intensity rates
[NLR-MP-83048-U] 17 p2680 N84-27073
DELAAT, J. C.
A real-time implementation of an advanced sensor failure detection, isolation, and accommodation algorithm
[NASA-TM-83553] 04 p0477 N84-13140
DELABOUDINIERE, J. P.
Thin metal film and multilayers experiment (A0138-3)
15 p2278 N84-24680
DELACHE, P.
Detection of solar gravity mode oscillations
[NASA-CR-174469] 01 p0165 N84-11086
DELAGRANGE, A. D.
An active filter primer
[AD-A134838] 08 p1152 N84-17498
DELAHARPE, P.
Determinants connected with a trace on a Banach algebra 22 p3635 N84-33036
DELAHAY, P.
Dispersion spectroscopy of optical electron transfer in solution
[AD-A139101] 14 p2121 N84-23713
Inner-sphere reorganization in optical electron transfer
[AD-A139722] 15 p2405 N84-25435
Gas-liquid correlation of ionization energies
[AD-A141255] 18 p2930 N84-28578
Solvation and dielectric dispersion in optical electron transfer
[AD-A144183] 24 p3880 N84-34580
DELAHAYE, B.
Determination of the stable operating conditions of an axial flow compressor 16 p2490 N84-25971
DELALE, C. F.
Two-dimensional supersonic expansion flows on walls with nonequilibrium condensation
08 p1096 N84-17125
DELALE, F.
Effect of stress singularities on the delamination of laminated composites 15 p2310 N84-24858
DELANEY, C. L.
USAF shale oil program status
14 p2107 N84-23633
DELANEY, I. C.
Component development
[DE84-005829] 11 p1634 N84-20681
Quality engineering and control
[DE84-011603] 20 p3150 N84-30001
DELANEY, J. R.
Tracking theory for airborne surveillance radars
[AD-A131792] 03 p0361 N84-12350
Distributed estimation in the MIT/LL (Massachusetts Institute of Technology/Lincoln Laboratory) DSN (Distributed Sensor Networks) test-bed
[AD-P002897] 13 p1980 N84-22856
DELANNAY, F.
Catalysed low-temperature production of methane from water and graphite
[DE83-012474] 02 p0203 N84-11325
DELANNES, B.
Experimental investigation of the effect of electrets on bone healing 23 p3809 N84-34150
DELANO, C. B.
Development of an impact- and solvent-resistant thermoplastic composite matrix
[NASA-CR-172285] 12 p1789 N84-21668
DELANO, J. W.
Origin of the Moon: In search of the holy grail
11 p1754 N84-21451
DELAROCHERE, M.
Ion-ion correlations and phase transitions in nascion type materials 11 p1743 N84-21375
DELASI, R. J.
Effect of space environment on space-based radar phased-array antenna (A0133) 15 p2271 N84-24638
DELATEUR, S. A.
LIDAR (light detection and ranging) measurements for astronomical refraction. Feasibility and system definition study
[AD-A130740] 01 p0147 N84-10966
DELCIAMPO, L. F.
The October 1983 recurrence of the outburst of the Orion water maser source and its past history
[INPE-2985-PRE/444] 07 p1088 N84-17076
DELCROIX, J. P.
A comparative study in the animal of the toxicity of the combustion products of diverse materials
22 p3632 N84-33015
DELEPLANQUE, M. A.
Nuclear moments of inertia at high spins
[DE84-005717] 14 p2224 N84-24345
DELERY, J.
Interaction between a shock-wave and a vortex flow
03 p0321 N84-12104
A coupling method for the inverse mode calculation of transonic internal flows with a shock wave
07 p0955 N84-16194
DELEVIE, R.
Study of the effect of adsorbed ions on the electrosorption of organic molecules and the kinetics of formation of condensed films
[AD-A137892] 11 p1730 N84-21286
DELFAU, J. L.
Mechanism of soot formation in preximed C2H2/O2 flames 13 p1958 N84-22727
DELGARDO, L.
Optical absorption and thermoluminescence in MgO:Ni and MgO:Li irradiated at room temperature
[JEN-556] 16 p2561 N84-26427
DELGASS, W. N.
CO + H/sub 2 reaction over nitrogen-modified iron catalysts
[DE84-009046] 15 p2288 N84-24727
DELGIUDICE, L.
Compatibilizing effect of a diblock copolymer of isotactic polystyrene and isotactic polypropylene in blends of the corresponding homopolymers
[AD-A143959] 23 p3724 N84-33601
DELHOTE, C.
Stationary stochastic processes
[ESA-TT-812] 06 p0905 N84-15875
DELIL, A. A. M.
Uniaxial model for gas-loaded variable conductance heat pipe performance: The effects of vapor flow, friction, and inertia 10 p1443 N84-19424
Uniaxial model for gas-loaded variable conductance heat pipe performance; the effects of vapor flow, friction and inertia
[NLR-MP-83058-U] 17 p2669 N84-27021
DELL, G. F.
Aperture studies of the BNL colliding beam accelerator with reduced superperiodicity
[DE84-002854] 19 p3103 N84-29713
DELLAMUSSIA, J. P.
Thomson semiconductors bipolar IC strategy to 1986
13 p2039 N84-23227
DELLOVO, A.
Development prospects for land mobile radio systems in Italy 10 p1477 N84-19650
DELMISTRO, R. F.
Hazardous location identification by computer
[CSIR-TR-RF/6/81] 04 p0578 N84-13814
DELMONTE, J.
Advanced strain-gage pressure transducer
[AD-A136063] 09 p1303 N84-18518
DELMUNDO, A. R.
SPF/DB primary structure for supersonic aircraft (T-38 horizontal stabilizer)
[NASA-CR-163114] 18 p2813 N84-27860

DELNICK, F. M.
Complex impedance of Ca/CaCrO4/Fe thermal batteries
[DE84-005507] 11 p1647 N84-20771
DELOMBARD, R.
Low-frequency switching voltage regulators for terrestrial photovoltaic systems
[NASA-TM-83625] 16 p2483 N84-25926
Photovoltaic power system for satellite Earth stations in remote areas: Project status and design description
[NASA-TM-83789] 23 p3730 N84-33642
DELONEY, J. R.
Job attitudes toward the new maintenance concept of the airway facilities service
[AD-A133282] 06 p0891 N84-15793
DELOOR, G. P.
Project Noorwidj. Part 4: The radar backscatter of oil spills as measured at platform Noordwijk
[PHL-1983-47] 17 p2725 N84-27344
Project Noordwijk, part 5: Analysis of the fading component of the radar backscatter
[AD-B083044] 19 p3010 N84-29082
DELOORE, C.
Coordinated X-ray, ultraviolet, optical, and infrared observations of the transient source A0535+26
24 p3961 N84-35219
DELORD, T. J.
Macrocycles containing tin. Synthesis and structure of 1,10-Diphenyl-1,10-Distannabicycle (8.8.8)Hexacosane
[AD-A142703] 20 p3145 N84-29966
DELORENZO, J. M.
Comparative analysis of government and private sector ADP acquisition
[AD-A144523] 24 p3969 N84-35131
DELORENZO, M. L.
Selection of noisy sensors and actuators for regulation of linear systems
[AD-A135442] 08 p1216 N84-17931
DELOREY, D.
The gaseous and plasma environment around space shuttle
[AD-A133900] 05 p0643 N84-14231
DELORGE, J.
Effects of pulsed microwaves at 1.28 and 5.62 GHz on Rhesus monkeys (Macaca mulatta) performing an exercise task at three levels of work
[AD-A132057] 03 p0413 N84-12704
A restraint chair with rowing-like movement for exposing exercising nonhuman primates to microwave irradiation
[AD-A132047] 03 p0413 N84-12705
Effect of pulsed 5.62 GHz microwaves on squirrel monkeys (Saimiri sciureus) performing a repeated acquisition task
[AD-A132045] 03 p0413 N84-12706
The assessment of nonionizing radiation hazards
[AD-P003294] 18 p2908 N84-28444
DELOUW, C.
Treatment of patients with a lesion of the brachial plexus 20 p3264 N84-30712
DELRE, E.
Application of the discrete cosine transform to remote sensing image data compression
23 p3779 N84-33964
DELSANTO, P. P.
Elastic wave scattering from cylindrical cavities and solid inclusions analyzed by the resonance method
[AD-P002971] 14 p2201 N84-24207
DELSEY, J.
The lead file: Car fuel additives
[INFORM-NOTE-29] 17 p2725 N84-27341
DELUCA, L.
Nonlinear burning stability of solid propellants
[AD-A143573] 22 p3562 N84-32554
DELUCA, P. M., JR.
Bone blood flow measured by (41)Ar clearance formed by (44)Ca(n,(-)) (41)Ar
[DE83-017600] 06 p0886 N84-15761
DELUCA, R. A.
Modular stellarator reactor: A Fusion power plant
[DE84-002268] 07 p1077 N84-17001
DELUCA, W. H.
Charge characteristics of Ni/Fe traction cells
[DE83-014205] 03 p0367 N84-12389
Comparative response of lead-acid and nickel-iron batteries to pulsed and constant-current loads
[DE83-017939] 03 p0368 N84-12395
Effects of standtime on the available capacity of lead-acid and nickel/iron electric vehicle batteries
[DE84-013452] 22 p3587 N84-32721
DELUCIA, F. C.
Millimeter and submillimeter wave research: Spectroscopy, energy transfer and techniques
[AD-A137884] 11 p1663 N84-20853
DELUISI, J. J.
Light scattering condensation nuclei, and air mass trajectories at Whiteface Mountain: Summer 1982
[PB84-104363] 08 p1188 N84-17742
DELWICHE, C. C.
Biogeochemical considerations
20 p3217 N84-30436
DEMACARIO, E. C.
Methane producing bacteria: Immunological characterization 19 p3064 N84-29438
DEMAIO, J.
Velocity control decision-making ability: Relationship to flying capability and experience
[AD-A136546] 09 p1363 N84-18901
Static versus dynamic presentation of visual cues in simulated low level flight
[AD-P003360] 18 p2913 N84-28473
Cognitive organization as a function of flying experience
[AD-A141767] 19 p3068 N84-29459
Pilot oriented performance measurement
[AD-P003450] 21 p3508 N84-32227
Visual cueing effectiveness: Comparison of perception and flying performance
[AD-P003458] 21 p3510 N84-32235
DEMARCHIS, G.
Economic study of long distance optical fibre links
[FUB-38-1982] 03 p0443 N84-12908
DEMAREE, J. E.
Extinguisher agent behavior in a ventilated small aircraft
[FAA-CT-83-30] 07 p0949 N84-16158
DEMARIA, M.
Experiments with a spectral tropical cyclone model
10 p1542 N84-20105
DEMASTUS, H. L.
Coronal transients in FE XIV 5303A: First two-dimensional photoelectric ground-based observations 03 p0466 N84-13072
DEMATTEO, J.
Direct measurement of Earth's vertical deflection using global positioning system
[AD-D011099] 22 p3534 N84-32373
Quick Deployment Vehicle (QDV)
[AD-D011060] 22 p3563 N84-32563
DEMAY, P.
Simulation and assimilation of satellite altimeter data at the oceanic mesoscale 17 p2720 N84-27312
DEMCHENKO, P. F.
Evaluation of probabilities of large deviations of climatic characteristics from present levels
17 p2697 N84-27179
Analytical model of latitudinal variation of dispersion and spectra of fluctuations of zonally averaged surface temperature 18 p2856 N84-28137
DEMEDEIROS, J. S.
Forest inventory using multistage sampling with probability proportional to size
[E84-10144] 16 p2507 N84-26092
DEMEDEIROS, V. M.
Mission analysis: Definition of orbital geometry of artificial satellites
[INPE-2843-TDL/141] 02 p0184 N84-11194
Recursive analysis of the geomagnetic vector field
[INPE-2865-PRE/400] 02 p0272 N84-11776
A semianalytic method of orbital propagation for mission analysis
[INPE-2748-PRE/324] 10 p1435 N84-19380
Optimal position of solar arrays on sunsychronous satellites
[INPE-3010-RPE/454] 17 p2614 N84-26732
DEMEL, H. F.
Installation of electric generators on turbine engines
01 p0010 N84-10061
DEMENGEL, F.
Bounded Hessian functions 22 p3636 N84-33048
DEMERDASH, N. A.
Improved transistor-controlled and commutated brushless DC motors for electric vehicle propulsion
[NASA-CR-168053] 01 p0069 N84-10450
Analysis, testing, and evaluation of faulted and unfaulted Wye, Delta, and open Delta connected electromechanical actuators
[NASA-CR-171808] 22 p3585 N84-32707
DEMETRIADES, A.
The hydrodynamic stability of a supersonic laminar boundary layer over a rough wall
[AD-A137056] 10 p1422 N84-19299
DEMETROVICS, J.
Selfdual classes and automorphism groups
[AD-P002341] 14 p2191 N84-24132
On free spectra of clones with sharply transitive automorphism groups
[AD-P002342] 14 p2191 N84-24133
DEMEY, J. P.
Cylindrical v-grooved non-metallic optical fibre cable
11 p1723 N84-21242
DEMIAN, B.
Optimization of GC/MS based Tenax collection method for toxic organics
[PB83-229476] 02 p0222 N84-11455
DEMIDENKO, T. A.
The flow of an electrorheological suspension in cells of different geometries
[RAE-TRANS-2111] 11 p1646 N84-20760
DEMIER, R.
Steam bottoming cycle for an adiabatic diesel engine
[NASA-CR-168255] 22 p3676 N84-33304
DEMIKHOVSKAYA, N. N.
Fracture of aluminum in uniaxial and biaxial extension at 473-77 deg K 12 p1783 N84-21635
DEMILLO, R. A.
Program mutation: An approach to software testing
[AD-A135775] 09 p1368 N84-18933
DEMIN, Y. L.
Seasonal variability of surface currents in world ocean
17 p2698 N84-27188
DEMING, D.
Thermal bifurcation in the upper solar photosphere inferred from heterodyne spectroscopy of OH rotational lines
[NASA-TM-86128] 17 p2781 N84-27654
DEMIRGIAN, J.
Determination of thermal-degradation rates of some candidate Rankine-cycle organic working fluids for conversion of industrial waste heat into power
[DE84-009585] 20 p3197 N84-30304
Investigation of thermal stability of fluorinol-85 and 2-methylpyridine-water as Rankine cycle power system working fluids
[DE84-006420] 22 p3562 N84-32559
DEMKO, S. G.
Spectral and invertibility properties of band matrices
[AD-A142637] 20 p3281 N84-30831
DEMMEL, J.
First stage of equipment for aircraft Do 28 of DFVLR as a research aircraft for icing and first research results
[DFVLR-FB-83-40] 15 p2259 N84-24571
DEMMEL, J. W.
A numerical analyst's Jordan canonical form
[AD-A130775] 01 p0133 N84-10873
DEMMER, W.
VLSI systems of digital signal processing for consumer applications
[BMFT-FB-T-84-060] 19 p3019 N84-29143
DEMOAES, R. V.
Comparison of analytical theories for studying the contraction of artificial satellite orbits
[INPE-2746-PRE/322] 22 p3540 N84-32409
DEMOEL, R. P.
Security, a set of rules or an approach
[NLR-MP-82047-U] 10 p1593 N84-20442
DEMOLLERAT, T.
Failure mode prediction analysis using the Reliability Information Software (RIF) 09 p1295 N84-18463
DEMONG, R. F.
Award fee contract provisions as a program management tool
[AD-P002776] 13 p2054 N84-23323
DEMONSABERT, S.
A guide to the Electrical Analysis Software System (EASS)
[AD-A144680] 24 p3947 N84-34998
DEMONVEL, L. B.
Annals of the Fourier Institute, volume 34, no. 1
[ISSN-0373-0956] 22 p3633 N84-33025
Annals of the Fourier Institute, volume 34, no. 2
[ISSN-0373-0956] 22 p3635 N84-33038
DEMORAES, R. V.
Comment on coupled perturbations on orbits of artificial earth satellites 19 p3119 N84-29824
DEMORAIS, P. R.
A numerical method for solving by approximation an advanced integro-differential equation
[INPE-2826-PRE/379] 02 p0279 N84-11830
Optimal design of a storage system with constant or linear release rate
[INPE-3125-PRE/516] 16 p2541 N84-26311
A problem in the optimal control of queueing workloads for the M/G/1 file
[INPE-3106-PRE/505] 16 p2546 N84-26339
The problem of determining the optimum policy for maintaining systems with spare machines and a number of variable servers
[INPE-3132-PRE/523] 23 p3833 N84-34312
An optimum policy for a system of maintenance with control by a repair time distribution
[INPE-3131-PRE/522] 23 p3833 N84-34313

DEMOULIN-ULRICH, M. H.
The broad absorption line region in NGC 4151
24 p3971 N84-35146
DEMPSEY, T. K.
Ride quality meter
[NASA-CASE-LAR-12882-1] 03 p0375 N84-12445
DEMUREN, A. O.
False diffusion in three-dimensional steady flow calculations
[KU-SFB-80/T/224] 17 p2669 N84-27017
DEMURIE, F.
High Reynolds number tests of the cast 10-2/DOA2 transonic airfoil at ambient and cryogenic temperature conditions 14 p2096 N84-23575
DEMURJIAN, S. A.
The implementation of a multi-backend database system (MDBS). Part 4: The revised concurrency control and directory management processes and the revised definitions of inter-process and inter-computer messages
[AD-A140674] 17 p2750 N84-27453
DEMUTH, O. J.
Available energy method for evaluating thermodynamic performance of heat pump systems
[DE84-005188] 10 p1494 N84-19766
Preliminary assessment of the velocity pump reaction turbine as a geothermal total-flow expander
[DE84-014749] 23 p3791 N84-34043
DENALE, R.
Effect of electromagnetic stirring on weld pools
[AD-A136718] 10 p1460 N84-19532
DENARD, J. C.
Monitoring of the Stanford Linac microbunches' position
[DE83-012712] 03 p0433 N84-12840
DENARO, R. P.
Simulation and analysis of differential global positioning system for civil helicopter operations
[NASA-CR-166534] 10 p1425 N84-19317
DENBAUM, C. A. P.
A demand-driven, coroutine-based implementation of a nonprocedural language 08 p1211 N84-17895
DENBOER, M. L.
Photoemission studies of mixed valent systems
[DE84-010797] 20 p3310 N84-31020
DENDY, J. E.
Multigrid semi-implicit hydrodynamics revisited
[DE83-012675] 01 p0081 N84-10526
DENEMARK, D. L.
Develop a normative or descriptive model of the international/domestic civil aviation industry, volume 3
[AD-A131878] 03 p0314 N84-12051
Develop a normative or descriptive model of the international/domestic civil aviation industry, volume 2
[AD-A131877] 03 p0314 N84-12052
Develop a normative or descriptive model of the international/domestic civil aviation industry. Volume 1: Executive summary
[AD-A131876] 03 p0314 N84-12053
DENERY, D. G.
Flight evaluation results from the general-aviation advanced avionics system program
[NASA-TM-84397] 01 p0007 N84-10042
An overview of the demonstration advanced avionics system guest pilot evaluation conducted at Ames Research Center 03 p0314 N84-12049
Design, development and flight test of a demonstration advanced avionics system 06 p0773 N84-15067
DENES, J.
Institute achievements in man-machine relations
18 p2827 N84-27950
DENEZZA, R. E.
The Program Planning Review (PPR): Milestone or millstone?
[AD-P003493] 21 p3514 N84-32259
DENG, D.
The preparation of low-loss optical fiber with microwave plasma activated chemical vapor deposition process
[AD-A134260] 07 p1076 N84-16994
DENG, H.
On the undetected error probability of a concatenated coding scheme for error control
[NASA-CR-173613] 16 p2541 N84-26313
Fast decoding techniques for extended single-and-double-error-correcting Reed Solomon codes
[NASA-CR-173617] 16 p2543 N84-26325
Fast decoding of a d(min) = 6 RS code
[NASA-CR-173620] 16 p2544 N84-26326
An extended d(min) = 4 RS code
[NASA-CR-173619] 16 p2544 N84-26327
DENHAAK, W. A.
Spacelab scientific airlock 09 p1295 N84-18460
DENHAM, M. J.
Design environments and the user interface for CAD of control systems 01 p0015 N84-10095
DENHOLLANDER, J. G.
Linearization based on least squares approximation with application to finite dimensional system equations
[VTH-LR-364] 10 p1572 N84-20302
DENIG, W. F.
Wave and particle observations associated with the beam plasma discharge in a space simulation chamber
04 p0489 N84-13210
DENING, J. C.
High temperature electronics technology
[AD-A143571] 22 p3586 N84-32714
DENISON, H. C.
Transportable GPU (General Processor Units) chip set technology for standard computer architectures
[AD-P003553] 21 p3334 N84-31157
DENISON, R. L.
Air force technical objective document FY 85
[AD-A141925] 20 p3312 N84-31033
DENISYUK, Y. N.
Apparatus based on holographic focusing diffraction grating for measurement of diffraction efficiency of three-dimensional image holograms
21 p3482 N84-32068
DENK, S. V.
Water entry impact shock on flat faced cylindrical missiles
[AD-A131937] 03 p0371 N84-12419
DENN, M. M.
Continuum theory for fiber suspensions
[DE84-012258] 21 p3402 N84-31584
DENNER, H. D.
Optimized He 2 cooling systems for space application. Behavior and handling of superfluid helium at G = 0, phase 1
[BMFT-FB-W-83-008] 02 p0207 N84-11349
Optimized He 2 cooling systems for space application. Behavior and handling of superfluid helium at g = 0, phase 2
[BMFT-FB-W-84-006] 19 p3025 N84-29185
DENNETT, J. T.
Large, horizontal-axis wind turbines
[NASA-TM-83546] 17 p2722 N84-27327
DENNEY, R. O.
Integrated testing and maintenance technologies
[AD-A138587] 13 p1925 N84-22528
DENNING, D.
Research topics in statistical database management
[DE84-002581] 06 p0935 N84-16080
DENNIS, B.
Characteristics of gamma-ray line flares
[NASA-CR-174608] 04 p0621 N84-14098
DENNIS, B. K.
Strengthening small business participation in Department of Defense extramural research and development
[AD-P002832] 13 p2063 N84-23377
DENNIS, B. R.
Microwave and X-ray observations of delayed brightenings at sites remote from the primary flare locations
[NASA-TM-86140] 22 p3680 N84-33326
A new class of solar burst with MM-wave emission but only at the highest frequency (90 GHz)
[NASA-TM-87369] 24 p3992 N84-35264
DENNIS, D. R.
Recent advances in parachute technology
[RAE-TM-FS(F)-514] 03 p0319 N84-12089
DENNIS, D. V.
Aircraft control position indicator
[NASA-CASE-LAR-12984-1] 11 p1607 N84-20522
DENNIS, J. B.
Data flow computer architecture
[DE84-004196] 11 p1704 N84-21111
DENNIS, R. C.
Hematologic and biochemical data on healthy individuals participating in a physical conditioning program
[AD-A140464] 16 p2536 N84-26278
DENNIS, R. L.
Evaluation of performance measures for an urban photochemical model
[PB84-115062] 09 p1343 N84-18771
DENNISON, E. W.
JPL tests of a LaJet concentrator facet
[NASA-CR-173470] 12 p1841 N84-22004
Parabolic Dish Concentrator (PDC-1)
18 p2871 N84-28226
Special pyrheliometer shroud development
18 p2875 N84-28255
DENNY, H. W.
Supplemental grounding of extending EMP collectors
[AD-A131255] 01 p0067 N84-10440
DENSKAT, K. U.
Observations of hydromagnetic turbulence in the solar wind 03 p0467 N84-13074
DENSON, A. L.
Effects of stressors on task performance and satisfaction
[AD-A139039] 14 p2187 N84-24101
A player's manual for a complex disaster decision simulation
[AD-A140776] 17 p2747 N84-27438
DENSON, W. K.
Impact of electrostatics on IC (Integrated Circuit) fabrication
[AD-A137372] 10 p1486 N84-19713
DENT, D. F.
Accuracy considerations when using some minicomputers for scientific and engineering problems
[AD-A134141] 07 p1061 N84-16878
DENTI, P.
The elements of the rotation matrices in terms of Rodriguez's parameters
[AD-A136550] 09 p1376 N84-18988
DENTON, J. D.
A method of calculating fully three dimensional inviscid flow through any type of turbomachine blade row
06 p0840 N84-15479
A review of current research activity on the aerodynamics of axial flow turbines 06 p0841 N84-15480
Three-dimensional flow calculations on a hypothetical steam turbine last stage 06 p0841 N84-15481
DENTREMONT, R. P.
Evaluation of automated imagery analysis algorithms for use in the three-dimensional nephanalysis model at AFGWC (Air Force Global Weather Central)
[AD-A131986] 03 p0410 N84-12686
DENTRY, C. S.
Modelling for fatigue crack growth prediction in Mirage IIIO frame 26
[ARL-STRUC-REPT-401] 24 p3912 N84-34772
DENTY, M. A.
Success with Data Management 4 at the DOE Pinellas Plant
[DE84-008021] 19 p3116 N84-29802
DENUS, S.
Review of plasma flow research at the Institute of Plasma Physics and Laser Microfusion (IPPLM)
10 p1581 N84-20358
DENYACHENKO, O. A.
Explosive welding in the manufacture of titanium shells 24 p3876 N84-34562
DENZINGER, W.
POPSAT: A candidate satellite system for solid Earth applications and sciences. Preliminary feasibility study. Volume 1: Summary
[ESA-CR(P)-1882-VOL-1] 17 p2614 N84-26735
POPSAT: A candidate satellite system for solid Earth applications and sciences. Preliminary feasibility study. Volume 2: Development program
[ESA-CR(P)-1882-VOL-2] 17 p2614 N84-26736
DEO, H. S.
A ring source method for predicting the aerodynamic characteristics of bodies of revolution
[COA-8409] 19 p2957 N84-28744
DEOLIVEIRA, J. L.
Geography information systems project
[INPE-2782-PRE/348] 08 p1239 N84-18100
DEOLIVEIRA, M. D. L. N.
Application of LANDSAT data to the study of urban development in Brasilia
[E84-10142] 16 p2507 N84-26090
The use of an image registration technique in the urban growth monitoring
[E84-10147] 16 p2508 N84-26095
The use of photointerpretation for socio-economic characterization of urban population
[INPE-3067-PRE/484] 16 p2561 N84-26428
DEOLIVEIRASILVA, O.
A data compressor system
[INPE-2847-PRE/389] 02 p0270 N84-11766
DEOLIVO, A. A.
A heuristic method for the problem of the distribution of perishable cargos
[INPE-3133-PRE/524] 23 p3832 N84-34309
DEOLVEIRA, J. R.
Satellite telemetry
[INPE-2854-PRE/394] 23 p3699 N84-33444
DEOTTO, L.
Fast flutter clearance by parameter variation
02 p0172 N84-11135
DEPAIVA, R. N.
An adaptive satellite orbit estimation scheme using an analytical approach and a dynamical model compensation technique 19 p3119 N84-29821
DEPAULA, A. R., JR.
BRESEX: On board supervision, basic architecture and preliminary aspects for payload and space shuttle interface
[NASA-CR-173673] 21 p3353 N84-31271

A fault-tolerant multiprocessing unit for on-board satellite supervision and control
[INPE-3244-PRE/590] 24 p3866 N84-34500
DEPAULA, E. R.
Study on the applicability of the international ionospheric model IRI 79 for obtaining electron density profiles
[INPE-2817-PRE/372] 02 p0247 N84-11619
Behavior of the total electron content in the ionosphere in Sao Jose dos Campos during magnetic storms in 1980
[INPE-2810-PRE/366] 02 p0248 N84-11623
Plasma bubble irregularity occurrence and zonal velocities under quiet and disturbed conditions, from polarimeter observations
[INPE-3023-PRE/461] 12 p1846 N84-22036
Nighttime enhancements in the TEC and magnetic storm response of the tropical F-region over Brazil
[INPE-3038-PRE/469] 21 p3442 N84-31839
Comparison between density profiles obtained at Cachoeira Paulista, Brazil, and deduced from IRI-79 model
[INPE-3136-PRE/527] 21 p3443 N84-31843
DEPAULAPEREIRA, S.
The INPE handouts to the 6th LANDSAT Technical Working Group (LTWG) Meeting
[E84-10176] 21 p3427 N84-31738
DEPINHO, O. G.
Utilization of digital LANDSAT imagery for the study of granitoid bodies in Rondonia: Case example of the Pedra Branca massif
[E84-10120] 14 p2167 N84-23979
DEPONTE, S.
Boundary layer segmentation on sharp highly swept leading edges and its effects on secondary vortices
03 p0326 N84-12132
DEPUY, W. E., JR.
US military aircraft cost handbook
[AD-A136035] 09 p1249 N84-18158
DEQUEIROZ, F. T.
Elements of functions of a complex variable
06 p0906 N84-15881
DEQUEKER, J.
Analysis of collagen and noncollagenous proteins in bone particles fractionated by gradient density fractionation 23 p3808 N84-34144
DERAAD, L.
Developing new materials at elevated temperatures and pressures
[AD-A141235] 18 p2940 N84-28650
DERBLOM, H.
Observations of stimulated electromagnetic emissions during ionospheric heating experiments
05 p0635 N84-14179
First observations of 140 MHz plasma line backscatter during healthy experiments at Tromsoe
[UIO-SR-84-02] 20 p3243 N84-30588
DERBRIDGE, C.
Residual shale-oil/diesel-engine operating compatibility program
[DE84-000133] 04 p0545 N84-13587
DERBYSHIRE, T.
PAN AIR summary document (version 1.0)
[NASA-CR-3250] 19 p2957 N84-28741
DERE, K. P.
HRTS observations of the fine structure and dynamics of the solar chromosphere and transition zone
03 p0466 N84-13070
DEREFELDT, G.
Color order systems for computer graphics. Part 1: Transformation of Natural Color System (NCS) data into CIELAB color space
[FOA-C-53013-H2] 18 p2922 N84-28528
DEREGGI, A. S.
Pre-existing polarization and influence of electrode materials on PVF2 electrets as determined by thermal pulse and pyroelectric methods
[AD-A132896] 05 p0659 N84-14335
DERENDYAYEV, N. V.
Stability of stationary rotation of cylinder filled with stratified viscous incompressible fluid
21 p3479 N84-32054
DERENNAESOUZA, C.
Science analysis by knowledge stored in associative networks
[INPE-2784-PRE/350] 09 p1366 N84-18920
The development of LANAC/II language for concurrent programming
[INPE-2781-PRE/347] 23 p3813 N84-34180
DEREVYANNYKH, I. M.
Peculiarities in construction of optical receivers for digital fiber-optic communication lines
22 p3568 N84-32596
DERIGHETTI, B.
The NMR laser: A nonlinear solid state system showing chaos 14 p2239 N84-24440
DERIN, H.
Bayes smoothing algorithms for segmentation of images modelled by Markov random fields
[AD-A133966] 05 p0734 N84-14817
Application of the Gibbs distribution to image segmentation
[AD-A133406] 06 p0901 N84-15850
DERIS, J.
Fire modeling research at Factory Mutual
04 p0513 N84-13370
DERISION, R.
Sterile devices: A GMP (Good Manufacturing Practices) workshop manual
[PB83-226563] 01 p0061 N84-10400
DERMAN, C.
On the use of replacements to extend system life
[AD-A132878] 05 p0690 N84-14532
Inspections with unknown detection probabilities
[AD-A136890] 10 p1573 N84-20310
DERMER, C. D.
Physics of nonmagnetic relativistic thermal plasmas
[NASA-TM-86154] 24 p3965 N84-35107
DEROCHER, W. L., JR.
Spacecraft servicing demonstration plan
[NASA-CR-171132] 21 p3351 N84-31258
DEROOVER, B.
Inventory of Flemish forests using medium-scale Color Infrared (CIR) photography and CIR orthophotoplans as base for a forest management data bank
03 p0400 N84-12614
DEROS, V.
Interactive Automatic System (Iasp): An expert system to help photointerpretation 23 p3779 N84-33961
DERRICK, W. L.
A multiple processing resource explanation of the subjective dimensions of operator workload
[AD-A141455] 19 p3070 N84-29480
DERRIDJ, M.
A result on extension of C.R. functions
14 p2210 N84-24270
DERRY, S. M.
Shuttle orbiter boundary layer transition at flight and wind tunnel conditions 01 p0023 N84-10149
DERRY, T. E.
Surface and near-surface analysis of diamond by RBS
06 p0814 N84-15302
DERSTINE, M. W.
Chaos in optical bistability 14 p2232 N84-24388
DERTOUZOS, M. L.
A multiprocessor emulation facility
[AD-A136094] 09 p1365 N84-18915
Summary of research performed at MIT Laboratory for Computer Science
[AD-A143459] 22 p3638 N84-33064
DERUCHER, K.
Applications of the scanning electron microscope to concrete failure (Axial, biaxial, and dynamic)
[AD-A141788] 19 p3036 N84-29256
DERUGGIERO, A.
Aircraft multiplexing system architecture and stores compatibility
[AD-P003530] 21 p3331 N84-31134
DERUJULA, A.
Search for excited quarks
[PREPRINT-383] 23 p3823 N84-34246
DERUYCK, J.
End-wall boundary layer calculations in multistage axial compressors 07 p0957 N84-16205
DERUYTER, H.
Transient high-field behavior of niobium superconducting cavities
[DE83-011852] 01 p0066 N84-10443
Microwave measurements of azimuthal asymmetries in accelerating fields of disk-loaded waveguides
[DE83-012705] 02 p0210 N84-11373
Klystron voltage pulse timing experiment
[DE84-011753] 20 p3177 N84-30176
DERUYTERRE, A.
Melting and solidification of metallic composites
17 p2613 N84-26726
DERVISEVIC, E.
Investigation of a microwave discharge in argon/helium mixtures
[LP-202] 07 p0995 N84-16451
Microwave discharges in capillary tubes
[LP-203] 16 p2558 N84-26410
Role of excitation frequency in discharges created by surface waves
[LP-205] 16 p2558 N84-26411
DERVISOGLU, B. L.
VLSI (Very Large Scale Integrated) self-testing using exhaustive bit patterns
[AD-A144299] 24 p3898 N84-34681
DERYABIN, S. L.
Discharge of ideal gas into vacuum
13 p1970 N84-22785
DERYABIN, V. A.
Features of behaviour of gas bubbles in molten oxide films during enamelling
[BLL-M-35672-(5828.4)] 22 p3553 N84-32496
DERYDER, D. D.
Interactive geometry modeling of space station conceptual designs 12 p1871 N84-22191
Geometric modeling of large space antenna deployment 12 p1876 N84-22225
Interactive systems design and synthesis of future spacecraft concepts
[NASA-TM-86254] 19 p2981 N84-28893
DESACHY, M. J.
Investigation of LANDSAT D Thematic Mapper geometric performance: Line to line and band to band registration
[E84-10187] 21 p3429 N84-31758
DESAI, M.
Feedback in robotics for assembly and manufacturing
[PB84-177112] 17 p2675 N84-27044
DESAI, P. D.
Specific heat of British, Czechoslovakian, French, German, Japanese, Polish, Romanian and Swedish stainless steels, state-of-the-art report
[AD-A132991] 05 p0655 N84-14306
DESAI, U. D.
Frequency of fast, narrow gamma-ray bursts and burst classification 09 p1407 N84-19190
Two probable optical flashes from gamma-ray bursters
[NASA-TM-86126] 21 p3526 N84-32337
Three precise gamma-ray burst source locations
[NASA-TM-86132] 22 p3680 N84-33332
DESANTIS, R.
Ultrasonic techniques for the inspection of nuclear components
[BLL-RISLEY-TR-4905-(9091.9F)]
18 p2850 N84-28098
DESARIO, N.
Speaker recognition: Example of execution of a phonic test
[FUB-55-1982] 10 p1483 N84-19690
DESAULTY, M.
Predicting combustor efficiency and stability performances 15 p2294 N84-24765
DESAUSSURE, G.
Automated planning for intelligent machines in energy-related applications
[DE84-011666] 20 p3279 N84-30815
Basis research on intelligent robotic systems operating in hostile environments: New developments at ORNL
[DE84-011464] 21 p3414 N84-31647
DESBOIS, M.
Sampling problems and cloud statistics
10 p1534 N84-20048
DESCH, M. D.
Saturn's ionosphere: Inferred electron densities
[NASA-TM-85121] 07 p1092 N84-17102
Voyager observations of Jovian millisecond radio bursts
[NASA-TM-86052] 07 p1093 N84-17109
A radiometric Bode's Law: Predictions for Uranus
[NASA-TM-86074] 17 p2781 N84-27659
DESCHAMBAULT, R. L.
Nonstationary oblique-shock-wave reflections in air
[UTIAS-270] 21 p3399 N84-31562
DESCHAMPS, P. Y.
Calibration of TM data from ground-based measurements 20 p3209 N84-30385
Ocean Color Working Group report to ESA Observation Advisory Committee
[ESA-BR-20] 23 p3785 N84-34003
DESCHANCIAUX, C.
The ISPM unified radio and plasma wave experiment
09 p1262 N84-18237
DESCLAUX, J. P.
Theory of hyperfine anomalies in muonic atoms
[DE83-015392] 03 p0438 N84-12872
DESER, C.
Long term upper ocean study (LOTUS) at 34 deg N, 70 deg W: Meteorological sensors, data and heat fluxes for May-October 1982 (LOTUS-3 and LOTUS-4)
[AD-A133883] 05 p0711 N84-14659
DESERNO, U.
Optically nonlinear materials for tunable UV-lasers
[BMFT-FB-T-84-133] 23 p3755 N84-33806
DESHAIES, B.
Analytical solutions for the flow field induced by a spherical flame expanding at constant velocity
06 p0836 N84-15445
DESHAYES, J.
Asymptotic laws of the tests and rupture estimators in a classical statistical model
[ENST-84C001] 19 p3094 N84-29653
DESHAZER, L. G.
Investigation of optical fibers for nonlinear optics
[AD-A130656] 01 p0147 N84-10965

Investigation of optical fibers for nonlinear optics
[AD-A143565] 22 p3657 N84-33185

DESHPANDE, G.
Hybrid vehicle assessment. Phase 1: Petroleum savings analysis
[NASA-CR-173741] 18 p2947 N84-28682

DESHPANDE, M. D.
Analysis of a high-frequency Stirling Cycle compressor for cryogenic cooling in space
[NASA-TM-85066] 06 p0852 N84-15555
Analysis of rectangular microstrip antennas
[NASA-TP-2276] 11 p1642 N84-20735

DESHPANDE, N.
Theory of elementary particles
[DE83-015904] 03 p0437 N84-12871

DESJARDINS, S. P.
Development of 2 underseat energy absorbers for application to crashworthy passenger seats for general aviation aircraft
[NASA-CR-158927] 22 p3533 N84-32367

DESLAURIERS, E.
Optimization of satellite orbital parameters for oceanic surveillance
[AD-P002158] 14 p2139 N84-23824

DESMARAIS, L. A.
Integrated aircraft fuel tank inerting and compartment fire suppression system. Volume 2: Evaluation of nitrogen-enriched air as a fire suppressant
[AD-A134883] 08 p1101 N84-17157

DESMARAIS, R. N.
Generalization of the subsonic kernel function in the s-plane, with applications to flutter analysis
[NASA-TP-2292] 11 p1600 N84-20480

DESMARTEAU, D. D.
Synthetic and mechanistic studies in fluorine chemistry. New developments in organonitrogen fluorine chemistry
[AD-A132644] 05 p0650 N84-14274

DESMERGER, M.
Homing head imperfections altering missile guidance
21 p3351 N84-31256

DESORCIE, J. L.
Organophosphazenes: 17: The synthesis of trimethylsilylacetylene and terminal acetylene derivatives of hexfluorocyclotriphosphazene
[AD-A141429] 19 p2983 N84-28906

DESOUSA, R. C. M.
An integrated software system for geometric correction of LANDSAT MSS imagery
[E84-10143] 16 p2507 N84-26091

DESOUZA, A. C. R.
Study on the applicability of the international ionospheric model IRI 79 for obtaining electron density profiles
[INPE-2817-PRE/372] 02 p0247 N84-11619
Comparison between density profiles obtained at Cachoeira Paulista, Brazil, and deduced from IRI-79 model
[INPE-3136-PRE/527] 21 p3443 N84-31843

DESOUZA, J. A. M. F.
State estimation and parameter identification: An approach involving a pair consisting of the initial state and the trajectory
[INPE-3183-PRE/548] 21 p3471 N84-31995
On parameter identification and state estimation for distributed parameter systems
[INPE-3236-PRE/585] 24 p3949 N84-35004

DESOUZAMENDES, P. R.
Effect of periodic, tapered enlargements and contractions on turbulent heat transfer and fluid flow in a circular duct 02 p0217 N84-11422

DESPAIN, K. H.
Some observable indicators of s-process environments
[DE84-001720] 05 p0763 N84-15006
Role of the radiation pressure gradient in giant and supergiant star evolution
[DE84-001715] 05 p0763 N84-15007

DESPAIN, R.
Characterization of carbon fiber composites using acousto-ultrasonic techniques
[AD-A132305] 04 p0506 N84-13317

DESPER, O. E.
Advanced composite elevator for Boeing 727 aircraft. Volume 1: Technical summary
[NASA-CR-3290] 18 p2792 N84-27722

DESPLAS, P.
Vortical flow exploration methods developed for the F1 wind tunnel 14 p2099 N84-23598

DESTAINTOT, T.
Engineering and technical services to improve reliability and maintainability of instrument landing system components
[DOT/FAA/PM-84/7] 11 p1604 N84-20503

DESTEIGUER, D.
An analysis of potential protective breathing devices intended for use by aircraft passengers
[AD-A132648] 05 p0716 N84-14692
The objective evaluation of aircrew protective breathing equipment. 5: Mask/goggles combinations for female crewmembers
[AD-A134912] 08 p1201 N84-17830

DESTUYNDER, R.
New methods of excitation, acquisition and data reduction about unsteady wind tunnel tests
14 p2099 N84-23599

DETANG, Z.
The effects of non-metallic inclusions in steel on fatigue properties 20 p3160 N84-30070

DETCH, J. L.
Propagation of a radio-frequency pulsed signal over the Earth. The JOLLY programs
[DE84-000109] 04 p0523 N84-13439
Nanosecond image-shuttering studies at Los Alamos National Laboratory
[DE84-001733] 06 p0830 N84-15405
Computer optimization of a linac injector trajectory
[DE84-005034] 15 p2408 N84-25456

DETEMPLE, T. A.
Harmonic generation in paramagnetic spin systems
[AD-A130895] 01 p0153 N84-11004

DETERMAN, W. R.
Space-reactor system and subsystem investigations: Cost and schedule estimates for reactor and shield subsystems technology development. SP-100 program
[DE84-000112] 04 p0603 N84-13984

DETHIER, J. L.
Soliton bag: Dynamics and the quark plasma
[DE84-001103] 05 p0745 N84-14895

DETHMAN, H. A.
Integrated Application of Active Controls (IAAC) technology to an advanced subsonic transport project: Current and advanced act control system definition study, volume 1
[NASA-CR-165631-VOL-1] 19 p2967 N84-28802
Integrated Application of Active Controls (IAAC) technology to an advanced subsonic transport project: Current and advanced act control system definition study. Volume 2: Appendices
[NASA-CR-165631-VOL-2] 19 p2967 N84-28803

DETINICH, V. A.
Fiber optic light guides based on polymer coated multicomponent glasses 21 p3487 N84-32100

DETMAN, T.
Radar cross section measurements of wingtip vortices
23 p3775 N84-33934

DETREVILLE, R. T. P.
Rationale for a Threshold Limit Value (TLV)R for JP-4/Jet B wide cut aviation turbine fuel
[AD-A134814] 08 p1201 N84-17627

DETSCH, R. M.
Amplification of sound by gas phase reactions
[AD-A133747] 05 p0649 N84-14266

DETTBARN, W. D.
Physiological changes in fast and slow muscle with simulated weightlessness 09 p1354 N84-18850

DEUEL, W.
Two density components in symbiotic stars
24 p3979 N84-35208

DEUTSCH, D.
An integral equation for the solution of nonlinear wave equations 22 p3529 N84-32347

DEUTSCH, L. J.
The effects of Reed-Solomon code shortening on the performance of coded telemetry systems
04 p0518 N84-13403
VLSI architectures for computing multiplications and inverses in GF(2-m) 04 p0518 N84-13406
A systolic VLSI design of a pipeline Reed-Solomon decoder 10 p1474 N84-19631
Effects of NRZ-M modulation on convolutional codes performance 16 p2479 N84-25894
Goldstone R/D high speed data acquisition system
16 p2480 N84-25899

DEUTSCH, S.
The boundary layer on compressor cascade blades
[NASA-CR-173514] 15 p2332 N84-25001
The effects of porous material on microbubble skin friction reduction
[AD-A143401] 22 p3593 N84-32756

DEVAN, J. H.
Mass transfer behavior of a modified austenitic stainless steel in lithium
[DE84-000338] 04 p0502 N84-13293
Liquid metal corrosion considerations in alloy development
[DE84-008512] 18 p2815 N84-27868
Perspective of the corrosive behavior of lithium and sodium
[DE84-011635] 21 p3367 N84-31362

DEVANCE, D. C.
Development and fabrication of a high current, fast recovery power diode
[NASA-CR-168196] 04 p0524 N84-13443

DEVANE, J. F.
Investigation of magnetic field measurements
[AD-A130422] 01 p0138 N84-10904

DEVANEY, J. J.
Compton scattering of photons from electrons in thermal (Maxwellian) motion: Electron heating
[DE84-013860] 23 p3823 N84-34241

DEVANEY, M. J.
Network file-storage system
[DE84-001068] 04 p0585 N84-13863

DEVARY, J. L.
Geostatistics software user's manual for the Geosciences Research and Engineering Department PDP 11/70 computer
[DE84-004149] 09 p1369 N84-18940

DEVAUGHAN, A. M.
IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study bibliography
[AD-A137327] 10 p1503 N84-19825

DEVAY, L.
Migration of natural gas and resevoir formation in east lower Saxony
[BMFT-FB-T-83-153] 02 p0250 N84-11639

DEVECCHIS, M.
Termination of cylindrical grooved optical cables
11 p1720 N84-21220
Cylindrical v-grooved non-metallic optical fibre cable
11 p1723 N84-21242

DEVELIS, J.
Use of holographic linear Fringe Linearization Interferometry (FLI) for detection of defects
[AD-A129323] 01 p0083 N84-10543
Holographic FLI (Fringe Linearization Interferometry) for detection of defects
[AD-A135663] 09 p1318 N84-18612

DEVENTER, C. N.
Description of optical measurement techniques for the interaction of shock waves with objects
[PML-1983-10] 12 p1904 N84-22401

DEVENUTO, J.
Clutter cancellation techniques for use in a space-based radar system
[AD-A138467] 12 p1808 N84-21784

DEVERDIERE, Y. C.
Annals of the Fourier Institute, volume 34, no. 1
[ISSN-0373-0956] 22 p3633 N84-33025
Annals of the Fourier Institute, volume 34, no. 2
[ISSN-0373-0956] 22 p3635 N84-33038

DEVERE, G. T.
History of on-orbit satellite fragmentations
[NASA-CR-171814] 24 p3859 N84-34461

DEVEREUX, O. F.
Electrode polarization studies in hot corrosion systems
[DE84-005485] 11 p1634 N84-20686

DEVEREUX, R. S. G.
The effect of some water-displacing corrosion preventatives on corrosion of aluminum alloys 7075-T651 and 2024-T6
[ARL-MAT-REPT-115] 07 p0973 N84-16307

DEVEREUX, V. G.
Filtering of the colour-difference signals in 4:2:2 YUV digital video coding systems
[BBC-RD-1984/4] 20 p3172 N84-30141

DEVI, V. M.
Atlas of high resolution infrared spectra of carbon dioxide
[NASA-TM-85764] 10 p1576 N84-20325

DEVILBISS, M. C.
Windows on a future world: Human dimensions of Air Force doctrine in the 21st century
[AD-P003307] 18 p2909 N84-28449

DEVILLARD, J.
Powder metallurgy for the economical manufacture of aeronautical components in titanium alloy
[AD-B076255] 23 p3717 N84-33562

DEVILLE, M.
Recent developments of spectral and pseudospectral methods in fluid dynamics 16 p2492 N84-25985

DEVILLERS, L.
Metallurgical aspects and mechanical properties of weld metal in automatic submerged arc welding
[BLL-RISLEY-TR-4875-(9091.9F)]
09 p1324 N84-18650

DEVIMEUX, J. P.
Automation of a stamping press using sequential hydraulic manipulators
[CETIM-1-4N-090] 21 p3376 N84-31422
Automation of a drop forge at the Centre Techniques des Industries Mecaniques (CETIM) forge section
[CETIM-1.3K.27.3] 21 p3376 N84-31423

DEVINE, J. A.
A rodent water dispensing system for use in hypobaric chambers
[AD-A141167] 18 p2894 N84-28362

DEVINE, M. P.
Neutron radiographic study of liquid propellant combustion 13 p1949 N84-22669
DEVINE, T. E.
Object code optimization in a standard compiler
[AD-P003520] 21 p3329 N84-31124
DEVITO, S.
Study on critical assessment of IR CCD arrays for spaceborne reflected and thermal IR imagers
[ESA-CR(P)-1881] 17 p2616 N84-26744
DEVIVO, R. J.
Calibration of meteorological measurements made by NOAA (National Oceanic and Atmospheric Administration) WP3D aircraft, 1983
[PB84-127463] 10 p1541 N84-20099
DEVOOGT, W. J. P.
West breakwater-Sines (Portugal): Wave climatology 08 p1194 N84-17787
DEVOR, R. E.
Strategies for and validity of noise monitoring in the vicinity of civilian airfields and army installations
[AD-A137780] 11 p1729 N84-21279
DEVORE, R.
A geometric proof of total positivity for spline interpolation
[AD-A141606] 19 p3085 N84-29583
DEVORE, R. V.
Selected aspects of radio interference from HVDC (High Voltage Direct Current) converter stations
[PB83-219675] 01 p0075 N84-10494
DEVRIES, D. J.
Geodetic accuracy of LANDSAT-4 Multispectral Scanner and Thematic Mapper data 20 p3211 N84-30399
DEVRIES, G. J.
Fault detection and protection system for neutral beam generators on the Neutral Beam Engineering Test Facility (NBETF)
[DE84-006634] 12 p1903 N84-22394
DEVRIES, H. B.
A comparitive study of ADI splitting methods for parabolic equations in two space dimensions
[MC-NW-156/83] 14 p2215 N84-24304
DEVRIES, J.
The equicontinuous structure relation and extension of functions defined on G-spaces
[MC-ZW-192/83] 13 p2034 N84-23194
G-spaces: Compactifications and pseudocompactness
[MC-ZW-200/83] 19 p3095 N84-29658
DEVRIES, L.
Investigation of the electrochemical formation of Li-C intercalation compounds
[AD-A130879] 01 p0037 N84-10233
DEVRIES, L. E.
Battery Material Symposium
[AD-A143815] 23 p3742 N84-33717
DEVRIEZE, R.
Longitudinal waterblocking performance of conductive and non-conductive waterswellable nonwovens 11 p1721 N84-21225
DEWAAL, B.
Ergonomic aspects of road vehicles. Part 1: A literature survey of some aspects
[IZF-1983-15] 18 p2915 N84-28487
DEWAAL, D. J.
A predictive view of the detection of influential observations in Gmanova
[CSIR-TR-83] 04 p0591 N84-13904
Asymptotic null and nonnull distributions of three multivariate test statistics in Gmanova
[TR-82] 04 p0592 N84-13905
A stopping rule for a multi-person cooperative game
[TR-87] 08 p1222 N84-17981
Multi-Bayesian estimation theory
[CSIR-TWISK-296] 11 p1712 N84-21160
DEWALD, A. B.
Effect of oxygen monolayer coverages on titanium sputtering yields as determined by simultaneous laser fluorescence and Auger measurements
[DE83-014716] 01 p0046 N84-10296
Modification of alloy surface composition by segregation processes as a means of impurity control in fusion devices
[DE84-003645] 08 p1134 N84-17373
DEWAR, M. M.
Comparison of seam types
[AD-A137383] 10 p1466 N84-19574
DEWAR, R. I.
Canonical derivation of the Vlasov-Coulomb noncanonical poisson structure
[DE84-002909] 07 p1064 N84-16900
DEWAR, R. L.
Variational method for the three-dimensional inverse-equilibrium problem in toroids: Part 2
[DE83-012925] 01 p0149 N84-10981
DEWEILLE, J. R.
Simulation of the ignition of a mixture of hydrogen and oxygen
[PML-1983-34] 12 p1790 N84-21676
DEWEY, K. F.
Satellite observations of variations in southern hemisphere snow cover
[PB83-252908] 04 p0568 N84-13745
DEWEY, L. A.
Optimal delay estimation in a multiple sensor array having spatially correlated noise
[AD-A133810] 05 p0734 N84-14820
DEWILDE, M.
Cohomology of the 3-differentiable of the Poisson algebra of a symplectic manifold 13 p2032 N84-23175
DEWILDE, M. A.
Laser spectroscopy of propellant-like flames
[AD-A132042] 03 p0349 N84-12267
Intracavity laser excitation of NCO fluorescence in an atmospheric pressure flame
[AD-A134740] 08 p1164 N84-17579
Convective heating of energetic materials 13 p1949 N84-22672
DEWISPELAERE, W. M.
Inventory of Flemish forests using medium-scale Color Infrared (CIR) photography and CIR orthophotoplans as base for a forest management data bank 03 p0400 N84-12614
DEWISPELARE, A. R.
The Extended Multi-Attribute Decision Analysis Model (EMADAM)
[AD-A139510] 14 p2206 N84-24237
Vector optimization techniques
[AD-A139497] 14 p2219 N84-24317
Electric vehicle modeling and simulation
[AD-A139719] 15 p2420 N84-25535
DEWIT, C.
Constrained function minimization. Comparison of the augmented Lagrangian and sequentially increasing penalty method
[PB83-217265] 06 p0903 N84-15863
DEWITT, A.
Brighter H(-) source for the intense pulsed neutron source accelerator system
[DE84-003608] 07 p1072 N84-16965
DEWITT, K. J.
Grid flexibility and patching techniques 11 p1610 N84-20540
DEWITT, R. J.
Acquisition systems for heat transfer measurement
[DE84-003779] 08 p1160 N84-17551
DEWOLF, W. B.
Engine/airframe interference drag at cruise conditions, using propulsion simulation
[NLR-TR-82012-U] 03 p0321 N84-12096
DEWOLFE, P. H.
Ice impact testing of space shuttle thermal protection system materials 10 p1509 N84-19880
DEXTER, H. B.
Worldwide flight and ground-based exposure of composite materials 20 p3145 N84-29971
DEXTER, J. J.
Uranium anomalies in Wyoming and parts of adjacent states. National Uranium Resource Evaluation
[DE83-005353] 06 p0866 N84-15638
DEXUAN, Y.
Preliminary investigation of fatigue crack propagation of 30CrMnSiA steel in salt spray corrosion conditions 20 p3160 N84-30068
DEY, C.
An explicit predictor-corrector solver with applications to Burgers' equation
[NASA-TM-84402] 14 p2211 N84-24276
DEY, S. K.
Numerical modeling of D-mappings with applications to chemical kinetics
[NASA-TM-84332] 12 p1893 N84-22326
An explicit predictor-corrector solver with applications to Burgers' equation
[NASA-TM-84402] 14 p2211 N84-24276
DEYOUNG, R. J.
A blackbody-pumped CO2-N2 transfer laser
[NASA-TP-2347] 21 p3408 N84-31617
DEYOUNG, T. F.
Voice Interactive Systems Technology (VIST) research
[AD-A142698] 20 p3267 N84-30726
DEYU, S.
Effect of the overload ratio on fatigue growth behavior in Ti-6Al-4V
[AD-A136027] 09 p1283 N84-18381
DEZEEUW, P. M.
A portable vector-code for autonomous multigrid modules
[MC-NW-154/83] 07 p1065 N84-16914
DEZELICK, R. A.
Baseline performance and emissions data for a single-cylinder, direct-injected diesel engine
[NASA-TM-86873] 23 p3836 N84-34330
DHAR, S.
A minimization method for engineering estimation
[AD-P002372] 14 p2195 N84-24163
DHAR, V.
Knowledge-based support systems for long range planning
[AD-A137311] 10 p1591 N84-20424
DHARMADHIKARI, S. W.
Recurrence of symmetric random walks
[AD-A133807] 05 p0739 N84-14855
The Gauss-Tchebyshev inequality for unimodal distributions
[AD-A133760] 05 p0739 N84-14857
DHAWAN, S.
Intense positron beams: Linacs; preworkshop copy
[DE83-012941] 01 p0146 N84-10958
DHENAIN, G.
Balloon test project: Cosmic Ray Antimatter Calorimeter (CRAC)
[NASA-TM-77481] 23 p3750 N84-33772
DHERBECOURT, A.
Assessment of data handling configuration for on-board operation system definition
[DM55/JPS/JP/321.82] 19 p2982 N84-28898
DHINGRA, B. S.
Liquid-phase photoionization detector for liquid chromatography 13 p1955 N84-22711
DIACCI, E.
On-line monitoring of the true corrosion rate in power plants
[CISE-2156] 16 p2465 N84-25796
DIACONIS, P.
Projection pursuit regression: Some mathematics
[AD-A134544] 07 p1063 N84-16894
Some alternatives to Bayes' rule
[AD-A135944] 09 p1383 N84-19033
DIACONU, C.
Current concerns in fields of hydrology, meteorology 24 p3960 N84-35078
DIAKITE, L.
The Integrated Software Engineering Facilities (ISEF) software configuration management system 05 p0722 N84-14732
DIAMOND, C.
An age comparison of the vestibulo-ocular counterroll reflex
[AD-A132064] 03 p0415 N84-12716
DIAMOND, F. I.
Antenna applications and system engineering
[AD-P003401] 19 p3014 N84-29105
DIAMOND, P. H.
Impact of clumps on plasma stability and the nature of turbulence in a saturated state
[DE83-012927] 01 p0149 N84-10980
Nonlinear interaction of toroidicity induced drift modes
[DE84-001562] 06 p0921 N84-15987
Nonlinear trapped electron response for drift wave turbulence in Tokamaks
[DE84-005385] 11 p1737 N84-21335
Theory of anomalous tearing mode growth and the major Tokamak disruption
[DE84-005383] 12 p1911 N84-22448
Nonlinear interaction of tearing modes: A comparison between the Tokamak and the reversed field pinch configurations
[DE84-010582] 18 p2934 N84-28606
DIAMOND, R. M.
High-spin gamma-ray spectroscopy
[DE84-010716] 20 p3296 N84-30929
DIANOVA, V. A.
Frequency conversion in photomultiplier during interaction of photoelectron beam and electric field in heterodyne 22 p3568 N84-32599
DIARRA, C. M.
The dynamics and control of large flexible space structures, part 7
[NASA-CR-173781] 19 p2981 N84-28892
DIAS, A.
Digital processing and absolute calibration of a stripmap synthetic aperture radar 23 p3778 N84-33954
DIAS, L. A. V.
Numerical problems for the implantation of an INPE atmospheric correction system for LANDSAT images
[INPE-2801-PRE/361] 05 p0721 N84-14727
Principal components technique analysis for vegetation and land use discrimination
[E84-10135] 16 p2506 N84-26083
Analytical solution of 1st and 2nd ordinary differential equations using the REDUCE 2 algebra manipulation program
[NASA-TM-77446] 16 p2548 N84-26351

Analytical soluation for computing first and second order ordinary differential equations using a method of series development
[INPE-2980-PRE/442] 22 p3645 N84-33110

DIAS, M. A.
Users' guide for the NCAR (National Center for Atmospheric Research) CCM (Community Climate Model) modular processor
[PB83-264002] 05 p0710 N84-14652

DIAS, O. P., JR.
Quantitative treatment of fuzzy relations in the process of allocating resources to R and D projects
[INPE-2761-PRE/336] 22 p3668 N84-33251

DIAS, P. L. S.
A preliminary study of the observed vertical mode structure of the summer circulation over tropical South America
[INPE-2914-PRE/426] 07 p1031 N84-16689

DIAS, S.
A critical study of the role of the surface oxide layer in titanium bonding
[NASA-CR-174531] 01 p0041 N84-10266

DIATCHENKO, N.
High-field Tokamaks with DD-DT operation and tritium-breeding requirements
[DE83-013092] 02 p0296 N84-11939

DIAZ-GUERRA, J. P. I.
Volatilization-excitation phenomena and efficiency of spectrochemical buffers in the analysis of geological samples. 1: The action of the mixture Li2CO3 graphite
[JEN-555] 17 p2729 N84-27369

DIAZBERMUDEZ, A. R.
Optimization of finite element grids using interpolation error 01 p0128 N84-10835

DIBARTOLO, J.
General aviation TCAS (Traffic Alert and Collision Avoidance System) avionics (GATCAS)
[AD-A139145] 14 p2104 N84-23618

DIBBLE, W.
Fabrication and properties of multilayer structures
[AD-A131934] 03 p0451 N84-12969

DIBELLA, F. A.
An RC-1 organic Rankine bottoming cycle for an adiabatic diesel engine
[NASA-CR-168256] 21 p3521 N84-32306

DIBENEDETTO, E. E.
A boundary modulus of continuity for a class of singular parabolic equations
[AD-A138019] 12 p1893 N84-22331

DIBLASIO, G.
Model of the behavior of the human visual system for the perception of contour elements
[FUB-44-1982] 05 p0714 N84-14677
The possibility of reduction of the subjective redundance of image signals with particular reference to contour coding
[FUB-43-1982] 05 p0748 N84-14911

DIBONA, G.
Analysis of experiments on X-ray emission from laser-irradiated targets
[DE84-751157] 24 p3909 N84-34761

DICARLO, J. A.
Method for strengthening boron fibers
[NASA-CASE-LEW-13626-2] 15 p2284 N84-24711

DICK, C. E.
Utility programs for generating the Hershey character fonts on microcomputers and laboratory plotters
[PB83-220467] 01 p0125 N84-10813

DICK, E.
Iterative techniques for the solution of elliptic finite difference equations 06 p0835 N84-15435
Iterative solution of the finite difference potential equations for subsonic and transonic flows 06 p0835 N84-15436

DICK, R. J.
ECM (Electronic Counter Measure) signal discrimination and identification techniques
[AD-A133427] 06 p0824 N84-15372
Development of a corrosion control, nonemissive paint for the protection of bilge spaces
[AD-A136270] 09 p1287 N84-18402
Improved paint removal technique
[AD-A136671] 10 p1467 N84-19580

DICKENS, J. D.
Synchronization technique of data recorded on a multichannel tape recorder
[AD-A139570] 14 p2148 N84-23868

DICKERSON, K. L.
Viscoelastic effect on dynamic crack propagation in Homalite 100
[AD-P003115] 16 p2468 N84-25820

DICKERSON, M.
Mesoscale and severe storms (Mass) data management and analysis system 24 p3929 N84-34871

DICKERSON, M. H.
Experimental and model transport and diffusion studies in complex terrain with emphasis on tracer studies
[DE84-013076] 22 p3626 N84-32975

DICKINSON, D. A.
Two-phase fluid flow through nozzles and abrupt enlargements
[DE84-006991] 12 p1816 N84-21841
An investigation of single-substance horizontal two-phase flow
[DE84-012292] 21 p3403 N84-31587

DICKINSON, D. F.
183 GHz water line variation: An energetic outburst in orion KL
[NASA-TM-85956] 16 p2574 N84-26522
A search for 183-GHz emission from water in late-type stars
[NASA-TM-85967] 23 p3838 N84-34348

DICKINSON, J. R., JR.
An analysis of the implementation plan for the conversion from the T-37 to the T-46 aircraft in undergraduate pilot training
[AD-A141199] 18 p2793 N84-27726

DICKINSON, J. S.
Studies of Electron-Beam-Induced decomposition of benzene
[AD-A137241] 10 p1454 N84-19496
Diagnostics development for E-beam excited air channels: Optical studies of the PHERMEX electron beam
[AD-A142095] 19 p3101 N84-29701

DICKINSON, J. T.
Fracto-emission from polymers
[AD-A132462] 04 p0506 N84-13314
Fracto-emission from graphite/epoxy composites
[NASA-CR-173845] 21 p3357 N84-31291
Fracto-emission from polymers
[AD-A144149] 24 p3888 N84-34622

DICKINSON, K.
A preliminary assessment of LANDSAT-4 Thematic Mapper data 20 p3208 N84-30377

DICKINSON, R. T.
A multiple ranking procedure adapted to discrete-event simulation
[AD-A133649] 05 p0740 N84-14860

DICKINSON, T. W.
AFB/open cycle gas turbine conceptual design study
[NASA-CR-168135] 21 p3434 N84-31784

DICKMAN, D. O.
Computer graphics support service
[DE84-010001] 19 p3079 N84-29540

DICKMAN, R. L.
Operation of communications satellite systems during crisis and conflict
[AD-P002150] 14 p2138 N84-23815

DICKMAN, T. J.
The avionics integrity program (AVIP)
[AD-P002817] 13 p2060 N84-23362

DICKSON, C. L.
Aviation fuels, 1983
[DE84-011823] 20 p3166 N84-30106

DICKSON, J. N.
POSTOP: Postbuckled open-stiffener optimum panels-theory and capability
[NASA-CR-172259] 09 p1329 N84-18679
POSTOP: Postbuckled open-stiffener optimum panels, user's manual
[NASA-CR-172260] 09 p1330 N84-18682
Postbuckling behavior of graphite-epoxy panels 20 p3146 N84-29976

DICKSON, R. E.
Uranium anomalies in Wyoming and parts of adjacent states. National Uranium Resource Evaluation
[DE83-005353] 06 p0866 N84-15638

DICOCCO, G.
Multifrequency observations of three active galaxies 24 p3972 N84-35151

DICUS, D. A.
W decay in supergravity GUTS
[DE83-015144] 02 p0291 N84-11911
Research program in elementary particle theory
[DE84-011502] 20 p3297 N84-30933

DIDIER, A.
Non-invasive methods of cardiovascular exploration in aerospace medicine
[AGARD-AG-277(E)] 11 p1699 N84-21082
Main electrocardiographic abnormalities in the medical examination of flying personnel 11 p1699 N84-21083
Contribution of cardiac mechanograms in the expert examination of flying personnel 11 p1700 N84-21089
Exploration of arterial function using Doppler flow determination. Application to aeronautical and space medicine 11 p1700 N84-21091

DIDIERJEAN, A.
Serre's spectral sequence and homotopy 22 p3636 N84-33050

DIDIO, R. A.
The electronic structure of C(2x2)S/Fe(100): S 3p-level dispersions and linewidths. Revision
[AD-A138124] 12 p1797 N84-21725
Momentum dependent line shapes in photoemission
[AD-A137968] 12 p1913 N84-22461

DIDION, D.
Computer modeling of the vapor compression cycle with constant flow area expansion device
[PB83-226639] 01 p0156 N84-11029
Computer modeling of the vapor compression cycle with constant flow area expansion device: Appendix J
[PB83-226647] 01 p0156 N84-11030
Laboratory evaluation of the steady-state and part load performance of absorption type heating and cooling equipment
[PB84-182146] 21 p3376 N84-31426

DIEBERT, D.
CDC to CRAY FORTRAN conversion manual
[NASA-CR-166574] 12 p1879 N84-22243

DIEBOLD, B.
Detectors at 20 TeV and detector considerations for a high luminosity hadron-hadron machine 06 p0911 N84-15920

DIEBOLD, G. J.
Photochemical generation of the optoacoustic effect
[DE84-003712] 08 p1228 N84-18023

DIEBOLD, R.
Hadron-hadron collider group
[DE83-010704] 03 p0437 N84-12865
Angular coverage of detectors 06 p0914 N84-15940
Comparison of some SSC beam parameters for pp and anti pp
[DE84-010729] 20 p3293 N84-30908

DIEGLE, R. B.
Chemical properties of metallic glasses
[DE83-017353] 03 p0357 N84-12322

DIEHL, W.
A CO2 laser transceiver package with Gbit/sec capability for space-to-space communications 24 p3905 N84-34731

DIEKMANN, F. J.
On the derivation of cloud structure parameters from aircraft measurements 10 p1536 N84-20062

DIEKMANN, O.
The dynamics of structured populations: Some examples
[MC-TW-241/83] 07 p1064 N84-16906
On the stability of the cell size distribution
[MC-TW-242/83] 07 p1065 N84-16907

DIEKMANN, V. L.
Preliminary airworthiness evaluation of the Rutan Aircraft Factory (RAF), Incorporated LONG-EZ airplane
[AD-A140765] 17 p2606 N84-26695

DIELS, J. C.
Coherent propagation and sum frequency generation into the vacuum ultraviolet
[AD-A130729] 01 p0066 N84-10428
Phase conjugation in a ring laser cavity
[AD-A131156] 02 p0226 N84-11480
Study of VUV generation by coherent resonant frequency mixing in metal vapors
[AD-A140800] 17 p2663 N84-26989

DIENES, J. K.
Statistical crack mechanics
[DE83-014124] 01 p0098 N84-10637
Three-dimensional computer modeling of a shock-recovery experiment
[DE83-015915] 02 p0220 N84-11441
Frictional hot-spots and statistical crack mechanics
[DE84-003784] 09 p1290 N84-18423
The effect of finite rotation on a problem in plastic deformation
[DE84-012627] 21 p3423 N84-31710

DIERCKS, J. W.
Forecast verification and reconnaissance data for Southern Hemisphere tropical cyclones
[AD-A130187] 01 p0108 N84-10700

DIERKING, C.
Climatological frequency distributions for Juneau, Alaska
[PB84-154814] 14 p2180 N84-24059

DIERKSEN, J. M.
A study of annular diffuser flow using a photon-correlating laser Doppler anemometer
[AD-A137019] 10 p1493 N84-19762

DIERLAM, J. J.
Increase in whole-body peripheral vascular resistance during three hours of air or oxygen prebreathing
[NASA-TM-58261] 20 p3259 N84-30684

DIERSSEN, G. W.
A thermal analysis approach applied in early stages of a program 10 p1442 N84-19421
DIESTLER, D. J.
Vibrational relaxation of diatomic molecules in solids at low temperatures 10 p1559 N84-20217
DIETDERICH, D. R.
Pulsed magnetic field testing of multifilamentary Nb3Sn superconducting wire
[DE84-008250] 15 p2414 N84-25492
Critical current density of bronze-processed multifilimentary Nb-3Sn wires with magnesium addition to the matrix
[DE84-014579] 23 p3719 N84-33576
DIETER, K. M.
United States Air Force Academy, Department of Chemistry research: AY 1982-83
[AD-A141015] 18 p2808 N84-27828
DIETRICH, B.
The shortwave radiation budget depending on the optical parameters of the atmosphere 10 p1535 N84-20054
DIETRICH, E.
Upper air sounding subprogram of Alpine Experiment (ALPEX) 18 p2889 N84-28337
DIETRICH, F. S.
What can be learned with fast neutrons?
[DE83-015783] 01 p0144 N84-10948
DIETRICHS, H. J.
Increase of efficiency in cooled high temperature turbines
[BMFT-FB-W-84-019] 21 p3343 N84-31212
DIETZ, W. B.
The NEBULA standard computer architecture
[AD-P003532] 21 p3331 N84-31136
DIETZE, W. T.
Development of mechanically-stacked multijunction solar cell for concentrator applications
[DE84-008355] 15 p2363 N84-25177
Development of a 30 percent efficient 3-junction monolithic cascade solar cell 19 p3047 N84-29328
DIEUDONNE, J. E.
Test and evaluation of the Satellite-Aided Maritime Search and Rescue System (SAMSARS). Volume 1: System description and test results
[PB84-184621] 22 p3540 N84-32412
Test and evaluation of the Satellite-Aided Maritime Search and Rescue System (SAMSARS). Volume 2: Hardware circuitry and software programs
[PB84-184639] 22 p3540 N84-32413
DIFILLIPO, D.
Quantum optics and photonics
22 p3682 N84-33344
DIGIACOMO, A. F.
Environmental qualification tests, signal conditioning unit, SD802 materials experiment
[AD-A138910] 13 p1987 N84-22897
Certification vibration tests, SD802 materials experiment
[AD-A138547] 13 p2001 N84-22982
DIGONNET, M. J. F.
Diode pumped fiber laser
[AD-A138198] 12 p1820 N84-21866
DIGREGORIO, C.
A digital ferrite phase-shifter for high power S-band operation 06 p0906 N84-15886
DIJAK, J. T.
Computer-aided synthesis and design of monolithic microwave GaAs MESFET amplifiers
[AD-A132474] 04 p0525 N84-13452
DIK, J. J.
Tests for preference
[MATH-CENTRE-TRACTS-162]
08 p1217 N84-17939
DILL, C. C.
Launch vehicle aerodynamic data base development comparison with flight data 01 p0018 N84-10117
DILLARD, J. F.
Expert systems for price analysis: A feasibility study
[AD-P002795] 13 p2057 N84-23341
An intelligent manual for price analysis
[AD-P002798] 13 p2057 N84-23344
Report on the feasibility of designing expert systems for contract price analysis
[AD-A140854] 17 p2770 N84-27590
The design of an expert system for contract price analysis
[AD-A140927] 18 p2943 N84-28662
DILLARD, R. A.
Computing confidences in tactical rule-based systems by using Dempster-Shafer theory
[AD-A137274] 10 p1562 N84-20237
DILLE, J. R.
The 1980 and 1981 accident experience of civil airmen with selected visual pathology
[AD-A134898] 08 p1101 N84-17158
DILLEHAY, D. R.
Resonance line broadening of alkali metals in pyrotechnic flames
[AD-A135885] 09 p1279 N84-18355
DILLER, T. E.
Design and evaluation of a pulsating-flow wind tunnel
[PB84-116086] 09 p1260 N84-18223
Heat transfer in oscillatory flow
[DE84-005193] 10 p1494 N84-19768
DILLES, J. H.
The petrology and geochemistry of the Yerington Batholith and the Ann-Mason Porphyry Copper Deposit, Western Nevada 21 p3441 N84-31828
DILLET, A.
Robotisation of dye penetrant inspection: A study of a prototype and its development
[BLL-RISLEY-TRANS-4585-(9091.9)]
22 p3606 N84-32847
DILLINGHAM, T. W.
Real-time CGSI (Computer Generated Synthesized Imagery)-single pipeline processor
[AD-P003480] 21 p3512 N84-32247
DILLON-TOWNES, L. A.
Thermoelectric temperature control system for the pushbroom microwave radiometer (PBMR)
[NASA-TM-85824] 18 p2836 N84-28000
DILLON, M. M.
Ultraviolet-laser triggering of a 5-megavolt multistage gas switch
[DE83-013641] 01 p0087 N84-10570
Ultraviolet laser triggering of the 6 MV PBFA-2 gas switch
[DE84-014004] 23 p3755 N84-33802
DILLON, O. W., JR.
An improved analysis of the thermal buckling of silicon sheet 18 p2938 N84-28633
DILLON, T. M.
WAZP observations during MILDEX October-November 1983
[AD-A141048] 18 p2893 N84-28358
DILS, C. T.
Reserve Li/SOCl2 battery safety testing
23 p3736 N84-33678
DILS, R. R.
Fiberoptic probe for measuring high frequency temperature fluctuations in combustion gases
[DE84-006784] 14 p2148 N84-23869
DIMAGGIO, F. D.
Yield surface for bars including warping restraint
[AD-A131393] 03 p0388 N84-12533
DIMARIA, D. J.
Study of the physics of insulating films as related to the reliability of metal-oxide semiconductor devices
[AD-A133674] 05 p0754 N84-14944
DIMARINO, A.
MIL-STD-1553B Marconi LSI chip set in a remote terminal application
[AD-P003538] 21 p3332 N84-31142
DIMICELI, E. V.
A preliminary study of solar powdered aircraft and associated power trains
[NASA-CR-3699] 04 p0486 N84-13194
DIMITRIADIS, E.
Random vibrations of multicomponent structures
22 p3607 N84-32854
DIMMLER, D. G.
Memory intensive functional architecture for distributed computer control systems
[DE84-002579] 05 p0720 N84-14719
DIMOTAKIS, P. E.
Chemically reacting turbulent shear layers
[AD-A131553] 02 p0295 N84-11931
Chemical reactions in turbulent mixing flows, revision
[AD-A133874] 05 p0647 N84-14258
DIMOV, G. I.
Pulsed high-current source of negatively charged hydrogen ions
[DE84-012989] 21 p3496 N84-32158
DIMSDALE, J. S.
System identification of structures with joint rotation
03 p0358 N84-12330
System identification of structures with joint rotation
[PB84-192210] 20 p3205 N84-30357
DINANNO, L. R.
An RC-1 organic Rankine bottoming cycle for an adiabatic diesel engine
[NASA-CR-168256] 21 p3521 N84-32306
DINAPOLI, F. R.
TRISTEN/FRAM IV arctic ambient noise measurements
[AD-A140656] 17 p2763 N84-27549
DINEEN, K. J.
Application of the PAFEC 75 software package
[NPL-QU-66] 12 p1878 N84-22240
DINELLI, B. M.
Precise measurements of bistability in a CO/sub 2 laser with intracavity saturable absorber
14 p2238 N84-24431
DINENNO, P. J.
Overall fire safer 11 p1727 N84-21264
DINER, D. J.
Bidirectional spectral reflectance of Earth resources: Influence of scene complexity and atmospheric effects on remote sensing 12 p1833 N84-21946
DINERSTEIN, H. L.
Far-IR spectroscopy of the galactic center: Neutral and ionized gas in the central 10 pc of the galaxy
[NASA-CR-166510] 13 p2070 N84-23411
On supernovae as a source of interstellar dust: The current observational picture 16 p2569 N84-26488
Infrared polarimetry of young clusters
16 p2572 N84-26505
New infrared observations of IRS1, IRS3 and the adjacent nebula in the OMC-2 cluster
16 p2572 N84-26506
On supernovae as a source of interstellar dust. The current observational picture 18 p2947 N84-28686
Infrared polarimetry of young clusters
18 p2950 N84-28704
New infrared observations of IRS1, IRS3, and the adjacent nebula in the OMC-2 cluster
18 p2950 N84-28705
DINERSTEIN, R.
Measurements, in vivo, of parameters of the dopamine system
[DE83-017964] 03 p0414 N84-12709
DING-FAN, T.
Optical cable-electrical cable hybrid transmission system. The videophone: The optical cable transmission part
[AD-A131012] 02 p0294 N84-11924
DINGER, R. J.
Polarization diversity combining for reduction of angular scintillation: Probability density function for a Two-Point-Scatterer target
[AD-A135859] 09 p1300 N84-18499
Closed loop adaptive control of a 4.0 gigaHertz reactively steered microstrip array - experimental results
[AD-A137523] 10 p1486 N84-19717
Reactively steered adaptive array (Resaa)
13 p1976 N84-22826
DINGUIRARD, M.
Y03: Prequalification of surface treatment. Measurement of laser reflecting power
[ESA-TT-791] 03 p0382 N84-12490
Observation of the Earth in the middle infrared
[ESA-TT-790] 03 p0402 N84-12629
Retroreflector YO3: Study of the optical properties of protected mirrors
[ESA-TT-789] 03 p0443 N84-12907
In-flight absolute radiometric calibration of the thematic mapper
[E84-10044] 04 p0552 N84-13637
Study of the onboard calibration equipment of the HRV camera
[ESA-TT-794] 06 p0848 N84-15529
In-flight absolute radiometric calibration of the thematic mapper
[E84-10064] 06 p0865 N84-15633
In-flight absolute radiometric calibration of the Thematic Mapper 13 p2004 N84-23002
In-flight absolute radiometric calibration of the Thematic Mapper 20 p3208 N84-30383
DINGYOU, F.
A calculation of descent segment of internal ballistics in solid rocket motors
[AD-A137199] 11 p1626 N84-20642
DINI, J. W.
Plating on aluminum: Influence on varying zinc immersion treatment times
[DE83-015246] 02 p0196 N84-11272
Metal finishing and vacuum processes groups
[DE84-011046] 21 p3367 N84-31358
Engineering properties of some coatings
[DE84-002715] 21 p3371 N84-31390
DINIAK, W. C.
Verification and validation: techniques applied to the reconfigurable block SD satellite software
15 p2269 N84-24626
DINKEL, J. D.
Real time testing: The next generation
24 p3850 N84-34416
DINNAT, R. M.
Models of purposive human organization: A comparative study
[AD-A138871] 14 p2247 N84-24491
DINTER, D. A.
Quaternary sedimentation on the Alaskan Beaufort shelf: Sediment sources, glacioeustatism and regional tectonics 14 p2165 N84-23968

DIONNE, N. J.
1 megawatt, 100 GHz gyrotron study
[DE84-006527] 12 p1814 N84-21823
DIORDITSA, I. A.
Novelties in design of instruments for measuring high ac voltages 18 p2826 N84-27840
DIPAOLO, W. D.
The use of remote sensing for soils investigations on BLM lands
[PB84-132075] 10 p1527 N84-20005
DIPINTO, J. G.
A new engineering approach for cable in fire situations using halogenated polymers 11 p1726 N84-21259
DIPIPPO, R.
Two-phase fluid flow through nozzles and abrupt enlargements
[DE84-006991] 12 p1816 N84-21841
DIPPE, D.
Definition and layout of a traffic generator for an air traffic control simulation
[DFVLR-FB-84-15] 20 p3128 N84-29862
DIPPEL, G.
Laser technology: Material for separating, joining and surface treating
[RKW-836] 16 p2497 N84-26019
DIPPOLITO, D. A.
Resonant-3-wave mode coupling in inhomogeneous plasmas: Symmetry breaking by omega meson-*
[DE84-001633] 04 p0606 N84-13999
Locally omnigenous tandem-mirror design
[DE84-001605] 04 p0607 N84-14007
Introduction to tandem mirror physics
[DE84-006844] 12 p1911 N84-22451
A rf-induced stability of mirrors with inverted pressure profiles
[DE84-007018] 13 p2045 N84-23273
RF-induced stability and transport in axisymmetric tandem mirrors
[DE84-010842] 20 p3306 N84-30999
DIPPOLITO, E.
Ordered address binary trees: A technique for the optimization of access to trees on disk
[INPE-2916-PRE/428] 13 p2026 N84-23133
Compacted virtual search tree and addressed ordered binary trees for file organization
[INPE-3075-TDL/161] 16 p2548 N84-26349
DIPRIMA, R. C.
Complex eigenvalues for the stability of Couette flow
[NASA-CR-172251] 04 p0531 N84-13492
DIREKTOR, L. B.
Procedure for wall temperature measurement in a metal vapor laser 13 p1968 N84-22777
DIRLING, R. B.
Starprobe thermal shield evolution 10 p1448 N84-19462
DIRUSCIO, M.
San Marco D/L solar array system design and performance
[NASA-TM-86125] 24 p3916 N84-34795
DIRUSSO, E.
Dynamic behavior of spiral-groove and Rayleigh-Step self-acting face seals
[NASA-TP-2266] 07 p0953 N84-16181
DISHBERGER, D. M.
Preparation of residual gravity maps for the southern Cascade Mountains, Washington using Fourier analysis
[DE84-012546] 19 p3055 N84-29384
DISK, G.
Regional scale simulation of atmospheric structure using VAS data 24 p3929 N84-34869
DISKIN, G.
A comprehensive model to determine the effects of temperature and species fluctuations on reaction rates in turbulent reaction flows
[NASA-CR-175365] 08 p1155 N84-17520
DITTEL, R. H.
Basic investigation on the feasibility of multispectral radiation information from microwave radiometry measurements for Earth-scientific objectives of remote sensing
[DFVLR-FB-83-27] 10 p1526 N84-20000
DITTENHAUSER, J. N.
Command flight path display, phase 1 and 2
[AD-A140870] 17 p2611 N84-26711
DITTMAR, J. H.
A possible explanation for the present difference between linear noise theory and expeimental data for supersonic helical tip speed propellers
[NASA-TM-83467] 05 p0742 N84-14874
Noise of the SR-6 propeller model at 2 deg and 4 deg angles of attack
[NASA-TM-83515] 07 p1069 N84-16946
Fan noise reduction achieved by removing tip flow irregularities behind the rotor - forward arc test configurations
[NASA-TM-83616] 13 p2040 N84-23235
An experimental investigation of the effect of boundary layer refraction on the noise from a high-speed propeller
[NASA-TM-83764] 23 p3821 N84-34230
DIVER, R. B.
High temperature oxide electrolytes for the splitting of water. The ROC process 11 p1740 N84-21351
High temperature oxide electrolytes for the splitting of water--the ROC process
[AD-A140881] 17 p2620 N84-26765
DIVINE, J. R.
Corrosion of carbon steel in oxidizing caustic solutions
[DE84-000209] 15 p2298 N84-24792
DIXIT, N. S.
Diffusion measurements in microemulsions
[AD-A133801] 05 p0648 N84-14265
DIXIT, S. N.
Electron-electron interactions and broken symmetry in one dimension
[DE84-001704] 06 p0925 N84-16014
DIXON, B. F.
Measurement of velocity and displacement of a transvarestraint testing machine
[MRL-TN-473] 05 p0683 N84-14493
DIXON, D. A.
Positive ion-molecule reactions in OCS/hydrocarbon mixtures
[AD-A132350] 04 p0493 N84-13237
DIXON, D. S.
Device and method for frictionally testing materials for ignitability
[NASA-CASE-MSC-20622-1] 13 p1937 N84-22596
DIXON, E. J.
The database management module of the SPLICE system
[AD-A132795] 18 p2945 N84-28671
DIXON, L. C. W.
Low thrust orbit optimization for interplanetary missions, volume 1
[ESA-CR(P)-1904-VOL-1] 23 p3697 N84-33430
DIXON, R. C.
Autonomous Integrated Receive System (AIRS) requirements definition. Volume 2: Design and development
[NASA-CR-175262] 22 p3576 N84-32647
DIXON, R. D.
Influence of a plasma during laser welding
[DE84-004414] 10 p1502 N84-19820
DIXON, R. W.
Tidal and lunar data for Point Mugu, San Nicolas Island and the Barking Sands area, 1984
[AD-A135243] 09 p1351 N84-18828
DIXON, S. C.
Loads and aeroelasticity division research and technology accomplishments for FY 1983 and plans for FY 1984
[NASA-TM-85740] 08 p1097 N84-17135
DIXSON, H. L.
Water resources data for New York, water year 1982. Volume 3: Western New York
[PB84-119544] 10 p1527 N84-20003
DIYESPEROV, V. N.
Transonic flow around protruding corner with free streamline 13 p1972 N84-22796
DIZENOBIO, D.
Description of the preliminary measurements carried out on the 11 GHz experimental facility at Roma-Monte S. Pancrazio
[FUB-39-1982] 05 p0671 N84-14411
DJAFERIS, T. E.
Research in adaptive control hybrid and constrained structure systems
[AD-A140496] 16 p2547 N84-26345
DJUTH, F. T.
The HF-enhanced plasma line 05 p0635 N84-14180
DLOUHY, R.
Observing system simulation experiments related to space-borne Lidar wind profiling. Part 1: Forecast impacts of highly idealized observing systems 12 p1850 N84-22052
Observing system simulation experiments related to space-borne Lidar wind profiling. Part 2: Sensitivity to atmospheric and instrumental influences 12 p1850 N84-22053
DMITRIU-VALCEA, E. J.
Directional extreme wind speed data for the design of buildings and other structures
[PB84-178847] 20 p3171 N84-30139
DMITRIYEVA, N. P.
Structural distinctions of thyroid C cells and parathyroid glands of primates during head-down hypokinesia 15 p2377 N84-25263
DMYTRAKH, I. N.
Dependence of rate of growth in aqueous corrosive medium on electrochemical conditions at tip of crack 24 p3871 N84-34530
DO NASCIMENTO, A. S.
Orbit connections in a parabolic equation
[AD-A135986] 09 p1378 N84-18999
DO, D. V.
Hydrotreating of coal derived liquids
[BMFT-FB-T-83-175] 07 p0973 N84-16304
DOALI, J. O.
Effect of fabrication techniques on consolidated charge burning 13 p1948 N84-22668
DOAZAN, V.
Flux variations of 88 Her through phase transition from far UV to visual 24 p3976 N84-35184
Possible identifying characteristics of Be stars 24 p3976 N84-35185
DOBART, E.
Development of a method for wear measurement of thermoplast journal bearings
[OEFZS-4271] 18 p2849 N84-28093
DOBATKIN, V. I.
Structure and properties of granulated aluminum alloys containing transition metals 24 p3872 N84-34535
DOBBS, N.
On-site survey and analysis of pyrotechnic mixer bays
[AD-A139485] 14 p2132 N84-23779
DOBBS, P. B.
Distributed processing tools definition. Volume 2: Application of software engineering technology
[AD-A137687] 11 p1704 N84-21106
DOBELIS, M. A.
Ultrasound distribution and bone calcium content in experimental animals submitted to hypokinesia and weightlessness 20 p3254 N84-30652
DOBES, I.
SISAL: Streams and Iteration in a Single-Assignment Language. Language reference manual, version 1.1
[DE83-016576] 04 p0582 N84-13843
DOBKIN, D. P.
VLSI, algorithms and graphics 08 p1208 N84-17878
DOBMEIER, J. J.
Intrasystem Analysis Program (IAP) code summaries
[AD-A135673] 09 p1301 N84-18507
DOBROTT, D.
Reversed-field pinch large aspect ratio equilibrium
[DE83-016771] 03 p0449 N84-12953
d-d Tokamak reactor assessment
[DE83-016127] 04 p0609 N84-14019
DDRFP transport code
[DE84-008573] 19 p3109 N84-29753
DOBROVOLSKIY, I. P.
Vertical movements and magnetic variations before earthquakes 18 p2860 N84-28163
DOBROWOLNY, M.
Radio scintillations at large elongation angles: Contributions of waves versus discontinuities
[IFSI-82-4] 03 p0362 N84-12358
Guidance of electromagnetic waves in the ionosphere and magnetosphere
[IFSI-82-15] 03 p0363 N84-12361
Dissipative instabilities of magnetic neutral layers with velocity shear
[IFSI-82-13] 03 p0451 N84-12965
Electrodynamic interactions between a tethered satellite system and the ionosphere 08 p1119 N84-17279
Electromagnetic radiation from a moving conducting tether
[IFSI-84-2] 18 p2831 N84-27973
Space charge around conductors at high potential magnetoplasma
[IFSI-84-4] 18 p2934 N84-28608
Alfven wave dissipation in the solar wind
[IFSI-84-7] 18 p2953 N84-28718
DOBRY, R.
Effective use of earthquake data
[AD-A134077] 06 p0878 N84-15712
DOBRZYNSKI, W.
On the significance of unsteady surface pressures for aerodynamically induced interior noise of automobiles
[DFVLR-FB-83-28] 10 p1423 N84-19303
DOBSON, E. B.
Detection of severe weather by FAA radars
[FAA-RD-79-91] 17 p2733 N84-27372
DOBSON, M. C.
Radar remote sensing for crop classification and canopy condition assessment: Ground-data documentation
[E84-10020] 01 p0099 N84-10643
A simulation study of scene confusion factors in sensing soil moisture from orbital radar
[E84-10042] 04 p0552 N84-13635
Mapping and monitoring renewable resources with space SAR 07 p0988 N84-16403
Dielectric measurements of soils in the 3 to 37 GHz band between -50C and 23C 23 p3768 N84-33883
DOBSON, P. J.
Design, fabrication and testing of a ruggedized fiberoptic cable 11 p1724 N84-21245

DOBSON, W. G.
Fatigue considerations in view of measured load spectra
[AD-A140221] 17 p2679 N84-27067
DOCHAT, G.
Free-piston Stirling engine experimental program: Part 2. An evaluation of loss mechanisms
[DE84-003658] 09 p1325 N84-18661
DOCKERY, G. D.
Analysis and acoustooptical measurements of bulk and surface acoustic wave fields
[NASA-CR-173271] 07 p1069 N84-16945
DOCTOR, S. R.
Qualifications of ultrasonic testing for nuclear inservice inspection applications
[DE84-011899] 20 p3200 N84-30323
DODD, A. G.
The initial mechanical design of hot gas turbine blading using limited information
[PNR-90183] 19 p3032 N84-29234
DODD, C. W.
How to protect a wind turbine from lightning
[NASA-CR-168229] 01 p0102 N84-10661
DODDAPANENI, N.
Safety studies on Li/SOCl-2 reserve battery
[AD-A132279] 04 p0526 N84-13458
DODDS, J. G.
Engineering evaluations and studies. Volume 1: Exhibit A
[NASA-CR-171724] 06 p0794 N84-15174
Engineering evaluations and studies. Volume 2: Exhibit B, part 1
[NASA-CR-171725] 06 p0794 N84-15175
Engineering evaluations and studies. Volume 2: Exhibit B, part 2
[NASA-CR-171726] 06 p0794 N84-15176
Engineering evaluations and studies. Volume 3: Exhibit C
[NASA-CR-171727] 06 p0794 N84-15177
DODDS, R. H., JR.
Theoretical and software considerations for nonlinear dynamic analysis
[NASA-CR-174504] 06 p0858 N84-15589
Failure prediction of notched pressure vessels using the CTOD approach
[DE84-013057] 22 p3612 N84-32683
DODDS, S. A.
Muon spin relaxation in ferromagnetic PdMn
[DE83-012659] 03 p0453 N84-12979
DODDS, W. J.
Clean catalytic combustor program
[NASA-CR-168323] 06 p0789 N84-15151
Broad specification fuels combustion technology program
[NASA-CR-168179] 06 p0812 N84-15283
NASA/General Electric broad-specification fuels combustion technology program
14 p2107 N84-23638
Combustor technology for broadened-properties fuels
15 p2289 N84-24736
DODERER, E.
Energy and peak power saved by passively cooled residences 16 p2513 N84-26130
DODGE, D. M.
Small wind systems field evaluation. Volume 1: Executive summary and program description
[DE84-006916] 12 p1844 N84-22023
Small wind systems field evaluation. Volume 2: Institutional issues
[DE84-006913] 12 p1844 N84-22024
Small wind systems (field evaluation). Volume 4: Small wind system performance data
[DE84-006920] 14 p2173 N84-24014
Small wind systems field evaluation. Volume 3: Utility issues
[DE84-006919] 15 p2365 N84-25190
DODGE, F. T.
Revision and experimental verification of the hazard assessment computer system models for spreading, movement, dissolution, and dissipation of insoluble chemicals spilled onto water, volume 1
[AD-A140635] 17 p2724 N84-27337
DODGE, L. G.
Development of carbon slurry fuels for transportation (hybrid fuels, phase 2)
[NASA-CR-174659] 19 p2992 N84-28960
DODGE, R. N.
Heat generation in aircraft tires under braked rolling conditions
[NASA-CR-3768] 06 p0858 N84-15587
DODGE, R. R.
Respiratory effects on population from low-level exposures to ozone
[PB83-246132] 04 p0573 N84-13774
DODGE, W. G.
System for maintaining the alignment of mandrels in filament winding operations
[DE84-014660] 23 p3727 N84-33617
DODSON, B.
Chemistry of shock compression: A bibliography
[DE84-002192] 05 p0651 N84-14279
DODSON, B. W.
Generation of ultrafast optical fiducials for shock-wave experiments
[DE83-013765] 01 p0148 N84-10974
Monte Carlo simulation of shock-induced lattice damage
[DE83-015189] 01 p0154 N84-11016
DODSON, R. O., JR.
Comparison of flight measured, predicted and wind tunnel measured winglet characteristics on a KC-135 aircraft 18 p2787 N84-27691
DOE, D. D.
A corporate approach to an embedded software development and support standard
[AD-P003589] 21 p3340 N84-31194
DOEKMECI, M. C.
Dynamic applications of piezoelectric crystals. Part 3: Experimental studies 10 p1505 N84-19840
DOENECKE, J.
Exact solution for emission from surface elements of a planet 10 p1447 N84-19453
Feasibility study of advanced optical techniques for ocean color measurement
[MBB-R3700/292] 12 p1837 N84-21974
DOENITZ, W.
High temperature electrolysis of water vapor. Status and perspectives of the German research and development activities 11 p1739 N84-21349
High temperature electrolysis of water vapor: HOT ELLY, phase 2A
[BMFT-FB-T-84-032] 16 p2463 N84-25784
DOERBECK, F. H.
GaAs FET logic at low temperatures
[AD-A135007] 08 p1150 N84-17483
GaAs/GaAlAs bipolar heterojunction gate array
[AD-A138203] 12 p1913 N84-22466
DOERFFER, P.
Reduction of the shock wave intensity by modifying the transonic blade trailing edge
[NASA-TM-77029] 09 p1251 N84-18169
DOERFLINGER, C. W.
Monitoring software development through dynamic variables 13 p2027 N84-23139
DOERFLINGER, D.
The Project STRAFAM: Test of a new parachute based instrument carrier for stratospheric research
[BMFT-FB-W-84-021] 21 p3445 N84-31859
DOERNER, W.
Further development in electron beam lithography
[BMFT-FB-T-83-099] 02 p0216 N84-11415
DOGAN, M.
Squeeze-film damping of rotor-dynamic systems
08 p1168 N84-17610
DOGGETT, R. V., JR.
Measured transonic unsteady pressures on an energy efficient transport wing with oscillating control surfaces
18 p2783 N84-27663
DOGLIANI, H. O.
White Horse program review, FY 82
[DE84-002290] 05 p0745 N84-14896
DOHERTY, F. E.
Contract requirements: A key to controlling DoD acquisition costs
[AD-P002828] 13 p2062 N84-23373
DOHERTY, J.
Loss factors measured in metal matrix composite materials
[AD-A143542] 22 p3545 N84-32440
DOHERTY, M.
Decision making and information processing under various uncertainty conditions
[AD-A132051] 04 p0572 N84-13770
DOHERTY, M. P.
Jet-impact nebulization for sample introduction in inductively coupled plasma spectrometry
[AD-A133152] 06 p0920 N84-15982
DOHERTY, P.
Modelling of ionospheric irregularities and total electron content
[AD-A141236] 18 p2880 N84-28284
DOHERTY, T. J.
Initial operation of the compressed air experiment at Pittsfield, Illinois
[DE83-016930] 03 p0404 N84-12643
DOHREN, H.
Preparation of a design study for the construction of a 2 million tons/annum commercial scale hydrogenation plant
[BMFT-FB-T-83-135] 03 p0405 N84-12652
DOI, T.
An MPD thruster with liquid metal injection
[ISAS-610] 20 p3165 N84-30103
DOISNEAU, R. G.
No. 263 chemical and electrochemical properties in molten alkaline hydroxides. 11: Potential-acidity diagram for iron in molten sodium hydroxide at 350 deg C
[BLL-RISLEY-TR-4761-(9091.9F)]
01 p0036 N84-10228
Chemical and electrochemical properties in molten alkaline hydroxides
[BLL-RISLEY-TR-4854-(9091.9F)]
08 p1123 N84-17298
DOKER, M.
Prediction of condensation onset and growth in the European Transonic Wind Tunnel (ETW)
14 p2096 N84-23578
DOKTOR, M. F.
Preliminary engineering report for design of a subscale ejector/diffuser system for high expansion ratio space engine testing
[NASA-CR-171137] 21 p3354 N84-31273
DOKUCHAYEV, L. V.
Oscillations of a reservoir with a fluid on the free surface of which a membrane is located
[AD-A142127] 19 p3024 N84-29179
DOKUCHAYEV, V. G.
Newly discovered effect of interaction of optical radiation and glass 21 p3482 N84-32069
DOLAN, R.
Bibliography of the research staff of the UK Institute of Oceanographic Sciences, Bidston Observatory (1979-83)
[AD-A138597] 14 p2183 N84-24080
DOLAN, R. D.
The Enforcer aircraft program: A lower-cost alternative weapon system
[AD-A141564] 19 p2955 N84-28728
DOLANSKY, J.
A timing and memory sizing study for wavenumber analyzer
[AD-A135581] 09 p1318 N84-18611
DOLEV, D.
Planar embedding of planar graphs
[AD-A132538] 04 p0579 N84-13820
DOLGOPOLSK, B. A.
Study of factors leading to regrouping of the chain structure during ionic diene polymerization
[BLL-M-28719-(5828.4)] 01 p0048 N84-10309
DOLGOPOLSKY, A.
On stress analysis of a crack-layer
23 p3759 N84-33824
On stress analysis of a crack-layer
[NASA-CR-174774] 24 p3912 N84-34774
DOLGOV-SAVELYEV, G. G.
Energy characteristics of plasma generated in air near target by radiation from CO2 laser
21 p3488 N84-32103
DOLHAN, P. A.
An evaluation of a hydrophobic silica pigment used as a water-repellent finish
[AD-A137389] 10 p1466 N84-19575
DOLK, D. R.
A knowledge-based system for LP (Linear Programming) modeling
[AD-A139991] 15 p2392 N84-25357
DOLL, C. E.
Orbit determination and prediction study for Dynamic Explorer 2
[NASA-TM-85098] 02 p0183 N84-11192
DOLL, M.
Database transfers between several systems
[DE84-003841] 07 p1085 N84-17056
DOLLYHIGH, S. M.
Development and analysis of a STOL supersonic cruise fighter concept
[NASA-TM-85777] 13 p1930 N84-22553
DOLMATOV, V.
Powder metallurgy R and D organizations featured
23 p3707 N84-33502
DOLOTENKO, M. I.
Instability of collapsing cylindrical shell during magnetic energy density 20 p3287 N84-30872
DOLPH, C. L.
Applications of Non-Self-Adjoint operator theory to the Singularity Expansion Method (SEM) and to the Eigenmode Expansion Method (EEM) in acoustic and electromagnetic problems
[AD-A135177] 08 p1219 N84-17955
DOMA, A. M. E.
Generalized inverses of matrices and its applications
[AD-A138274] 12 p1894 N84-22337
DOMACK, C. S.
Geometries for roughness shapes in laminar flow
[NASA-CASE-LAR-13255-1] 03 p0320 N84-12092

Application of selected advanced technologies to high performance, single-engine, business airplanes
[NASA-CR-172361] 18 p2792 N84-27719

DOMACK, M. S.
Fracture temperature and flaw growth in nitronic 40 at cryogenic temperatures
[NASA-TP-2312] 14 p2127 N84-23750

DOMACZUK, J.
Study of metabolic sequelae of using positive intrapulmonary pressure during exposure to accelerations 07 p1045 N84-16776

DOMAGALA, P.
Segmentation of the speech signal based on changes in energy distribution in the spectrum
[ISSN-0208-5658] 23 p3729 N84-33635

DOMAIN, J. S.
A concept for mission-oriented planning for system acquisition at the Defense Communications Agency
[AD-P002823] 13 p2061 N84-23368

DOMALAVAGE, P.
Structures and properties of rapidly solidified 9Cr-1Mo steel
[DE84-001276] 04 p0499 N84-13276

DOMALSKI, E. S.
Assessing the credibility of the calorific value of municipal solid waste
[PB84-175470] 16 p2474 N84-25861

DOMANSKI, P.
Computer modeling of the vapor compression cycle with constant flow area expansion device
[PB83-226639] 01 p0156 N84-11029

DOMBERT, W. E.
Is structural interface standardization beneficial?
22 p3585 N84-32702

DOMBROSKI, R.
Enhanced compressible fluids investigation
[AD-A131622] 02 p0218 N84-11428

DOMBROVSKIY, V. V.
Problems in the development of high-power turbogenerators with superconducting field windings
[AD-A136525] 09 p1325 N84-18657

DOMESHEK, E. A.
An informal study of program comprehension
[AD-A142224] 19 p3079 N84-29534

DOMIK, G.
Evaluation of radargrammetric stereo
[AD-A139565] 14 p2141 N84-23835
Differential rectification of SLR-images using map-derived and radar-generated digital elevation models
[AD-A141828] 19 p3006 N84-29054
Evaluation of radar stereo viewability by means of a simulation technique 23 p3779 N84-33959

DOMINGO, N.
Theoretical analysis of a kinematic Stirling-cycle heat pump for space conditioning applications
[DE84-010240] 15 p2344 N84-25072

DOMINGO, V.
A high-resolution study of ultra-heavy cosmic-ray nuclei (A0178) 15 p2275 N84-24661

DOMINGUE, J. A.
Characterization of macrosegregation in ESR IN-718
24 p3882 N84-34598

DOMINGUEZ, C. A.
Intermediate-energy nuclear theory
[DE84-012971] 22 p3654 N84-33161

DOMINICK, W. D.
NASA RECON: Course development, administration, and evaluation
[NASA-CR-173922] 23 p3834 N84-34318

DOMINIK, D. F.
Approach to establishing the effect of aeroelasticity on aerodynamic characteristics of the space shuttle orbiter
01 p0021 N84-10133

DOMINIQUE, P.
Second Ariane launch pad at Kourou, Belgian participation 17 p2640 N84-26889

DOMINY, J. F.
The abundances and evolutionary state of the early R stars 05 p0764 N84-15010

DOMMANN, A.
Measurement of diffusion constant by pulsed magnetic field gradient NMR in Ag26I13W4O16 RbAg4I5 and KAg4I5 11 p1743 N84-21373

DOMMERMUTH, E.
Doppler-based target localization by a distributed system of omnidirectional sensors
[REPT-3-95] 23 p3729 N84-33636

DOMMERMUTH, F.
Estimating the trajectory of a sound source moving without acceleration using observations from a single stationary sensor
[LFD-215] 16 p2553 N84-26381

DONAGHY, F. A.
The production and evaluation of high-strength optical fibre 19 p3104 N84-29717

DONAGHY, J. J.
Normalized emittance of SITEX negative ion source
[DE84-003285] 07 p1072 N84-16967

DONAHUE, M. J.
Specification for a Program for an Interative Aeroelastic Solution (PIAS)
[NASA-CR-172200] 04 p0479 N84-13153

DONAKOWSKI, T. D.
USAF advanced terrestrial energy study. Volume 1: Project summary
[AD-A133803] 05 p0699 N84-14588
USAF advanced terrestrial energy study. Volume 2: Technology handbook
[AD-A133272] 06 p0873 N84-15684
USAF advanced terrestrial energy study. Volume 3: Parameter survey
[AD-A133501] 06 p0874 N84-15685
USAF advanced terrestrial energy study. Volume 4: Analysis, data, and bibliography
[AD-A133514] 06 p0874 N84-15686

DONALD, B. R.
Hypothesizing channels through free-space in solving the findpath problem
[AD-A133632] 05 p0732 N84-14810

DONALDSON, E.
Preliminary investigation of variation in some dark adaptation aspects for possible relevance to military helicopter aircrew
[AD-A130231] 01 p0113 N84-10733

DONALDSON, E. C.
Proceedings of the 1982 Forum on Subsidence Due to Fluid Withdrawals
[DE84-001028] 05 p0704 N84-14618

DONALDSON, J. A.
Mathematical analysis 14 p2245 N84-24479

DONALDSON, J. R.
Nonlinear least squares regression using STAR-PAC: The standards time series and regression package
[PB84-166214] 15 p2394 N84-25365
Introduction to STARPAC. The standards time series and regression package
[PB84-178367] 17 p2755 N84-27492

DONALDSON, R. J., JR.
Mesocyclone detection and classification algorithm
[AD-A131626] 03 p0411 N84-12691

DONALDSON, R. R.
Fabrication of machined optics for precision applications
[DE83-015720] 03 p0442 N84-12900
Design of a high-performance slide and drive system for a small precision machining research lathe
[DE84-011059] 22 p3606 N84-32845

DONATELLI, D. E.
Proceedings of the Air Force Geophysics Laboratory Workshop on Natural Charging of Large Space Structures in Near Earth Polar Orbit
[AD-A134894] 16 p2521 N84-26185

DONATH, R. C.
Statistics of crack growth of a superalloy under sustained load
[AD-A130395] 01 p0095 N84-10616
Improving NDE (Non-destructive evaluation) capability through multiple inspection with application to gas turbine engine disks
[AD-A131762] 03 p0385 N84-12509

DONATI, S.
Advanced techniques of laser telemetry
06 p0906 N84-15883

DONATO, M.
Design of an orbital heating simulator using IR techniques 24 p3864 N84-34487

DONCHIN, E.
The event related brain potential as an index of information processing, cognitive activity, and skill acquisition: A program of basic research
[AD-A137779] 11 p1702 N84-21100
Psychophysiological tools in engineering psychology
[AD-P003337] 18 p2911 N84-28461

DONEGAN, T. L.
Unsteady viscous-inviscid interaction procedures for transonic airfoil flows
[AD-A143764] 23 p3690 N84-33390

DONELAN, M. A.
Does the scatterometer see wind speed or friction velocity? 17 p2713 N84-27270

DONG, P.
The optimization of GMC over GF(p)
[AD-P002373] 14 p2195 N84-24164

DONGARRA, J. J.
Squeezing the most out of an algorithm in Cray FORTRAN
[DE84-003871] 09 p1369 N84-18941
EISPACK: A package for solving matrix eigenvalue problems
[DE84-005408] 11 p1717 N84-21197

DONIN, V. I.
Experiments in development of powerful dye laser
21 p3486 N84-32095

DONIVAN, S.
Calibration and performance of a high-resolution gamma-spectroscopy system
[DE84-012792] 22 p3548 N84-32482

DONKER, A. W.
Meteorologic report based on the work of Oosterscheldewerken
[KNMI-TR-45] 16 p2529 N84-26236

DONLEY, S. T.
Simulation and evaluation of the Sh-2F helicopter in a shipboard environment using the interchangeable cab system
[NASA-TM-84387] 02 p0180 N84-11176

DONNE, M. D.
Heat transfer for turbulent flow of helium or hydrogen in a tube at high temperatures: Evaluation with the method of Petukhov
[KFK-3593] 07 p1005 N84-16518

DONNELLAN, T. M.
The curing of a bisphenol A type epoxy resin with 1,8 Diamino-P-Menthane
[AD-A138977] 13 p1964 N84-22761

DONNELLEY, J. E.
Syntax and semantics of a LINCS control monologue
[DE84-011399] 20 p3277 N84-30805

DONNELLY, J. J., JR.
Water and alcohol use in automotive diesel engines: Alternative Fuels Utilization Program
[DE84-004196] 10 p1470 N84-19603

DONNELLY, M. I.
Chemical and physical characterization of the activation of ribulosebiphosphate carboxylase/oxygenase
[DE83-017226] 04 p0571 N84-13764

DONNELLY, R. F.
NIMBUS-7 SBUV (Solar Backscatter Ultraviolet) observations of solar UV spectal irradiance variations caused by solar rotation and active-region evolution for the period November 7, 1978 - October 26, 1979
[PB84-108166] 08 p1188 N84-17743
Temporal variations of solar UV spectral irradiance caused by solar rotation and active region evolution
17 p2780 N84-27650
The NOAA-ERL-ARL solar UV radiation and climate research project program description
[PB84-183292] 20 p3319 N84-31070

DONNET, G.
Calculation of electromagnetic fields on the surface of and inside cavities
[SNIAS-841-422-108] 21 p3388 N84-31506

DONOGHUE, J. F.
Optimization methods applied to hybrid vehicle design
[NASA-CR-168292] 09 p1406 N84-19185

DONOHO, P. L.
Development of an advanced ocean-bottom sensor system
[AD-A135901] 09 p1345 N84-18788

DONOVAN, L. F.
Redesign and cascade tests of a supercritical controlled diffusion stator blade-section
[NASA-TM-83635] 13 p1926 N84-22533
Calculation of transonic flow in a linear cascade
[NASA-TM-83697] 15 p2255 N84-24539

DONOVAN, R. M.
Space station propulsion analysis study
[NASA-TM-83715] 16 p2459 N84-25764

DONOVAN, T. J.
Geochemical detection of prospective petroleum areas in Arctic regions 14 p2166 N84-23972

DONOVAN, W. J.
Neurophysiological bases of event-related potentials
[AD-A135263] 09 p1362 N84-18897

DONSKAYA, L. V.
Physiological responsiveness of operators in relation to work and homeostatic disorders
18 p2894 N84-28365

DONTHNIER, M. L.
Materials properties data base computerization
12 p1889 N84-22303

DOOFILHO, E. F.
SIRIUS: Bibliographic search and retrieval system
[INPE-2771-PRE/344] 15 p2417 N84-25512

DOOLEY, A. H.
An extension of deLeeuw's theorem to the N-dimensional rotation group 22 p3636 N84-33048

DOOLEY, A. W.
Study of total gamma spectra correlation for extending identification range over photopeak analysis
[AD-A144637] 24 p3962 N84-35090

DOOLEY, R.
Development of thermionic integrated circuits for applications in hostile environments
[DE84-011374] 21 p3393 N84-31533

DOOLITTLE, T. L.
Physical performance tests as predictors of task performance
[AD-P003257] 18 p2905 N84-28424
DOONG, J. L.
Post-buckling of initially stressed thick plates
24 p3958 N84-35060
DOORMAN, K. W. F. M.
Coupling of airborne sound in a sandy soil
[LEOK-TR-1983-09] 13 p2040 N84-23238
DOORNBOS, G.
Engine/airframe interference drag at cruise conditions, using propulsion simulation
[NLR-TR-82012-U] 03 p0321 N84-12098
DOR, J. B.
The T2 cryogenic wind tunnel with self-adaptable walls at ONERA/CERT 14 p2095 N84-23567
DORAN, J. C.
Turbulent structure of stably stratified nocturnal slope flows
[AD-A140740] 17 p2734 N84-27378
DORCIC, J. L.
Laser surface hardened patterns for increased ballistic protection
[AD-A130385] 01 p0043 N84-10277
DOREY, G.
The effect of damage on the tensile and compressive performance of carbon fibre laminates
01 p0034 N84-10213
DOREY, R. C.
Research into the thermal decomposition of selected energetic material candidates (Project order ATL-2-094)
[AD-A138730] 13 p1966 N84-22770
DORFMAN, M.
Analysis of Sweet Lake geopressured-geothermal aquifer
[DE84-006053] 12 p1836 N84-21972
DORIAN, P. B.
Development of a technique for short-term prediction of hydrometeors using advection and physical forcing
[AD-A132259] 04 p0567 N84-13740
DORMAN, H. J.
Earth strain measurements with the transportable laser ranging system: Field techniques and planning
[NASA-CR-175150] 08 p1186 N84-17725
DORMAN, L. I.
About the formation of particle energy spectrum by the statistical mechanism of particle acceleration: The character of particle energy gain in the statistical acceleration mechanism 24 p3993 N84-35268
The density distribution of galactic cosmic rays allowing for the generalized tensor of anisotropic diffusion and for the real distribution of solar activity
24 p3994 N84-35275
Two large decreases of cosmic ray intensity in August and September, 1979 24 p3994 N84-35278
DORMANSKI, P.
Computer modeling of the vapor compression cycle with constant flow area expansion device: Appendix J
[PB83-226647] 01 p0156 N84-11030
DORNHOEFER, G.
Electronically excited products in the reactions of O(3PJ) atoms with halogenated ethenes
[MPIS-8/1983] 13 p2041 N84-23244
DORNY, C. N.
High angular resolution microwave sensing with large, sparse, random arrays
[AD-A138717] 13 p1983 N84-22874
DORONIN, G. I.
The part played by the skin in the denitration of metal during vacuum arc remelting
[BLL-M-35213-(5828.4)] 01 p0041 N84-10261
DORONINA, T. D.
Demonstration of gas bubbles in canine pulmonary artery and aorta by means of ultrasonic echography with intravenous air infusion 02 p0261 N84-11708
Ultrasonography of canine soft tissues during decompression 20 p3254 N84-30653
DOROSHEV, V. G.
Changes in cardiac output and orthostatic stability of cosmonauts 02 p0259 N84-11697
DOROSHKEVICH, I. L.
Control computer and automation subsystem equipment in Delfin Facility 20 p3289 N84-30880
DORR, M. R.
The approximation theory for the p-version of the finite element method, part 2
[AD-A140952] 18 p2925 N84-28550
DORSEL, A.
Radiation pressure induced optical bistability
14 p2241 N84-24457
DORSEY, J. T.
A manned-machine space station construction concept
[NASA-TM-85762] 10 p1439 N84-19395
Dynamic characteristics of a space-station solar wing array
[NASA-TM-85780] 16 p2458 N84-25758
Preliminary space station solar array structural design study 19 p3047 N84-29335
Structural performance of orthogonal tetrahedral truss Space-Station configurations
[NASA-TM-86260] 22 p3542 N84-32422
DORTLAND, W.
Experimental verification of constitutive equations for creep and the interaction of creep and plasticity under biaxial loading conditions
[REPT-5011202-81-3] 17 p2825 N84-26800
DORTMANS, H. M. J. M.
Job handling in a network of distributed processors
[EUT-82-E-131] 10 p1566 N84-20262
DORUK, M.
The effect of loading rate and temperature on fracture initiation toughness in a low strength steel
15 p2401 N84-25410
DORWART, R. J.
Integrated Application of Active Controls (IAAC) technology to an advanced subsonic transport project: Current and advanced act control system definition study, volume 1
[NASA-CR-165631-VOL-1] 19 p2967 N84-28802
Integrated Application of Active Controls (IAAC) technology to an advanced subsonic transport project: Current and advanced act control system definition study. Volume 2: Appendices
[NASA-CR-165631-VOL-2] 19 p2967 N84-28803
Integrated Application of Active Controls (IAAC) technology to an advanced subsonic transpot project-demonstration act system definition
[NASA-CR-165920] 19 p2967 N84-28804
DORY, R. A.
Inverse plasma equilibria
[DE84-000723] 04 p0607 N84-14008
ATF-1 torsatron studies
[DE84-003314] 09 p1392 N84-19089
DOSANJOS, C. E.
Field studies in the structural society project: Mineralized lineaments
[INPE-2876-NTE/205] 17 p2726 N84-27352
DOSCH, R. G.
Lead zirconate-lead titanate (PZT) ceramics from organic-derived precursors
[DE84-009921] 20 p3164 N84-30095
DOSCH, V. F.
Marking and lighting of unpaved runways - inservice testing
[AD-A140958] 18 p2797 N84-27751
DOSCHEK, G. A.
On the rate of energy input in thermal solar flares
[AD-A138345] 13 p2092 N84-23548
DOSS, S.
Radially resolved simulation of a high-gain free electron laser amplifier
[DE84-003751] 08 p1165 N84-17585
DOSS, S. K.
Moving finite element research for shock hydrodynamics, continuum mechanics and combustion
[AD-P002970] 14 p2201 N84-24206
DOSSANTOS, A. R.
Field studies in the structural society project: Mineralized lineaments
[INPE-2876-NTE/205] 17 p2726 N84-27352
DOSSANTOS, J. R.
Principal components technique analysis for vegetation and land use discrimination
[E84-10135] 16 p2506 N84-26083
Project SERGE: Brazil referential field data for the SIR-A experiment
[INPE-2973-NTE/210] 17 p2711 N84-27259
DOSSER, L. R.
Dynamic thermography of thermite chemical heat sources
[DE84-002837] 07 p0971 N84-16291
DOSTUPOV, B. G.
Static methods in the design of nonlinear automatic control systems
[AD-A143297] 22 p3644 N84-33101
DOSYCHEV, V. V.
Physiological assessment of capacity for processing increasing amounts of visual information by human operators 17 p2740 N84-27398
DOTTI, D.
The use of microprocessors for the instrumentation of nondestructive tests
[CISE-2072] 06 p0855 N84-15571
The use of matrix transducers in medium thickness welding inspection
[CISE-2075] 06 p0855 N84-15572
DOTTS, R. L.
Space shuttle orbiter reusable surface insulation flight results 01 p0025 N84-10157
DOTY, L. J.
Dynamic assessment of B-52B-008 carrier aircraft for the revised Space Shuttle solid rocket booster decelerator subsystem drop test vehicle
[NASA-CR-170989] 12 p1779 N84-21606
DOTY, R. L.
Investigation of mechanisms underlying odor recognition
[AD-A140969] 18 p2914 N84-28482
DOTY, S. B.
Morphological and histochemical studies of bone and cartilage during periods of stimulated weightlessness
09 p1354 N84-18847
DOTY, W. R.
Chemical conversion surfaces for solar-energy applications
[DE84-000107] 04 p0558 N84-13681
DOUGHER, R.
International carbon dioxide-related activities: The international organizations involved and US bilateral arrangements
[DE83-016013] 02 p0245 N84-11602
DOUGHERTY, H. T.
The use of burst transmission to increase communication range: A feasibility study
[PB84-111400] 08 p1147 N84-17467
The evaluation of prediction models for microwave attenuation by rainfall
[PB84-182104] 20 p3176 N84-30170
DOUGHTEN, M. W.
Georges Bank monitoring program: Analysis of trace metals in bottom sediments during the second year of monitoring
[PB84-169465] 16 p2534 N84-26269
DOUGHTY, J. A.
Laser generation of ultrasound
[AD-A138483] 12 p1821 N84-21870
DOUGHTY, P.
Extended development procedure EDeP user's manual
[AD-A131381] 01 p0116 N84-10756
DOUGLAS, D. R.
Lie algebraic methods for particle tracking calculations
[DE84-004310] 11 p1716 N84-21196
DOUGLAS, R. D.
DTIC 2000: A corporate plan for the future
[AD-A143900] 23 p3835 N84-34327
DOUGLAS, S. C.
Gel structures in leached alkali silicate glass
[DE84-009928] 18 p2819 N84-27899
Ampule tests to simulate glass corrosion in ambient temperature lithium batteries, volume 2
[DE84-014330] 22 p3589 N84-32732
DOUGLASS, R. J.
Modeling the user in intelligent user interfaces
[DE84-012664] 05 p0730 N84-14795
DOUKAS, A. G.
Semiconductors investigated by time resolved raman absorption and photoluminescence spectroscopy using femtosecond and picosecond laser techniques
[AD-A131860] 03 p0379 N84-12466
Semiconductors investigated by time resolved Raman absorption and photoluminescence spectroscopy using femtosecond and picosecond laser techniques
[AD-A141381] 19 p3029 N84-29209
DOUROV, N.
Animal models of disuse osteoporosis
23 p3809 N84-34153
DOURSARIS, A.
Metal formability in bulk deformation processes
09 p1293 N84-18446
DOVALE, J. L. M.
Search for new water vapor masers in the direction of ROW 19-20, 38 and 48-49
[INPE-3039-TDL/156] 17 p2775 N84-27622
DOVE, W. P.
Digital signal processing 22 p3684 N84-33357
DOVER, C. B.
Nuclear and particle physics aspects of hyperon and antinucleon interactions
[DE84-010793] 20 p3293 N84-30905
DOVGAL, A. V.
Effect of acoustic perturbations on flow structure in boundary layer with unfavorable pressure gradient
17 p2648 N84-26935
DOVGAYA, G. P.
Production of titanium powders by the electrolysis of chloride-fluoride melts with a soluble anode
[BLL-OA-TRANS-3136-(6196.3)]
08 p1128 N84-17338
DOVIAK, R. J.
Fresnel zone considerations for reflection and scatter from refractive index irregularities
17 p2684 N84-27091
An evaluation of the accuracy of some radar wind profiling techniques 17 p2687 N84-27109

Analysis of lidar, radar and satellite measurements on severe thunderstorms and their environments
24 p3928 N84-34864

DOVICHI, N. J.
Approach to single-molecule detection by laser-induced fluorescence
[DE84-001338] 04 p0542 N84-13572
Prospects for single-molecule detection in liquids by laser-induced fluorescence
[DE84-001702] 09 p1324 N84-18647

DOW, D. D.
Progress in the scene-to-map registration investigation
03 p0394 N84-12572

DOW, J. B.
Phase shift keying apparatus
[AD-D011119] 22 p3577 N84-32660

DOW, N. F.
Guidelines for composite materials research related to general aviation aircraft
[NASA-CR-3720] 02 p0187 N84-11218

DOW, S. J.
Centralized monitoring and control of environmental chambers by digital computer
[AD-A138278] 12 p1773 N84-21563

DOWD, T.
An assessment of ablative organotin antifouling (AF) coatings
[AD-A134019] 05 p0658 N84-14326

DOWDICAN, M.
Detection of damage in hydraulic components by acoustic emission techniques
[AD-A143262] 22 p3607 N84-32850

DOWDLE, J. R.
A comparison of two air defense command and control models
[AD-P002876] 13 p1977 N84-22837

DOWELL, E. H.
Aeroelastic analysis using nonlinear aerodynamic methods
[AD-A135133] 08 p1099 N84-17146

DOWGIALLO, E. J., JR.
Baseline and verification tests of the electric vehicle associates' current fare station wagon
[AD-A132549] 04 p0617 N84-14072

DOWLING, E. J.
A host-target programming support environment for the production of high-quality real-time systems
05 p0724 N84-14753

DOWLING, R. P., II
Flammability characteristics of some epoxy resins and composites
[AD-A135282] 08 p1137 N84-17394

DOWLING, T.
Ada-Europe guidelines for the portability of Ada programs, second edition
[NPL-DITC-27/83] 03 p0419 N84-12739

DOWNARD, D. F.
Comparison of statistical energy analysis and finite element analysis vibration prediction with experimental results 10 p1516 N84-19923

DOWNES, L. W.
Radiative collisional laser feasibility demonstration
[AD-A135793] 09 p1322 N84-18640

DOWNEY, A. N.
Microwave monolithic integrated circuit development for future spaceborne phased array antennas
[NASA-TM-83518] 04 p0517 N84-13399
MMIC technology for advanced space communications systems
[NASA-TM-83749] 20 p3173 N84-30147
Monolithic microwave integrated circuits: interconnections and packaging considerations
[NASA-TM-83774] 21 p3382 N84-31461

DOWNEY, P.
Product definition data interface
12 p1891 N84-22314

DOWNEY, P. C.
Aquaculture techniques: A production forecasting model for aquaculture systems
[PB83-221713] 01 p0112 N84-10730

DOWNEY, R. M.
Communicating between the IBM personal computer and the Wang word-processing system
[DE83-017987] 04 p0578 N84-13809
Communicating between the IBM personal computer and the Wang word processing system
[DE84-010423] 20 p3267 N84-30729

DOWNEY, S. W.
Selective laser ionization for mass-spectral isotopic analysis
[DE83-017303] 03 p0381 N84-12483
Resonance ionization mass spectroscopy at Los Alamos National Laboratory
[DE84-001705] 07 p0972 N84-16297

DOWNING, D. J.
Why didn't Box-Jenkins win (again)?
[DE83-014043] 03 p0427 N84-12802

DOWNING, D. R.
Pilot controls and SPIRF flight
03 p0312 N84-12038

DOWNING, E. J., JR.
Economic production rate study
[AD-P002793] 13 p2057 N84-23340

DOWNING, R. G.
Results of the 1983 NASA/JPL balloon flight solar cell calibration program
[NASA-CR-173465] 12 p1779 N84-21609
Radiation effects in silicon and gallium arsenide solar cells using isotropic and normally incident radiation
[NASA-CR-174007] 24 p3916 N84-34793

DOWNS, A. L.
Report on functional design specification for the automated alphanumeric data entry system
[AD-A142518] 20 p3266 N84-30725

DOWNS, D.
Closed vessel combustion studies of stick propellant
13 p1948 N84-22665

DOWNS, G. S.
SETI investigations at Jodrell Bank, England: September through November 1983 10 p1476 N84-19639
Mapping and geological analysis of Mercury radar data 13 p2089 N84-23532
Mercury: Topographic and geologic data from Earth-based radar observations
13 p2089 N84-23533

DOWNS, H. R.
Software development and maintenance guidelines, volume 1
[DE83-902192] 02 p0274 N84-11793

DOWNTON, M. W.
Evaluation of performance measures for an urban photochemical model
[PB84-115062] 09 p1343 N84-18771

DOWSON, D.
Non-steady state effects in EHL
15 p2341 N84-25051

DOYLE, B.
Human engineering guidelines for management information systems. Change 1
[AD-A137808] 11 p1703 N84-21104

DOYLE, B. L.
Steady-state hydrogen transport in solids exposed to fusion-reactor plasmas. Part 3: Applications of theory
[DE84-001646] 04 p0611 N84-14033

DOYLE, J. C.
Performance and robustness aspects of digital control systems 01 p0015 N84-10098
Neurocognitive pattern analysis
[AD-A131302] 01 p0114 N84-10740
Advanced topics in robustness for multivariable control
[AD-A134606] 07 p1058 N84-16850
Single trial brain electrical patterns of an auditory and visual perceptuomotor task
[AD-A135545] 09 p1362 N84-18899
Characterization of uncertainty for large space structure control problems 15 p2268 N84-24619

DOYLE, J. G.
IUE observations of BY Draconis
24 p3975 N84-35176
Rotational modulation of spots and plages on RSCVn stars 24 p3978 N84-35196

DOYLE, W. S.
The plane stress/strain analysis of non-homogeneous continua by the boundary integral equation method
[TR-821S] 04 p0587 N84-13880

DOYON, J.
Development of molten carbonate fuel cell technology
[DE84-004856] 15 p2364 N84-25183

DOZIER, J.
LANDSAT-D investigations in snow hydrology
[E84-10004] 02 p0235 N84-11545
LANDSAT-D investigations in snow hydrology
[E84-10074] 07 p1021 N84-16621
LANDSAT-D investigations in snow hydrology
[E84-10094] 13 p2003 N84-22997
LANDSAT-D investigations in snow hydrology
[E84-10156] 19 p3039 N84-29277
Snow reflectance from LANDSAT-4 Thematic Mapper
20 p3216 N84-30426

DOZIER, J. B.
Research reports: 1983 NASA/ASEE Summer Faculty Fellowship Program
[NASA-CR-170942] 06 p0927 N84-16022

DOZOIS, C. G.
A high frequency radio technique for measuring plasma drifts in the ionosphere
[AD-A140509] 16 p2526 N84-26219

DOZONO, S.
An evaluation of ARIADNE (alternative ranking interactive aid based on dominance structure information elicitation)
[AD-P002891] 13 p1980 N84-22852

DOZORETS, L. A.
Statistics of field of multistage phased antenna array
17 p2632 N84-26834

DRAGAN, M.
Technology of the radiation hardened MOS devices
[AD-A138995] 13 p2047 N84-23283

DRAGANOV, V. M.
Realization of high-frequency filters according to theory of guided spherical waves 21 p3378 N84-31438

DRAGERT, H.
Reports on cartography and geodesy. Series 2: Translations, number 41. Report on high precision gravimetry, volume 2
[ISSN-0469-4244] 19 p3043 N84-29306

DRAGHICI, I.
Technology of the radiation hardened MOS devices
[AD-A138995] 13 p2047 N84-23283

DRAGON, R. A.
Evaluation of optical data collection instrumentation in the desert environment
[AD-P003847] 24 p3939 N84-34934

DRAGOO, A. L.
Microstructure and electrical properties of ceria-based ceramic electrolytes 11 p1741 N84-21361

DRAGT, A. J.
Lie algebraic methods for particle tracking calculations
[DE84-004310] 11 p1716 N84-21196

DRAGUZYA, M. D.
Functional state and work capacity of man when breathing oxygen and hypoxic mixtures under positive pressure 20 p3254 N84-30654

DRAKATOS, P.
Researching the man-machine system as a function of soil-environment system 10 p1511 N84-19894
A stochastic model for the Man-Machine-Soil-Environment System (MMSES) and the influence of vibrations 10 p1512 N84-19895

DRAKE, F.
SETI science working group report
[NASA-TP-2244] 12 p1869 N84-22178

DRAKE, G.
Crew and life support: ECLSS
09 p1268 N84-18280

DRAKE, J.
Geophysical plasmas and atmospheric modeling
[AD-A142573] 20 p3240 N84-30572

DRAKE, J. B.
ARIES: A computer program for the solution of first kind integral equations with noisy data
[DE84-003908] 07 p1056 N84-16838
Finite element simulation of viscous incompressible flows
[DE84-004355] 10 p1494 N84-19769
Ekman boundary conditions for numerical models of centrifuge flows
[DE84-013576] 22 p3595 N84-32765

DRAKE, J. F.
Nonlinear mode coupling theory of the lower-hybrid-drift instability
[AD-A135538] 08 p1187 N84-17734

DRAKE, M. C.
Applications of laser scattering probes to turbulent diffusion flames
[AD-A138207] 12 p1792 N84-21685

DRAKE, R. H.
Economics of a conceptual 75 MW hot dry rock geothermal electric power station
[DE83-015926] 20 p3236 N84-30539

DRANENKO, A. S.
Injection currents in GaAs triple crystals
18 p2825 N84-27937

DRANSFELD, P.
Detection of NH-2O-radicals by far-infrared laser magnetic resonance spectroscopy
[MPIS-6/1984] 20 p3151 N84-30010

DRAPER, J. M.
Computer science and technology: Guide on data models in the selection and use of database management systems
[PB84-162189] 14 p2206 N84-24243

DRAPER, J. V.
Human factors in remote control engineering development activities
[DE84-003201] 12 p1868 N84-22176

DRAPER, N. R.
Use of simultaneous autoregressive models in balanced incomplete block and lattice square designs
[AD-A141661] 19 p3086 N84-29590

DRAPER, S.
Classifying bugs is a tricky business
[AD-A133264] 06 p0895 N84-15813

User centered system design
[AD-A136131] 09 p1364 N84-18907

DRAPER, S. W.
Software engineering for user interfaces
[AD-A138937] 13 p2029 N84-23155

DRAPIER, J. M.
Using recycled superalloys in precision casting
23 p3705 N84-33486

DRAVINSKI, M.
Strong motion effects due to seismic waves in dipping layers
[PB84-127919] 08 p1189 N84-17747

DRAWBAUGH, R. B.
Rationale for a Threshold Limit Value (TLV)R for JP-4/Jet B wide cut aviation turbine fuel
[AD-A134814] 08 p1201 N84-17827

DRECHSEL, H.
UV and optical spectroscopy of classical novae during outburst 24 p3979 N84-35202
UV and optical observations of the novalike object V3885 SGR 24 p3979 N84-35207
UV and optical spectroscopy of W Serpentis objects 24 p3980 N84-35212

DREES, J. M.
Noise reduction techniques: Criteria and validation 19 p3096 N84-29664

DREFAHL, K.
Deep drawing of continuously cast and rolled zinc sheet
[BMFT-FB-T-83-214] 10 p1472 N84-19614

DREHER, J. W.
Radio astronomy 22 p3683 N84-33349

DREIER, T.
Investigation of laser induced radical reactions using time resolved infrared and coherent anti-Stokes Raman scattering (CARS) spectroscopy
[MPIS-17/1983] 20 p3151 N84-30008

DREIKE, P. L.
Ion stopping in heated targets
[DE83-017800] 03 p0447 N84-12941
Applied-B ion diode experiments on PBFA 1
[DE83-017792] 03 p0447 N84-12942
Diagnosing the ion beam on the applied-B diode
[DE83-017822] 03 p0447 N84-12943

DREISBACH, R. L.
Specification for a Program for an Interative Aeroelastic Solution (PIAS)
[NASA-CR-172200] 04 p0479 N84-13153

DRELL, S. D.
Excitation of simple atoms by slow magnetic monopoles
[DE84-006209] 12 p1903 N84-22393

DRENTH, J.
Application of protein crystals for structure and function analysis 23 p3804 N84-34119

DRESCHER, A.
Photoelastic analysis of direct shear tests for granular materials
[BLL-M-28752-(5828.4)] 09 p1328 N84-18671

DRESHFIELD, R. L.
Replacing critical and strategic refractory metal elements in nickel-base superalloys
[NASA-TM-83528] 04 p0498 N84-13264
P/M superalloys: A troubled adolescent?
[NASA-TM-83623] 17 p2622 N84-26785
Understanding the roles of the strategic element cobalt in nickel base superalloys 23 p3703 N84-33471

DRESNER, L.
Transient heat transfer in superfluid helium, part 2
[DE83-015767] 03 p0453 N84-12984
Superconductor stability, 1983: A review
[DE83-015506] 03 p0454 N84-12990
Superconducting stability, 1983: A review
[DE83-017262] 03 p0455 N84-12995

DRESS, D. A.
High Reynolds number tests of the cast 10-2/DOA 2 airfoil in the Langley 0.3-meter transonic cryogenic tunnel, phase 2
[NASA-TM-86273] 23 p3689 N84-33382

DRESS, W. B.
Torsional ultrasonic technique for reactor vessel liquid level measurement
[DE84-003357] 08 p1228 N84-18024
High resolution ultrasonic densitometer
[DE84-003387] 13 p1994 N84-22939
Biasing and fast degaussing circuit for magnetic materials
[DE84-011281] 20 p3285 N84-30857

DRESSE, B.
Transformation procedures for interactive digitizing apparatus 07 p1018 N84-16606

DRESSELHAUS, G.
Magnetic properties of CoCl2-Intercalated graphite
[AD-A133860] 05 p0648 N84-14260
The anomalous magnetoresistance of graphite at high magnetic fields
[AD-A133861] 05 p0753 N84-14938

DRESSELHAUS, M. S.
Structure and phase transitions in bromine and potassium-mercury intercalated graphite
[AD-A133863] 05 p0645 N84-14244

DRESSELHAUS, P. D.
The anomalous magnetoresistance of graphite at high magnetic fields
[AD-A133861] 05 p0753 N84-14938

DRESSER, H. S.
Shuttle booster separation aerodynamics 01 p0019 N84-10123

DRESSLER, G. A.
Tracking and Data Relay Satellite launch recovery mission 20 p3137 N84-29918

DRESSLER, M.
Low rate transmission of video signals using adaptive delta modulation
[AD-A133145] 06 p0823 N84-15363

DREVINSKY, P. J.
Influence of oxygen on defect production in electron-irradiated, boron-doped silicon 19 p3045 N84-29320

DREW, J. E.
UV observations on the variable quasar PG 1351+64 24 p3972 N84-35153
Constraints on stellar winds of catsclysmic variables derived from ultraviolet resonance lines 24 p3979 N84-35205

DREW, R. T.
The design and operation of systems for inhalation exposure of animals
[DE83-015388] 01 p0112 N84-10727

DREWERY, J. O.
The present status of Clean PAL systems
[BBC-RD-1984/6] 20 p3172 N84-30142
Video noise reduction
[BBC-RD-1984/7] 22 p3571 N84-32615

DREWES, L. R.
Cerebral metabolism and blood brain transport: Toxicity of organophosphorous compounds
[AD-A142705] 22 p3630 N84-33005

DREWS, M. J.
Fire and smoke retardants 04 p0510 N84-13343

DREYER, U.
Investigation of two-component two-phase channel flow with heat supply for application in inside cooled turbine blades 02 p0221 N84-11447

DREYFUSS, P.
Effect of amine surface treatment on the adhesion of a polyurethane to the surface
[AD-A135591] 09 p1288 N84-18406
Durability of adhesive bonds between glass or metal substrates and a polybutadiene-polyurethane
[AD-A137489] 10 p1466 N84-19578
The role of chemical bonding in adhesion
[AD-A140937] 18 p2818 N84-27891
Durability of adhesive bonds with ionic bonds at the interface 20 p3144 N84-29960

DREZNER, S. M.
Information systems: The challenge of the future for the Air Force Communications Command
[AD-A144277] 24 p3969 N84-35129

DRIEDONKS, A. G.
The specific humidity profile of the convective atmospheric boundary layer
[KNMI-WR-84-2] 15 p2368 N84-25207
The specific humidity profile of the convective atmospheric boundary layer
[KNMI-WR-84-2] 15 p2368 N84-25207

DRIEDONKS, A. G. M.
On mixed-layer models for the atmospheric boundary layer, appendix G 18 p2884 N84-28302

DRIGGANS, R. L.
Test and evaluation of the Philips Model PE 1701 and Lester Model 9865 electric vehicle battery chargers
[DE84-901243] 21 p3394 N84-31541

DRIGGERS, H. H.
Study of aerodynamic technology for single-cruise engine V/STOL fighter/attack aircraft
[NASA-CR-166271] 19 p2956 N84-28737

DRILLING, J.
Conceptual design of a noncontacting power transfer device for the ASPS Vernier system
[NASA-CR-172238] 22 p3581 N84-32677

DRINAN, J. D.
A distributed signal processing architecture
[AD-A130227] 01 p0119 N84-10771

DRING, R. P.
Compressor rotor aerodynamics 07 p0958 N84-16210
Energy efficient engine high-pressure turbine supersonic cascade technology report
[NASA-CR-165567] 18 p2796 N84-27739

DRISCOLL, J. F.
Shock tube study of the ignition and combustion of aluminum
[AD-A134035] 05 p0661 N84-14345

DRISCOLL, M. M.
Narrow deviation voltage controlled crystal oscillator
[AD-D011033] 19 p3018 N84-29133

DRISCOLL, S. B.
Roll-trusion (RT*) of composite structures
[AD-A140838] 17 p2618 N84-26757

DRISKILL, D. W.
An application of the Navstar global positioning system in navigation track reconstruction for Naval exercises
[AD-A136807] 10 p1425 N84-19321

DROBNEY, G.
SPEC-DOC: A user's guide to spectrometer software
[DE83-013295] 02 p0274 N84-11790

DROBYSHEVSKAYA, T. A.
Dynamics of changes in metabolic and endocrine processes in helicopter crews during commercial flights 15 p2375 N84-25254

DROCEA, C.
Experiences in teaching Ada (trademark)
[AD-P003419] 20 p3270 N84-30751

DROEGE, R. E.
The effects of dehydration on peripheral cooling
[AD-A130838] 06 p0887 N84-15767

DROEMER, D. W.
Observation of magnetic fields in laser-produced plasma using the Zeeman effect
[DE84-002742] 06 p0921 N84-15989

DROLET, L. L.
Differentiated ratings of perceived exertion and selected physiological responses during prolonged upper and lower body exercise
[AD-A134086] 06 p0887 N84-15769
Heat exchange during upper and lower body exercise
[AD-A136015] 10 p1548 N84-20146

DRONIOU, J.
Non-invasive methods of cardiovascular exploration in aerospace medicine
[AGARD-AG-277(E)] 11 p1699 N84-21082
Ventricular pre-excitation syndromes 11 p1699 N84-21084
Echocardiography in the expert examination of flying personnel 11 p1700 N84-21090

DRORY, M. D.
Micro and macro mechanics of fracture in ceramics
[AD-A137290] 10 p1465 N84-19572

DROSEN, J. W.
Failure times and optimal stopping rules of generalized shock models 16 p2552 N84-26372

DROSTE, C. S.
Lessons learned in the development of the F-16 flight control system 06 p0777 N84-15092

DROTNING, W. D.
Design, performance and operation of the laser interferometric dilatometer
[DE83-014359] 02 p0226 N84-11483
Automated thermal conductivity probe and applications to powders
[DE84-000451] 04 p0508 N84-13328
A data acquisition and analysis system for fiber creep testing
[DE84-012654] 21 p3422 N84-31709
Computer system for fiber creep testing
[DE84-014453] 22 p3612 N84-32885

DROUILLARD, T. F.
A comprehensive guide to the literature on acoustic emission from composites
[DE84-011064] 21 p3358 N84-31296

DROULEZ, J.
Microgravity as an additional tool for research in human physiology with emphasis on sensorimotor systems
[ESA-BR-15] 09 p1362 N84-18900

DROZD, A. L. S.
Intrasystem Analysis Program (IAP) code summaries
[AD-A135673] 09 p1301 N84-18507

DRUCE, R.
Subnanosecond-rise-time, low-impedance pulse generator
[DE83-013793] 01 p0074 N84-10485
High-current railgap studies
[DE83-013859] 02 p0290 N84-11898

DRUCE, R. L.
Pulsed power bibliography. Volume 2: Annotated bibliography
[AD-A131753] 03 p0379 N84-12468
Pulsed power bibliography. Volume 1: Indices
[AD-A131752] 03 p0379 N84-12469

DRUCE, S. G.
The effects of specimen size, specimen geometry and data analysis procedures on ductile crack growth resistance curves
[AERE-R-10906] 01 p0098 N84-10638

Effect of austenitisation heat treatment on the fracture resistance and temper embrittlement of MnMoNi steels
[AERE-R-11043] 18 p2816 N84-27882
DRUCKER, E. H.
Memory organization-based methods of instruction: A comparison with performance-oriented training
[AD-A137640] 11 p1701 N84-21098
DRUCKER, J.
Air as an adjustable insulator for C-V and G-V analysis of semiconductor surfaces
[AD-A141437] 19 p3013 N84-29099
DRUEG, H. W.
SIMTBED: A graphical test bed for analyzing and reporting the results of a statistical simulation experiment
[AD-A136812] 10 p1563 N84-20243
DRUFFEL, L. E.
Operational software technology working group report IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A137335] 10 p1504 N84-19832
DRUMM, A. C.
Airborne Intelligent Display (AID) phase 1 software development
[ATC-123] 04 p0484 N84-13181
DRUMMOND, A. M.
Theoretical and measured airflow about the Twin Otter wing
[AD-A141974] 20 p3126 N84-29855
DRUMMOND, P. D.
Optical bistability with two-level atoms
14 p2231 N84-24383
Critical quantum fluctuations in optical bistability
14 p2232 N84-24391
Theory of multistability in Josephson junction devices
14 p2235 N84-24410
DRUMMOND, R. C.
Advanced F/A-18 avionics 06 p0770 N84-15048
DRUSCHITZ, A. P.
Metal-induced embrittlement of high purity 4140 steel by indium or indium-tin eutectic alloy
02 p0192 N84-11250
DRUYAN, L. M.
Case studies of NOAA 6/TIROS N data impact on numerical weather forecasts 17 p2717 N84-27294
DRUYAN, V. M.
A method of solving ductility theory problems
[BLL-M-35125-(5828.4)] 01 p0093 N84-10607
Method for solving variation problems of plasticity theory
[BLL-M-35555-(5828.4)] 17 p2676 N84-27047
DRUZSBA, A. R.
Advanced high-power generator for airborne applications
[AD-A133290] 06 p0830 N84-15398
DRYER, F. L.
A comprehensive chemical kinetic reaction mechanism for the oxidation of n-butane
[DE84-005739] 22 p3549 N84-32467
DRYSDALE, W. H.
A theory of rate-dependent plasticity
[AD-A142102] 19 p3036 N84-29260
DSILVA, A. P.
Atmospheric-pressure argon afterglows as a detector for gas chromatography
[DE83-017695] 03 p0351 N84-12282
DU, Q.
Cognitive information processing
22 p3684 N84-33360
DUB, J. F.
Epitaxial crystallization in the Te-HgTe-CdTe system
[CSIR-TRANS-1745] 22 p3661 N84-33206
DUBA, A. G.
Mechanisms of electrical conductivity in olivine
[DE83-017313] 22 p3588 N84-32723
DUBALSKIY, G. N.
Simulation of cerebrocranial trauma for evaluation and development of gear to protect pilots against impacts
02 p0259 N84-11695
DUBARD, J. L.
Mathematical model of electrostatic precipitation (revision 3). Volume 1: Modeling and programming
[PB84-212679] 22 p3549 N84-32469
Mathematical model of electrostatic precipitation (revision 3). Volume 2: User's manual
[PB84-212687] 22 p3549 N84-32470
DUBAYAH, R.
Applying artificial intelligence to large networks
21 p3428 N84-31743
DUBBLEDAY, P. S.
Measurement of hydroacoustic particle motion by hot-film anemometry
[AD-A139015] 12 p1901 N84-22383
DUBE, M. P.
Statistical correlation of structural mode shapes from test measurements and NASTRAN analytical values
[NASA-TM-86044] 16 p2501 N84-26054
DUBE, R. P.
Managing geometric information with a data base management system 12 p1874 N84-22211
DUBE, W.
Training capabilities: The facility part of the equation
[AD-P003457] 21 p3510 N84-32234
DUBEAU, R. W.
A gas turbine combustor test facility for fuel composition investigations
[AD-A132479] 04 p0487 N84-13201
DUBEY, R. N.
Vibration of overhead transmissions lines 4
10 p1506 N84-19854
DUBININ, E. M.
Effects of small-scale plasma disturbance on the IKB-1300 spacecraft potential
[PR-839] 08 p1109 N84-17208
Observations of He+ ions in the solar wind
[KGI-PREPRINT-064] 15 p2428 N84-25585
DUBININA, I. A.
Physiological responsiveness of operators in relation to work and homeostatic disorders
18 p2894 N84-28365
DUBINSKY, V.
Joint Soviet-American project for detection of gravitational waves 19 p2972 N84-28840
DUBOC, R. M., JR.
Low cost microminiature refrigerators for large unit volume applications 06 p0822 N84-15356
DUBOIN, M. L.
User's manual of a program to compute the distribution of photoelectrons
[CRPE-NT-110] 13 p2012 N84-23054
DUBOIS, D.
RADC (Rome Air Development Center) DDP (Distributed Data Processing) topology evaluation
[AD-A134701] 08 p1212 N84-17909
DUBOIS, G.
The drag of magnetically suspended wind-tunnel models with nose-cones of various shapes
[NASA-TM-77325] 07 p0946 N84-16137
DUBOIS, J.
Survey of techniques employed in the analysis of rocket motor solid propellants
[ED-80-292] 12 p1782 N84-21630
DUBOIS, M.
Preliminary study on elastoplasticity in large transformations
[CETIM-11-E-360] 21 p3424 N84-31719
DUBOIS, M. E., JR.
Office automation: A look beyond word processing
[AD-A132764] 18 p2944 N84-28670
DUBOIS, P. J.
NLTSS overview
[DE84-008536] 19 p3080 N84-29546
Syntax and semantics of a LINCS control monologue
[DE84-011399] 20 p3277 N84-30805
DUBOK, V. A.
Features of determination of low concentrations of oxygen in steel by the electrochemical method
[BLL-M-35212-(5828.4)] 01 p0041 N84-10262
DUBOSE, D. A.
Correlation between plasma fibronectin level and mortality following experimental rate heat stress
[AD-A143383] 22 p3628 N84-32991
DUBOVIK, O. M.
Experimental study of behavior of cylindrical shells with lumped masses under dynamic external pressure
17 p2650 N84-26947
DUBOVIK, V. Y.
Special features of information presentation in teaching systems
[BLL-M-35604-(5828.4)] 21 p3516 N84-32273
DUBOWICZ, P. W.
Tactical high frequency array antennas
[AD-D011095] 22 p3587 N84-32717
DUC, B.
Outline and evaluation of a spaceborne sodium heat pipe furnace with three compartments
10 p1440 N84-19407
DUCAS, T.
Atomic resonance and scattering
22 p3681 N84-33339
DUCHARME, R. G.
Airport noise and land use compatibility at downstate Illinois airports
[PB84-177377] 17 p2611 N84-26716
DUCHENE, S. S.
Microprocessor Database Management Systems (DBMS): Evaluation and comparison of three commercial DBMS
[AD-A139560] 14 p2203 N84-24222
DUCHENNE, B.
Y03: Prequalification of surface treatment. Measurement of laser reflecting power
[ESA-TT-791] 03 p0382 N84-12490
DUCHOSSOIS, G.
Contributions of remote sensing satellite tracking techniques to marine environment monitoring and marine applications 03 p0396 N84-12585
The first European Remote Sensing Satellite (ERS-1): Overall description, potential applications and users
08 p1175 N84-17654
DUCKHORN, S. L.
Characterization of reactants, reaction mechanisms and reaction products leading to extreme acid rain and acid aerosol conditions in southern California
[PB83-252825] 04 p0561 N84-13697
DUCKWORTH, G. L.
Digital signal processing 22 p3684 N84-33357
DUCOT, E. R.
Proceedings of the 6th MIT/ONR (Massachusetts Institute of Technology/Office of Naval Research) Workshop on C3 (Command, Control, and Communications) Systems
[AD-A138614] 13 p1977 N84-22835
DUCROS-GAMBART, D.
Automatic analysis of bitemporal LANDSAT data: An application to the study of the evolution of vegetation-covered areas in a tropical region
23 p3768 N84-33887
DUDEWICZ, E. J.
The heteroscedastic method: Theory and applications
[AD-A129525] 01 p0137 N84-10895
DUDGEON, D. E.
Multi-dimensional signal processing research program
[AD-A135732] 09 p1302 N84-18511
Multi-dimensional signal processing research program
[AD-A141273] 18 p2917 N84-28497
DUDIN, G. I.
Method of calculating strong viscous interaction at delta wing 17 p2644 N84-26918
DUDKA, K. K.
An approach for estimating the impact of carbon-reinforced plastic 24 p3868 N84-34515
DUDLEY, M. R.
Effect of boattail geometry on the acoustics of parallel baffles in ducts
[NASA-TM-85981] 19 p3099 N84-29686
DUDLEY, W. A.
Eddy current thickness gauge for reel-to-reel tape processes
[DE84-004050] 08 p1162 N84-17567
Ultrasonic inspection of MC2893 strength member assembly weld
[DE84-007084] 12 p1824 N84-21692
DUDMAN, A. E.
Aeroelastic design of civil transports at the project stage 02 p0170 N84-11120
DUDNEY, N. J.
Raman measurements of the mobile cation vibrations in Na, K, Ag and Li (ALPHA)'-alumina
[DE83-015697] 06 p0924 N84-16005
Hydration of (BETA)-prime-prime-alumina
[DE83-015696] 07 p1083 N84-17041
DUECHS, D.
Crank-Nicholson difference schemes for solving coupled systems of nonlinear diffusion equations
[IPP-6/223] 03 p0424 N84-12776
DUEMENIL, L.
Parameterization of the atmospheric boundary layer at ECMWF, appendix O 18 p2885 N84-28310
DUEROLF, H.
Development of fine-structured components for gas discharge displays
[BMFT-FB-T-84-031] 19 p3000 N84-29015
DUES, J. N.
Long term evaluation of the effects of shale oil produced JP-4 on aircraft construction materials
[AD-A131665] 03 p0331 N84-12161
DUEX, T. W.
Geology, geochemistry, and geochronology of volcanic rocks between Cuauhtemoc and La Junta, central Chihahua, Mexico 13 p2014 N84-23066
DUFF, J. M.
Real visual image compensation for head motion parallax effects as a function of object distance
[AD-A132915] 05 p0720 N84-14717
DUFF, L. W.
The 64-m antenna automatic subreflector focusing controller 22 p3573 N84-32628
DUFF, P.
CCRS proposal for evaluating LANDSAT-4 MSS and TM data
[E84-10096] 10 p1522 N84-19966
Revised radiometric calibration technique for LANDSAT-4 Thematic Mapper data by the Canada Centre for Remote Sensing 10 p1522 N84-19967

Revised radiometric calibration technique for LANDSAT-4 Thematic Mapper data
10 p1522 N84-19968
Revised radiometric calibration technique for LANDSAT-4 Thematic Mapper data by the Canada Centre for Remote Sensing 20 p3208 N84-30378

DUFF, R. E.
Study of excited state energy transfer processes
[AD-A131777] 03 p0433 N84-12837

DUFFIE, J. A.
A correction factor to f-chart predictions of active solar fraction in active-passive heating systems
16 p2513 N84-26127

DUFFY, C. J.
Microprobe analyses of rare-earth-element fractionation in meteoritic minerals
[DE83-017326] 04 p0621 N84-14097

DUFFY, D.
SASS wind forecast impact studies using the GLAS and NEPRF systems: Preliminary conclusions
12 p1851 N84-22055

DUFFY, J.
Dynamic crack growth criteria in structural metals
[AD-P003107] 16 p2467 N84-25812

DUFFY, J. J.
Measured performance of 50 passive solar residences in the United States 16 p2514 N84-26138

DUFFY, J. M.
Praxis language environment: Distribution-package description
[DE83-017546] 03 p0421 N84-12750
Detailed introduction and reference manual for: The network-shared-memory distributed database system
[DE83-017547] 04 p0585 N84-13865

DUFFY, J. W.
A flight investigation of simulated data link communications during single-pilot IFR flight
03 p0313 N84-12046

DUFFY, M. O.
Mathematical models of nonlinear galvanic polarization
[AD-A132403] 04 p0589 N84-13895

DUFFY, R. E.
Investigation of the effects of pressure gradient, temperature and wall temperature ratio on the stagnation point heat transfer for circular cylinders and gas turbine vanes
[NASA-CR-174667] 14 p2109 N84-23649

DUFFY, T.
Optimized baffle and aperture placement in neutral beamlines
[DE84-003746] 09 p1388 N84-19062

DUFOUR, L. B.
Neutron embrittlement of the reactor vessel in Borssele as determined from Charpy specimens
[S/T-REPT-VOL-1-NO-4] 20 p3204 N84-30352

DUFOUR, R. J.
Imagery and spectroscopy of supernova remnants and H-2 regions
[NASA-CR-171799] 19 p3121 N84-29841

DUFOURMONT, H.
Interpretability of wetland on SEASAT-A imagery in the polderland of Flanders: A structural approach
03 p0397 N84-12597

DUFRANE, K. F.
Measurements of elastohydrodynamic film thickness, wear and tempering behavior of high pressure oxygen turbopump bearings
[NASA-CR-171008] 13 p1997 N84-22960
Review of LOX Bearing and Seal Materials Tester (BSMT) radial load system
[NASA-CR-171162] 23 p3756 N84-33810

DUFTSCHMID, K. E.
Radiation protection problems caused by nonionizing electromagnetic radiation in Austria
[OEFZS-4268] 18 p2900 N84-28400
The Austrian primary standard for ionizing radiation dosimetry results of international intercomparisons
[OEFZS-4269] 18 p2900 N84-28401

DUGAN, D. C.
Identification and verification of frequency-domain models for XV-15 tilt-rotor aircraft dynamics
[NASA-TM-86009] 24 p3856 N84-34445

DUGAN, J.
Satellite data relay and platform locating in oceanography. Report of the In Situ Ocean Science Working Group
[NASA-TM-85443] 12 p1860 N84-22116

DUGAN, J. P.
Instrumentation requirements for small scale towed temperature measurements
[AD-A139697] 15 p2336 N84-25026

DUGGAN, T. O.
The measurement of surface texture and its correlation with function 06 p0814 N84-15299

DUGGIN, M. J.
Thematic mapper radiomtric variability on ostensibly uniform agricultural scenes
[E84-10035] 06 p0884 N84-15626
Demonstration of angular anisotropy in the output of Thematic Mapper
[E84-10095] 10 p1522 N84-19965
The effect of point-spread function interaction with radiance from heterogeneous scenes on multitemporal signature analysis 20 p3211 N84-30400

DUGUNDJI, J.
Fracture, longevity (fatigue), dynamics, and aeroelasticity of composite structures
[AD-A137047] 10 p1452 N84-19486

DUJARRIC, C.
Producing a cryogenic gust in an Eiffel type atmospheric wind tunnel with short gust 14 p2095 N84-23569

DUJNIC, P.
Selections on computer technology in CSSR
18 p2918 N84-28500

DUKE, A. M.
Study of effects of fuel properties in turbine-powered business aircraft
[NASA-CR-174627] 16 p2473 N84-25854

DUKE, G. L.
Investigation of sheath phenomena in electronegative glow discharges
[AD-A138100] 12 p1898 N84-22359

DUKE, J. C.
Fatigue damage-strength relationships in composite laminates. Volume 1
[AD-A133485] 06 p0799 N84-15206

DUKE, P. A.
A practical approach to the design of a new avionic system 06 p0772 N84-15058

DUKE, P. J.
Growth and differentiation of mammalian embryonic tissues exposed to hypergravity in vivo and in vitro
09 p1357 N84-18869

DUKOWICZ, J. K.
An improved accuracy general remapping algorithm
[DE84-004320] 20 p3282 N84-30837

DULIKRAVICH, G. S.
Artificial mass concept and transonic viscous flow equation
[AD-P002946] 14 p2198 N84-24186

DULL, T. C.
Integration of flight test data into a real-time simulation
09 p1259 N84-18216

DULLEA, R. K.
High-frequency acoustic backscatter from the sea surface
[AD-A143536] 22 p3652 N84-33152

DUM, C. T.
Electrostatic waves and anomalous transport in the solar wind 03 p0470 N84-13095

DUMANIS-MODAN, A.
Evaluation of the crack growth gage concept as an individual aircraft tracking device, volume 2
[AD-A136933] 10 p1428 N84-19341

DUMANISMODAN, A.
Evaluation of the crack gage as an advanced individual aircraft tracking concept 03 p0391 N84-12551

DUMANSKI, J.
Simulation of the reaction of optical systems in the manufacturing process
[BMFT-FB-T-84-128] 23 p3728 N84-33622

DUMAS, K. A.
Proceedings of the Flat-Plate Solar Array Project Research Forum on the High-Speed Growth and Characterization of Crystals for Solar Cells
[NASA-CR-173746] 18 p2935 N84-28614

DUMAS, N. S.
Voice integrated presentation system
[AD-D011076] 21 p3387 N84-31495

DUMAS, R. L.
Software Acquisition Resource Expenditure (SARE) data collection methodology
[AD-A137084] 10 p1564 N84-20247

DUMIN, D. J.
Ballistic transport in submicron silicon mosfets
[AD-A142036] 19 p3111 N84-29766

DUMLER, I.
Microstructure and microanalysis in relation to the grain boundary conductivity effect in doped ceria
11 p1741 N84-21358

DUMONT, P. J.
The analysis of solar models: Neutrinos and oscillations
[NASA-CR-173628] 17 p2780 N84-27652

DUMONTEL, M.
Study of ERS-1 dynamic interaction. Volume 1: Theoretical notes
[ER-RP-A1-002-VOL-1] 16 p2456 N84-25747

DUNAYEV, V. V.
Permeability of sodium sulfacyl through membrane structures differing in degree of organization with exposure to low-frequency magnetic field
07 p1043 N84-16763

DUNAYEVA, Y. V.
Turbulent boundary layer at plate with suction at various angles 17 p2648 N84-26938

DUNBAR, D.
Computer analysis of effects of altering jet fuel properties on refinery costs and yields
[NASA-CR-174642] 18 p2820 N84-27908

DUNBAR, M.
MIZEX: A program for mesoscale air-ice-ocean interaction experiments in Arctic marginal ice zones. 2: A science plan for a summer marginal ice zone experiment in the Fram Strait/Greenland sea: 1984
[AD-A134872] 08 p1187 N84-17737

DUNBAR, M. K.
Altering the volumetric expansion ratio of a Lysholm helical screw expander
[DE84-013695] 22 p3564 N84-32573

DUNBAR, R. S.
The planet crossing asteroid survey: Progress in the analysis of populations and terrestrial-planet cratering rates 13 p2075 N84-23449

DUNCAN, C. E.
Effects of extended use of AN/PVS-5 night vision goggles on helicopter pilots' performance
[AD-A138126] 12 p1868 N84-22173

DUNCAN, C. S.
Large-area sheet task advanced dendritic web growth development
[NASA-CR-173958] 23 p3787 N84-34019

DUNCAN, J. C.
An optical technique for assessing the long-term accuracy of lateral extensometers
[NPL-DMA(A)-78] 19 p3026 N84-29190

DUNCAN, L. D.
An evaluation of the system 2000 data base management system for use in major item system mapping
[DE84-013130] 21 p3519 N84-32296

DUNCAN, L. F.
The space transportation system reaction control system and orbital maneuvering subsystem
20 p3135 N84-29908

DUNCAN, L. M.
The HF-enhanced plasma line
05 p0635 N84-14180
Review of radio-frequency, nonlinear effects on the ionosphere
[DE84-003832] 08 p1188 N84-17739
Soliton collapse during ionospheric heating
[DE84-009994] 20 p3241 N84-30576

DUNCAN, T. A.
A wind tunnel investigation to determine dominant forebody strake design characteristics for an F-15 equipped with conformal fuel tanks
[AD-A136912] 10 p1421 N84-19292

DUNCAN, T. J.
Identification of bottlenecks and capacity constraints in F-14, F-15, F-16, and F/A-18 aircraft production
[AD-A134629] 08 p1095 N84-17121

DUNCOMBE, R. L.
Minor planet observations and a dynamical reference system 19 p3120 N84-29828

DUNDERVILL, R. F.
Strategic computing and survivability research
[AD-A141717] 19 p3081 N84-29548

DUNDORE, D. M.
Transverse horizontal coherence and low-frequency array gain limits in the deep ocean
[AD-A131916] 03 p0430 N84-12821

DUNEC, J. L.
Development and perturbation analysis of model stochastic equations for global circulation
06 p0883 N84-15743

DUNG, N. L.
On geometrical accuracy in precise metal forming
15 p2308 N84-24845

DUNGUNDJI, J.
Flutter and forced response of mistuned rotors using standing wave analysis
[NASA-CR-173555] 15 p2262 N84-24586

DUNHAM, R. E., JR.
An investigation of the existence of a surface water layer on aircraft radomes during simulated flight in heavy precipitation
[NASA-TM-85813] 19 p3003 N84-29035

DUNIGAN, J. J.
Improved techniques for data acquisition and analysis on X-ray diffraction equipment
[Y-2282] 23 p3750 N84-33774

DUNKER, R. J.
Flow measurements in the stator row of a single-stage transonic axial-flow compressor with controlled diffusion stator blades
07 p0958 N84-16209
DUNKERTON, T. J.
The transient gravity wave critical layer
[AD-A141095] 19 p3053 N84-29377
DUNKLE, S. B.
Workshop on Magnetic Information Technology (MINT)
[PB84-125210] 09 p1319 N84-18619
DUNLAP, H. L.
Basic problems in InP technology
[AD-A143456] 22 p3663 N84-33222
DUNLAP, J. L.
Experimental results on finite-beta limits and transport in the ISX-B Tokamak
[DE84-000258] 04 p0606 N84-14001
DUNLAP, R.
Coupling between velocity oscillations and solid propellant combustion
13 p1944 N84-22643
DUNLEVY-WILSON, B. J.
Maintenance communications for the 1990's
[AD-A133978] 05 p0666 N84-14383
DUNLOP, R. K.
Firebolt derivative/ramjet engine feasibility investigation (core engine program): Program summary
20 p3144 N84-29962
DUNN, B.
Particle scattering studies on foreign ions in superionic conductors
[AD-A137231] 10 p1588 N84-20406
Transport behavior of multivalent beta aluminas
11 p1743 N84-21370
Transport behavior of multivalent beta aluminas
[AD-A142968] 21 p3370 N84-31382
Nd-3+ Beta prime prime alumina platelet laser
[AD-A142797] 21 p3409 N84-31621
DUNN, B. D.
The corrosion properties of Spacelab structural alloy aluminum 2219-T851
[ESA-STR-212] 23 p3720 N84-33585
DUNN, C. D. R.
Regulation of hematopoiesis in the suspended rat as a model for space flight
09 p1355 N84-18856
DUNN, G. L.
Advanced aircraft electrical system control technology demonstrator. Phase 1: Requirements analysis & preliminary design. Phase 2: Detailed design
[AD-A136758] 10 p1428 N84-19337
DUNN, J. H.
Performance criteria guideline for three explosion protection methods of electrical equipment rated up to 15,000 volts AC
[NASA-TM-85528] 17 p2640 N84-26887
DUNN, J. R.
Exploration and drilling for geothermal heat in the Capital District, New York
[PB84-153162] 14 p2173 N84-24016
DUNN, K. P.
On mean Kullback-Leibler's information maximum likelihood principle and uncertain nonlinear systems
[AD-A137222] 10 p1569 N84-20279
Atmospheric refraction error and its compensation for passive optical sensors
[AD-A144377] 24 p3963 N84-35098
DUNN, P. F.
Magnetohydrodynamic power generation, electromagnetic pumps, heat pipes, and thermionic convertors
[DE84-009195] 15 p2411 N84-25475
DUNN, R. B.
The Sacramento Peak fast microphotometer
18 p2841 N84-28040
DUNN, S. A.
Sonic levitation apparatus
[NASA-CASE-MFS-25828-1] 18 p2928 N84-28568
Development of the sonic pump levitation
[NASA-CR-161963] 22 p3592 N84-32749
DUNN, T. J.
Pre-stressed thermal protection systems
[NASA-CASE-MSC-20254-1] 13 p1938 N84-22601
DUNNAVAN, G. M.
An evaluation of 700 mb aircraft reconnaissance data for selected Northwest Pacific tropical cyclones
[AD-A137362] 10 p1540 N84-20089
DUNNING, E. G.
Development of an advanced composite aileron for the L-1011 transport aircraft
[NASA-CR-3517] 18 p2810 N84-27836
DUNNING, G. J.
Phase conjugate optical resonator
[AD-A136071] 09 p1390 N84-19077
Phase conjugate optics
[AD-A141960] 20 p3299 N84-30951
DUNNING, J. S.
Sulfidation- and oxidation-resistant ferritic stainless steel containing aluminum
[PB84-189521] 20 p3165 N84-30101
Low-chromium heat-resisting ferritic alloys strengthened by the Chi Phase
[PB84-199041] 22 p3557 N84-32524
DUNSTAN, I.
Marine fouling at HMAS Stirling, western Australia
[MRL-R-914] 11 p1692 N84-21038
DUPLAY, C.
Rotating arc cutoff with a Fluarc switch or a Rollarc contactor in SF6
[CAHIERS-TECHNIQUES-123]
15 p2330 N84-24993
DUPLESSIS, J.
Surface segration and diffusion investigations by means of AES
06 p0816 N84-15319
DUPOIRIEUX, F.
Prediction of turbulent reactive flow
15 p2293 N84-24762
Unsteady combustion of composite fuel droplets
[ONERA-NT-1983-3] 16 p2462 N84-25781
DUPONT, D.
Evaluation of nickel-hydrogen battery for space application
[NASA-TM-77355] 10 p1528 N84-20012
DUPOUY, C.
Two different aspects of phytoplankton bloom seen by satellite (CZCS) in the western English Channel
03 p0399 N84-12604
DUPRE, G.
A shock tube study of chlorine azide decomposition
13 p1958 N84-22728
The onset of detonation behind incident shock waves in chlorine azide-argon mixtures
13 p1990 N84-22921
DUPRE, R. R.
Evolution of structure in the PLACES barium clouds
[DE84-010996] 20 p3242 N84-30583
DUPRE, T. J.
A cost prediction model for electronic systems flight test costs
[AD-A135598] 09 p1255 N84-18195
DUPREE, A. K.
Observation of winds in cool stars
03 p0468 N84-13084
Combined ultraviolet studies of astronomical sources
[NASA-CR-175234] 08 p1242 N84-18121
Theoretical studies of X-ray emission from supernova remnants and other non-equilibrium astrophysical plasmas
[NASA-CR-175394] 10 p1597 N84-20468
DUPREE, J. E.
Multiple access adaptive antennas
13 p1976 N84-22823
Enhancement of spread-spectrum systems through adaptive antenna techniques
13 p1976 N84-22824
DUPREE, T. H.
Plasma dynamics
22 p3683 N84-33354
DUPREEZ, P. J. J.
Productivity improvement in a jobbing shop
09 p1293 N84-18449
DUPRELE, A. K.
Ultraviolet and optical observations of metal deficient red giants and chromospheric models
24 p3974 N84-35166
DUPUIS, L. R.
Urban and local source effects on precipitation chemistry
[DE84-011848] 21 p3436 N84-31803
DUPUY, C. G.
Five times compression of mode-locked argon ion laser pulses
[AD-A139635] 15 p2339 N84-25040
DUPUY, J. D.
The SPOT distribution system
03 p0400 N84-12615
DUQUETTE, D. J.
Fatigue crack growth and low cycle fatigue of two nickel base superalloys
[NASA-CR-174534] 01 p0042 N84-10267
Pit initiation resistance of ferritic stainless steels in chloride environments from 800 to 2600C
[DE84-000355] 06 p0807 N84-15258
DURAND, A.
Influence of choice of steel on forging
[CETIM-1.3K.32.1] 21 p3416 N84-31663
DURAND, J. P.
Multipath pyrotechnic relay: Conception with numerical simulations and experimental validation
[SNIAS-832-422-101] 16 p2474 N84-25855
DURBAN, D. C.
Analysis of observed and modeled mixed layers: Nocal (northern California) region
[AD-A136773] 10 p1543 N84-20109
DURBAN, D. M.
Strategies for converting to a DBMS environment
22 p3671 N84-33267
DURBER, G. L. R.
Trace elements in superalloys and the implications for recycling
23 p3705 N84-33484
DURDEN, S. L.
Synthetic aperture radar images of ocean waves, theories of imaging physics and experimental tests
17 p2714 N84-27275
DURFEE, R. C.
Estimation of small area populatons using remote sensing and other approaches
[DE84-003404] 08 p1178 N84-17678
DURHAM, D. L.
Documentation of wave-height and tidal analysis programs for automated data acquisition and control systems
[AD-A142679] 20 p3251 N84-30634
DURHAM, J. L.
Acidification of rain by the oxidation of dissolved SO2 and the absorption of HNO3
[PB84-168368] 15 p2367 N84-25200
DURHAM, R. L.
Situational interaction: A peer counseling approach to AWOL (unauthorized absences from duty) reduction
[AD-P003243] 18 p2903 N84-28410
DURIEUX, J. L.
Terminal control for command to line of sight guided missile
21 p3350 N84-31252
DURISEN, R. H.
HEAO 1-A1 observations of AM Herculis and related objects
[NASA-CR-170907] 01 p0164 N84-11077
Secular stability of rotating stars
[DE84-014011] 23 p3839 N84-34353
DURK, F. S.
Hewlett-Packard 7221T plotter user's manual
[AD-A135881] 09 p1368 N84-18929
DURNFORD, S. J.
Stressful mission profiles, part 1
16 p2536 N84-26281
Stressful mission profiles, part 2: Workload and fatigue
16 p2536 N84-26282
DURSO, F. T.
Cognitive organization as a function of flying experience
[AD-A141767] 19 p3068 N84-29459
DURST, F.
Eulerian and Lagrangian predictions of particulate two phase flows
[KU-SFB-80/T/222] 05 p0682 N84-14481
Theoretical studies of solid particles in laminar and turbulent flows
[KU-SFB-80/T/223] 14 p2146 N84-23863
DUSHENKO, F.
Slip forms for the construction of PRessed CAst-in-Situ concrete linings for shield tunneling
[AD-A139411] 14 p2134 N84-23792
DUSHIN, M. I.
Influence of natural exposure in space on physical-mechanical properties of carbon reinforced plastic
24 p3872 N84-34536
DUSSAULT, H. B.
The evolution and practical applications of failure modes and effects analyses
[AD-A131358] 02 p0272 N84-11778
DUTCHER, F. R.
NASA space biology accomplishments, 1983-84
[NASA-TM-86654] 20 p3256 N84-30664
DUTRA, L. S. V.
Development of an automatic system for the treatment of magnetotelluric data
[INPE-3165-TDL/171] 23 p3797 N84-34075
DUTRA, L. V.
Evaluation of entropy and JM-distance criterions as features selection methods using spectral and spatial features derived from LANDSAT images
[E84-10141] 16 p2507 N84-26089
Evaluation of SIR-A (Shuttle Imaging Radar) images from the Tres Marias region (Minas Gerais State, Brazil) using derived spatial features and registration with MSS-LANDSAT images
[E84-10148] 16 p2508 N84-26096
DUTRA, S. L. G.
Vertical mapping of quasistatic and large scale ionospheric electric fields in low latitudes
[INPE-2838-PRE/385] 02 p0247 N84-11618
Study on the applicability of the international ionospheric model IRI 79 for obtaining electron density profiles
[INPE-2817-PRE/372] 02 p0247 N84-11619
Comparison between density profiles obtained at Cachoeira Paulista, Brazil, and deduced from IRI-79 model
[INPE-3136-PRE/527] 21 p3443 N84-31843

DUTT, D. S.
Fuel Systems for compact fast space reactors
[DE84-006545] 14 p2223 N84-24343
DUTTA, J. M.
High precision material study at near millimeter wavelengths
[AD-A133575] 06 p0918 N84-15966
DUTTA, S.
Laser assisted deposition 12 p1840 N84-21998
Laser-assisted solar cell metallization processing
[NASA-CR-173764] 19 p3050 N84-29354
Laser-assisted solar cell metallization processing
[NASA-CR-173763] 19 p3050 N84-29355
Laser-assisted solar cell metallization processing
[NASA-CR-173875] 21 p3409 N84-31619
DUTTA, V. B.
Fatigue resistance and microstructure of experimental dual phase Fe/2Si/0.1C steel
[DE84-004314] 11 p1635 N84-20692
Mechanisms of microstructurally-influenced fatigue crack growth in dual-phase steels
[DE84-008491] 19 p2995 N84-28979
DUTTON, E. J.
Climatological coefficients for rain attenuation at millimeter wavelengths
[PB84-104272] 08 p1148 N84-17475
The evaluation of prediction models for microwave attenuation by rainfall
[PB84-182104] 20 p3176 N84-30170
Microwave terrestrial link rain attenuation prediction parameter analysis
[PB84-207984] 22 p3578 N84-32666
DUTTON, J. A.
The use of satellite data in understanding and predicting convective and large-scale dynamical processes
24 p3925 N84-34842
DUTTON, L. M.
Flight test techniques employed in the Nimrod MR MK 2 weapon system performance trials
24 p3849 N84-34410
DUTTON, R. W.
A structured design methodology for VLSI systems
[AD-A135725] 09 p1308 N84-18554
Computer modeling of complete IC fabrication process
[AD-A138006] 12 p1879 N84-22247
DUVALL, D. S.
Phase change materials for use in passive and hybrid solar heating and cooling systems
16 p2518 N84-26164
DUVALL, G. E.
Electronic spectra of condensed phase under shock conditions
[AD-A137531] 11 p1652 N84-20785
DUVALL, J. A.
Achievement of reliability by thermal vacuum testing of spacecraft mechanisms 09 p1296 N84-18472
DUVALL, K. M.
Research on adaptive antenna techniques 5
[AD-A133676] 05 p0669 N84-14398
DUVAUT, G.
A new method of analysis of composite structures
[SNIAS-832-210-105] 16 p2461 N84-25773
DUXBURY, T. C.
Phobos: Close encounter imaging from the Viking Orbiters
[NASA-RP-1109] 21 p3525 N84-32330
DUYSEMALIYEV, U. K.
Constitution diagram of system vanadium - copper
[AD-A135516] 08 p1132 N84-17361
DVERNYAKOV, V. S.
Use of concentrated solar energy to form slip coatings
24 p3874 N84-34552
DVORACK, M. A.
High temperature X-ray decomposition studies of alpha phase nickel-silicon and beta phase copper-aluminum-nickel alloys 21 p3364 N84-31338
DVORAK, G. J.
Stiffness changes in unidirectional composites caused by crack systems
[CA-8311] 06 p0798 N84-15198
DVORAK, R.
On the two-body problem with variable masses
19 p3117 N84-29808
Numerical integration with Lie-series
19 p3118 N84-29814
DVORAK, V. F.
Tropical cyclone intensity analysis using satellite data
[NOAA-TR-NESDIS-11] 23 p3800 N84-34096
DVORETZKY, A.
On the Fatou inequality
[AD-A136383] 09 p1374 N84-18973
DVORKIS, P.
A study of the angular radiation of Smith-Purcell radiation
[AD-A130095] 01 p0141 N84-10925
DWEK, E.
Submillimeter wavelength survey of the galactic plane from l = -5 deg to l = +62 deg: Structure and energetics of the inner disk
[NASA-TM-86077] 20 p3319 N84-31069
DWIGHT, D. W.
Anodic oxide formation on Ti-6Al-4V in chromic acid for adhesive bonding
[AD-A140057] 15 p2298 N84-24790
Surface and bulk phase separations in block copolymers and their blends
[AD-A140020] 15 p2302 N84-24815
DWIGHT, K.
Homogeneity and magnetic susceptibility in some substituted cadmium spinels
[AD-A135297] 08 p1131 N84-17357
DWORK, C.
On the sequential nature of unification
[AD-A139939] 15 p2398 N84-25388
DWOYER, D. L.
EET theoretical design techniques
18 p2784 N84-27666
DWYER, J. F.
A balloon design for 9000 pounds at 90,000 feet: Recommendations based on heavy-load balloon history
[AD-A131987] 03 p0320 N84-12093
DWYER, L. C.
Geothermal potential along the Balcones/Ouachita trend, central Texas: Ongoing assessment and selected case studies
[DE84-010826] 20 p3241 N84-30578
DWYER, R.
Frequency domain non-linear signal processing apparatus and method for discriminationd against non-Gaussian interference
[AD-D011068] 19 p3017 N84-29126
DWYER, R. F.
Detection of randomly occuring signals using spectra and frequency domain kurtosis estimates
[AD-A141461] 19 p3084 N84-29573
DWYER, T.
A transmission line bridge for the diagnostics of plasma channels
[AD-A139286] 14 p2228 N84-24362
DYACHENKO, S. M.
Utilization of nonlinear properties of IMPATT-diodes in microwave devices (survey) 22 p3569 N84-32603
DYAKONOVA, N. G.
Producing thermomagnetic alloy by powder metallurgy
[BLL-M-35668-(5828.4)] 22 p3553 N84-32500
DYAKOV, V. P.
Josephson point contacts noise properties at microwave 22 p3569 N84-32602
DYATEL, V. P.
Small orifice laser cutting machine viewed
24 p3891 N84-34642
DYATLOV, A.
Successful Arctic testing of KA-32 helicopter
18 p2784 N84-27671
DYCHES, G. M.
Laboratory robotics at the Savannah River Laboratory
[DE84-001760] 06 p0894 N84-15810
DYE, R. E.
OMEGA documentation
[DE84-007014] 14 p2206 N84-24239
DYER, D.
Implementation of INTERLISP on the VAX
[AD-A141707] 21 p3465 N84-31967
DYER, I.
MIZEX: A program for mesoscale air-ice-ocean interaction experiments in Arctic marginal ice zones. 2: A science plan for a summer marginal ice zone experiment in the Fram Strait/Greenland sea: 1984
[AD-A134872] 08 p1187 N84-17737
DYER, P.
Cross sections relevant to gamma-ray astronomy: Alpha-particle-induced reactions
[DE83-015533] 03 p0461 N84-13038
DYER, R. M.
A probabilistic model for predicting the duration of levels of electromagnetic transmission in falling snow: Environmental research papers
[AD-A143318] 22 p3577 N84-32655
DYKSTRA, J. D.
Contribution of LANDSAT-4 thematic mapper data to geologic exploration
[E84-10021] 02 p0237 N84-11557
Evaluation of LANDSAT-D Thematic Mapper performance as applied to hydrocarbon exploration
[E84-10154] 19 p3038 N84-29275
Evaluation of LANDSAT-4 Thematic Mapper data as applied to geologic exploration: Summary of results
20 p3213 N84-30412
DYMEK, R. F.
Average sedimentary rock rare Earth element patterns and crustal evolution: Some observations and implications from the 3800 Ma ISUA supracrustal belt, West Greenland 11 p1678 N84-20953
DYMOND, L. H.
Develop a normative or descriptive model of the international/domestic civil aviation industry, volume 3
[AD-A131878] 03 p0314 N84-12051
Develop a normative or descriptive model of the international/domestic civil aviation industry, volume 2
[AD-A131877] 03 p0314 N84-12052
Develop a normative or descriptive model of the international/domestic civil aviation industry. Volume 1: Executive summary
[AD-A131876] 03 p0314 N84-12053
DYSON, B. F.
Creep damage mechanics and micromechanisms
[NPL-DMA(A)-77] 19 p3034 N84-29243
DYUDKIN, D. A.
The effect of technological parameters on the heterogeneity of continuously cast slab
[BLL-M-35095-(5828.4)] 01 p0042 N84-10271
DZEGANOVSKIY, V. P.
Reinforcing materials based on magnesium oxide
12 p1783 N84-21637
DZHAPARIDZE, K. O.
On iterative procedures of asymptotic inference
[MC-SW-94/83] 07 p1084 N84-16905
DZHAPIASHVILI, T. V.
A crossed scintillation supertelescope to measure the muon component of cosmic ray intensity
24 p3994 N84-35274
DZIADOS, J.
Recommendations for the conduct of physical training in cold weather
[AD-A142137] 19 p3066 N84-29449
DZIEDZIC, A.
Dispersion spectroscopy of optical electron transfer in solution
[AD-A139101] 14 p2121 N84-23713
Inner-sphere reorganization in optical electron transfer
[AD-A139722] 15 p2405 N84-25435
Gas-liquid correlation of ionization energies
[AD-A141255] 18 p2930 N84-28578
Solvation and dielectric dispersion in optical electron transfer
[AD-A144183] 24 p3880 N84-34580
DZIEMIANOWICZ, T. S.
Topics in graphite intercalation chemistry with applications to fiber reinforced composites
05 p0646 N84-14248
DZIEWONSKI, A. M.
Lower mantle heterogeneity, dynamic topography and the geoid
[NASA-CR-173621] 16 p2521 N84-26184
Seismic tomography of the Earth's interior
18 p2879 N84-28278
DZIUBAN, S. T.
Ellipsoid algorithm variants in nonlinear programming
[AD-A132599] 05 p0735 N84-14826
DZIURA, T. G.
Bistable operation of two semiconductor lasers in an external cavity: Rate-equation analysis
14 p2233 N84-24400
DZOBA, Y. V.
Modern methods of studying initial stage of fatigue fracture in metals 24 p3871 N84-34531
DZURISIN, D.
Drainage evolution in the debris avalanche deposits near Mount Saint Helens, Washington
13 p2083 N84-23496

E

EAGLE, J. N.
The approximate solution of a simple constrained search path moving target problem using moving horizon policies
[AD-A142164] 19 p3089 N84-29612
EAGLESON, P. S.
Extensions and applications of a second-order landsurface parameterization
[NASA-CR-175144] 07 p1023 N84-16636
EALLEAUME, P.
New results of the ACO storage ring free electron laser
[AD-A137785] 11 p1663 N84-20848
EARDLEY, B. R.
The design and development of a low emissions Transply combustor for the civil Spey engine
[PNR-90198] 13 p1934 N84-22582
The design and development of a low emissions transply combustor for the civil Spey engine
15 p2292 N84-24755

EARHART, L.
MIL-STD-1553: Testing and test equipment
[AD-P003545] 21 p3333 N84-31149
EARL, O. A.
Physiological data acquisition system and motion sickness prevention trainer
[AD-A138361] 12 p1865 N84-22153
EARL, R. A.
Synthesis of energetic prepolymers
[AD-A135770] 09 p1288 N84-18409
EARL, T. D.
Airplane take-off system
[AD-D011204] 24 p3856 N84-34449
EARNEST, C.
Determination of the planetary radiation budget from TIROS-N satellites
[PB84-100916] 08 p1189 N84-17748
EASON, H. O.
The EBT-S 28-GHz, 200-kW, CW, mixed-mode, quasi-optical plasma heating system
[DE84-014415] 23 p3829 N84-34267
EAST, D. J.
Some aspects of guidance loop design for SAM systems 21 p3350 N84-31251
EAST, J. R.
Development of innovative millimeter-wave broadband mixers
[AD-A136134] 09 p1310 N84-18562
EAST, R. A.
Hypersonic static and dynamic stability. Part 1: Equations of motion and flight dynamics 16 p2441 N84-25663
Hypersonic static and dynamic stability. Part 2: Inviscid prediction methods for unsteady hypersonic flow 16 p2442 N84-25664
Hypersonic static and dynamic stability. Part 3: Experimental techniques, experimental results and viscous effects 16 p2442 N84-25665
EASTEP, F. E.
Nonlinear oscillations of a fluttering panel in a transonic airstream
[AD-A133918] 05 p0627 N84-14124
Active suppression of aeroelastic instabilities for forward swept wings
[AD-A141739] 19 p2964 N84-28783
EASTERLING, R. G.
Lower confidence bounds on system reliability using component data: Maximum methodology
[DE84-012813] 21 p3415 N84-31658
EASTERLY, J. L.
County-level wind resource estimates for DOE Region 5
[DE84-000009] 04 p0568 N84-13744
EASTES, J. W.
Effects of weathering and lichen cover on the middle infrared spectra of rocks
[AD-A140228] 16 p2510 N84-26111
EASTMAN, C. M.
File searching problems in logic programming systems
[AD-A136522] 09 p1367 N84-18923
EASTMAN, C. W.
Atmosphere temperature profile recovery using partial interferometry
[AD-A144196] 24 p3919 N84-34810
EASTMAN, G. Y.
Power flattening techniques for radioisotopic thermoelectric generators
[AD-A142937] 21 p3391 N84-31520
EASTMAN, J. A.
Eddy-correlation measurements of the resistance to vertical transport of ozone
[DE83-015363] 02 p0244 N84-11600
EASTMAN, L. F.
Microwave, semiconductor research - materials, devices and circuits
[AD-A140052] 15 p2413 N84-25489
EASTMAN, N. S.
Report of findings and recommendations: Software Engineering Institute Study Panel
[AD-A138282] 12 p1882 N84-22267
EASTMAN, T. E.
High-altitude observations of an intense inverted-V event
[NASA-CR-174468] 01 p0104 N84-10678
Currents in the Earth's magnetotail
[NASA-CR-174467] 01 p0104 N84-10679
The plasma sheet boundary layer
[AD-A137399] 10 p1537 N84-20069
Generation of broadband electrostatic noise by ion beam instabilities in the magnetotail
[NASA-CR-173643] 17 p2728 N84-27362
EASTON, F. J.
Water resources data for Virginia, water year 1982
[PB84-118553] 09 p1340 N84-18751
EASTON, R. R.
SAGUARO: A finite-element computer program for partially saturated porous flow problems
[DE83-015603] 02 p0219 N84-11438
EATHER, R. H.
Optical ionospheric mapping
[AD-A140508] 16 p2526 N84-26218
EATHERLY, W. P.
Comparison of the characteristics of graphites irradiated at 600 and 9000 deg C
[DE83-015695] 08 p1123 N84-17297
EATOCK, R. A.
Communications biophysics 22 p3684 N84-33362
EATON, E. E.
Standard reference material containing 2.5 percent austenite (SRM 488)
[PB84-143296] 12 p1799 N84-21735
EATON, H. G.
GC and GC/MS (Gas Chromatography/Mass Spectrometry) analysis protocols
[AD-A141017] 18 p2811 N84-27843
EATON, J. K.
Experimental study of flow reattachment in a single-sided sudden expansion
[NASA-CR-3765] 09 p1312 N84-18571
EATON, L. R.
Lightning mapper sensor design study
[NASA-CR-170909] 04 p0566 N84-13732
EATON, M.
Review of properties of various types of calorimeters: High luminosity and high energy 06 p0911 N84-15917
EATON, R. R.
Numerical method for computing flow through partially saturated porous media
[DE83-007910] 01 p0081 N84-10529
EAVES, B. C.
Decomposition and scaling-inequality for line-sum-symmetric nonnegative matrices
[DE84-005639] 11 p1719 N84-21211
EBARA, K.
Improvement in quality of silicon-based amorphous films 21 p3477 N84-32041
EBBETT, R.
The ISPM unified radio and plasma wave experiment 09 p1262 N84-18237
EBEL, A.
Study of the system of middle atmosphere-ionosphere using remote-sensing data
[NASA-TM-77764] 23 p3797 N84-34074
EBEL, G. H.
Application guidelines for quality assurance procedures for hybrid microcircuits
[AD-A131395] 02 p0214 N84-11405
EBEL, J.
Geology hydrology and mineral resources of crystaline rock areas of Northeastern US
[DE84-013671] 21 p3432 N84-31774
Geology, hydrology, and mineral resources of crystalline rock areas of the northeastern United States
[DE84-013672] 22 p3614 N84-32901
EBERHARDT, D. S.
Study of the mapping of Navier-Stokes algorithms onto multiple-instruction/multiple-data-stream computers
[NASA-TM-85945] 19 p3080 N84-29544
EBERHARDT, R. N.
On-orbit cryogenic fluid transfer
[NASA-TM-83688] 16 p2457 N84-25753
EBERHARDT, W.
Fragmentation of small molecules following soft X-ray excitation
[DE83-011645] 02 p0289 N84-11896
Gas phase spectroscopy near the carbon K-edge
[DE84-002876] 07 p0971 N84-16294
EBERHART, M. E.
A molecular orbital model of intergranular embrittlement
[AD-A133056] 05 p0655 N84-14307
EBERLE, A.
Similarity transformations of the Euler equations and their numerical evaluation 16 p2540 N84-26306
EBERLE, K.
Utilization of light wave scales and opto-electronic transformers for measuring distortion and expansion
[ISD-309] 16 p2557 N84-26402
EBERT, J.
Development of a production method for hard dielectric coating systems
[BMFT-FB-T-84-116] 23 p3727 N84-33621
EBERT, L. J.
Factors which influence directional coarsening of Gamma prime during creep in nickel-base superalloy single crystals
[NASA-TM-83595] 08 p1131 N84-17353
Influence of composition on the microstructure and mechanical properties of a nickel-base superalloy single crystal
[NASA-TM-83563] 08 p1131 N84-17354
Cold working and annealing effects on the creep and rupture resistance of the oxide-dispersion-strengthened alloy MA754
[AD-A141438] 19 p2993 N84-28969
EBERTSOHN, M. R.
The programming and validation of the computerised version of the intermediate mental alertness test
[CSIR-PERS-303] 04 p0573 N84-13776
EBIHARA, B. T.
A multistage spent particle collector and a method for making same
[NASA-CASE-LEW-13914-1] 03 p0376 N84-12447
EBINGER, M. H.
Deuterium isotope effects in HMX thermochemical mechanisms: Decomposition, deflagration, and combustion 13 p1950 N84-22680
EBRAHIM, N. A.
Wavelength scaling of the two plasmon decay and stimulated Raman scattering instabilities
[DE84-008934] 18 p2847 N84-28077
ECCLES, E. S.
Full authority digital electronic engine controls and their integration with flight control systems in VSTOL aircraft 03 p0316 N84-12064
ECHIGO, H.
A study on accurate frequency-control of semiconductor lasers 22 p3563 N84-32566
ECHOLDS, E. F.
Permanent-magnet motors and generators for aircraft 01 p0010 N84-10062
ECHOLS, F. L.
A definition of STS accommodations for attached payloads
[NASA-CR-172223] 01 p0018 N84-10114
ECKARD, S. E.
Stirling engine applications study
[PB84-148055] 12 p1823 N84-21888
ECKE, R.
Onset of oscillations in symmetric convective states in a superfluid He-3-He-4 mixture
[DE84-009984] 22 p3666 N84-33244
ECKERLE, K. L.
Retroreflectance MAP (Measurement Assurance Program) service for coefficient of luminous intensity
[PB84-164938] 15 p2408 N84-25457
ECKERMAN, K. F.
Conversational eigenanalysis program for solving differential equations
[DE84-007560] 15 p2399 N84-25397
ECKERT, E. W.
Auxiliary power requirements: Their role in aircraft performance 03 p0334 N84-12169
ECKERT, J.
MoO3, ex MoS2, with further processing of the metal-bearing waste sulfuric acid generated in the process
[BMFT-FB-T-83-297] 15 p2366 N84-25196
ECKERT, R. P.
Analysis of technical possibilities for further sharing of the UHF television band by the land mobile services in the top ten land mobile markets
[PB84-123116] 08 p1148 N84-17470
Advanced technology UHF receiver study. Part 2: Effect on UHF television allotments
[PB84-173848] 16 p2483 N84-25921
ECKHARDT, C. J.
Optical and electrical properties of organic dye crystals
[DE84-014930] 22 p3666 N84-33240
ECKHARDT, K.
The hydraulic multiaxes vibrator: Its capabilities to simulate real mechanical environments and to verify aerospace structures 03 p0339 N84-12198
ECKLUND, S. D.
Making electron beams for SLC linac
[DE84-012072] 20 p3293 N84-30907
ECKLUND, W. L.
Solar control of winter mesospheric echo occurrence at Poker Flat, Alaska 17 p2686 N84-27102
Techniques for studying gravity waves and turbulence: Vertical wind speed power spectra from the troposphere and stratosphere obtained under light wind conditions 17 p2688 N84-27120
Capabilities and limitations of existing MST radars: Poker Flat 17 p2690 N84-27133
Design considerations for high-power VHF radar transceivers: Distributed versus single large transmitter 17 p2692 N84-27144
Design considerations for high-power VHF radar transceivers: The Poker Flat MST radar phase control system 17 p2692 N84-27148

Design considerations for high-power VHF radar transceivers: Phase matching long coaxial cables using a cable radar 17 p2693 N84-27149
Design considerations for high-power VHF . radar transceivers: T/R switch design 17 p2693 N84-27151
Review of specific antenna configurations: An estimate of cost and performance versus frequency for a simple (10 Lambda)-2 clear-air radar antenna array 17 p2694 N84-27158

ECKSTRON, D. J.
Studies of Electron-Beam-Induced decomposition of benzene
[AD-A137241] 10 p1454 N84-19496
Diagnostics development for E-beam excited air channels: Optical studies of the PHERMEX electron beam
[AD-A142095] 19 p3101 N84-29701

ECUNG, M.
The microcomputer in the acquisition environment
[AD-P002748] 13 p2049 N84-23295

EDBAUER, F.
Estimation of the parameters of an unmodulated carrier signal disturbed by complex-multiplicative and additive Gaussian noise
[ESA-TT-737] 16 p2482 N84-25914

EDDINGTON, D. K.
Communications biophysics 22 p3684 N84-33362

EDDINS, J. M.
Dimensionality, scoring, and related problems in adaptive testing
[AD-A139849] 15 p2383 N84-25290

EDDLEMAN, J.
Recent results of studies of acceleration of compact toroids
[DE84-008330] 19 p3109 N84-29752

EDDS, J.
Water resources data for Arkansas, water year 1982
[PB84-181296] 20 p3229 N84-30522

EDDY, D. K.
Computer applications to geotechnical engineering
[AD-A139271] 14 p2134 N84-23789

EDDY, J. A.
The solar constant, climate, and some tests of the storage hypothesis 17 p2780 N84-27649

EDE, S.
Automated document request and delivery systems in the United Kingdom 11 p1752 N84-21436

EDELBLUTE, M. C.
The Score technique: An analytical approach for assessing the results of manufacturing reviews
[AD-P002838] 13 p2064 N84-23383

EDELEN, R. B.
The future in terrain elevation data processing at the Defense Mapping Agency
[AD-A133483] 06 p0866 N84-15641

EDELMAN, R. B.
Detailed flow measurements in fuel-rich, particle-laden plumes 13 p1952 N84-22690
Computational hierarchy for the analysis of combustion phenomena in ramjet environments 21 p3354 N84-31277

EDELMANN, D.
Documentation of the GLAS fourth order general circulation model. Volume 2: Scalar code
[NASA-TM-86064-VOL-2] 14 p2179 N84-24049
Documentation of the GLAS fourth order general calculation model. Volume 3: Vectorized code for the Cyber 205
[NASA-TM-86064-VOL-3] 14 p2179 N84-24050

EDELMANN, J.
Documentation of the GLAS fourth order general circulation model. Volume 1: Model documentation
[NASA-TM-86064-VOL-1] 14 p2179 N84-24048

EDELSACK, E. A.
!JS Navy program in small cryocoolers 06 p0818 N84-15328

EDELSHTEYN, V. M.
Influence of exciton movement in magnetic field on luminescence. Indirect forbidden transitions in Ge 21 p3485 N84-32083

EDELSTEIN, F.
Transverse flat-plate heat pipe experiment (S1005) 15 p2274 N84-24653

EDEN, J. G.
Visible and near-infrared dissociation lasers
[AD-A143295] 22 p3601 N84-32807

EDEN, R. C.
Ion implanted GaAs IC. Process technology
[AD-A139348] 14 p2242 N84-24461

EDENBURN, M. W.
Concentrating photovoltaic technology
[DE84-012275] 22 p3619 N84-32931

EDENHOFER, P.
The IPSM coronal-sounding experiment 09 p1262 N84-18240

EDER, D. C.
Ionization equilibrium in isolated H 2 regions 04 p0619 N84-14066

EDGAR, B. C.
Whistler mode interactions and plasma sheet electrons
[AD-A134327] 07 p0993 N84-16436

EDGAR, D.
Geology hydrology and mineral resources of crystaline rock areas of Northeastern US
[DE84-013671] 21 p3432 N84-31774
Geology, hydrology, and mineral resources of crystalline rock areas of the Lake Superior region, US, part 1
[DE84-012682] 21 p3432 N84-31775
Geology, hydrology, and mineral resources of crystalline rock areas of the northeastern United States
[DE84-013672] 22 p3614 N84-32901
Crystalline rocks of the Northeastern United States
[DE84-013673] 22 p3624 N84-32962

EDGAR, D. E.
Role of geomorphic thresholds in determining alluvial channel morphology
[DE84-003627] 07 p1034 N84-16708
Empirical analysis of meandering and flow characteristics in laboratory and natural channels
[DE84-003461] 08 p1179 N84-17679

EDGAR, N. T.
The Marine Geology Program of the US Geological Survey
[USGS-CIRC-906] 11 p1677 N84-20944

EDGAR, R. J.
The time development of a blast wave with shock heated electrons
[NASA-CR-175364] 08 p1156 N84-17529

EDGAR, T. A.
Electrochemically deposited cadmium electrode for sealed Ni-Cd cells 23 p3737 N84-33683
Positive electrode fabrication for bi-polar Ni-H2 cells 23 p3739 N84-33700

EDIN, K.
Blast loadings of emergency exits for air-raid shelters type E
[FOA-C-20530-D4(D6)] 15 p2350 N84-25103

EDINGER, L.
Design and development of the multifunction flight control reference system 03 p0316 N84-12065

EDINGTON, R. J.
An investigation of experimental techniques for obtaining particulate behavior in metallized solid propellant combustion 13 p1947 N84-22659
An investigation of experimental techniques for obtaining particulate behavior in metallized solid propellant combustion
[AD-A141044] 18 p2808 N84-27826

EDLING, G.
Corrosion of TIG welded austenitic stainless steels
[BLL-WINDSCALE-TR-959-(9091.F)] 06 p0803 N84-15235

EDLUND, S. N.
Wake visualization
[BU-282] 15 p2255 N84-24542

EDMAN, K.
Investigation of the positioning system at Recal-Decca Survey Ltd. (RDS), London
[FOA-C-20476-D8(E2,E3)] 07 p0950 N84-16162

EDMONDS, J. A.
An analysis of possible future atmospheric retention of fossil fuel CO-2
[DOE/OR-21400/1] 23 p3793 N84-34054

EDMONDS, P. H.
Experimental results on finite-beta limits and transport in the ISX-B Tokamak
[DE84-000258] 04 p0606 N84-14001
Preionization and start-up in the ISX-B Tokamak using electron cyclotron heating at 28 GHz
[DE84-002261] 06 p0920 N84-15984

EDNERAL, N. V.
Calculation of structure factor for different cluster models of an amorphous alloy
[BLL-M-35293-(5828.4)] 06 p0803 N84-15234

EDRINGTON, T. S.
Acoustical communications by means of small explosive charges
[DE84-008903] 20 p3175 N84-30161

EDWARD, B. J.
Integration of monolithic microwave integrated circuits into phased array antenna systems
[AD-P003403] 19 p3014 N84-29107

EDWARDS, A. A.
Fatigue induced cracking in aluminum LN-2 shroud of 39 foot vacuum chamber 24 p3862 N84-34476

EDWARDS, B.
Middle Atmosphere Program. Handbook for MAP, volume 9
[NASA-CR-173439] 17 p2682 N84-27076

EDWARDS, C. L. W.
Supersonic loads due to shuttle-orbiter/external-tank attachment structures 01 p0019 N84-10122
Filler bar heating due to stepped tiles in the shuttle orbiter thermal protection system 01 p0024 N84-10155

EDWARDS, D.
DEM (digital grid-point elevation models) synthesis from three-dimensional cartographic data
[AD-A140211] 16 p2510 N84-26109

EDWARDS, D. E.
Analysis of transonic shock induced separated flow including normal pressure gradients
[AD-A137052] 10 p1422 N84-19298
Extension to an analysis of turbulent swirling compressible flow for application to axisymmetric small gas turbine ducts
[NASA-CR-165597] 11 p1753 N84-21445

EDWARDS, J. B.
Load control of a 300 hp tunnelling machine: Controller modification and testing for underground trials
[RR-230] 05 p0688 N84-14524
Analysis of the transfer function model of tray-type binary distillation columns with liquid hydraulic delay
[RR-234] 13 p1975 N84-22816

EDWARDS, J. W.
Experience with transonic unsteady aerodynamic calculations
[NASA-TM-86278] 22 p3530 N84-32353

EDWARDS, K. L.
Calcium elicited asymmetric auxin transport in gravity influenced root segments 09 p1352 N84-18835

EDWARDS, P. L.
Ultrasonic NDE of bonds in multilayered systems
[AD-A133619] 05 p0689 N84-14530

EDWARDS, R.
Algorithm to calculate proportional area transformation factors for digital geographic databases
[DE84-004456] 10 p1593 N84-20440

EDWARDS, R. A.
Integrated powerplant control systems and potential performance benefits 03 p0316 N84-12063

EDWARDS, R. G.
Estimation of small area populatons using remote sensing and other approaches
[DE84-003404] 08 p1178 N84-17678

EDWARDS, R. L.
Electronics/electrical manufacturing industry research needs
[PB84-122969] 11 p1648 N84-20774

EDWARDS, T. C.
A rotary vane open reversed Brayton cycle air conditioning and refrigeration system 04 p0543 N84-13574

EDWARDS, W.
Equal weights, flat maxima, and trivial decisions
[AD-A138506] 12 p1895 N84-22342

EDWEEB, M. E.
Schottky barrier and homojunction gallium arsenide solar cells 22 p3615 N84-32907

EELSALU, H.
A methodological look at astronomical statistics in the light of unbiased estimation 09 p1411 N84-19229

EFENDIYEV, T. S.
New type of dye laser with light-induced distributed feedback 21 p3482 N84-32067

EFFA, P. K.
Discharge kinetics of the nickel electrode
[AD-A134389] 07 p0970 N84-16283
Automatic digital battery cell capacitance measurements
[AD-A143143] 21 p3392 N84-31523

EFFERTZ, P. H.
Damage due to high temperature corrosion 14 p2126 N84-23746

EFFLAND, D.
User manual for driver program
[AD-A139028] 13 p2029 N84-23156

EFREMOV, D. B.
Analytical determination of resistance of aluminium alloys to deformation
[BLL-M-35476-(5828.4)] 12 p1796 N84-21714

EFRON, U.
The applications of silicon liquid crystal light valves to optical data processing: A review 12 p1905 N84-22409

EFTHIMION, P. C.
Design and operation of a collective millimeter-wave free-electron laser
[AD-A131628] 01 p0087 N84-10568

EGAMBERDIYEV, S. A.
Localization of X-ray bright spots relative to cells in solar chromospheric grid 19 p2974 N84-28854

EGAMI, T.
Annealing effects in ferromagnetic amorphous alloys
[AD-A136843] 10 p1460 N84-19534

EGAN, B. A.
EPA (Environmental Protection Agency) model development for stable plume impingement on elevated terrain obstacles
[PB84-130491] 10 p1533 N84-20038
EGAN, L. G., JR.
An integrated approach to a successful embedded computer resource project
[AD-P003574] 21 p3338 N84-31179
EGAN, P. O.
Intense positron beams: Linacs; preworkshop copy
[DE83-012941] 01 p0146 N84-10958
EGELAND, A.
Probe measurement of DC electric fields
08 p1116 N84-17255
EGENOLF, J.
Chemical utilization of the olefinic byproducts in pyrolysis naphtha by carbonylation and alkylation reaction
[BMFT-FB-T-84-064] 19 p2985 N84-28914
EGGEMEIER, F. T.
Conceptual framework for the development of workload metrics in sustained operations
11 p1696 N84-21063
EGGER, D.
Center of mass correction and its confidence for the Precise Orbital Positioning Satellite (Popsat)
24 p3906 N84-34738
Systems analysis and computer simulation studies of the laser ranging measurement process
24 p3906 N84-34739
EGGER, H.
Studies of collisional and nonlinear radiative processes for development of coherent UV and XUV sources
[AD-A131837] 03 p0379 N84-12467
Search for extended-lifetime optically excited laser media
[DE84-009795] 18 p2847 N84-28076
EGGER, T. J.
Assembly language graphics library (EGR1.LB) with Fortran interfacing
[PB83-239624] 03 p0422 N84-12757
EGGERER, H.
On the mechanism of the biological conversion of citric acid. 6: Citrate-synthase is an acetyl-CoA enolase
[NRC/CNR-TT-2074] 07 p0965 N84-16258
EGGERS, G.
Study report on a modular photovoltaic power supply system for space application
[BMFT-FB-W-84-010] 19 p2983 N84-28904
EGGERS, H.
Calculation methods for fiber reinforced components
10 p1452 N84-19484
EGGLESTON, D. S.
JANNAF Performance Standardization Subcommittee 16th Meeting minutes
[CPIA-PUBL-382] 07 p0981 N84-16355
The 14th JANNAF Plume Technology Meeting, volume 1
[AD-A139654] 13 p1941 N84-22619
The 20th JANNAF Combustion Meeting, volume 1
[AD-A138033] 13 p1943 N84-22632
EGLEM, M.
Auxiliary power units for wide-body aircraft
03 p0334 N84-12174
EGOLF, T. A.
Helicopter rotor wake geometry and its influence in forward flight. Volume 2: Wake geometry charts
[NASA-CR-3727] 03 p0320 N84-12091
Helicopter rotor wake geometry and its influence in forward flight. Volume 1: Generalized wake geometry and wake effect on rotor airloads and performance
[NASA-CR-3726] 08 p1099 N84-17149
EGOROV, A. I.
Obtaining iron-55 with high radiochemical purity
[CSIR-TRANS-1751] 22 p3553 N84-32494
EGOROV, V. F.
Methods of optimizing parameters of mechanisms performing repeated brief operations
[BLL-M-35352] 04 p0543 N84-13575
Optimization of parameters of electromechanical systems with mechanical balancing
[BLL-M-35442] 09 p1324 N84-18651
EGRET, D.
Preliminary results of a statistical classification of ultraviolet stellar spectra 09 p1409 N84-19205
Prediction of spectral classification from photometric data. Application to the MK spectral classification and the Geneva photometric system
09 p1410 N84-19221
IUE low dispersion spectra reference atlas. Part 1: Normal stars
[ESA-SP-1052-PT-1] 16 p2576 N84-26531
Statistical classification of IUE stellar spectra by the Variable Procrustean Bed (VPB) approach
24 p3975 N84-35178
IUE low dispersion spectra reference atlas
24 p3976 N84-35179
EGUSA, S.
Irradiation effects on the mechanical properties of composite organic insulators
[DE83-014703] 01 p0032 N84-10202
EHERNBERGER, L. J.
Air data position-error calibration using state reconstruction techniques
[NASA-TM-86029] 22 p3535 N84-32384
EHL, J. H.
Cryogenic insulation strength and bond tester
[NASA-CASE-MFS-25910-1] 02 p0199 N84-11297
EHLEN, J.
Evaluation of published criteria for identifying metamorphic rocks on air photos: Two case studies in the northeastern United States
[AD-A135451] 08 p1177 N84-17672
The classifications of metamorphic rocks and their applications to air photo interpretation procedures
[AD-A134965] 08 p1178 N84-17675
EHLERS, F. E.
A method for computing the leading-edge suction in a higher-order panel method
[NASA-CR-3730] 11 p1600 N84-20479
EHLERS, K. W.
Concept for a volume-type tandem three-chamber negative hydrogen ion source
[DE84-003336] 07 p1073 N84-16971
Design and fabrication of a surface conversion negative ion source and an 80 keV pre-accelerator
[DE84-006753] 13 p2045 N84-23269
Electron emitting filaments for electron discharge devices
[DE84-011098] 20 p3180 N84-30201
Method and source for producing a high concentration of positively charged molecular hydrogen or deuterium ions
[DE84-011030] 20 p3295 N84-30918
Negative ion formation due to hydrogen plasma surface interaction
[DE84-012259] 22 p3659 N84-33192
Three chamber negative ion source
[DE84-014505] 23 p3823 N84-34243
EHLERT, D.
Relationships between ellipsoid parameters
19 p3040 N84-29288
EHLKE, T. A.
Water resources data for West Virginia, water year 1982
[PB84-120161] 09 p1340 N84-18754
EHRENBORG, C.
Improvement of the memory allocation algorithm for evaluating query language expressions in the relational database handler CANTOR
[FOA-C-20508-D8] 08 p1213 N84-17916
EHRENFRIED, D. H.
Feasibility assessment of JOVIAL to Ada translation
[AD-A134857] 08 p1213 N84-17911
Feasibility assessment of JOVIAL to Ada (Trademark) translation
[AD-P003523] 21 p3330 N84-31127
EHRICH, R. W.
Human-computer interactions and decision behavior
[AD-A139759] 15 p2384 N84-25299
EHRLER, G.
Microelectronic bending and pressure sensors
[BMFT-FB-T-83-100] 02 p0225 N84-11476
EHRLICH, D. H.
Laser photodeposition and photoetching study
[AD-A134095] 05 p0752 N84-14934
EHRLICH, J.
A transmission line bridge for the diagnostics of plasma channels
[AD-A139286] 14 p2228 N84-24362
EHRLICH, K.
Software psychology: The need for an interdisciplinary program
[PB84-176718] 17 p2755 N84-27486
EHRLICH, R.
Fourier shape analysis: A multivariate pattern recognition approach
[AD-P003118] 16 p2532 N84-26259
EHSANI, M.
New 1-phase dual converter for superconducting inductive energy storage and transfer applications: The 1-phase inductor-converter bridge
[DE84-012118] 20 p3179 N84-30193
EHST, D. A.
Magnet design approach for pulsed Tokamak reactors
[DE84-005261] 11 p1738 N84-21341
EICHMANN, G.
Acquisition, image and data compression
[AD-A131923] 03 p0360 N84-12344
Optical acquisition, image and data compression
[AD-A143984] 23 p3816 N84-34197
EICHTEN, E.
Hadron-hadron collider group
[DE83-010704] 03 p0437 N84-12865
EICK, J. L.
An acoustical imaging system for the inspection of solid rocket motors
[AD-A139482] 14 p2156 N84-23918
EICKHOFF, H.
Liquid fuel atomization and mixing in a high velocity air stream 15 p2291 N84-24746
EIDENT, C. J.
The computerization of material safety data sheet information
[AD-A131992] 03 p0459 N84-13021
EILENBERGER, D. J.
Optical bistability based on self-focusing
14 p2237 N84-24424
EILTS, H. S.
Cascaded adaptive arrays 05 p0671 N84-14415
EIMERL, D.
Computer design and optimization of the active rotary flux compressor
[DE84-010089] 19 p3030 N84-29215
EINARSSON, B.
Interactive computer program VISION 4 (visual information system interactive online for FOA 4) for plotting and data analysis
[FOA-C-40182-A3,B2,C2] 15 p2390 N84-25342
EINAV, S.
On the relationship between transitional and fully turbulent shear flow
[AD-A133808] 05 p0680 N84-14469
Manipulation of the mixing process between streams of different velocity and temperature in the presence of pressure gradient
[AD-A143467] 22 p3593 N84-32757
EINHORN, H. J.
Ambiguity and uncertainty in probabilistic inference
[AD-A133418] 06 p0905 N84-15872
A theory of diagnostic inference: Judging causality
[AD-A133172] 07 p1049 N84-16796
A theory of diagnostic inference
[AD-A137032] 10 p1551 N84-20163
EINSTEIN, H.
Development of a circulating zinc-bromine battery, phase 2
[DE84-001886] 04 p0527 N84-13463
EINSTEIN, T. H.
Effect of frequency-averaging on estimation of clutter statistics used in setting CFAR detection thresholds
[AD-A131947] 03 p0360 N84-12343
EISCHEN, J. W.
Cost/risk analysis for disk retirement, volume 1
[AD-A141978] 20 p3131 N84-29881
EISCHENS, W. L.
Development and flight test evaluation of an analytical model of the air-to-air tracking task
[AD-A138058] 12 p1772 N84-21555
EISELE, F. I.
Kinetic studies of the reactions of CH3O2 with NO2 and OH with HNO3
[AD-A130922] 01 p0105 N84-10685
EISELSTEIN, L. E.
Microkinetics of stress-corrosion cracking in stem-turbine disc alloys
[DE83-902290] 01 p0048 N84-10307
Prediction of crack growth aqueous environments
[AD-A131485] 01 p0096 N84-10626
EISEMAN, P. R.
Intrinsic adaptive mesh techniques
[NASA-CR-175375] 08 p1217 N84-17941
Investigation of three dimensional mesh generation with precise controls
[AD-A142246] 19 p3089 N84-29614
EISEN, F. H.
Ion implanted GaAs IC. Process technology
[AD-A139348] 14 p2242 N84-24461
LSI/VLSI (Large Scale Integration/Very Large Scale Integration) ion implanted GaAs (Gallium Arsenide) IC processing
[AD-A139676] 15 p2328 N84-24979
LSI/VLSI (Large Scale Integration/Very Large Scale Integration) ion implanted GaAs (Gallium Arsenide) IC processing. Appendix A: Feasibility analysis of Gallium-Arsenide mask programmable functions and logic arrays for high performance communications systems
[AD-A139677] 15 p2328 N84-24980
LSI/VLSI (Large Scale Integration/Very Large Scale Integration) ion implanted GaAs (Gallium Arsenide) IC processing. Appendix B: Two-dimensional modeling of GaAs MESFET devices for integrated high-speed logic circuits
[AD-A139678] 15 p2328 N84-24981

EISENAECHER, K.
Waste water treatment with the aid of the addition of activated carbon into the aeration station and reactivation of the spent carbon
[BMFT-FB-T-83-186] 07 p1028 N84-16661
EISENBERG, A.
Physical properties and structure of ion-containing polymers
[AD-A139137] 14 p2129 N84-23766
EISENBERG, R.
Synthesis and characterization of binuclear Schiff base complexes of nickel, copper, and manganese
[AD-A135493] 08 p1132 N84-17360
EISENSTAT, S. C.
Squeezing the most out of an algorithm in Cray FORTRAN
[DE84-003871] 09 p1369 N84-18941
EISENTHAL, K. B.
Picosecond laser studies of excited state processes
[AD-A136137] 09 p1323 N84-18646
EISENTRAUT, D. K.
Crashworthy cyclic control stick
[AD-A135150] 08 p1103 N84-17176
EISLER, R.
Experimental study of noise transmission into a general aviation aircraft
[NASA-CR-172357] 20 p3290 N84-30888
EISNER, A.
A new technique for monitoring the water vapor in the atmosphere 17 p2716 N84-27293
EISS, N. S., JR.
The influence of surface roughness on the transfer and wear of polymers
[AD-A133527] 06 p0810 N84-15275
Siloxane modifiers for epoxy resins
[AD-A136782] 10 p1467 N84-19582
The influence of surface topography on polymer friction 14 p2153 N84-23899
A fundamental approach to the sticking of insect residues to aircraft wings
[NASA-CR-173721] 18 p2791 N84-27717
EITELBERG, G.
Numerical and optical experiments on the Weissenberg effect
[DFVLR-FB-84-04] 16 p2493 N84-25992
EITTREIM, S. L.
Planned marine geophysical geological surveys of the Wilkes Land and Ross Sea margins 14 p2160 N84-23939
EIZENBERG, M.
Formation of silicide contacts using codeposited refractory metals alloy films
[AD-A142879] 21 p3391 N84-31519
EJIMA, S.
High power neutral beam heating on Doublet 3
[DE84-012471] 21 p3501 N84-32186
EK, D.
Space reactors: What is a kilogram?
[DE84-012656] 22 p3655 N84-33169
EKCHIAN, J. A.
Computer simulation of the heavy-duty turbo-compounded diesel cycle for studies of engine efficiency and performance
[NASA-CR-174755] 22 p3676 N84-33306
EKDAHL, C. A.
IBEX: Annular beam propagation experiment
[DE84-000456] 04 p0599 N84-13954
Beam propagation experimental study
[AD-A133310] 06 p0915 N84-15946
High power microwave generator
[DE84-014230] 22 p3590 N84-32738
EKEROOT, L.
Development of a computer program for road detection in satellite images
[FOA-C-30316-E1] 08 p1214 N84-17917
EKLUND, T. I.
Effects of ventilation and panel properties on temperature rise from aircraft fires
[DOT/FAA/CT-TN83/63] 07 p0949 N84-16157
EKONOMOV, A. P.
Proposals for VIRA (Venus International Reference Atmosphere): Solar and thermal radiation
[PR-829] 08 p1244 N84-18135
EKSTEDT, E. E.
Clean catalytic combustor program
[NASA-CR-168323] 06 p0789 N84-15151
Broad specification fuels combustion technology program
[NASA-CR-168179] 06 p0812 N84-15283
Liner environment effects study 11 p1613 N84-20556
EL-AASSER, M. S.
Corrosion control through a better understanding of the metallic substrate/organic coating/interface
[AD-A139086] 13 p1961 N84-22739
EL-BAYOUMY, L. E.
Parameter studies of gear cooling using an automatic finites element mesh generator
[NASA-TM-83721] 18 p2849 N84-28087
An investigation of the transient thermal analysis of spur gears
[NASA-TM-83724] 18 p2849 N84-28088
EL-BAZ, F.
Morphologic studies of the Moon and planets
[NASA-CR-173886] 22 p3678 N84-33319
EL-DEBAILO, S. M.
Analytical investigation of meso-scale boundary layer forced by surface temperature variation in a stratified sheared atmosphere 04 p0562 N84-13702
EL-DESSOUKY, A.
Nonvolatile, electrically erasable programmable ROM
[BMFT-FB-T-84-008] 15 p2412 N84-25482
EL-HENAWY, I. M.
Multiple steady states of buoyancy induced flow in cold water and their stability 04 p0530 N84-13487
EL-JAOUHARI, N.
Fatou theorem for the proper functions of invariant potential operators by a group of Cartan displacements 22 p3635 N84-33037
EL-NEWEIHI, E.
Component relevancy in multistate systems
[AD-A137727] 11 p1713 N84-21169
EL-RAYES, M.
Dielectric measurements of soils in the 3 to 37 GHz band between -50C and 23C 23 p3768 N84-33883
EL-SAYED, A. A.
Geophysical investigations of a geothermal anomaly at Wadi Ghadir, eastern Egypt
[NASA-CR-173527] 14 p2175 N84-24030
EL-SAYED, M. A.
Mechanism switching and trapping of Triplet-Triplet energy transfer in an orientationally disordered molecular solid
[AD-A130660] 01 p0142 N84-10931
Time-resolved laser studies on the energy transfer and the configurational changes in bacteriohodopsin
[DE83-015708] 03 p0382 N84-12487
Rates and mechanisms of energy dissipation and the structure of molecular solids
[AD-A137714] 11 p1730 N84-21283
EL-SAYED, T. M.
Chain reaction mechanism for I2 dissociation in the O2 (1 delta)-I atom laser
[AD-A134370] 07 p1010 N84-16548
EL-SHERIF, A. A.
Geophysical investigations of a geothermal anomaly at Wadi Ghadir, eastern Egypt
[NASA-CR-173527] 14 p2175 N84-24030
EL-SOUDANI, M. M. S.
Weighted decoding, by lattice, of linear block codes
[ENST-E-83008] 07 p1064 N84-16903
EL-ZOHNY, H. A.
Splice and Malcev algebras 04 p0593 N84-13911
ELABD, H.
Multispectral linear array visible and shortwave infrared sensors 23 p3781 N84-33977
ELACHI, C.
Remote sensing with spaceborne synthetic aperture imaging radars: A review 06 p0867 N84-15648
Spaceborne Imaging Radar Symposium
[NASA-CR-173186] 07 p0987 N84-16390
Substance geology of the western desert in Egypt and Sudan revealed by Shuttle Imaging Radar (SIR-A) 07 p0987 N84-16392
Spaceborne radar research in the 1980's 07 p0990 N84-16417
ELAHY, M.
Magnetic properties of CoCl2-Intercalated graphite
[AD-A133860] 05 p0648 N84-14260
ELAIS, G.
Computation of noise radiating from a free jet perpendicular to its axis via laser anenometry measurements
[ONERA-NT-1983-6] 16 p2554 N84-26387
ELAM, F. M.
Space station control requirements and flywheel system weights for combined momentum and energy storage 03 p0344 N84-12236
ELAM, F. N.
Universal disk controller for microcomputers
[AD-A138333] 12 p1877 N84-22235
ELAM, W. T.
Structural studies at elevated pressure and reduced temperatures using synchrotron radiation: Application to Ce.8La.1Th.1
[DE84-001793] 06 p0924 N84-16007
ELAND, T.
Summaries of doctorate theses 20 p3263 N84-30705
Proprioception 20 p3264 N84-30714
ELATTARY, M. A. A.
Stresses and displacements in linear Maxwell non-isothermal circular plates on Winkler foundation and with radial and transverse variation in material properties 22 p3608 N84-32856
ELBAN, W. L.
Microstructural origins of hot spots in RDX explosive and several reference inert materials
[AD-A132056] 03 p0357 N84-12325
ELBANNA, S.
Current methods of evaluation of bone mineral content 23 p3807 N84-34142
ELBAUM, M.
Communication system studies for the submarine laser communications system
[AD-A135661] 09 p1301 N84-18504
ELBER, W.
Prediction of impact force and duration during low velocity impact on circular composite laminates
[NASA-TM-85703] 02 p0186 N84-11219
The effect of matrix properties and fiber properties on impact failure mechanics 15 p2310 N84-24863
Delamination growth analysis in quasi-isotropic laminates under loads simulating low-velocity impact
[NASA-TM-85819] 18 p2809 N84-27833
Fatigue and Fracture Branch: A compendium of recently completed and on-going research projects
[NASA-TM-85825] 20 p3201 N84-30331
Large deflections of circular isotropic membranes subjected to arbitrary axisymmetric loading
[NASA-TM-86271] 21 p3419 N84-31686
ELBERG, R.
Effect of space exposure of some epoxy matrix composites on their thermal expansion and mechanical properties (A0138-8) 15 p2272 N84-24840
ELBERT, R. F.
Seasonal precipitation forecasting with a 6 to 7 month lead time in the Pacific Northwest using an information theoretic model
[PB84-207018] 22 p3626 N84-32979
ELCHURI, V.
Forced vibration analysis of rotating cyclic structures in NASTRAN
[NASA-CR-165429] 02 p0231 N84-11514
Finite element forced vibration analysis of rotating cyclic structures
[NASA-CR-165430] 02 p0231 N84-11515
NASTRAN flutter analysis of advanced turbopropellers
[NASA-CR-167926] 05 p0631 N84-14148
NASTRAN documentation for flutter analysis of advanced turbopropellers
[NASA-CR-167927] 06 p0790 N84-15153
Bladed-shrouded-disc aeroelastic analyses: Computer program updates in NASTRAN level 17.7
[NASA-CR-165428] 06 p0790 N84-15154
Acoustical modes of arbitrary volumes using NASTRAN transient heat transfer RF9 06 p0859 N84-15597
An alternative method of analysis for base accelerated dynamic response in NASTRAN 06 p0859 N84-15598
NASTRAN forced vibration analysis of rotating cyclic structures
[NASA-CR-173821] 19 p3035 N84-29252
Four new capabilities in NASTRAN for dynamic and aeroelastic analyses of rotating cyclic structures 22 p3611 N84-32876
ELCI, A.
Investigations of vacuum ultraviolet and soft X-ray lasers
[AD-A140362] 16 p2497 N84-26024
ELDER, A. S.
Calculation of Legendre functions on the cut for integral order and complex degree by means of Gauss continued fractions
[AD-A139630] 17 p2758 N84-27506
ELDER, J. A.
Biological effects of radiofrequency radiation: Review draft, parts 1, 2 and 3
[PB83-262550] 05 p0714 N84-14680
ELDER, M. G.
Heat pipe technology development for high temperature space radiator applications
[DE84-012444] 21 p3402 N84-31581
ELDERS, W. A.
Salton Sea Geothermal Field, California, as a near-field natural analog of a radioactive waste repository in salt
[DE84-003851] 09 p1346 N84-18794
ELDRED, C. H.
Capture-ejector satellites
[NASA-TM-85686] 06 p0795 N84-15179
ELDREDGE, D.
Validation of digital systems in avionics and flight control applications handbook, volume 1
[AD-A133222] 06 p0788 N84-15150

ELDRIDGE, O. C.
A proposed RF-technology R/D plan for the United States
[DE84-000643] 04 p0522 N84-13434
Experimental results on finite-beta limits and transport in the ISX-B Tokamak
[DE84-000258] 04 p0606 N84-14001
Preionization and start-up in the ISX-B Tokamak using electron cyclotron heating at 28 GHz
[DE84-002261] 06 p0920 N84-15984

ELDRIDGE, P.
Yields photosynthetic efficiencies, and proximate chemical composition of dense cultures of marine microalgae, a subcontract report
[DE83-011992] 04 p0570 N84-13757

ELEICHE, A. M.
Inelastic deformation of metals and structures under dynamic and quasi-static cyclic loading
[AD-A136022] 09 p1332 N84-18700

ELETSKII, S. A.
The measurement of acoustic emission parameters during hydraulic loading of the Novovorenezh AES reactor vessel VVER-1000
[DRIC-T-6898] 15 p2403 N84-25421

ELFES, A.
A distributed control system for the CMU Rover
[AD-A133201] 06 p0893 N84-15802

ELFLEIN, D.
System for computer generated images and digital radar landmass simulation systems
[MBB-UA-688-82-OE] 02 p0275 N84-11797

ELFVING, A.
Investigation on Kpsi-guidance (quasi-objective carrying guidance)
[FOA-C-20482-E3] 07 p0962 N84-16237

ELGAMAL, A.
Statistical data processing, system modeling and reliability
[AD-A135206] 08 p1223 N84-17984

ELGERED, G.
Dual channel water vapor radiometer system
[PB84-119445] 08 p1189 N84-17746

ELGHADAMSI, F. E.
Site-dependent inelastic response spectra
06 p0862 N84-15620

ELGHOBASHI, S. E.
Effect of liquid droplets on turbulence structure in a round gaseous jet 11 p1609 N84-20533
Effect of solid particles on the turbulent flow of a round gaseous jet: A mathematical and experimental study
[DE84-005830] 11 p1653 N84-20794

ELGIN, D. R.
Lessons learned from the development and manufacture of ceramic reusable surface insulation materials for the space shuttle orbiters 01 p0025 N84-10158

ELGIN, J. B.
Application of the direct simulation Monte Carlo method to mass spectrometer flow
[AD-A142326] 19 p3094 N84-29647

ELHEFNY, M. R.
Variance reduction techniques with applications
[AD-A138074] 12 p1894 N84-22334

ELIA, J.
Embedded information transfer technology assessment
[AD-A142649] 21 p3391 N84-31518

ELIA, M.
Implementation of a stand alone FORTRAN version of the TOPSIM simulation package
[ESA-CR(P)-1825] 12 p1884 N84-22284

ELIAS, A.
Relative-datum Loran navigation
02 p0168 N84-11107

ELIAS, G.
Instrumentation and signal analysis
06 p0768 N84-15032

ELIAS, R. W.
Air pollution effects on terrestrial ecosystems
[PB84-126313] 08 p1184 N84-17712
Air pollution effects on aquatic ecosystems: Summary of a symposium
[PB84-165214] 20 p3239 N84-30562

ELIASON, E. M.
Intraband radiometric performance of the LANDSAT-4 Thematic Mapper 20 p3209 N84-30389

ELIASSON, E. T.
A summary of modeling studies of the Krafla Geothermal Field, Iceland
[DE84-000939] 05 p0697 N84-14578

ELIGEHAUSEN, R.
Local bond stress-slip relationships of deformed bars under generalized excitations: Experimental results and analytical model
[PB84-192848] 20 p3204 N84-30355

ELISCHER, E.
Wind power generation design considerations
[AD-A138841] 13 p2009 N84-23029

ELISCHER, P. P.
A thermal stability test for primary explosive stab sensitizers: Study of the thermal and hydrolytic stability of 1-picryl-5-nitrotetrazole
[MRL-R-918] 16 p2473 N84-25853

ELISHA, U.
A study of the angular radiation of Smith-Purcell radiation
[AD-A130095] 01 p0141 N84-10925

ELISHAKOFF, I.
A testing machine for statistical analysis of small imperfect shells, part 1
[VTH-LR-357-PT-1] 10 p1518 N84-19938

ELKINGTON, M. D.
Static analysis package
[REPT-71.3794] 12 p1884 N84-22283

ELKINS, R. H.
Advanced onboard storage concepts for natural gas-fueled automotive vehicles
[NASA-CR-174655] 23 p3790 N84-34036

ELLEAUME, P.
Transverse mode dynamics in a free electron laser
[AD-A137738] 11 p1662 N84-20846
Evolution of the transverse modes in a FEL (Free Electron Lasers), and application to the Orsay experiment
[AD-A137797] 11 p1663 N84-20849
Progress and problems in storage ring free electron lasers
[AD-A138683] 13 p1995 N84-22946
UV and VUV degradation of very high reflectivity mirrors for use in a storage ring free electron laser
[AD-A138740] 13 p2043 N84-23255

ELLEMAN, D. D.
Acoustic rotation control
[NASA-CASE-NPO-15689-1] 13 p2039 N84-23233

ELLETT, J.
The performance of 16000 wire mini-drift MWPC system 06 p0912 N84-15922

ELLINGER, M.
Research on the use of metal-organic compounds as photoconductors in electrophotography
[BMFT-FB-T-84-112] 23 p3825 N84-34262

ELLINGHAUS, A. R.
Preparation of a design study for the construction of a 2 million tons/annum commercial scale hydrogenation plant
[BMFT-FB-T-83-135] 03 p0405 N84-12652

ELLINGSEN, E.
Remote sensing of the marginal ice zone during Marginal Ice Zone Experiment (MIZEX) 83
23 p3772 N84-33910

ELLINGSON, W. A.
Development of ultrasonic methods for the nondestructive inspection of concrete
[DE83-017923] 04 p0595 N84-13929
Application of NDE methods to green ceramics: Initial results
[DE84-006411] 14 p2130 N84-23769
Application of NDE methods to green ceramics: Initial results
[DE84-010571] 18 p2819 N84-27898

ELLINGSWORTH, J. R.
Tensile testing apparatus
[NASA-CASE-LAR-13243-1] 11 p1656 N84-20804

ELLIOT, D. H.
Earth science investigations in the United States Antarctic Research Program (USARP)
[PB84-119460] 09 p1336 N84-18722

ELLIOTT, A. M.
The aerodynamic admittance of model bridges
[NMI-R-176] 18 p2851 N84-28105

ELLIOTT, B. W.
Models of purposive human organization: A comparative study
[AD-A138871] 14 p2247 N84-24491

ELLIOTT, D. B.
Spatial reasoning to determine stream network from LANDSAT imagery
[E84-10063] 06 p0865 N84-15632

ELLIOTT, D. L.
Wind shear for large wind turbine generators at selected tail tower sites
[DE84-011790] 22 p3626 N84-32974

ELLIOTT, G. R.
Second-order adaptive infinite impulse response filter
[DE84-001768] 06 p0831 N84-15406
Detection of multiple sinusoids using an adaptive cascaded structure
[DE84-005521] 11 p1645 N84-20753

ELLIOTT, H.
Bayes smoothing algorithms for segmentation of images modelled by Markov random fields
[AD-A133966] 05 p0734 N84-14817
Application of the Gibbs distribution to image segmentation
[AD-A133406] 06 p0901 N84-15850

ELLIOTT, K. R.
LEC GaAs for integrated circuit applications
[NASA-CR-173267] 07 p1079 N84-17014

ELLIOTT, R. A.
Evaluation of turbulence induced noise in coherent anti-Stokes Raman scattering
[NASA-CR-166544] 08 p1227 N84-18015

ELLIOTT, R. C.
Annotated bibliography of battery evaluations
[DE84-000653] 04 p0527 N84-13466

ELLIOTT, R. D.
Continuing design, review and analysis work for the Sierra Cooperative Pilot Project
[PB84-143627] 11 p1688 N84-21012

ELLIOTT, R. O.
Isothermal calorimetric investigation of a reversible reaction in rapidly solidified Fe40Ni40B20
[DE84-006013] 15 p2298 N84-24791

ELLIOTT, W. D.
Investigation, development, and evaluation of performance proving for fault-tolerant computers
[NASA-CR-166008] 15 p2385 N84-25307
Hierarchical design and verification for VLSI
15 p2388 N84-25323

ELLIOTT, W. P.
A preliminary study of the feasibility of detecting long-term trends in atmospheric humidity
[DE84-006417] 14 p2180 N84-24055

ELLIS, A. B.
Photoluminescent properties of n-GaAs electrodes: Applications of the dead-layer model to photoelectrochemical cells
[AD-A131301] 02 p0298 N84-11958
Polarization effects in the luminescence of cadmium selenide electrodes
[AD-A133951] 05 p0647 N84-14253
Zinc selenide photoelectrodes. Efficient radiative recombination in a stable photoelectrochemical cell
[AD-A141869] 19 p3051 N84-29360

ELLIS, A. E.
Excited-state processes of relevance to photoelectrochemistry
[AD-A131300] 02 p0298 N84-11957

ELLIS, C. S.
The ROE file system
[AD-A140497] 16 p2567 N84-26473

ELLIS, D. E.
Defect clusters and electrical properties in transition metal monoxides
[DE84-014851] 22 p3666 N84-33242

ELLIS, F.
Optimization of transparent electrode for solar cell and chemical vapor deposition of amorphous silicon
[DE83-017780] 12 p1843 N84-22014

ELLIS, J.
Orbit determination of highly elliptical Earth orbiters using VLBI and delta VLBI measurements
04 p0518 N84-13402
Theoretical perspectives on strange physics
[DE83-018085] 04 p0601 N84-13965
The e+e- collisions in the multi-TeV region
[DE84-000993] 04 p0601 N84-13968
New particles and interactions
[DE84-001444] 05 p0745 N84-14894

ELLIS, J. A.
Effects of behavioral objectives and instructions on earning a category task
[AD-A130386] 01 p0116 N84-10750

ELLIS, S. P.
On the representation of probability distributions as the convolution of symmetric and completely asymmetric parts
[AD-A140843] 17 p2760 N84-27528

ELLIS, T. J.
The ISPM solar-wind plasma experiment
09 p1261 N84-18231

ELLISON, G. B.
Laser photoelectron spectroscopy of ions
[DE84-008932] 18 p2812 N84-27852

ELLISON, J. A.
Resonance between channeled particle wavelengths and periodicity of strained-layer superlattices
[DE84-002173] 07 p1081 N84-17032

ELLISON, J. H.
Analysis of finite difference discretizations of Navier-Stokes problems on mapped domains
02 p0283 N84-11858

Comparison of a simplified version of TRACKER with an analytic solution to a model ray tracing problem
[DE84-007091] 12 p1848 N84-22044

ELLSAESSER, H. W.
Response to W. W. Kellogg carbon dioxide and climatic change: Implications for mankind's future
[DE84-002723] 06 p0882 N84-15737
Response to W. W. Kellogg's Carbon Dioxide and Climatic Change
[DE84-010986] 20 p3241 N84-30577

ELMAN, H. C.
A hybrid Chebyshev Krylov subspace algorithm for solving nonsymmetric systems of linear equations
[AD-A139301] 14 p2213 N84-24291
Preconditioning by fast direct methods for non-self-adjoint nonseparable elliptic equations
[AD-A139360] 14 p2219 N84-24316

ELMEGREEN, D. M.
Automated microdensitometer for digitizing astronomical plates 18 p2841 N84-28039

ELMLINGER, R. H.
A tutorial for the Ramtek 9460 raster graphics system and the di-3000 graphics package
[AD-A141834] 19 p3078 N84-29530

ELMORE, D. L.
Dynamic gas temperature measurement system, volume 1
[NASA-CR-168267-VOL-1] 07 p1007 N84-16529

ELMORE, V. L.
MIL-STD-1553B in MRASM (Medium Range Air to Surface Missile): The designer's challenge
[AD-P003541] 21 p3333 N84-31145

ELNADI, A. M.
Effect of magnetic bending on the high-frequency stability of the ELMO Bumpy Torus
[DE83-017177] 03 p0450 N84-12961

ELRAZAZ, Z.
Analysis of electrical accident prevention countermeasures
[PB84-102987] 08 p1207 N84-17869

ELREFAIE, A. F.
Digital communications over satellite channels 05 p0664 N84-14365

ELROD, B. D.
Tracking Data Acquisition System (TDAS) for the 1990's. Volume 6: TDAS navigation system architecture
[NASA-CR-175198] 10 p1434 N84-19374
Tracking and data acquisition system for the 1990's. Volume 8: TDAS frequency planning
[NASA-CR-175200] 10 p1434 N84-19376

ELROD, C. W.
Experimental verification of an endwall boundary layer prediction method 07 p0958 N84-16211

ELSBERRY, R. L.
A determination of the constants for a second-order closure turbulence model from geophysical data
[AD-A134826] 08 p1195 N84-17795
A synoptic case study analysis of the ocean temperature anomalies in the central Pacific region, 1976 - 1979
[AD-A142548] 20 p3251 N84-30631

ELSENAAR, A.
Half-model testing in the NLR high speed wind tunnel HST: Its technique and application 14 p2098 N84-23588
Half-model testing in the NLR High Speed Tunnel (HST): Its technique and application
[NLR-MP-83036-U] 17 p2601 N84-26675
Technical evaluation report on the Fluid Dynamics Panel Symposium on Wind Tunnels and Testing Techniques
[AGARD-AR-193] 22 p3539 N84-32402

ELSHAZLY, A. G.
Geothermal potential along the Balcones/Ouachita trend, central Texas: Ongoing assessment and selected case studies
[DE84-010826] 20 p3241 N84-30578

ELSKAMP, D. M. W.
Toxicology of tetrachloroethylene
[MBL-1983-3] 12 p1866 N84-22159
Toxicology of styrene
[MBL-1983-11] 12 p1866 N84-22160

ELSMORE, B.
Multifrequency observations of three active galaxies 24 p3972 N84-35151

ELSMORE, T. F.
Animal models of human performance: Structural and functional approaches to extrapolating from animal to man
[AD-P003292] 18 p2908 N84-28442

ELSPASS, C. E.
Microprocessor-based control system for flowing-electrolyte zinc-bromine battery systems
[DE83-012506] 03 p0369 N84-12403

ELSTNER, I.
Sintering behavior of refractories in the ternary system ZrO2-Al2O3-Cr2O3 in dependence of the firing atmosphere
[BMFT-FB-T-83-105] 02 p0197 N84-11285

ELSTON, S. B.
Differential charge transfer and continuum electron capture studies for ions in atomic hydrogen
[DE84-009675] 19 p3102 N84-29708

ELSTON, W. E.
Chronology, morphology and stratigraphy of pumiceous pyroclastic-flow (ignimbrite) deposits from the eruption of Mount St. Helens on 18 May 1983 13 p2080 N84-23476
Classification of volcanoes of the Kane Patera Quadrangle of Io: Proportions of lava flows and pyroclastic flows 13 p2080 N84-23477
A regression model for the temporal development of soil pipes and associated gullies in the alluvial-fill valley of the Rio Puerco, central New Mexico 13 p2084 N84-23502

ELVIUS, A.
The broad absorption line region in NGC 4151 24 p3971 N84-35146

ELWELL, D.
Research and crystal growth on high dielectric constant materials for mm wave applications
[AD-A136281] 09 p1394 N84-19102
Materials for high-temperature thermoelectric conversion
[NASA-CR-173969] 23 p3786 N84-34011
Research and crystal growth on high dielectric constant materials for mm wave applications
[AD-A144412] 24 p3967 N84-35119

ELY, J. T. A.
Cosmic rays, solar activity, magnetic coupling, and lightning incidence
[NASA-CR-3812] 19 p3057 N84-29397
Solar influence on terrestrial weather and global lightning patterns via cosmic ray modulations 24 p3927 N84-34855

ELY, S. R.
Experimental digital stereo sound with terrestrial television: Field tests from Wenvoe, October 1983
[BBC-RD-1983/19] 09 p1298 N84-18483

ELYAFI
Investigation of criteria enabling a two-dimensional grid to evolve while minimizing errors
[CETIM-100980] 21 p3467 N84-31982

ELYASBERG, P. Y.
Guaranteed accuracy in determining orbit of Halley's Comet 19 p2973 N84-28845

EMAMI, S.
Phase averaged measurements of the coherent structure of a mach number 0.6 jet
[NASA-CR-175359] 07 p0945 N84-16134

EMANUAL, W. R.
Computer implementation of a globally averaged model of the world carbon cycle
[DOE/NBB-0062] 23 p3793 N84-34055

EMBRECHTS, M. J.
Plasma engineering design of a Compact Reversed-Field Pinch Reactor (CRFPR)
[DE84-004334] 10 p1586 N84-20394

EMBREE, W. N.
Water resources data for West Virginia, water year 1982
[PB84-120161] 09 p1340 N84-18754

EMBURY, J. F.
Application of two-dimensional discrete-ordinates methods to multiple scattering of laser radiation
[AD-A133258] 06 p0849 N84-15539

EMERSON, D. J.
Decomposition of four ammonium nitrate propellants
[AD-A136916] 10 p1470 N84-19601

EMERSON, L. C.
A practical sublimation source for large-scale chromium gettering in fusion devices
[DE84-000724] 04 p0606 N84-14002

EMERSON, M. D.
Productivity measurement in software engineering
[PB83-227330] 01 p0160 N84-11054

EMERY, M. H.
Analysis of stability and symmetry implications for ICF
[DE84-000640] 04 p0540 N84-13556
Vortex shedding and laser ablation
[DE84-000301] 04 p0541 N84-13565
Observation of Rayleigh-Taylor-Like structures in a laser-accelerated foil
[AD-A140294] 16 p2556 N84-26399

EMERY, W. J.
Variations in surface current off the coasts of Canada as inferred from infrared satellite imagery 17 p2719 N84-27305

EMILIO, C.
Situational interaction: A peer counseling approach to AWOL (unauthorized absences from duty) reduction
[AD-P003243] 18 p2903 N84-28410

EMILY, D.
Proton-induced single event upsets in the SBP9989 microprocessor
[AD-A142448] 20 p3266 N84-30724

EMIN, D.
Refractory materials for high-temperature thermoelectric energy conversion
[NASA-CR-173159] 08 p1136 N84-17368
Thermal conductivity behavior of boron carbides
[NASA-CR-173165] 09 p1316 N84-18600

EMMANUELLI, C. A.
Primer for the Transportable Applications Executive
[NASA-TM-86062] 09 p1367 N84-18921

EMME, E. M.
With a view to their practical solution: Sixty years with NACA and NASA, 1915 - 1976
[NASA-TM-85555] 09 p1418 N84-19277

EMMERT, G. A.
Conceptual design of the RFC reactor
[IPPJ-659] 11 p1733 N84-21304

EMMETT, M. B.
Calculations of radiation fields and monkey mid-head and mid-thorax responses in AFRRI-TRIGA reactor facility experiments
[DE83-015483] 02 p0264 N84-11741

EMMITT, G. D.
Evaluation of 2 1-D cloud models for the analysis of VAS soundings
[NASA-CR-3771] 06 p0861 N84-15729
NASA/MSFC ground-based Doppler lidar nocturnal boundary layer experiment (Noblex)
[NASA-CR-3778] 11 p1731 N84-21293
Cloud scale influences on mesoscale precipitation patterns 24 p3930 N84-34879

EMMONS, H. W.
The computer fire codes and required new data 04 p0513 N84-13369
Computer modeling of aircraft cabin fires
[PB84-101153] 08 p1101 N84-17162

EMNETT, R. F.
Translators between CADD and section 5 of the ANSI Y14.26M standard 12 p1871 N84-22192
Reflections on representing non-geometric data 12 p1874 N84-22216
Modeling concepts for communication of geometric shape data 12 p1875 N84-22217

EMORI, R. I.
Scaling laws on fire spread 04 p0513 N84-13368

EMPTOZ, H.
A set function approach to cluster analysis 09 p1412 N84-19237

EMRATH, P. A.
Page indexing for textual information retrieval systems 21 p3517 N84-32277

EMRE, E.
Review of research under the Joint Services Electronics Program
[AD-A141458] 19 p3013 N84-29100

EMRICK, H. L.
Design of longitudinal control laws for the X-29A backup analog flight control system
[AD-A137814] 11 p1619 N84-20601

EMSHARY, C.
Observation of optical hysteresis in an all-optical passive ring cavity 14 p2240 N84-24447

EMSLIE, A. G.
The interpretation of hard X-ray polarization measurements in solar flares
[NASA-CR-172790] 08 p1246 N84-18142

EMTAGE, P. R.
MSW (magnetostatic wave) variable time-delay techniques
[AD-A133770] 05 p0753 N84-14941

EMURIAN, H. H.
Positive and negative reinforcement effects on behavior in a three-person microsociety
[NASA-CR-173164] 09 p1363 N84-18902
Behavioral and biological effects of changes in group size and membership
[NASA-CR-173801] 19 p3067 N84-29457

ENABNIT, D. B.
User requirements and a high level design of the hydrographic software/data processing subsystem of an airborne laser hydrography system
[PB83-228569] 01 p0127 N84-10830

ENDECOTT, B. R.
Combustibility of electrical wire and cable for rail rapid transit systems. Volume 2: Toxicity
[DOT-TSC-UMTA-83-4.2-VOL-2] 02 p0217 N84-11421

Inhalation toxicology. 3: Evaluation of thermal degradation products from aircraft and automobile engine oils, aircraft hydraulic fluid, and mineral oil
[AD-A133221] 06 p0889 N84-15778

ENDEMANN, M.
Applications of laser for climatology and atmospheric research
[BLEV-R-85.169-5] 16 p2529 N84-26237
Fundamentals of spaceborne remote sensing: Applications of lasers, volume 1
16 p2529 N84-26238
Definition and design of spaceborne lidar instruments
16 p2529 N84-26240
A CO2 laser transceiver package with Gbit/sec capability for space-to-space communications
24 p3905 N84-34731
Design of a spaceborne lidar for measurements from operational satellites 24 p3907 N84-34745

ENDICOTT, D. L., JR.
Microfiche Image Transmission System (MITS) demonstration field evaluation of microfacsimile
[AD-A134716] 08 p1145 N84-17450
MITS II (Microfiche Image Transmission System) investigations and design alternatives
[AD-A141040] 18 p2945 N84-28673

ENDO, M.
Fatigue process of hard steels
07 p0983 N84-16368

ENDO, T.
Study on creep-fatigue life prediction using simple high temperature low cycle fatigue testing machines
[PB83-224121] 01 p0086 N84-10559

ENDO, Y.
Report of pit-wall observations of snow cover in Sapporo, 1982 - 1983 23 p3762 N84-33843

ENDOH, T.
Simultaneous observation of snowfall intensity and visibility in winter at Sapporo 15 p2354 N84-25125

ENDRES, D. L.
Methodology for interpretation of SST retrievals using the AVHRR split window algorithm
[NASA-TM-85100] 24 p3934 N84-34905

ENENKL, B.
Aeroelastic design considerations in the development of helicopters 02 p0171 N84-11126

ENEVOLDSON, E. K.
Pilot human factors in stall/spin accidents of supersonic fighter aircraft 06 p0779 N84-15102

ENG, G.
Auger characterization of new and aged dispenser cathode surfaces
[AD-A140754] 17 p2663 N84-26988

ENG, W. P.
An improved dual-frequency technique for the remote sensing of ocean currents and wave spectra
17 p2714 N84-27281

ENGE, W.
Measurement of heavy cosmic-ray nuclei on LDEF (M0002-2) 15 p2276 N84-24664

ENGEL, C. D.
MINIVER upgrade for the AVID system. Volume 1: LANMIN user's manual
[NASA-CR-172212] 01 p0120 N84-10779
MINIVER upgrade for the AVID system. Volume 2: LANMIN input guide
[NASA-CR-172213] 01 p0120 N84-10780

ENGEL, H.
Engineering services in support of the AFGL sounding rocket program
[AD-A131929] 03 p0340 N84-12211

ENGEL, J.
Thematic Mapper (TM) instrument description
20 p3205 N84-30363
Thematic Mapper sensor characteristics
20 p3206 N84-30365

ENGELBERG, N.
Considerations on command and response language features for a network of heterogeneous autonomous computers
[NASA-TM-86089] 18 p2923 N84-28535

ENGELBRECHT, R. S.
Passive source localization from spatially correlated angle-of-arrival data
[AD-A133141] 06 p0822 N84-15362

ENGELHARDT, M.
Tests for an increasing trend in the intensity of a Poisson process: A power study
[AD-A131213] 02 p0285 N84-11867

ENGELKE, H. A.
Application guidelines for quality assurance procedures for hybrid microcircuits
[AD-A131395] 02 p0214 N84-11405

ENGELMANN, P. D.
Ability and expertise in act generation
[AD-A137973] 13 p2022 N84-23110

ENGELS, D.
The characteristics of OH/IR objects, infrared stars with OH maser emission
[IA-PUBL-95] 01 p0164 N84-11078

ENGELTHALER, Z. A.
Ceramic glazes: Basic information
[PB84-150663] 14 p2130 N84-23772

ENGER, R. C.
Holographic optical elements with ultra-high spatial frequencies
[AD-A132355] 04 p0538 N84-13537

ENGERER, S. C.
Organic azides as jet fuel additives: Synthesis of azides and micro-explosion characteristics of droplets
20 p3144 N84-29963

ENGGUIST, M. G.
Energetic-particle stabilization of ballooning modes in Tokamaks
[DE83-016205] 04 p0609 N84-14020

ENGI, D.
Mapping the acid stimulation in the Beowawe geothermal field using surface electrical potentials
[DE84-004995] 11 p1672 N84-20908

ENGIN, A. E.
Analysis of the kinematic properties data of the shoulder complex during forced motion
[AD-A135913] 09 p1362 N84-18895

ENGL, W. L.
Very large scale integration logical and physical structures of VLSI systems
[BMFT-FB-T-83-267] 10 p1488 N84-19730

ENGLADE, R.
Lower hybrid experiments at the 1 MW level on Alcator C: Heating and current drive
[DE84-010586] 20 p3304 N84-30981
Realistic modelling of lower hybrid current drive with multiple codes
[DE84-010576] 20 p3304 N84-30982

ENGLAND, A. C.
Electron-cyclotron-heating experiments in Tokamaks and stellarators
[DE83-017210] 03 p0450 N84-12958
Experimental results on finite-beta limits and transport in the ISX-B Tokamak
[DE84-000258] 04 p0606 N84-14001
Preionization and start-up in the ISX-B Tokamak using electron cyclotron heating at 28 GHz
[DE84-002261] 06 p0920 N84-15984

ENGLAND, C. E.
Group Agromet Monitoring Project (GAMP), phase 1
[ESA-CR(P)-1769] 07 p1023 N84-16637

ENGLAND, G. R.
System architecture: Key to future avionics capabilities 06 p0768 N84-15035
Elements for successful implementation of computing standards
[AD-P003566] 21 p3336 N84-31171

ENGLE, W. W., JR.
Space reactor shielding: An assessment of the technology
[DE84-003319] 10 p1577 N84-20335

ENGLEBRETSON, R. E.
Forecasters handbook for the Middle East/Arabian Sea
[AD-A134312] 07 p1039 N84-16739
Navy tactical applications guide. Volume 5, Part 1: Indian Ocean (Red Sea/Persian Gulf) weather analysis and forecast applications
[AD-A134412] 07 p1039 N84-16740

ENGLEMAN, J. H.
Prediction model for the life of nickel-cadmium batteries in geosynchronous orbit satellites
23 p3737 N84-33686

ENGLEMAN, R., JR.
New program for the least-squares calculation of atomic energy levels
[DE83-014076] 01 p0143 N84-10941
Studies of an inductively coupled plasma with a Fourier-transform spectrometer
[DE83-014194] 01 p0151 N84-10991

ENGLER, E. M.
Pressure studies of organic superconductors
[DE83-015344] 01 p0155 N84-11021

ENGLER, H.
Stabilization of solutions for a class of parabolic integro-differential equations
[AD-A132821] 05 p0736 N84-14837

ENGLISCH, W.
Design of a CO2 laser transceiver package for space-to-space optical communication
[BLEV-R-84.225] 16 p2482 N84-25913
A CO2 laser transceiver package with Gbit/sec capability for space-to-space communications
24 p3905 N84-34731
Design of a spaceborne lidar for measurements from operational satellites 24 p3907 N84-34745

ENGLISH, J. D.
Stirling-engine heat-actuated heat pump
[DE83-017137] 04 p0537 N84-13529

ENGLISH, J. J.
Project manager's guide
[DE83-014454] 02 p0301 N84-11977

ENGLUND, C. E.
Minicomputer administered tasks in the study of effects of sustained work on human performance
[AD-A133870] 05 p0715 N84-14688
Extending human effectiveness during sustained operations through sleep management
[AD-A134782] 08 p1200 N84-17825

ENGLUND, D. R.
The infinite line pressure probe
[NASA-TM-83582] 10 p1498 N84-19787

ENGMAN, E. T.
Aircraft remote sensing of soil moisture and hydrologic parameters, Taylor Creek, Florida, and Little River, Georgia, 1979 data report
[E84-10010] 02 p0236 N84-11548
Microwave radiometer experiment of soil moisture sensing at BARC test site during summer 1981
[NASA-TM-86056] 14 p2168 N84-23989

ENGMANN, G.
Photovoltaic central station step and touch potential considerations in grounding system design
22 p3584 N84-32699

ENKE, C. G.
A modular twin bus microprocessor system for laboratory automation
[AD-A133372] 06 p0896 N84-15815

ENMARK, H.
Airborne Visible/Infrared Imaging Spectrometer (AVIRIS): An advanced tool for Earth remote sensing
23 p3781 N84-33976

ENNIS, B. C.
Permeability of flexible materials used in fuel storage tanks. Part 1: General review
[MRL-TN-459] 05 p0662 N84-14353

ENNIS, D. J.
A helium-3 refrigerator employing capillary confinement of liquid cryogen 06 p0821 N84-15353

ENNIS, P. J.
Constitutive equations for the creep behavior of nickel-base alloys for High Temperature Reactor (HTR) components in the temperature range 1023-1273 K
[JUEL-1843] 05 p0657 N84-14318

ENOKA, R. M.
Appropriateness of the small-cage-reared rat as a model for the study of altered-activity effects
09 p1354 N84-18851

ENOME, S.
Acceleration and confinement of energetic particles in the 7 June 1980 solar flare
[NASA-CR-173545] 16 p2580 N84-26550

ENOMOTO, F.
Using a commercial CAD system for simultaneous input to theoretical aerodynamic programs and wind-tunnel model construction 12 p1875 N84-22223

ENSLIN, K.
POPSAT: A candidate satellite system for solid Earth applications and sciences. Preliminary feasibility study. Volume 1: Summary
[ESA-CR(P)-1882-VOL-1] 17 p2614 N84-26735
POPSAT: A candidate satellite system for solid Earth applications and sciences. Preliminary feasibility study. Volume 2: Development program
[ESA-CR(P)-1882-VOL-2] 17 p2614 N84-26736

ENSLIN, W. R.
Photo interpretation key to Michigan land cover/use
[E84-10048] 04 p0553 N84-13641

ENSLOW, P. H. J.
Software support for fully Distributed/Loosely coupled processing systems, volume 1
[AD-A141500] 19 p3076 N84-29518
Software support for fully distributed/loosely coupled processing systems. Volume 2: Appendix-selected papers
[AD-A141501] 19 p3076 N84-29519

ENSSLIN, G.
Optical multiplexers and demultiplexers for optical wavelength-division multiplex transmission systems
[BMFT-FB-T-83-167] 05 p0748 N84-14912

ENTIN, E. P.
Investigation of the state of materials in plasma deposition of refractory coatings
[BLL-M-35686-(5828.4)] 22 p3551 N84-32485

ENTINE, G.
Replicated CdTe substrates
[AD-A133114] 06 p0922 N84-15994
Low cost, sprayed CuInSe2 solar cell research
[DE84-005339] 10 p1530 N84-20023
Low cost, sprayed CuInSe2 solar cell research
[DE84-010480] 20 p3235 N84-30533

ENTING, I. G.
Refinements to a one-dimensional carbon cycle model
[ISBN-0-643-03582-6] 10 p1533 N84-20040
ENYART, J. N.
Artificial intelligence applied to the command, control, communications and intelligence of the US Central Command
[AD-A137205] 10 p1567 N84-20267
EOM, H. J.
Estimation of albedo and optical thickness with the radiative transfer method 23 p3778 N84-33952
EPHRETH, A.
EMC (electromagnetic compatibility) modeling and analysis: A probabilistic approach
[AD-A135664] 09 p1301 N84-18505
EPIPHANIO, J. C. N.
Effect of the angle of observation and of surface roughness in the spectral behavior of soils under varied moisture conditions
[INPE-2777-RPE/436] 11 p1671 N84-20904
Irrigated lands: Monitoring by remote sensing
[NASA-CR-173945] 23 p3763 N84-33854
EPOV, A. A.
Optimum dimensions of solid zirconium dioxide-base electrolyte in transducer of activity meter
08 p1234 N84-18064
EPPERSON, B. J.
Development and demonstration of a spiral-wound thin-film composite membrane system for the economical production of oxygen-enriched air, phases 1, 2 and 3
[DE84-002918] 07 p0972 N84-16298
EPPLE, W.
System for Application oriented Requirement Specification (SARS)
[BMFT-FB-DV-83-006] 12 p1885 N84-22286
EPPLER, D. T.
Assessment of potential SSM/I (Special Sensor Microwave/Imager) ice products in light ESMR (Electrically Scanning Microwave Radiometer) and SMMR (Scanning Microwave Spectrometer) ice classification algorithms
[AD-A130961] 02 p0239 N84-11570
EPPS, J. A.
Evaluation of fabric interlayers
[PB83-253245] 05 p0664 N84-14363
EPSHTEIN, G. N.
The importance of impact pressure in the development of the process of formation of bonds between metals in the solid phase
[BLL-M-35656-(5828.4)] 22 p3550 N84-32473
EPSHTEYN, G. N.
Effect of stretch rate on texture and mechanical properties of nickel-cobalt alloys
24 p3869 N84-34521
EPSTEIN, E. E.
Extragalactic radio sources: Rapid variability at 90 GHz
[AD-A136533] 10 p1595 N84-20451
Quenchings and outbursts of extragalactic radio sources: Nine years of 3.3-mm measurements and comparisons with centimeter-wave variations
[AD-A138233] 13 p2092 N84-23550
Saturn's rings: 3-mm low-inclination observations and derived properties
[NASA-TM-87363] 23 p3844 N84-34387
EPSTEIN, G.
The ISPM unified radio and plasma wave experiment
09 p1262 N84-18237
The simplification of multiple-valued symmetric functions
[AD-P002340] 14 p2191 N84-24131
EPSTEIN, J. S.
An integral optical method for determining stress intensity factors 15 p2311 N84-24866
EPSTEIN, M.
Preliminary study for the modeling of an artificial icing cloud
[AD-A135717] 09 p1349 N84-18813
EPTON, M. A.
PAN AIR: A computer program for predicting subsonic or supersonic linear potential flows about arbitrary configurations using a higher order panel method. Volume 1: Theory document (version 1.1)
[NASA-CR-3251] 18 p2788 N84-27697
ERAT, K.
Local network wideband interconnection alternatives
[AD-A138604] 13 p1982 N84-22868
ERAUD, M. Y.
Figural aftereffects: An explanation in terms of multiple mechanisms in the human visual system
[AD-A132066] 03 p0415 N84-12715
ERBEN, E.
Development of new absorber coatings for high temperature applications
[BMFT-FB-T-84-033] 16 p2471 N84-25837
ERBIL, A.
Structure and phase transitions in bromine and potassium-mercury intercalated graphite
[AD-A133863] 05 p0645 N84-14244
ERBSCHLOE, D. R.
The Spot of Arago and its role in aberration analysis
[AD-A141983] 20 p3299 N84-30952
ERCEGOVAC, M. D.
Dataflow computing approach in high-speed digital simulation
[NASA-CR-173552] 15 p2389 N84-25336
ERCEGOVIC, D. B.
Ceramic composite liner material for gas turbine combustors
[NASA-TM-83490] 05 p0631 N84-14145
ERCHINGER, D. A.
Scale model testing for control system parameters of large structures
[AD-A135652] 09 p1273 N84-18313
ERCKMANN, V.
Magnetoacoustic heating and Flux-Conserving-Tokamak (FCT) equilibria in a belt pinch
[IPF-83-4] 14 p2231 N84-24380
ERDIK, M.
Middle East Technical University Journal of Pure and Applied Sciences, volume 15, no. 2
15 p2401 N84-25406
Middle East Technical University Journal of Pure and Applied Sciences, volume 15, no. 3
15 p2401 N84-25411
ERDLE, E.
High temperature electrolysis of water vapor. Status and perspectives of the German research and development activities 11 p1739 N84-21349
High temperature electrolysis of water vapor: HOT ELLY, phase 2A
[BMFT-FB-T-84-032] 16 p2463 N84-25784
ERDMENGER, J.
Possibilities for the future organization of air transport in the European community 10 p1424 N84-19309
ERDOGAN, F.
A cylindrical shell with a stress-free end which contains an axial part-through or through crack
[NASA-CR-173290] 08 p1169 N84-17617
A pressurized cylindrical shell with a fixed end which contains an axial part-through or through crack
[NASA-CR-173291] 08 p1169 N84-17618
Transient thermal stresses in a reinforced hollow disk or cylinder containing a radial crack
[NASA-CR-173292] 08 p1170 N84-17619
Surface cracks in a plate of finite width under tension or bending
[NASA-CR-172309] 10 p1516 N84-19926
The crack-inclusion interaction problem
[NASA-CR-172308] 10 p1516 N84-19928
Stress intensity factors in a reinforced thick-walled cylinder
[NASA-CR-172307] 11 p1668 N84-20879
Crack problems for bonded nonhomogeneous materials under antiplane shear loading
[NASA-CR-173892] 22 p3609 N84-32863
EREKSON, J. L.
Remote sensing and hydrologic models
[E84-10082] 07 p1022 N84-16628
Review of hydrologic models for evaluating use of remote sensing capabilities 07 p1022 N84-16629
EREMIN, V. E.
Stabilization of thickness of zinc coating by adaptive system of control
[BLL-M-35367-(5828.4)] 09 p1281 N84-18364
ERHARD, H.
New process for recycling of rhodium and iridium from old catalysts
[BMFT-FB-T-83-179] 08 p1126 N84-17321
ERIC, H.
Application of regular associated solution model to the liquidus curves of the Sn-Te and Sn-SnS systems
15 p2402 N84-25418
ERICH, R.
Pulse echo ultrasonic techniques for underwater inspection of steel waterfront structures
[AD-A133701] 05 p0689 N84-14527
ERICKSEN, J. L.
The Cauchy and Born hypotheses for crystals
[AD-A136374] 09 p1395 N84-19107
ERICKSEN, R. H.
Preliminary results of the effects of sewing, packing and parachute deployment on material strength
[DE84-006464] 13 p1927 N84-22541
ERICKSON, D. C.
Oxygen production by the moltox process
[DE83-012847] 02 p0190 N84-11237
ERICKSON, D. J.
Design of a 20-MJ coaxial generator
[DE83-014152] 01 p0073 N84-10481
Megavolt pulse transformer powered by a fast plate generator
[DE83-014189] 03 p0366 N84-12384
ERICKSON, E. D.
Products from the detonation of trinitrotoluene in air and nitrogen
[AD-A137809] 11 p1639 N84-20713
Analysis of particulates in the exhaust plume of a TF30 engine at military power
[AD-A142510] 20 p3131 N84-29882
ERICKSON, E. F.
A hardware/software simulation for the video tracking system of the Kuiper Airborne Observatory telescope
[NASA-TM-85896] 15 p2424 N84-25562
ERICKSON, G. E.
Experimental investigation of forebody and wing leading-edge vortex interactions at high angles of attack
03 p0322 N84-12110
ERICKSON, J. E.
Meteorological interactive data display system (MIDDA)
[AD-A141864] 19 p3059 N84-29406
ERICKSON, K. L.
Effect of thermal aging on the output of a pyrotechnic actuator
[DE84-012903] 22 p3562 N84-32558
ERICKSON, P. A.
DRAMIN: Transferring data from the Applicon graphic system to A DRAM input file user guide
[DE83-018235] 03 p0421 N84-12753
ERICKSON, R.
Observations of ramped current operation in ZT-40M
[DE84-015076] 23 p3829 N84-34286
ERICKSON, R. E.
NASA rotor system research aircraft flight-test data report: Helicopter and compound configuration
[NASA-TM-85843] 22 p3535 N84-32381
ERICSON, T.
A minimax theorem for antijamming group codes
[DFVLR-FB-83-30] 06 p0906 N84-15879
ERICSON, W. F.
NASA rotor system research aircraft flight-test data report: Helicopter and compound configuration
[NASA-TM-85843] 22 p3535 N84-32381
ERICSSON, L. E.
Aeroelastic stability analysis of the light weight tank LH-2 cable tray
[LMSC/D059511] 05 p0692 N84-14543
Practical solutions to simulation difficulties in subscale wind tunnel tests 14 p2097 N84-23581
ERIKSEN, T.
Formation of free hydrogen during radiolysis in a bed of clay
[DE83-017724] 03 p0350 N84-12275
ERIKSON, E. D.
Vacuum outgassing of various materials
[DE84-001449] 04 p0495 N84-13247
Vacuum outgassing of various materials
[DE84-004812] 11 p1626 N84-20644
ERIKSSON, K.
A posteriori error analysis in L sub p norms for the finite element method
[CTH-MATH-1983-15] 13 p2035 N84-23198
ERIKSSON, L. E.
Numerical solutions of the Euler equations simulating vortex flows around wings 03 p0324 N84-12120
Development of a computer code for a three-dimensional higher order panel method for subsonic potential flow
[FFA-138] 04 p0479 N84-13155
Practical three-dimensional mesh generation using transfinite interpolation 06 p0838 N84-15463
Explicit multistage finite volume procedure to solve the Euler equations for transonic flow
06 p0838 N84-15464
Development of a computer code for 3-dimensional higher order panel method for subsonic potential flow
[FFA-138] 09 p1253 N84-18180
ERIKSSON, S. L.
Hyperharmonic cones and hyperharmonic morphisms
[ISBN-951-41-0476-5] 21 p3475 N84-32027
ERIKSSON, T.
Description of a calibrator for piezoelectric pressure transducers
[FOA-C-20496-D4] 05 p0686 N84-14507
ERINGEN, A. C.
Interaction of a dislocation with a crack
[AD-A131912] 03 p0389 N84-12536
On differential equations of nonlocal elasticity and solutions of screw dislocation and surface waves
[AD-A131911] 03 p0425 N84-12786
On continuous distributions of dislocations in nonlocal elasticity
[AD-A141858] 19 p3036 N84-29257
Nonlocal continuum theory for dislocation and fracture
[AD-A142538] 20 p3202 N84-30340

ERKELENS, L. J. J.
Determination of performance and stability characteristics from dynamic manoeuvres with a transport aircraft using parameter identification techniques
24 p3847 N84-34400

ERKES, J. W.
Employment of adaptive learning techniques for the discrimination of acoustic emissions
[AD-A138142] 12 p1899 N84-22366

ERKKILA, B.
Smart instrumentation development at Los Alamos
[DE84-003821] 10 p1499 N84-19798

ERKOMAISHVILI, G. G.
A crossed scintillation supertelescope to measure the muon component of cosmic ray intensity
24 p3994 N84-35274

ERLANDSON, R. E.
Seamless collapsible fuel tanks
[AD-A131933] 03 p0383 N84-12496
Development and fabrication of collapsible fuel storage drums for arctic use
[AD-A141207] 18 p2798 N84-27754

ERLER, J. W.
Nuclear-induced lightning aurora experiment
[AD-A131274] 02 p0249 N84-11628

ERLICH, D. C.
Short pulse fracture mechanics
[AD-P003105] 16 p2467 N84-25810

ERM, L.
A parametric study of ramrocket performance
[ARL-MECH-ENG-NOTE-395] 11 p1625 N84-20633

ERMAK, D. L.
Atmospheric dispersion of ammonia: An ammonia fog model
[DE84-000165] 04 p0560 N84-13689

ERMAKOV, A. E.
Mechanical properties of Mn-Al-C system alloys
[BLL-M-35432] 09 p1280 N84-18362

ERMAKOV, B. S.
Properties of manganese alloys for cryogenic engineering
[BLL-M-35127-(5828.4)] 01 p0040 N84-10251

ERMI, A. M.
Miniature center-cracked-tension specimen for fatigue crack growth testing
[DE84-001470] 06 p0862 N84-15615

ERNE, W.
Concept study phase A2 for the solar spectrograph PETRA
[BMFT-FB-W-83-014] 07 p1008 N84-16540

ERNEST, J.
Antimisting kerosene: Base fuel effects, blending and quality control techniques
[NASA-CR-174509] 07 p0980 N84-16351

ERNEUX, T.
Absorptive optical bistability in a bad cavity
14 p2240 N84-24448

ERNST, H.
The X, and L-band radar backscatterer analysis of agricultural crops in West Germany
23 p3767 N84-33879

ERNST, H. B.
Stress fractures: The remodelling response to excessive repetitive loading
[AD-A130681] 06 p0887 N84-15765

ERNST, R. C.
Fuel effects on gas turbine engine combustion
[AD-A138385] 12 p1803 N84-21753

ERNST, R. E.
Structural variation of proterozoic dikes in central Superior Province: A possible reflection of post-Archean shield deformation
11 p1678 N84-20954

ERNST, W.
High power bogie for 350 km/h. Design and definition
[MBB-UD-376-OE] 05 p0687 N84-14518
Automotive Stirling engine development program
[NASA-CR-168205] 08 p1242 N84-18117
Automotive Stirling engine development program
[NASA-CR-174622] 21 p3521 N84-32305

EROSHENKO, E. A.
Two large decreases of cosmic ray intensity in August and September, 1979
24 p3994 N84-35278

ERRICO, R.
Guide to transform software for nonlinear normal-mode initialization of the NCAR community forecast model
[PB84-119130] 09 p1350 N84-18820

ERSTFELD, T. E.
Preparation of high purity Ga(X)In(1-x) by the VPE-hydride method with a gallium-indium alloy source
[AD-A143275] 22 p3663 N84-33218

ERTELT, J.
Adaptive correction of control machines
[ISD-301] 16 p2484 N84-25929
An inductive process in automatic recording of crack propagation
[ISD-296] 16 p2502 N84-26056

ERTHAL, G. J.
On the relationship between Gaussian and binomial models for image registration by sequential tests of hypotheses
[INPE-3047-PRE/470] 16 p2548 N84-26350

ERTUERK, T.
Selection of a mineral-base lubricant for the cold rolling of aluminum strip
15 p2401 N84-25412

ERUSALIMSKII, B. L.
Study of the interaction of organomagnesium compounds with the salts of heavy metals and the use of organomagnesium compounds and their complexes as initiators of polymerization
[BLL-M-28720-(5828.4)] 02 p0198 N84-11292

ERVIN, L. C.
Tactical buying decisions for strategic petroleum reserve spot procurements: The tunnel theory
[AD-P002812] 13 p2060 N84-23358

ERWIN, J.
Investigation of sources, properties and preparation of distillate test fuels
[NASA-CR-168227] 04 p0508 N84-13332

ERZBERGER, H.
Time controlled descent guidance algorithm for simulation of advanced ATC systems
[NASA-TM-84373] 01 p0007 N84-10043
Mixing 4D-equipped and unequipped aircraft in the terminal area
11 p1616 N84-20577

ESAKLUL, K. A.
The effect of internal hydrogen on near-threshold fatigue crack propagation in iron base systems
23 p3717 N84-33560

ESCADA, J. B., JR.
Current status of th Brazilian LANDSAT facilities
10 p1523 N84-19977

ESCALUP, V.
Automation of a stamping press using sequential hydraulic manipulators
[CETIM-1-4N-090] 21 p3376 N84-31422

ESCHER, W. J. D.
Study of systems and technology for liquid hydrogen production independent of fossil fuels
[NASA-CR-173422] 13 p1965 N84-22768

ESCOBAR, D. E.
Increase of cold tolerance in cotton plant (Gossypium hirsutum L.) by mepiquat chloride
[E84-10088] 10 p1521 N84-19959
Reflectance measurements of cotton leaf senescence altered by mepiquat chloride
[E84-10089] 10 p1521 N84-19960

ESCUDIER, M. P.
Vortex breakdown: A two-stage transition
03 p0325 N84-12124

ESHELBY, M. E.
Experimental methods in flight for the measurement of control characteristics
01 p0014 N84-10091

ESHERICK, P.
Highly sensitive high resolution Raman spectroscopy using resonant ionization methods
[DE84-012240] 22 p3548 N84-32460

ESHLEMAN, R. L.
The Shock and Vibration Digest, volume 15, no. 12
[AD-A138158] 10 p1506 N84-19852

ESILVA, A. J. F. M.
An integrated software system for geometric correction of LANDSAT MSS imagery
[E84-10143] 16 p2507 N84-26091

ESKEY, M. A.
Tandem fan applications in advanced STOVL fighter configurations
[NASA-TM-83689] 15 p2261 N84-24579

ESKRIDGE, R. E.
Turbulent diffusion behind vehicles: Experiments and verification of roadway models
[PB84-194273] 21 p3326 N84-31101

ESMAILI, E.
Geochemistry of oil shale leachates and interaction with geologic substrates, Piceance Creek Basin, Colorado
21 p3440 N84-31825

ESOGBUE, A. O.
Dynamic programming algorithms and analyses for nonserial networks, part 1
[AD-A130885] 01 p0122 N84-10795

ESPELAND, R. H.
Urban millimeter wave propagation studies
[AD-A134465] 07 p0993 N84-16439
A diagnostic probe to investigate propagation at millimeter wavelengths
[PB84-104223] 08 p1148 N84-17473

ESPER, F. J.
High strength powder metal (PM) steels by liquid phase sintering
[BMFT-FB-T-83-139] 02 p0198 N84-11287

ESSEN, H.
Backscatter measurements on snow covered terrain at 94 GHz
[REPT-4-84] 20 p3172 N84-30144

ESSENWANGER, O. M.
Wind speed, stability category, and atmospheric turbulence at selected locations
[AD-A132947] 05 p0709 N84-14645
Joint probability of selected cloud and visibility thresholds around Frankfurt, Germany
[AD-A141342] 18 p2891 N84-28348

ESSERS, J. A.
A finite difference technique for laminar and turbulent compressible boundary layers 06 p0835 N84-15433
Characterization of the pressure wave originating in the explosion of a gas cloud 06 p0836 N84-15446
Computation of turbulent gas-particle suspension flows in channels 06 p0839 N84-15470
Computational techniques for hypersonic flows
16 p2442 N84-25666

ESSIG, A.
Molecule microscopy 22 p3681 N84-33337

ESTABROOK, K.
Thresholds of Raman backscatter: Effects of collisions and Landau damping
[DE84-003736] 08 p1233 N84-18060

ESTERLING, D. M.
An intersection algorithm for moving parts
12 p1871 N84-22193

ESTES, J. E.
Activities of the Remote Sensing Information Sciences Research Group
[E84-10177] 21 p3427 N84-31739
NASA pilot land data system
21 p3427 N84-31741
Knowledge-based expert systems for crop identification 21 p3428 N84-31744
Annotated bibliography of global resources information systems related publications 21 p3428 N84-31746
Global resources information system
21 p3428 N84-31747
The potential of AI techniques for remote sensing
21 p3428 N84-31748

ESTES, J. M.
APQ-102 imaging radar digital image quality study
[NASA-CR-171738] 08 p1143 N84-17435

ESTES, R. H.
The near-Earth magnetic field at 1980 determined from MAGSAT data
[E84-10170] 21 p3426 N84-31733
Large-scale, near-Earth, magnetic fields from external sources and the corresponding induced internal field
[NASA-TM-85012] 24 p3918 N84-34807

ESTEY, R. S.
Method and apparatus for precision control of radiometer
[NASA-CASE-NPO-15398-1] 13 p1992 N84-22931

ESTILL, W. B.
Porosity decrease in laser welds of stainless steel using plasma control
[DE84-002194] 05 p0688 N84-14521

ESTLANDER, A.
Development of air sulfur concentration in Finland through the year 2000
[ISBN-951-697-178-4] 19 p3052 N84-29366

ESTOQUE, M. A.
Subsynoptic variations in SEASAT winds
[PB84-131697] 09 p1350 N84-18823
Analysis of SEASAT wind observations in the Gulf of Mexico and the Caribbean Sea
[PB84-131309] 09 p1350 N84-18824

ESU, E. O.
Petrography and ultrasonic wave velocity in the Admire Formation (Permian), Kansas 22 p3621 N84-32945

ETCHETO, J.
Active sounder experiments on GEOS and ISEE
05 p0635 N84-14177

ETHELL, J. L.
Fuel economy in aviation
[NASA-SP-462] 06 p0786 N84-15144

ETHRIDGE, C. D.
Current research in parallel microprocessing systems at Los Alamos
[DE84-011342] 20 p3277 N84-30804

ETHRIDGE, E. C.
Containerless electromagnetic levitation melting of Cu-Fe and Ag-Ni alloys
[NASA-TM-82553] 03 p0352 N84-12288
Electromagnetic levitation coil fabrication technique for MSFC containerless processing facilities
[NASA-TM-82565] 09 p1306 N84-18535
Sonic levitation apparatus
[NASA-CASE-MFS-25828-1] 18 p2928 N84-28568
Containerless high purity pulling process and apparatus for glass fibers
[NASA-CASE-MFS-25905-2] 22 p3564 N84-32569

ETKIN, A.
Operation of the Brookhaven MPS Facility
[DE83-015383] 03 p0441 N84-12896
ETLING, W.
Doppler observation campaign in the Ivory Coast: Reconnaissance, measuring, interpretation and experience 19 p3040 N84-29289
ETORI, K.
Remarks on thermal analyses of thin 4He films in superfluid heat pipe 20 p3169 N84-30121
ETTER, C. L.
Acoustical measurements of DOE/NASA MOD-0 wind turbine at Plum Brook Station, Ohio
[DE83-011971] 02 p0242 N84-11584
ETTER, D. E.
Diffusion properties and phase transitions of the metalic glass a-Zr2-PdH-x
[DE83-016626] 05 p0660 N84-14341
ETTER, D. M.
Time delay estimation using the adaptive delay element
[DE84-002042] 06 p0830 N84-15403
ETTER, P. C.
Underwater acoustic modeling techniques 10 p1507 N84-19864
ETTERS, R. D.
Prediction of high-pressure phase transitions in solid N2 and the pressure dependence of the intramolecular vibrational frequencies
[DE83-015260] 04 p0615 N84-14057
Calculation of structures and magnetic orientations in solid alpha- and beta-O-2 as a function of pressure
[DE83-015215] 05 p0756 N84-14958
Prediction of pressure induced structural phase transitions and internal mode frequency changes in solid N2+
[DE83-014279] 05 p0756 N84-14960
ETTMAYER, P.
Investigations on the system boron-carbon silicon
[NASA-TM-77375] 09 p1275 N84-18324
ETTOUNEY, H. M.
Mathematical modelling of high-speed ribbbon systems: A case study of edge-defined film-fed growth 18 p2938 N84-28632
ETZKORN, H. W.
Quantitative sputter profiling at surfaces and interfaces 06 p0816 N84-15314
ETZLER, C. C.
Dynamic analysis of a Bearing and Power Transfer Assembly (BAPTA) solar generator system 09 p1294 N84-18456
Study of wind scatterometer antenna for ERS-1. Volume 1: Executive summary report
[Y/A-3380] 13 p2017 N84-23080
Study of windscatterometer antenna for ERS-1
[MIX/A-3188] 13 p2018 N84-23081
EUBANK, P. T.
Thermodynamic properties for natural gas binaries
[PB83-228403] 01 p0157 N84-11031
Thermophysical properties of gaseous carbon dioxide/water mixtures
[PB84-125228] 08 p1127 N84-17330
EUBANK, R. L.
Robust ABLUE's (Asymptotically Best Linear Unbiased Estimators) for location and scale parameter estimation
[AD-A130752] 01 p0132 N84-10867
A note on optimal and robust spacing selection
[AD-A130427] 01 p0136 N84-10888
EULRICH, B. J.
Command flight path display, phase 1 and 2
[AD-A140870] 17 p2611 N84-26711
EUSKIRCHEN, J.
Study on critical assessment of IR CCD arrays for spaceborne reflected and thermal IR imagers
[ESA-CR(P)-1881] 17 p2616 N84-26744
EUSTIS, R. H.
High magnetic field MHD generator program
[DE84-007690] 15 p2411 N84-25474
EVAN-IWANOWSKI, R. M.
Nonstationary resonance oscillations 10 p1506 N84-19848
EVANGELOU, P.
On the generation of vortical flow at hypersonic speeds over elliptical cones 03 p0323 N84-12114
EVANKOW, J. D., JR.
Semiconductor multipactor device
[AD-D011067] 19 p3017 N84-29125
EVANS-LUTTERODT, K.
X-ray diffuse scattering 22 p3682 N84-33341
EVANS, A.
Observation of the interstellar ice grain feature in the Taurus molecular clouds
[DE84-004316] 10 p1595 N84-20453
Observations of the interstellar ice grain feature in the Taurus molecular clouds 16 p2570 N84-26493
Observations of the interstellar ice grain feature in the Taurus molecular clouds 18 p2948 N84-28691
EVANS, A. G.
Micro and macro mechanics of fracture in ceramics
[AD-A137290] 10 p1465 N84-19572
High temperature failure mechanisms in ceramic polycrystals
[DE84-006641] 13 p1965 N84-22764
Applications of the GPS (Global Positioning System) Geodetic Receiver System
[AD-A140567] 17 p2605 N84-26688
A method for determining the magnitude of Earth's gravity
[AD-D011042] 19 p3054 N84-29383
EVANS, B. L.
A correction factor to f-chart predictions of active solar fraction in active-passive heating systems 16 p2513 N84-26127
EVANS, B. R.
JOVIAL language control procedures with a view toward Ada (Trademark)
[AD-P003522] 21 p3330 N84-31126
EVANS, C. A., JR.
Development and application of SIMS (Secondary Ion Mass Spectrometry) characterization techniques for the study of impurities and impurity motion in (HgCd)Te and CdTe
[AD-A140712] 17 p2619 N84-26759
EVANS, C. B.
Project DELUGE: A proposed mathematical model for the Holloman AFB test track simulated rainfield
[AD-A134891] 08 p1108 N84-17207
EVANS, D. D.
Thermal actuation of extinguishing systems
[PB84-177156] 16 p2478 N84-25886
EVANS, D. H.
Applications of through-flow theory 06 p0840 N84-15477
Trends in steam turbine design, testing and manufacturing 06 p0840 N84-15478
EVANS, D. L.
Use of coregistered radar, visible and IR images for geologic remote sensing 07 p0987 N84-16393
EVANS, D. W.
Real-time optical filtering system with spatial and temporal enhancement of visual information
[AD-D011106] 22 p3656 N84-33172
Varying bandpass of optical spatial filter by rotating mirrors having changing reflectivity
[AD-D011114] 22 p3656 N84-33173
EVANS, E. H.
Standard X-ray diffraction power patterns: Section 20 - data for 71 substances
[PB84-155191] 14 p2244 N84-24475
EVANS, G. A.
Multi-length arithmetic implementation and uses
[MR-179] 24 p3950 N84-35008
EVANS, G. E.
Development of scanning dipole array
[AD-P003405] 19 p3014 N84-29109
EVANS, H.
High resolution bone mineral densitometry with a gamma camera
[NASA-TM-85386] 18 p2899 N84-28391
EVANS, H. E.
Inertial energy storage hardware definition study (ring rotor)
[NASA-CR-175271] 10 p1529 N84-20015
EVANS, J. C., JR.
Double beta decay: Recent developments and projections
[DE84-000476] 04 p0598 N84-13944
EVANS, J. E.
Neurophysiological bases of event-related potentials
[AD-A135263] 09 p1362 N84-18897
EVANS, J. L.
Numeric keyboard layout and computer menu selection
[BAE-BT-11969] 13 p2023 N84-23116
EVANS, J. M.
Response of the cardiovascular system to vibration and combined stresses
[AD-A142166] 19 p3066 N84-29450
EVANS, J. P.
Techniques in high-temperature resistance thermometry. 1: Construction of the NBS-design high temperature platinum resistance thermometer. 2: Toroidal resistor for high-temperature platinum resistance thermometers
[PB84-164110] 17 p2672 N84-27029
EVANS, J. S.
A model for reaction rates in turbulent reacting flows
[NASA-TM-85746] 14 p2110 N84-23650
EVANS, J. W.
Diffusion of gases in porous solids: Simulations and measurements
[DE84-004146] 10 p1494 N84-19771
Electrochemistry Research Needs for Mineral and Primary Materials Processing: Report of Workshop
[PB84-192905] 20 p3159 N84-30062
Diffusion of gases in porous solids: Simulations and measurements
[DE84-010822] 20 p3185 N84-30241
EVANS, K., JR.
Tokamak fusion reactors with less than full tritium breeding
[DE83-016711] 03 p0446 N84-12936
Magnet design approach for pulsed Tokamak reactors
[DE84-005261] 11 p1738 N84-21341
EVANS, L. S.
Bibliography of research reports and publications issued by the Toxic Hazards Division, 1957-1982
[AD-A133637] 05 p0713 N84-14672
EVANS, M. B.
The role of simulation in the development and flight test of the HiMAT vehicle
[NASA-TM-84912] 12 p1769 N84-21537
EVANS, M. L.
The role of calcium in the gravitropic response of roots 09 p1352 N84-18834
Suppression of asymmetric acid efflux and gravitropism in maize roots treated with auxin transport inhibitors of sodium orthovanadate
[NASA-CR-173634] 17 p2740 N84-27395
EVANS, M. W.
Cost/schedule management for software development
[AD-P003591] 21 p3341 N84-31196
Software configuration management in a project environment
[AD-P003592] 21 p3341 N84-31197
EVANS, N.
Trends in Planetary Data Analysis. Executive summary of the Planetary Data Workshop
[NASA-CP-2333] 23 p3841 N84-34363
EVANS, N. R.
The NASA IUE data analysis facilities 24 p3982 N84-35227
EVANS, R. M.
High-sensitivity laser spectroscopy with atoms from a cooled helium jet
[DE84-000614] 04 p0540 N84-13554
EVANS, R. T.
Scale model testing for control system parameters of large structures
[AD-A135652] 09 p1273 N84-18313
EVANS, R. W.
Microwave studies of hot intracluster gas 02 p0306 N84-12011
EVANS, S. J.
The 60-GHz gyrotron development program
[DE83-012922] 02 p0214 N84-11402
First 200 kW CW operation of a GHz gyrotron
[DE84-004573] 10 p1498 N84-19794
EVANS, W. D.
The 3-10 keV and 0.1- to 2-MeV observations of 4 gamma-ray bursts
[DE84-001334] 05 p0766 N84-15022
Two probable optical flashes from gamma-ray bursters
[NASA-TM-86126] 21 p3526 N84-32937
Three precise gamma-ray burst source locations
[NASA-TM-86132] 22 p3680 N84-33332
EVANS, W. J.
Skeletal muscle metabolism of sea-level natives following short-term high-altitude residence
[AD-A139323] 15 p2380 N84-25284
EVARTS, E. V.
Neurophysiological approaches to higher brain functions
[PB84-175769] 17 p2746 N84-27434
EVCES, C. R.
Vehicle concept for a robotic missile launcher
[AD-A141297] 18 p2802 N84-27782
EVDOKIMENKO, O. A.
Different sensitivity of s- and d-electron energy levels to a change in lattice parameters in transition metals
[BLL-M-35116-(5828.4)] 01 p0151 N84-10996
EVELAND, J. D.
The process of technological innovation: Reviewing the literature 16 p2586 N84-26466
EVEN, U.
Dynamics of large molecules and molecular clusters
[AD-A143386] 22 p3560 N84-32542
EVERETT, J. R.
Contribution of LANDSAT-4 thematic mapper data to geologic exploration
[E84-10021] 02 p0237 N84-11557
Evaluation of LANDSAT-D Thematic Mapper performance as applied to hydrocarbon exploration
[E84-10154] 19 p3038 N84-29275

Evaluation of LANDSAT-4 Thematic Mapper data as applied to geologic exploration: Summary of results
20 p3213 N84-30412

EVERETT, L. J.
Modeling and robust control of a compliant robotic manipulator via the finite element method
11 p1703 N84-21102

EVERETT, R. A., JR.
Repeatability of mixed-mode adhesive debonding
[NASA-TM-85753] 10 p1464 N84-19565

EVERHART, J. L.
Potential flow through a cascade of alternately displaced circular bodies: The rod-wall wind tunnel boundary conditions
[NASA-TM-85750] 11 p1601 N84-20487

EVERS, R.
Broadband communication with fiber optic channels
[BMFT-FB-T-83-118] 02 p0211 N84-11377

EVERSOLL, D. A.
Inventory of geothermal resources in Nebraska
[DE84-009679] 20 p3229 N84-30518

EVERSTINE, G. C.
Finite element analysis of fluid-filled elastic piping systems 06 p0859 N84-15600
Measurement of structural damping using the random decrement technique 10 p1514 N84-19915
Finite element prediction of acoustic scattering and radiation from submerged elastic structures
22 p3610 N84-32874

EVERTSE, J. H.
Upper bounds for the numbers of solutions of diophantine equations
[MATH-CENTRE-TRACTS-168]
21 p3474 N84-32019

EVIATAR, A.
Saturn's outer magnetosphere
[NASA-TM-85105] 01 p0165 N84-11084

EWALD, B.
Modification of wing design to increase lift for future Airbus derivatives (NEW)
[BMFT-FB-W-83-005] 02 p0178 N84-11167
Civil component program Integrated Wing-Engine-System (IFAS), phase 1
[BMFT-FB-W-83-018] 10 p1429 N84-19343

EWALD, K. W.
Lufthansa German Airlines experience with cabin and cockpit windows of Boeing 707, 727, 737, 747, Douglas DC10 and Airbus A300
[AD-P003226] 17 p2596 N84-26639

EWAN, B. C. R.
Problem independent numerical simulation of two-phase flow in combustors 15 p2294 N84-24768

EWASHINKA, J. G.
Results of electric-vehicle propulsion system performance on three lead-acid battery systems
[NASA-TM-83657] 15 p2361 N84-25166

EWBANK, P.
Optical thickness as related to pollutant episodes and the concentration of visibility degrading pollutants
[NASA-CR-175203] 10 p1531 N84-20028

EWELL, R. C.
The design and production of a procedure training aid using the procedure learning format and the computer automated page layout (PLA) routine
[AD-A139988] 15 p2383 N84-25292

EWING, C. T.
Dry chemical development: A model for the extinction of hydrocarbon flames
[AD-A137952] 11 p1628 N84-20656

EWING, M. S.
Free vibration analysis with beam models which include bending warping, torsion warping and anticlastic bending effects 11 p1667 N84-20874

EWING, T. E.
Continuity and internal properties of Gulf Coast sandstones and their implications for geopressured fluid production
[DE84-004396] 10 p1526 N84-19996

EWING, W. H.
A comparison of two extended Kalman filter algorithms for air-to-air passive ranging
[AD-A136838] 10 p1426 N84-19323

EXNER, H. E.
Ostwald ripening, interfacial energies and diffusion coefficients in monotectic systems
17 p2613 N84-26727

EXTON, R. J.
Molecular velocimetry using stimulated Raman spectroscopy
[NASA-TM-85808] 15 p2405 N84-25433

EYCHENNE, H.
Quality control in large systems development phase
[SNIAS-832-422-102] 15 p2346 N84-25074

EYCHNER, D. M.
Estimation of the ridge constant: An approach based on the condition index
[DE83-017955] 03 p0428 N84-12805

EYDELAND, A.
Globally convergent procedures for solving nonlinear minimization problems
[AD-A142905] 21 p3473 N84-32009

EYLON, D.
Method to reveal microstructures in single phase alloys
[AD-D011094] 22 p3555 N84-32512
Method for refining microstructures of prealloyed powder metallurgy titanium articles
[AD-D011162] 23 p3718 N84-33570
Method for refining microstructures of blended elemental powder metallurgy titanium articles
[AD-D011177] 23 p3718 N84-33571

EYRE, D.
Splines and the Galerkin method for solving the integral equations of scattering theory
[CSIR-TWISK-267] 04 p0586 N84-13873
Splines and a three-body separable expansion for scattering problems
[CSIR-TWISK-291] 07 p1059 N84-16863

EYRING, E. M.
Fourier transform photoacoustic spectroscopy
[DE84-010216] 19 p2990 N84-28946

EYSSA, Y. M.
Magnetic suspension and balance system study
[NASA-CR-3802] 20 p3132 N84-29888

EYTH, J., JR.
Crew station evaluation in a dynamic flight simulation facility 06 p0774 N84-15069

EZEKIEL, S.
Quantum optics and photonics
22 p3682 N84-33344

EZELL, C.
A restraint chair with rowing-like movement for exposing exercising nonhuman primates to microwave irradiation
[AD-A132047] 03 p0413 N84-12705

EZELL, E. C.
On Mars: Exploration of the red planet, 1958 - 1978
[NASA-SP-4212] 24 p3990 N84-35248

EZELL, L. N.
On Mars: Exploration of the red planet, 1958 - 1978
[NASA-SP-4212] 24 p3990 N84-35248

EZHOV, G. I.
Influence of the base metal on the wear-resistance of high-strength cast iron
[BLL-M-35504-(5828.4)] 12 p1796 N84-21712

EZRA, C. E.
In-flight absolute radiometric calibration of the thematic mapper
[E84-10044] 04 p0552 N84-13637
In-flight absolute radiometric calibration of the thematic mapper
[E84-10064] 06 p0865 N84-15633
In-flight absolute radiometric calibration of the Thematic Mapper 13 p2004 N84-23002
In-flight absolute radiometric calibration of the Thematic Mapper 20 p3208 N84-30383

EZZAT, H. A.
Elastic-plastic fracture of cylindrical shells containing part-through circumferential cracks
03 p0391 N84-12553

F

FABBRI, M.
A cluster model for two-dimensional disordered systems
[INPE-2895-PRE/414] 02 p0298 N84-11953
The hydrogen molecule for a two-dimensional system
[INPE-2981-PRE/443] 07 p1071 N84-16958
Clustering model in n-doped many-valley semiconductors
[INPE-2911-PRE/424] 07 p1079 N84-17015
Impurity states in 2- and 3-dimensional disordered systems
[INPE-3066-PRE/483] 16 p2559 N84-26416
Impurity cluster states in disordered 2-dimensional systems: A self-consistent Hartree-Fock-Roothaan model
[INPE-3223-PRE/574] 24 p3966 N84-35115

FABER, D. E.
An investigation of experimental techniques for obtaining particulate behavior in metallized solid propellant combustion 13 p1947 N84-22659
An investigation of experimental techniques for obtaining particulate behavior in metallized solid propellant combustion
[AD-A141044] 18 p2808 N84-27826

FABER, K. T.
Micro and macro mechanics of fracture in ceramics
[AD-A137290] 10 p1465 N84-19572

FABER, V.
Supraconvergence and functions that sum to zero on cycles
[DE84-013889] 23 p3818 N84-34210

FABIAN, A. C.
Models of the hard X-ray spectrum of AM Herculis and implications for the accretion rate
[NASA-TM-86045] 08 p1242 N84-18123

FABRE, J.
Experimental investigation of the effect of electrets on bone healing 23 p3809 N84-34150

FABRY, R. S.
Design and performance of a distributed relational data base system
[AD-A142177] 19 p3073 N84-29495

FACCIA, G.
AMIX: An automated system for handling error notification data 05 p0722 N84-14734

FACEMIRE, B.
Determination of the succinonitrile-benzene and succinonitrile-cyclohexanol phase diagrams by thermal and UV spectroscopic analysis
[NASA-TM-82581] 16 p2462 N84-25778

FACEMIRE, B. R.
Separation processes during binary monotectic alloy production
[NASA-TM-82579] 15 p2295 N84-24773

FACEMIRE, J. L.
A specification technique for the common APSE (Ada programming support environments) interface set
[AD-A140889] 17 p2754 N84-27479

FACINELLI, W. A.
Modeling and simulation of lead-acid batteries for photovoltaic systems 17 p2722 N84-27326

FACKLER, O.
Calculation of molecular final states and their effect on a precision neutrino mass experiment
[DE84-011071] 20 p3295 N84-30921

FADDOUL, J. R.
Examination, evaluation and repair of laminated wood blades after service on the Mod-OA wind turbine
[NASA-TM-83483] 01 p0102 N84-10664

FADEYEV, A. V.
Laser screens of ZnSe produced by bridgeman method 12 p1787 N84-21658

FADZIL, M. B.
Identification of a nonlinear difference equation model of an industrial diesel generator
[RR-246] 18 p2926 N84-28559

FAEHL, R. J.
Simulation studies on a novel betatron injection scheme
[DE84-001337] 04 p0598 N84-13946

FAELKER, J.
The International Ultraviolet Explorer (IUE): Six years in orbit 24 p3981 N84-35224

FAELTHAMMAR, C. G.
Magnetic field aligned electric fields
[TRITA-EPP-83-07] 12 p1922 N84-22521
MHD dynamo action in space plasmas
[TRITA-EPP-84-06] 18 p2934 N84-28610

FAETH, G. M.
A theoretical and experimental study of turbulent particle-laden jets
[NASA-CR-168293] 04 p0485 N84-13187
Combustion of agglomerates formed by carbon slurry fuels
[AD-A136390] 09 p1278 N84-18345
Predictions of spray combustion interactions
11 p1609 N84-20532
The structure of evaporating and combusting sprays: Measurements and predictions
[NASA-CR-173778] 19 p3021 N84-29155
A theoretical and experimental study of turbulent nonevaporating sprays
[NASA-CR-174668] 20 p3130 N84-29877
A theoretical and experimental study of turbulent evaporating sprays
[NASA-CR-174760] 22 p3536 N84-32390

FAGAN, T. J.
Advanced electric heat pump dual-stroke compressor and system development
[DE84-007916] 20 p3185 N84-30239

FAGEN, E. A.
Transport properties of amorphous silicon-germanium alloy films. Volume 2: Appendices
[DE84-006879] 15 p2414 N84-25495
Transport properties of amorphous silicon-germanium alloy films. Volume 1: Technical summary
[DE84-006878] 15 p2414 N84-25497

FAGES, R.
A set function approach to cluster analysis
09 p1412 N84-19237

FAGG, M. F.
Analysis and selection of a remote docking simulation visual display system
[NASA-CR-171148] 23 p3698 N84-33432
FAGIN, S. W.
Paleogeography and tectonics of the Redding section, Eastern Klamath Belt, Northern California
23 p3796 N84-34070
FAGNONI, H.
Thermal control of multimission battery compartment of SPOT 10 p1445 N84-19440
FAGOT, M. C.
Deep-Towed Array Geophysical System (DTAGS): A hardware description
[AD-A142970] 21 p3444 N84-31851
FAGUNDO, F. E.
Centrifugal scaling laws for ground launch cruise missile shelter
[AD-A141572] 19 p2969 N84-28818
FAHR, H. J.
Theory of interstellar medium diagnostics
03 p0472 N84-13108
The ISPM interstellar neutral-gas experiments
09 p1261 N84-18234
FAHRBACH, E.
Transport processes in the central equatorial Atlantic and their influence on the heat content
[REPT-113] 07 p1041 N84-16752
FAHRENSCHON, K.
Development of large area Multi-coloured Multifunctional Displays (MFA) in liquid crystal technology
[BMFT-FB-T-83-096] 02 p0300 N84-11970
FAHY, F. J.
Techniques and instrumentation for the measurement of transient sound energy flux
[ISVR-TR-122A] 15 p2404 N84-25427
FAIGEN, I. M.
Reflector antennas with low sidelobes, low cross polarization, and high aperture efficiency
[NASA-CR-174670] 21 p3383 N84-31464
FAILLA, C. C.
NAHBE (Naval Academy Heat Balanced Engine) m151 retrofit evaluation
[AD-A133475] 06 p0853 N84-15559
FAILLI, R.
Evolution of public land mobile telephone systems in Europe 10 p1477 N84-19649
Development of the public mobile radio services in Italy 10 p1477 N84-19651
FAILOR, B. H.
TMX-U experimental results
[DE83-016790] 03 p0449 N84-12955
FAINBERG, J.
Radio evidence for interplanetary streamers in the range 10-170 solar radii 03 p0471 N84-13103
FAINTER, R. G.
GENIE: A computer-based task for experiments in human-computer interaction
[AD-A137473] 10 p1553 N84-20181
FAINTICH, M. B.
DMA (Defense Mapping Agency): The digital revolution
[AD-A142787] 21 p3431 N84-31767
FAIR, R. B.
The Microelectronics Center: A new force in cooperative VLSI signal processing research
09 p1403 N84-19166
FAIRALL, R. L.
Multiple launch rocket system: A case study of manpower, personnel and training requirements determination
[AD-A137644] 11 p1620 N84-20606
FAIRBAIRN, J.
The development of a multi-axis hydraulic vibration test facility at the National Engineering Laboratory, Scotland
03 p0339 N84-12200
FAIRBANK, W. M.
Background information on the He(3) nuclear gyroscope
[AD-A130755] 01 p0084 N84-10545
FAIRBANK, W., JR.
Sensitive collinear laser spectroscopy on fast atom and ion beams
[DE84-003403] 10 p1456 N84-19512
FAIRBANKS, E. S.
High power neutral beam heating on Doublet 3
[DE84-012471] 21 p3501 N84-32186
FAIRCHILD, P. D.
Overview of DOE-sponsored heat pump research
[DE84-007561] 15 p2333 N84-25011
FAIRCHILD, P. W.
Raman spectroscopy measurements of flame quenching in a duct-type crevice, appendix B
[DE84-009328] 21 p3362 N84-31329
FAIRES, L. M.
Studies of an inductively coupled plasma with a Fourier-transform spectrometer
[DE83-014194] 01 p0151 N84-10991
Fourier transform and polychromator studies of the inductively coupled plasma
[DE84-003975] 08 p1233 N84-18059
Line width and line shape analysis in the inductively coupled plasma by high resolution Fourier transform spectrometry
[DE84-004358] 10 p1457 N84-19513
FAIRMAN, R. D.
LEC GaAs for integrated circuit applications
[NASA-CR-173267] 07 p1079 N84-17014
FALARSKI, M. D.
Aerodynamic characteristics of the 40- by 80/80- by 120-foot wind tunnel at NASA Ames Research Center
[NASA-TM-85946] 14 p2104 N84-23622
FALCIASECCA, G.
Spread spectrum transmission. Part 1: General characteristics
[FUB-49-1982-PT-1] 06 p0826 N84-15385
Geographic operators for management of a data base for frequency planning 10 p1476 N84-19646
FALCO, C. M.
Artificially layered superconductors
[DE84-002768] 07 p1082 N84-17037
Structural and electronic properties of artificial metallic superlattices
[DE84-002771] 12 p1915 N84-22477
FALCONE, R. W.
Laser techniques for extreme-ultraviolet spectroscopy
[DE83-014834] 02 p0227 N84-11486
FALCONER, J. L.
Promoter modifications of catalytic activity and selectivity
[DE84-003179] 07 p0970 N84-16287
Degradation of evaporated aluminum films for solar reflections
[DE84-005341] 10 p1530 N84-20021
FALES, C. L.
Image-plane processing for improved computer vision
12 p1904 N84-22404
FALK, L.
Report from the URSI Commission F Symposium on Wave Propagation and Remote Sensing
[FOA-C-30340-E2] 08 p1179 N84-17682
Diffraction of a line sink field
[FOA-C-30353-E] 15 p2320 N84-24931
Backscatter from a corner reflector close to a two-antenna radar system
[FOA-C-30355-E1] 18 p2830 N84-27968
Near field effects in radiometer measurements
[FOA-C-30357-E1] 18 p2830 N84-27969
FALKE, W. L.
Copper-manganese-base silverless brazing systems
[PB83-250100] 04 p0545 N84-13593
FALKEL, J. E.
Upper body exercise performance: Comparison between women and men
[AD-A142330] 19 p3066 N84-29454
Upper to lower body muscular strength and endurance ratios for women and men
[AD-A143821] 23 p3811 N84-34168
FALKOVICH, S. Y.
USSR rept.: Electronics and electrical engineering. Radar signal reception against background of random interference
[JPRS-UEE-84-001] 07 p0986 N84-16389
FALL, L.
Report of Prochloron research
10 p1544 N84-20121
FALL, R.
Report of Prochloron research
10 p1544 N84-20121
FALLER, J. E.
The JILA (Joint Institute for Laboratory Astrophysics) portable absolute gravity apparatus
[AD-A132199] 05 p0684 N84-14495
FALOMO, R.
Multifrequency observations of active galactic nuclei
24 p3972 N84-35152
UV observations on the variable quasar PG 1351+64
24 p3972 N84-35153
FALSTRUP, D.
Double layered tailorable advanced blanket insulation
[NASA-CR-166600] 23 p3723 N84-33591
FALTEMIER, J. L.
Effect of hydrodynamic flow on the morphology of electrodeposited zinc
[DE84-001816] 05 p0651 N84-14281
FALTENS, A.
Power-amplification of a heavy-ion beam in an induction linac
[DE84-002911] 08 p1231 N84-18042
A high current heavy ion beam transport experiment at LBL
[DE84-009225] 20 p3294 N84-30912
FALTER, C. M.
In-stream distribution and hydraulic and ecological effects of volcanic ash from Mount St. Helens eruption
[PB84-169382] 20 p3230 N84-30526
FALZON, P.
Understanding a technical language: A schema-based approach
[NASA-TM-85868] 19 p3070 N84-29478
FAN, J.
A comprehensive numerical study and experimental verification of endochronic plasticity
06 p0856 N84-15579
FAN, J. C. C.
High efficiency, low cost thin GaAs solar cells
[NASA-CR-168265] 01 p0102 N84-10662
High-quality silicon films prepared by zone-melting recrystallization 18 p2939 N84-28638
Optimal design of high-efficiency single-junction and tandem concentrator space cells at 80 deg C and 100 SUNS 19 p3046 N84-29326
High-efficiency Conventional Cells Workshop
19 p3049 N84-29345
Electronic properties of grain boundaries in GaAs: A study of oriented bicrystals prepared by epitaxial lateral overgrowth
[AD-A144358] 24 p3967 N84-35118
FAN, J. L.
Thermal degradation studies of segmented thermoplastic elastomers
[AD-A143954] 23 p3724 N84-33600
FAN, Y. A.
Preliminary study of LANDSAT imageries of Taiwan and its surroundings 24 p3956 N84-35050
FANALE, F. P.
A generalized behavioral model for rotating short period comets with spectral orbital elements and axial orientation 13 p2075 N84-23451
Properties of simulated comet mantle
13 p2076 N84-23452
A possible source for the Martian circumpolar dune material 13 p2082 N84-23490
FANCHER, M. F.
Nonadiabatic model wall effects on transonic airfoil performance in a cryogenic wind tunnel
14 p2096 N84-23579
FANCONI, B. M.
Polymer Science and Standards Divisions report, 1983
14 p2130 N84-23773
FANG, A.
Theoretical and experimental studies of the electronic structure of the Mo3(Micro3-0)(Micro3-OR)(Micro-OR)3(OR)6 type of triangulo metal atom cluster compound
[AD-A133516] 06 p0915 N84-15951
FANG, H. S.
Application of compartmentalization/air lock of simulated pressurized aircraft and tolerance of lung to rapid decompression in different laboratory animals
24 p3957 N84-35053
FANG, K. T.
Relationships among classes of spherical matrix distributions
[AD-A143215] 22 p3648 N84-33128
FANG, K. Y.
Synthesis of multiple-valued logic functions based on a modular design approach
[AD-P002378] 14 p2195 N84-24169
FANG, P. H.
Microcrystalline silicon growth for heterojunction solar cells
[NASA-CR-173751] 18 p2869 N84-28215
Microcrystalline silicon growth for heterojunction solar cells
[NASA-CR-173750] 18 p2869 N84-28216
FANG, T. M.
Multidipole magnetic fields for plasma confinement
[DE83-016014] 03 p0450 N84-12960
FANG, Z.
Journal of engineering thermophysics (selected articles)
[AD-A139070] 15 p2415 N84-25501
FANNIN, A. A., JR.
Nuclear magnetic resonance studies of molten salts
[AD-A141751] 19 p2988 N84-28935
FANNING, U.
Separation processes during binary monotectic alloy production
[NASA-TM-82579] 15 p2295 N84-24773
FANOUS, F. S.
Simplified methods for the inelastic analysis of stiffened shells
[DE83-016518] 02 p0232 N84-11525

FANSELOW, J. L.
Observation model and parameter partials for the JPL VLBI parameter estimation software MASTERFIT-V1.0
[NASA-CR-173455] 12 p1879 N84-22245

FANTER, D. L.
Aging of polymeric materials
[AD-A132250] 04 p0506 N84-13318

FARAFONOV, V. M.
Emission effects of memory in rocks
17 p2705 N84-27227

FARAGGI, D.
Use of simultaneous autoregressive models in balanced incomplete block and lattice square designs
[AD-A141661] 19 p3086 N84-29590

FARAJI, S.
Method of initial functions for thick shells
13 p2003 N84-22996

FARASSAT, F.
Rotor noise prediction technology: Theoretical approach 19 p3098 N84-29678

FARBER, M.
Mass spectrometric decomposition studies on several azido and nitrato polymers, thermal plasticizers and novel nitramines
[AD-A134636] 08 p1137 N84-17398

FARBER, N.
Improved dynamic models for air combat analysis
[TAE-483] 06 p0905 N84-15876

FAREED, A.
Microstructure and properties of P/M tool steels
[AD-A130980] 02 p0194 N84-11259

FARFAN, H. F.
Cervical spline analysis for ejection injury prediction
[AD-A131081] 01 p0114 N84-10739

FARGHER, J. S. W., JR.
New initiatives in international programs
[AD-P002813] 13 p2060 N84-23359

FARH, J. L.
The effects of task variability, sensory reinforcement, and monetary reinforcement on performance, satisfaction, and intrinsic motivation 17 p2769 N84-27584

FARHAT, N. H.
High resolution 3-d tomographic imaging by wavelength and polarization diversity
[AD-A134101] 05 p0747 N84-14903

FARINA, A.
Optimum and sub-optimum processors for multistatic radar systems 06 p0906 N84-15885
The maximum entropy method and its application to clutter cancellation 06 p0907 N84-15890
Introduction to multiradar tracking systems
17 p2653 N84-26964

FARINAZZO, E.
Design of a wind tunnel afterbody model for the development of a transonic combat aircraft
14 p2098 N84-23591

FARINETTI, A.
Experimental measurements of traffic and radio disturbances in Ente Nazionale per l'Energia Elettrica's (ENEL) mobile radio networks 10 p1478 N84-19657

FARIOLI, M.
Advanced ND techniques for composite primary structures 01 p0034 N84-10216

FARKAS, Z. D.
Transient high-field behavior of niobium superconducting cavities
[DE83-011852] 01 p0068 N84-10443
High-gradient, pulsed operation of superconducting niobium cavities
[DE84-012498] 20 p3311 N84-31030

FARLEY, D. T.
Radar interferometer measurements
17 p2688 N84-27114
Capabilities and limitations of the Jicamarca radar as an MST radar 17 p2690 N84-27130
Pulse compression using binary phase codes
17 p2692 N84-27145
School of Electrical Engineering.
17 p2694 N84-27156
Coherent integration 17 p2695 N84-27162

FARLEY, J. F.
Modern flight instrument displays as a major military aviation flight safety weakness 06 p0778 N84-15098

FARLOW, G.
Ion beam modification of ceramics
[DE84-003302] 08 p1138 N84-17403
Ion implantation, ion beam mixing and annealing studies of metals in Al2O3, SiC and Si3N4
[DE84-012336] 20 p3157 N84-30052

FARMER, C. B.
Effects of systematic errors on the mixing ratios of trace gases obtained from occulation spectra
[NASA-CR-175371] 08 p1231 N84-18046

FARMER, J. C.
Fast, self-nulling spectroscopic ellipsometer: Instrumentation and application, revision
[DE83-015531] 04 p0605 N84-13994
Effect of Rhodamine-B on the electrodeposition of lead on copper
[DE84-005535] 11 p1634 N84-20683
Automatic, self-nulling, spectral scanning ellipsometer: Software for the LSI-11 data acquisition system
[DE83-015007] 11 p1709 N84-21139
Automatic, self-nulling, spectral scanning ellipsometer: Software for the LSI-11 data acquisition system
[LBL-15525] 16 p2543 N84-26320

FARMER, J. K.
The prediction of electrochemical reactivities from contemporary theory: Some comparisons with experiment
[AD-A142406] 20 p3147 N84-29985

FARMER, M. G.
Model mount system for testing flutter
[NASA-CASE-LAR-12950-1] 24 p3856 N84-34448

FARMER, R. E.
MATE standardization
[AD-P003587] 21 p3340 N84-31192

FARMER, W. M.
Measurement of spray combustion processes
11 p1609 N84-20530

FARMWALD, P. M.
The S-1 Mark IIA supercomputer
[DE84-012374] 20 p3267 N84-30732

FARNADY, F.
Grinding kinetics and equilibrium states
[NASA-TM-77430] 19 p3002 N84-29025

FARNOCHI, A. J.
Evaluation of army remotely piloted vehicle mission payload operator performance in simulated artillery missions
[AD-A137602] 11 p1703 N84-21103

FARNSWORTH, A. V., JR.
Beam-target interaction of intense ion beams: Theory and experiment
[DE83-018264] 03 p0436 N84-12858

FARNUM, B.
Cleavage of aromatic carbon-carbon bonds
[DE84-010161] 22 p3543 N84-32432

FARNUM, D. J.
Study of defects produced in tungsten by 800-MeV protons using field-ion microscopy
[DE84-001359] 04 p0613 N84-14048

FARNWORTH, B.
An evaluation of a hydrophobic silica pigment used as a water-repellent finish
[AD-A137389] 10 p1466 N84-19575

FAROQUE, M.
Evaluation of gas-cooled pressurized phosphoric acid fuel cells for electric utility power generation
[NASA-CR-168298] 15 p2362 N84-25169
Full scale phosphoric acid fuel cell stack technology development
[NASA-CR-174660] 16 p2518 N84-26165

FAROUKI, R. A. M. T.
Simulations of galaxy mergers
11 p1757 N84-21470

FARQUHARSON, S.
Observation of surface-enhanced Raman scattering for transition-metal hexaammine cations at the outer Helmholtz plane: Implications for enhancement mechanisms at electrochemical interfaces
[AD-A139045] 13 p1956 N84-22719
Surface-enhanced Raman spectroscopy of electrochemically characterized interfaces. Transition-metal isothiocyanate adsorbates at silver adsorbates
[AD-A142407] 20 p3148 N84-29986
Surface-Enhanced Raman Scattering for redox-active adsorbates: Pentaammineosmium (3)/(2) and Pentaammineruthenium (2) containing nitrogen heterocycle ligands
[AD-A142418] 20 p3148 N84-29987

FARR, E.
Studies in fin-line antenna design for phased array applications
[AD-A135255] 08 p1144 N84-17444

FARR, T. G.
Use of radar image texture in geologic mapping
07 p0988 N84-16402

FARRAR, A.
Assessment of satellite power flux-density limits in the 2025-2300 MHz frequency range, part 1
[PB84-129402] 09 p1305 N84-18532

FARRAR, D. R.
EPR spectroscopy of thermally initiated free radicals in RDX
[AD-A133976] 05 p0646 N84-14251

FARRARA, R. A.
Cadmium plating versus other coatings to prevent corrosion
[AD-A142504] 20 p3153 N84-30022

FARRAZ-MELLO, S.
A numerical averaging procedure for the Galilean Satellites system 19 p3118 N84-29816

FARRELL, J. A.
PATH: A lumped-element beam-transport simulation program with space charge
[DE84-001330] 04 p0599 N84-13953
White Horse program review, FY 82
[DE84-002290] 05 p0745 N84-14896

FARRELL, K.
Comparison of damage microstructures in neutron-irradiated vanadium and iron
[DE83-017189] 03 p0354 N84-12304
Ion bombardment damage in a modified Fe-9Cr-1Mo steel
[DE84-014288] 22 p3557 N84-32522

FARRELL, R.
Integrated Cuing Requirements (ICR) study: Feasibility analysis and demonstration study
[AD-A131039] 01 p0117 N84-10758
Integrated Cuing Requirements (ICR) study: Demonstration data base and users guide
[AD-A131119] 03 p0459 N84-13019
Learning to program in LISP
[AD-A132611] 05 p0728 N84-14781

FARRELL, R. A.
Automatic combustor controller development and liquid-fuel combustor design program
[AD-A130368] 01 p0052 N84-10335
The structure of the internal wave Mach front generated by a point source moving in a stratified fluid
[AD-A133775] 05 p0680 N84-14470
Calculation procedures for variational, Born and exact solutions for electromagnetic scattering from two randomly separated dielectric Rayleigh cylinders
[AD-A138543] 13 p1982 N84-22865

FARRELL, W. E.
Surface wave path corrections, deterministic discrimination and body wave attenuation
[AD-A133574] 06 p0878 N84-15714

FARRELLY, B. A.
Application of remote sensing for studies, mapping and forecasting of eddies on the Norwegian continental shelf
03 p0399 N84-12605
Remote sensing of the marginal ice zone during Marginal Ice Zone Experiment (MIZEX) 83
23 p3772 N84-33910
Eddy studies during Marginal Ice Zone Experiment (MIZEX) 83 by ship and remote sensing observations
23 p3772 N84-33914
Mapping the Fram Strait ice edge using AVHRR imagery and NOAA satellite orbital data
23 p3773 N84-33915

FARREN, J.
Effects of space radiation on advanced semiconductor devices. Part 2: Cosmic ray simulation experiments for the study of single event upsets in CMOS technology
[G-2745-VOL-2] 08 p1153 N84-17506

FARRER, D. N.
Animal models for the assessment of laser induced eye damage
[AD-P003293] 18 p2908 N84-28443

FARRILL, T. G.
Marine Air Traffic Control And Landing System (MATCALS) investigation
[AD-A130309] 01 p0007 N84-10045

FARRINGTON, G.
Transport behavior of multivalent beta aluminas
[AD-A142968] 21 p3370 N84-31382

FARRINGTON, G. C.
Proton transport in beta alumina
11 p1739 N84-21345
Transport behavior of multivalent beta aluminas
11 p1743 N84-21370
Proton transport in beta alumina
11 p1743 N84-21371
Nd-3+ Beta prime prime alumina platelet laser
[AD-A142797] 21 p3409 N84-31621

FARROW, J. E.
Computer-based transmission monitor and control system
[PB84-202068] 22 p3639 N84-33069

FARROW, R. F. C.
Investigation of the MBE growth of InSb and novel quantum well structures
[AD-A144151] 24 p3967 N84-35117

FARRUKH, U.
Development of a global model for atmospheric backscatter at CO2 wavelengths
24 p3924 N84-34838

FARRY, K. A.
Distributed processing and fiber optic communications in air data measurements 02 p0169 N84-11110
FARWELL, F. T., JR.
An analysis of coherent digital receivers in a jamming environment
[AD-A144441] 24 p3895 N84-34667
FARYNSKI, A.
A diode model of high energy particle emission in the plasma focus device 10 p1582 N84-20368
FASICZKA, R.
Horizontal cylindrical vessels supported by saddles subjected to vertical and lateral force fields 22 p3608 N84-32858
FASSEL, V. A.
Atmospheric-pressure argon afterglows as a detector for gas chromatography
[DE83-017895] 03 p0351 N84-12282
FATHIMULLA, M. A.
Surface acoustic wave/silicon monolithic sensor/processor
[NASA-CR-174541] 01 p0056 N84-10366
FATKIN, L. T.
Risk-taking performance of military personnel: Sex differences and practice effects
[AD-P003262] 18 p2906 N84-28429
FATTI, L. P.
Estimation of the Manova eigenvalues under the random effects model
[CSIR-TWISK-271] 04 p0587 N84-13877
Variable selection in heteroscedastic discriminant analysis
[CSIR-TWISK-283] 13 p2031 N84-23171
FATTINGER, V.
Problems encountered in connection with the removal of small concentrations of noxious gases by the use of liquid absorbents
[BLL-OA-TRANS-3182-(6196.3)] 09 p1277 N84-18337
FAULK, S. R.
Interface specifications for the SCR (A-7E) application data types module
[AD-A132717] 05 p0729 N84-14785
FAULKNER, M. G.
Mathematical model of electrostatic precipitation for the Texas Instruments Programmable 59 calculator
[PB83-261669] 04 p0560 N84-13695
Mathematical model of electrostatic precipitation (revision 3). Volume 1: Modeling and programming
[PB84-212679] 22 p3549 N84-32469
Mathematical model of electrostatic precipitation (revision 3). Volume 2: User's manual
[PB84-212687] 22 p3549 N84-32470
FAUST, N. L.
FEED (Field Exploitation of Elevation Data) evaluation
[AD-A131318] 02 p0277 N84-11812
FAUT, O. D.
Mechanism of lubrication by tricresylphosphate (TCP)
[NASA-TP-2274] 09 p1324 N84-18653
FAVIER, J. J.
Outline and evaluation of a spaceborne sodium heat pipe furnace with three compartments 10 p1440 N84-19407
Directional solidification of Al2-Cu-Al and Al3-Ni-Al eutectics during TEXUS rocket flight
[NASA-TM-77552] 24 p3883 N84-34602
FAVRE, J. P.
Residual curing stress of carbon-resin composites
[ONERA-RT-6/3521-M] 20 p3147 N84-29980
FAWCETT, N. C.
Photogalvanic cells driven by electron transfer quenching of excited singlet states
[DE84-009099] 15 p2330 N84-24991
FAWLEY, W. M.
Simulation of a high-gain tapered-wiggler free-electron laser
[DE84-001237] 04 p0540 N84-13557
Radially resolved simulation of a high-gain free electron laser amplifier
[DE84-003751] 08 p1165 N84-17585
FAY, S.
Shuttle on-orbit dynamics 08 p1110 N84-17216
FAYARD, L. D.
Water resources data for Florida, water year 1982. Volume 1B: Northeast Florida ground water
[PB84-161876] 14 p2170 N84-24001
Water resources data for Florida, water year 1982. Volume 1A: Northeast Florida surface water
[PB84-162338] 14 p2170 N84-24002
FAYMON, K. A.
Space power technology into the 21st Century
[NASA-TM-83690] 17 p2616 N84-26746
FAYN, I. V.
Shelf waves in presence of currents and stability of boundary currents 17 p2699 N84-27193
FEAR, J. S.
NASA broad-specification fuels combustion technology program 14 p2107 N84-23637
FEARICK, R. W.
Planar channeling radiation from relativistic positrons and electrons in LiF
[DE84-002800] 07 p1081 N84-17033
FEARING, P. D.
Vehicle concept for a robotic missile launcher
[AD-A141297] 18 p2802 N84-27782
FEARN, R. L.
A lifting surface computer code with jet-in-crossflow interference effects. Volume 1: Theoretical description
[NASA-CR-166524] 07 p0947 N84-16147
FEATHER, M. S.
Reuse in the context of a transformation based methodology
[AD-A141514] 19 p2984 N84-28910
Specification and transformation: Automated implementation
[AD-A141064] 19 p3074 N84-29505
FECHER, M. P.
TRISTEN/FRAM IV arctic ambient noise measurements
[AD-A140656] 17 p2763 N84-27549
FECHNER, W.
Simulations and theoretical implications of KMS transport experiments for 1.05 micron and 0.53 micron laser radiation
[DE84-000824] 04 p0542 N84-13570
FECHTIG, H.
The ISPM dust experiment 09 p1262 N84-18239
Chemical and isotopic measurements of micrometeoroids by secondary ion mass spectrometry (A0187-2) 15 p2276 N84-24670
FEDDER, J.
Electrostatic equations for large scale plasma simulation studies
[AD-A143640] 23 p3828 N84-34277
Temporal evolution of whistler growth in a cold plasma injection experiment
[NASA-CR-173972] 23 p3828 N84-34280
FEDDER, J. A.
Fast collisionless tearing in an anisotropic neutral sheet
[NASA-CR-175415] 11 p1737 N84-21331
MHD (Magnetohydrodynamic) simulation of a comet magnetosphere
[AD-A140208] 16 p2580 N84-26546
Finite temperature effects on the evolution of ionospheric barium clouds in the presence of a conducting background ionosphere
[AD-A143592] 23 p3798 N84-34082
FEDDERS, P. A.
Impurity and defect interactions in GaAs
[AD-A139592] 14 p2243 N84-24465
FEDERICO, A.
Speaker recognition: Example of execution of a phonic test
[FUB-55-1982] 10 p1483 N84-19690
FEDERICO, G.
The gaseous and plasma environment around space shuttle
[AD-A133900] 05 p0643 N84-14231
FEDERICO, P. A.
Computer-managed instruction: Individual differences in student performance
[AD-A139708] 15 p2382 N84-25286
Computer-managed instruction: Stability of cognitive components
[AD-A139881] 15 p2383 N84-25291
Spatial performance, cognitive representation and cerebral procedures
[AD-A144095] 23 p3811 N84-34163
FEDI, F.
Statistic prediction techniques of rain attenuation starting from pluviometric statistics
[FUB-51-1982] 06 p0826 N84-15387
FEDIRKO, V. A.
Investigation of Bragg reflection of electromagnetic surface waves by diffraction grating 21 p3479 N84-32053
FEDONIN, A. I.
Estimation of sensitivity threshold in integrating analog-to-digital converters with averaging of readings 22 p3567 N84-32593
FEDOR, J. V.
Thermally induced spin rate ripple on spacecraft with long radial appendages
[NASA-TM-85058] 07 p0964 N84-16249
FEDOR, L. S.
The evolutionary trend in airborne and satellite radar altimeters 17 p2718 N84-27300
FEDORENKO, A. I.
Scattering of electromagnetic waves at edge of seminfinite dielectric layer embedded in ideally conducting half-space 18 p2822 N84-27919
FEDORENKO, G. M.
Problems of building turbogenerators with windings made of superconductors and pure metals
[AD-A137198] 10 p1485 N84-19710
Problems of technical electrodynamics (selected articles)
[AD-A140972] 18 p2833 N84-27985
FEDOROV, A. Y.
Structural-geomorphological interpretation of lineaments detected from space photographs and patterns of mineral distribution 19 p2977 N84-28871
FEDOROV, R. M.
Mathematical modeling of transient separation flow around circular cylinder 17 p2644 N84-26916
FEDOROV, S. A.
Control of seam formation in welding with a light beam 24 p3869 N84-34523
FEDOROV, V. M.
Structure and properties of granulated aluminum alloys containing transition metals 24 p3872 N84-34535
FEDOROVA, N. V.
Interpreting three-dimensional gravitational and magnetic anomalies 20 p3224 N84-30486
FEDOROVA, N. Y.
Highly porous powder-fiber composite materials 24 p3872 N84-34538
FEDOSEYEV, A. I.
Study of emission spectrum of tea CO2 lasers with intracavity absorber 21 p3486 N84-32094
FEDOTOV, S. I.
Television system for monitoring target position in laser thermonuclear fusion experiments 13 p1969 N84-22781
FEDOTOVA, O. Y.
Synthesis of polyamides from diamines of the fluorene series
[NASA-TM-77398] 10 p1451 N84-19476
FEDRA, K.
Environmental modeling under uncertainty: Monte Carlo simulation
[IIASA-RR-83-28] 15 p2365 N84-25192
FEDRO, A. J.
Theory of elementary excitations in intermediate valence materials
[DE84-003705] 07 p1083 N84-17044
FEDULOV, A. P.
Optimum dimensions of solid zirconium dioxide-base electrolyte in transducer of activity meter 08 p1234 N84-18064
FEDYAKIN, V.
Applications of academic research neglected by industry 01 p0158 N84-11044
FEE, D. C.
Solid-oxide fuel-cell performance
[DE83-017926] 03 p0368 N84-12396
Solid-oxide fuel cells
[DE83-017925] 04 p0527 N84-13469
Advanced fuel cell development
[DE84-008964] 18 p2834 N84-27994
FEERICK, B.
Engineering basis for selection of positron source material
[DE84-011772] 21 p3494 N84-32143
FEGEAS, R. G.
Land use and land cover digital data
[GS-CIRC-895-E] 10 p1525 N84-19987
FEHLAU, P. E.
Smarter radiation monitors for safeguards and security
[DE83-015259] 02 p0224 N84-11468
FEHLER, F.
Disorientation in helicopter flight 16 p2536 N84-26284
FEHLMANN, R.
Quasiconformal mappings with free boundary components 04 p0577 N84-13801
FEHRENBACH, W.
Investigation of electro-optical effects in liquid crystals for high information density over a wide temperature range
[BMFT-FB-T-84-120] 23 p3831 N84-34304
FEHRENBACHER, L. L.
Ceramic coatings for heat engine materials: Status and future needs
[DE84-003401] 10 p1468 N84-19590
FEHSE, W. H.
Outlook of lasers in space operations and navigation 24 p3904 N84-34722
FEICKERT, C. A.
Charge transfer cross-sections for N V and S III ions interacting with hydrogen atoms in astrophysical plasmas 02 p0307 N84-12014

FEIGELSON, R. S.
Preparation of infrared optic fibers using new materials
[AD-A132311] 04 p0604 N84-13988
Growth and evaluation of AgGaS2 and AgGaSe2 for infrared nonlinear applications
[NASA-CR-175185] 08 p1234 N84-18066
Materials for high-temperature thermoelectric conversion
[NASA-CR-173969] 23 p3786 N84-34011
Research and crystal growth on high dielectric constant materials for mm wave applications
[AD-A144412] 24 p3967 N84-35119

FEIGENBAUM, H.
Develop and test fuel cell powered on-site integrated total energy systems. Phase 3: Full-scale power plant development
[NASA-CR-168294] 04 p0557 N84-13672
Develop and test fuel cell powered on-site integrated total energy system
[NASA-CR-168239] 04 p0557 N84-13673

FEILMEIER, M.
Numerical mathematics by vector calculation: Theory and practical experiments 16 p2549 N84-26356

FEINBERG, B.
A 2-D skin-current toroidal-MHD-equilibrium code
[DE83-016916] 03 p0446 N84-12929

FEINGOLD, O.
Picking up an object from a pile of objects
[AD-A133631] 05 p0716 N84-14691

FEJER, J. A.
The HF-enhanced plasma line
05 p0635 N84-14180

FELBECK, D. K.
Influence of extended exposure in space on mechanical properties of high-toughness graphite-epoxy composite material (A0019) 15 p2271 N84-24637

FELBER, F. S.
Design of a 20-MJ coaxial generator
[DE83-014152] 01 p0073 N84-10481

FELCH, K.
The 60-GHz gyrotron development program
[DE83-012922] 02 p0214 N84-11402
Analysis of the output mode from 60 GHz, 200 kW pulsed and CW gyrotrons
[DE84-004586] 10 p1497 N84-19785
First 200 kW CW operation of a GHz gyrotron
[DE84-004573] 10 p1498 N84-19794
The 100 GHz, 1 MW, CW gyrotron study program
[DE84-005751] 12 p1813 N84-21819
60 GHz gyrotron development program
[DE84-006606] 13 p1987 N84-22899

FELD, Y. N.
Concerning power recovered by receiving antenna from incident field 22 p3566 N84-32584

FELDMAN, A. D.
Infiltration and soil moisture redistribution in HEC-1
[AD-A141626] 19 p3041 N84-29295

FELDMAN, H. A.
Naloxone does not affect ventilatory responses to hypoxia and hypercapnia in rats
[AD-A131836] 03 p0414 N84-12708

FELDMAN, H. D.
Control Data ICEM: A vendors IPAD-like system
12 p1890 N84-22309

FELDMAN, J. A.
Four frames suffice. A provisionary model of vision and space
[AD-A132359] 04 p0580 N84-13825

FELDMAN, L. A.
Creep of carbon yarns and composites at high temperature
[AD-A138143] 12 p1790 N84-21671

FELDMAN, L. J.
Protein and carotenoid synthesis and turnover in gravistimulated root caps 09 p1352 N84-18837

FELDMAN, M. J.
Advancement of remote technology: Past perspectives and future plans
[DE84-008517] 18 p2849 N84-26092
Advanced teleoperation in nuclear applications: Consolidated fuel reprocessing program
[DE84-011631] 20 p3197 N84-30303
Advancement of remote systems technology: Past perspectives and future plans
[DE84-011460] 20 p3196 N84-30309

FELDMAN, M. R.
Ultralight reactive metal foams produced as structural shapes in space: System design
18 p2801 N84-27777

FELDMAN, P. D.
Rocket and laboratory studies in aeronomy and astronomy
[NASA-CR-173272] 07 p1088 N84-17075

FELDMAN, P. S.
Conditions for two-cell structure in severe vortical storms
[AD-A138242] 17 p2734 N84-27381

FELDMAN, U.
Atomic data calculations for application to the diagnostics of Tokamak plasmas. FY 1982 report
[DE84-006132] 12 p1910 N84-22446
On the rate of energy input in thermal solar flares
[AD-A138345] 13 p2092 N84-23548
Method to estimate drag coefficient at the air/ice interface over drifting open pack ice from remotely sensed data 17 p2720 N84-27310
Measurements of high resolution spectra on the Omega laser at Rochester University
[DE84-012419] 20 p3195 N84-30290
Measurements of spatially resolved high resolution spectra of laser-produced plasmas
[DE84-012418] 20 p3305 N84-30995

FELDMAN, W. C.
Electron heating at interplanetary shocks
03 p0470 N84-13098
Plasma properties of driver gas following interplanetary shocks observed by ISEE-3 03 p0474 N84-13123
Whistler mode turbulence generated by electron beams in Earth's bow shock
[NASA-CR-173143] 07 p1034 N84-16707
Electron velocity distributions near collisionless shocks
[DE84-011352] 20 p3185 N84-30235

FELDMANN, R. S.
Multivariable digital flight control design of the X-29A
[AD-A140983] 18 p2796 N84-27745

FELDMEIER, D. C.
Empirical analysis of a token ring network
[AD-A138905] 13 p2030 N84-23164

FELDSHTEYN, Y. I.
Magnetic effect of quiet ring current
17 p2708 N84-27244
Diffuse auroral zone. Part 7: Dynamics of equatorial boundary in field of diffuse electron spill in evening sector 19 p2973 N84-28846

FELICI, F.
The Giotto mechanisms and their functions
09 p1294 N84-18459
Thermal design of the Giotto spacecraft
10 p1441 N84-19412
The Giotto thermal control shutter
10 p1444 N84-19435

FELKER, B.
Design and fabrication of circular and rectangular components for electron-cyclotron-resonant heating of tandem mirror experiment-upgrade
[DE84-003244] 07 p1078 N84-17010
Polarizing holographic reflector for Electron Cyclotron Resonant Heating (ECRH) on the Tandem Mirror Experiment Upgrade (TMX-U)
[DE84-003740] 08 p1162 N84-17568
Circular waveguide systems for electron-cyclotron-resonant heating of the tandem mirror experiment-upgrade
[DE84-003739] 08 p1233 N84-18062
Fundamental mode rectangular waveguide system for Electron-Cyclotron Resonant Heating (ECRH) for tandem mirror experiment-upgrade (TMX-U)
[DE84-009085] 15 p2322 N84-24940
Microwave measurement test results of circular waveguide components for Electron Cyclotron Resonant Heating (ECRH) of the Tandem Mirror Experiment-Upgrade (TMX-U)
[DE84-009538] 19 p3108 N84-29746
Focusing twist reflector for electron-cyclotron resonance heating in the Tandem Mirror Experiment-upgrade
[DE84-012954] 22 p3578 N84-32663

FELL, B.
Chemical utilization of the olefinic byproducts in pyrolysis naphtha by carbonylation and alkylation reaction
[BMFT-FB-T-84-064] 19 p2985 N84-28914

FELL, M. J.
The effects of wing tip devices on the performance of the BAe Jetstream 03 p0326 N84-12130

FELL, P. J.
Error analysis for marine geodetic control using the global positioning system
[AD-A140566] 17 p2605 N84-26687

FELLERS, J. F.
Fabrication of biaxially oriented films via poly(p-phenylene teraphthalamide)/H2SO4 liquid crystalline dopes
[AD-A141755] 19 p3111 N84-29764

FELLMAND, L.
Automated en route air traffic control algorithmic specifications. Volume 5: Data specification
[AD-A136851] 10 p1426 N84-19325

FELLOWS, J.
A geographic information system for regional hydrologic modeling 22 p3613 N84-32891

FELMY, A. R.
MINTEQ: A computer program for calculating aqueous geochemical equilibria
[PB84-157145] 12 p1795 N84-21704
MEXAMS (Metals exposure analysis modeling system)
[PB84-157155] 12 p1799 N84-21736

FELS, M. F.
Simplified confidence intervals for an awkward nonlinear model
[AD-A136403] 09 p1374 N84-18975

FELSCHE, J.
The sodium sulfur battery system: Investigation of the solid electrolyte beta alumina
[BMFT-FB-T-83-123] 02 p0216 N84-11416

FELSEN, L. B.
Rays and modes on concave surfaces
[AD-A131411] 02 p0210 N84-11371

FELSENTREGER, T. L.
The ERODYN and QRPIG computer programs
20 p3221 N84-30468

FELT, D. G.
Forest area and timber resource statistcs for state and private lands in New Mexico, 1980, Forest Service resource bulletin
[PB83-251157] 04 p0556 N84-13667

FELTEN, J. E.
Milgrom's revision of cosmic dynamics: Amending Newton's laws or Keplers?
[NASA-TM-86049] 08 p1244 N84-18132

FELTZ, T. F.
Airloads research study. Volume 1: Flight test loads acquisition
[NASA-CR-170409] 08 p1103 N84-17173
Airloads research study. Volume 2: Airload coefficients derived from wind tunnel data
[NASA-CR-170410] 08 p1103 N84-17174

FELVER, T.
Bound and free moisture in explosives and plastics
[DE84-001402] 04 p0509 N84-13339

FELZMANN, F. W.
CTX: A system for computer-aided indexing
[BMFT-FB-ID-83-006] 02 p0303 N84-11986

FENCL, V.
Naloxone does not affect ventilatory responses to hypoxia and hypercapnia in rats
[AD-A131836] 03 p0414 N84-12708

FENDELL, F. E.
Conditions for two-cell structure in severe vortical storms
[AD-A138242] 17 p2734 N84-27381
Wall effects on combustion in an engine
[AD-A141418] 19 p2966 N84-28796
Wall quench and flammability limit effects on exhaust hydrocarbon emission
[DE84-009754] 21 p3359 N84-31307
Raman spectroscopy measurements of flame quenching in a duct-type crevice, appendix B
[DE84-009328] 21 p3362 N84-31329

FENDELL, J.
N(2) and CO vibrational CARS and h(2) rotational CARS spectroscopy of CH(4)-N(2)O flames
[AD-A132234] 04 p0493 N84-13238
Theoretical calculation of H/sub 2 S- and Q-branch spectra for propellant flames 13 p1943 N84-22636
Theoretical calculations of H(2) CARS spectra for propellant flames
[AD-A135818] 17 p2619 N84-26758

FENDER, D. A.
A Generalized Escape System Simulation (GESS) computer program: GESS user's guide, version 2, volume 1
[AD-A138844] 13 p1928 N84-22545

FENG, C. C.
The strength and behavior of steel fiber-reinforced concrete under combined tension-compression loading
[AD-A136124] 09 p1334 N84-18708

FENG, M.
Ka-band Ga-As FET noise receiver/device development
[NASA-CR-175176] 10 p1484 N84-19705

FENG, W. W.
Finite deformation of viscoelastic disks
[DE84-002795] 12 p1827 N84-21908
Viscoelastic and aging characteristics of polymers
[DE84-012689] 21 p3371 N84-31393

FENGLER, H. G.
Reliability of electrical machines and drives, part 1
[BMFT-FB-T-83-163-PT-1] 07 p0999 N84-16480
Reliability of electrical machines and drives, part 2
[BMFT-FB-T-83-164-PT-2] 07 p0999 N84-16481

FENIMORE, E. E.
Inverse comptonization vs. thermal synchrotron
[DE84-001039] 04 p0622 N84-14105
The 3-10 keV and 0.1- to 2-MeV observations of 4 gamma-ray bursts
[DE84-001334] 05 p0768 N84-15022

Log N-log S in inconclusive
[NASA-CR-173153] 07 p1093 N84-17111

FENN, J. B.
Collisional energy exchange in polyatomic molecules
[AD-A133942] 05 p0744 N84-14886

FENNELL, J. F.
A review of SCATHA satellite results: Charging and discharging 08 p1115 N84-17254
Laboratory and space measurements of materials
[AD-P002113] 16 p2523 N84-26199
Summary of experimental results
[AD-P002126] 16 p2525 N84-26212
A determination of the charge state of energetic magnetospheric ions by the observation of drift echoes
[AD-A143181] 22 p3623 N84-32954

FENNER, P. J.
Requirements, applications, and results of strapdown inertial technology to commercial airplanes
16 p2447 N84-25695

FENNESSY, M. J.
GCM sensitivity to 1982 - 1983 equatorial Pacific sea surface temperature anomalies
12 p1858 N84-22106

FENOCHKA, B. V.
Investigation of the thermophysical properties of high-melting materials with the aid of a complex of instruments
[NASA-TM-77402] 10 p1453 N84-19491

FENRICK, W. J.
Measurements of elongational viscometry using a fiber spinning technique. Part 1: Modifications to the Sangamo Schlumberger elongational viscometer model E4
[AD-A140002] 15 p2333 N84-25010

FENTRESS, V. A.
Fracture mechanics evaluation of the static fatigue life of optical fibers in bending 11 p1727 N84-21265

FENVES, S. J.
The role of DBMS in design research
12 p1891 N84-22317

FENWICK, J. R.
Research study for effects of case flexibility on bearing loads and rotor stability
[NASA-CR-171147] 23 p3756 N84-33811

FEO, T. A.
Program for the analysis of fault trees
[AD-A134746] 08 p1213 N84-17910

FEOFILAKTOV, V. D.
Ocean bottom seismograph operation: Certain problems of procedure 19 p3060 N84-29415

FEOKTISTOV, K.
Feoktistov recounts planning for Gagarin spaceflight
19 p2971 N84-28836

FEOKTISTOVA, T. P.
Gene mutations, chromosome aberrations and survivability after X-ray irradiation of Chinese hamster cell culture under conditions of cysteamine protection
17 p2743 N84-27413

FERBER, R.
Polycrystalline silicon study: Low-cost silicon refining technology prospects and semiconductor-grade polycrystalline silicon availability through 1988
[NASA-CR-173897] 22 p3662 N84-33213

FEREBEE, M. J., JR.
Interactive geometry modeling of space station conceptual designs 12 p1871 N84-22191
Interactive systems design and synthesis of future spacecraft concepts
[NASA-TM-86254] 19 p2981 N84-28893

FERGUS, J. L., JR.
A steady-state thermal model for analysis of incipient icing on an air foil leading edge
[AD-A131207] 02 p0175 N84-11150

FERGUSON, D. C.
Laboratory degradation of Kapton in a low energy oxygen ion beam
[NASA-TM-83530] 09 p1272 N84-18310
The energy dependence and surface morphology of Kapton (trademark) degradation under atomic oxygen bombardment 24 p3863 N84-34484

FERGUSON, D. H.
The emission line spectra of cataclysmic variable accretion disks 16 p2576 N84-26533

FERGUSON, G. D.
Interferometrically tuned laser resonator
[AD-D011125] 22 p3600 N84-32800

FERGUSON, H. M.
Dark streaks on talus slopes, Mars
13 p2084 N84-23499

FERGUSON, I. F.
Surfaces, Coatings and Protection
[ND-R-751(S)] 18 p2931 N84-28583

FERGUSON, J. A.
ELF/VLF (Extremely Low Frequency/Very Low Frequency) long path pulse program for antennas of arbitrary elevation and orientation
[AD-A133876] 05 p0667 N84-14388
Sensitivity of a lidar inversion algorithm to parameters relating atmospheric backscatter and extinction
[AD-A141565] 19 p3054 N84-29378

FERGUSON, J. R., JR.
Autonomous navigation of USAF spacecraft
[AD-A139173] 14 p2114 N84-23669

FERGUSON, K. R.
Engineering hot-cell windows for radiation protection
[DE83-014675] 03 p0356 N84-12319

FERGUSON, P. E.
Development program for a 200kW, CW gyrotron
[DE84-007945] 14 p2149 N84-23874

FERGUSON, R. L.
A review of underwater acoustic systems and methods for locating objects lost at sea
[NASA-TM-85727] 06 p0908 N84-15898

FERLA, M. C.
Wind-generated noise in shallow water
[AD-A141981] 20 p3290 N84-30890

FERLAND, G. J.
Cosmic rays and the emission line regions of active galactic nuclei
[NASA-TM-86110] 16 p2582 N84-26561

FERLAND, M. A.
Interpretative analysis of surficial sediments as an aid in transport studies of dredged materials Cape Canaveral, Florida
[AD-A140759] 17 p2724 N84-27339

FERLUGA, S.
Observed particularities during the eclipse of Epsilon Aurigae 24 p3980 N84-35214

FERNANDES, C. T.
A static analyzer of FORTRAN programs
[INPE-3016-TDL/155] 17 p2752 N84-27465

FERNANDEZ-PARTAGAS, J.
Subsynoptic variations in SEASAT winds
[PB84-131697] 09 p1350 N84-18823
Analysis of SEASAT wind observations in the Gulf of Mexico and the Caribbean Sea
[PB84-131309] 09 p1350 N84-18824

FERNANDEZ-PELLO, A. C.
Fire propagation in concurrent flows
[PB84-100155] 08 p1127 N84-17326

FERNANDEZ, A. D.
Construction of engineering drawings using a personal computer 16 p2544 N84-26329

FERNANDEZ, J. P.
Field experience with voltage breakdown in photovoltaic (PV) arrays
[DE84-005551] 12 p1844 N84-22020

FERNANDEZ, M.
Development of a slotted waveguide array panel for SAR antenna: Electrical design and testing
[IEC-MO-80/11] 23 p3732 N84-33656

FERNHOLZ, H. H.
Some aspects of two-dimensional compressible turbulent boundary layers 06 p0837 N84-15456

FERRAGUT, N.
Statistical correlation of structural mode shapes from test measurements and NASTRAN analytical values
[NASA-TM-86044] 16 p2501 N84-26054

FERRAN, J.
Service experience of EDF 20 kV XLPe insulated cable
[BLL-OA-TRANS-2633-(6196.3)]
04 p0524 N84-13448

FERRANTE, E.
Preliminary experimental and theoretical results on cantilever vibration absorbers applied for aircraft cabin vibration
[SPER-8390] 18 p2794 N84-27730

FERRANTE, J.
Matrix effects in ion-induced emission as observed in Ne collisions with Cu-Mg and Cu-Al alloys
[NASA-TM-83061] 01 p0141 N84-10923
Metallic adhesion and bonding
14 p2153 N84-23897

FERRANTE, J. G.
Statistical method for the calculation of the coverage of the celestial sphere including Sun, Moon and Earth constraints (analysis document)
[MATRA-CMT-RT101/016] 23 p3839 N84-34354

FERRARI-TONIOLO, M.
Multifrequency observations of three active galaxies
24 p3972 N84-35151
Coordinated X-ray, ultraviolet, optical, and infrared observations of the transient source A0535+26
24 p3981 N84-35219

FERRARI, G. M.
Remote monitoring of sediments and chlorophyll as traces of pollutant movements in a Mediterranean coastal area 23 p3780 N84-33969

FERRARIS, G.
Prediction of critical speeds, unbalance and nonsynchronous forced response of rotors
10 p1515 N84-19918

FERRATON, J. P.
Optical properties of amorphous silicon: Some problem areas
[DE84-701201] 24 p3964 N84-35102

FERRAZ-MELLO, S.
The Motion of Planets and Natural and Artificial Satellites, volume 2 19 p3117 N84-29806

FERREIRA, A. A. N.
Flexible disk data storage unit
[INPE-2982-RPE/451] 23 p3814 N84-34181

FERREIRA, A. C. D.
Representation of the Fokker-Plank collision term for Coulomb interaction as series of Legendre polynomials
[INPE-3232-PRE/582] 24 p3949 N84-35006

FERREIRA, D. L.
Sensitivity analysis of the influence of the flexibility of solar panels on the attitude dynamics of artificial satellites
[INPE-2763-PRE/337] 07 p0981 N84-16232
Capture of satellite stabilized by gravity gradient with a flexible mast during and after deployment
[INPE-2749-PRE/325] 10 p1436 N84-19383
Optimization of the capture process for a rigid satellite stabilized by gravity gradient
[INPE-3184-PRE/549] 21 p3349 N84-31245

FERREIRA, L. D. D.
Satellite control by stabilizing flaps
[INPE-2889-TDL/145] 17 p2614 N84-26733
Pitch control of a satellite using stabilizing flaps
[INPE-3185-PRE/550] 21 p3349 N84-31246
Artificial satellites, orbital motion
[INPE-3163-RPE/458] 23 p3699 N84-33445
Stochastic control of pitch motion of satellites using stabilizing flaps
[INPE-3235-PRE/584] 24 p3859 N84-34458

FERREIRA, M. A.
Improvements in the process of dehydrating hydrazine by sodium hydroxide
[INPE-3198-PRE/561] 23 p3712 N84-33531

FERREIRA, N. P.
Spectrographic investigation of gold by Grimm lamp
[CSIR-SR-283] 04 p0493 N84-13233

FERRELL, W. R.
Theory of 4-wave mixing for VUV generation
[DE84-011663] 21 p3410 N84-31630

FERRENBERG, A.
Atomization and mixing study
[NASA-CR-170943] 06 p0834 N84-15428

FERRIGNO, J. G.
Satellite image atlas of glaciers: The Polar regions
14 p2161 N84-23940
Glacological and geological studies of Antarctica with satellite remote sensing technology
14 p2163 N84-23956

FERRIS, A. T.
Aerodynamic force measurements with a strain-gage balance in a cryogenic wind tunnel
[NASA-TP-2251] 04 p0480 N84-13162

FERRIS, J. C.
Aerodynamic design for improved manueverability by use of three-dimensional transonic theory
[NASA-TP-2282] 09 p1250 N84-18161

FERRIS, J. E.
Television interference measurements near the MOD-2 WT array at Goodnoe Hills, Washington
[DE84-000030] 10 p1482 N84-19688

FERRISS, D. H.
Numerical solution of rectangular anisotropic plates in flexure with free edges
[NPL-DMA(A)-71] 15 p2346 N84-25075
Design calculations associated with the laying of submarine communication cables
[NPL-DMA(A)-76] 15 p2346 N84-25077

FERRON, A.
Lubrication during cutting: Wear and friction
[CETIM-13-Y-322] 21 p3414 N84-31653

FERRY, J. G.
Microbiological and biochemical studies towards optimization of substrate utilization by methanogenic bacteria
[PB84-179753] 16 p2474 N84-25859

FERRY, P. S.
Atlas of high resolution infrared spectra of carbon dioxide
[NASA-TM-85764] 10 p1576 N84-20325

FERTIS, D. G.
Interactive finite elements for general engine dynamics analysis 21 p3421 N84-31698

FERZIGER, J. H.
Improved turbulence models based on large eddy simulation of homogeneous, incompressible turbulent flows
[NASA-CR-166541] 08 p1156 N84-17528
Navier-Stokes simulation of homogeneous turbulence on the CYBER 205 10 p1560 N84-20224

FESENKO, V. V.
Investigation of the thermophysical properties of high-melting materials with the aid of a complex of instruments
[NASA-TM-77402] 10 p1453 N84-19491
FESER, C. L.
The toxicity of petroleum and shale JP5
[AD-A142670] 20 p3260 N84-30690
FESSENDEN, T. J.
Measurements of the emittance and current density profile of the beam produced by the ATA injector
[DE83-016522] 03 p0434 N84-12848
Beam dynamics in the Advanced Test Accelerator (ATA)
[DE84-001421] 04 p0598 N84-13947
Time-resolved beam-profile measurements on the Experimental Test Accelerator (ETA)
[DE84-002453] 07 p1072 N84-16969
Preliminary experiments with a carbon fiber tuft cathode
[DE84-006296] 12 p1813 N84-21820
FESTER, D.
Fluid management 09 p1268 N84-18284
FESTER, D. A.
Cryogenic Fluid Management Experiment (CFME) trunnion verification testing
[NASA-CR-168310] 07 p0985 N84-16381
FETISOV, G. P.
Device for high frequency arc welding
24 p3869 N84-34522
FETT, R. W.
Navy tactical applications guide. Volume 5, Part 1: Indian Ocean (Red Sea/Persian Gulf) weather analysis and forecast applications
[AD-A134412] 07 p1039 N84-16740
Navy tactical applications guide. Operational environmental satellites. Polar-orbiting satellites geostationary satellites, spacecraft, sensors, imagery
[AD-A135466] 08 p1113 N84-17240
FEUERSANGER, A. E.
Arc discharge convection studies: A Space Shuttle experiment 18 p2799 N84-27761
FEUILLEBOIS, P.
The movement of water droplets in clouds around the nose of an atmospheric research aircraft
[NASA-TM-77358] 07 p1001 N84-16491
FEUQUAY, J. W.
Study of Thematic Mapper and Multispectral Scanner data applications 20 p3215 N84-30421
FEWELL, M. E.
Sodium heat transfer system modeling
[DE84-002051] 07 p1004 N84-16509
Quality Assurance (QA) procedures for computer software in department 1510
[DE84-012131] 20 p3273 N84-30778
FEYGELSON, Y. M.
Influence of tropospheric aerosol on integral albedo of cloudy atmosphere. Underlying surface system
17 p2707 N84-27236
FEYNMAN, J.
Solar wind variations in the 60-100 year period range: A review 03 p0469 N84-13092
FEYZULIN, A. I.
Possibility of extending Kirchhoff's approximation to problems of wave diffraction by transparent nonhomogeneous bodies 18 p2822 N84-27920
FIACCO, A. V.
Convexity and concavity properties of the optimal value function in parametric nonlinear programming
[AD-A138202] 12 p1881 N84-22264
Generalized convexity and concavity properties of the optimal value function in parametric nonlinear programming
[AD-A138220] 12 p1882 N84-22265
Solution and sensitivity analysis of RESDYN model 1a using SENSUMT
[AD-A142788] 21 p3515 N84-32267
FIALKOV, B. S.
Movement of free-flowing materials in aerodynamic controlled-feed gate 09 p1324 N84-18652
Movement of free-flowing materials in aerodynamic controlled-feed gate 09 p1324 N84-18652
FICARRA, R.
Investigation to optimize the passive shock wave-boundary layer control for supercritical airfoil drag reduction
[NASA-CR-173276] 07 p0946 N84-16135
FICHT, D.
High charge picosecond pulses with a double gap subharmonic buncher
[DE83-011743] 01 p0143 N84-10939
FICHTEL, C. E.
A study of the diffuse galactic gamma radiation
[NASA-TM-86055] 08 p1247 N84-18151
FICHTER, W. B.
Stress decay in an orthotropic half-plane under self-equilibrating sinusoidal loading
[NASA-TM-85791] 17 p2679 N84-27066
Opening of an interface flaw in a layered elastic half-plane under compressive loading
[NASA-TM-86282] 22 p3611 N84-32877
FICK, M.
HII regions in the outer galaxy
23 p3838 N84-34345
FICKAS, S. F.
Automating the transformational development of software, volume 1
[AD-A139860] 15 p2392 N84-25355
Automating the transformational development of software. Volume 2: Appendices
[AD-A139918] 15 p2392 N84-25356
FICKENSCHER, G.
The use of the MASCOT philosophy for the construction of Ada programs
[AD-A137417] 10 p1563 N84-20239
FICSOR, G.
Use of sperm enzymes to detect genotoxic agents
[AD-A142724] 20 p3260 N84-30691
FIDELL, S.
The detectability of repetitive, periodic impulses
[AD-A132744] 05 p0713 N84-14675
FIDLER, J.
Anisotropy and microstructure of Sm2(Co, Fe, Cu, Zr)17 magnetic materials
[AD-A131961] 03 p0352 N84-12291
FIEDLER, C. J.
Inference of fatigue-crack closure stresses from ultrasonic-transmission measurements
[DE83-017684] 03 p0390 N84-12547
FIEDLER, E.
Mass spectroscopic investigations of the reactions of O2 (1 deltag) with furan, 2-methylfuran, and 2,5-dimethylfuran in the gas phase
[MPIS-7/1983] 13 p1958 N84-22731
FIEGELSON, R. S.
Research and crystal growth on high dielectric constant materials for mm wave applications
[AD-A136281] 09 p1394 N84-19102
FIELD, J. E.
Liquid impact erosion mechanisms in transparent materials
[AD-A135891] 09 p1287 N84-18405
FIELD, J. T.
Pringle: A parallel processor to emulate CHiP (configurable highly parallel) computers
[AD-A129152] 01 p0119 N84-10770
The Pringle parallel computer
[AD-A140852] 17 p2750 N84-27452
FIELD, R. D.
Photon-photon production in hadron-hadron collisions
[DE83-015948] 02 p0292 N84-11912
FIELD, R. T.
A climatically-derived global soil moisture data set for use in the GLAS atmospheric circulation model seasonal cycle experiment
[NASA-CR-173289] 08 p1186 N84-17729
FIELD, S. P.
Investigation of pulsed performance of an electrothermal hydrazine thruster, using a special see-through thruster
[AD-A137408] 10 p1451 N84-19473
FIELDS, D. E.
Analysis-plot generation code with significance levels computed using Kolmogorov-Smirnov statistics valid for both large and small samples
[DE84-001581] 04 p0592 N84-13907
Algorithm for computing significance levels using the Kolmogorov-Smirnov statistic and valid for both large and small samples
[DE84-001586] 04 p0592 N84-13909
Methodology for the objective validation of model performance, with an application to atmospheric transport models
[DE83-015693] 06 p0875 N84-15693
FIELDS, R. J.
Effects of variations in heat treatment on the mechanical properties and microstructure of ASTM A710 Grade A Class 3 steel
[AD-A136328] 09 p1282 N84-18371
FIENBERG, S. E.
Comparing probability forecasters: Basic binary concepts and multivariate extensions
[AD-A135966] 09 p1377 N84-18998
Comment on graphical methods for assessing logistic regression models by Landwehr, Pregibon and Shoemaker
[AD-A135684] 09 p1383 N84-19031
Towards a comprehensive approach to the analysis of categorical data
[AD-A135967] 09 p1383 N84-19034
FIFE, D. J.
Photochemical energy storage (photosensitized isomerization of norbornadiene to quadricyclane by copper (I) complexes)
[AD-A135363] 08 p1180 N84-17687
FIFE, P. C.
Flame fronts with complex chemical networks
[DE84-001175] 04 p0496 N84-13255
A 3-component system of competition and diffusion
[AD-A132860] 05 p0738 N84-14844
FIFER, R. A.
Catalysis of nitramine propellants by mmtal borohydrides
[AD-A133215] 06 p0812 N84-15285
Kinetics of the Beta + Delta phase transformation of HMX 13 p1951 N84-22681
Combustion thermodynamics of some boron-nitrogen-hydrogen compounds
13 p1951 N84-22684
FIGUEIREDO, D. G. D.
A variational approach to superlinear elliptic problems
[AD-A134541] 07 p1063 N84-16892
FIGUEROA, D. R.
Dielectric relaxation in poly(ethylene oxide) complexed with alkali metal perchlorates
[AD-A134464] 07 p0970 N84-16284
Association and bound motion in alkali metal doped cadmium fluoride
[AD-A143200] 22 p3546 N84-32450
Anomalous pressure dependence of dipolar relaxation times in rare earth doped lead fluoride
[AD-A143201] 22 p3662 N84-33215
FIGUEROA, H.
Advanced leading edge thermal-structure concept. Direct bond reusable surface insulation to a composite structure
[NASA-TM-85941] 14 p2113 N84-23665
FILATOV, V. V.
Subharmonic vibrations of rotor mounted in rolling bearings 17 p2649 N84-26943
FILATOV, Y. A.
Reflection of electromagnetic waves from inhomogeneous media 22 p3566 N84-32586
FILATOVS, G. J.
Refined test methods in evaluating brittle material strengths
[AD-A133596] 06 p0861 N84-15610
FILEAS, G.
On numerical methods in non-Newtonian flows
[DE84-701276] 24 p3899 N84-34691
FILEP, R. T.
Study to forecast and determine characteristics of world satellite communications market
[NASA-CR-168270] 07 p0991 N84-16426
FILHO, A. C. L.
The use of pipeline techniques in the architecture of digital processors employed in real time applications
[INPE-2992-TDL/153] 22 p3639 N84-33075
FILHO, A. D. M.
Observations of radiation exchange above and below Amazonian forest
[INPE-3194-PRE/558] 21 p3447 N84-31870
FILHO, A. L.
Development of a spectroradiometer with a linear network of detectors from standard CCD
[INPE-3095-TDL/165] 22 p3657 N84-33180
FILHO, J. P. D.
A simulation of a satellite power supply system
[INPE-3140-TDL/166] 23 p3699 N84-33446
FILHO, O. B. D.
Objectives: Activities and needs of the digital simulation laboratory, attitude and orbit control systems, and the thermal control laboratory of the space mechanics and control department
[INPE-3174-RPE/459] 23 p3833 N84-34311
FILHO, V. D. S.
Observations of radiation exchange above and below Amazonian forest
[INPE-3194-PRE/558] 21 p3447 N84-31870
FILICE, J. P.
Studies of the microscale density fluctuations in the solar wind using interplanetary scintillations
22 p3679 N84-33324
FILIP, A. E.
A distributed signal processing architecture
[AD-A130227] 01 p0119 N84-10771
FILIPOV, A. N.
A new multifunction acousto-optic signal processor
12 p1906 N84-22413
FILIPOVIC, S.
An analysis of the coax-fed monopole in a general medium
[AD-A137981] 12 p1811 N84-21805

FILIPPI, C. A.
FM spectral modeling and FDM/FM simulation programs
[PB84-118934] 08 p1147 N84-17469
FILIPPONE, W. L.
Analytic solution of the Spencer-Lewis angular-spatial moments equations
[AD-A144609] 24 p3962 N84-35089
FILIPPONI, P.
Analysis of a network structure for algorithm testing
[FUB-1-1963] 05 p0732 N84-14804
FILIPPOU, F. C.
Effects of bond deterioration on hysteretic behavior of reinforced concrete joints
[PB84-192020] 20 p3203 N84-30343
FILIPPOV, A. V.
Psychology and study of human factor in management
18 p2898 N84-28382
FILIPPOVA, I. A.
Examination of the electrochemical behaviour of titanium in the LiC1-KC1 melt
[BLL-OA-TRANS-3010-(6196.3)]
01 p0042 N84-10273
The electrodeposition of titanium coatings
[BLL-OA-TRANS-3057-(6196.3)]
04 p0497 N84-13260
FILIPSSON, G.
Characterization of microstrip fixtures, a broadband model for a microstrip connector
[FOA-C-30338-E] 12 p1814 N84-21824
FILLER, J. R.
Hydrologic flow determination for hydropower feasibility analysis
[PB83-219758] 01 p0101 N84-10655
FILLIUS, W.
Trapped particle absorption by the Ring of Jupiter
[NASA-CR-173919] 22 p3679 N84-33323
Large scale solar modulation of 500 MeV/N galactic cosmic rays seen from 1-30 AU
[NASA-CR-173993] 24 p3995 N84-35283
FILLO, J. A.
Fusion and high temperature electrolysis
11 p1740 N84-21350
FILTER, W.
A multi-GHz multi-channel photonic analog data processing system
[DE84-012281] 21 p3499 N84-32175
FILTHAUT, C.
Physico-chemical studies on copper sulfide. The CdS-Cu2S solar cell
[BMFT-FB-T-84-065] 19 p2990 N84-28947
FINAOGENOVA, R. I.
Reliability and efficiency of Kubicek rheographic method for monitoring cardiac output and stroke volume
20 p3253 N84-30644
FINCK, A.
Amplitude distributions of the spider heartpulse in response to gravitational stimuli
09 p1353 N84-18841
FINDEISEN, A. G.
Digital multi-tapped delay line with automatic time-domain programming
[AD-D011136] 22 p3581 N84-32676
FINDL, E.
Reassessment of the OHZ process for the thermochemical decomposition of water
[DE84-007806] 18 p2812 N84-27849
FINDLAY, J. T.
Aerodynamic coefficient identification package dynamic data accuracy determinations: Lessons learned
01 p0022 N84-10138
Subsonic longitudinal performance coefficient extraction from shuttle flight data: An accuracy assessment for determination of data base updates
01 p0026 N84-10163
STS-8 bet results
[NASA-CR-172257] 02 p0184 N84-11197
STS-9 BET products
[NASA-CR-172314] 11 p1622 N84-20616
Final STS-11 (41-B) best estimate trajectory products: Development and results from the first Cape landing
[NASA-CR-172349] 18 p2802 N84-27786
STS-13 (41-C) BET products
[NASA-CR-172350] 20 p3134 N84-29901
FINDLAY, M. W.
Portable device for detecting and identifying hazardous vapors
[DE84-003640] 14 p2148 N84-23870
FINDLER, N. V.
On some issues concerning optimization and decision trees
[AD-A134109] 05 p0733 N84-14815
An overview of the quasi-optimizer system
[AD-A133763] 05 p0739 N84-14856
Approaches to automatic strategy analysis and synthesis
[AD-A137067] 10 p1573 N84-20312
FINDLEY, W. N.
Creep and creep recovery of 2618-T61 aluminum under variable temperature
[AD-A137976] 12 p1797 N84-21723
Prediction of creep and creep relaxation of AL 2618 under variable multiaxial stresses
[AD-A139950] 15 p2297 N84-24788
FINE, H. A.
Development of advanced thermal insulation for appliances
[DE84-013132] 22 p3594 N84-32763
FINE, J. E.
Low-cost stator material for M734 alternators
[AD-A126804] 07 p0997 N84-16464
FINE, M. E.
Synthesis and properties of elevated temperature P/M aluminum alloys
[AD-A135956] 09 p1283 N84-18379
FINEGOLD, L. S.
Simulated 3-dimensional computer graphics training display for air weapons controllers. Volume 2: Users guide
[AD-A141336] 19 p3075 N84-29510
Simulated 3-dimensional computer graphics training display for air weapons controllers, volume 1
[AD-A141347] 19 p3075 N84-29511
FINGER, M.
Equations of state of PBX-9404, LX-07, and RX-26-AF detonation products at pressures above detonation pressure
[DE84-002465] 09 p1290 N84-18424
FINK, C. R.
Survey and analysis of materials research and development at selected federal laboratories
[DE84-008904] 20 p3145 N84-29967
FINK, F. T.
Extending the lifetime of operational systems through corrosion tracking and prediction
[AD-A133931] 05 p0625 N84-14112
FINK, J. A.
Efficient radiation-hardened, 400- and 800-keV neutral-beam injection systems
[DE83-015691] 03 p0440 N84-12886
FINK, J. H.
Windows and mirrors needed for a laser-driven photoneutralizer
[DE83-013582] 03 p0380 N84-12473
FINK, J. P.
Solution manifolds and submanifolds of parametrized equations and their discretization errors
[AD-A130186] 01 p0131 N84-10857
FINK, S. F.
Conditions for two-cell structure in severe vortical storms
[AD-A138242] 17 p2734 N84-27381
FINK, V.
Digital video transmission with reduced frame repetition rate and movement-adapted frame-to-frame interpolation
[AD-B075822] 15 p2318 N84-24915
FINKE, R.
Piezoelectric deicing device
[NASA-CASE-LEW-13773-2] 22 p3597 N84-32782
FINKE, R. C.
Three-phase, high-voltage, high-frequency distributed bus system for advanced aircraft
01 p0010 N84-10058
FINKEL, M. W.
Optical scanner
[NASA-CASE-GSC-12897-1] 15 p2407 N84-25450
FINMAN, L. C.
Concept and design studies for the exploration of high energy gamma ray astronomy on the Gamma Ray Observatory 23 p3838 N84-34346
FINN, J. M.
Flux diffusion and acceleration in a high current modified betatron
[AD-A141277] 18 p2931 N84-28584
FINN, M. A.
High-sensitivity laser spectroscopy with atoms from a cooled helium jet
[DE84-000614] 04 p0540 N84-13554
FINN, W. D. L.
Procedures for dealing with seismically induced settlements
[AD-A140775] 17 p2728 N84-27361
FINNEMORE, D. K.
Magnetic impurity scattering in in situ superconductors
[DE84-012835] 21 p3505 N84-32212
FINNEY, J. L.
Design and development of military petroleum hoseline system
[AD-A134374] 07 p0960 N84-16222
FINNEY, J. M.
The need for biaxial fatigue testing at A.R.L.
[AD-A143203] 22 p3611 N84-32878
Modelling for fatigue crack growth prediction in Mirage IIIO frame 26
[ARL-STRUC-REPT-401] 24 p3912 N84-34772
FINNEY, R. J.
Determination of Cr(6) and Cr(3) by ICP
[DE83-016627] 10 p1457 N84-19515
FINOCCHIARO, G.
Review of properties of various types of calorimeters: High luminosity and high energy
06 p0911 N84-15917
FINOGENOVA, R. I.
Demonstration of gas bubbles in canine pulmonary artery and aorta by means of ultrasonic echography with intravenous air infusion 02 p0261 N84-11708
FIORATTI, M. P.
Preliminary result of our new Nationwide Evaluation of X-ray Trends (NEXT) program for Italy
[ISS-L-84/3] 20 p3260 N84-30693
FIORE, A. W.
Numerical simulation of flow over rough surfaces, including effects of shock waves
[AD-A134700] 08 p1159 N84-17545
FIORE, C.
Lower hybrid experiments at the 1 MW level on Alcator C: Heating and current drive
[DE84-010586] 20 p3304 N84-30981
FIORENTINI, A.
Proceedings of the 6th European Conference on Visual Perception
[AD-A139927] 15 p2379 N84-25279
FIORENTINO, A. J.
An assessment of the use of antimisting fuel in turbofan engines
[NASA-CR-168081] 01 p0052 N84-10332
FIORITO, R. B.
A beam current density monitor for intense electron beams
[AD-A137146] 11 p1660 N84-20832
FIREMAN, E. L.
Radioactivites in returned lunar materials and in meteorites
[NASA-CR-171710] 02 p0308 N84-12018
Radioactivities in returned lunar materials and in meteorites
[NASA-CR-175347] 07 p1090 N84-17089
FIRESTONE, J.
Evaluation of glass model precipitation forecasts for North America during SOP-1 12 p1850 N84-22051
FIRESTONE, R. F.
Kinetics of growth and decay of excited rare-gas atoms and molecules in the pulse radiolysis of pure rare gases and of mixtures of rare gases with molecular quenching agents
[DE83-017016] 03 p0436 N84-12856
FIRMIN, M. C. P.
Disturbances from ventilated tunnel walls in aerofoil testing 14 p2096 N84-23573
FIRSICH, D. W.
Energetic materials separations and specific polymorph preparations via thermal gradient sublimation
[DE84-002830] 09 p1290 N84-18422
FIRSOV, K. M.
Resonance absorption of narrow-band laser radiation by atmospheric gases 20 p3225 N84-30493
FIRTH, J.
The ISPM cosmic-ray and solar-particle investigation
09 p1262 N84-18236
FIRTH, W. J.
Connection between Ikeda instability and phase conjugation 14 p2232 N84-24390
Multi-parameter universal route to chaos in a Fabry-Perot resonator 14 p2233 N84-24399
FISCELLA, J. M.
Development of a proposed standard for the exchange of scientific microcomputer programs
[PB84-157940] 14 p2207 N84-24244
FISCH, G.
Daily variations of temperature and humidity within and above Amazonian forest
[INPE-3196-PRE/560] 21 p3447 N84-31869
Observations of radiation exchange above and below Amazonian forest
[INPE-3194-PRE/558] 21 p3447 N84-31870
FISCH, N.
Technical use of solar energy: Conversion from solar to thermal energy, solar cooling and thermal energy storage
[BMFT-FB-T-83-300] 15 p2362 N84-25173
FISCH, N. P.
TRISTEN/FRAM IV arctic ambient noise measurements
[AD-A140656] 17 p2763 N84-27549

FISCHBECK, G.
The X, and L-band radar backscatterer analysis of agricultural crops in West Germany
23 p3767 N84-33879
FISCHEL, D.
Thematic Mapper image production in the engineering checkout phase
20 p3206 N84-30369
FISCHER, C. F.
Computational spectroscopy
[DE84-003754] 07 p0971 N84-16290
Theoretical studies of atomic transitions
[DE84-002628] 07 p1073 N84-16970
FISCHER, C. P.
Transponder optimization by computer simulation
[MBB-UR-617-83-O] 16 p2563 N84-26445
FISCHER, D. W.
Optical and electrical characterization of multiply doped silicon: A study of the Si:(In, Al) system
[AD-A143820] 23 p3830 N84-34294
FISCHER, E. U.
Digital signal processing in computer aided cartography
[SER-C-278-MITT-163] 10 p1526 N84-19998
FISCHER, G.
Development of a process for manufacturing high voltage CMOS circuits and of a technology for gold bump plating for use in integrated display systems
[BMFT-FB-T-83-280] 10 p1488 N84-19732
FISCHER, G. E.
Recommendations for on-site vibration standards
[DE84-011756] 20 p3181 N84-30207
FISCHER, H.
Laser range finding technology for space to space applications. Volume 1: Laser diode range finder functional model
[MBB-UR-608-83-O-VOL-1] 09 p1324 N84-18648
FISCHER, H. W.
Computer symbol generator and control panel for an integrated cockpit color display information system
[BMFT-FB-W-83-007] 02 p0179 N84-11169
FISCHER, J.
The influence of perturbing water properties in chlorophyll mapping
23 p3780 N84-33970
FISCHER, J. A.
Development of a stress-dependent finite element slab model
[AD-A135836] 09 p1332 N84-18694
FISCHER, K. N.
MAPPER user's manual
[DE84-003478] 11 p1708 N84-21133
FISCHER, M. C.
A flight test of laminar flow control leading-edge systems
[NASA-TM-85712] 05 p0625 N84-14110
FISCHER, M. J.
Impossibility of distributed consensus with one faulty process
[AD-A132503] 04 p0580 N84-13823
FISCHER, R. D.
Models of simultaneous heat and moisture transfer in soils
[DE84-001580] 04 p0534 N84-13513
State-of-the-art survey of existing knowledge for the design of ground-source heat pumps
[DE84-002988] 07 p1003 N84-16504
Technical and economic feasibility of horizontal, multiple shallow-well, and deep-well ground coupling for residential heat pump applications
[DE84-006244] 12 p1817 N84-21842
FISCHER, S. D.
Programming language LANAC 2 and implementation for a SISCO MB-8000
[INPE-3090-TDL/163] 16 p2543 N84-26322
The development of LANAC/II language for concurrent programming
[INPE-2781-PRE/347] 23 p3813 N84-34180
FISCHER, S. K.
Vertical concentric-tube ground-coupled heat exchangers
[DE83-014003] 02 p0219 N84-11435
Oak Ridge heat-pump models. Part 1. A steady-state computer design model for air-to-air heat pumps
[DE84-001577] 04 p0535 N84-13519
FLOCHT: A system of FORTRAN codes for computer drawn flow charts and diagrams
[DE84-007589] 15 p2393 N84-25362
FISCHER, T. A.
Irradiation of optimized, MBE grown, AlGaAs radiation hardened photodiode
[DE84-008034] 21 p3504 N84-32208
FISCHER, W. A.
The evaporation of iron and its alloying elements, copper and manganese, under reduced pressure using the levitation melting technique
[BLL-OA-TRANS-3117-(6196.3)]
09 p1281 N84-18367
FISCHER, W. C.
Computer programs for summarizing climatic data stored in the National Fire Weather Data Library
[PB84-197011] 21 p3449 N84-31886
FISCHLER, M. A.
Computer vision research and its applications to automated cartography
[AD-A131289] 02 p0240 N84-11572
Image understanding research and its application to cartography and computer-based analysis of aerial imagery
[AD-A133495] 06 p0866 N84-15642
FISCHMEISTER, H. F.
Ostwald ripening, interfacial energies and diffusion coefficients in monotectic systems
17 p2613 N84-26727
FISCINA, C.
High altitude aerodynamic tests with simulated heat-shield outgassing
[AD-A132078] 04 p0492 N84-13227
FISCUS, I. B.
Nozzle tests for simulating heavy rain in a wind tunnel
[AD-A139566] 14 p2111 N84-23657
FISH, A. M.
Thermodynamic model of creep at constant stresses and constant strain rates
[AD-A139883] 15 p2317 N84-24908
FISH, R. H.
Selective catalytic hydrogenation of polynuclear heteroaromatic nitrogen compounds with polymer-supported transition-metal compounds
[DE84-001326] 04 p0495 N84-13248
FISH, R. L.
Ring ductility of irradiated Inconel 706 and Nimonic PE16
[DE84-010397] 20 p3155 N84-30034
FISHBACH, L. H.
PREWATE: An interactive preprocessing computer code to the Weight Analysis of Turbine Engines (WATE) computer code
[NASA-TM-83545] 04 p0578 N84-13812
Analysis of a topping-cycle, aircraft, gas-turbine-engine system which uses cryogenic fuel
[NASA-TP-2294] 12 p1771 N84-21549
FISHBURNE, F. J.
Age effects on active duty Army MMPI (Minnesota Multiphasic Personality Inventory) profiles
[AD-P003343] 18 p2911 N84-28464
FISHER, A.
Collective-focusing ion accelerator
[DE83-012795] 02 p0290 N84-11899
High-current betatron, phase 1
[AD-A143748] 23 p3824 N84-34252
FISHER, A. D.
Integrated optical signal processing with magnetostatic waves
12 p1907 N84-22420
FISHER, B. D.
Lightning swept-stroke attachment patterns and flight conditions for storm hazards 1981
[NASA-TM-86279] 22 p3532 N84-32365
FISHER, D. M.
Evaluation of the effect of crack closure on fatigue crack growth of simulated short cracks
[NASA-TM-83778] 21 p3365 N84-31348
FISHER, D. R.
Concepts of dose to soft tissue at the cellular level
[DE83-013630] 02 p0266 N84-11748
FISHER, E. C.
Skeletal muscle metabolism of sea-level natives following short-term high-altitude residence
[AD-A139323] 15 p2380 N84-25284
FISHER, J. A.
The extension and application of global compaction techniques for horizontal scientific code
[AD-A135794] 09 p1368 N84-18934
FISHER, K. J.
Vectorized Monte Carlo photon transport
[DE83-014807] 03 p0434 N84-12843
FISHER, M. J.
A review of source location/assessment techniques
06 p0767 N84-15029
Shock associated noise
06 p0767 N84-15030
FISHER, P. W.
Diffusivities of hydrogen in yttrium and yttrium alloys
[DE84-000411] 04 p0503 N84-13296
FISHER, R.
Summary of solar activity observed in the Mauna Loa Solar Observatory, 1980 - 1983
[PB84-137587] 11 p1760 N84-21484
White light solar corona: An atlas of 1983 K-coronameter synoptic charts
[PB84-184159] 20 p3320 N84-31075
FISHER, R. A.
Nonlinear optics: Where do we go from here
[DE84-006028] 11 p1732 N84-21300
FISHER, R. M.
Proceedings of the Seventh International Conference on High Voltage Electron Microscopy
[DE83-016323] 04 p0538 N84-13540
FISHER, R. R.
2nd Joint Solar Dynamics Project data summary: Solar magnetic field, chromospheric and coronal observations near the time of the 11 June 1983 solar eclipse
[NASA-CR-173340] 09 p1417 N84-19272
FISHER, V. L.
Development of scanning dipole array
[AD-P003405] 19 p3014 N84-29109
FISHER, W. F.
An improved acrylic sheet material with enhanced craze resistance
[AD-P003203] 17 p2592 N84-26616
FISHER, W. J.
The DOE passive solar commercial buildings program: Preliminary results of performance evaluation
16 p2515 N84-26141
FISHER, W. M.
Solid propellant nonlinear constitutive theory extension
[AD-A139957] 15 p2304 N84-24823
Nonlinear structural characterization of solid propellants
20 p3142 N84-29951
FISHMAN, E.
Navy mobility fuels evaluation
[AD-A144171] 24 p3890 N84-34630
FISHMAN, G. J.
Trapped-proton energy spectrum determination (M0002-1)
15 p2276 N84-24663
FISHMAN, G. S.
An alternative to the Monte Carlo estimation of network reliability
[AD-A131849] 03 p0427 N84-12800
Estimating critical path and arc probabilities in stochastic activity networks
[AD-A134255] 07 p1067 N84-16925
Estimating network reliability with accelerated convergence rates on error bounds
[AD-A139841] 15 p2397 N84-25383
An exhaustive analysis of multiplicative congruential random number generators with modulus 2(31)-1
[AD-A143085] 21 p3473 N84-32015
FISHMAN, M. M.
Investigation of duration of multichannel sequential signal detection procedure
17 p2634 N84-26850
FISK, G. A.
Particle-velocity measurements of laser-induced shock waves using ORVIS
[DE83-016503] 02 p0228 N84-11494
Particle velocity measurements in laser irradiated foils using ORVIS
[DE83-016629] 04 p0541 N84-13563
FISK, J. W.
Experimental facilities to study hydrogen combustion and detonation
[DE84-008998] 20 p3149 N84-29997
FISK, L. A.
The ISPM solar-wind ion composition spectrometer
09 p1261 N84-18232
FISK, W. J.
Control of respirable particles and radon progeny with portable air cleaners
[DE84-013878] 23 p3812 N84-34170
FISK, Z.
Impurities in the heavy-Fermion superconductor UBe13
[DE84-001731] 05 p0755 N84-14951
Superconducting ground state of a strongly interacting electron system: UBe13
[DE84-001708] 06 p0923 N84-16003
Pressure-dependent resistive behavior of YbBe13
[DE84-010068] 22 p3555 N84-32514
FISUN, A. I.
Stable asynchronous two-frequency oscillations in Gunn-effect diode with open resonator structure
22 p3570 N84-32611
FITCH, E. C.
Parameter measurement methods for interfacing hydraulic systems with microelectronic instruments and controllers
[AD-A144208] 24 p3902 N84-34710
FITPATRICK, R.
Materials implications of advanced thermal and kinetic energy threats
10 p1508 N84-19872
FITTON, B.
Report on the activities of the Space Science Department
[ESA-SP-1062] 17 p2774 N84-27611
FITZENREITER, R. J.
Detection of bump-on-tail reduced electron velocity distributions at the electron foreshock boundary
[NASA-TM-86067] 12 p1922 N84-22518

FITZGERALD, A.
CCRS proposal for evaluating LANDSAT-4 MSS and TM data
[E84-10096] 10 p1522 N84-19966
Revised radiometric calibration technique for LANDSAT-4 Thematic Mapper data by the Canada Centre for Remote Sensing 10 p1522 N84-19967
Revised radiometric calibration technique for LANDSAT-4 Thematic Mapper data 10 p1522 N84-19968
Revised radiometric calibration technique for LANDSAT-4 Thematic Mapper data by the Canada Centre for Remote Sensing 20 p3208 N84-30378

FITZGERALD, J. W.
Measurements of atmospheric aerosols: Experimental methods and results of measurements off the east coast of the United States
[AD-A130998] 02 p0248 N84-11626

FITZGERALD, K. K.
Water resources data for Illinois, water year 1982. Volume 1: Illinois except Illinois River Basin
[PB84-120112] 09 p1338 N84-18738
Water resources data for Illinois, water year 1982. Volume 2: Illinois River Basin
[PB84-120120] 09 p1338 N84-18739

FITZGERALD, M.
An analysis of new techniqes for radiometric correction of LANDSAT-4 Thematic Mapper images
[E84-10086] 10 p1521 N84-19957

FITZGERALD, T. J.
Development of a point-electrode conductivity salinometer with high-spatial-resolution for use in very-saline solutions
[DE83-011170] 01 p0085 N84-10550
Evolution of structure in the PLACES barium clouds
[DE84-010996] 20 p3242 N84-30583

FITZGIBBON, M. T. R.
Comment on coupled perturbations on orbits of artificial earth satellites 19 p3119 N84-29824
Comparison of analytical theories for studying the contraction of artificial satellite orbits
[INPE-2746-PRE/322] 22 p3540 N84-32409

FITZHENRY, P.
Evaluation of army remotely piloted vehicle mission payload operator performance in simulated artillery missions
[AD-A137602] 11 p1703 N84-21103

FITZJARRALD, D. E.
Overview of global scale research Doppler lidar activities 24 p3924 N84-34836
Overview of mesocale research Doppler lidar activities 24 p3928 N84-34863

FITZKY, H. G.
Physical and chemical investigations on real catalyst surfaces
[BMFT-FB-T-83-273] 13 p1958 N84-22729

FITZNER, R. E.
Use of fauna as biomonitors
[DE83-016082] 04 p0571 N84-13762

FITZPATRICK, E. L.
Ultraviolet interstellar absorption toward stars in the small Magellanic cloud 22 p3677 N84-33313

FITZPATRICK, G. L.
Investigation of the Rayleigh critical angle phenomenon for the characterization of surface properties
[AD-A131530] 03 p0360 N84-12340

FITZPATRICK, J. J.
Investigation of shock activated sintering and shock wave consolidation of selected powder materials
[DE84-013074] 21 p3371 N84-31391

FITZWATER, M. A.
Optimum backscatter cross section of the ocean as measured by synthetic aperture radars 17 p2714 N84-27276

FIX, G. J.
Numerical methods for free boundary problems and 2 phase flows
[AD-A131374] 02 p0280 N84-11835
Numerical boundary conditions for flow problems
[AD-P002960] 14 p2200 N84-24200
Least squares approximations to compressible flow problems
[AD-P002961] 14 p2200 N84-24201

FJELDSTED, J. C.
Separation as asphaltenes using high-resolution supercritical-fluid chromatography 01 p0038 N84-10240

FLAA, D. L.
FY85 technical objectives document
[AD-A137987] 12 p1917 N84-22493

FLACCO, A.
Excess science accommodation capabilities and excess performance capabilities assessment for Mars Geoscience and Climatology Orbiter: Extended study
[NASA-CR-173765] 19 p2978 N84-28882

FLACHS, J.
Generalized Dinkelbach-type algorithms
[CSIR-TWISK-295] 11 p1712 N84-21161

FLACHSBART, P. G.
Field surveys of carbon monoxide in commercial settings using personal exposure monitors
[PB84-211291] 22 p3599 N84-32797

FLACK, R. D.
Lateral forces on pump impellers: A literature review 10 p1507 N84-19863
Literature review of tilting pad and turbulent hydrostatic journal bearings for nuclear main coolant pumps 21 p3418 N84-31680

FLAHERTY, J. E.
Adaptive finite element methods for parabolic partial differential equations
[NASA-CR-174490] 03 p0417 N84-12727
Numerical methods for singularly perturbed differential equations with applications
[AD-A133741] 05 p0734 N84-14821

FLAIM, T.
Wind energy systems for electric utilities: A synthesis of value studies
[DE83-011968] 16 p2512 N84-26121
Wind energy systems for electric utilities: A synthesis of value studies
[DE84-004520] 21 p3435 N84-31796

FLAMANT, P.
Spaceborne lidar applications to meteorology and environmental studies 24 p3904 N84-34725
An ER-2 aircraft airborne lidar as part of the development program of a spaceborne system: A potential NASA/CNES cooperative project 24 p3907 N84-34744

FLANAGAN, G. V.
Composite laminate weight optimization on the Timex-Sinclair 1000 microcomputer
[AD-A130214] 01 p0121 N84-10789
Composite laminate weight optimization on the HX-20
[AD-A133490] 06 p0799 N84-15207
Composite laminate weight optimization on the sharp PC-1500 pocket computer
[AD-A133348] 07 p0968 N84-16272
Development and application of optimization techniques for composite laminates
[AD-A135832] 09 p1276 N84-18330

FLANAGAN, P. F.
Shuttle flight pressure instrumentation: Experience and lessons for the future 01 p0026 N84-10167

FLANDERMEYER, B. K.
Redox behavior of high temperature electrodes 11 p1741 N84-21359

FLANDERS, H. D.
Characterization of macrosegregation in ESR IN-718 24 p3882 N84-34598

FLANDRIN, J. C.
Statistical method for the calculation of the coverage of the celestial sphere including Sun, Moon and Earth constraints (analysis document)
[MATRA-CMT-RT101/016] 23 p3839 N84-34354

FLANDRO, G. A.
Generation of vehicle wobbling by the unsteady flow field in a spinning solid propellant rocket motor 13 p1945 N84-22648

FLANIGAN, D. A.
Deuterium isotope effects in HMX thermochemical mechanisms: Decomposition, deflagration, and combustion 13 p1950 N84-22680

FLASHNER, H. K.
ACOSS Fourteen (Active Control of Space Structures)
[AD-A133411] 06 p0795 N84-15181

FLATHER, R. A.
Routine storm surge forecasting using numerical models: Procedures and computer programs for use on the CDC CYBER 205E at the British Meteorological Office
[IOS-167] 18 p2891 N84-28353

FLAUGHER, J. G.
Simulated 3-dimensional computer graphics training display for air weapons controllers. Volume 2: Users guide
[AD-A141336] 19 p3075 N84-29510
Simulated 3-dimensional computer graphics training display for air weapons controllers, volume 1
[AD-A141347] 19 p3075 N84-29511

FLAUM, M.
Cutting of fiber reinforced polymers with a CW CO-2 laser: An experimental study
[FOA-C-20527-D9] 19 p3030 N84-29220

FLAVENOT, J. F.
The hole drilling method for residual stress distribution measurement
[CETIM-100730] 21 p3424 N84-31720

FLAVILL, R. P.
Multiple-foil microabrasion package (A0023) 15 p2276 N84-24666

FLECHNER, S.
KC-135 wing and winglet flight pressure distributions, loads, and wing deflection results with some wind tunnel comparisons 18 p2787 N84-27688

FLEETER, R.
Atomization and combustion performance of antimisting kerosene and jet fuel
[NASA-CR-174507] 07 p0980 N84-16353
Antimisting fuel breakup and flammability
[NASA-CR-174508] 07 p0981 N84-16354

FLEETER, R. D.
Apparatus analysis and preliminary design of low gravity porous solids experiment for STS Orbiter mid-deck
[NASA-CR-168248] 01 p0017 N84-10109
Raman spectroscopy measurements of flame quenching in a duct-type crevice, appendix B
[DE84-009328] 21 p3362 N84-31329

FLEETER, S.
Research on aero-thermodynamic distortion induced structural dynamic response of multi-stage compressor blading
[AD-A133853] 05 p0632 N84-14151

FLEIG, A. J.
User's guide for SBUV/TOMS ozone derivative products
[NASA-RP-1116] 07 p1036 N84-16720

FLEISCHAUER, P. D.
Chemical deposition of SiO2 on InP
[AD-A138355] 12 p1914 N84-22472
Tricresyl phosphate retention by bearing retainer and reservoir materials
[AD-A143842] 23 p3724 N84-33598

FLEISCHER, H.
The implementation and use of multivalued logic in a VLSI environment
[AD-P002344] 14 p2191 N84-24135

FLEISCHHACKER, P.
Energy and peak power saved by passively cooled residences 16 p2513 N84-26130

FLEISCHMANN, A.
Is critical path planning the answer 05 p0718 N84-14705

FLEISCHMANN, C.
Error margins by segmentation of speech signals with autocorrelation procedures for linear prediction coding systems
[FI-13-TBR-17] 16 p2481 N84-25911

FLEISHMAN, E. A.
Validation of the military entrance physical strength capacity test
[AD-A142169] 19 p3066 N84-29451
Analysis of computer interactive tests for assigning helicopter pilots to different missions
[AD-A142434] 20 p3262 N84-30696

FLEISHMANN, M.
Electrochemistry at the molecular level
[AD-A140070] 15 p2287 N84-24723

FLEISS, J.
Management overview of the benefits of efficient JOVIAL J73/1750A software tools
[AD-P003519] 21 p3329 N84-31123

FLEMING, D. K.
Systems analysis of electricity production from coal using fuel cells
[NASA-CR-173157] 07 p1026 N84-16645

FLEMING, D. P.
Dual clearance squeeze film damper
[NASA-CASE-LEW-13506-1] 13 p1932 N84-22562
Dual clearance squeeze film damper for high load conditions
[NASA-TM-83619] 15 p2343 N84-25084

FLEMING, E. A.
A preliminary assessment of LANDSAT-4 Thematic Mapper data 20 p3208 N84-30377

FLEMING, M. D.
Land cover and terrain mapping for the development of digital data bases for wildlife habitat assessment in the Yukon Flats National Wildlife Refuge, Alaska 14 p2166 N84-23971

FLEMING, M. M.
An internal review and operational trial of a human factors engineering self-paced course in accordance with the instructional systems development process
[AD-A140011] 15 p2385 N84-25301

FLEMING, P.
An application of nonlinear programming to the design of regulators of a linear-quadratic formulation
[NASA-CR-172253] 04 p0515 N84-13380

FLEMING, R. C.
MIL-STD-1750A as a spaceborne instruction set architecture
[AD-P003554] 21 p3334 N84-31158

FLEMING, W. H.
Optimal control of Markov processes
[AD-A129296] 01 p0136 N84-10894

FLEMING, W. J.
Active mixer with dual gated FET
[INPE-2744-TDL/135] 10 p1484 N84-19704
FLESCH, T.
Flat plate heat pipe collectors made by roll bonding
[BMFT-FB-T-83-202] 10 p1495 N84-19778
Selective coating heat pipe collector adaptation to solar energy plants
[BMFT-FB-T-84-054] 19 p3025 N84-29187
FLESCH, T. R.
Interfacing a two-stage image intensifier tube to an echelle spectrograph 06 p0929 N84-16035
FLETCHER, A. D.
Reducing risk in seaways 08 p1102 N84-17163
FLETCHER, A. N.
Electrochemical reduction reactions involving formic acid
[AD-A139479] 14 p2123 N84-23721
FLETCHER, E. A.
High temperature oxide electrolytes for the splitting of water. The ROC process 11 p1740 N84-21351
High temperature oxide electrolytes for the splitting of water--the ROC process
[AD-A140881] 17 p2620 N84-26765
FLETCHER, G.
Theoretical studies of solids under extreme conditions
[AD-A139352] 14 p2132 N84-23778
FLETCHER, J.
Layout considerations and types of V/STOL aircraft 16 p2436 N84-25629
FLETCHER, J. G.
Serial link protocol design: A critique of the X.25 standard, level 2
[DE84-002724] 20 p3278 N84-30806
FLETCHER, J. R.
Monitored retrievable storage program. Status and plans for meeting NWPA requirements
[DE84-008680] 18 p2931 N84-28585
FLEURY, A. D.
Objectives: Activities and needs of the digital simulation laboratory, attitude and orbit control systems, and the thermal control laboratory of the space mechanics and control department
[INPE-3174-RPE/459] 23 p3833 N84-34311
FLEYSHER, V. G.
Detecting optical polarization of nuclei in semiconductors with super-conducting quantum interferometer 20 p3286 N84-30865
FLIERL, G. R.
The impact of Gulf Stream rings upon the Slope Water
[AD-P002662] 11 p1691 N84-21027
FLIGG, C., JR.
En route/terminal ATC (Air Traffic Control) operations concept
[AD-A138991] 13 p1929 N84-22550
FLIMONOV, Y. P.
Heating and melting low-melting ferroalloys and hardeners in molten steel
[BLL-M-35219-(5828.4)] 01 p0040 N84-10256
FLINN, D. R.
Acidic deposition and the corrosion and deterioration of materials in the atmosphere: A bibliography, 1680 - 1982
[PB83-236091] 01 p0047 N84-10302
Structure and porosity of electrodeposited platinum: Evaluation of 4 plating methods
[PB84-152933] 14 p2129 N84-23763
FLINN, J. E.
Processing and consolidation of rapidly solidified alloys: A technology assessment
[DE84-014673] 22 p3557 N84-32523
FLINT, B. K.
Investigation of soft X-ray reflective coatings
[DE84-000510] 04 p0610 N84-14025
FLIPPEN, L. D., JR.
Electrohydrodynamics 01 p0089 N84-10578
FLIPSE, W. J., JR.
Water resources data for New York, water year 1982. Volume 2: Long Island
[PB84-119536] 09 p1339 N84-18742
FLOCK, W. L.
Propagation effects on satellite systems at frequencies below 10 GHz, a handbook for satellite systems design, 1st edition
[NASA-RP-1108] 04 p0517 N84-13397
FLOOR, C.
The storm of 12 May 1983, Ascension day
[KNMI-TR-44(CWD)] 10 p1541 N84-20096
Forecasting the windstorm of 12 May 1983 (Acension Day)
[KNMI-TR-43] 13 p2017 N84-23079
FLOR, T. H.
Poststorm reconnaissance of Tropical Storm Chris
[AD-A131948] 03 p0411 N84-12688
FLORA, C. C.
Integrated Application of Active Controls (IAAC) technology to an advanced subsonic transpot project-demonstration act system definition
[NASA-CR-165920] 19 p2967 N84-28804
FLORENCE, A. L.
Dynamic pulse buckling, theory and experiment. Handbook
[AD-A130910] 01 p0095 N84-10621
FLORES, C., JR.
Software control and system configuration management: A systems-wide approach
[NASA-TM-85908] 21 p3328 N84-31112
FLORES, F.
Electronic properties of semiconductor interfaces
[AD-A130745] 01 p0152 N84-11002
FLORES, J.
Comparison of the full potential and Euler formulations for computing transonic airfoil flows
[NASA-TM-85983] 21 p3324 N84-31094
FLORES, R. J.
Use of desktop computers for data acquisition
[DE83-014277] 02 p0270 N84-11768
FLORINSKIY, Y. B.
Comparative estimate of cyclic strength of welded joints in titanium alloys 24 p3876 N84-34561
FLORIO, U. G.
An approach to logistic problems by the L-transform method 06 p0906 N84-15884
The life cycle cost of integrated logistic support 17 p2652 N84-26962
FLORSCHUETZ, L. W.
Forced convection heat transfer to air/water vapor mixtures
[NASA-CR-3769] 07 p1000 N84-16488
FLOSDORFF, H.
Projects and programs as a reflection of the performances of engineers in aircraft making by Hans-Wocke
[MBB-UT-24-83-O] 16 p2433 N84-25608
FLOUZAT, G.
Investigation of texturing functions. Application to ecographical zoning and to mapping land use in a sloping basin: The Aveyron
[CESR-83-1089] 23 p3784 N84-34001
FLOWER, D. A.
Experimental validation of a millimeter wave radar technique to remotely sense atmospheric pressure at the Earth's surface 23 p3775 N84-33935
FLOWER, H. M.
The role of hydrogen in the stress corrosion failure of high strength Al-Zn-Mg alloys
[AD-A136212] 09 p1284 N84-18388
FLOWER, M.
Geology hydrology and mineral resources of crystaline rock areas of Northeastern US
[DE84-013671] 21 p3432 N84-31774
Geology, hydrology, and mineral resources of crystalline rock areas of the northeastern United States
[DE84-013672] 22 p3614 N84-32901
Crystalline rocks of the Northeastern United States
[DE84-013673] 22 p3624 N84-32962
Crystalline rocks of the Lake Superior region, United States, part 2
[DE84-014802] 23 p3799 N84-34087
FLOWER, P. J.
Ages of extragalactic intermediate-age star clusters
[NASA-CR-173927] 23 p3840 N84-34360
FLOYD, R. A.
The ROE file system
[AD-A140497] 16 p2567 N84-26473
FLUECK, J. A.
Continuing design, review and analysis work for the Sierra Cooperative Pilot Project
[PB84-143627] 11 p1688 N84-21012
FLUESMEIER, A. L.
Trace analysis in quartz
[AD-A142425] 20 p3148 N84-29988
FLUORNOY, J. M.
Interactive modeling of scintillation pulses by visual overlay of computed pulse shapes with the raw data
[DE83-012668] 01 p0124 N84-10805
FLURKEY, A. J.
Depositional environment and petrology of the Medicine Peak Quartzite (early proterozoic), southern Wyoming 21 p3441 N84-31829
FLYNN, E. T.
Efficiency of high-frequency ventilation as determined by nitrogen washouts: A model study
[AD-A131331] 02 p0265 N84-11745
FLYNN, F. P.
Spectrum resource assessment in the 162-174 MHz frequency band
[PB84-210244] 22 p3578 N84-32667
FLYNN, G. W.
Research investigation directed toward extending the useful range of the electromagnetic spectrum
[AD-A142209] 19 p3007 N84-29064
FLYNN, K. F.
Surplus Facilities Management Program. Post-remedial-action survey report for SNAP-8 Experimental Reactor Facility, building 010 site, Santa Susana Field Laboratories, Rockwell International, Ventura County, California
[DE84-009591] 21 p3497 N84-32165
FLYNN, M. J.
Directly executed languages
[AD-A130704] 01 p0122 N84-10794
FLYNN, T.
Geologic and hydrologic research on the Moana geothermal system, Washoe County, Nevada
[DE84-012409] 21 p3431 N84-31770
FO-SUN, V.
Study of the interaction of organomagnesium compounds with the salts of heavy metals and the use of organomagnesium compounds and their complexes as initiators of polymerization
[BLL-M-28720-(5828.4)] 02 p0198 N84-11292
FOA, J. V.
Research on nonsteady flow induction
[AD-A133894] 05 p0680 N84-14468
FOCKE, K. C.
Acoustic attenuation in ocean sediments found in shallow water regions
[AD-A140869] 17 p2763 N84-27550
FODOR, J. A.
Linguistics 22 p3684 N84-33359
FOELL, H.
The S-Web technique for high-speed growth of Si sheets 18 p2937 N84-28629
A high-speed characterization technique for solar silicon 18 p2939 N84-28641
FOEPPL, H.
Colored bubbles: An experiment for triggering equatorial spread F 05 p0640 N84-14212
FOERSTER, E.
Measures for the improvement of the continuous casting procedure (electromagnetic stirring)
[BMFT-FB-T-83-138] 02 p0207 N84-11348
FOERSTNER, W.
Reliability and discernability of extended Gauss-Markov models 16 p2505 N84-26076
FOGARTY, W. G.
Quenchings and outbursts of extragalactic radio sources: Nine years of 3.3-mm measurements and comparisons with centimeter-wave variations
[AD-A138233] 13 p2092 N84-23550
FOGEL, E.
ACOSS eleven (Active Control Of Space Structures), volume 1
[AD-A135675] 09 p1273 N84-18311
Feedback in robotics for assembly and manufacturing
[PB84-177112] 17 p2675 N84-27044
FOGELSON, D. J.
Carbon piezoresistive stress gauge
[DE83-016505] 02 p0224 N84-11470
FOGG, T. R.
Boron in the marine atmosphere 13 p2010 N84-23038
FOGLE, W. E.
Specific heat of He-3 in the Fermi-liquid region
[DE83-014858] 08 p1162 N84-17566
FOGLER, R. J.
Second-order adaptive infinite impulse response filter
[DE84-001768] 06 p0831 N84-15406
Detection of multiple sinusoids using an adaptive cascaded structure
[DE84-005521] 11 p1645 N84-20753
FOHLEN, G. M.
Elastomer-modified phosphorus-containing imide resins
[NASA-CASE-ARC-11400-1] 05 p0657 N84-14322
Process for preparing phthalocyanine polymers
[NASA-CASE-ARC-11511-1] 07 p0966 N84-16259
Amine terminated bisaspartimides, process for preparation thereof, and polymers thereof
[NASA-CASE-ARC-11421-1] 07 p0978 N84-16340
Fire and heat resistant laminating resins based on maleimido substituted aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-1] 13 p1953 N84-22697
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-3] 13 p1961 N84-22745
Metal phthalocyanine polymers
[NASA-CASE-ARC-11405-1] 18 p2817 N84-27884
FOISY, P.
Choice of a melting installation for aluminum alloy
[BLL-OA-TRANS-3095-(6196.3)] 06 p0804 N84-15239

FOITZIK, R.
Stabilized luminous arcs (rotating arcs) in nitrogen and carbon dioxide at pressures of one to forty atmospheres
[NASA-TM-77506] 19 p3012 N84-29095
FOK, Y. S.
Stream-water storage in the ocean using an impermeable membrane
[PB83-248369] 04 p0517 N84-13394
FOKEYEV, L. G.
Optimum synthesis of stepped second class phase-shifters 22 p3566 N84-32587
FOLEY, D.
Water geochemistry of hydrothermal systems, Wood River District, Idaho
[DE84-012190] 21 p3431 N84-31769
FOLEY, G. E.
Characterization of cumulative damage in composites during service 01 p0033 N84-10210
FOLEY, J.
Development of theoretical models and analyses of the micro-physics of cloud and precipitation systems
[AD-A133557] 06 p0882 N84-15735
FOLEY, K. J.
Operation of the Brookhaven MPS Facility
[DE83-015383] 03 p0441 N84-12896
FOLEY, M. J.
SSME structural dynamic model development
[NASA-CR-170960] 08 p1121 N84-17287
A simulation model to evaluate aircraft survivability and target damage during offensive counterair operations
[AD-A141324] 18 p2793 N84-27728
FOLEY, R.
Development of high strength braze joints in beryllium
[DE84-007243] 13 p1998 N84-22964
FOLEY, R. T.
The localized corrosion of aluminum alloys: A review
[AD-A132582] 04 p0498 N84-13269
Clarification of environmental effects in stress corrosion cracking
[AD-A138581] 13 p1960 N84-22737
FOLEY, W. H.
Study of aerodynamic technology for single-cruise-engine VSTOL fighter/attack aircraft, phase 1
[NASA-CR-166268] 18 p2788 N84-27693
FOLINO, F. A.
Solar energy concentrator system
[AD-D011149] 23 p3785 N84-34004
FOLKESTAD, K.
The electron and ion spectra of radar returns from the critical height during ionospheric heating experiments 05 p0636 N84-14185
Capabilities and limitations of EISCAT as an MST radar 17 p2690 N84-27129
FOLKIERSKI, A.
The Z-pinch program at Imperial College 10 p1583 N84-20372
FOLLANSBEE, P. S.
New experimental techniques with the split Hopkinson pressure bar
[DE84-003818] 20 p3190 N84-30268
FOLLE, M. I.
Wave drag of elongated astroid bodies at moderate supersonic flight velocities 13 p1972 N84-22797
FOLLIN, J. W.
The APL RCS (Radar Cross Section)/statistics code description, illustrations of output, and user's guide
[AD-A142929] 21 p3386 N84-31490
FOLLSTAEDT, D. M.
Microstructures of pulse-melted Fe-Ti-C alloys
[DE83-015213] 01 p0155 N84-11024
Measurement of precipitate nucleation times in molten metals by pulsed surface melting
[DE84-002383] 05 p0656 N84-14311
Microstructures of stainless steels exhibiting reduced friction and wear after implantation with Ti and C
[DE84-002252] 07 p0975 N84-16318
Friction and wear reduction of 440C stainless steel by ion implantation
[DE84-003255] 08 p1133 N84-17371
FOLTING, K.
Reactions of metal-metal multiple bonds. Part 14: Synthesis and characterization of triangulo-W3 and Mo2W-oxo capped alkoxide clusters. Comproportionation of M-M triple bonds, sigma(2)pi(4) and d(o) Metal-oxo groups: M triple bond M + M triple bond O yields M3(micron 3-O)
[AD-A141067] 19 p2987 N84-28930
FOMICHEVA, O. F.
Electrical characteristics of metal-dielectric-semiconductor systems produced on epitaxial silicon structures with various dielectrics 21 p3479 N84-32052
FOMIN, A. A.
Time characteristics of search for compound signals with respect to delay 17 p2634 N84-26851
FOMIN, N. A.
A shock tube study of chlorine azide decomposition 13 p1958 N84-22728
The onset of detonation behind incident shock waves in chlorine azide-argon mixtures 13 p1990 N84-22921
FOMIN, S. G.
Use of theory of systems with dispersed parameters to formulate deformation resistance equations in pressure working of metals: Communication 2
[BLL-M-35595-(5828.4)] 21 p3363 N84-31337
FOMIN, V. V.
Altitudinal change in continuous absorption in atmospheric transparency window 8-12 microns 11 p1670 N84-20901
FOMINYKH, A. A.
Nature of formation of stopper defect in hoisting ropes
[BLL-M-35544-(5828.4)] 17 p2674 N84-27036
FONDEN, B. P.
Investigations concerning improvements of the SAAB 37 windshield birdstrike resistance
[AD-P003217] 17 p2595 N84-26630
FONG, F.
Identification of a volatile phytotoxin from algae 09 p1358 N84-18876
FONG, F. K.
In vitro chlorophyll photosynthetic reaction
[PB84-104892] 08 p1196 N84-17810
FONG, W. S.
Supercritical multicomponent solvent coal extraction
[NASA-CASE-NPO-15767-1] 07 p0965 N84-16255
FONG, Z. S.
Theoretical studies of solar-pumped lasers
[NASA-CR-173283] 08 p1164 N84-17576
Theoretcial studies of solar-pumped lasers
[NASA-CR-173833] 20 p3192 N84-30274
FONSECA, G. F.
Effectiveness in reducing heat stress of three conditioned-air cooling vests worn with and without cooling air supplied to a face piece
[AD-A131975] 03 p0417 N84-12726
Effectiveness of two portable liquid-cooled undergarments in reducing heat stress
[AD-A133174] 06 p0893 N84-15801
FONSTAD, C. G.
Optics and quantum electronics 22 p3682 N84-33343
FONT, S.
Long life communication satellites: Electric power supply during the eclipse period
[NASA-TM-77351] 07 p0965 N84-16253
FONTANA, J. J.
The effect of moisture on the physical and durability properties of methyl methacrylate polymer concrete
[DE83-016733] 03 p0390 N84-12541
FONTANA, R. B.
Study of advanced signal processing and calibration for IRES (infrared sensors)
[REPT-458-DT-5] 12 p1782 N84-21628
FONTANA, T.
Conformal array analysis
[AD-P003504] 21 p3384 N84-31472
FONTANELLA, J. J.
Dielectric relaxation in poly(ethylene oxide) complexed with alkali metal perchlorates
[AD-A134464] 07 p0970 N84-16284
Effect of pressure on conductivity in Poly(Ethylene oxide) complexed with alkali metal salts
[AD-A134562] 07 p0970 N84-16285
Ion implantation in polymers
[AD-A134482] 07 p0979 N84-16342
Ion conduction poly(vinyl acetate)
[AD-A142249] 19 p3096 N84-29660
Electrical and differential scanning calorimetry studies of poly(ethylene oxide) complexed with alkaline earth thiocyanates
[AD-A143198] 22 p3546 N84-32449
Association and bound motion in alkali metal doped cadmium fluoride
[AD-A143200] 22 p3546 N84-32450
NMP, electrical relaxation, and high pressure electrical conductivity in ion conducting polymers
[AD-A143202] 22 p3546 N84-32451
Electrically conducting poly(vinyl acetate)
[AD-A143199] 22 p3559 N84-32538
Anomalous pressure dependence of dipolar relaxation times in rare earth doped lead fluoride
[AD-A143201] 22 p3662 N84-33215
FONTECHA, J. L.
Development of a slotted waveguide array panel for SAR antenna: Electrical design and testing
[IEC-MO-80/11] 23 p3732 N84-33656
FONTOYNONT, M.
The predicted impact of linear roof apertures on the energy performance of office buildings 16 p2514 N84-26133
FOO, B. Y.
Polarization utilization in radar target reconstruction: C-wide (Multi-frequency) band relationship of a target's characteristic operators with its unique set of natural eigenfrequencies
[AD-A140092] 15 p2321 N84-24936
FOO, Y. K.
Representations of uncertainty and robustness
[OUEL-1489/83] 12 p1892 N84-22322
Adequate/inadequate representations of uncertainty and their implications for robustness analysis
[OUEL-1496/83] 12 p1892 N84-22323
Representation of uncertainty and robustness tests for multivariable feedback systems
[OUEL-1517/84] 19 p3091 N84-29627
Extensions of the small-mu test for robust stability
[OUEL-1518/84] 19 p3091 N84-29628
An H sup inf minimax approach to the design of robust control systems
[OUEL-1520/84] 19 p3091 N84-29629
A robustness test for distributed feedback systems
[OUEL-1522/84] 19 p3091 N84-29630
FOOS, J. S.
High energy density lithium primary cells using nitrogen containing polymer positives
[AD-A137377] 10 p1529 N84-20018
Long cycle life secondary lithium cells utilizing tetrahydrofuran
[AD-A140762] 17 p2723 N84-27331
FOOTE, J. H.
Chemical and isotopic measurements of micrometeoroids by secondary ion mass spectrometry (A0187-2) 15 p2276 N84-24670
FOOTE, K.
Contrast between natural and experimentally controlled fires in forced ventilated enclosures
[DE83-013038] 01 p0057 N84-10373
FORBERG, J.
Preliminary report of HF (High-Frequency) radar measurements of surface currents East of the Strait of Gilbraltar near Marbella, Spain: October 7-22, 1982, part 1
[PB84-154244] 14 p2183 N84-24083
Preliminary report of HF radar measurements of surface currents east of the Strait of Gibraltar near Marbella, Spain, 7-22 October 1982, part 2
[PB84-183664] 20 p3251 N84-30637
FORBES, G. S.
Development of a technique for short-term prediction of hydrometeors using advection and physical forcing
[AD-A132259] 04 p0567 N84-13740
Organized microscale structure of the windstorm of 12 May 1983 in Utrecht and vicinity
[KNMI-TR-36] 05 p0709 N84-14647
The storm of 12 May 1983, Ascension day
[KNMI-TR-44(CWD)] 10 p1541 N84-20096
Forecasting the windstorm of 12 May 1983 (Acension Day)
[KNMI-TR-43] 13 p2017 N84-23079
FORBES, J. M.
MST radar detection of middle atmosphere tides 17 p2682 N84-27079
FORCHHAMMER, P.
Corrosion damage in metallic materials without mechanical loading 14 p2126 N84-23744
FORD, A.
Progress in numerical calculations of ion-atom collisions
[DE84-003405] 08 p1229 N84-18033
Learning from numerical calculations of ion-atom collisions
[DE84-003265] 08 p1229 N84-18035
FORD, A. B.
The Duffek intrusion of Antarctica and a survey of its minor metals related to possible resources 14 p2161 N84-23943
Crystallization of the Duffek intrusion, Antarctica 14 p2161 N84-23944
FORD, B.
Guidelines for Man/Display interfaces with relevance to military environments
[AD-A142171] 19 p3071 N84-29482
FORD, D. G.
Calibration of CT-4A fatigue test article, March 1983
[AD-A142880] 21 p3328 N84-31115
FORD, F. E.
Assessment of potential for batteries in space applications 03 p0346 N84-12246
FORD, G. E.
LANDSAT-D thematic mapper image dimensionality reduction and geometric correction accuracy
[E84-10011] 02 p0236 N84-11549
LANDSAT-D Thematic Mapper image dimensionality reduction and geometric correction accuracy
[E84-10149] 16 p2508 N84-26097

FORD, H.
Extent of hearing loss among Army aviators at Fort Rucker, Alabama
[AD-A132069] 03 p0415 N84-12714
Nonlinear transformat
[NASA-CR-166506] 06 p0905 N84-15877

FORD, J. P.
The SIR-A atlas 07 p0989 N84-16405

FORD, S. J.
CIM's bridge from CADD to CAM: Data management requirements for manufacturing engineering 12 p1889 N84-22301

FORD, T. S.
Quality-assurance tests of five Y-12 Kevlar-49 spools used to fabricate strands and reliability specimens for stress-rupture tests
[DE84-012373] 21 p3357 N84-31295

FORD, W. F.
Acceleration of convergence of vector sequences
[NASA-TP-2193] 04 p0588 N84-13885

FORD, W. T.
Mathematical methodology for evaluating simulation of flow in porous media
[DE84-004775] 09 p1316 N84-18601

FORDYCE, J. S.
Space power technology into the 21st Century
[NASA-TM-83690] 17 p2616 N84-26746
The potential impact of new power system technology on the design of a manned space station
[NASA-TM-83770] 21 p3354 N84-31272

FORDYCE, S. W.
Study to forecast and determine characteristics of world satellite communications market
[NASA-CR-168270] 07 p0991 N84-16426

FOREMAN, A.
Mathematical algorithms to maximize performance in numerical weather prediction 10 p1558 N84-20209

FOREMAN, T. L.
Ray modeling methods for range dependent ocean environments
[AD-A137202] 10 p1569 N84-20278

FORESTI, C.
Urban land use of the Sao Paulo metropolitan area by automatic analysis of LANDSAT data
[E84-10069] 07 p1020 N84-16616
Application of LANDSAT data to the study of urban development in Brasilia
[E84-10142] 16 p2507 N84-26090
The use of an image registration technique in the urban growth monitoring
[E84-10147] 16 p2508 N84-26095

FORESTIERI, A. F.
Solar-array-materials passive LDEF experiment (A0171) 15 p2274 N84-24656
Advanced photovoltaic experiment (S0014) 15 p2274 N84-24657
Space station 19 p3049 N84-29344

FORET, J. L.
Thermal control of the SPOT platform 10 p1441 N84-19411

FORGHAM, J. L.
Optical support Hartmann sensor optical simulation
[AD-A142525] 20 p3300 N84-30955

FORKNER, B. L.
Ball-on-block impact-spalling wear test and results on several iron alloys
[PB84-115633] 09 p1319 N84-18615

FORMAGGIO, A. R.
Spectral behavior of four soils from the state of Sao Paulo at the orbital, field, and laboratory levels
[INPE-2878-TDL/144] 02 p0239 N84-11566
Principal components technique analysis for vegetation and land use discrimination
[E84-10135] 16 p2506 N84-26083

FORMAN, R.
Ion sputter textured graphite electrode plates
[NASA-CASE-LEW-12919-2] 18 p2928 N84-28565

FORMAN, S. E.
Materials, Processes and Testing Laboratory. Summarizing module performance at MIT Lincoln Laboratory experimental photovoltaic test sites, 1977 - 1982
[DOE/ET-20279/188] 16 p2512 N84-26122

FORMERY, M.
A finite difference method for inverse mode calculations of a three-dimensional boundary layer
[AD-B071559] 16 p2488 N84-25958

FORMICA, W. J.
Test application of a semi-objective approach to wind forecasting for wind-energy applications
[DE83-016641] 02 p0256 N84-11676

FORMISANO, B. D.
Porosity decrease in laser welds of stainless steel using plasma control
[DE84-002194] 05 p0688 N84-14521

FORMISANO, V.
The structure of the plasma sheet-lobe boundary in the Earth's magnetotail
[NASA-TM-85434] 03 p0463 N84-13049
An oscillating capacity electrometer for space applications
[IFSI-84-6] 18 p2807 N84-27823

FORNAESS, J. E.
A result on extension of C.R. functions 14 p2210 N84-24270

FORNALIK, M. S.
Mitigation of biofouling using coatings
[DE84-006112] 11 p1693 N84-21041

FORNBERG, B.
Steady viscous flow past a circular cylinder 10 p1560 N84-20223

FORNES, R. E.
Effects of high energy radiation on the mechanical properties of epoxy graphite fiber reinforced composites
[NASA-CR-173293] 08 p1122 N84-17292

FOROUHAR, S.
Fabrication and evaluation of chirped grating lenses in lithium niobate waveguides
[AD-A137103] 10 p1579 N84-20345

FORREST, J. R.
High precision phase shifting techniques
[AD-A138397] 12 p1807 N84-21783

FORREST, K.
Engineering and design properties of thallium-doped sodium iodide and selected properties of sodium-doped cesium iodide
[NASA-RP-1131] 23 p3726 N84-33613

FORREST, M. J.
Laser light scattering from density fluctuations in the Culham focus 10 p1584 N84-20383

FORRESTER, D. L.
Qualification testing for a central station 22 p3585 N84-32706

FORSBECK, A.
Explosion and fire hazards in an oil-oxygen system
[FOA-C-20507-D1] 08 p1101 N84-17159

FORSBERG, C. A.
Observations of major stratospheric chlorine species
[AD-A138646] 13 p2011 N84-23045

FORSLUND, D. W.
Investigation of laminar shocks
[DE84-010074] 20 p3242 N84-30582
Plasma simulation studies of electron acceleration for beat wave and single frequency-laser heating schemes
[DE84-009988] 20 p3305 N84-30992

FORSMAN, W. C.
Structure and properties of intercalated graphite fiber-polymer composites
[AD-A130632] 01 p0032 N84-10198

FORSS, R.
Swedish Air Force maintenance programme for aged transparent enclosures for jet trainer and jet fighter aircraft
[AD-P003208] 17 p2593 N84-26621

FORSTEN, J.
A microstatistical model for carbide induced cleavage fracture
[VTT-RR-220] 07 p1017 N84-16599

FORSTER, F. A.
Ultraviolet curable resin system for rapid runway repair
[AD-A130364] 01 p0016 N84-10104
Heat: Initiated furan resin for rapid runway repair
[AD-A140902] 17 p2611 N84-26713

FORSTER, P. J. G.
Work at high altitude: A clinical and physiological study at the United Kingdom Infrared Telescope, Mauna Kea, Hawaii
[REPT-11] 12 p1864 N84-22147

FORSYTH, J. M.
Development of X-ray laser media. Measurement of gain and development of cavity resonators for wavelengths near 130 angstroms, volume 1
[AD-A136305] 09 p1320 N84-18621
Development of X-ray laser media. Measurement of gain and development of cavity resonators for wavelengths near 130 angstroms, volume 2
[AD-A136306] 09 p1320 N84-18622
Development of X-ray laser media. Measurement of gain and development of cavity resonators for wavelengths near 130 angstroms, volume 3
[AD-A136307] 09 p1320 N84-18623

FORSYTHE, R. E.
Research in millimeter wave techniques
[NASA-CR-173964] 24 p3893 N84-34655

FORT, A.
Certification experience with methods for minimum crew demonstration 06 p0778 N84-15101

FORTE, V. A., JR.
Naloxone does not affect ventilatory responses to hypoxia and hypercapnia in rats
[AD-A131836] 03 p0414 N84-12708

FORTENBACH, C. D.
A preliminary study of solar powdered aircraft and associated power trains
[NASA-CR-3699] 04 p0486 N84-13194

FORTESCUE, D. N.
Area equivalent method VISICALC (trade name). Users' guide
[AD-A141430] 19 p3084 N84-29572

FORTH, H. J.
Gifford-McMahon refrigerator with split cold head 06 p0820 N84-15346

FORTIN, M.
Closing the gap between aircraft and simulator training with Limited Field-Of-View (LFOV) visual systems
[AD-P003448] 21 p3508 N84-32225

FORTIN, X.
Analysis of experiments on X-ray emission from laser-irradiated targets
[DE84-751157] 24 p3909 N84-34761

FORTNUM, B. C. H.
Waves recorded off the Eddystone lighthouse. Data for September 1978 to August 1981 at position 50 deg 10 min N, 004 deg 15 min W: Summary analysis and interpretation report
[IOS-132] 13 p2019 N84-23090

FORTUNATO, D.
Bifurcation and multiplicity results for nonlinear elliptic problems involving critical sobolev exponents
[AD-A139332] 14 p2219 N84-24315

FORTUNE, M. A.
The severity of the Brazilian freeze of 1981 as monitored in real time by satellite
[INPE-2586-PRE/234] 22 p3625 N84-32967

FORTUNKO, C. M.
Residual stress measurements using shear-horizontal waves from electromagnetic acoustic transducers
[PB84-190636] 20 p3176 N84-30171

FORWARD, R. L.
Alternate propulsion energy sources
[AD-A131939] 03 p0346 N84-12249
Electronic damping of a large optical bench 10 p1514 N84-19914

FORZONO, C. J.
Fuel system O-ring leaks on post P.D.M. (Programmed Depot Maintenance) C-5A aircraft
[AD-A137885] 11 p1606 N84-20519

FOSDICK, R. E.
Transportable GPU (General Processor Units) chip set technology for standard computer architectures
[AD-P003553] 21 p3334 N84-31157

FOSDICK, R. L.
Helical shear of an elastic circular tube with non-convex stored energy 15 p2313 N84-24882

FOSHEE, J. J.
Command Post Modem/Processor (CPM/P)
[AD-P002151] 14 p2138 N84-23816

FOSS, J. F.
Free stream turbulence and density ratio effects on the interaction region of a jet in a cross flow 11 p1611 N84-20546

FOSS, W. E., JR.
Development and analysis of a STOL supersonic cruise fighter concept
[NASA-TM-85777] 13 p1930 N84-22553

FOSSUM, J. G.
Theoretical-experimental analysis of the effects of grain boundaries on the electrical properties of SOI (Silicon-On-Insulator) MOSFETS
[AD-A136975] 10 p1486 N84-19718

FOST, R. B.
Subsonic/transonic stall flutter investigation of a rotating rig
[NASA-CR-174625] 23 p3695 N84-33417

FOSTER, F. G.
Information technology and development series. Volume 2: Informatics and industrial development. Proceedings of the International Conference on Policies for Information Processing for Developing Countries
[AD-A130796] 01 p0162 N84-11063

FOSTER, J. M.
Recent modifications and calibration of the Langley low-turbulence pressure tunnel
[NASA-TP-2328] 18 p2785 N84-27675

FOSTER, J. N.
Technical publications of the NASA Wallops Flight Facility, 1980 through 1983
[NASA-TM-84421] 16 p2566 N84-26467

FOSTER, K. L.
The NEST chemistry computer program: Operations handbook
[AD-A130215] 01 p0121 N84-10788

FOSTER, K. T.
Experimental and model transport and diffusion studies in complex terrain with emphasis on tracer studies
[DE84-013076] 22 p3626 N84-32975

FOSTER, L. M.
The control of float zone interfaces by the use of selected boundary conditions
[NASA-CR-170959] 07 p1079 N84-17017
FOSTER, N. W.
The effect of aircraft age and flying hours on maintenance costs
[AD-A131534] 02 p0169 N84-11114
FOSTER, R. W.
Study of systems and technology for liquid hydrogen production independent of fossil fuels
[NASA-CR-173422] 13 p1965 N84-22768
FOTOPOULOS, N.
Approximations for expected values of normal order statistics with an application to goodness-of-fit
[AD-A139970] 15 p2400 N84-25401
FOTTNER, L.
Design of transonic compressor cascades for minimal shock losses and comparison with test results
07 p0955 N84-16192
FOUDRIAT, E. C.
An operating system for future aerospace vehicle computer systems
[NASA-TM-85784] 16 p2546 N84-26340
FOUKAL, P.
Photometric studies of heat flow at the photosphere
17 p2779 N84-27641
FOUNDS, D. B.
Hybrid vehicle simulation
[AD-A136950] 10 p1594 N84-20445
FOUNTAIN, D. M.
Geophysical consequences of phanerozoic and Archean crustal evolution: Evidence from crustal cross-sections
11 p1679 N84-20955
FOUNTAIN, W. F.
Characteristics of the MSFC, PDS microdensitometer
18 p2840 N84-28026
FOUQUART, Y.
The NEPHOS program: Preliminary results
10 p1536 N84-20061
FOURCADE, J.
Variations in states of alertness during continuous operations at the control post level
11 p1697 N84-21068
Psycho-ergonomic problems presented by the prolonged wearing of gas masks
11 p1698 N84-21073
FOURMAUX, A.
An experimental method for analyzing shock-boundary layer interactions in cascades 07 p0955 N84-16195
FOURNEY, W. L.
Dynamic crack growth in polymers
[AD-P003106] 16 p2467 N84-25811
FOURNIER, D.
Photothermal displacement spectroscopy of surfaces and thin films
[DE83-015957] 03 p0350 N84-12279
FOURNIER, M.
Multiple paths on the ocean surface
06 p0870 N84-15666
FOUSER, J. P.
Tailoring polymer films for solar-collection use, phase 1
[DE83-018117] 03 p0404 N84-12640
FOWKES, F. M.
Corrosion control through a better understanding of the metallic substrate/organic coating/interface
[AD-A139086] 13 p1961 N84-22739
FOWLER, C. M.
Design of a 20-MJ coaxial generator
[DE83-014152] 01 p0073 N84-10481
Megavolt pulse transformer powered by a fast plate generator
[DE83-014189] 03 p0366 N84-12384
FOWLER, D. W.
Analysis of a high-strength concrete model under biaxial compression
[AD-A137050] 10 p1518 N84-19935
FOWLER, J. R.
High temperature adhesives for structural applications: A review
[PNR-90171] 13 p1965 N84-22767
FOWLER, L.
An EPROM-based function generator
04 p0519 N84-13408
FOWLER, R. H.
ATF-1 torsatron studies
[DE84-003314] 09 p1392 N84-19089
FOWLIS, W. W.
Finite-difference fluid dynamics computer mathematical models for the design and interpretation of experiments for space flight
[NASA-TP-2323] 14 p2144 N84-23852
Theoretical analyses of baroclinic flows
24 p3923 N84-34830
Theoretical flow regime diagrams for the AGCE
24 p3923 N84-34831
Laboratory studies of baroclinic instability at small Richardson number 24 p3924 N84-34835
FOX, A. D.
Estimating oceanic rainfall using microwave and GOES infrared satellite data
[PB83-253013] 05 p0709 N84-14648
FOX, B. L.
Estimating time averages via randomly-spaced observations
[AD-A139315] 14 p2214 N84-24295
FOX, D. J.
Application of the graphical unitary group approach to the energy second derivative for CI wave functions via the coupled perturbed CI equations
[DE84-008489] 19 p3112 N84-29772
FOX, G. L.
Nonlinear analysis of a bolted marine riser connector using NASTRAN substructuring
22 p3610 N84-32875
FOX, J. A.
An automated system for characterizing laser pulses
[AD-A138580] 13 p1995 N84-22945
FOX, J. C.
Study of robotics systems applications to the space station program
[NASA-CR-173703] 18 p2807 N84-27819
FOX, J. E.
An introduction to adjoint techniques
[BAE-BT-11172] 13 p2031 N84-23170
FOX, L. J.
The 60-GHz gyrotron development program
[DE83-012922] 02 p0214 N84-11402
Analysis of the output mode from 60 GHz, 200 kW pulsed and CW gyrotrons
[DE84-004586] 10 p1497 N84-19785
First 200 kW CW operation of a GHz gyrotron
[DE84-004573] 10 p1498 N84-19794
60 GHz gyrotron development program
[DE84-006606] 13 p1987 N84-22899
FOX, M. A.
Charge separation on semiconductor surfaces: Basic aspects
[DE84-007214] 14 p2244 N84-24472
FOX, M. S.
Techniques for sensor-based diagnosis
[AD-A133297] 06 p0896 N84-15814
ISIS: A constraint-directed reasoning approach to job shop scheduling
[AD-A133296] 06 p0933 N84-16063
FOX, R.
Fiber optic current probe
[DE84-007964] 19 p3105 N84-29729
FOX, T. W.
A study of atmospheric transmission in the wavelength regions of 0.35 micrometers to 14 micrometers
[AD-A135721] 09 p1302 N84-18510
FOZHKOV, A. V.
High-speed thyristors on weakly doped GaAs
22 p3568 N84-32600
FRAAS, L. M.
High-efficiency solar cells fabricated by vacuum MO-CVD 19 p3047 N84-29329
FRACASSINI, M.
Application of multivariate analysis to the parameters of parameters of astrophysical objects
09 p1408 N84-19199
Discriminant analysis in astronomy
09 p1411 N84-19223
FRADKIN, D. M.
Free charged particle behavior in intense laser fields
[DE84-013700] 22 p3653 N84-33160
FRAEDRICH, W. M.
Integration of fire, flight and propulsion control systems: An overview, retrospective and prospective
03 p0315 N84-12057
FRAGA, W. E.
Implementation of Nisitani's body force method for the solution of notch problems
[AD-A137690] 11 p1668 N84-20881
Comparison of the stress concentration factor of a hole near a circular edge notch with an engineering estimate
[AD-A137691] 11 p1668 N84-20882
FRAGER, G.
An aerodynamic study of combustion in the combustion chambers of turbomachines: Experimental and theoretical approaches 15 p2293 N84-24764
FRAIOLI, A. V.
Steam reforming of fuel to hydrogen in fuel cell
[DE84-011115] 20 p3181 N84-30205
Solid oxide fuel cell having compound cross flow gas patterns
[DE84-014666] 23 p3743 N84-33730
FRAIR, K. L.
A computer study of detonation waves in dispersed powdered high explosives
[AD-A134226] 07 p1054 N84-16627
FRAIR, L.
Continued research on selected parameters to minimize community annoyance from airport noise
[NASA-CR-174807] 04 p0559 N84-13688
FRAME, C. S.
Defect occurrences in the manufacture of large CFC structures and work associated with defects, damage and repair of CFC components 01 p0035 N84-10223
FRAME, D. D.
Satellite data relay and platform locating in oceanography. Report of the In Situ Ocean Science Working Group
[NASA-TM-85443] 12 p1860 N84-22116
FRAME, E. A.
After-test engine inspection of US Army administrative and light-tactical vehicles operated on gasohol and unleaded gasoline
[AD-A137312] 10 p1502 N84-19817
High-temperature lubricants for minimum-cooled diesel engines
[AD-A142426] 20 p3162 N84-30078
FRANCA, L. N. F.
Satellite attitude stability provided by a rotor subjected to difficult operating conditions
[INPE-2747-PRE/323] 10 p1436 N84-19384
FRANCA, Z. M. P. D. S.
Strategies and mechanisms for the diffusion of scientific and technical information: A comparative study
13 p2067 N84-23406
FRANCE, E. P.
Bone mineral analysis of rat vertebrae following space flight: COSMOS 1129
[AD-A133178] 07 p1042 N84-16757
FRANCESCONI, R. P.
Exercise in the heat. Effects of saline or bicarbonate infusion
[AD-A137194] 11 p1696 N84-21061
Influence of hydration level and body fluids on exercise performance in the heat
[AD-A139284] 15 p2380 N84-25281
FRANCIS, C. M.
Antenna tracking mechanism for geostationary satellites 15 p2348 N84-25091
FRANCIS, E. C.
Propellant nonlinear constitutive theory extension: Preliminary results
[AD-A133364] 06 p0812 N84-15287
Solid propellant nonlinear constitutive theory extension
[AD-A139957] 15 p2304 N84-24823
Nonlinear structural characterization of solid propellants 20 p3142 N84-29951
Stress transducer interpretation analysis and stability data 20 p3143 N84-29957
FRANCIS, G.
Relativistic electromagnetic instabilities near electron cyclotron frequency and harmonics
[DE84-009672] 19 p3107 N84-29745
FRANCIS, G. L.
Locally omnigenous tandem-mirror design
[DE84-001605] 04 p0607 N84-14007
Azimuthal electric fields and tandem ambipolarity
[DE84-010843] 21 p3501 N84-32189
FRANCIS, M. S.
An investigation of airfoil dynamic stall with large amplitude motions
[AD-A134230] 07 p0948 N84-16150
FRANCIS, R.
On-orbit performance of LIPS gallium arsenide solar cell experiment 19 p3045 N84-29319
FRANCISCUS, L. C.
Supersonic STOVL aircraft with turbine bypass/turbo-compressor engines
[NASA-TM-83686] 15 p2261 N84-24582
FRANCK, E. U.
Thermal properties of binary aqueous solutions at high temperatures and high pressure
[BMFT-FB-T-83-217] 12 p1794 N84-21701
FRANCK, J. B.
A technique for increasing the optical strength of single-crystal NaCl and KCl through temperature cycling
[AD-A138280] 12 p1820 N84-21867
FRANCKEN, A. J.
Handbook on shock reducing devices
[IWECO-5072311-82-1] 18 p2854 N84-28120
FRANCKO, D. A.
To quench our thirst: The present and future status of freshwater resources of the United States, part 3
[DE83-016791] 03 p0401 N84-12625
FRANCO, F.
Thermal design of Infrared Space Observatory (ISO) payload dual cooling 10 p1442 N84-19417

FRANCO, G.
Vibration Control Of Space Structures VCOSS B: Momentum exchange and truss dampening
[AD-A139910] 15 p2281 N84-24701
FRANCO, J.
Some theoretical studies of the interstellar medium
02 p0306 N84-12006
FRANCO, M.
IUE spectra of three A0 V stars rotating close to their break-up velocity: HD 119921, HD 129685, HD 181296
24 p3975 N84-35172
FRANCO, M. L.
Use of high resolution IUE spectra of MG 2 in cool stars to probe the local interstellar medium
24 p3973 N84-35156
FRANCO, P. J.
Calibration of laboratory bioassays with results from microcosms and ponds
[DE83-017224] 04 p0560 N84-13692
FRANCZAK, D. B.
Digital processing and absolute calibration of a stripmap synthetic aperture radar 23 p3778 N84-33954
FRANDSEN, A.
Experimental spherical near field antenna test facility, phase 3. Volume 2: Study of an offset reflector antenna with a sagging feed support
[S-179-01-VOL-2] 12 p1809 N84-21794
FRANEK, F.
Development of a method for wear measurement of thermoplast journal bearings
[OEFZS-4271] 18 p2849 N84-28093
FRANK, A. M.
Fabry-Perot velocimetry techniques: Is Doppler shift affected by surface-normal direction?
[DE83-015902] 02 p0224 N84-11472
FRANK, C. F., JR.
A MIL-STD-1750A computer employing the MDAC (McDonnell Douglas Astronautics Corporation) CMOS-SOS chipset
[AD-P003550] 21 p3334 N84-31154
FRANK, D. J.
Transient response of superconducting microbridges to supercritical currents
[AD-A130913] 01 p0153 N84-11007
FRANK, H.
Characterization of glass fiber separator material for lithium batteries 23 p3736 N84-33674
Kinetics of open circuit processes in undischarged Li/SOCl2 cells
[CONTRIB-336] 23 p3736 N84-33675
FRANK, J.
Decision rules applied to spread spectrum signal detection
[AD-A144253] 24 p3894 N84-34661
FRANK, J. A.
Assessment of fuel cell propulsion systems
[DE84-006323] 15 p2420 N84-25536
FRANK, K. H.
Fatigue behavior of longitudinal transverse stiffener intersection
[PB84-202092] 22 p3612 N84-32887
Fatigue behavior of welded joints subjected to variable amplitude stresses
[PB84-207620] 22 p3612 N84-32888
FRANK, L. A.
High-altitude observations of an intense inverted-V event
[NASA-CR-174468] 01 p0104 N84-10678
Currents in the Earth's magnetotail
[NASA-CR-174467] 01 p0104 N84-10679
Interaction of the space shuttle orbiter with the ionospheric plasma 08 p1117 N84-17265
The plasma sheet boundary layer
[AD-A137399] 10 p1537 N84-20069
Research in space physics at the University of Iowa, 1982
[NASA-CR-175411] 11 p1754 N84-21447
Distributions of aurora and ionospheric currents observed simultaneously on a global scale
[AD-A140615] 17 p2727 N84-27360
FRANK, N. A.
Investigating spatial distribution of phytoplankton in Lake Baykal by optical methods 19 p2976 N84-28868
FRANK, N. T.
Vortex flap flow reattachment line and subsonic longitudinal aerodynamic data on 50 deg to 74 deg Delta wings on common fuselage
[NASA-TM-84618] 04 p0480 N84-13160
FRANK, P. J.
Prediction of field strengths near HF transmitters
[AD-B078278] 15 p2319 N84-24917
FRANK, W. M.
Kinematic analysis of Hurricane Frederick (1979) using satellite, aircraft and Rawinsonde data
[NASA-CR-175430] 11 p1685 N84-20988
FRANKE, M. E.
Axisymmetric thrust augmenting ejector with discrete primary air slot nozzles
[AD-D011129] 22 p3536 N84-32386
FRANKE, R.
Sources of error in objective analysis
[AD-A142772] 21 p3474 N84-32020
FRANKEL, D. G.
Data buffer apparatus between subsystems which operate at differing or varying data rates
[AD-D011206] 24 p3940 N84-34941
FRANKEL, S.
Very-high-energy nuclear physics
[DE83-013379] 01 p0146 N84-10957
Computer science and technology: Introduction to software packages
[NBS-SP-500-114] 20 p3268 N84-30740
FRANKENBACH, K.
System definition Roentgensatellit, phase B 1.2
[BMFT-FB-W-83-010] 03 p0342 N84-12219
FRANKHOUSER, W. L.
Synthesis of refractory compounds with gasless combustion reactions
[AD-A140296] 16 p2472 N84-25842
FRANKIGNOUL, C.
Mechanisms of interannual ocean-atmosphere interactions
[NASA-CR-173834] 20 p3245 N84-30595
FRANKLIN, C. R.
Digital interface for bi-directional communication between a computer and a peripheral device
[NASA-CASE-MSC-20258-1] 18 p2916 N84-28492
FRANKLIN, D. P.
Development of a digital mapping program at the Defense Mapping Agency
[AD-A140329] 16 p2511 N84-26113
FRANKLIN, G. F.
Fundamentals of analysis for digital control systems
01 p0014 N84-10094
Direct digital design via pole placement techniques
01 p0015 N84-10099
FRANKLIN, J.
Omega Dropwindsonde processing
[PB83-248773] 03 p0412 N84-12700
NASA pilot land data system
21 p3427 N84-31741
FRANKLIN, J. A.
V/STOL maneuverability and control
[NASA-TM-85939] 13 p1935 N84-22584
V/STOL maneuverability and control
16 p2437 N84-25632
FRANKLIN, L. A.
A comparison of several alternatives to maximum likelihood for the Weibull distribution
[AD-A138721] 13 p2036 N84-23208
FRANKLIN, M.
Review of properties of various types of calorimeters: High luminosity and high energy
06 p0911 N84-15917
FRANKLIN, R. E.
The AMTE/OUEL underwater jet noise rig
[OUEL-1491/83] 07 p1070 N84-16953
FRANKS, L. A.
Use of fiber optics and laser-induced fluorescence for remote measurements of UF6 in strong rotation
[DE83-014195] 01 p0088 N84-10575
Interactive modeling of scintillation pulses by visual overlay of computed pulse shapes with the raw data
[DE83-012668] 01 p0124 N84-10805
Remote thermometry of moving surfaces by laser-induced fluorescence of surface-bonded phosphor
[DE84-004264] 10 p1498 N84-19792
Resonance ionization spectroscopy measurement of the vapor pressure of several molecular species
[DE84-010656] 21 p3409 N84-31624
FRANKS, R.
Multiple source DF (Direction Finding) signal processing: An experimental system
[AD-P003515] 21 p3385 N84-31483
FRANSEN, L. J.
The 2400- to 800-B/S LPC (Linear Predictive Coder) rate converter
[AD-A129825] 01 p0070 N84-10456
FRANSSON, J.
Image analysis with use of range information
[FOA-C-30335-E1] 08 p1222 N84-17979
FRANSSON, T.
Aeroelasticity in turbomachine-cascades
[AD-A141905] 20 p3131 N84-29880
Two-dimensional and quasi three-dimensional experimental standard configurations for aeroelastic investigations in turbomachine-cascades
[AD-A141904] 20 p3196 N84-30297
FRANTSENYUK, I. V.
Optimal electric drive control to suppress jerking
[BLL-M-35391-(5828.4)] 08 p1165 N84-17589
Influence of transient regimes of the motor on elastic mechanical vibrations in an electric drive
[BLL-M-35438-(5828.4)] 12 p1825 N84-21896
FRANTZ, B.
Pulsed power bibliography. Volume 2: Annotated bibliography
[AD-A131753] 03 p0379 N84-12468
Pulsed power bibliography. Volume 1: Indices
[AD-A131752] 03 p0379 N84-12469
FRANTZ, C. E.
New experimental techniques with the split Hopkinson pressure bar
[DE84-003818] 20 p3190 N84-30268
FRANTZ, S. W.
Potential applications of cable television (CATV) to the FEMA (Federal Emergency Management Agency) communications mission
[AD-A131326] 02 p0209 N84-11367
FRANZ, A. K.
Leak detector for spacecraft testing with high accuracy 24 p3863 N84-34486
FRANZ, B. E.
Constant speed drive with compensation using differential gears
[AD-D011156] 23 p3758 N84-33812
FRANZ, H. E.
Investigation on the oxide layer of aluminium with respect to adhesive bonding
[MBB-BB-530-82-OE] 02 p0202 N84-11315
Characterization of aluminum oxide layers (pretreatment of plated aluminum sheet metal for adhesive bonding)
[MBB-BB-549/83-O] 07 p0977 N84-16330
Characterization of aluminum oxide layers
[MBB-BB-549-83-O] 16 p2561 N84-26433
FRANZ, J.
Development, production and testing of the primary structure for the Shuttle Pallet Satellite (SPAS-01)
[MBB-UR-580-82-OE] 05 p0642 N84-14227
FRANZ, O. G.
The occultation of AG+29 deg 398 by 98 Minerva
[NASA-CR-173827] 20 p3319 N84-31066
FRANZ, R. E.
The measurement of large strains with foil resistance strain gages
[AD-A133687] 05 p0685 N84-14500
FRANZEN, D. L.
Measurement of multimode optical fiber attenuation
[PB83-151207] 05 p0748 N84-14913
Optical fiber characterization: Attenuation, frequency domain bandwidth, and radiation patterns, volume 2
[PB84-158914] 14 p2226 N84-24357
Measurement of multimode optical fiber attenuation: An NBS special test service
[PB84-192202] 21 p3499 N84-32179
FRANZONI, U.
Grain boundary segregation and cavity formation in creep embrittled Cr-Mo steels 06 p0817 N84-15320
FRASCADORE, G. A.
Multimode radar signal processor integration facility
[AD-A130655] 01 p0065 N84-10424
FRASE, K. G.
Proton transport in beta alumina
11 p1739 N84-21345
Proton transport in beta alumina
11 p1743 N84-21371
FRASER-SMITH, A. C.
The magnetic field gradiometer
[AD-A131477] 02 p0223 N84-11462
FRASER, H. L.
Rapid solidification processing and powder metallurgy of Al alloys
[AD-A133873] 06 p0806 N84-15250
FRASER, J. S.
Subharmonic buncher for the Los Alamos free-electron laser oscillator experiment
[DE83-015220] 03 p0380 N84-12474
Electron-beam diagnostics for the Los Alamos free-electron oscillator experiment
[DE83-017230] 03 p0381 N84-12481
The Los Alamos free-electron-laser oscillator experiment: Plans and present status
[DE83-017290] 03 p0382 N84-12485
Electron motion in solenoidal magnetic fields using a first order symplectric integration algorithm
[DE84-011341] 20 p3293 N84-30910
FRASER, L. M.
Navy mobility fuels evaluation
[AD-A144171] 24 p3890 N84-34630
FRASER, R. E.
Atmospheric effects on remote sensing of the Earth's surface 12 p1832 N84-21943
FRASER, S. G.
New developments in digitizing and processing map data on large scales by Ordnance Survey (OS), Southampton, England 07 p1018 N84-16607

FRASH, G. B.
Shot waves in frozen ground
17 p2703 N84-27218
FRASSETTO, R.
Ocean Color Working Group report to ESA Observation Advisory Committee
[ESA-BR-20] 23 p3785 N84-34003
FRATER, J. L.
Dynamics of early planetary gear trains
[NASA-CR-3793] 16 p2498 N84-26027
FRATINI, A. V.
Model compound studies of rigid rod aromatic heterocyclic polymer systems, the X-ray crystal structure of 2,6-diphenylbenzo (1,2-d; 5,4-d') diimidazole tetrahydrate, C2OH14N4. 4H2O, a model system for the study of polymer-water interaction in polybenzimidazoles
[AD-A135278] 08 p1137 N84-17393
FRAU, B. A.
Comparison between two Lysholm engines
[DE84-013696] 22 p3564 N84-32571
FRAUENHOLZ, R. B.
Orbit determination of highly elliptical Earth orbiters using VLBI and delta VLBI measurements
04 p0518 N84-13402
FRAWLEY, J. J.
Observations of the Earth's magnetic field from the Space Station: Measurement at high and extremely low altitude using Space Station-controlled free-flyers
[NASA-TM-86119] 16 p2521 N84-26183
FRAYSSE, G.
Monitoring of renewable resources (a land information system for Europe) 03 p0395 N84-12581
FRAZIER, B. A.
Vacuum outgassing of various materials
[DE84-001449] 04 p0495 N84-13247
Vacuum outgassing of various materials
[DE84-004812] 11 p1626 N84-20644
FRAZIER, D. O.
Separation processes during binary monotectic alloy production
[NASA-TM-82579] 15 p2295 N84-24773
Determination of the succinonitrile-benzene and succinonitrile-cyclohexanol phase diagrams by thermal and UV spectroscopic analysis
[NASA-TM-82581] 16 p2462 N84-25778
FRAZIER, G. A.
Research and development support for the Center for Seismic Studies
[AD-A144442] 24 p3920 N84-34813
FREAR, D. R.
Effect of precipitated austenite on the fracture of a ferritic cryogenic steel
[DE84-014604] 22 p3557 N84-32521
FREAR, H. D.
Aircraft Spare Stockage Methodology (aircraft spares) study
[AD-A142259] 19 p2955 N84-28730
FRECON, L.
Optical data links for the STAR mission
24 p3905 N84-34730
FREDELL, R. S.
A detailed comparison of hydrogen and mercury embrittlement in Monel 400
[AD-A139119] 14 p2127 N84-23753
FREDERICK, F. A.
Development and assessment of the Monark cycle ergometer for anaerobic muscular exercise
[AD-A133173] 06 p0847 N84-15523
Maximal power outputs during the Wingate anaerobic test
[AD-A141374] 19 p3065 N84-29444
FREDERICK, F. P.
Impact assessment of reducing gasoline volatility
[PB84-152024] 14 p2133 N84-23781
FREDERICK, R. A., JR.
An optical surface tracking device which determines a solid propellant's burning rate 13 p1944 N84-22638
FREDERKING, T. H. K.
Vapor-liquid phase separator studies
[NASA-CR-166545] 08 p1156 N84-17527
FREDKIN, D. R.
Electronic spectra from molecular dynamics: A simple approach
[AD-A134325] 07 p1071 N84-16961
FREDRICKS, R. W.
Waves in Space Plasmas (WISP): A space plasma lab active experiment 05 p0642 N84-14223
FREDRICKSON, D.
Ragone characteristics of aqueous mobile batteries and their application in projecting ranges of electric vehicles
[DE83-014701] 03 p0404 N84-12642
FREDRIKSSON, H.
Space results on the solidification of immiscible alloys
17 p2612 N84-26722
FREED, C.
Lead salt diode lasers and development of tunable solid state lasers for remote sensing
[NASA-CR-173783] 19 p3029 N84-29207
FREEDEN, W.
Least square approximation by linear combinations of multipoles
[AD-A134069] 05 p0741 N84-14867
FREEDMAN, A.
Absolute collisional excitation cross section measurements using crossed molecular beams
[AD-A132038] 03 p0432 N84-12830
Hypervelocity supersonic nozzle beam source of atomic oxygen 24 p3863 N84-34480
FREEDMAN, B.
Fun with supersymmetric quantum mechanics
[DE84-011329] 20 p3312 N84-31031
FREEDMAN, E.
The thermodynamics of real and unreal black powder
13 p1950 N84-22675
FREEDMAN, H. T.
VHSIC (Very High Speed Integrated Circuits) for training systems
[AD-P003484] 21 p3513 N84-32251
FREEDMAN, J.
Accuracy and speed of response to different voice types in a cockpit voice warning system
[AD-A135595] 09 p1301 N84-18503
FREELAND, R.
The 55-meter-structure flight experiment
08 p1112 N84-17233
FREEMAN, A.
Simple MTI using synthetic aperture radar
23 p3765 N84-33868
FREEMAN, A. J.
Theory of hyperfine anomalies in muonic atoms
[DE83-015392] 03 p0438 N84-12872
FREEMAN, B. L.
Single-mode fiber-optic sensor for high currents
[DE83-014163] 02 p0295 N84-11933
Megavolt pulse transformer powered by a fast plate generator
[DE83-014189] 03 p0366 N84-12384
FREEMAN, F. G.
A review and evaluation of research concerning the performance effects of nuclear radiation
[AD-P003295] 18 p2908 N84-28445
FREEMAN, G.
Spontaneous ignition characteristics of gaseous hydrocarbon-air mixtures 11 p1613 N84-20557
FREEMAN, J. E.
A comparison of signal-to-noise ratios for near-infrared detectors
[AD-A138127] 12 p1907 N84-22426
FREEMAN, J. R.
RF systems in space. Volume 1: Space antennas frequency (SARF) simulation
[AD-A133734] 05 p0668 N84-14395
APC-2: An electron beam propagation code
[DE84-011532] 21 p3494 N84-32144
FREEMAN, L. M.
The use of an adaptive grid in a solution of the Navier-Stokes equations for incompressible flow
02 p0173 N84-11139
FREEMAN, M.
Research reports: 1983 NASA/ASEE Summer Faculty Fellowship Program
[NASA-CR-170942] 06 p0927 N84-16022
FREEMAN, P.
Comparing software development methodologies for Ada (trade name): A study plan
[PB84-178029] 17 p2755 N84-27491
FREEMAN, V. T.
Human reactions to transient electric currents, volume 8
[PB84-112895] 08 p1202 N84-17834
FREEMEN, B. I.
Design of a 20-MJ coaxial generator
[DE83-014152] 01 p0073 N84-10481
FREESE, J. M.
Development of a portable specular reflectometer for monitoring solar-mirror materials
[DE83-016065] 03 p0442 N84-12901
FREGLY, A. M.
Documentation of concurrent programs
[AD-A131476] 02 p0273 N84-11784
FREILICH, M.
NASA scatterometer on NROSS: A system for global observations of oceanic winds 23 p3782 N84-33980
FREIMAN, S.
Engineering and design properties of thallium-doped sodium iodide and selected properties of sodium-doped cesium iodide
[NASA-RP-1131] 23 p3726 N84-33613
FREIMAN, S. W.
Stress corrosion of ceramic materials
[AD-A136729] 10 p1467 N84-19581
FREIRE-FERRERO, R.
The interstellar absorption in the direction of some nearby A stars 24 p3972 N84-35155
Interstellar lines in high resolution IUE spectra of run-away B type stars 24 p3973 N84-35160
Search for chromospheric indicators in A dwarf stars
24 p3974 N84-35169
The Mg 2 lines in A dwarf stars
24 p3974 N84-35170
The search for superionization lines in A dwarf stars
24 p3975 N84-35171
FREITAS, D. A.
A quaternary logic encoder-decoder circuit design using CMOS
[AD-P002351] 14 p2192 N84-24142
FREKERS, D.
Search for doubly-charged negative ions via accelerator mass spectrometry
[DE83-014321] 01 p0038 N84-10243
FRELLER, H.
Comparative study of TiN hard coatings produced by reactive sputtering, ion-plating and CVD technique
[BLL-RARDE-TR-1094(7291.7965)]
06 p0804 N84-15236
FREMIOT
Application of measurements of the propagation velocity of ultrasonic Rayleigh waves to surface inspection of materials
[CETIM-15-H-417] 21 p3416 N84-31662
FREMOUW, E. J.
Improvement of the scintillation-irregularity model in WBMOD
[AD-A131536] 02 p0249 N84-11632
HILAT: A pre-launch overview
[AD-A137266] 11 p1683 N84-20983
FRENCH, A. P.
Molecule microscopy 22 p3681 N84-33337
FRENCH, D. H.
The development and application of an advanced computer-based shared-graphic workstation for video teleconferencing
[AD-A132583] 04 p0579 N84-13817
FRENCH, J. B.
An atomic oxygen facility for studying polymer materials for spacecraft applications 24 p3863 N84-34482
FRENCH, R. D.
Current design requirements for corrosion control on helicopters 16 p2434 N84-25616
FRENCH, R. H.
A preliminary analysis of precipitation in southern Nevada
[DE83-016848] 02 p0256 N84-11678
Development of design hyetographs for southern Nevada
[DE84-001227] 04 p0554 N84-13649
FRENKEL, A.
Search for the radiative decay of a cosmic relic particle with IUE 24 p3982 N84-35231
FRENKEL, I. D.
Energy metalbolism enzymes in simulation of some spaceflight factors 02 p0260 N84-11704
Effect of decimeter waves on physical-chemical state of membranes, thymocyte chromatin and immunological reactivity of an organism 17 p2742 N84-27411
Effect of high ammonia content in pressure chamber atmosphere on human adrenocortical system function
20 p3255 N84-30658
FRENKLACH, M.
Soot formation from polycyclic aromatics
[DE83-009750] 03 p0349 N84-12271
Shock tube study of the fuel structure effects on the chemical kinetic mechanisms responsible for soot formation
[NASA-CR-174661] 12 p1790 N84-21677
FRENZEN, P.
Untapped midwestern wind energy resource: Nocturnal low-level wind maxima
[DE84-006424] 13 p2017 N84-23077
FRENZL, O.
Development of a transimpedance amplifier for cryotemperatures, study
[BMFT-FB-W-84-023] 21 p3407 N84-31610
FRERKING, M. A.
Neutral carbon in the Egg Nebula (AFGL 2688)
[NASA-TM-84360] 16 p2574 N84-26518
FRERKING, M. E.
Variable gain oven temperature control circuit
[AD-D011141] 22 p3597 N84-32778
FRESE, K. W., JR.
Reduction of CO2 to methanol and methane by photo and dark reactions on semiconductor electrodes
[PB83-249490] 03 p0358 N84-12329

Reduction of CO2 to methanol and methane by photo and dark reactions on semiconductor electrodes
[PB84-214360] 21 p3363 N84-31334

FRESNEAU, A.
Clustering properties of stars outside the galactic disk
09 p1408 N84-19198

FRESNEL, J.
Formal and group Picard localization
13 p2032 N84-23174

FREUDENSTEIN, F.
The conceptual design of mechanisms and mechanical systems 15 p2311 N84-24869

FREUND, H. P.
Design and operation of a collective millimeter-wave free-electron laser
[AD-A131628] 01 p0087 N84-10568
Study of gain, bandwidth, and tunability of a millimeter-wave free-electron laser operating in the collective regime
[AD-A139285] 14 p2151 N84-23884

FREUND, L. B.
Dynamic crack growth criteria in structural metals
[AD-P003107] 16 p2457 N84-25812
Some theoretical results on the dependence of dynamic stress intensity factor on crack tip speed
[AD-P003109] 16 p2457 N84-25814
Initiation and propagation of shear bands in antiplane shear deformation
[AD-A140741] 17 p2624 N84-26794

FREVERT, E.
Development of a method for wear measurement of thermoplast journal bearings
[OEFZS-4271] 18 p2849 N84-28093

FREWIN, G. D.
Requirements on reliability models, and their consequences 05 p0723 N84-14740

FREY, A.
Study on the baffle system of the sounding rocket payload INTER-ZODIAK
[BMFT-FB-W-83-015] 07 p0962 N84-16239

FREY, D. J.
Development of an industry-based residential thermal program evaluation program 16 p2515 N84-26139
Field instrumentation for the passive solar commercial buildings monitoring program 16 p2515 N84-26142

FREY, H.
Distribution and properties of small volcanoes in Acidalia Planitia 13 p2080 N84-23478

FREY, H. U.
Distortion measurement of antennas under space simulation conditions with high accuracy and high resolution by means of holography
24 p3864 N84-34491

FREY, L.
Extended development procedure EDeP user's manual
[AD-A131381] 01 p0116 N84-10756

FREY, P. R.
Reliability analysis of an ultra-reliable fault tolerant control system
[NASA-CR-166594] 21 p3345 N84-31219

FREYMANN, R.
A probe for direct measurements of flow direction
[DFVLR-FB-83-27] 16 p2486 N84-25948

FREYTAG, D. R.
Fast multichannel analog storage system
[DE83-012711] 01 p0119 N84-10773

FRIAR, J. L.
Deuteron forward photodisintegration: Meson currents and relativity
[DE84-001314] 07 p1072 N84-16968

FRIBERG, J.
The early roots of Babylonian mathematics. Part 3: Three remarkable texts from Elba
[CTH-MATH-198314-PT-3] 13 p2034 N84-23197

FRICK, A.
An analysis of the effect of biological and physical parameters of a wetlands grass biome on the spectral modeling of phytomass and primary productivity
23 p3769 N84-33891

FRICK, F. A.
Mechanical construction of the 22 Nova laser
[DE84-005432] 11 p1663 N84-20855

FRICKE, K. J.
IUE observations of multiple nucleus galaxies
24 p3971 N84-35148

FRICKE, M.
Development of a systems theoretical procedure for evaluation of the work organization of the cockpit crew of a civil transport airplane
[NASA-TM-77359] 07 p1051 N84-16806
Simulation analysis and derivation of accuracy requirements for future terminal area navigation. Part 1: Single aircraft analysis
[BMFT-FB-W-83-035-PT-1] 12 p1768 N84-21535
Simulation analysis and derivation of accuracy requirements for future terminal area navigation. Part 2: Multi aircraft analysis
[BMFT-FB-W-83-036-PT-2] 12 p1769 N84-21536

FRID, S. Y.
Economics of installation of solar heating plants
17 p2641 N84-26896

FRIDMAN, J. D.
Connector and cable assembly specifications for the SHAPE fiber optic network
[AD-A141280] 18 p2932 N84-28593

FRIDMAN, V. M.
Strength of hard alloy elements of high pressure apparatus for synthesis of superhard materials
12 p1785 N84-21647

FRIED, B. D.
Growth rates of parametric instabilities driven by two pumps
[AD-A139463] 14 p2229 N84-24364

FRIED, I.
Linear and nonlinear finite elements
[AD-A138468] 12 p1895 N84-22341

FRIED, J. R.
Mechanical properties of bis-phenol-A polysulfone and acetylene terminated bis-phenol-A blend
[AD-A131277] 02 p0200 N84-11303
TICA (Torsion Impregnated Cloth Analysis) study of high-temperature thermoplastics
[AD-A137048] 10 p1468 N84-19586

FRIEDEL, R.
Flight simulation investigations for the problem of flyability of noise optimal approach and takeoff paths
[IFD-3/83] 14 p2221 N84-24329

FRIEDJUNG, M.
The ultraviolet spectrum of stars having optical Fe 2 emission lines 24 p3977 N84-35188

FRIEDLAND, S.
Stable convex sets of matrices
[AD-A136659] 10 p1574 N84-20317

FRIEDLAND, S. S.
Approach to real-time holography
[DE84-002779] 08 p1162 N84-17565

FRIEDLANDER, A.
Performance assessment of planetary missions as launched from an orbiting space station
[NASA-CR-173498] 13 p1936 N84-22594

FRIEDLANDER, B.
Adaptive decentralized control
[AD-A142160] 19 p3081 N84-29549

FRIEDMAN, A.
Compressible flows of jets and cavities
[PREPRINT-637] 17 p2669 N84-27022

FRIEDMAN, A. M.
Measurements, in vivo, of parameters of the dopamine system
[DE83-017964] 03 p0414 N84-12709

FRIEDMAN, I.
An isotopic and chemical study of Lake Vanda and Don Juan Pond, Antarctica 14 p2163 N84-23952
Climatic significance of lacustrine deposits around Lake Vanda and Don Juan Pond, Antarctica
14 p2163 N84-23953

FRIEDMAN, J. L.
Secular stability of rotating stars
[DE84-014011] 23 p3839 N84-34353

FRIEDMAN, K.
Operation of electric vehicles in the US Department of Energy test program
[DE84-011703] 21 p3521 N84-32308

FRIEDMAN, M.
Automatic inspection for printed wiring
[AD-A133328] 06 p0854 N84-15566
Mechanical and transport properties of rocks at high temperatures and pressures. Task 3. Mechanical properties of rocks at high temperatures and pressures
[DE84-003438] 08 p1188 N84-17740

FRIEDMAN, P.
Aeroelastic effects in multi-rotor vehicles with application to a hybrid heavy lift system. Part 1: Formulation of equations of motion
[NASA-CR-3822] 21 p3344 N84-31216

FRIEDMAN, R.
Automatic sprinklers 04 p0510 N84-13346
Fire modeling research at Factory Mutual
04 p0513 N84-13370
Trends of jet fuel demand and properties
14 p2106 N84-23631

FRIEDMAN, S.
High voltage, low inductance hydrogen thyratron study program, phase 5
[DE84-000627] 10 p1487 N84-19721

FRIEDMAN, S. D.
Measurement of the intensity of the cosmic background radiation at 3.0 cm
[DE84-008246] 14 p2252 N84-24525

FRIEDMAN, S. N.
MIL-STD-1553 interface application notes
[AD-P003539] 21 p3332 N84-31143

FRIEDMAN, S. Z.
An analysis LANDSAT-4 Thematic Mapper geometric properties 20 p3210 N84-30392
Data integrity factors affecting the construction of the mapping, charting, and geodesy data base
[NASA-CR-173835] 20 p3228 N84-30511

FRIEDMANN, P. P.
A study of aeroelastic and structural dynamic effects in multi-rotor systems with application to hybrid heavy lift vehicles
[NASA-CR-173505] 14 p2104 N84-23620

FRIEDRICH, E.
Studies of proteinograms in dermatophytes by disc electrophoresis. 1. Protein bands in relation to growth phase
[NASA-TM-77095] 07 p1042 N84-16755
Studies on proteinograms in dermatorphytes by disc electrophoresis. Part 2: Protein bands of keratinophilic fungi
[NASA-TM-77096] 10 p1545 N84-20127

FRIEDRICH, M. F.
Plasma heating generated by a rocket-borne electron accelerator 05 p0637 N84-14189
Plasma processes in the region of electron beam injection from a high altitude payload
05 p0637 N84-14194
Modeling of beam-plasma discharge in the laboratory
05 p0638 N84-14200
Plasma processes caused by an electron beam injected from a high altitude rocket probe. Part 1: Neutralization processes
[IWF-8302] 17 p2726 N84-27363
Measurement of nitric oxide in the equatorial D-region and other relevant parameters
[IWF-8304] 17 p2726 N84-27365

FRIEDRICHS, R.
Experience in engine face, non-steady, flow measurements through a side and bottom engine air inlet duct 14 p2100 N84-23600

FRIEL, E. A.
Water resources data for West Virginia, water year 1982
[PB84-120161] 09 p1340 N84-18754

FRIEND, D.
Performance testing of the high altitude observatory PDS microdensitometer 18 p2839 N84-28022

FRIEND, D. B.
Stellar winds driven by multi-line scattering
03 p0469 N84-13087

FRIEND, N. J.
Analysis of interactive image cleansing via RASTER-processing techniques
[AD-A141772] 19 p3078 N84-29527

FRIES, S.
Windpowered generators. Test field Pellworm. The test of the Aeroman system
[GKSS-83-E-15] 02 p0243 N84-11589
Wind energy test field Pellworm: Tests of the plant Bruemmer BW 120S
[GKSS-83-E-42] 13 p2010 N84-23035
Measuring and data evaluation systems at the wind test site Pellworm
[GKSS-84-E-12] 23 p3791 N84-34044

FRIESE, G. J.
Geothermal Elastomeric Materials Technology Transfer (GEM-TT) Program
[DE83-013118] 01 p0050 N84-10325

FRIETMAN, E.
Communication aids for the handicapped
20 p3265 N84-30715

FRINGANT, A. M.
Interstellar lines in high resolution IUE spectra of run-away B type stars 24 p3973 N84-35160

FRIPP, A. L.
Characterization of the general purpose research furnace for low-G directional solidification experiments
[NASA-TM-85718] 04 p0489 N84-13211

FRISBIE, H. R.
Water resources data for Nevada, water year 1982
[PB84-120385] 09 p1340 N84-18755

FRISCH, B.
Orbiting dynamic compression laboratory
[NASA-CR-173704] 18 p2798 N84-27755

FRISCH, F.
Description of FRG basic research in X-ray lithography
17 p2640 N84-26894

FRISCH, F. A. P.
Mortality and spareparts: A conceptual analysis
[AD-P002826] 13 p2062 N84-23371

FRISCH, H. P.
A passively controlled appendage deployment system for the San Marco D/L spacecraft
15 p2347 N84-25081

FRISCHAT, G. H.
Reaction kinetics in glass melts. Corrosion of SiO-2. TEXUS 4 project 18 p2819 N84-27900
FRISCHMUTH, K.
Problems of constitutive modeling and stability of dissipative bodies
[ISSN-0208-5658] 19 p3081 N84-29551
FRISIUS, F.
The neutron induced embrittlement of reactor pressure vessel steels and ferritic alloys
[AD-B080746] 15 p2295 N84-24770
FRITSCH, C. D.
Properties of aircraft fuels and related materials
[AD-A141068] 19 p3001 N84-29019
FRITSCH, D.
Variations of ocean surfaces from ERS-1 altimeter data for repetitive orbits 02 p0233 N84-11532
FRITSCH, F. N.
Use of the Bernstein form to derive sufficient conditions for shape preserving piecewise polynomial interpolation
[DE84-003914] 08 p1221 N84-17972
BIMOND: Monotone bivariate interpolation code (preliminary documentation)
[DE84-004159] 10 p1565 N84-20252
Use of shape-preserving interpolation methods in surface modeling
[DE83-012708] 12 p1895 N84-22343
FRITSCHE, H.
The elements of the Earth's magnetism for the Epochs 1600, 1650, 1700, 1780, 1842 and 1885, and their secular changes derived from observations calculated using the coefficients of the Gaussian 'General Theory of Earth's Magnetism'
[NASA-TM-77100] 07 p1033 N84-16700
On the determination of the coefficients of the Gaussian general theory of the Earth's magnetism for the year 1885 and about the relationship of the three Earth-magnetic elements
[NASA-TM-77105] 07 p1033 N84-16701
The elements of the Earth's magnetism and their secular changes between 1550 and 1915
[NASA-TM-77343] 10 p1533 N84-20043
FRITTS, D. C.
Research status and recommendations from the Alaska workshop on gravity waves and turbulence in the middle atmosphere
[AD-A140939] 18 p2879 N84-28281
FRITTS, M. J.
Numerical simulations of fuel droplet flows using a Lagrangian triangular mesh
[NASA-CR-168263] 03 p0370 N84-12411
Analysis of stability and symmetry implications for ICF
[DE84-000640] 04 p0540 N84-13556
Time dependent, compressible simulations of shear flows: Tests of outflow boundary conditions
[AD-A136410] 09 p1314 N84-18587
FRITZ, G.
The 3-10 keV and 0.1- to 2-MeV observations of 4 gamma-ray bursts
[DE84-001334] 05 p0766 N84-15022
FRITZ, I. J.
An In0 2Ga0 8As/GaAs, modulation-doped, strained-layer superlattice field-effect transistor
[DE84-000136] 06 p0924 N84-16006
FRITZ, J. N.
The velocity of sound behind strong shock waves in 2024 Al
[DE83-015927] 02 p0220 N84-11446
FRITZ, R. J.
Sidetone generator flowmeter
[DE84-014246] 23 p3752 N84-33783
FRITZ, T. A.
Implications of the 1100 UT 22 March, 1979 CDAW 6 substorm event for the role of magnetic reconnection in the geomagnetic tail
[DE84-004335] 10 p1537 N84-20071
Energetic particle sounding at the magnetopause and implications for magnetic reconnection
[NASA-CR-173963] 23 p3799 N84-34086
FRITZCHE, A.
German-Argentinian R and D project for the utilization of wind energy
[BMFT-FB-T-84-080] 20 p3237 N84-30549
FRITZSCHE, C.
Study of dry resistant techniques for electron beam lithography
[BMFT-FB-T-84-037] 19 p3028 N84-29206
FRODIGH, R. J.
Terrain analysis procedural guide for built-up areas (report no. 13 in the ETL (Engineer Topographic Laboratories) series on guides for Army terrain analysts)
[AD-A142918] 21 p3431 N84-31768
FROEBEL, E.
Definition, sources and lowest possible levels of wind-tunnel turbulence 14 p2096 N84-23576
Automatically equalizing fluid manometer combined with a computer
[ESA-TT-811] 16 p2496 N84-26015
FROEHLICH, W.
Spacelab: An international short-stay orbiting laboratory
[NASA-EP-165] 01 p0027 N84-10172
FROEHLING, R.
Measures for materials conservation in aero-engine construction 23 p3702 N84-33468
FROEHNER, K. H.
Research on diffusion and complex behavior of elements forming recombination centers in silicon by means of optical and electrical measurement techniques
[BMFT-FB-T-83-117] 02 p0300 N84-11971
Analysis of impurities forming recombination centers in silicon
[BMFT-FB-T-84-049] 19 p3113 N84-29779
FROES, F. H.
Powder metallurgy of light metal alloys for demanding applications
[AD-A142066] 21 p3366 N84-31352
Method to reveal microstructures in single phase alloys
[AD-D011094] 22 p3555 N84-32512
FROIDEVAUX, L.
Photochemical modeling of the Earth's stratosphere 13 p2013 N84-23058
FROLA, F. R.
System safety in aircraft acquisition
[AD-A141492] 19 p2960 N84-28763
FROLKOV, Y. A.
Manifestation of the Fermi resonance in surface polariton spectra
[NASA-TM-77386] 14 p2222 N84-24330
FROLOV, M. V.
Objectivization of evaluation of speech intelligibility during flights 02 p0261 N84-11713
Biofeedback methods and quality of operator's performance 17 p2740 N84-27399
FROLOV, O. P.
Adaptive antennas for tropospheric radio relay lines 21 p3377 N84-31432
FROLOV, V. V.
Bonding materials by gas-phase precipitation 23 p3709 N84-33512
FROLOV, V. Y.
Optimization of the parameters of the arc suppressing system of high-voltage apparatuses with a thyristor attachment
[BLL-OA-TRANS-3139-(6196.3)] 08 p1149 N84-17476
FROLOVA, V. P.
Biofeedback regulation of pulmonary ventilation 18 p2897 N84-28378
FROLOW, I.
Automated en route air traffic control algorithmic specifications. Volume 3: Flight plan conflict probe
[AD-A136795] 10 p1425 N84-19319
FROME, E. L.
Regression methods for binomial and Poisson distributed data
[DE84-009714] 18 p2927 N84-28564
FROMER, H. S.
Multi-year procurement a 'Team approach'
[AD-P002780] 13 p2055 N84-23327
FROMEYER, H.
MRCA run-in floors 14 p2093 N84-23557
FROMHOLD, A. T.
Atomic oxygen effects on materials 06 p0929 N84-16036
Surface analysis of space telescope material specimens
[NASA-CR-171163] 23 p3838 N84-34351
FROMM, M. D.
Nimbus-7 ERB (Earth Radiation Budget) Sub-Target Radiance Tape (STRT) data base
[PB84-149921] 14 p2177 N84-24039
FROMME, D. A.
Electron charging and SGEMP (System Generated Electromagnetic Pulse) studies on satellite dielectrics
[AD-A143012] 21 p3353 N84-31268
FROMMEYER, H.
Statistical and vibratory fatigue limit characteristics of aluminum cast alloys 14 p2093 N84-23558
FROMMLET, H.
A rear engine without joints and pillows
[MBB-UD-383-83-O] 16 p2563 N84-26441
FRONCZAK, J.
Data communications in the mobile radio channel
[EUT-83-E-142] 10 p1484 N84-19700
FRONCZEK, C. J.
Test and demonstration of Macrometer (TM) model V-1000 interferometric surveyor
[PB83-239103] 03 p0402 N84-12631
FRORIEP, R.
Monte Carlo computer simulation program (MCHP) supporting a covariance analysis using the STANHP program
[DFVLR-MITT-83-06] 03 p0421 N84-12756
FROST, M.
An operating system and memory switch for the S-1 computer
[DE84-013094] 20 p3267 N84-30731
FROST, V. S.
The influence of sensor and flight parameters on texture in radar images 03 p0394 N84-12575
FROST, W.
Statistical analysis of turbulence data from the NASA Marshall Space Flight Center atmospheric boundary layer tower array facility
[NASA-CR-3737] 04 p0566 N84-13730
Doppler lidar signal and turbulence study
[NASA-CR-170976] 08 p1163 N84-17574
Numeric and fluid dynamic representation of tornadic double vortex thunderstorms
[NASA-CR-171023] 15 p2370 N84-25217
FROSTIG, Y.
Evolution of nonlinear wave groups on water of slowly-varying depth
[AD-A137420] 10 p1491 N84-19751
FROYEN, L.
Melting and solidification of metallic composites 17 p2613 N84-26726
FRUCI, J. R.
Ecological models of the Mississippi Deltaic Plain Region: Data collection and presentation
[PB83-239012] 02 p0245 N84-11604
FRUEH, W.
Subsystem duplexer for a 6-4 GHz Earth station
[INPE-2795-PRE/357] 05 p0666 N84-14379
FRUGIER, M.
The F2 wind tunnel at Fauga-Mauzac
[NASA-TM-77482] 19 p2969 N84-28814
FRUIN, J. T.
Acute intramuscular toxicity (LD50) of 1,1'-trimethylenebis (4-(Hydroxyiminomethyl) pyridinium bromide) monohydrate, (TMB-4) in male mice
[AD-A133148] 06 p0886 N84-15758
FRUKHTMAN, M. L.
High-resistance measuring standards of electrical resistance 18 p2826 N84-27939
FRULLONE, M.
Spread spectrum transmission. Part 1: General characteristics
[FUB-49-1982-PT-1] 06 p0826 N84-15385
Experimental evaluation of the interference of a frequency hopping signal on a television signal 10 p1478 N84-19659
FRUMKIN, M.
Food specialists discuss cosmonaut diet 19 p2971 N84-28835
FRY, C. R.
Achievement of electromagnetic compatibility in weapon systems 08 p1142 N84-17430
FRY, D. E.
The initial design of active control systems for a flexible aircraft 02 p0171 N84-11125
FRY, E. B.
Flight measurements of hinged-plate wing-spoiler hinge moments
[NASA-TM-84343] 01 p0003 N84-10021
FRY, J. L.
Theoretical studies of solids under extreme conditions
[AD-A139352] 14 p2132 N84-23778
FRY, M. A.
Power-series solutions of the gasdynamic equations for Mach reflection of a planar shock by a wedge
[AD-A135953] 09 p1315 N84-18594
Airblast simulations using flux-corrected transport codes
[AD-A142820] 21 p3400 N84-31567
FRY, R. J. M.
The relevance of experimental animal studies to the human experience
[DE83-014053] 01 p0112 N84-10729
FRYBURG, G. C.
Chemical mechanisms and reaction rates for the initiation of hot corrosion of IN-738
[NASA-TP-2319] 19 p2992 N84-28958
FRYER, P.
SeaMARC 2 side-scan images of submarine volcanoes: Potential analogues for Venus 11 p1754 N84-21452
Venus analogues on the Earth's ocean floor(?): Volcanic terrains seen by SeaMARC 2 side scan sonar 11 p1755 N84-21456
FRYXELL, R. E.
Effects of surface chemistry on hot corrosion life
[NASA-CR-174683] 15 p2295 N84-24774

FTITSCH, F. N.
Use of shape-preserving interpolation methods in surface modeling 12 p1870 N84-22183
FU, K. C.
Thermal stress analysis for a wood composite blade [NASA-CR-173394] 12 p1826 N84-21903
Thermal-stress analysis for wood composite blade [NASA-CR-173830] 21 p3419 N84-31685
FU, K. S.
Detection of bright spots in seismic signal using pattern recognition techniques [AD-A136210] 09 p1346 N84-18793
VLSI architectures for recognition of context-free languages 09 p1402 N84-19160
FU, L. L.
Observations of internal waves in the Gulf of California by SEASAT SAR 07 p0990 N84-16414
Oceanic mesoscale variability and general circulation from satellite altimetry: A status report [AD-P002653] 11 p1689 N84-21018
FU, L. S.
Volume integrals associated with the inhomogeneous Helmholtz equation. Part 1: Ellipsoidal region [NASA-CR-3749] 05 p0689 N84-14525
Volume integrals associated with the inhomegeneous Helmholtz equation. Part 2: Cylindrical region; rectangular region [NASA-CR-3750] 05 p0689 N84-14526
FU, Y.
Micro and macro mechanics of fracture in ceramics [AD-A137290] 10 p1465 N84-19572
Mechanics of microcrack toughening in ceramics 23 p3760 N84-33831
FUCHIKO, V. Y.
Hollow cathode cell for pulsed lasers using metal vapors and their chemical compounds 13 p1968 N84-22778
FUCHS, E. A.
Investigation of static and dynamic fracture of orthotropic media by photomechanics 06 p0863 N84-15625
FUCHS, J.
L band push broom microwave radiometer: Soil moisture verification and time series experiment Delmarva Peninsula [E84-10084] 10 p1520 N84-19955
Microwave radiometer experiment of soil moisture sensing at BARC test site during summer 1981 [NASA-TM-86056] 14 p2168 N84-23989
FUELBERG, H. E.
A kinetic energy study of the meso beta-scale storm environment during AVE-SESAME 5 (20-21 May 1979) [NASA-CR-3620] 23 p3800 N84-34080
Statistical analysis and use of the VAS radiance data 24 p3929 N84-34870
Statistical structure of convective periods derived from satellite ground based data 24 p3931 N84-34882
FUERSTENAU, N.
Evaluation of the stochastic drift of rate integrating gyros as preparation for the analysis of laser gyro drift measurements [DFVLR-MITT-83-04] 03 p0376 N84-12449
FUGONO, N.
Remote sensing of rain by an airborne dual-frequency microwave scatterometer/radiometer 23 p3774 N84-33927
FUHR, D. C.
Operating system interface for Ada (trademark) instructors [AD-P003433] 20 p3272 N84-30765
FUHS, W.
Electronic properties of amorphous silicon (a-Si:H) [BMFT-FB-T-83-154] 05 p0699 N84-14590
FUISAWA, Y.
Tensile strength of pressureless-sintered silicon nitride at elevated temperature [NAL-TR-753] 04 p0548 N84-13611
FUJCZAK, F.
Behavior of pressurized cylinders with multiple internal cracks [AD-A136104] 09 p1334 N84-18707
FUJI, R.
New developments in sensors [AD-A144367] 24 p3903 N84-34712
FUJII, K.
Solution of Poisson equations for 3-dimensional grid generations [NASA-TM-85857] 04 p0588 N84-13886
Elliptic grid generation for three-dimensional geometries 20 p3168 N84-30117
FUJII, M.
Low-cost single-crystal turbine blades, volume 1 [NASA-CR-168218] 06 p0805 N84-15247
FUJII, N.
Influence of unbalanced three-phase current on characteristics of high-speed LIM 07 p0983 N84-16365
FUJIMOTO, A.
Hydrogen-bond energies of dimer formation and UV absorption spectra of mono-methyl substituted 2-pyridones 21 p3477 N84-32040
FUJIMOTO, J.
Optics and quantum electronics 22 p3682 N84-33343
FUJIMOTO, T.
Collisional-radiative model for helium-like ions: Application to intermediate-density plasmas [IPPJ-647] 06 p0919 N84-15976
Enhancement of the excitation and deexcitation rate coefficient of ions in dense plasmas: The role of autoionizing states [IPPJ-661] 11 p1733 N84-21302
Evaluation of excitation cross sections by plasma spectroscopy 11 p1735 N84-21315
The effect of excitation anisotropy in the laser-induced fluorescence spectroscopy of plasmas 11 p1735 N84-21319
FUJIMURA, H.
VISSR observation of the solar eclipse in rapid-interval limited scan mode 09 p1347 N84-18802
FUJIMURA, K.
An enhanced Oct-tree data structure and operations for solid modeling 12 p1874 N84-22214
FUJISAWA, N.
Numerical analyses for scrape-off plasmas in FER divertor chamber 11 p1734 N84-21313
FUJITA, H.
Buildup and sustainment of 10(13) and cm(-3) plasma by ICRF in RFC-XX [IPPJ-653] 10 p1580 N84-20356
Boundary migration and disappearance of voids in Alpha-Al2O3 at 2000 deg C [NASA-TM-77436] 19 p3110 N84-29758
Plasma heating, confinement and stabilization experiments in axisymmetric mirror-cusp device [IPPJ-690] 24 p3965 N84-35105
FUJITA, J.
ICRF heating experiments on JIPP T-II [IPPJ-650] 10 p1580 N84-20352
Ion Bernstein wave heating experiment on JIPPT-II-U device [IPPJ-662] 11 p1734 N84-21305
Wavelength measurement of X-ray lines from He-like ions 11 p1736 N84-21326
FUJITA, M.
Remote sensing of rain by an airborne dual-frequency microwave scatterometer/radiometer 23 p3774 N84-33927
FUJITA, S.
Generation of ternary majority functions of four or less variables [AD-P002337] 14 p2190 N84-24128
FUJITA, T.
Japanese activities in refrigeration technology 06 p0818 N84-15330
Non-DOE-sponsored domestic dish activities 18 p2872 N84-28234
Review of solar fuel-producing quantum conversion processes [NASA-CR-173904] 22 p3617 N84-32916
Solar photochemical process engineering for production of fuels and chemicals [NASA-CR-173910] 22 p3617 N84-32917
A nomographic methodology for use in performance trade-off studies of parabolic dish solar power modules [NASA-CR-173908] 22 p3617 N84-32918
FUJITA, T. T.
Doppler weather radar applications to terminal and enroute air traffic control 18 p2887 N84-28324
Analysis of satellite data for sensor improvement (detection of severe storms from space) 24 p3932 N84-34888
FUJITA, Y.
Welding deformations and residual stresses due to circumferential welding of cylindrical shells and hemispherical end plates [DRIC-T-6968] 04 p0547 N84-13602
Welding deformations and residual stresses due to circumferential welding of cylindrical shells and hemispherical end plates [BLL-DRIC-T-6968-(3623.66)] 06 p0851 N84-15549
FUJIWARA, M.
Experimental studies on plasma confinement in Nagoya bumpy torus [IPPJ-655] 10 p1580 N84-20355
Heavy ion beam probe for the study of plasma confinement in Nagoya bumpy torus [IPPJ-669] 15 p2409 N84-25462
FUJIWARA, N.
Large area spark counter with fine time and position resolution [DE84-008203] 19 p3028 N84-29202
FUJIYOSHI, Y.
Simultaneous observation of snowfall intensity and visibility in winter at Sapporo 15 p2354 N84-25125
FUKAI, M.
A case study of spaceborne synthetic aperture radar system design for the Earth Resources Satellite 23 p3782 N84-33987
Some test results of synthetic aperture radar transmitter and receiver 23 p3783 N84-33988
FUKAMI, Y.
Improvement in quality of silicon-based amorphous films 21 p3477 N84-32041
FUKANO, T.
Fluid-dynamic error in measurement of periodic flow by spherical yawmeter and flow separation on yawmeter head 07 p0983 N84-16369
FUKAO, S.
A transceiver module of the Mu radar 17 p2692 N84-27147
FUKIWARA, N.
Large area spark counters with fine time and position resolution [DE84-007804] 15 p2337 N84-25031
FUKS, I. M.
Structural function of lunar relief according to radar data 17 p2630 N84-26823
FUKUDA, K.
Magnetic record support [NASA-TM-77619] 24 p3902 N84-34709
FUKUDA, N.
Synthesis method for ternary logic function based on NAND-type polypheck [AD-P002348] 14 p2192 N84-24139
FUKUDA, R. S.
Chemiluminescent/laser diode measurement technique intercomparison and captive air measurement program [PB84-134495] 11 p1661 N84-20839
FUKUDA, T.
A consideration on the capability of receiving character-information [NHK-SERIAL-294] 15 p2417 N84-25511
FUKUMASA, O.
Numerical analysis on the ion species ratios in a steady state hydrogen plasma [IPPJ-687] 23 p3826 N84-34269
FUKUMURA, T.
P-valued input, Q-valued output threshold logic and its application to the synthesis of P-valued logical networks [AD-P002336] 14 p2190 N84-24127
FUKUSHI, H.
Distribution of pack ice of Okhotsk Sea coast of Hokkaido observed with sea ice radar network, January-April 1983 23 p3762 N84-33846
FUKUZAWA, F.
Electron capture cross sections in high energy He2+ + neutral Li collisions [IPPJ-679] 21 p3500 N84-32182
FULCO, C. S.
Prevention of acute mountain sickness by dexamethasone [AD-A131533] 01 p0114 N84-10737
Anthropometric changes at high altitude [AD-A140311] 16 p2535 N84-26277
A software package for administering and monitoring the Environmental Symptoms Questionnaire (ESQ-3) [AD-A140288] 16 p2538 N84-26293
FULGHAM, D. D.
Stress assessment through voice analysis [AD-A132577] 04 p0573 N84-13773
FULIGNI, F.
Double parametric oscillator [IFSI-83-1] 05 p0677 N84-14451
Resonant parametric transducer [IFSI-83-10] 18 p2835 N84-27995
FULKERSON, E. S.
Inexpensive solid-state trigger unit for thyratrons [DE84-001424] 08 p1152 N84-17501
FULKERSON, S. A.
Formaldehyde as a density probe of interstellar clouds 02 p0307 N84-12015
FULL, W. E.
Fourier shape analysis: A multivariate pattern recognition approach [AD-P003118] 16 p2532 N84-26259
FULLER, C. A.
Homeostasis in primates in hyperacceleration fields 09 p1354 N84-18852
FULLER, C. R.
Analytical investigation of synchrophasing as a means of reducing aircraft interior noise [NASA-CR-3823] 21 p3491 N84-32123
FULLER, E. G.
Photonuclear data index, 1973-1981, supplement 2 to NBS (National Bureau of Standards) special publication 380 [PB83-251363] 05 p0746 N84-14898

FULLER, E. R., JR.
Stress corrosion of ceramic materials
[AD-A136729] 10 p1467 N84-19581
FULLER, G. M.
Formation and remodeling of the early wound matrix
[AD-A134576] 08 p1201 N84-17833
FULLER, J. L.
Fusion materials irradiation test facility test-cell instrumentation
[DE83-012823] 01 p0085 N84-10552
FULLER, R.
Application of NDE methods to green ceramics: Initial results
[DE84-006411] 14 p2130 N84-23769
Application of NDE methods to green ceramics: Initial results
[DE84-010571] 18 p2819 N84-27898
FULLER, R. G. C.
Prolonged heavy vehicle driving performance: Effects of unpredictable shift onset and duration and convoy versus independent driving conditions
[AD-A139747] 15 p2384 N84-25298
FULLER, S. H.
The C.mmp multiprocessor
[AD-A142132] 19 p3072 N84-29493
FULLER, W. W.
Role of pressure in understanding the anomalous superconductivity in europium (molybdenum)6(sulfur)8 and (TMTSF)2FSO3
[DE83-017292] 06 p0925 N84-16012
FULLERTON, T. D.
Comparing well-being and stress of several high risk Army groups
[AD-P003264] 18 p2906 N84-28430
FULTON, R. E.
Computer-Aided Geometry Modeling
[NASA-CP-2272] 12 p1869 N84-22179
Management of CAD/CAM information: Key to improved manufacturing productivity 12 p1889 N84-22300
Management of CAD/CAM information: Key to improved manufacturing productivity
[NASA-TM-86255] 19 p3080 N84-29545
FULTZ, B.
Magneto-mechanical effects in 304 stainless steels
[DE84-004343] 10 p1462 N84-19546
FUM, J. S.
Flapping-torsional response of helicopter rotor blades to turbulence excitation 21 p3327 N84-31110
FUNADA, K.
On applications of a specification and description language NESDEL to communication protocols 22 p3563 N84-32567
FUNAI, A. I.
Radiative properties of advanced spacecraft heat shield materials
[NASA-CR-3740] 02 p0193 N84-11258
FUNDAREK, M.
Selections on computer technology in CSSR 18 p2918 N84-28500
FUNDERLIC, R. E.
Updating LU factorizations for computing stationary distributions
[DE84-007566] 15 p2400 N84-25402
FUNG, A. K.
Backscattering from inhomogeneous media with irregular boundaries
[AD-A134500] 07 p0993 N84-16440
Scattering models in the microwave regime 12 p1831 N84-21937
Scattering models in the microwave regime 12 p1834 N84-21950
Estimation of albedo and optical thickness with the radiative transfer method 23 p3778 N84-33952
The effect of wavelength filtering in rough surface scattering 23 p3778 N84-33957
FUNG, C. A.
Some considerations in estimating data transformations
[AD-A137960] 12 p1893 N84-22329
FUNG, I.
Three dimensional global modeling of atmospheric CO2
[NASA-TM-85444] 12 p1847 N84-22043
FUNG, S. S.
Topological reaction rate measurements related to scoffing
[NASA-TM-83486] 05 p0652 N84-14288
Surface topographical changes measured by phase-locked interferometry
[NASA-CR-3757] 07 p1074 N84-16984
FUNK, S. D.
Humidity measurement comparison tests: Dew point hygrometer versus wet bulb psychrometer
[PB83-237487] 04 p0539 N84-13546
FUNKENBUSCH, A. W.
A study of adherent oxide formation
[AD-A139505] 14 p2123 N84-23722
FUNKHOUSER, E. A.
Identification of a volatile phytotoxin from algae 09 p1358 N84-18876
FUNKHOUSER, G. E.
The objective evaluation of aircrew protective breathing equipment. 5: Mask/goggles combinations for female crewmembers
[AD-A134912] 08 p1201 N84-17830
FURBY, B. E.
Autonomous surveillance in the visual spectral region 24 p3914 N84-34786
FURCH, B.
Experimental assessment of semiconductor lasers for optical data links in space 24 p3905 N84-34729
FURDON, D. J.
PAN AIR: A computer program for predicting subsonic or supersonic linear potential flows about arbitrary configurations using a higher order panel method. Volume 4: Maintenance document (version 1.1)
[NASA-CR-3254] 23 p3690 N84-33388
FUREIGH, M. L.
Applying robotic technology to the solid film lubricant burnishing operation
[DE84-007113] 12 p1823 N84-21885
FURGASON, E. S.
Grain structure identification by ultrasound frequency averaging and deconvolution
[AD-A134054] 05 p0653 N84-14294
FURIA, L.
Biological effects of millimeter-wave irradiation: Living bacterial organisms
[AD-A142474] 20 p3256 N84-30670
FURLONG, K. L.
A lifting surface computer code with jet-in-crossflow interference effects. Volume 1: Theoretical description
[NASA-CR-166524] 07 p0947 N84-16147
FURMAN, E. G.
Forming of magnetic fields with complex law of variation in time
[AD-A131128] 02 p0287 N84-11879
FURR, R.
Design of a remotely controlled hovercraft vehicle for spill reconnaissance
[PB84-124064] 08 p1105 N84-17187
FURSOV, A. M.
Stable asynchronous two-frequency oscillations in Gunn-effect diode with open resonator structure 22 p3570 N84-32611
FURSOV, A. N.
Ocean bottom seismic equipment 19 p3060 N84-29413
FURSTENAU, R. P.
Surface chemistry of NiO (100)
[AD-A140233] 16 p2463 N84-25785
FURTEK, F. C.
Specifying the behavior of concurrent systems
[NASA-CR-173839] 21 p3464 N84-31957
FURUHAMA, K.
Film cooling on a convex wall: Heat transfer and hydrodynamic measurements for full and partial coverage 23 p3745 N84-33741
FURUKAWA, T.
Hysteresis in copolymers of vinylidene fluoride and trifluoroethylene
[AD-A137446] 10 p1466 N84-19577
FURUSTIG, H.
Man and machine. The role of human factors in system development
[FOA-A-56005-H2] 08 p1206 N84-17863
General principles in text analysis
[FOA-C-56042-H2] 19 p3116 N84-29804
FURUTA, T.
In-plane shear properties of a fabric-CFRP/aluminum-honeycomb sandwich construction
[NAL-TR-773] 09 p1275 N84-18327
FUSARO, R. L.
Low wear partially fluorinated polyimides
[NASA-TM-83629] 15 p2301 N84-24808
Effect of substrate chemical pretreatment on the tribological properties of graphite films
[NASA-TM-83574] 16 p2470 N84-25831
FUSCO, G.
Stable equilibria in a scalar parabolic equation with variable diffusion
[AD-A131221] 01 p0134 N84-10877
FUSCO, L.
Geometric performance: Line to line displacement analysis 10 p1524 N84-19983
A preliminary analysis of LANDSAT-4 Thematic Mapper radiometric performance 20 p3208 N84-30379
TM failed detectors data replacement 20 p3208 N84-30382
Status of the ESA-Earthnet LANDSAT-4 TM ground processing chain 20 p3210 N84-30391
FUSCO, P. R.
Spacelab 4: Primate experiment support hardware 15 p2348 N84-25092
FUSSELL, D. S.
On mapping homogeneous graphs on a linear array-processor model
[AD-A139912] 15 p2398 N84-25386
FUSSELL, P. S.
Precision flexible machining cells within a manufacturing system
[AD-A134864] 08 p1167 N84-17595
Precision flexible machining cells within a manufacturing system
[AD-A142527] 20 p3170 N84-30129
FUST, H. D.
The deep diving simulator TITAN: Physiological problems of stays in large water depths 17 p2745 N84-27427
FUTRELL, J. H.
Manufacture of DPFC-DMS polymer in the SKG range
[NASA-CR-166276] 18 p2817 N84-27888
FYFE, D. E.
Numerical simulations of fuel droplet flows using a Lagrangian triangular mesh
[NASA-CR-168263] 03 p0370 N84-12411

G

GABASOV, R.
Two-phase methods of solving canonical problem of linear programming 21 p3484 N84-32078
GABBARD, J. R.
History of on-orbit satellite fragmentations
[NASA-CR-171814] 24 p3859 N84-34461
GABEL, R. A.
Naloxone does not affect ventilatory responses to hypoxia and hypercapnia in rats
[AD-A131836] 03 p0414 N84-12708
GABLE, R. G.
Properties of aircraft fuels and related materials
[AD-A141068] 19 p3001 N84-29019
GABLER, L.
Predevelopment of IR-CCD components
[BMFT-FB-T-83-133] 03 p0456 N84-13001
GABOVICH, M. D.
Welding with alloying and ultrasonic treatment with an ion beam 12 p1786 N84-21852
GABRIEL, C.
Optics and quantum electronics 22 p3682 N84-33343
GABRIEL, J. R.
Algorithms for automated diagnosis of faults in physical plant
[DE84-000192] 04 p0582 N84-13841
Design philosophy for reliable systems, including control
[DE84-012681] 20 p3279 N84-30814
GABRIEL, W.
The Project STRAFAM: Test of a new parachute based instrument carrier for stratospheric research
[BMFT-FB-W-84-021] 21 p3445 N84-31859
GABRIEL, W. F.
A high-resolution target-tracking concept using spectral estimation techniques
[AD-A141921] 20 p3173 N84-30149
GABRIELSON, V. K.
Shell shock structural code, fourth edition
[DE84-009549] 18 p2853 N84-28118
GABY, J. E.
Artificial intelligence applied to spectrum estimation
[AD-A142202] 19 p3007 N84-29062
GAC, F. D.
Production and characterization of beta-silicon carbide and alpha-silicon nitride whiskers for ceramic matrix composites
[LA-9650-MS] 06 p0797 N84-15197
GACEK, A.
A diode model of high energy particle emission in the plasma focus device 10 p1582 N84-20368
GAD-EL-HAK, M.
Experimental studies of unsteady phenomena in boundary layers
[AD-A133769] 05 p0680 N84-14471
GADAJ, S. P.
Acoustic emission accompanying phase change in deformed 1H18N9T steel
[ISSN-0208-5658] 19 p2991 N84-28952
GADALOV, V. N.
Influence of boundary volume structure on grain boundary relaxation of cast heat resistant nickel alloys 24 p3877 N84-34569

GADDY, E. M.
Solar-array-materials passive LDEF experiment (A0171) 15 p2274 N84-24656
GADGIL, A.
Computer program for studying turbulent convection in buildings 16 p2517 N84-26155
GADOURY, R. A.
Water resources data for Massachusetts and Rhode Island, water year 1982 [PB84-180009] 20 p3229 N84-30521
GAEBLER, W.
GfW handbook: Irradiation test guidelines for radiation hardness of electronic components [HMI-B-380] 17 p2664 N84-26994
GAEDKE, M.
Determination of characteristic values for fiber reinforced materials 10 p1452 N84-19481
GAERTNER, R.
Dynamic behavior of composite layered beams by the finite element method 10 p1511 N84-19892
GAFARIAN, A. V.
The 2-on-1 stochastic duel [AD-A143679] 23 p3620 N84-34224
GAFFEY, J. D., JR.
Acceleration of ions and electrons by wave-particle interactions [AD-A142341] 20 p3292 N84-30900
GAFFIELD, T.
A SAR for real-time ice reconaissance 23 p3765 N84-33869
GAFFNEY, F. A.
Cardiac chamber volumes by echocardiography using a new mathematical method: A promising technique for zero-G use 09 p1358 N84-18874
GAFNER, G.
The unique surface properties of gold 06 p0815 N84-15310
GAFNER, M.
Work done to determine the source of errors on conditioned pressure transduce signals in the JT9D-7F turbofan engines used on SAA Boeing 747 aircraft [NIAST-82/78] 04 p0486 N84-13192
Design report: Two axis rotational rate measurement system using rate gyros [NIAST-83/08] 07 p1068 N84-16938
GAFNI, E. M.
Asymptotic optimality of shortest path routing [AD-A132280] 04 p0521 N84-13423
Dynamic control of session input rates in communication networks [AD-A133572] 06 p0825 N84-15379
GAGALOWICZ, A.
A parallel method for natural texture synthesis [AD-A139889] 15 p2398 N84-25385
Synthesis of natural textures on 3-d surfaces [AD-A139869] 15 p2407 N84-25452
GAGE, K. S.
Jet stream related observations by MST radars 17 p2682 N84-27078
On the morphology of the scattering medium as seen by MST/ST radars 17 p2684 N84-27086
On the measurement of vertical velocity by MST radar 17 p2687 N84-27111
GAGLIANI, J.
Rigid closed-cell polyimide foams for aircraft applications and foam-in-place technology [NASA-CR-171805] 22 p3559 N84-32535
GAGLIANI, J., JR.
Rigid closed-cell polyimide foams for aircraft applications and foam-in-place technology [NASA-CR-171805] 22 p3559 N84-32535
GAGNAGE, B.
Nondestructive testing of composite structures [SNIAS-832-210-108] 16 p2500 N84-26045
GAGNEPAIN, J. J.
Tectonic deformation of the Andes and the configuration of the subducted slab in central Peru: Results from a micro-seismic experiment [NASA-CR-175445] 11 p1681 N84-20972
Low temperature quartz crystal oscillator fast warm-up SAW oscillator [AD-A138024] 12 p1811 N84-21806
GAGUA, T. I.
Plasma processes in the region of electron beam injection from a high altitude payload 05 p0637 N84-14194
Plasma processes caused by an electron beam injected from a high altitude rocket probe. Part 1: Neutralization processes [IWF-8302] 17 p2728 N84-27363
Plasma processes caused by an electron beam injected from a high altitude rocket probe. Part 2: Studies of beam-plasma discharge [IWF-8303] 17 p2728 N84-27364
GAHAN, L. S.
Analysis of shuttle oscillation in the Mach Number = 1.7 to Mach Number = 1.0 range 01 p0021 N84-10132
GAHN, R. F.
Negative electrode catalyst for the iron-chromium REDOX energy storage system [NASA-CASE-LEW-14026-1] 22 p3616 N84-32909
GAILLARD, A. W. K.
The effects of marginal vitamin deficiency on mental performance [IZF-1983-29] 18 p2914 N84-28483
GAILLARD, F.
Experimental study and modeling of the kinetics of hydrocarbon combustion 15 p2292 N84-24754
GAILLARD, J. F.
Non-invasive methods of cardiovascular exploration in aerospace medicine [AGARD-AG-277(E)] 11 p1699 N84-21082
The contribution of nuclear medicine to cardiology 11 p1700 N84-21092
GAILLAT, G.
Statistical methods of pattern recognition [ISBN-2-7225-0694-7] 16 p2544 N84-26330
GAINER, T. G.
Low-speed investigation of effects of wing leading- and trailing-edge flap deflections and canard incidence on a fighter configuration equipped with a forward-swept wing [NASA-TM-85795] 17 p2600 N84-26667
GAINES, G. B.
Carbon dioxide sensor technology [AD-A133688] 05 p0716 N84-14690
GAINES, L. L.
Economics of hydrogen production: The next 25 years [DE84-007279] 21 p3374 N84-31414
GAINES, L. M.
Launch vehicle aerodynamic flight test results 01 p0019 N84-10119
GAISSER, T. K.
Particle theory, cosmology and relativity [DE84-003990] 11 p1760 N84-21489
GAJEWSKI, K.
Comparison of the Liapunov Method and the method of total disparities using the example of selected differential equations [ISSN-0208-5658] 19 p3081 N84-29553
GAL-EZER, R. J.
Linear or square array for eigenvalue and singular value decompositions? 09 p1401 N84-19150
GAL, D.
Some aspects of mathematical and chemical modeling of complex chemical processes [NASA-TM-77055] 07 p0969 N84-16279
GAL, J.
New polyconjugated oxidation-reduction polymers, as well as a method and apparatus for electrochemical regeneration [DE84-002813] 06 p0810 N84-15276
GALAN, R.
The man-machine interface in new generation commercial aircraft 06 p0777 N84-15096
GALBRAITH, H. W.
Chaos in semiclassical model of multiphoton excitation of spherical top molecules [DE83-014201] 02 p0289 N84-11897
GALBRAITH, J. A.
Quaternary naltrexone reverses radiogenic and morphine-induced locomotor hyperactivity [AD-P003252] 18 p2905 N84-28419
GALBRAITH, L. D.
Hot gas APU starter for advanced aircraft applications 03 p0335 N84-12178
GALBRAITH, R. A. M.
An algorithm for the prediction of unsteady potential flow about an arbitrary aerofoil [GU-AERO-8306] 15 p2257 N84-24553
An investigation of three-dimensional stall development on NACA 23012 and NACA 0012 aerofoils [GU-AERO-8300] 15 p2257 N84-24554
GALCHENKOV, D. V.
Variation of carrier concentration caused by band structure reconstruction in tellurium and tin-doped Al(x)Ga(1-x)As solid solutions 17 p2636 N84-26861
GALEENER, F. L.
Vibrational studies of the structure of disordered solids [AD-A142297] 20 p3202 N84-30338
GALEEV, A. A.
Beam plasma discharge and suprathermal electron tails 05 p0637 N84-14192
Electron acceleration in the front of intense collisionless shock waves [PR-613] 08 p1154 N84-17511
GALEYEV, R. M.
Plasticity of large-grain titanium alloy type VT30 in the beta area 23 p3708 N84-33508
GALICHIY, A. A.
Studies of amplifier module in Delfin Facility for heating thermonuclear plasma 20 p3289 N84-30881
GALICHIY, V. A.
Reliability and efficiency of Kubicek rheographic method for monitoring cardiac output and stroke volume 20 p3253 N84-30644
GALINDO-ISRAEL, V.
Synthesis of offset dual shaped subreflector antennas for control of Cassegrain aperture distributions [AD-P003517] 21 p3385 N84-31485
GALIOTIS, C.
Development of high modulus polydiacetylene fibres for use in fibre-reinforced composites [AD-A140912] 17 p2627 N84-26809
GALIYEV, S. U.
Influence of anisotropy and viscosity on propagation on waves in multilayer cylinders 12 p1788 N84-21660
Analysis of unsteady processes caused by nonaxisymmetrical loading of finite multilayer cylinders 12 p1788 N84-21661
GALKIN, A. A.
Some aspects of dosimetry in studies of biological effects of nonionizing electromagnetic radiation 15 p2375 N84-25248
Rat behavior in selection of negative stimulus: Pain or exposure to electromagnetic field 20 p3255 N84-30657
GALKIN, S. V.
Fluctuation of velocity distribution under influence of suspended particles on turbulence in bottom current 17 p2699 N84-27191
GALKINA, T. B.
Physiological and ecological characteristics of the water fern, azolla pinnata, and prospects of using it in biological life-support system for man 02 p0261 N84-11709
GALL, P. D.
An experimental and theoretical analysis of the aerodynamic characteristics of a biplane-winglet configuration [NASA-TM-85815] 19 p2963 N84-28779
GALLACHER, P. C.
A determination of the constants for a second-order closure turbulence model from geophysical data [AD-A134826] 08 p1195 N84-17795
GALLAGHER, B. D.
Increased voltage photovoltaic cell [NASA-CASE-NPO-16155-1] 11 p1673 N84-20917
Module degradation catalyzed by metal-encapsulation reactions 12 p1839 N84-21989
GALLAGHER, C. C.
Observations of major stratospheric chlorine species [AD-A138646] 13 p2011 N84-23045
GALLAGHER, D. L.
A potential control method for thermal plasma measurements on the DE-1 spacecraft 08 p1119 N84-17276
GALLAGHER, H. G.
The influence of lattice imperfections on the chemical reactivity of solids. The growth and perfection of TNT (trinitro-toluene) single crystals [AD-A140408] 16 p2560 N84-26425
GALLAGHER, J. J.
Investigation of the effects of long-duration exposure on active optical system components (S0050) 15 p2279 N84-24687
GALLAGHER, J. P.
Evaluation of the crack growth gage concept as an individual aircraft tracking device, volume 1 [AD-A136932] 10 p1428 N84-19340
Evaluation of COD (Crack-Opening-Displacement) compliance determined crack growth rates [AD-A144037] 23 p3761 N84-33838
GALLAGHER, J. S.
Thermodynamic surface for water: The formulation and computer programs [PB83-249789] 04 p0496 N84-13256
GALLAGHER, L. J.
Computer science and technology: Guide on data models in the selection and use of database management systems [PB84-162189] 14 p2206 N84-24243
Computer science and technology: Report on approaches to database translation [NBS-SP-500-115] 20 p3268 N84-30739
GALLAGHER, N. C., JR.
Design and fabrication of circular and rectangular components for electron-cyclotron-resonant heating of tandem mirror experiment-upgrade [DE84-003244] 07 p1078 N84-17010
Polarizing holographic reflector for Electron Cyclotron Resonant Heating (ECRH) on the Tandem Mirror Experiment Upgrade (TMX-U) [DE84-003740] 08 p1162 N84-17568

Circular waveguide systems for electron-cyclotron-resonant heating of the tandem mirror experiment-upgrade
[DE84-003739] 08 p1233 N84-18062
Focusing twist reflector for electron-cyclotron resonance heating in the Tandem Mirror Experiment-upgrade
[DE84-012954] 22 p3578 N84-32663

GALLAGHER, W.
High charge picosecond pulses with a double gap subharmonic buncher
[DE83-011743] 01 p0143 N84-10939

GALLARDO, V. C.
Blade loss transient dynamics analysis with flexible bladed disk
[NASA-CR-168176] 04 p0486 N84-13193

GALLAS, J. A. C.
Absorptive optical bistability with laser amplitude fluctuations 14 p2238 N84-24430

GALLAURESI, D. R.
Interactive raster data structure study
[AD-A130195] 01 p0100 N84-10649

GALLAWA, R. L.
Measurement of multimode optical fiber attenuation
[PB83-151207] 05 p0748 N84-14913
Optical fiber characterization: Attenuation, frequency domain bandwidth, and radiation patterns, volume 2
[PB84-158914] 14 p2226 N84-24357
Measurement of multimode optical fiber attenuation: An NBS special test service
[PB84-192202] 21 p3499 N84-32179

GALLAWAY, C. R.
Numerical aerodynamic analysis of a free falling autorotating plate
[AD-A138900] 14 p2102 N84-23612

GALLERY, W. O.
Air mass computer program for atmospheric transmittance/radiance calculation: FSCATM
[AD-A132108] 04 p0583 N84-13712
Atmospheric transmittance/radiance: Computer code LOWTRAN 6. Supplement: Program listings
[AD-A137689] 11 p1706 N84-21123

GALLEY, D. P.
Transport properties of amorphous silicon-germanium alloy films. Volume 2: Appendices
[DE84-006879] 15 p2414 N84-25495
Transport properties of amorphous silicon-germanium alloy films. Volume 1: Technical summary
[DE84-006878] 15 p2414 N84-25497

GALLI, G.
Digital radar information in the Swiss Meteorological Institute 18 p2886 N84-28319

GALLIDEPARATESI, S. R.
Marine remote sensing activities of the Joint Research Center, Ispra, Italy 03 p0396 N84-12586
Remote monitoring of sediments and chlorophyll as traces of pollutant movements in a Mediterranean coastal area 23 p3780 N84-33969

GALLILY, I.
The orientation distribution on nonspherical aerosol particles within a cloud
[AD-A140470] 16 p2526 N84-26216

GALLIS, M. R.
Laser diagnostic development and measurement and modeling of turbulent flowfields of jets and wakes. Part 3: The development of a 2-channel CW Time-Resolved Laser Raman Spectroscopy (TiLaRS) system for measurements in gas flowfields
[AD-A134693] 08 p1159 N84-17544

GALLIVAN, K. A.
Algorithm for the detection and integration of highly oscillatory ordinary differential equations using a generalized unified modifiec divided difference representation
[DE84-003585] 08 p1222 N84-17978

GALLO, A. M.
Forced vibration analysis of rotating cyclic structures in NASTRAN
[NASA-CR-165429] 02 p0231 N84-11514
NASTRAN documentation for flutter analysis of advanced turbopropellers
[NASA-CR-167927] 06 p0790 N84-15153
Bladed-shrouded-disc aeroelastic analyses: Computer program updates in NASTRAN level 17.7
[NASA-CR-165428] 06 p0790 N84-15154
Acoustical modes of arbitrary volumes using NASTRAN transient heat transfer RF9 06 p0859 N84-15597
An alternative method of analysis for base accelerated dynamic response in NASTRAN
06 p0859 N84-15598
NASTRAN forced vibration analysis of rotating cyclic structures
[NASA-CR-173821] 19 p3035 N84-29252
Four new capabilities in NASTRAN for dynamic and aeroelastic analyses of rotating cyclic structures
22 p3611 N84-32876

GALLOP, L. D.
Effects of fuels on the physical properties of nitrile rubber O-rings
[AD-A136647] 10 p1470 N84-19599
Properties of fuels employed in a gas turbine combustor program
[AD-A136663] 10 p1470 N84-19600
Comparison of JFTOT (Jet Fuel Thermal Oxidation Tester) and absorbance methods for determining jet fuel thermal stability
[AD-A138673] 15 p2304 N84-24825

GALLOWAY, D.
Self-consistent models for Coulomb heated X-ray pulsar atmospheres
[NASA-TM-85087] 02 p0307 N84-12012

GALLOWAY, W. J.
Studies to improve environmental assessments of sonic booms produced during air combat maneuvering
[AD-A138254] 12 p1899 N84-22368

GALLUCCIO, D.
IUE integrated spectra of galactic globular clusters
24 p3982 N84-35230

GALLUS, H. E.
Unsteady interactions in supersonic compressor stages 16 p2490 N84-25972

GALPERIN, Y. I.
Diffuse auroral zone. Part 7: Dynamics of equatorial boundary in field of diffuse electron spill in evening sector 19 p2973 N84-28846

GALPIN, J. S.
Selecting a subset of regression variables so as to maximize the prediction accuracy at a specified point
[CSIR-TWISK-275] 04 p0591 N84-13903

GALSTON, A. W.
Mechanisms of graviperception and response in pea seedlings 09 p1353 N84-18839

GALSWORTHY, J. C.
Corrosion fatigue crack growth rates of weldments in Q1N steel
[AD-A141261] 18 p2814 N84-27864

GALUSKA, A. A.
Matrix calibration for the quantitative analysis of layered semiconductors by secondary ion mass spectrometry
[AD-A130972] 02 p0298 N84-11954
Point-by-Point matrix effect calibration for the quantitative analysis of layered semiconductors by secondary ion mass spectrometry
[AD-A134099] 05 p0752 N84-14933
Oxide bond energies for the calibration of matrix effects in secondary ion mass spectrometry
[AD-A139633] 15 p2413 N84-25483

GALVAO, R. M. O.
Beat-wave current drive in a magnetized plasma
[DE84-001556] 07 p1077 N84-17003

GALVEZ, J. L.
ISEE-3 microwave filter requirements
10 p1475 N84-19632

GALVIN, A. B.
Iron charge states observed in the solar wind
03 p0473 N84-13112

GALVIN, G. J.
Pulsed laser melting: The effect of implanted solutes on the resolidification velocity
[DE84-003252] 07 p1010 N84-16552

GALVIN, R. P.
Stress-corrosion behavior of aluminum-lithium alloys in aqueous environments
[NASA-TM-85853] 02 p0193 N84-11256

GAMACHE, J. F.
A composite analysis of a tropical squall-line system
04 p0565 N84-13727

GAMACHE, R. R.
Automatic electron density profiles from digital ionograms 06 p0869 N84-15659
Automatic real time ionogram scaler with true height analysis - artist
[AD-A135174] 08 p1187 N84-17732

GAMBLE, J. D.
The application of aerodynamic uncertainties in the design of the entry trajectory and flight control system of the space shuttle orbiter 01 p0022 N84-10141

GAMBLE, W. W.
Some management initiatives to improve embedded commercial computer and training device life cycle support
[AD-P003494] 21 p3514 N84-32260

GAMMEL, F.
Fabrication of pressure vessels from fiber reinforced aluminum by electroforming for space application
[BMFT-FB-W-84-009] 19 p3032 N84-29235

GAMMINO, G.
A comparison between new and traditional ultrasonic techniques on thick welds in pressure vessels
[CISE-2074] 05 p0690 N84-14534

GAMPE, F.
Docking mechanism for in-orbit assembly and spacecraft servicing 15 p2267 N84-24614

GAN, M. A.
Synoptic meteorology in Antarctica
[INPE-3201-NTE/222] 23 p3800 N84-34095

GANAPTHI, V.
Excitation of simple atoms by slow magnetic monopoles
[DE84-006209] 12 p1903 N84-22393

GANDARILLAS, F. E.
Canyon and slope processes study. Volume 3: Biological processes
[PB84-169507] 17 p2738 N84-27393

GANDERT, R.
General Integrated Multipurpose Inflight Calibration System (GIMICS) 24 p3851 N84-34420

GANDHI, A.
Finite element model to compute stresses in composite masonry due to creep, shrinkage and temperature
[PB84-152578] 14 p2159 N84-23933

GANDHI, M.
Combined tension-torsion of a cylindrical mixture of an elastic solid and fluid
[AD-A136351] 09 p1331 N84-18689
Pressure induced radial diffusion of a fluid through a thick walled highly elastic cylinder
15 p2313 N84-24881

GANDHI, O. P.
Biological effects of millimeter-wave irradiation: Living bacterial organisms
[AD-A142474] 20 p3256 N84-30670

GANDIA, V.
Use of satellites in frost forecasting: SIPHES
23 p3775 N84-33931

GANDY, C.
A transportable satellite Earth station
[BBC-RD-1984/8] 22 p3571 N84-32614

GANDY, R.
Lower hybrid experiments at the 1 MW level on Alcator C: Heating and current drive
[DE84-010586] 20 p3304 N84-30981

GANGSAAS, D.
Integrated Application of Active Controls (IAAC) technology to an advanced subsonic transport project: Current and advanced act control system definition study, volume 1
[NASA-CR-165631-VOL-1] 19 p2967 N84-28802
Integrated Application of Active Controls (IAAC) technology to an advanced subsonic transport project: Current and advanced act control system definition study. Volume 2: Appendices
[NASA-CR-165631-VOL-2] 19 p2967 N84-28803

GANGULI, G.
Electrostatic ion-cyclotron waves in magnetospheric plasmas: Non-local aspects
[NASA-CR-174501] 05 p0749 N84-14917
Finite geometry effects on the stability of a charged beam propagating through a relativistic annular electron beam
[AD-A133338] 06 p0915 N84-15948
Geophysical plasmas and atmospheric modeling
[AD-A142573] 20 p3240 N84-30572
Influence of magnetic shear on the collisional current driven ion cyclotron instability
[AD-A143391] 22 p3659 N84-33191
Temporal evolution of whistler growth in a cold plasma injection experiment
[NASA-CR-173972] 23 p3828 N84-34280

GANGWANI, S. T.
Aeroelastic analysis for propellers - mathematical formulations and program user's manual
[NASA-CR-3729] 03 p0388 N84-12530

GANNON, B. T.
Crew survivable helicopter undercarriage
[AD-A137770] 11 p1606 N84-20517

GANNON, C.
J73AVS: A JOVIAL J73 automated verification system
[AD-P003521] 21 p3329 N84-31125

GANNON, D.
On the impact of communication complexity in the design of parallel numerical algorithms
[NASA-CR-172436] 22 p3637 N84-33059

GANNON, D. B.
The Pringle parallel computer
[AD-A140852] 17 p2750 N84-27452

GANNON, E.
Zinc electrode morphology in acid electrolytes
[DE84-007184] 14 p2124 N84-23728

GANNON, J. D.
Combining testing with formal specifications: A case study
[AD-A134110] 05 p0726 N84-14764
Research in programming languages and software engineering
[AD-A136037] 09 p1369 N84-18937

GANS, R. F.
Liquid management in low gravity using baffled rotating containers
[NASA-TP-2263] 06 p0834 N84-15427
GANSHIN, V. N.
Application of recurrent formulas for solving main geodetic problems 18 p2861 N84-28166
GANSVIND, I. N.
Gravitational orientation of the orbital complex, Salyut-6--Soyuz
[NASA-TM-77290] 07 p0961 N84-16228
GANZER, U.
Development of a wind tunnel test section with adaptive flexible walls for three-dimensional flow
[BMFT-FB-W-83-026] 10 p1495 N84-19776
A short note on recent advances in the adaptive wall technique for 3D-model tests at the TU-Berlin 14 p2095 N84-23571
GAO, M.
Quasi-cleavage and martensite habit plane
[AD-A137378] 10 p1459 N84-19527
Crack paths and hydrogen-assisted crack growth response in AISI 4340 steel
[AD-A137388] 10 p1459 N84-19528
Role of microstucture in hydrogen assisted cracking 11 p1631 N84-20667
GAO, Z.
Simplified Navier-Stokes equations and combined solution of non-viscous and viscous boundary layer equations
[AD-A141634] 21 p3399 N84-31564
GAPOSCHKIN, E. M.
The Lorentz Transformation and the radar Doppler equation
[AD-A137901] 11 p1643 N84-20745
Geodetic use of GEOSAT-A
[AD-A137993] 13 p2011 N84-23048
GAPPOYEV, A. B.
High-speed thyristors on weakly doped GaAs 22 p3568 N84-32600
GARABEDIAN, P.
Magnetohydrodynamic equilibrium and stability of stellarators
[DE84-010731] 20 p3305 N84-30994
GARAVELLI, J. S.
Identification of a volatile phytotoxin from algae 09 p1358 N84-18676
GARAY, G. A.
Aperture synthesis observations of star forming regions: Compact H2 regions and masers 06 p0937 N84-16092
GARBA, J. A.
The 55-meter-structure flight experiment 08 p1112 N84-17233
GARBER, F. D.
Performance of digital communications over selective fading channels
[AD-A142427] 20 p3174 N84-30158
Performance of digital communications over selective fading channels 21 p3381 N84-31456
GARBER, M.
Correlation of superconductor strand, cable, and dipole critical currents in CBA magnets
[DE83-003951] 02 p0214 N84-11400
GARBER, R.
Terminal oversight: The editor and the word processor
[DE84-012648] 21 p3519 N84-32295
GARBER, S. C.
Accounting utility for determining individual usage of production level software systems
[NASA-CR-172414] 21 p3464 N84-31959
GARBINCIUS, P. H.
Operational studies and expected performance of superconducting quadrupole magnets in the first stages of secondary beams
[DE83-016734] 03 p0456 N84-12999
GARBINI, J. L.
Interactive wire-frame ship hullform generation and display 12 p1874 N84-22209
GARBOW, J. R.
SPEC-DOC: A user's guide to spectrometer software
[DE83-013295] 02 p0274 N84-11790
GARBUNY, M.
Measurement of heat pump processes induced by laser radiation
[NASA-CR-166324] 09 p1319 N84-18620
GARCIA-COLEVATTI, J. L.
Transport properties of amorphous silicon-germanium alloy films. Volume 2: Appendices
[DE84-006879] 15 p2414 N84-25495
Transport properties of amorphous silicon-germanium alloy films. Volume 1: Technical summary
[DE84-006878] 15 p2414 N84-25497
GARCIA-MUNOZ, M.
The ISPM cosmic-ray and solar-particle investigation 09 p1262 N84-18236
GARCIA-PALOMARES, U. M.
Minimax solution of a nonlinear system of mixed equalities and inequalities
[DE84-003870] 11 p1709 N84-21137
GARCIA, A.
Purification of metals by zone melting. An optimization 15 p2307 N84-24839
Full Authority Digital Engine Control (FADEC)
[SNIAS-832-111-101] 16 p2450 N84-25714
GARCIA, A., III
Non-noble metal based metallization systems 12 p1839 N84-21993
Development of metallization process
[NASA-CR-173956] 23 p3786 N84-34014
Design, analysis and test verification of advanced encapsulation systems
[NASA-CR-173955] 23 p3787 N84-34016
Development of metallization process: FSA project, cell and module formation research area
[NASA-CR-173951] 23 p3788 N84-34022
Design, analysis and test verification of advanced encapsulation systems
[NASA-CR-173941] 23 p3789 N84-34028
Development of metallization process. FSA project, cell and module formation research area
[NASA-CR-173959] 23 p3789 N84-34030
Development of metallization process
[NASA-CR-173943] 23 p3789 N84-34031
Development of metallization process: FSA project, cell and module formation research area
[NASA-CR-173996] 24 p3884 N84-34609
GARCIA, C.
2nd Joint Solar Dynamics Project data summary: Solar magnetic field, chromospheric and coronal observations near the time of the 11 June 1983 solar eclipse
[NASA-CR-173340] 09 p1417 N84-19272
Summary of solar activity observed in the Mauna Loa Solar Observatory, 1980 - 1983
[PB84-137587] 11 p1760 N84-21484
White light solar corona: An atlas of 1983 K-coronameter synoptic charts
[PB84-184159] 20 p3320 N84-31075
GARCIA, E. M.
MIL-STD-1750A as a spaceborne instruction set architecture
[AD-P003554] 21 p3334 N84-31158
GARCIA, F., JR.
A comparison of measured and theoretical predictions for STS ascent and entry sonic booms 01 p0027 N84-10168
GARCIA, J. F. L.
Microcomputers: A tool for planning and scheduling construction projects
[PB83-211201] 01 p0160 N84-11053
GARCIA, L.
Equilibrium studies for low-aspect-ratio torsatrons
[DE84-002264] 06 p0920 N84-15979
ATF-1 torsatron studies
[DE84-003314] 09 p1392 N84-19089
Reliability of initial-value MHD calculations of Tokamak disruptions
[DE84-013600] 22 p3659 N84-33193
GARCIA, R.
Methods of improving the matrix dominated performance of composite structures: A technical review
[AD-A131257] 01 p0032 N84-10201
GARCIA, R. D.
Radiative cooler
[NASA-CASE-NPO-15465-1] 13 p1988 N84-22903
GARCIA, R. R.
Monthly mean determination of the solar semidiurnal surface pressure oscillation at Batavia from 1866 through 1944
[PB84-184795] 20 p3244 N84-30593
GARCIA, S. K.
Validation of relative-time-spent rating scales
[AD-A144067] 23 p3812 N84-34169
GARD, S. R.
Thermistor chain observations during MILDEX (mixed layer dynamics experiment)
[AD-A143933] 23 p3803 N84-34114
GARDELLA, N. C.
Catalog of selected heavy duty transport energy management models
[NASA-CR-168299] 05 p0761 N84-14991
GARDELLA, P. R., JR.
The determination of user information requirements during the development of management information systems
[AD-A132998] 05 p0759 N84-14980
GARDINER, C. W.
Quantum theory of optical excitonic bistability 14 p2237 N84-24427
GARDINER, P. C.
An application of the causal-integrative model
[AD-P002786] 13 p2056 N84-23333
GARDINER, T. M.
Chemical and physical processes on nonemissive grids
[EVT-825] 12 p1794 N84-21700
GARDNER, C. E.
Chain reaction mechanism for I2 dissociation in the O2 (1 delta)-I atom laser
[AD-A134370] 07 p1010 N84-16548
GARDNER, C. S.
Analysis of short pulse laser altimetry data obtained over horizontal path
[NASA-CR-170612] 06 p0849 N84-15535
Remote sensing of atmospheric pressure and sea state from satellites using short-pulse multicolor laser altimeters 06 p0872 N84-15674
Theoretical and experimental analysis of laser altimeters for barometric measurements over the ocean
[NASA-CR-175443] 11 p1662 N84-20842
Timing performance of phased-locked loops in optical pulse position modulation communication systems
[NASA-CR-173970] 23 p3824 N84-34253
GARDNER, D. E.
Influence of nitrogen dioxide on xenobiotic metabolism in animals
[PB83-239723] 02 p0265 N84-11743
GARDNER, F. M.
Multipath link and modem design for satellite mobile communications
[ESA-CR(P)-1833] 12 p1809 N84-21793
GARDNER, G. H., III
An experimental evaluation of the thermal performance of a rotating heat pipe with internal axial fins
[AD-A132553] 04 p0533 N84-13504
GARDNER, J.
Variation of laser absorption with plasma scalelength in long-scalelength plasmas
[DE84-002743] 06 p0921 N84-15991
Physiology 22 p3684 N84-33363
GARDNER, J. A.
Phase transformation study of Cu2S
[AD-A135587] 09 p1279 N84-18352
TDPAC (Time Differential Perturbed Angular Correlations) study of liquid and amorphous se sub (1-x)Te sub x alloys
[AD-A135588] 09 p1279 N84-18353
VHSIC (Very High Speed Integrated Circuits) for training systems
[AD-P003484] 21 p3513 N84-32251
GARDNER, J. E.
Loads and aeroelasticity division research and technology accomplishments for FY 1982 and plans for FY 1983
[NASA-TM-84594] 06 p0782 N84-15120
Loads and aeroelasticity division research and technology accomplishments for FY 1983 and plans for FY 1984
[NASA-TM-85740] 08 p1097 N84-17135
GARDNER, J. H.
A review of research in chemical-acoustic coupling
[AD-A129896] 01 p0140 N84-10915
Stimulated Brillouin backscatter in long scale length plasmas
[DE83-013817] 01 p0150 N84-10984
Analysis of stability and symmetry implications for ICF
[DE84-000640] 04 p0540 N84-13556
Vortex shedding and laser ablation
[DE84-000301] 04 p0541 N84-13565
X-ray production in long-scale length laser-plasma interaction experiments
[DE84-002472] 07 p1076 N84-16997
Theory of beam channel hydrodynamics
[AD-A139595] 14 p2229 N84-24365
GARDNER, J. W.
RIM-AIR (Repairable Integrated Model for aviation) study
[AD-A131141] 02 p0169 N84-11113
GARDNER, L.
The relationship between electrical conductivity and temperature of aviation turbine fuels containing static dissipator additives
[AD-A135751] 09 p1290 N84-18421
Aviation fuel specification requirements: Their significance and future trends 15 p2289 N84-24733
GARDNER, M. E.
Properties of the neutral density and composition in the thermosphere
[AD-A131557] 03 p0407 N84-12665
GARDNER, W. D.
Canyon and slope processes study. Volume 2: Physical processes
[PB84-169499] 17 p2738 N84-27392

GARDNER, W. L.
Experimental results on finite-beta limits and transport in the ISX-B Tokamak
[DE84-000258] 04 p0606 N84-14001
GARELIS, E.
Numerical solution to the steady state equation of transfer in azimuthally symmetric geometries
[DE84-001781] 06 p0845 N84-15509
GARELLO, R.
Techniques for studying gravity waves and turbulence: Vertical wind speed power spectra from the troposphere and stratosphere obtained under light wind conditions
17 p2688 N84-27120
GARETT, B. C.
Theoretical predictions of excitation cross sections for collisions of HF, HCl, CO, H2O, and CO2 with O(P-3)
13 p1942 N84-22630
GARG, A.
Hygrothermal influence on delamination behavior of graphite/epoxy laminates
[NASA-TM-85935] 12 p1826 N84-21904
Hygrothermal effects on mechanical behavior of graphite/epoxy laminates beyond initial failure
[NASA-TM-86001] 22 p3544 N84-32438
GARISCH, I.
Various solutions in multiple Bayesian's decision and multinormal estimation problems
[TR-78] 04 p0588 N84-13882
GARKUNOV, D. N.
Zero wear (selective mass transfer): New step toward higher wear resistance of machine parts
17 p2642 N84-26804
GARLICHS, G.
Temperature dependance and temporal fluctuations of the birefringence of some single-mode fibers
[FI-452-TBR-56] 14 p2225 N84-24356
GARLICK, R. G.
High-temperature cyclic oxidation data, volume 1
[NASA-TM-83665] 21 p3365 N84-31345
GARMEZY, L.
Geology and geochronology of the southeast border of the Bitterroot Dome: Implications for the structural evolution of the Mylonitic Carapace
13 p2014 N84-23065
GARMIRE, E.
Characteristics of an integrated optics ring resonator
[AD-A135878] 09 p1389 N84-19069
Nonlinearities at the bandgap in InAs
14 p2233 N84-24395
Optical bistability in four-level nonradiative dyes
14 p2237 N84-24425
Travelling wave bistability 14 p2237 N84-24426
GARMLAND, S.
SAPIENS MEMO 5: The mechanical design of the EMP-simulator SAPIENS
[FOA-C-30320-A3] 08 p1106 N84-17192
GARMON, J. P.
Marine Air Traffic Control And Landing System (MATCALS) investigation
[AD-A130309] 01 p0007 N84-10045
GARMON, P.
Analysis of excess attenuation in optical fibers subjected to low temperatures 11 p1722 N84-21232
GARN, W. B.
Megavolt pulse transformer powered by a fast plate generator
[DE83-014189] 03 p0366 N84-12384
GARNER, F. A.
Low activation approaches to materials development
[DE83-015972] 02 p0196 N84-11273
Factors which determine the swelling rate of austenitic stainless steels
[DE84-001474] 05 p0656 N84-14315
Correlation of fracture toughness with tensile properties for irradiated 20% cold-worked 316 stainless steel
[DE84-003954] 08 p1135 N84-17379
Thermal creep and stress-affected precipitation of 20% cold-worked 316 stainless steel
[DE84-004933] 10 p1461 N84-19539
Transmutation of manganese: Substituted steels in STARFIRE
[DE84-010402] 20 p3155 N84-30035
Effective thermophysical and elastic properties of materials with voids
[DE84-013942] 22 p3549 N84-32465
Fundamental alloy studies
[DE84-013941] 22 p3555 N84-32513
GARNER, H. D.
Magnetic heading reference
[NASA-CASE-LAR-12638-1] 05 p0629 N84-14132
Heads up display
[NASA-CASE-LAR-12630-1] 18 p2795 N84-27733
Volumetric fuel quantity gauge
[NASA-CASE-LAR-13147-1] 22 p3598 N84-32787
GARNER, H. R.
Buildup and sustainment of 10(13) and cm(-3) plasma by ICRF in RFC-XX
[IPPJ-653] 10 p1580 N84-20356
GARNER, J.
Interactive Signal and Pattern Analysis and Recognition Systems (ISPARS). Users' guide
[AD-A141421] 19 p3075 N84-29514
Program descriptions for Interactive Signal and Pattern Analysis and Recognition System (ISPARS)
[AD-A141575] 19 p3077 N84-29522
GARNER, J. H. B.
Air pollution effects on terrestrial ecosystems
[PB84-128313] 08 p1184 N84-17712
GARNER, J. M.
Evaluation of 3-D graphics software: A case study
12 p1875 N84-22222
GARNER, J. P.
The effect of interior motion on seasonal thermocline evolution
[AD-A138270] 13 p2018 N84-23088
GARO, A.
Formation and destruction of organic pollutants in thermal systems and flames 15 p2291 N84-24752
GARON, A.
Generation of surface-fitted coordinate grids
12 p1871 N84-22194
GAROUTTE, K. F.
Multicell LiSOCl sub 2 reserve battery
[DE84-012812] 21 p3395 N84-31542
Reserve Li/SOCl2 battery safety testing
23 p3736 N84-33678
GAROV, V.
Weather modification technology shown at all-union conference 18 p2855 N84-28133
GARRABRANT, G.
A real-time air dispersion modeling system
[AD-A141405] 19 p3052 N84-29368
GARRARD, W. L.
Eigenspace design techniques for active flutter suppression 11 p1617 N84-20581
GARRELICK, J. M.
Analytical model of the structureborne interior noise induced by a propeller wake
[NASA-CR-172381] 21 p3490 N84-32119
GARRELTS, R.
Acoustical measurements of DOE/NASA MOD-0 wind turbine at Plum Brook Station, Ohio
[DE83-011971] 02 p0242 N84-11584
GARREN, A. A.
A 6.5 Tesla SSC lattice example
[DE84-010719] 20 p3285 N84-30858
GARRETT, B. C.
Prediction of thermal rate constants for combustion reaction
[AD-A140736] 17 p2619 N84-26760
GARRETT, D. B.
Low radio frequency extragalactic variable sources
23 p3845 N84-34390
GARRETT, G. G.
Biaxial fatigue, a review of the literature
[FRP-82/17] 04 p0498 N84-13266
GARRETT, H.
A dc to dc converter
[NASA-CASE-MFS-25430-1] 07 p0995 N84-16453
GARRETT, H. B.
Design guidelines for assessing and controlling spacecraft charging effects
[NASA-TP-2361] 23 p3700 N84-33452
GARRETT, L. B.
Mathematical synthesization of complex structures
12 p1876 N84-22224
GARRETT, M. F.
Linguistics 22 p3684 N84-33359
GARRETT, R. A.
Effect of defects on aircraft composite structures
01 p0035 N84-10221
GARRETT, W. D.
The modification of the modulation transfer function by sea slicks measured by L-band radar
23 p3780 N84-33971
GARRETT, W. R.
Theory of 4-wave mixing for VUV generation
[DE84-011663] 21 p3410 N84-31630
GARRIGA, R. D.
Analysis of metals in atmospheric particules for spectrophotometry of atomic absorption
18 p2877 N84-28269
GARRIQUES, H. J.
Effects of long-term low-level radiofrequency radiation exposure on rats. Volume 5: Evaluation of the immune system's response
[AD-A138535] 14 p2184 N84-24087
GARRIS, C. A.
Research on nonsteady flow induction
[AD-A133894] 05 p0680 N84-14468
Energetics of vortex ring formation
[AD-A138795] 13 p1927 N84-22539
GARRISON, J. C.
High frequency acoustic instabilities in heated fluids
[DE84-005114] 10 p1575 N84-20324
GARRISON, P. W.
Cost evaluation of space station propulsion system options 20 p3139 N84-29932
An integrated space station propulsion system
20 p3139 N84-29933
GARRITY, J. O.
Initial experimental results from a laboratory size beam plasma discharge device 05 p0638 N84-14198
GARSKE, J. D.
Design of a safety monitor system for high explosives machining
[DE84-010101] 20 p3168 N84-30113
GARSTANG, M.
Wind energy assessment for western Maryland
[PB84-184613] 20 p3237 N84-30553
GARTLING, D. K.
SAGUARO: A finite-element computer program for partially saturated porous flow problems
[DE83-015803] 02 p0219 N84-11438
Numerical simulation of plastic fluids
[DE83-007911] 03 p0372 N84-12424
Finite-element analysis of an epoxy-curing process
[DE84-000452] 04 p0507 N84-13323
Construction and verification of a finite-element method for nonisothermal flows in porous media
[DE83-017158] 04 p0536 N84-13522
Quality Assurance (QA) procedures for computer software in department 1510
[DE84-012131] 20 p3273 N84-30778
GARVER, T.
Human strength capabilities for the operation of parachute ripcords and riser releases
[AD-A138328] 12 p1868 N84-22174
GARVIN, J. B.
Venus: Global radar properties in a geological context
11 p1754 N84-21453
Venus: The nature of the surface from Venera panoramas 13 p2077 N84-23459
Venus: Global distribution of Pioneer-Venus radar roughness and reflectivity and global correlation of altimetry, roughness and reflectivity observations
13 p2077 N84-23461
GARVINE, R. W.
Propagating long waves on oceanic density fronts: An analytic model
[AD-A141915] 20 p3250 N84-30628
GARWIN, E. L.
Applications of vacuum technology to novel accelerator problems
[DE83-012710] 01 p0143 N84-10942
Surface properties of metal-nitride and metal-carbide films deposited on Nb for RF superconductivity
[DE84-001491] 04 p0614 N84-14055
GARWOOD, R. W., JR.
A determination of the constants for a second-order closure turbulence model from geophysical data
[AD-A134826] 08 p1195 N84-17795
GARY, B. L.
Remote measurements of ozone, water vapor and liquid water content, and vertical profiles of temperature in the lower troposphere
[NASA-CR-173206] 07 p1033 N84-16704
System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] 24 p3855 N84-34443
GARY, D. E.
Radio emission from solar and stellar coronae
02 p0308 N84-12023
GARY, G. A.
Characteristics of the MSFC, PDS microdensitometer
18 p2840 N84-28026
GARY, J. P.
CYBER 200 Applications Seminar
[NASA-CP-2295] 10 p1558 N84-20208
GARY, S. P.
Microinstabilities in the high latitude F region: A brief review
[DE84-001709] 06 p0879 N84-15719
Investigation of laminar shocks
[DE84-010074] 20 p3242 N84-30582
GARZON, R. D.
Development of a solid-state circuit breaker concept
[DE84-009110] 15 p2414 N84-25493
GASH, J. H. C.
Daily variations of temperature and humidity within and above Amazonian forest
[INPE-3196-PRE/560] 21 p3447 N84-31869
Observations of radiation exchange above and below Amazonian forest
[INPE-3194-PRE/558] 21 p3447 N84-31870

GASKELL, C. M.
Spectrophotometry of 2 complete samples of flat radio spectrum quasars
[NASA-CR-175343] 07 p1088 N84-17077
GASKILL, D. K.
Phase transformation study of Cu2S
[AD-A135587] 09 p1279 N84-18352
TDPAC (Time Differential Perturbed Angular Correlations) study of liquid and amorphous se sub (1-x)Te sub x alloys
[AD-A135588] 09 p1279 N84-18353
GASPAROTTO, O. C.
The initial orientation of homing pigeons on the magnetic equator, with and without Sun compass
[INPE-3104-PRE/503] 16 p2534 N84-26271
GASPARYAN, Y. M.
Simulator-probe for diagnostic testing of short-wave radio channels 22 p3567 N84-32595
GASQUI, J.
Infinitesmal deformation of locally symmetrical Riemann spaces. 2: Blaschke's infinitesimal conjecture for complex projective space 22 p3636 N84-33049
GASSEL, S. S.
Development of a 3-d microscale topography system, phase 1
[AD-A137871] 11 p1633 N84-20677
GASSER, M. G.
Refrigeration for Cryogenic Sensors
[NASA-CP-2267] 06 p0818 N84-15327
GASTELLU-ETCHEGORRY, J. P.
Automatic analysis of bitemporal LANDSAT data: An application to the study of the evolution of vegetation-covered areas in a tropical region 23 p3768 N84-33887
GASTEV, S. V.
Polarization of paraexciton luminescence in Cu2O crystals in magnetic field 20 p3287 N84-30870
GASTON, S. J.
RCA SATCOM battery in orbit performance update and accelerated life test results 23 p3738 N84-33691
GAT, N.
Three-color pyrometer for burning particle temperature measurement 13 p1943 N84-22635
Preliminary design of two Space Shuttle fluid physics experiments
[NASA-CR-174649] 14 p2114 N84-23667
GATES, R. L.
Application and enhancements of MOVIE.BYU 12 p1871 N84-22195
The Solid Model Geometry Generator (SMGG) 12 p1872 N84-22199
Geometric modeling of large space antenna deployment 12 p1876 N84-22225
Computer generated animation and movie production at LARC: A case study
[NASA-CR-172375] 18 p2917 N84-28494
Current and future graphics requirements for LaRC and proposed future graphics system
[NASA-TM-85726] 18 p2917 N84-28495
GATES, R. S.
Friction and wear characteristics of molecular compound classes from lubricating base oils. Part 1: Separation and chemical characterization
[PB84-167741] 18 p2820 N84-27904
GATEWOOD, J. D.
Applications programs to facilitate use of a DBMS to store and retrieve graphics displays (INGRED 2)
[AD-A138059] 18 p2945 N84-28672
GATHMAN, S. G.
Optical properties of the marine aerosol as predicted by a BASIC version of the Navy aerosol model
[AD-A132411] 04 p0604 N84-13986
The effects of meteorology on marine aerosol and optical and in propagation 15 p2323 N84-24950
GATLEY, I.
The behaviour of the 3.28 micron dust feature in NGC 2024 16 p2571 N84-26498
Origins of the 3.28 micron dust emission feature 16 p2571 N84-26500
The behaviour of the 3.28 micron dust feature in NGC 2024 18 p2949 N84-28696
Origins of the 3.28 micron dust emission feature 18 p2949 N84-28698
GATLING, W. S.
Cohesion in the US military
[AD-A140828] 17 p2747 N84-27439
GATOS, H. C.
Crystal growth of device quality GaAs in space
[NASA-CR-173148] 07 p1079 N84-17013
Crystal growth of device quality GaAs in space
[NASA-CR-173749] 18 p2935 N84-28613
Defect interactions in GaAs single crystals 19 p3046 N84-29323
GATSKI, T. B.
Embedded cavity drag in steady and unsteady flows
[NASA-CR-172275] 04 p0531 N84-13493
The disturbance flow field produced by an evolving vortex
[NASA-TP-2245] 04 p0532 N84-13500
A numerical study of the 2- and 3-dimensional unsteady Navier-Stokes equations in velocity-vorticity variables using compact difference schemes
[NASA-CR-172353] 17 p2667 N84-27004
GATTI, E.
The problem of tracking charged particles in the cores of high energy jets in a high rate environment 06 p0911 N84-15916
The concept of a solid state direct chamber 06 p0912 N84-15924
Semiconductor drift chamber: An application of a novel charge transport scheme
[DE84-002875] 07 p1082 N84-17038
GATTI, G. M.
Ultrasonic techniques for the inspection of nuclear components
[BLL-RISLEY-TR-4905-(9091.9F)] 18 p2850 N84-28098
GATTINGER, R. L.
Project Waterhole III 05 p0640 N84-14210
Sequential barium releases to study tangential versus rotational discontinuities in auroral arcs 05 p0640 N84-14215
GATTIS, T. H.
Automated acceptance test procedures for wideband microwave synthesized signal generator testing
[AD-A134923] 08 p1162 N84-17563
GAU, J.
Design and characterization of Mn-Al-C alloys for permanent magnet applications
[DE84-004881] 10 p1461 N84-19542
GAU, J. S.
Continuous annealing of a Fe/0.1C/0.45Si/0.1Mo dual-phase steel
[DE83-015984] 01 p0047 N84-10300
GAUDRY, G. I.
An extension of deLeeuw's theorem to the N-dimensional rotation group 22 p3636 N84-33046
GAUGGEL, R.
Missile system: Simulation and validation 12 p1764 N84-21502
GAUGH, C. E.
Development and fabrication of a high current, fast recovery power diode
[NASA-CR-168196] 04 p0524 N84-13443
GAUGHAN, A. J.
Investigation of the dynamic properties of an elastomer bush
[BU-283] 15 p2255 N84-24543
GAUL, H.
Performance tests of the Solar Steam, Incorporated, 9-m deep-dish solar concentrating collector
[DE84-000079] 20 p3235 N84-30535
GAUNAURD, G. C.
Radar resonance reflection from sets of plane dielectric layers
[AD-A128680] 01 p0062 N84-10406
Effect of pressure on the static and dynamic acoustic properties of porous rubber
[AD-A138744] 13 p1963 N84-22756
GAUNTNER, J. W.
Contingency power concepts for helicopter turboshaft engine
[NASA-TM-83679] 14 p2109 N84-23648
GAUR, M.
On the breakdown of acceleration waves in radiative magneto-fluids 15 p2402 N84-25415
GAURI, K. B.
A study of conference publication records in OCLC: Some implications for the formulation and application of cataloging rules 16 p2566 N84-26464
GAUSE, L. W.
Low velocity, transverse normal impact of a clamped plate 15 p2310 N84-24860
GAUSMAN, H. W.
Increase of cold tolerance in cotton plant (Gossypium hirsutum L.) by mepiquat chloride
[E84-10088] 10 p1521 N84-19959
Reflectance measurements of cotton leaf senescence altered by mepiquat chloride
[E84-10089] 10 p1521 N84-19960
GAUSTER, W. B.
Magnetic fusion energy plasma interactive and high heat flux components. Volume 1: Technical assessment of the critical issues and problem areas in the plasma materials interaction field
[DE84-011527] 20 p3302 N84-30969
GAUTHIER, J.
The analysis of records of parameters: An indispensable tool in oversight and in operations control 06 p0775 N84-15082
GAUTHIER, J. F.
Integration of LANDSAT land cover data into the Saginaw River basin geographic information system for hydrologic modeling
[AD-A140185] 16 p2510 N84-26106
GAUTHIER, M. D.
Comparative testing of polymer solutions. Part 1: Preliminary evaluation of a rheometrics fluids rheometer
[AD-A130888] 01 p0050 N84-10322
GAUTHIER, M. K.
A comparison of radiation damage in liner ICs from cobalt-60 gamma rays and 2.2-MeV electrons
[NASA-CR-173474] 12 p1901 N84-22380
GAUTIER, M. A.
Manual of analytical methods for radiobioassay
[DE84-003978] 08 p1126 N84-17318
GAVALER, J. R.
Thin film technology of high-critical-temperature superconducting electronics
[AD-A136722] 10 p1589 N84-20411
Superconducting electronic film structures
[AD-A141113] 19 p3110 N84-29760
GAVER, D. P.
Data analysis and modeling of arctic sea ice subsurface roughness
[AD-A133349] 07 p1041 N84-16750
The normal approximation and queue control for response times in a processor-shared computer system model
[AD-A139587] 14 p2210 N84-24263
Low-level stratus prediction using binary statistical regression: A report using Moffett Field data
[AD-A140468] 16 p2551 N84-26370
A retrievable recipe for inverse t
[AD-A142557] 20 p3281 N84-30829
GAVIN, L.
Signal detection for same-shape families of non-homogeneous Poisson processes
[AD-A135032] 08 p1217 N84-17942
GAVRILIN, I. V.
Predicting the base phase in the crystallization of eutectic alloys
[BLL-M-35347-(5828.4)] 04 p0497 N84-13262
Influence of direct current on temperature gradient in directionally solidifying ingot of alloy YuNDK35T5
[BLL-M-35684-(5828.4)] 22 p3553 N84-32495
GAVRILKOV, A. G.
Use of electromagnetic field in patients following a disruption of cerebral circulation 07 p1044 N84-16768
GAVRILOV, D. N.
Utilizing light focusing by gas discharge medium for stabilization of emission power of He-Ne laser at wavelength of 6401 angstroms 13 p1969 N84-22779
GAWRON, V. J.
A computer simulation to predict target identification latencies
[AD-P003272] 18 p2907 N84-28437
Eye accommodation, personality, and autonomic balance
[AD-A141499] 19 p3065 N84-29446
GAY, C. H., JR.
Tip cap for a rotor blade
[NASA-CASE-LEW-13654-1] 13 p1931 N84-22560
GAY, D.
Designer, scientist on projected developments in aviation 18 p2784 N84-27669
GAY, E.
Ragone characteristics of aqueous mobile batteries and their application in projecting ranges of electric vehicles
[DE83-014701] 03 p0404 N84-12642
GAY, E. C.
Lithium/iron sulfide batteries for electric-vehicle propulsion and other applications
[DE84-004193] 09 p1310 N84-18565
Testing and evaluation of EV-1300 lead-acid modules for the hybrid vehicle application
[DE84-006718] 14 p2249 N84-24510
GAY, M. C.
Evaluation of a ground transient electromagnetic remote sensing method for the deep detection and monitoring of salt water interfaces
[PB83-253351] 05 p0698 N84-14580
GAYBULLAYEV, S.
High-speed thyristors on weakly doped GaAs 22 p3568 N84-32600
GAYDIDEY, Y. B.
Nature of polarized vibronic sidebands of biexciton absorption in Alpha-oxygen 20 p3289 N84-30884
GAYDUKOV, Y. P.
Electromagnetic excitation of sound in metals 21 p3484 N84-32082

GAYLER, J. E.
The use of thematic mapper data for land cover discrimination: Preliminary results from the UK SATMaP programme
[E84-10038] 04 p0551 N84-13631
The use of Thematic Mapper data for land cover discrimination: Preliminary results from the UK Satmap programme 20 p3216 N84-30428
GAYLIT, T. A.
Spectrum of phase fluctuations during probing of ionosphere 18 p2822 N84-27916
GAYLORD, D. R.
Recent eolian activity and paleoclimate fluctuations in the Ferris Lost Soldier Area, South-Central Wyoming 21 p3441 N84-31830
GAYLORD, T. K.
Holographic data storage crystals for LDEF (A0044) 15 p2277 N84-24677
GAYNONOV, A. G.
Changes in relative instantaneous spreading rates in the Indian Ocean 18 p2858 N84-28149
GAYNOR, C. A.
An online directory of databases for material properties
[DE84-013210] 22 p3643 N84-33099
GAYNOR, J. J.
Pea amyloplast DNA is qualitatively similar to pea chloroplast DNA 09 p1359 N84-18877
GAYNUTDINOV, R. G.
Processing the results of fatigue testing of structural materials damaged by corrosion 24 p3873 N84-34541
GAZENBO, O. G.
USSR report: Space Biology and Aerospace Medicine, volume 17, no. 5, September - October 1983
[JPRS-84655] 02 p0259 N84-11693
GAZENKO, O. G.
USSR report: Space Biology and Aerospace Medicine, Vol. 17, No. 6, November - December 1983 94 p
[JPRS-USB-84-001] 07 p1044 N84-16769
Contributions of space medicine to medical research 14 p2251 N84-24517
USSR report: Space Biology and Aerospace Medicine, volume 18, no. 2, March - April 1984
[JPRS-USB-84-004] 15 p2374 N84-25247
Main results of medical studies on Salyut-6–Soyuz program 15 p2375 N84-25249
Space biology and medicine: Yesterday and today 19 p2976 N84-28865
USSR report: Space Biology and Aerospace Medicine, vol. 18, no. 3, May - June 1984
[JPRS-USB-84-005] 20 p3252 N84-30642
GAZIS, P. R.
The radial evolution of the solar wind, 1-10 AU 03 p0472 N84-13106
GDALEVICH, G. L.
Effects of small-scale plasma disturbance on the IKB-1300 spacecraft potential
[PR-839] 08 p1109 N84-17208
GE, M.
Journal of engineering thermophysics (selected articles)
[AD-A139070] 15 p2415 N84-25501
GEARHART, R. A.
High energy electromagnetic shower position measurement by a fine grained scintillation hodoscope 06 p0912 N84-15928
GEBALLE, T. H.
Film synthesis and new superconductors
[AD-A135102] 08 p1234 N84-18068
GEBALLE, T. R.
Spectroscopy of the 4.6 - 4.7 micron interstellar absorption features 16 p2570 N84-26492
Spectroscopy of the 3.3 and 3.4 micron dust emission features 16 p2570 N84-26496
Spectroscopy of the 4.6 - 4.7 micron interstellar absorption features 18 p2948 N84-28690
Spectroscopy of the 3.3 and 3.4 micron dust emission features 18 p2948 N84-28694
GEBALLE, T. T.
The plumes of IO: A detection of solid sulfur dioxide particles
[NASA-CR-175414] 12 p1922 N84-22523
GEBHARDT, D. L.
Validation of the military entrance physical strength capacity test
[AD-A142169] 19 p3066 N84-29451
GEBHARDT, H. E.
Enhanced safety by means of clear information on hazards and operational disturbances by a plain language communication device
[BMFT-FB-HA-84-010] 18 p2830 N84-27971
GEBHARDT, P.
Applications of analog Change Coupled Devices (CCD's)
[BMFT-FB-T-83-141] 03 p0456 N84-13002
GEDDE-DAHL, D.
The effect of physical stress on gastric secretion and pancreatic polypeptide levels in man 10 p1546 N84-20138
GEDDES, J.
The 30-GHz monolithic receive module
[NASA-CR-168326] 11 p1642 N84-20737
GEDEON, L.
NASCAP simulations of spacecraft charging of the SCATHA satellite 08 p1117 N84-17268
GEDNEY, C. J.
The response of a laminar boundary layer to sound and wall vibration
[AD-A132843] 05 p0681 N84-14474
Measurements of the low wavenumber wall pressure spectral density during transition on a flat plate
[AD-A140753] 17 p2668 N84-27013
GEDWILL, M. A.
Coating with overlay metallic-cermet alloy systems
[NASA-CASE-LEW-13639-2] 18 p2813 N84-27855
Overlay metallic-cermet alloy coating systems
[NASA-CASE-LEW-13639-1] 23 p3716 N84-33555
GEDYMIN, M. Y.
Effects of long-term exposure to low positive temperatures on cold-induced vasodilation 18 p2896 N84-28371
GEE, A. W. J. D.
Study of the lubrication mechanism of thin film lubricated concentrated steel contacts. The influence of pre-treatment of the steel on the load carrying capacity
[AD-A135067] 08 p1166 N84-17593
GEE, G. W.
Measurement of unsaturated flow below the root zone at an arid site
[DE84-006575] 15 p2359 N84-25158
GEE, H. K.
Stream-water storage in the ocean using an impermeable membrane
[PB83-248369] 04 p0517 N84-13394
GEE, J. M.
Plasma-initiated laser deposition of polycrystalline and monocrystalline silicon films
[DE84-005527] 13 p1996 N84-22953
Laser-induced etching of insulators using a dc glow discharge in silane
[DE84-007570] 14 p2151 N84-23888
GEE, M. G.
Fundamental approach to design and prediction of performance of forming tools 09 p1294 N84-18453
GEE, M. T.
LINAC facility at Armed Forces Radiobiology Research Institute
[AD-A143970] 23 p3822 N84-34239
GEE, N. B.
Bidirectional fiber optic cable adapter
[AD-A133371] 06 p0824 N84-15370
GEE, R. C.
Low-temperature IPH parabolic troughs: Design variations and cost-reduction potential
[DE84-000024] 12 p1843 N84-22016
GEERTS, R. H. M. E.
Hot spot reflectance measurements applied to green biomass estimation and crop growth monitoring
[NLR-MP-83037-U] 17 p2721 N84-27323
GEFWERT, C.
Toward a constructive physics
[DE83-016644] 04 p0594 N84-13919
Program for a constructive physics
[DE84-005425] 12 p1916 N84-22486
GEHRELS, N.
Development of a segmented n-type germanium detector, and its application to astronomical gamma-ray spectroscopy
[NASA-TM-85435] 03 p0461 N84-13039
GEHRZ, R. D.
Infrared measurements of AFGL (Air Force Geophysics Laboratory) sources
[AD-A133553] 06 p0938 N84-16098
GEIDEL, H.
Possibilities of using ICL: Distributed array processor 16 p2549 N84-26357
GEIER, R. J.
Great Lakes coastal geology: Stratigraphy and bluff recession along the Lake Erie coast, New York
[PB84-128933] 10 p1538 N84-20075
GEIER, W.
Experimental investigation of delaminations in carbon fibre composite 01 p0033 N84-10209
Experimental investigation of delaminations in carbon fiber composite
[MBB-FE-214/S/PUB/107] 16 p2562 N84-26434
GEIGER, G.
Physiology 22 p3684 N84-33363
GEIGER, J.
Preparation of thin amorphous silicon films for thin film solar cells
[BMFT-FB-T-84-018] 16 p2518 N84-26166
GEIGER, P.
Solving the Poisson equation on the FPS-164 (Floating Point System-164)
[AD-A139307] 14 p2211 N84-24278
GEIGER, W.
Identification of problem areas 06 p0836 N84-15440
Flat cloud modeling 06 p0836 N84-15442
GEIS, M. W.
High-quality silicon films prepared by zone-melting recrystallization 18 p2939 N84-28638
GEISELMAN, R. E.
Mental representation of circuit diagrams: Individual differences in procedural knowledge
[AD-A136876] 10 p1550 N84-20159
GEISIK, C.
Interfacing CAMAC to a high-speed multiprocessor bit slice data-acquisition system
[DE84-009986] 20 p3273 N84-30780
GEISLER, D. P.
Chemical abundances in old open and metal-rich globular clusters in the galaxy 16 p2577 N84-26539
GEISLER, M. J.
Development and fabrication of an augmented power transistor
[NASA-CR-168262] 02 p0212 N84-11388
GEISLER, R.
Economic use of CBN grinding tools in the production of jet turbine components
[CSIR-TRANS-1736] 22 p3563 N84-32561
GEISS, J.
Interpretation of 3He variations in the solar wind
[NASA-TM-85049] 03 p0486 N84-13065
The relative abundance of 3He(++) in the solar wind 03 p0473 N84-13111
The ISPM solar-wind ion composition spectrometer 09 p1261 N84-18232
Interstellar-gas experiment (A0038) 15 p2275 N84-24660
GEISSLER, W.
Unsteady laminar boundary-layer calculations on oscillating configurations including backflow. Part 2: Airfoil in high-amplitude pitching motion. Dynamic stall
[NASA-TM-84319-PT-2] 15 p2254 N84-24537
GEIST, G. A.
PCMSOL-1: A computer simulation code for a direct gain passive solar structure. Part 2: PCMSOL-1 users guide
[ORNL/CSD-127/P-2] 23 p3790 N84-34040
GELB, A.
COCHISE observations of Argon Rydberg emission from 2 to 16 micrometers
[AD-A137916] 11 p1732 N84-21296
GELBARD, E. M.
Numerical treatment of pipe boundary conditions in two-phase flow
[DE84-006553] 20 p3185 N84-30236
GELBWACHS, J. A.
Laser-induced fluorescence spectroscopy for improved chemical analysis
[DE84-000629] 04 p0494 N84-13243
GELDER, T. F.
Design and performance of a fixed, nonaccelerating, guide vane cascade that operates over an inlet flow angle range of 60 deg
[NASA-TM-83519] 05 p0626 N84-14120
Redesign and cascade tests of a supercritical controlled diffusion stator blade-section
[NASA-TM-83635] 13 p1926 N84-22533
GELFAND, A. E.
Switching net models: Rudimentary behavior, representations and applications
[AD-A140047] 15 p2398 N84-25391
GELFAND, B. Y.
Interaction of air shock waves and porous shield 17 p2645 N84-26922
GELFAND, J.
Inversion of spectral lineshapes to yield collisional rate constants
[AD-A142661] 20 p3149 N84-29994
Combustion chemistry of vibrationally excited oxygen
[AD-A143791] 23 p3714 N84-33540
GELINAS, R.
Radially resolved simulation of a high-gain free electron laser amplifier
[DE84-003751] 08 p1165 N84-17585
GELINAS, R. J.
Moving finite elements in 2-D
[AD-A131279] 02 p0281 N84-11842
Moving finite elements in 2-D
[AD-A132700] 05 p0736 N84-14831

Moving finite element research for shock hydrodynamics, continuum mechanics and combustion
[AD-P002970] 14 p2201 N84-24206
Moving finite elements in 2-D. Technical report: Year 3
[DE84-006551] 20 p3262 N84-30840
GELL-MANN, M.
Developing new materials at elevated temperatures and pressures
[AD-A141235] 18 p2940 N84-28650
GELL, D. A.
Optimum aerodynamic maneuvers of orbiting vehicles 05 p0629 N84-14133
GELLER, B. D.
Phased-array-fed antenna configuration study. Volume 1: Technology assessment
[NASA-CR-168231] 07 p0991 N84-16423
Phased-array-fed antenna configuration study, volume 2
[NASA-CR-168232] 07 p0991 N84-16424
GELLER, M. A.
Techniques for studying gravity waves and turbulence 17 p2688 N84-27115
Research status and recommendations from the Alaska workshop on gravity waves and turbulence in the middle atmosphere
[AD-A140939] 18 p2879 N84-28281
GELLER, M. J.
Observational and theoretical studies of rich clusters with multiple subcondensations
[NASA-CR-173618] 16 p2575 N84-26528
GELLER, S. B.
Computer science and technology: Care and handling of computer magnetic storage media
[PB83-237271] 02 p0276 N84-11809
GELLES, D. S.
Fracture behavior of unirradiated HT-9 and modified 9Cr-1Mo welds
[DE83-016021] 01 p0098 N84-10636
Low activation approaches to materials development
[DE83-015972] 02 p0196 N84-11273
Miniature charpy-impact test results for the irradiated ferritic alloys HT-9 and modified 9Cr-1Mo
[DE83-016935] 03 p0354 N84-12300
GELLIN, S.
Slave finite elements: The temporal element approach to nonlinear analysis 21 p3420 N84-31689
GELLRICH, N.
Experimental and theoretical studies of electron beam lithography for the fabrication of semiconductor circuits with submicron dimensions: Water distortion, comparison of results
[BMFT-FB-T-83-088] 02 p0216 N84-11414
GELMAN, H.
RF design and performance of a multibeam, multiband antenna
[AD-P003512] 21 p3385 N84-31480
GELMUKHANOV, F. K.
Excitation of sound by light 20 p3285 N84-30863
GELTSEL, M. Y.
Heart rhythm changes in response to sensorimotor load of varying complexity 21 p3452 N84-31908
GELYETOV, V. P.
Transient processes in an inductor system consisting of a flat coil and a multilayer conducting medium
[AD-A139053] 13 p2039 N84-23232
GEMAN, D.
Bayes smoothing algorithms for segmentation of images modelled by Markov random fields
[AD-A133966] 05 p0734 N84-14817
Application of the Gibbs distribution to image segmentation
[AD-A133406] 06 p0901 N84-15850
GEMAN, S.
Nonparametric estimation by the method of sieves
[AD-A131394] 02 p0284 N84-11863
GEMAS, G. L.
Aircraft avionic system maintenance cannot duplicate and Retest-OK analytical source analysis
[AD-A134449] 07 p0945 N84-16129
GEMMELL, D. S.
Interactions of fast atomic and molecular ions with matter
[DE84-006555] 15 p2405 N84-25438
GENAUZEAU, F.
Chirp signal generator feasibility study
[TH-CSF-DASM-83/001/106] 07 p0999 N84-16482
GENCO, L. V.
The effect of haze on an operator's visual field and his target detection performance
[AD-A138330] 13 p2020 N84-23099
Optical and human performance evaluation of HUD (Head-Up Display) systems design
[AD-A140601] 17 p2586 N84-26587
Optical interactions of aircraft windscreens and HUDs (Head-Up Displays) producing diplopia
[AD-P003159] 17 p2588 N84-26590
Visual effects of F-16 Canopy/HUD (Head-Up Display) integration
[AD-P003221] 17 p2595 N84-26634
Accommodative amplitude and speed measuring instrument
[AD-D011032] 19 p3071 N84-29484
Horizontal diplopia thresholds for head-up displays
[AD-A141965] 20 p3129 N84-29872
Portable visual function tester
[AD-D011105] 22 p3599 N84-32795
Method of measuring optical properties of a transparency
[AD-D011117] 22 p3658 N84-33188
Method for dynamically recording distortion in a transparency
[AD-D011209] 24 p3902 N84-34707
GENDRON, B.
Implementation of an optimal multicommodity network flow algorithm based on gradient projection and a path flow formulation
[AD-A138935] 13 p2029 N84-23154
GENDRON, L. J.
Study of the combined use of data from satellite thermal infrared and microwave sensors for soil moisture detection
[PB83-252734] 05 p0698 N84-14582
GENDRON, R. F.
A comparison of two air defense command and control models
[AD-P002876] 13 p1977 N84-22837
GENENS, L.
Design of the near shore seawater systems for an OTEC expanded test facility
[DE84-004043] 11 p1674 N84-20926
GENERAZIO, E. R.
The role of the reflection coefficient in precision measurement of ultrasonic attenuation
[NASA-TM-83788] 22 p3606 N84-32849
GENIN, A. M.
Main results of medical studies on Salyut-6–Soyuz program 15 p2375 N84-25249
Reliability and efficiency of Kubicek rheographic method for monitoring cardiac output and stroke volume 20 p3253 N84-30644
GENKINA, R. I.
Assurance of unity of tests of semiconductor products 17 p2637 N84-26868
GENN, S.
Flow behavior in the Wright Brothers Facility
[WBWT-TR-1187] 08 p1237 N84-18088
GENNETT, T.
The prediction of electrochemical reactivities from contemporary theory: Some comparisons with experiment
[AD-A142406] 20 p3147 N84-29985
The reliability of standard rate constants for rapid electrochemical reactions
[AD-A142445] 20 p3148 N84-29989
GENONI, T. C.
Experimental investigation of certain beam transport issues in a pulsed transmission line linear accelerator
[DE84-011191] 22 p3654 N84-33164
GENOUX, G.
Estimated analysis of the aeroelastic behavior of tail rotors 02 p0172 N84-11129
The SARIB vibration absorber
[SNIAS-832-210-104] 16 p2502 N84-26058
GENSER, S. G.
Complex demodulation: A technique for assessing periodic components in sequentially sampled data
[AD-P003845] 24 p3939 N84-34933
GENT, A. N.
Failure processes in elastomers at or near a rigid spherical inclusion
[AD-A132060] 03 p0356 N84-12314
Effect of interfacial bonding on the strength of adhesion of elastomers. 3: Interlinking by molecular entanglements
[AD-A138760] 13 p1963 N84-22757
Micromechanics of fracture in elastomers
[AD-A138783] 13 p1964 N84-22758
Science of adhesion
[PB84-176734] 16 p2473 N84-25852
The role of chemical bonding in adhesion
[AD-A140937] 18 p2818 N84-27891
GENTILE, A. L.
New materials for infrared transmitting electrooptic filters
[AD-A139272] 14 p2224 N84-24349
Development of new electro-optic and acousto-optic materials
[AD-A139946] 15 p2408 N84-25453
GENTILE, F.
Target track and stabilization for manportable direct fire missiles
[AD-A136219] 09 p1271 N84-18306
GENTRY, C. L., JR.
Reynolds number effects on pressure loss and turbulence characteristics of four tube-bundle heat exchangers
[NASA-TM-85807] 16 p2439 N84-25645
GENTRY, L. R.
Remotely driven model control surfaces for efficient wind-tunnel operations 01 p0022 N84-10139
GENTRY, L., JR.
Reynolds number effects on pressure loss and turbulence characteristics of four tube-bundle heat exchangers
[NASA-TM-85807] 16 p2439 N84-25645
An investigation of the existence of a surface water layer on aircraft radomes during simulated flight in heavy precipitation
[NASA-TM-85813] 19 p3003 N84-29035
GENTRY, R. A.
Use of fiber optics and laser-induced fluorescence for remote measurements of UF6 in strong rotation
[DE83-014195] 01 p0088 N84-10575
Numerical simulation of the countercurrent flow in a gas centrifuge
[DE83-013323] 02 p0218 N84-11432
GENTRY, R. C.
Forecasting tropical cyclone recurvature with upper tropospheric winds
[NASA-TM-85114] 02 p0253 N84-11659
GENTZSCH, W.
On vector calculation of mechanic flow computer programs 16 p2549 N84-26358
GENZEL, R.
Detection of shocked atomic gas in the Kleinmann-Low nebula
[NASA-TM-85967] 16 p2574 N84-26523
GEOFFROY, C. S.
Hydrogen fluoride formation and metal corrosion in freon-contaminated propellants 20 p3137 N84-29921
GEORGE, A.
Solution of sparse underdetermined systems of linear equations
[DE83-016460] 02 p0283 N84-11853
GEORGE, A. R.
Broadband rotor noise analyses
[NASA-CR-3797] 12 p1899 N84-22365
GEORGE, C.
The structural chemistry of energetic compounds
[AD-A143955] 23 p3822 N84-34237
GEORGE, F. L.
Proceedings of the 18th Annual Conference on Manual Control
[AD-A131256] 01 p0118 N84-10763
GEORGE, J. W.
Langley's views on NEMS 22 p3672 N84-33280
GEORGE, K. A.
Navstar GPS applications to test and training 24 p3850 N84-34418
GEORGE, M.
Optical fiber termination and splicing techniques
[DE84-013919] 22 p3564 N84-32572
GEORGE, M. C.
High Reynolds number cylinder flow studies
[AD-A131116] 02 p0218 N84-11429
GEORGE, N.
Optical systems and statistical optics
[AD-A131297] 02 p0294 N84-11928
GEORGE, R. E.
Application of the small body pressure transducer
[AD-A131733] 03 p0377 N84-12454
Application of the small body pressure transducer
[AD-P002687] 11 p1659 N84-20822
GEORGE, R. L.
Scaling wind characteristics for designing small and large wind turbines
[DE83-014501] 06 p0880 N84-15728
Simulation of winds as seen by a rotating vertical axis wind turbine blade
[DE84-009033] 14 p2180 N84-24056
Rotationally sampled wind characteristics and correlations with MOD-OA wind turbine response
[PNL-5238] 24 p3916 N84-34794
GEORGE, T. F.
Resonance fluorescence of many interacting adatoms at a metal surface
[AD-A129866] 01 p0038 N84-10239
Resonance fluorescence of a two-level atom near a metal surface
[AD-A130277] 01 p0141 N84-10928
Localized magnetization arising from spin-dependent impurity potentials in the Wolff model
[AD-A133652] 05 p0742 N84-14871

Application of the density matrix multipole expansion to stark quantum beats from beam-foil-excited hydrogen atoms
[AD-A133603] 06 p0797 N84-15193
Emission of short-wavelength photons from ion-surface charge exchange
[AD-A133183] 06 p0914 N84-15942
Laser-induced molecular dynamics: Rate processes in the gas phase and at solid surfaces
[AD-A134426] 07 p1072 N84-16962
Resonance fluorescence and photon trapping of two atoms on a metallic surface
[AD-A134512] 07 p1072 N84-16964
Theoretical aspects of laser-induced periodic surface structure formation
[AD-A134875] 08 p1164 N84-17581
Theoretical study of laser-stimulated chemical vapor deposition processes of importance in microelectronics
[AD-A136433] 09 p1321 N84-18631
Laser-induced electron-phonon processes on metal surfaces
[AD-A136435] 09 p1321 N84-18632
Laser-induced surface migration via surface plasmons
[AD-A136436] 09 p1321 N84-18633
Laser-induced neutralization and negative-ion formation in surface scattering
[AD-A135907] 09 p1322 N84-18641
The role of phonons in the excitation and relaxation of adspecies
[AD-A137066] 10 p1455 N84-19504
Resonance fluorescence of a two-level atom near a metal surface. 2: Case of a strong driving field
[AD-A138275] 12 p1914 N84-22469
Negative-ion formation from surface scattering and the Anderson correlation energy U
[AD-A138390] 12 p1914 N84-22473
Conductivity in semiconductors induced by vibrational-to-electronic energy transfer
[AD-A140094] 16 p2553 N84-26380
Theory of laser-induced surface chemistry with applications to microelectronics and heterogeneous catalysis
[AD-A141832] 19 p2989 N84-28938
Formation of electron-hole pairs in a semiconductor by vibrationally-excited molecules
[AD-A143552] 22 p3664 N84-33226
Laser control of chemical reactions
[AD-A144359] 24 p3908 N84-34758

GEORGE, T. P.
Laser-induced bound states at surfaces: Ion neutralization and adsorption
[AD-A130278] 01 p0086 N84-10562

GEORGES, C. B.
Determination of microwave attenuation due to the influence of atmospheric gases using the radiometric technique
[INPE-2850-PRE/391] 23 p3730 N84-33637

GEORGES, J. M.
Nature of the surface and its effect on solid-state interactions 14 p2152 N84-23894

GEORGES, T. M.
Measured ionospheric Doppler spreading of HF ground backscatter
[PB83-220764] 01 p0068 N84-10446
Frequency correlation of HF skywave ground backscatter Doppler spectra
[PB84-204353] 22 p3578 N84-32668
Statistics at HF skywave ground backscatter Doppler spectra
[PB84-204973] 22 p3578 N84-32669

GEPPERT, E. F.
Shaft coupling device
[AD-D011080] 21 p3413 N84-31644

GERACI, A. L.
Remote sensing analysis of oil pollution in Augusta Bay, Sicily 03 p0400 N84-12616

GERARDI, T. G.
Dynamic simulation of structural systems with isolated nonlinear components 10 p1510 N84-19885

GERASIMOV, A. I.
Linear inductive accelerator
[AD-A135547] 08 p1229 N84-18029

GERASIMOV, I. V.
Microprocessor devices for analog signal processing 18 p2824 N84-27928
Microprocessors for analog signal processing 24 p3941 N84-34947

GERBALDI, M.
Interstellar lines in high resolution IUE spectra of run-away B type stars 24 p3973 N84-35160
Ultraviolet fluxes of blue straggler stars 24 p3974 N84-35165

GERBER, N.
Oscillations of a liquid in a rotating cylinder. Part 2: Spin-up
[AD-A129094] 01 p0077 N84-10505
Treatment of the discontinuity in the spin-up problem with impulsive start
[AD-A133682] 16 p2485 N84-25940
Contribution of pressure to the moment during spin-up on a nutating liquid-filled cylinder: Ad hoc model
[AD-A143678] 23 p3747 N84-33752

GERBER, R. A.
Analysis of mechanisms for anode plasma formation in ion diodes
[DE83-017793] 04 p0608 N84-14010

GERDIN, G. A.
TFTR alpha extraction and measurement project
[DE83-018120] 03 p0448 N84-12947

GEREMIA, J.
Cable fire studies using the Ohio State University release rate apparatus 11 p1726 N84-21261

GERGAMINI, E. W.
Trends in data communication by computer networks in space missions
[INPE-3068-PRE/485] 16 p2545 N84-26338

GERGELY, J. S.
An active remote sensing system to map location of underwater oil seeps 23 p3781 N84-33974

GERHARDT-ANDERSON, R.
Microstructure and microanalysis in relation to the grain boundary conductivity effect in doped ceria 11 p1741 N84-21358

GERHART, P. M.
Computational modeling of jet induced mixing of cryogenic propellants in low-G
[NASA-TM-83703] 15 p2331 N84-25000

GERHAUSER, H.
Hydrodynamic theory of convective transport across a dynamically stabilized diffuse boundary layer
[JUEL-1869] 13 p2046 N84-23275

GERHOLD, C. H.
Analytical study of the twin-jet shielding
[NASA-CR-175357] 07 p1069 N84-16943

GERHT, R. V.
High-resistance measuring standards of electrical resistance 18 p2826 N84-27939

GERICH, C.
Scientific program and abstracts
[DE83-017620] 04 p0601 N84-13967

GERICKE, O. R.
Computer-based ultrasonic multiple-frequency pulse-echo test system
[AD-A132227] 04 p0595 N84-13926

GERIG, G.
Structural description of a LANDSAT Thematic Mapper (TM) scene for improved region-based classification 23 p3766 N84-33873

GERIGK, D. C.
A high accuracy temperature measurement on a diagnostic canister for the Nevada test site
[AD-P002678] 11 p1658 N84-20815

GERING, H. K.
The air traffic planning coordinator of the Federal Republic of Germany
[FACHTHEMEN-5] 07 p0945 N84-16130

GERLA, M.
Advanced teleprocessing systems
[AD-A133554] 06 p0825 N84-15377
Advanced teleprocessing systems
[AD-A133555] 06 p0825 N84-15378
Performance evaluation and control of distributed computer communication networks
[AD-A135121] 08 p1215 N84-17928
Advanced teleprocessing systems
[AD-A137944] 11 p1644 N84-20747

GERLACH, A. A.
Performance characteristics of passive coherence estimators
[AD-A133209] 06 p0829 N84-15396

GERLACH, A. M.
Objective analysis and prediction techniques
[AD-A131465] 02 p0256 N84-11675
Objective analysis and prediction techniques, 1983
[AD-A142441] 20 p3245 N84-30599

GERLACH, C. R.
Bellows flow-induced vibrations
[NASA-TM-82556] 13 p1989 N84-22912

GERLACH, J. C.
Facilities for meteorological research at NASA Goddard/Wallops Flight Facility
[NASA-TM-84422] 15 p2371 N84-25223

GERLACH, K.
A computer model for a multiple high PRF pulse Doppler radar
[AD-A142357] 20 p3173 N84-30152

GERLACH, O. H.
Lecture notes on airplane stability and control 1, part 1
[VTH-LR-384-PT-1] 10 p1431 N84-19357
Lecture notes on airplane stability and control 1, part 2
[VTH-LR-384-PT-2] 10 p1432 N84-19358

GERLING, T. W.
The information content of spaceborne SAR ocean image spectra 23 p3771 N84-33905

GERLING, W.
Evaluation of radio navigation systems and their configuration with respect to minimum cost
[DFVLR-FB-83-32] 10 p1426 N84-19329
Reliability assurance using test structures, phase 2
[ESA-CR(P)-1827-VOL-1] 12 p1825 N84-21894
Reliability assurance using test structures, phase 3
[ESA-CR(P)-1827-VOL-2] 12 p1825 N84-21895

GERMAIN, E. F.
Evaluation tests of platinum resistance thermometers for a cryogenic wind tunnel application
[NASA-TM-85803] 14 p2148 N84-23865

GERMAIN, P.
Shock conditions and shock wave structures in a steady flow in a dissipative fluid
[NASA-TM-77381] 07 p1001 N84-16490

GERMAN, A. M.
Using information on tangential target motion in space-time signal processing 21 p3487 N84-32101

GERMAN, E. S., JR.
NASA metrology information system: A NEMS subsystem 22 p3672 N84-33279

GERMAN, R. M.
Reduced grain boundary mobility and the sintering of molybdenum
[AD-A140265] 16 p2469 N84-25823

GERNDT, C.
Optically nonlinear materials for tunable UV-lasers
[BMFT-FB-T-84-133] 23 p3755 N84-33806

GERR, N. L.
Analysis of a delayed delta modulator
[AD-A131208] 02 p0282 N84-11845
Analysis of adaptive differential PCM (Pulse-Code Modulator) of a stationary Gauss-Markov input
[AD-A136518] 09 p1299 N84-18492

GERREN, D. S.
Configuration design studies and wind tunnel tests of an energy efficient transport with a high-aspect-ratio supercritical wing
[NASA-CR-3524] 19 p2955 N84-28727

GERRITSEN, F. A.
A comparison of the Cellular Logic Image Processor (CLIP) 4; Distributed Array Processor (DAP) and Massively Parallel Processor (MPP) processor-array implementations
[NLR-MP-82054-U] 09 p1366 N84-18917
Comparison of processor arrays with pipeline processors for image processing
[NLR-MP-83011-U] 13 p2030 N84-23165
Implementation of cellular-logic operators using 3 x 3 convolution and table look-up hardware
[NLR-MP-83039-U] 17 p2750 N84-27454

GERRY, E. T.
Assessment of the adequacy of US accelerator technology for Department of Energy Missions
[DE84-001632] 04 p0598 N84-13945

GERRY, I.
Interactive communication systems simulation model (ICSSM) extension
[AD-A135704] 09 p1302 N84-18509

GERS, S.
Keeping your fingers crossed won't help 05 p0718 N84-14702

GERSHENZON, M.
Evaluation of gallium nitride for active microwave devices
[AD-A132988] 05 p0754 N84-14947

GERSHFELD, D. A.
Optimum depth of propagation in shallow water
[AD-A132182] 04 p0595 N84-13927

GERSHUNI, G. Z.
Second All-Union Seminar on Hydromechanics and Heat-Mass Transfer in Weightlessness. Abstracts of reports: Table of contents
[NASA-TM-77534] 09 p1312 N84-18576

GERSON, H. I.
Phased-array-fed antenna configuration study. Volume 1: Technology assessment
[NASA-CR-168231] 07 p0991 N84-16423

GERSTEIN, B. C.
High-resolution nuclear magnetic resonance in solids (1975-1982)
[DE83-016406] 02 p0291 N84-11910

GERSTENBERG, B.
Development of a multilayer process based on the down draft principle for the sintering of iron ore
[BMFT-FB-T-83-065] 02 p0197 N84-11282

GERSTENBERG, H.
Photonuclear data index, 1973-1981, supplement 2 to NBS (National Bureau of Standards) special publication 380
[PB83-251363] 05 p 0746 N84-14898
GERSTENMAIER, W. H.
Hot-flow tests of a series of 10-percent-scale turbofan forced mixing nozzels
[NASA-TP-2268] 08 p 1156 N84-17525
GERSTL, S. A.
Multidimensional modeling of atmospheric effects and surface heterogeneities on remote sensing
12 p 1833 N84-21945
GERSTL, S. A. W.
Application of two-dimensional discrete-ordinates methods to multiple scattering of laser radiation
[AD-A133258] 06 p 0849 N84-15539
GERSTMANN, J.
Integrated gas-fired space heating/water heating system with electric air conditioning
[PB84-181999] 20 p 3171 N84-30138
GERTHOFFEROVA, H.
Testing the authenticity of moldavite by electron microscopy
[NASA-TM-77335] 09 p 1343 N84-18773
GERTNER, E. R.
Producible alternative to CdTe for epitaxy (PACE-2) of LWIR HgCdTe
[AD-A138255] 12 p 1914 N84-22468
GERTSBAKH, I. B.
Asymptotic methods in reliability theory: A review
[AD-A130163] 01 p 0092 N84-10600
GERTZ, J. L.
Fundamentals of mode S parity coding
[DOT/FAA/PM-83-6] 11 p 1642 N84-20736
Mode S surveillance meeting
[AD-A138267] 12 p 1768 N84-21531
GERVER, M. J.
Introduction to tandem mirror physics
[DE84-006644] 12 p 1911 N84-22451
GERVIN, J. C.
Comparison of land cover in formation from LANDSAT Multispectral Scanner (MSS) and airborne Thematic Mapper Simulator (TMS) data for hydrologic applications
20 p 3216 N84-30431
GERWIG, W.
Studies on the insulation effect of rubber springs in complex structures in the acoustic frequency range
[BMFT-FB-HA-84-001] 19 p 3037 N84-29264
GERWIN, R.
Portrait of the Max-Planck research organization and its institutes
03 p 0458 N84-13015
Anomalous resistivity at the field null of the FRC: A quasi-linear expression based upon flute-type modes
[DE84-003556] 09 p 1393 N84-19094
GESELL, L.
The influence of ground conductivity on the structure of RF radiation from return strokes
[NASA-TM-86065] 12 p 1860 N84-22117
GESHEV, P. I.
Motion of vortex pair between parallel walls
21 p 3486 N84-32092
GESSING, R.
On optimality OLF control
[OUEL-1493/83] 10 p 1567 N84-20263
On equivalence between optimal stochastic control and open-loop feedback control
10 p 1567 N84-20264
About equivalence between closed-loop and open-loop feedback controls
10 p 1567 N84-20265
GESTAUT, L.
Oxygen electrodes for energy conversion and storage
[DE84-003919] 07 p 0999 N84-16476
GETMANCHUK, Y. I.
Polymerisation of acrolein and its derivatives. 2: Polymerisation of acrolein and alpha-alkyl substituted acrolein in the presence of metallic sodium
[BLL-M-28708-(5828.4)] 01 p 0048 N84-10308
GETTY, D. J.
Display-control compatibility in 3-D displays
[AD-A140640] 17 p 2748 N84-27444
GETTYS, C. F.
Research and theory on predecision processes
[AD-A137962] 12 p 1866 N84-22163
Ability and expertise in act generation
[AD-A137973] 13 p 2022 N84-23110
Problem analysis and definition in act generation
[AD-A137978] 13 p 2022 N84-23111
GETZSCHMANN, A.
System feasibility study on rendezvous and docking in transfer orbit, volume 1
[PV6-13/81-VOL-1] 12 p 1776 N84-21588
System feasibility study on rendezvous and docking in transfer orbit, volume 2
[PRV6-13/82] 12 p 1776 N84-21589
Detailed system studies on rendezvous and docking
[ERNO-RX-015-2/83] 23 p 3697 N84-33427
Rendezvous and docking mission and navigation sensors
[ESA-SP-202] 36 p 3908 N84-34753
GEUENICH, W.
High power bogie for 350 km/h. Design and definition
[MBB-UD-376-OE] 05 p 0687 N84-14518
GEURTS, H. A. M.
A model to calculate hourly temperatures from three regular readings, part 3
[KNMI-165-3] 10 p 1540 N84-20093
GEVARTNER, W. B.
An overview of artificial intelligence and robotics. Volume 1: Artificial intelligence. Part B: Applications
[NASA-TM-85838] 01 p 0128 N84-10834
An overview of artificial intelligence and robotics. Volume 1: Artificial intelligence. Part C: Basic AI topics
[NASA-TM-85839] 05 p 9732 n84-14805
GEVECI, T.
Comment on the energy variation method
[CSIR-TWISK-293] 07 p 1059 N84-16862
On the convergence of Galerkin approximation schemes for second-order hyperbolic equations in energy and negative norms
[CSIR-TWISK-280] 07 p 1059 N84-16867
GEVER, C.
Geothermal potential along the Balcones/Ouachita trend, central Texas: Ongoing assessment and selected case studies
[DE84-010826] 20 p 3241 N84-30578
GEVERS, G.
Analysis of collagen and noncollagenous proteins in bone particles fractionated by gradient density fractionation
23 p 3808 N84-34144
GEVINS, A. S.
Neurocognitive pattern analysis
[AD-A131302] 01 p 0114 N84-10740
Single trial brain electrical patterns of an auditory and visual perceptuomotor task
[AD-A135545] 09 p 1362 N84-18899
GEVLICH, G. I.
Evaluation of skeletal muscle tone by recording lateral rigidity
02 p 0262 N84-11717
GEWESSLER, A.
Development of a method for wear measurement of thermoplast journal bearings
[OEFZS-4271] 18 p 2849 N84-28093
GEYER, D. W.
The application of standards to the TDY-750 (TIGER-SHARK) mission computer
[AD-P003567] 21 p 3337 N84-31172
GEYER, G. B.
Evaluation of an improved flame resistant aircraft window system
[FAA-CT-83-10] 17 p 2603 N84-26680
GEYER, M.
Metallurgy: Development of material recovery
16 p 2465 N84-25795
GEYER, M. A.
The use of computer ISA (Instruction Set Architectures) and software standards at Westinghouse Defense Electronics Center
[AD-P003552] 21 p 3334 N84-31156
GEYER, M. S.
Effect of non-constant solid phase thermal properties on temperature sensitivity of solid propellants
13 p 1946 N84-22654
GEYER, S.
Cronus: A distributed operating system
[AD-A139588] 14 p 2209 N84-24260
CRONUS: A distributed operating system
[AD-A138983] 15 p 2388 N84-25328
GEYSER, L. C.
AESOP: An interactive computer program for the design of linear quadratic regulators and Kalman filters
[NASA-TP-2221] 07 p 1057 N84-16843
GEZARI, D. Y.
Far infrared supplement: Catalog of infrared observations
[NASA-RP-1119] 16 p 2574 N84-26519
Catalog of infrared observations including: Bibliography of infrared astronomy and index of infrared source positions
[NASA-RP-1118] 16 p 2574 N84-26520
Submillimeter wavelength survey of the galactic plane from 1 = −5 deg to 1 = +62 deg: Structure and energetics of the inner disk
[NASA-TM-86077] 20 p 3319 N84-31069
GHAFARZADEH, M.
Functions in first order data bases
16 p 2565 N84-26461
GHAFFARI, F.
An analytical design procedure for the determination of effective leading edge extensions on thick delta wings
[NASA-CR-172351] 10 p 1419 N84-19284
An investigation of aerodynamic characteristics of wings having vortex flow using different numerical codes
[NASA-CR-173596] 16 p 2438 N84-25639
GHAFFARIAN, R.
Size effect and strength variability of unidirectional composites
[AD-A134171] 07 p 0967 N84-16268
GHAFORY-ASHTIANY, M.
Seismic response for multicomponent earthquakes
[PB84-193747] 20 p 3204 N84-30354
GHAHRAMANY, N.
Amplitude analysis of elastic p-p scattering at 6 GeV/c at all t's
[DE83-015875] 02 p 0291 N84-11909
GHALLA-GORADIA, M.
Optimal design of GaAs-based concentrator space solar cells for 100 AMO, 80 deg C operation
19 p 3044 N84-29312
Preliminary design of a 10-kW thermophotovoltaic system for space applications
[NASA-TM-83768] 22 p 3543 N84-32427
GHANOUNI, P.
Motivation and work performance: A comparative and analytical study
17 p 2747 N84-27441
GHARIB, M.
The effect of flow oscillations on cavity drag, and a technique for their control
06 p 0780 N84-15109
GHERLARDONI, E.
Technological effects of pressure vessel manufacturing processes on steel properties
[EUR-7614] 17 p 2622 N84-26780
GHEZZI, C.
CONSTRUCT: A tool for programming in the large
05 p 0722 N84-14733
GHIA, K. N.
Analysis of three-dimensional viscous internal flows
[AD-A135762] 09 p 1315 N84-18592
GHIA, U.
Analysis of three-dimensional viscous internal flows
[AD-A135762] 09 p 1315 N84-18592
GHIBU, M.
Use of radiation curing for the production of coated fabrics, profiles, flocking
[BMFT-FB-T-83-176] 07 p 0980 N84-16350
GHIELMETTI, A.
Observation of multiple ion beams in the magnetotail low latitude boundary layer. Evidence for a double H+ population
[IFSI-82-10] 03 p 0409 N84-12676
The structure of the plasma sheet-lobe boundary in the Earth's magnetotail
[NASA-TM-85434] 03 p 0463 N84-13049
GHIGLIA, D. C.
Automated data reduction for optical interferometric data
[DE83-012075] 03 p 0377 N84-12457
GHIGLIONE, D.
Gaseous cementation in nitrogen-methanol atmospheres
[CETIM-12-G-284] 21 p 3369 N84-31374
GHIGO, F. D.
Data compression techniques for astronomy
18 p 2842 N84-28041
Techniques of isophotometry
18 p 2842 N84-28042
GHODGAONKAR, D.
Biological effects of millimeter-wave irradiation: Living bacterial organisms
[AD-A142474] 20 p 3256 N84-30670
GHODOOSIAN, N.
Calculation of the pressure distribution on a pitching airfoil with application to the Darrieus rotor
[DE84-013571] 22 p 3532 N84-32363
GHONEIM, H.
Buckling of optical fibers within elastomers used in an embedded-core cable structure
11 p 1722 N84-21233
GHONIEM, A. F.
Experimental and theoretical study of combustion jet ignition
[NASA CR-168139] 01 p 0009 N84-10054
Numerical modeling of turbulent flow in a channel
[NASA-CR-168278] 04 p 0485 N84-13189
GHONIEM, N. M.
Fusion reactors: Physics and technology
[DE83-017148] 08 p 1232 N84-18055
Helium effects on the swelling of steels
[DE84-008989] 18 p 2815 N84-27871
START/TM: A Study of start-up and fractional power operation of tandem mirror fusion reactors
[DE84-011477] 21 p 3502 N84-32196
GHOSAL, A.
Theories of kinematic analysis and synthesis of spatial mechanisms containing lower and higher pairs
[AD-A134519] 07 p 1016 N84-16594
GHOSH, A. K.
The design and expected performance of a fast scintillator hadron calorimeter
06 p 0912 N84-15926

Processing and properties of airframe materials
[AD-A140832] 17 p2624 N84-26797

GHOSH, M. K.
Hydrodynamic lubrication of rigid nonconformal contacts in combined rolling and normal motion
[NASA-TM-83578] 08 p1166 N84-17592

GHOSH, S. K.
Automated en route air traffic control algorithmic specifications. Volume 1: Trajectory estimation
[AD-A137088] 10 p1426 N84-19328

GHOSN, L.
Three-dimensional analysis of chevron-notched specimens by boundary integral method
[NASA-CR-172225] 04 p0547 N84-13607

GHUSN, G., JR.
Geologic and hydrologic research on the Moana geothermal system, Washoe County, Nevada
[DE84-012409] 21 p3431 N84-31770

GIACAGLIA, G. E. O.
A note about Lie series and some applications
19 p3121 N84-29836
A simple theory of Trojan asteroids
19 p3121 N84-29837

GIALLORENZI, T. G.
Extended laser sensor
[AD-D011011] 19 p3029 N84-29214

GIAMEI, A. F.
Deformation studies in workable superalloys
[AD-A131606] 02 p0194 N84-11260

GIAMPAPA, M. S.
Combined ultraviolet studies of astronomical sources
[NASA-CR-175234] 08 p1242 N84-18121
Photometric variations of solar-type stars: Results of the Cloudcroft survey 17 p2779 N84-27646

GIANNELLA, F.
On the estimation of the 1st-order autoregressive parameter
[AD-A144284] 24 p3950 N84-35014

GIANNOTTI, J.
Fatigue considerations in view of measured load spectra
[AD-A140221] 17 p2679 N84-27067

GIARETTA, D. L.
Further studies of nearby high velocity interstellar gas
24 p3973 N84-35157

GIARLA, W.
Distributed problem solving for air fleet control: Framework and implementations
[AD-A143168] 21 p3327 N84-31108

GIAVOTTO, V.
The role of aeroelasticity in the preliminary design of helicopter rotors 02 p0172 N84-11130
Fast flutter clearance by parameter variation
02 p0172 N84-11135

GIBALA, R.
Environmental reactions and their effects on mechanical behavior of metallic materials
[DE84-005768] 12 p1799 N84-21734

GIBBARD, B.
Status of P714 - LAPDOG
[DE83-013613] 01 p0164 N84-11079

GIBBARD, B. G.
Neutrino-oscillation experiments at Brookhaven National Laboratory
[DE83-018275] 04 p0528 N84-13476

GIBBENREYTER, Y. B.
Fluid intake at high altitudes 07 p1044 N84-16772

GIBBENS, B. V.
A technique for dynamically calibrating pressure transducers at cryogenic temperatures
[NASA-TM-85695] 02 p0222 N84-11458

GIBBONS, A. S.
Instructional systems development model for interactive videodisc
[AD-A136737] 10 p1498 N84-19790
Interactive videodisc design and production, workshop guide
[AD-A136830] 10 p1498 N84-19791

GIBBONS, J. F.
Laser and electron beam processing of semiconductors: CW beam-recrystallized polysilicon as a device-worthy material
[AD-A133759] 05 p0753 N84-14942
Laser and electron beam processing of semiconductors: CW beam processing of ion implanted silicon
[AD-A133758] 05 p0754 N84-14943

GIBBONS, L. C.
Snow characterization instruments
[AD-A131984] 03 p0411 N84-12687

GIBBONS, R. T.
Material handling: A target for productivity improvement
[AD-P002829] 13 p2062 N84-23374

GIBBONS, T. B.
Trace elements in superalloys and the implications for recycling 23 p3705 N84-33484

GIBBS, C. P.
The filling effect of blockages in wide angle diffusers
[BU-284] 15 p2332 N84-25005

GIBBS, G. L.
Quaternary naltrexone reverses radiogenic and morphine-induced locomotor hyperactivity
[AD-P003252] 18 p2905 N84-28419

GIBBS, H. M.
Chaos in optical bistability 14 p2232 N84-24388
Fluctuations in optical bistability: Experiment with shot noise 14 p2232 N84-24392
Advances in GaAs bistable optical devices
14 p2233 N84-24394
Room-temperature thermal optical bistability in thin-film interference filters and dye-filled etalons
14 p2234 N84-24402
Self-defocusing and optical crosstalk in a bistable optical etalon 14 p2234 N84-24403
Routes to optical turbulence in a dispersive ring bistable cavity containing saturable nonlinearities
14 p2234 N84-24404
Optical nonlinearity and bistability due to the biexciton two-photon resonance in CuCl 14 p2239 N84-24441

GIBBS, K. P.
Mesospheric scatter and its microstructure
17 p2684 N84-27090

GIBBS, P.
First, second and third Herstmonceux catalogues of stars for 1950.0
[BULL-189] 08 p1243 N84-18125

GIBELING, H. J.
Computation of discrete slanted hole film cooling flow using the Navier-Stokes equations
[AD-A137022] 10 p1493 N84-19763
Investigation of the mechanism of transonic shock wave/boundary layer interactions using a Navier-Stokes analysis
[AD-A141551] 19 p2959 N84-28752

GIBSON, A.
Integral low-energy thermite igniter
[DE84-011082] 20 p3150 N84-29999

GIBSON, A. E.
An investigation into the nature and control of vortex flow round helicopter upsweep
[BU-285] 15 p2255 N84-24544

GIBSON, A. J.
Ionospheric factors affecting the performance of HF sky-wave sea-state radars 06 p0868 N84-15656

GIBSON, B. W.
The usefulness of impact dampers for space applications
[AD-A135695] 09 p1332 N84-18697

GIBSON, D.
Transport assessment: Arid task. Model verification studies
[DE84-000121] 04 p0555 N84-13653

GIBSON, D. G.
Aeroelastic considerations in preliminary design of a military combat aircraft 02 p0172 N84-11132
Incorporation of a PROM spatial light modulator into a system for automatic target recognition and tracking
[BAE-BT-12841] 13 p2042 N84-23250

GIBSON, D. M.
Coordinated IUE and ground-based observations of active stars: Flare events on YZ CMi, V 1005 ORI, AD Leo and AR Lac 24 p3975 N84-35177

GIBSON, E. D.
Tantalum-copper alloy and method for making
[DE84-011081] 20 p3155 N84-30037

GIBSON, E. K., JR.
Salts in the dry valleys of Antartica
13 p2085 N84-23510

GIBSON, G. P.
The effects of specimen size, specimen geometry and data analysis procedures on ductile crack growth resistance curves
[AERE-R-10906] 01 p0098 N84-10638

GIBSON, J. C.
Self-indexing latch system
[NASA-CASE-MFS-25956-1] 11 p1664 N84-20860

GIBSON, J. D.
Bit weighting and soft decision demodulation for image compression & error control
[AD-A134187] 07 p1054 N84-16825

GIBSON, M. J.
A practical single-mode system, 50 km at 140 mbit/s
11 p1725 N84-21253

GIBSON, P. R.
Canyon and slope processes study. Volume 3: Biological processes
[PB84-169507] 17 p2738 N84-27393

GIBSON, R. B.
Breakdown processes in large-area cold-cathode vacuum triodes
[DE84-014026] 22 p3602 N84-32817

GIBSON, R. K.
Advanced Gas Turbine (AGT): Power-train system development
[NASA-CR-168056] 01 p0089 N84-10581

GIBSON, S. G.
The computation of mesh configurations for three-dimensional flow analysis
12 p1875 N84-22221

GIBSON, W. M.
High energy channeling and its applications
[DE84-007251] 19 p3103 N84-29715

GIDAL, G.
Major detectors in elementary particle physics
[LBL-91-SUPPL] 06 p0910 N84-15910

GIDASPOW, D.
Simulation of powder distribution in IITRI bag experiments
[AD-A141941] 20 p3170 N84-30128

GIDDINGS, A. E.
Radiation testing of the CMOS 8085 microprocessor family
[DE83-014804] 02 p0271 N84-11771

GIDDINGS, J. M.
Calibration of laboratory bioassays with results from microcosms and ponds
[DE83-017224] 04 p0560 N84-13692

GIEBEL, H.
Nonlinear filter system for image preprocessing
[BMFT-FB-DV-83-001] 02 p0274 N84-11796

GIEBELS, M.
Automatic symbol generating for topographic maps using raster data processing following the example of the general topographic map 1:200,000 (TUEK 200)
20 p3226 N84-30497

GIENIEWSKI, C.
Buckling of optical fibers within elastomers used in an embedded-core cable structure
11 p1722 N84-21233

GIERATHS, W.
A SAR system test unit for verification of user requirements
[BMFT-FB-W-84-002] 19 p3009 N84-29074

GIERHART, G. D.
The IF-77 electromagnetic wave propagation model
[AD-A134504] 07 p0993 N84-16441

GIERLOFF-EMDEN, H. G.
Modular Optoelectronic Multispectral Scanner (MOMS), interpretation and evaluation of the MOMS-image Arica, west coast of South America 23 p3765 N84-33866

GIERSZEWSKI, P. J.
Plasma/neutral gas transport in divertors and limiters
[DE84-001594] 04 p0611 N84-14034

GIESE, R. H.
The ISPM dust experiment 09 p1262 N84-18239

GIESEKKE, E. W.
Spectroscopic studies on surface reactions between minerals and reagents in flotation systems
06 p0817 N84-15324

GIESELER, P. B.
Implementing new technology in the land mobile radio services
[PB84-101591] 08 p1148 N84-17472

GIESENBERG, P.
Vertical gyro with erection system and indication mechanism
[BMFT-FB-W-83-034] 12 p1819 N84-21858

GIESKE, J. H.
Sizing defects using annular-array techniques with an automated ultrasonic data-acquisition system
[DE84-001644] 04 p0546 N84-13597

GIESSEN, B. C.
Metastable transition metal alloys produced by rapid quenching: Structure and properties
[AD-A138296] 12 p1798 N84-21729
Studies of metastable microcrystalline and glassy alloys
[AD-A139941] 15 p2297 N84-24787

GIESSLER, F. J.
Evaluation of the crack growth gage concept as an individual aircraft tracking device, volume 1
[AD-A136932] 10 p1428 N84-19340

GIESSNER, J.
Optical excitation of trapping states in Fe doped InP
[AD-A134183] 07 p1080 N84-17019

GIESY, J. P.
Fates and biological effects of polycyclic aromatic hydrocarbons in aquatic systems
[PB83-250191] 04 p0561 N84-13698

GIFFIN, W. C.
Research on computer aided testing of pilot response to critical in-flight events
[NASA-CR-173871] 21 p3460 N84-31945

GIFT, E. H.
Reliability and maintainability data acquisition in equipment development tests
[DE84-002994] 07 p1084 N84-17051

GIJYUTSU, G.
Shearing stability of lubricants
[NASA-TM-77435] 11 p1636 N84-20697
GIL, B.
Volumetric representation for object model acquisition
12 p1870 N84-22189
GIL, C. S.
Tensile properties of plastic propellant ICP 200-P129 with CIS 1.4 polyisoprene
[INTA-NT-N-223/410/83.038] 18 p2821 N84-27913
GILARDI, R.
The structural chemistry of energetic compounds
[AD-A143955] 23 p3822 N84-34237
GILARDINI, A.
Advanced techniques of laser telemetry
06 p0906 N84-15883
GILAT, A.
An experimental and numerical investigation of pressure-shear waves in 6061-T6 aluminum and alpha-titanium 08 p1129 N84-17345
GILBERT, B. K.
Signal processing in high data rate environments. Design tradeoffs in the exploitation of parallel architectures and fast system clock rates. An overview
09 p1401 N84-19151
GILBERT, B. L.
An investigation of turbulence mechanisms in V/STOL upwash flow fields
[AD-A137775] 11 p1603 N84-20498
GILBERT, D.
Computer science and technology: Microcomputer: A review of federal agency experiences
[PB83-238972] 02 p0271 N84-11772
Computer science and technology: Selection of microcomputer systems
[PB84-167725] 15 p2389 N84-25331
GILBERT, H. W.
X-ray beam finder
[DE84-011100] 20 p3294 N84-30916
GILBERT, M. B.
Developments in science and technology
[JHU/APL/DST-10] 11 p1761 N84-21491
GILBERT, R. D.
Effects of high energy radiation on the mechanical properties of epoxy graphite fiber reinforced composites
[NASA-CR-173293] 08 p1122 N84-17292
GILBERT, R. M.
A high performance fiber optic telemetry link for use in a space radiation simulator
[AD-A132738] 05 p0643 N84-14232
GILBERT, R. O.
TRAN-STAT (statistics for environmental studies) no. 20, May 1982
[DE83-015096] 02 p0285 N84-11871
TRAN-STAT (statistics for environmental studies). Issue no. 24: Field sampling designs, simple random and stratified random sampling
[DE83-016826] 03 p0427 N84-12803
TRAN-STAT statistics for environmental studies. Statistical distributions for contaminant studies, and the estimation of average concentrations
[DE84-006579] 12 p1845 N84-22029
GILBERT, W.
LBL program of 1 meter long, 50 mm diameter bore, dipoles with fields greater than 8 tesla
[DE84-002902] 07 p1073 N84-16973
GILBERT, W. P.
Experimental investigation of forebody and wing leading-edge vortex interactions at high angles of attack
03 p0322 N84-12110
GILBODY, H. B.
Charge exchange and related processes
11 p1736 N84-21327
GILCHRIESE, M.
Review of properties of various types of calorimeters: High luminosity and high energy
06 p0911 N84-15917
GILDEN, D. L.
Dynamical evolution of substucture in molecular clouds 03 p0462 N84-13043
GILDNER, M. D.
Rare-earth ion-host lattice interactions: 15. Analysis of the spectra of Nd3+ in Gd3Sc2Ga3O12
[AD-A142555] 20 p3309 N84-31015
GILES, G. L.
Aerospace engineering design by systematic decomposition and multilevel optimization
[NASA-TM-85823] 19 p2962 N84-28775
GILES, I. A.
Water resources data for Alabama, water year 1982
[PB84-183250] 20 p3229 N84-30523
GILES, M.
Eigenmode analysis of unsteady one-dimensional Euler equations
[NASA-CR-172217] 01 p0003 N84-10022
Asymptotic analysis of numerical wave propagation in finite difference equations
[NASA-CR-175323] 06 p0822 N84-15360
GILES, P. C.
OMEGA documentation
[DE84-007014] 14 p2206 N84-24239
GILFERT, J. C.
Microprocessor automation for the Dynaflect Deflection Measuring System
[PB84-180413] 20 p3171 N84-30135
GILG, W.
POPSAT: A candidate satellite system for solid Earth applications and sciences. Preliminary feasibility study. Volume 1: Summary
[ESA-CR(P)-1882-VOL-1] 17 p2614 N84-26735
POPSAT: A candidate satellite system for solid Earth applications and sciences. Preliminary feasibility study. Volume 2: Development program
[ESA-CR(P)-1882-VOL-2] 17 p2614 N84-26736
GILIMJANOV, F. G.
Effect of modifying additives on the properties of polymer blends
[CSIR-1690] 01 p0049 N84-10313
GILINSKIY, M. M.
Analytical description of hypersonic gas jet discharged into motionless medium or into supersonic companion stream 17 p2644 N84-26914
GILL, D.
Employment changes resulting from the award of contracts in labor surplus areas
[AD-P002834] 13 p2063 N84-23379
GILL, G. L., JR.
Microgravity silicon zoning investigation
[NASA-CR-170919] 04 p0488 N84-13207
GILL, J. H.
Assumption of risk in the R and D environment
[AD-P002757] 13 p2051 N84-23304
Rationalization, standardization and interoperability: Protecting US interests in the process
[AD-P002814] 13 p2060 N84-23360
GILL, P. E.
Documentation for FDCALC and FDCORE
[DE83-013886] 01 p0124 N84-10808
User's guide for SOL/NPSOL: A FORTRAN package for nonlinear programming
[DE83-016903] 03 p0421 N84-12751
User's guide for SOL/QPSOL: A FORTRAN package for quadratic programming
[DE83-016990] 03 p0421 N84-12752
On the representation of a basis for the null space
[AD-A136419] 09 p1375 N84-18979
GILL, R. D.
Random number generators for a pocket calculator
[MC-SW-93/83] 07 p1064 N84-16904
GILL, R. J.
Fuel effects on soot formation in turbojet engines
[AD-A141287] 18 p2821 N84-27912
GILL, S. P.
Preliminary design of a reuseable PPMHD (Pulsed Plasma MHD) power supply test bed facility
[AD-A144147] 24 p3965 N84-35108
GILL, W. M.
Tri-service Combined Altitude Radar Altimeter (CARA): The Army perspective
[AD-P003586] 21 p3340 N84-31191
GILLANDERS, M. S.
Improved techniques of parallel gap welding and monitoring 19 p3048 N84-29341
GILLE, J. C.
Middle atmospheric science 20 p3219 N84-30448
GILLE, J. P.
On-orbit cryogenic fluid transfer
[NASA-TM-83688] 16 p2457 N84-25753
GILLE, W. H., JR.
Historical inflation program. A computer program generating historical inflation indices for Army aircraft: Revision
[AD-A137670] 11 p1599 N84-20474
GILLEN, K. T.
Physical techniques for profiling heterogeneous polymer degradation
[DE84-013807] 22 p3560 N84-32547
GILLERMAN, J. B.
Aircraft fuel tank inerting system
[AD-A141863] 19 p2964 N84-28785
GILLESPIE, G. P.
Helicopter Pilot/Copilot survival system
[AD-A140358] 16 p2445 N84-25682
GILLESPIE, K.
Radar remote sensing for crop classification and canopy condition assessment: Ground-data documentation
[E84-10020] 01 p0099 N84-10643
GILLESPIE, K. P.
Water resources data for Pennsylvania, Water Year 1982. Volume 1: Delaware River Basin
[PB84-161579] 14 p2170 N84-23999
GILLESPIE, L. K.
Initial insights on robotics
[DE84-010768] 20 p3197 N84-30302
Robotic deburring. Part 1: Preliminary observations
[DE84-010766] 20 p3197 N84-30305
GILLESPIE, T. D.
Dynamic behavior of nonuniform tire/wheel assemblies
[PB84-125541] 08 p1167 N84-17598
GILLHAM, J. K.
Formation and properties of polymers used in organic matrix composites
[AD-A134502] 07 p0979 N84-16344
The transformation of liquid to amorphous solid: The time to vitrify for styrene polymerization
[AD-A143228] 22 p3547 N84-32452
GILLIA, M.
A pioneer deep ocean mining venture
[PB84-199645] 21 p3433 N84-31780
GILLIAM, D. R.
A fundamental approach to the sticking of insect residues to aircraft wings
[NASA-CR-173721] 18 p2791 N84-27717
GILLIAM, F. T., JR.
An investigation of the effects of discrete wing tip jets on wake vortex roll up
[AD-A135872] 09 p1252 N84-18173
GILLIAM, W. L.
Project DELUGE: A proposed mathematical model for the Holloman AFB test track simulated rainfield
[AD-A134891] 08 p1108 N84-17207
GILLIGAN, D. D.
Potential applications of cable television (CATV) to the FEMA (Federal Emergency Management Agency) communications mission
[AD-A131326] 02 p0209 N84-11367
GILLIGAN, J. G.
Tokamak fusion reactors with less than full tritium breeding
[DE83-016711] 03 p0446 N84-12936
GILLILAND, T. M.
JANNAF Handbook: Rocket exhaust plume technology. Chapter 6: Spacecraft plume contamination
[AD-A131689] 05 p0644 N84-14236
GILLIVER, P. M.
Maximum-likelihood estimation of kinematic parameters 09 p1412 N84-19232
GILLOT, R.
Marine remote sensing activities of the Joint Research Center, Ispra, Italy 03 p0396 N84-12586
GILMAN, P.
Theoretical and experimental studies in support of the geophysical fluid flow experiment
24 p3923 N84-34832
GILMARTIN, T. J.
Large laser system facility design
[DE84-000159] 04 p0540 N84-13553
GILMER, G. H.
Models of rapid solidification
18 p2936 N84-28623
GILMORE, J. P.
Modular strapdown guidance unit with embedded microprocessors 16 p2447 N84-25697
GILMOZZI, R.
The 1978 - 1984 fading of the Seyfert 1 galaxy F-9
24 p3972 N84-35149
GILOI, H. G.
Height profile of the field strength of reception by multipath propagation in the cm wave range
[FI-455-TBR-75] 19 p3010 N84-29081
GILPIN, R. R.
Application of the finite element method to study crystal growth 15 p2307 N84-24840
GILROY, K. A.
Experience with Ada (trademark) for the Graphical Kernel System
[AD-P003426] 20 p3271 N84-30758
GILSON, B.
Tortuosity of lightning return stroke channels
[NASA-TM-86104] 18 p2883 N84-28295
GILSON, R. S.
Monolithic amplifier
[AD-D011075] 19 p3017 N84-29129
GIMMESTAD, D. W.
Aeroelastic tailoring of high-aspect-ratio composite wings in the transonic regime 02 p0170 N84-11119
GINATI, A.
Design of a project plan for the establishment of a lunar factory
[ILR-MITT-123] 10 p1435 N84-19379
GINDELE, K.
Technical applications of solar energy. Project photovoltaic systems and project selective coatings
[BMFT-FB-T-83-299] 12 p1844 N84-22025

GINEVAN, M. E.
Estimation of the ridge constant: An approach based on the condition index
[DE83-017955] 03 p0428 N84-12805
GINGERICH, J. Z.
Future developments of a hybrid CAD/CAM system
12 p1890 N84-22310
GINGRAS, D. F.
Asymptotic properties of extended Yule-Walker estimates of the AR parameters of an ARMA (autoregressive moving-average)
[AD-A134981] 08 p1221 N84-17970
GINKAS, M. L.
Automated inspection of analog-digital standard replacement components 18 p2824 N84-27927
GINNETT, R. C.
To the wilderness and beyond: The application of a model for transformal change
[AD-P003249] 18 p2904 N84-28416
GINOUX, J. J.
Three dimensional/boundary layer interaction: Laminar and turbulent behaviour
[AD-A137060] 10 p1493 N84-19765
GINSBERG, L. C.
Use of sperm enzymes to detect genotoxic agents
[AD-A142724] 20 p3260 N84-30691
GINSBURG, A. P.
Optical and human performance evaluation of HUD (Head-Up Display) systems design
[AD-A140601] 17 p2588 N84-26587
Direct performance assessment of HUD (Head-Up Display) display systems using contrast sensitivity
[AD-P003162] 17 p2589 N84-26593
GINTY, C. A.
Select fiber composites for space applications: A mechanistic assessment
[NASA-TM-83631] 13 p1954 N84-22702
Progressive fracture of fiber composites
[NASA-TM-83701] 18 p2809 N84-27831
Hygrothermomechanical fracture stress criteria for fiber composites with sense-parity
[NASA-TM-83691] 19 p2985 N84-28918
Fracture surface characteristics of notched angleplied graphite/epoxy composites
[NASA-TM-83786] 23 p3711 N84-33522
Fracture modes in notched angleplied composite laminates
[NASA-TM-83802] 24 p3878 N84-34576
GIOIA, A. L.
Thermal property measurement techniques and some results for CdTe and (Hg,Cd)Te alloys
[AD-A139375] 14 p2242 N84-24462
GIORDANO, S.
Design fabrication and testing of the BNL radio frequency quadrupole accelerator
[DE84-011915] 21 p3494 N84-32145
GIORDANO, T. J.
Hydrogen fluoride formation and metal corrosion in freon-contaminated propellants
20 p3137 N84-29921
GIOVANETTI, A. J.
Deposit formation and heat transfer in hydrocarbon rocket fuels
[NASA-CR-168277] 03 p0343 N84-12225
GIOVANNELLI, F.
Multifrequency observations of three active galaxies
24 p3972 N84-35151
Ultraviolet and optical observations of the Cygnus OB2 association: The star 8A 24 p3977 N84-35191
Coordinated X-ray and ultraviolet observations of RU Lupi 24 p3978 N84-35199
SS Cygni: Accretion disk morphology
24 p3979 N84-35206
Periodicity searches with IUE: Studies of pulsating galactic X-ray sources 24 p3981 N84-35218
Coordinated X-ray, ultraviolet, optical, and infrared observations of the transient source A0535+26
24 p3981 N84-35219
GIOVANOLA, J. H.
Dynamic fracture behavior of structural materials
[AD-A140381] 16 p2502 N84-26060
GIPE, R. L.
Evaluation of 95 gpm inductors for aqueous film forming foam
[AD-A141242] 18 p2818 N84-27894
GIPPENREYTER, Y. B.
Use of vitamins during adaptation to high altitudes
20 p3252 N84-30643
GIRARD, A.
A sample performance of the grille spectrometer aboard Spacelab
[AERONOMICA-ACTA-A-281-1984]
16 p2494 N84-26003
Trace constituants measurements deduced from spectrometric observations onboard Spacelab
[AERONOMICA-ACTA-A-266-1984]
20 p3239 N84-30565
GIRARD, R.
A nonlinear model of laminated plate, using combined variables 16 p2476 N84-25875
GIRARDEAU, M. D.
Liouvillian Green's-function theory of spectral line shape
[AD-A132467] 04 p0589 N84-13894
GIRATA, P. T., JR.
Inertial Upper Stage (IUS) Solid Rocket Motor (SRM) core flow sampling at high altitudes
[AD-A134997] 08 p1121 N84-17288
GIRI, D. V.
Design of incident field B-dot sensor for the nose boom of NASA F-106B aircraft
[AD-A141765] 19 p2964 N84-28787
GIRILL, T. R.
Display units for online passage retrieval: A comparative analysis
[DE84-001004] 15 p2395 N84-25369
GIRNTKE, H.
Ceramic components for gas turbines, phase 2
[BMFT-FB-T-83-198] 08 p1105 N84-17183
GIRON-DUARTE, A.
Stability of rotating disk flows
01 p0076 N84-10495
GIRON, A.
Flow between rotating disks. Part 2: Stability
15 p2315 N84-24891
GIROUARD, G. G.
Water resources data for Massachusetts and Rhode Island, water year 1982
[PB84-180009] 20 p3229 N84-30521
GIROUX, E. D.
Vectorizing and machine-spanning techniques
[DE84-000469] 04 p0578 N84-13810
GIRVIN, D. C.
MINTEQ: A computer program for calculating aqueous geochemical equilibria
[PB84-157148] 12 p1795 N84-21704
Chemical attenuation rates, coefficients, and constants in leachate migration. Volume 1: A critical review
[DE84-009432] 20 p3238 N84-30557
GISCH, A. H.
Automated en route air traffic control algorithmic specifications. Volume 3: Flight plan conflict probe
[AD-A136795] 10 p1425 N84-19319
Automated en route air traffic control algorithmic specifications. Volume 4: Sector workload probe
[AD-A136796] 10 p1425 N84-19320
GISSENDANNER, J. W.
Water resources data for South Carolina, water year 1982
[PB84-162577] 14 p2170 N84-24003
GIST, G. A.
Muon spin relaxation in ferromagnetic PdMn
[DE83-012659] 03 p0453 N84-12979
GIUDICI, B.
Electrical power trade-offs 03 p0344 N84-12232
GIULIANI, J. F.
Optical waveguide gas sensors
[AD-A130629] 01 p0148 N84-10969
GIVLER, R. C.
Numerical techniques for the prediction of flow induced orientation 22 p3591 N84-32743
GJESSING, D. T.
Multifrequency scattering for target characterization and identification: A summary of recent results
06 p0870 N84-15663
Ocean waves and turbulence as observed with an adaptive coherent multifrequency radar
17 p2714 N84-27279
GLACCUM, W.
NGC 2024: Far-infrared and radio molecular observations
[NASA-TM-85954] 16 p2575 N84-26524
The energetics and mass structure of regions of star formation
[NASA-TM-85953] 16 p2575 N84-26525
The nature of AFGL 2591 and its associated molecular outflow: Infrared and millimeter-wave observations
[NASA-TM-85963] 16 p2575 N84-26526
W3 North: Far-infrared and radio molecular observations
[NASA-TM-85961] 17 p2774 N84-27615
GLACKIN, D. L.
Application of image processing technology to problems in manuscript encapsulation
[NASA-CR-173200] 07 p1007 N84-16528
Cloud cover typing from environmental satellite imagery. Discriminating cloud structure with Fast Fourier Transforms (FFT)
[NASA-CR-173727] 18 p2883 N84-28296
GLADE, D. B. I.
In-flight investigation of longitudinal flying qualities criteria
[AD-A143614] 23 p3695 N84-33419
GLADKAJA, I. S.
Effect of high pressures and temperatures in pyrolytic boron nitride
[CSIR-1684] 01 p0030 N84-10189
GLADKOV, N. A.
Regional natural electric fields and their prospecting significance 18 p2864 N84-28181
GLADSTONE, D.
Chemical reaction dynamics at surfaces
22 p3661 N84-33340
GLADSTONE, G. R.
Radiative transfer and photochemistry in the upper atmosphere of Jupiter 04 p0621 N84-14095
GLADYSHEV, S. A.
Influence of choice of pair-interaction potential on results of modelling an edge dislocation in Alpha-iron
[BLL-M-35682-(5828.4)] 22 p3553 N84-32499
GLAESER, W. A.
Microstructures associated with wear
14 p2153 N84-23901
GLAGOLA, B. G.
Program PREGA pivotal regression analysis of gamma-ray spectra from NaI(T1) detectors for the ND6620 computer
[AD-A141539] 19 p3077 N84-29520
GLAHN, H. R.
Experimental wind forecasts from the local AFOSMOS (Automation of Field Operations and Services Model Output Statistics) program
[PB84-155514] 14 p2180 N84-24062
GLANCY, J. E.
d-d Tokamak reactor assessment
[DE83-016127] 04 p0609 N84-14019
GLANTSCHNIG, W. J.
Design and operation of a light-scattering device for sizing and velocimetry of large droplets
[DE83-902641] 03 p0377 N84-12456
GLASER, H.
Electrographite electrodes from coal tar pitch super needle coke for electric steel manufacturing
[BMFT-FB-T-83-067] 02 p0197 N84-11281
GLASER, J. J.
Aeroelastic design considerations for turboprop powerplant installations 02 p0171 N84-11123
GLASER, R. E.
Statistical analysis of Kevlar 49/epoxy composite stress-rupture data
[DE84-000516] 04 p0492 N84-13230
Application of kinetic fracture mechanics to life prediction for polymeric materials
[DE84-003002] 07 p0979 N84-16347
GLASGOW, T. K.
Coating with overlay metallic-cermet alloy systems
[NASA-CASE-LEW-13639-2] 18 p2813 N84-27855
Overlay metallic-cermet alloy coating systems
[NASA-CASE-LEW-13639-1] 23 p3716 N84-33555
GLASKA, E.
Photoelastic analysis of direct shear tests for granular materials
[BLL-M-28752-(5828.4)] 09 p1328 N84-18671
GLASS, C. M.
Processor architecture for airborne SAR systems
07 p0989 N84-16406
GLASS, D. V.
Improved management of support resources
[AD-P002808] 13 p2059 N84-23354
GLASS, I. I.
Random-choice solutions for weak spherical shock-wave transitions of n-waves in air with vibrational excitation
[UTIAS-253] 01 p0077 N84-10502
Normal reflection of a shock wave at a rigid wall in a dusty gas
[UTIAS-274] 12 p1815 N84-21829
Formation of a shock wave in a dusty gas by a moving piston
[UTIAS-275] 14 p2145 N84-23853
GLASS, J. T.
Acoustic emission determination of deformation mechanisms leading to failure of naval alloys, volume 1
[AD-A135387] 08 p1171 N84-17626
Acoustic emission determination of deformation mechanisms leading to failure of naval alloys, volume 2
[AD-A135388] 08 p1171 N84-17627
GLASSER, L. A.
Custom integrated circuits 22 p3684 N84-33361
GLASSMAN, A.
Supersonic STOVL ejector aircraft from a propulsion point of view
[NASA-TM-83641] 15 p2261 N84-24581

GLATZMAIER, G. A.
Numerical simulations of convectively excited gravity waves
[DE84-001867] 06 p0879 N84-15718
GLAUERT, J.
SISAL: Streams and Iteration in a Single-Assignment Language. Language reference manual, version 1.1
[DE83-016575] 04 p0582 N84-13843
GLAZAR, W.
The effects of vegetation and soil hydraulic properties on passive microwave sensing of soil moisture: Data report for the 1982 fiels experiments
[NASA-TM-85106] 07 p1023 N84-16633
GLAZE, D. J.
Picosecond time difference measurements utilizing CAMAC-based ANSI/IEEE-488 data acquisition hardware. Operating manual IE3, version 1.0
[PB84-116011] 09 p1319 N84-18616
GLAZER, A.
Search among queues
[AD-A131639] 03 p0424 N84-12773
GLAZER, J.
Pulsed magnetic field testing of multifilamentary Nb3Sn superconducting wire
[DE84-008250] 15 p2414 N84-25492
Critical current density of bronze-processed multifilimentary Nb-3Sn wires with magnesium addition to the matrix
[DE84-014579] 23 p3719 N84-33576
GLAZER, W.
Microwave radiometer experiment of soil moisture sensing at BARC test site during summer 1981
[NASA-TM-86056] 14 p2168 N84-23989
GLAZKOVA, V. A.
Biofeedback methods and quality of operator's performance 17 p2740 N84-27399
GLAZMAN, Y. S.
Design of short-wave absorption lines
21 p3377 N84-31433
GLAZOV, A. I.
Photoelectric master means of measurement of energy and maximum power of pulsed lasers
17 p2637 N84-26872
GLEBOV, I. A.
Problems in the development of high-power turbogenerators with superconducting field windings
[AD-A136525] 09 p1325 N84-18657
GLEBOV, L. B.
Newly discovered effect of interaction of optical radiation and glass 21 p3482 N84-32069
GLEDHILL, J. A.
Upper atmosphere research at Rhodes University since 1940: A review 09 p1344 N84-18779
GLEED, G. P.
Oblique vortex induced vibration of cylinders
[BU-295] 15 p2350 N84-25104
GLEESON, A. M.
Do pions condense in neutron-star matter?
[DE84-000463] 04 p0620 N84-14093
GLEICHMANN, R.
Interactions of twin boundaries and dislocations in solar silicon
[NASA-CR-173942] 23 p3789 N84-34032
GLENN, D. P.
VHSIC (Very High Speed Integrated Circuits) for training systems
[AD-P003484] 21 p3513 N84-32251
GLENN, J. S.
ARDS (Automated Requirements Development System) user's manual. Volume 1: Document analysis, revision
[AD-A135925] 09 p1398 N84-19128
GLENN, M. L.
Low-chromium heat-resisting ferritic alloys strengthened by the Chi Phase
[PB84-199041] 22 p3557 N84-32524
GLENNON, T.
The 400-Hz aircraft power-generation systems: Advancing the baseline 01 p0010 N84-10056
GLENNY, D. E.
Engine performance monitoring: Rolls-Royce Dart and Allison T56 turbo-prop engines
[ARL-MECH-ENG-NOTE-393] 04 p0486 N84-13191
GLEZER, A. M.
Specifics of processes of deformation and microfracture of amorphous iron-based alloys
12 p1788 N84-21662
GLIATTI, E. L.
Utility of the cortical evoked response as a measure of photographic image quality
[AD-A131679] 03 p0377 N84-12455
GLICK, B.
Report on functional design specification for the automated alphanumeric data entry system
[AD-A142518] 20 p3266 N84-30725
GLICK, D. J.
Application guidelines for quality assurance procedures for hybrid microcircuits
[AD-A131395] 02 p0214 N84-11405
GLICK, R. L.
Insitu measurement of burning rate
13 p1944 N84-22639
On the oscillatory flowfield in solid rocket motors
13 p1945 N84-22645
GLICKMAN, A. S.
A questionnaire assessment of estimated radiation effects upon military task performance
[AD-P003254] 18 p2905 N84-28421
GLICKSMAN, M. E.
Transport processes in dendritic crystallization
18 p2936 N84-28621
GLICKSTEIN, M. R.
Heat transfer and thermal stability of alternative aircraft fuels, volume 1
[AD-A137404] 10 p1469 N84-19597
Heat transfer and thermal stability of alternative aircraft fuels. Volume 2: Appendices
[AD-A137405] 10 p1469 N84-19598
Alternative fuel deposit formation
15 p2289 N84-24735
GLIEM, F.
The ISPM solar-wind ion composition spectrometer
09 p1261 N84-18232
GLIESE, W.
Absolute magnitude calibration for red dwarf stars
09 p1411 N84-19231
GLIMM, J.
The coupling of tracked and interior waves in a front tracking scheme
[AD-P002944] 14 p2197 N84-24184
GLINKA, C. J.
Microstructural evaluation of a ferritic stainless steel by small angle neutron scattering
[DE84-009487] 19 p2995 N84-28980
GLISTA, A. S., JR.
Fiber optics technology working group report IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study. Part 1: Executive summary
[AD-A137333] 10 p1504 N84-19831
GLOBUS, R.
Bone loss in tail-suspended rats in restricted to the unweighted limbs 09 p1353 N84-18843
GLOCK, M. D.
Understanding picture-text instructions
[AD-A139746] 15 p2382 N84-25287
GLOECKLER, G.
Iron charge states observed in the solar wind
03 p0473 N84-13112
Survey of He(+)/He(2+) abundance ratios in energetic particle events 03 p0474 N84-13117
The ISPM solar-wind ion composition spectrometer
09 p1261 N84-18232
GLOERSEN, P.
Antartic sea ice, 1973 - 1976: Satellite passive-microwave observations
[NASA-SP-459] 01 p0110 N84-10718
Report of the first Nimbus-7 SMMR Experiment Team Workshop
[NASA-TM-85093] 02 p0257 N84-11684
Arctic Sea ice by passive microwave observations from the Nimbus-5 Satellite 14 p2166 N84-23970
Remote sensing of the marginal ice zone during Marginal Ice Zone Experiment (MIZEX) 83
23 p3772 N84-33910
Observation of variations in the composition of sea ice in the Greenland MIZ during early summer 1983 with the Nimbus-7 SMMR 23 p3773 N84-33916
Passive microwave characteristics of the Bering Sea ice cover during Marginal Ice Zone Experiment (MIZEX) West 23 p3773 N84-33917
GLOKH, G. M.
The flow of an electrorheological suspension in cells of different geometries
[RAE-TRANS-2111] 11 p1646 N84-20760
GLORE, J. P.
The ISPM solar-wind plasma experiment
09 p1261 N84-18231
GLOSS-SOLAR, S. A.
Data and analysis center for software: An IAC in transition
[AD-A135985] 09 p1369 N84-18936
GLOTFELTY, M. F.
Relationships and tectonics of the Jg-7 quadrangle of Ganymede 13 p2091 N84-23542
GLOTOV, Y. P.
Improving energy performance and duty time of production process CW electrical ionization CO2 lasers by using five-component lasing mixtures
21 p3481 N84-32065
GLOTZ, G.
Development of a self-adapted error-controlled difference method to solve the three-dimensional laminar incompressible boundary layer equations by numerically given contours determined by points
[REPT-24/83] 19 p3025 N84-29186
The SLxE program for the solution of nonlinear systems for elliptic differential equations
[REPT-23/83] 24 p3953 N84-35033
GLOVATSKIY, A.
Pravda article on inventions elicits response
01 p0158 N84-11040
GLOVER, D. P.
Catalog of seismogram archives (revised)
[PB84-127976] 10 p1537 N84-20074
GLOWINSKY, R.
Least squares and domain decomposition methods applied to the numerical solution of nonlinear problems in fluid dynamics 06 p0839 N84-15468
GLUCKSTERN, R.
Beam cavity coupling impedance
[DE84-014064] 22 p3578 N84-32662
GLUCKSTERN, R. L.
Effect of RF structure on cumulative beam breakup
[DE83-017302] 03 p0439 N84-12882
GLUKHAREV, V. D.
Heavy machine-tool construction for 50 years
[AD-A137599] 11 p1665 N84-20861
GLUKHOV, S.
Climate modeling at Pacific Ocean Institute of Geography 17 p2697 N84-27178
GLUSHENKOVA, L.
Successes, shortcomings in using production wastes as raw material 01 p0054 N84-10352
GLYNN, P. W.
On ARMA (autoregressive moving average) representations for white noise in a Markovian environment
[AD-A136354] 09 p1386 N84-19054
Randomized estimators for time integrals
[AD-A137921] 11 p1714 N84-21180
Estimating time averages via randomly-spaced observations
[AD-A139315] 14 p2214 N84-24295
On the range of a regenerative sequence
[AD-A141652] 19 p3086 N84-29586
Equitable assignment rules
[AD-A142809] 21 p3515 N84-32268
GLYTENKO, A. L.
Thermal effect of pulsed laser irradiation on the surface of metallic mirrors 24 p3869 N84-34519
GNAEDIG, A.
Compact receivers for Shuttle Imaging Radar (SIR)-B SAR mission 23 p3778 N84-33953
GNEDIN, L. P.
Calculating the magnetic field from a saddle-shaped coil without a ferromagnetic circuit
[AD-A134776] 08 p1226 N84-18011
Problems in the development of high-power turbogenerators with superconducting field windings
[AD-A136525] 09 p1325 N84-18657
GNEUSS, G.
Cycle of waste heat energy transformation
[BMFT-FB-T-83-173] 07 p1026 N84-16652
GNOFFO, P. A.
A solution-adaptive finite-volume algorithm with application to problems in planetary entry
05 p0678 N84-14457
GOAD, W. K.
Video model deformation system for the National Transonic Facility
[NAS 1.15:85681] 02 p0222 N84-11457
GOANS, M. D.
Gypsy moths and American dog ticks: Space partners
18 p2800 N84-27768
GOATES, S. R.
Supercritical fluid chromatography/supersonic jet spectroscopy
[DE84-007364] 15 p2287 N84-24724
Supercritical and chromotography/supersonic jet spectroscopy
[DE84-012124] 21 p3360 N84-31312
GOBBY, P. L.
Using photoconductivity to improve image-tube gating speeds
[DE84-001732] 05 p0676 N84-14443
Nanosecond image-shuttering studies at Los Alamos National Laboratory
[DE84-001733] 06 p0830 N84-15405
GOBIEN, J.
Jam-resistant tactical communications
13 p1976 N84-22828
GOCKEL, E.
Documents on industrial research
[AGF-DOK-1/1983] 10 p1592 N84-20429

Industrial research and industry: Forms of collaboration and participation
[AGF-DOK-2/1983] 10 p1592 N84-20430

GODARD, R.
Numerical simulation of spacecraft charging phenomena at high altitude
[AD-A130043] 01 p0028 N84-10178

GODBILLON, C.
Annals of the Fourier Institute, volume 34, no. 1
[ISSN-0373-0956] 22 p3633 N84-33025
Annals of the Fourier Institute, volume 34, no. 2
[ISSN-0373-0956] 22 p3635 N84-33038

GODDARD, J. W. F.
The use of dual-polarization radar data to predict attenuation from precipitation on Earth-space paths
[ESA-CR(P)-1845] 12 p1809 N84-21798

GODETT, T. M.
The base engine for solar Stirling power
18 p2875 N84-28254

GODFREY, B. B.
Beam propagation experimental study
[AD-A133310] 06 p0915 N84-15946
Toroidal self-field corrections to the linear dispersion relation for the negative mass instability in a modified betatron
[AD-A135940] 09 p1377 N84-18995
Modified betatron accelerator studies
[AD-A137508] 10 p1576 N84-20329

GODIYENKO, V. V.
Structure and direction of evolution of European tectonosphere according to geological and geophysical data 17 p2706 N84-27233

GODLEWSKI, M. P.
Voltage controlling mechanisms in low resistivity silicon solar cells: A unified approach
[NASA-TM-83612] 11 p1673 N84-20916
The effect of diffusion induced lattice stress on the open-circuit voltage in silicon solar cells
[NASA-TM-83667] 13 p2008 N84-23027

GODOWITCH, J. M.
Urban scale var.ations of turbulence parameters and fluxes
[PB84-209113] 22 p3626 N84-32980

GODSTON, J.
Technology and benefits of aircraft counter rotation propellers
[NASA-CR-168258] 04 p0485 N84-13186

GODTHELP, J.
Time to Line Crossing (TLC): A new method to describe driving performance
[IZF-1983-10] 12 p1867 N84-22165
Open and closed loop steering in a lane change maneuver
[IZF-1983-22] 12 p1867 N84-22167
Optimal control model applications and field measurements with respect to car driving
[IZF-1983-18] 12 p1892 N84-22324

GODWIN, V. E.
Impurity states in the presence of an interface
[DE84-701192] 24 p3967 N84-35123

GOEBBELS, K.
Non-destructive evaluation techniques, high temperature ceramic component parts for gas turbines
[NASA-TM-77755] 23 p3694 N84-33413

GOEBEL, A. J.
Assessing contracting workforce requirements in the matrixed organization
[AD-P002760] 13 p2052 N84-23307

GOEBEL, C. A.
Hydroacoustics research in Seattle, Washington, 1967 - 1981. An annotated bibliography
[PB83-220483] 01 p0111 N84-10722

GOEBEL, D. M.
Observation of advanced particle removal rates in pump limiter simulation experiments
[DE84-014327] 22 p3660 N84-33202

GOEBEL, J. H.
Programmable masks for optical information processing 12 p1906 N84-22415

GOEDEL, H.
Preliminary design of aircraft using structural optimization methods 02 p0172 N84-11133

GOEDERT, J.
Thermal instabilities in the edge region of reversed-field pinches
[DE84-013861] 22 p3659 N84-33196

GOEDTKE, P.
Testing of coatings in space, Long Duration Exposure Facility (LDEF)
[BMFT-FB-W-84-017] 21 p3353 N84-31269

GOEKOGLU, S. A.
Engineering correlations of variable-property effects on laminar forced convection mass transfer for dilute vapor species and small particles in air
[NASA-CR-168322] 09 p1313 N84-18578

Comparisons of rational engineering correlations of thermophoretically-augmented particle mass transfer with STAN5-predictions for developing boundary layers
[NASA-CR-168221] 10 p1471 N84-19606
Experimental and theoretical deposition rates from salt-seeded combustion gases of a Mach 0.3 burner rig
[NASA-TP-2225] 10 p1490 N84-19741
Deposition of Na2SO4 from salt-seeded combustion gases of a high velocity burner rig
[NASA-TM-83751] 21 p3398 N84-31558

GOEKSTORP, P.
A program for computer-controlled impedance measurement within the microwave range
[FOA-C-30330-E3] 08 p1146 N84-17460

GOEL, A. L.
An error-specific approach to testing
13 p2027 N84-23143
A guidebook for software reliability assessment
[AD-A139240] 14 p2205 N84-24233

GOEL, P.
Numerical study of a separating and reattaching flow by using Reynolds-stress tubulence closure
[NASA-CR-166547] 08 p1097 N84-17133

GOELLER, H. E.
Engineering scoping study of the production of hydrogen and oxygen from the cerium oxide-sodium phosphate/carbonate thermochemical cycle
[DE84-010629] 20 p3150 N84-29998

GOERANSSON, G.
Nuclear explosion effects on telecommunication, etc. (effect of EMP and of ionizing radiation on electronics and optical electronics
[FOA-C-30302-A3] 08 p1146 N84-17458
Effects of transient ionizing radiation in various generations of TTL-circuits in the 54/74 series
[FOA-C-30365-A3] 23 p3744 N84-33736

GOERANSSON, P.
On the propagation of bending waves in a periodically stiffened panel
[FFA-TN-1984-12] 18 p2853 N84-28119

GOERG, K. A.
Calculation of unsteady flow in tubes of combustion engines with special regard to multiple branching
[REPT-82.8] 03 p0370 N84-12410

GOERGENS, B.
Study report on a modular photovoltaic power supply system for space application
[BMFT-FB-W-84-010] 19 p2983 N84-28904

GOERSS, J. S.
Four-dimensional satellite data assimilation
[AD-A139904] 15 p2372 N84-25228

GOERTZ, C. K.
A dawn to dusk electric field in the Jovian magnetosphere
[NASA-CR-166463] 08 p1245 N84-18136
Effects of chemical releases by the STS-3 Orbiter on the ionosphere
[NASA-CR-171032] 15 p2367 N84-25204

GOERZ, J. W.
Improved generator for use with low-speed rotating machines
[DE84-000375] 05 p0676 N84-14448

GOESELE, U.
Carbon, oxygen and their interaction with intrinsic point defects in solar silicon ribbon material: A speculative approach
[NASA-CR-173756] 18 p2870 N84-28221

GOETHERSTROEM, L.
Some signal processing methods based on covariance estimates of signal and noise
[FOA-C-30343-E1] 10 p1484 N84-19701
Informatics 1983: Signal processing
[FOA-A-30033-E] 15 p2321 N84-24932

GOETTING, H. R.
Digital processing of LANDSAT data for the preparation of a land use map of the rural district surrounding Tuebingen to a scale of 1:50000
[ESA-TT-816] 16 p2509 N84-26104

GOETZ, A. F. H.
Portable reflectance spectrometer
[NASA-CASE-NPO-13556-1] 23 p3749 N84-33766

GOETZE, F.
Robust statistical methods 16 p2504 N84-26071

GOETZINGER, J. W.
Review of storage stability characteristics of hydrocarbon fuels, 1952-1982
[DE84-006557] 12 p1803 N84-21754

GOFF, A. D.
Finite element solution of a self-adjoint transport equation in one dimension
[AD-A141225] 18 p2926 N84-28557

GOFF, M. F.
Ku-Band rendezvous radar performance computer simulation model
[NASA-CR-171804] 22 p3576 N84-32650

GOFORTH, J. H.
Experimental investigation of explosive-driven plasma-compression opening switches
[DE83-012420O] 02 p0214 N84-11399
Megavolt pulse transformer powered by a fast plate generator
[DE83-011189] 03 p0366 N84-12384

GOGGIN, R.
Matrix approach to testing mirrors, part 2
[DE83-011996] 04 p0558 N84-13676

GOGINENI, S.
Nordsee radar backscatter measurements data report
[AD-A141914] 20 p3173 N84-30148

GOGLIA, G. L.
Transition to turbulence in plane channel flow
[NASA-CR-173149] 07 p1000 N84-16486

GOGUEN, J.
Voyager feature-fixed photometry of lapetus
13 p2074 N84-23440

GOGUEN, J. A.
Linguistic methodology for the analysis of aviation accidents
[NASA-CR-3741] 06 p0784 N84-15135

GOH, C. J.
Analysis and control of quasi distributed parameter systems 04 p0547 N84-13603

GOHAR, Y.
Liquid metal breeder-coolant blanket concept
[DE84-006554] 20 p3302 N84-30971

GOHIL, D. D.
A critical assessment of thermodynamic data for the Ca-Mg system
[NPL-DMA(A)-73] 15 p2415 N84-25500

GOHLKE, B.
Emission-proof valves
[BMFT-FB-HA-83-028] 10 p1503 N84-19822

GOITEIN, S. L.
Installation restoration general environmental technology development. Task 3: Guidelines for in-place closure of dry lagoons. Volume 2: Evaluation of in-place closure technologies
[AD-A140655] 17 p2724 N84-27338

GOKHALE, M. B.
Generating data flow programs from nonprocedural specifications
[AD-A132609] 05 p0728 N84-14780

GOKHBERG, M. B.
Strong acoustic wave action 05 p0636 N84-14186

GOKHMAN, B.
An analysis LANDSAT-4 Thematic Mapper geometric properties 20 p3210 N84-30392

GOLANY, B.
Pareto-optimality, efficiency analysis and empirical production functions
[AD-A141788] 19 p3088 N84-29601

GOLAY, M. W.
Design and operation of a light-scattering device for sizing and velocimetry of large droplets
[DE83-902641] 03 p0377 N84-12456

GOLD, B.
Evaluation of the comprehension of non-continuous, sped-up vocoded speech: A strategy for coping with fading HF (High Frequency) channels
[AD-A138650] 13 p1982 N84-22871
Vocoder analysis based on properties of the human auditory system
[AD-A138660] 14 p2141 N84-23837
The discrimination of pitch in pulse trains and speech
[AD-A142996] 21 p3492 N84-32127

GOLD, M.
Pilot system for the purification of rinse water and for the recuperation of metals in electroplating companies. Pilot system metal recovery from waste water (RMA)
[BMFT-FB-T-83-208] 08 p1126 N84-17323

GOLD, R.
Imaging of fast-neutron sources using solid-state track-recorder pinhole radiography
[DE84-001466] 05 p0685 N84-14504
Continuous energy gamma-ray spectrometry
[DE84-006349] 14 p2123 N84-23726

GOLD, R. E.
The ISPM experiment for spectral, composition and anistropy measurements of charged particles at low energie 09 p1261 N84-18235

GOLD, S. H.
Design and operation of a collective millimeter-wave free-electron laser
[AD-A131628] 01 p0087 N84-10568
Study of gain, bandwidth, and tunability of a millimeter-wave free-electron laser operating in the collective regime
[AD-A139285] 14 p2151 N84-23884
A high-gain 35 GHz free-electron laser amplifier experiment
[AD-A139593] 14 p2151 N84-23886

GOLD, T.
Studies related to the deep Earth gas
[PB83-244004] 02 p0251 N84-11644
GOLDACKER, H.
Influence parameters of impact grinding mills
[NASA-TM-77352] 10 p1471 N84-19607
GOLDBACH, G.
Dopants profiling techniques in semiconductor technology
[BMFT-FB-T-83-126] 02 p0300 N84-11972
GOLDBERG, A.
Mechanical engineering research program
[DE84-001085] 12 p1823 N84-21884
GOLDBERG, B. A.
A modeling analysis program for the JPL Table Mountain Io sodium cloud data
[NASA-CR-173971] 23 p3844 N84-34386
GOLDBERG, B. B.
Assessment of ultrasonic B-scan imaging for detection and quantification of atherosclerotic lesions in human carotid and iliofemoral arteries and in arteries of animals
[PB83-261123] 05 p0714 N84-14678
GOLDBERG, B. E.
Dielectric cure monitoring: Preliminary studies
[NASA-TM-86452] 21 p3369 N84-31378
GOLDBERG, D. A.
Efficient radiation-hardened, 400- and 800-keV neutral-beam injection systems
[DE83-015691] 03 p0440 N84-12886
GOLDBERG, I. S.
Total aerosol volume computed from laser spectrometer particle-size data for comparison with flame photometer total-mass data
[AD-A143171] 21 p3359 N84-31306
GOLDBERG, J.
Development and analysis of the Software Implemented Fault-Tolerance (SIFT) computer
[NASA-CR-172146] 09 p1371 N84-18953
GOLDBERG, M.
Stability analysis for difference schemes, problems in applied linear algebra, and application of number theory to computing
[AD-A133654] 05 p0735 N84-14825
Searching for limitations in capability due to high average rates 06 p0911 N84-15919
Prospects for Cerenkov ring imaging at hadron colliders 06 p0913 N84-15934
Operation of a high-P/sub T spectrometer arm at 10/sup 33 cm-2 sec-1 with particle identification 06 p0913 N84-15937
Stability analysis of finite difference schemes for hyperbolic systems, and problems in applied and computational linear algebra
[AD-A143537] 22 p3646 N84-33119
Geocoded data structures and their applications to Earth science investigations
[NASA-TM-86113] 24 p3968 N84-35127
GOLDBERG, M. L.
Measures of nonlinearity for segmented regression models
[AD-A132838] 05 p0740 N84-14864
Simplified confidence intervals for an awkward nonlinear model
[AD-A136403] 09 p1374 N84-18975
The effect of aggregation in nonlinear regression
[AD-A141728] 19 p3087 N84-29597
GOLDBERG, S. L.
Memory organization-based methods of instruction: A comparison with performance-oriented training
[AD-A137640] 11 p1701 N84-21098
GOLDBERG, U. C.
Scaling and modeling of three-dimensional, end-wall, turbulent boundary layers
[NASA-CR-3792] 16 p2485 N84-25941
GOLDE, M. F.
Spectroscopic studies of the products of the reactions of excited noble-gas atoms
[AD-A137750] 11 p1730 N84-21284
GOLDEN, D. M.
Laser probes of propellant combustion chemistry
[AD-A140767] 17 p2628 N84-26814
GOLDEN, W. G.
Raman and infrared spectroscopy of molecules adsorbed on metal electrodes
[AD-A143466] 22 p3547 N84-32454
GOLDENVEYZER, A. L.
Vibrations of and radiation from shell of revolution under hoop load 17 p2649 N84-26940
GOLDFARB, D.
Algorithms for nonlinear programming
[AD-A130903] 01 p0122 N84-10796
GOLDFARB, E. M.
Finding the roots of the transcendental equations in the problem of determining the thermal conductivity of a plate under heterogeneous boundary conditions
[BLL-M-35602-(5828.4)] 19 p3082 N84-29554
GOLDFARB, I. J.
Characterization of Acetylene Terminated Sulfone (ATS-G)
[AD-A141348] 18 p2819 N84-27897
GOLDFINE, A.
Specifications for a federal information processing standard data dictionary system 11 p1749 N84-21414
GOLDFINGER, A. D.
Tracking ocean wave spectrum from SAR images 17 p2714 N84-27277
GOLDFINGER, R. C.
Theoretical aspects of throat-launch microwave heating in EBT-S
[DE83-015762] 03 p0438 N84-12875
Detailed modeling of microwave energy deposition in EBT devices
[DE83-017496] 03 p0449 N84-12952
Propagation and absorption of electromagnetic waves in fully relativistic plasmas
[DE83-017246] 03 p0450 N84-12959
Propagation and absorption of electromagnetic waves in fully relativistic plasmas
[DE84-013627] 22 p3660 N84-33204
GOLDFLAM, R.
Soliton bag: Dynamics and the quark plasma
[DE84-001103] 05 p0745 N84-14895
GOLDFRANK, B.
Vibration resistant quartz crystal resonators
[AD-A132274] 04 p0526 N84-13459
GOLDHAR, J.
Large aperture optical switching devices
[DE84-005126] 12 p1908 N84-22433
Large aperture electro-optical switch
[DE84-013089] 22 p3588 N84-32728
GOLDHIRSH, J.
Altimeter height measurement errors introduced by the presence of variable cloud and rain attenuation 17 p2716 N84-27289
Improved resolution rain measurements from spaceborne radar altimeters 17 p2716 N84-27290
GOLDIE, H.
Microwave discharge apparatus and method with dual function priming resonator
[AD-D011202] 24 p3899 N84-34689
GOLDIEZ, B. F.
Real-time CGSI (Computer Generated Synthesized Imagery)-single pipeline processor
[AD-P003480] 21 p3512 N84-32247
GOLDMAN, A.
Stratospheric NO and NO2 profiles at sunset from analysis of high-resolution balloon-borne infrared solar absorption spectra obtained at 33 deg N and calculations with a time-dependent photochemical model
[NASA-TM-86285] 20 p3240 N84-30566
Fuselage torsion of a CT4 aircraft
[AD-A142753] 21 p3328 N84-31114
Evaluation of a vibration technique for detection of barely-visible impact-damage in composites
[AD-A142807] 21 p3357 N84-31293
GOLDMAN, A. I.
Passive films, surface structure and stress corrosion and crevice corrosion susceptibility
[AD-A135549] 08 p1132 N84-17363
GOLDMAN, A. M.
Experimental study of the thermodynamics of thin films and surfaces
[DE84-010361] 18 p2943 N84-28660
GOLDMAN, D. M.
Infiltration and soil moisture redistribution in HEC-1
[AD-A141626] 19 p3041 N84-29295
GOLDMAN, D. T.
Journal of Research of the National Bureau of Standards. Volume 88, Number 5, September-October 1983
[PB84-125293] 08 p1139 N84-17406
GOLDMAN, J. L.
Long cycle life secondary lithium cells utilizing tetrahydrofuran
[AD-A140762] 17 p2723 N84-27331
GOLDMAN, L. J.
Three component velocity measurements using Fabry-Perot interferometer
[NASA-TM-83692] 16 p2495 N84-26010
GOLDMAN, L. M.
Observation of scattered light between Omega-2 and 3/2-Omega in short wavelength laser produced plasmas
[DE84-012533] 20 p3306 N84-31001
How useful are odd-integer half-harmonics
[DE84-012392] 21 p3501 N84-32190
GOLDMAN, R. N.
An umful of blinding functions 12 p1870 N84-22184
GOLDNER, R. B.
Optics and materials research for controlled radiant energy transfer in buildings 16 p2517 N84-26159
GOLDOWSKY, M.
A magnetically suspended linearly driven cryogenic refrigerator 06 p0820 N84-15345
GOLDSACK, S.
Ada-Europe guidelines for the portability of Ada programs, second edition
[NPL-DITC-27/83] 03 p0419 N84-12739
GOLDSBY, D.
Classification management. Journal of the national classification management society, volume 19, 1983
[AD-A143015] 21 p3518 N84-32286
GOLDSCHMIDT, H.
Infinitesmal deformation of locally symmetrical Riemann spaces. 2: Blaschke's infinitesimal conjecture for complex projective space 22 p3636 N84-33049
GOLDSMITH, T. E.
Cognitive organization as a function of flying experience
[AD-A141767] 19 p3068 N84-29459
GOLDSMITH, W.
Mechanics of projectile impact against thin plates
[AD-A138494] 12 p1823 N84-21882
GOLDSPINK, D.
The combined influence of stretch, mobility and electrical stimulation in the prevention of muscle fiber atrophy caused hypokinesia and hypodynamia
[NASA-CR-173994] 24 p3936 N84-34914
GOLDSPINK, G.
The combined influence of stretch, mobility and electrical stimulation in the prevention of muscle fiber atrophy caused hypokinesia and hypodynamia
[NASA-CR-173994] 24 p3936 N84-34914
GOLDSTEIN, B. E.
The effect of the solar field reversal on the modulation of galactic cosmic rays 03 p0471 N84-13101
Ion mass spectrometer
[NASA-CASE-NPO-15423-1] 18 p2838 N84-28016
GOLDSTEIN, C. I.
A finite element method for treating nearly one way wave propagation
[DE84-010294] 20 p3290 N84-30889
On accuracy conditions for the numerical computation of waves
[NASA-CR-172433] 22 p3645 N84-33111
GOLDSTEIN, D. N.
Contingency power concepts for helicopter turboshaft engine
[NASA-TM-83679] 14 p2109 N84-23648
Rotorcraft contingency power study
[NASA-CR-174675] 15 p2261 N84-24580
GOLDSTEIN, H.
On the field configuration in magnetic clouds 03 p0475 N84-13125
GOLDSTEIN, J. C.
High-efficiency free-electron-laser experiments
[DE83-015218] 02 p0227 N84-11487
Evolution of long pulses in a tapered wiggler free-electron laser
[DE83-017235] 03 p0381 N84-12484
First operation of the Los Angeles free-electron laser oscillator
[DE84-006024] 11 p1664 N84-20856
The XUV/VUV free-electron laser oscillator
[DE84-011347] 20 p3193 N84-30279
GOLDSTEIN, J. D.
The effect of coordinate system rotation on spherical harmonic expansions: A numerical method
[AD-A131974] 03 p0425 N84-12785
GOLDSTEIN, M.
Metal-chelate polymers: Structural/property relationships as a function of the metal ion
[AD-A140205] 16 p2471 N84-25839
GOLDSTEIN, M. E.
Generation of sound in turbulent shear flows 06 p0768 N84-15031
GOLDSTEIN, M. L.
Determining the alpha dynamo parameter in incompressible homogeneous magnetohydrodynamic turbulence
[NASA-TM-85110] 02 p0295 N84-11936
Spectral analysis of magnetohydrodynamic fluctuations near interplanetary schocks
[NASA-TM-85119] 03 p0462 N84-13044
Radial variations of large-scale magnetohydrodynamic fluctuations in the solar wind
[NASA-TM-85116] 03 p0463 N84-13045
Magnetohydrodynamic turbulence in the solar wind 03 p0467 N84-13073
Power spectral signatures of interplanetary corotating and transient flows
[NASA-TM-86051] 08 p1244 N84-18131
Particle acceleration by turbulent magnetohydro-dynamic reconnection
[NASA-TM-86121] 16 p2558 N84-26409

Large amplitude MHD waves upstream of the Jovian bow shock: Reinterpretation
[NASA-TM-86131] 21 p3525 N84-32333

GOLDSTEIN, P.
Experiences in teaching Ada (trademark)
[AD-P003419] 20 p3270 N84-30751

GOLDSTEIN, R.
Ion mass spectrometer
[NASA-CASE-NPO-15423-1] 18 p2838 N84-28016
A psychophysiological mapping of cognitive processes
[AD-A144557] 24 p3937 N84-34922

GOLDSTEIN, R. E.
Phase transitions in chemisorbed systems
22 p3682 N84-33342

GOLDSTEIN, R. J.
Film cooling on a gas turbine blade near the end wall
[AD-A138794] 13 p1933 N84-22569

GOLDSTEIN, R. M.
Synthetic aperture radar target simulator
[NASA-CASE-NPO-15024-1] 18 p2827 N84-27951

GOLDSTEIN, S. A.
Anode plasma expansion in pinch-reflex diodes
[AD-A131083] 01 p0149 N84-10977
Operational factors in the design of the PBFA 2 accelerator
[DE83-013076] 02 p0290 N84-11900
Investigation of a pulsed electrothermal thruster
[NASA-CR-168266] 03 p0343 N84-12227
Decoupling ion efficiency from impedance in pulsed power diodes
[DE83-018114] 04 p0526 N84-13470
Theoretical modeling of the plasma-erosion opening switch for inductive-storage applications
[DE84-001843] 04 p0529 N84-13483
Status of light ion inertial fusion research at NRL (Naval Research Laboratory)
[AD-A135951] 09 p1392 N84-19087
Research and development of a plasma jet mass accelerator as a driver for impact fusion
[DE84-012940] 22 p3659 N84-33198

GOLDSTEIN, S. N.
Software for explicitly probabilistic mathematics
[AD-P002881] 13 p1978 N84-22842

GOLDSTIEN, G. R.
Amplitude analysis of elastic p-p scattering at 6 GeV/c at all t's
[DE83-015875] 02 p0291 N84-11909

GOLDSTONE, J. A.
Travelling wave bistability 14 p2237 N84-24426

GOLDWASSER, J. M.
Synthesis of energetic materials
[AD-A141495] 19 p3001 N84-29021

GOLDWIRE, H. C., JR.
The evaporation and gaseous dispersion of large-scale releases of nitrogen tetroxide
[AD-A142079] 20 p3166 N84-30104

GOLE, J. L.
Characterization of high-temperature vapor-phase species and vapor-solid interactions of import to combustion and gasification processes in the energy technologies
[DE83-015166] 04 p0494 N84-13242

GOLFELD, G. B.
Dispersion of sequential detection time for signals submerged in autoregressional interference
17 p2632 N84-26839

GOLITSYN, R. I.
High-voltage spark gap
[AD-A141072] 19 p3013 N84-29097

GOLLA, D. F.
Stability diagrams for a rigid gyrostat in a circular orbit
[UTIAS-TN-243] 17 p2671 N84-27023

GOLLUB, R.
Motivating managers: A guide to performance targeting and performance-based pay in state and local governments
[PB83-237834] 02 p0301 N84-11978

GOLOSHCHAPOV, F. A.
Solid-phase reaction of dispersed graphitized material with aluminium and nickel
[BLL-M-35633-(5828.4)] 22 p3551 N84-32482

GOLOVANOV, V.
Pilot jet lag experiments described
22 p3629 N84-32997

GOLOVASHCHENKO, P. Y.
Installation of large-size technological equipment (selected pages)
[AD-A139069] 15 p2318 N84-24910

GOLOVINA, L. K.
Autonomous microprocessor controllers for scientific research automation systems 24 p3941 N84-34946

GOLOVKIN, A. V.
Form coefficient for the field of a superconducting synchronous machine
[AD-A134751] 08 p1226 N84-18010

GOLUB, L.
Bright, rapid, highly polarized radio spikes from the M dwarf AD Leo
[AD-A136205] 09 p1418 N84-19275
A normal incidence, high resolution X-ray telescope for solar coronal observations
[NASA-CR-173518] 13 p2070 N84-23412

GOLUB, M. A.
Structure-activity correlations for organophosphorus ester anticholinesterases. Part 2: CNDO/2 calculations applied to ester hydrolysis rates
[NASA-TM-85888] 07 p0966 N84-16257

GOLUB, R. A.
Test-engine and inlet performance of an aircraft used for investigating flight effects on fan noise
[NASA-TP-2254] 11 p1729 N84-21277

GOLUBENKOVA, L. I.
Synthesis of polyheterocarylenes for highly heat-resistant materials
[AD-A140610] 17 p2626 N84-26804

GOLUBEVA, T. V.
Characteristic rock dimensions and hierarchical properties of seismicity 18 p2863 N84-28176

GOLUBINSKIY, A. I.
Hypersonic three-dimensional flow of radiating gas around wing 21 p3481 N84-32062

GOLUBJATNIKOV, O.
Architecture, hardware and software issues in fielding the next generation DOD processors
[AD-P003581] 21 p3339 N84-31186

GOLUBKIN, V. N.
Hypersonic three-dimensional flow of radiating gas around wing 21 p3481 N84-32062

GOLUBKOV, V. G.
Production methods and properties of metal powders for high temperature pressing 24 p3877 N84-34567

GOLUBYATNIKOV, A. N.
Central burst of simultaneously rotating and gravitating body 13 p1969 N84-22783

GOLVIN, B.
Slotted waveguide array antennas for spaceborne SAR applications 07 p0987 N84-16397

GOLWALKAR, S.
Fatigue crack growth and low cycle fatigue of two nickel base superalloys
[NASA-CR-174534] 01 p0042 N84-10267

GOLYNSKAYA, I. M.
Coordinated X-ray and ultraviolet observations of RU Lupi 24 p3978 N84-35199

GOLYNSKIY, S. M.
Trajectories of radio waves in linear layer with isometric inhomogeneities 17 p2631 N84-26833
Density inhomogeneities in upper mantle of eastern Indian Ocean 17 p2702 N84-27210
Ray trajectories in stochastic media with linear dependence of deterministic velocity component on depth 17 p2702 N84-27211

GOMBEER, R.
Group Agromet Monitoring Project (GAMP), phase 1
[ESA-CR(P)-1769] 07 p1023 N84-16637

GOMBERG, A.
Fire investigation 04 p0510 N84-13344

GOMER, R.
Extensions of electron stimulated desorption measurements. Investigation of gas adsorption on Cu layers deposited on a tungsten (110) surface
[AD-A143779] 23 p3714 N84-33539

GOMEZ, J.
A program for the automatic request of magnetic tapes filing and reading of its contents (processor PCINTA)
[JEN-545] 04 p0578 N84-13815

GOMI, H.
Pneumatic atomisation with coaxial injectors: Measurements of drop size by diffraction method and liquid phase fraction by attenuation method
[NAL-TR-768] 09 p1312 N84-18574
A study of liquid hydrogen cooled LO2/LH2 rocket combustor with channel wall construction
[NAL-TR-767] 16 p2459 N84-25763

GOMI, T.
Development of composite fiber-optic electric-power umbilical cable and optical feedthrough for deep ocean mining 11 p1722 N84-21231

GONCALVES, A. M. P.
Dynamic aspects of the dye-sensitized photoconductivity of semiconductors
[DE84-001132] 04 p0615 N84-14059

GONCALVESDASILVA, M. A.
West breakwater-Sines (Portugal). Overview of rehabilitation and synthesis of project
09 p1194 N84-17786

GONCHARENKO, V. P.
Influence of laser hardening on mechanical properties of type 45 steel 24 p3873 N84-34546

GONCHAROV, A. K.
Amplitude-frequency method of measuring phase of reflection coefficient 18 p2826 N84-27942

GONCHAROV, I. B.
Changes in some rheological parameters of blood in experiments simulating weightlessness
07 p1044 N84-16774

GONCHAROV, V. P.
Hamiltonian representation of equations of hydrodynamics and its use in describing wave movements in currents with shear 18 p2865 N84-28190

GONCHARSKIY, A. V.
Focusers of obliquely incident laser radiation
21 p3487 N84-32099

GONCHARUK, A. B.
Nitration of intermetallide TiAl3
12 p1785 N84-21648

GONCZY, J. D.
Operational studies and expected performance of superconducting quadrupole magnets in the first stages of secondary beams
[DE83-016734] 03 p0456 N84-12999

GONDA, S.
The preparation of BP single crystals by high pressure flux method
[NASA-TM-77389] 10 p1587 N84-20403

GONDET, J. F.
Method for designing future weapons systems: Example of the very short distance ground-air systems
21 p3350 N84-31250

GONG, G. D.
Comment on graphical methods for assessing logistic regression models by Landwehr, Pregibon and Shoemaker
[AD-A135684] 09 p1383 N84-19031

GONG, L.
Thermal response of Space Shuttle wing during reentry heating
[NASA-TM-85907] 18 p2802 N84-27785

GONSALVES, M. R.
Sensitivity of bone cell populations to weightlessness and simulated weightlessness 23 p3809 N84-34151

GONSALVEZ, D. J.
Engineering calculations for communications satellite systems planning
[NASA-CR-173532] 14 p2113 N84-23662

GONSHARENKO, A. M.
Electrosleep in prophylaxis of psychoneural stress and recovery of mental performance in operators
18 p2895 N84-28367

GONZALES, C. A.
The HF-enhanced plasma line
05 p0635 N84-14180

GONZALEZ-BLAZQUEZ, A.
Study on optimal tracking strategy
[GMV-211/83] 08 p1113 N84-17243

GONZALEZ-SANABRIA, O. D.
Separator development and testing of nickel-hydrogen cells
[NASA-TM-83653] 13 p1955 N84-22712
Design considerations for a 10-kW integrated hydrogen-oxygen regenerative fuel cell system
[NASA-TM-83664] 13 p2008 N84-23023
Advanced designs for IPV nickel-hydrogen cells
[NASA-TM-83643] 13 p2008 N84-23025
Teardown analysis of a ten cell bipolar nickel-hydrogen battery
[NASA-TM-83618] 13 p2008 N84-23026

GONZALEZ, A. C.
Stress corrosion of ceramic materials
[AD-A136729] 10 p1467 N84-19581

GONZALEZ, A. L. C.
Solar wind energy transfer to the terrestrial magnetosphere by magnetic junction in the magnetopause
[INPE-2848-RPE/439] 02 p0247 N84-11617
Vertical mapping of quasistatic and large scale ionospheric electric fields in low latitudes
[INPE-2838-PRE/385] 02 p0247 N84-11618
Energy transfer by magnetopause reconnection and the substorm parameter epsilon
[INPE-2908-PRE/422] 07 p1031 N84-16690
Long time behaviour of the interplanetary magnetic field-sectorial structure
[INPE-3222-PRE/573] 24 p3990 N84-35245

GONZALEZ, C. C.
Hot-spot heating in central-station arrays
22 p3582 N84-32686

GONZALEZ, D. D.
Modeling of the regional hydraulics of the Rustler Formation
[DE84-005859] 11 p1672 N84-20910

GONZALEZ, D. W.
A general purpose computer architecture investigation facility
[AD-P003573] 21 p3338 N84-31178

GONZALEZ, R. C.
Spatial image processing masks from frequency domain specifications
[AD-P003126] 16 p2534 N84-26267
GONZALEZ, R. R.
Heat exchange following atropine injection before and after heat acclimation
[AD-A132618] 06 p0890 N84-15780
Heat exchange during upper and lower body exercise
[AD-A136015] 10 p1548 N84-20146
GONZALEZ, V. H.
Propagation effects in satellite-borne synthetic aperture radars 06 p0867 N84-15650
Propagation effects in satellite-based synthetic aperture radars
[AD-A138681] 13 p1983 N84-22873
GONZALEZ, W. D.
Solar wind energy transfer to the terrestrial magnetosphere by magnetic junction in the magnetopause
[INPE-2848-RPE/439] 02 p0247 N84-11617
Vertical mapping of quasistatic and large scale ionospheric electric fields in low latitudes
[INPE-2638-PRE/385] 02 p0247 N84-11618
Energy transfer by magnetopause reconnection and the substorm parameter epsilon
[INPE-2908-PRE/422] 07 p1031 N84-16690
Long time behaviour of the interplanetary magnetic field-sectorial structure
[INPE-3222-PRE/573] 24 p3990 N84-35245
GOOCH, R.
Research on algorithms for adaptive array antennas
[AD-A131064] 01 p0072 N84-10489
GOOD, J. C.
MM-wavelength measurements of CO in the atmosphere of Mars and SO2 in the atmosphere of Venus 13 p2072 N84-23429
GOODE, W. E.
Processing time using Datatrieve-11, clunks, and FORTRAN
[DE84-001706] 06 p0935 N84-16081
GOODELL, P. D.
Oxidation of Inconel alloy MA754 at low oxidation potential
[DE83-017191] 04 p0501 N84-13288
GOODENOUGH, D. G.
CCRS proposal for evaluating LANDSAT-D MSS and TM data
[E84-10026] 02 p0238 N84-11560
CCRS proposal for evaluating LANDSAT-4 MSS and TM data
[E84-10096] 10 p1522 N84-19966
Evaluating LANDSAT-4 MSS and TM data
[E84-10157] 17 p2709 N84-27249
A preliminary assessment of LANDSAT-4 Thematic Mapper data 20 p3208 N84-30377
GOODENOUGH, J. B.
Ada compiler validation summary report: ROLM Ada compiler, version 4.42 V-002
[AD-A136732] 10 p1557 N84-20199
GOODER, S. T.
Electromagnetic propulsion test facility
[NASA-TM-83568] 07 p0961 N84-16229
GOODHART, C. L.
Temperature effects of cement joints in ceramic-stack resonators
[AD-A137435] 10 p1486 N84-19716
GOODING, J. L.
Weathered stony meteorites from Victoria Land, Antarctica, as possible guides to rock weathering on Mars 13 p2085 N84-23509
GOODKNIGHT, C. S.
Uranium anomalies in Wyoming and parts of adjacent states. National Uranium Resource Evaluation
[DE83-005353] 06 p0866 N84-15638
GOODMAN, B.
Research in knowledge representation for natural language understanding
[AD-A134102] 05 p0726 N84-14765
GOODMAN, B. M.
The climatic impact of volcanic activity 22 p3624 N84-32963
GOODMAN, D. W.
Chemical modification of chemisorptive and catalytic properties of nickel
[DE84-002046] 05 p0855 N84-14308
Correlations between surface structure and catalytic reactivity for alkane hydrogenolysis over nickel
[DE84-002610] 07 p0971 N84-16292
Model catalytic studies using metal single crystals
[DE84-010267] 18 p2612 N84-27850
GOODMAN, H. M.
Applications of the AVE-SESAME data sets to mesoscale studies
[NASA-CR-3819] 21 p3446 N84-31866
GOODMAN, I. R.
A unified approach to modeling and combining of evidence through random set theory
[AD-P002880] 13 p1978 N84-22841
GOODMAN, J. B.
Accuracy of stable schemes for 2D scalar conservation laws
[DE84-004989] 08 p1222 N84-17976
GOODMAN, J. J.
Dynamical relaxation in stellar systems 13 p2072 N84-23426
GOODMAN, J. M.
On the utilization of ionospheric diagnostics in the single-site location of HF emitters 06 p0870 N84-15661
H. F. Frequency management by frequency sharing as assisted by models updated in real-time
[AD-A139896] 15 p2321 N84-24936
GOODMAN, J. R.
Modeling material failure with a vectorized routine 10 p1561 N84-20226
GOODMAN, J. W.
Optical computing research
[AD-A143994] 23 p3825 N84-34258
GOODMAN, L. S.
Fast ion atomic spectroscopy
[DE84-006720] 15 p2404 N84-25432
Electric-dipole moment of CaF by molecular-beam, laser-RF, double-resonance study of Stark splittings
[DE84-005413] 15 p2405 N84-25439
GOODMAN, M. M.
Nuclear-medicine
[DE84-000346] 04 p0571 N84-13759
GOODMAN, N.
Influences on group productivity. 2: Factors inherent in the person. A bibliographic synopsis
[AD-A131015] 06 p0891 N84-15790
Distributed database control and allocation. Volume 1: Frameworks for understanding concurrency control and recovery algorithms
[AD-A138891] 14 p2203 N84-24223
Distributed database control and allocation. Volume 2: Performance analysis of concurrency control algorithms
[AD-A138892] 14 p2203 N84-24224
Distributed database control and allocation. Volume 3: Distributed database system designer's handbook
[AD-A138893] 14 p2203 N84-24225
GOODMAN, P. S.
The human side of robotics: Results from a prototype study on how workers react to a robot
[AD-A133438] 06 p0894 N84-15805
GOODMAN, S. J.
Lightning Observations above and below clouds 24 p3927 N84-34856
Storm severity detecion (RF) 24 p3927 N84-34857
GOODRICH, W. D.
Shuttle orbiter boundary layer transition at flight and wind tunnel conditions 01 p0023 N84-10149
GOODSON, B. E.
Exciplex ionic dissociation in non-polar solvent induced by multipolar salt complexes
[AD-A140919] 17 p2620 N84-26766
GOODSON, S. W.
Near-optimal finite solutions to the 3 and 4 step discrete evasion games
[AD-A136811] 10 p1574 N84-20314
GOODWIN, A. J.
Space station needs, attributes, and architectural options: Space station program cost analysis
[NASA-CR-173696] 18 p2803 N84-27790
GOODWIN, A. R.
High reliability semiconductor lasers for data links between satellites 24 p3904 N84-34724
GOODWIN, D. A.
Dynamic spacecraft simulators in military space ground systems
[AD-P002159] 14 p2139 N84-23825
GOODWIN, E. J.
Computer design and optimization of the active rotary flux compressor
[DE84-010089] 19 p3030 N84-29215
GOODWIN, F. K.
Determination of optimum fin planform and airfoil section for minimizing fin hinge moment
[AD-A134523] 07 p0948 N84-16151
Preliminary method for estimating hinge moments of all-movable controls
[AD-A139726] 15 p2264 N84-24597
GOODWIN, J. G., JR.
Promotion effects on the synthesis of higher alcohols
[DE84-009916] 20 p3166 N84-30109
GOODWIN, J. H.
Geology of carbonate aggregate resources of Illinois, Illinois mineral notes
[PB83-251140] 04 p0565 N84-13725
GOODWIN, J. P.
A revised STONEMAN for distributed Ada (trademark) support environments
[AD-A137940] 11 p1707 N84-21127
GOODWIN, R. D.
Hydrogen sulfide provisional thermophysical properties from 188 to 700 K at pressures to 75 MPa
[PB84-122704] 08 p1127 N84-17329
GOODWIN, R. W.
Modern control techniques for accelerators
[DE84-012521] 21 p3494 N84-32140
GOODYEAR, M. J.
Tests on a CAST 7 two-dimensional airfoil in a streamlining test section
[NASA-CR-172291] 08 p1097 N84-17136
Engineering changes to the 0.1m cryogenic wind tunnel at Southampton University
[NASA-CR-172430] 22 p3538 N84-32397
GOODYER, M. J.
Performance measurements of a pilot superconducting solenoid model core for a wind tunnel magnetic suspension and balance system
[NASA-CR-172243] 03 p0338 N84-12192
Computation of imaginary-side pressure distributions over the flexible walls of the test section insert for the 0.3-M transonic cryogenic tunnel
[NASA-CR-172363] 18 p2785 N84-27678
GOODYKOONTZ, J. H.
Inverted velocity profile semi-annular nozzle jet exhaust noise experiments
[NASA-TM-83525] 04 p0595 N84-13924
Fluid shielding of high-velocity jet noise
[NASA-TP-2259] 06 p0907 N84-15894
Low frequency noise in a quiet, clean, general aviation turbofan engine
[NASA-TM-83520] 10 p1575 N84-20320
Velocity and temperature characteristics of two-stream, coplanar jet exhaust plumes
[NASA-TM-83730] 19 p2965 N84-28790
GOOGERDY, A.
A perturbation method for self-coupled combustion-instability problems 15 p2317 N84-24904
GOORAY, A. M.
Numerical calculations of turbulent recirculating heat transfer beyond two-dimensional back-steps and sudden pipe expansions 03 p0374 N84-12439
GOORJIAN, P. M.
Unsteady transonic aerodynamic and aeroelastic calculations about airfoils and wings
[NASA-TM-85986] 21 p3324 N84-31092
Improvements in the accuracy and stability of algorithms for the small-disturbance and full-potential equations applied to transonic flows
[NASA-TM-85970] 22 p3530 N84-32350
GOOSMAN, D. R.
Fabry-Perot velocimetry techniques: Is Doppler shift affected by surface-normal direction?
[DE83-015902] 02 p0224 N84-11472
GOOSSENS, P. C.
The standardization of bibliographic data 11 p1751 N84-21432
GOOSSENS, R. E.
Inventory of Flemish forests using medium-scale Color Infrared (CIR) photography and CIR orthophotoplans as base for a forest management data bank 03 p0400 N84-12614
GOPALAKRISHNAN, S.
Critical speed of centrifugal pumps 21 p3418 N84-31677
GOPALAN, K.
An ancient depleted mantle source for Archean crust in Rajasthan, India 11 p1679 N84-20957
GOPALAN, T. V.
A technical note on evaluation of dampers 10 p1507 N84-19859
GOPHER, D.
The workload book: Assessment of operator workload to engineering systems
[NASA-CR-166596] 23 p3810 N84-34160
GORA, Y. P.
Individual distinctions of human sleeping respiration at altitude of 4200 meters 20 p3256 N84-30663
GORADIA, C.
Optimal design of GaAs-based concentrator space solar cells for 100 AMO, 80 deg C operation 19 p3044 N84-29312
GORAN, W. D.
An interactive soils information system. Users manual
[AD-A133480] 06 p0935 N84-16078
GORBUNOV, A. D.
Finding the roots of the transcendental equations in the problem of determining the thermal conductivity of a plate under heterogeneous boundary conditions
[BLL-M-35602-(5828.4)] 19 p3082 N84-29554

GORBUNOV, V. V.
Physiological assessment of capacity for processing increasing amounts of visual information by human operators 17 p2740 N84-27398
GORBUNOVA, I. V.
Dicrepancies in kinematic parameters of earthquakes according to observations by regional and world networks of stations 17 p2702 N84-27213
GORBUNOVA, N. F.
The study of the dynamics of the electron fluxes and spectra during solar minimum 24 p3994 N84-35276
GORDAN, A. L.
Centaur D-1A guidance/software system
[NASA-TM-83552] 07 p0962 N84-16234
GORDANINEJAD, F.
Transverse shear effects in bimodular composite laminates
[AD-A130261] 01 p0031 N84-10195
Forced vibration of Timoshenko beams of multimodular materials
[AD-A130372] 01 p0095 N84-10617
Transverse shear effects in bimodular composite laminates 15 p2309 N84-24854
Deflection and vibration in shear-deformable beams and liminated composites made of bimodular and multimodular materials 16 p2503 N84-26066
GORDEEV, S. K.
The reciprocal influence of functional groups in substitution reactions on the diamond surface
[CSIR-TRANS-1685] 01 p0152 N84-11000
GORDEYEV, V. F.
Thermal effect of pulsed laser irradiation on the surface of metallic mirrors 24 p3869 N84-34519
GORDIYENKO, S. P.
Investigation of the thermophysical properties of high-melting materials with the aid of a complex of instruments
[NASA-TM-77402] 10 p1453 N84-19491
GORDIYETS, B. F.
Unbalanced infrared radiation and natural laser effect in atmospheres of Venus and Mars 19 p2975 N84-28858
GORDON, B. M.
Uses of synchrotron radiation
[DE83-014431] 03 p0416 N84-12720
GORDON, C. G.
Vibration challenges in microelectronics manufacturing 10 p1508 N84-19870
GORDON, D. E.
Development of fatigue and crack propagation design and analysis methodology in a corrosive environment for typical mechanically-fastened joints. Volume 1: Phase I documentation
[AD-A136414] 09 p1331 N84-18691
Durability methods development, volume 7
[AD-A142400] 20 p3128 N84-29865
GORDON, G. A.
An estimate of HF/VHF surface-wave communication link reaches in the West German forest environment
[AD-A131262] 01 p0067 N84-10441
GORDON, H.
Hadron-hadron collider group
[DE83-010704] 03 p0437 N84-12865
Review of properties of various types of calorimeters: High luminosity and high energy 06 p0911 N84-15917
Detectors at 20 TeV and detector considerations for a high luminosity hadron-hadron machine 06 p0911 N84-15920
GORDON, H. T.
The DOE passive solar commercial buildings program: Preliminary results of performance evaluation 16 p2515 N84-26141
GORDON, J. D.
Magnetic mirror fusion power systems
[DE84-002799] 07 p1077 N84-17005
GORDON, J. G., II
Surface-enhanced Raman spectroscopy of electrochemically characterized interfaces. Relations between Raman scattering intensity and surface coverage for simple anionic adsorbates
[AD-A139054] 13 p1957 N84-22721
GORDON, J. I.
A review of optical data analysis related to the modelling of visible and optical infrared atmospheric properties
[AD-A131486] 01 p0106 N84-10687
GORDON, L.
High-current railgap studies
[DE83-013859] 02 p0290 N84-11898
GORDON, L. C.
Economic assessment of nine geothermal direct use applications
[DE84-006475] 12 p1844 N84-22021
GORDON, L. H.
MOD-2 wind turbine development
[NASA-TM-83460] 04 p0557 N84-13670
GORDON, M. D.
Adaptive subject description in document retrieval 22 p3675 N84-33298
GORDON, R.
Calculation of aerodynamic characteristics of wings with thickness and camber by a new method based on the modified vortex lattice method
[TAE-493] 16 p2436 N84-25640
GORDON, R. G.
Optimization of transparent electrode for solar cell and chemical vapor deposition of amorphous silicon
[DE83-017780] 12 p1843 N84-22014
GORDON, S. E.
Using comparison-based methods for predicting and designing
[AD-P003364] 18 p2913 N84-28477
GORDON, W. B.
Two methods for calculating the physical optics field
[AD-A139116] 14 p2224 N84-24347
GORDON, W. E.
Review of radio-frequency, nonlinear effects on the ionosphere
[DE84-003832] 08 p1188 N84-17739
GORDON, W. J.
An operator calculus for surface and volume modeling 12 p1869 N84-22180
GORDON, W. L.
Innovative concepts for photovoltaic applications
[DE84-005247] 11 p1674 N84-20923
Particle environment
[NASA-CR-173888] 22 p3661 N84-33210
GORE, P. J. W.
Sedimentology and invertebrate paleontology of Triassic and Jurassic Lacustrine deposits, Culpeper Basin, northern Virginia 13 p2014 N84-23064
GOREE, J. G.
Fracture behavior of unidirectional boron/aluminum composite laminates
[NASA-CR-3753] 06 p0797 N84-15196
Shear-lag analysis of notched laminates with interlaminar debonding
[NASA-CR-3798] 14 p2119 N84-23697
Opening of an interface flaw in a layered elastic half-plane under compressive loading
[NASA-TM-86282] 22 p3611 N84-32877
GOREE, P. F.
F/A-18 AN/APG-65 radar case study report (IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A142103] 19 p3007 N84-29057
AN/TPQ-36 and AN/TPQ-37 firefinder radars case study report (IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Research and Maintainability) study
[AD-A142104] 19 p3007 N84-29058
AN/APN-128 Lightweight Doppler Navigation System (LDNS) case study report (IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A142072] 20 p3127 N84-29860
F-15 AN/APG-63 radar case study report IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A142071] 20 p3129 N84-29873
F-16 APG-66 fire control radar case study report IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A142075] 20 p3129 N84-29874
R and M (Reliability and Maintainability) program review elements document (IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A142073] 20 p3199 N84-30322
T700 engine case study report. IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A143104] 21 p3343 N84-31211
GORELKIN, O. S.
Abrasive properties of ferroalloys
[BLL-M-35416-(5828.4)] 07 p0973 N84-16306
GORENSTEIN, P.
Research relative to high energy astrophysics
[NASA-CR-173878] 22 p3678 N84-33315
GORET, J.
Chemical and electrochemical properties in molten alkaline hydroxides. 2: Oxidising/reducing reactions of oxygen
[BLL-RISLEY-TR-4775-(9091.9F)] 01 p0036 N84-10227
Chemical and electrochemical properties in molten alkaline hydroxides. 3: Oxide and acid complexes of some metallic cations
[BLL-RISLEY-TR-4858-(9091.9F)] 08 p1123 N84-17299
GORET, P.
Balloon test project: Cosmic Ray Antimatter Calorimeter (CRAC)
[NASA-TM-77461] 23 p3750 N84-33772
GORETZKI, H.
Experience in surface analysis applied to technical material problems 06 p0815 N84-15303
Grain boundary segregation and cavity formation in creep embrittled Cr-Mo steels 06 p0817 N84-15320
GORGOL, J. F.
The effect of property changes on jet fuel producibility and cost 14 p2106 N84-23632
GORGOSHIDZE, A. N.
Thermoscopic study of diffraction current distribution 22 p3565 N84-32583
GORGUCCI, E.
Information from bias measurement 18 p2888 N84-28327
GORKOY, V.
Cosmonaut Berezovoy's memoirs on 211-day spaceflight 21 p3347 N84-31231
GORKUSHA, S. V.
Geophysical and tectonic characteristics of Mongolian-Okhotsk seismic zone 17 p2701 N84-27206
GORLA, R. S. R.
Effects of unsteady free stream velocity and free stream turbulence on stagnation point heat transfer
[NASA-CR-3804] 16 p2486 N84-25943
GORLEY, T.
Eyebolts for lift suspension
[NPL-DMA(A)-70] 20 p3195 N84-30292
GORLOV, N. V.
Influence of choice of pair-interaction potential on results of modelling an edge dislocation in Alpha-iron
[BLL-M-35682-(5828.4)] 22 p3553 N84-32499
GORMAN, R. W.
A study of the rechargeability of the Red Camel lead-acid battery between +20 deg C and -30 deg C
[AD-A137635] 11 p1646 N84-20764
GORNEY, D. J.
Electron energy deposition in the middle atmosphere
[AD-A139122] 14 p2175 N84-24032
GORNIK, E.
Tunable far infrared semiconductor sources
[AD-A137777] 11 p1647 N84-20767
GOROBTSOV, V. G.
Structure and properties of amorphous powder material after explosive loading 24 p3870 N84-34526
GOROCH, A. K.
Rain rate climatologies over marine regions
[AD-A144066] 23 p3802 N84-34109
GORODETSKIY, A. Y.
Image identification by method of integral fluctuations 22 p3568 N84-32601
GORODKIN, R. G.
The flow of an electrorheological suspension in cells of different geometries
[RAE-TRANS-2111] 11 p1646 N84-20760
GORRELL, W. T.
Detailed flow measurements in casing boundary layer of 429-meter-per-second-tip-speed two-stage fan
[NASA-TP-2052] 19 p2966 N84-28795
GORRIE, R. G.
A special bounded sequential procedure
[AD-A130403] 01 p0129 N84-10847
GORSHE, R.
Design, construction and long life endurance testing of cathode assemblies for use in microwave high-power transmitting tubes
[NASA-CR-168112] 01 p0069 N84-10451
GORSHKOV, A. S.
Investigation of statistical characteristics of random signals in nonlinear medium 21 p3485 N84-32086
GORYACHEVA, G. A.
Action of penetrating radiation on radio parts
[AD-A142107] 19 p3007 N84-29059
GORYACHEVA, T. G.
Role of feedback in regulation of ideomotor movements 18 p2898 N84-28396
GORYACHUK, O. L.
Television system for monitoring target position in laser thermonuclear fusion experiments 13 p1969 N84-22781
GOSHGARIAN, B. B.
Deuterium isotope effects in HMX thermochemical mechanisms: Decomposition, deflagration, and combustion 13 p1950 N84-22680

GOSIEWSKI, M.
Flow of a simple viscoelastic fluid in a thin lubricating oil
[ISSN-0208-5658] 19 p3019 N84-29145

GOSLEE, J. W.
Adaptive microwave reflector 08 p1112 N84-17235
Microwave reflector characterization using simple instruments in EVA 08 p1112 N84-17236

GOSLINE, R. M.
DSS 13 microprocessor antenna controller 16 p2479 N84-25897

GOSLING, J. T.
Multiple spacecraft observations of interplanetary shocks: Characteristics of the upstream ULF turbulence 03 p0470 N84-13097
Electron heating at interplanetary shocks 03 p0470 N84-13098
Plasma properties of driver gas following interplanetary shocks observed by ISEE-3 03 p0474 N84-13123
Investigation of laminar shocks
[DE84-010074] 20 p3242 N84-30582
Ion reflection, gyration, and dissipation at supercritical shocks
[DE84-011353] 20 p3303 N84-30980

GOSNOLD, W. D.
Inventory of geothermal resources in Nebraska
[DE84-009679] 20 p3229 N84-30518

GOSS, L. D.
Observations of the upper troposphere and lower stratosphere using the urbana coherent-scatter radar
[NASA-CR-174594] 03 p0407 N84-12664
The Urbana MST radar, capabilities and limitations 17 p2691 N84-27136

GOSS, W.
Laser pulse detection method and apparatus
[NASA-CASE-NPO-16030-1] 15 p2339 N84-25037

GOSSARD, A. C.
Advances in GaAs bistable optical devices 14 p2233 N84-24394
Room temperature optical nonlinearities in GaAs multiple quantum wells 14 p2235 N84-24408

GOSSARD, E.
Case study of layer fine structure and turbulence within stable elevated layers
[PB84-158666] 14 p2182 N84-24076

GOSSARD, E. E.
Aircraft hazard assessment from a clear-air radar and meteorological tower study of gravity wave events
[PB83-257139] 05 p0710 N84-14650
Analysis of some cloud and frontal events recorded during the Boulder Upslope Cloud Observation Experiment (BUCOE) of 1982
[PB84-179662] 20 p3249 N84-30622

GOSSELIN, O.
Modeling of elastic wave propagation by finite difference and finite element methods 23 p3777 N84-33944

GOTHA
The magnetic state of the Earth at epoch 1885.0
[NASA-TM-77342] 09 p1343 N84-18774

GOTO, M.
Fatigue damage of an annealed 0.45 percent C steel under fully-reversed tension-compression cycling 07 p0983 N84-16367
Synthesis of axion systems for the three-valued predicate logic by means of the special four-valued logic
[AD-P002358] 14 p2193 N84-24149

GOTO, N.
CO2 forecasting and control: A mathematical approach
[DE84-013454] 21 p3449 N84-31882

GOTO, S.
Atomic hydrogen beam probing with spectroscopic technique 11 p1736 N84-21324

GOTT, P. G.
Catalog of selected heavy duty transport energy management models
[NASA-CR-168299] 05 p0761 N84-14991

GOTTBRATH, J. H.
Photodigitizing procedures
[AD-A143589] 22 p3599 N84-32793

GOTTHARDT, M. R.
Bell System lightguide cable interconnection equipment, central office to customer premises 11 p1720 N84-21219

GOTTLIEB, A.
Comparing the NYU Ultracomputer with other large-scale parallel processors
[DE84-006043] 12 p1878 N84-22239

GOTTLIEB, D.
Spectral methods for time dependent partial differential equations
[NASA-CR-172241] 01 p0128 N84-10837
The efficient use of spectral and finite difference methods for the solution of certain hyperbolic and parabolic problems
[AD-A139477] 14 p2214 N84-24299
Applications of spectral methods to turbulent magnetofluids in space and fusion research
[NASA-CR-173665] 17 p2757 N84-27505
Spectral methods for compressible flow problems
[NASA-CR-172395] 20 p3279 N84-30816

GOTTLIEB, J. J.
Initial decay of flow properties of planar, cylindrical and spherical blast waves
[UTIAS-TN-244] 03 p0371 N84-12416
An analytical and numerical study of the interaction of rarefaction waves with area changes in ducts. Part 1: Area reductions
[UTIAS-272] 11 p1651 N84-20780
Lateral dispersion of a high-energy ion beam in a scattering medium
[UTIAS-278] 14 p2222 N84-24331
Analytical and numerical study of the flow in a shock tube with an area change at the diaphragm section
[UTIAS-TN-255] 21 p3399 N84-31563

GOTTSCHALK, G.
Analysis of incentives for productivity-enhancing investment
[AD-P002770] 13 p2053 N84-23317

GOTTWALD, M.
Galactic gamma radiation and the interstellar medium
[MPE-179] 10 p1597 N84-20469

GOTWALS, E.
Sortie duration and helicopter component failures (an empirical study)
[AD-A134745] 08 p1095 N84-17122

GOUDEY, D. A.
The application of convolutional codes to continuous phase modulated communication channels 21 p3381 N84-31457

GOUDREAU, G. L.
Element Choices for Explicit and Implicit Nonlinear Finite-Element Computation. The Ispra Courses on Structural Dynamics: Lecture notes
[DE83-013041] 01 p0134 N84-10880
Efficient large-scale finite-element computations in a CRAY environment
[DE83-014946] 06 p0896 N84-15818
Large scale computations
[DE84-002763] 07 p1055 N84-16836

GOUGH, D. D.
On the identification of normal modes of oscillation from observations of the solar periphery
[NASA-CR-173667] 19 p3123 N84-29844

GOUGH, P. S.
Continuum modeling of stick charge combustion 13 p1947 N84-22662
Multi-dimensional, multiphase flow analysis of flamespreading in a stick propellant charge 13 p1948 N84-22663

GOUGH, R. A.
Study of in-orbit test techniques for multibeam satellites
[LL3-17] 16 p2456 N84-25748

GOULARD, R.
Multiangular scanning absorption techniques for three dimensional combustion diagnostics
[AD-A133811] 05 p0648 N84-14263

GOULD, G. R.
Modular approach for satellite communication ground terminals
[NASA-CR-168327] 07 p0991 N84-16425

GOULD, J. M.
A dc to dc converter
[NASA-CASE-MFS-25430-1] 07 p0995 N84-16453

GOULD, R. D.
Laser velocimeter measurements and analysis in turbulent flows with combustion, part 2
[AD-A131882] 03 p0372 N84-12421
Turbulence characteristics of an axisymmetric reacting flow 11 p1611 N84-20548

GOULD, R. W.
Capabilities of the NRCC/NAE flight impact simulator facility
[AD-A130849] 06 p0784 N84-15136
Degradation of the bird impact resistance of polycarbonate
[AD-P003193] 17 p2591 N84-26606
Comparison of bullet resistance of new and aged polycarbonate
[AD-P003198] 17 p2592 N84-26611

GOULD, W.
The effects of vegetation and soil hydraulic properties on passive microwave sensing of soil moisture: Data report for the 1982 fiels experiments
[NASA-TM-85106] 07 p1023 N84-16633
Microwave radiometer experiment of soil moisture sensing at BARC test site during summer 1981
[NASA-TM-86056] 14 p2168 N84-23989

GOULDING, F.
Operation of a computer aided drafting system: Improvement, results and hopes
[DE84-005176] 11 p1708 N84-21134

GOULDING, F. S.
High resolution, high rate X-ray spectrometer
[DE84-011116] 20 p3190 N84-30266

GOUNET, H.
Contribution to the study of light aircraft propeller noise
[AD-B073101] 16 p2554 N84-26386

GOURASH, F.
Road load simulator tests of the Gould phase 1 functional model silicon controlled rectifier ac motor controller for electric vehicles
[NASA-TM-83497] 10 p1529 N84-20016

GOURDIN, K. N.
An analysis of national aviation policy with respect to America's strategic airlift capability
[AD-A141308] 18 p2946 N84-28679

GOURDIN, W. H.
Hugoniot measurements on unsintered metal powders
[DE83-016364] 02 p0196 N84-11277
Prediction of microstructural modification in dynamically consolidated metal powders
[DE83-015690] 02 p0196 N84-11278
Dynamic consolidation of ceramic powders: Practicalities, problems, and prospects
[DE84-003744] 08 p1138 N84-17404
Analysis of localized microstructural changes in dynamically consolidated metal powders
[DE84-006298] 20 p3154 N84-30026

GOURLEY, W. E.
Development of lightweight commercial aircraft windshields with new high strength glasses
[AD-P003190] 17 p2590 N84-26603

GOUTELARD, C.
Adaptive protection of detecion systems operating by spread spectrum 06 p0868 N84-15652
Contending with jamming in decametric waves in an adaptive system of all-directional antennas 06 p0868 N84-15653

GOUTTEBROZE, P.
The Mg 2 lines in A dwarf stars 24 p3974 N84-35170

GOVAERTS, W.
Completely continuous multipliers from L sub 1 (G) into L sub infinity (G) 22 p3636 N84-33047

GOVE, L.
FINDIF: A software package to create synthetic seismograms by finite differences
[AD-A138904] 14 p2183 N84-24081

GOVE, N. B.
Open systems interconnection for the defence community 11 p1750 N84-21426

GOVER, A.
A study of the angular radiation of Smith-Purcell radiation
[AD-A130095] 01 p0141 N84-10925

GOVINDAN, T. R.
Annulus wall boundary layer development in a compressor stage, including the effects of tip clearance 07 p0957 N84-16207
A space-marching method for the Navier-Stokes equations for internal flows 21 p3397 N84-31550

GOWAN, J. G.
Replication of high power laser mirrors
[AD-D011140] 22 p3656 N84-33177

GOWDEY, J. C.
IPACS electronics: Comments on the original design and current efforts at Langley Research Center 03 p0345 N84-12240

GOZANI, J.
Conjugate gradient coupled with multigrid for an indefinite problem
[NASA-CR-172379] 19 p3082 N84-29558

GOZZINI, A.
Critical slowing-down in microwave absorptive bistability 14 p2237 N84-24429

GRABBE, C. L.
A model for chorus associated electrostatic bursts
[NASA-CR-174489] 03 p0432 N84-12832
Generation of broadband electrostatic noise by ion beam instabilities in the magnetotail
[NASA-CR-173643] 17 p2728 N84-27362

GRABER, K. A.
Condensation heat transfer of steam on a single horizontal tube
[AD-A132245] 04 p0533 N84-13508

GRABITZ, G.
On transit time instability in liquid jets
[NASA-TM-77455] 10 p1490 N84-19742

GRABKE, H. J.
Influence of the tramp elements on the properties of steel, metallurgical processes for controlling the contents of tramp elements
[BMFT-FB-T-83-189] 07 p0977 N84-16331
GRABMAIER, J. G.
The S-Web technique for high-speed growth of Si sheets 18 p2937 N84-28629
A high-speed characterization technique for solar silicon 18 p2939 N84-28641
GRABOWSKIY, A.
Closed vessel combustion studies of stick propellant 13 p1948 N84-22665
GRACEY, C.
Feedback laws for fuel minimization for transport aircraft 11 p1617 N84-20579
GRACHEV, A. I.
Well-developed convective cloud cover as source of internal waves 18 p2865 N84-28187
GRACOVETSKY, S.
Cervical spline analysis for ejection injury prediction
[AD-A131081] 01 p0114 N84-10739
GRAD, H.
Kinetic theory of gases, magneto-fluid dynamics and their application
[AD-A137082] 10 p1585 N84-20390
Kinetic theory of gases, magneto-fluid dynamics and their application
[AD-A139616] 15 p2332 N84-25007
GRADY, C. A.
Line profile variability in winds of OB stars 06 p0936 N84-16085
GRADY, D.
Mechanics of fracture under high-rate stress loading
[DE83-013770] 03 p0390 N84-12544
GRADY, D. E.
Microstructural effects on wave propagation in solids
[DE83-012609] 01 p0096 N84-10628
Stress-wave experiments on selected crustal rocks and minerals
[DE84-001613] 04 p0563 N84-13714
Dynamic fragmentation of ferroelectric ceramics using the torsional Kolsky bar
[DE84-003726] 09 p1289 N84-18415
Energy and statistical effects in the dynamic fragmentation of metal rings
[DE84-005458] 14 p2128 N84-23760
Fragmentation under impulsive stress loading
[DE84-006341] 19 p3037 N84-29263
GRADY, M.
One solution to STAR-1100 in a dual machine environment
[DE83-017160] 11 p1704 N84-21109
GRAETER, R.
Measures for materials conservation in aero-engine construction 23 p3702 N84-33468
GRAEWE, E.
Development of a 6-component balance for the cryogenic range
[BMFT-FB-W-84-022] 20 p3191 N84-30270
GRAF, A. J.
The effect of property changes on jet fuel producibility and cost 14 p2106 N84-23632
GRAF, C. P.
Real-time CGSI (Computer Generated Synthesized Imagery)-single pipeline processor
[AD-P003480] 21 p3512 N84-32247
GRAF, J. E.
Chemically rechargeable battery
[NASA-CASE-NPO-16024-1] 13 p2007 N84-23020
GRAFAREND, E. W.
Deformation 07 p1030 N84-16683
Spacetime operational geodesy 07 p1031 N84-16684
Geodetic reference frames 07 p1031 N84-16685
Global dynamics 07 p1031 N84-16686
Global displacement models 1 07 p1031 N84-16687
Global displacement models 2 07 p1031 N84-16688
Physical geodesy 10 p1520 N84-19950
Stochastic models for point manifolds 16 p2504 N84-26072
GRAFF, C. J.
Spread spectrum data networks 13 p1977 N84-22832
GRAFFI, H.
Investigation of the earthquake behavior of the research reactor FRJ-2 (DIDO)
[JUEL-SPEZ-222] 12 p1848 N84-22047
GRAFOVA, T. I.
Allomonades: New group of vibrionaceae family microorganisms 17 p2742 N84-27410
GRAFTON, S. B.
Wind-tunnel free-flight investigation of a model of a forward-swept-wing fighter configuration
[NASA-TP-2230] 08 p1105 N84-17184
Low-speed wind-tunnel study of the high-angle-of-attack stability and control characteristics of a cranked-arrow-wing fighter configuration
[NASA-TM-85776] 14 p2110 N84-23654
GRAHAM, A. D.
NERF: A computer program for the numerical evaluation of reliability functions-reliability modeling, numerical methods and program documentation
[AR-00-984] 16 p2500 N84-26048
GRAHAM, C.
Task validation for studies on fragmented sleep and cognitive efficiency under stress
[AD-A130260] 01 p0116 N84-10753
GRAHAM, C. D., JR.
Annealing effects in ferromagnetic amorphous alloys
[AD-A136843] 10 p1480 N84-19534
GRAHAM, D. R.
Deregulating the airlines: An economic analysis
[PB83-250019] 04 p0617 N84-14070
GRAHAM, G. H.
Dynamic-stall regulation of the Darrieus turbine
[DE83-017994] 03 p0321 N84-12097
GRAHAM, J.
User centered system design
[AD-A136131] 09 p1364 N84-18907
GRAHAM, J. A.
Influence of nitrogen dioxide on xenobiotic metabolism in animals
[PB83-239723] 02 p0265 N84-11743
Pulmonary dosimetry of nitrogen dioxide in animals and man
[PB83-243394] 03 p0414 N84-12711
Integration of species sensitivity and dosimetry data in the extrapolation of ozone and nitrogen dioxide health data from animals to man
[PB84-195312] 22 p3631 N84-33010
GRAHAM, J. L., JR.
Mobilization and defense management technical reports series. Management implications of industrial support capabilities for Space Shuttle operations
[AD-A137460] 10 p1438 N84-19390
GRAHAM, K. J.
An investigation of experimental techniques for obtaining particulate behavior in metallized solid propellant combustion 13 p1947 N84-22659
An investigation of experimental techniques for obtaining particulate behavior in metallized solid propellant combustion
[AD-A141044] 18 p2808 N84-27826
GRAHAM, M.
Preliminary airworthiness evaluation of the Rutan Aircraft Factory (RAF), Incorporated LONG-EZ airplane
[AD-A140765] 17 p2606 N84-26695
GRAHAM, M. H.
Notions of dependency satisfaction
[AD-A135303] 08 p1211 N84-17902
GRAHAM, P. H.
Investigation of organic oxidizers for high performance low flame temperature gas generator applications 13 p1950 N84-22676
High performance, low flame temperature nitramine propellant development 20 p3141 N84-29946
GRAHAM, R.
Self-pulsing and chaos in inhomogeneously broadened single-mode lasers 14 p2239 N84-24438
GRAHAM, R. A.
Specific surface measurements of shock-modified powders
[DE83-016230] 02 p0196 N84-11275
Chemistry of shock compression: A bibliography
[DE84-002192] 05 p0651 N84-14279
Energy release and transformation of shock-modified zirconia upon annealing to 1550 deg C
[DE83-017801] 05 p0755 N84-14954
X-ray diffraction line-broadening studies on shock-loaded TiO-2 and Al2O-3
[DE83-016161] 05 p0755 N84-14955
Densification of shock-treated aluminum nitride and aluminum oxide
[DE84-003251] 07 p0968 N84-16273
Metallic microwave conductivity in shock-loaded rutile
[DE84-002174] 08 p1235 N84-18075
X-ray line broadening studies on aluminum nitride, titanium carbide and titanium diboride modified by high pressure shock loading
[DE84-003257] 10 p1463 N84-19553
Portable reflectance spectrometer
[NASA-CASE-NPO-13556-1] 23 p3749 N84-33766
GRAHAM, R. W.
A review of NASA combustor and turbine heat transfer research
[NASA-TM-83541] 05 p0631 N84-14146
GRAHAM, T.
Fan blade shake test results for the 40- by 80-foot/80- by 120-foot wind tunnel
[NASA-TM-85859] 17 p2618 N84-26753
GRAHAM, T. N. W.
A reassessment of the measurement uncertainty of the XT-90 twin T dual admittance bridge
[AD-A139253] 16 p2483 N84-25923
GRAHAM, W. B.
Raman spectroscopy of shocked water
[DE84-002468] 07 p0972 N84-16295
GRAHAM, W. G.
Simultaneous electron capture and excitation in ion-atom collisions
[DE83-005799] 06 p0910 N84-15907
GRAHAM, W. R.
The electronic structure of C(2x2)S/Fe(100): S 3p-level dispersions and linewidths. Revision
[AD-A138124] 12 p1797 N84-21725
Momentum dependent line shapes in photoemission
[AD-A137988] 12 p1913 N84-22461
GRAHLMAN, R. B.
Methodology for benefit analysis of CAD/CAM (Computer-Aided Design/Computer-Aided Manufacturing) in USN shipyards
[AD-A138398] 12 p1882 N84-22270
GRAHN, R. W.
Evaluation of selected commercial construction equipment for bomb damage repair
[AD-A140907] 17 p2611 N84-26714
GRAHNSTEDT, S.
Attention, performance, and sustained activation in military air traffic controllers 11 p1698 N84-21076
GRAIF, E.
Parameter estimation for the Euler-Bernoulli-beam
[NASA-CR-172417] 22 p3645 N84-33107
GRAMANN, W.
Production oriented 3-5 epitaxy
[BMFT-FB-T-83-286] 13 p2048 N84-23290
GRAMS, G. W.
In-situ light scattering techniques for determining aerosol size distributions and optical constants
[AD-A131363] 01 p0148 N84-10970
GRANA, D. C.
Vertical shaft windmill
[NASA-CASE-LAR-12923-1] 03 p0383 N84-12493
GRANAT, L.
A system for measuring fluxes of trace gases to and from soil and vegetation with a chamber technique
[CM-61] 07 p1028 N84-16662
Sulfate in precipitation. A presentation of data from the European Air Chemistry Network
[CM-64] 15 p2367 N84-25199
GRANATA, R. D.
Corrosion control through a better understanding of the metallic substrate/organic coating/interface
[AD-A139086] 13 p1961 N84-22739
GRANATH, B.
Information technique 1982: Underwater technique
[FOA-C-30296-E1,E2,E3] 07 p1085 N84-17058
GRANATSTEIN, V. L.
Study of gain, bandwidth, and tunability of a millimeter-wave free-electron laser operating in the collective regime
[AD-A139285] 14 p2151 N84-23884
A high-gain 35 GHz free-electron laser amplifier experiment
[AD-A139593] 14 p2151 N84-23886
GRANBERG, I. G.
Influence of velocity shear on character of flow of incompressible stratified fluid around obstacle 17 p2707 N84-27237
GRAND, A. F.
A research study of the assessment of escape impairment by irritant combustion gases in postcrash aircraft fires
[FAA-CT-84-16] 22 p3533 N84-32366
GRAND, D.
Mixed convection and stratification phenomena in liquid metals 06 p0842 N84-15488
GRANDAL, B.
Preliminary results from the Heating Rocket (HERO) project: In situ measurements of ionospheric modifications using sounding rockets 05 p0636 N84-14183
GRANDBOIS, E. R.
Metal-chelate polymers: Structural/property relationships as a function of the metal ion
[AD-A140205] 16 p2471 N84-25839
GRANDT, A. F., JR.
Semielliptical cracks along holes in plates and lugs
[AD-A130786] 01 p0096 N84-10622
Initiation, growth, and coalescence of small fatigue cracks
[AD-A133935] 05 p0892 N84-14545

Three-dimensional measurements of fatigue crack closure
[NASA-CR-175366] 08 p1169 N84-17616
Evaluation of the crack growth gage concept as an individual aircraft tracking device, volume 2
[AD-A136933] 10 p1428 N84-19341
Three-dimensional measurements of fatigue crack closure
[NASA-CR-173679] 18 p2852 N84-28110

GRANEAU, P.
Technical analyses and related planning assistance in supporting of DOE's superconducting magnetic energy storage program
[DE83-012005] 01 p0139 N84-10909

GRANETT, D.
Vibrating-chamber levitation systems
[NASA-CASE-NPO-16142-1] 07 p1070 N84-16948
Gravity enhanced acoustic levitation method and apparatus
[NASA-CASE-NPO-16147-1] 07 p1070 N84-16949

GRANEY, R. E.
An optimization methodology for multi-criteria comparison using response surface methods and mathematical programming
[AD-A141169] 18 p2926 N84-28555

GRANGER, D. A.
Macrosegregation in aluminum alloy ingot cast by the semicontinuous direct chill method
24 p3883 N84-34600

GRANGER, J. L.
Shuttle Imaging Radar: A/B sensors
07 p0987 N84-16395

GRANIER, M. J.
Use of self assessment in estimating levels of skill retention
[AD-P003345] 18 p2911 N84-28465

GRANKIN, M. A.
Variation of carrier concentration caused by band structure reconstruction in tellurium and tin-doped Al(x)Ga(1-x)As solid solutions 17 p2636 N84-26861

GRANKOVSKII, V. I.
Special features of the formation of a bed of polydispersed free-flowing materials
[BLL-M-35674-(5828.4)] 22 p3592 N84-32747

GRANLUND, S.
F-harmonic measure in space
04 p0576 N84-13794

GRANNIS, P.
Hadron-hadron collider group
[DE83-010704] 03 p0437 N84-12865

GRANSER, D.
Liquid fuel atomization and mixing in a high velocity air stream 15 p2291 N84-24746

GRANT, B.
Electromagnetic forces related to flash-lamp failures in the Nova/Novette amplifiers
[DE83-016524] 02 p0227 N84-11491

GRANT, J.
Logical optimization for database uniformization
[NASA-CR-173836] 21 p3518 N84-32262

GRANT, J. A.
Fluvial drainage systems: Margaritifer Sinus and Agyre (NC, NE) quadrangles, Mars 13 p2083 N84-23497

GRANT, J. B.
The singularity expansion method applied to plane wave scattering from a lossy slab on a conducting half-space
[DE83-012942] 01 p0068 N84-10442
Mathematical and physical scaling of triggered lightning
[DE84-002480] 05 p0709 N84-14646
Discussion of moment method codes with emphasis on aperture coupling
[DE84-005116] 11 p1644 N84-20751

GRANT, J. E.
Shell shock structural code, fourth edition
[DE84-009549] 18 p2853 N84-28118

GRANT, J. T.
Proceedings of the 5th Symposium on applied surface analysis
[AD-A140744] 17 p2768 N84-27576

GRANT, L.
Measurement and modeling of the optical scattering properties of crop canopies 12 p1831 N84-21934
Measurement and modeling of the optical scattering properties of crop canopies 12 p1833 N84-21948

GRANT, N. J.
Structures and properties of rapidly solidified 9Cr-1Mo steel
[DE84-001276] 04 p0499 N84-13276
Irradiation response in titanium-modified austenitic stainless steels prepared by rapid-solidification processing. Part 3. A model for the effect of titanium addition
[DE84-001296] 04 p0500 N84-13281
Irradiation response in titanium-modified austenitic stainless steels prepared by rapid-solidification processing. Part 2. Dual-ion irradiations
[DE84-001297] 04 p0500 N84-13282
Irradiation response in titanium-modified austenitic stainless steels prepared by rapid-solidification processing. Part 1: Microstructural response to neutron irradiation
[DE84-001298] 04 p0501 N84-13283
Miniaturized disk bend tests of neutron-irradiated path A type alloys
[DE84-001277] 04 p0549 N84-13618
Studies of metastable microcrystalline and glassy alloys
[AD-A139941] 15 p2297 N84-24787

GRANT, P. A.
Imaging X-ray spectrometer
[NASA-CASE-GSC-12682-1] 23 p3749 N84-33765

GRANT, R. W.
Theoretical and experimental investigation of heterojunction interfaces
[AD-A135896] 09 p1395 N84-19111

GRANT, W. B.
Remote measurements of ozone, water vapor and liquid water content, and vertical profiles of temperature in the lower troposphere
[NASA-CR-173208] 07 p1033 N84-16704
Spectrum resource assessment in the 5650-5925 MHz
[PB84-127430] 09 p1305 N84-18530

GRANTHAM, C.
Evaluating multiple coordinated windows for programming workstations 13 p2027 N84-23146

GRANTHAM, D. D.
Winds: Chapter 6, 1983 revision. Handbook of Geophysics and Space Environments
[AD-A132018] 03 p0410 N84-12683
Handbook of geophysics and space environments. Chapter 16: Water vapor, precipitation, clouds and fog, revised
[AD-A144176] 24 p3934 N84-34901

GRANTHAM, W. D.
Simulator study of flight characteristics of a large twin-fuselage cargo transport airplane during approach and landing
[NASA-TP-2183] 03 p0337 N84-12190
Large aircraft handling qualities
11 p1615 N84-20570

GRANTZ, A.
Tectonic evolution of the Arctic continental margin in the Beaufort and Chukchi Seas: Evidence from seismic reflections 14 p2164 N84-23958

GRANVILLE, P. S.
Mixing-length formulations for turbulent boundary layers over arbitrarily rough surfaces
[AD-A140560] 17 p2667 N84-27009

GRANZOW, M.
POPSAT: A candidate satellite system for solid Earth applications and sciences. Preliminary feasibility study. Volume 1: Summary
[ESA-CR(P)-1882-VOL-1] 17 p2614 N84-26735
POPSAT: A candidate satellite system for solid Earth applications and sciences. Preliminary feasibility study. Volume 2: Development program
[ESA-CR(P)-1882-VOL-2] 17 p2614 N84-26736

GRARD, R.
Influence of wake and photoemission on electric field measurements with a double probe on GEOS-2
08 p1116 N84-17261
Shot noise generated by gas impact during a cometary fly-by 08 p1118 N84-17273
Interactions between a large body and its environment in a low polar orbit
[AD-P002111] 16 p2523 N84-26197

GRAS, G.
On the Z sub 2 extensions of an imaginary quadratic field 13 p2031 N84-23173

GRASDALEN, G. L.
Infrared measurements of AFGL (Air Force Geophysics Laboratory) sources
[AD-A133553] 06 p0938 N84-16098

GRASMAN, J.
The exit problem for a stochastic dynamical system in a domain with almost everywhere characteristic boundaries
[CWI-AM-R8403] 19 p3092 N84-29635

GRASS, H. M.
Atmospheric scintillation at 94 GHz
[AD-A134743] 08 p1145 N84-17452

GRASSI, G.
GAME: An interactive graphic system for automatic mesh generation
[CISE-2211] 20 p3275 N84-30790

GRASSIA, J.
Direct comparison of intuitive, quasi-rational and analytical cognition
[AD-A130273] 01 p0116 N84-10751

GRASSL, H.
Long wave radiance to space and net flux at the surface 10 p1535 N84-20056
Quantities of interest to climatology and atmospheric physics, volume 2 16 p2529 N84-26239
Temperature and humidity profiles in the atmosphere from spaceborne lasers: A feasibility study
17 p2716 N84-27292
Differential absorption lidar in space for temperature and humidity profiles in the atmosphere
24 p3907 N84-34748

GRASSMANN, W.
Rounding errors in some recursive methods used in computational probability
[PB84-124734] 09 p1379 N84-19013

GRATTON, M.
Alternate fuels combustion research
[AD-A138575] 13 p1965 N84-22769
Fuel character effects on performance of small gas turbine combustion systems 15 p2290 N84-24738

GRATZER, L. B.
Integrated Application of Active Controls (IAAC) technology to an advanced subsonic transport project: Current and advanced act control system definition study, volume 1
[NASA-CR-165631-VOL-1] 19 p2967 N84-28802
Integrated Application of Active Controls (IAAC) technology to an advanced subsonic transport project: Current and advanced act control system definition study. Volume 2: Appendices
[NASA-CR-165631-VOL-2] 19 p2967 N84-28803

GRAU, J. K.
Ada (trademark) design language concerns
[AD-P003431] 20 p3271 N84-30763

GRAVELLE, A.
New methods of excitation, acquisition and data reduction about unsteady wind tunnel tests
14 p2099 N84-23599

GRAVES, C. P.
Secondary flows and losses in a turbine cascade
07 p0956 N84-16203

GRAVES, F.
Design and development of military petroleum hoseline system
[AD-A134374] 07 p0960 N84-16222

GRAVES, R. S.
Transport properties of polycrystalline Ni3Al
[DE84-001969] 05 p0656 N84-14313
Apparent thermal conductivity measurements by an unguarded technique
[DE84-001964] 05 p0685 N84-14503
Development of advanced thermal insulation for appliances
[DE84-013132] 22 p3594 N84-32763

GRAVES, S. F.
Computer program to simulate the lateral-directional response of a high performance aircraft digital electronic flight control system
[AD-A144480] 24 p3856 N84-34447

GRAVES, S. R.
Repair techniques for celion/LARC-160 graphite/polyimide composite structures
[NASA-CR-3794] 17 p2617 N84-26752

GRAWE, J.
Encapsulated multifunction corrosion inhibitive primer
[AD-A144311] 24 p3889 N84-34626

GRAY, A. G.
Substitution and conservation technology for chromium 23 p3703 N84-33473

GRAY, D. L.
Multiyear subcontractor selection criteria analysis
[AD-A135638] 09 p1397 N84-19126

GRAY, E.
Deployment of a secondary concentrator to increase the intercept factor of a dish with large slope errors
18 p2875 N84-28252

GRAY, E. M.
International Telecommunication Standards: Issues and Implications for the '80's
[PB83-241471] 03 p0363 N84-12366

GRAY, E. P.
The structure of the internal wave Mach front generated by a point source moving in a stratified fluid
[AD-A133775] 05 p0680 N84-14470

GRAY, G. K.
A guide to macro and micro computer performance evaluation
[AD-A140127] 15 p2389 N84-25329

GRAY, H. L.
Minimum distance estimation of mixture model parameters: Asymptotic results and simulation comparisons with maximum likelihood
[AD-A130426] 01 p0136 N84-10889

Center of Excellence for Applied Mathematical and Statistical Research in support of development of multicrop production monitoring capability
[E84-10062] 10 p1520 N84-19953

GRAY, H. R.
P/M superalloys: A troubled adolescent?
[NASA-TM-83623] 17 p2622 N84-26785

GRAY, J.
METLIB-2: A program library for calculating and plotting atmospheric and oceanic fields
[PB84-205434] 21 p3450 N84-31890

GRAY, J. L.
Two-dimensional computer simulation of EMVJ and grating solar cells under AMO illumination
19 p3044 N84-29313

GRAY, J. W.
Analysis and acoustooptical measurements of bulk and surface acoustic wave fields
[NASA-CR-173271] 07 p1069 N84-16945

GRAY, P. E.
Thermal conductivity behavior of boron carbides
[NASA-CR-173165] 09 p1316 N84-18600

GRAY, R.
Effect of surface doping on the oxidation of chromia former alloys
[DE84-013390] 22 p3667 N84-33247

GRAY, R. J.
Electrochemical etching of titanium-alloy castings
[DE84-000244] 04 p0501 N84-13286
Microstructural analysis for series 300 stainless steel sheet welds and tensile samples
[DE84-008513] 22 p3605 N84-32837

GRAY, R. M.
Statistical data processing, system modeling and reliability
[AD-A135208] 08 p1223 N84-17984
Data compression
[AD-A138541] 13 p2024 N84-23124

GRAY, T. A.
Progress on ultrasonic flaw sizing in turbine-engine rotor components: Bore and web geometries
[DE83-018081] 03 p0333 N84-12167
Analytic diffraction corrections to ultrasonic scattering measurements
[DE83-018080] 03 p0431 N84-12825
Measurements of ultrasonic scattering from near-surface flaws
[DE83-017693] 03 p0431 N84-12827

GRAY, V.
Publications of the JPL Solar Thermal Power Systems Project, 1976 to 1983
[NASA-CR-173464] 12 p1842 N84-22011
Evaluation of the HARDMAN comparability methodology for manpower, personnel and training
[NASA-CR-173733] 18 p2915 N84-28485

GRAY, W. H.
Using PAFEC as a preprocessor for COSMIC/NASTRAN
[DE83-017179] 03 p0421 N84-12755
Using PAFEC as a preprocessor for COSMIC/NASTRAN 06 p0858 N84-15593

GRAYSON, M. A.
Aging of polymeric materials
[AD-A132250] 04 p0506 N84-13318

GREATREX, R.
Kinetics and mechanisms of thermolytic interconversions of boron hydrides
[AD-A143525] 22 p3547 N84-32455

GREBENIK, V. M.
Calculation of the life of components of metallurgical equipment from the parameter of failure probability
[BLL-M-35351-(5826.4F)] 04 p0545 N84-13594

GREBENNIKOV, S. A.
Comparative characteristics of erythron reactions to hypoxic hypoxia, immobilization and high-intensity stationary magnetic field 07 p1046 N84-16785

GREBENNIKOV, V. A.
Specifics of structure formation in nitrides synthesized by laser action on metals 12 p1784 N84-21640

GREBER, I.
Dilution jet experiments in compact combustor configurations 11 p1611 N84-20545
Dilution jets in accelerated cross flows
[NASA-CR-174717] 19 p2966 N84-28794

GREBOWSKY, J. M.
Interaction of the space shuttle orbiter with the ionospheric plasma 08 p1117 N84-17265

GRECHIKHIN, G. N.
Evaluation of some hemodynamic parameters of pilots during flights 15 p2376 N84-25256

GRECHO, G. M.
Gravitational orientation of the orbital complex, Salyut-6--Soyuz
[NASA-TM-77299] 07 p0961 N84-16228

GRECO, C. C.
Study to establish cost projections for production of Redox chemicals
[NASA-CR-167881] 02 p0241 N84-11580

GRECO, M. V.
Productivity measurement in software engineering
[PB83-227330] 01 p0160 N84-11054

GREDEL, J.
European plans for handling off-line tasks of the ERS-1 23 p3784 N84-33997

GREEGOR, R. B.
Multiple scattering effects in EXAFS (Extended X-ray Absorption Fine Structure): Comparison between theory and experiment for Pt metal
[AD-A142199] 19 p2989 N84-28941

GREELEY, R.
Impact experiments in viscous fluid media
[NASA-CR-173196] 07 p1040 N84-16745
Martian surface properties
[NASA-CR-173197] 07 p1091 N84-17091
Abrasion by aeolian particles: Earth and Mars
[NASA-CR-3788] 11 p1628 N84-20654
Feasibility study to conduct windblown sediment experiments aboard a space station
[NASA-CR-175434] 12 p1776 N84-21586
Wind abrasion on Venus: A means for experimental investigations 13 p2076 N84-23455
Aeolian processes on Venus
13 p2076 N84-23456
Morphology of fresh craters on Ganymede and the origin of pedestal craters 13 p2078 N84-23466
The 1950 sulfur flow of Mauna Loa: Considerations for Io 13 p2080 N84-23479
Velocities of windblown particles in saltation: Venus, Earth, and Mars 13 p2082 N84-23491
Desert pavement study at Amboy, California
13 p2082 N84-23492
Pinacate-Gran Desierto Region, Mexico: SIR-A data analysis 13 p2088 N84-23526
Radar-visible wind streaks in the Altiplano of Bolivia
13 p2088 N84-23527

GREEN, A. E. S.
Ultraviolet OH emissions in H2-air diffusion flames
13 p1942 N84-22629

GREEN, C.
Synthesis of efficient structures for concurrent computation
[AD-A135892] 09 p1368 N84-18930

GREEN, D.
The detectability of repetitive, periodic impulses
[AD-A132744] 05 p0713 N84-14675
Ultraviolet laser triggering of the 6 MV PBFA-2 gas switch
[DE84-014004] 23 p3755 N84-33802

GREEN, D. F., JR.
Software Implemented Fault-Tolerant (SIFT) user's guide
[NASA-TM-86289] 23 p3817 N84-34199

GREEN, D. J.
Research on microstructurally developed toughening mechanisms in ceramics
[AD-A130394] 01 p0049 N84-10316
Processing science to increase the reliability of ceramics
[AD-A143207] 22 p3559 N84-32539

GREEN, D. R.
Feasibility of thermal NDE methods for Naval thermal spray coatings
[DE84-001463] 06 p0855 N84-15569

GREEN, E. L.
Signal processor for remote optical interferometric sensors
[AD-D011045] 19 p3105 N84-29726

GREEN, F. C.
Status of auto carto at the Defense Mapping Agency
[AD-A131235] 01 p0101 N84-10653

GREEN, H. E.
Development of partially fluorinated resin apex seals
[NASA-CR-174706] 22 p3603 N84-32828

GREEN, J.
Raft thermocline thermal storage
[DE83-011962] 02 p0218 N84-11431

GREEN, J. L.
A potential control method for thermal plasma measurements on the DE-1 spacecraft
08 p1119 N84-17276
Range gate dependence of specular echoes
17 p2684 N84-27088
Estimating unbiased horizontal velocity components from ST/MST radar measurements: A case study
17 p2687 N84-27110
Characteristics of Sunset radar
17 p2690 N84-27131
Simultaneous remote sensing of atmospheric turbulence by radar optical means: A comparison
23 p3775 N84-33932

GREEN, K. E.
Ceramic tube materials and processing development
[PB84-151653] 14 p2135 N84-23795

GREEN, L.
Modular stellarator reactor: A Fusion power plant
[DE84-002268] 07 p1077 N84-17001
Equations of state of PBX-9404, LX-07, and RX-26-AF detonation products at pressures above detonation pressure
[DE84-002465] 09 p1290 N84-18424

GREEN, M. A.
Design conditions for fail safe quenching of a high current density superconducting solenoid with a shorted secondary circuit
[LBL-14859] 01 p0069 N84-10449
Cryogenic testing of the TPC superconducting solenoid
[DE84-000528] 04 p0527 N84-13467
Forced two-phase cooling of the TPC superconducting solenoid
[DE83-017749] 04 p0613 N84-14049
Field generated within the SSC magnets due to persistent currents in the superconductor
[DE84-006629] 12 p1915 N84-22476

GREEN, M. I.
General purpose magnetic-measurement data-acquisition system
[DE84-001101] 05 p0759 N84-14982

GREEN, M. W.
The use of a formal simulator to verify a simple real time control program
[AD-A131732] 03 p0420 N84-12745
Development and analysis of the Software Implemented Fault-Tolerance (SIFT) computer
[NASA-CR-172146] 09 p1371 N84-18953
Investigation, development, and evaluation of performance proving for fault-tolerant computers
[NASA-CR-166008] 15 p2385 N84-25307
The use of a formal simulator to verify a simple real time control program 15 p2388 N84-25322

GREEN, P.
Comparison of CRT (Cathode Ray Tube) antireflection filters
[PB84-202753] 22 p3590 N84-32742

GREEN, P. B.
Advances in spiral antenna technology
[AD-P003411] 19 p3015 N84-29115

GREEN, P. E.
Distributed estimation in the MIT/LL (Massachusetts Institute of Technology/Lincoln Laboratory) DSN (Distributed Sensor Networks) test-bed
[AD-P002897] 13 p1980 N84-22856

GREEN, P. H.
Solid-State Division
[DE84-000296] 04 p0613 N84-14045

GREEN, R. E., JR.
Acoustic emission determination of deformation mechanisms leading to failure of naval alloys, volume 1
[AD-A135387] 08 p1171 N84-17626
Acoustic emission determination of deformation mechanisms leading to failure of naval alloys, volume 2
[AD-A135388] 08 p1171 N84-17627

GREEN, R. F.
Quasars as probes of the intergalactic medium
24 p3972 N84-35154

GREEN, R. M.
Experimental and modeling study of engine knock
[DE84-006134] 22 p3606 N84-32844

GREEN, R. N.
Multi-scale analyses of meteorological conditions affecting Pan American World Airways flight 759
[PB83-222562] 01 p0006 N84-10040
A robust pseudo-inverse spectral filter applied to the Earth Radiation Budget Experiment (ERBE) scanning channels
[NASA-TM-85781] 15 p2370 N84-25219

GREEN, R. O.
Management information system for engineering
[DE84-001655] 05 p0760 N84-14984

GREEN, T. A.
Transient electron transport in gases
[DE83-009188] 02 p0291 N84-11906

GREENBAUM, E.
Immobilized chloroplast-ferredoxin-hydrogenase system for the simultaneous photoproduction of hydrogen and oxygen
[DE83-015703] 02 p0205 N84-11333
Photosynthetic water splitting, phase 1
[DE84-006847] 14 p2124 N84-23729

GREENBAUM, S. G.
Ion conduction poly(vinyl acetate)
[AD-A142249] 19 p3096 N84-29660
NMP, electrical relaxation, and high pressure electrical conductivity in ion conducting polymers
[AD-A143202] 22 p3546 N84-32451

Electrically conducting poly(vinyl acetate)
[AD-A143199] 22 p3559 N84-32538
GREENBERG, D. P.
Intersection of parametric surfaces using lookup tables 12 p1870 N84-22185
GREENBERG, H. S.
Development of deployable structures for large space platform systems. Volume 1: Executive summary
[NASA-CR-170913] 01 p0028 N84-10175
Development of deployable structures for large space platforms. Volume 2: Design development
[NASA-CR-170914] 01 p0028 N84-10176
Development of Test Article Building Block (TABB) for deployable platform systems 08 p1111 N84-17226
GREENBERG, J. M.
Proceedings of the Workshop on Laboratory and Observational Infrared Spectra of Interstellar Dust
[ISBN-0-902553-29-1] 16 p2569 N84-26485
Evolution of interstellar grains
16 p2569 N84-26486
The 3 micron ice band 16 p2570 N84-26494
Experiments on chemical and physical evolution of interstellar grain mantles 16 p2570 N84-26495
Laboratory and observational infrared spectra of interstellar dust
[ROE-OR-12] 18 p2947 N84-28683
Evolution of interstellar grains
18 p2947 N84-28684
The 3 micron ice band 18 p2948 N84-28692
Experiments on chemical and physical evolution of interstellar grain mantles 18 p2948 N84-28693
Ice in comet dust 18 p2949 N84-28702
A comprehensive ultraviolet extinction study: Grain model and grain evolution implications
24 p3982 N84-35232
GREENBERG, W.
Applied mathematics of transport theory
[DE84-004135] 10 p1590 N84-20422
Applied mathematics of transport theory
[DE84-011498] 20 p3282 N84-30838
GREENBLATT, M.
Ionic conductivity in lithium hexaoxometallate solid solutions
[AD-A131842] 03 p0346 N84-12250
Ionic conductivity of Li7BiO6
[AD-A135386] 08 p1124 N84-17307
Ionic conductivity in lithium hexaoxometallate solid solutions 11 p1744 N84-21379
GREENE, B. R.
EPA (Environmental Protection Agency) model development for stable plume impingement on elevated terrain obstacles
[PB84-130491] 10 p1533 N84-20038
GREENE, D. E.
Quantification of subjective ratings through conjoint measurement analysis
[AD-A138810] 13 p1930 N84-22554
GREENE, F. A.
The perception of saturation and hue on colour cathode ray tubes
[AD-A143645] 23 p3811 N84-34167
GREENE, H. W.
A voltmeter for remotely sensing high voltages
[AD-D011046] 19 p3027 N84-29199
GREENE, J. M.
Behavior of orbits of two coupled oscillators
[DE84-013379] 22 p3659 N84-33197
GREENE, M.
Pinhole/coronograph pointing control system integration and noise reduction analysis
[NASA-CR-171152] 23 p3750 N84-33773
GREENE, N. E.
DATATRIEVE used in a control-system database
[DE83-014187] 01 p0162 N84-11064
GREENE, R. F., JR.
LDEF thermal measurements system (P0003)
15 p2274 N84-24654
GREENE, R. L.
Zeeman studies of shallow donors and excitons in quantum wells
[AD-A144487] 24 p3967 N84-35121
GREENE, W. H.
Buckling loads of stiffened panels subjected to combined longitudinal compression and shear: Results obtained with PASCO, EAL, and STAGS computer programs
[NASA-TP-2215] 07 p1015 N84-16585
GREENHALGH, D. I.
The advisability of competitive international satellites
[AD-A140188] 16 p2456 N84-25750
GREENHALGH, S.
The 2-dimensional inextensible lifting membrane airfoil, theory and experiment
[AD-A135251] 08 p1099 N84-17147
GREENHALL, C. A.
Time interval errors of a Flicker-noise generator
16 p2480 N84-25902
GREENHOUSE, D. S.
Experimental studies relating environmental lighting and flicker to visual fatigue in VDT operators
[DE83-016316] 03 p0419 N84-12738
GREENLEE, D. H.
The characteristics of iris-fed millimeterwave rectangular microstrip patch antennas
[PB84-134634] 11 p1648 N84-20775
GREENLEES, G. W.
High-sensitivity laser spectroscopy with atoms from a cooled helium jet
[DE84-000614] 04 p0540 N84-13554
GREENMAN, M. J.
Oblique vortex induced vibration of cylinders
[BU-295] 15 p2350 N84-25104
GREENO, J. G.
Problem solving and reasoning
[AD-A138889] 14 p2186 N84-24099
GREENSPAN, H. P.
Flow in a tapered centrifuge
[DE84-012553] 21 p3401 N84-31573
GREENSPAN, M. A.
Investigation of short-pulse electron-beam propagation
[AD-A140383] 16 p2556 N84-26396
GREENSPAN, M. E.
Energization of ions by oblique double layers
04 p0561 N84-13700
GREENSPAN, S.
User centered system design
[AD-A136131] 09 p1364 N84-18907
GREENSTADT, E. W.
Scale lengths in quasi-parallel shocks
[NASA-TM-85109] 03 p0407 N84-12663
Ongoing data reduction, theoretical studies and supporting research in magnetospheric physics
[NASA-CR-173419] 13 p2010 N84-23039
GREENSTEIN, J. S.
Human-computer interactions and decision behavior
[AD-A139759] 15 p2384 N84-25299
GREENSTEIN, L. J.
Multipath outage performance of digital radio receivers using finite-tap adaptive equalizers
15 p2324 N84-24955
GREENWALD, M.
Hydrogen pellet injection into Alcator C
[DE83-016878] 04 p0609 N84-14018
GREENWOOD, D. P.
Adaptive compensation for atmospheric turbulence effects on optical propagation 15 p2325 N84-24960
GREENWOOD, L. R.
Neutron measurements and radiation damage calculations for fusion materials studies
[DE83-014790] 04 p0608 N84-14011
Comparison of measured and calculated helium production in nickel using newly evaluated neutron cross sections for (59)Ni
[DE84-000565] 04 p0611 N84-14035
GREENWOOD, N. N.
Kinetics and mechanisms of thermolytic interconversions of boron hydrides
[AD-A143525] 22 p3547 N84-32455
GREENWOOD, T. D.
Thermoset-thermoplastic aromatic polyamide containing N-propargyl groups
[NASA-CASE-LAR-12723-2] 13 p1962 N84-22746
GREENWOOD, T. F.
Calculation of shuttle base heating environments and comparison with flight data 01 p0023 N84-10145
GREENWOOD, W.
Engineering services in support of the AFGL sounding rocket program
[AD-A131929] 03 p0340 N84-12211
GREER, A. L.
Atomic transport in metallic glasses
[AD-A136363] 09 p1282 N84-18373
GREER, W. R., JR.
Contractor 'Hungriness' and the relative profitability of DoD business
[AD-P002796] 13 p2057 N84-23342
GREFF, E.
Wind energy concentration within vortex flow fields and its utilization for the generation of energy, phase 1
[BMFT-FB-T-83-157] 05 p0700 N84-14591
GREGG, C. T.
Rapid microbial identification by circular intensity differential scattering
[DE84-013894] 22 p3629 N84-32993
GREGOIRE, H.
Fracture mechanics formulas on microcomputers
[CETIM-100960] 21 p3424 N84-31722
GREGOREK, G. M.
Results of an experimental program investigating the effects of simulated ice on the performance of the NACA 63A415 airfoil with flap
[NASA-CR-168288] 07 p0947 N84-16145
GREGORY-SMITH, D. G.
Secondary flows and losses in a turbine cascade
07 p0956 N84-16203
Secondary flow theory in straight and annular cascades 19 p3022 N84-29163
Secondary loss prediction methods
19 p3022 N84-29164
GREGORY, C. Z.
Vibration Control Of Space Structures VCOSS A: High and low-authority hardware implementations
[AD-A139931] 15 p2281 N84-24702
GREGORY, D. A.
Apparatus for measuring charged particle beam
[NASA-CASE-MFS-25641-1] 18 p2929 N84-28575
GREGORY, G. L.
Airborne measurements of launch vehicle effluent of STS-2 launch on November 12, 1981 at Cape Canaveral, Florida
[NASA-TP-2260] 09 p1342 N84-18764
GREGORY, J. C.
Interaction of atomic oxygen with solid surfaces at orbital altitudes (A0114) 15 p2271 N84-24636
The study of efficient low-power diffraction designs
[NASA-CR-171142] 21 p3405 N84-31598
GREGORY, J. G.
The use of computer ISA (Instruction Set Architectures) and software standards at Westinghouse Defense Electronics Center
[AD-P003552] 21 p3334 N84-31156
GREGORY, M. A.
CLFE2D: A generalized plane strain finite element program laminated composites subject to mechanical and hygrothermal loading
[NASA-CR-173507] 14 p2157 N84-23921
Prediction of crack extension direction in unidirectional composites
[VPI-E-84-27] 24 p3878 N84-34572
GREGORY, S. T.
The implementation and use of Ada on distributed systems with high reliability requirements
[NASA-CR-175413] 12 p1876 N84-22228
GREGORY, W. S.
High-efficiency particulate air filter behavior at high-speed flows
[DE84-014137] 22 p3595 N84-32769
GREIDANUS, F. J. A. M.
An experimental study of praseodymium intermetallic compounds at low temperatures
[DE83-704748] 24 p3884 N84-34612
GREIF, R.
Unsteady heat transfer during laminar flame quenching
[DE84-006301] 23 p3715 N84-33550
GREIG, J. R.
A transmission line bridge for the diagnostics of plasma channels
[AD-A139286] 14 p2228 N84-24362
Theory of beam channel hydrodynamics
[AD-A139595] 14 p2229 N84-24365
Channel cooling by turbulent convective mixing
[AD-A139724] 15 p2410 N84-25466
REB (Relativistic Electron Beam)/channel tracking experiments in low pressure ammonia
[AD-A140209] 16 p2555 N84-26394
A study of long aerosol initiated laser induced air breakdown plasmas
[AD-A143967] 23 p3828 N84-34279
GREIMENN, L. F.
Simplified methods for the inelastic analysis of stiffened shells
[DE83-016518] 02 p0232 N84-11525
GREINER, D.
The problem of tracking charged particles in the cores of high energy jets in a high rate environment
06 p0911 N84-15916
GREINER, J. M.
Motivating managers: A guide to performance targeting and performance-based pay in state and local governments
[PB83-237834] 02 p0301 N84-11978
GREINER, R. W.
The use of aquatic plants to purify waste water in recreational waters
[REPT-226] 21 p3437 N84-31805
GREITZER, E. M.
Introduction to unsteady flow in turbomachines
16 p2489 N84-25962
Stability of pumps and compressors
16 p2489 N84-25963
GREITZER, F. L.
Decision and display analysis in a simple surveillance problem
[AD-P002886] 13 p1979 N84-22847
GRELLIER, M.
Observation of the Earth in the middle infrared
[ESA-TT-790] 03 p0402 N84-12629

GREMLI, C.
Surge prediction in industrial compressors
16 p2489 N84-25969
GREN, P.
The effect of post weld heat treatment on welds in steel structures
[VTT-RR-217] 07 p1013 N84-16570
GRENANDER, U.
Aspects of pattern theory
[AD-A136506] 09 p1381 N84-19022
GRENFELL, T. C.
Remote sensing of the marginal ice zone during Marginal Ice Zone Experiment (MIZEX) 83
23 p3772 N84-33910
Surface based brightness temperatures of sea ice in the Bering and Greenland Seas
23 p3773 N84-33918
GRENHAM, W. G.
Investigation of pulsed performance of an electrothermal hydrazine thruster, using a special see-through thruster
[AD-A137408] 10 p1451 N84-19473
GRENICH, A. F.
Electrostatic safety with explosion suppressant foams
[AD-A137503] 10 p1424 N84-19314
GRENIE, Y.
Multidirectional composites in ballistic and aerospace vehicles
[SNIAS-832-430-102] 16 p2458 N84-25759
GRESHO, P. M.
Flow-through boundary conditions for time-dependent, buoyancy-influenced flow simulations using low order finite elements
[DE83-010256] 02 p0218 N84-11430
Further studies on equal-order interpolation for Navier-Stokes
[DE84-000916] 04 p0534 N84-13512
Another attempt to overcome the bent element blues
[DE84-007785] 21 p3400 N84-31571
GRESS, S. G., JR.
A simulation model to evaluate aircraft survivability and target damage during offensive counterair operations
[AD-A141324] 18 p2793 N84-27728
GREWAL, G. S.
Sensor noise and Kalman filter for aided inertial navigation system
[AD-A143360] 22 p3534 N84-32372
GREWEN, J.
Information Package: Windpower utilization
23 p3785 N84-34005
GREWING, M.
Optical and ultraviolet observations of FK Comae stars
24 p3978 N84-35198
GRIBBLE, R. F.
Electrical design of a high current density air-core reversed-field pinch ZTP
[DE84-004321] 10 p1586 N84-20395
Poloidal field system design for the ZT-H reversed field pinch experiment
[DE84-004328] 10 p1586 N84-20396
Coaxial slow source: A quasi-static FRC formation concept
[DE84-007476] 14 p2230 N84-24377
GRIBBLE, R. P.
An acoustical imaging system for the inspection of solid rocket motors
[AD-A139482] 14 p2156 N84-23918
GRIBKOVSKIY, V. P.
Nonlinear transmission of laser radiation by ZnTe monocrystals at helium temperatures
17 p2636 N84-26863
Passage of strong electromagnetic pulse through semiconductor in external magnetic field
18 p2824 N84-27930
GRICE, G. K.
Review of the use of the thermodynamic diagram and its functions (with the application towards AFOS)
[PB84-120815] 09 p1350 N84-18822
GRICE, J. V.
Description of a method and artifact for estimating volumetric uncertainty of coordinate measuring machines
[DE84-002017] 04 p0539 N84-13545
GRICE, K. R.
Thermal wave imaging for non-destructive evaluation of subsurface cracks in opaque materials
17 p2676 N84-27046
GRIDER, K. V.
Seeker systems simulation, present capability and future technology
21 p3350 N84-31254
GRIDIN, L. A.
Dynamics of functional status and subjective sensations in process of heat adaptation 21 p3456 N84-31931
GRIDNEV, V. N.
Effect of thermocyclic processing on phase composition and structure of VT22 alloy 23 p3709 N84-33511
GRIEFENDORF, D.
Secondary ion emission from adsorbate layers on polycrystalline Ni 06 p0815 N84-15306
GRIEGER, I.
Interactive creation of instructions for interactive graphic analysis (INGA)
[ISD-300] 15 p2390 N84-25337
Interactive creations and modification of chinese characters
[ISD-299] 15 p2417 N84-25513
GRIEM, H. R.
Observation of magnetic fields in laser-produced plasma using the Zeeman effect
[DE84-002742] 06 p0921 N84-15989
Spectroscopic measurements of the Laser-HANE plasma
[AD-A138685] 13 p1995 N84-22947
GRIER, N. T.
Dilute plasma coupling currents to a high voltage solar array in weak magnetic fields
[NASA-TM-83687] 15 p2283 N84-24708
GRIER, R.
Videodisc premastering facility: Technical evaluation
[PB84-135821] 11 p1661 N84-20840
GRIES, W. H.
A new non-destructive and standardless method for the thickness determination of thin films by XRF measurement 06 p0815 N84-15308
GRIESBACH, G.
M.A.N. heat pumps in industry and communities, and their efficiency 23 p3747 N84-33755
GRIESE, H.
Research activities. Part 1: Statements
[ISBN-3-7983-0959-0] 20 p3321 N84-31082
GRIESS, J. C.
Electrochemical etching of titanium-alloy castings
[DE84-000244] 04 p0501 N84-13286
GRIEVE, G.
CCRS proposal for evaluating LANDSAT-4 MSS and TM data
[E84-10096] 10 p1522 N84-19966
LANDSAT-4 MSS interband registration
10 p1523 N84-19969
LANDSAT-MSS multitemporal registration
10 p1523 N84-19970
Evaluating LANDSAT-4 MSS and TM data
[E84-10157] 17 p2709 N84-27249
GRIFFIN, A. R.
Development of a command control and communications system for light aircraft
[AD-A139474] 14 p2140 N84-23831
GRIFFIN, C. F.
Development of an advanced composite aileron for the L-1011 transport aircraft
[NASA-CR-3517] 18 p2810 N84-27836
GRIFFIN, C. R.
APQ-102 imaging radar digital image quality study
[NASA-CR-171738] 08 p1143 N84-17435
GRIFFIN, D. C.
Indirect processes in electron-ion scattering
[DE84-002381] 05 p0745 N84-14897
GRIFFIN, E. J.
The multistate reflectometer
[AD-A139318] 15 p2407 N84-25448
GRIFFIN, E. L.
Standards and integrated avionic digital system architecture
[AD-P003561] 21 p3336 N84-31166
GRIFFIN, F. J.
Passive exposure of Earth radiation budget experiment components (A0147) 15 p2278 N84-24684
GRIFFIN, F. P.
Review of Stirling-engine mathematical models
[DE83-016454] 02 p0301 N84-11974
Effects of pressure-drop correlations on Stirling-engine predicted performance
[DE83-017279] 03 p0384 N84-12501
GRIFFIN, G. R.
Interactive voice technology: Variations in the vocal utterances of speakers performing a stress-inducing task
[AD-A135932] 09 p1302 N84-18514
GRIFFIN, K. E.
Experimental measurements of wake characteristics of low aspect-ratio delta and flapped-plate planforms
[AD-A130398] 01 p0004 N84-10026
Wake characteristics and interactions of the Canard/wing lifting surface configuration of the X-29 forward-swept wing flight demonstrator
[AD-A133188] 06 p0783 N84-15126
GRIFFIN, L. D.
R and M (Reliability and Maintainability) parameter analysis document IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A137328] 10 p1503 N84-19826
GRIFFIN, O. M.
The breaking of ocean surface waves
[AD-A142356] 20 p3250 N84-30629
GRIFFIN, S. A.
Design of advanced technology maneuvering aircraft models for the National Transonic Facility
14 p2098 N84-23590
Design study of test models of maneuvering aircraft configurations for the National Transonic Facility (NTF)
[NASA-CR-3827] 23 p3696 N84-33422
GRIFFIN, S. F.
Electron donor-acceptor quenching and photoinduced electron transfer for coumarin dyes
[AD-A136345] 09 p1394 N84-19105
GRIFFIN, T. B.
NOSTRUM: A finite element program for nonlinear structural mechanics
[TR-18] 04 p0587 N84-13881
GRIFFIN, T. J.
Local effects of partly-cloudy skies on solar and emitted radiations
[NASA-CR-173189] 07 p1035 N84-16711
GRIFFITH, B. J.
Explanation of the hypersonic longitudinal stability problem: Lessons learned 01 p0021 N84-10130
GRIFFITH, D. A.
Continuing design, review and analysis work for the Sierra Cooperative Pilot Project
[PB84-143627] 11 p1688 N84-21012
GRIFFITH, J. R.
Fluroepoxy and fluroacrylic transparencies
[AD-P003201] 17 p2592 N84-26614
GRIFFITH, J. S.
Hipot and continuity qualification est experience
22 p3583 N84-32692
GRIFFITH, R. V.
Hazards Control Department annual technology review, 1982
[DE83-015598] 03 p0439 N84-12883
GRIFFITH, W. L.
Diesel fuel extenders and substitutes
[DE84-003402] 08 p1167 N84-17597
GRIFFITHS, H. D.
A study of satellite radar altimeter operation over ice-covered surfaces
[ESA-CR(P)-1810] 08 p1179 N84-17683
GRIFFITHS, H. W.
Design QA on a small batch project
08 p1188 N84-17803
GRIFFITHS, J. B.
On the Bell-Szekeres solution for colliding electromagnetic waves
[MATHS-RES-176] 19 p3010 N84-29078
Algebraically special, nonaligned nonnull Einstein-Maxwell fields
[MATHS-RES-178] 19 p3114 N84-29783
GRIFFITHS, M. P.
Intermediate access switch: A multiprocessor application
[AD-A140363] 16 p2485 N84-25935
GRIGGS, J. E.
Dual rotating shaft seal apparatus
[DE84-011101] 20 p3197 N84-30307
GRIGGS, M.
Satellite measurements of marine aerosols
06 p0671 N84-15671
Satellite measurements of atmospheric aerosols
[AD-A135241] 08 p1190 N84-17757
AVHRR aerosol ground truth experiment
[PB84-157882] 14 p2181 N84-24065
GRIGORENKO, V.
Spacecraft simulators 09 p1264 N84-18252
GRIGORENKO, Y. M.
Solving statics problems of thick-walled cylindrical shells with loose contact between layers
13 p1973 N84-22805
GRIGOREV, A. K.
Use of theory of systems with dispersed parameters to formulate deformation resistance equations in pressure working of metals: Communication 2
[BLL-M-35595-(5828.4)] 21 p3363 N84-31337
GRIGOREV, V. P.
The effect of the structure of metallo-organic complexes on the electrolytic precipitation of titanium and niobium from nonaqueous electrolytes
[BLL-OA-TRANS-3070-(6196.3)]
04 p0497 N84-13259
GRIGORIEFF, R. D.
On perturbations of stability inequalities with an application to finite difference approximations of ODE's
[AD-A134535] 07 p1062 N84-16889
GRIGORY, S. C.
Experimental stress analysis and fatigue tests of five 12-in NPS ANSI Standard B169 tees
[DE84-010280] 18 p2853 N84-28117

GRIGORYAN, V. A.
Electrical resistances of molten alloys of iron containing carbon, boron and phosphorus
[BLL-M-35214-(5828.4)] 01 p0041 N84-10263
Magnetic susceptibility of Fe-B, Fe - P and Ni - P alloys
[BLL-M-35126-(5828.4)] 01 p0138 N84-10902
Experimental study of immiscibility in metallurgical systems
[BLL-M-35553-(5828.4)] 17 p2621 N84-26775
GRIGORYANTS, A. G.
Increasing fusion efficiency in laser welding with dynamic beam focusing 23 p3710 N84-33516
Hardening alloy surfaces by laser irradiation 24 p3869 N84-34518
Features of laser welding of AMg6 alloy 24 p3870 N84-34525
Comparative estimate of cyclic strength of welded joints in titanium alloys 24 p3876 N84-34561
GRIGORYANTS, V. V.
Fiber optic light guides based on polymer coated multicomponent glasses 21 p3487 N84-32100
GRIGORYEV, V. Y.
Control computer and automation subsystem equipment in Delfin Facility 20 p3289 N84-30880
GRIGORYEV, Y. G.
Change in immunobiological reactivity under the effect of combined exposure to microwaves, infrasound and gamma radiation 07 p1043 N84-16764
GRIGORYEVA, L. S.
Evaluation of skeletal muscle tone by recording lateral rigidity 02 p0262 N84-11717
GRIGSBY, D. K.
Space-exposed experiment developed for students 15 p2277 N84-24676
GRILL, A.
Correlations between plasma variables and the deposition process of Si films from chlorosilanes in low pressure RF plasma of argon and hydrogen
[NASA-TM-83603] 11 p1737 N84-21330
RF sputtered silicon and hafnium nitrides as applied to 440C steel
[NASA-TM-86862] 22 p3559 N84-32536
GRILL, D. J.
The effects of REFORGER (return of forces to Germany) exercise participation on soldiers' attitudes
[AD-P003260] 18 p2906 N84-28427
GRILLS, G. S.
Effects of simulated weightlessness on mammalian development. Part 1: Development of clinostat for mammalian tissue culture and use in studies on meiotic maturation of mouse oocytes 09 p1357 N84-18868
GRILLS, R. H.
Characterization of fiber composite flywheels by ultrasonic imaging techniques
[DE84-004689] 10 p1452 N84-19487
GRIMES, A. G.
Further abbreviation of the machining schedule for producing surface-damage-free beryllium
[DOE/TIC-4500-REV-69] 06 p0814 N84-15297
GRIMES, P.
Development of a circulating zinc-bromine battery, phase 2
[DE84-001886] 04 p0527 N84-13463
GRIMM, M. J.
A simple algorithm for the metric traveling salesman problem 22 p3573 N84-32631
GRIMM, R. E.
Spectral analysis of groove spacing on Ganymede 15 p2426 N84-25570
GRIMMER, D. P.
Development of a point-electrode conductivity salinometer with high-spatial-resolution for use in very-saline solutions
[DE83-011170] 01 p0085 N84-10550
GRIMSDITCH, M.
Magnetic properties of Mo/Ni superlattices
[DE84-000568] 04 p0614 N84-14053
Elastic moduli of H2O: Liquid, ice 6 and ice 7
[DE83-017960] 05 p0652 N84-14284
GRIMSON, W. E. L.
Computational experiments with a feature based stereo algorithm
[AD-A142549] 20 p3259 N84-30687
GRINER, D. B.
Laser furnace technology for zone refining
[NASA-TM-86459] 22 p3600 N84-32805
GRINER, T.
Effects of pulsed microwaves at 1.28 and 5.62 GHz on Rhesus monkeys (Macaca mulatta) performing an exercise task at three levels of work
[AD-A132057] 03 p0413 N84-12704
The use of a small digital computer for on-line behavioral experiments
[AD-A138975] 13 p2025 N84-23126
GRINGAUZ, K. I.
On the stimulated precipitation of electrons and the mechanism of wave generation in the whistler range in the ARAKS experiment 05 p0637 N84-14190
GRINGORTEN, I. I.
Winds: Chapter 6, 1983 revision. Handbook of Geophysics and Space Environments
[AD-A132018] 03 p0410 N84-12683
Time lapse simulation of interrelated weather conditions
[AD-A133999] 05 p0708 N84-14639
Modeling climatology of areal coverage
[AD-A138276] 12 p1860 N84-22120
Handbook of geophysics and space environments, Chapter 15, 1983 revision: Atmospheric temperature, density and pressure
[AD-A138846] 13 p2017 N84-23076
Handbook of geophysics and space environments. Chapter 16: Water vapor, precipitation, clouds and fog, revised
[AD-A144176] 24 p3934 N84-34901
GRINSON, A. S.
Formation and distribution of kimberlites in the eastern Siberian platform in connection with deep structure specifics 18 p2858 N84-28151
GRISHIN, P. A.
On the functional dependence of the freezing point of soils on the composition of water soluble salts in an interstitial solution
[NRC/CNR-TT-2070] 06 p0877 N84-15707
GRISHIN, S. D.
Future space transport
[NASA-TM-77554] 14 p2114 N84-23668
Space transportation systems of the future 21 p3348 N84-31236
GRISHINA, A. D.
Photographic characteristics of polymer composite including complex with charge transfer 18 p2826 N84-27944
GRISHINA, E. N.
Use of refractory coatings to protect metal gainst high-temperature corrosion
[BLL-M-35543-(5828.4)] 17 p2621 N84-26772
GRISHINA, K. V.
Metabolic disturbances in man in an environment with low ammonia level and their correction by graded physical exercise 07 p1045 N84-16780
GRISHINA, Y. F.
Relationship between cardiovascular system response and adrenocortical glucocorticoid function on exposure to diffuse, low-intensity helium-neon laser emission 17 p2741 N84-27405
GRISWOLD, N. C.
Bit weighting and soft decision demodulation for image compression & error control
[AD-A134187] 07 p1054 N84-16825
GRISWOLD, T. W.
Product assurance technology for procuring reliable, custom LSI/VLSI electronics
[NASA-CR-173405] 12 p1812 N84-21810
GRIT, D.
SISAL: Streams and Iteration in a Single-Assignment Language. Language reference manual, version 1.1
[DE83-016576] 04 p0582 N84-13843
GRITSENKO, N. I.
Dependence of properties of Josephson junctions at semiconductor surface on parameters of subsurface layer 18 p2825 N84-27936
GRITTON, D. G.
Novette pulse-power-system description
[DE83-018185] 06 p0918 N84-15968
Design and construction of large capacitor banks
[DE84-002790] 07 p0998 N84-16472
GROBMAN, W.
Storage ring design for X-ray lithography
[DE84-002859] 09 p1390 N84-19079
GROBOV, V. A.
Dynamics of angular movements of a solid supporting a rotating rotor with consideration of energy dissipation
[AD-A143349] 22 p3611 N84-32881
GROCH, W. D.
Automation in digitizing large scale maps 07 p1019 N84-16608
GRODY, N. C.
Precipitation monitoring over land from satellites by microwave radiometry 23 p3774 N84-33924
GROEBKE, H.
Scatterometer System Simulator (SSS), phase 1: Definition
[ESA-CR(P)-1788] 08 p1191 N84-17765
ERS-1 system simulation and calibration 23 p3783 N84-33991
GROENEVELD, R. L.
West breakwater-Sines (Portugal): Study of armor stability 08 p1194 N84-17788
West breakwater-Sines (Portugal): New aspects of armor units 08 p1195 N84-17789
Optmization of breakwater lengths in relation to wave penetration
[PUBL-312] 15 p2360 N84-25160
GROENEWOLD, G. H.
Geological and geochemical controls on the chemical evolution of subsurface water in undisturbed and surface-mined landscapes in western North Dakota
[PB84-126952] 08 p1180 N84-17685
GROENWALD, P. C. N.
Multi-Bayesian estimation theory
[CSIR-TWISK-296] 11 p1712 N84-21160
GROENWALD, R.
Acoustic leak detection and ultrasonic crack detection
[DE84-004037] 09 p1328 N84-18670
GROESBECK, D. E.
Low frequency noise in a quiet, clean, general aviation turbofan engine
[NASA-TM-83520] 10 p1575 N84-20320
GROESCHE, F.
Cycle of waste heat energy transformation
[BMFT-FB-T-83-173] 07 p1026 N84-16652
GROESEN, E. W. C. V.
On small period, large amplitude normal modes of natural Hamiltonian systems
[AD-A139314] 14 p2213 N84-24294
GROETHE, M.
Shock isolated accelerometer
[AD-P002692] 11 p1660 N84-20827
GROETZ, K.
The ISPM unified radio and plasma wave experiment 09 p1262 N84-18237
GROGAN, T. A.
Shape recognition and description: A comparative study
[AD-A132842] 05 p0737 N84-14843
GROGEN, T. A.
Evaluation of Fourier descriptors for target recognition in digital imagery
[AD-A130182] 01 p0129 N84-10844
GROGGAN, S.
Project FIRST (Faculty Information and Research Service for Texas) technical description of project and results
[PB84-161629] 14 p2248 N84-24501
GROH, K.
Testing of coatings in space, Long Duration Exposure Facility (LDEF)
[BMFT-FB-W-84-017] 21 p3353 N84-31269
GROHSE, E. W.
Liquid suspensions of reversible metal hybrides
[DE84-014358] 24 p3881 N84-34586
GROLIER, M. J.
Substance geology of the western desert in Egypt and Sudan revealed by Shuttle Imaging Radar (SIR-A) 07 p0987 N84-16392
Multiprocess evolution of landforms in the Kharga Region, Egypt: Applications to Mars 13 p2086 N84-23511
GROMAKOVSKIY, D. G.
Utilization of selective mass transfer for increasing performance capability of hinges subject to heavy loads 17 p2641 N84-26898
GROMET, L. P.
Average sedimentary rock rare Earth element patterns and crustal evolution: Some observations and implications from the 3800 Ma ISUA supracrustal belt, West Greenland 11 p1678 N84-20953
GROMOV, Y. M.
EEG informational content in prediction of work performance 18 p2895 N84-28368
GRONEIM, H.
A numerical method in solving a coupled thermoelasticity equation and some results
[AD-A130183] 01 p0129 N84-10843
GRONER, N. E.
Measuring evacuation difficulty 04 p0512 N84-13363
GRONSKY, R.
High-resolution electron-microscopy studies of native oxide on silicon
[DE83-014794] 01 p0155 N84-11018
Proceedings of the Seventh International Conference on High Voltage Electron Microscopy
[DE83-016323] 04 p0538 N84-13540
High resolution study of the relationship between misfit accommodation and growth of Cu sub 2-x in CdS
[DE84-004636] 11 p1673 N84-20920
Electron microscopy at atomic resolution
[DE84-005546] 11 p1730 N84-21288
Characterization of single crystal Cu/sub 2S/CdS heterojunctions by hing resolution electron microscopy
[DE84-006761] 13 p2048 N84-23287

High resolution electron microscopy studies of the early stages of decomposition in alloys and ceramics
[DE84-020802] 20 p3163 N84-30087

GROOM, N. J.
Integrated Flywheel Technology, 1983
[NASA-CP-2290] 03 p0343 N84-12228
Annular Momentum Control Device (AMCD) 03 p0345 N84-12241
Advanced Control and Power System (ACAPS) technology program 03 p0345 N84-12243

GROOM, T.
Combustion of GAP, part 1 20 p3142 N84-29952

GROOT, C. G.
Glycosaminoglycans in fetal bone mineralization 23 p3809 N84-34156

GROPP, W.
A high performance bulk memory system
[AD-A140780] 17 p2749 N84-27451

GROPP, W. D.
Important CAD/CAM utilization at MBB
[MBB-Z-13-83-O] 16 p2564 N84-26451
Local uniform mesh refinement with moving grids
[AD-A141782] 19 p3088 N84-29602

GROSBOEL, P. J.
Performance of the ESO PDS 18 p2840 N84-28027
Plans for a fast image recording system at ESO 18 p2842 N84-28046

GROSCH, C. E.
Embedded cavity drag in steady and unsteady flows
[NASA-CR-172275] 04 p0531 N84-13493
A numerical study of the 2- and 3-dimensional unsteady Navier-Stokes equations in velocity-vorticity variables using compact difference schemes
[NASA-CR-172353] 17 p2667 N84-27004

GROSCHE, F. R.
Propeller and rotor noise testing in aeroacoustic wind tunnels 14 p2097 N84-23583

GROSGEBAUER, K. E.
Color display technology in advanced fighter cockpits 06 p0772 N84-15061

GROSHEVA, L. A.
Structural features of polycrystalline ZnSe and solid solutions ZnSa sub I-x S sub x 12 p1788 N84-21659

GROSHEVA, V. M.
Reinforcing materials based on magnesium oxide 12 p1783 N84-21637

GROSJEAN, F.
Speech communication 22 p3684 N84-33358

GROSS, B.
Mode 2 fatigue crack growth specimen development
[NASA-TM-83722] 19 p3034 N84-29248
Annals of the Fourier Institute, volume 34, no. 1
[ISSN-0373-0956] 22 p3633 N84-33025
Annals of the Fourier Institute, volume 34, no. 2
[ISSN-0373-0956] 22 p3635 N84-33038

GROSS, C.
Self-correcting electronically scanned pressure sensor
[NASA-CASE-LAR-12686-1] 05 p0683 N84-14491

GROSS, K. P.
Photodiagnostics of turbulent flows using laser-induced fluorescence
[NASA-CR-166546] 08 p1155 N84-17519
Optical measurements of fluctuating temperatures in a supersonic turbulent flow using one- and two-photon, laser-induced fluorescence
[NASA-TM-85949] 15 p2336 N84-25020
Optical stark effect in the 2-photon spectrum of NO
[NASA-TM-85964] 21 p3492 N84-32131

GROSS, P. G.
The DARPA Internet project: M/A-COM LINKABIT eastern operation
[AD-A137661] 11 p1711 N84-21155

GROSS, R. J.
Study of Deflagration-to-Detonation Transition (DDT) in the granular explosive, CP
[DE84-009500] 15 p2305 N84-24828

GROSS, R. S.
A determination and analysis of polar motion 02 p0247 N84-11615

GROSS, R. W. F.
Saturation processes in doppler-broadened HF vibrational transitions
[AD-A134282] 07 p1009 N84-16546
Fabry-Perot interference filters
[AD-A136511] 09 p1388 N84-19066

GROSS, S.
Analysis of regenerative fuel cells
[NASA-CR-171783] 04 p0557 N84-13671
Study of flywheel energy storage for space stations
[NASA-CR-171780] 13 p2009 N84-23028
Special test methods for batteries 23 p3738 N84-33695

GROSSBECK, M. L.
A comparison of the irradiated tensile properties of a high-manganese austenitic steel and type 316 stainless steel
[DE84-000260] 04 p0502 N84-13294
Fatigue behavior at 650 deg of 20 percent-cold-worked type 316 stainless steel irradiated at 550 deg C in the HFIR
[DE84-014269] 23 p3718 N84-33572

GROSSBERG, S.
Dynamic models of neural systems: Propagated signals, photoreceptor transduction, and circadian rhythms
[AD-A137826] 11 p1695 N84-21059
Nonlinear dynamics of multi-channel binocular vision
[AD-A142600] 20 p3260 N84-30689

GROSSI, L.
CONSTRUCT: A tool for programming in the large 05 p0722 N84-14733

GROSSINGER, R.
Anisotropy and microstructure of Sm2(Co, Fe, Cu, Zr)17 magnetic materials
[AD-A131961] 03 p0352 N84-12291

GROSSMAN, E.
Correlations between plasma variables and the deposition process of Si films from chlorosilanes in low pressure RF plasma of argon and hydrogen
[NASA-TM-83603] 11 p1737 N84-21330

GROSSMAN, G.
Simultaneous heat and mass transfer in absorption of gases in turbulent liquid films
[DE83-016394] 02 p0220 N84-11445

GROSSMAN, L.
High-temperature inclusions in the Murchison meteorite 11 p1755 N84-21454

GROSSMAN, L. H.
Low temperature fluorination of aerosol suspensions of hydrocarbons utilizing elemental fluorine
[AD-A139958] 15 p2287 N84-24721

GROSSMAN, W.
Tapered-wiggler free-electron laser oscillator program
[AD-A144053] 23 p3755 N84-33799

GROSSMANN, J. M.
Flux diffusion and acceleration in a high current modified betatron
[AD-A141277] 18 p2931 N84-28584

GROSVELD, F. W.
Investigation of fuselage acoustic treatment for a twin-engine turboprop aircraft in flight and laboratory tests
[NASA-TM-85722] 07 p1069 N84-16947

GROSWALK-CREMER, L.
Determining the homomorphils of polar substances by gas-liquid chromatography
[BLL-T6164/BG/LRS-(9022.048)] 01 p0036 N84-10229

GROSZ, B. J.
Research on interactive acquisition and use of knowledge
[AD-A137436] 10 p1568 N84-20270

GROSZ, M.
A distributed memory management system for PASM
[AD-A141360] 19 p3072 N84-29487

GROTCH, S. L.
Use of 3D graphics in scientific data analysis
[DE84-000911] 06 p0898 N84-15831
Three-dimensional graphics for scientific data display and analysis
[DE84-004075] 10 p1565 N84-20253

GROTE, A.
V-band integrated quadriphase modulator
[NASA-CR-175159] 08 p1149 N84-17480

GROTE, M. G.
Cascade variable-conductance heat pipe (A0076) 15 p2274 N84-24651

GROTEN, E.
Tidal effects in geodetic observations 07 p1030 N84-16676
Geodetic aspects of ESA projects, studies and investigations 07 p1030 N84-16677
A note on atmospheric effects in the Earth's rotation 07 p1030 N84-16678
Reports on cartography and geodesy. Series 2: Translations, number 41. Report on high precision gravimetry, volume 2
[ISSN-0469-4244] 19 p3043 N84-29306

GROTHUS, M. A.
The transient response of circular foil heat-flux gages
[DE83-017785] 04 p0538 N84-13541

GROTKE, G. E.
A parametric study of surface transformation hardening with high-power lasers
[AD-A140160] 16 p2497 N84-26023

GROUMPOS, P. P.
The subjective effect of multiple co-channel frequency modulated television interference
[NASA-TM-83415] 02 p0208 N84-11360

GROUNNER, M.
Development of mechanically-stacked multijunction solar cell for concentrator applications
[DE84-008355] 15 p2363 N84-25177

GROUTAGE, F. D.
Pivotal mono wing cruise missile with wing deployment and fastener mechanism
[AD-D011192] 24 p3853 N84-34436

GROVEMAN, B.
Users guide for ERB 7 MAT (including the first year quality control)
[NASA-CR-170514] 13 p2026 N84-23134

GROVEMAN, B. S.
County-level wind resource estimates for DOE Region 5
[DE84-000009] 04 p0568 N84-13744

GROVER, B. C.
Rubidium frequency standard study
[AD-A134713] 08 p1151 N84-17492

GROVER, R.
Theory of the iron equation of state and melting curve to very high pressures
[DE83-015899] 02 p0196 N84-11274

GROVER, R. F.
Increased metabolism and dead space as components of ventilation at high altitude
[AD-A130827] 06 p0887 N84-15766
Variable inhibition by falling CO2 of hypoxic ventilatory response in man
[AD-A130658] 06 p0887 N84-15768

GROVES, N. C.
Cavitation inception observations on axisymmetric headforms with turbulence stimulators
[AD-A133517] 06 p0844 N84-15506

GROVES, R. D.
LSI (Large Scale Integrated) design for testability: Design, demonstration and testability analysis
[AD-A135899] 09 p1308 N84-18550

GROW, G. R.
The 1982 laser program
[DE84-006476] 14 p2151 N84-23887

GRUBB, D. S.
Americal National Standard X3.102 user reference manual
[PB84-155571] 17 p2654 N84-26977

GRUBB, R. N.
The GOES X-ray imager feasibility demonstration
[PB84-111970] 09 p1319 N84-18614

GRUBER, A.
Determination of the planetary radiation budget from TIROS-N satellites
[PB84-100916] 08 p1189 N84-17748
The impact of satellite temperature soundings on the forecasts of a small national meteorological service 17 p2717 N84-27295

GRUBER, E.
Research and development on the encapsulation of solar cells with improved potting and cover materials
[BMFT-FB-T-83-309] 15 p2363 N84-25175

GRUBER, R. P.
Simplified dc to dc converter
[NASA-CASE-LEW-13495-1] 23 p3734 N84-33663

GRUDEN, J. M.
Repetitive switching for an electromagnetic rail gun
[AD-A138360] 12 p1812 N84-21814

GRUDKOWSKI, T. W.
Research and development of subsurface acoustic wave device configurations for sensor applications
[AD-A133659] 05 p0742 N84-14877

GRUEBEL, G.
Systematic computer aided control design 01 p0015 N84-10100

GRUEN, A. W.
A test strategy for high resolution image scanners
[AD-A134998] 08 p1231 N84-18048

GRUEN, D. M.
Effect of oxygen monolayer coverages on titanium sputtering yields as determined by simultaneous laser fluorescence and Auger measurements
[DE83-014716] 01 p0046 N84-10296
Narrow-band, near-UV, high-repetition-rate laser-induced fluorescence system for use as an dge diagnostic in fusion machine
[DE84-000586] 04 p0542 N84-13567
Modification of alloy surface composition by segregation processes as a means of impurity control in fusion devices
[DE84-003645] 08 p1134 N84-17373
Velocity and electronic state distributions of sputtered Fe atoms by laser-induced fluorescence spectroscopy
[DE84-003649] 08 p1230 N84-18040

GRUEN, E.
The ISPM dust experiment 09 p1262 N84-18239

GRUENINGER, W.
Accuracy of gravimetrically determined absolute and relative geoid heights
[SER-A-97] 03 p0407 N84-12661
GRUENTHALER, K. H.
A contribution to the manufacture and characteristics of steel-wire-reinforced aluminum
[NASA-TM-76977] 07 p0974 N84-16310
GRUMPELT, H.
Simulation of the reaction of optical systems in the manufacturing process
[BMFT-FB-T-84-128] 23 p3728 N84-33622
GRUN, J.
Variation of laser absorption with plasma scalelength in long-scalelength plasmas
[DE84-002743] 06 p0921 N84-15991
X-ray production in long-scale length laser-plasma interaction experiments
[DE84-002472] 07 p1076 N84-16997
A novel X-ray backlighting method for Rayleigh-Taylor instability measurements on ablatively driven targets
[AD-A138644] 13 p1993 N84-22937
Introduction to the Laser-HANE experiment and summary of low-pressure interaction results
[AD-A138945] 13 p1996 N84-22952
Magnetic bubble formation produced by an expanding laser plasma
[AD-A139168] 14 p2228 N84-24359
GRUND, E. C.
Preliminary program manager's guide to Ada
[AD-A140347] 16 p2565 N84-26457
GRUNDMANN, R.
Development of a simple wind speedometer for application in countries of the developing world
[BMFT-FB-T-83-310] 15 p2336 N84-25022
GRUNDSTROM, S.
Solar Radiation Data Directory: A guide to solar radiation and meteorological data collection activities in the US
[DE84-000095] 20 p3315 N84-31057
GRUNE, G. L.
Material requirements for multimedia communications cable 11 p1724 N84-21248
GRUSHVITSKIY, R. I.
Improvement in analog error autocorrection circuit 17 p2634 N84-26855
GRUTTKE, W. B.
Translators between CADD and section 5 of the ANSI Y14.26M standard 12 p1871 N84-22192
GRY, C.
A general survey of the correlation of interstellar element depletion with line-of-sight density indicators 24 p3973 N84-35158
GRYBECK, D.
Emerging recognition of the nonfuel mineral resources of Arctic Alaska 14 p2164 N84-23962
GRZEDZIELSKI, S.
Comment on the observed plasma densities in Jupiter's distant magnetotail (wake); a possible explanation
[IFSI-83-2] 03 p0465 N84-13062
GRZYMKOWSKI, M.
Methods of analyzing processes of plastic working of metal, part 1 19 p2990 N84-28948
Methods of analyzing processes of plastic working of metal, part 3 19 p2990 N84-28949
Methods of analyzing processes of plastic working of metal, part 2 19 p2990 N84-28950
Methods of analyzing processes of plastic working of metal, part 4 19 p2991 N84-28951
GSCHNEIDNER, K. A.
Structural studies at elevated pressure and reduced temperatures using synchrotron radiation: Application to Ce.8La.1Th.1
[DE84-001793] 06 p0924 N84-16007
GSCHREL, U.
On a series of problems with machines: Costs of modernization and storage in case of demand
[TUM-M8312] 16 p2475 N84-25863
GSCHWIND, J.
The JILA (Joint Institute for Laboratory Astrophysics) portable absolute gravity apparatus
[AD-A132199] 05 p0684 N84-14495
GU, Q.
Electromagnetic wave theory and remote sensing 22 p3683 N84-33350
GU, Z. P.
From launching carrier rockets towards the Pacific on the accomplishments and problems of electronic technologies in our country
[AD-A131088] 03 p0366 N84-12380
GUADENZI, S.
SS Cygni: Accretion disk morphology 24 p3979 N84-35206
GUAGNAN, C.
Journal on Numerical Methods and Computer Applications (selected articles)
[AD-A134752] 08 p1220 N84-17967
GUALTIEROTTI, A. F.
On the stability of signal detection
[AD-A138525] 12 p1808 N84-21785
A note on average mutual information for spherically invariant processes
[AD-A141401] 19 p3083 N84-29570
GUAN, S. Y.
Fast estimation of state feedback gain for the design of aircraft autopilots
[GU-AERO-8305] 15 p2264 N84-24596
GUANGMING, X.
Re-entry and simulation
[AD-A135515] 08 p1108 N84-17201
GUARD, C. P.
A study of Western North Pacific tropical storms and typhoons that intensify after recurvature
[AD-A138792] 13 p2017 N84-23075
GUARDALBEN, M. G.
Investigation of sol-gel antireflection coatings
[DE84-008381] 19 p3030 N84-29218
Characterization of micron-sized, optical coating defects by photothermal deflection microscopy
[DE84-011150] 20 p3301 N84-30960
GUARNIERI, A.
Ultraviolet and optical observations of the Cygnus OB2 association: The star 8A 24 p3977 N84-35191
SS Cygni: Accretion disk morphology 24 p3979 N84-35206
Coordinated X-ray, ultraviolet, optical, and infrared observations of the transient source A0535+26 24 p3981 N84-35219
GUBANKOV, V. N.
Josephson point contacts noise properties at microwave 22 p3569 N84-32602
GUBANOV, A. V.
Interaction of air shock waves and porous shield 17 p2645 N84-26922
GUBAREV, P.
Soyuz T-10 docks with 'Salyut-7' 19 p2971 N84-28828
GUBAREV, V.
Development of Venera-15, -16 radars 12 p1775 N84-21580
Cosmonauts begin research program on 'Salyut-7' 19 p2971 N84-28830
Feoktistov: Space program ready for manufacturing shops in orbit 19 p2971 N84-28833
Research on 'Prognoz-9' and 'Astron' satellites 19 p2972 N84-28838
GUBE, M.
Radiation budget parameters from Meteosat-2 data 10 p1534 N84-20049
GUBENKO, S. I.
Distribution of micro-heterogeneous deformation in O8Yu steel around inclusions during compression
[BLL-M-35641-(5828.4)] 22 p3553 N84-32498
GUBONIN, N. S.
Optimization of two-coordinate surface radar station by combination of technical and economic indices 17 p2630 N84-26825
GUBSKY, V. F.
Effects of small-scale plasma disturbance on the IKB-1300 spacecraft potential
[PR-839] 08 p1109 N84-17208
GUCCIONE, S.
In the labyrinth of many valued logics
[AD-P002331] 14 p2190 N84-24122
GUDAS, J. P.
Experimental investigation of tearing-instability phenomena for structural materials
[DE83-900676] 01 p0097 N84-10629
J-integral tearing instability analysis for 8-inch diameter ASTM A106 steel pipe
[AD-A142589] 20 p3153 N84-30023
GUDGEON, R. L.
Aircraft loading adapter for use with ordnance lift vehicle
[AD-D011147] 23 p3696 N84-33421
GUDIKSEN, P. H.
Experimental and model transport and diffusion studies in complex terrain with emphasis on tracer studies
[DE84-013076] 22 p3626 N84-32975
GUEDRY, F. E., JR.
Vestibulo-ocular reflex gain in man during active versus passive oscillation and the influence of voluntary gaze-control tasks
[AD-A132006] 03 p0415 N84-12717
The effects of character stroke width on the visibility of a head-coupled display
[AD-A132046] 04 p0484 N84-13183
GUEDRY, F. J.
Airsickness during Naval flight officer training: Fleet readiness squadrons
[AD-A138973] 14 p2185 N84-24095
GUELDENPFENNIG, P. M.
System for computer generated images and digital radar landmass simulation systems
[MBB-UA-688-82-OE] 02 p0275 N84-11797
GUENTHER, A. H.
Pulsed power bibliography. Volume 2: Annotated bibliography
[AD-A131753] 03 p0379 N84-12468
Pulsed power bibliography. Volume 1: Indices
[AD-A131752] 03 p0379 N84-12469
Proceedings of a Symposium on Laser Induced Damage in Optical Materials: 1981
[PB84-127869] 09 p1324 N84-18649
Laser Induced Damage in Optical Materials: 1982
[PB84-175124] 16 p2498 N84-26025
GUENTHER, D. B.
Resonant 3-wave interactions and an application to the 160 minute solar oscillation 24 p3992 N84-35263
GUENTHER, G.
Development of an isothermal forming technique for the production of precision parts made from titanium alloys
[BMFT-FB-T-83-220] 10 p1472 N84-19616
GUERARD, D.
Low temperature structure and properties of graphite lamellar compounds
[AD-A140875] 17 p2768 N84-27579
GUERBET, M.
A comparative study in the animal of the toxicity of the combustion products of diverse materials 22 p3632 N84-33015
GUERIN, G.
Thermal constraints in a helicopter during long duration flights under extreme climatic conditions 11 p1698 N84-21078
GUERIN, Y.
Irradiation creep of solution annealed and coldworked 316 stainless steel
[DE84-780404] 24 p3885 N84-34613
GUERKAN, T.
Selection of a mineral-base lubricant for the cold rolling of aluminum strip 15 p2401 N84-25412
GUERNSEY, C. S.
Multiple point source model for three dimensional plume flow fields 13 p1941 N84-22625
GUERRERO, J. V.
Small wind systems field evaluation. Volume 3: Utility issues
[DE84-006919] 15 p2365 N84-25190
GUERTIN, F. E.
CCRS proposal for evaluating LANDSAT-D MSS and TM data
[E84-10026] 02 p0238 N84-11560
CCRS proposal for evaluating LANDSAT-4 MSS and TM data
[E84-10096] 10 p1522 N84-19966
Radiometric calibration and geocoded precision processing of LANDSAT-4 MSS products 10 p1523 N84-19975
Evaluating LANDSAT-4 MSS and TM data
[E84-10157] 17 p2709 N84-27249
Radiometric calibration and geocoded precision processing of LANDSAT-4 Multispectral Scanner products by the Canada Centre for Remote Sensing 20 p3212 N84-30404
GUESS, T. R.
Thick-wall Kevlar 49/epoxy pressure vessels
[DE84-003102] 14 p2120 N84-23707
GUEST, G. F.
The 2-step ECRH current-drive study
[DE83-012745] 01 p0150 N84-10983
GUETLICH, K. F.
Lead-acid battery with improved cycle life and increased efficiency for lead leveling application and electric road vehicles
[BMFT-FB-T-83-225] 10 p1489 N84-19734
GUEVEN, O.
Design, performance, and analysis of an aquifer thermal-energy-storage experiment using the doublet-well configuration
[DE84-001811] 10 p1529 N84-20019
GUEZ, A.
Optimum control of electric motor drives for industrial robots
[DE84-012678] 21 p3395 N84-31543
GUEZENNEC, C. Y.
Sustained physical activity in diverse situations: Metabolic and hormone data 11 p1698 N84-21077
GUGEL, E.
Investigations on the system boron-carbon silicon
[NASA-TM-77375] 09 p1275 N84-18324
Development of silicon nitride gas turbine components, phase 2
[BMFT-FB-T-83-322] 15 p2262 N84-24591

GUHA, S.
Low-frequency Raman scattering from vitreous and molten B2O3
[AD-A132698] 05 p0649 N84-14269
Low frequency Raman spectra of V-B2O3 as a function of temperature and pressure
[AD-A132699] 05 p0649 N84-14270
GUIAR, C. N.
Potential surface improvements by bump removal for 64-m antenna 22 p3573 N84-32627
The 64-m antenna automatic subreflector focusing controller 22 p3573 N84-32628
GUIBERT, J.
A new measuring machine in Paris 18 p2842 N84-28047
GUICE, R. L.
Discrete charge diagnostics on Pre-DIRECT COURSE
[AD-A139073] 13 p1990 N84-22919
GUICHETEAU, P.
Bifurcation theory applied to the study of control losses on combat aircraft 04 p0478 N84-13144
GUIDICE, D. A.
Space systems environmental interactions technology program
[AD-P002125] 16 p2525 N84-26211
GUIDOS, B.
Navier-Stokes computational study of the influence of shell geometry on the Magnus effect at supersonic speeds
[AD-A130630] 01 p0079 N84-10516
GUIDOTTI, R. A.
Complex impedance of Ca/CaCrO4/Fe thermal batteries
[DE84-005507] 11 p1647 N84-20771
GUIDRY, R. M.
Theoretical chemical calculations on molecules of air force interest
[AD-A137203] 10 p1576 N84-20326
MINDO/3 and MNDO calculations for nitro compounds
[AD-A141727] 19 p3101 N84-29698
GUIGNARD, J. C.
Current research at the U.S. Naval Biodynamics Laboratory on human whole-body motion and vibration
[AD-A138367] 12 p1865 N84-22155
GUILAUMON, J. C.
Thermal control coatings experiment (A0138-6)
15 p2273 N84-24647
GUILL, F. G.
Aircrew Automated Escape Systems (AAES) In-service Usage Data Analyses, volume 1
[AD-A134833] 08 p1100 N84-17154
Aircrew Automated Escape Systems (AAES) In-service Usage Data Analyses, volume 2
[AD-A134834] 08 p1100 N84-17155
GUILLARD, R.
Preliminary investigation of ways to improve the strength of vertical electroslag welding
[CETIM-100-020] 21 p3415 N84-31654
GUILLEN, M. A.
Unified theory of plasma correlations
[AD-A131478] 02 p0296 N84-11938
GUILLERMET, J.
Choice of a melting installation for aluminum alloy
[BLL-OA-TRANS-3095-(6196.3)]
06 p0804 N84-15239
GUILLORY, J. U.
Alternate implosion models for the plane parallel diode
[AD-A131275] 02 p0295 N84-11937
GUILLOT, J. C.
Numerical diffraction by a uniform grid
[DE84-012861] 22 p3646 N84-33121
GUIMARAES, P. S.
The 2-D impurity states associated with inversion layers
[INPE-3081-PRE/493] 16 p2559 N84-26417
A calculation of the pressure dependent energy bands of cooper chloride
[INPE-3094-PRE/498] 16 p2559 N84-26419
A cluster model for the determination of the state of impurities in crystal
[INPE-3048-PRE/471] 16 p2559 N84-26420
GUINAN, E. F.
Ultraviolet studies of nova-like variables with the IUE
[NASA-CR-175233] 07 p1089 N84-17080
GUINAN, J. J.
Communications biophysics 22 p3684 N84-33362
GUINAN, M. W.
Spallation and 14-MeV neutron irradiation of stabilized NbTi superconductors
[DE83-017973] 03 p0368 N84-12394
Defect production efficiencies in thermal neutron irradiated copper and molybdenum
[DE84-010993] 20 p3309 N84-31018
GUINDON, B.
CCRS proposal for evaluating LANDSAT-4 MSS and TM data
[E84-10096] 10 p1522 N84-19966
GUINEA, F.
Electronic properties of semiconductor interfaces
[AD-A130745] 01 p0152 N84-11002
GUINNESS, E. A.
Structure of the Saint Francois Mountains and surrounding lead belt, south east Missouri: Inferences from thermal IR and other data sets
[E84-10027] 01 p0099 N84-10645
GUINNESS, R. E. A.
Martian dust storms witnessed by Viking Lander 1
13 p2081 N84-23487
GUIRAO, C.
Hydrogen-air detonations
[DE83-009289] 03 p0350 N84-12278
GUIRAUD, J. P.
Shock conditions and shock wave structures in a steady flow in a dissipative fluid
[NASA-TM-77381] 07 p1001 N84-16490
GUIRGUIS, R.
Reactive shock phenomena in condensed materials: Formulation of the problem and method of solution
[AD-A136514] 09 p1385 N84-19046
GUIRGUIS, R. H.
Investigation of the thermal initiation of detonation in nitromethane
[AD-A136211] 09 p1316 N84-18598
GUISSARD, A.
A tentative unified sea model for scattering and emission 17 p2715 N84-27285
GUITON, J.
Potentiostatic investigation of the kinetics of the breakdown of the passivity of aluminium in aqueous medium
[BLL-OA-TRANS-3066-(6196.3)]
06 p0804 N84-15238
GULAK, Y. K.
Feasibility of formation of discrete dust belts around Earth 19 p2976 N84-28863
GULDEN, M. E.
Erosion mechanisms of metals
[AD-A144194] 24 p3884 N84-34605
GULDVOG, I.
The effect of physical stress on gastric secretion and pancreatic polypeptide levels in man
10 p1546 N84-20138
GULINO, D. A.
Coaxial carbon plasma gun deposition of amorphous carbon films
[NASA-TM-83600] 10 p1587 N84-20404
GULKINSKY, O. V.
Joint analysis of the data obtained by detecting the general, muon, and neutron components of cosmic ray intensity on May 7, 1978 24 p3993 N84-35270
GULKIS, S.
SETI investigations at Jodrell Bank, England: September through November 1983 10 p1476 N84-19639
Note on the optimum search strategy for uniformly distributed CW transmitters 16 p2480 N84-25904
GULKO, E.
Coding of full motion color video signals at 50 kb/s
[AD-A134319] 08 p1146 N84-17456
GULLAHORN, G. E.
Investigation of dynamic noise affecting geodynamics information in a tethered subsatellite
[NASA-CR-173558] 15 p2319 N84-24923
GULLBERG, K.
Design and calibration of a CW coherent laser radar
[FOA-C-30345-E1] 15 p2320 N84-24930
Practical problems with CO2 laser radar tests
[RAE-TRANS-2113] 22 p3600 N84-32804
GULTEPE, M. E.
Compressibility of colloids. 2: Compressibility studies of tri-block non-ionic polymers in toluene and water solutions
[AD-A138738] 13 p1963 N84-22755
GULYAEV, Y. G.
A method of solving ductility theory problems
[BLL-M-35125-(5828.4)] 01 p0093 N84-10607
Method for solving variation problems of plasticity theory
[BLL-M-35555-(5828.4)] 17 p2676 N84-27047
GULYAYEVA, T. V.
Hardening alloy surfaces by laser irradiation
24 p3869 N84-34518
GUMBEL, H.
Development of mass-producible line-focus tracking concentrating solar collectors. Category 1: Collectors
[DE83-015629] 03 p0403 N84-12639
GUN, G. S.
Integrated evaluation of the quality of steel cable wire
[BLL-M-35267-(5828.4)] 06 p0854 N84-15564
GUNARD, K. T.
Water resources data for Minnesota, water year 1982. Volume 1: Great Lakes and Souris-Red-Rainy River Basins
[PB84-163047] 14 p2171 N84-24007
Water resources data for Minnesota water year, 1982. Volume 2: Upper Mississippi and Missouri River Basins
[PB84-163054] 14 p2171 N84-24008
GUNDERMAN, T.
Conceptual design of a noncontacting power transfer device for the ASPS Vernier system
[NASA-CR-172238] 22 p3581 N84-32677
GUNDERSON, C. A.
Laser damage in porous-silica antireflection films
[DE84-009535] 19 p3030 N84-29216
GUNES, D.
Multipole monolithic Surface Acoustic Wave (SAW) resonator filters
[AD-A136123] 09 p1309 N84-18561
GUNKEL, R. C., JR.
Environmental and water quality operational studies. Riverine influences on the water quality characteristics of West Point Lake
[AD-A141328] 18 p2677 N84-28271
GUNKLER, T. A.
Observations and analysis of solar flares using H Alpha spectral profiles 21 p3526 N84-32335
GUNNARSSON, K. T.
Robotic seam tracking
[AD-A141769] 19 p3031 N84-29228
GUNNERHED, M.
Reporting of indication data
[FOA-C-30352-E] 15 p2407 N84-25446
GUNNING, W. J.
Advanced filter technology
[AD-A135446] 08 p1232 N84-18050
GUNNINK, J. W.
Aramid Aluminum Laminate (ARALL): A material for the next generation of aircraft, a state of the art
[VTH-LR-400] 12 p1790 N84-21674
An assessment of the static strength of flush head aluminum alloy rivets in two grades of aramid aluminium laminate (ARALL) sheet
[VTH-LR-391] 12 p1827 N84-21913
GUNNINK, R.
Methods for deconvoluting and interpreting complex gamma and X-ray spectral regions
[DE83-013585] 03 p0454 N84-12991
GUNSHOR, R. L.
Monolithic ZnO SAW (Surface Acoustic Waves) structures
[AD-A135987] 09 p1309 N84-18557
GUNSON, J.
A digital flight control system for an unstable aircraft
[BU-292] 15 p2264 N84-24594
GUNST, R. F.
Estimation of parameters in linear structural relationships: Sensitivity to the choice of the ratio of error variances
[NASA-CR-171756] 09 p1372 N84-18958
Crop area estimation based on remotely-sensed data with an accurate but costly subsample
[E84-10087] 10 p1521 N84-19958
GUNTER, E. J.
Design study of magnetic eddy-current vibration suppression dampers for application to cryogenic turbomachinery
[NASA-CR-173273] 07 p1012 N84-16562
GUNTHER, F. J.
LANDSAT-4 sensor performance
[E84-10053] 05 p0697 N84-14573
TM digital image products for applications
20 p3206 N84-30371
TM digital image products for applications
[E84-10178] 21 p3428 N84-31749
TM digital image products for applications
[E84-10183] 21 p3429 N84-31754
GUNTHER, J. E.
Head-Up Display (HUD) technology demonstration
[AD-A134695] 08 p1104 N84-17180
GUNTON, D. J.
Dielectric loss measurement at millimetre wave frequencies using an untuned cavity
[RSRE-MEMO-3597] 03 p0366 N84-12379
GUNYAYEV, G. M.
Influence of natural exposure in space on physical-mechanical properties of carbon reinforced plastic 24 p3872 N84-34536
GUNZBURGER, M. D.
Numerical boundary conditions for flow problems
[AD-P002960] 14 p2200 N84-24200
Least squares approximations to compressible flow problems
[AD-P002961] 14 p2200 N84-24201

On the finite element approximation of the stream function-vorticity equations
[AD-A143506] 22 p3594 N84-32758
GUO, C.
Shot noise limited detection of OH using the technique of laser induced fluorescence
[NASA-CR-175433] 11 p1662 N84-20844
GUO, Y. G.
The JILA (Joint Institute for Laboratory Astrophysics) portable absolute gravity apparatus
[AD-A132199] 05 p0684 N84-14495
GUOAN, Z.
Discussion of static pressure liquid-floated gyros
[AD-A131874] 03 p0377 N84-12451
GUOBANG, C.
Tensile, compressive, and shear properties of a 64-kg/m3 polyurethane foam at low temperatures
[PB83-204818] 01 p0051 N84-10330
Tensile, comprehensive and sharp properties of a 96 kg/m3 cubic meter Polyurethane foam at low temperatures
[PB84-143643] 11 p1638 N84-20710
GUOFU, Z.
Journal of the Chinese Society of Astronautics (selected articles)
[AD-A131032] 02 p0183 N84-11191
GUPTA, A. D.
The influence of cutouts on transient response of hemispherical shells
[AD-P002943] 14 p2197 N84-24183
GUPTA, A. K.
Development of reaction-bonded silicon carbide (SiSiC)-ceramics
[JUEL-1873] 18 p2819 N84-27901
GUPTA, A. S.
On system diagnosis with multivalued test outcomes
[AD-P002375] 14 p2195 N84-24166
GUPTA, D. V.
Encapsulated multifunction corrosion inhibitive primer
[AD-A144311] 24 p3889 N84-34626
GUPTA, I. J.
Adaptive arrays for multiple simultaneous desired signals
[AD-A133486] 06 p0824 N84-15373
Effects of mutual coupling on the performance of adaptive arrays
[AD-A136083] 09 p1309 N84-18560
Adaptive arrays for satellite communications
[NASA-CR-173548] 15 p2320 N84-24924
GUPTA, N.
Real-time flutter analysis
[NASA-CR-170412] 11 p1605 N84-20512
GUPTA, N. K.
ACOSS twelve (active control of space structures)
[AD-A143829] 23 p3701 N84-33458
Comparison of frequency-domain and time-domain rotorcraft vibration control methods
[NASA-CR-166570] 24 p3852 N84-34431
GUPTA, S.
On interpolation methods for boundary value ordinary differential equations 04 p0586 N84-13669
GUPTA, S. K.
A robust pseudo-inverse spectral filter applied to the Earth Radiation Budget Experiment (ERBE) scanning channels
[NASA-TM-85781] 15 p2370 N84-25219
GUPTA, S. S.
On two-stage bayes selection procedures
[AD-A130301] 01 p0136 N84-10890
Optimal sampling in selection problems
[AD-A130248] 01 p0136 N84-10891
On the distribution of the studentized maximum of equally correlated normal random variables
[AD-A131529] 02 p0282 N84-11848
Selection procedures for optimal subsets of regression variables
[AD-A131567] 02 p0285 N84-11869
On Bayes and empirical bayes rules for selecting good populations
[AD-A133336] 06 p0904 N84-15869
On using selection procedures with binomial models
[AD-A135275] 08 p1219 N84-17957
Nonparametric selection procedures for a two-way layout problem
[AD-A135385] 08 p1220 N84-17962
Isotonic procedures for selecting populations better than a standard: Two-parameter exponential distributions
[AD-A135445] 08 p1223 N84-17985
Bayes-p* subset selection procedures for the best population
[AD-A140179] 16 p2551 N84-26367
Subset selection procedures: A review and an assessment
[AD-A140266] 16 p2551 N84-26368
GUPTA, U.
Research in dense plasma atomic physics
[AD-A141538] 19 p3107 N84-29740
GUPTA, Y. M.
Determining and modeling the response of piezoresistance transducers to dynamic loading
[AD-A137121] 10 p1498 N84-19788
GUPTILL, S. C.
Land use and land cover digital data
[GS-CIRC-895-E] 10 p1525 N84-19987
GURALNIK, G. S.
Monte Carlo calculations of elementary particle properties 10 p1561 N84-20229
GUREEV, N. V.
Production of porous sheets from metallic powders
[BLL-M-35465-(5828.4)] 12 p1796 N84-21713
GUREVICH, I. G.
Conditions of filtration burning of porous condensed systems with multiple passage of reaction wave 21 p3483 N84-32076
GUREVICH, R. V.
Design of short-wave absorption lines 21 p3377 N84-31433
GUREVICH, S.
Development of space holography 19 p2972 N84-28839
GUREVICH, S. M.
Welding with alloying and ultrasonic treatment with an ion beam 12 p1788 N84-21652
GUREVICH, Y. G.
Calculation of the statistical characteristics of surface
[NASA-TM-77462] 20 p3183 N84-30222
Nonequilibrium optical and acoustic phonons in semiconductors 21 p3485 N84-32085
GUREVICH, Y. R.
Design of short-wave absorption lines 21 p3377 N84-31433
GURLAND, J.
Combined macroscopic and microscopic approach to the fracture of metals
[DE84-014670] 23 p3719 N84-33577
GURNETT, D. A.
Whistler mode turbulence generated by electron beams in Earth's bow shock
[NASA-CR-173143] 07 p1034 N84-16707
Interaction of the space shuttle orbiter with the ionospheric plasma 08 p1117 N84-17265
Research in space physics at the University of Iowa, 1982
[NASA-CR-175411] 11 p1754 N84-21447
A summary of whistlers observed by Voyager 1 at Jupiter
[NASA-CR-173415] 13 p2091 N84-23545
Low frequency electric and magnetic noise along the auroral field lines
[NASA-CR-173641] 17 p2727 N84-27358
Path integrated growth of auroral kilometric radiation
[NASA-CR-173995] 24 p3919 N84-34812
GURNEY, C. M.
The use of linear feature detection to investigate thematic mapper data performance and processing
[E84-10037] 04 p0551 N84-13630
The use of linear feature detection to investigate Thematic Mapper data performance and processing 20 p3210 N84-30393
GURNEY, G. B.
Sidewall boundary layer corrections in subsonic, 2-dimensional airfoil-hydrofoil testing
[AD-A144002] 23 p3691 N84-33391
GURNICK, M. R.
Harmonic generation in paramagnetic spin systems
[AD-A130895] 01 p0153 N84-11004
GUROL, H.
d-d Tokamak reactor assessment
[DE83-016127] 04 p0609 N84-14019
GUROV, N. S.
Use of microprocessor techniques in frequency measuring organs 17 p2638 N84-26876
GUROVSKIY, N. N.
Main results of medical studies on Salyut-6--Soyuz program 15 p2375 N84-25249
GURSEL, G.
Optimization of query processing in distributed databases systems 16 p2567 N84-26474
GURSKY, H.
Polynominal grating
[AD-D011090] 22 p3657 N84-33186
GURSON, A. L.
Design and fabrication of a fiberglass circular-weave composite flywheel
[DE83-013406] 01 p0090 N84-10589
GURTIN, M.
Propellant nonlinear constitutive theory extension: Preliminary results
[AD-A133364] 06 p0812 N84-15267
GURTIN, M. E.
The 1-dimensional structured phase transformations under prescribed loads
[AD-A132807] 05 p0736 N84-14835
A coordinate transformation for the porous media equation that renders the free-boundary stationary
[AD-A132839] 05 p0737 N84-14842
GURULE, R. L.
Radar backscatter modelling 13 p2088 N84-23525
GURUSWAMY, G. P.
Unsteady transonic aerodynamic and aeroelastic calculations about airfoils and wings
[NASA-TM-85986] 21 p3324 N84-31092
GURYANOV, Y. A.
Nature of formation of stopper defect in hoisting ropes
[BLL-M-35544-(5828.4)] 17 p2674 N84-27036
GUSEMAN, L. F., JR.
Proceedings of the NASA Symposium on Mathematical Pattern Recognition and Image Analysis
[E84-10032] 03 p0392 N84-12557
Spline classification methods 03 p0393 N84-12564
GUSENKOV, A. P.
Estimation of local stress intensity in flanged thin-wall shell structures under heavy thermal load 13 p1972 N84-22799
Stressed-strained state of flanged shells under heavy thermal load beyond elastic limit 13 p1972 N84-22800
GUSEV, A. A.
Descriptive statistical model of earthquake focal radiation and its application in evaluating short-period strong movement 17 p2700 N84-27200
GUSEV, O.
New world records set by AN-72 transport 18 p2784 N84-27672
GUSEV, V. A.
Stable heterodyning system in RT-22 radio telescope for millimetric-wave spectroscopy 17 p2630 N84-26827
GUSEV, V. D.
Spectrum of phase fluctuations during probing of ionosphere 18 p2822 N84-27916
GUSEV, V. G.
Relations between algorithms of adaptive optimization of antenna arrays and algorithms of optimum detection of multidimensional stochastic signal 22 p3566 N84-32588
GUSEVA, T. V.
Vertical movements and magnetic variations before earthquakes 18 p2860 N84-28163
GUSEVA, Y. A.
Investigation of the thermophysical properties of high-melting materials with the aid of a complex of instruments
[NASA-TM-77402] 10 p1453 N84-19491
GUSHCHINA, R. T.
The density distribution of galactic cosmic rays allowing for the generalized tensor of anisotropic diffusion and for the real distribution of solar activity 24 p3994 N84-35275
GUSINOW, M. A.
Fundamental combustion and diagnostics research at Sandia
[DE84-001787] 05 p0651 N84-14280
GUSKOV, S. S.
Features of determination of low concentrations of oxygen in steel by the electrochemical method
[BLL-M-35212-(5828.4)] 01 p0041 N84-10262
GUSSENHOVEN, M. S.
SCATHA (Spacecraft charging at high altitudes) environmental atlas
[AD-A131456] 02 p0185 N84-11201
Systematics of the equatorward diffuse auroral boundary
[AD-A132897] 05 p0704 N84-14617
The concepts of critical temperature and energy cutoff of ambient electrons in high voltage charging of spacecraft 08 p1119 N84-17275
Requirements for validating system models
[AD-P002128] 16 p2525 N84-26214
GUSSMANN, E. A.
Mean depths of line formation 15 p2421 N84-25541
GUST, D.
Enhanced solar energy collection in porphyrin based photoconversion schemes
[DE84-006882] 14 p2173 N84-24015
GUSTAFSON, E. K.
The CARS spectroscopy in a supersonic jet 06 p0800 N84-15216
GUSTAFSON, G.
Research pressure instrumentation for NASA Space Shuttle main engine, modification no. 5
[NASA-CR-171122] 21 p3404 N84-31594

Research pressure instrumentation for NASA Space Shuttle main engine, modification no. 5
[NASA-CR-173860] 21 p3405 N84-31596
Research pressure instrumentation for NASA Space Shuttle main engine, modification no. 5
[NASA-CR-171125] 22 p3597 N84-32781
Research pressure instrumentation for NASA Space Shuttle main engine, modification no. 5
[NASA-CR-171126] 22 p3622 N84-32949
Research pressure instrumentation for NASA Space Shuttle main engine
[NASA-CR-173932] 23 p3702 N84-33463

GUSTAFSON, H.
Design of a remotely controlled hovercraft vehicle for spill reconnaissance
[PB84-124064] 08 p1105 N84-17187

GUSTAFSON, H. W.
Study of the FAA (Federal Aviation Administration) program to modernize maintenance operations
[AD-A142295] 20 p3125 N84-29848

GUSTAFSON, R.
Review of properties of various types of calorimeters: High luminosity and high energy
06 p0911 N84-15917

GUSTAFSON, R. A.
Special functions and group theory in theoretical physics
[DE83-015642] 02 p0301 N84-11975

GUSTAFSSON, T.
Experimental studies of the geometric and electronic structure of chemisorption bonding
[PB83-243949] 02 p0192 N84-11248

GUSTAVSON, C.
Enhanced compressible fluids investigation
[AD-A131622] 02 p0218 N84-11426

GUSTAVSON, D. B.
Status of the SLAC SNOOP diagnostic module for FASTBUS
[DE83-012715] 02 p0290 N84-11903

GUSTAVSSON, A.
Frequency stabilization of carbon dioxide lasers
[FOA-C-30328-E1] 02 p0228 N84-11496
Delamination growth in notched graphite/epoxy laminates under compression fatigue loading
[FFA-TN-1983-57] 15 p2284 N84-24713

GUSTAVSSON, L.
Protection against heat radiation in the steel industry
[FOA-C-20500-E4] 08 p1206 N84-17864

GUSTAVSSON, M.
Tube waves recorded in a seismic crosshole experiment
[FOA-C-20521-E1] 15 p2368 N84-25208

GUSYATNIKOV, B. S.
Control computer and automation subsystem equipment in Delfin Facility 20 p3289 N84-30880

GUTENKUNST, B.
Investigation to diminish the heavy metal concentrations in sewage sludges with organic complexing reagents
[BMFT-FB-T-83-158] 07 p1027 N84-16660

GUTIERREZ, M.
Matrix approach to testing mirrors, part 2
[DE83-011996] 04 p0558 N84-13676

GUTKNECHT, W. F.
Evaluation of sampling methods for gaseous atmospheric samples
[PB84-190735] 20 p3151 N84-30012

GUTKOWSKI, G. P.
Liquid hydrogen polygeneration system and process
[NASA-CASE-KSC-11304-1] 19 p3001 N84-29017

GUTMAN, L. N.
Operational soil moisture predicted model
[AD-A136381] 09 p1337 N84-18729

GUTMANAS, E. Y.
Cold sintering: A new powder consolidation process
[AD-A131687] 03 p0353 N84-12292

GUTMANN, J. C.
Displaying colors of specified chrominance on a color graphics display
[AD-A133591] 06 p0896 N84-15817

GUTOWSKI, R.
Properties of solutions of ordinary and partial differential equations describing the motion of mechanical systems
[ISSN-0208-5658] 07 p1058 N84-16852

GUTSMANN, D.
VLSI systems of digital signal processing for consumer applications
[BMFT-FB-T-84-060] 19 p3019 N84-29143

GUTTAG, J. V.
Preliminary report on the Larch shared language
[AD-A136117] 09 p1369 N84-18939

GUTTEBERG, O.
Measurements of atmospheric effects on satellite links at very low elevation angle 15 p2323 N84-24948

GUTTERMAN, Y.
Desert emergency of lack of water; how to find and collect water
[AD-A140981] 18 p2789 N84-27703
Desert emergency - lack of water - how to find and collect water. Plants and human survival in the desert
[AD-A142025] 20 p3228 N84-30513

GUTTMAN, I.
Statistical inference for reliability from stress strength relationships: The normal case
[AD-A142893] 21 p3472 N84-32005

GUY, A. W.
Effects of long-term low-level radiofrequency radiation exposure on rats. Volume 1: Design, facilities, and procedures
[AD-A134079] 06 p0885 N84-15756
Effects of long-term low-level radiofrequency radiation exposure on rats. Volume 3: SAR (Specific Absorption Rate) in rats exposed in 2450-MHz circularly polarized waveguide
[AD-A135376] 09 p1361 N84-18890
Effects of long-term low-level radiofrequency radiation exposure on rats. Volume 2: Average SAR and SAR distribution in man exposed to 450-MHz RFR
[AD-A135455] 09 p1361 N84-18891

GUY, S. R.
GENIE: A computer-based task for experiments in human-computer interaction
[AD-A137473] 10 p1553 N84-20181

GUYENNE, D.
Spacecraft/plasma interactions and their influence on field and particle measurements
[ESA-SP-198] 08 p1115 N84-17253
Europe: Two decades in space. Recollections by some of the principal pioneers
[ESA-SP-1060] 18 p2946 N84-28680
Twenty years of European cooperation in space
18 p2946 N84-28681

GUYENNE, T. D.
First European Space Mechanics and Tribology Symposium
[ESA-SP-196] 09 p1294 N84-18454
Environmental and thermal control systems for space vehicles
[ESA-SP-200] 10 p1439 N84-19396
International Geoscience and Remote Sensing Symposium (IGARSS) 84. Remote sensing: From Research Towards Operational Use, volume 1
[ESA-SP-215-VOL-1] 23 p3764 N84-33857
The International Geoscience and Remote Sensing Symposium (IGARSS) 84. Remote sensing: From research towards operational use, volume 2
[NASA-CR-173978] 23 p3777 N84-33946
Protein Single Crystal Growth Under Low Gravity
[ESA-SP-1067] 23 p3804 N84-34118

GUYER, K. L.
Electron-transfer kinetics of redox centers anchored to metal surfaces: Weak- versus strong-overlap reaction pathways
[AD-A139043] 13 p1956 N84-22718
Intramolecular electron transfer at metal surfaces. 2: Comparisons of ligand-bridged CR(3) reduction kinetics at silver versus mercury electrodes
[AD-A139047] 13 p1956 N84-22720
Surface-Enhanced Raman Scattering for redox-active adsorbates: Pentaammineosmium (3)/(2) and Pentaammineruthenium (2) containing nitrogen heterocycle ligands
[AD-A142418] 20 p3148 N84-29987
Electrochemical activation parameters for surface-attached reactants evaluation of unimolecular frequency factors for representative ligand-bridged reactions
[AD-A142483] 20 p3148 N84-29990

GUYTON, R. D.
The impact of factory automation and robotics on the contracting and acquisition processes
[AD-P002830] 13 p2062 N84-23375

GUZDAR, P. N.
Nonlinear mode coupling theory of the lower-hybrid-drift instability
[AD-A135538] 08 p1187 N84-17734
Rayleigh-Taylor instability in the presence of a stratified shear layer
[AD-A138544] 13 p2011 N84-23043

GUZMAN, A.
A program of research on microfabrication techniques for VLSI magnetic devices
[AD-A131706] 03 p0452 N84-12978

GVILDYS, J.
Sloshing response of a reactor tank with internals
[DE84-009629] 22 p3595 N84-32766

GVOZDEV, S. V.
Respiratory tract closing volume and structure of total lung capacity during seven-day hypokinesia in head-down position 07 p1045 N84-16778

GWATKING, J. C.
A software scheme for managing magnetic tape storage space
[AD-A142847] 21 p3465 N84-31969

GYARMATI, E.
Development of reaction-bonded silicon carbide (SiSiC)-ceramics
[JUEL-1873] 18 p2819 N84-27901

GYULASSY, M.
Quark-gluon plasma formation
[DE83-017742] 03 p0436 N84-12861

GYUNTER, V. E.
Interrelationship between temperature intervals of inverse martensite transformation and shape restoration in titanium nickelide-based alloys
12 p1786 N84-21648

GYURDZHIAN, A. A.
Practical applications of advances in aviation medicine
07 p1044 N84-16770
Thirteenth Gagarin Conference
12 p1865 N84-22151

GYURE, D. C.
Helical screw rheometer: A new concept in rotational rheometry
[DE84-004055] 14 p2149 N84-23873

GZOWSKI, E. R.
Lessons learned from the development and manufacture of ceramic reusable surface insulation materials for the space shuttle orbiters 01 p0025 N84-10158

H

HAACK, G. R.
The use of overlapped subarray techniques in simultaneous receive beam linear arrays
[AD-P003501] 21 p3383 N84-31469

HAAF, W.
A photovoltaic concentrator for 500 Wpk using a C50-Si generator and a glass-laminated metal membrane reflector
[BMFT-FB-T-84-050] 16 p2519 N84-26168

HAAG, H. G.
Non-metallic long span aerial cable with optical fibres for the use at 1.3 micrometers 11 p1722 N84-21236

HAAJIZADEH, M.
Convection in horizontal porous media with different end temperatures 03 p0374 N84-12438

HAAR, L.
Thermodynamic surface for water: The formulation and computer programs
[PB83-249789] 04 p0496 N84-13256

HAARIO, H.
On the range of real coefficients of functions with bounded boundary rotation 04 p0575 N84-13789

HAAS, A. R.
Research in knowledge representation for natural language understanding
[AD-A134102] 05 p0726 N84-14765
The syntactic theory of belief and knowledge
[AD-A133905] 05 p0732 N84-14807

HAAS, C. R.
A plasma focus with improved reproducibility
10 p1583 N84-20375
Dynamics of microstructures 10 p1583 N84-20376

HAAS, G. A.
Fast turn-on osmium coated cathode
[AD-D011036] 19 p3018 N84-29134

HAAS, G. M.
A proposed RF-technology R/D plan for the United States
[DE84-000643] 04 p0522 N84-13434

HAAS, H.
Life tests of ball bearings at 120C in helium atmosphere
[JUEL-1911] 23 p3757 N84-33816

HAAS, J. E.
Comparison between measured turbine stage performance and the predicted performance using quasi-3D flow and boundary layer analyses
[NASA-TM-83640] 13 p1932 N84-22564
Cold-air performance of compressor-drive turbine of department of energy upgraded automobile gas turbine engine. 3: Performance of redesigned turbine
[NASA-TM-83627] 16 p2438 N84-25644
Analytical and experimental investigation of stator endwall countouring in a small axial-flow turbine
[NASA-TP-2309] 22 p3536 N84-32388

HAAS, J. F. L.
Interaction of weak shock waves and discrete gas inhomogeneities 08 p1155 N84-17517

HAAS, M.
System for computer generated images and digital radar landmass simulation systems
[MBB-UA-688-82-OE] 02 p0275 N84-11797

HAAS, M. R.
A hardware/software simulation for the video tracking system of the Kuiper Airborne Observatory telescope
[NASA-TM-85896] 15 p2424 N84-25562
HAAS, R. H.
Study of Thematic Mapper and Multispectral Scanner data applications 20 p3215 N84-30421
HAAVISTO, J. R.
Micro-Optic gyro technology
[AD-A130990] 02 p0223 N84-11461
HABA, K.
Visible-light imaging MHD studies of the edge plasma in the JIPP-T-IIU Tokamak
[IPPJ-683] 23 p3827 N84-34272
HABA, Z.
Stochastic quantization: Stabilizing quantum models
[REPT-80] 20 p3312 N84-31032
HABASHY, T. M.
Electromagnetic wave theory and remote sensing
22 p3683 N84-33350
HABBAL, S. R.
Multiple transonic solutions and a new class of shock transitions in solar and stellar winds
03 p0468 N84-13083
Formation of standing shocks in stellar winds and related astrophysical flows 03 p0469 N84-13088
Rapid magnetic energy release, its possible role in coronal heating and solar wind acceleration
[AD-A133170] 07 p1093 N84-17106
HABER, F.
Research in adaptive beamforming for satellite communications
[AD-A133733] 05 p0688 N84-14396
HABER, R. N.
Perceptual factors in low altitude flight
[AD-P003329] 18 p2911 N84-28460
HABERL, S.
The synthesized climatic function map
03 p0400 N84-12617
HABERMANN, J.
Digital sound transmission methods for TV sound tracks
[BMFT-FB-W-84-007] 19 p3009 N84-29075
HABERSTICH, A.
Observations of ramped current operation in ZT-40M
[DE84-015076] 23 p3829 N84-34286
HABIBY, S. F.
Optical residue addition and storage units using a Hughes liquid crystal light valve
12 p1906 N84-22417
HACHEN, G.
Oligomerization and butenolysis of olefins by metathesis: Contributions to a chemical use of industrial C4-olefins
[BMFT-FB-T-83-184] 10 p1457 N84-19518
HACK, A. L.
Evaluation of proposed human subject certification tests for self-contained breathing apparatus
[PB84-172212] 17 p2748 N84-27447
HACK, B. R.
Guide to graphics at ANL, revised
[DE84-013189] 20 p3274 N84-30786
HACK, G. A. J.
Oxide dispersion strengthened alloys
23 p3703 N84-33472
HACK, J. E.
Study of the influence of metallurgical factors on fatigue and fracture of aerospace structural materials
[AD-A140659] 17 p2623 N84-26789
A new approach to the evaluation of the effects of stress state and interfacial properties on the behavior of advanced metal matrix composites
[AD-A143083] 21 p3357 N84-31294
Evaluation of the effects of stress state and interfacial properties on the behavior of advanced metal matrix composites
[AD-A143911] 23 p3711 N84-33525
HACK, M.
IUE impact on the studies of the Zeta Aur, Algol and W Ser interacting binary systems
24 p3971 N84-35142
The spectrum of the symbiotic star CH Cygni in January 1984 24 p3980 N84-35210
Observed particularities during the eclipse of Epsilon Aurigae 24 p3960 N84-35214
HACK, W.
Elementary reactions of NH2 radicals in the gas, phase 3
[MPIS-2/1983] 05 p0652 N84-14285
Detection methods for atoms and radicals in the gas phase
[MPIS-1/1983] 10 p1577 N84-20334
Electronically excited products in the reactions of O(3PJ) atoms with halogenated ethenes
[MPIS-8/1983] 13 p2041 N84-23244
Primary patterns of electronically excited molecules in the gas phase 2
[MPIS-9/1983] 13 p2041 N84-23245
Primary processes of electronically excited molecules in vapor phase, part 3
[MPIS-12/1983] 18 p2930 N84-28582
HACKENBERG, R. G.
Emulation of a voice interactive Doppler navigation set
[AD-A140204] 16 p2446 N84-25687
HACKETT, L. H.
Ka-band Ga-As FET noise receiver/device development
[NASA-CR-175176] 10 p1484 N84-19705
HACKETT, R. M.
Three-dimensional vorticity procedure interactions in combustion instability analysis of solid propellant rocket motors 13 p1945 N84-22647
HACKLER, L. W.
Identification of exit taxiways (retroflective markers only)
[FAA-CT-83-5] 19 p2969 N84-28812
HACKMAN, J. R.
A normative model of work team effectiveness
[AD-A136398] 10 p1551 N84-20165
HACKMAN, S. T.
Production networks: A dynamic model of production
[AD-A133571] 06 p0933 N84-16065
HACKNEY, J. D.
Short-term human respiratory effects of nitrogen dioxide: Determination of quantitative dose-response profiles. Phase 1: Exposure of healthy volunteers to 4 PPM NO/sub 2
[PB84-132299] 10 p1548 N84-20148
HACKNEY, K. R. H.
Very recent IUE observations of 2 BL Lacertae orbits
15 p2424 N84-25561
HACKNEY, R. L.
Very recent IUE observations of 2 BL Lacertae orbits
15 p2424 N84-25561
HACKWELL, J. A.
Infrared measurements of AFGL (Air Force Geophysics Laboratory) sources
[AD-A133553] 06 p0938 N84-16098
HADDAD, G. I.
Development of innovative millimeter-wave broadband mixers
[AD-A136134] 09 p1310 N84-18562
HADDAD, H. A.
Microstrip antennas for SAR applications
07 p0987 N84-16396
HADEISHI, T.
Development of a continuous monitor for detection of toxic organic compounds
[PB83-234922] 03 p0378 N84-12461
HADLEY, A. T., III
Verification of an altitude decompression sickness prevention protocol for Shuttle operations utilizing a 10.s psi pressure stage
[NASA-TM-58259] 18 p2899 N84-28392
Pulmonary artery location during microgravity activity: Potential impact for chest-mounted Doppler during space travel
[NASA-TM-58262] 21 p3457 N84-31935
HADLEY, D. L.
Status of wind-turbine wakes research in the federal wind energy program
[DE83-013828] 01 p0005 N84-10033
HADLEY, D. M.
Determination of strong ground motion in complex structures using dynamic raytracing
[AD-A138559] 14 p2176 N84-24036
HADRAVA, P.
Radiative transfer in Roche coordinates
15 p2421 N84-25544
HADY, W. F.
Low wear partially fluorinated polyimides
[NASA-TM-83629] 15 p2301 N84-24808
An overview of the NASA rotary engine research program
[NASA-TM-83699] 19 p2965 N84-28791
HAEFELE, K.
Development of a self-adapted error-controlled difference method to solve the three-dimensional laminar incompressible boundary layer equations by numerically given contours determined by points
[REPT-24/83] 19 p3025 N84-29186
HAEGEL, N. M.
Performance and materials aspects of Ge:Be photoconductors
[NASA-CR-174470] 01 p0155 N84-11023
Performance and materials aspects of Ge:Be and Ge:Ga photoconductors for far-infrared detection
[DE84-003046] 07 p1081 N84-17029
HAEGGLUND, B.
Hazardous conditions in single enclosures subjected to fire
[FOA-C-20524-D6] 15 p2305 N84-24831
HAEHNER, C.
Engineering and design properties of thallium-doped sodium iodide and selected properties of sodium-doped cesium iodide
[NASA-RP-1131] 23 p3726 N84-33613
HAENDLER, W.
Theses and remarks of future development of calculators 16 p2549 N84-26359
HAERDLE, W.
Asymptotic maximal deviation of m-smoothers
[AD-A131906] 03 p0427 N84-12799
HAERENDEL, G.
Dynamics of quasineutral beams
05 p0639 N84-14201
The role of momentum transfer to the ambient plasma in critical velocity experiments 05 p0639 N84-14205
Colored bubbles: An experiment for triggering equatorial spread F 05 p0640 N84-14212
The Active Magnetospheric Particle Tracer Explorers (AMPTE) program 05 p0641 N84-14216
Plasma confinement and interaction experiments
05 p0641 N84-14218
Influence of wake and photoemission on electric field measurements with a double probe on GEOS-2
08 p1116 N84-17261
HAERING, E. A., JR.
Highly integrated digital engine control system on an F-15 airplane
[NASA-TM-86040] 15 p2262 N84-24587
HAERTEL, V.
Use of radiation curing for the production of coated fabrics, profiles, flocking
[BMFT-FB-T-83-176] 07 p0980 N84-16350
HAERTER, E. C.
Wake characteristics and interactions of the Canard/wing lifting surface configuration of the X-29 forward-swept wing flight demonstrator
[AD-A133188] 06 p0783 N84-15126
HAESSLER, H.
Comparative study of TiN hard coatings produced by reactive sputtering, ion-plating and CVD technique
[BLL-RARDE-TR-1094(7291.7965)]
06 p0804 N84-15236
HAEUSLER, B.
Dynamics of quasineutral beams
05 p0639 N84-14201
HAEUSLER, G.
Instabilities and chaos in TV-optical feedback
14 p2237 N84-24422
HAEUSLER, K. R.
Computer-Integrated Manufacturing (CIM): Turning visions to reality
[DE83-015481] 01 p0091 N84-10593
HAFENRICHTER, R.
New digital Integrated Circuit (IC) concept for color TV receivers
[BMFT-FB-T-83-261] 10 p1488 N84-19729
HAFEZ, M. M.
Analysis of transonic shock induced separated flow including normal pressure gradients
[AD-A137052] 10 p1422 N84-19298
Entropy condition satisfying approximations for the full potential equations of transonic flow
[NASA-TM-85751] 11 p1601 N84-20485
A modified least squares formulation for a system of first order equations
[NASA-CR-172372] 19 p3082 N84-29557
HAFF, K. W.
Multi-isotopic gamma ray assay system for alpha contaminated waste
[DE83-015254] 02 p0292 N84-11917
Evaluation of arctic test of tritium radioluminescent lighting
[AD-A139176] 14 p2104 N84-23619
HAFIZI, B.
Nonlinear orbits in free-electron lasers with a linear magnetic wiggler and a strong axial magnetic guide field
[AD-A135984] 09 p1323 N84-18642
Ballooning precessional instabilities in a single cell hot electron plasma
[DE84-007017] 14 p2230 N84-24373
HAFTKA, R. T.
Simultaneous analysis and design
[NASA-CR-172334] 12 p1826 N84-21902
Selection of actuator locations for static shape control of large space structures by heuristic integer programing
[NASA-TM-85769] 17 p2616 N84-26741
HAGA, T.
P-valued input, Q-valued output threshold logic and its application to the synthesis of P-valued logical networks
[AD-P002336] 14 p2190 N84-24127

HAGAN, D. E.
On surface circulation of the eastern north Pacific
02 p0257 N84-11682
HAGAN, M. P.
Modelling of ionospheric irregularities and total electron content
[AD-A141236] 18 p2880 N84-26284
HAGAN, R.
Dynamic changes of phase in a van der Waals fluid
[AD-A141708] 19 p3024 N84-29178
HAGAN, W. K.
d-d Tokamak reactor assessment
[DE83-016127] 04 p0609 N84-14019
HAGEDORN, N. H.
Negative electrode catalyst for the iron-chromium REDOX energy storage system
[NASA-CASE-LEW-14028-1] 22 p3616 N84-32909
HAGELSTEIN, P.
Experiments to study the feasibility of making an X-ray laser at the Novette laser facility
[DE83-015615] 03 p0380 N84-12476
Soft X-ray laser experiments at Norvette Laser Facility
[DE84-012594] 21 p3410 N84-31627
HAGEMANN, D. W.
Space Shuttle Orbiter improved auxiliary power unit
20 p3144 N84-29965
HAGEMANN, M.
System for Application oriented Requirement Specification (SARS)
[BMFT-FB-DV-83-006] 12 p1885 N84-22286
HAGEN, G.
Chronic effects of repeated mechanical trauma to the skin: A description of the problem in the workplace
[PB84-181767] 20 p3261 N84-30695
HAGEN, T.
Vanguard concentration 18 p2873 N84-28244
HAGENBERG, T. H. M.
Flight Track and Aircraft Noise Monitoring System (FANAMOS)
[NLR-MP-83043-U] 17 p2725 N84-27343
The microwave landing system (MLS)
[NLR-MP-83070-U] 23 p3692 N84-33399
HAGENBUCHER, W.
Electronics in weapon systems
[MBB-UA-768-83-O] 14 p2143 N84-23850
HAGENLOCHER, A. K.
Investigation of soft X-ray reflective coatings
[DE84-000510] 04 p0610 N84-14025
HAGENSON, R. L.
Plasma engineering design of a Compact Reversed-Field Pinch Reactor (CRFPR)
[DE84-004334] 10 p1586 N84-20394
HAGER, B. H.
Lower mantle heterogeneity, dynamic topography and the geoid
[NASA-CR-173621] 16 p2521 N84-26184
A critical assessment of viscous models of trench topography and corner flow
[NASA-CR-173648] 17 p2667 N84-27005
HAGFORS, T.
Plasma Physics on auroral field lines: The formation of ion conic distributions
[NASA-CR-173683] 18 p2932 N84-28595
HAGGARD, J. B., JR.
Effects of broadened property fuels on radiant heat flux to gas turbine combustor liners
[NASA-TM-83537] 07 p1001 N84-16494
HAGGERTY, J. J.
Spinoff, 1983
[NASA-TM-85475] 03 p0461 N84-13033
Spinoff, 1984
[NASA-TM-85596] 22 p3676 N84-33305
HAGGERTY, J. S.
Sinterable ceramic powders from laser heated gas phase reactions and rapidly solidified ceramic materials
[AD-A144439] 24 p3889 N84-34627
HAGIWARA, M.
Irradiation effects on the mechanical properties of composite organic insulators
[DE83-014703] 01 p0032 N84-10202
HAGLER, A. T.
Computer simulation of protein systems
10 p1559 N84-20214
HAGLER, M.
Coordinated research program in pulsed power physics
[AD-A129554] 01 p0138 N84-10905
Coordinated research program in pulsed power physics
[AD-A139321] 14 p2142 N84-23843
HAGLER, M. O.
Workshop on Repetitive Spark Gap Operation
[AD-A132688] 05 p0675 N84-14438
HAGSTROM, T.
The numerical calculation of traveling wave solutions of nonlinear parabolic equations on the line
[AD-A139238] 14 p2212 N84-24283
Exact boundary conditions at an artificial boundary for partial differential equations in cylinders
[AD-A139310] 14 p2213 N84-24292
HAGUE, D. O., JR.
Digital capability for cockpit television sensor instrumentation systems
[AD-A139432] 14 p2106 N84-23628
HAGYARD, M. J.
The new MSFC Solar vector magnetograph. Center director's discretionary fund
[NASA-TM-82568] 10 p1497 N84-19786
Studies of solar magnetic fields during the solar maximum year
[NASA-TM-86469] 24 p3992 N84-35265
HAHL, U.
CTX: A system for computer-aided indexing
[BMFT-FB-ID-83-006] 02 p0303 N84-11986
HAHN-HAEGERDAL, B.
Suggestions concerning technological research and development for the purpose of industrial use of marine algae
[ISSN-0077-5606] 05 p0711 N84-14661
HAHN, D. A.
A microstrip time delay circuit on barium tetratitanate
[AD-A138026] 12 p1811 N84-21807
HAHN, H.
Concept of a safety system for a servohydraulic test facility 03 p0339 N84-12202
Mathematical modeling and simulation of multiaxis hydraulic test facilities 03 p0339 N84-12204
Simulation of electro-servo-hydraulic actuator for high quality testing 03 p0340 N84-12206
Simulation of mechanical cross coupling of multiaxes vibration facilities 03 p0340 N84-12207
Suitability of viscoelastic materials for nutation damping of spin-stabilized satellites
[ILR-55] 09 p1272 N84-18307
HAHN, H. H.
Investigation to diminish the heavy metal concentrations in sewage sludges with organic complexing reagents
[BMFT-FB-T-83-158] 07 p1027 N84-16660
HAHN, H. T.
Compression failure mechanisms in unidirectional composites
[NASA-TM-85834] 23 p3711 N84-33523
HAHN, P.
Spallation and 14-MeV neutron irradiation of stabilized NbTi superconductors
[DE83-017973] 03 p0368 N84-12394
HAHN, S.
Calculations of composition boundaries of saturated phases
[DE84-001665] 04 p0499 N84-13274
HAHN, W.
A method for obtaining new derived benzimidazoles
[AD-A144320] 24 p3867 N84-34507
HAHNE, A.
Diffusion profiles in microgravity protein crystallization experiments 23 p3805 N84-34125
HAHNE, E.
Technical use of solar energy: Conversion from solar to thermal energy, solar cooling and thermal energy storage
[BMFT-FB-T-83-300] 15 p2362 N84-25173
HAI, F.
DC (Direct-Current) partial-discharge-environmental screening of space TWTs (Traveling Wave Tubes)
[AD-A143230] 22 p3586 N84-32710
HAI, N. X.
The Fourier Plancherel transform of the analytic Lie group. 1: Weyl algebras and differential operators
13 p2032 N84-23176
The Fourier Plancherel transform for Lie groups. 2: Nilpotent groups 22 p3634 N84-33026
HAIDER, B.
Report on measurements of terrestrial radiation in the Schwandorf area and the radiological load of the river Naab
[GSF-A-6/83] 16 p2520 N84-26180
HAIDT, J. G.
Technology transfer of the air quality assessment model
[AD-A139582] 14 p2173 N84-24018
HAIDVOGEL, D.
Waves and circulation driven by oscillatory winds in an idealized ocean basin
[AD-P002650] 11 p1689 N84-21015
HAIGHT, R. C.
Radioactive-ion-beam research at Livermore
[DE83-014872] 02 p0297 N84-11946
HAILE, C.
Comprehensive assessment of the specific compounds present in combustion processes. Volume 1: Pilot study of combustion emissions variability
[PB84-140870] 11 p1630 N84-20685
HAILER, F.
An inductive process in automatic recording of crack propagation
[ISD-298] 16 p2502 N84-26056
HAILEY, C. J.
The development of an imaging gas scintillation proportional counter for use in X-ray astronomy
04 p0618 N84-14079
HAIMERL, M.
A new Traveling Wave Tube (TWT) cooling concept
10 p1445 N84-19438
Study of wind scatterometer antenna for ERS-1. Volume 1: Executive summary report
[Y/A-3380] 13 p2017 N84-23080
Study of windscatterometer antenna for ERS-1
[MIX/A-3188] 13 p2018 N84-23081
HAIN, K.
Electrostatic equations for large scale plasma simulation studies
[AD-A143640] 23 p3828 N84-34277
HAINES, A. B.
Aerodynamic interference: A general overview
03 p0318 N84-12060
External stores interference 03 p0318 N84-12063
HAINES, D. M.
A statistical channel model for adaptive HF communications via a severely disturbed ionosphere
[AD-A141237] 18 p2829 N84-27960
HAINES, M. G.
The Z-pinch program at Imperial College
10 p1583 N84-20372
HAINES, P. A.
Survey of urban meteorological data
[AD-A140890] 17 p2734 N84-27380
HAINES, R. F.
Simulator scene display evaluation
[NASA-CASE-ARC-11504-1] 07 p0960 N84-16221
HAINS, F. D.
Fluid-structure interaction by the method of characteristics 10 p1510 N84-19884
HAIRE, M.
Measurement of the energy resolution and related properties of an SCG1-C scintillation glass shower counter array for 1 to 25 GeV positrons
[DE84-007246] 14 p2148 N84-23871
HAIRE, M. J.
Reliability and maintainability data acquisition in equipment development tests
[DE84-002994] 07 p1084 N84-17051
HAIRSTON, J.
General aviation pilot and aircraft activity survey
[PB84-154301] 14 p2100 N84-23602
HAIRUN, L.
The growth and measurement of single-crystal doped GGG (Gd3-xCaxGa5-xZrx012)
[AD-A131875] 03 p0452 N84-12971
HAISCH, B. M.
Coordinated IUE and ground-based observations of active stars: Flare events on YZ CMi, V 1005 ORI, AD Leo and AR Lac 24 p3975 N84-35177
HAISLER, W.
Research on composite materials for structural design
[AD-A134059] 05 p0645 N84-14242
HAITOVSKY, Y.
The linear hierarchical model and its application in the econometric analysis
[CSIR-TWISK-274] 04 p0587 N84-13875
HAJDASINSKI, A. K.
The Page Matrix: An excellent tool for noise filtering of Markov parameters, order testing and realization
[EUT-82-E-127] 10 p1489 N84-19735
HAJEK, T.
Variable stator radial turbine
[NASA-CR-174663] 13 p1932 N84-22568
HAJELA, D. P.
Accuracy estimates of gravity potential differences between western Europe and United States through Lageos satellite laser ranging network
[AD-A131838] 03 p0408 N84-12669
HAKAMADA, K.
Solar wind disturbances in th outer heliosphere caused by successive solar flares from the same active region
03 p0472 N84-13104
HAKIM, K.
Metal oxide anodes for the photoelectrochemical generation of oxygen
[DE84-004168] 10 p1456 N84-19511
HAKIMI, F.
Optical propagation and communication
22 p3683 N84-33355

HAKKINEN, M. T.
GENIE: A computer-based task for experiments in human-computer interaction
[AD-A137473] 10 p1553 N84-20181
HAKLUYTT, J. P. D.
The design and performance of a combustor with a multiple jet primary zone 15 p2291 N84-24749
HALAWANI, T. U.
A 2-step bilinear filtering approximation
[AD-A138350] 12 p1894 N84-22338
HALBACH, K.
High gain free electron laser at ETA
[DE84-002001] 05 p0686 N84-14512
HALBERT, D. D.
LEC system development 18 p2874 N84-28248
HALBERT, M. L.
Heavy-ion reaction mechanisms studied with the spin spectrometer
[DE83-015716] 01 p0144 N84-10950
HALBLEIB, J. A.
Grad-B drift transport of high current electron beams
[DE84-000115] 04 p0602 N84-13977
HALCOMB, L. L.
Vibrational relaxation of diatomic molecules in solids at low temperatures 10 p1559 N84-20217
HALDEMAN, D. G.
Multibus Avionic Architecture Design Study (MAADS)
[AD-A138226] 12 p1770 N84-21546
HALE, A. D.
Innovative method for the thermal cycling of large spacecraft systems 24 p3861 N84-34470
HALE, C. P.
Photoemissive materials for 0.35 Micron laser fiducials in X-ray streak cameras
[DE84-008348] 20 p3194 N84-30283
HALE, G.
High energy electromagnetic shower position measurement by a fine grained scintillation hodoscope 06 p0912 N84-15928
A measurement of the response of an SCG1-C scintillation glass shower detector to 2-17.5 GeV positrons 06 p0913 N84-15930
Measurement of the energy resolution and related properties of an SCG1-C scintillation glass shower counter array for 1 to 25 GeV positrons
[DE84-007246] 14 p2148 N84-23871
Measurement of electromagnetic shower position and size with a saturated avalanche tube hodoscope and a fine grained scintillation hodoscope
[DE84-007247] 15 p2337 N84-25032
HALE, G. M.
IEEE 488 bus pseudo-controller linking talker with listener
[DE84-007093] 12 p1878 N84-22238
HALE, I. D.
Dip-moveout by Fourier transform 06 p0876 N84-15699
HALE, J. K.
Stable equilibria in a scalar parabolic equation with variable diffusion
[AD-A131221] 01 p0134 N84-10877
Introduction to dynamic bifurcation
[AD-A133252] 06 p0901 N84-15846
Smoothness of bounded solutions of nonlinear evolution equations
[AD-A135294] 08 p1219 N84-17958
Orbit connections in a parabolic equation
[AD-A135986] 09 p1378 N84-18999
Abelian integrals and bifurcation theory
[AD-A142198] 19 p3089 N84-29613
Symbolic dynamics and nonlinear semiflows
[AD-A143487] 22 p3646 N84-33117
Analysis, modeling and control of dynamical systems
[AD-A143937] 23 p3818 N84-34209
HALE, K. L.
Linguistics 22 p3684 N84-33359
HALE, R. C.
Geologic map and mineral resources summary of the Farner Quadrangle, Tennessee and North Carolina
[DE83-902886] 02 p0240 N84-11576
HALE, R. R.
Solar energy modulator
[NASA-CASE-NPO-15368-1] 18 p2867 N84-28203
HALEM, M.
Computer simulations of space-borne meteorological systems on the CYBER 205 10 p1558 N84-20210
Simulation studies of proposed observing systems and their impact on numerical weather prediction 12 p1850 N84-22050
Observing system simulation experiments related to space-borne Lidar wind profiling. Part 1: Forecast impacts of highly idealized observing systems 12 p1850 N84-22052
Observing system simulation experiments related to space-borne Lidar wind profiling. Part 2: Sensitivity to atmospheric and instrumental influences 12 p1850 N84-22053
FGGE data impact studies in the Southern Hemisphere 12 p1850 N84-22054
SASS wind forecast impact studies using the GLAS and NEPRF systems: Preliminary conclusions 12 p1851 N84-22055
The impact of scatterometer wind data on global weather forecasting 17 p2720 N84-27314
HALES, C.
Creep-rupture behavior of candidate Stirling engine iron superalloys in high-pressure hydrogen. Volume 2: Hydrogen creep-rupture behavior
[NASA-CR-174705] 19 p2992 N84-28961
HALEY, J. L.
Impact and vibration testing of a modified UH-1 crew seat
[AD-A130279] 01 p0117 N84-10760
HALEY, J. L., JR.
Energy-absorbing earcup engineering feasibility evaluation
[AD-A144179] 24 p3938 N84-34924
HALFORD, G. R.
Complexities of high temperature metal fatigue: Some steps toward understanding
[NASA-TM-83507] 05 p0691 N84-14541
Tensile and compressive constitutive response of 316 stainless steel at elevated temperatures
[NASA-TM-83506] 06 p0805 N84-15249
Bending fatigue of electron-beam-welded foils. Application to a hydrodynamic air bearing in the Chrysler/DOE upgraded automotive gas tubine engine
[NASA-TM-83539] 07 p1016 N84-16589
Preliminary study of thermomechanical fatigue of polycrystalline MAR-M 200
[NASA-TP-2280] 08 p1130 N84-17350
Engine cyclic durability by analysis and material testing
[NASA-TM-83577] 09 p1330 N84-18683
HALFPAP, D. S.
Manufacturing developments to reduce strategic materials usage 23 p3703 N84-33475
Coating developments to restrict strategic materials usage 23 p3704 N84-33483
HALFPENNY, P. J.
The influence of lattice imperfections on the chemical reactivity of solids. The growth, perfection and defect properties of PETN (pentaerythritol tetranitrate) and RDX (cyclotrimethylene trinitramine) single crystals, part 1
[AD-A141271] 18 p2941 N84-28651
The influence of lattice imperfections on the chemical reactivity of solids. The growth, perfection and defect properties of PETN (pentaerythritol tetranitrate) and RDX (cyclotrimethylene trinitramine) single crystals, part 2
[AD-A141272] 18 p2941 N84-28652
HALICIOGLU, M. T.
Computer simulation of surface and film processes
[NASA-CR-173682] 21 p3419 N84-31682
HALL, A. J.
Design considerations of a proposed UK VHF radar 17 p2692 N84-27142
HALL, C.
Computational fluid dynamics at the ICMA (Institute of Computational Mathematics and Applications)
[AD-A143510] 22 p3594 N84-32759
HALL, C. J.
On the unsteady response of an oceanic front to local atmospheric forcing
[AD-A132215] 05 p0708 N84-14637
HALL, C. M.
Investigation of new concepts for designing millimetre-wave antennas
[AD-A137350] 10 p1479 N84-19663
HALL, D. A.
Stinger post hybrid simulation: Design description and users' manual
[AD-A130027] 01 p0122 N84-10791
Pershing II simulation studies. Debris dynamics and 2.75 rocket 6-DOF (Degree Of Freedom)
[AD-A139130] 14 p2113 N84-23663
HALL, D. D.
Active reliability engineering, technical concept and program plan. A solid-state systems approach to increased reliability and availability in military systems
[AD-A137541] 11 p1666 N84-20866
HALL, D. G.
Bistable operation of two semiconductor lasers in an external cavity: Rate-equation analysis 14 p2233 N84-24400
HALL, D. L.
ALDS project: Motivation, statistical database management issues, perspectives, and directions
[DE84-001412] 05 p0760 N84-14983
HALL, D. W.
A preliminary study of solar powdered aircraft and associated power trains
[NASA-CR-3699] 04 p0486 N84-13194
Structural sizing of a solar powered aircraft
[NASA-CR-172313] 16 p2448 N84-25702
HALL, E. E.
Environmental assisted fracture of cast and wrought steels in brine
[DE84-011870] 20 p3158 N84-30058
HALL, F. F., JR.
Atmospheric infrared backscatter:: Summary of present knowledge and recommendations for future work
[PB83-222281] 01 p0106 N84-10690
HALL, F. G.
Preliminary evaluation of Thematic Mapper image data quality 20 p3214 N84-30415
Spectral characterization of biophysical characteristics in a boreal forest: Relationship between Thematic Mapper band reflectance and leaf area index for Aspen 23 p3766 N84-33875
HALL, G. R.
A generalization of Denjoy's theorem on diffeomorphisms of the circle
[AD-A130575] 01 p0130 N84-10848
A topological version of a theorem of Mather on twist maps
[AD-A137950] 11 p1716 N84-21189
HALL, G. W.
Flight testing the Rotor Systems Research Aircraft (RSRA)
[NASA-TM-85852] 04 p0483 N84-13177
HALL, H. J.
Services for the analysis and evaluation of information
[PB84-104504] 08 p1241 N84-18113
HALL, J.
Nonlaboratory techniques for the study of cognitive and decision-making processes: A description and selected bibliography
[AD-A141732] 19 p3067 N84-29458
HALL, J. C.
Performance and safety to NAVSEA instruction 9310.1A of lithium-thionyl chloride reserve batteries 23 p3737 N84-33679
HALL, J. F., II
Documentation for software maintenance
[AD-A138663] 13 p2028 N84-23152
HALL, J. L.
Elysium Region, Mars: Characterization of tectonic features 13 p2089 N84-23534
HALL, J. R.
Assessment of Thematic Mapper band-to-band registration by the block correlation method 20 p3210 N84-30396
HALL, J. R., JR.
Civilian residential fire fatality rates: Six high-rate states versus six low-rate states
[PB84-102615] 08 p1142 N84-17427
Decision analysis model for passenger-aircraft fire safety with application to fire-blocking of seats
[AD-A142477] 20 p3127 N84-29859
HALL, K. C.
Optimal mistuning for enhanced aeroelastic stability of transonic fans
[NASA-CR-173179] 07 p0953 N84-16180
HALL, K. R.
Thermodynamic properties for natural gas binaries
[PB83-228403] 01 p0157 N84-11031
HALL, L.
OTS (Office of Toxic Substances) Information Architecture Notebook
[PB84-188655] 21 p3520 N84-32301
HALL, L. A.
Stratospheric determination of effective photodissociation cross sections for molecular oxygen: 191-204 nm
[AD-A134168] 07 p1034 N84-16706
HALL, L. R.
The use of remote sensing for soils investigations on BLM lands
[PB84-132075] 10 p1527 N84-20005
HALL, M. P. M.
A GaAs refractometer for tropospheric studies 15 p2324 N84-24952
HALL, M. S.
Numerical simulations of compliant material response to turbulent flow
[DE84-004365] 11 p1654 N84-20800
HALL, P.
On the stability of the unsteady boundary layer on a cylinder oscillating transversely in a viscous fluid
[NASA-CR-172216] 01 p0076 N84-10499
The evolution equations for Taylor vortices in the small gap limit
[NASA-CR-172249] 01 p0077 N84-10501

Complex eigenvalues for the stability of Couette flow [NASA-CR-172251] 04 p0531 N84-13492
On the stability of an infinite swept attachment line boundary layer [NASA-CR-172300] 10 p1420 N84-19285
The Goertler vortex instability mechanism in three-dimensional boundary layers [NASA-CR-172370] 19 p3021 N84-29158

HALL, P. H.
SPECAN (Spectral Analysis): A program in ACSL for stochastic time series analysis [AD-A133719] 05 p0728 N84-14777

HALL, P. S.
Combined environment test of Sangamo Weston SABRE 12 airborne recorder [AD-A131278] 02 p0223 N84-11463

HALL, R. H.
Mapping, charting and geodesy at the Defense Mapping Agency [AD-A130344] 01 p0100 N84-10650

HALL, R. J.
Monitored retrievable storage program. Status and plans for meeting NWPA requirements [DE84-008680] 18 p2931 N84-28585

HALL, R. L.
Computer-Aided Structural Engineering (CASE) project. User's guide: Computer program to Calculate Shear, Moment and Thrust (CSMT) from stress results of a two-dimensional finite element analysis [AD-A134089] 05 p0726 N84-14768
Analyzing sliding stability of structures using the modified computer program GWALL, revision [AD-A136954] 10 p1517 N84-19934
CASE (Computer-Aided Structural Engineering) study of 6 major general-purpose finite element programs [AD-A139065] 13 p2001 N84-22986

HALL, S.
Use of self assessment in estimating levels of skill retention [AD-P003345] 18 p2911 N84-28465

HALL, S. A.
Information theoretic models of memory in human decisionmaking models [AD-P002883] 13 p1978 N84-22844
Structural sizing of a solar powered aircraft [NASA-CR-172313] 16 p2448 N84-25702

HALL, S. M.
The effects of high frequency positive pressure ventilation on hypoxic pulmonary vasoconstriction 10 p1549 N84-20151

HALL, W.
An ER-2 aircraft airborne lidar as part of the development program of a spaceborne system: A potential NASA/CNES cooperative project 24 p3907 N84-34744

HALL, W. B.
An evaluation of Techroll seal flexible joint material 06 p0929 N84-16037
Advanced motor-controller development [AD-A140299] 16 p2484 N84-25934
Materials testing of the IUS techroll seal material [NASA-TM-86462] 22 p3604 N84-32629

HALL, W. F.
Research on ferroelectric materials for millimeter wave application [AD-A137128] 10 p1588 N84-20405

HALL, W. G.
Programmer's manual for the fire safety evaluation system cost minimizer computer program [PB83-251447] 04 p0517 N84-13395

HALL, W. H.
Techniques for interbus communication in a multibus avionic system 06 p0771 N84-15050

HALL, W. N.
Charged particle effects on space systems [AD-P002103] 16 p2522 N84-26189
Space systems environmental interactions technology program [AD-P002125] 16 p2525 N84-26211

HALLAM, C. A.
Land use and land cover digital data [GS-CIRC-895-E] 10 p1525 N84-19987

HALLAUER, W. L., JR.
Experimental study of active vibration control [AD-A133818] 05 p0692 N84-14546

HALLBERG, F. C.
Workpiece positioning vise [NASA-CASE-GSC-12762-1] 18 p2848 N84-28083

HALLE, H.
Tube vibration in industrial-size test heat exchanger (90 deg square layout) [DE83-011931] 06 p0862 N84-15614

HALLE, J. E.
Energy efficient engine fan component detailed design report [NASA-CR-165466] 18 p2795 N84-27737

HALLE, M.
Speech communication 22 p3684 N84-33358
Linguistics 22 p3684 N84-33359

HALLEN, D.
Economic use of CBN grinding tools in the production of jet turbine components [CSIR-TRANS-1736] 22 p3563 N84-32561

HALLER, E. E.
Performance and materials aspects of Ge:Be photoconductors [NASA-CR-174470] 01 p0155 N84-11023
Deep level impurities in germanium and silicon: Low temperature passivation or removal techniques [DE84-006772] 13 p2048 N84-23286

HALLER, R.
Amplitude Compandored Sideband compared to conventional frequency modulation for VHF mobile radio: Laboratory and field testing results [PB84-116383] 08 p1148 N84-17474
Improving the legibility of computer printouts [BMFT-FB-DV-84-001] 16 p2542 N84-26315

HALLER, W.
Supersonic STOVL ejector aircraft from a propulsion point of view [NASA-TM-83641] 15 p2261 N84-24581

HALLERMANN, L.
Interdisciplinary aspects of technical measurements 02 p0233 N84-11530

HALLERMAYER, R.
Improvement of flat plate collectors for solar energy conversion [BMFT-FB-T-84-042] 16 p2519 N84-26167

HALLIBURTON, L. E.
Study of defects produced by the growth, post treatment and fabrication of quartz [AD-A138327] 12 p1914 N84-22471
Study of defects produced by the growth, post treatment and fabrication of quartz [AD-A139834] 15 p2413 N84-25485

HALLICK, T. M.
Advanced air revitalization system testing [NASA-CR-166540] 08 p1205 N84-17855

HALLIKAINEN, M.
Dielectric measurements of soils in the 3 to 37 GHz band between -50C and 23C 23 p3768 N84-33883
The dielectric behavior of snow in the 3 to 37 GHz range 23 p3768 N84-33884

HALLIN, P.
Effectiveness of a device for detection of bacteriological aerosols; improvements in standardization and sensitivity in the laboratory [FOA-C-40175-B2] 10 p1546 N84-20132

HALLINAN, E. J.
Practical writing and editing techniques [DE84-012642] 21 p3519 N84-32294

HALLINAN, T.
Optical measurements of a large-scale laboratory Beam Plasma Discharge (BPD) 05 p0638 N84-14196

HALLMANN, W.
Development of a simple wind speedometer for application in countries of the developing world [BMFT-FB-T-83-310] 15 p2336 N84-25022

HALLNOR, G. H.
Frequency domain digital filtering with VLSI 09 p1400 N84-19142

HALLOFF, E.
Ballistic impact on carbon fiber reinforced epoxy composites [FOA-C-20497-F9] 02 p0189 N84-11227

HALLORAN, J. W.
Oxygen diffusion in alpha-Al2O3 [NASA-TM-83622] 19 p2997 N84-28990

HALLQUIST, J. O.
Lecture notes for Bulk and Hourglass Viscosities in Wave Propagation Codes [DE83-013042] 01 p0068 N84-10445
MAZE: An input generator for DYNA2D and NIKE2D [DE83-016415] 02 p0274 N84-11795
Lecture notes for contact-impact algorithms for large-deformation finite-element analysis [DE83-013039] 03 p0426 N84-12789
Efficient large-scale finite-element computations in a CRAY environment [DE83-014946] 06 p0896 N84-15818
DYNA3D user's manual. Nonlinear dynamic analysis of solids in three dimensions, revision 1 [DE84-012828] 21 p3466 N84-31979

HALOULAKOS, V. E.
Fluidic thrust vector control thruster development 20 p3141 N84-29940

HALPERN, D.
Satellite data relay and platform locating in oceanography. Report of the In Situ Ocean Science Working Group [NASA-TM-85443] 12 p1860 N84-22116
The variability of the surface wind field in the equatorial Pacific Ocean: Criteria for satellite measurements 17 p2717 N84-27296

HALPERN, J. B.
Two photon excitation as a tool for atmospheric and kinetic research [NASA-CR-175378] 08 p1228 N84-18026

HALSEY, G. W.
The 12 micron band of ethane: A spectral catalog from 765 cm(-1) to 900 cm(-1) [NASA-TM-85108] 10 p1454 N84-19483

HALSTEAD, J.
Ceramic component manufacturing technology development [PB84-215276] 22 p3561 N84-32550

HALSTEAD, T. W.
NASA space biology accomplishments, 1982 [NASA-TM-86244] 04 p0488 N84-13206
NASA Space Biology Program. Eighth annual symposium's program and abstracts [NASA-CP-2299] 09 p1351 N84-18829
NASA space biology accomplishments, 1983-84 [NASA-TM-86654] 20 p3256 N84-30664

HALSTEAD, W. J.
Criteria for use of asphalt friction surfaces [PB84-155613] 14 p2135 N84-23798

HALTER, E.
Solution of the Riemann problem for a polytropic gas [REPT-22] 10 p1457 N84-19517

HALVERSON, D. R.
Signal detection and block truncation coding for image compression [AD-A141162] 18 p2829 N84-27958

HALVORSON, P. F.
Geophysical exploration surveys for ground water in the San Pedro Basin, Arizona [PB84-110808] 08 p1179 N84-17684

HALYO, N.
Algorithms for output feedback, multiple-model, and decentralized control problems 11 p1617 N84-20583
Investigation and appreciation of optimal output feedback. Volume 1: A convergent algorithm for the stochastic infinite-time discrete optimal output feedback problem [NASA-CR-3828] 21 p3344 N84-31217
investigation, development and application of optimal output feedback theory. Volume 2: Development of an optimal, limited state feedback outer-loop digital flight control system for 3-D terminal area operation [NASA-CR-3829] 21 p3344 N84-31218

HAM, D.
Experimental and theoretical studies of laser propulsion phenomenology [AD-A140995] 18 p2846 N84-28069

HAM, J.
Research on composite materials for structural design [AD-A134059] 05 p0645 N84-14242

HAMADA, T.
A new procedure of objective target cloud selection for the GMS cloud wind estimation system and the accuracy of the resultant wind vectors 24 p3921 N84-34819

HAMADA, Y.
Alpha-particle simulation using NBI beam and ICRF wave [IPPJ-688] 23 p3827 N84-34270

HAMAGUCHI, K.
Heat transfer characteristics of regenerator matrix (case of packed wire gauzes) [NASA-TM-77448] 24 p3899 N84-34693

HAMANA, S.
Fine pointing control of the solar UV telescope on the sounding rocket S-520-5 [ISAS-608] 06 p0938 N84-16094

HAMANN, R.
Engineering services in support of the AFGL sounding rocket program [AD-A131929] 03 p0340 N84-12211

HAMANN, W. R.
Mass loss from the central star of NCG 3242 24 p3977 N84-35194

HAMASAKI, S.
The 2-step ECRH current-drive study [DE83-012745] 01 p0150 N84-10983

HAMBLEN, J. O.
The design and performance of a parallel computer architecture for simulation 22 p3637 N84-33054

HAMED, G. R.
Science of adhesion [PB84-176734] 16 p2473 N84-25852

HAMEETMAN, G. J.
Reliability and flexibility of the Infrared Astronomical Satellite (IRAS) on-board software 05 p0724 N84-14756

The creation of the NLR benchmark package and the performance of two new CDC computers with it
[NLR-MP-82015-U] 06 p0896 N84-15819
Reprogrammable onboard mission of IRAS
[NLR-MP-83014-U] 13 p1937 N84-22600
HAMEISTER, R.
Models of maintenance resources interaction: Peacetime operations
[AD-A131379] 03 p0457 N84-13011
HAMEL, P.
Contributions of flight mechanics to civil air traffic 07 p0944 N84-16124
HAMEL, S. R.
Design and analysis of a generalized class of fin-line filters
[AD-A136050] 09 p1309 N84-18558
HAMEL, W. R.
Robotics-related technology in the nuclear industry
[DE83-017131] 06 p0893 N84-15799
Human factors in remote control engineering development activities
[DE84-003201] 12 p1868 N84-22176
Advancement of remote technology: Past perspectives and future plans
[DE84-006517] 18 p2849 N84-28092
Advanced teleoperation in nuclear applications: Consolidated fuel reprocessing program
[DE84-011631] 20 p3197 N84-30303
Advancement of remote systems technology: Past perspectives and future plans
[DE84-011460] 20 p3198 N84-30309
Basis research on intelligent robotic systems operating in hostile environments: New developments at ORNL
[DE84-011464] 21 p3414 N84-31647
HAMER, B. J. G.
Resonance in the water circuit of a cooling tower
[S/T-REPT-VOL-1-NO-2] 20 p3188 N84-30254
HAMER, H. A.
Decoupled control analysis of a large flexible space antenna with linear quadratic regulator comparisons
[NASA-TP-2293] 14 p2115 N84-23675
HAMER, P. G.
Requirements on reliability models, and their consequences 05 p0723 N84-14740
HAMILL, P.
Proceedings of a Workshop on Polar Stratospheric Clouds: Their Role in Atmospheric Processes
[NASA-CP-2316] 22 p3622 N84-32952
HAMILTON, B.
Development, test and delivery of solid propellant generators for inflation of PFD's
[AD-A130477] 21 p3460 N84-31946
HAMILTON, D.
Solidification rate influence on orientation and mechanical properties of MAR-M-246+Hf
[NASA-TM-82558] 05 p0653 N84-14290
HAMILTON, D. J.
Development of thermionic integrated circuits for applications in hostile environments
[DE84-011374] 21 p3393 N84-31533
HAMILTON, H. D.
Assessing and displaying the effects of elevated trapping layers in support of Navy command and control
[AD-A142216] 19 p3008 N84-29065
HAMILTON, H. H., II
A review of preflight estimates of real-gas effects on space shuttle aerodynamic characteristics 01 p0020 N84-10129
Orbiter catalytic/noncatalytic heat transfer as evidenced by heating to contaminated surfaces on STS-2 and STS-3 01 p0024 N84-10153
Filler bar heating due to stepped tiles in the shuttle orbiter thermal protection system 01 p0024 N84-10155
HAMILTON, J. R.
Historical inflation program. A computer program generating historical inflation indices for Army aircraft: Revision
[AD-A137670] 11 p1599 N84-20474
HAMILTON, J. T.
Launch vehicle aerodynamic data base development comparison with flight data 01 p0018 N84-10117
Space shuttle launch vehicle aerodynamic uncertainties: Lessons learned 01 p0019 N84-10118
HAMILTON, K.
Monthly mean determination of the solar semidiurnal surface pressure oscillation at Batavia from 1866 through 1944
[PB84-184795] 20 p3244 N84-30593
HAMILTON, L. J.
Comparisons of sea-surface temperature obtained from ship and satellite data
[AD-A138257] 13 p2018 N84-23087
HAMILTON, M. L.
Use of the disk bend test to assess irradiation performance of structural alloys
[DE84-001484] 06 p0806 N84-15255
Correlation of fracture toughness with tensile properties for irradiated 20% cold-worked 316 stainless steel
[DE84-003954] 08 p1135 N84-17379
HAMILTON, M. W.
Polarization switching with J=1/2 to J=1/2 atoms in a ring cavity 14 p2237 N84-24423
Polarization switching with sodium vapour 14 p2239 N84-24445
HAMILTON, P.
Long-term salinity, temperature and current measurements in upper Chesapeake Bay
[PB84-180280] 20 p3251 N84-30636
South Atlantic physical oceanography study (year 5). Volume 1: Executive summary
[PB84-187855] 21 p3451 N84-31899
HAMILTON, T. D.
Glaciation in Arctic Alaska 14 p2165 N84-23965
HAMILTON, W.
Configuration of eastern Gondwanaland 14 p2160 N84-23936
HAMILTON, W. P., III
Local automation model: Functional description
[AD-A133389] 06 p0935 N84-16077
Local automation model: System specification
[AD-A141503] 19 p3116 N84-29798
HAMINH, H.
Solution of the compressible Navier-Stokes equations: Applications to complex turbulent flows 16 p2492 N84-25991
HAMLET, R. G.
Research in programming languages and software engineering
[AD-A136037] 09 p1369 N84-18937
HAMLIN, J. R.
NASA-FAA helicopter Microwave Landing System curved path flight test
[NASA-TM-85933] 14 p2103 N84-23617
HAMM, L. L.
Simulation of natural convection in a rectangular loop using finite elements
[DE84-003477] 08 p1160 N84-17550
HAMM, R. E.
C1 K-edge X-ray absorption studies of concentrated ferric chloride solutions
[AD-A142190] 19 p2989 N84-28940
HAMM, R. M.
Direct comparison of intuitive, quasi-rational and analytical cognition
[AD-A130273] 01 p0116 N84-10751
Task conditions versus stable individual differences as determinants of experts' judgement policies
[AD-A134797] 08 p1203 N84-17841
HAMM, R. W.
PASCAL/48 reference manual
[NASA-TM-85752] 08 p1211 N84-17900
HAMMACK, J.
Japan Sea central region tsunami of 26 May 1983. A reconnaisance report
[PB84-194703] 21 p3451 N84-31901
HAMMEL, J. E.
Initiation and accretion experiment on the HDZP
[DE84-009997] 18 p2933 N84-28601
High density Z pinch as a small low-energy fusion device
[DE84-009992] 21 p3502 N84-32198
HAMMER, J. H.
Reconnections in Spheromak formation and sustainment
[DE84-004157] 10 p1586 N84-20398
Recent results of studies of acceleration of compact toroids
[DE84-008330] 19 p3109 N84-29752
High-power RF compressor
[DE84-013118] 22 p3578 N84-32664
HAMMER, J. L., III
The electronic chart
[AD-A140565] 17 p2604 N84-26686
HAMMER, J. M.
Pilot interaction with automated airborne decision making systems
[NASA-CR-173782] 19 p3068 N84-29464
HAMMER, R.
Corona models tested with IUE and Einstein observations 24 p3970 N84-35139
HAMMERBERG, J.
Solid state batteries, literature survey, analysis of pertinent results and prospective for further research
[AD-A144252] 24 p3897 N84-34679
HAMMERLING, F. D.
User's guide for an IBM PL/I implementation of the international standard organization DIS 8211 information processing-specification for a data descriptive file for information interchange
[ORNL/CSD-TM-207] 23 p3814 N84-34188
HAMMERSCHLAG-HENSBERGE, G.
Evidence for variations in the phase-dependent ionization structure of the stellar wind in Vela X-1 24 p3981 N84-35220
HAMMERSCHLAG, G.
Preliminary results of coordinated optical UV and X-ray observations of magnetic white dwarfs in binaries 24 p3980 N84-35216
HAMMETT, J. C.
Space Shuttle main engine powerhead structural modeling, stress and fatigue life analysis. Volume 1: Gasdynamic environment of the SSME HPFTP and HPOTP turbines
[NASA-CR-170999] 11 p1625 N84-20635
Space Shuttle main engine powerhead structural modeling, stress and fatigue life analysis. Volume 2: Dynamics of blades and nozzles SSME HPFTP and HPOTP
[NASA-CR-171000] 11 p1625 N84-20636
Space Shuttle main engine powerhead structural modeling, stress and fatigue life analysis. Volume 3: Stress summay of blades and nozzles at FPL and 115 percent RPL loads. SSME HPFTP and HPOTP blades and nozzles
[NASA-CR-171001] 11 p1625 N84-20637
HAMMETTER, W. F.
Energy release and transformation of shock-modified zirconia upon annealing to 1550 deg C
[DE83-017801] 05 p0755 N84-14954
HAMMOND, G. P.
Turbulent Prandtl number distribution within the constant stress/heat-flux region of a near-wall flow
[SME-8401] 16 p2486 N84-25945
HAMMOND, J. A.
New techniques for absolute gravity measurements
[AD-A129285] 02 p0248 N84-11625
HAMMOND, K. R.
Direct comparison of intuitive, quasi-rational and analytical cognition
[AD-A130273] 01 p0116 N84-10751
HAMMOND, P. E.
Geochemical analyses, age dates, and flow-volume estimates for quaternary volcanic rocks, Southern Cascade Mountains, Washington
[DE84-007662] 15 p2368 N84-25211
HAMMOND, P. R.
Preparation of certain m-aminophenols and the use thereof for preparation of laser dyes
[DE84-014232] 23 p3755 N84-33803
HAMMOND, R.
Proceedings of the 2nd International Workshop on Statistical Database Management
[DE84-005866] 15 p2418 N84-25522
HAMMOND, R. B.
InP:Fe picosecond photoconductors
[DE83-015237] 02 p0215 N84-11410
Photoconductive power switches
[DE83-015239] 02 p0224 N84-11469
HAMMOND, R. H.
Superconducting niobium thin film slow-wave structures 04 p0518 N84-13405
HAMMOND, T.
User's manual for the DOE Technical Information Center Integrated Record Input System (IRIS)
[DE83-013074] 09 p1405 N84-19178
HAMOUDA, M. N. H.
Aeromechanical stability of a hingeless rotor in hover and forward flight: Analysis and wind tunnel tests
[NASA-TM-85683] 01 p0094 N84-10610
HAMPEL, B.
Development of a large area color display
[BMFT-FB-T-83-206] 10 p1499 N84-19801
HAMPEL, V. E.
TIS (Technology Information System): A focal point for technology transfer
[AD-A130798] 01 p0161 N84-11060
Downloading and post-processing of bibliographic information with the TIS (Technology Information System) intelligent gateway computer
[AD-A130800] 01 p0162 N84-11062
TIS: An intelligent gateway computer for information and modeling networks. Overview
[DE83-017986] 04 p0616 N84-14067
An online directory of databases for material properties
[DE84-013210] 22 p3643 N84-33099
HAMPICKE, U.
Air pollution, environmental policy, and economics in the Federal Republic of Germany
[GHK-07] 05 p0701 N84-14601
HAMROCK, B. J.
Numerical methods and computers used in elastohydrodynamic lubrication
[NASA-TM-83524] 02 p0228 N84-11498

Hydrodynamic lubrication of rigid nonconformal contacts in combined rolling and normal motion
[NASA-TM-83578] 08 p1166 N84-17592
Elastohydrodynamic lubrication of smooth surfaces 15 p2315 N84-24895
Elastohydrodynamic lubrication. Status of understanding 15 p2340 N84-25048
Transmission efficiency measurements and correlations with physical characteristics of the lubricant
[NASA-TM-83740] 20 p3195 N84-30293
Lubrication of machine elements
[NASA-RP-1126] 21 p3413 N84-31640

HAMRUD, M.
Lagrangian time scales connected with clouds and precipitation
[CM-65] 18 p2891 N84-28350

HAMSCHER, W.
Using structural and functional information in diagnostic design
[AD-A131859] 03 p0423 N84-12769

HAMSTAD, M. A.
Manufacturing methods and technology (MANTECH) program. Quality control and nondestructive evaluation techniques for composites. Part 6: Acoustic emission: A state-of-the-art review
[AD-A132621] 05 p0645 N84-14245
A comprehensive guide to the literature on acoustic emission from composites
[DE84-011064] 21 p3358 N84-31296

HAN, A. D.
Buckled plate vibrations, large amplitude vibrations and nonlinear flutter of elastic plates using high-order triangular finite elements 03 p0387 N84-12523

HAN, D.
FGGE/SBUV tape specification and shipping letter description
[NASA-CR-170482] 06 p0934 N84-16071
FGGE/ERBM tape specification and shipping letter description
[NASA-CR-170547] 06 p0934 N84-16072
FGGE/ERBZ tape specification and shipping letter description
[NASA-CR-170548] 06 p0934 N84-16073
FGGE/SMMR-30 tape specification and shipping letter description
[NASA-CR-170550] 06 p0935 N84-16074

HAN, J.
A study of elimination conditions for the permutation flow-shop sequencing problem
[CWI-OS-R8403] 17 p2754 N84-27483

HAN, K. S.
An intense excitation source for high power (Blue-green) laser
[AD-A135873] 09 p1322 N84-18637
Studies of new media radiation induced laser
[NASA-CR-173846] 21 p3408 N84-31616

HAN, L. M.
Vacuum ionic carburisation
[BLL-OA-TRANS-3149-(6196.3)] 08 p1122 N84-17291

HAN, L. S.
Transient heat flow across uni-directional fibers in composites
[AD-A131052] 01 p0032 N84-10199

HAN, S. Y.
A language for the specification and representation of programs in a data flow model of computation 05 p0731 N84-14800

HAN, Z.
An iterative guidance method for the large rocket launch vehicle
[AD-A137586] 11 p1624 N84-20629

HANADA, T.
Asymptotic behaviors of the solution of an elliptic equation with penalty terms
[AD-A130473] 01 p0131 N84-10858
Numerical analysis of boundary value problem of elliptic type by means penalty and the finite difference and its application to free boundary problem
[AD-A132805] 05 p0736 N84-14834

HANAMOTO, B.
Aerostat icing problems
[AD-A133403] 06 p0810 N84-15272

HANCE, A. B.
Utilization of basic language programming with EEPROM technology for data acquisition applications and development
[DE84-010380] 18 p2921 N84-28526

HANCHANG, P.
Preliminary study of microtektites first discovered in the central Pacific by China
[NASA-TM-77470] 14 p2250 N84-24514
Microanalytical study of some cosmic dust discovered in sea-floor sediments in China
[NASA-TM-77409] 16 p2504 N84-26068

HANCIK, C. A.
The design of a low loss light-weight s-band phase shifter
[AD-P003406] 19 p3015 N84-29110

HANCOCK, E.
Initial results from testing passive solar components in the NBS calorimeter 16 p2517 N84-26160

HANCOCK, G. D.
Inversion algorithms for the microwave remote sensing of soil moisture. Experiments with swept frequency microwaves
[NASA-CR-173323] 09 p1336 N84-18726

HANCOCK, G. J.
Dynamic effects of controls 01 p0013 N84-10086
Nonlinear analysis of thin-walled I-sections in bending
[PB84-137918] 11 p1669 N84-20890

HANCOX, N. L.
Some properties of epoxy resins used for filament winding and preimpregnating fibres
[AERE-R-10966] 18 p2820 N84-27905

HAND, A.
Prospects of the plasma focus for magnetic fusion 10 p1585 N84-20386

HAND, B.
Physical modeling of the champagne effect
[DE84-001813] 04 p0516 N84-13388

HAND, C.
Ultra low loss optical fiber cable assemblies, volume 2
[AD-A132008] 03 p0440 N84-12891
Ultra low loss optical fiber cable assemblies, volume 1
[AD-A132007] 03 p0440 N84-12892

HAND, C. G.
Battery test results on Gould GC2-EV200
[DE84-900635] 20 p3181 N84-30208

HAND, D. H.
Staged collision and damage data report for accident reconstruction of fourteen (14) test vehicles (1980 - 1982 model year), volume 1
[PB83-228502] 01 p0092 N84-10598

HAND, G. R.
NETWORK: A user oriented, interactive, station-siting program for NOAA (National Oceanic and Atmospheric Administration) VHF weather radio
[PB84-202233] 21 p3466 N84-31978

HAND, L. N.
Simulation of ultra-low emittance electron storage rings
[DE84-012050] 20 p3310 N84-31024

HANDA, H.
Development of a new, completely implantable intraventricular pressure meter and preliminary report of its clinical experience
[NASA-TM-77121] 16 p2535 N84-26276

HANDIN, J.
Mechanical and transport properties of rocks at high temperatures and pressures. Task 3. Mechanical properties of rocks at high temperatures and pressures
[DE84-003438] 08 p1188 N84-17740

HANDKE, E.
Some theoretical results on Mach reflection of moderately strong shock waves
[MPIS-14/1983] 17 p2668 N84-27016

HANDLYKKEN, M. B.
Shaft transducer having dc output proportional to angular velocity
[NASA-CASE-NPO-15706-1] 18 p2838 N84-28017

HANDS, B. A.
NIPROP: A computer package for the thermodynamic and thermophysical properties of nitrogen
[OUEL-1485/83] 12 p1917 N84-22487

HANDY, C. R.
Accelerated convergence of the steepest-descent method for magnetohydrodynamic equilibria
[DE84-013602] 22 p3659 N84-33195

HANE, G. J.
Innovative industrial-materials processes
[DE83-016784] 03 p0405 N84-12649

HANECKER, E.
The bromination of pyrazabole
[AD-A144264] 24 p3880 N84-34581

HANELY, T. R.
Behavior of an aromatic heterocyclic polymer in salt solution
[AD-A134865] 08 p1138 N84-17401

HANES, D. M.
Studies on the mechanics of rapidly flowing granular-fluid materials
[AD-A135463] 08 p1158 N84-17540

HANEY, J. F.
Navy's advanced aircraft armament system program concept objectives 06 p0770 N84-15045

HANEY, J. W., JR.
Orbiter entry heating lessons learned from development flight test program 01 p0023 N84-10148
Space shuttle wing leading edge heating environment prediction derived from development flight data 01 p0025 N84-10162

HANEY, M.
Real-time synthetic aperture radar processing 12 p1906 N84-22416

HANEY, S. J.
Manipulator having thermally conductive rotary joint for transferring heat from a test specimen
[DE84-010958] 20 p3186 N84-30242

HANFF, E. S.
Recent developments and future directions in dynamic stability research at NAE, Ottawa 14 p2097 N84-23582

HANG, T.
New conformal solution theory
[PB83-249441] 03 p0457 N84-13008

HANGA, F.
High power bogie for 350 km/h. Design and definition
[MBB-UD-376-OE] 05 p0687 N84-14518

HANHELA, P. J.
Interactions between F-111 fuselage fuel tank sealants. Part 1: Characterisation of polyester sealants and their hydrolytic degradation products
[MRL-R-857-PT-1] 16 p2470 N84-25828

HANIG, R.
An investigation of lyolinescence techniques for application in radiation protection dosimetry
[PB83-263236] 19 p3053 N84-29373

HANITSCH, R.
Reliability of electrical machines and drives, part 1
[BMFT-FB-T-83-163-PT-1] 07 p0999 N84-16480
Reliability of electrical machines and drives, part 2
[BMFT-FB-T-83-164-PT-2] 07 p0999 N84-16481

HANIU, H.
Turbulence measurements in plane jets and plumes in crossflow
[PB84-105303] 08 p1160 N84-17554
Turbulence measurements in plane jets and plumes in crossflow 10 p1496 N84-19783

HANKE, D.
Flying qualities experiments of rate command/attitude hold systems in the HFB 320 in-flight simulator
[DFVLR-FB-83-25] 06 p0792 N84-15163

HANKER, E. J., JR.
A study of the aerodynamic interactions of the tail rotor and fin
[AD-A130757] 01 p0005 N84-10030
Investigation of operational and design factors resulting from main rotor and tail rotor interactions
[AD-A137710] 11 p1603 N84-20497

HANKEY, W. L.
Introduction to computational aerodynamics
[AD-A130717] 01 p0005 N84-10031
Self excited oscillations in journal bearings
[AD-A130200] 01 p0090 N84-10585
Stability of compressible wake and jet flows
[AD-A136541] 09 p1314 N84-18589

HANKINS, D. E.
Advanced aircraft electrical system control technology demonstrator. Phase 1: Requirements analysis & preliminary design. Phase 2: Detailed design
[AD-A136758] 10 p1428 N84-19337
New technique to improve the accuracy of albedo neutron dosimeter evaluations
[DE84-002458] 19 p3027 N84-29201

HANKINS, G. B.
Extension to an analysis of turbulent swirling compressible flow for application to axisymmetric small gas turbine ducts
[NASA-CR-165597] 11 p1753 N84-21445

HANKINS, J. D.
High speed machining of space shuttle external tank liquid hydrogen barrel panel
[NASA-TM-82557] 05 p0662 N84-14352

HANKINSON, A.
Computer science and technology: Selection of microcomputer systems
[PB84-167725] 15 p2389 N84-25331

HANKS, B. R.
Deployable beam flight experiment (MAST) 08 p1110 N84-17218

HANKS, G. W.
Integrated Application of Active Controls (IAAC) technology to an advanced subsonic transport project: Current and advanced act control system definition study, volume 1
[NASA-CR-165631-VOL-1] 19 p2967 N84-28802
Integrated Application of Active Controls (IAAC) technology to an advanced subsonic transport project: Current and advanced act control system definition study. Volume 2: Appendices
[NASA-CR-165631-VOL-2] 19 p2967 N84-28803

Integrated Application of Active Controls (IAAC) technology to an advanced subsonic transpot project-demonstration act system definition
[NASA-CR-165920] 19 p2967 N84-28804

HANLEY, J. T.
The feasibility of using precursor aerosol parameters to predict visibility in fog and haze
[AD-A137141] 10 p1539 N84-20084
The role of vegetation in the low-level water budget in fog
[AD-A139099] 14 p2179 N84-24051

HANNA, M. F.
Method and apparatus for precision control of radiometer
[NASA-CASE-NPO-15398-1] 13 p1992 N84-22931

HANNA, S. L.
An integrated system for shells with discontinuities: Geometric modelling and finite element analysis
06 p0656 N84-15576
Intersection of parametric surfaces using lookup tables 12 p1870 N84-22185

HANNAFORD, J. F.
Continuing design, review and analysis work for the Sierra Cooperative Pilot Project
[PB84-143627] 11 p1688 N84-21012

HANNAH, M. J.
Machine intelligence research applied to industrial automation
[PB84-123348] 10 p1473 N84-19618

HANNAK, L.
Selfdual classes and automorphism groups
[AD-P002341] 14 p2191 N84-24132

HANNAMAN, D. L.
Development of a computer-assisted simulation of tactical voice communications. Phase 1: Conceptual design
[AD-A143036] 21 p3386 N84-31492

HANNAN, P. W.
Study and design of a cylindrical lens array antenna for wideband electronic scanning
[AD-A138808] 13 p1983 N84-22875
Axial-conductances angular filter investigation
[AD-A142802] 21 p3386 N84-31487

HANNHEIM, A. S.
The structural and aerodynamic behaviour of a semi-inflatable wing
[BU-297] 15 p2260 N84-24574

HANNI, L. F.
Synthetic spectra of red giants
15 p2422 N84-25550

HANNSGEN, K. B.
An example of boundary layer in delay equations
[AD-A129144] 01 p0129 N84-10842

HANNULA, S. P.
Workhardening correlations based on state variables in some FCC metals in monotonic loadings
[DE84-004880] 10 p1461 N84-19540
Repeated load relaxations of type 316 austenitic stainless steel
[DE84-004875] 10 p1461 N84-19541

HANNULA, T. A.
Computer simulation of phosphorus cycling in the sediment-water system of eutrophic lakes
[PB84-140573] 11 p1672 N84-20912

HANNUM, N. B.
Space station propulsion analysis study
[NASA-TM-83715] 16 p2459 N84-25764

HANOLD, R. J.
Two-phase flow studies
[DE84-001727] 06 p0845 N84-15511

HANRATTY, T. J.
A study of the coherent structures in the viscous wall region of a turbulent flow
[AD-A137875] 11 p1652 N84-20788
Turbulent flow over small amplitude solid waves
[AD-A137876] 11 p1653 N84-20789

HANS, H.
Electrochemical-treeing (ECT) structures in high-voltage cable insulation
[BMFT-FB-T-83-087] 02 p0215 N84-11413

HANS, P.
Scatterometer System Simulator (SSS), phase 1: Definition
[ESA-CR(P)-1788] 08 p1191 N84-17765
Ocean wind field measurement performance of the ERS-1 scatterometer 17 p2713 N84-27273
ERS-1 system simulation and calibration
23 p3783 N84-33991
The in-flight calibration of a satellite-borne wind scatterometer 23 p3783 N84-33993

HANSELMANN, G.
Support development program for the qualification of solar farm collectors
[BMFT-FB-T-83-207] 08 p1181 N84-17696

HANSEN, A. C.
An analysis of three approaches to the helicopter preliminary design problem
[AD-A144315] 24 p3854 N84-34440

HANSEN, A. D. A.
Aethalometer: An instrument for the real-time measurement of optical absorption by aerosol particles
[DE84-000400] 04 p0538 N84-13538

HANSEN, A. F.
Theoretical analysis of nonreciprocal electromagnetic surface wave devices
[AD-A131630] 02 p0209 N84-11368
Topically classified bibliography on shapes of falling drops, drops in electric fields and related topics
[AD-A131134] 03 p0371 N84-12417

HANSEN, A. R.
Obeervational and theoretical studies of the evolving structure of baroclinic waves 24 p3925 N84-34845

HANSEN, B. J.
An investigation of experimental techniques for obtaining particulate behavior in metallized solid propellant combustion 13 p1947 N84-22659
An investigation of experimental techniques for obtaining particulate behavior in metallized solid propellant combustion
[AD-A141044] 18 p2808 N84-27826

HANSEN, E. M.
Protocol for the collection and analysis of volatile POHCs (Principal Organic Hazardous Constituents) using VOST (Volatile Organic Sampling Train)
[PB84-170042] 15 p2338 N84-25035

HANSEN, G. M.
Mie scattering as a technique for the sizing of air bubbles
[AD-A142737] 21 p3498 N84-32170

HANSEN, G. R.
Digitally controlled sonars
[AD-P003121] 16 p2533 N84-26262
Phase sensitive guidance sensor for wire-following vehicles
[NASA-CASE-NPO-15341-1] 23 p3750 N84-33769

HANSEN, H.
Unsteady aerodynamics of fast moving control surfaces
[BMFT-FB-W-84-020] 21 p3328 N84-31117

HANSEN, H. A.
The geomagnetic elements in Denmark 1928-1980
[ISBN-87-7478-219-3] 14 p2174 N84-24024

HANSEN, I.
Attention, performance, and sustained activation in military air traffic controllers 11 p1698 N84-21076

HANSEN, I. G.
All-purpose bidirectional four-quadrant controller
01 p0011 N84-10070

HANSEN, J.
Three dimensional global modeling of atmospheric CO2
[NASA-TM-85444] 12 p1847 N84-22043
Metallurgy: Development of material recovery
16 p2465 N84-25795

HANSEN, J. E.
The Technical University of Denmark (TUD)-ESA spherical near field antenna test facility, Lyngby, Denmark
[ESA-BR-19] 20 p3132 N84-29890

HANSEN, J. S.
Computation of influence of defects on static and fatigue strength of composites 01 p0034 N84-10217
Adaptive noise cancellation in neuromagnetic measurement systems
[AD-A132547] 05 p0684 N84-14494
The effect of space environment exposure on the properties of polymer matrix composite materials (A0180) 15 p2272 N84-24644

HANSEN, L. D.
Kinetics of open circuit processes in undischarged Li/SOCl2 cells
[CONTRIB-336] 23 p3736 N84-33675

HANSEN, O.
Quasielastic reactions
[DE83-014616] 01 p0144 N84-10947

HANSEN, P.
Introductory studies of natural contamination and manmade pollution in Danish waters
03 p0399 N84-12608

HANSEN, P. B.
A summary of research on microprocessor networks
[AD-A131325] 02 p0277 N84-11813

HANSEN, R. C.
Focal region characteristics of focused microwave array antennas
[AD-A138557] 13 p1982 N84-22867

HANSEN, R. G.
Testing and characterizations of infrared sensor over the temperature range of 2 Kelvin to 300 Kelvin
06 p0820 N84-15347
Suitability of commercially available laboratory cryogenic refrigerators to support shipboard electro-optical systems in the 10 - 77 Kelvin region 06 p0821 N84-15355

HANSEN, T.
The electron and ion spectra of radar returns from the critical height during ionospheric heating experiments
05 p0636 N84-14185

HANSEN, T. E.
Great prospects for fiber optics sensors
[NASA-TM-77357] 02 p0293 N84-11922

HANSEN, V.
Introductory studies of natural contamination and manmade pollution in Danish waters
03 p0399 N84-12608

HANSEN, W.
The use of diamond core saws in the electronics industry
[CSIR-TRANS-1702] 08 p1140 N84-17417

HANSLMEIER, A.
Numerical integration with Lie-series
19 p3118 N84-29814

HANSMA, P. K.
Squeezable electron tunneling junctions
[AD-A132884] 05 p0754 N84-14946
An electromagnetic squeezer for compressing squeezable electron tunneling junctions
[AD-A136668] 10 p1588 N84-20410
Air as an adjustable insulator for C-V and G-V analysis of semiconductor surfaces
[AD-A141437] 19 p3013 N84-29099

HANSON, A. G.
Alternative transmission media for third-generation interface standards
[PB83-238345] 03 p0363 N84-12365

HANSON, A. J.
Image understanding research and its application to cartography and computer-based analysis of aerial imagery
[AD-A133495] 06 p0866 N84-15842
Installing a copy of the ARPA/DMA image understanding testbed at the US Army engineer topographic laboratories
[AD-A136999] 10 p1525 N84-19991

HANSON, A. L.
Characterization of alloy 600 surfaces after exposure to a caustic environment
[DE83-018297] 04 p0503 N84-13300
Determining of surface oxide compositions on Alloy 600 using Rutherford backscattering
[DE84-002872] 15 p2299 N84-24797

HANSON, B. A.
Processing techniques for intelligibility improvement to speech with co-channel interference
[AD-A135702] 09 p1302 N84-18508

HANSON, B. C.
Microwave remote sensing of snow experiment description and preliminary results
[E84-10009] 02 p0236 N84-11547

HANSON, C. L.
Fiber optic helmet mounted display: A cost effective approach to full visual flight simulation
[AD-P003482] 21 p3512 N84-32249
Training the multiple-aircraft combat environment
[AD-P003495] 21 p3514 N84-32261

HANSON, G. G.
Tau and B lifetime measurements from the MARK 2
[DE83-018219] 03 p0439 N84-12879

HANSON, G. N.
Use of olivine and plagioclase saturation surfaces for the petrogenetic modeling of recrystallized basic plutonic systems 11 p1679 N84-20956
Granitic rocks and metasediments in Archean crust, Rainy Lake area, Ontario: ND isotope evidence for mantle-like SM/ND sources 11 p1680 N84-20964
Geochemistry and origin of regional dolomites
[DE84-008257] 15 p2369 N84-25214

HANSON, J.
Feasibility of using sonic techniques to estimate in-situ stresses
[DE83-016890] 01 p0097 N84-10634

HANSON, J. D.
Elimination of stochasticity in stellarators
[DE84-001560] 06 p0921 N84-15985

HANSON, J. M.
Optimal maneuvers of orbital transfer vehicles
13 p1939 N84-22606

HANSON, K. L.
Stirling engine applications study
[PB84-148055] 12 p1823 N84-21888

HANSON, K. M.
Variations in task and the ideal observer
[DE83-015394] 03 p0416 N84-12723

HANSON, M. E.
Structure of silver (100) and (111) single-crystal surfaces obtained by chemical polishing
[AD-A140148] 16 p2560 N84-26424

HANSON, P. W.
An aeroelastician's perspective of wind tunnel and flight experiences with active control of structural response and stability
[NASA-TM-85761] 14 p2157 N84-23924
HANSON, R. E.
Volcanism, plutonism, and sedimentation in a late Devonian Submarine Island-arc setting, Northern Sierra Nevada, California 21 p3441 N84-31831
HANSON, R. J.
A new algorithm for constrained nonlinear least-squares problems, part 1
[NASA-CR-174480] 02 p0283 N84-11855
HANSON, R. K.
Advanced diagnostics and instrumentation for chemically reactive flow systems
[AD-A131814] 03 p0346 N84-12251
Technique for the rapid generation of OH radicals behind shock waves and its application to the study of combustion kinetics
[DE84-003183] 08 p1126 N84-17317
Combustion gas spectroscopy using tunable lasers
[DE84-004976] 08 p1126 N84-17320
Velocity visualization in gaseous flows
11 p1610 N84-20543
Advanced diagnostics for reacting flows
13 p1943 N84-22637
HANSSEN, A. W.
Weather effects on electricity peak loads in the Southwest of the Netherlands and verification of the estimation of these maxima, 1 January 1972 - 1 January 1983
[KNMI-WR-83-14(DM)] 10 p1540 N84-20095
HANTEL, M.
Radiation for box budgets 10 p1535 N84-20058
HANUISE, C.
Calm ionospheric dynamo. Part 1: Simulations carried out in 1981
[CRPE-NT-112-PT-1] 13 p2012 N84-23055
HANZLICK, D. J.
The west spitsbergen current: Transport, forcing, and variability
[AD-A137532] 11 p1691 N84-21032
HAPGOOD, J. H.
Automatic gain control circuit for video signals of scenes of varying illumination levels
[AD-A144198] 24 p3894 N84-34658
HAPPEL, H. W.
Increase of efficiency in cooled high temperature turbines
[BMFT-FB-W-84-019] 21 p3343 N84-31212
HARADA, Y.
Kinetics of complexation of the macrocycles 18C6 and 12C4 ethers with LiAsF-6 in 1,2-dimethoxyethane at 25 deg C
[AD-A143086] 21 p3359 N84-31304
HARALICK, R. M.
Relative elevation determination from LANDSAT imagery 03 p0392 N84-12558
Spatial reasoning to determine stream network from LANDSAT imagery
[E84-10063] 06 p0865 N84-15632
HARAO, M.
An automatic syntheses of hardware algorithm
22 p3563 N84-32568
HARB, A.
Thermal stress analysis for a wood composite blade
[NASA-CR-173394] 12 p1826 N84-21903
Thermal-stress analysis for wood composite blade
[NASA-CR-173830] 21 p3419 N84-31685
HARBAUGH, J. W.
Classification of the California Desert for geology-energy-mineral resource potential geostatistical classification
[PB84-100668] 10 p1538 N84-20078
HARBERT, B.
Research on composite materials for structural design
[AD-A134059] 05 p0645 N84-14242
HARBESON, M. M.
Effects of head impact acceleration on human performance: Overview and preliminary battery identification
[AD-A130286] 01 p0116 N84-10754
Current research at the U.S. Naval Biodynamics Laboratory on human whole-body motion and vibration
[AD-A138367] 12 p1865 N84-22155
HARBISON, S. P.
The C.mmp multiprocessor
[AD-A142132] 19 p3072 N84-29493
HARBISON, W. C.
Specialty coatings for increased service life of acrylic aircraft transparencies, part 2
[AD-P003206] 17 p2593 N84-26619
HARBOURT, C. D.
Pulse width modulated DC link converter development
[AD-A134486] 07 p0997 N84-16467
HARDEE, P. E.
A study of accretion in compact sources: Disk precession and jet helicity 06 p0929 N84-16038
HARDEKOPF, R. A.
PR beam-pulse formation and control
[DE84-001354] 04 p0596 N84-13936
HARDENSTINE, K. E.
Characterization of block copolymers based on poly(3,3 -bis(ethoxymethyl)oxetane) and other novel polyethers
[AD-A142606] 20 p3162 N84-30081
HARDER, C.
Bistable injection lasers 14 p2241 N84-24455
HARDER, P. H., II
Crop moisture estimation over the southern Great Plains with dual polarization 1.66 centimeter passive microwave data from Nimbus 7
[E84-10163] 17 p2710 N84-27255
HARDESTY, C.
Alignment telescope for Antares
[DE83-014179] 01 p0088 N84-10576
HARDESTY, D. L.
A high-gain 35 GHz free-electron laser amplifier experiment
[AD-A139593] 14 p2151 N84-23886
HARDESTY, R. M.
Measurement of range-resolved water vapor concentration by coherent CO2 differential absorption lidar
[AD-A143594] 23 p3753 N84-33791
HARDIE, R. W.
Assessment of fuel cell propulsion systems
[DE84-006323] 15 p2420 N84-25536
HARDIMAN, C. J.
Metal-chelate polymers: Structural/property relationships as a function of the metal ion
[AD-A140205] 16 p2471 N84-25839
HARDIN, D. P.
A dual-ported, dual-polarized spherical near-field probe
[AD-P003514] 21 p3385 N84-31482
HARDIN, E. L.
Ambient temperature testing of the G-tunnel heated block
[DE84-009927] 20 p3298 N84-30945
HARDING, A.
Self-consistent models for Coulomb heated X-ray pulsar atmospheres
[NASA-TM-85087] 02 p0307 N84-12012
HARDING, A. K.
Equilibria in strongly magnetized pair plasmas
09 p1407 N84-19191
Pair production rates in mildly relativistic, magnetized plasmas
[NASA-TM-86103] 15 p2405 N84-25434
HARDING, J.
The effect of cooling rate from the gamma-phase on the strain-rate sensitivity of a uranium 2w/o molybdenum alloy
[QUEL-1492/83] 15 p2296 N84-24779
Tensile impact testing of fibre-reinforced composites
15 p2316 N84-24901
High rate straining and mechanical properties of materials
[QUEL-1502/83] 15 p2350 N84-25106
Fracture initiation in glass-reinforced plastics under impact compression
[OUEL-1516/84] 19 p3037 N84-29265
HARDING, J. M.
Statistics of vertical shear from a hemispheric model
[AD-A136179] 10 p1543 N84-20111
HARDING, J. T.
Platinum group coatings for refractory metals
[AD-A143792] 23 p3718 N84-33568
High temperature oxidation resistant coatings
[AD-A143633] 23 p3724 N84-33597
HARDING, R.
Documentation of ice shapes on the main rotor of a UH-1H helicopter in hover
[NASA-CR-168332] 08 p1098 N84-17139
HARDIS, J.
The 100% alignment of hydrogen excited states in beam-foil spectroscopy
[DE83-017963] 03 p0436 N84-12859
Fast ion atomic spectroscopy
[DE84-006720] 15 p2404 N84-25432
HARDISKY, M.
Aboveground biomass estimation in a tidal brackish marsh using simulated Thematic Mapper spectral data
20 p3214 N84-30419
HARDISON, D.
Evaluation of sampling methods for gaseous atmospheric samples
[PB84-190735] 20 p3151 N84-30012
HARDISON, D. R., JR.
Raman investigation of the rate of OH uptake in stressed and unstressed optical fibers
[AD-A143142] 21 p3498 N84-32172
HARDLE, W.
A law of the iterated logarithm for non-parametric regression function estimators
[AD-A133260] 06 p0901 N84-15847
On jackknifing kernel regression function estimators
[AD-A133236] 06 p0904 N84-15867
HARDT, D. E.
Improvement of reliability of welding by in-process sensing and control (development of smart welding machines for girth welding of pipes)
[DE83-017012] 01 p0091 N84-10595
HARDT, R.
Wide flanged beams with improved properties
[BMFT-FB-T-83-082] 02 p0197 N84-11283
HARDWICK, W.
Latchup window tests
[AD-A138680] 13 p1986 N84-22894
HARDY, D. A.
Systematics of the equatorward diffuse auroral boundary
[AD-A132897] 05 p0704 N84-14617
The worst case charging environment
[AD-P002108] 16 p2522 N84-26194
HARDY, G. H.
Flight evaluation results from the general-aviation advanced avionics system program
[NASA-TM-84397] 01 p0007 N84-10042
A flight-test evaluation of a go-around control system for a twin engine powered-lift STOL airplane
[NASA-TM-84408] 02 p0181 N84-11178
An overview of the demonstration advanced avionics system guest pilot evaluation conducted at Ames Research Center 03 p0314 N84-12049
Flight-test of the glide-slope track and flare-control laws for an automatic landing system for a powered-lift STOL airplane
[NASA-TP-2128] 04 p0487 N84-13198
Design, development and flight test of a demonstration advanced avionics system 06 p0773 N84-15067
Software modifications to the Demonstration Advanced Avionics Systems (DAAS)
[NASA-TM-85942] 21 p3327 N84-31105
A flight-test and simulation evaluation of the longitudinal final approach and landing performance of an automatic system for a light wing loading STOL aircraft equipped with wing spoilers
[NASA-TM-85873] 22 p3537 N84-32393
HARDY, J. R.
The United Kingdom SATMaP program
[E84-10002] 04 p0551 N84-13627
The use of thematic mapper data for land cover discrimination: Preliminary results from the UK SATMaP programme
[E84-10038] 04 p0551 N84-13631
Simulation of shock-induced energy flux in molecular solids
[DE84-001157] 04 p0613 N84-14047
Improper ferroelectricity: A theoretical and experimental investigation
[AD-A138401] 12 p1898 N84-22362
Simulation of shock-induced energy flux in molecular solids, revision 1
[DE84-008331] 15 p2304 N84-24827
The use of Thematic Mapper data for land cover discrimination: Preliminary results from the UK Satmap programme 20 p3216 N84-30428
HARDY, J. T.
Fate and effects of metals in the sea-surface microlayer
[DE84-000114] 04 p0569 N84-13752
HARDY, K. A.
Motor performance in irradiated rats as a function of radiation source, dose, and time since exposure
[AD-A141209] 18 p2894 N84-28363
HARDY, L. C.
Chloride ion conductivity in a plasticized quaternary ammonium polymer
[AD-A135373] 08 p1124 N84-17305
HARDY, R. J.
De-excitation and equipartition in H2-surface collisions
[DE84-003008] 08 p1229 N84-18031
HARDY, T. L.
Cathode degradation and erosion in high pressure arc discharges
[NASA-TM-83638] 13 p1942 N84-22631
HARE, C. T.
Heavy-duty diesel emissions as a function of alternate fuels
[PB84-120716] 09 p1291 N84-18426

HARE, D.
Investigation, development, and evaluation of performance proving for fault-tolerant computers
[NASA-CR-166008] 15 p2385 N84-25307
HDM/PASCAL verification system user's manual
15 p2387 N84-25315
HARE, T. M.
Precision digital dilatometry: A microcomputer-based approach to sintering studies
[DE84-009794] 19 p3073 N84-29497
HARGER, R. O.
Sea height information from complex SAR data
[NASA-CR-173199] 07 p1060 N84-16872
A novel algorithm for sea surface height estimation using complex SAR data 07 p1060 N84-16873
Optimal estimation with chaotic dynamics
07 p1060 N84-16874
Optimal inference with chaotic dynamics
07 p1060 N84-16875
HARGIS, P. J., JR.
Plasma-initiated laser deposition of polycrystalline and monocrystalline silicon films
[DE84-005527] 13 p1996 N84-22953
Laser-induced etching of insulators using a dc glow discharge in silane
[DE84-007570] 14 p2151 N84-23888
HARGRAVE, D. F.
Development of the A-6E/A-6E TRAM/KA-6D NATOPS (Naval Air Training and Operating Procedures Standardization) calculator aided performance planning system (NCAPPS)
[AD-A136897] 14 p2186 N84-24100
HARGRAVES, R. B.
Magnetic properties of Martian surface material
[NASA-CR-173491] 15 p2425 N84-25566
The origin of magnemite on Mars
[NASA-CR-173492] 16 p2579 N84-26543
HARGROVE, J. W., JR.
Selection of multiple sources in weapon systems acquisition
[AD-P002837] 13 p2063 N84-23382
HARIHARAN, S. I.
Acoustic shocks in a variable area duct containing near sonic flows
[NASA-CR-172274] 06 p0908 N84-15897
Spectral methods for exterior elliptic problems
[NASA-CR-172380] 19 p3082 N84-29560
Numerical solutions of acoustic wave propagation problems using Euler computations
[NASA-CR-172434] 22 p3645 N84-33112
HARIK, I. E.
Bending of transversally loaded orthotropic rectangular and sector plates 03 p0387 N84-12520
HARITOS, G. K.
Pullout of a rigid insert adhesively bonded to an elastic half plane
[AD-A137859] 11 p1668 N84-20685
HARKER, A. H.
Host-lattice effects in the spin-orbit fine structure of vacancy-trapped electrons
[DE84-000599] 04 p0614 N84-14052
HARKEY, W. B.
Development of a non-volatile programmable digital to analog converter subsystem for PCM (Pulse-Code Modification) telemetry systems
[AD-A137678] 11 p1622 N84-20620
HARKNESS, J. D.
Evaluation program for secondary spacecraft cells. Initial evaluation tests of General Electric Company 4.0 ampere-hour nickel-cadmium spacecraft cells for the AMPTE satellite program
[NASA-CR-173357] 09 p1341 N84-18758
Qualification evaluation tests of 20.0 ampere-hour sealed nickel-cadmium cells
[NASA-CR-173358] 09 p1341 N84-18759
HARKNESS, R. E.
Water resources data for North Dakota: Water year, 1982
[PB84-136589] 10 p1528 N84-20008
HARLAN, C. P.
System 2000 to dBASE 2 and back again
[DE84-008031] 18 p2945 N84-28677
HARLESS, M. W.
Models of purposive human organization: A comparative study
[AD-A138871] 14 p2247 N84-24491
HARLEY, R. G.
Laboratory measurements of subsynchronous resonance
[RL-5845] 11 p1667 N84-20877
HARLING, O. K.
Structures and properties of rapidly solidified 9Cr-1Mo steel
[DE84-001276] 04 p0499 N84-13276
Irradiation response in titanium-modified austenitic stainless steels prepared by rapid-solidification processing. Part 3. A model for the effect of titanium addition
[DE84-001296] 04 p0500 N84-13281
Irradiation response in titanium-modified austenitic stainless steels prepared by rapid-solidification processing. Part 2. Dual-ion irradiations
[DE84-001297] 04 p0500 N84-13282
Irradiation response in titanium-modified austenitic stainless steels prepared by rapid-solidification processing. Part 1: Microstructural response to neutron irradiation
[DE84-001298] 04 p0501 N84-13283
Miniaturized disk bend tests of neutron-irradiated path A type alloys
[DE84-001277] 04 p0549 N84-13618
MIT miniaturized disk bend test
[DE84-001275] 05 p0694 N84-14554
Ion bombardment effects of the fatigue life of stainless steel under simulated fusion first wall conditions
[DE84-001300] 21 p3367 N84-31359
HARLOW, C. A.
A study of texture analysis algorithms
[AD-A131498] 01 p0123 N84-10802
HARMAN, M. W.
A transportable satellite Earth station
[BBC-RD-1984/8] 22 p3571 N84-32614
HARMAN, W. H.
System safety study of minimum TCAS II (Traffic Alert and Collision Avoidance System)
[AD-A138674] 13 p1929 N84-22548
HARMANEC, P.
On the origin of Be phenomenon
15 p2422 N84-25552
HARMANNY, A.
Interaction of gas explosions with buildings
06 p0836 N84-15447
HARMON, C. B.
Evaluation of process systems for effective management of aluminum finishing wastewaters and sludges
[PB84-170661] 16 p2520 N84-26178
HARMON, J. K.
Volcanism and rift formation in Beta Regio, Venus: New radar results 11 p1754 N84-21450
HARMON, S.
A survey of European robotics research
[AD-A138952] 13 p2024 N84-23122
HARMON, S. L.
Distributed processing tools definition. Volume 2: Application of software engineering technology
[AD-A137687] 11 p1704 N84-21106
Distributed processing tools definition. Volume 3: An integrated software engineering environment for distributed processing software development
[AD-A137688] 11 p1704 N84-21107
HARMS, H.
Development of an electrically controllable gas flow valve for use in patient ventilators
[BMFT-FB-T-84-129] 23 p3757 N84-33819
HARMS, R.
EMV norms: Introduction to the norms of electromagnetic accomodation
[MBB-UR-652-83-O] 16 p2481 N84-25910
HARMS, R. W.
Cirques of the Marble Mountains, northwestern California 23 p3795 N84-34065
HARMSEN, D. M.
Improving the legibility of computer printouts
[BMFT-FB-DV-84-001] 16 p2542 N84-26315
HARMSEN, S. C.
Southern Great Basin seismological data report for 1981 and preliminary data analysis
[DE84-005687] 15 p2369 N84-25213
HARMSWORTH, B.
Sensible heat storage in water
[PP-132] 18 p2868 N84-28206
HARNED, D. S.
Recent results in the Los Alamos compact torus program
[DE83-014147] 03 p0446 N84-12930
Semi-implicit method for three-dimensional compressible MHD simulation
[IPP-6/234] 20 p3301 N84-30961
HARNEY, D. J.
Three-dimensional test experience with a transonic adaptive-wall wind tunnel
[AD-A129858] 01 p0016 N84-10102
HARNISH, L. O.
H. F. Frequency management by frequency sharing as assisted by models updated in real-time
[AD-A139896] 15 p2321 N84-24936
HARPER, B. D.
On the effects of post cure cool down and environmental conditioning on residual stresses in composite laminates
12 p1788 N84-21663
HARPER, C. E.
Characterization of the microstructures of various materials
[AD-A141946] 20 p3152 N84-30017
HARPER, D. A.
Far-IR selected star formation regions
[NASA-TM-85955] 16 p2574 N84-26521
NGC 2024: Far-infrared and radio molecular observations
[NASA-TM-85954] 16 p2575 N84-26524
The energetics and mass structure of regions of star formation
[NASA-TM-85953] 16 p2575 N84-26525
W3 North: Far-infrared and radio molecular observations
[NASA-TM-85961] 17 p2774 N84-27615
HARPER, E. P.
Investigations of the structure and electromagnetic interactions of few body systems
[DE84-006852] 12 p1902 N84-22388
HARPER, J. D.
The AXAF technology program: The optical flats tests
[NASA-TM-82570] 10 p1578 N84-20341
HARPER, L. L.
Laser Resonator
[NASA-CASE-GSC-12565-1] 05 p0686 N84-14509
HARPER, R. W.
Water resources data for Idaho, water year 1982. Volume 1: Great Basin and Snake River Basin above King Hill
[PB84-118470] 09 p1338 N84-18740
Water resources data for Idaho, water year 1982. Volume 2: Upper Columbia River Basin and Snake River Basin below King Hill
[PB84-118488] 09 p1338 N84-18741
HARR, M. E.
Analytical and experimental investigation of soil reinforcing
[AD-A134343] 07 p0985 N84-16383
HARRACH, R. J.
Inertial effects in laser-driven ablation
[DE83-016941] 03 p0380 N84-12478
Inertial effects in laser-drive ablation
[DE84-000071] 04 p0542 N84-13566
HARRAR, J. E.
Electrochemical generation of N2O5
[DE83-013377] 02 p0190 N84-11235
HARRIES, W. L.
Theoretical studies of solar-pumped lasers
[NASA-CR-173283] 08 p1164 N84-17576
Theoretcial studies of solar-pumped lasers
[NASA-CR-173833] 20 p3192 N84-30274
HARRINGTON, J. A.
Investigation of optical fibers for nonlinear optics
[AD-A130656] 01 p0147 N84-10965
Investigation of optical fibers for nonlinear optics
[AD-A143565] 22 p3657 N84-33185
HARRINGTON, J. P.
A model of the planetary nebula NGC 3918 based on IUE observations 24 p3978 N84-35195
HARRINGTON, R. F.
Electromagnetic coupling to an infinite wire through a small aperture of arbitrary shape
[AD-A130425] 01 p0062 N84-10407
Analytical evaluation of the potential due to a uniformly charged planar triangular region
[AD-A130810] 01 p0138 N84-10907
The discrete convolution method for solving some large moment matrix equations
[AD-A135420] 08 p1226 N84-18007
Electromagnetic coupling between a conducting body and an aperture in an infinite conducting plane
[AD-A138394] 12 p1898 N84-22361
Computer programs for electromagnetic coupling between a conducting body and an aperture in an infinite conducting plane
[AD-A142975] 21 p3386 N84-31491
Solution of some additional electromagnetic problems by the discrete convolution method
[AD-A143056] 21 p3387 N84-31493
Calculation of the excess inductance of a microstrip discontinuity
[AD-A143819] 23 p3742 N84-33718
HARRINGTON, T. P.
Vibration monitoring using a computer-network approach
[DE83-012123] 02 p0232 N84-11523
HARRIS, A.
Design of an orbital heating simulator using IR techniques 24 p3864 N84-34487
HARRIS, A. E.
Civil turbofan propulsion system integration studies using powered testing techniques at ARA, Bedford
[ARA-MEMO-246] 13 p1931 N84-22561

HARRIS, A. W.
The 1978 - 1984 fading of the Seyfert 1 galaxy F-9
24 p3972 N84-35149
A general survey of the correlation of interstellar element depletion with line-of-sight density indicators
24 p3973 N84-35158
Interstellar chlorine abundance: Results and implications of a large-scale survey
24 p3973 N84-35159
HARRIS, B.
Stochastic models for common failures of components
[AD-A141490] 19 p3033 N84-29237
HARRIS, C. D.
Aerodynamic characteristics of 2 NASA supercritical airfoils with different maximum thickness
[NASA-TM-X-2532] 18 p2784 N84-27667
HARRIS, C. E.
Fracture behavior of thick, laminated graphite/epoxy composites
[NASA-CR-3784] 11 p1627 N84-20648
A characterization of the fracture behavior of thick, notched, laminated graphite-epoxy composites
23 p3710 N84-33519
HARRIS, C. M.
A note on mixed exponential approximations for GI/G/1 waiting times
[AD-A139534] 14 p2219 N84-24313
HARRIS, D. D.
Off-line graphics processing: A case study
[DE84-002420] 06 p0898 N84-15832
HARRIS, D. F.
Single pilot IFR accident data analysis
03 p0311 N84-12031
HARRIS, D. H.
Synthesis of perfluoroalkylene dianilines
[NASA-CR-168004] 02 p0189 N84-11228
Thermal oxidative degradation reactions of perfluoroalkiethers
[NASA-CR-168224] 02 p0189 N84-11229
HARRIS, D. O.
Recommendations for future research on fracture mechanics life technology
[NASA-CR-170904] 08 p1169 N84-17615
A review of fracture mechanics life technology
[NASA-CR-170903] 08 p1170 N84-17622
HARRIS, E. L.
Primer for the Transportable Applications Executive
[NASA-TM-86062] 09 p1367 N84-18921
HARRIS, E. S.
Around-a-mast quadrifilar microstrip antenna
[AD-D011051] 22 p3571 N84-32617
HARRIS, F. G.
Modelling for fatigue crack growth prediction in Mirage IIIO frame 26
[ARL-STRUC-REPT-401] 24 p3912 N84-34772
HARRIS, F. I.
An evaluation of an automatic cell detection and tracking algorithm
[AD-A130088] 01 p0107 N84-10694
HARRIS, F. R.
Project Waterhole III 05 p0640 N84-14210
HARRIS, G. A.
Eruption of permanent dentition in rhesus monkeys exposed to ELF (Extremely low frequency) fields
[AD-A132065] 03 p0413 N84-12703
HARRIS, G. E.
Aspects of electroless nickel plating on molybdenum
[DE84-006434] 20 p3158 N84-30057
HARRIS, J.
Biochemical measurements of the human stress response
[AD-A139381] 14 p2184 N84-24089
HARRIS, J. E.
Performance of add-on-type heat pump water heaters using two different test methods
[PB83-222703] 03 p0359 N84-12332
Space Technology Experiments Platform (STEP) overview 08 p1109 N84-17212
HARRIS, J. H.
Equilibrium studies for low-aspect-ratio torsatrons
[DE84-002264] 06 p0920 N84-15979
ATF-1 torsatron studies
[DE84-003314] 09 p1392 N84-19089
HARRIS, J. M.
New polymers for low-gravity purification of cells by phase partitioning
[NASA-CR-170957] 06 p0809 N84-15267
Stress fractures: The remodelling response to excessive repetitive loading
[AD-A130881] 06 p0887 N84-15765
Light scattering condensation nuclei, and air mass trajectories at Whiteface Mountain: Summer 1982
[PB84-104363] 08 p1188 N84-17742
Geophysical monitoring for climatic change Number 11,
[PB84-181841] 21 p3449 N84-31883
HARRIS, J. O., JR.
Edge-sealed PLZT shutters for operation in high-humidity/temperature environments
[DE83-012627] 01 p0148 N84-10971
HARRIS, J. W.
Linguistics 22 p3684 N84-33359
HARRIS, L. E.
N(2) and CO vibrational CARS and h(2) rotational CARS spectroscopy of CH(4)-N(2)O flames
[AD-A132234] 04 p0493 N84-13238
CARS studies of nitramine lova propellant combustion
[AD-A135813] 09 p1280 N84-18357
Theoretical calculation of H/sub 2 S- and Q-branch spectra for propellant flames 13 p1943 N84-22636
CARS studies of nitramine LOVA propellant combustion 13 p1951 N84-22683
Theoretical calculations of H(2) CARS spectra for propellant flames
[AD-A135818] 17 p2619 N84-26758
HARRIS, M.
A 500-watt solid-state RF power amplifier AM-7209( )/VRC
[AD-A129327] 01 p0071 N84-10463
HARRIS, M. E.
Avionics fault tree analyzer 06 p0771 N84-15053
HARRIS, M. J.
Investigation of a pneumatic thrust deflector based on circulation control technology
[AD-A128950] 11 p1652 N84-20784
Optimizing the thrust deflecting surface for the pneumatic thrust deflector
[AD-A140612] 17 p2609 N84-26703
HARRIS, P.
Shock front pumped stokes and anti-stokes reflectivity contributions
[AD-A139134] 14 p2145 N84-23857
HARRIS, P. J.
Surface chemistry in the flotation of minerals
06 p0817 N84-15323
HARRIS, R.
Fluid replacement during hypothermia
[AD-A143807] 23 p3810 N84-34159
HARRIS, R. P.
Holding fixture for a hot stamping press
[NASA-CASE-GSC-12619-1] 03 p0382 N84-12491
High-temperature, high-pressure optical cell
[NASA-CASE-MFS-26000-1] 07 p1075 N84-16986
HARRIS, S. A.
A method of measurement of behavioral factors affecting information systems design and use: An application of multidimensional scaling in uncovering individual psychological structure 08 p1239 N84-18099
HARRIS, S. E.
Laser techniques for extreme-ultraviolet spectroscopy
[DE83-014834] 02 p0227 N84-11486
Auger electron pumping of short wavelength lasers
[DE84-009240] 19 p3030 N84-29217
HARRIS, S. P.
Mass spectrometric decomposition studies on several azido and nitrato polymers, thermal plasticizers and novel nitramines
[AD-A134636] 08 p1137 N84-17398
HARRISON, A.
The United Kingdom SATMaP program
[E84-10002] 04 p0551 N84-13627
HARRISON, C. A.
An experimental study of cylindrical antennas radiating in or near a lossy half space
[AD-A138206] 12 p1807 N84-21779
HARRISON, C. G. A.
Magnetic anomalies in east Pacific using MAGSAT data
[E84-10060] 06 p0864 N84-15630
HARRISON, D. C.
Pharmacologic counter measures minimizing post-space flight orthostatic intolerance
[NASA-CR-173861] 21 p3457 N84-31936
HARRISON, D. E.
Recent work and thoughts on eddy-mean flow interaction
[AD-P002651] 11 p1689 N84-21016
HARRISON, H. N.
Development and marketing of a prosthetic urinary control valve system
[NASA-CR-170994] 12 p1867 N84-22168
HARRISON, H. R.
Synthesis of Co2+ and Ni2+ stabilized beta alumina
11 p1744 N84-21378
HARRISON, I., JR.
Downloading and post-processing of bibliographic information with the TIS (Technology Information System) intelligent gateway computer
[AD-A130800] 01 p0162 N84-11062
HARRISON, M.
Participation of ethylene in gravitropism
09 p1359 N84-18878
HARRISON, P. J.
Design of an integrated software system based on the relational data base model
[AD-A140628] 17 p2752 N84-27470
HARRISON, P. M.
Radial SI latches vibration test data review
[NASA-TM-86454] 21 p3412 N84-31638
HARRISON, R. G.
Observation of optical hysteresis in an all-optical passive ring cavity 14 p2240 N84-24447
HARRISON, T. D.
Field experience with voltage breakdown in photovoltaic (PV) arrays
[DE84-005551] 12 p1844 N84-22020
HARRISON, T. G.
An intelligent manual for price analysis
[AD-P002798] 13 p2057 N84-23344
Report on the feasibility of designing expert systems for contract price analysis
[AD-A140854] 17 p2770 N84-27590
HARRISON, W.
Geology hydrology and mineral resources of crystaline rock areas of Northeastern US
[DE84-013671] 21 p3432 N84-31774
Geology, hydrology, and mineral resources of crystalline rock areas of the Lake Superior region, US, part 1
[DE84-012682] 21 p3432 N84-31775
Geology, hydrology, and mineral resources of crystalline rock areas of the northeastern United States
[DE84-013672] 22 p3514 N84-32901
Crystalline rocks of the Northeastern United States
[DE84-013673] 22 p3624 N84-32962
Crystalline rocks of the Lake Superior region, United States, part 2
[DE84-014802] 23 p3799 N84-34087
HARRISON, W. W.
Glow discharge as an atomization and ionization device
[DE84-005253] 11 p1629 N84-20662
HARROD, W. J.
Rank modification method for certain singular systems of linear equations 03 p0427 N84-12797
HARRY, D. H.
Modifications of the boundary-element method for application to bending of layered composites
02 p0187 N84-11217
HARSHA, P. T.
Turbulent transport models for scramjet flowfields
[NASA-CR-172284] 10 p1491 N84-19747
Detailed flow measurements in fuel-rich, particle-laden plumes 13 p1952 N84-22690
Computational hierarchy for the analysis of combustion phenomena in ramjet environments
21 p3354 N84-31277
HARSHVARDHAN
Longwave radiation parameterization for UCLA/GLAS GCM
[NASA-TM-86072] 11 p1681 N84-20971
Development and preliminary tests of a new long-wave radiation parameterization 12 p1857 N84-22097
HART-SMITH, L. J.
Optimized bolted joint
[NASA-CASE-LAR-13250-1] 11 p1664 N84-20859
HART, C. E.
Real-time hybrid computer simulation of a small turboshaft engine and control system
[NASA-TM-83579] 12 p1771 N84-21548
HART, C. F.
Liouvillian Green's-function theory of spectral line shape
[AD-A132467] 04 p0589 N84-13894
HART, C. M.
Mapping the acid stimulation in the Beowawe geothermal field using surface electrical potentials
[DE84-004995] 11 p1672 N84-20908
HART, F. H.
Effects of long-time elevated temperature exposures on hot-isostatically-pressed power-metallurgy Udimet 700 alloys with reduced cobalt contents
[NASA-TM-83632] 19 p2985 N84-28917
HART, G. K.
A laboratory approach to technology transfer: The passive solar cooling system concept example
16 p2516 N84-26152
HART, G. W.
The application of management techniques to defence and other information services: The British approach
11 p1751 N84-21433
HART, H.
Voyager 1 imaging and IRIS observations of Jovian methane absorption and thermal emission: Implications for cloud structure
[NASA-CR-173567] 16 p2579 N84-26544
An advanced host-target environment for the military computer family
[AD-P003428] 20 p3271 N84-30760

HART, J.
Theoretical and experimental studies in support of the geophysical fluid flow experiment
24 p3923 N84-34832

HART, J. E.
Alternative experiments using the geophysical fluid flow cell
[NASA-CR-3766] 06 p0677 N84-15706

HART, J. L.
Validation of the MAGNA (Materially and Geometrically Nonlinear Analysis) computer program for nonlinear finite element analysis of aircraft transparency bird impact
[AD-P003229] 17 p2596 N84-26642

HART, R.
Delineation of wetland boundaries using vegetation within the Altamaha River Basin of Georgia
[AD-A142590] 20 p3228 N84-30515
An advanced host-target environment for the military computer family
[AD-P003428] 20 p3271 N84-30760

HART, R. E.
Voltage controlling mechanisms in low resistivity silicon solar cells: A unified approach
[NASA-TM-83612] 11 p1673 N84-20916

HART, R. E., JR.
High speed, low cost, LEO-thermal-cycling facility
19 p3048 N84-29340

HART, R. L.
Rush field experiments: Growth and initial decay of the mixed layer over an autumn landscape
[DE84-001671] 07 p1040 N84-16743

HART, R. S.
Determination of strong ground motion in complex structures using dynamic raytracing
[AD-A138559] 14 p2176 N84-24036

HART, R. W.
The structure of the internal wave Mach front generated by a point source moving in a stratified fluid
[AD-A133775] 05 p0680 N84-14470

HART, S. L.
Development program for a 200kW, CW gyrotron
[DE84-007945] 14 p2149 N84-23674

HART, T. T.
Damage thresholds of thin film materials and high reflectors at 248 nm
[DE83-012663] 03 p0380 N84-12472
Recent damage results for antireflection coatings at 355 NM
[DE84-011560] 21 p3371 N84-31388

HARTEL, C. R.
Reverse engineering of the multiple launch rocket system. Human factors, manpower, personnel, and training in the weapons system acquisition process
[AD-A142849] 21 p3349 N84-31247

HARTER, J. A.
Semielliptical cracks along holes in plates and lugs
[AD-A130786] 01 p0096 N84-10622

HARTER, W. G.
Patterns of energy levels and spectra for polyatomic molecules
[DE84-007501] 15 p2405 N84-25436

HARTFORD, A., JR.
Laser diagnostics of materials and chemistry
[DE84-007469] 15 p2339 N84-25043
Disappearance rates of C2(a 3 Pi u) and C2(X 1 Sigma g +) with O2 over the temperature range 298-1300 deg K
21 p3373 N84-31405

HARTHUN, M. H.
Orbiter windward surface entry Heating: Post-orbital flight test program update
01 p0024 N84-10150

HARTIG, W.
The change of the mechanical properties of steel strip in processing lines
[BMFT-FB-T-83-178] 08 p1135 N84-17383

HARTILL, D.
The problem of tracking charged particles in the cores of high energy jets in a high rate environment
06 p0911 N84-15916

HARTINELLI, G.
Reduction of structural complexity in evaluating convolutions by polynomial transforms
[FUB-59-1981] 03 p0426 N84-12794

HARTL, P.
Compact receivers for Shuttle Imaging Radar (SIR)-B SAR mission
23 p3778 N84-33953
Simulation of Shuttle Imaging Radar (SIR)-B imagery over Freiburg test site
23 p3779 N84-33958
Outlook of lasers in space operations and navigation
24 p3904 N84-34722

HARTLEY, C.
Manned maneuvering unit simulations on the Space Operations Simulator
24 p3864 N84-34490

HARTLEY, F. R.
Alkane soluble transition metal complexes
[AD-A137252] 10 p1458 N84-19525

HARTLEY, J. G.
Modeling of transient heat pipe operation
[NASA-CR-173305] 09 p1312 N84-18575

HARTLEY, P. J.
Parameterization and shape of B-spline curves for CAD
19 p3080 N84-29541

HARTLEY, R. L.
The effect of locus of control on performance with man-machine dialogues
08 p1239 N84-18098

HARTMAN, A. S.
Wind tunnel material test to quantify Space Shuttle external tank insulation requirements
[AD-A141563] 19 p2981 N84-28890

HARTMAN, C. W.
High-power RF compressor
[DE84-013118] 22 p3578 N84-32664

HARTMAN, F. C.
Chemical and physical characterization of the activation of ribulosebiphosphate carboxylase/oxygenase
[DE83-017226] 04 p0571 N84-13764

HARTMAN, G. A.
A total life prediction model for stress concentration sites
[NASA-CR-168225] 01 p0094 N84-10612

HARTMAN, M. F.
Support for the Naval Research Laboratory Environmental Passive Microwave Remote Sensing Program
[AD-A133330] 06 p0847 N84-15526

HARTMAN, W. J.
Method for counting errors, deletions, and additions when both transmitted and received data are known
[PB84-127620] 09 p1305 N84-18531

HARTMANN, D. L.
Low frequency variability and tropical-extratropical interactions
12 p1859 N84-22113

HARTMANN, G. K.
The Optical Coincidence Information Retrieval system (OCIR)
[MPAE-L-66-84-10] 20 p3316 N84-31059
Study of the system of middle atmosphere-ionosphere using remote-sensing data
[NASA-TM-77764] 23 p3797 N84-34074

HARTMANN, G. L.
Performance and robustness aspects of digital control systems
01 p0015 N84-10098

HARTMANN, H.
Study on the baffle system of the sounding rocket payload INTER-ZODIAK
[BMFT-FB-W-83-015] 07 p0962 N84-16239

HARTMANN, L.
Ultraviolet and optical observations of metal deficient red giants and chromospheric models
24 p3974 N84-35166

HARTMANN, L. W.
Combined ultraviolet studies of astronomical sources
[NASA-CR-175234] 08 p1242 N84-18121

HARTMANN, M. J.
Aeronautical propulsion: Present status and future directions
[NASA-TM-83589] 07 p0943 N84-16119

HARTMANN, U.
Emission-proof valves
[BMFT-FB-HA-83-028] 10 p1503 N84-19822

HARTMANN, W. K.
Does saturation cratering exist in the solar system?
13 p2078 N84-23467

HARTMEN, C. W.
Recent results of studies of acceleration of compact toroids
[DE84-008330] 19 p3109 N84-29752

HARTNAGEL, H. L.
Micro-reactions of metal contacts on various types of GaAs surfaces
[AD-A139412] 14 p2242 N84-24464

HARTNETT, E. B.
Geokinetic effects on motion sensitive instrumentation, systems and facilities
[AD-A142682] 20 p3241 N84-30575

HARTNEY, M. A.
Homogenizing properties of diblock polymers in blends of corresponding homopolymers
[AD-A132832] 05 p0659 N84-14334

HARTOP, R. W.
High power K sub a -band transmitter for planetary radar and spacecraft uplink
22 p3572 N84-32625

HARTSCHUH, D.
SREM (Software Requirements Engineering Methodology) evaluation, volume 1
[AD-A141631] 19 p3077 N84-29525
SREM (Software Requirements Engineering Methodology) evaluation. Volume 2: Specifications and technical data
[AD-A141632] 19 p3078 N84-29526

HARTSON, H. R.
Issues in interaction language specification and representation
[AD-A136943] 10 p1555 N84-20188
Dialogue management: New concepts in human-computer interface development
[AD-A136945] 10 p1555 N84-20190
Human-computer interactions and decision behavior
[AD-A139759] 15 p2384 N84-25299

HARTT, R. W.
Local automation model: Functional description
[AD-A133389] 06 p0935 N84-16077
Local automation model: System specification
[AD-A141503] 19 p3116 N84-29798

HARTUM, T. C.
The C-squared system: A general-purpose neuron network model
[AD-A136191] 09 p1304 N84-18524

HARTVIGSEN, D.
An extension of matching theory
[AD-A137605] 11 p1706 N84-21120

HARTWEG, L. R.
RIM as an implementation tool for a distributed heterogeneous database
12 p1890 N84-22311

HARTWELL, T. D.
Personal exposure to volatile organics and other compounds indoors and outdoors: The TEAM (Total Exposure Assessment Methodology) study
[PB83-231357] 01 p0115 N84-10744

HARTWIG, E. C.
A high current heavy ion beam transport experiment at LBL
[DE84-009225] 20 p3294 N84-30912

HARTY, R. B.
Space-reactor system and subsystem investigations: Cost and schedule estimates for reactor and shield subsystems technology development. SP-100 program
[DE84-000112] 04 p0603 N84-13984
SP-100 program: Space reactor system and subsystem investigations
[DE84-003217] 08 p1231 N84-18045

HARTZ, U. H.
Experimental investigation of turbulent flow in the inlet region of an eccentric annulus
[KFK-3573] 07 p1004 N84-16511

HARTZELL, G. E.
A research study of the assessment of escape impairment by irritant combustion gases in postcrash aircraft fires
[FAA-CT-84-16] 22 p3533 N84-32366

HARUYAMA, Y.
Electron capture cross sections in high energy He2+ + neutral Li collisions
[IPPJ-679] 21 p3500 N84-32162

HARVEY, B. R.
Results of the Australian geodetic VLBI experiment
04 p0520 N84-13416

HARVEY, C.
Sperry low temperature geothermal conversion system, phase 1 and phase 2. Volume 6: Economic studies
[DE84-008039] 15 p2363 N84-25181

HARVEY, C. C.
Anomalous behavior of ISEE-1 detected by the electron density experiment
08 p1116 N84-17259
The ISPM unified radio and plasma wave experiment
09 p1262 N84-18237

HARVEY, D. R.
Leadership, managership, and computers in today's Air Force
[AD-P003351] 18 p2912 N84-28468

HARVEY, E. D.
Eddy current thickness gauge for reel-to-reel tape processes
[DE84-004050] 08 p1162 N84-17567

HARVEY, J. K.
Instabilities in trailing vortices: Flow visualization using hot-wire anemometry
03 p0321 N84-12103

HARVEY, J. W.
Helium 10830 angstrom irradiance: 1975-1983
17 p2779 N84-27648

HARVEY, R. R.
T-phase recording by OBS near the conjugation of the Kuril and Japan trenches
19 p3060 N84-29418

HARVEY, R. W.
Density variation due to wave heating in Tokamak plasmas
[DE84-009402] 20 p3305 N84-30993

HARVEY, S. T.
Advanced composite elevator for Boeing 727 aircraft. Volume 1: Technical summary
[NASA-CR-3290] 18 p2792 N84-27722

HARVEY, W. A.
Magneto-optic garnet and liquid crystal optical switches
12 p1905 N84-22410

HARVEY, W. D.
An evaluation of factors affecting the flow quality in wind tunnels 14 p2096 N84-23577
HARWELL, K. E.
Expendable infrared source and method therefor
[AD-D011112] 22 p3561 N84-32551
HASAN, M. A. Z.
The effects of external and self excitations on axisymmetric jet turbulence and noise
05 p0743 N84-14878
HASEGAWA, H.
Welding deformations and residual stresses due to circumferential welding of cylindrical shells and hemispherical end plates
[DRIC-T-6968] 04 p0547 N84-13602
Welding deformations and residual stresses due to circumferential welding of cylindrical shells and hemispherical end plates
[BLL-DRIC-T-6968-(3623.66)] 06 p0851 N84-15549
Grain formation in the expanding gas flow around cool luminous stars 16 p2569 N84-26489
Heterogeneous condensation of ice mantle around silicate core grain in molecular cloud
16 p2570 N84-26491
Far infrared extinction coefficients of minerals of interest for astronomical observations 16 p2571 N84-26502
Origin of amorphous interstellar grains
16 p2571 N84-26503
Grain formation in the expanding gas flow around cool luminous stars 18 p2947 N84-28687
Heterogeneous condensation of ice mantle around silicate core grain in molecular cloud
18 p2948 N84-28689
Far infrared extinction coefficients of minerals of interest for astronomical observations 18 p2949 N84-28700
Origins of amorphous interstellar grains
18 p2949 N84-28701
HASEGAWA, R.
Density of occupied d states in transition metal-metalloid metallic glasses
[DE84-001206] 04 p0503 N84-13298
HASELDEN, G. G.
The potential of the single screw compressor
11 p1640 N84-20722
HASELTINE, E.
Cost and performance analysis of visual and sensor simulation systems using Defense Mapping Agency data bases
[AD-A135955] 09 p1259 N84-18220
HASELTON, N. H.
A proposed RF-technology R/D plan for the United States
[DE84-000643] 04 p0522 N84-13434
HASEMI, Y.
Recent Japanese progress in fire modeling
04 p0511 N84-13353
Thermal instability in transient compartment fire: An approach to characterize flashover and estimate its mechanisms 04 p0513 N84-13366
Similarity analysis of the flow characteristics in diffusion flames 04 p0513 N84-13367
HASER, L.
Information processing for the infrared balloon telescope Goldener Drache
[MPE-38] 03 p0461 N84-13035
HASH, G. L.
Radiation testing of the CMOS 8085 microprocessor family
[DE83-014604] 02 p0271 N84-11771
HASHEMI-NASSAB, S. M. R.
A relational database system for microcomputers: Analysis, design, implementation and performance evaluation 17 p2771 N84-27598
HASHEMIAN, H. M.
Response of installed temperature sensors
[DE83-015509] 02 p0224 N84-11471
HASHIMOTO, M.
Plastic deformation of ice single crystals containing inclusions 15 p2353 N84-25114
HASHIMOTO, R.
Strength evaluation test of pressureless-sintered silicon nitride at room temperature
[NASA-TM-77394] 14 p2119 N84-23700
HASHIMOTO, S.
Suboptimal LQ control problem using reconstructed state feedback control law 07 p0982 N84-16364
HASHIOKA, M. H.
Analysis of a communication interface using multimicroprocessing
[INPE-2823-PRE/377] 02 p0208 N84-11356
Model and analysis of a communication interface with distributed processing for application in a communication network by packet switching
[INPE-2773-TDL/136] 08 p1215 N84-17926
HASINGER, S. H.
The 80-micron particle acceleration in an expanding gas supplement
[AD-A130991] 02 p0218 N84-11426
HASKELL, A.
European Space Agency, ERS-1 program
07 p0990 N84-16419
European plans for handling off-line tasks of the ERS-1 23 p3784 N84-33997
HASKELL, K. H.
Portable FORTRAN contour-plotting subprogram
[DE83-017422] 04 p0582 N84-13846
HASLETT, B.
Thermal control 09 p1269 N84-18289
HASLING, D. W.
Strategic explanations for a diagnostic consultation system
[AD-A140014] 15 p2396 N84-25371
HASS, H.
Study of the system of middle atmosphere-ionosphere using remote-sensing data
[NASA-TM-77764] 23 p3797 N84-34074
HASSA, C.
Velocity visualization in gaseous flows
11 p1610 N84-20543
HASSALL, B. J. M.
The 1978 - 1984 fading of the Seyfert 1 galaxy F-9
24 p3972 N84-35149
IUE low dispersion spectra reference atlas
24 p3976 N84-35179
The outbursts of dwarf novae
24 p3979 N84-35204
HASSAM, A. B.
Nonlinear mode coupling theory of the lower-hybrid-drift instability
[AD-A135538] 08 p1187 N84-17734
HASSAN, A. A.
Geometries for roughness shapes in laminar flow
[NASA-CASE-LAR-13255-1] 03 p0320 N84-12092
HASSAN, H. F.
Effect of magnetic bending on the high-frequency stability of the ELMO Bumpy Torus
[DE83-017177] 03 p0450 N84-12961
HASSAN, S. S.
Optical extinction theorem theory of optical multi-stability bifurcations and turbulence in the Fabry-Perot interferometer 14 p2239 N84-24442
Optical bistability from the Dicke model
14 p2239 N84-24443
HASSANEIN, A. M.
Modeling the interaction of high power ion or electron beams with solid target materials
[DE84-009126] 20 p3296 N84-30931
HASSBERGER, J. A.
Comparison between measured and predicted performance of a high speed, free surface liquid jet flowing along a curved wall
[DE83-012728] 01 p0082 N84-10530
Stability of the FMIT high speed, free surface liquid jet flowing along a curved wall
[DE84-003856] 10 p1494 N84-19767
HASSEL, H.
High power bogie for 350 km/h. Design and definition
[MBB-UD-376-OE] 05 p0687 N84-14518
HASSELMAN, D. P. H.
Thermo-mechanical and thermal behavior of high-temperature structural materials
[AD-A140520] 16 p2461 N84-25775
HASSELMANN, K.
MIZEX: A program for mesoscale air-ice-ocean interaction experiments in Arctic marginal ice zones. 2: A science plan for a summer marginal ice zone experiment in the Fram Strait/Greenland sea: 1984
[AD-A134872] 08 p1187 N84-17737
HASSELTON, A. J.
Dispersion experiments with sulfur hexafluoride from the 213m high meteorological mast at Cabauw in the Netherlands 08 p1183 N84-17706
HASSEMER, J. H.
Principal facts, base station descriptions and plots for gravity stations on and near the Butte 1 degree x 2 degree quadrangle, Montana
[PB84-168103] 15 p2369 N84-25216
HASSENPFLUG, W.
Initial alignment and augmentation of the ARINC 705 strapdown AHRS LTR-81 16 p2447 N84-25699
HASSENZAHL, W. V.
The technology of superconducting accelerator dipoles
[DE83-016470] 02 p0299 N84-11963
LBL program of 1 meter long, 50 mm diameter bore, dipoles with fields greater than 8 tesla
[DE84-002902] 07 p1073 N84-16973
Critical current density of bronze-processed multifilimentary Nb-3Sn wires with magnesium addition to the matrix
[DE84-014579] 23 p3719 N84-33576
HASSETT, P. J.
LANDSAT-5 orbit adjust maneuver report
[E84-10155] 19 p3039 N84-29276
HASSIN, R.
Search among queues
[AD-A131639] 03 p0424 N84-12773
HASSON, D. F.
Bending fatigue of a particulate SiC/Al 6061 metal matrix composite
[AD-A134108] 05 p0653 N84-14293
HASTERT, J. L.
Polycrystalline MgAl2O4 spinel for high performance windows
[AD-P003202] 17 p2592 N84-26615
HASTINGS, D. E.
Ambipolarity and transport with resonant ion diffusion in EBT
[DE84-000333] 04 p0606 N84-14000
Neoclassical transport associated with collisionless detrapping in a bumpy torus
[IPPJ-651] 10 p1580 N84-20350
Transport studies of ECH heated bumpy torus plasmas
[IPPJ-652] 10 p1580 N84-20353
Transport of a multiple-ion species plasma in the collisionless regime in a bumpy torus
[IPPJ-657] 11 p1734 N84-21307
HASTINGS, E.
Dynamically stable legged locomotion
[AD-A136644] 09 p1363 N84-18905
HASTINGS, E. C., JR.
Preliminary indications of water film distribution and thickness on an airfoil in a water spray
[NASA-TM-85796] 18 p2785 N84-27677
HASTINGS, S. P.
The number of solutions of an equation from catalysis
[AD-A134555] 07 p1063 N84-16896
HATAYA, M.
Ultrastructural alterations in skeletal muscle fibers of rats after exercise
[NASA-TM-76976] 23 p3804 N84-34117
HATCH, G. E.
Integration of species sensitivity and dosimetry data in the extrapolation of ozone and nitrogen dioxide health data from animals to man
[PB84-195312] 22 p3631 N84-33010
HATFIELD, F. J.
Experimental validation of the component synthesis method for predicting vibration of liquid-filled piping
10 p1510 N84-19882
HATFIELD, J.
Salts in the dry valleys of Antartica
13 p2085 N84-23510
HATFIELD, J. L.
Intercepted photosynthetically active radiation estimated by spectral reflectance
[E84-10109] 12 p1829 N84-21927
HATFIELD, L.
Coordinated research program in pulsed power physics
[AD-A129554] 01 p0138 N84-10905
Coordinated research program in pulsed power physics
[AD-A139321] 14 p2142 N84-23843
HATFIELD, N. D.
Water resources data for North Dakota: Water year, 1982
[PB84-136589] 10 p1528 N84-20008
HATHAWAY, M. D.
Aerodynamic design and performance of a two-stage, axial-flow compressor (Baseline)
[AD-A141796] 19 p2966 N84-28798
HATORI, T.
Conceptual design of the RFC reactor
[IPPJ-659] 11 p1733 N84-21304
Bounce resonance heating and radial transport of electrons in magnetic mirrors
[IPPJ-654] 11 p1734 N84-21309
Kolmogorov-style argument for the decaying homogeneous MHD turbulence
[IPPJ-677] 20 p3301 N84-30963
Turbulent diffusion for the radial twist map
[IPPJ-685] 23 p3826 N84-34267
HATRY, H. P.
Motivating managers: A guide to performance targeting and performance-based pay in state and local governments
[PB83-237834] 02 p0301 N84-11978
HATTORI, K.
Buildup and sustainment of 10(13) and cm(-3) plasma by ICRF in RFC-XX
[IPPJ-653] 10 p1580 N84-20356

Flow properties of concentrated suspensions
[NASA-TM-77431] 19 p3021 N84-29154
Plasma heating, confinement and stabilization experiments in axisymmetric mirror-cusp device
[IPPJ-690] 24 p3965 N84-35105

HATZFELD, D.
Tectonic deformation of the Andes and the configuration of the subducted slab in central Peru: Results from a micro-seismic experiment
[NASA-CR-175445] 11 p1681 N84-20972

HAU, E.
Wind energy: Large windpower systems to produce electric energy 23 p3785 N84-34008

HAUCK, C.
Custom integrated circuits 22 p3684 N84-33361

HAUCK, D.
New concepts in aircrew training using computer generated imagery: A study report
[AD-P003451] 21 p3509 N84-32228

HAUCK, H.
Investigations of Doppler position determination following the short arc and semi short arc techniques 08 p1174 N84-17645
The program ORBDOP (extended GEODOP) 19 p3039 N84-29280

HAUCK, M.
Modular Optoelectronic Multispectral Scanner (MOMS) data of Bolivia: Comparison with LANDSAT Multispectral Scanner (MSS) and geological interpretation 23 p3765 N84-33665

HAUCKE, H.
Period-doubling 2-torus state in a convecting He-3-superfluid He-4 solution
[DE84-009985] 22 p3666 N84-33243
Onset of oscillations in symmetric convective states in a superfluid He-3-He-4 mixture
[DE84-009984] 22 p3666 N84-33244

HAUDEN, D.
Low temperature quartz crystal oscillator fast warm-up SAW oscillator
[AD-A138024] 12 p1811 N84-21806

HAUENSTEIN, B. R.
VLSI (Very Large Scale Integrated) design of a 16 bit very fast pipelined carry look ahead adder
[AD-A136356] 09 p1306 N84-18540

HAUER, J. F.
Plant and operational features of the BPA 30 MJ superconducting magnetic energy storage system
[DE84-006006] 19 p3011 N84-29086
Commissioning tests of the Bonneville Power Administration 30 MJ superconducting magnetic energy storage unit
[DE84-006033] 20 p3285 N84-30860

HAUG, E. J.
Vehicle dynamic analysis with flexible components
[AD-P002939] 14 p2197 N84-24179

HAUG, H.
Theory of resonance-enhanced optical nonlinearities in semiconductors 14 p2234 N84-24407
Simulations of the dynamics of optical bistability with fluctuations 14 p2236 N84-24421

HAUG, K.
UV and optical observations of the novalike object V3885 SGR 24 p3979 N84-35207

HAUGEN, G.
Fiber optics temperature and pressure probe
[DE84-001785] 04 p0605 N84-13990
Instrumentation for remote sensing over fiber optics
[DE84-001788] 04 p0605 N84-13991

HAUGLAND, E. J.
High efficiency IMPATT diodes for 60 GHz intersatellite link applications
[NASA-TM-83584] 10 p1485 N84-19708

HAUK, R.
Technology of thin silicon foils in respect to the fabrication of monolithic integrated sensors
[BMFT-FB-T-83-089] 02 p0206 N84-11347

HAUPT, G. R.
Directional growth of pearlite in Fe-C eutectiod alloys
[DE84-007368] 20 p3156 N84-30042

HAUPT, R. J.
Domestic scheduled air transport for the year 2000. Financial and capacity related effects of supply alternatives, considering, also, the cooperation with high speed rail transport services
[DFVLR-FB-83-03] 03 p0328 N84-12141
Effects on rail transport caused by air transport supply alternatives within the Federal Republic of Germany for the year 2000
[DFVLR-MITT-83-14] 08 p1101 N84-17160

HAUPT, R. L.
Simultaneous nulling in the sum and difference patterns of a monopulse antenna
[AD-A131665] 03 p0361 N84-12347
Nulling with limited degrees of freedom
[AD-A132276] 04 p0521 N84-13424
Correcting feed displacements in a space fed lens antenna
[AD-A137702] 11 p1643 N84-20743
Feed error effects on lens performance
[AD-P003513] 21 p3385 N84-31481
Reducing grating lobes due to subarray amplitude tapering
[AD-A143644] 23 p3730 N84-33644
Feed displacement correction in a space fed lens antenna
[AD-D011155] 23 p3742 N84-33722

HAUS, H. A.
Optics and quantum electronics 22 p3682 N84-33343

HAUSER, D.
Measurements of elastohydrodynamic film thickness, wear and tempering behavior of high pressure oxygen turbopump bearings
[NASA-CR-171006] 13 p1997 N84-22960

HAUSER, J. A., II
Draft standard method of test for plane-strain stress-corrosion-cracking resistance of metallic materials in marine environments
[AD-A139752] 15 p2297 N84-24785

HAUSER, M. G.
Submillimeter wavelength survey of the galactic plane from l = -5 deg to l = +62 deg: Structure and energetics of the inner disk
[NASA-TM-86077] 20 p3319 N84-31069

HAUSER, S. G.
Technical and economic investigations of a low-temperature Rankine-cycle heat engine
[DE83-016757] 01 p0091 N84-10596
Innovative industrial-materials processes
[DE83-016784] 03 p0405 N84-12649

HAUSMAN, B. A.
Numerical modeling of ionospheric parameters from global IMS (International Magnetospheric Study) magnetometer data for the CDAW-6 intervals
[PB84-151307] 14 p2177 N84-24041

HAUSMANN, G.
Optimization of the thermodynamic cycles of a collective heating power station 23 p3832 N84-34305

HAUSMANN, M. D.
The effect of haze on an operator's visual field and his target detection performance
[AD-A138330] 13 p2020 N84-23099

HAUSMANN, W.
Secondary power systems for fighter aircraft experiences today and requirements for a next generation 03 p0334 N84-12171

HAUSNER, A.
Writing TSO (Time Sharing Option) commands in FORTRAN
[AD-A136584] 09 p1367 N84-18925

HAUSNER, H.
Structure and mechanical properties in the Al2O3-MgO system 19 p2996 N84-28984

HAUSSUEHL, S.
Optically nonlinear materials for tunable UV-lasers
[BMFT-FB-T-84-133] 23 p3755 N84-33806

HAUSTEIN, H. D.
Decision support for innovation management: Application to the lighting industry
[IIASA-RR-83-29] 15 p2416 N84-25503

HAUTH, R. L.
Method for determining how to operate and control wind turbine arrays in utility systems
[DE84-005817] 12 p1813 N84-21817

HAVEN, T.
Avionics concept evaluation at the force level 06 p0769 N84-15038

HAVEN, Y.
Atom-jump versus continuous models for fast ion conduction 11 p1741 N84-21357

HAVENER, A. G.
On the application of holographic interferometry to axisymmetric air flows 05 p0678 N84-14458

HAVENS, D. A.
Pattern nulling by reflector shaping
[AD-A138049] 12 p1806 N84-21773

HAVENS, S. J.
Phenoxy resins containing pendent ethynyl groups
[NASA-TM-85747] 07 p0978 N84-16338
Ethynyl-terminated ester ologomers and polymers therefrom
[NASA-CASE-LAR-13118-1] 19 p2997 N84-28988

HAVERDINGS, H.
Improved pilot model for application to a computer flight testing program for helicopters
[NLR-MP-83052-U] 20 p3129 N84-29869

HAVERKAMP, H.
Kinematics of the structure and morphology during surface reactions between transition metals and molecular hydrogen 06 p0816 N84-15317

HAVILAND, J. K.
Digital control system for space structural dampers
[NASA-CR-175355] 07 p0964 N84-16246
Digital control system for space structural dampers
[NASA-CR-173867] 21 p3353 N84-31267

HAWK, J. D.
Development of MCAERO wing design panel method with interactive graphics module
[NAS 1.60:3775] 14 p2104 N84-23623

HAWKE, B. R.
Remote sensing and geologic studies of the planetary crusts
[NASA-CR-173216] 07 p1091 N84-17092
Recent comet impacts on the moon: The evidence from spectral reflectance studies 13 p2076 N84-23453

HAWKE, H. R.
Surface compositions in the Aristarchus Region: Implications for regional stratigraphy 13 p2087 N84-23519

HAWKE, R. S.
Rail accelerator development for ultra-high pressure research
[DE84-002452] 07 p0960 N84-16223

HAWKINS, D. J.
Industrial hygiene data for F-16 aircraft refueling inside closed aircraft shelters. Supplementary
[AD-A138364] 12 p1865 N84-22154

HAWKINS, D. M.
Selecting a subset of regression variables so as to maximize the prediction accuracy at a specified point
[CSIR-TWISK-275] 04 p0591 N84-13903
A method for stratigraphic correlation of several boreholes
[CSIR-TWISK-281] 07 p1032 N84-16692
Design and application of two stage evaporative cooling systems 11 p1640 N84-20720
Variable selection in heteroscedastic discriminant analysis
[CSIR-TWISK-283] 13 p2031 N84-23171

HAWKINS, F. J.
Starlab Ground System guidelines document
[NASA-CR-175192] 10 p1592 N84-20435

HAWKINS, G. F.
A technique for the nondestructive detection of voids and composition anomalies in metal matrix composite wires using X or gamma rays
[AD-A135481] 08 p1132 N84-17359

HAWKINS, H. L.
Emissions variability and traversing on production RB211 engines
[PNR-90176] 13 p1933 N84-22573

HAWKINS, J. A.
Establishment and discontinuance criteria for precision landing systems
[AD-A135606] 09 p1254 N84-18185

HAWKINS, J. L.
AgRISTARS documents tracking list report
[E84-10030] 01 p0100 N84-10647

HAWKINS, L. L.
In-house welding studies supporting the prelaunch assessment of the STS-6 main engines
[NASA-TM-82552] 02 p0229 N84-11499

HAWKINS, R. L.
A spectrum of methane from 700 to 5500 cm-1
[NASA-CR-175360] 07 p0969 N84-16280

HAWKINS, R. S.
Evaluation of automated imagery analysis algorithms for use in the three-dimensional nephanalysis model at AFGWC (Air Force Global Weather Central)
[AD-A131986] 03 p0410 N84-12686

HAWKINS, S.
Magnetic switching
[DE83-012952] 03 p0433 N84-12841
Speech communication 22 p3684 N84-33358

HAWKINS, W. J.
Comparison of statistical energy analysis and finite element analysis vibration prediction with experimental results 10 p1516 N84-19923

HAWKS, K. B.
LANTIRN (Low Altitude Navigation and Targeting Infrared System for Night) - tommorrow's software development today
[AD-P003583] 21 p3339 N84-31188

HAWORTH, L. A.
Preliminary airworthiness evaluation of the UH-60 helicopter with T700-GE-701A engines installed
[AD-A140882] 17 p2606 N84-26696
JUH-1H pneumatic boot deicing system flight test evaluation
[AD-A140986] 18 p2793 N84-27725

HAWRYLUK, A. M.
Submicron structures technology and research 22 p3683 N84-33353

HAWS, L. D.
Integral low-energy thermite igniter
[DE84-011082] 20 p3150 N84-29999

HAWTHORNE, S. W.
Information Center Complex publications and presentations, 1971-1982
[DE84-010603] 20 p3315 N84-31055

HAXO, H. E., JR.
Permeability of polymetric membrane lining materials
[PB84-166859] 15 p2302 N84-24618

HAY, J.
Hematologic and biochemical data on healthy individuals participating in a physical conditiuning program
[AD-A140464] 16 p2536 N84-26278

HAY, J. L.
Simulation algorithms for parallel processes
[CSC-1023/00-FIN] 18 p2921 N84-28527

HAYAKAWA, S.
Zero gravity experiment of superfluid helium
[ISAS-604] 07 p0960 N84-16225
Summary of the Symposium on Atomic Collision Data for Diagnostics and Modelling of Fusion Plasma
11 p1736 N84-21328

HAYAMI, R.
Effects of applied pressure on hot-pressing of Beta-SiC
[NASA-TM-77397] 23 p3723 N84-33593

HAYASAKA, E.
Non-metallic optical cable with optical fiber catenary for long span aerial application 11 p1722 N84-21235

HAYASHI, K.
Development of short-distance optical transmission cord 11 p1727 N84-21268

HAYASHI, T.
Measurement of alpha/epsilon ratio by using a Sun pointing satellite Tansei 4 10 p1446 N84-19447
Measurement of incidence angle dependence of solar absorptance 10 p1447 N84-19452
Fabrication and evaluation of a high density multi fiber plastic connector 11 p1720 N84-21223

HAYATO, S.
Electronic 4-wheel drive control device
[NASA-TM-77618] 24 p3910 N84-34764

HAYD, A.
Theoretical treatment of turbulent plasma dynamics
10 p1584 N84-20381
Laser-plasma interaction and self organization phenomena in magnetoplasmas
10 p1584 N84-20382
The significance of the pinch phase for the production of neutrons in a plasma focus
[IPF-83-2] 14 p2231 N84-24379

HAYDEN, B. P.
Classification of coastal environments, shorezone profile dynamics
[AD-A139947] 15 p2373 N84-25240
Climate prediction. Part 1: Cyclone frequency
[AD-A143576] 22 p3625 N84-32973

HAYDEN, C. C.
Dynamic resonances in the reaction of fluorine atoms with hydrogen molecules
[DE84-013240] 23 p3823 N84-34242

HAYDEN, C. M.
The advantages of sounding with the smaller detectors of the VISSR atmospheric sounder
[NOAA-TM-NESDIS-6] 20 p3240 N84-30571

HAYDN, R.
A concept for the processing and display of Thematic Mapper data 20 p3214 N84-30417
Modular Optoelectronic Multispectral Scanner (MOMS)-01 on STS-7 and STS-11: Missions and results
23 p3765 N84-33862
Spectral significance of Modular Optoelectronic Multispectral Scanner (MOMS) versus LANDSAT data and future aspects: Preliminary results
23 p3765 N84-33864

HAYDON, G. W.
Estimating the performance of telecommunication systems using the ionospheric transmission channel. Ionospheric communications analysis and prediction program user's manual
[PB84-111210] 08 p1147 N84-17468

HAYDUK, R. J.
Vertical drop test of a transport fuselage section located forward of the wing
[NASA-TM-85679] 01 p0094 N84-10611
Vertical drop test of a transport fuselage center section including the wheel wells
[NASA-TM-85706] 03 p0388 N84-12531
Survey of NASA research on crash dynamics
[NASA-TP-2298] 12 p1826 N84-21901

HAYES, A. B.
The role of gravity in leaf blade curvatures
09 p1357 N84-18865

HAYES, C. H.
Space Shuttle main engine powerhead structural modeling, stress and fatigue life analysis. Volume 1: Gasdynamic environment of the SSME HPFTP and HPOTP turbines
[NASA-CR-170999] 11 p1625 N84-20635
Space Shuttle main engine powerhead structural modeling, stress and fatigue life analysis. Volume 2: Dynamics of blades and nozzles SSME HPFTP and HPOTP
[NASA-CR-171000] 11 p1625 N84-20636
Space Shuttle main engine powerhead structural modeling, stress and fatigue life analysis. Volume 3: Stress summay of blades and nozzles at FPL and 115 percent RPL loads. SSME HPFTP and HPOTP blades and nozzles
[NASA-CR-171001] 11 p1625 N84-20637

HAYES, D. K.
Gypsy moths and American dog ticks: Space partners
18 p2800 N84-27768

HAYES, E. F.
Reactive resonance and angular distributions in the rotating linear model
[DE84-011354] 20 p3295 N84-30919

HAYES, E. R.
Ragone characteristics of aqueous mobile batteries and their application in projecting ranges of electric vehicles
[DE83-014701] 03 p0404 N84-12642
Testing and evaluation of EV-1300 lead-acid modules for the hybrid vehicle application
[DE84-006718] 14 p2249 N84-24510

HAYES, G. A.
Investigation of acoustic emission during fracture toughness testing of chevron-notched specimens
[AD-A141315] 18 p2814 N84-27865

HAYES, G. H.
Density of occupied d states in transition metal-metalloid metallic glasses
[DE84-001206] 04 p0503 N84-13298
EXAFS study of Metglas 2605 CO
[DE84-001203] 04 p0503 N84-13299

HAYES, J. M.
Versatility of laser induced fluorescence line narrowing in chemical analysis
[DE84-012834] 21 p3360 N84-31316

HAYES, J. V.
Characteristics of wind direction meander during onshore flow at a coastal site
[DE84-004178] 11 p1688 N84-21007
Brookhaven National Laboratory Coastal Meteorology Program, 1972-1983
[DE84-008584] 18 p2891 N84-28349

HAYES, K.
The performance of 16000 wire mini-drift MWPC system 06 p0912 N84-15922

HAYES, K. O.
The NESDIS-SEL Lear aircraft instruments and data recording system
[NOAA-TR-NESDIS-9] 17 p2607 N84-26698

HAYES, M. H.
Artificial intelligence applied to spectrum estimation
[AD-A142202] 19 p3007 N84-29062
Procedures for signal reconstruction from noisy phase
[AD-A142185] 19 p3016 N84-29120

HAYES, N. V.
Energy consumption analysis of the Venus Deep Space Station (DSS-13) 04 p0519 N84-13413

HAYES, P.
Automated RTOP management system
11 p1748 N84-21406

HAYES, P. C., JR.
Determination of a jet fuel metal deactivator by high performance liquid chromatography
[AD-A132220] 04 p0509 N84-13336

HAYES, P. D.
Water resources data for Illinois, water year 1982. Volume 1: Illinois except Illinois River Basin
[PB84-120112] 09 p1338 N84-18738
Water resources data for Illinois, water year 1982. Volume 2: Illinois River Basin
[PB84-120120] 09 p1338 N84-18739

HAYES, P. J.
Flexible parsing
[AD-A131495] 01 p0123 N84-10803
Investigation of fast initialization of spacecraft bubble memory systems
[NASA-TM-85832] 18 p2832 N84-27977

HAYES, R. D.
Water resources data for South Carolina, water year 1982
[PB84-162577] 14 p2170 N84-24003

HAYMAKER, R.
Research in elementary particle physics
[DE84-006130] 12 p1903 N84-22392

HAYN, D.
Contribution to the performance of microjets
[NASA-TM-77730] 24 p3900 N84-34694

HAYNER, D. A.
The missing cone problem in computer tomography and a model for interpolation in synthetic aperture radar
[AD-A142421] 20 p3174 N84-30157

HAYNES, B. W.
Updated process flowsheets for manganese nodule processing
[PB83-226340] 01 p0047 N84-10303

HAYNES, C.
Uninstalled aero engine testing in operation in the Royal Air Force 16 p2453 N84-25731

HAYNES, C. V.
Substance geology of the western desert in Egypt and Sudan revealed by Shuttle Imaging Radar (SIR-A)
07 p0987 N84-16392

HAYNES, G. A.
Performance of alkaline battery cells used in emergency locator transmitters
[NASA-TP-2277] 11 p1646 N84-20759

HAYNES, J. F.
Contingency power concepts for helicopter turboshaft engine
[NASA-TM-83679] 14 p2109 N84-23648
Rotorcraft contingency power study
[NASA-CR-174675] 15 p2261 N84-24580

HAYNES, T. H., JR.
Invariant means on semi-topological transformation semigroups 04 p0593 N84-13912

HAYNES, W. M.
Liquified natural gas densities: Summary of research program at the National Bureau of Standards
[PB84-202647] 22 p3675 N84-33297

HAYNIE, F. H.
Research program for effects of acidic deposition on materials and cultural resources
[PB83-232074] 01 p0051 N84-10331

HAYS, A. P.
Integrated technology wing design study
[NASA-CR-3586] 23 p3693 N84-33402

HAYS, P.
Aeronomy 20 p3219 N84-30449

HAYS, R. A.
J-integral tearing instability analysis for 8-inch diameter ASTM A106 steel pipe
[AD-A142589] 20 p3153 N84-30023

HAYS, R. T.
Research issues in training device design: The organization of a data base
[AD-A140815] 17 p2611 N84-26710

HAYWARD, D. R.
The interpretation of design requirements for multi-market helicopters 16 p2435 N84-25617

HAYWARD, G.
The 1.4 gb/s optical repeater development
[AD-A143331] 22 p3657 N84-33182

HAYWARD, R. A.
Electromagnetic waves near dielectric structures
[AD-A132630] 05 p0670 N84-14403

HAZARD, C.
The role of the Automated Plate Measuring (APM) machine in developing a program to discover QSOs automatically 18 p2843 N84-28054

HAZELTINE, R. D.
Hamiltonian formulation of reduced magnetohydrodynamics
[DE83-016758] 04 p0609 N84-14021
Nonlinear kinetic theory of a single helicity tearing instability
[DE84-000049] 04 p0610 N84-14024
Nonlinear trapped electron response for drift wave turbulence in Tokamaks
[DE84-005385] 11 p1737 N84-21335
Theory of anomalous tearing mode growth and the major Tokamak disruption
[DE84-005383] 12 p1911 N84-22448
Nonlinear dynamics of magnetic islands with curvature and pressure
[DE84-010968] 20 p3285 N84-30859
Generalized Poisson brackets and nonlinear Liapunov stability: Application to reduced MHD
[DE84-009973] 20 p3302 N84-30972

HAZEWINKEL, M.
Current algebras and the identification problem
[MC-BW-187/83] 07 p1066 N84-16923
Nonexistance of finite dimensional filters for conditional statistics of the cubic sensor problem
[MC-BW-178/83] 07 p1067 N84-16931
Symmetric systems with semisimple structure algebra: The quaternionic case
[NASA-CR-173421] 13 p2034 N84-23193

HAZI, A. U.
Resonance-resonance coupling in dissociative electron attachment
[DE84-001767] 04 p0602 N84-13972
HAZIZA, M.
Study on the perturbation of lunar and planetary orbiters
[MATRA-CMT-RT005] 23 p3697 N84-33429
HAZLE, M.
ARDS (Automated Requirements Development System) user's manual. Volume 1: Document analysis, revision
[AD-A135925] 09 p1398 N84-19128
HAZLETT, R. N.
A statistical examination of the effect of composition on the freezing points of hydro-carbon mixtures
[AD-A131000] 02 p0203 N84-11321
Liquid and solid phase compositions in a partially frozen jP-5 fuel low in n-alkanes
[AD-A143390] 22 p3561 N84-32553
HAZLEWOOD, C. F.
International Workshop on Biophysical Correlates of Cellular Function UNESCO
[AD-A142490] 20 p3257 N84-30671
HE, F. B.
An accurate theory and simple fourth order governing equations for orthotropic and composite cylindrical shells
[AD-A134532] 07 p1062 N84-16886
HE, G.
Parametric characteristics of an electrically initiated HF laser
[AD-A144324] 24 p3908 N84-34757
HE, J. L.
Selected aspects of radio interference from HVDC (High Voltage Direct Current) converter stations
[PB83-219675] 01 p0075 N84-10494
HEAD, J.
RAMIS DBMS update 11 p1748 N84-21407
HEAD, J. W.
Volcanism and rift formation in Beta Regio, Venus: New radar results 11 p1754 N84-21450
Significant achievements in the planetary geology program
[NASA-CR-3782] 11 p1758 N84-21474
Theoretical aspects of photoclinometric terrain profiling on the Galilean satellites 13 p2074 N84-23441
New models for landform evolution on Io 13 p2074 N84-23443
Venus banded terrain: Evaluation of tectonic models for the origin of banding 13 p2077 N84-23458
Venus: The nature of the surface from Venera panoramas 13 p2077 N84-23459
Geology of Maxwell Montes, Venus 13 p2077 N84-23460
Venus: Global distribution of Pioneer-Venus radar roughness and reflectivity and global correlation of altimetry, roughness and reflectivity observations 13 p2077 N84-23461
Surface compositions in the Aristarchus Region: Implications for regional stratigraphy 13 p2087 N84-23519
Elysium Region, Mars: Characterization of tectonic features 13 p2089 N84-23534
HEAD, N. C.
The PET/MAESTRO: A user's view 05 p0724 N84-14750
HEAD, R. C.
Competition: An integral part of the acquisition process
[AD-P002774] 13 p2054 N84-23321
HEAD, V. L.
Hot-flow tests of a series of 10-percent-scale turbofan forced mixing nozzles
[NASA-TP-2268] 08 p1156 N84-17525
HEADLEY, T. J.
Gel structures in leached alkali silicate glass
[DE84-009928] 18 p2819 N84-27899
HEADRICK, A. K.
Determination of evaporation rates of organic solvents by thin-film evaporometer
[DE84-012308] 21 p3360 N84-31313
HEALD, S. M.
Density of occupied d states in transition metal-metalloid metallic glasses
[DE84-001206] 04 p0503 N84-13298
EXAFS study of Metglas 2605 CO
[DE84-001203] 04 p0503 N84-13299
Focusing X-ray monochromator for EXAFS studies in the energy range 4-30 keV
[DE84-001903] 05 p0685 N84-14505
HEALY, A. W.
The Sacramento Peak fast microphotometer 18 p2841 N84-28040
HEAMES, T. J.
SEAMOPT: Sterling engine optimization code
[DE84-012098] 22 p3605 N84-32840
HEAP, N. W.
Acoustic-to-Seismic coupling over porous ground surfaces
[AD-A138753] 13 p2011 N84-23046
HEARD, W. L., JR.
Erectable beam experiment 08 p1110 N84-17219
HEARLE, J. W. S.
Textile ballistic performance (data base)
[AD-A143249] 22 p3560 N84-32541
HEARN, C. P.
Effect of nonideal square-law detection on static calibration in noise-injection radiometers
[NASA-TM-85684] 07 p0997 N84-16462
An investigation of the existence of a surface water layer on aircraft radomes during simulated flight in heavy precipitation
[NASA-TM-85813] 19 p3003 N84-29035
Theoretical and experimental studies of error in square-law detector circuits
[NASA-TM-86307] 23 p3741 N84-33714
HEARN, M. F.
A high resolution solar atlas for fluorescence calculations
[NASA-CR-173366] 10 p1597 N84-20465
HEARON, B. F.
Effects of a negative G strap on restraint dynamics and human impact response
[AD-A138642] 13 p2024 N84-23121
HEASLEY, J. N.
The modelling of the solar upper photosphere and lower chromosphere based upon ATM data
[NASA-CR-170920] 02 p0308 N84-12021
HEATH, B.
Low-cost single-crystal turbine blades, volume 1
[NASA-CR-168218] 06 p0805 N84-15247
HEATH, B. A.
Thermal endurance of silicone/glass sleeving by the cyclic electrical proof test method of IEC 216 (first report)
[ERA-82-91] 13 p1999 N84-22967
Thermal endurance of silicone/glass sleeving by the cyclic electrical proof test method of ICC 216 (second report)
[ERA-82-136] 13 p1999 N84-22968
HEATH, D. F.
NIMBUS-7 SBUV (Solar Backscatter Ultraviolet) observations of solar UV spectal irradiance variations caused by solar rotation and active-region evolution for the period November 7, 1978 - October 26, 1979
[PB84-108166] 08 p1188 N84-17743
Temporal variations of solar UV spectral irradiance caused by solar rotation and active region evolution 17 p2780 N84-27650
HEATH, J. B. R.
Capabilities of the NRCC/NAE flight impact simulator facility
[AD-A130849] 06 p0784 N84-15136
Degradation of the bird impact resistance of polycarbonate
[AD-P003193] 17 p2591 N84-26606
Comparison of bullet resistance of new and aged polycarbonate
[AD-P003198] 17 p2592 N84-26611
HEATH, M. T.
Simultaneous heat and mass transfer in absorption of gases in turbulent liquid films
[DE83-016394] 02 p0220 N84-11445
Solution of sparse underdetermined systems of linear equations
[DE83-016460] 02 p0283 N84-11853
Sparse Matrix Software Catalog
[AD-A133559] 06 p0898 N84-15830
Orthogonal schemes for structural optimization
[AD-P002954] 14 p2199 N84-24194
HEATH, W. S.
Airborne Intelligent Display (AID) phase 1 software development
[ATC-123] 04 p0484 N84-13181
HEATHCOTE, R. M.
Engine affordability
[PNR-90178] 13 p1933 N84-22574
HEATHERLY, D. E.
Composition gradients in electrolyzed LiCl-KCl melts
[DE83-012347] 01 p0037 N84-10237
HEATHERSHAW, A. D.
Surface wave propagation over sinusoidally varying topography: Theory and observation
[IOS-159-PT-1] 13 p1991 N84-22922
Surface wave propagation over sinusoidally varying topography: Theory and observation
[IOS-159-PT-2] 13 p1991 N84-22923
HEATON, G.
Experiments to study the feasibility of making an X-ray laser at the Novette laser facility
[DE83-015615] 03 p0380 N84-12476
HEAVEY, K. R.
Computations of projectile magnus effect at transonic velocities
[AD-A133212] 06 p0783 N84-15127
HEBEKER, F. K.
New hydrodynamic potentials and a free boundary value problem of the stationary Stokes equation
[PREPRINT-636] 17 p2760 N84-27524
HEBER, U.
Spectral analysis of helium poor hot subdwarfs 24 p3976 N84-35181
Limb-darkening and metal abundances in the sdOB primary of the eclipsing binary LB 3459 (AA Dor) 24 p3976 N84-35183
An estimate of V348 Sgr effective temperature 24 p3978 N84-35201
HEBERT, L. M.
Millimeter wave transmission systems and related devices
[NASA-CR-173515] 15 p2319 N84-24918
HEBNER, R. E.
Development of power system measurements
[PB84-109891] 08 p1153 N84-17509
HEBRARD, P.
An aerodynamic study of combustion in the combustion chambers of turbomachines: Experimental and theoretical approaches 15 p2293 N84-24764
HEBRON, D. E.
Direct measurement of the energy spectrum of an intense proton beam
[DE84-000457] 04 p0597 N84-13939
HECHINGER, E.
Group Agromet Monitoring Project (GAMP), phase 1
[ESA-CR(P)-1769] 07 p1023 N84-16637
HECHT, H.
Microcomputers: Introduction to features and uses
[PB84-178821] 17 p2750 N84-27456
Fault tolerant software modules for SIFT
[NASA-CR-165874] 21 p3463 N84-31955
HECHT, M.
Microcomputers: Introduction to features and uses
[PB84-178821] 17 p2750 N84-27456
Fault tolerant software modules for SIFT
[NASA-CR-165874] 21 p3463 N84-31955
HECHT, R. J.
Behavior of Ni-Cr-Si coating alloys in Na2SO4, V2O5 and mixed salt hot corrosion
[DE84-012386] 21 p3367 N84-31363
Coating developments to restrict strategic materials usage 23 p3704 N84-33483
HECK, A.
Preliminary results of a statistical classification of ultraviolet stellar spectra 09 p1409 N84-19205
Comparative study of period determination methods 09 p1410 N84-19216
Statistical determination of the precision obtained by a photometric reduction algorithm 09 p1410 N84-19217
Predictions: Also an astronomical tool 09 p1410 N84-19219
Prediction of spectral classification from photometric data. Application to the MK spectral classification and the Geneva photometric system 09 p1410 N84-19221
IUE low dispersion spectra reference atlas. Part 1: Normal stars
[ESA-SP-1052-PT-1] 16 p2576 N84-26531
Statistical classification of IUE stellar spectra by the Variable Procrustean Bed (VPB) approach 24 p3975 N84-35178
IUE low dispersion spectra reference atlas 24 p3976 N84-35179
An estimate of V348 Sgr effective temperature 24 p3978 N84-35201
HECK, B.
Accuracy of gravimetrically determined absolute and relative geoid heights
[SER-A-97] 03 p0407 N84-12661
HECK, F. M.
Modular stellarator reactor: A Fusion power plant
[DE84-002268] 07 p1077 N84-17001
HECK, M. L.
Aerodynamic coefficient identification package dynamic data accuracy determinations: Lessons learned 01 p0022 N84-10138
STS-8 bet results
[NASA-CR-172257] 02 p0184 N84-11197
STS-9 BET products
[NASA-CR-172314] 11 p1622 N84-20616
Final STS-11 (41-B) best estimate trajectory products: Development and results from the first Cape landing
[NASA-CR-172349] 18 p2802 N84-27786
STS-13 (41-C) BET products
[NASA-CR-172350] 20 p3134 N84-29901

HECKAMAN, D. E.
The design of a low loss light-weight s-band phase shifter
[AD-P003406] 19 p3015 N84-29110
HECKATHORN, H. M.
Computer simulation of the effects of transmission-averaging in microdensitometry
18 p2843 N84-28056
HECKEL, R. W.
Modeling degradation and failure of Ni-Cr-Al overlay coatings
[NASA-TM-83672] 18 p2813 N84-27858
HECKER, B.
Canyon and slope processes study. Volume 3: Biological processes
[PB84-169507] 17 p2738 N84-27393
HECKER, E.
Development of an electrically controllable gas flow valve for use in patient ventilators
[BMFT-FB-T-84-129] 23 p3757 N84-33819
HECKER, S. S.
Factors affecting plastic instability and sheet formability
[DE83-011146] 01 p0097 N84-10631
HED, P. P.
Novolac as stain protective film during optical glass fabrication
[DE84-005735] 13 p2044 N84-23260
Spherical lapping velocities
[DE84-005734] 15 p2344 N84-25070
HEDAYATOLAH-TABRIZI, L.
Ill-posed problems in optimal control systems and a method to solve them 17 p2756 N84-27497
HEDBERG, A.
Observations of stimulated electromagnetic emissions during ionospheric heating experiments
05 p0635 N84-14179
First observations of 140 MHz plasma line backscatter during healthy experiments at Tromsoe
[UIO-SR-84-02] 20 p3243 N84-30588
HEDBERG, L. I.
Thin sets in nonlinear potential theory
13 p2032 N84-23178
HEDDINGS, H. E.
Dielectric resonators for use in microwave and millimeter-wave GaAs circuits
[AD-A132881] 05 p0675 N84-14440
HEDEMANN, M. A.
Low-inductance, dual-feed diode development
[DE84-000117] 04 p0527 N84-13485
HEDGECOCK, P. C.
The magnetic-field investigation on ISPM
09 p1260 N84-18230
HEDGECOKE, R. L.
Laboratory evaluation of tunable atomic line molecular spectrometers for benzene analysis
[PB84-177765] 17 p2672 N84-27032
HEDGEPETH, J. M.
Finite element analysis of wrinkling membranes
[NASA-CR-172325] 14 p2158 N84-23926
Support structures for large infrared telescopes
[NASA-CR-3800] 20 p3200 N84-30328
HEDIN, R. C.
Beam recombination via cylindrical mirror
[AD-D011104] 22 p3601 N84-32812
HEDLUND, E. R.
High altitude aerodynamic tests with simulated heat-shield outgassing
[AD-A132078] 04 p0492 N84-13227
HEDMAN, S. G.
Calculation of transonic flow around two wing-fuselage combinations using a full potential equation method
[FFA-137] 06 p0783 N84-15132
HEDRICK, C. L.
Ambipolarity and transport with resonant ion diffusion in EBT
[DE84-000333] 04 p0606 N84-14000
HEDRICK, J. K.
Application of active and passive suspension techniques to improve high speed ground vehicle performance
[PB83-224576] 01 p0164 N84-11076
HEDSTROM, G. W.
Theory of pulse propagation in fluid saturated porous layers
[DE84-002714] 07 p1003 N84-16503
HEDSTROM, J. C.
Vapor-phase heat-transport system
[DE84-001341] 04 p0535 N84-13516
Vapor-phase heat-transport system
16 p2518 N84-26161
HEDSTROM, J. F.
Mode-to-mode vibrational energy transfer in (1)B2 aniline induced by collisions with CO/sub 2
[DE84-007197] 15 p2406 N84-25440
HEEGER, A. J.
Charge storage in doped poly(thiophene)
[AD-A137085] 10 p1455 N84-19506
Program for research on conducting polymers
[AD-A142148] 19 p3000 N84-29009
HEEL, F.
Preliminary investigations concerning a 90 GHz radiometer satellite experiment
[DFVLR-FB-84-02] 15 p2280 N84-24693
Preliminary investigations concerning a 90 GHz radiometer satellite experiment
23 p3781 N84-33978
HEELIS, R. A.
Preliminary data processing plan for the thermal plasma experiment on the HILAT satellite
[AD-A132017] 03 p0340 N84-12209
HEENAN, A. T.
Alternative strategies for space station financing
[NASA-CR-175412] 11 p1752 N84-21437
HEEREMA, F. J.
An engineering data management system for computer aided design
[NLR-MP-82050-U] 09 p1405 N84-19180
Introduction to computer-aided design/computer-aided manufacturing
[NLR-MP-83018-U] 15 p2393 N84-25363
A data management and presentation tool for engineering and research
[NLR-MP-83044-U] 17 p2754 N84-27482
HEFER, G.
Transonic cryogenic test section for the Goettingen tube facility
[NASA-TM-77050] 07 p0959 N84-16219
HEFFERLE, P.
Photothermal analysis of thin films
[AD-A144472] 24 p3967 N84-35120
HEFFERNAN, A. P.
Report of the 68th National Conference on Weights and Measures 1983
[PB84-110998] 08 p1141 N84-17425
HEFFERNAN, M. M.
AFOS (Automation of Field Operations and Services)-era forecast verification
[PB84-129303] 10 p1541 N84-20098
HEFFLEY, E.
Psychophysiological tools in engineering psychology
[AD-P003337] 18 p2911 N84-28461
HEFFNER, R. H.
Muon spin relaxation in ferromagnetic PdMn
[DE83-012659] 03 p0453 N84-12979
HEFFTER, J. L.
Branching Atmospheric Trajectory (BAT) model
[PB83-233023] 01 p0110 N84-10717
HEFLIN, W. L.
Summary of research, academic departments, 1982-1983
[AD-A140059] 15 p2416 N84-25507
HEFNER, B. B., JR.
Development of a 611 MHz feed for a 9-meter reflector
[NASA-TM-86300] 23 p3730 N84-33641
HEGDE, U. G.
Turbulence generated pressure fluctuations in a class of interior flows 10 p1423 N84-19306
Rocket motor aeroacoustics 13 p1944 N84-22642
HEGE, P.
The SARIB vibration absorber
[SNIAS-832-210-104] 16 p2502 N84-26058
HEGEMIER, G. A.
Report and recommendations for improving constitutive relations used in computer codes
[AD-A133239] 06 p0897 N84-15823
HEGG, D. R.
ACOSS eleven (Active Control Of Space Structures), volume 1
[AD-A135675] 09 p1273 N84-18311
ACOSS eleven (Active Control Of Space Structures), volume 1
[AD-A140025] 15 p2282 N84-24703
ACOSS eleven (Active Control Of Space Structures), volume 2
[AD-A140026] 15 p2282 N84-24704
HEGG, R. G.
Head-Up Display (HUD) technology demonstration
[AD-A134695] 08 p1104 N84-17180
HEGGE, F. W.
Complex demodulation: A technique for assessing periodic components in sequentially sampled data
[AD-P003845] 24 p3939 N84-34933
HEGYI, D. J.
The detection of faint space objects using solid state imaging detectors
[AD-A139297] 14 p2250 N84-24513
HEIDE, W.
Acoustic mixing of an immiscible alloy (Pb-Zn) in microgravity 17 p2613 N84-26728
HEIDEMANN, U.
Reasons for numerical errors in digital computers
[DFVLR-MITT-83-13] 07 p1056 N84-16839
HEIDEN, O.
Design of a project plan for the establishment of a lunar factory
[ILR-MITT-123] 10 p1435 N84-19379
HEIDGERKEN, R. A.
The design of a test procedure for the measurement of acoustic damping materials at low stress
[AD-A132701] 18 p2853 N84-28113
HEIDMANN, H. J.
System feasibility study on rendezvous and docking in transfer orbit, volume 1
[PV6-13/82-VOL-1] 12 p1776 N84-21588
System feasibility study on rendezvous and docking in transfer orbit, volume 2
[PRV6-13/82] 12 p1776 N84-21589
HEIDNER, R. F., III
Chain reaction mechanism for I2 dissociation in the O2 (1 delta)-I atom laser
[AD-A134370] 07 p1010 N84-16548
HEIFETZ, D.
Magnetic fusion energy plasma interactive and high heat flux components. Volume 1: Technical assessment of the critical issues and problem areas in the plasma materials interaction field
[DE84-011527] 20 p3302 N84-30969
HEIJMANS, H. J. A. M.
On the stability of the cell size distribution
[MC-TW-242/83] 07 p1065 N84-16907
On the stable size distribution of populations reproducing by fission into two unequal parts
[CWI-AM-R8401] 19 p3092 N84-29633
HEIJNEN, C. J. H.
Measurement and calculation of parameters in the silox diffusion process
[EUT-83-E-133] 13 p2048 N84-23289
HEIKES, B. G.
Atmospheric chemistry of H2O2, NO3, HONO, and HNO3: Influence of aqueous phase and heterogeneous processes
[PB84-183680] 20 p3243 N84-30592
HEIL, K.
Heat pipes made of roll bond panels
[BMFT-FB-T-83-116] 02 p0242 N84-11588
HEIL, T. G.
Quantum mechanical studies of heavy ion scattering processes
[DE84-010124] 19 p3103 N84-29711
HEILBRONN, D. J.
The microcode for the control processor of the ARO (array oriented processor) array processor
[AD-A143765] 23 p3813 N84-34175
HEILSTEDT, M. R.
Automated design of microprocessor-based digital filters
[AD-A132214] 04 p0581 N84-13832
HEIM, R., JR.
Satellite observations of variations in southern hemisphere snow cover
[PB83-252908] 04 p0568 N84-13745
HEIM, U.
Development of an electrically controllable gas flow valve for use in patient ventilators
[BMFT-FB-T-84-129] 23 p3757 N84-33819
HEIMBACH, J.
Development of a prototype cathode sputtering plant
[BMFT-FB-T-83-251] 10 p1472 N84-19617
HEIMBAUGH, R. M.
Experimental investigation of elastic mode control on a model of a transport aircraft
[NASA-CR-3472] 18 p2792 N84-27721
HEIMBUCH, A. H.
Vinyl styrylpyridines and their copolymerization with bismaleimide resins
[NASA-CASE-ARC-11429-1-CU]
07 p0979 N84-16341
HEIMERL, J. M.
Transport algorithms for methane flames
[AD-A133213] 06 p0801 N84-15221
HEIMO, A.
Prospective use of a mobile radiation system to validate techniques of radiation estimations from satellite records
10 p1536 N84-20064
HEIN, G.
A contribution to 3D-operational geodesy. Part 3: OPERA, a multipurpose program for operational adjustment of geodetic observations of terrestrial type
[SER-B-264-PT-3] 02 p0235 N84-11541
HEIN, G. F.
Solar photovoltaic powered refrigerators/freezers for medical use in remote geographic locations
[NASA-CR-168268] 15 p2361 N84-25183

HEIN, L. A.
Resilient seal ring assembly with spring means applying force to wedge member
[NASA-CASE-MFS-25678-1] 02 p0228 N84-11497
HEINE, R.
Integrated Computer-Aided Manufacturing (ICAM) architecture. Part 3, volume 2: Procedures
[AD-A137422] 10 p1563 N84-20240
Integrated Computer-Aided Manufacturing (ICAM) architecture, part 3. Volume 7: MFG01 glossary
[AD-A144426] 24 p3947 N84-34991
HEINECKE, P.
Microwave remote sensing experiment for first Spacelab mission
[BMFT-FB-W-83-022] 10 p1527 N84-20001
HEINEMANN, H.
Catalysed low-temperature production of methane from water and graphite
[DE83-012474] 02 p0203 N84-11325
Selective catalytic hydrogenation of polynuclear heteroaromatic nitrogen compounds with polymer-supported transition-metal compounds
[DE84-001326] 04 p0495 N84-13248
HEINEMANN, H. J.
Reports from the German Meteorological Service. Number 164: The climate in selected areas of the Federal Republic of Germany, Bremen
[ISBN-3-8848-210-5] 19 p3056 N84-29392
HEINEMANN, K.
Physical aging and its influence on the reliability of network epoxies and epoxy-matrix composites
[NASA-CR-173870] 21 p3356 N84-31289
In-situ TEM investigations of graphic-epitaxy and small particles
[NASA-CR-166593] 21 p3503 N84-32201
HEINEMANN, N.
Systematics of the equatorward diffuse auroral boundary
[AD-A132897] 05 p0704 N84-14617
HEINEN, J. T.
Update and review of accuracy assessment techniques for remotely sensed data
[E84-10029] 01 p0099 N84-10646
HEINIG, K.
Increase of efficiency in cooled high temperature turbines
[BMFT-FB-W-84-019] 21 p3343 N84-31212
HEINISCH, H. L.
Neutron cross sections for defect production by high-energy displacement cascades in copper
[DE84-002116] 07 p1083 N84-17045
Correlation of yield stress changes in 316 stainless steel irradiated with high-energy and fission neutrons
[DE84-002115] 08 p1133 N84-17368
Transmutation of manganese: Substituted steels in STARFIRE
[DE84-010402] 20 p3155 N84-30035
HEINK, P. J.
A conformal mapping technique for nonsymmetric potential flows with separation 02 p0173 N84-11138
HEINO, R.
Climatological statistics in Finland, 1961 - 1980
07 p1035 N84-16715
Diurnal and annual variation of climatic elements in Finland
[T-551.583.13(480)] 18 p2883 N84-28294
HEINRICH, H. J.
Hydrogen chloride measurements with a Differential Absorption and Scattering (DAS) lidar in the marine atmosphere 23 p3779 N84-33965
HEINRICH, W.
A contribution to the manufacture and characteristics of steel-wire-reinforced aluminum
[NASA-TM-76977] 07 p0974 N84-16310
HEINRICHS, H.
The stellar wind enigma in early type stars: The high-velocity, narrow absorption lines in the UV
24 p3971 N84-35141
HEINTZENBERG, J.
Mapping of Arctic haze using airborne lidar
24 p3907 N84-34746
HEINTZMAN, P.
Lead making for improved continuous-flow manufacturing systems 11 p1721 N84-21224
HEINZ, H. A.
An analysis of the acquisition strategy decision process along three dimensions of the acquisition improvement program
[AD-P002758] 13 p2051 N84-23305
HEINZ, R.
Ceramic components for gas turbines, phase 2
[BMFT-FB-T-83-198] 08 p1105 N84-17183
HEINZE, H.
Feasibility study of advanced optical techniques for ocean color measurement
[MBB-R3700/292] 12 p1837 N84-21974
HEINZEL, P.
Partial frequency redistribution in subordinate lines
15 p2421 N84-25543
HEIPLE, C. R.
Changes in acoustic emission peaks in precipitation strengthened alloys with heat tretment
[DE83-013611] 01 p0045 N84-10289
HEISE, J.
The ISPM solar-flare X-ray and cosmic gamma-ray burst experiment 09 p1262 N84-18238
HEISENBERG, W.
The actual content of quantum theoretical kinematics and mechanics
[NASA-TM-77379] 07 p1083 N84-17046
HEISER, W.
Air Force Academy Aeronautics Digest - Fall/Winter 1982
[AD-A135073] 08 p1099 N84-17145
Air Force Academy Aeronautics Digest
[AD-A142399] 20 p3125 N84-29849
HEISIG, R.
Gifford-McMahon refrigerator with split cold head
06 p0820 N84-15346
HEISIG, V.
Versatility of laser induced fluorescence line narrowing in chemical analysis
[DE84-012834] 21 p3360 N84-31316
HEISS, R.
Presentation of a new adaptive intraframe prediction procedure
[IND-FB-112] 07 p0994 N84-16446
HEITMAN, K.
Light aircraft sound transmission study
[NASA-CR-174540] 01 p0139 N84-10910
Light aircraft sound transmission study
[NASA-CR-173175] 07 p1069 N84-16941
HEITMANN, H. H.
Random fatigue of steels: Sequence effects during the crack initiation phase
[BMFT-FB-T-84-040] 16 p2466 N84-25804
HEITMANN, W.
Attenuation measurements between 840 and 1620 nm on an optical cable in Berlin
[FI-465-TBR-22] 03 p0442 N84-12906
HEITZINGER, B.
Oxidation characteristics of molybdenum-zirconium oxide cermets
[NASA-TM-77622] 23 p3723 N84-33594
HEJAZI, M.
Stiffness changes in unidirectional composites caused by crack systems
[CA-8311] 06 p0798 N84-15198
HEJNA, L.
Differential rotation of solar background magnetic fields during the 20th solar cycle 09 p1410 N84-19214
HELBIG, R.
Investigations on the reproducibility of the results of drop weight tests by the method of W. S. Pellini
[BLL-DRIC-T-6970-(3623.66)] 06 p0846 N84-15517
HELBLING, V. M.
Microcomputer software system development: Suggested revisions to MIL-STD-1521A for cost-effective acquisition of custom software through software engineering
[AD-A134363] 07 p1055 N84-16830
HELD, D. N.
SAR speckle noise reduction using Wiener filter
03 p0393 N84-12568
Synthetic aperture radar target simulator
[NASA-CASE-NPO-15024-1] 18 p2827 N84-27951
HELD, M.
Multiprofile-streak technique
[MBB-UA-776-83-O] 16 p2564 N84-26447
Characterizing shaped charge by stand-off behavior
[MBB-UA-693-83-O] 16 p2564 N84-26448
Warheads for SAM systems 21 p3351 N84-31257
HELDENBRAND, R. W.
Advanced turbocharger design study program
[NASA-CR-174633] 12 p1822 N84-21879
HELFAND, M.
SASS wind forecast impact studies using the GLAS and NEPRF systems: Preliminary conclusions
12 p1851 N84-22055
HELFENSTEIN, P.
Venus: The nature of the surface from Venera panoramas 13 p2077 N84-23459
HELFNER, H. L.
Abundances in galactic H2 regions, 3: G25.4-0.2, G45.5+0.06, M8, S159 and DR22
[NASA-TM-85962] 17 p2774 N84-27616
HELGODT, R.
Studies and tests of pyroelectric vidicons
[FOA-C-30317-E1] 10 p1489 N84-19738
HELIAS, F.
Characterization of pressure transducers for future cryogenic wind tunnels 16 p2476 N84-25873
HELIN, E. F.
The planet crossing asteroid survey: Progress in the analysis of populations and terrestrial-planet cratering rates 13 p2075 N84-23449
HELLARD, G.
Carbon structures on the wing of the regional transport plane ATR-42
[SNIAS-832-111-113] 16 p2448 N84-25704
HELLBAUM, R. F.
Evaluation of a total energy-rate sensor on a transport airplane
[NASA-TP-2212] 03 p0332 N84-12164
HELLER, B.
Manufacturing cost analysis for photovoltaic concentrator tracking structures
[DE84-006318] 13 p2009 N84-23032
HELLER, C.
Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-15429-1] 13 p1939 N84-22609
HELLER, C. A.
Products from the detonation of trinitrotoluene in air and nitrogen
[AD-A137809] 11 p1639 N84-20713
Analysis of particulates in the exhaust plume of a TF30 engine at military power
[AD-A142510] 20 p3131 N84-29882
HELLER, E. J.
Electronic spectra from molecular dynamics: A simple approach
[AD-A134325] 07 p1071 N84-16961
HELLER, G. S.
Application of surface magnetoplasmons on semiconductor substrates
[AD-A143767] 23 p3830 N84-34293
HELLER, H. H.
Research towards and development of aerospace vehicle noise certification with emphasis on propeller aircraft and helicopters 06 p0767 N84-15026
Field evaluation of proposed ICAO annex 16 takeoff noise certification procedure for propeller-driven airplanes not exceeding 5700 kg
[DFVLR-FB-83-34] 12 p1901 N84-22378
Propeller and rotor noise testing in aeroacoustic wind tunnels 14 p2097 N84-23583
HELLER, K.
Future search for grand unified theory magnetic monopoles
[DE83-009451] 06 p0926 N84-16015
HELLER, M.
Salinity and temperature effects on photosynthesis and organic carbon release rates by selected benthic macroalgae
[PB84-163146] 20 p3257 N84-30674
The use of adhesive-bonded rivets to lessen the reductions in fatigue life caused by rivet holes
[ARL-STRUC-REPT-399] 24 p3887 N84-34617
HELLER, P. L.
Sedimentary response to eocene tectonic rotation in western Oregon 13 p2013 N84-23063
HELLER, W. G.
Assessment of means for determining deflection of the vertical
[AD-A131286] 01 p0100 N84-10851
HELLERSTEIN, J.
Updating replicated files in real time distributed processing systems 22 p3670 N84-33264
HELLEUR, C. D.
Cervical spline analysis for ejection injury prediction
[AD-A131081] 01 p0114 N84-10739
HELLGREN, R.
Base blend projectiles: Range calculation program and efficiency comparisons
[FOA-C-20516-D2] 15 p2280 N84-24695
HELLIWELL, R. A.
VLF wave injections from the ground
05 p0634 N84-14173
HELLMANN, D.
Effect of specimen geometry on stable crack growth by nonlinear material behavior
[GKSS-83-E-38] 10 p1463 N84-19554
HELLMANN, J. R.
Energy release and transformation of shock-modified zirconia upon annealing to 1550 deg C
[DE83-017801] 05 p0755 N84-14954
HELLMEIER, H. J.
Fisheye objective in the dose range photogrammetry: Theoretical and practical investigations
[SER-C-286] 16 p2505 N84-26080
HELLSTEN, E.
Climatological statistics in Finland, 1961 - 1980
07 p1035 N84-16715
HELLSTEN, H.
Desk-top computer controlled instrument lathe for machining with high form accuracy
[FOA-C-30339-E1,E3] 08 p1214 N84-17918

Proceedings of the Conference on Microwave Signatures in Remote Sensing
[FOA-C-30359-E1,E3] 19 p3042 N84-29305

HELLSTROM, E. E.
AC conductivity of polycrystalline Ca-Alpha-double prime-alumina
[DE84-005529] 11 p1745 N84-21386

HELLSTROM, I.
Effects of long-term low-level radiofrequency radiation exposure on rats. Volume 5: Evaluation of the immune system's response
[AD-A138535] 14 p2184 N84-24087

HELLSTROM, K. E.
Effects of long-term low-level radiofrequency radiation exposure on rats. Volume 5: Evaluation of the immune system's response
[AD-A138535] 14 p2184 N84-24087

HELLSTROM, U. P.
Siemens plans 256 K memory chip to catch up with Japan 17 p2640 N84-26892

HELLUMS, J. D.
Fluid mechanical aspects of cell culture
[NASA-CR-171749] 09 p1360 N84-18886

HELLY, J. J., JR.
A representational basis for the development of a distributed expert system for Space Shuttle flight control
[NASA-TM-58258] 16 p2544 N84-26328

HELM, R. H.
Emittance calculations for the Stanford linear collider injector
[DE83-011851] 02 p0290 N84-11904

HELMBOLD, D.
Runtime detection and description of deadness errors in Ada tasking
[AD-A142239] 19 p3079 N84-29535

HELMICK, L. S.
FTIR analysis of aviation fuel deposits
[NASA-TM-83773] 23 p3726 N84-33608

HELMINCK, G. F.
Eisenstein series on the metaplectic group: An algebraic approach
[MATH-CENTRE-TRACTS-161] 08 p1217 N84-17937
Uniqueness of Whittaker models for irreducible objects in Alg(Mp(k))
[MC-ZW-203/83] 19 p3092 N84-29639

HELMINIAK, T. E.
Behavior of an aromatic heterocyclic polymer in salt solution
[AD-A134865] 08 p1138 N84-17401

HELMREICH, D.
Silicon foils growth by interface-controlled crystallization 18 p2937 N84-28628

HELMS, C. R.
Defects at electrode-oxide and electrode-silicon interfaces in VHSI device structures
[AD-A140814] 17 p2663 N84-26990

HELMS, H. E.
Advanced Gas Turbine (AGT): Power-train system development
[NASA-CR-168056] 01 p0089 N84-10581

HELMS, V. T., III
Leeward centerline and side fuselage entry heating predictions for the space shuttle orbiter 01 p0025 N84-10156
Heat transfer and oil flow studies on a single-stage-to-orbit control-configured winged entry vehicle
[NASA-TM-85833] 20 p3133 N84-29897

HELMY, A.
Calculation of structures and magnetic orientations in solid alpha- and beta-O-2 as a function of pressure
[DE83-015215] 05 p0756 N84-14958

HELMY, A. A.
High pressure properties of solid alpha oxygen 05 p0757 N84-14963

HELSLEY, C. W.
Airplane actuation trade study
[AD-A130709] 01 p0013 N84-10080

HELSTROM, C. W.
Computation of counting distributions arising from a single-stage multiplicative process
[AD-A131480] 01 p0072 N84-10471
Calculation of cumulative distributions and detection probabilities in communications and optics
[AD-A136561] 09 p1376 N84-18989

HELTON, F. J.
Magnetic fluctuations in high-beta sub p Tokamak plasmas
[DE83-015872] 05 p0751 N84-14929

HELTSLEY, F. L.
Transonic nozzle-afterbody flow field measurements using a laser Doppler velocimeter 14 p2098 N84-23592

HELZER, S. G.
Establishment and discontinuance criteria for airport traffic control towers
[AD-A133461] 06 p0785 N84-15141
Civilian residential fire fatality rates: Six high-rate states versus six low-rate states
[PB84-102615] 08 p1142 N84-17427

HEMENGER, P. M.
A model of the performance characteristics of silicon-gallium infrared detectors for low background applications
[AD-A143932] 23 p3825 N84-34256

HEMENWAY, P. D.
Minor planet observations and a dynamical reference system 19 p3120 N84-29828

HEMINGWAY, J. C.
An experimental evaluation of the Sternberg task as a workload metric for helicopter Flight Handling Qualities (FHQ) research
[NASA-TM-85884] 10 p1553 N84-20176

HEMKER, P. W.
A portable vector-code for autonomous multigrid modules
[MC-NW-154/83] 07 p1065 N84-16914
Multigrid methods for problems with a small parameter in the highest derivative
[MC-NW-158/83] 07 p1066 N84-16920

HEMMAT, M.
Radar remote sensing for crop classification and canopy condition assessment: Ground-data documentation
[E84-10020] 01 p0099 N84-10643

HEMMER, G. L.
SCPP (Sierra Cooperative Pilot Project) forecasting support, volume 1
[PB84-107911] 08 p1194 N84-17782

HEMMER, P. R.
Quantum optics and photonics 22 p3682 N84-33344

HEMMERICH, P.
The ISPM interstellar neutral-gas experiments 09 p1261 N84-18234

HEMMI, I.
Technique for removing resin from a molded object
[NASA-TM-77240] 11 p1641 N84-20729

HEMMING, D. F.
Methanol production from natural gas or coal
[DE83-901909] 01 p0053 N84-10340

HEMMINGS, D. L.
Retractable tie-down device
[AD-D011079] 21 p3413 N84-31643

HEMPHILL, R. R.
Acoustic ranging technique with application to assessment of low-frequency acoustic noise of wind turbines
[DE83-009106] 01 p0140 N84-10921
Aerodynamic sources of acoustic radiation from a single MOD-2 wind turbine
[DE84-000013] 06 p0909 N84-15905

HEMSCH, M. J.
Triservice program for extending missile aerodynamic data base and prediction program using rational modeling
[AD-A132455] 04 p0481 N84-13166

HENAGER, C. H.
Dislocation/obstacle interactions during low-dose irradiation creep of nickel
[DE84-001416] 04 p0504 N84-13303

HENCH, L. L.
Ultrastructure processing and environmental stability of advanced structural and electronic materials
[AD-A135107] 08 p1136 N84-17391

HENCKE, H.
Thermo-mechanical and thermal behavior of high-temperature structural materials
[AD-A140520] 16 p2461 N84-25775

HENDER, T. C.
ATF-1 torsatron studies
[DE84-003314] 09 p1392 N84-19089
Equilibrium calculations for helical axis stellarators
[DE84-010636] 18 p2933 N84-28598
Nonlinear interaction of tearing modes: A comparison between the Tokamak and the reversed field pinch configurations
[DE84-010582] 18 p2934 N84-28606

HENDERSON, A. J., JR.
Project Explorer: Get Away Special #007 18 p2800 N84-27773

HENDERSON, B. J.
AFWL benchmark computer program
[AD-A131273] 01 p0124 N84-10804

HENDERSON, C.
A study of air-pollution mixing heights and atmospheric turbulence over New York City, data report
[DE83-010624] 02 p0244 N84-11596

HENDERSON, D. L.
Emergency handling of compressed air casualties
[AD-A143598] 23 p3810 N84-34157

HENDERSON, D. O., JR.
Surface disturbances due to trailing vortices
[AD-A142693] 20 p3184 N84-30239

HENDERSON, D. W.
Load relaxation testing at medium strain rates
[DE84-004877] 10 p1461 N84-19544
Applicability of Hart's state variable model to large strain rate ranges
[DE84-004878] 10 p1462 N84-19549

HENDERSON, F. M.
Numerical computation of steady state scattered sound external to submerged infinite cylinders by combining finite element and integral equation methods
[AD-A134773] 06 p1227 N84-18020
Finite element prediction of acoustic scattering and radiation from submerged elastic structures 22 p3610 N84-32874

HENDERSON, H. R.
A comparison of measured and theoretical predictions for STS ascent and entry sonic booms 01 p0027 N84-10168

HENDERSON, H. W.
A numerical study of the global axisymmetric circulation with varying heating and rotation rates 02 p0246 N84-11607

HENDERSON, I.
The conjoint action of high and low cycle fatigue
[AD-A139205] 14 p2158 N84-23927

HENDERSON, J. B.
Space Shuttle reaction control subsystem propellant tank masked screen test 24 p3862 N84-34477

HENDERSON, K. E.
Preliminary evaluation of TM for soils information 20 p3216 N84-30427

HENDERSON, M. M.
Compilation of cooperative data element dictionary of five federal agencies' systems for processing of technical report literature
[AD-A130797] 01 p0161 N84-11059

HENDERSON, P. J.
Some aspects of creep in nickel-base super alloys
[NPL-DMA(A)-72] 15 p2294 N84-24769

HENDERSON, T.
Modeling the movement at the polar ice cap at the South Pole 14 p2164 N84-23957

HENDERSON, T. M.
Coated silica shells: An advanced hydrogen storage system
[DE84-008986] 20 p3163 N84-30088

HENDERSON, W. R.
Determination of the optimum crystallization conditions of a high thermal expansion glass-ceramic
[DE84-009734] 19 p3000 N84-29014

HENDEWERK, M.
Catalyzed photodissociation of water
[DE84-012253] 21 p3361 N84-31325

HENDLER, E.
Factors affecting human tolerance to sustained acceleration
[AD-A138520] 13 p2021 N84-23101

HENDRA, P. J.
Electrochemistry at the molecular level
[AD-A140070] 15 p2287 N84-24723

HENDRICKS, C. D.
Fueling of fusion devices by pellet injection: Development in the USA
[DE83-013706] 01 p0151 N84-10990
Interaction of a stream of dielectric spheres in an electric field in a high vacuum
[DE83-013695] 04 p0600 N84-13958
The 1982 laser program
[DE84-006476] 14 p2151 N84-23887

HENDRICKS, D. E.
Human engineering guidelines for management information systems. Change 1
[AD-A137808] 11 p1703 N84-21104

HENDRICKS, J. D.
Geochemical detection of prospective petroleum areas in Arctic regions 14 p2166 N84-23972

HENDRICKS, K. J.
Plasma conductivity experiments on pulsed high-voltage discharges by two coil RF-probe
[AD-A144595] 24 p3965 N84-35110

HENDRICKS, P. L.
Energy Data Base. Serial titles with ISSN listing
[DE84-003876] 21 p3518 N84-32289
Energy Data Base corporate author entries
[DE84-003877] 21 p3518 N84-32290

HENDRICKS, R. C.
Some inelastic effects of thermal cycling on yttria-stabilized zirconia
[NASA-TM-83488] 07 p1001 N84-16492

Experimental study of bubble cavities attached to a rotating shaft in a reservoir
[NASA-TM-83586] 08 p1157 N84-17533

HENDRICKSON, C. P.
Thinking big
[DE84-007412] 21 p3462 N84-31951

HENDRICKSON, R. G.
Survey of sensitivity analysis methodology
[PB84-166701] 16 p2552 N84-26375

HENDRIOCK, H. J.
Fluorothermoplastics for long life, weatherproof composites
[BMFT-FB-T-84-082] 20 p3164 N84-30096

HENDRY, A. W.
Indiana University Theoretical Particle Physics Group
[DE84-010593] 20 p3293 N84-30903

HENESIAN, M. A.
Large aperture optical switching devices
[DE84-005126] 12 p1908 N84-22433
Large aperture electro-optical switch
[DE84-013089] 22 p3588 N84-32728

HENG, H.
The effects of solid solution temperatures and cooling rates on the microstructures of BT3-1 titanium alloy
20 p3160 N84-30066

HENINS, I.
Recent results in the Los Alamos compact torus program
[DE83-014147] 03 p0446 N84-12930
Space resolved absolutely calibrated VUV spectroscopic measurements on CTX
[DE84-007490] 20 p3304 N84-30984
Mixed mode operation in CTX
[DE84-007493] 20 p3304 N84-30985
Ohmic heating to 100-eV and helicity injection in CTX
[DE84-007494] 20 p3304 N84-30986
Confinement time and energy balance in the CTX spheromak
[DE84-007492] 20 p3304 N84-30987

HENKE, B. L.
Development and application of low energy X-ray and electron physics
[AD-A140480] 16 p2556 N84-26397
Low energy X-ray and electron physics and applications to diagnostics development for laser-produced plasma research
[DE84-009842] 18 p2934 N84-28604

HENKE, K. R.
L-1011 testing with relaxed static stability
11 p1618 N84-20591

HENKEL, H. J.
Electrochemical-treeing (ECT) structures in high-voltage cable insulation
[BMFT-FB-T-83-087] 02 p0215 N84-11413

HENLEY, E. M.
Soliton bag: Dynamics and the quark plasma
[DE84-001103] 05 p0745 N84-14895

HENNE, P. A.
Configuration design studies and wind tunnel tests of an energy efficient transport with a high-aspect-ratio supercritical wing
[NASA-CR-3524] 19 p2955 N84-28727
Results of design studies and wind tunnel tests of high-aspect-ratio supercritical wings for an energy efficient transport
[NASA-CR-159332] 19 p2956 N84-28735

HENNEBERG, P.
Concept study phase A2 for the solar spectrograph PETRA
[BMFT-FB-W-83-014] 07 p1008 N84-16540
Development of a 60 cm photographic Zenith telescope, and construction of a prototype
[BMFT-FB-T-84-122] 23 p3826 N84-34263

HENNEBERT, J.
New techniques for medium voltage SF6 switches
[CAHIERS-TECHNIQUES-121]
10 p1488 N84-19726

HENNEKE, E. G.
Fatigue damage-strength relationships in composite laminates. Volume 1
[AD-A133485] 06 p0799 N84-15206

HENNESSY, D. G.
Tempering kinetics of alloy steels as a function of quench rate and M sub s temperature
[AD-A134806] 08 p1132 N84-17365

HENNESSY, J.
Research in VLSI systems. Heuristic programming project and VLSI theory project. A fast turn around facility for very large scale integration (VLSI)
[AD-A134809] 08 p1151 N84-17494
Research in VLSI (Very Large Scale Integration) systems
[AD-A136413] 09 p1307 N84-18542

HENNIN, S. F.
Geophysical investigations of a geothermal anomaly at Wadi Ghadir, eastern Egypt
[NASA-CR-173527] 14 p2175 N84-24030

HENNING, W.
High-sensitivity mass spectrometry with a tandem accelerator
[DE83-017914] 03 p0350 N84-12274

HENNINGER, J. H.
Solar absorptance and thermal emittance of some common spacecraft thermal-control coatings
[NASA-RP-1121] 14 p2119 N84-23698

HENNINGS, D.
A conical scan radiometer for an airplane mission
10 p1534 N84-20050
Aerosol detection by polarization measurements
10 p1535 N84-20057

HENNINGSEN, T.
Measurement of heat pump processes induced by laser radiation
[NASA-CR-168324] 09 p1319 N84-18620

HENOUX, J. C.
The ISPM solar-flare X-ray and cosmic gamma-ray burst experiment 09 p1262 N84-18238

HENRARD, J.
Orbital evolution of the Galilean satellites: The conservative model 19 p3120 N84-29830

HENRICH, H. J.
Deep drawing of continuously cast and rolled zinc sheet
[BMFT-FB-T-83-214] 10 p1472 N84-19614

HENRICHS, H. F.
Observations of extensive variability in the ultraviolet spectrum of xi Per 24 p3977 N84-35190

HENRICKS, R. J.
Materials for Advanced Turbine Engines (MATE): Project 3: Design, fabrication and evaluation of an oxide dispersion strengthened sheet alloy combustor liner
[NASA-CR-174691] 22 p3554 N84-32504

HENRIKSEN, M. J.
An X-ray survey of variable radio bright quasars
[NASA-TM-86094] 14 p2250 N84-24512

HENRIKSEN, S.
HF omnidirectional spectral CW auroral radar (HF-OSCAR) at very high latitude. Part 1: Technique
[DMI-GEOPHYS-PAPERS-R-67]
19 p3010 N84-29079

HENRY, C. L.
Procedures for the transfer of data files between the BRL CYBER computer system and the IBD Hewlett-Packard minicomputer network
[AD-A132063] 03 p0418 N84-12731

HENRY, C. R.
Quality at the crossroads
[AD-P002818] 13 p2060 N84-23363

HENRY, D. H.
Multiplication models in projection pursuit
[DE84-001142] 05 p0741 N84-14866

HENRY, D. J.
Development of the Earth's early crust: Implications from the Beartooth Mountains 11 p1679 N84-20959
Metamorphic fluids and uplift-erosion history of a portion of the Kapuskasing structural zone, Ontario, as deduced from fluid inclusions 11 p1680 N84-20962

HENRY, L. M.
Measurements of direct path and folded path optical scintillation using a corner cube reflector
[AD-A138485] 12 p1908 N84-22429

HENRY, M. W.
STS-9 BET products
[NASA-CR-172314] 11 p1622 N84-20616
Final STS-11 (41-B) best estimate trajectory products: Development and results from the first Cape landing
[NASA-CR-172349] 18 p2802 N84-27786

HENRY, R.
Expanded ignition effectiveness tests of selected igniter materials with Navy propellants
13 p1949 N84-22671
Ignitibility studies of LOVA propellants
13 p1950 N84-22678

HENRY, R. C.
The Crab Nebula: A theoretical and observational study 04 p0617 N84-14074

HENRY, R. F.
The turbulent transfer of ions to the Earth's surface
05 p0706 N84-14630

HENRY, W. M.
Literature review on occurence and methodology for determination of nickel, chromium, manganese and arsenic species in air
[PB84-172105] 16 p2463 N84-25788

HENSHAW, W. F.
Self-propagating high-temperature synthesis of ceramics in vacuum
[AD-A142506] 20 p3162 N84-30079

HENSLEE, S. P.
A survey of gas-side fouling measuring devices
[NASA-CR-173734] 18 p2836 N84-28003
Joining silicon nitride based ceramics: A technical assessment
[DE84-011356] 20 p3164 N84-30092

HENSLEY, D. C.
Parallel processor for fast event analysis
[DE83-014050] 02 p0271 N84-11770

HENSLEY, W. K.
Double beta decay: Recent developments and projections
[DE84-000476] 04 p0598 N84-13944

HENTSCHKE, E. U.
Holographic test procedures for the evaluation of complicated material composites (tires)
[BMFT-FB-T-84-096] 21 p3407 N84-31612

HENZE, W., JR.
Research in solar physics: Some techniques for analyzing data from the ultraviolet spectrometer and polarimeter
[NASA-CR-171035] 15 p2428 N84-25584

HEPEL, M.
Impedance relaxation spectrum analysis of oxidized silver electrodes
[AD-A138380] 12 p1793 N84-21693
Study of the initial stages of anodic oxidation of polycrystalline silver in KOH solutions
[AD-A138381] 12 p1793 N84-21694

HEPLER, P.
Calcium and mitosis 02 p0262 N84-11722

HEPLER, W. A.
Vapor-liquid phase separator studies
[NASA-CR-166545] 08 p1156 N84-17527

HEPPE, S. B.
Tracking and data acquisition system for the 1990's. Volume 8: TDAS frequency planning
[NASA-CR-175200] 10 p1434 N84-19376

HEPPLER, G. R.
Computation of influence of defects on static and fatigue strength of composites 01 p0034 N84-10217

HEPPNER, D. B.
Advanced air revitalization system testing
[NASA-CR-166540] 08 p1205 N84-17855
Electrochemical carbon dioxide concentrator subsystem development
[NASA-CR-166538] 08 p1205 N84-17857

HEPPNER, R. A.
Plasma discharge elemental detector for a mass spectrometer
[DE84-011078] 21 p3406 N84-31604

HERAKOVICH, C. T.
CLFE2D: A generalized plane strain finite element program laminated composites subject to mechanical and hygrothermal loading
[NASA-CR-173507] 14 p2157 N84-23921
Temperature dependence of elastic and strength properties of T300/5208 graphite-epoxy
[NASA-CR-173616] 16 p2460 N84-25767
Space radiation effects on graphite-epoxy composite materials
[NASA-TM-85478] 16 p2460 N84-25769
Composite laminates with negative through-the-thickness Poisson's ratios
[NASA-CR-173681] 18 p2809 N84-27830
Free edge strain concentrations in real composite laminates: Experimental-theoretical correlation
[NASA-CR-173818] 19 p2986 N84-28919
Prediction of crack extension direction in unidirectional composites
[VPI-E-84-27] 24 p3878 N84-34572

HERB, E. O.
Laser cutting: An advanced technology in sheet metal working 09 p1293 N84-18452

HERBERT, H. E.
Production version of the extended NASA-Langley vortex lattice FORTRAN computer program. Volume 2: Source code
[NASA-TM-83304] 19 p3073 N84-29500

HERBERT, J. J.
Technology needs of advanced Earth observation spacecraft
[NASA-CR-3698] 08 p1114 N84-17248

HERBERT, T.
Nonlinear effects in hydrodynamic stability
23 p3748 N84-33762
Secondary instability of shear flows
23 p3748 N84-33763

HERBISON, G. J.
Research opportunities in muscle atrophy
[NASA-CR-175422] 10 p1546 N84-20135
Research opportunities in muscle atrophy
[NASA-CR-3796] 17 p2743 N84-27416

HERBST, M. J.
Analysis of stability and symmetry implications for ICF
[DE84-000640] 04 p0540 N84-13556

Variation of laser absorption with plasma scalelength in long-scalelength plasmas
[DE84-002743] 06 p0921 N84-15991
X-ray production in long-scale length laser-plasma interaction experiments
[DE84-002472] 07 p1076 N84-16997
HERCEG, J. E.
Integral manifolding structure for fuel cell core having parallel gas flow
[DE84-014664] 23 p3744 N84-33731
HERCHENROEDER, P. J.
Anomalous propegation and radar coverage through inhomogeneous atmospheres 15 p2326 N84-24967
HERCHER, M.
Rapid identification of micro-organisms
[AD-A132831] 06 p0886 N84-15759
HERCULES, D. M.
Studies of supported metal catalysts
[DE84-004210] 09 p1285 N84-18389
HERCZYNSKI, R.
The shock wave structure in one-component gas and in binary gas mixture
[ISSN-0208-5658] 03 p0370 N84-12407
HERD, G. R.
Aircrew Automated Escape Systems (AAES) In-service Usage Data Analyses, volume 1
[AD-A134833] 08 p1100 N84-17154
Aircrew Automated Escape Systems (AAES) In-service Usage Data Analyses, volume 2
[AD-A134834] 08 p1100 N84-17155
HERDMAN, T. L.
An example of boundary layer in delay equations
[AD-A129144] 01 p0129 N84-10842
HERELD, M.
A search for gravitational radiation from PSR 1937 + 214 08 p1185 N84-17717
HERGENROTHER, P. M.
Phenoxy resins containing pendent ethynyl groups
[NASA-TM-85747] 07 p0978 N84-16338
Ethynyl and substituted ethynyl-terminated polysulfones
[NASA-CASE-LAR-12931-1] 13 p1962 N84-22747
Phenoxy resins containing pendent ethynyl groups and cured resins therefrom
[NASA-CASE-LAR-13262-1] 15 p2300 N84-24805
Sulfone-ester polymers containing pendent ethynyl groups
[NASA-CASE-LAR-13316-1] 19 p2996 N84-28987
Ethynyl-terminated ester oligomers and polymers therefrom
[NASA-CASE-LAR-13118-1] 19 p2997 N84-28988
HERGET, C. J.
Linear systems analysis program user's manual, version 2.2 (VAX/VMS)
[DE84-012230] 20 p3275 N84-30789
HERING, W. S.
Analytic techniques for estimating visible image transmission properties of the atmosphere
[AD-A142524] 20 p3300 N84-30954
HERKENHOFF, K. E.
Impact of Upheaval Dome, Utah
13 p2078 N84-23465
HERLEVICH, A.
Analysis and modeling of photosynthetic bacterial hydrogen production plants
[DE84-000003] 04 p0570 N84-13758
HERLICH, H.
Productivity measurement in software engineering
[PB83-227330] 01 p0160 N84-11054
HERLONG, H. E.
Water resources data for South Carolina, water year 1982
[PB84-162577] 14 p2170 N84-24003
HERMAN, B. M.
Recovery of spectral optical depth and zero-airmass solar spectral irradiance under conditions of temporally varying optical depth 23 p3775 N84-33930
HERMAN, C.
Analysis of subpixel registration accuracy
03 p0394 N84-12570
HERMAN, G. F.
Cloud and ice in the planetary scale circulation and in climate
[NASA-CR-173992] 24 p3990 N84-35244
HERMAN, H.
Tenth International Thermal Spraying Conference
[AD-A133074] 05 p0663 N84-14359
Thermally-sprayed active metal coatings for corrosion protection in marine environments
[AD-A140783] 17 p2624 N84-26795
HERMAN, I. P.
Wafer-scale laser pantography. Part 6: Direct-write interconnection of VLSI gate arrays
[DE84-012676] 22 p3601 N84-32815
HERMAN, S. C.
Engineering fabrics in transportation construction
[PB84-144856] 12 p1804 N84-21763
HERMAN, T.
A distributed procedure to detect and/or deadlock
[AD-A135459] 08 p1212 N84-17904
HERMANN, A.
Progress in polycrystalline thin-film solar cells
[DE83-012131] 06 p0875 N84-15691
HERMANN, B.
Applications of the GPS (Global Positioning System) Geodetic Receiver System
[AD-A140567] 17 p2605 N84-26688
HERMANN, W.
User's guide to Sandia TEX
[DE83-016763] 04 p0582 N84-13840
HERMANNSFELDT, W. B.
Computer simulation of the Lasertron
[DE84-012242] 20 p3194 N84-30287
HERMANSSON, L.
Swedish activities in new ceramic materials, processes 14 p2119 N84-23696
HERMEKING, H.
High temperature electrolysis of water vapor: HOT ELLY, phase 2A
[BMFT-FB-T-84-032] 16 p2463 N84-25784
HERNANDEZ, J. A.
Adaptive machines: Examples of architecture, modeling and evaluation
[ENST-E-83009] 09 p1366 N84-18916
Engineering programming at the Ecole Nationale Superieure des Telecommunications (ENST): Particularities and tendencies
[ENST-C-83004] 15 p2390 N84-25338
HERNANDEZ, M.
Theories of kinematic analysis and synthesis of spatial mechanisms containing lower and higher pairs
[AD-A134519] 07 p1016 N84-16594
HERNANDEZ, P., JR.
Forestry inventory based on multistage sampling with probability proportional to size
[INPE-2869-RPE/441] 23 p3763 N84-33855
HERNANDEZFILHO, P.
Forest inventory using multistage sampling with probability proportional to size
[E84-10144] 16 p2507 N84-26092
HERNITER, B.
Optical, radio and computer simulation studies of the Brazil ionospheric modification experiment of 8 September 1982
[AD-A135143] 08 p1186 N84-17731
HEROLD, A.
Low temperature structure and properties of graphite lamellar compounds
[AD-A140875] 17 p2768 N84-27579
HEROLD, H.
Prospects of the plasma focus for magnetic fusion
10 p1585 N84-20386
HERRERA, E.
Accuracy in folding mirror mechanism displacement law 09 p1295 N84-18464
HERRERA, J.
Magnetic field measurements of superconducting magnets for the colliding beam accelerator
[DE83-017351] 04 p0603 N84-13982
HERREROS, C. G.
Application of the liquid column chromatography to the study of lubricating oils and esters separation
18 p2817 N84-27889
Application of liquid column chromotography to the study of lubricant oils and ester separation
18 p2819 N84-27903
HERRICK, B. M.
A proportional piezoelectric electropneumatic servovalve design
[AD-A140224] 16 p2499 N84-26031
HERRING, C. E., JR.
Automated Construction Management System (ACMS). Volume 1: User's guide
[AD-A143031] 21 p3465 N84-31971
Automated Construction Management System (ACMS). Volume 2: Program documentation
[AD-A143032] 21 p3466 N84-31972
HERRING, J. W.
A preliminary investigation on the application of robotics to missile fire control
[AD-A140369] 16 p2456 N84-25751
HERRING, R. W.
Radar signal processing architectures and algorithms in digital VLSI (Very Large Scale Integration)
[PB84-140110] 11 p1645 N84-20756
HERRMANN, F. T.
Coil planet centrifugation as a means for small particle separation
[NASA-TM-82561] 04 p0570 N84-13756
HERRMANN, H.
Results of a slant range visibility field test in Munich-Reim
[DFVLR-MITT-83-09] 06 p1102 N84-17169
Airborne lidar for oceanography and hydrology (FLOH)
[ESA-TT-799] 13 p1996 N84-22955
HERRMANN, L. R.
User's manual for SAC-3: A 3-dimensional nonlinear, time dependent soil analysis code using the bounding surface plasticity model
[AD-A137782] 18 p2853 N84-28114
HERRMANN, M.
All solid state CCD image sensor
[BMFT-FB-T-84-046] 19 p3113 N84-29778
HERRMANN, R. B.
Effective use of earthquake data
[AD-A134077] 06 p0878 N84-15712
HERRMANN, W. C.
Generalized Exponential Markov (GEM) updating procedure for AFOS (Automation of Field Operations and Services)
[PB84-154822] 14 p2180 N84-24060
HERRMANNSFELDT, W. B.
New heavy-ion-fusion accelerator research program
[DE83-014898] 04 p0609 N84-14016
HERRO, M. A.
Cut-off rate calculations for the outer channel in a concatenated cooling system
[NASA-CR-173612] 16 p2541 N84-26312
HERRON, E. L.
Symbology verification study
[AD-A131328] 02 p0177 N84-11162
Computer generated pictorial stores management displays for fighter aircraft
[AD-A131412] 02 p0179 N84-11168
HERRSCHER, G.
Development of a redundant computer system for flight augmentation
[BMFT-FB-W-83-027] 10 p1431 N84-19356
HERRUP, D.
The problem of tracking charged particles in the cores of high energy jets in a high rate environment
06 p0911 N84-15916
HERSCHBACK, D. R.
A theoretical study of the energetics and dynamics of high energy inelastic collision processes
[AD-A142799] 21 p3497 N84-32163
HERSCHY, R. W.
Group Agromet Monitoring Project (GAMP), phase 1
[ESA-CR(P)-1769] 07 p1023 N84-16637
HERSENER, J.
Monolithic integrated analog switching arrays
[BMFT-FB-T-83-146] 02 p0216 N84-11418
HERSH, A. S.
Experimental investigation of rocket motor flow-turning acoustic losses
[AD-A144168] 24 p3866 N84-34504
HERSHBERGER, M. L.
Evaluation of army remotely piloted vehicle mission payload operator performance in simulated artillery missions
[AD-A137602] 11 p1703 N84-21103
HERSHCOVITCH, A. I.
Generation of intense polarized beams by selective neutralization of negative ions
[DE84-007377] 15 p2405 N84-25437
HERSHFELD, D.
Statistical correlation of structural mode shapes from test measurements and NASTRAN analytical values
[NASA-TM-86044] 16 p2501 N84-26054
HERSHMAN, R. L.
Decision and display analysis in a simple surveillance problem
[AD-P002888] 13 p1979 N84-22847
HERSOM, S. E.
Low thrust orbit optimization for interplanetary missions, volume 1
[ESA-CR(P)-1904-VOL-1] 23 p3697 N84-33430
Low thrust orbit optimization for interplanetary missions, volume 2
[ESA-CR(P)-1904-VOL-2] 23 p3697 N84-33431
HERSON, J. A.
Machine intelligence research applied to industrial automation
[PB84-123348] 10 p1473 N84-19618
HERSTEIN, P. D.
The effect of noisy reflection data on an inverse method for determining the structure of a layered ocean bottom
[AD-A131976] 03 p0430 N84-12820
HERTER, T.
Abundances in galactic H2 regions, 3: G25.4-0.2, G45.5+0.06, M8, S159 and DR22
[NASA-TM-85962] 17 p2774 N84-27616
HERTZ, E.
A type of correlated data in operational testing
[AD-P003848] 24 p3939 N84-34935

HERTZ, P. L.
Surveys of globular cluster and galactic plane X-ray sources
04 p0622 N84-14102

HERTZBERG, A.
Basic and applied research related to the technology of space energy conversion systems, 1982 - 1983
[NASA-CR-173554] 15 p2361 N84-25168

HERTZBERG, R. W.
A study of fatigue crack propagation in powder metallurgy hot isostatically pressed nickel-base alloy
[AD-A139290] 14 p2127 N84-23754

HERTZLER, E. K.
Flight test derived heating math models for critical locations on the orbiter during reentry
01 p0023 N84-10147

HERVEY, S. P.
A study of antarctic remote site automatic weather station data (1980-81) from the ross ice shelf area
[AD-A143738] 23 p3802 N84-34105

HERZAU, J. S.
Teardown analysis of a ten cell bipolar nickel-hydrogen battery
[NASA-TM-83618] 13 p2008 N84-23026

HERZBERGER, K.
Results of permanent Doppler measurements at the satellite observation station Wettzell
08 p1174 N84-17646

HERZEGH, P. H.
Precipitation development in midlatitude cyclones: A study of cloud structures and processes
04 p0566 N84-13728

HERZER, R.
Contribution to the question bit error performance of CCITT study group 18
[FI-44-TBR-92] 12 p1810 N84-21799

HERZIGER, G.
Radiation and particle emission from a 1.6 kJ plasma focus
10 p1581 N84-20362
A plasma focus with improved reproducibility
10 p1583 N84-20375
Dynamics of microstructures 10 p1583 N84-20376
Observation of nonlinear phenomena
10 p1584 N84-20385

HERZOG, A. D.
Two-dimensional photometry of active regions
17 p2778 N84-27640

HESLEGRAVE, R. J.
The effects of sleep loss and sustained mental work: Implications for command and control performance
11 p1697 N84-21069

HESLIN, T.
Engineering and design properties of thallium-doped sodium iodide and selected properties of sodium-doped cesium iodide
[NASA-RP-1131] 23 p3726 N84-33613

HESLINGA, G.
Human reliability analysis using event trees
[S/T-REPT-VOL-1-NO-3] 20 p3265 N84-30718

HESS, C. F.
Development and implementation of advanced diagnostic techniques 11 p1608 N84-20528

HESS, G. M.
Inversion of experimental optical data
[AD-A138979] 13 p2043 N84-23257

HESS, H. D.
Intelligent instruments for process measurement techniques (monitoring of sensors)
[BMFT-FB-T-84-078] 21 p3407 N84-31611

HESS, J. H.
Water resources data for Minnesota, water year 1982. Volume 1: Great Lakes and Souris-Red-Rainy River Basins
[PB84-163047] 14 p2171 N84-24007
Water resources data for Minnesota water year, 1982. Volume 2: Upper Mississippi and Missouri River Basins
[PB84-163054] 14 p2171 N84-24008

HESS, J. R.
Study of aerodynamic technology for single-cruise-engine V/STOL fighter/attack aircraft
[NASA-CR-166269] 19 p2961 N84-28767

HESS, K.
Workshop on the Physics and Modeling of Submicron Structures
[AD-A134526] 07 p1081 N84-17026
InGaPAs by metalorganic chemical vapor deposition
[AD-A135281] 08 p1234 N84-18069
High field transport of free carriers at the Si-SiO2 interface
[AD-A135338] 08 p1235 N84-18071

HESS, L. D.
Kinetics of solid-phase crystallization in ion-implanted and deposited amorphous-silicon films
[DE83-015499] 02 p0300 N84-11967

HESS, P. E.
Rush field experiments: Growth and initial decay of the mixed layer over an autumn landscape
[DE84-001671] 07 p1040 N84-16743

HESS, R. W.
Portable dynamic pressure generator for static and dynamic calibration of in situ pressure transducers
[NASA-TM-85687] 01 p0083 N84-10538

HESSE, J.
Fiber optic sensors
[NASA-TM-77404] 14 p2224 N84-24346

HESSELINK, L.
Optical processing 16 p2490 N84-25975

HESTAND, R. E.
Thought control from parenting, to behavior mod, to cults, to brainwashing
[AD-P003240] 18 p2903 N84-28407

HESTER, R. D.
Improved polymers for enhanced-oil-recovery synthesis and rheology
[DE83-017371] 04 p0507 N84-13324

HESTER, R. E.
Beam dynamics in the Advanced Test Accelerator (ATA)
[DE84-001421] 04 p0598 N84-13947

HETHARSKI, R. B.
On some dynamic problems in layered elastic-viscoelastic beams 15 p2309 N84-24856

HETSCH, J.
Recording and reproduction of microwave holograms using a scanning procedure and their subsequent optical processing
[NASA-TM-77349] 06 p0846 N84-15519

HETTINGER, E. C.
Policy implications of information technology
[PB84-183219] 20 p3316 N84-31060

HETTMANSPERGER, T. P.
Rank-based inference for linear models: Asymmetric errors
[AD-A138404] 12 p1894 N84-22340

HETZEL, H.
Hydrolysis of plastic wastes with the aim of recovering and reprocessing the starting components (recycling)
[BMFT-FB-T-83-199] 08 p1126 N84-17322

HETZNER, W. A.
The process of technological innovation: Reviewing the literature 16 p2566 N84-26466

HEUBERGER, A.
Fabrication of structures on semiconductors by X-rays: Comparison and optimization of mask technologies
[BMFT-FB-T-83-071] 02 p0300 N84-11968

HEUBUSCH, H. P.
The compatibility of MON-3 and 301 cryoformed stainless steel 20 p3138 N84-29924

HEUER, R. L.
Effect of space environment on space-based radar phased-array antenna (A0133) 15 p2271 N84-24638

HEULER, P.
Comparison of fatigue life prediction based on local strains and nominal stresses respectively
[LBF-FB-169(183)] 10 p1518 N84-19937

HEUMUELLER, P.
Development of a 30 GHz/10 W traveling wave tube
[BMFT-FB-W-84-004] 19 p3019 N84-29142

HEVENOR, R. A.
Application of a feature selection technique to samples of high resolution synthetic aperture radar imagery
[AD-A135006] 08 p1143 N84-17438

HEWETT, D. W.
Recent results in the Los Alamos compact torus program
[DE83-014147] 03 p0446 N84-12930

HEWIG, G. H.
Technical use of solar energy. Part 1. Thin films solar cells
[BMFT-FB-T-83-298-PT-1] 15 p2362 N84-25172

HEWINS, R. H.
Metal-silicate relationships in differentiated meteorites
[NASA-CR-173929] 23 p3843 N84-34384

HEWITT, A.
A system to measure LOS atmospheric transmittance at 19 GHz 15 p2324 N84-24951

HEWITT, A. V.
Microdensitometer electronics modification
18 p2840 N84-28030

HEWITT, C.
Analyzing the roles of descriptions and actions in open systems
[AD-A133614] 06 p0905 N84-15878
Design issues in parallel architectures for artificial intelligence
[AD-A142482] 20 p3278 N84-30809

HEWITT, D. R.
Thermal control system
[NASA-CASE-GSC-12771-1] 05 p0678 N84-14461

HEWITT, F. G.
Magneto-optic garnet and liquid crystal optical switches 12 p1905 N84-22410

HEWITT, R. L.
Implementation of Nisitani's body force method for the solution of notch problems
[AD-A137690] 11 p1668 N84-20881
Comparison of the stress concentration factor of a hole near a circular edge notch with an engineering estimate
[AD-A137691] 11 p1668 N84-20882

HEXTER, R. M.
Raman spectroscopic study of acetylene on supported rhodium catalysts
[AD-A144099] 23 p3714 N84-33544

HEYDAYAT, A. S.
A collection of A-optimal designs for control-test treatment comparisons, part 1
[AD-A129322] 01 p0132 N84-10866

HEYDORN, R. P.
Estimating location parameters in a mixture model
03 p0392 N84-12559
Fundamental remote science research program. Part 2: Status report of the mathematical pattern recognition and image analysis project
[NASA-TM-58260] 21 p3430 N84-31762

HEYDT, H.
Interactive digital image processing for terrain data extraction, phase 4
[AD-A140197] 16 p2510 N84-26107

HEYL, W. J.
A study of waves on a curved space-time
08 p1237 N84-18083

HEYMAN, J. S.
Improved impact tolerant material
[NASA-CASE-LAR-12887-1] 11 p1627 N84-20649
Method for thermal monitoring subcutaneous tissue
[NASA-CASE-LAR-13028-1] 11 p1694 N84-21053

HEYMANN, M.
A formulation and analysis of combat games
[NASA-TM-85927] 13 p1935 N84-22585

HEYMSFIELD, A. J.
Measurements inside Oklahoma thunderstorms
[PB84-206911] 21 p3450 N84-31891

HEYNACHER, E.
Development of production technologies for the series production of optical components with aspheric surfaces
[BMFT-FB-T-84-115] 23 p3727 N84-33620

HEYNICK, L. N.
USAFSAM (USAF School of Aerospace Medicine) review and analysis of radiofrequency radiation bioeffects literature
[AD-A140023] 15 p2379 N84-25280
USAFSAM (USAF School of Aerospace Medicine) review and analysis of radiofrequency radiation bioeffects literature
[AD-A142961] 21 p3453 N84-31912

HEYWOOD, J. B.
Computer simulation of the heavy-duty turbo-compounded diesel cycle for studies of engine efficiency and performance
[NASA-CR-174755] 22 p3676 N84-33306

HIBBARD, T. N.
Problem-oriented specification of concurrent algorithms 09 p1400 N84-19145

HIBLER, W. D., III
MIZEX: A program for mesoscale air-ice-ocean interaction experiments in Arctic marginal ice zones. 2: A science plan for a summer marginal ice zone experiment in the Fram Strait/Greenland sea: 1984
[AD-A134872] 08 p1187 N84-17737
Investigation of ice dynamics in the marginal zone
[AD-A138558] 15 p2374 N84-25243
Investigation of ice dynamics in the marginal ice zone
[AD-A138558] 17 p2737 N84-27387

HIBNER, D. V.
An approach for multilayer PCB (Printed circuit boards) design with automatic routing
[AD-A138072] 12 p1880 N84-22255

HICHO, G.
Engineering and design properties of thallium-doped sodium iodide and selected properties of sodium-doped cesium iodide
[NASA-RP-1131] 23 p3726 N84-33613

HICHO, G. E.
Standard reference material containing 2.5 percent austenite (SRM 488)
[PB84-143296] 12 p1799 N84-21735

HICKEY, J. R.
Passive exposure of Earth radiation budget experiment components (A0147) 15 p2278 N84-24684
Status of solar measurements and data reduction for ERB-Nimbus 7 17 p2778 N84-27637

HICKEY, J. S.
Analysis of severe storm data
[NASA-CR-170947] 06 p0881 N84-15732

HILL, C. T.
Origin of the ultra-high-energy cosmic rays
[DE83-013760] 02 p0309 N84-12025
Evolution of the ultra high energy cosmic ray spectron by transport equation
[DE83-013711] 03 p0476 N84-13132
Possible cosmological origin of the ultra high energy cosmic rays
[DE84-013083] 22 p3681 N84-33334
HILL, D. W.
Biological effects of millimeter-wave irradiation: Living bacterial organisms
[AD-A142474] 20 p3256 N84-30670
HILL, F. E.
Development and fabrication of an augmented power transistor
[NASA-CR-168262] 02 p0212 N84-11388
HILL, H.
Development of a prototype cathode sputtering plant
[BMFT-FB-T-83-251] 10 p1472 N84-19617
HILL, H. L.
Proceedings of the Conference on Cooperative Climate Services
[PB84-152081] 12 p1863 N84-22137
HILL, J. A. F.
High altitude maneuver control tests in the NSWC (Naval Surface Weapons Center) hypervelocity wind tunnel
[AD-A136105] 09 p1253 N84-18178
HILL, J. K.
Positive-feedback photometric drift in the PDS
18 p2840 N84-28025
HILL, J. L.
Conceptual design of a robotic loader system for remote missile launchers
[AD-A141270] 18 p2802 N84-27781
HILL, J. M.
Calculation of the flow over a stalled airfoil
13 p1925 N84-22531
HILL, J. P.
Method for defining the distribution of triaxial stress states in underground structures
[DE84-010591] 20 p3202 N84-30342
HILL, J. R.
NOVANET: Communications network for a control system
[DE83-013862] 04 p0523 N84-13436
Detailed introduction and reference manual for: The network-shared-memory distributed database system
[DE83-017547] 04 p0585 N84-13865
Non-linear Fabry-Perot transmission in A CdHgTe etalon 14 p2239 N84-24437
HILL, J. W.
Afternoon effect studies, part 1
[AD-A130926] 01 p0140 N84-10918
Machine intelligence research applied to industrial automation
[PB84-123348] 10 p1473 N84-19618
HILL, N. C.
Preliminary studies of the total cation exchange capacity of sediments from two North Atlantic study sites
[IOS-158] 19 p3062 N84-29430
HILL, R. G.
Aircraft seat fire blocking layers. Effectiveness and benefits under various scenarios
[AD-A140796] 17 p2603 N84-26681
HILL, R. W.
Applications of the GPS (Global Positioning System) Geodetic Receiver System
[AD-A140567] 17 p2605 N84-26688
HILL, T. A.
The toxicity of petroleum and shale JP5
[AD-A142670] 20 p3260 N84-30690
HILLAND, J. E.
Processing system 12 p1835 N84-21958
HILLARD, M. E.
Molecular velocimetry using stimulated Raman spectroscopy
[NASA-TM-85808] 15 p2405 N84-25433
HILLBERRY, B. M.
The effect of thickness on fatigue crack propagation in 7475-T731 aluminum alloy sheet
[NASA-CR-172367] 19 p3035 N84-29251
HILLBRECHT, R.
Generation of marker lines by means of marker loads
17 p2680 N84-27074
HILLE, A.
Polyester fiber reinforcement of thermosetting molding compounds
[BMFT-FB-T-83-155] 05 p0661 N84-14342
HILLEKE, R. O.
Momentum distributions in hcp, bcc, and liquid He-4
[DE84-014679] 23 p3831 N84-34300
HILLENBRAND, B.
Superconducting resonators
[BMFT-FB-T-84-119] 23 p3831 N84-34303
HILLER, B.
Velocity visualization in gaseous flows
11 p1610 N84-20543
HILLER, K.
The information network for a real-time controlled data acquisition of the Modular Optoelectronic Multispectral Scanner (MOMS) 23 p3765 N84-33863
Modular Optoelectronic Multispectral Scanner (MOMS) data of Bolivia: Comparison with LANDSAT Multispectral Scanner (MSS) and geological interpretation
23 p3765 N84-33865
HILLER, W. J.
Acoustic damping by microcondensate
07 p1070 N84-16952
HILLERMEIER, K.
Polyester fiber reinforcement of thermosetting molding compounds
[BMFT-FB-T-83-155] 05 p0661 N84-14342
HILLGER, D. W.
Mesoscale moisture fields retrieved from satellite infrared radiances in nocturnal inversion cases
05 p0705 N84-14629
HILLGER, W.
Recognizing defects in carbon-fiber reinforced plastics
[NASA-TM-76947] 06 p0786 N84-15143
HILLIARD, R. F. I.
Preliminary program manager's guide to Ada
[AD-A140347] 16 p2565 N84-26457
HILLIS, D. L.
Investigation of thermal stability of fluorinol-85 and 2-methylpyridine-water as Rankine cycle power system working fluids
[DE84-006420] 22 p3562 N84-32559
HILLJE, E. R.
Ascent air data system results from the space shuttle flight test program 01 p0020 N84-10125
HILLMAN, D.
Double arch mirror study. Part 1: Preliminary engineering report
[NASA-CR-166589-PT-1] 21 p3412 N84-31634
Double arch mirror study. Part 3: Fabrication and test report
[NASA-CR-166589-PT-3] 21 p3412 N84-31636
Double arch mirror study
[NASA-CR-166589] 21 p3412 N84-31637
HILLMAN, D. E.
Multi-detector gel permeation chromatography and its application to the analysis of industrial samples
[MQAD-808] 03 p0351 N84-12283
HILLMAN, J. J.
Thermal bifurcation in the upper solar photosphere inferred from heterodyne spectroscopy of OH rotational lines
[NASA-TM-86128] 17 p2781 N84-27654
HILLMAN, L. W.
Intrinsic instabilities in homogeneously broadened lasers 14 p2235 N84-24411
HILLS, C. D.
Evaluation of microstrip radiators as feeds for reflector antenna
[ERA-83-0056] 23 p3732 N84-33655
HILLS, R. G.
The transient response of circular foil heat-flux gages
[DE83-017785] 04 p0538 N84-13541
HILSENRATH, J.
Utility programs for generating the Hershey character fonts on microcomputers and laboratory plotters
[PB83-220467] 01 p0125 N84-10813
HILSUM, M.
Stability of C* algebras of a foliated manifold
14 p2211 N84-24273
HILT, D. E.
A corporate approach to an embedded software development and support standard
[AD-P003589] 21 p3340 N84-31194
HILTENBRAND, C.
Non-invasive methods of cardiovascular exploration in aerospace medicine
[AGARD-AG-277(E)] 11 p1699 N84-21082
Exploration of arterial function using Doppler flow determination. Application to aeronautical and space medicine 11 p1700 N84-21091
HILTON, A. R.
Large plate CdTe synthesis by sealed vessel transport
[AD-A130947] 01 p0153 N84-11005
Large plate CdTe synthesis by sealed vessel transport
[AD-A134588] 07 p1081 N84-17027
HILTON, P. W.
Application of FASTRAK by Skandinavisk Autodigitaliserings AB (SADAB) cartographic service
20 p3226 N84-30498
HILZINGER, R.
Amorphous metals with high magnetic permeability
[BMFT-FB-T-84-056] 19 p2996 N84-28983
HIMES, S. J.
Report of tests of a compressor configuration of DCA blading
[AD-A133350] 07 p1002 N84-16501
HIMMELBERG, G. R.
Crystallization of the Duffek intrusion, Antarctica
14 p2161 N84-23944
HIND, G.
Kinetic and spectroscopic studies of cytochrome b-563 in isolated cytochrome b/f complex and in thylakoid membranes
[DE83-017982] 04 p0571 N84-13760
HINDMAN, E. E.
Model cloud relationships
[AD-A142690] 21 p3447 N84-31871
HINDMAN, J. C.
Energy transfer in real and artificial photosynthetic systems
[DE84-007278] 15 p2378 N84-25275
HINDMAN, R. G.
Modification of the eta-invariant code for application of a modular grid network
[AD-A135817] 16 p2547 N84-26347
HINDMARSH, A. C.
Matrix-free methods in the solution of stiff systems of ODE's
[DE84-003361] 08 p1221 N84-17974
HINDS, B. G.
The certification of polycarbonate transparencies: An appeal for reasonable requirements
[AD-P003225] 17 p2596 N84-26638
HINDS, E. A.
Generation of intense polarized beams by selective neutralization of negative ions
[DE84-007377] 15 p2405 N84-25437
HINDS, W. T.
Detecting long-term ecological effects in forests and food chains
[DE83-003489] 03 p0406 N84-12655
Life histories and monitoring strategies: Some lessons from field experience
[DE83-016164] 04 p0571 N84-13763
HINDSON, W. S.
A flight-test and simulation evaluation of the longitudinal final approach and landing performance of an automatic system for a light wing loading STOL aircraft equipped with wing spoilers
[NASA-TM-85873] 22 p3537 N84-32393
HINE, A. A.
Volcanism and rift formation in Beta Regio, Venus: New radar results 11 p1754 N84-21450
HINES, M.
Chemical reaction dynamics at surfaces
22 p3681 N84-33340
HINES, W. A.
Density of occupied d states in transition metal-metalloid metallic glasses
[DE84-001206] 04 p0503 N84-13298
EXAFS study of Metglas 2605 CO
[DE84-001203] 04 p0503 N84-13299
HINGST, U. G.
Thermal design features of Rosat X-ray telescope
10 p1445 N84-19443
HINKELMANN, K.
The mechanism of meteorological noise
[PB83-241489] 02 p0257 N84-11681
HINKS, D. G.
Neutron-scattering studies of magnetic superconductors
[DE84-000393] 04 p0614 N84-14054
HINMAN, A. S.
Simulation of edge effects in electroanalytical experiments by orthogonal collocation. Part 4: Application to voltammetric experiments
[AD-A136988] 10 p1455 N84-19500
Anodic oxidation of furans in aprotic solvents
[AD-A137081] 10 p1468 N84-19587
Spectroscopic determination of the ac voltammetric response
[AD-A137321] 18 p2833 N84-27983
HINSCH, H.
Laser light scattering at the POSEIDON plasma focus device 10 p1584 N84-20384
HINSENKAMP, M.
Evaluation of the gravity relevance on bone stresses by in vivo measurements 23 p3808 N84-34148
Electromechanical hypothesis of bone demineralization in weightlessness 23 p3808 N84-34149
Animal models of disuse osteoporosis
23 p3809 N84-34153
HINSHELWOOD, D. D.
BERTHA: A versatile transmission line and circuit code
[DE84-002984] 07 p0998 N84-16474

Mesoscale and severe storms (Mass) data management and analysis system 24 p3929 N84-34871

HICKEY, P. J.
An investigation of experimental techniques for obtaining particulate behavior in metallized solid propellant combustion 13 p1947 N84-22659

HICKLING, J.
Corrosion damage with additional mechanical loading 14 p2126 N84-23745

HICKMAN, R. B.
Advanced high-field coil designs: 20 Tesla [DE83-017368] 03 p0368 N84-12397
Analytical studies of advanced high-field designs: 20-Tesla large-bore superconducting magnets [DE83-017591] 04 p0594 N84-13918
Numerical solution to the steady state equation of transfer in azimuthally symmetric geometries [DE84-001781] 06 p0845 N84-15509
Ultra-high-field superconducting magnets [DE84-003913] 08 p1226 N84-18012

HICKOX, C. E.
Finite-element analysis of an epoxy-curing process [DE84-000452] 04 p0507 N84-13323

HICKS, B. B.
Rush field experiments: Growth and initial decay of the mixed layer over an autumn landscape [DE84-001671] 07 p1040 N84-16743

HICKS, H. R.
Inverse plasma equilibria [DE84-000723] 04 p0607 N84-14008
Equilibrium studies for low-aspect-ratio torsatrons [DE84-002264] 06 p0920 N84-15979
ATF-1 torsatron studies [DE84-003314] 09 p1392 N84-19089
Theory of anomalous tearing mode growth and the major Tokamak disruption [DE84-005383] 12 p1911 N84-22448
Nonlinear interaction of tearing modes: A comparison between the Tokamak and the reversed field pinch configurations [DE84-010582] 18 p2934 N84-28606
Reliability of initial-value MHD calculations of Tokamak disruptions [DE84-013600] 22 p3659 N84-33193

HICKS, J. C.
Temperature dependent hysteresis study in polyvinylidene fluoride [AD-A132675] 05 p0659 N84-14331

HICKS, M. A.
The development of advanced specimen testing and analysis techniques applied to fracture mechanics lifing of gas turbine components [PNR-90179] 13 p1933 N84-22575
The cyclic behaviour of a powder Ni-base superalloy [PNR-90182] 13 p1961 N84-22743

HICKS, R. C.
Comparison of arithmetic requirements for the PFA (Prime Factor Algorithm), WFTA (Winograd Fourier Transform Algorithm), SWIFT, MFFT (Mixed radix fast Fourier transform), FFT (Fast Fourier Transform) and DFT (Discrete Fourier Transform) algorithms [AD-A133087] 05 p0738 N84-14847

HICKS, R. M.
A recontoured, upper surface designed to increase the maximum lift coefficient of a modified NACA 65 (0.82) (9.9) airfoil section [NASA-TM-85855] 08 p1099 N84-17144

HIDE, I.
Polycrystalline silicon sheets for solar cells by the improved spinning method 18 p2937 N84-28626

HIDEKUMA, S.
Buildup and sustainment of 10(13) and cm(-3) plasma by ICRF in RFC-XX [IPPJ-653] 10 p1580 N84-20356
Plasma heating, confinement and stabilization experiments in axisymmetric mirror-cusp device [IPPJ-690] 24 p3965 N84-35105

HIEBER, R.
Multi-temporal analysis of LANDSAT imagery for bathymetry [AD-A130648] 01 p0100 N84-10652

HIEBERT, A. L.
Techniques for the analysis of spectral and orbital congestion in space systems [AD-A140841] 17 p2614 N84-26734
Overview: Techniques for the analysis of spectral and orbital congestion in space systems [AD-A143973] 23 p3697 N84-33426

HIEFTJE, G.
Fiber optics temperature and pressure probe [DE84-001785] 04 p0605 N84-13990

HIEFTJE, G. M.
Jet-impact nebulization for sample introduction in inductively coupled plasma spectrometry [AD-A133152] 06 p0920 N84-15982
A detailed consideration of resonance radiation trapping in the argon inductively coupled plasma [AD-A136633] 09 p1391 N84-19085
A comparison of signal-to-noise ratios for near-infrared detectors [AD-A138127] 12 p1907 N84-22426
Mini, micro, and high-efficiency torches for the ICP (Inductively-Coupled Plasma): Toys or tools? [AD-A138144] 12 p1909 N84-22440
A new method for obtaining individual component spectra from those of complex mixtures [AD-A139262] 14 p2122 N84-23719
A detailed consideration of resonance radiation trapping in the argon inductively coupled plasma [AD-A139369] 14 p2222 N84-24334

HIEL, C.
The nonlinear viscoelastic response of resin matrix composite laminates [NASA-CR-3772] 17 p2617 N84-26750

HIEMSTRA, J. D.
Rotary wing aircraft and technical publications of NASA, 1970 - 1982 [NASA-TM-85521] 08 p1239 N84-18102

HIEN, L. K.
Photovoltaic-cell-reseach priorities [DE84-000066] 04 p0559 N84-13683

HIERSAKI, Y.
Compact Claude cycle refrigerator for laboratory use 06 p0819 N84-15338

HIGA, W. H.
Centrifugal-reciprocating compressor [NASA-CASE-NPO-14597-2] 18 p2848 N84-28081

HIGBIE, P. R.
A determination of the charge state of energetic magnetospheric ions by the observation of drift echoes [AD-A143181] 22 p3623 N84-32954

HIGDON, A. A., JR.
Helicopter In-flight Monitoring System second generation (HIMS 2) [AD-A132498] 04 p0483 N84-13179

HIGDON, N. S.
A blackbody-pumped CO2-N2 transfer laser [NASA-TP-2347] 21 p3408 N84-31617

HIGDON, R. L.
Initial-boundary value problems for linear hyperbolic systems [AD-A132644] 05 p0735 N84-14829

HIGGINBOTHAM, K.
Expressions for the exact state transition matrix of a nine-state target model [AD-A132652] 05 p0735 N84-14830

HIGGINS, A. M.
Air Force Academy Aeronautics Digest - Fall/Winter 1982 [AD-A135073] 08 p1099 N84-17145
Crest: Crew escape technologies for the 1990's 20 p3141 N84-29944

HIGGINS, E. A.
Age, altitude, and workload effects on complex performance [AD-A133594] 07 p1047 N84-16793
The objective evaluation of aircrew protective breathing equipment. 5: Mask/goggles combinations for female crewmembers [AD-A134912] 08 p1201 N84-17830

HIGGINS, G. J.
Simultaneous cabin and ambient ozone measurements on two Boeing 747 airplanes. Volume 2: January to October 1978 [NASA-TM-81733] 12 p1917 N84-22488

HIGGINS, R.
Shunt diode designs in Li/CF Shuttle batteries 23 p3737 N84-33681

HIGGINS, R. H.
Galvanic coupling between D6AC steel, 6061-T6 aluminum, Inconel 718 and graphite-epoxy composite material: Corrosion occurrence and prevention [NASA-TP-2236] 04 p0497 N84-13263

HIGHTER, W. H.
A study of thermal properties and the heating process in asphaltic concrete [AD-A141691] 19 p3035 N84-29254

HIGUCHI, N.
Superconducting properties of Nb3Sn multifilamentary wires fabricated by internal tin process [DE83-018189] 06 p0925 N84-16011

HIGUCHI, T.
Image processing algorithms for a multiple-valued array processor [AD-P002359] 14 p2193 N84-24150

HIKAMI, F.
Strength theories of continuous and discontinuous fiber composites 06 p0797 N84-15195
A probabilistic theory for the strength of discontinuous fibre composites 15 p2308 N84-24848

HIKITA, T.
Completeness for uniformly delayed circuits [AD-P002325] 14 p2189 N84-24116

HILAIRE, G.
Modern structure materials: Present situation and evolution perspectives [SNIAS-841-551-103] 21 p3328 N84-31118

HILBERT, K. B.
A mathematical model of the UH-60 helicopter [NASA-TM-85890] 14 p2110 N84-23653
A piloted simulator investigation of decoupling helicopters by using a model following control system [AD-A139976] 15 p2264 N84-24598

HILBERT, R.
Thermal properties of binary aqueous solutions at high temperatures and high pressure [BMFT-FB-T-83-217] 12 p1794 N84-21701

HILBRANDT, E.
Study on damping representation related to spacecraft structural design [EMSB-18/83] 06 p0795 N84-15182

HILD, C.
Agricultural waste water reverse osmosis pretreatment [PB84-153543] 17 p2725 N84-27347

HILDEBRAND, A.
On the moments of an additive function 14 p2210 N84-24265

HILDEBRAND, B. P.
Investigation of the Rayleigh critical angle phenomenon for the characterization of surface properties [AD-A131530] 03 p0360 N84-12340

HILDEBRAND, P. H.
Evaluation of meteorological airborne Doppler radar 17 p2715 N84-27287

HILDEBRAND, R. H.
Far-IR selected star formation regions [NASA-TM-85955] 16 p2574 N84-26521

HILDEBRANDT, G.
Considerations on a permanent inventory and monitoring system for European forests 03 p0395 N84-12582
Remote sensing from space for forestry purposes 08 p1176 N84-17659

HILDNER, E.
Spectral slicing X-ray telescope with variable magnification [NASA-CASE-MFS-25942-1] 07 p1089 N84-17084
Evidence linking coronal mass ejections with interplanetary magnetic clouds [NASA-TM-82564] 08 p1245 N84-18141

HILDRED, G. P.
Optical extinction theorem theory of optical multi-stability bifurcations and turbulence in the Fabry-Perot interferometer 14 p2239 N84-24442
Optical bistability from the Dicke model 14 p2239 N84-24443

HILDRETH, W. W.
Accomplishments of the NASA Johnson Space Center portion of the soil moisture project in fiscal year 1981 [E84-10090] 10 p1521 N84-19961

HILGERT, J.
The invariance of cones and wedges under flows [PREPRINT-796] 12 p1817 N84-21848

HILHORST, M.
The ISPM solar-flare X-ray and cosmic gamma-ray burst experiment 09 p1262 N84-18238

HILKO, B. K.
Investigation of a pulsed electrothermal thruster [NASA-CR-168266] 03 p0343 N84-12227

HILL, A. S.
Tests of a NACA 65(sub 1)-213 airfoil in the NASA Langley 0.3-meter transonic cryogenic tunnel [NASA-TM-85732] 10 p1420 N84-19287
High Reynolds number tests of a Boeing BAC I airfoil in the Langley 0.3-meter transonic cryogenic tunnel [NASA-TM-81922] 18 p2786 N84-27684
Data from tests of a R4 airfoil in the Langley 0.3-meter transonic cryogenic tunnel [NASA-TM-85739] 23 p3690 N84-33385

HILL, C. K.
Atmospheric environment for space shuttle (STS-8) launch [NASA-TM-82560] 05 p0708 N84-14636
Atmospheric environment for Space Shuttle (STS-9) launch [NASA-TM-82572] 14 p2179 N84-24047
Atmospheric environment for Space Shuttle (STS-11) launch [NASA-TM-82580] 15 p2366 N84-25194
Atmospheric environment for space shuttle (STS-13) launch [NASA-TM-82588] 19 p3057 N84-29396

HILL, C. L.
An initial analysis of LANDSAT 4 Thematic Mapper data for the classification of agricultural, forested wetland, and urban land covers [E84-10073] 07 p1020 N84-16620

BERTHA: A versatile transmission line and circuit code
[AD-A135024] 08 p1209 N84-17886

HINSON, D. P.
Radio scintillations observed during atmospheric occultations of Voyager: Internal gravity waves at Titan and magnetic field orientations at Jupiter and Saturn
21 p3525 N84-32331

HINSON, W. F.
Large inflated-antenna system
08 p1112 N84-17234

HINTERMANN, H. E.
Moisture resistant MoS2-based composite lubricant films 09 p1296 N84-18468
Lubrication of mountings subject to contact corrosion
09 p1296 N84-18469

HINTON, B. B.
Enhancement of SEASAT wind-stress measurements using data from GOES
[PB84-111244] 08 p1192 N84-17773

HINTON, D. A.
A simulator evaluation of an automatic terminal approach system 03 p0312 N84-12037
A simulator evaluation of a rate-enhanced instrument landing system display 03 p0313 N84-12042
Conceptual design and simulator implementation of an automatic terminal approach system
[NASA-TM-85667] 07 p0959 N84-16215

HINTON, F. L.
Density variation due to wave heating in Tokamak plasmas
[DE84-009402] 20 p3305 N84-30993

HINZE, W. J.
Seismic properties of the crust and uppermost mantle of North America
[NASA-CR-175134] 06 p0877 N84-15708
Application of Magsat lithospheric modeling in South America. Part 1: Processing and interpretation of magnetic and gravity anomaly data
[E84-10115] 13 p2005 N84-23008
Application of MAGSAT to lithospheric modeling in South America. Part 2: Synthesis of geologic and seismic data for development of integrated crustal models
[E84-10126] 15 p2355 N84-25128
Euro-African MAGSAT anomaly-tectonic observations
15 p2355 N84-25129
Correlation of tectonic provinces of South America and the Caribbean region with MAGSAT anomalies
15 p2355 N84-25130
Satellite elevation magnetic and gravity models of major South American plate tectonic features
15 p2355 N84-25131
Reduced to pole long-wavelength magnetic anomalies of Africa and Europe 15 p2355 N84-25132
Satellite magnetic anomalies of Africa and Europe
15 p2356 N84-25133
Do satellite magnetic anomaly data accurately portray the crustal component? 15 p2356 N84-25134
Long-wavelength magnetic and gravity anomaly correlations of Africa and Europe
15 p2356 N84-25135
US aeromagnetic and satellite magnetic anomaly comparisons 15 p2356 N84-25136
Geology, hydrology, and mineral resources of crystalline rock areas of the Lake Superior region, US, part 1
[DE84-012682] 21 p3432 N84-31775

HIOTT, B. F.
In-flight evaluation of 2 molecular sieve oxygen concentration systems in US Army aircraft (JUH-1H and JU-21G)
[AD-A140634] 17 p2748 N84-27443

HIPP, K.
Development of a wind energy converter with single blade rotor
[BMFT-FB-T-84-114] 23 p3792 N84-34050

HIPPLE, D. L.
Feasibility tests of pipeline pigs for cryogenic pipelines
[DE83-015494] 02 p0206 N84-11343

HIRAMATSU, K.
Principles of combustion
[INPE-2759-MD/023] 15 p2286 N84-24717

HIRANO, K.
A steady-state axisymmetric toroidal system
[IPPJ-643] 03 p0443 N84-12910
Macroscopic plasma behavior and charged particle acceleration in the plasma focus
10 p1581 N84-20363
A classical picture of anomalous effects in a Tokamak
[IPPJ-664] 13 p2044 N84-23263
Effects of neutrals on particle transport of a plasma
[IPPJ-681] 23 p3827 N84-34274

HIRANO, T.
Response of flame spread phenomena to ambient air stream velocity changes 04 p0514 N84-13373

HIRANO, Y.
Optimization of laminated composite cylindrical shells for axial buckling 07 p0985 N84-16377

HIRASUNA, A. R.
Geothermal Elastomeric Materials Technology Transfer (GEM-TT) Program
[DE83-013118] 01 p0050 N84-10325

HIRATA, C. M.
Error measurement of a deterministic approximation for stochastic production planning problem
[INPE-2768-PRE/341] 09 p1381 N84-19017

HIRATA, M. H.
Influence of extratropical heteorological phenomenon on the northeast Brazilian climate: A study using finite elements
[INPE-2912-PRE/425] 13 p2016 N84-23072
A synoptic study of the influence of extra-tropical latitude systems on the climatic variability in northeast Brazil
[INPE-3225-PRE/576] 24 p3922 N84-34824
A study of the influence of extra-tropical latitude systems on the climatic variability in Northeast Brazil
[INPE-3264-PRE/595] 24 p3922 N84-34825

HIRATSUKA, K.
Method of refining 2,2-isopropylidenebis-3,5-dibromophenylene-4-oxydiethanol
[NASA-TM-77458] 10 p1453 N84-19492

HIRAYAMA, T.
Fine pointing control of the solar UV telescope on the sounding rocket S-520-5
[ISAS-608] 06 p0938 N84-16094
Facular limb-darkening functions for irradiance modeling 17 p2778 N84-27638

HIRD, E. E.
Operator workload measurement validation for the MARK IV DSCC monitor and control subsystem
10 p1475 N84-19634

HIROKURA, S.
ICRF heating experiments on JIPP T-II
[IPPJ-650] 10 p1580 N84-20352
Visible-light imaging MHD studies of the edge plasma in the JIPP-T-IIU Tokamak
[IPPJ-683] 23 p3827 N84-34272

HIROKURA, Y.
Ion Bernstein wave heating experiment on JIPPT-II-U device
[IPPJ-662] 11 p1734 N84-21305

HIROOKA, G.
Partial level down in brightness of Geostationary Meteorological Satellite (GMS) infrared (IR) images caused by the Moon 09 p1347 N84-18800

HIROSE, T.
On the SAR response of agricultural targets in a northern prairie environment 23 p3770 N84-33896

HIROSUE, K.
Aerodynamic characteristics of fan-jet STOL aircraft
[NAL-TR-790] 16 p2440 N84-25651

HIROTA, I.
Research status and recommendations from the Alaska workshop on gravity waves and turbulence in the middle atmosphere
[AD-A140939] 18 p2879 N84-28281

HIRSCH, C.
Finite element methods for potential flows
06 p0835 N84-15437
A viscid inviscid interaction procedure for two dimensional cascades 07 p0955 N84-16191
End-wall boundary layer calculations in multistage axial compressors 07 p0957 N84-16205

HIRSCH, G.
Practical experience during installation of the large multiaxes vibration test facility SAMSON
03 p0339 N84-12199

HIRSCH, J.
Limits of pattern discrimination in human vision
[AD-A139921] 15 p2379 N84-25278

HIRSCHER, M.
Phase transformation study of Cu2S
[AD-A135587] 09 p1279 N84-18352

HIRSCHFELD, T.
Process, product, and waste-stream monitoring with fiber optics
[DE83-001102] 03 p0441 N84-12899
Fiber optics temperature and pressure probe
[DE84-001785] 04 p0605 N84-13990
Instrumentation for remote sensing over fiber optics
[DE84-001788] 04 p0605 N84-13991

HIRSCHKRON, R.
Contingency power concepts for helicopter turboshaft engine
[NASA-TM-83679] 14 p2109 N84-23648
Rotorcraft contingency power study
[NASA-CR-174675] 15 p2261 N84-24580

HIRSEKORN, S.
Non-destructive evaluation techniques, high temperature ceramic component parts for gas turbines
[NASA-TM-77755] 23 p3694 N84-33413

HIRSH, R. S.
Higher order approximations in fluid mechanisms: Compact to spectral 06 p0839 N84-15466

HIRSHFIELD, J. L.
Wave-particle interactions on relativistic electron beams
[AD-A134270] 07 p1009 N84-16545

HIRSHMAN, S. P.
Steepest descent moment method for three-dimensional magnetohydrodynamic equilibria
[DE84-002993] 07 p1076 N84-16999
Accelerated convergence of the steepest-descent method for magnetohydrodynamic equilibria
[DE84-013602] 22 p3659 N84-33195

HIRSIG, R.
Development of a general model of the car drivers eye movement sequences and effects of subject and environmental variables
[AD-A144180] 24 p3936 N84-34915

HIRTH, J. P.
Effect of UV illumination on the sublimation of basal surfaces of zinc oxide
[AD-A133383] 06 p0801 N84-15222

HIRTZEL, C. S.
Research and research needs in colloidal interactions
[PB84-161231] 14 p2124 N84-23731

HISADA, Y.
An R and D model of a synthetic aperture radar antenna 23 p3777 N84-33949
Some test results of synthetic aperture radar transmitter and receiver 23 p3783 N84-33988

HISHINUMA, A.
Effects of pulsed and/or dual ion irradiation on microstructural evolution in a Ti and Si modified Austenitic alloy
[DE84-003411] 08 p1134 N84-17374

HISKES, J. R.
Concept for a volume-type tandem three-chamber negative hydrogen ion source
[DE84-003338] 07 p1073 N84-16971
De-excitation and equipartition in H2-surface collisions
[DE84-003006] 08 p1229 N84-18031
Three chamber negative ion source
[DE84-014505] 23 p3823 N84-34243

HITCHCOCK, D. A.
Variational theory of RF-driven currents
[DE83-016745] 04 p0609 N84-14022

HITCHO, G. E.
Effects of variations in heat treatment on the mechanical properties and microstructure of ASTM A710 Grade A Class 3 steel
[AD-A136328] 09 p1282 N84-18371

HITNEY, H. V.
Tropospheric propagation assessment
15 p2326 N84-24965

HITNEY, L. R.
ELF/VLF (Extremely Low Frequency/Very Low Frequency) long path pulse program for antennas of arbitrary elevation and orientation
[AD-A133876] 05 p0667 N84-14388

HITT, E. F.
Validation of digital systems in avionics and flight control applications handbook, volume 1
[AD-A133222] 06 p0788 N84-15150
Digital avionics design for validation
[AD-P003571] 21 p3337 N84-31176

HITZEL, S.
Numerical solutions of the Euler equations simulating vortex flows around wings 03 p0324 N84-12120

HIXON, C. W.
Flexible radiator thermal vacuum test report
[NASA-CR-171764] 11 p1623 N84-20622

HIXSON, W. C.
Airsickness during Naval flight officer training: Fleet readiness squadrons
[AD-A138973] 14 p2185 N84-24095

HIZA, M. J.
Liquified natural gas densities: Summary of research program at the National Bureau of Standards
[PB84-202647] 22 p3675 N84-33297

HJELMFELT, M. R.
Measurements inside Oklahoma thunderstorms
[PB84-206911] 21 p3450 N84-31891

HJELMSTAD, J.
Ocean waves and turbulence as observed with an adaptive coherent multifrequency radar
17 p2714 N84-27279

HJELMSTAD, K. D.
Seismic behavior of active beam links in eccentrically braced frames
[PB84-119676] 09 p1297 N84-18480

HO, C. T.
Finite element analysis of axisymmetric forging
15 p2307 N84-24838

HO, F. P.
Pertinent meteorological data for hurricane Allen of 1980
[PB84-104322] 08 p1192 N84-17766
HO, H. C.
A study on the prediction of the starting transient process of solid propellant rocket motors
[AD-A139453] 14 p2118 N84-23692
HO, H. N.
On the application of optical signal processing to the solution of Riccati equations
[AD-A130710] 01 p0133 N84-10869
HO, P.
In situ laser measurements of silicon CVD
[DE84-004148] 10 p1501 N84-19809
HO, T.
The effect of environment on the mechanical behavior of AS/3501-6 graphite/epoxy material
[AD-A133331] 06 p0799 N84-15205
HO, T. H.
Polymerization of functionalized acetylenes
[AD-A137120] 10 p1465 N84-19570
Polymerizations of acetylenes and cyclic olefins induced by metal-carbynes
[AD-A137090] 10 p1468 N84-19589
HO, W. W.
Research on ferroelectric materials for millimeter wave application
[AD-A137128] 10 p1588 N84-20405
HO, Y. C.
On the interactions of incentive and information structures
[DE83-012084] 04 p0616 N84-14065
HOAD, D. R.
Experimental blade vortex interaction noise characteristics of a utility helicopter at 1/4 scale
[NASA-TM-84653] 08 p1227 N84-18018
NASA/Army supported noise source/noise reduction programs at Langley 19 p3097 N84-29669
Facility requirements for helicopter noise research 19 p3097 N84-29672
HOAG, E.
Proof of principle experiment for a coherent CO2 waveguide laser array
[AD-A139121] 14 p2150 N84-23881
HOANG, P. H.
Singularities at the tip of a crack normal to the interface of an anisotropic layered composite
[AD-A131504] 01 p0096 N84-10625
HOANG, S.
Measurement of macroscopic plasma parameters with a radio experiment: Interpretation of the quasi-thermal noise spectrum observed in the solar wind 03 p0470 N84-13096
The ISPM unified radio and plasma wave experiment 09 p1262 N84-18237
HOARD, R. W.
Advanced high-field coil designs: 20 Tesla
[DE83-017368] 03 p0368 N84-12397
Analytical studies of advanced high-field designs: 20-Tesla large-bore superconducting magnets
[DE83-017591] 04 p0594 N84-13918
Ultra-high-field superconducting magnets
[DE84-003913] 08 p1226 N84-18012
Application of He-II technology to the production of ultrahigh-field superconducting magnets
[DE84-004853] 10 p1575 N84-20319
HOBART, H. F.
Advanced high temperature heat flux sensors
[NASA-TM-83526] 07 p1001 N84-16493
HOBBIE, J. E.
Deforestation measured by LANDSAT: Steps toward a method
[DE83-016645] 04 p0554 N84-13652
Test of the use of LANDSAT imagery to detect changes in the area of forest in the tropics
[DE84-004444] 08 p1179 N84-17680
HOBBS, H. H.
Terrestrial whisker growth experiments which anticipate some special effects of a space station environment
[NASA-CR-175440] 11 p1627 N84-20647
HOBBS, J. P.
Development of FT-IR attenuated total internal reflection dichroism techniques for structural characterization of polymer surfaces
[AD-A140805] 17 p2768 N84-27577
HOBBS, L. W.
Structural performance of ceramics in a high-fluence fusion environment
[DE84-001311] 04 p0508 N84-13329
HOBBS, M. A. A.
The Stencel S4S ejection seat: A study in new pyrotechnic developments 20 p3141 N84-29943
HOBBS, R. H.
Energetics and collision dynamics of electronic transition lasers
[AD-A135894] 09 p1322 N84-18639
Theoretical study of the radiative and kinetic properties of selected metal oxides and air molecules
[AD-A141230] 18 p2811 N84-27847
HOBERECHT, M. A.
A 37.5-kW point design comparison of the nickel-cadmium battery, bipolar nickel-hydrogen battery, and regenerative hydrogen-oxygen fuel cell energy storage subsystems for low Earth orbit
[NASA-TM-83651] 13 p2008 N84-23022
Design considerations for a 10-kW integrated hydrogen-oxygen regenerative fuel cell system
[NASA-TM-83664] 13 p2008 N84-23023
HOBGOOD, J. M.
Advanced solar power systems 18 p2872 N84-28235
HOBGOOD, R. B.
Measurement of the characteristic impedance of balanced twisted pairs using scattering parameters 11 p1725 N84-21250
HOBLITZELL, R.
Using an X-ray-sensitive vidicon and remote-control stage mechanism to obtain critical radiographic alignment of small explosive devices
[DE83-012846] 03 p0358 N84-12326
HOBSON, B. A.
Emergency handling of compressed air casualties
[AD-A143598] 23 p3810 N84-34157
HOBSON, J. W.
The nicrosil versus nisil type N thermocouple: A commercial reality
[MRL-R-903] 16 p2495 N84-26005
HOBSON, W. S.
Photoluminescent properties of n-GaAs electrodes: Applications of the dead-layer model to photoelectrochemical cells
[AD-A131301] 02 p0298 N84-11958
HOCHHEIMER, B. F.
A study of low level laser retinal damage
[AD-A137664] 11 p1695 N84-21055
HOCHSTEIN, J. I.
Computational modeling of jet induced mixing of cryogenic propellants in low-G
[NASA-TM-83703] 15 p2331 N84-25000
Computational modelling of jet induced mixing in cryogenic propellant tanks in low-g 23 p3745 N84-33742
HOCHSTEIN, L. I.
The growth of paracoccus halodenitrificans in a defined medium
[NASA-TM-84411] 01 p0111 N84-10724
Nitrite reduction in paracoccus halodenitrificans: Evidence for the role of a cd-type cytochrome in ammonia formation
[NASA-TM-85883] 10 p1545 N84-20125
HOCHULI, U.
Investigation of cold cathode and RF excitation for long life CO2 waveguide lasers
[AD-A136088] 09 p1323 N84-18643
HOCK, S.
Wind energy systems for electric utilities: A synthesis of value studies
[DE83-011968] 16 p2512 N84-26121
Wind energy systems for electric utilities: A synthesis of value studies
[DE84-004520] 21 p3435 N84-31796
HOCKENBERGER, R. L.
Aircrew performance with simulated advanced radar and FLIR (Forward Looking Infrared) sensors in single- and two-place crew stations
[AD-P003269] 18 p2907 N84-28434
HOCKENSMITH, R. P.
Electronic Switching Spherical Array (ESSA) antenna systems
[NASA-TM-86127] 22 p3572 N84-32621
HOCKEY, B. J.
Effect of contact damage on the strength of ceramic materials
[AD-A133746] 05 p0658 N84-14327
HOCKING, W. K.
The delta S (delta R)-2 question: The pulse-length dependence of signal power for Fresnel scatter 17 p2685 N84-27099
The spaced antenna drift method 17 p2687 N84-27107
The relationship between strength of turbulence and backscattering radar power at HF and VHF 17 p2689 N84-27125
On the extraction of atmospheric turbulence parameters from radar backscatter Doppler spectra. Part 1: Theory 17 p2689 N84-27127
Mesopheric turbulence intensities measured with a HF radar at 35 deg S. Part 2 17 p2689 N84-27128
HODEN, J. G., II
Interactive implementation of the optimal systems control design program (OPTSYSX) on the IBM 3033
[AD-A144159] 24 p3948 N84-35000
HODGDON, J. A.
A survey of body fat content of U.S. Navy male personnel
[AD-A131500] 01 p0113 N84-10736
Aerobic/calisthenic and aerobic/circuit weight training programs for Navy men: A comparative study
[AD-A140971] 18 p2900 N84-28396
HODGDON, R. B.
Anion permselective membrane
[NASA-CR-174725] 19 p3050 N84-29358
HODGE, B. K.
Generalized roughness effects on turbulent boundary layer heat transfer. A discrete element predictive approach for turbulent flow over rough surfaces
[AD-A141943] 20 p3183 N84-30227
HODGE, J. E.
Automated administrative data bases 11 p1749 N84-21411
HODGE, J. K.
Trends in shuttle entry heating from the correction of flight test maneuvers 01 p0023 N84-10146
HODGE, P. G., JR.
Simple examples of non linear truss behavior
[AD-A143368] 22 p3611 N84-32882
HODGE, R. W.
NASA rotor system research aircraft flight-test data report: Helicopter and compound configuration
[NASA-TM-85843] 22 p3535 N84-32381
HODGES, G. S.
All-electric accessory drive systems: Implications on engine design and performance 03 p0336 N84-12184
HODGES, W. T.
Rapid adhesive bonding concepts
[NASA-TM-86256] 20 p3145 N84-29968
HODGETT, D.
State-of-the-art survey of existing knowledge for the design of ground-source heat pumps
[DE84-002988] 07 p1003 N84-16504
HODGKINS, H. L.
Expendable infrared source and method therefor
[AD-D011112] 22 p3561 N84-32551
HODGKINS, K.
LANDSAT-4 commercialization update 10 p1523 N84-19974
HODGKINS, T. G.
The bromination of pyrazabole
[AD-A144264] 24 p3880 N84-34581
HODGKINSON, J.
V/STOL (Vertical/Short Takeoff and Landing) low speed and transition equivalent systems analysis
[AD-A131955] 03 p0330 N84-12156
HODGSON, F. N.
Properties of aircraft fuels and related materials
[AD-A141068] 19 p3001 N84-29019
HODSON, H. P.
The development of unsteady boundary layers on the rotor of an axial-flow turbine 07 p0956 N84-16197
HODSON, J. A.
Modes of deformation and failure of Kevlar 49 fibers and composites
[DE84-004162] 13 p1954 N84-22706
HODUL, D. T.
New approach to the generation of metal-bearing, medium-pore, shape-selective zeolites for Fischer-Tropsch catalysis: Spectroscopic studies of zeolites
[DE83-014344] 03 p0347 N84-12254
HOEEL, R.
Glass fibre/epoxy resin interface life-time prediction
[AD-A132206] 04 p0507 N84-13320
HOEFFL, K.
Influence parameters of impact grinding mills
[NASA-TM-77352] 10 p1471 N84-19607
HOEGEL, J.
Influences affecting separation in monotectic alloys under microgravity 17 p2612 N84-26723
HOEGER, G.
Concept study phase A2 for the solar spectrograph PETRA
[BMFT-FB-W-83-014] 07 p1008 N84-16540
HOEGY, W. R.
Thermal electron heating rate: A derivation
[NASA-TM-85124] 06 p0914 N84-15941
HOEHNE, H.
Investigations made to improve the cold-cracking and the fracture behavior of welded joints in high-strength structural steels
[BMFT-FB-T-84-034] 16 p2466 N84-25803
HOEIJMAKERS, H. W. M.
Computational vortex flow aerodynamics 03 p0324 N84-12117

Aspects of second- and third-order panel methods demonstrated for the two-dimensional flat plate problem
[NLR-TR-81074-U] 03 p0373 N84-12433
Computational vortex flow aerodynamics
[NLR-MP-83017-U] 12 p1766 N84-21522
Numerical computation of vortical flows about wings
16 p2492 N84-25987

HOEKMANN, D. H.
Radar backscattering of forest stands
23 p3767 N84-33880

HOELLIG, K.
Convergence of bivariate cardinal interpolation
[AD-A142894] 21 p3472 N84-32006

HOENIG, M.
Technical analyses and related planning assistance in supporting of DOE's superconducting magnetic energy storage program
[DE83-012005] 01 p0139 N84-10909

HOENLINGER, H.
Development and flight test of an active flutter suppression system for the F-4F with stores. Part 2: Ground tests and subcritical flight tests
[AD-A131402] 02 p0178 N84-11163
Development and flight test of an active flutter suppression system for the F-4F with stores. Part 3. Flight demonstration of the active flutter suppression system
[AD-A131972] 03 p0337 N84-12191

HOERGER, J.
Integrating micro-computers with a centralized DBMS: ORACLE, SEED AND INGRES
11 p1748 N84-21409
Asynchronous file transfer to IBM PC's
22 p3672 N84-33275

HOERMANN, A.
Simulation analysis and derivation of accuracy requirements for future terminal area navigation. Part 1: Single aircraft analysis
[BMFT-FB-W-83-035-PT-1] 12 p1768 N84-21535
Simulation analysis and derivation of accuracy requirements for future terminal area navigation. Part 2: Multi aircraft analysis
[BMFT-FB-W-83-036-PT-2] 12 p1769 N84-21536

HOERNER, W.
New process for recycling of rhodium and iridium from old catalysts
[BMFT-FB-T-83-179] 08 p1126 N84-17321

HOERNLEIN, H.
Preliminary design of aircraft using structural optimization methods 02 p0172 N84-11133

HOERST, D. J.
Experimental investigation of shock-cell noise reduction for dual-stream nozzles in simulated flight comprehensive data report. Volume 1: Test nozzles and acoustic data
[NASA-CR-168336-VOL-1] 14 p2220 N84-24323
Experimental investigation of shock-cell noise reduction for dual-stream nozzles in simulated flight comprehensive data report. Volume 2: Laser velocimeter data, static pressures and shadowgraph photos
[NASA-CR-168336-VOL-2] 14 p2220 N84-24324
Experimental investigation of shock-cell noise reduction for single-stream nozzles in simulated flight, comprehensive data report. Volume 1: Test nozzles and acoustic data
[NASA-CR-168234-VOL-1] 22 p3652 N84-33148
Experimental investigation of shock-cell noise reduction for single-stream nozzles in simulated flight, comprehensive data report. Volume 2: Laser velocimeter data
[NASA-CR-168234-VOL-2] 22 p3652 N84-33149
Experimental investigation of shock-cell noise reduction for single-stream nozzles in simulated flight, comprehensive data report. Volume 3: Shadowgraph photos and facility description
[NASA-CR-168234-VOL-3] 22 p3652 N84-33150

HOERZ, F.
The chemistry of micrometeoroids (A0187-1)
15 p2276 N84-24669

HOESS, A.
Developing of practical methods for the determination of the stagnation temperature and the durability of solar collectors
[BMFT-FB-T-83-227] 10 p1530 N84-20024

HOESSLER, B.
Automation of a stamping press using sequential hydraulic manipulators
[CETIM-1-4N-090] 21 p3376 N84-31422

HOETZEL, C.
Windpower utilization possibilities
23 p3785 N84-34007

HOEVE, C.
Research on composite materials for structural design
[AD-A134059] 05 p0645 N84-14242

HOEY, R. G.
AFFTC overview of orbiter-reentry flight-test results
01 p0027 N84-10169

HOF, J. J.
Environmental effects of increasing the amount of district heating in the Netherlands
[S/T-REPT-VOL-1-NO-5] 20 p3238 N84-30558

HOFER, W.
High-current railgap studies
[DE83-013859] 02 p0290 N84-11898

HOFF, A.
Meteorological measurements in the Northern German coastal area for wind energy prospection
[BMFT-FB-T-84-017] 16 p2529 N84-26241

HOFF, H. A.
Study of ion bombardment-induced subsurface compositional modifications in Ni-Cu alloys at elevated temperatures by ion scattering spectroscopy
[DE84-003632] 06 p1135 N84-17380

HOFF, R. S., JR.
AFWAL FY82 technical accomplishments
[AD-A131839] 03 p0315 N84-12054

HOFFARTH, B. E.
Recent re-measurement of neutron and gamma-ray spectra 1080 meters from the APRD (Army Pulse Radiation Division) critical facility
[AD-A141791] 19 p3124 N84-29846

HOFFER, J. B.
Computer simulations of gravitational encounters between pairs of binary star systems
10 p1595 N84-20456

HOFFER, J. K.
Maximum supercooling in liquid 3He-4He mixtures near the tricritical point
[DE84-010076] 22 p3665 N84-33232
Dynamical scaling in 3He-4He liquid mixtures
[DE84-010072] 22 p3665 N84-33233
Optical effects of the gravitationally induced concentration gradient in tricritical 3He-4He
[DE84-009972] 23 p3830 N84-34297

HOFFER, K.
Economic riveting: Different bore qualities, fittings, connection elements 14 p2094 N84-23560
Generation of marker lines by means of marker loads
17 p2680 N84-27074

HOFFERT, M. I.
A study of air-pollution mixing heights and atmospheric turbulence over New York City, data report
[DE83-010624] 02 p0244 N84-11596

HOFFMAN, A.
Present capabilities and future requirements for computer-aided geometric modeling in the design and manufacture of gas turbine 12 p1875 N84-22219

HOFFMAN, A. J.
Triangulations (tilings) and certain block triangular matrices
[DE84-003579] 07 p1064 N84-16902

HOFFMAN, A. L.
Radial plasma measurements and calculations in the center of a 3-meter laser-heated theta pinch
[DE83-015545] 01 p0150 N84-10989

HOFFMAN, C. A.
Microstructure and orientation effects on properties of discontinuous silicon carbide/aluminum composites
[NASA-TP-2302] 17 p2617 N84-26749

HOFFMAN, E.
Robotron image processing systems
18 p2919 N84-28509
Robotron remote processing systems
18 p2919 N84-28510
Robotron digitalization unit 18 p2919 N84-28511

HOFFMAN, E. B.
Water resources data for South Dakota, water year 1982
[PB84-117175] 09 p1339 N84-18748

HOFFMAN, E. E.
Refractory alloy technology for space nuclear power applications
[DE84-001745] 21 p3497 N84-32166

HOFFMAN, G. H.
A rapid method for predicting suction distributions to maintain attached, laminar boundary layers on bodies of revolution
[AD-A139125] 14 p2145 N84-23856
An inverse laminar boundary layer problem with assigned wall shear: The mechul function revisited
[AD-A142328] 19 p3025 N84-29182

HOFFMAN, G. L., JR.
Spherical simulations of large scale structure in the universe 03 p0463 N84-13052

HOFFMAN, H.
Combined attitude control and energy storage
03 p0345 N84-12237

HOFFMAN, H. E.
First stage of equipment for aircraft Do 28 of DFVLR as a research aircraft for icing and first research results
[DFVLR-FB-83-40] 15 p2259 N84-24571

HOFFMAN, I. L.
Identification of bottlenecks and capacity constraints in F-14, F-15, F-16, and F/A-18 aircraft production
[AD-A134629] 08 p1095 N84-17121

HOFFMAN, J. A.
A preliminary investigation of the drag and ventilation characteristics of livestock haulers
[NASA-CR-170408] 05 p0781 N84-14890

HOFFMAN, J. H.
Study of outgassing and decomposition of Space Shuttle heat protection tiles, fillers and adhesive
[NASA-CR-173974] 24 p3860 N84-34465

HOFFMAN, J. J.
An experimental and analytic study of the flow subsonic wind tunnel inlets
[AD-A138865] 13 p1927 N84-22540

HOFFMAN, J. M.
Analysis of mechanisms for anode plasma formation in ion diodes
[DE83-017793] 04 p0608 N84-14010

HOFFMAN, M.
Cronus: A distributed operating system
[AD-A139588] 14 p2209 N84-24260

HOFFMAN, M. A.
Thermal analysis of a helium-cooled tube-bank blanket module for a tandem-mirror fusion reactor
[DE83-015840] 02 p0297 N84-11945

HOFFMAN, M. D.
The effects of weather on rapid runway repair, volume 2
[AD-A130350] 01 p0016 N84-10105
Experiments on factors that influence muscular function in man
[AD-A133928] 06 p0688 N84-15771
Cronus, A distributed operating system: Functional definition and system concept
[AD-A142795] 21 p3482 N84-31950

HOFFMAN, M. L.
Evaluation of a digital flight controller for a flexible-fighter aircraft
[AD-A138269] 12 p1772 N84-21558

HOFFMAN, M. Z.
Study of intermediates from transition metal excited-state electron-transfer reactions
[DE84-008587] 18 p2942 N84-28657

HOFFMAN, R.
C-h and h-h activation in transition metal complexes and on surfaces
[AD-A136468] 09 p1279 N84-18350

HOFFMAN, R. G.
Memory organization-based methods of instruction: A comparison with performance-oriented training
[AD-A137640] 11 p1701 N84-21098
Memory organization-based methods of instruction: Rationale and development
[AD-A137504] 11 p1702 N84-21101

HOFFMAN, R. J.
Application of the CONTAM 3 computer model to the prediction of heating, forces, and contamination on a communications satellite 13 p1941 N84-22621
CONTAM 3 plus improved CONTAM 3 usability
13 p1941 N84-22622
Recent applications of the CONTAM 3 computer model to spacecraft propulsion systems
20 p3137 N84-29916

HOFFMAN, R. N.
Effect of high latitude filtering on NWP skill
12 p1852 N84-22066
Lagged average forecasting, some operational considerations 12 p1854 N84-22075
Outlook for improved numerical weather prediction using satellite data with a special emphasis on the hydrological variables
[AD-A141233] 18 p2890 N84-28344

HOFFMAN, R. R.
Methodological preliminaries to the development of an expert system for aerial photo interpretation
[AD-A139899] 15 p2336 N84-25027

HOFFMAN, R. W.
Particle environment
[NASA-CR-173888] 22 p3661 N84-33210

HOFFMAN, S.
Bibliography of Supersonic Cruise Research (SCR) program from 1980 to 1983
[NASA-RP-1117] 18 p2785 N84-27674

HOFFMAN, S. J.
A review of in situ propellant production techniques for solar system exploration
[NASA-CR-173494] 13 p1936 N84-22595

HOFFMAN, T. J.
Optimization of next-event estimation probability in Monte Carlo shielding calculations
[DE83-012643] 01 p0137 N84-10900

HOFFMAN, Z.
Type KODEK DC modems for use in CYFRONET terminal network
[AD-A131057] 02 p0213 N84-11393
HOFFMANN, D. M.
Multispectral linear array visible and shortwave infrared sensors 23 p3781 N84-33977
HOFFMANN, H. E.
Status for knowledge: Meteorological affected icing on aircraft in clouds
[DFVLR-MITT-83-12] 08 p1191 N84-17763
HOFFMANN, H. J.
Statistical trend analysis methodology for rare failures in changing technical systems
[JUEL-SPEZ-215] 07 p1067 N84-16926
HOFFMANN, K.
Lifetime prediction for electronic components and circuits using the phase noise measuring method
[FB-111] 10 p1487 N84-19723
Development of VLSI memories
[BMFT-FB-T-84-022] 16 p2560 N84-26423
HOFFMANN, M.
Modular Optoelectronic Multispectral Scanner (MOMS). Digital image storage
[MBB-UA-686-82-OE] 05 p0746 N84-14901
HOFFMANN, O.
Image quality of passive and active scanners
[MBB-UA-684-83-O] 16 p2564 N84-26449
HOFFMANN, P.
Microwave discharge in a supersonic flow for the excitation of a gas dynamic CO laser
[DFVLR-FB-83-21] 07 p1011 N84-16558
HOFFMANN, R.
Thin film synthesis of superconducting chemical compounds
[AD-A142541] 20 p3148 N84-29992
HOFFMANN, W.
Preparation of a design study for the construction of a 2 million tons/annum commercial scale hydrogenation plant
[BMFT-FB-T-83-135] 03 p0405 N84-12652
HOFFMANN, W. F.
Innovative research in the design and operation of large telescopes for space: Aspects of giant telescopes in space 17 p2765 N84-27560
HOFFMEYER, J. A.
Interoperability of the European Defense Communications System with TRI-service tactical communications
[PB83-240614] 02 p0211 N84-11383
HOFLAND, R., JR.
Pulsed D2-F2 chain-laser damage to coated window and mirror components
[AD-A138911] 13 p1995 N84-22950
HOFMANN, K. H.
The invariance of cones and wedges under flows
[PREPRINT-796] 12 p1817 N84-21848
HOFMANN, M.
Feasibility study of advanced optical techniques for ocean color measurement
[MBB-R3700/292] 12 p1837 N84-21974
HOFMANN, W.
Studies of satellite geodesy, Very Long Baseline Interferometry (VLBI) and geodetic measuring techniques
[BONN-MITT-65] 02 p0233 N84-11528
HOFMEISTER, W.
Mathematical model of power station blocks with forced circulation steam generation
[DRIC-T-7008] 15 p2389 N84-25332
HOFMOCKEL, J. L.
Nonlinear regression analysis methodology for the estimation of detection probabilities from empirical data
[AD-A134078] 05 p0727 N84-14770
HOFSTADTER, D. R.
The copycat project: An experiment in nondeterminism and creative analogies
[AD-A142744] 21 p3470 N84-31990
HOFSTETTER, E. M.
A programmable voice processor for fighter aircraft applications
[AD-A133780] 05 p0668 N84-14393
HOGAN, B. M.
Microstructural stability of copper electroplate
[DE84-010070] 21 p3498 N84-32174
HOGAN, D. T.
Survivability design guidelines for Fly-By-Wire Flight Control Systems development
[AD-A136211] 12 p1772 N84-21557
HOGAN, J.
Parametric testing and evaluation of a free-piston Stirling engine/linear-compressor system
[DE83-017282] 04 p0545 N84-13590
HOGAN, J. T.
Experimental results on finite-beta limits and transport in the ISX-B Tokamak
[DE84-000258] 04 p0606 N84-14001
HOGAN, M. L.
Comments on a problem of Chernoff and Petkau
[AD-A140911] 17 p2759 N84-27518
Comment on corrected diffusion approximations in certain random walk problems'
[AD-A140923] 17 p2759 N84-27519
Corrected diffusion approximations to first passage times
[AD-A140940] 18 p2925 N84-28548
HOGAN, S. J.
Process for forming pure silver ohmic contacts to N- and P-type gallium arsenide materials
[DE84-014515] 23 p3831 N84-34298
HOGAN, T. F.
A calculation of the parabolized Navier-Stokes equations for turbulent axisymmetric flows using streamline coordinates and k-epsilon turbulence model
[AD-A136240] 09 p1313 N84-18582
HOGANSON, E. H.
A study of the aerodynamic interference effects during aerial refueling
[AD-A136895] 10 p1420 N84-19290
HOGARTH, R. M.
Ambiguity and uncertainty in probabilistic inference
[AD-A133418] 06 p0905 N84-15872
A theory of diagnostic inference: Judging causality
[AD-A133172] 07 p1049 N84-16796
A theory of diagnostic inference
[AD-A137032] 10 p1551 N84-20163
HOGBEN, N.
Wave climate synthesis using NMIMET: A trilogy of published papers
[NMI-R-167] 18 p2855 N84-28127
Assessment of a new global capability for wave climate synthesis 18 p2855 N84-28128
Ocean Wave Statistics: A new look
18 p2855 N84-28129
Wave climate synthesis worldwide
18 p2855 N84-28130
HOGG, H.
Klystron voltage pulse timing experiment
[DE84-011753] 20 p3177 N84-30176
HOGG, H. A.
Transient high-field behavior of niobium superconducting cavities
[DE83-011852] 01 p0068 N84-10443
Improving the phase stability of the SLAC RF driveline network for SLC operation
[DE83-012714] 01 p0143 N84-10943
HOGG, N. G.
Observational evidence for an eddy-driven deep circulation in the North Atlantic
[AD-P002660] 11 p1690 N84-21025
HOGGATT, R. E.
Water resources data for Indiana, water year 1982
[PB84-114990] 09 p1339 N84-18747
HOGGE, R.
Air Force Academy Aeronautics Digest - Fall/Winter 1982
[AD-A135073] 08 p1099 N84-17145
Air Force Academy Aeronautics Digest
[AD-A142399] 20 p3125 N84-29849
HOH, R.
Control/display trade-off study for single-pilot instrument flight rule operations 03 p0313 N84-12044
HOH, R. H.
Tentative STOL (short-takeoff-and-landing) flying qualities criteria for MIL standard and handbook
[AD-A132857] 05 p0629 N84-14138
HOHEISEL, H.
The generation of higher levels of turbulence in the test section of the high speed cascade wind tunnel at Brunswick for simulation of turbomachinery conditions
[ESA-TT-815] 16 p2440 N84-25654
HOHENSEE, P.
SISAL: Streams and Iteration in a Single-Assignment Language. Language reference manual, version 1.1
[DE83-016576] 04 p0582 N84-13843
HOHENSEE, W.
The microcomputer knowledge base: Introduction and user instructions
[AD-A137694] 11 p1704 N84-21108
HOHENSTEIN, G.
Optimizing coagulation-adsorption for haloform and TOC (Total Organic Carbon) reduction
[PB83-210757] 01 p0058 N84-10378
HOHENWARTER, G. K.
Wideband monolithic microwave amplifier study
[AD-A136424] 09 p1318 N84-18608
HOHL, F.
Solar pumped laser
[NASA-CASE-LAR-12870-1] 07 p1009 N84-16542
HOHLA, K. L.
High-efficiency free-electron-laser experiments
[DE83-015218] 02 p0227 N84-11487
HOHMAN, A. E.
Design and manufacturing practices to minimize corrosion in aircraft 16 p2435 N84-25620
HOHMAN, J.
Dye laser traveling wave amplifier
[NASA-CR-175228] 15 p2338 N84-25036
HOIBERG, A.
Health risks associated with aircraft model type among US Navy pilots
[AD-P003270] 18 p2907 N84-28435
HOIDA, H. W.
Space resolved absolutely calibrated VUV spectroscopic measurements on CTX
[DE84-007490] 20 p3304 N84-30984
Mixed mode operation in CTX
[DE84-007493] 20 p3304 N84-30985
Ohmic heating to 100-eV and helicity injection in CTX
[DE84-007494] 20 p3304 N84-30986
Confinement time and energy balance in the CTX spheromak
[DE84-007492] 20 p3304 N84-30987
HOITSMA, D. H., JR.
The computation of all plane/surface intersections for CAD/CAM applications 12 p1869 N84-22182
HOKE, M. L.
A spectrum of methane from 700 to 5500 cm-1
[NASA-CR-175360] 07 p0969 N84-16280
Simultaneous retrieval of atmospheric temperatures and ray paths from occultation spectra
[NASA-CR-173649] 17 p2726 N84-27354
HOKE, S. H.
Nitroguanidine wastewater pollution control technology: Phase 2 wastewater characterization and analytical methods development for organics
[AD-A141176] 18 p2811 N84-27844
HOKIN, S.
Sloshing-ion equilibria in the TARA endplugs
[DE84-003360] 11 p1738 N84-21337
HOKMABADI, M. S.
Low-frequency Raman scattering from vitreous and molten B2O3
[AD-A132698] 05 p0649 N84-14269
HOLANDA, R.
Analysis of thermoelectric properties of high-temperature complex alloys of nickel-base, iron-base and cobalt-base groups
[NASA-TP-2278] 09 p1281 N84-18370
HOLBECK, H. J.
Brayton module development overview
18 p2874 N84-28245
HOLBERG, C. J.
Respiratory effects on population from low-level exposures to ozone
[PB83-246132] 04 p0573 N84-13774
HOLBERT, R. K., JR.
Microstructural analysis for series 300 stainless steel sheet welds and tensile samples
[DE84-008513] 22 p3605 N84-32837
HOLCOMBE, G.
Development, test and delivery of solid propellant generators for inflation of PFD's
[AD-A130477] 21 p3460 N84-31946
HOLCOMBE, H. T.
Terrain effects in resistivity and magnetotelluric surveys
[DE83-011084] 02 p0240 N84-11575
HOLDAHL, R. L.
On the distribution of complexity for de Bruijn sequences
[AD-A140679] 17 p2758 N84-27510
HOLDEMAN, J. D.
Tabulations of ambient ozone data obtained by GASP (Global Air Sampling Program) airliners, March 1975 to July 1979
[NASA-TM-82742] 09 p1348 N84-18806
Modeling of dilution jet flowfields
11 p1611 N84-20547
Simultaneous cabin and ambient ozone measurements on two Boeing 747 airplanes. Volume 2: January to October 1978
[NASA-TM-81733] 12 p1917 N84-22488
On modeling dilution jet flowfields
[NASA-TM-83708] 16 p2450 N84-25713
Climatology of ozone at altitudes from 19,000 at 59,000 feet based on combined GASP and ozonesonde data
[NASA-TP-2303] 21 p3446 N84-31865
GASP cloud- and particle-encounter statistics and their application to LPC aircraft studies. Volume 1: Analysis and conclusions
[NASA-TM-85835] 24 p3923 N84-34828

HOLDEN, K. M., II
An evaluation of polymer coatings for the promotion of dropwise condensation of steam
[AD-A144018] 23 p3725 N84-33602
HOLDEN, M. S.
Studies of boundary layer transition and surface roughness effects in hypersonic flow
[AD-A140803] 17 p2601 N84-26670
HOLDEN, W. L.
Heat exchange following atropine injection before and after heat acclimation
[AD-A132618] 06 p0890 N84-15780
HOLDER, G. D.
Heat and mass transfer during the growth and dissociation of gas hydrates in porous media
[PB83-255414] 05 p0682 N84-14482
HOLDER, J. D.
A voltmeter for remotely sensing high voltages
[AD-D011046] 19 p3027 N84-29199
HOLDER, M.
Searching for limitations in capability due to high average rates 06 p0911 N84-15919
Operation of a high-P/sub T spectrometer arm at 10/sup 33 cm-2 sec-1 with praticle identification 06 p0913 N84-15937
HOLDERER, O. C.
Low gravity experiment for studying a rotating fluid having a free surface
[NASA-CR-170923] 03 p0371 N84-12413
Design and construction of equipment items for geophysical fluid flow models
[NASA-CR-171017] 15 p2335 N84-25018
HOLDREN, M. W.
Turbine engine exhaust hydrocarbon analysis, tasks 1 and 2
[AD-A131522] 01 p0012 N84-10074
HOLDRIDGE, D. B.
Factorization using the quadratic sieve algorithm
[DE84-004140] 09 p1379 N84-19010
Factorization using the quadratic sieve algorithm
[DE84-004996] 10 p1572 N84-20299
HOLEMAN, E. G.
Technique for producing a coherent sum of the data from P78-1, F2, and F4 satellites
[AD-A131965] 03 p0340 N84-12210
Sheath shapes: A 3-D generalization of the Child-Langmuir sheath model for large high-voltage space structures in dense plasmas
[AD-P002124] 16 p2525 N84-26210
HOLGERSSON, S.
United Stirling's solar engine development: The background for the Vanguard engine 18 p2873 N84-28242
HOLIAN, B. L.
Dense molecular thermodynamics
[DE83-015216] 03 p0457 N84-13006
Equation of state for the detonation products of several simple explosives
[DE83-017266] 06 p0813 N84-15290
HOLINSKI, R.
Support of oil lubrication by bonded coatings 15 p2342 N84-25057
HOLITZA, F. J.
Profs' Doppler radar data processing system. Part 1: Design and implementation with application to NEXRAD algorithms
[PB84-165224] 14 p2182 N84-24073
HOLKO, M. L.
Classification and area estimation of land covers in Kansas using ground-gathered and LANDSAT digital data
[E84-10068] 06 p0865 N84-15637
HOLL, J. W.
An investigation of cavity cycling for ventilated and natural cavities
[AD-A130641] 01 p0078 N84-10511
HOLLADAY, R.
Airfield delay simulation model (ADSIM) users guide
[PB84-171552] 17 p2611 N84-26715
HOLLAND, C. R.
Performance tests of 4-5 year old lithium sulphur dioxide batteries
[AD-A139842] 15 p2363 N84-25176
HOLLAND, G. J.
Tropical cyclones in the Australian/southwest Pacific region 05 p0710 N84-14654
HOLLAND, L. R.
High-temperature, high-pressure optical cell
[NASA-CASE-MFS-26000-1] 07 p1075 N84-16986
HOLLAND, O. W.
Ion implantation, ion beam mixing and annealing studies of metals in Al2O3, SiC and Si3N4
[DE84-012396] 20 p3157 N84-30052
The use of isotopically-enriched carbon probes for erosion deposition measurements in the ASDEX divertor
[DE84-012329] 20 p3307 N84-31006
HOLLAND, P. W.
Analyzer for determining helium-4 in the part-per-billion range
[PB84-189554] 20 p3191 N84-30272
HOLLAND, T. C.
Abrasion-erosion resistance of concrete made with two aggregates, Stonewall Jackson Dam, West Virginia
[AD-A133432] 06 p0822 N84-15357
HOLLAND, W. R.
Simulation of midlatitude variability
[AD-P002655] 11 p1690 N84-21020
HOLLANDER, H. I.
Preliminary operating assessment advanced Heat Recovery Incinerator (HRI). Site One: O'Connor Combustor Corporation
[AD-A131254] 01 p0103 N84-10867
HOLLECK, H.
Structure, preparation and properties of refractory compounds and systems (hard materials and hard metals)
[NASA-TM-77076] 07 p0974 N84-16309
HOLLEMAN, J. W.
Problem definition study on emission by-product hazards from diesel engines for confined space Army workplaces
[AD-A141377] 19 p3052 N84-29367
HOLLENBACH, D.
Far-IR spectroscopy of the galactic center: Neutral and ionized gas in the central 10 pc of the galaxy
[NASA-CR-166510] 13 p2070 N84-23411
HOLLENBACH, D. J.
Detection of extrasolar planets by the large deployable reflector
[NASA-TM-85874] 11 p1757 N84-21471
Infrared emission associated with chemical reactions on Shuttle and SIRTF surfaces
[NASA-TM-85875] 12 p1921 N84-22515
Far-IR spectroscopy of the galactic center: Neutral and ionized gas in the central 10 pc of the galaxy
[NASA-CR-166510] 13 p2070 N84-23411
Detection of shocked atomic gas in the Kleinmann-Low nebula
[NASA-TM-85967] 16 p2574 N84-26523
Studies of low-mass star formation with the large deployable reflector
[NASA-TM-85960] 21 p3524 N84-32328
HOLLENBAUGH, D. D.
Evaluation of ride quality prediction methods for helicopter interior noise and vibration environments
[NASA-TP-2261] 10 p1549 N84-20155
HOLLENBERG, G. W.
Contribution to the 6th annual report on special purpose materials for magnetically confined fusion reactors: Solid breeder materials
[DE84-008181] 15 p2411 N84-25470
HOLLIDAY, J.
Scaling studies of efficient Raman converters
[AD-A130382] 01 p0086 N84-10560
HOLLIG, K.
A singular free boundary problem
[AD-A136325] 09 p1373 N84-18967
HOLLIGAN, P.
Ocean Color Working Group report to ESA Observation Advisory Committee
[ESA-BR-20] 23 p3785 N84-34003
HOLLINGER, J.
Remote sensing of the marginal ice zone during Marginal Ice Zone Experiment (MIZEX) 83 23 p3772 N84-33910
HOLLINGER, J. P.
A comparison of SMMR (Scanning Multichannel Microwave Radiometer) and airborne microwave measurements during GOASEX (Gulf of Alaska experiment)
[AD-A134514] 07 p1008 N84-16534
Determination of sea surface temperature with N-ROSS (Navy-Remote Ocean Sensing System)
[AD-A143563] 22 p3627 N84-32984
Millimeter wave radiometric images of the marginal ice zone 23 p3772 N84-33912
HOLLINGER, S. E.
Meteorological models for estimating phenology of corn
[E84-10160] 17 p2709 N84-27252
Costs of measuring leaf area index of corn
[E84-10162] 17 p2710 N84-27254
HOLLINGWORTH, D.
Graphics language, version 2.2
[AD-A142438] 20 p3272 N84-30772
HOLLINS, R. C.
A compact frequency-stable pulsed CO-2 laser
[AD-A143216] 22 p3600 N84-32806
HOLLMANN, H.
Dipole arrays with sector-shaped patterns for applications in mobile radio communications
[FI-454-TBR-34] 19 p3009 N84-29076
HOLLOWAY, F. W.
Nova laser alignment control system
[DE84-010992] 20 p3194 N84-30288
Strategies of design, development and activation of the Nova control system
[DE84-013075] 22 p3600 N84-32801
HOLLOWAY, P. H.
Electrically controlled coloration of materials
[AD-A133420] 06 p0801 N84-15223
Ohmic contacts, irradiation effects, and thin film growth of GaAs and Al sub 1-x Ga sub x As
[NASA-CR-173257] 09 p1393 N84-19096
Ohmic versus rectifying contacts of Au to n-GaAs by ion sputtering 09 p1393 N84-19097
Magnetron sputtered gold contacts on n-GaAs 09 p1393 N84-19098
Effect of ion sputtering on the interface chemistry and electrical properties of Au/n-GaAs (100) Schottky contacts 09 p1393 N84-19099
Effect of ion sputtering on interface chemistry and electrical properties of an GaAs (100) Schottky contacts 09 p1393 N84-19100
HOLLOWAY, R. W.
Novette pulse-power-system description
[DE83-018185] 06 p0918 N84-15968
Design and construction of large capacitor banks
[DE84-002790] 07 p0998 N84-16472
HOLLOWAY, W. A.
Processor-controlled DAC-20 (digital-to-analog converter)
[AD-A132260] 04 p0526 N84-13460
HOLLWEG, J. V.
Coronal heating by waves 03 p0466 N84-13068
HOLLY, M.
Cold working and annesling effects on the creep and rupture resistance of the oxide-dispersion-strengthened alloy MA754
[AD-A141438] 19 p2993 N84-28969
HOLM-KENNEDY, J. W.
A rectangular gate merged MOSBJT
[AD-A132450] 04 p0525 N84-13453
The BJT-JFET: A novel merged device structure
[AD-A132373] 04 p0525 N84-13454
Numerical modeling of the MOSBJT
[AD-A132351] 04 p0525 N84-13456
Effects of simultaneous phosphorus and arsenic diffusions on emitter push and dislocation generation
[AD-A132331] 04 p0612 N84-14042
HOLM, D. D.
Stability of planar multifluid plasma equilibria by Arnold's method
[DE84-004332] 11 p1655 N84-20801
Generalized Poisson brackets and nonlinear Liapunov stability: Application to reduced MHD
[DE84-009973] 20 p3302 N84-30972
Lyapunov stability conditions for a relativistic multifluid plasma
[DE84-010004] 20 p3303 N84-30973
HOLM, R.
Physical and chemical investigations on real catalyst surfaces
[BMFT-FB-T-83-273] 13 p1958 N84-22729
HOLM, R. G.
In-flight absolute radiometric calibration of the thematic mapper
[E84-10044] 04 p0552 N84-13637
In-flight absolute radiometric calibration of the thematic mapper
[E84-10064] 06 p0865 N84-15633
In-flight absolute radiometric calibration of the Thematic Mapper 13 p2004 N84-23002
In-flight absolute radiometric calibration of the Thematic Mapper 20 p3208 N84-30383
JT15D simulated flight data evaluation
[NASA-CR-172322] 22 p3536 N84-32387
HOLM, S.
Implication and equivalence among statistical inference rules
[CTH-MATH-1983-21] 07 p1068 N84-16937
HOLMAAKER, K.
An optimal control problem in the study of liver kinetics
[CTH-MATH-1984-10] 19 p3064 N84-29439
HOLMAN, G. D.
Acceleration of runaway electrons and Joule heating in solar flares
[NASA-TM-86112] 15 p2428 N84-25583
HOLMAN, L. K. B.
Detection of horizontal bars as a function of length, separation, eccentricity and frequency of temporal modulation: Possible applications to helicopter acquisition
[BAE-BT-11288] 13 p2021 N84-23105
HOLMBERG, A.
Low temperature rate controller
[AD-D011029] 19 p2982 N84-28897

HOLMBERG, K.
Friction in low speed lubricated rolling and sliding contacts
[VTT-16] 20 p3199 N84-30318
HOLMES-SIEDLE, A.
Radiation effects in the Joint European Torus Experiment: Guidelines for preliminary design
[R857/2] 06 p0919 N84-15971
HOLMES, B. J.
Geometries for roughness shapes in laminar flow
[NASA-CASE-LAR-13255-1] 03 p0320 N84-12092
Natural laminar flow experiments on modern airplane surfaces
[NASA-TP-2256] 17 p2599 N84-26660
An experimental and theoretical investigation of deposition patterns from an agricultural airplane
[NASA-TP-2348] 23 p3689 N84-33379
HOLMES, J.
Assessment of the NASA Flight Assurance Review Program
[NASA-CR-173418] 13 p2066 N84-23401
Targeting geothermal exploration sites in the Mount St. Helens area using solid mercury surveys
[DE84-012547] 20 p3229 N84-30519
HOLMES, J. A.
Inverse plasma equilibria
[DE84-000723] 04 p0607 N84-14008
Numerical simulation of the plasma current quench following a disruptive energy loss
[DE84-003151] 07 p1077 N84-17004
Nonlinear interaction of tearing modes: A comparison between the Tokamak and the reversed field pinch configurations
[DE84-010582] 18 p2934 N84-28606
Reliability of initial-value MHD calculations of Tokamak disruptions
[DE84-013600] 22 p3659 N84-33193
HOLMES, J. C.
Real-time in-situ targeting of geoplasma domains for purposes of chemical injection and artificial triggering of equatorial spread-F 05 p0639 N84-14206
HOLMES, J. K.
Engineering evaluations and studies. Volume 1: Exhibit A
[NASA-CR-171724] 06 p0794 N84-15174
Engineering evaluations and studies. Volume 2: Exhibit B, part 1
[NASA-CR-171725] 06 p0794 N84-15175
Engineering evaluations and studies. Volume 2: Exhibit B, part 2
[NASA-CR-171726] 06 p0794 N84-15176
Engineering evaluations and studies. Volume 3: Exhibit C
[NASA-CR-171727] 06 p0794 N84-15177
HOLMES, J. T.
Solar molten salt electric experiment
[DE84-006340] 15 p2363 N84-25178
HOLMES, M.
Wind and solar powered turbine
[NASA-CASE-NPO-15496-1] 13 p2007 N84-23018
Data acquisition and processing in sea-level test beds 16 p2453 N84-25730
HOLMES, M. H.
Cochlear mechanics: Analysis for a pure tone
[AD-A136438] 09 p1386 N84-19055
HOLMES, N. C.
Aluminum as a global high-pressure equation-of-state standard
[DE84-000153] 04 p0501 N84-13287
Raman spectroscopy of shocked water
[DE84-002468] 07 p0972 N84-16295
HOLMES, R.
Squeeze-film damping of rotor-dynamic systems 08 p1168 N84-17610
HOLMES, R. B.
Application of pseudoinversion to linear system identification with discrete measurements
[AD-A132283] 04 p0521 N84-13422
HOLMGREN, D. E.
Laser techniques for extreme-ultraviolet spectroscopy
[DE83-014834] 02 p0227 N84-11486
HOLMGREN, G.
Experimental and theoretical aspects of the generation of MHD waves by chemical releases in the ionosphere 05 p0639 N84-14206
HOLMGREN, M.
Terminal work in the process industry: Experience in a time perspective. Part 2: A few years after the installation
[FOA-C-56039-H2-PT-2] 08 p1141 N84-17422
HOLROYD, S. G.
NRIO microcomputer system
[CSIR-T/SEA-8134] 04 p0577 N84-13805
HOLROYD, T. J.
Acoustic emission: A brief introduction to some of its uses in the aero engine industry
[PNR-90172] 13 p1933 N84-22571
HOLSDEPPE, D.
Wind energy concentration within vortex flow fields and its utilization for the generation of energy, phase 1
[BMFT-FB-T-83-157] 05 p0700 N84-14591
HOLST, J.
Analysis and programming for electromagnetic applications
[AD-A142313] 19 p3009 N84-29071
HOLST, J. A.
Evaluation of a biaxial test fixture
[AD-A134845] 08 p1171 N84-17629
HOLST, T. L.
Numerical computation of transonic flow governed by the full-potential equation 06 p0839 N84-15469
Numerical optimization design of advanced transonic wing configurations
[NASA-TM-85950] 18 p2792 N84-27718
Comparison of the full potential and Euler formulations for computing transonic airfoil flows
[NASA-TM-85983] 21 p3324 N84-31094
HOLSTE, J. C.
Thermodynamic properties for natural gas binaries
[PB83-228403] 01 p0157 N84-11031
HOLSTI, N.
Measurements of the solar 160 min oscillation at the Metsaehovi radio research station in 1980-1982 and comparison with the results at the Crimean Astrophysical Observatory
[REPT-S-138] 09 p1416 N84-19268
Improved computer programs for microwave Sun observation at the Metsaehovi radio research station
[REPT-S-140] 09 p1417 N84-19269
A computer program for point-surface microwave continuum observation
[REPT-S-141] 15 p2320 N84-24925
HOLT, B.
Observations of internal waves in the Gulf of California by SEASAT SAR 07 p0990 N84-16414
HOLT, B. D.
Oxygen-18 measurements in the assessment of natural and anthropogenic sulfur in the environment
[DE84-000566] 04 p0560 N84-13690
HOLT, B. J.
An improved ion drift meter
[AD-A140043] 15 p2283 N84-24707
HOLT, B. L.
Tropical cyclone report, January - December 1983
[AD-A137836] 11 p1687 N84-21000
HOLT, D. A.
Aggregating available soil water holding capacity data for crop yield models
[E84-10161] 17 p2710 N84-27253
HOLT, D. L.
Electromyographic analysis of the peroneous longus during bicycle ergometry across work load and pedal type
[AD-A132550] 05 p0712 N84-14666
HOLT, H. E.
Reports of planetary geology program, 1983
[NASA-TM-86246] 13 p2073 N84-23431
Mars-analog studies in Wright and Victoria Valleys, Antarctica 14 p2163 N84-23951
HOLT, J. B.
Fabrication of SiC, Si3N4 and AlN combustion synthesis
[DE84-001766] 05 p0660 N84-14339
Synthesis of refractory materials
[DE84-011045] 20 p3156 N84-30041
HOLT, M.
The changing scene in computational fluid dynamics
[AD-A138661] 13 p1989 N84-22914
HOLT, R. D.
Nd: YAG laser improvements and modifications
[DE84-009024] 15 p2340 N84-25044
HOLT, R. J.
Prospect of polarized targets in electron rings
[DE84-014684] 23 p3823 N84-34245
HOLT, R. P.
The Enforcer aircraft program: A lower-cost alternative weapon system
[AD-A141564] 19 p2955 N84-28728
HOLT, R. T.
Trace elements and residual elements in superalloys 23 p3705 N84-33487
HOLT, S.
Manual for implementing a Shared Time Engineering Program (STEP) September 1980 through September 1983
[PB84-144260] 12 p1804 N84-21765
HOLT, S. S.
Soft X-ray spectral observations of quasars and high X-ray luminosity Seyfert galaxies
[NASA-TM-85118] 04 p0619 N84-14082
Temperature and elemental abundances in the Abell cluster A 576 derived from X-ray observations
[NASA-TM-85103] 24 p3987 N84-35238
HOLTE, T. A.
Low-smoke, halogenfree ship-offshore/onshore cables with improved flame retardance and fire resistance 11 p1723 N84-21240
HOLTET, J.
Preliminary results from the Heating Rocket (HERO) project: In situ measurements of ionospheric modifications using sounding rockets 05 p0636 N84-14183
HOLTHIUS, J. T.
Critical current density of bronze-processed multifilimentary Nb-3Sn wires with magnesium addition to the matrix
[DE84-014579] 23 p3719 N84-33576
HOLTON, E. M.
Bone and calcium alterations during spaceflight 02 p0263 N84-11729
HOLTON, J. R.
Eddy: Mean flow interaction diagnostics
[AD-P002654] 11 p1690 N84-21019
HOLTRUP, G.
Evaluation and control of laser hazards 22 p3632 N84-33018
HOLTZ, B.
Portrait of the Max-Planck research organization and its institutes 03 p0458 N84-13015
HOLTZ, M. J.
International energy agency solar heating and cooling programme: Task 8, passive and hybrid solar low energy buildings 16 p2515 N84-26140
HOLTZ, R. D.
Analytical and experimental investigation of soil reinforcing
[AD-A134343] 07 p0985 N84-16383
HOLTZMAN, G. L.
Airsickness during Naval flight officer training: Fleet readiness squadrons
[AD-A138973] 14 p2185 N84-24095
HOLTZMAN, J. C.
The influence of sensor and flight parameters on texture in radar images 03 p0394 N84-12575
HOLUBOVA, J.
Use of radial hemolysis method in gel for detection of antibodies to Bunya virus Lednice (Turlock virus group) 17 p2741 N84-27403
HOLYER, R. J.
Principal components as a method for atmospherically correcting coastal zone color scanner data
[AD-P003124] 16 p2533 N84-26265
Ocean optical remote sensing capability statement
[AD-A140589] 17 p2721 N84-27321
HOLZAPFEL, G.
Preparation of a design study for the construction of a 2 million tons/annum commercial scale hydrogenation plant
[BMFT-FB-T-83-135] 03 p0405 N84-12652
HOLZHAUSER, P. J.
Improved techniques for data acquisition and analysis on X-ray diffraction equipment
[Y-2282] 23 p3750 N84-33774
HOLZNER, R.
The NMR laser: A nonlinear solid state system showing chaos 14 p2239 N84-24440
HOLZWORTH, G. C.
EPA (Environmental Protection Agency) complex terrain model development description of a computer data base from small hill impaction study no. 1, Cinder Cone Butte, Idaho
[PB84-161439] 14 p2182 N84-24072
HOLZWORTH, R. H.
Hy-wire and fast electric field change measurements near an isolated thunderstorm, appendix C
[NASA-TM-85072] 01 p0107 N84-10692
HOMA, J. M.
Ion beamlet steering for two-grid electrostatic thrusters
[NASA-CR-174671] 21 p3354 N84-31274
HOMAN, D. J.
Desktop computer graphics for RMS/payload handling flight design 12 p1871 N84-22196
HOMANN, K. H.
Growth of electrically charged soot particles in flames 15 p2291 N84-24751
HOMBACH, V.
Reduction of the strut radiation of reflector antennas
[FI-454-TBR-35] 16 p2482 N84-25918
HOMCE, G. T.
Electrical-shock prevention. Volume 4: Overhead-line contact fatalities
[PB84-102979] 08 p1207 N84-17868

HOMES, D. E.
LEC GaAs for integrated circuit applications
[NASA-CR-173267] 07 p1079 N84-17014
HOMES, H. E.
Effect of O2 on double-base propellant ignition
13 p1949 N84-22673
HOMMA, H.
Response of cracks in structural materials to short pulse loads
[AD-A131585] 02 p0231 N84-11519
Short pulse fracture mechanics
[AD-P003105] 16 p2467 N84-25810
HOMMA, T.
Improvement in quality of silicon-based amorphous films 21 p3477 N84-32041
HOMSY, G. M.
Thermocapillary flows and their stability: Effects of surface layers and combination
[NASA-CR-170962] 08 p1155 N84-17522
High Marangoni Number convection in a square cavity: Additional results
[AD-A144485] 24 p3901 N84-34701
HONBOONHERM, S.
Contextual classification of remotely sensed data
17 p2708 N84-27245
HONDA, I.
Experimental study of the naphtaline heat pipe
20 p3169 N84-30125
HONEA, R. B.
Estimation of small area populatons using remote sensing and other approaches
[DE84-003404] 08 p1178 N84-17678
HONERLAGE, B.
Optical bistability in CuCl 14 p2241 N84-24458
HONES, E. W., JR.
Plasma sheet behavior during substorms
[DE84-003833] 10 p1537 N84-20070
HONEY, R. C.
In situ characterization of seawater using a computerized suite of optical instruments 06 p0872 N84-15675
HONG, H.
The manufacturing process and the cold deployment test of an extendible nozzle made of C-103 niobium alloy
[AD-A144524] 24 p3884 N84-34608
HONG, H. K.
Nonlinear response and noise transmission of double wall sandwich panels 02 p0187 N84-11215
HONG, I. T.
Parameter measurement methods for interfacing hydraulic systems with microelectronic instruments and controllers
[AD-A144208] 24 p3902 N84-34710
HONG, J.
Phase and volumetric studies for methane/synthesis gas separations: The hydrogen-carbon monoxide-methane system
[PB84-214394] 21 p3375 N84-31417
X-ray diffuse scattering 22 p3682 N84-33341
HONG, S. K.
Large eddy interactions in curved wall boundary layers: Model and implications 17 p2666 N84-26998
HONG, S. S.
Model study of the atmospheric frontogenesis. 2: Theoretical model 24 p3956 N84-35047
HONG, T. H.
Pyramid methods in image analysis
03 p0426 N84-12796
HONG, Y. C.
On extending functional capabilities of cellular-logic devices for database management
24 p3959 N84-35067
HONGZHANG, C.
Acta armamentarii (selected articles)
[AD-A143904] 23 p3726 N84-33610
HONIG, E. M.
Progress in developing repetitive pulse systems utilizing inductive energy storage
[DE83-015167] 03 p0367 N84-12388
The 240-kA switch with potential application in electromagnetic-launch systems
[DE84-001174] 05 p0677 N84-14449
HONIG, J. M.
Transport properties of selected metal oxides
11 p1740 N84-21356
HONIGS, D. E.
A new method for obtaining individual component spectra from those of complex mixtures
[AD-A139262] 14 p2122 N84-23719
HONMA, H.
Random-choice solutions for weak spherical shock-wave transitions of n-waves in air with vibrational excitation
[UTIAS-253] 01 p0077 N84-10502
Random-choice solutions for two-dimensional and axisymmetric supersonic flows 20 p3168 N84-30115
HONMO, I.
Fluorescent discharge lamp
[NASA-TM-77456] 10 p1485 N84-19706
HONNORAT, Y.
Problems presented to engine builders by the recycling of metallic materials 23 p3704 N84-33482
HONODEL, C.
Time resolved measurement and analysis of the response of confined explosives to heat, impact and penetration
[DE84-002781] 07 p0981 N84-16358
HONSTETTER, K.
Technical applications of solar energy. Project photovoltaic systems and project selective coatings
[BMFT-FB-T-83-299] 12 p1844 N84-22025
HOOD, J. B.
Water resources data for New York, water year 1982. Volume 3: Western New York
[PB84-119544] 10 p1527 N84-20003
HOOD, R. C.
An image processing language
[AD-A135865] 09 p1368 N84-18928
HOOD, R. R.
Kevlar-49/epoxy case skirt structural fatigue strength
20 p3143 N84-29955
HOOG, T. W.
An approach to a standardized simulator data base
[AD-P003469] 21 p3511 N84-32244
HOOGENBOOM, L.
Research study of pressure instrumentation
[NASA-CR-171143] 21 p3405 N84-31599
HOOGENDOORN, P. J.
On a secure public-key cryptosystem
08 p1224 N84-17997
HOOGENDORN, R.
Information processing for use in the treatment of severely physically handicapped persons
20 p3264 N84-30711
HOOGLAND, W.
Trigger systems which could operate at a luminosity of 10/sup 33 cm(-2) to sec/sup -1
06 p0911 N84-15918
Detectors at 20 TeV and detector considerations for a high luminosity hadron-hadron machine
06 p0911 N84-15920
HOOGSTRATEN, J. A.
A survey of the Control system Analysis and Synthesis Program (CASPAR) package for Aerospace Research
[VTH-LR-336] 10 p1423 N84-19304
HOOGTERP, F. B.
Image acquisition and manipulation system
[AD-A138927] 13 p2028 N84-23153
HOOIE, D. T.
Critical issues in solid oxide fuel cell development
11 p1739 N84-21344
HOOK, W. R.
An alternate concept for expanding man's presence in space
[NASA-TM-84617] 06 p0794 N84-15172
HOOKANO, E., JR.
Water resources data for Utah, water year 1982
[PB84-120484] 09 p1340 N84-18756
HOOKS, J. T.
Pilot behavior models for LSO (Landing Signal Officer) training systems
[AD-A135823] 10 p1552 N84-20169
HOOSE, J.
Short-pulse short-wavelength optical probe for laser plasma
[DE84-008336] 14 p2230 N84-24375
HOOSE, W.
APU operational efficiency 03 p0335 N84-12181
HOOVER, D. L.
Geology of faults exposed in trenches in Crater Flat, Nye County, Nevada
[DE84-000181] 04 p0564 N84-13716
HOOVER, G. W.
Command flight path display, phase 1 and 2
[AD-A140870] 17 p2611 N84-26711
HOOVER, J. B.
Sea salt aerosol, atmospheric radon and meteorological observations in the western South Atlantic Ocean (February 1981)
[AD-A134792] 08 p1195 N84-17794
HOOVER, J. R.
A new engineering approach for cable in fire situations using halogenated polymers 11 p1726 N84-21259
HOOVER, P. A.
Real-time update of 2 H. F. (High Frequency) channel evaluation models by oblique sounding
[AD-A137556] 11 p1643 N84-20739
HOOVER, R. B.
Spectral slicing X-ray telescope with variable magnification
[NASA-CASE-MFS-25942-1] 07 p1089 N84-17084
The GOES X-ray imager feasibility demonstration
[PB84-111970] 09 p1319 N84-18614
HOOVER, S. A.
Further abbreviation of the machining schedule for producing surface-damage-free beryllium
[DOE/TIC-4500-REV-69] 06 p0814 N84-15297
HOOVER, W. G.
Applying molecular dynamics to fracture
[AD-P003104] 16 p2467 N84-25809
Disassembly of isochorically heated liquids
[DE84-009536] 19 p3108 N84-29747
HOPF, F. A.
Chaos in optical bistability 14 p2232 N84-24388
Fluctuations in optical bistability: Experiment with shot noise 14 p2232 N84-24392
Mirrorless intrinsic optical bistability due to the local field correction in the Maxwell-Bloch formulation
14 p2233 N84-24397
Routes to optical turbulence in a dispersive ring bistable cavity containing saturable nonlinearities
14 p2234 N84-24404
HOPFINGER, E. J.
Waves on vortex cores and their relation to vortex breakdown 03 p0326 N84-12128
HOPKE, P. K.
The application of multivariate source/receptor models to aerosol mass apportionment
[DE83-014592] 02 p0245 N84-11603
HOPKINS, D.
High gain free electron laser at ETA
[DE84-002001] 05 p0686 N84-14512
HOPKINS, D. A.
Nonlinear analysis for high-temperature composites: Turbine blades/vanes 21 p3421 N84-31699
HOPKINS, G. R.
Nuclear design of a very-low-activation fusion reactor
[DE83-017470] 03 p0448 N84-12949
Low-activation fusion-reactor design studies
[DE83-017688] 04 p0608 N84-14014
HOPKINS, J. R.
Optimization of engine power offtake by secondary power system design 03 p0335 N84-12177
HOPKINS, M. R.
Efficient editing of solid models by exploiting structural and spatial locality
[TM-46] 23 p3815 N84-34190
HOPKINS, R.
Monolithic F-16 uniform thickness stretched acrylic canopy transparency program
[AD-A140645] 17 p2606 N84-26694
HOPKINS, R. A.
One year of stars, provided by the IRAS cryogenic system 10 p1442 N84-19416
HOPKINS, S. W.
Cost/risk analysis for disk retirement, volume 1
[AD-A141978] 20 p3131 N84-29881
HOPKINS, T. S.
Discussion of the Ionian and Levantine Seas
[DE84-011562] 21 p3451 N84-31898
HOPKINS, W. G.
Solidification of Al-Pb alloys under microgravity in Texus-7, preliminary report 17 p2613 N84-26730
HOPKINSON, J. A.
Human factors aspects of C3 systems
[PP-119] 13 p2023 N84-23115
HOPKINSON, M. J.
The structural and aerodynamic behaviour of a semi-inflatable wing
[BU-297] 15 p2260 N84-24574
HOPPE, D. J.
High power K sub a -band transmitter for planetary radar and spacecraft uplink 22 p3572 N84-32625
HOPPE, G.
Aircraft over Steinberg (West Germany)
[REPT-5/1982] 10 p1424 N84-19316
HOPPEL, W. A.
Measurements of atmospheric aerosols: Experimental methods and results of measurements off the east coast of the United States
[AD-A130998] 02 p0248 N84-11626
HOPPER, A. T.
A critical review of the short crack problem in fatigue
[AD-A131349] 02 p0231 N84-11516
Creep fatigue of low-cobalt superalloys: Waspaloy, PM U 700 and wrought U 700
[NASA-CR-168260] 04 p0498 N84-13265
HORA, S. C.
Asymptotic relative efficiencies of the rank transformation procedure in randomized complete block designs
[DE84-010600] 22 p3649 N84-33134
HORAK, E.
The behavior of a slag base pavement structure at P39/1, Erasmia under heavy vehicle simulator loading
[RP/5/82] 11 p1639 N84-20716

HORAK, J. A.
Mechanical properties of types 304 and 316 stainless steel after long-term aging and exposure
[DE84-003325] 07 p0976 N84-16327
HORAK, W.
Techniques for integrated text and image processing and communication
[BMFT-FB-T-83-104] 02 p0302 N84-11985
HORAUD, P.
Machine intelligence research applied to industrial automation
[PB84-123348] 10 p1473 N84-19618
HORD, D. J.
Cognitive performance change during a 6-hour hike at low temperature in simulated rain, at controlled walking rates
[AD-A138358] 13 p2020 N84-23100
HORENSTEIN, M. N.
A probe for measuring spacecraft surface potentials using a direct-gate field effect transistor
[AD-A140024] 15 p2283 N84-24706
HORIMA, H.
Non-metallic optical cable with optical fiber catenary for long span aerial application 11 p1722 N84-21235
HORITA, K.
Low temperature fluorination of aerosol suspensions of hydrocarbons utilizing elemental fluorine
[AD-A139958] 15 p2287 N84-24721
HORIUCHI, S.
Human behavior 04 p0511 N84-13351
HORLER, D.
Evaluating LANDSAT-4 MSS and TM data
[E84-10157] 17 p2709 N84-27249
HORN, B. K. P.
Picking up an object from a pile of objects
[AD-A133631] 05 p0716 N84-14691
Extended Gaussian images
[AD-A135747] 09 p1389 N84-19073
Picking parts out of a bin
[AD-A139257] 14 p2187 N84-24106
HORN, D.
Remote sensing of the marginal ice zone during Marginal Ice Zone Experiment (MIZEX) 83
23 p3772 N84-33910
HORN, J. N.
Multimode radar signal processor integration facility
[AD-A130655] 01 p0065 N84-10424
HORN, L. H.
Atlas of Northern Hemisphere extratropical cyclone activity, 1958 - 1977
[PB83-225722] 01 p0110 N84-10712
HORN, W. H.
Electropositive bivalent metallic ion unsaturated polyester complexed polymer concrete
[DE84-011080] 20 p3146 N84-29979
HORN, W. J.
Design of a composite wing extension for a general aviation aircraft
[NASA-CR-173832] 22 p3534 N84-32377
HORNADY, R. S.
Review of the tandem mirror experiment-upgrade (TMX-U) machine-parameter-instrumentation system
[DE84-003243] 07 p1078 N84-17009
HORNBECK, D.
Power supply technology working group report IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A137525] 10 p1504 N84-19835
HORNBECK, L. J.
A hybrid silicon membrane spatial light modulator for optical information processing 12 p1905 N84-22408
HORNBOGEN, E.
The future of materials
[REPT-2/1982] 02 p0205 N84-11340
HORNE, K. D.
Eclipse mapping of accretion disks in cataclysmic binaries 04 p0618 N84-14080
HORNER, J. L.
Phase-only optical filter for use in an optical correlation system
[AD-D011093] 22 p3657 N84-33187
HORNER, V. M.
Morphology of fresh craters on Ganymede and the origin of pedestal craters 13 p2078 N84-23466
HORNING, J. J.
Preliminary report on the Larch shared language
[AD-A136117] 09 p1369 N84-18939
HORNING, R. J.
Related studies in long term lithium battery stability
23 p3736 N84-33676
HORNING, R. R.
Processing time using Datatrieve-11, clunks, and FORTRAN
[DE84-001706] 06 p0935 N84-16081
Multidomain, multirecord-type Datatrieve-11 databases
[DE84-001707] 08 p1241 N84-18110
HORNKOHL, J. O.
Measurement of spray combustion processes
11 p1609 N84-20530
HORNSEY, W. W.
New aircraft windshield applications using ion exchange glass
[AD-P003187] 17 p2590 N84-26600
HORNSTRA, F.
Comparative response of lead-acid and nickel-iron batteries to pulsed and constant-current loads
[DE83-017939] 03 p0368 N84-12395
Ragone characteristics of aqueous mobile batteries and their application in projecting ranges of electric vehicles
[DE83-014701] 03 p0404 N84-12642
Application features and considerations in advanced lead-acid and nickel/iron EV batteries
[DE83-017936] 04 p0528 N84-13472
Recent results from the National Battery Test Laboratory
[DE84-012110] 22 p3588 N84-32729
HORNUNG, E.
The hydraulic multiaxes vibrator: Its capabilities to simulate real mechanical environments and to verify aerospace structures 03 p0339 N84-12198
HORNUNG, H.
Transonic cryogenic test section for the Goettingen tube facility
[NASA-TM-77050] 07 p0959 N84-16219
HORNUNG, H. G.
The vortex skeleton model for three-dimensional steady flows 03 p0321 N84-12101
HORNUNG, U.
Nonlinear equation systems for parabolic differential equations and differential equation systems
16 p2540 N84-26305
HORNYAK, S.
Inherent problems in designing two-failure tolerant electromechanical actuators 15 p2348 N84-25088
HORONJEFF, R.
The detectability of repetitive, periodic impulses
[AD-A132744] 05 p0713 N84-14675
HOROWITZ, E.
Interaction between a shock-wave and a vortex flow
03 p0321 N84-12104
Precipitation in rapidly solidified Al-Mn alloys
[AD-A136128] 09 p1284 N84-18385
Design of office information systems
[AD-A136523] 09 p1404 N84-19170
AdaRel: A relational extension of Ada
[AD-A137108] 10 p1562 N84-20234
Programming productivity enhancement by the use of application generators
[AD-A137124] 10 p1562 N84-20235
An analysis of application generators
[AD-A137159] 11 p1708 N84-21131
Metastable phases of rapidly solidified Al-rich, Al-Fe alloys
[AD-A139598] 14 p2128 N84-23757
Programming productivity enhancement by the use of application generators
[AD-A143532] 22 p3640 N84-33080
HOROWITZ, J. M.
Gravitational study of the central nervous system
02 p0263 N84-11730
Set-point changes in hierarchically-arranged thermogenic systems 09 p1355 N84-18853
HOROWITZ, R.
Model reference adaptive control of mechanical manipulators 10 p1555 N84-20194
HORRIGAN, D. J., JR.
Verification of an altitude decompression sickness prevention protocol for Shuttle operations utilizing a 10.s psi pressure stage
[NASA-TM-58259] 18 p2899 N84-28392
Increase in whole-body peripheral vascular resistance during three hours of air or oxygen prebreathing
[NASA-TM-58261] 20 p3259 N84-30684
Pulmonary artery location during microgravity activity: Potential impact for chest-mounted Doppler during space travel
[NASA-TM-58262] 21 p3457 N84-31935
HORST, A. W.
Multi-dimensional, multiphase flow analysis of flamespreading in a stick propellant charge
13 p1948 N84-22663
Slotted stick propellant study
13 p1948 N84-22664
Multiphase flow analysis of the ballistic performance of an anomalous LOVA propellant mix
13 p1950 N84-22679
HORST, T. W.
Turbulent structure of stably stratified nocturnal slope flows
[AD-A140740] 17 p2734 N84-27378
HORSTRA, F.
Testing and evaluation of EV-1300 lead-acid modules for the hybrid vehicle application
[DE84-006718] 14 p2249 N84-24510
HORTON, D. G.
Argillic alteration associated with the Amethyst Vein System, Creede Mining District, Colorado
21 p3441 N84-31832
HORTON, E. H.
Nevada test site seismic-telemetry measurements
[DE84-000447] 04 p0564 N84-13719
HORTON, J.
Photographic memory: The storage and retrieval of data 18 p2843 N84-28053
HORTON, J. A.
Segregation and domain structure in rapidly solidified Ni3Al
[DE83-017188] 04 p0504 N84-13306
Laser window with annular grooves for thermal isolation
[DE84-011114] 21 p3410 N84-31625
HORTON, L. L.
Comparison of damage microstructures in neutron-irradiated vanadium and iron
[DE83-017189] 03 p0354 N84-12304
Swelling behavior of a simple ferritic alloy
[DE84-003162] 07 p0976 N84-16329
HORTON, R. C.
New developments in materials recycling by the US Bureau of Mines 23 p3704 N84-33480
HORTON, W.
Drift waves in rotating plasmas
[DE84-000391] 06 p0921 N84-15988
HORVAT, V.
Cloud seeding with TG-10 rockets
18 p2888 N84-28329
HORVATH, D.
Trends in exotic-atom research
[DE84-001679] 04 p0602 N84-13974
HORVATH, S. M.
Physiological adjustments to hemorrhage, altitude, and work
[AD-A137781] 11 p1695 N84-21057
HORWITZ, C. M.
Submicron structures technology and research
22 p3683 N84-33353
HORWITZ, J. L.
Plasma and magnetospheric research
[NASA-CR-171031] 15 p2368 N84-25205
Plasma and magnetospheric research
[NASA-CR-171080] 19 p3053 N84-29374
Plasma and magnetospheric research
[NASA-CR-171157] 23 p3827 N84-34275
HOSEA, J. C.
Graphite-ceramic RF Faraday-thermal shield and plasma limiter
[DE84-010960] 20 p3163 N84-30086
HOSENBALL, S. N.
National Aeronautics and Space Act of 1958, as amended and related legislation
[GPO-24-491] 03 p0460 N84-13032
HOSHINO, K.
Cation self-diffusion in Fe2O3
[DE84-009152] 20 p3310 N84-31025
HOSHINO, T.
VISSR observation of the solar eclipse in rapid-interval limited scan mode 09 p1347 N84-18802
HOSHIZAKI, T.
In vitro seed to seed growth on clinostats
09 p1356 N84-18863
HOSKING, F. M.
Liquid metal infiltration of an aluminum alloy into a packed column of B4C particles
[DE84-012136] 20 p3158 N84-30055
Sodium compatibility of refractory metal alloy/304L braze joints
[DE84-012877] 21 p3368 N84-31364
HOSKING, J. R. M.
Estimation of the generalized extreme-value distribution by the method of probability weighted moments
[AD-A141696] 19 p3093 N84-29642
HOSKINS, B. J.
On the role of the transient eddies in maintaining the seasonal mean circulation 12 p1855 N84-22086
Some properties of transient phenomena in the extra-tropical region and their importance in the seasonal mean flow 12 p1859 N84-22112
HOSKINS, J. K.
Test of the inverse square law of gravity at distances of 5cm and 1m 04 p0593 N84-13914
HOSMAN, R. J. A. W.
Accuracy of visually perceived roll angle and roll rate using an artificial horizon and peripheral displays
[VTH-LR-377] 10 p1552 N84-20171

HOSOKAWA, M.
Experimental studies on plasma confinement in Nagoya bumpy torus
[IPPJ-655] 10 p1580 N84-20355
HOSOYAMA, K.
Self-correction coil: Operation mechanism of self-correction coil
[DE83-016324] 03 p0367 N84-12392
HOSSAIN, M.
Long-time states of inverse cascades in the presence of a maximum length scale 17 p2666 N84-26999
HOSSEINI, S. M.
Kinematics of the structure and morphology during surface reactions between transition metals and molecular hydrogen 06 p0816 N84-15317
HOSSFELD, F.
Parallel processors: Aspects of interaction between calculator architecture and algorithms 16 p2549 N84-26360
HOTHEM, L. D.
Test and demonstration of Macrometer (TM) model V-1000 interferometric surveyor
[PB83-239103] 03 p0402 N84-12631
HOTOP, H. J.
Flight tests for a strapdown system (MSS): The results of a special flight test
[ESA-TT-818] 03 p0330 N84-12153
Regression analysis technique for air data sensor calibration with an inertial navigation system
[DFVLR-MITT-84-03] 18 p2791 N84-27716
HOTSUR, Y. L.
Mechanical-property characterization of an electroslag-cast valve body of CF8M composition
[DE84-002253] 05 p0655 N84-14309
HOTZ, A. F.
Linearized dynamical model for the NASA/IEEE SCOLE configuration
[NASA-CR-172394] 22 p3542 N84-32423
HOU, J. W.
Shape optimal design and free boundary value problems 08 p1154 N84-17516
HOU, T. H.
A theoretical study of resin flows for thermosetting materials during prepreg processing
[NASA-CR-172442] 23 p3724 N84-33596
HOUCHINS, J. P.
Kinetic and spectroscopic studies of cytochrome b-563 in isolated cytochrome b/f complex and in thylakoid membranes
[DE83-017982] 04 p0571 N84-13760
HOUCK, C. W.
Electrochemical etching of titanium-alloy castings
[DE84-000244] 04 p0501 N84-13286
Metallographic examinations of type 304 stainless steel (heat 9T2796) tested in high-temperature uniaxial and multiaxial experiments
[DE84-010637] 18 p2814 N84-27866
HOUCK, J. R.
On 3He bolometer systems
[NASA-CR-175325] 06 p0846 N84-15520
Abundances in galactic H2 regions, 3: G25.4-0.2, G45.5+0.06, M8, S159 and DR22
[NASA-TM-85962] 17 p2774 N84-27616
Long wavelength photoconductive detectors for airborne and orbital infrared astronomy
[NASA-CR-166586] 19 p3026 N84-29192
HOUDEVILLE, R.
Effects of unsteadiness on turbulent boundary layers 06 p0838 N84-15457
HOUGHTON, D. D.
Regional scale simulation of atmospheric structure using VAS data 24 p3929 N84-34869
Cloud and ice in the planetary scale circulation and in climate
[NASA-CR-173992] 24 p3990 N84-35244
HOUGHTON, E.
An assessment of the reliability of edge connectors
[ERA-82-22] 13 p1985 N84-22888
HOUGHTON, E. G.
Translators between CADD and section 5 of the ANSI Y14.26M standard 12 p1871 N84-22192
HOUGHTON, R. A.
Deforestation measured by LANDSAT: Steps toward a method
[DE83-016645] 04 p0554 N84-13652
Test of the use of LANDSAT imagery to detect changes in the area of forest in the tropics
[DE84-004444] 08 p1179 N84-17680
HOUGHTON, R. C., JR.
Comparing software development methodologies for Ada (trade name): A study plan
[PB84-178029] 17 p2755 N84-27491
HOUGHTON, W. W.
Characterization of cumulative damage in composites during service 01 p0033 N84-10210
HOUK, R. S.
Relation of vertical intensity profiles for neutral atom lines to analyte atomization behavior in inductively coupled plasmas
[DE84-014126] 22 p3659 N84-33194
HOULSBY, G. T.
An implementation of Watson's algorithm for computing 2-dimensional Delaunay triangulations
[QUEL-1509/83] 15 p2391 N84-25345
HOULT, D. P.
Lubrication and support of a single piston ring
[DE84-004368] 10 p1502 N84-19818
HOUNAM, D.
A microwave time transmission system
[ESA-TT-782] 16 p2482 N84-25916
HOUSE, A. W.
Physical processes in fluids
[NASA-CR-170990] 12 p1814 N84-21827
HOUSE, L.
Quality assurance of heat-fused polyethylene plastic pipe joints, phase 2
[PB84-104942] 08 p1168 N84-17608
HOUSE, T. J.
A candidate hypothesis for the generation of quasi-biennial variations in sea level pressure 02 p0252 N84-11652
HOUSER, M. J.
Analysis and testing of a new method for drop size measurement using laser scatter interferometry
[NASA-CR-174636] 21 p3405 N84-31595
HOUSLEY, R. M.
Lunar sample analysis
[NASA-CR-171772] 11 p1758 N84-21476
Lunar sample analysis
[NASA-CR-171771] 11 p1758 N84-21477
The chemistry of micrometeoroids (A0187-1) 15 p2276 N84-24669
HOUSTON, A. G.
Preliminary evaluation of TM for soils information 20 p3216 N84-30427
HOUSTON, J. E.
Understanding localized behavior in the Auger spectra of covalent systems such as graphite
[AD-A133924] 05 p0647 N84-14255
HOUSTON, P. L.
Interactions of vibrationally excited molecules with solid surfaces
[AD-A133449] 06 p0915 N84-15950
HOUSTON, W. H.
Electrochemically deposited cadmium electrode for sealed Ni-Cd cells 23 p3737 N84-33683
HOUTCHENS, B.
System for the management of trauma and emergency surgery in space
[NASA-CR-175439] 11 p1693 N84-21045
HOUTZ, M. D.
Differential scanning calorimeter data acquisiton system
[AD-A143118] 21 p3405 N84-31600
HOUWINK, R.
Results of a new version of the LTRAN2-NLR (LTRANV) for unsteady viscous transonic flow computations
[NLR-TR-81078-U] 03 p0374 N84-12434
Unsteady viscous transonic flow computations using LTRAN2-NLR code coupled with Green's lag-entrainment method
[NLR-MP-82052-U] 09 p1253 N84-18181
HOUZIAUX, L.
Catalogue of stellar ultraviolet fluxes. A compilation of absolute stellar fluxes measured by the Sky Survey Telescope (S2/68) aboard the ESRO satellite TD-1 15 p2423 N84-25558
An estimate of V348 Sgr effective temperature 24 p3978 N84-35201
HOVANEC, J. W.
Nonlinear least-squares fitting of first-order rate coefficients comparison between the Gauss-Seidel method and Swain's kore program
[AD-A139080] 13 p2029 N84-23157
HOVANESIAN, J. D.
Development of shearography for nondestructive testing of highway structure
[PB84-187244] 22 p3565 N84-32577
HOVATTER, W. R.
Optimization of aircraft seat cushion fire blocking layers
[NASA-TM-85430] 01 p0006 N84-10037
HOVEL, H. J.
High-efficiency multi-colored photovoltaic cells
[PB84-200575] 22 p3619 N84-32932
HOVER, G. L.
Analysis of US Coast Guard HU-25A visual and radar detection performance
[AD-A133380] 06 p0784 N84-15138
Evaluation of U.S. Coast Guard forward-looking airborne radars
[AD-A142417] 20 p3174 N84-30156
HOVERTON, R. J.
OMEGA documentation
[DE84-007014] 14 p2206 N84-24239
HOVESTADT, D.
Iron charge states observed in the solar wind 03 p0473 N84-13112
Survey of He(+)/He(2+) abundance ratios in energetic particle events 03 p0474 N84-13117
HOVEY, P. W.
Flaw detection reliability criteria. Volume 1: Methods and results
[AD-A142001] 20 p3199 N84-30320
HOVIS, W. A.
LANDSAT-4 Thematic Mapper calibration and atmospheric correction 20 p3209 N84-30384
HOWARD, A. D.
Quantitative and experimental modelling of sapping networks 13 p2084 N84-23500
HOWARD, A. Q.
Transient response from thin dyke in the Earth for loop excitation 23 p3776 N84-33941
HOWARD, B. D.
Multi-family update to the passive solar construction handbook 16 p2516 N84-26149
HOWARD, D. D.
Mirror antenna dual-band lightweight mirror design
[AD-A138113] 12 p1806 N84-21776
HOWARD, F. S.
Liquid hydrogen polygeneration system and process
[NASA-CASE-KSC-11304-1] 19 p3001 N84-29017
HOWARD, J. H., JR.
Auditory induction of discrete tones in signal detection tasks
[AD-A135502] 08 p1227 N84-18019
The effect of structured contextual tones on psychophysical frequency discrimination
[AD-A135433] 09 p1383 N84-18903
Pattern-directed attention in uncertain frequency detection
[AD-A135905] 10 p1547 N84-20142
Perception of acoustic transients
[AD-A138201] 18 p2929 N84-28571
HOWARD, K. L.
Calculation of forced response to base excitation using experimentally derived modal participation factors 03 p0340 N84-12205
HOWARD, P.
Mechanical systems conditioning monitoring technology working group report IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability Maintainability) study
[AD-A137524] 10 p1504 N84-19834
HOWARD, P. W.
Evaluating organizational change through improved understanding of managerial schemata 17 p2771 N84-27596
HOWARD, R.
The ISPM unified radio and plasma wave experiment 09 p1262 N84-18237
HOWARD, R. A.
Associations between coronal mass ejections and interplanetary shocks 03 p0474 N84-13121
HOWARD, R. D.
Human factors in space telepresence
[NASA-CR-173420] 13 p2023 N84-23119
HOWARD, T. C.
The predicted impact of linear roof apertures on the energy performance of office buildings 16 p2514 N84-26133
HOWARD, W. A.
Effects of surface area and pore size upon liquid chromatographic fractionations of polystyrene oligomers using ethylphenyl derivatized silicas
[DE83-014632] 01 p0051 N84-10327
HOWARD, W. M.
Inertial effects in laser-driven ablation
[DE83-016941] 03 p0380 N84-12478
Inertial effects in laser-drive ablation
[DE84-000071] 04 p0542 N84-13566
HOWARTH, I. D.
Observations of extensive variability in the ultraviolet spectrum of xi Per 24 p3977 N84-35190
Preliminary results of coordinated optical UV and X-ray observations of magnetic white dwarfs in binaries 24 p3980 N84-35216
IUE observations of the X-ray binary A0538 66: Recent results on a remarkable recurrent 24 p3981 N84-35221
HOWDEN, D. G.
Development of low cost filler materials for welding high strength steels
[AD-A141724] 19 p2994 N84-28973

HOWDEN, M. G.
The role of the tetrapropylammonium template in the synthesis of zeolite ZSM-5
[CSIR-CENG-413] 04 p0493 N84-13236
HOWE, D. C.
Energy efficient engine high-pressure turbine detailed design report
[NASA-CR-165608] 19 p2965 N84-28788
Energy efficient engine: Turbine intermediate case and low-pressure turbine component test hardware detailed design report
[NASA-CR-167973] 19 p2965 N84-28789
HOWE, M. S.
Self-sustained oscillations of a shock wave interacting with a boundary layer on a supercritical airfoil
[NASA-CR-175336] 07 p0945 N84-16131
HOWE, R. D.
Advanced diagnostics for reacting flows
13 p1943 N84-22637
HOWE, R. E.
CAMDAS (CAMAC data-acquisition system)
[DE83-014907] 01 p0124 N84-10810
HOWE, R. G.
Preliminary program manager's guide to Ada
[AD-A140347] 16 p2565 N84-26457
A study of the feasibility of duplicating JAMPS applications software in the Ada programming language
[AD-A140884] 17 p2753 N84-27477
HOWE, S. E.
Guide to available mathematical software
[PB84-171305] 16 p2545 N84-26337
HOWELL, G. A.
Development of V/STOL methodology based on a higher order panel method
[NASA-CR-166491] 01 p0004 N84-10024
HOWELL, G. C.
The plane stress/strain analysis of non-homogeneous continua by the boundary integral equation method
[TR-821S] 04 p0587 N84-13880
HOWELL, H. E.
Matrix-isolation photoacoustic spectroscopy
[DE84-001967] 05 p0651 N84-14277
HOWELL, H. R.
Development of a contact heat exchanger for a constructable radiator system
[NASA-CR-171730] 08 p1155 N84-17523
HOWELL, J. R.
Effect of operating temperature on the HWB model for solar-collector design
[DE84-900248] 16 p2519 N84-26172
Least-squares smoothing of direct-exchange in zonal analysis
[DE84-002612] 22 p3595 N84-32770
HOWELL, K. A. C.
Three-dimensional, periodic halo orbits in the restricted three-body problem 06 p0793 N84-15167
HOWELL, L.
Image dissector camera system study
[NASA-CR-171759] 11 p1656 N84-20806
HOWELL, L. A.
A NDT ignition delay predictive tool
20 p3143 N84-29958
HOWELL, L. W.
The generalized Euler-Mascheroni constants
[NASA-TP-2264] 06 p0906 N84-15880
A stochastic model for photon noise induced by charged particles in multiplier phototubes of the space telescope fine guidance sensors
[NASA-TP-2337] 16 p2556 N84-26398
HOWELL, R. H.
Intense positron beams: Linacs; preworkshop copy
[DE83-012941] 01 p0146 N84-10958
Generation of monoenergetic positrons
[DE83-015535] 03 p0440 N84-12687
HOWELL, R. R.
The plumes of IO: A detection of solid sulfur dioxide particles
[NASA-CR-175414] 12 p1922 N84-22523
HOWELL, T. A.
A statistical approach for determining subsurface thermal structure from sea surface temperature in the northeast Pacific Ocean
[AD-A132204] 05 p0711 N84-14658
HOWELL, W. C.
The effect of information display format on multiple-cue judgment
[AD-A142884] 21 p3459 N84-31941
Optional stopping performance under graphic and numeric CRT formatting
[AD-A143274] 22 p3586 N84-32712
HOWELL, W. E.
Heads up display
[NASA-CASE-LAR-12630-1] 18 p2795 N84-27733
Volumetric fuel quantity gauge
[NASA-CASE-LAR-13147-1] 22 p3598 N84-32787
HOWELLS, M. R.
X-ray holographic microscopy experiments at the Brookhaven synchrotron light source
[DE84-004289] 10 p1499 N84-19796
Possibilities for X-ray holography using synchrotron radiation
[DE84-010390] 18 p2844 N84-28063
HOWERTON, Y. F.
Closing the gap between R and D and application in academe to better support government and industry
[AD-P002761] 13 p2052 N84-23308
HOWES, S.
Streamflow modelling
[AD-A141261] 18 p2866 N84-28198
HOWES, W. L.
Preliminary experiments on phase conjugation for flow visualization
[NASA-TM-83766] 21 p3498 N84-32169
HOWETT, G. L.
Size of letters required for visibility as a function of viewing distance and observer visual acuity
[PB83-250589] 04 p0574 N84-13782
HOWEY, J. M.
Robust flight controllers
[AD-A138425] 12 p1773 N84-21560
HOWLE, D.
OTS 2: Five years of thermal testing on a satellite in a geostationary orbit 10 p1446 N84-19446
HOWLETT, J. J.
UH-60A Black Hawk engineering simulation program. Volume 1: Mathematical model
[NASA-CR-166309] 19 p2968 N84-28806
HOY, G. R.
Feasibility studies of Conversion Electron Moessbauer Spectroscopy (CEMS) of iron-doped InP
[AD-A142463] 20 p3309 N84-31014
HOYNG, P.
Microwave and X-ray observations of delayed brightenings at sites remote from the primary flare locations
[NASA-TM-86140] 22 p3680 N84-33326
HOYT, E.
An estimate of HF/VHF surface-wave communication link reaches in the West German forest environment
[AD-A131262] 01 p0067 N84-10441
HRASTAR, J. A.
Apparatus for and method of compensating dynamic unbalance
[NASA-CASE-GSC-12550-1] 18 p2848 N84-28082
HREBIEN, L.
Blood flow measurements under high-G conditions: Early prediction of Gz tolerance
[AD-A134653] 08 p1200 N84-17823
Factors affecting human tolerance to sustained acceleration
[AD-A138520] 13 p2021 N84-23101
HREHA, M. A.
A dynamic model for aircraft poststall departure
01 p0012 N84-10077
HRON, J.
A microprocessor-based control system for the Vienna PDS microdensitometer 18 p2841 N84-28037
HRUBESH, L. W.
Pure rotational spectroscopy of SO2 using fix line far-infrared lasers
[DE84-001427] 07 p0972 N84-16301
HRUBY, R. J.
Flight test results of the strapdown ring laser gyro tetrad inertial navigation system
[NASA-TM-84358] 02 p0176 N84-11157
HRUSA, W. J.
Global existence and asymptotics in one-dimensional nonlinear viscoelasticity
[AD-A136367] 09 p1374 N84-18970
The cauchy problem in one-dimensional nonlinear viscoelasticity
[AD-A141507] 19 p3084 N84-29576
Global existence of classical solutions to the equations of motion for materials with fading memory
[AD-A141607] 19 p3085 N84-29584
On a class of quasilinear partial integrodifferential equations with singular kernels
[AD-A141700] 19 p3087 N84-29595
HRUSCHKA, P.
The software engineering environment project model (PROMOD) 05 p0722 N84-14737
HSI, S. W.
Electromagnetic coupling to an infinite wire through a small aperture of arbitrary shape
[AD-A130425] 01 p0062 N84-10407
Electromagnetic coupling between a conducting body and an aperture in an infinite conducting plane
[AD-A138394] 12 p1898 N84-22361
Computer programs for electromagnetic coupling between a conducting body and an aperture in an infinite conducting plane
[AD-A142975] 21 p3386 N84-31491
HSIA, J. J.
Retroreflectance MAP (Measurement Assurance Program) service for coefficient of luminous intensity
[PB84-164938] 15 p2408 N84-25457
HSIA, Y. C.
An experimental investigation of an underexpanded rectangular jet ejector 23 p3688 N84-33374
HSIAO-EN, L.
An estimation method of vertical diffusion parameters in the mesoscale range
[AD-A136498] 09 p1345 N84-18787
HSIAO, C. C.
Energy absorption by polymer crazing
[NASA-CR-173275] 07 p0978 N84-16335
Propagation of crazing in viscoelastic media
[NASA-CR-173244] 07 p1015 N84-16583
Highly parallel processing of relational databases
[AD-A137961] 12 p1877 N84-22231
Time dependent quasifracture nucleation and propagation 15 p2349 N84-25097
HSIAO, D. K.
The implementation of a multi-backend database system (MDBS). Part 4: The revised concurrency control and directory management processes and the revised definitions of inter-process and inter-computer messages
[AD-A140874] 17 p2750 N84-27453
HSIAO, J. K.
A FORTRAN computer program to compute the radiation pattern of an array-fed paraboloid reflector
[AD-A131060] 02 p0209 N84-11363
HSIAO, M. Y.
One-dimensional transport code for field-reversed configurations
[DE84-007449] 15 p2411 N84-25477
HSIE, E. Y.
Frontogenesis in a moist atmosphere
[PB84-104066] 08 p1193 N84-17779
Frontogenesis in a moist atmosphere
10 p1542 N84-20106
HSIEH, C. C.
Testament of general boundary conditions and point-wise state variable constraints in optimum design for static and dynamic response
[PB84-192749] 20 p3204 N84-30356
HSIEH, C. Y.
Design and implementation of a reentrant page editing processor 24 p3959 N84-35066
HSIEH, S. J.
Clustering and ordering in 3-5 alloys
[AD-A131785] 03 p0452 N84-12974
HSIEH, W. H.
Nitramine propellant ignition under rapid gas loading conditions 13 p1950 N84-22677
Nitramine propellant crack tip ignition and crack propagation of a burning sample under rapid pressurization
[AD-A141246] 18 p2811 N84-27848
HSU, C. F.
Studies of statistical techniques to evaluate weather modification. Volume 1: Reports of OSET
[PB84-182906] 20 p3248 N84-30620
HSU, C. J.
Interfacial tension between water and selected superheated liquids by quadrupole oscillations of drops
[AD-A136996] 10 p1455 N84-19502
HSU, D. K.
Measurements of ultrasonic scattering from near-surface flaws
[DE83-017693] 03 p0431 N84-12827
Ultrasonic 3-D reconstruction of inclusions in solids using the inverse Born algorithm
[DE83-018082] 04 p0595 N84-13928
HSU, D. S. Y.
Shock-initiated decomposition of nitramines with laser diagnositcs 21 p3372 N84-31401
HSU, I. C.
Image compression: A 2-dimensional run-length coding 13 p2030 N84-23162
HSU, J. Y.
Density variation due to wave heating in Tokamak plasmas
[DE84-009402] 20 p3305 N84-30993
HSU, M.
Hierarchical database decomposition: A technique for database concurrency control
[AD-A134356] 07 p1084 N84-17052
HSU, M. T. S.
Vinyl styrylpyridines and their copolymerization with bismaleimide resins
[NASA-CASE-ARC-11429-1-CU]
07 p0979 N84-16341

Characterization and degradation studies on synthetic polymers for aerospace application
[NASA-CR-136597] 21 p3355 N84-31284
HSU, P. Y.
Development of an engineering-scale nuclear test of a solid-breeder fusion-blanket concept
[DE83-016861] 01 p0151 N84-10992
HSU, S.
Applications of texture analysis for rock types discrimination, phase 2
[AD-A142268] 19 p3042 N84-29303
HSU, S. C.
Critical dynamics for continuous rapid solidification processing
[AD-A134257] 07 p0974 N84-16313
HSU, S. L.
Radiolysis of resist polymers. 1: Poly(methyl-alpha-haloacrylates) and copolymers with methylmethacrylate
[AD-A131864] 03 p0356 N84-12315
HSU, S. M.
Friction and wear characteristics of molecular compound classes from lubricating base oils. Part 1: Separation and chemical characterization
[PB84-167741] 18 p2820 N84-27904
HSU, T. B.
Effects of surface area and pore size upon liquid chromatographic fractionations of polystyrene oligomers using ethylphenyl derivatized silicas
[DE83-014632] 01 p0051 N84-10327
HSU, T. M.
Study of metal-insulator transition
24 p3955 N84-35044
HSU, Y. H.
Superconducting magnets for gyrotron tubes
[DE83-012815] 02 p0299 N84-11962
HSUEH, K. L.
Electrocatalysis of fuel cell reactions: Investigation of alternate electrolytes
[NASA-CR-173261] 10 p1529 N84-20013
HSUEH, Y.
Research in oceanography
[AD-A139890] 15 p2373 N84-25237
HU, C.
Low-input-harmonics power supplies
[AD-A130337] 01 p0071 N84-10462
HU, F. P.
Image matching using generalized Hough transforms
03 p0394 N84-12569
HU, G.
The 60-GHz gyrotron development program
[DE83-012922] 02 p0214 N84-11402
Infrared monitoring of gyrotron windows
[DE84-004442] 10 p1499 N84-19799
60 GHz gyrotron development program
[DE84-006606] 13 p1987 N84-22899
HU, H.
Thermomechanical processing and texture development in Ni-Cr-Mo and Mn-Mo-B armor steels
[AD-A142352] 20 p3153 N84-30020
HU, I.
A uniform bound for the tail probability of Kolmogorov-Smirnov statistics
[AD-A141761] 19 p3093 N84-29643
HU, L.
Cut-off rate calculations for the outer channel in a concatenated cooling system
[NASA-CR-173612] 16 p2541 N84-26312
HU, L. W.
Optimal design of rotating disk with temperature gradient 15 p2313 N84-24877
HU, T. C.
Triangulations (tilings) and certain block triangular matrices
[DE84-003579] 07 p1064 N84-16902
HU, T. Y.
Siloxane modifiers for epoxy resins
[AD-A136782] 10 p1467 N84-19582
HU, W. L.
Miniature charpy-impact test results for the irradiated ferritic alloys HT-9 and modified 9Cr-1Mo
[DE83-016935] 03 p0354 N84-12300
HU, Y.
Molecular basis for local compositions in liquid-mixture models
[DE83-016604] 04 p0495 N84-13250
HUANG, A.
Considerations involved in the design of an optical digital computer 14 p2239 N84-24444
HUANG, C. C.
Far infrared studies on superconductors and heat-capacity studies on liquid crystals
[DE84-001105] 04 p0613 N84-14046
Analysis of electromagnetic backscatter from an inlet cavity configuration
[AD-A133626] 05 p0669 N84-14400
Far-infrared studies on superconductors and heat-capacity studies on liquid crystals
[DE84-001123] 05 p0756 N84-14957
HUANG, C. Y.
High-altitude observations of an intense inverted-V event
[NASA-CR-174468] 01 p0104 N84-10678
Currents in the Earth's magnetotail
[NASA-CR-174467] 01 p0104 N84-10679
Cockpit voice recognition program at Princeton University 02 p0169 N84-11109
Relaxation in spin glasses: Similarities and differences from ordinary glasses
[DE84-001719] 04 p0508 N84-13330
Structural studies at elevated pressure and reduced temperatures using synchrotron radiation: Application to Ce.8La.1Th.1
[DE84-001793] 06 p0924 N84-16007
Role of pressure in understanding the anomalous superconductivity in europium (molybdenum)6(sulfur)8 and (TMTSF)2FSO3
[DE83-017292] 06 p0925 N84-16012
Anomalous surface impedance in reentrant ferromagnetic superconductors
[DE84-012634] 22 p3664 N84-33230
HUANG, D. Y.
Selection procedures for optimal subsets of regression variables
[AD-A131567] 02 p0285 N84-11869
HUANG, F. H.
Fracture behavior of unirradiated HT-9 and modified 9Cr-1Mo welds
[DE83-016021] 01 p0098 N84-10636
Use of subsized specimens for evaluating the fracture toughness of irradiated materials
[DE84-001500] 05 p0693 N84-14553
Use of the disk bend test to assess irradiation performance of structural alloys
[DE84-001484] 06 p0806 N84-15255
Fracture toughness of ferritic alloys irradiated in HFIR
[DE84-004594] 10 p1462 N84-19547
Ring ductility of irradiated Inconel 706 and Nimonic PE16
[DE84-010397] 20 p3155 N84-30034
Fracture toughness of irradiated HT-9
[DE84-013935] 23 p3719 N84-33578
HUANG, H.
Effect of operating temperature on the HWB model for solar-collector design
[DE84-900248] 16 p2519 N84-26172
Approximating multiple ITO integrals with Band limited processes
[AD-A140417] 16 p2550 N84-26364
HUANG, J. H.
Heat checking in the contact zone of a face seal: A three-dimensional model of a single moving asperity
[AD-A130756] 01 p0079 N84-10513
HUANG, J. S.
Correlation structure in iterated Farlie-Gumbel-Morgenstern distributions
[AD-A137055] 10 p1571 N84-20293
Stability analysis of elastic-plastic rectangular plate with opening 24 p3958 N84-35062
HUANG, K. C.
A stochastic method in hydraulic design of open channels
[PREPRINT-790] 12 p1817 N84-21845
A solution to the problem of the flow around a circular cylinder between two parallel plates with the Monte Carlo method
[PREPRINT-791] 12 p1817 N84-21846
The probabilistic analysis on the influence of roughness to depth and velocity in open channels
[PREPRINT-792] 12 p1817 N84-21847
HUANG, K. H.
Doppler lidar signal and turbulence study
[NASA-CR-170976] 08 p1163 N84-17574
HUANG, K. Y.
Detection of bright spots in seismic signal using pattern recognition techniques
[AD-A136210] 09 p1346 N84-18793
HUANG, N. E.
Non-Gaussian statistical models of surface wave fields for remote sensing applications
17 p2715 N84-27284
HUANG, P. N.
A simplified method of evaluating aircraft handling qualities using a pilot transfer function model
[GU-AERO-8302] 15 p2264 N84-24595
HUANG, R.
Small continuous wave (CW) HF chemical laser
[AD-A144322] 24 p3908 N84-34756
HUANG, S. C.
Investigation of rapidly solidified Ni3Al-based alloys
[AD-A144174] 24 p3883 N84-34604
HUANG, S. M.
Computational analyses of unsteady flow past airfoils with flapping and/or pitching motion
01 p0002 N84-10013
HUANG, S. S.
Fast algorithms for improved speech coding and recognition
[AD-A137569] 11 p1643 N84-20740
HUANG, S. Y.
Increased metabolism and dead space as components of ventilation at high altitude
[AD-A130827] 06 p0887 N84-15766
Variable inhibition by falling CO2 of hypoxic ventilatory response in man
[AD-A130658] 06 p0887 N84-15768
Increase of cold tolerance in cotton plant (Gossypium hirsutum L.) by mepiquat chloride
[E84-10088] 10 p1521 N84-19959
HUANG, T. T.
Cavitation inception observations on axisymmetric headforms with turbulence stimulators
[AD-A133517] 06 p0844 N84-15506
HUANG, X.
International aviation (selected articles)
[AD-A137617] 11 p1599 N84-20473
HUANG, X. Y.
Resonance fluorescence of many interacting adatoms at a metal surface
[AD-A129866] 01 p0038 N84-10239
Resonance fluorescence of a two-level atom near a metal surface
[AD-A130277] 01 p0141 N84-10928
Resonance fluorescence and photon trapping of two atoms on a metallic surface
[AD-A134512] 07 p1072 N84-16964
Laser-induced surface migration via surface plasmons
[AD-A136436] 09 p1321 N84-18633
Resonance fluorescence of a two-level atom near a metal surface. 2: Case of a strong driving field
[AD-A138275] 12 p1914 N84-22469
HUANG, Y. K.
A 2-dimensional numerical study of detonation propagation between munitions by means of shock initiation
[AD-A133680] 05 p0661 N84-14346
A numerical study of shock initiation of composition-b by high-speed impact of small steel projectiles
[AD-A139629] 15 p2303 N84-24821
HUANG, Y. N.
Some preliminary results of ionospheric slab thickness observations at Lunping 24 p3956 N84-35045
A further study on the spatial correlation of the total electron content at pairs of subionospheric points located at the Crest Zone of the Equatorial Anomaly
24 p3956 N84-35046
HUAZI, Y.
Influence of temperature on the Delta K sub th and da/dN of LY-12CS aluminum alloy 20 p3160 N84-30067
HUBA, J. D.
Long wavelength limit of the E X B instability
[AD-A129812] 01 p0105 N84-10681
Nonlinear mode coupling theory of the lower-hybrid-drift instability
[AD-A135538] 08 p1187 N84-17734
Anomalous transport in current sheets
[AD-A136030] 09 p1378 N84-19002
Rayleigh-Taylor instability in the presence of a stratified shear layer
[AD-A138544] 13 p2011 N84-23043
Long wavelength limit of interchange instabilities
[AD-A138943] 13 p2011 N84-23047
Long wavelength limit of the current convective instability
[AD-A139172] 14 p2228 N84-24356
On the linear stability of two-dimensional barium clouds. 1: The inviscid case
[AD-A141284] 18 p2880 N84-28285
Influence of microturbulence on early time HANE structure
[AD-A141244] 18 p2933 N84-28597
Influence of collisions on the magnetized ion-ion instability
[AD-A141464] 19 p3101 N84-29696
HUBBARD, C.
Standard X-ray diffraction power patterns: Section 20 - data for 71 substances
[PB84-155191] 14 p2244 N84-24475
HUBBARD, D. C.
The measurement of C-5A aircrew performance
[AD-P003268] 18 p2907 N84-28433
HUBBARD, G. B.
STS-5 (Space Transport System-5) fish kill, Kennedy Space Center, Florida
[AD-A132958] 05 p0700 N84-14595

HUBBARD, H. H.
The effects of blade mounted vortex generators on the noise from a MOD-2 wind turbine generator
[NASA-CR-172292] 08 p1227 N84-18017
Acoustic tests of the MOD-O/5A wind turbine rotor with two different ailerons
[NASA-CR-172427] 21 p3491 N84-32120
HUBBARD, L. E.
Water resources data for Oregon, water year 1982. Volume 1: Eastern Oregon
[PB84-164326] 14 p2171 N84-24005
HUBBARD, L. L.
Water resources data for Oregon, water year 1982. Volume 1: Eastern Oregon
[PB84-164326] 14 p2171 N84-24005
Water resources data for Oregon, water year 1982. Volume 2: Western Oregon
[PB84-164334] 14 p2171 N84-24006
Water resources data for Oregon, water year 1982. Volume 2: Western Oregon
[PB84-164334] 14 p2171 N84-24006
HUBBARD, R.
Plasma current and conductivity effects on hose instability
[AD-A137549] 11 p1729 N84-21282
HUBBARD, R. W.
Digital microwave transmission tests at the Pacific Missile Test Center, Pt. Mugu, California
[PB83-251454] 05 p0671 N84-14412
Exercise in the heat. Effects of saline or bicarbonate infusion
[AD-A137194] 11 p1696 N84-21061
HUBBARTT, J. E.
Heterogeneous diffusion flame stabilization: Constant density results 13 p1952 N84-22689
Interference drag in a simulated wing-fuselage juncture
[NASA-CR-3811] 20 p3126 N84-29853
HUBBELL, M. G.
Energy management for crew escape systems 20 p3141 N84-29945
HUBENY, I.
Stellar Spectra and Their Interpretation. 1st conference of the Subcommission No. 2 15 p2421 N84-25540
A computer program for calculating non-LTE model stellar atmospheres 15 p2423 N84-25554
HUBER, C.
The Schuler principle: A discussion of some facts and misconceptions
[EUT-83-E-136] 10 p1427 N84-19330
HUBER, E.
Micro-reactions of metal contacts on various types of GaAs surfaces
[AD-A139412] 14 p2242 N84-24464
HUBER, F.
Temperature distributions, boiling and dry-out behind local blockages 06 p0843 N84-15495
HUBER, M.
A principal rotor without joints and pillows, made of fiber materials, for dynamic systems of future helicopters
[MBB-UD-384-83-O] 16 p2562 N84-26440
HUBERSON, S.
Simulation of turbulent flows with a point vortex method 03 p0324 N84-12119
HUBERT, R. R.
Fundamental mode rectangular waveguide system for Electron-Cyclotron Resonant Heating (ECRH) for tandem mirror experiment-upgrade (TMX-U)
[DE84-009085] 15 p2322 N84-24940
HUBERT, W. E.
Forecasters handbook for the Middle East/Arabian Sea
[AD-A134312] 07 p1039 N84-16739
HUBERTZ, J. M.
Nearshore current model workshop summary
[AD-A134702] 08 p1195 N84-17791
HUBEY, H. M.
Multiple scattering from a random and inhomogeneous slab 06 p0863 N84-15624
HUBICKYJ, E. O.
The effect of opacity on theoretical models of RR Lyrae stars 04 p0619 N84-14081
HUBIN, B. F.
A wide band 44 GHz printed circuit conformal array
[AD-P003404] 19 p3014 N84-29108
HUCHRA, J. P.
Combined ultraviolet studies of astronomical sources
[NASA-CR-175234] 08 p1242 N84-18121
Observational and theoretical studies of rich clusters with multiple subcondensations
[NASA-CR-173618] 16 p2575 N84-26528
HUCK, F. O.
Image-plane processing for improved computer vision 12 p1904 N84-22404
HUDDLESON, S. A.
Transient evoked potential in a critical event detection task
[AD-A141335] 18 p2900 N84-28397
HUDDLESTUN, P. F.
The neogene stratigraphy of the Central Florida Panhandle 21 p3441 N84-31833
HUDGENS, C. R.
Rigid indented cylindrical cathode for X-ray tube
[DE84-011093] 20 p3180 N84-30204
HUDGENS, G. A.
Risk-taking performance of military personnel: Sex differences and practice effects
[AD-P003262] 18 p2906 N84-28429
HUDGINS, H.
Computational modeling of aerodynamic heating for XM797 nose cap configurations
[AD-A133684] 05 p0627 N84-14126
HUDGINS, J. W.
Stability and control over the supersonic and hypersonic speed range 01 p0021 N84-10135
HUDGINS, W. A.
MPP disk subsystem
[NASA-CR-175227] 15 p2388 N84-25325
HUDSON, C. I.
Design analysis of an aluminum-air battery for vehicle operations: Transportation systems research
[DE83-014488] 01 p0163 N84-11071
HUDSON, C. L.
Energy-efficient automobiles for the future
[DE84-000600] 04 p0617 N84-14073
HUDSON, C. M.
Pressure system recertification at NASA-Langley Research Center
[NASA-TM-85733] 04 p0543 N84-13576
HUDSON, D. M.
Effects of a negative G strap on restraint dynamics and human impact response
[AD-A138642] 13 p2024 N84-23121
HUDSON, E. D.
Dual arc penning ion source gas flow experiments
[DE84-011637] 21 p3495 N84-32151
HUDSON, H. G.
F-14 scale model measurements. Part 1: External response
[DE84-008201] 15 p2258 N84-24562
HUDSON, H. S.
Solar Irradiance Variations on Active Region Time Scales
[NASA-CP-2310] 17 p2778 N84-27635
Facular limb-darkening functions for irradiance modeling 17 p2778 N84-27638
HUDSON, J. A.
Global wiring strategy for IC and PC routing
[DE83-009934] 02 p0215 N84-11412
HUDSON, R. F.
A horizontal range versus depth solution of sound source position under general sound velocity conditions using the Lloyd's mirror interference pattern
[AD-A134097] 05 p0742 N84-14875
HUDSON, T. E.
Low thrust bipropellant engine development 20 p3136 N84-29912
HUDSON, W. D.
Photo interpretation key to Michigan land cover/use
[E84-10048] 04 p0553 N84-13641
Interpreting Michigan forest cover types from color infrared aerial photographs
[E84-10097] 12 p1828 N84-21917
Aerial photography for ecological site mapping 14 p2169 N84-23990
HUEBLER, J. E.
Medium- and high-pressure sonic leak pinpointing
[PB83-228361] 01 p0086 N84-10557
HUEBNER, G. L.
Radar analyses of mesoscale meteorological phenomena during the AVE/VAS correlation field experiment 24 p3932 N84-34889
HUEBNER, G. L., JR.
Crop moisture estimation over the southern Great Plains with dual polarization 1.66 centimeter passive microwave data from Nimbus 7
[E84-10163] 17 p2710 N84-27255
HUEBNER, K.
Laser light scattering at the POSEIDON plasma focus device 10 p1584 N84-20384
HUEBNER, K. H.
Silicon nitride: A ceramic material with outstanding resistance to thermal shock and corrosion
[NASA-TM-77067] 07 p0978 N84-16336
HUEGEL, H.
Model calculations for a CO2 mixing laser with screen nozzle
[DFVLR-FB-83-41] 15 p2339 N84-25039
Phenomenology of plasma engine cathodes at high current rates and low pressures
[NASA-TM-77729] 24 p3866 N84-34502
HUEHNERFUSS, H.
The modification of the modulation transfer function by sea slicks measured by L-band radar 23 p3780 N84-33971
HUERTA, M. A.
Numerical and analytical studies of steady detonation waves with expansion losses
[AD-A142601] 20 p3184 N84-30232
HUESCHEN, R. M.
Evaluation of a total energy-rate sensor on a transport airplane
[NASA-TP-2212] 03 p0332 N84-12164
Reconfigurable multivariable control law for commercial airplane using a direct digital output feedback design
[NASA-TM-85759] 09 p1257 N84-18206
Flight test results for the Digital Integrated Automatic Landing Systems (DIALS): A modern control full-state feedback design 11 p1618 N84-20589
HUET, M.
On the relationships between radar backscattering coefficient and vegetation canopy characteristics 23 p3768 N84-33882
HUETHER, W.
Development of high temperature ceramic parts for vehicular gas turbines
[BMFT-FB-T-84-006] 15 p2301 N84-24812
HUETINK, J.
Experimental verification of constitutive equations for plasticity under biaxial, cyclic and nonradial loading conditions
[REPT-5011202-81-1] 17 p2625 N84-26798
HUETTIG, M.
Acoustic damping by microcondensate 07 p1070 N84-16952
HUETTMANN, H. J.
Study report on a modular photovoltaic power supply system for space application
[BMFT-FB-W-84-010] 19 p2983 N84-28904
HUETTNER, W.
Torsion characteristics of isotropic and carbon fiber reinforced carbons
[REPT-35] 02 p0189 N84-11226
HUEY, H.
The 60-GHz gyrotron development program
[DE83-012922] 02 p0214 N84-11402
Analysis of the output mode from 60 GHz, 200 kW pulsed and CW gyrotrons
[DE84-004586] 10 p1497 N84-19785
First 200 kW CW operation of a GHz gyrotron
[DE84-004573] 10 p1498 N84-19794
Infrared monitoring of gyrotron windows
[DE84-004442] 10 p1499 N84-19799
60 GHz gyrotron development program
[DE84-006606] 13 p1987 N84-22899
HUFF, F. A.
Studies of statistical techniques to evaluate weather modification. Volume 1: Reports of OSET
[PB84-182906] 20 p3248 N84-30620
HUFF, H.
Measures for materials conservation in aero-engine construction 23 p3702 N84-33468
HUFF, J. R.
Fuel cells for transportation applications
[DE84-003969] 09 p1310 N84-18564
HUFF, L. A.
Embedded information transfer technology assessment
[AD-A142649] 21 p3391 N84-31518
HUFF, R. G.
Simplified combustion noise theory yielding a prediction of fluctuating pressure level
[NASA-TP-2237] 09 p1386 N84-19049
Low frequency noise in a quiet, clean, general aviation turbofan engine
[NASA-TM-83520] 10 p1575 N84-20320
A theoretical prediction of the acoustic pressure generated by turbulence-flame front interactions
[NASA-TM-83587] 16 p2553 N84-26383
Analysis of the effect on combustor noise measurements of acoustic waves reflected by the turbine and combustor inlet
[NASA-TM-83760] 21 p3491 N84-32122
HUFF, R. L.
Low frequency electric and magnetic noise along the auroral field lines
[NASA-CR-173641] 17 p2727 N84-27358
HUFFER, F.
Variability orderings related to coverage problems on the circle
[AD-A143364] 22 p3648 N84-33130
HUFFERD, W. L.
Solid propellant nonlinear constitutive theory extension
[AD-A139957] 15 p2304 N84-24823

HUFFERED, W. L.
Propellant nonlinear constitutive theory extension: Preliminary results
[AD-A133364] 06 p0812 N84-15287
HUFFINGTON, N. J., JR.
Response of structural panels to air blast
15 p2316 N84-24902
Revisions to the PETROS 4 shell response code
[AD-A140268] 16 p2502 N84-26059
Boundary condition and strain-rate effects on the response of blast-loaded beams
[AD-A140428] 16 p2502 N84-26061
HUFFMAN, D. J.
A proposed RF-technology R/D plan for the United States
[DE84-000643] 04 p0522 N84-13434
HUFFMAN, J. C.
Reactions of metal-metal multiple bonds. Part 14: Synthesis and characterization of triangulo-W3 and Mo2W-oxo capped alkoxide clusters. Comproportionation of M-M triple bonds, sigma(2)pi(4) and d(o) Metal-oxo groups: M triple bond M + M triple bond O yields M3(micron 3-O)
[AD-A141067] 19 p2987 N84-28930
HUFFMAN, J. K.
Vortex flap flow reattachment line and subsonic longitudinal aerodynamic data on 50 deg to 74 deg Delta wings on common fuselage
[NASA-TM-84618] 04 p0480 N84-13160
Low-speed investigation of effects of wing leading- and trailing-edge flap deflections and canard incidence on a fighter configuration equipped with a forward-swept wing
[NASA-TM-85795] 17 p2600 N84-26667
HUFFMAN, J. P.
Status tracking system for reports
22 p3672 N84-33276
HUFFMAN, M. R.
Boundary behavior of harmonic functions
02 p0283 N84-11857
HUFFMAN, P. R.
Recycling the kinetic energy of an automobile
[DE83-004201] 06 p0851 N84-15551
HUFFMAN, R. T.
Preliminary guide to the onsite identification and delineation of the wetlands of Alaska
[AD-A142091] 19 p3042 N84-29299
HUFFORD, G. A.
The use of burst transmission to increase communication range: A feasibility study
[PB84-111400] 08 p1147 N84-17467
HUFFORD, H. M.
Naval applications for Remotely Piloted Vehicles (RPV's)
[AD-A143826] 23 p3693 N84-33405
HUFNAGEL, H.
On the genesis of hydrocarbons in the German Alpine foreland
[BMFT-FB-T-83-103] 02 p0250 N84-11637
Feasibility study of advanced optical techniques for ocean color measurement
[MBB-R3700/292] 12 p1837 N84-21974
HUFNAGEL, W.
Key to aluminium alloys. Designations, compositions, trade names of aluminium materials, first edition
[ISBN-3-87017-160-X] 10 p1458 N84-19522
HUGGETT, Q. J.
King's Trough Flank: Geological and geophysical investigations of its suitability for high-level radioactive waste disposal
[IOS-166] 20 p3299 N84-30950
HUGGINS, A. W.
SCPP (Sierra Cooperative Pilot Project) forecasting support, volume 1
[PB84-107911] 08 p1194 N84-17782
HUGGINS, A. W. F.
Display-control compatibility in 3-D displays
[AD-A140640] 17 p2748 N84-27444
Objective speech quality evaluation of real-time speech coders
[AD-A141194] 18 p2829 N84-27959
HUGGINS, P. J.
Neutral carbon in the Egg Nebula (AFGL 2688)
[NASA-TM-84360] 16 p2574 N84-26518
HUGGINS, R. L.
Ultraviolet curable resin system for rapid runway repair
[AD-A130364] 01 p0016 N84-10104
Heat: Initiated furan resin for rapid runway repair
[AD-A140902] 17 p2611 N84-26713
HUGHES, B. M.
Manufacture of DPFC-DMS polymer in the SKG range
[NASA-CR-166276] 18 p2817 N84-27888
HUGHES, C. A.
Integration of flight test data into a real-time simulation
09 p1259 N84-18216
HUGHES, D. A.
Biaxial tension tests of HERF 304L stainless steel
[DE84-006205] 11 p1634 N84-20685
HUGHES, D. W.
Analysis of hydroxyl data from comet Austin 1982g
24 p3981 N84-35223
HUGHES, H. G.
Sensitivity of a lidar inversion algorithm to parameters relating atmospheric backscatter and extinction
[AD-A141565] 19 p3054 N84-29378
HUGHES, J. P.
A search for X-ray polarization in cosmic X-ray sources
[NASA-CR-173635] 17 p2781 N84-27857
HUGHES, J. T.
Dry chemical development: A model for the extinction of hydrocarbon flames
[AD-A137952] 11 p1628 N84-20656
HUGHES, M. E.
Pyrotechnic shock test and test simulation
10 p1508 N84-19873
HUGHES, P. C.
Space structure vibration modes: How many exist? Which ones are important?
[NASA-CR-173442] 17 p2615 N84-26738
Stability diagrams for a rigid gyrostat in a circular orbit
[UTIAS-TN-243] 17 p2671 N84-27023
HUGHES, P. S.
Recent advances in variable speed electrical generator systems for large wind turbines
[DE84-001833] 06 p0830 N84-15404
HUGHES, R. C.
Hole trapping, recombination, and space charge in irradiated Sandia oxides
[DE83-015212] 03 p0454 N84-12986
HUGHES, T.
Bioassay of particulate organic matter from ambient air
[PB83-239731] 02 p0267 N84-11754
HUGHES, T. J. R.
Element-by-element solution procedures for nonlinear structural analysis 21 p3420 N84-31694
HUGHES, T. P.
Beam propagation experimental study
[AD-A133310] 06 p0915 N84-15946
Toroidal self-field corrections to the linear dispersion relation for the negative mass instability in a modified betatron
[AD-A135940] 09 p1377 N84-18995
Modified betatron accelerator studies
[AD-A137508] 10 p1576 N84-20329
HUGHES, V. W.
Intense positron beams: Linacs; preworkshop copy
[DE83-012941] 01 p0146 N84-10958
HUGHES, W. J.
A study of geomagnetic pulsations using the AFGL (Air Force Geophysics Laboratory) magnetometer network
[AD-A140507] 16 p2526 N84-26217
HUGUENIN, R.
A case for olivine on Mars 13 p2087 N84-23520
HUGUS, M.
Manual and automated line generalization and feature displacement
[AD-A143250] 22 p3614 N84-32900
HUI, B.
Dynasty 2: A nonlinear implicit code for relativistic electron beam tracking studies
[AD-A131592] 03 p0432 N84-12829
Numerical and analytical studies of beam channel tracking
[AD-A139148] 14 p2222 N84-24332
HUI, D.
Interaction between local and overall buckling modes in axially stiffened cylindrical shells
[UTIAS-247] 09 p1328 N84-18674
HUI, J. Y. N.
Fundamental issues of multiple accessing
[AD-A136676] 10 p1481 N84-19675
HUI, W. H.
Bifurcation analysis of aircraft pitching motions near the stability boundary
[NASA-TM-85881] 08 p1097 N84-17137
HUIGIN, X.
The effects of non-metallic inclusions in steel on fatigue properties 20 p3160 N84-30070
HUIJBREGTS, W. M. M.
Corrosion of unalloyed steels in different alkaline solutions at high temperatures and under high pressures
[S/T-REPT-VOL-1-NO-1] 20 p3159 N84-30060
HUIJSER, R. H.
Investigation of multiple scattering contributions to the depolarization of light scattered by carbon dioxide and xenon in the critical region. Part 3: Comparison between theory and experimental results
[VDW-PUBL-287] 19 p3105 N84-29731
HUILAN, Q.
An investigation of the texture surface silicon solar cell
[AD-A134250] 07 p1026 N84-16646
HUILGOL, R. R.
Multiple limit point bifurcation for Fredholm operators of non-zero index
[AD-A141660] 19 p3086 N84-29589
HUISINGH, J. L.
Bioassay of particulate organic matter from ambient air
[PB83-239731] 02 p0267 N84-11754
HUISMAN, W. C.
Three image compression algorithms for Compression and Decompression of Imaging Sensor Signals (CADISS)
[NLR-MP-83027-U] 20 p3275 N84-30791
HULETT, L. D., JR.
Positron spectroscopy applied to the analysis of surfaces
[DE82-008836] 01 p0038 N84-10236
Generation of monoenergetic positrons
[DE83-015535] 03 p0440 N84-12887
Implications of heavy-ion-induced satellite X-ray emission. Part 2: Production of K and L X-rays by 0.9 to 2.6 MeV/u Ar ions in thick targets of V, Cu, Nb, Ta, and Pt
[DE83-015681] 03 p0453 N84-12982
HULIN, J. P.
Termination of cylindrical grooved optical cables
11 p1720 N84-21220
Cylindrical v-grooved non-metallic optical fibre cable
11 p1723 N84-21242
HULING, G.
An Ada (trademark) network: A real-time distributed computer system
[AD-P003423] 20 p3270 N84-30755
HULL-ALLEN, G.
Research study of pressure instrumentation
[NASA-CR-171143] 21 p3405 N84-31599
HULL, A. N.
Forecasters handbook for the Middle East/Arabian Sea
[AD-A134312] 07 p1039 N84-16739
HULL, D. R.
Ultrasonic velocity measurement using phase-slope cross-correlation methods
[NASA-TM-83794] 24 p3911 N84-34769
HULL, J. A.
Alternative transmission media for third-generation interface standards
[PB83-238345] 03 p0363 N84-12365
HULL, J. R.
Solar pond performance estimation, engineering design, and construction experience
[DE84-003992] 11 p1674 N84-20924
Magnetically confined kinetic-energy storage ring: A new fundamental energy-storage concept
[DE84-011531] 21 p3435 N84-31793
HULL, R. J.
Coherent laser radar remote sensing
[AD-A139448] 14 p2151 N84-23885
HULLIS, C. T.
Digital signal processing structures for VLSI
09 p1401 N84-19149
HULME, B. L.
Boolean computation of optimum hitting sets
[DE84-012920] 20 p3283 N84-30842
HULSTROM, R. L.
Review of potential satellite techniques for mesoscale mapping of insolation
[DE83-011998] 03 p0401 N84-12622
Meteorological/atmospheric effects on the performance of solar photovoltaic energy conversion devices
[DE84-000018] 11 p1674 N84-20927
HULTEN, G.
Airborne fallout monitoring
[FOA-A-40045-A3] 08 p1183 N84-17705
HULTGREN, E.
Current requirements on specifications for corrosion prevention 16 p2435 N84-25618
HULTON, V. N.
Productivity improvement in a purchase division: Evaluation of a Performance Contingent Reward System (PCRS)
[AD-A133589] 07 p1050 N84-16801
HULTQVIST, B.
Plasma Physics on auroral field lines: The formation of ion conic distributions
[NASA-CR-173683] 18 p2932 N84-28595
HUMENIK, F. M.
Flame radiation and liner heat transfer in a tubular-can combustor
[NASA-TM-83538] 04 p0485 N84-13188
Detailed fuel spray analysis techniques
15 p2291 N84-24747

HUMES, D. H.
Threshold kinetics of a solar-simulator-pumped iodine laser
[NASA-TP-2241] 08 p1163 N84-17575
Space debris impact experiment (S0001)
15 p2277 N84-24672
HUMMER-MILLER, S.
Application of Heat Capacity Mapping Mission data to regional geologic analysis for mineral and energy resource evaluation
[E84-10078] 07 p1021 N84-16625
HUMPELER, E.
Oxygen affinity of hemoglobin, 3 hours after passive increase in altitude from 400 to 1800 metres
[RAE-TRANS-2118] 22 p3630 N84-33004
HUMPHREY, J. A. C.
Generalized algebraic relation for predicting developing curved-channel flow with a k-epsilon model of turbulence
[DE83-009946] 01 p0080 N84-10520
Prediction of erosive wear by solid particles in a turbulent curved-channel flow
[DE83-012896] 01 p0081 N84-10524
Turbulent flow in passage around a 180 deg bend; an experimental and numerical study
[AD-A132845] 05 p0681 N84-14475
Developing turbulent flow in strongly curved passages of square and circular cross-section
[AD-A143279] 22 p3593 N84-32755
Developing turbulent flow in a 180(0) curved pipe and its downstream tangent
[DE84-013391] 22 p3595 N84-32767
HUMPHREY, J. D.
Measurement of lung function using the magnetometer system
[AD-A130841] 01 p0114 N84-10738
The use of a microcomputer system as an aid to classical and digital control system design and analysis
[AD-A132945] 05 p0720 N84-14718
HUMPHREYS, D. R.
Ultraviolet laser triggering of the 6 MV PBFA-2 gas switch
[DE84-014004] 23 p3755 N84-33802
HUMPHRIEYS, E. A.
Guidelines for composite materials research related to general aviation aircraft
[NASA-CR-3720] 02 p0187 N84-11218
HUMPHRIES, R.
Development of an improved protective cover/light block for multilayer insulation
[NASA-TM-82563] 06 p0809 N84-15269
HUMPHRIS, R. R.
Design study of magnetic eddy-current vibration suppression dampers for application to cryogenic turbomachinery
[NASA-CR-173273] 07 p1012 N84-16562
HUMPHRY, D. E.
Modulated voltage metastable ionization detector
[NASA-CASE-ARC-11503-1] 13 p2019 N84-23093
HUMPHRY, F. J.
Practical aspects of tuning a ringed RFQ
[DE84-011366] 20 p3175 N84-30163
HUND, T. D.
Stress production and relief in the gold/silicon eutectic die-attach process
[DE83-015230] 03 p0369 N84-12400
HUNDAL, M. S.
Mechanical signature analysis
10 p1505 N84-19843
Damped pneumatic spring as shock isolator: Generalized analysis and design procedure
10 p1515 N84-19916
HUNDLEY, N. H.
Ultra-high molecular weight silphenylene-siloxane polymers
[NASA-TP-2295] 10 p1464 N84-19564
HUNDLEY, T. A.
UH-60 shoulder harness lead-in strap failure analysis
[AD-A138014] 12 p1867 N84-22170
Energy-absorbing earcup engineering feasibility evaluation
[AD-A144179] 24 p3938 N84-34924
HUNDT, W.
A light assembly system of sections adaptable to sound or heat insulation, for numerous applications
[BMFT-FB-T-83-085] 02 p0288 N84-11889
HUNEIDI, F.
Device for determining frost depth and density
[NASA-CASE-NFS-25754-1] 18 p2839 N84-28018
HUNG, H. M.
Use of transformed LANDSAT data in regression estimation of crop acreages 17 p2708 N84-27246
HUNG, R. J.
Severe storm initiation and dvelopment from satellite infrared imagery and Rawlinsonde data
24 p3929 N84-34872
HUNG, Y. Y.
Development of shearography for nondestructive testing of highway structure
[PB84-187244] 22 p3565 N84-32577
HUNGER, K.
Spectral analysis of helium poor hot subdwarfs
24 p3976 N84-35181
HUNGERFORD, R. D.
Weather summaries for Coram Experimental Forest, Northwestern Montana: An international biosphere reserve
[PB84-182443] 20 p3248 N84-30615
HUNING, J. R.
Cloud cover typing from environmental satellite imagery. Discriminating cloud structure with Fast Fourier Transforms (FFT)
[NASA-CR-173727] 18 p2883 N84-28296
HUNIU, S.
Low heat loss laser combustion chamber
[AD-D011107] 22 p3600 N84-32799
HUNKINS, K.
Physical oceanography report STD data from drifting ice station Fram 1
[AD-A134244] 08 p1196 N84-17797
Canyon and slope processes study. Volume 2: Physical processes
[PB84-169499] 17 p2738 N84-27392
Arctic physical oceanography
[AD-A144596] 24 p3935 N84-34909
HUNN, B. D.
Status of the class A performance evaluation program
16 p2514 N84-26134
HUNNEMAN, R.
Exposure to space radiation of high-performance infrared multilayer filters and materials technology experiments (A0056) 15 p2277 N84-24678
HUNSAKER, D. B., JR.
Impact of vegetative hydrocarbon emissions on ambient ozone levels and control program development
[DE84-008515] 18 p2878 N84-28273
HUNSAKER, H. D.
The effect of aircraft age and flying hours on maintenance costs
[AD-A131534] 02 p0169 N84-11114
HUNSAKER, M.
Model compound studies of rigid rod aromatic heterocyclic polymer systems, the X-ray crystal structure of 2,6-diphenylbenzo (1,2-d; 5,4-d') diimidazole tetrahydrate, C2OH14N4. 4H2O, a model system for the study of polymer-water interaction in polybenzimidazoles
[AD-A135278] 08 p1137 N84-17393
HUNSINGER, B. J.
Investigation of high efficiency large TBW line acoustic wave convolvers
[AD-A135686] 09 p1387 N84-19056
HUNT, A. J.
Light-scattering studies of silica aerogels
[DE83-015412] 02 p0201 N84-11308
Transparent aerogels for low-conductance windows
16 p2517 N84-26157
HUNT, A. L.
Vacuum measurements on the tandem mirror experiment upgrade (TMX-U) fusion experiment
[DE83-017836] 03 p0448 N84-12946
Gas box control system for tandem mirror experiment upgrade
[DE84-003245] 07 p1078 N84-17008
HUNT, B. R.
Feasibility studies of optical processing of image bandwidth compression schemes
[AD-A138736] 13 p2043 N84-23254
HUNT, D. F.
Chemical ionization mass spectrometry: New methodology
[AD-A138037] 12 p1791 N84-21678
HUNT, E.
Performance in dual tasks
[AD-A138603] 14 p2186 N84-24096
A Unified Model of Attention and Problem Solving
[AD-A138787] 14 p2186 N84-24097
Using interactive computing to expand intelligence testing: A critique and prospectus
[AD-A141657] 19 p3072 N84-29489
HUNT, J.
Spacecraft/plasma interactions and their influence on field and particle measurements
[ESA-SP-198] 08 p1115 N84-17253
Spacelab data book
[ESA-BR-14] 09 p1273 N84-18315
HUNT, J. E.
Energy transfer in real and artificial photosynthetic systems
[DE84-007278] 15 p2378 N84-25275
HUNT, J. J.
First European Space Mechanics and Tribology Symposium
[ESA-SP-196] 09 p1294 N84-18454
Environmental and thermal control systems for space vehicles
[ESA-SP-200] 10 p1439 N84-19396
International Geoscience and Remote Sensing Symposium (IGARSS) 84. Remote sensing: From Research Towards Operational Use, volume 1
[ESA-SP-215-VOL-1] 23 p3764 N84-33857
The International Geoscience and Remote Sensing Symposium (IGARSS) 84. Remote sensing: From research towards operational use, volume 2
[NASA-CR-173978] 23 p3777 N84-33946
Protein Single Crystal Growth Under Low Gravity
[ESA-SP-1067] 23 p3804 N84-34118
HUNT, L. R.
Nonlinear transformat
[NASA-CR-168506] 06 p0905 N84-15877
Review of research under the Joint Services Electronics Program
[AD-A141458] 19 p3013 N84-29100
HUNT, L. T.
Investigation of compounds essential for the origin of life
[NASA-CR-173538] 15 p2378 N84-25272
HUNT, M. M.
FINDIF: A software package to create synthetic seismograms by finite differences
[AD-A138904] 14 p2183 N84-24081
HUNT, M. S.
Research on alternative fuels
[CSIR-RME-465] 11 p1639 N84-20711
Work capsule for lightweight hydrostatic machines
[CSIR-RR-581] 13 p1988 N84-22905
HUNT, R. D.
The Marshall Space Flight Center Low-Energy Ion Facility: A preliminary report
[NASA-TM-82559] 04 p0596 N84-13933
HUNT, W. A.
The interactive effects of morphine and ionizing radiation on the latency of tail-withdrawal from warm water in the rat
[AD-P003251] 18 p2904 N84-28418
HUNTER, D.
An interdisciplinary oceanographic database
[CSIR-T/SEA-8207] 04 p0616 N84-14064
HUNTER, D. R.
Sm-Nd isotopic systematics of the ancient Gneiss complex, southern Africa 11 p1678 N84-20950
HUNTER, E. J.
Thought control from parenting, to behavior mod, to cults, to brainwashing
[AD-P003240] 18 p2903 N84-28407
HUNTER, K. C.
Model for illuminance on horizontal and vertical surfaces
[DE83-011973] 03 p0475 N84-13127
Graphical method for determining interflected daylight in clear climates
[DE83-011989] 03 p0475 N84-13128
Sunlight probability data for select cities in the US
[DE84-000006] 20 p3247 N84-30605
HUNTER, S. R.
Electron-drift velocity and ionization and attachment coefficients in gases/mixtures for diffuse-discharge opening switches
[DE83-017206] 04 p0609 N84-14017
Transport properties and dielectric strengths of gas mixtures for use in diffuse discharge opening switches
[DE84-011444] 21 p3394 N84-31536
HUNTER, W. G.
Experimental design: Review and comment
[AD-A139268] 14 p2218 N84-24309
HUNTLEY, R. B.
Development of an X-ray facility for radiation dosimetry studies
[MRL-R-910] 16 p2555 N84-26391
HUNTLEY, W. R.
Performance test results of an absorption heat pump which is designed to utilize low-temperature 600C (1400F) industrial waste heat
[DE83-017194] 04 p0537 N84-13533
Performance test results of a lithium bromide-water absorption heat pump that uses low-temperature (60 deg C(140 deg F)) waste heat
[DE84-013129] 21 p3403 N84-31586
HUNTOON, A. H.
A distributed signal processing architecture
[AD-A130227] 01 p0119 N84-10771
HUO, W. M.
Optical stark effect in the 2-photon spectrum of NO
[NASA-TM-85964] 21 p3492 N84-32131

HUPP, J. T.
Surface-enhanced Raman spectroscopy of electrochemically characterized interfaces. Relations between Raman scattering intensity and surface coverage for simple anionic adsorbates
[AD-A139054] 13 p1957 N84-22721
Utility of surface reaction entropies for examining reactant-solvent interactions at electrochemical interfaces. Ferricinium-ferrocene attached to platinum electrodes
[AD-A139055] 13 p1957 N84-22722
Redox thermodynamics of surface-bound reactants. Illustrative behavior of Cobalt(3)/(2) macrobicyclic cage complexes
[AD-A139058] 13 p1957 N84-22723
A method for evaluating the surface concentrations of 2 like-charged ions simultaneously adsorbed at an electrode-solution interface
[AD-A139074] 13 p1957 N84-22724
The influence of specific reactant-solvent interactions on intrinsic activation entropies for outer-sphere electron transfer reactions
[AD-A139081] 13 p1957 N84-22725
An experimental estimate of the electron-tunneling distance for some outer-sphere electrochemical reactions
[AD-A139049] 13 p2047 N84-23284
Solvent, ligand, and ionic charge effects on reaction entropies for simple transition-metal redox couples
[AD-A142374] 20 p3147 N84-29984
The prediction of electrochemical reactivities from contemporary theory: Some comparisons with experiment
[AD-A142406] 20 p3147 N84-29985
HUPPERTZ, H.
Very large scale integration logical and physical structures of VLSI systems
[BMFT-FB-T-83-267] 10 p1488 N84-19730
HUPPI, E. R.
Telemetry bandwidth selection for infrared surveillance sensors
[AD-A144251] 24 p3861 N84-34466
HURD, J. N.
Satellite communications for the Pacific islands. Second year report
[NASA-CR-173171] 07 p0986 N84-16388
Pacific Basin Communications Study, volume 1
[NASA-CR-173173] 12 p1805 N84-21767
Pacific Basin Communication Study, volume 2
[NASA-CR-173174] 12 p1805 N84-21768
HURD, W. J.
High dynamic global positioning system receiver
[NASA-CASE-NPO-16171-1-CU] 03 p0330 N84-12151
Symbol-stream combiner: Description and demonstration plans 22 p3574 N84-32632
Coherent digital demodulation of a residual carrier signal using IF sampling 22 p3574 N84-32634
HURFORD, G. J.
The Owens Valley frequency-agile interferometer
[AD-A131825] 03 p0377 N84-12453
HURLBURT, H. E.
The importance of altimeter and scatterometer data for ocean prediction 17 p2720 N84-27316
Sampling strategies and four-dimensional assimilation of altimetric data for ocean monitoring and prediction 17 p2721 N84-27317
HURLBUT, B.
Identification of strain-softening properties and computational predictions of localized fracture
[AD-A141866] 19 p3036 N84-29258
HURLEY, C. A.
Mechanical construction of the 22 Nova laser
[DE84-005432] 11 p1663 N84-20855
HURLEY, C. J.
The effect of accelerated ultra violet weathering on the rain erosion resistance of coated aircraft transparencies
[AD-P003194] 17 p2591 N84-26607
HURLEY, G. F.
Structural performance of ceramics in a high-fluence fusion environment
[DE84-001311] 04 p0508 N84-13329
Development of the VLS process for SiC whisker growth
[DE84-004376] 11 p1628 N84-20652
HURLEY, K.
The ISPM solar-flare X-ray and cosmic gamma-ray burst experiment 09 p1262 N84-18238
Two probable optical flashes from gamma-ray bursters
[NASA-TM-86126] 21 p3526 N84-32337
Three precise gamma-ray burst source locations
[NASA-TM-86132] 22 p3680 N84-33332
HURLEY, S. R.
Development and flight evaluation of an augmented stability active controls concept with a small horizontal tail
[NASA-CR-165951] 19 p2967 N84-28805
HURRLE, A.
Mass spectrometric analysis of silicon for solar cells
[BMFT-FB-T-83-134] 02 p0192 N84-11244
HURST, G. S.
Historical survey of resonance ionization spectroscopy
[DE84-011654] 21 p3361 N84-31319
HURT, P.
Atmospheric emergencies: Existing capabilities and future needs
[PB83-250779] 05 p0701 N84-14602
HURT, W. D.
Measurement of specific absorption rate in human phantoms exposed to simulated Air Force radar emissions
[AD-A143570] 22 p3631 N84-33007
HURTLE, D. E.
High temperature electronics technology
[AD-A143571] 22 p3586 N84-32714
HURTUBISE, R. J.
Solid surface luminescence analysis
[DE84-011254] 20 p3310 N84-31022
HURWITZ, D.
Design, fabrication and testing of a ruggedized fiberoptic cable 11 p1724 N84-21245
Optical and mechanical properties of single mode cables at 1300 nm 11 p1726 N84-21258
HURWITZ, F. I.
Method and apparatus for gripping uniaxial fibrous composite materials
[NASA-CASE-LEW-13758-1] 18 p2808 N84-27829
HURWITZ, M. M.
The GPRIME approach to finite element modeling 06 p0859 N84-15594
Generalizing the TRAPRG and TRAPAX finite elements 06 p0859 N84-15596
HUS, S. L.
Radiolysis of resist polymers. 2: Poly(haloalkylmethacrylates) and copolymers with methylmethacrylate
[AD-A132095] 04 p0507 N84-13321
HUSBANDS, C. R.
Optical power source control system
[AD-D011124] 22 p3656 N84-33175
HUSE, K.
Study report on a modular photovoltaic power supply system for space application
[BMFT-FB-W-84-010] 19 p2983 N84-28904
HUSEMANN, K.
Influence parameters of impact grinding mills
[NASA-TM-77352] 10 p1471 N84-19607
HUSEYIN, K.
Vibrations and stability of mechanical systems, 3 21 p3419 N84-31681
HUSH, D.
Second-order adaptive infinite impulse response filter
[DE84-001768] 06 p0831 N84-15406
Detection of multiple sinusoids using an adaptive cascaded structure
[DE84-005521] 11 p1645 N84-20753
HUSK, G. R.
The chemistry of transition metal carbene complexes
[AD-A133541] 06 p0801 N84-15225
HUSMANN, O. K.
Testing of coatings in space, Long Duration Exposure Facility (LDEF)
[BMFT-FB-W-84-017] 21 p3353 N84-31269
HUSON, G. G.
Investigation of parameters influencing the deflection of a thick wall jet by a thin wall jet coflowing over a rounded corner
[AD-A142773] 21 p3325 N84-31099
HUSSAIN, A.
Limited continuous speech recognition by phoneme analysis
[AD-A138021] 12 p1805 N84-21771
HUSSAIN, M. A.
Application of symbolic computation to the analysis of mechanical systems, including robot arms
[AD-P002940] 14 p2197 N84-24180
HUSSAIN, Z.
Direct determination of surface structures from photoelectron diffraction
[DE84-002572] 05 p0663 N84-14360
Angle-resolved photoemission extended fine structure
[DE84-002899] 08 p1236 N84-18080
HUSSAINI, M. Y.
Spectral methods for partial differential equations
[NASA-CR-172248] 02 p0280 N84-11832
Spectral methods for the Euler equations: Chebyshev methods and shock-fitting
[NASA-CR-172295] 08 p1095 N84-17118
Spectral methods for the Euler equations: Fourier methods and shock-capturing
[NASA-CR-172294] 08 p1095 N84-17119
Spectral methods for partial differential equations
[AD-P002980] 14 p2202 N84-24216
Applications of spectral methods to turbulent magnetofluids in space and fusion research
[NASA-CR-173665] 17 p2757 N84-27505
A spectral collocation method for the Navier-Stokes equations
[NASA-CR-172365] 19 p3021 N84-29159
HUSSAR, J. S.
A comparison of simulator procurement/program practices: Military versus commercial
[AD-P003453] 21 p3509 N84-32230
HUSSEY, T. W.
Model for the saturation of the hydromagnetic Rayleigh-Taylor instability
[DE83-012629] 01 p0150 N84-10986
Instabilities in cylindrical plasma liners imploded by high magnetic fields
[DE83-013640] 03 p0445 N84-12921
HUSSEY, W. J.
Economic benefits of operational environmental satellites
[PB83-252932] 04 p0569 N84-13748
HUSSON, D. E.
Measurement of stress with acoustic waves 11 p1728 N84-21273
HUSSONG, D.
SeaMARC 2 side-scan images of submarine volcanoes: Potential analogues for Venus 11 p1754 N84-21452
Venus analogues on the Earth's ocean floor(?): Volcanic terrains seen by SeaMARC 2 side scan sonar 11 p1755 N84-21456
HUSTON, R. J.
Rotorcraft noise
[NASA-CP-2234] 19 p3096 N84-29662
HUSTON, R. L.
Modelling of submerged cable dynamics
[AD-A132495] 04 p0544 N84-13580
User's manual for CABLE: A three-dimensional, finite-segment computer code for submerged and partially submerged cable systems
[AD-A132515] 04 p0579 N84-13821
HUSZAR, L.
Research and development support for the Center for Seismic Studies
[AD-A144442] 24 p3920 N84-34813
HUT, D. C.
UHF (Ultra-High Frequency) propagation measurements
[AD-A137637] 11 p1643 N84-20741
HUTCHINGSON, R. D.
Science of integration
[AD-A135590] 09 p1364 N84-18906
HUTCHINSON, J. W.
The effect of creep on the residual stresses generated during silicon sheet growth 18 p2938 N84-28634
HUTCHINSON, K. D.
Parameterization of solar radiative transfer in clear and cloudy atmospheres 02 p0246 N84-11608
HUTCHINSON, M.
Laser-induced bound states at surfaces: Ion neutralization and adsorption
[AD-A130278] 01 p0086 N84-10562
Laser-induced molecular dynamics: Rate processes in the gas phase and at solid surfaces
[AD-A134426] 07 p1072 N84-16962
Theoretical aspects of laser-induced periodic surface structure formation
[AD-A134875] 08 p1164 N84-17581
HUTCHINSON, M. J.
A digital flight control system for an unstable aircraft
[BU-292] 15 p2264 N84-24594
HUTCHINSON, W. B.
Effect of preferred orientation on crack growth properties of Ti-6Al-4V alloys, part 2
[BR89101-PT-2] 15 p2296 N84-24780
Effect of preferred orientation on crack growth properties of Ti-6Al-4V alloys, part 1
[BR89100-PT-1] 15 p2299 N84-24802
HUTH, G. K.
Engineering evaluations and studies. Volume 1: Exhibit A
[NASA-CR-171724] 06 p0794 N84-15174
Engineering evaluations and studies. Volume 2: Exhibit B, part 1
[NASA-CR-171725] 06 p0794 N84-15175
Engineering evaluations and studies. Volume 2: Exhibit B, part 2
[NASA-CR-171726] 06 p0794 N84-15176
Engineering evaluations and studies. Volume 3: Exhibit C
[NASA-CR-171727] 06 p0794 N84-15177
HUTSON, F. L.
Understanding localized behavior in the Auger spectra of covalent systems such as graphite
[AD-A133924] 05 p0647 N84-14255

HUTTER, D. J.
An X-ray and optical survey of s-type Markarian galaxies 05 p0762 N84-14996
HUTTLIN, G. A.
TLINES: A computer program for circuits of transmission lines
[AD-A139596] 14 p2142 N84-23844
HUTTON, M. F.
Optimal reduced order controllers for discrete-time linear systems with partial state estimation
[AD-P002952] 14 p2199 N84-24192
HUTTSELL, L. J.
Development and flight test of an active flutter suppression system for the F-4F with stores. Part 2: Ground tests and subcritical flight tests
[AD-A131402] 02 p0178 N84-11163
Development and flight test of an active flutter suppression system for the F-4F with stores. Part 3. Flight demonstration of the active flutter suppression system
[AD-A131972] 03 p0337 N84-12191
HUYDTS, E.
Technical information concerning rubber cushion presses 02 p0206 N84-11346
HUYNEN, J. R.
Polarization utilization in radar target reconstruction: C-wide (Multi-frequency) band relationship of a target's characteristic operators with its unique set of natural eigenfrequencies
[AD-A140092] 15 p2321 N84-24938
HUYNH, Q.
Numerical methods for singular perturbation problems
[AD-A134696] 08 p1220 N84-17966
HUZIOKA, T.
Studies of the behavior of a snow cover on a mountain slope. 14: Poisson's ratio of snow, 2
15 p2353 N84-25120
Snow cover observations at Avalanche Research Station, Tokkanbetsu, northern Hokkaido, 15 (1982-1983 winter) 23 p3762 N84-33844
HWANG, C. M.
Nonlinear analysis of thin shells by the hybrid mixed finite-element method 06 p0856 N84-15578
HWANG, C. S.
Undersea sound speed and range estimation
[AD-A138954] 13 p2040 N84-23237
Nonlinear observability and mixed-coordinate bearing-only signal processing
[AD-A141824] 19 p3088 N84-29603
HWANG, D. L. S. Q.
Graphite-ceramic RF Faraday-thermal shield and plasma limiter
[DE84-010960] 20 p3163 N84-30086
HWANG, D. P.
Analytical study of blowing boundary-layer control for subsonic V/STOL inlets
[NASA-TM-83576] 07 p0946 N84-16141
HWANG, H.
Effects of alloy composition and processing on the microstructure of D-9 type stainless steel
[DE84-003022] 07 p0975 N84-16321
HWANG, I. H.
Studies of new media radiation induced laser
[NASA-CR-173846] 21 p3408 N84-31616
HWANG, K.
VLSI architectures for pattern analysis and image database management 09 p1403 N84-19163
HWANG, K. K. S.
Properties of polyurethane anionomers: Ionization via bimolecular nucleophilic displacement of the urethane hydrogen
[AD-A137968] 12 p1801 N84-21742
Properties of UV-cured polyurethane acrylates: Effect of polyol type and molecular weight
[AD-A143176] 22 p3559 N84-32537
Properties of UV-curable polyurethane acrylates: Effect of reactive diluent
[AD-A143241] 22 p3559 N84-32540
HWANG, L. S.
Japan Sea central region tsunami of 26 May 1983. A reconnaisance report
[PB84-194703] 21 p3451 N84-31901
HWANG, V.
Image matching using generalized Hough transforms
03 p0394 N84-12569
HWANG, V. S. S.
Evidence accumulation for spatial reasoning in aerial image understanding
[AD-A139874] 15 p2336 N84-25025
Evidence accumulation for spatial reasoning
[AD-A142174] 19 p3042 N84-29302
HWANG, W.
Topics in the optimization of millimeter-wave mixers
[NASA-TP-2267] 11 p1645 N84-20758
HWANG, Y. S.
Optimum design of millimeter-wave impatt diode oscillators
[AD-A135335] 08 p1151 N84-17489
HWANGBO, H.
Motorized thermal control shade
10 p1444 N84-19436
HYATT, R.
Quality assurance of heat-fused polyethylene plastic pipe joints, phase 2
[PB84-104942] 08 p1168 N84-17608
HYDE, R. A.
A laser-fusion rocket for interplanetary propulsion
[DE84-001238] 04 p0490 N84-13219
Cosmic bombardment
[DE84-011402] 20 p3319 N84-31071
Wafer-scale laser pantography. Part 6: Direct-write interconnection of VLSI gate arrays
[DE84-012676] 22 p3601 N84-32815
HYDE, R. W.
Exposure chamber for studies of pollutant gases and aerosols in human subjects: Design considerations
[DE84-001135] 06 p0890 N84-15785
HYDES, D. J.
Preliminary studies of the total cation exchange capacity of sediments from two North Atlantic study sites
[IOS-158] 19 p3062 N84-29430
HYER, M. W.
An assessment of the accuracy of orthotropic photoelasticity
[NASA-CR-3773] 10 p1516 N84-19924
Contact stresses in pin-loaded orthotropic plates
[NASA-CR-173475] 12 p1825 N84-21900
Large deformation behavior of long shallow cylindrical composite panels
[NASA-CR-173286] 13 p2000 N84-22975
Residual stresses in cross-ply composite tubes
[NASA-CR-173540] 16 p2460 N84-25768
HYLAND, D. C.
Mean-square optimal, full-order compensation of structural systems with uncertain parameters
[AD-A131276] 02 p0281 N84-11841
HYLIN, C.
Space-reactor system and subsystem investigations: Cost and schedule estimates for reactor and shield subsystems technology development. SP-100 program
[DE84-000112] 04 p0603 N84-13984
HYMAN, E.
Estimating spectral indices from transforms of discrete representations of density functions
[AD-A140164] 16 p2557 N84-26404
Geophysical plasmas and atmospheric modeling
[AD-A142573] 20 p3240 N84-30572
HYMAN, E. A.
Battery Energy Storage Test (BEST) facility
[DE84-012127] 20 p3237 N84-30548
HYMAN, J. M.
Future directions in large-scale scientific computing
[DE83-013229] 01 p0124 N84-10807
Numerical methods for tracking interfaces
[DE84-001730] 06 p0902 N84-15854
High-order sparse factorization methods for elliptic boundary value problems
[DE84-012582] 22 p3646 N84-33122
HYMAN, W. A.
Science of integration
[AD-A135590] 09 p1364 N84-18906
HYND, D. A.
Measuring quality achievements
08 p1168 N84-17605
HYNEK, K.
Electronics seminar contributions enumerated
18 p2918 N84-28506
HYNES-GRIFFIN, M. E.
Compendium of abstracts on statistical applications in geotechnical engineering
[AD-A136355] 09 p1297 N84-18478
Proceedings, Seminar on Probabilistic Methods in Geotechnical Engineering
[AD-A136497] 09 p1345 N84-18786
HYUN, J. M.
The AGCE related studies of baroclinic flows in spherical geometry
[NASA-CR-170934] 03 p0371 N84-12415

I

IACOVELLI, P.
Information from bias measurement
18 p2688 N84-28327
IAFOLLA, V.
Resonant parametric transducer
[IFSI-83-10] 18 p2835 N84-27995
IAKOVLEV, D. G.
Stark spectroscopy of hydrogen lines in turbulent plasma. 1: Low-frequency turbulence
[DE84-004443] 11 p1737 N84-21333
IANG, R.
On the hydrodynamic corrections of SEASAT-ALT data and geodynamic application 23 p3777 N84-33945
IANNUCCI, R. A.
Two fundamental issues in multiprocessing: The dataflow solution
[AD-A134239] 07 p1052 N84-16813
A multiprocessor emulation facility
[AD-A136094] 09 p1365 N84-18915
IAROCCI, M.
X-ray holographic microscopy experiments at the Brookhaven synchrotron light source
[DE84-004289] 10 p1499 N84-19796
IBADOV, A. K.
Magnetometer for study of temperature variation of saturation magnetism of rock specimens
18 p2864 N84-28182
IBBA, G.
Speaker recognition: Example of execution of a phonic test
[FUB-55-1982] 10 p1483 N84-19690
ICE, G. E.
Design of doubly focusing, tunable (5 - 30 keV), wide-bandpass optics made from layered synthetic microstructures
[DE83-015492] 03 p0441 N84-12897
ICERMAN, L.
State-coupled low temperature geothermal resource assessment program, Fiscal Year 1982
[DE84-002640] 10 p1526 N84-19997
ICHIKAWA, A.
Quasi-doublet-lattice method for oscillating thin airfoils in subsonic flow 07 p0985 N84-16378
ICHIKAWA, Y.
Ion-molecule reactions and plasma parameters of positive column in oxygen glow discharge
21 p3476 N84-32036
ICHIKAWA, Y. H.
Turbulent diffusion for the radial twist map
[IPPJ-685] 23 p3826 N84-34267
ICHIMURA, M.
ICRF heating experiments on JIPP T-II
[IPPJ-650] 10 p1580 N84-20352
Conceptual design of the RFC reactor
[IPPJ-659] 11 p1733 N84-21304
ICHINOSE, H.
Gas pressure sintering of Beta-Sialon with Z=3
[NASA-TM-77421] 14 p2129 N84-23765
ICHIZAWA, J.
A history of the satellite wind estimation at MSC and the present accuracy of satellite winds
09 p1347 N84-18803
ICILIUS, G. V. Q.
The magnetic state of the Earth (according to the magnetic maps for 1880.0 published by the German Naval Office)
[NASA-TM-77058] 07 p1033 N84-16702
IDA, K.
Ion Bernstein wave heating experiment on JIPPT-II-U device
[IPPJ-662] 11 p1734 N84-21305
IDE, H.
Effect of radial inflow on vortex intensification and its application to wind vortex generators
17 p2724 N84-27335
IDE, R. F.
Comparison of icing cloud instruments for 1982-1983 icing season flight program
[NASA-TM-83569] 20 p3129 N84-29870
IDZOREK, G. C.
Fabrication of a hermetically sealed connector
[DE84-002322] 06 p0830 N84-15402
IERKIC, H. M.
The HF-enhanced plasma line
05 p0635 N84-14180
IESS, L.
Radio scintillations at large elongation angles: Contributions of waves versus discontinuities
[IFSI-82-4] 03 p0362 N84-12358
Correlation between two spacecraft in the Doppler detection of a gravitational background radiation
[IFSI-83-7] 03 p0363 N84-12362
IGARASHI, N.
Resin composition
[NASA-TM-77457] 10 p1451 N84-19477
IGATA, N.
Evolution of cavity microstructure in ion-irradiated 316 SS and Fe-20Ni-15Cr alloy
[DE84-012111] 20 p3158 N84-30053

IGEL, E. A.
Study of Deflagration-to-Detonation Transition (DDT) in the granular explosive, CP
[DE84-009500] 15 p2305 N84-24828

IGENBERGS, E.
Chemical and isotopic measurements of micrometeoroids by secondary ion mass spectrometry (A0187-2) 15 p2276 N84-24670

IGETA, Y.
Development of a wind tunnel test section with adaptive flexible walls for three-dimensional flow
[BMFT-FB-W-83-026] 10 p1495 N84-19776

IGIRI, G. C.
An analysis of acoustic and seismic wave resonances 04 p0561 N84-13701

IGLEHART, D. L.
Simulation of non-Markovian systems
[AD-A130837] 01 p0133 N84-10871
Simulation methodology
[AD-A137127] 10 p1592 N84-20436

IGMETOV, B. A.
Quality and reliability of steel wire ropes
[BLL-M-35461-(5828.4)] 12 p1821 N84-21872

IGNATOV, S. P.
Three-element radiointerferometer with very long baselines 19 p2974 N84-28853

IGNATOV, V. Y.
Operating modes of superconducting current converters in service 21 p3379 N84-31445

IGNATYEV, M. B.
Specifics of structure formation in nitrides synthesized by laser action on metals 12 p1784 N84-21640

IGOSHI, I.
Effect of carbon monoxide (CO) on firefighters 04 p0512 N84-13357

IGUCHI, H.
Experimental studies on plasma confinement in Nagoya bumpy torus
[IPPJ-655] 10 p1580 N84-20355
Heavy ion beam probe for the study of plasma confinement in Nagoya bumpy torus
[IPPJ-669] 15 p2409 N84-25462

IGUCHI, S.
Development of short-distance optical transmission cord 11 p1727 N84-21268

IGUCHI, T.
Measurement of NO, NO/sub 2, and HNO/sub 3 using a tunable diode laser system. Phase 2: Modification to permit automated simultaneous multi-species monitoring and feasibility study of extension to H/sub 2O/sub 2, CH/sub 2O and HONO
[PB84-160076] 14 p2151 N84-23890

IGUCHI, Y.
Scaling laws on fire spread 04 p0513 N84-13368

IGUSHEV, V. F.
A procedure for investigating the composition of the plasma arc
[BLL-M-35454-(5828.4)] 09 p1391 N84-19083

IHNAT, D. J.
An analysis of the effectiveness of the problem solving skills for managers training package--USCG
[AD-A144017] 23 p3834 N84-34317

IHRIG, C. J.
Impulsively-started flow about rectangular cylinders
[AD-A136029] 09 p1315 N84-18595

II, F. A. M.
Evaluation of entropy and JM-distance criterions as features selection methods using spectral and spatial features derived from LANDSAT images
[E84-10141] 16 p2507 N84-26089
An integrated software system for geometric correction of LANDSAT MSS imagery
[E84-10143] 16 p2507 N84-26091

IIYOSHI, A.
Spectroscopy in heliotron E 11 p1735 N84-21320

IJIMA, K.
Frequency characteristics of spring constants of a suspended transmission line 07 p0982 N84-16361

IJIMA, T.
An experimental study on wave interception by several pairs of balloons and a pair of grouped several balloons in submerged state 07 p0982 N84-16363

IKEDA, K.
Chaos and optical bistability: Bifurcation structure 14 p2231 N84-24382

IKEDA, M.
Variations in surface current off the coasts of Canada as inferred from infrared satellite imagery 17 p2719 N84-27305

IKEGAMI, H.
Experimental studies on plasma confinement in Nagoya bumpy torus
[IPPJ-655] 10 p1580 N84-20355
Heavy ion beam probe for the study of plasma confinement in Nagoya bumpy torus
[IPPJ-669] 15 p2409 N84-25462

IKEUCHI, K.
Determining attitude of object from needle map using extended Gaussian image
[AD-A131617] 02 p0240 N84-11571
Picking up an object from a pile of objects
[AD-A133631] 05 p0716 N84-14691
Constructing a depth map from images
[AD-A135679] 09 p1337 N84-18731
Picking parts out of a bin
[AD-A139257] 14 p2187 N84-24106

IKEZAWA, S.
External excitation of ion cyclotron drift waves in a two-ion species plasma
[IPPJ-665] 13 p2044 N84-23264

IKUTA, K.
Compact toroids with rotating halo-the spintor
[IPPJ-658] 11 p1734 N84-21306
Ablation accelerator (ABLAC) as driver for impact fusion
[IPPJ-668] 15 p2410 N84-25463
Catastrophe in plasma focus evolution
[IPPJ-686] 23 p3826 N84-34268

ILEGBUSI, J. O.
A revised two-equation model of turbulence
[CFD/83/5] 03 p0374 N84-12436
Turbulent flow downstream of a backward-facing step
[CFD/83/2] 07 p1005 N84-16515
An improved version of the k-W model of turbulence
[CFD/83/1] 18 p2837 N84-26011

ILER, R. W.
Proposal and development plan for an aircraft systems integration laboratory
[AD-A141827] 19 p2970 N84-28822

ILES, M. K.
Magnetically confined kinetic-energy storage ring: A new fundamental energy-storage concept
[DE84-011531] 21 p3435 N84-31793

ILES, P. A.
Metallization problems with concentrator cells 12 p1839 N84-21990
Microcrystalline silicon growth for heterojunction solar cells
[NASA-CR-173751] 18 p2869 N84-28215
Microcrystalline silicon growth for heterojunction solar cells
[NASA-CR-173750] 18 p2869 N84-28216
Silicon solar cell process development, fabrication and analysis
[NASA-CR-173950] 23 p3787 N84-34020

ILGEN, D. R.
Performance feedback effects under varying conditions of goals, feedback type, and choice
[AD-A136703] 10 p1550 N84-20157
Personnel technology: Performance appraisal, a process approach
[AD-A138359] 13 p2022 N84-23112

ILGERBAYEV, E.
Level of robotization of Kazakhstan industry viewed 14 p2188 N84-24112

ILIFF, K. W.
Practical aspects of modeling aircraft dynamics from flight data 11 p1616 N84-20575

ILIFF, R. L.
New techniques for absolute gravity measurements
[AD-A129285] 02 p0248 N84-11625

ILIN, Y. A.
Ultrasound distribution and bone calcium content in experimental animals submitted to hypokinesia and weightlessnese 20 p3254 N84-30852

ILINA-KAKUYEVA, Y. I.
Morphological study of primate muscle fibers and microcirculation during head-down hypokinesia 15 p2377 N84-25262

ILINA, Y. A.
Muscle tone changes in individuals of different age groups submitted to simulated weightlessness 12 p1864 N84-22150

ILK, K. H.
Mathematical theories, numerical investigations 10 p1519 N84-19949
Contribution to the dynamics of extended bodies: Gravitational interaction
[SER-C-288] 18 p2952 N84-28711

ILLE, H.
Non-invasive methods of cardiovascular exploration in aerospace medicine
[AGARD-AG-277(E)] 11 p1699 N84-21082
Main electrocardiographic abnormalities in the medical examination of flying personnel 11 p1699 N84-21083
Contribution of cardiac mechanograms in the expert examination of flying personnel 11 p1700 N84-21089
Exploration of arterial function using Doppler flow determination. Application to aeronautical and space medicine 11 p1700 N84-21091

ILLG, W.
Prediction of impact force and duration during low velocity impact on circular composite laminates
[NASA-TM-85703] 02 p0188 N84-11219

ILLIANO, J. M.
Observation of waves induced by an artificial ion beam in the ionosphere 05 p0635 N84-14176
Project Porcupine: The MF mutual impedance probe experiment. Part 1: Flight F2 (March 1977)
[CRPE-NT-93-VOL-1] 05 p0705 N84-14624
Project Porcupine: The MF mutual impedance probe experiment. Part 2: Flights F3 and F4 (March 1979)
[CRPE-NT-94-VOL-2] 05 p0705 N84-14625

ILLING, J. W.
Influence of nitrogen dioxide on xenobiotic metabolism in animals
[PB83-239723] 02 p0265 N84-11743

ILLINGWORTH, A. J.
A laboratory study of aircraft precipitation static charging
[AD-A142561] 21 p3443 N84-31848

ILNITSKIY, L. P.
Possibilities of studying inelastic properties and characteristics of medium inhomogeneity using spectra of scattered waves 17 p2706 N84-27230

ILSCHNER, B.
Influence of temperature on fracture behavior and mechanical properties of hot-pressed silicon nitride with different sintering aids
[BMFT-FB-T-83-166] 07 p0980 N84-16349

ILSEN, K.
Software support for a video disc based terrain map display system
[AD-A143700] 23 p3834 N84-34324

ILVES, A. S.
Functional status of operators and its systemic and technical determinants 18 p2895 N84-28369

ILVES, G.
Mechanistic methodology for airport pavement design with engineering fabrics. Volume 1: Theoretical and experimental base
[DOT/FAA/PM-84-9.1] 24 p3857 N84-34450

IM, B. J.
Dynamic-stall regulation of the Darrieus turbine
[DE83-017994] 03 p0321 N84-12097

IM, K. E.
Analysis of short pulse laser altimetry data obtained over horizontal path
[NASA-CR-170612] 06 p0849 N84-15535

IMAMURA, J. N.
HEAO 1-A1 observations of AM Herculis and related objects
[NASA-CR-170907] 01 p0164 N84-11077
Secular stability of rotating stars
[DE84-014011] 23 p3839 N84-34353

IMAMURA, M. S.
Power subsystem automation study
[NASA-CR-170974] 08 p1180 N84-17686

IMAMURA, T.
Degradation of thermal shield materials in the space radiation environment 10 p1446 N84-19448

IMAN, R. L.
Asymptotic relative efficiencies of the rank transformation procedure in randomized complete block designs
[DE84-010600] 22 p3649 N84-33134

IMANISHI, S.
A preprocessing procedure method in ternary clause selection
[AD-P002327] 14 p2189 N84-24118

IMBERT, D.
Superfluid Helium Cryostat for Space Utilization (CRHESUS): Development and test overview 10 p1442 N84-19420*

IMBRIALE, W. A.
High power K sub a -band transmitter for planetary radar and spacecraft uplink 22 p3572 N84-32625

IMESON, D.
Irradiation response in titanium-modified austenitic stainless steels prepared by rapid-solidification processing. Part 3. A model for the effect of titanium addition
[DE84-001296] 04 p0500 N84-13281
Irradiation response in titanium-modified austenitic stainless steels prepared by rapid-solidification processing. Part 2. Dual-ion irradiations
[DE84-001297] 04 p0500 N84-13282
Irradiation response in titanium-modified austenitic stainless steels prepared by rapid-solidification processing. Part 1: Microstructural response to neutron irradiation
[DE84-001298] 04 p0501 N84-13283

IMHOF, W. L.
X-ray sensor development for magnetospheric research
[NASA-CR-173172] 07 p1006 N84-16525

IMHOFF, M. L.
Radiometric accuracy assessment of LANDSAT-4 Multispectral Scanner (MSS) data
20 p3211 N84-30401
Geometric accuracy assessment of LANDSAT-4 Multispectral Scanner (MSS) 20 p3212 N84-30407
IMLAY, R.
Research in elementary particle physics
[DE84-006130] 12 p1903 N84-22392
IMPAGLIAZZO, J.
Deterministic models in mathematical demography: An investigation of stable population theory including an analysis of the population statistics of Denmark
03 p0428 N84-12606
IMRE, K.
Relativistic broadening near cyclotron resonance
[AD-A136224] 09 p1391 N84-19084
Non-geometrical optics investigation of mode conversion in weakly relativistic inhomogeneous plasmas
[DE84-012396] 20 p3306 N84-31002
IMRE, L.
Physical and chemical investigations on real catalyst surfaces
[BMFT-FB-T-83-273] 13 p1958 N84-22729
IMRIE, W. M.
Workshop on Requirements for Aircraft Corrosion Control
[AGARD-R-714] 16 p2434 N84-25613
IMSHENETSKIY, A. A.
Resistance of microorganisms from mesosphere to periodic freezing-thawing 22 p3630 N84-33001
IMURA, H.
An R and D model of a synthetic aperture radar antenna 23 p3777 N84-33949
INABA, Y.
The loudness of complex noise consisted of impact sound and steady noise 23 p3741 N84-33711
INAL, O. T.
Study of defects produced in tungsten by 800-MeV protons using field-ion microscopy
[DE84-001359] 04 p0613 N84-14048
INAMA, K.
Oxygen affinity of hemoglobin, 3 hours after passive increase in altitude from 400 to 1800 metres
[RAE-TRANS-2118] 22 p3630 N84-33004
INANLI, H.
Study of finite word length effects in some special classes of digital filters
[AD-A138082] 12 p1877 N84-22232
INCE, F.
Detection and monitoring of the 1983 Nowruz oil spill using AVHRR data 23 p3780 N84-33972
INDEKEU, J. O.
Phase transitions in chemisorbed systems
22 p3682 N84-33342
INDOVINA, P. L.
Preliminary result of our new Nationwide Evaluation of X-ray Trends (NEXT) program for Italy
[ISS-L-84/3] 20 p3260 N84-30693
INGALLS, R. L.
X-ray spectroscopy of solids under pressure
[DE84-013790] 22 p3665 N84-33237
INGALLS, T.
Program Manager's Support System (PMSS): An update
[AD-P002825] 13 p2062 N84-23370
INGANAES, O.
The photoelectrochemistry of conducting polymers
[DE84-010889] 20 p3164 N84-30093
INGARD, K. U.
Repetitively pulsed electric laser acoustic studies, volume 1
[AD-A136536] 09 p1322 N84-18636
INGARGIOLA, G. P.
Implementing an ADA kernel on NEBULA
[AD-A132745] 05 p0719 N84-14714
INGBER, M. S.
Thermally induced instabilities of two-layer fluid systems 22 p3592 N84-32745
INGE, S. V., JR.
Vertical shaft windmill
[NASA-CASE-LAR-12923-1] 03 p0383 N84-12493
INGE, T. B.
Air pollution effects on aquatic ecosystems: Summary of a symposium
[PB84-185214] 20 p3239 N84-30562
INGEBO, R. D.
Aerodynamic effect of combustor inlet-air pressure on fuel jet atomization
[NASA-TM-83611] 13 p1969 N84-22910
Atomization of liquid sheets in high pressure airflow
[NASA-TM-83731] 20 p3183 N84-30223
INGEL, L. K.
Dynamics of freely ascending convective jets initiated by active admixture 11 p1669 N84-20893
INGELS, F. M.
Analysis of space telescope data collection systems
[NASA-CR-171129] 21 p3464 N84-31958
System analysis for the Huntsville Operational Support Center distributed computer system
[NASA-CR-171136] 22 p3643 N84-33097
INGENITO, F.
Optimum depth of propagation in shallow water
[AD-A132182] 04 p0595 N84-13927
INGENSAND, H.
Investigation of the precision and utilization of a digital barometer based on the piezoresistive principle
02 p0233 N84-11531
INGER, G. R.
A theoretical and experimental investigation of a transonic projectile flow field
[AD-A131938] 03 p0320 N84-12094
Nonadiabatic model wall effects on transonic airfoil performance in a cryogenic wind tunnel
14 p2096 N84-23579
INGERSOLL, A. P.
Science support for the Earth radiation budget sensor on the Nimbus-7 spacecraft
[NASA-CR-175251] 22 p3622 N84-32948
INGERT, G. K.
Dynamic stifness of closed gas-static bearing with regulator 13 p1968 N84-22774
INGRAFFEA, A. R.
Interactive computer graphic surface modeling of three-dimensional solid domains for boundary element analysis 12 p1873 N84-22208
INGRAHAM, J. C.
Observations of ramped current operation in ZT-40M
[DE84-015076] 23 p3829 N84-34286
INGRAM, W. F.
Accuracy considerations when using some minicomputers for scientific and engineering problems
[AD-A134141] 07 p1061 N84-16878
INGRIA, R.
Research in knowledge representation for natural language understanding
[AD-A134102] 05 p0726 N84-14765
INGSOEY, P.
Plasma heating generated by a rocket-borne electron accelerator 05 p0637 N84-14189
INJEYAN, H.
CW HF R-branch laser
[AD-D011120] 22 p3601 N84-32813
INKSTER, D. R.
Optimizing image quality for SAR
23 p3777 N84-33950
INKSTER, R.
A SAR for real-time ice reconaissance
23 p3765 N84-33869
INMAN, D. J.
Stable response of damped linear systems
10 p1507 N84-19861
Critically damped dynamic systems
15 p2313 N84-24879
INNANEN, K.
The fate of the magellanic clouds
09 p1413 N84-19248
Orbital eccentricity in a logarithmic potential
09 p1414 N84-19249
INNES, L.
Mental performance in mild oxygen deficiency
[IAM-409] 17 p2746 N84-27433
INNES, W. R.
Measurement errors in TDC's using digital techniques
[DE84-002133] 07 p1008 N84-16537
INNOCENTI, M.
Cooperative pilot-optimal augmentation system synthesis for complex flight vehicles
11 p1605 N84-20511
Optimal cooperative control synthesis applied to a control-configured aircraft
[NASA-CR-170411] 15 p2264 N84-24593
INOMATA, K.
Random-choice solutions for two-dimensional and axisymmetric supersonic flows 20 p3168 N84-30115
INOUE, K.
Method of manufacturing ceramic shaped articles
[NASA-TM-77242] 01 p0057 N84-10370
Some grid generations using conformal mapping
[NAL-TR-758] 04 p0586 N84-13871
Grid generation for cascades using conformal mapping
[NAL-TR-760] 04 p0586 N84-13872
Some methods for numerical conformal mapping
[NAL-TR-794T] 16 p2548 N84-26354
INOUE, O.
Flow visualization and LDV measurement of turbulent mixing layers
[REPT-606] 06 p0834 N84-15424
INOUE, R.
Surface contact wear and abrasive wear in lubricated sliding mechanisms 04 p0543 N84-13573
INOUE, T.
Realization and analysis of a mask-programmable I2L multivalued logic circuit
[AD-P002352] 14 p2192 N84-24143
INOUE, Y.
A new operation method for a large-scale shock tunnel
[NAL-TR-765] 04 p0487 N84-13200
Instrumentation techniques for aerodynamic heating measurement in NAL hypersonic gun tunnel
[NAL-TR-780] 09 p1258 N84-18213
INOUYE, M.
Simulation applications at NASA Ames Research Center
[NASA-TM-85846] 10 p1432 N84-19362
INSKEEP, J. H. W., JR.
Design and implementation of a BASIC cross-compiler and virtual memory management system for the TI-59 programmable calculator
[AD-A132172] 04 p0577 N84-13808
INSPEKTOR, A.
Homogeneous reactions of hydrocarbons, silane, and chlorosilanes in radiofrequency plasmas at low pressures
[NASA-TP-2301] 11 p1626 N84-20643
Radical and ion molecule mechanisms in the polymerization of hydrocarbons and chlorosilanes in RF plasmas at low pressures (1.0 torr)
[NASA-TM-83802] 11 p1736 N84-21329
INTEMANN, P. A.
Subsonic high-angle-of-attack aerodynamic characteristics of a cone and cylinder with triangular cross sections and a cone with a square cross section
[NASA-TM-84377] 01 p0003 N84-10019
INTEMANN, P. R.
Two types of values and their assessment by the collective interest
[DE83-012064] 03 p0460 N84-13031
INUMARU, N.
Aerodynamic characteristics of fan-jet STOL aircraft
[NAL-TR-790] 16 p2440 N84-25651
INUZUKA, K.
Hydrogen-bond energies of dimer formation and UV absorption spectra of mono-methyl substituted 2-pyridones 21 p3477 N84-32040
IOANNIDES, A. M.
Development of a stress-dependent finite element slab model
[AD-A135836] 09 p1332 N84-18694
IOANNOU, P. J.
Baroclinic instability of atmospheric jets
06 p0877 N84-15704
IONOV, A. V.
Simulation of vibratory processes in damped structures with temperature-frequency characteristics of vibration absorbing materials taken into account
21 p3478 N84-32046
IONOV, N. P.
Light-emitting diode matrix flat screen
22 p3567 N84-32592
IP, W. I.
A dawn to dusk electric field in the Jovian magnetosphere
[NASA-CR-166463] 08 p1245 N84-18136
IPAVICH, F. M.
Iron charge states observed in the solar wind
03 p0473 N84-13112
The ISPM solar-wind ion composition spectrometer
09 p1261 N84-18232
IPPEN, E. P.
Optics and quantum electronics
22 p3682 N84-33343
IPPOLITO, A.
Flight test techniques used for proof of structural integrity of Tornado when carrying external stores
24 p3849 N84-34413
IPPOLITO, R.
Low cost acetylene terminated polymers
[AD-A140040] 19 p2998 N84-28996
IPPOLITOV, A. S.
Vortex motion in a precombustion chamber with intersecting jets
[AD-A139040] 13 p1956 N84-22717
IPSEN, I. C. F.
Singular value computations with systolic arrays
[AD-A139302] 14 p2211 N84-24277
A parallel QR method using fast Givens' rotations
[AD-A139184] 14 p2212 N84-24281
Parallel scaled givens rotations for the solution of linear least squares problems
[AD-A140778] 17 p2758 N84-27512
Singular value decomposition with systolic arrays
[NASA-CR-172396] 20 p3279 N84-30817

IRADJPANAH, K.
Wave uplift pressure on horizontal platforms
[PB84-190828] 20 p3188 N84-30257
IRANINEJAD, B.
Double arch mirror study. Part 2: Engineering analysis report
[NASA-CR-166589-PT-2] 21 p3412 N84-31635
IRBY, C. A.
Design analysis of advanced photovoltaic technologies
[DE84-000008] 04 p0557 N84-13675
IRDUMSA, J. Z.
Energetics of vortex ring formation
[AD-A138795] 13 p1927 N84-22539
IRIKAWA, S.
Simultaneous observation of snowfall intensity and visibility in winter at Sapporo 15 p2354 N84-25125
IRION, J.
Testing polycarbonate for utilization in the production of transparent enclosures
[AD-P003192] 17 p2591 N84-26605
IRONS, J. R.
An overview of LANDSAT-4 and the Thematic Mapper 20 p3206 N84-30364
Impact of Thematic Mapper sensor characteristics on classification accuracy 20 p3213 N84-30410
Quick look analysis of TM data of the Washington, District of Columbia area 20 p3214 N84-30418
IRUDAYASAMY, J.
Time domain analysis and synthesis of robust controllers for large scale LQG (Linear Quadratic Gaussian) regulators
[AD-A137760] 11 p1713 N84-21172
IRVIN, T. B.
Progressive fracture of fiber composites
[NASA-TM-83701] 18 p2809 N84-27831
IRVINE, R. D.
Static thrust augmentation of rocket motors by air entrainment
[AD-A143179] 22 p3543 N84-32430
IRVINE, T. B.
Fracture surface characteristics of notched angleplied graphite/epoxy composites
[NASA-TM-83786] 23 p3711 N84-33522
Fracture modes in notched angleplied composite laminates
[NASA-TM-83802] 24 p3878 N84-34576
IRVING, A.
An experimental comparison of operator responses to voice and tone system warnings
[BAE-BT-12051] 13 p2023 N84-23117
Bibliography on direct voice input and direct voice output
[BAE-BT-12363] 13 p2023 N84-23118
IRVING, P. M.
Acidic deposition effects on vegetation: A review and analysis of methodology
[DE84-004014] 09 p1343 N84-18769
IRWIN, J. F.
Operational readiness and its impact on fighter avionics system design 06 p0768 N84-15037
IRWIN, J. S.
Preparing meteorological data for use in routine dispersion calculations: Workgroup summary
[PB84-119890] 08 p1193 N84-17774
Relation of urban model performance to stability
[PB84-130418] 11 p1676 N84-20940
IRWIN, M.
The automated photographic measuring facility at Cambridge 18 p2842 N84-28043
The role of the Automated Plate Measuring (APM) machine in developing a program to discover QSOs automatically 18 p2843 N84-28054
IRWIN, M. J.
Internal calibration of astronomical photographs 09 p1411 N84-19230
ISAAC, P. D.
Pairwise balanced latin squares should always be used for within-subjects designs
[AD-A137283] 10 p1569 N84-20282
ISAACMAN, R.
The 3.3 micron mapping of NGC 7027 16 p2571 N84-26499
The 3.3 micron mapping of NGC 7027 18 p2949 N84-28697
ISAACS, H.
Potential-determining reactions during pitting corrosion of aluminum
[DE84-007695] 20 p3155 N84-30031
ISAACS, H. S.
Characterization of alloy 600 surfaces after exposure to a caustic environment
[DE83-018297] 04 p0503 N84-13300
Electrochemical kinetics in stress-corrosion cracks
[DE84-002855] 07 p0976 N84-16323
Detection and performance of defects in aluminum coated steels
[DE84-004175] 10 p1461 N84-19545
Defect electrochemistry of oxide electrodes 11 p1742 N84-21364
ISAACS, R. G.
Outlook for improved numerical weather prediction using satellite data with a special emphasis on the hydrological variables
[AD-A141233] 18 p2890 N84-28344
ISAEV, E. I.
Crystallogeometric analysis of compatibility of carbon-metal materials
[BLL-M-35559-(5828.4)] 17 p2767 N84-27570
ISAKOV, A. A.
Condensational variability of scattering phase function 17 p2707 N84-27240
ISAKOVA, E. I.
Kinetics of corrosion of alloys of vanadium-chromium system in phosphoric acid
[BLL-M-35560-(5828.4)] 17 p2821 N84-26771
ISASCS, H. S.
Determining of surface oxide compositions on Alloy 600 using Rutherford backscattering
[DE84-002872] 15 p2299 N84-24797
ISAYEV, N. I.
Anodic electrochemical processing of amorphous alloys 24 p3870 N84-34527
ISAYEV, V. I.
Optimum density structure of upper mantle along Japan - Shatskiy Rise - Emperor Sea mounts geotraverse 17 p2704 N84-27220
ISBERT, H.
Characterization of high powered laser diodes 24 p3904 N84-34728
ISELER, G. W.
InP materials
[AD-A138992] 13 p2047 N84-23282
ISENBERG, A. O.
Cell performance and life characteristics of solid oxide electrolyte fuel cells 11 p1739 N84-21343
ISENBERG, P. A.
Acceleration of heavy ions in the solar wind 03 p0474 N84-13116
ISENSEE, U.
Interactions between satellites and plasma
[NASA-TM-77476] 23 p3700 N84-33451
ISERMANN, U.
The effect of aircraft with noise certificates according to class ICAO Annex 16 on the determination of noise protection domains following the law on protection against aircraft noise
[MPIS-117/1983] 23 p3821 N84-34234
ISHAI, O.
Hygrothermal influence on delamination behavior of graphite/epoxy laminates
[NASA-TM-85935] 12 p1826 N84-21904
Durability of structural adhesively bonded systems
[AD-A140714] 17 p2626 N84-26805
Hygrothermal effects on mechanical behavior of graphite/epoxy laminates beyond initial failure
[NASA-TM-86001] 22 p3544 N84-32438
ISHIDA, H.
Nondestructive FT-IR sampling technique to study glass fiber composite interfaces
[AD-A129871] 01 p0031 N84-10192
Structural gradient in the silane coupling agent layers and its influence on the mechanical and physical properties of composites
[AD-A130864] 01 p0031 N84-10197
Hydrothermal stability of gamma-aminopropyltriethoxysilane coupling agent on ground silicon powder and E-glass fibers
[AD-A130904] 01 p0037 N84-10234
ISHIDA, T.
Stable isotope studies
[DE84-002436] 10 p1577 N84-20332
MEM spectrum analysis of snow densities 15 p2353 N84-25117
BASIC programs 2 23 p3762 N84-33847
ISHIDA, Y. G.
Determination of Cr(6) and Cr(3) by ICP
[DE83-016627] 10 p1457 N84-19515
ISHIGAKI, H.
New relationships for turbulent plumes
[NAL-TR-763] 04 p0532 N84-13495
ISHIHARA, H.
Large scale fire test of cable installed in tunnels 11 p1727 N84-21263
ISHIHARA, T.
Atomic hydrogen beam probing with spectroscopic technique 11 p1736 N84-21324
ISHII, S.
A study of air breathing rockets. 3: Supersonic mode combustors
[NAL-TR-756] 04 p0489 N84-13213
ISHIKAWA, H.
Reliability-based design principle of composite materials with failure probability as a statistic 15 p2309 N84-24851
Statistical fatigue and residual strength degradation model for glass polyester laminates 15 p2309 N84-24857
ISHIKAWA, M.
Distribution of pack ice of Okhotsk Sea coast of Hokkaido observed with sea ice radar network, January-April 1983 23 p3762 N84-33846
ISHIKAWA, M. Y.
A fast accurate algorithm for solving the steady 3-dimensional equations for inviscid rotational flow 23 p3746 N84-33745
ISHIKAWA, N.
Snow storm with strong wind in Antarctica 15 p2353 N84-25118
Optical properties of melting snow, 1 15 p2354 N84-25122
Radiation measurement of snowy season in 1982-1983 at Sapporo 23 p3762 N84-33845
ISHIKAWA, T.
Threadwise analysis of woven fabric composites
[NAL-TR-792T] 16 p2470 N84-25832
ISHIKAWA, Y.
Potential-determining reactions during pitting corrosion of aluminum
[DE84-007695] 20 p3155 N84-30031
ISHIMARU, A.
Wave propagation in dense geophysical media
[AD-A143213] 22 p3823 N84-32955
ISHIMARU, J.
Interactive wire-frame ship hullform generation and display 12 p1874 N84-22209
ISHIYAMA, H.
Steady state performance of single-phase reaction motor 21 p3476 N84-32035
ISHIZAKI, Y.
Japanese activities in refrigeration technology 06 p0818 N84-15330
ISHIZUKA, H.
High-current betatron, phase 1
[AD-A143748] 23 p3824 N84-34252
ISHMAEL, S. D.
Design implications from AFTI/F-16 flight test
[NASA-TM-86026] 05 p0632 N84-14157
AFTI/F-16 flight test results and lessons
[NASA-TM-84920] 06 p0791 N84-15159
ISKANDER, M. F.
Biological effects of millimeter-wave irradiation: Living bacterial organisms
[AD-A142474] 20 p3256 N84-30670
ISMAELLI, A.
Effect of multiple scattering on the propagation of light beams in dense nonhomogeneous media 15 p2325 N84-24959
ISMAGILOV, S. G.
Regulation of mechanical characteristic of iron-powder electromagnetic brake 21 p3379 N84-31444
ISMAIL-ZADE, T. A.
Magnetometer for study of temperature variation of saturation magnetism of rock specimens 18 p2864 N84-28182
ISMAIL, S.
The blue-green spectrum of gaseous Pb2 wave numbers and constants of the FOu+ - XOg+ system
[USIP-84-06] 20 p3151 N84-30009
Spaceborne lidar investigations of the atmosphere 24 p3907 N84-34743
ISMAILOV, T.
Azerbaijan Institute develops subsatellite measurement systems 21 p3348 N84-31238
ISO, T.
Fabrication and evaluation of a high density multi fiber plastic connector 11 p1720 N84-21223
ISOBE, H.
Steady state performance of single-phase reaction motor 21 p3476 N84-32035
ISOGAI, K.
Numerical simulation of transonic flutter of a high-aspect-ratio transport wing
[NAL-TR-776T] 09 p1257 N84-18208
ISONO, H.
A new objective method of evaluating image sharpness
[NHK-SERIAL-296] 15 p2407 N84-25449
ISRAEL, D. J.
Research in knowledge representation for natural language understanding
[AD-A134102] 05 p0726 N84-14765
Some remarks on the role of logic in knowledge representation
[AD-A132534] 05 p0732 N84-14806

ISRAELSON, H.
Deconvolution based on source scaling applied to teleseismic signals
[FOA-C-20514-T1] 12 p1848 N84-22046
ISSAWI, B.
Substance geology of the western desert in Egypt and Sudan revealed by Shuttle Imaging Radar (SIR-A) 07 p0987 N84-16392
ISSELSTEIN, F.
Automated detection of internal and surface defects in moving strip
[BMFT-FB-T-84-079] 19 p3033 N84-29239
ISSERMANN, U.
Influence of physical and air traffic conditions on aircraft noise emission to the ground
[MPIS-11/1982] 02 p0177 N84-11159
ISTOMIN, V. G.
Proposals for VIRA (Venus International Reference Atmosphere): Chemical composition of atmosphere below 100 km
[PR-830] 08 p1244 N84-18134
ISU, N.
Perception of the movement of visual scenes during horizontal body rotation
[NAL-TR-787] 16 p2538 N84-26292
ISUPOV, G. P.
Transition from laminar to turbulent flow under action of acoustic vibrations 21 p3480 N84-32056
ISYUK, S. I.
Determining parameters of radiating focus from amplitude spectra of body waves 17 p2704 N84-27222
ITAGAKI, K.
Mechanical ice release processes. Part 1: Self-shedding from high-speed rotors
[AD-A135369] 09 p1256 N84-18198
ITIKAWA, Y.
Energy dependence of the yields of ion-induced sputtering of monatomic solids
[IPPJ-AM-32] 07 p1076 N84-16992
Dependence of the backscattering coefficients of light ions upon angle of incidence
[IPPJ-AM-34] 15 p2409 N84-25459
ITKIN, N.
Analysis and programming for electromagnetic applications
[AD-A142313] 19 p3009 N84-29071
ITO, K.
Legendre-tau approximation for functional differential equations. Part 2: The linear quadratic optimal control problem
[NASA-CR-172397] 20 p3280 N84-30818
ITO, R.
Dependence of the backscattering coefficients of light ions upon angle of incidence
[IPPJ-AM-34] 15 p2409 N84-25459
ITO, S.
Measurements of rain attenuation at 12 GHz with the BSE
[NHK-LN-292] 15 p2370 N84-25218
ITO, T.
Development of composite fiber-optic electric-power umbilical cable and optical feedthrough for deep ocean mining 11 p1722 N84-21231
ITO, T. I.
Synthesis of perfluoroalkylene dianilines
[NASA-CR-168004] 02 p0189 N84-11228
ITOH, H.
A unified approach to composite MVL with monotonic subfunction
[AD-P002368] 14 p2194 N84-24159
ITOH, N.
Energy dependence of the yields of ion-induced sputtering of monatomic solids
[IPPJ-AM-32] 07 p1076 N84-16992
Dependence of the backscattering coefficients of light ions upon angle of incidence
[IPPJ-AM-34] 15 p2409 N84-25459
ITOH, T.
A study of microwave and millimeter-wave quasi-optical planar mixers
[AD-A135252] 08 p1144 N84-17443
Analysis of transmission lines on semiconductor substrate
[AD-A140711] 17 p2663 N84-26987
Computer-aided design of millimeter wave e-plane filters
[AD-A141016] 18 p2833 N84-27987
A study of distributed millimeter-wave isolators
[AD-A142729] 20 p3179 N84-30189
ITOH, Y.
Atomic hydrogen beam probing with spectroscopic technique 11 p1736 N84-21324
An R and D model of a synthetic aperture radar antenna 23 p3777 N84-33949
Some test results of synthetic aperture radar transmitter and receiver 23 p3783 N84-33988
ITON, L. E.
EPR spectra of rare earth s-state ions in glassy systems
[DE83-014686] 01 p0155 N84-11022
New approach to the generation of metal-bearing, medium-pore, shape-selective zeolites for Fischer-Tropsch catalysis: Spectroscopic studies of zeolites
[DE83-014344] 03 p0347 N84-12254
Novel interactions of the charge-balancing cations with framework defects and trapped hydrogen atoms in holmium-exchanged Y zeolites
[DE83-014204] 03 p0433 N84-12839
High-resolution solid-state (13)C NMR study of the templating cations in tetrapropylammonium fluoride silicalite: The effect of steric interactions
[DE83-011706] 06 p0925 N84-16013
ITRATANI, R.
Numerical analysis on the ion species ratios in a steady state hydrogen plasma
[IPPJ-687] 23 p3826 N84-34269
ITSEKHOVSKIY, O. G.
Study of cardiovascular system during long-term spaceflights 02 p0259 N84-11694
ITSWEIRE, E. C.
An experimental study of the response of a nearly isotropic grid turbulence to a spectrally local disturbance and an investigation of the coherent structures associated with a turbulent spot in a laminar boundary layer 05 p0678 N84-14459
ITTEN, K. I.
Multitemporal LANDSAT urban area classification 23 p3768 N84-33886
IUCCI, N.
Interplanetary perturbations associated with type 4 solar flares
[IFSI-82-6] 03 p0475 N84-13129
The behavior of the cosmic ray equatorial anisotropy inside fast solar wind streams ejected by coronal holes
[IFSI-82-16] 03 p0475 N84-13130
Cosmic ray NM-64 neutron monitor data-9, January-December 1980, Rome, Italy
[IFSI-83-11] 18 p2954 N84-28722
Cosmic ray NM-64 neutron monitor data-10, January-December 1981, Rome, Italy
[IFSI-83-12] 18 p2954 N84-28723
Cosmic ray NM-64 neutron monitor data-9, January-December 1982, Rome, Italy
[IFSI-83-13] 18 p2954 N84-28724
IUSIM, R.
Evolution of nonlinear wave groups on water of slowly-varying depth
[AD-A141260] 18 p2837 N84-28008
IVAKHNOV, A.
Cosmonauts use new instruments for Earth study 05 p0633 N84-14162
Lyakhov and Aleksandrov work with Pion experiment on Salyut-7 12 p1774 N84-21567
Cosmonauts evaluate color results from Elektrotopograf experiment 12 p1774 N84-21569
Discussion of cosmonaut EVA for solar battery installation 12 p1774 N84-21571
Landing of Soyuz T-9 cosmonauts 12 p1774 N84-21573
Problems of prompt adoption of new technology discussed 13 p2065 N84-23396
Goals of cosmonaut At'kov's medical studies on 'Salyut-7' 19 p2971 N84-28827
Changes in 'Soyuz T-10' crew work schedule 19 p2971 N84-28829
Docking of 'Progress-19', mapping and survey work 19 p2971 N84-28831
IVALDI, C. F.
The use of interactive graphics processing in short-range terminal weather forecasting: An initial assessment
[AD-A137165] 11 p1687 N84-21004
IVANCIC, W. A.
Analysis of polynuclear aromatic hydrocarbons in particulate matter by luminescence techniques
[PB84-181882] 21 p3363 N84-31333
IVANIY, N. V.
Elastic properties of textured sheets of two-phase titanium alloys 23 p3708 N84-33505
IVANIY, V. S.
Elastic properties of textured sheets of two-phase titanium alloys 23 p3708 N84-33505
IVANNIKOV, A. D.
Software debugging devices for microprocessors 24 p3941 N84-34952
IVANOV, A. A.
Special features of electrochemical determination of non-uniformly distributed oxygen in melts
[BLL-M-35105-(5828.4)] 01 p0036 N84-10226
Plasma beam instability of bounded electron beam in weak magnetic field 21 p3488 N84-32105
IVANOV, A. N.
Thermodynamic estimation of influence of alloying on sticking fault energy of bcc metals
[BLL-M-30130-(5828.4)] 01 p0151 N84-10995
IVANOV, A. P.
Changes in some rheological parameters of blood in experiments simulating weightlessness 07 p1044 N84-16774
IVANOV, B. N.
Apparatus for certification of angular-displacement transducers 13 p1973 N84-22806
Pulse and interval distributor with sensor control 17 p2637 N84-26867
IVANOV, B. Y.
Studies of amplifier module in Delfin Facility for heating thermonuclear plasma 20 p3289 N84-30881
IVANOV, G.
Advanced system for testing new helicopter transmissions 21 p3329 N84-31120
IVANOV, S. A.
The melting of iron containing reduced amounts of non-ferrous metal impurities
[BLL-M-35209-(5828.4)] 01 p0041 N84-10259
Impact of laser radiation on optical properties of polymer liquid crystal in phase transition range 20 p3286 N84-30868
IVANOV, V.
Aeroproyekt Institute's work in aviation facility design 23 p3687 N84-33370
IVANOV, V. A.
Nonlinear transmission of laser radiation by ZnTe monocrystals at helium temperatures 17 p2636 N84-26863
IVANOV, V. P.
Areas of the rational use of different spacecraft power systems
[AD-A129340] 02 p0186 N84-11207
IVANOV, V. S.
Creep of LaCrO-3Cr ceramic-metallic material 24 p3877 N84-34568
IVANOV, V. V.
Control computer and automation subsystem equipment in Delfin Facility 20 p3289 N84-30880
Increasing fusion efficiency in laser welding with dynamic beam focusing 23 p3710 N84-33516
Visualization of the 3-dimensional flow around a model with the aid of a laser knife
[NASA-TM-77497] 23 p3746 N84-33748
Features of laser welding of AMg6 alloy 24 p3870 N84-34525
IVANOV, Y. A.
Forming of upper homogeneous layer in Mediterranean basin 17 p2699 N84-27195
Physiological-hygienic criteria of medical selection of military servicement for work in a hot climate 23 p3807 N84-34135
IVANOV, Y. M.
Thermal physics of plasma atomization onto fiber materials 24 p3873 N84-34544
Estimating target temperature in laser experiments in nitrogen at high pressures 24 p3874 N84-34548
IVANOVA, A. V.
Oscillations of elastic airplane due to wind gust 21 p3485 N84-32087
IVANOVA, S. M.
Metabolic disturbances in man in an environment with low ammonia level and their correction by graded physical exercise 07 p1045 N84-16780
IVANOVA, T. A.
Cutoff for solar cosmic rays in Earth's magnetosphere in magnetically quiet periods 19 p2973 N84-28849
IVANOVSKII, L. E.
The electrodeposition of titanium coatings
[BLL-OA-TRANS-3057-(6196.3)] 04 p0497 N84-13260
IVANSSON, S.
Tomographic velocity estimation in the presence of low velocity zones
[FOA-C-20535-E1] 18 p2880 N84-28287
IVASCHENKO, A. I.
Seismological observations during the I and II Soviet-American expeditions for tsunami study in the open sea 19 p3060 N84-29417
T-phase recording by OBS near the conjugation of the Kuril and Japan trenches 19 p3060 N84-29418
The seismicity of the continental slope of the Kuril trench from the OBS observations 19 p3061 N84-29420
On the elastic wave velocity distribution beneath the continental slope of the Kuril trench 19 p3061 N84-29421
IVASHIN, V. V.
Forming of magnetic fields with complex law of variation in time
[AD-A131128] 02 p0287 N84-11879

IVASISHIN, O. M.
Effect of thermocyclic processing on phase composition and structure of VT22 alloy 23 p3709 N84-33511
IVCHENKO, Y. L.
Polarization of paraexciton luminescence in Cu2O crystals in magnetic field 20 p3287 N84-30870
IVERSEN, J. D.
Feasibility study to conduct windblown sediment experiments aboard a space station
[NASA-CR-175434] 12 p1776 N84-21586
IVERSON, R. W.
Data communication between data terminal equipment and the JPL administrative data base management system 22 p3672 N84-33278
IVERSON, W. P.
The mechanism of anaerobic (microbial) corrosion
[AD-A131223] 01 p0044 N84-10283
IVERSTINE, E. C.
Managing microcomputers: A survival kit for functional managers
[AD-A144006] 23 p3833 N84-34316
IVEY, G. W., JR.
Steady internal flow and aerodynamic loads analysis of shuttle thermal protection system
[NASA-TP-2255] 10 p1439 N84-19393
IVONIN, Y. N.
Influence of natural exposure in space on physical-mechanical properties of carbon reinforced plastic 24 p3872 N84-34536
IVOYLOV, V. F.
Interrelation between parameters of M-type traveling wave tube 22 p3568 N84-32598
IWABUCHI, T.
VISSR observation of the solar eclipse in rapid-interval limited scan mode 09 p1347 N84-18802
IWAI, S.
Axiomatic characterization and comparative analysis of preference on desirability and possibility
[AD-P002329] 14 p2189 N84-24120
IWAMOTO, H.
A study on airborne integrated display system and human information processing
[NASA-TM-77338] 06 p0891 N84-15789
IWAMOTO, M.
Cathodic stripping voltammetry of thioamides on a rotating silver disk electrode
[AD-A139200] 14 p2122 N84-23718
IWAN, D. C.
APC-2: An electron beam propagation code
[DE84-011532] 21 p3494 N84-32144
IWANCZYK, J.
Large-area mercuric iodide photodectors
[DE83-013035] 03 p0441 N84-12898
IWANIEC, T.
On L sup p-integrability in PDE's and quasiregular mappings for large exponents 04 p0576 N84-13799
IWASA, M.
Effects of applied pressure on hot-pressing of Beta-SiC
[NASA-TM-77397] 23 p3723 N84-33593
IWASA, Y.
Safety and protection for large-scale superconducting magnets. A FY 1982 report
[DE83-012961] 01 p0154 N84-11013
IWASAKI, A.
Wind tunnel investigation of the rolling moment of a rectangular wind with some winglets on the left upper tip
[NAL-TR-788] 16 p2440 N84-25650
IWASAKI, R. S.
Engineering evaluations and studies. Volume 1: Exhibit A
[NASA-CR-171724] 06 p0794 N84-15174
Engineering evaluations and studies. Volume 2: Exhibit B, part 1
[NASA-CR-171725] 06 p0794 N84-15175
Engineering evaluations and studies. Volume 2: Exhibit B, part 2
[NASA-CR-171726] 06 p0794 N84-15176
Engineering evaluations and studies. Volume 3: Exhibit C
[NASA-CR-171727] 06 p0794 N84-15177
IWASKIEWCZ, K.
Use of the Doppler ultrasound method to evaluate the rate of blood flow in children with patent ductus arteriosus
[ISSN-0208-5658] 19 p3064 N84-29441
IWATSUBO, T.
Stability problems of rotor systems 10 p1506 N84-19851
IYE, Y.
The anomalous magnetoresistance of graphite at high magnetic fields
[AD-A133861] 05 p0753 N84-14938
IYER, N. C.
Role of texture and structural damage in plane strain deformation processing 21 p3416 N84-31664
IYER, R.
Open cycle lithium chloride cooling system
[DE84-005831] 20 p3184 N84-30234
IYER, R. K.
Herd CPU related failures and system activity: Measurement and modelling
[AD-A130821] 01 p0119 N84-10772
A study of software failures and recovery in the MVS operating system
[AD-A132681] 05 p0728 N84-14783
Permanent CPU errors and system activity: Measurement and modelling
[AD-A134467] 07 p1052 N84-16814
A statistical study of hardware related software errors in MVS
[AD-A135726] 09 p1368 N84-18931
IYER, S.
Material growth and characterization for solid state devices
[NASA-CR-173265] 10 p1587 N84-20401
IZADPANAH, K.
The postprocessing technique in the finite element method the theory and experience
[AD-A140953] 18 p2925 N84-28551
IZENMAN, A. J.
The amplitude density function and high-resolution frequency analysis of time series
[AD-A132466] 04 p0592 N84-13906
IZHOVKINA, N. I.
On the stimulated precipitation of electrons and the mechanism of wave generation in the whistler range in the ARAKS experiment 05 p0837 N84-14190
IZUMI, K.
Hardness of wet snow, 2 15 p2353 N84-25119
Flow properties of concentrated suspensions
[NASA-TM-77431] 19 p3021 N84-29154
IZUMI, L.
Some test results of synthetic aperture radar transmitter and receiver 23 p3783 N84-33988
IZUMI, T.
Magnetic record support
[NASA-TM-77619] 24 p3902 N84-34709
IZUMI, Y.
A study of cirriform clouds over eleven USSR stations
[AD-A130085] 01 p0107 N84-10693
Handbook of geophysics and space environments, Chapter 15, 1963 revision: Atmospheric temperature, density and pressure
[AD-A138846] 13 p2017 N84-23076
IZUTSU, N.
Numerical simulation of autorotation 20 p3168 N84-30118
IZYNEYEV, A. A.
Fiber optic light guides based on polymer coated multicomponent glasses 21 p3487 N84-32100

J

JAAKOLA, T.
Derivation of the properties of the cosmic background radiation from a static world model 09 p1413 N84-19244
JABLOKOW, N.
On-line traffic monitor
[AD-A131356] 02 p0209 N84-11364
JABLONSKI, E. J.
Evaluation of 95 gpm inductors for aqueous film forming foam
[AD-A141242] 18 p2818 N84-27894
JABLONSKI, J.
Assessment of institutional barriers to the use of natural gas fuel in automotive vehicle fleets
[NASA-CR-168183] 05 p0699 N84-14587
JACAVANCO, D. J.
Feed error effects on lens performance
[AD-P003513] 21 p3385 N84-31481
JACKELS, C. F.
Quantum chemical study of methane oxidation species
[NASA-CR-173819] 19 p2987 N84-28928
JACKINSL, P. D.
Radar resonance reflection from sets of plane dielectric layers
[AD-A128680] 01 p0062 N84-10406
JACKLIN, S. A.
Adaptive inverse control for helicopter vibration reduction
[NASA-TM-84336] 02 p0181 N84-11177
JACKSON, A. G.
Characterization of the microstructures of various materials
[AD-A141946] 20 p3152 N84-30017
JACKSON, A. J.
The use of interactive graphics processing in short-range terminal weather forecasting: An initial assessment
[AD-A137165] 11 p1687 N84-21004
An assessment of interactive graphics processing in short-range terminal weather forecasting
[AD-A142706] 20 p3246 N84-30601
JACKSON, B.
R and D decision methods for photovoltaic program planning
[DE84-000011] 12 p1918 N84-22494
JACKSON, C. B.
CDTI target selection criteria
[NASA-CR-3776] 08 p1104 N84-17178
JACKSON, D.
In-flight absolute radiometric calibration of the Thematic Mapper 20 p3208 N84-30383
JACKSON, D. R.
Criteria for nearly omnidirectional radiation patterns for printed antennas
[AD-A143662] 23 p3731 N84-33646
JACKSON, F. C.
Some case studies of ocean wave physical processes utilizing the GSFC airborne radar ocean wave spectrometer 17 p2715 N84-27283
JACKSON, G.
Defect occurrences in the manufacture of large CFC structures and work associated with defects, damage and repair of CFC components 01 p0035 N84-10223
JACKSON, G. A.
Investigation of the RF properties of carbon fibre composite materials
[AD-A140261] 16 p2461 N84-25774
JACKSON, J. D.
Physics, Computer Science and Mathematics Division
[DE84-003915] 09 p1418 N84-19278
JACKSON, J. W., JR.
Imaging X-ray spectrometer
[NASA-CASE-GSC-12682-1] 23 p3749 N84-33765
JACKSON, K. E.
Friction and wear behavior of aluminum and composite airplane skins
[NASA-TP-2262] 08 p1103 N84-17175
JACKSON, L. R.
Structural efficiency studies of corrugated compression panels with curved caps and beaded webs
[NASA-TP-2272] 09 p1329 N84-18675
Aerospace vehicle
[NASA-CASE-LAR-13155-1] 11 p1624 N84-20628
Operational modules for space station construction
[NASA-TM-85772] 12 p1779 N84-21608
Curved cap corrugated sheet
[NASA-CASE-LAR-12884-1] 23 p3700 N84-33450
JACKSON, M.
The United Kingdom SATMaP program
[E84-10002] 04 p0551 N84-13627
JACKSON, M. J.
The use of thematic mapper data for land cover discrimination: Preliminary results from the UK SATMaP programme
[E84-10038] 04 p0551 N84-13631
The use of Thematic Mapper data for land cover discrimination: Preliminary results from the UK Satmap programme 20 p3216 N84-30428
JACKSON, P. J.
Etching of defects on crystal surfaces 06 p0814 N84-15300
JACKSON, P. L.
Reflection and identification studies applied to terrain imaging radar
[AD-A132401] 04 p0520 N84-13419
SAR measurement of sea ice properties during Marginal Ice Zone Experiment (MIZEX) 83 23 p3772 N84-33911
Analysis of bistatic SAR signatures 23 p3777 N84-33947
Digital processing and absolute calibration of a stripmap synthetic aperture radar 23 p3778 N84-33954
JACKSON, R.
Detection and performance of defects in aluminum coated steels
[DE84-004175] 10 p1461 N84-19545
JACKSON, R. D.
In-flight absolute radiometric calibration of the thematic mapper
[E84-10044] 04 p0552 N84-13637
In-flight absolute radiometric calibration of the thematic mapper
[E84-10064] 06 p0865 N84-15633
In-flight absolute radiometric calibration of the Thematic Mapper 13 p2004 N84-23002
JACKSON, R. G.
Proven design + new technology = reliability + economy
[PNR-90199] 13 p1999 N84-22973

JACKSON, R. H.
Design and operation of a collective millimeter-wave free-electron laser
[AD-A131828] 01 p0087 N84-10568
Study of gain, bandwidth, and tunability of a millimeter-wave free-electron laser operating in the collective regime
[AD-A139285] 14 p2151 N84-23884

JACKSON, S. V.
Assessment of fuel cell propulsion systems
[DE84-006323] 15 p2420 N84-25536

JACKSON, T.
The effects of vegetation and soil hydraulic properties on passive microwave sensing of soil moisture: Data report for the 1982 field experiments
[NASA-TM-85106] 07 p1023 N84-16633
Microwave radiometer experiment of soil moisture sensing at BARC test site during summer 1981
[NASA-TM-86056] 14 p2168 N84-23969
Stability of plane near-equidiffusional flames without invoking the constant-density approximation
[AD-P002972] 14 p2201 N84-24208

JACKSON, T. A.
Optical measurements of soot size and number density in a complex flow, swirl-stabilized combustor
15 p2292 N84-24753

JACKSON, T. J.
Aircraft remote sensing of soil moisture and hydrologic parameters, Taylor Creek, Florida, and Little River, Georgia, 1979 data report
[E84-10010] 02 p0236 N84-11548
L band push broom microwave radiometer: Soil moisture verification and time series experiment Delmarva Peninsula
[E84-10084] 10 p1520 N84-19955

JACKSON, T. W.
Turbulence characteristics of swirling flowfields
[NASA-CR-175392] 10 p1490 N84-19744
Turbulence characteristics of swirling flowfields
23 p3687 N84-33371

JACKSON, W. B.
Effects of compensation on light-induced metastable defects in aSi:H
[DE83-016696] 04 p0558 N84-13680

JACKSON, W. L.
Theoretical analysis of a kinematic Stirling-cycle heat pump for space conditioning applications
[DE84-010240] 15 p2344 N84-25072

JACKSON, W. M.
Coaxial measurement of the translational distribution of CS produced in the laser photolysis of CS2 at 193nm
[AD-A134613] 07 p0970 N84-16286

JACKSON, W. P.
Separation as asphaltenes using high-resolution supercritical-fluid chromatography
01 p0038 N84-10240
Capillary supercritical fluid chromatography of polycyclic aromatic compounds
[DE84-002939] 07 p0972 N84-16302

JACKSON, W. R.
Products of photodegradation for coumarin laser dyes
[AD-A136308] 09 p1320 N84-18624
Solvent effects on emission yield and lifetime for coumarin laser dyes. Requirements for a rotatory decay mechanism
[AD-A136358] 09 p1321 N84-18629
Photophysical and photochemical properties of coumarin laser dyes in amphiphilic media
[AD-A136361] 09 p1321 N84-18630

JACOBS, B. E.
Method for accessing distributed heterogeneous databases
11 p1749 N84-21412

JACOBS, C. L.
King's Trough Flank: Geological and geophysical investigations of its suitability for high-level radioactive waste disposal
[IOS-166] 20 p3299 N84-30950

JACOBS, E. W.
The SERI advanced and innovative wind energy concepts program
[DE83-011960] 06 p0873 N84-15680
A theoretical analysis of natural convection towers for solar energy conversion
[DE83-011956] 16 p2512 N84-26118

JACOBS, G. B.
Pulsed heterodyne CO2 laser/scanner system. Volume 1: Assembly report
[AD-A135059] 08 p1164 N84-17577
Pulsed heterodyne CO2 laser/scanner system. Volume 2: Operating instructions
[AD-A135060] 08 p1164 N84-17578

JACOBS, L. P.
Tactical visibility meter
[AD-A141286] 18 p2890 N84-28347

JACOBS, O. L. R.
On optimality OLF control
[OUEL-1493/83] 10 p1567 N84-20263
On equivalence between optimal stochastic control and open-loop feedback control 10 p1567 N84-20264
About equivalence between closed-loop and open-loop feedback controls 10 p1567 N84-20265
A computer package for designing pH regulation systems 15 p2391 N84-25344

JACOBS, P.
KC-135 wing and winglet flight pressure distributions, loads, and wing deflection results with some wind tunnel comparisons 18 p2787 N84-27688

JACOBS, P. A.
Data analysis and modeling of arctic sea ice subsurface roughness
[AD-A133349] 07 p1041 N84-16750
The normal approximation and queue control for response times in a processor-shared computer system model
[AD-A139587] 14 p2210 N84-24263
Low-level stratus prediction using binary statistical regression: A report using Moffett Field data
[AD-A140468] 16 p2551 N84-26370

JACOBS, P. P., JR.
Sidewall boundary layer corrections in subsonic, 2-dimensional airfoil-hydrofoil testing
[AD-A144002] 23 p3691 N84-33391

JACOBS, R. E.
Shuttle detached spacecraft
[AD-A143320] 22 p3541 N84-32417

JACOBS, S. D.
Characterization of micron-sized, optical coating defects by photothermal deflection microscopy
[DE84-011150] 20 p3301 N84-30960

JACOBS, W. A.
Irradiance from stars based on blackbody theory
[NASA-TM-82582] 17 p2775 N84-27617

JACOBSEN, A.
Tracking Data Acquisition System (TDAS) for the 1990's. Volume 6: TDAS navigation system architecture
[NASA-CR-175198] 10 p1434 N84-19374

JACOBSEN, K. E.
HF omnidirectional spectral CW auroral radar (HF-OSCAR) at very high latitude. Part 1: Technique
[DMI-GEOPHYS-PAPERS-R-67]
19 p3010 N84-29079

JACOBSEN, S. E.
A development of logistics management models for the Space Transportation System
[NASA-CR-173504] 14 p2113 N84-23664

JACOBSON, A. R.
Recent results from the ZT-40M reversed-field pinch program
[DE83-014149] 01 p0151 N84-10993
Sustainment dynamo reexamined: Nonlocal electrical conductivity of plasma in a stochastic magnetic field
[DE84-007485] 15 p2412 N84-25478

JACOBSON, B. O.
Lubricant rheology in concentrated contacts
15 p2341 N84-25050

JACOBSON, M. A.
Water resources data for Montana, water year 1982. Volume 1: Hudson Bay Basin, Missouri River Basin
[PB84-117506] 09 p1339 N84-18749
Water resources data for Montana, water year 1982. Volume 2: Columbia River Basin
[PB84-118561] 09 p1340 N84-18752

JACOBSON, M. J.
Influence of horizontally-random bottom structure on acoustic intensity in a shallow ocean
[AD-A141383] 19 p3099 N84-29688

JACOBSON, R.
All solid state CCD image sensor
[BMFT-FB-T-84-046] 19 p3113 N84-29778

JACOBSON, R., JR.
Climatological frequency distributions for Juneau, Alaska
[PB84-154814] 14 p2180 N84-24059

JACOBY, H.
Calculation of performance of an RF-excited transverse flow CO2 laser
[DFVLR-FB-83-06] 05 p0687 N84-14514
Calculation of the performance of an RF excited transverse flow CO2 laser
[ESA-TT-832] 19 p3030 N84-29221

JACOMIN, D. A.
The causation and variability of the northern winter quasi-stationary planetary waves
06 p0877 N84-15705

JACOX, M. E.
Free radical detection and dynamics in propellant ignition and combustion systems
[AD-A142180] 19 p3002 N84-29023

JACQUES, C.
The 400 Hz generators evolution, effects on installation arrangements 03 p0336 N84-12186

JACQUES, R.
Aero/thermodynamic and acoustic considerations in the design of test-beds for turbojets and turbofans
16 p2452 N84-25725

JACQUET, P.
Renovation of the Helice
[SNIAS-832-111-109] 16 p2448 N84-25703

JADVANI, H. M.
Analytical and experimental investigation of rotating blade response due to nozzle passing frequency excitation 10 p1515 N84-19917

JAEGER, E. F.
Ambipolarity and transport with resonant ion diffusion in EBT
[DE84-000333] 04 p0606 N84-14000

JAEGER, H.
Phase transformation study of Cu2S
[AD-A135587] 09 p1279 N84-18352

JAEGER, J.
Analytic solution for the problem of gridded gap-electron flow interaction
[DE84-008975] 20 p3181 N84-30209

JAEGER, L. E.
A computer program for solving the parabolic equation using an implicit finite-difference solution method and incorporating exact interface conditions
[AD-A135325] 08 p1212 N84-17903

JAEKEL, E.
Accurate thermal control of enclosures of optical payloads 10 p1447 N84-19457

JAFARI, A. H.
Some topics in finite elasticity
08 p1169 N84-17614

JAFFE, D. T.
Far-IR selected star formation regions
[NASA-TM-85955] 16 p2574 N84-26521

JAFFE, L. D.
Solar tests of aperture plate materials for solar thermal dish collectors
[NASA-CR-173462] 12 p1842 N84-22010
CONC/11: A computer program for calculating the performance of dish-type solar thermal collectors and power systems
[NASA-CR-173735] 18 p2869 N84-28212
Solar tests of aperture plate materials for solar thermal dish collectors 18 p2672 N84-28233

JAFFE, M. J.
Measurement of thigmomorphogenesis and gravitropism by non-intrusive computerized video image processing
09 p1356 N84-18859
The roles of callose, elicitors and ethylene in thigmomorphogenesis and gravitropism
09 p1356 N84-18860

JAGACINSKI, R. J.
A test of Fitts' law in two dimensions with hand and head movements
[AD-A133347] 07 p1051 N84-16810

JAGANNATH, C.
Infrared nonlinear processes in semiconductors
[AD-A141032] 18 p2940 N84-28649
Infrared nonlinear optics 22 p3682 N84-33346

JAGAU, A.
Evaluation and analysis of experience reports concerning wind shear problems
[DFVLR-FB-83-19] 07 p0949 N84-16159

JAGERS, P.
Branching processes in periodically varying environment
[CTH-MATH-1983-12-PREPRINT]
03 p0426 N84-12792

JAGODA, J. I.
Heterogeneous diffusion flame stabilization: Constant density results 13 p1952 N84-22689

JAHN, H.
CTX: A system for computer-aided indexing
[BMFT-FB-ID-83-006] 02 p0303 N84-11986

JAHNS, G. C.
Interactions of light and gravity on growth, orientation, and lignin biosynthesis in mung beans
09 p1359 N84-18879

JAHODA, F. C.
Current sensing in magnetic fusion experiments by Faraday rotation in single-mode optical fibers
[DE84-004326] 11 p1732 N84-21298
Two novel plasma diagnostics
[DE84-009970] 20 p3305 N84-30990

JAHREISS, H.
Absolute magnitude calibration for red dwarf stars
09 p1411 N84-19231

JAHREN, C. E.
Interpretations of magnetic anomalies at a potential repository site located in the Yucca Mountain area, Nevada test site
[DE84-013723] 23 p3798 N84-34085
JAIN, A. K.
Two dimensional linear prediction models. Part 1. Spectral factorization and realization
[AD-A130954] 02 p0280 N84-11833
JAIN, H.
Prediction of long term crevice corrosion and hydrogen embrittlement behavior of ASTM grade-12 titanium
[DE84-002575] 14 p2128 N84-23759
JAIN, J. L.
Applications of combinatorics to the busy period in several queueing models
[AD-A142492] 20 p3284 N84-30850
JAIN, M. L.
Determination of thermal-degradation rates of some candidate Rankine-cycle organic working fluids for conversion of industrial waste heat into power
[DE84-009585] 20 p3197 N84-30304
Investigation of thermal stability of fluorinol-85 and 2-methylpyridine-water as Rankine cycle power system working fluids
[DE84-006420] 22 p3562 N84-32559
JAIN, R. K.
Phase conjugate optical resonator
[AD-A136071] 09 p1390 N84-19077
JAIN, S. C.
Aggradation and degradation at alluvial-channel beds
[PB84-201557] 22 p3615 N84-32905
JAIN, S. H.
Quantum optics and photonics
22 p3682 N84-33344
JAIN, V. K.
Volterra transfer functions from pulse tests for mildly nonlinear channels
[AD-A135703] 09 p1308 N84-18553
JAJOPAL, A. K.
An alternative approach to quantum statistics
[AD-A131525] 01 p0137 N84-10899
JAKIMIEC, M.
Evaluation of the quality of predictions in the case of a variable with strongly asymmetric distribution
09 p1410 N84-19215
JAKOBS, D. M.
Hybrid stress reduced-Mindlin elements for thin multilayer plates with application to edge contact problems 22 p3608 N84-32857
JAKOBSEN, P.
Rocket observations of the diffuse ultraviolet background 10 p1598 N84-20470
JAKOBSEN, R. J.
Molecular order and solidification processes in organic liquids and solutions
[AD-A141777] 19 p3101 N84-29699
JAKUBOWICZ, O.
The prediction of tropopause height from clusters of brightness temperatures and its application in the stratified regression temperature retrievals using microwave and infrared satellite measurements
12 p1852 N84-22064
Applications of cluster analysis to satellite soundings
12 p1852 N84-22065
JALALI, F.
Characteristics of RF lightning emission at 2 GHz and 250 MHz 06 p0929 N84-16039
JALAN, V.
Chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] 18 p2868 N84-28205
Studies involving high temperature desulfurization/regeneration reactions of metal oxides for fuel cell development
[DE84-003096] 18 p2876 N84-28261
JAMAR, C.
Catalogue of stellar ultraviolet fluxes. A compilation of absolute stellar fluxes measured by the Sky Survey Telescope (S2/68) aboard the ESRO satellite TD-1
15 p2423 N84-25558
JAMES, D. R.
Isotope dependence of the breakdown strength of gases
[DE83-017272] 03 p0373 N84-12430
Current assessment of the potential of dielectric gas mixtures for industrial applications
[DE84-011658] 22 p3588 N84-32724
JAMES, H.
Experimental study and modeling of the kinetics of hydrocarbon combustion 15 p2292 N84-24754
Adsorption of hydrocyanic acid on Lewis acid sites of silicon dioxide 17 p2620 N84-26767
Experimental and theoretical study of NOx by reduction by NHi in gas phase 17 p2724 N84-27340
JAMES, I. D.
The effects of wind waves on sea level at the coast
[IOS-155] 07 p1042 N84-16754
JAMES, J. H.
Fluid layer between infinite elastic plates. I: Mathematics and intensity vectors
[AD-A144373] 24 p3901 N84-34700
JAMES, J. R.
Investigation of new concepts for designing millimetre-wave antennas
[AD-A137350] 10 p1479 N84-19663
JAMES, J. V.
Shot noise limited detection of OH using the technique of laser induced fluorescence
[NASA-CR-175433] 11 p1662 N84-20844
JAMES, L. A.
Miniature center-cracked-tension specimen for fatigue crack growth testing
[DE84-001470] 06 p0862 N84-15615
Fracture-mechanics behavior of neutron-irradiated alloy A-286
[DE84-001467] 07 p0975 N84-16320
JAMES, L. C.
Hybrid space heating/cooling system with Trombe wall, underground venting, and assisted heat pump
[DE84-000406] 04 p0559 N84-13686
JAMES, M. B.
Making electron beams for SLC linac
[DE84-012072] 20 p3293 N84-30907
JAMES, R. L., JR.
Airframe technology for aircraft energy efficiency
[NASA-TM-85749] 09 p1249 N84-18154
JAMES, S. D.
Investigation of the electrochemical formation of Li-C intercalation compounds
[AD-A130879] 01 p0037 N84-10233
JAMES, S. E.
Technical and economic analysis of the planned visual display terminal employment for the Stock Point Logistics Integrated Communications Environment (SPLICE)
[AD-A133642] 05 p0719 N84-14711
JAMES, W. F.
Aquatic plant control research program. Effects of endothall treatment on phosphorus concentration and community metabolism of aquatic communities
[AD-A141830] 19 p3052 N84-29370
JAMES, W. J.
Neutron diffraction studies of some rare earth-transition metal deuterides
[AD-A140757] 17 p2764 N84-27557
JAMES, W. L.
Effect of mechanical stress on the dielectric properties of wood
[AD-A140608] 17 p2680 N84-27069
JAMESON, A.
Automatic adaptive grid refinement for the Euler equations
[NASA-CR-173161] 08 p1222 N84-17977
JAMESON, R. A.
Ion-source and ion-accelerator development at Los Alamos
[DE83-014123] 01 p0146 N84-10959
New directions in linear accelerators
[DE84-011412] 20 p3294 N84-30911
JAMIL, M.
Engineering and technical services to improve reliability and maintainability of instrument landing system components
[DOT/FAA/PM-84/7] 11 p1604 N84-20503
JAMISON, E. S.
Advanced composite elevator for Boeing 727 aircraft. Volume 1: Technical summary
[NASA-CR-3290] 18 p2792 N84-27722
JAMISON, R. D.
Advanced fatigue damage development in graphite epoxy laminates
[AD-A130190] 01 p0031 N84-10194
Advanced fatigue damage development in graphite epoxy laminates 02 p0187 N84-11216
Assessment of microdamage development during tensile loading of graphite/epoxy laminates
[AD-A139128] 14 p2119 N84-23701
JAMISON, R. G.
Identification and characterization of elastomer vulcanizate materials using pyrolytic gas liquid phase chromatography
[AD-A134056] 05 p0658 N84-14325
JAMROS, R. K.
A device-dependent interface for interactive image display
[NASA-TM-86136] 21 p3461 N84-31949
JANAKIRAM, D. S.
Noise reduction experience at Hughes Helicopter, Inc.
19 p3096 N84-29666
JANARDAN, B. A.
Experimental investigation of shock-cell noise reduction for dual-stream nozzles in simulated flight comprehensive data report. Volume 1: Test nozzles and acoustic data
[NASA-CR-168336-VOL-1] 14 p2220 N84-24323
Experimental investigation of shock-cell noise reduction for dual-stream nozzles in simulated flight comprehensive data report. Volume 2: Laser velocimeter data, static pressures and shadowgraph photos
[NASA-CR-168336-VOL-2] 14 p2220 N84-24324
Free jet feasibility study of a thermal acoustic shield concept for AST/VCE application: Single stream nozzles
[NASA-CR-3758] 19 p3096 N84-29661
Experimental investigation of shock-cell noise reduction for single-stream nozzles in simulated flight, comprehensive data report. Volume 1: Test nozzles and acoustic data
[NASA-CR-168234-VOL-1] 22 p3652 N84-33148
Experimental investigation of shock-cell noise reduction for single-stream nozzles in simulated flight, comprehensive data report. Volume 2: Laser velocimeter data
[NASA-CR-168234-VOL-2] 22 p3652 N84-33149
Experimental investigation of shock-cell noise reduction for single-stream nozzles in simulated flight, comprehensive data report. Volume 3: Shadowgraph photos and facility description
[NASA-CR-168234-VOL-3] 22 p3652 N84-33150
JANATA, J.
Electrochemistry of chemically sensitive field effect transistors
[AD-A133984] 05 p0674 N84-14427
JANAUER, G. E.
Biocidal quaternary ammonium resin
[NASA-CR-171802] 19 p3083 N84-29433
JANDL, O.
Axisymmetric MHD equilibria with flow
[IPP-6/230] 13 p2044 N84-23262
JANEKE, C. E.
Free cooling: A total HVAC design concept
11 p1640 N84-20723
JANES, K. A.
A preliminary analysis of a diode array for densitometry 18 p2842 N84-28045
JANES, S.
A contribution to the manufacture and characteristics of steel-wire-reinforced aluminum
[NASA-TM-76977] 07 p0974 N84-16310
JANESICK, J. R.
Laser pulse detection method and apparatus
[NASA-CASE-NPO-16030-1] 15 p2339 N84-25037
JANETZKE, D. C.
Use of the WEST-1 wind turbine simulator to predict blade fatigue load distribution
[NASA-TM-83532] 05 p0699 N84-14586
JANG, S. W.
A NDT ignition delay predictive tool
20 p3143 N84-29958
JANGHORBANI, M.
Development of analytical methodology for the measurement of chlorine and bromine in the stratosphere
[AD-A132640] 05 p0703 N84-14614
JANIKOWSKY, L. C.
Representation of potential flow about axisymmetric bodies with discrete singularities
[AD-A143526] 22 p3594 N84-32760
JANKE, D.
The evaporation of iron and its alloying elements, copper and manganese, under reduced pressure using the levitation melting technique
[BLL-OA-TRANS-3117-(6196.3)]
09 p1281 N84-18367
JANKOWICZ, Z.
Preliminary investigations of 360 kJ plasma focus device, part 2 10 p1581 N84-20359
The optimization method for the Mather plasma focus device 10 p1583 N84-20377
JANKOWSKI, R.
Telecommunications (selected articles)
[AD-A131872] 03 p0361 N84-12346
JANKOWSKY, E. J.
Aluminum-manganese plating from a molten salt bath
[AD-A135240] 08 p1131 N84-17356
JANNER, A.
Experimental investigation of 4-dimensional superspace crystals
[DE84-009239] 19 p3112 N84-29775
JANNEY, J. L.
Deuterium isotope effects in HMX thermochemical mechanisms: Decomposition, deflagration, and combustion 13 p1950 N84-22680

JANOCKO, M. A.
Thin film technology of high-critical-temperature superconducting electronics
[AD-A136722] 10 p1589 N84-20411

JANOFF, M. S.
Evaluating and quantifying user perception of pavement serviceability
[PB83-207308] 01 p0058 N84-10375

JANOWITZ, M. F.
A model for ordinal filtering of digital images
[AD-A134705] 08 p1232 N84-18052
Cluster analysis package for image segmentation
[AD-P003117] 16 p2532 N84-26258
On the semilattice of weak orders of a set
[AD-A144631] 24 p3952 N84-35023

JANSA, J.
Rectification of multispectral scanner images
[GEOWISS-MITT-24-1983] 03 p0402 N84-12628

JANSEN, M.
Nd-3+ Beta prime prime alumina platelet laser
[AD-A142797] 21 p3409 N84-31621

JANSKY, J. H.
Correlation of LANDSAT and air photo linears with roof control problems and geologic features
[PB83-250852] 04 p0555 N84-13656

JANSSEN, G. T. M.
Experimental verification of constitutive equations for plasticity under biaxial, cyclic and nonradial loading conditions
[REPT-5011202-81-1] 17 p2625 N84-26798
Prediction of ductile crack growth in the austenitic steel WN 1.4948 at ambient and elevated temperature
[REPT-5011202-81-2] 17 p2625 N84-26799

JANSSEN, M. A.
Saturn's rings: 3-mm low-inclination observations and derived properties
[NASA-TM-87363] 23 p3844 N84-34387

JANSSEN, W. A.
A recursive linear predictive vocoder
[AD-A138008] 12 p1805 N84-21770

JANSSENS, F.
Derivation and combination of impedance matrices for flexible satellites
[ESA-STR-209] 12 p1778 N84-21604

JANSSENS, P.
A viscid inviscid interaction procedure for two dimensional cascades 07 p0955 N84-16191

JANVE, A. V.
An oscillating capacity electrometer for space applications
[IFSI-84-6] 18 p2807 N84-27823
Space charge around conductors at high potential magnetoplasma
[IFSI-84-4] 18 p2934 N84-28608
Beam plasma discharge in space and laboratory
[IFSI-84-5] 18 p2934 N84-28609

JAQUA, V. W.
Atomization and mixing study
[NASA-CR-170943] 06 p0834 N84-15428

JARAMILLO, S. A.
Using photoconductivity to improve image-tube gating speeds
[DE84-001732] 05 p0676 N84-14443
Nanosecond image-shuttering studies at Los Alamos National Laboratory
[DE84-001733] 06 p0830 N84-15405

JARBOE, T. R.
Space resolved absolutely calibrated VUV spectroscopic measurements on CTX
[DE84-007490] 20 p3304 N84-30984
Mixed mode operation in CTX
[DE84-007493] 20 p3304 N84-30985
Ohmic heating to 100-eV and helicity injection in CTX
[DE84-007494] 20 p3304 N84-30986
Confinement time and energy balance in the CTX spheromak
[DE84-007492] 20 p3304 N84-30987

JARDIM, J. O. D.
Telescope calibration for gamma spectroscopy with a new Ge(Li) diode configuration
[INPE-2885-PRE/407] 04 p0619 N84-14083

JARDIM, M. V. A.
Solar wind energy transfer to the terrestrial magnetosphere by magnetic junction in the magnetopause
[INPE-2848-RPE/439] 02 p0247 N84-11617
Observations of galactic center for annihilation line at 0.511 MeV
[INPE-2907-PRE/421] 02 p0305 N84-12000
Telescope calibration for gamma spectroscopy with a new Ge(Li) diode configuration
[INPE-2885-PRE/407] 04 p0619 N84-14083

JARGON, F.
Cladding of carbon steel with stainless steel
[BMFT-FB-T-84-030] 18 p2816 N84-27877

JARLSKOG, C.
Flavor mixing and the six quark model
[USIP-84-08] 20 p3298 N84-30940

JAROS, J.
Development of real-time error ellipses as an indicator of Kalman filter performance
[AD-A143698] 23 p3812 N84-34174

JAROSS, R. A.
State-of-the-art of solid-state motor controllers. Part 4: Failure-rate and failure-mode data
[DE84-001022] 08 p1152 N84-17502

JAROSZ, C. J.
Evaluation of map symbols for a computer generated topographic display: Transfer of training, symbol confusion, and association value studies
[AD-A133590] 06 p0866 N84-15643

JARRELL, J. A.
Molecule microscopy 22 p3681 N84-33337

JARRELL, J. D.
Tropical cyclone wind probability forecasting for the southern hemisphere (WINDPSH)
[AD-A136146] 09 p1350 N84-18817
Forecast aids for predicting tropical cyclone associated gusts and sustained winds for Agana, Hong Kong, Kadena and Misawa
[AD-A137846] 11 p1687 N84-21001
Tropical cyclone sea-state probability model development and application
[AD-A142212] 19 p3059 N84-29407

JARRETT, J. R.
Automated administrative data bases
11 p1749 N84-21411
Administrative automation in a scientific environment
22 p3671 N84-33269

JARRETT, R. N.
Effects of cobalt in nickel-base superalloys
[NASA-CR-168308] 05 p0652 N84-14287
The role of cobalt on the creep of Waspaloy
[NASA-CR-174628] 10 p1458 N84-19523

JARVINEN, B. R.
Tropical cyclone data tape for the North Atlantic Basin, 1886 - 1983: Contents, limitations and uses
[NOAA-TM-MWS-NHC-22] 16 p2531 N84-26252

JARVIS, N. L.
Phthalocyanine derivatives specifically designed for fabrication of organic semiconductor gas sensors
[AD-A130611] 01 p0083 N84-10540
Optical waveguide gas sensors
[AD-A130629] 01 p0148 N84-10969

JASAS, G.
Gas-turbine demonstration of pyrolysis-derived fuels
[DE83-013610] 01 p0053 N84-10342

JASCHEK, C.
IUE low dispersion spectra reference atlas. Part 1: Normal stars
[ESA-SP-1052-PT-1] 16 p2576 N84-26531
IUE low dispersion spectra reference atlas
24 p3976 N84-35179

JASCHEK, M.
IUE low dispersion spectra reference atlas. Part 1: Normal stars
[ESA-SP-1052-PT-1] 16 p2576 N84-26531
IUE low dispersion spectra reference atlas
24 p3976 N84-35179

JASCHINSKI, W.
Development of low cost amorphous materials with high saturation flux density
[BMFT-FB-T-83-213] 10 p1463 N84-19558

JASIM, D. S.
Effect of preferred orientation on crack growth properties of Ti-6Al-4V alloys, part 2
[BR89101-PT-2] 15 p2296 N84-24780
Effect of preferred orientation on crack growth properties of Ti-6Al-4V alloys, part 1
[BR89100-PT-1] 15 p2299 N84-24802

JASKOLLA, F.
Use of remote sensing methods for the ecological mapping project of the European community
03 p0395 N84-12580
Remote sensing for geology 08 p1177 N84-17668
The Pilbara district in northwestern Australia: A case study for the geological application of Modular Optoelectronic Multispectral Scanner (MOMS) and LANDSAT data 23 p3765 N84-33867
The applicability of improved remote sensing data for lithological and structural mapping
23 p3770 N84-33899

JASPER, G.
Atmospheric environment for space shuttle (STS-13) launch
[NASA-TM-82588] 19 p3057 N84-29396

JASPERS, R.
Treatment of patients with a lesion of the brachial plexus 20 p3264 N84-30712

JASPERSON, W. H.
Temperature histories of commercial flights at severe conditions from GASP data
[NASA-CR-168247] 02 p0175 N84-11152
Tabulations of ambient ozone data obtained by GASP (Global Air Sampling Program) airliners, March 1975 to July 1979
[NASA-TM-82742] 09 p1348 N84-18806
Tabulations of ozonesonde data, 1963 - 1980
[NASA-CR-174631] 17 p2733 N84-27375
Climatology of ozone at altitudes from 19,000 at 59,000 feet based on combined GASP and ozonesonde data
[NASA-TP-2303] 21 p3446 N84-31865
GASP cloud- and particle-encounter statistics and their application to LPC aircraft studies. Volume 1: Analysis and conclusions
[NASA-TM-85835] 24 p3923 N84-34828

JASSEM, W.
Segmentation of the speech signal based on changes in energy distribution in the spectrum
[ISSN-0208-5658] 23 p3729 N84-33635

JASUJA, A. K.
Effects of airblast atomizer design upon spray quality
15 p2290 N84-24744

JAULENT, J. F.
Infinitesimal L-classes of a group of algebraic numbers
22 p3635 N84-33039

JAUNCEY, D. L.
Results of the Australian geodetic VLBI experiment
04 p0520 N84-13416
Arcsecond positions for milliarcsecond VLBI nuclei of extragalactic radio sources, part 2: 207 sources
16 p2478 N84-25890

JAVID, S. H.
Method for determining how to operate and control wind turbine arrays in utility systems
[DE84-005817] 12 p1813 N84-21817

JAY, J. G.
FEED (Field exploitation of Elevation Data) software documentation
[AD-A137977] 12 p1879 N84-22246

JAYACHANDRAN, T.
The CEMS (Comprehensive Engine Management System) IV OAP (Oil Analysis Program) algorithm
[AD-A131055] 01 p0011 N84-10072

JAYANTHI, U. B.
Observations of galactic center for annihilation line at 0.511 MeV
[INPE-2907-PRE/421] 02 p0305 N84-12000

JAYARAJAN, A.
The need for application of dynamic mechanical analysis in the evaluation of interlayer materials
[AD-P003211] 17 p2594 N84-26624

JAYARAMAN, A.
Measurement of nitric oxide in the equatorial D-region and other relevant parameters
[IWF-8304] 17 p2728 N84-27365

JAYARAMAN, R.
An experimental study of the dynamics of an unsteady turbulent boundary layer 02 p0221 N84-11452

JEANFILS, C. L.
Solidification study of some Ni- and Co-base alloys
24 p3882 N84-34596

JEANROND, H.
Ada-Europe guidelines for the portability of Ada programs, second edition
[NPL-DITC-27/83] 03 p0419 N84-12739

JECHEL, K.
Heat transfer measurements in cold wind tunnels
[AD-A135740] 09 p1315 N84-18591

JECK, R. K.
A new data base of supercooled cloud variables for altitudes up to 10,000 ft. AGL and the implications for low altitude aircraft icing
[DOT/FAA/CT-83/21] 07 p1036 N84-16718

JEDLICKA, P.
Deflocculation of clay suspensions using sodium polyacrylates
[NASA-TM-77432] 14 p2121 N84-23712

JEDLOVEC, G. J.
Application of VISSR Atmospheric Sounder (VAS) data
[NASA-TM-82574] 13 p2016 N84-23073
Mesoscale analysis of VAS 6.7 micron image data for several case studies 24 p3930 N84-34873
An application of VISSR atmospheric sounder (VAS) data in mesoscale analysis 24 p3930 N84-34874
A statistical evaluation and comparison of VISSR Atmospheric Sounder (VAS) data
24 p3932 N84-34892
Sensor studies and space flight opportunities
24 p3933 N84-34896

JEFFERSON, D. A.
Crystallization of the glassy phase of grain boundaries in silicon nitride
[NASA-TM-77466] 16 p2560 N84-26421

JEFFREY, A. M.
Versatility of laser induced fluorescence line narrowing in chemical analysis
[DE84-012834] 21 p3360 N84-31316
JEFFREY, J. A.
Application guidelines for quality assurance procedures for hybrid microcircuits
[AD-A131395] 02 p0214 N84-11405
JEFFRIES, K. S.
Parametric analysis of hollow conductor parallel and coaxial transmission lines for high frequency space power distribution
[NASA-TM-83601] 11 p1625 N84-20639
JELL, R. M.
Vestibulo-ocular reflex gain in man during active versus passive oscillation and the influence of voluntary gaze-control tasks
[AD-A132006] 03 p0415 N84-12717
JENDO, S.
Multicriterion optimization of construction
[ISSN-0208-5658] 23 p3759 N84-33822
JENDRZEJCZYK, J. A.
Nonlinear stability control
[DE83-014341] 01 p0082 N84-10532
Dynamics of tubes in fluid with tube-baffle interaction
[DE84-001452] 07 p1003 N84-16508
Experiments on tubes conveying fluid
[DE84-004031] 20 p3185 N84-30237
Stability of tubes conveying fluid
[DE84-010573] 20 p3185 N84-30240
Dynamic characteristics of heat exchanger tubes vibrating in a tube support plate inactive mode
[DE84-014844] 23 p3761 N84-33840
JENKINS, A.
Application of methods of numerical and software engineering analysis to physical and engineering data collected in a variety of laboratory and field measurement programs
[AD-A137863] 11 p1682 N84-20975
JENKINS, C. M.
Measurement of electromagnetic shower position and size with a saturated avalanche tube hodoscope and a fine grained scintillation hodoscope
[DE84-007247] 15 p2337 N84-25032
JENKINS, D.
ARDS (Automated Requirements Development System) user's manual. Volume 1: Document analysis, revision
[AD-A135925] 09 p1398 N84-19128
JENKINS, J. M.
Effect of creep in titanium alloy Ti-6Al-4V at elevated temperature on aircraft design and flight test
[NASA-TM-86033] 09 p1330 N84-18685
JENKINS, K. L.
Orbital motion of a freely coning solar sail
[AD-A136794] 10 p1435 N84-19381
JENKINS, L. B.
A review of classical silicate-rock analysis and recommended modifications of classical methods of analysis
[USGS-CIRC-864] 14 p2175 N84-24027
JENKINS, L. H.
Solid-State Division
[DE84-000296] 04 p0613 N84-14045
JENKINS, N.
A study of atmospheric transmission in the wavelength regions of 0.35 micrometers to 14 micrometers
[AD-A135721] 09 p1302 N84-18510
JENKINS, R. V.
Reynolds number tests of an NPL 9510 airfoil in the Langley 0.3-meter transonic cryogenic tunnel
[NASA-TM-85663] 02 p0173 N84-11141
Tabulation of data from tests of an NPL 9510 airfoil in the Langley 0.3-meter transonic cryogenic tunnel
[NASA-TM-84579] 04 p0479 N84-13151
Data from tests of a R4 airfoil in the Langley 0.3-meter transonic cryogenic tunnel
[NASA-TM-85739] 23 p3690 N84-33385
JENKINS, T. F.
Transport of water in frozen soil. I: Experimental determination of soil-water diffusivity under isothermal conditions
[AD-A135419] 08 p1177 N84-17671
JENKINS, T. M.
Temperature rise calculations for the beam pipe in the SLC arcs
[DE84-011764] 20 p3295 N84-30924
JENKINSON, L.
Results of a questionnaire on the teaching of Computer-Aided Engineering (CAE) on undergraduate courses
[TT-8404] 24 p3937 N84-34919
JENKNER, H.
Astronomical and statistical algorithms used in the Space Telescope guide star selection system
09 p1409 N84-19206
A microprocessor-based control system for the Vienna PDS microdensitometer 18 p2841 N84-28037
JENKS, G. J.
Detonation parameters for Australian high-explosives composition
[MRL-R-822] 17 p2628 N84-26812
Detonation parameters for Australian high-explosives composition
[AD-A143655] 23 p3726 N84-33609
JENNE, E. A.
MINTEQ: A computer program for calculating aqueous geochemical equilibria
[PB84-157148] 12 p1795 N84-21704
JENNEY, G. D.
A digital linear position sensor for flight control actuation
[AD-A144283] 24 p3856 N84-34446
JENNINGS, A.
Eigenvalue methods for vibration analysis 2
10 p1507 N84-19865
JENNINGS, C. W.
Insulation-resistance measurements of coated and uncoated printed wiring boards
[DE83-015457] 01 p0074 N84-10489
JENNINGS, D. E.
The 12 micron band of ethane: A spectral catalog from 765 cm(-1) to 900 cm(-1)
[NASA-TM-85108] 10 p1454 N84-19493
JENNINGS, E.
Hypothesis identification in the case of the missing cell
[AD-A134553] 07 p1063 N84-16895
JENNINGS, L. D.
The polarization ratio of crystal monochromators
[AD-A133181] 06 p0847 N84-15524
JENNINGS, R.
A candidate programming language
[AD-A138433] 12 p1883 N84-22274
JENNINGS, S. G.
Electro-optical transmission and liquid water content of fogs and clouds
[AD-A134307] 07 p1039 N84-16738
Electro-optical transmission and liquid water content of fogs and clouds
[AD-A142294] 20 p3245 N84-30597
JENNISON, R. C.
Multiple-foil microabrasion package (A0023)
15 p2276 N84-24666
JENNY, D. S.
State of the art: Design for noise I
19 p3099 N84-29682
JENSEN, B.
Infrared absorption spectrum of free carriers in polar semiconductors
[DE84-013276] 22 p3667 N84-33248
JENSEN, B. J.
Phenoxy resins containing pendent ethynyl groups
[NASA-TM-85747] 07 p0978 N84-16338
Sulfone-ester polymers containing pendent ethynyl groups
[NASA-CASE-LAR-13316-1] 19 p2996 N84-28987
JENSEN, D. B.
BETA: A program for calculating and archiving backscattering profiles taken with the NOAA National Oceanic and Atmospheric Administration) coherent lidar system
[PB84-150168] 14 p2177 N84-24040
JENSEN, D. W.
Derivations of a prime ring which satisfy a polynomial identity
[AD-A135435] 08 p1220 N84-17963
JENSEN, J. E.
Effects of cyclohexyl groups and ortho-substituents on the viscosity of ester liquid crystal components
[AD-A143028] 21 p3504 N84-32205
JENSEN, J. K.
Conceptual design of a mobile remote manipulator system 19 p2982 N84-28894
JENSEN, K. A.
Boundary layers in cataclysmic variables: The HEAO-1 X-ray constraints
[NASA-TM-85112] 03 p0463 N84-13046
X-ray observations of cataclysmic variables
06 p0936 N84-16084
Beam impingement angle effects on secondary electron emission characteristics of textured pyrolytic graphite
[NASA-TP-2285] 09 p1286 N84-18400
Secondary electron emission characteristics of ion-textured copper and high-purity isotropic graphite surfaces
[NASA-TP-2342] 19 p2997 N84-28989
JENSEN, L. S.
The Archean crust in the Wawa-Chapleau-Timmins region. A field guidebook prepared for the 1983 Archean Geochemistry-Early Crustal Genesis Field Conference
11 p1681 N84-20969
JENSEN, M. H.
Commensurability, chaos, and the devil's staircase
[DE83-013280] 03 p0454 N84-12987
JENSEN, N. E.
Development of a slotted waveguide array panel for SAR antenna: Electrical design and testing
[IEC-MO-80/11] 23 p3732 N84-33656
JENSEN, R. E.
Methodology for the calculation of a shallow-water wave climate
[AD-A134715] 08 p1195 N84-17792
JENSEN, R. K.
Time-temperature studies of high temperature deterioration phenomena in lubricant systems: Synthetic ester lubricants
[AD-A135464] 08 p1166 N84-17594
JENSEN, T. H.
Reduced equations in three dimensional geometry
[DE84-009401] 20 p3282 N84-30841
JENSEN, V. S.
Analysis of the pilot conversion process for the Air Force T-46A jet trainer aircraft
[AD-A134404] 08 p1203 N84-17845
JENSSEN, H. P.
Spectroscopic evaluation of Nd(3+):CAMGAR and H sub o(3+):YLF as 0.94 micrometer lasers
[AD-A137610] 11 p1662 N84-20845
JEON, G. J.
Vibration control of large linear quadratic symmetric systems
[NASA-CR-174536] 01 p0093 N84-10608
JEPPS, G.
Linearised optimal control and application to a gliding projectile
[AD-A135605] 09 p1271 N84-18305
JEPPSON, M. R.
Microwave methods and apparatus for paving and paving maintenance
[DE84-016306] 06 p0822 N84-15359
JERABEK, M.
Analysis of electrical accident prevention countermeasures
[PB84-102987] 08 p1207 N84-17869
JERDEE, B.
Embedded information transfer technology assessment
[AD-A142649] 21 p3391 N84-31518
JERINA, K. L.
Structure and properties of polyethylene
[PB83-243931] 02 p0202 N84-11316
JERNIGAN, T. C.
Design of the Advanced Toroidal Facility (ATF-1)
[DE83-012641] 03 p0445 N84-12923
JERZYKIEWICZ, A.
Preliminary investigations of 360 kJ plasma focus device, part 2 10 p1581 N84-20359
JESCHKE, A.
New digital Integrated Circuit (IC) concept for color TV receivers
[BMFT-FB-T-83-261] 10 p1488 N84-19729
JESPERSEN, D. C.
Recent developments in multigrid methods for the steady Euler equations 16 p2492 N84-25988
Enthalpy damping for the steady Euler equations
[NASA-TM-86008] 24 p3950 N84-35009
JESSBERGER, E.
Chemical and isotopic measurements of micrometeoroids by secondary ion mass spectrometry (A0187-2) 15 p2276 N84-24670
JESSEN, J. M.
Pioneer 10 and Voyager observations of the interstellar medium in scattered emission of the He584 A and H Lya 1216 A lines
[NASA-CR-173931] 23 p3840 N84-34361
JESSEN, K.
Aeromedical support of helicopter medical evacuation and rescue operations 16 p2537 N84-26289
Handling of hydrazine in the Royal Danish Air Force
22 p3631 N84-33014
JESSL, P.
Development of generic mobility-terrain data bases: Investigation of critical soil parameters
[AD-A133595] 06 p0878 N84-15715
JESSUP, D. A.
Resonance ionization spectroscopy measurement of the vapor pressure of several molecular species
[DE84-010656] 21 p3409 N84-31624
JETT, J. H.
Approach to single-molecule detection by laser-induced fluorescence
[DE84-001338] 04 p0542 N84-13572
Prospects for single-molecule detection in liquids by laser-induced fluorescence
[DE84-001702] 09 p1324 N84-18647

JETT, M. D.
Phase and volumetric studies for methane/synthesis gas separations: The hydrogen-carbon monoxide-methane system
[PB84-214394] 21 p3375 N84-31417
JEWELL, J. L.
Advances in GaAs bistable optical devices
14 p2233 N84-24394
Optical flip-flop system
[AD-D011165] 23 p3825 N84-34261
JEWELL, W. S.
A general framework for learning curve reliability growth models
[AD-A132277] 04 p0546 N84-13596
Approximating the distribution of a dynamic risk portfolio
[AD-A136039] 09 p1383 N84-19035
JEWETT, D. N.
Low angle silicon sheet growth: A review of progress, problems and promise 18 p2938 N84-28631
JEWITT, D. C.
Part 1: Physical studies of distant comets. Part 2: Morphologies of planetary nebulae
06 p0937 N84-16091
JEYARATNAM, S.
An estimation problem relating to subset selection for normal populations
[AD-A133387] 06 p0904 N84-15870
JEZERC, J. J.
Properties of UV-cured polyurethane acrylates: Effect of polyol type and molecular weight
[AD-A143176] 22 p3559 N84-32537
JHA, V. K.
Computer aided synthesis of a satellite antenna structure with probabilistic constraints 10 p1512 N84-19899
Dynamic behaviour of a satellite antenna structure in random vibration environment 10 p1512 N84-19900
JHAVERI, S.
Physiology 22 p3684 N84-33363
JHINGRAN, S.
High resolution bone mineral densitometry with a gamma camera
[NASA-TM-85386] 18 p2899 N84-28391
JI, C.
Particle scattering studies on foreign ions in superionic conductors
[AD-A137231] 10 p1588 N84-20406
JI, H. C.
Review and assessment of USAF and US Army (HISS) artificial icing cloud studies
[AD-A135720] 09 p1349 N84-18814
JIA, R. Q.
Local linear independence of the translates of a box spline
[AD-A141749] 19 p3087 N84-29599
On the controlled approximation order from certain spaces of smooth bivariate splines
[AD-A142868] 21 p3472 N84-32004
JIACHI, Y.
Journal of the Chinese Society of Astronautics (selected articles)
[AD-A131032] 02 p0183 N84-11191
JIAN, H.
Re-entry and simulation
[AD-A135515] 08 p1108 N84-17201
JIAN, H. M.
Model study of the atmospheric frontogenesis. 2: Theoretical model 24 p3956 N84-35047
JIANG, D. P. W.
A fault-tolerant distributed computer network design and analysis for an integrated flight control system
03 p0336 N84-12189
JIANG, X.
Transactions of the Chinese Solar Energy Society (selected articles)
[AD-A131870] 03 p0403 N84-12637
JIE, O.
Effect of the overload ratio on fatigue growth behavior in Ti-6Al-4V
[AD-A136027] 09 p1283 N84-18381
JIESTER, T. R.
Flow-visualization study of the MOD-2 wind-turbine wake
[DE83-014391] 01 p0080 N84-10523
JILEK, J.
Monolithic 8-bit converter 24 p3960 N84-35073
JILLIE, D. W.
S-I-S mm-wave mixers and detectors
[AD-A134762] 08 p1235 N84-18074
Tunneling through amorphous silicon barriers
[AD-A135866] 09 p1395 N84-19110
JIMA, T.
Remote sensing of rain by an airborne dual-frequency microwave scatterometer/radiometer
23 p3774 N84-33927
JIMENEZ, J.
Planning an experiment for digital image processing
16 p2490 N84-25976
Post-processing: Extracting and displaying useful information from digital images
16 p2491 N84-25977
JIN, M.
Performance evaluation of the JPL interim digital SAR processor 07 p0989 N84-16407
Design of array processor software for nonlinear structural analysis
[AD-A137767] 11 p1706 N84-21124
Post-buckling behavior of elastic frame structures
17 p2679 N84-27062
JIN, T.
Human behavior 04 p0511 N84-13351
Studies of emotional instability in smoke from fires: Decrease of thinking powers and of memory in fire smoke 04 p0511 N84-13355
JING-TONG, J.
COMEDG: A program to combine logically independent line segments into geometrically coherent lines
20 p3226 N84-30499
JING, R. W.
Digital color space transformations
23 p3779 N84-33960
JINGBO, G.
For the sacred air space of our homeland
[AD-A137189] 11 p1599 N84-20476
JINGO, N.
Influence of unbalanced three-phase current on characteristics of high-speed LIM
07 p0983 N84-16365
JINJI, Y.
Plasma focus research in China
10 p1581 N84-20361
JINTE, Y.
A method to estimate the vertical dispersion parameter in a 10 Km range
[AD-A137192] 11 p1683 N84-20982
JINYOU, W.
Effect of transformed beta morphology and other structural features on mechanical properties in Ti-6Al-4V
[AD-A136028] 09 p1283 N84-18382
JINYUN, Y.
Gaussian quadrature formulae for tetrahedronal regions
[ISD-307] 15 p2396 N84-25377
JINZHONG, W.
The oceangoing space survey ship, the Wang Yuan
[AD-A135514] 08 p1108 N84-17204
JIRACEK, G. R.
Terrain effects in resistivity and magnetotelluric surveys
[DE83-014084] 02 p0240 N84-11575
JIROMARU, N.
Sprinklers 04 p0510 N84-13345
JIRONG, Z.
Journal on Numerical Methods and Computer Applications (selected articles)
[AD-A134752] 08 p1220 N84-17967
JO, J. H.
Assessment of TRAC-PF1 and RELAP5/MOD1 codes with GE large-vessel blowdown test
[DE83-015384] 03 p0438 N84-12874
JOAG-DEV, K.
Recurrence of symmetric random walks
[AD-A133807] 05 p0739 N84-14855
The Gauss-Tchebyshev inequality for unimodal distributions
[AD-A133760] 05 p0739 N84-14857
JOANNIC, Y.
Robustness quantification for nonlinear sampled-data systems with dynamic multiplicative perturbations
16 p2476 N84-25871
JOANNOPOULOS, J. D.
Semiconductor surface studies
22 p3681 N84-33338
JOBE, M. D.
Grit blasting a distributed roughness based on a 30% probability of exceedence
[AD-A138779] 13 p1974 N84-22809
JOBE, R. K.
New control system for the SLAC accelerator klystrons for SLC
[DE83-012706] 01 p0073 N84-10480
Acceleration of high charge density electron beams in the SLAC linac
[DE84-012415] 21 p3497 N84-32161
JOBSON, D. J.
Edge analyzing properties of center/surround response functions in cybernetic vision
[NASA-TM-85809] 16 p2484 N84-25927
JOCHEMCZYK, H.
Investigation of the combination of geodetic point aggregations
[SER-C-285] 18 p2866 N84-28199
JOEHNK, J. M.
Fatigue behavior of welded joints subjected to variable amplitude stresses
[PB84-207620] 22 p3612 N84-32888
JOENSSON, U.
Immobilization of biomolecules on semiconductor surfaces
[FOA-C-40178-C2(B2,A3)] 06 p0831 N84-15408
JOERCK, H.
Design of wind shear filters
[NASA-TM-77460] 19 p2968 N84-28808
JOESTLEIN, H.
Automatic beam centering at the SSC interaction regions
[DE84-010710] 20 p3292 N84-30902
JOG, C. J.
Two-fluid gravitational instabilities in a galactic disk
02 p0305 N84-11998
JOHANNESEN, R. B.
Characterization of organometallic polymers by chromatographic methods and nuclear magnetic resonance, part 2
[PB84-183599] 20 p3165 N84-30100
JOHANNESSEN, J. A.
Application of remote sensing for studies, mapping and forecasting of eddies on the Norwegian continental shelf
03 p0399 N84-12605
Remote sensing of the marginal ice zone during Marginal Ice Zone Experiment (MIZEX) 83
23 p3772 N84-33910
Eddy studies during Marginal Ice Zone Experiment (MIZEX) 83 by ship and remote sensing observations
23 p3772 N84-33914
JOHANNESSEN, O. M.
Application of remote sensing for studies, mapping and forecasting of eddies on the Norwegian continental shelf
03 p0399 N84-12605
MIZEX: A program for mesoscale air-ice-ocean interaction experiments in Arctic marginal ice zones. 2: A science plan for a summer marginal ice zone experiment in the Fram Strait/Greenland sea: 1984
[AD-A134872] 08 p1187 N84-17737
Eddy studies during Marginal Ice Zone Experiment (MIZEX) 83 by ship and remote sensing observations
23 p3772 N84-33914
Seasonal ice variation in the Barents Sea obtained from the Nimbus 7 Scanning Multichannel Microwave Radiometer (SMMR) observations
23 p3773 N84-33919
The distribution of ice concentration, multiyear and first year fraction in the Arctic Ocean derived from the Nimbus 7 Scanning Multichannel Microwave Radiometer (SMMR) observations 23 p3773 N84-33920
JOHANSEN, E.
Low-smoke, halogenfree ship-offshore/onshore cables with improved flame retardance and fire resistance
11 p1723 N84-21240
JOHANSEN, J. B.
The effects of cylindrical surface modifications on turbulent boundary layers
[AD-A136296] 09 p1314 N84-18585
JOHANSON, D. C.
Visual field perimeter and psychomotor tracking performance measuring apparatus
[AD-D011056] 22 p3596 N84-32775
JOHANSON, E. W.
Method and apparatus for measuring response time
[DE84-011042] 21 p3406 N84-31603
JOHANSON, W. R.
Low-hysteresis materials for magnetic refrigeration: Gd sub 1-x/Er sub x/Al2
[DE84-001685] 04 p0505 N84-13307
JOHANSSON, B. C. A.
A fundamental study of relation between the velocity fields far upstream of, at and far downstream of a a rotor disk in a shear flow
[FFA-136] 17 p2667 N84-27006
JOHANSSON, C.
A system for measuring fluxes of trace gases to and from soil and vegetation with a chamber technique
[CM-61] 07 p1028 N84-16662
JOHANSSON, S.
New Fe 2 lines in IUE spectra of stars
24 p3977 N84-35187
JOHN, C.
Protein single crystal growth under microgravity
23 p3805 N84-34124
JOHN, F.
Non-existence of global solutions of partial of f(u sub t) with respect to t in two and three space dimensions
[AD-A144692] 24 p3952 N84-35030

JOHN, R. S.
Equal weights, flat maxima, and trivial decisions
[AD-A138506] 12 p1895 N84-22342
JOHNS, A. L.
Flow visualization and interpretation of visualization data for deflected thrust V/STOL nozzles
[NASA-TM-83554] 05 p0631 N84-14147
JOHNS, C. E.
X-band uplink ground systems development
10 p1474 N84-19626
JOHNS, J. H.
Cohesion in the US military
[AD-A140828] 17 p2747 N84-27439
JOHNS, W. L.
Further abbreviation of the machining schedule for producing surface-damage-free beryllium
[DOE/TIC-4500-REV-69] 06 p0814 N84-15297
JOHNSEN, R.
Laboratory studies of atomic collision processes
[AD-A137992] 12 p1901 N84-22382
JOHNSON-WALLS, P. E.
Critical current density of bronze-processed multifilimentary Nb-3Sn wires with magnesium addition to the matrix
[DE84-014579] 23 p3719 N84-33576
JOHNSON, A. B.
Information Center Complex publications and presentations, 1971-1982
[DE84-010603] 20 p3315 N84-31055
JOHNSON, A. H.
Development of scanning dipole array
[AD-P003405] 19 p3014 N84-29109
JOHNSON, A. L.
Spacecraft-borne long life cryogenic refrigeration: Status and trends 06 p0818 N84-15331
JOHNSON, A. R.
Finite element analysis of fabrics with nonlinear stress-strain laws
[AD-P002977] 14 p2202 N84-24213
JOHNSON, B. A.
The OTEC (Ocean Thermal Energy Conversion) mooring technology
[PB83-221168] 01 p0060 N84-10396
JOHNSON, B. L., SR.
A gas-flow tracing technique applicable to rotating systems boundary layer on a rotating disk
[DE83-012761] 03 p0372 N84-12425
JOHNSON, B. M.
Simultaneous electron capture and excitation in ion-atom collisions
[DE83-005799] 06 p0910 N84-15907
Improved four-stage accel-decel production of low-energy stripped heavy ions
[DE83-005791] 06 p0910 N84-15908
Accelerator-based atomic physics experiments with photon and ion beams
[DE84-010789] 20 p3296 N84-30928
JOHNSON, B. R.
An investigation of methods for computing long path atmospheric transmittance
[AD-A136434] 09 p1345 N84-18785
JOHNSON, B. V.
Mass and momentum turbulent transport experiments with confined swirling coaxial jets
[NASA-CR-168252] 08 p1156 N84-17530
Mass and momentum transport experiments with swirling flow 11 p1610 N84-20541
JOHNSON, C. A.
Evaluation results for the interactive video competency recognition system
[AD-A133052] 06 p0892 N84-15796
JOHNSON, C. B.
High Reynolds number tests of the cast 10-2/DOA2 transonic airfoil at ambient and cryogenic temperature conditions 14 p2096 N84-23575
JOHNSON, C. S.
Optical surveillance for international safeguards: Present and future
[DE83-014278] 02 p0223 N84-11465
JOHNSON, D.
Study on transport airplane unplanned water contact
[AD-A142092] 19 p2961 N84-28764
JOHNSON, D. E.
Pulsed inductive energy store
[AD-A144282] 24 p3916 N84-34796
JOHNSON, D. H.
Issues in interaction language specification and representation
[AD-A136943] 10 p1555 N84-20188
Dialogue management: New concepts in human-computer interface development
[AD-A136945] 10 p1555 N84-20190
Artificial upwelling driven by salinity differences in the ocean
[DE84-000086] 15 p2374 N84-25244
Proceedings of the Solar Thermal-Photochemical Conversion Workshop
[DE84-000089] 22 p3619 N84-32929
JOHNSON, D. J.
Ion stopping in heated targets
[DE83-017800] 03 p0447 N84-12941
Applied-B ion diode experiments on PBFA 1
[DE83-017792] 03 p0447 N84-12942
Diagnosing the ion beam on the applied-B diode
[DE83-017822] 03 p0447 N84-12943
Direct measurement of the energy spectrum of an intense proton beam
[DE84-000457] 04 p0597 N84-13939
Proto-I axial-focusing experiments
[DE84-000458] 04 p0599 N84-13951
Analysis of mechanisms for anode plasma formation in ion diodes
[DE83-017793] 04 p0608 N84-14010
Theoretical treatment of the current neutralization of high intensity light ion beams in argon
[DE84-000118] 05 p0745 N84-14893
JOHNSON, D. L.
Transmission of fast neutrons from the Li(d,xn) reaction through thick iron
[DE83-015975] 03 p0439 N84-12884
Atmospheric environment for space shuttle (STS-8) launch
[NASA-TM-82560] 05 p0708 N84-14636
Microwave sintering of ceramics
[AD-A138402] 12 p1801 N84-21744
Atmospheric environment for Space Shuttle (STS-9) launch
[NASA-TM-82572] 14 p2179 N84-24047
Reciprocating magnetic refrigerator employing tandem porous matrices within a reciprocating displacer
[NASA-CASE-NPO-16257-1] 15 p2305 N84-24830
Atmospheric environment for Space Shuttle (STS-11) launch
[NASA-TM-82580] 15 p2366 N84-25194
Procedures for acceptance testing of solar energy systems
[AD-A141839] 19 p3051 N84-29359
Atmospheric environment for space shuttle (STS-13) launch
[NASA-TM-82588] 19 p3057 N84-29396
Magnetic refrigeration development
22 p3573 N84-32626
JOHNSON, D. R.
Mesoscale ageostrophic circulations associated with baroclinic jet streaks 24 p3930 N84-34875
JOHNSON, D. W.
Space shuttle orbiter leading-edge flight performance compared to design goals 01 p0025 N84-10161
Bond characteristics of epoxy coated reinforced bars
[PB83-205518] 01 p0058 N84-10379
Effects of acid precipitation and natural processes on cation leaching from 4 diverse forest ecosystems
[DE83-015759] 01 p0103 N84-10671
High-speed, low-altitude payload delivery using a single large ribbon parachute
[DE84-002731] 06 p0783 N84-15128
JOHNSON, E.
An evaluation of the Malvern optical particle monitor
[DE83-017039] 23 p3751 N84-33775
JOHNSON, E. C.
The process of technological innovation: Reviewing the literature 16 p2566 N84-26466
JOHNSON, E. E.
History of on-orbit satellite fragmentations
[NASA-CR-171814] 24 p3859 N84-34461
JOHNSON, E. J.
Representations of perceptions of risks
[AD-A131443] 01 p0117 N84-10759
Effort and accuracy in choice
[AD-A136881] 10 p1550 N84-20161
JOHNSON, E. L.
Development of a solar energy system
[DE83-014236] 08 p1180 N84-17690
Development of a solar energy system: Executive summary
[DE83-014392] 08 p1181 N84-17693
JOHNSON, E. R.
Remote sensing and hydrologic models
[E84-10082] 07 p1022 N84-16628
Review of hydrologic models for evaluating use of remote sensing capabilities 07 p1022 N84-16629
Strategies for using remotely sensed data in hydrologic models 07 p1022 N84-16630
Large deformation behavior of long shallow cylindrical composite panels
[NASA-CR-173286] 13 p2000 N84-22975
A method to combine remotely sensed and in situ measurements: Program documentation
[E84-10172] 21 p3426 N84-31735
JOHNSON, G. L.
Thermal analysis of a helium-cooled tube-bank blanket module for a tandem-mirror fusion reactor
[DE83-015840] 02 p0297 N84-11945
JOHNSON, G. M.
Embedding methods for the steady Euler equations
[NASA-TM-83481] 02 p0279 N84-11831
JOHNSON, G. R.
Aircraft seat fire blocking layers. Effectiveness and benefits under various scenarios
[AD-A140796] 17 p2603 N84-26681
JOHNSON, H.
Structure-activity correlations for organophosphorus ester anticholinesterases. Part 2: CNDO/2 calculations applied to ester hydrolysis rates
[NASA-TM-85868] 07 p0966 N84-16257
JOHNSON, H. H.
Environment and fracture
[DE84-011454] 21 p3367 N84-31360
JOHNSON, H. R.
A distributed data base management facility for the CAD/CAM environment 12 p1890 N84-22305
JOHNSON, H. W.
A guideline for the planning and system requirement determination of a computer based educational system
[AD-A133529] 06 p0898 N84-15829
JOHNSON, J. A.
Real-time ultrasonic sensing of arc welding processes
[DE84-005031] 21 p3415 N84-31657
Enhanced Fourier algorithms for ultrasonic crack characterization
[DE84-012544] 21 p3423 N84-31714
JOHNSON, J. B.
Stress measurements in ice
[AD-A133906] 06 p0861 N84-15609
Flight evaluation of the DEEC secondary control air-start capability
[NASA-TM-84910] 09 p1257 N84-18203
JOHNSON, J. C.
Impact and vibration testing of a modified UH-1 crew seat
[AD-A130279] 01 p0117 N84-10760
JOHNSON, J. D.
Dense molecular thermodynamics
[DE83-015216] 03 p0457 N84-13006
Equation of state for the detonation products of several simple explosives
[DE83-017266] 06 p0813 N84-15290
JOHNSON, J. F. E.
Comparison of thermal plasma observations on SCATHA and GEOS 08 p1117 N84-17262
Ion measurements on GEOS using a negatively biased sensor on a positively charged spacecraft
08 p1117 N84-17263
JOHNSON, J. H.
Products from the detonation of trinitrotoluene in air and nitrogen
[AD-A137809] 11 p1639 N84-20713
Analysis of particulates in the exhaust plume of a TF30 engine at military power
[AD-A142510] 20 p3131 N84-29682
JOHNSON, J. L.
Sonic levitation apparatus
[NASA-CASE-MFS-25828-1] 18 p2928 N84-28568
JOHNSON, J. O.
Calculations of radiation fields and monkey mid-head and mid-thorax responses in AFRRI-TRIGA reactor facility experiments
[DE83-015483] 02 p0264 N84-11741
JOHNSON, J. S., JR.
Chemical reactions possibly useful for low temperature thermal energy storage
[DE84-004126] 09 p1342 N84-18763
JOHNSON, J. W.
STEP electronic system design
08 p1109 N84-17214
Measurements of ocean wave spectra and modulation transfer function with the airborne two frequency scatterometer 17 p2715 N84-27282
JOHNSON, K.
Executive summary, aerothermal modeling program, phase 1
[NASA-CR-174602] 03 p0348 N84-12263
Aerothermal modeling program, phase 1
[NASA-CR-168243-VOL-1] 03 p0348 N84-12264
Aerothermal modeling program, phase 1
[NASA-CR-168243-VOL-2] 03 p0348 N84-12265
Environment for scientific laboratories
[DE83-013848] 12 p1919 N84-22504
Dilution jet mixing program
[NASA-CR-174624] 17 p2609 N84-26702
JOHNSON, K. B.
Two-step industrial preparedness planning: Balancing funds and production capability
[AD-P002802] 13 p2058 N84-23348

JOHNSON, K. G.
Decoupled control analysis of a large flexible space antenna with linear quadratic regulator comparisons
[NASA-TP-2293] 14 p2115 N84-23675

JOHNSON, K. H.
A molecular orbital model of intergranular embrittlement
[AD-A133056] 05 p0655 N84-14307
Iterative coupling of partitioned clusters in the scattered-wave molecular-orbital method
[AD-A141522] 19 p3101 N84-29697

JOHNSON, K. M.
Studies of metastable microcrystalline and glassy alloys
[AD-A139941] 15 p2297 N84-24787

JOHNSON, K. R.
Geology of the Gualan and Southern Sierra de las Minas Quadrangles, Guatemala 21 p3441 N84-31834

JOHNSON, L. A.
Utilization of amorphous metals in electric motors. Power systems technology program
[DE84-009463] 19 p3018 N84-29136

JOHNSON, L. C.
Benzodiazepine effects on arousal threshold during sleep
[AD-A133151] 07 p1047 N84-16792

JOHNSON, L. D.
The geographic and statistical analysis of air quality data in the United States
[DE83-016471] 02 p0244 N84-11598
Mathematics of multidart probability predictions
[AD-A140745] 17 p2760 N84-27526

JOHNSON, L. L.
Scientific and technical information transfer: Issues and options
[RAND/N-2131-NSF] 22 p3673 N84-33286

JOHNSON, M.
Electrical and magnetic properties of the energy-saver correction elements
[DE83-017327] 04 p0603 N84-13983
High pressure cosmochemistry applied to major planetary interiors: Experimental studies
[NASA-CR-173278] 08 p1245 N84-18138
Development of probabilistic rigid pavement design methodologies for military airfields
[AD-A138212] 12 p1804 N84-21760

JOHNSON, M. B.
Recent developments in the understanding of pion-nucleus scattering
[DE84-001017] 04 p0597 N84-13942

JOHNSON, M. C.
A performance-based technique for assessing equipment maintainability
[AD-A133518] 06 p0894 N84-15809
Environmental and water quality operational studies. Fluorometric techniques for tracing reservoir inflows
[AD-A143135] 21 p3436 N84-31801

JOHNSON, M. E.
The IF-77 electromagnetic wave propagation model
[AD-A134504] 07 p0993 N84-16441
Investigation of an empirical probability measure based test for multivariate normality
[DE84-012626] 22 p3649 N84-33135

JOHNSON, M. L.
Transmission of fast neutrons from the Li(d,xn) reaction through thick iron
[DE83-015975] 03 p0439 N84-12884

JOHNSON, N.
The historical development and basis of human factors guidelines for automated systems in aeronautical operations
[NASA-CR-166560] 10 p1552 N84-20174

JOHNSON, N. L.
Moment estimators of defect pattern frequencies, allowing for inspection error
[AD-A133487] 06 p0855 N84-15568
Inspection errors in link sampling
[AD-A135636] 09 p1382 N84-19029
Soviet military capabilities in space
[AD-P002156] 14 p2139 N84-23821
An estimation problem in faulty inspection sampling, revised
[AD-A141247] 18 p2851 N84-28103
History of on-orbit satellite fragmentations
[NASA-CR-171814] 24 p3859 N84-34461

JOHNSON, P.
Cosmic ray exposure of SNC meteorites and constraints on their derivation from Mars 11 p1754 N84-21449
High resolution bone mineral densitometry with a gamma camera
[NASA-TM-85386] 18 p2899 N84-28391

JOHNSON, P. C.
Regulation of hematopoiesis in the suspended rat as a model for space flight 09 p1355 N84-18856

JOHNSON, P. C., JR.
Space Station medical sciences concepts
[NASA-TM-58255] 11 p1693 N84-21040

JOHNSON, P. E.
Development of an impact resistant test method for polycarbonate
[AD-A139082] 13 p2002 N84-22988
Design considerations for high-power VHF radar transceivers: The Poker Flat MST radar phase control system 17 p2692 N84-27148
Design considerations for high-power VHF radar transceivers: Phase matching long coaxial cables using a cable radar 17 p2693 N84-27149

JOHNSON, P. M.
Multiphoton ionization spectroscopy and photochemistry of transient species
[DE84-010424] 20 p3295 N84-30922

JOHNSON, R.
Trigger systems which could operate at a luminosity of 10/sup 33 cm(-2) to sec/sup -1
06 p0911 N84-15918
Detectors at 20 TeV and detector considerations for a high luminosity hadron-hadron machine
06 p0911 N84-15920
Triggering at high luminosity: Fake triggers from pile-up 06 p0913 N84-15932

JOHNSON, R. A.
Advanced Gas Turbine (AGT): Power-train system development
[NASA-CR-168056] 01 p0089 N84-10581

JOHNSON, R. B.
Effects of long-term low-level radiofrequency radiation exposure on rats. Volume 1: Design, facilities, and procedures
[AD-A134079] 06 p0885 N84-15756
Effects of long-term low-level radiofrequency radiation exposure on rats. Volume 3: SAR (Specific Absorption Rate) in rats exposed in 2450-MHz circularly polarized waveguide
[AD-A135376] 09 p1361 N84-18890
Effects of long-term low-level radiofrequency radiation exposure on rats. Volume 4: Open-field behavior and corticosterone
[AD-A137743] 12 p1863 N84-22141
Effects of long-term low-level radiofrequency radiation exposure on rats. Volume 5: Evaluation of the immune system's response
[AD-A138535] 14 p2184 N84-24087
Effects of long-term low-level radiofrequency radiation exposure on rats. Volume 6: Hematological, serum chemistry, thyroxine, and protein electrophoresis evaluations
[AD-A141124] 19 p3063 N84-29434

JOHNSON, R. G.
A SLAM (Simulation Language for Alternative Modeling) airfield model for airlift operations
[AD-A141106] 19 p2960 N84-28762

JOHNSON, R. L.
Design of the Advanced Toroidal Facility (ATF-1)
[DE83-012641] 03 p0445 N84-12923
Subatmospheric Brayton-cycle engine program review
18 p2874 N84-28247
Aircraft fuel tank inerting system
[AD-A141863] 19 p2964 N84-28785
LANDSAT-5 orbit adjust maneuver report
[E84-10155] 19 p3039 N84-29276
Research pressure instrumentation for NASA Space Shuttle main engine, modification no. 6
[NASA-CR-171126] 22 p3597 N84-32780
Storm severity detecion (RF)
24 p3927 N84-34857

JOHNSON, R. M.
Correlation of laboratory-scale fire test methods for seat blocking layer materials with large-scale test results
[AD-A131666] 03 p0328 N84-12138
Air-breakdown limits for microwave-pulse propagation. Part 1. Experiments
[DE83-017832] 04 p0523 N84-13438

JOHNSON, R. R.
Holographic interferometry using 20-picosecond UV pulses to obtain time resolved hydro measurements of selenium and gold plasmas
[DE84-009485] 20 p3191 N84-30269
Experiments and theory on half-harmonic light and 2-plasmon decay
[DE84-008945] 20 p3193 N84-30276

JOHNSON, R. T.
Correlation of electrical conductivity and thermal decomposition of phenolic materials
[DE83-009186] 01 p0074 N84-10487

JOHNSON, R. T., JR.
A survey of the state-of-the-art in aging of electronics with application to nuclear-power-plant instrumentation
[DE83-012696] 01 p0073 N84-10478
Dielectric breakdown of MXB-71 phenolic and Sylgard 184/GMB silicone at high temperature
[DE83-016768] 02 p0201 N84-11312
High temperature electrical conductivity of rigid polyurethane foam
[DE84-008699] 19 p3018 N84-29137

JOHNSON, R. W.
A review of optical data analysis related to the modelling of visible and optical infrared atmospheric properties
[AD-A131486] 01 p0106 N84-10687
Algorithms for single-signal and multisignal minimum-cross-entropy spectrum analysis
[AD-A132400] 04 p0520 N84-13420
Multisignal Minimum-Cross-Entropy spectrum analysis weighted priors
[AD-A132358] 04 p0589 N84-13896
An experimental device for real time determination of slant path atmospheric contrast transmittance (prototype status)
[AD-A134000] 05 p0702 N84-14610
Atmospheric contrast transmittance monitor
[AD-D011167] 23 p3798 N84-34083

JOHNSON, S. A.
Technical and economic study of ethanol distillation from low temperature sources
[DE83-013073] 02 p0204 N84-11327
Ultrasound tomography by Galerkin or moment methods
[AD-A131408] 02 p0266 N84-11747
Rational function frequency extrapolation in ultrasonic tomography
[AD-A131447] 02 p0288 N84-11888
Aeroelastic analysis for propellers - mathematical formulations and program user's manual
[NASA-CR-3729] 03 p0388 N84-12530
An adaptive, noise tolerant, frequency extrapolation algorithm for diffraction corrected ultrasound tomography
[AD-A136455] 09 p1375 N84-18982
Distributed processing tools definition. Volume 2: Application of software engineering technology
[AD-A137687] 11 p1704 N84-21106
Distributed processing tools definition. Volume 3: An integrated software engineering environment for distributed processing software development
[AD-A137688] 11 p1704 N84-21107

JOHNSON, S. C.
Validation of a fault-tolerant clock synchronization system
[NASA-TP-2346] 23 p3816 N84-34198

JOHNSON, S. D.
Evaluation of controlling low altitude aerial photography using high altitude aerotriangulation
02 p0234 N84-11539

JOHNSON, S. M.
Silicon nitride joining
[AD-A136547] 09 p1287 N84-18404
Preliminary investigation of a two-zone swirl flow combustor
[NASA-TM-83637] 13 p1932 N84-22565
Experimental investigation of the low NO/sub x vortex airblast annular combustor
[NASA-TM-83615] 13 p1932 N84-22567
Effects of non-equilibrium solidification on the material properties of brick silicon for photovoltaics
18 p2940 N84-28648

JOHNSON, T.
A study of personal exposure to carbon monoxide in Denver, Colorado
[PB84-146125] 12 p1866 N84-22161

JOHNSON, T. C.
Revised procedure for pavement design under seasonal frost conditions
[AD-A134480] 07 p0986 N84-16384

JOHNSON, T. D., JR.
Vortex flap flow reattachment line and subsonic longitudinal aerodynamic data on 50 deg to 74 deg Delta wings on common fuselage
[NASA-TM-84618] 04 p0480 N84-13160

JOHNSON, T. L.
Dependence of thermoluminescence output on temperature during irradiation for several thermoluminescence phosphors
[AD-A134940] 08 p1125 N84-17313
Asynchronous discrete control of continuous processes
[AD-A135257] 08 p1215 N84-17930
Modifications to iterative recursion unfolding algorithms and computer codes to find more appropriate neutron spectra
[AD-A142475] 20 p3273 N84-30775

JOHNSON, T. R.
Structure of convective surface deposits and effect on MHD steam-plant design
[DE83-010757] 03 p0446 N84-12931

JOHNSON, T. S.
Prevention of acute mountain sickness by dexamethasone
[AD-A131533] 01 p0114 N84-10737
JOHNSON, T. V.
Galilean satellite multispectral data base production
13 p2087 N84-23521
JOHNSON, W.
An assessment of the capability to calculate tilting prop-rotor aircraft performance, loads and stability
[NASA-TP-2291] 10 p1427 N84-19333
Aerodynamic prediction I 19 p3098 N84-29680
Development and application of an analysis of axisymmetric body effects on helicopter rotor aerodynamics using modified slender body theory
[NASA-TM-85934] 21 p3324 N84-31090
JOHNSON, W. A.
Applications of Riemann-Hilbert problem techniques to electromagnetic coupling through apertures
[DE84-009532] 19 p3009 N84-29073
JOHNSON, W. B.
NBS (National Bureau of Standards) Workshop: Environmental Control for Archival Records Storage
[PB83-242230] 03 p0460 N84-13026
JOHNSON, W. G., JR.
Aerodynamic force measurements with a strain-gage balance in a cryogenic wind tunnel
[NASA-TP-2251] 04 p0480 N84-13162
High Reynolds number tests of a Boeing BAC I airfoil in the Langley 0.3-meter transonic cryogenic tunnel
[NASA-TM-81922] 18 p2786 N84-27684
Data from tests of a R4 airfoil in the Langley 0.3-meter transonic cryogenic tunnel
[NASA-TM-85739] 23 p3690 N84-33385
JOHNSON, W. L.
Diffusion properties and phase transitions of the metalic glass a-Zr2-PdH-x
[DE83-016626] 05 p0660 N84-14341
EXAFS studies of the metallic glass La80Ga20
[DE84-002022] 06 p0811 N84-15278
Classifying bugs is a tricky business
[AD-A133264] 06 p0895 N84-15813
PROUST: Knowledge-based program understanding
[AD-A133447] 06 p0897 N84-15825
Amorphous zirconium-nickel films formed by solid state reactions
[DE84-003570] 07 p0976 N84-16326
JOHNSON, W. R.
Design and verification of electromagnetic compatibility in airborne weapons systems 06 p0773 N84-15066
Corrosion behavior of experimental Ni-Cr-Mo-W-Al-Ti-Zr-C alloys in simulated advanced-HTGR helium
[DE84-010487] 18 p2814 N84-27867
JOHNSON, W. S.
Repeatability of mixed-mode adhesive debonding
[NASA-TM-85753] 10 p1464 N84-19565
JOHNSON, W. T. K.
The Venus Radar Mapper: Radar system design for highly elliptical orbits 23 p3782 N84-33986
JOHNSON, W. W.
Observation of bistability in a Josephson device
14 p2235 N84-24409
Theory of multistability in Josephson junction devices
14 p2235 N84-24410
JOHNSSON, L.
A formal derivation of array implementations of FFT algorithms 09 p1400 N84-19144
The impact of VLSI on signal processing
09 p1402 N84-19159
JOHNSTON, A. R.
Fiber optic data transmission experiment (S0109)
15 p2279 N84-24688
JOHNSTON, D. E.
Space Shuttle flying qualities and flight control system assessment study, phase 2
[NASA-CR-170406] 05 p0633 N84-14158
Space shuttle flying qualities criteria assessment, phase 3
[NASA-CR-170407] 11 p1614 N84-20565
JOHNSTON, J. C.
Seismic hazard study for selected sites in New Mexico and Nevada
[AD-A143392] 22 p3623 N84-32960
JOHNSTON, J. P.
Experimental study of flow reattachment in a single-sided sudden expansion
[NASA-CR-3765] 09 p1312 N84-18571
JOHNSTON, M. H.
A study of the solidification parameters influencing structures and properties in MAR-M246(Hf)
[NASA-TM-82569] 11 p1633 N84-20675
High-pressure hydrogen testing of single crystal superalloys for advanced rocket engine turbopump turbine blades
[NASA-TM-86464] 23 p3717 N84-33563
JOHNSTON, N. J.
Synthesis and toughness properties of resins and composites 20 p3146 N84-29973
JOHNSTON, P.
Signal processor architecture for backscatter radars
17 p2695 N84-27164
JOHNSTON, R. S.
Crew and life support: EVA 09 p1268 N84-18279
JOHNSTON, S.
Orbital stability in combined uniform axial and three-dimensional wiggler magnetic fields for free-electron lasers
[NASA-TM-83753] 20 p3192 N84-30273
JOHNSTON, W. A.
A viscous-inviscid interactive procedure for rotational flow in cascades of two dimensional airfoils of arbitrary shape
[NASA-CR-174609] 04 p0478 N84-13149
JOHNSTON, W. H.
Water resources data for New York, water year 1982. Volume 3: Western New York
[PB84-119544] 10 p1527 N84-20003
JOHNSTONE, A. D.
Observations of differential charging with METEOSAT
[AD-P002112] 16 p2523 N84-26198
JOHNSTONE, R.
A UV glimpse of T Tauri stars
24 p3975 N84-35174
JOISEL, A.
Adaptive protection of detecion systems operating by spread spectrum 06 p0868 N84-15652
Contending with jamming in decametric waves in an adaptive system of all-directional antennas
06 p0868 N84-15653
JOKL, M. L.
A microscopic analysis of brittle fracture in deformable solids 05 p0691 N84-14537
JOLLY, M. B.
C3I system modification and EMC (electromagnetic compatibility) methodology, volume 1
[AD-A141420] 19 p3004 N84-29041
JOLY, P.
Numerical diffraction by a uniform grid
[DE84-012861] 22 p3648 N84-33121
JOLY, R.
Bus interconnection in multiprocessor environment: The communication principle and the arbitration techniques
[ENST-E-83010] 10 p1482 N84-19689
JONAH, C. D.
Use of pulse radiolysis to measure high temperature kinetics
[DE84-011702] 21 p3361 N84-31324
JONAS, J.
Transport and relaxation processes in supercritical fluids
[DE83-015966] 03 p0373 N84-12432
Transport and relaxation processes in supercritical fluids
[DE84-002182] 07 p1081 N84-17030
Concurrency of design criteria: A key to trainer readiness
[AD-P003454] 21 p3509 N84-32231
JONASSON, J. E.
Blast loadings of emergency exits for air-raid shelters type E
[FOA-C-20530-D4(D6)] 15 p2350 N84-25103
JONCICH, D. M.
Procedures for acceptance testing of solar energy systems
[AD-A141839] 19 p3051 N84-29359
JONES, A. A.
Memory-mapped CAMAC branch driver
[DE83-016084] 01 p0119 N84-10775
JONES, A. K.
Workshop on Multiprocessors for High Performance Parallel Computation
[PB84-152677] 14 p2204 N84-24229
JONES, B.
Infrared astronomy research and high altitude observations
[NASA-CR-173526] 13 p2070 N84-23413
Publications resulting from Infrared Astronomy Research and High Altitude Observations
[NASA-CR-173525] 13 p2070 N84-23414
Abundances in galactic H2 regions, 3: G25.4-0.2, G45.5+0.06, M8, S159 and DR22
[NASA-TM-85962] 17 p2774 N84-27616
JONES, B. A.
Tape casting of Honeywell PZT type 3 powder
[AD-A144215] 24 p3888 N84-34623
JONES, B. F.
Corrosion fatigue crack growth rates of weldments in Q1N steel
[AD-A141261] 18 p2814 N84-27864
JONES, B. H.
The energy cost and heart rate response of trained and untrained subjects walking and running in shoes and boots
[AD-A131420] 01 p0113 N84-10735
Stress fractures: The remodelling response to excessive repetitive loading
[AD-A130881] 06 p0887 N84-15765
Overuse injuries of the lower extremities associated with marching, jogging and running. A review
[AD-A134672] 08 p1200 N84-17824
JONES, C. L.
Development of visible/infrared/microwave agriculture classification and biomass estimation algorithms, volume 2
[E84-10059] 06 p0864 N84-15829
JONES, C. R.
Optical properties of explosive-driven waves in noble gases
[DE83-015236] 01 p0082 N84-10536
Optical emission of exploding-film and wire-initiated discharges
[DE83-014154] 02 p0223 N84-11466
Optically pumped ultraviolet and infrared lasers driven by exploding metal films and wires
[DE83-014169] 02 p0226 N84-11484
A novel 15.9-micron source
[DE83-015234] 02 p0227 N84-11490
High precision material study at near millimeter wavelengths
[AD-A133575] 06 p0918 N84-15966
JONES, D.
Observation of waves induced by an artificial ion beam in the ionosphere 05 p0635 N84-14176
Time-to-corrosion of reinforcing steel in concrete slabs. Volume 5: Calcium nitrite admixture or epoxy-coated reinforcing bars as corrosion protection systems
[PB84-195239] 22 p3565 N84-32578
Effective organizational solutions for implementation of DBMS software packages 22 p3671 N84-33268
JONES, D. E.
Pioneer 10 and 11 (Jupiter and Saturn) magnetometer experiment
[NASA-CR-174006] 24 p3989 N84-35241
JONES, D. H. P.
Narrow-band photometry of faint red stars, 2
[BULL-191] 08 p1243 N84-18126
JONES, D. I. G.
On the modal identification of multiple degree of freedom systems from experimental data
10 p1511 N84-19887
Measurement and analysis of platform damping in advanced turbine blade response
10 p1514 N84-19911
A vibration damping treatment for high temperature gas turbine applications 10 p1514 N84-19912
JONES, D. J.
Two-dimensional wind tunnel wall interference
[AD-A138964] 11 p1603 N84-20499
JONES, D. M. A.
Statistics of instantaneous rainfall rates
[AD-A130089] 01 p0107 N84-10695
JONES, E. B.
Snowpack ground-truth manual
[NASA-CR-170584] 02 p0239 N84-11569
JONES, F. C.
Rapporteur paper for sessions MG1, MG3 and MG4: Modulation theory, interplanetary propagation and interplanetary acceleration
[NASA-TM-86047] 08 p1247 N84-18150
JONES, G.
Secondary power supplies for a small single engine combat aircraft 03 p0334 N84-12175
En route/terminal ATC (Air Traffic Control) operations concept
[AD-A138991] 13 p1929 N84-22550
JONES, G. F.
Development of a point-electrode conductivity salinometer with high-spatial-resolution for use in very-saline solutions
[DE83-011170] 01 p0085 N84-10550
Temperature and heat-flux distributions in a strip-heated composite slab
[DE84-006016] 23 p3712 N84-33529
JONES, G. L.
High angle of attack test and evaluation techniques for the 1980s 24 p3847 N84-34399
JONES, G. S.
Experimental study of the separating confluent boundary-layer. Volume 2: Experimental data
[NASA-CR-166018] 11 p1600 N84-20481
JONES, G., II
Products of photodegradation for coumarin laser dyes
[AD-A136308] 09 p1320 N84-18624
Photochemistry and photophysics of laser dyes
[AD-A136330] 09 p1320 N84-18626

Photodegradation of coumarin laser dyes. An unexpected singlet self-quenching mechanism
[AD-A136339] 09 p1321 N84-18628
Solvent effects on emission yield and lifetime for coumarin laser dyes. Requirements for a rotatory decay mechanism
[AD-A136358] 09 p1321 N84-18629
Photophysical and photochemical properties of coumarin laser dyes in amphiphilic media
[AD-A136361] 09 p1321 N84-18630
Electron donor-acceptor quenching and photoinduced electron transfer for coumarin dyes
[AD-A136345] 09 p1394 N84-19105

JONES, H. D.
Helicopter In-flight Monitoring System second generation (HIMS 2)
[AD-A132498] 04 p0483 N84-13179

JONES, H. M.
The design and development of a release mechanism for space shuttle life-science experiments
15 p2347 N84-25079

JONES, I. W.
The design and development of a solar tracking unit
15 p2348 N84-25090

JONES, J. A.
LaNi5 hydride cryogenic refrigerator test results
06 p0821 N84-15350

JONES, J. E.
Charts of the O1, K1, N2, M2, and S2 tides in the Celtic Sea including M2 and S2 tidal currents
[IOS-169] 18 p2893 N84-28360

JONES, J. H.
A comparison of measured and theoretical predictions for STS ascent and entry sonic booms
01 p0027 N84-10168
Walk-through survey report: Control technology for integrated circuit fabrication, Xerox Corporation, El Segundo, California
[PB83-239053] 03 p0359 N84-12333
Multichannel detection systems available for flow diagnostics at AEDC
[AD-A132302] 16 p2452 N84-25722

JONES, J. J.
Shuttle Performance: Lessons Learned, part 1
[NASA-CP-2283-PT-1] 01 p0018 N84-10115
Shuttle Performance: Lessons Learned, part 2
[NASA-CP-2283-PT-2] 01 p0023 N84-10144

JONES, J. L., JR.
Long Duration Exposure Facility (LDEF). Mission 1 Experiments
[NASA-SP-473] 15 p2270 N84-24632

JONES, J. R.
A dual-ported, dual-polarized spherical near-field probe
[AD-P003514] 21 p3385 N84-31482

JONES, J. S.
Repair techniques for celion/LARC-160 graphite/polyimide composite structures
[NASA-CR-3794] 17 p2617 N84-26752

JONES, K. D.
Publications and reports of the Institute of Oceanographic Sciences 1979-1982
[IOS-170] 18 p2892 N84-28354

JONES, K. H.
The Solid Model Geometry Generator (SMGG)
12 p1872 N84-22199
Computer generated animation and movie production at LARC: A case study
[NASA-CR-172375] 18 p2917 N84-28494

JONES, K. N.
Creep-fatigue interactions in advanced eutectic superalloys
[AD-A142872] 21 p3422 N84-31705

JONES, K. W.
Simultaneous electron capture and excitation in ion-atom collisions
[DE83-005799] 06 p0910 N84-15807
Improved four-stage accel-decel production of low-energy stripped heavy ions
[DE83-005791] 06 p0910 N84-15808
Accelerator-based atomic physics experiments with photon and ion beams
[DE84-010789] 20 p3296 N84-30928

JONES, L. A.
Diagnostics of a high current capillary discharge
[DE84-011369] 20 p3179 N84-30194
Nonthermal effects on the diagnostics of a collapsing gas shell Z-pinch
[DE84-009996] 21 p3502 N84-32199

JONES, L. L.
Description of a method and artifact for estimating volumetric uncertainty of coordinate measuring machines
[DE84-002017] 04 p0539 N84-13545
Measurement of robot accuracy using the Latin Square Three-Dimensional Ball Plate
[DE84-004920] 08 p1206 N84-17862
Space aging of solid rocket materials (P0005)
15 p2275 N84-24659

JONES, L. M.
Backward moving Altarelli-Parisi equations for transverse momentum calculations in jets
[ILL-(TH)-84-10] 11 p1712 N84-21164

JONES, L. W.
Scintillation chamber operation of calorimeters for colliding beam detectors 06 p0912 N84-15927

JONES, M.
MCG-2-58-22 = Mkn 926. A high luminosity Seyfert galaxy with two distinct broad line components
24 p3972 N84-35150

JONES, M. E.
Space-time evolution of the nonlinear 2-stream instability
[DE84-001336] 04 p0599 N84-13950
Filamentation instability of ion acoustic waves driven by a scattered relativistic beam
[DE84-001323] 04 p0599 N84-13956
Simulations of the effects of mobile ions on the relativistic beam-plasma instability for intense beams
[DE84-000369] 04 p0607 N84-14003
Filamentation instability associated with a relativistic beam and a finite-temperature, collisional plasma
[DE84-002303] 05 p0750 N84-14928
A commonality approach to DoD command and control centers
[AD-P002153] 14 p2138 N84-23818

JONES, M. L. C.
The basic ply properties of a Kevlar 49/epoxy resin composite system
[AD-A136614] 09 p1286 N84-18397

JONES, O. D.
Analysis of LANDSAT-4 TM data for lithologic and image mapping purpose 20 p3209 N84-30390

JONES, P. L.
The development and application of an advanced computer-based shared-graphic workstation for video teleconferencing
[AD-A132583] 04 p0579 N84-13817

JONES, R.
Some thoughts on 3-D isoparametric elements
[ARL-STRUC-NOTE-489] 07 p1059 N84-16860
Evaluation of a vibration technique for detection of barely-visible impact-damage in composites
[AD-A142807] 21 p3357 N84-31293
Analysis of the double overlap fatigue specimen
[ARL-STRUC-REPT-402] 23 p3760 N84-33833
The use of adhesive-bonded rivets to lessen the reductions in fatigue life caused by rivet holes
[ARL-STRUC-REPT-399] 24 p3887 N84-34617

JONES, R. A.
Adaptive hybrid picture coding
[AD-A138876] 13 p2033 N84-23184

JONES, R. B.
Characterization of block copolymers based on poly(3,3 -bis(ethoxymethyl)oxetane) and other novel polyethers
[AD-A142606] 20 p3162 N84-30081

JONES, R. D.
Laser-plasma interaction at 10.6 microns
[DE84-001038] 04 p0541 N84-13560
System 2000 to dBASE 2 and back again
[DE84-008031] 18 p2945 N84-28677

JONES, R. E.
Combustion gas properties of various fuels of interest to gas turbine engineers
[NASA-TM-83682] 15 p2261 N84-24584

JONES, R. H.
Hydrogen embrittlement of a 12 Cr-1 Mo steel
[DE83-016781] 02 p0195 N84-11270
Grain boundary segregation and environmental degradation of a ferritic stainless steel
[DE83-016927] 04 p0502 N84-13289
Modeling crack-growth processes in fusion-reactor materials
[DE84-000477] 04 p0502 N84-13291
Radiation-induced phosphorus segregation in austenitic and ferritic alloys
[DE84-000903] 04 p0504 N84-13302
Radiation hardening of oxygen-doped niobium by 14-MeV neutrons
[DE84-000103] 04 p0610 N84-14026
Effect of liquid tin-zinc on the drilling parameters of several alloys
[PB84-134782] 10 p1464 N84-19562
Wire tensile testing for radiation hardening experiments
[DE84-005884] 11 p1634 N84-20684
Strip and load data 22 p3672 N84-33273
NATURAL graphics 22 p3672 N84-33274

JONES, R. J.
Improved high temperature resistant matrix resins
[NASA-CR-168210] 19 p2998 N84-28995

JONES, R. K.
A model for evaluation of satellite population management alternatives
[AD-A136886] 10 p1436 N84-19386

JONES, R. L.
IMAGES: A digital computer program for interactive modal analysis and gain estimation for eigensystem synthesis
[NASA-TM-85690] 08 p1105 N84-17186

JONES, R. M.
Measured ionospheric Doppler spreading of HF ground backscatter
[PB83-220764] 01 p0068 N84-10446
Acoustic-gravity wave dispersion relations in a baroclinic atmosphere
[PB83-248690] 04 p0585 N84-13726
A survey of underwater-acoustic ray tracing techniques
[PB83-250522] 04 p0596 N84-13931
Viscoelastic analysis of adhesive stresses in bonded joints
[NASA-CR-173243] 09 p1288 N84-18411
Frequency correlation of HF skywave ground backscatter Doppler spectra
[PB84-204353] 22 p3578 N84-32668
Statistics at HF skywave ground backscatter Doppler spectra
[PB84-204973] 22 p3578 N84-32669

JONES, R. T.
Improving the efficiency of smaller transport aircraft
[NASA-TM-85992] 19 p2963 N84-28780

JONES, R. W.
Transverse mode formation in positive branch unstable resonators
[AD-A136515] 09 p1322 N84-18635
Cooling-load implications for residential passive solar heating systems 16 p2513 N84-26126
Convective heat transfer inside passive solar buildings
16 p2517 N84-26154

JONES, S. M.
Sampling report for the study of personal CO (carbon monoxide) exposure
[PB84-181957] 20 p3239 N84-30560

JONES, T. D.
Wave propagation in porous rock and models for crustal structure 06 p0876 N84-15698

JONES, T. L.
Transport assessment: Arid task. Model verification studies
[DE84-000121] 04 p0555 N84-13653

JONES, W.
Time-to-corrosion of reinforcing steel in concrete slabs. Volume 5: Calcium nitrite admixture or epoxy-coated reinforcing bars as corrosion protection systems
[PB84-195239] 22 p3565 N84-32578

JONES, W. A.
Three wavelength optical alignment of the Nova laser
[DE84-009702] 18 p2847 N84-28079

JONES, W. B.
Evaluation of the kinematic variable (back stress) response of metals
[DE83-008381] 03 p0353 N84-12293
Microstructural evaluation of a ferritic stainless steel by small angle neutron scattering
[DE84-009487] 19 p2995 N84-28980
Creep-fatigue and temperature synergisms in alloy 800
[DE84-010131] 20 p3157 N84-30046

JONES, W. F.
Fracture behavior of unidirectional boron/aluminum composite laminates
[NASA-CR-3753] 06 p0797 N84-15196

JONES, W. H.
Component temperature versus laser-welding parameters
[DE84-000362] 04 p0541 N84-13559

JONES, W. L.
Flight measurement and analysis of AAFE RADSCAT wind speed signature of the ocean
[NASA-TM-85646] 08 p1194 N84-17784
Measurement of ocean surface winds by SEASAT synthetic aperture radar
[AD-A138392] 12 p1836 N84-21971

JONES, W. R., JR.
Topological reaction rate measurements related to scoffing
[NASA-TM-83486] 05 p0652 N84-14288
Thermal and oxidative stabilities of liquid lubricants
14 p2154 N84-23907

JONGEBREUR, A.
Results of a study of residual stresses and fatigue crack growth in lugs with expanded holes
[NLR-MP-83024-U] 15 p2349 N84-25100

JONKERS, H. B. M.
Abstraction, specification and implementation techniques with an application to garbage collection
[MATH-CENTRE-TRACTS-166] 21 p3467 N84-31980
JOO, T. H.
SAR speckle noise reduction using Wiener filter 03 p0393 N84-12568
JOOSTEN, L. J. M.
A torque motor for a low friction single axis turntable
[NLR-MP-82036-U] 12 p1778 N84-21603
JORAND, J.
Balloon test project: Cosmic Ray Antimatter Calorimeter (CRAC)
[NASA-TM-77461] 23 p3750 N84-33772
JORDAN, E. H.
Elevated temperature biaxial fatigue
[NASA-CR-173473] 12 p1826 N84-21905
JORDAN, F. W.
Computerized static firing analysis techniques of solid propellant rocket motors 13 p1944 N84-22641
JORDAN, G. W.
Electrical conductivities of polycrystalline and single-crystal Er2O3-stabilized hafnia
[DE83-017681] 06 p0811 N84-15279
JORDAN, H. L.
Aerospace research and technology in Germany 12 p1763 N84-21500
JORDAN, J.
Radar cross section measurements of wingtip vortices 23 p3775 N84-33934
JORDAN, K. C.
Periods found in heat measurements obtained by calorimetry
[DE84-007446] 14 p2220 N84-24321
JORDAN, T. M.
Radiation protection for manned space activities
[NASA-CR-173202] 07 p1047 N84-16791
JORDE, J.
Design, manufacture and tests of a locking and unlocking mechanism, using memory elements (vem); layout, manufacture and testing of a tracking mechanism, using memory elements for locking/unlocking and driving and being suitable for qualification (NFMM)
[BMFT-FB-W-84-012] 19 p3033 N84-29236
JORDE, R.
The effect of physical stress on gastric secretion and pancreatic polypeptide levels in man 10 p1546 N84-20138
JORDEN, W.
Recycling conform design 23 p3705 N84-33488
JORDON, B. A.
Data base management system of the National Low-Level Radioactive Waste Management Program
[DE84-012789] 21 p3519 N84-32291
JORDON, D. L.
A compact frequency-stable pulsed CO-2 laser
[AD-A143216] 22 p3600 N84-32806
JORGENSEN, C. C.
A computer simulation to predict target identification latencies
[AD-P003272] 18 p2907 N84-28437
JORGENSEN, G.
Matrix approach to testing mirrors, part 2
[DE83-011996] 04 p0558 N84-13676
JORGENSEN, J. L.
Radiation testing of the CMOS 8085 microprocessor family
[DE83-014604] 02 p0271 N84-11771
JORGENSEN, W. F.
Cost-effective and efficient maintenance training devices: A user accepted design process
[AD-P003456] 21 p3509 N84-32233
JORGENSON, J. S.
NASTRAN analysis of nuclear effects on helicopter transparencies
[AD-P003234] 17 p2597 N84-26647
JORGENSON, W. E.
Hot gas APU starter for advanced aircraft applications 03 p0335 N84-12178
JORTNER, J.
Dynamics of large molecules and molecular clusters
[AD-A143386] 22 p3560 N84-32542
JORTNER, J. N.
Computer-Aided Structural Engineering (CASE) project. Reference manual: Computer graphics program for generation of engineering geometry (SKETCH)
[AD-A133493] 06 p0898 N84-15828
JORY, H.
Analysis of the output mode from 60 GHz, 200 kW pulsed and CW gyrotrons
[DE84-004586] 10 p1497 N84-19785
First 200 kW CW operation of a GHz gyrotron
[DE84-004573] 10 p1498 N84-19794
The 100 GHz, 1 MW, CW gyrotron study program
[DE84-005751] 12 p1813 N84-21819
60 GHz gyrotron development program
[DE84-006606] 13 p1987 N84-22899
JOSEPH, D. D.
Remarks on the stability of viscometric flow
[AD-A134571] 07 p1002 N84-16500
Two-fluid couette flow between concentric cylinders
[AD-A137969] 12 p1815 N84-21834
Instability of the flow of two immiscible liquids with different viscosities in a pipe
[AD-P002935] 14 p2196 N84-24175
Nonuniqueness and stability of the configuration of flow of immiscible fluids with different viscosities
[AD-P002937] 14 p2196 N84-24177
Hyperbolicity and change of type in the flow of viscoelastic fluids
[AD-A141508] 19 p3023 N84-29172
Oscillatory instability in a 2-fluid Benard problem
[AD-A142792] 21 p3399 N84-31565
Hopf bifurcation in two-component flow
[AD-A142844] 21 p3400 N84-31568
JOSHI, C.
Surfatron laser-plasma accelerator: Prospects and limitations
[DE84-005497] 11 p1663 N84-20854
Prospects of the surfatron laser plasma accelerator
[DE84-005463] 11 p1738 N84-21336
Wavelength scaling of the two plasmon decay and stimulated Raman scattering instabilities
[DE84-008934] 18 p2847 N84-28077
Plasma simulation studies of electron acceleration for beat wave and single frequency-laser heating schemes
[DE84-009968] 20 p3305 N84-30992
Studies of CO2 laser interactions with plasma
[DE84-012485] 20 p3307 N84-31004
JOSHI, S. M.
Regions of attraction and ultimate boundedness for linear quadratic regulators with nonlinearities
[NASA-TP-2322] 18 p2923 N84-28538
JOSLYN, H. D.
Compressor rotor aerodynamics 07 p0958 N84-16210
JOSS, J.
Digital radar information in the Swiss Meteorological Institute 18 p2886 N84-28319
Presentation of 5 films to illustrate the theory of precipitation measurements by radar 18 p2889 N84-28336
JOSSEFSSON, R.
Airborne fallout monitoring
[FOA-A-40045-A3] 08 p1183 N84-17705
JOST, A.
Efficiency and operating experience of Block Heating Power Stations (BHPS) 23 p3792 N84-34049
JOST, G. S.
A review of Australian investigations on aeronautical fatigue during the period April 1981 to March 1983
[AD-A130968] 03 p0388 N84-12532
Report on visit to the US and Europe in May 1983, covering the 1983 ICAF (International Committee on Aeronautical Fatigue) Meetings and related visits
[AD-A133415] 06 p0786 N84-15147
Strains in an elastic plate containing an interference-fit bolt near a free edge
[AR-003-012] 20 p3201 N84-30333
JOSWIG, H.
Measurements of integral state-specific cross sections of inelastic collisions between NO and noble gases
[MPIS-18/1983] 20 p3297 N84-30935
JOUMARD, R.
The lead file: Car fuel additives
[INFORM-NOTE-29] 17 p2725 N84-27341
JOURDAIN, J. L.
Kinetic studies of atmospheric reactions of OH radicals 13 p2012 N84-23050
Kinetics and products of the reaction OH + HNO3 13 p2012 N84-23051
JOURDAIN, J. M.
Testing and control of a compliant wrist
[AD-A140842] 17 p2748 N84-27445
JOVIC, S.
Study of large-scale mixing in developing wakes behind streamlined bodies
[NASA-CR-173478] 12 p1766 N84-21517
JOYCE, B. E.
Effect of atropine on the exercise-heat performance of man
[AD-A131843] 03 p0416 N84-12719
JOYCE, H.
ERS synthetic aperture radar design 23 p3783 N84-33989
The active microwave instrument for ERS-1 23 p3783 N84-33990
JOYCE, J. A.
Experimental investigation of tearing-instability phenomena for structural materials
[DE83-900676] 01 p0097 N84-10629
J-integral tearing instability analysis for 8-inch diameter ASTM A106 steel pipe
[AD-A142589] 20 p3153 N84-30023
JOYCE, J. W.
Fluidics: Basic components and applications
[AD-A134046] 05 p0679 N84-14485
JOYNT, R. J.
The quantum hall effect 04 p0611 N84-14036
JSEGER, D.
Increasing significance of electromagnetic effects in modern aircraft development 06 p0769 N84-15041
JU, F. D.
Heat checking in the contact zone of a face seal: A three-dimensional model of a single moving asperity
[AD-A130756] 01 p0079 N84-10513
Least favorable response of inelastic structures
[AD-A136289] 09 p1330 N84-18687
Identification of damage in hysteretic structures
[AD-A136342] 09 p1331 N84-18688
Mathematical models for damageable structures
[AD-A136574] 10 p1572 N84-20208
JU, Y. S.
On the study of the prediction method of ionospheric F2-layer critical frequency 24 p3955 N84-35043
JUBELIN, B.
Experimental methods in compressor noise studies 06 p0767 N84-15028
JUCKENACK, D.
Shaft-hub deformation analysis by means of holography
[SCHR-KONSTR.TECH-5] 19 p3028 N84-29204
JUDD, C. J.
Parameterization and shape of B-spline curves for CAD 19 p3080 N84-29541
JUDD, D. C.
An integrated space station propulsion system 20 p3139 N84-29933
JUDD, D. J.
Measurement of the energy resolution and related properties of an SCG1-C scintillation glass shower counter array for 1 to 25 GeV positrons
[DE84-007246] 14 p2148 N84-23871
Measurement of electromagnetic shower position and size with a saturated avalanche tube hodoscope and a fine grained scintillation hodoscope
[DE84-007247] 15 p2337 N84-25032
JUDD, M. D.
The Spacelab flight unit offgassing test
[ESA-STM-232] 23 p3701 N84-33460
JUDGE, D. L.
The interplanetary hydrogen and helium glow and the inferred interstellar gas properties 03 p0472 N84-13109
Pioneer 10 and Voyager observations of the interstellar medium in scattered emission of the He584 A and H Lya 1216 A lines
[NASA-CR-173931] 23 p3840 N84-34361
JUDGE, R.
Proton electrostatic analyzer
[AD-A133588] 06 p0848 N84-15528
JUDKOFF, R.
Measured versus predicted performance of the SERI test house: A validation study 16 p2513 N84-26128
JUDY, R. W., JR.
Draft standard method of test for plane-strain stress-corrosion-cracking resistance of metallic materials in marine environments
[AD-A139752] 15 p2297 N84-24785
JUERGENS, W.
Amorphous silicon solar cells
[BMFT-FB-T-83-112] 02 p0243 N84-11590
JUGAN, V. E.
Aircraft Spare Stockage Methodology (aircraft spares) study
[AD-A142259] 19 p2955 N84-28730
JUHASZ, A. A.
Effect of fabrication techniques on consolidated charge burning 13 p1948 N84-22668
JUILLAND, J. D.
Classification of the California Desert for geology-energy-mineral resource potential geostatistical classification
[PB84-100668] 10 p1538 N84-20078
JULIEN, H. L.
Flow visualizations, velocity measurements, and surface convection measurements in simulated 20.8-cm Nova box amplifier cavities
[DE84-004354] 10 p1501 N84-19812
JUMP, G. A.
Kinetics and mechanisms of thermolytic interconversions of boron hydrides
[AD-A143525] 22 p3547 N84-32455
JUNCAR, P.
Sensitive collinear laser spectroscopy on fast atom and ion beams
[DE84-003403] 10 p1456 N84-19512

JUNEAU, G. P.
Combustion of GAP, part 1 20 p3142 N84-29952
JUNG, B.
Radar remote sensing for crop classification and canopy condition assessment: Ground-data documentation [E84-10020] 01 p0099 N84-10643
JUNG, E.
Laser color recording unit [BMFT-FB-T-84-098] 21 p3411 N84-31633
JUNG, J.
Tokamak fusion reactors with less than full tritium breeding [DE83-016711] 03 p0446 N84-12936
JUNG, K. Y.
Digital communication in the presence of impulsive noise 06 p0827 N84-15392
JUNG, V.
The quick and complete recovery of the precious metals of low-grade sweeps and scrap [BMFT-FB-T-84-003] 15 p2299 N84-24801
JUNGBLUTH, W.
Reflectivity measurements of laser gyro mirrors [DFVLR-FB-83-35] 12 p1909 N84-22434
JUNGER, M. C.
Analytical model of the structureborne interior noise induced by a propeller wake [NASA-CR-172381] 21 p3490 N84-32119
JUNGERS, R. H.
Recent advances in EPA's (Environmental Prog monitoring and methods development research [PB83-231209] 01 p0115 N84-10743
JUNGERT, E.
Contour-to-grid transformation: Development of a method for generation of a sparse grid structure out of terrain elevation contours [FOA-C-30349-E1] 15 p2359 N84-25156
Data base dependent aggregation operators in a map oriented information system [FOA-C-30347-E1] 15 p2417 N84-25514
Computer-aided mapping in the USA: Experiences from a study tour in November 1983 [FOA-C-20533-D8] 19 p3042 N84-29304
JUNGMANN, H.
Oxygen affinity of hemoglobin, 3 hours after passive increase in altitude from 400 to 1800 metres [RAE-TRANS-2118] 22 p3630 N84-33004
JUNKEL, E. F.
Feedback in robotics for assembly and manufacturing [PB84-177112] 17 p2675 N84-27044
JUNKER, A.
On the structure of the uranium-niobium-chromium-system [BLL-TRANS-1104-(7291.7965)] 19 p2991 N84-28954
JUNKINS, R.
Operation and maintenance of selected ozone and ultraviolet disinfection systems [PB84-180124] 20 p3265 N84-30719
JUNTZ, R.
Development of high strength braze joints in beryllium [DE84-007243] 13 p1998 N84-22964
JURANEK, H. J.
Optimizing tools for generating spherical surfaces and polishing powders in optical production technology [BMFT-FB-T-84-094] 21 p3499 N84-32178
JURAVIC, F.
Helium leak detector improved sensitivity speed choke [DE84-005160] 10 p1498 N84-19793
JURAVIC, F. E., JR.
Improved gaseous leak detector [DE84-011295] 20 p3190 N84-30265
JURGAN, H.
Migration of natural gas and resevoir formation in east lower Saxony [BMFT-FB-T-83-153] 02 p0250 N84-11639
JURGENS, R. F.
Mapping and geological analysis of Mercury radar data 13 p2089 N84-23532
Mercury: Topographic and geologic data from Earth-based radar observations 13 p2089 N84-23533
Goldstone R/D high speed data acquisition system 16 p2480 N84-25899
JURKSCH, G.
Reports from the German Meteorological Service, no. 163. Contribution to the classification of waste heat weather situations by means of thermal stratification. Upper Rhine model. Waste heat project, Upper Rhine, part 2 [ISBN-3-88148-206-7] 12 p1849 N84-22048
Reports from the German Meteorological Service. Number 165: The wind conditions in the Federal Republic of Germany with a view to windpower utilization (especially network planning). Part 3: Interior. Part 4: Hinterland [ISBN-3-88148-211-3] 19 p3057 N84-29393
JUROGIN, O.
Use of robots in Estonian auto, machine tool industries viewed 14 p2155 N84-23916
JUSEM, J. C.
Two-dimensional finite amplitude mountain waves in the presence of moisture 22 p3622 N84-32947
JUSKEVICIUS, R. A.
The effect of pressure on complex heat exchange in a channel with an electric arc [BLL-OA-TRANS-3090-(6196.3)] 09 p1311 N84-18569
JUSTAS, A. L.
Surplus Facilities Management Program. Post-remedial-action survey report for SNAP-8 Experimental Reactor Facility, building 010 site, Santa Susana Field Laboratories, Rockwell International, Ventura County, California [DE84-009591] 21 p3497 N84-32165
JUSTICE, C.
A preliminary analysis of LANDSAT-4 Thematic Mapper radiometric performance 20 p3208 N84-30379
JUSZCZAK, N. M.
Brain responses and information processing IV. Investigations of hemispheric asymmetry in event related potentials and performance during discrimination of line orientation, color, shape and under visual masking [AD-A139797] 15 p2383 N84-25289
JUTRAS, R. R.
Subsonic/transonic stall flutter investigation of a rotating rig [NASA-CR-174625] 23 p3695 N84-33417
JUTZI, W.
Development of integrated digital circuits with Josephson junctions [BMFT-FB-T-84-044] 19 p3113 N84-29777
JUVET, P. J. D.
Analysis of sound produced by wind turbines in turbulent flow [FFA-TN-1983-44] 09 p1387 N84-19057

K

KAAIJK, J.
Results and interpretation of labor-hygienic studies in the paintshop of the jet engine depot of the Woensdrecht airbase [PML-1982-54] 02 p0269 N84-11759
Investigation of the usefulness of the smoke generator Draeger model MK V for fire services exercises onboard ships [PML-1983-6] 12 p1804 N84-21759
KAAS, W.
Development of a multilayer process based on the down draft principle for the sintering of iron ore [BMFT-FB-T-83-065] 02 p0197 N84-11282
KABA, S. A.
Interactive computer analysis methods for predicting the inelastic cyclic behaviour of structural sections [PB84-192012] 20 p3205 N84-30358
KABANOV, V. A.
The time-spatial structure of microwave radio fields on line-of-sight overwater paths [REPT-220] 17 p2651 N84-26955
KABAT, W. C.
Automated design of combinational networks under specific constraints: A theorem proving approach [AD-P002377] 14 p2195 N84-24168
KABE, A. M.
Multi-shaker random mode testing [AD-A142094] 19 p3089 N84-29608
KABIL, M. M.
A system dynamics approach to measuring the value of information [AD-A141051] 19 p3115 N84-29794
KABLEC, E. G.
Jet spoiler arrangement for wind turbine [DE84-011303] 21 p3434 N84-31787
KACENJAR, S.
A novel X-ray backlighting method for Rayleigh-Taylor instability measurements on ablatively driven targets [AD-A138644] 13 p1993 N84-22937
Introduction to the Laser-HANE experiment and summary of low-pressure interaction results [AD-A138945] 13 p1996 N84-22952
Magnetic bubble formation produced by an expanding laser plasma [AD-A139188] 14 p2228 N84-24359
Modified Thomson parabola ion spectrometers for use in laser generated plasma experiments [AD-A143298] 22 p3658 N84-33190
KACHANOV, M.
On stress analysis of a crack-layer [NASA-CR-174774] 24 p3912 N84-34774
KACHANOVSKIY, K. N.
Effects of short-term heat adaptation on certain indicators of physical capacity for work 18 p2897 N84-28380
KACZINSKI, R.
Method for creating synthesized images using diazo color films 19 p2978 N84-28875
KACZMAREK, B.
Automation of a drop forge at the Centre Techniques des Industries Mecaniques (CETIM) forge section [CETIM-1.3K.27.3] 21 p3376 N84-31423
Construction of a test bench for closed die forging [CETIM-5.580.50] 21 p3376 N84-31425
KACZMAREK, J.
Acoustic emission accompanying phase change in deformed 1H18N9T steel [ISSN-0208-5658] 19 p2991 N84-28952
KACZMAREK, R. E.
Tangential mode instability in double-base solid rocket motors: A case study 13 p1946 N84-22652
KADABA, P. K.
A feasibility study of electromagnetic DE-spin system for Earth orbiting satellites 06 p0930 N84-16040
Development of limb volume measuring system [NASA-CR-171789] 16 p2495 N84-26008
KADER, B. A.
Wind velocity and temperature profiles in atmospheric surface layer for neutral and unstable stratification conditions 18 p2865 N84-28189
KADISH, A.
An electrodynamic interpretation of virtual-cathode oscillations [DE84-008001] 14 p2142 N84-23846
KADLEC, D. L.
General Electromagnetic Model for the Analysis of Complex Systems (GEMACS) user manual (version 3), volume 1 [AD-A137461] 10 p1480 N84-19669
General Electromagnetic Model for the Analysis of Complex Systems (GEMACS) engineering manual (version 3), volume 2 [AD-A137462] 10 p1480 N84-19670
General Electromagnetic Model for the Analysis of Complex Systems (GEMACS) engineering manual (version 3), volume 3 [AD-A137463] 10 p1480 N84-19671
General Electromagnetic Model for the Analysis of Complex Systems (GEMACS) computer code documentation (version 3), volume 3, part 3 [AD-A137509] 10 p1480 N84-19673
General Electromagnetic Model for the Analysis of Complex Systems (GEMACS) computer code documentation (version 3), volume 3, part 4 [AD-A137510] 10 p1480 N84-19674
General Electromagnetic Model for the Analysis of Complex Systems (GEMACS) computer code documentation (version 3), volume 3, part 2 [AD-A137464] 11 p1644 N84-20750
KADOTA, E.
Some test results of synthetic aperture radar transmitter and receiver 23 p3783 N84-33988
KADOTA, K.
Atomic collision data for beam probe diagnostics of magnetically confined high temperature plasmas 11 p1735 N84-21318
KADOWAKI, S.
Introduction to the International Satellite Cloud Climatology Project (ISCCP) 24 p3922 N84-34822
KADRO, A.
Investigation of spectral signatures of differently damaged trees and forest stands 23 p3769 N84-33892
KADYKOV, I. F.
Seismological investigations in the Indian Ocean by autonomous OBS 19 p3060 N84-29416
KADYROV, V. K.
Use of concentrated solar energy to form slip coatings 24 p3874 N84-34552
KADYSHEVSKII, V. S.
The cathode material for a plasma-arc heater [BLL-OA-TRANS-3126-(6196.3)] 08 p1232 N84-18053
KAEKER, J.
Further development in electron beam lithography [BMFT-FB-T-83-099] 02 p0216 N84-11415
KAELLNE, E.
Development of a high resolution cylindrical crystal spectrometer for line shape and spectral diagnostics of X-rays emitted from-hot-plasmas [DE84-005664] 11 p1661 N84-20835
High resolution X-ray spectra of H- and He-like argon from the Alcator C Tokamak 11 p1735 N84-21321
KAELLNE, J.
High resolution X-ray spectra of H- and He-like argon from the Alcator C Tokamak 11 p1735 N84-21321

KAEMPF, B.
An extremal-variational principle for unsteady thermal conduction applied to thermoelastic problems using finite elements
[MITT-35] 12 p1814 N84-21826
KAEPPELER, H. J.
Theoretical treatment of turbulent plasma dynamics 10 p1584 N84-20381
The basic equations for a four component theory of turbulent magnetoplasmadynamics
[IPF-83-3] 12 p1911 N84-22453
The significance of the pinch phase for the production of neutrons in a plasma focus
[IPF-83-2] 14 p2231 N84-24379
KAESTNER, F.
Concepts for avionic and weapon integration facilities 06 p0774 N84-15070
KAFADAR, K.
A retrievable recipe for inverse t
[AD-A142557] 20 p3281 N84-30829
KAFER, G.
Space shuttle descent flight control design requirements and experiments Learned, Pt. 1 p 617-628 01 p0022 N84-10142
KAFURA, D. G.
A specification technique for the common APSE (Ada programming support environments) interface set
[AD-A140689] 17 p2754 N84-27479
KAGAN, B. A.
Modeling seasonal evolution of thermal regime of ocean-atmosphere system 17 p2697 N84-27181
KAGANO, M. T.
The southern oscilation: Oceanic-atmospheric circulation changes and related rainfall anomalies
[INPE-2903-PRE/420] 02 p0253 N84-11656
KAGANOVSKIY, I. P.
Assurance of unity of tests of semiconductor products 17 p2637 N84-26868
KAGAWA, T.
Atomic processes in hot dense plasma
[IPPJ-AM-31] 03 p0443 N84-12911
Bibliography on atomic processes in hot dense plasmas
[IPPJ-AM-29] 03 p0443 N84-12913
KAGE, G. D., II
Estimating the cost of composite material airframes using the Rand Corporation Development and Procurement Costs of Aircraft parametric model (DAPCA III)
[AD-A134993] 08 p1095 N84-17120
KAHAN, A.
Static frequency-temperature characteristics of doubly rotated quartz
[AD-A142456] 20 p3309 N84-31013
KAHAN, E.
The Z-pinch program at Imperial College 10 p1583 N84-20372
KAHANA, S.
Recent results in the study of heavy-ion eleastic scattering at large angles
[DE83-012214] 01 p0142 N84-10935
Mean field theory of the linear sigma-model: Chiral solitons
[DE84-002864] 08 p1229 N84-18034
Type II successful supernovae, the anatomy of shocks: Neutrino emission and the adiabatic index
[DE84-002858] 11 p1757 N84-21472
KAHANER, D. K.
Guide to available mathematical software
[PB84-171305] 16 p2545 N84-26337
KAHLE, A. B.
Evaluation of thermal data for geologic applications
[NASA-CR-173211] 07 p1033 N84-16703
Demonstration of an active airborne IR laser system for geologic remote sensing 23 p3782 N84-33984
KAHLE, H. G.
Space laser applications in geophysics 24 p3903 N84-34719
Earth's rotation and its geophysical implications 24 p3904 N84-34720
KAHLER, R. C.
An experimental investigation of the improvement in the reception of TM (Transverse Magnetic)-polarized LF (Low-Frequency) waves with a two-element spaced array
[AD-A142478] 20 p3175 N84-30159
KAHN, J. M.
Deep level impurities in germanium and silicon: Low temperature passivation or removal techniques
[DE84-006772] 13 p2048 N84-23286
KAHN, L. F.
Interface bonding of shotcrete reinforced brick masonry assemblages, volume 1
[PB83-223206] 01 p0058 N84-10382
Interface bonding of shotcrete reinforced brick masonry assemblages. Volume 2: Appendices
[PB83-223214] 01 p0059 N84-10383
KAHN, W. D.
Geodynamics Branch research report, 1982
[NASA-TM-85078] 02 p0233 N84-11527
Research activities of the Geodynamics Branch
[NASA-TM-86123] 20 p3220 N84-30455
Accuracy of mapping the Earth's gravity field fine structure with a spaceborne gravity gradiometer mission 20 p3222 N84-30473
KAHNEMAN, D.
External versus intuitive reasoning: The conjunction fallacy in probability judgment
[AD-A131801] 04 p0574 N84-13778
KAHYAI, S.
Finite element analysis of wrinkling membranes
[NASA-CR-172325] 14 p2158 N84-23926
KAI, K.
Acceleration and confinement of energetic particles in the 7 June 1980 solar flare
[NASA-CR-173545] 16 p2580 N84-26550
Microwave and X-ray observations of delayed brightenings at sites remote from the primary flare locations
[NASA-TM-86140] 22 p3680 N84-33326
KAI, L.
Drag on geodynamic satellites 19 p3118 N84-29818
KAI, T.
Dual corelated random excitation technique for modal testing
[NAL-TR-762] 09 p1372 N84-18962
KAIER, U.
Heating with wind energy, part B
[BMFT-FB-T-83-131-PT-B] 03 p0405 N84-12651
KAILASANATH, K.
The relation between power and energy in the shock initiation of detonations. 1: Basic theoretical considerations and the effects of geometry
[AD-A133468] 06 p0844 N84-15505
Energy release and fluid dynamics in multiphase systems
[AD-A142402] 20 p3184 N84-30228
Numerical simulations of the structure and propagation of self-sustained detonations
[AD-A142486] 20 p3184 N84-30230
KAILATH, T.
Statistical data processing, system modeling and reliability
[AD-A135208] 08 p1223 N84-17984
Research in VLSI (Very Large Scale Integration) systems
[AD-A136413] 09 p1307 N84-18542
New adaptive processor for coherent signals and interference
[AD-A142638] 20 p3273 N84-30776
Determining the number of signals by information theoretic criteria
[AD-A142748] 21 p3386 N84-31486
Pipelined orthogonal digital lattice filters
[AD-A143902] 23 p3818 N84-34208
A new adaptive antenna system for coherent signals and interference
[AD-A144355] 24 p3898 N84-34683
Spatio-temporal spectral analysis by eigenstructure methods
[AD-A144361] 24 p3951 N84-35017
KAINZ, W.
Actitities report on the projet DESBOD
[REPT-5] 03 p0460 N84-13025
KAIPA, R.
The rapidly moving telescope: An instrument for the precise study of optical transients 09 p1407 N84-19193
KAIRYS, A. A.
Development and flight evaluation of an augmented stability active controls concept with a small horizontal tail
[NASA-CR-165951] 19 p2967 N84-28805
KAISER, B.
Precision clock generators in Ta thin film technology
[BMFT-FB-T-84-073] 19 p3019 N84-29144
KAISER, B. J.
Imaging of fast-neutron sources using solid-state track-recorder pinhole radiography
[DE84-001466] 05 p0685 N84-14504
Continuous energy gamma-ray spectrometry
[DE84-006349] 14 p2123 N84-23726
KAISER, J. A. C.
Real-time processing system for the NRL (Naval Research Laboratory) remote sensing experiment: Phelps Bank, July 1982
[AD-A132151] 04 p0553 N84-13645
Data validation and summary for the NRL remote sensing experiment: Phelps Bank, July, 1982. Part 2: Meteorology
[AD-A132105] 04 p0553 N84-13646
Data validation and summary for the NRL remote sensing experiment. Phelps Bank, July 1982. Part 1: Hydrography
[AD-A132083] 05 p0697 N84-14575
KAISER, K. W.
Improved techniques for data acquisition and analysis on X-ray diffraction equipment
[Y-2282] 23 p3750 N84-33774
KAISER, M. L.
Saturn's ionosphere: Inferred electron densities
[NASA-TM-85121] 07 p1092 N84-17102
A radiometric Bode's Law: Predictions for Uranus
[NASA-TM-86074] 17 p2781 N84-27659
KAISER, T. B.
Interaction of the precessional wave with free-boundary Alfven surface waves in tandem mirrors
[DE84-012527] 20 p3307 N84-31003
KAISER, W. R.
Estimation of uncertainty in coal resources
[DE83-902538] 03 p0401 N84-12620
KAKAR, R. K.
Retrieval of vertical moisture profiles with microwave radiometry 23 p3775 N84-33929
KAKIZAKI, M.
Study on strength, elastic modulus of artifical lightweight aggregate concrete
[PB83-224824] 01 p0059 N84-10389
KAKO, E.
ICRF heating experiments on JIPP T-II
[IPPJ-650] 10 p1580 N84-20352
Ion Bernstein wave heating experiment on JIPPT-II-U device
[IPPJ-662] 11 p1734 N84-21305
Impurity origin during ICRF heating in JIPP T-IIU Tokamak
[IPPJ-682] 23 p3827 N84-34271
KAKOS, S.
Shot noise limited detection of OH using the technique of laser induced fluorescence
[NASA-CR-175433] 11 p1662 N84-20844
KALAFUS, R. M.
Synopsis and recommendations of the TSC Workshop on differential operation of NAVSTAR GPS, June 1983
[PB84-121599] 08 p1103 N84-17170
NAVSTAR GPS simulation and analysis program
[PB84-134402] 10 p1427 N84-19332
Differential NAVSTAR GPS (Global Positioning System) design concept for Harbor/Harbor entrance marine navigation
[AD-A141665] 19 p2961 N84-28769
KALAGIAN, G.
Analysis of technical possibilities for further sharing of the UHF television band by the land mobile services in the top ten land mobile markets
[PB84-123116] 08 p1148 N84-17470
KALAGIAN, G. S.
Advanced technology UHF receiver study. Part 2: Effect on UHF television allotments
[PB84-173848] 16 p2483 N84-25921
KALALE, K. P. L.
Study of large-scale mixing in developing wakes behind streamlined bodies
[NASA-CR-173478] 12 p1766 N84-21517
KALANDAROV, S.
Energy metalbolism enzymes in simulation of some spaceflight factors 02 p0260 N84-11704
Effect of high ammonia content in pressure chamber atmosphere on human adrenocortical system function 20 p3255 N84-30658
KALANDAROVA, M. P.
Evaluation of human blood morphological composition during exercise in sealed chamber with different concentrations of ammonia 07 p1045 N84-16779
KALASHNIKOV, M. P.
Studies of amplifier module in Delfin Facility for heating thermonuclear plasma 20 p3289 N84-30881
KALATA, P. R.
An information-theoretic approach to target estimation of a laser radar tracking system
[AD-A142247] 19 p3008 N84-29067
KALB, M.
Climatological and statistical bases to explain the treatment of climate data 19 p3056 N84-29391
KALB, M. W.
Initialization of a mesoscale model for April 10, 1979, using alternative data sources
[NASA-CR-3826] 24 p3921 N84-34815
Numerical simulation of mesoscale precipitation 24 p3930 N84-34876

KALBACH, J.
Requirements for a transformerless power conditioning system
[NASA-CR-173742] 18 p2833 N84-27981
KALBE, H.
Access to maintenance via Aircraft Integrated Data System (AIDS): Future aspects of the expanded AIDS
17 p2585 N84-26567
KALEJA, J. P.
Experimental aspects of the study of stress generating mechanisms in silicon sheet growth
18 p2938 N84-28635
KALIA, R. K.
Melting of electrons on corrugated surfaces: Structural and dynamical properties in liquid and solid phases
[DE84-004023] 09 p1397 N84-19122
KALIBJIAN, R.
Ultrafast gated intensifier design for laser fusion X-ray framing applications
[DE84-007761] 15 p2339 N84-25038
KALINA, G. P.
Alfomonades: New group of vibrionaceae family microorganisms 17 p2742 N84-27410
KALINICHENKO, I.
MHD technology in aluminum casting
23 p3706 N84-33491
KALINICHENKO, V. V.
Changes in cardiac output and orthostatic stability of cosmonauts 02 p0259 N84-11697
KALINICHEV, V. I.
Concerning Q of a cylindrical dielectric resonator screened by a waveguide 17 p2631 N84-26832
KALININ, A. V.
Spherical wave refraction with short distances of source from interface 17 p2702 N84-27212
KALININ, E. V.
Stabilization of thickness of zinc coating by adaptive system of control
[BLL-M-35367-(5828.4)] 09 p1281 N84-18364
KALININ, I. F.
Nature of formation of stopper defect in hoisting ropes
[BLL-M-35544-(5828.4)] 17 p2674 N84-27036
KALININA, I. G.
Metal coating of diamond abrasives (review of foreign patents)
[CSIR-TRANS-1740] 22 p3552 N84-32489
KALINOWSKI, A. J.
Propagating plane harmonic waves through finite length plates of variable thickness using finite element techniques 06 p0860 N84-15601
Propagation of flexural and membrane waves with fluid loaded NASTRAN plate and shell elements
06 p0860 N84-15602
KALINOWSKI, W. J.
Fast optical position-sensitive detector for McPherson ESCA-36
[AD-A132606] 05 p0685 N84-14501
KALINSKI, J. R.
Intelligent instruments for process measurement techniques (monitoring of sensors)
[BMFT-FB-T-84-078] 21 p3407 N84-31611
KALIOKOSKI, J.
Geology, hydrology, and mineral resources of crystalline rock areas of the Lake Superior region, US, part 1
[DE84-012682] 21 p3432 N84-31775
KALISKI, M. E.
Asynchronous discrete control of continuous processes
[AD-A135257] 08 p1215 N84-17930
KALKER, J. J.
Introduction to the FORTRAN 14 programs Duvorol and Contact for the solution of 3 D elastostatic half-space contact problems with and without friction
[PB83-147421] 06 p0898 N84-15833
Two algorithms for the contact problem in elastostatics, 1982
[PB83-147678] 20 p3275 N84-30793
KALKHOF, H. G.
Comparison between vortex flowmeter and pressure flowmeters
[PTB-ME-47] 10 p1499 N84-19800
KALKNER, W.
Electrochemical-treeing (ECT) structures in high-voltage cable insulation
[BMFT-FB-T-83-087] 02 p0215 N84-11413
KALLERGIS, M. K.
Propeller and rotor noise testing in aeroacoustic wind tunnels 14 p2097 N84-23583
KALLFASS, T.
Precision clock generators in Ta thin film technology
[BMFT-FB-T-84-073] 19 p3019 N84-29144
KALLIANPUR, G.
The nonlinear filtering problem for the unbounded case
[AD-A136501] 09 p1376 N84-18985
Infinite dimensional stochastic differential equation models for spatially distributed neurons
[AD-A136507] 09 p1376 N84-18986
Research in stochastic processes
[AD-A136222] 09 p1381 N84-19018
Research in stochastic processes
[AD-A137736] 11 p1717 N84-21202
KALLISTRATOVA, M. A.
Limiting ranges in atmospheric radioacoustic sounding
17 p2707 N84-27238
Comparison of qualitative and quantitative measurements of temperature turbulence with monostatic sodar 18 p2885 N84-28188
KALLMAN, T. R.
Spectral variability in early-type binary X-ray systems
[NASA-TM-86060] 09 p1407 N84-19195
KALMAN, G. J.
Strong coupling effects on bound states in plasmas
[AD-A131661] 03 p0444 N84-12918
KALMYKOVA, T. N.
Formation of structure of low-alloy steel inoculated with rare-earth metals and alkaline-earth metals
[BLL-M-35321] 04 p0497 N84-13258
KALNAY, E.
Simulation studies of proposed observing systems and their impact on numerical weather prediction
12 p1850 N84-22050
FGGE data impact studies in the Southern Hemisphere 12 p1850 N84-22054
SASS wind forecast impact studies using the GLAS and NEPRF systems: Preliminary conclusions
12 p1851 N84-22055
Regional correlation between TOMS total ozone from NIMBUS-7 satellite and geopotential height from the GLAS analysis 12 p1851 N84-22056
Comparison of GLAS retrieved cloud fields with model generated rainfall fields 12 p1851 N84-22061
Applications of cluster analysis to satellite soundings
12 p1852 N84-22065
Effect of high latitude filtering on NWP skill
12 p1852 N84-22066
Lagged average forecasting, some operational considerations 12 p1854 N84-22075
Documentation of the GLAS fourth order general circulation model. Volume 1: Model documentation
[NASA-TM-86064-VOL-1] 14 p2179 N84-24048
Documentation of the GLAS fourth order general circulation model. Volume 2: Scalar code
[NASA-TM-86064-VOL-2] 14 p2179 N84-24049
Documentation of the GLAS fourth order general calculation model. Volume 3: Vectorized code for the Cyber 205
[NASA-TM-86064-VOL-3] 14 p2179 N84-24050
The impact of scatterometer wind data on global weather forecasting 17 p2720 N84-27314
KALRA, V.
Solid state power controller fuse development program
[AD-A142118] 19 p3016 N84-29118
KALSON, S.
The least squares lattice algorithm: An alternate derivation with a discussion of numerical conditioning
[AD-A143439] 22 p3645 N84-33114
KALTHOFF, J. F.
Fracture behavior under impact
[AD-A136056] 09 p1333 N84-18702
Fracture behavior under impact
[AD-A136057] 09 p1333 N84-18703
On some current problems in experimental fracture dynamics
[AD-P003102] 16 p2466 N84-25807
Short pulse fracture mechanics
[AD-P003105] 16 p2467 N84-25810
KAMA, W. N.
The effect of haze on an operator's visual field and his target detection performance
[AD-A138330] 13 p2020 N84-23099
KAMA, W. W.
Visual perception through windscreens: Effects of minor occlusions and haze on operator performance
[AD-P003223] 17 p2596 N84-26636
KAMANO, T.
Brushless self-excited type three-phase synchronous motor driven by GTO inverter 07 p0983 N84-16366
KAMARATOS, E.
Mean excitation energies for stopping powers in various materials using local plasma oscillator strengths
[NASA-TP-2271] 11 p1760 N84-21485
KAMAT, M. P.
Finite element analysis of bonded joints
[AD-A140559] 17 p2680 N84-27068
KAMATH, G. S.
Recent advances in LPE GaAs-based solar cells
19 p3044 N84-29310
KAMATH, V. A.
Heat and mass transfer during the growth and dissociation of gas hydrates in porous media
[PB83-255414] 05 p0682 N84-14482
KAMBAROV, N. S.
Interpretation of gravitational anomalies on Mars, Venus and Earth 19 p2975 N84-28859
KAMBE, T.
Sound radiation by vortex-body interaction
07 p0982 N84-16360
KAMBER, H.
Comparative force measurements on half and whole models of a heavy lift wing in the large wind tunnel Emmen
[F/W-50-1596] 10 p1422 N84-19301
KAMCHI, J. S.
Training capabilities: The facility part of the equation
[AD-P003457] 21 p3510 N84-32234
KAMDAR, M. H.
Embrittlement of 4340 type steel by liquid lead and antimony and lead-antimony solutions
[AD-A143785] 23 p3718 N84-33567
KAMEDA, J.
Ductile-brittle transition temperature measurement of temper embrittled Ni-Cr steels by means of small punch tests
[DE84-012833] 20 p3158 N84-30054
KAMEL, H. A.
Design of array processor software for nonlinear structural analysis
[AD-A137767] 11 p1706 N84-21124
KAMELANDER, G.
Physical models and numerical methods of the reactor dynamic computer program RETRAN
[OEFZS-4272] 18 p2931 N84-28587
KAMEN, E. W.
Control of parameter-dependent systems, spatially-distributed systems, and systems with delays
[AD-A138036] 12 p1897 N84-22354
KAMEN, J. S.
The effects of environment and dwell on high temperature fatigue crack growth of 2 1/4 Cr - 1 Mo steel
[AD-A132147] 04 p0549 N84-13617
KAMENETSKAYA, Y. P.
International space organizations
09 p1265 N84-18261
KAMENEV, Y. Y.
Multifrequency emission from submillimeter lasers
21 p3487 N84-32096
KAMENSKIY, Y. N.
Choice of psychophysiological criterion to assess whole-body low-frequency vibration
15 p2376 N84-25255
KAMENTSKY, L. A.
Physiology 22 p3684 N84-33363
KAMESWARARAO, N.
The hydrogen-deficient irregular variable star V348 SGR 24 p3978 N84-35200
KAMEYAMA, M.
Image processing algorithms for a multiple-valued array processor
[AD-P002359] 14 p2193 N84-24150
KAMIDE, Y.
Numerical modeling of ionospheric parameters from global IMS (International Magnetospheric Study) magnetometer data for the CDAW-6 intervals
[PB84-151307] 14 p2177 N84-24041
Distributions of aurora and ionospheric currents observed simultaneously on a global scale
[AD-A140615] 17 p2727 N84-27360
KAMIMIYTAT, Y.
Crystal growth of artificial snow
18 p2799 N84-27763
KAMIMURA, T.
Transport studies of ECH heated bumpy torus plasmas
[IPPJ-652] 10 p1580 N84-20353
Experimental studies on plasma confinement in Nagoya bumpy torus
[IPPJ-655] 10 p1580 N84-20355
Turbulent diffusion for the radial twist map
[IPPJ-685] 23 p3826 N84-34267
KAMINAR, C. R.
Development of mechanically-stacked multijunction solar cell for concentrator applications
[DE84-008355] 15 p2363 N84-25177
KAMINER, N. S.
About the profile of cosmic ray intensity increase prior to Forbush-decrease 24 p3994 N84-35279
KAMINSKI, C.
Determination of the Io heat flow. 1: Eclipse observations
[NASA-CR-173631] 17 p2774 N84-27614

KAMINSKIY, A. A.
New lasing ferroelectric material Pb5Ge3O11-Nd-3(+)
20 p3288 N84-30875
KAMINSKY, Y.
Test and evaluation of the Satellite-Aided Maritime Search and Rescue System (SAMSARS). Volume 1: System description and test results
[PB84-184621] 22 p3540 N84-32412
Test and evaluation of the Satellite-Aided Maritime Search and Rescue System (SAMSARS). Volume 2: Hardware circuitry and software programs
[PB84-184639] 22 p3540 N84-32413
KAMIS, D. N.
A self-contained captive trajectory system for a blowdown wind tunnel 14 p2099 N84-23596
KAMITAKAHARA, W. A.
Intercalate phonon densities of states for alkali-graphite compounds
[DE83-016515] 02 p0188 N84-11225
Phonon dispersion of transverse basal-plane modes in alkali-graphite compounds
[DE83-003910] 03 p0350 N84-12273
KAMITSOS, E. I.
Raman studies of CuTCNQ: Resonance Raman spectral observations and calculations for TCNQ ion-radicals
[AD-A130570] 01 p0037 N84-10231
Vibrational spectra of single and mixed alkali pentasilicate glasses
[AD-A130527] 01 p0049 N84-10318
KAMITSUMA, M.
Numerical simulation of spacecraft charging phenomena at high altitude
[AD-A130043] 01 p0028 N84-10178
The threshold temperature effect in high-voltage spacecraft charging
[AD-P002120] 16 p2524 N84-26206
KAMIYA, Y.
Motion of ionized electrons under the intense electromagnetic field of the beam
[DE84-001396] 04 p0599 N84-13955
KAMMAN, J. W.
Modelling of submerged cable dynamics
[AD-A132495] 04 p0544 N84-13580
User's manual for CABLE: A three-dimensional, finite-segment computer code for submerged and partially submerged cable systems
[AD-A132515] 04 p0579 N84-13821
KAMMER, D. C.
Dynamic response of rotating beams with nonconstant angular velocity 16 p2503 N84-26067
KAMMERECK, H.
Detinning of tin plate scrap
[BMFT-FB-T-84-045] 16 p2466 N84-25805
KAMMERRUD, R.
Thermal effects resulting from occupant behavior and building operation 16 p2515 N84-26143
KAMMERUD, R. C.
The predicted impact of linear roof apertures on the energy performance of office buildings
16 p2514 N84-26133
Computer program for studying turbulent convection in buildings 16 p2517 N84-26155
KAMO, R.
Utilization of SRC-2 fuel in an insulated diesel engine
[DE84-004386] 20 p3167 N84-30111
Positive displacement compounding of a heavy duty diesel engine
[NASA-CR-168286] 21 p3413 N84-31641
KAMOTO, K.
Measurements of microwave backscattering signatures of the ocean surface using X-band and Ka-band airborne scatterometer/radiometer system
23 p3771 N84-33907
KAMOWITZ, D.
A study of some multi-grid ideas
[AD-A144465] 24 p3951 N84-35021
KAMPAS, F. J.
Optical emission and mass spectrometric studies of plasma deposition
[DE83-016700] 02 p0191 N84-11243
Effect of silane fraction on the optoelectronic and photovoltaic properties of RF-glow-discharge a-Si:H prepared from SiH4 + H2 mixtures
[DE83-016730] 04 p0615 N84-14058
Low temperature (150 to 250(0)C) deposition of n(+) and p(+) microcrystalline silicon for VLSI device contacts
[DE84-006474] 14 p2243 N84-24470
Mechanisms involved in the glow-discharge deposition of doped hydrogenated amorphous silicon
[DE84-013124] 22 p3665 N84-33236
Nucleation and growth of N- and P-type microcrystals in low-temperature glow-discharge deposited silicon films
[DE84-013122] 22 p3667 N84-33246
KAMPMANN, R.
The neutron induced embrittlement of reactor pressure vessel steels and ferritic alloys
[AD-B080746] 15 p2295 N84-24770
KAN, H. K. A.
Auger characterization of new and aged dispenser cathode surfaces
[AD-A140754] 17 p2663 N84-26988
KANADE, T.
Appropriate lengths between phalanges of multijointed fingers for stable grasping
[AD-A133448] 06 p0894 N84-15806
An optical proximity sensor for measuring surface position and orientation for robot manipulation
[AD-A134899] 06 p1205 N84-17861
KANAKIS, G. D.
The effect of condensate inundation on steam condensation heat transfer to wire-wrapped tubing
[AD-A132175] 04 p0615 N84-14060
KANAL, L. N.
Analysis of subpixel registration accuracy
03 p0394 N84-12570
KANAMORI, H.
Effective use of earthquake data
[AD-A134077] 06 p0878 N84-15712
Performance characteristics of VAD single mode fibers in mass production basis 11 p1725 N84-21254
KANAZAWA, Y.
A small and light weight heat exchanger for on-board helium refrigerator 06 p0819 N84-15339
KANDA, H.
A new method of evaluating the side wall interference effect on airfoil angle of attack by suction from the side walls
[NASA-TM-77722] 24 p3852 N84-34432
KANDA, M.
The characteristics of iris-fed millimeterwave rectangular microstrip patch antennas
[PB84-134634] 11 p1648 N84-20775
KANDEL, A.
A comparison of fuzzy switching functions and multiple-valued switching functions
[AD-P002363] 14 p2193 N84-24154
KANDO, M.
External excitation of ion cyclotron drift waves in a two-ion species plasma
[IPPJ-665] 13 p2044 N84-23264
KANDO, P. F.
Development of an industry-based residential thermal program evaluation program 16 p2515 N84-26139
KANDROR, I. S.
Electrosleep in prophylaxis of psychoneural stress and recovery of mental performance in operators
18 p2895 N84-28367
Effects of long-term exposure to low positive temperatures on cold-induced vasodilation
18 p2896 N84-28371
KANE, M. F.
Principal facts for gravity stations in the Nevada portion of the Kingman 1 degree by 2 degree quadrangle
[PB84-103084] 08 p1189 N84-17749
Aeromagnetic map of Yucca Mountain and surrounding regions, southwest Nevada
[DE84-003920] 10 p1526 N84-19995
KANE, R.
A Systolic Design Rule Checker (SDRC)
[AD-A136194] 09 p1378 N84-19006
KANE, R. H.
Oxidation of Inconel alloy MA754 at low oxidation potential
[DE83-017191] 04 p0501 N84-13288
KANE, R. J.
Review of the tandem mirror experiment-upgrade (TMX-U) machine-parameter-instrumentation system
[DE84-003243] 07 p1078 N84-17009
KANE, R. P.
Comparison of SCC magnitudes at MAGSAT altitudes (325-550 km) and at ground locations
[INPE-2890-PRE/409] 02 p0239 N84-11564
Periodicities in the rainfall patterns of different regions in India
[INPE-2899-PRE/418] 02 p0253 N84-11657
Maximum entropy spectral analysis of total zone
[INPE-2979-PRE/441] 07 p1032 N84-16694
Longitudinal extent of the characteristics of the equatorial electrojet
[INPE-3027-PRE/465] 12 p1847 N84-22038
Are droughts predictable?
[INPE-3274-PRE/598] 24 p3923 N84-34826
KANE, S. R.
Acceleration and confinement of energetic particles in the 7 June 1980 solar flare
[NASA-CR-173545] 16 p2580 N84-26550
KANE, V. E.
Assessment of Fisher and logistic linear quadratic discrimation models
[ORNL/CSD-TM-200] 06 p0904 N84-15865
KANEDA, T.
Ion-molecule reactions and plasma parameters of positive column in oxygen glow discharge
21 p3476 N84-32036
KANEFF, S.
White Cliffs: Operating experience
18 p2874 N84-28250
KANEKO, H.
Spectroscopy in heliotron E 11 p1735 N84-21320
KANEKO, M.
Compact Claude cycle refrigerator for laboratory use
06 p0819 N84-15338
KANEKO, R. S.
Low-temperature forming of beta titanium alloys
[NASA-CR-3706] 02 p0193 N84-11253
KANEKO, S.
Magnetohydrodynamic equilibrium and stability of spheromak plasma in flux conserver
[IPPJ-642] 03 p0443 N84-12909
KANELLAKIS, P. C.
On the sequential nature of unification
[AD-A139939] 15 p2398 N84-25388
KANEMASU, E. T.
Intercepted photosynthetically active radiation estimated by spectral reflectance
[E84-10109] 12 p1829 N84-21927
Land biology 20 p3218 N84-30440
KANEMASU, H.
Constrained nonlinear least squares
[AD-A130502] 01 p0132 N84-10662
KANG, D.
New variational formulations of hybrid stress elements
21 p3420 N84-31690
KANG, S. C.
The chemical and physical changes on lubricated surfaces 22 p3602 N84-32820
KANGALOS, A. J.
The effect of component redundancy upon aircraft combat survivability
[AD-A141815] 19 p2964 N84-28784
KANGAS, J.
Observations of short period magnetic pulsations during the SBARMO-79 campaign: Data summary
[REPT-90/1982] 13 p2012 N84-23052
Quick-look tables of continuous pulsations (Pc1) and intervals of Pulsations of Diminishing Periods (IPDP) magnetic pulsation events recorded in Finland during IMS years 1976-1979: Data summary
[REPT-92/1982] 13 p2012 N84-23053
KANIA, D. R.
Single-mode fiber-optic sensor for high currents
[DE83-014163] 02 p0295 N84-11933
Diagnostics of a high current capillary discharge
[DE84-011369] 20 p3179 N84-30194
Nonthermal effects on the diagnostics of a collapsing gas shell Z-pinch
[DE84-009996] 21 p3502 N84-32199
KANNBERG, L. D.
Initial operation of the compressed air experiment at Pittsfield, Illinois
[DE83-016930] 03 p0404 N84-12643
Seasonal thermal energy storage
[DE84-013854] 23 p3791 N84-34042
KANNE, W. R., JR.
Upset weld study for joining 304L stainless steel tubes
[DE84-011507] 20 p3198 N84-30313
KANNEL, J. W.
High pressure oxygen turbopump bearing cage stability analyses
[NASA-CR-170991] 10 p1502 N84-19815
Measurements of elastohydrodynamic film thickness, wear and tempering behavior of high pressure oxygen turbopump bearings
[NASA-CR-171008] 13 p1997 N84-22960
Review of LOX Bearing and Seal Materials Tester (BSMT) radial load system
[NASA-CR-171162] 23 p3756 N84-33810
KANNGIESER, E.
Reports on cartography and geodesy. Series 2: Translations, number 41. Report on high precision gravimetry, volume 2
[ISSN-0469-4244] 19 p3043 N84-29306
KANNINEN, M. F.
A critical review of the short crack problem in fatigue
[AD-A131349] 02 p0231 N84-11516
Some thoughts on the subject of dynamic elastic-plastic analyses of rapid crack propagation and crack arrest
[AD-P003116] 16 p2469 N84-25821
KANO, R.
Synfuel modified diesel
[DE84-002189] 10 p1502 N84-19819

KANOKTANAPORN, S.
Products of photodegradation for coumarin laser dyes
[AD-A136306] 09 p1320 N84-18624
Photophysical and photochemical properties of coumarin laser dyes in amphiphilic media
[AD-A136361] 09 p1321 N84-18630
KANSA, E. J.
Atmospheric dispersion of ammonia: An ammonia fog model
[DE84-000165] 04 p0560 N84-13689
KANSY, R. J.
Etched cavity SAW (Surface Acoustic Wave) resonator elements for multipole filter applications
[AD-A131002] 02 p0288 N84-11886
KANTEMIR, I. I.
Dynamics of angular movements of a solid supporting a rotating rotor with consideration of energy dissipation
[AD-A143349] 22 p3611 N84-32881
KANTER, E. P.
Interactions of fast atomic and molecular ions with matter
[DE84-006555] 15 p2405 N84-25438
KANTNER, A.
Mathematical model of power station blocks with forced circulation steam generation
[DRIC-T-7008] 15 p2389 N84-25332
KANTNER, E.
Development of a circulating zinc-bromine battery, phase 2
[DE84-001886] 04 p0527 N84-13463
KANTOR, A. J.
Variability of atmospheric density in the middle atmosphere
[AD-A131985] 03 p0407 N84-12667
Wind-speed extremes in the Northern Hemisphere, 30 through 60 km
[AD-A132019] 03 p0410 N84-12682
Winds: Chapter 6, 1983 revision. Handbook of Geophysics and Space Environments
[AD-A132018] 03 p0410 N84-12683
Handbook of geophysics and space environments, Chapter 15, 1983 revision: Atmospheric temperature, density and pressure
[AD-A136846] 13 p2017 N84-23076
Handbook of geophysics and space environments. Chapter 16: Water vapor, precipitation, clouds and fog, revised
[AD-A144176] 24 p3934 N84-34901
KANTOR, G.
Performance of a new 916 MHz direct contact applicator with reduced leakage, a detailed analysis
[PB83-226621] 01 p0114 N84-10742
KANTOR, I. J.
Study on the applicability of the international ionospheric model IRI 79 for obtaining electron density profiles
[INPE-2817-PRE/372] 02 p0247 N84-11619
Behavior of the total electron content in the ionosphere in Sao Jose dos Campos during magnetic storms in 1980
[INPE-2810-PRE/368] 02 p0248 N84-11623
Plasma bubble irregularity occurrence and zonal velocities under quiet and disturbed conditions, from polarimeter observations
[INPE-3023-PRE/461] 12 p1846 N84-22036
Comparison between density profiles obtained at Cachoeira Paulista, Brazil, and deduced from IRI-79 model
[INPE-3136-PRE/527] 21 p3443 N84-31843
Introduction to atmospheric geophysics
[INPE-3169-PRE/539] 23 p3797 N84-34079
Research salaries
[INPE-2971-NTE/209] 23 p3832 N84-34307
KANTOR, M. M.
Specifics of processes of deformation and microfracture of amorphous iron-based alloys
12 p1788 N84-21662
KANTOWITZ, B. H.
Objective measure of pilot workload
[NASA-CR-173296] 08 p1205 N84-17858
A theoretical approach to measuring pilot workload
[NASA-CR-173297] 08 p1205 N84-17859
KANTROWITZ, M.
Do users ruin design intentions?
16 p2515 N84-26144
KANTZ, D.
Development of VLSI memories
[BMFT-FB-T-84-022] 16 p2560 N84-26423
KANWISCHER, H.
Development of media for dynamic latent heat storage for the low temperature range. Part 1: Thermal analysis of selected salt hydrate systems
[DFVLR-FB-84-03-PT-1] 15 p2362 N84-25170
KANYON, S. J.
The physical nature of the symbiotic stars
21 p3524 N84-32325
KAO, C.
Acta Mechanica Sinica (selected articles)
[AD-A131871] 03 p0372 N84-12422
KAO, C. M.
Many electron effects in the photoelectron spectra of condensed nitric oxide
[AD-A138130] 12 p1791 N84-21681
KAO, H. C.
Flow visualization and interpretation of visualization data for deflected thrust V/STOL nozzles
[NASA-TM-83554] 05 p0631 N84-14147
KAO, S.
Synthesis of axion systems for the three-valued predicate logic by means of the special four-valued logic
[AD-P002358] 14 p2193 N84-24149
KAPAUAN, A. A.
Pringle: A parallel processor to emulate CHiP (configurable highly parallel) computers
[AD-A129152] 01 p0119 N84-10770
The Pringle parallel computer
[AD-A140852] 17 p2750 N84-27452
KAPER, H. G.
Full- and half-range theory of indefinite Sturm-Liouville problems
[DE84-001672] 05 p0741 N84-14869
KAPETANAKOS, C. A.
The effect of field index fluctuations on the dynamics of a high current electron ring in a modified betatron accelerator
[AD-A133089] 05 p0745 N84-14891
Dynamics of a high current electron ring in a conventional betatron accelerator
[AD-A133291] 06 p0914 N84-15945
External injection into a high current modified betatron accelerator
[AD-A134694] 08 p1229 N84-18030
High current induction accelerators
[AD-A142303] 19 p3102 N84-29703
KAPILA, A.
Stability of plane near-equidiffusional flames without invoking the constant-density approximation
[AD-P002972] 14 p2201 N84-24208
KAPINOS, V. M.
Coefficient of surface friction with turbulent flow in boundary layer 21 p3481 N84-32064
KAPLAN, A.
Large enhancement of the Sagnac effect based on nonlinearly induced nonreciprocity
[AD-A137080] 10 p1579 N84-20344
KAPLAN, A. E.
Cyclotron bistability of electrons in vacuum and semiconductors 14 p2236 N84-24418
Light-induced nonreciprocity: Directional optical bistability; spectroscopy of induced anisotropy; nonlinear Sagnac effect 14 p2241 N84-24452
KAPLAN, A. M.
Reactivity of TNT and TNA-microbial reduction products with soil components
[AD-A135512] 08 p1182 N84-17698
Decomposition of four ammonium nitrate propellants
[AD-A136916] 10 p1470 N84-19601
Microbial evaluation of some adhesive formulations and adhesive bases
[AD-A141659] 19 p2999 N84-29005
KAPLAN, C. R.
Software for a computer controlled laser Doppler velocimeter
[AD-A143786] 23 p3815 N84-34193
KAPLAN, D.
Metallurgical aspects and mechanical properties of weld metal in automatic submerged arc welding
[BLL-RISLEY-TR-4875-(9091.9F)]
09 p1324 N84-18650
KAPLAN, D. L.
Reactivity of TNT and TNA-microbial reduction products with soil components
[AD-A135512] 08 p1182 N84-17698
Decomposition of four ammonium nitrate propellants
[AD-A136916] 10 p1470 N84-19601
Chaos in optical bistability 14 p2232 N84-24388
Fluctuations in optical bistability: Experiment with shot noise 14 p2232 N84-24392
Microbial evaluation of some adhesive formulations and adhesive bases
[AD-A141659] 19 p2999 N84-29005
KAPLAN, D. P.
Deregulating the airlines: An economic analysis
[PB83-250019] 04 p0617 N84-14070
KAPLAN, F. B.
Development of theoretical models and analyses of the micro-physics of cloud and precipitation systems
[AD-A133557] 06 p0882 N84-15735
KAPLAN, H. L.
A research study of the assessment of escape impairment by irritant combustion gases in postcrash aircraft fires
[FAA-CT-84-16] 22 p3533 N84-32366
KAPLAN, J. D.
Reverse engineering of the multiple launch rocket system. Human factors, manpower, personnel, and training in the weapons system acquisition process
[AD-A142849] 21 p3349 N84-31247
KAPLAN, L. D.
Outlook for improved numerical weather prediction using satellite data with a special emphasis on the hydrological variables
[AD-A141233] 18 p2890 N84-28344
KAPLAN, M.
Measuring energy use in urban travel using a sketch planning model
[DE83-015375] 05 p0761 N84-14992
KAPLAN, R. B.
Platinum group coatings for refractory metals
[AD-A143792] 23 p3718 N84-33568
High temperature oxidation resistant coatings
[AD-A143633] 23 p3724 N84-33597
KAPLAN, S. N.
Large area non-crystalline semiconductor detectors
06 p0912 N84-15925
KAPLINSKIY, A. L.
Study of size factor effect on low-cycle fatigue of aluminum alloys 23 p3706 N84-33492
KAPPEL, F.
Spline approximation for retarded systems and the Ricatti equation
[AD-A142963] 21 p3473 N84-32010
KAPSHTAL, G. G.
Electrical characteristics of metal-dielectric-semiconductor systems produced on epitaxial silicon structures with various dielectrics
21 p3479 N84-32052
KAPUSTIN, K. G.
Functional status of operators and its systemic and technical determinants 18 p2895 N84-28369
KAPUSTIN, S. A.
Role of feedback in regulation of ideomotor movements 18 p2898 N84-28386
KARADIMITROPOULOS, I. A.
INTEL 432/670 Ada benchmark performance evaluation in the Multiprocessor/Multiprocess environment
[AD-A132774] 05 p0719 N84-14715
KARAGUELLE, H.
Input-output characterization of an ultrasonic testing system by digital signal analysis
[NASA-CR-3756] 06 p0854 N84-15565
KARANDIKAR, R. L.
The nonlinear filtering problem for the unbounded case
[AD-A136501] 09 p1376 N84-18985
KARASALO, I.
Some signal processing methods based on covariance estimates of signal and noise
[FOA-C-30343-E1] 10 p1484 N84-19701
KARASAWA, T.
A new method of evaluating the side wall interference effect on airfoil angle of attack by suction from the side walls
[NASA-TM-77722] 24 p3852 N84-34432
KARASEV, A. V.
Procedure for wall temperature measurement in a metal vapor laser 13 p1968 N84-22777
KARASHIMA, S.
Atomic processes in hot dense plasma
[IPPJ-AM-31] 03 p0443 N84-12911
Bibliography on atomic processes in hot dense plasmas
[IPPJ-AM-29] 03 p0443 N84-12913
KARAVEYEV, F. M.
Standardization of terminology in field of ionizing radiations and their measurements
18 p2823 N84-27925
KARAWAS, G. K.
The discrete prolate spheroidal filter as a digital signal processing tool 17 p2696 N84-27174
KARBOWSKI, J. S.
Modular stellarator reactor: A Fusion power plant
[DE84-002268] 07 p1077 N84-17001
KARCHER, E. A.
An airborne color video inserter
[AD-A132183] 04 p0484 N84-13185
An airborne programmable digital to video converter
[AD-A134839] 08 p1104 N84-17181
A dual digital to video converter for avionics symbology and messages
[AD-A138383] 12 p1771 N84-21547
A dual digital to video converter and color video inserter for avionics symbology and messages
[AD-A143772] 23 p3693 N84-33408

KARDAR, M.
Phase transitions in chemisorbed systems
22 p3682 N84-33342
KARDASHV, N.
Commentary on Prognoz-9 satellite
09 p1264 N84-18253
KARDOS, J. L.
Structure and properties of polyethylene
[PB83-243931] 02 p0202 N84-11316
KAREIVA, P. M.
Estimation techniques for transport equations
[AD-A135092] 08 p1218 N84-17945
Estimation of temporally and spatially varying coefficients in models for insect dispersal
[AD-A135093] 08 p1218 N84-17946
KARIMBAYEV, T. D.
Composite materials with aluminum matrix reinforced with carbon fibers 24 p3872 N84-34537
KARIS, D.
Psychophysiological tools in engineering psychology
[AD-P003337] 18 p2911 N84-28461
KARITANI, S.
Mesoscale and severe storms (Mass) data management and analysis system 24 p3929 N84-34871
KARKER, Y. I.
Advantages of metallic fuels for rocket propulsion
21 p3348 N84-31237
KARKHANIS, V.
Interactive digital image processing for terrain data extraction, phase 4
[AD-A140197] 16 p2510 N84-26107
KARL, H.
Technical applications of solar energy. Project photovoltaic systems and project selective coatings
[BMFT-FB-T-83-299] 12 p1844 N84-22025
KARL, T. R.
Wind and wave summaries for selected U.S. Coast Guard operating areas
[AD-A130647] 01 p0108 N84-10702
KARLASHOV, A. V.
Processing the results of fatigue testing of structural materials damaged by corrosion
24 p3873 N84-34541
KARLE, J.
The structural chemistry of energetic compounds
[AD-A143955] 23 p3822 N84-34237
KARLIN, A. R.
Experience with a regular expression compiler
[AD-A135202] 08 p1209 N84-17888
KARLIN, B. E.
Model identification and parameter estimation of the power, lift, and drag of light aircraft from a single maneuver 13 p1930 N84-22552
KARLIN, R.
Paleomagnetism, rock magnetism and diagenesis in hemipelagic sediments from the northeast Pacific Ocean and the Gulf of California 22 p3621 N84-32944
KARLSSON, B.
The stability of atropine, stored in the Swedish autoinjector
[FOA-C-40191-C3] 23 p3805 N84-34127
KARLSSON, E.
Risk models for risk distance prediction during release of toxic industrial chemicals caused by acts of war
[FOA-C-40185-C2(H2)] 08 p1183 N84-17707
DARK: A computer based system for simulating the potential hazards from releases of pressurized gases
[FOA-C-40183-C2] 10 p1565 N84-20255
KARLSSON, E. A.
Development and fabrication of a high current, fast recovery power diode
[NASA-CR-168196] 04 p0524 N84-13443
KARLSSON, H.
The strategic balance, the MX-system and deficiencies in the SALT Treaty
[FOA-C-10207-M3] 07 p0962 N84-16235
KARLSSON, N.
Risk models for risk distance prediction during release of toxic industrial chemicals caused by acts of war
[FOA-C-40185-C2(H2)] 08 p1183 N84-17707
DARK: A computer based system for simulating the potential hazards from releases of pressurized gases
[FOA-C-40183-C2] 10 p1565 N84-20255
KARLSSON, T.
A literature survey of the electrical resistance and thermal properties of modern composites and of the fibers and matrices that constitute them
[FOA-C-20505-D6(F9)] 07 p0968 N84-16274
KARMALI, M. S.
Investigation of image enhancement techniques for the development of a self-contained airborne radar navigation system
[NASA-CR-166530] 16 p2445 N84-25684
VTOL shipboard letdown guidance system analysis
[NASA-CR-166519] 16 p2451 N84-25716
KARMANN, R.
General Integrated Multipurpose Inflight Calibration System (GIMICS) 24 p3851 N84-34420
KARMED, D.
A study of the fundamental problems of combustion in the combustion chambers of turbojets using a tubular reactor 15 p2293 N84-24759
KARNER, F. R.
Volcanic forms in the Kane Patera region, Io
13 p2073 N84-23437
KARNESKY, R. A.
Fuel Systems for compact fast space reactors
[DE84-006545] 14 p2223 N84-24343
KARNOFSKY, K. F.
Multisensor speech input
[AD-A140894] 17 p2654 N84-26974
KARO, A. M.
Simulation of shock-induced energy flux in molecular solids
[DE84-001157] 04 p0613 N84-14047
De-excitation and equipartition in H2-surface collisions
[DE84-003008] 08 p1229 N84-18031
Simulation of shock-induced energy flux in molecular solids, revision 1
[DE84-008331] 15 p2304 N84-24827
KAROW, K.
Advanced edit system
[AD-A134952] 08 p1213 N84-17913
KARPENKO, A. G.
Excitation of quasi-static magnetic fields in axial structures 20 p3287 N84-30873
KARPENKO, A. V.
Permeability of sodium sulfacyl through membrane structures differing in degree of organization with exposure to low-frequency magnetic field
07 p1043 N84-16763
KARPENKO, I. V.
Possibilities of studying inelastic properties and characteristics of medium inhomogeneity using spectra of scattered waves 17 p2706 N84-27230
KARPENKO, S. G.
Possibilities of studying inelastic properties and characteristics of medium inhomogeneity using spectra of scattered waves 17 p2706 N84-27230
KARPINOS, D.
Reinforcing materials based on magnesium oxide
12 p1783 N84-21637
KARPLUS, H. B.
Application of NDE methods to green ceramics: Initial results
[DE84-006411] 14 p2130 N84-23769
Application of NDE methods to green ceramics: Initial results
[DE84-010571] 18 p2819 N84-27898
Void-particulate director
[DE84-011300] 20 p3190 N84-30262
KARPLUS, W. J.
Dataflow computing approach in high-speed digital simulation
[NASA-CR-173552] 15 p2389 N84-25336
KARPOV, V. N.
Some aspects of dosimetry in studies of biological effects of nonionizing electromagnetic radiation
15 p2375 N84-25248
KARPPI, R.
Note on standardization of implant tests
[VTT-RR-189] 02 p0198 N84-11288
Determination of weld hydrogen content
[VTT-240] 15 p2296 N84-24777
KARPUK, M.
Proceedings of the Solar Thermal-Photochemical Conversion Workshop
[DE84-000089] 22 p3619 N84-32929
KARPUSHKO, F. V.
Vacuum-deposited thin-film interferometers as bistable devices operating continuously at room temperature
14 p2241 N84-24453
KARR, A. F.
Estimation and reconstruction for stochastic processes and deterministic functions
[AD-A136571] 09 p1382 N84-19024
KARR, G. R.
Research reports: 1983 NASA/ASEE Summer Faculty Fellowship Program
[NASA-CR-170942] 06 p0927 N84-16022
KARR, P. H.
RIM as the data base management system for a material properties data base 12 p1891 N84-22312
KARRAKER, D. G.
The oxidation of hydrazine by nitric acid
[DE84-015063] 23 p3715 N84-33547
KARRAS, T. W.
Copper vapor laser scale demonstration
[AD-A133327] 06 p0850 N84-15543
KARTASHOV, E. M.
Dynamic stress in elastic areas developing upon interaction of intensive heat fluxes with solid bodies
24 p3873 N84-34545
KARTELEVA, M. I.
The controlling reactions during interaction between silicon and carbon
[BLL-M-35673-(5828.4)] 22 p3545 N84-32444
KARTSEV, V. P.
The possibilities of application of superconductors in electronics
[AD-A136488] 09 p1307 N84-18543
KARTY, J. L.
High latitude field aligned currents
05 p0702 N84-14605
KARUBE, K.
Steady state performance of single-phase reaction motor 21 p3476 N84-32035
KARWEIT, M.
Analyzing temperature data from XBT grid surveys
[AD-A140685] 17 p2737 N84-27388
KARYUKIN, G. A.
Comparison of qualitative and quantitative measurements of temperature turbulence with monostatic sodar 18 p2865 N84-28188
KASAI, R.
Degradation of thermal shield materials in the space radiation environment 10 p1448 N84-19448
KASAI, S.
Atomic processes for plasma diagnostics in Tokamaks
11 p1734 N84-21311
KASAMI, T.
On the probability of undetected error for the maximum distance separable codes
[NASA-CR-170604] 02 p0279 N84-11829
Permanence analysis of a concatenated coding scheme for error control
[NASA-CR-175345] 07 p0991 N84-16422
KASATKIN, B. S.
Study of specifics of formation of stress and strain in making circular welded joints in aluminum alloy envelopes 24 p3876 N84-34560
KASATOV, A. P.
Psychophysics of proprioceptive sensibility
21 p3456 N84-31933
KASCAK, A. F.
Effects of different rub models on simulated rotor dynamics
[NASA-TP-2220] 08 p1166 N84-17590
KASCAK, T. J.
Microwave monolithic integrated circuit development for future spaceborne phased array antennas
[NASA-TM-83518] 04 p0517 N84-13399
KASEMSET, D.
InGaPAs by metalorganic chemical vapor deposition
[AD-A135281] 08 p1234 N84-18069
KASHCHEY, V. A.
Use of fiber light guides for evaluation of precision characteristics of pulsed laser range finders
17 p2637 N84-26970
KASHIHARA, H.
A case study of spaceborne synthetic aperture radar system design for the Earth Resources Satellite
23 p3782 N84-33987
Some test results of synthetic aperture radar transmitter and receiver 23 p3783 N84-33988
KASHIN, S. V.
On the problem of cylindrical array radiation through inhomogeneous dielectric layer
17 p2631 N84-26831
KASHINTSEV, G. L.
Peridotites of the Khizen Fault (Southeastern Pacific Ocean) 18 p2857 N84-28145
KASHKIN, K. P.
Modelling of multi-signal immobilized immunogens
17 p2741 N84-27401
KASHUBA, V. A.
Health education of population in conection with widespread use of laser radiation
17 p2742 N84-27407
KASHYAP, R. L.
An approach to rotation invariant texture classification and some experimental results
[AD-A134197] 07 p1061 N84-16881
Characterization and estimation of 2-dimensional ARMA (Autoregressive Moving Average) models
[AD-A139120] 14 p2211 N84-24279
KASICH-PILIPENKO, I. Y.
Use of concentrated solar energy to form slip coatings
24 p3874 N84-34552
KASIMOV, A. M.
Transition from laminar to turbulent flow under action of acoustic vibrations 21 p3480 N84-32056
KASIRAJ, P.
Shock compaction of molybdenum powder
[NASA-CR-173154] 08 p1133 N84-17369

Shock consolidation of powders: Theory and experiment
[DE84-007273] 13 p1961 N84-22741
Orbiting dynamic compression laboratory
[NASA-CR-173704] 18 p2798 N84-27755
Mechanical properties of a shock consolidated steel powder
[DE84-003573] 20 p3158 N84-30058

KASISCHKE, E. S.
Modeling of SAR signatures of shallow water ocean topography 17 p2716 N84-27302
Analysis of SEASAT SAR imagery collected during the JASIN experiment
[AD-A140584] 17 p2721 N84-27320
The use of satellite and aircraft SAR to detect and chart hazards to navigation
[AD-A141658] 19 p3041 N84-29296
Analysis of bistatic SAR signatures 23 p3777 N84-33947

KASKIEWICZ, P.
Excess science accommodation capabilities and excess performance capabilities assessment for Mars Geoscience and Climatology Orbiter: Extended study
[NASA-CR-173765] 19 p2978 N84-28882

KASMAN, M. L.
Water resources data for Montana, water year 1982. Volume 1: Hudson Bay Basin, Missouri River Basin
[PB84-117506] 09 p1339 N84-18749
Water resources data for Montana, water year 1982. Volume 2: Columbia River Basin
[PB84-118561] 09 p1340 N84-18752

KASPAR, R.
An investigation into thermomechanical treatment by rolling of High Strength Low Alloy (HSLA) steels for improving their mechanical and technological properties
[BMFT-FB-T-83-083] 02 p0197 N84-11284

KASPER, J.
Gas-turbine demonstration of pyrolysis-derived fuels
[DE83-013610] 01 p0053 N84-10342

KASPER, R.
Reduced electric reactance for electric arc furnace
[BMFT-FB-T-83-303] 15 p2326 N84-24976

KASPER, R. G.
Mathematical models of nonlinear galvanic polarization
[AD-A132403] 04 p0589 N84-13895

KASPEROVICH, A. N.
System for recording and input to computer of one-dimensional images of dim objects and high-speed processes 24 p3941 N84-34951

KASPEROVICH, E. B.
Distribution of unit pressures in universal spindle joint 08 p1165 N84-17588

KASPRZYK, M.
Ceramic component manufacturing technology development
[PB84-215276] 22 p3561 N84-32550

KASRAIE, K.
State space method for optimal design of shock absorbers with floating boundaries 13 p1998 N84-22966

KASS, R.
Trigger systems which could operate at a luminosity of 10/sup 33 cm(-2) to sec/sup -1 06 p0911 N84-15918

KASS, R. A.
Battery Computer System (BCS) human factors field evaluation
[AD-A143425] 22 p3638 N84-33062

KASSEL, P. C., JR.
Interplanetary dust experiment (A0201) 15 p2277 N84-24671

KASSEN, D.
Holographic test procedures for the evaluation of complicated material composites (tires)
[BMFT-FB-T-84-096] 21 p3407 N84-31612

KASSIES, A.
Integrating multigrid relaxation into a robust fast-solver for transonic potential flows around lifting airfoils
[NLR-MP-83021-U] 17 p2601 N84-26673

KASSNER, M. E.
The yield stress and strain-rate sensitivity of nickel over a wide temperature range
[DE83-016913] 02 p0197 N84-11279
Yield stress of type 21-6-9 stainless steel over a wide range of strain rate (10(-5) to 10-4 s(-1)) and temperature
[DE83-017159] 06 p0807 N84-15259
The yield stress of type 21-6-9 stainless steel over a wide range of strain rate (10(-5) to 10(4) s(-1)) and temperature
[DE84-000914] 15 p2296 N84-24793

KASSNER, T. F.
Evaluation of stainless steel pipe cracking: Causes and fixes
[DE84-003459] 09 p1285 N84-18391

KASSNER, T. R.
Effect of sulfuric acid, oxygen, and hydrogen in high-temperature water on stress corrosion cracking of sensitized Type 304 stainless steel
[DE84-007276] 15 p2298 N84-24795

KASTEN, F.
The spatial and temporal distribution of diffuse and direct solar radiation in the Federal Republic of Germany
[BMFT-FB-T-84-125] 23 p3802 N84-34110

KASTMANN, R.
Further development in electron beam lithography
[BMFT-FB-T-83-099] 02 p0216 N84-11415

KASTNER, C. J.
In-flight absolute radiometric calibration of the thematic mapper
[E84-10044] 04 p0552 N84-13637
In-flight absolute radiometric calibration of the thematic mapper
[E84-10064] 06 p0865 N84-15633
In-flight absolute radiometric calibration of the Thematic Mapper 13 p2004 N84-23002
In-flight absolute radiometric calibration of the Thematic Mapper 20 p3208 N84-30383

KASTNER, M. A.
Electronic properties of amorphous silicon dioxide 22 p3663 N84-33351

KASTNING, E. H., JR.
Geomorphology and hydrogeology of the Edwards Plateau karst, central Texas 23 p3796 N84-34071

KASTOVICH, J. C.
High-efficiency dual-stroke compressor for heat pumps
[DE84-005813] 11 p1665 N84-20865

KASUBA, R.
Dynamics of early planetary gear trains
[NASA-CR-3793] 16 p2498 N84-26027

KASYMOVA, A. G.
Ionospheric effect of partial solar eclipse of 31 July 1981 17 p2704 N84-27224

KASZA, K. E.
Development of enhanced heat transfer/transport/storage slurries for thermal-system improvement
[DE83-009688] 01 p0081 N84-10525
Thermal laminarization of a stratified pipe flow
[DE84-006407] 20 p3185 N84-30236
Thermal oscillations downstream of an elbow in stratified pipe flow
[DE84-006550] 21 p3401 N84-31579

KASZETA, W. J.
Qualification testing of solar photovoltaic powered refrigerator freezers for medical use in remote geographic locations
[NASA-CR-168181] 15 p2361 N84-25162

KATAI, O.
Axiomatic characterization and comparative analysis of preference on desirability and possibility
[AD-P002329] 14 p2189 N84-24120

KATEHI, P. B.
Criteria for nearly omnidirectional radiation patterns for printed antennas
[AD-A143662] 23 p3731 N84-33646
On the modeling of electromagnetically coupled microstrip antennas: The printed strip dipole
[AD-A143927] 23 p3731 N84-33651

KATEN, P. C.
Wake studies at the flowind vertical axis wind turbine generator site
[DE84-014837] 23 p3691 N84-33392

KATES, R.
Pharmacologic counter measures minimizing post-space flight orthostatic intolerance
[NASA-CR-173861] 21 p3457 N84-31936

KATGERMAN, L.
Rapid solidification processing of Al-Cu-Li-Mg alloys
[VTH-LR-380] 10 p1464 N84-19560
Rapid solidification research on aluminum alloys at Delft University of Technology 15 p2295 N84-24771

KATH, U.
A reverberation room round robin on the determination of absorption coefficients
[NRC/CNR-TT-2079] 12 p1898 N84-22364

KATHREN, R. L.
Evaluation of a draft standard on performance specifications for health physics instrumentation
[DE83-016169] 02 p0266 N84-11749
Evaluation of a draft standard on performance specifications for health physics instrumentation
[DE83-016186] 02 p0266 N84-11750

KATIBNIKOV, M. A.
Nonlinear transmission of laser radiation by ZnTe monocrystals at helium temperatures 17 p2636 N84-26863

KATKOV, V. Y.
Normal human coronary circulation during postural tests and decompression of lower half of body 02 p0259 N84-11699
Respiratory tract closing volume and structure of total lung capacity during seven-day hypokinesia in head-down position 07 p1045 N84-16778
Nomogram for demonstrating change in central venous and pulmonary artery pressure during decompression of different parts of the body 20 p3255 N84-30660
Simulation of physiological effects of negative pressure on man 20 p3255 N84-30662

KATNANI, A. D.
Microscopic study of semiconductor heterojunctions 05 p0757 N84-14962

KATO, K.
Ray-tracing analysis of electron-cyclotron-resonance heating in straight stellarators
[DE83-013854] 01 p0149 N84-10982
Transactions of the Japan Society for Aeronautical and Space Sciences, vol. 26, no. 73, November 1983
[ISSN-0549-3811] 07 p0984 N84-16374
A new procedure of objective target cloud selection for the GMS cloud wind estimation system and the accuracy of the resultant wind vectors 24 p3921 N84-34819

KATO, K. G.
High power, very broadband microwave radiation from the interaction of a relativistic electron beam with plasmas in the low magnetic field regime, with application to the type 3 solar burst phenomenon 05 p0665 N84-14371

KATO, M.
A comparison of moisture and temperature fields derived from meteorological satellite vertical sounding (NOAA-TOVS) data with Rawinsonde data, part 2 09 p1347 N84-18798

KATO, S.
Performance characteristics of VAD single mode fibers in mass production basis 11 p1725 N84-21254
Outline of the Mu radar 17 p2691 N84-27140
A transceiver module of the Mu radar 17 p2692 N84-27147

KATO, T.
Atomic processes in hot dense plasma
[IPPJ-AM-31] 03 p0443 N84-12911
Cross sections for charge transfers of highly ionized ions in hydrogen atoms
[IPPJ-AM-30] 03 p0443 N84-12912
Bibliography on atomic processes in hot dense plasmas
[IPPJ-AM-29] 03 p0443 N84-12913
Electron capture and loss cross sections for collisions between heavy ions and hydrogen molecules, revised
[IPPJ-AM-28] 03 p0444 N84-12914
Collisional-radiative model for helium-like ions: Application to intermediate-density plasmas
[IPPJ-647] 06 p0919 N84-15976
Enhancement of the excitation and deexcitation rate coefficient of ions in dense plasmas: The role of autoionizing states
[IPPJ-661] 11 p1733 N84-21302
Evaluation of excitation cross sections by plasma spectroscopy 11 p1735 N84-21315

KATO, Y.
Diagnostics and simulation in G-XII implosion experiments 11 p1735 N84-21316

KATOW, M. S.
Deformable subreflector computed by geometric optics 04 p0519 N84-13407

KATOW, S.
Potential surface improvements by bump removal for 64-m antenna 22 p3573 N84-32627

KATS, L. I.
Impact ionization in semiconductors by microwave field in the presence of an arbitrarily oriented constant magnetic field 18 p2825 N84-27932

KATS, L. M.
Improvement of heat treatment of tubes of steel 15Kh5M
[BLL-M-35545-(5828.4)] 17 p2621 N84-26774

KATSAGGELOS, A. K.
An iterative method for restoring noisy blurred images
[AD-A142201] 19 p3016 N84-29122

KATSANIS, T.
Programs for calculating quasi-three-dimensional flow in a turbomachine blade row
[NASA-TM-83588] 08 p1098 N84-17138
Comparison between measured turbine stage performance and the predicted performance using quasi-3D flow and boundary layer analyses
[NASA-TM-83640] 13 p1932 N84-22564

KATSAROS, K. B.
Observing atmospheric water in storms with the Nimbus 7 scanning multichannel microwave radiometer 17 p2716 N84-27291
Studies of midaltitude cyclone structure with SEASAT scanning multichannel microwave radiometer 24 p3930 N84-34877

KATSEV, I. L.
Some characteristics of radiation field in medium with fluctuating optical parameters 17 p2699 N84-27192
KATSOULEAS, T.
Prospects of the surfatron laser plasma accelerator [DE84-005463] 11 p1738 N84-21336
KATSUBE, N.
Mechanical response of fluid-filled poroelastic solids 03 p0387 N84-12525
KATSUKI, A.
Study on deep-hole boring by BTA system solid boring tool: Burnishing effect and guiding action of tool head 07 p0984 N84-16372
KATSUKI, S.
VISSR observation of the solar eclipse in rapid-interval limited scan mode 09 p1347 N84-18802
On the infra-red brightness level increase caused by the sun light during the eclipse period 09 p1347 N84-18804
KATSURA, S.
The design of an English word-processor for scientific and technical use in which superscripts, subscripts and Greek characters are operated in one-touch, 2 23 p3741 N84-33710
KATSUTA, H.
Hydrogen trapping by yttrium in low-temperature lithium [DE83-012721] 02 p0194 N84-11263
KATTAMIS, T. Z.
Bulk undercooling 24 p3881 N84-34591
KATUNTSEV, V. P.
Demonstration of gas bubbles in canine pulmonary artery and aorta by means of ultrasonic echography with intravenous air infusion 02 p0261 N84-11708
Reliability and efficiency of Kubicek rheographic method for monitoring cardiac output and stroke volume 20 p3253 N84-30844
Ultrasonography of canine soft tissues during decompression 20 p3254 N84-30653
KATYA, G. P.
Scanning photoelectric devices of search and tracking [AD-A132566] 17 p2671 N84-27027
KATYUKHIN, L. N.
Dynamics of red blood cell changes in rats during acute immobilization 20 p3254 N84-30651
KATZ, B.
The growth, propagation and decay of global scale Rossby waves during FGGE 12 p1854 N84-22080
KATZ, I.
Probe measurement of DC electric fields 08 p1116 N84-17255
NASCAP simulations of spacecraft charging of the SCATHA satellite 08 p1117 N84-17268
Mechanisms that limit potentials on ionospheric satellites [AD-P002118] 16 p2524 N84-26204
Polar code development [AD-P002122] 16 p2524 N84-26208
KATZ, I. N.
Development and application of the p-version of the finite element method [AD-A137059] 10 p1571 N84-20294
KATZ, J.
Detectors for optical communications: A review 04 p0518 N84-13404
KATZ, J. J.
Energy transfer in real and artificial photosynthetic systems [DE84-007278] 15 p2378 N84-25275
KATZ, M.
Quotient algebras for logics of imprecision [AD-P002330] 14 p2189 N84-24121
Towards a formal multi-valued utility theory [AD-P002356] 14 p2193 N84-24147
KATZ, M. G.
Method for the preparation of thin-skinned asymmetric reverse osmosis membranes and products thereof [NASA-CASE-ARC-11359-1] 18 p2894 N84-28361
KATZ, R. N.
Ceramics as substitutes for scarce metals 23 p3704 N84-33479
KATZ, R. S.
Fiber optics technology working group report IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study. Part 1: Executive summary [AD-A137333] 10 p1504 N84-19831
KATZ, T. J.
Polymerization of functionalized acetylenes [AD-A137120] 10 p1465 N84-19570
The mechanism of Ziegler-Natta polymerization of acetylene: A nutation NMR study [AD-A137089] 10 p1468 N84-19588
Polymertzations of acetylenes and cyclic olefins induced by metal-carbynes [AD-A137090] 10 p1468 N84-19589
KATZENBEISSER, R. H.
Assessment of data handling configurations for onboard operating system definition (phase 1) [ESA-CR(P)-1787] 09 p1273 N84-18314
The ERS-1 ground segment 23 p3783 N84-33994
KATZFEY, J. J.
On the role of the baroclinic structure in extratropical cyclone development: A case study 11 p1684 N84-20987
KAU, W. S.
Three-dimensional model for wind flow and pollutant transport-diffusion over complex terrain 02 p0243 N84-11591
KAUFFMAN, C. W.
Structure and characteristics of heterogeneous detonation [AD-A134492] 07 p1002 N84-16497
KAUFFMAN, R.
Experiments to study the feasibility of making an X-ray laser at the Novette laser facility [DE83-015615] 03 p0380 N84-12476
Soft X-ray laser experiments at Norvette Laser Facility [DE84-012594] 21 p3410 N84-31627
KAUFFMAN, R. E.
Method for the particle size independent spectrometric determination of metal particles in lubricating oils and hydraulic fluids [AD-D011121] 22 p3545 N84-32445
KAUFFMAN, R. L.
X-ray streak crystal spectrography [DE83-015618] 02 p0225 N84-11473
Time-resolved spectral measurements above 80 A [DE83-015616] 03 p0446 N84-12933
Line intensities for diagnosing laser-produced plasmas [DE84-009857] 19 p3106 N84-29738
Diagnostics for an XUV/soft X-ray laser [DE84-012593] 21 p3410 N84-31628
KAUFMAN, A.
Develop and test fuel cell powered on-site integrated total energy systems. Phase 3: Full-scale power plant development [NASA-CR-168294] 04 p0557 N84-13672
Develop and test fuel cell powered on-site integrated total energy system [NASA-CR-168239] 04 p0557 N84-13673
A simplified method for elastic-plastic-creep structural analysis [NASA-TM-83509] 05 p0692 N84-14542
Engine cyclic durability by analysis and material testing [NASA-TM-83577] 09 p1330 N84-18683
Development of a simplified procedure for cyclic structural analysis [NASA-TP-2243] 11 p1667 N84-20878
Develop and test fuel cell powered on-site integrated total energy systems [NASA-CR-174714] 17 p2723 N84-27329
KAUFMAN, A. N.
Canonical derivation of the Vlasov-Coulomb noncanonical poisson structure [DE84-002909] 07 p1064 N84-16900
KAUFMAN, F.
Chemical reactions, radiative and energy transfer processes of important atmospheric species [AD-A143264] 22 p3653 N84-33156
KAUFMAN, H. N.
Flow between rotating disks. Part 1: Basic flow 15 p2315 N84-24890
Flow between rotating disks. Part 2: Stability 15 p2315 N84-24891
KAUFMAN, J.
Delco performance management system flight test evaluation 17 p2587 N84-26579
KAUFMAN, J. H.
Charge storage in doped poly(thiophene) [AD-A137085] 10 p1455 N84-19506
KAUFMAN, J. J.
Quantum chemical investigations of the mechanism of cationic polymerization and theoretical prediction of crystal densities and decomposition pathways of energetic molecules [AD-A137271] 10 p1465 N84-19571
KAUFMAN, J. S.
Auxiliary heat-exchanger flow-distribution test [DE83-012698] 01 p0082 N84-10535
KAUFMAN, K. C.
An inverse laminar boundary layer problem with assigned wall shear: The mechul function revisited [AD-A142326] 19 p3025 N84-29182
KAUFMAN, L.
Perception of higher derivatives of visual motion [AD-A133908] 06 p0888 N84-15773
Maximum likelihood reconstruction in emission tomography with time-of-flight information: A limited study [AD-A135061] 08 p1217 N84-17944
Computer-based methods for thermodynamic analysis of materials processing [AD-A136085] 09 p1397 N84-19123
Neuromagnetic investigation of workload and attention [AD-A136172] 10 p1548 N84-20147
Neuromagnetic investigation of workload and attention [AD-A140946] 18 p2900 N84-28394
KAUFMAN, L. G., II
Mach 0.6 to 3.0 flows over rectangular cavities [AD-A134579] 06 p0782 N84-15121
Mach 0.6 to 3.0 flows over rectangular cavities [AD-A134579] 07 p0948 N84-16153
KAUFMAN, M.
Phase transitions in chemisorbed systems 22 p3682 N84-33342
KAUFMAN, M. J.
Rapid solidification and undercooling of aluminum germanium alloys: Characterization and control of microstructure [DE84-012395] 21 p3367 N84-31361
KAUFMAN, P. B.
Gravitropic responses in the grass pulvinus: Model system for asymmetric growth 02 p0263 N84-11728
Protein changes in leaf-sheath pulvini of barley (hordeum) induced by gravistimulation 09 p1352 N84-18832
KAUFMAN, R. E.
KINSYN and micro KINSYN: User-friendly computer systems for linkage design 15 p2312 N84-24873
KAUFMAN, S. K.
Determination of strong ground motion in complex structures using dynamic raytracing [AD-A138559] 14 p2176 N84-24036
KAUFMAN, S. L.
High-sensitivity laser spectroscopy with atoms from a cooled helium jet [DE84-000614] 04 p0540 N84-13554
KAUFMAN, Y.
Atmospheric effects on remote sensing of the Earth's surface 12 p1832 N84-21943
KAUFMANN, H.
Remote sensing for geology 08 p1177 N84-17668
Spectral significance of Modular Optoelectronic Multispectral Scanner (MOMS) versus LANDSAT data and future aspects: Preliminary results 23 p3765 N84-33864
The applicability of improved remote sensing data for lithological and structural mapping 23 p3770 N84-33889
KAUFMANN, P.
The simplest solar microbursts flux and circular polarization at 22 GHz [INPE-2970-PRE/436] 07 p1092 N84-17104
Brazil national report on radio astronomy (1981 - 1984) [INPE-3052-PRE/473] 16 p2573 N84-26516
Timing analysis of hard X-ray emission and 22 GHz flux and polarization in a solar burst [INPE-3103-PRE/502] 16 p2581 N84-26551
A new class of solar burst with MM-wave emission but only at the highest frequency (90 GHz) [NASA-TM-87369] 24 p3992 N84-35264
KAUKLER, W. F.
Separation processes during binary monotectic alloy production [NASA-TM-82579] 15 p2295 N84-24773
Determination of the succinonitrile-benzene and succinonitrile-cyclohexanol phase diagrams by thermal and UV spectroscopic analysis [NASA-TM-82581] 16 p2462 N84-25778
KAUL, A.
Durability and failure analyses of a silane treated Alpha-Al2O3/Polyethylene joint in wet environment [AD-A136089] 09 p1333 N84-18705
KAUL, R.
Path discrepancies between great circle and rhumb line [NASA-TM-85522] 08 p1102 N84-17168
A micro-computer based system to compute magnetic variation [NASA-CR-173376] 11 p1604 N84-20506
KAUL, R. N.
Duality in inexact fractional programming with set-inclusive constraints [DE84-023584] 22 p3642 N84-33092
KAUN, T. D.
Solubility of the NiO fuel-cell cathode in Li2CO3 melts as determined by cyclic voltammetry [DE83-014311] 04 p0530 N84-13485
Advanced fuel-cell development [DE84-002685] 05 p0676 N84-14445
Molten carbonate fuel cell cathode development [DE84-012101] 21 p3395 N84-31544
KAUP, D. J.
Advanced studies of integrable systems [AD-A144122] 24 p3959 N84-35069

KAUPP, V. H.
Digital color space transformations
23 p3779 N84-33960
KAUR, S.
Duality in inexact fractional programming with set-inclusive constraints
[DE84-023584] 22 p3642 N84-33092
KAUSHIK, S.
Study of large-scale mixing in developing wakes behind streamlined bodies
[NASA-CR-173478] 12 p1766 N84-21517
KAUTS, Y. V.
Hardening alloy surfaces by laser irradiation
24 p3869 N84-34518
KAUTZ, H. E.
Ultrasonic velocity measurement using phase-slope cross-correlation methods
[NASA-TM-83794] 24 p3911 N84-34769
KAUTZ, W. H.
Development and analysis of the Software Implemented Fault-Tolerance (SIFT) computer
[NASA-CR-172146] 09 p1371 N84-16953
KAVALIS, A. E.
Effect of shroud geometry on the effectiveness of a short mixing stack gas eductor model
[AD-A132173] 18 p2836 N84-28004
KAVANAGH, P.
Aerodynamics of advanced axial-flow turbomachinery
[AD-A131360] 01 p0012 N84-10073
KAVAYA, M. J.
Spectrophone stabilized laser with line center offset frequency control
[NASA-CASE-NPO-15516-1] 13 p1994 N84-22943
Aerosol backscatter lidar calibration and data interpretation
[NASA-CR-173738] 18 p2845 N84-28067
KAVI, K. M.
A unified data flow model for fault tolerant computers
[NASA-CR-173479] 12 p1877 N84-22230
KAVUNENKO, A. F.
Study of the interaction of organomagnesium compounds with the salts of heavy metals and the use of organomagnesium compounds and their complexes as initiators of polymerization
[BLL-M-28720-(5828.4)] 02 p0198 N84-11292
KAW, A. K.
Shear-lag analysis of notched laminates with interlaminar debonding
[NASA-CR-3798] 14 p2119 N84-23697
KAWA, J.
Transactions of the Industrial Institute of Electronics (selected articles)
[AD-A137204] 10 p1485 N84-19711
KAWAGOE, K.
Building systems and smoke control
04 p0511 N84-13347
KAWAGUCHI, J.
Synthesis of insensitive controllers in linear quadratic control problems
[REPT-605] 06 p0900 N84-15841
KAWAHARA, W. A.
Experimental research facility for creep-rupture testing of tantalum alloy T-111
[DE84-012030] 20 p3155 N84-30036
KAWAHATA, K.
ICRF heating experiments on JIPP T-II
[IPPJ-650] 10 p1580 N84-20352
Ion Bernstein wave heating experiment on JIPPT-II-U device
[IPPJ-662] 11 p1734 N84-21305
Start-up and quasi-stationary drive of plasma current by lower hybrid wave in the JPII T-IIU Tokamak
[IPPJ-667] 15 p2409 N84-25461
Impurity origin during ICRF heating in JIPP T-IIU Tokamak
[IPPJ-682] 23 p3827 N84-34271
Visible-light imaging MHD studies of the edge plasma in the JIPP-T-IIU Tokamak
[IPPJ-683] 23 p3827 N84-34272
KAWAHATA, N.
Wind tunnel investigation of the rolling moment of a rectangular wind with some winglets on the left upper tip
[NAL-TR-788] 16 p2440 N84-25650
KAWAHIRA, H.
Field trial of composite fiber-optic overhead ground wire 11 p1720 N84-21221
KAWAI, N.
Joint timing analysis of A0535 + 26 at 1980 outburst
[DE84-001320] 07 p1094 N84-17113
KAWAIN, R. A.
TIS: An intelligent gateway computer for information and modeling networks. Overview
[DE83-017986] 04 p0616 N84-14067
KAWAKAMI, S.
Optics and quantum electronics
22 p3682 N84-33343
KAWAMOTO, T.
Buildup and sustainment of 10(13) and cm(-3) plasma by ICRF in RFC-XX
[IPPJ-653] 10 p1580 N84-20356
Plasma heating, confinement and stabilization experiments in axisymmetric mirror-cusp device
[IPPJ-690] 24 p3965 N84-35105
KAWAMURA, S.
Simulation program for central helium liquefier
[DE84-009666] 19 p3079 N84-29539
KAWAMURA, T.
Distribution of pack ice of Okhotsk Sea coast of Hokkaido observed with sea ice radar network, January-April 1983
23 p3762 N84-33846
KAWANISHI, S.
Irradiation effects on the mechanical properties of composite organic insulators
[DE83-014703] 01 p0032 N84-10202
KAWARADA, H.
Asymptotic behaviors of the solution of an elliptic equation with penalty terms
[AD-A130473] 01 p0131 N84-10858
Numerical analysis of boundary value problem of elliptic type by means penalty and the finite difference and its application to free boundary problem
[AD-A132805] 05 p0736 N84-14834
Numerical analysis of a Stefan problem
[AD-A132823] 05 p0737 N84-14838
KAWASAKI, K.
Energy levels and transition probabilities of low Z ions for electric field determination 11 p1736 N84-21325
KAWASHIMA, C.
Atmospheric correction study/atmospheric model optimization
[INPE-2969-RPE/448] 13 p2010 N84-23040
KAWASHIMA, I.
Embrittlement of steels due to galvanizing or coating with zinc paint: An investigation of embrittlement in welding or heating operations
[AERE-TR-4774] 06 p0805 N84-15244
KAWASHIMA, N.
Highlights of the electron beam experiments in space in Japan 05 p0637 N84-14191
Beam Plasma Discharge (BPD) experiments in the laboratory 05 p0638 N84-14197
KAWASUMI, Y.
ICRF heating experiments on JIPP T-II
[IPPJ-650] 10 p1580 N84-20352
Ion Bernstein wave heating experiment on JIPPT-II-U device
[IPPJ-662] 11 p1734 N84-21305
Start-up and quasi-stationary drive of plasma current by lower hybrid wave in the JPII T-IIU Tokamak
[IPPJ-667] 15 p2409 N84-25461
KAWATA, S.
Rotating and propagating LIB stabilized by self-induced magnetic field
[IPPJ-640] 03 p0444 N84-12916
KAWATA, T.
Considerations of the three-wave interactions
[IPPJ-641] 03 p0444 N84-12915
KAWIN, R. A.
TIS (Technology Information System): A focal point for technology transfer
[AD-A130798] 01 p0161 N84-11060
Downloading and post-processing of bibliographic information with the TIS (Technology Information System) intelligent gateway computer
[AD-A130800] 01 p0162 N84-11062
KAXIRAS, E.
Semiconductor surface studies
22 p3681 N84-33338
KAY, B. D.
Sol-gel transition in simple silicates, 2
[DE83-013975] 01 p0051 N84-10329
KAY, P.
Computer science and technology: Future information processing technology, 1983
[PB83-257618] 06 p0896 N84-15820
KAYBYSHEV, O. A.
Plasticity of large-grain titanium alloy type VT30 in the beta area 23 p3708 N84-33508
KAYDALOV, O. V.
Quasi-two-day variation of lower thermosphere wind velocities 20 p3224 N84-30488
KAYE, J. H.
Atomic-beam density determination from laser-induced fluorescence interval distributions
[DE84-000677] 04 p0542 N84-13571
KAYE, R. J.
A 2-MJ staged explosive generator
[DE83-013677] 01 p0072 N84-10474
KAYNES, I. W.
The initial design of active control systems for a flexible aircraft 02 p0171 N84-11125
KAYSER, L. D.
Some aerodynamic characteristics of a projectile shape with a nonaxisymmetric boattail at Mach numbers of 0.91 and 3.02
[AD-A133755] 05 p0627 N84-14125
Computational modeling of aerodynamic heating for XM797 nose cap configurations
[AD-A133684] 05 p0627 N84-14126
Boundary-layer trip effectiveness and computations of aerodynamic heating for XM797 nose-tip configurations
[AD-A128036] 07 p0947 N84-16148
Wind tunnel tests on a nonaxisymmetric projectile shape at Mach numbers 2.5 to 6.0
[AD-A135784] 09 p1253 N84-18177
Base pressure measurements on a projectile shape at Mach numbers from 0.91 to 1.20
[AD-A141341] 18 p2789 N84-27699
KAZA, K. R. V.
An improved finite-difference analysis of uncoupled vibrations of tapered cantilever beams
[NASA-TM-83495] 04 p0548 N84-13610
Flutter of swept fan blades
[NASA-TM-83547] 07 p1015 N84-16587
Improved finite-difference vibration analysis of pretwisted, tapered beams
[NASA-TM-83549] 07 p1015 N84-16588
Vibration and flutter of mistuned bladed-disk assemblies
[NASA-TM-83634] 14 p2157 N84-23923
Improved methods of vibration analysis of pretwisted, airfoil blades
[NASA-TM-83735] 20 p3200 N84-30329
KAZAKOS, D.
Optimal constrained representation and filtering of signals
[AD-A129157] 01 p0069 N84-10453
Robust prediction and interpolation for Vector stationary processes
[AD-A130973] 02 p0284 N84-11859
KAZAKOV, A. V.
Interaction of unsteady spatial boundary layer with hypersonic flow near rapidly heated portion of surface
13 p1971 N84-22794
KAZAKOV, B. V.
Light-emitting diode matrix flat screen
22 p3567 N84-32592
KAZAKOV, I. Y.
Static methods in the design of nonlinear automatic control systems
[AD-A143297] 22 p3644 N84-33101
KAZAKOVA, R. T.
Demonstration of gas bubbles in canine pulmonary artery and aorta by means of ultrasonic echography with intravenous air infusion 02 p0261 N84-11708
Ultrasonography of canine soft tissues during decompression 20 p3254 N84-30653
KAZANAS, D.
Cosmic ray antimatter and baryon symmetric cosmology
[NASA-TM-83958] 04 p0622 N84-14103
Photon-photon absorption and the uniqueness of the spectra of active galactic nuclei
[NASA-TM-86117] 21 p3526 N84-32338
KAZANETS, I. P.
Development of ferrous metallurgy described
23 p3707 N84-33499
KAZANSKIY, A. G.
Photoconductivity of alpha-Si-H in infrared range of spectrum 18 p2825 N84-27933
KAZANSKIY, V. B.
Dielectric-grating band-pass filters
21 p3379 N84-31442
KAZAR, J.
Lack of an effect of corpuscular vaccine against I phase Q-fever on persistence and reactivation of Coxiella burnetii infection in mouse and guinea pigs tissue
17 p2741 N84-27402
KAZARIAN, L. E.
Bone mineral analysis of rat vertebrae following space flight: COSMOS 1129
[AD-A133178] 07 p1042 N84-16757
Cryomicrotome applications: Techniques for the study of skeletal materials
[AD-A137010] 10 p1545 N84-20130
KAZEYKIN, V. S.
Evaluation of changes in human axial skeletal bone structures during long-term spaceflights
15 p2375 N84-25251
KAZMIERCZAK, H.
Coincident extraction of line objects from stereo image pairs
[AD-A133892] 05 p0697 N84-14576
KAZMIN, V. G.
Two types of continental breakup
18 p2863 N84-28178

KAZOVSKIY, Y. Y.
The possibilities of application of superconductors in electronics
[AD-A136488] 09 p1307 N84-18543
KAZUMATA, Y.
Energy dependence of the yields of ion-induced sputtering of monatomic solids
[IPPJ-AM-32] 07 p1076 N84-16992
KE, J. S.
On extending functional capabilities of cellular-logic devices for database management
24 p3959 N84-35067
KEAFER, L. S.
Large inflated-antenna system
08 p1112 N84-17234
KEAN, E. S.
APSE database user scenario
[AD-P003593] 21 p3341 N84-31198
KEAR, K. T.
Cardiac swimming and a traditional rehabilitation program of bike-walk-jog; a comparison of maximal oxygen consumption and strength 12 p1864 N84-22148
KEARNEY, K. J.
X-ray production in long-scale length laser-plasma interaction experiments
[DE84-002472] 07 p1076 N84-16997
KEARSLEY, E. A.
Development of methods of evaluation extensional properties of polymer solutions from measurements of shear
[AD-A140451] 16 p2472 N84-25845
KECK, R.
Automated detection of internal and surface defects in moving strip
[BMFT-FB-T-84-079] 19 p3033 N84-29239
KECKLER, C. R.
Integrated Flywheel Technology, 1983
[NASA-CP-2290] 03 p0343 N84-12228
Integrated Power/Attitude Control System (IPACS)
03 p0344 N84-12229
Advanced Control and Power System (ACAPS) technology program 03 p0345 N84-12243
Vibration isolation technology experiment
08 p1111 N84-17228
Integrated Power/Attitude Control System (IPACS) technology experiment 08 p1111 N84-17229
KEDDY, E. S.
Performance demonstration of a high-power space-reactor heat-pipe design
[DE83-012688] 01 p0145 N84-10952
Heat pipe technology development for high temperature space radiator applications
[DE84-012444] 21 p3402 N84-31581
KEDEM, B.
Higher order crossings
[AD-A137086] 10 p1571 N84-20296
KEDER, J.
Comparison of qualitative and quantitative measurements of temperature turbulence with monostatic sodar 18 p2865 N84-28188
KEDZIE, C. R.
Experimental measurements of wake characteristics of low aspect-ratio delta and flapped-plate planforms
[AD-A130398] 01 p0004 N84-10026
KEEBLER, H. C., III
Analysis and testing of the thermal design of the electronic package in the US Army's Upgraded Logic Module (ULM)
[AD-A135998] 09 p1308 N84-18551
KEECH, W. L.
Establishment and discontinuance criteria for Automated Weather Observing Systems (AWOS)
[AD-A135674] 09 p1349 N84-18811
KEEFE, D.
Power-amplification of a heavy-ion beam in an induction linac
[DE84-002911] 08 p1231 N84-18042
A high current heavy ion beam transport experiment at LBL
[DE84-009225] 20 p3294 N84-30912
KEEFE, J. R.
Rodent CNS neuron development: Timing of cell birth and death 09 p1357 N84-18870
KEEFE, R. L.
A summary of the mechanisms of delayed detonation
13 p1947 N84-22658
KEEFER, K. D.
Sol-gel transition in simple silicates, 2
[DE83-013975] 01 p0051 N84-10329
KEEFER, T.
Review of hydrologic models for evaluating use of remote sensing capabilities 07 p1022 N84-16629
KEEFER, T. N.
Remote sensing and hydrologic models
[E84-10082] 07 p1022 N84-16628
Strategies for using remotely sensed data in hydrologic models 07 p1022 N84-16630
KEEL, W. C.
Low-ionization emission regions in the nuclei of spiral galaxies 06 p0939 N84-16100
KEELY, J. F.
Velocity plots and capture zones of pumping centers for ground-water investigations
[DE83-016618] 03 p0401 N84-12624
KEENAN, F. P.
Further studies of nearby high velocity interstellar gas
24 p3973 N84-35157
KEENAN, V.
Modification of current feedback strategies: A text synthesis approach
[AD-A142187] 19 p3068 N84-29463
KEENE, B. J.
The density of liquid slags containing iron oxide
[NPL-DMA(A)-75] 17 p2622 N84-26782
KEENE, J.
Neutral carbon in the Egg Nebula (AFGL 2688)
[NASA-TM-84360] 16 p2574 N84-26518
Far-IR selected star formation regions
[NASA-TM-85955] 16 p2574 N84-26521
KEER, L. M.
Pullout of a rigid insert adhesively bonded to an elastic half plane
[AD-A137859] 11 p1668 N84-20885
KEESEE, J. E.
An investigation of airfoil dynamic stall with large amplitude motions
[AD-A134230] 07 p0948 N84-16150
KEESEE, R. G.
Studies of ions in a drift field: Laser diagnostics of excited states and measurements of thermochemical properties at equilibrium
[DE84-000363] 04 p0541 N84-13562
KEFFER, J. H.
Robust minimum distance estimation of the 3 parameter lognormal distribution
[AD-A138007] 12 p1896 N84-22349
KEGELMAN, J. T.
Experimental studies of boundary layer transition on a spinning and non-spinning axisymmetric body
01 p0002 N84-10014
KEGLEY, L.
Real-time in-situ targeting of geoplasma domains for purposes of chemical injection and artificial triggering of equatorial spread-F 05 p0639 N84-14208
KEHL, L. G.
Exploration of dose-response techniques with some applications to a simulation problem
[AD-A138029] 12 p1880 N84-22252
KEHOE, A. B.
Simulation of natural convection in a rectangular loop using finite elements
[DE84-003477] 08 p1160 N84-17550
KEHOE, M. W.
KC-135A winglet flight flutter program
18 p2788 N84-27692
Ground vibration test of F-16 airplane with initial decoupler pylon
[NASA-TM-86259] 24 p3854 N84-34439
KEIHM, S. J.
Analysis of regolith electromagnetic scattering as constrained by high resolution Earth-based measurements of the lunar microwave emission
[NASA-CR-174577] 05 p0764 N84-15012
KEIL, G.
CTX: A system for computer-aided indexing
[BMFT-FB-ID-83-006] 02 p0303 N84-11986
KEIL, J.
Experimental investigations on airfoils with different geometries in the domain of high angles of attack
[REPT-A-5/84-PT-1] 23 p3691 N84-33393
KEIL, R. S.
Evaluation of performance measures for an urban photochemical model
[PB84-115062] 09 p1343 N84-18771
KEINER, H.
Development of large area Multi-coloured Multifunctional Displays (MFA) in liquid crystal technology
[BMFT-FB-T-83-098] 02 p0300 N84-11970
KEISER, H.
Physical and chemical investigations on real catalyst surfaces
[BMFT-FB-T-83-273] 13 p1958 N84-22729
KEITH, R. H.
Versatile fire barrier systems for telephone cable
11 p1723 N84-21241
KEITH, T. G.
Grid flexibility and patching techniques
11 p1610 N84-20540
KEITHLEY, E. M.
Communications biophysics 22 p3684 N84-33362
KEJIA, Y.
YIDOYU-1: Computer system for optimal wing design
01 p0118 N84-10768
KELEM, S.
A representational basis for the development of a distributed expert system for Space Shuttle flight control
[NASA-TM-58258] 16 p2544 N84-26328
KELKAR, A.
Large deflections of circular isotropic membranes subjected to arbitrary axisymmetric loading
[NASA-TM-86271] 21 p3419 N84-31686
KELKAR, S. S.
Input filter compensation for switching regulators
[NASA-CR-173247] 07 p0996 N84-16459
KELL, G. S.
Thermodynamic surface for water: The formulation and computer programs
[PB83-249789] 04 p0496 N84-13256
KELL, K.
Primitive meteorites: Where do they come from and how do they form? 11 p1755 N84-21458
KELLEDES, W. L.
Development of a DC propulsion system for an electric vehicle
[NASA-CR-168306] 10 p1529 N84-20014
KELLEHER, D.
Atomic resonance and scattering
22 p3681 N84-33339
KELLER, A.
Approaches for updating databases with incompleted information and nulls
[AD-A144319] 24 p3969 N84-35130
KELLER, A. S.
A microprocessor-based range meter for electric vehicles
[DE83-902237] 02 p0304 N84-11993
Test and evaluation of the Philips Model PE 1701 and Lester Model 9865 electric vehicle battery chargers
[DE84-901243] 21 p3394 N84-31541
KELLER, D. J.
Scattering optical activity of chiral molecules: Circular intensity differential scattering and circular differential imaging
[DE84-010712] 21 p3493 N84-32137
KELLER, D. L.
A statistical technique for forecasting severe weather from vertical soundings by satellite and radiosonde
[PB84-114099] 08 p1192 N84-17772
Statistical severe storm nowcasting comparison of VAS and Rawinsonde soundings 24 p3930 N84-34878
KELLER, G. R.
Seismic properties of the crust and uppermost mantle of North America
[NASA-CR-175134] 06 p0877 N84-15708
Application of Magsat lithospheric modeling in South America. Part 1: Processing and interpretation of magnetic and gravity anomaly data
[E84-10115] 13 p2005 N84-23008
Application of MAGSAT to lithospheric modeling in South America. Part 2: Synthesis of geologic and seismic data for development of integrated crustal models
[E84-10126] 15 p2355 N84-25128
Correlation of tectonic provinces of South America and the Caribbean region with MAGSAT anomalies
15 p2355 N84-25130
Satellite elevation magnetic and gravity models of major South American plate tectonic features
15 p2355 N84-25131
Relation of MAGSAT anomalies to the main tectonic provinces of South America 15 p2356 N84-25137
KELLER, H. B.
The numerical calculation of traveling wave solutions of nonlinear parabolic equations on the line
[AD-A139238] 14 p2212 N84-24283
Exact boundary conditions at an artificial boundary for partial differential equations in cylinders
[AD-A139310] 14 p2213 N84-24292
KELLER, H. L.
Robotic technology applied to Army mobility systems
[AD-A134728] 08 p1216 N84-17933
KELLER, J. B.
Rising bubbles
[AD-A131572] 03 p0371 N84-12418
Rough surface scattering via the smoothing method
[AD-A137025] 10 p1575 N84-20323
Bibliography and abstracts of papers pertaining to applied mathematics
[AD-A137823] 11 p1750 N84-21420
Research activities of the Applied Mathematics Group
[AD-A137838] 11 p1750 N84-21422
Effective viscosity of a periodic suspension
[AD-A140483] 16 p2493 N84-25995
Reflection, scattering, and absorption of acoustic waves by rough surfaces
[AD-A140523] 16 p2555 N84-26390

Nonlinear phenomena in electromagnetic and acoustic wave propagation
[AD-A140716] 17 p2653 N84-26969
KELLER, J. J.
Vortex breakdown: A two-stage transition 03 p0325 N84-12124
KELLER, K.
Simulation of mechanical cross coupling of multiaxes vibration facilities 03 p0340 N84-12207
KELLER, M. R.
Millimeter wave radiometric images of the marginal ice zone 23 p3772 N84-33912
KELLER, P.
Using a commercial CAD system for simultaneous input to theoretical aerodynamic programs and wind-tunnel model construction 12 p1875 N84-22223
KELLER, R.
Radiflow multiprocessing
[DE84-003194] 12 p1884 N84-22282
Performance validation of Sperry Flight Management Systems (FMS) 17 p2587 N84-26580
Graphical error analysis
[BMFT-FB-T-84-081] 22 p3642 N84-33093
KELLER, R. A.
Approach to single-molecule detection by laser-induced fluorescence
[DE84-001338] 04 p0542 N84-13572
Resonance ionization mass spectroscopy at Los Alamos National Laboratory
[DE84-001705] 07 p0972 N84-16297
Prospects for single-molecule detection in liquids by laser-induced fluorescence
[DE84-001702] 09 p1324 N84-18647
KELLER, T. M.
Fluorinated polyurethanes
[AD-D011066] 19 p3000 N84-29011
KELLER, V. W.
Space shuttle exhaust cloud properties
[NASA-TP-2258] 05 p0702 N84-14606
Warm fog dissipation using large volume water sprays
[NASA-CASE-MFS-25962-1] 22 p3538 N84-32396
KELLER, W. C.
Use of sperm enzymes to detect genotoxic agents
[AD-A142724] 20 p3260 N84-30691
KELLEY, B. S.
Response of the cardiovascular system to vibration and combined stresses
[AD-A142166] 19 p3066 N84-29450
KELLEY, G. G.
Preionization and start-up in the ISX-B Tokamak using electron cyclotron heating at 28 GHz
[DE84-002261] 06 p0920 N84-15984
KELLEY, H. J.
Climb-dash real-time calculations
[NASA-CR-173184] 07 p0943 N84-16115
On-board near-optimal climb-dash energy management 07 p0943 N84-16116
Optimal symmetric flight with an intermediate vehicle model 07 p0943 N84-16117
Energy state revisited 07 p0943 N84-16118
Optimal symmetric flight with an intermediate vehicle model
[NASA-CR-173181] 07 p0951 N84-16167
KELLEY, H. L.
Helicopter anti-torque system using strakes
[NASA-CASE-LAR-13233-1] 23 p3692 N84-33400
KELLEY, K.
Corrosion of underground pipe
[PB83-243923] 02 p0198 N84-11289
KELLEY, M.
Problem analysis and definition in act generation
[AD-A137978] 13 p2022 N84-23111
KELLEY, N. D.
Acoustical measurements of DOE/NASA MOD-0 wind turbine at Plum Brook Station, Ohio
[DE83-011971] 02 p0242 N84-11584
Aerodynamic sources of acoustic radiation from a single MOD-2 wind turbine
[DE84-000013] 06 p0909 N84-15905
KELLEY, P.
Managing for success in defense systems acquisition
[AD-P002789] 13 p2056 N84-23336
KELLEY, R. F.
Photon-burst correlation techniques for atmospheric crosswind measurements
[AD-A134617] 08 p1187 N84-17735
KELLEY, R. N.
Great lakes monthly hydrologic data
[PB84-114545] 09 p1339 N84-18745
KELLEY, V. T.
Prediction of hydraulic pump failures through wear debris analysis
[AD-A131386] 02 p0229 N84-11503
KELLEY, W. K.
Engineering properties of some coatings
[DE84-002715] 21 p3371 N84-31390
KELLMAN, A. G.
Experimental study of high beta toroidal plasmas
[DE84-004869] 07 p1078 N84-17006
KELLNER, T. P.
Acute intramuscular toxicity (LD50) of 1,1'-trimethylenebis (4-(Hydroxyiminomethyl) pyridinium bromide) monohydrate, (TMB-4) in male mice
[AD-A133148] 06 p0886 N84-15758
KELLOGG, D. L.
Distributed processing tools definition. Volume 1: Hardware and software technologies for tightly-coupled distributed systems
[AD-A137686] 11 p1704 N84-21105
Distributed processing tools definition. Volume 2: Application of software engineering technology
[AD-A137687] 11 p1704 N84-21106
Distributed processing tools definition. Volume 3: An integrated software engineering environment for distributed processing software development
[AD-A137688] 11 p1704 N84-21107
KELLOGG, G. L.
Pulsed-laser atom-probe studies of surface chemical reactions
[DE84-012811] 20 p3151 N84-30007
KELLOGG, K. S.
Paleomagnetic studies in Antarctica 14 p2162 N84-23950
KELLOGG, P. J.
Fast magnetospheric echoes of energetic electron beams 05 p0636 N84-14187
A second kind of Beam-Plasma Discharge (BPD): Rocket and laboratory results 05 p0637 N84-14193
KELLOGG, R. B.
Empirical background calculation method for multi-channel X-ray spectrometers
[PB84-130475] 09 p1319 N84-18618
KELLOGG, R. S.
Comparison of color versus black-and-white visual displays as indicated by bombing and landing performance in the 2B35 TA-4J flight simulator
[AD-A144674] 24 p3857 N84-34455
KELLY, A. L.
Operational studies and expected performance of superconducting quadrupole magnets in the first stages of secondary beams
[DE83-016734] 03 p0456 N84-12999
KELLY, D. J.
Coupled-transport membranes for metal separations, phase 5
[PB84-127034] 09 p1286 N84-18396
KELLY, D. M.
Description and analysis of PACAM 5 (Piloted Air Combat Analysis Model) as a tactical decision aid with a user's guide for operation at NPS
[AD-A136793] 10 p1574 N84-20313
KELLY, E. J.
A catalogue of spreading modulation spectra
[AD-A134850] 08 p1145 N84-17454
KELLY, G. M.
Subsonic longitudinal performance coefficient extraction from shuttle flight data: An accuracy assessment for determination of data base updates 01 p0026 N84-10163
STS-8 bet results
[NASA-CR-172257] 02 p0184 N84-11197
STS-9 BET products
[NASA-CR-172314] 11 p1622 N84-20616
Final STS-11 (41-B) best estimate trajectory products: Development and results from the first Cape landing
[NASA-CR-172349] 18 p2802 N84-27786
STS-13 (41-C) BET products
[NASA-CR-172350] 20 p3134 N84-29901
KELLY, H. N.
Modification of NASA Langley 8 foot high temperature tunnel to provide a unique national research facility for hypersonic air-breathing propulsion systems
[NASA-TM-85783] 16 p2454 N84-25733
Shell tile thermal protection system
[NASA-CASE-LAR-12862-1] 18 p2817 N84-27886
KELLY, J. G.
Fiber optic bundle towed array
[AD-D011034] 19 p3105 N84-29724
KELLY, J. J.
The Navy program to develop replacements for critical and strategic materials 23 p3704 N84-33478
KELLY, J. R.
In-trail dynamics of multiple CDTI-equipped aircraft queues
[NASA-TM-85699] 07 p0953 N84-16178
KELLY, K. A.
Swirls and plumes or application of statistical methods to satellite-derived sea surface temperatures
[AD-A135462] 10 p1528 N84-20010
KELLY, L. G.
Composite structure repair
[AD-A141456] 21 p3358 N84-31300
KELLY, M.
Army digital test requirements analytic report
[AD-A137394] 10 p1486 N84-19714
KELLY, M. D.
Dynamic thermography of thermite chemical heat sources
[DE84-002837] 07 p0971 N84-16291
KELLY, M. E.
Aircraft transparency testing methodology
[AD-P003213] 17 p2594 N84-26626
KELLY, R. E.
Space shuttle orbiter leading-edge flight performance compared to design goals 01 p0025 N84-10161
KELLY, S.
Binary classification and the subtractive approach
[AD-A137716] 11 p1701 N84-21099
KELLY, T. P.
Structural pressure sensitive silicone adhesives
[NASA-CASE-LAR-13270-1] 22 p3556 N84-32532
KELLY, W. R.
Characterization of acid rain for source identification. Task 1: Sulfur isotope rationing
[DE84-006510] 12 p1845 N84-22030
KELM, R.
Horizontal geodesy control networks 10 p1519 N84-19943
KELMAN, V. A.
Hollow cathode cell for pulsed lasers using metal vapors and their chemical compounds 13 p1968 N84-22778
KELNER, Y.
Results from study of Earth resources from space 19 p2976 N84-28867
KELPL, M. J.
Flight test and analyses of the B-1 structural mode control system at supersonic flight conditions
[NASA-CR-170405] 04 p0487 N84-13197
KELSALL, T.
Submillimeter wavelength survey of the galactic plane from l = -5 deg to l = +62 deg: Structure and energetics of the inner disk
[NASA-TM-86077] 20 p3319 N84-31069
KELSEY, P. V., JR.
Joining silicon nitride based ceramics: A technical assessment
[DE84-011356] 20 p3164 N84-30092
KELTNER, N. R.
Transient-temperatures-measurement errors
[DE83-006300] 01 p0085 N84-10549
Rectangular heat source on a semi-infinite solid: An analysis of a thin film heat flux gage
[DE84-012234] 22 p3599 N84-32796
KELZON, A. S.
System for torque control of unbalanced rotor during passage through resonance 13 p1973 N84-22802
KEMME, J. E.
Performance demonstration of a high-power space-reactor heat-pipe design
[DE83-012688] 01 p0145 N84-10952
KEMP, N.
Experimental and theoretical studies of laser propulsion phenomenology
[AD-A140995] 18 p2846 N84-28069
KEMP, N. D.
Compiling the space shuttle wind tunnel data base: An exercise in technical and managerial innovators 01 p0026 N84-10166
KEMP, N. H.
Molten carbonate fuel cell performance model update
[DE84-012932] 22 p3589 N84-32733
KEMP, W. B., JR.
TWINTN4: A program for transonic four-wall interference assessment in two-dimensional wind tunnels
[NASA-CR-3777] 08 p1106 N84-17189
KEMPER, A.
AdaRel: A relational extension of Ada
[AD-A137108] 10 p1562 N84-20234
An analysis of application generators
[AD-A137159] 11 p1708 N84-21131
KEMPER, J. P.
Job handling in a network of distributed processors
[EUT-82-E-131] 10 p1566 N84-20262
KEMPERMAN, G. T. J.
An Electronic Counter Measures (ECM) program generator
[LEOK-TR-1983-13] 18 p2830 N84-27970
KEMPPAINEN, M.
Reactor pressure vessel steels ASME SA 533B and SA508.C1.2: Microstructural investigations
[VTT-RR-219] 07 p0977 N84-16333
KEMPSON, R. M.
Colour testing of nitrocellulose propellants by a spectrophotometric method
[AD-A133091] 05 p0662 N84-14348

KENAHAN, C. B.
New developments in materials recycling by the US Bureau of Mines 23 p3704 N84-33480
KENAN, R. P.
Integrated-optical approaches to matrix multiplication 12 p1906 N84-22418
KENDAL, J. M.
Pressure letdown method and device for coal conversion systems
[NASA-CASE-NPO-15100-1] 05 p0698 N84-14583
KENDALL, E. R.
A brief review of aircraft controls research opportunities in the general aviation field 11 p1619 N84-20595
KENDALL, G. R.
Classification of the California Desert for geology-energy-mineral resource potential geostatistical classification
[PB84-100668] 10 p1538 N84-20078
KENDALL, P. W.
Reliability and maintainability study of select solar-energy-system components in the National Solar Data Network
[DE83-011974] 03 p0404 N84-12647
KENDIG, M. W.
Application of electrochemical and mechanical impedance measurements to corrosion induced failures
[AD-A142468] 20 p3153 N84-30021
KENESHEA, T. J.
On the determination of the index of refraction of the atmosphere
[AD-A132107] 04 p0563 N84-13713
On the horizontal and vertical variability of the vertical turbulent eddy diffusion coefficients in the mesosphere
[AD-A137677] 11 p1687 N84-21002
KENIK, E. A.
Radiation damage and phase instability in irradiated stainless steel
[DE83-017190] 03 p0354 N84-12303
KENIMER, R. L.
Technology evaluation of man-rated acceleration test equipment for vestibular research
[NASA-CR-172160] 04 p0574 N84-13781
KENLEY, R. A.
Structure-activity correlations for organophosphorus ester anticholinesterases. Part 2: CNDO/2 calculations applied to ester hydrolysis rates
[NASA-TM-85888] 07 p0966 N84-16257
KENNAUGH, E. M.
Transient current density waveforms on a perfectly conducting sphere
[AD-A135862] 09 p1300 N84-18500
KENNEALLY, D. J.
Volterra transfer functions from pulse tests for mildly nonlinear channels
[AD-A135703] 09 p1308 N84-18553
KENNEDY, C. R.
Comparison of the characteristics of graphites irradiated at 600 and 9000 deg C
[DE83-015695] 08 p1123 N84-17297
KENNEDY, F. E., JR.
Factors influencing thermomechanical failure of face seals, 3
[AD-A138546] 13 p1997 N84-22961
KENNEDY, G. R.
A GaAs refractometer for tropospheric studies 15 p2324 N84-24952
KENNEDY, J. H.
Re-examination of beta-alumina doped with chromium using photoacoustic spectroscopy 11 p1742 N84-21389
Photoelectrochemistry at iron oxide electrodes
[DE84-011453] 20 p3150 N84-30003
KENNEDY, J. J.
Incentive contracts and cost growth
[AD-A140930] 18 p2943 N84-28663
KENNEDY, J. M.
Analytical response of concrete structures subjected to high temperatures
[DE83-009625] 03 p0389 N84-12538
Opening of an interface flaw in a layered elastic half-plane under compressive loading
[NASA-TM-86282] 22 p3611 N84-32877
KENNEDY, R. H.
Environmental and water quality operational studies. Riverine influences on the water quality characteristics of West Point Lake
[AD-A141328] 18 p2877 N84-28271
KENNEDY, R. S.
Communication networks 22 p3683 N84-33356
Comparison of color versus black-and-white visual displays as indicated by bombing and landing performance in the 2B35 TA-4J flight simulator
[AD-A144674] 24 p3857 N84-34455
KENNEL, C.
Dynamical properties of disordered systems
[AD-A141597] 19 p3085 N84-29580
KENNEL, C. F.
On the relationship between collisionless shock structure and energetic particle acceleration
[NASA-CR-175328] 06 p0910 N84-15909
KENNEL, H. F.
A stochastic model for photon noise induced by charged particles in multiplier phototubes of the space telescope fine guidance sensors
[NASA-TP-2337] 16 p2556 N84-26398
KENNEL, J. M.
Temperature controlled gyro
[AD-D011138] 22 p3596 N84-32777
KENNEY, J.
X-ray holographic microscopy experiments at the Brookhaven synchrotron light source
[DE84-004289] 10 p1499 N84-19796
KENNEY, M.
Classification management. Journal of the National Classification Management Society, volume 18, 1982
[AD-A138480] 12 p1919 N84-22502
KENNEY, W. L., JR.
Physiological responses of normotensives and essential hypertensives to exercise in the heat 04 p0572 N84-13768
KENOYER, J. L.
Evaluation of a draft standard on performance specifications for health physics instrumentation
[DE83-016169] 02 p0266 N84-11749
Evaluation of a draft standard on performance specifications for health physics instrumentation
[DE83-016186] 02 p0266 N84-11750
KENRICK, J. R.
A comparative study of the fatty acid composition of prochloron lipids 10 p1544 N84-20115
KENT, G. S.
Development of a global model for atmospheric backscatter at CO2 wavelengths 24 p3924 N84-34838
KENT, J. H.
Soot formation in diffusion flames 15 p2291 N84-24750
KENWORTHY, M. J.
Aerothermal modeling, phase 1. Volume 1: Model assessment
[NASA-CR-168296-VOL-1] 06 p0790 N84-15155
Aerothermal modeling, phase 1. Volume 2: Experimental data
[NASA-CR-168296-VOL-2] 06 p0790 N84-15156
KENWORTHY, M. K.
Aerothermal modeling. Executive summary
[NASA-CR-168330] 06 p0790 N84-15152
KENYON, J. W.
Hybrid seal
[AD-D011083] 22 p3605 N84-32835
KENYON, S.
Hydrodynamic simulations of a combined hydrogen, helium thermonuclear runaway on a 10 km neutron star
[DE83-012658] 03 p0463 N84-13047
Theoretical calculation of rapid X-ray transients and radius expansion
[DE84-001312] 06 p0941 N84-16114
KEPHART, B.
The problem of tracking charged particles in the cores of high energy jets in a high rate environment 06 p0911 N84-15916
KEPHART, J. O.
Planar channeling radiation from relativistic positrons and electrons in LiF
[DE84-002800] 07 p1081 N84-17033
KEPLER, R. G.
Origin of pyroelectricity in polyvinilydene fluoride
[DE83-015227] 02 p0201 N84-11311
KEPPLE, P. C.
Non-LTE radiation from an argon seeded microballoon implosion 2
[AD-A133679] 05 p0749 N84-14919
KEPPLER, E.
The ISPM energetic panel particle composition experiment 09 p1261 N84-18233
The ISPM interstellar neutral-gas experiments 09 p1261 N84-18234
KEPPLER, H.
Microearthquakes induced during hydraulic fracturing at the Fenton Hill HDR site: The 1982 experiments
[DE83-014191] 03 p0408 N84-12672
KERANEN, L.
Vibration Control Of Space Structures VCOSS B: Momentum exchange and truss dampening
[AD-A139910] 15 p2281 N84-24701
KERBER, R.
Spatial electron density and electric field strength measurements in microwave cavity experiments
[NASA-CR-173907] 22 p3582 N84-32682
KERBER, R. L.
Computer modeling of pulsed chemical lasers
[AD-A141889] 19 p3029 N84-29212
KERCHER, J. R.
Modeling SO2 effects on the productivity and growth of plants
[DE83-010259] 07 p1027 N84-16855
KERELIUK, S.
Evaluation of the effects of lateral and longitudinal aperiodic modes on helicopter instrument flight handling qualities
[AD-A134116] 05 p0629 N84-14135
KERHOFF, H. G.
Tolerance analysis and related measurements on MVL-CCD's (Multiple-valued-Charge-Coupled Devices)
[AD-P002346] 14 p2191 N84-24137
KERIMOV, O. M.
Improving energy performance and duty time of production process CW electrical ionization CO2 lasers by using five-component lasing mixtures 21 p3481 N84-32065
KERKAR, S. P.
A critical analysis of the uses of multiple regression in the study of human judgement
[AD-A131224] 01 p0116 N84-10755
The effect of information display format on multiple-cue judgment
[AD-A142884] 21 p3459 N84-31941
KERLIN, T. W.
Response of installed temperature sensors
[DE83-015509] 02 p0224 N84-11471
KERLING, J. L.
An analysis of aircraft data collected in the Alboran Sea during Donde Va?, 6 - 18 October 1982
[AD-A133995] 06 p0683 N84-15746
KERN, D. L.
Acoustic environments for JPL shuttle payloads based on early flight data 10 p1512 N84-19898
KERN, E. A.
Hydrogen fluoride formation and metal corrosion in freon-contaminated propellants 20 p3137 N84-29921
KERN, E. L.
Microgravity silicon zoning investigation
[NASA-CR-170919] 04 p0488 N84-13207
KERN, F. A.
Shuttle flight pressure instrumentation: Experience and lessons for the future 01 p0026 N84-10167
NASA metrology information system: A NEMS subsystem 22 p3672 N84-33279
KERN, G. A.
R and M (Reliability and Maintainability) parameter analysis document IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A137328] 10 p1503 N84-19826
KERN, H.
Digitizing of block and parish boundary maps: Aids, experiences and problems 07 p1019 N84-16609
KERN, J.
Vibration Control Of Space Structures VCOSS B: Momentum exchange and truss dampening
[AD-A139910] 15 p2281 N84-24701
KERNER, H.
EDDA: A very high level data flow specification language 05 p0722 N84-14735
KERNER, W.
Axisymmetric, non-ideal MHD states with steady flow
[DE84-006045] 11 p1738 N84-21340
Axisymmetric MHD equilibria with flow
[IPP-6/230] 13 p2044 N84-23262
Semi-implicit method for three-dimensional compressible MHD simulation
[IPP-6/234] 20 p3301 N84-30961
KERR, A. R.
Topics in the optimization of millimeter-wave mixers
[NASA-TP-2287] 11 p1645 N84-20758
KERR, D.
Fluid replacement during hypothermia
[AD-A143807] 23 p3810 N84-34159
KERR, D. S.
The implementation of a multi-backend database system (MDBS). Part 4: The revised concurrency control and directory management processes and the revised definitions of inter-process and inter-computer messages
[AD-A140874] 17 p2750 N84-27453
KERR, G. A.
A bathythermograph to sound velocity profile program for the HP-41CV calculator, including a Northern Hemisphere salinity profile library
[AD-A130761] 01 p0111 N84-10720
KERR, G. L.
Snowy Range Observatory: Climatological and streamflow data report 1982
[PB83-243147] 03 p0403 N84-12633
KERR, P. A.
Steady internal flow and aerodynamic loads analysis of shuttle thermal protection system
[NASA-TP-2255] 10 p1439 N84-19393

Rational-spline approximation with automatic tension adjustment
[NASA-TP-2366] 23 p3817 N84-34204

KERR, R. A.
Higher-order derivative correlations and the alignment of small-scale structures in isotropic numerical turbulence
[NASA-TM-84407] 05 p0679 N84-14464

KERR, S.
Organizational outcomes of creativity
[AD-A132825] 06 p0933 N84-16066

KERR, T. P.
Cellular localization of Na(+), K(+)-ATPase in the mammalian vestibular system 09 p1359 N84-18880

KERRISK, J. F.
Electrical and thermal modeling of railguns
[DE84-001361] 04 p0515 N84-13387

KERSH, T. B.
Signal processor interface simulation of the AN/SPY-1A radar controller
[AD-A132170] 04 p0522 N84-13429

KERSHAW, R.
Homogeneity and magnetic susceptibility in some substituted cadmium spinels
[AD-A135297] 08 p1131 N84-17357

KERSHAW, R. P.
Modes of deformation and failure of Kevlar 49 fibers and composites
[DE84-004162] 13 p1954 N84-22706

KERSHENBAUM, A.
Research in network management techniques for tactical data communications networks
[AD-A131357] 02 p0209 N84-11365
Research in net management techniques for tactical data networks
[AD-A131674] 03 p0361 N84-12352

KERSTEEN, Z. A.
Human factors issues associated with the use of speech technology in the cockpit
[NASA-CR-166548] 08 p1143 N84-17433

KERSTEN, P.
Research on the use of metal-organic compounds as photoconductors in electrophotography
[BMFT-FB-T-84-112] 23 p3825 N84-34262

KERTH, W. J., JR.
Digitally-controlled adaptive welding system
[PB84-125285] 09 p1326 N84-18664

KERTH, W. J., SR.
Digitally-controlled adaptive welding system
[PB84-125285] 09 p1326 N84-18664

KERUT, E.
Satellite data relay and platform locating in oceanography. Report of the In Situ Ocean Science Working Group
[NASA-TM-85443] 12 p1860 N84-22116

KERWIN, N.
Analysis and programming for electromagnetic applications
[AD-A142313] 19 p3009 N84-29071

KERWIN, W.
Development of thermionic integrated circuits for applications in hostile environments
[DE84-011374] 21 p3393 N84-31533

KERZHANOVICH, V. V.
Proposals for VIRA (Venus International Reference Atmosphere): Dynamics and structure below 100 km
[REPT-831] 11 p1758 N84-21475

KESHOCK, E. G.
Measurement of local convective heat transfer coefficients of four ice accretion shapes
[NASA-CR-174680] 16 p2439 N84-25646

KESKINEN, M. J.
Parametric excitation and suppression of convective plasma instabilities in the high latitude F-region ionosphere
[AD-A130652] 01 p0105 N84-10682
Unified theory of the power spectrum of long wavelength ionospheric electron density irregularities
[AD-A137356] 10 p1537 N84-20068
Nonlinear theory of the E x B instability with an inhomogeneous electric field
[AD-A137132] 10 p1569 N84-20277

KESNER, J.
Sloshing-ion equilibria in the TARA endplugs
[DE84-003360] 11 p1738 N84-21337
Introduction to tandem mirror physics
[DE84-006644] 12 p1911 N84-22451

KESSEL, H.
Development of silicon nitride gas turbine components, phase 2
[BMFT-FB-T-83-322] 15 p2262 N84-24591

KESSEL, W.
Process controlled measuring valve acquisition taking example by the noise measuring technique
[PTB-E-25] 16 p2554 N84-26389

KESSELMAN, M.
Effect of space environment on space-based radar phased-array antenna (A0133) 15 p2271 N84-24638

KESSELRING, J. P.
Proceedings of the 5th Workshop on Catalytic Combustion
[PB84-145580] 12 p1794 N84-21703

KESSLER, R.
First results of the evaluations of the European SAR 580 data for agricultural and forestry purposes in test site D6, Freiburg (West Germany) 03 p0398 N84-12599
Oscillatory convection
[DFVLR-FB-84-14] 23 p3747 N84-33756

KESTERKE, D. G.
Panel 2B: Engineering-technology assessment, hard minerals 18 p2866 N84-28197

KETCHAM, S. J.
Current procurement specification design requirements for US Navy aircraft 16 p2434 N84-25615

KETCHEN, H. G.
Analysis of US Coast Guard HU-25A visual and radar detection performance
[AD-A133380] 06 p0784 N84-15138
Airship proof-of-concept evaluation
[AD-A141759] 19 p2959 N84-28753
Evaluation of U.S. Coast Guard forward-looking airborne radars
[AD-A142417] 20 p3174 N84-30156

KETELLE, R. H.
Conductivity mapping of underground flow channels and moisture anomalies in carbonate terrain using electromagnetic methods
[DE84-004098] 08 p1178 N84-17677

KETONEN, T.
Twisted sums of nuclear Frechet spaces 04 p0576 N84-13800

KETTEL, D.
Migration of natural gas and resevoir formation in east lower Saxony
[BMFT-FB-T-83-153] 02 p0250 N84-11639

KETTERSON, J. B.
Improved superconducting magnet wire
[DE84-011233] 21 p3393 N84-31531
Coupling of Rayleigh-like waves with zero sound modes in normal He-3
[DE84-010519] 22 p3653 N84-33153
Method and apparatus for measuring shear modulus and viscosity of a monomolecular film
[DE84-014502] 23 p3761 N84-33841

KETTLER, R.
A multigrid method and a combined multigrid-conjugate gradient method for elliptic problems with strongly discontinuous coefficients in general domains
[PUBL-604-REV] 08 p1222 N84-17980

KETTNER, G. A.
Project UPGRADE extended statistical analysis
[AD-A130823] 01 p0137 N84-10897

KEUNG, C. S.
A 10 deg K triple-expansion Stirling-cycle cryocooler 06 p0819 N84-15336

KEUNINGS, R.
Continuum theory for fiber suspensions
[DE84-012258] 21 p3402 N84-31584

KEVORKIAN, J.
Nonlinear resonance
[AD-A135117] 08 p1218 N84-17950

KEY, D. C.
A review of US Army aircrew-aircraft integration research programs
[NASA-TM-85947] 19 p2968 N84-28809

KEY, J. F.
Development of holographic interferometry for welding arc analysis
[DE84-005454] 13 p1994 N84-22940

KEYDEL, W.
Radar activities of the DFVLR Institute for Radio Frequency Technology 07 p0990 N84-16418

KEYES, J. J., JR.
A gas-flow tracing technique applicable to rotating systems boundary layer on a rotating disk
[DE83-012761] 03 p0372 N84-12425

KEYSE, S. J.
Linguistics 22 p3684 N84-33359

KEYSER, D. R.
Electrofluidic angular rate sensor for ejection seat thrust vector control
[AD-A133233] 06 p0784 N84-15137

KEYSER, G. L., JR.
Simulator study of flight characteristics of a large twin-fuselage cargo transport airplane during approach and landing
[NASA-TP-2183] 03 p0337 N84-12190

KEYSER, S. J.
Speech communication 22 p3684 N84-33358

KEZELIS, R. M.
The effect of pressure on complex heat exchange in a channel with an electric arc
[BLL-OA-TRANS-3090-(6196.3)] 09 p1311 N84-18569

KHACHATURYANTS, L. S.
Biofeedback methods and quality of operator's performance 17 p2740 N84-27399

KHACHIN, V. N.
Interrelationship between temperature intervals of inverse martensite transformation and shape restoration in titanium nickelide-based alloys 12 p1786 N84-21648
Martensite transformation and shape memory in Ti0.5Ni0.5-xPd sub x system alloys 12 p1786 N84-21649

KHAENKO, B. V.
Magnetic properties of interstitial phases in vanadium-oxygen system
[BLL-M-35386] 09 p1393 N84-19095

KHAITOV, R. M.
Genetic control and phenotypic correction of cellular immune response to H-antigen of Salmonella typhimurium 17 p2740 N84-27400

KHALEGHI, B.
Inelastic stability of tapered, singly-symmetric beam-columns 02 p0230 N84-11509

KHALIFA, H. E.
Waste heat recovery from adiabatic diesel engines by exhaust-driven Brayton cycles
[NASA-CR-168257] 21 p3521 N84-32307

KHALILULOV, S. S.
Ocean bottom seismic equipment 19 p3060 N84-29413

KHALYAVKO, P. M.
Effects of insulin and hydrocortisone on energy metabolism in rats irradiated with fast, 60 MeV neutrons 22 p3630 N84-33002

KHAMIRSOV, K. M.
Joint analysis of the data obtained by detecting the general, muon, and neutron components of cosmic ray intensity on May 7, 1978 24 p3993 N84-35270

KHAMITSEV, S. V.
Optimization of parameters of electromechanical systems with mechanical balancing
[BLL-M-35442] 09 p1324 N84-18651

KHAN, A. S.
Behavior of Ni-Cr-Si coating alloys in Na2SO4, V2O5 and mixed salt hot corrosion
[DE84-012386] 21 p3367 N84-31363

KHAN, I.
Deformable subreflector computed by geometric optics 04 p0519 N84-13407

KHAN, M.
Cognitive information processing 22 p3684 N84-33360

KHAN, M. M.
Combustibility of electrical wire and cable for rail rapid transit systems. Volume 1: Flammability
[PB83-233742] 02 p0217 N84-11420

KHAN, S.
Characterization of physio-chemical properties of polymeric and electrochemical materials for aerospace flight
[NASA-CR-175406] 10 p1465 N84-19568
Characterization of physiochemical properties of polymeric and electrochemical materials for aerospace flight
[NASA-CR-175258] 22 p3558 N84-32534

KHAN, T.
Potential of metal-matrix composites as superalloy substitutes 23 p3703 N84-33474

KHAN, W.
Two phase system; Interfacial turbulence
[AD-A143182] 22 p3593 N84-32754

KHAN, Z. H.
An analytical study of the effects of surface roughness on a compressible turbulent boundary layer
[AD-A136911] 10 p1492 N84-19756

KHANAKA, G. H.
Modeling and testing for second breakdown phenomena
[DE84-002470] 07 p0994 N84-16444

KHANANYAN, A. A.
Measurements of coefficient of turbulent diffusion in middle-latitude strato- and mesosphere 11 p1670 N84-20894

KHANDELWAL, G. S.
A study of physical processes for space radiation protection
[NASA-CR-173183] 07 p1071 N84-16954
Intermediate energy proton stopping power for hydrogen molecules and monoatomic helium gas 07 p1071 N84-16955

Low-energy proton stopping power of N2, O2 and water vapor and deviations from Bragg's rule
07 p1071 N84-16956

KHANDOV, M. Z.
Link between characteristics of EEG rhythms in biofeedback control and indexes for operator activity
21 p3455 N84-31927

KHANG, V. T.
Software production in a large space project: The SPOT mission center
05 p0724 N84-14752

KHANNA, R. K.
Laboratory infrared studies relevant to Io: A satellite to the planet Jupiter
[NASA-CR-173378] 12 p1922 N84-22522

KHANNA, S. K.
Corrosion resistant coating
[NASA-CASE-NPO-15928-1] 03 p0352 N84-12289

KHANNA, V. D.
A study of the tribological properties of graphite fiber-glass matrix composites
23 p3710 N84-33520

KHARCHENKO, V. A.
Influence of microalloying with titanium and boron on cold resistance of structural steel
[BLL-M-35696-(5828.4)] 22 p3551 N84-32483

KHARCHENKO, V. I.
Simulation of cerebrocranial trauma for evaluation and development of gear to protect pilots against impacts
02 p0259 N84-11695

KHARCHENKO, V. N.
Visualization of the 3-dimensional flow around a model with the aid of a laser knife
[NASA-TM-77497] 23 p3746 N84-33748

KHARITON, Y.
Chemical lasers
21 p3486 N84-32093

KHARITONOV, A. O.
Multi-transition stamping of components with thin body and tall stiffening ribs
[BLL-M-35384-(5828.4)] 08 p1140 N84-17415

KHARLAMOV, P. V.
Integrable equations of motion by inertia for two bodies coupled through spherical hinge
17 p2650 N84-26946

KHASANOV, I. S.
Laser screens of ZnSe produced by bridgeman method
12 p1787 N84-21658

KHASANOV, O. K.
Passage of strong electromagnetic pulse through semiconductor in external magnetic field
18 p2824 N84-27930

KHASINA, E. I.
Effect of eleuterococcus extract on recovery processes in rats following seven-day hypokinesia
02 p0260 N84-11706

KHATCHATRYAN, A. G.
Elastic theory of the defect solid solution
[DE84-001976] 10 p1590 N84-20418

KHATIB-SHAHIDI, B.
Shock tube study of the ignition and combustion of aluminum
[AD-A134035] 05 p0661 N84-14345

KHATRI, R.
Tracking and data acquisition system for the 1990's. Volume 7: TDAS space technology assessment
[NASA-CR-175199] 10 p1434 N84-19375

KHATSINSKAYA, I. M.
Carbide phases in high-temperature nickel-hafnium alloys
24 p3871 N84-34532

KHATYREV, N. P.
Precision photometer for measurement of low levels of maximum power of pulses laser radiation
17 p2638 N84-26873

KHAUSTOV, A. I.
Experience with development of sealed linear waveguide electron accelerators
13 p1969 N84-22780

KHAVARAN, A.
Acoustic pulse scattering from impedance covered cylinders
[AD-A131653] 03 p0431 N84-12822

KHAYRULLIN, I. K.
Regulation of mechanical characteristic of iron-powder electromagnetic brake
21 p3379 N84-31444

KHEIFETS, S.
Application of the Green's function method to some nonlinear problems of an electron storage ring. Part 1. The Green's function for the Fokker-Planck equation
[DE83-014829] 02 p0282 N84-11850
Blowup of a weak beam due to interaction with a strong beam in an electron storage ring
[DE83-016089] 02 p0291 N84-11908
Implicit function method for the Liouville equation
[DE84-013282] 22 p3650 N84-33140

KHENOKH, M. A.
Effects of lunar soil and metal oxides on thermal and radiochemical stability of amino acids
14 p2251 N84-24518

KHEYFETS, M. Y.
Soviet investigations of Earth's gravity field
11 p1670 N84-20897

KHEYMETS, G. I.
Reliability and efficiency of Kubicek rheographic method for monitoring cardiac output and stroke volume
20 p3253 N84-30644

KHIARI, F.
Design fabrication and testing of the BNL radio frequency quadrupole accelerator
[DE84-011915] 21 p3494 N84-32145

KHIFETS, S.
Analytic solution for the problem of gridded gap-electron flow interaction
[DE84-008975] 20 p3181 N84-30209

KHITAROV, N. I.
Adiabatic structure in mantle transition zone
18 p2863 N84-28177

KHIZHNIAK, V. G.
Composition and structure of multicomponent vanadium- and niobium-base coatings
[BLL-M-35657-(5828.4)] 22 p3550 N84-32474

KHLYBOV, G. N.
Trajectories of radio waves in linear layer with isometric inhomogeneities
17 p2631 N84-26833

KHLYNOV, V. V.
Formation of structure of low-alloy steel inoculated with rare-earth metals and alkaline-earth metals
[BLL-M-35321] 04 p0497 N84-13258

KHODADADI, J. M.
Optimation of cooled shields in insulations
[NASA-CR-166583] 18 p2836 N84-27999

KHODDAM-MOHAMMADI, H.
A discrete-element analysis for large deflection of thin plates: A combined effect of geometric and material nonlinearities
13 p2003 N84-22995

KHODOSEVICH, A. A.
Introduction of productive welding and surfacing technological processes to production of nuclear powerplant equipment
12 p1787 N84-21655

KHODZHIMATOV, V.
Measures to step up practical use of scientific work discussed
01 p0054 N84-10350

KHOE, T. K.
ASPUN, Argonne super intense pulsed pallation neutron source
[DE84-000311] 04 p0597 N84-13941

KHOLODNYY, L. P.
Assurance of unity of tests of semiconductor products
17 p2637 N84-26868

KHOMENKO, S. I.
The time-spatial structure of microwave radio fields on line-of-sight overwater paths
[REPT-220] 17 p2651 N84-26955

KHONSARI, M. M.
Thermodynamic analysis of journal bearings operating under steady state loading in laminar regime
23 p3756 N84-33809

KHOROSHILOV, V. N.
Estimation of local stress intensity in flanged thin-wall shell structures under heavy thermal load
13 p1972 N84-22799

KHOROTILOV, V. N.
Stressed-strained state of flanged shells under heavy thermal load beyond elastic limit
13 p1972 N84-22800

KHORRAMI, M. R.
Turbulent wall pressure simulation
[AD-A132297] 04 p0533 N84-13507

KHOSLA, P. K.
An algorithm for seam tracking applications
[AD-A141705] 19 p3031 N84-29227

KHOTANZAD, A.
An approach to rotation invariant texture classification and some experimental results
[AD-A134197] 07 p1061 N84-16881

KHOTUNTSEV, Y. L.
Intermodulation distortions in semiconductor microwave receivers and transmitters (survey)
22 p3569 N84-32605

KHOURY, F. A.
Relationship between morphology and mechanical properties of ultra high molecular weight polyethylene
[PB83-240960] 02 p0202 N84-11317

KHOVANSKIY, S. A.
Numeric extension of periodic solutions to Lagrangian system with two degrees of freedom
19 p2972 N84-28843

KHRAMOV, A. V.
Design of locked microwave oscillators on basis of scattering parameters of transistors operating in large signal mode
22 p3570 N84-32608

KHRUSHCHEV, V. V.
Criteria for accuracy of rotary transformers
17 p2635 N84-26857

KHUEN, L. V.
Changes in relative instantaneous spreading rates in the Indian Ocean
18 p2858 N84-28149

KHUKHLAYEV, V. K.
Results of psychophysiological study of Videoton terminal operators
21 p3454 N84-31919

KHVOROST, A. V.
Features of laser welding of AMg6 alloy
24 p3870 N84-34525

KHVOROSTYANOY, Y. I.
Thermoscopic study of diffraction current distribution
22 p3565 N84-32563

KIANG, N. Y. S.
Communications biophysics
22 p3684 N84-33362

KIANG, T.
Statistical problems in the determination of the cosmological deceleration parameter qo
09 p1412 N84-19233

KIATCHENKO, N.
The 12-T solenoid-design options for the MFTF-B upgrade
[DE83-016646] 03 p0430 N84-12817

KIBBLEWHITE, E. J.
The automated photographic measuring facility at Cambridge
18 p2842 N84-28043
Next generation microdensitometer
18 p2842 N84-28048
The role of the Automated Plate Measuring (APM) machine in developing a program to discover QSOs automatically
18 p2843 N84-28054

KIBE, S.
Shock and seismic response spectra in design problems
10 p1506 N84-19858

KIBENS, V.
Control of jet flowfield dynamics
[AD-A143631] 23 p3746 N84-33750

KIBLER, D. F.
Analytical and experimental study of grooved pavement runoff
[AD-A141021] 18 p2798 N84-27752

KIDD, C. T.
Determination of the uncertainty of experimental heat-flux calibrations
[AD-A131918] 03 p0376 N84-12450

KIDD, J. S.
A review of major issues relating to human-machine integration in the development of military systems
[AD-A136739] 10 p1554 N84-20184
An introduction to human factors for engineering managers: Framework for a teaching unit
[AD-A135958] 10 p1592 N84-20428

KIDD, P. D.
System planning tool to measure cost avoidance resulting from independent assessment techniques applied to test program software development
[AD-P003588] 21 p3340 N84-31193

KIDD, R. B.
King's Trough Flank: Geological and geophysical investigations of its suitability for high-level radioactive waste disposal
[IOS-166] 20 p3299 N84-30950

KIDD, S. J.
Implementation of the sign-logarithm arithmetic FFT
[AD-A139355] 15 p2396 N84-25373

KIDDER, S. Q.
Variational objective analyses for cyclone studies
24 p3924 N84-34840

KIDMAN, R. B.
Stability of the low degree 5 minute solar oscillations
[DE84-003786] 08 p1246 N84-18143
Some investigations about the Carson opacities
[DE84-003785] 09 p1415 N84-19262
Some masses for population 1 and 2 cepheids
[DE84-014032] 22 p3677 N84-33311

KIDNAY, A. J.
Liquid-vapor and solid-liquid-vapor phase equilibria in natural gas systems
[PB84-179191] 16 p2474 N84-25860

KIDWELL, J. R.
Navy packaging standardization thrusts
[AD-P003564] 21 p3336 N84-31169

KIEFER, M. A.
Research Trends in Military Communications
[AD-A138229] 13 p1975 N84-22821

KIEFER, R.
Investigation of electro-optical effects in liquid crystals for high information density over a wide temperature range
[BMFT-FB-T-84-120] 23 p3831 N84-34304

KIEFFER, H. H.
Intraband radiometric performance of the LANDSAT-4 Thematic Mapper
20 p3209 N84-30389

KIEFFER, R.
Investigations on the system boron-carbon silicon
[NASA-TM-77375] 09 p1275 N84-18324

KIELB, R. E.
Flutter of swept fan blades
[NASA-TM-83547] 07 p1015 N84-16587
Vibration and flutter of mistuned bladed-disk assemblies
[NASA-TM-83634] 14 p2157 N84-23923
Lewis Research Center spin rig and its use in vibration analysis of rotating systems
[NASA-TP-2304] 15 p2260 N84-24578
Nonlinear displacement analysis of advanced propeller structures using NASTRAN
[NASA-TM-83737] 21 p3419 N84-31683
KIEMELE, M. J.
Adaptive topological configuration of an integrated circuit/packet-switched computer network
[AD-A141309] 18 p2830 N84-27966
KIEPENHEUER, J.
The initial orientation of homing pigeons on the magnetic equator, with and without Sun compass
[INPE-3104-PRE/503] 16 p2534 N84-26271
KIERNAN, J. M.
A 1-dimensional time dependent model of the stratospheric aerosol 21 p3437 N84-31808
KIERSTEAD, J.
Quantum optics and photonics 22 p3682 N84-33344
KIES, W.
Schlieren diagnostics at SPEED 1 10 p1583 N84-20373
Breakdown phenomena in SPEED 1 10 p1583 N84-20374
KIESEL, K.
Investigation of noise in silicon avalanche photodiodes
[FI-14-TBR-11] 14 p2244 N84-24474
KIESLING, J. D.
Mobile radio alternative systems study satellite/terrestrial (hybrid) systems concepts
[NASA-CR-168064] 01 p0061 N84-10404
KIESSLING, F.
Modeling of the overall aeroelastic system of a wind turbine aided by symbolic programming
[DFVLR-FB-84-10] 18 p2877 N84-28265
KIESZEK, M. C.
Synthesis of refractory compounds with gasless combustion reactions
[AD-A140296] 16 p2472 N84-25842
KIETZMANN, H.
Preliminary investigations concerning a 90 GHz radiometer satellite experiment
[DFVLR-FB-84-02] 15 p2280 N84-24693
Preliminary investigations concerning a 90 GHz radiometer satellite experiment 23 p3781 N84-33978
KIJAK, S.
Telecommunications (selected articles)
[AD-A131872] 03 p0361 N84-12346
KIKUCHI, R.
Study of phase diagrams of ternary semiconductors
[AD-A133556] 06 p0923 N84-16000
Multicomponent diffusion under general chemical potential gradients
[DE84-010830] 22 p3548 N84-32458
KIKUCHI, Y.
Characteristics of heat and flame resistant optical fiber cables 11 p1726 N84-21260
KILCOYNE, M. K.
Monolithic SAW oscillators on silicon
[AD-A143664] 23 p3741 N84-33716
KILDUFF, P. W.
Missile component repair while wearing NBC protective clothing
[AD-A137315] 10 p1553 N84-20180
Human engineering guidelines for management information systems. Change 1
[AD-A137806] 11 p1703 N84-21104
KILE, J. N.
Results from wind tunnel and artificial rainfall tests of the modified scan sensor
[AD-A133238] 06 p0792 N84-15162
The feasibility of using precursor aerosol parameters to predict visibility in fog and haze
[AD-A137141] 10 p1539 N84-20084
Aerosol characteristics on the Alboran sea, 9-18 october 1982
[AD-A139692] 15 p2371 N84-25227
KILGER, R.
The importance of radio interferometry for geodynamics 08 p1173 N84-17644
KILGORE, P. D.
Photodigitizing procedures
[AD-A143589] 22 p3599 N84-32793
KILGUS, C. C.
The Navy Geosat mission radar altimeter satellite program 23 p3782 N84-33982
KILKENNY, E. A.
An evaluation of a mobile aerodynamic test facility for hang glider wings
[COFA-8330] 10 p1432 N84-19361
Full scale wind tunnel tests on hang glider pilots
[CA-8416] 16 p2438 N84-25643
KILKENNY, J. D.
Line intensities for diagnosing laser-produced plasmas
[DE84-009857] 19 p3106 N84-29736
KILLINGER, D. K.
Laser remote sensing of atmospheric pollutants
[AD-A130259] 01 p0103 N84-10670
KILLION, T. H.
Companion trainer aircraft: Concept test
[AD-A131378] 02 p0268 N84-11757
KILLOUGH, G. G.
Chemical and biological processes in CO/sub 2-ocean models
[DE84-003304] 08 p1182 N84-17702
Conversational eigenanalysis program for solving differential equations
[DE84-007560] 15 p2399 N84-25397
Computer implementation of a globally averaged model of the world carbon cycle
[DOE/NBB-0062] 23 p3793 N84-34055
KILLOUGH, J. R.
Automatic combustor controller development and liquid-fuel combustor design program
[AD-A130368] 01 p0052 N84-10335
KILMER, R.
Surface acoustic wave/silicon monolithic sensor/processor
[NASA-CR-174541] 01 p0056 N84-10366
KILNER, J. A.
Energetics of oxygen ion transport in fluorite, perovskite and other oxide structures 11 p1740 N84-21354
Oxygen exchange measurements on zirconia-yttria electrolyte surfaces modified by various dopants 11 p1742 N84-21367
KILROY, W. P.
Investigation of the electrochemical formation of Li-C intercalation compounds
[AD-A130879] 01 p0037 N84-10233
KIM, B. K.
Frequency-shaped estimation and robust controller design for aircraft flight control in wind disturbances 05 p0632 N84-14154
Design and evaluation of a pulsating-flow wind tunnel
[PB84-116086] 09 p1260 N84-18223
KIM, B. S.
Optimization of waverider configurations generated from non-axisymmetric flows past a nearly circular cone 06 p0780 N84-15108
Uniaxial draw of poly(ethylene oxide) by solid state extrusion
[AD-A141923] 20 p3161 N84-30074
KIM, C. H.
A high current heavy ion beam transport experiment at LBL
[DE84-009225] 20 p3294 N84-30912
Beam experiment programs in the USA
[DE84-010804] 21 p3493 N84-32138
KIM, C. M.
High space harmonic perturbations in traveling wave tubes
[AD-A130204] 01 p0070 N84-10458
KIM, C. U.
The seismicity of the continental slope of the Kuril trench from the OBS observations 19 p3061 N84-29420
On the elastic wave velocity distribution beneath the continental slope of the Kuril trench 19 p3061 N84-29421
KIM, C. W.
Continuously deforming finite element method for moving free surface heat transfer problems 05 p0683 N84-14489
KIM, E. M.
Optical fiber characterization: Attenuation, frequency domain bandwidth, and radiation patterns, volume 2
[PB84-158914] 14 p2226 N84-24357
KIM, H. J.
Implications of heavy-ion-induced satellite X-ray emission. Part 2: Production of K and L X-rays by 0.9 to 2.6 MeV/u Ar ions in thick targets of V, Cu, Nb, Ta, and Pt
[DE83-015681] 03 p0453 N84-12982
Weldability of 2BT-treated 9Ni steel with ferritic filler metal
[DE84-008492] 18 p2815 N84-27869
KIM, H. K.
Unified analytical kinematic analysis and synthesis of spatial mechanisms 16 p2501 N84-26049
KIM, J.
Computation of turbulent flows over backward-facing step
[NASA-TM-85851] 03 p0371 N84-12414
Turbulence structures associated with the bursting event
[NASA-TM-85944] 12 p1815 N84-21831
Application of a fractional-step method to incompressible Navier-Stokes equation
[NASA-TM-85898] 12 p1893 N84-22328
Delayed feedback optimal controller 17 p2756 N84-27498
The structure of the vorticity field in turbulent channel flow. Part 1: Analysis of instantaneous fields and statistical correlations
[NASA-TM-86019] 22 p3593 N84-32753
KIM, J. G.
Radiation patterns of an antenna mounted on the off-mid section of an ellipsoid
[AD-A130956] 02 p0209 N84-11362
Radiation patterns of an antenna mounted on the mid-section of an ellipsoid
[AD-A133203] 06 p0823 N84-15365
KIM, J. S.
Total positivity, a review
[AD-A133691] 05 p0740 N84-14859
Reduced equations in three dimensional geometry
[DE84-009401] 20 p3282 N84-30841
KIM, J. U.
Smooth solutions to a quasi-linear system of diffusion equations for a certain population model
[AD-A129180] 01 p0126 N84-10839
On the model equations which describe nonlinear wave motions in a rotating fluid
[AD-A134556] 07 p1002 N84-16499
KIM, K.
Interaction of a stream of dielectric spheres in an electric field in a high vacuum
[DE83-013695] 04 p0600 N84-13958
KIM, K. C.
Infrared-laser spectroscopy using a long-pathlength absorption cell
[DE83-014197] 03 p0381 N84-12480
A design method for a state feedback microcomputer controller of a wide bandwidth analog plant
[AD-A142101] 19 p3072 N84-29490
KIM, K. J.
Free electron laser with versatile polarization capability
[DE84-002889] 07 p1011 N84-16557
KIM, K. M.
Silicon crystal growing by oscillating crucible technique
[DE84-011038] 20 p3309 N84-31019
KIM, K. O.
Nonlinear inverse perturbation method in dynamic redesign 06 p0779 N84-15107
KIM, K. S.
Viscoelastic effect on dynamic crack propagation in Homalite 100
[AD-P003115] 16 p2468 N84-25820
Metal-chelate polymers: Structural/property relationships as a function of the metal ion
[AD-A140205] 16 p2471 N84-25839
KIM, K. Y.
Theory of asymmetric double layers
[AD-A136960] 10 p1573 N84-20311
KIM, M. D.
Viscous shock-layer predictions of three-dimensional nonequilibrium flows past the space shuttle at high angle of attack 01 p0024 N84-10151
Three-dimensional nonequilibrium viscous shock-layer flow over the Space Shuttle orbiter 13 p1925 N84-22530
KIM, N.
Estimation of uncertainty in coal resources
[DE83-902538] 03 p0401 N84-12620
KIM, R. J.
Decision rules applied to spread spectrum signal detection
[AD-A144253] 24 p3894 N84-34661
KIM, S.
Hydrodynamic interactions between particles in low-Reynolds-number flow: A modular approach
[AD-A139269] 14 p2146 N84-23859
Microstructural evaluation of a ferritic stainless steel by small angle neutron scattering
[DE84-009487] 19 p2995 N84-28980
KIM, S. B.
Observations of soft X-ray fluctuations with an imaging array on TEXT
[DE83-018118] 03 p0447 N84-12938
KIM, S. H.
Operational studies and expected performance of superconducting quadrupole magnets in the first stages of secondary beams
[DE83-016734] 03 p0456 N84-12999
Magnet design approach for pulsed Tokamak reactors
[DE84-005261] 11 p1738 N84-21341

KIM, S. S.
Vehicle dynamic analysis with flexible components
[AD-P002939] 14 p2197 N84-24179
KIM, S. W.
Finite element method for incompressible laminar boundary layer flows 08 p1096 N84-17126
KIM, T. D.
Mechanical behavior of superplastically formed sandwich panels 10 p1453 N84-19490
KIM, W.
Very large scale integration logical and physical structures of VLSI systems
[BMFT-FB-T-83-267] 10 p1488 N84-19730
KIM, W. S.
Bacterial degradation of polychlorinted biphenyls in sludge from an industrial sewer lagoon
[NASA-TM-83543] 02 p0243 N84-11594
Radiation testing of the CMOS 8085 microprocessor family
[DE83-014604] 02 p0271 N84-11771
KIM, Y. B.
Japanese research institutes funded by private corporations
[AD-A140892] 17 p2772 N84-27600
KIM, Y. H.
The nature of quasicleavage fracture in tempered 5.5 ni steel after hydrogen charging
[AD-A133460] 06 p0806 N84-15252
Development of fatigue and crack propagation design and analysis methodology in a corrosive environment for typical mechanically-fastened joints. Volume 1: Phase I documentation
[AD-A136414] 09 p1331 N84-18691
Development of fatigue and crack propagation design and analysis methodology in a corrosive environment for typical mechanically-fastened joints. Volume 2: State-of-the-art assessment
[AD-A136415] 09 p1331 N84-18692
KIM, Y. I.
Vapor-liquid phase separator studies
[NASA-CR-166545] 08 p1156 N84-17527
KIM, Y. S.
Theoretical and experimental study of radar backscatter from sea ice
[AD-A139866] 15 p2321 N84-24935
KIMBALL-LINNE, M. A.
Advanced diagnostics for reacting flows
13 p1943 N84-22637
KIMBALL, C. W.
Studies of structural properties and their relationship to critical parameters in superconducting materials
[AD-A143556] 22 p3664 N84-33227
KIMBALL, K. A.
Selected factors affecting aircrew performance during sustained operations 11 p1698 N84-21074
KIMBLE, H. J.
Optical bistability with two-level atoms
14 p2231 N84-24383
KIMBLE, R. A.
Satellite observations of the extreme ultraviolet and far ultraviolet radiation fields 24 p3994 N84-35280
KIMES, D. S.
Comprehensive understanding for vegetated scene radiance relationships 12 p1830 N84-21933
Comprehensive understanding for vegetated scene radiance relationships 12 p1833 N84-21947
KIMLINGER, J. R.
OMEGA documentation
[DE84-007014] 14 p2206 N84-24239
KIMMEL, H. D.
An instrumental conditioning method for establishing chronic arousal
[AD-A140808] 17 p2740 N84-27396
KIMMER, E.
LANDSAT-4 MSS geometric correction: Methods and results 20 p3213 N84-30409
KIMREY, H. D.
The EBT-S 28-GHz, 200-kW, CW, mixed-mode, quasi-optical plasma heating system
[DE84-014415] 23 p3829 N84-34287
KIMURA, H.
Degradation of thermal shield materials in the space radiation environment 10 p1446 N84-19448
Reliability-based design principle of composite materials with failure probability as a statistic
15 p2309 N84-24851
KIMURA, I.
A transceiver module of the Mu radar
17 p2692 N84-27147
KIMURA, S.
Buckling flow and transition to turbulence in axisymmetric plumes 05 p0682 N84-14486
Crystal growth of artificial snow
18 p2799 N84-27763
KIMURA, T.
Analysis of sea ice in the Sea of Okhotsk using LANDSAT-MSS data (comparison with GMS data)
09 p1347 N84-18799
Lunar exploration by polar orbiter
[NAL-TR-755] 09 p1416 N84-19265
Clouds with appearance like Cb-cloud on satellite imagery 24 p3921 N84-34818
KINARD, C.
Atomic absorption spectrophotometric methods for the determination of phosphorous and silicon in steel
[DE84-002826] 09 p1286 N84-18395
KINARD, M. D.
A rodent and lightning protective sheath for fiber optic cables 11 p1724 N84-21246
KINARD, W. H.
Long Duration Exposure Facility (LDEF). Mission 1 Experiments
[NASA-SP-473] 15 p2270 N84-24632
Introduction to Long-Duration Exposure Facility
15 p2270 N84-24633
KINAST, J. A.
Gas-fired heat pump research and development: Review and assessment
[PB84-153907] 14 p2135 N84-23796
KINCAID, D. R.
Adapting iterative algorithms for solving large sparse linear systems for efficient use on the CDC CYBER 205
10 p1560 N84-20220
KINDEL, J. M.
Laser-plasma interaction at 10.6 microns
[DE84-001038] 04 p0541 N84-13560
Plasma simulation studies of electron acceleration for beat wave and single frequency-laser heating schemes
[DE84-009988] 20 p3305 N84-30992
KINDER, T. H.
Expendable bathythermograph (XBT) measurements in the Western Alboran Sea, October 1982
[AD-A133939] 06 p0084 N84-15748
Hydrographic measurements in the western Arlboran Sea, October 1982
[AD-A143588] 22 p3627 N84-32985
KINDERVATER, G. A. P.
Parallel algorithms in combinatorial optimization: An annotated bibliography
[MC-BW-189/93] 07 p1058 N84-16853
KINDL, M. R.
Design and implementation of a BASIC cross-compiler and virtual memory management system for the TI-59 programmable calculator
[AD-A132172] 04 p0577 N84-13808
KINDLE, C. H.
Compendium of selected methods for sampling and analysis at geothermal facilities
[PB84-199926] 22 p3565 N84-32579
KINDLE, E. C.
Development and operation of a real-time data acquisition system for the NASA, Langley Research Center Differential Absorption Lidar
[NASA-CR-173397] 12 p1918 N84-22495
KINDLE, J. C.
Sampling strategies and four-dimensional assimilation of altimetric data for ocean monitoring and prediction
17 p2721 N84-27317
KINDYAK, A. S.
Passage of strong electromagnetic pulse through semiconductor in external magnetic field
18 p2824 N84-27930
KING, A. H.
Ion implantation metallurgy: A study of the composition, structure and corrosion behavior of surface alloys formed by ion implantation and ion beam mixing
[AD-A140713] 17 p2624 N84-26792
KING, D. A.
Modeling SO2 effects on the productivity and growth of plants
[DE83-010259] 07 p1027 N84-16655
KING, D. W.
The use and value of Defense Technical Information Center products and services
[AD-A130605] 01 p0161 N84-11061
KING, F. K.
Surface properties of metal-nitride and metal-carbide films deposited on Nb for RF superconductivity
[DE84-001491] 04 p0614 N84-14055
KING, G. B.
Saturated laser fluorescence in turbulent sooting flames at high pressure 11 p1612 N84-20551
KING, H. E.
A wideband low-sidelobe disc-o-cone antenna
[AD-A131440] 02 p0210 N84-11370
A wideband corner-reflector antenna for 240 to 400 MHz
[AD-A134281] 07 p0992 N84-16433
KING, H. M.
Thermal control surface experiment (S0069)
15 p2273 N84-24649
KING, J. C.
Modification of point defects in quartz for device applications
[DE84-002811] 07 p1082 N84-17036
KING, J. F.
Creep and tensile properties of alloy 800H-Hastelloy X weldments
[DE83-017067] 03 p0390 N84-12542
KING, J. G.
Molecule microscopy 22 p3681 N84-33337
KING, J. M.
Workshops for management of combat stress
[AD-P003283] 18 p2907 N84-28439
KING, J. S.
East Butte: A volcanic dome of the Eastern Snake River Plain, Idaho 13 p2079 N84-23475
KING, J. V.
Liquid hydrogen polygeneration system and process
[NASA-CASE-KSC-11304-1] 19 p3001 N84-29017
KING, J. W.
Ionospheric factors affecting the performance of HF sky-wave sea-state radars 06 p0868 N84-15656
KING, K. J.
Dependence of thermoluminescence output on temperature during irradiation for several thermoluminescence phosphors
[AD-A134940] 08 p1125 N84-17313
KING, L. D.
CONUS Loran-C error budget: Flight test
[AD-A139871] 15 p2259 N84-24568
CONUS (Continental United States) Omega/VLF data collection: Flight test
[AD-A140252] 16 p2446 N84-25688
KING, M. G.
The time it takes to see 24 p3914 N84-34782
Detecting camouflaged targets: Theory into practice
24 p3914 N84-34784
KING, N. S. P.
Nanosecond image-shuttering studies at Los Alamos National Laboratory
[DE84-001733] 06 p0830 N84-15405
KING, R. B.
Polyphosphorus compounds containing phosphorus-nitrogen bonds
[AD-A137722] 11 p1628 N84-20655
Residual stress measurements using shear-horizontal waves from electromagnetic acoustic transducers
[PB84-190636] 20 p3176 N84-30171
KING, R. J.
Physical modeling of EM propagation over nonhomogeneous terrain 03 p0364 N84-12370
Numerical modeling techniques for half-space (ground) problems 03 p0365 N84-12374
Microwave nondestructive evaluation of composites
[DE84-001777] 04 p0547 N84-13601
Computer assessment of electromagnetic means of detecting approaching cruise missile
[DE84-005115] 10 p1482 N84-19687
Physical modeling of EM propagation over nonhomogeneous terrain
[DE84-000178] 11 p1644 N84-20752
The wiper abrasion and rain erosion resistance of transparent materials and coatings for aircraft glazing
[AD-P003227] 17 p2596 N84-26640
Priority for empirical methods development
19 p3097 N84-29671
Performance of Beverage antennas at low angles
[DE84-011163] 20 p3175 N84-30164
A study of the high frequency limitations of series resonant converters
[NASA-CR-173868] 22 p3581 N84-32678
KING, R. M.
Synthesis of efficient structures for concurrent computation
[AD-A135892] 09 p1368 N84-18930
KING, R. W.
Mitigation of biofouling using coatings
[DE84-006112] 11 p1693 N84-21041
Development and flight evaluation of an augmented stability active controls concept with a small horizontal tail
[NASA-CR-165951] 19 p2967 N84-28805
KING, R. W. P.
Fields and currents and charges on obstacles in a parallel-plate simulator at selected frequencies and with pulse excitation
[AD-A132406] 04 p0520 N84-13418
KING, S. P.
The influence of aeroelastic stability requirements on helicopter design 02 p0171 N84-11127

KING, W.
Formation of surface layers during oxidation of a Fe-Mn-Si alloy
[DE83-009495] 03 p0354 N84-12302
Application of transverse-section analytical electron microscopy to the study of oxidation of metal alloys
[DE84-006415] 20 p3157 N84-30049

KINGBURY, E.
First order ball bearing kinematics
[NASA-TM-83592] 10 p1502 N84-19816

KINGERY, C. N.
Experimental and computational modeling of rarefaction wave eliminators suitable for the BRL 2.44 m shock tube
[AD-A131894] 03 p0338 N84-12194
Reflected overpressure impulse on a finite structure
[AD-A137259] 11 p1653 N84-20792

KINGSBURG, J. A.
Automated en route air traffic control algorithmic specifications. Volume 1: Trajectory estimation
[AD-A137088] 10 p1426 N84-19328

KINGSBURY, E.
The ball bearing as a rheological test device
[NASA-TM-83570] 08 p1166 N84-17591
Transient EHL effects in starved ball bearings
15 p2341 N84-25054

KINGSBURY, J. A.
Automated en route air traffic control algorithmic specifications. Volume 2: Airspace probe
[AD-A136850] 10 p1426 N84-19324

KINGSTON, D. P., III
The multiple device queueing system
[AD-A140429] 16 p2547 N84-26344

KINGSTON, R. H.
Broadband guided-wave optical frequency translator using an electro-optical Bragg array
[AD-D011164] 23 p3825 N84-34260

KINKEAD, A. K.
A high-gain 35 GHz free-electron laser amplifier experiment
[AD-A139593] 14 p2151 N84-23886

KINLOCH, A. J.
The locus of environmental crack growth in bonded aluminium alloy joints
[AERE-R-11069] 18 p2816 N84-27880

KINNA, M. A.
The Navy program to develop replacements for critical and strategic materials 23 p3704 N84-33478

KINNEY, J. H.
Defect production efficiencies in thermal neutron irradiated copper and molybdenum
[DE84-010993] 20 p3309 N84-31018

KINNISON, R. R.
Applied extreme-value statistics
[DE83-013347] 02 p0285 N84-11870

KINO, G. S.
Report of significant accomplishments. Joint services electronics program of the Edward L. Ginzton laboratory
[AD-A133360] 07 p0998 N84-16469
A theory for cross-coupling in ultrasonic transducer arrays
[DE84-010327] 20 p3189 N84-30259

KINOSHITA, K.
Influence of heat-treatment and physicochemical properties on the electrochemical oxidation of carbon blacks in phosphoric acid
[DE83-017744] 03 p0350 N84-12276
Technology base research project for electrochemical energy storage
[DE84-012248] 21 p3393 N84-31535
Technology Base Research Project for Electrochemical Energy Storage
[DE84-013877] 22 p3619 N84-32930

KINOSHITA, M.
Effects of applied pressure on hot-pressing of Beta-SiC
[NASA-TM-77397] 23 p3723 N84-33593

KINRA, V.
Resonant scattering of waves in random particulate composites 15 p2310 N84-24861

KINSER, D. L.
Effects of solar radiation on glasses
15 p2279 N84-24685

KINSEY, J. H.
The PDS for space telescope guide star selection system: Status and improvements
18 p2840 N84-28032

KINSLER, M. C.
Evaluation of a native vegetation masking technique
[E84-10108] 12 p1829 N84-21926

KINSLEY, K. C.
An analytical model for evaluating database update schemes 05 p0760 N84-14986

KINTER, J. L.
Barotropic studies of stationary extratropical anomalies in the troposphere 16 p2527 N84-26224

KINTER, T. M.
Signal processing in high data rate environments. Design tradeoffs in the exploitation of parallel architectures and fast system clock rates. An overview
09 p1401 N84-19151

KINTNER, P.
Project Waterhole III 05 p0640 N84-14210

KINTNER, P. M.
Plasma jet effects on the ionospheric plasma
05 p0639 N84-14202

KINYON, B. W.
Design and construction of deep tubesheet crevice devices for producing intergranular attack of heat transfer tubing
[DE83-902228] 01 p0045 N84-10287

KIOCK, R.
Evaluation of boundary layer measurements in two-dimensional compressible subsonic flow with a pressure gradient across the boundary layer
[ESA-TT-810] 16 p2440 N84-25653
The generation of higher levels of turbulence in the test section of the high speed cascade wind tunnel at Brunswick for simulation of turbomachinery conditions
[ESA-TT-815] 16 p2440 N84-25654

KIPARISOV, S. S.
Obtaining titanium carbide powder from titanium shavings 12 p1785 N84-21645

KIPARSKY, R. P. V.
Linguistics 22 p3684 N84-33359

KIPP, C. W.
Assessing contracting workforce requirements in the matrixed organization
[AD-P002760] 13 p2052 N84-23307

KIPP, G. B.
The leader of the Army acquisition workforce
[AD-P002762] 13 p2052 N84-23309

KIPP, H. W.
A study of leeside flow field heat transfer on Shuttle Orbiter configuration
[NASA-CR-172362] 22 p3540 N84-32410

KIPP, M. E.
Energy and statistical effects in the dynamic fragmentation of metal rings
[DE84-005456] 14 p2128 N84-23760

KIPPS, P.
Site computers 05 p0717 N84-14701

KIR, G. J.
Computer-aided analysis of reconstructability analysis of many-dimensional relations
[PB84-127935] 09 p1380 N84-19016

KIRBY, F. M.
SSME modifications for on-demand launch vehicles
20 p3136 N84-29914
LOX/CH4 for reusable high performance booster engines 20 p3138 N84-29926

KIRBY, J. T., JR.
Propagation of weakly-nonlinear surface water waves in regions with varying depth and current
[AD-A132593] 05 p0711 N84-14657

KIRBY, K. P.
Theoretical studies in molecular fragmentation: Processes, energetics and diagnostics
[AD-A134008] 05 p0743 N84-14884

KIRBY, P. B.
Drift mobilities by time-of-flight methods and time-dependent phototransport in the nanosecond regime in amorphous semiconductors
[DE84-014906] 22 p3666 N84-33241

KIRBY, R.
Sedimentation studies relevant to low-level radioactive effluent dispersal in the Irish Sea. Part 3: An evaluation of possible mechanisms for the incorporation of radionuclides into marine sediments
[IOS-178] 19 p3062 N84-29431

KIRBY, R. E.
Surface properties of metal-nitride and metal-carbide films deposited on Nb for RF superconductivity
[DE84-001491] 04 p0614 N84-14055

KIRBY, R. H.
Visual information transfer. 1: Assessment of specific information needs. 2: The effects of degraded motion feedback. 3: Parameters of appropriate instrument scanning behavior
[NASA-CR-173913] 22 p3633 N84-33020

KIRCHHOFF, V. W. J. H.
Are Northern Hemisphere tropospheric ozone densities larger?
[INPE-2910-PRE/423] 07 p1031 N84-16691
Tidal oscillations in the atmospheric sodium layer
[INPE-3008-PRE/454] 12 p1846 N84-22033
Basic elements of the tilting filter photometer
[INPE-3124-MD/026] 16 p2495 N84-26006
Basic elements of laser radar
[INPE-3123-MD/025] 16 p2497 N84-26021
Temperature oscillations and ozone correlations in the lower stratosphere of Natal (6 deg S)
[INPE-3116-PRE/512] 21 p3443 N84-31844
Barreira do Inferno: Five years of ozone research
[INPE-2974-PRE/437] 23 p3796 N84-34073

KIRCHMAYR, H.
Anisotropy and microstructure of Sm2(Co, Fe, Cu, Zr)17 magnetic materials
[AD-A131961] 03 p0352 N84-12291

KIRCHMEYER, H.
Oligomerization and butenolysis of olefins by metathesis: Contributions to a chemical use of industrial C4-olefins
[BMFT-FB-T-83-184] 10 p1457 N84-19518

KIRCHNER, M. R.
The software engineering prototype
[AD-A132612] 05 p0728 N84-14782

KIRCHOFF, M.
The Multiple System OFP Support (MSOS) system, a Pre-PMRT capability for evaluating tactical software
[AD-P003524] 21 p3330 N84-31128

KIRCHSCHLAGER, E.
Quantitative determination of aerosol concentrations by lidar with respect to various relative humidities
23 p3780 N84-33968

KIREYEV, V. I.
Mixed boundary-value problems pertaining to profile of supersonic nozzles and channels
17 p2645 N84-26919

KIRILLOVA, F. M.
Two-phase methods of solving canonical problem of linear programming 21 p3484 N84-32078

KIRIMOTO, T.
Scanning wind-vector scatterometers with two pencil beams 17 p2713 N84-27271

KIRIYA, G. S.
A mathematical model of the formation of powdered metal coatings on castings
[BLL-M-35598-(5828.4)] 19 p2991 N84-28955

KIRK, D. E.
A distributed signal processing architecture
[AD-A130227] 01 p0119 N84-10771

KIRK, E. J.
Environments for evaluating performance of C3I (Command, Control, Communications, and Intelligence) systems
[AD-P003237] 18 p2902 N84-28404

KIRK, H.
Magnetic field measurements of superconducting magnets for the colliding beam accelerator
[DE83-017351] 04 p0603 N84-13982

KIRK, J.
Self-consistent models for Coulomb heated X-ray pulsar atmospheres
[NASA-TM-85087] 02 p0307 N84-12012

KIRK, J. A.
Inertial energy storage hardware definition study (ring rotor)
[NASA-CR-175271] 10 p1529 N84-20015

KIRK, M. A.
Irradiation effects on the mechanical properties of composite organic insulators
[DE83-014703] 01 p0032 N84-10202

KIRK, R.
Satellite data relay and platform locating in oceanography. Report of the In Situ Ocean Science Working Group
[NASA-TM-85443] 12 p1860 N84-22116

KIRK, R. E.
Laser light scattering from density fluctuations in the Culham focus 10 p1584 N84-20383

KIRKHAM, H.
Effects of voltage control in utility interactive dispersed storage and generation systems
[NASA-CR-173730] 18 p2869 N84-28211

KIRKHAM, R. R.
Transport assessment: Arid task. Model verification studies
[DE84-000121] 04 p0555 N84-13653
Measurement of unsaturated flow below the root zone at an arid site
[DE84-006575] 15 p2359 N84-25158

KIRKHAM, W. R.
Crashworthiness: An illustrated commentary on occupant survival in general aviation accidents
[AD-A130198] 01 p0006 N84-10038

KIRKPATRICK, A.
Geomorphic clues to the Martian volatile inventory: Landslides 13 p2086 N84-23516

KIRKPATRICK, A. R.
Ionized cluster beam deposition
12 p1840 N84-21995

KIRKPATRICK, C. G.
LEC GaAs for integrated circuit applications
[NASA-CR-173267] 07 p1079 N84-17014

LSI/VLSI (Large Scale Integration/Very Large Scale Integration) ion implanted GaAs (Gallium Arsenide) IC processing
[AD-A139676] 15 p2328 N84-24979
LSI/VLSI (Large Scale Integration/Very Large Scale Integration) ion implanted GaAs (Gallium Arsenide) IC processing. Appendix A: Feasibility analysis of Gallium-Arsenide mask programmable functions and logic arrays for high performance communications systems
[AD-A139677] 15 p2328 N84-24980
LSI/VLSI (Large Scale Integration/Very Large Scale Integration) ion implanted GaAs (Gallium Arsenide) IC processing. Appendix B: Two-dimensional modeling of GaAs MESFET devices for integrated high-speed logic circuits
[AD-A139678] 15 p2328 N84-24981
Low power radiation hard GaAs RAM
[AD-A139930] 15 p2329 N84-24986

KIRKPATRICK, D.
A pioneer deep ocean mining venture
[PB84-199645] 21 p3433 N84-31780

KIRKPATRICK, D. L.
Flat-plate solar-collector performance data base and user's manual
[DE83-011993] 04 p0558 N84-13682

KIRKPATRICK, R. C.
Review of astrophysical research at Los Alamos
[DE83-017304] 04 p0620 N84-14091

KIRLIN, R. L.
Optimal delay estimation in a multiple sensor array having spatially correlated noise
[AD-A133810] 05 p0734 N84-14820

KIROL, L.
Thermomagnetic generator
[DE84-007685] 15 p2365 N84-25189

KIROLOUS, H. A.
Effect of magnetic bending on the high-frequency stability of the ELMO Bumpy Torus
[DE83-017177] 03 p0450 N84-12961

KIRSCHKE, L.
Damage mechanisms in damaged CFRP laminates
10 p1452 N84-19483

KIRSCHNER, C. E.
The Arctic platform in the national petroleum reserve in Alaska: Deposition, deformation and petroleum potential 14 p2164 N84-23959

KIRSCHNER, J.
Quantitative sputter profiling at surfaces and interfaces 06 p0816 N84-15314

KIRSCHSTEIN, M.
Utilization of light wave scales and opto-electronic transformers for measuring distortion and expansion
[ISD-309] 16 p2557 N84-26402

KIRSHIN, A. V.
New variant of evaluation of predicted petroleum and as reserves on genetic basis 17 p2703 N84-27219

KIRST, B.
Development of a redundant computer system for flight augmentation
[BMFT-FB-W-83-027] 10 p1431 N84-19356

KIRSTEN, P. W.
Predicted and flight test results of the performance, stability and control of the space shuttle from reentry to landing 01 p0022 N84-10136
Approach and landing characteristics of the space shuttle orbiter Learned, Pt. 1 p 637-651
01 p0023 N84-10143

KIRTON, P.
Name server design for distributed systems
[AD-A143634] 23 p3812 N84-34173

KIRZ, J.
X-ray holographic microscopy experiments at the Brookhaven synchrotron light source
[DE84-004289] 10 p1499 N84-19796

KISELEV, A. P.
Interfering elastic wave components
18 p2862 N84-28170

KISELEVSKIY, L.
Techniques and instruments for cosmonaut remote sensing 12 p1775 N84-21575

KISELEVSKIY, V. N.
Kinetic time-temperature equation for creep of heat-resistant alloys taking aging into account
23 p3708 N84-33504

KISELMAN, C. O.
The growth of plurisubharmonic functions in infinite domain 22 p3634 N84-33033

KISHI, H.
Low-inductance, dual-feed diode development
[DE84-000117] 04 p0527 N84-13465

KISHI, K.
Gas pressure sintering of Beta-Sialon with Z=3
[NASA-TM-77421] 14 p2129 N84-23785

KISHITANI, K.
Present state of research in Japan on toxicities of gases during fire 04 p0511 N84-13349

KISHKIN, S. T.
Carbide phases in high-temperature nickel-hafnium alloys 24 p3871 N84-34532

KISKIRAS, C. J.
Development of an impact- and solvent-resistant thermoplastic composite matrix
[NASA-CR-172285] 12 p1789 N84-21668

KISLYY, P. S.
Nitration of intermetallide TiAl3
12 p1785 N84-21646

KISODA, A.
Dense plasma focus research at the Institute of Laser Engineering, Osaka (Japan) 10 p1581 N84-20360

KISSEL, G. J.
ACOSS eleven (Active Control Of Space Structures), volume 1
[AD-A140025] 15 p2282 N84-24703
ACOSS eleven (Active Control Of Space Structures), volume 2
[AD-A140026] 15 p2282 N84-24704

KISSEL, J.
The ISPM dust experiment 09 p1262 N84-18239

KISSEL, L. D.
Direct measurement of the energy spectrum of an intense proton beam
[DE84-000457] 04 p0597 N84-13939
Tomographic technique in relativistic electron beam experiments
[DE84-000357] 04 p0598 N84-13949

KISSICK, W. A.
The use of burst transmission to increase communication range: A feasibility study
[PB84-111400] 08 p1147 N84-17467

KISSLER, H.
Metallurgy: Development of material recovery
16 p2465 N84-25795

KISTNER, O. C.
Temperature dependence of the electric-field gradient in Er metal
[DE83-015564] 03 p0454 N84-12989

KITAGAWA, Y.
Dense plasma focus research at the Institute of Laser Engineering, Osaka (Japan) 10 p1581 N84-20360

KITAY, S. D.
Peculiarities in determining small contents of atmospheric moisture by surface radio thermal sounding methods 17 p2707 N84-27241

KITAYAMA, Y.
Field trial of composite fiber-optic overhead ground wire 11 p1720 N84-21221

KITAZAWA, T.
An investigation of strip lines and fin lines with periodic stubs
[AD-A134430] 07 p0997 N84-16486

KITCHEN, L.
Image matching using generalized Hough transforms
03 p0394 N84-12569

KITROSSER, D. F.
Automatic real time ionogram scaler with true height analysis - artist
[AD-A135174] 08 p1187 N84-17732

KITSON, D. H.
Computer simulation of protein systems
10 p1559 N84-20214

KITSON, S. T.
Some results from a programme of research into the structure of vortex flow fields around missile shapes
03 p0323 N84-12111

KITTEL, P.
Thermal conductance measurements of pressed OFHC copper contacts at liquid helium temperatures
[NASA-TM-85861] 03 p0429 N84-12809
A helium-3 refrigerator employing capillary confinement of liquid cryogen 06 p0821 N84-15353
Design considerations for a HE-3 refrigerator for space applications
[NASA-TM-85973] 18 p2836 N84-28001
He-3 cooling systems for space
[NASA-TM-85985] 20 p3183 N84-30226

KITTL, P.
The statistical theory of the fracture of fragile bodies. Part 2: The integral equation method
[NASA-TM-77449] 19 p3035 N84-29250

KITTLE, J. L.
Hydrologic simulation program. FORTRAN: Development, maintenance and application
[PB84-168418] 16 p2511 N84-26114

KITTLER, J. V.
Pattern recognition and image processing review
[AD-B084815] 08 p1211 N84-17897

KITTLER, L. B.
Human reactions to transient electric currents, volume 8
[PB84-112895] 08 p1202 N84-17834

KIUTTU, G. F.
Beam propagation experimental study
[AD-A133310] 06 p0915 N84-15946

KIWAKI, S.
Influence of deflocculant on the isoelectric point of refractory powders: Considerations on the action of deflocculant
[NASA-TM-77364] 07 p0969 N84-16277

KJAU, E. C.
Distortions in frequency spectra of signals associated with sampling-pulse shapes
[DE84-701747] 24 p3896 N84-34672

KJELAAS, A. G.
Sea state monitoring and applications
08 p1176 N84-17665

KJELGAARD, S. O.
Langley high-lift research on a high-aspect-ratio supercritical wing configuration
18 p2784 N84-27665

KJELLGREN, J.
Informatics 1983: Signal processing
[FOA-A-30033-E] 15 p2321 N84-24932

KLAASSEN, C. A. J.
On estimating a parameter and its score function
[CWI-MS-R8402] 19 p3091 N84-29632

KLAASSEN, T.
Hundred years later: September 1883 - September 1983; annotated bibliography of the first Dutch North Pole expedition 1882-1883
[KNMI-83-02] 05 p0696 N84-14571

KLAES, D.
Radiation for box budgets 10 p1535 N84-20058

KLAMKA, J.
Microwave semiconductor equipment produced in Poland
[AD-A137598] 11 p1646 N84-20762

KLAMMER, H.
Economic roughing and finish milling with end mills made of high speed tool steel class HSSE: High cobalt alloyed 09 p1292 N84-18442

KLAMUT, C. J.
Superconducting properties of Nb3Sn multifilamentary wires fabricated by internal tin process
[DE83-018189] 06 p0925 N84-16011

KLANG, E. C.
Contact stresses in pin-loaded orthotropic plates
[NASA-CR-173475] 12 p1825 N84-21900
The stress distribution in pin-loaded orthotropic plates
17 p2678 N84-27059

KLANN, G. A.
Response of a small-turboshaft-engine compression system to inlet temperature distortion
[NASA-TM-83765] 23 p3694 N84-33414

KLANN, J. L.
Downsizing assessment of automotive Stirling engines
[NASA-TM-83468] 05 p0761 N84-14989

KLAPHECK, K.
Lidar observations of the plumes of incineration ships
23 p3780 N84-33967

KLAPPER, H.
Characterization by X-ray topography of laser-induced damage in potassium dihydrogen phosphate crystals
[DE83-012045] 03 p0454 N84-12985

KLARMAN, A. F.
The use of fuel additives to control plume opacity of turbine engine test cells
[AD-A130777] 01 p0053 N84-10339

KLASSINA, S. Y.
Spatiotemporal structure of quanta of industrial work and its physiological basis 18 p2897 N84-28379

KLAUS, E. E.
Status of new direction of liquid lubricants
14 p2154 N84-23905

KLAYMAN, J.
Learning in a probabilistic environment: A new approach, and some preliminary findings
[AD-A137031] 10 p1551 N84-20162

KLEBANOFF, L. E.
Direct determination of surface structures from photoelectron diffraction
[DE84-002572] 05 p0663 N84-14360
Angle-resolved photoemission extended fine structure
[DE84-002899] 08 p1236 N84-18080

KLEBANOV, I. Y.
High-resistance measuring standards of electrical resistance 18 p2826 N84-27939

KLEBANOV, Y. D.
Matched evaporation of alloys in a vacuum
24 p3873 N84-34543

KLEBESADEL, R. W.
Inverse comptonization vs. thermal synchrotron
[DE84-001039] 04 p0622 N84-14105
The 3-10 keV and 0.1- to 2-MeV observations of 4 gamma-ray bursts
[DE84-001334] 05 p0766 N84-15022

Log N-log S in inconclusive
[NASA-CR-173153] 07 p1093 N84-17111
Three precise gamma-ray burst source locations
[NASA-TM-86132] 22 p3680 N84-33332

KLECKER, B.
Iron charge states observed in the solar wind
03 p0473 N84-13112
Survey of He(+)/He(2+) abundance ratios in energetic particle events 03 p0474 N84-13117

KLEHR, J. T.
A four-dimensional thunderstorm model for flight simulators
[AD-P003492] 21 p3514 N84-32258

KLEINMAN, D. L.
Human decisionmaking in dynamic environments with increasing information processing demands
[AD-P002884] 13 p1979 N84-22845

KLEINMAN, J.
An atomic oxygen facility for studying polymer materials for spacecraft applications 24 p3863 N84-34482

KLEIN, D. E.
Finite-element analysis of incompressible laminar and turbulent flow with heat transfer
[DE84-000042] 04 p0536 N84-13523

KLEIN, E.
Development of a wind tunnel test section with adaptive flexible walls for three-dimensional flow
[BMFT-FB-W-83-026] 10 p1495 N84-19776

KLEIN, F.
Development of a new charger system
[BMFT-FB-T-83-305] 15 p2328 N84-24977

KLEIN, F. F.
Recent advances in variable speed electrical generator systems for large wind turbines
[DE84-001833] 06 p0830 N84-15404

KLEIN, F. H.
A microprocessor-based range meter for electric vehicles
[DE83-902237] 02 p0304 N84-11993

KLEIN, G.
Feasibility study of advanced optical techniques for ocean color measurement
[MBB-R3700/292] 12 p1637 N84-21974
Agricultural waste water reverse osmosis pretreatment
[PB84-153543] 17 p2725 N84-27347

KLEIN, G. A.
Using comparison-based methods for predicting and designing
[AD-P003364] 18 p2913 N84-28477

KLEIN, H. H.
Gifford-McMahon refrigerator with split cold head
06 p0820 N84-15346

KLEIN, H. W.
Integrated filters in MOS technology
[BMFT-FB-T-83-194] 10 p1590 N84-20419

KLEIN, J.
Waste water treatment with the aid of the addition of activated carbon into the aeration station and reactivation of the spent carbon
[BMFT-FB-T-83-186] 07 p1028 N84-16661
Requirements for a transformerless power conditioning system
[NASA-CR-173742] 18 p2833 N84-27981

KLEIN, J. P.
Effects of assuming independent component failure times, if they are actually dependent, in a series system
[AD-A136567] 09 p1327 N84-18667

KLEIN, K.
In-flight accuracy and coverage tests of ESM- and ECM-systems 24 p3849 N84-34412

KLEIN, K. E.
Circadian rhythms and sustained operations
11 p1697 N84-21067
The research program of the Institute for Aerospace Medicine 17 p2744 N84-27419

KLEIN, L. W.
Large-scale interplanetary magnetic fields: Voyager 1 and 2 observations between 1 AU and 9.5 AU
[NASA-TM-86068] 18 p2952 N84-28712

KLEIN, M.
Hematologic and biochemical data on healthy individuals participating in a physical conditioning program
[AD-A140464] 16 p2536 N84-26278

KLEIN, M. B.
Phase conjugate optics
[AD-A141960] 20 p3299 N84-30951

KLEIN, M. J.
183 GHz water line variation: An energetic outburst in orion KL
[NASA-TM-85956] 16 p2574 N84-26522

KLEIN, N.
Liquid propellant ignition studies
13 p1949 N84-22670

KLEIN, R. K.
Planar channeling radiation from relativistic positrons and electrons in LiF
[DE84-002600] 07 p1081 N84-17033

KLEIN, R. W.
Control definition study for advanced vehicles
[NASA-CR-3738] 07 p0958 N84-16212

KLEIN, S.
Laboratory evaluation of the steady-state and part load performance of absorption type heating and cooling equipment
[PB84-182146] 21 p3376 N84-31426

KLEIN, S. A.
A correction factor to f-chart predictions of active solar fraction in active-passive heating systems
16 p2513 N84-26127

KLEIN, V.
Applications of model structure determination to flight test data 11 p1616 N84-20576

KLEIN, W.
Computer symbol generator and control panel for an integrated cockpit color display information system
[BMFT-FB-W-83-007] 02 p0179 N84-11169

KLEINBERG, L. L.
Tuned analog network
[NASA-CASE-GSC-12650-1] 05 p0673 N84-14421
Low noise tuned amplifier
[NASA-CASE-GSC-12567-1] 13 p1985 N84-22687

KLEINE-TEBBE, A.
Practical experience during installation of the large multiaxes vibration test facility SAMSON
03 p0339 N84-12199

KLEINHANSS, G.
Sustained military operations with particular reference to prolonged exercise 11 p1699 N84-21081

KLEINHOLZ, A. F.
An analysis of smooth and axially finned, rotating heat pipe condensers
[AD-A132141] 04 p0534 N84-13509

KLEINJAN, H.
Rapid solidification processing of Al-Cu-Li-Mg alloys
[VTH-LR-380] 10 p1464 N84-19560

KLEINOSKY, P.
Techniques for sensor-based diagnosis
[AD-A133297] 06 p0896 N84-15814

KLEINROCK, L.
Advanced teleprocessing systems
[AD-A133525] 06 p0824 N84-15375
Advanced teleprocessing systems
[AD-A133554] 06 p0825 N84-15377
Advanced teleprocessing systems
[AD-A133555] 06 p0825 N84-15378
Advanced teleprocessing systems
[AD-A137944] 11 p1644 N84-20747

KLEINSCHMIDT, M.
Initial alignment and augmentation of the ARINC 705 strapdown AHRS LTR-81 16 p2447 N84-25699

KLEINSTEIN, B. H.
Biological Effects of Nonionizing Electromagnetic Radiation, volume 7, number 2-4, July - December 1982
[AD-A134674] 08 p1197 N84-17805
Biological effects of nonionizing electromagnetic radiation. Volume 8, Number 1: A digest of current literature
[AD-A139296] 15 p2380 N84-25283

KLEINWAECHTER, H.
Recent advances in design of low cost film concentrator and low pressure free piston Stirling engines for solar power 18 p2875 N84-28253

KLEINWAECHTER, J.
Recent advances in design of low cost film concentrator and low pressure free piston Stirling engines for solar power 18 p2875 N84-28253

KLEITMAN, D. J.
Application of asymptotic methods of theoretical computer science and combinatorics to problems in the design of VLSI circuits
[AD-A142262] 19 p3090 N84-29617

KLEMAN, B.
Informatics 1983: Signal processing
[FOA-A-30033-E] 15 p2321 N84-24932

KLEMAS, V.
Evaluation of spatial, radiometric and spectral thematic mapper performance for coastal studies
[E84-10018] 02 p0237 N84-11555
Evaluation of spatial, radiometric and spectral Thematic Mapper performance for coastal studies
[E84-10093] 10 p1522 N84-19964
Evaluation of spatial, radiometric and spectral Thematic Mapper performance for coastal studies
[E84-10118] 14 p2167 N84-23978
Evaluation of spatial, radiometric and spectral Thematic Mapper performance for coastal studies
[E84-10159] 17 p2709 N84-27251
Aboveground biomass estimation in a tidal brackish marsh using simulated Thematic Mapper spectral data
20 p3214 N84-30419
Parametric and nonparametric analysis of LANDSAT TM and MSS imagery for detecting submerged plant communities 20 p3215 N84-30424

KLEMETSON, R. W.
Cost evaluation of space station propulsion system options 20 p3139 N84-29932
Thrust level requirements for space station on-orbit propulsion 20 p3140 N84-29935

KLEMM, F.
Reports from the German Meteorological Service. No 21: The evolution of meteorological observations in Austria, including Bohemia and Moravia up to the year 1700
[ISBN-3-88148-208-3] 14 p2178 N84-24046

KLEMOLA, A.
The occultation of AG+29 deg 398 by 98 Minerva
[NASA-CR-173827] 20 p3319 N84-31066

KLEPPNER, D.
Atomic resonance and scattering
22 p3681 N84-33339

KLER, T. J.
Characterization of selected properties for alumina-aluminum metal matrix composites
[AD-A135580] 09 p1283 N84-18377

KLETTE, R.
Analysis of data flow for SIMD (Single Instruction Multiple Data) systems
[AD-A133248] 06 p0895 N84-15812
Degrees of adjacency or surroundedness
[AD-A143528] 22 p3646 N84-33118

KLEVGARD, P. A.
Thermocouple simulation: A calibration technique
[DE84-012408] 21 p3406 N84-31606

KLEYMENOV, V. Y.
Forging and stamping nonferrous metals. Handbook
[AD-A141689] 21 p3366 N84-31351

KLIER, K.
Symposium on Advanced Methods of Catalyst Characterization, November 1-2, 1982
[AD-A136209] 09 p1280 N84-18359

KLIGMAN, D.
Bioassay, isolation and studies on the mechanism of action of neurite extension factor
09 p1359 N84-18881

KLIMA, R.
A simple mathematical model for heat transfer and its application for continuous type reheating furnaces
01 p0077 N84-10503

KLIMACH, H. W.
The APL RCS (Radar Cross Section)/statistics code description, illustrations of output, and user's guide
[AD-A142929] 21 p3386 N84-31490

KLIMAS, A. J.
Detection of bump-on-tail reduced electron velocity distributions at the electron foreshock boundary
[NASA-TM-86067] 12 p1922 N84-22518

KLIMAS, P. C.
Jet spoiler arrangement for wind turbine
[DE84-011303] 21 p3434 N84-31787

KLIMENKO, I. S.
Holographic image subtraction by recording in Fourier plane and space filtration with thin light beam
20 p3289 N84-30882

KLIMENKOV, A. T.
Belorussia's industry robotization program discussed
14 p2188 N84-24111

KLIMOV, A. A.
Turbulent boundary layer at plate with suction at various angles 17 p2648 N84-26938

KLIMOV, D. M.
Mechanics of rigid gyroscopic systems
17 p2643 N84-26910

KLIMOV, S. I.
Electron acceleration in the front of intense collisionless shock waves
[PR-813] 08 p1154 N84-17511

KLIMOV, S. P.
Measurement of flux density of sound energy
17 p2638 N84-26874

KLINE, D. L.
Evaluation of insecticides, repellents, and other approaches to the control of coastal stand flies, culicoides spp
[AD-A141132] 19 p3063 N84-29435

KLINE, E. A.
Cleavage of aromatic carbon-carbon bonds
[DE84-010161] 22 p3543 N84-32432

KLING, T. R.
Airborne penetration of radioactive clouds
[AD-A135848] 09 p1361 N84-18894

KLINGER, L. M.
Nickel diffusion along single inter-phase boundaries
[BLL-M-35109-(5828.4)] 01 p0040 N84-10254

KLINGER, P. L.
Translation of field-reverse configurations in the FRX C/T experiment
[DE84-007489] 14 p2230 N84-24376
KLINGER, R.
Development of a process for manufacturing high voltage CMOS circuits and of a technology for gold bump plating for use in integrated display systems
[BMFT-FB-T-83-280] 10 p1488 N84-19732
KLINGLER, S. L.
Specialized common carriers: Long distance alternatives for military installations
[AD-A140596] 17 p2653 N84-26967
KLINGLESMITH, D. A.
Astronomical Microdensitometry Conference
[NASA-CP-2317] 18 p2839 N84-28020
KLINGNER, P. L.
Ohmic heating to 100-eV and helicity injection in CTX
[DE84-007494] 20 p3304 N84-30986
KLINK, W. H.
Configuration space Faddeev calculations
[DE84-006492] 11 p1730 N84-21289
KLINKHACHORN, P.
Synthesis algorithm for minimal components in T-ulm networks
[AD-P002379] 14 p2196 N84-24170
KLINT, P.
A survey of three language-independent programming environments
[MC-IW-240/83] 13 p2029 N84-23160
KLIORIN, N. I.
Periods of activity cycles in late-type stars
[NASA-TM-77297] 07 p1091 N84-17094
KLIPPEL, E.
Operational demonstration of a field of high performance flat plate collectors with isothermal heat transport
[BMFT-FB-T-83-2] 15 p2362 N84-25171
KLIPPING, G.
Optimized He 2 cooling systems for space application. Behavior and handling of superfluid helium at G = 0, phase 1
[BMFT-FB-W-83-008] 02 p0207 N84-11349
Optimized He 2 cooling systems for space application. Behavior and handling of superfluid helium at g = 0, phase 2
[BMFT-FB-W-84-006] 19 p3025 N84-29185
KLITGORD, K. D.
Panel 1A: Geologic studies related to oil and gas development in the EEZ 18 p2866 N84-28194
KLOBUKOWSKA, J.
Plasma focus evolution in time as seen from its neutron, gamma and X ray activities 10 p1582 N84-20365
KLOCK, W.
Evaluation of microcomputer energy analysis programs
[AD-A144684] 24 p3942 N84-34959
KLOEPPEL, V.
Wind energy converter GROWIAN 2
[BMFT-FB-T-84-063] 19 p3051 N84-29364
KLONTZ, G. W.
Aquaculture techniques: A production forecasting model for aquaculture systems
[PB83-221713] 01 p0112 N84-10730
KLOOSTER, L. A.
An investigation of experimental techniques for obtaining particulate behavior in metallized solid propellant combustion 13 p1947 N84-22659
KLOP, J. W.
A proof rule for restoring logic circuits
[MC-IW-227/83] 07 p1000 N84-16484
Algebraic tools for system construction
[MC-IW-234/83] 07 p1053 N84-16820
An abstraction mechanism for process algebra
[MC-IW-231/83] 07 p1066 N84-16916
An algebraic specification method for processes over a finite action set
[MC-IW-232/83] 07 p1066 N84-16917
The algebra of recursively defined processes and the algebra of regular processes
[MC-IW-235/83] 07 p1066 N84-16918
Algebra of communicating processes with abstraction
[CWI-CS-R8403] 17 p2754 N84-27485
KLOPFER, G. H.
Research on topics in perturbation methods, transonic flow theory, numerical analysis and adaptive grid generation
[AD-A143641] 23 p3833 N84-34315
KLOS, Z.
Plasma processes in the region of electron beam injection from a high altitude payload 05 p0637 N84-14194
Modeling of beam-plasma discharge in the laboratory 05 p0638 N84-14200
Plasma processes caused by an electron beam injected from a high altitude rocket probe. Part 1: Neutralization processes
[IWF-8302] 17 p2728 N84-27363
Plasma processes caused by an electron beam injected from a high altitude rocket probe. Part 2: Studies of beam-plasma discharge
[IWF-8303] 17 p2728 N84-27364
KLOSTER, K.
Eddy studies during Marginal Ice Zone Experiment (MIZEX) 83 by ship and remote sensing observations 23 p3772 N84-33914
Mapping the Fram Strait ice edge using AVHRR imagery and NOAA satellite orbital data 23 p3773 N84-33915
KLOSTERMAN, A. L.
A geometric modeler based on a dual-geometry representation polyhedra and rational b-splines 12 p1869 N84-22181
KLOSTERMAN, E.
Investigation of wave rotor turbofans for Cruise Missile engines, volume 1
[AD-A131167] 02 p0180 N84-11174
KLOSTERMEYER, J.
VHF radar measurements during MAP/WINE 17 p2691 N84-27135
KLUEH, R. L.
Tensile behavior of three commercial ferritic steels after low-temperature irradiation
[DE83-014044] 02 p0195 N84-11264
Microstructure of 9 Cr-1 MoVNb steel irradiated to 40 dpa at elevated temperatures in HFIR
[DE84-000339] 04 p0501 N84-13285
A comparison of the irradiated tensile properties of a high-manganese austenitic steel and type 316 stainless steel
[DE84-000260] 04 p0502 N84-13294
Effect of specimen size and nickel content on the impact properties of 12 Cr-1 MoVW ferritic steel
[DE84-003270] 08 p1134 N84-17377
Mechanical properties of a modified 2 1/4 Cr-1 Mo steel for pressure vessel applications
[DE84-004105] 09 p1285 N84-18394
KLUESENER, M. F.
The effects of the space environment on damping materials and damping designs on flexible structures 08 p1110 N84-17217
KLUG, D. L.
Investigation of the crystallization kinetics of an incongruent melting salt hydrate under metastable conditions
[DE84-008666] 19 p3112 N84-29771
KLUG, H. G.
The Airbus: The state-of-the-art today, and future developments
[MBB-UT-22-83-O] 16 p2562 N84-26437
KLUG, R.
Investigation of wave rotor turbofans for Cruise Missile engines, volume 1
[AD-A131167] 02 p0180 N84-11174
KLUGE, M.
Desulfurization of hot reducing gas by means of metal oxides in a fixed bed reactor
[BMFT-FB-T-84-015] 16 p2463 N84-25783
KLUGER, J. W.
Investigation of the generation of regular waves by a sliding valve pneumatic wave generator
[CSIF-RR-553] 04 p0543 N84-13579
KLUMP, M.
System for Application oriented Requirement Specification (SARS)
[BMFT-FB-DV-83-006] 12 p1885 N84-22286
KLYNNING, L.
The blue-green spectrum of gaseous Pb2 wave numbers and constants of the FOu+ - XOg+ system
[USIP-84-06] 20 p3151 N84-30009
KNABLE, N.
NAVSTAR GPS simulation and analysis program
[PB84-134402] 10 p1427 N84-19332
KNAEUPER, A. E.
A model of human problem solving in dynamic environments
[AD-A140862] 17 p2748 N84-27446
KNAP, A. H.
Transport and fate of acid rains out of North America
[DE83-015819] 02 p0244 N84-11597
KNAPIK, J. J.
The energy cost and heart rate response of trained and untrained subjects walking and running in shoes and boots
[AD-A131420] 01 p0113 N84-10735
Physiological, biomechanical, and medical aspects of lifting and repetitive lifting: A review
[AD-A136689] 10 p1547 N84-20140
KNAPP, C. F.
Response of the cardiovascular system to vibration and combined stresses
[AD-A142166] 19 p3066 N84-29450
KNAPP, D. W.
A data structure for VLSI synthesis and verification
[AD-A137880] 11 p1647 N84-20769
KNAPP, F. F., JR.
Nuclear-medicine
[DE84-000346] 04 p0571 N84-13759
KNAPP, G.
Voice preprocessing system incorporating a real-time spectrum analyzer with programmable switched-capacitor filters
[AD-A137999] 12 p1805 N84-21769
KNAPP, G. P.
Hydrographic station data of five surveys of the beta-triangle in the eastern North Atlantic, 1978 - 1981
[PB84-100674] 08 p1196 N84-17800
KNAPP, J. A.
Microstructures of pulse-melted Fe-Ti-C alloys
[DE83-015213] 01 p0155 N84-11024
Measurement of precipitate nucleation times in molten metals by pulsed surface melting
[DE84-002383] 05 p0656 N84-14311
Line-source E-beam crystallization of silicon-on-insulator films
[DE84-003218] 07 p0999 N84-16478
Comparison of thermal, line-source electron beam and CW laser annealing for the fabrication of ErSi/sub 2 Schottky barrier on Si
[DE84-003105] 07 p1081 N84-17031
Friction and wear reduction of 440C stainless steel by ion implantation
[DE84-003255] 08 p1133 N84-17371
KNAPP, J. J.
Study of the characteristics of high pressure proportional counters for the detection of radioactive gases
[AD-A135803] 09 p1280 N84-18356
KNAPP, K.
Development and support structures for high-power solar arrays 19 p3048 N84-29336
KNAPP, M. I.
Operating costs of aircraft and flight simulators
[AD-A144241] 24 p3969 N84-35132
KNAPTON, J. R.
Water resources data for Montana, water year 1982. Volume 1: Hudson Bay Basin, Missouri River Basin
[PB84-117506] 09 p1339 N84-18749
Water resources data for Montana, water year 1982. Volume 2: Columbia River Basin
[PB84-118561] 09 p1340 N84-18752
KNAUB, J. R., JR.
On the Lehmann power analysis for the Wilcoxon Rank Sum Test
[AD-P003844] 24 p3939 N84-34932
KNAUS, A.
A technique to determine lift and drag polars in flight 24 p3848 N84-34402
KNAUSS, W. G.
Workshop on Dynamic Fracture held at Pasadena, California on 17-18 February 1983
[AD-A140194] 16 p2466 N84-25806
Processes controlling the dynamic fracture of brittle solids
[AD-P003108] 16 p2467 N84-25813
Viscoelastic effect on dynamic crack propagation in Homalite 100
[AD-P003115] 16 p2468 N84-25820
KNECHTLI, R. C.
Recent advances in LPE GaAs-based solar cells 19 p3044 N84-29310
KNEELAND, B. T.
The impact of the F/A-18 aircraft digital flight control system and displays on flight testing and safety 06 p0777 N84-15091
KNEFF, D. W.
Comparison of measured and calculated helium production in nickel using newly evaluated neutron cross sections for (59)Ni
[DE84-000565] 04 p0611 N84-14035
KNEIZYS, F. X.
Air mass computer program for atmospheric transmittance/radiance calculation: FSCATM
[AD-A132108] 04 p0563 N84-13712
Atmospheric transmittance/radiance: Computer code LOWTRAN 6. Supplement: Program listings
[AD-A137689] 11 p1706 N84-21123
Atmospheric transmittance/radiance: Computer code LOWTRAN 6
[AD-A137786] 11 p1707 N84-21126
KNEPP, D. L.
The effects of aperture antennas after signal propagation through anisotropic ionized media
[AD-A138266] 12 p1807 N84-21781

KNEPPER, D. H., JR.
Application of Heat Capacity Mapping Mission data to regional geologic analysis for mineral and energy resource evaluation
[E84-10078] 07 p1021 N84-16625

KNEPPERS, H. A. W. M.
The covariant classification of two-dimensional smooth commutative formal groups over an algebraically closed field of positive characteristic
[MATH-CENTRE-TRACTS-157] 08 p1223 N84-17989

KNEPTON, J.
Effects of pulsed microwaves at 1.28 and 5.62 GHz on Rhesus monkeys (Macaca mulatta) performing an exercise task at three levels of work
[AD-A132057] 03 p0413 N84-12704
A restraint chair with rowing-like movement for exposing exercising nonhuman primates to microwave irradiation
[AD-A132047] 03 p0413 N84-12705
Effect of pulsed 5.62 GHz microwaves on squirrel monkeys (Saimiri sciureus) performing a repeated acquisition task
[AD-A132045] 03 p0413 N84-12706
The use of a small digital computer for on-line behavioral experiments
[AD-A136975] 13 p2025 N84-23126

KNICKMEYER, E. H.
Physical geodesy 10 p1520 N84-19950

KNIFFEN, D. A.
A study of the diffuse galactic gamma radiation
[NASA-TM-86055] 08 p1247 N84-18151

KNIGHT, C. D.
Static analysis package
[REPT-71.3794] 12 p1884 N84-22283

KNIGHT, C. E., JR.
Analytical model of strength loss in filament wound spherical vessels
[DE84-010213] 19 p2986 N84-28923

KNIGHT, D. D.
Theoretical investigation of three-dimensional shock wave-turbulent boundary layer interactions, part 2
[AD-A138722] 13 p1990 N84-22916

KNIGHT, D. R.
Proceedings of the 3rd Tripartite Conference on Submarine Medicine: France, United Kingdom and the United States
[AD-A133150] 06 p0689 N84-15777

KNIGHT, D. S.
Structure of glasses containing transition metal ions
[DE84-004211] 10 p1468 N84-19591

KNIGHT, J. C.
PASCAL/48 reference manual
[NASA-TM-85752] 08 p1211 N84-17900
The implementation and use of Ada on distributed systems with high reliability requirements
[NASA-CR-175413] 12 p1876 N84-22228
The implementation and use of Ada on distributed systems with high reliability requirements
[NASA-CR-173841] 21 p3463 N84-31954

KNIGHT, N. F., JR.
A modified modal method for nonlinear dynamic analysis of structures 16 p2501 N84-26052

KNIGHT, P.
Ionospheric propagation in the L. F. broadcasting band
[BBC-RD-1983/15] 05 p0685 N84-14375
Radio-frequency detonation hazards: Multiple-transmission safety assessment of a detonator loop that may be resonant
[BBC-RD-1983/11] 05 p0666 N84-14380

KNIGHTLY, G. H.
A selection principle in Benard-type convection
[NASA-CR-173869] 21 p3398 N84-31559

KNIGHTS, M.
XeF pumped Tm:YLF laser scaling
[AD-A140004] 15 p2339 N84-25041

KNIZE, R. J.
Method of enhancing selective isotope desorption from metals
[DE84-011031] 20 p3156 N84-30044

KNOBLOCH, V.
Etching of moldavites under natural conditions
[NASA-TM-77334] 05 p0764 N84-15014

KNOBLOCHOVA, Z.
Etching of moldavites under natural conditions
[NASA-TM-77334] 05 p0764 N84-15014

KNOCHE, H.
Impact and vibration testing of a modified UH-1 crew seat
[AD-A130279] 01 p0117 N84-10760

KNOCK, R. H.
Flow visualization study of natural convection from a heated protrusion in a liquid filled rectangular enclosure
[AD-A140696] 17 p2668 N84-27012

KNOEDEL, K.
Further development of magnetotelluric methods for the exploration of the pre-Zechstein by improvement of the data processing codes, data acquisition and interpretation techniques
[BMFT-FB-T-83-190] 07 p1023 N84-16638

KNOELL, A. C.
Slotted waveguide array antennas for spaceborne SAR applications 07 p0987 N84-16397

KNOLL, J.
A dynamic analysis of rotary combustion engine seals
[NASA-TM-83536] 05 p0688 N84-14519

KNOLL, J. S.
The NESDIS-SEL Lear aircraft instruments and data recording system
[NOAA-TR-NESDIS-9] 17 p2607 N84-26698

KNOLL, R. H.
Downsizing assessment of automotive Stirling engines
[NASA-TM-83468] 05 p0761 N84-14989

KNOLL, R. W.
Microstructure and phase composition of sputter-deposited zirconia-yttria films
[DE84-003352] 07 p1082 N84-17039

KNOOP, P. A.
JOVIAL language control procedures with a view toward Ada (Trademark)
[AD-P003522] 21 p3330 N84-31126

KNOROVSKY, G. A.
Strain rate effects on ductile/brittle transitions in steels
[DE83-016906] 03 p0355 N84-12308

KNORR, G. E.
Theoretical aspects of mirror fusion
[DE84-009139] 20 p3305 N84-30988

KNOTT, K.
Observations of the GEOS-2 equilibrium potential and its relation to the ambient electron energy distribution 08 p1116 N84-17256
Comparison of thermal plasma observations on SCATHA and GEOS 08 p1117 N84-17262
Methods for keeping a conductive spacecraft near the plasma potential 08 p1119 N84-17277
Interactions between a large body and its environment in a low polar orbit
[AD-P002111] 16 p2523 N84-26197

KNOTT, P. R.
Free jet feasibility study of a thermal acoustic shield concept for AST/VCE application: Single stream nozzles
[NASA-CR-3758] 19 p3096 N84-29661
Experimental investigation of shock-cell noise reduction for single-stream nozzles in simulated flight, comprehensive data report. Volume 1: Test nozzles and acoustic data
[NASA-CR-168234-VOL-1] 22 p3652 N84-33148
Experimental investigation of shock-cell noise reduction for single-stream nozzles in simulated flight, comprehensive data report. Volume 2: Laser velocimeter data
[NASA-CR-168234-VOL-2] 22 p3652 N84-33149
Experimental investigation of shock-cell noise reduction for single-stream nozzles in simulated flight, comprehensive data report. Volume 3: Shadowgraph photos and facility description
[NASA-CR-168234-VOL-3] 22 p3652 N84-33150

KNOUSE, S. T.
Effect of boundary conditions on the damping characteristics of a randomly excited cast nickel-aluminum bronze specimen at low stress levels
[AD-A143685] 23 p3761 N84-33837

KNOWLTON, D. E.
Vitrification of highly-loaded SDS zeolites
[DE83-006198] 02 p0292 N84-11915

KNOWLTON, M.
Understanding picture-text instructions
[AD-A139746] 15 p2382 N84-25287

KNOWLTON, T. M.
Effects of system and geometrical parameters on the flow of Class-B solids in overflow standpipes
[DE84-013948] 22 p3594 N84-32762

KNOX, C. A.
Vitrification of highly-loaded SDS zeolites
[DE83-006198] 02 p0292 N84-11915

KNOX, C. E.
A comparison of two position estimate algorithms that use ILS localizer and DME information. Simulation and flight test results
[NASA-TP-2281] 08 p1102 N84-17165
Application of fuel/time minimization techniques to route planning and trajectory optimization 11 p1616 N84-20578

KNOX, F. S., III
In-flight evaluation of 2 molecular sieve oxygen concentration systems in US Army aircraft (JUH-1H and JU-21G)
[AD-A140634] 17 p2748 N84-27443

KNOX, R. E.
Development of a generalized human-machine interface
[AD-P002888] 13 p1979 N84-22849

KNOX, S. O.
Ohmic heating to 100-eV and helicity injection in CTX
[DE84-007494] 20 p3304 N84-30986

KNUCKEY, P. J.
Concentration of sulphuric acid: Premature failure of Bamag pots
[MRL-R-885] 08 p1123 N84-17301

KNUDSEN, H. K.
Linked state machines
[DE83-4000123] 03 p0419 N84-12736
State variable method of fault tree analysis
[DE84-006007] 12 p1824 N84-21891

KNUDSEN, L. K.
Energy efficient engine: Low-pressure turbine subsonic cascade component development and integration program
[NASA-CR-165592] 18 p2795 N84-27738

KNUDSON, D.
Potential transport errors in single-layer wind fields
[DE84-003446] 11 p1675 N84-20932
Meteorologically induced uncertainty in LRT modeling
[DE84-003444] 11 p1676 N84-20935

KNUETTEL, B.
Development and construction of an apparatus based on the principle of multidimensional nuclear magnetic resonance for the formation of images of organs and parts of the body
[BMFT-FB-T-83-102] 02 p0266 N84-11752

KNUTSON, L.
EMC (electromagnetic compatibility) system test and analysis interface
[AD-A136064] 09 p1303 N84-18519

KNYAZ, A. I.
Realization of high-frequency filters according to theory of guided spherical waves 21 p3378 N84-31438

KNYSTAUTAS, R.
Hydrogen-air detonations
[DE83-009289] 03 p0350 N84-12278
Influence of diluents and inhibitors on detonations
[DE84-006300] 22 p3548 N84-32463

KO, C.
A study of atmospheric transmission in the wavelength regions of 0.35 micrometers to 14 micrometers
[AD-A135721] 09 p1302 N84-18510

KO, H.
Adaptive noise cancellation in neuromagnetic measurement systems
[AD-A132547] 05 p0684 N84-14494

KO, H. W.
Anomalous propagation and radar coverage through inhomogeneous atmospheres 15 p2326 N84-24967

KO, H. Y.
The strength and behavior of steel fiber-reinforced concrete under combined tension-compression loading
[AD-A136124] 09 p1334 N84-18708

KO, K.
Review of ionospheric VLF and ELF generation 05 p0634 N84-14174
Wireless communication systems
[AD-A135830] 09 p1300 N84-18496
Active ionospheric generation on ELF/VLF waves
[AD-A139317] 14 p2176 N84-24034

KO, R. W. C.
Use of shear lag for composite microstress analysis - rectangular array
[AD-A134165] 07 p0967 N84-16267
Use of shear lag for composite microstress analysis - linear array
[AD-A134174] 07 p0967 N84-16269

KO, T.
Design of helicopter rotor blades for optimum dynamic characteristics
[NASA-CR-175380] 08 p1103 N84-17171

KO, W. L.
Preflight transient dynamic analyses of B-52 aircraft carrying Space Shuttle solid rocket booster drop-test vehicle
[NASA-TM-84925] 06 p0858 N84-15588
Thermal response of Space Shuttle wing during reentry heating
[NASA-TM-85907] 18 p2802 N84-27785

KOBA, H.
An explanation of the revised DVORAK technique for estimating tropical cyclone intensity using satellite cloud imagery and some results of its application to two 1982 storms 24 p3921 N84-34820

KOBAKHIDZE, K. Z.
Use of Peltier effect for small signal amplification and conversion 20 p3286 N84-30864

KOBASHI, K.
Prediction of high-pressure phase transitions in solid N2 and the pressure dependence of the intramolecular vibrational frequencies
[DE83-015260] 04 p0615 N84-14057
Calculation of structures and magnetic orientations in solid alpha- and beta-O-2 as a function of pressure
[DE83-015215] 05 p0756 N84-14958
Prediction of pressure induced structural phase transitions and internal mode frequency changes in solid N2+
[DE83-014279] 05 p0756 N84-14960
KOBAYASHI, A. S.
Advanced experimental techniques in crack tip analysis
[AD-A130719] 01 p0095 N84-10618
Crack branching, crack arrest and rapid tearing
[AD-P003112] 16 p2468 N84-25817
Analysis of dynamic mixed-mode crack tip stress patterns
[AD-A143329] 22 p3611 N84-32880
KOBAYASHI, D.
Water balance at a small watershed during the snowmelt season, 1 15 p2354 N84-25123
Water balance at a small watershed during the snowmelt season. 2: Runoff analysis 15 p2354 N84-25124
KOBAYASHI, H.
Freejets of rotationally relaxing diatomic gases
20 p3169 N84-30119
KOBAYASHI, H. S.
Doppler radar having phase modulation of both transmitted and reflected return signals
[NASA-CASE-MSC-18675-1] 13 p1975 N84-22820
Method and apparatus for receiving and tracking phase modulated signals
[NASA-CASE-MSC-16170-2] 18 p2828 N84-27952
KOBAYASHI, K.
Macroscopic plasma behavior and charged particle acceleration in the plasma focus
10 p1581 N84-20363
Gas pressure sintering of Beta-Sialon with Z=3
[NASA-TM-77421] 14 p2129 N84-23765
KOBAYASHI, R.
Phase and volumetric studies for methane/synthesis gas separations: The hydrogen-carbon monoxide-methane system
[PB84-214394] 21 p3375 N84-31417
KOBAYASHI, S.
Snow storm with strong wind in Antarctica
15 p2353 N84-25118
KOBAYASHI, T.
Method of refining 2,2-isopropylidenebis-3,5-dibromophenylene-4-oxydiethanol
[NASA-TM-77458] 10 p1453 N84-19492
Characteristics of heat and flame resistant optical fiber cables 11 p1726 N84-21260
KOBAYASHI, W. S.
Aerodynamic heating computations for projectiles. Volume 1: In-depth heat conduction modifications to the ABRES shape change code (BRLASCC)
[AD-A143252] 22 p3531 N84-32359
Aerodynamic heating computations for projectiles. Volume 2: Swept wing calculations using the planar version of the ABRES shape change code (PLNRASCC)
[AD-A143253] 22 p3532 N84-32360
KOBAYASHI, Y.
Improvement in quality of silicon-based amorphous films 21 p3477 N84-32041
KOBER, E. C.
Theoretical and experimental studies of the electronic structure of the Mo3(Micro3-0)(Micro3-OR)(Micro-OR)3(OR)6 type of triangulo metal atom cluster compound
[AD-A133516] 06 p0915 N84-15951
KOBER, E. M.
Reactions of metal-metal multiple bonds. Part 14: Synthesis and characterization of triangulo-W3 and Mo2W-oxo capped alkoxide clusters. Comproportionation of M-M triple bonds, sigma(2)pi(4) and d(o) Metal-oxo groups: M triple bond M + M triple bond O yields M3(micron 3-O)
[AD-A141067] 19 p2987 N84-28930
KOBETS, L. P.
Fracture mechanism of carbon and boron reinforced plastics with shear between layers
24 p3872 N84-34539
KOBLER, J. B.
Communications biophysics 22 p3684 N84-33362
KOBLINSKY, C. J.
Ocean circulation studies 20 p3222 N84-30469
KOBRICK, J. L.
A brief history of the use of simulation techniques in training and performance assessment
[AD-A140763] 17 p2746 N84-27437
KOBRICK, M.
Stereo imaging with spaceborne radars
07 p0988 N84-16400
KOBRIN, P. H.
Atomic photoelectron-spectroscopy studies using synchrotron radiation
[DE83-011740] 01 p0037 N84-10235
KOCH, A.
High temperature electrolysis of water vapor: HOT ELLY, phase 2A
[BMFT-FB-T-84-032] 16 p2463 N84-25784
KOCH, C. C.
Segregation and domain structure in rapidly solidified Ni3Al
[DE83-017188] 04 p0504 N84-13306
Ductile aluminide alloys for high temperature applications
[DE84-011037] 20 p3156 N84-30038
KOCH, D. G.
A large-area gamma-ray imaging telescope system
[NASA-CR-175435] 11 p1620 N84-20604
KOCH, G.
System for Application oriented Requirement Specification (SARS)
[BMFT-FB-DV-83-006] 12 p1885 N84-22286
KOCH, J.
Development or a solar cell coverglass adhesive for space application
[BMFT-FB-W-83-029] 08 p1181 N84-17695
KOCH, K. R.
Variations of ocean surfaces from ERS-1 altimeter data for repetitive orbits 02 p0233 N84-11532
Estimation of variances and covariances in the multivariate and in the incomplete multivariate model
16 p2504 N84-26073
Statistical tests for detecting crustal movements using Bayesian inference
[PB84-198811] 21 p3445 N84-31861
Geophysical use of the data of the ERS-1 altimeter
23 p3776 N84-33943
KOCH, R. B.
Biochemical studies on the initiation of odor sensing
[AD-A129926] 14 p2184 N84-24085
KOCH, S. W.
Simulations of the dynamics of optical bistability with fluctuations 14 p2236 N84-24421
KOCH, W. F.
Simulated precipitation reference materials, 4
[PB83-139378] 06 p0883 N84-15742
KOCH, W. R.
Preparation and cleanliness verifications of a space simulation chamber for contamination sensitive test specimens 24 p3865 N84-34495
KOCHANSKI, T. P.
Observations of soft X-ray fluctuations with an imaging array on TEXT
[DE83-018118] 03 p0447 N84-12938
KOCHEL, C.
Quantitative and experimental modelling of sapping networks 13 p2084 N84-23500
KOCHELAN, V. A.
The possibility of amplifying infrared radiation by high-pressure reacting gas
[AD-A131086] 03 p0440 N84-12890
KOCHELAP, V. A.
Calculating the probability of radiation from the dissociated states of diatomic molecules
[AD-A131069] 02 p0289 N84-11893
Ukrainian Physics Journal (selected articles)
[AD-A131087] 03 p0429 N84-12814
KOCHETKOV, V. T.
Static methods in the design of nonlinear automatic control systems
[AD-A143297] 22 p3644 N84-33101
KOCHMAREV, L. Y.
Modeling of beam-plasma discharge in the laboratory
05 p0638 N84-14200
KOCIECKA, K.
Preliminary investigations of 360 kJ plasma focus device, part 2 10 p1581 N84-20359
KOCINSKI, L.
Preliminary investigations of 360 kJ plasma focus device, part 2 10 p1581 N84-20359
KOCK, W.
High temperature electrolysis of water vapor: HOT ELLY, phase 2A
[BMFT-FB-T-84-032] 16 p2463 N84-25784
KOCZAK, M. J.
Microstructure and properties of P/M tool steels
[AD-A130980] 02 p0194 N84-11259
A fundamental study of P/M processed elevated temperature aluminum alloys
[AD-A136154] 09 p1284 N84-18387
A fundamental study of P/M processed elevated temperature aluminum alloys
[AD-A141780] 19 p2994 N84-28974
KODA, N. J.
Liquid crystal light valve structures
[NASA-CASE-MSC-20036-1] 12 p1912 N84-22457
KODNYANKO, V. A.
Improvement of dynamic characteristics of gas-static bearings 13 p1968 N84-22775
KODRES, C. A.
Thermal energy recovery in gas turbine engine test cells
[AD-A139457] 14 p2172 N84-24009
KODRYANSKIY, V. M.
Phase light range finder 21 p3380 N84-31447
KOEBLER, H. G.
Comparison of fatigue life prediction based on local strains and nominal stresses respectively
[LBF-FB-169(183)] 10 p1518 N84-19937
KOECHLING, J.
Dynamically stable legged locomotion
[AD-A136644] 09 p1363 N84-18905
KOEDINGER, M.
Thermal control of Telecom 1
10 p1441 N84-19413
KOEHL, E. R.
Description of the ACCESS data acquisition system
[DE84-005756] 12 p1919 N84-22506
KOEHL, M.
Technical applications of solar energy. Project photovoltaic systems and project selective coatings
[BMFT-FB-T-83-299] 12 p1844 N84-22025
KOEHLER, C. W.
Bipolar nickel-hydrogen batteries for aerospace applications 23 p3739 N84-33701
KOEHLER, D. R.
Radiation-induced transient acoustic loss in quartz crystals
[DE83-012626] 03 p0453 N84-12980
Modification of point defects in quartz for device applications
[DE84-002611] 07 p1082 N84-17036
KOEHLER, K.
System for recording, processing and interpreting vertical seismic profiles
[BMFT-FB-T-83-152] 02 p0250 N84-11638
KOEHLER, R.
Design and implementation of input signals for identification of pilot/aircraft models
[DFVLR-FB-84-08] 16 p2449 N84-25709
KOEHLER, W.
Hydrotreating of coal derived liquids
[BMFT-FB-T-83-175] 07 p0973 N84-16304
KOEHLER, W. C., JR.
Development of alternative energy science and engineering in the Caribbean
[PB84-145648] 12 p1845 N84-22026
KOEHNE, J.
Monolithic integrated analog switching arrays
[BMFT-FB-T-83-146] 02 p0216 N84-11418
KOELLE, H. H.
Design of a project plan for the establishment of a lunar factory
[ILR-MITT-123] 10 p1435 N84-19379
KOENDERINK, B. J. A.
Investigation into a digital modulation method for a frequency hopping system, using a low bit rate
[PHL-1983-44] 12 p1808 N84-21790
KOENEMANN, B.
Very large scale integration logical and physical structures of VLSI systems
[BMFT-FB-T-83-267] 10 p1488 N84-19730
KOENIG, D. G.
V/STOL wind-tunnel testing
[NASA-TM-85936] 15 p2253 N84-24528
V/STOL wind-tunnel testing 16 p2437 N84-25633
KOENIG, D. R.
Neutronic and thermal design considerations for heat-pipe reactors
[DE83-012690] 01 p0145 N84-10954
KOENIG, G.
Software research for computer aided cartography at the Berlin Technical University 20 p3226 N84-30503
KOENIG, J. L.
Nondestructive FT-IR sampling technique to study glass fiber composite interfaces
[AD-A129871] 01 p0031 N84-10192
Quality control and nondestructive evaluation techniques for composites. Part 2: Physiochemical characterization techniques, a state-of-the-art review
[AD-A131038] 01 p0032 N84-10200
Hydrothermal stability of gamma-aminopropyltriethoxysilane coupling agent on ground silicon powder and E-glass fibers
[AD-A130904] 01 p0037 N84-10234
Improved moisture resistance of fiber reinforced plastics
[AD-A132762] 05 p0659 N84-14333

Spectroscopic characterization of the cured state of acetylene-terminated resin
[AD-A133050] 05 p0660 N84-14336

KOENIG, K.
Numerical solution of the three-dimensional unsteady Euler equations
[AD-A132034] 03 p0425 N84-12783
Problems of system identification in flight vibration testing
[AGARD-R-720] 16 p2451 N84-25718

KOENIG, U.
Development of low cost amorphous materials with high saturation flux density
[BMFT-FB-T-83-213] 10 p1463 N84-19558

KOENIGSBERGER, G.
International Ultraviolet Explorer observations of Wolf-Rayet binaries: Wind structures
[NASA-CR-175235] 07 p1089 N84-17081

KOEPF, G. A.
Off-axis coherently pumped laser
[NASA-CASE-GSC-12582-1] 18 p2845 N84-28065
Technologies for intersatellite optical communications 24 p3904 N84-34727

KOEPKE, P.
Fundamental approaches for determining the radiation budget (and corresponding activities at Meteorologisches Institut, Munich (MIM) and Institut fuer Physik der Atmosphaere (IPA)) 10 p1535 N84-20053
Accuracy of the short wave radiation budget derived from Meteosat-VIS-data 10 p1535 N84-20055
The influence of perturbing water properties in chlorophyll mapping 23 p3780 N84-33970

KOEPPEL, W.
Development of generic mobility-terrain data bases: Investigation of critical soil parameters
[AD-A133595] 06 p0878 N84-15715

KOERKEL, M.
Error margins by segmentation of speech signals with autocorrelation procedures for linear prediction coding systems
[FI-13-TBR-17] 16 p2481 N84-25911
Generation of two stage random graphs
[FI-032-TB-16] 23 p3732 N84-33654

KOERNER, H.
Wind tunnel investigations on thin supercritical airfoils in the high subsonic flow regime
[ESA-TT-774] 16 p2440 N84-25652

KOERNER, M. A.
Doppler system phase transfer functions for a system with an X-band uplink and X-band and S-band downlinks 10 p1474 N84-19627
Effect of RF filtering on the performance of uncoded PCM/PM telemetry channels 16 p2480 N84-25901

KOERNER, T.
Requirements for a transformerless power conditioning system
[NASA-CR-173742] 18 p2833 N84-27981

KOESTER, J. K.
High magnetic field MHD generator program
[DE84-007660] 15 p2411 N84-25474

KOETHE, H. K.
Development of a modular battery
[BMFT-FB-W-83-021] 08 p1153 N84-17504
Nickel cadmium cell SD 15 K, qualification and operation of a modularized battery 50 Ah, 100 v
[BMFT-FB-W-83-030] 10 p1488 N84-19728

KOFEL, W. K.
Tip cap for a rotor blade
[NASA-CASE-LEW-13654-1] 13 p1931 N84-22560

KOFLER, R.
Searching for limitations in capability due to high average rates 06 p0911 N84-15919

KOFSKY, I. L.
Experiments on interaction of keV particle beams with the ionosphere
[AD-A143277] 22 p3623 N84-32957

KOGA, D. J.
Control of separated flowfields using forced unsteadiness 17 p2598 N84-26654

KOGAN, B. L.
Properties of grey cast iron treated with pulsating current during inoculation
[BLL-M-35118-(5828.4)] 01 p0040 N84-10252

KOGAN, I. S.
Relationship of structure with cyclic crack resistance of Alpha-titanium alloys 24 p3875 N84-34557

KOGAN, L. R.
Three-element radiointerferometer with very long baselines 19 p2974 N84-28853

KOGAN, M. Y.
Relationship between cardiovascular system response and adrenocortical glucocorticoid function on exposure to diffuse, low-intensity helium-neon laser emission 17 p2741 N84-27405

KOGAN, V. A.
The effect of the structure of metallo-organic complexes on the electrolytic precipitation of titanium and niobium from nonaqueous electrolytes
[BLL-OA-TRANS-3070-(6196.3)] 04 p0497 N84-13259

KOGAN, V. G.
Effects of a finite aperture on the inverse born approximation
[DE83-018086] 04 p0596 N84-13930
Magnetic impurity scattering in in situ superconductors
[DE84-012835] 21 p3505 N84-32212

KOGDOV, N. M.
Problems of improving management of use of computer technology in higher schools 24 p3940 N84-34944

KOGER, S. A.
Effects of ionizing radiation and restraint stress on activity, avoidance conditioning, and stomach ulcers in albino rats
[AD-A141515] 19 p2984 N84-28911

KOGGE, P. M.
Standard ISAs (Instruction Set Architectures) and VLSI (Very Large Scale Integration): Two interacting trends
[AD-P003563] 21 p3336 N84-31168

KOGUT, J.
An analysis of new techniqes for radiometric correction of LANDSAT-4 Thematic Mapper images
[E84-10086] 10 p1521 N84-19957
An analysis of the high frequency vibrations in early Thematic Mapper scenes 20 p3210 N84-30395

KOH, E. K.
Effects of cochannel interference on QPSK systems in a nonlinear satellite channel 05 p0671 N84-14414

KOH, J. L.
Wind and solar powered turbine
[NASA-CASE-NPO-15496-1] 13 p2007 N84-23018

KOH, P. H.
Instability and transition in the boundary layer 06 p0846 N84-15516

KOHE, T.
High charge picosecond pulses with a double gap subharmonic buncher
[DE83-011743] 01 p0143 N84-10939

KOHL, F. J.
Experimental and theoretical deposition rates from salt-seeded combustion gases of a Mach 0.3 burner rig
[NASA-TP-2225] 10 p1490 N84-19741
Chemical mechanisms and reaction rates for the initiation of hot corrosion of IN-738
[NASA-TP-2319] 19 p2992 N84-28958
Deposition of Na2SO4 from salt-seeded combustion gases of a high velocity burner rig
[NASA-TM-83751] 21 p3398 N84-31558

KOHL, H.
The electron and ion spectra of radar returns from the critical height during ionospheric heating experiments 05 p0636 N84-14185

KOHL, J. L.
Spectroscopic measurements of solar wind generation 03 p0466 N84-13071
Measurements of ionization balance parameters in atomic ions
[DE84-007884] 14 p2222 N84-24337
Experimental studies in molecular fragmentation: Processes, energetics and diagnostics
[AD-A136648] 18 p2810 N84-27840

KOHLBACHER, G.
Applications of analog Change Coupled Devices (CCD's)
[BMFT-FB-T-83-141] 03 p0456 N84-13002

KOHLER, W. E.
Two stochastic modeling problems in communications and navigation
[AD-A133458] 06 p0905 N84-15873

KOHLHAAS, G.
Causes and prevention of structural materials failures in naval environments
[AD-A141560] 19 p2994 N84-28972

KOHLHASE, A.
Scattering experiments on rotational excitation of methane in collision with noble gases
[MPIS-3/1984] 20 p3297 N84-30936

KOHLHEPP, D. E.
Wavelength selection for a ground based free electron laser weapon system
[AD-A141157] 18 p2846 N84-28072

KOHLI, D.
Theories of kinematic analysis and synthesis of spatial mechanisms containing lower and higher pairs
[AD-A134519] 07 p1016 N84-16594

KOHLSCHUETTER, U.
Development of technology, circuit design and simulation procedures for Very Large Scale Integration (VLSI) systems, volume 1
[BMFT-FB-T-83-170-VOL-1] 10 p1487 N84-19724
Development of technology, circuit design and simulation procedures for Very Large Scale Integration (VLSI) systems, volume 2
[BMFT-FB-T-83-170-VOL-2] 10 p1487 N84-19725

KOHLSTEDT, D. L.
Inelastic deformation of crystaline nonmetallic solids
[DE83-014594] 01 p0155 N84-11020

KOHN, S. D.
Evaluation of the pavement condition index for use on porous friction surfaces
[AD-A144521] 24 p3857 N84-34453

KOHNEN, E.
Investigation of interactions between helmet-mounted sight/display, sensor platform and human pilot
[ESA-TT-746] 16 p2539 N84-26299

KOHSE, G.
MIT miniaturized disk bend test
[DE84-001275] 05 p0694 N84-14554
Ion bombardment effects of the fatigue life of stainless steel under simulated fusion first wall conditions
[DE84-001300] 21 p3367 N84-31359

KOHYAMA, A.
Evolution of cavity microstructure in ion-irradiated 316 SS and Fe-20Ni-15Cr alloy
[DE84-012111] 20 p3158 N84-30053

KOIDE, G.
Automated helium gas metering system
[DE84-015083] 23 p3751 N84-33779

KOIKE, C.
Far infrared extinction coefficients of minerals of interest for astronomical observations 16 p2571 N84-26502
Far infrared extinction coefficients of minerals of interest for astronomical observations 18 p2949 N84-28700

KOINIG, H.
Physical models and numerical methods of the reactor dynamic computer program RETRAN
[OEFZS-4272] 18 p2931 N84-28587

KOITABASHI, M.
Degradation of thermal shield materials in the space radiation environment 10 p1446 N84-19448

KOIZUMI, M.
Fabrication of highly dense SiN4 ceramics without additives by high pressure sintering
[NASA-TM-77425] 16 p2470 N84-25829

KOIZUMI, T.
A small and light weight heat exchanger for on-board helium refrigerator 06 p0819 N84-15339

KOJIMA, C. J.
Environmental degradation of solar optical materials, volume 2
[DE84-006505] 19 p3051 N84-29362

KOJIMA, K.
Estimation of melting rate of snow by simple formulae using only air temperature 15 p2353 N84-25121
Optical properties of melting snow, 1 15 p2354 N84-25122
Study of latent heat storage system used heat pipes for cooling of underground cables 20 p3170 N84-30127
Radiation measurement of snowy season in 1982-1983 at Sapporo 23 p3762 N84-33845

KOK, J.
Guidelines for the design of large modular scientific libraries in Ada
[NPL-DITC-28/83] 03 p0420 N84-12740
Guidelines for the design of large modular scientific libraries in Ada
[MW-NN-31/83] 07 p1056 N84-16840
Summaries of doctorate theses 20 p3263 N84-30705
Supervisory control: Introduction and theory 20 p3263 N84-30706
Guidelines for the design of large modular scientific libraries in Ada
[CWI-NM-N8401] 20 p3275 N84-30792

KOK, L. J.
An atomic oxygen facility for studying polymer materials for spacecraft applications 24 p3863 N84-34482

KOKAYEV, O. G.
Method of acceleration of arithmetic calculations 24 p3941 N84-34949

KOKIN, A. A.
Modelling of transfer processes in monopolar semiconductor structures with submicron dimensions 21 p3381 N84-31453

KOKIN, V. I.
Technical features of robotized machining system viewed 24 p3892 N84-34643

KOKINI, K.
Thermal stress analysis of annular glass-to-metal seals under thermal shock 03 p0370 N84-12408

KOKOTOVIC, P. V.
Control strategies for complex systems for use in aerospace avionics
[AD-A135072] 08 p1104 N84-17179

KOKUNKO, V. S.
Radomes for flight vehicles
[AD-A140174] 16 p2483 N84-25920

KOKUSHKIN, I. V.
Investigation of the state of materials in plasma deposition of refractory coatings
[BLL-M-35686-(5828.4)] 22 p3551 N84-32485

KOLACHEV, B. A.
Hydrogen embrittlement of titanium and its alloys
24 p3875 N84-34554
Influence of conditions and medium of annealing on short-term strength and fatigue resistance of welded joints in OT4 titanium alloy 24 p3876 N84-34559

KOLANDER, W.
Unsteady aerodynamics of fast moving control surfaces
[BMFT-FB-W-84-020] 21 p3328 N84-31117

KOLAR, R.
Design of array processor software for nonlinear structural analysis
[AD-A137767] 11 p1706 N84-21124

KOLAR, W. A.
Flat-plate solar-collector performance data base and user's manual
[DE83-011993] 04 p0558 N84-13682

KOLASSA, D. A.
Interactive raster data structure study
[AD-A130195] 01 p0100 N84-10649

KOLB, C.
Hypervelocity supersonic nozzle beam source of atomic oxygen 24 p3863 N84-34480

KOLB, M. A.
Hot wire in low Reynolds number flow
08 p1237 N84-18087

KOLBE, W. F.
Acoustic imaging of vapor bubbles through optically non-transparent media
[DE84-003961] 08 p1228 N84-18022

KOLBECK, J. B.
Excitation frequency dependence of conductivity of electrolytic solutions
[AD-A132782] 05 p0650 N84-14272

KOLBER, A.
Bioassay of particulate organic matter from ambient air
[PB83-239731] 02 p0267 N84-11754

KOLDAYEV, V. M.
Influence of microwave electromagnetic radiation and certain hormones on osmotic resistance of mouse erythrocytes 20 p3259 N84-30682

KOLEN, P.
Development of a new charger system
[BMFT-FB-T-83-305] 15 p2328 N84-24977

KOLENKIEWICZ, R.
Results of laser ranging collocations during 1983
20 p3220 N84-30458
A comparison between Lageos laser ranging and VLBI determined baselines 20 p3220 N84-30459

KOLESNIKOV, A. S.
Incentives for new production discussed
13 p2064 N84-23388

KOLESNIKOV, I. D.
Sensing of factors involved in development of exogenous processes on space photographs of arid territories 19 p2977 N84-28870

KOLESNIKOV, S. Y.
The importance of impact pressure in the development of the process of formation of bonds between metals in the solid phase
[BLL-M-35656-(5828.4)] 22 p3550 N84-32473

KOLESNIKOV, Y. S.
Organizing work with information flows in system for automated processing of data from remote sensing of the Earth for use in agriculture 19 p2977 N84-28873

KOLEVA, R.
Effects of small-scale plasma disturbance on the IKB-1300 spacecraft potential
[PR-839] 08 p1109 N84-17208

KOLIWAD, K. M.
High-speed growth of silicon crystals: Flat-plate solar array perspective 18 p2935 N84-28615
A new solar cell design for improved open circuit voltage and high efficiency
[NASA-CASE-NPO-16126-1] 22 p3616 N84-32911

KOLKA, M. A.
Effect of atropine on the exercise-heat performance of man
[AD-A131843] 03 p0416 N84-12719
Heat exchange following atropine injection before and after heat acclimation
[AD-A132618] 06 p0890 N84-15780
Effects of heat acclimation on atropine impaired thermoregulation
[AD-A139292] 15 p2380 N84-25282

KOLKMAN, H. J.
Corrosion and corrosion prevention in gas turbines
[NLR-MP-82048-U] 10 p1431 N84-19355
Erosion of corrosion resistant coatings for jet engine compressors
[NLR-MP-83010-U] 12 p1771 N84-21550
Effect of cooling rate on corrosion properties and microstructure of high strength aluminum alloys
[NLR-TR-82105-U] 15 p2297 N84-24783

KOLLATSCHNY, W.
IUE observations of multiple nucleus galaxies
24 p3971 N84-35148

KOLLODGE, J. C.
Breadboard stellar tracker system test report
[NASA-CR-170973] 08 p1102 N84-17166

KOLM, H.
Electromagnetic launchers and guns, phase 1
[AD-A143778] 23 p3698 N84-33435

KOLMAKOV, K. M.
Variation in coefficient accounting for influence of external zones with variation in contact friction conditions
[BLL-M-35596-(5828.4)] 19 p3031 N84-29222

KOLMAN, J. M.
Use of radial hemolysis method in gel for detection of antibodies to Bunya virus Lednice (Turlock virus group)
17 p2741 N84-27403

KOLMOGOROV, G. L.
Certain assumptions of theory of hydrodynamic lubrication during metal pressure working
[BLL-M-35681-(5828.4)] 22 p3603 N84-32822

KOLMOGOROV, V. L.
Mechanical properties of Mn-Al-C system alloys
[BLL-M-35432] 09 p1280 N84-18362

KOLODYNSKA, V. V.
Psychophysiological aspects of monotonous human activity 21 p3453 N84-31911

KOLODYNSKIY, A. A.
Psychophysiological aspects of monotonous human activity 21 p3453 N84-31911

KOLODZIEJ, W. J.
A 2-step bilinear filtering approximation
[AD-A138350] 12 p1894 N84-22338
On a simple adaptive tracking filter
[AD-A138955] 13 p2033 N84-23186
Hierarchial command, control and coupled bilinear systems
[AD-A142401] 20 p3280 N84-30823
State estimation and control of conditionally linear systems
[AD-A142455] 20 p3281 N84-30826

KOLOGRIVOV, A. A.
Heating and implosion of spherical targets irradiated by laser 20 p3288 N84-30879

KOLOKOCHIKOV, N. P.
Instability of collapsing cylindrical shell during magnetic energy density 20 p3287 N84-30872

KOLOMENSKIY, A. B.
Influence of conditions and medium of annealing on short-term strength and fatigue resistance of welded joints in OT4 titanium alloy 24 p3876 N84-34559

KOLOMNETS, Y. V.
The measurement of acoustic emission parameters during hydraulic loading of the Novovorenezh AES reactor vessel VVER-1000
[DRIC-T-6998] 15 p2403 N84-25421

KOLOMOYTSEV, V. F.
Modulation of microwave power with electron transfer diodes 22 p3570 N84-32610

KOLOTINSKIY, V. N.
Specifics of processes of deformation and microfracture of amorphous iron-based alloys
12 p1788 N84-21662

KOLOTNIKOV, M. Y.
Estimating thermal fatigue strength of prototype blades in gas turbine engine 17 p2642 N84-26906

KOLPAKOV, Y. V.
Normal human coronary circulation during postural tests and decompression of lower half of body
02 p0259 N84-11699

KOLPAKOVA, N. F.
Circadian pattern of simian functional parameters during hypokinesia and in the recovery period
20 p3253 N84-30650

KOLSKY, H.
Elastic-plastic deformation of pulse-loaded structures
[AD-A142350] 20 p3202 N84-30339

KOLTON, G. A.
Regular reflection of strong shock wave by wedge surface 17 p2647 N84-26932

KOLZUNOVA, L. G.
Deposition of polymer films on metal by the electrolysis of aqueous solutions of vinyl monomers
[BLL-LTS-1200/83-(5828.4F)] 08 p1136 N84-17386

KOMAI, J.
A case study of spaceborne synthetic aperture radar system design for the Earth Resources Satellite
23 p3782 N84-33987

KOMAR, P. D.
Experiments examining the shapes of isolated bars in comparison with those occurring in braided rivers
13 p2084 N84-23503
The erosion of streamlined islands, longitudinal grooves and scour marks: Implications to the origin of the Martian outflow channels 13 p2064 N84-23504

KOMAR, W.
Studies on ion beams produced in a plasma focus, part 2 10 p1582 N84-20364

KOMATSU, G. K.
Space plasma high-voltage drainage experiment (A0054) 15 p2274 N84-24655

KOMATSU, K.
Nonlinear sloshing analysis of liquid in containers with arbitrary geometries
[NAL-TR-757] 09 p1313 N84-18579
Dual corelated random excitation technique for modal testing
[NAL-TR-762] 09 p1372 N84-18962

KOMATSU, M.
Boundary migration and disappearance of voids in Alpha-Al2O3 at 2000 deg C
[NASA-TM-77436] 19 p3110 N84-29758

KOMINE, H.
Scaling studies of efficient Raman converters
[AD-A130382] 01 p0086 N84-10560

KOMOLOVA, L. F.
Structural features of polycrystalline ZnSe and solid solutions ZnSe sub 1-x S sub x 12 p1788 N84-21659

KOMOROWSKI, J. P.
Hygrothermal effects in continuous fibre reinforced composites. Part 2: Physical properties
[AD-A135766] 09 p1276 N84-18331
Hygrothermal effects in continuous fibre reinforced composites. Part 3: Mechanical properties 1 - static tests
[AD-A135767] 09 p1276 N84-18332
Hygrothermal effects in continuous fibre reinforced composites. Part 4: Mechanical properties 2 - fatigue and time-dependent properties
[AD-A135768] 09 p1276 N84-18333
Hygrothermal effects in continuous fibre reinforced composites. Part 1: Thermal and moisture diffusion in composite materials
[AD-A128228] 18 p2810 N84-27837

KOMURO, T.
A study of air breathing rockets. 3: Supersonic mode combustors
[NAL-TR-756] 04 p0489 N84-13213

KOMYSMEV, V. P.
Invariance of level of rotating liquid
[BLL-M-35611-(5828.4)] 20 p3182 N84-30220

KON, A. I.
Limiting ranges in atmospheric radioacoustic sounding
17 p2707 N84-27238
Signal power during radioacoustic sounding of turbulent atmosphere 18 p2864 N84-28186

KON, Y. L.
Adaptive analog-to-digital converter
22 p3567 N84-32591

KONAKHEVICH, Y. G.
Simulation of cerebrocranial trauma for evaluation and development of gear to protect pilots against impacts
02 p0259 N84-11695

KONAPELSKY, R. S.
Analysis of directivity as a function of scan angle for planar arrays of radiating slots
[AD-P003503] 21 p3383 N84-31471

KONAR, A. F.
Interactive flight control system analysis program
[NASA-CR-172352] 19 p2968 N84-28807

KONDAKOV, A. V.
Hemodynamic reactions to positive intrathoracic pressure at +G sub z accelerations
02 p0259 N84-11696

KONDAKOVA, Z. V.
Evaluation of precision of triangulation method of determining coordinates 17 p2637 N84-26869

KONDO, H.
An approximate method of estimating the aerodynamic interference between two parallel bodies (normal force and side force)
[NAL-TR-752] 04 p0479 N84-13154

KONDO, K.
Spectroscopy in heliotron E 11 p1735 N84-21320

KONDO, Y.
Very recent IUE observations of 2 BL Lacertae orbits
15 p2424 N84-25561
Application of quantitative microscopy to ceramics
[NASA-TM-77420] 24 p3888 N84-34618

Optically-thick, highly-variable plasma in interacting binaries 24 p3980 N84-35211
Egress spectra of the new eclipsing supergiant 22 Vulpeculae 24 p3980 N84-35215

KONDORSKAYA, N. V.
Homogeneous magnitude system of the Eurasian continent: S and L waves
[PB84-101161] 08 p1188 N84-17744

KONDRATEV, N. S.
Pulse and interval distributor with sensor control 17 p2637 N84-26867

KONDRATYEV, K. Y.
Present-day status of investigations of anthropogenic influence on atmospheric ozone 17 p2697 N84-27180
Radiative heat exchange in atmosphere disturbed by volcanic eruption 17 p2698 N84-27184

KONDRATYEV, S. Y.
Influence of aging in martensite state on mechanical properties of Cu-Al-Zn system Beta-alloy 12 p1784 N84-21641

KONDRATYEV, V. I.
Turbulent boundary layer at plate with suction at various angles 17 p2648 N84-26938

KONDRATYEV, Y. I.
New book on metabolism under hypodynamic conditions 15 p2378 N84-25271

KONECNY, R.
Relativistic-beam pickup test facility
[DE83-017929] 04 p0600 N84-13962

KONG, F. M.
Hydrolytic degradation of Kevlar 49 fibers
[DE84-004158] 13 p1954 N84-22705
Modes of deformation and failure of Kevlar 49 fibers and composites
[DE84-004162] 13 p1954 N84-22706

KONG, J. A.
Active and passive remote sensing of ice
[AD-A133672] 05 p0697 N84-14577
Remote sensing of Earth terrain 12 p1831 N84-21938
Remote sensing of Earth terrain 12 p1834 N84-21951
Active and passive remote sensing of ice
[AD-A141473] 19 p3041 N84-29293
Electromagnetic wave theory and remote sensing 22 p3683 N84-33350

KONG, R. C.
Separation as asphaltenes using high-resolution supercritical-fluid chromatography 01 p0038 N84-10240
Capillary supercritical fluid chromatography of polycyclic aromatic compounds
[DE84-002939] 07 p0972 N84-16302

KONISHI, D. Y.
Delamination growth in composite structures under inplane compression loading 01 p0036 N84-10224

KONISHI, H.
Simultaneous observation of snowfall intensity and visibility in winter at Sapporo 15 p2354 N84-25125

KONITZER, D. G.
Formation of dispersions of rare earth oxides in titanium alloys using rapid solidification processing
[DE84-008664] 20 p3157 N84-30048

KONKOV, E. A.
Calculation of thermal stress state for components of metallurgical equipment by electric simulation
[BLL-M-35690-(5828.4)] 22 p3608 N84-32860

KONKOV, N.
Cosmonaut Berezovoy's memoirs on 211-day spaceflight 21 p3347 N84-31231

KONNICK, P. J.
Hermetically sealed microminiature multisocket connector
[DE83-017484] 03 p0384 N84-12503

KONO, J.
Specifications for a low capacity SCPC FM Earth station
[INPE-2944-NTE/206] 17 p2652 N84-26959

KONONENKO, A. G.
Phase light range finder 21 p3380 N84-31447

KONOPIK, M. G.
Communications Support Processor (CSP)
[AD-A130360] 01 p0064 N84-10419

KONOSKE, P. J.
Effects of behavioral objectives and instructions on earning a category task
[AD-A130386] 01 p0116 N84-10750

KONOVALCHUKOV, A. G.
A study of Beta-hydroxyamines and Beta-hydroxysulphides as corrosion inhibitors for metals
[BLL-T6313/BG/WH773/84] 22 p3552 N84-32487

KONOVALOV, B.
Academician Barsukov interviewed on Venera results 12 p1775 N84-21578
Design modifications on Venera-15, -16 12 p1775 N84-21579
Benefits from satellite programs cited 12 p1776 N84-21584
Computer developments at Institute of Automation and Electrometry described 13 p2065 N84-23390
Computers on the job 24 p3941 N84-34945

KONRAD, G. T.
High power RF klystrons for linear accelerators
[DE84-012074] 21 p3392 N84-31527

KONRAD, T. G.
Detection of severe weather by FAA radars
[FAA-RD-79-91] 17 p2733 N84-27372

KONRADI, A.
Initial experimental results from a laboratory size beam plasma discharge device 05 p0638 N84-14198

KONSTANTINOV, S. G.
Protective plasma envelope
[DE84-013316] 21 p3502 N84-32194
Probing a plasma with high-energy beams of atoms using threshold detectors
[DE84-013360] 21 p3502 N84-32195

KONSTANTINOVA, I.
Superfine wire made from new alloy 12 p1787 N84-21657

KONVALINKA, M. J.
Analysis of incentives for productivity-enhancing investment
[AD-P002770] 13 p2053 N84-23317

KONYSHEV, V. P.
Topochemical reactions and the Stefan problem
[BLL-M-35671-(5828.4)] 22 p3553 N84-32501

KONZOK, H. G.
OTS 2: Five years of thermal testing on a satellite in a geostationary orbit 10 p1446 N84-19446

KOO, F.
Nitramine propellant crack tip ignition and crack propagation of a burning sample under rapid pressurization
[AD-A141246] 18 p2811 N84-27848

KOO, J.
Perception of the movement of visual scenes during horizontal body rotation
[NAL-TR-787] 16 p2538 N84-26292

KOO, J. Y.
Temperature-resistant elements for reverse osmosis treatment of hot process waste
[DE84-005190] 10 p1456 N84-19507

KOO, K. P.
Fiber optic magnetometer for the detection of dc magnetic fields without hysteretic ambiguity
[AD-D011085] 22 p3599 N84-32794

KOOB, R. D.
Geological and geochemical controls on the chemical evolution of subsurface water in undisturbed and surface-mined landscapes in western North Dakota
[PB84-126952] 08 p1180 N84-17685

KOOCHESFAHANI, M. M.
Chemically reacting turbulent shear layers
[AD-A131553] 02 p0295 N84-11931

KOOKER, D. E.
closed bomb combustion simulation of Hivelite solid propellant 13 p1948 N84-22667

KOOMEN, J. A. G. M.
Implementation of INTERLISP on the VAX
[AD-A141707] 21 p3465 N84-31967

KOOMEN, M. J.
Associations between coronal mass ejections and interplanetary shocks 03 p0474 N84-13121

KOONS, H. C.
Whistler mode interactions and plasma sheet electrons
[AD-A134327] 07 p0993 N84-16436
A review of SCATHA satellite results: Charging and discharging 08 p1115 N84-17254
Summary of environmentally induced electrical discharges on the P78-2 (SCATHA) satellite
[AD-A140077] 15 p2282 N84-24705

KOOPMAN, R.
Methods of full and accurate rheological characterisation
[AD-B080747] 15 p2300 N84-24803

KOOPMAN, R. P.
The evaporation and gaseous dispersion of large-scale releases of nitrogen tetroxide
[AD-A142079] 20 p3166 N84-30104

KOOPMANN, G. H.
Periodic flow noise reduction using flow-excited resonators: Theory and application
[DFVLR-FB-83-29] 06 p0831 N84-15409

KOORNWINDER, T. H.
Generalized functions as linear functionals on generalized functions
[MC-ZW-199/83] 07 p1065 N84-16912

KOPA, R.
Magneto-mechanical effects in 304 stainless steels
[DE84-004343] 10 p1462 N84-19546

KOPACHEVSKIY, N. D.
Free oscillations of ideal stratified fluid in container 21 p3480 N84-32058

KOPALA, C. J.
Symbology verification study
[AD-A131328] 02 p0177 N84-11162
Computer generated pictorial stores management displays for fighter aircraft
[AD-A131412] 02 p0179 N84-11168

KOPANEV, V. I.
Functional state and work capacity of man when breathing oxygen and hypoxic mixtures under positive pressure 20 p3254 N84-30654

KOPEC, G. E.
An overview of signal representations in signal processing languages 09 p1400 N84-19146

KOPECKY, K. J.
Theoretical flow regime diagrams for the AGCE 24 p3923 N84-34831

KOPELMAN, R. B.
Light scattering measurements of critical fluctuations in an optically thin binary liquid sample 17 p2765 N84-27559

KOPETZ, H.
Guidelines for software production in developed countries
[PB84-202795] 21 p3467 N84-31986

KOPHSTAHL, E.
Automation assisted gathering, processing, and representation of topographic data for the production of the German basic map 1:5000 - height in Lower Saxony 20 p3226 N84-30500

KOPKA, H.
Summary of ionospheric heating experiments at Tromsoe (Norway) 05 p0635 N84-14178
Observations of stimulated electromagnetic emissions during ionospheric heating experiments 05 p0635 N84-14179
Preliminary results from the Heating Rocket (HERO) project: In situ measurements of ionospheric modifications using sounding rockets 05 p0636 N84-14183
The electron and ion spectra of radar returns from the critical height during ionospheric heating experiments 05 p0636 N84-14185

KOPKA, J.
First observations of 140 MHz plasma line backscatter during healthy experiments at Tromsoe
[UIO-SR-84-02] 20 p3243 N84-30588

KOPLOW, M. D.
An RC-1 organic Rankine bottoming cycle for an adiabatic diesel engine
[NASA-CR-168256] 21 p3521 N84-32306

KOPP, D. M.
Linearization of an analog fiber-optic system using the quasi-feedforward technique
[AD-A137529] 11 p1731 N84-21294
Analog fiber optics: Pragmatic considerations beyond the textbook
[AD-A137528] 12 p1908 N84-22430

KOPP, F. J.
Cloud scale influences on mesoscale precipitation patterns 24 p3930 N84-34879

KOPP, H.
Data engineering systems: Computerized modeling and data bank capabilities for engineering analysis 12 p1873 N84-22203

KOPP, O.
On the use of diamond and cubical boron nitride abrasives in automatic honing applications
[CSIR-TRANS-1640] 08 p1141 N84-17420

KOPP, R.
The change of the mechanical properties of steel strip in processing lines
[BMFT-FB-T-83-178] 08 p1135 N84-17383

KOPPE, W.
Emission-proof valves
[BMFT-FB-HA-83-028] 10 p1503 N84-19822

KOPPENWALLNER, G.
Fundamentals of hypersonics: Aerodynamics and heat transfer 16 p2441 N84-25660
Free molecular aerodynamics for satellite application
[ESA-TT-776] 16 p2456 N84-25749

KOPPER, F. C.
Energy efficient engine: Low-pressure turbine subsonic cascade component development and integration program
[NASA-CR-165592] 18 p2795 N84-27738
Energy efficient engine high-pressure turbine supersonic cascade technology report
[NASA-CR-165567] 18 p2796 N84-27739

KOPPER, M. K.
Forecast verification and reconnaissance data for Southern Hemisphere tropical cyclones
[AD-A130187] 01 p0108 N84-10700
KOPPES, W. M.
Synthesis of energetic materials
[AD-A130974] 02 p0200 N84-11299
Synthesis of energetic materials
[AD-A141495] 19 p3001 N84-29021
KOPRIVA, D. A.
Spectral methods for the Euler equations: Chebyshev methods and shock-fitting
[NASA-CR-172295] 08 p1095 N84-17118
Spectral methods for the Euler equations: Fourier methods and shock-capturing
[NASA-CR-172284] 08 p1095 N84-17119
KOPYSTYANSKAYA, K. R.
Realization of human work capacity: Interdisciplinary problems 21 p3454 N84-31920
KORABELNIKOV, Y. G.
Scale effect of fiber strength and properties of fiber-based unidirectional composites 23 p3706 N84-33496
KORBIN, C. M.
Quality Assurance (QA) procedures for computer software in department 1510
[DE84-012131] 20 p3273 N84-30778
KORCEK, S.
Time-temperature studies of high temperature deterioration phenomena in lubricant systems: Synthetic ester lubricants
[AD-A135464] 08 p1166 N84-17594
KORELLIS, J. S.
Experimental research facility for creep-rupture testing of tantalum alloy T-111
[DE84-012030] 20 p3155 N84-30036
KORETSKIY, A. V.
Probabilistic characteristics of perturbation torques in gyroscopes with electrostatic suspension 17 p2643 N84-26913
KOREVAAR, P.
Shell ejection phenomena in the hypergiant star P Cygni 24 p3977 N84-35189
KORHONEN, M. A.
Workhardening correlations based on state variables in some FCC metals in monotonic loadings
[DE84-004880] 10 p1461 N84-19540
KORHONEN, T.
The 70 cm Schmidt telescope of Turku University observatory 09 p1414 N84-19252
KORIATH, J.
Physiological assessment of aircraft pilot workload in simulated landing and simulated hostile threat environments
[AD-A140469] 16 p2538 N84-26297
KORN, A.
Design of helicopter rotor blades for optimum dynamic characteristics
[NASA-CR-175380] 08 p1103 N84-17171
KORN, G. A.
Research on new, fast, direct-executing programs for multiple microprocessor systems
[PB84-162791] 15 p2393 N84-25364
KORN, J.
Tracking theory for airborne surveillance radars
[AD-A131792] 03 p0361 N84-12350
KORNA, M.
User's guide for COMBIMAN programs (Computerized Biomechanical Man-Model), version 6
[AD-A139139] 14 p2184 N84-24086
KORNACKI, A. S.
The nature and origin of refractory inclusions in the Allende meteorite 22 p3678 N84-33318
KORNBREKKE, R. E.
Physical processes in fluids
[NASA-CR-170990] 12 p1814 N84-21827
KORNECKI, A.
On the effect of gyroscopic forces on the instability of certain fluid-elastic systems. Part 1: Definitions
[PUBL-340] 04 p0532 N84-13499
Dynamics of a mobile tank partially filled with liquid: Equations of motion and their linearization
[WU-PAPER-174] 05 p0678 N84-14460
KORNER, H.
Mathematical modelling and theoretical methods for the aerodynamic behaviour of control devices 01 p0013 N84-10085
KORNEV, A. V.
Effects of whole-body cold exposure on erythrocyte morphology 21 p3452 N84-31906
KORNEYEV, N. I.
Forging and stamping nonferrous metals. Handbook
[AD-A141689] 21 p3366 N84-31351
KORNILOV, S. G.
Spherical heat radiation receiver with white target 18 p2827 N84-27945
KORNIYENKO, Y. S.
Effect of injection into boundary layer on flow of supersonic stream past oscillating cone 17 p2646 N84-26925
KORNREICH, P. G.
Polymeric microelectronics
[AD-A130523] 01 p0049 N84-10317
Surface acoustic wave/silicon monolithic sensor/processor
[NASA-CR-174541] 01 p0056 N84-10366
KOROBOV, O. S.
Fluctuations in chemical composition of titanium alloy Beta-solid solution in preseparation stage 12 p1786 N84-21650
KOROBOV, R. N.
EEG informational content in prediction of work performance 18 p2895 N84-28368
KOROL, A. A.
Use of concentrated solar energy to form slip coatings 24 p3874 N84-34552
KOROL, Y. A.
Use of concentrated solar energy to form slip coatings 24 p3874 N84-34552
KOROLEV, V. V.
Evaluation of changes in human axial skeletal bone structures during long-term spaceflights 15 p2375 N84-25251
KOROLEV, Y. M.
Bonding materials by gas-phase precipitation 23 p3709 N84-33512
KOROLKOV, V. I.
High-speed thyristors on weakly doped GaAs 22 p3568 N84-32600
KOROLKOV, V. N.
Slip forms for the construction of PRessed CAst-in-Situ concrete linings for shield tunneling
[AD-A139411] 14 p2134 N84-23792
KORORKIN, S. N.
Mechanical properties of components made from powders received by processing low-grade porous titanium 23 p3707 N84-33500
KOROSEC, M. A.
Geochemical analyses, age dates, and flow-volume estimates for quaternary volcanic rocks, Southern Cascade Mountains, Washington
[DE84-007662] 15 p2368 N84-25211
Geological and geothermal investigation of the lower Wind River valley southwestern Washington Cascade Range
[DE84-012545] 21 p3431 N84-31771
Summary of geothermal exploration activity in the State of Washington from 1978 - 1983
[DE84-014863] 23 p3784 N84-33999
KORSHAK, V. V.
Synthesis of polyamides from diamines of the fluorene series
[NASA-TM-77398] 10 p1451 N84-19476
KORSMO, E. P.
Application of image processing technology to problems in manuscript encapsulation
[NASA-CR-173200] 07 p1007 N84-16528
KORST, H. H.
Fluid dynamic mechanisms and interactions within separated flows and their effects on missile aerodynamics
[AD-A130831] 01 p0079 N84-10514
KORTAN, A. R.
Structure and phase transitions in bromine and potassium-mercury intercalated graphite
[AD-A133863] 05 p0645 N84-14244
X-ray diffuse scattering 22 p3682 N84-33341
KORTEN, M.
A high resolution system for analogue recording and digital processing of measured values in fusion research
[JUEL-1909] 23 p3752 N84-33786
KORTH, A.
Observations of the GEOS-2 equilibrium potential and its relation to the ambient electron energy distribution 08 p1116 N84-17256
The ISPM energetic panel particle composition experiment 09 p1261 N84-18233
KORTH, G. E.
Tensile and low-cycle fatigue measurements on cross-rolled tungsten at 1505 K
[DE84-000805] 04 p0499 N84-13273
KORTING, P. A. O. G.
Solid fuel combustion chamber
[VTH-LR-392] 12 p1803 N84-21756
Flow pattern in an indoor rocket test stand during static firing of solid propellant rocket motors
[PML-1983-40] 17 p2614 N84-26731
KORTMAN, P. J.
A proposed RF-technology R/D plan for the United States
[DE84-000643] 04 p0522 N84-13434
KORTRIGHT, J.
Structural studies of amorphous Mo-Ge alloys through the semiconductor-metal transition
[DE83-016525] 02 p0299 N84-11964
KORYAVIN, L.
Izvestiya assails U.S. military space plans 19 p2978 N84-28877
KORZ, N. J.
Grinding of cast iron with wheels made of superhard materials
[CSIR-TRANS-1687] 01 p0056 N84-10368
KORZH, S. V.
Anthropometric indicators of submariners 11 p1694 N84-21049
KOSAKOVSKAYA, I. V.
Effects of prolonged weightlessness on orchidaceae proteins 23 p3805 N84-34130
KOSCHEL, G.
Development and qualification of a 20 GHz/30 W traveling wave tube
[BMFT-FB-W-83-023] 10 p1488 N84-19727
KOSCHMIEDER, D.
Investigation of the earthquake behavior of the research reactor FRJ-2 (DIDO)
[JUEL-SPEZ-222] 12 p1848 N84-22047
KOSCIELNY, A. J.
Real time divergence measurement from single Doppler radar
[AD-A140558] 17 p2653 N84-26966
An evaluation of the accuracy of some radar wind profiling techniques 17 p2687 N84-27109
KOSCIELSKI, C. G.
Mojave base station implementation 22 p3575 N84-32643
KOSCO, W. J.
Antarctic mapping and international coordination 14 p2160 N84-23935
KOSHIBA, M.
Properties of UV-curable polyurethane acrylates: Effect of reactive diluent
[AD-A143241] 22 p3559 N84-32540
KOSHIDE, S.
Strain analysis of thin composites with Moire method
[NAL-TR-754] 04 p0548 N84-13612
Creep deformation measurement of polymer strips after buckling by Moire method
[NAL-TR-789] 16 p2501 N84-26055
KOSHIGOE, L. G.
Thermophysical property determination using transient techniques
[AD-A130707] 01 p0156 N84-11027
Specific heat of octahydro-1,3,5,7tetranitro-1,3,5,7-tetrazocine (HMX)
[AD-A134564] 07 p0966 N84-16260
KOSHIMA, K.
Characteristics of grindability of P/M high speed steel: Influence of peripheral wheel speed on wheel wear and surface quality 07 p0984 N84-16371
KOSHISHI, H.
Lunar exploration by polar orbiter
[NAL-TR-755] 09 p1416 N84-19265
KOSHLYAKOV, V. N.
Equations in Rodrigues-Hamilton parameters for heavy solid body rotating about fixed point 17 p2643 N84-26908
KOSHY, V. K.
Directivity and spacing for the antenna elements 17 p2693 N84-27154
KOSICHKIN, Y. V.
Picosecond parametric optical oscillator with amplification of radiation from tunable semiconductor laser 21 p3487 N84-32097
KOSIEWICZ, C. E.
Passive solar design procedures for Naval installations
[AD-A136329] 09 p1341 N84-18760
KOSKI, J. A.
Sensitivity and accuracy analysis of pulse diffusivity measurements on layered samples
[DE84-002104] 08 p1165 N84-17584
KOSLOW, J. R.
A syntax directed editor environment
[AD-A138009] 12 p1879 N84-22248
KOSMAHL, H. G.
Ladder supported ring bar circuit
[NASA-CASE-LEW-13570-1] 07 p0995 N84-16452
A TWT amplifier with a linear power transfer characteristic and improved efficiency
[NASA-TM-83590] 12 p1810 N84-21803
Dielectric based submillimeter backward wave oscillator circuit
[NASA-CASE-LEW-13736-1] 18 p2831 N84-27974
KOSMYNINA, M. R.
Stabilization of thickness of zinc coating by adaptive system of control
[BLL-M-35367-(5828.4)] 09 p1281 N84-18364

KOSOBUD, R. F.
CO2 forecasting and control: A mathematical approach
[DE84-013454] 21 p3449 N84-31682
KOSS, D. A.
Hydrogen embrittlement of titanium sheet under multiaxial deformation paths
[AD-A133846] 05 p0654 N84-14298
Deformation and fracture of P/M titanium alloys
[AD-A135612] 09 p1283 N84-18378
KOSSON, R.
Improved monogroove heat pipe design: Insulated liquid channel with bridging wick
[NASA-CASE-MSC-20497-1] 24 p3899 N84-34692
KOSSOVER, D.
On-site survey and analysis of pyrotechnic mixer bays
[AD-A139485] 14 p2132 N84-23779
KOSTAL, H.
An empirical Bayes approach to spatial analysis
03 p0393 N84-12563
KOSTAREV, I. V.
Multi-transition stamping of components with thin body and tall stiffening ribs
[BLL-M-35384-(5828.4)] 08 p1140 N84-17415
KOSTENKO, V. I.
Three-element radiointerferometer with very long baselines 19 p2974 N84-26853
KOSTIN, V. A.
Precision photometer for measurement of low levels of maximum power of pulses laser radiation
17 p2638 N84-26873
KOSTISHACK, D. F.
A search for Earth-crossing asteroids, supplement
[NASA-CR-173255] 07 p1092 N84-17101
A search for Earth-crossing asteroids
[NASA-CR-175374] 08 p1245 N84-18139
KOSTIUK, T.
Spaceborne sensors (1983-2000 AD): A forecast of technology
[NASA-TM-86063] 17 p2616 N84-26743
Thermal bifurcation in the upper solar photosphere inferred from heterodyne spectroscopy of OH rotational lines
[NASA-TM-86128] 17 p2761 N84-27654
KOSTKA, D.
Shock compaction of molybdenum powder
[NASA-CR-173154] 08 p1133 N84-17369
KOSTLAN, E.
Some recent progress in steep front calculations for porous flow
[DE84-008249] 19 p3025 N84-29183
KOSTORNOV, A. G.
Highly porous powder-fiber composite materials
24 p3872 N84-34538
KOSTROMIN, S. G.
Impact of laser radiation on optical properties of polymer liquid crystal in phase transition range
20 p3288 N84-30868
KOSTUK, R.
Optical computing research
[AD-A143994] 23 p3825 N84-34258
KOSTYGOVA, O. V.
Influence of alloying on the properties of nickel in the solid and liquid states
[BLL-M-35284-(5828.4)] 06 p0803 N84-15232
KOSTYUCHENKO, A. L.
Immediate effects of hyperbaric oxygenation on body oxygen supply 21 p3455 N84-31923
KOSTYUKOVA, O. I.
Two-phase methods of solving canonical problem of linear programming 21 p3484 N84-32078
KOSUGI, T.
Acceleration and confinement of energetic particles in the 7 June 1980 solar flare
[NASA-CR-173545] 16 p2580 N84-26550
Microwave and X-ray observations of delayed brightenings at sites remote from the primary flare locations
[NASA-TM-86140] 22 p3680 N84-33326
KOSUT, R. L.
Vibration Control Of Space Structures VCOSS A: High and low-authority hardware implementations
[AD-A139931] 15 p2281 N84-24702
KOSY, D. W.
Knowledge-based support systems for long range planning
[AD-A137311] 10 p1591 N84-20424
KOSYGIN, V. Y.
Local gravity anomalies and crustal density inhomogeneities in southern Kurile Islands
17 p2701 N84-27205
Optimum density structure of upper mantle along Japan - Shatskiy Rise - Emperor Sea mounts geotraverse
17 p2704 N84-27220
KOSZENSKI, E. P.
Static feed water electrolysis subsystem testing and component development
[NASA-CR-166539] 08 p1205 N84-17856
KOT, C. A.
Shock wave absorber having a deformable liner
[DE84-011308] 20 p3186 N84-30243
KOT, R. A.
Design considerations for a monolithic, GaAs, dual-mode, QPSK/QASK, high-throughput rate transceiver
[NASA-CR-173560] 15 p2327 N84-24974
KOTANI, M.
Nonlinear dynamics in excitable nerve membranes
21 p3477 N84-32037
KOTANSKY, D. R.
Jet flowfields 16 p2437 N84-25631
KOTARO, Y.
Development of low temperature cure epoxy paint for offshore steel structures in cold areas
[NRC/CNR-TT-2078] 11 p1636 N84-20694
KOTELNIKOV, V. A.
Astron satellite 12 p1775 N84-21576
KOTELNIKOV, V. U.
Experimental study of stress-deformed state of three-layer shells made with anisotropic high-module composite materials 24 p3868 N84-34514
KOTENEV, V. I.
Influence of vibration grinding on the properties of tungsten powders and the quality of sintered pieces
[BLL-M-35373] 08 p1140 N84-17414
KOTERAS, J. R.
Structural analysis of a glass/space frame parabolic-trough solar collector for various operating positions
[DE84-001137] 04 p0550 N84-13622
Frequency and mode shape calculations for vertical axis wind turbines using reduction techniques and complex eigensolvers
[DE84-003316] 08 p1172 N84-17633
KOTEWEVA, V. Y.
Influence of vibration grinding on the properties of tungsten powders and the quality of sintered pieces
[BLL-M-35373] 08 p1140 N84-17414
KOTFILA, R. J.
Measurement of hydrogen in high strength steels using the barnacle electrode
[AD-A139655] 15 p2297 N84-24784
KOTLAR, A. J.
Intracavity laser excitation of NCO fluorescence in an atmospheric pressure flame
[AD-A134740] 08 p1164 N84-17579
KOTLARCHYK, M.
Photon correlation spectroscopy and applications
22 p3683 N84-33352
KOTOMTSEVA, L. A.
Selfpulsing, hysteresis and chaos in a standing wave laser 14 p2239 N84-24439
KOTON, M. M.
Polymerisation of acrolein and its derivatives. 2: Polymerisation of acrolein and alpha-alkyl substituted acrolein in the presence of metallic sodium
[BLL-M-28708-(5828.4)] 01 p0048 N84-10308
KOTOV, A. I.
Supersonic jet-cavity interaction pulsation
21 p3485 N84-32089
KOTOV, P. I.
Estimation of local stress intensity in flanged thin-wall shell structures under heavy thermal load
13 p1972 N84-22799
Stressed-strained state of flanged shells under heavy thermal load beyond elastic limit
13 p1972 N84-22800
KOTOV, V.
Measurements of the solar 160 min oscillation at the Metsaehovi radio research station in 1980-1982 and comparison with the results at the Crimean Astrophysical Observatory
[REPT-S-136] 09 p1416 N84-19268
KOTOVSKIY, V. N.
Mathematical modeling of transient separation flow around circular cylinder 17 p2644 N84-26916
KOTOWSKI, R. K.
Hamiltonian for antisotropic bodies with defects
[ISSN-0208-5658] 03 p0451 N84-12966
KOTSCHENREUTHER, M.
Nonlinear dynamics of magnetic islands with curvature and pressure
[DE84-010968] 20 p3285 N84-30859
KOTSERZHINSKIY, B. A.
Utilization of nonlinear properties of IMPATT-diodes in microwave devices (survey) 22 p3569 N84-32603
Approximation models for electrodynamic systems in solid state millimetric wave devices
22 p3569 N84-32606
KOTSUBO, S.
Frequency characteristics of spring constants of a suspended transmission line 07 p0982 N84-16361
KOTTENSTETTE, J. P.
Training and performance support system: A new dimension in individualized instruction
[AD-P003315] 18 p2910 N84-28454
KOTTHAUS, J. P.
Air as an adjustable insulator for C-V and G-V analysis of semiconductor surfaces
[AD-A141437] 19 p3013 N84-29099
KOTTLER, R. J., JR.
Ocean Energy Technology Program
[DE84-012052] 20 p3236 N84-30542
KOTTOWSKI, H. M.
Thermohydraulics in liquid metals
06 p0842 N84-15491
Liquid metal experimental facilities
06 p0842 N84-15492
KOTZ, S.
Moment estimators of defect pattern frequencies, allowing for inspection error
[AD-A133487] 06 p0855 N84-15568
Inspection errors in link sampling
[AD-A135836] 09 p1382 N84-19029
Correlation structure in iterated Farlie-Gumbel-Morgenstern distributions
[AD-A137055] 10 p1571 N84-20293
An estimation problem in faulty inspection sampling, revised
[AD-A141247] 18 p2851 N84-28103
KOUKOS, J.
Autonomous Integrated Receive System (AIRS) requirements definition. Volume 3: Performance and simulation
[NASA-CR-175263] 22 p3576 N84-32648
KOUNO, I.
Fluid-dynamic error in measurement of periodic flow by spherical yawmeter and flow separation on yawmeter head 07 p0983 N84-16369
KOURI, J. V.
A variational method for calculating the natural frequencies and mode shapes of a cantilevered open cylindrical shell
[AD-A136901] 10 p1517 N84-19932
KOUROUPIS, J.
Temperature controlled adjusting mechanism
[AD-D011077] 21 p3406 N84-31601
KOURTIDES, D. A.
Optimization of aircraft seat cushion fire blocking layers
[NASA-TM-85430] 01 p0006 N84-10037
Curing of epoxy resins with 1-DI(2-chloroethoxyphosphinyl) methyl-2,4 and -2,6-diaminobenzene
[NASA-TM-84350] 02 p0186 N84-11212
Polymers of phosphonylmethyl-2,4- and -2,6-diamino benzenes and the like
[NASA-CASE-ARC-11506-1] 03 p0356 N84-12313
Fire-retardant decorative inks for aircraft interiors
[NASA-TM-85876] 10 p1451 N84-19475
Fire resistant polymers based on 1-((dialkoxyphosphonyl)methyl)-2,4- and -2,6-diaminobenzenes
[NASA-CASE-ARC-11512-1] 11 p1637 N84-20702
Synthesis and characterization of phosphorus-containing polyamides and copolyamides based on 1methyl}-2,4- and -2,6-diaminobenzenes
[NASA-TM-85877] 22 p3543 N84-32431
Fire blocking systems for aircraft seat cushions
[NASA-CASE-ARC-11423-1] 23 p3691 N84-33394
KOUSKY, V. E.
The southern oscilation: Oceanic-atmospheric circulation changes and related rainfall anomalies
[INPE-2903-PRE/420] 02 p0253 N84-11656
Blocking in the Southern Hemisphere, during 1975-1979
[INPE-2994-PRE/446] 07 p1032 N84-16696
Southern oscillation-El Nino events: Characteristics, evolution, and precipitation anomalies
[INPE-2976-PRE/438] 22 p3627 N84-32983
KOVACOVA, E.
Lack of an effect of corpuscular vaccine against I phase Q-fever on persistence and reactivation of Coxiella burnetii infection in mouse and guinea pigs tissue
17 p2741 N84-27402
KOVACS, A.
Detection of cavities under concrete pavement
[AD-A131851] 03 p0358 N84-12331
Electromagnetic properties of sea ice
[AD-A140330] 16 p2534 N84-26268
KOVACS, E.
Weak coupling tests of lattice QCD
[DE84-013440] 23 p3831 N84-34299

KOVAL, L. R.
Field-incidence transmission of treated orthotropic and laminated composite panels
[NASA-TM-85680] 01 p0139 N84-10911
KOVALA, P.
Vertical sections of oxygen, phosphate, silicate, nitrate and nitrite from the NORPAX Shuttle Experiment
[PB84-138759] 11 p1692 N84-21036
KOVALCHIK, J. G.
Performance evaluation tools for a multi-backend database system
[AD-A141786] 19 p3116 N84-29800
KOVALCHUK, T. M.
Improvement of heat treatment of tubes of steel 15Kh5M
[BLL-M-35545-(5828.4)] 17 p2621 N84-26774
KOVALCHUK, Y. V.
New phase transition in Si and GaAs exposed to picosecond laser pulses 20 p3286 N84-30866
KOVALENKO, V. S.
Small orifice laser cutting machine viewed 24 p3891 N84-34642
KOVALENKO, Y. A.
Contributions of space medicine to medical research 14 p2251 N84-24517
New book on metabolism under hypodynamic conditions 15 p2378 N84-25271
KOVALENOK, V.
Techniques and instruments for cosmonaut remote sensing 12 p1775 N84-21575
KOVALENSKY, J.
Comments on conventional terrestrial and quasi-inertial reference systems 07 p1029 N84-16669
KOVALEV, V. V.
Effect of protective gas composition on seam formation during laser welding 24 p3870 N84-34524
KOVALEVSKY, N.
Software development guidelines
[NASA-CR-171748] 09 p1366 N84-18919
KOVALSKAYA, G. A.
Heat transfer by radiation in hydrogen plasma 21 p3488 N84-32106
KOVARSKAYA, B. M.
Synthesis of polyheteroarylenes for highly heat-resistant materials
[AD-A140610] 17 p2626 N84-26804
KOVARSKIJ, N. Y.
Deposition of polymer films on metal by the electrolysis of aqueous solutions of vinyl monomers
[BLL-LTS-1200/83-(5828.4F)] 08 p1136 N84-17386
KOVNERISTYY, Y. K.
Amorphous metallic materials 24 p3870 N84-34528
KOVRYGINA, L. M.
Cutoff for solar cosmic rays in Earth's magnetosphere in magnetically quiet periods 19 p2973 N84-28849
KOVTUN, A.
Production of extra-pure iron for cermet bearings 23 p3707 N84-33501
KOVYAZIN, V. I.
Algorithms of adaptive Markov filtration of noisy speech signals 17 p2630 N84-26822
KOWALCHIK, L. A.
Testing of candidate batteries for global positioning system 23 p3736 N84-33677
High rate discharge studies of Li/SO2 batteries 23 p3737 N84-33680
KOWALCZYK, S. P.
Theoretical and experimental investigation of heterojunction interfaces
[AD-A135896] 09 p1395 N84-19111
KOWALSKI, B. R.
Multivariate curve resolution in liquid chromatography
[DE84-013797] 22 p3549 N84-32466
KOWEL, S. T.
Polymeric microelectronics
[AD-A130523] 01 p0049 N84-10317
Surface acoustic wave/silicon monolithic sensor/processor
[NASA-CR-174541] 01 p0056 N84-10366
KOWLER, E.
Eye movements and visual information processing
[AD-A140438] 16 p2538 N84-26296
KOYAMA, M.
Lunar exploration by polar orbiter
[NAL-TR-755] 09 p1416 N84-19265
KOYANAGI, R. S.
The NESDIS-SEL Lear aircraft instruments and data recording system
[NOAA-TR-NESDIS-9] 17 p2607 N84-26698
KOYDAN, V. S.
Production of dense plasma column in strong magnetic fields and its diagnosis by laser methods 21 p3488 N84-32104
KOYUNCU, Y.
Report of tests of a compressor configuration of CD (Controlled Diffusion) blading
[AD-A143499] 22 p3604 N84-32832
KOZAK, R. C.
Radar backscatter modelling 13 p2088 N84-23525
KOZAR, V. I.
Influence of alloying on the properties of nickel in the solid and liquid states
[BLL-M-35284-(5828.4)] 06 p0803 N84-15232
KOZEL, P.
The effect of superposing ripple loading of maneuver load cycles
[AD-A132653] 06 p0786 N84-15148
KOZHEVNIKOV, V.
Ocean color studies from Salyut-7 05 p0633 N84-14164
KOZLOV, A. G.
Amorphous materials from precision alloys
[BLL-M-35179-(5828.4)] 01 p0041 N84-10264
KOZLOV, A. N.
Evaluation of some hemodynamic parameters of pilots during flights 15 p2376 N84-25256
KOZLOV, L. Y.
Influence of alloying on the properties of nickel in the solid and liquid states
[BLL-M-35284-(5828.4)] 06 p0803 N84-15232
KOZLOV, S. I.
Ion kinetics, minor neutral and excited components in D-region with high level of ionization 19 p2973 N84-28848
KOZLOV, V. A.
Large-signal amplifier based on ferrimagnetic echo 21 p3378 N84-31440
KOZLOV, V. V.
Effect of acoustic perturbations on flow structure in boundary layer with unfavorable pressure gradient 17 p2648 N84-26935
Formation of coherent structures by acoustical effects in a turbulent wake 21 p3480 N84-32055
KOZLOV, Y. M.
Static methods in the design of nonlinear automatic control systems
[AD-A143297] 22 p3644 N84-33101
KOZLOVA, T. M.
Resistance of microorganisms from mesosphere to periodic freezing-thawing 22 p3630 N84-33001
KOZLOVA, V. G.
G suit of bladderless type as a means of improving orthostatic stability after water immersion hypokinesia nd exposure to accelerations 07 p1045 N84-16775
Muscle tone changes in individuals of different age groups submitted to simulated weightlessness 12 p1864 N84-22150
Adaptive effects of repeated immersion on man 15 p2376 N84-25258
KOZLOVSKAYA, I. B.
Evaluation of skeletal muscle tone by recording lateral rigidity 02 p0262 N84-11717
KOZLOVSKIY, A. P.
Study of vibration resonance frequencies in rats 07 p1046 N84-16784
Evaluation of changes in human axial skeletal bone structures during long-term spaceflights 15 p2375 N84-25251
KOZLOVSKIY, V. A.
Functional status in relation to work, performance and health 18 p2895 N84-28366
KOZLOVSKY, B.
Nuclear processes in the jets of SS433
[NASA-TM-86109] 16 p2582 N84-26560
KOZLOWSKI, G.
Anomalous surface impedance in reentrant ferromagnetic superconductors
[DE84-012634] 22 p3664 N84-33230
KOZMA, A.
Modeling of SAR signatures of shallow water ocean topography 17 p2718 N84-27302
KOZMA, J.
Academician Vamos interviewed on automation related problems 24 p3944 N84-34972
KOZMAN, T. A.
Leak testing and repair of fusion devices
[DE83-014942] 02 p0296 N84-11944
KOZUMA, R.
Engineering services in support of the AFGL sounding rocket program
[AD-A131929] 03 p0340 N84-12211
KOZYARIN, I. P.
Animal sensitivity to super-high frequency electromagnetic fields in correlation to age 07 p1043 N84-16786
KOZYREV, A. B.
Superconductive films in microwave microelectronics (survey) 22 p3569 N84-32604
KOZYREVA, T. V.
Effects of adaptation to hot climate on thermoreception 18 p2896 N84-28375
Criteria of human cold adaptation 18 p2897 N84-28381
KRAEMER, F.
Results of the simultaneous Doppler measuring campaign HOTDOC from 29 September to 10 October 1979 08 p1174 N84-17648
KRAEMER, G. O.
Interaction of two-dimensional transverse jet with a supersonic mainstream
[NASA-CR-175446] 11 p1602 N84-20492
KRAEMER, J.
NAVSTAR GPS simulation and analysis program
[PB84-134402] 10 p1427 N84-19332
KRAFT, A.
Methodical layout of mechanical systems with regard to optimum vibrational behavior
[REPT-38] 12 p1825 N84-21898
KRAFT, E. M.
A review and an update of the FDP Specialists Meeting (London) on Wall Interference in Wind Tunnels 14 p2095 N84-23570
KRAFT, R.
Terrain travel simulation: Data and application
[AD-P003359] 18 p2912 N84-28472
KRAFT, R. N.
Psychological research on advanced terrain representation: Formatting the visual material
[AD-A139782] 15 p2382 N84-25288
KRAFT, R. P.
Employment of adaptive learning techniques for the discrimination of acoustic emissions
[AD-A138142] 12 p1899 N84-22366
KRAFT, V. V.
Evaluation of the effect of non-metallic inclusions in steel electrodes on the frequency of flashbacks in mercury-arc rectifiers
[BLL-ERA-TRANS-3002/23] 17 p2662 N84-26962
KRAG, B.
Gusts simulation for flight-mechanical investigations in wind tunnels 07 p0944 N84-16127
Measurement of the flow field behind harmonically oscillating gust generators in the model subsonic wind tunnel (MUK)
[ESA-TT-806] 16 p2487 N84-25953
KRAGELSKIY, I. V.
Dependence of realizability of selective mass transfer during friction of aluminum bronzes against steel on composition of lubricating fluid 17 p2641 N84-26901
Dependence of realizability of selective mass transfer during friction of tin bronzes against steel in hydraulic system mechanisms on concentration of alloying elements 17 p2642 N84-26902
KRAGL, W.
Central heat pump units: Problems of heat output control
[BMFT-FB-T-83-159] 05 p0681 N84-14480
KRAHENBUHL, G. S.
Biochemical measurements of the human stress response
[AD-A139381] 14 p2184 N84-24069
KRAIGER, K.
Affective determinants of job perceptions
[AD-P003258] 18 p2905 N84-28425
KRAJCI, G. S.
Laser velocimeter optical traverse scheme: An investigation of a proposed optical scanning technique for Arnold Engineering and Development Center's four-foot transonic wind tunnel
[AD-A138166] 12 p1818 N84-21853
KRAJEWSKI, W.
Diffusion films produced by heat treatment of electroplated coatings
[BLL-OA-TRANS-3082-(6196.3)] 06 p0804 N84-15237
KRAJNOVICH, D. J.
Molecular-beam studies of photodissociation reactions
[DE83-015962] 02 p0228 N84-11492
KRAKAT, K.
Report on development, installation of industrial robots 02 p0205 N84-11339
KRAKOWSKI, R. A.
Materials needs for compact fusion reactors
[DE84-001366] 04 p0611 N84-14031
Modular stellarator reactor: A Fusion power plant
[DE84-002268] 07 p1077 N84-17001
Plasma engineering design of a Compact Reversed-Field Pinch Reactor (CRFPR)
[DE84-004334] 10 p1586 N84-20394
KRALL, K. M.
Afterbody propulsor performance validation for A 2.65 fineness ratio body advanced tactical vehicle
[AD-A131259] 01 p0080 N84-10517

KRALL, N. A.
The 2-step ECRH current-drive study
[DE83-012745] 01 p0150 N84-10983
KRAMARENKO, I. V.
Microstructure of aluminum alloy in early stages of spalling 12 p1783 N84-21634
KRAMER, A.
Psychophysiological tools in engineering psychology
[AD-P003337] 18 p2911 N84-28461
KRAMER, D. P.
Determination of the optimum crystallization conditions of a high thermal expansion glass-ceramic
[DE84-009734] 19 p3000 N84-29014
KRAMER, I. R.
Surface layer effects on the mechanical behavior of metals
[AD-A142280] 20 p3152 N84-30018
KRAMER, J. J.
Laser surface hardened patterns for increased ballistic protection
[AD-A130385] 01 p0043 N84-10277
KRAMER, L. C.
A comparison of two air defense command and control models
[AD-P002876] 13 p1977 N84-22837
KRAMER, M.
Porous electrodes 1: Numerical simulation using random network and single pore models
[AD-A138382] 12 p1793 N84-21695
KRAMER, M. A.
Operation of the Brookhaven MPS Facility
[DE83-015383] 03 p0441 N84-12896
KRAMER, M. J.
Crustal deformation, the earthquake cycle, and models of viscoelastic flow in the asthenosphere
[NASA-TM-85117] 03 p0407 N84-12662
KRAMER, M. R.
Systolic computation and VLSI
08 p1206 N84-17877
KRAMER, S. D.
Direct measurement of a VUV transition oscillator strength in xenon
[DE84-008555] 18 p2941 N84-28655
Resonance ionization spectroscopy of argon, krypton and xenon using vacuum ultraviolet light
[DE84-011655] 20 p3150 N84-30006
KRAMER, S. L.
Relativistic-beam pickup test facility
[DE83-017929] 04 p0600 N84-13962
KRAMER, T.
Evaluation of propellant tank insulation concepts for low-thrust chemical propulsion systems
[NASA-CR-168320] 11 p1625 N84-20634
Evaluation of propellent tank insulation concepts for low-thrust chemical propulsion systems: Executive summary
[NASA-CR-168321] 11 p1636 N84-20699
KRAMER, W. M.
Multispectral linear array visible and shortwave infrared sensors 23 p3781 N84-33977
KRANE, K. S.
Phase transformation study of Cu2S
[AD-A135587] 09 p1279 N84-18352
TDPAC (Time Differential Perturbed Angular Correlations) study of liquid and amorphous se sub (1-x)Te sub x alloys
[AD-A135588] 09 p1279 N84-18353
KRANE, R. J.
A study of thermal properties and the heating process in asphaltic concrete
[AD-A141691] 19 p3035 N84-29254
KRANER, H. W.
Characterization of alloy 600 surfaces after exposure to a caustic environment
[DE83-018297] 04 p0503 N84-13300
Radiation damage in silicon detectors
[DE84-001460] 04 p0614 N84-14056
Determining of surface oxide compositions on Alloy 600 using Rutherford backscattering
[DE84-002872] 15 p2299 N84-24797
KRANTZ, A. D.
Systems integration of photovoltaic and passive solar
16 p2513 N84-26129
KRANYE, Z.
Diffuse auroral zone. Part 7: Dynamics of equatorial boundary in field of diffuse electron spill in evening sector 19 p2973 N84-28846
KRAPP, C. W.
Water level measurement network computer file
[DE84-005388] 11 p1672 N84-20909
KRARUP, T.
The Danish method: Experience and philosophy
16 p2505 N84-26078
KRASHTERKA, M.
Equipment for monitoring and control of television transmitters 21 p3378 N84-31435
KRASILNIKOVA, T. N.
Calculation of the statistical characteristics of surface
[NASA-TM-77462] 20 p3183 N84-30222
KRASILSHCHIKOV, S. N.
Conditions of filtration burning of porous condensed systems with multiple passage of reaction wave
21 p3483 N84-32076
KRASINSKI, J.
Intrinsic instabilities in homogeneously broadened lasers 14 p2235 N84-24411
KRASKA, I. R.
Ultrasonic inspection for roadwheel bondline quality
[AD-A132608] 05 p0690 N84-14531
KRASKINA, O. A.
Effect of stretch rate on texture and mechanical properties of nickel-cobalt alloys
24 p3869 N84-34521
KRASNOBAYEV, K. V.
Flow of stellar wind past X-radiation source
17 p2645 N84-26920
KRASNOSCEK, J. S.
Wheel efficiency in the diamond-spark erosion grinding of tungsten carbides
[CSIR-TRANS-1693] 08 p1140 N84-17418
KRASNY, R.
Numerical study of Kelvin-Helmholtz instability by the point vortex method
[DE84-006613] 11 p1654 N84-20797
KRASS, M. S.
Glaciology, volume 3: The mathematical theory of glaciomechanics
[ISSN-0202-7283] 19 p3038 N84-29274
KRASSNER, J.
Observations of the unidentified 3.3 microns emission feature in compact HII regions 06 p0937 N84-16089
KRASULIN, Y. L.
Creep of LaCrO-3Cr ceramic-metallic material
24 p3877 N84-34568
KRATSCHMER, E.
Experimental and theoretical studies of electron beam lithography for the fabrication of semiconductor circuits with submicron dimensions: Water distortion, comparison of results
[BMFT-FB-T-83-088] 02 p0216 N84-11414
KRATZ, K. L.
Evaluation of process systems for effective management of aluminum finishing wastewaters and sludges
[PB84-170661] 16 p2520 N84-26178
KRATZER, R. H.
Synthesis of perfluoroalkylene dianilines
[NASA-CR-168004] 02 p0189 N84-11228
Thermal oxidative degradation reactions of perfluoroalkdethers
[NASA-CR-168224] 02 p0189 N84-11229
KRAUS, J.
Intelligent infrared sensor
[BMFT-FB-T-84-092] 22 p3658 N84-33189
KRAUS, K.
Technical use of solar energy: Conversion from solar to thermal energy, solar cooling and thermal energy storage
[BMFT-FB-T-83-300] 15 p2362 N84-25173
KRAUS, W.
The eddy field of the Central North Atlantic
[AD-P002664] 11 p1691 N84-21029
KRAUSE-POLSTORFF, J. W.
Self-consistent magnetosphere for a static aligned rotator 04 p0619 N84-14085
KRAUSE, D., JR.
Isotope effects in the solution of gases in liquids
[DE84-014848] 23 p3715 N84-33549
KRAUSE, E.
A contribution to the problem of vortex breakdown
03 p0325 N84-12125
Finite-difference approximations of the Navier-Stokes equations for incompressible flows
06 p0835 N84-15434
KRAUSE, M.
Massed practice: Does it change the statistical properties of performance tests?
[AD-A139338] 15 p2383 N84-25294
KRAUSE, N.
Superconducting resonators
[BMFT-FB-T-84-119] 23 p3831 N84-34303
KRAUSE, R.
Cycle of waste heat energy transformation
[BMFT-FB-T-83-173] 07 p1026 N84-16652
KRAUSE, W.
Generation of ultra-short laser pulses in the visible and near infrared for a spaceborne laser ranging transmitter
24 p3906 N84-34740
Circular-scan photochron streak camera for spaceborne laser ranging applications 24 p3906 N84-34741
KRAUSHAAR, W. L.
Limits on soft X-ray flux from distant emission regions
[NASA-CR-173591] 16 p2582 N84-26558
KRAUSMAN, E. W.
Printed circuit board layout by microcomputer
[AD-A138427] 12 p1813 N84-21816
KRAUSS, A. R.
Modification of alloy surface composition by segregation processes as a means of impurity control in fusion devices
[DE84-003645] 08 p1134 N84-17373
KRAUSS, G.
Carbide formation and fracture of high carbon steel
[AD-A138519] 12 p1798 N84-21730
KRAUSS, M.
Application of quantum chemistry to atmospheric chemistry
[AD-A133836] 05 p0648 N84-14261
KRAUSS, R. J.
Applications of the AVE-Sesame data sets to mesoscale studies 24 p3931 N84-34886
KRAUSZ, A. S.
A united fracture kinetics representation of the three regions of stress corrosion cracking
15 p2307 N84-24842
KRAUSZ, K.
A united fracture kinetics representation of the three regions of stress corrosion cracking
15 p2307 N84-24842
KRAUT, E. A.
Theoretical and experimental investigation of heterojunction interfaces
[AD-A135896] 09 p1395 N84-19111
KRAUTHAMER, S.
Photovoltaic power conditioning subsystem: State of the art and development opportunities
[NASA-CR-173458] 12 p1842 N84-22009
KRAUYA, U. E.
The mechanoluminescence of fibreglass tubes in the plane stressed state
[DRIC-T-7014] 09 p1328 N84-18673
KRAUZE, J.
Transonic flow over an isolated profile and through a cascade of blade. Phenomenological analysis
05 p0626 N84-14118
KRAVCHENKO, V. B.
Fiber optic light guides based on polymer coated multicomponent glasses 21 p3487 N84-32100
KRAVETS, V. V.
Separation flow at concave conical wings
17 p2647 N84-26933
KRAVTSOV, A.
Results from first series of Elektrotopograf experiments 12 p1774 N84-21570
KRAWCZAK, J. A.
Magneto-optic garnet and liquid crystal optical switches 12 p1905 N84-22410
KRAWCZYK, R.
Internal iteration methods 16 p2541 N84-26308
KRAYEVSKAYA, Y. I.
Synthesis of polyheteroarylenes for highly heat-resistant materials
[AD-A140610] 17 p2626 N84-26804
KRAYNIK, A. M.
Helical screw rheometer: A new concept in rotational rheometry
[DE84-004055] 14 p2149 N84-23873
Helical screw viscometer
[DE84-011111] 20 p3189 N84-30261
KRAZINSKI, J. L.
Determination of thermal-degradation rates of some candidate Rankine-cycle organic working fluids for conversion of industrial waste heat into power
[DE84-009585] 20 p3197 N84-30304
KRECHKOVSKAYA, V. I.
Fracture resistance of hardened and tempered pipes of 16GFR steel
[BLL-M-35268-(5828.4)] 06 p0857 N84-15584
KREEB, H.
Heat pipes for the L-SAT communications module radiators 10 p1440 N84-19405
A new Traveling Wave Tube (TWT) cooling concept
10 p1445 N84-19438
KREHBIEL, P.
Mesoscale observations of lightning from Space Shuttle
[NASA-TM-86451] 22 p3598 N84-32788
KREHL, P. W.
Characterization of open circuit voltage and capacity as a function of time 23 p3736 N84-33673
KREIBICH, U. T.
Relationships between the glass transition, thermodynamic and mechanical values as possible sources of information correlating material properties with chemical structure
[BR-90008] 05 p0644 N84-14238

KREIJKAMP, H. A.
A data management and presentation tool for engineering and research
[NLR-MP-83044-U] 17 p2754 N84-27482
KREINDLER, E.
Minimum-fuel, 3-dimensional flightpath guidance of transfer jets
[NASA-TP-2326] 22 p3537 N84-32394
KREISEL, G. R.
US military aircraft cost handbook
[AD-A136035] 09 p1249 N84-18158
KREISS, H.
Numerical methods for stiff two-point boundary value problems
[AD-A136427] 09 p1375 N84-18981
KREISSELMEIER, G.
Systematic computer aided control design
01 p0015 N84-10100
KREITMAYR, U.
Chemical and isotopic measurements of micrometeoroids by secondary ion mass spectrometry (A0187-2) 15 p2276 N84-24670
KREITZBERG, C.
Effects of mesoscale weather distrubances on contamination concentrations
[DE84-005753] 13 p2010 N84-23036
KREITZBERG, C. W.
LAMPS software 24 p3931 N84-34884
KREJSA, E. A.
Cross spectra between pressure and temperature in a constant-area duct downstream of a hydrogen-fueled combustor
[NASA-TM-83463] 02 p0287 N84-11885
A theoretical model for the cross spectra between pressure and temperature downstream of a combustor
[NASA-TM-83671] 23 p3821 N84-34231
KREMENTSKIY, M. D.
More precise numerical simulation of transsonic flow through passages in turbomachines
13 p1970 N84-22786
KREMER, I. Y.
Using information on tangential target motion in space-time signal processing 21 p3487 N84-32101
KREMER, K.
Investigation of the statistical mechanics of linear polymers for various physical conditions
[JUEL-1832] 03 p0357 N84-12324
KREMER, R.
Microwave remote sensing experiment for first Spacelab mission
[BMFT-FB-W-83-022] 10 p1527 N84-20001
KREMERS, H.
Physical geodesy 10 p1520 N84-19950
KREMERS, J. H.
Machine intelligence research applied to industrial automation
[PB84-123348] 10 p1473 N84-19618
KRENZ, D.
Simulation of electro-servo-hydraulic actuator for high quality testing 03 p0340 N84-12206
KRENZ, G.
Transonic configuration design
03 p0318 N84-12081
Engine/airframe interference
03 p0319 N84-12085
KREPCHIN, I.
Steam bottoming cycle for an adiabatic diesel engine
[NASA-CR-168255] 22 p3676 N84-33304
KREPLIN, H. P.
Separation and vortical-type flow around a prolate spheroid: Evaluation of relevant parameters
03 p0323 N84-12113
KRESKOVSKY, J. P.
Further development of a method for computing three-dimensional subsonic viscous flows in turbofan lobe mixers
[NASA-CR-168304] 05 p0679 N84-14462
Computation of discrete slanted hole film cooling flow using the Navier-Stokes equations
[AD-A137022] 10 p1493 N84-19763
KRETNER, R.
Report on measurements of terrestrial radiation in the Schwandorf area and the radiological load of the river Naab
[GSF-A-6/83] 16 p2520 N84-26180
KRETSCHMAN, R. G.
Water resources data for Colorado, water year 1982. Volume 2: Colorado River Basin above Dolores River
[PB84-120138] 10 p1527 N84-20004
KRETSCHMER, D.
The effects of fuel composition upon heat transfer in gas turbine combustors 15 p2290 N84-24740
KRETSCHMER, F. F., JR.
Range-Doppler Moving Target Indicator (MTI) analysis and assessment
[AD-A139579] 14 p2141 N84-23836
Cascaded adaptive loops
[AD-D011116] 22 p3580 N84-32674
KRETSCHMER, K. H.
Micro-reactions of metal contacts on various types of GaAs surfaces
[AD-A139412] 14 p2242 N84-24464
KREUBIG, D.
Production of cubic crystalline boron nitride
[BMFT-FB-T-84-025] 16 p2471 N84-25836
KRIBS, H. D.
Automated Instructional Media Selection (AIMS)
[AD-A135749] 10 p1552 N84-20168
KRIDER, E. P.
Maxwell currents beneath thunderstorms
24 p3926 N84-34852
The optical characteristics of lightning
24 p3927 N84-34858
KRIEBEL, K. T.
Fundamental approaches for determining the radiation budget (and corresponding activities at Meteorologisches Institut, Munich (MIM) and Institut fuer Physik der Atmosphaere (IPA)) 10 p1535 N84-20053
KRIEFALL, H. J.
Horizontal geodesy control networks
10 p1519 N84-19943
KRIEGER, C. I.
Operational studies and expected performance of superconducting quadrupole magnets in the first stages of secondary beams
[DE83-016734] 03 p0456 N84-12999
KRIEGER, J. D.
Prerequisites for the establishment of a professional acquisition workforce
[AD-P002763] 13 p2052 N84-23310
KRIEGER, U.
Preparation of a design study for the construction of a 2 million tons/annum commercial scale hydrogenation plant
[BMFT-FB-T-83-135] 03 p0405 N84-12652
KRIER, H.
Deflagration to shock to detonation transition of energetic propellants
[AD-A144469] 24 p3890 N84-34632
KRIGBAUM, W. R.
An approach to molecular composites
[AD-A130192] 01 p0141 N84-10927
Electrohydrodynamic and flow instabilities in nematic polymers
[AD-A137812] 11 p1744 N84-21380
KRIJT, G. D.
Dispersion experiments with sulfur hexafluoride from the 213m high meteorological mast at Cabauw in the Netherlands 08 p1183 N84-17706
KRIKORIAN, A. D.
Developing higher plant systems in space
02 p0263 N84-11727
Cells, embryos and development in space
09 p1356 N84-18862
KRILE, T. F.
Space-variant optical systems
[AD-A130096] 01 p0146 N84-10961
Space-variant optical systems
[AD-A143996] 23 p3825 N84-34259
KRILIC, M. F.
A study of optimal computer network architecture for digital avionics systems
[AD-A138151] 12 p1770 N84-21545
KRILL, J. A.
Calculation procedures for variational, Born and exact solutions for electromagnetic scattering from two randomly separated dielectric Rayleigh cylinders
[AD-A138543] 13 p1982 N84-22865
KRIMIGIS, S. M.
The Active Magnetospheric Particle Tracer Explorers (AMPTE) program 05 p0641 N84-14216
The ISPM experiment for spectral, composition and anistropy measurements of charged particles at low energie 09 p1261 N84-18235
KRINSKY, I. S.
Anomalously high potentials observed on ISEE
[NASA-CR-172791] 08 p1115 N84-17252
Anomalously high potentials observed on ISEE
08 p1116 N84-17258
KRINSKY, S.
Some comments on the design of electron storage rings for free electron lasers
[DE84-002869] 07 p1010 N84-16553
KRINSLEY, D.
Erosion and transport of eolian materials on Mars
[NASA-CR-174569] 02 p0308 N84-12019
Abrasion by aeolian particles: Earth and Mars
[NASA-CR-3788] 11 p1628 N84-20654
KRISCHAN, J.
Considerations on the dimensioning of decay tanks for liquid radioactive wastes (basic methods and examples)
[OEFZS-4249] 18 p2931 N84-28586
KRISHNA, C. M.
Characterization of real-time computers
[NASA-CR-3807] 20 p3277 N84-30801
KRISHNA, R.
Environmental effects on the dynamics and control of an orbiting large flexible antenna system
[NASA-CR-175448] 11 p1623 N84-20627
Dynamics and control of flexible orbiting systems
14 p2245 N84-24481
The dynamics and control of large flexible space structures, part 7
[NASA-CR-173781] 19 p2981 N84-28892
KRISHNAIAH, P. R.
Likelihood ratio tests on covariance matrices and mean vectors of complex multivariate normal populations and their applications in time series
[AD-A131523] 01 p0133 N84-10874
Limit theorems for the eigenvalues of product of two random matrices
[AD-A131682] 03 p0425 N84-12787
Multivariate analysis and its applications
[AD-A140942] 18 p2925 N84-28549
Tests for sphericity under correlated multivariate regression equations model
[AD-A144658] 24 p3952 N84-35024
KRISHNAMURTHY, L.
Laser diagnostic development and measurement and modeling of turbulent flowfields of jets and wakes. Part 2: Numerical predictions of isothermal flowfields in a ducted centerbody combustor
[AD-A134692] 08 p1159 N84-17543
KRISHNAMURTHY, R.
Surface fatigue characteristics of transmission gears
15 p2307 N84-24843
KRISHNAN, P. N.
Low-frequency Raman scattering from vitreous and molten B2O3
[AD-A132698] 05 p0649 N84-14269
Raman investigation of the rate of OH uptake in stressed and unstressed optical fibers
[AD-A143142] 21 p3498 N84-32172
KRISHNANKUTTY, V. K.
Separation and staging mechanisms for the Indian SLV-3 launch vehicle 15 p2349 N84-25095
KRISHNAPPRASAD, P. S.
Current algebras and the identification problem
[MC-BW-187/83] 07 p1066 N84-16923
KRISHNASLOAMY, V.
Algebraic and dynamic characterizations of poles and zeroes at infinity
[MATHS-RES-175] 19 p3091 N84-29626
KRISHNASWAMI, P.
Computer-aided optimal design of constrained dynamic systems 17 p2675 N84-27040
KRISHNASWAMY, S.
Formation of dust lanes in spiral galaxies by radiation pressure 08 p1244 N84-18130
KRISTIANSEN, D. M.
Training feedback handbook
[AD-A132565] 05 p0715 N84-14683
KRISTIANSEN, M.
Coordinated research program in pulsed power physics
[AD-A129554] 01 p0138 N84-10905
Pulsed power bibliography. Volume 2: Annotated bibliography
[AD-A131753] 03 p0379 N84-12468
Pulsed power bibliography. Volume 1: Indices
[AD-A131752] 03 p0379 N84-12469
Workshop on Repetitive Spark Gap Operation
[AD-A132688] 05 p0675 N84-14438
Workshop on Solid State Switches for Pulsed Power
[AD-A132687] 05 p0754 N84-14945
Coordinated research program in pulsed power physics
[AD-A139321] 14 p2142 N84-23843
Pulsed power research colloquium
[AD-A141318] 18 p2876 N84-28259
KRISTOFFERSEN, Y.
Geophysical data from drifting ice stations FRAM 4 and TRISTEN
[AD-A133370] 06 p0866 N84-15640
KRIVEC, D. K.
Effects of Nacelle configuration/position on performance of subsonic transport
[NASA-CR-3743] 02 p0174 N84-11144
KRIVODONOVA, L. A.
Manifestation of the Fermi resonance in surface polariton spectra
[NASA-TM-77386] 14 p2222 N84-24330
KRIVOLAPOVA, L. T.
Assessment of trends of input actions of inertial objects
[BLL-M-35689-(5828.4)] 22 p3644 N84-33104

KRIVONOGOV, A. A.
Laser impulse drilling machine discussed
24 p3891 N84-34641
KRIVONOS, G. A.
Production methods and properties of metal powders for high temperature pressing 24 p3877 N84-34567
KRIVOSH, S. M.
Development of an alloy with high damping properties [BLL-M-35211-(5828.4)] 01 p0041 N84-10260
The oxidation of porous metals
[BLL-TRANS-IZ.148-(5828.4)] 01 p0042 N84-10270
KRIVOSHCHEKOV, S. G.
Circulatory dynamics in expeditionary tour of duty
18 p2896 N84-26372
KRIVOSHEYKIN, A. V.
Analysis of operation of frequency synthesizer of television receiver with micro-electronic computer in a control circuit 17 p2632 N84-26840
KRIZ, K.
Influence of temperature on fracture behavior and mechanical properties of hot-pressed silicon nitride with different sintering aids
[BMFT-FB-T-83-166] 07 p0980 N84-16349
KRIZ, S.
On the origin of Be phenomenon
15 p2422 N84-25552
KRIZHANOVSKIY, V. I.
Cold-cathode gas-discharge modulator power tube
21 p3379 N84-31443
KRIZS, V.
EMG 7177 programmable graphic calculator, control system 18 p2827 N84-27948
KROCKOW, W.
Liquid fuel atomization and mixing in a high velocity air stream 15 p2291 N84-24746
KROEGER, A.
Reduced stability in a modern commercial aircraft and center of gravity control
[MBB-UT-22-82-OE] 05 p0632 N84-14156
KROEGER, G. A.
Design and initial operational characteristics of a shock tube-Raman scattering calibration system
[AD-A133251] 06 p0847 N84-15525
KROEGER, J.
Conceptual design of a noncontacting power transfer device for the ASPS Vernier system
[NASA-CR-172236] 22 p3581 N84-32677
KROEHL, H. W.
Numerical modeling of ionospheric parameters from global IMS (International Magnetospheric Study) magnetometer data for the CDAW-6 intervals
[PB84-151307] 14 p2177 N84-24041
KROENER, D.
Asymptotic expansions of the pressure and the free boundary for flows through porous media
[PREPRINT-584] 02 p0221 N84-11448
KROGER, H.
S-I-S mm-wave mixers and detectors
[AD-A134762] 08 p1235 N84-18074
Tunneling through amorphous silicon barriers
[AD-A135666] 09 p1395 N84-19110
KROGH, F. T.
A new algorithm for constrained nonlinear least-squares problems, part 1
[NASA-CR-174480] 02 p0283 N84-11855
KROGMANN, P.
Transonic cryogenic test section for the Goettingen tube facility
[NASA-TM-77050] 07 p0959 N84-16219
KROHN, M. D.
Application of Heat Capacity Mapping Mission data to regional geologic analysis for mineral and energy resource evaluation
[E84-10078] 07 p1021 N84-16625
KROLIK, J. H.
Soft X-ray spectral observations of quasars and high X-ray luminosity Seyfert galaxies
[NASA-TM-85118] 04 p0619 N84-14082
KROLL, N.
The Gain-Spread-Excitation theorem
[AD-A144447] 24 p3951 N84-35020
KROLL, N. M.
Excitation of simple atoms by slow magnetic monopoles
[DE84-006209] 12 p1903 N84-22393
KROMBEL, K. E.
The relative abundances of Sn, Te, Xe, Ba and Ce
[NASA-CR-174599] 03 p0465 N84-13064
KROMPHOLZ, H.
Radiation and particle emission from a 1.6 kJ plasma focus 10 p1581 N84-20362
Observation of nonlinear phenomena
10 p1584 N84-20385
KROMREY, R. V.
Low cost thermal protection system processing
[AD-D011142] 22 p3544 N84-32434
KRONAUER, R.
Quantification of interference and detectability properties of visual stimuli for optimal display design
[AD-A135438] 06 p1232 N84-18049
KRONKE, C. W.
Development of land based radar polarimeter processor system
[NASA-CR-173636] 17 p2652 N84-26960
KROO, I. M.
Aerodynamics, aeroelasticity, and stability of hang gliders 06 p0784 N84-15134
KROOK, M.
Fields and currents and charges on obstacles in a parallel-plate simulator at selected frequencies and with pulse excitation
[AD-A132406] 04 p0520 N84-13418
KROPP, J. L.
Apparatus analysis and preliminary design of low gravity porous solids experiment for STS Orbiter mid-deck
[NASA-CR-168248] 01 p0017 N84-10109
Preliminary design of two Space Shuttle fluid physics experiments
[NASA-CR-174649] 14 p2114 N84-23667
KROSEL, S. M.
Digital computer program for generating dynamic turbofan engine models (DIGTEM)
[NASA-TM-83446] 07 p0954 N84-16185
Development of dynamic simulation of TF34-GE-100 turbofan engine with post-stall capability
[NASA-TM-83660] 16 p2450 N84-25712
KROTOV, V. I.
Investigation of asynchronous detector with self-pumping based on Gunn diode
17 p2633 N84-26847
KROTOVSKAYA, A. R.
Biomedical experiments on Soviet-French flight
09 p1264 N84-18254
KROTSCHECK, E.
The celestial mechanics experiment (E 11) of HELIOS
[BMFT-FB-W-83-016] 08 p1243 N84-18124
KROUPA, E.
CTX: A system for computer-aided indexing
[BMFT-FB-ID-83-006] 02 p0303 N84-11986
KROZDENKO, V. A.
Mechanical properties of components made from powders received by processing low-grade porous titanium 23 p3707 N84-33500
KRPESOVA, N.
Use of radial hemolysis method in gel for detection of antibodies to Bunya virus Lednice (Turlock virus group)
17 p2741 N84-27403
KRUEGER, L. M.
Signal processing in high data rate environments. Design tradeoffs in the exploitation of parallel architectures and fast system clock rates. An overview
09 p1401 N84-19151
KRUEGER, R. J.
Effects of dissipation in one-dimensional inverse problems
[DE83-017692] 03 p0362 N84-12353
KRUEGER, W.
Development of high temperature ceramic parts for vehicular gas turbines
[BMFT-FB-T-84-006] 15 p2301 N84-24812
KRUEHLER, W.
Amorphous silicon solar cells
[BMFT-FB-T-83-112] 02 p0243 N84-11590
KRUELLE, G.
Phenomenology of plasma engine cathodes at high current rates and low pressures
[NASA-TM-77729] 24 p3866 N84-34502
KRUER, W. L.
Thresholds of Raman backscatter: Effects of collisions and Landau damping
[DE84-003736] 08 p1233 N84-18060
NRC survey on plasma physics and fluids fusion plasma confinement and heating. Chapter 8: Inertial confinement fusion
[AD-A142302] 19 p3107 N84-29744
KRUG, A. C.
An experimental investigation of soot behavior in a gas turbine combustor
[AD-A132210] 04 p0487 N84-13202
KRUGEL, A. M.
Diffusion transfer during near-sonic turbulence
21 p3486 N84-32090
KRUGER, C. H.
High magnetic field MHD generator program
[DE84-007690] 15 p2411 N84-25474
Fundamental processes in partially ionized plasmas
[AD-A140549] 16 p2558 N84-26414
KRUGER, J.
Passive films, surface structure and stress corrosion and crevice corrosion susceptibility
[AD-A135549] 08 p1132 N84-17363
KRUGLOV, B. V.
Studies of amplifier module in Delfin Facility for heating thermonuclear plasma 20 p3289 N84-30881
KRULLMANN, E.
Very large scale integration logical and physical structures of VLSI systems
[BMFT-FB-T-83-267] 10 p1488 N84-19730
KRUMACHER, S.
Fragmentation of small molecules following soft X-ray excitation
[DE83-011645] 02 p0289 N84-11896
KRUPKA, M. C.
Alternative gaseous-fuels safety assessment
[DE84-001735] 05 p0662 N84-14350
KRUPKE, W. F.
Insulator materials in high power lasers for inertial fusion: Present and future
[DE84-003738] 08 p1234 N84-18063
KRUPOWICZ, J. J.
Design and construction of deep tubesheet crevice devices for producing intergranular attack of heat transfer tubing
[DE83-902228] 01 p0045 N84-10287
KRUSE, P. J.
Single-mode fiber-optic sensor for high currents
[DE83-014163] 02 p0295 N84-11933
KRUSE, V. J.
Wind turbine generator interaction with conventional diesel generators on Block Island, Rhode Island. Volume 1: Executive summary
[NASA-CR-168318] 19 p3050 N84-29357
Wind turbine generator interaction with conventional diesel generators on Block Island, Rhode Island. Volume 2: Data analysis
[NASA-CR-168319] 21 p3433 N84-31783
KRUSINGER, A. E.
The relation between isolated tree brightness temperature and grass background brightness temperature
[AD-A135843] 09 p1389 N84-19070
KRUTSENKO, I. V.
Amplification of traveling magnetostatic waves by parametric pumping 21 p3479 N84-32050
KRYDER, M. H.
A program of research on microfabrication techniques for VLSI magnetic devices
[AD-A131706] 03 p0452 N84-12978
KRYGIER, B.
The automated information retrieval system in the field of science and science Policy--AWION
[AD-A135565] 09 p1404 N84-19174
KRYLOV, V. A.
Spectral approach to interpretation of electromagnetic anomalies in case of E-polarization
18 p2859 N84-28158
KRYS, V. Y.
Modulation of microwave power with electron transfer diodes 22 p3570 N84-32610
KRYSZTOFIAK, A.
Telecommunications (selected articles)
[AD-A131872] 03 p0361 N84-12346
KRYTER, K. D.
Physiological, Psychological, and Social Effects of Noise
[NASA-RP-1115] 19 p3069 N84-29465
KRYUKOVA, L. M.
Thermodynamic estimation of influence of alloying on sticking fault energy of bcc metals
[BLL-M-30130-(5828.4)] 01 p0151 N84-10995
KRYZHANOVSKIY, V. L.
Autocorrelation receiver for Doppler short-range radar systems 22 p3566 N84-32589
KRZYMIEN, M. E.
Dual adsorber-capillary column system for gas chromatographic analysis of air samples
[AD-A138305] 12 p1792 N84-21689
KSHNYAKIN, V. S.
Elastic properties of textured sheets of two-phase titanium alloys 23 p3708 N84-33505
KSIENSKI, A. A.
Effects of mutual coupling on the performance of adaptive arrays
[AD-A136083] 09 p1309 N84-18560
Adaptive arrays for satellite communications
[NASA-CR-173548] 15 p2320 N84-24924
KTENIDIS, P.
Boundary layer development on rotating bodies of revolution 07 p0957 N84-16204
KU, F. Y.
Nonlinear analysis of rectangular glass plates by Galerkin method
[PB84-159649] 15 p2302 N84-24819
KUAN, D.
Three-dimensional feature extraction
[AD-A131333] 02 p0294 N84-11926

KUBAN, D. P.
Dual arm master controller concept: Consolidated fuel reprocessing program
[NASA-CR-173843] 20 p3196 N84-30296
Advanced remotely maintainable force-reflecting servomanipulator concept
[DE84-011634] 21 p3414 N84-31646
KUBARYCH, K. G.
Erosion mechanisms of metals
[AD-A144194] 24 p3884 N84-34605
KUBENDRAN, L. R.
Study of turbulent flow in a wing-fuselage type juncture 05 p0628 N84-14128
Interference drag in a simulated wing-fuselage juncture
[NASA-CR-3811] 20 p3126 N84-29853
KUBIBNYY, Y. A.
The possibility of amplifying infrared radiation by high-pressure reacting gas
[AD-A131086] 03 p0440 N84-12890
KUBIK, K.
The Danish method: Experience and philosophy 16 p2505 N84-26078
KUBINA, S. J.
Numerical modelling methods for predicting antenna performance on aircraft 03 p0365 N84-12375
Computer graphics techniques for aircraft EMC analysis and design 06 p0771 N84-15055
KUBO, M.
Helium/solid powder o-ring leakage correlation experiments
[DE83-013773] 01 p0090 N84-10588
KUBOTA, S.
Field trial of composite fiber-optic overhead ground wire 11 p1720 N84-21221
KUBOTA, Y.
Magnetic record support
[NASA-TM-77619] 24 p3902 N84-34709
KUBY, W.
Residual shale-oil/diesel-engine operating compatibility program
[DE84-000133] 04 p0545 N84-13587
KUCERA, G. H.
Advanced fuel-cell development
[DE84-002685] 05 p0676 N84-14445
Glass electrolytes for sodium/sulfur cells
[DE84-013428] 21 p3394 N84-31539
Electronically conductive ceramics for high temperature oxidizing environments
[DE84-014506] 22 p3561 N84-32549
KUCHERENKO, S. S.
The effect of the structure of metallo-organic complexes on the electrolytic precipitation of titanium and niobium from nonaqueous electrolytes
[BLL-OA-TRANS-3070-(6196.3)] 04 p0497 N84-13259
KUCHERYAVENKOV, A. I.
Roughness of surface of Venus from bistatic radar data 19 p2975 N84-28857
KUCHINSKIY, A. G.
Control computer and automation subsystem equipment in Delfin Facility 20 p3289 N84-30680
KUCHINSKIY, V. P.
Problems of building turbogenerators with windings made of superconductors and pure metals
[AD-A137198] 10 p1485 N84-19710
KUCIAUSKAS, A. P.
SCPP (Sierra Cooperative Pilot Project) forecasting support, volume 1
[PB84-107911] 08 p1194 N84-17782
KUCINSKI, J.
Preliminary investigations of 360 kJ plasma focus device, part 2 10 p1581 N84-20359
KUCK, A.
A simple mathematical model for heat transfer and its application for continuous type reheating furnaces 01 p0077 N84-10503
KUCKELKORN, K.
On the genesis of hydrocarbons in the German Alpine foreland
[BMFT-FB-T-83-103] 02 p0250 N84-11637
KUCZERA, H.
Chemical and isotopic measurements of micrometeoroids by secondary ion mass spectrometry (A0187-2) 15 p2276 N84-24670
KUDASHOV, A. O.
Optimization of initial microstructures of OT4-1 alloy elements joined by diffusion welding 24 p3875 N84-34558
KUDELA, K.
Cutoff for solar cosmic rays in Earth's magnetosphere in magnetically quiet periods 19 p2973 N84-28849
KUDELKIN, S. A.
Study of spatial asymmetry in human external electrical field 21 p3456 N84-31932
KUDINOV, G. M.
Thermal effect of pulsed laser irradiation on the surface of metallic mirrors 24 p3869 N84-34519
KUDINOV, V. V.
Thermal physics of plasma atomization onto fiber materials 24 p3873 N84-34544
KUDLINSKI, R. A.
Surface grid generation for wing-fuselage bodies 12 p1870 N84-22186
KUDO, K.
A study of air breathing rockets. 3: Supersonic mode combustors
[NAL-TR-756] 04 p0489 N84-13213
KUDREWICZ, H.
Wiener-Hopf technique for the equation U(alpha) = K(alpha) L(alpha) + D(alpha) in the case of function K(alpha) with zeroes
[ISSN-0208-5658] 23 p3729 N84-33632
Analysis of the solution of the problem of diffraction on an asymmetric impedance half-plane
[ISSN-0208-5658] 23 p3729 N84-33633
KUDRIN, K. A.
G suit of bladderless type as a means of improving orthostatic stability after water immersion hypokinesia nd exposure to accelerations 07 p1045 N84-16775
Adaptive effects of repeated immersion on man 15 p2376 N84-25258
KUDRITZKI, R. P.
Spectral analysis of (very) hot stars: Methods and results 24 p3971 N84-35140
IUE-high resolution of ONV-stars 24 p3976 N84-35180
Limb-darkening and metal abundances in the sdOB primary of the eclipsing binary LB 3459 (AA Dor) 24 p3976 N84-35183
Mass loss from the central star of NCG 3242 24 p3977 N84-35194
KUDRNA, K.
A conformal SHF phased array for aircraft satellite communication
[AD-P003509] 21 p3384 N84-31477
KUDRYA, Z.
C.A.T. scanner for detecting flaws in metals 23 p3706 N84-33494
KUDRYAVTSEV, A. M.
Protective plasma envelope
[DE84-013316] 21 p3502 N84-32194
Probing a plasma with high-energy beams of atoms using threshold detectors
[DE84-013360] 21 p3502 N84-32195
KUDZDELA, H.
Segmentation of the speech signal based on changes in energy distribution in the spectrum
[ISSN-0208-5658] 23 p3729 N84-33635
KUEBLER-TESCH, G.
Advantages of using diamond tools brazed under high vacuum
[CSIR-TRANS-1709] 06 p0813 N84-15293
KUECHER, G.
Geology hydrology and mineral resources of crystaline rock areas of Northeastern US
[DE84-013671] 21 p3432 N84-31774
Geology, hydrology, and mineral resources of crystalline rock areas of the northeastern United States
[DE84-013672] 22 p3614 N84-32901
KUEHN, J. T.
A distributed memory management system for PASM
[AD-A141360] 19 p3072 N84-29487
KUEHNAU, R.
Quasicon formal extensions, Fredholm eigenvalues, and Grunsky coefficient conditions 04 p0577 N84-13804
KUEHNE, C.
Development of a 60 cm photographic Zenith telescope, and construction of a prototype
[BMFT-FB-T-84-122] 23 p3826 N84-34263
KUEHNE, F. J.
Effect of space environment on space-based radar phased-array antenna (A0133) 15 p2271 N84-24638
KUEI, J. L.
Separation as asphaltenes using high-resolution supercritical-fluid chromatography 01 p0038 N84-10240
KUENNING, R.
High gain free electron laser at ETA
[DE84-002001] 05 p0686 N84-14512
KUERTEN, H.
Very large scale integration logical and physical structures of VLSI systems
[BMFT-FB-T-83-267] 10 p1488 N84-19730
KUFELD, R. M.
Rotor systems research aircraft: Fixed-wing simulations results
[NASA-TM-85863] 04 p0483 N84-13176
NASA rotor system research aircraft flight-test data report: Helicopter and compound configuration
[NASA-TM-85843] 22 p3535 N84-32381
KUGA, H. K.
Recursive analysis of the geomagnetic vector field
[INPE-2865-PRE/400] 02 p0272 N84-11778
Simplified analysis of the problem of retrieval for a stabilized artificial satellite by a gravity gradient
[INPE-2756-PRE/332] 09 p1270 N84-18295
Attitude determination using strapdown inertial sensors and adaptive estimation
[INPE-3180-PRE/545] 21 p3327 N84-31106
KUGAR, H. K.
Numerical orbit generators of artificial earth satellites
[INPE-3050-RPE/455] 16 p2455 N84-25740
KUHL, W.
Causes and prevention of systematic deviations from true values of absorption coefficients measured in reverberation rooms
[NRC/CNR-TT-2080] 15 p2403 N84-25423
KUHLMAN, B. P.
Airborne lightning characterization
[AD-A130627] 06 p0881 N84-15733
KUHLMAN, J. M.
Computer program documentation for a subcritical wing design code using higher order far-field drag minimization
[NASA-CR-3457] 19 p2957 N84-28740
KUHLMANN-WILSDORF, D.
Design and testing of high performance brushes
[AD-A131348] 02 p0213 N84-11394
KUHLMANN, D. J.
Establishment of a Computer-Aided Design (CAD)/Computer-Aided Manufacturing (CAM) process for the production of cold forged gears
[AD-A141018] 18 p2921 N84-28522
KUHN, A. D.
DTIC 2000: A corporate plan for the future
[AD-A143900] 23 p3835 N84-34327
KUHN, G. D.
Studies and vorticity effects by the Euler equations with emphasis on supersonic flow fields
[AD-A135118] 08 p1157 N84-17535
KUHN, M. L.
Documentation of NCAR (National Center for Atmospheric Research) CCMOB program modules
[PB83-263996] 05 p0710 N84-14651
KUHN, R. H.
Yield enhancement by fault tolerant systolic arrays (summary) 09 p1402 N84-19158
KUHN, S.
General path-integral successive-collision solution of the bounded dynamic multi-swarm problem
[AD-A136961] 10 p1570 N84-20287
Linear longitudinal oscillations in collisionless plasma diodes with thin sheaths. Part 1: Method
[AD-A136962] 10 p1585 N84-20388
Linear longitudinal oscillations in collisionless plasma diodes with thin sheaths. Part 2: Application to an extended pierce-type problem
[AD-A136963] 10 p1585 N84-20389
KUIKEN, G. D. C.
Wave propagation in a thin walled liquid filled initially stressed tube
[MEAH-24] 07 p1005 N84-16519
Approximation dispersion equations for thin walled liquid filled tubes
[MEAH-25] 07 p1005 N84-16520
Wave propagation in fluid lines
[MEAH-26] 07 p1005 N84-16521
KUIMOVA, O. M.
Experimental study of powder production process using centrifugal atomization 12 p1785 N84-21644
KUIPER, E. N. R.
183 GHz water line variation: An energetic outburst in orion KL
[NASA-TM-85956] 16 p2574 N84-26522
A search for 183-GHz emission from water in late-type stars
[NASA-TM-85987] 23 p3838 N84-34348
KUIPER, T. B. H.
183 GHz water line variation: An energetic outburst in orion KL
[NASA-TM-85956] 16 p2574 N84-26522
A search for 183-GHz emission from water in late-type stars
[NASA-TM-85987] 23 p3838 N84-34348
KUISL, M.
Monolithic integrated analog switching arrays
[BMFT-FB-T-83-148] 02 p0216 N84-11418
KUIVINEN, D. E.
Bacterial degradation of polychlorinted biphenyls in sludge from an industrial sewer lagoon
[NASA-TM-83543] 02 p0243 N84-11594
KUKACKA, L. E.
Electropositive bivalent metallic ion unsaturated polyester complexed polymer concrete
[DE84-011080] 20 p3148 N84-29979

KUKEKOV, G. A.
Optimization of the parameters of the arc suppressing system of high-voltage apparatuses with a thyristor attachment
[BLL-OA-TRANS-3139-(6196.3)] 08 p1149 N84-17476

KUKHTAREV, N. V.
Optical hysteresis and bistability in the wave-front conjugation by electrooptic crystals 14 p2234 N84-24406
Optical bistability and hysteresis under phase conjugation in CdS crystal 14 p2240 N84-24450
Multistability due to the helical optical distributed feedback in the cholesteric liquid crystals 14 p2241 N84-24454

KUKHTIN, M. V.
Formation of structure of low-alloy steel inoculated with rare-earth metals and alkaline-earth metals
[BLL-M-35321] 04 p0497 N84-13258

KUKLA, G. J.
Variation of arctic cloud cover in summer: Results through February 1983
[DE84-005098] 11 p1688 N84-21010
Variation of Arctic cloud cover during summer 1979, part 1
[DE84-008996] 19 p3057 N84-29395

KUKSENOVA, L. I.
Dependence of realizability of selective mass transfer during friction of aluminum bronzes against steel on composition of lubricating fluid 17 p2641 N84-26901
Dependence of realizability of selective mass transfer during friction of tin bronzes against steel in hydraulic system mechanisms on concentration of alloying elements 17 p2642 N84-26902

KULADIN, A. A.
Areas of the rational use of different spacecraft power systems
[AD-A129340] 02 p0186 N84-11207

KULAGIN, V. P.
Structural approach to design of multiprocessor database management system 24 p3942 N84-34953

KULAKOV, M. P.
Laser screens of ZnSe produced by bridgeman method 12 p1787 N84-21658

KULAKOVSKIY, V. D.
Influence of exciton movement in magnetic field on luminescence. Indirect forbidden transitions in Ge 21 p3485 N84-32083

KULCHAR, A. G.
Preionization and start-up in the ISX-B Tokamak using electron cyclotron heating at 28 GHz
[DE84-002261] 06 p0920 N84-15984

KULCHITSKIY, V. L.
Calculating electric fields in semiconductor structures when singularities are present 21 p3479 N84-32051

KULCINSKI, G. L.
Inertial confinement fusion reactor studies
[DE84-006675] 18 p2933 N84-28602

KULESA, F.
Reassessment of the OHZ process for the thermochemical decomposition of water
[DE84-007806] 18 p2812 N84-27849

KULESHOV, Y. M.
Multifrequency emission from submillimeter lasers 21 p3487 N84-32096

KULESHOVA, Y. A.
Carbide phases in high-temperature nickel-hafnium alloys 24 p3871 N84-34532

KULICHKOV, S. N.
Comparison of qualitative and quantitative measurements of temperature turbulence with monostatic sodar 18 p2865 N84-28188

KULIK, S. N.
Structure and direction of evolution of European tectonosphere according to geological and geophysical data 17 p2706 N84-27233

KULIKOV, N. I.
Numerical calculations of the function of the static receptivity of electrons in metals
[BLL-M-35640-(5826.4)] 22 p3551 N84-32480

KULIKOV, N. V.
Effect of surface condition and edge preparation on metal fusion during laser welding 23 p3710 N84-33518

KULKARNI, S. B.
Characterization of filament wound Kevlar and glass composites for rocket motor applications 20 p3142 N84-29949

KULL, J.
Linear Fresnel lens photovoltaic concentrator program
[DE84-002971] 06 p1180 N84-17689

KULL, R. C.
USAF aircraft windshield/canopy bird strikes
[AD-P003215] 17 p2594 N84-26628

KULLGREN, T. E.
Proceedings of the United States Air Force and Tri-Service Wind Energy Workshop and Conference
[AD-A130697] 01 p0103 N84-10666

KULOS, M. S.
Design and prototype implementation of SCAN: A programming language for scene analysis 08 p1210 N84-17893

KULSRUD, R. M.
Energetic ion beam-plasma interactions
[AD-A133816] 05 p0749 N84-14918
Energetic ion beam-plasma interactions
[AD-A140173] 16 p2558 N84-26412

KUM, D. W.
Superplastic bonding and ultrahigh carbon steel laminated composites
[AD-A137807] 11 p1627 N84-20651

KUMAGAI, M.
The loudness of complex noise consisted of impact sound and steady noise 23 p3741 N84-33711

KUMAGAI, T.
A transportable cryostat
[NAL-TR-791] 12 p1818 N84-21850

KUMAKAWA, A.
A study of liquid hydrogen cooled LO2/LH2 rocket combustor with channel wall construction
[NAL-TR-767] 16 p2459 N84-25763

KUMANO, Y.
Technique for manufacturing nickel electrodes
[NASA-TM-77239] 11 p1622 N84-20671

KUMAR, A.
Preliminary investigation of ceramic-coated anodes for cathodic protection
[AD-A133440] 06 p0810 N84-15273
Development of concepts for corrosion assessment and evaluation of underground pipelines
[AD-A140633] 17 p2623 N84-26788

KUMAR, D.
Amine terminated bisaspartimides, process for preparation thereof, and polymers thereof
[NASA-CASE-ARC-11421-1] 07 p0978 N84-16340
Fire and heat resistant laminating resins based on maleimido substituted aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-1] 13 p1953 N84-22697

KUMAR, K.
Materials research for advanced inertial instrumentation. Task 2: Gas bearing material development
[AD-A130471] 01 p0007 N84-10044
Materials research for advanced inertial instrumentation. Task 2: Gas bearing material development
[AD-A140435] 16 p2446 N84-25690
Materials research for advanced inertial instrumentation. Task 3: Rare earth magnetic material technology as related to gyro torquers and motors
[AD-A140611] 17 p2762 N84-27542
Chemical vapor deposition and reactive diffusion of boron on beryllium
[AD-D011043] 19 p2995 N84-28976

KUMAR, M.
African Doppler surveys (ADOS)
[AD-A131135] 02 p0240 N84-11574
Error analysis for marine geodetic control using the global positioning system
[AD-A140566] 17 p2605 N84-26687
African Doppler Surveys (ADOS)
[AD-A142738] 21 p3430 N84-31764

KUMAR, P.
Optical propagation and communication 22 p3683 N84-33355

KUMAR, R.
Oxygen-18 measurements in the assessment of natural and anthropogenic sulfur in the environment
[DE84-000566] 04 p0560 N84-13690
Studies in unsteady penetrative thermal convection 06 p0833 N84-15422
Analysis of electrical accident prevention countermeasures
[PB84-102967] 08 p1207 N84-17869

KUMAR, S.
Microstructure and properties of P/M tool steels
[AD-A130980] 02 p0194 N84-11259
Optical spectroscopy of disordered materials and X-ray scattering from surfaces 22 p3682 N84-33345

KUMAR, V. R.
Mechanistic methodology for airport pavement design with engineering fabrics. Volume 1: Theoretical and experimental base
[DOT/FAA/PM-84-9.1] 24 p3857 N84-34450

KUMASHIRO, Y.
The preparation of BP single crystals by high pressure flux method
[NASA-TM-77389] 10 p1587 N84-20403

KUMAZAWA, R.
Conceptual design of the RFC reactor
[IPPJ-659] 11 p1733 N84-21304
Plasma heating, confinement and stabilization experiments in axisymmetric mirror-cusp device
[IPPJ-690] 24 p3965 N84-35105

KUMM, H.
Reports from the German Meteorological Service. Number 163: Comparative measurements with wind shielded and unshielded rain gages
[ISBN-3-88148-203-2] 02 p0253 N84-11654

KUMMER, B.
The so-called Wolff's law and the adaptation of bone to microgravity 23 p3808 N84-34145

KUMMER, F.
New process for recycling of rhodium and iridium from old catalysts
[BMFT-FB-T-83-179] 08 p1126 N84-17321

KUNATH, R. R.
Characteristics and capacities of the NASA Lewis Research Center high precision 6.7- by 6.7-m planar near-field scanner
[NASA-TM-83785] 22 p3598 N84-32789

KUNDT, W.
The celestial mechanics experiment (E 11) of HELIOS
[BMFT-FB-W-83-016] 08 p1243 N84-18124

KUNDU, M. R.
Thermal and nonthermal phenomena in solar flare loops at 20 cm wavelength and in X-rays
[NASA-CR-173429] 14 p2252 N84-24522

KUNERTH, D. C.
Instrumentation for real-time ultrasonic sensing of arc welding characteristics
[DE84-012536] 21 p3414 N84-31649

KUNG, H. H.
Mechanistic studies of catalytic methanol synthesis
[DE84-008380] 21 p3359 N84-31308

KUNG, H. T.
A systolic algorithm for integer GCD computation
[AD-A144409] 24 p3951 N84-35019

KUNG, S. Y.
Proceedings of USC Workshop on VLSI and Modern Signal Processing
[AD-A136855] 09 p1399 N84-19138
Linear or square array for eigenvalue and singular value decompositions? 09 p1401 N84-19150
Impact of VLSI on modern signal processing 09 p1402 N84-19155

KUNIGAHALLI, V.
Characterization of physio-chemical properties of polymeric and electrochemical materials for aerospace flight
[NASA-CR-175406] 10 p1465 N84-19568
Characterization of physiochemical properties of polymeric and electrochemical materials for aerospace flight
[NASA-CR-175258] 22 p3558 N84-32534

KUNII, T. L.
An enhanced Oct-tree data structure and operations for solid modeling 12 p1874 N84-22214

KUNIMATSU, K.
Electrochemically Modulated Infrared Spectroscopy (EMIRS). Experimental details
[AD-A137040] 10 p1455 N84-19503
Raman and infrared spectroscopy of molecules adsorbed on metal electrodes
[AD-A143466] 22 p3547 N84-32454

KUNIN, N. Y.
New data on upper mantle literal inhomogeneities in western Eurasia 17 p2703 N84-27217

KUNISCH, K.
Parameter estimation for the Euler-Bernoulli-beam
[NASA-CR-172417] 22 p3645 N84-33107

KUNKEL, B.
Laser range finding technology for space to space applications. Volume 1: Laser diode range finder functional model
[MBB-UR-608-83-O-VOL-1] 09 p1324 N84-18648
Feasibility study of advanced optical techniques for ocean color measurement
[MBB-R3700/292] 12 p1837 N84-21974
Study on critical assessment of IR CCD arrays for spaceborne reflected and thermal IR imagers
[ESA-CR(P)-1881] 17 p2616 N84-26744

KUNKEL, D. P.
PASCAL statistical procedures package (PSPP)
[AD-A141049] 18 p2921 N84-28524

KUNSCH, P.
Single phase sodium flow in complex and deformed generators 06 p0842 N84-15489

KUNZ, A. B.
Properties of 3-dimensional energetic solids and molecular crystals
[AD-A137927] 11 p1744 N84-21382
Theory of the electronic structure and optical properties of organic solids: Exciton effects
[AD-A142544] 20 p3149 N84-29993

KUNZ, J.
High energy nuclear structures
[DE84-010062] 20 p3299 N84-30947
KUNZ, L. L.
Effects of long-term low-level radiofrequency radiation exposure on rats. Volume 1: Design, facilities, and procedures
[AD-A134079] 06 p0885 N84-15756
Effects of long-term low-level radiofrequency radiation exposure on rats. Volume 5: Evaluation of the immune system's response
[AD-A138535] 14 p2184 N84-24087
Effects of long-term low-level radiofrequency radiation exposure on rats. Volume 6: Hematological, serum chemistry, thyroxine, and protein electrophoresis evaluations
[AD-A141124] 19 p3063 N84-29434
KUNZ, P.
Electroplated metal coatings produced by fused salt electrolysis
[BLL-OA-TRANS-3140-(6196.3)] 09 p1281 N84-18366
KUNZ, S. C.
Particle-tear energy contribution to the toughness of rubber-modified epoxies
[DE83-010396] 02 p0188 N84-11223
KUNZ, W.
Amorphous metals with high magnetic permeability
[BMFT-FB-T-84-056] 19 p2996 N84-28983
KUNZ, W. E.
Multi-isotopic gamma ray assay system for alpha contaminated waste
[DE83-015254] 02 p0292 N84-11917
KUNZE, G.
Investigations of mechanical properties of high strength steels and their suitability for glass lining
[BMFT-FB-T-84-076] 21 p3368 N84-31370
KUO, C. C.
Recursion formulas and limit theorems for the lifetime distribution of a model fibrous composite 11 p1626 N84-20645
KUO, C. P.
Advanced leading edge thermal-structure concept. Direct bond reusable surface insulation to a composite structure
[NASA-TM-85941] 14 p2113 N84-23665
KUO, J. C. W.
Two-stage process for conversion of synthesis gas to high quality transportation fuels
[DE84-009624] 20 p3166 N84-30108
KUO, J. T.
Detection of hidden mineral deposits by airborne spectral analysis of forest canopies
[E84-10110] 12 p1830 N84-21928
KUO, K. K.
Nitramine propellant ignition under rapid gas loading conditions 13 p1950 N84-22677
Nitramine propellant crack tip ignition and crack propagation of a burning sample under rapid pressurization
[AD-A141246] 18 p2811 N84-27848
KUO, R. C.
Load relaxation testing at medium strain rates
[DE84-004877] 10 p1461 N84-19544
Applicability of Hart's state variable model to large strain rate ranges
[DE84-004878] 10 p1462 N84-19549
KUO, S. P.
Ionospheric irregularities and geomagnetic field fluctuations due to ionospheric heating 05 p0636 N84-14184
Interaction of electromagnetic fields with plasma
[AD-A135173] 08 p1232 N84-18054
KUO, V.
The effects of powder metallurgical processing and intermediate thermal mechanical treatment on the fatigue properties of high strength aluminum alloys
[AD-A130790] 01 p0044 N84-10282
KUO, W.
Survey of error propagation in systems
[DE83-009817] 01 p0134 N84-10878
KUO, Y. H.
A diagnostic case study of the effects of deep extratropical convection on the large-scale temperature and moisture structure 06 p0875 N84-15695
KUO, Y. M.
Modified quasilinearization algorithm for optimal control problems with nondifferential constraints and general boundary conditions. Part 1: Theory
[PB83-226944] 01 p0135 N84-10885
Modified quasilinearization algorithm for optimal control problems with nondifferential constraints and general boundary conditions. Part 2: Examples
[PB83-226936] 01 p0135 N84-10886
KUO, Y. S.
Plasma behavior in vacuum coating using hot hollow cathode: A literature survey and proposal for experiment
[DE84-007907] 15 p2411 N84-25471
KUPER, G. M.
On the equivalence of logical databases
[AD-A141541] 19 p3085 N84-29579
A new approach to database logic
[AD-A141130] 19 p3115 N84-29795
KUPERMAN, G. G.
Criteria for selecting subjects for the assessment of advanced crew system concepts
[AD-P003354] 18 p2912 N84-28470
KUPERMAN, W. A.
Wind-generated noise in shallow water
[AD-A141981] 20 p3290 N84-30890
KUPERSHMIDT, B. A.
Relative symmetries of differential equations
[DE83-015231] 03 p0426 N84-12790
Lyapunov stability conditions for a relativistic multifluid plasma
[DE84-010004] 20 p3303 N84-30973
KUPFERMAN, P. N.
Voyager 1 imaging and IRIS observations of Jovian methane absorption and thermal emission: Implications for cloud structure
[NASA-CR-173567] 16 p2579 N84-26544
KUPHAL, E.
Liquid phase epitaxy of InP/In1-xGxAsyP1-y heterostructures. Part 3: Phase diagrams
[FI-65-TBR-20-PT-3] 03 p0456 N84-13000
KUPKA, I.
Annals of the Fourier Institute, volume 34, no. 1
[ISSN-0373-0956] 22 p3633 N84-33025
Annals of the Fourier Institute, volume 34, no. 2
[ISSN-0373-0956] 22 p3635 N84-33038
KUPPERMAN, D. S.
Developmental techniques for ultrasonic flaw detection and characterization in stainless steel
[DE83-014282] 01 p0092 N84-10601
Acoustic leak detection and ultrasonic crack detection
[DE84-004037] 09 p1328 N84-18670
Application of NDE methods to green ceramics: Initial results
[DE84-006411] 14 p2130 N84-23769
In-situ measurements of bronze deterioration
[DE84-007300] 15 p2299 N84-24796
Application of NDE methods to green ceramics: Initial results
[DE84-010571] 18 p2819 N84-27898
KUPPERMANN, A.
The quantum dynamics of chemical reactions
[AD-A130160] 01 p0156 N84-11026
KUPPUSAMY, T.
Three-dimensional analysis of composite plates with material nonlinearity
[AD-A131884] 03 p0347 N84-12258
KURAMOTO, A.
Signal-processing capabilities of a computerized ultrasonic scanning bridge
[DE83-013708] 01 p0085 N84-10553
KURANOV, B. V.
Structure of formal-dynamic properties of human psyche in signal systems interaction 18 p2898 N84-28383
KURATANI, K.
Large scale fire test of cable installed in tunnels 11 p1727 N84-21263
KURATCHENKO, S. B.
Experimental study of powder production process using centrifugal atomization 12 p1785 N84-21644
KURAYEV, A. A.
High-Q open resonator structures with sparse spectrum 20 p3288 N84-30876
KURCHATOV, I. V.
Electromagnetic theory of an antenna for ICR heating of a plasma in Tokamaks
[DE84-012988] 21 p3503 N84-32200
KURGUZOV, S.
Link between characteristics of EEG rhythms in biofeedback control and indexes for operator activity 21 p3455 N84-31927
KURIEN, T.
Optimal maneuver detection and estimation in multiobject tracking
[AD-P002899] 13 p1981 N84-22858
KURIHARA, M.
The heat pipe exchanger with controllable heat exchanging area 20 p3169 N84-30124
KURILOVSKIY, I. D.
Software debugging devices for microprocessors 24 p3941 N84-34952
KURIYAMA, M.
Passive films, surface structure and stress corrosion and crevice corrosion susceptibility
[AD-A135549] 08 p1132 N84-17363
KURKOV, A. P.
Formulation of blade-flutter spectral analyses in stationary reference frame
[NASA-TP-2296] 11 p1614 N84-20562
KURKOWSKI, T.
Whole building performance monitoring: Measurements on baseline buildings 16 p2515 N84-26145
KURNIT, N. A.
High-repetition-rate amplification of 16 (SIGMA) micron radiation
[DE83-012782] 01 p0087 N84-10589
KURNOSOVA, L. V.
Concerning the possibility of employing superconducting systems for analyzing the composition of cosmic rays
[AD-A133792] 05 p0765 N84-15021
KUROCHKIN, V. N.
Turbulent flow of aerosol in rotating channels of turbomachines 17 p2649 N84-26939
KURODA, I.
A study on airborne integrated display system and human information processing
[NASA-TM-77338] 08 p0891 N84-15789
KUROKAWA, E.
Grippers for an unmanned forging cell
[AD-A134237] 07 p1051 N84-16808
Flexible conformable clamps for a machining cell with applications to turbine blade machining
[AD-A134942] 08 p1167 N84-17596
KUROTA, Y.
A transportable cryostat
[NAL-TR-791] 12 p1818 N84-21850
KUROV, I. Y.
Fracture of aluminum in uniaxial and biaxial extension at 473-77 deg K 12 p1783 N84-21635
KUROVA, I. A.
Photoconductivity of alpha-Si-H in infrared range of spectrum 18 p2825 N84-27933
KUROZUMI, K.
The physical and psychological factors governing sound-image quality
[NHK-SERIAL-298] 15 p2403 N84-25424
KURSTEN, G. D.
New lasing ferroelectric material Pb5Ge3O11-Nd-3(+) 20 p3288 N84-30875
KURSUNOGLU, B. N.
Interdisciplinary study on artificial intelligence
[AD-A131359] 02 p0278 N84-11819
KURT, V. G.
Coordinated X-ray and ultraviolet observations of RU Lupi 24 p3978 N84-35199
KURTASOVA, L. A.
Significance of the environment in corrosion cracking of Al-Mg and Al-Li-Mg system alloys 24 p3871 N84-34534
KURTH, W. S.
Jupiter Data Analysis Program: Analysis of Voyager wideband plasma wave observations
[NASA-CR-174575] 03 p0465 N84-13058
Interpretation of STS-3/plasma diagnostics package results in terms of large space structure plasma interactions
[NASA-CR-173266] 07 p1075 N84-16991
A summary of whistlers observed by Voyager 1 at Jupiter
[NASA-CR-173415] 13 p2091 N84-23545
Effects of chemical releases by the STS-3 Orbiter on the ionosphere
[NASA-CR-171032] 15 p2367 N84-25204
KURTZ, G. W.
Two-dimensional scanner apparatus
[NASA-CASE-MFS-25687-1] 13 p1992 N84-22928
KURTZ, M. J.
Classification methods: An introductory survey 09 p1408 N84-19204
KURTZ, S.
Optimization of transparent electrode for solar cell and chemical vapor deposition of amorphous silicon
[DE83-017780] 12 p1843 N84-22014
KURTZ, S. E.
Analysis-plot generation code with significance levels computed using Kolmogorov-Smirnov statistics valid for both large and small samples
[DE84-001581] 04 p0592 N84-13907
Algorithm for computing significance levels using the Kolmogorov-Smirnov statistic and valid for both large and small samples
[DE84-001586] 04 p0592 N84-13909
Methodology for the objective validation of model performance, with an application to atmospheric transport models
[DE83-015693] 06 p0875 N84-15693
KURTZMAN, C. R.
Space applications of Automation, Robotics And Machine Intelligence Systems (ARAMIS). Volume 3, phase 2: Executive summary
[NASA-CR-3736] 01 p0089 N84-10582

Space Applications of Automation, Robotics and Machine Intelligence Systems (ARAMIS), phase 2. Volume 1: Telepresence technology base development
[NASA-CR-3734] 01 p0089 N84-10583
Space Applications of Automation, Robotics and Machine Intelligence Systems (ARAMIS), phase 2. Volume 2: Telepresence project applications
[NASA-CR-3735] 01 p0090 N84-10584

KURWEG, U. H.
Analysis of a 10 megawatt space-based solar-pumped neodymium laser system
[NASA-CR-3774] 07 p1009 N84-16544

KURZIUS, S. C.
Preliminary engineering report for design of a subscale ejector/diffuser system for high expansion ratio space engine testing
[NASA-CR-171137] 21 p3354 N84-31273

KURZKE, H.
Elementary reactions of NH2 radicals in the gas, phase 3
[MPIS-2/1983] 05 p0652 N84-14285
Primary patterns of electronically excited molecules in the gas phase 2
[MPIS-9/1983] 13 p2041 N84-23245
Primary processes of electronically excited molecules in vapor phase, part 3
[MPIS-12/1983] 18 p2930 N84-28582

KURZWEIL, L. G.
Preliminary evaluation of waveguide vibration absorbers
[AD-A140743] 17 p2680 N84-27070

KUS, M.
Absorptive optical bistability with laser amplitude fluctuations 14 p2236 N84-24430

KUSAKA, K.
A transportable cryostat
[NAL-TR-791] 12 p1818 N84-21850

KUSCHEL, H.
Transmission loss calculations for systems with antennas close to the ground using a digital data base
[LFD-218] 15 p2318 N84-24914

KUSHNER, B. G.
Strategic computing and survivability research
[AD-A141717] 19 p3081 N84-29548

KUSHNER, H. J.
Approximating multiple ITO integrals with Band limited processes
[AD-A140417] 16 p2550 N84-26364
Research in the areas of stochastic control under partial observations, nonlinear filtering, large deviations for nearly deterministic processes, and transition and invariant densities for nearly deterministic diffusions
[AD-A142191] 19 p3115 N84-29791

KUSKOV, O. L.
Adiabatic structure in mantle transition zone 18 p2863 N84-28177

KUSMARWANTO, L.
Ground effect on a rotor wake
[ISBN-0-902937-93-6] 11 p1601 N84-20484

KUSSOY, M. I.
An experimental investigation of the impingement of a planar shock wave on an axisymmetric body at Mach 3
[NASA-TM-84410] 09 p1312 N84-18573

KUSTERS, J. F.
The use of TEA and multiatmosphere CO2 lasers in active remote sensing 24 p3907 N84-34749

KUSTOM, B.
A laboratory investigation of the high-frequency Farley-Buneman instability
[NASA-CR-173435] 16 p2525 N84-26215
Production of plasma with variable, radial electric fields
[NASA-CR-173434] 16 p2558 N84-26413

KUSTOM, R. L.
ASPUN, Argonne super intense pulsed pallation neutron source
[DE84-000311] 04 p0597 N84-13941
New 1-phase dual converter for superconducting inductive energy storage and transfer applications: The 1-phase inductor-converter bridge
[DE84-012118] 20 p3179 N84-30193
High-current, low-energy synchrotrons and compressor rings
[DE84-012104] 20 p3293 N84-30906

KUSUOKA, S.
Applications of the Malliavin calculus, part 2
[REPT-83-PT-2] 21 p3476 N84-32032

KUTIEV, I.
Effects of small-scale plasma disturbance on the IKB-1300 spacecraft potential
[PR-839] 08 p1109 N84-17206

KUTLER, P.
Computational aerodynamics and artificial intelligence
[NASA-TM-85994] 21 p3324 N84-31089
Potential application of artificial concepts to aerodynamic simulation
[NASA-TM-85976] 21 p3324 N84-31093

KUTSCHER, C.
Techniques for integrated text and image processing and communication
[BMFT-FB-T-83-104] 02 p0302 N84-11985

KUTSCHERA, W.
Search for doubly-charged negative ions via accelerator mass spectrometry
[DE83-014321] 01 p0038 N84-10243

KUTTEL, B. W.
Computer control of refrigerating plants 11 p1640 N84-20724

KUTZ, R.
Development of temperature-, velocity- and concentration-profiles in a curved combustor 15 p2292 N84-24757

KUTZBACH, J. E.
Cloud and ice in the planetary scale circulation and in climate
[NASA-CR-173992] 24 p3990 N84-35244

KUWABARA, S.
Numerical analysis of the burst in the turbulent boundary layer, based on the three-dimensional ortex model 20 p3168 N84-30116

KUWAHARA, T.
Performance characteristics of VAD single mode fibers in mass production basis 11 p1725 N84-21254

KUWANA, T.
Electrocatalysis of oxygen using water soluble metal porphyrins and chemically modified porphyrin electrodes
[AD-A136062] 09 p1280 N84-18358

KUWANO, N.
Aerodynamic characteristics of fan-jet STOL aircraft
[NAL-TR-790] 16 p2440 N84-25651

KUWANO, R.
Crystal growth of artificial snow 18 p2799 N84-27763

KUX, H. J. H.
Evaluation of SIR-A (Shuttle Imaging Radar) images from the Tres Marias region (Minas Gerais State, Brazil) using derived spatial features and registration with MSS-LANDSAT images
[E84-10148] 16 p2508 N84-26096

KUYEVA, V. P.
Problems of building turbogenerators with windings made of superconductors and pure metals
[AD-A137198] 10 p1485 N84-19710
Problems of technical electrodynamics (selected articles)
[AD-A140972] 18 p2633 N84-27985

KUZAY, T. M.
Thermal oscillations downstream of an elbow in stratified pipe flow
[DE84-006550] 21 p3401 N84-31579

KUZELEV, M. V.
Nonlinear dynamics of resonance-type instability in high-density electron beam: Analytical solution 21 p3483 N84-32074

KUZENKOVA, M. A.
Nitration of intermetallide TiAl3 12 p1785 N84-21646

KUZICHEVA, Y. A.
Uracil and uridine photolysis on lunar soil 14 p2250 N84-24516

KUZIN, N. N.
A diffusion mechanism in the catalytic conversion of carbonaceous materials into diamonds at high pressures
[CSIR-TRANS-1743] 22 p3557 N84-32526

KUZMANOFF, K. M.
Isolation and characterization of beta-glucan synthase: A potential biochemical regulator of gravistimulated differential cell wall loosening 09 p1359 N84-18882

KUZMENKO, V. A.
Changes in arterial pressure in static work as function of time of day and degree of disturbance in Earth's magnetic field 21 p3456 N84-31930

KUZMENKO, V. I.
Aerodynamic and thermal characteristics of 3-dimensional stellate bodies in rarefied gas 17 p2644 N84-26915

KUZMICHEV, A. I.
Cold-cathode gas-discharge modulator power tube 21 p3379 N84-31443

KUZMICHEVA, A. E.
About the profile of cosmic ray intensity increase prior to Forbush-decrease 24 p3994 N84-35279

KUZMIN, G. A.
The measurement of acoustic emission parameters during hydraulic loading of the Novovorenezh AES reactor vessel VVER-1000
[DRIC-T-6998] 15 p2403 N84-25421
Flow structures and their evolution in turbulent shear layer 21 p3486 N84-32091

KUZMIN, P. N.
Dependence of crustal structure of eastern Pacific Ocean on its age 20 p3223 N84-30483

KUZMIN, P. P.
Image identification by method of integral fluctuations 22 p3568 N84-32601

KUZMINA, Z. F.
Mouse adrenal corticosterone content during prolonged exposure to high-intensity stationary magnetic field 15 p2378 N84-25269

KUZNETSOV, A. N.
Effect of constant and low-frequency magnetic fields on biological systems 20 p3258 N84-30679

KUZNETSOV, A. T.
Investigation of the state of materials in plasma deposition of refractory coatings
[BLL-M-35686-(5828.4)] 22 p3551 N84-32485

KUZNETSOV, M. A.
Modeling kinetics of aerodisperse phase in ocean surface layer 18 p2859 N84-28153

KUZNETSOV, M. M.
Theory of hypersonic three-dimensional flow of nonsteady gas stream with relaxation past thin wing with arbitrary aspect ratio 13 p1971 N84-22791

KUZNETSOV, S. F.
Stressed-strained state of flanged shells under heavy thermal load beyond elastic limit 13 p1972 N84-22800

KUZNETSOV, S. N.
Cutoff for solar cosmic rays in Earth's magnetosphere in magnetically quiet periods 19 p2973 N84-28849

KUZNETSOV, T.
Innovations for improving performance, aerodynamic properties of aircraft 02 p0167 N84-11097

KUZNETSOV, V. A.
Spectral dependence of magnetoresistivity in heterophase photoconductors based on CdSe 18 p2825 N84-27935

KUZNETSOV, V. M.
Size distribution of fragments forming during solid body destruction 18 p2863 N84-28175

KUZNETSOV, V. V.
The effect of the structure of metallo-organic complexes on the electrolytic precipitation of titanium and niobium from nonaqueous electrolytes
[BLL-OA-TRANS-3070-(6196.3)] 04 p0497 N84-13259

KUZNETSOVA, E. G.
The electrochemical behaviour of titanium platinum alloys in anodic oxidation processes. 1: Kinetics and selectivity of the process of the combined formation of O2, H2S2O8 and O3 on the titanium-platinum alloy
[BLL-OA-TRANS-3093-(6196.3)] 08 p1128 N84-17336

KUZNETSOVA, K. I.
Seismicity as stochastic process with physical parameters 17 p2700 N84-27203

KUZNETSOVA, T. I.
Effect of high ammonia content in pressure chamber atmosphere on human adrenocortical system function 20 p3255 N84-30658

KUZNETSOVA, Z. M.
Functional status in relation to work, performance and health 18 p2895 N84-28366

KVACHEVA, L. A.
Influence of natural exposure in space on physical-mechanical properties of carbon reinforced plastic 24 p3872 N84-34536

KVACHEVA, T. D.
Use of refractory coatings to protect metal gainst high-temperature corrosion
[BLL-M-35543-(5828.4)] 17 p2621 N84-26772

KVAREN, R.
Control unit for frequency shift for short wave radio transmission
[FOA-C-30269-E2] 07 p0994 N84-16447

KVARNSTROEM, B.
Image processing for low resolution target finders
[FOA-C-30297-E1,E3] 07 p0962 N84-16238

KVASHA, Y. N.
Comparative estimate of cyclic strength of welded joints in titanium alloys 24 p3876 N84-34561

KVATERNIK, R. G.
A formulation of rotor-airframe coupling for design analysis of vibrations of helicopter airframes
[NASA-RP-1089] 23 p3760 N84-33832

KWACK, E. Y.
Effect of Weissenberg number on turbulent heat transfer and friction factor of viscoelastic fluids 23 p3745 N84-33743

KWAK, D.
A computational method for viscous incompressible flows
[NASA-TM-85958] 17 p2600 N84-26664

A solution procedure for three-dimensional incompressible Navier-Stokes equation and its application
[NASA-TM-85978] 17 p2600 N84-26666

KWAK, J. E.
Pressure studies of organic superconductors
[DE83-015344] 01 p0155 N84-11021

KWAN, J.
Design and fabrication of a surface conversion negative ion source and an 80 keV pre-accelerator
[DE84-006753] 13 p2045 N84-23269

KWAN, Q.
Electrochemical-Storage-Systems Program summary
[DE83-011254] 01 p0075 N84-10493

KWAN, T. J. T.
Microwave generators: Oscillating virtual cathodes and reflexing electrons
[DE84-001346] 04 p0522 N84-13433
Pulsed-power diode generation of high-power microwaves
[DE84-001344] 04 p0523 N84-13440

KWASNIEWSKA-JANKOWICZ, L.
Utilization of low temperatures in electrical machines
[AD-A133325] 06 p0830 N84-15399

KWATNY, H. G.
Conservation laws for some separable gyroscopic dynamical systems 15 p2313 N84-24876

KWOH, D. S. W.
Microwave buckscattering from short gravity waves. A deterministic, coherent and dual-polarized laboratory study
[AD-A131217] 01 p0111 N84-10719
The nature of microwave backscattering from water waves
[AD-A141877] 19 p3006 N84-29056

KWOH, S. W.
The nature of microwave backscattering from water waves 06 p0870 N84-15665

KWOK, H. S.
CO-2 laser heating of silicon and applications
[DE84-008273] 15 p2339 N84-25042

KWOK, J. H.
Mission and trajectory design for the Venus orbiting imaging radar 19 p3120 N84-29831

KWOK, M. A.
Modeling study of a CW HF resonance transfer laser medium
[AD-A134866] 08 p1164 N84-17580

KWON, T. M.
Rubidium frequency standard study
[AD-A134713] 08 p1151 N84-17492

KWON, Y. S.
Periodic window, period doubling, and chaos in a liquid crystal bistable optical device 14 p2238 N84-24432

KWON, Y. W.
Simplified thermal transient test for electro explosive devices
[AD-A132970] 18 p2844 N84-28060

KWONG, M. K.
Full- and half-range theory of indefinite Sturm-Liouville problems
[DE84-001672] 05 p0741 N84-14869

KYBA, E. P.
Development of catalysts for the utilization of carbon monoxide
[DE84-005475] 11 p1629 N84-20659

KYCHAKOFF, G.
Advanced diagnostics for reacting flows 13 p1943 N84-22637

KYDD, G. H.
Fuel fire tests of the helicopter crewman jacket
[AD-A140037] 15 p2385 N84-25302
Fuel fire tests of polytetra-fluoroethylene anti-exposure suits
[AD-A140038] 15 p2385 N84-25303

KYHL, R. L.
Microwave and quantum magnetics 22 p3683 N84-33348
Radio astronomy 22 p3683 N84-33349

KYLE, N. R.
Development of new electro-optic and acousto-optic materials
[AD-A139946] 15 p2408 N84-25453

KYOTO, M.
Performance characteristics of VAD single mode fibers in mass production basis 11 p1725 N84-21254

KYPARISIS, J.
Convexity and concavity properties of the optimal value function in parametric nonlinear programming
[AD-A138202] 12 p1881 N84-22264
Generalized convexity and concavity properties of the optimal value function in parametric nonlinear programming
[AD-A138220] 12 p1882 N84-22265

KYTE, F. T.
Quenched magnetite in cretaceous-tertiary boundary microtekite-like spheroid 11 p1755 N84-21459

KYZYUROV, Y. V.
Influence of electric fields on potential waves in Earth's magnetosphere 17 p2705 N84-27225

L

LA VIOLETTE, P. E.
An analysis of aircraft data collected in the Alboran Sea during Donde Va?, 6 - 18 October 1982
[AD-A133995] 06 p0883 N84-15746

LAASCH, I.
All solid state CCD image sensor
[BMFT-FB-T-84-048] 19 p3113 N84-29778

LABBE, F.
Flow between rotating disks. Part 1: Basic flow 15 p2315 N84-24880

LABBE, O.
The computation of inviscid-viscous coupled equations by a finite element method
[ONERA-NT-1983-1] 16 p2488 N84-25957

LABELLE, S. J.
Technology assessment of productive conservation in urban transportation
[DE83-012179] 01 p0163 N84-11070
Energy use and range of electric vehicles in selected US Department of Energy sites
[DE83-015719] 03 p0461 N84-13034
The effects of relaxing automobile emission standards: A generic analysis and an urban case study
[DE84-000193] 04 p0560 N84-13693
Energy-efficient automobiles for the future
[DE84-000600] 04 p0617 N84-14073
Measuring energy use in urban travel using a sketch planning model
[DE83-015375] 05 p0761 N84-14992
Operation of electric vehicles in the US Department of Energy test program
[DE84-011703] 21 p3521 N84-32308

LABES, M. M.
Fluorescent guests in thermotropic and chirality in lyotropic liquid crystals
[AD-A139985] 15 p2413 N84-25487

LABITZKE, K.
Quantities of interest to climatology and atmospheric physics, volume 2 16 p2529 N84-26239

LABONTE, B. J.
Solar Irradiance Variations on Active Region Time Scales
[NASA-CP-2310] 17 p2778 N84-27635
Recent ground-based observations of the global properties of the Sun 17 p2779 N84-27644

LAC, Q. T.
Mathematical analysis of digital phase locked loops over fading communication channels 05 p0664 N84-14364

LACAMERA, R. J.
Water resources data for Nevada, water year 1982
[PB84-120385] 09 p1340 N84-18755

LACASSE, M.
CLARIFY: An on-line guide for revising technical prose
[N-2037-RC] 15 p2417 N84-25509

LACASSE, M. G.
Optical and infrared polarization as a probe of matter near stars 21 p3524 N84-32324

LACAZ, M. H. C. D. F.
Stability of equilibrium in problems with double resonance 19 p3117 N84-29809

LACEY, D. W.
Aerodynamic feasibility for airborne retrieval of a remotely piloted vehicle
[AD-A143695] 23 p3693 N84-33404

LACEY, R. A.
Automatic combustor controller development and liquid-fuel combustor design program
[AD-A130368] 01 p0052 N84-10335

LACHAPELLE, E. D.
Coupled-transport membranes for metal separations, phase 5
[PB84-127034] 09 p1286 N84-18396

LACHAUD, B.
Statistical approach to damage tolerance assessment
[SNIAS-832-111-112] 15 p2260 N84-24575

LACHENBRUCH, A. H.
Permafrost and the geothermal regime 14 p2165 N84-23964
Temperature profiles from Salt Valley, Utah
[DE84-900996] 21 p3444 N84-31854

LACKEY, W. J.
Ceramic coatings for heat engine materials: Status and future needs
[DE84-003401] 10 p1468 N84-19590
Chemical vapor deposition of erosion resistant TiB-2 coatings
[DE84-012351] 22 p3556 N84-32518

LACKNER, A. M.
Effects of cyclohexyl groups and ortho-substituents on the viscosity of ester liquid crystal components
[AD-A143028] 21 p3504 N84-32205
Liquid crystal materials for matrix displays
[AD-A143039] 21 p3504 N84-32206
Improved materials for DC dynamic scattering at elevated temperatures
[AD-A143076] 21 p3504 N84-32207

LACOE, R. C.
Structural studies at elevated pressure and reduced temperatures using synchrotron radiation: Application to Ce.8La.1Th.1
[DE84-001793] 06 p0924 N84-16007
Role of pressure in understanding the anomalous superconductivity in europium (molybdenum)6(sulfur)8 and (TMTSF)2FSO3
[DE83-017292] 06 p0925 N84-16012

LACOMBE, J. L.
Detailed system studies on rendezvous and docking. Part 1: Executive summary
[ESA-CR(P)-1894-PT-1] 23 p3697 N84-33428

LACOSS, R. T.
Distributed sensor network
[AD-A131245] 01 p0140 N84-10919
Distributed sensor network
[AD-A133250] 06 p0909 N84-15903
Distributed estimation in the MIT/LL (Massachusetts Institute of Technology/Lincoln Laboratory) DSN (Distributed Sensor Networks) test-bed
[AD-P002897] 13 p1980 N84-22856

LACOSTE, P.
Modal deformations and stresses
[ED-81-343/RD] 09 p1334 N84-18712

LACOVARA, P.
Design of a high-brightness, low-jitter, short-pulse laser for plasma diagnostics
[DE84-000129] 04 p0541 N84-13564

LACROIX, B. V.
Fluoroalkyl siloxanes as liquid-repellent fabric finishes. Part 3: The durability of the copolymers and comparisons with commercially available finishes
[AD-A136662] 10 p1467 N84-19579

LADA, C. J.
NGC 2024: Far-infrared and radio molecular observations
[NASA-TM-85954] 16 p2575 N84-26524
The energetics and mass structure of regions of star formation
[NASA-TM-85953] 16 p2575 N84-26525
The nature of AFGL 2591 and its associated molecular outflow: Infrared and millimeter-wave observations
[NASA-TM-85963] 16 p2575 N84-26526
W3 North: Far-infrared and radio molecular observations
[NASA-TM-85961] 17 p2774 N84-27615

LADEL, J.
The MIRAGE 2000: Fly by wire control and safety 06 p0777 N84-15093

LADELL, L.
Comparative antenna measurements in real environment: Steerable null antenna at 30 - 76 MHz
[FOA-C-30303-E2] 08 p1146 N84-17459

LADERMAN, A. J.
Laser beam duct pressure controller system
[AD-D011102] 22 p3601 N84-32811

LADSON, C. L.
Tests of a NACA 65(sub 1)-213 airfoil in the NASA Langley 0.3-meter transonic cryogenic tunnel
[NASA-TM-85732] 10 p1420 N84-19287
Status of advanced airfoil tests in the Langley 0.3-meter transonic cryogenic tunnel 18 p2783 N84-27664

LADWIG, P.
First experience with ARINC 717 Aircraft Integrated Data Systems (AIDS) on Airbus 310 for maintenance support 17 p2586 N84-26572

LAFAW, D. A.
Timing performance of phased-locked loops in optical pulse position modulation communication systems
[NASA-CR-173970] 23 p3824 N84-34253

LAFEVER, A. E.
Directional gear ratio transmissions
[NASA-CASE-LAR-12644-1] 18 p2848 N84-28064

LAFFY, S.
Optimizing the maneuvers of an observation satellite for rapid overflight of a precise point on Earth 15 p2268 N84-24617

LAFORAGARCIA, F.
The design and implementation of debugging systems for languages with advanced control structures 04 p0578 N84-13811

LAFRAMBOISE, J. G.
Numerical simulation of spacecraft charging phenomena at high altitude
[AD-A130043] 01 p0028 N84-10178
Incident velocity distributions on sampling electrodes of spacecraft plasma instruments 08 p1117 N84-17267
Is there a good way to model spacecraft charging in the presence of space-charge coupling, flow and magnetic fields?
[AD-P002102] 16 p2521 N84-26188
The threshold temperature effect in high-voltage spacecraft charging
[AD-P002120] 16 p2524 N84-26206

LAFRANCHI, E. A.
Progress in research in electronics engineering: Technical review
[DE84-006389] 11 p1647 N84-20772

LAGACE, P. A.
Fracture, longevity (fatigue), dynamics, and aeroelasticity of composite structures
[AD-A137047] 10 p1452 N84-19486

LAGAIN, G.
Design of a combustion chambers with reverse flow for small gas turbines 15 p2290 N84-24742

LAGALLY, M. G.
Diffraction techniques
[AD-A133254] 06 p0914 N84-15944
Species-specific densities of states of ga and as in the chemisorption of H2O on GaAs(110)
[AD-A134344] 07 p1080 N84-17022
Species-specific densities of states of ga and as in the chemisorption of oxygen on GaAs(110)
[AD-A134416] 07 p1080 N84-17024
Local electronic properties of semiconductor surfaces and interfaces
[DE84-013608] 22 p3666 N84-33239

LAGASSE, R. R.
Origin of pyroelectricity in polyvinilydene fluoride
[DE83-015227] 02 p0201 N84-11311

LAGERLOEF, G. S. E.
Topographic effects of the Alaskan stream on shelf currents
[PB84-205137] 22 p3628 N84-32988

LAGIER, P.
A Specification Assistance System (SAS) 05 p0721 N84-14731

LAGNESE, T. J.
Measurement and analysis of platform damping in advanced turbine blade response 10 p1514 N84-19911

LAGO, M. T. V. T.
A UV glimpse of T Tauri stars 24 p3975 N84-35174

LAGOS, P.
Equatorial MST radars: Further consideration 17 p2683 N84-27083

LAGOW, R. J.
New fluorocarbon elastomers for seals for geothermal and other aggressive environments
[DE83-014424] 01 p0090 N84-10590

LAGOWSKI, J.
Crystal growth of device quality GaAs in space
[NASA-CR-173148] 07 p1079 N84-17013
Crystal growth of device quality GaAs in space
[NASA-CR-173749] 18 p2935 N84-28613
Defect interactions in GaAs single crystals 19 p3046 N84-29323

LAGRANGE, M. J. B.
Aerodynamic forces on an airship hull in atmospheric turbulence
[UTIAS-277] 14 p2100 N84-23604

LAGUARDIA, A.
Demonstration of boundary layer characteristics
[BU-299] 15 p2256 N84-24550

LAGUNA, G. R.
Switching-speed improvements in PLZT shutters
[DE83-013096] 02 p0214 N84-11403

LAHAYE, J.
Formation and destruction of organic pollutants in thermal systems and flames 15 p2291 N84-24752

LAHMANN, W.
State-of-the art Differential Absorption and Scattering (DAS) lidar for SO2 and NO2 23 p3780 N84-33966

LAHMEYER, C. R.
Nanosequencer digital logic controller
[NASA-CASE-NPO-16116-1] 15 p2385 N84-25306

LAHOUD, M. A.
Laboratory measurements of subsynchronous resonance
[RL-6845] 11 p1667 N84-20877

LAHOZ, C.
The electron and ion spectra of radar returns from the critical height during ionospheric heating experiments 05 p0636 N84-14185

LAI, C. Y.
Analysis of electromagnetic backscatter from an inlet cavity configuration
[AD-A133626] 05 p0669 N84-14400

LAI, S.
Development of space shuttle ignition overpressure environment and correlation with flight data 01 p0020 N84-10127

LAI, S. T.
Electron beam trajectory in a photometer field of view
[AD-A131949] 03 p0432 N84-12831
The concepts of critical temperature and energy cutoff of ambient electrons in high voltage charging of spacecraft 08 p1119 N84-17275
Sheath ionization model of beam emissions from large spacecrafts
[AD-A137181] 10 p1448 N84-19463

LAI, W. T.
Temperature analysis in lubricated simple sliding rough contacts 01 p0089 N84-10579

LAIKIN, E.
REB (Relativistic Electron Beam)/channel tracking experiments in low pressure ammonia
[AD-A140209] 16 p2555 N84-26394

LAINE, R. M.
Organometallics in high energy chemistry
[AD-A135715] 09 p1275 N84-18323

LAINE, S.
Range and endurance of jet-engined airplanes at constant altitude
[REPT-83-A1-SER-A] 04 p0483 N84-13175

LAING, E. D.
Design/Process optimization of paired computer interconnecting cable for local area networks 11 p1725 N84-21251

LAIR, D. L.
Modeling and testing for second breakdown phenomena
[DE84-002470] 07 p0994 N84-16444

LAIRD, A. R.
Total aerosol volume computed from laser spectrometer particle-size data for comparison with flame photometer total-mass data
[AD-A143171] 21 p3359 N84-31306

LAIRD, C.
Cyclic deformation and fatigue of monocrystalline Ni-base superalloys
[AD-A138052] 12 p1797 N84-21724

LAIRD, C. E.
Studies of neutron and proton nuclear activation in low-Earth orbit 2 06 p0930 N84-16041
Trapped-proton energy spectrum determination (M0002-1) 15 p2276 N84-24663
Study of proton and neutron activation of metal samples in low Earth orbit
[NASA-CR-171113] 21 p3430 N84-31763

LAIRD, J. B.
Carbon and nitrogen abundances in field dwarf stars 24 p3986 N84-35236

LAIRSON, B. M.
Design of doubly focusing, tunable (5 - 30 keV), wide-bandpass optics made from layered synthetic microstructures
[DE83-015492] 03 p0441 N84-12897

LAKDAWALA, V. K.
Electron-drift velocity and ionization and attachment coefficients in gases/mixtures for diffuse-discharge opening switches
[DE83-017206] 04 p0609 N84-14017
Transport properties and dielectric strengths of gas mixtures for use in diffuse discharge opening switches
[DE84-011444] 21 p3394 N84-31536

LAKE, A.
Cronus: A distributed operating system
[AD-A139588] 14 p2209 N84-24260

LAKE, B. M.
Microwave backscattering from short gravity waves. A deterministic, coherent and dual-polarized laboratory study
[AD-A131217] 01 p0111 N84-10719
The nature of microwave backscattering from water waves 06 p0870 N84-15665
The nature of microwave backscattering from water waves
[AD-A141877] 19 p3006 N84-29056

LAKHANPAL, S. E.
An expression of strain energy involving couple stresses in solids 15 p2313 N84-24880

LAKHTIN, G.
Soviet economist discusses efficient use of scientific potential 01 p0055 N84-10355

LAKIN, C. T.
Target for optically activated seekers and trackers
[AD-D011059] 22 p3655 N84-33171

LAKIN, K. M.
Computational tool for the design of ultrasonic systems
[DE83-018092] 03 p0431 N84-12824
Sputtered C-axis inclined piezoelectric films and shear-wave resonators
[DE83-017253] 03 p0455 N84-12997
Piezoelectric shear wave resonator and method of making same
[DE84-014528] 23 p3751 N84-33780

LAKIN, W. D.
Stability of the laminar boundary layer in a streamwise corner
[NASA-CR-173282] 08 p1157 N84-17532

LAKSHMINARAYANA, B.
Three-dimensional turbulent boundary layers 06 p0838 N84-15459
Three-dimensional turbulent boundary layers in turbomachines 06 p0838 N84-15460
Annulus wall boundary layer development in a compressor stage, including the effects of tip clearance 07 p0957 N84-16207

LAKSHMINARAYANAN, M. Y.
Estimation of parameters in linear structural relationships: Sensitivity to the choice of the ratio of error variances
[NASA-CR-171756] 09 p1372 N84-18958

LAL, M.
An epicycloidal hole under uniform tangential force in an infinite, isotropic, compressible medium in second order elasticity 15 p2401 N84-25407

LAL, S.
Measurement of nitric oxide in the equatorial D-region and other relevant parameters
[IWF-8304] 17 p2728 N84-27365

LALA, J. H.
Development and evaluation of a fault-tolerant multiprocessor (FTMP) computer. Volume 4: FTMP executive summary
[NASA-CR-172286] 15 p2395 N84-25366

LALANNE, M.
Prediction of critical speeds, unbalance and nonsynchronous forced response of rotors 10 p1515 N84-19918

LALIASHVILI, A. N.
Plasma processes caused by an electron beam injected from a high altitude rocket probe. Part 1: Neutralization processes
[IWF-8302] 17 p2728 N84-27363
Plasma processes caused by an electron beam injected from a high altitude rocket probe. Part 2: Studies of beam-plasma discharge
[IWF-8303] 17 p2728 N84-27364
Plasma processes caused by an electron beam injected from a high altitude rocket probe. Part 2: Studies of beam-plasma discharge
[IWF-8303] 17 p2728 N84-27364

LALIASHVILI, N. A.
Plasma processes in the region of electron beam injection from a high altitude payload 05 p0637 N84-14194

LALIBERTE, B. R.
The dicyandiamide cure of SP-250 epoxy resin accelerated by monuron
[AD-A129667] 01 p0050 N84-10320

LALK, T. R.
Evaluation of dissociated and steam-reformed methanol as automotive engine fuels
[NASA-CR-168242] 18 p2821 N84-27909

LALLMAN, F. J.
Tension waves in tethered satellite cables
[NASA-TM-85799] 18 p2807 N84-27820

LALLY, J.
Properties of material in the submillimeter wave region (instrumentation and measurement of index of refraction)
[NASA-CR-175156] 07 p1006 N84-16524

LALLY, J. P.
Development of theoretical models and analyses of the micro-physics of cloud and precipitation systems
[AD-A133557] 06 p0882 N84-15735

LAM, C. S.
Effects of transverse loading on the thickness shear resonance frequencies in crystal plates 13 p2003 N84-22994

LAM, J. F.
Phase conjugate optical resonator
[AD-A136071] 09 p1390 N84-19077
Locking of diode gain modules using optical conjugation techniques
[AD-A141234] 18 p2846 N84-28075

LAM, K. S.
Laser-induced bound states at surfaces: Ion neutralization and adsorption
[AD-A130278] 01 p0086 N84-10562

Localized magnetization arising from spin-dependent impurity potentials in the Wolff model
[AD-A133652] 05 p0742 N84-14871
Laser-induced neutralization and negative-ion formation in surface scattering
[AD-A135907] 09 p1322 N84-18641
Negative-ion formation from surface scattering and the Anderson correlation energy U
[AD-A138390] 12 p1914 N84-22473

LAM, L.
Nuclear moment alignment, relaxation and detection mechanisms
[AD-A131546] 02 p0223 N84-11464

LAM, N. Q.
Segregation of Zn solutes to high-angles (001) twist grain boundaries in Al
[DE84-003455] 08 p1134 N84-17375
Study of ion bombardment-induced subsurface compositional modifications in Ni-Cu alloys at elevated temperatures by ion scattering spectroscopy
[DE84-003632] 08 p1135 N84-17380
Nonequilibrium segregation and phase instability in alloy films during elevated-temperature irradiation in a high-voltage electron microscope
[DE84-013423] 21 p3505 N84-32214

LAM, P. S.
Numerical analysis of stable crack growth in elastic-plastic materials in small scale and general yielding 03 p0391 N84-12549

LAM, P. T. C.
Secondary pattern computation of an arbitrarily shaped main reflector
[NASA-TM-85527] 16 p2481 N84-25909

LAM, S. H.
Effects of reflections and trapped ions on the thermionic emitter sheath
[DE83-010233] 01 p0150 N84-10988

LAMAR, J. E.
Recent studies at NASA-Langley of vortical flows interacting with neighboring surfaces 03 p0322 N84-12109
Production version of the extended NASA-Langley vortex lattice FORTRAN computer program. Volume 2: Source code
[NASA-TM-83304] 19 p3073 N84-29500

LAMARCHE, G.
IDA: Computer-aided testing of real-time software 05 p0722 N84-14736

LAMB, B. M.
Ponderomotive effects in nonneutral plasmas
[AD-A132109] 04 p0606 N84-13998

LAMB, J. P.
Finite-element analysis of incompressible laminar and turbulent flow with heat transfer
[DE84-000042] 04 p0536 N84-13523
Finite element analysis of incompressible turbulent backstep flow with heat transfer
[DE84-003101] 07 p1003 N84-16502

LAMB, J. W.
Analysis of a Cassegrain antenna having a Gaussian illumination pattern
[REPT-S-147] 15 p2320 N84-24927
Feed system for the Metsaehovi cooled 75-95 GHz receiver
[REPT-S-146] 15 p2328 N84-24978

LAMB, R.
Cryogenic 75-95 GHz front-end for the Metsaehovi radio telescope
[REPT-S-145] 15 p2424 N84-25564

LAMB, T. E.
Water resources data for Arkansas, water year 1982
[PB84-181296] 20 p3229 N84-30522

LAMBARSKI, T. J.
Design analysis of advanced photovoltaic technologies
[DE84-000008] 04 p0557 NC4-13675
A review and summary of cell and module mismatch losses from theoretical and experimental studies 22 p3583 N84-32689

LAMBERGTS, M.
Using recycled superalloys in precision casting 23 p3705 N84-33486

LAMBERT, A.
Reports on cartography and geodesy. Series 2: Translations, number 41. Report on high precision gravimetry, volume 2
[ISSN-0469-4244] 19 p3043 N84-29306

LAMBERT, B. F.
Water resources data for Arkansas, water year 1982
[PB84-181296] 20 p3229 N84-30522

LAMBERT, C.
Optical density radiation dose relationship
[CETIM-100680] 21 p3497 N84-32162

LAMBERT, J.
The lead file: Car fuel additives
[INFORM-NOTE-29] 17 p2725 N84-27341

LAMBERT, J. J.
A method of photo data reduction, with design considerations for the NOVA 800 and UNIVAC 1100/83 computers
[AD-A144537] 24 p3947 N84-34997

LAMBERT, R. F.
Studies of acoustical properties of bulk porous flexible materials
[NASA-CR-173622] 17 p2762 N84-27544
Surface acoustic admittance and absorption of highly porous, layered, fibrous materials 17 p2762 N84-27545
Acoustic structure and propagation in highly porous, layered, fibrous materials 17 p2762 N84-27546
Absorptive surfaces of extended reaction angle of incidence considerations 17 p2763 N84-27547

LAMBERT, R. G.
Criteria for accelerated random vibration tests with non-linear damping 10 p1513 N84-19902

LAMBERTON, H. M.
Zooming and smoothing images using convolution procedures
[AD-A135659] 09 p1372 N84-18957

LAMBERTSON, G. R.
Intense antiproton source for a 20 TeV collider
[DE83-012878] 01 p0142 N84-10934

LAMBIE, F. W.
Classification of the California Desert for geology-energy-mineral resource potential geostatistical classification
[PB84-100668] 10 p1538 N84-20078

LAMBIOTTE, J. J., JR.
Efficient spares matrix multiplication scheme for the CYBER 203 10 p1561 N84-20225

LAMBRECHT, D.
Superconducting AC generators
[BMFT-FB-T-84-102] 23 p3744 N84-33737

LAMBRECHT, R. M.
Trends in exotic-atom research
[DE84-001679] 04 p0602 N84-13974

LAMBREGTS, A. A.
Functional integration of vertical flight path and speed control using energy principles 11 p1618 N84-20588

LAMBRICH, R.
Quantitative determination of gaseous air pollutants by semiconducting sensors
[BMFT-FB-T-84-113] 23 p3793 N84-34058

LAMBRIGTSEN, B. H.
Retrieval of vertical moisture profiles with microwave radiometry 23 p3775 N84-33929

LAMBROPOULOS, J. C.
The effect of creep on the residual stresses generated during silicon sheet growth 18 p2938 N84-29634

LAMBROPOULOS, L.
Boundary layer development on rotating bodies of revolution 07 p0957 N84-16204

LAME, D.
NASA scatterometer on NROSS: A system for global observations of oceanic winds 23 p3782 N84-33960

LAME, D. B.
NASA scatterometer research data processing system: Requirements and design 23 p3781 N84-33979

LAMERIS, J.
Development of a thermal and structural model for a NASTRAN finite-element analysis of a hypersonic wing test structure
[NASA-CR-170413] 08 p1170 N84-17620
Development of a thermal and structural model for a NASTRAN finite-element analysis of a hypersonic wing test structure 17 p2599 N84-26656

LAMERS, H. J. G. L. M.
Shell ejection phenomena in the hypergiant star P Cygni 24 p3977 N84-35189

LAMERSDORF, W.
Specification and interpretation of data model semantics: An integration of two approaches
[PB83-249714] 04 p0584 N84-13856

LAMM, D. R.
Far Infrared Radiometric Spectrometer (FIRRS)
[AD-A133552] 06 p0847 N84-15527

LAMM, P. D.
Estimation of discontinuous coefficients in parabolic systems: Applications to reservoir simulation
[NASA-CR-172301] 10 p1568 N84-20273

LAMM, P. K. D.
Estimation of temporally and spatially varying coefficients in models for insect dispersal
[AD-A135093] 08 p1218 N84-17946

LAMMERZAHL, P.
Properties of the neutral density and composition in the thermosphere
[AD-A131557] 03 p0407 N84-12665

LAMOREAUX, R. H.
Spray pyrolysis of cadmium sulfide/copper indium selenide cells
[DE84-004491] 20 p3235 N84-30537

LAMORTE, M. F.
Comprehensive silicon solar cell computer modeling
[NASA-CR-173953] 23 p3788 N84-34025

LAMPE, F. W.
Free-radical and ion chemistry of volatile silanes, germanes, and phosphines
[DE83-016389] 03 p0350 N84-12277

LAMPE, M.
Dynasty 2: A nonlinear implicit code for relativistic electron beam tracking studies
[AD-A131592] 03 p0432 N84-12829
Plasma current and conductivity effects on hose instability
[AD-A137549] 11 p1729 N84-21282
On the convective properties of the resistive hose instability in an intense relativistic electron beam
[AD-A137527] 12 p1902 N84-22386
Numerical and analytical studies of beam channel tracking
[AD-A139148] 14 p2222 N84-24332

LAMPERT, C. M.
Advanced optical and thermal technologies for aperture control 16 p2517 N84-26156
Electrochromic materials for the regulation of solar energy transmission through windows
[DE84-012165] 20 p3311 N84-31029

LAMSHEV, L. M.
Sound field of turbulent wake 21 p3478 N84-32048

LAN, C. E.
A lifting surface theory in rotational flow
[NASA-CR-172233] 01 p0002 N84-10017
VORCAM: A computer program for calculating vortex lift effect of cambered wings by the suction analogy
[NASA-CR-165800] 23 p3690 N84-33387

LANCASTER, J. K.
Composites for increased wear resistance: Current achievements and future prospects 14 p2154 N84-23904

LANCASTER, R. W.
Expendable current profiler (XCP, Mod 7)
[AD-A142936] 21 p3451 N84-31897

LANCE, R. J.
Space Shuttle Orbiter improved auxiliary power unit 20 p3144 N84-29965
Ground test challenges in the development of the Space Shuttle orbiter auxiliary power unit 24 p3862 N84-34478

LANCRAFT, R. E.
FINDS: A fault inferring nonlinear detection system. User's guide
[NASA-CR-172199] 02 p0176 N84-11156

LAND, F.
Comparative antenna measurements in real environment: Steerable null antenna at 30 - 76 MHz
[FOA-C-30303-E2] 08 p1146 N84-17459

LANDAU, H.
A contribution to 3D-operational geodesy. Part 3: OPERA, a multipurpose program for operational adjustment of geodetic observations of terrestrial type
[SER-B-264-PT-3] 02 p0235 N84-11541

LANDAU, R.
Extragalactic radio sources: Rapid variability at 90 GHz
[AD-A136533] 10 p1595 N84-20451
Data compression techniques for astronomy 18 p2842 N84-28041
Techniques of isophotometry 18 p2842 N84-28042

LANDAU, U.
Numerical solution for the interaction of shock wave with laminar boundary layer in two-dimensional flow on a flat plate
[NASA-TM-77408] 19 p3022 N84-29160

LANDAUER, G.
The information network for a real-time controlled data acquisition of the Modular Optoelectronic Multispectral Scanner (MOMS) 23 p3765 N84-33863

LANDECKER, P. B.
Thermal and nonthermal phenomena in solar flare loops at 20 cm wavelength and in X-rays
[NASA-CR-173429] 14 p2252 N84-24522
Acceleration and confinement of energetic particles in the 7 June 1980 solar flare
[NASA-CR-173545] 16 p2580 N84-26550

LANDELL, P. B.
Limited connected speech experiment
[AD-A131048] 01 p0066 N84-10433

LANDGREBE, A. J.
Helicopter rotor wake geometry and its influence in forward flight. Volume 2: Wake geometry charts
[NASA-CR-3727] 03 p0320 N84-12091
Helicopter rotor wake geometry and its influence in forward flight. Volume 1: Generalized wake geometry and wake effect on rotor airloads and performance
[NASA-CR-3726] 08 p1099 N84-17149

LANDIN, A. R.
Sputtered C-axis inclined piezoelectric films and shear-wave resonators
[DE83-017253] 03 p0455 N84-12997
Piezoelectric shear wave resonator and method of making same
[DE84-014528] 23 p3751 N84-33780
LANDINGHAM, G. M.
An approach to experimental investigation of jet plume effects on missile aerodynamics
[AD-A131336] 02 p0186 N84-11210
LANDIS, A. L.
Chemistry of processible acetylene-terminated imides
[AD-A139417] 14 p2122 N84-23720
LANDIS, D.
Influences on group productivity. 2: Factors inherent in the person. A bibliographic synopsis
[AD-A131015] 06 p0691 N84-15790
LANDIS, D. A.
High resolution, high rate X-ray spectrometer
[DE84-011116] 20 p3190 N84-30266
LANDKOF, M.
Effect of surface doping on the oxidation of chromia former alloys
[DE84-013390] 22 p3667 N84-33247
LANDMAN, L. C.
Low mileage catalyst evaluation with a methanol-fueled Rabbit
[PB83-241620] 02 p0230 N84-11506
A study of the relationship between exhaust emissions and fuel economy
[PB83-235564] 03 p0385 N84-12506
An analysis of carbon monoxide emissions as a function of ambient temperature and vehicle parameters
[PB84-103629] 06 p1167 N84-17599
LANDO, J. B.
Epitaxial polymerization as a molecular engineering technique
[AD-A131405] 02 p0200 N84-11302
LANDOLT, J. P.
An unusual toxicological property of alcohol: The density effect on the organ of balance 22 p3632 N84-33016
LANDON, P.
Development of high strength braze joints in beryllium
[DE84-007243] 13 p1998 N84-22964
LANDRAM, C. S.
Measurement of melt line penetration and heat flux during arc spot welding
[DE84-002013] 13 p1997 N84-22962
LANDRE, S. M.
Vibration test software for electronics mounted in a remotely piloted vehicle 10 p1513 N84-19904
LANDRUM, P. F.
Fates and biological effects of polycyclic aromatic hydrocarbons in aquatic systems
[PB83-250191] 04 p0561 N84-13698
LANDRY, M. J.
UV laser triggering of crowbars used in the Sandia lightning simulator
[DE84-009064] 20 p3180 N84-30199
LANDSBERG, P.
On the use of narrow band infrared channels to determine the outgoing long wave flux
10 p1534 N84-20051
LANDSMAN, W. B.
Ultraviolet studies of interstellar matter
23 p3839 N84-34356
LANDT, J. A.
Effects of nonlinear loads on antennas and scatterers
03 p0365 N84-12376
LANDUKHOVA, N. F.
Efficacy of conditioning animals to hypoxia during sleep 15 p2377 N84-25261
LANE, B. G.
Introduction to tandem mirror physics
[DE84-006644] 12 p1911 N84-22451
LANE, D. M.
Cognitive components underlying the digit symbol test
[PB83-250464] 04 p0574 N84-13779
LANE, D. S.
An Ada (trademark) network: A real-time distributed computer system
[AD-P003423] 20 p3270 N84-30755
LANE, J. H.
A high performance MIL-STD-1750A microprocessor
[AD-P003549] 21 p3334 N84-31153
LANE, J. K.
Audio signal management techniques
[AD-A130391] 01 p0062 N84-10410
LANE, L. J.
Climatic change and streamflow in the southwest
[DE84-012658] 21 p3432 N84-31776
LANE, S. M.
Measuring the neutron energy spectrum of laser-fusion targets with CR-39
[DE84-001422] 04 p0539 N84-13543
LANES, K. A.
APL (A Programming Language) TUTOR: An on-line instructional facility
[AD-A140117] 15 p2393 N84-25359
LANFRANCO, M. J.
Catalytic surface effects on space thermal protection system during Earth entry of flights STS-2 through STS-5 01 p0024 N84-10152
LANG, D. D.
Vacuum measurements on the tandem mirror experiment upgrade (TMX-U) fusion experiment
[DE83-017836] 03 p0448 N84-12946
Design and fabrication of circular and rectangular components for electron-cyclotron-resonant heating of tandem mirror experiment-upgrade
[DE84-003244] 07 p1078 N84-17010
Circular waveguide systems for electron-cyclotron-resonant heating of the tandem mirror experiment-upgrade
[DE84-003739] 08 p1233 N84-18062
Microwave interferometer using 94-GHz solid-state sources
[DE84-003741] 09 p1392 N84-19090
LANG, E.
Fundamental research for production of high polymers on synthesis gas basis
[BMFT-FB-T-84-075] 19 p3001 N84-29016
Practical implications of the use of aluminide coatings for the corrosion protection of superalloys in gas turbines 23 p3703 N84-33476
LANG, H.
The Project STRAFAM: Test of a new parachute based instrument carrier for stratospheric research
[BMFT-FB-W-84-021] 21 p3445 N84-31859
LANG, H. R.
Preliminary geologic/spectral analysis of LANDSAT-4 Thematic Mapper data, Wind River/Bighorn basin area, Wyoming 20 p3213 N84-30413
LANG, H. V.
Steam condenser developments
06 p0841 N84-15486
LANG, J. H.
Radio astronomy 22 p3683 N84-33349
LANG, K. R.
Very Large Array observations of solar active regions. 4: Structure and evolution of radio bursts from 20 cm loops
[AD-A133907] 06 p0940 N84-16109
The circularly polarized sun at 12.6 cm wavelength
[AD-A133668] 06 p0940 N84-16110
Three dimensional structure and time development of radio emission from solar active regions
[AD-A126640] 07 p1093 N84-17110
Bright, rapid, highly polarized radio spikes from the M dwarf AD Leo
[AD-A136205] 09 p1418 N84-19275
Very large array observations of solar active regions
[AD-A139287] 15 p2428 N84-25586
LANG, P. H.
Application of JOVIAL (J-73) to digital flight controls
[AD-P003525] 21 p3330 N84-31129
LANG, R. H.
UHF radiowave propagation through forests
[AD-A130399] 01 p0062 N84-10408
Discrete random media techniques for microwave modeling of vegetated terrain 12 p1832 N84-21939
Discrete random media techniques for microwave modeling of vegetated terrain 12 p1834 N84-21952
LANG, S. B.
Pre-existing polarization and influence of electrode materials on PVF2 electrets as determined by thermal pulse and pyroelectric methods
[AD-A132896] 05 p0659 N84-14335
LANG, W. E.
A passively controlled appendage deployment system for the San Marco D/L spacecraft
15 p2347 N84-25081
LANGBEIN, D.
Foreign particles at a solidification front
[BMFT-FB-W-83-031] 10 p1495 N84-19777
On the separation of alloys exhibiting a miscibility gap
17 p2612 N84-26720
LANGE-SMITH, M. L.
The effect of perforation on the aerodynamics of a spoiler
[BU-286] 15 p2255 N84-24545
LANGE, A. F.
Stabilization of the solvent Methyl-n-Amyl Ketone (MAK) in vinyl paints
[AD-A131059] 01 p0050 N84-10323
LANGE, B.
Study of Attitude Control and Guidance System (ACGS) for orbit change stage
[ESA-CR(P)-1797] 08 p1120 N84-17285
LANGE, F. F.
Sintering phenomena of non-oxide silicon compounds
[DE84-006599] 12 p1802 N84-21747
Processing science to increase the reliability of ceramics
[AD-A143207] 22 p3559 N84-32539
Strengthening and strength uniformity of structral ceramics
[AD-A144302] 24 p3889 N84-34625
LANGE, G.
Procedure of treating a case of damage
14 p2125 N84-23735
Classification, causes, and characteristics of fractures
14 p2125 N84-23736
Microscopic and macroscopic appearance of ductile violent fractures (slide fractures)
14 p2125 N84-23739
Macroscopic appearance of vibratory fractures
14 p2126 N84-23741
LANGE, M. A.
Impact cratering and spall failure at gabbro
[NASA-CR-174618] 04 p0562 N84-13704
FeO and H-2O and the homogeneous accretion of the earth
[NASA-CR-173242] 07 p1028 N84-16664
LANGE, P.
The modification of the modulation transfer function by sea slicks measured by L-band radar
23 p3780 N84-33971
LANGE, T.
Magnetic bearing design for high speed momentum wheels 09 p1296 N84-18474
LANGE, W.
Critical slowing down and magnetically-induced self-pulsing in a sodium-filled Fabry-Perot resonator
14 p2240 N84-24449
LANGE, W. R.
A high resolution system for analogue recording and digital processing of measured values in fusion research
[JUEL-1909] 23 p3752 N84-33786
LANGEL, R. A.
The near-Earth magnetic field at 1980 determined from MAGSAT data
[E84-10170] 21 p3426 N84-31733
Mapping magnetized geologic structures from space: The effect of orbital and body parameters
[E84-10191] 22 p3614 N84-32895
Large-scale, near-Earth, magnetic fields from external sources and the corresponding induced internal field
[NASA-TM-85012] 24 p3918 N84-34807
LANGELLIER, A.
Multipath pyrotechnic relay: Conception with numerical simulations and experimental validation
[SNIAS-832-422-101] 16 p2474 N84-25855
LANGENDORF, P. M.
Beyond the data base: Technology for information resource management
[AD-A138840] 13 p2067 N84-23402
LANGER, P.
Modification of current feedback strategies: A text synthesis approach
[AD-A142187] 19 p3068 N84-29463
LANGEVIN, C.
Entrainment and deposition of drops in a dispersed 2-phase flow: An experimental investigation
[CFD/83/6] 18 p2838 N84-28013
LANGEVIN, R. C.
Development and assessment of the Monark cycle ergometer for anaerobic muscular exercise
[AD-A133173] 06 p0847 N84-15523
LANGHAMMER, H. J.
Cladding of carbon steel with stainless steel
[BMFT-FB-T-84-030] 18 p2816 N84-27877
LANGLEY, P.
A machine learning approach to student modeling
[AD-A141704] 19 p3080 N84-29547
LANGSTAFF, J. E.
Statistical correlations of surface wind data: A comparison between a National Weather Service station and a nearby aerometric network
[PB83-237263] 02 p0257 N84-11680
LANGTON, W. G.
Safety and protection for large-scale superconducting magnets. A FY 1982 report
[DE83-012961] 01 p0154 N84-11013
Passive and active circuits for vertical plasma stabilization
[DE84-008857] 18 p2933 N84-28599
LANGWELL, J. D.
Temporal and spatial gaseous HCl concentrations in the near field STS postlaunch environment, Kennedy Space Center, Florida
[AD-A136935] 10 p1532 N84-20032

LANIER, J. R., JR.
A high voltage electrical power system for low Earth orbit applications
[NASA-TM-86453] 21 p3390 N84-31511
LANKELMA, J. V.
Stochastic dynamical systems with a cyclic structure
[MC-TW-247/83] 13 p2037 N84-23214
The exit problem for a stochastic dynamical system in a domain with almost everywhere characteristic boundaries
[CWI-AM-R8403] 19 p3092 N84-29635
LANKFORD, D. W.
Numerical simulation of a three-dimensional chemical laser flow field including radiation produced by laser induced fluorescence 16 p2498 N84-26026
LANKFORD, J.
Compressive strength and damage mechanisms in partially stabilized zirconia
[AD-A137513] 10 p1459 N84-19529
Study of the effects of metallurgical factors on the growth of fatigue microcracks
[AD-A137954] 11 p1669 N84-20888
Study of the influence of metallurgical factors on fatigue and fracture of aerospace structural materials
[AD-A140659] 17 p2623 N84-26789
LANKFORD, J., JR.
Characterization and analysis of cavity development during creep of ceramics at elevated temperature
[DE84-003113] 07 p0979 N84-16345
LANN, N. A.
TIS (Technology Information System): A focal point for technology transfer
[AD-A130798] 01 p0161 N84-11060
TIS: An intelligent gateway computer for information and modeling networks. Overview
[DE83-017986] 04 p0616 N84-14067
LANNI, C.
Investigation on low pressure limit of Bayard-Alpert gauge
[DE84-002578] 05 p0685 N84-14502
LANOU, R.
Hadron-hadron collider group
[DE83-010704] 03 p0437 N84-12865
LANOUETTE, A.
Design and analysis of a longitudinal ride comfort control system for a Short Take-Off and Landing (STOL) aircraft
[UTIAS-TN-254] 17 p2748 N84-27442
LANSING, F. L.
Intermodulation product levels in flame-sprayed materials 22 p3573 N84-32629
Stable density stratification solar pond
[NASA-CASE-NPO-15419-2] 22 p3616 N84-32910
LANSING, J. C.
Thermal band characterization of LANDSAT-4 Thematic Mapper 20 p3207 N84-30376
LANSMAN, M.
Performance in dual tasks
[AD-A138603] 14 p2186 N84-24096
A Unified Model of Attention and Problem Solving
[AD-A138787] 14 p2186 N84-24097
LANTERI, A.
Thermal control of the EXOSAT European satellite 10 p1441 N84-19409
LANTRADE, P.
Non-invasive methods of cardiovascular exploration in aerospace medicine
[AGARD-AG-277(E)] 11 p1699 N84-21082
Exploration of arterial function using Doppler flow determination. Application to aeronautical and space medicine 11 p1700 N84-21091
LANTZ, S. R.
Determining the alpha dynamo parameter in incompressible homogeneous magnetohydrodynamic turbulence
[NASA-TM-85110] 02 p0295 N84-11936
LANUM, J.
Effects of ionizing radiation and restraint stress on activity, avoidance conditioning, and stomach ulcers in albino rats
[AD-A141515] 19 p2984 N84-28911
LANYI, G.
Tropospheric delay effects in radio interferometry 22 p3574 N84-32636
LANYON, L. E.
Stress fractures: The remodelling response to excessive repetitive loading
[AD-A130681] 06 p0887 N84-15765
Static versus dynamic loads as an influence on bone remodelling
[NASA-CR-173365] 09 p1360 N84-18887
Regulation of bone mass by mechanical strain
[NASA-CR-173363] 09 p1360 N84-18888
Control of bone remodelling by applied dynamic loads
[NASA-CR-173287] 09 p1361 N84-18889
LANZEROTTI, L. J.
The ISPM experiment for spectral, composition and anistropy measurements of charged particles at low energie 09 p1261 N84-18235
Dependence of hydromagnetic energy spectra on interplanetary parameters
[AD-A138745] 13 p2036 N84-23209
LANZIN, S. A.
Coordinated X-ray and ultraviolet observations of RU Lupi 24 p3978 N84-35199
LAO, L. L.
Variational-moment method for computing magnetohydrodynamic equilibria
[DE83-017477] 03 p0450 N84-12957
LAPASIN, R.
Rheological study of clay-kaolin aqueous suspensions
[NASA-TM-77363] 14 p2121 N84-23711
LAPASSET, G.
Tensile strength and recrystallization of the 7010 and 7475 alloys: Low cycle fatigue of the 7010 alloy
[REPT-18/5069-M] 18 p2815 N84-27873
LAPCHENKOV, V. I.
Abrasive properties of ferroalloys
[BLL-M-35416-(5828.4)] 07 p0973 N84-16306
LAPENKOV, M. I.
Allomonades: New group of vibrionaceae family microorganisms 17 p2742 N84-27410
LAPERROUSAZ, P.
Britain's ICI develops new easy-to-shape composites 14 p2118 N84-23695
LAPEYRE, G. J.
Quantum structure of adsorbates on semiconductor surfaces
[AD-A143465] 22 p3663 N84-33223
LAPICKI, G.
Implications of heavy-ion-induced satellite X-ray emission. Part 2: Production of K and L X-rays by 0.9 to 2.6 MeV/u Ar ions in thick targets of V, Cu, Nb, Ta, and Pt
[DE83-015681] 03 p0453 N84-12962
LAPIKOV, G. M.
Individual responses to combined heat and physical load 18 p2896 N84-28374
LAPINS, M.
Control definition study for advanced vehicles
[NASA-CR-3738] 07 p0958 N84-16212
LAPINSKAYA, Y. M.
Effects of lunar soil and metal oxides on thermal and radiochemical stability of amino acids 14 p2251 N84-24518
LAPOINTE, J. R., JR.
Ambiguity surface statistics and fluctuations
[AD-A137499] 10 p1570 N84-20284
LAPORTE, C.
Investigation of a microwave discharge in argon/helium mixtures
[LP-202] 07 p0995 N84-16451
Microwave discharges in capillary tubes
[LP-203] 16 p2558 N84-26410
LAPP, M.
Applications of laser scattering probes to turbulent diffusion flames
[AD-A138207] 12 p1792 N84-21685
LAPRAD, R. F.
HYTESS: A hypothetical turbofan engine simplified simulation
[NASA-TM-83561] 07 p0954 N84-16184
LAPRUN, I. B.
Analysis of some aspects of mechanism of action of helium-neon laser 21 p3455 N84-31922
LAPRUS, W.
Representation of TEM feidls in gyrotropic media by scalar Hertz potentials
[ISSN-0208-5658] 19 p3003 N84-29034
Asymptotic solutions of dispersive quasi-linear equations
[ISSN-0208-5658] 19 p3081 N84-29552
Solutions of nonlinear equations of magneto-ionic theory
[ISSN-0208-5688] 23 p3794 N84-34059
LAPSHINA, N. A.
Changes in cardiac output and orthostatic stability of cosmonauts 02 p0259 N84-11697
LAQUER, H. L.
Alternative gaseous-fuels safety assessment
[DE84-001735] 05 p0662 N84-14350
LARDUINAT, E.
An analysis of new techniqes for radiometric correction of LANDSAT-4 Thematic Mapper images
[E84-10086] 10 p1521 N84-19957
An analysis of the high frequency vibrations in early Thematic Mapper scenes 20 p3210 N84-30395
LARIN, V. B.
Determining orientation of solid object 17 p2642 N84-26907
LARINA, I. B.
Rubber mixture softener: A product of thermal breakdown of substandard polyisoprene
[CSIR-TRANS-1649] 01 p0048 N84-10311
LARINA, I. N.
Interaction of jet discharged from container and opposing supersonic stream of rarefied gas 17 p2644 N84-26917
LARISCH, H. J.
New opportunities for old measuring methods by using Automatic Seconds Theodolites (AST) 02 p0234 N84-11533
LARKIN, J. F.
Optical fiber splice sled
[AD-D011180] 24 p3910 N84-34767
LARKIN, J. H.
Towards a general scientific reasoning engine
[AD-A141263] 18 p2924 N84-28543
LARKIN, N. A.
Galerkin's method and stabilization method for variable type equations
[PREPRINT-789] 12 p1895 N84-22348
LARKIN, T. J.
Climatic atlas of Texas
[PB84-162908] 14 p2182 N84-24074
LARKIN, W.
Human reactions to transient electric currents, volume 8
[PB84-112895] 08 p1202 N84-17834
LAROCHE, M. A.
Deposits on light alloys
[CETIM-12-F-380] 21 p3368 N84-31371
LAROCHELLE, V.
A frequency stabilization and trigger control unit for hybrid TEA-CO2 lasers
[AD-A132247] 04 p0540 N84-13552
LAROS, J.
Log N-log S in inconclusive
[NASA-CR-173153] 07 p1083 N84-17111
LAROS, J. G.
Inverse comptonization vs. thermal synchrotron
[DE84-001039] 04 p0622 N84-14105
The 3-10 keV and 0.1- to 2-MeV observations of 4 gamma-ray bursts
[DE84-001334] 05 p0766 N84-15022
Three precise gamma-ray burst source locations
[NASA-TM-86132] 22 p3660 N84-33332
LAROWE, R. D.
Multilayer ceramic capacitor
[AD-D011166] 23 p3742 N84-33723
LARRABEE, R. D.
Measurement techniques for high-resistivity detector-grade silicon
[PB84-155902] 14 p2149 N84-23877
LARRICK, B. F.
Evaluation of mica substitutes for use in thermal batteries
[AD-A140650] 17 p2723 N84-27330
LARSEN, D. C.
Property screening and evaluation of ceramic turbine materials
[AD-A142739] 21 p3343 N84-31210
LARSEN, J. C.
Advanced laser stratospheric monitoring systems analyses
[NASA-CR-172348] 16 p2552 N84-26373
Stratospheric NO and NO2 profiles at sunset from analysis of high-resolution balloon-borne infrared solar absorption spectra obtained at 33 deg N and calculations with a time-dependent photochemical model
[NASA-TM-86285] 20 p3240 N84-30566
LARSEN, J. W.
Far Infrared Radiometric Spectrometer (FIRRS)
[AD-A133552] 06 p0847 N84-15527
LARSEN, M. E.
Least-squares smoothing of direct-exchange in zonal analysis
[DE84-002612] 22 p3595 N84-32770
LARSEN, M. F.
The MST radar technique: Requirements for operational weather forecasting 17 p2682 N84-27077
Radar observations of inertial period waves in the lower stratosphere over Arecibo 17 p2683 N84-27081
The MST radar technique: A tool for investigations of turbulence spectra 17 p2688 N84-27117
LARSON, B. D.
Optical spectroscopy of disordered materials and X-ray scattering from surfaces 22 p3682 N84-33345
LARSON, D. E.
SAGUARO: A finite-element computer program for partially saturated porous flow problems
[DE83-015603] 02 p0219 N84-11438
LARSON, E.
Changes in TM response of soil scenes due to tillage, residue, and weathering 23 p3766 N84-33874

LARSON, H. J.
The CEMS (Comprehensive Engine Management System) IV OAP (Oil Analysis Program) algorithm
[AD-A131055] 01 p0011 N84-10072
LARSON, K. R., JR.
Thermomechanical processing of M-50 steel
[AD-A132272] 04 p0499 N84-13271
LARSON, L. A.
Transmission electron microscopy characterization of microstructural features of Al-Li-Cu alloys
[NASA-TM-84364] 02 p0193 N84-11255
A surface analytical examination of Stringer particles in Al-Li-Cu alloys
[NASA-TM-85854] 02 p0193 N84-11257
LARSON, M.
Preliminary study of a radiantly heated fluidized bed for the production of high purity silicon
[NASA-CR-173758] 19 p3050 N84-29352
LARSON, M. S.
The effect of constant versus oscillatory rates on dynamic stability derivatives
[AD-A136913] 10 p1421 N84-19293
LARSON, R. D.
Nuclear reactor: On schedule and under cost
[AD-P002790] 13 p2056 N84-23337
LARSON, R. E.
Measurements of atmospheric aerosols: Experimental methods and results of measurements off the east coast of the United States
[AD-A130998] 02 p0248 N84-11626
Sea salt aerosol, atmospheric radon and meteorological observations in the western South Atlantic Ocean (February 1981)
[AD-A134792] 08 p1195 N84-17794
LARSON, R. W.
SAR calibration: A technology review
07 p0988 N84-16399
Analysis of bistatic SAR signatures
23 p3777 N84-33947
Digital processing and absolute calibration of a stripmap synthetic aperture radar 23 p3778 N84-33954
LARSON, T. J.
Evaluation of a flow direction probe and a pitot-static probe on the F-14 airplane at high angles of attack and sideslip
[NASA-TM-84911] 11 p1606 N84-20514
Air data position-error calibration using state reconstruction techniques
[NASA-TM-86029] 22 p3535 N84-32384
LARSON, T. K.
Measurement of two-phase flow velocity using a laser Doppler anemometer
[DE83-013522] 01 p0082 N84-10531
LARSSON, L.
Correlating aerial photographs to LANDSAT Multispectral Sensor (MSS) data to measure ground control points 15 p2358 N84-25150
LARSSON, L. E.
Report on study trip to France, 28 June-9 July 1983
[FOA-C-59007-H1] 10 p1555 N84-20193
Report on a visit to England, 7-10 November 1983
[FOA-C-59009-H1] 18 p2901 N84-28402
The military aircrew work environment
[FOA-A-59005-H1-H2] 18 p2915 N84-28490
LARSSON, P. G.
RF sputtering and annealing of amorphous zinc telluride films
[USIP-84-04] 20 p3159 N84-30061
LARSSON, R.
General triangulation: Incorporating photogrammetric and other observations 15 p2358 N84-25151
GENTRI: A system for simultaneous adjustment of photogrammetric and other observations
15 p2358 N84-25152
LARUE, S. L.
Comparative analysis of government and private sector ADP acquisition
[AD-A144523] 24 p3969 N84-35131
LARUELLE, G.
Air intakes for a probative missile of rocket ramjet
[NASA-TM-77407] 09 p1251 N84-18170
LASAGNA, P.
Acoustic flight testing of advanced design propellers on a JetStar aircraft 18 p2783 N84-27661
LASALA, G. J., JR.
Periodic spectral variation in Cygnus X-2 and Scorpius X-1 06 p0937 N84-16088
LASCANO, R. J.
CONSERVB: A numerical method to compute soil water content and temperature profiles under a bare surface
[E84-10113] 13 p2005 N84-23006
Estimating net rainfall, evaporation and water storage of a bare soil from sequential L-band emissivities
23 p3769 N84-33889
LASCHE, G. P.
Feasibility of a laser or charged-particle-beam fusion-reactor concept with direct electric generation by magnetic-flux compression
[DE83-015735] 03 p0381 N84-12482
LASER, D.
HgCdTe surface and defect study program
[AD-A142342] 20 p3308 N84-31010
LASHUK, V. S.
A procedure for determining the tempo at which alloys solidify
[BLL-M-35642-(5828.4)] 22 p3553 N84-32497
LASIER, D. D.
A theoretical analysis of natural convection towers for solar energy conversion
[DE83-011956] 16 p2512 N84-26118
LASKER, B. M.
PDS concepts and astronomical applications: An overview 18 p2840 N84-28029
LASKOWSKI, G.
The generation of higher levels of turbulence in the test section of the high speed cascade wind tunnel at Brunswick for simulation of turbomachinery conditions
[ESA-TT-815] 16 p2440 N84-25654
LASKOWSKI, P.
The effect of vertical datum inconsistencies on the determination of gravity related quantities
[AD-A137881] 11 p1682 N84-20978
LAST, I.
Conductivity in semiconductors induced by vibrational-to-electronic energy transfer
[AD-A140094] 16 p2553 N84-26380
Formation of electron-hole pairs in a semiconductor by vibrationally-excited molecules
[AD-A143552] 22 p3664 N84-33226
LASUKOV, V. V.
Electromagnetic effects in strong field of single crystals 21 p3485 N84-32084
LATANISION, R. M.
A molecular orbital model of intergranular embrittlement
[AD-A133056] 05 p0655 N84-14307
Studies of metastable microcrystalline and glassy alloys
[AD-A139941] 15 p2297 N84-24787
LATEGAN, A. H.
A formula for the sputtering yield of polycrystalline materials 06 p0816 N84-15313
LATHAM, G. V.
Development of an advanced ocean-bottom sensor system
[AD-A135901] 09 p1345 N84-18788
LATHAM, R.
Image generator architectures and features
[AD-P003449] 21 p3508 N84-32226
LATHAM, R. L.
Interaction of stress waves and cracks using a second order accurate finite difference method
03 p0387 N84-12522
LATHROP, J.
Liquefied energy gas terminal risk: A comparison and evaluation
[IIASA-RR-83-34] 15 p2360 N84-25161
LATHROP, J. W.
Accelerated degradation of silicon metallization systems 12 p1838 N84-21983
Investigation of accelerated stress factors and failure/degradation mechanisms in terrestrial solar cells
[NASA-CR-173757] 18 p2870 N84-28222
LATHROP, R. H.
Parallelism in manipulator dynamics. Revision
[AD-A142515] 20 p3196 N84-30299
LATIMER, D.
The filling effect of blockages in wide angle diffusers
[BU-284] 15 p2332 N84-25005
LATIMER, P. J.
Nonlinear elastic behavior of piezoelectric trigonal crystals: Measurements on quartz and LiNbO3
[AD-A131350] 02 p0298 N84-11956
LATOS, T. S.
A battery charger and state of charge indicator
[NASA-CR-173961] 23 p3743 N84-33725
LATOSZYNSKI, P.
Behaviour of four non-migratory antioxidants in solid polyethylene insulation 11 p1721 N84-21228
LATOUCHE, G.
The normal approximation and queue control for response times in a processor-shared computer system model
[AD-A139587] 14 p2210 N84-24263
LATOUR, J.
On the identification of normal modes of oscillation from observations of the solar periphery
[NASA-CR-173667] 19 p3123 N84-29844
LATSKEVICH, A. A.
Metabolism and nutritional status in emergency situations without food supply or on a low-calorie diet
07 p1046 N84-16781
Blood plasma amino acid levels in cosmonauts before and after 175-day mission aboard Salyut-6
15 p2375 N84-25250
Blood plasma free amino acids under hypokinetic conditions 20 p3253 N84-30648
LATTER, R.
Developing new materials at elevated temperatures and pressures
[AD-A141235] 18 p2940 N84-28650
LATTY, R. S.
Impact of Thematic Mapper sensor characteristics on classification accuracy 20 p3213 N84-30410
Quick look analysis of TM data of the Washington, District of Columbia area 20 p3214 N84-30418
LATYPOV, Z. Z.
Laser cell analyzer 17 p2741 N84-27406
LAU, C. W.
MIT miniaturized disk bend test
[DE84-001275] 05 p0694 N84-14554
LAU, H.
OTS (Office of Toxic Substances) Information Architecture Notebook
[PB84-188655] 21 p3520 N84-32301
LAU, K. M.
Large-scale atmosphere-ocean coupling
[AD-A143162] 21 p3447 N84-31873
LAU, K. S. Y.
Chemistry, characterization and processing of IMC curing polymers
[AD-A133479] 06 p0810 N84-15274
LAU, K. Y.
Bistable injection lasers 14 p2241 N84-24455
LAU, R. L.
Computing theory and practice
09 p1403 N84-19167
LAU, S. F.
Heat capacity and thermodynamic properties of linear macromolecules 06 p0809 N84-15263
LAU, S. S.
Silicide formation and Schottky barrier of rare-earth metals on Si
[AD-A131750] 03 p0452 N84-12975
Silicide formation and Schottky barrier of rare-earth metals on Si
[AD-A131749] 03 p0452 N84-12976
Silicide formation and Schottky barrier of rare-earth metals on Si
[AD-A131748] 03 p0452 N84-12977
Comparison of thermal, line-source electron beam and CW laser annealing for the fabrication of ErSi/sub 2 Schottky barrier on Si
[DE84-003105] 07 p1081 N84-17031
LAU, Y. Y.
On the convective properties of the resistive hose instability in an intense relativistic electron beam
[AD-A137527] 12 p1902 N84-22386
A collective interaction klystron
[AD-A141275] 18 p2834 N84-27991
Stability of laminar electron layers
[AD-A143788] 23 p3822 N84-34235
LAUB, A. J.
Numerical aspects of control design computations
01 p0015 N84-10097
LAUB, G. H.
Airloads on bluff bodies, with application to the rotor-induced downloads on tilt-rotor aircraft
[NASA-TM-84401] 02 p0174 N84-11142
LAUBE, H.
Development, production and testing of the primary structure for the Shuttle Pallet Satellite (SPAS-01)
[MBB-UR-580-82-OE] 05 p0642 N84-14227
LAUBIN, P.
Analytic wave front and microlocal decomposition distributions 14 p2211 N84-24272
LAUBSCHER, J. M. S.
Analysis of structural storage air conditioning systems
11 p1640 N84-20725
LAUCHE, H.
The ISPM interstellar neutral-gas experiments
09 p1261 N84-18234
LAUCHLE, G. C.
Effect of turbulent boundary layer flow on measurement of acoustic pressure and intensity, revised
[AD-A142473] 20 p3184 N84-30229
On measuring the acoustic intensity of hydroacoustic sources
[AD-A142484] 20 p3291 N84-30893
LAUCHT, H.
Feasibility study of advanced optical techniques for ocean color measurement
[MBB-R3700/292] 12 p1837 N84-21974

LAUDE, H.
Meteorological measurements in the Northern German coastal area for wind energy prospection
[BMFT-FB-T-84-017] 16 p2529 N84-26241
LAUE, E.
Properties of simulated comet mantle
13 p2076 N84-23452
A possible source for the Martian circumpolar dune material 13 p2082 N84-23490
LAUER, D. T.
LANDSAT 4 investigations of thematic mapper and multispectral scanner applications
[E84-10017] 02 p0237 N84-11554
LANDSAT 4 investigations of thematic mapper and multispectral scanner applications
[E84-10006] 03 p0392 N84-12555
LANDSAT 4 investigation of thematic mapper and multispectral scanner applications
[E84-10075] 07 p1021 N84-16622
LANDSAT 4 investigations of Thematic Mapper and multispectral scanner applications
[E84-10100] 13 p2004 N84-23003
LANDSAT 4 investigations of Thematic Mapper and Multispectral Scanner applications
[E84-10152] 17 p2709 N84-27247
Study of Thematic Mapper and Multispectral Scanner data applications 20 p3215 N84-30421
LAUER, E. J.
Beam dynamics in the Advanced Test Accelerator (ATA)
[DE84-001421] 04 p0598 N84-13947
Time-resolved beam-profile measurements on the Experimental Test Accelerator (ETA)
[DE84-002453] 07 p1072 N84-16969
LAUER, G. S.
Distributed detection of signal waveforms in additive Gaussian observation noise
[AD-A131016] 01 p0066 N84-10434
LAUER, J. L.
Topological reaction rate measurements related to scoffing
[NASA-TM-83486] 05 p0652 N84-14288
Surface topographical changes measured by phase-locked interferometry
[NASA-CR-3757] 07 p1074 N84-16984
Emission FTIR analyses of thin microscopic patches of jet fuel residue deposited on heated metal surface
[NASA-CR-168331] 08 p1139 N84-17410
Optical and other property changes of M-50 bearing steel surfaces for different lubricants and additive prior to scuffing
[NASA-TM-83746] 24 p3888 N84-34620
LAUER, L.
Preparation of a design study for the construction of a 2 million tons/annum commercial scale hydrogenation plant
[BMFT-FB-T-83-135] 03 p0405 N84-12652
LAUER, T. R.
High resolution surface photometry of elliptical galaxies 17 p2776 N84-27625
LAUG, M.
Observation of the Earth in the middle infrared
[ESA-TT-790] 03 p0402 N84-12629
LAUGHERY, K. R., JR.
A computer simulation to predict target identification latencies
[AD-P003272] 18 p2907 N84-28437
LAUGHLIN, D. E.
Effects of alloy composition and processing on the microstructure of D-9 type stainless steel
[DE84-003022] 07 p0975 N84-16321
LAUGHLIN, R. B.
Fractional quantization of the Hall effect
[DE84-008894] 20 p3310 N84-31023
LAUKART, W.
Computer assisted processing of soil productivity assessment data for the production of soil classification maps on the basis of soil productivity assessment data on the scale 1:5000 (DGK 5 Bo)
07 p1019 N84-16610
LAUNDER, B. E.
Developing turbulent flow in strongly curved passages of square and circular cross-section
[AD-A143279] 22 p3593 N84-32755
LAUNER, R. L.
A combined Bayes-sampling theory method for monitoring a Bernoulli process
[AD-P003840] 24 p3938 N84-34928
LAUR, R.
Development of technology, circuit design and simulation procedures for Very Large Scale Integration (VLSI) systems, volume 1
[BMFT-FB-T-83-170-VOL-1] 10 p1487 N84-19724
Development of technology, circuit design and simulation procedures for Very Large Scale Integration (VLSI) systems, volume 2
[BMFT-FB-T-83-170-VOL-2] 10 p1487 N84-19725
LAURENDEAU, N. M.
Saturated laser fluorescence in turbulent sooting flames at high pressure 11 p1612 N84-20551
LAURENT, C.
Statistical approach to damage tolerance assessment
[SNIAS-832-111-112] 15 p2260 N84-24575
LAURENT, J.
A sample performance of the grille spectrometer aboard Spacelab
[AERONOMICA-ACTA-A-281-1984]
16 p2494 N84-26003
Trace constituants measurements deduced from spectrometric observations onboard Spacelab
[AERONOMICA-ACTA-A-286-1984]
20 p3239 N84-30565
LAURO, S.
A rigid embedding of the closed Friedmann manifold
17 p2757 N84-27502
LAUTENBACH, P.
The Spacelab Atmosphere Storage and Control Section (ASCS) and its orbiter common hardware flight performance 10 p1443 N84-19427
Spacelab/Orbiter atmosphere revitalization subsystem commonality and flight experience
10 p1443 N84-19428
LAUTENSCHLAGER, M.
Parametrization of the turbulent diffusion in the atmosphere using the turbulent energy equation(s)
[GKSS-83-E-60] 14 p2174 N84-24019
LAUTERWASSER, B. D.
A 20-GHz IMPATT diode development
[S-3057] 02 p0212 N84-11387
LAUTNER, D. E.
Aircraft-store Electrical Interconnection System (AEIS) functional requirements
[AD-P003527] 21 p3330 N84-31131
Signal set standardization for the aircraft-store electrical interconnection system
[AD-P003528] 21 p3330 N84-31132
LAUVER, R. W.
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-3] 13 p1953 N84-22698
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-4] 13 p1953 N84-22699
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-5] 13 p1953 N84-22700
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-6] 13 p1953 N84-22701
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-1] 18 p2817 N84-27885
LAUWERIER, H. A.
Chaos and order
[MC-TW-243/83] 07 p1067 N84-16930
Bifurcation of map resonance 1 : 4
[MC-TW-245/83] 13 p2035 N84-23204
Local bifurcation of a logistic delay map
[MC-TW-246/83] 13 p2035 N84-23205
Global bifurcation of a logistic delay map
[CWI-AM-R8402] 19 p3092 N84-29634
Entire functions for the logistic map 2
[CWI-AM-R8404] 19 p3092 N84-29636
LAUX, U.
Design aspects of TV-SAT/TDF-1 heat pipes
10 p1440 N84-19404
System aspects of the European Retrievable Carrier (EURECA) thermal control system
10 p1444 N84-19432
The thermal design of the European complement of first Spacelab mission (FSLP)
[MBB-UR-645-83-O] 16 p2563 N84-26442
LAVAL, P.
Explicit second order splitting schemes for solving hyperbolic nonlinear problems: Theory and application to transonic flow
[ESA-TT-768] 06 p0902 N84-15855
LAVENDEL, H. W.
Iron-copper metallization for flexible solar/cell arrays
12 p1841 N84-22000
LAVENTURE, G. C., JR.
Measuring accurately single-phase sinusoidal and non-sinusoidal power
[AD-A136408] 09 p1307 N84-18541
LAVERDET, G.
Kinetic studies of atmospheric reactions of OH radicals 13 p2012 N84-23050
LAVERGNE, G.
An aerodynamic study of combustion in the combustion chambers of turbomachines: Experimental and theoretical approaches 15 p2293 N84-24764
LAVERNIA, E.
Structures and properties of rapidly solidified 9Cr-1Mo steel
[DE84-001276] 04 p0499 N84-13276
LAVERRE, J.
The wind tunnel S2MA of the aerodynamic testing plant in Modane-Avrieux, France
[ONERA-NT-1983-5] 16 p2454 N84-25735
LAVERTY, N. P.
Lightning mapper sensor design study
[NASA-CR-170909] 04 p0566 N84-13732
LAVERY, T. F.
EPA (Environmental Protection Agency) model development for stable plume impingement on elevated terrain obstacles
[PB84-130491] 10 p1533 N84-20038
LAVIELLE, B.
Cosmic ray exposure ages of iron meteorites, complex irradiation and the constancy of cosmic ray flux in the past 11 p1755 N84-21455
LAVIN, P. M.
Synthesis of regional crust and upper-mantle structure from seismic and gravity data
[E84-10061] 06 p0864 N84-15631
LAVINE, D.
Analysis of subpixel registration accuracy
03 p0394 N84-12570
LAVIOLETTE, P. A.
Galactic explosions, cosmic dust invasions, and climatic change 11 p1757 N84-21469
LAVIOLETTE, P. E.
The advection of submesoscale thermal features in the Alboran Sea Gyre
[AD-A133877] 06 p0884 N84-15749
Short-term measurements of surface currents associated with the Alboran Sea during Donde Va?
[AD-A133812] 06 p0884 N84-15750
The Grand Banks experiment: A satellite/aircraft/ship experiment to explore the ability of specialized radars to define ocean fronts
[AD-A136181] 09 p1304 N84-18522
The depiction of Alboran Sea Gyre during Donde Va? using remote sensing and conventional data
17 p2719 N84-27306
LAVOIE, G. A.
HC quench layer formation in combustion processes
[DE84-005068] 12 p1823 N84-21883
LAVRENTYEV, V. I.
Features of physiochemical reaction in aluminum-boron composite material 12 p1783 N84-21636
LAVRENTYEVA, I. N.
Experimental psychological methods used in expert evaluation of mental work capacity of flight personnel in the presence of functional disturbances and central nervous system diseases 02 p0261 N84-11712
LAVROSVKIY, L. A.
IRIS pulsing ruby light source
21 p3482 N84-32066
LAVROV, V. I.
Changes in some rheological parameters of blood in experiments simulating weightlessness
07 p1044 N84-16774
LAW, C. K.
Theoretical studies on heterogeneous combustion
[DE84-003178] 07 p0971 N84-16289
Lean limit phenomena 11 p1612 N84-20552
Organic azides as jet fuel additives: Synthesis of azides and micro-explosion characteristics of droplets
20 p3144 N84-29963
LAW, K.
Molecular supersonic jet studies of Aniline solvation by helium and methane
[AD-A132879] 05 p0650 N84-14276
Molecular jet study of aniline-helium van der Waals molecules and aniline radiationless relaxation in the 1-B sub 2 excited electronic state
[AD-A132726] 05 p0744 N84-14888
Supersonic molecular jet studies of Toluene-Helium and Toluene-Methane clusters
[AD-A141379] 19 p2988 N84-28931
LAW, R. D.
Replacement of PBNA in HB and HC polymers used in SRM propellant and liner
[NASA-CR-170936] 03 p0355 N84-12311
LAW, S. L.
Updated process flowsheets for manganese nodule processing
[PB83-226340] 01 p0047 N84-10303
LAWANDY, N. M.
A saturable interferometer theory of absorptive optical bistability 14 p2238 N84-24435

LAWERENZ, M.
Calculation of three dimensional viscous flows in annular cascades using parabolized Navier-Stokes equations
19 p3023 N84-29168
LAWFORD, J. A.
Calibration of air-data systems and flow direction sensors. AGARD Flight Test Techniques Series, volume 1
[AGARD-AG-300-VOL-1] 06 p0848 N84-15530
LAWING, P. L.
Support interference of wind tunnel models: A selective annotated bibliography
[NASA-TM-81909-SUPPL] 17 p2610 N84-26708
LAWLER, D. J.
Assessment of temporal dynamics of selected terrestrial carbon pools
[DE84-009650] 19 p3059 N84-29410
LAWLER, E. E., III
Performance appraisal revisited
[AD-A132841] 06 p0932 N84-16059
The design of effective reward systems
[AD-A132859] 06 p0934 N84-16067
Motivation and performance appraisal behavior
[AD-A134311] 06 p1203 N84-17842
LAWLESS, E. W.
Appraisal of scientific resources for emergency management
[AD-A133265] 06 p0933 N84-16062
LAWLESS, W. N.
Enthalpy - improved dielectric insulation for superconducting wires
[AD-A131657] 03 p0356 N84-12316
LAWLEY, A.
Microstructure and properties of P/M tool steels
[AD-A130980] 02 p0194 N84-11259
Cold sintering: A new powder consolidation process
[AD-A131687] 03 p0353 N84-12292
A fundamental study of P/M processed elevated temperature aluminum alloys
[AD-A136154] 09 p1284 N84-18387
A fundamental study of P/M processed elevated temperature aluminum alloys
[AD-A141780] 19 p2994 N84-28974
LAWN, B. R.
Effect of contact damage on the strength of ceramic materials
[AD-A133746] 05 p0658 N84-14327
Micro and macro mechanics of fracture in ceramics
[AD-A137290] 10 p1465 N84-19572
Stress corrosion of ceramic materials
[AD-A136729] 10 p1467 N84-19581
LAWRENCE, A.
A study of the interaction of millimeter wave fields with biological systems
[AD-A144150] 24 p3935 N84-34910
LAWRENCE, A. W.
Micro-Optic gyro technology
[AD-A130890] 02 p0223 N84-11461
LAWRENCE, C.
Nonlinear displacement analysis of advanced propeller structures using NASTRAN
[NASA-TM-83737] 21 p3419 N84-31683
LAWRENCE, D. O.
Recent developments in mini-unit cable
11 p1725 N84-21255
LAWRENCE, G. M.
SIR-A aids regional geology: Comparisons of SIR-A imagery with SLAR and LANDSAT over Guyana, Venezuela, Nicaragua and Mali
07 p0988 N84-16401
LAWRENCE, J. D.
User's manual for the DOE Technical Information Center Integrated Record Input System (IRIS)
[DE83-013074] 09 p1405 N84-19178
Integrated Record Input System (IRIS) for the DOE/Technical Information Center
[DE84-008494] 18 p2945 N84-28675
LAWRENCE, J. H., JR.
Windshield weight reduction through the use of high strength glass and polyurethane interlayers
[AD-P003186] 17 p2590 N84-26599
LAWRENCE, J. K.
Two-dimensional photometry of active regions
17 p2778 N84-27640
LAWRENCE, J. L.
Application of the implicit MacCormack scheme to the parabolized Navier-Stokes equations
[NASA-CR-166579] 19 p3020 N84-29148
LAWRENCE, J. S.
Investigation of effects contributing to dynamic stall using a momentum-integral method
[AD-A136897] 10 p1421 N84-19291
LAWRENCE, M.
Assessment of institutional barriers to the use of natural gas fuel in automotive vehicle fleets
[NASA-CR-168183] 05 p0699 N84-14587
LAWRENCE, P. F.
An AC impedance study of steel in concrete
[AERE-R-11132] 18 p2835 N84-27997
LAWRENCE, R. S.
Effects of atmospheric turbulence on optical propagation
15 p2325 N84-24961
LAWRIE, L. K.
Evaluation of microcomputer energy analysis programs
[AD-A144684] 24 p3942 N84-34959
LAWS, N.
Stiffness changes in unidirectional composites caused by crack systems
[CA-8311] 06 p0798 N84-15198
LAWSON, A. C.
Flate-plate photovoltaic power systems handbook for Federal agencies
[NASA-CR-173901] 22 p3617 N84-32921
Stand-alone flat-plate photovoltaic power systems: System sizing and life-cycle costing methodology for Federal agencies
[NASA-CR-173903] 22 p3618 N84-32922
LAWSON, A. G.
Shell tile thermal protection system
[NASA-CASE-LAR-12862-1] 18 p2817 N84-27886
Aircraft landing dynamics facility carriage weld test program
[NASA-TM-85802] 22 p3603 N84-32827
LAWSON, D. D.
Supercritical multicomponent solvent coal extraction
[NASA-CASE-NPO-15767-1] 07 p0965 N84-16255
LAWSON, J. S., JR.
Doing C2 (Command Control) experiments using war games
[AD-P002875] 13 p1977 N84-22836
LAWSON, L. M.
Acoustic ray-path fluctuations induced by El Nino
[PB84-167709] 16 p2534 N84-26270
LAWSON, M. O.
Conceptual design of an electrofluid dynamic wind energy system
[DE84-004512] 21 p3435 N84-31795
LAWSON, R. P.
Cloud physics investigations by the University of Wyoming in HIPLEX 1977-1982
[PB84-106756] 08 p1192 N84-17770
LAWTON, E. A.
MMH-nitrate and plume deposits from NTO/MMH engines
13 p1941 N84-22620
LAX, P. D.
Problems solved and unsolved concerning linear and nonlinear partial differential equations
[DE84-004990] 09 p1379 N84-19008
LAXMANAN, V.
Some fundamental aspects of solidification in a supercooled melt
[NASA-TM-83714] 17 p2623 N84-26787
The potential for bulk undercooling as an industrial process
24 p3882 N84-34592
LAXPATI, S. R.
Aperture efficiency considerations in the convolution synthesis of symmetrical hexagonal arrays
[AD-A133367] 06 p0824 N84-15369
A comparative study of linear array synthesis technique using a personal computer
[AD-A141444] 19 p3076 N84-29515
A comparative study of linear array synthesis technique using a personal computer
[AD-P003500] 21 p3383 N84-31468
LAY, H. G.
Forest generalization by digital raster data processing
20 p3226 N84-30501
LAY, P.
An AC impedance study of steel in concrete
[AERE-R-11132] 18 p2835 N84-27997
LAY, P. A.
Redox thermodynamics of surface-bound reactants. Illustrative behavior of Cobalt(3)/(2) macrobicyclic cage complexes
[AD-A139058] 13 p1957 N84-22723
Surface-Enhanced Raman Scattering for redox-active adsorbates: Pentaammineosmium (3)/(2) and Pentaammineruthenium (2) containing nitrogen heterocycle ligands
[AD-A142418] 20 p3148 N84-29987
LAYBE, P.
Determination of cloud parameters for NEROS 2 from digital satellite data
[PB84-162601] 14 p2182 N84-24075
LAYCOCK, J.
Eye spectral sensitivity and its variation with luminance level
[RAE-TR-83043] 09 p1361 N84-18892
The perception of saturation and hue on colour cathode ray tubes
[AD-A143645] 23 p3811 N84-34167
LAYE-GRANIER, A.
Role of excitation frequency in discharges created by surface waves
[LP-205] 16 p2558 N84-26411
LAYFIELD, A.
The use of TEA and multiatmosphere CO2 lasers in active remote sensing
24 p3907 N84-34749
LAYNO, J. H.
A circuit design for multiplexed digital correlation at 60 MHz
[AD-A139117] 14 p2142 N84-23842
LAYTON, G. P.
A review of recent developments in flight test techniques at the Ames Research Center, Dryden Flight Research Facility
[NASA-TM-86039] 11 p1606 N84-20515
LAZARENKO, P. V.
Criteria of human cold adaptation
18 p2897 N84-28381
LAZAREV, V. M.
Application of recurrent formulas for solving main geodetic problems
18 p2861 N84-28166
LAZAROV, K.
Socialist countries cooperate in computer R and D
24 p3961 N84-35081
LAZARUS, A. J.
The radial evolution of the solar wind, 1-10 AU
03 p0472 N84-13106
Interplanetary flow systems associated with cosmic ray modulation in 1977 - 1980
[NASA-TM-85120] 08 p1246 N84-18149
LAZERENKO, N. A.
Influence of microwave electromagnetic radiation and certain hormones on osmotic resistance of mouse erythrocytes
20 p3259 N84-30682
LAZKO, Y. Y.
Peridotites of the Khizen Fault (Southeastern Pacific Ocean)
18 p2857 N84-28145
LEACH, D. D.
Cross sections relevant to gamma-ray astronomy: Alpha-particle-induced reactions
[DE83-015533] 03 p0461 N84-13038
LEACH, G. E.
NASA scatterometer research data processing system: Requirements and design
23 p3781 N84-33979
LEACH, J.
The interpretation of hard X-ray polarization measurements in solar flares
[NASA-CR-172790] 08 p1246 N84-18142
The impulsive hard X-rays from solar flares
[NASA-CR-175431] 11 p1759 N84-21480
LEACH, K.
Energy efficient engine: Turbine intermediate case and low-pressure turbine component test hardware detailed design report
[NASA-CR-167973] 19 p2965 N84-28789
LEACH, L. M.
Impact of IPAD on CAD/CAM database university research
12 p1891 N84-22318
LEADBETTER, M. R.
Research in stochastic processes
[AD-A136222] 09 p1381 N84-19018
Research in stochastic processes
[AD-A137736] 11 p1717 N84-21202
Indicators of hazard for polycyclic organic matter
[PB84-167493] 15 p2288 N84-24730
LEADER, J. C.
Laser radar analyses
[AD-A133295] 06 p0850 N84-15540
LEADON, R.
Literature review of spacecraft charging
[AD-A140543] 16 p2458 N84-25761
LEAF, G. K.
Fully-coupled solution of pressure-linked fluid flow equations
[DE83-017989] 04 p0536 N84-13527
Efficient finite-difference calculation procedure for multi-dimensional fluid flows
[DE84-011710] 21 p3401 N84-31577
LEAHY, K. S.
Techniques for assessment of ascent aerodynamic characteristics of the space shuttle launch system
01 p0019 N84-10121
LEAKE, C. R.
Numerical validation of Tukey's criterion for clinical trials and sequential testing
[AD-P003853] 24 p3940 N84-34939
LEAN, J. L.
Temporal variations of solar UV spectral irradiance caused by solar rotation and active region evolution
17 p2780 N84-27650
Modelling solar spectral irradiance variations at ultraviolet wavelengths
17 p2780 N84-27651
The NOAA-ERL-ARL solar UV radiation and climate research project program description
[PB84-183292] 20 p3319 N84-31070

LEAP, K. J.
Profs' Doppler radar data processing system. Part 1: Design and implementation with application to NEXRAD algorithms
[PB84-165224] 14 p2182 N84-24073

LEARY, J. M.
Characteristics of various types of ablative materials with associated naval applications
[AD-A133882] 05 p0645 N84-14243

LEATHERMAN, S. P.
Historical and projected shoreline changes: Ocean City and north Assateague Island, Maryland
[PB84-190206] 22 p3628 N84-32987

LEATHERWOOD, J. D.
Ride quality meter
[NASA-CASE-LAR-12882-1] 03 p0375 N84-12445
Evaluation of ride quality prediction methods for helicopter interior noise and vibration environments
[NASA-TP-2261] 10 p1549 N84-20155
A user-oriented and computerized model for estimating vehicle ride quality
[NASA-TP-2299] 12 p1866 N84-22162
Combined effect of noise and vibration on passenger acceptance
[NASA-TM-86284] 23 p3810 N84-34161

LEAV, I.
Insulin and cortisol improve heat tolerance in isolated perfused rat liver
[AD-A133382] 07 p1042 N84-16758

LEAVESLEY, P. J.
Analytical model of strength loss in filament wound spherical vessels
[DE84-010213] 19 p2986 N84-28923

LEAVITT, J.
Automatic generation of 3-D envelopes
12 p1872 N84-22197

LEAVITT, L. D.
Static internal performance including thrust vectoring and reversing of two-dimensional convergent-divergent nozzles
[NASA-TP-2253] 09 p1251 N84-18165

LEAVITT, R. P.
Topically classified bibliography on shapes of falling drops, drops in electric fields and related topics
[AD-A131134] 03 p0371 N84-12417
Crystal-field splittings of the Hund ground states of ndN ions in S4 symmetry: Theory and application to the Ga-3+ Gd-3Sc-2Ga-3O-12
[AD-A140623] 17 p2768 N84-27574
Rare-earth ion-host lattice interactions: 15. Analysis of the spectra of Nd3+ in Gd3Sc2Ga3O12
[AD-A142555] 20 p3309 N84-31015

LEAVY, W. P.
Closing the gap between aircraft and simulator training with Limited Field-Of-View (LFOV) visual systems
[AD-P003448] 21 p3508 N84-32225

LEBALLEUR, J. C.
Progress in computation of viscous inviscid interaction
07 p0954 N84-16189
Computation of viscous flows over airfoils, including separation, with a coupling approach
[NASA-TM-77079] 14 p2101 N84-23607

LEBEAU, S. E.
Solidification of aluminum and aluminum alloys at high levels of undercooling 03 p0351 N84-12286

LEBED, Y. K.
New trends in standardization of electromagnetic microwave radiation 07 p1044 N84-16767

LEBEDA, C. F.
Evolution of structure in the PLACES barium clouds
[DE84-010996] 20 p3242 N84-30583

LEBEDENKO, A. N.
Multifrequency emission from submillimeter lasers
21 p3487 N84-32096

LEBEDEV, A. A.
Strength of hard alloy elements of high pressure apparatus for synthesis of superhard materials
12 p1785 N84-21647

LEBEDEV, I. V.
Correlational estimation of parameters of solid state microwave devices 22 p3570 N84-32609

LEBEDEV, V. I.
Ultrasound distribution and bone calcium content in experimental animals submitted to hypokinesia and weightlessness 20 p3254 N84-30652

LEBER, R. L.
Advanced high-field coil designs: 20 Tesla
[DE83-017368] 03 p0368 N84-12397
Analytical studies of advanced high-field designs: 20-Tesla large-bore superconducting magnets
[DE83-017591] 04 p0594 N84-13918
Ultra-high-field superconducting magnets
[DE84-003913] 08 p1226 N84-18012

LEBERL, F.
Stereo imaging with spaceborne radars
07 p0988 N84-16400
Implement of the computer program-system MOSS (Map overlay and statistical system) on a VAX-11 series computer under VMS
[AD-A137104] 10 p1525 N84-19992
Evaluation of radargrammetric stereo
[AD-A139565] 14 p2141 N84-23835
Experiments to correct a digital map data base using scene analysis
[AD-A139447] 14 p2248 N84-24499
Differential rectification of SLR-images using map-derived and radar-generated digital elevation models
[AD-A141828] 19 p3006 N84-29054

LEBERT, R.
Dynamics of microstructures 10 p1583 N84-20376

LEBLANC, A.
A study of stress-free living bone and its application to space flight
[NASA-CR-171786] 16 p2535 N84-26275
High resolution bone mineral densitometry with a gamma camera
[NASA-TM-85386] 18 p2899 N84-28391

LEBLANC, R.
Similar velocity profiles and integral quantities of a boundary layer on a rotating cylinder
[VKI-NT-148] 08 p1160 N84-17553

LEBLANC, R. J.
Software support for fully Distributed/Loosely coupled processing systems, volume 1
[AD-A141500] 19 p3076 N84-29518
Software support for fully distributed/loosely coupled processing systems. Volume 2: Appendix-selected papers
[AD-A141501] 19 p3076 N84-29519

LEBLOND, P. H.
Variations in surface current off the coasts of Canada as inferred from infrared satellite imagery
17 p2719 N84-27305

LEBOEUF, F.
Experimental and theoretical studies of parietal viscous boundaries in a single stage transonic compressor
07 p0957 N84-16206
Annulus endwall boundary layer theory
19 p3023 N84-29167

LEBOEUF, J. N.
Particle simulation of drift waves in a sheared magnetic field
[DE84-004026] 09 p1393 N84-19093
Computer modeling of fast collisionless reconnection
[DE84-006714] 14 p2229 N84-24367
Study of generalized toroidal cusp configurations
[DE84-006662] 14 p2229 N84-24369

LEBOEUF, R.
Formation and remodeling of the early wound matrix
[AD-A134576] 08 p1201 N84-17833

LEBOITEUX, S.
Stratospheric concentration of nitric acid, ozone and sulphurous carbonyl: Measurement of nitric acid absorption in the Q branch of the v4 band as a function of temperature
[AD-B071596] 17 p2724 N84-27336

LEBOUAR, P.
Detailed system studies on rendezvous and docking. Part 1: Executive summary
[ESA-CR(P)-1894-PT-1] 23 p3697 N84-33428

LEBOUTET, A.
Manufacture cables with low losses
11 p1725 N84-21256

LEBOW, P. S.
Computed survey spectra of 2-5 micron atmospheric absorption
[AD-A132526] 04 p0563 N84-13708

LEBOWITZ, M. D.
Respiratory effects on population from low-level exposures to ozone
[PB83-246132] 04 p0573 N84-13774

LEBRAS, G.
Kinetic studies of atmospheric reactions of OH radicals 13 p2012 N84-23050
Kinetics and products of the reaction OH + HNO3
13 p2012 N84-23051

LEBRETON, J. P.
Observation of waves induced by an artificial ion beam in the ionosphere 05 p0635 N84-14176
The experiment Phenomena Induced by Charged Particle Beams (PICPAB) on board Spacelab 1
05 p0641 N84-14220
Active control of the potential of ISEE-1 by an electron gun 08 p1119 N84-17278

LEBRON, J. E.
System safety study of minimum TCAS II (Traffic Alert and Collision Avoidance System)
[AD-A138674] 13 p1929 N84-22548

LEBRUN, M.
An operating system and memory switch for the S-1 computer
[DE84-013094] 20 p3267 N84-30731

LEBRUN, P.
High energy electromagnetic shower position measurement by a fine grained scintillation hodoscope
06 p0912 N84-15928
A measurement of the response of an SCG1-C scintillation glass shower detector to 2-17.5 GeV positrons 06 p0913 N84-15930

LEBRUN, W.
ESATAN: A thermal network analysis computer program 10 p1443 N84-19426

LEBSOCK, K.
Excess science accommodation capabilities and excess performance capabilities assessment for Mars Geoscience and Climatology Orbiter: Extended study
[NASA-CR-173765] 19 p2978 N84-28882

LECA, M.
Determining the homomorphis of polar substances by gas-liquid chromatography
[BLL-T6164/BG/LRS-(9022.048)]
01 p0036 N84-10229

LECCE, L.
Aerodynamic instability of cable-stayed bridges: Theoretical experimental study of stall flutter
18 p2789 N84-27700
Preliminary experimental and theoretical results on cantilever vibration absorbers applied for aircraft cabin vibration
[SPER-8390] 18 p2794 N84-27730
Theoretical and experimental results of dynamic behavior of periodically stiffened cylindrical shell
18 p2794 N84-27731
Experimental modal analysis of a partial full-scale fuselage of turboprop aircraft 18 p2794 N84-27732
On the stick-free longitudinal dynamic stability of a general aviation aircraft equipped with an all-movable horizontal tail 18 p2797 N84-27748

LECHI, G. M.
Fast automatic reconnaissance in land observations images by means of analog and/or digital images
23 p3768 N84-33885
Interactive Automatic System (lasp): An expert system to help photointerpretation 23 p3779 N84-33961

LECHLE, M.
Report on measurements of terrestrial radiation in the Schwandorf area and the radiological load of the river Naab
[GSF-A-6/83] 16 p2520 N84-26180

LECHT, M.
Investigation of the behavior of axial compressor stages with steady state inlet distortions
[DFVLR-FB-83-39] 15 p2262 N84-24590

LECIEJEWSKI, D. J.
An experimental investigation of the effect of boundary layer refraction on the noise from a high-speed propeller
[NASA-TM-83764] 23 p3821 N84-34230

LECLAIRE, R. J.
High-field Tokamaks with DD-DT operation and tritium-breeding requirements
[DE83-013092] 02 p0296 N84-11939

LECOMPTE, J. L.
SCPP (Sierra Cooperative Pilot Project) forecasting support, volume 1
[PB84-107911] 08 p1194 N84-17782

LECOMTE, P. B. A.
Cohomology of the 3-differentiable of the Poisson algebra of a symplectic manifold
13 p2032 N84-23175

LEDERER, P. S.
Performance evaluation of sensors
[AD-P002675] 11 p1657 N84-20812

LEDERICH, R. J.
Optimum microstructures for SPF (superplastic forming) using hydrovac
[AD-A130944] 01 p0044 N84-10280
Influence of rare-earth additions on properties of titanium alloys. Effects of yttrium and erbium additives on rapid solidification processing, superplastic forming, welding, and strengthening of titanium alloys
[AD-A133669] 05 p0654 N84-14299

LEDFORD, A. E.
Assessing the credibility of the calorific value of municipal solid waste
[PB84-175470] 16 p2474 N84-25861

LEDLEY, B. G.
Probe measurement of DC electric fields
08 p1116 N84-17255

LEDOUX, C. A.
The fast Fourier transform as a signal processing technique
[AD-A131011] 01 p0133 N84-10872

LEDOVSKOY, S. M.
Thirteenth Gagarin Conference
12 p1865 N84-22151

LEE, A.
Organic azides as jet fuel additives: Synthesis of azides and micro-explosion characteristics of droplets
20 p3144 N84-29963

LEE, B. H. K.
Aeroelastic response of an aircraft wing to random loads
[AD-A130476] 01 p0004 N84-10028
Unsteady pressure and force measurements associated with transonic buffeting of a two-dimensional supercritical airfoil
[AD-A133139] 06 p0844 N84-15503

LEE, B. S.
Phased-array-fed antenna configuration study. Volume 1: Technology assessment
[NASA-CR-168231] 07 p0991 N84-16423
Phased-array-fed antenna configuration study, volume 2
[NASA-CR-168232] 07 p0991 N84-16424

LEE, C. A.
Determination of ionization rates in the principal crystallographic directions in silicon
[AD-A133513] 06 p0923 N84-15999

LEE, C. C.
Numerical simulation of strongly non-isothermal compression molding flows 15 p2306 N84-24834

LEE, C. E.
Numerical determination of the effects of boundary conditions on the instability of composite panels with cutouts
[AD-A136772] 10 p1517 N84-19931

LEE, C. P.
LSI/VLSI (Large Scale Integration/Very Large Scale Integration) ion implanted GaAs (Gallium Arsenide) IC processing
[AD-A139676] 15 p2328 N84-24979
LSI/VLSI (Large Scale Integration/Very Large Scale Integration) ion implanted GaAs (Gallium Arsenide) IC processing. Appendix A: Feasibility analysis of Gallium-Arsenide mask programmable functions and logic arrays for high performance communications systems
[AD-A139677] 15 p2328 N84-24980
LSI/VLSI (Large Scale Integration/Very Large Scale Integration) ion implanted GaAs (Gallium Arsenide) IC processing. Appendix B: Two-dimensional modeling of GaAs MESFET devices for integrated high-speed logic circuits
[AD-A139678] 15 p2328 N84-24981

LEE, C. S.
Deformation of bimetallic bicrystals of Alpha-Ti/Beta-Ti-13Mn
[AD-A140263] 16 p2469 N84-25822
Wave attenuation and mode dispersion in a waveguide coated with lossy dielectric material
[NASA-CR-173820] 20 p3172 N84-30145
Origin and evolution of the West Philippine Basin
21 p3439 N84-31820

LEE, C. T.
Large scale software development project on the design of a computer network system 24 p3959 N84-35065

LEE, C. Y. C.
Mechanical properties of bis-phenol-A polysulfone and acetylene terminated bis-phenol-A blend
[AD-A131277] 02 p0200 N84-11303

LEE, D.
User's guide for SBUV/TOMS ozone derivative products
[NASA-RP-1116] 07 p1036 N84-16720
Stable explicit schemes for equations of the Schroedinger type
[AD-A140779] 17 p2758 N84-27513
A stable explicit scheme for the ocean acoustic wave equation
[AD-A141800] 19 p3062 N84-29427

LEE, D. C. L.
Forest inventory using multistage sampling with probability proportional to size
[E84-10144] 16 p2507 N84-26092
Forestry inventory based on multistage sampling with probability proportional to size
[INPE-2869-RPE/441] 23 p3763 N84-33855

LEE, D. H. T.
Semiconductor surface studies
22 p3681 N84-33338

LEE, D. J.
Studies in a transonic rotor aerodynamics and noise facility
[NASA-CR-166588] 22 p3538 N84-32399

LEE, D. O.
Examination of frontal development during a dry forward combustion
[DE84-006304] 15 p2288 N84-24726

LEE, E.
Time resolved measurement and analysis of the response of confined explosives to heat, impact and penetration
[DE84-002781] 07 p0981 N84-16358
Equations of state of PBX-9404, LX-07, and RX-26-AF detonation products at pressures above detonation pressure
[DE84-002465] 09 p1290 N84-18424
New developments in cylinder testing
[DE84-002782] 15 p2337 N84-25033

LEE, E. A.
LCAP2 (Linear Controls Analysis Program). Volume 2: Interactive LCAP2 user's guide
[AD-A141145] 18 p2924 N84-28542
LCAP2 (Linear Controls Analysis Program). Volume 3: Source code description
[AD-A141386] 19 p3075 N84-29512
LCAP2 (Linear Control Analysis Program). Volume 1: Batch LCAP2 user's guide
[AD-A141486] 19 p3076 N84-29517

LEE, E. D.
Transient photochemistry of neutral red
[AD-A131564] 18 p2810 N84-27839

LEE, E. H.
Radiation damage and phase instability in irradiated stainless steel
[DE83-017190] 03 p0354 N84-12303
Effect of phosphorus on the swelling and precipitation behavior of austenitic stainless steels during irradiation
[DE84-000412] 04 p0499 N84-13275
Effects of pulsed dual-ion irradiation on phase transformations and microstructure in Ti-modified austenitic alloy
[DE84-001985] 06 p0807 N84-15257
Effects of pulsed and/or dual ion irradiation on microstructural evolution in a Ti and Si modified Austenitic alloy
[DE84-003411] 08 p1134 N84-17374
The analysis of elastic-plastic deformation and stress at finite strain and their evaluation
[AD-A137931] 11 p1669 N84-20887
Ion bombardment damage in a modified Fe-9Cr-1Mo steel
[DE84-014288] 22 p3557 N84-32522

LEE, E. K. C.
Intermolecular energy-transfer processes
[DE84-000334] 04 p0601 N84-13971
International Conference on Radiationless Transitions
[AD-A141407] 19 p3100 N84-29695

LEE, E. K. L.
Novel composite membranes
[PB83-243170] 03 p0351 N84-12284

LEE, E. P.
Spot heating calculation for a heavy ion driven high temperature experiment
[DE84-013879] 22 p3653 N84-33159

LEE, E. U.
Corrosion and load transfer effects on fatigue of mechanically fastened joints. Fatigue of zero load transfer specimen
[AD-A139042] 13 p2001 N84-22985

LEE, F. C.
Input filter compensation for switching regulators
[NASA-CR-173247] 07 p0996 N84-16459
Input filter compensation for switching regulators
[NASA-CR-173557] 15 p2327 N84-24975

LEE, F. S.
Signal processing in high data rate environments. Design tradeoffs in the exploitation of parallel architectures and fast system clock rates. An overview
09 p1401 N84-19151

LEE, G.
Application of holography to flow visualization
[NASA-TM-84325] 07 p1007 N84-16530
Magnetically enhanced hydrogen gas dissociator: A progress report 16 p2479 N84-25892

LEE, G. E.
Proceedings of the 9th Symposium on Psychology in the Department of Defense
[AD-A141043] 18 p2902 N84-28403

LEE, G. H., II
Middle distillate fuel stability characteristics: A review
[AD-A132156] 04 p0509 N84-13337

LEE, H.
Space-time evolution of the nonlinear 2-stream instability
[DE84-001336] 04 p0599 N84-13950
Filamentation instability of ion acoustic waves driven by a scattered relativistic beam
[DE84-001323] 04 p0599 N84-13956
Simulations of the effects of mobile ions on the relativistic beam-plasma instability for intense beams
[DE84-000369] 04 p0607 N84-14003
Computational and experimental study of trailing vortices 06 p0779 N84-15103

LEE, H. L.
The role of boundary layer capacitance at blocking electrodes in the interpretation of dielectric cure data in adhesives
[AD-A142188] 19 p3016 N84-29121

LEE, H. P.
Development of the L-1011 four-dimensional flight management system
[NASA-CR-3700] 09 p1254 N84-18183

LEE, H. Q.
Time controlled descent guidance algorithm for simulation of advanced ATC systems
[NASA-TM-84373] 01 p0007 N84-10043
Mixing 4D-equipped and unequipped aircraft in the terminal area 11 p1616 N84-20577

LEE, H. W.
Emission of short-wavelength photons from ion-surface charge exchange
[AD-A133183] 06 p0914 N84-15942

LEE, H. Y.
Periodic window, period doubling, and chaos in a liquid crystal bistable optical device 14 p2238 N84-24432

LEE, J.
Impact of monoblock design and battery packaging on temperature excursion of nickel/iron batteries
[DE84-006444] 12 p1813 N84-21821
The use of reciprocal polar co-ordinates in passive tracking
[AD-P002906] 13 p1981 N84-22860

LEE, J. C.
A compact Q-K/band dual frequency feed horn
[AD-A130258] 01 p0063 N84-10416
Likelihood ratio tests on covariance matrices and mean vectors of complex multivariate normal populations and their applications in time series
[AD-A131523] 01 p0133 N84-10874
Elastic quarter plane and quarter space boundary value problems 11 p1667 N84-20876
Compact broadband rectangular to coaxial waveguide junction
[AD-D011091] 22 p3587 N84-32716

LEE, J. D.
Advanced high-field coil designs: 20 Tesla
[DE83-017368] 03 p0368 N84-12397
Analytical studies of advanced high-field designs: 20-Tesla large-bore superconducting magnets
[DE83-017591] 04 p0594 N84-13918
Documentation of ice shapes on the main rotor of a UH-1H helicopter in hover
[NASA-CR-166332] 08 p1098 N84-17139
Ultra-high-field superconducting magnets
[DE84-003913] 08 p1226 N84-18012

LEE, J. F.
Diagnosing a PDS microdensitometer
18 p2839 N84-28021
Improvements to the Photometric response and positional accuracy of the Yale PDS 2020G microdensitometer 18 p2840 N84-28033

LEE, J. H.
Solar pumped laser
[NASA-CASE-LAR-12870-1] 07 p1009 N84-16542
Threshold kinetics of a solar-simulator-pumped iodine laser
[NASA-TP-2241] 08 p1163 N84-17575
Applications of operations research and management information system concepts to management of large software projects 11 p1718 N84-21204
Influence of diluents and inhibitors on detonations
[DE84-006300] 22 p3548 N84-32463

LEE, J. H. S.
Hydrogen-air detonations
[DE83-009289] 03 p0350 N84-12278

LEE, J. J.
A three-dimensional ray method and its application to the study of wave propagation in crustal structure with curved layers 21 p3439 N84-31821

LEE, J. K.
Magnetic fluctuations in high-beta sub p Tokamak plasmas
[DE83-015872] 05 p0751 N84-14929
Tabular methods for the design of CCD (Charge-Coupled Devices) multiple-valued circuits
[AD-P002347] 14 p2192 N84-24138
The 3-D MHD stability of high-beta free-boundary Tokamak plasmas with finite edge-pressure-gradient and limiter stabilization
[DE84-009188] 20 p3303 N84-30976
Microstructural development and control in liquid phase sintering; processing, structures and properties of cold worked metal matrix composites
[AD-A143188] 22 p3555 N84-32509

LEE, J. M.
Vapor-liquid phase separator studies
[NASA-CR-166545] 08 p1156 N84-17527

Superfluid helium 2 liquid-vapor phase separation: Technology assessment
[NASA-TM-85966] 22 p3593 N84-32752

LEE, J. N.
A compact optical pulse compressor with computer-generated holographic masks for radar applications
[AD-A132152] 04 p0522 N84-13430
Integrated optical signal processing with magnetostatic waves 12 p1907 N84-22420
Non-linear transient response of flat plate to air shock wave
[AD-A140491] 16 p2503 N84-26063
Optical signal processing for surveillance
[AD-A140957] 18 p2932 N84-28591

LEE, J. R.
Direct measurement of the energy spectrum of an intense proton beam
[DE84-000457] 04 p0597 N84-13939
Grad-B drift transport of high current electron beams
[DE84-000115] 04 p0602 N84-13977

LEE, J. S.
Plastic flows of tubes and blocks 06 p0833 N84-15421

LEE, J. T.
Investigation of the detectability and lifetime of gust fronts and other weather hazards to aircraft
[AD-A141552] 19 p3058 N84-29404

LEE, K.
Investigation of laminar shocks
[DE84-010074] 20 p3242 N84-30582

LEE, K. D.
BGRID: A block-structured grid generation code for wing sections
[NASA-CR-166317] 23 p3814 N84-34187

LEE, K. H.
The 2-1/2-dimensional numerical solution for the electromagnetic scattering using a hybrid technique
[DE83-014860] 02 p0210 N84-11374
Resistivity and strain behavior during transformation cycling in nickel-titanium
[DE84-006640] 14 p2129 N84-23762

LEE, K. J.
Improvements to high speed rotating prism cameras including on board timing and event pulse generators
[MRL-TN-476] 08 p1161 N84-17557

LEE, K. P.
Accurate evaluation of homogenous and nonhomogeneous gas emissivities
[NASA-CR-173307] 09 p1277 N84-18340

LEE, K. T.
Theoretical aspects of laser-induced periodic surface structure formation
[AD-A134875] 08 p1164 N84-17581
The role of phonons in the excitation and relaxation of adspecies
[AD-A137066] 10 p1455 N84-19504

LEE, L. M.
Carbon piezoresistive stress gauge
[DE83-016505] 02 p0224 N84-11470

LEE, L. S.
Acoustic data and uncertainty in geotechnical site characterization offshore
[PB84-100908] 08 p1196 N84-17801

LEE, M.
Irradiation response in titanium-modified austenitic stainless steels prepared by rapid-solidification processing. Part 1: Microstructural response to neutron irradiation
[DE84-001298] 04 p0501 N84-13283
Miniaturized disk bend tests of neutron-irradiated path A type alloys
[DE84-001277] 04 p0549 N84-13618
MIT miniaturized disk bend test
[DE84-001275] 05 p0694 N84-14554

LEE, M. B.
Chemical reaction dynamics at surfaces 22 p3681 N84-33340

LEE, M. C.
Ionospheric irregularities and geomagnetic field fluctuations due to ionospheric heating 05 p0636 N84-14184
Contactless pellet fabrication
[NASA-CASE-NPO-15592-1] 07 p1069 N84-16940
Vibrating-chamber levitation systems
[NASA-CASE-NPO-16142-1] 07 p1070 N84-16948

LEE, M. J.
Emittance calculations for the Stanford linear collider injector
[DE83-011851] 02 p0290 N84-11904
Turbulent mixing and combustion of multi-phase reacting flows in ramjet and ducted rocket environment
[AD-A133802] 05 p0632 N84-14152
Detailed flow measurements in fuel-rich, particle-laden plumes 13 p1952 N84-22690

LEE, M. L.
Separation as asphaltenes using high-resolution supercritical-fluid chromatography 01 p0038 N84-10240
Capillary supercritical fluid chromatography of polycyclic aromatic compounds
[DE84-002939] 07 p0972 N84-16302
Supercritical fluid chromatography/supersonic jet spectroscopy
[DE84-007364] 15 p2287 N84-24724
Supercritical and chromotography/supersonic jet spectroscopy
[DE84-012124] 21 p3360 N84-31312

LEE, O. W. K.
On the stability of flight vehicles in the low Reynolds number non-linear regime
[AD-A138379] 12 p1773 N84-21559
On the stability of flight vehicles in the low Reynolds number non-linear regime
[AD-A140008] 15 p2258 N84-24561

LEE, P.
Experiments to study the feasibility of making an X-ray laser at the Novette laser facility
[DE83-015615] 03 p0380 N84-12476

LEE, P. H. Y.
Photoemissive materials for 0.35 Micron laser fiducials in X-ray streak cameras
[DE84-008348] 20 p3194 N84-30283
A convective mechanism for inhibition of heat conduction in laser produced plasmas
[DE84-011336] 20 p3194 N84-30289

LEE, P. J.
Transfer function bounds for partial-unit-memory convolutional codes based on reduced state diagram 10 p1474 N84-19628
New short constraint length, rate 1/N convolutional codes which minimize required E sub b/N sub o for given bit error rate 16 p2479 N84-25895

LEE, P. K.
Acidic deposition and the corrosion and deterioration of materials in the atmosphere: A bibliography, 1880 - 1982
[PB83-236091] 01 p0047 N84-10302

LEE, P. L.
Quantum transport in low dimensional disordered systems 22 p3682 N84-33347

LEE, R.
Soft X-ray laser experiments at Norvette Laser Facility
[DE84-012594] 21 p3410 N84-31627

LEE, R. D.
Optical and human performance evaluation of HUD (Head-Up Display) systems design
[AD-A140601] 17 p2588 N84-26587
Overview of HUD (Head-Up Display) optical designs
[AD-P003157] 17 p2588 N84-26588

LEE, R. E.
Particle sizing in a fuel rich airbreathing engine combustor 13 p1943 N84-22634

LEE, R. L.
Flow-through boundary conditions for time-dependent, buoyancy-influenced flow simulations using low order finite elements
[DE83-010256] 02 p0218 N84-11430
Further studies on equal-order interpolation for Navier-Stokes
[DE84-000916] 04 p0534 N84-13512

LEE, R. W.
Line intensities for diagnosing laser-produced plasmas
[DE84-009857] 19 p3106 N84-29738
Research study: Organization and development of organized convection in the boundary layer
[NASA-CR-171115] 21 p3398 N84-31552
Morphology and development of organized convection in the boundary layer 24 p3930 N84-34880

LEE, S. C.
A structured design of multiple-valued LSI/VLSI with built-in testing capability
[AD-P002328] 14 p2189 N84-24119
Computational method for thermoviscoelasticity with application to rock mechanics
[DE84-003087] 20 p3242 N84-30585

LEE, S. H.
Optical analog & hybrid computer solution of partial differential equations
[AD-A137028] 10 p1571 N84-20291
Numerical solution of the Euler and the Navier-Stokes equations for a compressible flow problem 21 p3397 N84-31551

LEE, S. J.
Advanced on-board signal processor GaAs memory
[AD-A135465] 08 p1210 N84-17890

LEE, S. P.
Low cost acetylene terminated polymers
[AD-A140040] 19 p2998 N84-28996

LEE, S. S.
Absolute determination of stress in textured materials
[DE83-016083] 04 p0550 N84-13621
Input-output characterization of an ultrasonic testing system by digital signal analysis
[NASA-CR-3756] 06 p0854 N84-15565

LEE, S. W.
Numerical methods for analyzing electromagnetic scattering
[NASA-CR-175423] 10 p1473 N84-19620
Wind streaks on Mars: Comparisons of production models with observations of bright streaks 13 p2081 N84-23486
Secondary pattern computation of an arbitrarily shaped main reflector
[NASA-TM-85527] 16 p2481 N84-25909
Wave attenuation and mode dispersion in a waveguide coated with lossy dielectric material
[NASA-CR-173820] 20 p3172 N84-30145
Numerical methods for analyzing electromagnetic scattering
[NASA-CR-173916] 22 p3575 N84-32645

LEE, T.
South Atlantic physical oceanography study (year 5). Volume 1: Executive summary
[PB84-187855] 21 p3451 N84-31899

LEE, T. C.
TEM studies on the deformation structure of Cu-10Ni-6Sn spinodal alloy
[DE84-004426] 11 p1635 N84-20690
Approximate methods for obtaining the complex natural electromagnetic oscillations of an object
[AD-A143913] 23 p3821 N84-34229
Elastic wave propagation in a periodically triaminated composite 24 p3957 N84-35056

LEE, T. D.
Theoretical high energy physics
[DE84-011854] 21 p3495 N84-32153

LEE, T. J.
Degradation of jet fuel hydrocarbons by aquatic microbial communities
[AD-A139791] 15 p2304 N84-24822

LEE, T. S.
Application features and considerations in advanced lead-acid and nickel/iron EV batteries
[DE83-017936] 04 p0528 N84-13472
On mean Kullback-Leibler's information maximum likelihood principle and uncertain nonlinear systems
[AD-A137222] 10 p1569 N84-20279

LEE, T. S. H.
Meson-exchange Hamiltonian for NN scattering and isobar-nucleus dynamics
[DE83-017974] 04 p0600 N84-13959

LEE, T. W.
Kinematic and dynamic analysis of high-speed intermittent-motion mechanisms
[AD-A137903] 11 p1665 N84-20862
Optimization of high speed linkages 15 p2312 N84-24872

LEE, T. Y.
A numerical study of the coastal stratus cloud in a two-dimensioanl meso-scale model 17 p2733 N84-27371

LEE, W. D.
Catalog of selected heavy duty transport energy management models
[NASA-CR-168299] 05 p0761 N84-14991

LEE, W. I.
Microwave curing of composites 13 p1955 N84-22708

LEE, X. S.
Ballooning precessional instabilities in a single cell hot electron plasma
[DE84-007017] 14 p2230 N84-24373
Azimuthal electric fields and tandem ambipolarity
[DE84-010843] 21 p3501 N84-32189

LEE, Y.
Threshold kinetics of a solar-simulator-pumped iodine laser
[NASA-TP-2241] 08 p1163 N84-17575

LEE, Y. C.
Calculation of shuttle base heating environments and comparison with flight data 01 p0023 N84-10145

LEE, Y. H.
A comparison study of the energetics of standing and transient eddies between two general circulation models: The GLAS Climate Model and the NCAR Community Climate Model 08 p0880 N84-15726

LEE, Y. K.
Specific surface measurements of shock-modified powders
[DE83-016230] 02 p0196 N84-11275
The instability of axisymmetric supersonic jet impinging on flat plate
[BU-287] 15 p2258 N84-24546

LEE, Y. T.
Energy partitioning to product translation in the infrared multiphoton dissociation of diethyl ether
[AD-A131555] 02 p0226 N84-11482
Crossed molecular beam studies of the reactions of oxygen and fluorine atoms
[AD-A135415] 08 p1124 N84-17309
Crossed molecular beam studies of the reactions of oxygen and fluorine atoms
[AD-A136299] 12 p1792 N84-21688
Dynamic resonances in the reaction of fluorine atoms with hydrogen molecules
[DE84-013240] 23 p3823 N84-34242

LEE, Y. W.
New elements for analysis of space frames with tapered members 05 p0695 N84-14561

LEEB, W. R.
Prospects of laser communications in space 24 p3903 N84-34718
Experimental assessment of semiconductor lasers for optical data links in space 24 p3905 N84-34729
Receiver concepts for data transmission at 10 microns 24 p3905 N84-34732

LEECH, C. M.
Textile ballistic performance (data base)
[AD-A143249] 22 p3560 N84-32541

LEEDOM, D. K.
A sociotechnical communications model for command and control
[AD-P003238] 18 p2902 N84-28405

LEEHEY, P.
Measurements of the low wavenumber wall pressure spectral density during transition on a flat plate
[AD-A140753] 17 p2668 N84-27013

LEEMANN, C. W.
Intense antiproton source for a 20 TeV collider
[DE83-012878] 01 p0142 N84-10934
Choice of IP geometry and beam parameters for the SSC
[DE84-006610] 12 p1903 N84-22390

LEEMANS, M. J. J. M.
Optimization of constructions by means of the finite element method
[IWECO-5071303-82-2] 02 p0283 N84-11856

LEEN, T. K.
Topics in gravitation and gauge fields 02 p0247 N84-11616

LEEPER, R. J.
Applied-B ion diode experiments on PBFA 1
[DE83-017792] 03 p0447 N84-12942
Diagnosing the ion beam on the applied-B diode
[DE83-017822] 03 p0447 N84-12943
Direct measurement of the energy spectrum of an intense proton beam
[DE84-000457] 04 p0597 N84-13939
Proto-I axial-focusing experiments
[DE84-000458] 04 p0599 N84-13951

LEEPER, W. J.
Identification of scattering mechanisms from measured impulse response signatures of several conducting objects
[AD-A140773] 17 p2653 N84-26971

LEES, B. J.
Sizewell-Dunwich Banks field study, topic report 7: A study of nearshore sediment transport process
[IOS-146] 02 p0258 N84-11690

LEESE, G. E.
Cyclic torsion testing
[NASA-TM-83756] 21 p3419 N84-31687

LEESE, T. M.
Navy's advanced aircraft armament system program concept objectives 06 p0770 N84-15045

LEETE, T.
Self-propagating high-temperature synthesis of ceramics in vacuum
[AD-A142506] 20 p3162 N84-30079

LEFEBVRE, A. H.
Fuel effects on gas turbine combustion
[AD-A134503] 07 p0954 N84-16187
Spontaneous ignition characteristics of gaseous hydrocarbon-air mixtures 11 p1613 N84-20557
Flame propagation in heterogeneous mixtures of fuel drops and air
[NASA-CR-174644] 14 p2131 N84-23775

LEFEBVRE, C.
Reports from the German Meteorological Service. Number 165: The wind conditions in the Federal Republic of Germany with a view to windpower utilization (especially network planning). Part 3: Interior. Part 4: Hinterland
[ISBN-3-88148-211-3] 19 p3057 N84-29393

LEFEBVRE, M.
A study of satellite radar altimeter operation over ice-covered surfaces
[ESA-CR(P)-1810] 08 p1179 N84-17683

LEFEVRE, V. C.
Multisensor calibration procedure for an all weather short range air defense system concept
[AD-A141337] 18 p2791 N84-27715

LEFFLER, M. F.
Development of the L-1011 four-dimensional flight management system
[NASA-CR-3700] 09 p1254 N84-18183

LEFIEVRE, C.
Thermal constraints in a helicopter during long duration flights under extreme climatic conditions 11 p1696 N84-21078

LEFKOWITZ, I.
A study of phase transitions
[AD-A136449] 09 p1395 N84-19108

LEFTWICH, P. W.
NSSFC: VAS assessment activities 24 p3932 N84-34891

LEGECKIS, R.
Monitoring of long waves in the eastern Equatorial pacific 1981-1983 using satellite multi-channel sea surface temperature charts
[PB84-190487] 21 p3451 N84-31900

LEGENDRE, R.
Random eddies in wakes and mixing layers 03 p0429 N84-12813
Fluid thermodynamics
[ESA-TT-778] 06 p0645 N84-15512

LEGENKOV, V. I.
Study of erythrocyte adhesion in cosmonauts 15 p2375 N84-25252

LEGORGEU, J. P.
SPOT potential applications: An overview of the results of the simulation campaigns 03 p0396 N84-12587

LEGOSTAYEV, V. P.
Gravitational orientation of the orbital complex, Salyut-6--Soyuz
[NASA-TM-77299] 07 p0961 N84-16228

LEGRAND, A.
Serre's spectral sequence and homotopy 22 p3636 N84-33050

LEGRAND, F.
Batteries and accumulators for future Aerospatiale projects
[SNIAS-841-422-111] 21 p3355 N84-31282

LEGRESSUS, C.
Crystalline effects in Auger electron spectroscopy
[AERE-R-11051] 18 p2942 N84-28658

LEGUAY, G.
The exercise electrocardiogram 11 p1699 N84-21085
Continuous ECG monitoring by the Holter method 11 p1700 N84-21086
The Holter method in aeronautical medicine 11 p1700 N84-21087

LEGUILLOU, Y.
Calculation of electromagnetic fields on the surface of and inside cavities
[SNIAS-841-422-108] 21 p3388 N84-31506

LEHAMNN, F.
Laser remote sensing measurements of natural target reflectivities 23 p3782 N84-33983

LEHMAN, A. F.
Compendium of US incompressible flow facilities
[AD-A143650] 23 p3696 N84-33424

LEHMAN, D. R.
Investigations of the structure and electromagnetic interactions of few body systems
[DE84-006852] 12 p1902 N84-22388

LEHMANN, J.
Carbohydrate-protein interactions 23 p3805 N84-34123

LEHMANN, T.
Some remarks on the definition of material isotropy 17 p2761 N84-27539

LEHMANN, V.
A high-speed characterization technique for solar silicon 18 p2939 N84-28641

LEHMHUS, R.
Examination of the final design of the rotor blades GROWIAN 1
[BMFT-FB-T-83-306] 15 p2362 N84-25174

LEHNER, G.
Technical applications of solar energy. Project photovoltaic systems and project selective coatings
[BMFT-FB-T-83-299] 12 p1844 N84-22025

LEHNERT, G.
The ductility of metal diffusion coatings on nickel alloys and their characterization
[BLL-RISLEY-TRANS-4883] 12 p1795 N84-21706

LEHNIGK, S. H.
Research report program of the US Army in Europe 07 p0944 N84-16122

LEHR, W.
Interactions between satellites and plasma
[NASA-TM-77476] 23 p3700 N84-33451

LEHRFELD, D.
Life test performance of a Philips rhombic-drive refrigerator with bellows seals 06 p0819 N84-15341
Split-Stirling, linear-resonant, cryogenic refrigerators for detector cooling 06 p0819 N84-15342

LEHTINEN, B.
AESOP: An interactive computer program for the design of linear quadratic regulators and Kalman filters
[NASA-TP-2221] 07 p1057 N84-16843
Application of advanced control techniques to aircraft propulsion systems 11 p1618 N84-20590

LEHTO, A. O.
Cryogenic 75-95 GHz front-end for the Metsaehovi radio telescope
[REPT-S-145] 15 p2424 N84-25564

LEHTO, O.
The specific solutions of a uniform algebraic differential equation of the second order
[ISSN-0066-1953] 04 p0575 N84-13783

LEHTO, P.
On 4th-order homogeneous functionals in the class of bounded univalent functions 15 p2396 N84-25374

LEHTOMAKI, N. A.
Performance and robustness aspects of digital control systems 01 p0015 N84-10098

LEIB, J. E.
Application of 1553B to MRASM (Medium Range Air to Surface Missile): A systems look
[AD-P003540] 21 p3332 N84-31144

LEIBBRAND, N. F.
Water resources data for South Dakota, water year 1982
[PB84-117175] 09 p1339 N84-18748

LEIBOVICH, S.
Vortex stability and breakdown 03 p0325 N84-12122

LEIBOWITZ, L. M.
A circuit design for multiplexed digital correlation at 60 MHz
[AD-A139117] 14 p2142 N84-23842

LEIBOWITZ, S. G.
Ecological models of the Mississippi Deltaic Plain Region: Data collection and presentation
[PB83-239012] 02 p0245 N84-11604

LEIDHEISER, H., JR.
Corrosion control through a better understanding of the metallic substrate/organic coating/interface
[AD-A139086] 13 p1961 N84-22739

LEIDICH, C. A.
Proceedings of the Large Deployable Reflector Science and Technology Workshop. Volume 1: Executive Summary
[NASA-CP-2275-VOL-1] 18 p2950 N84-28709
Large Deployable Reflector Science and Technology Workshop. Volume 3: Systems and Technology Assessment
[NASA-CP-2275-VOL-3] 21 p3523 N84-32318

LEIFFER, J. L.
Structural pressure sensitive silicone adhesives
[NASA-CASE-LAR-13270-1] 22 p3558 N84-32532

LEIGH, R. W.
Photovoltaic-electrolyzer system transient simulation results
[DE84-010217] 20 p3149 N84-29995
Activities at the Brookhaven National Laboratory integrated test bed for advanced hydrogen technology
[DE84-010226] 21 p3374 N84-31409

LEIGH, S. D.
Turbulent wind effects on tension leg platform surge
[PB83-207464] 01 p0058 N84-10376

LEIGHTON, A. J.
Diagnostic tools for mapping California EOR processes
[DE84-006232] 15 p2359 N84-25157

LEIGHTON, F. T.
Wafer-scale integration of systolic arrays
[AD-A132536] 04 p0525 N84-13450
Planar embedding of planar graphs
[AD-A132538] 04 p0579 N84-13820
A framework for solving VLSI (Very Large Scale Integration) graph layout problems
[AD-A136143] 09 p1378 N84-19003

LEIGHTON, T.
Three-dimensional circuit layouts
[AD-A143430] 22 p3586 N84-32713

LEIGHTY, R. D.
The AI research environment at the US Army engineer topographic laboratories
[AD-A136316] 09 p1336 N84-18727

LEIJNSE, C.
Wind tunnel tests on a model of a semisubmersible platform and comparison of the results with full-scale data
[NLR-MP-82014-U] 06 p0780 N84-15113

LEIMER, G.
Investigations on the system boron-carbon silicon
[NASA-TM-77375] 09 p1275 N84-18324
Development of silicon nitride gas turbine components, phase 2
[BMFT-FB-T-83-322] 15 p2262 N84-24591
LEINBACH, F. H.
Optical measurements of a large-scale laboratory Beam Plasma Discharge (BPD) 05 p0638 N84-14196
LEINER, B.
Spread spectrum networks 13 p1977 N84-22831
LEININGER, G.
Reshaping the philosophy of spare parts acquisition: Project PACER PRICE
[AD-P002791] 13 p2056 N84-23338
LEINO, K.
Weld quality monitoring system
[VTT-RR-263] 19 p3033 N84-29240
LEINONEN, H.
Comparison of the force scale up to 1 MN between the Physikalisch-Technischen Bundesanstalt (PTB), West Germany and the Technical Research Centre of Finland (VTT)
[VTT-229] 15 p2336 N84-25021
LEIPELT, G.
Experiments to study the feasibility of making an X-ray laser at the Novette laser facility
[DE83-015615] 03 p0380 N84-12476
Soft X-ray laser experiments at Norvette Laser Facility
[DE84-012594] 21 p3410 N84-31627
LEIPOLD, M. H.
Crystallization of silicon ribbons 18 p2936 N84-28618
LEIS, B. N.
A critical review of the short crack problem in fatigue
[AD-A131349] 02 p0231 N84-11516
Creep fatigue of low-cobalt superalloys: Waspalloy, PM U 700 and wrought U 700
[NASA-CR-168260] 04 p0498 N84-13265
LEISEIFER, H. P.
Biological life support system 10 p1444 N84-19430
LEISENBERG, W.
Intelligent instruments for process measurement techniques (monitoring of sensors)
[BMFT-FB-T-84-078] 21 p3407 N84-31611
LEISER, D.
A comparison of map learning methods: Map study, simulated travel and mixed
[AD-A133544] 06 p0692 N84-15794
LEISERSON, C. E.
Wafer-scale integration of systolic arrays
[AD-A132536] 04 p0525 N84-13450
How to assemble tree machines
[AD-A139963] 15 p2330 N84-24988
An application of number theory to the organization of raster-graphics memory
[AD-A140638] 17 p2758 N84-27508
LEISHER, W. B.
Helium/solid powder o-ring leakage correlation experiments
[DE83-013773] 01 p0090 N84-10588
In-situ permeation tests of elastomeric O-ring seals
[DE83-015622] 03 p0356 N84-12318
LEISHMANN, J. G.
An investigation of three-dimensional stall development on NACA 23012 and NACA 0012 aerofoils
[GU-AERO-8300] 15 p2257 N84-24554
LEISSA, A. W.
An interpretive study of plate and shell buckling
[AD-A140487] 16 p2502 N84-26062
LEIST, D. W.
Water resources data, Kentucky water year 1982
[PB84-162320] 14 p2171 N84-24004
LEISTNER, H.
Sintering behavior of refractories in the ternary system ZrO2-Al2O3-Cr2O3 in dependence of the firing atmosphere
[BMFT-FB-T-83-105] 02 p0197 N84-11285
LEITE, J. P.
Ray tracing study of electron cyclotron heating in the TBR 2 Tokamak
[INPE-3192-PRE/556] 21 p3500 N84-32181
LEITER, D.
Optical characteristics of young quasars as sources of the cosmic X-ray background
[NASA-TM-85069] 11 p1760 N84-21488
LEITH, D.
Searching for limitations in capability due to high average rates 06 p0911 N84-15919
LEITH, D. W. G. S.
Prospects for Cerenkov ring imaging at hadron colliders 06 p0913 N84-15934
LEITH, E. N.
White light optical information processing
[AD-A144142] 24 p3963 N84-35096
LEITINGER, R.
Study of the system of middle atmosphere-ionosphere using remote-sensing data
[NASA-TM-77764] 23 p3797 N84-34074
LEITIS, E.
Chemistry and application of ozone and ozone/UV light for water reuse-2
[PB84-140557] 11 p1630 N84-20664
LEITNER, A.
The Austrian primary standard for ionizing radiation dosimetry results of international intercomparisons
[OEFZS-4269] 18 p2900 N84-28401
LEJAL, T.
A vectorized finite element method for computation of transonic tridimensional potential flows
[SNIAS-832-111-105] 15 p2257 N84-24555
LEJEUNE, G.
User's manual of a program to compute the distribution of photoelectrons
[CRPE-NT-110] 13 p2012 N84-23054
LEKAN, J. F.
A comparison of the domestic satellite communications forecast to the year 2000
[NASA-TM-83516] 01 p0062 N84-10405
LEKKERKERKER, C. G.
Full- and half-range theory of indefinite Sturm-Liouville problems
[DE84-001672] 05 p0741 N84-14869
LEKOUDIS, S. G.
Turbulent boundary layers developing over compliant surfaces
[AD-A144268] 24 p3900 N84-34698
LEKSIN, A. G.
Effects of long-term exposure to low positive temperatures on cold-induced vasodilation 18 p2896 N84-28371
LELAND, T. W.
New conformal solution theory
[PB83-249441] 03 p0457 N84-13008
Conformal solution methods based on the hard convex body expansion theory, section 1
[PB84-100940] 08 p1128 N84-17332
LELAURAIN, M.
Low temperature structure and properties of graphite lamellar compounds
[AD-A140875] 17 p2768 N84-27579
LELGEMANN, D.
Investigations of Doppler position determination following the short arc and semi short arc techniques 08 p1174 N84-17645
Validation of SEASAT-1 altimetry using ground truth in the North Sea region
[SER-B-263-MITT-166] 08 p1179 N84-17681
The computation of an astrogravimetric geoid by adjustment 17 p2727 N84-27357
LELIEVRE, P.
Thermal control of the SPOT satellite payload telemetry 10 p1447 N84-19456
LELIS, A. J.
TLINES: A computer program for circuits of transmission lines
[AD-A139596] 14 p2142 N84-23844
LEMAIRE, J.
Interdisciplinary study of directional discontinuities in the solar wind with ISPM 09 p1263 N84-18242
LEMAITRE, M. P.
A sample performance of the grille spectrometer aboard Spacelab
[AERONOMICA-ACTA-A-281-1984] 16 p2494 N84-26003
Trace constituants measurements deduced from spectrometric observations onboard Spacelab
[AERONOMICA-ACTA-A-286-1984] 20 p3239 N84-30565
LEMARSHALL, J.
Regional scale simulation of atmospheric structure using VAS data 24 p3929 N84-34869
LEMASTER, E. W.
Seasonal soybean crop reflectance
[E84-10049] 04 p0553 N84-13642
LEMASTER, R. A.
Dynamic certification of a thrust-measuring system for large solid rocket motors 06 p0860 N84-15603
LEMAY, M.
Operator workload measurement validation for the MARK IV DSCC monitor and control subsystem 10 p1475 N84-19634
LEMBKE, J. R.
Measurement of robot accuracy using the Latin Square Three-Dimensional Ball Plate
[DE84-004920] 08 p1206 N84-17862
LEMES, M. A. M.
Applications of fluid mechanics to meteorology
[INPE-2839-PRE/386] 02 p0253 N84-11655
A one dimensional model for the study of upwelling
[INPE-2936-RPE/445] 13 p2018 N84-23086
A numerical model for studying some coastal circulation
[INPE-2904-RPE/444] 17 p2737 N84-27386
LEMINI, D. G.
Propellant nonlinear constitutive theory extension: Preliminary results
[AD-A133364] 06 p0812 N84-15287
LEMKE, P. B.
ISPM mission operations 09 p1263 N84-18244
LEMMENS, W. J. M.
The Pascal Plus (PAP) preprocessor: A precompiler for a language for concurrent processing on a multiprocessor system
[EUT-82-E-130] 10 p1565 N84-20254
LEMOEL, A.
Crystalline effects in Auger electron spectroscopy
[AERE-R-11051] 18 p2942 N84-28658
LEMOINE, A. J.
A stochastic network formulation for performance assessment and life-cycle modeling in complex system design
[AD-A135337] 08 p1219 N84-17960
On failure modeling
[AD-A141760] 19 p3087 N84-29600
LEMONS, D. S.
Space-time evolution of the nonlinear 2-stream instability
[DE84-001336] 04 p0599 N84-13950
Simulations of the effects of mobile ions on the relativistic beam-plasma instability for intense beams
[DE84-000369] 04 p0607 N84-14003
LEMOS, A. C., JR.
Simple microprogrammed controllers: An alternate approach
[INPE-3069-PRE/486] 23 p3812 N84-34171
LEN, L. K.
Plasma conductivity experiments on pulsed high-voltage discharges by two coil RF-probe
[AD-A144595] 24 p3965 N84-35110
LENAHAN, D. T.
Air modulation apparatus
[NASA-CASE-LEW-13524-1] 23 p3694 N84-33410
LENAHAN, P. M.
Effects of light and modulation frequency on spin-dependent trapping at silicon grain boundaries
[DE84-002107] 07 p1082 N84-17035
LENAOUR, L.
Effect of dose rate on the microstructure of CW 316 SS
[DE84-780403] 24 p3885 N84-34614
LENARD, D. R.
Corrosion research in support of Canadian forces aircraft 16 p2435 N84-25622
LENCO, M.
Actual state and recent evolution of the French coast observed by remote sensing using LANDSAT recordings 03 p0399 N84-12606
LENETT, S. D.
Method and apparatus for receiving and tracking phase modulated signals
[NASA-CASE-MSC-16170-2] 18 p2828 N84-27952
LENGEL, R. H.
An exploratory analysis of the relationship between media richness and managerial information processing
[AD-A143503] 22 p3674 N84-33293
LENGRAND, J. C.
Investigation of free jets issued from small solid propellant rocket engines 08 p1121 N84-17290
LENGYEL-FREY, D.
Fundamental and harmonic emission in interplanetary type 2 radio bursts
[NASA-TM-86099] 20 p3320 N84-31079
LENIO, E. A.
The introduction of uncertainty techniques to the productivity investment fund
[AD-A140864] 17 p2770 N84-27591
LENK, R. J.
Phase transitions in chemisorbed systems 22 p3682 N84-33342
LENKEL, M.
Particle size distribution of typical ceramic raw materials by laser granulometry
[NASA-TM-77385] 11 p1636 N84-20696
LENNARTSSON, W.
The plasma sheet boundary layer
[AD-A137399] 10 p1537 N84-20069
Implications of the 1100 UT 22 March, 1979 CDAW 6 substorm event for the role of magnetic reconnection in the geomagnetic tail
[DE84-004335] 10 p1537 N84-20071
LENNON, J. F.
Further considerations in models of rough surface scattering
[AD-A130424] 01 p0146 N84-10962

LENOANE, G.
Metal-free cylindrical v-grooved optical cable
11 p1724 N84-21244

LENSTRA, A. K.
Factorization of polynomials 08 p1224 N84-17998
Factoring multivariate integral polynominals
[MC-IW-229/83] 13 p2034 N84-23190
Factoring multivariate integral polynomials, part 2
[MC-IW-230/83-PT-2] 13 p2034 N84-23191
Polynomial factorization by root approximation
[MC-IW-242/83] 13 p2035 N84-23201
Factoring multivariate polynomials over algebraic number fields
[MC-IW-233/83] 14 p2215 N84-24305

LENSTRA, H. W., JR.
Computational methods in number theory, part 1
[MATH-CENTRE-TRACTS-154-PT-1]
08 p1223 N84-17990
Primality testing 08 p1224 N84-17993
Computational methods in number theory, part 2
[MATH-CENTRE-TRACTS-155-PT-2]
08 p1225 N84-17999

LENSTRA, J. K.
Parallel algorithms in combinatorial optimization: An annotated bibliography
[MC-BW-189/83] 07 p1058 N84-16853
Scheduling theory since 1981: An annotated bibliography
[MC-BW-188/83] 07 p1068 N84-16934
A framework for the probabilistic analysis of hierarchial planning systems
[MC-BW-180/83] 13 p2037 N84-23216
New directions in scheduling theory
[CWI-OS-R8401] 17 p2761 N84-27535

LENT, L.
Assessment of institutional barriers to the use of natural gas fuel in automotive vehicle fleets
[NASA-CR-168183] 05 p0699 N84-14587

LENTES, F. T.
The manifold of spheroidal galaxies
09 p1409 N84-19208

LENTSNER, A. A.
Study of erythrocyte adhesion in cosmonauts
15 p2375 N84-25252

LENTSNER, K. P.
Study of erythrocyte adhesion in cosmonauts
15 p2375 N84-25252

LENTZ, J. M.
Airsickness during Naval flight officer training: Fleet readiness squadrons
[AD-A136973] 14 p2185 N84-24095

LENTZ, W. D.
Digital multi-tapped delay line with automatic time-domain programming
[AD-D011136] 22 p3581 N84-32676

LENZ, T. G.
Open cycle lithium chloride cooling system
[DE84-005831] 20 p3184 N84-30234

LENZ, W.
Development of a prototype cathode sputtering plant
[BMFT-FB-T-83-251] 10 p1472 N84-19617

LEO, J. A.
Oscillations of a slowly rotating weakly stratified gaseous planet
05 p0765 N84-15016

LEO, R.
High power bogie for 350 km/h. Design and definition
[MBB-UD-376-OE] 05 p0687 N84-14518

LEON, F. A.
Iterative coupling of partitioned clusters in the scattered-wave molecular-orbital method
[AD-A141522] 19 p3101 N84-29697

LEON, M.
Muon spin relaxation in ferromagnetic PdMn
[DE83-012659] 03 p0453 N84-12979

LEONARD, A.
Numerical simulation of vortex breakdown by the vortex-filament method 03 p0325 N84-12126

LEONARD, D. S.
A data acquisition and real-time display system for testing a jet engine compressor
[AD-A142696] 20 p3197 N84-30301

LEONARD, J. A.
Solar thermal parabolic dish systems: Technology and applications
[DE84-012239] 21 p3435 N84-31792

LEONARD, J. I.
Energy balance and the composition of weight loss during prolonged space flight
[NASA-CR-171745] 08 p1199 N84-17820
Water immersion and its computer simulation as analogs of weightlessness
[NASA-CR-171746] 08 p1200 N84-17821

LEONARD, J. M.
Statistical approach to damage tolerance assessment
[SNIAS-832-111-112] 15 p2260 N84-24575

LEONARD, J. W.
Review of preliminary analysis techniques for tension structures
[AD-A139853] 15 p2350 N84-25110

LEONARD, S. D.
The historical development and basis of human factors guidelines for automated systems in aeronautical operations
[NASA-CR-166580] 10 p1552 N84-20174

LEONARD, V. C.
On-line monitoring guide for technical personnel
[AD-A131044] 01 p0159 N84-11047

LEONARD, V. D.
Technology assessment: 1983 forecast of future test technology requirements
[AD-A132421] 04 p0623 N84-14107

LEONARD, W.
Videodisc premastering facility: Technical evaluation
[PB84-135821] 11 p1661 N84-20840

LEONARDI, R. M.
Information from bias measurement
18 p2688 N84-28327

LEONARDO, M.
PURDU-WINCOF: A computer code for establishing the performance of a fan-compressor unit with water ingestion
[NASA-CR-168005] 20 p3130 N84-29875

LEONE, J. M., JR.
Flow-through boundary conditions for time-dependent, buoyancy-influenced flow simulations using low order finite elements
[DE83-010256] 02 p0218 N84-11430
Another attempt to overcome the bent element blues
[DE84-007785] 21 p3400 N84-31571

LEONG, P. J.
Advanced aircraft electrical system control technology demonstrator. Phase 1: Requirements analysis & preliminary design. Phase 2: Detailed design
[AD-A136758] 10 p1428 N84-19337

LEONOV, N. A.
Plasma processes in the region of electron beam injection from a high altitude payload
05 p0637 N84-14194
Modeling of beam-plasma discharge in the laboratory
05 p0638 N84-14200
Plasma processes caused by an electron beam injected from a high altitude rocket probe. Part 1: Neutralization processes
[IWF-8302] 17 p2728 N84-27363

LEONOV, V. V.
Light-emitting diode matrix flat screen
22 p3567 N84-32592

LEONOVA, V. A.
Functional status of operators and its systemic and technical determinants 18 p2895 N84-28369

LEONPACHER, N. K.
Passive infrared ranging
[AD-A138066] 12 p1907 N84-22424

LEONTARITIS, I. J.
Input-output parametric models for nonlinear systems. Part 1: Deterministic nonlinear systems
[RR-251-PT-1] 20 p3283 N84-30844
Input-output parametric models for nonlinear systems. Part 2: Stochastic nonlinear systems
[RR-252-PT-2] 20 p3283 N84-30845

LEONTEV, V.
Organizational improvements in CEMA scientific, technical cooperation sought 01 p0158 N84-11039

LEONTEV, Y. A.
Influence of direct current on temperature gradient in directionally solidifying ingot of alloy YuNDK35T5
[BLL-M-35684-(5828.4)] 22 p3553 N84-32495

LEOPOLD, A. C.
Amyloplast movement in living statocytes
09 p1351 N84-18830

LEOVY, C. B.
Tropospheric science 20 p3219 N84-30447

LEPAGE, G. P.
Problems at the interface between perturbative and nonperturbative quantum chromodynamics
[DE84-002375] 06 p0926 N84-16018

LEPPAERANTA, M.
Investigation of ice dynamics in the marginal zone
[AD-A138558] 15 p2374 N84-25243

LEPPARANTA, M.
Investigation of ice dynamics in the marginal ice zone
[AD-A134599] 08 p1196 N84-17799
Investigation of ice dynamics in the marginal ice zone
[AD-A138558] 17 p2737 N84-27387

LEPPER, J. K.
Overview of composites capability at Lawrence Livermore National Laboratory
[DE84-001086] 04 p0492 N84-13228

LEPPING, R. P.
Saturn's outer magnetosphere
[NASA-TM-85105] 01 p0165 N84-11084
Modification to shock fitting program
[NASA-TM-86097] 16 p2548 N84-26353
A comparative review of bow shocks and magnetopauses
[NASA-TM-86114] 17 p2726 N84-27353
Large-scale interplanetary magnetic fields: Voyager 1 and 2 observations between 1 AU and 9.5 AU
[NASA-TM-86088] 18 p2952 N84-28712

LEPPLE, F. K.
Sea salt aerosol, atmospheric radon and meteorological observations in the western South Atlantic Ocean (February 1981)
[AD-A134792] 08 p1195 N84-17794

LEPRINCE, P.
Role of excitation frequency in discharges created by surface waves
[LP-205] 16 p2558 N84-26411

LERAT, A.
Implicit time dependent methods for the solution of the Euler equations 16 p2492 N84-25989

LERAT, B.
Robotisation of dye penetrant inspection: A study of a prototype and its development
[BLL-RISLEY-TRANS-4585-(9091.9)]
22 p3606 N84-32847

LERCH, F. J.
Verification of the accuracy of GEM-L2 in response to criticism by Lambeck and Coleman
20 p3221 N84-30486

LEROU, R. J. L.
A CW-CO2 laser range finder using heterodyne detection and on-off amplitude modulation
[PHL-1983-34] 12 p1821 N84-21871

LEROUX, G.
Compression algorithm for data analysis in a radio link (preparation of PACEM 2 experiment)
[CRPE-NT-121] 13 p1984 N84-22881

LEROY, O. J.
Ultrasonic reflection from solid halfspaces and from solid plates
[AD-A129686] 01 p0140 N84-10916

LESCHACK, A. R.
Assessment of means for determining deflection of the vertical
[AD-A131286] 01 p0100 N84-10651

LESCHZINER, M. A.
Computation of strongly swirling axi-symmetric free jets
[KU-SFB-80/T/216] 07 p1004 N84-16512

LESHT, B. M.
Ten-year forecasts of water quality in Lake Michigan using a deterministic eutrophication model
[DE84-011425] 21 p3437 N84-31804

LESINA, M. Y.
Integrable equations of motion by inertia for two bodies coupled through spherical hinge
17 p2650 N84-26946

LESKOVAR, B.
Recent advances in high-speed photon detectors
[DE83-014862] 02 p0224 N84-11467
Evaluation of Hamamatsu R1635 photomultiplier
[DE84-001252] 04 p0527 N84-13468
Low-noise gallium-arsenide field-effect transistor preamplifiers for stochastic beam-cooling systems
[DE83-017535] 04 p0528 N84-13475
Acoustic imaging of vapor bubbles through optically non-transparent media
[DE84-003961] 08 p1228 N84-18022
Cryogenically cooled broad-band GaAs field-effect transistor preamplifier
[DE84-004166] 10 p1487 N84-19722

LESLIE, D. H.
Computed survey spectra of 2-5 micron atmospheric absorption
[AD-A132526] 04 p0563 N84-13708

LESLIE, F.
GFFC experiment progress 24 p3924 N84-34833

LESLIE, J.
Approximations for expected values of normal order statistics with an application to goodness-of-fit
[AD-A139970] 15 p2400 N84-25401

LESLIE, J. J.
Manual for implementing a Shared Time Engineering Program (STEP) September 1980 through September 1983
[PB84-144260] 12 p1804 N84-21765

LESLIE, W. G.
Estimation and prediction of oceanic eddy fields
[AD-P002652] 11 p1689 N84-21017

LESLIE, W. W.
Thermal contraints on high-pressure granulite metamorphism of supracrustal rocks
11 p1678 N84-20948

LESNY, D.
The FASTBUS segment driver microcode description
[DE83-017972] 04 p0523 N84-13437

FASTBUS diagnostic language users manual, version 3(74)
[DE83-017932] 04 p0581 N84-13637
LESOULT, G.
The effect of recycling on cast structures and the internal character of IN100 alloy: A laboratory study
23 p3705 N84-33485
LESSARD, C.
Science of integration
[AD-A135590] 09 p1364 N84-18906
LESSER, J. D.
The influence of a moving suspension on the behaviour of modelled helicopter underslung loads
[BU-288] 15 p2260 N84-24573
LESSTER, L. E.
Advanced motor-controller development
[AD-A140299] 16 p2484 N84-25934
LESTER, D. F.
Far-IR spectroscopy of the galactic center: Neutral and ionized gas in the central 10 pc of the galaxy
[NASA-CR-166510] 13 p2070 N84-23411
LESTER, H. C.
Acoustic shocks in a variable area duct containing near sonic flows
[NASA-CR-172274] 06 p0908 N84-15897
LESTER, H. L.
Mobile radio alternative systems study. Volume 2: Terrestrial
[NASA-CR-168063] 01 p0061 N84-10403
LESTER, L. N.
Array processor utilization in the computation of real-time images
[ARL-SYS-TM-73] 22 p3637 N84-33058
Flight systems raster graphics software reference manual
[ARL-SYS-TM-72] 22 p3639 N84-33072
LESTER, M.
A study of geomagnetic pulsations using the AFGL (Air Force Geophysics Laboratory) magnetometer network
[AD-A140507] 16 p2526 N84-26217
LESTER, P. F.
Weather pattern climatology of the US
[DE84-005883] 11 p1688 N84-21011
LESTER, W. A., JR.
Chemical application of diffusion quantum Monte Carlo 10 p1560 N84-20218
Achieving chemical accuracy by quantum Monte Carlo
[DE84-005175] 11 p1746 N84-21392
Chemical application of diffusion quantum Monte Carlo
[DE84-005173] 11 p1746 N84-21393
LESTZ, S. A.
Utilization of alternative fuels in diesel engines
[NASA-CR-174669] 17 p2628 N84-26813
LESTZ, S. J.
Application of military lubricants in commercial hydraulic/power transmission systems and components
[AD-A136937] 10 p1467 N84-19584
LETALICK, D.
A computer model for an imaging coherent laser radar
[FOA-C-30341-E] 06 p0826 N84-15388
Design and calibration of a CW coherent laser radar
[FOA-C-30345-E1] 15 p2320 N84-24930
LETALLEC, P.
Numerical solution of viscoplastic flow problems by augmented lagrangians
[AD-A142793] 21 p3400 N84-31566
LETCHFORD, T. Y.
Structure of quasi-hyperbolic stochasticity in inertial self-excited oscillator 18 p2623 N84-27923
LETMANYI, H.
Assessment of techniques for evaluating computer systems for Federal Agency procurements
[PB84-176494] 17 p2756 N84-27496
LETOAN, T.
On the relationships between radar backscattering coefficient and vegetation canopy characteristics
23 p3768 N84-33882
LETOUZEY
System concepts for helicopter air-to-air combat
[SNIAS-832-210-102] 16 p2448 N84-25705
LETTON, A.
TICA (Torsion Impregnated Cloth Analysis) study of high-temperature thermoplastics
[AD-A137048] 10 p1468 N84-19586
LETTVIN, J. Y.
Physiology 22 p3684 N84-33363
LETTY, D. F.
Water resources data for Massachusetts and Rhode Island, water year 1982
[PB84-180009] 20 p3229 N84-30521
LEU, L. Y.
On Bayes and empirical bayes rules for selecting good populations
[AD-A133336] 06 p0904 N84-15869
Nonparametric selection procedures for a two-way layout problem
[AD-A135385] 08 p1220 N84-17962
Isotonic procedures for selecting populations better than a standard: Two-parameter exponential distributions
[AD-A135445] 08 p1223 N84-17985
On the optimality of some subset selection procedures
[AD-A140180] 16 p2549 N84-26362
LEUCHTER, O.
Experimentation with turbulent flows experiencing the effects of an adverse pressure gradient
03 p0325 N84-12127
LEUNG, D. C.
Microcrystalline silicon growth for heterojunction solar cells
[NASA-CR-173751] 18 p2869 N84-28215
Microcrystalline silicon growth for heterojunction solar cells
[NASA-CR-173750] 18 p2869 N84-28216
Silicon solar cell process development, fabrication and analysis
[NASA-CR-173950] 23 p3787 N84-34020
LEUNG, J. G. M.
Identification and verification of frequency-domain models for XV-15 tilt-rotor aircraft dynamics
[NASA-TM-86009] 24 p3856 N84-34445
LEUNG, K. C.
Radiometric calibration and processing procedure for reflective bands on LANDSAT-4 protoflight Thematic Mapper 20 p3206 N84-30366
Pre-launch absolute radiometric calibration of LANDSAT-4 protoflight Thematic Mapper
20 p3207 N84-30373
Radiometric calibration and processing procedure for reflective bands on LANDSAT-4 protoflight Thematic Mapper
[E84-10056] 21 p3426 N84-31731
Prelaunch absolute radiometric calibration of the reflective bands on the LANDSAT-4 protoflight Thematic Mapper
[E84-10180] 21 p3428 N84-31751
Prelaunch absolute radiometric calibration of LANDSAT-4 protoflight Thematic Mapper
[E84-10181] 21 p3429 N84-31752
Characterization of radiometric calibration of LANDSAT-4 TM reflective bands
[E84-10182] 21 p3429 N84-31753
LEUNG, K. N.
Concept for a volume-type tandem three-chamber negative hydrogen ion source
[DE84-003338] 07 p1073 N84-16971
Design and fabrication of a surface conversion negative ion source and an 80 keV pre-accelerator
[DE84-006753] 13 p2045 N84-23269
Electron emitting filaments for electron discharge devices
[DE84-011098] 20 p3180 N84-30201
Method and source for producing a high concentration of positively charged molecular hydrogen or deuterium ions
[DE84-011030] 20 p3295 N84-30918
Negative ion formation due to hydrogen plasma surface interaction
[DE84-012259] 22 p3659 N84-33192
Three chamber negative ion source
[DE84-014505] 23 p3823 N84-34243
LEUNG, M. S.
A review of SCATHA satellite results: Charging and discharging 08 p1115 N84-17254
Laboratory and space measurements of materials
[AD-P002113] 16 p2523 N84-26199
LEUNG, S.
A SAR for real-time ice reconaissance
23 p3765 N84-33869
LEUNG, W. H.
Adsorption of humic acids and trace metals in natural waters
[NASA-CR-174481] 02 p0238 N84-11563
LEUNG, W. P.
Thermal diffusivity in thin films measured by noncontact single-ended Pulsed-Laser-Induced thermal radiometry
[AD-A135991] 09 p1396 N84-19116
Techniques of flash radiometry
[AD-A138412] 12 p1908 N84-22427
Optical generation and detection of acoustic pulse profiles in gases for novel ultrasonic absorption spectroscopy
[AD-A141876] 19 p3104 N84-29720
LEUSCHNER, A. P.
Biorefining of selected industrial wastes to liquid fuels and organic chemicals
[DE83-013910] 01 p0054 N84-10346
LEUZE, G.
High strength powder metal (PM) steels by liquid phase sintering
[BMFT-FB-T-83-139] 02 p0198 N84-11287
LEV-ARI, H.
Modular computing networks: A new methodology for analysis and design of parallel Algorithms/Architectures
[AD-A139600] 14 p2209 N84-24261
Canonical realizations of completely regular modular computing networks
[AD-A142010] 20 p3277 N84-30802
LEV, I. E.
Cubic silicon nitride in iron-silicon steels
[BLL-M-35653-(5828.4)] 22 p3552 N84-32486
LEVAN, N.
Stabilization studies
[AD-A142644] 20 p3281 N84-30832
LEVANDER, A. R.
The shear wave velocity structure of the lithosphere in central and northern California 23 p3795 N84-34063
LEVATIN, J. A.
Comparison of a simplified version of TRACKER with an analytic solution to a model ray tracing problem
[DE84-007091] 12 p1848 N84-22044
LEVEILLE, J.
Hadron-hadron collider group
[DE83-010704] 03 p0437 N84-12865
LEVENSON, J. B.
CEREAS: An interactive computer-mapping system for environmental assessments
[DE83-017927] 04 p0585 N84-13864
LEVENSON, M. D.
The potential dependence of surface plasmon-enhanced second harmonic generation at thin film silver electrodes
[AD-A138322] 12 p1793 N84-21692
Second harmonic generation at thin film silver electrodes via surface polaritons
[AD-A143597] 23 p3824 N84-34254
LEVENSPIEL, O.
Preliminary study of a radiantly heated fluidized bed for the production of high purity silicon
[NASA-CR-173758] 19 p3050 N84-29352
LEVENTHAL, J. J.
Low energy ion-neutral collisions
[DE84-005392] 11 p1730 N84-21287
LEVENTHAL, M.
Development of a segmented n-type germanium detector, and its application to astronomical gamma-ray spectroscopy
[NASA-TM-85435] 03 p0461 N84-13039
LEVEQUE, R. J.
Accuracy of stable schemes for 2D scalar conservation laws
[DE84-004989] 08 p1222 N84-17976
LEVERANT, G. R.
Study of the influence of metallurgical factors on fatigue and fracture of aerospace structural materials
[AD-A140659] 17 p2623 N84-26789
A new approach to the evaluation of the effects of stress state and interfacial properties on the behavior of advanced metal matrix composites
[AD-A143083] 21 p3357 N84-31294
Evaluation of the effects of stress state and interfacial properties on the behavior of advanced metal matrix composites
[AD-A143911] 23 p3711 N84-33525
LEVERENZ, D.
Evaluation of microcomputer energy analysis programs
[AD-A144684] 24 p3942 N84-34959
LEVERMORE, C. D.
High frequency acoustic instabilities in heated fluids
[DE84-005114] 10 p1575 N84-20324
LEVERSEE, G. J.
Fates and biological effects of polycyclic aromatic hydrocarbons in aquatic systems
[PB83-250191] 04 p0561 N84-13698
LEVI-SETTI, R.
Study of ion-solid interactions and material characterization with a new high-resolution scanning ion probe
[AD-A133896] 05 p0647 N84-14257
LEVIN, B. M.
Measuring evacuation difficulty
04 p0512 N84-13363
LEVIN, D.
Analysis of an integration method for rapidly oscillating integrands
[AD-A141731] 19 p3087 N84-29596
LEVIN, G. I.
Narrow-seam laser welding of components of low thickness 23 p3709 N84-33514
LEVIN, R.
Hybrid vehicle assessment. Phase 1: Petroleum savings analysis
[NASA-CR-173741] 18 p2947 N84-28682
LEVINE, C. J.
Evaluation of thermal data for geologic applications
[NASA-CR-173211] 07 p1033 N84-16703

LEVINE, D. M.
Hy-wire and fast electric field change measurements near an isolated thunderstorm, appendix C
[NASA-TM-85072] 01 p0107 N84-10692
Comment on the extinct paradox
[NASA-TM-85113] 06 p0617 N84-15958
The influence of ground conductivity on the structure of RF radiation from return strokes
[NASA-TM-86065] 12 p1860 N84-22117
Correlated measurements of UHF radar signatures, RF radiation and electric field changes from lightning
[NASA-TM-84425] 16 p2481 N84-25907
Tortuosity of lightning return stroke channels
[NASA-TM-86104] 18 p2883 N84-28295
LEVINE, J. S.
Transmission system development for electron cyclotron heating experiments of a Tokamak plasma
[AD-A140688] 17 p2766 N84-27566
LEVINE, L.
Effect of atropine on the exercise-heat performance of man
[AD-A131843] 03 p0416 N84-12719
Effects of heat acclimation on atropine impaired thermoregulation
[AD-A139292] 15 p2380 N84-25282
Influence of heat stress and acclimation on maximal aerobic power
[AD-A142329] 19 p3066 N84-29453
Upper body exercise performance: Comparison between women and men
[AD-A142330] 19 p3066 N84-29454
Upper to lower body muscular strength and endurance ratios for women and men
[AD-A143621] 23 p3811 N84-34168
LEVINE, M. A.
A 2-D skin-current toroidal-MHD-equilibrium code
[DE83-016916] 03 p0446 N84-12929
LEVINE, M. D.
Thermistor chain observations during MILDEX (mixed layer dynamics experiment)
[AD-A143933] 23 p3803 N84-34114
LEVINE, M. V.
Identifying different item response curves
[AD-A133259] 07 p1049 N84-16798
LEVINE, R. D.
Electronic excitation in molecular collisions: Structural, dynamic and kinetic considerations
[AD-A143956] 23 p3822 N84-34238
LEVINE, S.
Metal oxide anodes for the photoelectrochemical generation of oxygen
[DE84-004166] 10 p1456 N84-19511
LEVINE, S. R.
Deposition stress effects on thermal barrier coating burner rig life
[NASA-TM-83670] 16 p2470 N84-25830
Coating with overlay metallic-cermet alloy systems
[NASA-CASE-LEW-13639-2] 18 p2813 N84-27855
Overlay metallic-cermet alloy coating systems
[NASA-CASE-LEW-13639-1] 23 p3716 N84-33555
LEVINS, A.
Safety-related requirements for photovoltaic modules and arrays
[NASA-CR-173747] 18 p2868 N84-28208
LEVINS, D. A.
Organometallics in high energy chemistry
[AD-A135715] 09 p1275 N84-18323
LEVINSHTEYN, M. Y.
The 1/f noise in conditions of high geometrical magnetoresistances 17 p2636 N84-26862
LEVINSKIENE, A. M.
Investigation of the possibilities for the electrodeposition of titanium from non-aqueous solutions
[BLL-OA-TRANS-3069-(6196.3)] 04 p0498 N84-13267
LEVINSKIY, Y. V.
Obtaining titanium carbide powder from titanium shavings 12 p1785 N84-21645
LEVINSON, M.
Approximations for elastic layers and a three-dimensional elasticity solution for a simply supported rectangular plate 15 p2314 N84-24884
LEVINTHAL, M. L.
Replacement of PBNA in HB and HC polymers used in SRM propellant and liner
[NASA-CR-170936] 03 p0355 N84-12311
LEVIS, A. H.
Proceedings of the 6th MIT/ONR (Massachusetts Institute of Technology/Office of Naval Research) Workshop on C3 (Command, Control, and Communications) Systems
[AD-A138614] 13 p1977 N84-22835
Information processing and decisionmaking organizations: A mathematical description
[AD-P002878] 13 p1978 N84-22839
Information theoretic models of memory in human decisionmaking models
[AD-P002883] 13 p1978 N84-22844
The design of information structures: Basic allocation strategies for organizations
[AD-P002909] 13 p1981 N84-22861
LEVIS, C. A.
The calculated performance of some radar and transmissometer systems in rain and fog at 35, 94, 140 and 240 GHz, volume 1
[AD-A133587] 06 p0625 N84-15380
Engineering calculations for communications satellite systems planning
[NASA-CR-173532] 14 p2113 N84-23662
LEVISKY, J. A.
Nuclear magnetic resonance studies of molten salts
[AD-A141751] 19 p2988 N84-28935
LEVISON, W. H.
F-14 modeling study
[NASA-CR-172336] 16 p2448 N84-25701
Development of a model for human operator learning in continuous estimation and control tasks
[AD-A140320] 16 p2538 N84-26294
The VERRUN and VERNAL software systems for steady-state visual evoked response experimentation
[NASA-CR-172311] 16 p2539 N84-26298
Motion simulation with a G-seat system: Sensory and performance mechanisms
[AD-P003267] 18 p2907 N84-28432
LEVIT, I.
Element-by-element solution procedures for nonlinear structural analysis 21 p3420 N84-31694
LEVITAS, J.
Ignition delay times of propene oxygen argon mixtures
[AD-A130464] 01 p0037 N84-10232
LEVITSKIY, L.
Lack of support for introduction of Soviet inventions scored 01 p0158 N84-11042
LEVITT, K. N.
Fault tolerant architectures for integrated aircraft electronics systems
[NASA-CR-172226] 01 p0119 N84-10769
Development and analysis of the Software Implemented Fault-Tolerance (SIFT) computer
[NASA-CR-172146] 09 p1371 N84-18953
Investigation, development, and evaluation of performance proving for fault-tolerant computers
[NASA-CR-166008] 15 p2385 N84-25307
Hierarchical design and verification for VLSI 15 p2388 N84-25323
Fault tolerant architectures for integrated aircraft electronics systems, task 2
[NASA-CR-172282] 18 p2795 N84-27734
Distributed avionic computers
[AD-A142140] 19 p3073 N84-29494
LEVITT, L. J.
Joint probability of selected cloud and visibility thresholds around Frankfurt, Germany
[AD-A141342] 18 p2891 N84-28348
LEVTEROV, A. N.
Investigation of asynchronous detector with self-pumping based on Gunn diode 17 p2633 N84-26847
LEVY-LEBOYER, C.
Managerial and organizational determinants of efficiency in research teams (social sciences)
[AD-A144153] 24 p3968 N84-35125
LEVY, A.
Prediction of erosive wear by solid particles in a turbulent curved-channel flow
[DE83-012896] 01 p0061 N84-10524
Implementation of elastic-plastic structural analysis into NASTRAN 06 p0860 N84-15606
LEVY, A. C.
Evaluation of adhesive materials for bonded sheath cable designs 11 p1721 N84-21226
LEVY, A. J.
The Nova laser assurance-management system
[DE83-018188] 04 p0542 N84-13568
Fast evaluation of the numerical error rate in the presence of intersymbolic interference
[CRPE-NT-127] 13 p2029 N84-23158
LEVY, A. V.
Effect of surface doping on the oxidation of chromia former alloys
[DE84-013390] 22 p3667 N84-33247
LEVY, B.
Linear and nonlinear filtering and related inverse scattering problems
[AD-A135175] 08 p1219 N84-17954
Linear and nonlinear filtering and stochastic control
[AD-A142229] 19 p3093 N84-29645
LEVY, C.
On the dynamic fracture of bars, beams and plates 03 p0391 N84-12552
LEVY, D.
Thomson develops new optical reader, digital switching system: Gigadisc reader recorder 24 p3891 N84-34638
LEVY, E.
A compilation of moored current meter data from the western North Pacific. Volume 31, 1980 - 1982
[AD-A134234] 08 p1196 N84-17796
LEVY, M.
Current design requirements for corrosion control on helicopters 16 p2434 N84-25616
LEVY, P. F.
Biorefining of selected industrial wastes to liquid fuels and organic chemicals
[DE83-013910] 01 p0054 N84-10348
LEVY, P. W.
Recent developments in thermoluminescence kinetics
[DE84-013226] 22 p3547 N84-32457
LEVY, R.
Optical bistability in CuCl 14 p2241 N84-24456
Optimization of antenna structure design 22 p3572 N84-32624
LEVY, S.
High power optical switch for microsecond switching
[AD-D011064] 19 p3017 N84-29123
LEVY, V.
Effect of dose rate on the microstructure of CW 316 SS
[DE84-780403] 24 p3885 N84-34614
LEW, P. W.
Defects at electrode-oxide and electrode-silicon interfaces in VHSI device structures
[AD-A140814] 17 p2663 N84-26990
LEWANDOWSKI, F.
Low-Altitude Database Development Evaluation and Research (LADDER)
[AD-P003468] 21 p3511 N84-32243
LEWANDOWSKI, J. J.
Hydrogen effects on cleavage fracture in fully pearlitic 1080 steel 17 p2621 N84-26778
LEWCZANOSKI, F. W.
Type KODEK DC modems for use in CYFRONET terminal network
[AD-A131057] 02 p0213 N84-11393
LEWE, V.
Very large scale integration logical and physical structures of VLSI systems
[BMFT-FB-T-83-267] 10 p1488 N84-19730
LEWELLEN, W. S.
Further developments of the A. R. A. P. model for the atmospheric marine environment
[AD-A129862] 01 p0107 N84-10696
LEWIN, R.
Infrared temperature measurements in combustion systems
[PNR-90170] 13 p1994 N84-22942
LEWIN, R. A.
Prochloron research
[NASA-CR-173264] 10 p1543 N84-20113
Prochloron on synaptula 10 p1543 N84-20114
Prochloron 10 p1544 N84-20116
Prochloron-ascidian symbioses: Photosynthetic potential and productivity 10 p1544 N84-20117
Diurnal rhythm in the cell-division frequency of prochloron (prochlorophyta) in nature 10 p1544 N84-20118
Chlorophyll and carotenoid pigments of prochloron (prochlorophyta) 10 p1544 N84-20119
Report of prochloron research, IPE-7 (Palau, February 1982) 10 p1544 N84-20122
LEWIS, A.
Basic vision events
[AD-A132746] 06 p0890 N84-15782
Primary events in vision - investigation of basic eye responses
[AD-A132747] 06 p0890 N84-15783
LEWIS, B. L.
Range-Doppler Moving Target Indicator (MTI) analysis and assessment
[AD-A139579] 14 p2141 N84-23836
Cascaded adaptive loops
[AD-D011116] 22 p3580 N84-32674
LEWIS, C. E.
Climatological coefficients for rain attenuation at millimeter wavelengths
[PB84-104272] 08 p1148 N84-17475
LEWIS, C. H.
Viscous shock-layer predictions of three-dimensional nonequilibrium flows past the space shuttle at high angle of attack 01 p0024 N84-10151
LEWIS, C. R.
Development of mechanically-stacked multijunction solar cell for concentrator applications
[DE84-008355] 15 p2363 N84-25177
Development of a 30 percent efficient 3-junction monolithic cascade solar cell 19 p3047 N84-29328

LEWIS, D.
Helicopter engine technology with particular reference to the Rolls-Royce Gem engine
[PNR-90193] 13 p1934 N84-22578
LEWIS, D. A.
High-sensitivity laser spectroscopy with atoms from a cooled helium jet
[DE84-000614] 04 p0540 N84-13554
LEWIS, D. E.
Two-dimensional fast Fourier transforms in image processing
[AD-A139997] 15 p2398 N84-25390
LEWIS, D. L.
Improving the air traffic control system: An assessment of the National Airspace System Plan
07 p0950 N84-16160
LEWIS, D. W.
Extragalactic emission-line objects and the Michigan-Tololo survey 04 p0622 N84-14101
LEWIS, E.
The effects of acoustic excitation on the mixing of two parallel laminar streams of fluid
[AD-A126788] 06 p0843 N84-15502
LEWIS, G.
The use of Auger electron spectroscopy and ellipsometry in the study of corrosion inhibition
06 p0815 N84-15307
LEWIS, G. K.
Influence of a plasma during laser welding
[DE84-004414] 10 p1502 N84-19820
LEWIS, G. W.
Biomagnetism: Possible new predictor of personnel performance
[AD-A142451] 20 p3262 N84-30697
LEWIS, J. A.
Helicopter In-flight Monitoring System second generation (HIMS 2)
[AD-A132496] 04 p0483 N84-13179
Checklist and bibliography of benthic marine macroalgae recorded from northern Australia. 1: Rhodophyta
[MRL-R-912] 11 p1692 N84-21039
LEWIS, J. G.
Ordering methods for sparse matrices
[AD-A133657] 05 p0735 N84-14824
LEWIS, J. H.
Symmetric systems with semisimple structure algebra: The quaternionic case
[NASA-CR-173421] 13 p2034 N84-23193
LEWIS, J. W. L.
Design and initial operational characteristics of a shock tube-Raman scattering calibration system
[AD-A133251] 06 p0847 N84-15525
LEWIS, K. A.
Installation and evaluation of SPLICE
[AD-A140170] 16 p2484 N84-25933
LEWIS, M. B.
Microstructure and properties of TiB2 implanted with 1-MeV nickel
[DE83-014020] 01 p0154 N84-11012
LEWIS, M. C.
The status of analytical preparation for 2-dimensional testing at high transonic speeds in the University of Southampton transonic self-streamlining wind tunnel
[NASA-CR-3785] 11 p1602 N84-20494
LEWIS, M. L.
Wideband microstrip ring radiator
[AD-P003507] 21 p3384 N84-31475
LEWIS, P. A. W.
Interannual variability in sea-surface temperature at one location along the central California coast
[AD-A142553] 20 p3251 N84-30632
LEWIS, P. J.
A general purpose guidance simulation program: Software definition
[BAE-BT-13122] 13 p2026 N84-23132
LEWIS, R. I.
Numerical simulation of stalling flows by an integral equation method 07 p0956 N84-16199
LEWIS, R. J.
Registry of toxic effects of chemical substances. User's guide to the RTECS computer tape
[PB83-223172] 01 p0115 N84-10748
LEWIS, R. M.
Observing atmospheric water in storms with the Nimbus 7 scanning multichannel microwave radiometer
17 p2716 N84-27291
LEWIS, S. W.
The Corfu landslide: Analog to giant landslides on Mars 13 p2086 N84-23513
LEWIS, T.
High-gain error actuated flight control systems for continuous linear multivariable plants
[AFIT/GAE/EE/82D-1] 15 p2254 N84-24534
LEWIS, T. J.
The role of boundary layer capacitance at blocking electrodes in the interpretation of dielectric cure data in adhesives
[AD-A142188] 19 p3016 N84-29121
LEWIS, W. D.
An experimental study of thrust augmenting ejectors
[AD-A136929] 10 p1492 N84-19757
LEWIS, W. J.
V/STOL propulsion system aerodynamics
16 p2436 N84-25630
LEWOC, J. F.
CEMA computer cooperation, problems described: Application of British technology
24 p3960 N84-35078
LEWTAS, J.
Evaluation of motor vehicle and other combustion emissions using short-term genetic bioassays
[PB83-233270] 01 p0112 N84-10731
LEWY, S.
Helicopter noise 06 p0767 N84-15027
Experimental methods in compressor noise studies
06 p0767 N84-15028
LEWYCKYJ, J. Z.
USN/USAF Anti-G-Suit consolidation program
[AD-A136138] 09 p1364 N84-18908
Development of a pressurized anti-exposure barrier system
[AD-A137130] 10 p1553 N84-20178
LEXANDER, J.
Information technique 1982: Underwater technique
[FOA-C-30296-E1,E2,E3] 07 p1085 N84-17058
LEYENDECKER, E. V.
Lateral-torsional response of structures subjected to seismic waves
[PB83-239582] 04 p0516 N84-13390
Proceedings of the 12th Joint Panel Conference of the US-Japan Cooperative Program in Natural Resources: Wind and Seismic Effects
[PB84-167758] 15 p2318 N84-24911
LEYLAND, D. C.
Aerodynamics of V/STOL aircraft: Performance assessment 16 p2437 N84-25635
LEYNAERT, J.
New TPS calibration bench, and ejector tests
14 p2099 N84-23594
LHAGWA, L.
Circadian rhythm of human heart rate during antiorthostatic tests 15 p2376 N84-25259
LI, B. L.
Substitution and addition reactions of a (Methylene)phosphine with alkyllithium reagents
[AD-A141512] 19 p2984 N84-28908
LI, C. F.
Room-temperature thermal optical bistability in thin-film interference filters and dye-filled etalons
14 p2234 N84-24402
LI, C. Y.
Workhardening correlations based on state variables in some FCC metals in monotonic loadings
[DE84-004880] 10 p1461 N84-19540
Repeated load relaxations of type 316 austenitic stainless steel
[DE84-004875] 10 p1461 N84-19541
Load relaxation testing at medium strain rates
[DE84-004877] 10 p1461 N84-19544
Applicability of Hart's state variable model to large strain rate ranges
[DE84-004878] 10 p1462 N84-19549
LI, F.
Digital filter processor design for spaceborne scatterometers 23 p3777 N84-33948
NASA scatterometer on NROSS: A system for global observations of oceanic winds 23 p3782 N84-33960
LI, F. Z.
Comparison of methods for calculating energy release rates
[DE84-012231] 20 p3204 N84-30350
LI, H. Y.
Acta aeronautica et astronautica sinica (selected articles
[AD-A138531] 12 p1764 N84-21506
LI, K. C.
Application of an optimization method to high performance propeller designs
[NASA-TM-83710] 16 p2433 N84-25607
LI, S.
Ultraviolet light absorbers having 2 different chromophors in the same molecule
[DE84-011279] 20 p3150 N84-30000
LI, S. K.
Optoelectronic programmable logic arrays
24 p3941 N84-34948
LI, S. N.
Acta aeronautica et astronautica sinica (selected articles
[AD-A138531] 12 p1764 N84-21506
LI, S. S.
Study of deep-level defects and transport properties vs. growth parameters and annealing conditions in III-IV compound semiconductors
[AD-A130778] 01 p0153 N84-11008
Ohmic versus rectifying contacts of Au to n-GaAs by ion sputtering 09 p1393 N84-19097
Defect studies in one MeV electron irradiated GaAs and in Al/sub x Ga/sub I-x As P-N junction solar cells
19 p3045 N84-29321
LI, T. C.
Effect of feed gas trace components on the SRC-1 hydrogen purification unit
[DE84-012975] 22 p3582 N84-32558
LI, T. T. T.
Electron-transfer kinetics of redox centers anchored to metal surfaces: Weak- versus strong-overlap reaction pathways
[AD-A139043] 13 p1956 N84-22718
Intramolecular electron transfer at metal surfaces. 3: Influence of bond conjugation on reduction kinetics of Cobalt (3) anchored to metal surfaces via thiophenecarboxylate ligands
[AD-A139066] 13 p2041 N84-23242
Surface-enhanced Raman spectroscopy of electrochemically characterized interfaces. Transition-metal isothiocyanate adsorbates at silver adsorbates
[AD-A142407] 20 p3148 N84-29986
Electrochemical activation parameters for surface-attached reactants evaluation of unimolecular frequency factors for representative ligand-bridged reactions
[AD-A142483] 20 p3148 N84-29990
LI, V. C. F.
Stressing processes associated with great crustal earthquakes at plate boundaries
02 p0246 N84-11612
LI, W.
A study of plasmaspheric density distributions for diffusive equilibrium conditions
[AD-A132643] 05 p0703 N84-14615
LI, X.
Radiolysis of resist polymers. 2: Poly(haloalkylmethacrylates) and copolymers with methylmethacrylate
[AD-A132095] 04 p0507 N84-13321
Structural analysis of air outflow from low layers of intense thundercloud
[AD-A136500] 09 p1348 N84-18810
Journal of aeronautical materials (selected articles)
[AD-A140167] 16 p2434 N84-25610
LI, X. S.
The automatic remote sensing system on a 320 meter meteorological tower
[AD-A137144] 10 p1539 N84-20085
LI, Y.
Properties of aerosols during a dust storm over the Beijing area
[AD-A136521] 09 p1344 N84-18783
An adaptive, noise tolerant, frequency extrapolation algorithm for diffraction corrected ultrasound tomography
[AD-A136455] 09 p1375 N84-18982
LI, Y. G.
Thermodynamics of aqueous sodium chloride to 823 K and 1 kbar
[DE84-001841] 06 p0927 N84-16019
LI, Y. Y.
A numerical method in solving a coupled thermoelasticity equation and some results
[AD-A130183] 01 p0129 N84-10843
LI, Z. L.
Plane stress crack-line fields for crack growth in an elastic perfectly-plastic material
[AD-A134868] 08 p1171 N84-17630
Plastic deformations near a rapidly propagating crack tip
[AD-A138273] 12 p1826 N84-21907
LIAN, J.
Acta mechanica sinica (Selected articles)
[AD-A142128] 19 p3024 N84-29180
LIANG, E. P.
Physics of the synchrotron model of cosmic gamma-ray bursts
[DE84-000917] 04 p0622 N84-14104
Emission model of gamma-ray bursts
[NASA-CR-173629] 17 p2781 N84-27656
LIANG, F.
Effect of amine surface treatment on the adhesion of a polyurethane to the surface
[AD-A135591] 09 p1288 N84-18406

Durability of adhesive bonds between glass or metal substrates and a polybutadiene-polyurethane
[AD-A137489] 10 p1466 N84-19578
Durability of adhesive bonds with ionic bonds at the interface 20 p3144 N84-29960

LIANG, J. K.
Optimal approximation algorithms for digital filter design 05 p0673 N84-14420

LIANGJIN, Z.
For the sacred air space of our homeland
[AD-A137189] 11 p1599 N84-20476

LIANGZHU, W.
Iron and steel (selected articles)
[AD-A135576] 09 p1282 N84-18376

LIAO, C.
Distributed feedback bistability in channel waveguides 14 p2236 N84-24417

LIAO, S. S.
Contractor 'Hungriness' and the relative profitability of DoD business
[AD-P002796] 13 p2057 N84-23342

LIARD, F.
Helicopter fatigue design guide
[AD-A138963] 11 p1605 N84-20513

LIAS, N. C.
Manufacturing technology for high quality swept-culture growth quartz
[AD-A133500] 06 p0923 N84-15998

LIAW, B. M. B.
A dynamic fracture assessment of impact damage in structural ceramics 16 p2469 N84-25826

LIAW, Y. P.
The effects of channel tortuosity on electromagnetic radiations from lightning return strokes 03 p0359 N84-12335

LIBBRECHT, K. G.
The shape of the Sun 21 p3526 N84-32334

LIBBY, J. B.
Synthesis of monomers for the preparation of regiospecifically substituted poly(phenylacetylenes) as potential chemical detectors
[AD-A144690] 24 p3869 N84-34628

LIBELO, L. F.
The concentric spherical cavity TE and TM (Transverse Electromagnetic and Transverse Magnetic) eigenvalues
[AD-A143965] 23 p3732 N84-33652

LIBERATO, J., JR.
Research salaries
[INPE-2971-NTE/209] 23 p3832 N84-34307

LIBERMAN, A. M.
Status and progress of studies on the nature of speech, instrumentation for its investigation and practical applications
[AD-A136416] 09 p1298 N84-18488

LIBERMAN, I.
High PRF HgBr laser life testing
[AD-A132660] 05 p0686 N84-14511

LIBIN, I. Y.
Spectral characteristics of cosmic ray fluctuations 24 p3993 N84-35269
Joint analysis of the data obtained by detecting the general, muon, and neutron components of cosmic ray intensity on May 7, 1978 24 p3993 N84-35270

LIBOFF, R. L.
Unified theory of plasma correlations
[AD-A131478] 02 p0296 N84-11938
Laser and plasma research
[AD-A136519] 09 p1397 N84-19125

LIBURDY, R. P.
Effects of microwaves on cell membrane permeability
[AD-A142979] 21 p3453 N84-31913

LIBY, G. H.
Changing gain versus area of stability for a scalar, modal controller
[AD-A136804] 10 p1436 N84-19385

LICARI, J. J.
Development of low cost custom hybrid microcircuit technology
[NASA-CR-161977] 18 p2832 N84-27978
Development of a qualification standard for adhesives used in hybrid microcircuits
[NASA-CR-161978] 18 p2832 N84-27979

LICATA, W. H.
Study on extremizing adaptive systems and applications to synthetic aperture radars
[AD-A137725] 11 p1643 N84-20744

LICHT, R. R.
Versatile fire barrier systems for telephone cable 11 p1723 N84-21241

LICHTEN, S. M.
Turbulence and mass motion in galactic molecular clouds 06 p1244 N84-18129

LICHTENBERG, A. J.
Research on self-generated stochastic motion
[AD-A144093] 23 p3820 N84-34225

LICHTENBERG, D. B.
Indiana University Theoretical Particle Physics Group
[DE84-010593] 20 p3293 N84-30903

LICHTENEGGER, H.
On the two-body problem with variable masses 19 p3117 N84-29808

LICHTENSTEIN, S.
Societal versus individual decision making: How they might differ
[IZF-1983-20] 12 p1867 N84-22166

LICHTENSTEIN, T. L.
Damage thresholds of thin film materials and high reflectors at 248 nm
[DE83-012663] 03 p0380 N84-12472

LICHTFUSS, H. J.
Design of transonic compressor cascades for minimal shock losses and comparison with test results 07 p0955 N84-16192

LICITRI, E.
Frequency modulation with noise in a sampled Automatic Frequency Control (AFC) system 17 p2652 N84-26963

LIDDERDALE, I. G.
Surface-attack mission simulation: Preliminary scenario evaluation
[AD-A135868] 09 p1259 N84-18219

LIDDLE, S.
Hybrid vehicle assessment. Phase 1: Petroleum savings analysis
[NASA-CR-173741] 18 p2947 N84-28682

LIDE, D. R., JR.
General review of numerical data bases 07 p1087 N84-17067

LIDIAK, E. G.
Lithological characterization of crystalline basement rock provinces of the interior of the United States
[NASA-CR-175180] 08 p1186 N84-17727
Application of Magsat lithospheric modeling in South America. Part 1: Processing and interpretation of magnetic and gravity anomaly data
[E84-10115] 13 p2005 N84-23008
Application of MAGSAT to lithospheric modeling in South America. Part 2: Synthesis of geologic and seismic data for development of integrated crustal models
[E84-10126] 15 p2355 N84-25128
Correlation of tectonic provinces of South America and the Caribbean region with MAGSAT anomalies 15 p2355 N84-25130
Satellite elevation magnetic and gravity models of major South American plate tectonic features 15 p2355 N84-25131
Relation of MAGSAT anomalies to the main tectonic provinces of South America 15 p2356 N84-25137

LIDSKY, L. M.
Plasma dynamics 22 p3683 N84-33354

LIE, K.
Numerical simulation of the velocity records from the SRI grout spheres experiment
[AD-A131267] 01 p0096 N84-10627

LIEBE, H. J.
Estimates of millimeter wave attenuation for 18 United States cities
[PB83-240630] 02 p0211 N84-11381
Atmospheric millimeter wave propagation model
[PB84-143494] 11 p1645 N84-20754
Millimeter wave attenuation in moist air: Laboratory measurements and analysis
[AD-A139502] 14 p2140 N84-23832
An atmospheric millimeter wave propagation model
[AD-A139154] 14 p2176 N84-24033

LIEBENBERG, D. H.
Equation of state of fluid NH-3 from P-V-T and ultrasound measurements to 12 kbar
[DE83-015913] 08 p1125 N84-17316

LIEBER, R. S.
The Score technique: An analytical approach for assessing the results of manufacturing reviews
[AD-P002838] 13 p2064 N84-23383

LIEBERMAN, E. S.
Thermally-sprayed active metal coatings for corrosion protection in marine environments
[AD-A140783] 17 p2624 N84-26795

LIEBERMAN, G. J.
On the use of replacements to extend system life
[AD-A132878] 05 p0690 N84-14532
Inspections with unknown detection probabilities
[AD-A136890] 10 p1573 N84-20310

LIEBERMAN, H.
Design issues in parallel architectures for artificial intelligence
[AD-A142482] 20 p3278 N84-30809

LIEBERMAN, M. A.
Research on self-generated stochastic motion
[AD-A144093] 23 p3820 N84-34225

LIEBERMANN, H. H.
Rapidly solidified alloys made by chill block melt-spinning processes 18 p2937 N84-28625

LIEBERTZ, J.
Optically nonlinear materials for tunable UV-lasers
[BMFT-FB-T-84-133] 23 p3755 N84-33806

LIEBLEIN, E.
The NEBULA and MCF (Military Computer Family) standardization programs
[AD-P003531] 21 p3331 N84-31135

LIEBOWITZ, B.
Tornado Wind Energy Conversion System (TWECS) evaluation program
[PB83-227207] 01 p0103 N84-10669

LIEBOWITZ, H.
Vibration response of geometrically nonlinear elastic beams to pulse and impact loading
[NASA-CR-174495] 03 p0388 N84-12527
Determination of failure characteristics of materials and structures
[AD-A142310] 19 p3037 N84-29262

LIEBST, B. S.
Eigenspace design techniques for active flutter suppression 11 p1617 N84-20581

LIEDL, G. L.
Monochromator for continuous spectrum X-ray radiation
[DE84-014239] 23 p3751 N84-33781

LIEN, D. J.
The interstellar medium along the line of sight toward X Per 06 p0939 N84-16101

LIEN, M. K.
Develop real-time dosimetry concepts and instrumentation for long-term missions
[NASA-CR-171809] 22 p3599 N84-32791

LIENTZ, B. P.
Issues in software maintenance
[AD-A130622] 01 p0121 N84-10786

LIEPINS, G. E.
Fourier-Motzkin elimination as a technique for error localization
[DE84-003309] 09 p1379 N84-19009
Algorithms for error localization of discrete data
[DE84-014417] 22 p3641 N84-33089

LIEPINS, R.
Organotin piezo- and pyroelectric polymer films
[DE83-009903] 02 p0201 N84-11306
Soluble polyacetylenic and polyaromatic polymers and method of making the same
[DE84-014314] 23 p3725 N84-33607

LIEPMANN, H. W.
Chemical reactions in turbulent mixing flows, revision
[AD-A133874] 05 p0647 N84-14258

LIETZKE, A. F.
Design and fabrication of a surface conversion negative ion source and an 80 keV pre-accelerator
[DE84-006753] 13 p2045 N84-23269

LIETZKE, M. H.
Sodium-sulfate solubilities in high-temperature (250 to 3740C) salt and acid solutions
[DE83-015813] 02 p0191 N84-11241

LIEUTENANT, J. L.
Wave fronts to infinity of real analytic functions 22 p3634 N84-33031

LIEWALD, M.
Initial graphics exchange specification test library, version 1.3
[PB84-102144] 08 p1214 N84-17922

LIFSHITS, Y. B.
Interaction of turbulent boundary layer and upward density jump at transsonic stream velocities 17 p2648 N84-26937

LIGARE, M.
Atomic resonance and scattering 22 p3681 N84-33339

LIGHT, R. W.
Plasma-initiated laser deposition of polycrystalline and monocrystalline silicon films
[DE84-005527] 13 p1996 N84-22953

LIGHTFOOT, E.
Stresses round a circular hole in a uniform plate subject to hydrostatic compression, under various conditions of support, in plane stress and plane strain
[OUEL-1497/83] 12 p1827 N84-21910

LIGHTFOOT, F. M.
Achieving the benefits of modular avionics design
[AD-P003562] 21 p3336 N84-31167

LIGHTMAN, A. J.
Laser diagnostic development and measurement and modeling of turbulent flowfields of jets and wakes. Part 1: Two-dimensional laser Doppler anemometer studies of isothermal flowfield in a ducted centerbody combustor
[AD-A134691] 08 p1158 N84-17542

LIGRANI, P., M.
Introduction to turbulent shear flows 06 p0837 N84-15449

LIGTERINGEN, H.
West breakwater-Sines (Portugal). Overview of rehabilitation and synthesis of project
08 p1194 N84-17786
West breakwater-Sines (Portugal): Study of armor stability
08 p1194 N84-17788
LIGTHART, L. P.
Spherical propagation models for multipath-propagation predictions
15 p2324 N84-24956
LIJEWSKI, L. E.
Experimental aerodynamic characteristics of missiles with square cross sections
[AD-A132278] 04 p0489 N84-13215
LIKENS, W. C.
Impact of LANDSAT MSS sensor differences on change detection analysis
20 p3212 N84-30408
LIKHACHEV, V. A.
Generation of reactive stresses in TiNi alloy
24 p3875 N84-34556
LIKHACHEVA, O. A.
Results of psychophysiological study of Videoton terminal operators
21 p3454 N84-31919
LILE, D. L.
Furnace transient anneal process and apparatus
[AD-D011048] 19 p3002 N84-29027
LILEEV, A. S.
Phase transformations and coercive force of alloys based on the compound SmCo5
[BLL-M-35117-(5828.4)] 01 p0040 N84-10255
LILIEN, L. T.
Integrity in database systems
11 p1747 N84-21400
LILJESTRAND, H. M.
Chemical composition of acid precipitation in Texas, volume 1
[DE84-900411] 07 p1027 N84-16659
LILLEY, D. E.
Experimental study of the separating confluent boundary-layer. Volume 2: Experimental data
[NASA-CR-166018] 11 p1600 N84-20481
LILLEY, D. G.
Investigations of flowfields found in typical combustor geometries
11 p1611 N84-20544
LILLEY, J. R.
Polar code development
[AD-P002122] 16 p2524 N84-26208
LILLEY, R. W.
Processor-controlled timing module for LORAN-C receiver
[NASA-CR-175424] 11 p1604 N84-20504
LILLIE, A. F.
Space reactor system and subsystem investigations: Assessment of technology issues for the reactor and shield subsystem, SP-100 Program
[DE84-001566] 04 p0603 N84-13979
LILLY, W. D.
Chemical reactions and molecular aggregation in cryogenic whole air sample matrices
[AD-A137879] 11 p1682 N84-20977
LIM, H. S.
Long life nickel electrodes for a nickel-hydrogen cell: Cycle life tests
23 p3739 N84-33698
LIM, J.
A fast, programmable hardware architecture for spaceborne SAR processing
07 p0989 N84-16409
LIM, J. S.
Digital signal processing
22 p3684 N84-33357
LIMA, I. C. D.
The 2-D impurity states associated with inversion layers
[INPE-3081-PRE/493] 16 p2559 N84-26417
LIMA, U. M. B.
The compression of digital imagery by transformation
[INPE-2893-PRE/412] 22 p3639 N84-33073
LIMAYE, S. S.
Morphology and movements of polarization features on Venus
[NASA-CR-166464] 08 p1245 N84-18137
LIMEBEER, D. J. N.
Laboratory measurements of subsynchronous resonance
[RL-8645] 11 p1667 N84-20877
LIN, C. C.
Collisional excitation and radiation of atoms and molecules
[AD-A134093] 05 p0743 N84-14881
Boundary layer thermal stresses in cross-ply composite laminates
24 p3958 N84-35057
LIN, C. L.
The research on short backfire antenna
[AD-A137209] 10 p1485 N84-19712
Photon correlation spectroscopy and applications
22 p3683 N84-33352
LIN, D. L.
Study of e-beam propagation in the ionosphere and magnetosphere
[AD-A142206] 19 p3054 N84-29380
LIN, E. C.
Electronic-relaxation processes in polyatomic molecules aut 01Lim, Edward C.
[DE83-008738] 01 p0144 N84-10945
LIN, E. I. H.
Saltless solar pond
[NASA-CASE-NPO-15808-1] 24 p3916 N84-34792
LIN, F. C. H.
Rediflow multiprocessing
[DE84-003194] 12 p1884 N84-22282
LIN, F. L. C.
Range-Doppler Moving Target Indicator (MTI) analysis and assessment
[AD-A139579] 14 p2141 N84-23836
LIN, H. C.
Endochronic theory of dynamic viscoplasticity
[DE83-017531] 03 p0390 N84-12546
LIN, J. C.
ACOSS eleven (Active Control Of Space Structures), volume 1
[AD-A135675] 09 p1273 N84-18311
Drag of two-dimensional small-amplitude symmetric and asymmetric wavy walls in turbulent boundary layers
[NASA-TP-2318] 16 p2486 N84-25944
LIN, J. T.
Resonance fluorescence of many interacting adatoms at a metal surface
[AD-A129866] 01 p0036 N84-10239
Resonance fluorescence of a two-level atom near a metal surface
[AD-A130277] 01 p0141 N84-10928
Laser-induced molecular dynamics: Rate processes in the gas phase and at solid surfaces
[AD-A134426] 07 p1072 N84-16962
Theory of laser-induced surface chemistry with applications to microelectronics and heterogeneous catalysis
[AD-A141832] 19 p2989 N84-28938
Airborne wind measurements at Cape Blanco, Oregon
[DE84-013662] 21 p3448 N84-31880
LIN, M. C.
Statistical analysis of turbulence data from the NASA Marshall Space Flight Center atmospheric boundary layer tower array facility
[NASA-CR-3737] 04 p0566 N84-13730
Moessbauer spectroscopy study of amorphous Fe67B11Au2 ribbon and its crystallization products
[DE83-018091] 06 p0924 N84-16010
Shock-initiated decomposition of nitramines with laser diagnositcs
21 p3372 N84-31401
LIN, P. C.
Construction and evaluation of a flow test stand
[PB84-201581] 22 p3615 N84-32906
LIN, P. E.
Fitting a multiple regression function
[AD-A133482] 06 p0905 N84-15874
LIN, P. T.
NASTRAN analysis of nuclear effects on helicopter transparencies
[AD-P003234] 17 p2597 N84-26647
LIN, R. P.
High resolution X- and gamma-ray spectroscopy of solar flares
[NASA-CR-173150] 07 p1092 N84-17103
High resolution X- and gamma-ray spectroscopy of cosmic X-ray sources
[NASA-CR-175368] 08 p1246 N84-18148
The ISPM experiment for spectral, composition and anistropy measurements of charged particles at low energie
09 p1261 N84-18235
LIN, S.
Automatic-repeat-request error control schemes
[NASA-CR-170605] 02 p0207 N84-11353
On the probability of undetected error for the maximum distance separable codes
[NASA-CR-170604] 02 p0279 N84-11829
Permanence analysis of a concatenated coding scheme for error control
[NASA-CR-175345] 07 p0991 N84-16422
Performance analysis of the word synchronization properties of the outer code in a TDRSS decoder
[NASA-CR-173551] 15 p2319 N84-24921
Fast decoding techniques for extended single-and-double-error-correcting Reed Solomon codes
[NASA-CR-173617] 16 p2543 N84-26325
BCH codes for large IC random-access memory systems
[NASA-CR-166549] 17 p2751 N84-27460
Reed Solomon codes for error control in byte organized computer memory systems
[NASA-CR-173803] 19 p3080 N84-29542
Probability of undetected error after decoding for a concatenated coding scheme
[NASA-CR-173837] 21 p3470 N84-31992
LIN, S. B.
Properties of UV-cured polyurethane acrylates: Effect of polyol type and molecular weight
[AD-A143176] 22 p3559 N84-32537
Properties of UV-curable polyurethane acrylates: Effect of reactive diluent
[AD-A143241] 22 p3559 N84-32540
LIN, S. C.
A compact optical pulse compressor with computer-generated holographic masks for radar applications
[AD-A132152] 04 p0522 N84-13430
Study of avalanche discharge lasers
[AD-A141203] 18 p2846 N84-28074
LIN, S. F.
Kinetic-elastic approach for time-dependent rheological data on slurry fuels and polymers
[AD-A141210] 18 p2821 N84-27911
LIN, S. J.
Further development of a method for computing three-dimensional subsonic viscous flows in turbofan lobe mixers
[NASA-CR-168304] 05 p0679 N84-14462
LIN, S. S. C.
Optical signal processing for surveillance
[AD-A140957] 18 p2932 N84-28591
LIN, W. H.
Viscous effect on acoustic scattering by elastic solid cylinders and spheres
[DE83-014271] 01 p0140 N84-10920
A conical scan radiometer for an airplane mission
10 p1534 N84-20050
Aerosol detection by polarization measurements
10 p1535 N84-20057
LIN, W. K.
Distributed database control and allocation. Volume 1: Frameworks for understanding concurrency control and recovery algorithms
[AD-A138891] 14 p2203 N84-24223
Distributed database control and allocation. Volume 2: Performance analysis of concurrency control algorithms
[AD-A138892] 14 p2203 N84-24224
Distributed database control and allocation. Volume 3: Distributed database system designer's handbook
[AD-A138893] 14 p2203 N84-24225
LIN, X. B.
Symbolic dynamics and nonlinear semiflows
[AD-A143487] 22 p3646 N84-33117
LINCE, J. R.
Electron localization and superconductivity of very thin epitaxially grown ag films on ge(001)
[AD-A143469] 22 p3663 N84-33224
LINCHEVSKII, V. V.
Features of determination of low concentrations of oxygen in steel by the electrochemical method
[BLL-M-35212-(5828.4)] 01 p0041 N84-10282
LINCOLN, J. H.
An extended real-time microwave airplane position system
24 p3850 N84-34419
LINCOLN, K. A.
Techniques for avoiding discrimination errors in the dynamic sampling of condensable vapors
[NASA-TM-85886] 07 p1007 N84-16527
LIND, A. R.
Experiments on factors that influence muscular function in man
[AD-A133926] 06 p0888 N84-15771
Cardiovascular and respiratory responses to muscular activity during immersion in water at different temperatures
[AD-A138894] 14 p2185 N84-24094
LIND, D. L.
Interstellar-gas experiment (A0038)
15 p2275 N84-24660
LIND, J.
Formation of free hydrogen during radiolysis in a bed of clay
[DE83-017724] 03 p0350 N84-12275
LIND, M.
Matrix approach for testing mirrors, part 1
[DE83-009398] 02 p0242 N84-11585
LIND, M. D.
Growth of crystals from solutions in low gravity (A0139A)
15 p2270 N84-24634
LIND, R. C.
Phase conjugate optical resonator
[AD-A136071] 09 p1390 N84-19077
Phase conjugate optics
[AD-A141960] 20 p3299 N84-30951
LINDALE, E.
Life test performance of a Philips rhombic-drive refrigerator with bellows seals
06 p0819 N84-15341

LINDBERG, H. E.
Dynamic pulse buckling, theory and experiment. Handbook
[AD-A130910] 01 p0095 N84-10621

LINDBERG, L.
Spontaneous transfer of magnetically stored energy to kinetic energy by electric double layers
[TRITA-EPP-83-05] 02 p0297 N84-11949

LINDBERG, L. J.
High temperature ceramic interface study
[NASA-CR-174728] 23 p3836 N84-34331

LINDBERG, P.
Informatics 1983: Signal processing
[FOA-A-30033-E] 15 p2321 N84-24932

LINDBERG, R. E.
Actuator placement considerations for the control of large space structures 02 p0185 N84-11199

LINDBLAD, I.
The effect on acoustic radiation of mutual interaction between a line vortex and an airfoil
[FFA-TN-1983-45] 09 p1367 N84-19058
A description of two methods for calculation of low frequency wind turbine noise, including applications for the Swedish prototype Wind Energy Conversion System (WECS) Maglarp
[FFA-TN-1983-31] 18 p2876 N84-28262

LINDE, C.
Linguistic methodology for the analysis of aviation accidents
[NASA-CR-3741] 06 p0784 N84-15135

LINDE, L.
What's domain skill? Frames in information seeking
[FOA-C-53014-H2] 15 p2417 N84-25515

LINDE, M.
Gust structure and gust statistics. Results from an analysis of atmospheric turbulence measurements by using conditional sampling technique
[FFA-TN-1983-26] 03 p0412 N84-12696

LINDELL, I. V.
Complex vector algebra in electromagnetics
[REPT-S-125] 09 p1304 N84-18526
Elements of dyadic algebra and its application in electromagnetics
[REPT-S-126] 09 p1304 N84-18527
Dielectrically loaded corrugated waveguide: Variational analysis of a nonstandard eigenproblem
[REPT-S-131] 09 p1305 N84-18528
Variational methods for nonstandard eigenvalue problems in waveguide and resonator analysis
[REPT-S-128] 09 p1379 N84-19012
Transversely anisotropic optical fiber: Variational analysis of a nonstandard eigen problem
[REPT-S-133] 09 p1390 N84-19060
Asymptotic analysis of weakly guiding anisotropic optical fibers
[REPT-S-136] 09 p1390 N84-19061
Exact image theory for the Sommerfeld half-space problem with a vertical magnetic dipole
[REPT-S-142] 10 p1572 N84-20301
Exact image theory for the Sommerfeld half-space problem with a vertical electric di-pole
[REPT-S-144] 15 p2320 N84-24826

LINDEMANN, F. A.
The calculation of molecular Eigen-frequencies
[NASA-TM-77759] 24 p3961 N84-35086

LINDEN, D.
Changes in TM response of soil scenes due to tillage, residue, and weathering 23 p3766 N84-33874

LINDEN, K. J.
Development of long wavelength semiconductor diode lasers near 28 microns for use in infrared heterodyne spectrometers
[NASA-CR-175253] 22 p3600 N84-32602

LINDENMEIER, H. K.
Interaction of antennas with masts under special consideration of the sensitivity and nonlinear effects in ship borne receiving systems 03 p0384 N84-12371

LINDENMEYER, P. H.
Characterization of PMR polyimide resin and prepreg
[NASA-CR-168217] 11 p1636 N84-20695

LINDER, H.
DBMS as a tool for project management
11 p1749 N84-21416

LINDER, T. J.
Range safety display system upgrade
[AD-A133789] 05 p0642 N84-14225

LINDESAY, J. V.
Minimal unitary (covariant) scattering theory
[DE83-014896] 03 p0435 N84-12849

LINDGREN, T.
Programs for handling Raster Chain (RC) coded images
[FOA-C-30351-E1] 15 p2390 N84-25341

LINDHOLM, E.
Physiological assessment of aircraft pilot workload in simulated landing and simulated hostile threat environments
[AD-A140469] 16 p2538 N84-26297

LINDHOLM, F. A.
Surface and allied studies in silicon solar cells
[NASA-CR-173761] 19 p3049 N84-29351

LINDHOLM, R.
Agricultural waste water reverse osmosis pretreatment
[PB84-153543] 17 p2725 N84-27347

LINDHOUT, J. P. F.
Three-dimensional boundary layer calculations on wings, starting from the fuselage
[NLR-MP-82060-U] 09 p1317 N84-18603
A quasi-simultaneous calculation method for strongly interacting viscous flow around an infinite swept wing
[NLR-MP-83001-U] 17 p2601 N84-26672

LINDHOUT, P.
Thermal design of the Giotto spacecraft
10 p1441 N84-19412

LINDLE, D. W.
Inner-shell photoemission from atoms and molecules using synchrotron radiation
[DE84-006624] 14 p2223 N84-24339

LINDLOHR, W.
Physical geodesy 10 p1520 N84-19950

LINDMAN, E.
The Z-pinch program at Imperial College
10 p1583 N84-20372

LINDNER, H.
Development of silicon nitride gas turbine components, phase 2
[BMFT-FB-T-83-322] 15 p2262 N84-24591

LINDQUIST, A.
Algorithms, modeling and estimation for linear systems
[AD-A135134] 08 p1218 N84-17951

LINDQUIST, T. E.
GENIE: A computer-based task for experiments in human-computer interaction
[AD-A137473] 10 p1553 N84-20181
A specification technique for the common APSE (Ada programming support environments) interface set
[AD-A140889] 17 p2754 N84-27479

LINDQVIST, E.
Active sound reduction: A study of recent developments and some future possibilities
[F83-06] 20 p3292 N84-30899

LINDQVIST, P.
F-harmonic measure in space
04 p0576 N84-13794

LINDQVIST, P. A.
The potential of ISEE in different plasma environments 08 p1116 N84-17257
The DC electric field in space: Direct measurements and inferences from cold plasma drifts
08 p1117 N84-17264

LINDSAY, D. D.
Heat-storage materials for IRCM
[AD-A133110] 06 p0917 N84-15961

LINDSAY, J.
Demonstration of angular anisotropy in the output of Thematic Mapper
[E84-10095] 10 p1522 N84-19965

LINDSAY, R. W.
METLIB-2: A program library for calculating and plotting atmospheric and oceanic fields
[PB84-205434] 21 p3450 N84-31890

LINDSEY, G. D.
Lessons learned from FY82 US Army aviation mishaps
[AD-A131725] 03 p0328 N84-12137
Investigation, reporting and analysis of US Army aircraft accident 06 p0775 N84-15077

LINDSEY, H. J.
Robust ABLUE's (Asymptotically Best Linear Unbiased Estimators) for location and scale parameter estimation
[AD-A130752] 01 p0132 N84-10867

LINDSEY, R. A.
General Purpose Bus Interface Unit (GPBIU) system test software design
[AD-A138005] 12 p1770 N84-21543

LINDSEY, W. C.
User manual of the CATSS system (version 1.0) communication analysis tool for space station
[NASA-CR-171728] 08 p1142 N84-17431
Satellite Data Transmission (SDT) requirement
[NASA-CR-175231] 15 p2319 N84-24920
Autonomous Integrated Receive System (AIRS) requirements definition. Volume 1: Executive summary
[NASA-CR-175261] 22 p3575 N84-32646
Autonomous Integrated Receive System (AIRS) requirements definition. Volume 2: Design and development
[NASA-CR-175262] 22 p3576 N84-32647
Autonomous Integrated Receive System (AIRS) requirements definition. Volume 3: Performance and simulation
[NASA-CR-175263] 22 p3576 N84-32648

LINDVALL, T.
On coupling of renewal processes with use of failure rates
[CTH-MATH-1983-27] 17 p2760 N84-27530

LINDZEN, R. S.
The growth, propagation and decay of global scale Rossby waves during FGGE 12 p1654 N84-22080

LINEHAN, M.
Bidirectional fiber optic cable adapter
[AD-A133371] 06 p0824 N84-15370

LINETSKII, Y. L.
Grain size in sintered samarium-cobalt alloys and their coercive force
[BLL-M-35406(5826.4)] 09 p1281 N84-18365

LINFORD, R. K.
Translation of field-reverse configurations in the FRX C/T experiment
[DE84-007489] 14 p2230 N84-24376

LINFORS, G.
Effectiveness of a device for detection of bacteriological aerosols; improvements in standardization and sensitivity in the laboratory
[FOA-C-40175-B2] 10 p1546 N84-20132

LING, A. C.
Optimization of aircraft seat cushion fire blocking layers
[NASA-TM-85430] 01 p0006 N84-10037

LING, C. H.
A comparison of numerical results of Arctic Sea ice modeling with satellite images 14 p2165 N84-23969

LING, P.
Annealing of interstitial loops in arsenic implanted silicon
[DE84-000384] 05 p0755 N84-14953

LING, Z.
The calculation of the axisymmetrical subsonic viscous flow field of annular diffusers with prewhirling current at the inlets
[AD-A144534] 24 p3901 N84-34702

LINGE, M.
Geometrical transformation of binary images
[FOA-C-30342-E1] 15 p2397 N84-25380

LINGENFELTER, R. E.
Nuclear processes in the jets of SS433
[NASA-TM-86109] 16 p2582 N84-26560

LINGLE, C. S.
A numerical model of interactions between a polar ice stream, the ocean and the solid earth: Application to ice stream E, West Antarctica 11 p1689 N84-21013

LINHART, H.
New data on long term stabilization of polyethylene for telecommunication wire insulation
11 p1721 N84-21227

LINK, J.
Fixity of members embedded in concrete
[AD-A138862] 13 p1974 N84-22810

LINK, J. N.
Accuracy estimate for radar cross section measurements of targets modelled by multiple independent scatterers in constant clutter
[AD-A138075] 12 p1806 N84-21775

LINK, L. E.
High value target modeling for tactical decision aids
[AD-P002953] 14 p2199 N84-24193

LINK, P. A.
New quality assessment procedure for exchange area cable transmission parameters 11 p1720 N84-21218

LINKAITYTE-WEISS, E.
Vibrational energy transfer at a surface in reacting systems. Decomposition of azomethane
[AD-A137966] 12 p1901 N84-22381

LINKERT, L. D.
The ISPM dust experiment 09 p1262 N84-18239

LINKIN, V.
Fourier spectrometry research on Venera-15, -16
12 p1775 N84-21582

LINKOUS, C. A.
Use of single point contact electrodes to understand porous electrode behavior on solid electrolytes
11 p1742 N84-21365
Electro-optical switching and memory display device
[DE84-014227] 23 p3744 N84-33732

LINLEY, L. J.
Performance criteria guideline for three explosion protection methods of electrical equipment rated up to 15,000 volts AC
[NASA-TM-85528] 17 p2640 N84-26887

LINLOR, W. I.
Baffle system employing reflective surfaces
[NASA-TM-84406] 04 p0604 N84-13985
Optical system with reflective baffles
[NASA-CASE-ARC-11502-1] 16 p2557 N84-26400

LINN, C.
Acoustical measurements of DOE/NASA MOD-0 wind turbine at Plum Brook Station, Ohio
[DE83-011971] 02 p0242 N84-11584

LINN, W. S.
Short-term human respiratory effects of nitrogen dioxide: Determination of quantitative dose-response profiles. Phase 1: Exposure of healthy volunteers to 4 PPM NO/sub 2
[PB84-132299] 10 p1548 N84-20148

LINNEMAN, J.
Trigger systems which could operate at a luminosity of 10/sup 33 cm(-2) to sec/sup -1
06 p0911 N84-15918

LINSCOTT, B. S.
Large, horizontal-axis wind turbines
[NASA-TM-83546] 17 p2722 N84-27327

LINSKENS, M. C.
Development of a consensus standard for determining thermal performance of high-concentration-ratio solar collectors
[DE83-005129] 06 p0872 N84-15676

LINSKY, J. L.
Measurements of chromospheric densities and geometrical extensions of late-type giant and super-giant stars
[NASA-CR-175236] 07 p1089 N84-17079
Corona models tested with IUE and Einstein observations 24 p3970 N84-35139
IUE observations of BY Draconis 24 p3975 N84-35176
Coordinated IUE and ground-based observations of active stars: Flare events on YZ CMi, V 1005 ORI, AD Leo and AR Lac 24 p3975 N84-35177
Rotational modulation of spots and plages on RSCVn stars 24 p3978 N84-35196
Models for the active and quiescent regions on the RS CVN-type system 2 Pegasi (HD 224085) 24 p3978 N84-35197

LINSON, L. M.
The importance of neutrals, transient effects, and the Earth's magnetic field on sheath structure
[AD-P002119] 16 p2524 N84-26205

LINT, J.
Phthalocyanine derivatives specifically designed for fabrication of organic semiconductor gas sensors
[AD-A130611] 01 p0083 N84-10540

LINTERN, G.
Part-task training of tracking in manual control
[AD-A138346] 12 p1868 N84-22175

LINTON, R. C.
Atomic-oxygen stimulated outgassing (A0034)
15 p2271 N84-24635

LINTON, T. W.
Poloidal field system design for the ZT-H reversed field pinch experiment
[DE84-004328] 10 p1586 N84-20396
Toroidal magnetic field system for 2-MA reversed-field pinch experiment
[DE84-004322] 10 p1586 N84-20399

LINVILL, D. F.
Use of digitized radar and microcomputers to forecast local floods and irrigation needs
[PB84-105566] 08 p1192 N84-17767

LINZ, A.
Spectroscopic evaluation of Nd(3+):CAMGAR and H sub o(3+):YLF as 0.94 micrometer lasers
[AD-A137610] 11 p1662 N84-20845

LIONS, P. L.
Differential games, optimal control and directional derivatives of viscosity solutions of Bellman's and Isaacs' equations
[AD-A137939] 11 p1718 N84-21209
On pairs of positive solutions for a class of semilinear elliptic problems
[AD-A141504] 19 p3084 N84-29574

LIOU, K. N.
Studies on light scattering and absorption properties of ice clouds for visible and infrared laser wavelengths
[AD-A140528] 16 p2557 N84-26405

LIOULIS, I. S.
Design and analysis of Coordinated Bank-To-Turn (CBTT) autopilots for Bank-To-Turn (BTT) missiles
[AD-A140103] 15 p2280 N84-24698

LIOUS, F. T.
Metal oxide anodes for the photoelectrochemical generation of oxygen
[DE84-004168] 10 p1456 N84-19511

LIOZNER, A. L.
Modelling of multi-signal immobilized immunogens
17 p2741 N84-27401

LIPATOV, N. I.
Waveguide CO2 laser with 7.5 W power rating
21 p3487 N84-32098

LIPFERT, F. W.
Urban and local source effects on precipitation chemistry
[DE84-011848] 21 p3436 N84-31803

LIPINSKA, N.
Storage of energy in magnetic field of superconductive coils
[AD-A131898] 03 p0403 N84-12636

LIPINSKI, B.
Preliminary investigations of 360 kJ plasma focus device, part 2
10 p1581 N84-20359

LIPINSKI, W.
Storage of energy in magnetic field of superconductive coils
[AD-A131898] 03 p0403 N84-12636

LIPKIN, H. J.
Multiquark exotics
[DE83-017958] 04 p0601 N84-13964

LIPKIN, J.
Piezometer probe technology for geotechnical investigations in coastal and deep-ocean environments
[AD-P002689] 11 p1659 N84-20824

LIPMAN, R. R.
NASTEK: Interactive display of NASTRAN-generated plots
[AD-A138831] 13 p2001 N84-22983
Finite element prediction of acoustic scattering and radiation from submerged elastic structures
22 p3610 N84-32874

LIPOVSCAK, B.
Cloud seeding with TG-10 rockets
18 p2888 N84-28329
Some radar measurements in the North Adriatic Sea
18 p2888 N84-28330
Planned radar network in hail suppression
18 p2888 N84-28331

LIPP, G.
The mechanics of bridging cracks
[BLL-T6144/LRST652/83(9022.048)]
01 p0057 N84-10369

LIPP, L. J.
Design considerations of platens for vibration testing
[AD-A135815] 09 p1332 N84-18699

LIPPENS, C.
A sample performance of the grille spectrometer aboard Spacelab
[AERONOMICA-ACTA-A-281-1984]
16 p2494 N84-26003
Trace constituants measurements deduced from spectrometric observations onboard Spacelab
[AERONOMICA-ACTA-A-286-1984]
20 p3239 N84-30565

LIPPIATT, T. F.
A development of logistics management models for the Space Transportation System
[NASA-CR-173504] 14 p2113 N84-23664

LIPPITT, M. W., JR.
Development of passive diver thermal protection system
[AD-A130685] 01 p0117 N84-10762

LIPPMANN, M. J.
Generating capacity of the Heber geothermal field, California
[DE84-006883] 13 p2009 N84-23030

LIPPNER, G.
POPSAT: A candidate satellite system for solid Earth applications and sciences. Preliminary feasibility study. Volume 1: Summary
[ESA-CR(P)-1882-VOL-1] 17 p2614 N84-26735
POPSAT: A candidate satellite system for solid Earth applications and sciences. Preliminary feasibility study. Volume 2: Development program
[ESA-CR(P)-1882-VOL-2] 17 p2614 N84-26736

LIPPS, A. W.
Operational and functional description of AERA 1.01
[AD-A136831] 10 p1425 N84-19322
Operational and functional description of the AERA packages
[AD-A136852] 10 p1426 N84-19326

LIPSCHUTZ, R. C.
Profs' Doppler radar data processing system. Part 1: Design and implementation with application to NEXRAD algorithms
[PB84-165224] 14 p2182 N84-24073

LIPSCOMB, G. G.
Continuum theory for fiber suspensions
[DE84-012258] 21 p3402 N84-31584

LIPSCOMBE, D. R.
Exposure to space radiation of high-performance infrared multilayer filters and materials technology experiments (A0056) 15 p2277 N84-24678

LIPSETT, M. J.
Direct biological effects of increased atmospheric carbon dioxide levels
[PB83-224360] 01 p0115 N84-10749

LIPSHITZ, A.
Dilution jets in accelerated cross flows
[NASA-CR-174717] 19 p2966 N84-28794

LIPSON, S. G.
Measurement of atmospheric transmission over long paths in the infrared spectral region
[AD-A139619] 15 p2368 N84-25209

LIPSZTAJN, M.
Increased electrochemical window in ambient temperature neutral ionic liquids
[AD-A139194] 14 p2122 N84-23717

LIPTON, R. J.
Princeton VLSI project
[AD-A136551] 09 p1307 N84-18546
Princeton VLSI project
[AD-A136552] 09 p1307 N84-18547
Princeton VLSI project
[AD-A136553] 09 p1308 N84-18548
Princeton VLSI project
[AD-A140588] 17 p2663 N84-26986
Research into self-timed VLSI circuits
[AD-A141871] 19 p3014 N84-29103
Princeton VLSI project
[AD-A142959] 21 p3391 N84-31521

LIROVA, S. A.
Effect of cyclic changes in cultivation conditions of growth kinetics and physiological properties of yeasts
22 p3629 N84-32998

LISAGOR, W. B.
Metallurgical characterization of the fracture of several high strength aluminum alloys
[NASA-TP-1086] 02 p0189 N84-11230

LISANTI, C.
When is an internal rotation a vibration?
[AD-A132974] 05 p0744 N84-14890

LISHENKO, S. V.
Fractionation of chemical elements at ocean-atmosphere interface 17 p2698 N84-27189

LISIENKO, V. G.
Determining the coefficient of heat transfer during the filtration of a heat-carrying agent through a coil
[BLL-M-35601-(5828.4)] 19 p3020 N84-29146

LISKE, C.
Small wind systems field evaluation. Volume 1: Executive summary and program description
[DE84-006916] 12 p1844 N84-22023
Small wind systems field evaluation. Volume 2: Institutional issues
[DE84-006913] 12 p1844 N84-22024

LISOWSKI, R. J.
Optimizing parameters and controls for maneuvering flexible structures
[AD-A143726] 23 p3701 N84-33457

LISSANDRE, M.
A Specification Assistance System (SAS)
05 p0721 N84-14731

LISSAUER, I. M.
Movement of satellite-tracked buoys in the Beaufort sea (1979-1981)
[AD-A133159] 07 p1041 N84-16748

LISSAUER, J. J.
Dynamics of Saturn's rings 02 p0307 N84-12017

LIST, U. H.
Nonlinear prediction of head movements for helmet-mounted displays
[AD-A136590] 10 p1555 N84-20192

LISTMANN, H.
Modular Optoelectronic Multispectral Scanner (MOMS). Digital image storage
[MBB-UA-686-82-OE] 05 p0746 N84-14901

LITINSKIY, V. M.
Possible sources of irregular geomagnetic variations
17 p2704 N84-27223
Physical nature of geomagnetic microbays
17 p2706 N84-27232

LITMAN, D.
Discourse and problem solving
[AD-A131003] 02 p0277 N84-11818

LITOVCHENKO, V. V.
Hemodynamic reactions to positive intrathoracic pressure at +G sub z accelerations
02 p0259 N84-11696

LITSTER, J. D.
Optical spectroscopy of disordered materials and X-ray scattering from surfaces 22 p3682 N84-33345

LITT, M. H.
Innovative concepts for photovoltaic applications
[DE84-005247] 11 p1674 N84-20923

LITTELL, H. E., JR.
Development of lightweight commercial aircraft windshields with new high strength glasses
[AD-P003190] 17 p2590 N84-26603

LITTKE, W.
Protein single crystal growth under microgravity
23 p3805 N84-34124

LITTLE, E. M.
Observations of ramped current operation in ZT-40M
[DE84-015076] 23 p3829 N84-34286
LITTLE, J. K.
Response of a small-turboshaft-engine compression system to inlet temperature distortion
[NASA-TM-83765] 23 p3694 N84-33414
LITTLE, J. R.
Water resources data for South Dakota, water year 1982
[PB84-117175] 09 p1339 N84-18748
LITTLE, R. K.
Tracking with intermittent radar coverage. 1: Interruptions after each collected frame of imagery
[AD-P003322] 18 p2910 N84-28458
Tracking with intermittent radar coverage. 2: Interruptions after two or more consecutively-collected frames of imagery
[AD-P003323] 18 p2910 N84-28459
LITTLE, R. W.
Core graphics user's manual
[DE83-013206] 02 p0274 N84-11791
CORE graphics users manual, revision 1
[DE84-004235] 11 p1708 N84-21136
LITTLEFIELD, R. G.
Report on active and planned spacecraft and experiments
[NASA-TM-85455] 02 p0163 N84-11187
LITTLEFIELD, R. J.
Using the glyph concept to create user-definable display formats
[DE83-013831] 01 p0124 N84-10806
Developing computer-graphics programs for specialized applications
[DE83-016181] 04 p0581 N84-13836
Basic geometric algorithms for use with graphic input
[DE84-013256] 22 p3642 N84-33090
LITTLEWOOD, I. M.
Experimental determination of transport coefficients in CO2 laser gas mixtures
[DE83-013638] 01 p0088 N84-10572
LITTLEWOOD, M. I.
SIRE: An integrated reliability and cost model for the aerospace industry
[PNR-90192] 13 p1999 N84-22972
LITVIN, F. L.
Special cases of friction and applications
[NASA-TM-83523] 02 p0229 N84-11500
LIU, C. C.
The preparation and properties of porous glass-polymer composite 06 p0808 N84-15261
LIU, C. H.
The effect of turbulent atmosphere on backscattered waves 06 p0870 N84-15664
Navier-Stokes calculations for the vortex of a rotor in hover
[NASA-TM-85894] 15 p2255 N84-24540
Interpretation of MST radar returns from clear air 17 p2683 N84-27085
LIU, C. M.
Numerical simulation of global ozone transport during stratospheric sudden warming 02 p0245 N84-11605
LIU, C. S.
High PRF HgBr laser life testing
[AD-A132660] 05 p0686 N84-14511
Nonlinear theory of lower hybrid current drive II
[DE84-007292] 15 p2410 N84-25469
LIU, C. T.
Segregation and domain structure in rapidly solidified Ni3Al
[DE83-017188] 04 p0504 N84-13306
Ductile aluminide alloys for high temperature applications
[DE84-011037] 20 p3156 N84-30038
Ductile aluminide alloys for high temperature applications
[DE84-014317] 23 p3719 N84-33575
LIU, D. C.
Microwave monolithic integrated circuit development for future spaceborne phased array antennas
[NASA-TM-83518] 04 p0517 N84-13399
LIU, D. H.
An assessment of the accuracy of orthotropic photoelasticity
[NASA-CR-3773] 10 p1516 N84-19924
LIU, F. C.
On dynamical formulation of a tethered satellite system with mass transport
[AD-A142312] 19 p2980 N84-28888
LIU, G. C.
Canonical solutions for unsteady flow fields
[NASA-TM-85812] 16 p2466 N84-25947
Calculation of vertical and ramp-assisted takeoffs for supersonic cruise fighters
[NASA-TM-85818] 17 p2600 N84-26668
LIU, H. K.
Real time optical interferometric image addition and subtraction by wave polarization
[AD-A134125] 05 p0746 N84-14902
LIU, H. L.
Interpretation of near-source ground motion and implications 06 p0876 N84-15697
LIU, H. S.
Geodynamics of crustal deformation and seismotectonic block movements in central Europe 20 p3220 N84-30460
LIU, H. T.
Flow-visualization study of the MOD-2 wind-turbine wake
[DE83-014391] 01 p0080 N84-10523
LIU, H. W.
Literature survey on oxidations and fatigue lives at elevated temperatures
[NASA-CR-174639] 11 p1633 N84-20674
Crack tip field and fatigue crack growth in general yielding and low cycle fatigue
[NASA-CR-174686] 22 p3554 N84-32503
LIU, H. Y.
Electron-transfer kinetics of redox centers anchored to metal surfaces: Weak- versus strong-overlap reaction pathways
[AD-A139043] 13 p1956 N84-22718
Redox thermodynamics of surface-bound reactants. Illustrative behavior of Cobalt(3)/(2) macrobicyclic cage complexes
[AD-A139058] 13 p1957 N84-22723
Intramolecular electron transfer at metal surfaces. 3: Influence of bond conjugation on reduction kinetics of Cobalt (3) anchored to metal surfaces via thiophenecarboxylate ligands
[AD-A139066] 13 p2041 N84-23242
X-ray topographic methods and application to analysis of electronic materials 18 p2940 N84-28645
The prediction of electrochemical reactivities from contemporary theory: Some comparisons with experiment
[AD-A142406] 20 p3147 N84-29985
LIU, J.
Drift waves in rotating plasmas
[DE84-000391] 06 p0921 N84-15988
LIU, J. K.
The geologic study of Taiwan area following up the acquisition of Taiwan SLAR imagery 24 p3957 N84-35051
LIU, K.
Software conversion history of the Flight Dynamics System (FDS)
[NASA-CR-175257] 22 p3539 N84-32404
LIU, K. C.
Low-cycle fatigue behavior of oxygen-free high-conductivity copper at 3000C in high vacuum
[DE84-000725] 04 p0504 N84-13305
Localized magnetization arising from spin-dependent impurity potentials in the Wolff model
[AD-A133652] 05 p0742 N84-14871
Resonance fluorescence and photon trapping of two atoms on a metallic surface
[AD-A134512] 07 p1072 N84-16964
Laser-induced neutralization and negative-ion formation in surface scattering
[AD-A135907] 09 p1322 N84-18641
Negative-ion formation from surface scattering and the Anderson correlation energy U
[AD-A138390] 12 p1914 N84-22473
Fatigue behavior at 650 deg of 20 percent-cold-worked type 316 stainless steel irradiated at 550 deg C in the HFIR
[DE84-014269] 23 p3718 N84-33572
LIU, K. F.
Research in theoretical nuclear physics
[DE84-006976] 12 p1902 N84-22387
LIU, K. Y.
Pipelined digital SAR azimuth correlator using hybrid FFT-transversal filter
[NASA-CASE-NPO-15519-1] 24 p3893 N84-34651
LIU, M. K.
Statistical correlations of surface wind data: A comparison between a National Weather Service station and a nearby aerometric network
[PB83-237263] 02 p0257 N84-11680
LIU, R. W.
Analog fault diagnosis of large-scale electronic circuits
[AD-A133491] 06 p0830 N84-15400
LIU, R. Z.
Second order particle motion equations and linear chromaticity calculation in accelerator rings
[DE84-005895] 12 p1903 N84-22391
LIU, S. T.
Results from the NBS passive test building: A status report 16 p2514 N84-26135
LIU, T. C.
Shock tube study of the ignition and combustion of aluminum
[AD-A134035] 05 p0661 N84-14345
LIU, T. Y.
A mathematical simulation model of the CH-47B helicopter, volume 2
[NASA-TM-84351] 22 p3535 N84-32380
LIU, W. H.
High-level operations in nonprocedural programming languages
[AD-A143470] 22 p3640 N84-33078
LIU, W. T.
Observing ocean-atmosphere exchanges with space-borne sensors, appendix C 18 p2884 N84-28298
LIU, Y.
A nonstationary relaxation technique for solving the equations of gas dynamics 23 p3746 N84-33746
LIU, Z. M.
Four-valued logic star algorithm and their applications
[AD-P002370] 14 p2194 N84-24161
LIU, Z. Q.
A study of washout filters for a simulator motion base
[UTIAS-TN-246] 07 p0959 N84-16218
LIUBLIN, B. V.
Stark spectroscopy of hydrogen lines in turbulent plasma. 1: Low-frequency turbulence
[DE84-004443] 11 p1737 N84-21333
LIVACCARRI, R.
Evaluation of LANDSAT-D Thematic Mapper performance as applied to hydrocarbon exploration
[E84-10154] 19 p3038 N84-29275
LIVADA, B.
Boundary values of parameters and perspectives for the development of sensors for thermal imaging equipment
[AD-A137185] 11 p1732 N84-21297
LIVANOV, L. B.
Flights to asteroids with space vehicle maneuvers near Venus, Earth, Mars and Jupiter 19 p2973 N84-28844
LIVESEY, N. J.
Software support for fully Distributed/Loosely coupled processing systems, volume 1
[AD-A141500] 19 p3076 N84-29518
Software support for fully distributed/loosely coupled processing systems. Volume 2: Appendix-selected papers
[AD-A141501] 19 p3076 N84-29519
LIVETT, R. K.
Thermal property measurement techniques and some results for CdTe
[AD-A131455] 02 p0299 N84-11959
LIVINGSTON, F. R.
Stirling module development overview 18 p2873 N84-28240
LIVINGSTON, J. D.
SEM (Scanning-Electron-Microscopy) studies of magnetic domains in amorphous metals
[AD-A140718] 17 p2624 N84-26793
LIVINGSTON, R.
Electron spin resonance study of thermal instability reactions in jet fuels
[NASA-CR-168333] 09 p1289 N84-18418
LIVINGSTON, R. C.
The anisotropy of high latitude nighttime F-region irregularities
[AD-A131215] 01 p0106 N84-10688
High-latitude and equatorial research support for predicting high-altitude nuclear effects
[AD-A131431] 02 p0249 N84-11630
The effects of naturally-occurring propagation disturbances on discrete focused arrays
[AD-A132645] 05 p0670 N84-14404
Phenomenology of structured plasma in the ionosphere
[AD-A136396] 09 p1345 N84-18784
F-layer ionization patches in the polar cap
[AD-A138633] 13 p2011 N84-23044
High-latitude ionospheric irregularities
[AD-A142648] 20 p3241 N84-30573
LIVINGSTON, W. C.
Modelling solar spectral irradiance variations at ultraviolet wavelengths 17 p2780 N84-27651
LIVINGSTONE, C. E.
SAR measurement of sea ice properties during Marginal Ice Zone Experiment (MIZEX) 83 23 p3772 N84-33911
LIVSHITS, B. G.
Phase transformations and coercive force of alloys based on the compound SmCo5
[BLL-M-35117-(5828.4)] 01 p0040 N84-10255
LIVSHITS, L. D.
Size distribution of fragments forming during solid body destruction 18 p2863 N84-28175

LIYEPINYA, V. E.
Thermal and electrical interaction of tantalum with a low temperature chemically active plasma flow
[NASA-TM-77374] 06 p0920 N84-15960
LIZKO, N. N.
Study of erythrocyte adhesion in cosmonauts
15 p2375 N84-25252
LIZON-TATI, J.
Design and test of a cryogenic phase separator for zero-g environment 10 p1442 N84-19418
Superfluid Helium Cryostat for Space Utilization (CRHESUS): Development and test overview
10 p1442 N84-19420
LJAKIN, J. I.
Vulcanizate structure of isoprene chloroprene rubber combination
[CSIR-TRANS-1646] 01 p0048 N84-10312
LLEWELLYN, B. M.
Use of sperm enzymes to detect genotoxic agents
[AD-A142724] 20 p3260 N84-30691
LLIBRE, J.
Qualitative study of the planar isosceles three-body problem
[PREPRINT-35] 20 p3133 N84-29896
On the integrals of the n-body problem
23 p3819 N84-34220
Qualitative analysis of the anisotropic Kepler problem
23 p3819 N84-34221
LLORCA, M. A.
Development of a slotted waveguide array panel for SAR antenna: Electrical design and testing
[IEC-MO-80/11] 23 p3732 N84-33656
LLORENS, R. E.
Low velocity, transverse normal impact of a clamped plate 15 p2310 N84-24860
LLOYD, B.
Lower hybrid experiments at the 1 MW level on Alcator C: Heating and current drive
[DE84-010586] 20 p3304 N84-30981
LLOYD, C. R.
Daily variations of temperature and humidity within and above Amazonian forest
[INPE-3196-PRE/560] 21 p3447 N84-31869
Observations of radiation exchange above and below Amazonian forest
[INPE-3194-PRE/558] 21 p3447 N84-31870
LLOYD, J. L.
Estimating the performance of telecommunication systems using the ionospheric transmission channel. Ionospheric communications analysis and prediction program user's manual
[PB84-111210] 08 p1147 N84-17468
Computation of linear communication antennas
[PB84-143502] 11 p1645 N84-20755
LO, C. A.
Modeling effects of composition on the burn rates of nitrate ester-based energetic binders
13 p1951 N84-22685
LO, C. C.
Evaluation of the Beijing Instrument Factory GDB-44F photomultiplier
[DE84-000849] 03 p0368 N84-12398
Evaluation of Hamamatsu R1635 photomultiplier
[DE84-001252] 04 p0527 N84-13468
Low-noise gallium-arsenide field-effect transistor preamplifiers for stochastic beam-cooling systems
[DE83-017535] 04 p0528 N84-13475
Cryogenically cooled broad-band GaAs field-effect transistor preamplifier
[DE84-004166] 10 p1487 N84-19722
LO, H.
FGGE/SBUV tape specification and shipping letter description
[NASA-CR-170482] 06 p0934 N84-16071
FGGE/ERBM tape specification and shipping letter description
[NASA-CR-170547] 06 p0934 N84-16072
FGGE/ERBZ tape specification and shipping letter description
[NASA-CR-170548] 06 p0934 N84-16073
FGGE/SMMR-30 tape specification and shipping letter description
[NASA-CR-170550] 06 p0935 N84-16074
LO, K. W. K.
Growth processes of snow
[AD-A133136] 06 p0866 N84-15639
LO, R. C.
A comprehensive description of the mission sensor microwave imager (SSM/I) environmental parameter extraction algorithm
[AD-A134052] 05 p0759 N84-14976
A comparison of SMMR (Scanning Multichannel Microwave Radiometer) and airborne microwave measurements during GOASEX (Gulf of Alaska experiment)
[AD-A134514] 07 p1008 N84-16534
Determination of sea surface temperature with N-ROSS (Navy-Remote Ocean Sensing System)
[AD-A143563] 22 p3627 N84-32984
LO, R. Q.
The study of microstrip antenna arrays and related problems
[NASA-CR-173534] 14 p2136 N84-23807
LO, S. C.
Acta aeronautica et astronautica sinica (selected articles
[AD-A138531] 12 p1764 N84-21506
LO, Y. T.
Numerical methods for analyzing electromagnetic scattering
[NASA-CR-175423] 10 p1473 N84-19820
Wave attenuation and mode dispersion in a waveguide coated with lossy dielectric material
[NASA-CR-173820] 20 p3172 N84-30145
Numerical methods for analyzing electromagnetic scattering
[NASA-CR-173916] 22 p3575 N84-32645
LOBACHEVSKIY, L. A.
Well-developed convective cloud cover as source of internal waves 18 p2865 N84-28187
Excitation of quasi-static magnetic fields in axial structures 20 p3287 N84-30873
LOBACHIK, V. I.
Effect of sydnocarb on hemodynamics and redistribution of blood during functional tests following six-hour antiorthostatic hypokinesia 07 p1045 N84-16777
Effect of dihydroergotamine on human circulation during orthostatic tests 20 p3253 N84-30646
LOBANOV, L. M.
Study of specifics of formation of stress and strain in making circular welded joints in aluminum alloy envelopes 24 p3876 N84-34560
LOBANOVA, Y. A.
New trends in standardization of electromagnetic microwave radiation 07 p1044 N84-16767
LOBAO, D. C.
Comparison of analytical theories for studying the contraction of artificial satellite orbits
[INPE-2746-PRE/322] 22 p3540 N84-32409
LOBASHEV, M. N.
Corrosion protective properties of coatings obtained by hydraulic pulse compacting of aluminum powder
24 p3875 N84-34553
LOBERG, G.
The design of backtrack algorithms
[AD-A132299] 04 p0580 N84-13828
LOBITZ, D. W.
A comparison of finite-element predictions and experimental data for the forced response of the DOE 100 kW vertical-axis wind turbine
[DE83-012624] 03 p0389 N84-12537
Comparison of finite element predictions and experimental data for the forced response of the DOE 100 kW vertical axis wind turbine
[DE84-007977] 14 p2159 N84-23932
NASTRAN-based computer program for structural dynamic analysis of horizontal axis wind turbine
[DE84-011257] 21 p3423 N84-31713
LOBODA, S. M.
The cathodic polarization of nickel during precipitation from pure solutions without additions
[BLL-OA-TRANS-3004-(6196.3)]
01 p0043 N84-10275
The cathodic polarization of nickel during precipitation from pure solutions without additions
[BLL-OA-TRANS-3003-(6196.3)]
01 p0043 N84-10276
LOCHER, C.
Investigations into the burning-out of organic substances in the ceramic body
[NASA-TM-77065] 01 p0049 N84-10315
LOCHTER, M.
A high resolution system for analogue recording and digital processing of measured values in fusion research
[JUEL-1909] 23 p3752 N84-33786
LOCKE, E.
Proof of principle experiment for a coherent CO2 waveguide laser array
[AD-A139121] 14 p2150 N84-23881
LOCKE, T. N.
Manufacturing methods and technology, CAM (Computer Aided Manufacturing) related projects, FY 83-85
[AD-A136572] 09 p1367 N84-18924
LOCKEN, W. J.
Digital multivariable tracker control laws for the KC-135A
[AD-A141118] 19 p2964 N84-29786
LOCKENOUR, J. L.
Application of flight controls technology to engine control systems 03 p0315 N84-12061
LOCKETT, K. V.
The simulation of a major Automated Information System (AIS) on a microcomputer
[AD-A143599] 23 p3834 N84-34323
LOCKHART, G.
Benchmarking unstructured systems
[DE83-011175] 05 p0758 N84-14969
LOCKRIDGE, P. A.
Natural hazards photograph catalog, key to geophysical records documentation no. 20
[PB83-250415] 04 p0557 N84-13674
LOCKWOOD, G.
A multi-GHz multi-channel photonic analog data processing system
[DE84-012281] 21 p3499 N84-32175
LODA, R. T.
Analysis of particulates in the exhaust plume of a TF30 engine at military power
[AD-A142510] 20 p3131 N84-29882
LODDER, J. J.
Generalized functions as linear functionals on generalized functions
[MC-ZW-199/83] 07 p1065 N84-16912
LOEB, H. W.
Status and future application of the RF-propulsion systems RITA including interplanetary missions
[MBB-UR-646-83-O] 16 p2563 N84-26444
LOEBENSTEIN, J. R.
Platinum-group metals
[PB83-239152] 02 p0198 N84-11291
LOEBER, J. F.
Consistent hydrodynamic mass for parallel prismatic beams in a fluid-filled container
[DE84-010381] 18 p2853 N84-28116
LOEBL, H.
Electrophoretic recording of color images with high quality
[BMFT-FB-T-83-319] 12 p1794 N84-21702
LOEF, G. O. G.
Open cycle lithium chloride cooling system
[DE84-005831] 20 p3184 N84-30234
LOEFFLER, W.
Soviet integrated circuits in use in GDR
23 p3728 N84-33630
LOEFSTROEM, J.
Best approximation in L sub p (W) by algebraic polynomials
[CTH-MATH-1983-20] 14 p2215 N84-24307
Interpolation of weighted L sub P and Sobolev spaces on intervals
[CTH-MATH-1984-04] 19 p3090 N84-29622
LOEHNER, R.
Domain splitting for an explicit hyperbolic solver
[C/R/469/83] 07 p1060 N84-16871
High speed inviscid compressible flow by the finite element method
[NASA-CR-173556] 15 p2332 N84-25002
An adaptive finite element method for high speed compressible flow
[NASA-CR-173443] 17 p2601 N84-26669
LOENBERG, K.
Influences affecting separation in monotectic alloys under microgravity 17 p2612 N84-26723
LOESCHE, P.
First results of the evaluations of the European SAR 580 data for agricultural and forestry purposes in test site D6, Freiburg (West Germany) 03 p0398 N84-12599
LOESH, R.
Ada and the NASA software environment
05 p0724 N84-14749
LOESTERLIN, V.
Some signal processing methods based on covariance estimates of signal and noise
[FOA-C-30343-E1] 10 p1484 N84-19701
LOEVE, W.
An infrastructure for computational fluid dynamics for computer aided design
[NLR-MP-82046-U] 10 p1495 N84-19774
Functioning of mathematics in institutes for applied scientific research
[NLR-MP-82056-U] 10 p1572 N84-20300
The influence of Computer Aided Design (CAD) on research
[NLR-MP-83026-U] 21 p3467 N84-31984
LOEW, G. A.
Microwave measurements of azimuthal asymmetries in accelerating fields of disk-loaded waveguides
[DE83-012705] 02 p0210 N84-11373
Elementary principles of linear accelerators
[DE84-007911] 20 p3294 N84-30913
LOEWENS, R.
Microwave remote sensing experiment for first Spacelab mission
[BMFT-FB-W-83-022] 10 p1527 N84-20001

LOEWENSTEIN, R. F.
Far-IR selected star formation regions
[NASA-TM-85955] 16 p2574 N84-26521
NGC 2024: Far-infrared and radio molecular observations
[NASA-TM-85954] 16 p2575 N84-26524
The energetics and mass structure of regions of star formation
[NASA-TM-85953] 16 p2575 N84-26525
LOEWENTHAL, S. H.
An advanced pitch change mechanism incorporating a hybrid traction drive
[NASA-TM-83709] 16 p2433 N84-25605
An analytical method to predict efficiency of aircraft gearboxes
[NASA-TM-83716] 16 p2433 N84-25606
Factors that affect the fatigue strength of power transmission shafting
[NASA-TM-83608] 16 p2498 N84-26029
Design of power-transmitting shifts
[NASA-RP-1123] 17 p2675 N84-27041
Spin analysis of concentrated traction contacts
[NASA-TM-83713] 17 p2675 N84-27042
An analysis of traction drive torsional stiffness
[NASA-TM-83712] 17 p2675 N84-27043
Efficiency of nonstandard and high contact ratio involute spur gears
[NASA-TM-83725] 19 p3031 N84-29223
LOEWY, R. G.
Composite structural materials
[NASA-CR-174597] 03 p0347 N84-12257
Composite structural materials
[NASA-CR-173259] 06 p1122 N84-17293
LOF, C. J.
New analytical methods for the prediction of fatigue crack growth under realistic loading
[NLR-MP-82055-U] 09 p1335 N84-18713
The K-distributions extrapolated on the basis of stress intensity rates
[NLR-MP-83048-U] 17 p2680 N84-27073
LOFBERG, M. S.
Anthropometric and mass distribution characteristics of the adult female, revised
[AD-A143096] 21 p3457 N84-31939
LOFTUS, J. J.
Physical and computer modeling of military earth grounding practices in a HEMP (High-Altitude Electromagnetic Pulse) environment
[AD-A130141] 01 p0070 N84-10454
LOGAN, B. G.
Summary of the MARS tandem-mirror reactor design
[DE83-017293] 03 p0447 N84-12939
Magnetic mirror fusion power systems
[DE84-002799] 07 p1077 N84-17005
LOGAN, D.
Interactive parallel processor for data analysis
[DE84-004311] 10 p1564 N84-20250
LOGAN, D. T.
Canyon and slope processes study. Volume 3: Biological processes
[PB84-169507] 17 p2738 N84-27393
LOGAN, K. P.
Communications network design and costing model technical manual
[NASA-CR-168236] 05 p0666 N84-14376
Communications network design and costing model programmers manual
[NASA-CR-168237] 05 p0666 N84-14377
Communications network design and costing model users manual
[NASA-CR-168238] 05 p0666 N84-14378
LOGAN, R. R.
Application of a distributed routing algorithm to a packet-switched communications network
[AD-A139147] 14 p2140 N84-23828
LOGAN, T. L.
Cloud cover typing from environmental satellite imagery. Discriminating cloud structure with Fast Fourier Transforms (FFT)
[NASA-CR-173727] 18 p2863 N84-28296
An analysis LANDSAT-4 Thematic Mapper geometric properties 20 p3210 N84-30392
LOGEE, T. L.
Reliability and maintainability study of select solar-energy-system components in the National Solar Data Network
[DE83-011974] 03 p0404 N84-12647
LOGGINOV, A. S.
Waveguide characteristics of resonators with arbitrary distribution of dielectric permittivity 21 p3380 N84-31451
LOGUNOV, A. V.
Carbide phases in high-temperature nickel-hafnium alloys 24 p3871 N84-34532
LOGVINOV, I. M.
Structure and direction of evolution of European tectonosphere according to geological and geophysical data 17 p2706 N84-27233
LOH, E.
Searching for limitations in capability due to high average rates 06 p0911 N84-15919
Operation of a high-P/sub T spectrometer arm at 10/sup 33 cm-2 sec-1 with particle identification 06 p0913 N84-15937
LOH, I. H.
Polymeric microelectronics
[AD-A130523] 01 p0049 N84-10317
LOH, N. K.
Design and microprocessor-based implementation of digital frequency selective filters for application in terrain roughness identification
[AD-A133459] 06 p0897 N84-15826
LOH, R. L.
Micro and macro mechanics of fracture in ceramics
[AD-A137290] 10 p1465 N84-19572
LOH, W. Y.
A note on the geometry of Kullback-Leibler information numbers
[AD-A129170] 01 p0129 N84-10840
Directionally efficient robust estimators of location via exponential embedding
[AD-A130525] 01 p0130 N84-10854
A parametric bootstrap procedure for testing separate families of hypotheses
[AD-A134533] 07 p1062 N84-16887
LOHANICK, A. W.
Snow thickness and brightness temperature on multi-year ice
[AD-A133940] 06 p0884 N84-15747
LOHE, M. A.
Special functions and group theory in theoretical physics
[DE83-015642] 02 p0301 N84-11975
LOHMANN, R. P.
The NASA broad specification fuels combustion technology program at Pratt and Whitney 14 p2108 N84-23640
LOHMAR, F. J.
Determination of a geoid profile across the Alps using Doppler measurements of the US Navy Navigation Satellite System (NNSS) 02 p0234 N84-11534
Calibration measurements of Doppler receivers 08 p1174 N84-17647
LOIDL, A.
The ISPM interstellar neutral-gas experiments 09 p1261 N84-18234
LOIKO, N. A.
Selfpulsing, hysteresis and chaos in a standing wave laser 14 p2239 N84-24439
LOISEAU, H.
Experimental determination of the inertia constants of an airplane or of a missile
[NASA-TM-77767] 23 p3689 N84-33381
LOKEN, G. R.
Space Shuttle Orbiter improved auxiliary power unit 20 p3144 N84-29965
LOKEN, S. C.
Proceedings of the 1983 DPF Workshop on Collider Detectors: Present Capacities and Future Possibilities
[LBL-15973] 06 p0910 N84-15911
Trigger systems which could operate at a luminosity of 10/sup 33 cm(-2) to sec/sup -1 06 p0911 N84-15918
LOKSHIN, A.
An investigation of the effects of scan separation on the sensitivity of the SETI all sky survey for the case of Gaussian noise 16 p2480 N84-25905
LOKTEV, V. M.
Nature of polarized vibronic sidebands of biexciton absorption in Alpha-oxygen 20 p3289 N84-30884
LOKTIONOV, A. M.
Certain features of a vacuum magnetic-impulse welding process 12 p1787 N84-21656
LOMAKO, P.
Far north as source of nonferrous metals 24 p3874 N84-34551
LOMANOV, G.
Hypokinesia experiment studies effects of weightlessness 21 p3347 N84-31234
LOMBA-GAUTIER, I. M.
Development of a microprocessor based audiometer for threshold shift studies
[AD-A142124] 19 p3065 N84-29448
LOMBAERS, J.
Investigation of the effect of the viewing target height on the eye height of sitting Visual Display Unit (VDU) operators
[IZF-1983-9] 12 p1869 N84-22177
Orientation of ergonomic aspects of the Universal Dynamometer Device
[IZF-1983-25] 20 p3199 N84-30315
LOMBARD, C. K.
Universal single level implicit algorithm for gasdynamics
[NASA-CR-166531] 08 p1216 N84-17936
LOMBARDI, A.
Lithium cell reactions
[AD-A142976] 21 p3391 N84-31522
LOMBARDI, F.
Review of research under the Joint Services Electronics Program
[AD-A141458] 19 p3013 N84-29100
LOMBARDI, J. C.
PASCAL-MP: A language for the algebraic and numerical manipulation of polynomials
[INPE-3057-PRE/477] 23 p3814 N84-34183
LOMBARDI, P.
The small transmitter receiver stations in the Sirio experiment
[FUB-50-1982] 06 p0826 N84-15386
LOMBARDI, R.
SS Cygni: Accretion disk morphology 24 p3979 N84-35206
LOMBARDINI, P. P.
Statistical data on anomalous propagation in the Tyrrhenian Sea using an X-band link 06 p0871 N84-15668
LOMBARDO, M. R.
Aluminum foil shield effectiveness for electronic cables 11 p1719 N84-21215
LOMUNOV, V. K.
Study of large viscoplastic strains in cylindrical shells by method of magnetic-pulse loading 13 p1972 N84-22798
LONARDO, G.
PAS/NEB: A PASCAL language tool for the MCF (Military Computer Family)
[AD-P003535] 21 p3332 N84-31139
LONDEN, S. O.
Asymptotic estimates for resolvents of some nonintegrable Volterra kernels
[AD-A141662] 21 p3471 N84-31999
LONDON, R. A.
Theory of optical flashes
[DE84-001450] 04 p0622 N84-14106
LONG, D.
Digital filter processor design for spaceborne scatterometers 23 p3777 N84-33948
LONG, G.
Report of an overseas visit to the USA, part 2
[AD-A142054] 19 p2955 N84-28729
LONG, G. G.
Passive films, surface structure and stress corrosion and crevice corrosion susceptibility
[AD-A135549] 08 p1132 N84-17363
LONG, J. A.
Life cycle costing in a dynamic environment
[AD-A133023] 05 p0757 N84-14967
LONG, K. S.
A search for X-ray polarization in cosmic X-ray sources
[NASA-CR-173635] 17 p2781 N84-27657
LONG, L. N.
The compressible aerodynamics of rotating blades based on an acoustic formulation
[NASA-TP-2197] 04 p0594 N84-13923
The compressible aerodynamics of rotating blades using an acoustic formulation 16 p2442 N84-25670
LONG, M. B.
Simultaneous multipoint measurements of density gradients and temperature in a flame
[DE84-006832] 12 p1794 N84-21697
LONG, R.
First UFO incident for our country
[AD-A133326] 06 p0932 N84-16058
LONG, R. P.
Refining of military jet fuels from shale oil. Part 4. Process computer modeling studies
[AD-A128891] 01 p0052 N84-10334
LONG, S. A.
Millimeter wave guiding structures and antennas
[AD-A133528] 06 p0825 N84-15376
LONG, S. I.
Development of a planar heterojunction bipolar transistor for very high speed logic
[AD-A136341] 09 p1306 N84-18539
LONG, T. N.
Stinger post hybrid simulation: Design description and users' manual
[AD-A130027] 01 p0122 N84-10791
LONG, W. H., JR.
Scaling studies of efficient Raman converters
[AD-A130382] 01 p0086 N84-10560

LONGACRE, M. B.
Correlation of tectonic provinces of South America and the Caribbean region with MAGSAT anomalies
15 p2355 N84-25130
Satellite elevation magnetic and gravity models of major South American plate tectonic features
15 p2355 N84-25131
Relation of MAGSAT anomalies to the main tectonic provinces of South America 15 p2356 N84-25137
LONGACRE, R. S.
Operation of the Brookhaven MPS Facility
[DE83-015383] 03 p0441 N84-12896
LONGDON, N.
Remote Sensing Applications for Environmental Studies
[ESA-SP-188] 03 p0395 N84-12579
EURECA: An introduction to Europe's free-flying retrievable carrier
[ESA-BR-16] 09 p1272 N84-18308
Spacelab data book
[ESA-BR-14] 09 p1273 N84-18315
Earthnet: The story of images
[ESA-BR-18] 16 p2509 N84-26102
Europe: Two decades in space. Recollections by some of the principal pioneers
[ESA-SP-1060] 18 p2946 N84-28680
Twenty years of European cooperation in space
18 p2946 N84-28681
The Gravity Relevance in Bone Mineralization Processes
[ESA-SP-203] 23 p3807 N84-34138
LONGHI, J.
Workshop on Pristine Highlands Rocks and the early History of the Moon
[NASA-CR-174584] 03 p0465 N84-13059
LONGHOUSER, J. E.
Skunkworks 81 revisited: An update on acquisition strategy
[AD-P002759] 13 p2051 N84-23306
LONGHUA, Y.
The calculation of the heat transfer associated with the injection of methane gas at the stagnation point of the dissociated boundary layer of the laminar air flow
[AD-A139063] 13 p1990 N84-22918
LONGLEY, A. G.
The use of burst transmission to increase communication range: A feasibility study
[PB84-111400] 08 p1147 N84-17467
LONGMORE, A. J.
Observation of the interstellar ice grain feature in the Taurus molecular clouds
[DE84-004316] 10 p1595 N84-20453
Observations of the interstellar ice grain feature in the Taurus molecular clouds 16 p2570 N84-26493
Nova Aquilae 1982: The nature of its dust
16 p2572 N84-26504
Observations of the interstellar ice grain feature in the Taurus molecular clouds 18 p2948 N84-28691
Nova Aquilae 1982: The nature of its dust
18 p2950 N84-28703
LONGO, I.
Critical slowing-down in microwave absorptive bistability 14 p2237 N84-24429
LONGO, M.
Optimum and sub-optimum processors for multistatic radar systems 06 p0906 N84-15885
LONGO, T. A.
MIL-STD-1750A microprocessor chip set development
[AD-P003548] 21 p3334 N84-31152
LONGONI, F.
Onboard software testing and qualification
05 p0724 N84-14754
LONGRIDGE, T. M.
Physiological assessment of aircraft pilot workload in simulated landing and simulated hostile threat environments
[AD-A140469] 16 p2538 N84-26297
LONGSDERFF, R. W.
Multispectral linear array visible and shortwave infrared sensors 23 p3781 N84-33977
LONGSHORE, J. F.
Research opportunities for future commercial transports 11 p1619 N84-20594
LONGWORTH, J. D.
Engineering and technical services to improve reliability and maintainability of instrument landing system components
[DOT/FAA/PM-84/7] 11 p1604 N84-20503
Instrument landing system critical area studies
[AD-A138228] 12 p1768 N84-21530
LONNEUX, L.
A carrier recovery closed loop implementation in high velocity PSK modems by digital techniques
[INPE-2822-PRE/376] 02 p0208 N84-11355
LONSKIY, E. S.
Infrared ellipsometer method for determination of parameters of thin epitaxial structures with buried layer: Specimens with dull inactive surface
21 p3379 N84-31446
LOO, R. Y.
Recent advances in LPE GaAs-based solar cells
19 p3044 N84-29310
Defect studies in one MeV electron irradiated GaAs and in Al/sub x Ga/sub l-x As P-N junction solar cells
19 p3045 N84-29321
LOOBORSCHIL, W.
Techniques for integrated text and image processing and communication
[BMFT-FB-T-83-104] 02 p0302 N84-11985
LOODTS, J.
Remote sensing and topographic maps
03 p0398 N84-12600
LOOK, D. C.
Compound semiconductor characterization
[AD-A143601] 23 p3830 N84-34292
LOOKE, T. D.
Stability enhancement of a flexible robot manipulator
[AD-A134185] 07 p1051 N84-16807
LOOMIS, B. A.
Corrosion and oxidation of vanadium-base alloys
[DE84-003266] 09 p1285 N84-16393
Evolution of cavity microstructure in ion-irradiated 316 SS and Fe-20Ni-15Cr alloy
[DE84-012111] 20 p3158 N84-30053
LOOMIS, H. H., JR.
High-speed recursive digital filter realization
[AD-A140904] 17 p2759 N84-27517
LOOMIS, W. R.
Overview of liquid lubricants for advanced aircraft
[NASA-TM-83529] 02 p0199 N84-11296
LOONEY, K. T.
Investigation of fast initialization of spacecraft bubble memory systems
[NASA-TM-85832] 18 p2832 N84-27977
LOONEY, L. D.
Radiation damage in optical fibers
[DE83-012740] 02 p0295 N84-11932
LOOPER, J. L.
Advanced F/A-18 avionics 06 p0770 N84-15048
LOOS, A. C.
Curing of graphite/epoxy composites
01 p0030 N84-10186
Curing of graphite/epoxy composites
[AD-A130071] 01 p0030 N84-10191
LOOSER, H.
Measurement of diffusion constant by pulsed magnetic field gradient NMR in Ag26I13W4O16 RbAg4I5 and KAg4I5 11 p1743 N84-21373
LOOZE, D. P.
Research initiation: Aggregated hierarchical control
[PB83-226761] 01 p0135 N84-10887
LOPES, A.
On the relationships between radar backscattering coefficient and vegetation canopy characteristics
23 p3768 N84-33882
LOPES, L. L.
Risk and distributional inequality
[AD-A140373] 16 p2565 N84-26458
LOPES, R. V. D. F.
Recursive analysis of the geomagnetic vector field
[INPE-2865-PRE/400] 02 p0272 N84-11776
Smoothing on the frequency domain
[INPE-3182-PRE/547] 21 p3471 N84-31997
LOPEZ-RIOS, T.
Research and development for investigations of metallic adsorptions on metal surfaces by optical techniques complemented by dc resistivity and auger spectroscopy
[AD-A131739] 03 p0361 N84-12351
LOPEZ, H.
Hydrogen attack mechanisms in a 2-1/4 Cr1 Mo welded steel 16 p2464 N84-25789
LOPEZ, N.
Infrared monitoring of gyrotron windows
[DE84-004442] 10 p1499 N84-19799
LOPEZ, O. F.
Residual-strength tests of L-1011 vertical fin components after 10 and 20 years of simulated flight service 20 p3145 N84-29970
LOPEZ, R. E.
Variability of the convection field pattern in South Florida and its relationship to the synoptic flow
[PB84-177393] 20 p3249 N84-30623
LOPORTO, L.
Effect of multiple scattering on the propagation of light beams in dense nonhomogeneous media
15 p2325 N84-24959
LOPRESTI, L.
Implementation of a stand alone FORTRAN version of the TOPSIM simulation package
[ESA-CR(P)-1825] 12 p1884 N84-22284
LORANCHET, P.
Single-pilot IFR flights and operations
[SNIAS-832-210-103] 16 p2552 N84-26374
LORBER, P. F.
Some unsteady aerodynamic characteristics of separated and attached flow
[AD-A137070] 10 p1422 N84-19300
LORD, F. M.
An investigation of methods for reducing sampling error in certain IRT (Item Response Theory) procedures
[AD-A133848] 05 p0739 N84-14853
Comparison of IRT observed-score and true-score equatings
[AD-A133871] 06 p0891 N84-15791
LORD, R.
Applications of the AVE-SESAME data sets to mesoscale studies
[NASA-CR-3819] 21 p3448 N84-31868
LORD, R. E.
Engineering research on positive displacement gas expanders, phase 1
[DE84-008977] 20 p3198 N84-30310
LORD, R. S.
Dual arc penning ion source gas flow experiments
[DE84-011637] 21 p3495 N84-32151
LOREE, T. R.
Detection of elements in biomedical fluids by laser-induced breakdown spectroscopy
[DE84-003638] 08 p1126 N84-17319
LORELL, K. R.
Design of a precision etalon position control system for a cryogenic spectrometer 15 p2348 N84-25093
LORENA, L. A. N.
Use of an exact penalty function for optimization of discrete problems
[INPE-2769-PRE/342] 04 p0588 N84-13883
Equivalence between maximization problems subjected to inequality constraints
[INPE-3166-PRE/536] 23 p3818 N84-34206
LORENDEAUX, M.
Characterization of a sample of aluminum alloy longeron in 7050 T73652 of Alcoa origin. Summary of test number MO 570300 18 p2794 N84-27729
LORENZ, D.
Stereo methods in satellite meteorology
23 p3776 N84-33936
LORENZ, J.
Optimization of SiC-based materials
[BMFT-FB-T-83-161] 05 p0661 N84-14343
LORENZ, J. H.
Survey of the preparation, purity, and availability of silanes
[DE84-000090] 20 p3163 N84-30084
Polycrystalline silicon study: Low-cost silicon refining technology prospects and semiconductor-grade polycrystalline silicon availability through 1988
[NASA-CR-173897] 22 p3662 N84-33213
LORENZ, L.
Comments on Bing's paper On a Posteriori Probability, and reply to Professor L. Lorenz
[CSIR-TRANS-1658] 01 p0128 N84-10838
LORENZ, R. W.
Field strength prediction with a topographical data base: Experience gained in the Federal Republic of Germany
10 p1476 N84-19644
LORENZ, S.
Implementing microprocessor technology in aircraft electrical power generating system control
03 p0336 N84-12185
LORENZETTI, D.
Measurement of atmospheric moisture and extinction coefficient in the near infrared at Cima Ekar
[IFSI-83-6] 05 p0762 N84-14999
LORENZO, C. F.
Determination of compressor in-stall characteristics from engine surge transients
[NASA-TM-83639] 13 p1932 N84-22586
LORES, M. E.
Evaluation of 3-D graphics software: A case study
12 p1875 N84-22222
LORGE, J. D.
The use of a small digital computer for on-line behavioral experiments
[AD-A138975] 13 p2025 N84-23126
LORIA, J. C.
NASA-OAST photovoltaic energy conversion program
19 p3044 N84-29308
The NASA photovoltaic technology program
[NASA-TM-83685] 22 p3542 N84-32426
LORING, C. M.
Preionization and start-up in the ISX-B Tokamak using electron cyclotron heating at 28 GHz
[DE84-002261] 06 p0920 N84-15984

LORING, C. M., JR.
Low-cycle fatigue behavior of oxygen-free high-conductivity copper at 3000C in high vacuum
[DE84-000725] 04 p0504 N84-13305

LORIOT, G. B.
Decoding: Software implementations
17 p2694 N84-27161

LORTON, L.
The wetting of ceramic opaque suspensions on oxidized alloy surfaces
[AD-A142899] 21 p3370 N84-31381

LOSARCOS, J. M.
Recommended values of the humidity correction factor k sub h for determining exposure in an X-ray beam with free-air chambers
[JEN-542] 04 p0593 N84-13915

LOSCOE, C. E.
Optical fiber splice sled
[AD-D011180] 24 p3910 N84-34767

LOSECKE, W.
Further development of magnetotelluric methods for the exploration of the pre-Zechstein by improvement of the data processing codes, data acquisition and interpretation techniques
[BMFT-FB-T-83-190] 07 p1023 N84-16638

LOSHAK, M. G.
Strength of hard alloy elements of high pressure apparatus for synthesis of superhard materials
12 p1785 N84-21647

LOSKUTOV, V. F.
Niobizing carbon steels
[BLL-M-35502-(5828.4)] 12 p1795 N84-21710
Composition and structure of multicomponent vanadium- and niobium-base coatings
[BLL-M-35657-(5828.4)] 22 p3550 N84-32474

LOSOTO, A. P.
Electrofilters from polymer materials
24 p3867 N84-34509

LOSSACK, E.
Manufacturing and properties of aluminum sheet from mixed scrap materials
[BMFT-FB-T-84-007] 15 p2296 N84-24776

LOT, L. A.
Real-time ultrasonic sensing of arc welding processes
[DE84-005031] 21 p3415 N84-31657

LOTSPIECH, J. B.
LANDSAT-4 radiometric and geometric correction and image enhancement results 20 p3206 N84-30370

LOTT, L. A.
Instrumentation for real-time ultrasonic sensing of arc welding characteristics
[DE84-012536] 21 p3414 N84-31649

LOTTERMOSER, J.
Non-destructive evaluation techniques, high temperature ceramic component parts for gas turbines
[NASA-TM-77755] 23 p3694 N84-33413

LOTTES, W. D.
Development of a technique for short-term prediction of hydrometeors using advection and physical forcing
[AD-A132259] 04 p0567 N84-13740

LOU, X. C.
Redundancy relations and robust failure detection
[NASA-CR-173252] 07 p1058 N84-16854
An algebraic approach to analysis and control of time-scales
[AD-A135115] 08 p1216 N84-17949
Optimally robust redundancy relations for failure detection in uncertain systems
[NASA-CR-173166] 09 p1377 N84-18997

LOUBERSAC, L.
Application of high resolution satellite data to coastal zones: SPOT simulations during ecological survey of the Britanny coast 03 p0397 N84-12591
Coastal zones inventory by high resolution satellites
08 p1176 N84-17661

LOUCK, J. D.
Special functions and group theory in theoretical physics
[DE83-015642] 02 p0301 N84-11975

LOUCKS, O. L.
Assessment of temporal dynamics of selected terrestrial carbon pools
[DE84-009850] 19 p3059 N84-29410

LOUGH, J. M.
Seasonal climate scenarios for Europe and North America in a high-CO2, warmer world
[DOE/EV-10098/5] 23 p3801 N84-34104

LOUGHEAD, T. E.
Development of robotics facility docking test hardware
[NASA-CR-171153] 23 p3698 N84-33433

LOUGHHEAD, J. H.
Practical experience of engineering software production to a structured programming standard
05 p0723 N84-14744
ESATAN: A thermal network analysis computer program 10 p1443 N84-19426

LOUGHNA, P.
The combined influence of stretch, mobility and electrical stimulation in the prevention of muscle fiber atrophy caused hypokinesia and hypodynamia
[NASA-CR-173994] 24 p3936 N84-34914

LOUGHNANE, L.
Prototype development of an information-sharing and decision support system for the manpower personnel and training community
[AD-P003310] 18 p2909 N84-28451

LOUI, M. C.
The complexity of sorting on distributed systems
[AD-A142415] 20 p3281 N84-30825

LOUIS, J. F.
Parameterization of the atmospheric boundary layer at ECMWF, appendix O 18 p2885 N84-28310

LOUISELL, W. H.
Mirrorless intrinsic optical bistability due to the local field correction in the Maxwell-Bloch formulation
14 p2233 N84-24397

LOURENCAO, P. T. D. M.
Sensitivity analysis of the influence of the flexibility of solar panels on the attitude dynamics of artificial satellites
[INPE-2763-PRE/337] 07 p0961 N84-16232
Simplified analysis of the problem of retrieval for a stabilized artificial satellite by a gravity gradient
[INPE-2756-PRE/332] 09 p1270 N84-18295
Capture of satellite stabilized by gravity gradient with a flexible mast during and after deployment
[INPE-2749-PRE/325] 10 p1436 N84-19383
Satellite attitude stability provided by a rotor subjected to difficult operating conditions
[INPE-2747-PRE/323] 10 p1436 N84-19384

LOURENCO, L.
Computation of turbulent gas-particle suspension flows in channels 06 p0839 N84-15470

LOURENCO, L. M.
Laser speckle velocimetry in fluid dynamics applications 16 p2491 N84-25979

LOURENS, J. A. J.
Surface segration and diffusion investigations by means of AES 06 p0816 N84-15319

LOUTFY, R. O.
Preliminary study of the electrolysis of aluminum sulfide in molten salts
[DE83-014552] 01 p0038 N84-10242

LOVBERG, R. H.
Thrust balance efficiency measurements for a pulsed inductive thruster 20 p3139 N84-29930

LOVE, G.
Data management 09 p1269 N84-18287

LOVE, R.
Utility of the cortical evoked response as a measure of photographic image quality
[AD-A131679] 03 p0377 N84-12455

LOVE, W. A.
Operation of the Brookhaven MPS Facility
[DE83-015383] 03 p0441 N84-12896

LOVE, W. D.
A concept for reducing oceanic separation minima through the use of a TCAS-derived CDTI
[NASA-CR-172258] 07 p0952 N84-16177

LOVELACE, W.
Unit production cost of the radar beacon transponder (Rbx)
[AD-A121532] 17 p2652 N84-26956

LOVELADY, R. W.
A review of underwater acoustic systems and methods for locating objects lost at sea
[NASA-TM-85727] 06 p0908 N84-15898

LOVELAND, D. W.
Search algorithms and their implementation
[AD-A135154] 08 p1219 N84-17953

LOVELAND, O. M.
The use of fuel additives to control plume opacity of turbine engine test cells
[AD-A130777] 01 p0053 N84-10339

LOVELL, A. J.
Thermal creep and stress-affected precipitation of 20% cold-worked 316 stainless steel
[DE84-004933] 10 p1461 N84-19539

LOVELL, W. A.
Application of near-term technology to a Mach 2.0 variable-sweep-wing, supersonic-cruise executive jet
[NASA-CR-172321] 14 p2104 N84-23621

LOVELOCK, R. L.
EASAMS architecture for management and control systems 08 p1207 N84-17871

LOVETT, G. M.
Atmospheric deposition to forests
[DE84-003384] 08 p1182 N84-17700

LOVETT, M. B.
Sedimentation studies relevant to low-level radioactive effluent dispersal in the Irish Sea. Part 3: An evaluation of possible mechanisms for the incorporation of radionuclides into marine sediments
[IOS-178] 19 p3062 N84-29431

LOVINGER, A. J.
Hysteresis in copolymers of vinylidene fluoride and trifluoroethylene
[AD-A137446] 10 p1466 N84-19577

LOW, H. C.
Recent research on the efflux of the Rolls-Royce vaporiser fuel injector 15 p2290 N84-24743

LOWDERMILK, W. H.
Raising the surface damage threshold of neutral solution processed BK-7 by pulse laser irradiation
[DE83-012660] 02 p0225 N84-11477
Damage thresholds of thin film materials and high reflectors at 248 nm
[DE83-012663] 03 p0380 N84-12472
Laser damage in porous-silica antireflection films
[DE84-009535] 19 p3030 N84-29216

LOWE, C.
Lessons learned--advanced attack helicopter
[AD-A135521] 08 p1104 N84-17177

LOWE, J. K.
Modelling with integer variables
[AD-A140212] 16 p2549 N84-26363

LOWE, L. H.
SAMPLE: Software for VAX FORTRAN execution timing
[DE84-003819] 07 p1055 N84-16834

LOWELL, C. E.
High-temperature cyclic oxidation data, volume 1
[NASA-TM-83665] 21 p3365 N84-31345

LOWENFELD, S.
Techniques for sensor-based diagnosis
[AD-A133297] 06 p0896 N84-15814

LOWENTHAL, D. D.
Radial plasma measurements and calculations in the center of a 3-meter laser-heated theta pinch
[DE83-015545] 01 p0150 N84-10989

LOWER, A.
Sterile devices: A GMP (Good Manufacturing Practices) workshop manual
[PB83-226563] 01 p0061 N84-10400

LOWERY, G. B.
Mechanical seal program
[DE84-012421] 22 p3605 N84-32838

LOWERY, H.
The Multiple System OFP Support (MSOS) system, a Pre-PMRT capability for evaluating tactical software
[AD-P003524] 21 p3330 N84-31128

LOWERY, R. L.
Detection of damage in hydraulic components by acoustic emission techniques
[AD-A143262] 22 p3607 N84-32850

LOWNEY, J. R.
Measurement techniques for high-resistivity detector-grade silicon
[PB84-155902] 14 p2149 N84-23877
Measurement techniques for high-power semiconductor materials and devices
[DE84-010425] 20 p3309 N84-31016

LOWREY, D. L.
Crashworthiness: An illustrated commentary on occupant survival in general aviation accidents
[AD-A130198] 01 p0006 N84-10038

LOWRY, C. H.
Design and test of a low-temperature liner driver/rate controller 15 p2347 N84-25083

LOWRY, H. S., III
Collision widths of CO lines broadened by water vapor at elevated temperatures
[AD-A136121] 09 p1323 N84-18644

LOWRY, I. S.
Designing readable and reusable tables
[RAND/P-6945] 14 p2247 N84-24496

LOWRY, K. A.
Modifications to iterative recursion unfolding algorithms and computer codes to find more appropriate neutron spectra
[AD-A142475] 20 p3273 N84-30775

LOWRY, R. T.
Optimizing image quality for SAR
23 p3777 N84-33950

LOWY, M.
A thousand-word speech-recognition system using special-purpose MOS-LSI 09 p1399 N84-19140

LOXSOM, F.
Energy and peak power saved by passively cooled residences 16 p2513 N84-26130

LOY, S. L.
Models of maintenance resources interaction: Peacetime operations
[AD-A131379] 03 p0457 N84-13011

LOYD, B.
Calculating C-grids with fine and embedded mesh regions
[CFDL-TR-83-7] 08 p1238 N84-18090
LOZANO-PEREZ, T.
A subdivision algorithm in configuration space for findpath with rotation
[AD-A130565] 01 p0130 N84-10850
Automatic synthesis of fine-motion strategies for robots
[AD-A139532] 14 p2188 N84-24107
LOZANO, F.
LANDSAT-4 MSS and TM spectral class comparison and coherent noise analysis 20 p3208 N84-30381
LANDSAT-4 MSS and Thematic Mapper data quality and information content analysis
23 p3766 N84-33871
LOZHA, M. T.
Prevention of flight fatigue by physical training
08 p1198 N84-17812
LOZHKIN, B. T.
Effect of laminated structure in materials based on complexes with charge transfer
18 p2826 N84-27943
LOZINSKIY, P. A.
Metabolism and nutritional status in emergency situations without food supply or on a low-calorie diet
07 p1046 N84-16781
LU, C. Y.
Manual of phosphoric acid fuel cell power plant cost model and computer program
[NASA-CR-174720] 23 p3790 N84-34037
LU, J.
The hole drilling method for residual stress distribution measurement
[CETIM-100730] 21 p3424 N84-31720
LU, J. M.
Remote sensing of coastal environment: The estuarine processes of Ta-Tu River 24 p3955 N84-35039
LU, L.
The behavior of streamlines near separation point and separation criterion
[AD-A140649] 17 p2668 N84-27010
Effect of polydispersity on the cloud point curves of polymer mixtures
[AD-A143159] 21 p3370 N84-31384
LU, L. K. H.
Comparison of statistical energy analysis and finite element analysis vibration prediction with experimental results 10 p1516 N84-19923
LU, L. S.
A mixed explicit-implicit antidiffusive method of Navier-Stokes equations for supersonic and hypersonic separated flows
[AD-A141010] 18 p2837 N84-28005
LU, M.
Crack paths and hydrogen-assisted crack growth response in AISI 4340 steel
[AD-A137388] 10 p1459 N84-19528
LU, P. H.
Radiolysis of resist polymers. 2: Poly(haloalkylmethacrylates) and copolymers with methylmethacrylate
[AD-A132095] 04 p0507 N84-13321
LU, R.
Coaxial measurement of the translational distribution of CS produced in the laser photolysis of CS2 at 193nm
[AD-A134613] 07 p0970 N84-16286
LU, R. X.
Fabrication and evaluation of chirped grating lenses in lithium niobate waveguides
[AD-A137103] 10 p1579 N84-20345
LU, S. C.
Reliability analysis for stiff versus flexible piping
[DE84-008325] 20 p3203 N84-30344
LU, S. T.
Microwaves, hyperthermia, and human leukocyte function
[PB83-225375] 01 p0115 N84-10746
LU, S. T. T.
Microwaves and human leukocyte function: Exposure of human mononuclear leukocytes to microwave energy pulse-modulated at 16 Hz or at 60 Hz
[AD-A141071] 19 p3065 N84-29443
LU, W.
Acta mechanica sinica (Selected articles)
[AD-A142128] 19 p3024 N84-29180
LU, Y. C.
Comparison of land cover information from LANDSAT Multispectral Scanner (MSS) and airborne Thematic Mapper Simulator (TMS) data for hydrologic applications
20 p3216 N84-30431
Relative accuracy assessment of LANDSAT-4 MSS and TM data for level 1 land cover inventory
20 p3217 N84-30432
LUBACH, O. A.
Edge- and contour detection for correction of low-pass filtered images
[PB83-217489] 06 p0918 N84-15969
LUBACZ, J.
Performance evaluation of circuit switching for data networks
[ENST-C-83001] 07 p1056 N84-16842
LUBARD, S. C.
Lidar remote sensing of internal waves and optical properties 06 p0871 N84-15670
LUBECK, G.
Soliton bag: Dynamics and the quark plasma
[DE84-001103] 05 p0745 N84-14895
LUBELL, M. S.
Radiation pressure on atoms: Laser cooling and intense field effects
[AD-A143637] 23 p3754 N84-33793
LUBINSKY, D. S.
Rates of convergence of Gaussian quadrature for singular integrands
[CSIR-TWISK-288] 07 p1059 N84-16885
LUBKOWITZ, R.
Coincident extraction of line objects from stereo image pairs
[AD-A133892] 05 p0697 N84-14576
Cooperative line extraction of aerial photos and maps
20 p3226 N84-30502
LUBMAN, D. M.
Laser chromatography (gaseous electrophoresis) of chemical agents
[AD-A130948] 01 p0087 N84-10565
LUBOFSKY, M.
MIL-STD-1750A as a spaceborne instruction set architecture
[AD-P003554] 21 p3334 N84-31158
LUCAS, D.
Optical measurement of SO/sub 2 in combustion environments
[DE84-002927] 09 p1342 N84-18788
Molecular beam mass spectrometer sampling of flash ignited combustion
[DE84-006771] 22 p3548 N84-32459
LUCAS, D. L.
Estimating the performance of telecommunication systems using the ionospheric transmission channel. Ionospheric communications analysis and prediction program user's manual
[PB84-111210] 08 p1147 N84-17468
LUCAS, G. G.
Dissociation charts for use in spark ignition engine performance work (S.I. units)
[TT-8403] 18 p2850 N84-28095
LUCAS, J. W.
Solar parabolic dish technology evaluation report
[NASA-CR-173725] 18 p2870 N84-28217
Proceedings of the Fifth Parabolic Dish Solar Thermal Power Program
[NASA-CR-173745] 18 p2871 N84-28224
LUCAS, P. D.
Wake visualization
[BU-282] 15 p2255 N84-24542
LUCAS, R. M.
Comprehensive assessment of the specific compounds present in combustion processes. Volume 1: Pilot study of combustion emissions variability
[PB84-140870] 11 p1630 N84-20665
LUCCHESINI, M.
Fast flutter clearance by parameter variation
02 p0172 N84-11135
Use of a small scale wind tunnel and model shop at Aeronautica Macchi as an industrial tool
14 p2097 N84-23585
LUCCHINI, F.
Rheological study of clay-kaolin aqueous suspensions
[NASA-TM-77363] 14 p2121 N84-23711
LUCCHITTA, B. K.
Volcanism in the Valles Marineris
13 p2080 N84-23480
Dark streaks on talus slopes, Mars
13 p2084 N84-23499
Small-scale polygons on Mars
13 p2085 N84-23505
The Galilean Satellite Geological Mapping Program, 1983
13 p2090 N84-23541
LUCCI, A. D.
Super integrated power unit for fighter aircraft
03 p0335 N84-12183
LUCCIO, A.
Proposal for a free electron laser in the X-ray region
[DE84-004735] 10 p1501 N84-19808
LUCERO, J. P.
Survey of flash X-ray techniques and applications
[DE83-017234] 03 p0442 N84-12904
LUCEY, P. G.
Surface compositions in the Aristarchus Region: Implications for regional stratigraphy
13 p2087 N84-23519
LUCEY, R.
A broadband high power millimeter to centimeter spectrometer
[AD-A131629] 02 p0294 N84-11927
LUCHININ, A. G.
Interpreting spectra of sea surface aerial photographs
20 p3225 N84-30494
LUCHSINGER, V.
Behavioral issues in the management of technology
[AD-P003349] 18 p2912 N84-28467
LUCIUS, C.
Validation of digital systems in avionics and flight control applications handbook, volume 1
[AD-A133222] 06 p0788 N84-15150
LUCK, C. F.
Manufacturing Methods and Technology (MM&T) program. 10.6 micrometer carbon dioxide TEA (Transverely Excited Atmospheric) lasers
[AD-A137490] 10 p1500 N84-19805
LUCKE, R. L.
Passive line-of-sight stabilization for an infrared sensor
[AD-A143305] 22 p3599 N84-32792
LUCKHAM, D. C.
Ada advanced error detector
[AD-A140273] 16 p2544 N84-26334
Annotation language design for Ada (ANNA)
[AD-A140452] 16 p2545 N84-26336
Runtime detection and description of deadness errors in Ada tasking
[AD-A142239] 19 p3079 N84-29535
LUCKHARDT, S. C.
Particle confinement during lower-hybrid current drive in the Versator 2 Tokamak
[DE84-008941] 19 p3106 N84-29737
LUCKNER, F.
Kinematics of the structure and morphology during surface reactions between transition metals and molecular hydrogen 06 p0816 N84-15317
LUCKOW, J. R.
Further abbreviation of the machining schedule for producing surface-damage-free beryllium
[DOE/TIC-4500-REV-69] 06 p0814 N84-15297
LUDEMANN, C. A.
Microprocessor multi-task monitor
[DE83-012590] 02 p0270 N84-11769
LUDEMANN, W.
Evaluation of several high-strength copper sheet alloys
[DE83-015612] 03 p0353 N84-12298
LUDESCHER, W.
Precision clock generators in Ta thin film technology
[BMFT-FB-T-84-073] 19 p3019 N84-29144
LUDFORD, G. S. S.
Droplet decomposition in a reactive atmosphere: Complete responses for large activation energies
[AD-A132840] 05 p0650 N84-14273
Wrinkled-flame calculations revisited
[AD-P002973] 14 p2201 N84-24209
Near Chapman-Jouget detonations
[AD-P002974] 14 p2201 N84-24210
Are detonations steady?
[AD-P002975] 14 p2201 N84-24211
Two-step sequential reactions for large activation energies-revisited
[AD-A141750] 19 p2988 N84-28934
LUDLAM, J. R.
Uranium anomalies in Wyoming and parts of adjacent states. National Uranium Resource Evaluation
[DE83-005353] 06 p0866 N84-15638
LUDLAM, T.
Track chambers for high luminosity
06 p0912 N84-15921
Detecting heavy quark jets 06 p0914 N84-15939
LUDOWISE, M. J.
Low-cost GaAs solar cell development
[AD-A138938] 13 p2047 N84-23280
Development of mechanically-stacked multijunction solar cell for concentrator applications
[DE84-008355] 15 p2363 N84-25177
Development of a 30 percent efficient 3-junction monolithic cascade solar cell 19 p3047 N84-29328
LUDOWYK, C. J.
Gust response of a light, single-engined, high-wing aircraft
[AD-A131033] 01 p0013 N84-10081
LUDWICK, J. D.
Compendium of selected methods for sampling and analysis at geothermal facilities
[PB84-199926] 22 p3565 N84-32579

LUDWICK, J. S.
A concept for reducing oceanic separation minima through the use of a TCAS-derived CDTI
[NASA-CR-172258] 07 p0952 N84-16177
LUDWICK, L. M.
Ultrahigh molecular weight aromatic siloxane polymers 06 p0830 N84-16042
Ultra-high molecular weight silphenylene-siloxane polymers
[NASA-TP-2295] 10 p1464 N84-19564
LUDWIG, A. C.
RF systems in space. Volume 1: Space antennas frequency (SARF) simulation
[AD-A133734] 05 p0668 N84-14395
LUDWIG, E.
Space stations: Living in zero gravity, developmental task for psychologists and space environmental experts
[NASA-TM-77620] 23 p3700 N84-33454
LUDWIG, R.
Adaptive finite element methods for parabolic partial differential equations
[NASA-CR-174490] 03 p0417 N84-12727
LUECK, R.
Thermodynamics of the decomposition of liquid alloys 17 p2612 N84-26721
LUECKERT, J.
Further development in electron beam lithography
[BMFT-FB-T-83-099] 02 p0216 N84-11415
LUEDEMANN, G.
First operation of the Los Angeles free-electron laser oscillator
[DE84-006024] 11 p1664 N84-20856
LUEDER, E.
Precision clock generators in Ta thin film technology
[BMFT-FB-T-84-073] 19 p3019 N84-29144
LUEDERS, K.
Optimized He 2 cooling systems for space application. Behavior and handling of superfluid helium at G = 0, phase 1
[BMFT-FB-W-83-006] 02 p0207 N84-11349
Optimized He 2 cooling systems for space application. Behavior and handling of superfluid helium at g = 0, phase 2
[BMFT-FB-W-84-006] 19 p3025 N84-29185
LUEKE, B.
DANTE: A semantic data model for use in the construction sector
[KU-IB-17/83] 17 p2754 N84-27480
LUERS, J. K.
Nozzle tests for simulating heavy rain in a wind tunnel
[AD-A139566] 14 p2111 N84-23657
LUEST, R.
Search for exotic molecules in bright comets 24 p3961 N84-35222
LUETTE, J. P.
Power line radiation in the magnetosphere 07 p0966 N84-16387
LUEY, K. T.
Auger characterization of new and aged dispenser cathode surfaces
[AD-A140754] 17 p2663 N84-26968
LUGIATO, L. A.
Self-pulsing, breathing and chaos in optical bistability and the laser with injected signal 14 p2232 N84-24386
Effects of the radial variation of the electric field on some instabilities in lasers and in optical bistability 14 p2238 N84-24433
LUGINBUHL, D. R.
A comparison of fuzzy switching functions and multiple-valued switching functions
[AD-P002363] 14 p2193 N84-24154
LUGMAIR, G. W.
An ancient depleted mantle source for Archean crust in Rajasthan, India 11 p1679 N84-20957
LUH, P. B.
Dynamic, hierarchical decision problems
[AD-P002912] 13 p1981 N84-22863
LUHMANN, J. G.
Patterns of magnetic field merging sites on the magnetopause 16 p2572 N84-26511
Characteristics of the magnetospheric source of interplanetary energetic particles 16 p2573 N84-26512
Magnetopause merging site asymmetries 16 p2573 N84-26513
Magnetic field draping against the dayside magnetopause 16 p2573 N84-26514
The magnetic field of Mars: Implications from gasdynamics modeling 16 p2573 N84-26515
LUHN, E.
Automated detection of internal and surface defects in moving strip
[BMFT-FB-T-84-079] 19 p3033 N84-29239
LUHTA, L. E.
The Archean crust in the Wawa-Chapleau-Timmins region. A field guidebook prepared for the 1983 Archean Geochemistry-Early Crustal Genesis Field Conference 11 p1681 N84-20969
LUI, R.
Signal detection for same-shape families of non-homogeneous Poisson processes
[AD-A135032] 06 p1217 N84-17942
LUIDENS, R. W.
Supersonic STOVL ejector aircraft from a propulsion point of view
[NASA-TM-83641] 15 p2261 N84-24581
Supersonic STOVL aircraft with turbine bypass/turbo-compressor engines
[NASA-TM-83686] 15 p2261 N84-24582
LUKAS, H.
A field splicing system for single-mode optical fiber 11 p1726 N84-21257
LUKASHEV, A. A.
The seismicity of the continental slope of the Kuril trench from the OBS observations 19 p3061 N84-29420
LUKASHEVICH, I. P.
Density model of upper mantle under oceans 18 p2858 N84-28147
LUKE, P. N.
Performance and materials aspects of Ge:Be photoconductors
[NASA-CR-174470] 01 p0155 N84-11023
LUKENS, F. E.
Measurement amplifier
[NASA-CASE-MFS-25868-1] 22 p3581 N84-32680
LUKENS, R. W.
Probabilistic fatigue life predictions of structural components in high-cycle fatigue regimes
[AD-A132425] 04 p0549 N84-13615
LUKENS, W. E.
Effect of electromagnetic stirring on weld pools
[AD-A136718] 10 p1460 N84-19532
LUKHACHEV, O. A.
Flow structures and their evolution in turbulent shear layer 21 p3486 N84-32091
LUKKARI, J.
Numerical simulations of collisions in self-gravitating systems 24 p3967 N84-35237
LUKKARI, L.
Quick-look tables of continuous pulsations (Pc1) and intervals of Pulsations of Diminishing Periods (IPDP) magnetic pulsation events recorded in Finland during IMS years 1976-1979: Data summary
[REPT-92/1982] 13 p2012 N84-23053
LUKYANOV, S. E.
Problems of improving management of use of computer technology in higher schools 24 p3940 N84-34944
LUKYANOV, Y. A.
Forecasting satellite motion 12 p1775 N84-21583
LULL, W. P.
NBS (National Bureau of Standards) Workshop: Environmental Control for Archival Records Storage
[PB83-242230] 03 p0460 N84-13026
LULLIES, B.
All solid state CCD image sensor
[BMFT-FB-T-84-046] 19 p3113 N84-29778
LUMBAN-TOBING, F. E. R.
Finite element analysis of moisture and external loading effects in composites 06 p0799 N84-15211
LUMME, E.
Formation of acid deposition: Atmospheric chemical tranformation and deposition
[REPT-107] 07 p1027 N84-16654
LUMME, K.
Post-mission Viking data anaysis
[NASA-CR-173451] 12 p1776 N84-21587
LUMPE, G.
Geometrically nonlinear analysis of beam-in-space structures
[MITT-28] 12 p1827 N84-21914
LUMPKIN, A.
Electron-beam diagnostics for the Los Alamos free-electron oscillator experiment
[DE83-017230] 03 p0381 N84-12481
The Los Alamos free-electron-laser oscillator experiment: Plans and present status
[DE83-017290] 03 p0382 N84-12485
LUND, C. M.
Radiation transport in numerical astrophysics
[DE84-002011] 05 p0763 N84-15008
LUND, J.
Replicated CdTe substrates
[AD-A133114] 06 p0922 N84-15994
Low cost, sprayed CuInSe2 solar cell research
[DE84-005339] 10 p1530 N84-20023
LUNDBERG, A.
Capacity control of screw compressor units 11 p1640 N84-20726
LUNDBERG, L. B.
Initial evaluation of molybdenum-rhenium alloy for reactor heat pipes
[DE83-012687] 01 p0145 N84-10955
LUNDBERG, R.
Optimized rotary flux compressors for powering laser flashlamps
[DE84-002794] 07 p1010 N84-16555
LUNDBLAD, H. L.
Assessment of the environmental aspects of the DOE phosphoric acid fuel cell program
[NASA-CR-168131] 01 p0102 N84-10663
LUNDEMAN, W.
Thermal stability of four high-strength, high-conductivity copper sheet alloys
[DE83-013312] 01 p0045 N84-10288
LUNDH, P.
Dual channel water vapor radiometer system
[PB84-119445] 08 p1189 N84-17746
LUNDIN, R.
Observations of He+ ions in the solar wind
[KGI-PREPRINT-064] 15 p2428 N84-25585
LUNDQUIST, L.
Study of in-orbit test techniques for multibeam satellites
[LL3-17] 16 p2456 N84-25748
LUNDSTROEM, I.
The photoelectrochemistry of conducting polymers
[DE84-010889] 20 p3164 N84-30093
LUNDSTROM, N. H.
Investigation of organic oxidizers for high performance low flame temperature gas generator applications 13 p1950 N84-22676
High performance, low flame temperature nitramine propellant development 20 p3141 N84-29946
LUNDSTROM, S. F.
Joint services electronics program
[AD-A144444] 24 p3898 N84-34684
Joint services electronics program
[AD-A144445] 24 p3898 N84-34685
LUNIN, V. P.
Optimization of the parameters of the arc suppressing system of high-voltage apparatuses with a thyristor attachment
[BLL-OA-TRANS-3139-(6196.3)] 08 p1149 N84-17476
LUNINA, N. V.
Dependence of blood coagulating and fibrinolytic systems on functional state of lysosomal system of neutrophil leukocytes during exposure of the body to low barometric pressure 20 p3255 N84-30661
LUO, C. M.
Charge state resolved energy spectra of He, N, Ar, and Ne ions 10 p1582 N84-20366
Study of electron beam production by a plasma focus 10 p1582 N84-20367
LUO, H.
The preparation of low-loss optical fiber with microwave plasma activated chemical vapor deposition process
[AD-A134260] 07 p1076 N84-16994
LUO, H. L.
Role of pressure in understanding the anomalous superconductivity in europium (molybdenum)6(sulfur)8 and (TMTSF)2FSO3
[DE83-017292] 06 p0925 N84-16012
LUO, W. A.
Species-specific densities of states of ga and as in the chemisorption of H2O on GaAs(110)
[AD-A134344] 07 p1080 N84-17022
LUOBAO, W.
Influences of directionally solidified techniques and hafnium content on a nickel base high temperature alloy 20 p3159 N84-30064
LUOHUI, Z.
The growth and measurement of single-crystal doped GGG (Gd3-xCaxGa5-xZrx012)
[AD-A131875] 03 p0452 N84-12971
LUPER, A. B.
Performance criteria guideline for three explosion protection methods of electrical equipment rated up to 15,000 volts AC
[NASA-TM-85528] 17 p2640 N84-26887
LUPIE, O. L.
Visible and infrared continuum spectropolarimetric observations of ten OB supergiant and O emission line stars 05 p0762 N84-14995
LUPSON, W. F.
Improving the fatigue performance of thick aluminum alloy bolted joints by hole cold-expansion and the use of interference-fit steel bushes
[ARL-STRUC-NOTE-486] 04 p0543 N84-13578
The use of interference-fit bolts or bushes and hole cold expansion for increasing the fatigue life of thick-section aluminium alloy bolted joints
[AR-002-973] 09 p1329 N84-18676

Improving the fatigue life of the Mirage IIIO wing main spar
[ARL-STRUC-REPT-398] 24 p3853 N84-34437

LUPTON, M. W.
Micronized coal burner facility
[NASA-CASE-LEW-13426-1] 07 p0969 N84-16276

LURIA, S. M.
Cold weather goggles. 6: Effectiveness of yellow filters
[AD-A136241] 09 p1363 N84-18904
Standards for protective goggles for use in the cold
[AD-A137288] 10 p1553 N84-20179
A test of electroluminescent panels for a helicopter emergency escape lighting system
[AD-A139478] 14 p2103 N84-23616

LURIE, C.
Preliminary silver-hydrogen cell test results
23 p3739 N84-33697

LURKER, P. A.
Ozone survey of C-9A
[AD-A130632] 01 p0009 N84-10052

LURYE, B. G.
Dynamic stifness of closed gas-static bearing with regulator 13 p1968 N84-22774

LUSCH, D. P.
Photo interpretation key to Michigan land cover/use
[E84-10048] 04 p0553 N84-13641
Aerial photography for ecological site mapping
14 p2169 N84-23990

LUSH, K. J.
Hydraulic subsystems flight test handbook
[AD-A132633] 05 p0629 N84-14137
Electrical subsystems flight test handbook
[AD-A139783] 15 p2260 N84-24576

LUSIGNOLI, M.
Testing the six quark sheme
[PREPRINT-402] 23 p3823 N84-34247

LUSK, E. L.
Automated reasoning in man-machine control systems
[DE83-014307] 03 p0424 N84-12774
Tools for the creation of IMS database designs from Entity-Relationship diagrams
[DE84-000592] 04 p0616 N84-14066
Approach to programming multiprocessing algorithms on the Denelcor HEP
[DE84-005440] 10 p1565 N84-20251
Portable environment for research in automated reasoning
[DE84-009212] 15 p2396 N84-25372
Logic machine architecture inferance mechanisms: Layer 2 user reference manual release 2.0
[DE84-012115] 20 p3267 N84-30728
Implementation of monitors with macros: A programming aid for the HEP and other parallel processors
[ANL-83-97] 23 p3817 N84-34200

LUSTIG, S. R.
Software for a computer controlled laser Doppler velocimeter
[AD-A143786] 23 p3815 N84-34193

LUSTIGER, A.
Tie molecules in polyethylene
[PB84-101435] 08 p1139 N84-17405
Quality assurance of heat-fused polyethylene plastic pipe joints, phase 2
[PB84-104942] 08 p1168 N84-17608

LUSTIN, S. I.
Functional state and work capacity of man when breathing oxygen and hypoxic mixtures under positive pressure 20 p3254 N84-30654

LUSTMAN, L.
Numerical methods for singular perturbation problems
[AD-A134696] 08 p1220 N84-17966
Spectral methods for exterior elliptic problems
[NASA-CR-172380] 19 p3082 N84-29560
The time evolution of spectral discretizations of hyperbolic systems
[NASA-CR-172432] 22 p3645 N84-33113

LUTER, R. R.
Optimal sensor/actuator placement on a large space structure
[AD-A144560] 24 p3865 N84-34499

LUTES, C. D.
Nonlinear modeling and initial condition estimation for identifying the aerothermodynamic environment of the Space Shuttle Orbiter
[AD-A136928] 10 p1438 N84-19391

LUTES, G. F.
Low loss splicing method for single-mode optical fiber
[NASA-CASE-NPO-16294-1] 22 p3656 N84-33179

LUTFI, H. S.
Space shuttle orbiter venting: Lessons learned
01 p0020 N84-10126

LUTH, V. G.
Acceleration of high charge density electron beams in the SLAC linac
[DE84-012415] 21 p3497 N84-32161

LUTHA, R.
The DOE passive solar commercial buildings program: Preliminary results of performance evaluation
16 p2515 N84-26141

LUTHER, C. A.
Millimeter wave radiometric images of the marginal ice zone 23 p3772 N84-33912

LUTHER, J.
Laser range finding technology for space to space applications. Volume 1: Laser diode range finder functional model
[MBB-UR-606-83-O-VOL-1] 09 p1324 N84-18648

LUTOMIRSKI, R. F.
Lidar remote sensing of internal waves and optical properties 06 p0871 N84-15670

LUTWACK, R.
A review of the silicon material task
[NASA-CR-173743] 18 p2868 N84-28210
Polycrystalline silicon study: Low-cost silicon refining technology prospects and semiconductor-grade polycrystalline silicon availability through 1988
[NASA-CR-173897] 22 p3662 N84-33213

LUTZ, D. H.
A new engineering approach for cable in fire situations using halogenated polymers 11 p1726 N84-21259

LUTZ, K.
Determination of external store drag
24 p3847 N84-34397

LUTZ, M.
Crystalline photoconductive films for electrophotographic recording
[BMFT-FB-T-84-099] 21 p3408 N84-31614

LUTZ, S. S.
Interactive modeling of scintillation pulses by visual overlay of computed pulse shapes with the raw data
[DE83-012668] 01 p0124 N84-10805

LUTZ, T. E.
Estimation: Comments on least squares and other topics 09 p1411 N84-19227

LUTZ, T. J.
Fracture-toughness testing of ductile cast irons
[DE83-010824] 01 p0046 N84-10294
Single specimen J-integral testing
[DE83-016089] 03 p0390 N84-12543

LUUS, H. G.
A predictive view of the detection of influential observations in Gmanova
[CSIR-TR-83] 04 p0591 N84-13904
Asymptotic null and nonnull distributions of three multivariate test statistics in Gmanova
[TR-82] 04 p0592 N84-13905

LUX, D. P.
In-flight lift and drag measurements on a first generation jet transport equipped with winglets
18 p2787 N84-27689

LUX, I.
HEXANN-EVALU: A Monte Carlo program system for pressure vessel neutron irradiation calculation
[VTT-RR-210] 07 p1073 N84-16975

LUZGIN, V. P.
Special features of electrochemical determination of non-uniformly distributed oxygen in melts
[BLL-M-35105-(5828.4)] 01 p0036 N84-10226

LYAKHOV, A. G.
Passage of waves in fluids through damping interlayers and their interaction with barrier
17 p2647 N84-26934

LYAKHOV, G. M.
Shot waves in frozen ground
17 p2703 N84-27218

LYAKHOV, S. B.
Plasma particle acceleration due to emission of ground-based and onboard transmitters
05 p0636 N84-14181
Plasma processes in the region of electron beam injection from a high altitude payload
05 p0637 N84-14194
Modeling of beam-plasma discharge in the laboratory
05 p0638 N84-14200
Plasma processes caused by an electron beam injected from a high altitude rocket probe. Part 1: Neutralization processes
[IWF-8302] 17 p2728 N84-27363
Plasma processes caused by an electron beam injected from a high altitude rocket probe. Part 2: Studies of beam-plasma discharge
[IWF-8303] 17 p2728 N84-27364

LYAKHOVITSKIY, F. M.
Problems in seismic anisotropy of thin-layered media
18 p2859 N84-28157

LYALL, V.
Duality in inexact fractional programming with set-inclusive constraints
[DE84-023584] 22 p3642 N84-33092

LYASHEDKO, L. G.
Investigation of statistical characteristics of random signals in nonlinear medium 21 p3485 N84-32066

LYASNIKOV, Y. P.
Multi-criteria approach to selection of optimal connections in large-scale integrated circuits
21 p3378 N84-31436

LYBANON, M.
GEOSAT Ocean Applications Program (GOAP) initial data processing and analysis system test and evaluation plan
[AD-A141673] 19 p3062 N84-29426

LYDEN, J. D.
Measurement of ocean surface winds by SEASAT synthetic aperture radar
[AD-A138392] 12 p1836 N84-21971
Analysis of SEASAT SAR imagery collected during the JASIN experiment
[AD-A140584] 17 p2721 N84-27320
The use of satellite and aircraft SAR to detect and chart hazards to navigation
[AD-A141658] 19 p3041 N84-29296
Summary of SAR (Synthetic Aperture Radar) ocean wave data archived at ERIM (Environmental Research Institute of Michigan)
[AD-A142620] 20 p3251 N84-30633
SAR measurement of sea ice properties during Marginal Ice Zone Experiment (MIZEX) 83
23 p3772 N84-33911

LYKOV, K. G.
Emission effects of memory in rocks
17 p2705 N84-27227

LYLE, J. W.
Edge blurring in stacked X-ray film screen combinations
[DE84-009658] 19 p3027 N84-29200

LYMAN, W. J.
Methods for estimating physicochemical properties of inorganic chemicals of environmental concern
[AD-A144154] 24 p3917 N84-34799

LYMZIN, V. N.
Feasibility anlysis of novel technological principles of producing multicomponent mechanisms
13 p1968 N84-22773

LYNAS-GRAY, A. E.
An analysis of the helium-weak stars HD 144334
24 p3976 N84-35182
Limb-darkening and metal abundances in the sdOB primary of the eclipsing binary LB 3459 (AA Dor)
24 p3976 N84-35183

LYNCH, D. D.
Water resources data for Virginia, water year 1982
[PB84-118553] 09 p1340 N84-18751

LYNCH, F. T.
Nonadiabatic model wall effects on transonic airfoil performance in a cryogenic wind tunnel
14 p2096 N84-23579

LYNCH, J.
TP2 orderings
[AD-A143434] 22 p3648 N84-33132

LYNCH, J. E.
Vectorized Monte Carlo photon transport
[DE83-014807] 03 p0434 N84-12643

LYNCH, J. T.
Evaluation of the comprehension of non-continuous, sped-up vocoded speech: A strategy for coping with fading HF (High Frequency) channels
[AD-A138650] 13 p1982 N84-22871

LYNCH, M. L.
Structure and porosity of electrodeposited platinum: Evaluation of 4 plating methods
[PB84-152933] 14 p2129 N84-23763

LYNCH, M. T.
First operation of the Los Angeles free-electron laser oscillator
[DE84-006024] 11 p1664 N84-20856

LYNCH, N. A.
Impossibility of distributed consensus with one faulty process
[AD-A132503] 04 p0580 N84-13823
Concurrency control for resilient nested transactions
[AD-A132501] 04 p0589 N84-13891

LYNCH, T. W.
The VAX/VMS device driver and user operation program for the Midwestern Astronomical Data Reduction and Analysis Facility PDS microdensitometer
18 p2841 N84-28036

LYNCH, V. E.
Nonlinear interaction of tearing modes: A comparison between the Tokamak and the reversed field pinch configurations
[DE84-010582] 18 p2934 N84-28606

LYNCH, V. R.
Equilibrium studies for low-aspect-ratio torsatrons
[DE84-002264] 06 p0920 N84-15979
LYNN, C. W.
Cognitive information processing
22 p3684 N84-33360
LYNN, D. K.
Development of thermionic integrated circuits for applications in hostile environments
[DE84-011374] 21 p3393 N84-31533
LYNN, K. G.
Differences between positrons and electrons in elastic and inelastic processes at surfaces
[DE84-001208] 06 p0916 N84-15953
LYON, J. C.
Thematic Mapper image production in the engineering checkout phase 20 p3206 N84-30369
LYON, J. F.
Design of the Advanced Toroidal Facility (ATF-1)
[DE83-012641] 03 p0445 N84-12923
ATF-1 torsatron studies
[DE84-003314] 09 p1392 N84-19089
LYON, J. G.
Fast collisionless tearing in an anisotropic neutral sheet
[NASA-CR-175415] 11 p1737 N84-21331
MHD (Magnetohydrodynamic) simulation of a comet magnetosphere
[AD-A140208] 16 p2580 N84-26546
LYON, P.
A wide field-of-view CRT projection system with optical feedback for self alignment
[AD-P003447] 21 p3508 N84-32224
LYON, R. H.
Source signature recovery in reverberant structures
10 p1515 N84-19922
LYON, T. F.
Turbine engine exhaust hydrocarbon analysis, tasks 1 and 2
[AD-A131522] 01 p0012 N84-10074
Clean catalytic combustor program
[NASA-CR-168323] 06 p0789 N84-15151
LYON, W. S.
Positron spectroscopy applied to the analysis of surfaces
[DE82-008836] 01 p0038 N84-10238
LYONS, J. A.
Dynamic simulation of structural systems with isolated nonlinear components 10 p1510 N84-19885
LYONS, M. G.
Vibration Control Of Space Structures VCOSS A: High and low-authority hardware implementations
[AD-A139931] 15 p2281 N84-24702
ACOSS twelve (active control of space structures)
[AD-A143629] 23 p3701 N84-33458
LYONS, P. B.
Interactive modeling of scintillation pulses by visual overlay of computed pulse shapes with the raw data
[DE83-012668] 01 p0124 N84-10805
Radiation damage in optical fibers
[DE83-012740] 02 p0295 N84-11932
LYONS, T. J.
An application of fine potential theory to prove a Phragmen Lindeloef theorem 22 p3635 N84-33043
LYOTHIER, R.
Helicopter blade tips
[NASA-TM-77370] 06 p0782 N84-15119
LYSENKO, S. V.
Resistance of microorganisms from mesosphere to periodic freezing-thawing 22 p3630 N84-33001
LYSENKO, W. P.
RFQ simulation code
[DE84-011365] 21 p3387 N84-31499
LYSOGOROV, O. S.
High speed laser formation of small diameter apertures in printed circuit board blanks 24 p3874 N84-34547
LYTEL, R.
Theory of optical bistability in collinear degenerate four-wave mixing 14 p2238 N84-24434
LYTLE, F. W.
Multiple scattering effects in EXAFS (Extended X-ray Absorption Fine Structure): Comparison between theory and experiment for Pt metal
[AD-A142199] 19 p2989 N84-28941
LYTLE, R. J.
Computer assessment of electromagnetic means of detecting approaching cruise missile
[DE84-005115] 10 p1482 N84-19687
Alterant geophysical tomography
[DE84-004794] 11 p1671 N84-20907
Performance of Beverage antennas at low angles
[DE84-011163] 20 p3175 N84-30164
LYUBCHENKO, I. N.
Stability and electrokinetic potential of silicon carbide suspensions in aqueous organic media
[NASA-TM-77428] 10 p1454 N84-19494
LYUBCHENKO, N. P.
Synthesis and investigation of polyimidobenzimidazoles
[AD-A140184] 16 p2471 N84-25838
LYUBCHENKO, V. Y.
Electrodynamic analysis of active wave-guide slot line based on GaAs 17 p2631 N84-26830
LYUBIMKOV, L. S.
A model atmosphere analysis of the Am star 68 Tau
15 p2422 N84-25548
LYUBIN, V. M.
Impact of weak electric field on photoconductivity of modified vitreous As2Se3 20 p3286 N84-30867
LYULENKOV, V. I.
Optimization of parameters of electromechanical systems with mechanical balancing
[BLL-M-35442] 09 p1324 N84-18651
LYUTS, V. Y.
Stress-state index and Nadai-Lode parameter
[BLL-M-35433-(5828.4)] 08 p1169 N84-17612
LYYRA, A. M.
Atomic resonance and scattering
22 p3681 N84-33339
LYZENGA, D. R.
Measurement of ocean surface winds by SEASAT synthetic aperture radar
[AD-A138392] 12 p1836 N84-21971
Development of Great Lakes algorithms for the Nimbus-G coastal zone color scanner
[NASA-CR-173511] 17 p2711 N84-27258
SAR imagery of ocean-wave swell traveling in an arbitrary direction 17 p2714 N84-27278
Modeling of SAR signatures of shallow water ocean topography 17 p2718 N84-27302
The use of satellite and aircraft SAR to detect and chart hazards to navigation
[AD-A141658] 19 p3041 N84-29296
LYZHIN, D. O.
Method of calculating strong viscous interaction at delta wing 17 p2644 N84-26918

M

MA, C. K.
A mixed explicit-implicit antidiffusive method of Navier-Stokes equations for supersonic and hypersonic separated flows
[AD-A141010] 18 p2837 N84-28005
MA, D. C.
Sloshing response of a reactor tank with internals
[DE84-009629] 22 p3595 N84-32766
MA, G. J.
Vacuum ionic carburisation
[BLL-OA-TRANS-3149-(6196.3)]
08 p1122 N84-17291
MA, M. H.
Optimal file allocation problems for distributed data bases in unreliable computer networks, 2
[AD-P002913] 13 p1981 N84-22864
MA, S. D.
A parallel method for natural texture synthesis
[AD-A139889] 15 p2398 N84-25385
Synthesis of natural textures on 3-d surfaces
[AD-A139969] 15 p2407 N84-25452
MA, S. S. L.
The MHD stability of inertia-tied Z-pinches with application to solar coronal loops
04 p0596 N84-13932
MAANY, Z. A.
Low thrust orbit optimization for interplanetary missions, volume 1
[ESA-CR(P)-1904-VOL-1] 23 p3697 N84-33430
Low thrust orbit optimization for interplanetary missions, volume 2
[ESA-CR(P)-1904-VOL-2] 23 p3697 N84-33431
MAAS, A.
Kinematics of the structure and morphology during surface reactions between transition metals and molecular hydrogen 06 p0816 N84-15317
MAAS, W. M. B.
Flexural support member having a high ratio of lateral-to-axial stiffness
[DE84-011104] 23 p3761 N84-33839
MAASEIDE, K.
Preliminary results from the Heating Rocket (HERO) project: In situ measurements of ionospheric modifications using sounding rockets 05 p0636 N84-14183
MAASS, C. A.
Development and flight evaluation of an augmented stability active controls concept with a small horizontal tail
[NASA-CR-165951] 19 p2967 N84-28805
MAASSBERG, H.
Interactions between satellites and plasma
[NASA-TM-77476] 23 p3700 N84-33451
MABEY, D. G.
Experimental methods to determine control effectiveness in wind tunnels 01 p0013 N84-10087
Computer studies of hybrid-slotted working sections with minimum interference at subsonic speeds
[NASA-TM-86002] 22 p3535 N84-32379
MABEY, D. R.
Geothermal resources of southern Idaho
[USGS-CIRC-866] 14 p2168 N84-23988
MABRY, F.
The microcomputer knowledge base: Introduction and user instructions
[AD-A137694] 11 p1704 N84-21108
MABSON, G.
Computation of influence of defects on static and fatigue strength of composites 01 p0034 N84-10217
MACAIGNE
Industrielization of emitters modules, part 2
[SEP-TS/SE/BT/10457/83-PT-2]
16 p2475 N84-25866
MACAIONE, D. P.
Flammability characteristics of some epoxy resins and composites
[AD-A135282] 08 p1137 N84-17394
MACANDER, A. B.
Rubber-modified epoxy and glass laminates for application to naval ship structures
[AD-A133305] 06 p0798 N84-15204
MACARIO, A. J. L.
Methane producing bacteria: Immunological characterization 19 p3064 N84-29438
MACARTHUR, J. L.
The Navy Geosat mission radar altimeter satellite program 23 p3782 N84-33982
MACAYEAL, D. R.
Optimal measurement of ice-sheet deformation from surface-marker arrays
[NASA-CR-173877] 22 p3622 N84-32950
MACCAGNI, D.
Multifrequency observations of active galactic nuclei
24 p3972 N84-35152
MACCALLUM, C. J.
Development of a segmented n-type germanium detector, and its application to astronomical gamma-ray spectroscopy
[NASA-TM-85435] 03 p0461 N84-13039
MACCAMY, R. C.
A coordinate transformation for the porous media equation that renders the free-boundary stationary
[AD-A132839] 05 p0737 N84-14842
MACCARRONE, F.
Critical slowing-down in microwave absorptive bistability 14 p2237 N84-24429
MACCHETTO, F.
An atlas of UV spectra of supernovae
[ESA-SP-1046] 15 p2424 N84-25563
MACCOLL, D.
ESA activities in the use of microwaves for the remote sensing of the Earth 17 p2712 N84-27264
MACCONOCHIE, I. O.
Capture-ejector satellites
[NASA-TM-85686] 06 p0795 N84-15179
Shell tile thermal protection system
[NASA-CASE-LAR-12862-1] 18 p2817 N84-27886
MACCRACKEN, M. C.
Preliminary report on the global transport model GRANTOUR
[DE84-005596] 11 p1676 N84-20936
MACCRONE, R. K.
Excitonic solids
[AD-A135972] 09 p1396 N84-19115
Protective oxide films
[DE84-004088] 10 p1461 N84-19543
MACDIARMID, P. R.
Reliability growth testing effectiveness
[AD-A141232] 18 p2851 N84-28102
MACDONALD, D. A.
Black-hole electrodynamics 16 p2578 N84-26540
MACDONALD, D. D.
The influence of nitrogen on the sensitization, corrosion, mechanical and microstructural properties of stainless steels
[DE83-017203] 20 p3157 N84-30050
MACDONALD, H. C.
Digital color space transformations
23 p3779 N84-33960
MACDONALD, K. A. B.
Integrated Application of Active Controls (IAAC) technology to an advanced subsonic transpot project-demonstration act system definition
[NASA-CR-165920] 19 p2967 N84-28804
MACDONALD, M. J.
A CCD photometric camera for satellite observation
[AD-A137214] 11 p1660 N84-20833

MACDONALD, M. L.
Applications of the variational integral in iterative numerical solutions to the stationary heat equations
[AD-A141091] 19 p3083 N84-29563
MACDONALD, R. B.
Preliminary evaluation of Thematic Mapper image data quality 20 p3214 N84-30415
Spectral characterization of biophysical characteristics in a boreal forest: Relationship between Thematic Mapper band reflectance and leaf area index for Aspen 23 p3766 N84-33875
MACDORAN, P. F.
Satellite Emission Range Inferred Earth Survey (SERIES) project
[NASA-CR-173728] 18 p2791 N84-27714
MACDOUGALL, J.
Multifrequency observations of three active galaxies 24 p3972 N84-35151
MACDOUGALL, J. D.
An ancient depleted mantle source for Archean crust in Rajasthan, India 11 p1679 N84-20957
MACE, G.
Detailed system studies on rendezvous and docking. Part 1: Executive summary
[ESA-CR(P)-1894-PT-1] 23 p3697 N84-33428
MACEACHIN, J. M., JR.
Communication system studies for the submarine laser communications system
[AD-A135661] 09 p1301 N84-18504
MACEDOMOURA, M. S. S.
Meteor showers effects in the low terrestrial ionosphere detected at VLF ionosonde and long distance propagation paths
[INPE-3242-PRE/588] 24 p3990 N84-35246
MACEK, J.
Hyperspherical coordinate theory of 2 electron atomic processes
[DE84-009447] 19 p3102 N84-29705
MACEK, W.
Comment on the observed plasma densities in Jupiter's distant magnetotail (wake); a possible explanation
[IFSI-83-2] 03 p0465 N84-13062
MACENKA, S., J.
Airborne Visible/Infrared Imaging Spectrometer (AVIRIS): An advanced tool for Earth remote sensing 23 p3781 N84-33976
MACEWEN, J. D.
Toxic Hazards Research Unit report, 1983
[AD-A136170] 09 p1362 N84-18896
MACFARLANE, J. J.
Theoretical predictions for the phase stability of dense binary mixtures 13 p2072 N84-23428
MACGORMAN, D. R.
Severe storm electricity 24 p3927 N84-34860
MACGREGOR, K. B.
Theory of winds in late-type evolved and pre-main-sequence stars 03 p0468 N84-13085
MACGREGOR, W. I.
Cronus, A distributed operating system: Functional definition and system concept
[AD-A142795] 21 p3462 N84-31950
MACH, K. D.
The GRAPHIX library - A collection of interaction graphics routines for the Tektronix 4014
[AD-A135757] 09 p1368 N84-18932
MACH, M. H.
Navy mobility fuels evaluation
[AD-A144171] 24 p3890 N84-34630
MACHIKIN, V. I.
The melting of iron containing reduced amounts of non-ferrous metal impurities
[BLL-M-35209-(5828.4)] 01 p0041 N84-10259
MACHIN, A. S.
The use of interference-fit bolts or bushes and hole cold expansion for increasing the fatigue life of thick-section aluminium alloy bolted joints
[AR-002-973] 09 p1329 N84-18676
How many specimens? An aid in the design of fatigue test programs
[AD-A142810] 21 p3422 N84-31704
Improving the fatigue life of the Mirage IIIO wing main spar
[ARL-STRUC-REPT-398] 24 p3853 N84-34437
MACHLES, G. W.
Study of auxiliary propulsion requirements for large space systems. Volume 1: Executive summary
[NASA-CR-168193-VOL-1] 03 p0343 N84-12226
Study of auxiliary propulsion requirements for large space systems, volume 2
[NASA-CR-168193-VOL-2] 04 p0490 N84-13218
MACHUREK, A. L.
Developments in science and technology
[JHU/APL/DST-10] 11 p1761 N84-21491
MACIE, T.
Photovoltaic power conditioning subsystem: State of the art and development opportunities
[NASA-CR-173458] 12 p1842 N84-22009
MACINA, R.
New profilable bond system for diamond and CBN grinding wheels
[CSIR-TRANS-1707] 06 p0813 N84-15294
MACINTOSH, N. B.
The nature and use of formal control systems for management control and strategy implementation
[AD-A139083] 14 p2247 N84-24493
MACIULAITIS, A.
Mach 0.6 to 3.0 flows over rectangular cavities
[AD-A134579] 06 p0782 N84-15121
Mach 0.6 to 3.0 flows over rectangular cavities
[AD-A134579] 07 p0948 N84-16153
MACK, D. P.
Preparation and properties of polyurethane and polyurethaneurea elastomers from methylene bis(4-cyclohexylisocyanate)
[AD-A137645] 11 p1637 N84-20704
MACK, E. J.
Results from wind tunnel and artificial rainfall tests of the modified scan sensor
[AD-A133238] 06 p0792 N84-15162
An evaluation of marine fog forecast concepts and a preliminary design for a marine obscuration forecast system
[AD-A136379] 09 p1348 N84-18808
The feasibility of using precursor aerosol parameters to predict visibility in fog and haze
[AD-A137141] 10 p1539 N84-20084
The role of vegetation in the low-level water budget in fog
[AD-A139099] 14 p2179 N84-24051
Aerosol characteristics on the Alboran sea, 9-18 october 1982
[AD-A139892] 15 p2371 N84-25227
MACK, L. M.
Boundary-layer linear stability theory 23 p3748 N84-33759
MACK, M. A.
The discrimination of pitch in pulse trains and speech
[AD-A142996] 21 p3492 N84-32127
MACK, R. B.
Communications Support Processor (CSP)
[AD-A130360] 01 p0064 N84-10419
MACKALL, D. A.
Design implications from AFTI/F-16 flight test
[NASA-TM-86026] 05 p0632 N84-14157
AFTI/F-16 digital flight control system experience 11 p1619 N84-20592
MACKALL, K.
Acoustic flight testing of advanced design propellers on a JetStar aircraft 18 p2783 N84-27661
MACKAY, G. I.
Measurement of NO, NO/sub 2, and HNO/sub 3 using a tunable diode laser system. Phase 2: Modification to permit automated simultaneous multi-species monitoring and feasibility study of extension to H/sub 2O/sub 2, CH/sub 2O and HONO
[PB84-160076] 14 p2151 N84-23890
MACKAY, M. K.
Active control of large flexible space structures 05 p0644 N84-14235
MACKAY, R. A.
Diffusion measurements in microemulsions
[AD-A133801] 05 p0648 N84-14265
Factors which influence directional coarsening of Gamma prime during creep in nickel-base superalloy single crystals
[NASA-TM-83595] 08 p1131 N84-17353
MACKELPRANG, C. E.
Results of a detailed gravity survey in the Alamosa area, Alamosa County, Colorado
[DE84-012188] 21 p3444 N84-31853
MACKENZIE, E.
Modelling of ionospheric irregularities and total electron content
[AD-A141236] 18 p2880 N84-28284
MACKENZIE, F. D.
Panama Canal Fog Navigation Study: Candidate system definition
[PB84-180793] 20 p3249 N84-30624
Panama Canal Fog Navigation Study: System requirements statement
[PB84-179811] 20 p3249 N84-30625
A survey of state-of-the-art LORAN-C receivers
[AD-A144199] 24 p3853 N84-34434
MACKENZIE, J. D.
Ceramic-to-metal bonding for pressure transducers
[NASA-CR-173500] 13 p1963 N84-22753
MACKIE, D. B.
A comparison of parameter estimation results from flight test data using linear and nonlinear maximum likelihood methods
[DFVLR-FB-84-06] 16 p2449 N84-25708
MACKINNON, I. D. R.
Toward a complete inventory of stratospheric dust particles with implications and their classification 11 p1756 N84-21464
AEM of extraterrestrial materials
[NASA-CR-167781] 17 p2777 N84-27630
MACKINNON, M. J.
Fan noise reduction achieved by removing tip flow irregularities behind the rotor - forward arc test configurations
[NASA-TM-83616] 13 p2040 N84-23235
MACKLIN, J. T.
Direct and inverse methods for ocean-wave imaging by SAR 23 p3783 N84-33995
MACKLIN, S. A.
METLIB-2: A program library for calculating and plotting atmospheric and oceanic fields
[PB84-205434] 21 p3450 N84-31890
Bering Air-Sea-Ice Study (BASICS), February and March, 1981
[PB84-196161] 22 p3615 N84-32903
MACKNIGHT, W. J.
Interurethane hydrogen bonding in thermoplastic polyurethane elastomers
[AD-A131368] 02 p0200 N84-11300
MACLENNAN, B. J.
Relational programming
[AD-A133643] 05 p0728 N84-14779
A computer science version of Goedel's theorem
[AD-A132903] 05 p0730 N84-14790
MACLENNAN, C. G.
Dependence of hydromagnetic energy spectra on interplanetary parameters
[AD-A138745] 13 p2036 N84-23209
MACLEOD, H.
Kinetic studies of atmospheric reactions of OH radicals 13 p2012 N84-23050
MACMILLAN, N. H.
Mechanisms of wear in single and two-phase materials
[DE83-014651] 01 p0091 N84-10592
MACMURRAY, A. C.
On-line monitoring guide for technical personnel
[AD-A131044] 01 p0159 N84-11047
Technology assessment: 1983 forecast of future test technology requirements
[AD-A132421] 04 p0623 N84-14107
MACNAUGHTON, M. G.
Rationale for a Threshold Limit Value (TLV)R for JP-4/Jet B wide cut aviation turbine fuel
[AD-A134814] 08 p1201 N84-17827
MACOMBER, M. M.
Development of a digital mapping program at the Defense Mapping Agency
[AD-A140329] 16 p2511 N84-26113
MACPHERSON, G. L.
Geothermal potential along the Balcones/Ouachita trend, central Texas: Ongoing assessment and selected case studies
[DE84-010826] 20 p3241 N84-30578
MACPHERSON, J. I.
Flight tests of instrumentation for airborne carbon dioxide flux measurement
[AD-A135856] 09 p1342 N84-18767
Theoretical and measured airflow about the Twin Otter wing
[AD-A141974] 20 p3126 N84-29855
MACROBERTS, M. D. J.
Electronics Division research and development
[DE84-011024] 20 p3180 N84-30200
MACSITHIGH, G. P.
Helical shear of an elastic circular tube with non-convex stored energy 15 p2313 N84-24682
MADAN, S.
Poisson integrals of absolutely continuous and other measures
[CTH-MATH-1983-10] 13 p2036 N84-23210
On the A-integrability of singular integral transforms 22 p3635 N84-33042
MADAUSS, B. J.
Profitability improvement of projects by early consideration of life cycle cost reduction
[MBB-UR-620-83-O] 14 p2247 N84-24495
Project management in the 80's
[MBB-UR-631-83-O] 16 p2564 N84-26454
MADAVAN, N. K.
The effects of porous material on microbubble skin friction reduction
[AD-A143401] 22 p3593 N84-32756

MADDALON, D. V.
Airframe technology for aircraft energy efficiency
[NASA-TM-85749] 09 p1249 N84-18154
MADDEN, R. P.
Project for improved performance of radiometric standard detectors (110-360 nm)
[PB83-224014] 01 p0085 N84-10556
MADDOCKS, R. P.
A study of the action of an airgun
[BU-296] 16 p2454 N84-25734
MADDOX, J.
Upgrading and performance of the SAO laser ranging system in Matera
[NASA-CR-173176] 07 p1009 N84-16543
MADDOX, L. W.
Analysis of electric propulsion orbit transfer vehicles versus IUS, CENTAUR-G, and a reuseable bipropellant system
[AD-A141173] 18 p2808 N84-27827
MADDOX, R. A.
Multi-scale analyses of meteorological conditions affecting Pan American World Airways flight 759
[PB83-222562] 01 p0006 N84-10040
MADDOX, W. L.
Diode laser spectrophotometry for monitoring acetylene on-line in a liquefaction plant
[DE84-002117] 06 p0851 N84-15548
MADDREA, G. L., JR.
Airborne measurements of launch vehicle effluent of STS-2 launch on November 12, 1981 at Cape Canaveral, Florida
[NASA-TP-2260] 09 p1342 N84-18764
MADDUX, A. S.
Design of a high-performance slide and drive system for a small precision machining research lathe
[DE84-011059] 22 p3606 N84-32845
MADEJ, J.
Model stellar atmosphere and spectrum computations with minicomputer 15 p2423 N84-25555
MADEY, J. M. J.
Investigation of optimum magnet geometries for gain-expanded free-electron lasers
[AD-A136494] 09 p1321 N84-18634
Experimental investigation of the characteristics of an ultraviolet storage ring laser
[AD-A137751] 11 p1662 N84-20847
New results of the ACO storage ring free electron laser
[AD-A137785] 11 p1663 N84-20848
Anomalous laser induced bunch lengthening on the ACO storage ring free electron laser
[AD-A138814] 13 p1995 N84-22949
MADEY, T. E.
Electron emission and ion desorption spectroscopy of clean and oxidized Ti(0001)
[AD-A141319] 18 p2930 N84-28579
MADHUKAR, A.
Studies of the electronic properties of two-dimensionally confined carriers in MIS (Metal-Insulator-Semiconductor) Inversion/Accumulation layers, heterojunctions and quantum wells
[AD-A134094] 05 p0752 N84-14935
Scientific report on the International Conference on Metastable and Modulated Semiconductor Structures (MMSS) held at Pasadena, California on 6-10 December 1982
[AD-A136204] 09 p1396 N84-19121
MADHI, A. M.
Operator alertness/workload assessment using stochastic model-based analysis of myoelectric signals
[AD-A144535] 24 p3937 N84-34921
MADONNA, R. G.
Space environment effects (M0006)
15 p2279 N84-24690
MADRONERODELACAL, A.
Status of fiber reinforced materials
06 p0799 N84-15209
MADSEN, A. P.
Design of advanced technology maneuvering aircraft models for the National Transonic Facility
14 p2096 N84-23590
Design study of test models of maneuvering aircraft configurations for the National Transonic Facility (NTF)
[NASA-CR-3827] 23 p3696 N84-33422
MADSEN, D. J.
Dynamic characteristic of intense short microwave propagation in an atmosphere
[DE84-002788] 21 p3367 N84-31496
MADSEN, J.
Brighter H(-) source for the intense pulsed neutron source accelerator system
[DE84-003608] 07 p1072 N84-16965
MADSEN, N. K.
MOLAG: A method of lines adaptive grid interface for nonlinear partial differential equations
[DE84-009161] 15 p2399 N84-25396
MADSON, C. A.
NBS (National Bureau of Standards) Workshop: Environmental Control for Archival Records Storage
[PB83-242230] 03 p0460 N84-13026
MADYANOV, S. A.
Martensitic transformations, relaxation and acoustic-emission properties of some alloys of the Fe-Ni-Mn system
[BLL-M-35434-(5828.4)] 09 p1281 N84-18363
MAECKER, H.
Measurement and evaluation of arc characteristics (Ar,N2)
[NASA-TM-77507] 24 p3965 N84-35106
MAEDA, M. W.
Optical propagation and communication
22 p3683 N84-33355
MAEDA, N.
VISSR IR grid data processing
24 p3922 N84-34821
MAEDA, R.
Updated process flowsheets for manganese nodule processing
[PB83-226340] 01 p0047 N84-10303
MAEDA, T.
Development of a new, completely implantable intraventricular pressure meter and preliminary report of its clinical experience
[NASA-TM-77121] 16 p2535 N84-26276
MAEDA, Y.
Neutrino-oscillation experiments at Brookhaven National Laboratory
[DE83-018275] 04 p0528 N84-13476
Polycrystalline silicon sheets for solar cells by the improved spinning method 18 p2937 N84-28626
MAEDER, P. F.
Two-phase fluid flow through nozzles and abrupt enlargements
[DE84-006991] 12 p1816 N84-21841
An investigation of single-substance horizontal two-phase flow
[DE84-012292] 21 p3403 N84-31587
MAEHLUM, B. N.
Ionospheric modification by electron beams. Results from electron accelerator experiments on rockets in Norway 05 p0637 N84-14188
The experiment Phenomena Induced by Charged Particle Beams (PICPAB) on board Spacelab 1
05 p0641 N84-14220
MAEKINEN, J.
Reports on cartography and geodesy. Series 2: Translations, number 41. Report on high precision gravimetry, volume 2
[ISSN-0469-4244] 19 p3043 N84-29306
MAELZER, H.
Recent crustal movements 10 p1520 N84-19952
MAENO, N.
MEM spectrum analysis of snow densities
15 p2351 N84-25117
MAENO, Y.
Period-doubling 2-torus state in a convecting He-3-superfluid He-4 solution
[DE84-009985] 22 p3666 N84-33243
Onset of oscillations in symmetric convective states in a superfluid He-3-He-4 mixture
[DE84-009984] 22 p3666 N84-33244
MAESHIRO, A.
Integrated Application of Active Controls (IAAC) technology to an advanced subsonic transport project: Current and advanced act control system definition study, volume 1
[NASA-CR-165631-VOL-1] 19 p2967 N84-28802
Integrated Application of Active Controls (IAAC) technology to an advanced subsonic transport project: Current and advanced act control system definition study. Volume 2: Appendices
[NASA-CR-165631-VOL-2] 19 p2967 N84-28803
MAEST, A. S.
The organic geochemistry of deep ground waters and radionuclide-partitioning experiment: Under hydrothermal conditions
[DE83-015784] 04 p0554 N84-13651
MAESTRELLO, L.
Apparatus and method for jet noise suppression
[NASA-CASE-LAR-11903-2] 05 p0742 N84-14873
MAFFETT, A. L.
The APL RCS (Radar Cross Section)/statistics code description, illustrations of output, and user's guide
[AD-A142929] 21 p3386 N84-31490
MAGAARD, L.
The Role of Eddies in the General Ocean Circulation: Proceedings of Aha Huliko's Hawaiian Winter Workshop
[AD-A137212] 11 p1689 N84-21014
On the driving of ocean currents by Rossby waves
[AD-P002659] 11 p1690 N84-21024
MAGATANI, R.
User's guide for SBUV/TOMS ozone derivative products
[NASA-RP-1116] 07 p1036 N84-16720
MAGDALENO, R. E.
Flexible aircraft flying and ride qualities
11 p1615 N84-20572
MAGEDSON, R. L.
Modeling concepts for communication of geometric shape data 12 p1875 N84-22217
MAGEE, J. W.
Phase and volumetric studies for methane/synthesis gas separations: The hydrogen-carbon monoxide-methane system
[PB84-214394] 21 p3375 N84-31417
MAGEL, R.
Robust estimates of ordered parameters
[AD-A131204] 02 p0282 N84-11846
Tests for and against trends among Poisson intensities
[AD-A131212] 02 p0285 N84-11868
MAGETTE, E.
Space simulation testing of the Earth Radiation Budget Satellite (ERBS) 24 p3861 N84-34471
MAGGI, M.
An oscillating capacity electrometer for space applications
[IFSI-84-6] 18 p2807 N84-27823
MAGGIORE, C. J.
Microprobe analyses of rare-earth-element fractionation in meteoritic minerals
[DE83-017326] 04 p0621 N84-14097
MAGGS, J. E.
Solutions of a 4th order differential equation describing mode conversion in a magnetized plasma
[AD-A131600] 02 p0281 N84-11840
Ohmic heating of the polar f-region by HF (High Frequency) pulse
[AD-A135946] 09 p1345 N84-18789
MAGIDA, M.
Engineering and design properties of thallium-doped sodium iodide and selected properties of sodium-doped cesium iodide
[NASA-RP-1131] 23 p3726 N84-33613
MAGILL, P. D.
Laser diagnostic development and measurement and modeling of turbulent flowfields of jets and wakes. Part 1: Two-dimensional laser Doppler anemometer studies of isothermal flowfield in a ducted centerbody combustor
[AD-A134691] 08 p1158 N84-17542
MAGISTRIS, A.
Borophosphate vitreous electrolytes: The relationship between local order, thermal stability and ion transport
11 p1743 N84-21372
MAGLARIS, B.
Research in network management techniques for tactical data communications networks
[AD-A131357] 02 p0209 N84-11365
MAGNANTI, T. L.
Worst case performance of some heuristics for lot size problems
[INPE-3134-PRE/525] 23 p3817 N84-34205
MAGNIEN, F.
Computer symbol generator and control panel for an integrated cockpit color display information system
[BMFT-FB-W-83-007] 02 p0179 N84-11169
MAGNOTTI, F.
A comprehensive model to determine the effects of temperature and species fluctuations on reaction rates in turbulent reaction flows
[NASA-CR-175365] 08 p1155 N84-17520
MAGNUS, A. E.
PAN AIR: A computer program for predicting subsonic or supersonic linear potential flows about arbitrary configurations using a higher order panel method. Volume 1: Theory document (version 1.1)
[NASA-CR-3251] 18 p2788 N84-27697
MAGNUSON, D. M.
Use of fiber optics and laser-induced fluorescence for remote measurements of UF6 in strong rotation
[DE83-014195] 01 p0088 N84-10575
MAGNUSON, R. H.
Surface-Enhanced Raman Scattering for redox-active adsorbates: Pentaammineosmium (3)/(2) and Pentaammineruthenium (2) containing nitrogen heterocycle ligands
[AD-A142418] 20 p3148 N84-29987
MAGNUSON, W. G., JR.
The 2nd European Conference on Computer Aided Design in Small and Medium-Size Industries
[AD-A129389] 06 p0897 N84-15821
MAGNUSSON, H.
Study of wind scatterometer antenna for ERS-1. Volume 1: Executive summary report
[Y/A-3380] 13 p2017 N84-23080

Study of windscatterometer antenna for ERS-1
[MIX/A-3188] 13 p2018 N84-23081
MAGNUSSON, H. G.
Ku-Band rendezvous radar performance computer simulation model
[NASA-CR-171804] 22 p3576 N84-32650
MAGOME, K.
Spectroscopy in heliotron E 11 p1735 N84-21320
MAGOON, L. B.
Petroleum source rock richness, type and maturity for four rock units on the Alaskan North Slope: Are they sources for the two oil types? 14 p2164 N84-23961
MAGOTT, R. J.
Revision and experimental verification of the hazard assessment computer system models for spreading, movement, dissolution, and dissipation of insoluble chemicals spilled onto water, volume 1
[AD-A140635] 17 p2724 N84-27337
MAGOWAN, J. M.
An investigation into anti-swirl devices for s-shaped air intakes
[BU-293] 15 p2256 N84-24549
MAGRAB, E. B.
Determination of the viscoelastic shear modulus using forced torsional vibrations
[PB84-119700] 08 p1173 N84-17638
MAH, C. P.
Operational test and evaluation of the meter engineering development model
[AD-A125166] 07 p1007 N84-16532
MAHADEVAN, P.
Electrostatic filtration of N2O4 for removal of solid and vapor contaminants 20 p3138 N84-29922
Atomic beam system for laboratory simulation of upper atmosphere oxygen atom impact on STS surfaces 24 p3863 N84-34485
MAHAFFEY, J. E.
Protective linear materials for transparent plastics
[AD-P003204] 17 p2592 N84-26617
MAHAJAN, B. M.
Results from the NBS passive test building: A status report 16 p2514 N84-26135
MAHAJAN, S.
Performance of passive solar and energy conserving houses in California
[SERI/STR-254-2017] 23 p3790 N84-34039
Documentation of data processing procedures and extension of Class B data analysis
[SERI/STR-254-2085] 23 p3815 N84-34189
MAHAJAN, S. M.
Variational theory of RF-driven currents
[DE83-016745] 04 p0609 N84-14022
Nonlinear trapped electron response for drift wave turbulence in Tokamaks
[DE84-005385] 11 p1737 N84-21335
MAHAJAN, V.
ACOSS eleven (Active Control Of Space Structures), volume 1
[AD-A140025] 15 p2282 N84-24703
ACOSS eleven (Active Control Of Space Structures), volume 2
[AD-A140026] 15 p2282 N84-24704
MAHAN, J. R.
A critical review of noise production models for turbulent, gas-fueled burners
[NASA-CR-3803] 16 p2554 N84-26384
MAHANEY, J.
Self-shadowing of orbiting trusses
[NASA-CR-173215] 07 p1012 N84-16565
MAHASUVERACHAI, M.
Inelastic analysis of piping and tubular structures
[PB83-249987] 04 p0550 N84-13623
MAHATO, B.
Effect of antimony on lead-acid battery negative electrode
[DE83-014680] 03 p0369 N84-12404
MAHER, F. A.
Models of maintenance resources interaction: Peacetime operations
[AD-A131379] 03 p0457 N84-13011
MAHER, J. T.
Prevention of acute mountain sickness by dexamethasone
[AD-A131533] 01 p0114 N84-10737
Increased metabolism and dead space as components of ventilation at high altitude
[AD-A130827] 06 p0887 N84-15766
Variable inhibition by falling CO2 of hypoxic ventilatory response in man
[AD-A130658] 06 p0887 N84-15768
Anthropometric changes at high altitude
[AD-A140311] 16 p2535 N84-26277
MAHESH, J. K.
Interactive flight control system analysis program
[NASA-CR-172352] 19 p2968 N84-28807
MAHIN, K. W.
The yield stress and strain-rate sensitivity of nickel over a wide temperature range
[DE83-016913] 02 p0197 N84-11279
Development of high strength braze joints in beryllium
[DE84-007243] 13 p1998 N84-22964
MAHIN, S. A.
Interactive computer analysis methods for predicting the inelastic cyclic behaviour of structural sections
[PB84-192012] 20 p3205 N84-30358
MAHLEIN, H. F.
Optical multiplexers and demultiplexers for optical wavelength-division multiplex transmission systems
[BMFT-FB-T-83-167] 05 p0748 N84-14912
MAHONEY, A. R.
Development of a portable specular reflectometer for monitoring solar-mirror materials
[DE83-016065] 03 p0442 N84-12901
MAHONEY, J.
Development of molten carbonate fuel cell technology
[DE84-004856] 15 p2364 N84-25183
MAHONEY, J. P.
Sulfur extended asphalt pavement evaluation in the State of Washington: SR 270 highway pavement performance report
[PB83-205567] 01 p0058 N84-10380
Sulfur extended asphalt pavement evaluation: Executive summary
[PB83-205971] 01 p0058 N84-10381
MAHONEY, L. R.
Time-temperature studies of high temperature deterioration phenomena in lubricant systems: Synthetic ester lubricants
[AD-A135464] 08 p1166 N84-17594
MAHOY, J. O.
Contractor fraud: Government response
[AD-P002833] 13 p2063 N84-23378
MAHRENHOLTZ, O.
On geometrical accuracy in precise metal forming 15 p2308 N84-24845
MAHRT, L.
A boundary layer parameterization for a general model
[AD-A144224] 24 p3915 N84-34791
MAIANI, L.
Search for excited quarks
[PREPRINT-383] 23 p3823 N84-34246
MAIER, H.
Civil applications of infrared techniques
[BMFT-FB-T-83-132] 02 p0267 N84-11753
MAILE, K.
Influence of deformation behavior, oxydation, and temperature on the long time cyclic stress behavior of high temperature steels
[MPA-82-02] 09 p1334 N84-18710
MAILLARD, A.
Irradiation creep of solution annealed and coldworked 316 stainless steel
[DE84-780404] 24 p3885 N84-34613
MAILLAT, M.
Moisture resistant MoS2-based composite lubricant films 09 p1296 N84-18468
Lubrication of mountings subject to contact corrosion 09 p1296 N84-18469
MAILLOUX, R. J.
Grating lobe characteristics of arrays with uniformly illuminated contiguous subarrays
[AD-A142332] 19 p3009 N84-29072
MAIN, B. A.
SNOW-ONE-A and B characterization measurements and data analysis
[AD-A141245] 18 p2890 N84-28345
MAIN, G. L.
Effects of reflections and trapped ions on the thermionic emitter sheath
[DE83-010233] 01 p0150 N84-10868
MAIN, H. A.
Training acquisition personnel through a local college
[AD-P002766] 13 p2052 N84-23313
MAINE, R. E.
Practical aspects of modeling aircraft dynamics from flight data 11 p1616 N84-20575
MAINGUY, A. M.
Optimizing the maneuvers of an observation satellite for rapid overflight of a precise point on Earth 15 p2268 N84-24617
MAIRSON, H. G.
The program complexity of searching a table
[AD-A135299] 06 p1240 N84-18104
MAISEL, J. E.
Preliminary investigation of an electrical network model for ultrasonic scattering
[NASA-CR-3770] 08 p1168 N84-17606
MAISEL, M. D.
Airloads on bluff bodies, with application to the rotor-induced downloads on tilt-rotor aircraft
[NASA-TM-84401] 02 p0174 N84-11142
MAISONNEUVE, J. M.
Study of the onboard calibration equipment of the HRV camera
[ESA-TT-794] 06 p0848 N84-15529
MAITI, H. S.
Transport properties of fluorite oxides 11 p1740 N84-21355
MAIYA, P. S.
Effects of nominal and crack-tip strain rate on IGSCC susceptibility in CERT tests
[DE84-004006] 08 p1135 N84-17378
Evaluation of stainless steel pipe cracking: Causes and fixes
[DE84-003459] 09 p1285 N84-18391
MAJCHRZAK, A.
Computer-automated technological innovation in three manufacturing sectors
[AD-P003309] 18 p2909 N84-28450
MAJDA, G.
Analysis of shear strain localization in thermal visco-plastic materials
[AD-A138186] 12 p1798 N84-21727
MAJER, E. L.
Seismological studies at the Cerro Prieto field, 1978 - 1982
[DE83-013844] 02 p0250 N84-11633
MAJER, V.
The factorization method for two points boundary value problems for ODE's and its relation to the finite difference method
[AD-A141829] 19 p3088 N84-29604
MAJEROWICZ, S.
Acoustic emission determination of deformation mechanisms leading to failure of naval alloys, volume 1
[AD-A135387] 08 p1171 N84-17626
Acoustic emission determination of deformation mechanisms leading to failure of naval alloys, volume 2
[AD-A135388] 08 p1171 N84-17627
MAJEWSKI, W.
Trends in the development of teleinformatics
[AD-A131067] 03 p0359 N84-12338
MAJEWSKI, W. D.
Project: Acquisition strategy
[AD-P002809] 13 p2059 N84-23355
MAJIDZADEH, K.
Mechanistic methodology for airport pavement design with engineering fabrics. Volume 1: Theoretical and experimental base
[DOT/FAA/PM-84-9.1] 24 p3857 N84-34450
MAJJIGI, R. K.
Free jet feasibility study of a thermal acoustic shield concept for AST/VCE application: Single stream nozzles
[NASA-CR-3758] 19 p3096 N84-29661
MAJKA, R.
Trigger systems which could operate at a luminosity of 10/sup 33 cm(-2) to sec/sup -1 06 p0911 N84-15918
MAJKA, R. J.
Soil characterization and evaluation at White Sands Missile Range, New Mexico
[AD-A134820] 08 p1108 N84-17206
MAJOR, W. R.
Fuel cell power systems for Navy applications
[AD-A143402] 22 p3618 N84-32923
MAJUMDAR, D.
A collection of A-optimal designs for control-test treatment comparisons, part 1
[AD-A129322] 01 p0132 N84-10666
MAJUMDAR, P. N.
The instability of oscillatory Ekman boundary-layer flow 05 p0710 N84-14655
MAJUMDAR, S.
Liquid metal breeder-coolant blanket concept
[DE84-006554] 20 p3302 N84-30971
MAKARENKO, A. A.
Microwave phase modulators using semiconductor diodes (survey) 21 p3380 N84-31448
MAKARENKO, N. V.
Physiological assessment of capacity for processing increasing amounts of visual information by human operators 17 p2740 N84-27398
MAKAROV, G. I.
Problems of diffraction and propagation of waves (selected articles)
[AD-A143912] 23 p3731 N84-33650
MAKAROV, I. Y.
Generation of reactive stresses in TiNi alloy 24 p3875 N84-34556
MAKAROV, N. A.
Quasi-two-day variation of lower thermosphere wind velocities 20 p3224 N84-30488

MAKAROV, S. B.
On the electrochemical precipation of titanium coatings
[BLL-OA-TRANS-3028-(6196.3)] 01 p0043 N84-10274
MAKEYEVA, G. S.
Electrodynamic analysis of active wave-guide slot line based on GaAs 17 p2631 N84-26830
MAKHAMEDIYEVA, L. N.
Sanitary and hygienic features of cabin environment in Salyut-7 orbital station 15 p2375 N84-25253
MAKHOUL, J.
Research in continuous speech recognition
[AD-A136990] 10 p1482 N84-19682
MAKIYENKO, E. V.
Determining optical characteristics of stratospheric aerosol by multifrequency laser sounding method 11 p1670 N84-20900
MAKKONEN, L.
Atmospheric icing on sea structures
[AD-A144448] 24 p3934 N84-34903
MAKO, F. M.
Numerical simulation of high energy light ion beam flow through a foilless diode
[AD-A131001] 02 p0289 N84-11892
A broadband high power millimeter to centimeter spectrometer
[AD-A131629] 02 p0294 N84-11927
Simulation studies on a novel betatron injection scheme
[DE84-001337] 04 p0598 N84-13946
External injection into a high current modified betatron accelerator
[AD-A134694] 08 p1229 N84-18030
The modified betatron accelerator experiment
[AD-A137447] 10 p1576 N84-20328
Collective ion acceleration by a reflexing electron beam: Model and scaling
[AD-A141241] 18 p2929 N84-28577
Spectrum analyzer and analysis method for measuring power and wavelength of electromagnetic radiation
[AD-D011044] 19 p3027 N84-29198
In-line, concurrent electromagnetic beam analyzer
[AD-D011040] 19 p3102 N84-29704
MAKOWITZ, H.
Study of limiter damage in a magnetic-field error region of the ZT-40M experiment
[DE84-001711] 05 p0750 N84-14924
MAKOWSKI, M. A.
Drift wave studies in a linear multiple mirror
[DE83-016881] 03 p0449 N84-12951
MAKSAKOV, N. F.
Radiochannel with curved antenna utilizing three-dimensional excitation 17 p2632 N84-26836
MAKSHTAS, A. P.
Reports of the U.S. - U.S.S.R. Weddell Polynya Expedition, October-November 1981. Volume 7. Surface-level meteorological data
[AD-A134476] 07 p1041 N84-16747
Estimation of parameters of spray clouds
[BLL-TRANS-1571-(9022.552)] 08 p1190 N84-17752
MAKSIMENKO, O. I.
Ionospheric effect of partial solar eclipse of 31 July 1981 17 p2704 N84-27224
MAKSIMOV, D. G.
Reliability and efficiency of Kubicek rheographic method for monitoring cardiac output and stroke volume 20 p3253 N84-30644
MAKSIMOV, E. V.
Movement of free-flowing materials in aerodynamic controlled-feed gate 09 p1324 N84-18652
MAKSIMOV, V. P.
Laminarization of a boundary layer in a supersonic nozzle by cooling of the surface
[NASA-TM-77341] 05 p0626 N84-14119
MAKSYMIUK, C. M.
A computer program for estimating the aerodynamic characteristics of NACA 16-series airfoils
[NASA-TM-85696] 02 p0174 N84-11145
MAKUSHEVA, N. A.
Hardening alloy surfaces by laser irradiation 24 p3869 N84-34518
MAL, A. K.
Project scattering of elastic waves
[DE83-013574] 01 p0066 N84-10444
MALACHESKY, P. A.
Microprocessor-based control system for flowing-electrolyte zinc-bromine battery systems
[DE83-012506] 03 p0369 N84-12403
Development of a circulating zinc-bromine battery, phase 2
[DE84-001886] 04 p0527 N84-13463
MALACINSKI, G. M.
Polarity of the amphibian egg 02 p0263 N84-11731
Cytoplasmic rearrangements associated with amphibian egg symmetrization 09 p1357 N84-18867
MALAGA, A.
Adaptive techniques for troposcatter
[AD-A142226] 19 p3008 N84-29066
Theoretical analysis of microwave propagation
[AD-A143762] 23 p3731 N84-33647
MALAGNINI, M. L.
An automatic fitting procedure for comparing observed and computed spectral distributions 09 p1408 N84-19200
A classification algorithm for star-galaxy counts 09 p1409 N84-19207
Standard stars: Automatic line identification of IUE high resolution spectra 24 p3961 N84-35225
MALAIYA, Y. K.
Testability of VLSI (Very Large Scale Integration) leakage faults in CMOS (Complementary Metal Oxide Semiconductor)
[AD-A136978] 13 p2047 N84-23281
MALAKHOV, N. S.
Functional status of operators and its systemic and technical determinants 18 p2895 N84-28369
MALARA, D.
Use of a small scale wind tunnel and model shop at Aeronautica Macchi as an industrial tool 14 p2097 N84-23585
MALARET, E.
LANDSAT-4 MSS and TM spectral class comparison and coherent noise analysis 20 p3208 N84-30381
Spatial resolution estimation of LANDSAT-4 TM data 20 p3210 N84-30394
LANDSAT-4 MSS and Thematic Mapper data quality and information content analysis 23 p3766 N84-33871
MALASSINE, M. B.
Qualities of SEP ceramic-ceramic Cerasep composites 13 p2038 N84-23225
MALAY, J. T.
Sound propagation through a moderate coastal upwelling: Comparison of modeling prediction with experimental data
[AD-A133782] 05 p0742 N84-14876
MALCOLM, G. N.
Subsonic high-angle-of-attack aerodynamic characteristics of a cone and cylinder with triangular cross sections and a cone with a square cross section
[NASA-TM-84377] 01 p0003 N84-10019
MALCOLM, P. R.
The electron Echo 6 mechanical deployment systems 15 p2348 N84-25094
MALDONADO, J. C.
An on-board control and supervision system for multiple space mission applications is considered
[INPE-2824-PRE/378] 02 p0208 N84-11354
An on board control and supervisory system
[INPE-2812-TDL/139] 02 p0208 N84-11357
MALECHA, R. F.
Thermal management of a lithium/iron-sulfide battery
[DE84-013438] 22 p3587 N84-32722
MALEK, A.
Ammonia boiling in long tubes. Heat transfer and charge loss in vertical and horizontal tubes
[CETIM-14-C-011] 21 p3403 N84-31588
Comparative study of heat pump regulation systems. The problem of defrosting evaporators
[CETIM-100250] 21 p3403 N84-31589
MALEK, D.
Study of biological samples obtained from victims of MGM Grand Hotel fire 04 p0514 N84-13374
MALER, L. Z.
High-resistance measuring standards of electrical resistance 18 p2826 N84-27939
MALETTA, H.
Spin correlations near the ferromagnetic to spin glass crossover
[DE84-007385] 15 p2299 N84-24799
MALGRANGE, B.
Annals of the Fourier Institute, volume 33, no. 4
[ISSN-0373-0956] 13 p2031 N84-23172
Annals of the Fourier Institute, volume 33, no. 3
[ISSN-0373-0956] 14 p2210 N84-24264
Annals of the Fourier Institute, volume 34, no. 1
[ISSN-0373-0956] 22 p3633 N84-33025
Annals of the Fourier Institute, volume 34, no. 2
[ISSN-0373-0956] 22 p3635 N84-33038
MALHERBE, A.
Vacuum-deposited optical coatings experiment (A0138-4) 15 p2278 N84-24681
MALHERBE, J. B.
Depth resolution due to instrumental factors in sputter-assisted depth profiling 06 p0816 N84-15315
MALHOTRA, R.
Study of nitration and oxidation in oxynitrogen systems
[AD-A132742] 05 p0650 N84-14271
MALI, M.
Measurement of diffusion constant by pulsed magnetic field gradient NMR in Ag26I13W4O16 RbAg4I5 and KAg4I5 11 p1743 N84-21373
MALICK, F.
Fusion and high temperature electrolysis 11 p1740 N84-21350
MALIK, J.
Propagation of a radio-frequency pulsed signal over the Earth. The JOLLY programs
[DE84-000109] 04 p0523 N84-13439
MALIK, M. R.
COSAL: A black-box compressible stability analysis code for transition prediction in three-dimensional boundary layers
[NASA-CR-165925] 18 p2836 N84-28002
A spectral collocation method for the Navier-Stokes equations
[NASA-CR-172365] 19 p3021 N84-29159
MALIKOV, M. M.
Procedure for wall temperature measurement in a metal vapor laser 13 p1968 N84-22777
MALIKOWSKI, W.
Development of contact materials made by internal oxidation
[BMFT-FB-T-83-196] 07 p0977 N84-16332
MALILA, W. A.
Investigation of radiometric properties of the LANDSAT-4 multispectral scanner
[E84-10013] 02 p0236 N84-11551
Study of spectral/radiometric characteristics of the thematic mapper for land use applications
[E84-10058] 07 p1020 N84-16615
Study on spectral/radiometric characteristics of the Thematic Mapper for land use applications
[E84-10130] 15 p2357 N84-25140
Scan-angle and detector effects in Thematic Mapper radiometry 20 p3209 N84-30386
Investigation of radiometric properties of LANDSAT-4 MSS 20 p3211 N84-30403
MALIN, M. C.
Galilean satellite geomorphology
[NASA-CR-174574] 03 p0464 N84-13057
Planetary geomorphology field studies: Washington and Alaska 13 p2084 N84-23501
Planetary geomorphology field studies: Iceland and Antarctica 13 p2086 N84-23514
MALIN, M. R.
Calculations of intermittency in self-preserving, free turbulent jets and wakes
[CFD/83/10] 15 p2332 N84-25006
Progress in the development of an intermittency model of turbulence
[CFD/83/7] 20 p3188 N84-30255
Prediction of the temperature characteristics in intermittent, free turbulent shear layers
[CFD/84/1] 20 p3188 N84-30256
MALININ, L. M.
System for torque control of unbalanced rotor during passage through resonance 13 p1973 N84-22802
MALKAN, M. A.
The physical nature of the continuum in active galaxies 08 p1243 N84-18128
MALKIN, F. J.
Emulation of a voice interactive Doppler navigation set
[AD-A140204] 16 p2446 N84-25687
MALKIN, V. B.
Efficacy of conditioning animals to hypoxia during sleep 15 p2377 N84-25261
MALKOV, G. A.
Novel technological solutions to treatment of threads in micrometric measuring tools 17 p2641 N84-26900
MALKOVA, D.
Use of radial hemolysis method in gel for detection of antibodies to Bunya virus Lednice (Turlock virus group) 17 p2741 N84-27403
MALL, G. H.
A nonintrusive nuclear monitor for measuring liquid contents in sealed vessels
[NASA-TM-85754] 08 p1161 N84-17560
MALL, S.
The Dugdale model for the compact specimen
[NASA-TM-85714] 03 p0388 N84-12529
MALLAVARPU, R.
1 megawatt, 100 GHz gyrotron study
[DE84-006527] 12 p1814 N84-21823
MALLETT, E.
ESA and its programs: Present and future 24 p3903 N84-34716
MALLETT, R. L.
The analysis of elastic-plastic deformation and stress at finite strain and their evaluation
[AD-A137931] 11 p1669 N84-20887

MALLEY, J. O.
Design considerations for shear links in eccentrically braced frames
[PB84-192186] 20 p3171 N84-30136
MALLIK, M. R.
On the stability of an infinite swept attachment line boundary layer
[NASA-CR-172300] 10 p1420 N84-19285
MALLINSON, G. D.
On the genesis of reliability models
[ARL-STRUC-REPT-393] 12 p1824 N84-21889
NERF: A computer program for the numerical evaluation of reliability functions-reliability modeling, numerical methods and program documentation
[AR-00-984] 16 p2500 N84-26048
MALLON, J. R.
Temperature compensation and shunt calibration of semiconductor pressure transducers
[AD-P002686] 11 p1658 N84-20821
MALLORY, M. B.
Nd: YAG laser improvements and modifications
[DE84-009024] 15 p2340 N84-25044
MALLORY, M. L.
Dual arc penning ion source gas flow experiments
[DE84-011637] 21 p3495 N84-32151
MALLOW, J. V.
Theory of hyperfine anomalies in muonic atoms
[DE83-015392] 03 p0438 N84-12872
MALLOY, G. D.
Ground test article for deployable space structure systems
[NASA-CR-171158] 24 p3858 N84-34457
MALMGREN, A.
Introductory studies of natural contamination and manmade pollution in Danish waters
03 p0399 N84-12608
MALMQVIST, M.
Immobilization of biomolecules on semiconductor surfaces
[FOA-C-40178-C2(B2,A3)] 06 p0831 N84-15408
MALMSTROEM, H.
Correlating aerial photographs to LANDSAT Multispectral Sensor (MSS) data to measure ground control points 15 p2358 N84-25150
MALMUTH, N. D.
Study of asymptotic theory of transonic wind tunnel wall interference
[AD-A141431] 19 p2958 N84-28751
MALOMED, B. A.
Nonlinear waves in nonequilibrium systems of the oscillatory type
[PR-840] 09 p1312 N84-18570
MALON, D. M.
Guide to graphics at ANL, revised
[DE84-013189] 20 p3274 N84-30786
MALONE, C.
A guideline for heavy ion radiation testing for Single Event Upset (SEU)
[NASA-CR-173731] 18 p2929 N84-28576
MALONE, G. A.
Development of improved LACV-30 propeller blade coatings for protection against sand and rain erosion and marine environment corrosion
[AD-A132999] 18 p2821 N84-27914
Study of high performance alloy electroforming
[NASA-CR-173828] 20 p3152 N84-30013
Study of high performance alloy electroforming
[NASA-CR-173865] 21 p3366 N84-31350
Study of high performance alloy electroforming
[NASA-CR-173979] 23 p3717 N84-33565
MALONE, J. B.
LANN (Lockheed, AFWAL, NASA-Langley and NLR) wing test program: Acquisition and application of unsteady transonic data for evaluation of three-dimensional computational methods
[NASA-CR-174466] 01 p0005 N84-10032
MALOTA, F.
Pulse signals in heterodyne and homodyne detection
[ESA-TT-809] 03 p0362 N84-12357
Pulse heterodyne equipment for measurements of range and velocity of moving targets
[DFVLR-FB-83-18] 10 p1483 N84-19696
Investigation of the simultaneous application of Combined Optical Adaptive Techniques (COAT) and angle tracking
[DFVLR-FB-83-17] 10 p1579 N84-20347
Imaging by active laser methods
[ESA-TT-804] 16 p2497 N84-26022
MALOV, S. N.
Holographic image subtraction by recording in Fourier plane and space filtration with thin light beam
20 p3289 N84-30882
MALTHOUSE, N. S.
Automated en route air traffic control algorithmic specifications. Volume 2: Airspace probe
[AD-A136850] 10 p1426 N84-19324
Automated en route air traffic control algorithmic specifications. Volume 1: Trajectory estimation
[AD-A137088] 10 p1426 N84-19328
MALTSEV, A.
Food specialists discuss cosmonaut diet
19 p2971 N84-28835
MALUF, S.
A first attempt to identify areas of high probability for the occurrence of surface skipjack schools (Katsuwonus pelamis), from an analysis of oceanographic data for the south-southeast region of Brazil
[INPE-2972-RPE/449] 23 p3803 N84-34112
MALUMUTH, E. M.
Dynamics and evolution of cD galaxies
13 p2072 N84-23425
MALVERN, L. E.
Dynamic response of concrete and concrete structures
[AD-A139294] 14 p2158 N84-23928
MALYKIN, M. I.
Digital phase meter 18 p2826 N84-27941
MALYSH, M. M.
Improving energy performance and duty time of production process CW electrical ionization CO2 lasers by using five-component lasing mixtures
21 p3481 N84-32065
MALYSHEV, I. V.
Millimetric wave frequency converter using Gunn-effect diode 22 p3570 N84-32607
MALYSHKIN, M. A.
Variation of carrier concentration caused by band structure reconstruction in tellurium and tin-doped Al(x)Ga(1-x)As solid solutions 17 p2636 N84-26861
MALYUCHKOV, O. T.
Different sensitivity of s- and d-electron energy levels to a change in lattice parameters in transition metals
[BLL-M-35116-(5828.4)] 01 p0151 N84-10996
Numerical calculations of the function of the static receptivity of electrons in metals
[BLL-M-35640-(5828.4)] 22 p3551 N84-32480
MAMANTOV, G.
Evaluation of low melting halide systems for battery applications
[AD-A131330] 02 p0242 N84-11582
Matrix-isolation photoacoustic spectroscopy
[DE84-001967] 05 p0651 N84-14277
MAMEDOV, M. B.
A study of Beta-hydroxyamines and Beta-hydroxysulphides as corrosion inhibitors for metals
[BLL-T6313/BG/WH773/84] 22 p3552 N84-32487
MAMMONE, M.
Interactive communication systems simulation model (ICSSM) extension
[AD-A135704] 09 p1302 N84-18509
MAMONTOV, A. P.
Effect of electric field on build-up and annealing of E5-centers in GaAs 18 p2825 N84-27934
Role of charged state in build-up and annealing of deep centers in GaAs irradiated by protons
18 p2825 N84-27938
MAMONTOVA, T. N.
Electron-microscopic microstructural examination of glassy Ge-Se semiconductors 20 p3287 N84-30871
MAMRAK, S.
Special or general purpose end-to-end transport mechanisms in distributed systems: One view
[DE84-008297] 15 p2395 N84-25367
MAMUTOV, E. L.
Numerical solution of a generalized model of weld pool solidification
[NRC/CNR-TT-2076] 07 p1012 N84-16564
MAN, K. F.
Evolution of a heave control system for an amphibious hovercraft
[CAR-8401] 16 p2475 N84-25864
MANAFZADEH, S.
An experimental study of steady and pulsating heat transfer in curved tubes 06 p0845 N84-15515
MANAGADZE, G. G.
Plasma particle acceleration due to emission of ground-based and onboard transmitters
05 p0636 N84-14181
Plasma processes in the region of electron beam injection from a high altitude payload
05 p0637 N84-14194
Modeling of beam-plasma discharge in the laboratory
05 p0638 N84-14200
Plasma processes caused by an electron beam injected from a high altitude rocket probe. Part 1: Neutralization processes
[IWF-8302] 17 p2728 N84-27363
Plasma processes caused by an electron beam injected from a high altitude rocket probe. Part 2: Studies of beam-plasma discharge
[IWF-8303] 17 p2728 N84-27364
MANCA, J.
Analysis of the output mode from 60 GHz, 200 kW pulsed and CW gyrotrons
[DE84-004586] 10 p1497 N84-19785
MANCHEV, B. A.
Improvement in analog error autocorrection circuit
17 p2634 N84-26855
MANCINI, F.
Anomalous surface impedance in reentrant ferromagnetic superconductors
[DE84-012634] 22 p3664 N84-33230
MANDARINI, S.
Experimental modal analysis of a partial full-scale fuselage of turboprop aircraft 18 p2794 N84-27732
MANDEL, P.
Absorptive optical bistability in a bad cavity
14 p2240 N84-24448
MANDELKERN, L.
Polymers in mechanochemical systems: Structure-property requirements
[DE84-007290] 15 p2413 N84-25490
MANDELL, F. J.
Plane strain fracture toughness of polyethylene pipe materials
[MIT-RR-R82-2] 06 p0857 N84-15586
MANDELL, M. J.
Polar code development
[AD-P002122] 16 p2524 N84-26208
MANDERS, W. F.
Characterization of organometallic polymers by chromatographic methods and nuclear magnetic resonance, part 2
[PB84-183599] 20 p3165 N84-30100
MANDEVILLE, J. C.
Study of meteoroid impact craters on various materials (A0138-1) 15 p2276 N84-24657
Attempt at dust debris collection with stacked detectors (A0138-2) 15 p2278 N84-24668
MANDL, C.
Liquefied energy gas terminal risk: A comparison and evaluation
[IIASA-RR-83-34] 15 p2360 N84-25161
MANDORINI, V.
Creep-low cycle fatigue interaction of 2 1/4 Cr 1 Mo steel at high temperature 16 p2501 N84-26051
Technological effects of pressure vessel manufacturing processes on steel properties
[EUR-7614] 17 p2622 N84-26780
MANDZHGALADZE, P. F.
Modeling anisotropic properties of media with oriented fractures 17 p2706 N84-27234
MANE, A.
Psychophysiological tools in engineering psychology
[AD-P003337] 18 p2911 N84-28461
MANFREDI, L.
Liquid hydrogen polygeneration system and process
[NASA-CASE-KSC-11304-1] 19 p3001 N84-29017
MANFROID, J.
Comparative study of period determination methods
09 p1410 N84-19216
Statistical determination of the precision obtained by a photometric reduction algorithm
09 p1410 N84-19217
An estimate of V348 Sgr effective temperature
24 p3978 N84-35201
MANG, L.
Development of innovative millimeter-wave broadband mixers
[AD-A136134] 09 p1310 N84-18562
MANGASARIAN, O. L.
Sufficiency of exact penalty minimization
[AD-A134559] 07 p1063 N84-16898
Simple computable bounds for solutions of linear complementarity problems and linear programs
[AD-A137949] 11 p1715 N84-21188
Simple bounds for solutions of monotone complementarity problems and convex programs
[AD-A141699] 19 p3087 N84-29594
MANGELSDORFF, A. D.
Workshops for management of combat stress
[AD-P003283] 18 p2907 N84-28439
MANGENEY, A.
Dissipative instabilities of magnetic neutral layers with velocity shear
[IFSI-82-13] 03 p0451 N84-12965
MANGES, D. R.
Rotatable electric cable connecting system
[NASA-CASE-GSC-12899-1] 19 p3011 N84-29085
MANGOT
Orbital propulsion module system configuration study. Volume 1: Executive summary
[S/DT/YA-25-030-VOL-1] 08 p1120 N84-17282
MANGOUBI, R.
Fault-tolerant system considerations for a redundant strapdown inertial measurement unit
[NASA-CR-172426] 23 p3692 N84-33396

MANGUM, B. W.
Standard Reference Materials (SRM) 1969: Rubidium triple-point standard: A temperature reference standard near 39.30C
[PB84-149996] 14 p2149 N84-23876

MANGUM, M. G.
Synthesis of energetic prepolymers
[AD-A135770] 09 p1288 N84-18409

MANGUM, W. C.
Reliability programs for nonelectronic designs, volume 1
[AD-A133624] 05 p0689 N84-14529

MANHARDT, P. D.
The CMC/3DPNS computer program for prediction of three-dimension, subsonic, turbulent aerodynamic juncture region flow. Volume 2: Users' manual
[NASA-CR-165997] 23 p3746 N84-33749

MANHART, S.
Laser range finding technology for space to space applications. Volume 1: Laser diode range finder functional model
[MBB-UR-608-83-O-VOL-1] 09 p1324 N84-18648
Laser diode range finder - target acquisition and tracking system functional model/demonstration model
24 p3908 N84-34754

MANHEIMER, W. M.
Stimulated Brillouin backscatter in long scale length plasmas
[DE83-013617] 01 p0150 N84-10984
External injection into a high current modified betatron accelerator
[AD-A134694] 08 p1229 N84-18030
Longitudinal resistivity and intermediate Mach number collisionless transverse magnetosonic shocks
[AD-A137122] 10 p1491 N84-19749
Flux diffusion and acceleration in a high current modified betatron
[AD-A141277] 18 p2931 N84-28584

MANI, S. A.
Assessment of the adequacy of US accelerator technology for Department of Energy Missions
[DE84-001632] 04 p0586 N84-13945
Analyses on the low voltage free electron laser
[AD-A143681] 23 p3754 N84-33796

MANIN, A.
Experimental measurements of traffic and radio disturbances in Ente Nazionale per l'Energia Elettrica's (ENEL) mobile radio networks 10 p1478 N84-19657

MANK, J. F.
Improved paint removal technique
[AD-A136671] 10 p1467 N84-19580

MANKA, C. K.
Observation of magnetic fields in laser-produced plasma using the Zeeman effect
[DE84-002742] 06 p0921 N84-15989
Modified Thomson parabola ion spectrometers for use in laser generated plasma experiments
[AD-A143298] 22 p3658 N84-33190

MANKE, J. W.
Review and verification of CARE 3 mathematical model and code
[NASA-CR-166096] 12 p1876 N84-22227

MANKIEWICZ-CUDNY, E.
Is it superconductivity at 293 k?
[AD-A132545] 04 p0612 N84-14037

MANLEY, T. O.
Geophysical data from drifting ice stations FRAM 4 and TRISTEN
[AD-A133370] 06 p0866 N84-15640
Physical oceanography report STD data from drifting ice station Fram 1
[AD-A134244] 08 p1196 N84-17797

MANN, C. W.
Rotary target V-block
[NASA-CASE-LAR-12007-3] 07 p1006 N84-16523

MANN, F. M.
Transmission of fast neutrons from the Li(d,xn) reaction through thick iron
[DE83-015975] 03 p0439 N84-12884
Comparison of measured and calculated helium production in nickel using newly evaluated neutron cross sections for (59)Ni
[DE84-000565] 04 p0611 N84-14035
Neutron cross sections for defect production by high-energy displacement cascades in copper
[DE84-002116] 07 p1083 N84-17045

MANN, H. W.
Development of V/STOL methodology based on a higher order panel method
[NASA-CR-166491] 01 p0004 N84-10024

MANN, J. Y.
Aircraft fatigue, with particular emphasis on Australian operations and research
[AD-A131036] 01 p0009 N84-10051
Improving the fatigue performance of thick aluminum alloy bolted joints by hole cold-expansion and the use of interference-fit steel bushes
[ARL-STRUC-NOTE-486] 04 p0543 N84-13578
The use of interference-fit bolts or bushes and hole cold expansion for increasing the fatigue life of thick-section aluminium alloy bolted joints
[AR-002-973] 09 p1329 N84-18676
Improving the fatigue life of the Mirage IIIO wing main spar
[ARL-STRUC-REPT-398] 24 p3853 N84-34437
The use of adhesive-bonded rivets to lessen the reductions in fatigue life caused by rivet holes
[ARL-STRUC-REPT-399] 24 p3887 N84-34617

MANN, L. J.
Annotated bibliography of global resources information systems related publications 21 p3428 N84-31746
Global resources information system
21 p3428 N84-31747

MANN, M. J.
Aerodynamic design for improved manueverability by use of three-dimensional transonic theory
[NASA-TP-2282] 09 p1250 N84-18161
Low-speed investigation of effects of wing leading- and trailing-edge flap deflections and canard incidence on a fighter configuration equipped with a forward-swept wing
[NASA-TM-85795] 17 p2600 N84-26667

MANN, W. C.
A linguistic overview of the Nigel text generation grammar
[AD-A134491] 07 p1057 N84-16849
Inquiry semantics: A functional semantics of natural language grammar
[AD-A135153] 08 p1215 N84-17929
Discourse structures for text generation
[AD-A140278] 16 p2546 N84-26342

MANN, W. P.
Cenozoic tectonics of the Caribbean: Structural and stratigraphic studies in Jamaica and Hispaniola
13 p2013 N84-23062

MANN, W. R.
Safety and protection for large-scale superconducting magnets. A FY 1982 report
[DE83-012961] 01 p0154 N84-11013
Passive and active circuits for vertical plasma stabilization
[DE84-008857] 18 p2933 N84-28599

MANNA, Z.
Verification of concurrent programs: A temporal proof system
[AD-A131501] 01 p0123 N84-10801
Verification of concurrent programs: A temporal proof system 08 p1209 N84-17884
Interactive programming
[AD-A141186] 18 p2921 N84-28525

MANNAN, S. L.
The electroplastic effect in metals
[AD-A141526] 19 p2994 N84-28971

MANNING, D. L.
Capillary zone electrophoresis: Instrumentation and use with nonaqueous solvents
[DE84-010617] 18 p2812 N84-27854

MANNING, J. R.
Application of solidification theory to rapid solidification processing
[AD-A134132] 05 p0653 N84-14291
NBS (National Bureau of Standards): Materials measurements
[NASA-CR-173162] 08 p1136 N84-17384
Application of solidification theory to rapid solidification processing
[AD-A135982] 09 p1283 N84-18380

MANNING, S. D.
Development of fatigue and crack propagation design and analysis methodology in a corrosive environment for typical mechanically-fastened joints. Volume 1: Phase I documentation
[AD-A136414] 09 p1331 N84-18691
Development of fatigue and crack propagation design and analysis methodology in a corrosive environment for typical mechanically-fastened joints. Volume 2: State-of-the-art assessment
[AD-A136415] 09 p1331 N84-18692
Durability methods development, volume 7
[AD-A142400] 20 p3128 N84-29865
USAF durability design handbook: Guidelines for the analysis and design of durable aircraft structures
[AD-A142424] 20 p3128 N84-29866

MANO, K.
Two-layer model of line-of-sight refractive multipath propagation
[AD-A130474] 01 p0064 N84-10418

MANOCHA, A. S.
Thin film technology of high-critical-temperature superconducting electronics
[AD-A136722] 10 p1589 N84-20411

MANOLIS, G. D.
Dynamic behavior of underground structures
10 p1507 N84-19860

MANOR, D.
Low aspect ratio wing/body vortex interaction at large angles of pitch and yaw 02 p0173 N84-11140

MANORY, R.
Correlations between plasma variables and the deposition process of Si films from chlorosilanes in low pressure RF plasma of argon and hydrogen
[NASA-TM-83603] 11 p1737 N84-21330

MANRO, M. E.
Specification for a Program for an Interative Aeroelastic Solution (PIAS)
[NASA-CR-172200] 04 p0479 N84-13153
A method for computing the leading-edge suction in a higher-order panel method
[NASA-CR-3730] 11 p1600 N84-20479

MANSELL, M.
Hardware-in-the-loop simulation techniques used in the development of the Sea Harrier avionic system
06 p0774 N84-15071

MANSER, G. E.
Nitrate ester polyether glycol prepolymers
20 p3142 N84-29947
Characterization of block copolymers based on poly(3,3 -bis(ethoxymethyl)oxetane) and other novel polyethers
[AD-A142606] 20 p3162 N84-30081

MANSER, R.
Development and flight test of an active flutter suppression system for the F-4F with stores. Part 2: Ground tests and subcritical flight tests
[AD-A131402] 02 p0178 N84-11163
Development and flight test of an active flutter suppression system for the F-4F with stores. Part 3. Flight demonstration of the active flutter suppression system
[AD-A131972] 03 p0337 N84-12191

MANSFELD, A. D.
Demonstration of gas bubbles in canine pulmonary artery and aorta by means of ultrasonic echography with intravenous air infusion 02 p0261 N84-11708
Ultrasonography of canine soft tissues during decompression 20 p3254 N84-30653

MANSFELD, F. B.
Application of electrochemical and mechanical impedance measurements to corrosion induced failures
[AD-A142468] 20 p3153 N84-30021

MANSFIELD, J. L.
Evaluation of multicomponent fluoride glass candidates for double crucible drawn optical fiber
[AD-A131932] 03 p0441 N84-12893

MANSHOLDT, U.
Study report on a modular photovoltaic power supply system for space application
[BMFT-FB-W-84-010] 19 p2983 N84-28904

MANSON, A. H.
Measurement of the horizontal velocity of wind perturbations in the middle atmosphere by spaced MF radar systems 17 p2688 N84-27121

MANSON, J. R.
Attractive interaction between an atom and a surface
[DE84-003204] 19 p3103 N84-29712

MANSON, S. S.
Complexities of high temperature metal fatigue: Some steps toward understanding
[NASA-TM-83507] 05 p0691 N84-14541
Tensile and compressive constitutive response of 316 stainless steel at elevated temperatures
[NASA-TM-83506] 06 p0805 N84-15249

MANSOUR, N. N.
Computation of turbulent flows over backward-facing step
[NASA-TM-85851] 03 p0371 N84-12414
Numerical simulation of the tip vortex off a low-aspect-ratio wing at transonic speed
[NASA-TM-85932] 13 p1926 N84-22535

MANSUR, L. K.
Effect of phosphorus on the swelling and precipitation behavior of austenitic stainless steels during irradiation
[DE84-000412] 04 p0499 N84-13275
Effects of pulsed dual-ion irradiation on phase transformations and microstructure in Ti-modified austenitic alloy
[DE84-001985] 06 p0807 N84-15257
Effects of pulsed and/or dual ion irradiation on microstructural evolution in a Ti and Si modified Austenitic alloy
[DE84-003411] 08 p1134 N84-17374

MANTAY, W. R.
Parametric tip effects for conformable rotor applications
[NASA-TM-85682] 01 p0094 N84-10609
Aeromechanical stability of a hingeless rotor in hover and forward flight: Analysis and wind tunnel tests
[NASA-TM-85683] 01 p0094 N84-10610

MANTEGAZZA, P.
Fast flutter clearance by parameter variation
02 p0172 N84-11135

MANTELLI, R.
Fast flutter clearance by parameter variation
02 p0172 N84-11135

MANTENIEKS, M.
Performance capabilities of the 12-centimeter Xenon ion thruster
[NASA-TM-83674] 18 p2808 N84-27825

MANTEUFFEL, T. A.
High-order sparse factorization methods for elliptic boundary value problems
[DE84-012582] 22 p3646 N84-33122

MANTHANI, S. R.
Error latency estimation using functional fault modeling
[NASA-CR-173207] 07 p1058 N84-16856

MANTHEY, M. J.
Toward a constructive physics
[DE83-016644] 04 p0594 N84-13919
Program for a constructive physics
[DE84-005425] 12 p1916 N84-22486

MANTI, P.
Doppler observation campaign in the Ivory Coast: Reconnaissance, measuring, interpretation and experience 19 p3040 N84-29289

MANTJOUKIS, G.
Optical measurements of a large-scale laboratory Beam Plasma Discharge (BPD) 05 p0638 N84-14196

MANTON, M.
Parameterization of the atmospheric boundary layer at ECMWF, appendix O 18 p2885 N84-28310

MANTSCH, P.
Electrical and magnetic properties of the energy-saver correction elements
[DE83-017327] 04 p0603 N84-13983

MANTZARAS, J.
Nitramine propellant crack tip ignition and crack propagation of a burning sample under rapid pressurization
[AD-A141246] 18 p2811 N84-27848

MANUALE, A.
A radar signal processor implemented with surface acoustic waves devices 06 p0907 N84-15889

MANUKIN, A. G.
Solution of direct problem in gravimetry on spherical Earth 17 p2700 N84-27202

MANZO, M. A.
Separator development and testing of nickel-hydrogen cells
[NASA-TM-83653] 13 p1955 N84-22712
A 37.5-kW point design comparison of the nickel-cadmium battery, bipolar nickel-hydrogen battery, and regenerative hydrogen-oxygen fuel cell energy storage subsystems for low Earth orbit
[NASA-TM-83651] 13 p2008 N84-23022
Advanced designs for IPV nickel-hydrogen cells
[NASA-TM-83643] 13 p2008 N84-23025
Teardown analysis of a ten cell bipolar nickel-hydrogen battery
[NASA-TM-83618] 13 p2008 N84-23026

MANZOTTI, G.
Application of multivariate analysis to the parameters of parameters of astrophyiscal objects
09 p1408 N84-19199
Discriminant analysis in astronomy
09 p1411 N84-19223

MAO, C. P.
A study of the burning of a solid fuel surface in partial enclosures 23 p3712 N84-33532

MAO, N.
Feasibility of using sonic techniques to estimate in-situ stresses
[DE83-016890] 01 p0097 N84-10634

MAO, N. H.
Kriging of geological and physical parameters from Yucca Flat, NTS
[DE83-018227] 04 p0550 N84-13625

MAO, S. P.
A stochastic method in hydraulic design of open channels
[PREPRINT-790] 12 p1817 N84-21845
A solution to the problem of the flow around a circular cylinder between two parallel plates with the Monte Carlo method
[PREPRINT-791] 12 p1817 N84-21846
The probabilistic analysis on the influence of roughness to depth and velocity in open channels
[PREPRINT-792] 12 p1817 N84-21847

MAPLE, E.
Geomagnetic pulsations-production/interpretation
[AD-A131448] 02 p0249 N84-11629

MAPLE, M. B.
Anomalous surface impedance in reentrant ferromagnetic superconductors
[DE84-012634] 22 p3664 N84-33230

MAPLES, A. L.
Analysis and calculation of macrosegregation in a casting ingot, exhibits C and E
[NASA-CR-171030] 14 p2127 N84-23752

MAPLES, C.
Interactive parallel processor for data analysis
[DE84-004311] 10 p1564 N84-20250

MAPPER, D.
Effects of space radiation on advanced semiconductor devices. Part 1: A review of current theories and practice in cosmic ray simulation
[G-2532-VOL-1] 08 p1153 N84-17505
Effects of space radiation on advanced semiconductor devices. Part 2: Cosmic ray simulation experiments for the study of single event upsets in CMOS technology
[G-2745-VOL-2] 08 p1153 N84-17506

MAR, J. W.
Fracture, longevity (fatigue), dynamics, and aeroelasticity of composite structures
[AD-A137047] 10 p1452 N84-19486

MARACCI, G.
Marine remote sensing activities of the Joint Research Center, Ispra, Italy 03 p0396 N84-12586
Remote monitoring of sediments and chlorophyll as traces of pollutant movements in a Mediterranean coastal area 23 p3780 N84-33969

MARACHEV, A. G.
Effects of whole-body cold exposure on erythrocyte morphology 21 p3452 N84-31906

MARADUDIN, A. A.
The interaction of electromagnetic radiation with solid materials
[AD-A130727] 01 p0066 N84-10429

MARAGOS, P. A.
Multichannel linear predictive coding of color images
[AD-A142260] 19 p3006 N84-29069
Morphological skeleton representation and coding of binary images
[AD-A142250] 19 p3079 N84-29536

MARANDET, B.
Metallurgical aspects and mechanical properties of weld metal in automatic submerged arc welding
[BLL-RISLEY-TR-4875-(9091.9F)]
09 p1324 N84-18650

MARASCHI, L.
Multifrequency observations of active galactic nuclei
24 p3972 N84-35152
UV observations on the variable quasar PG 1351+64
24 p3972 N84-35153
Preliminary results of coordinated optical UV and X-ray observations of magnetic white dwarfs in binaries
24 p3980 N84-35216

MARASCHIN, R.
Linear Fresnel lens photovoltaic concentrator program
[DE84-002971] 08 p1180 N84-17689

MARAZZI, R.
Use of a small scale wind tunnel and model shop at Aeronautica Macchi as an industrial tool
14 p2097 N84-23585

MARBACH, H. W., JR.
Application of military lubricants in commercial hydraulic/power transmission systems and components
[AD-A136937] 10 p1467 N84-19584

MARBLE, D.
Review and synthesis of problems and directions for large scale geographic information system development
[NASA-CR-166563] 10 p1525 N84-19988

MARBLE, F. E.
Mechanisms of exciting pressure oscillations in ramjet engines
[AD-A133977] 05 p0631 N84-14150

MARBURGER, S. J.
Optical and electronic methods for weld arc viewing
[DE84-009731] 19 p3032 N84-29233

MARCELL, R. F.
Comparison of land cover information from LANDSAT Multispectral Scanner (MSS) and airborne Thematic Mapper Simulator (TMS) data for hydrologic applications
20 p3216 N84-30431

MARCELL, R. M.
Final comparison of TM and MSS data for surface mine assessment in Logan County, West Virginia
20 p3216 N84-30430

MARCH, A. E.
UHF (Ultra-High Frequency) propagation measurements
[AD-A137637] 11 p1643 N84-20741

MARCHAL, M. J.
Electrothermal production of magnesium
[CSIR-TRANS-1679] 01 p0039 N84-10250

MARCHAND, M.
Influence of measuring section parameters on the results of a flight-mechanical system identification
07 p0944 N84-16125

MARCHANT, D. D.
Development of materials for open-cycle MHD
[DE83-016334] 03 p0445 N84-12926
Preparation and properties of electrically conducting ceramics based on indium oxide-rare Earth oxides-hafnium oxide 11 p1741 N84-21360
Ceramic to metal attachment system
[DE84-011095] 20 p3163 N84-30085

MARCHENKO, V. A.
Fracture resistance of hardened and tempered pipes of 16GFR steel
[BLL-M-35268-(5828.4)] 06 p0857 N84-15584

MARCHENKO, Y. N.
Assessment of trends of input actions of inertial objects
[BLL-M-35689-(5828.4)] 22 p3644 N84-33104

MARCHERTAS, A. H.
Blunt-crack band propagation in finite-element analysis for concrete structures
[DE83-010726] 01 p0097 N84-10632
Analytical response of concrete structures subjected to high temperatures
[DE83-009625] 03 p0389 N84-12536
Modeling of concrete response at high temperature
[DE84-009587] 22 p3564 N84-32570

MARCHESIN, D.
The effect of compact implicit differencing in a baroclinic primitive equations model 12 p1852 N84-22067

MARCHESINI, C.
Determination of a geoid profile across the Alps using Doppler measurements of the US Navy Navigation Satellite System (NNSS) 02 p0234 N84-11534

MARCHETTI, A.
Preliminary result of our new Nationwide Evaluation of X-ray Trends (NEXT) program for Italy
[ISS-L-84/3] 20 p3260 N84-30693

MARCHETTI, P. G.
Description of the preliminary measurements carried out on the 11 GHz experimental facility at Roma-Monte S. Pancrazio
[FUB-39-1982] 05 p0671 N84-14411
Analysis of receivers provided with equalizers for digital radio links in the presence of multipath fading
[FUB-56-1982] 10 p1483 N84-19691
Analysis of the behavior of some types of synchronizer for numerical radio links in the presence of atmospheric multipath transmission
[FUB-57-1982] 10 p1483 N84-19692

MARCHIONNA, N. R.
Alternative fuels use in a vehicular gas turbine
15 p2290 N84-24741

MARCHIS, V.
Adaptive control of thermal fluid loops for space applications 10 p1444 N84-19433

MARCIANO, W.
Future search for grand unified theory magnetic monopoles
[DE83-009451] 06 p0926 N84-16015

MARCIANO, W. J.
Electroweak interaction parameters
[DE84-012910] 21 p3496 N84-32159

MARCINIK, E. J.
A survey of body fat content of U.S. Navy male personnel
[AD-A131500] 01 p0113 N84-10736
Aerobic/calisthenic and aerobic/circuit weight training programs for Navy men: A comparative study
[AD-A140971] 18 p2900 N84-28396

MARCU, J. L.
PSC, a programmable software controller for a multiple bladder, sequentially inflatable g-suit
[AD-A138069] 12 p1868 N84-22172

MARCUCCI, P. J.
Laser induced polymerization reactions in solid propellant binders 21 p3373 N84-31403
Laser induced nitrations of some aliphatic hydrocarbon compounds 21 p3373 N84-31404

MARCUM, S. D.
Radiative collisional laser feasibility demonstration
[AD-A135793] 09 p1322 N84-18640

MARCUS, A.
Computer-assisted information graphics from the graphic design perspective
[DE84-006059] 12 p1884 N84-22281
Graphic design for computer-based information management: A case study of Seedis
[DE84-005873] 12 p1919 N84-22505
Graphic design of program text
[DE84-008162] 15 p2393 N84-25360

Reverse engineering of the multiple launch rocket system. Human factors, manpower, personnel, and training in the weapons system acquisition process
[AD-A142849] 21 p3349 N84-31247

MARCUS, H. L.
Microscopic study of the influence of impurities on interface bonding
[AD-A139300] 14 p2120 N84-23705

MARCUS, J. N.
Throughput for packet radio networks with dynamic power levels
[AD-A144415] 24 p3895 N84-34664

MARCUS, M.
Stability analysis for difference schemes, problems in applied linear algebra, and application of number theory to computing
[AD-A133654] 05 p0735 N84-14825
Stability analysis of finite difference schemes for hyperbolic systems, and problems in applied and computational linear algebra
[AD-A143537] 22 p3648 N84-33119

MARCUS, M. S.
Finite element analysis of fluid-filled elastic piping systems 06 p0859 N84-15600

MARCUS, R. A.
On the theory of electron, h-atom and proton transfers
[AD-A137511] 10 p1577 N84-20330
A simple DWBA (Franck-Condon) treatment of H-atom transfers between two heavy particles
[AD-A143667] 23 p3822 N84-34236

MARCUS, S.
Coherent laser radar remote sensing
[AD-A139448] 14 p2151 N84-23885

MARCUS, S. I.
Current algebras and the identification problem
[MC-BW-187/83] 07 p1066 N84-16923
Nonexistance of finite dimensional filters for conditional statistics of the cubic sensor problem
[MC-BW-178/83] 07 p1067 N84-16931
Optimal and suboptimal estimation of nonlinear stochastic systems
[AD-A140929] 18 p2925 N84-28546

MARCY, S. C.
Exploring the interaction of the Vroom/Yetton model and leadership style (LPC) (Least Preferred Coworker) as it predicts performance
[AD-P003247] 18 p2904 N84-28414

MARDESICH, N.
Panel fabrication utilizing GaAs solar cells 19 p3048 N84-29337
Improved techniques of parallel gap welding and monitoring 19 p3048 N84-29341

MARDIS, M.
Analytical capability of the environmental radiation ambient monitoring system
[PB84-166818] 16 p2520 N84-26177

MAREC, J.
Role of excitation frequency in dischargee created by surface waves
[LP-205] 16 p2558 N84-26411

MAREE, J. H.
The behavior of a slag base pavement structure at P39/1, Erasmia under heavy vehicle simulator loading
[RP/5/82] 11 p1639 N84-20716

MAREI, A. I.
Effect of molecular-structural characteristics of cis-1,4 polyisoprene on the melting temperature of the orientated crystaline phase
[CSIR-TRANS-1643] 01 p0152 N84-10999

MAREK, C. J.
Random vortex method for combusting flows 11 p1613 N84-20558

MAREK, S.
Strength of gypsum in complex states of stress 23 p3722 N84-33588

MARELLI, L.
European plans for handling off-line tasks of the ERS-1 23 p3784 N84-33997

MARETTO, L.
Aerodynamics and steam wetness fraction of a multistage turbine. Comparison of prediction with experimental data 06 p0840 N84-15475

MARGARYAN, A. A.
Using gas-turbine power stations with aircraft engines for power-and-heat generation
[AD-A142084] 21 p3434 N84-31786

MARGERUM, J. D.
Effects of cyclohexyl groups and ortho-substituents on the viscosity of ester liquid crystal components
[AD-A143028] 21 p3504 N84-32205
Liquid crystal materials for matrix displays
[AD-A143039] 21 p3504 N84-32206
Improved materials for DC dynamic scattering at elevated temperatures
[AD-A143076] 21 p3504 N84-32207

MARGETAN, F. J.
Formulae for configuration averages of products of 1-body and 2-body operators in many-fermion spaces
[DE84-002634] 08 p1221 N84-17971

MARGLE, S. M.
Estimation of small area populatons using remote sensing and other approaches
[DE84-003404] 08 p1178 N84-17678

MARGOLIN, H.
Fatigue crack propagation in Ti-Mn alloys: The role of the Bauschinger effect
[AD-A136036] 09 p1283 N84-18383
Deformation of bimetallic bicrystals of Alpha-Ti/Beta-Ti-13Mn
[AD-A140263] 16 p2469 N84-25822

MARGOLIN, L. G.
Momentum-control volumes for finite-difference codes
[DE83-007566] 02 p0282 N84-11849
Criterion for quasibrittle crack growth
[DE84-010052] 20 p3203 N84-30349

MARGOLIS, J. S.
Correlation spectrometer having high resolution and multiplexing capability
[NASA-CASE-NPO-15558-1] 24 p3901 N84-34705

MARGON, B.
A study of the discrepant QSO X-ray luminosity function from the HEAO-2 data archive
[NASA-CR-173311] 09 p1413 N84-19240

MARGRAVE, G.
Tools for the creation of IMS database designs from Entity-Relationship diagrams
[DE84-000592] 04 p0616 N84-14066

MARGULIS, K. M.
High-resistance measuring standards of electrical resistance 18 p2826 N84-27939

MARIAN, E. J.
NASA flight electronics environmental stress screening survey
[NASA-CR-173472] 12 p1841 N84-22002

MARIANI, F.
Interplanetary Alfvenic fluctuations: A statistical study of the directional variations of the magnetic field
[IFSI-82-14] 03 p0463 N84-13050
Interplanetary Alfvenic fluctuations: A statistical study of the directional variations of the magnetic field 03 p0467 N84-13076
Interplanetary flow systems associated with cosmic ray modulation in 1977 - 1980
[NASA-TM-85120] 08 p1246 N84-18149

MARIANI, G.
The use of matrix transducers in medium thickness welding inspection
[CISE-2075] 06 p0855 N84-15572

MARIANI, M. P.
Distributed database performance modeling
[AD-P002157] 14 p2139 N84-23823

MARIKHIN, V. A.
Electron-microscopic microstructural examination of glassy Ge-Se semiconductors 20 p3287 N84-30871

MARILLI, E.
Emission lines in the UV spectrum of alpha Tau 24 p3974 N84-35168

MARINENKO, G.
Simulated precipitation reference materials, 4
[PB83-139378] 06 p0883 N84-15742

MARINESCU, P.
Supersonic flows around a circular cone with or without blowing on the surface
[AD-A143258] 22 p3532 N84-32362

MARINOS, C.
Improved heat exchanger for electrothermal devices
[NASA-CASE-LEW-14037-1] 22 p3542 N84-32425

MARIOTTI, J., JR.
Preventive maintenance on space systems
[AD-A134955] 08 p1107 N84-17198

MARIS, J. L.
Crew survivable helicopter undercarriage
[AD-A137770] 11 p1606 N84-20517

MARJON, P. L.
Evaluation of pumps for wind-driven irrigation
[DE83-013438] 01 p0090 N84-10587

MARK, H. B.
Polymerization of 3-methyl-2,5-Dibromothiophene utilizing n-butyl lithium and Copper(II) chloride
[AD-A136955] 10 p1488 N84-19585

MARK, J. W.
A 650 mm long liquid hydrogen target for use in a high intensity electron beam
[DE84-002552] 06 p0916 N84-15955
Comparisons of hydrodynamic beam models with kinetic treatments
[DE84-003242] 08 p1233 N84-18057
A 650 mm long liquid hydrogen target for use in a high intensity electron beam
[DE84-007086] 12 p1902 N84-22389

MARK, J. W. K.
Spot heating calculation for a heavy ion driven high temperature experiment
[DE84-013879] 22 p3653 N84-33159

MARK, L.
Study of aerodynamic technology for single-cruise-engine V/STOL fighter/attack aircraft
[NASA-CR-166270] 19 p2956 N84-28738

MARK, L. J.
Automated Instructional Media Selection (AIMS)
[AD-A135749] 10 p1552 N84-20168

MARK, M. B.
Optical propagation and communication 22 p3683 N84-33355

MARKAKIS, J.
Large-area mercuric iodide photodectors
[DE83-013035] 03 p0441 N84-12898

MARKATOS, N. C.
Proc. of a Course of Lectures and Computer Workshops on Computer Simulation of Multi-Phase Flows
[CFD/83/4] 18 p2838 N84-28012

MARKEVICH, A.
Minimal unitary (covariant) scattering theory
[DE83-014896] 03 p0435 N84-12849

MARKHAM, B. L.
Spectral characterization of the LANDSAT thematic mapper sensors
[E84-10065] 06 p0865 N84-15634
Spectral characterization of the LANDSAT Thematic Mapper sensors 20 p3207 N84-30372
Spectral characterization of the LANDSAT-4 MSS sensors 20 p3211 N84-30402
Impact of Thematic Mapper sensor characteristics on classification accuracy 20 p3213 N84-30410
Quick look analysis of TM data of the Washington, District of Columbia area 20 p3214 N84-30418
Preliminary comparisons of the information content and utility of TM versus MSS data 20 p3215 N84-30423
Characterization of the LANDSAT sensors' spatial responses
[E84-10171] 21 p3426 N84-31734
Spectral characterization of the LANDSAT Thematic Mapper sensors
[E84-10184] 21 p3429 N84-31755
Introduction to Thematic Mapper investigations. Section 1: Radiometry. Section 2: Geometry
[E84-10185] 21 p3429 N84-31756

MARKHAM, D. G.
Ocean mixing and circulation response in the marginal ice zone
[AD-A132174] 04 p0569 N84-13751

MARKHAM, J. W.
Orthotropic hole element 06 p0859 N84-15595

MARKIEWICZ, J. J., JR.
Geoscience-related research needs for geothermal energy technology
[DE84-001837] 05 p0704 N84-14622

MARKIN, J. T.
Smarter radiation monitors for safeguards and security
[DE83-015259] 02 p0224 N84-11468

MARKIN, K.
Evaluation of strategies to enhance departure sequencing
[AD-A140710] 17 p2605 N84-26689

MARKLIN, G.
Transport, stability and relaxation of a Spheromak
[DE84-007285] 15 p2412 N84-25479
Equilibrium and stability of the Los Alamos spheromak
[DE84-010064] 20 p3303 N84-30975

MARKLIN, G. J.
MHD stability of the spheromak 17 p2766 N84-27563

MARKLUND, G.
Auroral arc classification scheme based on the observed arc-associated electric field pattern
[TRITA-EPP-83-01] 02 p0251 N84-11641

MARKMAN, V. G.
Link between characteristics of EEG rhythms in biofeedback control and indexes for operator activity 21 p3455 N84-31927

MARKON, C.
Land cover and terrain mapping for the development of digital data bases for wildlife habitat assessment in the Yukon Flats National Wildlife Refuge, Alaska 14 p2166 N84-23971

MARKOW, S. R.
Wang OIS glossary package for reformatting documents telecommunicated to the OIS system
[DE84-005113] 12 p1920 N84-22507

MARKOWICH, P. A.
A singular perturbation analysis of the fundamental semiconductor device equations
[AD-A136322] 09 p1373 N84-18964
A nonlinear eigenvalue problem modelling the avalanche effect in semiconductor diodes
[AD-A136368] 09 p1394 N84-19106

Computation of current-voltage-characteristics in a semiconductor device using arc-length continuation
[AD-A137919] 11 p1647 N84-20770
A finite difference study of the stretching and break-up of filaments of polymer solutions
[AD-A139258] 14 p2130 N84-23767

MARKS, G. T.
Transient photochemistry of neutral red
[AD-A131564] 18 p2810 N84-27839

MARKS, P. J.
Installation restoration general environmental technology development. Task 3: Guidelines for in-place closure of dry lagoons. Volume 2: Evaluation of in-place closure technologies
[AD-A140655] 17 p2724 N84-27338

MARKS, W.
Multicriterion optimization of construction
[ISSN-0208-5658] 23 p3759 N84-33822

MARKSON, R.
Meteorological research and support for the MIZEX (Marginal Ice Zone Experiment) program
[AD-A142409] 20 p3245 N84-30596

MARKSON, R. J.
Search for solar signals in GOES imagery and cloud climatology analysis 24 p3931 N84-34881

MARKWITZ, W.
Typical remote sensing data products
08 p1175 N84-17656

MARKWORTH, A. J.
Hot isostatic pressing of ceramic powder compacts
[AD-A131514] 01 p0050 N84-10324

MARLAND, G.
Relationship between global fossil-fuel consumption and the concentration of carbon dioxide in the atmosphere, part 1
[PB84-123413] 10 p1532 N84-20036
Relationship between global fossil-fuel consumption and the concentration of carbon dioxide in the atmosphere, part 2
[PB84-138841] 11 p1683 N84-20985
Carbon dioxide emissions from fossil fuels: A procedure for estimation and results for 1950 - 1981
[DOE/NBB-0036] 19 p3052 N84-29365
Changing pattern of carbon dioxide emissions
[DE84-010086] 19 p3052 N84-29371

MARLATT, W. P.
Overview of Roof Pond Systems
16 p2516 N84-26150

MARLIN, H.
ISEE-3 microwave filter requirements
10 p1475 N84-19632

MARLIN, J.
Marine Corps ground simulator training needs in the 1985-1995 time frame
[AD-P003465] 21 p3511 N84-32242

MARLOW, S. W.
Acquisition cost analysis for the near term military application of laser versus millimeter wave for satellite crosslink communications
[AD-A141061] 19 p3004 N84-29037

MARLOWE, D. S.
Spartan Release Engagement Mechanism (REM) stress and fracture analysis
[NASA-CR-173779] 19 p3034 N84-29244

MARMAR, E. S.
High resolution X-ray spectra of H- and He-like argon from the Alcator C Tokamak 11 p1735 N84-21321
Magnetic fusion energy plasma interactive and high heat flux components. Volume 1: Technical assessment of the critical issues and problem areas in the plasma materials interaction field
[DE84-011527] 20 p3302 N84-30969

MARMO, G.
Relativistic particle dynamics: Lagrangian proof of the no-interaction theorem
[DE84-009147] 19 p3102 N84-29707

MARMOLEJO, E.
Current velocity profiles in the Straits of Florida from the Pegagus current profiler: Subtropical Atlantic Climate Study 1982
[PB84-154335] 14 p2183 N84-24084

MARMOLIN, H.
Psychological research in USA within the areas of anti-tank helicopter operations and man-computer interactions: Study trip to USA, May-June 1983
[FOA-C-53012-H2] 10 p1552 N84-20172

MARNER, W. J.
A survey of gas-side fouling in industrial heat-transfer equipment
[NASA-CR-173469] 12 p1841 N84-22003
A survey of gas-side fouling measuring devices
[NASA-CR-173734] 18 p2836 N84-28003

MAROCHNIK, L. S.
Belt of life in the galaxy
[PR-76] 08 p1243 N84-18127

MAROLO, S. A.
Conference on Aerospace Transparent Materials and Enclosures
[AD-A140701] 17 p2589 N84-26596

MARONDE, R. G.
Engineering evaluations and studies. Volume 1: Exhibit A
[NASA-CR-171724] 06 p0794 N84-15174
Engineering evaluations and studies. Volume 2: Exhibit B, part 1
[NASA-CR-171725] 06 p0794 N84-15175
Engineering evaluations and studies. Volume 2: Exhibit B, part 2
[NASA-CR-171726] 06 p0794 N84-15176
Engineering evaluations and studies. Volume 3: Exhibit C
[NASA-CR-171727] 06 p0794 N84-15177

MAROSKE, R.
Development of optomechanical deflectors for light beams and electronical-optical deflectors with subsequent generation of light to represent characters digitally or partially
[BMFT-FB-T-84-140] 23 p3826 N84-34264

MAROV, M. Y.
Proposals for VIRA (Venus International Reference Atmosphere): Dynamics and structure below 100 km
[REPT-831] 11 p1758 N84-21475

MARQUART, E. J.
Numeric and fluid dynamic representation of tornadic double vortex thunderstorms
[NASA-CR-171023] 15 p2370 N84-25217

MARQUES, A. D., FILHO
Daily variations of temperature and humidity within and above Amazonian forest
[INPE-3196-PRE/560] 21 p3447 N84-31869

MARQUES, E. C.
C1 K-edge X-ray absorption studies of concentrated ferric chloride solutions
[AD-A142190] 19 p2989 N84-28940
Multiple scattering effects in EXAFS (Extended X-ray Absorption Fine Structure): Comparison between theory and experiment for Pt metal
[AD-A142199] 19 p2989 N84-28941

MARQUES, J. P.
Thermal evaluation of selected ablative materials in transient low heat flux environments
[AD-A139441] 14 p2130 N84-23768

MARQUIS, J. A.
Design and evaluation of small water turbines
[DE84-000404] 04 p0544 N84-13586

MARR, P.
NC-controlled machine with a cable
[MBB-UT-21-83-O] 16 p2564 N84-26450

MARR, W. W.
A computerized system for establishing electric-vehicle battery requirements
[DE84-011726] 21 p3395 N84-31545

MARRETT, R.
Electrographite electrodes from coal tar pitch super needle coke for electric steel manufacturing
[BMFT-FB-T-83-067] 02 p0197 N84-11281

MARRIAN, C. R. K.
Fast turn-on osmium coated cathode
[AD-D011036] 19 p3018 N84-29134

MARRIE, M. D.
Automated administrative data bases
11 p1749 N84-21411

MARRIOTT, R. S.
Outgassing data for selecting spacecraft materials
[NASA-RP-1124] 17 p2617 N84-26751

MARRO, L.
The front concept and profile reduction numberings
[SNIAS-832-440-102] 15 p2397 N84-25361

MARROQUIN, J.
Results of the AFRSI detailed-environment test of the 0.035-scale SSV pressure-loads model 84-0 in the Ames 11x11 ft. TWT and the Lewis 8x6 ft. and 10x10 ft. SWT (OA-310A, B, C), volume 2
[NASA-CR-167686] 21 p3351 N84-31260
Results of the AFRSI detailed-environment test of the 0.035-scale SSV pressure-loads model 84-0 in the Ames 11x11 ft. TWT and the Lewis 8x6 ft. and 10x10 ft. SWT (OA-310A, B, C), volume 1
[NASA-CR-167685] 21 p3352 N84-31261

MARROW, R.
Development of a microprocessor based audiometer for threshold shift studies
[AD-A142124] 19 p3065 N84-29448

MARRUCCI, G.
Continuum theory for fiber suspensions
[DE84-012258] 21 p3402 N84-31584

MARSAL, F.
Preparation of standard electrical testability provisions for space equipment. Volume 1: Executive summary
[DM.51/CV/JP/327.83-VOL-1]
08 p1153 N84-17507
Preparation of standard electrical provisions for space equipments
[DM.51/CV/JP/327.83-VOL-2]
08 p1153 N84-17508

MARSAN, M.
Acoustic diffraction by an impedance-covered edge
[AD-A133266] 06 p0909 N84-15904

MARSCH, E.
Petrologic and geophysical study of the source of long wavelength crustal magnetic anomalies
[NASA-CR-175168] 11 p1677 N84-20946

MARSCH, D.
Intelligent instruments for process measurement techniques (monitoring of sensors)
[BMFT-FB-T-84-078] 21 p3407 N84-31611

MARSCH, E.
Radial evolution of ion distribution functions
03 p0470 N84-13094

MARSCH, G.
Wind energy converter GROWIAN 2
[BMFT-FB-T-84-063] 19 p3051 N84-29364

MARSDEN, J. E.
Generalized Poisson brackets and nonlinear Liapunov stability: Application to reduced MHD
[DE84-009973] 20 p3302 N84-30972

MARSDEN, R. G.
The International Solar Polar Mission: Its scientific investigations
[ESA-SP-1050] 09 p1260 N84-18227
The ISPM mission: Science objectives and mission overview 09 p1260 N84-18229

MARSDEN, R. P.
Optical fibre links for digital YUV signals
[BBC-RD-1983/14] 05 p0665 N84-14372

MARSH, A. H.
Study of noise-certification standards for aircraft engines. Volume 1: Noise-control technology for turbofan engines
[AD-A133386] 06 p0790 N84-15157
Study of noise-certification standards for aircraft engines. Volume 2: Procedures for measuring far field sound pressure levels around an outdoor jet-engine test stand
[AD-A133408] 06 p0791 N84-15158
Study of noise-certification standards for aircraft engines. Volume 3: Selection and evaluation of engine-noise-certification concept
[AD-A137805] 11 p1614 N84-20583

MARSH, B. D.
On gravity from SST, geoid from SEASAT, and plate age and fracture zones in the Pacific
[E84-10025] 02 p0238 N84-11559
The delineation and interpretation of the Earth's gravity field
[NASA-CR-173310] 08 p1185 N84-17722
Wind erosion and dune formation on high frozen bluffs
13 p2082 N84-23493
Petrologic and geophysical sources of long-wavelength crustal magnetic anomalies
[NASA-CR-175245] 18 p2878 N84-28276

MARSH, C.
Publications of the JPL Solar Thermal Power Systems Project, 1976 to 1983
[NASA-CR-173464] 12 p1842 N84-22011

MARSH, D. E.
Comments on measures of performance of selected signal detectors
[AD-A137102] 10 p1482 N84-19684

MARSH, J. G.
On gravity from SST, geoid from SEASAT, and plate age and fracture zones in the Pacific
[E84-10025] 02 p0238 N84-11559
Global mean sea surface based upon SEASAT altimeter data 20 p3222 N84-30470

MARSH, N.
Computers for the smaller contractors
05 p0718 N84-14703

MARSH, R. A.
Deactivation of thionyl chloride cells
[AD-D011113] 22 p3615 N84-32908

MARSH, S. J.
The effect of field index fluctuations on the dynamics of a high current electron ring in a modified betatron accelerator
[AD-A133089] 05 p0745 N84-14891
Dynamics of a high current electron ring in a conventional betatron accelerator
[AD-A133291] 06 p0914 N84-15945

MARSH, S. P.
Mach disc formation in cylindrical recovery systems
[DE83-015912] 02 p0220 N84-11442

MARSH, W. M.
Wind erosion and dune formation on high frozen bluffs
13 p2082 N84-23493

MARSHAK, R.
Human engineering guidelines for management information systems. Change 1
[AD-A137806] 11 p1703 N84-21104
MARSHAK, W.
Interactions of motion perception with pattern perception
[AD-P003363] 18 p2913 N84-28476
MARSHALKIN, A. N.
Generation of reactive stresses in TiNi alloy
24 p3875 N84-34556
MARSHALL, A. R.
Preliminary airworthiness evaluation of the UH-60A configured with the External Stores Support System (ESSS)
[AD-A132964] 05 p0630 N84-14139
MARSHALL, B. A.
Post-test data report for the space shuttle full-scale AFRSI sequence of environments test (OS-305-1 to -5) in the NASA/Ames Research Center 11x11-foot wind tunnel
[NASA-CR-167684] 13 p1938 N84-22603
Results of the AFRSI detailed-environment test of the 0.035-scale SSV pressure-loads model 84-0 in the Ames 11x11 ft. TWT and the Lewis 8x6 ft. and 10x10 ft. SWT (OA-310A, B, C), volume 2
[NASA-CR-167686] 21 p3351 N84-31260
Results of the AFRSI detailed-environment test of the 0.035-scale SSV pressure-loads model 84-0 in the Ames 11x11 ft. TWT and the Lewis 8x6 ft. and 10x10 ft. SWT (OA-310A, B, C), volume 1
[NASA-CR-167685] 21 p3352 N84-31261
MARSHALL, B. V.
Permafrost and the geothermal regime
14 p2165 N84-23964
MARSHALL, B. W.
The transient response of circular foil heat-flux gages
[DE83-017785] 04 p0538 N84-13541
MARSHALL, C.
Bulk availability
[AD-A129663] 01 p0129 N84-10845
MARSHALL, D. A.
Investigation of mechanisms underlying odor recognition
[AD-A140969] 18 p2914 N84-28482
MARSHALL, D. B.
Micro and macro mechanics of fracture in ceramics
[AD-A137290] 10 p1465 N84-19572
MARSHALL, D. D.
Bearing tester data compilation, analysis and reporting and bearing math modeling, volume 1
[NASA-CR-171039] 15 p2340 N84-25046
MARSHALL, F. E.
An X-ray survey of variable radio bright quasars
[NASA-TM-86094] 14 p2250 N84-24512
The broad-band X-ray spectrum of a QSO sample
[NASA-TM-85071] 22 p3681 N84-33333
Imaging X-ray spectrometer
[NASA-CASE-GSC-12682-1] 23 p3749 N84-33785
MARSHALL, H. L.
Optical and X-ray selected samples of quasars: Evolution of the luminosity distributions
06 p0937 N84-16090
MARSHALL, J.
Abrasion by aeolian particles: Earth and Mars
[NASA-CR-3788] 11 p1628 N84-20654
MARSHALL, J. B.
A design automation database for computer aided design of computer systems 21 p3517 N84-32278
MARSHALL, J. R.
Abrasion by aeolian particles: Earth and Mars
[NASA-CR-3788] 11 p1628 N84-20654
Wind abrasion on Venus: A means for experimental investigations 13 p2076 N84-23455
MARSHALL, L. S.
Cell-substrate bonding system design and development
[DE84-000963] 04 p0558 N84-13678
MARSHALL, N.
Crystalline photoconductive films for electrophotographic recording
[BMFT-FB-T-84-099] 21 p3408 N84-31614
MARSHALL, N. A.
Electrical safety for high voltage arrays
22 p3584 N84-32697
MARSHALL, N. H.
FORTRAN 8x: The scientific programming language of the future
[DE84-012526] 20 p3274 N84-30787
MARSHALL, P. M.
Microwave bandstop filters as dielectric resonators
[INPE-3055-PRE/475] 23 p3740 N84-33706
A microwave oscillator controlled by pressure and stabilized by a 1250 MHz cavity resonator
[INPE-3173-PRE/543] 23 p3741 N84-33712
MARSHALL, R. A.
Energy stores and switches for rail-launcher systems
[NASA-CR-173249] 07 p0996 N84-16458
MARSHALL, R. P.
Initial operation of the compressed air experiment at Pittsfield, Illinois
[DE83-016930] 03 p0404 N84-12643
MARSHALL, S. E.
Experimental determination of the particle motions associated with the low order acoustic modes in enclosures
[NASA-CR-174542] 02 p0267 N84-11882
The prediction of acoustical particle motion using an efficient polynomial curve fit procedure
[NASA-CR-173915] 22 p3651 N84-33145
A study of methods to predict and measure the transmission of sound through the walls of light aircraft. A survey of techniques for visualization of noise fields
[NASA-CR-173917] 22 p3652 N84-33146
MARSHALL, S. V.
Effect of radiofrequency radiation on DNA duplex stability and replication
[AD-A133526] 07 p1042 N84-16759
Effects of radiofrequency radiation on differentiation of erythroleukemic cells
[AD-A143038] 21 p3453 N84-31914
MARSHALL, T. C.
Status of research in progress at the Inhalation Toxicology Research Institute
[DE83-012610] 06 p0875 N84-15694
Thomson backscattering from an intense relativistic electron beam as a diagnostic for a free electron laser
[AD-A143027] 21 p3409 N84-31623
MARSHALL, W. J.
Guidelines for running the thermal computational model of the eye
[AD-A142550] 20 p3260 N84-30688
MARSHALL, W. L.
Sodium-sulfate solubilities in high-temperature (250 to 3740C) salt and acid solutions
[DE83-015813] 02 p0191 N84-11241
MARSHALL, W. R.
Three stage rocket vehicle with parallel staging
[NASA-CASE-MFS-25878-1] 18 p2803 N84-27787
MARSIGLIA, G.
Statistical data on anomalous propagation in the Tyrrhenian Sea using an X-band link
06 p0871 N84-15668
MARSTAD, N. C.
IUE observations of BY Draconis
24 p3975 N84-35176
Rotational modulation of spots and plages on RSCVn stars 24 p3978 N84-35196
Models for the active and quiescent regions on the RS CVN-type system 2 Pegasi (HD 224085)
24 p3978 N84-35197
MARSTON, P. L.
Focused acoustical and optical backscattering from spheres and properties of optoacoustic sources
[AD-A133744] 05 p0747 N84-14904
MART, P. L.
Influence of container interactions on the vaporization thermodynamics of nickel
[MRL-R-884] 17 p2622 N84-26784
MARTELLO, N. V.
Biomedical Research Division significant accomplishments for FY 1983
[NASA-TM-85929] 10 p1545 N84-20128
MARTEMYANOVA, Z. S.
The electrodeposition of titanium coatings
[BLL-OA-TRANS-3057-(6196.3)]
04 p0497 N84-13260
MARTENEY, P. J.
Investigation of the kinetics of catalyzed combustion of fuel
[AD-A142153] 19 p2989 N84-28939
MARTENS, G. B.
Defense technical information center cataloging guidelines
[AD-A138500] 12 p1919 N84-22503
MARTI, K.
Cosmic ray exposure ages of iron meteorites, complex irradiation and the constancy of cosmic ray flux in the past 11 p1755 N84-21455
MARTIKAINEN, O.
Convolution of generalized vector measures
04 p0577 N84-13803
MARTIN-KAYE, P. H. A.
SIR-A aids regional geology: Comparisons of SIR-A imagery with SLAR and LANDSAT over Guyana, Venezuela, Nicarargua and Mali
07 p0988 N84-16401
MARTIN-PEREDA, J. A.
Self-beating instabilities in bistable devices
14 p2236 N84-24415
Empirical and analytical study of instabilities in hybrid optical bistable systems 14 p2236 N84-24416
MARTIN, A.
Terrain travel simulation: Data and application
[AD-P003359] 18 p2912 N84-28472
MARTIN, A. J.
Coated silica shells: An advanced hydrogen storage system
[DE84-008986] 20 p3163 N84-30088
MARTIN, B. A.
Training decision-makers to be creative: A management process model
[AD-P003347] 18 p2912 N84-28466
MARTIN, B. J.
On the conversion of LINPACK to Ada
[AD-P002941] 14 p2197 N84-24181
Effects of emotional and perceptual-motor stress on a voice recognition system's accuracy: An applied investigation
[AD-A142554] 20 p3175 N84-30160
MARTIN, C.
Integrated Computer-Aided Manufacturing (ICAM) architecture. Part 3, volume 2: Procedures
[AD-A137422] 10 p1563 N84-20240
Symmetric systems with semisimple structure algebra: The quaternionic case
[NASA-CR-173421] 13 p2034 N84-23193
Integrated Computer-Aided Manufacturing (ICAM) architecture. Part 3, volume 4: Composite information model of design product (DES 1)
[AD-A142447] 20 p3273 N84-30774
Integrated Computer-Aided Manufacturing (ICAM) architecture. Part 3, Volume 6: Composite information model of 'Manufacture product' (MFG1)
[AD-A143072] 21 p3466 N84-31973
MARTIN, C. A.
Power effects on the longitudinal characteristics on single-engine propeller-driven aircraft
[ARL-AERO-REPT-157] 04 p0483 N84-13174
MARTIN, C. H.
Engineering calculations for communications satellite systems planning
[NASA-CR-173532] 14 p2113 N84-23662
MARTIN, C. R.
Luminescence probe studies of nafion polyelectrolytes
[AD-A133519] 06 p0801 N84-15224
Chemical properties and film casting of radiation grafted ion-containing polymers
[AD-A138551] 13 p1963 N84-22754
Luminescence titrations of polyelectrolytes
[AD-A140823] 17 p2619 N84-26763
Ion exchange selectivity of Nafion films on electrode surfaces
[AD-A140824] 17 p2620 N84-26764
High performance liquid chromatographic studies of the ion exchange selectivity of Nafion
[AD-A144646] 24 p3881 N84-34585
MARTIN, D. G.
The application of HTR coated fuel particle performance models to various problems in materials' science
[AERE-R-11029] 18 p2931 N84-28589
MARTIN, D. L.
Mathematical simulation of the cardiopulmonary system
[AD-A135460] 08 p1200 N84-17822
MARTIN, E.
Low-Altitude Database Development Evaluation and Research (LADDER)
[AD-P003468] 21 p3511 N84-32243
MARTIN, E. A.
Motion simulation with a G-seat system: Sensory and performance mechanisms
[AD-P003267] 18 p2907 N84-28432
MARTIN, E. C.
Interfacial interaction and adhesion in composite materials 20 p3144 N84-29961
MARTIN, E. L.
Low-level flight simulation: Vertical cues
[AD-A133612] 07 p1050 N84-16802
Surface-attack mission simulation: Preliminary scenario evaluation
[AD-A135868] 09 p1259 N84-18219
MARTIN, E. W.
The Department of Defense statement on the science and technology program by Dr. Edith W. Martin, Deputy Under Secretary of Defense for Research and Advanced Technology before the Subcommittee on Research and Development of the Committee on Armed Services of the United States House of Representatives, 98th Congress, second session
[AD-A139402] 14 p2246 N84-24488
MARTIN, G. C.
Polymeric microelectronics
[AD-A130523] 01 p0049 N84-10317

MARTIN, G. E.
Transmission lines with very lossy conductors and seawater return
[AD-A130739] 01 p0065 N84-10427
MARTIN, G. L.
Geometries for roughness shapes in laminar flow
[NASA-CASE-LAR-13255-1] 03 p0320 N84-12092
Application of selected advanced technologies to high performance, single-engine, business airplanes
[NASA-CR-172361] 18 p2792 N84-27719
MARTIN, H.
The blue-green spectrum of gaseous Pb2 wave numbers and constants of the FOu+ - XOg+ system
[USIP-84-06] 20 p3151 N84-30009
MARTIN, H. L.
Robotics-related technology in the nuclear industry
[DE83-017131] 06 p0893 N84-15799
Advanced teleoperation in nuclear applications: Consolidated fuel reprocessing program
[DE84-011631] 20 p3197 N84-30303
Automatic camera tracking for remote manipulators
[DE84-011455] 21 p3407 N84-31608
Advanced remotely maintainable force-reflecting servomanipulator concept
[DE84-011634] 21 p3414 N84-31646
MARTIN, I. M.
Observations of galactic center for annihilation line at 0.511 MeV
[INPE-2907-PRE/421] 02 p0305 N84-12000
Telescope calibration for gamma spectroscopy with a new Ge(Li) diode configuration
[INPE-2885-PRE/407] 04 p0619 N84-14083
PULSAR: A balloon-borne experiment to detect variable low energy gamma-ray
[INPE-2950-PRE/433] 07 p1093 N84-17108
MARTIN, J. A.
Capture-ejector satellites
[NASA-TM-85686] 06 p0795 N84-15179
Propulsion options for orbit-on-demand
20 p3136 N84-29915
MARTIN, J. C.
Approach to single-molecule detection by laser-induced fluorescence
[DE84-001338] 04 p0542 N84-13572
Prospects for single-molecule detection in liquids by laser-induced fluorescence
[DE84-001702] 09 p1324 N84-18647
MARTIN, J. E.
Study of defects produced by the growth, post treatment and fabrication of quartz
[AD-A139834] 15 p2413 N84-25485
MARTIN, J. J.
Radiation-induced transient acoustic loss in quartz crystals
[DE83-012626] 03 p0453 N84-12980
Study of defects produced by the growth, post treatment and fabrication of quartz
[AD-A138327] 12 p1914 N84-22471
MARTIN, J. L.
CRAY-1 instruction analysis: A comparison of two methods
[DE83-012778] 05 p0730 N84-14794
MARTIN, J. M.
Control systems
[AD-A140901] 17 p2771 N84-27592
MARTIN, K. R., JR.
An automated computer communication network protocol verification system
[AD-A138160] 12 p1881 N84-22260
MARTIN, L. C.
Modeling and testing for second breakdown phenomena
[DE84-002470] 07 p0994 N84-16444
MARTIN, L. J.
Post-mission Viking data anaysis
[NASA-CR-173451] 12 p1776 N84-21587
MARTIN, M.
The radiative cooling resource
16 p2513 N84-26131
MARTIN, M. D.
The impact of factory automation and robotics on the contracting and acquisition processes
[AD-P002830] 13 p2062 N84-23375
MARTIN, P.
Fixity of members embedded in concrete
[AD-A138862] 13 p1974 N84-22810
MARTIN, R.
Variable pulse width piezoelectric ultrasonic transducer driver
[AERE-R-11071] 18 p2845 N84-28064
MARTIN, R. F., JR.
Theoretical studies of the pulsar magnetosphere
21 p3437 N84-31809
MARTIN, R. J.
Guidance on software maintenance
[PB84-128951] 09 p1371 N84-18952
MARTIN, R. L.
Spiral Kicker for the beam abort system
[DE84-007267] 15 p2406 N84-25442
MARTIN, R. W.
Data analysis of the LLNL hydrogen igniter experiments
[DE83-010260] 01 p0037 N84-10236
MARTIN, S. F.
Dynamic signatures of quiet sun magnetic fields
[NASA-CR-173361] 10 p1597 N84-20464
Analysis of flares observed during the solar maximum year
[AD-A137922] 11 p1759 N84-21481
MARTIN, T. J.
Surface heat flux derived from sodar amplitude and frequency data: A comparison
[DE83-017930] 04 p0584 N84-13717
A comparison of frequency determination using real sodar data
[DE83-017942] 04 p0584 N84-13718
Remote sensing of winds and turbulence above complex terrain during ASCOT-1980
[DE84-004231] 11 p1688 N84-21009
MARTIN, V. J.
Report of accomplishments under the airport improvement program
[AD-A142444] 20 p3132 N84-29889
MARTIN, V. M.
Microwave interaction with thin multiple conductive coatings
[AD-A131091] 01 p0067 N84-10435
MARTIN, W. L.
Optical and human performance evaluation of HUD (Head-Up Display) systems design
[AD-A140601] 17 p2588 N84-26587
MARTIN, W. N.
Detection of cracks on highway pavements
[PB83-238204] 04 p0516 N84-13389
Volumetric representation for object model acquisition
12 p1870 N84-22189
MARTINE, J. E.
Relating geoid anomalies, gravity anomalies and ocean topography
[AD-A140112] 15 p2354 N84-25127
MARTINELLI, G.
Low noise amplifier with a JFET inlet stage
[IFSI-83-8] 05 p0677 N84-14452
Maximum entropy linear prediction method
[FUB-48-1982] 06 p0902 N84-15857
Linear prediction methods
[FUB-52-1982] 06 p0902 N84-15858
Geometric methods for linear prediction
[FUB-54-1982] 06 p0903 N84-15859
An efficient method for the conversion to residue number systems and its application to convolutions
[FUB-53-1982] 14 p2220 N84-24319
Weak interactions on the lattice
[TH.3774-CERN] 23 p3819 N84-34219
MARTINET, J.
Annals of the Fourier Institute, volume 34, no. 1
[ISSN-0373-0956] 22 p3633 N84-33025
Annals of the Fourier Institute, volume 34, no. 2
[ISSN-0373-0956] 22 p3635 N84-33038
MARTINEZ-GARCIA, J. J.
Study on optimal tracking strategy
[GMV-211/83] 08 p1113 N84-17243
MARTINEZ-MIRANDA, L. J.
X-ray diffuse scattering 22 p3682 N84-33341
MARTINEZ, B. S.
Status of research in progress at the Inhalation Toxicology Research Institute
[DE83-012610] 06 p0875 N84-15694
MARTINEZ, D. R.
Combined experimental/analytical modeling using component mode synthesis
[DE84-013147] 21 p3423 N84-31715
MARTINEZ, E. H.
Performance demonstration of a high-power space-reactor heat-pipe design
[DE83-012688] 01 p0145 N84-10952
MARTINEZ, F. E.
An evaluation of the effect of cell voltage and termination current on barrier anodic Al2O3 film formation
[DE83-013961] 02 p0195 N84-11266
MARTINEZ, J.
Compliance check on Japax electrical-discharge-wire machine
[DE84-001430] 05 p0676 N84-14447
MARTINEZ, M. C.
The vertical profile of reflectivity as an indicator of the active regions in PEP experiment
18 p2887 N84-28320
MARTINEZ, M. E. M. S.
Tensile properties of plastic propellant ICP 200-P129 with CIS 1.4 polyisoprene
[INTA-NT-N-223/410/83.038] 18 p2821 N84-27913
MARTINEZ, R.
Experiment in benchmarking database systems
[DE84-003840] 11 p1750 N84-21423
Qualitative study of the planar isosceles three-body problem
[PREPRINT-35] 20 p3133 N84-29896
Analytical model of the structureborne interior noise induced by a propeller wake
[NASA-CR-172381] 21 p3490 N84-32119
MARTINI, D.
Crystalline photoconductive films for electrophotographic recording
[BMFT-FB-T-84-099] 21 p3408 N84-31614
MARTINI, P. R.
Project SERGE: Brazil referential field data for the SIR-A experiment
[INPE-2973-NTE/210] 17 p2711 N84-27259
MARTINI, W. R.
Revised isothermal analysis program for Stirling engines
[DE83-017276] 03 p0384 N84-12504
MARTINKO, E. A.
An inventory of state natural resources information systems
[E84-10072] 07 p1020 N84-16619
MARTINO, J.
Expanded ignition effectiveness tests of selected igniter materials with Navy propellants
[AD-A134704] 08 p1125 N84-17312
Expanded ignition effectiveness tests of selected igniter materials with Navy propellants
13 p1949 N84-22671
Ignitibility studies of LOVA propellants
13 p1950 N84-22678
MARTINS, E.
Portable kernel for computers
[INPE-2877-PRE/403] 02 p0271 N84-11775
MARTINS, J. P.
Reasoning in multiple belief spaces
08 p1210 N84-17894
MARTINS, R. C. D. O.
BRESEX: On board supervision, basic architecture and preliminary aspects for payload and space shuttle interface
[NASA-CR-173673] 21 p3353 N84-31271
MARTINS, R. C. O.
A fault-tolerant multiprocessing unit for on-board satellite supervision and control
[INPE-3244-PRE/590] 24 p3866 N84-34500
MARTINS, R. V.
Lagrangian singularities: Applications
19 p3118 N84-29812
MARTINSON, A. A.
Plasma particle acceleration due to emission of ground-based and onboard transmitters
05 p0636 N84-14181
Plasma processes in the region of electron beam injection from a high altitude payload
05 p0637 N84-14194
Plasma processes caused by an electron beam injected from a high altitude rocket probe. Part 1: Neutralization processes
[IWF-8302] 17 p2728 N84-27363
Plasma processes caused by an electron beam injected from a high altitude rocket probe. Part 2: Studies of beam-plasma discharge
[IWF-8303] 17 p2728 N84-27364
MARTIO, O.
F-harmonic measure in space
04 p0576 N84-13794
MARTNER, B. E.
Cloud physics studies in SCPP (Sierra Cooperative Pilot Project) during 1982-1983
[PB84-176452] 17 p2735 N84-27384
MARTONCHIK, J. V.
Correlation spectrometer having high resolution and multiplexing capability
[NASA-CASE-NPO-15558-1] 24 p3901 N84-34705
MARTONE, J. A.
Industrial hygiene data for F-16 aircraft refueling inside closed aircraft shelters. Supplementary
[AD-A138364] 12 p1865 N84-22154
An industrial hygiene evaluation of F-16 aircraft refueling inside closed aircraft shelters
[AD-A138501] 12 p1866 N84-22157
MARTONE, P. J.
Anomalous propagation and radar coverage through inhomogeneous atmospheres 15 p2326 N84-24967
MARTONE, R.
An explosive ordnance disposal protective suit
[AD-D011072] 19 p3071 N84-29483
MARTORELLA, R. P.
Control definition study for advanced vehicles
[NASA-CR-3738] 07 p0958 N84-16212

MARTOS, A.
Mechanical construction of the 22 Nova laser
[DE84-005432] 11 p1663 N84-20855
MARTYNENKO, Y. G.
Probabilistic characteristics of perturbation torques in gyroscopes with electrostatic suspension
17 p2643 N84-26913
MARTYSHEVSKIY, Y. V.
Evaluation of the limiting accuracy in determining the coordinates of a point light source by a television tracking system using an image dissector with the presence of a nonstationary current component
22 p3571 N84-32613
MARU, H.
Development of molten carbonate fuel cell technology
[DE84-004856] 15 p2364 N84-25183
MARUGAN, J.
GEOS 1 and 2 in flight evaluation of the reaction control system
[SEP-TS/S/194/JM/30301/81(1)]
08 p1113 N84-17242
MARULO, F.
Aerodynamic instability of cable-stayed bridges: Theoretical experimental study of stall flutter
18 p2789 N84-27700
Preliminary experimental and theoretical results on cantilever vibration absorbers applied for aircraft cabin vibration
[SPER-8390] 18 p2794 N84-27730
Theoretical and experimental results of dynamic behavior of periodically stiffened cylindrical shell
18 p2794 N84-27731
Experimental modal analysis of a partial full-scale fuselage of turboprop aircraft 18 p2794 N84-27732
On the stick-free longitudinal dynamic stability of a general aviation aircraft equipped with an all-movable horizontal tail 18 p2797 N84-27748
MARUSIY, O. I.
Microstructure of aluminum alloy in early stages of spalling 12 p1783 N84-21634
MARUSSI, A.
Geodesy and geotectonics 07 p1029 N84-16666
On the structure of the tidal field
07 p1030 N84-16679
MARUYAMA, Y.
Design and fabrication of a surface conversion negative ion source and an 80 keV pre-accelerator
[DE84-006753] 13 p2045 N84-23269
MARVIN, U. B.
Mineralogical investigations of lunar samples and meteorites
[NASA-CR-173246] 07 p1091 N84-17093
MARWITZ, J. D.
Cloud physics studies in SCPP (Sierra Cooperative Pilot Project) during 1982-1983
[PB84-176452] 17 p2735 N84-27364
MARX, L.
GCM sensitivity to 1982 - 1983 equatorial Pacific sea surface temperature anomalies
12 p1858 N84-22106
Impact of prescribed diabatic heating on short range weather forecasts 12 p1858 N84-22107
MARX, M. H.
Analysis of reward functions in learning: Unconscious information processing: Noncognitive determinants of response strength
[AD-A144152] 24 p3937 N84-34920
MARXER, N.
Optical and other property changes of M-50 bearing steel surfaces for different lubricants and additive prior to scuffing
[NASA-TM-83746] 24 p3888 N84-34620
MARYANOVICH, A. T.
Individual responses to combined heat and physical load 18 p2896 N84-28374
Dynamics of functional status and subjective sensations in process of heat adaptation 21 p3456 N84-31931
MARYENKO, B. S.
Realization of human work capacity: Interdisciplinary problems 21 p3454 N84-31920
MARYSKO, M.
Noncubic magnetic anisotropy in YSmLuCaFeGe garnet films 20 p3287 N84-30869
MARZEL, O.
Development of large area Multi-coloured Multifunctional Displays (MFA) in liquid crystal technology
[BMFT-FB-T-83-098] 02 p0300 N84-11970
MARZIALE, M. L.
Mass transfer from a circular cylinder: Effects of flow unsteadiness and slight nonuniformities
[NASA-CR-174759] 22 p3593 N84-32751
MAS, C.
Combustion of redox mixes in the Through Bulkhead Initiator (TBI) configuration
[SNIAS-841-422-115] 21 p3363 N84-31332
MASCARENHAS, N. D. A.
Digital image processing
[INPE-2873-PRE/402] 02 p0277 N84-11816
Digital image registration by sequential analysis
[INPE-2940-PHE/429] 03 p0376 N84-12446
Evaluation of entropy and JM-distance criterions as features selection methods using spectral and spatial features derived from LANDSAT images
[E84-10141] 16 p2507 N84-26089
On the relationship between Gaussian and binomial models for image registration by sequential tests of hypotheses
[INPE-3047-PRE/470] 16 p2548 N84-26350
MASCARENHAS, N. D. D.
Quality measures for estimating the proportions of different classes within a single image resolution element (Pixel)
[INPE-2791-PRE/354] 23 p3763 N84-33852
MASCHHOFF, R. M.
Nimbus-Earth radiation budget instrument analysis
[NASA-CR-172318] 14 p2175 N84-24029
MASCHHOGG, R. H.
NIMBUS-ERB instrument study
[NASA-CR-165922] 02 p0222 N84-11459
MASCHKE, A. W.
Inertial fusion with low-energy heavy ions
[DE83-016709] 03 p0446 N84-12934
Design desiderata for a laminar flow quadrupole-focused acceleration column
[DE84-006534] 12 p1903 N84-22395
Future accelerators using micro-fabrication technology
[DE84-002692] 21 p3496 N84-32157
MASDEA, A.
Frequency modulation with noise in a sampled Automatic Frequency Control (AFC) system
17 p2652 N84-26963
MASEGAWA, T.
Cyclic ST-AN codes and modular ST distance
[AD-P002367] 14 p2194 N84-24158
MASEL, R. I.
Surface ignition and heterogeneous catalysis of hydrocarbon fuels
[AD-A138214] 12 p1792 N84-21686
MASERJIAN, J.
Laser activated MTOS microwave device
[NASA-CASE-NPO-16112-1] 03 p0378 N84-12463
MASHIKO, K.
Research and development of long heat pipes and their applications 20 p3170 N84-30126
MASHIKO, S.
The design of an English word-processor for scientific and technical use in which superscripts, subscripts and Greek characters are operated in one-touch, 2
23 p3741 N84-33710
MASHINSKIY, A.
Birth of space plant growing
[NASA-TM-77244] 07 p1042 N84-16756
Development of space botany experiments
09 p1264 N84-18255
MASHKEVICH, O. L.
Nonequilibrium optical and acoustic phonons in semiconductors 21 p3485 N84-32085
MASHNIKOV, V. V.
Theory of the two-frequency operating mode of traveling-wave tubes of the O type
[AD-A137616] 11 p1646 N84-20763
MASI, M. A.
Proceedings of the Workshop on Multivariable Control Systems
[AD-A139050] 15 p2253 N84-24529
Digital multivariable tracker control laws for the C-141-A Starlifter aircraft
[AFIT/GE/EE/82D-47] 15 p2254 N84-24533
MASINI, G.
An experiment proposed and set up by the readers will be flying on board the Shuttle; these are the rules of the game; the experiments of others
[NASA-TM-77102] 17 p2612 N84-26718
MASINSKAS, J. J.
Detonation parameters for Australian high-explosives composition
[MRL-R-822] 17 p2628 N84-26812
Detonation parameters for Australian high-explosives composition
[AD-A143655] 23 p3726 N84-33609
MASK, R. L.
Afterbody propulsor performance validation for A 2.65 fineness ratio body advanced tactical vehicle
[AD-A131259] 01 p0060 N84-10517
MASKARINEC, M. P.
Developments in open tubular liquid chromatography
[DE84-010585] 18 p2812 N84-27853
Capillary zone electrophoresis: Instrumentation and use with nonaqueous solvents
[DE84-010617] 18 p2812 N84-27854
MASKEW, B.
Airloads on bluff bodies, with application to the rotor-induced downloads on tilt-rotor aircraft
[NASA-TM-84401] 02 p0174 N84-11142
Predicting aerodynamic characteristics of vortical flows on three-dimensional configurations using a surface-singularity panel method
03 p0323 N84-12112
MASKOW, J.
NC-controlled machine with a cable
[MBB-UT-21-83-O] 16 p2584 N84-26450
MASLENTSEVA, S. B.
Functional status in relation to work, performance and health 18 p2895 N84-28366
MASLOSKI, K.
Radiation testing of GaAs on CRRES and LIPS experiment 19 p3044 N84-29314
MASLOV, A. A.
Laminarization of a boundary layer in a supersonic nozzle by cooling of the surface
[NASA-TM-77341] 05 p0626 N84-14119
MASLOVA, M. N.
Dynamics of red blood cell changes in rats during acute immobilization 20 p3254 N84-30651
MASLOVA, N. B.
Asymptotic form of solution of problem of seasonal evolution of thermal regime in ocean
17 p2699 N84-27194
MASLOVSKAYA, S. G.
Use of electromagnetic field in patients following a disruption of cerebral circulation
07 p1044 N84-16768
MASON, A. E.
Durable copper polyimide adhesive bonds
[AD-A130221] 01 p0049 N84-10319
MASON, A. S.
Stratospheric tritium sampling
[DE84-006074] 12 p1848 N84-22045
MASON, D. M.
Mechanisms of catalytic oxidation of hydrocarbons in a solid-electrolyte fuel cell 11 p1742 N84-21366
MASON, D. W.
Computer aided construction of ground attack mission profiles over European terrain 06 p0772 N84-15060
MASON, F. C.
A report on superfluid helium flow through porous plugs for space science applications 06 p0930 N84-16043
MASON, J. A.
Space Station medical sciences concepts
[NASA-TM-58255] 11 p1693 N84-21040
MASON, J. D.
Comments on ISO/TC 97/SC 18/WG3 N120
[DE83-011391] 03 p0420 N84-12748
Short introduction to office applications of markup language
[DE83-011400] 04 p0582 N84-13844
MASON, J. T.
Apparatus for directional solidification
[DE83-016409] 02 p0196 N84-11271
A comparison of impedance measurement techniques in air
[AD-A143638] 23 p3821 N84-34232
MASON, M. L.
Aeropropulsive characteristics of nonaxisymmetric-nozzle thrust reversers at Mach numbers from 0 to 1.20
[NASA-TP-2306] 15 p2254 N84-24538
MASON, M. T.
Automatic planning of fine motions: Correctness and completeness
[AD-A137355] 10 p1568 N84-20269
MASON, P. V.
One year of stars, provided by the IRAS cryogenic system 10 p1442 N84-19416
MASON, R.
Chronic effects of repeated mechanical trauma to the skin: A description of the problem in the workplace
[PB84-181767] 20 p3261 N84-30695
MASON, R. L.
Effects of micronic filtration on turbine engine lubricant deposition
[AD-A141802] 19 p2999 N84-29007
Effects of wear metal on lubricant deposition
[AD-A142027] 19 p2999 N84-29008
MASON, S. B.
Temporal measurement of spectrally resolved output of multiline HF lasers
[AD-A137983] 12 p1819 N84-21859
MASON, T. O.
Defect clusters and electrical properties in transition metal monoxides
[DE84-014851] 22 p3666 N84-33242

MASON, W. A.
An investigation of cascade energy density effects using classical trajectory simulations of sputtering by molecular ions
[AD-A132539] 05 p0743 N84-14880
MASON, W. H.
A wing concept for supersonic maneuvering
[NASA-CR-3763] 06 p0781 N84-15115
The COREL and W12SC3 computer programs for supersonic wing design and analysis
[NASA-CR-3676] 08 p1096 N84-17130
Body and canard effects on an attached-flow maneuver wing at Mach 1.62
[NASA-TP-2249] 09 p1250 N84-18163
MASSA, F.
Search for the radiative decay of a cosmic relic particle with IUE 24 p3982 N84-35231
MASSAMBANI, O.
The vertical profile of reflectivity as an indicator of the active regions in PEP experiment 18 p2887 N84-28320
MASSARD, T. N.
Sharp PC-1500 pocket computer solutions to composite materials formulas
[AD-A130421] 01 p0031 N84-10193
Panasonic HR-1800 hand-held computer solutions to composite materials formulas
[AD-A139798] 15 p2391 N84-25352
MASSE, D.
A 20-GHz IMPATT diode development
[S-3057] 02 p0212 N84-11387
MASSE, P.
Balloon test project: Cosmic Ray Antimatter Calorimeter (CRAC)
[NASA-TM-77461] 23 p3750 N84-33772
MASSENA, W. A.
PAN AIR: A computer program for predicting subsonic or supersonic linear potential flows about arbitrary configurations using a higher order panel method. Volume 4: Maintenance document (version 1.1)
[NASA-CR-3254] 23 p3690 N84-33388
MASSEY, D. W.
Research and development of a plasma jet mass accelerator as a driver for impact fusion
[DE84-012940] 22 p3659 N84-33198
MASSEY, R. S.
Recent results from the ZT-40M reversed-field pinch program
[DE83-014149] 01 p0151 N84-10993
MASSIE, H.
A Specification Assistance System (SAS)
05 p0721 N84-14731
MASSIE, H. L., JR.
A statistical-dynamical model for forecasting cold air stratocumulus over the yellow sea
[AD-A141540] 19 p3058 N84-29403
MASSIN, J. M.
Remote sensing applied to marine pollution control
03 p0399 N84-12607
The remote sensing of oil pollution at sea: An attempt at synthesis 08 p1176 N84-17662
MASSINAS, A.
Researching the man-machine system as a function of soil-environment system 10 p1511 N84-19894
A stochastic model for the Man-Machine-Soil-Environment System (MMSES) and the influence of vibrations 10 p1512 N84-19895
MASSOL, J.
The effect of recycling on cast structures and the internal character of IN100 alloy: A laboratory study
23 p3705 N84-33485
MASSON, C.
Neutral carbon in the Egg Nebula (AFGL 2688)
[NASA-TM-84360] 16 p2574 N84-26518
MASSON, P.
Strapdown inertial systems for tactical missiles using mass unbalanced two-axis rate gyros
16 p2447 N84-25696
MAST, J. P.
Multidirectional force and moment transducer
17 p2629 N84-26816
Pressure compensated force transducer
17 p2629 N84-26817
MAST, M.
Technical applications of solar energy. Project photovoltaic systems and project selective coatings
[BMFT-FB-T-83-299] 12 p1844 N84-22025
MAST, P. W.
The effects of moisture on fracture toughness and thermal relaxation of stretched acrylic plastics
[AD-P003197] 17 p2591 N84-26610
MASTEROVA, M. V.
Generation of reactive stresses in TiNi alloy
24 p3875 N84-34556
MASTERS, A. I.
Fuel property effects on USN gas turbine combustors
14 p2107 N84-23636
MASTERS, C. D.
Speculations on the petroleum resources of Antarctica
14 p2160 N84-23938
MASTERSON, K. D.
Matrix approach for testing mirrors, part 1
[DE83-009398] 02 p0242 N84-11585
Matrix approach to testing mirrors, part 2
[DE83-011996] 04 p0558 N84-13676
Performance tests of the Solar Steam, Incorporated, 9-m deep-dish solar concentrating collector
[DE84-000079] 20 p3235 N84-30535
MASTIN, C. W.
Quasiconformal mappings and grid generation
[NASA-CR-173920] 22 p3644 N84-33105
MASTRANTONIO, G.
Orbiting wire as a dynamo: Auxiliary power possibilities for space platforms
[IFSI-83-3] 03 p0405 N84-12653
MASTY, A. F.
Development of a communications Front End Processor (FEP) for the VAX-11/780 using an LSI-11/23
[AD-A138152] 12 p1807 N84-21778
MASTYULIN, L. A.
Geophysical and tectonic characteristics of Mongolian-Okhotsk seismic zone
17 p2701 N84-27206
MASUBUCHI, K.
Improvement of reliability of welding by in-process sensing and control (development of smart welding machines for girth welding of pipes)
[DE83-017012] 01 p0091 N84-10595
Feasibility of remotely manipulated welding in space. A step in the development of novel joining technologies
[NASA-CR-175437] 11 p1664 N84-20857
MASUDA, T.
Electron capture cross sections in high energy He2+ + neutral Li collisions
[IPPJ-679] 21 p3500 N84-32182
MASUKO, H.
Measurements of microwave backscattering signatures of the ocean surface using X-band and Ka-band airborne scatterometer/radiometer system
23 p3771 N84-33907
Remote sensing of rain by an airborne dual-frequency microwave scatterometer/radiometer
23 p3774 N84-33927
MASUKO, Y.
An experimental system of FM data-broadcasting
[NHK-SERIAL-293] 15 p2319 N84-24919
MASURE, B.
Towards a better understanding of helicopter external noise
[SNIAS-832-210-113] 16 p2554 N84-26388
MASURSKY, H.
Characterization of surficial geologic units on Venus from Pioneer Venus radar data: A progress report
13 p2076 N84-23454
MASUYA, G.
A study of air breathing rockets. 3: Supersonic mode combustors
[NAL-TR-756] 04 p0489 N84-13213
MASYURENKO, Y. A.
Phase light range finder 21 p3380 N84-31447
MATANO, H.
L infinity stability of an exponentially decreasing solution of the problem Delta u + f(x,u) = o in r(n)
[AD-A141601] 19 p3085 N84-29582
MATARAJAN, K.
Separation and staging mechanisms for the Indian SLV-3 launch vehicle 15 p2349 N84-25095
MATECKA, B.
A method for obtaining new derived benzimidazoles
[AD-A144320] 24 p3867 N84-34507
MATECKI, R.
Determination of external store drag
24 p3847 N84-34397
MATEJCZYK, D.
Retardation analytical model to extend service life
[NASA-CR-173891] 22 p3608 N84-32862
MATEKI, L.
Magnetically enhanced hydrogen gas dissociator: A progress report 16 p2479 N84-25892
MATHENEY, J. L.
A dc to dc converter
[NASA-CASE-MFS-25430-1] 07 p0995 N84-16453
MATHER, J. C.
Thermal detectors as X-ray spectrometers
[NASA-TM-86092] 14 p2148 N84-23866
Submillimeter wavelength survey of the galactic plane from l = -5 deg to l = +62 deg: Structure and energetics of the inner disk
[NASA-TM-86077] 20 p3319 N84-31069
MATHERS, C. D.
Optical methods of measuring loudspeaker diaphragm movement
[BBC-RD-1983/13] 04 p0517 N84-13396
MATHES, E.
Development of technology, circuit design and simulation procedures for Very Large Scale Integration (VLSI) systems, volume 1
[BMFT-FB-T-83-170-VOL-1] 10 p1487 N84-19724
Development of technology, circuit design and simulation procedures for Very Large Scale Integration (VLSI) systems, volume 2
[BMFT-FB-T-83-170-VOL-2] 10 p1487 N84-19725
MATHES, H. B.
Analysis of acoustic chamber pressure oscillations in shuttle high-pressure SRB's 13 p1946 N84-22651
MATHESON, K. L.
Satellite tactical communications at high altitudes
[AD-P002145] 14 p2137 N84-23810
MATHESON, L. D.
High frequency radar software reference manual for product one
[PB84-194885] 22 p3578 N84-32665
MATHESON, W. F.
Continued development of a universal network interface device using the Intel 8086 and 8089 16-bit microprocessors
[AD-A138118] 12 p1891 N84-22319
MATHEW, D.
Estimation of uncertainty in coal resources
[DE83-902538] 03 p0401 N84-12620
MATHEWS, F. H.
An explosive driven shock tube for verifying survival of radioisotope heat sources during space shuttle launch accident 10 p1509 N84-19876
MATHEWS, G. J.
Radioactive-ion-beam research at Livermore
[DE83-014872] 02 p0297 N84-11946
Comparisons between observational color-magnitude diagrams and synthetic cluster diagrams for young star clusters in the Magellanic Clouds
[DE84-001870] 07 p1089 N84-17085
MATHEWS, J. D.
The discrete prolate spheroidal filter as a digital signal processing tool 17 p2696 N84-27174
MATHEWS, K. A.
Discrete elements method of neutral particle transport
[AD-A138080] 12 p1902 N84-22384
MATHEWS, L. A.
Analysis of particulates in the exhaust plume of a TF30 engine at military power
[AD-A142510] 20 p3131 N84-29882
MATHEWS, M. E.
Scale model testing for control system parameters of large structures
[AD-A135652] 09 p1273 N84-18313
MATHEWS, R. J.
Permeability of flexible materials used in fuel storage tanks. Part 2: A method of measurement and preliminary results
[AD-A133451] 06 p0853 N84-15558
MATHEWS, S. H.
Machine intelligence research applied to industrial automation
[PB84-123348] 10 p1473 N84-19618
MATHEWS, W. G.
FOSS (Fiber Optic Sensor System) FDM (Feasibility Demonstration Model) electrooptical tow cable termination
[AD-A131319] 02 p0294 N84-11925
MATHIESEN, L.
Computational experience in solving equilibrium models by a sequency of linear complementarity problems
[DE83-011189] 01 p0124 N84-10811
MATHIEU, J. B.
On-site measurement of the speed of corrosion of a metal in water
[BLL-T6310/BG/WH770/84] 22 p3552 N84-32488
MATHIEU, J. P.
Two-phase heat transport system conceptual studies
[SABCA-JPM/LN/HO5/N117] 18 p2807 N84-27822
MATHIEU, R. D.
The structure, internal kinematics and dynamics of open star clusters 23 p3839 N84-34357
MATHIOUDAKIS, K.
Structure of rotating stall cells. Part 1: Absolute motion 16 p2489 N84-25967
Structure of rotating stall cells. Part 2: Relative motion 16 p2490 N84-25970
MATHIPRAKASAM, B.
Experimental results for the rapid determination of the freezing point of fuels
[NASA-CR-168305] 09 p1290 N84-18419

MATHIS, M. G.
Computer simulation studies of sputtering and multimer formation from clean and oxygen reacted surfaces of titanium, vanadium and niobium
[AD-A141996] 20 p3308 N84-31009
MATHIS, R. A.
Isotope dependence of the breakdown strength of gases
[DE83-017272] 03 p0373 N84-12430
MATHISEN, O. A.
Hydroacoustics research in Seattle, Washington, 1967 - 1981. An annotated bibliography
[PB83-220483] 01 p0111 N84-10722
MATHU, W. L. S.
Computerised optical fibre characterisation
11 p1727 N84-21266
MATHUR, A. B.
Experimental investigation of the internal flow field in STOL engine inlets 13 p1827 N84-22544
MATHUR, K. C.
Elastic scattering of positrons with hydrogen and lithium atoms at intermediate energies
[DE84-701187] 24 p3962 N84-35092
MATHUR, N. C.
Numerical modeling techniques for half-space (ground) problems 03 p0365 N84-12374
Polarization utilization in radar target reconstruction: C-wide (Multi-frequency) band relationship of a target's characteristic operators with its unique set of natural eigenfrequencies
[AD-A140092] 15 p2321 N84-24938
MATHUR, S. C.
Piezoelectric properties and ferroelectric hysteresis effects in unaxially stretched Nylon-11 films
[AD-A140683] 17 p2768 N84-27575
MATHUR, V. K.
Properties of principal TL (thermoluminescence) dosimeters
[AD-A143635] 23 p3751 N84-33776
MATIC, P.
Mechanical response of materials with physical defects. Part 3. A material testing program for size and rate effects
[AD-A133762] 05 p0693 N84-14548
A pseudo-elastic material damage model involving local stiffness change and crack growth
11 p1667 N84-20873
MATIN, L.
Spatial localization in strabismic observers
[AD-A132748] 06 p0890 N84-15784
MATKOWSKY, B. J.
First passage times in stochastic differential equations of mathematical physics and engineering
[AD-A131705] 03 p0417 N84-12728
Bifurcation and stability theory with application to problems of combustion and flame propagation
[AD-A135383] 08 p1124 N84-17306
MATL, K.
Laser light scattering at the POSEIDON plasma focus device 10 p1584 N84-20384
MATLOCK, D. K.
Ferrous alloy metallurgy: Liquid-lithium corrosion and welding
[DE84-003011] 07 p0975 N84-16317
Ferrous alloy metallurgy, liquid lithium corrosion and welding
[DE84-014656] 22 p3556 N84-32517
MATONICK, J.
Study of particulate formation and radiant heat loss in direct injection-type diesel engines
[PB84-160100] 15 p2344 N84-25073
MATOUSEK, M.
Measures against errors in the building process
[NRC/CNR-TT-2067] 06 p0814 N84-15295
MATRANGA, V. A.
Development program for a 200kW, CW gyrotron
[DE84-007945] 14 p2149 N84-23674
MATSCHAT, K.
The effect of aircraft with noise certificates according to class ICAO Annex 16 on the determination of noise protection domains following the law on protection against aircraft noise
[MPIS-117/1983] 23 p3821 N84-34234
MATSEPURIO, A. D.
Structure formation in an electric field and the composition of electrorheological suspensions
[AD-B081902] 16 p2462 N84-25777
MATSON, C. L.
Dependence of holographic grating formation upon interference pattern orientation in bismuth silicon oxide
[AD-A138099] 12 p1818 N84-21852
MATSON, J. C.
An optical surface tracking device which determines a solid propellant's burning rate 13 p1944 N84-22638
MATSON, M.
Fire detection using the NOAA (National Oceanic and Atmospheric Administration)-series satellites
[PB84-176890] 17 p2722 N84-27324
MATSON, R. J.
Magnetron sputtered gold contacts on n-GaAs
09 p1393 N84-19098
MATSUBARA, I.
Field trial of composite fiber-optic overhead ground wire 11 p1720 N84-21221
MATSUBARA, Y.
An application of gap regenerator/expander precooled by two stage G-M refrigerator 06 p0819 N84-15337
Compact Claude cycle refrigerator for laboratory use
06 p0819 N84-15338
MATSUI, H.
Measurements of CARS intensity in hydrogen molecule behind shock waves 07 p0984 N84-16375
MATSUMOTO, A.
Electron capture cross sections in high energy He2+ + neutral Li collisions
[IPPJ-679] 21 p3500 N84-32182
MATSUMOTO, H.
Anomalous surface impedance in reentrant ferromagnetic superconductors
[DE84-012634] 22 p3664 N84-33230
MATSUMOTO, M.
Synthesis of multivalued logic circuits using hyperplanes
[AD-P002335] 14 p2190 N84-24126
The dc acceleration of charged particles by an electrostatic wave propagating obliquely to a magnetic field vector B sub O
[IPPJ-671] 19 p3106 N84-29735
Relativistic vector sub p x vector sub b acceleration of charged particles by an obliquely propagating electrostatic wave
[IPPJ-680] 21 p3500 N84-32183
MATSUMOTO, S.
Development of a new, completely implantable intraventricular pressure meter and preliminary report of its clinical experience
[NASA-TM-77121] 16 p2535 N84-26276
MATSUMOTO, T.
Zero gravity experiment of superfluid helium
[ISAS-604] 07 p0960 N84-16225
Programmable masks for optical information processing 12 p1906 N84-22415
MATSUMOTO, Y.
Measurements of CARS intensity in hydrogen molecule behind shock waves 07 p0984 N84-16375
MATSUMURA, H.
Effects of applied pressure on hot-pressing of Beta-SiC
[NASA-TM-77397] 23 p3723 N84-33593
MATSUNAMI, N.
Energy dependence of the yields of ion-induced sputtering of monatomic solids
[IPPJ-AM-32] 07 p1076 N84-16992
MATSUO, J. T.
Aircrew Gliding Escape System (AGES) exploratory development investigation of aircrew emergency escape ram-air inflated, flexible wing
[AD-A139928] 15 p2258 N84-24565
MATSUOKA, K.
Ion Bernstein wave heating experiment on JIPPT-II-U device
[IPPJ-662] 11 p1734 N84-21305
Start-up and quasi-stationary drive of plasma current by lower hybrid wave in the JPII T-IIU Tokamak
[IPPJ-667] 15 p2409 N84-25461
MATSUSHIMA, K.
Lunar exploration by polar orbiter
[NAL-TR-755] 09 p1416 N84-19265
MATSUSHITA, M.
Degradation of thermal shield materials in the space radiation environment 10 p1446 N84-19448
MATSUSUE, K.
Tensile strength of pressureless-sintered silicon nitride at elevated temperature
[NAL-TR-753] 04 p0548 N84-13611
Strength evaluation test of pressureless-sintered silicon nitride at room temperature
[NASA-TM-77394] 14 p2119 N84-23700
MATSUURA, K.
Visible-light imaging MHD studies of the edge plasma in the JIPP-T-IIU Tokamak
[IPPJ-683] 23 p3827 N84-34272
MATSUURA, Y.
A first attempt to identify areas of high probability for the occurrence of surface skipjack schools (Katsuwonus pelamis), from an analysis of oceanographic data for the south-southeast region of Brazil
[INPE-2972-RPE/449] 23 p3803 N84-34112
MATSUYAMA, T.
Evidence accumulation for spatial reasoning in aerial image understanding
[AD-A139874] 15 p2336 N84-25025
Evidence accumulation for spatial reasoning
[AD-A142174] 19 p3042 N84-29302
MATSUZAKI, Y.
Shock and seismic response spectra in design problems 10 p1506 N84-19856
MATTA, J.
Diurnal rhythm in the cell-division frequency of prochloron (prochlorophyta) in nature
10 p1544 N84-20118
MATTAR, F. P.
Transverse and quantum effects in light control by light; (A) parallel beams: Pump dynamics for three level superfluorescence; and (B) counterflow beams: An algorithm for transverse, full transient effects in optical bi-stability in a Fabryperot cavity
[AD-A136906] 10 p1578 N84-20342
MATTAS, R. F.
Self-pumping impurity control by in-situ metal deposition
[DE83-014265] 02 p0195 N84-11265
Self-pumping impurity by in-situ metal deposition
[DE83-017937] 03 p0355 N84-12306
MATTEO, D. N.
Improving slipring performance
15 p2347 N84-25086
MATTERN, G.
Migration of natural gas and resevoir formation in east lower Saxony
[BMFT-FB-T-83-153] 02 p0250 N84-11639
MATTES, H.
Determination of thermal-degradation rates of some candidate Rankine-cycle organic working fluids for conversion of industrial waste heat into power
[DE84-009585] 20 p3197 N84-30304
MATTHAEUS, W. H.
Determining the alpha dynamo parameter in incompressible homogeneous magnetohydrodynamic turbulence
[NASA-TM-85110] 02 p0295 N84-11936
Magnetohydrodynamic turbulence in the solar wind
03 p0467 N84-13073
Power spectral signatures of interplanetary corotating and transient flows
[NASA-TM-86051] 08 p1244 N84-18131
Particle acceleration by turbulent magnetohydro-dynamic reconnection
[NASA-TM-86121] 16 p2558 N84-26409
MATTHECK, C.
Solving crack problems with analytical techniques and the finite elements method
[BLL-RISLEY-TR-4940-(9091.9F)]
20 p3200 N84-30325
MATTHES, H.
Production oriented 3-5 epitaxy
[BMFT-FB-T-83-286] 13 p2048 N84-23290
MATTHES, K.
Windpower utilization from the point of view of the Federal Ministry of Research and Technology
23 p3785 N84-34006
MATTHEWS, A. J.
Snow characterization instruments
[AD-A131984] 03 p0411 N84-12687
MATTHEWS, C. G.
Computer generated animation and movie production at LARC: A case study
[NASA-CR-172375] 18 p2917 N84-28494
MATTHEWS, D.
Soft X-ray laser experiments at Norvette Laser Facility
[DE84-012594] 21 p3410 N84-31627
MATTHEWS, D. A.
Analysis and classification of mesoscale cloud and precipitation systems
[PB84-138999] 10 p1542 N84-20104
Analysis and classification of mesoscale cloud and precipitation systems 10 p1542 N84-20107
MATTHEWS, D. L.
Experiments to study the feasibility of making an X-ray laser at the Novette laser facility
[DE83-015615] 03 p0380 N84-12476
Line intensities for diagnosing laser-produced plasmas
[DE84-009857] 19 p3106 N84-29738
Diagnostics for an XUV/soft X-ray laser
[DE84-012593] 21 p3410 N84-31628
MATTHEWS, E.
Vegetation, land-use and seasonal albedo data sets: Documentation of archived data tape
[E84-10133] 15 p2357 N84-25142
Prescription of land-surface boundary conditions in GISS GCM 2: A simple method based on high-resolution vegetation data bases
[NASA-TM-86096] 21 p3430 N84-31761

MATTHEWS, G. J.
Applications for fission product data to problems in stellar nucleosynthesis
[DE84-004819] 10 p1596 N84-20458
MATTHEWS, H. B.
Sperry Low Temperature Geothermal Conversion System, Phase 1 and Phase 2. Volume 3: Systems description
[DE84-008042] 18 p2876 N84-28260
MATTHEWS, J. E.
Mechanical details of a modified Hamilton Frame velocimeter
[AD-A136180] 09 p1318 N84-18613
MATTHEWS, R.
Research in VLSI systems. Heuristic programming project and VLSI theory project. A fast turn around facility for very large scale integration (VLSI)
[AD-A134809] 06 p1151 N84-17494
MATTHEWS, W.
A simulation process for determining reliability of cyclic random loaded structures
[AD-P003849] 24 p3939 N84-34936
MATTHIESSEN, C. M. I. M.
Systemic grammar in computation: The Nigel case
[AD-A139251] 14 p2209 N84-24262
MATTIELLO, M. D. F.
Portable kernel for computers
[INPE-2877-PRE/403] 02 p0271 N84-11775
MATTILA, P.
On the structure of self-similar fractals
04 p0576 N84-13791
MATTIS, D. C.
Quantum solutions and strange solutions in many-body problems
[AD-A140436] 16 p2565 N84-26459
MATTIS, R. L.
Semiconductor measurement technology: A FORTRAN program for analysis of data from microelectronic test structures
[PB83-263764] 05 p0677 N84-14454
MATTON, R. W.
Preparation and properties of polyurethane and polyurethaneurea elastomers from methylene bis(4-cyclohexylisocyanate)
[AD-A137645] 11 p1637 N84-20704
MATTOX, D. M.
Thick deposits and overlays for fusion-reactor applications
[DE83-014626] 02 p0293 N84-11919
Wide spectrum antireflective coating for laser fusion systems
[DE84-013211] 22 p3601 N84-32814
MATTSSON, S.
Radio spectrum conservation technique
[FOA-C-30358-E2] 23 p3732 N84-33653
MATTY, D. G.
Constraint driven synthesis of hardware design
08 p1207 N84-17870
MATUK, C. A.
Design and fabrication of a surface conversion negative ion source and an 80 keV pre-accelerator
[DE84-006753] 13 p2045 N84-23269
MATULAITIS, J.
A comprehensive model to determine the effects of temperature and species fluctuations on reaction rates in turbulent reaction flows
[NASA-CR-175365] 08 p1155 N84-17520
MATUSHKIN, N. N.
Adaptive analog-to-digital converter
22 p3567 N84-32591
MATVEYENKO, L. I.
Three-element radiointerferometer with very long baselines 19 p2974 N84-28853
MATVEYEV, L. K.
Well-developed convective cloud cover as source of internal waves 18 p2865 N84-28187
MATVEYEV, V. V.
Influence of aging in martensite state on mechanical properties of Cu-Al-Zn system Beta-alloy
12 p1784 N84-21641
Novel technological solutions to treatment of threads in micrometric measuring tools
17 p2641 N84-26900
Procedure for determination of damping capability of turbomachine blades subjected to heat and centrifugal forces 17 p2642 N84-26905
MATVEYKIN, V. M.
Transformers with voltage regulation for electric supply networks 17 p2639 N84-26881
MATZUK, G. J.
Preliminary operating assessment advanced Heat Recovery Incinerator (HRI). Site One: O'Connor Combustor Corporation
[AD-A131254] 01 p0103 N84-10667
MAU, T. K.
Fusion reactors: Physics and technology
[DE83-017148] 08 p1232 N84-18055
MAUDUYT, J.
Thermal control of the SPOT HRV instrument
10 p1445 N84-19441
MAUER, G. M., JR.
A critique of NAVSTAR Global Positioning System, user equipment, configuration control for DoD common and Navy unique items
[AD-A131234] 01 p0008 N84-10047
MAUERFR, M.
Laser-plasma interaction and self organization phenomena in magnetoplasmas
10 p1584 N84-20382
MAUGHMER, M. D.
Trailing edge flow conditions as a factor in airfoil design
[NASA-CR-173294] 08 p1098 N84-17140
MAULARD, J.
Computation of noise radiating from a free jet perpendicular to its axis via laser anemometry measurements
[ONERA-NT-1983-6] 16 p2554 N84-26387
MAULDIN, G. H.
Performance of the perfluorocarbon liquid/plastic film capacitor technology in repetitive discharge pulse power service
[DE83-012502] 01 p0073 N84-10477
The performance of the perfluorocarbon liquid/plastic-film capacitor technology in pulse-power service. A current status report
[DE83-014606] 03 p0369 N84-12402
Test techniques for model development of repetitive service energy storage capacitors
[DE84-004312] 11 p1674 N84-20925
MAULDIN, J.
System analysis for the Huntsville Operational Support Center distributed computer system
[NASA-CR-171136] 22 p3643 N84-33097
MAURER, F.
The European Transonic Windtunnel (ETW)
14 p2094 N84-23566
MAURER, M.
Theoretical treatment of turbulent plasma dynamics
10 p1584 N84-20381
The significance of the pinch phase for the production of neutrons in a plasma focus
[IPF-83-2] 14 p2231 N84-24379
MAURICE, E.
Thermal constraints in a helicopter during long duration flights under extreme climatic conditions
11 p1698 N84-21078
MAURO, C. A.
On the performance of two-stage group screening experiments
[AD-A131970] 03 p0428 N84-12807
A note on the analysis of random balance designs
[AD-A133267] 06 p0901 N84-15848
A comparison of random balance and two-stage group screening designs, part 1
[AD-A136487] 09 p1376 N84-18984
Design of experiments in simulation
[AD-A137229] 10 p1562 N84-20236
Research on factor screening in computer simulation
[AD-A139825] 15 p2392 N84-25353
MAUS, J. R.
Explanation of the hypersonic longitudinal stability problem: Lessons learned 01 p0021 N84-10130
MAUSER, W.
Calculation of flood hydrographs using satellite-derived land-use information in the Dreisam watershed, S. W. Germany 23 p3771 N84-33904
MAUTNER, T. S.
Investigation of the wall pressure, wall shear stress and velocity fields associated with a turbulent spot in a laminar boundary layer 04 p0531 N84-13488
MAUTZ, J. R.
Analytical evaluation of the potential due to a uniformly charged planar triangular region
[AD-A130810] 01 p0138 N84-10907
Electromagnetic coupling between a conducting body and an aperture in an infinite conducting plane
[AD-A136394] 12 p1898 N84-22361
Calculation of the excess inductance of a microstrip discontinuity
[AD-A143819] 23 p3742 N84-33718
MAVRETIC, A.
A probe for measuring spacecraft surface potentials using a direct-gate field effect transistor
[AD-A140024] 15 p2283 N84-24706
MAVROGENES, G.
High charge picosecond pulses with a double gap subharmonic buncher
[DE83-011743] 01 p0143 N84-10939
MAVROIDES, J. G.
Electronic properties of grain boundaries in GaAs: A study of oriented bicrystals prepared by epitaxial lateral overgrowth
[AD-A144358] 24 p3967 N84-35118
MAWARDI, O. K.
Superconductivity for electromagnetic guns
[AD-A140665] 17 p2764 N84-27556
MAX, S. R.
Sex steroids do not affect muscle weight, oxidative metabolism or cytosolic androgen reception binding of functionally overloaded rat Plantaris muscles
[NASA-CR-173630] 17 p2739 N84-27394
MAXIMON, L. C.
Piece-wise analytic evaluation of the radiative tail from elastic and inelastic electron scattering
[PB84-155290] 14 p2223 N84-24342
MAXWELL, D. C.
Evaluation of COD (Crack-Opening-Displacement) compliance determined crack growth rates
[AD-A144037] 23 p3761 N84-33838
MAXWELL, M. S.
High resolution observations of low contrast phenomena from an Advanced Geosynchronous Platform (AGP)
17 p2712 N84-27266
MAXWELL, T. A.
Morphology of buried craters: Lava thickness estimates by simulated flooding 13 p2079 N84-23471
Compressional features in the Tharsis Region of Mars: Geographic 13 p2090 N84-23538
Compressional features in the Tharsis Region of Mars: Orientations and Timing of Deformation
13 p2090 N84-23539
Morphologic studies of the Moon and planets
[NASA-CR-173686] 22 p3678 N84-33319
MAXWORTHY, T.
Waves on vortex cores and their relation to vortex breakdown 03 p0326 N84-12128
MAY, C. E.
Kinetics of chromium ion absorption by cross-linked polyacrylate films
[NASA-TM-83661] 14 p2118 N84-23693
Calculation of vaporization rates assuming various rate determining steps: Application to the resistojet
[NASA-TM-83757] 21 p3355 N84-31283
MAY, E. K.
Direct steam generation in line-focus solar collectors
[DE83-006030] 06 p0872 N84-15678
Determination of freeze protection heat loss from a parabolic trough solar system
[DE84-000005] 06 p0874 N84-15689
MAY, G. A.
Classification and area estimation of land covers in Kansas using ground-gathered and LANDSAT digital data
[E84-10068] 06 p0865 N84-15637
MAY, M.
Direct measurement of Earth's vertical deflection using global positioning system
[AD-D011099] 22 p3534 N84-32373
MAY, M. E.
Microbial deterioration of hydrocarbon fuels from oil shale, coal and petroleum. III: Inhibition of fungi by fuels from coal
[AD-A137177] 10 p1469 N84-19596
MAY, R. G.
Television system for monitoring target position in laser thermonuclear fusion experiments
13 p1969 N84-22781
MAY, S. D.
Tectonic evolution of the Arctic continental margin in the Beaufort and Chukchi Seas: Evidence from seismic reflections 14 p2164 N84-23958
MAYA, I.
Low-activation fusion-reactor design studies
[DE83-017688] 04 p0608 N84-14014
MAYBERRY, M. C.
Specific heat of He-3 in the Fermi liquid region
[DE83-011566] 06 p0924 N84-16009
Specific heat of He-3 in the Fermi-liquid region
[DE83-014858] 08 p1162 N84-17566
MAYBERRY, M. J.
Particle confinement during lower-hybrid current drive in the Versator 2 Tokamak
[DE84-008941] 19 p3106 N84-29737
MAYER-STOEHR, J.
Regular and stochastic motions of charged particles in electrostatic waves
[IPF-83-7] 14 p2223 N84-24341
MAYER, E.
Control and supervision of nut fastening by means of a microcomputer
[BMFT-FB-T-84-106] 23 p3757 N84-33818

MAYER, G.
Nondestructive Evaluation Technology Working Group report (IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability study)
[AD-A139484] 14 p2156 N84-23919
MAYER, G. J.
A CCD photometric camera for satellite observation
[AD-A137214] 11 p1660 N84-20833
Expected energy method for electro-optical SNR calculations
[AD-A139984] 15 p2398 N84-25389
MAYER, J. W.
Pulsed laser melting: The effect of implanted solutes on the resolidification velocity
[DE84-003252] 07 p1010 N84-16552
Modification of the near surface region metastable phases and ion induced reactions
[AD-A138842] 13 p1952 N84-22694
MAYER, M. D. G.
Measurements of elongational viscometry using a fiber spinning technique. Part 1: Modifications to the Sangamo Schlumberger elongational viscometer model E4
[AD-A140002] 15 p2333 N84-25010
MAYER, T. A.
Documentation of NCAR (National Center for Atmospheric Research) CCMOB program modules
[PB83-263996] 05 p0710 N84-14651
MAYER, V. I.
Interpreting three-dimensional gravitational and magnetic anomalies 20 p3224 N84-30486
MAYER, W. G.
Ultrasonic reflection from solid halfspaces and from solid plates
[AD-A129686] 01 p0140 N84-10916
Characterization and scattering of bounded ultrasonic beams
[AD-A138491] 12 p1899 N84-22369
MAYERHOFER, F.
Optically nonlinear materials for tunable UV-lasers
[BMFT-FB-T-84-133] 23 p3755 N84-33806
MAYES, C. B.
Surplus Facilities Management Program. Post-remedial-action survey report for SNAP-8 Experimental Reactor Facility, building 010 site, Santa Susana Field Laboratories, Rockwell International, Ventura County, California
[DE84-009591] 21 p3497 N84-32165
MAYES, W. H.
Noise-reduction measurements of stiffened and unstiffened cylindrical models of an airplane fuselage
[NASA-TM-85716] 09 p1386 N84-19052
MAYHALL, D. J.
Dynamic characteristic of intense short microwave propagation in an atmosphere
[DE84-002788] 21 p3387 N84-31496
MAYHEW, B. H.
Multivariable digital control laws for the UH-60A black hawk helicopter
[AD-A141046] 18 p2797 N84-27746
MAYHEW, M. A.
A compilation of mineral occurrences and the relationship of occurrences to structural elements of the Kentucky and Tennessee region
[NASA-CR-175240] 18 p2878 N84-28275
MAYLE, R. E.
Mass transfer from a circular cylinder: Effects of flow unsteadiness and slight nonuniformities
[NASA-CR-174759] 22 p3593 N84-32751
MAYNARD, E.
VHSIC technology working group report (IDA/OSD R&M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A137720] 11 p1646 N84-20766
MAYNARD, J. D.
Parametric acoustic array formation via weak collinear and noncollinear interaction in dispersive fluids
[AD-A133660] 05 p0675 N84-14436
Experimental study using Nearfield Acoustical Holography of sound transmission fuselage sidewall structures
[NASA-CR-173639] 17 p2671 N84-27024
MAYNARD, J. F.
GENIE: A computer-based task for experiments in human-computer interaction
[AD-A137473] 10 p1553 N84-20181
MAYNE, D.
Study of biological samples obtained from victims of MGM Grand Hotel fire 04 p0514 N84-13374
MAYO-WELLS, J. F.
Center for electronics and electrical engineering technical progress bulletin covering signals and systems program, April 1982 - September 1982
[PB83-241158] 03 p0369 N84-12405
Center for Electronics and Electrical Engineering Technical Progress Bulletin covering center programs, October - December 1982
[PB84-137322] 11 p1705 N84-21115
MAYO, B. R.
Directed energy technology working group report IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A137332] 10 p1504 N84-19830
MAYO, F. R.
Basic study of fuel storage stability
[AD-A142194] 19 p2966 N84-28799
MAYO, L. H., JR.
National airspace review benefits and costs
[FAA-AT-84-1] 19 p2961 N84-28765
MAYO, W. E.
X-ray topographic methods and application to analysis of electronic materials 18 p2940 N84-28645
MAYOROV, A. D.
Modeling of beam-plasma discharge in the laboratory 05 p0638 N84-14200
Plasma processes caused by an electron beam injected from a high altitude rocket probe. Part 1: Neutralization processes
[IWF-8302] 17 p2728 N84-27363
Plasma processes caused by an electron beam injected from a high altitude rocket probe. Part 2: Studies of beam-plasma discharge
[IWF-8303] 17 p2728 N84-27364
MAYR, E. W.
Synthesis of efficient structures for concurrent computation
[AD-A135892] 09 p1368 N84-18930
MAYS, A. B.
Microcomputer aided tracking (MCAT)
[AD-A130651] 01 p0065 N84-10426
MAYS, C. R.
Space Station Technology, 1983
[NASA-CP-2293] 09 p1268 N84-18277
MAYSTRENKO, A. L.
Fracture toughness of crystalline and composite superhard materials 24 p3868 N84-34516
MAYVILLE, R. A.
Use of holographic linear Fringe Linearization Interferometry (FLI) for detection of defects
[AD-A129323] 01 p0083 N84-10543
Holographic FLI (Fringe Linearization Interferometry) for detection of defects
[AD-A135663] 09 p1318 N84-18612
Holographic FLI for detection of defects
[AD-A142733] 20 p3189 N84-30258
MAZARAKIS, M. G.
IBEX: Annular beam propagation experiment
[DE84-000456] 04 p0599 N84-13954
Autogenerator of beams of charged particles
[DE84-014242] 22 p3654 N84-33163
Experimental investigation of certain beam transport issues in a pulsed transmission line linear accelerator
[DE84-011191] 22 p3654 N84-33164
MAZAUDIER, C., M.
Calm ionospheric dynamo. Part 1: Simulations carried out in 1981
[CRPE-NT-112-PT-1] 13 p2012 N84-23055
MAZEY, E. J.
Literature review on occurence and methodology for determination of nickel, chromium, manganese and arsenic species in air
[PB84-172105] 16 p2463 N84-25788
MAZIASZ, P. J.
Improved swelling resistance for PCA austenitic stainless steel under HFIR irradiation through microstructural control
[DE84-003203] 08 p1133 N84-17370
MAZILU, P.
Variational principles in thermoplasticity. Part 1: Heat transfer and plasticity
[RUB-IFM-MITT-33-PT-1] 10 p1490 N84-19740
MAZIN, I. P.
Turbulent pulsations of horizontal and vertical wind velocity components in clouds of different genera 17 p2697 N84-27182
MAZING, G. Y.
Advantages of metallic fuels for rocket propulsion 21 p3348 N84-31237
MAZOUR, T. J.
Evaluation of U.S. Coast Guard forward-looking airborne radars
[AD-A142417] 20 p3174 N84-30156
MAZUMDAR, S.
Electron-electron interactions and broken symmetry in one dimension
[DE84-001704] 06 p0925 N84-16014
MAZUMDER, J.
Fluid flow in laser melted pool 15 p2306 N84-24837
Mathematical modelling of Laser/Material interactions
[AD-A141096] 19 p3029 N84-29206
MAZUR, J. H.
High-resolution electron-microscopy studies of native oxide on silicon
[DE83-014794] 01 p0155 N84-11018
High resolution TEM studies of defects near Si-SiO/sub 2 interface
[DE84-006562] 12 p1915 N84-22480
MAZUR, J. S.
A study of the cross flow fan 23 p3688 N84-33372
MAZUR, P. O.
Operational studies and expected performance of superconducting quadrupole magnets in the first stages of secondary beams
[DE83-016734] 03 p0456 N84-12999
High energy electromagnetic shower position measurement by a fine grained scintillation hodoscope 06 p0912 N84-15928
A measurement of the response of an SCG1-C scintillation glass shower detector to 2-17.5 GeV positrons 06 p0913 N84-15930
Measurement of the energy resolution and related properties of an SCG1-C scintillation glass shower counter array for 1 to 25 GeV positrons
[DE84-007246] 14 p2148 N84-23871
Measurement of electromagnetic shower position and size with a saturated avalanche tube hodoscope and a fine grained scintillation hodoscope
[DE84-007247] 15 p2337 N84-25032
MAZUR, V.
Correlated measurements of UHF radar signatures, RF radiation and electric field changes from lightning
[NASA-TM-84425] 16 p2481 N84-25907
MAZUREK, W.
Cyclic voltammetry of polysulfide (Thiokol) prepolymers and related compounds
[MRL-R-911] 08 p1136 N84-17387
MAZURKIEWICZ, M.
Investigation of inhomogeneity in ceramic reactor materials using laser-localized emission spectroscopy
[JUEL-1834] 03 p0357 N84-12323
MBUYI-MUAMBA, J. M.
Analysis of collagen and noncollagenous proteins in bone particles fractionated by gradient density fractionation 23 p3808 N84-34144
MCADOO, D. C.
SEASAT observations of lithospheric flexure 20 p3221 N84-30463
MCADOO, R. D.
Aircraft Spare Stockage Methodology (aircraft spares) study
[AD-A142259] 19 p2955 N84-28730
MCALEER, J. F.
Polymerization of 3-methyl-2,5-Dibromothiophene utilizing n-butyl lithium and Copper(II) chloride
[AD-A136955] 10 p1468 N84-19585
Spectroscopic determination of the ac voltammetric response
[AD-A137321] 18 p2833 N84-27983
MCALEESE, J. D.
Collapse of long stiffened circular cylinders under combined axial bending and pressure loading 23 p3759 N84-33825
MCALISTER, K. W.
Airfoil interaction with impinging vortex
[NASA-TP-2273] 09 p1250 N84-18159
Water-tunnel study of transition flow around circular cylinders
[NASA-TM-85879] 14 p2100 N84-23606
MCALLESTER, D.
Research in knowledge representation for natural language understanding
[AD-A134102] 05 p0726 N84-14765
MCALLESTER, D. A.
Symmetric set theory, a general theory of isomorphism, abstraction, and representation
[AD-A133630] 05 p0741 N84-14868
Solving uninterpreted equations with context free expression grammars
[AD-A133613] 07 p1085 N84-17055
MCALLISTER, J. D.
Direct lift command blending
[AD-D011178] 23 p3696 N84-33420
MCALLISTER, P. R.
Further delineation of the utilization of scientific literature by U.S. patents
[PB84-100734] 08 p1238 N84-18095
Further delineation of the utilization of scientific literature by U.S. patents. Appendices A: Distribution of references contained in patents to various sources
[PB84-100742] 08 p1239 N84-18096

Ten year trends in US technological dependence on foreign technology as indicated by referencing from US patents. Appendix
[PB84-196997] 22 p3669 N84-33255
Ten year trends in US technological dependence on foreign technology as indicated by referencing from US patents
[PB84-197003] 22 p3669 N84-33256

MCALLISTER, W. J.
An experimental hybrid model for a bilinear hysteretic system 10 p1514 N84-19910

MCANELLY, R. L.
Model cloud relationships
[AD-A142690] 21 p3447 N84-31871

MCANINCH, G. L.
The parabolic approximation for sound propagation in stratified moving media 06 p0907 N84-15893

MCANULTY, K. F.
An appraisal of straight bladed vertical and horizontal windmills
[PP-127] 18 p2676 N84-26264

MCARTHUR, D.
Strategies of cooperation in distributed problem solving
[AD-A136527] 09 p1371 N84-18955
Distributed problem solving for air fleet control: Framework and implementations
[AD-A143168] 21 p3327 N84-31108

MCBEAN, G. A.
Some comments on the atmospheric boundary layer over the ocean and its parameterization, appendix K 18 p2885 N84-28306

MCBEE, W.
Sperry low temperature geothermal conversion system, phase 1 and phase 2. Volume 6: Economic studies
[DE84-008039] 15 p2363 N84-25181

MCBRATNEY, W. F.
Catalysis of nitramine propellants by mmtal borohydrides
[AD-A133215] 06 p0812 N84-15285

MCBREEN, J.
Carbonaceous anode depolarizers for electrolytic hydrogen production
[DE83-013278] 01 p0053 N84-10343
Zinc electrode morphology in acid electrolytes
[DE84-007184] 14 p2124 N84-23728
Secondary alkaline batteries
[DE84-010963] 20 p3179 N84-30191
Rechargeable zinc batteries
[DE84-008947] 20 p3179 N84-30192
Effect of charging methods on battery electrodes
[DE84-010287] 20 p3179 N84-30196

MCBRIDE, D. U.
Shuttle TPS thermal performance and analysis methodology 01 p0025 N84-10160

MCBRIDE, J. B.
d-d Tokamak reactor assessment
[DE83-016127] 04 p0609 N84-14019

MCBRYAN, O.
The coupling of tracked and interior waves in a front tracking scheme
[AD-P002944] 14 p2197 N84-24184

MCCABE, E. F., JR.
Aerodynamic feasibility for airborne retrieval of a remotely piloted vehicle
[AD-A143695] 23 p3693 N84-33404

MCCABE, E. J.
Relevant and irrelevant legal structures: Distinguishing private sector from DOD contracting
[AD-P003241] 18 p2903 N84-28408

MCCABE, G. P.
Assessment of Fisher and logistic linear quadratic discrimation models
[ORNL/CSD-TM-200] 06 p0904 N84-15865

MCCABE, M. E.
Initial results from testing passive solar components in the NBS calorimeter 16 p2517 N84-26160

MCCABE, M. K.
2nd Joint Solar Dynamics Project data summary: Solar magnetic field, chromospheric and coronal observations near the time of the 11 June 1983 solar eclipse
[NASA-CR-173340] 09 p1417 N84-19272

MCCABE, P. J.
NASA scatterometer research data processing system: Requirements and design 23 p3781 N84-33979

MCCALL, D. L.
Weather data communication and utilization 03 p0313 N84-12045

MCCALL, D. M.
Evaluation of dissociated and steam-reformed methanol as automotive engine fuels
[NASA-CR-168242] 18 p2821 N84-27909

MCCALL, G. H.
Evidence for a hot electron flux limit in laser-produced plasma experiments
[DE84-001365] 04 p0540 N84-13555

MCCALL, S. L.
Fluctuations in optical bistability: Experiment with shot noise 14 p2232 N84-24392
Advances in GaAs bistable optical devices 14 p2233 N84-24394

MCCALLA, T., JR.
How to protect a wind turbine from lightning
[NASA-CR-168229] 01 p0102 N84-10661

MCCAMMON, D.
Limits on diffuse X-ray emission from M101
[NASA-CR-170978] 08 p1246 N84-18147
Thermal detectors as X-ray spectrometers
[NASA-TM-86092] 14 p2148 N84-23866
Limits on soft X-ray flux from distant emission regions
[NASA-CR-173591] 16 p2582 N84-26558

MCCANLIES, J. M.
Evaluation of dissociated and steam-reformed methanol as automotive engine fuels
[NASA-CR-168242] 18 p2821 N84-27909

MCCANN, B. E.
A timing and memory sizing study for wavenumber analyzer
[AD-A135581] 09 p1318 N84-18611

MCCANN, C. D.
Pairwise balanced latin squares should always be used for within-subjects designs
[AD-A137283] 10 p1569 N84-20282

MCCANN, P. H.
Methods for improving the user-computer interface
[AD-A132657] 05 p0719 N84-14713

MCCANN, T. M.
Increasing spares competition in AFLC (Air Force Logistics Center)
[AD-P002775] 13 p2054 N84-23322
Increasing competition for spares within AFLC (Air Force Logistics Command)
[AD-A140751] 17 p2770 N84-27588

MCCARGO, M.
Effects of combined ultraviolet and oxygen plasma environment on spacecraft thermal control materials 10 p1446 N84-19449

MCCARRON, R. L.
Long-term materials test program
[DE84-008899] 18 p2815 N84-27870

MCCARRON, W. E.
Leadership, managership, and computers in today's Air Force
[AD-P003351] 18 p2912 N84-28468

MCCARTAN, L.
Sedimentology of the Horlick Formation (Lower Devonians), Ohio Range, Transantarctic Mountains 14 p2162 N84-23948

MCCARTHY, D. D.
Predicting variations in Earth rotation 09 p1411 N84-19225

MCCARTHY, G. J.
Geological and geochemical controls on the chemical evolution of subsurface water in undisturbed and surface-mined landscapes in western North Dakota
[PB84-126952] 08 p1180 N84-17685

MCCARTHY, J.
XeF pumped Tm:YLF laser scaling
[AD-A140004] 15 p2339 N84-25041
Doppler weather radar applications to terminal and enroute air traffic control 18 p2887 N84-28324

MCCARTHY, J. L.
Compressibility of colloids. 2: Compressibility studies of tri-block non-ionic polymers in toluene and water solutions
[AD-A138738] 13 p1963 N84-22755
Proceedings of the 2nd International Workshop on Statistical Database Management
[DE84-005866] 15 p2418 N84-25522
Enhancements to the codata definition language
[DE84-010579] 20 p3274 N84-30783

MCCARTHY, J. P.
Atomic absorption spectrophotometric methods for the determination of phosphorous and silicon in steel
[DE84-002826] 09 p1286 N84-18395

MCCARTHY, R.
Stirling engine applications study
[PB84-148055] 12 p1823 N84-21888

MCCARTY, F. B.
Process for making a fluid-cooled electrical conductor
[AD-D011150] 23 p3735 N84-33666

MCCARTY, J. E.
Advanced composite elevator for Boeing 727 aircraft. Volume 1: Technical summary
[NASA-CR-3290] 16 p2792 N84-27722

MCCARTY, K. P.
A summary of the mechanisms of delayed detonation 13 p1947 N84-22658

MCCARTY, R. D.
Liquified natural gas densities: Summary of research program at the National Bureau of Standards
[PB84-202647] 22 p3675 N84-33297

MCCARTY, R. E.
Validation of the MAGNA (Materially and Geometrically Nonlinear Analysis) computer program for nonlinear finite element analysis of aircraft transparency bird impact
[AD-P003229] 17 p2596 N84-26642
MAGNA (Materially and Geometrically Nonlinear Analysis) computer simulation of bird impact on the F-15 aircraft canopy
[AD-P003230] 17 p2597 N84-26643
Simulation of T-38 aircraft student canopy response to cockpit pressure and thermal loads using MAGNA (Materially and Geometrically Nonlinear Analysis)
[AD-P003231] 17 p2597 N84-26644

MCCARVILLE, T. J.
Gas filled dynamics for laser driven fusion reactors
[DE84-005181] 12 p1910 N84-22444

MCCASKILL, G. T.
Logistic support: A computer manufacturer's viewpoint
[AD-P003496] 21 p3514 N84-32262

MCCASKILL, T. B.
Frequency stability analysis of GPS (Global Positioning System) NAVSTARs 3 and 4 rubidium clocks and the NAVSTARs 5 and 6 cesium clocks
[AD-A137376] 10 p1425 N84-19318

MCCAULEY, E. V.
DTIC 2000: A corporate plan for the future
[AD-A143900] 23 p3835 N84-34327

MCCAULEY, J. F.
Substance geology of the western desert in Egypt and Sudan revealed by Shuttle Imaging Radar (SIR-A) 07 p0967 N84-16392
Multiprocess evolution of landforms in the Kharga Region, Egypt: Applications to Mars 13 p2086 N84-23511

MCCAULEY, M. E.
Computer based landing signal officer carrier aircraft recovery model
[AD-A133507] 06 p0894 N84-15808
Development of speech input/output interfaces for tactical aircraft
[AD-A136485] 09 p1255 N84-18193

MCCAULEY, R. A.
The role of water in slip casting
[NASA-TM-77578] 14 p2134 N84-23786

MCCHRYSTAL, D. L.
The new MIL-STDs (Military standard) 1388
[AD-P002806] 13 p2059 N84-23352

MCCLAIN, A. A.
Design of advanced technology maneuvering aircraft models for the National Transonic Facility 14 p2098 N84-23590
Design study of test models of maneuvering aircraft configurations for the National Transonic Facility (NTF)
[NASA-CR-3627] 23 p3696 N84-33422

MCCLAIN, C. R.
Methodology for interpretation of SST retrievals using the AVHRR split window algorithm
[NASA-TM-85100] 24 p3934 N84-34905

MCCLAIN, E. P.
NOAA satellite-derived operational sea surface temperature products 12 p1835 N84-21965
Recent advances in multispectral sensing of ocean surface temperature from space 17 p2717 N84-27297

MCCLAIN, F. W.
Nonlinear theory of lower hybrid current drive II
[DE84-007292] 15 p2410 N84-25469

MCCLAIN, L. D.
Water level measurement network computer file
[DE84-005388] 11 p1672 N84-20909

MCCLAMROCH, H.
ACOSS eleven (Active Control Of Space Structures), volume 1
[AD-A135675] 09 p1273 N84-18311
ACOSS eleven (Active Control Of Space Structures), volume 1
[AD-A140025] 15 p2282 N84-24703
ACOSS eleven (Active Control Of Space Structures), volume 2
[AD-A140026] 15 p2282 N84-24704

MCCLELLAN, R. O.
Vehicle-emission characteristics using mechanically emulsified alcohol/diesel fuels
[DE83-016012] 03 p0406 N84-12656

MCCLELLAN, V. A.
CDTI target selection criteria
[NASA-CR-3776] 08 p1104 N84-17178

MCCLELLAND, E. L.
Performance of alkaline battery cells used in emergency locator transmitters
[NASA-TP-2277] 11 p1646 N84-20759

MCCLELLAND, R. W.
Electronic properties of grain boundaries in GaAs: A study of oriented bicrystals prepared by epitaxial lateral overgrowth
[AD-A144358] 24 p3967 N84-35118
MCCLENON, P. R.
A strategy for improving overhead cost control
[AD-A134661] 08 p1238 N84-18092
MCCLURE, D. E.
Nonparametric estimation by the method of sieves
[AD-A131394] 02 p0264 N84-11863
Aspects of pattern theory
[AD-A136506] 09 p1361 N84-19022
MCCLUSKEY, G. E.
Optically-thick, highly-variable plasma in interacting binaries 24 p3980 N84-35211
MCCLYMONDS, J. W.
A 20-GHz IMPATT diode development
[S-3057] 02 p0212 N84-11387
MCCOLL, W. D.
Remote sensing using the airborne MEIS 2 multidetector electro optical imaging scanner
03 p0397 N84-12592
MCCOLLUM, D. M.
Evaluation of instrument landing system DDM (Difference in Depth of Modulation) calibration accuracies
[AD-A138301] 12 p1768 N84-21533
MCCOMAS, D. J.
The ISPM solar-wind plasma experiment
09 p1261 N84-18231
MCCOMBS, B. L.
Individualizing with Computer-Assisted Instruction (CAI): Enhancing student motivation through computer-controlled audio
[AD-P003314] 18 p2909 N84-28453
MCCONAGHY, C. F.
Modeling and testing for second breakdown phenomena
[DE84-002470] 07 p0994 N84-16444
MCCONKEY, E. D.
CONUS Loran-C error budget: Flight test
[AD-A139871] 15 p2259 N84-24568
CONUS (Continental United States) Omega/VLF data collection: Flight test
[AD-A140252] 16 p2446 N84-25688
MCCONNAUGHEY, H. V.
Droplet decomposition in a reactive atmosphere: Complete responses for large activation energies
[AD-A132840] 05 p0650 N84-14273
Wrinkled-flame calculations revisited
[AD-P002973] 14 p2201 N84-24209
Two-step sequential reactions for large activation energies-revisited
[AD-A141750] 19 p2988 N84-28934
MCCONNELL, D.
The US space station: Potential base for a spaceborne microwave facility 07 p0991 N84-16420
MCCONNELL, J. B.
Navstar GPS applications to test and training
24 p3850 N84-34418
MCCONNELL, J. G.
Subsonic longitudinal performance coefficient extraction from shuttle flight data: An accuracy assessment for determination of data base updates
01 p0026 N84-10163
STS-8 bet results
[NASA-CR-172257] 02 p0184 N84-11197
STS-9 BET products
[NASA-CR-172314] 11 p1622 N84-20616
Final STS-11 (41-B) best estimate trajectory products: Development and results from the first Cape landing
[NASA-CR-172349] 18 p2802 N84-27786
STS-13 (41-C) BET products
[NASA-CR-172350] 20 p3134 N84-29901
MCCONNELL, R.
Analysis of electrical accident prevention countermeasures
[PB84-102987] 08 p1207 N84-17869
MCCOOL, H. I.
Mechanical interactions of rough surfaces
[DE84-014097] 22 p3605 N84-32841
MCCOOL, J. I.
Lubrication of engineering surfaces, phase 2
[DE84-005685] 11 p1665 N84-20863
Lubrication of engineering surfaces, phase 2
[DE84-006344] 12 p1822 N84-21878
Mechanical interactions of rough surfaces
[DE84-006589] 20 p3198 N84-30311
MCCORD, C. K.
Uniqueness of connecting orbits in the equation y(3) = y2 - 1
[AD-A139261] 14 p2213 N84-24289
MCCORD, M.
HP-65/Mini-Ranger navigation system
[AD-A142131] 19 p2961 N84-28770
MCCORD, R. L.
Population control of self-replicating systems: Option C 06 p0930 N84-16044
MCCORD, T. B.
Surface compositions in the Aristarchus Region: Implications for regional stratigraphy
13 p2087 N84-23519
MCCORMACK, R.
The effect of fluids on waveguides below cutoff penetrations as related to electromagnetic shielding effectiveness
[AD-A144685] 24 p3896 N84-34670
MCCORMICK, C. L.
Improved polymers for enhanced-oil-recovery synthesis and rheology
[DE83-017371] 04 p0507 N84-13324
MCCORMICK, D.
Low-Altitude Database Development Evaluation and Research (LADDER)
[AD-P003468] 21 p3511 N84-32243
MCCORMICK, D. L.
Evaluation of the variable reluctance transducer/carrier amplifier method of measuring low pneumatic pressures in aerodynamic and propulsion testing
[AD-A130695] 01 p0084 N84-10546
MCCORMICK, J. B.
Development of thermionic integrated circuits for applications in hostile environments
[DE84-011374] 21 p3393 N84-31533
MCCORMICK, S.
Conduct of the International Multigrid Conference
[NASA-CR-173823] 19 p3090 N84-29618
MCCORMICK, T. J.
Optimization of electromagnetic propulsion systems
20 p3139 N84-29929
MCCORMICK, W. P.
Weak and strong law results for a function of the spacings
[AD-A130705] 03 p0425 N84-12782
An iterated logarithm law result for extreme values from Gaussian sequences
[AD-A129559] 03 p0427 N84-12798
MCCORMICK, W. S.
A general measurement design philosophy for the Kalman filter estimation with special application given to the imaging radar autofocus update
[AD-A133895] 05 p0734 N84-14819
MCCOWAN, D. W.
Development of an advanced ocean-bottom sensor system
[AD-A135901] 09 p1345 N84-18788
MCCOWAN, W. L.
Expressions for the exact state transition matrix of a nine-state target model
[AD-A132652] 05 p0735 N84-14830
Disturbance minimization techniques for linear, time-invariant dynamical systems
[AD-A138915] 13 p2033 N84-23185
Multisensor calibration procedure for an all weather short range air defense system concept
[AD-A141337] 18 p2791 N84-27715
MCCOY, D. G.
Flash X-ray with image enhancement applied to combustion events 13 p1948 N84-22666
MCCOY, G. A.
Cost effectiveness of converting to alternative motor vehicle fuels. A technical assistance study for the city of Longview
[DE84-010479] 21 p3375 N84-31415
MCCOY, H. E.
Creep and tensile properties of alloy 800H-Hastelloy X weldments
[DE83-017067] 03 p0390 N84-12542
MCCOY, J. E.
Sheath shapes: A 3-D generalization of the Child-Langmuir sheath model for large high-voltage space structures in dense plasmas
[AD-P002124] 16 p2525 N84-26210
MCCOY, J. J.
Transverse horizontal coherence and low-frequency array gain limits in the deep ocean
[AD-A131916] 03 p0430 N84-12821
MCCOY, J. K.
Hot isostatic pressing of ceramic powder compacts
[AD-A131514] 01 p0050 N84-10324
Hot isostatic pressing of ceramic powder compacts
[AD-A144123] 24 p3888 N84-34621
MCCOY, L. G.
Hot isostatic pressing of ceramic powder compacts
[AD-A131514] 01 p0050 N84-10324
MCCOY, L. R.
Production of hydrogen from renewable resources
[DE84-000082] 14 p2132 N84-23780
MCCOY, M. W.
Advanced cleaning by mass finishing
[DE84-004850] 10 p1472 N84-19612
MCCOY, R. P.
An extreme ultraviolet spectrometer experiment for the Shuttle Get Away Special Program
18 p2801 N84-27778
MCCRACKEN, M. L.
ADA1: An ADA subset compiler for the AFIT syntax directed programming environment
[AD-A138027] 12 p1880 N84-22251
MCCRARY, V.
Coaxial measurement of the translational distribution of CS produced in the laser photolysis of CS2 at 193nm
[AD-A134613] 07 p0970 N84-16286
MCCRAY, R.
Spectral variability in early-type binary X-ray systems
[NASA-TM-86060] 09 p1407 N84-19195
MCCLEARY, J.
Correlation between plasma fibronectin level and mortality following experimental rate heat stress
[AD-A143383] 22 p3628 N84-32991
MCCREARY, T.
Study of a tracking and data acquisition system for the 1990's. Volume 1: User community characteristics
[NASA-CR-175194] 10 p1433 N84-19370
Study of a tracking and data acquisition system for the 1990's. Volume 3: TDAS Communication Mission Model
[NASA-CR-175195] 10 p1434 N84-19371
MCCREIGHT, C. R.
Low-temperature heat pipe experiment package (HEPP) for LDEF (S1001) 15 p2274 N84-24652
MCCREIGHT, K.
The detection of nonplanar surfaces in visual space
[AD-A138761] 14 p2185 N84-24093
MCCRORY, R. L.
Boundary-integral simulations of rayleigh-taylor instability in ideal magnetohydrodynamics
[AD-A131667] 03 p0444 N84-12920
Inertial fusion research at the University of Rochester: Progress in direct drive
[DE84-003691] 10 p1501 N84-19607
MCCROSKEY, W. J.
Airloads on bluff bodies, with application to the rotor-induced downloads on tilt-rotor aircraft
[NASA-TM-84401] 02 p0174 N84-11142
Special opportunities in helicopter aerodynamics
[NASA-TM-84396] 07 p0946 N84-16138
MCCULLOUGH, R. E.
Increased metabolism and dead space as components of ventilation at high altitude
[AD-A130827] 06 p0887 N84-15766
Variable inhibition by falling CO2 of hypoxic ventilatory response in man
[AD-A130658] 06 p0887 N84-15768
MCCULLOUGH, R. W.
Exhaust plume induced fluctuations in the index of refraction at optical wavelengths
13 p1941 N84-22624
Aircraft exhaust plume signature predictions for non-axisymmetric multiple engine installations
13 p1942 N84-22627
MCCUNE, B. P.
An informal study of program comprehension
[AD-A142224] 19 p3079 N84-29534
MCCUNE, J. E.
Plasma dynamics 22 p3683 N84-33354
MCCURDY, A. C.
Accurate computation of divided differences of the exponential function
[AD-A130306] 01 p0132 N84-10865
MCCURDY, D. A.
Annoyance caused by propeller airplane flyover noise
[NASA-TP-2356] 21 p3491 N84-32124
MCDANIEL, J.
User's guide for COMBIMAN programs (Computerized Biomechanical Man-Model), version 6
[AD-A139139] 14 p2184 N84-24086
A study of the interaction of millimeter wave fields with biological systems
[AD-A144150] 24 p3935 N84-34910
MCDANIEL, J. C., JR.
Flowfield measurements in a model scramjet combustion using laser-induced iodine fluorescence
[NASA-CR-175399] 10 p1419 N84-19283
MCDANIEL, J. W.
Human strength capabilities for the operation of parachute ripcords and riser releases
[AD-A138328] 12 p1868 N84-22174
MCDANIEL, S. G.
An evaluation of a Honda Electro Gyro-Cator land navigation system
[AD-A138283] 12 p1768 N84-21532
A field evaluation of the Bendix Gyrocompass Navigation System land navigator
[AD-A140368] 16 p2446 N84-25689

MCDANIELS, D. L.
Analysis of stress-strain, fracture and ductility behavior of aluminum matrix composites containing discontinuous silicon carbide reinforcement
[NASA-TM-83610] 12 p1789 N84-21666
Microstructure and orientation effects on properties of discontinuous silicon carbide/aluminum composites
[NASA-TP-2302] 17 p2617 N84-26749
MCDANNELL, R. M.
Exploring the interaction of the Vroom/Yetton model and leadership style (LPC) (Least Preferred Coworker) as it predicts performance
[AD-P003247] 18 p2904 N84-28414
MCDERMOTT, J. K.
In flight performance of a six ampere-hour nickel-cadmium battery in low Earth orbit
23 p3738 N84-33690
MCDERMOTT, P. P.
Prediction of battery life and behavior from analysis of voltage data 23 p3737 N84-33685
MCDERMOTT, S. M.
Development of an AFIT (Air Force Institute of Technology) ADP system network model
[AD-A141253] 18 p2917 N84-28496
MCDEVITT, N. T.
The study of thin films on semi-insulating gallium arsenide by ellipsometry
[AD-A131844] 03 p0452 N84-12972
MCDONALD, B.
Signal-processing capabilities of a computerized ultrasonic scanning bridge
[DE83-013708] 01 p0085 N84-10553
MCDONALD, B. E.
A second order upwind flux method for hyperbolic conservation laws
[AD-A139769] 15 p2332 N84-25008
MCDONALD, F. B.
Interplanetary flow systems associated with cosmic ray modulation in 1977 - 1980
[NASA-TM-85120] 08 p1246 N84-18149
MCDONALD, F. E.
Design, construction and test of a 0.61-meter-diameter, epoxy impregnated superconductive magnet
[AD-A135339] 08 p1226 N84-18009
MCDONALD, G.
Some inelastic effects of thermal cycling on yttria-stabilized zirconia
[NASA-TM-83488] 07 p1001 N84-16492
MCDONALD, G. C.
On using selection procedures with binomial models
[AD-A135275] 08 p1219 N84-17957
MCDONALD, H.
Further development of a method for computing three-dimensional subsonic viscous flows in turbofan lobe mixers
[NASA-CR-168304] 05 p0679 N84-14462
Computation of discrete slanted hole film cooling flow using the Navier-Stokes equations
[AD-A137022] 10 p1493 N84-19763
Solution of 3-dimensional time-dependent viscous flows. Part 2: Development of the computer code
[NASA-CR-166565-PT-2] 17 p2666 N84-27002
Solution of 3-dimensional time-dependent viscous flows. Part 3: Application to turbulent and unsteady flows
[NASA-CR-166565-PT-3] 17 p2667 N84-27003
Solution of 3-dimensional time-dependent viscous flows. Part 1: Investigation of candidate algorithms
[NASA-CR-166565-PT-1] 17 p2757 N84-27503
Investigation of the mechanism of transonic shock wave/boundary layer interactions using a Navier-Stokes analysis
[AD-A141551] 19 p2959 N84-28752
Development of a design-oriented Navier-Stokes cascade analysis
[AD-A144594] 24 p3901 N84-34703
MCDONALD, H. O.
Chemical vapor deposition of group IVB, VB, and VIB elements with nonmetals. A literature review
[PB83-225409] 06 p0802 N84-15228
MCDONALD, J. A.
Characterization of reactants, reaction mechanisms and reaction products leading to extreme acid rain and acid aerosol conditions in southern California
[PB83-252825] 04 p0561 N84-13697
MCDONALD, J. F.
Employment of adaptive learning techniques for the discrimination of acoustic emissions
[AD-A136142] 12 p1899 N84-22366
MCDONALD, J. K.
Laser-induced decomposition of some allyl halides
[AD-A140426] 16 p2463 N84-25786
CO2 laser decomposition of the alkyl phosphites
21 p3373 N84-31402
MCDONALD, J. R.
Mathematical model of electrostatic precipitation for the Texas Instruments Programmable 59 calculator
[PB83-261669] 04 p0560 N84-13695
MCDONALD, M. W.
A FMCW radar ranging device for the teleoperator maneuvering system 06 p0930 N84-16045
MCDONALD, R. H.
Chemistry of energetic fragments: Hypovalent radicals
[AD-A143269] 22 p3547 N84-32453
MCDONALD, S. W.
Wave dynamics of regular and chaotic rays
[DE84-006061] 12 p1911 N84-22452
MCDONNELL, J. A. M.
The ISPM dust experiment 09 p1262 N84-18239
Multiple-foil microabrasion package (A0023)
15 p2276 N84-24666
MCDOUGAL, A. R.
Solar energy modulator
[NASA-CASE-NPO-15388-1] 18 p2867 N84-28203
MCDUFF, G.
Evaluation of bidirectionally conducting thyratrons for pulsed excimer lasers
[DE84-013890] 22 p3602 N84-32818
MCDUFFEE, F. T.
Breakout cables for short haul fiber optic systems
11 p1728 N84-21270
MCELIECE, B.
Spread spectrum communication in jamming
13 p1976 N84-22627
MCELIECE, R. J.
An easy-to-implement coding scheme for multifrequency PPM 16 p2479 N84-25896
MCELROY, D. L.
Apparent thermal conductivity measurements by an unguarded technique
[DE84-001964] 05 p0685 N84-14503
Development of advanced thermal insulation for appliances
[DE84-013132] 22 p3594 N84-32763
MCELROY, M.
Global Change: A Biogeochemical Perspective
[NASA-CR-173210] 07 p1027 N84-16656
MCELWAIN, C. K.
Protocol software for a packet voice terminal
[AD-A136938] 10 p1481 N84-19678
MCENTIRE, R. W.
The Active Magnetospheric Particle Tracer Explorers (AMPTE) program 05 p0641 N84-14216
MCEVILLY, T. V.
Seismological studies at the Cerro Prieto field, 1978 - 1982
[DE83-013644] 02 p0250 N84-11633
Effective use of earthquake data
[AD-A134077] 06 p0878 N84-15712
MCEVILY, A. J.
The fatigue of powder metallurgy alloys
[AD-A138714] 13 p1960 N84-22738
MCEWAN, S. D.
Research in the design of high-performance reconfigurable systems
[NASA-CR-173998] 24 p3942 N84-34957
MCEWEN, A. S.
High-resolution color images of Io
13 p2075 N84-23446
Multi-image photometric solutions for the Galilean satellites 13 p2087 N84-23522
MCEWEN, R. S.
Infrared optics: Holographic and surface relief devices
[BAE-BT-11393] 13 p2042 N84-23249
MCFADDEN, B. L.
Super integrated power unit for fighter aircraft
03 p0335 N84-12183
MCFADDEN, G. B.
Microsegregation during directional solidification
24 p3882 N84-34597
MCFADDEN, J.
Matrix approach to testing mirrors, part 2
[DE83-011996] 04 p0558 N84-13676
MCFADDEN, J. J.
Baseline performance and emissions data for a single-cylinder, direct-injected diesel engine
[NASA-TM-86873] 23 p3836 N84-34330
MCFADDEN, L. A. A.
Spectral reflectance of near-earth asteroids: Implications for composition, origin and evolution
05 p0762 N84-15000
MCFARLAN, A. I.
Late developments in the field of heat recovery
11 p1840 N84-20727
MCFARLAND, A. L.
A concept for reducing oceanic separation minima through the use of a TCAS-derived CDTI
[NASA-CR-172258] 07 p0952 N84-16177
MCFARLAND, E. R.
Design and performance of a fixed, nonaccelerating, guide vane cascade that operates over an inlet flow angle range of 60 deg
[NASA-TM-83519] 05 p0626 N84-14120
MCFARLAND, M. J.
Development of visible/infrared/microwave agriculture classification and biomass estimation algorithms, volume 2
[E84-10059] 06 p0864 N84-15629
Crop moisture estimation over the southern Great Plains with dual polarization 1.66 centimeter passive microwave data from Nimbus 7
[E84-10163] 17 p2710 N84-27255
MCFARLAND, R. D.
Cooling-load implications for residential passive solar heating systems 16 p2513 N84-26126
MCFARLAND, R. H.
Investigation of air transportation technology at Ohio University, 1982 02 p0167 N84-11100
Weather data communication and utilization
03 p0313 N84-12045
Engineering and technical services to improve reliability and maintainability of instrument landing system components
[DOT/FAA/PM-84/7] 11 p1604 N84-20503
Instrument landing system critical area studies
[AD-A138228] 12 p1768 N84-21530
MCFARLANE, R. A.
Phase conjugate optical resonator
[AD-A136071] 09 p1390 N84-19077
MCGAHAN, R. V.
Scattering experiments at the Ipswich electromagnetic measurements facility: Calibration with perfectly conducting spheres
[AD-A138028] 12 p1806 N84-21772
MCGARRY, F.
An approach to software cost estimation
[NASA-TM-85807] 13 p2026 N84-23136
Managers handbook for software development
[NASA-TM-85604] 13 p2028 N84-23150
MCGARRY, F. J.
Plane strain fracture toughness of polyethylene pipe materials
[MIT-RR-R82-2] 06 p0857 N84-15586
MCGARY, C.
CDC to CRAY FORTRAN conversion manual
[NASA-CR-166574] 12 p1879 N84-22243
MCGARY, M. C.
Studies of noise transmission in advanced composite material structures 20 p3146 N84-29977
MCGAUVRAN, T.
A new application of proximity probe measurement on rolling element bearings
[AD-P002679] 11 p1658 N84-20816
MCGAW, M. A.
Preliminary study of thermomechanical fatigue of polycrystalline MAR-M 200
[NASA-TP-2280] 08 p1130 N84-17350
MCGEE, R. H.
Sandia National Laboratories administrative data processing systems
[DE84-014328] 23 p3817 N84-34202
MCGEER, T.
Wing design for minimum drag with practical constraints 21 p3327 N84-31109
MCGEHEE, J. R.
Experimental and analytical investigation of active loads control for aircraft landing gear
10 p1510 N84-19686
Validation of an Active Gear, Flexible Aircraft Take-off and Landing analysis (AGFATL)
[NASA-TP-2353] 22 p3534 N84-32378
MCGEOCH, M. W.
Experimental study of dissociative attachment in optically-pumped lithium molecules
[AD-A131601] 02 p0289 N84-11894
MCGHEE, D. S.
The ASTRO-1 preliminary design review coupled load analysis
[NASA-TM-82587] 19 p3034 N84-29246
MCGHEE, L. A.
Fuel conservative guidance concept for shipboard landing of powered-lift aircraft
[NASA-TM-85971] 21 p3344 N84-31215
MCGHEE, R. B.
An experimental study of an ultra-mobile vehicle for off-road transportation
[AD-A131449] 02 p0303 N84-11991
An experimental study of an ultra-mobile vehicle for off-road transportation
[AD-A141323] 18 p2849 N84-28091
MCGHEE, R. J.
Recent modifications and calibration of the Langley low-turbulence pressure tunnel
[NASA-TP-2328] 18 p2785 N84-27675

MCGHIE, A. R.
Proton transport in beta alumina
11 p1739 N84-21345
Proton transport in beta alumina
11 p1743 N84-21371
MCGILL, G. E.
Venus topography: Clue to hot-lithosphere tectonics?
11 p1679 N84-20958
New maps of Lakshmi Planum and eastern Aphrodite, Venus
13 p2077 N84-23457
MCGILL, T. C.
Superlattices and semiconductor/semiconductor interfaces
[AD-A138149] 12 p1913 N84-22465
MCGILLEM, C. D.
New techniques for measuring single event related brain potentials
[AD-A138694] 13 p2021 N84-23107
LANDSAT-4 MSS and TM spectral class comparison and coherent noise analysis
20 p3208 N84-30381
Spatial resolution estimation of LANDSAT-4 TM data
20 p3210 N84-30394
LANDSAT-4 MSS and Thematic Mapper data quality and information content analysis
23 p3766 N84-33871
MCGINLEY, K. M.
High-voltage (270 V) dc power-generating system for fighter aircraft
01 p0010 N84-10057
MCGLADE, M. J.
Versatility of laser induced fluorescence line narrowing in chemical analysis
[DE84-012834] 21 p3360 N84-31316
MCGLAMERY, B. L.
Passive remote sensing of ocean optical propagation parameters
06 p0872 N84-15673
MCGLYNN, S. P.
physico-chemical investigation of some areas of fundamental significance to biophysics
[DE83-017404] 07 p1043 N84-16761
MCGOLDRICK, L.
Satellite data relay and platform locating in oceanography. Report of the In Situ Ocean Science Working Group
[NASA-TM-85443] 12 p1860 N84-22116
Oceanic transport
20 p3218 N84-30444
MCGOLDRICK, L. F.
Remote sensing for oceanography: Past, present, future
17 p2711 N84-27263
A new parameterization of an empirical model for wind/ocean scatterometry
17 p2712 N84-27269
MCGONIGAL, M.
Chemical reaction dynamics at surfaces
22 p3681 N84-33340
MCGOUGH, J. G.
Feasibility study for a generalized gate logic software simulator
[NASA-CR-172159] 01 p0118 N84-10765
MCGOVERN, W. M.
Economic production rate study
[AD-P002793] 13 p2057 N84-23340
MCGOWAN, J. R.
A microcomputer program package of the USAF stability and control DATCOM
[AD-A132143] 04 p0487 N84-13199
MCGOWAN, T. D.
Technology information system: Transcript of typical demonstration
[DE84-009082] 15 p2418 N84-25523
MCGRAW, J.
SISAL: Streams and Iteration in a Single-Assignment Language. Language reference manual, version 1.1
[DE83-016576] 04 p0582 N84-13843
MCGRAW, J. T.
Innovative research in the design and operation of large telescopes for space: Aspects of giant telescopes in space
17 p2765 N84-27560
MCGREGOR, B. A.
Environmental geologic studies on the United States mid- and north Atlantic outer continental shelf area, 1980-1982. Volume 1: Executive summary
[PB84-187939] 20 p3252 N84-30639
Environmental geologic studies on the United States mid- and north Atlantic outer continental shelf area, 1980-1982. Volume 2: Mid-Atlantic region
[PB84-187947] 20 p3252 N84-30640
Environmental geologic studies on the United States mid-and north Atlantic outer continential shelf area, 1980-1982. Volume 3: North Atlantic region
[PB84-187954] 20 p3252 N84-30641
MCGREGOR, W. K.
Inertial Upper Stage (IUS) Solid Rocket Motor (SRM) core flow sampling at high altitudes
[AD-A134997] 08 p1121 N84-17288
MCGROGAN, S. K.
TIS: An intelligent gateway computer for information and modeling networks. Overview
[DE83-017986] 04 p0616 N84-14067
VLSI circuit simulation using a vector computer
10 p1559 N84-20215
MCGUIGAN, D. L.
Detailed introduction and reference manual for: The network-shared-memory distributed database system
[DE83-017547] 04 p0585 N84-13865
Nova laser alignment control system
[DE84-010992] 20 p3194 N84-30288
MCGUIGAN, S.
A model of the performance characteristics of silicon-gallium infrared detectors for low background applications
[AD-A143932] 23 p3825 N84-34256
MCGUIRE, A. G.
Determination of boundary layer transition and separation on double circular arc compressor blades in a large subsonic cascade
[AD-A137550] 11 p1652 N84-20786
MCGUIRE, E. J.
Using inner-shell X-rays as an ion-beam diagnostic
[DE83-017784] 03 p0436 N84-12857
Beam-target interaction of intense ion beams: Theory and experiment
[DE83-018264] 03 p0436 N84-12858
Current status of calculations and measurements of ion stopping power in ICF plasmas
[DE84-005880] 21 p3501 N84-32187
MCGUIRE, J. W.
Single circuit board implementation of a Digitally Compensated SAW Oscillator (DCSO)
[AD-A138313] 12 p1812 N84-21812
MCGUIRE, P. D.
High Reynolds number tests of the cast 10-2/DOA 2 airfoil in the Langley 0.3-meter transonic cryogenic tunnel, phase 2
[NASA-TM-86273] 23 p3689 N84-33382
MCGUIRE, R. L.
Multichannel detection systems available for flow diagnostics at AEDC
[AD-A132302] 16 p2452 N84-25722
MCGUIRK, J. P.
Application of satellite data to tropic/subtropic moisture coupling
24 p3926 N84-34849
MCGURRAN, B.
Some effects of anisotropic roughening on the wetting of metal surfaces
[AERE-R-10976] 01 p0047 N84-10305
A study of aluminium brazes using hot stage scanning electron microscopy
[AERE-R-11063] 18 p2850 N84-28097
MCHALE, A.
Investigation of the RF properties of carbon fibre composite materials
[AD-A140261] 16 p2461 N84-25774
MCHARG, B. B., JR.
Hardware and software configuration of the Doublet 3 diagnostic-data-acquisition computer system
[DE83-013427] 03 p0418 N84-12733
Real-time diagnostic-data-acquisition system for the Doublet 3 Tokamak fusion experiment
[DE83-015871] 03 p0445 N84-12927
MCHARGUE, C. J.
Structure-property relationships in ion-implanted ceramics
[DE83-015505] 02 p0202 N84-11313
Ion beam modification of ceramics
[DE84-003302] 08 p1138 N84-17403
Ion implantation, ion beam mixing and annealing studies of metals in Al2O3, SiC and Si3N4
[DE84-012336] 20 p3157 N84-30052
MCHARQUE, C. J.
Microstructure and properties of TiB2 implanted with 1-MeV nickel
[DE83-014020] 01 p0154 N84-11012
MCHONE, J.
Pinacate-Gran Desierto Region, Mexico: SIR-A data analysis
13 p2088 N84-23526
MCHUGH, E. A.
Preparation and properties of polyurethane and polyurethaneurea elastomers from methylene bis(4-cyclohexylisocyanate)
[AD-A137645] 11 p1637 N84-20704
MCHUGH, J. P.
Large-area sheet task advanced dendritic web growth development
[NASA-CR-173958] 23 p3787 N84-34019
MCHUGH, W. P.
Substance geology of the western desert in Egypt and Sudan revealed by Shuttle Imaging Radar (SIR-A)
07 p0987 N84-16392
MCILWAIN, J. F.
Generation, collection, and analysis of welding fumes
[PB84-116607] 09 p1326 N84-18663
MCILWAIN, M. E.
Development of holographic interferometry for welding arc analysis
[DE84-005454] 13 p1994 N84-22940
MCINERNEY, M. K.
The effect of fluids on waveguides below cutoff penetrations as related to electromagnetic shielding effectiveness
[AD-A144685] 24 p3896 N84-34670
MCINGVALE, P. H.
A preliminary investigation on the application of robotics to missile fire control
[AD-A140369] 16 p2456 N84-25751
MCINTIRE, D.
A case for olivine on Mars
13 p2087 N84-23520
MCINTIRE, H. D.
Optical support Hartmann sensor optical simulation
[AD-A142525] 20 p3300 N84-30955
MCINTOSH, A. C.
A review of theories currently being used to model steady plane flames on flame-holders
[CA-8316] 06 p0800 N84-15218
Second order theory of unsteady burned-anchored flames with arbitrary Lewis number
[CA-8313] 06 p0801 N84-15219
MCINTOSH, G. E.
Magnetic suspension and balance system study
[NASA-CR-3802] 20 p3132 N84-29888
MCINTOSH, J.
The control of float zone interfaces by the use of selected boundary conditions
[NASA-CR-170959] 07 p1079 N84-17017
MCINTOSH, R., JR.
Low-temperature heat pipe experiment package (HEPP) for LDEF (S1001)
15 p2274 N84-24652
MCINTURFF, A.
Electrical and magnetic properties of the energy-saver correction elements
[DE83-017327] 04 p0603 N84-13983
MCINTYRE, R. G.
Propulsion in a life-saving role for ACES 2
20 p3141 N84-29942
MCISAAC, J. P.
A new satellite instrument for yaw and pitch measurements
[AD-A138729] 13 p1937 N84-22599
MCIVER, D. E.
NASA control research overview
11 p1615 N84-20568
MCK.LUCK, J.
First results of GPS time transfer to Australia
10 p1475 N84-19635
MCKANNAN, E. C.
Potential means of support for materials processing in space. A history of government support for new technology
[NASA-TM-82554] 04 p0488 N84-13205
MCKAY, D. S.
Toward a complete inventory of stratospheric dust particles with implications and their classification
11 p1756 N84-21464
The chemistry of micrometeoroids (A0187-1)
15 p2276 N84-24669
MCKAY, K.
The flight test of an automatic spin prevention system
24 p3847 N84-34398
MCKAY, M. D.
Monte Carlo estimation under different distributions using the same simulation
[DE84-012438] 22 p3649 N84-33136
MCKAY, S. R.
Phase transitions in chemisorbed systems
22 p3682 N84-33342
MCKEAGUE, I. W.
Estimation for infinite dimensional Ornstein-Uhlenbeck processes
[AD-A135372] 08 p1220 N84-17961
MCKEAN, J. W.
On the robust rank analysis of linear models with nonsymetric error distributions
[AD-A135792] 09 p1377 N84-18994
MCKEE, J. H.
The GPRIME approach to finite element modeling
06 p0859 N84-15594
MCKEE, M. L.
A study of the CH2NO2 radical using a multiconfigurational self-consistent field approach
[AD-A133815] 05 p0648 N84-14262
MCKEE, S. P.
The mechanism of human velocity discrimination
[AD-A144527] 24 p3936 N84-34918

MCKEE, T. B.
Design and verification of a cloud field optical simulator
[NASA-CR-173274] 07 p1035 N84-16717
A laboratory investigation of the reflective properties of simulated, optically thick clouds
[NASA-CR-175362] 08 p1190 N84-17755
A laboratory investigation of the reflective properties of simulated, optically thick clouds
[NASA-CR-175158] 10 p1578 N84-20336
Design and verification of a cloud field optical simulator 10 p1578 N84-20339
MCKEEN, R. G.
Development of criteria for the use of asphalt-rubber as a Stress-Absorbing Membrane Interlayer (SAMI)
[AD-A137412] 10 p1471 N84-19608
MCKELVEY, V. E.
Analysis of the world distribution of metal-rich subsea manganese nodules
[USGS-CIRC-886] 03 p0395 N84-12577
MCKENDRY, M. S.
Software support for fully Distributed/Loosely coupled processing systems, volume 1
[AD-A141500] 19 p3076 N84-29518
Software support for fully distributed/loosely coupled processing systems. Volume 2: Appendix-selected papers
[AD-A141501] 19 p3076 N84-29519
MCKENNA, E. G.
Design versus manufacturing data base management requirements 12 p1890 N84-22304
MCKENNA, H. E.
Acoustical measurements of DOE/NASA MOD-0 wind turbine at Plum Brook Station, Ohio
[DE83-011971] 02 p0242 N84-11584
Aerodynamic sources of acoustic radiation from a single MOD-2 wind turbine
[DE84-000013] 06 p0909 N84-15905
MCKENNA, K. F.
Translation of field-reverse configurations in the FRX C/T experiment
[DE84-007489] 14 p2230 N84-24376
Coaxial slow source: A quasi-static FRC formation concept
[DE84-007476] 14 p2230 N84-24377
Internal magnetic field measurements in a translating field-reversed configuration
[DE84-010054] 20 p3284 N84-30854
MCKENNA, P. J.
The effect of the artificial far field boundary on a finite different approximation of the Navier-Stokes equations for a compressible fluid
[AD-A135152] 08 p1157 N84-17536
MCKENNEY, R. L., JR.
Guide to Canadian aerospace related industries
[AD-A140606] 17 p2598 N84-26650
MCKENZIE-WILSON, R. B.
Design and fabrication of the BNL radio frequency quadrupole
[DE84-001456] 05 p0671 N84-14409
Design fabrication and testing of the BNL radio frequency quadrupole accelerator
[DE84-011915] 21 p3494 N84-32145
MCKENZIE, A. B.
Encounters with surge 16 p2489 N84-25966
MCKENZIE, D. L.
On the rate of energy input in thermal solar flares
[AD-A138345] 13 p2092 N84-23548
Thermal and nonthermal phenomena in solar flare loops at 20 cm wavelength and in X-rays
[NASA-CR-173429] 14 p2252 N84-24522
Acceleration and confinement of energetic particles in the 7 June 1980 solar flare
[NASA-CR-173545] 16 p2580 N84-26550
MCKENZIE, E.
Renormalization of seasonals in the additive seasonal model: Is it necessary?
[AD-A140799] 17 p2734 N84-27379
An autoregressive process for Beta random variables
[AD-A140848] 17 p2759 N84-27514
A note on the derivation of theoretical autocovariances for ARMA models
[AD-A140829] 17 p2760 N84-27527
Error analysis for winters' additive seasonal forecasting system
[AD-A141355] 19 p3058 N84-29399
MCKENZIE, J. M.
Age, altitude, and workload effects on complex performance
[AD-A133594] 07 p1047 N84-16793
MCKENZIE, R. L.
Optical measurements of fluctuating temperatures in a supersonic turbulent flow using one- and two-photon, laser-induced fluorescence
[NASA-TM-85949] 15 p2336 N84-25020
Optical stark effect in the 2-photon spectrum of NO
[NASA-TM-85964] 21 p3492 N84-32131
MCKEON, T. J.
INFIL1D: A quasi-analytical model for simulating one-dimensional, constant flux infiltration
[DE84-008905] 20 p3187 N84-30250
MCKEOWN, W. T.
Cluster calculation of electronic structure of the diamond (111) surface using the XAlpha-scattered wave method
[AD-A140486] 16 p2560 N84-26426
MCKEVITT, F. X.
Performance verification tests of an uprated augmented catalytic thruster 20 p3136 N84-29911
MCKIBBIN, D. D.
A hardware/software simulation for the video tracking system of the Kuiper Airborne Observatory telescope
[NASA-TM-85898] 15 p2424 N84-25562
MCKILLIP, R. M., JR.
Periodic control of the individual-blade-control helicopter rotor
[NASA-CR-166607] 24 p3911 N84-34771
MCKIM, H. L.
Integration of LANDSAT land cover data into the Saginaw River basin geographic information system for hydrologic modeling
[AD-A140185] 16 p2510 N84-26106
MCKINLAY, W. H.
Some aspects of flight trajectory control in future avionic systems for combat aircraft 03 p0316 N84-12066
MCKINLEY, J. M.
A Taylor series in symmetry-adaptable functions
[AD-A142336] 20 p3280 N84-30819
MCKINLEY, P. W.
Water resources data for Puerto Rico, 1981 - 1982
[PB84-114701] 09 p1339 N84-18746
MCKINLEY, R. L.
An application of a multidimensional extension of the two-parameter logistic latent trait model
[AD-A137741] 11 p1713 N84-21170
An extension of the two-parameter logistic model to the multidimensional latent space
[AD-A137769] 11 p1713 N84-21173
MCKINLEY, W. G.
Aperture averaging of scintillation for space-to-ground optical communication applications
[AD-A132198] 04 p0521 N84-13428
Optical scintillation statistics for infrared ground-to-space laser communication systems
[AD-A136607] 09 p1299 N84-18495
MCKINNEY, B. J.
US military aircraft cost handbook
[AD-A136035] 09 p1249 N84-18158
The problem of cost growth
[AD-P002792] 13 p2057 N84-23339
MCKINNEY, C.
The 11th International Congress on Acoustics
[AD-A134345] 07 p1070 N84-16951
MCKINNEY, L. W.
Operational experience with the National Transonic Facility 14 p2094 N84-23565
MCKINNEY, P. M.
Studies in atmospheric chemistry. Part 1: Primary peroxides from hydrocarbons. Part 2: elemental analysis using nuclear reactions
[DE84-012246] 21 p3445 N84-31857
MCKINNEY, R. L.
Signal-processing capabilities of a computerized ultrasonic scanning bridge
[DE83-013708] 01 p0085 N84-10553
MCKINZIE, D. J., JR.
Acoustic excitation: A promising new means of controlling shear layers
[NASA-TM-83772] 21 p3325 N84-31096
MCKISSICK, B. T.
Effects of motion base and g-seat cueing of simulator pilot performance
[NASA-TP-2247] 09 p1255 N84-18189
MCKNIGHT, R. C.
Performance degradation of a typical twin engine commuter type aircraft in measured natural icing conditions
[NASA-TM-83564] 04 p0483 N84-13173
MCKNIGHT, W. B.
Operating conditions for the Hydrogen/Deuterium triplet lasers
[AD-A141388] 19 p3029 N84-29210
MCKUBRE, M. C. H.
Prediction of crack growth aqueous environments
[AD-A131485] 01 p0096 N84-10626
Temperature limitation of primary and secondary alkaline battery electrodes
[DE83-015009] 02 p0214 N84-11404
MCLACHLAN, B. G.
An experimental study of airfoil-spoiler aerodynamics 06 p0784 N84-15133
MCLACHLAN, K. R.
An experimental hybrid model for a bilinear hysteretic system 10 p1514 N84-19910
MCLAMB, F. D. J.
Eastern Space and Missile Center (ESMC) capability
[AD-A133788] 05 p0642 N84-14226
MCLARNON, F. R.
Active material redistribution rates in zinc electrodes: Effect of alkaline electrolyte compositions having reduced zinc oxide solubility
[DE84-010709] 21 p3392 N84-31525
MCLAUGHLIN, A. L.
The performance of civil airport pavement with lime-cement-flyash base course
[FAA-PM-84-10] 19 p2969 N84-26815
MCLAUGHLIN, D. E.
Muon spin relaxation in ferromagnetic PdMn
[DE83-012659] 03 p0453 N84-12979
MCLAUGHLIN, D. W.
Transverse solitary waves in a dispersive ring bistability cavity containing a saturable nonlinearity 14 p2240 N84-24446
MCLAUGHLIN, J. B.
Numerical study of heat transfer in turbulent shear flow
[DE84-005106] 11 p1655 N84-20602
MCLAUGHLIN, L. K.
Proceedings of the Federal Acquisition Research Symposium with Theme: Government, Industry and Academe: Synergism for Acquisition Improvement
[AD-A137700] 13 p2049 N84-23293
MCLAUGHLIN, P.
Parallel processor engine model program
[NASA-CR-174641] 10 p1431 N84-19353
MCLAUGHLIN, P. V., JR.
Application of stress-generated heat in composites to thermographic NDT 15 p2310 N84-24564
MCLAUGHLIN, R.
Development of a continuous monitor for detection of toxic organic compounds
[PB83-234922] 03 p0378 N84-12461
MCLAUGHLIN, S. B.
FORAST: A regional scale study of forest responses to air pollutants
[DE84-003269] 11 p1675 N84-20933
MCLEAN, D. J.
Proceedings of the STIP (Study of Travelling Interplanetary Phenomena) Symposium on Solar Radio Astronomy, Interplanetary Scintillations and Coordination with Spacecraft
[AD-A130687] 01 p0165 N84-11087
MCLEAN, E. A.
Creation of ultra-high-pressure shocks by the collision of laser-accelerated disks: Experiment and theory
[DE83-017366] 03 p0382 N84-12486
Observation of magnetic fields in laser-produced plasma using the Zeeman effect
[DE84-002742] 06 p0921 N84-15989
X-ray production in long-scale length laser-plasma interaction experiments
[DE84-002472] 07 p1076 N84-16997
Spectroscopic measurements of the Laser-HANE plasma
[AD-A138685] 13 p1995 N84-22947
Introduction to the Laser-HANE experiment and summary of low-pressure interaction results
[AD-A138945] 13 p1996 N84-22952
Optical imaging of a coupling region between inter-streaming plasmas
[AD-A139191] 14 p2224 N84-24348
Magnetic bubble formation produced by an expanding laser plasma
[AD-A139188] 14 p2228 N84-24359
Blast-wave analysis of high-pressure coupling shells
[AD-A139687] 15 p2350 N84-25108
Observation of Rayleigh-Taylor-Like structures in a laser-accelerated foil
[AD-A140294] 16 p2556 N84-26399
MCLEAN, J. D.
Fuel conservative guidance concept for shipboard landing of powered-lift aircraft
[NASA-TM-85971] 21 p3344 N84-31215
MCLEAN, M.
Potential of metal-matrix composites as superalloy substitutes 23 p3703 N84-33474
MCLEARY, R.
Characteristics of a plasma-injection-controlled discharge for CO2 mixing lasers
[MRL-R-922] 16 p2497 N84-26020
Pulsed hydrogen-fluoride laser
[MRL-R-831] 22 p3600 N84-32803
MCLEARY, R. C.
Millimetre waves: A problem for the future 24 p3915 N84-34790

MCLELLAN, R. B.
Thermodynamic and kinetic properties of interstitial solid solutions
[AD-A132783] 18 p2942 N84-28659
MCLENDON, J. T.
Ground penetrating radar: A review of its application in the mining industry, information circular 1984
[PB84-178292] 20 p3176 N84-30172
MCLENNAN, D.
Ultrasonic reflection from solid halfspaces and from solid plates
[AD-A129886] 01 p0140 N84-10916
MCLEOD, J. B.
The Froude number for solitary waves
[AD-A134548] 07 p1002 N84-16498
The number of solutions of an equation from catalysis
[AD-A134555] 07 p1063 N84-16896
MCLEOD, P. S.
High-efficiency solar cells fabricated by vacuum MO-CVD 19 p3047 N84-29329
MCLEOD, R. G.
The Pennsylvania defoliation application pilot test
[E84-10111] 13 p2004 N84-23004
MCLERRAN, L.
Ultra-relativistic heavy ions and cosmic rays
[DE83-015861] 03 p0476 N84-13134
MCLEVIGE, W. V.
GaAs/GaAlAs bipolar heterojunction gate array
[AD-A136203] 12 p1913 N84-22466
MCLINDEN, L.
Simple bounds for solutions of monotone complementarity problems and convex programs
[AD-A141699] 19 p3087 N84-29594
MCLINDEN, M.
Laboratory evaluation of the steady-state and part load performance of absorption type heating and cooling equipment
[PB84-162146] 21 p3376 N84-31426
MCLOUGHLIN, V. C. R.
Corrosion control requirements for UK military aircraft 16 p2434 N84-25614
MCMAHAN, T.
Repairing Solar Max: The Solar Maximum Repair Mission
[NASA-EP-205] 19 p2979 N84-28883
MCMAHON, C. J., JR.
Segregation of Si and Sn to the Fe(100) surface in the Fe-6.2% Si-0.03% Sn alloy
[AD-A138154] 12 p1798 N84-21726
MCMAHON, H.
Interference drag in a simulated wing-fuselage juncture
[NASA-CR-3811] 20 p3126 N84-29853
MCMAHON, P.
Properties of carbon fibers with various coatings
[NASA-TM-77027] 10 p1464 N84-19563
MCMAHON, R.
The role of the Automated Plate Measuring (APM) machine in developing a program to discover QSOs automatically 18 p2843 N84-28054
MCMANIS, G. E.
Electrochemical reduction reactions involving formic acid
[AD-A139479] 14 p2123 N84-23721
MCMANUS, J. C.
Logistics engineering design techniques for fault-tolerant avionics systems
[AD-A137456] 10 p1430 N84-19349
MCMASTER, L. R.
Proceedings of a Workshop on Polar Stratospheric Clouds: Their Role in Atmospheric Processes
[NASA-CP-2318] 22 p3622 N84-32952
MCMASTER, W. H.
Computer codes for fluid-structure interactions
[DE84-011066] 21 p3401 N84-31578
MCMEEKING, R. M.
Stress intensity factors for slightly kinked, partially closed cracks in compression
[AD-A140550] 16 p2503 N84-26064
MCMILLAN, C. F.
Repetitively pulsed electric laser acoustic studies, volume 1
[AD-A136538] 09 p1322 N84-18636
MCMILLAN, G. R.
Laboratory studies of aircrew chemical protective ensemble: Effects on pilots' performance 11 p1697 N84-21066
Motion simulation with a G-seat system: Sensory and performance mechanisms
[AD-P003267] 18 p2907 N84-28432
MCMILLAN, J.
The AMTE/OUEL underwater jet noise rig
[OUEL-1491/83] 07 p1070 N84-16953
MCMILLAN, O. J.
A study of prediction methods for the high angle-of-attack aerodynamics of straight wings and fighter aircraft
[NASA-CR-3764] 06 p1097 N84-17131
MCMILLAN, S. L. W.
A hybrid N-body/Fokker-Planck stellar dynamical code with application to late core collapse in globular clusters 17 p2775 N84-27620
MCMILLIN, C. R.
Passive sampling device for ambient air and personal monitoring
[PB84-210046] 22 p3599 N84-32798
MCMILLIN, M. L.
Interactive geometry modeling of space station conceptual designs 12 p1871 N84-22191
MCMINN, A.
Fatigue crack growth in austenitic stainless steel
[ND-R-802(S)] 18 p2813 N84-27856
MCMONAGLE, D. R.
AFTI/F-16 flight test results and lessons
[NASA-TM-84920] 06 p0791 N84-15159
MCMULLIN, P. R.
Combining testing with formal specifications: A case study
[AD-A134110] 05 p0726 N84-14764
MCMURDIE, H. F.
Standard X-ray diffraction power patterns: Section 20 - data for 71 substances
[PB84-155191] 14 p2244 N84-24475
MCMURRY, W. S.
Pilot behavior models for LSO (Landing Signal Officer) training systems
[AD-A135823] 10 p1552 N84-20169
MCMURTREY, J., III
The effects of vegetation and soil hydraulic properties on passive microwave sensing of soil moisture: Data report for the 1982 field experiments
[NASA-TM-85106] 07 p1023 N84-16633
Microwave radiometer experiment of soil moisture sensing at BARC test site during summer 1981
[NASA-TM-86056] 14 p2168 N84-23989
MCMURTRIE, J. T., JR.
Spatial structures of optical parameters in the California current as measured with the Nimbus-7 coastal zone color scanner
[AD-A144070] 23 p3803 N84-34115
MCNAB, T. K.
Radiative properties of advanced spacecraft heat shield materials
[NASA-CR-3740] 02 p0193 N84-11258
MCNAIR, A.
Characterization of physio-chemical properties of polymeric and electrochemical materials for aerospace flight
[NASA-CR-175406] 10 p1465 N84-19568
Characterization of physiochemical properties of polymeric and electrochemical materials for aerospace flight
[NASA-CR-175258] 22 p3558 N84-32534
MCNALLAN, M. J.
Formation of surface layers during oxidation of a Fe-Mn-Si alloy
[DE83-009495] 03 p0354 N84-12302
MCNALLY, G. W.
Digital audio: Dynamic range control of digital audio signals
[BBC-RD-1983/17] 05 p0665 N84-14374
MCNAMARA, A. G.
Project Waterhole III 05 p0640 N84-14210
MCNAMARA, B.
Rapidly convergent algorithms for 3-D tandem and stellarator equilibria in the paraxial approximation
[DE84-009688] 18 p2933 N84-28603
MCNAMARA, L. F.
The conversion of off-vertical observations of total electron content into equivalent vertical-incidence values
[AD-A132624] 05 p0703 N84-14613
Prediction of total electron content using the International Reference Ionosphere
[AD-A137136] 10 p1536 N84-20066
MCNAMARA, R. L.
Relationship of Benkelman beam deflection as measured by Florida method to those measured by AASHTO method T-256-77, P-13-79
[PB83-252973] 05 p0694 N84-14557
MCNAMARA, S. J.
Suboptimal missile evasion through a sensitivity analysis of proportional guidance to target evasion maneuvers
[AD-A136803] 10 p1428 N84-19338
MCNAMARA, W. G.
The impact of the F/A-18 aircraft digital flight control system and displays on flight testing and safety 06 p0777 N84-15091
MCNAMEE, E. H.
Nitroguanidine wastewater pollution control technology: Phase 2 wastewater characterization and analytical methods development for organics
[AD-A141176] 18 p2811 N84-27844
MCNARY, C. A.
AFCRL (Air Force Cambridge Research Laboratories) acoustic wind sensor system
[AD-A133739] 05 p0708 N84-14641
MCNATT, J. D.
Long-term load performance of hardboard I-beams
[AD-A136091] 09 p1334 N84-18706
How some test variables affect bending, tension, and compression values for particle panel products
[AD-A143627] 23 p3761 N84-33836
MCNEE, R. C.
Organizational-climate dimensions: A conceptual and judgmental analysis
[AD-A132898] 06 p0934 N84-16068
A set of organizational-climate measures: Internal consistency, factor structure, and predictive power
[AD-A135352] 09 p1398 N84-19132
MCNEECE, J. P.
Continuous energy gamma-ray spectrometry
[DE84-006349] 14 p2123 N84-23726
MCNEELY, B. N.
User's guide for an IBM PL/I implementation of the international standard organization DIS 8211 information processing-specification for a data descriptive file for information interchange
[ORNL/CSD-TM-207] 23 p3814 N84-34188
MCNEIL, J. A.
An EPROM-based function generator 04 p0519 N84-13408
MCNEIL, J. R.
Ion beam assisted deposition of SiO2
[AD-A136247] 09 p1278 N84-18342
MCNEIL, W. J.
Analysis of spacecraft charging, particle beams and geophysical data bases
[AD-A138632] 13 p1940 N84-22616
MCNEILL, D.
Pluribus satellite IMP (Interface Message Provision) development mobile access terminal network
[AD-A132690] 05 p0670 N84-14405
MCNEILLY, D. R.
Biasing and fast degaussing circuit for magnetic materials
[DE84-011281] 20 p3285 N84-30857
MCNICHOLS, G. R.
US military aircraft cost handbook
[AD-A136035] 09 p1249 N84-18158
The problem of cost growth
[AD-P002792] 13 p2057 N84-23339
Independent cost estimates: A case study joint vertical lift aircraft (JVX) program
[AD-P002797] 13 p2057 N84-23343
MCNIDER, R. T.
Investigation of mesoscale pre-convective forcing mechanisms 24 p3931 N84-34883
MCNULTY, P. J.
Raman and fluorescent scattering by molecules embedded in small particles
[DE84-001278] 04 p0597 N84-13937
Trapped-proton energy spectrum determination (M0002-1) 15 p2276 N84-24663
MCNULTY, R. P.
Some basic elements of thunderstorm forecasting
[PB83-222604] 01 p0109 N84-10710
MCNUTT, R. L.
Charging effects observed on Voyager 1 near Jupiter 08 p1116 N84-17260
MCPEAK, A. W.
Dual mode propulsion system engine testing for INTELSAT 20 p3136 N84-29913
MCPHAIL, A. T.
Studies in boron chemistry
[AD-A135364] 09 p1280 N84-18360
MCPHERRON, R. L.
Communications magnetospheric substorms
[AD-A133898] 05 p0703 N84-14611
Implications of the 1100 UT 22 March, 1979 CDAW 6 substorm event for the role of magnetic reconnection in the geomagnetic tail
[DE84-004335] 10 p1537 N84-20071
Numerical modeling of ionospheric parameters from global IMS (International Magnetospheric Study) magnetometer data for the CDAW-6 intervals
[PB84-151307] 14 p2177 N84-24041
MCPHERSON, K. W.
Evaluation of installation of Lightweight Doppler Navigation System (LDNS) in Iroquois UH-1H aircraft
[AD-A137815] 11 p1605 N84-20510
MCQUEEN, R. G.
Melting of metals above 100 GPa
[DE83-015261] 01 p0046 N84-10299

Mach disc formation in cylindrical recovery systems
[DE83-015912] 02 p0220 N84-11442
The velocity of sound behind strong shock waves in 2024 Al
[DE83-015927] 02 p0220 N84-11446

MCQUEEN, S. V.
Hybrid space heating/cooling system with Trombe wall, underground venting, and assisted heat pump
[DE84-000406] 04 p0559 N84-13686

MCQUILKIN, F. T.
SPF/DB primary structure for supersonic aircraft (T-38 horizontal stabilizer)
[NASA-CR-163114] 18 p2813 N84-27860

MCQUILLAN, J. M.
C3I (Command, Control, Communications and Intelligence) information systems internetwork study
[AD-A144271] 24 p3942 N84-34958

MCQUISTAN, R. B.
Lattice statistics
[AD-A136588] 09 p1382 N84-19025

MCQUIVEY, R. S.
Remote sensing and hydrologic models
[E84-10082] 07 p1022 N84-16628
Review of hydrologic models for evaluating use of remote sensing capabilities 07 p1022 N84-16629

MCRAE, E.
Low temperature structure and properties of graphite lamellar compounds
[AD-A140875] 17 p2768 N84-27579

MCRAE, K. I.
Application of FRACTOMAT/KRAK GAGES to crack growth measurements in structural components
[AD-A130945] 01 p0095 N84-10620

MCRAE, T. G.
The evaporation and gaseous dispersion of large-scale releases of nitrogen tetroxide
[AD-A142079] 20 p3166 N84-30104
Vapor spill pipe monitor
[DE84-011103] 20 p3190 N84-30267

MCREE, G. J.
Control methodologies for large space structures
[NASA-CR-173987] 24 p3861 N84-34467

MCRUER, D. T.
Space Shuttle flying qualities and flight control system assessment study, phase 2
[NASA-CR-170406] 05 p0633 N84-14158
Space shuttle flying qualities criteria assessment, phase 3
[NASA-CR-170407] 11 p1614 N84-20565
Flexible aircraft flying and ride qualities
11 p1615 N84-20572

MCSHANE, J. W.
G-38, 39 and 40: An artist's exploration of space
18 p2801 N84-27774

MCSMITH, D. D.
Tubing and cable cutting tool
[NASA-CASE-LAR-12786-1] 18 p2848 N84-28085

MCSWAIN, G.
Shuttle ascent GN&C postflight results
01 p0022 N84-10140

MCTIGUE, D. F.
Stresses in a submarine topography under ocean waves
[DE84-005722] 12 p1863 N84-22139
New approach to the effective stress principle
[DE84-006963] 21 p3401 N84-31574

MCTIQUE, D. F.
Gravitational instability of an interface between two second-order fluids 15 p2314 N84-24887

MCVEA, W. R.
Advanced finishing methods for spiral bevel and hypoid gears 09 p1293 N84-18451

MCVEY, B. D.
Introduction to tandem mirror physics
[DE84-006644] 12 p1911 N84-22451

MCWANE, P. D.
Selected aspects of radio interference from HVDC (High Voltage Direct Current) converter stations
[PB83-219675] 01 p0075 N84-10494

MCWHIRTER, J. G.
Radar signal processing architectures and algorithms in digital VLSI (Very Large Scale Integration)
[PB84-140110] 11 p1645 N84-20756

MCWHORTER, A. L.
Solid state research work of the Solid State Division at Lincoln Laboratory
[AD-A134594] 07 p1081 N84-17028
Solid state research
[AD-A140027] 15 p2413 N84-25488
Solid state research
[AD-A142991] 21 p3504 N84-32204

MCWILLIAMS, B. M.
Wafer-scale laser pantography. Part 6: Direct-write interconnection of VLSI gate arrays
[DE84-012676] 22 p3601 N84-32815

MCWILLIAMS, J. C.
On the mean dynamical balances of the Gulf Stream Recirculation Zone
[AD-P002661] 11 p1691 N84-21026
Satellite data relay and platform locating in oceanography. Report of the In Situ Ocean Science Working Group
[NASA-TM-85443] 12 p1860 N84-22116

MCWILLIAMS, R.
Time resolved measurement and analysis of the response of confined explosives to heat, impact and penetration
[DE84-002781] 07 p0981 N84-16358

MCWITHEY, R. R.
Metal matrix composite structural panel construction
[NASA-CASE-LAR-12807-1] 02 p0187 N84-11214
Theoretical basis for design of thermal-stress-free fasteners
[NASA-TP-2226] 04 p0548 N84-13614

MEAD, C. A.
Concurrent algorithms as space-time recursion equations 09 p1400 N84-19143

MEAD, J. M.
Far infrared supplement: Catalog of infrared observations
[NASA-RP-1119] 16 p2574 N84-26519
Catalog of infrared observations including: Bibliography of infrared astronomy and index of infrared source positions
[NASA-RP-1118] 16 p2574 N84-26520

MEAD, J. W.
Compatibility and accelerated aging study for Li(Si)/FeS/sub 2 thermally activated batteries
[DE84-006099] 12 p1813 N84-21818
High temperature adhesive silicone foam composition, foam generating system and method of generating foam
[DE84-014315] 23 p3725 N84-33605

MEAD, K.
Rapid identification of micro-organisms
[AD-A132831] 06 p0886 N84-15759

MEAD, R.
Automated data base implementation requirements for the avionics planning baseline, Army
[AD-A135259] 08 p1240 N84-18103

MEADORS, J. G.
Detection of electromagnetic radiation leakage through small structural openings
[AD-A137407] 10 p1479 N84-19667

MEADOWS, B. F.
Use of microcomputers for inventory management with uncertain demand
[DE84-005179] 11 p1705 N84-21112

MEADOWS, G. A.
The use of satellite and aircraft SAR to detect and chart hazards to navigation
[AD-A141658] 19 p3041 N84-29296

MEADOWS, N.
The effect of perforation on the aerodynamics of a spoiler
[BU-286] 15 p2255 N84-24545

MEADOWS, P. J.
The behaviour of the 3.28 micron dust feature in NGC 2024 16 p2571 N84-26498
The behaviour of the 3.28 micron dust feature in NGC 2024 18 p2949 N84-28696

MEAGHER, G. M.
Dual mode propulsion system engine testing for INTELSAT 20 p3136 N84-29913

MEANEY, J. E., JR.
Re-design and fabrication of titanium multi-wall Thermal Protection System (TPS) test panels
[NASA-CR-172247] 12 p1780 N84-21610

MEANS, J. L.
The organic geochemistry of deep ground waters and radionuclide-partitioning experiment: Under hydrothermal conditions
[DE83-015784] 04 p0554 N84-13651

MEAUZE, G.
A coupling method for the inverse mode calculation of transonic internal flows with a shock wave
07 p0955 N84-16194

MECH, S. J.
Ultrasonic test data acquisition and defect verification of stainless steel welds at 4000 deg F
[DE83-012146] 06 p0855 N84-15570

MECHOLSKY, J. J.
Analysis of soldering-induced cracking of BaTiO3 ceramic capacitors
[DE83-013980] 02 p0200 N84-11304

MECOZZI, D. T.
Syntax and semantics of a LINCS control monologue
[DE84-011399] 20 p3277 N84-30805

MEDECKI, H.
X-ray streak crystal spectrography
[DE83-015618] 02 p0225 N84-11473
Time-resolved spectral measurements above 80 A
[DE83-015616] 03 p0446 N84-12933
Streak cameras for soft X-ray and optical radiation
[DE84-002780] 08 p1182 N84-17564
Development of soft X-ray streak cameras at Lawrence Livermore National Laboratory
[DE83-015841] 10 p1499 N84-19797
Photoemissive materials for 0.35 Micron laser fiducials in X-ray streak cameras
[DE84-008348] 20 p3194 N84-30283
Soft X-ray laser experiments at Norvette Laser Facility
[DE84-012594] 21 p3410 N84-31627
Diagnostics for an XUV/soft X-ray laser
[DE84-012593] 21 p3410 N84-31628

MEDERO, J. M.
Evaluation of process systems for effective management of aluminum finishing wastewaters and sludges
[PB84-170661] 16 p2520 N84-26178

MEDFORD, L. V.
Dependence of hydromagnetic energy spectra on interplanetary parameters
[AD-A138745] 13 p2036 N84-23209

MEDINA, M. A.
The effects of organophosphorus anticholinesterase compounds on brain glucose and energy metabolism
[AD-A137819] 11 p1695 N84-21058

MEDINNIS, M.
The performance of 16000 wire mini-drift MWPC system 06 p0912 N84-15922

MEDLIN, C. H.
Weibull analysis handbook
[AD-A143100] 21 p3475 N84-32023

MEDRANO-B., R. A.
Electromagnetic wave propagation in magnetoionic media
[INPE-3189-PRE/553] 23 p3730 N84-33640

MEDVEDEV, G. G.
Turbulent flow of aerosol in rotating channels of turbomachines 17 p2649 N84-26939

MEEHAN, J.
The Spacelab flight unit offgassing test
[ESA-STM-232] 23 p3701 N84-33460

MEEHAN, P.
Investigate and verify the validity of mathematical formulas in relation to data obtained from theoretical investigations and experimental observations
[AD-A137847] 11 p1682 N84-20974
Application of methods of numerical and software engineering analysis to physical and engineering data collected in a variety of laboratory and field measurement programs
[AD-A137863] 11 p1682 N84-20975

MEEK, C. E.
Measurement of the horizontal velocity of wind perturbations in the middle atmosphere by spaced MF radar systems 17 p2688 N84-27121

MEEK, T. T.
Ceramic-glass-metal seal by microwave heating
[DE84-011283] 20 p3196 N84-30295

MEEKER, D.
High-power RF compressor
[DE84-013118] 22 p3578 N84-32664

MEEKER, J. G.
X-band uplink technology demonstration at DSS-13
16 p2479 N84-25893

MEEKINS, J. F.
Polynominal grating
[AD-D011090] 22 p3657 N84-33186

MEEKS, E. L.
Molecular beam epitaxy of HgCdTe
[AD-A141574] 19 p3110 N84-29781

MEERKOETTER, R.
Long wave radiance to space and net flux at the surface 10 p1535 N84-20056

MEERTENS, L.
Big omega versus the wild functions
[MC-IW-239/83] 13 p2035 N84-23200

MEETHAM, G. W.
The future for titanium and superalloys
[PNR-90175] 13 p1961 N84-22742

MEGAHED, M. M.
Inelastic deformation of metals and structures under dynamic and quasi-static cyclic loading
[AD-A136022] 09 p1332 N84-18700

MEGER, R. A.
Theoretical modeling of the plasma-erosion opening switch for inductive-storage applications
[DE84-001843] 04 p0529 N84-13483
Status of light ion inertial fusion research at NRL (Naval Research Laboratory)
[AD-A135951] 09 p1392 N84-19087

MEGGLE, R.
Wind energy converter GROWIAN 2
[BMFT-FB-T-84-063] 19 p3051 N84-29364

MEGGS, W. G.
On the statistical analysis of cloud seeding experiments 17 p2733 N84-27370

MEGIE, G.
Remote sensing instruments for trace species measurements in the troposphere and stratosphere: A review 03 p0396 N84-12583
Spaceborne lidar applications to meteorology and environmental studies 24 p3904 N84-34725
An ER-2 aircraft airborne lidar as part of the development program of a spaceborne system: A potential NASA/CNES cooperative project 24 p3907 N84-34744

MEGOS, E. L.
The computerization of material safety data sheet information
[AD-A131992] 03 p0459 N84-13021

MEGUSAR, J.
Structures and properties of rapidly solidified 9Cr-1Mo steel
[DE84-001276] 04 p0499 N84-13276
Irradiation response in titanium-modified austenitic stainless steels prepared by rapid-solidification processing. Part 2: Dual-ion irradiations
[DE84-001297] 04 p0500 N84-13282

MEHALIC, C. M.
Determination of compressor in-stall characteristics from engine surge transients
[NASA-TM-83639] 13 p1932 N84-22566

MEHALIC, M. A.
Effects of computer architecture on FFT (Fast Fourier Transform) algorithm performance
[AD-A138465] 12 p1876 N84-22237

MEHALICK, E. M.
Design and fabrication of a prototype system for photovoltaic residences in the southwest
[DE82-016271] 05 p0700 N84-14592

MEHDI, I. S.
Advanced aircraft electrical system control technology demonstrator. Phase 1: Requirements analysis & preliminary design. Phase 2: Detailed design
[AD-A136758] 10 p1428 N84-19337

MEHL, W.
Marine remote sensing activities of the Joint Research Center, Ispra, Italy 03 p0396 N84-12586
Geometric performance: Line to line displacement analysis 10 p1524 N84-19983
A preliminary analysis of LANDSAT-4 Thematic Mapper radiometric performance 20 p3206 N84-30379

MEHLBREUER, A.
Software research for computer aided cartography at the Berlin Technical University 20 p3226 N84-30503

MEHLHORN, T. A.
Beam-target interaction of intense ion beams: Theory and experiment
[DE83-018264] 03 p0436 N84-12858
Ion stopping in heated targets
[DE83-017800] 03 p0447 N84-12941
Current status of calculations and measurements of ion stopping power in ICF plasmas
[DE84-005880] 21 p3501 N84-32187

MEHLHOSE, R.
Wind energy converter GROWIAN 2
[BMFT-FB-T-84-063] 19 p3051 N84-29364

MEHLTRETTER, J. P.
Nutation damper for the AMPTE-IRM satellite: Final Report
[NASA-TM-77330] 05 p0643 N84-14228

MEHRABIAN, R.
A review of our present understanding of macrosegregation in ingots 24 p3883 N84-34601

MEHRING, J. W.
The satellite applications of amplitude companded single sideband modulation 06 p0827 N84-15391

MEHROTA, P.
A model for the distributed storage and processing of large arrays
[NASA-CR-172252] 03 p0420 N84-12742

MEHROTRA, A. K.
Development of GAP-TAGN-PEG propellants. Part 1: Study of ingredients 20 p3143 N84-29954
Synthesis of diazidodiesters 20 p3143 N84-29956

MEHROTRA, G. M.
Development of new intercalated cathode materials for use in sodium batteries
[NASA-CR-173145] 07 p0997 N84-16460

MEHROTRA, K. G.
Properties of a new rank statistic for comparing two populations in an arbitrary right censoring sampling scheme
[AD-A139640] 15 p2400 N84-25400

MEHTA, N. C.
Use of multi-frequency, multi-polarization, multi-angle airborne radars for class discrimination in a southern temperature forest 23 p3767 N84-33881

MEHTA, R. D.
Crossed hot-wire data acquisition and reduction system
[NASA-TM-85871] 11 p1656 N84-20807

MEHTA, S.
Radiation damage and defect behavior in ion-implanted, lithium counterdoped silicon solar cells
[NASA-TM-83646] 13 p1985 N84-22890
Cell and defect behavior in lithium-counterdoped solar cells 19 p3046 N84-29322
The effects of lithium counterdoping on radiation damage and annealing in n(+)p silicon solar cells
[NASA-TM-83755] 21 p3390 N84-31513

MEHTA, U. B.
Physical aspects of computing the flow of a viscous fluid
[NASA-TM-85893] 14 p2100 N84-23605
Computational aerodynamics and artificial intelligence
[NASA-TM-85994] 21 p3324 N84-31089
Potential application of artificial concepts to aerodynamic simulation
[NASA-TM-85976] 21 p3324 N84-31093

MEHTER, E.
Surface acoustic wave/silicon monolithic sensor/processor
[NASA-CR-174541] 01 p0056 N84-10366

MEI-DONG, C.
Periodicities in the occurrence of aurora as indicators of solar variability 03 p0470 N84-13093

MEI, C.
Component mode synthesis and large deflection vibrations of complex structures
[NASA-CR-173338] 09 p1329 N84-18680
Large deflection multimode response of clamped rectangular panels to acoustic excitation, volume 1
[AD-A139622] 15 p2350 N84-25107

MEI, C. C.
Stresses in a submarine topography under ocean waves
[DE84-005722] 12 p1863 N84-22139

MEI, K. K.
Electromagnetic wave scattering by partially-buried metallic and dielectric objects
[AD-A140109] 15 p2322 N84-24939

MEI, V. C.
Vertical concentric-tube ground-coupled heat exchangers
[DE83-014003] 02 p0219 N84-11435

MEIBURG, E.
High Marangoni Number convection in a square cavity: Additional results
[AD-A144485] 24 p3901 N84-34701

MEIER, D.
The NMR laser: A nonlinear solid state system showing chaos 14 p2239 N84-24440

MEIER, G.
On transit time instability in liquid jets
[NASA-TM-77455] 10 p1490 N84-19742

MEIER, G. E.
Acoustic damping by microcondensate 07 p1070 N84-16952

MEIER, G. E. A.
Transonic noise generation by duct and profile flow
[AD-A129367] 06 p0908 N84-15899
Initial experiments on profile vortex interaction
[MPIS-6/1983] 12 p1766 N84-21520
Development of a device for evaluation of interferograms
[BMFT-FB-T-84-097] 21 p3407 N84-31613

MEIER, G. H.
Fundamental research directed to advanced high temperature coating systems beyond the current state-of-the-art systems
[AD-A131618] 02 p0194 N84-11261

MEIER, H. J.
Concept study phase A2 for the solar spectrograph PETRA
[BMFT-FB-W-83-014] 07 p1008 N84-16540

MEIER, H. U.
Separation and vortical-type flow around a prolate spheroid: Evaluation of relevant parameters 03 p0323 N84-12113

MEIER, J. G.
Experimental study of the operating characteristics of premixing-prevaporizing fuel/air mixing passages
[NASA-CR-168279] 05 p0630 N84-14143

MEIER, K. L.
Space reactor preliminary mechanical design
[DE83-012689] 01 p0145 N84-10953

MEIER, R. R.
An extreme ultraviolet spectrometer experiment for the Shuttle Get Away Special Program 18 p2801 N84-27778
Overview of ultraviolet remote sensing of the ionosphere
[AD-A141533] 19 p3041 N84-29294

MEIER, R. W.
The strength and behavior of steel fiber-reinforced concrete under combined tension-compression loading
[AD-A136124] 09 p1334 N84-18708

MEIER, T.
Laser-induced fluorescence line narrowing in atomic vapors
[DE83-018216] 04 p0541 N84-13558

MEIJER, R. J.
The base engine for solar Stirling power 18 p2875 N84-28254

MEIJER, R. W.
European community support to software engineering development through Ada activities and ESPRIT 05 p0724 N84-14747

MEIJER, S.
A description of two methods for calculation of low frequency wind turbine noise, including applications for the Swedish prototype Wind Energy Conversion System (WECS) Maglarp
[FFA-TN-1983-31] 18 p2876 N84-28262

MEIJERINK, J. A.
A multigrid method and a combined multigrid-conjugate gradient method for elliptic problems with strongly discontinuous coefficients in general domains
[PUBL-604-REV] 08 p1222 N84-17980

MEIJERINK, J. G. J.
Converting to Ada packages
[NPL-DITC-39/84] 18 p2919 N84-28512

MEIJERS, P.
Stability of a rubber half-space
[WTHD-159] 07 p0949 N84-16156

MEINDL, J. D.
Center of excellence in aerospace manufacturing automation
[AD-A136477] 09 p1249 N84-18155

MEINERS, A. C., JR.
Improving the effectiveness of award fee contracts for program management support services
[AD-P002827] 13 p2062 N84-23372

MEINGAILIS, J.
Submicron structures technology and research 22 p3683 N84-33353

MEINKE, P.
Laser-plasma interaction and self organization phenomena in magnetoplasmas 10 p1584 N84-20382
The significance of the pinch phase for the production of neutrons in a plasma focus
[IPF-83-2] 14 p2231 N84-24379

MEIRON, D. I.
The stability of inviscid vortex streets of finite cored vortices
[AD-A139311] 14 p2145 N84-23855

MEIROVITCH, L.
Control of large flexible spacecraft by the independent modal-space control method
[NASA-CR-3760] 09 p1265 N84-18262

MEISCHNER, P.
Coherent polarimetric C-band radar for atmospheric research 23 p3776 N84-33937

MEISEL, L. V.
Electrical transport in low resistivity amorphous alloys
[AD-A136331] 09 p1282 N84-18372

MEISLING, K. E.
Neotectonics of the north frontal fault system of the San Bernardino Mountains, southern California: Cajon Pass to Lucerne Valley 13 p2013 N84-23061

MEISSL, T.
Development of a method for wear measurement of thermoplast journal bearings
[OEFZS-4271] 18 p2849 N84-28093

MEISSNER, D.
Modular Optoelectronic Multispectral Scanner (MOMS). Digital image storage
[MBB-UA-686-82-OE] 05 p0746 N84-14901
Modular Optoelectronic Multispectral Scanner (MOMS)-01 on STS-7 and STS-11: Missions and results 23 p3765 N84-33862

MEISSNER, H. G.
Control of dynamic systems based on graphic information 13 p2029 N84-23159

MEISTER, D.
Guide to the development of a human factors engineering data retrieval system
[AD-A136918] 10 p1554 N84-20187

MEISTER, R.
Properties of material in the submillimeter wave region (instrumentation and measurement of index of refraction)
[NASA-CR-175156] 07 p1006 N84-16524

MEIXNER, R. P.
Considerations for choosing microwave transistors in high power shipboard search radars
[AD-A133279] 06 p0823 N84-15367

MEKARI, M. H.
Testing and evaluation of JET electric vehicle models, 600, 1000, and 1000P
[AD-A141187] 18 p2849 N84-28090
MELACK, J. M.
Assessment of acidity of lakes and precipitation in the Sierra Nevada
[PB83-255521] 05 p0701 N84-14603
Inland aquatic resources and biogeochemical cycles 20 p3217 N84-30438
MELANKHOLINA, Y. N.
Tectonic and magmatic rock of central Pacific Ocean 18 p2858 N84-28150
MELCHIOR, P.
Physics of the Earth's interior 07 p1029 N84-16667
MELEK, Y. S.
Geophysical investigations of a geothermal anomaly at Wadi Ghadir, eastern Egypt
[NASA-CR-173527] 14 p2175 N84-24030
MELENDEZ, R. E.
Observed current enhancement with propagation of the ETA electron beam in air
[DE84-010558] 20 p3293 N84-30909
MELESHKO, G. I.
Physiological and ecological characteristics of the water fern, azolla pinnata, and prospects of using it in biological life-support system for man 02 p0261 N84-11709
MELHEM, R. G.
Simulation of systolic networks with a syntax directed solver for systems of sequence equations
[AD-A130232] 01 p0064 N84-10417
On the design of a Pipelined/Systolic finite element system
[AD-A142558] 20 p3281 N84-30830
MELHORN, T. A.
Magnetic trapping of intense ion beams
[DE83-017356] 03 p0437 N84-12866
MELIA, J.
Use of satellites in frost forecasting: SIPHES 23 p3775 N84-33931
MELIKSETYAN, S. /.
Electrofilters from polymer materials 24 p3867 N84-34509
MELILLO, J. M.
Deforestation measured by LANDSAT: Steps toward a method
[DE83-016645] 04 p0554 N84-13652
Test of the use of LANDSAT imagery to detect changes in the area of forest in the tropics
[DE84-004444] 08 p1179 N84-17680
MELITA, O.
Remote Sensing Applications for Environmental Studies
[ESA-SP-188] 03 p0395 N84-12579
The Gravity Relevance in Bone Mineralization Processes
[ESA-SP-203] 23 p3807 N84-34138
MELKMAN, A. A.
Optimal reconstructions and n-widths
[AD-A133576] 06 p0902 N84-15853
MELKOV, G. A.
Amplification of traveling magnetostatic waves by parametric pumping 21 p3479 N84-32050
MELKUMYAN, A. A.
Two large decreases of cosmic ray intensity in August and September, 1979 24 p3994 N84-35278
MELLENBRUCH, L. L.
Digital multi-tapped delay line with automatic time-domain programming
[AD-D011136] 22 p3581 N84-32676
MELLIAR-SMITH, P. M.
Fault tolerant architectures for integrated aircraft electronics systems
[NASA-CR-172226] 01 p0119 N84-10769
An interval logic for higher-level temporal reasoning
[NASA-CR-172262] 07 p1053 N84-16821
Development and analysis of the Software Implemented Fault-Tolerance (SIFT) computer
[NASA-CR-172146] 09 p1371 N84-18953
Investigation, development, and evaluation of performance proving for fault-tolerant computers
[NASA-CR-166008] 15 p2385 N84-25307
STP: A mechanized logic for specification and verification 15 p2386 N84-25308
Specifying and verifying ultra-reliability and fault-tolerance properties 15 p2386 N84-25309
Fault tolerant architectures for integrated aircraft electronics systems, task 2
[NASA-CR-172282] 18 p2795 N84-27734
Distributed avionic computers
[AD-A142140] 19 p3073 N84-29494
MELLICHAMP, J. M.
Integrating multi-objective optimization methodologies in BMD technology
[AD-A136161] 09 p1383 N84-19036
MELLIN, P. J.
An investigation of experimental techniques for obtaining particulate behavior in metallized solid propellant combustion 13 p1947 N84-22659
Holographic investigation of solid propellant combustion particles
[AD-A140168] 16 p2496 N84-26016
MELLMAN, G. R.
Determination of strong ground motion in complex structures using dynamic raytracing
[AD-A138559] 14 p2176 N84-24036
MELLO, P.
The debugging of real time multiprocessor systems: An integrated solution proposal
[CISE-2067] 06 p0899 N84-15837
MELLO, S. F.
Galilean satellites: Observations, ephemerides and theories 19 p3120 N84-29829
MELLOR, G. L.
Analytical studies of turbulent flow fields
[AD-A137008] 10 p1493 N84-19761
MELLOR, M.
Mechanical behavior of sea ice
[AD-A131852] 03 p0401 N84-12619
Mechanical properties of multi-year sea ice. Phase 1: Test results
[AD-A144132] 24 p3935 N84-34907
Mechanical properties of multi-year sea ice. Testing techniques
[AD-A144431] 24 p3935 N84-34908
MELLOTT, M. M.
Investigation of laminar shocks
[DE84-010074] 20 p3242 N84-30582
MELMAN, A. G.
Possibilities of studying inelastic properties and characteristics of medium inhomogeneity using spectra of scattered waves 17 p2706 N84-27230
MELNGAILIS, J.
Switchable zero order diffraction gratings as light valves
[AD-A133010] 05 p0747 N84-14908
Switchable zero order diffraction gratings as light valves
[AD-A142513] 20 p3300 N84-30953
MELNIKOV, A.
Trade agreements on know-how discussed 01 p0054 N84-10349
MELNIKOV, V. K.
Thermal and electrical interaction of tantalum with a low temperature chemically active plasma flow
[NASA-TM-77374] 06 p0920 N84-15980
MELNIKOVA, N. T.
Quality and reliability of steel wire ropes
[BLL-M-35461-(5828.4)] 12 p1821 N84-21872
MELNIKOVA, V. V.
Influence of microalloying with titanium and boron on cold resistance of structural steel
[BLL-M-35698-(5828.4)] 22 p3551 N84-32483
MELONI, A.
Dependence of hydromagnetic energy spectra on interplanetary parameters
[AD-A138745] 13 p2036 N84-23209
MELROY, D. K.
Comprehensive assessment of the specific compounds present in combustion processes. Volume 1: Pilot study of combustion emissions variability
[PB84-140870] 11 p1630 N84-20665
MELSA, J. L.
Real-time implementation of a speech digitization algorithm combining time-domain harmonic scaling and adaptive residual coding, volume 1
[AD-A135232] 08 p1150 N84-17485
Real-time implementation of a speech digitization algorithm combining time-domain harmonic scaling and adaptive residual coding, volume 2
[AD-A135233] 08 p1150 N84-17486
MELSON, G. B.
Supplemental grounding of extending EMP collectors
[AD-A131255] 01 p0067 N84-10440
MELTON, J. G.
Electrical design of a high current density air-core reversed-field pinch ZTP
[DE84-004321] 10 p1586 N84-20395
Toroidal magnetic field system for 2-MA reversed-field pinch experiment
[DE84-004322] 10 p1586 N84-20399
Observations of ramped current operation in ZT-40M
[DE84-015076] 23 p3829 N84-34286
MELTON, R. A.
COBOL automated verification system, implementation phase
[AD-A141063] 19 p3074 N84-29504
MELTZ, G.
Research and development of subsurface acoustic wave device configurations for sensor applications
[AD-A133659] 05 p0742 N84-14877
MELVILLE, J. G.
Design, performance, and analysis of an aquifer thermal-energy-storage experiment using the doublet-well configuration
[DE84-001811] 10 p1529 N84-20019
MELZER, E.
The new calibration tank for engine simulators at DFVLR Goettingen 14 p2099 N84-23593
MELZER, H.
Simulation procedure for the calculation of aircraft noise 19 p3100 N84-29692
MELZER, H. J.
High power bogie for 350 km/h. Design and definition
[MBB-UD-376-OE] 05 p0687 N84-14518
MEMORY, J. D.
Effects of high energy radiation on the mechanical properties of epoxy graphite fiber reinforced composites
[NASA-CR-173293] 08 p1122 N84-17292
MEN, A. V.
High-sensitivity correlation receiver for radio interferometry 18 p2823 N84-27924
MENA, A. L.
The calibration and flight test performance of the space shuttle orbiter air data system 01 p0026 N84-10165
MENALDI, J. L.
On the control of a linear stochastic system with finite horizon
[AD-P002949] 14 p2198 N84-24189
MENARD, T.
Theoretical chemical calculations on molecules of air force interest
[AD-A137203] 10 p1576 N84-20326
MENCHI, E.
Precise measurements of bistability in a CO/sub 2 laser with intracavity saturable absorber 14 p2238 N84-24431
MENCKE, D.
Electronic measuring instruments for mixtures of fluids
[PTB-ME-40] 02 p0225 N84-11474
MENDEL, C. W., JR.
Ampfion hybrid diodes on hydramite and PBFA-1
[DE83-017824] 03 p0448 N84-12945
Hybrid ion diode theory and computations
[DE84-000102] 04 p0610 N84-14029
Linear stability of general magnetically insulated electron flow
[DE84-010148] 19 p3018 N84-29138
MENDELEV, V. A.
Experimental study of immiscibility in metallurgical systems
[BLL-M-35553-(5828.4)] 17 p2621 N84-26775
MENDELSOHN, M. H.
Effect of oxygen monolayer coverages on titanium sputtering yields as determined by simultaneous laser fluorescence and Auger measurements
[DE83-014716] 01 p0048 N84-10296
MENDELSON, A.
Effect of crack curvature on stress intensity factors for ASTM standard compact tension specimens
[NASA-CR-168280] 02 p0231 N84-11513
Three-dimensional analysis of chevron-notched specimens by boundary integral method
[NASA-CR-172225] 04 p0547 N84-13607
MENDELZON, A. O.
Notions of dependency satisfaction
[AD-A135303] 08 p1211 N84-17902
MENDENHALL, M. R.
Prediction of vortex shedding from circular and noncircular bodies in supersonic flow
[NASA-CR-3754] 08 p1096 N84-17129
A study of prediction methods for the high angle-of-attack aerodynamics of straight wings and fighter aircraft
[NASA-CR-3764] 08 p1097 N84-17131
MENDES, R. V.
A variational formulation for dissipative maps
[REPT-81] 20 p3283 N84-30846
MENDEZ, R. H.
Mass loss from the central star of NCG 3242 24 p3977 N84-35194
MENDILLO, M.
Periodicities in the occurrence of aurora as indicators of solar variability 03 p0470 N84-13093
Rocket exhaust effects as active space plasma experiments of opportunity 05 p0640 N84-14211
Optical, radio and computer simulation studies of the Brazil ionospheric modification experiment of 8 September 1982
[AD-A135143] 08 p1186 N84-17731
MENDONCA, F. J.
Rise in the frequency of cloud cover in LANDSAT data for the period 1973 to 1981
[E84-10047] 04 p0553 N84-13640

MENDOZA, A. A. B.
Identification and estimation of the area planted with irrigated rice based on the visual interpretation of LANDSAT MSS data
[E84-10164] 17 p2710 N84-27258
MENDOZA, J. P.
A numerical simulation of three-dimensional flow in an adaptive wall wind tunnel
[NASA-TP-2351] 19 p2958 N84-28750
MENEGHINI, R.
Application of the Lienard-Wiechert solution to a lightning return stroke model
[NASA-TM-85082] 02 p0253 N84-11658
MENENDEZ, A. N.
Study of unsteady turbulent boundary layers
[AD-A138156] 12 p1816 N84-21837
Measurement of skin friction in unsteady boundary layers using a flush-mounted hot-film gage
[PB84-197995] 22 p3596 N84-32773
MENG, C. I.
Large space instrumentation to measure the interaction between space structures and the environment
[AD-A129990] 01 p0028 N84-10179
A study of low energy electron precipitations and auroral phenomena by using the USAF polar orbiting satellites
[AD-A137686] 11 p1682 N84-20979
MENG, J.
Local networking with intelligent nodes
[DE83-014900] 01 p0127 N84-10832
Interactive parallel processor for data analysis
[DE84-004311] 10 p1564 N84-20250
Multiplication of processing capacity with a parallel processor array
[DE84-004654] 11 p1711 N84-21156
MENG, L.
The new method of implementation for ternary logic system
[AD-P002332] 14 p2190 N84-24123
MENG, P. R.
An overview of the NASA rotary engine research program
[NASA-TM-83699] 19 p2965 N84-28791
MENGELKAMP, H. T.
Windpowered generators. Test field Pellworm. The test of the Aeroman system
[GKSS-83-E-15] 02 p0243 N84-11589
Wind energy test field Pellworm: Tests of the plant Bruemmer BW 120S
[GKSS-83-E-42] 13 p2010 N84-23035
Meteorological investigations at the wind test site Pellworm
[GKSS-83-E-61] 13 p2018 N84-23082
Measuring and data evaluation systems at the wind test site Pellworm
[GKSS-84-E-12] 23 p3791 N84-34044
MENGES, E. S.
Assessment of temporal dynamics of selected terrestrial carbon pools
[DE84-009850] 19 p3059 N84-29410
MENGES, G.
Polyester fiber reinforcement of thermosetting molding compounds
[BMFT-FB-T-83-155] 05 p0661 N84-14342
MENGHE, L.
YIDOYU-1: Computer system for optimal wing design
01 p0118 N84-10768
MENGJUE, L.
YIDOYU-1: Computer system for optimal wing design
01 p0118 N84-10768
MENIEL, P.
Stress corrosion resistance of Z 6 CN 18-9 steel: Influence of surface treatment (shot peening, polishing)
[BLL-RISLEY-TR-4777-(9091.9F)]
01 p0041 N84-10265
MENIETTI, J. D.
Low frequency electric and magnetic noise along the auroral field lines
[NASA-CR-173641] 17 p2727 N84-27358
MENIROVSKIY, Y. V.
Planning of plates reinforced with equally stressed fibers of constant cross section 24 p3872 N84-34540
MENKE, K.
An example of computer aided generalization of TK 25 20 p3227 N84-30504
MENL, B.
Implementing microprocessor technology in aircraft electrical power generating system control
03 p0336 N84-12185
MENNESSIER, M. O.
A cluster analysis of visual and near-infrared light curves of long period variable stars 09 p1409 N84-19210
MENOLD, R.
Physical and chemical investigations on real catalyst surfaces
[BMFT-FB-T-83-273] 13 p1958 N84-22729
MENON, P. K. A.
Climb-dash real-time calculations
[NASA-CR-173184] 07 p0943 N84-16115
Optimal symmetric flight with an intermediate vehicle model 07 p0943 N84-16117
Optimal symmetric flight with an intermediate vehicle model
[NASA-CR-173181] 07 p0951 N84-16167
MENOWN, H.
Evaluation of bidirectionally conducting thyratrons for pulsed excimer lasers
[DE84-013890] 22 p3602 N84-32818
MENSHCHIKOV, A. P.
Human stomach motor and evacuatory functions during antiorthostatic hypokinesia 20 p3253 N84-30649
MENU, J. P.
Visual perception in systems management in aeronautics 22 p3632 N84-33017
MENUSHENKOV, V. P.
Phase transformations and coercive force of alloys based on the compound SmCo5
[BLL-M-35117-(5828.4)] 01 p0040 N84-10255
MENYUK, N.
Laser remote sensing of atmospheric pollutants
[AD-A130259] 01 p0103 N84-10670
MENZEL, D. W.
Coordination: Southeast Continental Shelf studies
[DE84-004165] 11 p1692 N84-21034
MENZEL, W. P.
The advantages of sounding with the smaller detectors of the VISSR atmospheric sounder
[NOAA-TM-NESDIS-6] 20 p3240 N84-30571
Evaluation and development of new VAS remote sensing algorithms 24 p3933 N84-34894
MENZIES, R. T.
Spectrophone stabilized laser with line center offset frequency control
[NASA-CASE-NPO-15516-1] 13 p1994 N84-22943
Aerosol backscatter lidar calibration and data interpretation
[NASA-CR-173738] 18 p2845 N84-28067
MERAKOS, L.
Random multiple access methods in multi-user communication systems 22 p3571 N84-32616
MERCER, G.
FAA (Federal Aviation Administration) aviation forecasts -Fiscal Years 1984-1995
[AD-A138759] 13 p1929 N84-22549
MERCER, M. B.
Dynamic overstresses in fibrous polymeric materials
[DE84-012605] 21 p3372 N84-31394
MERCERET, F. J.
Empirical study of HF air to ground communications at the Research Facilities Center based on radio logs, 1973 - 1982
[PB83-222588] 01 p0068 N84-10447
Calibration of meteorological measurements made by NOAA (National Oceanic and Atmospheric Administration) WP3D aircraft, 1983
[PB84-127463] 10 p1541 N84-20099
Study of NOAA (National Oceanic and Atmospheric Administration) WP-3D terminal navigation errors based on navigators logbooks: 1977-1983
[PB84-155738] 17 p2605 N84-26692
MERCIER, O. L.
A nonlinear control law for piloting aircraft in the air-to-ground attack phase 03 p0317 N84-12071
Robustness quantification for nonlinear sampled-data systems with dynamic multiplicative perturbations
16 p2476 N84-25871
MERCK, W. F. H.
Two-dimensional MHD boundary layers in argon-cesium plasmas
[EUT-83-E-139] 10 p1587 N84-20400
MEREDITH, B. D.
High-speed digital signal normalization for feature identification
[NASA-TM-85719] 02 p0270 N84-11767
MEREDITH, R. J.
Methodology for integration of HVDC links in large ac systems. Phase 1: Reference manual
[DE83-902302] 01 p0073 N84-10476
MERGES, V.
Operational demonstration of a field of high performance flat plate collectors with isothermal heat transport
[BMFT-FB-T-83-2] 15 p2362 N84-25171
MERIWETHER, J. W., JR.
Ground-based observations of equatorial thermosphere dynamics with a Fabry-Perot interferometer
[NASA-CR-174005] 24 p3933 N84-34897
MERKEY, P.
Optimum cyclic redundancy codes for noisier channels
10 p1475 N84-19638
GCF compatibility with packets and data compression
22 p3575 N84-32641
MERKHOFER, M. W.
A comparative evaluation of quantitative decision-making approaches
[PB83-214106] 01 p0159 N84-11050
A comparative evaluation of quantitative decision-making approaches
[PB83-214114] 01 p0159 N84-11051
MERKINE, L.
The stability of atmospheric fields induced by localized topography and heat sources
[AD-A141357] 19 p3058 N84-29400
MERKISHIN, G. V.
Use of space-diverse photoreceivers for analysis of interference patterns 21 p3377 N84-31429
MERKLE, C. L.
The effects of porous material on microbubble skin friction reduction
[AD-A143401] 22 p3593 N84-32756
MERKLE, D. H.
Fundamental properties of soils for complex dynamic loadings: Dynamic constitutive modeling of sandy soils
[AD-A131284] 02 p0206 N84-11341
Fundamental properties of soils for complex dynamic loadings; dynamic constitutive model fundamentals
[AD-A139358] 14 p2134 N84-23791
MERKLE, G.
Theoretical and experimental investigations for the construction of a continuous, RF-excited waveguide CO2-laser with high frequency tunability and high output power
[IPF-83-1] 14 p2151 N84-23889
MERKLE, J. G.
Evaluations of the Irwin (ALPHA) sub Ic adjustment for small specimen fracture toughness data
[DE84-003292] 10 p1518 N84-19936
MERKULOVA, N. A.
Activity of respiratory system during laser irradiation of brain structures 17 p2742 N84-27409
MERLINI, T.
Fast flutter clearance by parameter variation
02 p0172 N84-11135
MERLINO, R. L.
Observations of nonlinear behavior in a low-pressure discharge column
[AD-A132321] 04 p0605 N84-13996
Hysteresis in a low-pressure argon discharge, revision
[AD-A134387] 07 p1076 N84-16995
A laboratory investigation of the high-frequency Farley-Buneman instability
[NASA-CR-173435] 16 p2525 N84-26215
Production of plasma with variable, radial electric fields
[NASA-CR-173434] 16 p2558 N84-26413
MERMOZ, H. F.
New principle of array processing in underwater passive listening 09 p1401 N84-19152
MERON, M.
Simultaneous electron capture and excitation in ion-atom collisions
[DE83-005799] 06 p0910 N84-15907
Improved four-stage accel-decel production of low-energy stripped heavy ions
[DE83-005791] 06 p0910 N84-15908
Accelerator-based atomic physics experiments with photon and ion beams
[DE84-010789] 20 p3296 N84-30928
MERONEY, R. N.
Heat transfer effects during cold dense gas dispersion
[PB84-162999] 14 p2177 N84-24043
MERONYK, E.
Development of concepts for corrosion assessment and evaluation of underground pipelines
[AD-A140633] 17 p2623 N84-26788
MERRIAM, S.
Videodisc premastering facility: Technical evaluation
[PB84-135821] 11 p1661 N84-20840
MERRIGAN, M. A.
Performance demonstration of a high-power space-reactor heat-pipe design
[DE83-012688] 01 p0145 N84-10952
Initial evaluation of molybdenum-rhenium alloy for reactor heat pipes
[DE83-012687] 01 p0145 N84-10955
Heat pipe technology issues
[DE84-011384] 20 p3187 N84-30248
Heat pipe technology development for high temperature space radiator applications
[DE84-012444] 21 p3402 N84-31581
Heat pipe development status
[DE84-012580] 21 p3402 N84-31583
MERRILL, D. R.
Naval aviation IMA repair capability: A readiness to resources approach
[AD-A140465] 16 p2434 N84-25612

MERRILL, R. G.
NIMBUS-7 SBUV (Solar Backscatter Ultraviolet) observations of solar UV spectal irradiance variations caused by solar rotation and active-region evolution for the period November 7, 1978 - October 26, 1979
[PB84-106166] 08 p1188 N84-17743
High frequency radar software reference manual for product one
[PB84-194885] 22 p3578 N84-32665
MERRILL, R. K.
Flight testing the Rotor Systems Research Aircraft (RSRA)
[NASA-TM-85852] 04 p0483 N84-13177
MERRILL, R. P.
Interactions of vibrationally excited molecules with solid surfaces
[AD-A133449] 06 p0915 N84-15950
MERRILL, W. C.
A real-time implementation of an advanced sensor failure detection, isolation, and accommodation algorithm
[NASA-TM-83553] 04 p0477 N84-13140
HYTESS: A hypothetical turbofan engine simplified simulation
[NASA-TM-83561] 07 p0954 N84-16184
Identification of multivariable high-performance turbofan engine dynamics from closed loop data
11 p1617 N84-20580
Sensor failure detection for jet engines using analytical redundance
[NASA-TM-83695] 15 p2262 N84-24585
Real-time simulation of an automotive gas turbine using the hybrid computer
[NASA-TM-83593] 16 p2569 N84-26484
MERRIMAN, D. B.
ACSL (Advanced Continuous Simulation Language) simulation of a third order Butterworth filter using implementations derived from both Z and S domain representations
[AD-A140302] 16 p2545 N84-26335
MERRIMAN, M. P.
A comparison of two air defense command and control models
[AD-P002876] 13 p1977 N84-22837
MERRIMAN, T. L.
High pressure oxygen turbopump bearing cage stability analyses
[NASA-CR-170991] 10 p1502 N84-19815
Measurements of elastohydrodynamic film thickness, wear and tempering behavior of high pressure oxygen turbopump bearings
[NASA-CR-171008] 13 p1997 N84-22960
MERRITT, B. T.
An FET full-bridge switcher for inductorless capacitor charging for Nova
[DE83-018005] 04 p0528 N84-13471
Infant-mortality testing of high-energy-density capacitors used on Nova
[DE83-018027] 04 p0610 N84-14028
Novette pulse-power-system description
[DE83-018185] 06 p0918 N84-15968
Design and construction of large capacitor banks
[DE84-002790] 07 p0998 N84-16472
MERRITT, J. A.
Laser-induced decomposition of some allyl halides
[AD-A140426] 16 p2463 N84-25786
CO2 laser decomposition of the alkyl phosphites
21 p3373 N84-31402
MERRY, C. J.
Integration of LANDSAT land cover data into the Saginaw River basin geographic information system for hydrologic modeling
[AD-A140185] 16 p2510 N84-26106
MERSCH, G.
Comparative study of period determination methods
09 p1410 N84-19216
MERSCHAT, C. F.
Geologic map and mineral resources summary of the Farner Quadrangle, Tennessee and North Carolina
[DE83-902886] 02 p0240 N84-11576
MERSEREAU, R. M.
Multichannel linear predictive coding of color images
[AD-A142260] 19 p3008 N84-29069
An iterative method for restoring noisy blurred images
[AD-A142201] 19 p3016 N84-29122
A maximum-likelihood approach to image segmentation by texture
[AD-A142323] 19 p3090 N84-29619
MERSHAD, E. A.
Milliwatt generator heat source
[DE84-008207] 15 p2407 N84-25447
MERSON, A. L.
Scientists discuss increased production with fewer workers 01 p0055 N84-10356
MERTE, H., JR.
Modeling of zero gravity venting
[NASA-CR-173503] 14 p2145 N84-23854
MERTEN, C. W.
Thermal shock: High temperature high energy rate testing
[DE84-014147] 22 p3612 N84-32886
MERTENS, H. W.
Age, altitude, and workload effects on complex performance
[AD-A133594] 07 p1047 N84-16793
MERTI, F. E.
MM and T: Ceramic metal substrates for hybrid electronics
[AD-A132514] 04 p0505 N84-13313
MM&T-Ceramic metal substrates for hybrid electronics: Handbook
[AD-A140689] 17 p2623 N84-26790
MERTOL, A.
The predicted impact of linear roof apertures on the energy performance of office buildings
16 p2514 N84-26133
Computer program for studying turbulent convection in buildings 16 p2517 N84-26155
MERTZ, F. C.
Assessment of Thematic Mapper band-to-band registration by the block correlation method
20 p3210 N84-30396
MERZBACHER, C. I.
Structure of glasses containing transition metal ions
[DE84-004211] 10 p1468 N84-19591
MESCALL, J.
Materials implications of advanced thermal and kinetic energy threats 10 p1508 N84-19672
MESDCHER, W.
Automatic generation of 3-D envelopes
12 p1872 N84-22197
MESERVEY, R. H.
Synthesis and characterization of superconducting electronic materials
[AD-A144137] 24 p3966 N84-35116
MESHCHANOV, V. P.
Optimum synthesis of stepped second class phase-shifters 22 p3566 N84-32587
MESHCHERYAKOV, G. Y.
Change in surface of molybdenum trioxide during its evaporation in an inert atmosphere
[BLL-M-35552-(5828.4)] 17 p2621 N84-26773
MESHII, M.
Effect of point defects on mechanical properties of metals
[DE83-014989] 01 p0046 N84-10297
MESITE, P. L.
Optical propagation and communication
22 p3683 N84-33355
MESSENGER, M.
Interactive Hazardous Materials Information System (HMIS): Description and assessment
[AD-A138329] 12 p1919 N84-22500
MESSERSCHMID, E.
Carrier acquisition and tracking by a COSTAS-loop with automatic frequency control
[DFVLR-FB-83-24] 08 p1108 N84-17202
MESSICK, D. L.
Surface analysis of graphite fiber reinforced polyimide composites
[NASA-TM-85700] 02 p0188 N84-11220
Surface analysis in composite bonding
[NASA-CR-175353] 07 p0967 N84-16264
MESSIDORO, P.
Development of a spacecraft infrared test technique as an alternative to solar simulation: First steps on L-SAT thermal model 10 p1439 N84-19398
MESSIER, D. R.
Characterization of ceramic vane materials for 10KW turboalternator
[AD-A132505] 04 p0486 N84-13196
MESSIER, R.
Safety eye protection through use of fast acting optical switching
[AD-A138582] 13 p2023 N84-23120
MESSINA, R.
New polyconjugated oxidation-reduction polymers, as well as a method and apparatus for electrochemical regeneration
[DE84-002813] 06 p0810 N84-15276
MESSING, G. L.
Silicon carbide fiber/mullite composites from rapidly solidified aluminosilicate powder
[AD-A140529] 16 p2469 N84-25825
MESSMER, R. P.
Many electron effects in the photoelectron spectra of condensed nitric oxide
[AD-A138130] 12 p1791 N84-21681
Theoretical studies of metal clusters and of chemisorption on metals
[AD-A138175] 12 p1791 N84-21683
MESTRE, A.
Design of a combustion chambers with reverse flow for small gas turbines 15 p2290 N84-24742
MESTREAU, P.
Balloon test project: Cosmic Ray Antimatter Calorimeter (CRAC)
[NASA-TM-77461] 23 p3750 N84-33772
MESZAROS, S. P.
Self-consistent models for Coulomb heated X-ray pulsar atmospheres
[NASA-TM-85087] 02 p0307 N84-12012
A geographic comparison of selected large-scale planetary surface features
[NASA-TM-86147] 22 p3679 N84-33320
METCALF, J. I.
A polarization diversity radar data processor
[AD-A134011] 05 p0666 N84-14382
Simulation and interpretation of polarization diversity radar spectral functions
[AD-A132622] 05 p0670 N84-14402
METCALF, W.
Research in elementary particle physics
[DE84-006130] 12 p1903 N84-22392
METCALFE, R. W.
Direct numerical simulation of reacting flows
11 p1611 N84-20549
Direct simulations of chemically reacting turbulent mixing layers
[NASA-CR-174640] 16 p2450 N84-25710
METELNIKOVA, I. V.
Optimum synthesis of stepped second class phase-shifters 22 p3566 N84-32587
METGES, P. J.
Contribution of standard X-ray to cardiovascular exploration during the clinical examination of flying personnel 11 p1700 N84-21088
METRY, A. A.
Installation restoration general environmental technology development. Task 3: Guidelines for in-place closure of dry lagoons. Volume 2: Evaluation of in-place closure technologies
[AD-A140655] 17 p2724 N84-27338
METSNER, Y. P.
Automatic measurement of bandwidth of microwave resonators 17 p2638 N84-26880
METTING, N. F.
Develop real-time dosimetry concepts and instrumentation for long-term missions
[NASA-CR-171809] 22 p3599 N84-32791
METZ, P. D.
Ground coupled heat-pump-system experimental results
[DE83-014011] 03 p0373 N84-12427
Photovoltaic-electrolyzer system transient simulation results
[DE84-010217] 20 p3149 N84-29965
Activities at the Brookhaven National Laboratory integrated test bed for advanced hydrogen technology
[DE84-010226] 21 p3374 N84-31409
METZ, P. R.
Achieving the benefits of modular avionics design
[AD-P003562] 21 p3336 N84-31167
METZ, R. N.
Radiating dipole model of interference induced in spacecraft circuitry by surface discharges
[NASA-TP-2240] 07 p0964 N84-16247
METZER, D. W.
An investigation of experimental techniques for obtaining particulate behavior in metallized solid propellant combustion 13 p1947 N84-22659
METZGER, M. A.
High altitude maneuver control tests in the NSWC (Naval Surface Weapons Center) hypervelocity wind tunnel
[AD-A136105] 09 p1253 N84-18178
METZLER, M. D.
Study of spectral/radiometric characteristics of the thematic mapper for land use applications
[E84-10058] 07 p1020 N84-16615
Understanding and utilization of Thematic Mapper and other remotely sensed data for vegetation monitoring
[E84-10150] 16 p2508 N84-26098
Scan-angle and detector effects in Thematic Mapper radiometry 20 p3209 N84-30386
MEULENBERG, A.
Thin N-I-P radiation resistant solar cells
[NASA-CR-168284] 06 p0873 N84-15682
Structurally stable, thin silicon solar cells
19 p3044 N84-29309
MEUNIER, T. K.
Glacological and geological studies of Antarctica with satellite remote sensing technology
14 p2163 N84-23956
MEURER, B.
Nuclear Magnetic Resonance (NMR) study of glass fiber-epoxy resin composites in the solid state
21 p3358 N84-31299

MEURISCH, H.
An investigation of the reproduction of the general topographic map 1:200,000 in shortened scale with a digital raster data processing system 20 p3227 N84-30505
MEUSEL, K. H.
High power bogie for 350 km/h. Design and definition [MBB-UD-376-OE] 05 p0687 N84-14518
MEUSEMANN, H.
Kinematics of the structure and morphology during surface reactions between transition metals and molecular hydrogen 06 p0816 N84-15317
MEUSER, R. B.
The technology of superconducting accelerator dipoles
[DE83-016470] 02 p0299 N84-11963
LBL program of 1 meter long, 50 mm diameter bore, dipoles with fields greater than 8 tesla
[DE84-002902] 07 p1073 N84-16973
Effect of manufacturing errors on field quality of the LBL SSC dipoles
[DE84-009224] 19 p3033 N84-29238
MEYE, G.
Welding of components made of the aluminum cast alloy A357 14 p2094 N84-23561
MEYER
Development of a prototype cathode sputtering plant [BMFT-FB-T-83-251] 10 p1472 N84-19617
MEYER-ROUX, J.
Land use inventory and statistical sampling in agriculture 08 p1176 N84-17658
MEYER-VERNET, N.
Measurement of macroscopic plasma parameters with a radio experiment: Interpretation of the quasi-thermal noise spectrum observed in the solar wind 03 p0470 N84-13096
MEYER, A.
Computer aided ultrasonic testing
[CETIM-15-H-404] 21 p3416 N84-31661
MEYER, A. E.
Mitigation of biofouling using coatings
[DE84-006112] 11 p1683 N84-21041
MEYER, A. H.
Detection of cracks on highway pavements
[PB83-236204] 04 p0516 N84-13389
MEYER, B.
Physical modeling of the champagne effect
[DE84-001813] 04 p0516 N84-13388
MEYER, D.
A comparative thermodynamic analysis of impurity incorporation in vapor phase epitaxial InP and GaAs
[AD-A135739] 09 p1395 N84-19113
Wave propagation in elastic-viscoplastic bodies
[REPT-23] 19 p3034 N84-29242
MEYER, E. R.
Spatial image processing masks from frequency domain specifications
[AD-P003126] 16 p2534 N84-26267
MEYER, F.
Analysis of parametrically excited large vibration systems
[AD-A143283] 22 p3611 N84-32879
MEYER, F. K.
New data on long term stabilization of polyethylene for telecommunication wire insulation 11 p1721 N84-21227
MEYER, G.
Nonlinear systems approach to control system design 11 p1618 N84-20585
MEYER, G. G. L.
Analysis of an error detection scheme for parallel computations
[AD-A134819] 08 p1152 N84-17496
Testability of interconnection structures
[AD-A135431] 08 p1168 N84-17607
Analysis of an error masking scheme for parallel computations
[AD-A136372] 09 p1374 N84-18971
An approach to reliable parallel data processing 09 p1402 N84-19157
Strict redundancy schemes for non-sequential detector reliability. Part 1: Analysis
[AD-A141875] 19 p3006 N84-29055
MEYER, H. R.
Genera use of CBN in tool grinding: Technology and economics
[CSIR-TRANS-1688] 01 p0056 N84-10367
Economical grinding of steel and sintered carbides using superhard abrasives and high temperature-resistant bonds
[CSIR-TRANS-1744] 22 p3563 N84-32562
MEYER, H. S.
Guidelines for evaluation of commercial fossil fuels gasification concepts
[PB84-132570] 09 p1291 N84-18429
MEYER, J. E.
High-field Tokamaks with DD-DT operation and tritium-breeding requirements
[DE83-013092] 02 p0296 N84-11939
MEYER, J. J. C.
On specifying sets of integers
[MC-IW-237/83] 07 p1066 N84-16919
MEYER, L.
Scientific and technical information system for the Washington State Legislature
[PB84-100650] 08 p1241 N84-18112
MEYER, P. C.
Multipole monolithic Surface Acoustic Wave (SAW) resonator filters
[AD-A136123] 09 p1309 N84-18561
MEYER, P. J.
Statistical structure of convective periods derived from satellite ground based data 24 p3931 N84-34882
MEYER, R.
Design aspects of TV-SAT/TDF-1 heat pipes 10 p1440 N84-19404
MEYER, R. B.
Optically-induced bistability in a nematic liquid crystal 14 p2234 N84-24401
MEYER, R. C.
Control definition study for advanced vehicles
[NASA-CR-3738] 07 p0958 N84-16212
MEYER, R. E.
Note on evaporation in capillaries
[AD-A132850] 05 p0650 N84-14275
Note on the displacement effect in a spinning fluid
[AD-A141599] 19 p3024 N84-29175
Quantum optics and photonics 22 p3682 N84-33344
MEYER, R. G.
Research in monolithic, signal-processing circuits
[AD-A143204] 22 p3586 N84-32709
MEYER, R. R., JR.
The use of oil for in-flight flow visualization
[NASA-TM-84915] 05 p0627 N84-14122
Real-time pilot guidance system for improved flight test maneuvers
[NASA-TM-84922] 07 p0952 N84-16176
MEYER, R., JR.
In-flight load testing of advanced shuttle thermal protection systems
[NASA-TM-86024] 08 p1115 N84-17250
MEYER, S. D.
Tape joint design guidelines
[DE84-002052] 05 p0688 N84-14522
MEYERHOFF, D.
Computer simulation studies of sputtering from clean tungsten and nitrogen reacted tungsten and molybdenum surfaces
[AD-A140900] 17 p2769 N84-27581
MEYERHOFF, J. L.
Positive and negative reinforcement effects on behavior in a three-person microsociety
[NASA-CR-173164] 09 p1363 N84-18902
Behavioral and biological effects of changes in group size and membership
[NASA-CR-173801] 19 p3067 N84-29457
MEYERHOFF, S.
Applications of the GPS (Global Positioning System) Geodetic Receiver System
[AD-A140567] 17 p2605 N84-26688
MEYEROVICH, G. A.
Laser screens of ZnSe produced by bridgeman method 12 p1787 N84-21658
MEYERS, A.
Some remarks on the definition of material isotropy 17 p2761 N84-27539
MEYERS, D. G.
Rheoceptive mediators of graviperception in a water flea: Morphological implications of antennal-socket setae in daphnia magna 09 p1360 N84-18883
MEYERS, K. A.
A study of depletion in low-velocity diffuse interstellar gas 03 p0462 N84-13042
MEYERS, S. C.
The electron Echo 6 mechanical deployment systems 15 p2348 N84-25094
MEYN, E. H.
Lewis Research Center spin rig and its use in vibration analysis of rotating systems
[NASA-TP-2304] 15 p2260 N84-24578
MEYNART, R.
Laser speckle velocimetry in fluid dynamics applications 16 p2491 N84-25979
MEYSTRE, P.
Radiation pressure induced optical bistability 14 p2241 N84-24457
MEYZAUD, Y.
Heat treatment and residual austenite
[CSIR-TRANS-1704] 08 p1130 N84-17349
MEZGA, L. J.
Role of trench caps in the shallow land burial of low level wastes
[DE84-011824] 20 p3298 N84-30944
MEZZANOTTE, D. A., JR.
Helium damage in austenitic stainless steels
[DE83-017494] 03 p0355 N84-12309
MEZZINA, A.
Overview of US activities in IEA hydrogen technology. Annex 4: Electrolytic hydrogen production
[DE83-013064] 01 p0053 N84-10344
Water vapor electrolysis: Systems considerations and cost/performance benefits
[DE84-007389] 21 p3374 N84-31410
Rationale for US DOE energy storage program in hydrogen technology
[DE84-010225] 21 p3374 N84-31411
Summary status of advanced water electrolysis and hydrogen storage/transport research and development
[DE84-012908] 22 p3547 N84-32456
MIAO, W. L.
Aeroelastic considerations in the design of high speed rotors 02 p0171 N84-11128
MICA, G.
Intersatellite links: Requirements for future missions and limitations from spacecraft resources 24 p3904 N84-34723
MICALIZZI, J.
The structure of processing resource demands in monitoring automatic systems
[AD-P003319] 18 p2910 N84-28455
MICCHELLI, C. A.
On the optimal approximation rates for criss-cross finite element spaces
[PREPRINT-622] 15 p2397 N84-25378
MICCI, M. M.
Direct measurement of high frequency solid propellant response functions 13 p1945 N84-22649
MICHAEL, C. J.
Energy efficient engine fan component detailed design report
[NASA-CR-165466] 18 p2795 N84-27737
MICHAEL, G. A.
Supercomputers: The next ten years. A user's view
[DE84-011072] 20 p3267 N84-30727
MICHAEL, I.
Trapped-proton energy spectrum determination (M0002-1) 15 p2276 N84-24663
Proceedings of the Air Force Geophysics Laboratory Workshop on Natural Charging of Large Space Structures in Near Earth Polar Orbit
[AD-A134894] 16 p2521 N84-26185
MICHAEL, P.
Atmospheric Sciences Division
[DE83-014429] 01 p0098 N84-10639
Brookhaven National Laboratory Coastal Meteorology Program, 1972-1983
[DE84-008584] 18 p2891 N84-28349
MICHAEL, R.
Evaluation of LANDSAT-D Thematic Mapper performance as applied to hydrocarbon exploration
[E84-10154] 19 p3038 N84-29275
MICHAELIS, P. R.
Development of a computer-assisted simulation of tactical voice communications. Phase 1: Conceptual design
[AD-A143036] 21 p3386 N84-31492
MICHAELIS, W.
Hydrogen chloride measurements with a Differential Absorption and Scattering (DAS) lidar in the marine atmosphere 23 p3779 N84-33965
State-of-the art Differential Absorption and Scattering (DAS) lidar for SO2 and NO2 23 p3780 N84-33966
MICHAELS, A. I.
Thermal energy storage in molten-salt systems for solar central receivers: The federal role in research and development
[DE84-007433] 15 p2364 N84-25185
MICHAELSON, S. M.
Microwaves, hyperthermia, and human leukocyte function
[PB83-225375] 01 p0115 N84-10746
Microwaves and human leukocyte function: Exposure of human mononuclear leukocytes to microwave energy pulse-modulated at 16 Hz or at 60 Hz
[AD-A141071] 19 p3065 N84-29443
MICHALEK, J. E.
Matched survival analysis (MSURV)
[AD-A131337] 02 p0284 N84-11861
Linear rank procedures for matched observations
[AD-A131338] 02 p0284 N84-11862
MICHALEK, K.
Photovoltaic-electrolyzer system transient simulation results
[DE84-010217] 20 p3149 N84-29995

MICHALOVIC, J. G.
Laboratory investigation of the fate of diesel emissions in the atmosphere
[PB84-118496] 09 p1343 N84-18772

MICHALSKE, T. A.
Stress corrosion of ceramic materials
[AD-A136729] 10 p1467 N84-19581

MICHALSKI, D. E.
An improved logarithmic amplifier circuit for PDS microdensitometers 18 p2841 N84-28034

MICHALSKI, K. A.
An analysis of the coax-fed monopole in a general medium
[AD-A137981] 12 p1811 N84-21805

MICHALSKI, R. S.
Machine learning. Part 1: A historical and methodological analysis
[AD-A131424] 02 p0278 N84-11824

MICHAU, J. L.
The experiment Phenomena Induced by Charged Particle Beams (PICPAB) on board Spacelab 1 05 p0641 N84-14220

MICHEL, A.
Thermohydraulic applications of liquid metals in the non-nuclear field 06 p0843 N84-15501

MICHEL, L.
Radiation and particle emission from a 1.6 kJ plasma focus 10 p1581 N84-20362

MICHEL, R. W.
Combustion performance and heat transfer characterization of LOX/hydrocarbon type propellants, volume 1
[NASA-CR-171713] 02 p0202 N84-11319
Combustion performance and heat transfer characterization of LOX/hydrocarbon type propellants
[NASA-CR-171712] 02 p0205 N84-11335

MICHEL, S.
Thermal test data analysis 10 p1447 N84-19450

MICHEL, U.
Definition, sources and lowest possible levels of wind-tunnel turbulence 14 p2096 N84-23576

MICHELIN, J. L.
Strapdown inertial systems for tactical missiles using mass unbalanced two-axis rate gyros 16 p2447 N84-25696

MICHELS, A. C.
Investigation of multiple scattering contributions to the depolarization of light scattered by carbon dioxide and xenon in the critical region. Part 3: Comparison between theory and experimental results
[VDW-PUBL-287] 19 p3105 N84-29731

MICHELS, D. J.
Associations between coronal mass ejections and interplanetary shocks 03 p0474 N84-13121

MICHELS, H. H.
Energetics and collision dynamics of electronic transition lasers
[AD-A135894] 09 p1322 N84-18639
Theoretical study of the radiative and kinetic properties of selected metal oxides and air molecules
[AD-A141230] 18 p2811 N84-27847

MICHENER, J. R.
The effects of internal stress and phase transformations on fracture 21 p3417 N84-31671

MICHIE, P. R.
A computer program for the evaluation of cubic splines
[BAE-BT-11729] 13 p2026 N84-23131

MICHL, J.
A stereospecific vapor detector
[AD-A139965] 15 p2337 N84-25028

MICHON, G. J.
Improved charge injection device and a focal plane interface electronics board for stellar tracking
[NASA-CR-171066] 19 p3012 N84-29092

MICKENS, R. E.
Construction of finite difference schemes having special properties for ordinary and partial differential equations
[NASA-CR-173722] 18 p2924 N84-28544

MICKEY, D. L.
2nd Joint Solar Dynamics Project data summary: Solar magnetic field, chromospheric and coronal observations near the time of the 11 June 1983 solar eclipse
[NASA-CR-173340] 09 p1417 N84-19272

MICKLEY, G. A.
Quaternary naltrexone reverses radiogenic and morphine-induced locomotor hyperactivity
[AD-P003252] 18 p2905 N84-28419

MIDDAUGH, P. R.
Ethyl alcohol fuel production from the Jerusalem artichoke
[DE83-013488] 02 p0203 N84-11326

MIDDLETON, D.
Optimum reception in non-Gaussian electromagnetic interference environments. Part 2: Optimum and suboptimum threshold signal detection in class A and B noise
[PB83-241141] 03 p0363 N84-12364
Multiple-element threshold signal detection of underwater acoustic signals in nongaussian interference environments
[AD-A140620] 17 p2763 N84-27548

MIDDLETON, E. M.
Relative accuracy assessment of LANDSAT-4 MSS and TM data for level 1 land cover inventory 20 p3217 N84-30432

MIDDLETON, M. G.
Research and development of energy-efficient appliance motor-compressors. Volume 4: Production demonstration and field test
[DE84-005083] 10 p1472 N84-19611

MIEDEMA, J. A.
Permeability of polymetric membrane lining materials
[PB84-166859] 15 p2302 N84-24818

MIEGE, B.
In situ goniometer
[CETIM-5.41.22.0] 21 p3407 N84-31609

MIELE, A.
Computational methods for static and dynamic systems and engineering applications
[PB83-227314] 01 p0135 N84-10884
Modified quasilinearization algorithm for optimal control problems with nondifferential constraints and general boundary conditions. Part 1: Theory
[PB83-226944] 01 p0135 N84-10885
Modified quasilinearization algorithm for optimal control problems with nondifferential constraints and general boundary conditions. Part 2: Examples
[PB83-226936] 01 p0135 N84-10886

MIELKE, R. R.
Airborne antenna pattern calculations
[NASA-CR-173284] 08 p1143 N84-17436
Design of multivariable feedback control systems via spectral assignment using reduced-order models and reduced-order observers
[NASA-CR-173448] 18 p2923 N84-28537

MIERS, B. T.
Review of calculations of extinction for visible and infrared wavelengths in rain
[AD-A132659] 05 p0747 N84-14906

MIESCKE, K. J.
On two-stage bayes selection procedures
[AD-A130301] 01 p0136 N84-10890
The 2-stage selection procedures based on tests
[AD-A133405] 06 p0904 N84-15871

MIESS, J.
Preliminary airworthiness evaluation of the UH-60 helicopter with T700-GE-701A engines installed
[AD-A140882] 17 p2606 N84-26696

MIETRACH, D.
Successful utilization of economic, light aluminum-casted structures in airplane construction
[VFW-31/83-O] 16 p2562 N84-26439

MIFKOVIC, P.
Microcomputer-aided A/D converters 24 p3960 N84-35074

MIGLIORI, A.
Thermoacoustic couple
[DE84-011296] 20 p3291 N84-30895

MIGLIORINI, P.
The small transmitter receiver stations in the Sirio experiment
[FUB-50-1982] 06 p0826 N84-15386

MIGNERON, R.
Backward moving Altarelli-Parisi equations for transverse momentum calculations in jets
[ILL-(TH)-84-10] 11 p1712 N84-21164

MIGNOSI, A.
The T2 cryogenic wind tunnel with self-adaptable walls at ONERA/CERT 14 p2095 N84-23567

MIGULIN, A. I.
Estimation of parameters of spray clouds
[BLL-TRANS-1571-(9022.552)] 08 p1190 N84-17752

MIGULIN, V. V.
Excitation of quasi-static magnetic fields in axial structures 20 p3287 N84-30873

MIGUNOV, V. B.
Development of a method and apparatus for quantitative assessment of the iron content of rocks and ores by means of data obtained from borehole radiometry
[BLL-M-28724-(5828.4)] 02 p0246 N84-11613

MIHALKA, A. M.
An FET full-bridge switcher for inductorless capacitor charging for Nova
[DE83-018005] 04 p0528 N84-13471
A programmable controller with overcurrent latch for constant primary peak current in capacitor-charging FET switcher for Nova
[DE83-018184] 04 p0542 N84-13569

MIHALKO, D.
Matched survival analysis (MSURV)
[AD-A131337] 02 p0284 N84-11861
Linear rank procedures for matched observations
[AD-A131338] 02 p0284 N84-11862

MIHALOEW, J. R.
A real-time, portable, microcomputer-based jet engine simulator
[NASA-TM-83550] 07 p1052 N84-16812

MIHLAN, G. J.
Walk-through survey report: Control technology for integrated circuit fabrication, Xerox Corporation, El Segundo, California
[PB83-239053] 03 p0359 N84-12333

MIJARES, R. D.
Development and flight evaluation of an augmented stability active controls concept with a small horizontal tail
[NASA-CR-165951] 19 p2967 N84-26805

MIJOVIC, J.
Fatigue-induced and time-dependent changes in thermomechanical properties of hybrid composite laminates
[PB84-126333] 09 p1277 N84-18336

MIKADO, T.
Energy loss of 24.8-MeV electrons by interacting with thick layers of C, Al, Cu, and Pb
[ETL-836] 13 p2046 N84-23277

MIKAELIAN, K. O.
Richtmyer-Meshkov instabilities in stratified fluids
[DE84-005738] 12 p1911 N84-22449

MIKATA, Y.
Stresses in and around double confocal spheroids embedded in infinite media 15 p2314 N84-24883

MIKAYELYAN, A. O.
Some specifics of influence of pore pressure on physical properties of deformable rocks 18 p2864 N84-28180

MIKESKA, A. J.
A tractable theory for nonlinear propellant response and cumulative damage predictions 20 p3142 N84-29950

MIKHAIL, A. S.
Height extrapolation of wind data
[DE83-012974] 01 p0109 N84-10706

MIKHAIL, E. M.
Simulation aspects in the study of rectification of satellite scanner data 03 p0394 N84-12571

MIKHALEV, V.
Shot to the moon from a cannon
[AD-A132554] 04 p0490 N84-13216

MIKHALEVICH, V. S.
Sequential method of minimizing nonlinear function on simplex 21 p3484 N84-32080

MIKHAYLOV, A. A.
Improvement of surface planing with diamond tool 17 p2641 N84-26897

MIKHAYLOV, F.
Robotics impact on labor productivity examined 14 p2187 N84-24104

MIKHAYLOV, G. A.
Asymptotic formulas for distribution moments in solution of radiation transfer equation in stochastic medium 17 p2708 N84-27243

MIKHAYLOV, N. N.
Concerning the possibility of employing superconducting systems for analyzing the composition of cosmic rays
[AD-A133792] 05 p0765 N84-15021

MIKHAYLOV, V. V.
Influence of natural exposure in space on physical-mechanical properties of carbon reinforced plastic 24 p3872 N84-34536
Fracture mechanism of carbon and boron reinforced plastics with shear between layers 24 p3872 N84-34539

MIKHAYLOV, Y. A.
Studies of amplifier module in Delfin Facility for heating thermonuclear plasma 20 p3289 N84-30881

MIKHEYEV, S. V.
Achievements of Kamov helicopter design bureau 17 p2598 N84-26853

MIKHLYAYEV, S. V.
Industrial optodigital inspection system 24 p3942 N84-34955

MIKKELSEN, K. L.
Performance degradation of a typical twin engine commuter type aircraft in measured natural icing conditions
[NASA-TM-83564] 04 p0483 N84-13173

MIKKELSON, D. C.
Summary of recent NASA propeller research
[NASA-TM-83733] 22 p3529 N84-32344

MIKKOLA, R. D.
Aspects of electroless nickel plating on molybdenum
[DE84-006434] 20 p3158 N84-30057
MIKKONEN, S.
Hydraulic cylinder seals in arctic conditions
[VTT-207] 14 p2155 N84-23912
MIKLASEVICH, J.
A parametric analysis of HELSTAR
[AD-A141143] 18 p2846 N84-26071
MIKROYANNIDIS, J. A.
Curing of epoxy resins with 1-Di(2-chloroethoxyphosphinyl) methyl-2,4 and -2,6-diaminobenzene
[NASA-TM-84350] 02 p0186 N84-11212
Polymers of phosphonylmethyl-2,4- and -2,6-diamino benzenes and the like
[NASA-CASE-ARC-11506-1] 03 p0356 N84-12313
Fire-retardant decorative inks for aircraft interiors
[NASA-TM-85876] 10 p1451 N84-19475
Fire resistant polymers based on 1-((dialkoxyphosphonyl)methyl)-2,4- and -2,6-diaminobenzenes
[NASA-CASE-ARC-11512-1] 11 p1637 N84-20702
Synthesis and characterization of phosphorus-containing polyamides and copolyamides based on 1methyl)-2,4- and -2,6-diaminobenzenes
[NASA-TM-85877] 22 p3543 N84-32431
MIKULAS, M. M., JR.
Stability, vibration and passive damping of partially restrained imperfect columns
[NASA-TM-85697] 04 p0548 N84-13608
Synchronously deployable truss structure
[NASA-CASE-LAR-13117-1] 07 p0964 N84-16250
A manned-machine space station construction concept
[NASA-TM-85762] 10 p1439 N84-19395
Conceptual design of a mobile remote manipulator system 19 p2962 N84-28894
Preliminary space station solar array structural design study 19 p3047 N84-29335
MIL, Y. M.
Dissociation of amino acid-DNA complexes under influence of long-wave UV light
20 p3258 N84-30680
MILAM, A. L.
Analysis of tutored videotape instructional delivery system
[AD-A133441] 07 p1050 N84-16800
MILAM, D.
Damage thresholds of thin film materials and high reflectors at 248 nm
[DE83-012663] 03 p0380 N84-12472
Characterization by X-ray topography of laser-induced damage in potassium dihydrogen phosphate crystals
[DE83-012045] 03 p0454 N84-12985
Proceedings of a Symposium on Laser Induced Damage in Optical Materials: 1981
[PB84-127869] 09 p1324 N84-18649
Laser Induced Damage in Optical Materials: 1982
[PB84-175124] 16 p2498 N84-26025
Laser damage in porous-silica antireflection films
[DE84-009535] 19 p3030 N84-29216
MILAN, D.
Raising the surface damage threshold of neutral solution processed BK-7 by pulse laser irradiation
[DE83-012660] 02 p0225 N84-11477
MILANI, M.
Effects of the radial variation of the electric field on some instabilities in lasers and in optical bistability
14 p2238 N84-24433
MILANO, R.
Energy efficient engine high-pressure turbine supersonic cascade technology report
[NASA-CR-165567] 18 p2796 N84-27739
MILANOVICH, F. P.
Process, product, and waste-stream monitoring with fiber optics
[DE83-001102] 03 p0441 N84-12899
Instrumentation for remote sensing over fiber optics
[DE84-001788] 04 p0605 N84-13991
MILAZZO, S.
A compact fully overlapping subarray antenna
[AD-P003407] 19 p3015 N84-29111
MILBERGER, W. E.
High power high voltage linear amplifier apparatus
[AD-D011028] 19 p3018 N84-29132
MILBERT, D. G.
HEART OF GOLD: Computer routines for large sparse, least squares computations
[PB84-196492] 21 p3467 N84-31987
MILDEN, M. J.
Separator qualification for aerospace nickel-cadmium cells 23 p3737 N84-33682
MILDNER, D. F. R.
Lattice dynamics of the mixed-conducting intermetallic compound alpha-LiAl
[DE83-014334] 05 p0756 N84-14959
MILEHAM, A. P.
Evaluation of a draft standard on performance specifications for health physics instrumentation
[DE83-016186] 02 p0266 N84-11750
MILEKHIN, O. Y.
Roughness of surface of Venus from bistatic radar data 19 p2975 N84-28857
MILES, C. R.
Fuel cell power systems for Navy applications
[AD-A143402] 22 p3618 N84-32923
MILES, G. A.
Practical experience of engineering software production to a structured programming standard
05 p0723 N84-14744
ESATAN: A thermal network analysis computer program 10 p1443 N84-19426
MILES, J. H.
Cross spectra between pressure and temperature in a constant-area duct downstream of a hydrogen-fueled combustor
[NASA-TM-83463] 02 p0287 N84-11885
A theoretical model for the cross spectra between pressure and temperature downstream of a combustor
[NASA-TM-83671] 23 p3821 N84-34231
MILES, J. W.
Research in the field of fluid mechanics, with emphasis on non linear waves and diffraction of linear wave
[AD-A138378] 12 p1916 N84-22485
MILES, M. H.
Electrochemical reduction reactions involving formic acid
[AD-A139479] 14 p2123 N84-23721
MILES, R. B.
Evaluation of non-intrusive flow measurement techniques for a re-entry flight experiment
[NASA-CR-172142] 04 p0489 N84-13212
Inversion of spectral lineshapes to yield collisional rate constants
[AD-A142661] 20 p3149 N84-29994
Combustion chemistry of vibrationally excited oxygen
[AD-A143791] 23 p3714 N84-33540
MILES, W. E.
A video bus for weapon system integration
06 p0771 N84-15051
MILETTI, J.
Development and assessment of the Monark cycle ergometer for aneerobic muscular exercise
[AD-A133173] 06 p0847 N84-15523
MILEWSKI, J. V.
Production and characterization of beta-silicon carbide and alpha-silicon nitride whiskers for ceramic matrix composites
[LA-9650-MS] 06 p0797 N84-15197
MILEY, G. H.
CTR plasma engineering studies
[DE84-001279] 04 p0607 N84-14006
Negative ion beam requirements for compact tori
[DE84-005752] 12 p1910 N84-22447
MILEY, W. G.
Relationship of Benkelman beam deflection as measured by Florida method to those measured by AASHTO method T-256-77, P-13-79
[PB83-252973] 05 p0694 N84-14557
MILGRAM, P.
Time to Line Crossing (TLC): A new method to describe driving performance
[IZF-1983-10] 12 p1867 N84-22165
Optimal control model applications and field measurements with respect to car driving
[IZF-1983-18] 12 p1892 N84-22324
A multivariate autoregressive display monitoring model
[NLR-MP-83033-U] 15 p2384 N84-25296
MILHAUD, C. L.
Use of primate model in weightlessness bone physiology: General problems 23 p3809 N84-34154
Use of primate model in weightlessness bone physiology. Histological approach after iliac crest biopsy
23 p3809 N84-34155
MILIONI, A. Z.
A numerical method for solving by approximation an advanced integro-differential equation
[INPE-2826-PRE/379] 02 p0279 N84-11830
MILKIS, M. R.
Hydrogeological and hydrometeorological precursors of Ashkhabad catastrophic earthquake
17 p2705 N84-27228
MILKOVICH, S. M.
Temperature dependence of elastic and strength properties of T300/5208 graphite-epoxy
[NASA-CR-173616] 16 p2460 N84-25767
Space radiation effects on graphite-epoxy composite materials
[NASA-TM-85478] 16 p2460 N84-25769
MILLARD, D. P.
Supplemental grounding of extending EMP collectors
[AD-A131255] 01 p0067 N84-10440
MILLARD, G. H.
Aerials for use in television outside broadcasts
[BBC-RD-1983/12] 05 p0665 N84-14373
Intermodulation between v.h.f./f.m. broadcast transmitters and the protection of adjacent-band aeronautical services
[BBC-RD-1984/2] 13 p1975 N84-22819
MILLARD, J. M.
Starprobe thermal shield evolution
10 p1448 N84-19462
MILLAUD, J.
Development of a continuous monitor for detection of toxic organic compounds
[PB83-234922] 03 p0378 N84-12461
Operation of a computer aided drafting system: Improvement, results and hopes
[DE84-005176] 11 p1708 N84-21134
MILLEA, M. F.
Reliability analysis of the gradual degradation of semiconductor devices
[AD-A131375] 02 p0213 N84-11395
Reliability analysis of multi-components systems
[AD-A138013] 12 p1824 N84-21890
MILLEMANN, N. T.
Proceedings of the 1982 Integrated Data Users Workshop
[DE83-014761] 01 p0162 N84-11066
MILLEN, E. W.
Aircraft liftmeter
[NASA-CASE-LAR-12518-1] 22 p3535 N84-32383
MILLER, A.
A helium-3 refrigerator employing capillary confinement of liquid cryogen 06 p0821 N84-15353
Mie code AGAUS 82
[AD-A133489] 06 p0918 N84-15964
Non-linear Fabry-Perot transmission in A CdHgTe etalon 14 p2239 N84-24437
MILLER, A. B.
Room temperature optical nonlinearities in GaAs multiple quantum wells 14 p2235 N84-24408
MILLER, A. H.
Large HAWT (Horizontal-Axis Wind Turbine) wake measurement and analysis
[DE84-013269] 22 p3596 N84-32772
MILLER, A. K.
Modelling of deformation and fracture in high-temperature structural materials
[DE84-006452] 12 p1798 N84-21731
Combined experimental/analytical modeling using component mode synthesis
[DE84-013147] 21 p3423 N84-31715
MILLER, A. L.
The effects of organophosphorus anticholinesterase compounds on brain glucose and energy metabolism
[AD-A137819] 11 p1695 N84-21058
MILLER, A. R.
A new derivation for the rough surface reflection coefficient and for the distribution of sea wave elevations
[AD-A134774] 08 p1145 N84-17453
MILLER, B. A.
Orbiter windward surface entry Heating: Post-orbital flight test program update 01 p0024 N84-10150
MILLER, B. L.
Sequential decision models in reliability
[AD-A144181] 24 p3911 N84-34770
MILLER, C. D.
Pacific barrier radar 3 (PACBAR 3)
[AD-A133790] 05 p0668 N84-14392
Q-GERT model of the contracting cycle
[AD-A135639] 09 p1398 N84-19127
Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-15429-1] 13 p1939 N84-22609
MILLER, C. M.
Selective laser ionization for mass-spectral isotopic analysis
[DE83-017303] 03 p0381 N84-12483
Resonance ionization mass spectroscopy at Los Alamos National Laboratory
[DE84-001705] 07 p0972 N84-16297
MILLER, C. O.
System safety in aircraft acquisition
[AD-A141492] 19 p2960 N84-28763
MILLER, C. W.
Methodology for the objective validation of model performance, with an application to atmospheric transport models
[DE83-015693] 06 p0875 N84-15693

MILLER, D.
Scatterometer System Simulator (SSS), phase 1: Definition
[ESA-CR(P)-1788] 08 p1191 N84-17765
Undoped buffer layer development
[AD-A139758] 15 p2413 N84-25484
Shunt diode designs in Li/CF Shuttle batteries
23 p3737 N84-33681
Release mechanism for a cylindrical object recovery device
[AD-D011183] 24 p3909 N84-34762
Cylindrical object recovery device
[AD-D011184] 24 p3909 N84-34763
MILLER, D. E.
Comparison of CRT (Cathode Ray Tube) antireflection filters
[PB84-202753] 22 p3590 N84-32742
MILLER, D. G.
Universal control grid modulator
[AD-D011108] 22 p3580 N84-32672
FET switching regulator
[AD-D011146] 23 p3735 N84-33665
MILLER, D. J.
Automated data reduction for optical interferometric data
[DE83-012075] 03 p0377 N84-12457
MILLER, D. L.
Sustained load crack growth in Inconel 718 under non-isothermal conditions
[AD-A136925] 10 p1460 N84-19535
MILLER, D. M.
The simplification of multiple-valued symmetric functions
[AD-P002340] 14 p2191 N84-24131
MILLER, D. S.
Body and canard effects on an attached-flow maneuver wing at Mach 1.62
[NASA-TP-2249] 09 p1250 N84-18163
Wing planform effects at supersonic speeds for an advanced fighter configuration
[NASA-TP-2269] 11 p1601 N84-20486
Effect of fuselage upwash on the supersonic longitudinal aerodynamic characteristics of 2 fighter configurations
[NASA-TP-2330] 18 p2785 N84-27676
MILLER, D. W.
Zinc/bromine prototype-batteries evaluation
[DE83-011861] 01 p0072 N84-10473
Testing of sealed lead-acid batteries
[DE84-008209] 14 p2141 N84-23840
Review of flow battery testing at Sandia
[DE84-011186] 22 p3589 N84-32734
MILLER, E.
The vapor pressure of Salt-HCl-Water solutions below 0 C
[AD-A141184] 18 p2811 N84-27845
MILLER, E. F.
Geometric models, antenna gains, and protection ratios as developed for BC SAT-R2 conference software
[NASA-TM-83381] 02 p0208 N84-11358
Broadcasting satellites at 12 GHz for Region 2: Technical characteristics
[NASA-TM-83522] 10 p1476 N84-19640
Spectrum/orbit utilization program for geostationary satellites
[NASA-TM-83759] 20 p3172 N84-30146
MILLER, E. J.
Pulmonary dosimetry of nitrogen dioxide in animals and man
[PB83-243394] 03 p0414 N84-12711
MILLER, E. K.
Numerical modeling techniques for antennas
03 p0365 N84-12373
Numerical modeling techniques for half-space (ground) problems
03 p0365 N84-12374
Computer assessment of electromagnetic means of detecting approaching cruise missile
[DE84-005115] 10 p1482 N84-19687
Modeling antennas near to and penetrating a lossy interface
[DE84-004785] 12 p1808 N84-21786
Computer-generated movie on the short pulse electromagnetic behavior of wire objects
[DE84-012032] 20 p3175 N84-30162
Performance of Beverage antennas at low angles
[DE84-011163] 20 p3175 N84-30164
MILLER, E. L.
Soil characterization and evaluation at White Sands Missile Range, New Mexico
[AD-A134820] 08 p1108 N84-17206
MILLER, E. R.
Induced environment contamination monitor: Preliminary results from the Spacelab 1 flight
[NASA-TM-86461] 23 p3701 N84-33461
MILLER, F. J.
Influence of nitrogen dioxide on xenobiotic metabolism in animals
[PB83-239723] 02 p0265 N84-11743
Dosimetry of ozone and nitrogen dioxide in man and animals
[PB84-195304] 22 p3631 N84-33009
MILLER, G.
Tornado Wind Energy Conversion System (TWECS) evaluation program
[PB83-227207] 01 p0103 N84-10669
Toroidal equilibrium in an iron-core reversed field pinch
[DE84-013858] 23 p3828 N84-34283
MILLER, G. E.
Broadband cavity-backed slot using printed circuit technology
[AD-P003508] 21 p3384 N84-31476
MILLER, G. I.
Programmable arithmetic logic unit
[AD-D011128] 22 p3637 N84-33055
MILLER, G. R.
On the mechanics of fatigue crack growth due to contact loading 22 p3608 N84-32859
MILLER, G. S.
Investigation of the currents and density structures of Lake Erie
[PB84-140334] 11 p1672 N84-20911
MILLER, H. C.
A review of anode phenomena in vacuum arcs
[DE84-012371] 21 p3395 N84-31547
MILLER, H. G.
Comment on the energy variation method
[CSIR-TWISK-293] 07 p1059 N84-16862
Methods for describing the coexistence of competing degrees of freedom in a many body system
[CSIR-TWISK-298] 11 p1712 N84-21159
MILLER, H. M.
Omnidirectional fiber optic tiltmeter
[DE84-011109] 20 p3300 N84-30959
MILLER, J.
Power system considerations and test activities
03 p0345 N84-12244
User's guide for SBUV/TOMS ozone derivative products
[NASA-RP-1116] 07 p1036 N84-16720
MILLER, J. A.
Additional symbols used in double-spaced text for Wang OIS word-processor users
[DE83-014908] 01 p0162 N84-11065
Development of recuperator manufacturing techniques, phase 2
[AD-A132448] 04 p0544 N84-13581
MILLER, J. B.
Numerical simulation of the plasma current quench following a disruptive energy loss
[DE84-003151] 07 p1077 N84-17004
The design and development of a solar tracking unit
15 p2348 N84-25090
MILLER, J. F.
Application features and considerations in advanced lead-acid and nickel/iron EV batteries
[DE83-017936] 04 p0528 N84-13472
Pertinent meteorological data for hurricane Allen of 1980
[PB84-104322] 08 p1192 N84-17766
Probable maximum precipitation and snowmelt criteria for southeast Alaska
[PB84-104371] 08 p1193 N84-17777
MILLER, J. G.
Non-destructive evaluation of composite materials using ultrasound
[NASA-CR-173416] 13 p1999 N84-22969
MILLER, J. H.
Algorithm for secondary electron emission from water vapor by high velocity ions
[DE84-011871] 21 p3494 N84-32142
MILLER, J. L.
Atlas of source emission particles
[PB83-229013] 01 p0103 N84-10672
MILLER, J. M.
Bibliography of coefficient of friction literature relating to slip type accidents
[PB83-243626] 03 p0359 N84-12334
Slippery versus slip resistant work surfaces: The background for a regulatory definition
[PB83-243634] 04 p0516 N84-13392
MILLER, J. M. G.
Stratigraphy and sedimentology of the upper Proterozoic Kingston Peak Formation, Panamint Range, eastern California 22 p3620 N84-32939
MILLER, J. S.
Geotechnical and geologic design considerations for a shelf mounted OTEC (Ocean Thermal Energy Conversion) facility
[PB84-186147] 20 p3238 N84-30554
MILLER, K.
Physiological acceptability tests of the modified SJU-5/A ejection seat for the F-18 aircraft
[AD-A139416] 14 p2103 N84-23614
MILLER, K. M.
Thermal vacuum test facility
[AD-A137712] 11 p1620 N84-20607
Application of semi-empirical Ge(Li) detector calibration technique for large volume samples
[DE83-012801] 16 p2494 N84-26004
MILLER, L. G.
Development of an engineering-scale nuclear test of a solid-breeder fusion-blanket concept
[DE83-016861] 01 p0151 N84-10992
Comparison of compression properties and swelling of beryllium irradiated at various temperatures
[DE84-000597] 04 p0500 N84-13277
MILLER, L. L.
Positive ion-molecule reactions in OCS/hydrocarbon mixtures
[AD-A132350] 04 p0493 N84-13237
MILLER, L. L., JR.
Noise, A bibliography
[AD-A138896] 14 p2221 N84-24328
MILLER, L. S.
Identification of airfoil characteristics for optimum wind turbine performance 12 p1765 N84-21510
MILLER, M. G.
Turbulence environment characterization
[AD-A131815] 03 p0411 N84-12692
MILLER, M. J.
Automatic-repeat-request error control schemes
[NASA-CR-170605] 02 p0207 N84-11353
MILLER, M. M.
Global energy and CO2-induced climate change
[PB84-145895] 12 p1862 N84-22131
Global energy futures and CO2-induced climate change, appendices
[PB84-145903] 12 p1862 N84-22132
Global energy future and CO2 induced climate change: Executive summary
[PB84-145911] 12 p1862 N84-22133
Optical fiber termination and splicing techniques
[DE84-013919] 22 p3564 N84-32572
MILLER, N. J.
Some characteristics of midlatitude F layer storms generated by thermosphere-plasmasphere coupling processes 02 p0251 N84-11645
MILLER, P.
Development of theoretical models and analyses of the micro-physics of cloud and precipitation systems
[AD-A133557] 06 p0882 N84-15735
MILLER, P. A.
Amplion hybrid diodes on hydramite and PBFA-1
[DE83-017824] 03 p0448 N84-12945
Analysis of mechanisms for anode plasma formation in ion diodes
[DE83-017793] 04 p0608 N84-14010
Overview of ion-diode research
[DE83-017791] 04 p0608 N84-14012
Hybrid ion diode theory and computations
[DE84-000102] 04 p0610 N84-14029
MILLER, P. D., JR.
Generation of monoenergetic positrons
[DE83-015535] 03 p0440 N84-12887
MILLER, R.
Electromagnetic launchers and guns, phase 1
[AD-A143778] 23 p3698 N84-33435
MILLER, R. A.
Performance of thermal barrier coatings in high heat flux environments
[NASA-TM-83663] 15 p2295 N84-24772
Failure analysis of plasma-sprayed thermal barrier coatings
[NASA-TM-83777] 21 p3365 N84-31347
MILLER, R. B.
IBEX: Annular beam propagation experiment
[DE84-000456] 04 p0599 N84-13954
Telecommunications and data acquisition support for the Pioneer Venus Project: Pioneers 12 and 13, prelaunch through March 1984
[NASA-CR-173893] 22 p3539 N84-32403
Experimental investigation of certain beam transport issues in a pulsed transmission line linear accelerator
[DE84-011191] 22 p3654 N84-33164
MILLER, R. H.
Improved transistor-controlled and commutated brushless DC motors for electric vehicle propulsion
[NASA-CR-168053] 01 p0069 N84-10450
Emittance calculations for the Stanford linear collider injector
[DE83-011851] 02 p0290 N84-11904
Making electron beams for SLC linac
[DE84-012072] 20 p3293 N84-30907

MILLER, R. K.
Detailed design and implementation of a multiprogramming operating system for sixteen-bit microprocessors
[AD-A138078] 12 p1880 N84-22256
Finite element analysis of wrinkling membranes
[NASA-CR-172325] 14 p2158 N84-23926
MILLER, R. L.
Modular stellarator reactor: A Fusion power plant
[DE84-002268] 07 p1077 N84-17001
Water resources data for Indiana, water year 1982
[PB84-114900] 09 p1339 N84-18747
Investigation of high efficiency large TBW line acoustic wave convolvers
[AD-A135686] 09 p1387 N84-19056
AFOS (Automation of Field Operations and Services)-era forecast verification
[PB84-129303] 10 p1541 N84-20098
Plasma engineering design of a Compact Reversed-Field Pinch Reactor (CRFPR)
[DE84-004334] 10 p1586 N84-20394
Plasma confinement in self-consistent, one-dimensional transport equilibria in the collisionless-ion regime of EBT operation
[DE84-001861] 19 p3108 N84-29751
Dehydration of aluminum chloride hexahydrates: A technical assessment
[DE84-013086] 21 p3362 N84-31328
MILLER, R. M.
Autogenerator of beams of charged particles
[DE84-014242] 22 p3654 N84-33163
MILLER, R. S.
Organic azides as jet fuel additives: Synthesis of azides and micro-explosion characteristics of droplets
20 p3144 N84-29963
MILLER, S. A.
Method and apparatus for precise measurement of long-term stability of photodetectors
[AD-D011190] 24 p3897 N84-34674
MILLER, S. L.
Magnetic impurity scattering in in situ superconductors
[DE84-012835] 21 p3505 N84-32212
MILLER, T. B.
Design considerations for a 10-kW integrated hydrogen-oxygen regenerative fuel cell system
[NASA-TM-83664] 13 p2008 N84-23023
MILLER, T. H.
A finite element study of instabilities in rubber elasticity 02 p0199 N84-11293
MILLER, T. L.
Finite-difference fluid dynamics computer mathematical models for the design and interpretation of experiments for space flight
[NASA-TP-2323] 14 p2144 N84-23852
Theoretical flow regime diagrams for the AGCE
24 p3923 N84-34831
Numerical studies of baroclinic instability at small Richardson number 24 p3924 N84-34834
Laboratory studies of baroclinic instability at small Richardson number 24 p3924 N84-34835
MILLER, T. M.
Ionic reactions in the Earth's upper atmosphere
[AD-A141185] 18 p2880 N84-28283
MILLER, V. R.
YC-15 EBF (Externally-Blown Flap) STOL (Short Takeoff and Landing) airplane fuselage and interior noise environment
[AD-A131462] 02 p0178 N84-11164
Copper-manganese-base silverless brazing systems
[PB83-250100] 04 p0545 N84-13593
Investigation of the acoustic characteristics of aircraft/engines operating in a dry-cooled jet engine maintenance test facility 10 p1513 N84-19901
MILLER, W. B.
Modeling of the regional hydraulics of the Rustler Formation
[DE84-005859] 11 p1672 N84-20910
MILLER, W. C.
Comparison between measured and predicted performance of a high speed, free surface liquid jet flowing along a curved wall
[DE83-012728] 01 p0082 N84-10530
Adaptations to a high fat diet which increase exercise endurance in male rats 04 p0570 N84-13755
Opacification of high temperature fibrous insulation
[NASA-CR-166578] 21 p3356 N84-31285
MILLER, W. F.
Application of remote sensing to state and regional problems
[E84-10128] 14 p2168 N84-23986
MILLER, W. G.
Robust multivariable controller design via implicit model-following methods
[AD-A138309] 12 p1882 N84-22268
MILLER, W. J.
A program to improve solar blind UV (ultraviolet) flash lamps
[AD-A141909] 20 p3177 N84-30177
MILLICH, A.
Acceleration of high charge density electron beams in the SLAC linac
[DE84-012415] 21 p3497 N84-32161
MILLIGAN, J. E.
STS-5 (Space Transport System-5) fish kill, Kennedy Space Center, Florida
[AD-A132958] 05 p0700 N84-14595
MILLIGAN, J. M.
In-stream distribution and hydraulic and ecological effects of volcanic ash from Mount St. Helens eruption
[PB84-169382] 20 p3230 N84-30526
MILLIGAN, R. J.
Effects of combined ultraviolet and oxygen plasma environment on spacecraft thermal control materials
10 p1446 N84-19449
MILLIGAN, R., JR.
Precision flexible machining cells within a manufacturing system
[AD-A134864] 08 p1167 N84-17595
Precision flexible machining cells within a manufacturing system
[AD-A142527] 20 p3170 N84-30129
MILLIGAN, W. W.
Low cycle fatigue behavior of conventionally cast MAR-M 200 AT 1000 deg C
[NASA-TM-83769] 23 p3717 N84-33564
MILLIKEN, J. O.
Indicators of hazard for polycyclic organic matter
[PB84-167493] 15 p2288 N84-24730
MILLIS, R. L.
The occultation of AG+29 deg 398 by 98 Minerva
[NASA-CR-173827] 20 p3319 N84-31066
MILLMAN, G. H.
Extraterrestrial radio noise and its effect on radar performance 06 p0870 N84-15662
MILLS-CURRAN, W. C.
Optimization of structures subjected to periodic loads
04 p0547 N84-13605
MILLS, C. T.
Structural efficiency studies of corrugated compression panels with curved caps and beaded webs
[NASA-TP-2272] 09 p1329 N84-18675
MILLS, D. L.
The interaction of electromagnetic radiation with solid materials
[AD-A130727] 01 p0066 N84-10429
M/A-COM linkabit eastern operations
[AD-A136463] 09 p1299 N84-18490
The DARPA Internet project: M/A-COM LINKABIT eastern operation
[AD-A137661] 11 p1711 N84-21155
MILLS, J.
Thermomagnetic generator
[DE84-007685] 15 p2365 N84-25189
MILLS, J. D.
Real-time implementation of a speech digitization algorithm combining time-domain harmonic scaling and adaptive residual coding, volume 1
[AD-A135232] 08 p1150 N84-17485
Real-time implementation of a speech digitization algorithm combining time-domain harmonic scaling and adaptive residual coding, volume 2
[AD-A135233] 08 p1150 N84-17486
MILLS, J. W.
A detailed consideration of resonance radiation trapping in the argon inductively coupled plasma
[AD-A136633] 09 p1391 N84-19085
A detailed consideration of resonance radiation trapping in the argon inductively coupled plasma
[AD-A139369] 14 p2222 N84-24334
MILLS, M. W.
Performance measurement of low concentration ratio solar array for space application
19 p3047 N84-29333
MILLS, R. G.
Laboratory studies of aircrew chemical protective ensemble: Effects on pilots' performance
11 p1697 N84-21066
MILLS, R. L.
Equation of state of fluid NH-3 from P-V-T and ultrasound measurements to 12 kbar
[DE83-015913] 08 p1125 N84-17316
MILLS, W. J.
Fracture-mechanics behavior of neutron-irradiated alloy A-286
[DE84-001467] 07 p0975 N84-16320
MILMAN, A. S.
Sea surface temperatures from the Nimbus-7 scanning multichannel microwave radiometer
12 p1835 N84-21963
MILNE, S. C.
Special functions and group theory in theoretical physics
[DE83-015642] 02 p0301 N84-11975
MILNER, W. T.
Implications of heavy-ion-induced satellite X-ray emission. Part 2: Production of K and L X-rays by 0.9 to 2.6 MeV/u Ar ions in thick targets of V, Cu, Nb, Ta, and Pt
[DE83-015681] 03 p0453 N84-12982
MILOJEVIC, D.
Eulerian and Lagrangian predictions of particulate two phase flows
[KU-SFB-80/T/222] 05 p0682 N84-14481
MILONNI, P. W.
Chaos in semiclassical model of multiphoton excitation of spherical top molecules
[DE83-014201] 02 p0289 N84-11897
MILOVICH, J. L.
Growth rates of parametric instabilities driven by two pumps
[AD-A139463] 14 p2229 N84-24364
MILROY, R.
Investigation of wave rotor turbofans for Cruise Missile engines, volume 1
[AD-A131167] 02 p0180 N84-11174
MILROY, R. D.
Translation of field-reverse configurations in the FRX C/T experiment
[DE84-007489] 14 p2230 N84-24376
MILSHTEIN, T.
Three-dimensional, primitive-variable model for solid-fuel ramjet combustion 13 p1952 N84-22688
Three-dimensional, primitive-variable model for solid-fuel ramjet combustion
[AD-A138756] 13 p1956 N84-22715
MILSTEIN, J.
Spline and weighted random directions method for nonlinear optimization
[AD-A144217] 24 p3950 N84-35012
MILSTEIN, L. B.
Adaptive spread spectrum receiver using acoustic surface wave technology
[AD-A142129] 19 p3007 N84-29060
MILTENBERGER, G.
Development of maintenance-free lead batteries
[BMFT-FB-T-83-150] 02 p0216 N84-11419
MILYUSHENKO, V. A.
Medical applications of lasers
21 p3452 N84-31904
MIMMACK, G.
TP2 orderings
[AD-A143434] 22 p3648 N84-33132
MIMMS, D. L.
Analysis of LANDSAT-4 TM data for lithologic and image mapping purpose 20 p3209 N84-30390
MIMPEN, A. M.
Technique for measuring the sound pressure levels under flying helmets and headsets
[IZF-1982-39] 02 p0269 N84-11765
Comparative investigation of the sound attenuation of four types of flyer helmets
[IZF-1983-7] 12 p1899 N84-22370
The audiomat: An automatic audiometer to be used in occupational audiometry
[IZF-1983-17] 12 p1900 N84-22372
MIMURA, M.
A 3-component system of competition and diffusion
[AD-A132860] 05 p0738 N84-14844
Emission properties of highly ionized iron spectra for spectroscopic plasma diagnositcs
11 p1735 N84-21314
MIN, W. S.
Scientology and management of science and technology
[AD-A139084] 14 p2246 N84-24487
MINA, C.
Programmable masks for optical information processing 12 p1906 N84-22415
MINAIRE, P.
Bone changes in acutely immobilized patients: Results and perspectives 23 p3807 N84-34140
MINAMI, H.
Response of flame spread phenomena to ambient air stream velocity changes 04 p0514 N84-13373
MINARDI, J. E.
Thrust augmentation study of high performance ejectors
[AD-A142650] 20 p3126 N84-29856
Conceptual design of an electrofluid dynamic wind energy system
[DE84-004512] 21 p3435 N84-31795

MINC, H.
Stability analysis for difference schemes, problems in applied linear algebra, and application of number theory to computing
[AD-A133654] 05 p0735 N84-14825
MINDER, T. L.
A comparative study of the factors linking psychology and information science 04 p0616 N84-14063
MINDERMAN, D.
Comparison of the characteristics of graphites irradiated at 600 and 9000 deg C
[DE83-015695] 08 p1123 N84-17297
MINDERMAN, P. A.
Liquid hydrogen polygeneration system and process
[NASA-CASE-KSC-11304-1] 19 p3001 N84-29017
MINDLIN, R. D.
Vibrations of doubly-rotated-cut quartz plates with monoclinic symmetry
[AD-A135948] 09 p1377 N84-18996
MINE, H.
Generation of ternary majority functions of four or less variables
[AD-P002337] 14 p2190 N84-24128
MINEEV, Y. V.
The study of the dynamics of the electron fluxes and spectra during solar minimum 24 p3994 N84-35276
MINEHART, R. C.
Experiments on the nuclear interactions of pions
[DE83-016285] 03 p0434 N84-12844
MINENKO, G. N.
Properties of grey cast iron treated with pulsating current during inoculation
[BLL-M-35118-(5828.4)] 01 p0040 N84-10252
MINEO, J. A.
C3I modeling and simulation
[AD-A139264] 14 p2140 N84-23830
MINER, E. W.
A comparison of explicit time integration techniques for the finite element shock wave equations
[AD-A134757] 08 p1220 N84-17968
MINERBO, G. N.
Radial inversion of TE measurements in a borehole
23 p3776 N84-33940
MINES, G. L.
Thermal and hydraulic performance of a sieve-tray direct-contact heat exchanger
[DE84-000663] 04 p0537 N84-13531
MING, E. G.
Water resources data for Alabama, water year 1982
[PB84-183250] 20 p3229 N84-30523
MINGDA, G.
An evaluation of overload retardation behavior and overload retardation models of Ti-6Al-4V sheet titanium alloy
[AD-A135548] 08 p1132 N84-17362
MINGGAO, Y.
An evaluation of overload retardation behavior and overload retardation models of Ti-6Al-4V sheet titanium alloy
[AD-A135548] 08 p1132 N84-17362
Effect of the overload ratio on fatigue growth behavior in Ti-6Al-4V
[AD-A136027] 09 p1283 N84-18381
Characteristics of initial period fatigue crack propagation of metals and its affecting factors
20 p3160 N84-30071
MINGLE, J. G.
Effect of low-proof fuel alcohol on crankcase oil dilution in an Otto-cycle engine
[DE83-016425] 01 p0091 N84-10594
MINGLONG, G.
Journal of Engineering Thermophysics (selected articles)
[AD-A137191] 11 p1745 N84-21391
MINH, N. Q.
Preliminary study of the electrolysis of aluminum sulfide in molten salts
[DE83-014552] 01 p0038 N84-10242
Molten carbonate fuel cell cathode development
[DE84-012101] 21 p3395 N84-31544
MINISZEWSKI, K. R.
Fire management-suppression system-concepts relating to aircraft cabin fire safety
[FAA-CT-82-134] 05 p0628 N84-14130
MINKER, J.
Parallel logic programming and ZMOB and parallel systems software and hardware
[AD-A137068] 10 p1564 N84-20246
MINKOVICH, V. P.
Fiber optic light guides based on polymer coated multicomponent glasses 21 p3487 N84-32100
MINNAAR, H. F. B.
The influence of weakly polarized surfaces on different kinds of thin layer systems 06 p0815 N84-15309
MINNETYAN, L.
Dynamic simulation of structural systems with isolated nonlinear components 10 p1510 N84-19885
MINNICK, H. W.
National airspace review benefits and costs
[FAA-AT-84-1] 19 p2961 N84-28765
MINODA, K.
Embrittlement of steels due to galvanizing or coating with zinc paint: An investigation of embrittlement in welding or heating operations
[AERE-TR-4774] 06 p0805 N84-15244
MINOTA, T.
Sound radiation by vortex-body interaction
07 p0982 N84-16360
MINOTT, P. O.
Dual aperture multispectral Schmidt objective
[NASA-CASE-GSC-12756-1] 13 p2042 N84-23248
MINSCH, J. H.
Earthquakes in the United States, January - March 1982
[USGS-CIRC-896-A] 11 p1677 N84-20945
Earthquakes in the United States, April - June 1982
[USGS-CIRC-896-B] 14 p2175 N84-24026
MINSER, D. G.
Structure of glasses containing transition metal ions
[DE84-004211] 10 p1468 N84-19591
MINSK, L. D.
Proceedings of 1st International Workshop on Atmospheric Icing of Structures
[AD-A131869] 03 p0411 N84-12690
MINSKY, M. L.
Space applications of Automation, Robotics And Machine Intelligence Systems (ARAMIS). Volume 3, phase 2: Executive summary
[NASA-CR-3736] 01 p0089 N84-10582
Space Applications of Automation, Robotics and Machine Intelligence Systems (ARAMIS), phase 2. Volume 1: Telepresence technology base development
[NASA-CR-3734] 01 p0089 N84-10583
Space Applications of Automation, Robotics and Machine Intelligence Systems (ARAMIS), phase 2. Volume 2: Telepresence project applications
[NASA-CR-3735] 01 p0090 N84-10584
MINSTER, J. F.
Somali current studied from SEASAT altimetry
17 p2719 N84-27307
MINTEN, A.
Making electron beams for SLC linac
[DE84-012072] 20 p3293 N84-30907
MINTHRON, P. A.
UHF (Ultra-High Frequency) propagation measurements
[AD-A137637] 11 p1643 N84-20741
MINTON, J. A.
Syntax and semantics of a LINCS control monologue
[DE84-011399] 20 p3277 N84-30805
MINTON, S.
Metaphor and common-sense reasoning
[AD-A131423] 02 p0268 N84-11756
MINTZ, Y.
The sensitivity of a general circulation model to Saharan dust heating 12 p1858 N84-22108
Land-surface influences on weather and climate
[NASA-CR-173595] 16 p2529 N84-26234
MINZHONG, Z.
Crack tip field and fatigue crack growth in general yielding and low cycle fatigue
[NASA-CR-174686] 22 p3554 N84-32503
MIODUSZEWSKI, P. K.
A practical sublimation source for large-scale chromium gettering in fusion devices
[DE84-000724] 04 p0606 N84-14002
MIR, A.
An aerodynamic study of combustion in the combustion chambers of turbomachines: Experimental and theoretical approaches 15 p2293 N84-24764
MIRABAL-GARCIA, M.
Magneto-optical studies of epitaxial EuS films and (EuS/SrS) layer systems
[JUEL-1910] 23 p3831 N84-34302
MIRABEL, A. P.
Supercritical regimes in Rossby wave propagation
17 p2700 N84-27197
MIRANDA, H. A., JR.
A molecular identification device for individual sub-micron aerosols: Engineering breadboard device
[AD-A137139] 10 p1536 N84-20067
MIRCHANDANI, M. G.
Application of stress-generated heat in composites to thermographic NDT 15 p2310 N84-24864
MIRELS, H.
Mach reflection flow fields associated with strong shocks
[AD-A131384] 02 p0175 N84-11148
MIRICK, P. H.
Design considerations for bearingless rotor hubs
[AD-A131660] 03 p0331 N84-12162
MIRIN, A. A.
Computational physics program at National MFE Computer Center
[DE84-004602] 10 p1574 N84-20318
Transport, stability and relaxation of a Spheromak
[DE84-007285] 15 p2412 N84-25479
MIRKHANI, M. R.
Review and assessment of USAF and US Army (HISS) artificial icing cloud studies
[AD-A135720] 09 p1349 N84-18814
MIROLYUBOV, A. V.
Correlation between individual alpha-rhythm parameters and operator's performance while subjected to maximum information input 21 p3453 N84-31909
Link between blood catecholamine levels and individual features in dynamics of operator error
21 p3456 N84-31929
MIRONOV, A. M.
Laser impulse drilling machine discussed
24 p3891 N84-34641
MIRONOV, O. M.
Form coefficient for the field of a superconducting synchronous machine
[AD-A134751] 08 p1226 N84-18010
MIROSHNICHENKO, A. Y.
Swirl at gas-intake inlet
[AD-A139472] 14 p2146 N84-23861
MIROSHNIKOVA, Y. B.
Free amino acids of blood before and after short-term spaceflights 02 p0260 N84-11702
Effect of hypokinesia on amino acid metabolism in rats on diets differing in calcium and phosphorus content
02 p0261 N84-11707
MIRSKI, Z.
Utilization of low temperatures in electrical machines
[AD-A133325] 06 p0830 N84-15399
MIRTICH, M. J.
Resistojet propulsion for large spacecraft systems
[NASA-TM-83489] 02 p0186 N84-11206
Sputtered coatings for protection of spacecraft polymers
[NASA-TM-83706] 17 p2626 N84-26803
Deposition of diamondlike carbon films
[NASA-CASE-LEW-14080-1] 19 p2996 N84-28986
Dual ion beam deposition of carbon films with diamondlike properties
[NASA-TM-83743] 21 p3390 N84-31512
Improved heat exchanger for electrothermal devices
[NASA-CASE-LEW-14037-1] 22 p3542 N84-32425
MIRTICH, M. J., JR.
Ion-beam-textured and coated surfaces experiment (S1003) 15 p2273 N84-24650
MISAIZU, H.
Macroscopic plasma behavior and charged particle acceleration in the plasma focus
10 p1581 N84-20363
MISAWA, H.
Fatigue crack growth in aluminum alloy sheet material under constant amplitude and simplified flight simulation loading
[VTH-LR-381] 10 p1464 N84-19581
MISAWA, S.
The preparation of BP single crystals by high pressure flux method
[NASA-TM-77389] 10 p1587 N84-20403
MISEL, J. E.
Transient response dynamic module modifications to include static and kinetic friction effects
22 p3610 N84-32872
MISENCIK, J. A.
Evaluation of CO2 and CO dopants in hydrogen to reduce hydrogen permeation in the Stirling engine heater head tube alloy CG-27
[NASA-TM-83535] 06 p0805 N84-15246
Evaluation of candidate Stirling engine heater tube alloys after 3500 hours exposure to high pressure doped hydrogen or helium
[NASA-TM-83782] 24 p3883 N84-34603
MISH, K. D.
User's manual for SAC-3: A 3-dimensional nonlinear, time dependent soil analysis code using the bounding surface plasticity model
[AD-A137782] 18 p2853 N84-28114
MISH, W. H.
Interactive digital signal processor
[NASA-TM-83997] 24 p3944 N84-34974
MISHATKIN, V. N.
The system of time service for ocean bottom seismic observations 19 p3060 N84-29414
MISHENKIN, B. P.
Detailed study of Earth's crust in Baykal rift zone according to refracted waves data
18 p2860 N84-28160

MISHENKINA, Z. R.
Detailed study of Earth's crust in Baykal rift zone according to refracted waves data
18 p2860 N84-28160

MISHIMA, M.
Influence of deflocculant on the isoelectric point of refractory powders: Considerations on the action of deflocculant
[NASA-TM-77364] 07 p0969 N84-16277

MISHIN, V.
Polyacetylene and K 24 p3868 N84-34511

MISHINA, H.
The friction behavior of semiconductors Si and GaAs in contact with pure metals
[NASA-TM-83779] 22 p3558 N84-32531
Friction behavior of silicon in contact with titanium, nickel, silver and copper
[NASA-TP-2362] 23 p3723 N84-33590

MISHRA, I. B.
Status of ammonium nitrate in propellants and explosives 13 p1946 N84-22655
Combustion of GAP, part 1 20 p3142 N84-29952
Development of GAP-TAGN-PEG propellants. Part 1: Study of ingredients 20 p3143 N84-29954
Synthesis of diazidodiesters 20 p3143 N84-29956

MISIANO, C.
Application of sputtering technology to microwave integrated circuit fabrication 17 p2653 N84-26965

MISLEVY, R. J.
Estimation of latent group effects
[AD-A139299] 14 p2218 N84-24310

MISONO, N.
Characteristics of heat and flame resistant optical fiber cables 11 p1726 N84-21260

MISRA, A. K.
Mechanism of corrosion of Ni base superalloys by molten Na2MoO4 at elevated temperatures
[NASA-TM-83580] 11 p1632 N84-20672

MISRA, J.
Preserving asymmetry by symmetric processes and distributed fair conflict resolution
[AD-A135458] 08 p1223 N84-17986
Distributed algorithms for various problems
[AD-A135452] 08 p1240 N84-18105

MISRA, M. S.
Effects of yttrium microalloying on the epitaxial grain growth in Ti-6Al-4V weld fusion zones
[AD-A137272] 10 p1459 N84-19526

MISSOUT, B.
Metal-free cylindrical v-grooved optical cable
11 p1724 N84-21244
Manufacture cables with low losses
11 p1725 N84-21256

MISULIS, K. E.
Physiological changes in fast and slow muscle with simulated weightlessness 09 p1354 N84-18850

MITCHAEL, J. L.
Profit responsibilities in the simulation and training equipment industry
[AD-P003497] 21 p3515 N84-32263

MITCHELL, A.
Equations of state of PBX-9404, LX-07, and RX-26-AF detonation products at pressures above detonation pressure
[DE84-002465] 09 p1290 N84-18424

MITCHELL, A. C.
Theoretical and experimental studies of shock-compressed benzene and polybutene
[DE83-015884] 03 p0430 N84-12816
Aluminum as a global high-pressure equation-of-state standard
[DE84-000153] 04 p0501 N84-13287
Raman spectroscopy of shocked water
[DE84-002468] 07 p0972 N84-16295
Shock temperatures in anorthite glass
[NASA-CR-173364] 09 p1287 N84-18401

MITCHELL, A. M.
Transmission efficiency measurements and correlations with physical characteristics of the lubricant
[NASA-TM-83740] 20 p3195 N84-30293

MITCHELL, C. A.
Mechanical regulation of plant growth and development 09 p1355 N84-18858

MITCHELL, D. B.
Methanol production by catalytic gasification of wood
[DE83-013744] 01 p0053 N84-10341

MITCHELL, D. G.
Spatial variation of iron abundance in the high speed solar wind, 1972 to 1976 03 p0473 N84-13113
Tentative STOL (short-takeoff-and-landing) flying qualities criteria for MIL standard and handbook
[AD-A132857] 05 p0629 N84-14138

MITCHELL, E. E. L.
ACSL (Advanced Continuous Simulation Language) simulation of a third order Butterworth filter using implementations derived from both Z and S domain representations
[AD-A140302] 16 p2545 N84-26335

MITCHELL, G. A.
Summary of recent NASA propeller research
[NASA-TM-83733] 22 p3529 N84-32344

MITCHELL, I. R.
Sandia National Laboratories administrative data processing systems
[DE84-014328] 23 p3817 N84-34202

MITCHELL, J. C.
On the sequential nature of unification
[AD-A139939] 15 p2398 N84-25388
Battery safety procedures for surface-mining equipment
[LC-84-600162] 23 p3741 N84-33713

MITCHELL, J. G.
Fluid dynamic aspects of turbine engine testing
14 p2098 N84-23586

MITCHELL, J. L.
A position paper: Mesoscale oceanography from GEOSAT
[AD-A132292] 04 p0569 N84-13749
Flight measurement and analysis of AAFE RADSCAT wind speed signature of the ocean
[NASA-TM-85646] 08 p1194 N84-17784
The satellite altimeter as a platform for observation of the oceanic mesoscale 17 p2718 N84-27299

MITCHELL, J. W.
A correction factor to f-chart predictions of active solar fraction in active-passive heating systems
16 p2513 N84-26127

MITCHELL, K. E.
Cloud forecast fields comparison test
[AD-A135556] 08 p1191 N84-17761

MITCHELL, K. J.
A very large array 1411 MHz radio survey: Properties of complete samples of radio and optically selected QSO candidates in a high galactic-latitude field
04 p0618 N84-14076

MITCHELL, M. J.
Data distribution in the NBS Automated Manufacturing Reseach Facility 12 p1891 N84-22315

MITCHELL, M. R.
Deformation and fatigue of aircraft structural alloys
[AD-A133947] 05 p0654 N84-14297

MITCHELL, N.
Terrain travel simulation: Data and application
[AD-P003359] 18 p2912 N84-28472

MITCHELL, N. B.
Psychological research on advanced terrain representation: Formatting the visual material
[AD-A139782] 15 p2382 N84-25288

MITCHELL, O. R.
Evaluation of Fourier descriptors for target recognition in digital imagery
[AD-A130182] 01 p0129 N84-10844
Shape recognition and description: A comparative study
[AD-A132842] 05 p0737 N84-14843

MITCHELL, P. J.
Geostatistics software user's manual for the Geosciences Research and Engineering Department PDP 11/70 computer
[DE84-004149] 09 p1369 N84-18940

MITCHELL, R.
The role of microorganisms in marine corrosion processes
[AD-A133113] 06 p0885 N84-15757
Oscillating wind energy conversion systems
[DE84-000087] 12 p1843 N84-22018
A study of MX environmental management information system (MXEMIS) needs
[AD-A139025] 13 p2067 N84-23404

MITCHELL, R. A. K.
Payload missions integration
[NASA-CR-170902] 01 p0027 N84-10171

MITCHELL, R. G.
Cost of corrosion for commercial aviation
16 p2436 N84-25624

MITCHELL, R. I.
Walk-through survey report: Control technology for integrated circuit fabrication, Xerox Corporation, El Segundo, California
[PB83-239053] 03 p0359 N84-12333

MITCHELL, R. L.
The SERI advanced and innovative wind energy concepts program
[DE83-011960] 06 p0873 N84-15680
Progress in polycrystalline thin-film solar cells
[DE83-012131] 06 p0875 N84-15691

MITCHELL, T. B.
A computer model for a multiple high PRF pulse Doppler radar
[AD-A142357] 20 p3173 N84-30152

MITCHELL, T. J.
Nonparametric estimation of the distribution of time to onset for specific diseases in survival/sacrifice experiments
[DE83-013726] 01 p0112 N84-10728
Two-level compromise designs for estimating main effects and detecting interactions
[DE84-002997] 08 p1238 N84-18094

MITCHELL, T. M.
Machine learning. Part 1: A historical and methodological analysis
[AD-A131424] 02 p0278 N84-11824
A knowledge based approach to VLSI CAD
[AD-A133692] 05 p0675 N84-14434

MITCHELL, W. G., JR.
Vernier Rocket Motor Mk 84 Mod 0 quality evaluation
[AD-A133301] 06 p0796 N84-15185

MITCHELL, W., III
A study of research needs and priorities in radioactive waste management
[DE84-009045] 20 p3298 N84-30946

MITCHNER, M.
High magnetic field MHD generator program
[DE84-007690] 15 p2411 N84-25474
Fundamental processes in partially ionized plasmas
[AD-A140549] 16 p2558 N84-26414

MITCHUM, G. T.
On the wind stress - sea level power law
[AD-A132035] 03 p0410 N84-12681

MITIDIERI, E.
A maximum principle for an elliptic system and applications to semilinear problems
[AD-A141600] 19 p3085 N84-29581

MITKEVICH, A. V.
Stability of permanent magnets
[AD-A139471] 14 p2220 N84-24320

MITLER, H. E.
Computer modeling of aircraft cabin fires
[PB84-101153] 08 p1101 N84-17162

MITLITSKY, F.
Wafer-scale laser pantography. Part 6: Direct-write interconnection of VLSI gate arrays
[DE84-012676] 22 p3601 N84-32815

MITROFANOV, T. M.
Photoelectric master means of measurement of energy and maximum power of pulsed lasers
17 p2637 N84-26872

MITRONOVAS, W.
Microseismic monitoring for evidence of geothermal heat in the capital district of New York
[PB83-248807] 04 p0556 N84-13659

MITSCHKE, F.
Critical slowing down and magnetically-induced self-pulsing in a sodium-filled Fabry-Perot resonator
14 p2240 N84-24449

MITSEL, A. A.
Resonance absorption of narrow-band laser radiation by atmospheric gases 20 p3225 N84-30493

MITSKEVICH, N. S.
Cubic silicon nitride in iron-silicon steels
[BLL-M-35653-(5828.4)] 22 p3552 N84-32486

MITSUI, T.
Development of composite fiber-optic electric-power umbilical cable and optical feedthrough for deep ocean mining 11 p1722 N84-21231

MITSUMA, H.
Evaluation of modal testing techniques for spacecraft structures 10 p1513 N84-19906

MITTAL, S.
CSRL (Conceptual Structures Representation Language): A language for expert systems diagonsis
[AD-A131403] 02 p0272 N84-11782

MITTENDORF, M.
Pilot-aircraft interaction concerning a wind shear indication system 17 p2588 N84-26586

MITTER, S. K.
Linear and nonlinear filtering and related inverse scattering problems
[AD-A135175] 08 p1219 N84-17954
Linear and nonlinear filtering and stochastic control
[AD-A142229] 19 p3093 N84-29645

MITTL, J. C.
Joining silicon nitride based ceramics: A technical assessment
[DE84-011356] 20 p3164 N84-30092

MITTLEMAN, A. N.
Manual for implementing a Shared Time Engineering Program (STEP) September 1980 through September 1983
[PB84-144260] 12 p1804 N84-21765

MITTLEMAN, K.
Aerobic/calisthenic and aerobic/circuit weight training programs for Navy men: A comparative study
[AD-A140971] 18 p2900 N84-28396
MITTLEMAN, M. H.
Research in the area of laser modified atomic physics
[AD-A139387] 14 p2222 N84-24335
Radiation pressure on atoms: Laser cooling and intense field effects
[AD-A143637] 23 p3754 N84-33793
MITTMANN, J.
Quality control and sample comparison by differential modal analysis
[MBB-BB-543-83-OE] 03 p0386 N84-12514
MITTRA, R.
Experimental study of a dielectric antenna at the frequency range of 76-80 GHz
[AD-A134429] 07 p0993 N84-16438
An investigation of strip lines and fin lines with periodic stubs
[AD-A134430] 07 p0997 N84-16466
Studies in fin-line antenna design for phased array applications
[AD-A135255] 08 p1144 N84-17444
Coupling between 2 arbitrarily oriented dipoles through multilayered shields
[AD-A137129] 10 p1478 N84-19660
Synthesis of offset dual shaped subreflector antennas for control of Cassegrain aperture distributions
[AD-P003517] 21 p3385 N84-31485
The effect of fluids on waveguides below cutoff penetrations as related to electromagnetic shielding effectiveness
[AD-A144685] 24 p3896 N84-34670
Monolithic microwave integrated circuit devices for active array antennas
[NASA-CR-173981] 24 p3897 N84-34675
MITYAKOV, V. Y.
Effect of rotation on thermal state of runner blade through effect on heat transfer on coolant side
13 p1970 N84-22787
MIURA, H.
Normal reflection of a shock wave at a rigid wall in a dusty gas
[UTIAS-274] 12 p1815 N84-21829
Formation of a shock wave in a dusty gas by a moving piston
[UTIAS-275] 14 p2145 N84-23853
MIURA, K.
Design and operation of a deployable truss structure
15 p2347 N84-25082
MIWA, M.
Large scale fire test of cable installed in tunnels
11 p1727 N84-21263
MIWA, S.
Screening and classification of ceramic powders
[NASA-TM-77092] 06 p0809 N84-15270
MIX, L. P.
Applied-B ion diode experiments on PBFA 1
[DE83-017792] 03 p0447 N84-12942
Diagnosing the ion beam on the applied-B diode
[DE83-017822] 03 p0447 N84-12943
Hybrid ion diode theory and computations
[DE84-000102] 04 p0610 N84-14029
MIXON, L. C.
Transmitted thrust on a large dual rail rocket sled system
[AD-A137151] 11 p1621 N84-20608
MIXSON, J. S.
Investigation of fuselage acoustic treatment for a twin-engine turboprop aircraft in flight and laboratory tests
[NASA-TM-85722] 07 p1069 N84-16947
MIYABE, H.
Heat transfer characteristics of regenerator matrix (case of packed wire gauzes)
[NASA-TM-77448] 24 p3899 N84-34693
MIYAGAWA, S.
Energy dependence of the yields of ion-induced sputtering of monatomic solids
[IPPJ-AM-32] 07 p1076 N84-16992
MIYAKE, C. I.
Performance verification tests of an uprated augmented catalytic thruster 20 p3136 N84-29911
Radiative resistojet performance characterization tests
[NASA-CR-174763] 23 p3701 N84-33462
MIYAKE, N.
Proceedings of the Conference on Joint Problem Solving and Microcomputers
[AD-A135001] 08 p1211 N84-17901
MIYAKE, R. N.
Starprobe thermal shield evolution
10 p1448 N84-19462
MIYAKODA, K.
The FGGE level 3-B daily global analyses, part 1
[PB83-221051] 01 p0109 N84-10709
FGGE level 3-B daily global analyses. Part 2: (Mar. 1979 - May 1979)
[PB84-100270] 08 p1193 N84-17780
FGGE level 3-B daily global analyses, part 3
[PB84-135854] 10 p1541 N84-20101
Parameterization of the ABL and OBL in a GFDL model, appendix M 18 p2885 N84-28308
MIYAMOTO, N.
All-aluminum-alloy UHV chamber for molecular beam epitaxy, 1 13 p2039 N84-23229
MIYAMOTO, Y.
Design and characteristics of radiating pair cable
11 p1720 N84-21217
MIYANAGA, N.
Bibliography on atomic processes in hot dense plasmas
[IPPJ-AM-29] 03 p0443 N84-12913
MIYANO, K.
Method and apparatus for measuring shear modulus and viscosity of a monomolecular film
[DE84-014502] 23 p3761 N84-33841
MIYAZAKI, Y.
Development of a thermal controller for space application 10 p1445 N84-19437
MIYOSHI, K.
Friction and morphology of magnetic tapes in sliding contact with nickel-zinc ferrite
[NASA-TP-2267] 07 p0977 N84-16334
Metallic glass as a temperature sensor during ion plating
[NASA-TM-83566] 08 p1130 N84-17351
Tribological characteristics of gold films deposited on metals by ion plating and vapor deposition
[NASA-TM-83572] 08 p1130 N84-17352
Water-vapor effects on friction of magnetic tape in contact with nickel-zinc ferrite
[NASA-TP-2279] 09 p1286 N84-18399
Ceramic wear in indentation and sliding
[NASA-TM-83585] 10 p1465 N84-19566
Mechanical contact induced transformation from the amorphous to the crystalline state in metallic glass
[NASA-TM-83583] 11 p1632 N84-20673
Friction and wear of iron in sulfuric acid
[NASA-TP-2289] 12 p1796 N84-21716
Friction and wear of nickel in sulfuric acid
[NASA-TP-2290] 12 p1797 N84-21721
Considerations in friction and wear
14 p2154 N84-23903
Interaction of sulfuric acid corrosion and mechanical wear of iron
[NASA-TM-83717] 18 p2813 N84-27857
Properties of ferrites important to their friction and wear behavior
[NASA-TM-83718] 19 p2997 N84-28994
Effects of water-vapor on friction and deformation of polymeric magnetic media in contact with a ceramic oxide
[NASA-TM-83727] 20 p3161 N84-30072
Microstructure and surface chemistry of amorphous alloys important to their friction and wear behavior
[NASA-TM-83762] 22 p3555 N84-32508
MIYOSHI, Y.
Synthesis method for ternary logic function based on NAND-type polypheck
[AD-P002348] 14 p2192 N84-24139
MIZERA, P. F.
A review of SCATHA satellite results: Charging and discharging 08 p1115 N84-17254
Laboratory and space measurements of materials
[AD-P002113] 16 p2523 N84-26199
MIZIN, V. G.
The controlling reactions during interaction between silicon and carbon
[BLL-M-35673-(5828.4)] 22 p3545 N84-32444
MIZOGUCHI, A.
Two-way unidirectional condenser microphone
[NHK-LABS-NOTE-297] 20 p3177 N84-30175
MIZUKOSHI, T.
Mass transfer during drop formation in the presence of interfacial turbulence in the liquid-liquid systems
[BLL-DOUNREAY-TR-923-(9091.9F)]
09 p1311 N84-18568
MIZUMOTO, C.
Photon correlation spectroscopy and applications
22 p3683 N84-33352
MIZUMOTO, K.
A study on airborne integrated display system and human information processing
[NASA-TM-77338] 06 p0891 N84-15789
MIZUNO, K.
Annual and interannual variability in the Kuroshio Current System
[AD-P002665] 11 p1691 N84-21030
MIZUTA, Y.
On the boundary limits of harmonic functions with gradient in L sup p 22 p3634 N84-33030
MIZYAKINA, T. A.
Coordinated X-ray and ultraviolet observations of RU Lupi 24 p3978 N84-35199
MLAKAR, P. F.
Concrete behavior under dynamic tensile-compressive load
[AD-A141735] 19 p3036 N84-29255
MLYNEK, J.
Critical slowing down and magnetically-induced self-pulsing in a sodium-filled Fabry-Perot resonator
14 p2240 N84-24449
MNATSAKANYAN, E. A.
Optoelectronic programmable logic arrays
24 p3941 N84-34948
MNICH, T. M.
Radiation testing of the CMOS 8085 microprocessor family
[DE83-014604] 02 p0271 N84-11771
MO, J.
Hot central stars in planetary nebulae
24 p3977 N84-35193
MO, J. E.
Interstellar and nebular absorption lines in planetary nebulae 24 p3973 N84-35162
MO, K. C.
Localized blocking accounted for by slow variations of the zonal driving 12 p1855 N84-22083
Teleconnection patterns in the Southern Hemisphere
12 p1855 N84-22084
Forced stationary solutions in a barotropic channel: Multiple equilibria and theory of nonlinear resonance
12 p1856 N84-22089
MO, T.
Effects of vegetation canopy on the radar backscattering coefficient
[NASA-TM-85070] 02 p0208 N84-11359
MOAK, C. D.
Generation of monoenergetic positrons
[DE83-015535] 03 p0440 N84-12887
MOATS, R.
Curve fit technique for a smooth curve using Gaussian sections
[AD-A132499] 04 p0589 N84-13893
MOATS, R. K.
Rapid runway repair program subtask 1.07 - rapid concrete cutting
[AD-A131771] 03 p0338 N84-12195
MOAZED, A.
Modular stellarator reactor: A Fusion power plant
[DE84-002268] 07 p1077 N84-17001
MOBRAY, D.
Computer Science and Technology: Proceedings of the 19th Meeting of the Computer Performance Evaluation Users Group (CPEUG)
[PB84-114529] 08 p1210 N84-17892
MOCCI, U.
Economic study of long distance optical fibre links
[FUB-38-1982] 03 p0443 N84-12908
MOCHEL, M. E.
Microstructure and microanalysis in relation to the grain boundary conductivity effect in doped ceria
11 p1741 N84-21358
MOCHIZUKI, K.
Design and test results of optical fiber units for optical submarine cable 11 p1723 N84-21243
MOCHIZUKI, M.
Research and development of long heat pipes and their applications 20 p3170 N84-30126
MOCHRIE, S. G. J.
X-ray diffuse scattering 22 p3682 N84-33341
MOCKAPETRIS, P.
Analysis of reliable multicast algorithms for local networks
[AD-A135807] 09 p1369 N84-18935
Name server design for distributed systems
[AD-A143634] 23 p3812 N84-34173
The domain name system
[AD-A143618] 23 p3817 N84-34201
MOCKENHAUPT, J. D.
Particle impact erosion. Volume 4. User's manual erosion prediction procedure for rocket nozzle expansion region
[AD-A131008] 02 p0186 N84-11209
MODDEMAN, W. E.
Surface compatibility studies of potassium perchlorate reaction with pyrotechnic fuels
[DE84-002829] 08 p1140 N84-17412
Potassium perchlorate reaction with pyrotechnic fuels
[DE84-002840] 08 p1140 N84-17413
MODELL, H. I.
Interaction of anti-G measures and chest wall mechanics in determining gas exchange
[AD-A133740] 06 p0889 N84-15775
MODEN, J. R.
Dual electrochemical system
[AD-D011035] 19 p3051 N84-29361

MODIQ, S.
Investigation of the positioning system at Recal-Decca Survey Ltd. (RDS), London
[FOA-C-20476-D8(E2,E3)] 07 p0950 N84-16162
Test of a system for positioning: Sensitron
[FOA-C-20519-D8] 15 p2336 N84-25023
MODIN, Y.
Effect of sydnocarb on hemodynamics and redistribution of blood during functional tests following six-hour antiorthostatic hypokinesia 07 p1045 N84-16777
Effect of dihydroergotamine on human circulation during orthostatic tests 20 p3253 N84-30646
MODUGNO, E. J., III
The detection of signals in impulsive noise
[AD-A130393] 01 p0062 N84-10409
MOE, R. B.
A questionnaire assessment of estimated radiation effects upon military task performance
[AD-P003254] 18 p2905 N84-28421
A review and evaluation of research concerning the performance effects of nuclear radiation
[AD-P003295] 18 p2908 N84-28445
MOEBIUS, E.
Critical velocity experiments in space
05 p0639 N84-14203
MOECKL, B.
Study of Attitude Control and Guidance System (ACGS) for orbit change stage
[ESA-CR(P)-1797] 08 p1120 N84-17285
MOEHRING, W.
Aerodynamic sound generation by turbulent boundary layer flow along solid and compliant walls
[MPIS-116/1983] 13 p2040 N84-23239
MOEK, G.
Comparison of some software reliability models for simulated and real failure data
[NLR-MP-83032-U] 17 p2754 N84-27481
MOELL, L.
A controller for frequency hopping, with a frequency synthesizer
[FOA-C-30350-E4] 10 p1489 N84-19739
MOELLER, C.
Analysis of the output mode from 60 GHz, 200 kW pulsed and CW gyrotrons
[DE84-004586] 10 p1497 N84-19785
MOELLER, C. P.
Advanced ICRF launchers for heating and current drive in large Tokamaks
[DE84-009092] 19 p3108 N84-29750
MOELLER, M.
Heat pipes made of roll bond panels
[BMFT-FB-T-83-116] 02 p0242 N84-11588
Amorphous silicon solar cells
[BMFT-FB-T-83-112] 02 p0243 N84-11590
MOELLER, R. P.
Analog fiber gyro with extended linear range
[AD-D011009] 19 p2962 N84-28771
MOEN, I. O.
Influence of diluents and inhibitors on detonations
[DE84-006300] 22 p3548 N84-32463
MOENG, C. H.
Simulations of the stratocumulus-topped boundary layer with a third-order closure model
12 p1857 N84-22098
MOERDER, D. D.
Research on output feedback control of systems with ill-conditioned dynamics
[NASA-CR-173921] 22 p3639 N84-33071
MOERGENTHALER, K. D.
Ceramic components for gas turbines, phase 2
[BMFT-FB-T-83-196] 08 p1105 N84-17163
MOERL, P.
Mapping of Arctic haze using airborne lidar
24 p3907 N84-34746
MOERTBERG, B.
Viking satellite thermal control analytical verification and test 10 p1441 N84-19410
MOESCHBERGER, M. L.
Effects of assuming independent component failure times, if they are actually dependent, in a series system
[AD-A136567] 09 p1327 N84-18667
MOESER, W.
Mapping of global radiation from Meteosat image data
10 p1536 N84-20065
Global radiation from satellite measurements
[MITT-37] 18 p2867 N84-28200
MOET, A.
Crack propagation in polystyrene under fixed elongation
[AD-A134749] 08 p1138 N84-17399
MOEZZI, S.
A simulation study of scene confusion factors in sensing soil moisture from orbital radar
[E84-10042] 04 p0552 N84-13635
Mapping and monitoring renewable resources with space SAR 07 p0968 N84-16403
MOFFAT, A.
Design and development of a high-concentration and high-effieciency photovoltaic concentrator using a curved Fresnel lens
[DE84-000967] 04 p0558 N84-13679
MOFFAT, R. J.
Use of superposition in calculating cooling requirements for circuit cards containing arrays of electronic components
[DE83-016091] 03 p0373 N84-12428
Experimental mixed-convection heat transfer from a large, vertical surface in a horizontal flow
[DE83-016419] 03 p0373 N84-12429
MOFFATT, D. L.
Analysis of electromagnetic backscatter from an inlet cavity configuration
[AD-A133626] 05 p0669 N84-14400
Transient current density waveforms on a perfectly conducting sphere
[AD-A135862] 09 p1300 N84-18500
Approximate methods for obtaining the complex natural electromagnetic oscillations of an object
[AD-A143913] 23 p3821 N84-34229
MOFFATT, R. J.
Experimental mixed convection heat transfer from a large, vertical surface in a horizontal flow
[HMT-36] 14 p2146 N84-23864
MOFFITT, T. P.
Performance of a high-work low aspect ration turbine tested with a realistic inlet radial temperature profile
[NASA-TM-83655] 15 p2262 N84-24589
MOGI, A.
Characteristics of heat and flame resistant optical fiber cables 11 p1726 N84-21260
MOGILEVSKII, V. M.
Coatings on diamond and CBN abrasives (review of inventions)
[CSIR-TRANS-1742] 22 p3557 N84-32525
MOGK, D. W.
Development of the Earth's early crust: Implications from the Beartooth Mountains 11 p1679 N84-20959
The petrology, structure and geochemistry of an Archean terrane in the North Snowy Block, Beartooth Mountains, Montana 22 p3620 N84-32940
MOGNARD, N. M.
Wind, waves and swell in the Antarctic marginal ice zone by SEASAT radar altimeter 14 p2161 N84-23941
Comparison of sea surface wind speed fields by SEASAT radar altimeter, scatterometer and scanning multichannel microwave radiometer with an emphasis on the Southern Ocean 23 p3774 N84-33922
MOGUTOV, S. S.
Adrenal-hypothalamus-pituitary system reactions in rats cooled in a hypoxic-hypercapnic gas atmosphere
20 p3254 N84-30655
MOHANTY, A. K.
Matter antimatter domains: A possible solution to the CP domain wall problem in the early universe
[NASA-TM-86100] 15 p2425 N84-25565
MOHANTY, S. G.
Applications of combinatorics to the busy period in several queueing models
[AD-A142492] 20 p3284 N84-30850
MOHLER, J. H.
Dynamic thermography of thermite chemical heat sources
[DE84-002837] 07 p0971 N84-16291
Integral low-energy thermite igniter
[DE84-011082] 20 p3150 N84-29999
MOHLER, R. R.
Passive source localization from spatially correlated angle-of-arrival data
[AD-A133141] 06 p0822 N84-15362
A 2-step bilinear filtering approximation
[AD-A138350] 12 p1894 N84-22338
Bayes least squares linear regression is asymptotically full Bayes: Estimation of spectral densities
[AD-A138351] 12 p1897 N84-22352
On a simple adaptive tracking filter
[AD-A138955] 13 p2033 N84-23186
Undersea sound speed and range estimation
[AD-A138954] 13 p2040 N84-23237
Nonlinear observability and mixed-coordinate bearing-only signal processing
[AD-A141824] 19 p3088 N84-29603
Hierarchial command, control and coupled bilinear systems
[AD-A142401] 20 p3280 N84-30823
State estimation and control of conditionally linear systems
[AD-A142455] 20 p3281 N84-30826
MOHLIN, T.
An X-ray radiography study of delamination growth in notched carbon/epoxy laminates
[FFA-TN-1983-29] 03 p0386 N84-12516
Delamination growth in notched graphite/epoxy laminates under compression fatigue loading
[FFA-TN-1983-57] 15 p2284 N84-24713
MOHNEN, V.
Tropospheric chemistry 20 p3218 N84-30441
MOHR, G. C.
Hydrazine toxicology: Impact on safety and health in military aviation 22 p3631 N84-33013
MOHR, K. P.
Carbide precipitation in nickel-base model alloys and its influence on ductility and fracture behavior at room temperature
[JUEL-1845] 05 p0657 N84-14319
MOHR, P. B.
Flywheel rotor and containment technology development, FY83
[DE83-017615] 04 p0545 N84-13589
Flywheel rotor and containment technology development
[DE84-005742] 11 p1665 N84-20864
MOHRMAN, A. M., JR.
Performance appraisal revisited
[AD-A132841] 06 p0932 N84-16059
Motivation and performance appraisal behavior
[AD-A134311] 08 p1203 N84-17842
MOHSEN, M.
Temperature dependence of the electric-field gradient in Er metal
[DE83-015564] 03 p0454 N84-12989
MOHTAI, T.
Research and development of long heat pipes and their applications 20 p3170 N84-30126
Study of latent heat storage system used heat pipes for cooling of underground cables
20 p3170 N84-30127
MOIN, P.
Computation of turbulent flows over backward-facing step
[NASA-TM-85851] 03 p0371 N84-12414
Application of a fractional-step method to incompressible Navier-Stokes equation
[NASA-TM-85898] 12 p1893 N84-22328
The structure of the vorticity field in turbulent channel flow. Part 1: Analysis of instantaneous fields and statistical correlations
[NASA-TM-86019] 22 p3593 N84-32753
MOINI, S.
Preliminary study for the modeling of an artificial icing cloud
[AD-A135717] 09 p1349 N84-18813
MOIR, R. W.
Comparison of compression properties and swelling of beryllium irradiated at various temperatures
[DE84-000597] 04 p0500 N84-13277
MOISEYENKO, Y. N.
Synthesis of devices for optimum processing of signals in low-altitude radio altimeter 17 p2630 N84-26826
MOISEYEV, I. G.
Three-element radiointerferometer with very long baselines 19 p2974 N84-28853
MOK, A. K. L.
Fundamental design problems of distributed systems for the hard real-time environment
[AD-A139996] 15 p2392 N84-25358
MOKASHI, A. R.
High-speed growth of silicon crystals: Flat-plate solar array perspective 18 p2935 N84-28615
MOKHOV, I. I.
Vertical temperature gradient in troposphere and its relationship to surface temperature according to empirical data 11 p1671 N84-20902
Temperature response of cryosphere area in northern hemisphere 18 p2856 N84-28138
Effect of antiscreening of outgoing thermal radiation by cloud cover 20 p3224 N84-30490
MOKRY, M.
Two-dimensional wind tunnel wall interference
[AD-A138964] 11 p1603 N84-20499
Prediction of resonance frequencies for ventilated wall wind tunnels 14 p2097 N84-23580
MOKRYY, S. V.
Experimental study of stress-deformed state of three-layer shells made with anisotropic high-module composite materials 24 p3868 N84-34514
MOKUANG, K.
A study of the tempering transformation of retained austenite in isothermal quenching structures, bainite tempered embrittlement 20 p3159 N84-30065
MOL, A.
West breakwater-Sines (Portugal): Study of armor stability 08 p1194 N84-17788
West breakwater-Sines (Portugal): New aspects of armor units 08 p1195 N84-17789
MOLARI, R.
Guidelines for testing and release procedures
[NASA-CR-166581] 21 p3464 N84-31962

MOLARO, P.
Use of high resolution IUE spectra of MG 2 in cool stars to probe the local interstellar medium
24 p3973 N84-35156
An upper limit to the Beryllium abundance in the population 2 star HD 140283 from a high resoluion IUE spectrum 24 p3974 N84-35167
IUE spectra of three A0 V stars rotating close to their break-up velocity: HD 119921, HD 129685, HD 181296
24 p3975 N84-35172
A study of mass accretion in Algol from high resolution IUE spectra 24 p3980 N84-35213
MOLCHANOV, A. A.
New types of transient processes observed in electromagnetic sounding 18 p2860 N84-28164
MOLDOVAN, N.
The design of a low loss light-weight s-band phase shifter
[AD-P003406] 19 p3015 N84-29110
The mechanical design of a high-power, dual frequency, millimeter-wave antenna feed system
[AD-P003409] 19 p3015 N84-29113
MOLEN, G. M.
An investigation of accelerating mechanisms in a plasma focus relevant to interrupting switches
[AD-A133462] 06 p0920 N84-15983
MOLENAAR, M.
Several aspects of the sequential processing of photogrammetric bundle blocks
16 p2505 N84-26077
MOLER, C. B.
EISPACK: A package for solving matrix eigenvalue problems
[DE84-005408] 11 p1717 N84-21197
MOLES, C.
FAA (Federal Aviation Administration) aviation forecasts -Fiscal Years 1984-1995
[AD-A138759] 13 p1929 N84-22549
MOLINARI, R. L.
Current velocity profiles in the Straits of Florida from the Pegagus current profiler: Subtropical Atlantic Climate Study 1982
[PB84-154335] 14 p2183 N84-24084
MOLION, L. C. B.
A study of the surface layer on an extremely rough surface
[INPE-2829-PRE/381] 02 p0248 N84-11621
On the estimation of zero-plane displacement for tall vegetation
[INPE-2946-PRE/430] 07 p1023 N84-16634
The water balance and climate
[INPE-2997-PRE/449] 12 p1859 N84-22114
Observations of radiation exchange above and below Amazonian forest
[INPE-3194-PRE/558] 21 p3447 N84-31870
On the use of meteorologic satellites in hydrology
[INPE-2879-PRE/404] 23 p3763 N84-33851
A national program for data collection platforms: Information techniques for users
[INPE-3137-NTE/219] 24 p3858 N84-34456
MOLISHEVER, E. L.
Flow visualizations, velocity measurements, and surface convection measurements in simulated 20.8-cm Nova box amplifier cavities
[DE84-004354] 10 p1501 N84-19812
MOLKI, M.
Turbulent tube-flow heat transfer coefficients in the presence of flow imbalance in the tubes of a parallel array 03 p0374 N84-12437
MOLL, J. H.
Process for producing parts with deep pocketed precision cavities using P/M shape technology
[DE84-006566] 12 p1799 N84-21733
MOLLAN, L. W.
A circulation meter for the measurement of discrete vortices
[BU-300] 15 p2256 N84-24551
MOLLO-CHRISTENSEN, E.
Remote sensing of air-sea interactions
17 p2712 N84-27267
MOLLOW, B. R.
Quantum optics and photonics
22 p3682 N84-33344
MOLLOY, J. W.
Design and testing of scaled ejector-diffusers for jet engine test facility applications
[AD-A136745] 10 p1432 N84-19364
MOLNAR, A. J.
Nonlinear coupling responses to variable frequency excitations 10 p1515 N84-19920
Simple approximate models for a class of structures
10 p1515 N84-19921
MOLNAR, P.
Tectonic deformation of the Andes and the configuration of the subducted slab in central Peru: Results from a micro-seismic experiment
[NASA-CR-175445] 11 p1681 N84-20972
MOLODENSKIY, S. M.
Gravity field response to elastic deformations of Earth
18 p2862 N84-28172
MOLOFSKY, J.
Assessment of temporal dynamics of selected terrestrial carbon pools
[DE84-009850] 19 p3059 N84-29410
MOLOKANOV, V. V.
Electrochemical behavior of amorphous titanium-based alloy after various annealing conditions
24 p3875 N84-34555
MOLONEY, J. V.
Self-defocusing and optical crosstalk in a bistable optical etalon 14 p2234 N84-24403
Routes to optical turbulence in a dispersive ring bistable cavity containing saturable nonlinearities
14 p2234 N84-24404
Transverse solitary waves in a dispersive ring bistability cavity containing a saturable nonlinearity
14 p2240 N84-24446
MOLONEY, M. J.
Gallium arsenide field-effect transistor magnetic field studies
[AD-A144058] 23 p3742 N84-33721
MOLOTILOV, B. V.
Amorphous materials from precision alloys
[BLL-M-35179-(5828.4)] 01 p0041 N84-10264
Specifics of processes of deformation and microfracture of amorphous iron-based alloys
12 p1788 N84-21662
MOLOTOV, Y. P.
Three-element radiointerferometer with very long baselines 19 p2974 N84-28853
MOLT, W.
Flat plate heat pipe collectors made by roll bonding
[BMFT-FB-T-83-202] 10 p1495 N84-19778
MOLZ, F. J.
Design, performance, and analysis of an aquifer thermal-energy-storage experiment using the doublet-well configuration
[DE84-001811] 10 p1529 N84-20019
MOM, A. J. A.
Corrosion and corrosion prevention in gas turbines
[NLR-MP-82048-U] 10 p1431 N84-19355
Operating conditions and materials selection and development in gas turbines
[NLR-MP-81012-U] 17 p2610 N84-26705
MOMENI, A. M.
Strength of composite beams with eccentric, reinforced, rectangular web openings 17 p2679 N84-27063
MOMENT, R. L.
Performance and size estimating for wind systems
[DE84-006980] 13 p2009 N84-23033
MON, G. R.
Observations of solar-cell metallization corrosion
12 p1839 N84-21988
Laboratory experience with voltage breakdown
22 p3583 N84-32693
MONACO, W. A.
Ultrastructural evaluation of the retina in retinopathy of prematurity and correlations with vitamin E therapy
[AD-A135929] 10 p1547 N84-20143
Distribution of visual characteristics of Naval aviation personnel
[AD-A135930] 10 p1547 N84-20144
MONAGHAN, R. C.
Inflatable device for installing strain gage bridges
[NASA-CASE-FRC-11068-1] 03 p0375 N84-12443
MONAHAN, R. H.
Artificial Intelligence-Robotics applications to Navy aircraft maintenance
[AD-A143219] 22 p3529 N84-32345
MONALDO, F. M.
Tracking ocean wave spectrum from SAR images
17 p2714 N84-27277
Altimeter height measurement errors introduced by the presence of variable cloud and rain attenuation
17 p2716 N84-27289
Improved resolution rain measurements from spaceborne radar altimeters 17 p2716 N84-27290
Comparison of ocean wave energy measured by SEASAT synthetic aperture radar with SAR surface wave imaging theories 23 p3771 N84-33908
MONAN, W. P.
Addressee errors in ATC communications: The call sign problem
[NASA-CR-166462] 11 p1603 N84-20501
Cleared for the visual approach: Human factor problems in air carrier operations
[NASA-CR-166573] 17 p2603 N84-26679
MONASEVICH, L. A.
Attachment for an X-ray diffractometer for studying transformations in materials 24 p3868 N84-34513
MONCRIEFF, M. W.
A dynamical basis for the parameterization of organized deep convection in large-scale numerical models
12 p1859 N84-22111
MONCUR, M. V.
An improved acrylic sheet material with enhanced craze resistance
[AD-P003203] 17 p2592 N84-26616
MOND, B.
Interacting weights in multiple attribute decision making
[CSIR-TWISK-270] 04 p0586 N84-13874
MONDELLI, A.
Research on intense electron beams and applications
[AD-A134068] 05 p0743 N84-14882
Plasma physics issues in advanced simulation research
[AD-A139628] 15 p2410 N84-25465
A Bumpy Torus betatron
[AD-A141840] 19 p3107 N84-29742
MONDT, J. P.
Recent results from the ZT-40M reversed-field pinch program
[DE83-014149] 01 p0151 N84-10993
Thermal instabilities in the edge region of reversed-field pinches
[DE84-013861] 22 p3659 N84-33196
MONES, E. T.
Cure reactions, network structure and mechanical response of diaminodiphenyl sulfone cured tetraglycidyl 4,4'diaminodiphenyl methane
[DE84-012607] 22 p3561 N84-32548
MONET, D. G.
A next generation microdensitometer?
18 p2842 N84-28044
MONEY, K. E.
An unusual toxicological property of alcohol: The density effect on the organ of balance 22 p3632 N84-33016
MONFILS, A.
Catalogue of stellar ultraviolet fluxes. A compilation of absolute stellar fluxes measured by the Sky Survey Telescope (S2/68) aboard the ESRO satellite TD-1
15 p2423 N84-25558
MONGIA, H.
Executive summary, aerothermal modeling program, phase 1
[NASA-CR-174602] 03 p0348 N84-12263
Aerothermal modeling program, phase 1
[NASA-CR-168243-VOL-1] 03 p0348 N84-12264
Aerothermal modeling program, phase 1
[NASA-CR-168243-VOL-2] 03 p0348 N84-12265
An experimental investigation of gas jets in confined swirling air flow
[NASA-CR-3832] 23 p3694 N84-33412
MONGIA, H. C.
An experimental investigation of gas jets in confined swirling air flow
[NASA-CR-3832] 23 p3694 N84-33412
MONIZ, W. B.
EPR spectroscopy of thermally initiated free radicals in RDX
[AD-A133976] 05 p0646 N84-14251
MONK, D. L.
A test of Fitts' law in two dimensions with hand and head movements
[AD-A133347] 07 p1051 N84-16810
MONK, H.
Airfield delay simulation model (ADSIM) users guide
[PB84-171552] 17 p2611 N84-26715
MONKS, S. A.
Preliminary assessment of a rotary detonation engine concept
[AD-A137492] 10 p1431 N84-19354
MONMA, M.
Non-metallic optical cable with optical fiber catenary for long span aerial application 11 p1722 N84-21235
MONNERIE, B.
Report by the Chairman of the Fluid Dynamics Panel
12 p1763 N84-21499
MONNIER, P.
State of techniques for crackling varnishes and problems posed by their application
[CETIM-1.5C.23.1] 21 p3424 N84-31723
MONOSMITH, W. B.
Temperature dependence of the Raman OH-stretching overtone from liquid water
[AD-A143131] 21 p3359 N84-31305
MONROE, L. J.
Effect of data latency upon missile accuracy
[AD-A138048] 12 p1778 N84-21600

MONSER, G. J.
Designing antennas to price; or the economics of antenna design
[AD-P003412] 19 p3015 N84-29116
MONSON, C. B.
Mechanisms of thermoregulation of rats exposed to hypergravic fields 22 p3628 N84-32989
MONSON, S. J.
A second kind of Beam-Plasma Discharge (BPD): Rocket and laboratory results 05 p0697 N84-14193
MONTA, W. J.
Supersonic loads due to shuttle-orbiter/external-tank attachment structures 01 p0019 N84-10122
MONTANA, D. M.
Range-only multistatic radar system
[AD-D011201] 24 p3896 N84-34671
MONTANA, P. S.
A time domain analysis of a rigid two-bladed fully gimballed helicopter rotor with circulation control
[AD-A136947] 10 p1422 N84-19296
Use of helicopters to develop operational concepts for V/STOL (vertical and short takeoff and landing) aircraft in naval missions
[AD-A139354] 14 p2105 N84-23624
MONTANEGRO, C.
Ada-Europe guidelines for the portability of Ada programs, second edition
[NPL-DITC-27/83] 03 p0419 N84-12739
MONTANUS, H. C. A.
Coupling of the program OPTIMA to the pre and post processor SUPERTAB
[IWECO-5074403-100-83-1] 18 p2922 N84-28532
MONTEITH, J. H.
A comparison of two photogrammetric algorithms for the measurement of model deformation in the National Transonic Facility
[NASA-TM-85830] 18 p2919 N84-28513
MONTES, A.
Synthesis of MIG-type electron guns for gyrotrons
[INPE-3191-PRE/555] 21 p3391 N84-31517
Ray tracing study of electron cyclotron heating in the TBR 2 Tokamak
[INPE-3192-PRE/556] 21 p3500 N84-32181
MONTGOMERY, A.
Ada-Europe guidelines for the portability of Ada programs, second edition
[NPL-DITC-27/83] 03 p0419 N84-12739
MONTGOMERY, D.
Theory of hydromagnetic turbulence
03 p0467 N84-13077
Applications of spectral methods to turbulent magnetofluids in space and fusion research
[NASA-CR-173665] 17 p2757 N84-27505
Introduction to the theory of fluid and magnetofluid turbulence
[IPPJ-670] 17 p2766 N84-27565
MONTGOMERY, D. B.
Passive and active circuits for vertical plasma stabilization
[DE84-008857] 18 p2933 N84-28599
MONTGOMERY, D. R.
The use of satellite observations of the ocean surface in commercial fishing operations
[AD-P003120] 16 p2533 N84-26261
MONTGOMERY, E. E.
Bearing tester data compilation, analysis and reporting and bearing math modeling, volume 1
[NASA-CR-171039] 15 p2340 N84-25046
MONTGOMERY, R. C.
Space Shuttle separate-surface control-system study
[NASA-TP-2340] 19 p2967 N84-28801
MONTOYA, L. C.
F-111 TACT natural laminar flow glove flight results
18 p2783 N84-27662
KC-135 wing and winglet flight pressure distributions, loads, and wing deflection results with some wind tunnel comparisons 18 p2787 N84-27688
MONTOYA, O. J.
High temperature adhesive silicone foam composition, foam generating system and method of generating foam
[DE84-014315] 23 p3725 N84-33605
MONTOYA, P. C.
Examination of frontal development during a dry forward combustion
[DE84-008304] 15 p2288 N84-24726
MONTROLL, E. W.
Scattering of waves by irregularities in periodic discrete lattic spaces. Part 2: Calculations
[AD-A130665] 01 p0140 N84-10917
MONTRY, G. R.
Using inner-shell X-rays as an ion-beam diagnostic
[DE83-017784] 03 p0436 N84-12857
MONTY, M. L.
User centered system design
[AD-A136131] 09 p1364 N84-18907
MOODIE, W. J.
Batch and continuous recrystallization of secondary explosives
[DE84-009735] 19 p3002 N84-29024
MOODY, H. L.
Heat transfer measurements in cold wind tunnels
[AD-A135740] 09 p1315 N84-18591
MOOERS, C. N. K.
Sound propagation through a moderate coastal upwelling: Comparison of modeling prediction with experimental data
[AD-A133782] 05 p0742 N84-14876
Hydrographic data from the OPTOMA (Ocean Prediction Through Observations, Modeling and Analysis) program OPTOMA2, legs I and II, 31 July - 14 August, 1982
[AD-A141547] 19 p3061 N84-29424
Hydrographic data from the OPTOMA (Ocean Prediction Through Observations, Modeling and Analysis) program: OPTOMA1, 8 to 13 March 1982
[AD-A141666] 19 p3061 N84-29425
MOOK, D. R.
The numerical synthesis and inversion of acoustic fields using the Hankel transform with application to the estimation of the plane wave reflection coefficient of the ocean bottom
[AD-A133156] 06 p0908 N84-15901
Digital signal processing 22 p3684 N84-33357
MOOK, H. A.
Neutron-scattering studies of magnetic superconductors
[DE84-000393] 04 p0614 N84-14054
Introduction to neutron scattering by magnetic excitations
[DE84-008579] 20 p3293 N84-30904
MOOKERJEE, A.
Electrical conductivity in random alloys
[DE84-701207] 24 p3884 N84-34611
MOON, D. P.
Determination of elemental intensities from direct Auger spectra by pre-filtered least squares fitting
[AERE-R-11226] 18 p2927 N84-28561
MOON, F. G.
The relationship between electrical conductivity and temperature of aviation turbine fuels containing static dissipator additives
[AD-A135751] 09 p1290 N84-18421
MOON, K. J.
Three-dimensional vorticity procedure interactions in combustion instability analysis of solid propellant rocket motors 13 p1945 N84-22647
MOON, R. M.
Solid-State Division
[DE84-000296] 04 p0613 N84-14045
MOON, W.
On the hydrodynamic corrections of SEASAT-ALT data and geodynamic application 23 p3777 N84-33945
MOONEY, A. L.
The aerodynamic effects of cavities in a body
[BU-289] 15 p2256 N84-24547
MOONEY, J. B.
Spray pyrolysis of cadmium sulfide/copper indium selenide cells
[DE84-004491] 20 p3235 N84-30537
MOORADIAN, A.
Laser remote sensing of atmospheric pollutants
[AD-A130259] 01 p0103 N84-10670
MOORADIAN, G. C.
Blue-green propagation through clouds
15 p2323 N84-24949
MOORE-EDE, M. C.
Symposium on mathematical modeling of circadian systems
[AD-A133636] 05 p0713 N84-14673
MOORE, B.
Deforestation measured by LANDSAT: Steps toward a method
[DE83-016845] 04 p0554 N84-13652
MOORE, B. N.
Theoretical studies on free electron lasers
[AD-A136333] 09 p1321 N84-18627
MOORE, B., III
Global biogeochemistry: An overview
20 p3217 N84-30435
MOORE, C. A.
In situ characterization of seawater using a computerized suite of optical instruments 06 p0872 N84-15675
MOORE, C. F.
Performance feedback effects under varying conditions of goals, feedback type, and choice
[AD-A136703] 10 p1550 N84-20157
MOORE, C. J.
On the estimation of zero-plane displacement for tall vegetation
[INPE-2946-PRE/430] 07 p1023 N84-16634
A new 48 D.O.F. quadrilateral shell element with variable-order polynomial and rational B-spline geometries with rigid body modes 17 p2678 N84-27058
Daily variations of temperature and humidity within and above Amazonian forest
[INPE-3196-PRE/560] 21 p3447 N84-31869
Observations of radiation exchange above and below Amazonian forest
[INPE-3194-PRE/558] 21 p3447 N84-31870
MOORE, D. H., II
Statistical analysis of high SCE frequency cells in human lymphocytes
[DE84-005433] 11 p1693 N84-21042
MOORE, D. M.
Solar Total Energy Project (STEP) performance analysis of high temperature energy storage subsystem
18 p2874 N84-28249
MOORE, D. P.
Navy mobility fuels evaluation
[AD-A144171] 24 p3890 N84-34630
MOORE, D. S.
Coherent Anti-Stokes Raman Scattering (CARS) detection or hot atom reaction product internal energy distributions
[DE83-012684] 01 p0142 N84-10936
Fast, non-linear optical-scattering spectroscopy in shock-compressed organic liquids
[DE83-007548] 01 p0148 N84-10972
Raman spectroscopies in shock-compressed materials
[DE83-014170] 02 p0190 N84-11236
Single-pulse coherent Raman spectroscopy in shock-compressed benzene
[DE83-014140] 02 p0219 N84-11433
Optical diagnostics for condensed-phase shock-compressed molecular systems
[DE84-001172] 06 p0845 N84-15510
MOORE, D. T.
10.6 micrometer gradient index optical component design
[AD-A141343] 18 p2932 N84-28594
MOORE, E. F.
Numerical procedure for an inviscid stability analysis of an axisymmetric jet
[PB83-224071] 01 p0083 N84-10537
MOORE, F. K.
Theory of rotating stall of multistage axial compressors 16 p2489 N84-25964
MOORE, G. W. K.
On the structure of the narrow cold-frontal rainband
16 p2532 N84-26254
MOORE, H. F.
Refining of military jet fuels from shale oil. Part 4. Process computer modeling studies
[AD-A128891] 01 p0052 N84-10334
MOORE, H. J.
Martian dust storms witnessed by Viking Lander 1
13 p2081 N84-23487
MOORE, J.
Flow trajectories, mixing and entropy fluxes in a turbine cascade 07 p0955 N84-16193
MOORE, J. A.
Bibliography of research reports and publications issued by the Toxic Hazards Division, 1957-1982
[AD-A133637] 05 p0713 N84-14672
MOORE, J. G.
Airglow morphology during an ionospheric heating experiment at Platteville, Colorado
[AD-A137869] 11 p1682 N84-20976
F-layer ionization patches in the polar cap
[AD-A138633] 13 p2011 N84-23044
MOORE, J. S.
A mechanical proof of the turing completeness of pure LISP
[AD-A130625] 01 p0121 N84-10785
Proof-checking, theorem proving and program verification
[AD-A130638] 01 p0123 N84-10799
A fully automatic proof of an ordered tree insertion function
[AD-A130720] 01 p0133 N84-10868
The use of a formal simulator to verify a simple real time control program
[AD-A131732] 03 p0420 N84-12745
Study of systems and technology for liquid hydrogen production independent of fossil fuels
[NASA-CR-173422] 13 p1965 N84-22768
Investigation, development, and evaluation of performance proving for fault-tolerant computers
[NASA-CR-166008] 15 p2385 N84-25307
A formal semantics for the SRI hierarchical program design methodology 15 p2387 N84-25318
On why it is impossible to prove that the BDX90 dispatcher implements a time-sharing system
15 p2387 N84-25319
Defining of the BDX930 assembly language
15 p2387 N84-25320

The use of a formal simulator to verify a simple real time control program 15 p2388 N84-25322
Three lectures on theorem-proving and program verification 15 p2388 N84-25324
Development of solar materials and components 16 p2518 N84-26162
Rehosting the theorem prover [AD-A144356] 24 p3946 N84-34987
Program verification [AD-A144360] 24 p3946 N84-34988
A computational logic with quantifiers [AD-A144335] 24 p3951 N84-35016

MOORE, J. T.
INTERACT execute facility for job scheduling and manipulation [DE84-001653] 05 p0758 N84-14968

MOORE, K. R.
The ISPM solar-wind plasma experiment 09 p1261 N84-18231

MOORE, L. G.
Increased metabolism and dead space as components of ventilation at high altitude [AD-A130827] 06 p0887 N84-15766
Variable inhibition by falling CO2 of hypoxic ventilatory response in man [AD-A130658] 06 p0887 N84-15768

MOORE, L. R., III
An exhaustive analysis of multiplicative congruential random number generators with modulus 2(31)-1 [AD-A143085] 21 p3473 N84-32015

MOORE, M. C.
Kinematic control of robot with degenerate wrist [NASA-TP-2341] 18 p2923 N84-28539

MOORE, M. J.
Measurements in steam turbines 06 p0840 N84-15476

MOORE, M. L.
ONR Far East Scientific Bulletin. Volume 8, no. 3, July - September 1983 [AD-A134272] 08 p1240 N84-18109
ONR (Office of Naval Research) Far East Scientific Bulletin, volume 8, no. 4, October - December 1983 [AD-A138184] 12 p1783 N84-21632
Investigation of organic oxidizers for high performance low flame temperature gas generator applications 13 p1950 N84-22676
ONR (Office of Naval Research) Far East Scientific Bulletin. Volume 9, Number 1, January to March 1984 [AD-A140826] 17 p2770 N84-27589
High performance, low flame temperature nitramine propellant development 20 p3141 N84-29946

MOORE, N.
An assessment of advanced technology for industrial cogeneration [NASA-CR-173456] 12 p1841 N84-22001
Advanced cogeneration research study: Executive summary [NASA-CR-173467] 12 p1841 N84-22005

MOORE, R. B., III
High performance liquid chromatographic studies of the ion exchange selectivity of Nafion [AD-A144646] 24 p3881 N84-34585

MOORE, R. C.
Knowledge representation and natural-language semantics [AD-A135476] 08 p1212 N84-17905

MOORE, R. K.
Interaction of the radar waves with the capillary waves on the ocean [AD-A129690] 01 p0064 N84-10421
Focusing the parabolic antenna [NASA-CR-173304] 08 p1173 N84-17642
Determination of the sources of radar scattering 12 p1832 N84-21941
Determination of the sources of radar scattering 12 p1834 N84-21954
RSRE speech data base recordings (1983). Part 1: Specification of vocabulary and recording procedure [AD-A139361] 15 p2318 N84-24916
Theoretical and experimental study of radar backscatter from sea ice [AD-A139866] 15 p2321 N84-24935
Scanning wind-vector scatterometers with two pencil beams 17 p2713 N84-27271
Nordsee radar backscatter measurements data report [AD-A141914] 20 p3173 N84-30148
Active microwave measurements of sea ice in the marginal ice under summer conditions 23 p3772 N84-33913

MOORE, R. L.
Hydrolytic degradation of Kevlar 49 fibers [DE84-004158] 13 p1954 N84-22705
Matrix-dominated time-dependent deformation and damage of graphite epoxy composite -- experimental data under multiple-step relaxation [AD-A141697] 19 p2986 N84-28920
Quality-assurance tests of five Y-12 Kevlar-49 spools used to fabricate strands and reliability specimens for stress-rupture tests [DE84-012373] 21 p3357 N84-31295

MOORE, R. W.
Program Manager: The Journal of the Defense Systems Management College, volume 13, no. 2, March - April 1984 [AD-A141770] 19 p3114 N84-29789
The 3-D MHD stability of high-beta free-boundary Tokamak plasmas with finite edge-pressure-gradient and limiter stabilization [DE84-009188] 20 p3303 N84-30976

MOORE, S. E.
Experimental stress analysis and fatigue tests of five 12-in NPS ANSI Standard B169 tees [DE84-010280] 18 p2853 N84-28117

MOORE, S. W.
Chemical conversion surfaces for solar-energy applications [DE84-000107] 04 p0558 N84-13681

MOORE, T. A.
Enhanced solar energy collection in porphyrin based photoconversion schemes [DE84-006882] 14 p2173 N84-24015

MOORE, T. C.
Strain gage calibration [NASA-CASE-LAR-12743-1] 18 p2839 N84-28019

MOORE, T. D.
Acoustic and photoelectric burnout detection of T-burner grains 13 p1946 N84-22650

MOORE, T. E.
Plasma jet effects on the ionospheric plasma 05 p0639 N84-14202
Geology, petrology and tectonic significance of the Mesozoic Paleoceanic terranes of the Vizcaino Peninsula, Baja California Sur, Mexico 21 p3436 N84-31810

MOORE, T. L.
Construction and operational experience of the tandem mirror experiment-upgrade (TMX-U) [DE83-018181] 04 p0605 N84-13995

MOORE, W.
Registration of a LANDSAT image to DTM (Digital Terrain Matrix): An error analysis [AD-A141766] 19 p3041 N84-29297

MOORE, W. B.
Ultraviolet-laser triggering of a 5-megavolt multistage gas switch [DE83-013641] 01 p0087 N84-10570

MOORE, W. J.
Analysis of the performance of the free electron bolometer [AD-A134139] 07 p1008 N84-16533

MOORMAN, J. C.
STEP experiment integration 08 p1109 N84-17215

MOORTHI, S.
Baroclinic and barotropic instability with cumulus heating and tropical cyclogenesis 05 p0710 N84-14656

MOOS, F.
Notes on a theory of terrorism [AD-P003242] 18 p2903 N84-28409

MOOSE, P. H.
Lanchester's equations and game theory [AD-P002877] 13 p1978 N84-22838

MOPSIK, F. I.
Pre-existing polarization and influence of electrode materials on PVF2 electrets as determined by thermal pulse and pyroelectric methods [AD-A132896] 05 p0659 N84-14335

MORAAL, J.
Ergonomic aspects of road vehicles. Part 1: A literature survey of some aspects [IZF-1983-15] 18 p2915 N84-28487

MORABITO, D. D.
Results of the Australian geodetic VLBI experiment 04 p0520 N84-13416
Arcsecond positions for milliarcsecond VLBI nuclei of extragalactic radio sources, part 2: 207 sources 16 p2478 N84-25890
Submilliarcsecond VLBI observations of the close pair GC 1342+662 and GC 1342+663 16 p2478 N84-25891

MORACZ, D. J.
Fabrication development for ODS-superalloy, air-cooled turbine blades [NASA-CR-174650] 16 p2450 N84-25711

MORAIS, B. G.
Attitude, control and stabilization 09 p1268 N84-18281

MORALES, G. J.
Solutions of a 4th order differential equation describing mode conversion in a magnetized plasma [AD-A131600] 02 p0281 N84-11840
Ponderomotive effects in nonneutral plasmas [AD-A132109] 04 p0606 N84-13998
Ohmic heating of the polar f-region by HF (High Frequency) pulse [AD-A135946] 09 p1345 N84-18789
Growth rates of parametric instabilities driven by two pumps [AD-A139463] 14 p2229 N84-24364

MORALES, S. M.
Short-term mechanical properties of high-strength light-weight concrete 01 p0059 N84-10387
Spirally-reinforced high-strength concrete columns [PB83-223297] 01 p0059 N84-10388

MORALES, W.
Simulation of lubricating behavior of a thioether liquid lubricant by an electrochemical method [NASA-TP-2316] 14 p2129 N84-23764

MORAN, A. L.
A new engineering approach for cable in fire situations using halogenated polymers 11 p1726 N84-21259

MORAN, C. M.
MMH-nitrate and plume deposits from NTO/MMH engines 13 p1941 N84-22620
Purification of nitrogen tetroxide for long-term reliability 20 p3137 N84-29920

MORAN, H. D.
The transfer of passive research and development results to industry and the user community 16 p2516 N84-26151

MORAN, H. R., JR.
The use of computer ISA (Instruction Set Architectures) and software standards at Westinghouse Defense Electronics Center [AD-P003552] 21 p3334 N84-31156

MORAN, J. M.
Far-IR selected star formation regions [NASA-TM-85955] 16 p2574 N84-26521

MORAN, M. C.
Materials properties data base computerization 12 p1889 N84-22303

MORAN, W. M.
Spectrum resource assessment in the 162-174 MHz frequency band [PB84-210244] 22 p3578 N84-32667

MORAND, H. J. P.
Dynamic analysis of evolutive conservative systems. Discussion of eigenmode crossings [NASA-TM-77052] 24 p3860 N84-34462

MORANDI, M.
The Istituto di Ricerca sulle Onde Elettromagnetiche (IROE)-lidar remote sensing of the environment 03 p0396 N84-12590
Laser remote sensing at IROE 24 p3907 N84-34747

MORAVCSKIK, M. J.
Amplitude analysis of elastic p-p scattering at 6 GeV/c at all t's [DE83-015875] 02 p0291 N84-11909

MORAVEC, H. P.
The Stanford cart and the CMU Rover [NASA-CR-174502] 06 p0893 N84-15803

MORAWIETZ, P.
Solving crack problems with analytical techniques and the finite elements method [BLL-RISLEY-TR-4940-(9091.9F)] 20 p3200 N84-30325

MORAWITZ, H.
International Conference on Vibrations at Surfaces (3rd) [AD-A131794] 03 p0433 N84-12834

MORCRETTE, J. J.
The NEPHOS program: Preliminary results 10 p1536 N84-20061

MORDFIN, L.
Nondestructive evaluation publications, 1981 [PB83-239574] 03 p0386 N84-12517

MORDUKHOVICH, M. I.
Well-developed convective cloud cover as source of internal waves 18 p2865 N84-28187

MOREAU, G.
Ruled and holographic gratings experiment (A0138-5) 15 p2278 N84-24682

MOREHOUSE, J. H.
Active Program Research Requirements (APRR), volume 1 [DE84-002141] 12 p1921 N84-22513

MOREHOUSE, K. A.
Effect of a rotor wake on heat transfer from a circular cylinder [NASA-TM-83613] 12 p1815 N84-21832

MOREIRA-NORDEMANN, L. M.
Chemical analysis of ions in rain water in natural regions: Correlations with aerosols in the atmosphere [INPE-2856-PRE/395] 23 p3792 N84-34052
Preliminary chemical analysis of rain water in Cubatao: Ambient effects [INPE-2857-PRE/396] 23 p3792 N84-34053

MOREIRA, M. A.
Irrigated rice area estimation using remote sensing techniques: Project's proposal and preliminary results
[E84-10131] 16 p2506 N84-26081
Sampling system for wheat (Triticum aestivum L) area estimation using digital LANDSAT MSS data and aerial photographs
[E84-10139] 16 p2506 N84-26087
Identification and estimation of the area planted with irrigated rice based on the visual interpretation of LANDSAT MSS data
[E84-10164] 17 p2710 N84-27256
A sampling system for estimating the cultivation of wheat (Triticum aestivum L) from LANDSAT data
[E84-10165] 17 p2711 N84-27257
MOREL, A.
Ocean Color Working Group report to ESA Observation Advisory Committee
[ESA-BR-20] 23 p3785 N84-34003
MOREL, R.
Experimental techniques for free edges of turbulent flows 06 p0837 N84-15450
Asymmetric turbulent flows 06 p0837 N84-15451
MORELAND, J.
Squeezable electron tunneling junctions
[AD-A132884] 05 p0754 N84-14946
An electromagnetic squeezer for compressing squeezable electron tunneling junctions
[AD-A136668] 10 p1588 N84-20410
Air as an adjustable insulator for C-V and G-V analysis of semiconductor surfaces
[AD-A141437] 19 p3013 N84-29099
Embedded information transfer technology assessment
[AD-A142649] 21 p3391 N84-31518
MORELL, L. J.
A theory of error-based testing
[AD-A143533] 22 p3640 N84-33081
MOREN, C. A.
An evaluation of the SPADS automated cloud analysis program
[AD-A143987] 23 p3802 N84-34106
MOREN, P.
Microexplosions in boreholes
[FOA-C-20523-E1] 15 p2406 N84-25445
MORETTO, L. G.
The phenomenology of deep-inelastic processes
[DE83-016622] 02 p0292 N84-11913
New statistical and non-statistical effects in deep inelastic heavy-ion collisions
[DE83-015732] 03 p0439 N84-12885
Statistical properties of deep inelastic reactions
[DE84-000722] 04 p0598 N84-13943
MOREY-HOLTON, E. R.
Structural development and gravity
09 p1353 N84-18842
Bone loss in tail-suspended rats in restricted to the unweighted limbs 09 p1353 N84-18843
Simulating certain aspects of hypogravity: Effects on the mandibular incisors of suspended rats (PULEH model) 09 p1353 N84-18844
Sensitivity of bone cell populations to weightlessness and simulated weightlessness 23 p3809 N84-34151
MOREY, J. C.
Use of self assessment in estimating levels of skill retention
[AD-P003345] 18 p2911 N84-28465
MOREY, R. M.
Detection of cavities under concrete pavement
[AD-A131851] 03 p0358 N84-12331
Electromagnetic properties of sea ice
[AD-A140330] 16 p2534 N84-26268
MORF, M.
Statistical data processing, system modeling and reliability
[AD-A135208] 06 p1223 N84-17984
Fast algorithms for improved speech coding and recognition
[AD-A137569] 11 p1643 N84-20740
MORFILL, G. E.
The ISPM energetic panel particle composition experiment 09 p1261 N84-18233
The ISPM dust experiment 09 p1262 N84-18239
Physics and chemistry in the primitive solar nebula
[MPE-PREPRINT-21] 13 p2091 N84-23547
MORFORD, D. R.
Forecasters handbook for the Middle East/Arabian Sea
[AD-A134312] 07 p1039 N84-16739
MORGAN, B. B., JR.
A questionnaire assessment of estimated radiation effects upon military task performance
[AD-P003254] 18 p2905 N84-28421
A review and evaluation of research concerning the performance effects of nuclear radiation
[AD-P003295] 18 p2908 N84-28445
Assessment of learning abilities using rate measures
[AD-P003340] 18 p2911 N84-28463
MORGAN, C. J.
Workpiece positioning vise
[NASA-CASE-GSC-12762-1] 18 p2848 N84-28083
MORGAN, D. E.
Information needs and system specifications for the B-1B executive information system
[AD-A134424] 07 p1085 N84-17054
MORGAN, D. L., JR.
Phenomenology and modeling of heavy gas dispersion
[DE84-008800] 18 p2878 N84-28272
MORGAN, D. M.
1982 US Army Materiel Development and Readiness Command (DARCOM) integrated logistic support (ILS) study finding on contracting for ILS
[AD-P002605] 13 p2058 N84-23351
MORGAN, D. R.
Acousto-Optic Adaptive Processing (AOAP)
[AD-A141445] 19 p3100 N84-29689
PAVE PILLAR: A maturation process for an advanced avionics architecture
[AD-P003568] 21 p3337 N84-31173
MORGAN, E. B., JR.
An exploratory study of the use of an inexpensive cordless telephone as a part of a data communications link
[AD-A134228] 07 p0992 N84-16432
MORGAN, F.
Ultraviolet-laser triggering of a 5-megavolt multistage gas switch
[DE83-013641] 01 p0087 N84-10570
MORGAN, G. A.
A device for measurement of control column forces in aircraft
[AD-A140876] 17 p2607 N84-26700
MORGAN, H. G.
The effect of section thickness on the fatigue performance of simple welded joints
[ND-R-941(S)] 18 p2852 N84-28107
MORGAN, H. L., JR.
Langley high-lift research on a high-aspect-ratio supercritical wing configuration
18 p2784 N84-27665
Pressure distribution data from tests of 2.29-meter (7.5-ft.) span EET high-lift research model in Langley 4- by 7-meter tunnel
[NASA-TM-83111] 19 p2957 N84-28739
MORGAN, J. A.
Ultraviolet response of film candidates for the solar optical telescope photometric filtergraph
[NASA-CR-175254] 22 p3656 N84-33178
MORGAN, J. R.
Mechanism switching and trapping of Triplet-Triplet energy transfer in an orientationally disordered molecular solid
[AD-A130660] 01 p0142 N84-10931
MORGAN, K.
Domain splitting for an explicit hyperbolic solver
[C/R/469/83] 07 p1060 N84-16871
High speed inviscid compressible flow by the finite element method
[NASA-CR-173556] 15 p2332 N84-25002
An adaptive finite element method for high speed compressible flow
[NASA-CR-173443] 17 p2601 N84-26669
MORGAN, N. O.
Gypsy moths and American dog ticks: Space partners
18 p2800 N84-27768
MORGAN, P.
Thermal contraints on high-pressure granulite metamorphism of supracrustal rocks
11 p1678 N84-20948
Geophysical investigations of a geothermal anomaly at Wadi Ghadir, eastern Egypt
[NASA-CR-173527] 14 p2175 N84-24030
MORGAN, P. D.
Command decision makers and their modes of interaction
[AD-P002882] 13 p1978 N84-22843
MORGAN, R. J.
Hydrolytic degradation of Kevlar 49 fibers
[DE84-004158] 13 p1954 N84-22705
Modes of deformation and failure of Kevlar 49 fibers and composites
[DE84-004162] 13 p1954 N84-22706
Cure reactions, network structure and mechanical response of diaminodiphenyl sulfone cured tetraglycidyl 4,4'diaminodiphenyl methane
[DE84-012607] 22 p3561 N84-32548
MORGAN, S.
Low aspect ratio turbine design at Rolls-Royce
19 p3023 N84-29169
MORGAN, T.
Theoretical study of neutron scattering cross sections in semiconductors
[DE84-007540] 15 p2415 N84-25498
Band structure effects in the electronic properties of solids assessible in neutron scattering studies
[DE84-008557] 18 p2941 N84-28654
MORGAN, W. C.
Disparate changes in the physical properties of graphite
[DE83-015986] 03 p0357 N84-12321
Relationships between strength, electrical conductivity, and density for oxidized PGX graphite
[DE83-016184] 04 p0507 N84-13325
MORGEN, P.
HgCdTe surface study program
[AD-A132071] 03 p0349 N84-12266
MORGENEY, B.
Reports from the German Meteorological Service. Number 165: The wind conditions in the Federal Republic of Germany with a view to windpower utilization (especially network planning). Part 3: Interior. Part 4: Hinterland
[ISBN-3-88148-211-3] 19 p3057 N84-29393
MORGENSTERN, G.
Maximum likelihood decoding of AMI-coded digital transmission and additive Gaussian disturbance
[FI-44-TBR-91] 16 p2482 N84-25917
MORGENSTERN, M.
Active databases as a paradigm for enhanced computing environments
[AD-A135808] 09 p1404 N84-19177
MORGENTHALER, F. R.
Microwave and quantum magnetics
22 p3683 N84-33348
MORGENTHALER, S.
Maximum likelihood reconstruction in emission tomography with time-of-flight information: A limited study
[AD-A135061] 08 p1217 N84-17944
Bi- and poly-optimal confidence limits for a location and parameter
[AD-A142980] 21 p3473 N84-32012
Strong confidence intervals: A compromise between the Gaussian and the slash
[AD-A142981] 21 p3475 N84-32021
The use of double sampling in studying robustness
[AD-A142982] 21 p3475 N84-32022
Robust confidence intervals for a scale parameter: A compromise between the Gaussian and the slash
[AD-A143666] 23 p3820 N84-34223
MORGULEFF, N.
Interstellar lines in high resolution IUE spectra of run-away B type stars 24 p3973 N84-35160
Ultraviolet fluxes of blue straggler stars
24 p3974 N84-35165
MORGUN, Y. F.
IRIS pulsing ruby light source
21 p3482 N84-32066
MORI, A.
Development of copper-coated aluminum-shielded wire 11 p1719 N84-21214
MORI, H.
Critical heat flux in forced convection boiling of Freon in a tube at high subcritical pressure: In the case of vapor-liquid mixture at inlet 07 p0984 N84-16373
Strapdown inertial guidance system: Onboard software and its evaluation
[NAL-TR-775] 09 p1254 N84-18184
MORI, K.
Development of a new, completely implantable intraventricular pressure meter and preliminary report of its clinical experience
[NASA-TM-77121] 16 p2535 N84-26276
MORI, M.
Brushless self-excited type three-phase synchronous motor driven by GTO inverter 07 p0983 N84-16366
MORI, S.
Distributed hypothesis formation in distributed sensor networks
[AD-A133849] 05 p0731 N84-14802
Distributed estimation systems
[AD-P002898] 13 p1980 N84-22857
MORI, W.
Prospects of the surfatron laser plasma accelerator
[DE84-005463] 11 p1738 N84-21336
MORI, W. B.
Plasma simulation studies of electron acceleration for beat wave and single frequency-laser heating schemes
[DE84-009988] 20 p3305 N84-30992
MORIARITY, T. M.
Software progress tracking system
[AD-P003488] 21 p3513 N84-32255
MORIARTY, K. J. M.
A highly optimized vectorized code for Monte Carlo simulations of SU(3) lattice gauge theories
10 p1560 N84-20219

MORIARTY, R. M.
Organic azides as jet fuel additives: Synthesis of azides and micro-explosion characteristics of droplets
20 p3144 N84-29963
MORICONI, M.
Automatic construction of verification generators from Hoare logics
15 p2386 N84-25313
MORIKAWA, T.
Dependence of evolution of toxic gases on burning conditions
04 p0514 N84-13377
MORIONDO, A.
Analysis of the metric camera black and white images over Italy
23 p3764 N84-33859
MORISHITA, T.
Technique for removing resin from a molded object
[NASA-TM-77240] 11 p1641 N84-20729
MORISHITA, Y.
Building systems and smoke control
04 p0511 N84-13347
MORITA, A.
Two-way unidirectional condenser microphone
[NHK-LABS-NOTE-297] 20 p3177 N84-30175
MORITA, H.
Magnetic record support
[NASA-TM-77619] 24 p3902 N84-34709
MORITA, K.
Energy dependence of the yields of ion-induced sputtering of monatomic solids
[IPPJ-AM-32] 07 p1076 N84-16992
Dependence of the backscattering coefficients of light ions upon angle of incidence
[IPPJ-AM-34] 15 p2409 N84-25450
MORITA, S.
X-ray spectroscopic study of high-temperature plasmas by curved crystal spectrometer
[IPPJ-639] 01 p0148 N84-10975
Wavelength measurement of X-ray lines from He-like ions
11 p1736 N84-21326
MORITA, W. H.
Integrated technology wing design study
[NASA-CR-3586] 23 p3693 N84-33402
MORITZ, H.
Geodesy and Global Geodynamics
07 p1028 N84-16665
Variational methods in Earth rotation
07 p1030 N84-16673
MORIWAKI, A.
The Karman vortex street detected by the geostationary meteorological satellite Himawari
24 p3921 N84-34817
MORIYAMA, K.
Kinetic model on substrate-metabolic system and growth of microorganisms in activated sludge
07 p0982 N84-16362
MORKOC, H.
High speed FETs fabricated in GaAs/AlGaAs layered structures prepared by molecular beam epitaxy
[AD-A141058] 19 p3013 N84-29096
MORKOVIN, M. V.
Understanding transition to turbulence in shear layers
[AD-A134796] 08 p1159 N84-17548
Conceptual experiments in transition to turbulence through combined visualization and hot-wire techniques
[AD-A142193] 19 p3024 N84-29181
MORLET, J.
Vacuum recycling effect on minor elements in superalloys
23 p3704 N84-33481
MORLEY, L. A.
Electrical-shock prevention. Volume 1: Protection of maintenance personnel
[PB84-102946] 08 p1206 N84-17865
Electrical-shock prevention. Volume 2: Ground-fault interrupting devices
[PB84-102953] 08 p1206 N84-17866
Electrical-shock prevention. Volume 3: Fault protection for motion-drive equipment
[PB84-102961] 08 p1206 N84-17867
Electrical-shock prevention. Volume 4: Overhead-line contact fatalities
[PB84-102979] 08 p1207 N84-17868
MORO, J.
Simulation and analysis of low altitude terrestrial satellites
[INPE-2754-PRE/330] 04 p0488 N84-13209
An adaptive attitude controller for terrestrial artificial satellites
[INPE-3186-PRE/551] 21 p3349 N84-31243
MOROA, V. I.
Proposals for VIRA (Venus International Reference Atmosphere): Dynamics and structure below 100 km
[REPT-831] 11 p1758 N84-21475
MOROSIN, B.
Specific surface measurements of shock-modified powders
[DE83-016230] 02 p0196 N84-11275
Chemistry of shock compression: A bibliography
[DE84-002192] 05 p0651 N84-14279
Energy release and transformation of shock-modified zirconia upon annealing to 1550 deg C
[DE83-017801] 05 p0755 N84-14954
X-ray diffraction line-broadening studies on shock-loaded TiO-2 and Al2O-3
[DE83-016161] 05 p0755 N84-14955
X-ray line broadening studies on aluminum nitride, titanium carbide and titanium diboride modified by high pressure shock loading
[DE84-003257] 10 p1483 N84-19553
MOROSOFF, N.
Organotin piezo- and pyroelectric polymer films
[DE83-009903] 02 p0201 N84-11306
MOROSSI, C.
An automatic fitting procedure for comparing observed and computed spectral distributions
09 p1408 N84-19200
IUE spectra of three A0 V stars rotating close to their break-up velocity: HD 119921, HD 129685, HD 181296
24 p3975 N84-35172
The nitrogen abundance in WC stars
24 p3977 N84-35192
Standard stars: Automatic line identification of IUE high resolution spectra
24 p3981 N84-35225
MOROZ, A. V.
Possibility of extending Kirchhoff's approximation to problems of wave diffraction by transparent nonhomogeneous bodies
18 p2822 N84-27920
MOROZ, E. Y.
Tactical visibility meter
[AD-A141286] 18 p2890 N84-28347
MOROZ, V.
Fourier spectrometry research on Venera-15, -16
12 p1775 N84-21582
MOROZ, V. I.
Proposals for VIRA (Venus International Reference Atmosphere): Chemical composition of atmosphere below 100 km
[PR-830] 08 p1244 N84-18134
Proposals for VIRA (Venus International Reference Atmosphere): Solar and thermal radiation
[PR-829] 08 p1244 N84-18135
MOROZE, M. L.
The ability to process abstract information
[AD-A133794] 05 p0716 N84-14689
MOROZKIN, V. P.
Calculation of hydraulic friction losses in dc motors filled with liquid dielectric
21 p3380 N84-31450
MOROZOV, V. I.
Optoelectronic programmable logic arrays
24 p3941 N84-34948
MOROZOV, Y. I.
Reinforcing materials based on magnesium oxide
12 p1783 N84-21637
MOROZOVA, V. N.
Reinforcing materials based on magnesium oxide
12 p1783 N84-21637
MORRILL, J. P.
Ultralight reactive metal foams produced as structural shapes in space: System design
18 p2801 N84-27777
MORRIS, A.
An RAF viewpoint on aircraft structural integrity
12 p1764 N84-21503
MORRIS, A. S.
Direct digital control of the electric arc furnace
[RR-233] 13 p1974 N84-22811
MORRIS, C. E.
Mach disc formation in cylindrical recovery systems
[DE83-015912] 02 p0220 N84-11442
The velocity of sound behind strong shock waves in 2024 Al
[DE83-015927] 02 p0220 N84-11446
MORRIS, C. E. K., JR.
Design considerations for remotely piloted, high-altitude airplanes powered by microwave energy
[NASA-TM-85730] 06 p0786 N84-15145
MORRIS, C. H.
An empirical Bayes approach to spatial analysis
03 p0393 N84-12563
MORRIS, D. H.
Fracture behavior of thick, laminated graphite/epoxy composites
[NASA-CR-3784] 11 p1627 N84-20648
MORRIS, D. J.
An experimental and theoretical investigation of deposition patterns from an agricultural airplane
[NASA-TP-2348] 23 p3689 N84-33379
MORRIS, D. L.
Experimental and analytical investigation of active loads control for aircraft landing gear
10 p1510 N84-19886
MORRIS, E. C.
Ancient volcano-tectonic structures of the Olympus Mons Region, Mars
13 p2089 N84-23535
Mars-analog studies in Wright and Victoria Valleys, Antarctica
14 p2163 N84-23951
MORRIS, F. A.
Passive Sun seeker/tracker and a thermally activated power module
15 p2348 N84-25089
MORRIS, G. B.
Short term measurements of omnidirectional ambient noise in the southwest Atlantic during January 1981
[AD-A137666] 11 p1692 N84-21033
MORRIS, H. E.
Mapping the acid stimulation in the Beowawe geothermal field using surface electrical potentials
[DE84-004995] 11 p1672 N84-20908
MORRIS, J. W., JR.
Fatigue-crack growth behavior in a nitrogen-strengthened high-manganese steel at cryogenic temperatures
[DE83-016619] 02 p0195 N84-11269
The nature of quasicleavage fracture in tempered 5.5 ni steel after hydrogen charging
[AD-A133460] 06 p0806 N84-15252
Magneto-mechanical effects in 304 stainless steels
[DE84-004343] 10 p1462 N84-19546
Use of phase transformations in the design of alloy steel
[DE84-003050] 10 p1462 N84-19550
Elastic theory of the defect solid solution
[DE84-001976] 10 p1590 N84-20418
Pulsed magnetic field testing of multifilamentary Nb3Sn superconducting wire
[DE84-008250] 15 p2414 N84-25492
Weldability of 2BT-treated 9Ni steel with ferritic filler metal
[DE84-008492] 18 p2815 N84-27869
Influence of processing on the cryogenic mechanical properties of high strength high manganese stainless steel
[DE84-008242] 20 p3154 N84-30027
Critical current density of bronze-processed multifilimentary Nb-3Sn wires with magnesium addition to the matrix
[DE84-014579] 23 p3719 N84-33576
MORRIS, L. K.
Phenomenology and modeling of heavy gas dispersion
[DE84-008800] 18 p2878 N84-28272
MORRIS, M. C.
Standard X-ray diffraction power patterns: Section 20 - data for 71 substances
[PB84-155191] 14 p2244 N84-24475
MORRIS, M. D.
Two-level compromise designs for estimating main effects and detecting interactions
[DE84-002997] 08 p1238 N84-18094
MORRIS, N. M.
Pilot interaction with automated airborne decision making systems
[NASA-CR-173782] 19 p3068 N84-29464
MORRIS, P.
A practical single-mode system, 50 km at 140 mbit/s
11 p1725 N84-21253
MORRIS, P. M.
Fixed-base simulator investigation of Display/SCAS requirements for army helicopter low-speed tasks
[AD-A134123] 05 p0630 N84-14140
MORRIS, P. T.
Shot noise limited detection of OH using the technique of laser induced fluorescence
[NASA-CR-175433] 11 p1662 N84-20844
MORRIS, R. E.
Lewis Research Center spin rig and its use in vibration analysis of rotating systems
[NASA-TP-2304] 15 p2260 N84-24578
MORRIS, R. N.
A survey of the methods of MHD analysis of magnetic islands
[DE84-008858] 21 p3502 N84-32197
MORRIS, S. F.
Reliability growth testing effectiveness
[AD-A141232] 18 p2851 N84-28102
MORRIS, S. J., JR.
Development and analysis of a STOL supersonic cruise fighter concept
[NASA-TM-85777] 13 p1930 N84-22553
MORRIS, T. W.
Operation of the Brookhaven MPS Facility
[DE83-015383] 03 p0441 N84-12896
MORRIS, W. D.
Instrumentation requirements for small scale towed temperature measurements
[AD-A139897] 15 p2336 N84-25026
MORRISETTE, E. L.
Powder fed sheared dispersal particle generator
[NASA-CASE-LAR-12785-1] 07 p1011 N84-16561

MORRISEY, E. J.
Method of making compartmented, filament wound, one-piece aircraft fuel tanks
[AD-D011144] 22 p3534 N84-32376
MORRISON, C. A.
Theoretical analysis of nonreciprocal electromagnetic surface wave devices
[AD-A131630] 02 p0209 N84-11368
Topically classified bibliography on shapes of falling drops, drops in electric fields and related topics
[AD-A131134] 03 p0371 N84-12417
Crystal-field splittings of the Hund ground states of ndN ions in S4 symmetry: Theory and application to the Ga-3+ Gd-3Sc-2Ga-3O-12
[AD-A140623] 17 p2768 N84-27574
Rare-earth ion-host lattice interactions: 15. Analysis of the spectra of Nd3+ in Gd3Sc2Ga3O12
[AD-A142555] 20 p3309 N84-31015
MORRISON, C. E.
Program for mapping Antarctica
14 p2163 N84-23954
MORRISON, D.
Voyager feature-fixed photometry of Iapetus
13 p2074 N84-23440
MORRISON, D. A.
The chemistry of micrometeoroids (A0187-1)
15 p2276 N84-24669
MORRISON, G. H.
Matrix calibration for the quantitative analysis of layered semiconductors by secondary ion mass spectrometry
[AD-A130972] 02 p0298 N84-11954
Point-by-Point matrix effect calibration for the quantitative analysis of layered semiconductors by secondary ion mass spectrometry
[AD-A134099] 05 p0752 N84-14933
Oxide bond energies for the calibration of matrix effects in secondary ion mass spectrometry
[AD-A139633] 15 p2413 N84-25483
MORRISON, H.
Analysis of airborne electromagnetic systems for mapping thickness of sea ice
[AD-A139786] 15 p2373 N84-25235
MORRISON, H. F.
The 2-1/2-dimensional numerical solution for the electromagnetic scattering using a hybrid technique
[DE83-014860] 02 p0210 N84-11374
MORRISON, J. E.
Memory organization-based methods of instruction: A comparison with performance-oriented training
[AD-A137640] 11 p1701 N84-21098
Memory organization-based methods of instruction: Rationale and development
[AD-A137504] 11 p1702 N84-21101
MORRISON, J. F.
Bursts and pressure fluctuations in turbulent boundary layers
[AD-A143611] 23 p3747 N84-33754
MORRISON, J. M.
Management information system for engineering
[DE84-001655] 05 p0760 N84-14984
MORRISON, P. J.
Hamiltonian formulation of reduced magnetohydrodynamics
[DE83-016758] 04 p0609 N84-14021
Nonlinear dynamics of magnetic islands with curvature and pressure
[DE84-010968] 20 p3285 N84-30859
Generalized Poisson brackets and nonlinear Liapunov stability: Application to reduced MHD
[DE84-009973] 20 p3302 N84-30972
MORRISON, R. J.
Definition, analysis and development of an optical data distribution network for integrated avionics and control systems. Part 2: Component development and system integration
[NASA-CR-172429] 22 p3657 N84-33181
MORRISSEY, L. A.
An evaluation of thematic mapper simulator data for the geobotanical discrimination of rock types in Southwest Oregon
[NASA-CR-166569] 12 p1828 N84-21915
MORRONE, A.
Combination of earthquake direction effects
[DE84-001848] 07 p1034 N84-16709
MORROW, C. T.
Shock spectral analysis by personal computer, using the IFT algorithm 10 p1509 N84-19675
MORROW, G. E.
Lessons learned--advanced attack helicopter
[AD-A135521] 08 p1104 N84-17177
MORROW, G. W.
The 1963 Goddard Space Flight Center Battery Workshop
[NASA-CP-2331] 23 p3735 N84-33668
Comparison of standard and heart-pacer type 3rd electrodes in design variable cells
23 p3738 N84-33694
MORROW, J. F.
BETA: A program for calculating and archiving backscattering profiles taken with the NOAA National Oceanic and Atmospheric Administration) coherent lidar system
[PB84-150168] 14 p2177 N84-24040
MORROW, P. E.
Exposure chamber for studies of pollutant gases and aerosols in human subjects: Design considerations
[DE84-001135] 06 p0890 N84-15785
MORSE, A. C.
A system for embedding data displays in graphical contexts
[AD-A143630] 23 p3815 N84-34191
MORSE, B. J.
Spatial and temporal distribution of Northern Hemisphere snow cover
[PB84-118348] 09 p1350 N84-18819
MORSE, H. A.
Rotary wing aerodynamically generated noise
19 p3097 N84-29668
MORSE, R. L.
Applications of hybrid numerical-simulation methods to magnetic-confinement systems
[DE84-001840] 05 p0750 N84-14922
MORSINK, G.
Information processing for use in the treatment of severely physically handicapped persons
20 p3264 N84-30711
MORT, D.
Performance of passive solar and energy conserving houses in California
[SERI/STR-254-2017] 23 p3790 N84-34039
Documentation of data processing procedures and extension of Class B data analysis
[SERI/STR-254-2085] 23 p3815 N84-34189
MORTENSEN, J.
Parameter measurement methods for interfacing hydraulic systems with microelectronic instruments and controllers
[AD-A144208] 24 p3902 N84-34710
MORTENSEN, J. K.
Age and evolution of the Yukon-Tanana Terrane, southeastern Yukon Territory 13 p2013 N84-23060
MORTIMER, V. D., JR.
The C-squared system: A general-purpose neuron network model
[AD-A136191] 09 p1304 N84-18524
MORTMAN, I.
Materials properties data base computerization
12 p1889 N84-22303
MORTON, K. W.
Equations of fluid flow, finite difference approximations and basic mathematical properties of each
06 p0834 N84-15430
MORTON, P. L.
Free-electron-laser research
[DE83-016957] 03 p0382 N84-12489
MORTON, R. A.
Continuity and internal properties of Gulf Coast sandstones and their implications for geopressured fluid production
[DE84-004396] 10 p1526 N84-19996
MORTON, T. E.
Myopic heuristics for the weighted tardiness problem on identical parallel machines
[AD-A134934] 08 p1216 N84-17934
MORUCCI, J. P.
Experimental investigation of the effect of electrets on bone healing 23 p3809 N84-34150
MORY, M.
Waves on vortex cores and their relation to vortex breakdown 03 p0326 N84-12128
MORYAKOV, V. F.
Comparative estimate of cyclic strength of welded joints in titanium alloys 24 p3876 N84-34561
MOSADDAD, B.
Computational models for cyclic plasticity, rate dependence and creep in finite element analysis
[PB83-245829] 04 p0505 N84-13308
MOSE, K.
Cost efficient on board power for airline operation
03 p0335 N84-12180
MOSELEY, M. J.
Preparation and cleanliness verifications of a space simulation chamber for contamination sensitive test specimens 24 p3865 N84-34495
MOSELEY, S. H.
Thermal detectors as X-ray spectrometers
[NASA-TM-86092] 14 p2148 N84-23866
MOSELEY, V. A.
The liquid bipropellant stage concept: Filling the OTV gap 20 p3140 N84-29936
MOSER, J.
Signal detection for same-shape families of non-homogeneous Poisson processes
[AD-A135032] 08 p1217 N84-17942
MOSER, M.
Research in knowledge representation for natural language understanding
[AD-A134102] 05 p0726 N84-14765
MOSER, R.
Thermal diffusion in glass melts
[BMFT-FB-W-83-033] 12 p1802 N84-21751
MOSER, R. L.
Power subsystem automation study
[NASA-CR-170974] 08 p1180 N84-17686
MOSES, C. A.
Fuel property effects on Navy aircraft fuel systems
14 p2109 N84-23647
U.S. Army alternative gas-turbine fuels research: MERADCOM 15 p2290 N84-24739
MOSES, D. O.
Technology assessment of productive conservation in urban transportation
[DE83-012179] 01 p0163 N84-11070
MOSES, G. A.
Gas filled dynamics for laser driven fusion reactors
[DE84-005181] 12 p1910 N84-22444
MOSES, G. E.
An analysis of the implementation plan for the conversion from the T-37 to the T-46 aircraft in undergraduate pilot training
[AD-A141199] 18 p2793 N84-27726
MOSES, J.
Implementation of MACLISP on a large address space computer
[DE84-005042] 11 p1710 N84-21145
Research in algebraic manipulation
[AD-A137742] 11 p1713 N84-21171
Research in algebraic manipulation
[AD-A137776] 11 p1714 N84-21174
MOSES, P. L.
Operational modules for space station construction
[NASA-TM-85772] 12 p1779 N84-21608
MOSES, R. W.
Sustainment dynamo reexamined: Nonlocal electrical conductivity of plasma in a stochastic magnetic field
[DE84-007485] 15 p2412 N84-25478
MOSHER, A.
Physics at very high energies
[DE83-012854] 03 p0438 N84-12878
MOSHER, C. H.
Hydrogen fluoride formation and metal corrosion in freon-contaminated propellants
20 p3137 N84-29921
MOSHER, D.
European Scientific Notes, volume 37, number 7
[AD-A132676] 05 p0759 N84-14979
Status of light ion inertial fusion research at NRL (Naval Research Laboratory)
[AD-A135951] 09 p1392 N84-19087
Europe approaches chaos with electrical circuits
[AD-A142085] 20 p3177 N84-30179
Physics in Europe: A data file of selected research
[AD-A143428] 22 p3674 N84-33289
MOSHER, F.
Applications of the AVE-Sesame data sets to mesoscale studies 24 p3931 N84-34886
MOSHER, F. R.
Development of the Centralized Storm Information System (CSIS) for use in severe weather prediction
24 p3932 N84-34890
MOSHER, J. A.
Galilean satellite multispectral data base production
13 p2087 N84-23521
MOSHER, M.
Acoustic measurements of a full-scale rotor with four tip shapes. Volume 1: Text, appendices A and B
[NASA-TM-85878-VOL-1] 14 p2221 N84-24327
Acoustic measurements of a full-scale rotor with four tip shapes. Volume 2: Appendices C, D, E and F
[NASA-TM-85878-VOL-2] 15 p2403 N84-25426
The influence of a wind tunnel on helicopter rotational noise: Formulation of analysis
[NASA-TM-85982] 20 p3290 N84-30887
MOSHER, M. C.
A finite element method for the gas dynamics equations in 2 dimensions and in conservation form
[AD-A139774] 15 p2333 N84-25009
MOSHER, R. L.
Load-transfer criteria for numerical analysis of axially loaded piles in sand. Part 1: Load-transfer criteria
[AD-A139236] 14 p2134 N84-23788
MOSHIASHVILI, I. Y.
Genetic control and phenotypic correction of cellular immune response to H-antigen of Salmonella typhimurium 17 p2740 N84-27400

MOSHINSKY, E. W.
Water resources data for New Jersey, water year 1982. Volume 1: Atlantic Slope Basins, Hudson River to Cape May
[PB84-119726] 09 p1338 N84-18736
Water resources data for New Jersey, water year 1982. Volume 2: Delaware River Basin and tributaries to Delaware Bay
[PB84-119734] 09 p1338 N84-18737
MOSHKIN, A. A.
Electrofilters from polymer materials
24 p3867 N84-34509
MOSHKIN, B. E.
Proposals for VIRA (Venus International Reference Atmosphere): Solar and thermal radiation
[PR-829] 08 p1244 N84-18135
MOSHKIN, M. P.
Effects of natural light conditions on biorhythms in polar dwellers 18 p2897 N84-28376
MOSHNINA, Y. N.
Method of analysis of combination oscillations of arbitrary nonlinear system for spectrum conversion
17 p2634 N84-26849
MOSIER, S. A.
Fuel property effects on USN gas turbine combustors
14 p2107 N84-23636
Fuel effects on gas turbine combustion systems
15 p2289 N84-24737
MOSIN, E. F.
Investigation of the state of materials in plasma deposition of refractory coatings
[BLL-M-35686-(5828.4)] 22 p3551 N84-32485
MOSKALENKO, N. I.
Radiative heat exchange in atmosphere disturbed by volcanic eruption 17 p2698 N84-27184
MOSKALEV, V. M.
Investigation of plane phased array of piezoelectric transducers with one-lobe directivity diagram
17 p2639 N84-26883
MOSKALEVA, L. N.
Aspects of damping of sonic vibrations due to impact loading in plate steels
[BLL-M-35295-(5828.4)] 06 p0908 N84-15895
MOSKO, J. D.
Interactive voice technology: Variations in the vocal utterances of speakers performing a stress-inducing task
[AD-A135932] 09 p1302 N84-18514
MOSKOWITZ, P.
Atomic resonance and scattering
22 p3681 N84-33339
MOSLEY, W. C., JR.
Grain-boundary cavitation and weld-underbead cracking in DOP-26 iridium alloy
[DE83-015406] 03 p0389 N84-12539
MOSOVSKY, J. A.
Laser dye toxicity, hazards and recommended controls
[DE83-011896] 02 p0227 N84-11485
MOSS, G. L.
Dynamic compaction of ceramic materials
[AD-A137257] 11 p1638 N84-20708
MOSS, M.
Use of numerical heat-transfer techniques to analyze thermal-comparator conductivity measurements
[DE84-000945] 04 p0535 N84-13515
MOSS, P.
Application of methods of numerical and software engineering analysis to physical and engineering data collected in a variety of laboratory and field measurement programs
[AD-A137863] 11 p1682 N84-20975
MOSS, R. W.
Sputter-deposited metallic and ceramic coatings for heat engines
[DE84-011401] 20 p3154 N84-30030
MOSS, S. C.
Microstructural studies of hydrogen and deuterium in BCC refractory metals
[DE84-011506] 21 p3367 N84-31357
MOSS, W. F.
Spinning mode acoustic radiation from the flight inlet
[NASA-CR-172273] 06 p0908 N84-15896
MOSSE, A. L.
Thermal characteristics of plasma reactors with cylindrical and conical multijet mixing chambers
13 p1970 N84-22788
MOSSER, V.
Contribution to the low temperature study of MOS transistors (10K-77K)
[ENST-83E017] 19 p3113 N84-29781
MOSTAFA, A. M.
Effect of liquid droplets on turbulence structure in a round gaseous jet 11 p1609 N84-20533
MOSTAGHIMI, J.
Plasma-particle interaction effects in induction plasma modelling under dense loading conditions
[DE84-013388] 22 p3660 N84-33203
MOSTINI, G.
Integrated Software Engineering Facilities (ISEF)
05 p0721 N84-14730
MOSTROM, M. A.
Pulsed-power diode generation of high-power microwaves
[DE84-001344] 04 p0523 N84-13440
Filamentation instability associated with a relativistic beam and a finite-temperature, collisional plasma
[DE84-002303] 05 p0750 N84-14928
MOSULA, R. J.
Turbulent swirling combustion
11 p1609 N84-20535
MOSZKOWSKI, B. C.
Reasoning about digital circuits
[AD-A136634] 09 p1365 N84-18914
MOTALLEBI, N.
Doppler-radar observation of the evolution of downdrafts in convective clouds
[NASA-CR-173874] 21 p3450 N84-31896
MOTAMEDI, M. E.
Monolithic SAW oscillators on silicon
[AD-A143664] 23 p3741 N84-33716
MOTCH, C.
Preliminary results of coordinated optical UV and X-ray observations of magnetic white dwarfs in binaries
24 p3980 N84-35216
MOTE, J. D.
Investigation of shock activated sintering and shock wave consolidation of selected powder materials
[DE84-013074] 21 p3371 N84-31391
MOTLEY, W. R., III
Performance of alkaline battery cells used in emergency locator transmitters
[NASA-TP-2277] 11 p1646 N84-20759
MOTOJIMA, O.
Spectroscopy in heliotron E 11 p1735 N84-21320
MOTOYAMA, H.
Estimation of melting rate of snow by simple formulae using only air temperature 15 p2353 N84-25121
Water balance at a small watershed during the snowmelt season, 1 15 p2354 N84-25123
Water balance at a small watershed during the snowmelt season. 2: Runoff analysis 15 p2354 N84-25124
Radiation measurement of snowy season in 1982-1983 at Sapporo 23 p3782 N84-33845
MOTSCHNIG, H.
EDDA: A very high level data flow specification language 05 p0722 N84-14735
MOTTA, A. G.
Safety in the handling of rocket motors
[INPE-3033-NTE/214] 17 p2616 N84-26745
Temperature oscillations and ozone correlations in the lower stratosphere of Natal (6 deg S)
[INPE-3116-PRE/512] 21 p3443 N84-31844
Barreira do Inferno: Five years of ozone research
[INPE-2974-PRE/437] 23 p3796 N84-34073
A national program for data collection platforms: Information techniques for users
[INPE-3137-NTE/219] 24 p3858 N84-34456
MOTTA, F. A. A.
Meteorological database
[INPE-2790-PRE/353] 09 p1399 N84-19135
MOTTE, F.
Trichite growth during oxidation of titanium and TA6V4 alloy by water vapor at high temperatures
[NASA-TM-76974] 06 p0805 N84-15248
MOTTMANN, J.
Quenchings and outbursts of extragalactic radio sources: Nine years of 3.3-mm measurements and comparisons with centimeter-wave variations
[AD-A138233] 13 p2092 N84-23550
MOTTRAM, K. G.
Use of plain copper conductors in lieu of tinned-copper for internal cables 11 p1719 N84-21213
MOTYKA, P.
Fault-tolerant system considerations for a redundant strapdown inertial measurement unit
[NASA-CR-172426] 23 p3692 N84-33396
MOU, H.
Low power 2-of-3-valued CMOS self-checking circuits
[AD-P002334] 14 p2190 N84-24125
MOUCHET, M.
Preliminary results of coordinated optical UV and X-ray observations of magnetic white dwarfs in binaries
24 p3980 N84-35216
Ultraviolet orbital variability of the intermediate polars
24 p3980 N84-35217
MOUFTAH, H. T.
Low power 2-of-3-valued CMOS self-checking circuits
[AD-P002334] 14 p2190 N84-24125
MOUGEY, E. H.
Positive and negative reinforcement effects on behavior in a three-person microsociety
[NASA-CR-173164] 09 p1363 N84-18902
Behavioral and biological effects of changes in group size and membership
[NASA-CR-173801] 19 p3067 N84-29457
MOUGIN, L. J.
Heat recovery subsystem and overall system integration of fuel cell on-site integrated energy systems
[NASA-CR-168309] 11 p1673 N84-20915
MOUGINIS-MARK, P. J.
SeaMARC 2 side-scan images of submarine volcanoes: Potential analogues for Venus 11 p1754 N84-21452
Venus analogues on the Earth's ocean floor(?): Volcanic terrains seen by SeaMARC 2 side scan sonar
11 p1755 N84-21456
New models for landform evolution on Io
13 p2074 N84-23443
Volcanism in Elysium Planitia, Mars
13 p2080 N84-23481
Hypsometric studies of Mars.
13 p2089 N84-23530
Elysium Region, Mars: Characterization of tectonic features 13 p2089 N84-23534
MOUL, D.
Penn State Get Away Special
18 p2799 N84-27759
MOUL, T. M.
Wind-tunnel investigation of an advanced general aviation canard configuration
[NASA-TM-85760] 12 p1789 N84-21539
MOULIN, P.
Computer aided ultrasonic testing
[CETIM-15-H-404] 21 p3416 N84-31661
MOULSLEY, T. J.
A system to measure LOS atmospheric transmittance at 19 GHz 15 p2324 N84-24951
MOUNT, G. H.
An extreme ultraviolet spectrometer experiment for the Shuttle Get Away Special Program
18 p2801 N84-27778
MOURA, A. D.
Assessments by satellite of meteorological data for water resources
[INPE-2949-PRE/432] 07 p1023 N84-16635
The ocean and the dynamics of the tropical atmosphere: Its possible predictability
[INPE-2998-PRE/450] 12 p1847 N84-22041
Influence of extratropical heteorological phenomenon on the northeast Brazilian climate: A study using finite elements
[INPE-2912-PRE/425] 13 p2016 N84-23072
DCP systems and characteristics
[INPE-2948-PRE/431] 22 p3614 N84-32899
Large scale tropical heat sources and global atmospheric energy propagation associated with droughts in Northeast Brazil
[INPE-3227-PRE/578] 24 p3918 N84-34806
Transient convection over the Amazon/Bolivia region and the dynamics of drought over northeast Brazil
[INPE-3226-PRE/577] 24 p3922 N84-34823
A synoptic study of the influence of extra-tropical latitude systems on the climatic variability in northeast Brazil
[INPE-3225-PRE/576] 24 p3922 N84-34824
A study of the influence of extra-tropical latitude systems on the climatic variability in Northeast Brazil
[INPE-3264-PRE/595] 24 p3922 N84-34825
MOUSSA, P.
Family of almost periodic Schroedinger operators
[DE83-017308] 11 p1717 N84-21199
MOUSSOUROS, M.
Further results on the predictions of collapse pressure of a ring stiffened cylindrical shell subject to hydrostatic pressure
[AD-A130877] 01 p0095 N84-10619
MOUSTAFA, A. R.
Analysis of Laramide and younger deformation of a segment of the Big Bend region, Texas
23 p3794 N84-34060
MOUTON, P. L.
The heterogeneous nucleation of ice I
06 p0817 N84-15325
MOVCHAN, A. V.
Subharmonic vibrations of rotor mounted in rolling bearings 17 p2649 N84-26943
MOVSESYAN, R. M.
Simulator-probe for diagnostic testing of short-wave radio channels 22 p3567 N84-32595
MOY, L.
Low cost, sprayed CuInSe2 solar cell research
[DE84-005339] 10 p1530 N84-20023
Low cost, sprayed CuInSe2 solar cell research
[DE84-010480] 20 p3235 N84-30533
MOYE, R. L.
Hoop/column antenna RF verification model. Volume 2: Analysis and correlation
[NASA-CR-172413] 21 p3382 N84-31462

Hoop/column antenna: RF verification model. Volume 1: Test results
[NASA-CR-172412] 21 p3382 N84-31463
MOYER, R.
US military aircraft cost handbook
[AD-A136035] 09 p1249 N84-18158
MOYER, S. A.
Bibliography of research reports and publications issued by the Toxic Hazards Division, 1957-1982
[AD-A133637] 05 p0713 N84-14672
MOYNIHAN, C. T.
Extended abstracts of the Proceedings of the 2nd International Symposium on Halide Glasses
[AD-A144269] 24 p3888 N84-34624
MOYNIHAN, P. I.
Second-law efficiency of solar-thermal cavity receivers
[NASA-CR-173732] 18 p2671 N84-28223
MOYNIHAN, T.
Free-piston Stirling engine experimental program: Part 1. Baseline test summary
[DE84-003659] 07 p1012 N84-16567
Free-piston Stirling engine experimental program: Part 2. An evaluation of loss mechanisms
[DE84-003658] 09 p1325 N84-18661
MOYNIHAN, T. M.
Automatic combustor controller development and liquid-fuel combustor design program
[AD-A130368] 01 p0052 N84-10335
Stirling-engine heat-actuated heat pump
[DE83-017137] 04 p0537 N84-13529
MOZER, M. C.
Inductive information retrieval using parallel distributed computation
[AD-A142712] 20 p3314 N84-31050
MOZGOVOY, A.
Further commentary on U. S. ASAT program
19 p2978 N84-26879
MOZO, B. T.
Comparison of real-ear attenuation characteristics of the standard SPH-4 earcup and a prototype crushable earcup
[AD-A136042] 12 p1868 N84-22171
Development of a microprocessor based audiometer for threshold shift studies
[AD-A142124] 19 p3065 N84-29448
MOZOLEVSKAYA, O. A.
Electron microscope study of processes of polygonization and recrystallization in alpha-phase of two-phase (alpha + beta)-titanium alloys with plate structure 23 p3708 N84-33507
MRAZEK, F. C.
Molten carbonate fuel cell cathode development
[DE84-012101] 21 p3395 N84-31544
MRIG, L.
Advanced photovoltaic system simulator to demonstrate the performance of advanced photovoltaic cells and devices
[DE83-009405] 08 p1180 N84-17688
MROSS, W. D.
Alkali doping heterogeneous catalysts
[BMFT-FB-T-83-174] 07 p0973 N84-16303
MRSTIK, A. V.
RF systems in space. Volume 2: Space-based radar analyses
[AD-A133735] 05 p0668 N84-14394
MUASHER, M. J.
Detection and monitoring of the 1983 Nowruz oil spill using AVHRR data 23 p3780 N84-33972
MUCCI, J. H.
Automated storage and retrieval systems--a consolidation of guidance for project management and implementation
[AD-A135571] 09 p1404 N84-19175
MUCKLOW, P. A.
Engine reliability through bearing condition monitoring
[PNR-90168] 13 p1933 N84-22570
MUDGE, L. K.
Methanol production by catalytic gasification of wood
[DE83-013744] 01 p0053 N84-10341
MUDRICK, D.
An adaptive CBT (Computer Based Training) courseware authoring system to meet the needs of military authors
[AD-P003460] 21 p3510 N84-32237
MUEDSAM, U.
Assessment of data handling configurations for onboard operating system definition (phase 1)
[ESA-CR(P)-1787] 09 p1273 N84-18314
MUEHLHOFF, L.
Electron spectroscopy study of SiC
[AD-A134352] 07 p1080 N84-17023
MUEKSCH, M. C.
A splash and sheet erosion model from LANDSAT data 23 p3771 N84-33903
MUELLENMEISTER, P.
Verification of the radiation budget in numerical models 10 p1535 N84-20059
MUELLER, A. W.
Study of stator-vane fluctuating pressures in a turbofan engine for static and flight tests
[NASA-TP-2217] 12 p1898 N84-22363
MUELLER, B.
Intelligent flight data recorder: A contribution to on-condition maintenance and optimization of operation
17 p2585 N84-26568
MUELLER, C. K.
Evaluation of meteorological airborne Doppler radar
17 p2715 N84-27287
MUELLER, D.
Estimates of one-dimensional oscillatory integrals
13 p2032 N84-23179
MUELLER, E. A.
The effect of aircraft with noise certificates according to class ICAO Annex 16 on the determination of noise protection domains following the law on protection against aircraft noise
[MPIS-117/1983] 23 p3821 N84-34234
MUELLER, G.
Thin-layer solar cells made of amorphous silicon
[MBB-UA-664-82-OE] 05 p0698 N84-14584
Physical and chemical investigations on real catalyst surfaces
[BMFT-FB-T-83-273] 13 p1958 N84-22729
MUELLER, H.
Vibration-induced flux variation in the space between two concentric tubes
[BLL-CE-TRANS-7949-(9022.09)]
06 p0857 N84-15583
Materials investigations 14 p2125 N84-23737
Macroscopic and microscopic appearance of separation fractures 14 p2125 N84-23740
Scientific analysis of existing data on aerosol dispersion and transport in a mountain valley
[AD-A142013] 20 p3238 N84-30555
MUELLER, I. I.
Reference coordinate systems for Earth dynamics: A preview 07 p1029 N84-16668
Comments on conventional terrestrial and quasi-inertial reference systems 07 p1029 N84-16669
Effects of adopting new precession, nutation and equinox corrections on the terrestrial reference frame
07 p1029 N84-16670
Reference frame requirements and the MERIT campaign
[REPT-329] 07 p1029 N84-16671
MUELLER, J.
High speed photography and pulsed laser holography for diagnostic investigations of mixture formation and vibration in reciprocating engines
[DFVLR-MITT-83-18] 12 p1819 N84-21857
All solid state CCD image sensor
[BMFT-FB-T-84-046] 19 p3113 N84-29778
MUELLER, J. L.
Matrix partitioning and EOF/principal component analysis of Antarctic Sea ice brightness temperatures
[NASA-TM-83916] 17 p2721 N84-27319
MUELLER, K.
Study of the contributions of chemical and van der Waal forces to interaction between fluorine and Ar, Kr and Xe, using molecular beam scattering investigations of integral scattering cross sections
[MPIS-1/1984] 23 p3823 N84-34248
MUELLER, M.
Design and test of a cryogenic phase separator for zero-g environment 10 p1442 N84-19418
MUELLER, N.
Electrochemical-treeing (ECT) structures in high-voltage cable insulation
[BMFT-FB-T-83-087] 02 p0215 N84-11413
MUELLER, P. A.
Development of the Earth's early crust: Implications from the Beartooth Mountains 11 p1679 N84-20959
MUELLER, R.
Data from tests of a R4 airfoil in the Langley 0.3-meter transonic cryogenic tunnel
[NASA-TM-85739] 23 p3690 N84-33385
MUELLER, R. O.
Annotated bibliography of battery evaluations
[DE84-000653] 04 p0527 N84-13466
Thermal energy storage in molten-salt systems for solar central receivers: The federal role in research and development
[DE84-007433] 15 p2364 N84-25185
MUELLER, V. C.
Failure analysis of nickel-hydrogen cell subjected to simulated low Earth orbit cycling
23 p3740 N84-33703
MUELLER, W.
Further development of magnetotelluric methods for the exploration of the pre-Zechstein by improvement of the data processing codes, data acquisition and interpretation techniques
[BMFT-FB-T-83-190] 07 p1023 N84-16638
Results of permanent Doppler measurements at the satellite observation station Wettzell
08 p1174 N84-17646
Doppler observation campaign in the Ivory Coast: Reconnaissance, measuring, interpretation and experience 19 p3040 N84-29289
MUENCH, H. S.
Experiments in objective aviation weather forecasting using upper-level steering
[AD-A143393] 22 p3625 N84-32971
MUENCH, W.
Enhanced safety by means of clear information on hazards and operational disturbances by a plain language communication device
[BMFT-FB-HA-84-010] 18 p2830 N84-27971
MUENNICHOW, I.
An advanced host-target environment for the military computer family
[AD-P003428] 20 p3271 N84-30760
MUENZ, V.
New integrated circuit casing
18 p2918 N84-28504
MUENZ, W. D.
Development of a prototype cathode sputtering plant
[BMFT-FB-T-83-251] 10 p1472 N84-19617
MUFSON, S. L.
Very recent IUE observations of 2 BL Lacertae orbits
15 p2424 N84-25561
MUFTI, I. H.
Equations of motion for rigid multibody systems
[AD-A137234] 10 p1569 N84-20281
MUGGE, M.
Calculation of molecular final states and their effect on a precision neutrino mass experiment
[DE84-011071] 20 p3295 N84-30921
MUGGERRIDGE, J.
A pioneer deep ocean mining venture
[PB84-199645] 21 p3433 N84-31780
MUHFELDER, B.
Observation of bistability in a Josephson device
14 p2235 N84-24409
Theory of multistability in Josephson junction devices
14 p2235 N84-24410
MUHLHAUSER, K. H.
Associations between coronal mass ejections and interplanetary shocks 03 p0474 N84-13121
MUHR, R.
Optimization of production conditions and material characteristics of tubular stabilizer bars
[BMFT-FB-T-83-177] 07 p0986 N84-16385
MUILWIJK, D.
Correlative phase modulation for fixed satellite services, volume 1 (phase 1)
[PTI-SB-2363-21-3505-VOL-1] 08 p1147 N84-17465
Correlative phase modulation for fixed satellite service-s. Volume 2: Supplementary report
[PTI-SB-2363-21-3794-VOL-2] 08 p1147 N84-17466
MUIR, B.
Design of an orbital heating simulator using IR techniques 24 p3864 N84-34487
MUIR, C. A.
Motion illness: A bibliography
[AD-A139342] 15 p2379 N84-25276
MUIR, D. G.
Laser light scattering from density fluctuations in the Culham focus 10 p1584 N84-20383
MUIRHEAD, K.
Satellite remote sensing, environmental monitoring and the offshore oil and gas industries
03 p0398 N84-12603
MUISJSERT, J.
Observations of surface water temperature and salinity in the Eastern part of the East Scheldt from 1921 until present
[KNMI-TR-40(FM)] 10 p1526 N84-19999
MUKAI, E.
Fluorescent discharge lamp
[NASA-TM-77456] 10 p1485 N84-19706
MUKAIDONO, M.
Regular ternary logic functions. Ternary logic functions suitable for treating ambiguity
[AD-P002366] 14 p2194 N84-24157
MUKHA, I. M.
A melt for the electrolytic application of titanium plating
[BLL-OA-TRANS-3111-(6L96.3)]
06 p0804 N84-15241
MUKHAMEDIYEVA, L. N.
Evaluation of human blood morphological composition during exercise in sealed chamber with different concentrations of ammonia 07 p1045 N84-16779
Metabolic disturbances in man in an environment with low ammonia level and their correction by graded physical exercise 07 p1045 N84-16780

MUKHAMEDOV, E. G.
A method of assessing cardiac function with bicycle ergometry in expert medical certification of pilots
02 p0262 N84-11716
Assessment of the functional state of the heart muscle in aircrew members by means by bicycle ergometry
08 p1199 N84-17815

MUKHAYEV, V. V.
Texture effect on anisotropy of electric and magnetic properties of titanium alpha-alloys
23 p3708 N84-33506

MUKHERJEE, S.
Finite element analysis of metal forming processes with thermomechanical coupling
[DE84-004879] 10 p1462 N84-19548

MUKHERJEE, S. B.
Ring-type support concept for twisted coils (finite element simulation)
[IPP-2/271] 20 p3200 N84-30327

MUKHERJEE, T. K.
German/Indian cooperation program for solar powered water pumps, phase 1
[BMFT-FB-T-83-171] 07 p1026 N84-16651

MUKHIN, L. M.
Belt of life in the galaxy
[PR-761] 08 p1243 N84-18127
Proposals for VIRA (Venus International Reference Atmosphere): Chemical composition of atmosphere below 100 km
[PR-830] 08 p1244 N84-18134

MUKHINA, L. L.
Structural features of polycrystalline ZnSe and solid solutions ZnSa sub I-x S sub x 12 p1788 N84-21659

MUKHOPADHYAY, V.
The use of singular value gradients and optimization techniques to design robust controllers for multiloop systems
[NASA-TM-85720] 02 p0277 N84-11815
Active controls: A look at analytical methods and associated tools
[NASA-TM-86269] 21 p3419 N84-31684

MUKUNASHI, H.
Development of short-distance optical transmission cord 11 p1727 N84-21268

MUKUNDA, N.
Realization of first order optical systems using thin lenses
[DE84-002848] 05 p0747 N84-14909
Fourier optics for the Maxwell field: Formalism and applications
[DE84-002845] 06 p0826 N84-15383
Relativistic particle dynamics: Lagrangian proof of the no-interaction theorem
[DE84-009147] 19 p3102 N84-29707
Spinorial relativistic rotator: The transformation from quasi-Newtonian to Minokowski coordinates
[DE84-009091] 20 p3282 N84-30839

MULAC, W. A.
Use of pulse radiolysis to measure high temperature kinetics
[DE84-011702] 21 p3361 N84-31324

MULARZ, E. J.
Detailed fuel spray analysis techniques
15 p2291 N84-24747

MULBRANDON, M.
Estimating spectral indices from transforms of discrete representations of density functions
[AD-A140164] 16 p2557 N84-26404

MULCAHY, T. M.
Leakage flow-induced vibrations of reactor components 08 p1168 N84-17611
Fluid forces on a rigid cylinder in turbulent crossflow
[DE84-006364] 15 p2333 N84-25012

MULERA, T.
Large area non-crystalline semiconductor detectors
06 p0912 N84-15925

MULHEARN, P. J.
Comparisons of Naval Air Station, NOWRA oceanographic analyses with independently obtained ship and satellite data
[AD-A136462] 10 p1526 N84-19994

MULHOLLAND, G. P.
The transient response of circular foil heat-flux gages
[DE83-017785] 04 p0538 N84-13541

MULKEY, T. J.
Suppression of asymmetric acid efflux and gravitropism in maize roots treated with auxin transport inhibitors of sodium orthovanadate
[NASA-CR-173634] 17 p2740 N84-27395

MULLEN, C. R.
Contamination measurements during IUS thermal vacuum tests in a large space chamber
24 p3865 N84-34496

MULLEN, E. G.
SCATHA (Spacecraft charging at high altitudes) environmental atlas
[AD-A131456] 02 p0185 N84-11201

MULLEN, M. W.
Defense Technical Information Center referral data bank directory
[AD-A138400] 20 p3315 N84-31051

MULLEN, R. L.
Experimental study of bubble cavities attached to a rotating shaft in a reservoir
[NASA-TM-83586] 08 p1157 N84-17533

MULLENNEX, M. L.
Microcomputer-based graphical linear programming package
[AD-A141094] 19 p3075 N84-29508

MULLER, C.
A sample performance of the grille spectrometer aboard Spacelab
[AERONOMICA-ACTA-A-281-1984]
16 p2494 N84-26003
Trace constituants measurements deduced from spectrometric observations onboard Spacelab
[AERONOMICA-ACTA-A-288-1984]
20 p3239 N84-30565

MULLER, J. C.
Text processing in the writing of contracts
[SNIAS-841-422-102] 21 p3519 N84-32297

MULLER, J. R.
Interactive raster data structure study
[AD-A130195] 01 p0100 N84-10649

MULLER, K. E.
Neurobehavioral effects of carbon monoxide (CO) exposure in humans protocol 1
[AD-A133891] 06 p0888 N84-15774

MULLER, M. W.
Clustering and ordering in 3-5 alloys
[AD-A131785] 03 p0452 N84-12974

MULLER, P.
The Role of Eddies in the General Ocean Circulation: Proceedings of Aha Huliko's Hawaiian Winter Workshop
[AD-A137212] 11 p1689 N84-21014
Evidence for the direct atmospheric forcing of mid-ocean eddies
[AD-P002656] 11 p1690 N84-21021

MULLER, R. H.
Anodic films
[DE83-016603] 01 p0075 N84-10492
Fast, self-nulling spectroscopic ellipsometer: Instrumentation and application, revision
[DE83-015531] 04 p0605 N84-13994
Impedance and ellipsometer measurements of lithium electrodes in propylene carbonate solutions
[DE84-003922] 07 p0998 N84-16475
Effect of Rhodamine-B on the electrodeposition of lead on copper
[DE84-005535] 11 p1634 N84-20683
Automatic, self-nulling, spectral scanning ellipsometer: Software for the LSI-11 data acquisition system
[DE83-015007] 11 p1709 N84-21139
Automatic, self-nulling, spectral scanning ellipsometer: Software for the LSI-11 data acquisition system
[LBL-15525] 16 p2543 N84-26320

MULLER, S. H.
The evaluation of rain gages, illustrated by the Thies rain gage and the electrical rain gage of the Royal Netherlands Meteorological Institute (KNMI)
[KNMI-WR-83-16] 14 p2180 N84-24057

MULLEY, W. G.
Avionics/crew station integration
06 p0789 N84-15042

MULLIGAN, K. J.
Polymerization of 3-methyl-2,5-Dibromothiophene utilizing n-butyl lithium and Copper(II) chloride
[AD-A136955] 10 p1468 N84-19585

MULLIN, J. P.
NASA-OAST photovoltaic energy conversion program
19 p3044 N84-29308
The NASA photovoltaic technology program
[NASA-TM-83685] 22 p3542 N84-32426

MULLISEN, R. S.
Heat transfer, pressure drop, and fluid flow in interrupted wall passages 05 p0682 N84-14487

MULTER, J.
Aids to navigation radar 1 principal findings: Performance in limited visibility of short range aids with passive reflectors
[AD-A137596] 11 p1604 N84-20507

MUMMA, M. J.
Thermal bifurcation in the upper solar photosphere inferred from heterodyne spectroscopy of OH rotational lines
[NASA-TM-86128] 17 p2781 N84-27654

MUMUNI, I. A.
A finite element model for the analysis and optimal design of beams and plates with variable flexural rigidity
21 p3417 N84-31668

MUNCH, R. A.
Real-time processing system for the NRL (Naval Research Laboratory) remote sensing experiment: Phelps Bank, July 1982
[AD-A132151] 04 p0553 N84-13645
Data validation and summary for the NRL remote sensing experiment: Phelps Bank, July, 1982. Part 2: Meteorology
[AD-A132105] 04 p0553 N84-13646

MUNCK, R. G.
Preliminary program manager's guide to Ada
[AD-A140347] 16 p2565 N84-26457

MUNDER, J.
POPSAT: A candidate satellite system for solid Earth applications and sciences. Preliminary feasibility study. Volume 1: Summary
[ESA-CR(P)-1882-VOL-1] 17 p2614 N84-26735
POPSAT: A candidate satellite system for solid Earth applications and sciences. Preliminary feasibility study. Volume 2: Development program
[ESA-CR(P)-1882-VOL-2] 17 p2614 N84-26736

MUNDIE, J. R.
The C-squared system: A general-purpose neuron network model
[AD-A136191] 09 p1304 N84-18524

MUNDIE, L.
Infrared monitoring of gyrotron windows
[DE84-004442] 10 p1499 N84-19799

MUNDING, G.
Experimental exhaust plume investigation with MBB 10 N bipropellant thruster
[MBB-UR-558-84] 17 p2617 N84-26747

MUNEKATA, T.
Compact Claude cycle refrigerator for laboratory use
06 p0819 N84-15338

MUNGAL, M. G.
Experiments on mixing and combustion with low heat release in a turbulent shear flow
04 p0531 N84-13489

MUNGER, B.
Atmospheric emergencies: Existing capabilities and future needs
[PB83-250779] 05 p0701 N84-14602

MUNIR, Z. A.
Fabrication of SiC, Si3N4 and AlN combustion synthesis
[DE84-001766] 05 p0660 N84-14339
The role of sintering in the oxidation-reduction of palladium powders
[DE84-011202] 20 p3159 N84-30059
Investigation of the role of sintering in gas-solid interactions
[DE84-010862] 20 p3163 N84-30089
Defect production efficiencies in thermal neutron irradiated copper and molybdenum
[DE84-010993] 20 p3309 N84-31018

MUNIZ, B.
Body-freedom flutter of a 1/2-scale forward-swept-wing model, an experimental and analytical study
[NASA-CR-172324] 12 p1771 N84-21553

MUNJAL, A. K.
Characterization of filament wound Kevlar and glass composites for rocket motor applications
20 p3142 N84-29949

MUNJE, S. R.
Analysis of a solar heat pipe heating and absorption cooling system 01 p0076 N84-10496

MUNKSTRUP, I.
On the assessment of errors due to antenna pattern imperfections: Executive summary
[TUD-R-253] 02 p0210 N84-11376

MUNOZ-CANDELARIO, R.
Definition of the concentration gradient above flammable liquids
[DE84-008296] 20 p3149 N84-29996

MUNRO, R.
Performance testing of the high altitude observatory PDS microdensitometer 18 p2839 N84-28022

MUNRO, R. G.
Low-frequency Raman scattering from vitreous and molten B2O3
[AD-A132698] 05 p0649 N84-14269

MUNSER, R.
Fundamentals and physical limits of holographic memories with and without associative recall
[BMFT-FB-DV-83-002] 02 p0225 N84-11475

MUNT, A.
Hourly values of electricity and heat consumption and electricity supply conditions. Fundamentals of Block Heating Power Station (BHPS) construction
23 p3792 N84-34048

MUNTEANU, M. J.
Regional correlation between TOMS total ozone from NIMBUS-7 satellite and geopotential height from the GLAS analysis 12 p1851 N84-22056
Improved HIRS2/MSU soundings using tropopause information 12 p1851 N84-22060
The prediction of tropopause height from clusters of brightness temperatures and its application in the stratified regression temperature retrievals using microwave and infrared satellite measurements 12 p1852 N84-22064
Applications of cluster analysis to satellite soundings 12 p1852 N84-22065

MUNTZ, C. A.
NSW (National Software Works) executive enhancements II
[AD-A129022] 01 p0120 N84-10781

MUNTZ, E. P.
A technique for the nondestructive detection of voids and composition anomalies in metal matrix composite wires using X or gamma rays
[AD-A135481] 08 p1132 N84-17359

MUNTZ, J. E.
Common data input-retrieval system
[DE84-010972] 20 p3315 N84-31053

MUNZ, D.
Microscopic appearance of vibratory fractures 14 p2126 N84-23742
Fracture mechanics in the analysis of damage 14 p2126 N84-23749

MUDI, T. V.
Optical analog repeater development for a one GHz bandwidth recirculating delay line
[AD-A133658] 05 p0675 N84-14437

MUR, G.
Computation of the temperature distribution due to eddy-currents in the wall of a power transformer
[PB83-217273] 06 p0831 N84-15410

MURA, J. C.
Digital transmission and visualization of meteorological satellite images
[INPE-2809-PRE/367] 02 p0239 N84-11567

MURA, T.
Volume integrals associated with the inhomogeneous Helmholtz equation. Part 1: Ellipsoidal region
[NASA-CR-3749] 05 p0689 N84-14525

MURABAYASHI, E. T.
Stream-water storage in the ocean using an impermeable membrane
[PB83-248369] 04 p0517 N84-13394

MURAI, T.
The deficiency of entire functions with Fejer gaps 14 p2210 N84-24267

MURAKAMI, A.
A study of air breathing rockets. 3: Supersonic mode combustors
[NAL-TR-756] 04 p0489 N84-13213

MURAKAMI, H.
Rotating and propagating LIB stabilized by self-induced magnetic field
[IPPJ-640] 03 p0444 N84-12916
Zero gravity experiment of superfluid helium
[ISAS-604] 07 p0960 N84-16225
Steady-state solutions of propagating LIB with rotating motion
[IPPJ-672] 19 p3106 N84-29734

MURAKAMI, K.
Measurements of rain attenuation at 12 GHz with the BSE
[NHK-LN-292] 15 p2370 N84-25218

MURAKAMI, M.
Zero gravity experiment of superfluid helium
[ISAS-604] 07 p0960 N84-16225
Thermofluidynamics of heat pipes 10 p1443 N84-19423
Experimental study on porous-plug phase separator for superfluid He2
[ISAS-612] 20 p3308 N84-31008

MURALIDHARAN, S.
On a class of orbit closures with unique minimal sets 07 p1060 N84-16869

MURALIDHARAN, U.
Tensile and compressive constitutive response of 316 stainless steel at elevated temperatures
[NASA-TM-83506] 06 p0805 N84-15249

MURALIKRISHNA, P.
A rocket-borne Langmuir probe for in-situ measurement of ionospheric plasma
[INPE-3206-PRE/564] 21 p3349 N84-31244
Variability in the height distribution of electrojet currents of Jicamarca
[INPE-3205-PRE/563] 21 p3442 N84-31840
A fast method for computer image enhancement
[INPE-3170-PRE/540] 21 p3465 N84-31965

MURAMOTO, K. K.
A theoretical analysis of the aerodynamic and structural forces associated with a ribbon parachute canopy in steady descent 16 p2443 N84-25671

MURANAKA, N.
A preprocessing procedure method in ternary clause selection
[AD-P002327] 14 p2189 N84-24118

MURANOVA, G. A.
Effect of ion treatment of substrates on initial stage of buildup of metal films 21 p3378 N84-31439

MURATA, T.
Development of a new, completely implantable intraventricular pressure meter and preliminary report of its clinical experience
[NASA-TM-77121] 16 p2535 N84-26276

MURATA, Y.
Sound radiation by vortex-body interaction 07 p0982 N84-16360

MURATORIO, G.
The ultraviolet spectrum of stars having optical Fe 2 emission lines 24 p3977 N84-35188

MURAVITSKAYA, G. N.
Peridotites of the Khizen Fault (Southeastern Pacific Ocean) 18 p2657 N84-26145

MURAVITSKIY, M. A.
Controller for the electro-optical shutter of a dual pulse laser 13 p1968 N84-22776
IRIS pulsing ruby light source 21 p3482 N84-32066

MURAVYEV, A. A.
New type of dye laser with light-induced distributed feedback 21 p3482 N84-32067

MURAVYEV, I. I.
Influence of conditions and medium of annealing on short-term strength and fatigue resistance of welded joints in OT4 titanium alloy 24 p3876 N84-34559

MURAYAMA, T.
Characteristics of heat and flame resistant optical fiber cables 11 p1726 N84-21260

MURAYAMA, Y.
Study on small scale model tests for reinforced concrete structures- small scale model tests by using 3mm diameter deformed re-bars
[PB83-224832] 01 p0059 N84-10390
Response of cracks in structural materials to short pulse loads
[AD-A131565] 02 p0231 N84-11519

MURCRAY, D. G.
Stratospheric NO and NO2 profiles at sunset from analysis of high-resolution balloon-borne infrared solar absorption spectra obtained at 33 deg N and calculations with a time-dependent photochemical model
[NASA-TM-86285] 20 p3240 N84-30566

MURCRAY, F. J.
Stratospheric NO and NO2 profiles at sunset from analysis of high-resolution balloon-borne infrared solar absorption spectra obtained at 33 deg N and calculations with a time-dependent photochemical model
[NASA-TM-86285] 20 p3240 N84-30566

MURDOCK, T. L.
The far infrared sky survey experiment
[AD-A131966] 03 p0461 N84-13037
The revised AFGL (Air Force Geophysics Laboratory) Infrared Sky Survey Catalog
[AD-A134007] 05 p0763 N84-15005

MURFET, C.
Airline experience with avionic software development for aircraft integrated data systems 17 p2587 N84-26581

MURFREE, J. A.
Laser induced polymerization reactions in solid propellant binders 21 p3373 N84-31403
Laser induced nitrations of some aliphatic hydrocarbon compounds 21 p3373 N84-31404

MURIEL, M. A.
Self-beating instabilities in bistable devices 14 p2236 N84-24415
Empirical and analytical study of instabilities in hybrid optical bistable systems 14 p2236 N84-24416

MURILLO, O. R.
Development of capsular adhesive systems and evaluation of their stability
[AD-A140063] 15 p2302 N84-24816

MURMAN, E. M.
Computational methods for complex flowfields
[AD-A133970] 05 p0680 N84-14467
Aerodynamic design using numerical optimization
[NASA-TM-85550] 17 p2599 N84-26661

MURMUZHEV, B. A.
Phase inverter based on dielectric stripline waveguide with mobile metal plate 17 p2636 N84-26879

MURPHREE, E. L., JR.
Models of purposive human organization: A comparative study
[AD-A138871] 14 p2247 N84-24491

MURPHY, C. H.
Liquid payload roll moment induced by a spinning and coning projectile
[AD-A133681] 05 p0680 N84-14472
A relationship between liquid roll moment and liquid side moment
[AD-A140658] 17 p2668 N84-27011

MURPHY, C. J.
Characterization of block copolymers based on poly(3,3 -bis(ethoxymethyl)oxetane) and other novel polyethers
[AD-A142606] 20 p3162 N84-30081

MURPHY, C. T.
Measurement of the energy resolution and related properties of an SCG1-C scintillation glass shower counter array for 1 to 25 GeV positrons
[DE84-007246] 14 p2148 N84-23871
Measurement of electromagnetic shower position and size with a saturated avalanche tube hodoscope and a fine grained scintillation hodoscope
[DE84-007247] 15 p2337 N84-25032

MURPHY, D. L.
Movement of satellite-tracked buoys in the Beaufort sea (1979-1981)
[AD-A133159] 07 p1041 N84-16748
Land cover and terrain mapping for the development of digital data bases for wildlife habitat assessment in the Yukon Flats National Wildlife Refuge, Alaska 14 p2166 N84-23971

MURPHY, D. P.
REB (Relativistic Electron Beam)/channel tracking experiments in low pressure ammonia
[AD-A140209] 16 p2555 N84-26394
A study of long aerosol initiated laser induced air breakdown plasmas
[AD-A143967] 23 p3828 N84-34279

MURPHY, D. V.
Rotational CARS application to simultaneous and multiple-point temperature and concentration determination in a turbulent flow
[NASA-CR-175334] 07 p1001 N84-16489
Rotational cars application to simultaneous and multiple-point temperature and concentration determination in a turbulent flow
[NASA-CR-3783] 09 p1385 N84-19044

MURPHY, E. A.
Terrain variables improve modeling of Richardson numbers less than unity in the lower atmosphere
[AD-A137926] 11 p1671 N84-20906

MURPHY, E. B.
Durable copper polyimide adhesive bonds
[AD-A130221] 01 p0049 N84-10319

MURPHY, G.
Electron beam experiments aboard the Space Shuttle 05 p0638 N84-14195

MURPHY, G. B.
Interaction of the space shuttle orbiter with the ionospheric plasma 08 p1117 N84-17265
Effects of chemical releases by the STS-3 Orbiter on the ionosphere
[NASA-CR-171032] 15 p2367 N84-25204
STS-3/OSS-1 Plasma Diagnostics Package (PDP) measurements of Orbiter-generated V x B potentials and electrostatic noise
[AD-P002105] 16 p2522 N84-26191

MURPHY, H. D.
Economics of a conceptual 75 MW hot dry rock geothermal electric power station
[DE83-015926] 20 p3236 N84-30539

MURPHY, J.
CCRS proposal for evaluating LANDSAT-4 MSS and TM data
[E84-10096] 10 p1522 N84-19966
Revised radiometric calibration technique for LANDSAT-4 Thematic Mapper data by the Canada Centre for Remote Sensing 10 p1522 N84-19967
Revised radiometric calibration technique for LANDSAT-4 Thematic Mapper data 10 p1522 N84-19968
Radiometric calibration and geocoded precision processing of LANDSAT-4 MSS products 10 p1523 N84-19975
CCRS option for TM data distribution 10 p1524 N84-19982
Revised radiometric calibration technique for LANDSAT-4 Thematic Mapper data by the Canada Centre for Remote Sensing 20 p3208 N84-30378
Radiometric calibration and geocoded precision processing of LANDSAT-4 Multispectral Scanner products by the Canada Centre for Remote Sensing 20 p3212 N84-30404

MURPHY, J. D.
Turbulence modeling
[NASA-TM-85889] 13 p1989 N84-22913

MURPHY, J. H.
Modular stellarator reactor: A Fusion power plant
[DE84-002268] 07 p1077 N84-17001

MURPHY, J. M.
Evaluating LANDSAT-4 MSS and TM data
[E84-10157] 17 p2709 N84-27249
MURPHY, K. A.
Estimation of coefficients and boundary parameters in hyperbolic systems
[NASA-CR-172389] 19 p3082 N84-29562
MURPHY, K. N.
Dynamically stable legged locomotion
[AD-A136644] 09 p1363 N84-18905
MURPHY, K. P.
Development of a residential gas-absorption heat pump
[DE83-017218] 04 p0536 N84-13526
MURPHY, L. M.
Direct steam generation in line-focus solar collectors
[DE83-006030] 06 p0872 N84-15678
Technical and cost benefits of lightweight, stretched-membrane heliostats
[DE83-009408] 16 p2513 N84-26124
Technical and cost potential for lightweight, stretched-membrane heliostat technology
[DE84-004433] 20 p3236 N84-30543
MURPHY, M.
Insulin and cortisol improve heat tolerance in isolated perfused rat liver
[AD-A133382] 07 p1042 N84-16758
MURPHY, M. E.
In-flight investigation of longitudinal flying qualities criteria
[AD-A143614] 23 p3695 N84-33419
MURPHY, M. M.
Development and assessment of the Monark cycle ergometer for anaerobic muscular exercise
[AD-A133173] 06 p0847 N84-15523
Maximal power outputs during the Wingate anaerobic test
[AD-A141374] 19 p3065 N84-29444
MURPHY, P. C.
An algorithm for maximum likelihood estimation using an efficient method for approximating sensitivities
[NASA-TP-2311] 16 p2451 N84-25717
MURPHY, R. A.
Particle sizing in a fuel-rich ramjet combustor
[AD-A135632] 09 p1257 N84-18204
MURPHY, R. E.
Fundamental remote sensing science research program. Part 1: Scene radiation and atmospheric effects characterization project
[NASA-TM-86078] 12 p1830 N84-21929
MURPHY, R. J.
Neutrons and gamma rays from solar flares
09 p1406 N84-19187
MURPHY, R. L.
Cost risk and contract type: A normative model
[AD-P002781] 13 p2055 N84-23328
MURPHY, W. C.
Theoretical aspects of laser-induced periodic surface structure formation
[AD-A134875] 08 p1164 N84-17581
Laser-induced electron-phonon processes on metal surfaces
[AD-A136435] 09 p1321 N84-18632
Laser-induced surface migration via surface plasmons
[AD-A136436] 09 p1321 N84-18633
Theory of laser-induced surface chemistry with applications to microelectronics and heterogeneous catalysis
[AD-A141832] 19 p2989 N84-28938
MURRAY, C.
Fluid replacement during hypothermia
[AD-A143807] 23 p3810 N84-34159
MURRAY, C. A.
Maximum-likelihood estimation of kinematic parameters 09 p1412 N84-19232
MURRAY, C. W., JR.
Matrix partitioning and EOF/principal component analysis of Antarctic Sea ice brightness temperatures
[NASA-TM-83916] 17 p2721 N84-27319
MURRAY, G. B.
Friction welding 09 p1292 N84-18436
MURRAY, G. J.
A solution technique for complex matrix games
[ARL-SYS-NOTE-83] 04 p0592 N84-13910
MURRAY, J. G.
Engineering aspects of disruption current decay
[DE84-002995] 07 p1076 N84-16998
MURRAY, J. N.
Development of electrolysis-cell separator for 1250C operation. Advanced alkaline electrolysis cell development
[DE84-000439] 04 p0530 N84-13484
MURRAY, K. A.
Overview of Roof Pond Systems
16 p2516 N84-26150
MURRAY, R. C.
Efficient large-scale finite-element computations in a CRAY environment
[DE83-014946] 06 p0896 N84-15818
Introduction to GEMINI
[DE84-005058] 10 p1564 N84-20248
MURRAY, R. D.
The application of a superconducting quantum interference device second-order gradiometer to measure visual evoked responses
[AD-A138407] 12 p1865 N84-22156
MURRAY, S. A.
Evaluation of army remotely piloted vehicle mission payload operator performance in simulated artillery missions
[AD-A137602] 11 p1703 N84-21103
MURRAY, W.
Documentation for FDCALC and FDCORE
[DE83-013886] 01 p0124 N84-10808
User's guide for SOL/NPSOL: A FORTRAN package for nonlinear programming
[DE83-016903] 03 p0421 N84-12751
User's guide for SOL/QPSOL: A FORTRAN package for quadratic programming
[DE83-016990] 03 p0421 N84-12752
On the representation of a basis for the null space
[AD-A136419] 09 p1375 N84-18979
MURREL, S. L.
The impact of communicating through computers
17 p2750 N84-27457
MURRELL, M. T.
Microprobe analyses of rare-earth-element fractionation in meteoritic minerals
[DE83-017326] 04 p0621 N84-14097
MURRI, D. G.
Wind-tunnel free-flight investigation of a model of a forward-swept-wing fighter configuration
[NASA-TP-2230] 08 p1105 N84-17184
MURRI, W. J.
Computer simulation of two-dimensional impact tests on propellant
[DE84-002460] 07 p0981 N84-16356
MURRIN, M. R.
An instrumental conditioning method for establishing chronic arousal
[AD-A140808] 17 p2740 N84-27396
MURSAYEV, A. K.
Improvement in analog error autocorrection circuit
17 p2634 N84-26855
Autonomous microprocessor controllers for scientific research automation systems 24 p3941 N84-34946
MURTAGH, B. A.
MINOS 5.0 user's guide
[DE84-005640] 11 p1709 N84-21140
MURTAGH, M.
Status of P714 - LAPDOG
[DE83-013613] 01 p0164 N84-11079
MURTAGH, M. J.
Neutrino-oscillation experiments at Brookhaven National Laboratory
[DE83-018275] 04 p0528 N84-13476
MURTAGH, S. J.
Neutrino-oscillation experiments at Brookhaven National Laboratory
[DE83-018275] 04 p0528 N84-13476
MURTHY, H. N.
Thermal network correction by simplex optimization
10 p1442 N84-19422
MURTHY, K. N. S.
Annulus wall boundary layer development in a compressor stage, including the effects of tip clearance
07 p0957 N84-16207
MURTHY, P. L. N.
Dynamic stress analysis of smooth and notched fiber composite flexural specimens
[NASA-TM-83694] 16 p2460 N84-25770
ICAN: Integrated composites analyzer
[NASA-TM-83700] 17 p2618 N84-26755
MURTHY, S. N. B.
PURDU-WINCOF: A computer code for establishing the performance of a fan-compressor unit with water ingestion
[NASA-CR-168005] 20 p3130 N84-29875
MURTHY, S. S.
Dynamically stable legged locomotion
[AD-A136644] 09 p1363 N84-18905
A triangular anistropic thin shell element based on discrete Kirchoff theory 17 p2678 N84-27060
MURTY, H. S.
Analytical and numerical study of the flow in a shock tube with an area change at the diaphragm section
[UTIAS-TN-255] 21 p3399 N84-31563
MURTY, R.
Atmospheric effects on coherent lidar systems
24 p3924 N84-34839
MURVEIT, H.
A thousand-word speech-recognition system using special-purpose MOS-LSI 09 p1399 N84-19140
MUSACCHIA, X. J.
Extensions of suspension systems to measure effects of hypokinesia/hypodynamia and antiorthostasis in rats
09 p1355 N84-18855
MUSHOTZKY, R. F.
Soft X-ray spectral observations of quasars and high X-ray luminosity Seyfert galaxies
[NASA-TM-85118] 04 p0619 N84-14082
X-ray spectra and time variability of active galactic nuclei
[NASA-TM-86071] 12 p1922 N84-22519
An X-ray survey of variable radio bright quasars
[NASA-TM-86094] 14 p2250 N84-24512
LHEA contributions to the Future of Ultraviolet Astronomy Based on Six Years of IUE Research
[NASA-TM-86098] 15 p2423 N84-25559
Ultraviolet and X-ray observations of active galactic nuclei: Constraints on models of the broad emission line region 15 p2423 N84-25560
Cosmic rays and the emission line regions of active galactic nuclei
[NASA-TM-86110] 16 p2582 N84-26561
X-ray spectra of clusters of galaxies
[NASA-TM-86115] 24 p3982 N84-35234
Temperature and elemental abundances in the Abell cluster A 576 derived from X-ray observations
[NASA-TM-85103] 24 p3987 N84-35238
MUSHRUSH, G. W.
Liquid and solid phase compositions in a partially frozen JP-5 fuel low in n-alkanes
[AD-A143390] 22 p3561 N84-32553
MUSICUS, B. R.
Digital signal processing 22 p3684 N84-33357
MUSIFULIN, A.
Polymers as substitutes for metal and lumber
24 p3867 N84-34510
MUSKET, R. G.
Reduction of tritium permeation through iron using aluminum-ion implantation
[DE84-000184] 04 p0500 N84-13279
MUSSIO, P.
Interactive Automatic System (Iasp): An expert system to help photointerpretation 23 p3779 N84-33961
MUSSMAN, D.
Development and flight test of an active flutter suppression system for the F-4F with stores. Part 2: Ground tests and subcritical flight tests
[AD-A131402] 02 p0178 N84-11163
Development and flight test of an active flutter suppression system for the F-4F with stores. Part 3. Flight demonstration of the active flutter suppression system
[AD-A131972] 03 p0337 N84-12191
MUSSON, T. A.
R and M (Reliability and Maintainability) program review elements document (IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A142073] 20 p3199 N84-30322
MUSTEL, Y. R.
Frequency conversion in photomultiplier during interaction of photoelectron beam and electric field in heterodyne 22 p3568 N84-32599
MUSZYNSKA, A.
On the modal identification of multiple degree of freedom systems from experimental data
10 p1511 N84-19887
MUTA, S.
Micropower CMOS implementation of three-valued logic functions
[AD-P002333] 14 p2190 N84-24124
MUTALOV, N.
Uzbek scientific intelligentsia under developed Socialism 01 p0056 N84-10365
MUTCHLER, D. C.
Search with limited resources
[AD-A136122] 09 p1384 N84-19039
MUTOH, T.
Spectroscopy in heliotron E 11 p1735 N84-21320
MUTOH, Y.
Study of burnout frame rockets. 1: Study of small rocket with burnout frame for weather modifications
[NAL-TR-764] 09 p1274 N84-18319
MUTONE, G. A.
Recent advances in variable speed electrical generator systems for large wind turbines
[DE84-001833] 06 p0830 N84-15404
MUTSCHLER, E.
Contributions towards analytical chromatography
[BLL-M-29866-(5828.4)] 24 p3880 N84-34579
MUTTART, L. E.
Hot isostatic pressing of ceramic powder compacts
[AD-A131514] 01 p0050 N84-10324

MUUSS, M. J.
The multiple device queueing system
[AD-A140429] 16 p2547 N84-26344
MUZIO, J. C.
The simplification of multiple-valued symmetric functions
[AD-P002340] 14 p2191 N84-24131
MYASNIKOV, V. I.
Experimental psychological methods used in expert evaluation of mental work capacity of flight personnel in the presence of functional disturbances and central nervous system diseases 02 p0261 N84-11712
Mental status and work capacity of Salyut-6 station crew members 07 p1044 N84-16773
MYASNYIKOV, V.
Computers, microprocessors, economy of USSR 24 p3944 N84-34970
MYDOSH, J. A.
Muon spin relaxation in ferromagnetic PdMn
[DE83-012659] 03 p0453 N84-12979
MYER, J.
Multiwavelength bidirectional coupler-decouplers
[AD-A132908] 05 p0747 N84-14907
MYERS, C. R., JR.
User friendly authoring languages: An alternative approach
[AD-P003461] 21 p3510 N84-32238
MYERS, D. C.
Validation of the military entrance physical strength capacity test
[AD-A142169] 19 p3066 N84-29451
Analysis of computer interactive tests for assigning helicopter pilots to different missions
[AD-A142434] 20 p3262 N84-30696
MYERS, D. M.
A compilation of mineral occurrences and the relationship of occurrences to structural elements of the Kentucky and Tennessee region
[NASA-CR-175240] 18 p2878 N84-28275
MYERS, D. R.
Ion-implanted strained-layer superlattice device
[DE84-000101] 05 p0754 N84-14949
MYERS, E. T.
Pulmonary dosimetry of nitrogen dioxide in animals and man
[PB83-243394] 03 p0414 N84-12711
MYERS, G. D.
Flame propagation in heterogeneous mixtures of fuel drops and air
[NASA-CR-174644] 14 p2131 N84-23775
MYERS, J. C.
Movement of satellite-tracked buoys in the Beaufort sea (1979-1981)
[AD-A133159] 07 p1041 N84-16748
MYERS, L. E.
The 27th AFOSR (Air Force Office of Scientific Research) chemical and atmospheric sciences program review (27th)
[AD-A133718] 05 p0703 N84-14612
MYERS, L. P.
Comparison of flight results with digital simulation for a digital electronic engine control in an F-15 airplane
[NASA-TM-84903] 05 p0630 N84-14144
Preliminary flight test results of the F100 EMD engine in an F-15 airplane
[NASA-TM-85902] 15 p2262 N84-24588
Propulsion control experience used in the Highly Integrated Digital Electronic Control (HIDEC) program
[NASA-TM-85914] 23 p3695 N84-33415
MYERS, L. T.
Proton-induced single event upsets in the SBP9989 microprocessor
[AD-A142448] 20 p3266 N84-30724
MYERS, M. G.
Analysis of incentives for productivity-enhancing investment
[AD-P002770] 13 p2053 N84-23317
MYERS, S. M.
Ion-beam analysis and ion implantation in the study of diffusion
[DE84-000354] 06 p0924 N84-16006
MYERS, T. T.
Space Shuttle flying qualities and flight control system assessment study, phase 2
[NASA-CR-170406] 05 p0633 N84-14158
Space shuttle flying qualities criteria assessment, phase 3
[NASA-CR-170407] 11 p1614 N84-20565
MYERS, W. N.
Resilient seal ring assembly with spring means applying force to wedge member
[NASA-CASE-MFS-25678-1] 02 p0228 N84-11497
MYHRA, S.
Surface modification of some titanate minerals subjected to hydrothermal chemical attack
[AERE-R-10799] 01 p0039 N84-10249
MYHRE, K.
Attention, performance, and sustained activation in military air traffic controllers 11 p1698 N84-21076
MYLER, T. R.
Elliptical orbit performance computer program
[NASA-CR-165832] 18 p2920 N84-28515
NEMAR plotting computer program
[NASA-CR-165831] 18 p2920 N84-28516
Moments of inclination error distribution computer program
[NASA-CR-165824] 19 p3073 N84-29501
MYLIN, D. C.
Navier-Stokes computational study of the influence of shell geometry on the Magnus effect at supersonic speeds
[AD-A130630] 01 p0079 N84-10516
Computational modeling of aerodynamic heating for XM797 nose cap configurations
[AD-A133684] 05 p0627 N84-14126
Boundary-layer trip effectiveness and computations of aerodynamic heating for XM797 nose-tip configurations
[AD-A126036] 07 p0947 N84-16148
MYMRINA, N. V.
About the profile of cosmic ray intensity increase prior to Forbush-decrease 24 p3994 N84-35279
MYNETT, A. E.
West breakwater-Sines (Portugal): Wave climatology 08 p1194 N84-17787
MYRA, J. R.
Resonant-3-wave mode coupling in inhomogeneous plasmas: Symmetry breaking by omega meson-*
[DE84-001633] 04 p0606 N84-13999
Locally omnigenous tandem-mirror design
[DE84-001605] 04 p0607 N84-14007
Introduction to tandem mirror physics
[DE84-006644] 12 p1911 N84-22451
A rf-induced stability of mirrors with inverted pressure profiles
[DE84-007018] 13 p2045 N84-23273
RF-induced stability and transport in axisymmetric tandem mirrors
[DE84-010842] 20 p3306 N84-30999
Azimuthal electric fields and tandem ambipolarity
[DE84-010843] 21 p3501 N84-32189
MYRTLE, K.
Regeneration efficiency, shuttle heat loss and thermal conductivity in epoxy-composite annualr gap regenerators from 4K to 80K 06 p0818 N84-15335
MYSAK, L. A.
Variations in surface current off the coasts of Canada as inferred from infrared satellite imagery 17 p2719 N84-27305
MYSHLYAEV, L. P.
Assessment of trends of input actions of inertial objects
[BLL-M-35689-(5828.4)] 22 p3644 N84-33104
MYSKIN, O. K.
Protective plasma envelope
[DE84-013316] 21 p3502 N84-32194
Probing a plasma with high-energy beams of atoms using threshold detectors
[DE84-013360] 21 p3502 N84-32195

N

NAATS, I. E.
Determining optical characteristics of stratospheric aerosol by multifrequency laser sounding method 11 p1670 N84-20900
NABER, P. S.
Evaluation of point precipitation probability forecasts using radar estimates of rainfall areal coverage
[PB84-121060] 09 p1350 N84-18821
NACHBAUER, W.
Development of technology, circuit design and simulation procedures for Very Large Scale Integration (VLSI) systems, volume 1
[BMFT-FB-T-83-170-VOL-1] 10 p1487 N84-19724
Development of technology, circuit design and simulation procedures for Very Large Scale Integration (VLSI) systems, volume 2
[BMFT-FB-T-83-170-VOL-2] 10 p1487 N84-19725
NACHSHON, A.
Conjugate gradient coupled with multigrid for an indefinite problem
[NASA-CR-172379] 19 p3082 N84-29558
NACINI, E.
A directory of European, Middle Eastern, and North African coastal ground control points for mapping satellite images
[AD-A142019] 20 p3228 N84-30512
NACK, M. L.
Cost and performance analysis of visual and sensor simulation systems using Defense Mapping Agency data bases
[AD-A135955] 09 p1259 N84-18220
NACK, W. V.
Optimization for vibration isolation
[AD-A137895] 11 p1668 N84-20886
NACKUNSTZ, I.
A system for automatic digitization of cartographic line drawings 20 p3227 N84-30506
NACOZY, P. E.
Dynamics analysis of electrodynamic satellite tethers. Equations of motion and numerical solution algorithms for the tether
[NASA-CR-171777] 13 p1937 N84-22598
The Motion of Planets and Natural and Artificial Satellites, volume 2 19 p3117 N84-29806
A numerical averaging procedure for the Galilean Satellites system 19 p3118 N84-29816
Inclined geosynchronous satellites 19 p3119 N84-29820
NADDEF, D.
The travelling salesman problem in graphs with 3-edge cutsets
[AD-A133504] 06 p0902 N84-15852
NADEZHDIN, G. N.
Low-cycle fatigue of VT1-0 alloy and changes in its fine structure at temperatures of 293-4.2 deg K 23 p3708 N84-33509
NADEZHINA, O. N.
Fracture mechanism of carbon and boron reinforced plastics with shear between layers 24 p3872 N84-34539
NADIROVA, K. N.
Influence of level of adaptation to light upon estimation of brightness 18 p2898 N84-28385
NAEAETAENEN, M.
Regular n-gons and Fuchsian groups 04 p0576 N84-13798
NAEGELI, D. W.
Research on fire-resistant diesel fuel flammability mitigation mechanisms
[AD-A130743] 01 p0052 N84-10337
Engine wear with methanol fuel in a nitrogen-free environment
[AD-A143530] 22 p3604 N84-32833
NAGAMATSU, H. T.
Investigation to optimize the passive shock wave-boundary layer control for supercritical airfoil drag reduction
[NASA-CR-173276] 07 p0946 N84-16135
Investigation of the effects of pressure gradient, temperature and wall temperature ratio on the stagnation point heat transfer for circular cylinders and gas turbine vanes
[NASA-CR-174667] 14 p2109 N84-23649
NAGANO, H.
Zero gravity experiment of superfluid helium
[ISAS-604] 07 p0960 N84-16225
NAGASAKI, M.
Strain analysis of thin composites with Moire method
[NAL-TR-754] 04 p0548 N84-13612
NAGASE, F.
Joint timing analysis of A0535 + 26 at 1980 outburst
[DE84-001320] 07 p1094 N84-17113
NAGATA, J. I.
Preliminary airworthiness evaluation of the UH-60 helicopter with T700-GE-701A engines installed
[AD-A140882] 17 p2606 N84-26696
NAGATA, M.
Bifurcations in nonlinear problems of hydrodynamic instability of plane parallel shear flows 06 p0831 N84-15411
Retrieval for remote sensing image data base with multimedia user interface 23 p3766 N84-33870
NAGATA, S.
Picking up an object from a pile of objects
[AD-A133631] 05 p0716 N84-14691
NAGEL, L.
Fabrication and properties of multilayer structures
[AD-A131934] 03 p0451 N84-12969
NAGEL, P. M.
Software reliability: Additional investigations into modeling with replicated experiments
[NASA-CR-172378] 19 p3074 N84-29502
NAGEL, S. R.
Flying the orbiter in the approach/landing phase 01 p0027 N84-10170
NAGHDI, P. M.
Calculations for uniaxial stress and strain cycling in plasticity
[AD-A135800] 09 p1332 N84-18698
Some remarks on rate-dependent plasticity
[AD-A136084] 09 p1333 N84-18704

NAGIN, A. S.
Influence of boundary volume structure on grain boundary relaxation of cast heat resistant nickel alloys
24 p3877 N84-34569
NAGIRNYI, V. M.
The cathodic polarization of nickel during precipitation from pure solutions without additions
[BLL-OA-TRANS-3004-(6196.3)]
01 p0043 N84-10275
The cathodic polarization of nickel during precipitation from pure solutions without additions
[BLL-OA-TRANS-3003-(6196.3)]
01 p0043 N84-10276
NAGL, A.
Acoustic exploration of ocean floor properties based on the ringing of sediment layer resonances
[AD-A138245] 12 p1899 N84-22367
Elastic wave scattering from cylindrical cavities and solid inclusions analyzed by the resonance method
[AD-P002971] 14 p2201 N84-24207
NAGLE-ESHLEMAN, J.
The Shock and Vibration Digest, volume 15, no. 9
[AD-A134750] 08 p1168 N84-17609
The Shock and Vibration Digest, volume 15, no. 5
[AD-A131729] 10 p1505 N84-19838
The Shock and Vibration Digest, volume 15, no. 6
[AD-A131730] 10 p1505 N84-19841
The Shock and Vibration Digest, volume 15, no. 7
[AD-A132576] 10 p1505 N84-19845
The Shock and Vibration Digest, volume 15, no. 8
[AD-A133708] 10 p1506 N84-19849
The Shock and Vibration Digest, volume 15, no. 10
[AD-A136898] 10 p1506 N84-19855
The Shock and Vibration Digest, volume 15, no. 11
[AD-A137065] 10 p1507 N84-19858
The Shock and Vibration Digest, volume 16, no. 1
[AD-A137502] 10 p1507 N84-19862
The Shock and Vibration Digest, volume 16, no. 2
[AD-A139098] 12 p1821 N84-21874
The Shock and Vibration Digest, volume 16, no. 3
[AD-A139707] 13 p2000 N84-22976
The Shock and Vibration Digest, volume 16, no. 4
[AD-A141077] 21 p3418 N84-31676
The Shock and Vibration Digest, volume 16, no. 7
[AD-A143958] 21 p3418 N84-31679
NAGLE, R.
Observational and theoretical studies of the evolving structure of baroclinic waves 24 p3925 N84-34845
NAGLE, W. J.
Additive for zinc electrodes
[NASA-CASE-LEW-13286-1] 05 p0673 N84-14422
NAGORNII, V. P.
Flute instability of plasma in a gas-dynamic trap
[DE84-013348] 23 p3828 N84-34284
Influence of plasma flow on flute instability
[DE84-013314] 23 p3829 N84-34285
NAGORNYI, M. Y.
A procedure for investigating the composition of the plasma arc
[BLL-M-35454-(5828.4)] 09 p1391 N84-19083
NAGURA, R.
Crystal growth of artificial snow
18 p2799 N84-27763
NAGY, A. E.
AFCRL (Air Force Cambridge Research Laboratories) acoustic wind sensor system
[AD-A133739] 05 p0708 N84-14641
NAGY, Z.
Metal dissolution kinetics in halide melts
[DE84-004030] 19 p2995 N84-28977
NAIDIC, J. V.
Effect of formation conditions and contact zone structure on adhesion strength of carbide forming metal coatings on diamond
[CSIR-TRANS-1735] 22 p3552 N84-32492
NAIK, M.
Effect of refractory elements on the coherency strain and flow stress on nickel-base superalloys
[AD-A142220] 19 p2994 N84-28975
NAIK, R. V. A.
Failure analysis of a graphite/epoxy laminate subjected to bolt bearing loads
[NASA-TM-86297] 22 p3544 N84-32436
NAIL, K., JR.
Chronology of KSC and KSC related events for 1981
[NASA-TM-85498] 07 p1084 N84-17047
Chronology of KSC and KSC related events, 1982
[NASA-TM-85576] 12 p1917 N84-22491
NAITOH, P.
Minicomputer administered tasks in the study of effects of sustained work on human performance
[AD-A133870] 05 p0715 N84-14688
Extending human effectiveness during sustained operations through sleep management
[AD-A134782] 08 p1200 N84-17825
NAIZHI, B.
The growth and measurement of single-crystal doped GGG (Gd3-xCaxGa5-xZrx012)
[AD-A131875] 03 p0452 N84-12971
NAJI, A.
Reanalysis of mechanical structures
15 p2349 N84-25099
NAJITA, J. R.
2nd Joint Solar Dynamics Project data summary: Solar magnetic field, chromospheric and coronal observations near the time of the 11 June 1983 solar eclipse
[NASA-CR-173340] 09 p1417 N84-19272
NAJM, M.
Optimization of ultrasonic flaw detection in railroad rail
[PB83-236919] 03 p0386 N84-12518
NAJMABADI, F.
START/TM: A study of start-up and fractional power operation of tandem mirror fusion reactors
[DE84-011477] 21 p3502 N84-32196
NAKA, S.
Study of low temperature plastic deformation mechanisms of alpha-titanium single crystals
[ONERA-NT-1983-7] 16 p2560 N84-26422
NAKAGAKI, T.
Synfuel modified diesel
[DE84-002189] 10 p1502 N84-19819
NAKAGAWA, R.
A pioneer deep ocean mining venture
[PB84-199645] 21 p3433 N84-31780
NAKAHAM, J. H.
Synthesis of perfluoroalkylene dianilines
[NASA-CR-168004] 02 p0189 N84-11228
NAKAHASHI, K.
Computations of transonic, chemically reacting flows in rocket nozzles
[NAL-TR-766] 09 p1274 N84-18318
A practical adaptive-grid method for complex fluid-flow problems
[NASA-TM-85989] 19 p2958 N84-28745
NAKAI, H.
Experimental study on porous-plug phase separator for superfluid He2
[ISAS-612] 20 p3308 N84-31008
NAKAI, Y.
Orbit determination and prediction study for Dynamic Explorer 2
[NASA-TM-85098] 02 p0183 N84-11192
Cross sections for charge transfers of highly ionized ions in hydrogen atoms
[IPPJ-AM-30] 03 p0443 N84-12912
Electron capture and loss cross sections for collisions between heavy ions and hydrogen molecules, revised
[IPPJ-AM-28] 03 p0444 N84-12914
NAKAIKE, Y.
Mass transfer during drop formation in the presence of interfacial turbulence in the liquid-liquid systems
[BLL-DOUNREAY-TR-923-(9091.9F)]
09 p1311 N84-18568
NAKAJIMA, A.
Lunar exploration by polar orbiter
[NAL-TR-755] 09 p1416 N84-19265
NAKAJIMA, H.
Microwave and X-ray observations of delayed brightenings at sites remote from the primary flare locations
[NASA-TM-86140] 22 p3680 N84-33326
NAKAJIMA, T.
Field trial of composite fiber-optic overhead ground wire 11 p1720 N84-21221
NAKAMICHI, M.
A unified approach to composite MVL with monotonic subfunction
[AD-P002368] 14 p2194 N84-24159
NAKAMOTO, T.
The heat pipe exchanger with controllable heat exchanging area 20 p3169 N84-30124
NAKAMURA, A.
Three-valued logic and its application to the query language of incomplete information
[AD-P002355] 14 p2192 N84-24146
NAKAMURA, M.
Experiment of a shockless transonic airfoil
[NAL-TR-783] 09 p1251 N84-18166
Calculation of three-dimensional flying object in shockless transonic flow
[NAL-TR-782] 09 p1251 N84-18167
NAKAMURA, S.
Temporal finite elements based on a minimum principle for initial value problems 08 p1216 N84-17935
Experiment of a shockless transonic airfoil
[NAL-TR-783] 09 p1251 N84-18166
NAKAMURA, T.
Some grid generations using conformal mapping
[NAL-TR-758] 04 p0586 N84-13871
High magnetic field MHD generator program
[DE84-007890] 15 p2411 N84-25474
Some methods for numerical conformal mapping
[NAL-TR-794T] 16 p2548 N84-26354
NAKAMURA, T. M.
Transmitting two-level balanced code within the bandwidth of straight binary code-transmission
13 p2039 N84-23231
NAKAMURA, Y.
Numerical simulation of vortex breakdown by the vortex-filament method 03 p0325 N84-12126
Earth strain measurements with the transportable laser ranging system: Field techniques and planning
[NASA-CR-175150] 08 p1186 N84-17725
NAKANISHI, S.
Cathode degradation and erosion in high pressure arc discharges
[NASA-TM-83638] 13 p1942 N84-22831
NAKANISHI, T.
A method of economical gear finishing of surface hardened gears 07 p0983 N84-16370
NAKANIWA, N.
Zero gravity experiment of superfluid helium
[ISAS-604] 07 p0960 N84-16225
Experimental study on porous-plug phase separator for superfluid He2
[ISAS-612] 20 p3308 N84-31008
NAKANO, Y.
Transport of water in frozen soil. I: Experimental determination of soil-water diffusivity under isothermal conditions
[AD-A135419] 08 p1177 N84-17671
NAKAO, J. H.
Water resources data for New York, water year 1982. Volume 2: Long Island
[PB84-119536] 09 p1339 N84-18742
NAKASHIMA, K.
Synthesis method for ternary logic function based on NAND-type polypheck
[AD-P002348] 14 p2192 N84-24139
NAKATANI, I.
Fine pointing control of the solar UV telescope on the sounding rocket S-520-5
[ISAS-608] 06 p0938 N84-16094
NAKAYA, I.
Modeling of compartment fires
04 p0512 N84-13364
NAKAYA, P. S.
Meteorological database
[INPE-2790-PRE/353] 09 p1399 N84-19135
A system for managing meteorological data
[INPE-3029-PRE/466] 17 p2733 N84-27373
NAKAYAMA, H.
The heat pipe exchanger with controllable heat exchanging area 20 p3169 N84-30124
NAKAYAMA, K.
Bending elasticity of circularly notched bars as monolithic flexure hinges in precision mechanisms
[DE84-002199] 06 p0861 N84-15612
NAKAYAMA, M.
Magnetic record support
[NASA-TM-77619] 24 p3902 N84-34709
NAKAZAWA, M.
Resonator insensitive to paraxial accelerations
[AD-D010998] 19 p3018 N84-29130
NALBANDIAN, S. J.
Low concentration ratio solar array structural configuration 08 p1111 N84-17225
NALDI, G.
Multiple access mobile radio systems for private networks 10 p1477 N84-19654
NALETTE, T. A.
Preprototype SAWD subsystem
[NASA-CR-171760] 10 p1553 N84-20177
NALIMOV, V. N.
Effect of certain geometrical parameters on metrological characteristics of multichamber black body
17 p2637 N84-26871
NAM, S. B.
Compound semiconductor characterization
[AD-A143601] 23 p3830 N84-34292
NAMAZIAN, M.
Density fluctuations in premixed turbulent flames
[DE84-012055] 21 p3361 N84-31322
NAMAZOV, S. A.
Intensity of radiowave scattering on anisotropic irregularities with various positions of scattering volume about caustic zone 22 p3566 N84-32585
NAMER, I.
Combustion characteristics in the transition region of liquid fuel sprays
[NASA-CR-175396] 10 p1454 N84-19495
Combustion characteristics in the transition region of liquid fuel sprays 11 p1609 N84-20534
NAMIHIRA, Y.
Design and test results of optical fiber units for optical submarine cable 11 p1723 N84-21243

NAMITOKOV, K. K.
Stability of fuses under cyclic load
17 p2639 N84-26882
NAMKOONG, D.
Determination of the key parameters affecting historic communications satellite trends
[NASA-TM-83633] 16 p2481 N84-25908
NAMORDI, M. R.
GaAs FET logic at low temperatures
[AD-A135007] 08 p1150 N84-17483
NAMTALASHVILI, G.
Corrosion resistant glass coating for metals
23 p3706 N84-33495
NANAYAKKARA, M. A.
Formulation of stiffness matrices for elastic buckling of thin-walled open section prismatic columns
[TT-8402] 20 p3204 N84-30353
NANDA, A.
Three-dimensional analysis of composite plates with material nonlinearity
[AD-A131884] 03 p0347 N84-12258
NANDI, S.
W decay in supergravity GUTS
[DE83-015144] 02 p0291 N84-11911
NANDI, U. S.
Improved acrylic systems for rapid runway repair
[AD-A130389] 01 p0016 N84-10103
NANDY, K.
Catalogue of stellar ultraviolet fluxes. A compilation of absolute stellar fluxes measured by the Sky Survey Telescope (S2/68) aboard the ESRO satellite TD-1
15 p2423 N84-25558
Study of hot spot galaxies 24 p3971 N84-35143
The hydrogen-deficient irregular variable star V348 SGR 24 p3978 N84-35200
NANN, E.
Maintenance free lead acid battery with high cycle life and a new type of grid
[BMFT-FB-T-83-156] 05 p0677 N84-14453
NAPFEL, H. F.
The Fairchild Digital Flight Recorder (DFR) F 800
17 p2586 N84-26576
NAPOLITANO, D. A.
Synthetic aperture radar images of ocean waves, theories of imaging physics and experimental tests
17 p2714 N84-27275
NAPOLITANO, M.
Three-dimensional implicit lambda methods
[NASA-CR-172264] 05 p0627 N84-14123
NAPPO, C. J.
Representativeness of meteorological observations
[DE83-017699] 04 p0568 N84-13743
NARAGHI, M.
Autoregressive models for use in scene segmentation
03 p0393 N84-12561
NARAIN, A.
Shearing deformation of simple materials
11 p1666 N84-20872
NARAIN, S.
Distributed problem solving for air fleet control: Framework and implementations
[AD-A143168] 21 p3327 N84-31108
NARAMOTO, H.
Ion implantation, ion beam mixing and annealing studies of metals in Al2O3, SiC and Si3N4
[DE84-012336] 20 p3157 N84-30052
NARASIMHAN, B.
Design of office information systems
[AD-A136523] 09 p1404 N84-19170
An analysis of application generators
[AD-A137159] 11 p1708 N84-21131
NARAYAN, J.
Kinetics of solid-phase crystallization in ion-implanted and deposited amorphous-silicon films
[DE83-015499] 02 p0300 N84-11967
Semiconductor processing with excimer lasers
[DE83-007509] 03 p0380 N84-12477
Ion implantation, ion beam mixing and annealing studies of metals in Al2O3, SiC and Si3N4
[DE84-012336] 20 p3157 N84-30052
NARAYANA, K. B.
Thermal network correction by simplex optimization
10 p1442 N84-19422
NARAYANA, K. G. I.
Three component solar wind model
16 p2581 N84-26555
NARCISI, R. S.
Overview of project Brazil Ionospheric Modification Experiment (BIME) 05 p0639 N84-14207
Real-time in-situ targeting of geoplasma domains for purposes of chemical injection and artificial triggering of equatorial spread-F 05 p0639 N84-14208
Plasma composition and structure characterization of an ionospheric barium cloud 05 p0640 N84-14213
The gaseous and plasma environment around space shuttle
[AD-A133900] 05 p0643 N84-14231
NARDONE, V. C.
The role of anelastic strain in the cyclic creep behavior of a particle strengthened alloy
17 p2677 N84-27053
NARDONI, G.
A comparison between new and traditional ultrasonic techniques on thick welds in pressure vessels
[CISE-2074] 05 p0690 N84-14534
NARDUCCI, L. M.
Self-pulsing, breathing and chaos in optical bistability and the laser with injected signal
14 p2232 N84-24386
Resonant Frustrated Total Reflection (FTR) approach to optical bistability in semiconductors
14 p2234 N84-24405
Collective instabilities and high-gain regime free electron laser
[DE84-008172] 15 p2340 N84-25045
NARENDRA, K. S.
A learning approach to routing in data communication networks
[REPT-8212] 06 p0899 N84-15834
NARIMATSU, Y.
Crystal growth of artificial snow
18 p2799 N84-27763
NARIN, F.
Further delineation of the utilization of scientific literature by U.S. patents
[PB84-100734] 08 p1238 N84-18095
Further delineation of the utilization of scientific literature by U.S. patents. Appendices A: Distribution of references contained in patents to various sources
[PB84-100742] 08 p1239 N84-18096
NARITA, H.
Snow cover observations at Avalanche Research Station, Tokanbetsu, northern Hokkaido, 15 (1982-1983 winter) 23 p3762 N84-33844
NAROVLYANSKIY, V. G.
Transformers with voltage regulation for electric supply networks 17 p2639 N84-26881
NARULA, A.
Radiolysis of resist polymers. 1: Poly(methyl-alpha-haloacrylates) and copolymers with methylmethacrylate
[AD-A131864] 03 p0356 N84-12315
Radiolysis of resist polymers. 2: Poly(haloalkylmethacrylates) and copolymers with methylmethacrylate
[AD-A132095] 04 p0507 N84-13321
NARUSE, Y.
Influence of deflocculant on the isoelectric point of refractory powders: Considerations on the action of deflocculant
[NASA-TM-77364] 07 p0969 N84-16277
NARVA, A.
General aviation pilot and aircraft activity survey
[PB84-154301] 14 p2100 N84-23602
NASALSKI, W.
The exact surface impedance approach to problems of diffraction in open waveguides 16 p2478 N84-25888
NASH, D. B.
Evaluation of thermal data for geologic applications
[NASA-CR-173211] 07 p1033 N84-16703
Demonstration of an active airborne IR laser system for geologic remote sensing 23 p3782 N84-33984
NASH, J. G.
Concurrent VLSI architectures for two dimensional signal processing systems 09 p1402 N84-19162
Design study of floating point systolic VLSI chip
[AD-A141868] 19 p3013 N84-29102
NASH, L.
Analysis of US Coast Guard HU-25A visual and radar detection performance
[AD-A133380] 06 p0784 N84-15138
NASH, R. A.
Alternate T-38 transparency development. Part 4: Parametric studies
[AD-A131904] 03 p0331 N84-12159
Parametric studies of the T-38 student windshield using the finite element of code MAGNA (Materially and Geometrically Nonlinear Analysis)
[AD-P003232] 17 p2597 N84-26645
NASH, R. W.
Digital instrumentation package or an improved torsion pendulum
[PB83-240424] 04 p0539 N84-13547
NASH, T. J.
Impurity characteristics of TMX-U
[DE84-012413] 20 p3297 N84-30932
NASHIF, A. D.
A vibration damping treatment for high temperature gas turbine applications 10 p1514 N84-19912
NASKIDASHVILI, B. D.
Calculations of the amplitude spectrum of the 27-day variations of galactic cosmic rays
24 p3993 N84-35271
Lunar variations of cosmic ray intensity
24 p3993 N84-35272
NASRALLAH, M. M.
Redox behavior of high temperature electrodes
11 p1741 N84-21359
NASSER, S. H.
An investigation of the interaction between multiple dilution jets and combustion products
15 p2292 N84-24758
NAST, T. C.
Investigation of a para-ortho hydrogen reactor for application to spacecraft sensor cooling
[NASA-CR-175131] 06 p0916 N84-15957
NASTROM, G. D.
Temperature histories of commercial flights at severe conditions from GASP data
[NASA-CR-168247] 02 p0175 N84-11152
Simultaneous cabin and ambient ozone measurements on two Boeing 747 airplanes. Volume 2: January to October 1978
[NASA-TM-81733] 12 p1917 N84-22488
Climatology of ozone at altitudes from 19,000 at 59,000 feet based on combined GASP and ozonesonde data
[NASA-TP-2303] 21 p3446 N84-31865
GASP cloud- and particle-encounter statistics and their application to LPC aircraft studies. Volume 1: Analysis and conclusions
[NASA-TM-85835] 24 p3923 N84-34828
NASYROV, A. A.
Genetic control and phenotypic correction of cellular immune response to H-antigen of Salmonella typhimurium 17 p2740 N84-27400
NATALI, A.
The debugging of real time multiprocessor systems: An integrated solution proposal
[CISE-2067] 06 p0899 N84-15837
NATALI, G.
Resonant parametric transducer
[IFSI-83-10] 18 p2835 N84-27995
NATARAJAN, P.
Surface fatigue characteristics of transmission gears
15 p2307 N84-24843
NATENBRUK, P.
Control aspects as elaborated in space rendezvous simulations 15 p2268 N84-24616
Detailed system studies on rendezvous and docking
[ERNO-RX-015-2/83] 23 p3697 N84-33427
NATESAN, K.
Corrosion behavior of Fe-Cr-Ni-Zr alloys in aggressive environments at high temperatures
[DE83-014735] 03 p0353 N84-12297
Breakaway corrosion in mixed-gas environments
[DE83-014704] 03 p0354 N84-12299
The influence of Al2O3 and surface scales on alloy degradation at elevated temperatures
[DE84-007299] 15 p2298 N84-24794
Improved oxidation sulfidation resistance of Fe-Cr-Ni alloys
[DE84-010066] 20 p3156 N84-30039
Oxidation-sulfidation behavior of Fe-Cr-Ni alloys containing additions of Zr, Nb, or Ti
[DE84-005411] 20 p3156 N84-30043
NATHAL, M. V.
Replacing critical and strategic refractory metal elements in nickel-base superalloys
[NASA-TM-83528] 04 p0498 N84-13264
Influence of composition on the microstructure and mechanical properties of a nickel-base superalloy single crystal
[NASA-TM-83563] 08 p1131 N84-17354
Influence of cobalt, tantaum and tungsten on the high temperature mechanical properties of single crystal nickel-base superalloys
[NASA-TM-83479] 08 p1131 N84-17355
Influence of cobalt, tantalum and tungsten on the high temperature mechanical properties of single crystal nickel-base superalloys 23 p3716 N84-33558
NATHENSON, R. D.
Magnetohydrodynamic power generation, electromagnetic pumps, heat pipes, and thermionic convertors
[DE84-009195] 15 p2411 N84-25475
NATIONS, H. L.
H alpha and TiO band observations of RS CVn stars
13 p2069 N84-23410
NATTRASS, H. L.
Laboratory measurements of subsynchronous resonance
[RL-8845] 11 p1667 N84-20877

NATZLE, W. C.
Dissociative ionization of liquid water induced by vibrational overtone excitation
[DE83-017739] 04 p0495 N84-13251
NAUGLE, D. F.
Air monitoring techniques for space shuttle launches Vandenberg Air Force Base
[AD-A132956] 05 p0700 N84-14593
USAF Space Shuttle dispersion modelling
[AD-A132957] 05 p0700 N84-14594
Environmental monitoring instrumentation and monitoring techniques for space shuttle launches
[AD-A136594] 09 p1342 N84-18766
NAUJOKAS, G. J.
AFRPL solar-thermal rocket activities
20 p3140 N84-29938
NAUMANN, K. H.
New conformal solution theory
[PB83-249441] 03 p0457 N84-13008
Conformal solution methods based on the hard convex body expansion theory, section 1
[PB84-100940] 08 p1128 N84-17332
NAUMANN, R. J.
Containerless high purity pulling process and apparatus for glass fibers
[NASA-CASE-MFS-25905-2] 22 p3564 N84-32569
NAUMENKO, K. I.
Determining orientation of solid object
17 p2642 N84-26907
NAUSED, B. A.
Signal processing in high data rate environments. Design tradeoffs in the exploitation of parallel architectures and fast system clock rates. An overview
09 p1401 N84-19151
NAVA, D. F.
The reaction NH2 + PH3 yields NH3 + PH2: Absolute rate constant measurement and implication for NH3 and PH3 photochemistry in the atmosphere of Jupiter
[NASA-TM-85063] 13 p2072 N84-23430
NAVANEETHAN, R.
General aviation aircraft interior noise problem: Some suggested solutions
[NASA-CR-173784] 19 p3099 N84-29685
NAVIERE, H.
Experimental and theoretical studies of parietal viscous boundaries in a single stage transonic compressor
07 p0957 N84-16206
NAVON, I. M.
A Numerov-Galerkin technique applied to a finite element shallow-water equations model with enforced conservation of integral invariants and selective lumping
[CSIR-TWISK-276] 04 p0587 N84-13878
Computational aspects of the nonlinear normal mode initialization of the GLAS 4th order GCM
12 p1853 N84-22071
Application of augmented-Lagrangian methods in meteorology: Comparison of different conjugate-gradient codes for large-scale minimization
12 p1854 N84-22076
NAWATA, K.
Method of refining 2,2-isopropylidenebis-3,5-dibromophenylene-4-oxydiethanol
[NASA-TM-77458] 10 p1453 N84-19492
NAYDINA, V. P.
Physiological and ecological characteristics of the water fern, azolla pinnata, and prospects of using it in biological life-support system for man 02 p0261 N84-11709
NAYFEH, M. H.
Nonlinear interactions between the pumping kinetics, fluid dynamics and optical resonator of CW fluid flow lasers
[AD-A139189] 14 p2150 N84-23882
NAZARATHY, M.
Optical computing research
[AD-A143994] 23 p3825 N84-34258
NAZARENKO, N.
Polymer thick-film conductors and dielectrics for membrane switches and flexible circuitry
12 p1840 N84-21994
NAZAROFF, W. W.
Control of respirable particles and radon progeny with portable air cleaners
[DE84-013878] 23 p3812 N84-34170
NAZAROV, M. V.
Algorithms of adaptive Markov filtration of noisy speech signals 17 p2630 N84-26822
NAZAROV, V.
Improving automated statistical data processing
24 p3942 N84-34956
NAZAROVA, T. N.
Earth's dust envelop 19 p2976 N84-28864
NAZEMETZ, J.
Geometric modeling of large space antenna deployment 12 p1876 N84-22225
NCIRI, B.
Thermodynamics and kinetics of the gas phase and pack aluminide coating formation on iron and steel
13 p2049 N84-23291
NEAL, D.
A simulation process for determining reliability of cyclic random loaded structures
[AD-P003849] 24 p3939 N84-34936
NEAL, V.
The Advanced X-ray Astrophysics Facility. Observing the universe in X-rays
[NASA-EP-199] 12 p1921 N84-22517
Repairing Solar Max: The Solar Maximum Repair Mission
[NASA-EP-205] 19 p2979 N84-28883
NEALE, C.
Evaluation of bidirectionally conducting thyratrons for pulsed excimer lasers
[DE84-013890] 22 p3602 N84-32818
NEALE, P. T.
Elastic buffers for digital rings
[NPL-DITC-38/84] 20 p3172 N84-30143
NEASE, A. B.
Characterization of glass-filled engineering thermoplastic composites
[DE84-000361] 04 p0492 N84-13231
Characterization of polyetheretherketone and other engineering thermoplastics
[DE84-010668] 23 p3725 N84-33603
NEATHAMMER, R. D.
Strategies for and validity of noise monitoring in the vicinity of civilian airfields and army installations
[AD-A137780] 11 p1729 N84-21279
Community reaction to impulsive noise: A 10-year research summary
[AD-A141762] 19 p3052 N84-29369
NEAU, E. L.
The COMET: A 6-MV, 400-kJ, magnetically-switched pulse-power module
[DE83-013077] 02 p0290 N84-11901
NEBEKER, D. M.
Productivity improvement in a purchase division: Evaluation of a Performance Contingent Reward System (PCRS)
[AD-A133589] 07 p1050 N84-16801
NEBUCHINOV, M. V.
Use of Peltier effect for small signal amplification and conversion 20 p3286 N84-30864
NECHAEV, O. Y.
The study of peculiarities of the energy spectrum of low energy electrons in the lower atmosphere
24 p3993 N84-35273
NECHAEV, Y. S.
Diffusional anomalies in deformed metals
[BLL-M-35490-(5828.4)] 12 p1795 N84-21708
NECHAYEV, V. M.
Dynamic stress in elastic areas developing upon interaction of intensive heat fluxes with solid bodies
24 p3673 N84-34545
NECHITAYLO, G.
Birth of space plant growing
[NASA-TM-77244] 07 p1042 N84-16756
Development of space botany experiments
09 p1264 N84-18255
NEDELL, B. F.
Flight evaluation results from the general-aviation advanced avionics system program
[NASA-TM-84397] 01 p0007 N84-10042
Software modifications to the Demonstration Advanced Avionics Systems (DAAS)
[NASA-TM-85942] 21 p3327 N84-31105
NEDELL, W.
Design, development and flight test of a demonstration advanced avionics system 06 p0773 N84-15067
NEDOSPASOV, A. V.
Plasma in diverter during intense recycling
20 p3288 N84-30877
NEDUGOV, A. V.
Analytical determination of resistance of aluminium alloys to deformation
[BLL-M-35476-(5828.4)] 12 p1796 N84-21714
NEDZELNITSKY, O. V., JR.
A learning approach to routing in data communication networks
[REPT-8212] 06 p0899 N84-15834
NEE, C. C.
Pulsed electrodeposition of amorphous and composite alloys
[AD-A132848] 05 p0646 N84-14246
NEE, J. B.
Vacuum ultraviolet photofragmentation of H2O and NO2: Laboratory studies and atmospheric applications
06 p0876 N84-15703
NEEDHAM, J. R.
Evaluation of unthrottled combustion system options for light duty applications with future syncrude derived fuels
[DE83-017047] 03 p0358 N84-12327
NEEDLEMAN, A.
Comparison of methods for calculating energy release rates
[DE84-012231] 20 p3204 N84-30350
Combined macroscopic and microscopic approach to the fracture of metals
[DE84-014670] 23 p3719 N84-33577
NEEK, D.
The 100% alignment of hydrogen excited states in beam-foil spectroscopy
[DE83-017963] 03 p0436 N84-12859
Fast ion atomic spectroscopy
[DE84-006720] 15 p2404 N84-25432
NEELY, D. R. G.
Systems development and applications software in medical facilities
[AD-A141306] 18 p2945 N84-28674
NEELY, G. H.
Application of improved numerical schemes
11 p1610 N84-20537
NEELY, G. M.
Flame radiation and liner heat transfer in a tubular-can combustor
[NASA-TM-83538] 04 p0485 N84-13188
NEEMAN, E.
Daylight availability as a function of atmospheric conditions
[DE84-007973] 20 p3247 N84-30609
NEEMAN, Y.
Some double-valued representations of the linear groups
[DE84-001525] 04 p0593 N84-13913
NEESE, W. E.
Extinguisher agent behavior in a ventilated small aircraft
[FAA-CT-83-30] 07 p0949 N84-16158
NEFEDOV, Y. G.
Main results of medical studies on Salyut-6--Soyuz program 15 p2375 N84-25249
Sanitary and hygienic features of cabin environment in Salyut-7 orbital station 15 p2375 N84-25253
NEFEDOV, Y. I.
High-Q open resonator structures with sparse spectrum 20 p3288 N84-30876
NEFESOGLU, A.
Heat transfer measurements of internally finned rotating heat pipes
[AD-A140847] 17 p2668 N84-27015
NEFF, D. E.
Heat transfer effects during cold dense gas dispersion
[PB84-162999] 14 p2177 N84-24043
NEFF, J. A.
Future directions in optical processing
12 p1904 N84-22403
NEFF, O.
Modern software development tools in space projects on the example of a Spacelab experiment
05 p0725 N84-14761
Assessment of data handling configurations for onboard operating system definition (phase 1)
[ESA-CR(P)-1787] 09 p1273 N84-18314
NEFF, W.
A plasma focus with improved reproducibility
10 p1583 N84-20375
Observation of nonlinear phenomena
10 p1584 N84-20385
Case study of layer fine structure and turbulence within stable elevated layers
[PB84-158666] 14 p2182 N84-24076
NEFF, W. A.
Aspects of electroless nickel plating on molybdenum
[DE84-006434] 20 p3158 N84-30057
NEGISHI, K.
A blowup phenomenon of the working fluid in a two-phase closed thermosyphon
20 p3169 N84-30122
NEGRI, A. J.
Rain estimation from satellites: An examination of the Griffith-Woodley technique
[NASA-TM-84969] 04 p0566 N84-13735
NEGRIN, M.
Improved dynamic models for air combat analysis
[TAE-483] 06 p0905 N84-15876
NEHL, T. W.
Improved transistor-controlled and commutated brushless DC motors for electric vehicle propulsion
[NASA-CR-168053] 01 p0069 N84-10450
Analysis, testing, and evaluation of faulted and unfaulted Wye, Delta, and open Delta connected electromechanical actuators
[NASA-CR-171808] 22 p3585 N84-32707

NEHRING, U.
Model equations describing unsteady fluid motion
[DFVLR-MITT-83-17] 10 p1495 N84-19775
NEIDIG, D. F.
A catalog of solar white-light flares, including their statistical properties and associated emissions, 1859 - 1982
[AD-A138645] 14 p2251 N84-24521
NEIDLINGER, H. H.
Improved polymers for enhanced-oil-recovery synthesis and rheology
[DE83-017371] 04 p0507 N84-13324
Solar Thermal Technology Program: Polymer synthesis and characterization subtask, FY 1983
[DE84-000094] 10 p1530 N84-20022
Active solar heating and cooling program. Polymer stabilization film-forming, high-temperature polymers
[DE84-000093] 11 p1675 N84-20929
NEIGHBORS, T. H., III
Characterization and scattering of bounded ultrasonic beams
[AD-A138491] 12 p1899 N84-22369
NEIGHBOURS, J. R.
Cerenkov radiation from bunched electron beams, revised
[AD-A137533] 11 p1729 N84-21280
Diffraction effects in Cerenkov radiation
[AD-A137540] 11 p1729 N84-21281
Measurement of LINAC bunch parameters using the Cerenkov effect
[AD-A143128] 21 p3493 N84-32136
Radiation from intense electron beams associated with the Cherenkov mechanism
[AD-A143350] 22 p3577 N84-32657
Time development of Cerenkov radiation
[AD-A143225] 22 p3653 N84-33155
NEIHOF, R. A.
Microbial deterioration of hydrocarbon fuels from oil shale, coal and petroleum. III: Inhibition of fungi by fuels from coal
[AD-A137177] 10 p1469 N84-19596
NEIL, M.
The ISPM solar-flare X-ray and cosmic gamma-ray burst experiment 09 p1262 N84-18238
NEIL, V. K.
Beam dynamics in the Advanced Test Accelerator (ATA)
[DE84-001421] 04 p0598 N84-13947
NEILAN, R. E.
Satellite Emission Range Inferred Earth Survey (SERIES) project
[NASA-CR-173728] 18 p2791 N84-27714
NEILL, C.
Ecological models of the Mississippi Deltaic Plain Region: Data collection and presentation
[PB83-239012] 02 p0245 N84-11604
NEILO, N. I.
Evaluation of characteristics of system of space-time processing of signals by statistical simulation method 17 p2633 N84-26845
NEILSON, G. F.
A feasibility study of the production of low loss IR fibers in space
[NASA-CR-173430] 14 p2225 N84-24351
NEILSON, G. H.
Recent progress on ATF
[DE84-007523] 15 p2411 N84-25476
NEILSON, R. H.
Synthesis of phosphorus-nitrogen polymers using Si-N-P reagents
[AD-A135224] 08 p1137 N84-17392
A twisted P-C double bond: Synthesis and structure of a (Methylene)phosphine Fe-CO-4 complex
[AD-A141502] 19 p2984 N84-28907
Substitution and addition reactions of a (Methylene)phosphine with alkyllithium reagents
[AD-A141512] 19 p2984 N84-28908
Synthesis and structure of sulfur derivatives of a (methylene)phosphine
[AD-A141513] 19 p2984 N84-28909
NEILSON, R. M., JR.
Joining silicon nitride based ceramics: A technical assessment
[DE84-011356] 20 p3164 N84-30092
NEISHLOS, H.
Approximation of compressible fluid in fluid-structure interaction problems
[CSIR-R/NIAST-15] 11 p1651 N84-20778
NEISWANDER, P. N.
Compatibility and accelerated aging study for Li(Si)/FeS/sub 2 thermally activated batteries
[DE84-006099] 12 p1813 N84-21818
NEISWANDER, R.
Vibration Control Of Space Structures VCOSS B: Momentum exchange and truss dampening
[AD-A139910] 15 p2281 N84-24701
NEJAD, A. S.
Effect of physical properties on break-up and atomization of liquid jets in a supersonic crossflow 24 p3851 N84-34427
NEKHAYEV, A. L.
Results of investigation of adaptive speech codes 21 p3376 N84-31428
NEKLYUDOV, A. A.
Circuit engineering principles for construction of bipolar large-scale integrated circuit storage devices and very large-scale main memory 21 p3379 N84-31441
NEL, D. G.
A predictive view of the detection of influential observations in Gmanova
[CSIR-TR-83] 04 p0591 N84-13904
NELANDER, A.
Informatics 1983: Signal processing
[FOA-A-30033-E] 15 p2321 N84-24932
NELANDER, C.
A quasi-continuous transonic wind tunnel for cryogenic operation
[ROLLAB-MEMO-RM-096] 06 p0792 N84-15161
NELEPO, B.
Nelepo describes Intercosmos-Black Sea experiment 09 p1265 N84-18257
NELEPO, B. A.
Quasibiennial cycle of thermodynamic atmosphere-ocean interaction in North Atlantic 17 p2700 N84-27198
NELL, G. E.
Water resources data for Indiana, water year 1982
[PB84-114990] 09 p1339 N84-18747
NELLIS, W. J.
Shocked fluids at high densities and temperatures
[DE83-015901] 02 p0219 N84-11437
Aluminum as a global high-pressure equation-of-state standard
[DE84-000153] 04 p0501 N84-13287
Rail accelerator development for ultra-high pressure research
[DE84-002452] 07 p0960 N84-16223
Raman spectroscopy of shocked water
[DE84-002468] 07 p0972 N84-16295
NELMS, W. P.
V/STOL concepts in the United States: Past, present, and future
[NASA-TM-85938] 13 p1926 N84-22532
Assessment of aerodynamic performance of V/STOL and STOVL fighter aircraft
[NASA-TM-85937] 13 p1926 N84-22536
V/STOL concepts in the United States: Past, present, and future 16 p2436 N84-25628
Assessment of aerodynamic performance of V/STOL and STOVL fighter aircraft 16 p2437 N84-25636
NELSON, B. E.
Design of the Advanced Toroidal Facility (ATF-1)
[DE83-012641] 03 p0445 N84-12923
NELSON, C.
Quality control analysis of TA-23 glass seals for lithium ambient temperature batteries
[DE84-011719] 20 p3164 N84-30094
NELSON, C. A.
Usual initial and final state effects in quantum chromodynamics
[DE84-010422] 21 p3495 N84-32148
NELSON, C. W.
Transient combustion: Models versus ONERA data
[AD-A131151] 02 p0203 N84-11323
NELSON, D. A.
Higher order numerical simulations of the Knudsen layer
[AD-A131538] 02 p0190 N84-11234
NELSON, D. H.
General purpose magnetic-measurement data-acquisition system
[DE84-001101] 05 p0759 N84-14982
NELSON, D. L.
Review and verification of CARE 3 mathematical model and code
[NASA-CR-166096] 12 p1876 N84-22227
NELSON, D. M.
A self-contained captive trajectory system for a blowdown wind tunnel 14 p2099 N84-23596
NELSON, D. V.
Fracture mechanics evaluation of the static fatigue life of optical fibers in bending 11 p1727 N84-21265
NELSON, F. D.
PAN AIR: A computer program for predicting subsonic or supersonic linear potential flows about arbitrary configurations using a higher order panel method. Volume 4: Maintenance document (version 1.1)
[NASA-CR-3254] 23 p3690 N84-33388
NELSON, G.
Microwave and X-ray observations of delayed brightenings at sites remote from the primary flare locations
[NASA-TM-86140] 22 p3680 N84-33326
NELSON, G. C.
Quantitative determination of the intensities of known components in spectra obtained from surface analytical techniques
[DE84-000926] 04 p0493 N84-13239
NELSON, G. J.
Proceedings of the STIP (Study of Travelling Interplanetary Phenomena) Symposium on Solar Radio Astronomy, Interplanetary Scintillations and Coordination with Spacecraft
[AD-A130687] 01 p0165 N84-11087
NELSON, G. L.
Magneto-optic garnet and liquid crystal optical switches 12 p1905 N84-22410
NELSON, H. E.
Building systems and smoke control 04 p0511 N84-13348
Emergency evacuation flow models 04 p0512 N84-13360
Escape and rescue model 04 p0512 N84-13361
Measuring evacuation difficulty 04 p0512 N84-13363
NELSON, H. G.
Stress-corrosion behavior of aluminum-lithium alloys in aqueous environments
[NASA-TM-85853] 02 p0193 N84-11256
Hygrothermal effects on mechanical behavior of graphite/epoxy laminates beyond initial failure
[NASA-TM-86001] 22 p3544 N84-32438
NELSON, J.
Flight evaluation of the DEEC secondary control air-start capability
[NASA-TM-84910] 09 p1257 N84-18203
NELSON, J. B.
Edge crack growth of thermally aged graphite/polyimide composites
[NASA-TM-85763] 12 p1789 N84-21667
NELSON, J. G.
Visual field perimeter and psychomotor tracking performance measuring apparatus
[AD-D011056] 22 p3596 N84-32775
NELSON, L. Y.
A novel 15.9-micron source
[DE83-015234] 02 p0227 N84-11490
NELSON, M. A.
Use of fiber optics and laser-induced fluorescence for remote measurements of UF6 in strong rotation
[DE83-014195] 01 p0088 N84-10575
Remote thermometry of moving surfaces by laser-induced fluorescence of surface-bonded phosphor
[DE84-004264] 10 p1498 N84-19792
NELSON, M. E.
Implementation and evaluation of two design concepts of the passive ring resonator laser gyroscope
[AD-A138064] 12 p1818 N84-21851
NELSON, N. A.
Permeability of polymetric membrane lining materials
[PB84-166859] 15 p2302 N84-24818
NELSON, O. R.
Solar cycle related range type spread F occurrence characteristics over equatorial and low latitude stations in Brazil
[INPE-3024-PRE/462] 12 p1846 N84-22037
The variation of range type spread F occurrence with a solar cycle at Fortaleza and Cachoeira Paulista
[INPE-3209-PRE/566] 23 p3797 N84-34080
Temporal and latitudinal distribution of ionosphere irregularity in Brazil, data analysis of scintillations in very high frequencies and ionograms
[INPE-3179-TDL/172] 23 p3798 N84-34081
NELSON, P. A.
Advanced battery development in the US
[DE84-010505] 20 p3179 N84-30190
NELSON, R. F.
Impact of Thematic Mapper sensor characteristics on classification accuracy 20 p3213 N84-30410
NELSON, R. L.
Ascent air data system results from the space shuttle flight test program 01 p0020 N84-10125
NELSON, R. M.
NASA Oceanic Processes Program, fiscal year 1983
[NASA-TM-86248] 14 p2183 N84-24078
NELSON, S.
30/20 GHz spacecraft GaAs FET solid state transmitter for trunking and customer-premise-service application
[NASA-CR-168276] 07 p0997 N84-16463
NELSON, S. L.
Distributed processing tools definition. Volume 2: Application of software engineering technology
[AD-A137687] 11 p1704 N84-21106

Distributed processing tools definition. Volume 3: An integrated software engineering environment for distributed processing software development
[AD-A137688] 11 p1704 N84-21107

NELSON, W. E., JR.
Fighter aircraft flight control technology design requirements 11 p1619 N84-20597

NELSON, W. G.
Space station needs, attributes and architectural options: Architectural options and selection
[NASA-CR-173694] 18 p2804 N84-27793

NELSON, W. H.
Geology of the Neptune Range, Antarctica 14 p2162 N84-23946

NELSON, W. R.
Comparison of real-ear attenuation characteristics of the standard SPH-4 earcup and a prototype crushable earcup
[AD-A138042] 12 p1868 N84-22171
Development of a microprocessor based audiometer for threshold shift studies
[AD-A142124] 19 p3065 N84-29448
Temperature rise calculations for the beam pipe in the SLC arcs
[DE84-011764] 20 p3295 N84-30924

NELVING, H. G.
Testing of the United Stirling 4-95 solar Stirling engine on test bed concentrator 18 p2873 N84-28243

NEMAT-NASSER, S.
Report and recommendations for improving constitutive relations used in computer codes
[AD-A133239] 06 p0897 N84-15823
Constitutive models for static and dynamic response of geotechnical materials
[AD-A139293] 14 p2134 N84-23790

NEMATOLLAAHI, K.
Application of interactive computer graphics in finite element analysis 06 p0856 N84-15575

NEMCHINOV, I. V.
Hypersonic flow around flat body in case of intense radiative heat exchange 13 p1972 N84-22795

NEMES, I.
Some aspects of mathematical and chemical modeling of complex chemical processes
[NASA-TM-77055] 07 p0969 N84-16279

NEMETH, T. M.
High alumina cement concrete
[CSIR-BRR-573] 04 p0505 N84-13311

NEMETHY, P.
Proceedings of the 1983 DPF Workshop on Collider Detectors: Present Capacities and Future Possibilities
[LBL-15973] 06 p0910 N84-15911
Searching for limitations in capability due to high average rates 06 p0911 N84-15919

NEMEYER, G. F., JR.
A reliability and failure mode analysis of celestial training device microcomputers employed by SAC and MAC
[AD-A135003] 08 p1209 N84-17885

NEMISH, Y. N.
Three-dimensional stressed state of longitudinally corrugated elastic cylinders 17 p2651 N84-26950

NEMOTO, M.
Current state of titanium coating methods
[BLL-OA-TRANS-3067-(6196.3)] 04 p0498 N84-13268

NENNO, S. B.
Transient response dynamic module modifications to include static and kinetic friction effects 22 p3610 N84-32872

NENONEN, P.
Reactor pressure vessel steels ASME SA 533B and SA508.C1.2: Microstructural investigations
[VTT-RR-219] 07 p0977 N84-16333

NEORI, A.
Yields photosynthetic efficiencies, and proximate chemical composition of dense cultures of marine microalgae, a subcontract report
[DE83-011992] 04 p0570 N84-13757

NEPOMUCENO, L. X.
Techniques of condition monitoring and fault diagnosis in industry 04 p0546 N84-13595
Techniques for predictive maintenance in industrial installation and failure diagnostic 10 p1503 N84-19824
Vibration exposures concerning the drivers of trucks and vehicles operated by Rodotigre 10 p1552 N84-20173
Micrometric cleaning of steel tubes through ultrasonic cavitation
[REPT-61584] 21 p3491 N84-32125
Agglomeration and pecipitation by sonic-inertial means: Abstract of the state of the art
[REPT-0563/84] 21 p3491 N84-32126

NERAD, B. A.
Glass heating panels and method for preparing the same from architectural reflective glass
[NASA-CASE-NPO-15753-1] 23 p3723 N84-33589

NERI, J. A. C. F.
Observations of galactic center for annihilation line at 0.511 MeV
[INPE-2907-PRE/421] 02 p0305 N84-12000

NERI, J. M.
Status of light ion inertial fusion research at NRL (Naval Research Laboratory)
[AD-A135951] 09 p1392 N84-19087

NERKARARYAN, K. V.
Subbarrier absorption in a stationary superlattice
[NASA-TM-77387] 10 p1587 N84-20402

NERMAN, O.
Branching processes in periodically varying environment
[CTH-MATH-1983-12-PREPRINT] 03 p0426 N84-12792
Continuous singular probability measures that are almost lattice
[CTH-MATH-1983-26] 17 p2760 N84-27529

NERO, A. V.
Control of respirable particles and radon progeny with portable air cleaners
[DE84-013878] 23 p3812 N84-34170

NERSESOVA, A. Z.
Handbook on the determination of the physical, thermal and mechanical properties of frozen soils
[NRC/CNR-TT-2064] 03 p0395 N84-12578

NERSON, J. M.
Tools to aid in improving software quality: Application to a structural editor
[ENST-E-83013] 16 p2544 N84-26331

NERUBASHCHENKO, V. V.
Production of titanium powders by the electrolysis of chloride-fluoride melts with a soluble anode
[BLL-OA-TRANS-3136-(6196.3)] 08 p1128 N84-17338

NERVEGNA, N.
Adaptive control of thermal fluid loops for space applications 10 p1444 N84-19433

NESBET, R. K.
Theory of electronic, atomic and molecular collisions
[AD-A134025] 05 p0743 N84-14883

NESBITT, J. A.
Modeling degradation and failure of Ni-Cr-Al overlay coatings
[NASA-TM-83672] 18 p2813 N84-27858
Overlay coating degradation by simultaneous oxidation and coating/substrate interdiffusion
[NASA-TM-83738] 21 p3365 N84-31344

NESKE, E.
Preliminary results from the Heating Rocket (HERO) project: In situ measurements of ionospheric modifications using sounding rockets 05 p0636 N84-14183

NESMITH, M. F.
Self-locking telescoping manipulator arm
[NASA-CASE-MFS-25906-1] 02 p0269 N84-11761
Self-indexing latch system
[NASA-CASE-MFS-25956-1] 11 p1664 N84-20860

NESPOR, J. D.
Polarization utilization in radar target reconstruction: C-wide (Multi-frequency) band relationship of a target's characteristic operators with its unique set of natural eigenfrequencies
[AD-A140092] 15 p2321 N84-24938

NESS, J. C.
Computer program for performance and sizing analysis of compact counter-flow plate-fin heat exchangers, research and development report
[AD-A129856] 01 p0078 N84-10508

NESS, N. F.
Interplanetary flow systems associated with cosmic ray modulation in 1977 - 1980
[NASA-TM-85120] 08 p1246 N84-18149
The Z3 model of Saturns magnetic field and the Pioneer 11 vector helium magnetometer observations
[NASA-TM-86118] 17 p2776 N84-27623

NESSIAGE, G. V.
Interface formation in physically deposited films
[MLM-3089] 16 p2470 N84-25827

NESTERENKO, V. F.
Propagation of nonlinear compression pulses through granular media 21 p3489 N84-32108

NESTERENKO, V. P.
Automatic elimination of static unbalance of rotor in anisotropic bearings 13 p1973 N84-22803

NESTEROV, N.
Measurements of the solar 160 min oscillation at the Metsaehovi radio research station in 1980-1982 and comparison with the results at the Crimean Astrophysical Observatory
[REPT-S-138] 09 p1416 N84-19268

NESTEROVA, Y. I.
Synthesis of polyamides from diamines of the fluorene series
[NASA-TM-77398] 10 p1451 N84-19476

NESTOR, C. W.
MAPPER user's manual
[DE84-003478] 11 p1708 N84-21133

NETHERCOTT, R. B.
Surface modification by physical vapour deposition
[AD-A137844] 11 p1637 N84-20706

NETHERWOOD, P. H., JR.
Dynamic compaction of ceramic materials
[AD-A137257] 11 p1638 N84-20708

NETI, S.
Raman scattering temperature measurements for water vapor in nonequilibrium dispersed two-phase flow
[DE83-900107] 01 p0060 N84-10522

NETNIYOM, T. P.
Design and implementation of software protocol in VAX/VMS using ethernet local area network
[AD-A133699] 05 p0728 N84-14778

NETO, A. R.
Semi-analytical procedure for the propagation of artificial satellite orbits based on parameter estimation
[INPE-2757-PRE/333] 15 p2270 N84-24628
A stochastic approach to global error estimation in the numerical solution of ordinary differential equations 19 p3118 N84-29815
An adaptive satellite orbit estimation scheme using an analytical approach and a dynamical model compensation technique 19 p3119 N84-29821
Attitude determination using strapdown inertial sensors and adaptive estimation
[INPE-3180-PRE/545] 21 p3327 N84-31106
An adaptive attitude controller for terrestrial artificial satellites
[INPE-3186-PRE/551] 21 p3349 N84-31243
Pitch control of a satellite using stabilizing flaps
[INPE-3185-PRE/550] 21 p3349 N84-31246
Application of an adaptive noise technique on state estimation to data smoothing
[INPE-3187-PRE/552] 21 p3465 N84-31963
Compensating technique using one active control scheme to nullify the acummulated effect of modelling deviation
[INPE-3181-PRE/546] 21 p3471 N84-31996
Stochastic control of pitch motion of satellites using stabilizing flaps
[INPE-3235-PRE/584] 24 p3859 N84-34458

NETO, G. C.
Rise in the frequency of cloud cover in LANDSAT data for the period 1973 to 1981
[E84-10047] 04 p0553 N84-13640
Geography information systems project
[INPE-2782-PRE/348] 08 p1239 N84-18100

NETO, O. M.
Sensitivity analysis of the influence of the flexibility of solar panels on the attitude dynamics of artificial satellites
[INPE-2763-PRE/337] 07 p0961 N84-16232
Algorithm for real time control of non linear systems with application to the control satelite alignment systems
[INPE-2755-PRE/331] 09 p1265 N84-18263
Simplified analysis of the problem of retrieval for a stabilized artificial satellite by a gravity gradient
[INPE-2756-PRE/332] 09 p1270 N84-18295

NETTLES, D. W.
Sire: An automated software development environment
[AD-A138022] 12 p1879 N84-22249

NETZ, A. A.
Liquid metal infiltration of an aluminum alloy into a packed column of B4C particles
[DE84-012136] 20 p3158 N84-30055

NETZER, D. W.
Three-dimensional, primitive-variable model for solid-fuel ramjet combustion 13 p1952 N84-22688
Three-dimensional, primitive-variable model for solid-fuel ramjet combustion
[AD-A138756] 13 p1956 N84-22715

NETZER, H.
The 1978 - 1984 fading of the Seyfert 1 galaxy F-9 24 p3972 N84-35149

NEUBAUER, F. M.
Observations of hydromagnetic turbulence in the solar wind 03 p0467 N84-13074

NEUBAUER, H.
On validation of mission software by closed-loop testing in realtime
[MBB-UA-770-83-O] 16 p2563 N84-26446

NEUBAUER, R. F.
Propeller and rotor noise testing in aeroacoustic wind tunnels 14 p2097 N84-23583

NEUBERGER, A. W.
Optimization of a numerical method to calculate elliptic flows
[DFVLR-FB-84-16] 20 p3187 N84-30252
NEUBERGER, B. M.
Productivity improvement in a purchase division: Evaluation of a Performance Contingent Reward System (PCRS)
[AD-A133589] 07 p1050 N84-16801
NEUBRAND, F.
Ceramic components for gas turbines, phase 2
[BMFT-FB-T-83-198] 08 p1105 N84-17183
NEUDOERFL, P.
Research on shear stability of polymer-containing hydraulic oils
[REPT-11] 12 p1800 N84-21737
NEUENSCHWANDER, W. E.
Shuttle TPS thermal performance and analysis methodology 01 p0025 N84-10160
NEUFFER, D.
Lattice for a low-field superconducting super collider
[DE84-006022] 12 p1916 N84-22482
NEUFFER, D. V.
Exploration of phase stability in the surfatron accelerator
[DE84-011416] 20 p3193 N84-30260
NEUGEBAUER, M.
Solar Wind Five
[NASA-CP-2280] 03 p0466 N84-13067
Observational constraints on solar wind acceleration mechanisms 03 p0467 N84-13078
Ion mass spectrometer
[NASA-CASE-NPO-15423-1] 18 p2838 N84-28016
NEUGENT, W.
Guideline for computer security certification and accreditation. Category: ADP (Automatic Data Processing) operations. Subcategory: Computer security. Federal information processing standards
[FIPS-PUB-102] 20 p3268 N84-30736
NEUHAEUSER, G.
Development and prototype production of photovoltaic energy supply systems
[BMFT-FB-T-83-238] 10 p1531 N84-20025
NEUHAUS, B.
Effects of long-term low-level radiofrequency radiation exposure on rats. Volume 2: Average SAR and SAR distribution in man exposed to 450-MHz RFR
[AD-A135455] 09 p1361 N84-18891
NEUHOFF, D. L.
Study of finitistic channel models
[AD-A136139] 09 p1303 N84-18521
NEUHOLD, E. J.
Distributed data base systems with special emphasis toward POREL 12 p1890 N84-22308
NEUKUM, G.
Meteorite bombardment and dating of planetary surfaces
[NASA-TM-77558] 24 p3991 N84-35260
NEUMAIER, F.
Eddy current testing of steam generator tubes
[BLL-RISLEY-TRANS-4584-(9091.9)] 22 p3606 N84-32848
NEUMAN, C. P.
Implementation of automatic focusing algorithms for a computer vision system with camera control
[AD-A133492] 06 p0894 N84-15807
Optical systolic solutions of linear algebraic equations 12 p1905 N84-22405
An algorithm for seam tracking applications
[AD-A141705] 19 p3031 N84-29227
NEUMAN, F.
Minimum-fuel, 3-dimensional flightpath guidance of transfer jets
[NASA-TP-2326] 22 p3537 N84-32394
NEUMAN, S. P.
Estimation of recharge in a small southern Arizona basin by means of hydrological, hydrochemical, and environmental isotope data
[PB84-159672] 20 p3230 N84-30527
NEUMANN-DUSCHA, I.
New technical information media
[CSIR-TRANS-1731] 21 p3518 N84-32284
NEUMANN, B. J.
Optimum forebody shaping for axisymmetric submersibles with turbulent boundary layers and BLO (Boundary Layer Control) afterbodies
[AD-A130950] 01 p0079 N84-10515
NEUMANN, C. J.
Tropical cyclone data tape for the North Atlantic Basin, 1886 - 1983: Contents, limitations and uses
[NOAA-TM-MWS-NHC-22] 16 p2531 N84-26252
NEUMANN, G.
Concept study phase A2 for the solar spectrograph PETRA
[BMFT-FB-W-83-014] 07 p1008 N84-16540
NEUMANN, G. W.
Testing technology working group report IDA/OSD R and M (institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A137526] 10 p1504 N84-19836
NEUMANN, P.
Random fatigue of steels: Sequence effects during the crack initiation phase
[BMFT-FB-T-84-040] 16 p2466 N84-25804
NEUMANN, R.
A field splicing system for single-mode optical fiber 11 p1726 N84-21257
NEUMANN, U.
Waste water treatment with the aid of the addition of activated carbon into the aeration station and reactivation of the spent carbon
[BMFT-FB-T-83-186] 07 p1028 N84-16661
NEUMARK, D. M.
Dynamic resonances in the reaction of fluorine atoms with hydrogen molecules
[DE84-013240] 23 p3823 N84-34242
NEUMEIER, L. A.
Generation, collection, and analysis of welding fumes
[PB84-116607] 09 p1326 N84-18663
NEUMYVAKIN, I. P.
Contributions of space medicine to medical research 14 p2251 N84-24517
NEURGAONKAR, R.
Single crystal growth of ferroelectric tungsten bronze compositions for SAW applications
[AD-A141741] 19 p3110 N84-29763
Research on the crystal growth and dielectric properties of high permittivity ferroelectric materials
[AD-A142125] 19 p3111 N84-29767
NEURGAONKAR, R. R.
Research on ferroelectric materials for millimeter wave application
[AD-A137128] 10 p1588 N84-20405
Ferroelectric tungsten bronze bulk crystals and epitaxial thin films for electro-optic device applications
[AD-A138693] 13 p2046 N84-23278
Temperature-compensated piezoelectric materials
[AD-A139279] 14 p2242 N84-24460
NEUSWANGER, C. P.
The effects of weather on rapid runway repair, volume 2
[AD-A130350] 01 p0016 N84-10105
NEVERS, T.
A nonlinear model of laminated plate, using combined variables 16 p2476 N84-25875
NEVESELY, M.
Acoustic surface wave applications 18 p2918 N84-28503
NEVILLE, R. A.
Remote sensing using the airborne MEIS 2 multidetector electro optical imaging scanner 03 p0397 N84-12592
NEVINS, J. L.
Feedback in robotics for assembly and manufacturing
[PB84-177112] 17 p2675 N84-27044
NEVRZIVA, M.
Noncubic magnetic anisotropy in YSmLuCaFeGe garnet films 20 p3287 N84-30869
NEVZGLYADOVA, O. V.
Obtaining yeast vector marked by mutation of multiple antibiotic resistance 23 p3806 N84-34133
NEW, L. S.
Bearing tester data compilation, analysis and reporting and bearing math modeling, volume 1
[NASA-CR-171039] 15 p2340 N84-25046
NEWBERGER, B. S.
Filamentation instability associated with a relativistic beam and a finite-temperature, collisional plasma
[DE84-002303] 05 p0750 N84-14928
NEWBERGER, P. A.
The rapid sampling vertical profiler MILDEX, October-November 1983
[AD-A140965] 18 p2892 N84-28356
WAZP observations during MILDEX October-November 1983
[AD-A141048] 18 p2893 N84-28358
NEWBORN, H.
Materials research for advanced inertial instrumentation. Task 2: Gas bearing material development
[AD-A140435] 16 p2446 N84-25690
Materials research for advanced inertial instrumentation. Task 3: Rare earth magnetic material technology as related to gyro torquers and motors
[AD-A140611] 17 p2762 N84-27542
NEWBY, K.
Development of a circulating zinc-bromine battery, phase 2
[DE84-001886] 04 p0527 N84-13463
NEWCOMB, C.
Performance of passive solar and energy conserving houses in California
[SERI/STR-254-2017] 23 p3790 N84-34039
Documentation of data processing procedures and extension of Class B data analysis
[SERI/STR-254-2085] 23 p3815 N84-34189
NEWCOMB, D. E.
Development of criteria for the use of asphalt-rubber as a Stress-Absorbing Membrane Interlayer (SAMI)
[AD-A137412] 10 p1471 N84-19608
NEWCOMB, M.
Macrocycles containing tin. Syntheses of symmetrical macrocycles containing 2 or 4 diphenylstanna units
[AD-A133697] 05 p0659 N84-14329
Macrocycles containing tin. Synthesis and structure of 1,10-Diphenyl-1,10-Distannabicycle (8.8.8)Hexacosane
[AD-A142703] 20 p3145 N84-29966
NEWCOME, B. H.
A modular twin bus microprocessor system for laboratory automation
[AD-A133372] 06 p0896 N84-15815
NEWELL, A. C.
Transverse solitary waves in a dispersive ring bistability cavity containing a saturable nonlinearity 14 p2240 N84-24446
NEWKIRK, H.
Characterization by X-ray topography of laser-induced damage in potassium dihydrogen phosphate crystals
[DE83-012045] 03 p0454 N84-12985
NEWKIRK, J.
Research in VLSI systems. Heuristic programming project and VLSI theory project. A fast turn around facility for very large scale integration (VLSI)
[AD-A134809] 08 p1151 N84-17494
NEWLEY, R. A.
The cyclic behaviour of a powder Ni-base superalloy
[PNR-90182] 13 p1961 N84-22743
NEWMAN, B. A.
High pressure melting and crystallization of Nylon-11
[AD-A138858] 13 p1964 N84-22760
The effect of plasticizer on the polarizer of Poly(vinylidene fluoride) films
[AD-A140770] 17 p2626 N84-26806
Piezoelectric properties and ferroelectric hysteresis effects in unaxially stretched Nylon-11 films
[AD-A140683] 17 p2768 N84-27575
NEWMAN, B. E.
Proceedings of a Symposium on Laser Induced Damage in Optical Materials: 1981
[PB84-127869] 09 p1324 N84-18649
First operation of the Los Angeles free-electron laser oscillator
[DE84-006024] 11 p1664 N84-20856
NEWMAN, B. K.
Stirling engine patents: International patent inventory
[DE84-002378] 04 p0545 N84-13592
NEWMAN, D.
Proceedings of the Conference on Joint Problem Solving and Microcomputers
[AD-A135001] 08 p1211 N84-17901
NEWMAN, E. H.
A user's manual for Electromagnetic Surface Patch (ESP) code. Version 2: Polygonal plates and wires
[AD-A135837] 09 p1300 N84-18497
Microstrip analysis techniques
[AD-A137972] 12 p1811 N84-21804
NEWMAN, E. M.
Study and design of a cylindrical lens array antenna for wideband electronic scanning
[AD-A138808] 13 p1983 N84-22875
NEWMAN, F. M.
Thickener/fluid interaction in lubricating greases
[AD-A142276] 20 p3161 N84-30076
NEWMAN, G. H.
Rail accelerator development for ultra-high pressure research
[DE84-002452] 07 p0960 N84-16223
NEWMAN, H. J.
Dual rotating shaft seal apparatus
[DE84-011101] 20 p3197 N84-30307
NEWMAN, H. S.
Analysis of the performance of the free electron bolometer
[AD-A134139] 07 p1008 N84-16533
NEWMAN, J.
Fundamental mathematical principles for electrochemical engineering
[DE84-002181] 08 p1221 N84-17975
Transport properties of concentrated solutions
[DE84-008495] 20 p3181 N84-30210
A pioneer deep ocean mining venture
[PB84-199645] 21 p3433 N84-31780
General energy balance for battery systems
[DE84-013235] 22 p3589 N84-32731

NEWMAN, J. A.
Thin film synthesis of superconducting chemical compounds
[AD-A142541] 20 p3148 N84-29992
NEWMAN, J. C., JR.
The Dugdale model for the compact specimen
[NASA-TM-85714] 03 p0388 N84-12529
Prediction of fatigue crack-growth patterns and lives in three-dimensional cracked bodies
[NASA-TM-85787] 13 p2000 N84-22979
Stress-intensity factor equations for cracks in three-dimensional finite bodies subjected to tension and bending loads
[NASA-TM-85793] 14 p2157 N84-23925
Three-dimensional finite-element analysis of chevron-notched fracture specimens
[NASA-TM-85798] 19 p3035 N84-29249
Methods for analysis of cracks in three-dimensional solids
[NASA-TM-86266] 20 p3201 N84-30330
A review of chevron-notched fracture specimens
[NASA-TM-85797] 23 p3760 N84-33834
NEWMAN, J. L.
Optical adaptive filter. Frequency domain implementation
[AD-A141090] 19 p3104 N84-29718
NEWMAN, J. S.
Noise levels and data analyses for small prop-driven aircraft
[AD-A134598] 07 p0952 N84-16175
Noise measurement flight test: Data/Analyses Bell 222 twin jet helicopter
[AD-A139906] 15 p2404 N84-25430
Noise measurement flight test: Data-analyses Aerospatiale SA-365N Dauphin 2 helicopter
[AD-A143229] 22 p3652 N84-33151
NEWMAN, L.
The development and implementation of techniques to determine the concentrations of environmental pollutants arising from energy production
[DE83-015386] 02 p0244 N84-11599
Atomospheric studies pertaining to sulfur in the environment
[DE84-001455] 05 p0701 N84-14597
NEWMAN, M.
Stability analysis for difference schemes, problems in applied linear algebra, and application of number theory to computing
[AD-A133654] 05 p0735 N84-14825
Development of hydrocyclones for aluminum/air battery applications
[DE84-011403] 20 p3179 N84-30197
NEWMAN, P. A.
Aerodynamic design of the contoured wind-tunnel liner for the NASA supercritical, laminar-flow-control, swept-wing experiment
[NASA-TP-2335] 23 p3688 N84-33377
NEWMAN, P. E.
German-English technical glossary
[DE84-007978] 15 p2418 N84-25521
NEWMAN, R. C.
Electrochemical kinetics in stress-corrosion cracks
[DE84-002855] 07 p0976 N84-16323
Anodic processes and the kinetics of stress-corrosion cracking or corrosion fatigue
[DE84-012911] 21 p3368 N84-31367
NEWMAN, T. G.
Review of research under the Joint Services Electronics Program
[AD-A141458] 19 p3013 N84-29100
NEWMAN, W.
A 10 deg K triple-expansion Stirling-cycle cryocooler 06 p0819 N84-15336
NEWNAM, B. E.
High-efficiency free-electron-laser experiments
[DE83-015218] 02 p0227 N84-11487
The Los Alamos free-electron-laser oscillator experiment: Plans and present status
[DE83-017290] 03 p0382 N84-12485
Laser Induced Damage in Optical Materials: 1982
[PB84-175124] 16 p2498 N84-26025
Capabilities of broadly-tunable free-electron lasers
[DE84-009998] 19 p3030 N84-29219
The XUV/VUV free-electron laser oscillator
[DE84-011347] 20 p3193 N84-30279
NEWNHAM, R. E.
Targeted basic studies of ferroelectric and ferroelastic materials for piezoelectric transducer applications
[AD-A132136] 04 p0526 N84-13461
Targeted basic studies of ferroelectric and ferroelastic materials for piezoelectric transducer applications
[AD-A132262] 04 p0612 N84-14043
Safety eye protection through use of fast acting optical switching
[AD-A138582] 13 p2023 N84-23120
NEWRICK, P. F.
An investigation into the nature and control of vortex flow round helicopter upsweep
[BU-285] 15 p2255 N84-24544
NEWSOM, J. R.
The use of singular value gradients and optimization techniques to design robust controllers for multiloop systems
[NASA-TM-85720] 02 p0277 N84-11815
Tools for active control system design 11 p1617 N84-20582
Experiences with the design and implementation of flutter suppression systems 11 p1619 N84-20593
STABCAR: A program for finding characteristic root systems having transcendental stability matrices
[NASA-TP-2165] 17 p2751 N84-27461
Active controls: A look at analytical methods and associated tools
[NASA-TM-86269] 21 p3419 N84-31684
NEWTON, A. G.
Fuel efficient engines for large transport
[PNR-90196] 13 p1934 N84-22580
NEWTON, A. R.
Research in computer simulation of integrated circuits
[AD-A141855] 19 p3013 N84-29101
NEWTON, H. J.
Repeated-measures analysis of image data 03 p0393 N84-12567
NEWTON, L. A.
Cerenkov radiation generated by periodic electron bunches in a finite air path
[AD-A142063] 19 p3101 N84-29700
NEWTON, L. E.
Design of a safety monitor system for high explosives machining
[DE84-010101] 20 p3168 N84-30113
NEWTON, M. C.
AFOS (Automation of Field Operations and Services)-era forecast verification
[PB84-129303] 10 p1541 N84-20098
NEWTON, R. E.
Use of the tensor product for numerical weather prediction by the finite element method, part 1
[AD-A143273] 22 p3625 N84-32970
Use of the tensor product for numerical weather prediction by the finite element method, part 2
[AD-A144064] 23 p3802 N84-34108
NEWTON, R. W.
A microwave systems approach to measuring root zone soil moisture
[E84-10114] 13 p2005 N84-23007
Estimating net rainfall, evaporation and water storage of a bare soil from sequential L-band emissivities 23 p3769 N84-33889
NEXSEN, W. E.
Initial assessment of the MHD stability of TMX-U
[DE83-016521] 03 p0404 N84-12646
Vacuum measurements on the tandem mirror experiment upgrade (TMX-U) fusion experiment
[DE83-017836] 03 p0448 N84-12946
NEYE, W.
Hearing loss associated with helicopter flight 16 p2537 N84-26285
NEYER, B.
A multi-GHz multi-channel photonic analog data processing system
[DE84-012281] 21 p3499 N84-32175
NEYMARK, Y. I.
Treatment of walking as controllable self-excited oscillations 17 p2649 N84-26942
NEYNABER, R. H.
Low-energy collisions excited atoms
[AD-A144192] 24 p3961 N84-35087
NG, E.
Solution of sparse underdetermined systems of linear equations
[DE83-016460] 02 p0283 N84-11853
NG, F. W.
Ada and the NASA software environment 05 p0724 N84-14749
NG, K. C.
Accurate computation of divided differences of the exponential function
[AD-A130306] 01 p0132 N84-10865
Contributions to the computation of the matrix exponential, revision
[AD-A140069] 15 p2398 N84-25392
NG, K. S.
An experimental study of heat and momentum transfer in pipe flow of viscoelastic fluids 01 p0076 N84-10497
NG, L. C.
Optimum multisensor, multitarget localization and tracking
[AD-A129805] 01 p0139 N84-10914
NG, T. T.
The influence of combustion on Reynolds stress in a strongly heated turbulent boundary layer
[DE83-015524] 02 p0220 N84-11444
NGAI, K. L.
Relaxation in spin glasses: Similarities and differences from ordinary glasses
[DE84-001719] 04 p0508 N84-13330
An entropy maximum principle and instantaneous failure statistics
[AD-A143299] 22 p3607 N84-32851
An entropy maximum principle and relaxation phenomena
[AD-A143531] 22 p3668 N84-33250
NGOC, T. D. K.
Ultrasonic reflection from solid halfspaces and from solid plates
[AD-A129886] 01 p0140 N84-10916
Characterization and scattering of bounded ultrasonic beams
[AD-A136491] 12 p1899 N84-22369
NGUYEN, B. C.
Mechanisms of catalytic oxidation of hydrocarbons in a solid-electrolyte fuel cell 11 p1742 N84-21366
NGUYEN, H. P.
Orbital propulsion module system configuration study. Volume 1: Executive summary
[S/DT/YA-25-030-VOL-1] 08 p1120 N84-17282
NGUYEN, K.
Nonuniqueness and stability of the configuration of flow of immiscible fluids with different viscosities
[AD-P002937] 14 p2196 N84-24177
NGUYEN, L. T.
Pilot human factors in stall/spin accidents of supersonic fighter aircraft 06 p0779 N84-15102
Wind-tunnel free-flight investigation of a model of a forward-swept-wing fighter configuration
[NASA-TP-2230] 08 p1105 N84-17184
NGUYEN, N. Q.
Matrix-dominated time-dependent deformation and damage of graphite epoxy composite -- experimental data under multiple-step relaxation
[AD-A141697] 19 p2986 N84-28920
NGUYEN, N. Z.
Matrix-dominated time-dependent deformation and damage of graphite/epoxy composite experimental data under creep and recovery
[AD-A139064] 13 p1954 N84-22704
NGUYEN, T. D.
Thermo-mechanical and thermal behavior of high-temperature structural materials
[AD-A140520] 16 p2461 N84-25775
NGUYEN, T. T.
Optical propagation and communication 22 p3683 N84-33355
NGUYEN, V. H.
Hydrotreating of coal derived liquids
[BMFT-FB-T-83-175] 07 p0973 N84-16304
NI, K. I.
The research and fabrication of electronic materials and the establishment of characterization center of electronic materials 24 p3958 N84-35063
NIAN-ZU, D.
Periodicities in the occurrence of aurora as indicators of solar variability 03 p0470 N84-13093
NIBLACK, W.
Interpretation of combined LANDSAT-Heat Capacity Mapping Mission (HCMM) data for geological analysis. Evaluation of scale effect on interpretation of a multisource image 23 p3769 N84-33894
NICAISE, P. D.
Space station attitude control system concept and requirements 03 p0344 N84-12234
NICELY, D. J.
The operator mapping between relational algebra operators and CODASYL based databases managed by a CODASYL DBMS
[AD-A138117] 12 p1918 N84-22497
NICHOL, D. G.
Optical processing, its role in surveillance 24 p3915 N84-34788
NICHOLAS, G. L.
An improved MSK generator diagnostic unit
[AD-A140568] 17 p2672 N84-27028
NICHOLAS, M. G.
Some effects of anisotropic roughening on the wetting of metal surfaces
[AERE-R-10976] 01 p0047 N84-10305
A study of aluminium brazes using hot stage scanning electron microscopy
[AERE-R-11063] 18 p2850 N84-28097
NICHOLAS, S.
A new silicon-on-sapphire MIL-STD-1750A microprocessor
[AD-P003551] 21 p3334 N84-31155

NICHOLL, R. A.
An approach to control the evolution of software systems 13 p2025 N84-23127
NICHOLLS, J. A.
Shock tube study of the ignition and combustion of aluminum
[AD-A134035] 05 p0661 N84-14345
Structure and characteristics of heterogeneous detonation
[AD-A134492] 07 p1002 N84-16497
NICHOLS, A.
A SAR for real-time ice reconaissance 23 p3765 N84-33869
NICHOLS, B.
Flame fronts with complex chemical networks
[DE84-001175] 04 p0496 N84-13255
NICHOLS, B. D.
Momentum-control volumes for finite-difference codes
[DE83-007566] 02 p0282 N84-11849
NICHOLS, C. D.
Investigation of fast initialization of spacecraft bubble memory systems
[NASA-TM-85832] 18 p2832 N84-27977
NICHOLS, D. K.
A comparison of radiation damage in liner ICs from cobalt-60 gamma rays and 2.2-MeV electrons
[NASA-CR-173474] 12 p1901 N84-22380
A guideline for heavy ion radiation testing for Single Event Upset (SEU)
[NASA-CR-173731] 18 p2929 N84-28576
NICHOLS, F. A.
Evaluation of stainless steel pipe cracking: Causes and fixes
[DE84-003459] 09 p1285 N84-18391
NICHOLS, J. T.
Active material redistribution rates in zinc electrodes: Effect of alkaline electrolyte compositions having reduced zinc oxide solubility
[DE84-010709] 21 p3392 N84-31525
NICHOLS, N. K.
Numerical methods for stiff two-point boundary value problems
[AD-A136427] 09 p1375 N84-18981
NICHOLS, R. G.
The creation of a central database on a microcomputer network
[AD-A143875] 23 p3835 N84-34326
NICHOLS, R. H.
Transonic nozzle-afterbody flow field measurements using a laser Doppler velocimeter 14 p2098 N84-23592
NICHOLS, R. L.
Effects of solar radiation on glasses 15 p2279 N84-24685
Materials testing of the IUS techroll seal material
[NASA-TM-86462] 22 p3604 N84-32829
NICHOLSON, A. N.
Sleep and wakefulness handbook for flight medical officers
[AGARD-AG-270(FR)] 06 p0891 N84-15788
Adaptation to irregularity of rest and activity 11 p1697 N84-21070
Hypnotics and air operations 11 p1697 N84-21072
Human factors of air operations in the South Atlantic campaign 11 p1699 N84-21080
NICHOLSON, D. R.
Soliton collapse during ionospheric heating
[DE84-009994] 20 p3241 N84-30576
Theoretical aspects of mirror fusion
[DE84-009139] 20 p3305 N84-30988
NICHOLSON, D. W.
Stable response of damped linear systems 10 p1507 N84-19861
NICHOLSON, F. H.
A general field theory for vortex structure and interaction
[AD-A134146] 07 p1033 N84-16705
Cloud bands structure of Hurricane David, 1979: A case study
[AD-A144529] 24 p3934 N84-34904
NICHOLSON, J.
Empirical studies of upper atmospheric species
[NASA-CR-172437] 21 p3443 N84-31847
NICHOLSON, M. M.
Mechanisms and kinetics of diphthalocyanine electrode processes
[AD-A131726] 03 p0349 N84-12270
NICHOLSON, R. W.
Circumferential cracks in cylindrical shells 16 p2501 N84-26050
NICHOLSON, W.
Research topics in statistical database management
[DE84-002581] 06 p0935 N84-16080
NICK, J. B.
Evaluating and quantifying user perception of pavement serviceability
[PB83-207308] 01 p0058 N84-10375
NICKEL, H.
Investigation of inhomogeneity in ceramic reactor materials using laser-localized emission spectroscopy
[JUEL-1834] 03 p0357 N84-12323
Constitutive equations for the creep behavior of nickel-base alloys for High Temperature Reactor (HTR) components in the temperature range 1023-1273 K
[JUEL-1843] 05 p0657 N84-14318
Carbide precipitation in nickel-base model alloys and its influence on ductility and fracture behavior at room temperature
[JUEL-1845] 05 p0657 N84-14319
Contribution ot the high temperature deformation behavior of the austenitic steel 1.4961 after neutron irradiation
[JUEL-1904] 23 p3720 N84-33584
NICKEL, K.
Solution of a minimum problem in aircraft wing theory
[AD-A131070] 02 p0174 N84-11147
NICKEL, K. L. E.
Minimal drag for wings with prescribed lift, roll moment and yaw moment
[AD-A134572] 07 p0948 N84-16152
Using interval methods for the numerical solution of ODE'S (Ordinary Differential Equations)
[AD-A136373] 09 p1374 N84-18972
NICKEL, K. N.
Lessons learned from the development and manufacture of ceramic reusable surface insulation materials for the space shuttle orbiters 01 p0025 N84-10158
NICKERSON, G. R.
Improved Two-Dimensional Kinetics (TDK) computer program
[NASA-CR-170922] 03 p0346 N84-12248
NICKLES, R. J.
Bone blood flow measured by (41)Ar clearance formed by (44)Ca(n,(-)) (41)Ar
[DE83-017600] 06 p0886 N84-15761
NICKLING, G.
Testing of the box transformer 10/04.4 kV in the network of the electricity supply company
[BMFT-FB-T-83-165] 07 p1000 N84-16483
NICKLOW, R. M.
Phonon dispersion of transverse basal-plane modes in alkali-graphite compounds
[DE83-003910] 03 p0350 N84-12273
NICKOLAS, G. T.
Paperless solicitation and contracting
[AD-P002749] 13 p2050 N84-23296
Readiness planning in a peacetime environment
[AD-P002803] 13 p2058 N84-23349
NICKOLS, J. W.
Phototransformation of polycyclic aromatic hydrocarbons into stable, mutagenic components
[DE84-001747] 07 p0966 N84-16261
NICKS, C. O.
A comparison of experimental and theoretical results for leakage, pressure distribution, and rotordynamic coefficients for annular gas seals
[NASA-CR-174000] 24 p3910 N84-34765
NICKUM, J. D.
Enhanced character sizes for the VDM-1 video display board 02 p0168 N84-11101
Weather data communication and utilization 03 p0313 N84-12045
NICOGOSSIAN, A. E.
Human capabilities in space
[NASA-TM-87360] 23 p3811 N84-34165
NICOL, A. T.
Nuclear moment alignment, relaxation and detection mechanisms
[AD-A131546] 02 p0223 N84-11464
NICOL, M. F.
High pressure cosmochemistry applied to major planetary interiors: Experimental studies
[NASA-CR-173278] 08 p1245 N84-18138
NICOL, M. R.
An approach to a standardized simulator data base
[AD-P003469] 21 p3511 N84-32244
NICOLA, V. F.
Markovian models of a transactional system supported by checkpointing and recovery strategies. Part 1: A model with state-dependent parameters
[EUT-82-E-128-PT-1] 10 p1566 N84-20260
Markovian models of a transactional system supported by checkpointing and recovery strategies. Part 2: AA model with a specified number of transactions between checkpoints
[EUT-82-E-129-PT-2] 10 p1566 N84-20261
A single server queue with mixed types of interruptions: Application to the modeling of checkpointing and recovery in a transactional system
[EUT-83-E-138] 10 p1574 N84-20315
NICOLAENKO, B.
Remarks on the Kuramoto-Sivashinsky equation
[DE84-001018] 04 p0590 N84-13901
NICOLAI, R. J.
Verification and validation of Infrared Astronomical Satellite (IRAS) on-board software 05 p0725 N84-14757
NICOLAIDES, R. A.
The numerical solution of incompressible Navier-Stokes equations
[AD-A136158] 09 p1316 N84-18597
NICOLET, M.
On molecular scattering in the terrestrial atmosphere: An empirical formula for its calculation in the homosphere
[AERONOMICA-ACTA-A-284-1984] 20 p3239 N84-30564
NICOLET, M. A.
Proceedings of the Workshop on Ion Mixing and Surface Layer Alloying
[AD-A131469] 02 p0289 N84-11895
Proceedings of the Workshop on Ion Mixing and Surface Layer Alloying
[DE83-015354] 03 p0455 N84-12994
X-ray and backscattering analysis of ion implantation phenomena in GaAs and related compounds
[AD-A132429] 04 p0612 N84-14038
Diffusion barriers 12 p1839 N84-21987
NICOLET, W. E.
Assessment of real gas effects on the prediction of the aerodynamics of high velocity Army shells
[AD-A134739] 08 p1099 N84-17150
NICOLETIS, L.
Modeling of elastic wave propagation by finite difference and finite element methods 23 p3777 N84-33944
NICOLINO, T.
Advanced application of the printed circuit board testability design and rating system
[AD-A141147] 18 p2834 N84-27989
NICOLIS, C.
Self-oscillations and predictability in climate dynamics
[AERONOMICA-ACTA-A-278-1984] 16 p2527 N84-26226
NICOLSON, G. D.
Arcsecond positions for milliarcsecond VLBI nuclei of extragalactic radio sources, part 2: 207 sources 16 p2478 N84-25890
NIEBAUER, T. M.
The JILA (Joint Institute for Laboratory Astrophysics) portable absolute gravity apparatus
[AD-A132199] 05 p0684 N84-14495
NIEDBAL, N.
The experimental/analytical determination of the real normal mode parameters of a structure with limited accessibility
[DFVLR-FB-83-26] 09 p1334 N84-18711
NIEDENZU, K.
Studies on B-(Pyrazol-1'-yl)pyrazaboles
[AD-A141115] 19 p2998 N84-28997
The bromination of pyrazabole
[AD-A144264] 24 p3880 N84-34581
NIEDENZU, P. M.
Studies on B-(Pyrazol-1'-yl)pyrazaboles
[AD-A141115] 19 p2998 N84-28997
NIEDER, R. L.
Space shuttle orbiter venting: Lessons learned 01 p0020 N84-10126
NIEDERDELLMANN, G.
Hydrolysis of plastic wastes with the aim of recovering and reprocessing the starting components (recycling)
[BMFT-FB-T-83-199] 08 p1126 N84-17322
NIEDERDRENK, P.
Artificial mass concept and transonic viscous flow equation
[AD-P002946] 14 p2198 N84-24186
NIEDERHAEUSER, P.
Moisture resistant MoS2-based composite lubricant films 09 p1296 N84-18468
NIEDNER, M. B., JR.
Interaction of the plasma tail of comet Bradfield 1979L on 1980 February 6 with a possibly flare-generated solar-wind disturbance 03 p0475 N84-13126
Interaction of the plasma tail of comet Bradfield 1979L on 1980 February 6 with a possibly flare-generated solar-wind disturbance
[NASA-TM-85617] 17 p2777 N84-27632
NIEDRINGHAUS, W. P.
Automated en route air traffic control algorithmic specifications. Volume 3: Flight plan conflict probe
[AD-A136795] 10 p1425 N84-19319

Automated en route air traffic control algorithmic specifications. Volume 4: Sector workload probe
[AD-A136796] 10 p1425 N84-19320
NIEDSTADT, R. M.
Electron Cyclotron Emission (ECE) measurements on the TORTUR 3 Tokamak
[REPT-83-148] 13 p2045 N84-23274
NIEDZIELSKI, M. E.
The use of interactive graphics processing in short-range terminal weather forecasting: An initial assessment
[AD-A137165] 11 p1687 N84-21004
NIEL, M.
Two probable optical flashes from gamma-ray bursters
[NASA-TM-86126] 21 p3526 N84-32337
Three precise gamma-ray burst source locations
[NASA-TM-86132] 22 p3680 N84-33332
NIELL, A.
Results of the Australian geodetic VLBI experiment 04 p0520 N84-13416
NIELSEN, A.
Introductory studies of natural contamination and manmade pollution in Danish waters 03 p0399 N84-12608
NIELSEN, F.
Proceedings of the 4th LAN-Transport Workshop
[PB84-138825] 11 p1705 N84-21116
NIELSEN, G. D.
An assessment of selected Army technical manuals
[AD-A132680] 05 p0654 N84-14302
NIELSEN, J. N.
Aerodynamic characteristics of missile controls 01 p0014 N84-10092
Triservice program for extending missile aerodynamic data base and prediction program using rational modeling
[AD-A132455] 04 p0481 N84-13166
Determination of optimum fin planform and airfoil section for minimizing fin hinge moment
[AD-A134523] 07 p0948 N84-16151
Studies and vorticity effects by the Euler equations with emphasis on supersonic flow fields
[AD-A135118] 08 p1157 N84-17F35
Preliminary method for estimating hinge moments of all-movable controls
[AD-A139726] 15 p2264 N84-24597
NIELSEN, K. F.
Growth of crystals from solutions in low gravity (A0139A) 15 p2270 N84-24634
NIELSEN, P.
Electromagnetic shielding of full-sized structures by metal arc spraying
[AD-A132883] 05 p0663 N84-14357
NIELSEN, R. J.
TRISTEN/FRAM IV arctic ambient noise measurements
[AD-A140656] 17 p2763 N84-27549
Automatic shock calibration of accelerometers
[AD-A141005] 18 p2844 N84-28061
NIELSEN, U.
Electric-dipole moment of CaF by molecular-beam, laser-RF, double-resonance study of Stark splittings
[DE84-005413] 15 p2405 N84-25439
NIEMCZYK, T. M.
Studies of an inductively coupled plasma with a Fourier-transform spectrometer
[DE83-014194] 01 p0151 N84-10991
NIEMI, E. E., JR.
Reattachment of a three-dimensional, incompressible jet to an adjacent axisymmetric inclined surface
[AD-A136288] 09 p1314 N84-18584
NIEMIROWICZ, K.
Transactions of the Industrial Institute of Electronics (selected articles)
[AD-A137204] 10 p1485 N84-19711
NIENHUIS, A.
On the design of an editor for the B programming language
[MC-IW-248/83] 17 p2754 N84-27484
NIERO, M.
Urban land use of the Sao Paulo metropolitan area by automatic analysis of LANDSAT data
[E84-10069] 07 p1020 N84-16616
Application of LANDSAT data to the study of urban development in Brasilia
[E84-10142] 16 p2507 N84-26090
The use of an image registration technique in the urban growth monitoring
[E84-10147] 16 p2508 N84-26095
NIEROW, A.
A comparison of NMC models (1977) on precipitation forecasts for east coast cyclogenesis 06 p0879 N84-15720
NIESSL, R.
Technology of thin silicon foils in respect to the fabrication of monolithic integrated sensors
[BMFT-FB-T-83-089] 02 p0206 N84-11347
NIETO, M. M.
Physics at the proposed National Underground Science Facility
[DE84-001345] 04 p0488 N84-13203
NIETUBICZ, C. J.
Numerical computation of base flow for a projectile at transonic speeds
[AD-A130293] 01 p0004 N84-10027
Navier-Stokes computational study of the influence of shell geometry on the Magnus effect at supersonic speeds
[AD-A130630] 01 p0079 N84-10516
A theoretical and experimental investigation of a transonic projectile flow field
[AD-A131936] 03 p0320 N84-12094
Computations of projectile magnus effect at transonic velocities
[AD-A133212] 06 p0783 N84-15127
Navier-Stokes computations of projectile base flow at transonic speeds with and without base injection
[AD-A135783] 09 p1252 N84-18176
NIEUWENHUIZEN, W.
Fibrinogen, plasminogen and tissue-type plasminogen activator: Their role in the fibinolytic system 23 p3804 N84-34121
NIEUWENHUYS, G. J.
Muon spin relaxation in ferromagnetic PdMn
[DE83-012659] 03 p0453 N84-12979
NIEUWESTADT, F. T. M.
Dispersion experiments with sulfur hexafluoride from the 213m high meteorological mast at Cabauw in the Netherlands 08 p1183 N84-17706
NIEUWHOF, B. J.
Longitudinal waterblocking performance of conductive and non-conductive waterswellable nonwovens 11 p1721 N84-21225
NIEUWPOORT, A. M. H.
Determination of performance and stability characteristics from dynamic manoeuvres with a transport aircraft using parameter identification techniques 24 p3847 N84-34400
NIEVA, V. F.
Computer-automated technological innovation in three manufacturing sectors
[AD-P003309] 18 p2909 N84-28450
NIEVERGELT, J.
Algorithms and file structures for computational geometry
[AD-A144381] 24 p3951 N84-35018
NIGAM, S.
On the structure and forcing of tropospheric stationary waves 16 p2527 N84-26225
NIGHTINGALE, N.
Automotive Stirling engine development program
[NASA-CR-168205] 08 p1242 N84-18117
Automotive Stirling engine development program
[NASA-CR-174622] 21 p3521 N84-32305
NIGRO, L.
A 2-phase flow model for the diffused cavitation study
[CISE-2109] 07 p1004 N84-16514
NIILER, A.
Self-propagating high-temperature synthesis of ceramics in vacuum
[AD-A142506] 20 p3162 N84-30079
NIILER, P. P.
CTD transect of the Kuroshio Extension 27-42 deg N, 152 deg E
[AD-A131329] 01 p0111 N84-10721
NIINO, M.
A study of liquid hydrogen cooled LO2/LH2 rocket combustor with channel wall construction
[NAL-TR-767] 16 p2459 N84-25763
NIIRO, Y.
Design and test results of optical fiber units for optical submarine cable 11 p1723 N84-21243
NIKHT, L.
Improvements noted in patent information system for CEMA member-countries 01 p0158 N84-11038
NIKIFOROV, Y. D.
Influence of nitrogen-hydrogen-containing media on heat resistance properties of nickel-based alloys 24 p3877 N84-34570
NIKIFOROVA, A. V.
Mutual solubility and properties of polyolefins and polyisoprene mixtures
[CSIR-TRANS-1647] 01 p0029 N84-10185
NIKISHIN, Y. F.
Influence of natural exposure in space on physical-mechanical properties of carbon reinforced plastic 24 p3872 N84-34536
NIKITIN, N. V.
Alignment of multistate laser amplifiers with periodic space filtration of beam 21 p3381 N84-31452
NIKITIN, S. A.
International space organizations 09 p1265 N84-18261
NIKITIN, V. A.
Electron-microscopic microstructural examination of glassy Ge-Se semiconductors 20 p3287 N84-30871
NIKITIN, V. G.
High-speed thyristors on weakly doped GaAs 22 p3568 N84-32600
NIKITIN, Y. I.
Metabolic disturbances in man in an environment with low ammonia level and their correction by graded physical exercise 07 p1045 N84-16780
NIKKEL, D. J., JR.
Calculations for uniaxial stress and strain cycling in plasticity
[AD-A135800] 09 p1332 N84-18698
NIKKOLA, A.
Weld quality monitoring system
[VTT-RR-263] 19 p3033 N84-29240
NIKODEM, L. F.
Frictional hold of various sheave configurations on synthetic ropes
[AD-A139808] 15 p2343 N84-25067
NIKOLAIDES, C.
A study of the coherent structures in the viscous wall region of a turbulent flow
[AD-A137875] 11 p1652 N84-20788
NIKOLAS, G. T.
Training requirements for changing times
[AD-P002764] 13 p2052 N84-23311
NIKOLAYENKO, E. M.
Respiratory tract closing volume and structure of total lung capacity during seven-day hypokinesia in head-down position 07 p1045 N84-16778
NIKOLAYENKO, L. M.
Diffuse auroral zone. Part 7: Dynamics of equatorial boundary in field of diffuse electron spill in evening sector 19 p2973 N84-28846
NIKOLAYENKO, M. R.
Laser impulse drilling machine discussed 24 p3891 N84-34641
NIKOLAYEV, A. G.
Cosmonaut training 09 p1264 N84-18250
NIKOLAYEV, V. P.
Demonstration of gas bubbles in canine pulmonary artery and aorta by means of ultrasonic echography with intravenous air infusion 02 p0261 N84-11706
Ultrasonography of canine soft tissues during decompression 20 p3254 N84-30653
NIKOLAYEV, Y. V.
New types of transient processes observed in electromagnetic sounding 18 p2860 N84-28164
NIKOLAYEVA, I. P.
Immediate effects of hyperbaric oxygenation on body oxygen supply 21 p3455 N84-31923
NIKOLAYEVA, L. A.
Change in spectrum of blood hormones under influence of centimeter range microwaves 17 p2742 N84-27412
NIKOLIC, V. R.
An investigation of new possibilities to simplify the standard supersonic area rule
[AD-A137018] 10 p1422 N84-19297
NIKOLSKII, V. N.
Influence of vibration grinding on the properties of tungsten powders and the quality of sintered pieces
[BLL-M-35373] 08 p1140 N84-17414
NIKOLSKIY, G. M.
PIRAMIG and PGN experiments 09 p1263 N84-18249
NIKONOROV, N. V.
Newly discovered effect of interaction of optical radiation and glass 21 p3482 N84-32069
NIKONOVA, F. I.
Interpreting three-dimensional gravitational and magnetic anomalies 20 p3224 N84-30486
NIKONOVA, K. V.
New trends in standardization of electromagnetic microwave radiation 07 p1044 N84-16767
NIKONOVA, V. A.
Allomonades: New group of vibrionaceae family microorganisms 17 p2742 N84-27410
NIKOONAHAD, M.
Reflection acoustic microscopy for Micro-NDE
[AD-A136321] 09 p1327 N84-18665
NIKOWITSCH, P. P.
Multiprofile-streak technique
[MBB-UA-776-83-O] 16 p2564 N84-26447
NIKU-LARI, A.
Stress corrosion resistance of Z 6 CN 18-9 steel: Influence of surface treatment (shot peening, polishing)
[BLL-RISLEY-TR-4777-(9091.9F)] 01 p0041 N84-10265
The hole drilling method for residual stress distribution measurement
[CETIM-100730] 21 p3424 N84-31720

NILAND, R. A.
A 2-D skin-current toroidal-MHD-equilibrium code
[DE83-016916] 03 p0446 N84-12929
NILMEN, F.
Maintenance free lead acid battery with high cycle life and a new type of grid
[BMFT-FB-T-83-156] 05 p0677 N84-14453
NILSEN, P. W.
Engineering evaluations and studies. Volume 1: Exhibit A
[NASA-CR-171724] 06 p0794 N84-15174
Engineering evaluations and studies. Volume 2: Exhibit B, part 1
[NASA-CR-171725] 06 p0794 N84-15175
Engineering evaluations and studies. Volume 2: Exhibit B, part 2
[NASA-CR-171726] 06 p0794 N84-15176
Engineering evaluations and studies. Volume 3: Exhibit C
[NASA-CR-171727] 06 p0794 N84-15177
NILSON, R. H.
Transient gas flow along single or bundled electrical cables surrounded by a permeable medium
[DE84-004791] 10 p1494 N84-19772
NILSON, T. A.
Seasonal variation of spectral brightness coefficients for barley and rye 19 p2977 N84-28872
NILSSON, B.
Informatics 1983: Signal processing
[FOA-A-30033-E] 15 p2321 N84-24932
NILSSON, F.
Theoretical evaluation of the structural performance of Swedish fighter aircraft windshields subjected to bird impact
[AD-P003235] 17 p2597 N84-26648
NILSSON, G.
Statistical lineament analysis in South Greenland based on LANDSAT imagery 23 p3770 N84-33901
NILSSON, H.
Immobilization of biomolecules on semiconductor surfaces
[FOA-C-40178-C2(B2,A3)] 06 p0831 N84-15408
Method for evaluation of petroleum products corrosivity using piezoelectric crystals, part 1
[FOA-C-40189-B4-PT-1] 23 p3726 N84-33611
NILSSON, S.
Comparative antenna measurements in real environment: Steerable null antenna at 30 - 76 MHz
[FOA-C-30303-E2] 08 p1146 N84-17459
NILSSON, W.
Vibrational energy transfer at a surface in reacting systems. Decomposition of azomethane
[AD-A137966] 12 p1901 N84-22381
NING, H.
JDF-1 small light-weight electric eddy current oscillator
[AD-A137572] 11 p1646 N84-20761
NING, T.
Dynamic, hierarchical decision problems
[AD-P002912] 13 p1981 N84-22863
NINOMIYA, T.
Synthesis of axion systems for the three-valued predicate logic by means of the special four-valued logic
[AD-P002358] 14 p2193 N84-24149
NIPPRESS, K. R.
Calibration of air-data systems and flow direction sensors. AGARD Flight Test Techniques Series, volume 1
[AGARD-AG-300-VOL-1] 06 p0848 N84-15530
NIR, Z.
Fire-retardant decorative inks for aircraft interiors
[NASA-TM-85876] 10 p1451 N84-19475
NIREI, S.
Comparison of the cloud top heights evaluated from GMS infrared image with the heights reported by air-line pilots, part 2 09 p1346 N84-18797
NISENOFF, M.
US Navy program in small cryocoolers 06 p0818 N84-15328
NISHI, K.
Fine pointing control of the solar UV telescope on the sounding rocket S-520-5
[ISAS-608] 06 p0938 N84-16094
NISHIDA, M.
Freejets of rotationally relaxing diatomic gases 20 p3169 N84-30119
NISHIDA, O.
Stress corrosion cracking of austenitic stainless steels in sea water: An investigation of test methods
[BLL-RISLEY-TRANS-4568-(9091.9)] 22 p3551 N84-32478
NISHIDA, Y.
Dynamically accelerated superthermal electrons in microwave plasma interaction
[IPPJ-648] 10 p1580 N84-20354
NISHIHARA, H. K.
PRISM: A practical real-time imaging stereo matcher
[AD-A142532] 20 p3259 N84-30686
NISHIHARA, K.
Diagnostics and simulation in G-XII implosion experiments 11 p1735 N84-21316
Atomic processes for modeling of inertial confinement fusion plasma 11 p1735 N84-21317
NISHIKAWA, K.
Critical heat flux in forced convection boiling of Freon in a tube at high subcritical pressure: In the case of vapor-liquid mixture at inlet 07 p0984 N84-16373
NISHIMARU, Y.
Physiological function of combustion gas and especially that of CN 04 p0514 N84-13376
NISHIMOTO, T. S.
A deployable structure and solar array controls experiment for STEP 08 p1111 N84-17227
NISHIMURA, M.
Performance characteristics of VAD single mode fibers in mass production basis 11 p1725 N84-21254
NISHIMURA, N.
Effect of inertia on finite near-tip deformation for fast Mode-3 crack growth
[AD-A142947] 21 p3422 N84-31706
NISHINO, N.
Spectroscopy in heliotron E 11 p1735 N84-21320
NISHIOKA, T.
Path-independent integrals in dynamic fracture mechanics
[AD-P003111] 16 p2468 N84-25816
NISHIWAKI, H.
Suppression of peak noise by reshaping coaxial flow circumferentially under static conditions
[NAL-TR-770] 09 p1386 N84-19053
NISHIZAWA, A.
ICRF heating experiments on JIPP T-II
[IPPJ-650] 10 p1580 N84-20352
Electron capture cross sections in high energy He2+ + neutral Li collisions
[IPPJ-679] 21 p3500 N84-32182
NISHT, M. I.
Separation flow past bodies with fixed separation sites 13 p1970 N84-22784
Mathematical modeling of transient separation flow around circular cylinder 17 p2644 N84-26916
NISITANI, H.
Fatigue damage of an annealed 0.45 percent C steel under fully-reversed tension-compression cycling 07 p0983 N84-16367
Fatigue process of hard steels 07 p0983 N84-16368
NISKANEN, J.
Observations of short period magnetic pulsations during the SBARMO-79 campaign: Data summary
[REPT-90/1982] 13 p2012 N84-23052
Quick-look tables of continuous pulsations (Pc1) and Intervals of Pulsations of Diminishing Periods (IPDP) magnetic pulsation events recorded in Finland during IMS years 1976-1979: Data summary
[REPT-92/1982] 13 p2012 N84-23053
NISSEN, J. C. D.
Ada-Europe guidelines for the portability of Ada programs, second edition
[NPL-DITC-27/83] 03 p0419 N84-12739
NISWANDER, J. K.
Memory-based parallel data output controller
[NASA-CASE-GSC-12447-2] 18 p2916 N84-28491
NITHACK, H.
Oil spill detection with DFVLR X-band SLAR 23 p3781 N84-33973
NITSCHKE, F.
Investigation on the oxide layer of aluminium with respect to adhesive bonding
[MBB-BB-530-82-OE] 02 p0202 N84-11315
NITSCHKE, P.
Experimental investigation of the turbulent flow in smooth and longitudinal grooved tubes
[MPIS-3/1983] 07 p1004 N84-16510
NITTA, K.
Strapdown inertial guidance system: Onboard software and its evaluation
[NAL-TR-775] 09 p1254 N84-18184
NITZAN, D.
Machine intelligence research applied to industrial automation
[PB84-123348] 10 p1473 N84-19618
NITZSCHE, F.
Aeroelastic analysis of a Darrieus type wind turbine blade with troposkien geometry 06 p0863 N84-15623
NIU, K.
Rotating and propagating LIB stabilized by self-induced magnetic field
[IPPJ-640] 03 p0444 N84-12916
NIU, T. M.
Biaxial fatigue of graphite/epoxy + or - 45 sub s tubes 06 p0799 N84-15210
NIV, M.
Optimal performance in a step motor controlled robot 23 p3735 N84-33664
NIVEN, H.
Residual shale-oil/diesel-engine operating compatibility program
[DE84-000133] 04 p0545 N84-13587
NIWA, S.
Measurements of microwave backscattering signatures of the ocean surface using X-band and Ka-band airborne scatterometer/radiometer system 23 p3771 N84-33907
NIX, R. G.
Thermochemical energy systems research
[DE83-012132] 03 p0404 N84-12644
NIX, R. P.
Editing by example 22 p3639 N84-33070
NIX, W. D.
An investigation of the structure and high temperature mechanical properties of oxide dispersion strengthened alloys
[AD-A139359] 14 p2128 N84-23756
NIXDORF, J.
A contribution to the manufacture and characteristics of steel-wire-reinforced aluminum
[NASA-TM-76977] 07 p0974 N84-16310
NIXON, C. W.
Voice communication and positive pressure breathing in noise
[AD-A141303] 18 p2830 N84-27965
NIXON, D.
Research on topics in perturbation methods, transonic flow theory, numerical analysis and adaptive grid generation
[AD-A143641] 23 p3833 N84-34315
NIXON, J. V.
Cardiac chamber volumes by echocardiography using a new mathematical method: A promising technique for zero-G use 09 p1358 N84-18874
NIXON, S. R.
Commercialization of opportunities for materials processing in low gravity
[NASA-CR-170953] 06 p0793 N84-15165
NIZHENSKIY, A. D.
Phase light range finder 21 p3380 N84-31447
NIZUMOTO, M.
Fuzzy reasoning under new compositional rules of inference
[AD-P002364] 14 p2194 N84-24155
NJOKU, E. G.
Satellite-Derived Sea Surface Temperature: Workshop 1
[NASA-CR-173450] 12 p1834 N84-21955
Satellite-derived sea surface temperature: Introduction 12 p1834 N84-21956
Satellite data 12 p1835 N84-21960
Satellite-Derived Sea Surface Temperature: Workshop-2
[NASA-CR-173740] 18 p2892 N84-28355
NNAJI, B. O.
Computer-aided design of robots 17 p2674 N84-27037
NNAJI, S.
Use of digitized radar and microcomputers to forecast local floods and irrigation needs
[PB84-105568] 08 p1192 N84-17767
NOAKES, D. R.
General cases of the pseudoquadrupole interaction in (169)T-m
[DE83-015685] 07 p1082 N84-17040
Crystal fields and second order magnetic hyperfine interactions in TmFe2Si2
[DE84-003622] 08 p1236 N84-18078
NOBACK, R.
Review and comparison of discrete and continuous gust methods for the determination of airplane design loads
[NLR-TR-82134-U] 20 p3132 N84-29886
NOBELIS, P.
Statistical classification of IUE stellar spectra by the Variable Procrustean Bed (VPB) approach 24 p3975 N84-35178
NOBLE, B.
Application of symbolic computation to the analysis of mechanical systems, including robot arms
[AD-P002940] 14 p2197 N84-24180
NOBLE, D. C.
Chemical evolution of a high-level magma system: The Black Mountain Volcanic Center, Southern Nevada
[DE84-013321] 20 p3243 N84-30587
NOBLE, J. V.
New horizons in electromagnetic physics
[DE84-002600] 08 p1230 N84-18039

NOBLE, M. A.
Shelf circulation studies on the northeastern United States Continental Shelf 23 p3803 N84-34111
NOBLE, M. L.
Acousto-Optic Adaptive Processing (AOAP) [AD-A141445] 19 p3100 N84-29689
NOBLE, R. J.
Plasma beat-wave accelerator [DE84-001601] 05 p0750 N84-14925
NOBLET, Y.
Creep of six glues [CETIM-1.3N.16.2] 21 p3372 N84-31398
NOBRE, C. A.
Tropical heat sources and their associated large-scale atmospheric circulation [INPE-2727-TDL/133] 07 p1032 N84-16697
The Amazon and climate [NASA-CR-173408] 12 p1860 N84-22115
NOBRE, D. D. N.
Combustion instability: Measurement of acoustic admittance in solid propellant [INPE-2789-NTE/201] 07 p0980 N84-16352
NOBRE, P.
Large scale tropical heat sources and global atmospheric energy propagation associated with droughts in Northeast Brazil [INPE-3227-PRE/578] 24 p3918 N84-34806
NOCEDAL, J.
Evaluation of step directions in optimization algorithms [DE84-006044] 11 p1716 N84-21194
NOCHUMSON, D. H.
Assessment of fuel cell propulsion systems [DE84-006323] 15 p2420 N84-25536
NOCI, G.
Spectroscopic measurements of solar wind generation 03 p0466 N84-13071
NODA, N.
ICRF heating experiments on JIPP T-II [IPPJ-650] 10 p1580 N84-20352
Atomic and molecular processes in discharge cleaning plasmas 11 p1736 N84-21322
Start-up and quasi-stationary drive of plasma current by lower hybrid wave in the JPII T-IIU Tokamak [IPPJ-667] 15 p2409 N84-25461
Impurity origin during ICRF heating in JIPP T-IIU Tokamak [IPPJ-682] 23 p3827 N84-34271
Visible-light imaging MHD studies of the edge plasma in the JIPP-T-IIU Tokamak [IPPJ-683] 23 p3827 N84-34272
NODA, S.
Study on small scale model tests for reinforced concrete structures- small scale model tests by using 3mm diameter deformed re-bars [PB83-224832] 01 p0059 N84-10390
NODULMAN, L.
Muons and electrons in general 06 p0914 N84-15938
NOECKER, D. J.
Quality-assurance tests of five Y-12 Kevlar-49 spools used to fabricate strands and reliability specimens for stress-rupture tests [DE84-012373] 21 p3357 N84-31295
NOEL, B. W.
Using photoconductivity to improve image-tube gating speeds [DE84-001732] 05 p0676 N84-14443
Nanosecond image-shuttering studies at Los Alamos National Laboratory [DE84-001733] 06 p0830 N84-15405
Remote thermometry of moving surfaces by laser-induced fluorescence of surface-bonded phosphor [DE84-004264] 10 p1498 N84-19792
NOEL, G. T.
A comparative evaluation of new low-cost array field designs for grid-connected photovoltaic systems [DE84-010978] 21 p3435 N84-31797
Source circuit design considerations 22 p3583 N84-32690
NOEL, M. J.
King's Trough Flank: Geological and geophysical investigations of its suitability for high-level radioactive waste disposal [IOS-166] 20 p3299 N84-30950
NOETH, H.
The bromination of pyrazabole [AD-A144264] 24 p3880 N84-34581
NOF, D.
Research in oceanography [AD-A139890] 15 p2373 N84-25237
NOGAR, N. S.
Selective laser ionization for mass-spectral isotopic analysis [DE83-017303] 03 p0381 N84-12483
Resonance ionization mass spectroscopy at Los Alamos National Laboratory [DE84-001705] 07 p0972 N84-16297
NOGUCHI, H.
Nonlinear dynamics in excitable nerve membranes 21 p3477 N84-32037
NOGUCHI, K.
Zero gravity experiment of superfluid helium [ISAS-604] 07 p0960 N84-16225
NOGUCHI, S.
On applications of a specification and description language NESDEL to communication protocols 22 p3563 N84-32567
An automatic syntheses of hardware algorithm 22 p3563 N84-32568
NOGUCHI, Y.
In-plane shear properties of a fabric-CFRP/aluminum-honeycomb sandwich construction [NAL-TR-773] 09 p1275 N84-18327
NOGUES, C.
Use of primate model in weightlessness bone physiology: General problems 23 p3809 N84-34154
Use of primate model in weightlessness bone physiology. Histological approach after iliac crest biopsy 23 p3809 N84-34155
NOHEL, J. A.
A singular free boundary problem [AD-A136325] 09 p1373 N84-18967
Global existence and asymptotics in one-dimensional nonlinear viscoelasticity [AD-A136367] 09 p1374 N84-18970
The cauchy problem in one-dimensional nonlinear viscoelasticity [AD-A141507] 19 p3084 N84-29576
NOICE, D. C.
A clocking discipline for two-phase digital integrated circuits 05 p0677 N84-14455
NOLA, F. J.
Flywheel electronics 03 p0345 N84-12239
Control system for an induction motor with energy recovery [NASA-CASE-MFS-25477-1] 05 p0673 N84-14424
Pulsed thyristor trigger control circuit [NASA-CASE-MFS-25616-1] 07 p0996 N84-16455
Three phase power factor controller [NASA-CASE-MFS-25535-2] 13 p1985 N84-22885
Motor power control circuit for ac induction motors [NASA-CASE-MFS-25323-1] 13 p1985 N84-22886
Phase detector for three-phase power factor controller [NASA-CASE-MFS-25854-1] 18 p2832 N84-27975
Bi-directional control system for energy flow in a solar powered flywheel [NASA-CASE-MFS-25978-1] 22 p3616 N84-32913
Coupling an induction motor type generator to ac power lines [NASA-CASE-MFS-25302-2] 23 p3734 N84-33660
Three-phase power factor controller with induced EMF sensing [NASA-CASE-MFS-25852-1] 23 p3734 N84-33661
NOLD, J.
The toxicity of petroleum and shale JP5 [AD-A142670] 20 p3260 N84-30690
NOLL, B. E.
Development of temperature-, velocity- and concentration-profiles in a curved combustor 15 p2292 N84-24757
NOLL, C. E.
Use of DBMS in multi-step information systems for LANDSAT 11 p1749 N84-21417
Pilot climate data system: User's guide for charts subsystem [NASA-TM-86151] 24 p3945 N84-34975
NOLL, G.
Production of cubic crystalline boron nitride [BMFT-FB-T-84-025] 16 p2471 N84-25836
NOLL, R.
Radiation and particle emission from a 1.6 kJ plasma focus 10 p1581 N84-20362
Dynamics of microstructures 10 p1583 N84-20376
Observation of nonlinear phenomena 10 p1584 N84-20385
NOLL, T. E.
Active suppression of aeroelastic instabilities for forward swept wings 16 p2438 N84-25638
Active suppression of aeroelastic instabilities for forward swept wings [AD-A141739] 19 p2964 N84-28783
NOLTE, J.
Distributed database control and allocation. Volume 1: Frameworks for understanding concurrency control and recovery algorithms [AD-A138891] 14 p2203 N84-24223
Distributed database control and allocation. Volume 2: Performance analysis of concurrency control algorithms [AD-A138892] 14 p2203 N84-24224
Distributed database control and allocation. Volume 3: Distributed database system designer's handbook [AD-A138893] 14 p2203 N84-24225
NOLTING, E.
Compressed air production with waste heat utilization in industry 23 p3727 N84-33619
NOMA, E. J.
Centroid scaling of citation data: Charting the history of a scientific specialty, plate tectonics 01 p0104 N84-10673
NOMI, K.
Fluorescent discharge lamp [NASA-TM-77456] 10 p1485 N84-19706
NOMOTO, T.
Welding deformations and residual stresses due to circumferential welding of cylindrical shells and hemispherical end plates [DRIC-T-6968] 04 p0547 N84-13602
Welding deformations and residual stresses due to circumferential welding of cylindrical shells and hemispherical end plates [BLL-DRIC-T-6968-(3623.66)] 06 p0851 N84-15548
NOMURA, E.
Ionic conductivity in lithium hexaoxometallate solid solutions [AD-A131842] 03 p0346 N84-12250
Ionic conductivity of Li7BiO6 [AD-A135386] 08 p1124 N84-17307
Ionic conductivity in lithium hexaoxometallate solid solutions 11 p1744 N84-21379
NOMURA, J. K.
Experimental investigation of elastic mode control on a model of a transport aircraft [NASA-CR-3472] 18 p2792 N84-27721
NOMURA, S.
A method for aerodynamic and aerothermodynamic conceptual design of capsule type reentry vehicle [NAL-TR-779] 09 p1272 N84-18309
Plasticity of laminated composites 15 p2308 N84-24849
NONAKA, S.
Influence of unbalanced three-phase current on characteristics of high-speed LIM 07 p0983 N84-16365
Brushless self-excited type three-phase synchronous motor driven by GTO inverter 07 p0983 N84-16366
NONAKA, T.
Evaluation of service lubricants and metals correlation of bench tests with engines [AD-A143971] 23 p3718 N84-33569
NONCLERCQ, B.
Manufacture cables with low losses 11 p1725 N84-21256
NOON, E. L.
NASA scatterometer research data processing system: Requirements and design 23 p3781 N84-33979
NOONAN, J. P.
Terrain variables improve modeling of Richardson numbers less than unity in the lower atmosphere [AD-A137926] 11 p1671 N84-20906
NOONAN, K. W.
Family of airfoil shapes for rotating blades [NASA-CASE-LAR-12843-1] 02 p0173 N84-11136
Two-dimensional aerodynamic characteristics of an airfoil designed for two [NASA-TP-1965] 18 p2788 N84-27694
Two-dimensional aerodynamic characteristics of three rotorcraft airfoils at Mach numbers from 0.35 to 0.90 [NASA-TP-2000] 19 p2957 N84-28743
NOONKESTER, V. R.
Optical extinction coefficients beneath marine stratus clouds. Comparison of coefficients calculated from observed aerosol spectra with coefficients specified by the Navy aerosol model [AD-A132011] 03 p0410 N84-12685
NOOR, A. K.
Hybrid perturbation/Bubnov-Galerkin technique for nonlinear thermal analysis [NASA-TP-2145] 13 p1988 N84-22907
Mixed models and recugion techniques for large-rotation, nonlinear analysis of shells of revolution with application to tires [NASA-TP-2343] 24 p3912 N84-34773
NORA, C.
Engineering programming at the Ecole Nationale Superieure des Telecommunications (ENST): Particularities and tendencies [ENST-C-83004] 15 p2390 N84-25338
NORBERG, T.
Random capacities and their distributions [CTH-MATH-1984-03] 19 p3094 N84-29649
NORBURY, J. R.
A system to measure LOS atmospheric transmittance at 19 GHz 15 p2324 N84-24951

NORBURY, J. W.
An abrasion-ablation model description of galactic heavy-ion fragmentation
[NASA-TP-2305] 12 p1903 N84-22396
NORCIO, A. F.
Accuracy of software development activity data: The software cost reduction project
[AD-A137639] 11 p1706 N84-21122
NORDEMANN, D. J. R.
Efficiency of wood as a passive shielding for particles and photons of 0.5 to 4.6 MeV between 940 and 377 mb
[INPE-2864-PRE/399] 02 p0288 N84-11891
Basic elements of nuclear geophysics
[INPE-3002-PRE/452] 17 p2726 N84-27350
Microcomputer and mythology: Procrustean assignments
[INPE-3012-PRE/455] 17 p2749 N84-27449
Where and how variables are structured in the ZX81/TS1000/ TK82C/CP200 memory
[INPE-3014-PRE/457] 17 p2749 N84-27450
Bringing together various programs and data packets in the ZX81/TS1000/TK82C/CP200 memory
[INPE-3013-PRE/456] 17 p2752 N84-27466
NORDHAUS, W. D.
CO2 forecasting and control: A mathematical approach
[DE84-013454] 21 p3449 N84-31882
NORDLUND, A.
Interaction of convection and small-scale magnetic fields: Influence on the solar luminosity
17 p2779 N84-27642
NORDMAN, J. E.
Wideband monolithic microwave amplifier study
[AD-A136424] 09 p1318 N84-18608
NORDSTROM, T. V.
Radiation testing of the CMOS 8085 microprocessor family
[DE83-014604] 02 p0271 N84-11771
NOREEN, T. R.
Application of the finite compartment model of carbon adsorption to binary systems
[AD-A141483] 19 p2988 N84-28932
NOREM, J.
Proposed second harmonic acceleration system for the intense pulsed neutron source rapid cycling synchrotron
[DE84-003601] 08 p1230 N84-18036
Preliminary tests of a second harmonic RF system for the intense pulsed neutron source synchrotron
[DE84-003595] 08 p1230 N84-18041
NORGAARD, G.
Optimizing coagulation-adsorption for haloform and TOC (Total Organic Carbon) reduction
[PB83-210757] 01 p0058 N84-10378
NORGREN, C. T.
Ceramic composite liner material for gas turbine combustors
[NASA-TM-83490] 05 p0631 N84-14145
NORING, J. E.
High temperature oxide electrolytes for the splitting of water. The ROC process 11 p1740 N84-21351
High temperature oxide electrolytes for the splitting of water--the ROC process
[AD-A140881] 17 p2620 N84-26765
NORMAN, D. A.
Representation in memory
[AD-A130662] 01 p0117 N84-10757
User centered system design
[AD-A136131] 09 p1364 N84-18907
Software engineering for user interfaces
[AD-A138937] 13 p2029 N84-23155
NORMAN, E. B.
Cross sections relevant to gamma-ray astronomy: Alpha-particle-induced reactions
[DE83-015533] 03 p0461 N84-13038
The 182-Hf: A new short-lived r-process chronometer
[DE83-015698] 05 p0764 N84-15009
Hf-182: A new stopwatch for the early solar system
[DE83-011486] 07 p1090 N84-17088
Identification of gamma-ray lines observed from SS433
[DE84-013829] 22 p3681 N84-33335
NORMAN, J. M.
Bidirectional reflectance modeling of non-homogeneous plant canopies 12 p1830 N84-21932
NORMAN, K.
Evaluating multiple coordinated windows for programming workstations 13 p2027 N84-23146
NORMATOV, A. T.
Biofeedback regulation of pulmonary ventilation
18 p2897 N84-28378
NORRIS-JONES, S. R.
Evaluation of unthrottled combustion system options for light duty applications with future syncrude derived fuels
[DE83-017047] 03 p0358 N84-12327
NORRIS, G.
The microcomputer knowledge base: Introduction and user instructions
[AD-A137694] 11 p1704 N84-21108
NORRIS, J. P.
Frequency of fast, narrow gamma-ray bursts and burst classification 09 p1407 N84-19190
A study of the temporal and spectral characteristics of gamma ray bursts 22 p3680 N84-33331
NORRIS, M.
Geomorphic clues to the Martian volatile inventory. 1: Flow ejecta blankets 13 p2079 N84-23474
NORRIS, O. R.
First operation of the Los Angeles free-electron laser oscillator
[DE84-006024] 11 p1664 N84-20856
NORTH, G. R.
Modeling glacial climates
[NASA-TM-86106] 15 p2371 N84-25221
NORTH, R. A.
Development of speech input/output interfaces for tactical aircraft
[AD-A136485] 09 p1255 N84-18193
NORTH, R. J.
The European Transonic Windtunnel (ETW)
14 p2094 N84-23566
NORTHEAST, E.
USERSIN: An interactive user-interface for FORTRAN SIN
[MRL-R-877] 05 p0721 N84-14728
NORTON, C.
Applications of the AVE-Sesame data sets to mesoscale studies 24 p3931 N84-34886
NORTON, D. J.
Space Shuttle ice suppression system validation, volume 1
[NASA-CR-171740] 08 p1114 N84-17244
Space Shuttle ice suppression system validation, volume 2
[NASA-CR-171741] 08 p1114 N84-17245
Space Shuttle ice suppression system validation, volume 3
[NASA-CR-171742] 08 p1114 N84-17246
NORTON, K. K.
Land use planning for sources of nonionizing electromagnetic radiation
[PB84-156363] 17 p2771 N84-27594
NORTON, M. G.
A survey of contractor productivity measurement practices
[AD-P002831] 13 p2063 N84-23376
NORTON, P. R.
The structure and behavior of vacuum plasma sprayed overlay coatings on nickel based superalloys
[AD-A132631] 05 p0654 N84-14301
NORUM, T. D.
Effects of simulated flight on the structure and noise of underexpanded jets
[NASA-TP-2308] 15 p2403 N84-25422
NORVELL, S.
Network design tool for EHF satellite communications networks
[AD-A131812] 03 p0361 N84-12349
NORWOOD, D. L.
ICAM (Integrated Computer Aided Manufacturing) conceptual design for computer-integrated manufacturing. Volume 4, part 5, task D: Quality assurance/quality, control/technical requirement/tasks, quality assurance modeling and analysis, architecture for product assurance, (TTD)
[AD-A144691] 24 p3948 N84-34999
NORWOOD, V.
Lightning mapping sensor study
[NASA-CR-170908] 04 p0566 N84-13731
NOSKOV, A. S.
Rules governing the distribution of a gas jet in a liquid. Communication 2
[BLL-M-35437-(5828.4)] 08 p1154 N84-17513
NOSOCHENKO, O. V.
The effect of technological parameters on the heterogeneity of continuously cast slab
[BLL-M-35095-(5828.4)] 01 p0042 N84-10271
NOSOVA, I. M.
Dynamics of changes in metabolic and endocrine processes in helicopter crews during commercial flights
15 p2375 N84-25254
NOSS, C. I.
Evaluation of alkaline chemical addition and organic loading schemes for enhancement of secondary treatment and ancillary nutrient removal
[AD-A141178] 18 p2677 N84-28270
NOSS, R. S.
Alternative labelling schemes in electromagnetic topology
[AD-A144300] 24 p3954 N84-35037
NOTERDAEME, J. M.
A model for stresses in circular magnets for toroidal fusion devices
[DE83-016535] 03 p0447 N84-12937
Constraints on the scale of toroidal-fusion experiments with application to the design of a helical-axis stellarator
[DE83-016812] 03 p0449 N84-12950
NOTKIN, A. B.
Fluctuations in chemical composition of titanium alloy Beta-solid solution in preseparation stage
12 p1786 N84-21650
NOTON, M.
A filtered attitude determination system for spacecraft measurement and control 15 p2267 N84-24612
NOTTARP, K.
The importance of radio interferometry for geodynamics 08 p1173 N84-17644
NOUAILLES, J.
Problems presented to engine builders by the recycling of metallic materials 23 p3704 N84-33482
NOUFI, R.
CdS/CuInSe2 heterojunction cell research
[DE84-004508] 22 p3618 N84-32926
NOUHI, A.
Surface acoustic wave/silicon monolithic sensor/processor
[NASA-CR-174541] 01 p0056 N84-10368
NOUN, R. J.
Protecting wind access: A preliminary assessment
[DE83-011970] 16 p2528 N84-26227
NOUR-OMID, B.
The use of refined error bound when updating eigenvalues of tridiagonals
[AD-A134163] 07 p1061 N84-16879
Dynamic analysis of structures using Lanczos coordinates
[AD-A136387] 09 p1331 N84-18690
Solution techniques in finite element analysis
[AD-A139552] 14 p2158 N84-23931
Banded preconditioning for the solution of symmetric positive definite linear systems
[AD-A140097] 15 p2399 N84-25394
NOVACKI, S. M., III
Enhanced character sizes for the VDM-1 video display board 02 p0168 N84-11101
NOVAES, R. A.
Irrigated rice area estimation using remote sensing techniques: Project's proposal and preliminary results
[E84-10131] 16 p2506 N84-26081
Identification and estimation of the area planted with irrigated rice based on the visual interpretation of LANDSAT MSS data
[E84-10164] 17 p2710 N84-27256
A report of Ceara Project activities
[INPE-2988-RPE/452] 17 p2711 N84-27260
NOVAK, G. S., JR.
Cognitive processes and knowledge structures used in solving physics problems
[PB83-225177] 01 p0157 N84-11033
NOVAK, K. M.
The effects of relaxing automobile emission standards: A generic analysis and an urban case study
[DE84-000193] 04 p0560 N84-13693
NOVAK, L. M.
On the estimation of spectral parameters using burst waveforms
[AD-A137932] 11 p1644 N84-20746
NOVAK, L. V.
Pilot climate data system: A state-of-the-art capability in scientific data management
[NASA-TM-85115] 06 p0881 N84-15731
NOVAK, T.
Electrical-shock prevention. Volume 1: Protection of maintenance personnel
[PB84-102946] 08 p1206 N84-17865
NOVAKOSKIY, S. V.
Method of flicker suppression in television image
17 p2632 N84-26838
NOVAKOV, T.
Aethalometer: An instrument for the real-time measurement of optical absorption by aerosol particles
[DE84-000400] 04 p0538 N84-13538
Raman study of graphitic-carbon concentrations in the Western Arctic
[DE84-001090] 05 p0700 N84-14596
Atmospheric aerosol research for FY 82
[DE84-004308] 11 p1676 N84-20937
NOVEMBER, L. J.
The Sacramento Peak fast microphotometer
18 p2841 N84-28040
NOVICHKOVA, A. T.
Resistance of microorganisms from mesosphere to periodic freezing-thawing 22 p3630 N84-33001
NOVICK, L. R.
Applique rate converter
[AD-D011161] 23 p3751 N84-33777

NOVICK, R.
A search for X-ray polarization in cosmic X-ray sources
[NASA-CR-173635] 17 p2781 N84-27657
NOVIKOV, A. V.
Theoretical and experimental determination of stress-strain of high-pressure equipment
[BLL-M-35287-(5828.4)] 06 p0856 N84-15574
Numerical investigation of stress-strain state of composite working tool assembled with negative allowance
[BLL-M-35379] 09 p1328 N84-18672
NOVIKOV, N. N.
Injection currents in GaAs triple crystals
18 p2825 N84-27937
NOVIKOV, N. V.
Effect of structural factors on the crack resistance of tungsten carbide/cobalt alloys at high temperatures
[CSIR-1682] 01 p0042 N84-10269
Strength of hard alloy elements of high pressure apparatus for synthesis of superhard materials
12 p1785 N84-21647
Fracture toughness of crystalline and composite superhard materials 24 p3868 N84-34516
NOVIKOV, V. I.
Adaptive multibeam antenna array
21 p3377 N84-31430
NOVIKOV, V. S.
Changes in the T and B systems of immunity in seamen during a long cruise 08 p1199 N84-17819
NOVIKOV, V. Y.
Ultrasound distribution and bone calcium content in experimental animals submitted to hypokinesia and weightlessness 20 p3254 N84-30652
NOVITSKIY, V. G.
Problems in the development of high-power turbogenerators with superconducting field windings
[AD-A136525] 09 p1325 N84-18657
NOVO, E. M. L. M.
The effects of solar incidence angle over digital processing of LANDSAT data
[E84-10007] 01 p0099 N84-10641
Application of remote sensing to hydrological problems and floods
[E84-10046] 04 p0553 N84-13639
Evaluation of the effects of the seasonal variation of solar elevation angle and azimuth on the processes of digital filtering and thematic classification of relief units
[E84-10121] 14 p2167 N84-23980
Evaluation of solar angle variation over digital processing of LANDSAT imagery
[E84-10140] 16 p2507 N84-26088
NOVOSELTSEV, V. N.
Engineering physiology: New area for use of control theory 20 p3257 N84-30676
NOVOTNY, A.
Development of silicon nitride gas turbine components, phase 2
[BMFT-FB-T-83-322] 15 p2262 N84-24591
NOVOZHILOV, G. I.
Effect of the microclimate on the night sleep and physical fitness of seamen during a cruise in the low latitudes
08 p1198 N84-17813
NOVOZHILOV, G. V.
Ilyushin design bureau achievements profiled
14 p2093 N84-23554
NOVOZHILOV, I. V.
Control of quadriaxial cardan suspension
17 p2643 N84-26911
NOVOZHILOV, N. M.
Certain metallurgical properties of laser welding
23 p3710 N84-33517
Effect of protective gas composition on seam formation during laser welding 24 p3870 N84-34524
NOWACK, C. J.
Fuel property effects on USN gas turbine combustors
14 p2107 N84-23636
NOWACKI, L. J.
Improved paint removal technique
[AD-A136671] 10 p1467 N84-19580
NOWAK, D.
EValuation of a 96V EV 1000 battery pack at temperature extremes
[PB84-187723] 20 p3182 N84-30217
Evaluation of 96V exide EPV23-3 battery pack at temperature extremes
[PB84-187749] 20 p3182 N84-30218
Evaluation of an 96V ALCO 2200 battery pack at temperature extremes
[PB84-187731] 20 p3182 N84-30219
The design and testing of an electrolyte destratification system applied to a 96 V Alco 2200 battery
[PB84-184894] 20 p3237 N84-30550
NOWAK, D. M.
Mobility and molecular ions of dimethyl methyl phosphonate, methyl salicylate and acetone
[AD-A140328] 16 p2555 N84-26395
NOWAK, G.
OTS (Office of Toxic Substances) Information Architecture Notebook
[PB84-188655] 21 p3520 N84-32301
NOWAKOWSKI, J.
Communication system studies for the submarine laser communications system
[AD-A135661] 09 p1301 N84-18504
NOWICK, A. S.
Defect interactions at high concentrations in solid oxide electrolytes
[DE83-016849] 03 p0455 N84-12992
Microstructure and microanalysis in relation to the grain boundary conductivity effect in doped ceria
11 p1741 N84-21358
NOWLIN, A.
Integrated Computer-Aided Manufacturing (ICAM) architecture. Part 3, Volume 6: Composite information model of 'Manufacture product' (MFG1)
[AD-A143072] 21 p3466 N84-31973
NOWLIN, D. V.
Identification of bottlenecks and capacity constraints in F-14, F-15, F-16, and F/A-18 aircraft production
[AD-A134629] 08 p1095 N84-17121
NOWOSAD, P.
The mathematical structure of elementary particles
[AD-A136295] 09 p1387 N84-19060
NOWOTNY, H.
Investigation of role of subsurface zones in wear of materials
[DE84-012752] 21 p3368 N84-31365
NOYAN, I. C.
The measurement of elastic constants for the determination of stresses by X-rays
[AD-A132330] 04 p0590 N84-13897
Determining stresses in the presence of nonlinearities in interplanar spacing versus Sin squared Psi
[AD-A132365] 04 p0612 N84-14041
NOYES, H. P.
Covariant theory with a confined quantum
[DE83-014897] 03 p0435 N84-12850
Toward a constructive physics
[DE83-016644] 04 p0594 N84-13919
Program for a constructive physics
[DE84-005425] 12 p1916 N84-22486
NOYES, R.
An extended range pendulous velocity gage
[AD-P002683] 11 p1658 N84-20820
Extended-range pendulous velocity gage
[DE83-012749] 12 p1819 N84-21856
NOYES, R. W.
Combined ultraviolet studies of astronomical sources
[NASA-CR-175234] 08 p1242 N84-18121
NOZDRACHEV, M. N.
Electron acceleration in the front of intense collisionless shock waves
[PR-813] 08 p1154 N84-17511
NUBILE, P.
Comparative measurement of capacitance in solar cells for space and terrestrial applications
17 p2662 N84-26984
NUC, M.
A new method of analysis of composite structures
[SNIAS-832-210-105] 16 p2461 N84-25773
NUCKOLS, M. I.
Development of passive diver thermal protection system
[AD-A130685] 01 p0117 N84-10762
NUCKOLS, M. L.
Design guidelines for carbon dioxide scrubbers
[AD-A130459] 01 p0117 N84-10761
NUDD, G. R.
Concurrent VLSI architectures for two dimensional signal processing systems 09 p1402 N84-19162
Design study of floating point systolic VLSI chip
[AD-A141868] 19 p3013 N84-29102
NUESCH, D. R.
Crop identification of SAR data using digital textural analysis 07 p0988 N84-16404
NUESSER, H. G.
Development possibilities in commercial air transport in the Federal Republic of Germany
10 p1423 N84-19308
NUGENT, J. J.
Non-equilibrium X-ray emission from young supernova remnants 05 p0765 N84-15019
NUGMANOV, A. K.
New variant of evaluation of predicted petroleum and as reserves on genetic basis 17 p2703 N84-27219
NULLMEYER, R. T.
Companion trainer aircraft: Concept test
[AD-A131378] 02 p0268 N84-11757
NULTON, C. P.
Comprehensive assessment of the specific compounds present in combustion processes. Volume 1: Pilot study of combustion emissions variability
[PB84-140870] 11 p1630 N84-20665
NUMAZIRI, T.
Nonlinear dynamics in excitable nerve membranes
21 p3477 N84-32037
NUMMEDAL, D.
Permafrost on Mars: distribution, formation, and geological role 13 p2085 N84-23506
NUNAN, K. C.
Effective viscosity of a periodic suspension
[AD-A140483] 16 p2493 N84-25995
NUNES, K. B.
Identification of quasi-steady compressor characteristics from transient data
[NASA-CR-174685] 24 p3855 N84-34444
NUNEZ, A.
Development of a slotted waveguide array panel for SAR antenna: Electrical design and testing
[IEC-MO-80/11] 23 p3732 N84-33656
NUNIATO, J. W.
Finite-element analysis of an epoxy-curing process
[DE84-000452] 04 p0507 N84-13323
NUNN, E. B.
Atomic absorption spectrophotometric methods for the determination of phosphorous and silicon in steel
[DE84-002826] 09 p1286 N84-18395
NUNNALLY, W. C.
Performance of the perfluorocarbon liquid/plastic film capacitor technology in repetitive discharge pulse power service
[DE83-012502] 01 p0073 N84-10477
Photoconductive power switches
[DE83-015239] 02 p0224 N84-11469
The performance of the perfluorocarbon liquid/plastic-film capacitor technology in pulse-power service. A current status report
[DE83-014606] 03 p0369 N84-12402
Magnetic switches and circuits, revision 2
[DE84-014141] 22 p3588 N84-32725
NUNNELEY, S. A.
A laboratory comparison of portable cooling systems for workers exposed to two levels of heat stress
[AD-A131848] 03 p0372 N84-12423
NUNZ, G. J.
Probabilistic planning and budgeting for R and D programs involving activities of high uncertainty
[DE84-002310] 08 p1238 N84-18093
NUNZIATO, J. W.
Study of Deflagration-to-Detonation Transition (DDT) in the granular explosive, CP
[DE84-009500] 15 p2305 N84-24828
NUR, A.
Effects of microstructure and pore fluids on the acoustic properties of granular materials
[AD-A131983] 03 p0408 N84-12668
NURMIKKO, A. V.
Application of surface magnetoplasmons on semiconductor substrates
[AD-A143767] 23 p3830 N84-34293
NURMINEN, J. I.
A parametric study of surface transformation hardening with high-power lasers
[AD-A140160] 16 p2497 N84-26023
NUSCA, M. J.
Numerical investigation of the aerodynamics and stability of a flared afterbody for axisymmetric projectiles at supersonic speeds
[AD-A136826] 10 p1420 N84-19289
Pressure measurements in a rapidly rotating and coning, highly viscous fluid
[AD-A136824] 10 p1491 N84-19753
NUSS, H. E.
The new space simulation and thermal vacuum facility WSA/TVA 10 p1448 N84-19460
NUSSBAUM, M.
Hybrid space heating/cooling system with Trombe wall, underground venting, and assisted heat pump
[DE84-000406] 04 p0559 N84-13686
NUSSBAUM, N. S.
A survey of biodynamic test devices and methods
[AD-A142467] 20 p3133 N84-29894
NUSSBAUM, P.
Research pressure instrumentation for NASA Space Shuttle main engine, modification no. 5
[NASA-CR-171122] 21 p3404 N84-31594
Research pressure instrumentation for NASA Space Shuttle main engine, modification no. 5
[NASA-CR-173860] 21 p3405 N84-31596
Research pressure instrumentation for NASA Space Shuttle main engine, modification no. 5
[NASA-CR-171125] 22 p3597 N84-32781

Research pressure instrumentation for NASA Space Shuttle main engine, modification no. 5
[NASA-CR-171128] 22 p3622 N84-32949
Research pressure instrumentation for NASA Space Shuttle main engine
[NASA-CR-173932] 23 p3702 N84-33463

NUSSBAUM, P. J.
Prestressed pavement accelerated testing program
[PB83-225763] 01 p0059 N84-10385
Evaluation of innovative concepts relating to prestressed concrete pavements, volume 5
[PB83-222349] 01 p0059 N84-10386

NUSSBAUMER, H.
Two density components in symbiotic stars
24 p3979 N84-35208

NUTT, G.
Time resolved measurement and analysis of the response of confined explosives to heat, impact and penetration
[DE84-002761] 07 p0981 N84-16358

NUTT, K. W.
Space Shuttle external interference heating test
[AD-A131688] 03 p0341 N84-12215

NUTTALL, A. H.
Exact performance of general second-order processors for Gaussian inputs
[AD-A134098] 05 p0733 N84-14816
Optimum filtering required for broadband detection of Gaussian processes
[AD-A133721] 05 p0735 N84-14823
Accurate efficient evaluation of cumulative or exceedance probability distributions directly from characteristic functions
[AD-A133703] 05 p0740 N84-14858

NUTTER, S. T., JR.
NIMBUS observation processing system requirements NG-13. ERB master archival. Tape specification no. T134081 ERB Mst, revision 1
[NASA-TM-85386] 18 p2944 N84-28668

NUZHNYY, V. A.
Noncontradictory method of calculating radiation transfer, and problem of shock wave structure
21 p3481 N84-32060

NWOKOGBA, I. E.
A statistical classification model for a database system 21 p3517 N84-32279

NYAMUSA, T. A.
Improved transistor-controlled and commutated brushless DC motors for electric vehicle propulsion
[NASA-CR-168053] 01 p0069 N84-10450

NYBERG, K.
Twisted sums of nuclear Frechet spaces
04 p0576 N84-13800

NYE, R.
The occultation of AG+29 deg 398 by 98 Minerva
[NASA-CR-173827] 20 p3319 N84-31066

NYFORS, E.
On the dielectric properties of dry snow in the 800 MHz to 13 GHz range
[REPT-S-135] 09 p1337 N84-18733

NYGREN, D. R.
Searching for limitations in capability due to high average rates 06 p0911 N84-15919

NYGREN, S.
Investigation of encryptation for satellite communications
[FOA-C-30300-E1] 08 p1146 N84-17457

NYGREN, T. E.
Investigation of an error theory for conjoint measurement methodology
[AD-A133946] 05 p0734 N84-14818

NYHART, J. D.
A pioneer deep ocean mining venture
[PB84-199645] 21 p3433 N84-31780

NYO, H. L.
The discrete convolution method for solving some large moment matrix equations
[AD-A135420] 08 p1228 N84-18007
Solution of some additional electromagnetic problems by the discrete convolution method
[AD-A143056] 21 p3387 N84-31493

NYQUIST, L. E.
Cosmic ray exposure of SNC meteorites and constraints on their derivation from Mars 11 p1754 N84-21449

NYREN, K.
DARK: A computer based system for simulating the potential hazards from releases of pressurized gases
[FOA-C-40183-C2] 10 p1565 N84-20255

NYSTROM, P. A.
Investigation of effects of microphone position and orientation on near-ground noise measurements
[NASA-TP-2004] 01 p0139 N84-10913

NYUGEN, M.
On-line traffic monitor
[AD-A131356] 02 p0209 N84-11364

O

OAKES, B. R.
Computer aided data acquisition and control of an internal combustion engine
[AD-A144425] 24 p3946 N84-34990

OAKES, J. E.
Translators between CADD and section 5 of the ANSI Y14.26M standard 12 p1871 N84-22192

OAKES, T. W.
Intercomparison of stable-element content of foods by statistical methods
[DE83-014029] 01 p0118 N84-10764

OAKES, W. R., JR.
ESCHER: An interactive mesh-generating editor for preparing finite-element input 12 p1872 N84-22198

OATES, G. C.
Mixing of swirling flows and behavior of wet flows
[AD-A138697] 13 p1989 N84-22915

OBAL, M.
Electronic damping of a large optical bench
10 p1514 N84-19914

OBARA, C. J.
Geometries for roughness shapes in laminar flow
[NASA-CASE-LAR-13255-1] 03 p0320 N84-12092
Natural laminar flow experiments on modern airplane surfaces
[NASA-TP-2256] 17 p2599 N84-26660

OBAYASHI, C.
Properties of bubble domains in cholesteric-nematic mixtures 21 p3477 N84-32039

OBAYASHI, H.
Conceptual design of the RFC reactor
[IPPJ-659] 11 p1733 N84-21304

OBAYASHI, T.
Beam Plasma Discharge (BPD) experiments in the laboratory 05 p0638 N84-14197
Space experiments with particle accelerators (SEPAC). Science problems of SEPAC/Spacelab 1 mission
05 p0641 N84-14221

OBELL, D. R.
MIL-STD-1750A as a spaceborne instruction set architecture
[AD-P003554] 21 p3334 N84-31158

OBENSCHAIN, S. P.
Creation of ultra-high-pressure shocks by the collision of laser-accelerated disks: Experiment and theory
[DE83-017366] 03 p0382 N84-12486
X-ray production in long-scale length laser-plasma interaction experiments
[DE84-002472] 07 p1076 N84-16997
Optical imaging of a coupling region between inter-streaming plasmas
[AD-A139191] 14 p2224 N84-24348
Observation of Rayleigh-Taylor-Like structures in a laser-accelerated foil
[AD-A140294] 16 p2556 N84-26399

OBERHOFER, K. D.
Fatigue crack growth rates of high-magnesium aluminum-magnesium alloys as influenced by solution treatment time and alloy content
[AD-A132928] 05 p0655 N84-14305

OBERKAMPF, W. L.
Numerical solution for a spinning, nutating, fluid-filled cylinder
[DE84-005878] 11 p1654 N84-20799

OBERLE, L. G.
Optimization of fringe-type laser anemometers for turbine engine component testing
[NASA-TM-83658] 15 p2335 N84-25019

OBERMEIER, F.
Aerodynamic sound generation by turbulent boundary layer flow along solid and compliant walls
[MPIS-116/1983] 13 p2040 N84-23239
Some theoretical results on Mach reflection of moderately strong shock waves
[MPIS-14/1983] 17 p2668 N84-27016

OBERNDORF, P. A.
Kernel Ada Programming Support Environment (KAPSE) interface team, public report, volume 3
[AD-A141576] 19 p3077 N84-29523
The KAPSE (Kernel Ada (Trademark) Programming Support Environment) interface team
[AD-P003557] 21 p3335 N84-31161

OBIKI, T.
Spectroscopy in heliotron E 11 p1735 N84-21320

OBLOW, E. M.
Basis research on intelligent robotic systems operating in hostile environments: New developments at ORNL
[DE84-011464] 21 p3414 N84-31647

OBOZNENKO, Y. L.
Investigation of plane phased array of piezoelectric transducers with one-lobe directivity diagram
17 p2639 N84-26883

OBREZKOV, G. V.
Methods of the analysis of the disruption of tracking
[AD-A133335] 06 p0918 N84-15963

OBRIEN, A.
Specification of the transmitted signal of the OMEGA navigation system
[AD-A137673] 11 p1605 N84-20509

OBRIEN, D. E.
Workshops for management of combat stress
[AD-P003283] 18 p2907 N84-28439

OBRIEN, D. W.
Review of the Third Biennial Conference on Real-Time Computer Applications in Nuclear and Particle Physics
[DE84-002457] 20 p3266 N84-30720

OBRIEN, J. E.
National Aeronautics and Space Act of 1958, as amended and related legislation
[GPO-24-491] 03 p0460 N84-13032

OBRIEN, J. J.
Research in oceanography
[AD-A139890] 15 p2373 N84-25237
Aerobic/calisthenic and aerobic/circuit weight training programs for Navy men: A comparative study
[AD-A140971] 18 p2900 N84-28396

OBRIEN, K.
Production of Krypton-81 and Krypton-85 by cosmic rays
[DE84-004439] 09 p1418 N84-19276
Thermal contacts between metal and glass for use at cryogenic temperatures
[NASA-TM-85856] 12 p1907 N84-22423

OBRIEN, M. J.
Nulling in array patterns with orthogonal analytic cancellation beams
[AD-A142719] 20 p3178 N84-30188

OBRIEN, P. J.
Mixing 4D-equipped and unequipped aircraft in the terminal area 11 p1616 N84-20577

OBRIEN, P. J., JR.
Nonparametric statistics test software package
[AD-A137170] 11 p1708 N84-21132

OBRIEN, T. K.
Analysis of local delaminations and their influence on composite laminate behavior
[NASA-TM-85728] 06 p0798 N84-15199
Interlaminar fracture of composites
[NASA-TM-85768] 18 p2809 N84-27835
Comparison of toughened composite laminates using NASA standard damage tolerance tests
20 p3145 N84-29972

OBRIEN, W. F., JR.
Measurement of solid propellant burning rates employing microwave techniques 13 p1944 N84-22640

OBRIEN, W. J.
The wetting of ceramic opaque suspensions on oxidized alloy surfaces
[AD-A142899] 21 p3370 N84-31381

OBRIEN, W. P., JR.
Wave propagation study of the central Mediterranean Sea using ocean bottom seismometers
[AD-A135484] 08 p1195 N84-17790

OBRINGER, C. A.
Utilization of laser diagnostics to evaluate combustor models 15 p2294 N84-24767

OBUKHOVA, M. V.
Reliability and efficiency of Kubicek rheographic method for monitoring cardiac output and stroke volume
20 p3253 N84-30644

OCAMPO, A. C.
Phobos: Close encounter imaging from the Viking Orbiters
[NASA-RP-1109] 21 p3525 N84-32330

OCEALLAIGH, C.
A high-resolution study of ultra-heavy cosmic-ray nuclei (A0178) 15 p2275 N84-24681

OCHOA, A., JR.
Radiation testing of the CMOS 8085 microprocessor family
[DE83-014604] 02 p0271 N84-11771

OCHOA, E.
Optical computing research
[AD-A143994] 23 p3825 N84-34258

OCHS, H. T.
Variational objective analyses for cyclone studies
24 p3924 N84-34840

OCHS, J. B.
An interactive modeling program for the generation of planar polygons for boundary type solids representations of wire frame models 12 p1874 N84-22210

OCKELOEN, M. W.
An Electronic Counter Measures (ECM) program generator
[LEOK-TR-1983-13] 18 p2830 N84-27970

OCKERT, C. E.
Shock wave absorber having a deformable liner
[DE84-011308] 20 p3186 N84-30243

Shock wave absorber having apertured plate
[DE84-011271] 20 p3203 N84-30345

OCKERT, R.
POPSAT: A candidate satellite system for solid Earth applications and sciences. Preliminary feasibility study. Volume 1: Summary
[ESA-CR(P)-1882-VOL-1] 17 p2614 N84-26735
POPSAT: A candidate satellite system for solid Earth applications and sciences. Preliminary feasibility study. Volume 2: Development program
[ESA-CR(P)-1882-VOL-2] 17 p2614 N84-26736

OCKLOEN, M. W.
Feasibility study for the improvement of automatic detection of bird migration with radar images
[LEOK-TR-1983-12] 18 p2790 N84-27704

OCKO, B. M.
X-ray diffuse scattering 22 p3682 N84-33341

OCOLA, L.
Tectonic deformation of the Andes and the configuration of the subducted slab in central Peru: Results from a micro-seismic experiment
[NASA-CR-175445] 11 p1681 N84-20972

OCONNELL, J. C.
High power optical switch for microsecond switching
[AD-D011064] 19 p3017 N84-29123

OCONNELL, M. R.
Acoustic environments for JPL shuttle payloads based on early flight data 10 p1512 N84-19898

OCONNELL, R. F.
Studies on sub-micron devices with emphasis on MOS systems
[DE84-010029] 15 p2415 N84-25499

OCONNELL, T.
Ground-coupled heat pump demonstration
[PB84-156223] 14 p2135 N84-23797

OCONNOR, C. M.
The development of military aircraft engine monitoring systems 17 p2585 N84-26570

OCONNOR, D. J.
Local automation model: Functional description
[AD-A133389] 06 p0935 N84-16077
Local automation model: System specification
[AD-A141503] 19 p3116 N84-29798

OCONNOR, F. E.
Multiple launch rocket system: A case study of manpower, personnel and training requirements determination
[AD-A137644] 11 p1620 N84-20606

OCONNOR, L. J.
Signal encoding and telemetry systems for space vehicles
[AD-A134445] 07 p0963 N84-16244

OCONNOR, M.
The use of oil for in-flight flow visualization
[NASA-TM-84915] 05 p0627 N84-14122

OCONNOR, R. P.
Interactive raster data structure study
[AD-A130195] 01 p0100 N84-10649

ODA, H.
Characteristics of the MSFC, PDS microdensitometer 18 p2840 N84-28026

ODA, S.
Electronic properties of amorphous silicon dioxide 22 p3683 N84-33351

ODA, T.
Energy levels and transition probabilities of low Z ions for electric field determination 11 p1736 N84-21325

ODEGARD, N. P.
Determination of nebular temperature and density from radio recombination lines 16 p2578 N84-26541

ODELL, B. N.
Old explosives facilities need love (safety analyses) too
[DE83-014447] 02 p0205 N84-11334

ODELL, I.
Water resources data for Idaho, water year 1982. Volume 1: Great Basin and Snake River Basin above King Hill
[PB84-118470] 09 p1338 N84-18740
Water resources data for Idaho, water year 1982. Volume 2: Upper Columbia River Basin and Snake River Basin below King Hill
[PB84-118488] 09 p1338 N84-18741

ODEN, J. T.
Stability and convergence of underintegrated finite element approximations 21 p3420 N84-31696

ODENWALDER, J.
Trends in convolutional coding 13 p1976 N84-22830

ODERWALD, R. G.
Update and review of accuracy assessment techniques for remotely sensed data
[E84-10029] 01 p0099 N84-10646

ODETTE, G. R.
Analysis of hydrogen attack on pressure-vessel steels
[DE84-000061] 04 p0504 N84-13301

ODGERS, J.
The effects of fuel composition upon heat transfer in gas turbine combustors 15 p2290 N84-24740

ODHNER, O.
Foamable PVDF fluoroplastic for wire and cable applications 11 p1722 N84-21230

ODOM, E. M.
A study of polymer matrix fatigue properties
[AD-A135076] 08 p1122 N84-17294
Axial test methods development for 3-D cylindrical-weave carbon-carbon composite materials
[AD-A138221] 12 p1790 N84-21672

ODONNELL, J. J.
A high performance bulk memory system
[AD-A140780] 17 p2749 N84-27451

ODONNELL, K. A.
Time-varying speckle phenomena in astronomical imaging and in laser scattering 08 p1242 N84-18118

ODONNELL, R. D.
Utility of the cortical evoked response as a measure of photographic image quality
[AD-A131679] 03 p0377 N84-12455
Conceptual framework for the development of workload metrics in sustained operations 11 p1696 N84-21063
The U.S. Air Force neurophysiological workload test battery: Concept and validation 11 p1696 N84-21064

ODONNELL, S. T.
Solving the Poisson equation on the FPS-164 (Floating Point System-164)
[AD-A139307] 14 p2211 N84-24278
A high performance bulk memory system
[AD-A140780] 17 p2749 N84-27451

ODONNELL, W. J.
Development of a simplified procedure for rocket engine thrust chamber life prediction with creep
[NASA-CR-168261] 10 p1450 N84-19472

ODORICO, J.
Investigation of damage and damage propagation in static and fatigue tests on carbon epoxy composites
[SNIAS-841-551-102] 21 p3358 N84-31298

OECHSLEIN, W.
Kuwait, phase 3/stage 1: Application and test program for the Sulaibyah food/water/power system
[BMFT-FB-T-84-024] 16 p2476 N84-25876

OEFNER, W.
High power bogie for 350 km/h. Design and definition
[MBB-UD-376-OE] 05 p0687 N84-14518

OEGREN, V.
The stability of atropine, stored in the Swedish autoinjector
[FOA-C-40191-C3] 23 p3805 N84-34127

OELKERS, K. H.
Computer assisted processing of soil productivity assessment data for the production of soil classification maps on the basis of soil productivity assessment data on the scale 1:5000 (DGK 5 Bo) 07 p1019 N84-16610

OERY, H.
The hydraulic multiaxes vibrator: Its capabilities to simulate real mechanical environments and to verify aerospace structures 03 p0339 N84-12198

OESEBURG, F.
Results and interpretation of labor-hygienic studies in the paintshop of the jet engine depot of the Woensdrecht airbase
[PML-1982-54] 02 p0269 N84-11759

OESTBERG, A.
A computer model for an imaging coherent laser radar
[FOA-C-30341-E] 06 p0826 N84-15388

OESTBERG, K.
The radiance from an isotropic point source in a multiple scattering medium
[FOA-C-30326-E2] 02 p0295 N84-11935

OESTLUND, H. G.
Stratospheric tritium sampling
[DE84-006074] 12 p1848 N84-22045

OESTMAN, A.
Design of interactive graphics for Digital Elevation Model (DEM) sampling 15 p2358 N84-25149

OEZBEK, A.
Decentralized estimation in communication networks with delay
[AD-A142376] 20 p3174 N84-30155

OEZER, A. M.
Electron paramagnetic resonance (EPR) study of calcite (CaCO3) containing both Mn-2+ and Pb-2+ cations 15 p2401 N84-25413
Effect of iron on the electron paramagnetic resonance (EPR) spectra of Mn-2+ ions in polycrystalline calcite 15 p2402 N84-25414

OEZKARAHAN, E. A.
Query execution in the distributed RAP DBM systems 15 p2401 N84-25409

OFFENBERGER, R.
Development of a method for wear measurement of thermoplast journal bearings
[OEFZS-4271] 18 p2849 N84-28093

OFFERMANN, F. J.
Control of respirable particles and radon progeny with portable air cleaners
[DE84-013878] 23 p3812 N84-34170

OGALLAGHER, J. J.
Fundamentals and techniques of nonimaging optics, volume 2
[DE83-015447] 03 p0442 N84-12902
Design optimization studies for nonimaging concentrating solar collector tubes
[DE84-001368] 12 p1843 N84-22017
Deployment of a secondary concentrator to increase the intercept factor of a dish with large slope errors 18 p2875 N84-28252

OGANESYAN, M. G.
Simulator-probe for diagnostic testing of short-wave radio channels 22 p3567 N84-32595

OGANESYAN, S. S.
Effect of periodic accelerations of 5 G on kinetics of erythrocyte hemolysis in white rats 07 p1046 N84-16782

OGATA, T.
Fatigue process of hard steels 07 p0983 N84-16368

OGATA, Y.
On an extension of free stream-line theory
[NAL-TR-772] 09 p1313 N84-18560

OGAWA, A.
Large area spark counters with fine time and position resolution
[DE84-007804] 15 p2337 N84-25031
Large area spark counter with fine time and position resolution
[DE84-008203] 19 p3028 N84-29202

OGAWA, I.
ICRF heating experiments on JIPP T-II
[IPPJ-650] 10 p1580 N84-20352
Impurity origin during ICRF heating in JIPP T-IIU Tokamak
[IPPJ-682] 23 p3827 N84-34271

OGAWA, R.
Fatigue-crack growth behavior in a nitrogen-strengthened high-manganese steel at cryogenic temperatures
[DE83-016619] 02 p0195 N84-11269
Influence of processing on the cryogenic mechanical properties of high strength high manganese stainless steel
[DE84-008242] 20 p3154 N84-30027

OGAWA, T.
A transceiver module of the Mu radar 17 p2692 N84-27147

OGAWA, Y.
Start-up and quasi-stationary drive of plasma current by lower hybrid wave in the JPII T-IIU Tokamak
[IPPJ-667] 15 p2409 N84-25461
Alpha-particle simulation using NBI beam and ICRF wave
[IPPJ-688] 23 p3827 N84-34270

OGDEN, J. S.
Some scoping experiments for a space reactor
[DE84-009101] 20 p3298 N84-30941

OGG, B. R.
Absolute electroacoustic measurement of temperature oscillations in superfluid helium by the reciprocity method
[AD-A136951] 10 p1575 N84-20322

OGG, G. M.
MPD thruster comparisons with advanced chemical systems for auxiliary propulsion applications 20 p3139 N84-29928

OGGERO, M.
Experimental research on electric propulsion. Note 5: Experimental study of a magnetic field stabilized arc-jet
[NASA-TM-77474] 23 p3826 N84-34266

OGILVIE, I.
Surface coating systems for copper and copper alloys 06 p0815 N84-15311

OGILVIE, K. W.
The structure of the plasma sheet-lobe boundary in the Earth's magnetotail
[NASA-TM-85434] 03 p0463 N84-13049
Interpretation of 3He variations in the solar wind
[NASA-TM-85049] 03 p0466 N84-13065
The relative abundance of 3He(++) in the solar wind 03 p0473 N84-13111
The ISPM solar-wind ion composition spectrometer 09 p1261 N84-18232
Some contributions to knowledge of the magnetospheric plasma by ISEE investigators
[NASA-TM-86124] 20 p3301 N84-30962

OGILVIE, P. L.
Implementation of elastic-plastic structural analysis into NASTRAN 06 p0860 N84-15606
OGLE, J. W.
Radiation damage in optical fibers
[DE83-012740] 02 p0295 N84-11932
OGRADY, W. E.
Electro-optical switching and memory display device
[DE84-014227] 23 p3744 N84-33732
OGUCHI, H.
Flow visualization and LDV measurement of turbulent mixing layers
[REPT-606] 06 p0834 N84-15424
Gas-particle mixture flows in a spinning solid rocket motor
[ISAS-607] 07 p0965 N84-16252
OGUCHI, M.
Strapdown inertial guidance system: Onboard software and its evaluation
[NAL-TR-775] 09 p1254 N84-18184
OGURI, F.
Preliminary description of the area navigation software for a microcomputer-based Loran-C receiver
02 p0168 N84-11103
OH, B. H.
Mathematical models for inelastic behavior and cracking of concrete structures 01 p0093 N84-10605
OH, J. M.
Formation of surface layers during oxidation of a Fe-Mn-Si alloy
[DE83-009495] 03 p0354 N84-12302
OH, S. H.
Acoustic modelling and analysis of pulsating combustion in a gas-fired pulse burner 04 p0594 N84-13921
OHANDLEY, R. C.
Studies of metastable microcrystalline and glassy alloys
[AD-A139941] 15 p2297 N84-24787
OHARA, F. M., JR.
Computer-Output Microfiche (COM) on the Oak Ridge computer network
[DE84-002422] 06 p0899 N84-15836
OHARA, G. P.
Mechanical properties of silicone rubber in a closed volume
[AD-A138129] 18 p2818 N84-27890
OHARA, T.
Field data observed during the geological excursion in the west-central region of the Sul-Riograndе Shield
[E84-10146] 16 p2508 N84-26094
OHARI, T.
JBFA - buoyant flight
[NASA-TM-76815] 07 p0946 N84-16136
OHATA, C. A.
Autonomic influences on peripheral circulatory and thermal responses to cold
[AD-A134444] 08 p1201 N84-17831
Regulation and characteristics of cold-induced vasodilation
[AD-A143797] 23 p3810 N84-34158
OHAVER, T. E.
Evaluation of aircraft battery charge, discharge, and analyzation requirements for ground support equipment
[AD-A144243] 24 p3897 N84-34678
OHEREK, C. H.
Laser velocimeter developments for surveying thin boundary layers in a Mach 6 high Reynolds number flow
[AD-A130387] 01 p0083 N84-10541
OHGUSHI, K.
The physical and psychological factors governing sound-image quality
[NHK-SERIAL-298] 15 p2403 N84-25424
OHIRA, S.
Non-metallic optical cable with optical fiber catenary for long span aerial application 11 p1722 N84-21235
OHIZUMI, M.
Studies of the behavior of a snow cover on a mountain slope. 14: Poisson's ratio of snow, 2
15 p2353 N84-25120
Snow cover observations at Avalanche Research Station, Tokanbetsu, northern Hokkaido, 15 (1982-1983 winter) 23 p3762 N84-33844
OHKAWA, Y.
Perception of the movement of visual scenes during horizontal body rotation
[NAL-TR-787] 16 p2538 N84-26292
OHKUBO, K.
ICRF heating experiments on JIPP T-II
[IPPJ-650] 10 p1580 N84-20352
Start-up and quasi-stationary drive of plasma current by lower hybrid wave in the JPII T-IIU Tokamak
[IPPJ-667] 15 p2409 N84-25461
Impurity origin during ICRF heating in JIPP T-IIU Tokamak
[IPPJ-682] 23 p3827 N84-34271
OHKUMA, H.
Analysis of Sweet Lake geopressured-geothermal aquifer
[DE84-006053] 12 p1836 N84-21972
OHKURA, Y.
Cyclic ST-AN codes and modular ST distance
[AD-P002367] 14 p2194 N84-24158
OHLHABER, R. L.
Design aspects of loose buffer tube fiber optics cable
11 p1722 N84-21234
OHLMACHER, J. T.
A high resolution solar atlas for fluorescence calculations
[NASA-CR-173366] 10 p1597 N84-20465
OHLSSON, H.
Common data base experiment: Detection and location capacity
[FOA-C-20538-T1] 20 p3316 N84-31058
OHLSSON, S.
A machine learning approach to student modeling
[AD-A141704] 19 p3080 N84-29547
OHM, G.
Digital transponder 11/14 GHz, 120 Mbit/sec. Phase 2: Transponder test equipment and system measurements
[BMFT-FB-W-83-013] 07 p0994 N84-16448
Digital transponder (14/11 GHz, 120 Mbit/sec.). Phase 1: Preinvestigation and modem development
[BMFT-FB-W-83-019] 07 p0995 N84-16449
OHMAN, L. H.
Unsteady pressure and force measurements associated with transonic buffeting of a two-dimensional supercritical airfoil
[AD-A133139] 06 p0844 N84-15503
Two-dimensional wind tunnel wall interference
[AD-A138964] 11 p1603 N84-20499
OHMER, M. C.
Optical and electrical characterization of multiply doped silicon: A study of the Si:(In, Al) system
[AD-A143820] 23 p3830 N84-34294
OHNISHI, A.
Measurement of alpha/epsilon ratio by using a Sun pointing satellite Tansei 4 10 p1446 N84-19447
Measurement of incidence angle dependence of solar absorptance 10 p1447 N84-19452
OHNO, M.
Critical heat flux in forced convection boiling of Freon in a tube at high subcritical pressure: In the case of vapor-liquid mixture at inlet 07 p0984 N84-16373
OHNUMA, S.
Width of nonlinear resonance
[DE84-009862] 19 p3102 N84-29706
How much random sextupole field can we have in the presence of beam-beam interactions
[DE84-009867] 19 p3102 N84-29709
OHR, S. M.
Electron-microscope observation of crack propagation and a dislocation model of fracture
[DE83-014623] 03 p0389 N84-12540
Dislocation shielding model of fracture toughness
[DE84-007539] 15 p2351 N84-25111
OHRING, G.
The impact of satellite temperature soundings on the forecasts of a small national meteorological service
17 p2717 N84-27295
OHTA, H.
Rapid fading of the signal level on 2 GHz microwave communication link between CDAS and MSC
09 p1347 N84-18801
OHTA, N.
Supersymmetric nonlinear sigma models constrained on a noncompact manifold
[PREPRINT-356] 20 p3283 N84-30843
OHTA, T.
Development of a new, completely implantable intraventricular pressure meter and preliminary report of its clinical experience
[NASA-TM-77121] 16 p2535 N84-26276
OHTAGURO, Y.
A study on accurate frequency-control of semiconductor lasers 22 p3563 N84-32566
OHTAKE, A.
Fabrication and evaluation of a high density multi fiber plastic connector 11 p1720 N84-21223
OHTSUK, F.
Non-metallic optical cable with optical fiber catenary for long span aerial application 11 p1722 N84-21235
OHTSUKA, T.
Japanese activities in refrigeration technology
06 p0818 N84-15330
OHYABU, N.
The 3-D MHD stability of high-beta free-boundary Tokamak plasmas with finite edge-pressure-gradient and limiter stabilization
[DE84-009188] 20 p3303 N84-30976
OI, M.
Distribution of pack ice of Okhotsk Sea coast of Hokkaido observed with sea ice radar network, January-April 1983
23 p3762 N84-33846
OICLES, J. A.
Novette pulse-power-system description
[DE83-018185] 06 p0918 N84-15968
OIKONOMOU, K. N.
Fault detection using abstracted models of finite-state machines 05 p0721 N84-14724
OJAKANGAS, R. W.
Clastic sedimentary rocks of the Michipicoten Volcanic-sedimentary belt, Wawa, Ontario
11 p1679 N84-20960
OJIMA, T.
Differential emission measurement for atmospheric absorption by a ground-based microwave radiometer
23 p3774 N84-33928
OKA, A.
Crystal growth of artificial snow
18 p2799 N84-27763
OKADA, D.
A rectangular gate merged MOSBJT
[AD-A132450] 04 p0525 N84-13453
Numerical modeling of the MOSBJT
[AD-A132351] 04 p0525 N84-13456
OKADA, T.
Appropriate lengths between phalanges of multijointed fingers for stable grasping
[AD-A133448] 06 p0894 N84-15806
OKAMOTO, K.
Remote sensing of rain by an airborne dual-frequency microwave scatterometer/radiometer
23 p3774 N84-33927
OKAMOTO, P. R.
Nonequilibrium segregation and phase instability in alloy films during elevated-temperature irradiation in a high-voltage electron microscope
[DE84-013423] 21 p3505 N84-32214
OKAMOTO, S.
Development of a new, completely implantable intraventricular pressure meter and preliminary report of its clinical experience
[NASA-TM-77121] 16 p2535 N84-26276
OKAMOTO, T.
Facular limb-darkening functions for irradiance modeling 17 p2778 N84-27638
OKAMURA, S.
Buildup and sustainment of 10(13) and cm(-3) plasma by ICRF in RFC-XX
[IPPJ-653] 10 p1580 N84-20356
Conceptual design of the RFC reactor
[IPPJ-659] 11 p1733 N84-21304
Plasma heating, confinement and stabilization experiments in axisymmetric mirror-cusp device
[IPPJ-690] 24 p3965 N84-35105
OKAZAKI, Y.
A 1-dimensional disk model simulation for klystron design
[DE84-013793] 22 p3588 N84-32727
OKEEFE, J. D.
Impact and explosion crater ejecta, fragment size, and velocity
[NASA-CR-174578] 05 p0733 N84-14813
Shock vaporization and the accretion of the icy satellites of Jupiter and Saturn
[NASA-CR-173767] 19 p3122 N84-29843
OKEEFE, J. M.
Calculation of forced response to base excitation using experimentally derived modal participation factors
03 p0340 N84-12205
OKEEFE, K. J.
The 55-meter-structure flight experiment
08 p1112 N84-17233
OKEEFE, T. J.
Electrochemistry Research Needs for Mineral and Primary Materials Processing: Report of Workshop
[PB84-192905] 20 p3159 N84-30062
OKELLEY, G. D.
Implications of heavy-ion-induced satellite X-ray emission. Part 2: Production of K and L X-rays by 0.9 to 2.6 MeV/u Ar ions in thick targets of V, Cu, Nb, Ta, and Pt
[DE83-015681] 03 p0453 N84-12982
OKHOTNIKOV, O. G.
Source of optical pumping for high-resolution spectroscopy with semiconductor laser
21 p3482 N84-32070
OKHRIMENKO, Y. M.
Analytical determination of resistance of aluminium alloys to deformation
[BLL-M-35476-(5828.4)] 12 p1796 N84-21714
OKIISHI, T. H.
Aerodynamics of advanced axial-flow turbomachinery
[AD-A131360] 01 p0012 N84-10073

Stator blade row geometry modification influence on two-stage, axial-flow compressor aerodynamic performance
[AD-A141793] 19 p2966 N84-28797

Aerodynamic design and performance of a two-stage, axial-flow compressor (Baseline)
[AD-A141796] 19 p2966 N84-28798

OKINAKA, R. T.
Phototransformation of polycyclic aromatic hydrocarbons into stable, mutagenic components
[DE84-001747] 07 p0966 N84-16261

OKROUHLIK, M.
Selections on computer technology in CSSR: Computers yesterday and today
24 p3960 N84-35072

OKSANEN, M. I.
Transversely anisotropic optical fiber: Variationoal analysis of a nonstandard eigen problem
[REPT-S-133] 09 p1390 N84-19080

Asymptotic analysis of weakly guiding anisotropic optical fibers
[REPT-S-136] 09 p1390 N84-19081

OKTEDALEN, O.
A study on the gastrointestinal hormones and the gastric acid secretion during physical stress in man
[NDRE/PUBL-83/1001] 10 p1546 N84-20136

General introduction to the study on the gastrointestinal hormones and the gastric acid secretion during physical stress in man
10 p1546 N84-20137

The effect of physical stress on gastric secretion and pancreatic polypeptide levels in man
10 p1546 N84-20138

OKUBO, Y.
Plasma heating, confinement and stabilization experiments in axisymmetric mirror-cusp device
[IPPJ-690] 24 p3965 N84-35105

OKUDA, H.
Plasma Physics on auroral field lines: The formation of ion conic distributions
[NASA-CR-173683] 18 p2932 N84-28595

OKUDA, T.
Effect of lower hybrid wave heating on alpha-particle dynamics
[IPPJ-649] 10 p1580 N84-20351

OLANDER, N.
Landsat 4 TM-data: Examples of resolution capacity
[FOA-C-30329-E1] 06 p0867 N84-15644

OLAOSEBIKAN, O. B.
An evaluation of algorithms for extracting stress intensity factors from photoelastic data for 3 dimensional problems 13 p2000 N84-22974

An integral optical method for determining stress intensity factors 15 p2311 N84-24866

OLAUSSEN, T.
Seasonal ice variation in the Barents Sea obtained from the Nimbus 7 Scanning Multichannel Microwave Radiometer (SMMR) observations
23 p3773 N84-33919

The distribution of ice concentration, multiyear and first year fraction in the Arctic Ocean derived from the Nimbus 7 Scanning Multichannel Microwave Radiometer (SMMR) observations 23 p3773 N84-33920

OLBERT, S.
Role of thermal conduction in the acceleration of the solar wind 03 p0467 N84-13079

The collapse of the local, Spitzer-Haerm formulation and a global-local generalization for heat flow in an inhomogeneous, fully ionized plasma
03 p0468 N84-13080

OLDANI, J. J.
An online directory of databases for material properties
[DE84-013210] 22 p3643 N84-33099

OLDEHOEFT, R.
SISAL: Streams and Iteration in a Single-Assignment Language. Language reference manual, version 1.1
[DE83-016576] 04 p0582 N84-13843

OLDENBORG, R. C.
Disappearance rates of C2(a 3 Pi u) and C2(X 1 Sigma g +) with O2 over the temperature range 298-1300 deg K 21 p3373 N84-31405

OLDER, M. E., III
Tropical cyclone report, January - December 1983
[AD-A137836] 11 p1687 N84-21000

OLDFIELD, D.
A future system design technique based on functional decomposition, supported by quantifiable design aims, and guidelines for minimum maintenance costs
06 p0769 N84-15039

OLDHAM, P.
A portable, microprocessor controlled, multichannel fluorometer for marine analysis
[AD-A130161] 01 p0083 N84-10542

OLEARY, D. P.
Development of realistic algorithms for matrix computations on parallel computers
[AD-A136570] 09 p1376 N84-18990

OLEINKI, V. A. D.
The development of LANAC/II language for concurrent programming
[INPE-2781-PRE/347] 23 p3813 N84-34180

OLER, J. W.
Dynamic-stall regulation of the Darrieus turbine
[DE83-017994] 03 p0321 N84-12097

OLESEN, J. K.
HF omnidirectional spectral CW auroral radar (HF-OSCAR) at very high latitude. Part 1: Technique
[DMI-GEOPHYS-PAPERS-R-67]
19 p3010 N84-29079

OLESOV, Y. G.
Production of titanium powders by the electrolysis of chloride-fluoride melts with a soluble anode
[BLL-OA-TRANS-3136-(6196.3)]
08 p1128 N84-17338

OLEYNIKOV, Y. G.
Steam turbine as unipolar generator
[AD-A131142] 03 p0383 N84-12498

OLIA, H.
Two-phase fluid flow through nozzles and abrupt enlargements
[DE84-006991] 12 p1816 N84-21841

OLIFERUK, W.
Acoustic emission accompanying phase change in deformed 1H18N9T steel
[ISSN-0208-5658] 19 p2991 N84-28952

OLIGER, J.
Adaptive mesh refinement for hyperbolic partial differential equations
[AD-A130162] 01 p0131 N84-10859

OLINER, A. A.
Basic research in electronics (JSEP) Joint Services Electronics Program
[AD-A136290] 09 p1306 N84-18538

Lumped element and leaky-wave antennas for millimeter waves
[AD-A139512] 14 p2140 N84-23833

OLIPHANT, J. L.
Transport of water in frozen soil. I: Experimental determination of soil-water diffusivity under isothermal conditions
[AD-A135419] 08 p1177 N84-17671

OLIVA, J.
Dense Coulomb plasmas: Quantum statistics and ordering 15 p2410 N84-25464

OLIVASTRO, D.
Ten year trends in US technological dependence on foreign technology as indicated by referencing from US patents. Appendix
[PB84-196997] 22 p3669 N84-33255

Ten year trends in US technological dependence on foreign technology as indicated by referencing from US patents
[PB84-197003] 22 p3669 N84-33256

OLIVEIRA, J. R. D.
Optimization of the capture process for a rigid satellite stabilized by gravity gradient
[INPE-3184-PRE/549] 21 p3349 N84-31245

OLIVEIRA, P. R.
Equivalence between maximization problems subjected to inequality constraints
[INPE-3166-PRE/536] 23 p3818 N84-34206

OLIVER, C.
Random field satisfying a linear partial differential equation with random forcing term
[AD-A141886] 19 p3088 N84-29606

OLIVER, D. A.
Further developments of the A. R. A. P. model for the atmospheric marine environment
[AD-A129862] 01 p0107 N84-10696

OLIVER, G. A.
The effect of property changes on jet fuel producibility and cost 14 p2106 N84-23632

OLIVER, J. D.
LEC GaAs for integrated circuit applications
[NASA-CR-173267] 07 p1079 N84-17014

Design considerations for a monolithic, GaAs, dual-mode, QPSK/QASK, high-throughput rate transceiver
[NASA-CR-173560] 15 p2327 N84-24974

OLIVER, J. R.
Research on the crystal growth and dielectric properties of high permittivity ferroelectric materials
[AD-A142125] 19 p3111 N84-29767

OLIVER, J. W.
Meteorological interactive data display system (MIDDA)
[AD-A141864] 19 p3059 N84-29406

OLIVER, L. W.
An overview of productivity improvement efforts in Army organizations
[AD-A138589] 14 p2246 N84-24490

Research integration: An essential for Department of Defense psychological research
[AD-P003366] 18 p2913 N84-28479

OLIVER, R. E.
Ceramic tube materials and processing development
[PB84-151653] 14 p2135 N84-23795

OLIVER, R. G.
Preliminary airworthiness evaluation of the UH-60A configured with the External Stores Support System (ESSS)
[AD-A132964] 05 p0630 N84-14139

JUH-1H pneumatic boot deicing system flight test evaluation
[AD-A140986] 18 p2793 N84-27725

OLIVER, W. R.
Wind tunnel tests of high-lift systems for advanced transports using high-aspect-ratio supercritical wings
[NASA-CR-3523] 19 p2957 N84-28742

Results of design studies and wind tunnel tests of an advanced high lift system for an Energy Efficient Transport
[NASA-CR-159389] 23 p3693 N84-33403

OLIVERIA, J. S.
Human factors in space telepresence
[NASA-CR-173420] 13 p2023 N84-23119

OLIVERSEN, R. J.
The 10 plasma torus: Its structure and sulfur emission spectra 17 p2776 N84-27626

OLIVIER, R.
Euro-African MAGSAT anomaly-tectonic observations
15 p2355 N84-25129

Reduced to pole long-wavelength magnetic anomalies of Africa and Europe 15 p2355 N84-25132

Satellite magnetic anomalies of Africa and Europe
15 p2356 N84-25133

Long-wavelength magnetic and gravity anomaly correlations of Africa and Europe
15 p2356 N84-25135

OLK, L. B.
L-Division streak camera
[DE84-007780] 14 p2149 N84-23872

OLLENDORF, S.
Thermal energy management process experiment
08 p1110 N84-17222

Recent and planned developments at the Goddard Space Flight Center in thermal control technology
10 p1440 N84-19402

Low-temperature heat pipe experiment package (HEPP) for LDEF (S1001) 15 p2274 N84-24852

OLMER, L. J.
Research and development on high temperature water vapor electrolysis 11 p1739 N84-21348

OLMSCHEID, K.
Series detonator initiation system
[AD-A138101] 12 p1811 N84-21809

OLMSTEAD, M. A.
Photothermal displacement spectroscopy of surfaces and thin films
[DE83-015957] 03 p0350 N84-12279

Novel method for the study of optical properties of surfaces
[DE83-012899] 03 p0441 N84-12895

OLOFF, C. M.
Bone mineral analysis of rat vertebrae following space flight: COSMOS 1129
[AD-A133178] 07 p1042 N84-16757

Cryomicrotome applications: Techniques for the study of skeletal materials
[AD-A137010] 10 p1545 N84-20130

OLOFSSON, G.
Immobilization of biomolecules on semiconductor surfaces
[FOA-C-40178-C2(B2,A3)] 06 p0831 N84-15408

Method for evaluation of petroleum products corrosivity using piezoelectric crystals, part 1
[FOA-C-40189-B4-PT-1] 23 p3726 N84-33611

OLOUGHLIN, J. P.
Pulsed power bibliography. Volume 2: Annotated bibliography
[AD-A131753] 03 p0379 N84-12468

Pulsed power bibliography. Volume 1: Indices
[AD-A131752] 03 p0379 N84-12469

OLSEN, A. D., JR.
Airloads research study. Volume 1: Flight test loads acquisition
[NASA-CR-170409] 08 p1103 N84-17173

Airloads research study. Volume 2: Airload coefficients derived from wind tunnel data
[NASA-CR-170410] 08 p1103 N84-17174

OLSEN, D. E.
The effect of mass and stiffness changes on the damping factor in a large space structure as represented by the CSDL 2 model
[AD-A136984] 10 p1449 N84-19465
OLSEN, E. T.
An investigation of the effects of scan separation on the sensitivity of the SETI all sky survey for the case of Gaussian noise 16 p2480 N84-25905
OLSEN, G. C.
Aerothermal loads analysis for high speed flow over a quilted surface configuration
[NASA-TM-86280] 21 p3399 N84-31560
OLSEN, J. N.
Beam-target interaction of intense ion beams: Theory and experiment
[DE83-018264] 03 p0436 N84-12858
Ion stopping in heated targets
[DE83-017800] 03 p0447 N84-12941
Current status of calculations and measurements of ion stopping power in ICF plasmas
[DE84-005880] 21 p3501 N84-32187
OLSEN, R. B.
Temperature dependent hysteresis study in polyvinylidene fluoride
[AD-A132675] 05 p0659 N84-14331
Pyroelectric conversion in space: A conceptual design study
[NASA-CR-168272] 05 p0699 N84-14585
Low temperature evaluation of advanced technology hydraulic system (8,000 psi)
[AD-A143389] 22 p3538 N84-32396
OLSEN, R. C.
Plasma source for spacecraft potential control
[NASA-CR-174552] 01 p0028 N84-10177
Anomalously high potentials observed on ISEE
[NASA-CR-172791] 08 p1115 N84-17252
Anomalously high potentials observed on ISEE
08 p1116 N84-17258
Comparison of thermal plasma observations on SCATHA and GEOS 08 p1117 N84-17262
A potential control method for thermal plasma measurements on the DE-1 spacecraft
08 p1119 N84-17276
Methods for keeping a conductive spacecraft near the plasma potential 08 p1119 N84-17277
OLSEN, R. E.
A high-performance digital triggering system for phase-controlled rectifiers
[DE83-012217] 03 p0367 N84-12386
OLSEN, S.
The ISPM energetic panel particle composition experiment 09 p1261 N84-18233
OLSEN, W. A.
Heat transfer distributions around nominal ice accretion shapes formed on a cylinder in the NASA Lewis icing research tunnel
[NASA-TM-83557] 05 p0679 N84-14463
OLSGAARD, J. N.
The relationship between administrative style and the use of computer-based systems: An attitudinal study of academic library professionals 21 p3517 N84-32276
OLSHEVSKII, N. A.
Diffusional anomalies in deformed metals
[BLL-M-35490-(5828.4)] 12 p1795 N84-21708
OLSON, A. P.
Galactic cycles and their relationship to life on Earth
[DE84-011737] 21 p3525 N84-32329
Three-dimensional model for fusion processes
[DE84-011731] 21 p3526 N84-32339
OLSON, C. E.
Anomalous surface impedance in reentrant ferromagnetic superconductors
[DE84-012634] 22 p3664 N84-33230
OLSON, D. B.
Ionic mechanisms of carbon formation in flames
[AD-A137079] 10 p1455 N84-19505
Fuel effects on soot formation in turbojet engines
[AD-A141287] 18 p2821 N84-27912
OLSON, D. L.
Ferrous alloy metallurgy: Liquid-lithium corrosion and welding
[DE84-003011] 07 p0975 N84-16317
Ferrous alloy metallurgy, liquid lithium corrosion and welding
[DE84-014656] 22 p3556 N84-32517
OLSON, G. B.
Transformation plasticity in high-strength materials
[DE84-006655] 19 p2986 N84-28922
On the hierarchy of interfacial dislocation structure
[DE84-014160] 23 p3719 N84-33573
OLSON, G. J.
The mechanism of anaerobic (microbial) corrosion
[AD-A131223] 01 p0044 N84-10283
OLSON, G. L.
Kinetics of solid-phase crystallization in ion-implanted and deposited amorphous-silicon films
[DE83-015499] 02 p0300 N84-11967
Spectral variability in early-type binary X-ray systems
[NASA-TM-86060] 09 p1407 N84-19195
OLSON, J. B.
A new and unique conductive element for aircraft transparencies
[AD-P003188] 17 p2590 N84-26601
OLSON, J. M.
Method and apparatus for producing high purity silicon
[DE84-011087] 20 p3163 N84-30090
OLSON, J. S.
Carbon in live vegetation of major world ecosystems
[DE83-015328] 01 p0101 N84-10654
Development of a data base for carbon dioxide releases resulting from conversion of land to agricultural uses
[DE83-015728] 03 p0402 N84-12626
OLSON, K. A.
The development and application of an advanced computer-based shared-graphic workstation for video teleconferencing
[AD-A132583] 04 p0579 N84-13817
OLSON, L. E.
Aerodynamic characteristics of the 40- by 80/80- by 120-foot wind tunnel at NASA Ames Research Center
[NASA-TM-85946] 14 p2104 N84-23622
OLSON, M.
FAA (Federal Aviation Administration) aviation forecasts -Fiscal Years 1984-1995
[AD-A138759] 13 p1929 N84-22549
OLSON, R. E.
On-site analysis to assess the feasibility of wind power
[DE84-009762] 20 p3247 N84-30606
OLSON, R. J.
Proceedings of the 1982 Integrated Data Users Workshop
[DE83-014761] 01 p0162 N84-11066
Review of existing environmental and natural resource data bases
[DE84-012039] 21 p3519 N84-32292
OLSON, S. F.
Geology of the Portrerillos District, Atacama, Chile
21 p3438 N84-31811
OLSONI, K. E.
Develop a normative or descriptive model of the international/domestic civil aviation industry, volume 3
[AD-A131878] 03 p0314 N84-12051
Develop a normative or descriptive model of the international/domestic civil aviation industry, volume 2
[AD-A131877] 03 p0314 N84-12052
Develop a normative or descriptive model of the international/domestic civil aviation industry. Volume 1: Executive summary
[AD-A131876] 03 p0314 N84-12053
OLSSON, J.
Standardized computing system SDS80
[AD-P003585] 21 p3340 N84-31190
OLSTAD, W. B.
Aeronautics Research and Technology Program and specific objectives, fiscal year 1982
[NASA-TM-85474] 01 p0002 N84-10011
OLSZEWSKI, E. W.
Problems of stellar evolution in star clusters of the Magellanic clouds 03 p0463 N84-13051
OLSZEWSKI, M.
Overview of state-of-the-art flywheel technology
03 p0344 N84-12231
OLSZEWSKI, T.
Capacity selector valve electronics enclosure assembly controller card assembly test specifications: Revision
[AD-A144349] 24 p3898 N84-34682
OLT, R. G.
High temperature (1645 deg C, 3000 deg F) surface ignition test apparatus for fluids
[AD-A132658] 05 p0649 N84-14268
OLVER, F. W. J.
Fundamental research in applied mathematics
[AD-A143123] 21 p3474 N84-32016
OLVER, T. E.
Adaptive feedforward linear wideband HF power bank
[AD-A134744] 08 p1151 N84-17493
OLWELL, K. D.
De-excitation and equipartition in H2-surface collisions
[DE84-003008] 08 p1229 N84-18031
OM, D.
A study of transonic normal shock wave-turbulent boundary layer interactions in axisymmetric internal flow
01 p0002 N84-10015
OMALLEY, C.
User centered system design
[AD-A136131] 09 p1364 N84-18907
OMALLEY, M. W.
Dielectric breakdown distributions of large dielectric constant liquids
[DE84-013216] 22 p3548 N84-32461
OMALLEY, T. A.
Users' manual for computer program for three-dimensional analysis of coupler-cavity traveling wave tubes
[NASA-CR-168269] 14 p2141 N84-23841
OMALLEY, T. J.
The aircraft availability model: Conceptual framework and mathematics
[AD-A132927] 05 p0626 N84-14115
OMARAMRANI, A.
Steady and unsteady flow models for airfoils with spoiler 03 p0327 N84-12136
OMEDINA, S. O.
The role of the state library agency in the future: A Delphi study 22 p3669 N84-33258
OMELCHENKO, A. N.
Further analysis of plasma bursts in high-latitude boundary layer of earth 19 p2973 N84-28847
OMELCHENKO, S.
Start automated traffic control system operational at Krasnodar 01 p0001 N84-10004
OMENETTO, N.
Marine remote sensing activities of the Joint Research Center, Ispra, Italy 03 p0396 N84-12586
OMIDI, N.
Path integrated growth of auroral kilometric radiation
[NASA-CR-173995] 24 p3919 N84-34812
OMLOR, R. E.
Characterization of the microstructures of various materials
[AD-A141946] 20 p3152 N84-30017
OMOTOSO, M. A.
Biaxial orientation and mechanical properties of amorphous polymers 13 p1998 N84-22965
OMURA, J. K.
VLSI architectures for computing multiplications and inverses in GF(2-m) 04 p0518 N84-13406
ON, F. J.
Development of baseline random vibration environment criteria for Shuttle pallet payload subsystems
[NASA-TM-86087] 14 p2113 N84-23666
ONAKA, T.
Quenched Carbonaceous Composite (QCC): A likely candidate for interstellar grains
16 p2571 N84-26501
Quenched Carbonaceous Composite (QCC): A likely candidate for interstellar grains
18 p2949 N84-28699
ONDERLICKA, B.
Stellar Spectra and Their Interpretation. 1st conference of the Subcommission No. 2 15 p2421 N84-25540
ONDREJCIN, R. S.
Prevention of stress-corrosion cracking in nuclear waste storage tanks
[DE84-001410] 14 p2128 N84-23758
ONEAL, J. E.
Optimum microstructures for SPF (superplastic forming) using hydrovac
[AD-A130944] 01 p0044 N84-10280
Influence of rare-earth additions on properties of titanium alloys. Effects of yttrium and erbium additives on rapid solidification processing, superplastic forming, welding, and strengthening of titanium alloys
[AD-A133669] 05 p0654 N84-14299
ONEAL, M. E.
F-15 Limited Field of View visual system training effectiveness evaluation
[AD-A144309] 24 p3938 N84-34925
ONEAL, R. L.
Investigation of fuselage acoustic treatment for a twin-engine turboprop aircraft in flight and laboratory tests
[NASA-TM-85722] 07 p1069 N84-16947
ONEIL, E. F.
Preventative measures to limit stress corrosion cracking in prestressed concrete
[AD-A136665] 10 p1471 N84-19609
ONEIL, M. E.
The simulation of a major Automated Information System (AIS) on a microcomputer
[AD-A143599] 23 p3834 N84-34323
ONEILL, D. J.
Observations of sea surface conditions during WEAP (Weapons Environmental Acoustics Program) experiment, May 1982: An example of real-time monitoring of the upper ocean environment
[AD-A140021] 15 p2374 N84-25241
ONEILL, J. J.
Automated acceptance test procedures for wideband microwave synthesized signal generator testing
[AD-A134923] 08 p1162 N84-17563

ONEILL, M. J.
A transmittance-optimized, point-focus Fresnel lens solar concentrator 18 p2871 N84-28228
ONEILL, P.
Aircraft remote sensing of soil moisture and hydrologic parameters, Taylor Creek, Florida, and Little River, Georgia, 1979 data report
[E84-10010] 02 p0236 N84-11548
The effects of vegetation and soil hydraulic properties on passive microwave sensing of soil moisture: Data report for the 1982 fiels experiments
[NASA-TM-85106] 07 p1023 N84-16633
L band push broom microwave radiometer: Soil moisture verification and time series experiment Delmarva Peninsula
[E84-10084] 10 p1520 N84-19955
Microwave radiometer experiment of soil moisture sensing at BARC test site during summer 1981
[NASA-TM-86056] 14 p2168 N84-23989
ONEILL, P. E.
Radar response from vegetation with nodal structure
[E84-10085] 10 p1520 N84-19956
ONEILL, P. M.
A Q-GERT analysis of the effect of improved automatic testing on F-16 aircraft availability
[AD-A134280] 07 p0945 N84-16128
ONG, E.
High-temperature molten salt thermal energy storage systems for solar applications
[NASA-CR-167916] 06 p0873 N84-15679
ONG, H. L.
Optically-induced bistability in a nematic liquid crystal
14 p2234 N84-24401
ONISHI, Y.
MEXAMS (Metals exposure analysis modeling system)
[PB84-157155] 12 p1799 N84-21736
ONJI, A.
Scattering distribution characteristics of rare gases reflected from metal surface with absorbed gas molecules
[NAL-TR-761] 09 p1394 N84-19101
ONO, H.
Crystal growth of artificial snow
18 p2799 N84-27763
ONO, K.
Characterization of carbon fiber composites using acousto-ultrasonic techniques
[AD-A132305] 04 p0506 N84-13317
ONO, M.
Ion Bernstein wave heating experiment on JIPPT-II-U device
[IPPJ-662] 11 p1734 N84-21305
An R and D model of a synthetic aperture radar antenna 23 p3777 N84-33949
ONO, T.
Technique for removing resin from a molded object
[NASA-TM-77240] 11 p1641 N84-20729
ONODA, J.
An analysis of the buckling of truncated or complete spherical shells under axial compressive loads
07 p0985 N84-16379
ONOPCHENKO, V. M.
The effect of technological parameters on the heterogeneity of continuously cast slab
[BLL-M-35095-(5828.4)] 01 p0042 N84-10271
ONSTOTT, R. G.
Theoretical and experimental study of radar backscatter from sea ice
[AD-A139866] 15 p2321 N84-24935
Marginal ice zone experiment (1983). Part 1: Ice characterization measurements. Part 2. Helicopter-borne and ship-based radar backscatter measurement of sea ice in the marginal ice zone
[AD-A139894] 15 p2373 N84-25238
Active microwave measurements of sea ice in the marginal ice under summer conditions
23 p3772 N84-33913
ONTKO, N. R.
Evaluation of stress corrosion cracking characteristics of selected fastener systems in 7075-T6 aluminum
[AD-A132162] 04 p0499 N84-13272
OOLBEKKING, B.
Wind tunnel tests on an outer wing segment of the ASW-19X sailplane
[VTH-LR-369] 10 p1423 N84-19305
OOMS, M.
Remote monitoring of sediments and chlorophyll as traces of pollutant movements in a Mediterranean coastal area 23 p3780 N84-33969
OOSTERHOFF, F.
Development of a new charger system
[BMFT-FB-T-83-305] 15 p2328 N84-24977
OOSTERKAMP, W. J.
Neutron embrittlement of the reactor vessel in Borssele as determined from Charpy specimens
[S/T-REPT-VOL-1-NO-4] 20 p3204 N84-30352
OPAL, C. B.
Microdensitometer errors: Their effect on photometric data reduction 18 p2839 N84-28024
OPALKA, J. M.
SANDUS MA164 digital data acquisition system specifications, November 8, 1982
[DE84-006502] 11 p1704 N84-21110
OPALSKI, W.
A methodology for digital processing of geographic and cartographic data
[AD-A135835] 09 p1337 N84-18730
OPEL, S. W.
Transition of corner cracks at holes into through-the-thickness cracks
[AD-A136922] 10 p1517 N84-19933
OPHIR, D.
GRIDPACK: Toward unification of general grid programming
[AD-A131692] 03 p0420 N84-12746
OPHOFF, W.
Raster processing for regional planning tasks
20 p3227 N84-30507
OPOCZKY, L.
Grinding kinetics and equilibrium states
[NASA-TM-77430] 19 p3002 N84-29025
OPPENHEIM, A. K.
Experimental and theoretical study of combustion jet ignition
[NASA-CR-168139] 01 p0009 N84-10054
Numerical modeling of turbulent flow in a channel
[NASA-CR-168278] 04 p0485 N84-13189
Aerodynamic features of flames in premixed gases
11 p1613 N84-20559
Molecular beam mass spectrometer sampling of flash ignited combustion
[DE84-006771] 22 p3548 N84-32459
OPPENHEIM, A. V.
Digital signal processing 22 p3684 N84-33357
OPPENHEIM, U. P.
Measurement of atmospheric transmission over long paths in the infrared spectral region
[AD-A139619] 15 p2368 N84-25209
OPPERMANN, G.
Physical and chemical investigations on real catalyst surfaces
[BMFT-FB-T-83-273] 13 p1958 N84-22729
OPPERMANN, H.
Comparison of fatigue life prediction based on local strains and nominal stresses respectively
[LBF-FB-169(183)] 10 p1518 N84-19937
OPPERMANN, M.
Recycling of duroplastic moulding materials hardened by dispersion by means of powdering and compounding new materials
[BMFT-FB-T-83-302] 15 p2301 N84-24811
OPRESKO, D. M.
Problem definition study on emission by-product hazards from diesel engines for confined space Army workplaces
[AD-A141377] 19 p3052 N84-29367
OPSAL, J. L.
Progress on ultrasonic flaw sizing in turbine-engine rotor components: Bore and web geometries
[DE83-018081] 03 p0333 N84-12167
Inverse born approximation: Exact determination of shape of convex voids
[DE83-017685] 03 p0385 N84-12512
OPSTAD, P. K.
The effect of physical stress on gastric secretion and pancreatic polypeptide levels in man
10 p1546 N84-20138
Attention, performance, and sustained activation in military air traffic controllers 11 p1698 N84-21076
ORABI, I.
Critically damped dynamic systems
15 p2313 N84-24879
ORAILOGLU, A.
Software design issues in the implementation of hierarchical display editors 21 p3463 N84-31953
ORAN, E. S.
A review of research in chemical-acoustic coupling
[AD-A129896] 01 p0140 N84-10915
Numerical simulations of fuel droplet flows using a Lagrangian triangular mesh
[NASA-CR-168263] 03 p0370 N84-12411
The relation between power and energy in the shock initiation of detonations. 1: Basic theoretical considerations and the effects of geometry
[AD-A133468] 06 p0844 N84-15505
Time dependent, compressible simulations of shear flows: Tests of outflow boundary conditions
[AD-A136410] 09 p1314 N84-18587
Reactive shock phenomena in condensed materials: Formulation of the problem and method of solution
[AD-A136514] 09 p1385 N84-19046
Numerical simulations of the structure and propagation of self-sustained detonations
[AD-A142486] 20 p3184 N84-30230
Theory of vorticity generation by shock wave and flame interactions
[AD-A144432] 24 p3880 N84-34582
ORANGE, T. W.
Wide range weight functions for the strip with a single edge crack
[NASA-TM-83478] 02 p0231 N84-11512
ORAS, J. J.
Thermal laminarization of a stratified pipe flow
[DE84-006407] 20 p3185 N84-30236
ORATOVSKAYA, I. E.
Stability of mechanical properties of cold-drawn rolled metal with high-temperature thermomechanical treatment
[BLL-M-35292-(5828.4)] 06 p0803 N84-15233
ORAV, E. J.
Interannual variability in sea-surface temperature at one location along the central California coast
[AD-A142553] 20 p3251 N84-30632
ORBACH, R. L.
Dynamical properties of disordered systems
[AD-A141597] 19 p3085 N84-29580
ORBITS, D. A.
A CRAY-Class multiprocessor simulator
[AD-A136555] 09 p1365 N84-18913
ORD, G. R.
The Spacelab Atmosphere Storage and Control Section (ASCS) and its orbiter common hardware flight performance 10 p1443 N84-19427
ORDONEZ, G. G.
The effect of strakes on vortical flows applied to aircraft
[AD-A139989] 15 p2257 N84-24560
ORE, E. L.
Concrete tensile strength study
[PB84-101021] 08 p1172 N84-17637
OREF, I.
Average vibrational energy transfer during a single collision of excited molecules with heat bath molecules
[AD-A133391] 06 p0915 N84-15949
OREHOV, I. I.
Method of production of nitrophosphates
[CSIR-TRANS-1689] 01 p0036 N84-10225
OREILLY, C. A.
Dynamic sequence assignment
[AD-A136548] 09 p1384 N84-19037
OREL, A. E.
Localized hole effects in inner-shell excitation
[DE84-001401] 05 p0755 N84-14958
OREN, J. A.
Flexible radiator thermal vacuum test report
[NASA-CR-171764] 11 p1623 N84-20622
Flexible radiator system
[NASA-CR-171765] 11 p1623 N84-20623
OREN, J. R.
Flexible radiator system: Executive summary
[NASA-CR-171766] 11 p1623 N84-20624
OREPER, G.
Heat flow, fluid flow and solidification phenomena in weld pools 15 p2306 N84-24835
ORFEI, R.
A comparison between GEOS 1 magnetic field measurements and some models of the geomagnetic field
[IFSI-82-5] 03 p0409 N84-12675
ORGANIC, V. J.
An airborne color video insetter
[AD-A132183] 04 p0484 N84-13185
An airborne programmable digital to video converter
[AD-A134839] 08 p1104 N84-17181
A dual digital to video converter for avionics symbology and messages
[AD-A138383] 12 p1771 N84-21547
A dual digital to video converter and color video insetter for avionics symbology and messages
[AD-A143772] 23 p3693 N84-33408
ORGANICK, E. I.
Transformation of Ada program units into silicon
[AD-A141004] 18 p2833 N84-27986
ORHAUG, T.
Landsat 4 TM-data: Examples of resolution capacity
[FOA-C-30329-E1] 06 p0867 N84-15644
Informatics 1983: Signal processing
[FOA-A-30033-E] 15 p2321 N84-24932
ORIORDAN, S. J. P.
A technique for optimizing the aerodynamic design of a generalized combat aircraft with forward swept wings for the purposes of stability and control investigation
[CA-8325] 16 p2448 N84-25700
ORIOWSKI, M.
On conditions for success of Sklansky's convex hull algorithm
[CSIR-TWISK-282] 07 p1059 N84-16866

ORISHICH, A. M.
Energy characteristics of plasma generated in air near target by radiation from CO2 laser
21 p3488 N84-32103
ORKILD, P. P.
Stratigraphic and volcano-tectonic relations of Crater Flat Tuff and some older volcanic units, Nye County, Nevada
[DE84-010926] 20 p3242 N84-30584
ORLANDI, G.
Maximum entropy linear prediction method
[FUB-48-1982] 06 p0902 N84-15857
Linear prediction methods
[FUB-52-1982] 06 p0902 N84-15858
Geometric methods for linear prediction
[FUB-54-1982] 06 p0903 N84-15859
An efficient method for the conversion to residue number systems and its application to convolutions
[FUB-53-1982] 14 p2220 N84-24319
ORLANDO, A.
Model of the behavior of the human visual system for the perception of contour elements
[FUB-44-1982] 05 p0714 N84-14677
The possibility of reduction of the subjective redundance of image signals with particular reference to contour coding
[FUB-43-1982] 05 p0748 N84-14911
ORLANDO, T. P.
Synthesis and characterization of superconducting electronic materials
[AD-A144137] 24 p3966 N84-35116
ORLANDO, V.
Algorithm for real time control of non linear systems with application to the control satellite alignment systems
[INPE-2755-PRE/331] 09 p1265 N84-18263
Stochastic techniques applied to the smoothing treatment of bias and compression of artificial satellite tracking and telemetry data
[INPE-2909-TDL/148] 13 p1938 N84-22604
Application of an adaptive noise technique on state estimation to data smoothing
[INPE-3187-PRE/552] 21 p3465 N84-31963
Objectives: Activities and needs of the digital simulation laboratory, attitude and orbit control systems, and the thermal control laboratory of the space mechanics and control department
[INPE-3174-RPE/459] 23 p3833 N84-34311
ORLANDO, V. A.
Traffic alert and collision avoidance system (TCAS): A functional overview of active TCAS I
[AD-A132281] 04 p0482 N84-13171
ORLANSKY, J.
Determining cost and training effectiveness tradeoffs for trainer design: Test of an experimental model
[AD-P003455] 21 p3509 N84-32232
Operating costs of aircraft and flight simulators
[AD-A144241] 24 p3969 N84-35132
ORLICKI, D.
Comments on bounded error adaptive control
[NASA-CR-173139] 07 p1057 N84-16848
Comments on bounded error adaptive control
[NASA-CR-173542] 15 p2399 N84-25393
Adaptive control with variable dead-zone nonlinearities
[NASA-CR-173960] 24 p3948 N84-35001
ORLIK-RUECKEMANN, K. J.
Recent developments and future directions in dynamic stability research at NAE, Ottawa
14 p2097 N84-23582
ORLOFF, K. L.
A laser velocimeter system for large-scale aerodynamic testing
[NASA-TM-84393] 07 p0947 N84-16144
Laser velocimetry in the low-speed wind tunnels at Ames Research Center
[NASA-TM-85885] 07 p1007 N84-16526
Three-dimensional laser Doppler anemometer measurements of a jet in a crossflow
[NASA-TM-85997] 24 p3900 N84-34695
ORLOV, A. A.
Visualization of the 3-dimensional flow around a model with the aid of a laser knife
[NASA-TM-77497] 23 p3746 N84-33748
ORLOVA, T. A.
Changes in blood urea content under hypokinetic conditions 02 p0260 N84-11703
ORLOVSKIY, V. M.
Miniaturized pulsed CO2 laser with sealed electron source 13 p1969 N84-22782
ORLOWSKI, M.
A convex hull algorithm for planar simple polygons
[CSIR-TWISK-290] 07 p1059 N84-16864
On an algorithm for external triangulation of ELV polygons
[CSIR-TWISK-287] 11 p1712 N84-21162
ORMEROD, M.
Aeroelastic considerations in preliminary design of a military combat aircraft 02 p0172 N84-11132
ORMISTON, R. A.
Design considerations for bearingless rotor hubs
[AD-A131660] 03 p0331 N84-12162
ORMONT, N. N.
Photoconductivity of alpha-Si-H in infrared range of spectrum 18 p2825 N84-27933
ORMSBEE, A. I.
Flame acceleration mechanisms under conditions of partial confinement
[PB83-244012] 03 p0358 N84-12328
Trailing edge flow conditions as a factor in airfoil design
[NASA-CR-173294] 08 p1098 N84-17140
ORNDORFF, M. S.
Evaluation of automated configuration management tools in ADA programming support environments
[AD-A140982] 18 p2944 N84-28666
ORNEDO, R.
Fault-tolerant system considerations for a redundant strapdown inertial measurement unit
[NASA-CR-172426] 23 p3692 N84-33396
OROOJI, A.
The implementation of a multi-backend database system (MDBS). Part 4: The revised concurrency control and directory management processes and the revised definitions of inter-process and inter-computer messages
[AD-A140874] 17 p2750 N84-27453
ORORKE, R. J., JR.
The technical, economic and institutional feasibility of customer premises Earth stations for INTELSAT service
[PB84-128404] 10 p1484 N84-19703
OROURKE, P. J.
Los Alamos mini-review. Numerical calculations of hydrogen-air combustion
[DE83-016508] 02 p0191 N84-11240
OROZCO, R.
Investigation to optimize the passive shock wave-boundary layer control for supercritical airfoil drag reduction
[NASA-CR-173276] 07 p0946 N84-16135
ORR, E. D.
Estimation of uncertainty in coal resources
[DE83-902538] 03 p0401 N84-12620
ORR, J. S.
Preparation of a profiled film of diamond-like carbon on germanium substrates
[AD-A136314] 09 p1394 N84-19104
ORR, R. S.
Study of tracking and data acquisition system for the 1990's. Volume 4: TDAS space segment architecture
[NASA-CR-175212] 10 p1434 N84-19372
ORRALL, F. Q.
Observational evidence for solar wind acceleration at the base of coronal holes 03 p0468 N84-13082
ORRIOLS, M.
Automation of a stamping press using sequential hydraulic manipulators
[CETIM-1-4N-090] 21 p3376 N84-31422
ORSINI, A.
The compatibility of MON-3 and 301 cryoformed stainless steel 20 p3138 N84-29924
ORSINI, S.
Observation of multiple ion beams in the magnetotail low latitude boundary layer. Evidence for a double H+ population
[IFSI-82-10] 03 p0409 N84-12676
The structure of the plasma sheet-lobe boundary in the Earth's magnetotail
[NASA-TM-85434] 03 p0463 N84-13049
The DC electric field in space: Direct measurements and inferences from cold plasma drifts
08 p1117 N84-17264
Low energy (130 eV) oxygen ions at the geosynchronous orbit during the CDAW-6 event of March 22, 1979
[IFSI-83-17] 18 p2881 N84-28291
ORSWELL, P. L.
The GOES X-ray imager feasibility demonstration
[PB84-111970] 09 p1319 N84-18614
ORSZAG, S. A.
Boundary-integral simulations of rayleigh-taylor instability in ideal magnetohydrodynamics
[AD-A131667] 03 p0444 N84-12920
ORTABASI, U.
Deployment of a secondary concentrator to increase the intercept factor of a dish with large slope errors
18 p2875 N84-28252
ORTALE, C.
Large-area mercuric iodide photodectors
[DE83-013035] 03 p0441 N84-12898
ORTEGA, J. M.
New results of the ACO storage ring free electron laser
[AD-A137785] 11 p1663 N84-20848
UV and VUV degradation of very high reflectivity mirrors for use in a storage ring free electron laser
[AD-A138740] 13 p2043 N84-23255
Research in computer science
[NASA-CR-173857] 22 p3637 N84-33056
ORTHS, K.
Method and apparatus for the rapid determination of gases, oxygen in particular, and of the combined forms in which they are present in metals
[BLL-OA-TRANS-3127-(6196.3)]
08 p1129 N84-17340
ORTIZ, J. A.
High-speed digital signal normalization for feature identification
[NASA-TM-85719] 02 p0270 N84-11767
ORTON, G. F.
Design and development of Shuttle Get-Away-Special experiment G-0074 18 p2800 N84-27770
ORUMA, B. O.
The relationship between exhaustivity and consistency at the optimum indexing level 16 p2565 N84-26462
ORVILLE, H. D.
Cloud scale influences on mesoscale precipitation patterns 24 p3930 N84-34879
ORVILLE, R. E.
Nighttime observations of thunderstorm electrical activity from a high altitude airplane
[NASA-TM-86455] 21 p3405 N84-31597
Nighttime observations of thunderstorm electrical activity from a high altitude airplane
24 p3926 N84-34853
Remote observations of severe storms
24 p3927 N84-34859
ORVIS, W. J.
Modeling and testing for second breakdown phenomena
[DE84-002470] 07 p0994 N84-16444
ORZECHOWSKI, J. A.
Progress on a generalized coordinates tensor product finite element 3DPNS algorithm for subsonic
[NASA-CR-172256] 07 p1002 N84-16495
ORZECHOWSKI, T. J.
High gain free electron laser at ETA
[DE84-002001] 05 p0686 N84-14512
OSADCHIYEVA, N. A.
Dynamics of changes in metabolic and endocrine processes in helicopter crews during commercial flights
15 p2375 N84-25254
OSAKA, K.
Development of a new, completely implantable intraventricular pressure meter and preliminary report of its clinical experience
[NASA-TM-77121] 16 p2535 N84-26276
OSAKI, K.
Numerical analysis on the ion species ratios in a steady state hydrogen plasma
[IPPJ-687] 23 p3826 N84-34269
OSANTOWSKI, J. F.
Instrumentation studies for FUSE-Columbus
24 p3982 N84-35229
OSATO, S.
Influences on group productivity. 2: Factors inherent in the person. A bibliographic synopsis
[AD-A131015] 06 p0891 N84-15790
OSATYUK, Y.
Use of economic mechanisms in managing scientific and technical progress 13 p2064 N84-23389
OSBORN, G. C.
InAsSb strained-layer superlattices for long wavelength detector applications
[DE84-001055] 06 p0924 N84-16004
OSBORN, H. B.
Climatic change and streamflow in the southwest
[DE84-012658] 21 p3432 N84-31776
OSBORN, J. D.
CAD/CAM technology working group report IDA/OSD R/M (Institute for Defense Analyses/Office of the Secretary of Defense Research and Maintainability) study
[AD-A137761] 11 p1666 N84-20867
OSBORN, J. E.
Finite element methods for the solution of problems with rough input data
[AD-A140955] 18 p2925 N84-28552
OSBORN, J. R.
Effect of non-constant solid phase thermal properties on temperature sensitivity of solid propellant
13 p1946 N84-22654
OSBORN, L.
Research reports: 1983 NASA/ASEE Summer Faculty Fellowship Program
[NASA-CR-170942] 06 p0927 N84-16022
OSBORN, W.
The occultation of AG+29 deg 398 by 98 Minerva
[NASA-CR-173827] 20 p3319 N84-31066

OSBORN, W. L.
Launch vehicle aerodynamic flight test results
01 p0019 N84-10119

OSBORNE, D.
The C-squared system: A general-purpose neuron network model
[AD-A136191] 09 p1304 N84-18524

OSBORNE, J.
Preliminary results of coordinated optical UV and X-ray observations of magnetic white dwarfs in binaries
24 p3980 N84-35216

OSBORNE, L.
Predictions of satisfaction with automated library circulation systems 22 p3670 N84-33259

OSBORNE, R. S.
An alternate concept for expanding man's presence in space
[NASA-TM-84617] 06 p0794 N84-15172

OSBORNE, T. H.
Disruptive instabilities in a poloidal divertor tokamak
[DE84-013054] 21 p3501 N84-32192

OSBORNE, W. M.
Guidance on software maintenance
[PB84-128951] 09 p1371 N84-18952

OSBOURN, E. W.
Evolution of a heave control system for an amphibious hovercraft
[CAR-8401] 16 p2475 N84-25864

OSBOURN, G. C.
Axial-channeling studies of strained layer superlattices
[DE83-013309] 01 p0154 N84-11010
Ion channeling analysis of GaAs/sub x/P/sub 1-x/GaP strained-layer superlattices
[DE84-002536] 05 p0755 N84-14952
An In0 2Ga0 8As/GaAs, modulation-doped, strained-layer superlattice field-effect transistor
[DE84-000136] 06 p0924 N84-16006
Resonance between channeled particle wavelengths and periodicity of strained-layer superlattices
[DE84-002173] 07 p1081 N84-17032
Material properties of semiconductor strained-layer superlattices
[DE84-002103] 07 p1082 N84-17034
Quantum well multijunction photovoltaic cell
[DE84-011113] 21 p3393 N84-31529
Irradiation of optimized, MBE grown, AlGaAs radiation hardened photodiode
[DE84-008034] 21 p3504 N84-32208

OSETROV, V. P.
Studies of amplifier module in Delfin Facility for heating thermonuclear plasma 20 p3289 N84-30881

OSGA, G. A.
A man-machine interface concept for a state-of-art, shipboard, command/control console
[AD-P002894] 13 p1980 N84-22854

OSGOOD, R. M., JR.
Direct writing of microstructures for microelectronics
[AD-A144528] 24 p3898 N84-34687

OSGUTHORPE, D. J.
Computer simulation of protein systems
10 p1559 N84-20214

OSHAUGHNESSY, S. F.
Computer Generated Acquisition Document System (CGADS)
[AD-P002784] 13 p2055 N84-23331

OSHER, J. E.
Novel neutralized-beam intense neutron source for fusion technology development
[DE83-014953] 01 p0144 N84-10949

OSHER, S.
High resolution schemes and the entropy condition
[NASA-CR-172218] 01 p0128 N84-10836
Convergence of generalized MUSCL schemes
[NASA-CR-173356] 09 p1372 N84-18959
Convergence of generalized MUSCL schemes
[NASA-CR-172306] 10 p1420 N84-19286
Entropy condition satisfying approximations for the full potential equations of transonic flow
[NASA-TM-85751] 11 p1601 N84-20485
Riemann solvers, the entropy condition and high resolution difference approximations
[AD-P002945] 14 p2198 N84-24185

OSHIDA, Y.
Literature survey on oxidations and fatigue lives at elevated temperatures
[NASA-CR-174639] 11 p1633 N84-20674

OSHIMA, K.
Thermofluidynamics of heat pipes
10 p1443 N84-19423
Proceedings of the Symposium on Mechanics for Space Flight
[ISAS-SP-2] 20 p3168 N84-30114

OSHIMA, Y.
Numerical simulation of autorotation
20 p3168 N84-30118

OSHIRO, M.
The heat pipe exchanger with controllable heat exchanging area 20 p3169 N84-30124

OSIECKI, R. A.
Evaluation of selective solar-absorber surfaces, phase 2
[DE84-000067] 04 p0559 N84-13685

OSIPOV, E. K.
Anodic electrochemical processing of amorphous alloys 24 p3870 N84-34527

OSIPOV, O. A.
The effect of the structure of metallo-organic complexes on the electrolytic precipitation of titanium and niobium from nonaqueous electrolytes
[BLL-OA-TRANS-3070-(6196.3)] 04 p0497 N84-13259

OSIPOV, V. V.
Miniaturized pulsed CO2 laser with sealed electron source 13 p1969 N84-22782

OSKAM, B.
Transonic panel method for the full potential equation applied to multi-component airfoils
[NLR-MP-83030-U] 17 p2601 N84-26674

OSKAM, H. J.
Study of plasma chemistry and plasma processing
[AD-A132207] 04 p0606 N84-13997

OSKORBIN, L. C.
Seismicity of the North-Eastern Sakhalin shelf
19 p3061 N84-29422

OSLIK, N.
User's guide for SBUV/TOMS ozone derivative products
[NASA-RP-1116] 07 p1036 N84-16720

OSLUND, J. E.
Shuttle orbiter main propulsion system hardware development and certification for flight
20 p3135 N84-29907

OSOKINA, T. F.
Prediction of vomiting in dogs exposed to radiation with shielding of midabdomen 02 p0261 N84-11710

OSSAKOW, S. L.
Parametric excitation and suppression of convective plasma instabilities in the high latitude F-region ionosphere
[AD-A130652] 01 p0105 N84-10682
Velocity shear stabilization of the current convective instability
[AD-A137963] 12 p1909 N84-22439
Rayleigh-Taylor instability in the presence of a stratified shear layer
[AD-A138544] 13 p2011 N84-23043
Quasi-steady state multi-plasma cloud configuration in the ionosphere
[AD-A141532] 19 p3107 N84-29739
Influence of magnetic shear on the collisional current driven ion cyclotron instability
[AD-A143391] 22 p3659 N84-33191
Finite temperature effects on the evolution of ionospheric barium clouds in the presence of a conducting background ionosphere
[AD-A143592] 23 p3798 N84-34082

OSSENKOPP, B. D.
Application guidelines for quality assurance procedures for hybrid microcircuits
[AD-A131395] 02 p0214 N84-11405

OSSWALD, G. A.
A direct numerical method for the solution of unsteady Navier-Stokes equations in generalized orthogonal coordinates 21 p3397 N84-31549

OSTAPENKO, A. M.
Image input/output controller-interface based on 16-bit microprocessor 24 p3942 N84-34954

OSTBERG, D. T.
Characterization of selected properties for alumina-aluminum metal matrix composites
[AD-A135580] 09 p1283 N84-18377

OSTEN, D. W.
Multivariate curve resolution in liquid chromatography
[DE84-013797] 22 p3549 N84-32466

OSTERYOUNG, J.
Arrays of very small voltammetric electrodes based on reticulated vitreous carbon
[AD-A134031] 05 p0674 N84-14426

OSTERYOUNG, R. A.
Polymer coated electrodes in ambient temperature molten salts
[AD-A133202] 06 p0801 N84-15220
Electrochemical and spectroscopic studies of polypyridine complexes of Fe(2)/(3) and Ru(2)/(3) in the aluminum chloride: N-(1-Butyl)Pyridinium chloride molten salt
[AD-A139170] 14 p2122 N84-23715
Electrochemical polymerization of pyrrole and electrochemistry of polypyrrole films in ambient temperature molten salts
[AD-A139174] 14 p2122 N84-23716
Increased electrochemical window in ambient temperature neutral ionic liquids
[AD-A139194] 14 p2122 N84-23717
Cathodic stripping voltammetry of thioamides on a rotating silver disk electrode
[AD-A139200] 14 p2122 N84-23718

OSTGAARD, J. C.
Network communications for a distributed avionics system 06 p0771 N84-15052

OSTHOFF, W.
Constitutive equations for the creep behavior of nickel-base alloys for High Temperature Reactor (HTR) components in the temperature range 1023-1273 K
[JUEL-1843] 05 p0657 N84-14318

OSTLIE, D. A.
Linear and nonlinear models of Mira variable stars
02 p0304 N84-11996

OSTOP, J. A.
Development and fabrication of an augmented power transistor
[NASA-CR-168262] 02 p0212 N84-11388

OSTOWARI, C.
An experimental investigation of separated three dimensional flow on general aviation twin-engine aircraft
03 p0319 N84-12087

OSTRO, S. J.
Radar investigation of asteroids
[NASA-CR-175350] 07 p1090 N84-17090
Radar investigations of asteroids
[NASA-CR-175348] 07 p1092 N84-17100
Radar investigation of asteroids
[NASA-CR-173603] 16 p2576 N84-26530

OSTROFF, A. J.
Evaluation of a total energy-rate sensor on a transport airplane
[NASA-TP-2212] 03 p0332 N84-12164
Reconfigurable multivariable control law for commercial airplane using a direct digital output feedback design
[NASA-TM-85759] 09 p1257 N84-18206

OSTROM, T. M.
Pairwise balanced latin squares should always be used for within-subjects designs
[AD-A137283] 10 p1569 N84-20282

OSTROVSKII, O. I.
Electrical resistances of molten alloys of iron containing carbon, boron and phosphorus
[BLL-M-35214-(5828.4)] 01 p0041 N84-10263
Magnetic susceptibility of Fe-B, Fe - P and Ni - P alloys
[BLL-M-35126-(5828.4)] 01 p0138 N84-10902

OSTROVSKIY, A. G.
Development of upper mixed ocean layer with increase in stability and in presence of wind
18 p2857 N84-28143

OSTROVSKIY, I. V.
Alternating acoustoelectric current generated by interaction of two waves in acoustic microwaveguide
21 p3380 N84-31449

OSTROVSKIY, V. S.
Nature of polarized vibronic sidebands of biexciton absorption in Alpha-oxygen 20 p3289 N84-30884

OSTROW, S. J.
Asteroid light inversion
[NASA-CR-173864] 21 p3523 N84-32316

OSULLIVAN, D.
A high-resolution study of ultra-heavy cosmic-ray nuclei (A0178) 15 p2275 N84-24661

OSULLIVAN, G. A.
Advanced photovoltaic system simulator to demonstrate the performance of advanced photovoltaic cells and devices
[DE83-009405] 08 p1180 N84-17668

OSULLIVAN, T. C.
The propagation and arrest of an edge crack in an elastic half-space under conditions of anti-plane shear: Analytical and numerical results 04 p0547 N84-13604
The propagation and arrest of an edge crack in an elastic half-space under conditions of anti-plane shear: Analytical and numerical results
[AD-A137275] 10 p1517 N84-19930

OSWALD, C.
Time dependent, compressible simulations of shear flows: Tests of outflow boundary conditions
[AD-A136410] 09 p1314 N84-18587

OTA, D. K.
Coherent structure modeling of viscous subiayer turbulence for incompressible flow with heat transfer and for compressible flow
[AD-A140478] 16 p2493 N84-25994

OTAVINA, L. A.
Electrical characteristics of metal-dielectric-semiconductor systems produced on epitaxial silicon structures with various dielectrics
21 p3479 N84-32052

OTAWAGA, T.
Portable device for detecting and identifying hazardous vapors
[DE84-003640] 14 p2148 N84-23870
OTIS, A. L.
The United States Air Force graduate student summer support program, 1983. Management report
[AD-A139363] 14 p2245 N84-24483
United States Air Force summer faculty research program, 1983. Program management report
[AD-A139366] 14 p2245 N84-24484
United States Air Force summer faculty research program, 1983, volume 1
[AD-A139403] 14 p2245 N84-24485
United States Air Force summer faculty research program, 1983, volume 2
[AD-A139404] 14 p2246 N84-24486
OTOOLE, A. J.
Auditory induction of discrete tones in signal detection tasks
[AD-A135502] 08 p1227 N84-16019
Pattern-directed attention in uncertain frequency detection
[AD-A135905] 10 p1547 N84-20142
OTOOLE, T.
Development of theoretical models and analyses of the micro-physics of cloud and precipitation systems
[AD-A133557] 06 p0882 N84-15735
OTSUBO, K.
Strapdown inertial guidance system: Onboard software and its evaluation
[NAL-TR-775] 09 p1254 N84-18184
OTSUKA, H.
Fluorescent discharge lamp
[NASA-TM-77456] 10 p1485 N84-19706
OTSUKA, M.
Emission properties of highly ionized iron spectra for spectroscopic plasma diagnostics
11 p1735 N84-21314
OTT, H. R.
Impurities in the heavy-Fermion superconductor UBe13
[DE84-001731] 05 p0755 N84-14951
Superconducting ground state of a strongly interacting electron system: UBe13
[DE84-001706] 06 p0923 N84-16003
OTT, J. S.
Simulation of Thematic Mapper data for remote bathymetry
[AD-A136377] 09 p1337 N84-18728
OTT, K. P.
Statistical trend analysis methodology for rare failures in changing technical systems
[JUEL-SPEZ-215] 07 p1067 N84-16928
OTT, R. H.
Calculation of ground wave attenuation over irregular, inhomogeneous, layered media using PROGRAM WAGNER
03 p0364 N84-12369
OTT, W.
Preliminary results from the Heating Rocket (HERO) project: In situ measurements of ionospheric modifications using sounding rockets 05 p0636 N84-14183
OTT, W. E.
Total temperature probe buffer amplifier
[AD-D011037] 19 p3027 N84-29197
OTT, W. R.
Field surveys of carbon monoxide in commercial settings using personal exposure monitors
[PB84-211291] 22 p3599 N84-32797
OTTEMAN, L. G.
Panel 2A: Offshore oil and gas technology assessment 18 p2866 N84-28196
OTTEN, D.
Energy transfer in atom-molecule collisions with suprathermal collision energy
[MPIS-2/1984] 23 p3824 N84-34249
OTTENS, H. H.
Dynamic behavior of wind turbines
[NLR-MP-83047-U] 18 p2876 N84-28263
OTTERSON, D. A.
Group-type hydrocarbon standards for high-performance liquid chromatographic analysis of middistillate fuels
[NASA-TP-2317] 14 p2131 N84-23774
OTTINGER, P. F.
Diode dynamics, beam generation and transport and plasma erosion opening switch development
[AD-A129821] 01 p0070 N84-10457
Theoretical modeling of the plasma-erosion opening switch for inductive-storage applications
[DE84-001843] 04 p0529 N84-13483
Status of light ion inertial fusion research at NRL (Naval Research Laboratory)
[AD-A135951] 09 p1392 N84-19087
OTTO, D. A.
Event-related brain potentials: An alternative methodology for neurotoxicological research
[PB83-246116] 04 p0573 N84-13775
OTTO, G. H.
First results of a MAUS experiment to investigate the stability of a metallic dispersion
17 p2612 N84-26724
OTVOS, J. W.
The effect of dimensionality on solar spectrum curves
[DE84-014136] 22 p3680 N84-33327
OTZINGER, B.
Charge control investigation of rechargeable lithium cells 23 p3736 N84-33671
OUCHI, S.
Response of alluvial rivers to active tectonics
21 p3438 N84-31812
OUGHOURLIAN, C. V.
ANSR-3: General purpose computer program for nonlinear structural analysis
[PB83-251330] 05 p0694 N84-14556
OUIBRAHIM, A.
Kinetic-elastic approach for time-dependent rheological data on slurry fuels and polymers
[AD-A141210] 18 p2821 N84-27911
OUKSEL, M.
Order-preserving dynamic hashing schemes for associative searching in data base systems
13 p2066 N84-23400
OULID-AISSA, M.
A methodology for the distribution of databases
22 p3670 N84-33265
OUTLAW, D. A.
System for producing high-resolution polarized and unpolarized beams with a tandem accelerator
[DE84-004054] 09 p1388 N84-19063
OUTLAW, D. G.
Prototype tidal data analysis for Mississippi Sound and adjacent areas
[AD-A134071] 06 p0883 N84-15744
OUTLAW, R. A.
Precision manipulator heating and cooling apparatus for use in UHV systems with sample transfer capability
[NASA-CASE-LAR-13040-1] 19 p3026 N84-29191
OUYANG, F.
Preliminary study of a radiantly heated fluidized bed for the production of high purity silicon
[NASA-CR-173758] 19 p3050 N84-29352
OVADIA, S.
Fluctuations in optical bistability: Experiment with shot noise 14 p2232 N84-24392
OVCHAROV, V. P.
Amorphous materials from precision alloys
[BLL-M-35179-(5828.4)] 01 p0041 N84-10264
OVENDEN, C.
Alfven solitons in the solar wind
03 p0467 N84-13075
OVERBEEK, R. A.
Tools for the creation of IMS database designs from Entity-Relationship diagrams
[DE84-000582] 04 p0616 N84-14066
Approach to programming multiprocessing algorithms on the Denelcor HEP
[DE84-005440] 10 p1565 N84-20251
Portable environment for research in automated reasoning
[DE84-009212] 15 p2396 N84-25372
Logic machine architecture inference mechanisms: Layer 2 user reference manual release 2.0
[DE84-012115] 20 p3267 N84-30728
Implementation of monitors with macros: A programming aid for the HEP and other parallel processors
[ANL-83-97] 23 p3817 N84-34200
OVERINGTON, I.
Some comparisons between NVL and oracle-based MRTD approaches
[BAE-BT-11240] 13 p2020 N84-23096
A potentially powerful method of simple automatic recognition exhibiting scale and orientation independance
[BAE-BT-11088] 13 p2021 N84-23102
Some considerations of forms and distributions of receptive field units in early visual processing
[BAE-BT-11177] 13 p2021 N84-23103
Some observations on relative approaches to visual acquisition modelling
[BAE-BT-11241] 13 p2021 N84-23104
OVERMAN, E. A., II
Diagnostic algorithms for contour dynamics
[AD-P002947] 14 p2198 N84-24187
OVERSKEI, D. O.
High power neutral beam heating on Doublet 3
[DE84-012471] 21 p3501 N84-32186
OVERTON, B. J.
Evaluation of adhesive materials for bonded sheath cable designs 11 p1721 N84-21226
OVERTON, J. H., JR.
Pulmonary dosimetry of nitrogen dioxide in animals and man
[PB83-243394] 03 p0414 N84-12711
Acidification of rain by the oxidation of dissolved SO2 and the absorption of HNO3
[PB84-168368] 15 p2367 N84-25200
Dosimetry of ozone and nitrogen dioxide in man and animals
[PB84-195304] 22 p3631 N84-33009
OVERTON, W. C., JR.
Revision of the statistical mechanics of phonons to include phonon line widths
[DE83-017229] 04 p0614 N84-14051
Thermomagnetic properties of GdPd
[DE84-009991] 22 p3556 N84-32515
Dynamics of normal-zone propagation in Ta at small currents
[DE84-009990] 22 p3666 N84-33245
OVERTURF, G. E., III
Plating on aluminum: Influence on varying zinc immersion treatment times
[DE83-015246] 02 p0196 N84-11272
OVSEPYAN, O. G.
Normal magnetic field maps for Caucasus region for epoch 1980 18 p2861 N84-28168
OVSYANNIKOV, A.
Polyurethane aircraft coatings for fuel savings
02 p0167 N84-11096
OWE, M.
L band push broom microwave radiometer: Soil moisture verification and time series experiment Delmarva Peninsula
[E84-10084] 10 p1520 N84-19955
OWECHKO, Y.
Real-time synthetic aperture radar image formation utilizing an electrooptic spatial light modulator
07 p0989 N84-16411
OWEN, D. B.
Statistical analyses for nondestructive testing
[AD-A143668] 23 p3758 N84-33821
OWEN, D. H.
Optical flow and texture variables useful in simulating self motion (2)
[AD-A133597] 06 p0889 N84-15779
OWEN, D. L.
CPESIM II: A computer system simulation for computer performance evaluation use
[AD-A138116] 12 p1877 N84-22233
OWEN, D. R.
Manufacture of DPFC-DMS polymer in the SKG range
[NASA-CR-166276] 18 p2817 N84-27888
OWEN, E. W.
Normal zone detectors for a large number of inductively coupled coils, revision 1
[DE84-011053] 21 p3392 N84-31526
Switching transients in a superconducting coil
[DE84-012592] 21 p3393 N84-31532
Alternative power supply and dump resistor connections for similar, mutually coupled, superconducting coils
[DE84-012602] 21 p3393 N84-31534
OWEN, F. K.
Application of laser velocimetry to unsteady flows in large scale high speed tunnels
[NASA-CR-166575] 12 p1765 N84-21511
An evaluation of factors affecting the flow quality in wind tunnels 14 p2096 N84-23577
Wake profile measurements of fixed and oscillating flaps
[NASA-CR-166602] 24 p3852 N84-34428
Laser velocimeter measurements of dynamic stall
[NASA-CR-166603] 24 p3852 N84-34429
OWEN, H. A., JR.
Derivation of linearized transfer functions for switching-mode regulations. Phase A: Current step-up and voltage step-up converters
[NASA-CR-175219] 10 p1485 N84-19707
OWEN, J.
The anisotropy of high latitude nighttime F-region irregularities
[AD-A131215] 01 p0106 N84-10688
OWEN, J. W.
Transverse flat-plate heat pipe experiment (S1005)
15 p2274 N84-24653
OWEN, W. A.
Concentrator development 18 p2871 N84-28225
Advanced solar receivers 18 p2872 N84-28232
OWENS, D. H.
On sensitivity, compensation and the approach to the asymptotes in multivariable root-loci
[RR-222] 03 p0426 N84-12795

Design of Smith control schemes for time-delay systems based on plant step data
[RR-231] 05 p0733 N84-14812
Geometric conditions for generic structure of multivariable root-loci
[RR-227] 05 p0738 N84-14849
Stability and performance deterioration due to modelling errors
[RR-236] 13 p2031 N84-23166
Parameterization and approximation methods in feedback theory with applications in high gain, fast sampling and cheap optimal control
[RR-241] 13 p2031 N84-23167
A simulation aid to gain estimates for robust tuning regulators
[RR-245] 18 p2922 N84-28533
Some notes on optimization of confidence bands in process control based on approximate models
[RR-215] 19 p3003 N84-29031
Control systems design for linear dynamic systems using simple models: Some case studies. Part 1: The single-input/single-output case
[RR-247-PT-1] 20 p3171 N84-30134
A simulation technique for checking the circle criterion
[RR-248] 20 p3267 N84-30733
Linear structures in bilinear systems
[RR-250] 20 p3284 N84-30852

OWENS, E. C., JR.
After-test engine inspection of US Army administrative and light-tactical vehicles operated on gasohol and unleaded gasoline
[AD-A137312] 10 p1502 N84-19817
Engine wear with methanol fuel in a nitrogen-free environment
[AD-A143530] 22 p3604 N84-32833

OWENS, J. G.
Automated hierarchical to CODASYL (Conference On Data Systems Languages) database interface schema translator
[AD-A138012] 12 p1918 N84-22496

OWENS, M.
Fields and currents and charges on obstacles in a parallel-plate simulator at selected frequencies and with pulse excitation
[AD-A132406] 04 p0520 N84-13418

OWENS, R. W.
Implementation of a subgradient projection algorithm II
[AD-A132835] 05 p0737 N84-14841
A characterization of an element of best simultaneous approximation
[AD-A134542] 07 p1063 N84-16893

OWENS, W. B.
A compilation of moored current meter data from the region of the North Pacific boundary current, volume 33
[AD-A140687] 17 p2737 N84-27389

OWENS, W. W.
Aspects of electroless nickel plating on molybdenum
[DE84-006434] 20 p3158 N84-30057

OWETE, O. S.
Flow of foam through porous media
[DE84-012410] 20 p3186 N84-30246

OWINGS, J.
A device-dependent interface for interactive image display
[NASA-TM-86136] 21 p3461 N84-31949

OWOCKI, S. P.
Interpreting the solar wind ionization state
03 p0473 N84-13115

OWREN, H. M.
Fault detection and protection system for neutral beam generators on the Neutral Beam Engineering Test Facility (NBETF)
[DE84-006634] 12 p1903 N84-22394

OWSLEY, N. L.
High resolution spectrum analysis by dominant mode enhancement 09 p1401 N84-19153

OWYOUNG, A.
Highly sensitive high resolution Raman spectroscopy using resonant ionization methods
[DE84-012240] 22 p3548 N84-32460

OXMAN, J.
Prototype development of an information-sharing and decision support system for the manpower personnel and training community
[AD-P003310] 18 p2909 N84-28451

OXOBY, G.
Monitoring of the Stanford Linac microbunches' position
[DE83-012712] 03 p0433 N84-12840

OYAMA, J.
Hyper-gravitational effects on metabolism and thermoregulation 09 p1358 N84-18871

OYEDIRAN, A. A.
Are detonations steady?
[AD-P002975] 14 p2201 N84-24211

OYGENBLIK, E. A.
Effect of centrifuging on survival of early larvae of common frogs 15 p2377 N84-25266

OYIBO, G. A.
The use of affine transformations in the analysis of stability and vibrations of orthotropic plates
01 p0093 N84-10603

OZAKI, T.
Development of a new, completely implantable intraventricular pressure meter and preliminary report of its clinical experience
[NASA-TM-77121] 16 p2535 N84-26276
Stress corrosion cracking of austenitic stainless steels in sea water: An investigation of test methods
[BLL-RISLEY-TRANS-4568-(9091.9)]
22 p3551 N84-32478

OZAWA, T.
Portable reflectance spectrometer
[NASA-CASE-NPO-13556-1] 23 p3749 N84-33766

OZBEK, H.
Density of sodium chloride solutions at high temperatures and pressures
[DE84-004883] 10 p1456 N84-19508

OZIMINA, C. D.
Optimal control and filter gains for the stationary continuous or discrete time LQG problem - A FORTRAN program
[AD-A137667] 11 p1713 N84-21168

OZKUL, A.
Comparative performance assessment of INTELSAT 5 nickel hydrogen and nickel cadmium batteries
23 p3740 N84-33704

OZNOBISHCHEV, S.
U. S. ASAT program viewed as element of space militarization policy 19 p2978 N84-28878

OZSOY, T.
An interactive modeling program for the generation of planar polygons for boundary type solids representations of wire frame models 12 p1874 N84-22210

OZYURT, M. K.
Real-time applications in multiprocessor systems
[AD-A142130] 19 p3072 N84-29492

P

PAABO, M.
Study of biological samples obtained from victims of MGM Grand Hotel fire 04 p0514 N84-13374

PACANOWSKY, E.
Status of ammonium nitrate in propellants and explosives 13 p1946 N84-22655

PACE, C. E.
Condition evaluation of Supersonic Naval Ordnance Research Track (SNORT)
[AD-A140036] 15 p2265 N84-24599

PACE, D.
APPLIB user's manual
[DE83-016238] 02 p0274 N84-11794

PACE, E.
Improving frequency utilization efficiency in time and space with isofrequency multiple access networks in private systems of cellular type
10 p1477 N84-19648
The RIAM project 10 p1477 N84-19653

PACE, J. V., III
Calculations of radiation fields and monkey mid-head and mid-thorax responses in AFRRI-TRIGA reactor facility experiments
[DE83-015483] 02 p0264 N84-11741

PACE, M. D.
EPR spectroscopy of thermally initiated free radicals in RDX
[AD-A133976] 05 p0648 N84-14251

PACE, M. O.
Current assessment of the potential of dielectric gas mixtures for industrial applications
[DE84-011658] 22 p3588 N84-32724

PACE, N.
Gravity, body mass and composition, and metabolic rate 09 p1355 N84-18854

PACE, P.
A frequency stabilization and trigger control unit for hybrid TEA-CO2 lasers
[AD-A132247] 04 p0540 N84-13552

PACELLA, F.
Central configurations of the N-body problem
[AD-A132820] 05 p0736 N84-14836
Morse theory for symmetric functionals on the sphere and an application to a bifurcation problem
[AD-A141709] 19 p3087 N84-29596
Morse theory for flows in presence of a symmetry group
[AD-A144661] 24 p3952 N84-35026

PACEY, G.
A field splicing system for single-mode optical fiber
11 p1726 N84-21257

PACHTER, M.
The automatic transmission optimal control problem
[CSIR-TWISK-286] 07 p1057 N84-16844

PACIOREK, K. J. L.
Dihalo-monaphospha-s-triazines and their derivatives
[AD-D011175] 23 p3714 N84-33545
Halo-substituted diphospha-s-triazines and their derivatives
[AD-D011176] 23 p3714 N84-33546

PACIOREK, K. L.
Synthesis of perfluoroalkylene dianilines
[NASA-CR-168004] 02 p0189 N84-11228
Thermal oxidative degradation reactions of perfluoroalkiethers
[NASA-CR-168224] 02 p0189 N84-11229

PACK, D. C.
The kinetic theory of gases with applications in rarefied gas dynamics
[PREPRINT-746] 02 p0221 N84-11449

PACK, D. H.
Representativeness of meteorological observations
[DE83-017699] 04 p0568 N84-13743

PACK, D. J.
Intercomparison of stable-element content of foods by statistical methods
[DE83-014029] 01 p0118 N84-10764
Why didn't Box-Jenkins win (again)?
[DE83-014043] 03 p0427 N84-12802

PACK, G. J.
Transparent arrays: Progress toward higher efficiency
19 p3048 N84-29338

PACK, S. C.
Multiplane finite element method: Applications to fiber reinforced material 03 p0348 N84-12261

PACKAN, N. H.
Effects of pulsed dual-ion irradiation on phase transformations and microstructure in Ti-modified austenitic alloy
[DE84-001985] 06 p0807 N84-15257
Effects of pulsed and/or dual ion irradiation on microstructural evolution in a Ti and Si modified Austenitic alloy
[DE84-003411] 08 p1134 N84-17374
Temperature aspects of pulsed ion bombardment in an austenitic alloy
[DE84-003382] 08 p1134 N84-17376

PACKARD, D.
Smart motor technology 15 p2349 N84-25096

PACKER, L.
Production of hydrogen by cyanobacteria
[PB83-228379] 01 p0054 N84-10347

PACKER, L. L.
X-ray wear metal monitor
[AD-A131251] 01 p0012 N84-10076

PACORI, F.
Use of a small scale wind tunnel and model shop at Aeronautica Macchi as an industrial tool
14 p2097 N84-23585

PADALKO, O. V.
Obtaining titanium carbide powder from titanium shavings 12 p1785 N84-21645

PADDISON, F. C.
The APL RCS (Radar Cross Section)/statistics code description, illustrations of output, and user's guide
[AD-A142929] 21 p3386 N84-31490

PADEN, V. L.
Organizational-climate dimensions: A conceptual and judgmental analysis
[AD-A132898] 06 p0934 N84-16068
A set of organizational-climate measures: Internal consistency, factor structure, and predictive power
[AD-A135352] 09 p1398 N84-19132

PADERES, F. C., JR.
Simulation aspects in the study of rectification of satellite scanner data 03 p0394 N84-12571

PADERIN, S. N.
High temperature solid oxide electrolytes for research in metallurgical processes and steelmaking
11 p1740 N84-21352

PADILHA, A. L.
Interpretation of aeromagnetic anomalies of the Quadrilatero Ferrifero region
[INPE-2897-PRE/416] 04 p0562 N84-13707
Quantitative interpretation of aeromagnetic anomalies in the Sinclinal Gandarela
[INPE-3070-PRE/487] 22 p3614 N84-32698

PADMANABHAN, V.
Determination of elevator and rudder hinge forces on the Learjet model 55 aircraft 06 p0860 N84-15604

PADOVA, C.
Mach number and density effects in the mixing of supersonic jets 13 p1942 N84-22628

PADOVAN, J.
Self-adaptive solution strategies
21 p3420 N84-31693
Interactive finite elements for general engine dynamics analysis
21 p3421 N84-31698
PAE, K. D.
Mechanical and physical properties of poly(vinylidene fluoride) at high pressures and temperatures
[AD-A137842] 11 p1637 N84-20705
High pressure melting and crystallization of Nylon-11
[AD-A136858] 13 p1964 N84-22760
Pressure-dependence of glass transition temperature of elastomeric glasses
[AD-A141485] 19 p2998 N84-28999
PAERL, H. W.
Chlorophyll and carotenoid pigments of prochloron (prochlorophyta)
10 p1544 N84-20119
PAESLEME, N. M.
Meteor showers effects in the low terrestrial ionosphere detected at VLF ionosonde and long distance propagation paths
[INPE-3242-PRE/588] 24 p3990 N84-35246
PAETSCH, L.
Development of molten carbonate fuel cell technology
[DE84-004856] 15 p2364 N84-25183
PAEZ, T. L.
Least favorable response of inelastic structures
[AD-A136289] 09 p1330 N84-18687
Identification of damage in hysteretic structures
[AD-A136342] 09 p1331 N84-18688
Mathematical models for damageable structures
[AD-A136574] 10 p1572 N84-20296
PAFFENHOFER, G. A.
Biological processes in the water column of the South Atlantic Bight
[DE84-004336] 11 p1682 N84-21035
PAFFRATH, D.
Quantitative determination of aerosol concentrations by lidar with respect to various relative humidities
23 p3780 N84-33968
PAGE, D. E.
Report on the activities of the Space Science Department
[ESA-SP-1062] 17 p2774 N84-27611
PAGE, G. C.
Relationship of Benkelman beam deflection as measured by Florida method to those measured by AASHTO method T-256-77, P-13-79
[PB83-252973] 05 p0694 N84-14557
PAGE, J.
An approach to software cost estimation
[NASA-TM-85607] 13 p2026 N84-23136
Managers handbook for software development
[NASA-TM-85604] 13 p2028 N84-23150
PAGE, R.
Climatological frequency distributions for Juneau, Alaska
[PB84-154814] 14 p2180 N84-24059
PAGE, R. A.
Characterization and analysis of cavity development during creep of ceramics at elevated temperature
[DE84-003113] 07 p0979 N84-16345
A new approach to the evaluation of the effects of stress state and interfacial properties on the behavior of advanced metal matrix composites
[AD-A143083] 21 p3357 N84-31294
Evaluation of the effects of stress state and interfacial properties on the behavior of advanced metal matrix composites
[AD-A143911] 23 p3711 N84-33525
PAGE, R. C.
Microwave excitation of a CO2 laser
[AD-A138057] 12 p1820 N84-21862
PAGNAMENTA, A.
Data needs for the track structure of alpha particles and electrons in water
[DE84-009154] 19 p3103 N84-29710
PAGNI, P. J.
Flame heights, flame radiation and flame spread
04 p0513 N84-13371
PAGNINI, L.
Aerodynamic instability of cable-stayed bridges: Theoretical experimental study of stall flutter
18 p2789 N84-27700
PAHL, D. A.
Hydrazine APU starter development
[AD-A131575] 02 p0180 N84-11175
Hot gas APU starter for advanced aircraft applications
03 p0335 N84-12178
PAHL, R. G., JR.
Effects of fatigue on the G.P. zones in Al-Zn alloys
[AD-A137518] 10 p1459 N84-19530
Size distribution for G.P. zones in dilute Al-Zn alloys
[AD-A137519] 10 p1459 N84-19531
PAI, D. M.
Influence of soft inclusions on the strength of wrought materials
[NASA-CR-173610] 16 p2464 N84-25791
Tensile fracture of ductile materials
[NASA-CR-173607] 16 p2464 N84-25792
PAI, M.
Transport properties of selected metal oxides
11 p1740 N84-21356
PAI, S. S.
Extension of constrained incremental Newton Raphson methodologies to handling generalized thermomechanical loading fields
23 p3760 N84-33829
PAICK, K.
A method for constructing a unimodal inferential or prior distribution
[AD-A141389] 19 p3083 N84-29566
Information-theoretic non-parametric unimodal density estimation
[AD-A144522] 24 p3953 N84-35035
PAIGE, F. E.
Monte Carlo simulation of high p/sub P jets
06 p0911 N84-15915
Detecting heavy quark jets
06 p0914 N84-15939
PAILHAS, G.
Three-dimensional wake of a swept wing
06 p0838 N84-15458
PAILLARD, C.
A shock tube study of chlorine azide decomposition
13 p1958 N84-22728
The onset of detonation behind incident shock waves in chlorine azide-argon mixtures
13 p1990 N84-22921
PAILLOUS, A.
Thermal control coatings experiment (A0138-6)
15 p2273 N84-24647
PAINE, A.
The nicrosil versus nisil type N thermocouple: A commercial reality
[MRL-R-903] 16 p2495 N84-26005
PAINTER, W. D.
NASA B-57B severe storms flight program
[NASA-TM-84921] 05 p0628 N84-14129
PAISAN, L.
An automatic syntheses of hardware algorithm
22 p3563 N84-32568
PAISLEY, D. L.
High strain rate characterization of materials
[AD-A134342] 07 p1016 N84-16593
PAISLEY, M. J.
Precision digital dilatometry: A microcomputer-based approach to sintering studies
[DE84-009794] 19 p3073 N84-29497
PAK, G. T.
Source of optical pumping for high-resolution spectroscopy with semiconductor laser
21 p3482 N84-32070
PALACZ, M.
Telecommunications (selected articles)
[AD-A131872] 03 p0361 N84-12346
PALAIO, N. P.
Development of neutron-transmutation-doped germanium bolometer material
[DE84-008248] 14 p2243 N84-24471
PALAMARCHUK, V. K.
Allowance for geomagnetic field variations and tie-in of observations in highly precise aeromagnetic surveys
17 p2704 N84-27221
PALANDATI, C. F.
EMU battery/module service tool characterization study
23 p3739 N84-33696
PALEOLOGOU, E.
Ambipolar diffusion in interstellar clouds: One-dimensional, isothermal collapse
06 p0939 N84-16099
PALEVSKY, A.
1 megawatt, 100 GHz gyrotron study
[DE84-006527] 12 p1814 N84-21823
PALEY, J. J.
Intercenter Problem Reporting and Corrective Action System (PRACAS)
11 p1748 N84-21408
PALFREYMAN, W. D.
Guide to the geology of Australia
[BMR-BULL-181] 23 p3797 N84-34076
PALIWAL, K. C.
Civil turbofan propulsion system integration studies using powered testing techniques at ARA, Bedford
[ARA-MEMO-246] 13 p1931 N84-22561
PALKO, R. L.
Documentation of ice shapes on the main rotor of a UH-1H helicopter in hover
[NASA-CR-168332] 08 p1098 N84-17139
PALLASCHKE, S.
Comparison of the portable Program ECS Package for Synchronous Orbit Control (PEPSOC) and the ESOC Multi-Satellite Support System (MSSS) control software
05 p0725 N84-14762
PALLOTTINO, G. V.
Analysis of some filtering and data analysis methods for gravitational wave antennas with resonant transducers
[IFSI-82-11] 03 p0362 N84-12359
Data analysis for gravitational wave antenna with resonant transducers
[IFSI-82-12] 03 p0363 N84-12360
Simplified analysis of a capacitive resonant transducer with a SQUID amplifier
[IFSI-83-4] 05 p0686 N84-14508
Gravitational antenna with non tuned resonant transducer
[IFSI-84-1] 18 p2831 N84-27972
PALLUCONI, F. D.
Evaluation of thermal data for geologic applications
[NASA-CR-173211] 07 p1033 N84-16703
PALM, B. J.
Optimal design of high-efficiency single-junction and tandem concentrator space cells at 80 deg C and 100 SUNS
19 p3046 N84-29326
PALM, J.
Human factors in weapon systems
[FOA-A-58006-H2] 15 p2384 N84-25297
PALMADESSO, P.
Electrostatic ion-cyclotron waves in magnetospheric plasmas: Non-local aspects
[NASA-CR-174501] 05 p0749 N84-14917
Tearing instability in an anisotropic neutral sheet
[AD-A132684] 05 p0749 N84-14920
Finite geometry effects on the stability of a charged beam propagating through a relativistic annular electron beam
[AD-A133338] 06 p0915 N84-15948
Fast collisionless tearing in an anisotropic neutral sheet
[NASA-CR-175415] 11 p1737 N84-21331
Temporal evolution of whistler growth in a cold plasma injection experiment
[NASA-CR-173972] 23 p3828 N84-34280
PALME, J.
Computer-based conferencing
11 p1752 N84-21435
PALMER, B. A.
New program for the least-squares calculation of atomic energy levels
[DE83-014076] 01 p0143 N84-10941
Studies of an inductively coupled plasma with a Fourier-transform spectrometer
[DE83-014194] 01 p0151 N84-10991
Line width and line shape analysis in the inductively coupled plasma by high resolution Fourier transform spectrometry
[DE84-004358] 10 p1457 N84-19513
PALMER, D. R.
Acoustic ray-path fluctuations induced by El Nino
[PB84-167709] 16 p2534 N84-26270
PALMER, D. V.
Design and robustness analysis of reduced order controllers for large flexible space vehicles
15 p2269 N84-24623
PALMER, F. T.
Adaptive spectral smoothing
[AD-A132574] 04 p0588 N84-13887
PALMER, J.
Spectroradiometric calibration of the Thematic Mapper and multispectral scanner system
[E84-10098] 13 p2004 N84-23000
In-flight absolute radiometric calibration of the Thematic Mapper
13 p2004 N84-23002
PALMER, J. F.
Aircrew Automated Escape Systems (AAES) In-service Usage Data Analyses, volume 1
[AD-A134833] 08 p1100 N84-17154
Aircrew Automated Escape Systems (AAES) In-service Usage Data Analyses, volume 2
[AD-A134834] 08 p1100 N84-17155
PALMER, J. M.
In-flight absolute radiometric calibration of the thematic mapper
[E84-10044] 04 p0552 N84-13637
Spectroradiometric calibration of the thematic mapper and multispectral scanner system
[E84-10045] 04 p0552 N84-13638
In-flight absolute radiometric calibration of the thematic mapper
[E84-10064] 06 p0865 N84-15633
Spectroradiometric calibration of the thematic mapper and multispectral scanner system
[NASA-CR-175405] 11 p1671 N84-20905

Spectroradiometric calibration of the Thematic Mapper and Multispectral Scanner system
[E84-10136] 16 p2506 N84-26084
In-flight absolute radiometric calibration of the Thematic Mapper 20 p3208 N84-30383

PALMER, K. F.
Optical constant determination of thin films condensed on transmitting and reflecting substrates
[AD-A140845] 17 p2768 N84-27578

PALMER, L. B.
Transverse horizontal coherence and low-frequency array gain limits in the deep ocean
[AD-A131916] 03 p0430 N84-12821

PALMER, L. D.
High-temperature oxidation of alpha nickel-silicon. 1: Reaction kinetics; thermogravimetry
[MRL-R-887] 12 p1796 N84-21717

PALMER, M. T.
A route generator concept for aircraft onboard fault monitoring
[NASA-TM-86264] 21 p3326 N84-31104

PALMER, P. R., JR.
US military aircraft cost handbook
[AD-A136035] 09 p1249 N84-18158

PALMER, R.
Hadron-hadron collider group
[DE83-010704] 03 p0437 N84-12865

PALMER, R. B.
The design and expected performance of a fast scintillator hadron calorimeter 06 p0912 N84-15926

PALMER, R. E.
Development of lateral-directional equivalent system models for selected U.S. Navy tactical aircraft
[AD-A141672] 19 p2968 N84-28810

PALMER, R. L.
Experimental studies of secondary ion emission from well-characterized surfaces
[AD-A133186] 06 p0914 N84-15943

PALMER, T. A.
Stinger post hybrid simulation: Design description and users' manual
[AD-A130027] 01 p0122 N84-10791

PALMGREN, S.
Informatics 1983: Signal processing
[FOA-A-30033-E] 15 p2321 N84-24932

PALMOUR, H., III
Precision digital dilatometry: A microcomputer-based approach to sintering studies
[DE84-009794] 19 p3073 N84-29497

PALOMBO, C. R.
Preliminary chemical analysis of rain water in Cubatao: Ambient effects
[INPE-2857-PRE/396] 23 p3792 N84-34053

PALUMBO, D. L.
Software Implemented Fault-Tolerant (SIFT) user's guide
[NASA-TM-86289] 23 p3817 N84-34199

PALUMBO, G. C.
An atlas of UV spectra of supernovae
[ESA-SP-1046] 15 p2424 N84-25563

PALUMBO, J. J.
Visual field perimeter and psychomotor tracking performance measuring apparatus
[AD-D011056] 22 p3596 N84-32775

PALUSKA, A.
Discussion of the design of satellite-laser measurement stations in the eastern Mediterranean under the geological aspect. Contribution to the earthquake prediction research by the Wegener Group and to NASA's Crustal Dynamics Project
[NASA-TM-77412] 14 p2175 N84-24031

PALUTIKOF, J. P.
Seasonal climate scenarios for Europe and North America in a high-CO2, warmer world
[DOE/EV-10098/5] 23 p3801 N84-34104

PALUZZI, P. R.
Application of computer image processing to underwater surveys
[AD-P003122] 16 p2533 N84-26263

PAMIDI, P. R.
A new method for generating and maintaining rigid formats in NASTRAN 06 p0860 N84-15605
The design and usage of the new data management features in NASTRAN 22 p3609 N84-32866
COSMIC/NASTRAN on the Cray computer systems 22 p3609 N84-32868

PAMIDIMUKKALA, K. M.
Ultraviolet OH emissions in H2-air diffusion flames 13 p1942 N84-22629

PAMTELEEVA, N. V.
Heating and melting low-melting ferroalloys and hardeners in molten steel
[BLL-M-35219-(5828.4)] 01 p0040 N84-10256

PAN-CHIN, C.
Diffusion of particulate matter and wind speed profile in planetary boundary layer
[AD-A135961] 09 p1345 N84-18790

PAN, C. H. T.
Interactive mechanisms of sliding-surface bearings
[AD-A133127] 06 p0852 N84-15556

PAN, H.
A boundary layer parameterization for a general model
[AD-A144224] 24 p3915 N84-34791

PAN, J.
A study of plastic flow localization and other instability phenomena in rate-sensitive ductile solids 02 p0230 N84-11510

PAN, J. J.
Nonlinear inverse methods applied to interpreting gravity anomalies produced by multi-interfaced geologic bodies 21 p3440 N84-31822

PAN, T. T.
Computation of compressible flows using finite elements and optimization techniques 05 p0678 N84-14456

PAN, X. C.
Optimal design of rotating disk with temperature gradient 15 p2313 N84-24877

PANAGIA, N.
An atlas of UV spectra of supernovae
[ESA-SP-1046] 15 p2424 N84-25563
Supernovae 24 p3970 N84-35138

PANAMAREV, V. A.
Free bulging of round diaphragm exposed to uniform pressure in state of creep
[BLL-M-35680-(5828.4)] 22 p3608 N84-32861

PANASYUK, V. M.
Protective plasma envelope
[DE84-013316] 21 p3502 N84-32194
Probing a plasma with high-energy beams of atoms using threshold detectors
[DE84-013360] 21 p3502 N84-32195

PANASYUK, V. V.
Dependence of rate of growth in aqueous corrosive medium on electrochemical conditions at tip of crack 24 p3871 N84-34530

PANAYOTOU, N. F.
Design and use of nonstandard tensile specimens for irradiated materials testing
[DE84-001468] 06 p0806 N84-15254

PANCHAL, C. B.
Heat transfer with phase change in plate-fin heat exchangers
[DE84-006405] 22 p3596 N84-32771

PANCHAPAKESAN, S.
On the distribution of the studentized maximum of equally correlated normal random variables
[AD-A131529] 02 p0282 N84-11848
An estimation problem relating to subset selection for normal populations
[AD-A133387] 06 p0904 N84-15870
Subset selection procedures: A review and an assessment
[AD-A140266] 16 p2551 N84-26368

PANCHENKO, V. Y.
Unbalanced infrared radiation and natural laser effect in atmospheres of Venus and Mars 19 p2975 N84-28858

PANDA, P.
Publications of the JPL Solar Thermal Power Systems Project, 1976 to 1983
[NASA-CR-173464] 12 p1842 N84-22011

PANDE, K.
Dynamics and control of flexible orbiting systems 14 p2245 N84-24481

PANDEY, A. K.
Finite element thermal-structural analysis of cable-stiffened space structures
[NASA-CR-173709] 18 p2852 N84-28108

PANDIT, S. M.
Stochastic modeling of EDM with a view to off-line optimization
[PB84-162296] 17 p2639 N84-26885

PANDOLF, K. B.
Aerobic fitness and the hypohydration response to exercise-heat stress
[AD-A132263] 05 p0713 N84-14669
Differentiated ratings of perceived exertion and selected physiological responses during prolonged upper and lower body exercise
[AD-A134086] 06 p0887 N84-15769
Heat exchange during upper and lower body exercise
[AD-A136015] 10 p1548 N84-20146
Influence of hydration level and body fluids on exercise performance in the heat
[AD-A139284] 15 p2380 N84-25281
Influence of heat stress and acclimation on maximal aerobic power
[AD-A142329] 19 p3066 N84-29453
Upper body exercise performance: Comparison between women and men
[AD-A142330] 19 p3066 N84-29454
Upper to lower body muscular strength and endurance ratios for women and men
[AD-A143821] 23 p3811 N84-34168

PANG, J.
Linear complementarity problems solvable by an efficient polynomially bounded pivoting algorithm
[AD-A136405] 09 p1374 N84-18977

PANG, J. S.
More results on the convergence of iterative methods for the symmetric linear complementarity problem
[AD-A132663] 05 p0738 N84-14846

PANG, S.
Performance evaluation of the JPL interim digital SAR processor 07 p0989 N84-16407

PANG, S. S.
Energy absorption by polymer crazing
[NASA-CR-173275] 07 p0978 N84-16335

PANIAN, T. F.
An analysis of the annual temperature wave propagating through an alluvial soil
[DEL83-014883] 02 p0219 N84-11434

PANIN, V. A.
Nonlinear dynamics of resonance-type instability in high-density electron beam: Analytical solution 21 p3483 N84-32074

PANITZ, J. K. G.
An evaluation of the effect of cell voltage and termination current on barrier anodic Al2O3 film formation
[DE83-013961] 02 p0195 N84-11266
Observations of damage and transport of hydrogen in ion bombarded polycrystalline silicon
[DE84-008035] 14 p2243 N84-24466

PANKOVA, A. S.
Morphometric study of rat adrenal medulla during long-term hypokinesia 02 p0260 N84-11705

PANKRATOVA, N. D.
Solving statics problems of thick-walled cylindrical shells with loose contact between layers 13 p1973 N84-22805

PANNANTONI, R. F.
A new eigenfunction expansion and its application to waveguide acoustics
[AD-A138946] 13 p2040 N84-23236

PANOFSKY, T.
An operating system and memory switch for the S-1 computer
[DE84-013094] 20 p3267 N84-30731

PANOFSKY, W. K. H.
From accelerators to storage rings to ?
[DE83-011849] 03 p0434 N84-12842
Particel substructure. A common theme of discovery in this century
[DE84-006776] 19 p3113 N84-29782
Future of high energy physics
[DE84-013513] 22 p3654 N84-33165

PANOS, N.
Investigation of intrinsically error-free programs
[AD-A132934] 05 p0730 N84-14791

PANOSKO, G. Y.
Plane motion of solid body on rough surface of annular bearing rotating about its axis perpendicular to plane of motion 13 p1973 N84-22801

PANOV, V. P.
Method of production of nitrophosphates
[CSIR-TRANS-1689] 01 p0036 N84-10225

PANOV, V. V.
Estimation of parameters of spray clouds
[BLL-TRANS-1571-(9022.552)] 08 p1190 N84-17752
Some parameters characterising the icing of ships from spray
[BLL-MO-TRANS-1570-(9022.552)] 08 p1190 N84-17753

PANTANI, L.
The Istituto di Ricerca sulle Onde Elettromagnetiche (IROE)-lidar remote sensing of the environment 03 p0396 N84-12590

PANTEL, E. G.
The aerospace industry in Germany: Today and tomorrow 12 p1764 N84-21501

PANTELL, R. H.
Planar channeling radiation from relativistic positrons and electrons in LIF
[DE84-002800] 07 p1081 N84-17033

PANTOS, E.
Topographic EXAFS
[AD-A137116] 12 p1915 N84-22475

PANYAM, R. R.
Combustion at the interface of an oxidizer-fuel slab system 06 p0800 N84-15215
The two-slab burning problem
[AD-A139818] 15 p2287 N84-24719

Combustion of ammonium perchlorate-polymer sandwiches
[AD-A139673] 15 p2302 N84-24814

PANYUKOV, B.
Civil aviation officials review ministerial concerns, goals 23 p3687 N84-33369

PANYYSHKIN, A. V.
Some parameters characterising the icing of ships from spray
[BLL-MO-TRANS-1570-(9022.552)] 08 p1190 N84-17753

PAOLINO, D. A.
Interannual variability of Indian monsoon rainfall 12 p1855 N84-22081

PAOLONI, A.
Speaker recognition: Example of execution of a phonic test
[FUB-55-1982] 10 p1483 N84-19690

PAONESSA, A.
Theoretical and experimental results of dynamic behavior of periodically stiffened cylindrical shell 18 p2794 N84-27731
Experimental modal analysis of a partial full-scale fuselage of turboprop aircraft 18 p2794 N84-27732

PAONESSA, M. T.
Analysis of Voyager observations of ion and electron phase space densities in the magnetospheres of Jupiter and Saturn 16 p2580 N84-26548

PAPA, F.
Model of the behavior of the human visual system for the perception of contour elements
[FUB-44-1982] 05 p0714 N84-14677
The possibility of reduction of the subjective redundance of image signals with particular reference to contour coding
[FUB-43-1982] 05 p0748 N84-14911

PAPA, R. J.
Further considerations in models of rough surface scattering
[AD-A130424] 01 p0146 N84-10962

PAPACCIA, M.
Heat pipes for the L-SAT communications module radiators 10 p1440 N84-19405

PAPADIMITRIOU, P.
Heat Transfer Coefficient in Containments (HTCC): A heat transfer model for gas-vapor mixtures
[BMI-1983-022] 16 p2485 N84-25939

PAPADOPOULOS, D.
Wireless communication systems
[AD-A135830] 09 p1300 N84-18496

PAPADOPOULOS, K.
Review of ionospheric VLF and ELF generation 05 p0634 N84-14174
Suprathermal electron tail distributions in a space-simulation beam plasma discharge 05 p0638 N84-14199
The space shuttle environment as evidence of critical ionization phenomena 05 p0639 N84-14204
Active ionospheric generation on ELF/VLF waves
[AD-A139317] 14 p2176 N84-24034
Neutral gas plasma interactions and critical ionization velocity phenomena
[AD-A139233] 14 p2228 N84-24360
On the plasma physics on the beam plasma discharge
[AD-A139265] 14 p2228 N84-24361
Scaling of the beam plasma discharge for low magnetic fields
[AD-A139415] 14 p2229 N84-24363
Solar Terrestrial Physics: Present and Future
[NASA-RP-1120] 23 p3836 N84-34332

PAPAILIOU, K.
Boundary layer development on rotating bodies of revolution 07 p0957 N84-16204

PAPAMASTORAKIS, I.
ISEE observations of magnetopause reconnection: The energy balance 08 p1185 N84-17720

PAPANICOLAOU, G. C.
Annual report on grant AFOSR-80-0228
[AD-A140512] 16 p2550 N84-26365

PAPANTONI-KAZAKOS, P.
Robust linear filtering for multivariable stationary time series
[AD-A131209] 02 p0281 N84-11844
Robust prediction and interpolation for Vector stationary processes
[AD-A130973] 02 p0284 N84-11859
An algorithm for detecting a change in stochastic process
[AD-A134104] 06 p0900 N84-15842
Robust procedures for communication data
[AD-A136540] 09 p1299 N84-18493

PAPATHAKOS, L. C.
Simultaneous cabin and ambient ozone measurements on two Boeing 747 airplanes. Volume 2: January to October 1978
[NASA-TM-81733] 12 p1917 N84-22488

PAPAVA, Z.
Scientific-production complexes organized in Georgia 01 p0056 N84-10362

PAPAYAN, G. V.
Microspectrophotometer for crystal analysis by absorption reflectometry 20 p3289 N84-30883

PAPE, D. R.
A hybrid silicon membrane spatial light modulator for optical information processing 12 p1905 N84-22408

PAPE, H. G.
Experimental investigation concerning the feasibility of electrostatic precipitators at high pressures and temperatures
[BMFT-FB-T-83-201] 08 p1183 N84-17704

PAPE, R.
Electrophoretic recording of color images with high quality
[BMFT-FB-T-83-319] 12 p1794 N84-21702

PAPELL, S. S.
Vortex generating flow passage design for increased film cooling effectiveness
[NASA-CASE-LEW-14039-1] 11 p1651 N84-20782
Vortex generating flow passage design for increased film-cooling effectiveness and surface coverage
[NASA-TM-83617] 13 p1989 N84-22909

PAPIR, Y. S.
Electroactive heterocyclic polymers
[DE83-013592] 02 p0200 N84-11305

PAPKE, A.
E/O (Electro-Optical) augmentation environmental temperature test
[AD-A134296] 07 p1075 N84-16988

PAPOULAR, R.
Measurements in the presence of nonwhite noise 09 p1411 N84-19224

PAPP, D. S.
Ballistic missile defense, space-based weapons, and the defense of the west
[AD-A140260] 16 p2454 N84-25738

PAPP, J. F.
Chromium
[PB84-100882] 08 p1136 N84-17385

PAPPAGALLO, M.
Control of the HP3325 frequency synthesizer by a PDP 11 computer for gravitational experiments
[IFSI-83-9] 05 p0683 N84-14492

PAPPAS, J. M.
Experimental hydrogen-fueled automotive engine design data-base project, volume 1
[DE83-017023] 02 p0204 N84-11331
Experimental hydrogen-fueled automotive engine design data-base project. Volume 2: Main technical report
[DE83-017025] 02 p0204 N84-11332
Experimental hydrogen-fueled automotive engine design data-base project. Volume 3: Main technical report (appendices)
[DE83-017362] 18 p2848 N84-28086

PAPPERT, R. A.
ELF/VLF (Extremely Low Frequency/Very Low Frequency) long path pulse program for antennas of arbitrary elevation and orientation
[AD-A133876] 05 p0667 N84-14388

PAPROTNY, G. B.
A generator of recursive descent parsers for LL(k) languages
[AD-A138061] 12 p1880 N84-22253

PAPUSHIN, K. G.
Evaluation of characteristics of system of space-time processing of signals by statistical simulation method 17 p2633 N84-26845

PAQUETTE, E. G.
Sonic levitation apparatus
[NASA-CASE-MFS-25828-1] 18 p2928 N84-28568

PAQUETTE, R.
Stratigraphy of the crater Copernicus 15 p2426 N84-25571

PARABONI, A.
Attenuation data bank in the project COST 205: Generation, control, and preliminary analysis
[FUB-2-1983] 10 p1483 N84-19693

PARADA, L. E. M.
The INPE handouts to the 6th LANDSAT Technical Working Group (LTWG) Meeting
[E84-10176] 21 p3427 N84-31738

PARADA, N. D. J.
The effects of solar incidence angle over digital processing of LANDSAT data
[E84-10007] 01 p0099 N84-10641
Geologic survey in the south-central region of Mato Grosso
[E84-10039] 04 p0551 N84-13632
Application of remote sensing to hydrological problems and floods
[E84-10046] 04 p0553 N84-13639
Rise in the frequency of cloud cover in LANDSAT data for the period 1973 to 1981
[E84-10047] 04 p0553 N84-13640
Urban land use of the Sao Paulo metropolitan area by automatic analysis of LANDSAT data
[E84-10069] 07 p1020 N84-16616
Multiseasonal and geobotanical approach in remote detection of greisenization areas in the Serra da Pedra Branca Granite, Goias State, Brazil
[E84-10070] 07 p1020 N84-16617
CNPq/INPE LANDSAT system
[E84-10071] 07 p1020 N84-16618
Utilization of digital LANDSAT imagery for the study of granitoid bodies in Rondonia: Case example of the Pedra Branca massif
[E84-10120] 14 p2167 N84-23979
Evaluation of the effects of the seasonal variation of solar elevation angle and azimuth on the processes of digital filtering and thematic classification of relief units
[E84-10121] 14 p2167 N84-23980
Irrigated rice area estimation using remote sensing techniques: Project's proposal and preliminary results
[E84-10131] 16 p2506 N84-26081
Principal components technique analysis for vegetation and land use discrimination
[E84-10135] 16 p2506 N84-26083
Sampling system for wheat (Triticum aestivum L) area estimation using digital LANDSAT MSS data and aerial photographs
[E84-10139] 16 p2506 N84-26087
Evaluation of solar angle variation over digital processing of LANDSAT imagery
[E84-10140] 16 p2507 N84-26088
Evaluation of entropy and JM-distance criterions as features selection methods using spectral and spatial features derived from LANDSAT images
[E84-10141] 16 p2507 N84-26089
Application of LANDSAT data to the study of urban development in Brasilia
[E84-10142] 16 p2507 N84-26090
An integrated software system for geometric correction of LANDSAT MSS imagery
[E84-10143] 16 p2507 N84-26091
Forest inventory using multistage sampling with probability proportional to size
[E84-10144] 16 p2507 N84-26092
Multiseasonal variables in digital image enhancements for geological applications
[E84-10145] 16 p2508 N84-26093
Field data observed during the geological excursion in the west-central region of the Sul-Riogrande Shield
[E84-10146] 16 p2508 N84-26094
The use of an image registration technique in the urban growth monitoring
[E84-10147] 16 p2508 N84-26095
Evaluation of SIR-A (Shuttle Imaging Radar) images from the Tres Marias region (Minas Gerais State, Brazil) using derived spatial features and registration with MSS-LANDSAT images
[E84-10148] 16 p2508 N84-26096
Identification and estimation of the area planted with irrigated rice based on the visual interpretation of LANDSAT MSS data
[E84-10164] 17 p2710 N84-27256
A sampling system for estimating the cultivation of wheat (Triticum aestivum L) from LANDSAT data
[E84-10165] 17 p2711 N84-27257

PARADELLA, W. R.
Methodological approach in lithological discrimination by digital processing: A case study in the Serra do Ramalho, state of Bahia
[INPE-3108-PRE/507] 16 p2509 N84-26101

PARADISO, M. A.
Correlation of afferent activity and binocular receptive field properties
[AD-A143087] 21 p3457 N84-31938

PARAMADILOK, O.
Finite element analysis of structure subjected to nonstationary load fields with contact interfaces 13 p2002 N84-22993

PARAMONOVA, T. N.
Apparatus based on holographic focusing diffraction grating for measurement of diffraction efficiency of three-dimensional image holograms 21 p3482 N84-32068

PARARAS, J.
Development of real-time ATC simulation facility 02 p0168 N84-11106

PARASHIN, L. B.
Effect of dihydroergotamine on human circulation during orthostatic tests 20 p3253 N84-30646

PARASIE, Y.
The effect of water on the dielectric performance of a cable
[BLL-OA-TRANS-2634-(6196.3)] 04 p0524 N84-13447

PARASURAMAN, R.
Auditory induction of discrete tones in signal detection tasks
[AD-A135502] 08 p1227 N84-18019
Pattern-directed attention in uncertain frequency detection
[AD-A135905] 10 p1547 N84-20142
PARCELIER, M.
The effect of the space environment on composite materials (A0138-9) 15 p2272 N84-24641
PARDINI, S.
Introduction to multiradar tracking systems 17 p2653 N84-26964
PARDO, R.
Search for doubly-charged negative ions via accelerator mass spectrometry
[DE83-014321] 01 p0038 N84-10243
PARDON, M.
Trends in microprocessor technology outlined 24 p3943 N84-34964
PAREEK, P. N.
Absolute photoionization cross sections of atomic oxygen
[NASA-CR-173873] 21 p3492 N84-32130
PARESCE, F.
On detecting diffuse ultraviolet radiation of cosmological origin
[PREPRINT-10] 23 p3840 N84-34362
PARETZKIN, B.
Standard X-ray diffraction power patterns: Section 20 - data for 71 substances
[PB84-155191] 14 p2244 N84-24475
PARFENOV, A. A.
Aspects of damping of sonic vibrations due to impact loading in plate steels
[BLL-M-35295-(5828.4)] 06 p0908 N84-15895
PARFENOV, V.
Designers voice complaints, suggestions regarding their work 01 p0055 N84-10354
PARIKH, P.
Atomization and combustion performance of antimisting kerosene and jet fuel
[NASA-CR-174507] 07 p0980 N84-16353
Antimisting fuel breakup and flammability
[NASA-CR-174508] 07 p0981 N84-16354
PARIKH, P. C.
A numerical study of the controlled flow tunnel for a high lift model
[NASA-CR-166572] 16 p2438 N84-25642
A numerical study of the controlled flow tunnel for a high lift model 16 p2452 N84-25721
PARIS, D. T.
Two-dimensional signal processing and storage and theory and applications of electromagnetic measurements
[AD-A144266] 24 p3898 N84-34680
PARIS, G.
Concerted effort for nationwide computer literacy 12 p1897 N84-22357
PARIS, J. F.
Accomplishments of the NASA Johnson Space Center portion of the soil moisture project in fiscal year 1981
[E84-10090] 10 p1521 N84-19961
Effects of vegetation canopy structure on microwave scattering 12 p1832 N84-21942
A microwave systems approach to measuring root zone soil moisture
[E84-10114] 13 p2005 N84-23007
PARISCH, H.
A study of the different solution methods for nonlinear problems
[ISD-304] 15 p2396 N84-25376
PARISH, S.
DCP (Distributed software engineering control process): Experience in bootstrapping an Ada (trademark) environment
[AD-P003424] 20 p3270 N84-30756
PARISI, G.
Staggered fermions and rotation-gauge invariance
[PREPRINT-357] 20 p3297 N84-30937
Some negative results for avoiding lattice fermionic doubling
[PREPRINT-358] 20 p3297 N84-30938
PARISI, M.
Interplanetary perturbations associated with type 4 solar flares
[IFSI-82-6] 03 p0475 N84-13129
The behavior of the cosmic ray equatorial anisotropy inside fast solar wind streams ejected by coronal holes
[IFSI-82-16] 03 p0475 N84-13130
PARISI, V. M.
Development of a computer aided design package for control system design and analysis for use on a personal computer
[AD-A138065] 18 p2920 N84-28520
PARK, A. B.
Deforestation measured by LANDSAT: Steps toward a method
[DE83-016645] 04 p0554 N84-13652
PARK, B.
Failure processes in elastomers at or near a rigid spherical inclusion
[AD-A132060] 03 p0356 N84-12314
PARK, D.
The fairness problem and nondeterministic computing networks 08 p1209 N84-17883
PARK, G. B., JR.
Seeds in space experiment (P0004-1) 15 p2277 N84-24675
PARK, H.
Planar channeling radiation from relativistic positrons and electrons in LiF
[DE84-002800] 07 p1081 N84-17033
PARK, H. Y.
Sound velocity anisotropy in cubic crystals
[NASA-CR-175344] 07 p1079 N84-17016
PARK, J. E.
Numerical studies of the isotope distribution in a gas centrifuge using a tapered, double-parabolic axial flow
[DE83-013011] 01 p0081 N84-10528
A gas-flow tracing technique applicable to rotating systems boundary layer on a rotating disk
[DE83-012761] 03 p0372 N84-12425
Ekman boundary conditions for numerical models of centrifuge flows
[DE84-013576] 22 p3595 N84-32765
PARK, J. J.
Coated flexible laminate and method of its production
[NASA-CASE-GSC-12913-1] 15 p2301 N84-24807
Outgassing data for selecting spacecraft materials
[NASA-RP-1124] 17 p2617 N84-26751
PARK, J. R.
Bibliography of the literature on optical storage technology
[PB84-150184] 14 p2204 N84-24227
PARK, J. S.
Fatigue crack propagation in Ti-Mn alloys: The role of the Bauschinger effect
[AD-A136036] 09 p1283 N84-18383
PARK, J. T.
Revision and experimental verification of the hazard assessment computer system models for spreading, movement, dissolution, and dissipation of insoluble chemicals spilled onto water, volume 1
[AD-A140635] 17 p2724 N84-27337
PARK, J. Y.
Evaluation of stainless steel pipe cracking: Causes and fixes
[DE84-003459] 09 p1285 N84-18391
Intergranular crack propagation rates in sensitized Type 304 stainless steel in an oxygenated water environment
[DE84-005311] 11 p1635 N84-20688
PARK, K.
Kinetic-elastic approach for time-dependent rheological data on slurry fuels and polymers
[AD-A141210] 18 p2821 N84-27911
PARK, M. M.
WAZP observations during MILDEX October-November 1983
[AD-A141048] 18 p2893 N84-28358
PARK, R. H.
Optical computing research
[AD-A143994] 23 p3825 N84-34258
PARK, S. K.
Image-plane processing for improved computer vision 12 p1904 N84-22404
PARK, S. O.
Laser diagnostic development and measurement and modeling of turbulent flowfields of jets and wakes. Part 2: Numerical predictions of isothermal flowfields in a ducted centerbody combustor
[AD-A134692] 08 p1159 N84-17543
PARK, S. Y.
Gyrotron backward-wave oscillator
[AD-A140908] 17 p2664 N84-26993
PARK, T. A.
Microcomputer network for Computerized Adaptive Testing (CAT)
[AD-A140256] 16 p2546 N84-26341
Microcomputer network for Computerized Adaptive Testing (CAT): Program listing. Supplement
[AD-A141569] 19 p3077 N84-29521
PARK, W.
Magnetic fluctuations in high-beta sub p Tokamak plasmas
[DE83-015872] 05 p0751 N84-14929
PARK, W. J.
Sharp PC-1500 pocket computer solutions to composite materials formulas
[AD-A130421] 01 p0031 N84-10193
Composite laminate weight optimization on the sharp PC-1500 pocket computer
[AD-A133348] 07 p0968 N84-16272
Sharp PC-1500 pocket computer solutions to statistical data analysis of composite materials or metals
[AD-A135086] 09 p1276 N84-18334
Panasonic HR-1800 hand-held computer solutions to composite materials formulas
[AD-A139798] 15 p2391 N84-25352
PARK, W. T.
Artificial Intelligence-Robotics applications to Navy aircraft maintenance
[AD-A143219] 22 p3529 N84-32345
PARK, Y. W.
New fabrication process for a tubular LiAl/FeS cell battery
[DE83-014305] 01 p0074 N84-10488
PARKE, M. E.
Report of the NASA workshop on tidal research
[NASA-CR-173204] 07 p1040 N84-16744
PARKE, S. J.
Excitation of simple atoms by slow magnetic monopoles
[DE84-006209] 12 p1903 N84-22393
PARKER, A. C.
A representation for shape based on peaks and ridges in the difference of low-pass transform
[AD-A133299] 06 p0901 N84-15849
Automated synthesis of digital hardware modules: Simulation and verification of interconnections
[AD-A135298] 08 p1210 N84-17889
A data structure for VLSI synthesis and verification
[AD-A137880] 11 p1647 N84-20769
PARKER, B. M.
An evaluation of the Boeing wedge test for the assessment of CFRP surface pretreatment
[AD-A144050] 23 p3711 N84-33526
PARKER, C. A.
Irradiation response in titanium-modified austenitic stainless steels prepared by rapid-solidification processing. Part 3. A model for the effect of titanium addition
[DE84-001296] 04 p0500 N84-13281
PARKER, E.
Computer science and technology: Microcomputer: A review of federal agency experiences
[PB83-238972] 02 p0271 N84-11772
PARKER, E. N.
Direct coronal heating from dissipation of magnetic field 03 p0466 N84-13069
PARKER, G. R.
Application of the kinetic energy calculation as an aid in mode identification 10 p1511 N84-19888
PARKER, H. S.
Standard X-ray diffraction power patterns: Section 20 - data for 71 substances
[PB84-155191] 14 p2244 N84-24475
PARKER, J.
Development of an all-metal thick film cost effective metallization system for solar cells
[NASA-CR-173760] 19 p3049 N84-29350
PARKER, J. A.
Optimization of aircraft seat cushion fire blocking layers
[NASA-TM-85430] 01 p0006 N84-10037
Elastomer-modified phosphorus-containing imide resins
[NASA-CASE-ARC-11400-1] 05 p0657 N84-14322
Process for preparing phthalocyanine polymers
[NASA-CASE-ARC-11511-1] 07 p0966 N84-16259
Amine terminated bisaspartimides, process for preparation thereof, and polymers thereof
[NASA-CASE-ARC-11421-1] 07 p0978 N84-16340
Vinyl styrylpyridines and their copolymerization with bismaleimide resins
[NASA-CASE-ARC-11429-1-CU] 07 p0979 N84-16341
Fire and heat resistant laminating resins based on maleimido substituted aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-1] 13 p1953 N84-22697
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-3] 13 p1961 N84-22745
Metal phthalocyanine polymers
[NASA-CASE-ARC-11405-1] 18 p2817 N84-27884
Fire blocking systems for aircraft seat cushions
[NASA-CASE-ARC-11423-1] 23 p3691 N84-33394
PARKER, J. F.
A flight investigation of simulated data link communications during single-pilot IFR flight 03 p0313 N84-12046
PARKER, K.
Achievement of reliability by thermal vacuum testing of spacecraft mechanisms 09 p1296 N84-18472
The importance of thermal-vacuum testing in achieving high reliability of spacecraft mechanisms 15 p2347 N84-25085

PARKER, L. E.
Nevada test site seismic-telemetry measurements
[DE84-000447] 04 p0564 N84-13719
PARKER, L. W.
Contributions to satellite sheath and wake modeling
08 p1117 N84-17266
Impact ionization effects on Pioneer Venus Orbiter
08 p1118 N84-17270
A model of electrostatic charging and sheath structure of GIOTTO near Halley's comet
08 p1118 N84-17274
Sheath shapes: A 3-D generalization of the Child-Langmuir sheath model for large high-voltage space structures in dense plasmas
[AD-P002124] 16 p2525 N84-26210
PARKER, M. A.
A range of combined error corection and recording channel code schemes
[BBC-RD-1983/16] 11 p1642 N84-20732
PARKER, N.
New developments in cylinder testing
[DE84-002782] 15 p2337 N84-25033
PARKER, N. L.
Fabry-Perot velocimetry techniques: Is Doppler shift affected by surface-normal direction?
[DE83-015902] 02 p0224 N84-11472
PARKER, R. A.
A standard organization for specifying abstract interfaces
[AD-A143787] 23 p3815 N84-34194
PARKER, R. J.
Comparison of predicted and experimental thermal performance of angular-contact ball bearings
[NASA-TP-2275] 09 p1325 N84-18654
PARKER, R. K.
Design and operation of a collective millimeter-wave free-electron laser
[AD-A131626] 01 p0087 N84-10568
PARKER, W. L.
Raman spectroscopic study of acetylene on supported rhodium catalysts
[AD-A144099] 23 p3714 N84-33544
PARKER, W. R.
Sedimentation studies relevant to low-level radioactive effluent dispersal in the Irish Sea. Part 3: An evaluation of possible mechanisms for the incorporation of radionuclides into marine sediments
[IOS-178] 19 p3062 N84-29431
PARKERSON, V.
Development of a non-volatile programmable digital to analog converter subsystem for PCM (Pulse-Code Modification) telemetry systems
[AD-A137878] 11 p1622 N84-20620
PARKIN, C. W.
Determination of propped fracture length by detection of injected magnetic material with surface superconducting magnetometers
[PB84-181320] 17 p2696 N84-27176
PARKINSON, C.
A comparison of numerical results of Arctic Sea ice modeling with satellite images 14 p2165 N84-23969
PARKINSON, C. L.
Antartic sea ice, 1973 - 1976: Satellite passive-microwave observations
[NASA-SP-459] 01 p0110 N84-10718
PARKINSON, D.
Digital control loading: A microprocessor-based approach
[AD-P003483] 21 p3512 N84-32250
PARKINSON, W. C.
The 83-inch cyclotron research program
[DE83-015827] 03 p0435 N84-12852
PARKISON, S. C.
Age effects on active duty Army MMPI (Minnesota Multiphasic Personality Inventory) profiles
[AD-P003343] 18 p2911 N84-28464
PARKS, D. E.
Mechanisms that limit potentials on ionospheric satellites
[AD-P002118] 16 p2524 N84-26204
Polar code development
[AD-P002122] 16 p2524 N84-26208
PARKS, E. J.
Characterization of organometallic polymers by chromatographic methods and nuclear magnetic resonance, part 2
[PB84-183599] 20 p3165 N84-30100
PARKS, P. B.
Advanced ICRF launchers for heating and current drive in large Tokamaks
[DE84-009092] 19 p3108 N84-29750
PARKS, R. D.
Photoemission studies of mixed valent systems
[DE84-010797] 20 p3310 N84-31020
PARKS, R. E.
Innovative research in the design and operation of large telescopes for space: Aspects of giant telescopes in space 17 p2765 N84-27560
PARKS, R. W.
A preliminary study of solar powdered aircraft and associated power trains
[NASA-CR-3699] 04 p0486 N84-13194
PARKS, T. D.
Water resources data for Oregon, water year 1982. Volume 1: Eastern Oregon
[PB84-164326] 14 p2171 N84-24005
Water resources data for Oregon, water year 1982. Volume 2: Western Oregon
[PB84-164334] 14 p2171 N84-24006
PARL, S.
Theoretical analysis of microwave propagation
[AD-A143762] 23 p3731 N84-33647
PARL, S. A.
Adaptive techniques for troposcatter
[AD-A142226] 19 p3008 N84-29066
PARLETT, B. N.
Accurate computation of divided differences of the exponential function
[AD-A130306] 01 p0132 N84-10865
The use of refined error bound when updating eigenvalues of tridiagonals
[AD-A134163] 07 p1061 N84-16879
Eigenvector matrices of symmetric tridiagonals
[AD-A134172] 07 p1061 N84-16880
State of the art in eigenvalue computations
09 p1401 N84-19154
PARMEGGIANI, A.
The use of matrix transducers in medium thickness welding inspection
[CISE-2075] 06 p0855 N84-15572
PARMENOV-TRIFILOV, B. I.
Detection of latent atherosclerotic stenosing lesions to great vessels of the head in flight personnel
07 p1046 N84-16787
Investigation of the microcirculation of the conjunctiva in airmen with the initial symptoms of cerebral atherosclerosis 06 p1199 N84-17818
PARMENTER, C. M.
Georges Bank monitoring program: Analysis of trace metals in bottom sediments during the second year of monitoring
[PB84-169465] 16 p2534 N84-26269
PARMENTIER, E. M.
Theoretical aspects of photoclinometric terrain profiling on the Galilean satellites 13 p2074 N84-23441
PARNAS, D. L.
Interface specifications for the SCR (A-7E) application data types module
[AD-A132717] 05 p0729 N84-14785
A standard organization for specifying abstract interfaces
[AD-A143787] 23 p3815 N84-34194
PARNELL, T. A.
Linear energy transfer spectrum measurement experiment (P0006) 15 p2276 N84-24665
PAROBEK, D. M.
Laser velocimeter developments for surveying thin boundary layers in a Mach 6 high Reynolds number flow
[AD-A130387] 01 p0083 N84-10541
PARR, A. C.
Triply differential studies of atomic and molecular photoionization using synchrotron radiation
[AD-A142834] 21 p3493 N84-32133
PARR, A. D.
Design, performance, and analysis of an aquifer thermal-energy-storage experiment using the doublet-well configuration
[DE84-001811] 10 p1529 N84-20019
PARR, D. M.
Condensed phase temperature profiles in deflagrating HMX 13 p1947 N84-22657
PARR, R. A.
A study of the solidification parameters influencing structures and properties in MAR-M246(Hf)
[NASA-TM-82569] 11 p1633 N84-20675
High-pressure hydrogen testing of single crystal superalloys for advanced rocket engine turbopump turbine blades
[NASA-TM-86464] 23 p3717 N84-33563
PARR, R. G.
An assessment of the reliability of edge connectors
[ERA-82-22] 13 p1985 N84-22888
PARR, T. P.
Condensed phase temperature profiles in deflagrating HMX 13 p1947 N84-22657
PARR, W. C.
Minimum distance estimation of mixture model parameters: Asymptotic results and simulation comparisons with maximum likelihood
[AD-A130426] 01 p0136 N84-10889
PARRA, G. T.
Electronic scanning pressure measuring system and transducer package
[NASA-CASE-ARC-11361-1] 13 p1993 N84-22934
PARREIRA, E. M. D. M. F.
Application of LANDSAT data to the study of urban development in Brasilia
[E84-10142] 16 p2507 N84-26090
The use of an image registration technique in the urban growth monitoring
[E84-10147] 16 p2508 N84-26095
PARRIS, T. M.
Understanding and utilization of Thematic Mapper and other remotely sensed data for vegetation monitoring
[E84-10150] 16 p2508 N84-26098
PARRISH, J. R.
Calibration of meteorological measurements made by NOAA (National Oceanic and Atmospheric Administration) WP3D aircraft, 1983
[PB84-127463] 10 p1541 N84-20099
PARRISH, K. A.
Breadboard stellar tracker system test report
[NASA-CR-170973] 08 p1102 N84-17166
PARRISH, R. V.
Effects of motion base and g-seat cueing of simulator pilot performance
[NASA-TP-2247] 09 p1255 N84-18189
PARRUCCI, U.
A digital ferrite phase-shifter for high power S-band operation 06 p0906 N84-15886
PARRY, C. M.
Conceptual design of a hybrid Ge:Ga
[NASA-CR-166605] 24 p3902 N84-34708
PARRY, G.
Non-linear Fabry-Perot transmission in A CdHgTe etalon 14 p2239 N84-24437
PARRY, M. L.
Assessing the impact of climatic change in cold regions
[IIASA-SR-84-1] 19 p3057 N84-29394
PARSHIN, L. B.
Effect of sydnocarb on hemodynamics and redistribution of blood during functional tests following six-hour antiorthostatic hypokinesia 07 p1045 N84-16777
PARSHIN, V. S.
Random signal recognition based on spectral moments 22 p3568 N84-32597
PARSI, E. J.
Reference plant for high temperature electrodialysis desalting of seawater
[PB84-195841] 22 p3549 N84-32471
PARSLOW, N.
An empirical appraisal of defects in composites
01 p0034 N84-10211
PARSONS, E.
Consolidation of DOD bidder's mailing list application
[AD-P002752] 13 p2050 N84-23299
PARSONS, S. B.
Optically-thick, highly-variable plasma in interacting binaries 24 p3980 N84-35211
Egress spectra of the new eclipsing supergiant 22 Vulpeculae 24 p3980 N84-35215
PARSONS, W.
Interactive Signal and Pattern Analysis and Recognition Systems (ISPARS). Users' guide
[AD-A141421] 19 p3075 N84-29514
Program descriptions for Interactive Signal and Pattern Analysis and Recognition System (ISPARS)
[AD-A141575] 19 p3077 N84-29522
PARTAIN, L. D.
High-efficiency solar cells fabricated by vacuum MO-CVD 19 p3047 N84-29329
PARTER, S. V.
Block iterative methods for elliptic finite element equations
[AD-A129150] 01 p0129 N84-10841
Solving elliptic-parabolic problems
[AD-A133726] 05 p0734 N84-14822
Remarks on the flow between two parallel rotating plates
[AD-A141582] 19 p3023 N84-29174
A study of some multi-grid ideas
[AD-A144465] 24 p3951 N84-35021
Iterative methods for elliptic problems and the discovery of Q
[AD-A144483] 24 p3952 N84-35022
PARTIN, J. K.
Real-time attenuation of heated optical fibers in a nuclear reactor
[DE83-015141] 03 p0438 N84-12873
PARTLOW, D. P.
Wide spectrum antireflective coating for laser fusion systems
[DE84-013211] 22 p3601 N84-32814

PARTRIDGE, M.
Application of active and passive suspension techniques to improve high speed ground vehicle performance
[PB83-224576] 01 p0164 N84-11076
PARTRIDGE, M. J.
Integrated testing and maintenance technologies
[AD-A138587] 13 p1925 N84-22528
PARTS, L.
High temperature (1645 deg C, 3000 deg F) surface ignition test apparatus for fluids
[AD-A132658] 05 p0649 N84-14268
PARVATHAM, R.
On a fundamental inequality and the singularities of an analytic function defined by the LC-Dirichletian element
13 p2032 N84-23177
PARYGIN, V. N.
Frequency conversion in photomultiplier during interaction of photoelectron beam and electric field in heterodyne 22 p3568 N84-32599
PARZEN, E.
Time series model identification by estimating information, memory and quantiles
[AD-A131155] 02 p0281 N84-11843
Quantile data analysis of image data
03 p0393 N84-12565
Time series long memory identification and quantile spectral analysis
[AD-A132240] 04 p0590 N84-13900
Informative quantile functions and identification of probability distribution types
[AD-A132723] 05 p0740 N84-14861
Multiple time series modeling and time series theoretic statistical methods
[AD-A141891] 19 p3093 N84-29644
PARZEN, G.
Colliding-beam-accelerator lattice
[DE83-017875] 04 p0614 N84-14050
PAS, I. A.
Exchange of gases and physical work capacity in natives of different geographic regions
20 p3254 N84-30656
PASCALE, L.
On the stick-free longitudinal dynamic stability of a general aviation aircraft equipped with an all-movable horizontal tail 18 p2797 N84-27748
PASCH, R. J.
On the onset of the planetary scale monsoon
11 p1684 N84-20986
PASCHALL, J., III
A three-dimensional transonic, potential flow computer program, its conversion to IBM FORTRAN and utilization
[AD-A140936] 18 p2921 N84-28521
PASCHEN, D. A.
Broadband microstrip matching techniques
[AD-P003506] 21 p3384 N84-31474
PASCHEN, K. W.
DC (Direct-Current) partial-discharge-environmental screening of space TWTs (Traveling Wave Tubes)
[AD-A143230] 22 p3586 N84-32710
PASCHMANN, G.
The Active Magnetospheric Particle Tracer Explorers (AMPTE) program 05 p0641 N84-14216
ISEE observations of magnetopause reconnection: The energy balance 08 p1185 N84-17720
The ISPM solar-flare X-ray and cosmic gamma-ray burst experiment 09 p1262 N84-18238
PASCHOS, E. A.
Weak corrections to the e+e-yields mu+mu-asymmetry
[DO-TH-83-16] 20 p3297 N84-30939
PASCIAK, J. E.
Preconditioned iterative methods for nonselfadjoint or indefinite elliptic boundary value problems
[AD-A140777] 17 p2758 N84-27511
PASCO, W. D.
Development of sintered Si3N4 for high performance thermomechanical applications
[AD-A140795] 17 p2627 N84-26807
PASCU, D.
Observations of faint planetary satellites with a charge-coupled device 19 p3120 N84-29832
PASHININ, P. P.
Waveguide CO2 laser with 7.5 W power rating
21 p3487 N84-32098
PASHINSKII, V. V.
Structural anomaly in composite material
[BLL-M-35170-(5828.4)] 01 p0030 N84-10187
PASHINTSEV, V. T.
The question of optimization of three-dimensional maneuver of orbital apparatus in the atmosphere
[AD-A134753] 08 p1119 N84-17280
PASHKEVICH, A. M.
Features of laser welding of AMg6 alloy
24 p3870 N84-34525
PASIAN, F.
Standard stars: Automatic line identification of IUE high resolution spectra 24 p3981 N84-35225
PASINETTI, L. E.
Application of multivariate analysis to the parameters of parameters of astrophysical objects
09 p1408 N84-19199
Discriminant analysis in astronomy
09 p1411 N84-19223
PASKAL, Y. I.
Attachment for an X-ray diffractometer for studying transformations in materials 24 p3868 N84-34513
PASKAUSKY, D.
Wind and wave summaries for selected U.S. Coast Guard operating areas
[AD-A130647] 01 p0108 N84-10702
PASKO, T. J., JR.
Time-to-corrosion of reinforcing steel in concrete slabs. Volume 5: Calcium nitrite admixture or epoxy-coated reinforcing bars as corrosion protection systems
[PB84-195239] 22 p3565 N84-32578
PASOUR, J. A.
A broadband high power millimeter to centimeter spectrometer
[AD-A131629] 02 p0294 N84-11927
Spectrum analyzer and analysis method for measuring power and wavelength of electromagnetic radiation
[AD-D011044] 19 p3027 N84-29198
In-line, concurrent electromagnetic beam analyzer
[AD-D011040] 19 p3102 N84-29704
PASQUIER, F.
Solid modeling at SNIAS
[SNIAS-832-111-106] 15 p2391 N84-25348
SNIAS's experience and work in the geometric modeling area
[SNIAS-832-111-107] 15 p2391 N84-25349
PASQUINI, G. J.
Active suppression of aeroelastic instabilities on a forward swept wing using a linear optimal regulator
[AD-A144561] 24 p3854 N84-34442
PASS, J. D.
Fatigue behavior of longitudinal transverse stiffener intersection
[PB84-202092] 22 p3612 N84-32887
PASS, N.
Manufacturing cost analysis for photovoltaic concentrator tracking structures
[DE84-006318] 13 p2009 N84-23032
PASSANI, F.
Ergo-ophthalmological aspects of the VDU: Visual strain and the blue light lesion
[DRIC-T-6921] 09 p1361 N84-18893
PASSENHEIM, B. C.
Nuclear-induced lightning aurora experiment
[AD-A131274] 02 p0249 N84-11628
Electron charging and SGEMP (System Generated Electromagnetic Pulse) studies on satellite dielectrics
[AD-A143012] 21 p3353 N84-31268
PASSERON, L.
Overcoming unobservability in 3-axis stabilization of satellites 15 p2267 N84-24610
PASSMAN, S. L.
New approach to the effective stress principle
[DE84-006963] 21 p3401 N84-31574
PASSNER, A.
Advances in GaAs bistable optical devices
14 p2233 N84-24394
PASTOR, A. C.
Investigation of optical fibers for nonlinear optics
[AD-A130656] 01 p0147 N84-10965
Investigation of optical fibers for nonlinear optics
[AD-A143565] 22 p3657 N84-33185
PASTOR, R. C.
Investigation of optical fibers for nonlinear optics
[AD-A130656] 01 p0147 N84-10965
PASTORE, G.
Theory of the interface between a classical plasma and a hard wall
[DE84-701221] 24 p3966 N84-35111
PASTOREK, R. A.
ESD evaluation of radiation-hardened, high-reliability CMOS and MNOS ICs
[DE84-000138] 04 p0529 N84-13481
PASTORI, L.
Application of multivariate analysis to the parameters of parameters of astrophysical objects
09 p1408 N84-19199
Discriminant analysis in astronomy
09 p1411 N84-19223
PASTOROV, A. I.
Dicrepancies in kinematic parameters of earthquakes according to observations by regional and world networks of stations 17 p2702 N84-27213
PASTRANA, G.
Covariant theory with a confined quantum
[DE83-014897] 03 p0435 N84-12850
PASTRNAK, J. W.
Bond graph time simulations using extracted modal parameters from the Nova spaceframe
[DE84-010918] 20 p3273 N84-30779
Dynamic testing of NOVA laser structural systems. The north side of Spaceframe Tower
[DE84-014830] 22 p3602 N84-32816
PASTUKHOV, B. A.
Formation of structure of low-alloy steel inoculated with rare-earth metals and alkaline-earth metals
[BLL-M-35321] 04 p0497 N84-13258
PASTUKHOV, V. V.
Effect of the microclimate on the night sleep and physical fitness of seamen during a cruise in the low latitudes
08 p1198 N84-17813
PASZEK, W.
Synchronous generators with superconductive excitation windings
[AD-A131832] 03 p0366 N84-12382
Unipolar machine with superconductive excitation winding
[AD-A131820] 03 p0366 N84-12383
PATACCIA, M.
Development of a spacecraft infrared test technique as an alternative to solar simulation: First steps on L-SAT thermal model 10 p1439 N84-19398
PATANKAR, S. V.
Computation of three-dimensional flows in ducts of varying cross sections
[AD-A130194] 01 p0078 N84-10509
PATASHINSKIY, A. Z.
Flow structures and their evolution in turbulent shear layer 21 p3486 N84-32091
PATE, B. B.
Diamond surface: Atomic and electronic structure
[DE84-013518] 22 p3665 N84-33234
PATE, J. E.
Common data input-retrieval system
[DE84-010972] 20 p3315 N84-31053
PATEK, P.
Considerations on the dimensioning of decay tanks for liquid radioactive wastes (basic methods and examples)
[OEFZS-4249] 18 p2931 N84-28586
PATEL, B. C.
Method and technique for installing light-weight, fragile, high-temperature fiber insulation
[NASA-CASE-MSC-16934-3] 07 p0966 N84-16262
PATEL, D. R.
Nonadiabatic model wall effects on transonic airfoil performance in a cryogenic wind tunnel
14 p2096 N84-23579
PATEL, N.
A fully vectorized numerical solution of the incompressible Navier-Stokes equations
[NASA-CR-174496] 04 p0531 N84-13491
PATEL, N. M.
Surface and bulk phase separations in block copolymers and their blends
[AD-A140020] 15 p2302 N84-24815
PATEL, N. R.
A fully vectorized numerical solution of the incompressible Navier-Stokes equations
23 p3688 N84-33375
PATEL, P.
Development of molten carbonate fuel cell technology
[DE84-004856] 15 p2364 N84-25183
PATEL, S.
The use of reciprocal polar co-ordinates in passive tracking
[AD-P002906] 13 p1981 N84-22860
PATEL, V.
Shock tube study of the ignition and combustion of aluminum
[AD-A134035] 05 p0661 N84-14345
PATEL, V. C.
Three-dimensional turbulent boundary layer on a body of revolution at incidence
[AD-A135454] 08 p1158 N84-17539
PATERSON, M. S.
Impossibility of distributed consensus with one faulty process
[AD-A132503] 04 p0580 N84-13823
PATHAK, P. H.
Analysis of electromagnetic backscatter from an inlet cavity configuration
[AD-A133626] 05 p0669 N84-14400
PATIL, S. A.
One-sided r-reliable intervals and their associated confidences on the sum of two Continuous/Independent, random variables
[AD-A143387] 22 p3648 N84-33131
PATIN, M.
Orbital propulsion module system configuration study. Volume 1: Executive summary
[S/DT/YA-25-030-VOL-1] 08 p1120 N84-17282

PATON, B.
Stronger union of science and industry demanded
01 p0157 N84-11037
PATON, B. Y.
Welding with alloying and ultrasonic treatment with an ion beam
12 p1786 N84-21652
PATON, N. E.
Gordon Conference on Physical Metallurgy (1983)
[AD-A134034] 05 p0653 N84-14295
PATON, V.
New method and equipment for high-frequency welding of pipe
12 p1786 N84-21651
PATONAY, G.
A portable, microprocessor controlled, multichannel fluorometer for marine analysis
[AD-A130161] 01 p0083 N84-10542
PATRIARCHI, P.
A comprehensive ultraviolet extinction study: Grain model and grain evolution implications
24 p3982 N84-35232
PATRICK, M. G.
Aircraft, ships, spacecraft, nuclear plants and quality
[DE84-013262] 22 p3655 N84-33166
PATRICK, M. L.
A model of asynchronous iterative algorithms for solving large, sparse, linear systems
[NASA-CR-172418] 21 p3469 N84-31988
PATRICK, R. L.
Perspectives on oversight management of software development projects
[AD-A133404] 06 p0933 N84-16064
PATRUSHEV, G. Y.
Intensity fluctuations during specular reflection of light beams in turbulent atmosphere
18 p2823 N84-27922
PATRUSKY, B. E.
On-line traffic monitor
[AD-A131356] 02 p0209 N84-11364
PATTEN, A. B.
Filler bar heating due to stepped tiles in the shuttle orbiter thermal protection system
01 p0024 N84-10155
PATTEN, D.
Revegetation methods for arid areas, revised
[AD-A139068] 14 p2170 N84-23997
PATTERSON, D. R.
Air- versus liquid-based solar-energy systems: A comparison of measured thermal performances
[ANL-83-45] 12 p1838 N84-21978
PATTERSON, G. K.
A synthesized model of the near-wall behavior in turbulent boundary layers
[AD-A137029] 10 p1493 N84-19764
PATTERSON, J. C.
Psychological evaluation of aircrew members
[AD-P003286] 18 p2908 N84-28440
Psychological and biochemical effects of a stress management program
[AD-P003300] 18 p2909 N84-28447
PATTERSON, J. C., JR.
Wingtip vortex propeller
[NASA-CASE-LAR-13019-1] 11 p1602 N84-20495
PATTERSON, J. F.
Psychological research on advanced terrain representation: Formatting the visual material
[AD-A139782] 15 p2382 N84-25288
PATTERSON, J. H., JR.
Development of a microprocessor based audiometer for threshold shift studies
[AD-A142124] 19 p3065 N84-29448
PATTERSON, J. O.
Combined ultraviolet studies of astronomical sources
[NASA-CR-175234] 08 p1242 N84-18121
PATTERSON, M. H.
Metal contacts in semiconductors
[AD-A136109] 09 p1396 N84-19120
PATTERSON, M. J.
Static versus dynamic presentation of visual cues in simulated low level flight
[AD-P003360] 18 p2913 N84-28473
Estimating the number and duration of cognitive processes using the within-task subtractive method
[AD-A144617] 24 p3937 N84-34923
PATTERSON, M. R.
Guidance and actuation systems for an adaptive-suspension vehicle
[AD-A139111] 14 p2155 N84-23910
PATTERSON, R. E.
Study of multi-kilowatt solar arrays for Earth orbit applications
[NASA-CR-170939] 03 p0403 N84-12634
Preliminary concept of a 100-kilowatt miniaturized Cassegrainian concentrator solar array
19 p3047 N84-29332
PATTERSON, R. J.
Application of rapidly solidified superalloys
[AD-A139350] 14 p2127 N84-23755
PATTERSON, S. R.
Precision support of annular optics
[DE83-017473] 04 p0805 N84-13993
PATTERSON, W. G.
Impact and fatigue of graphite/epoxy laminates
15 p2310 N84-24862
PATTERSON, W. J.
Ultra-high molecular weight silphenylene-siloxane polymers
[NASA-TP-2295] 10 p1464 N84-19564
PATTI, P.
Marine Corps ground simulator training needs in the 1985-1995 time frame
[AD-P003465] 21 p3511 N84-32242
PATTINSON, N. P.
The integration of flight and engine control for VSTOL aircraft
03 p0317 N84-12070
PATTON, H. G.
Mechanical construction of the 22 Nova laser
[DE84-005432] 11 p1663 N84-20855
PATTON, J. F.
Effects of acute cold exposure on submaximal endurance performance
[AD-A132581] 05 p0712 N84-14685
Tactical requirements impact on avionics/weapon system design
06 p0768 N84-15036
Maximal power outputs during the Wingate anaerobic test
[AD-A141374] 19 p3065 N84-29444
PATTON, P. C.
Scarp development in the Valles Marineris
13 p2086 N84-23515
PATTON, R. L.
High-resolution solid-state (13)C NMR study of the templating cations in tetrapropylammonium fluoride silicalite: The effect of steric interactions
[DE83-011706] 06 p0925 N84-16013
PATTY, R. R.
An investigation of resonant optoacoustic cells
[PB83-251637] 18 p2929 N84-28572
PATZ, B. W.
CIG distortion correction with delay lines
[AD-D011025] 19 p3079 N84-29537
PATZKE, K.
Investigations of mechanical properties of high strength steels and their suitability for glass lining
[BMFT-FB-T-84-076] 21 p3368 N84-31370
PAUL, A.
High gain free electron laser at ETA
[DE84-002001] 05 p0686 N84-14512
PAUL, A. K.
F-region variability and HF-propagation
06 p0869 N84-15658
PAUL, B.
Automated dynamic analysis of mechanisms with flexible links
15 p2311 N84-24870
Non-Hertzian rolling contact with longitudinal creepage
15 p2315 N84-24894
PAUL, D. B.
Interactions between F-111 fuselage fuel tank sealants. Part 1: Characterisation of polyester sealants and their hydrolytic degradation products
[MRL-R-657-PT-1] 16 p2470 N84-25828
The Lincoln low-rate vocoder: A 1200/2400 bps LPC-10 voice terminal
[AD-A141291] 18 p2829 N84-27963
PAUL, G. D., JR.
Corrosion behavior of ion plated films
17 p2621 N84-26777
PAUL, J.
Analysis of the double overlap fatigue specimen
[ARL-STRUC-REPT-402] 23 p3760 N84-33833
PAUL, J. H.
The biochemistry and physiology of bacterial adhesion to surfaces
[AD-A138271] 13 p2019 N84-23094
PAUL, L. S.
A study of precipitation occurrence using visual and infrared satellite data
[AD-A141012] 18 p2889 N84-28338
PAUL, M. P.
Theoretical predictions for VLF radio propagation
[AD-A133168] 06 p0823 N84-15364
PAUL, R. L.
The descaling of 3Cr12 steel
06 p0817 N84-15322
PAUL, W.
Drift mobilities by time-of-flight methods and time-dependent phototransport in the nanosecond regime in amorphous semiconductors
[DE84-014906] 22 p3666 N84-33241
PAUL, W. H.
Integrity control of carbon fiber reinforced plastics structural elements, phase 1 report
[TB-TS-11-01/82-A] 09 p1289 N84-18416
PAULAUSKAS, W. A.
Development of a HgCdTe photomixer and impedance matched GaAs FET amplifier
[NASA-CR-170608] 02 p0213 N84-11390
PAULE, R. C.
Assessing the credibility of the calorific value of municipal solid waste
[PB84-175470] 16 p2474 N84-25861
PAULET, M.
Advanced technology for SAM systems analysis, synthesis and simulation
21 p3350 N84-31249
PAULEY, D. E.
Efficient utilization of the DRAMA service channel
[AD-A133286] 06 p0823 N84-15368
PAULK, C. H., JR.
Simulation and evaluation of the Sh-2F helicopter in a shipboard environment using the interchangeable cab system
[NASA-TM-84387] 02 p0180 N84-11178
PAULS, J. I.
Effective-width model for evacuation flow
04 p0512 N84-13362
PAULS, L.
Development of a large area color display
[BMFT-FB-T-83-206] 10 p1499 N84-19801
PAULS, W.
Development of a large area color display
[BMFT-FB-T-83-206] 10 p1499 N84-19801
PAULSEN, P. J.
Characterization of acid rain for source identification. Task 1: Sulfur isotope rationing
[DE84-006510] 12 p1845 N84-22030
PAULSON, B. L.
Planetary geometry handbook: Venus positional data, 1988 - 2020, volume 2
[NASA-CR-173192] 07 p1091 N84-17096
Planetary geometry handbook: Mars positional data, 1990 - 2020, volume 3
[NASA-CR-173193] 07 p1091 N84-17097
Planetary geometry handbook: Jupiter positional data, 1985 - 2020, volume 4
[NASA-CR-173194] 07 p1091 N84-17098
Planetary geometry handbook: Saturn positional data, 1985 - 2020, volume 5
[NASA-CR-173195] 07 p1091 N84-17099
PAULSON, D. N.
Regeneration experiments below 10K in a regenerative-cycle cryocooler
06 p0818 N84-15332
4.0 K cryocooler project
[DE84-000332] 06 p0822 N84-15358
PAULSON, J. F.
Reactions of negative ions
[AD-A143793] 23 p3714 N84-33541
PAULSON, J. W., JR.
Thrust-induced effects on subsonic longitudinal aerodynamic characteristics of a vectored-engine-over-wing configuration
[NASA-TP-2228] 04 p0481 N84-13163
Investigation of trailing-edge-flap, spanwise-blowing concepts on an advanced fighter configuration
[NASA-TP-2250] 09 p1251 N84-18164
PAULSON, M. R.
Equatorial scintillation of satellite signals and some drift characteristics of the scintillation
[AD-A137555] 11 p1642 N84-20738
PAULTER, N. G.
InP:Fe picosecond photoconductors
[DE83-015237] 02 p0215 N84-11410
PAUMIER, J.
A boundary layer parameterization for a general model
[AD-A144224] 24 p3915 N84-34791
PAVEL, G.
TIS (Technology Information System): A focal point for technology transfer
[AD-A130798] 01 p0161 N84-11060
PAVELYV, A. G.
Roughness of surface of Venus from bistatic radar data
19 p2975 N84-28857
PAVERMAN, V. S.
The influence of the relativistic character of the electron HF motion on the non-linear wave dynamics in plasmas
[IPPJ-676] 20 p3301 N84-30964
PAVLENKO, I. D.
Experimental study of behavior of cylindrical shells with lumped masses under dynamic external pressure
17 p2650 N84-26947
PAVLICS, P. N.
Comparison of calculated results from 2 analytical models with measured data from a heat-exchanger flow test
[DE83-013071] 01 p0082 N84-10534
PAVLOV, A. D.
Comparative characteristics of erythron reactions to hypoxic hypoxia, immobilization and high-intensity stationary magnetic field
07 p1046 N84-16785

PAVLOV, A. S.
Effect of body temperature on human work capacity
21 p3455 N84-31926
PAVLOV, V. A.
Mechanical properties of components made from powders received by processing low-grade porous titanium
23 p3707 N84-33500
PAVLOV, V. I.
Composite materials with aluminum matrix reinforced with carbon fibers
24 p3872 N84-34537
PAVLOVA, N. V.
Evaluation of precision of triangulation method of determining coordinates
17 p2637 N84-26869
PAVLOVA, T. A.
Link between indexes for mental work capacity and parameters in circulatory system before and after physical stress
21 p3455 N84-31925
PAVLOVSKIY, A. I.
Linear inductive accelerator
[AD-A135547] 08 p1229 N84-18029
Linear induction accelerator
[AD-A139458] 14 p2222 N84-24336
Instability of collapsing cylindrical shell during magnetic energy density
20 p3287 N84-30872
PAVLOVSKIY, V. I.
Study of specifics of formation of stress and strain in making circular welded joints in aluminum alloy envelopes
24 p3876 N84-34560
PAVONI, N.
Discussion of the design of satellite-laser measurement stations in the eastern Mediterranean under the geological aspect. Contribution to the earthquake prediction research by the Wegener Group and to NASA's Crustal Dynamics Project
[NASA-TM-77412] 14 p2175 N84-24031
PAVY, J. C.
Design of an abrasion test under high stress. Application to the characterization of manganese steel quality assurance
[CETIM-12-D-081] 21 p3415 N84-31659
PAWELEC, Z.
Unipolar machine with superconductive excitation winding
[AD-A131820] 03 p0366 N84-12383
PAWELSKI, O.
An investigation into thermomechanical treatment by rolling of High Strength Low Alloy (HSLA) steels for improving their mechanical and technological properties
[BMFT-FB-T-83-083] 02 p0197 N84-11284
PAWLEWICZ, W. T.
Optical coating materials for the ultraviolet: Selection and characterization
[DE84-011504] 21 p3410 N84-31629
PAWLICKI, P.
Selection rules for the spontaneous phase transitions in magnetoelastic metamagnets
[DE84-701200] 24 p3960 N84-35070
PAWLIKOWSKI, E.
General energy balance for battery systems
[DE84-013235] 22 p3589 N84-32731
PAWLOWSKI, J. F.
Method and apparatus for receiving and tracking phase modulated signals
[NASA-CASE-MSC-16170-2] 18 p2828 N84-27952
PAWLOWSKI, P.
Research Trends in Military Communications
[AD-A138229] 13 p1975 N84-22821
PAWULA, R. F.
Applications of differential phase statistics to studies of c3 and spread spectrum communications
[AD-A142204] 19 p3007 N84-29063
PAXTON, L. J.
Atomic carbon in the Venus thermosphere: Observations and theory
21 p3525 N84-32332
PAYLOR, E. D.
Performance evaluation and geologic utility of LANDSAT-4 TM and MSS data
[E84-10099] 12 p1828 N84-21918
Preliminary geologic/spectral analysis of LANDSAT-4 Thematic Mapper data, Wind River/Bighorn basin area, Wyoming
20 p3213 N84-30413
PAYNE, B. F.
Calibration of vibration pickups at high frequencies
[AD-P002691] 11 p1659 N84-20826
PAYNE, B. J.
Periodicity searches with IUE: Studies of pulsating galactic X-ray sources
24 p3981 N84-35218
PAYNE, B. W.
Aeroelastic design of civil transports at the project stage
02 p0170 N84-11120
PAYNE, D. L.
Individual differences in learning rate
[AD-P003338] 18 p2911 N84-28462
PAYNE, G. L.
Configuration space Faddeev calculations
[DE84-006492] 11 p1730 N84-21289
Soliton collapse during ionospheric heating
[DE84-009994] 20 p3241 N84-30576
PAYNE, J. M.
Comparison of the longitudinal flying qualities of an optimal pilot model, a ground-based simulator and an airborne simulator
[AD-A135853] 09 p1259 N84-18218
PAYNE, J. W.
Effort and accuracy in choice
[AD-A136881] 10 p1550 N84-20161
PAYNE, M. G.
Direct measurement of a VUV transition oscillator strength in xenon
[DE84-008555] 18 p2941 N84-28655
Conceptual basis of resonance ionization spectroscopy
[DE84-011662] 21 p3360 N84-31318
Theory of 4-wave mixing for VUV generation
[DE84-011663] 21 p3410 N84-31630
PAYNE, S. E.
Millimeter wave communications
[AD-A144636] 24 p3895 N84-34669
PAYNE, W. W., JR.
Evaluation of NASA structural analysis (NASTRAN) to predict the dynamic response of reinforced concrete
[AD-A137244] 10 p1517 N84-19929
PAYNTER, G. C.
Inlet flowfield investigation. Part 2: Computation of the flow about a supercruise forebody at supersonic speeds
[NASA-CR-172315] 12 p1766 N84-21516
PAYNTER, H. M.
Improvement of reliability of welding by in-process sensing and control (development of smart welding machines for girth welding of pipes)
[DE83-017012] 01 p0091 N84-10595
PAYOLLA, B. L.
Utilization of digital LANDSAT imagery for the study of granitoid bodies in Rondonia: Case example of the Pedra Branca massif
[E84-10120] 14 p2167 N84-23979
PAZAN, S.
In situ data
12 p1835 N84-21959
PAZICK, P. M.
RF systems in space. Volume 2: Space-based radar analyses
[AD-A133735] 05 p0668 N84-14394
PAZYUK, M. Y.
Special features of the formation of a bed of polydispersed free-flowing materials
[BLL-M-35674-(5828.4)] 22 p3592 N84-32747
PAZZANI, V.
IUE observations of BY Draconis
24 p3975 N84-35176
PAZZANO, P.
An experiment proposed and set up by the readers will be flying on board the Shuttle; these are the rules of the game; the experiments of others
[NASA-TM-77102] 17 p2612 N84-26718
PDEDERSON, D. O.
Research in computer simulation of integrated circuits
[AD-A141855] 19 p3013 N84-29101
PEACE, L.
Resin bonding of structural members
09 p1291 N84-18432
PEACOCK, N. J.
Laser light scattering from density fluctuations in the Culham focus
10 p1584 N84-20383
PEAKE, D. J.
Control of the forebody vortex orientation by asymmetric air injection. Part A: Application to enhance departure/spin recovery of fighter aircraft and Part B: Details of the flow structure
01 p0014 N84-10088
On issues concerning flow separation and vortical flows in three dimensions
03 p0321 N84-12100
PEAKE, W. T.
Communications biophysics
22 p3684 N84-33362
PEARCE, B. E.
Exhaust plume induced fluctuations in the index of refraction at optical wavelengths
13 p1941 N84-22624
Aircraft exhaust plume signature predictions for non-axisymmetric multiple engine installations
13 p1942 N84-22627
PEARCE, H. T.
A method for the combination of stochastic time varying load effects
21 p3417 N84-31669
PEARCE, J. G.
Simulation algorithms for parallel processes
[CSC-1023/00-FIN] 18 p2921 N84-28527
PEARCE, W. A.
Characterization of surface reflectance variation effects on remote sensing
12 p1832 N84-21944
PEARLMAN, M.
Upgrading and performance of the SAO laser ranging system in Matera
[NASA-CR-173176] 07 p1009 N84-16543
PEARLMAN, M. R.
Satellite tracking and Earth dynamics research programs
[NASA-CR-173502] 14 p2112 N84-23661
PEARLMAN, W. A.
Simply instrumentable and optimal digitization of analog information sources
[AD-A135124] 08 p1150 N84-17484
PEARLSTEIN, L. D.
Three-dimensional equilibrium in quadrupole symmetric tandem mirrors in the paraxial limit (reduced MHD)
[DE83-017840] 03 p0447 N84-12940
PEARLSTEIN, R. D.
Oxygen insufficiency and energy failure in brain: Uncoupling of oxidative phosphorylation at low oxygen concentration
05 p0714 N84-14681
PEARMAN, G. I.
Refinements to a one-dimensional carbon cycle model
[ISBN-0-643-03582-6] 10 p1533 N84-20040
PEARSON-SMITH, J. M.
Effects of variations in coldworking repair procedures on flaw growth and structural life
[AD-A141966] 20 p3202 N84-30336
PEARSON, A. E.
Control and identification of time varying systems
[AD-A135223] 08 p1238 N84-18091
PEARSON, A. W.
Radial distribution function as an analysis technique
[DE84-013242] 22 p3665 N84-33235
PEARSON, C. F.
Microearthquakes induced during hydraulic fracturing at the Fenton Hill HDR site: The 1982 experiments
[DE83-014191] 03 p0408 N84-12672
PEARSON, D.
A study of ultrafine porosity in hydrated cements using small angle neutron scattering
[AERE-R-10954] 18 p2820 N84-27907
PEARSON, D. J.
Guide to Canadian aerospace related industries
[AD-A140606] 17 p2598 N84-26650
PEARSON, D. W.
Bone blood flow measured by (41)Ar clearance formed by (44)Ca(n,(-)) (41)Ar
[DE83-017600] 06 p0866 N84-15761
PEARSON, E. W.
Historical carbon dioxide: Abundances derived from the Smithsonian spectrobolograms
[DOE/NBB-0063] 23 p3793 N84-34056
PEARSON, J. T.
Laminarization effects on the dynamics of a disk levitated by incompressible fluid flow
[DE84-003612] 10 p1494 N84-19770
PEARSON, L. W.
Scattering of an electromagnetic plane wave from a perfectly electrically conducting half-plane in the proximity of planar media discontinuities
[AD-A138968] 13 p1983 N84-22876
PEARSON, M. L.
SPAR improved structure-fluid dynamic analysis capability, phase 2
[NASA-CR-171078] 19 p3021 N84-29153
PEARSON, P. H. O.
Investigation into the internal aerodynamic design and associated errors in a fast descent ducted sonde for the measurement of atmospheric pressure and temperature (AMPARS phase 2)
[AD-A143189] 22 p3625 N84-32969
PEARSON, R. K.
Electrochemical generation of N2O5
[DE83-013377] 02 p0190 N84-11235
PEARSON, R. M.
Experimental investigation of elastic mode control on a model of a transport aircraft
[NASA-CR-3472] 18 p2792 N84-27721
PEARSON, T.
Direct comparison of intuitive, quasi-rational and analytical cognition
[AD-A130273] 01 p0116 N84-10751
PEARTON, S. J.
Deep level impurities in germanium and silicon: Low temperature passivation or removal techniques
[DE84-006772] 13 p2048 N84-23286
PEASE, C. H.
Bering Air-Sea-Ice Study (BASICS), February and March, 1981
[PB84-196161] 22 p3615 N84-32903
PEASE, D. M.
Density of occupied d states in transition metal-metalloid metallic glasses
[DE84-001206] 04 p0503 N84-13298
EXAFS study of Metglas 2605 CO
[DE84-001203] 04 p0503 N84-13299
PEASE, R. E.
Longwall shearer tracking system
[NASA-CASE-MFS-25717-1] 23 p3749 N84-33768

PEASE, R. L.
Single event upset phenomena from high energy neutrons
[AD-A131287] 02 p0282 N84-11914
PEASLEE, A. T., JR.
Alternative gaseous-fuels safety assessment
[DE84-001735] 05 p0662 N84-14350
PEAVEY, C. C.
Configuration design studies and wind tunnel tests of an energy efficient transport with a high-aspect-ratio supercritical wing
[NASA-CR-3524] 19 p2955 N84-26727
PECHACEK, R. E.
A transmission line bridge for the diagnostics of plasma channels
[AD-A139286] 14 p2228 N84-24362
Channel cooling by turbulent convective mixing
[AD-A139724] 15 p2410 N84-25466
REB (Relativistic Electron Beam)/channel tracking experiments in low pressure ammonia
[AD-A140209] 16 p2555 N84-26394
A study of long aerosol initiated laser induced air breakdown plasmas
[AD-A143967] 23 p3828 N84-34279
PECHENICK, K. R.
Electromagnetic, gravitational, and neutrino waves in flat and curved spacetime 06 p0941 N84-16111
PECHMANN, J. B.
Thermal tides in the atmosphere of Venus 06 p0876 N84-15702
PECHSTEIN, H. H.
Study on the baffle system of the sounding rocket payload INTER-ZODIAK
[BMFT-FB-W-83-015] 07 p0982 N84-16239
PECK, D. L.
Chapter 6: The US Geological Survey program and plans in the EEZ 18 p2866 N84-28193
PECK, E. L.
Remote sensing and hydrologic models
[E84-10082] 07 p1022 N84-16628
Review of hydrologic models for evaluating use of remote sensing capabilities 07 p1022 N84-16629
Strategies for using remotely sensed data in hydrologic models 07 p1022 N84-16630
A method to combine remotely sensed and in situ measurements: Program documentation
[E84-10172] 21 p3426 N84-31735
PECK, J. S.
Proceedings of the Federal Acquisition Research Symposium with Theme: Government, Industry and Academe: Synergism for Acquisition Improvement
[AD-A137700] 13 p2049 N84-23293
PECKHAM, G. E.
Experimental validation of a millimeter wave radar technique to remotely sense atmospheric pressure at the Earth's surface 23 p3775 N84-33935
PECORELLA, W.
Evaluation of the attenuation length of a scintillator by means of a computer simulation of the light collection efficiency in long scintillation counters
[NOTA-INTERNA-820] 20 p3176 N84-30169
PECSOK, R. L.
Foamable PVDF fluoroplastic for wire and cable applications 11 p1722 N84-21230
PEDDIESON, J., JR.
A perturbation method for self-coupled combustion-instability problems 15 p2317 N84-24904
PEDERSEN, A.
Spacecraft/plasma interactions and their influence on field and particle measurements
[ESA-SP-198] 08 p1115 N84-17253
Observations of the GEOS-2 equilibrium potential and its relation to the ambient electron energy distribution 08 p1116 N84-17256
Influence of wake and photoemission on electric field measurements with a double probe on GEOS-2 08 p1116 N84-17261
Comparison of thermal plasma observations on SCATHA and GEOS 08 p1117 N84-17262
The DC electric field in space: Direct measurements and inferences from cold plasma drifts 08 p1117 N84-17264
Methods for keeping a conductive spacecraft near the plasma potential 08 p1119 N84-17277
Interactions between a large body and its environment in a low polar orbit
[AD-P002111] 16 p2523 N84-26197
Report on the activities of the Space Science Department
[ESA-SP-1062] 17 p2774 N84-27611
Low energy (130 eV) oxygen ions at the geosynchronous orbit during the CDAW-6 event of March 22, 1979
[IFSI-83-17] 18 p2881 N84-28291
PEDERSEN, F. S.
On the assessment of errors due to antenna pattern imperfections: Executive summary
[TUD-R-253] 02 p0210 N84-11376
PEDERSEN, H. C.
Abrasive tip treatment for use on compressor blades
[NASA-CR-174666] 15 p2343 N84-25065
PEDERSEN, J. F.
Axial-conductances angular filter investigation
[AD-A142802] 21 p3386 N84-31487
PEDERSEN, J. R.
Low-smoke, halogenfree ship-offshore/onshore cables with improved flame retardance and fire resistance 11 p1723 N84-21240
PEDERSON, C. O.
Continuation of research in computer simulation of integrated circuits
[AD-A143005] 21 p3465 N84-31970
PEDERSON, D. O.
Research in monolithic, signal-processing circuits
[AD-A143204] 22 p3586 N84-32709
PEDINOFF, M. E.
Development of new electro-optic and acousto-optic materials
[AD-A139946] 15 p2408 N84-25453
PEDRINI, A.
Marine remote sensing activities of the Joint Research Center, Ispra, Italy 03 p0396 N84-12586
PEDROTTI, L. R.
Design and fabrication of circular and rectangular components for electron-cyclotron-resonant heating of tandem mirror experiment-upgrade
[DE84-003244] 07 p1078 N84-17010
Polarizing holographic reflector for Electron Cyclotron Resonant Heating (ECRH) on the Tandem Mirror Experiment Upgrade (TMX-U)
[DE84-003740] 08 p1162 N84-17568
Circular waveguide systems for electron-cyclotron-resonant heating of the tandem mirror experiment-upgrade
[DE84-003739] 08 p1233 N84-18062
PEEBLES, P. Z., JR.
Bistatic radar cross sections of chaff
[AD-A133967] 05 p0667 N84-14384
Radar chaff: A bibliography
[AD-A135928] 09 p1302 N84-18513
Bistatic radar cross sections of horizontally oriented chaff
[AD-A140903] 17 p2654 N84-26975
PEEK, J. M.
Beam-target interaction of intense ion beams: Theory and experiment
[DE83-018264] 03 p0436 N84-12858
Current status of calculations and measurements of ion stopping power in ICF plasmas
[DE84-005880] 21 p3501 N84-32187
PEELE, E. L.
STABCAR: A program for finding characteristic root systems having transcendental stability matrices
[NASA-TP-2165] 17 p2751 N84-27461
PEELE, W. D.
USAF/SCEEE summary faculty research program, research reports, volume 1
[AD-A130769] 01 p0157 N84-11032
USAF/SCEEE summary faculty research program (1982) research reports, volume 2
[AD-A130770] 03 p0457 N84-13009
The United States Air Force graduate student summer support program, 1983. Management report
[AD-A139363] 14 p2245 N84-24483
United States Air Force summer faculty research program, 1983. Program management report
[AD-A139366] 14 p2245 N84-24484
United States Air Force summer faculty research program, 1983, volume 1
[AD-A139403] 14 p2245 N84-24485
United States Air Force summer faculty research program, 1983, volume 2
[AD-A139404] 14 p2246 N84-24486
PEELING, S. M.
Noise reduction and segmentation of IR images using CO-median filters
[RSRE-MEMO-3582] 03 p0366 N84-12378
PEELLE, R. W.
An annotated bibliography covering generation and use of evaluated cross section uncertainty files
[BNL-NCS-51684] 16 p2566 N84-26465
PEER, J. E.
The new MIL-STDs (Military standard) 1388
[AD-P002606] 13 p2059 N84-23352
PEERCY, P. S.
Microstructures of pulse-melted Fe-Ti-C alloys
[DE83-015213] 01 p0155 N84-11024
Measurement of precipitate nucleation times in molten metals by pulsed surface melting
[DE84-002383] 05 p0656 N84-14311
Pulsed laser melting: The effect of implanted solutes on the resolidification velocity
[DE84-003252] 07 p1010 N84-16552
PEGG, D. J.
Sensitive collinear laser spectroscopy on fast atom and ion beams
[DE84-003403] 10 p1456 N84-19512
PEGO, R. L.
Nonexistence of a shock layer in gas dynamics with a nonconvex equation of state
[AD-A129169] 01 p0078 N84-10506
PEGORETTI, A.
Data transmission at 1200 Baud in mobile or fixed radio links with interchannel interferences 10 p1478 N84-19655
PEGOURIE, B.
Measurements in the presence of nonwhite noise 09 p1411 N84-19224
PEHAK, P.
Detecting heavy quark jets 06 p0914 N84-15939
PEHL, M.
Flight test techniques used for proof of structural integrity of Tornado when carrying external stores 24 p3849 N84-34413
PEI, P.
Friction and wear characteristics of molecular compound classes from lubricating base oils. Part 1: Separation and chemical characterization
[PB84-167741] 18 p2820 N84-27904
PEICHL, L.
An investigation into thermomechanical treatment by rolling of High Strength Low Alloy (HSLA) steels for improving their mechanical and technological properties
[BMFT-FB-T-83-083] 02 p0197 N84-11284
PEIRCE, D.
Holographic FLI (Fringe Linearization Interferometry) for detection of defects
[AD-A135663] 09 p1318 N84-18612
Holographic FLI for detection of defects
[AD-A142733] 20 p3189 N84-30258
PEIRCE, D. C.
Analysis of nonuniform deformation in ductile single crystals 02 p0297 N84-11951
PEKAR, S. I.
Ukrainian Physics Journal (selected articles)
[AD-A131087] 03 p0429 N84-12814
PELAN, D. C.
PLAFST programmable logic array from state table
[AD-A138466] 12 p1883 N84-22275
PELHAM, L.
Fluorspar 19 p3053 N84-29375
PELISCHEK, T. E.
Foldable self-erecting joint
[NASA-CASE-MSC-20635-1] 22 p3542 N84-32424
PELISSERO, R.
Autopilot performance evaluation Tornado experience and future applications 24 p3849 N84-34407
PELIX, G.
Optical density radiation dose relationship
[CETIM-100680] 21 p3497 N84-32162
PELL, R. A.
The use of interference-fit bolts or bushes and hole cold expansion for increasing the fatigue life of thick-section aluminium alloy bolted joints
[AR-002-973] 09 p1329 N84-18676
The use of adhesive-bonded rivets to lessen the reductions in fatigue life caused by rivet holes
[ARL-STRUC-REPT-399] 24 p3887 N84-34617
Modelling for fatigue crack growth prediction in Mirage IIIO frame 26
[ARL-STRUC-REPT-401] 24 p3912 N84-34772
PELLECHIA, P. J.
Capillary zone electrophoresis: Instrumentation and use with nonaqueous solvents
[DE84-010617] 18 p2812 N84-27854
PELLEGRIN, J. L.
Monitoring of the Stanford Linac microbunches' position
[DE83-012712] 03 p0433 N84-12840
PELLEGRINI, C.
Inverse free-electron laser accelerator
[DE83-016370] 02 p0228 N84-11493
Conceptual design of a 300-GeV accelerator based on the inverse free-electron laser mechanism
[DE84-001471] 04 p0601 N84-13969
Collective instabilities and high-gain regime free electron laser
[DE84-008172] 15 p2340 N84-25045
Adone parameters, beam structure and luminosity
[DE84-012866] 22 p3653 N84-33154
PELLEGRINO, J.
Using interactive computing to expand intelligence testing: A critique and prospectus
[AD-A141657] 19 p3072 N84-29489

PELLEGRINO, J. M.
A new multifunction acousto-optic signal processor
12 p1906 N84-22413
PELLEGRINO, S. R. M.
Automatic drawing of synoptic charts
[INPE-3146-RPE/456] 23 p3800 N84-34094
PELLI, R.
Reactor pressure vessel steels ASME SA 533B and SA508.C1.2: Microstructural investigations
[VTT-RR-219] 07 p0977 N84-16333
PELLIN, M. J.
Effect of oxygen monolayer coverages on titanium sputtering yields as determined by simultaneous laser fluorescence and Auger measurements
[DE83-014716] 01 p0046 N84-10296
Narrow-band, near-UV, high-repetition-rate laser-induced fluorescence system for use as an dge diagnostic in fusion machine
[DE84-000586] 04 p0542 N84-13567
Velocity and electronic state distributions of sputtered Fe atoms by laser-induced fluorescence spectroscopy
[DE84-003649] 08 p1230 N84-18040
PELLIN, R.
Polycrystalline silicon study: Low-cost silicon refining technology prospects and semiconductor-grade polycrystalline silicon availability through 1988
[NASA-CR-173897] 22 p3662 N84-33213
PELLIS, G.
Thermal control of tethered satellite in a very low altitude aerodynamic mission 10 p1446 N84-19444
PELLIZZARI, E. D.
Personal exposure to volatile organics and other compounds indoors and outdoors: The TEAM (Total Exposure Assessment Methodology) study
[PB83-231357] 01 p0115 N84-10744
Optimization of GC/MS based Tenax collection method for toxic organics
[PB83-229476] 02 p0222 N84-11455
Bioassay of particulate organic matter from ambient air
[PB83-239731] 02 p0267 N84-11754
Evaluation of sampling methods for gaseous atmospheric samples
[PB84-190735] 20 p3151 N84-30012
PELLMAR, T. C.
Methods for use of the single-electrode voltage clamp
[AD-A144177] 24 p3897 N84-34676
PELLON, L. E.
Multispectral linear array visible and shortwave infrared sensors 23 p3781 N84-33977
PELLOUX, R. M.
Experimental and theoretical studies of creep crack growth
[AD-A141193] 18 p2814 N84-27862
PELON, J.
Spaceborne lidar applications to meteorology and environmental studies 24 p3904 N84-34725
PELOQUIN, R. A.
A user-oriented laboratory data entry computer system designed to reduce errors
[DE84-011901] 20 p3267 N84-30730
PELT, J.
Phase dispersion minimization methods for estimation of periods from unequally spaced sequences of data
09 p1408 N84-19202
PELTONEN, J. K.
Cyrogenic FET IF-amplifier for a mm wave mixer
[REPT-S-124] 09 p1310 N84-18566
Spectral line receiver for 80-90 GHz designed at the Helsinki University of Technology
09 p1413 N84-19243
PELZ, R. B.
Transonic flow calculations using triangular finite elements 13 p1925 N84-22529
PELZER, H.
Detection of errors in the functional adjustment model
16 p2505 N84-26074
PENA, D.
The autocorrelation function of seasonal ARMA models
[AD-A137929] 11 p1715 N84-21182
On the logical development of statistical models
[AD-A137936] 11 p1717 N84-21203
PENA, L.
Quasitransitive algebras
[AD-P002343] 14 p2191 N84-24134
PENA, T.
Yellow ophthalmic filters in the visual acquisition of aircraft
[AD-A138536] 13 p2020 N84-23097
PENCE, T. J.
The emergence and propagation of a phase boundary in an elastic bar
[AD-A132275] 04 p0549 N84-13616
The emergence and propagation of a phase boundary in an elastic bar 05 p0690 N84-14535
PENDERGRAFT, O. C., JR.
Effect of thrust reverser operation on the lateral-directional characteristics of a three-surface F-15 model at transonic speeds
[NASA-TP-2234] 04 p0481 N84-13165
Fuselage and nozzle pressure distributions of a 1/12-scale F-15 propulsion model at transonic speeds. Effect of fuselage modifications and nozzle variables
[NASA-TP-2333] 22 p3531 N84-32354
PENDERGRASS, T. S.
Radome analysis
[AD-A136805] 10 p1481 N84-19677
PENDLETON, W. K.
Pulsed power bibliography. Volume 2: Annotated bibliography
[AD-A131753] 03 p0379 N84-12468
Pulsed power bibliography. Volume 1: Indices
[AD-A131752] 03 p0379 N84-12469
PENDLETON, Y.
New infrared observations of IRS1, IRS3 and the adjacent nebula in the OMC-2 cluster
16 p2572 N84-26506
New infrared observations of IRS1, IRS3, and the adjacent nebula in the OMC-2 cluster
18 p2950 N84-28705
PENDYALA, S.
Positron spectroscopy applied to the analysis of surfaces
[DE82-008836] 01 p0038 N84-10238
Generation of monoenergetic positrons
[DE83-015535] 03 p0440 N84-12887
PENEAU, J. M.
A technique for simulating conduction interference created by electromagnetic pulses (EMP)
[SNIAS-841-422-104] 21 p3388 N84-31502
PENETRO, M.
Aircraft Integrated Data Systems (AIDS) on medium size aircraft 17 p2587 N84-26582
PENFIELD, P., JR.
Custom integrated circuits 22 p3684 N84-33361
PENG, S. T.
Analysis of nonuniform dielectric waveguides for millimeter-wave applications
[AD-A141406] 19 p3013 N84-29098
PENG, T. C.
Influence of rare-earth additions on properties of titanium alloys. Effects of yttrium and erbium additives on rapid solidification processing, superplastic forming, welding, and strengthening of titanium alloys
[AD-A133669] 05 p0654 N84-14299
PENG, T. H.
Climate-chemistry connection
[DE84-001950] 06 p0882 N84-15739
PENG, Y. K. M.
Preionization and start-up in the ISX-B Tokamak using electron cyclotron heating at 28 GHz
[DE84-002261] 06 p0920 N84-15984
Numerical simulation of the plasma current quench following a disruptive energy loss
[DE84-003151] 07 p1077 N84-17004
PENKO, P. F.
Improved heat exchanger for electrothermal devices
[NASA-CASE-LEW-14037-1] 22 p3542 N84-32425
PENN, K. J.
Ultraviolet-laser triggering of a 5-megavolt multistage gas switch
[DE83-013641] 01 p0087 N84-10570
PENN, S. L.
Aircraft Spare Stockage Methodology (aircraft spares) study
[AD-A142259] 19 p2955 N84-28730
PENN, W. A.
Acousto-Optic Adaptive Processing (AOAP)
[AD-A141445] 19 p3100 N84-29689
PENNELL, M.
On-orbit performance of LIPS gallium arsenide solar cell experiment 19 p3045 N84-29319
PENNER, H.
SUN WORSHIPER: McCready's Solar Challenger flies over the English Channel
[NASA-TM-77327] 07 p0950 N84-16166
PENNEY, C. M.
Applications of laser scattering probes to turbulent diffusion flames
[AD-A138207] 12 p1792 N84-21685
PENNINGS, N. H.
A Variable Conductance Heat Pipe (VCHP) radiator system for communications payloads
10 p1440 N84-19406
PENNINGTON, J. E.
Single pilot scanning behavior in simulated instrument flight 03 p0313 N84-12041
PENNOCK, G. R.
Kinematics and dynamics of multi-rigid-body open-chain systems: Application to robot manipulators
08 p1204 N84-17851
PENNOCK, H. A.
Criteria for use of asphalt friction surfaces
[PB84-155613] 14 p2135 N84-23796
PENNSYLE, R. O.
Estimation of parameters for truncated distributions
[AD-A132605] 05 p0735 N84-14827
PENNY, A. J.
The current status and future upgrade of the PDS at the Royal Greenwich Observatory
18 p2840 N84-28031
PENNY, R. E., JR.
A model for evaluation of satellite population management alternatives
[AD-A136886] 10 p1436 N84-19386
PENNY, S. K.
MAPPER user's manual
[DE84-003478] 11 p1708 N84-21133
PENROSE, B. J.
Integrated technology wing design study
[NASA-CR-3586] 23 p3693 N84-33402
PENROSE, W. R.
Portable device for detecting and identifying hazardous vapors
[DE84-003640] 14 p2148 N84-23870
PENSTON, M. V.
The broad absorption line region in NGC 4151
24 p3971 N84-35146
A UV glimpse of T Tauri stars
24 p3975 N84-35174
PENT, M.
Implementation of a stand alone FORTRAN version of the TOPSIM simulation package
[ESA-CR(P)-1825] 12 p1884 N84-22284
PENTECOST, E.
Materials processing in space program tasks-supplement
[NASA-TM-82548] 03 p0338 N84-12196
Microgravity Science Applications Bibliography: 1984 revision
[NASA-TM-86651] 21 p3518 N84-32283
PENTH, B.
Increase of worker autonomy at the industrial work place as shown in three humanization projects in Sweden, in Great Britain and in the USA
[BMFT-FB-HA-83-031] 16 p2564 N84-26453
PENTREATH, R. J.
Sedimentation studies relevant to low-level radioactive effluent dispersal in the Irish Sea. Part 3: An evaluation of possible mechanisms for the incorporation of radionuclides into marine sediments
[IOS-178] 19 p3062 N84-29431
PENZIEN, J.
Hybrid modeling of soil-structure interaction in layered media
[PB84-192178] 20 p3171 N84-30137
PEON, G. A.
Analysis of directivity as a function of scan angle for planar arrays of radiating slots
[AD-P003503] 21 p3383 N84-31471
PEOPLES, J.
Hadron-hadron collider group
[DE83-010704] 03 p0437 N84-12865
PEPE, J. T.
The evolution of the JOVIAL/J73 language from definition to use
[AD-P003518] 21 p3329 N84-31122
PEPELOV, A. A.
Generalization of results of electro-simulation of temperature of the piece during centrifugal cladding
[BLL-M-35687-(5828.4)] 22 p3551 N84-32479
PEPINO, B.
AMIX: An automated system for handling error notification data 05 p0722 N84-14734
PEPLINSKI, D. R.
Introduction to simulation of upper atmosphere oxygen satellite exposed to atomic oxygen in low Earth orbit
24 p3863 N84-34479
A facility for investigating interactions of energetic atomic oxygen with solids 24 p3863 N84-34481
PEPPER, D. M.
Nuclear magnetic resonance gyroscope
[AD-A130102] 01 p0083 N84-10539
PEPPER, D. W.
Calculation of natural convection within a heated enclosure using the method of second moments
[DE84-001596] 04 p0535 N84-13517
Simulation of natural convection in a rectangular loop using finite elements
[DE84-003477] 08 p1160 N84-17550
PEPPER, R. L.
NOSC (Naval Ocean Systems Center)-Hawaii perceptual sciences research program
[AD-P003361] 18 p2913 N84-28474

PEPPER, S. V.
Matrix effects in ion-induced emission as observed in Ne collisions with Cu-Mg and Cu-Al alloys
[NASA-TM-83061] 01 p0141 N84-10923
The strength of the metal. Aluminum oxide interface
14 p2153 N84-23898
PEPPER, W. B.
Development of the parachute recovery system for the LBRV-2 reentry vehicle
[DE84-003340] 08 p1100 N84-17151
Development of the parachute recovery system for the LBRV-2 reentry vehicle
[DE84-001540] 12 p1766 N84-21518
Preliminary results of the effects of sewing, packing and parachute deployment on material strength
[DE84-006464] 13 p1927 N84-22541
PEPPER, W. B., JR.
New, high performance rotating parachute
[DE84-002382] 06 p0783 N84-15129
PEPPIN, R. J.
Industrial noise control: The past three years
10 p1505 N84-19846
PEPPLER, F. W.
Temperature distributions, boiling and dry-out behind local blockages 06 p0843 N84-15495
Sodium boiling experiments in bundle geometries under fast transient and steady state conditions
06 p0843 N84-15496
PERALA, R. A.
Physical and computer modeling of military earth grounding practices in a HEMP (High-Altitude Electromagnetic Pulse) environment
[AD-A130141] 01 p0070 N84-10454
PERALTA-DURAN, A.
Creep-rupture reliability analysis
[NASA-CR-3790] 10 p1516 N84-19925
PERANGELO, H. J.
Application of advanced parameter identification methods for flight flutter data analysis with comparisons to current techniques 24 p3848 N84-34401
PERANO, K. J.
Application of micropolar elasticity to the finite element continuum analysis of articulated structures
17 p2679 N84-27064
PERARDI, T.
Impact of vegetative hydrocarbon emissions on ambient ozone levels and control program development
[DE84-008515] 18 p2878 N84-28273
PERATT, A. L.
Pulsed-power diode generation of high-power microwaves
[DE84-001344] 04 p0523 N84-13440
PERBOS
Investigation of LANDSAT D Thematic Mapper geometric performance: Line to line and band to band registration
[E84-10187] 21 p3429 N84-31758
PERCHE, G. E.
Ion thruster project
[INPE-2803-PRE/363] 02 p0186 N84-11205
PERCIVAL, C. M.
Piezometer probe technology for geotechnical investigations in coastal and deep-ocean environments
[AD-P002689] 11 p1659 N84-20824
PERCIVAL, J. A.
The Archean crust in the Wawa-Chapleau-Timmins region. A field guidebook prepared for the 1983 Archean Geochemistry-Early Crustal Genesis Field Conference
11 p1681 N84-20969
PERDRIEL, G.
Visual function and the definition of thresholds for exposure to laser radiation 22 p3632 N84-33019
PERDZOCK, J. M.
Design and development of the multifunction flight control reference system 03 p0316 N84-12065
Application of multifunction strapdown inertial system
16 p2447 N84-25698
PEREBOOM, P. L.
An extended real-time microwave airplane position system 24 p3850 N84-34419
PEREIRA, A.
The blue-green spectrum of gaseous Pb2 wave numbers and constants of the FOu+ - XOg+ system
[USIP-84-06] 20 p3151 N84-30009
PEREIRA, C. S.
A one dimensional model for the study of upwelling
[INPE-2936-RPE/445] 13 p2018 N84-23086
A numerical model for studying some coastal circulation
[INPE-2904-RPE/444] 17 p2737 N84-27388
PEREIRA, E. B.
Basic elements of nuclear geophysics
[INPE-3002-PRE/452] 17 p2726 N84-27350
PEREIRA, J. A. G.
Digital image registration by sequential analysis
[INPE-2940-PHE/429] 03 p0376 N84-12446
A fast interpolator with slope specification
[INPE-3058-PRE/478] 17 p2751 N84-27462
The surface generation using weighted splines
[INPE-3160-PRE/534] 21 p3470 N84-31994
Automatic drawing of synoptic charts
[INPE-3146-RPE/456] 23 p3800 N84-34094
PEREIRA, M. D. B.
Mapping project on land use changes in the carboniferous region of Santa Catarina
[NASA-CR-173946] 23 p3763 N84-33853
PEREIRA, S. A.
Ordered address binary trees: A technique for the optimization of access to trees on disk
[INPE-2916-PRE/428] 13 p2026 N84-23133
PEREL, J.
Ion source for a rocket payload
[AD-A135051] 08 p1121 N84-17289
PEREPELKIN, V. G.
Wind velocity and temperature profiles in atmospheric surface layer for neutral and unstable stratification conditions 18 p2865 N84-28189
PEREPEZKO, J. H.
Solidification of highly undercooled liquid droplets
[AD-A143892] 23 p3714 N84-33543
PEREYASLOV, V. S.
Device for marking and searching for information on a magnetic carrier
[AD-A139393] 14 p2148 N84-23867
PEREZ-MENDEZ, V.
Large area non-crystalline semiconductor detectors
06 p0912 N84-15925
PEREZ, A. A.
Pressure filtration of ceramic pastes. 4: Treatment of experimental data
[NASA-TM-77454] 19 p2997 N84-28992
PEREZ, E. S.
Conical flows with leading edge vortices
15 p2333 N84-25013
PEREZ, J. E.
Identification and estimation of the area planted with irrigated rice based on the visual interpretation of LANDSAT MSS data
[E84-10164] 17 p2710 N84-27256
PEREZ, M. C.
Improving a chemical method to determine the epoxy equivalent in epoxy resins
[REPT-I-4/241/720/83.063] 10 p1469 N84-19593
PEREZ, R.
Results of the Purdue University GAS-1 payload
18 p2799 N84-27760
PEREZ, R. R.
An anisotropic model of diffuse solar radiation with application to an optimization of compound parabolic collectors 05 p0765 N84-15017
PERIAUX, J.
Least squares and domain decomposition methods applied to the numerical solution of nonlinear problems in fluid dynamics 06 p0839 N84-15468
PERIGAUD, C.
Somali current studied from SEASAT altimetry
17 p2719 N84-27307
PERIONOTTO, M.
A comprehensive ultraviolet extinction study: Grain model and grain evolution implications
24 p3982 N84-35232
PERKEY, D. J.
Numerical study of mesoscale convective complexes
[PB84-136506] 10 p1541 N84-20102
LAMPS software 24 p3931 N84-34884
PERKINS, D. C.
Primer for the Transportable Applications Executive
[NASA-TM-86062] 09 p1367 N84-18921
A device-dependent interface for interactive image display
[NASA-TM-86136] 21 p3461 N84-31949
PERKINS, D. D.
Accident surrogates for use in analyzing highway safety hazards, volume 2
[PB84-174747] 16 p2478 N84-25884
Accident surrogates for use in analyzing highway safety hazards. Volume 3: Appendices A-G
[PB84-174754] 16 p2478 N84-25885
PERKINS, F. W.
Advanced ICRF launchers for heating and current drive in large Tokamaks
[DE84-009092] 19 p3108 N84-29750
PERKINS, G. S.
Dual arm master controller concept: Consolidated fuel reprocessing program
[NASA-CR-173843] 20 p3196 N84-30296
PERKINS, J. C.
Human factors engineering. Part 1: Test procedures
[AD-A140343] 16 p2539 N84-26302
PERKINS, J. R.
Aircraft-store Electrical Interconnection System (AEIS) functional requirements
[AD-P003527] 21 p3330 N84-31131
Signal set standardization for the aircraft-store electrical interconnection system
[AD-P003528] 21 p3330 N84-31132
PERKINS, K. L.
Development of low cost custom hybrid microcircuit technology
[NASA-CR-161977] 18 p2832 N84-27978
PERKINS, L. J.
Novel neutralized-beam intense neutron source for fusion technology development
[DE83-014953] 01 p0144 N84-10949
PERKINS, P.
Large, horizontal-axis wind turbines
[NASA-TM-83546] 17 p2722 N84-27327
PERKINS, P. J., JR.
Performance degradation of a typical twin engine commuter type aircraft in measured natural icing conditions
[NASA-TM-83564] 04 p0483 N84-13173
PERKINS, S. C., JR.
Prediction of vortex shedding from circular and noncircular bodies in supersonic flow
[NASA-CR-3754] 08 p1096 N84-17129
A study of prediction methods for the high angle-of-attack aerodynamics of straight wings and fighter aircraft
[NASA-CR-3764] 08 p1097 N84-17131
PERKINS, S. T.
OMEGA documentation
[DE84-007014] 14 p2206 N84-24239
PERKINS, W. R.
Control strategies for complex systems for use in aerospace avionics
[AD-A135072] 08 p1104 N84-17179
PERKINS, W. W.
CURV 3: Characteristics and mission applications
[AD-A140225] 17 p2629 N84-26819
PERKOWSKI, Z.
Horizons of technology (selected articles)
[AD-A131897] 03 p0476 N84-13135
PERLMAN, D.
Physiology 22 p3684 N84-33363
PERLMAN, M. B.
Accuracy of vortex methods
[DE84-005714] 11 p1654 N84-20796
PERMINOV, A. A.
Features of behaviour of gas bubbles in molten oxide films during enamelling
[BLL-M-35672-(5828.4)] 22 p3553 N84-32496
PEROLA, G. C.
The broad absorption line region in NGC 4151
24 p3971 N84-35146
PERONA, G. E.
A discriminant analysis of radar data applied to severe storms 23 p3775 N84-33933
PERONE, S. P.
Battery lifetime prediction by pattern recognition application to lead-acid battery life-cycling test data
[AD-A133281] 06 p0829 N84-15397
PEROTTO, V.
Heat pipes for the L-SAT communications module radiators 10 p1440 N84-19405
PEROUTKA, M. R.
TERR, PERR, and GIGC: Three programs to compute verification statistics
[PB84-127521] 08 p1193 N84-17775
Decoder for manually digitized radar observations
[PB84-127539] 09 p1351 N84-18826
MDR-processing manually digitized observations
[PB84-161462] 14 p2181 N84-24070
PEROUTKY, J. D.
APPS-4 (Analytical Photogrammetric Processing System-4) remote sensing applications guide
[AD-A134977] 08 p1178 N84-17676
PERRIER, M.
Experimental water tunnel with density stratification for the simulation of small-scale atmospheric flows
[BLL-RISLEY-TR-4871-(9091.9F)]
08 p1106 N84-17188
PERRING, S.
A comparison of the ultrasonic attenuation of Fe-C alloys in the annealed, normalised and quenched states
[AERE-R-10956] 18 p2929 N84-28573
PERRONE, J. A.
Visual slant misperception and the Black-Hole landing situation
[NASA-TM-85866] 07 p1049 N84-16795
PERRY, A. J.
Adhesion studies on ion plated TiN steel
[BLL-RISLEY-TR-4880-(9091.9F)]
08 p1129 N84-17341

PERRY, A. M.
Atmospheric retention of anthropogenic CO2: Scenario dependence of the airborne fraction
[DE83-016854] 04 p0565 N84-13723
Can we delay a greenhouse warming
[DE84-003390] 08 p1183 N84-17703
Atmospheric retention of anthrogenic CO2: Scenario dependence of the airborne fraction
[DE84-012079] 21 p3448 N84-31879
PERRY, B.
Marine Air Traffic Control And Landing System (MATCALS) investigation
[AD-A130309] 01 p0007 N84-10045
PERRY, C. H.
Dynamical friction in condensed matter
[DE84-004202] 10 p1589 N84-20415
PERRY, D. N.
Line studies of Wolf-Rayet stars: The WN subclass
21 p3522 N84-32311
PERRY, D. S.
Conductivity in semiconductors induced by vibrational-to-electronic energy transfer
[AD-A140094] 16 p2553 N84-26380
PERRY, F. C.
Applied-B ion diode experiments on PBFA 1
[DE83-017792] 03 p0447 N84-12942
Diagnosing the ion beam on the applied-B diode
[DE83-017822] 03 p0447 N84-12943
PERRY, F. J.
Solar thermal propulsion: An investigation of solar radiation absorption in a working fluid
[AD-A144294] 24 p3917 N84-34797
PERRY, J.
Global maps of foF2 derived from observations and theoretical values
[PB84-163906] 15 p2369 N84-25215
PERRY, K.
The measurement of elastic constants for the determination of stresses by X-rays
[AD-A132330] 04 p0590 N84-13897
PERRY, M. L.
Logic design of a shared disk system in a multi-micro computer environment
[AD-A132165] 04 p0585 N84-13862
PERSEN, L. N.
The break-up mechanism of a streamwise directed vortex 03 p0325 N84-12123
PERSESOV, I. L.
Vertical movements and magnetic variations before earthquakes 18 p2860 N84-28163
PERSHIN, S. B.
Effect of decimeter waves on physical-chemical state of membranes, thymocyte chromatin and immunological reactivity of an organism 17 p2742 N84-27411
PERSHING, D. E.
Thermionic cathode, MITL (Magnetically Insulated Transmission Line) and auxiliary coils systems investigations for the modified betatron
[AD-A133757] 05 p0744 N84-14887
PERSI, P.
Multifrequency observations of three active galaxies
24 p3972 N84-35151
Coordinated X-ray, ultraviolet, optical, and infrared observations of the transient source A0535+26
24 p3981 N84-35219
PERSIC, M.
The spectrum of the symbiotic star CH Cygni in January 1984 24 p3980 N84-35210
PERSKY, J. H.
Geologic observations of the Martian highland boundary in the Mamers Valles region 15 p2426 N84-25572
PERSONNE, J.
Cylindrical v-grooved non-metallic optical fibre cable
11 p1723 N84-21242
PERSSON, K. I.
Investigations concerning improvements of the SAAB 37 windshield birdstrike resistance
[AD-P003217] 17 p2595 N84-26630
PERSSON, P. O. G.
Wind energy assessment studies in the Goodnoe Hills and Cape Blanco areas
[DE84-010087] 19 p3059 N84-29409
PERSSON, S. T.
Image processing for low resolution target finders
[FOA-C-30297-E1,E3] 07 p0962 N84-16238
PERTILE, V.
Measurement of atmospheric moisture and extinction coefficient in the near infrared at Cima Ekar
[IFSI-83-6] 05 p0762 N84-14999
PERTSEKAS, D. P.
Asymptotic optimality of shortest path routing
[AD-A132280] 04 p0521 N84-13423
PERTSEVA, V. A.
Results of investigation of adaptive speech codes
21 p3376 N84-31428
PERTSOVSKIY, N. Z.
Electron microscope study of processes of polygonization and recrystallization in alpha-phase of two-phase (alpha + beta)-titanium alloys with plate structure 23 p3708 N84-33507
PERUCCHIO, R.
Interactive computer graphic surface modeling of three-dimensional solid domains for boundary element analysis 12 p1873 N84-22208
An integrated boundary element analysis system with interactive computer graphics for 3-dimensional linear-elastic fracture mechanics
17 p2676 N84-27048
PERVEYEZ, A. F.
Effect of ion treatment of substrates on initial stage of buildup of metal films 21 p3378 N84-31439
PERZYNA, P.
Stability of flow processes for dissipative solids with internal imperfections
[ISSN-0208-5658] 15 p2331 N84-24998
PESHEV, V. V.
Effect of electric field on build-up and annealing of E5-centers in GaAs 18 p2825 N84-27934
Role of charged state in build-up and annealing of deep centers in GaAs irradiated by protons
18 p2825 N84-27938
PESHKOV, V. V.
Optimization of initial microstructures of OT4-1 alloy elements joined by diffusion welding
24 p3875 N84-34558
PESQUERAMORALES, C. I.
Integrated analysis and design of steel frames with interactive computer graphics 17 p2677 N84-27049
PESQUIES, P. C.
Sustained physical activity in diverse situations: Metabolic and hormone data 11 p1696 N84-21077
Use of primate model in weightlessness bone physiology: General problems 23 p3809 N84-34154
Use of primate model in weightlessness bone physiology. Histological approach after iliac crest biopsy
23 p3809 N84-34155
PESTOV, Y. N.
Large area spark counters with fine time and position resolution
[DE84-007804] 15 p2337 N84-25031
Large area spark counter with fine time and position resolution
[DE84-008203] 19 p3028 N84-29202
PETEHERYCH, S.
A new parameterization of an empirical model for wind/ocean scatterometry 17 p2712 N84-27269
New algorithms for microwave measurements of ocean winds 17 p2713 N84-27272
The impact of scatterometer wind data on global weather forecasting 17 p2720 N84-27314
First global analysis of SEASAT scatterometer winds and potential for meteorological research
17 p2720 N84-27315
PETENEV, O. S.
The electrodeposition of titanium coatings
[BLL-OA-TRANS-3057-(6196.3)]
04 p0497 N84-13260
PETENKO, I. V.
Comparison of qualitative and quantitative measurements of temperature turbulence with monostatic sodar 18 p2865 N84-28188
PETER, F. E.
Data word standardization
[AD-P003543] 21 p3333 N84-31147
PETER, K.
Unit production cost of the radar beacon transponder (Rbx)
[AD-A121532] 17 p2652 N84-26956
PETER, W.
Simulation studies on a novel betatron injection scheme
[DE84-001337] 04 p0598 N84-13946
PETERFREUND, A. R.
Geology of Maxwell Montes, Venus
13 p2077 N84-23460
Venus: Global distribution of Pioneer-Venus radar roughness and reflectivity and global correlation of altimetry, roughness and reflectivity observations
13 p2077 N84-23461
PETERMAN, W.
Creep-rupture behavior of candidate Stirling engine iron supperalloys in high-pressure hydrogen. Volume 2: Hydrogen creep-rupture behavior
[NASA-CR-174705] 19 p2992 N84-28961
PETERS, C.
Mixture models for dependent observations
03 p0393 N84-12562
PETERS, C. E.
Measurement of spray combustion processes
11 p1609 N84-20530
PETERS, D. A.
Effect of blade structural parameters on helicopter vibrational characteristics
[AD-A134547] 07 p0951 N84-16174
Design of helicopter rotor blades for optimum dynamic characteristics
[NASA-CR-175380] 08 p1103 N84-17171
PETERS, E.
Analysis of Sweet Lake geopressured-geothermal aquifer
[DE84-006053] 12 p1836 N84-21972
PETERS, H. G.
Utilization of satellite observations to determine the mean orbital elements
[LFD-219] 15 p2269 N84-24627
PETERS, J. E.
Predicted TF41 performance with the AGARD research fuel 15 p2293 N84-24763
PETERS, L. J.
Extent of hearing loss among Army aviators at Fort Rucker, Alabama
[AD-A132089] 03 p0415 N84-12714
PETERS, M.
Comparison of the force scale up to 1 MN between the Physikalisch-Technischen Bundesanstalt (PTB), West Germany and the Technical Research Centre of Finland (VTT)
[VTT-229] 15 p2336 N84-25021
Spatial electron density and electric field strength measurements in microwave cavity experiments
[NASA-CR-173907] 22 p3582 N84-32682
PETERS, N.
Stretch effects in plane premixed hydrogen-air flames
[DE84-012035] 21 p3360 N84-31311
PETERS, P. N.
Interaction of atomic oxygen with solid surfaces at orbital altitudes (A0114) 15 p2271 N84-24636
PETERS, W. L.
Test techniques for jet effects on fighter aircraft
14 p2098 N84-23589
PETERSEN, A.
Some results from a programme of research into the structure of vortex flow fields around missile shapes
03 p0323 N84-12111
PETERSEN, E. L.
Proton-induced single event upsets in the SBP9989 microprocessor
[AD-A142448] 20 p3266 N84-30724
PETERSEN, G.
Windpowered generators. Test field Pellworm. The test of the Aeroman system
[GKSS-83-E-15] 02 p0243 N84-11589
Wind energy test field Pellworm: Tests of the plant Bruemmer BW 120S
[GKSS-83-E-42] 13 p2010 N84-23035
Measuring and data evaluation systems at the wind test site Pellworm
[GKSS-84-E-12] 23 p3791 N84-34044
PETERSEN, H.
Cryogenic testing of the TPC superconducting solenoid
[DE84-000528] 04 p0527 N84-13467
Forced two-phase cooling of the TPC superconducting solenoid
[DE83-017749] 04 p0613 N84-14049
Hydrolysis of plastic wastes with the aim of recovering and reprocessing the starting components (recycling)
[BMFT-FB-T-83-199] 08 p1126 N84-17322
Thermal control design of ISPM
10 p1441 N84-19408
PETERSEN, J. D.
Intramolecular energy transfer reactions as a method for metal complex assisted production of hydrogen
[DE84-004762] 10 p1458 N84-19510
PETERSEN, K. L.
Software control and system configuration management: A systems-wide approach
[NASA-TM-85908] 21 p3328 N84-31112
PETERSEN, K. M.
Response of installed temperature sensors
[DE83-015509] 02 p0224 N84-11471
PETERSEN, N. V.
Dependence of velocity on depth determined from travel-time curves of refracted waves in randomly inhomogeneous media 17 p2701 N84-27208
Density inhomogeneities in upper mantle of eastern Indian Ocean 17 p2702 N84-27210
Ray trajectories in stochastic media with linear dependence of deterministic velocity component on depth 17 p2702 N84-27211
PETERSEN, P. L.
Care 3: Hands-on demonstration and tutorial
[NASA-TM-85811] 17 p2749 N84-27448
CARE 3: Model overview and user's guide
[NASA-TM-85810] 18 p2920 N84-28514

PETERSEN, U.
Creep feed grinding: Advanced profile grinding technology 09 p1292 N84-18439
PETERSEN, W. B.
Turbulent diffusion behind vehicles: Experiments and verification of roadway models
[PB84-194273] 21 p3326 N84-31101
PETERSON, B. J.
Deforestation measured by LANDSAT: Steps toward a method
[DE83-016645] 04 p0554 N84-13652
PETERSON, C. N.
Physiological data acquisition system and motion sickness prevention trainer
[AD-A136361] 12 p1865 N84-22153
PETERSON, C. W.
High-speed, low-altitude payload delivery using a single large ribbon parachute
[DE84-002731] 06 p0783 N84-15128
PETERSON, D. B.
Development of a simplified procedure for rocket engine thrust chamber life prediction with creep
[NASA-CR-168261] 10 p1450 N84-19472
Review of solar fuel-producing quantum conversion processes
[NASA-CR-173904] 22 p3617 N84-32916
Solar photochemical process engineering for production of fuels and chemicals
[NASA-CR-173910] 22 p3617 N84-32917
PETERSON, D. G.
Piecewise simulation proton test of gallium arsenide and thin silicon solar cells 19 p3045 N84-29317
PETERSON, D. R.
Solid modelling in the Department of Energy
12 p1870 N84-22188
PETERSON, E.
NASA metrology information system: A NEMS subsystem 22 p3672 N84-33279
PETERSON, E. A.
Comparison of CRT (Cathode Ray Tube) antireflection filters
[PB84-202753] 22 p3590 N84-32742
PETERSON, E. M.
NASA Demonstration Advanced Avionics System (DAAS) 03 p0314 N84-12048
PETERSON, E. W.
A study of the weather record from Fanoe (1872-1960) including an analysis of climate variation
[AD-A136694] 10 p1540 N84-20090
PETERSON, G. R.
The ISPM solar-wind plasma experiment
09 p1261 N84-18231
PETERSON, J. B., JR.
Aerodynamic design of the contoured wind-tunnel liner for the NASA supercritical, laminar-flow-control, swept-wing experiment
[NASA-TP-2335] 23 p3688 N84-33377
PETERSON, J. C.
On setting up boundary conditions for soil-structure interaction problems with DYNALK (a ling from TENSOR to DYNA3D)
[DE83-016914] 02 p0206 N84-11344
A TWT amplifier with a linear power transfer characteristic and improved efficiency
[NASA-TM-83590] 12 p1810 N84-21803
PETERSON, J. S.
High Reynolds number solutions for incompressible viscous flow using the reduced basis technique
15 p2317 N84-24905
On the finite element approximation of the stream function-vorticity equations
[AD-A143506] 22 p3594 N84-32758
PETERSON, N. L.
Fast diffusion of iron in single crystal rutile and iron doped rutile
[DE84-004021] 06 p1236 N84-18079
Diffusion mechanisms in transition-metal oxides
[DE84-003460] 06 p1236 N84-18081
Application of transverse-section analytical electron microscopy to the study of oxidation of metal alloys
[DE84-006415] 20 p3157 N84-30049
Cation self-diffusion in Fe2O3
[DE84-009152] 20 p3310 N84-31025
Point defects and diffusion mechanisms in the monoxides of the iron-group metals
[DE84-012105] 21 p3505 N84-32210
PETERSON, R.
Molecular beam mass spectrometer sampling of flash ignited combustion
[DE84-006771] 22 p3548 N84-32459
PETERSON, R. J.
Temperature-resistant elements for reverse osmosis treatment of hot process waste
[DE84-005190] 10 p1456 N84-19507
PETERSON, R. L.
Hover test of a full-scale hingeless helicopter rotor: Aeroelastic stability, performance and loads data
[NASA-TM-85892] 09 p1255 N84-18190
Hover test of a full-scale hingeless rotor
[NASA-TM-85990] 23 p3692 N84-33401
PETERSON, R. R.
Gas filled dynamics for laser driven fusion reactors
[DE84-005181] 12 p1910 N84-22444
PETERSON, R. S.
Development and flight evaluation of an augmented stability active controls concept with a small horizontal tail
[NASA-CR-165951] 19 p2967 N84-28805
PETERSON, T.
Space shuttle main engine turbopump transducer
[AD-P002680] 11 p1658 N84-20817
PETERSON, V. L.
Application of supercomputers to computational aerodynamics
[NASA-TM-85965] 18 p2785 N84-27680
Trends in computational capabilities for fluid dynamics
[NASA-TM-86012] 23 p3689 N84-33383
PETERSON, W. K.
The plasma sheet boundary layer
[AD-A137399] 10 p1537 N84-20069
PETERSON, W. M.
Geological and geochemical controls on the chemical evolution of subsurface water in undisturbed and surface-mined landscapes in western North Dakota
[PB84-126952] 08 p1180 N84-17685
PETERSSON, R.
Study of wind scatterometer antenna for ERS-1. Volume 1: Executive summary report
[Y/A-3380] 13 p2017 N84-23080
Study of windscatterometer antenna for ERS-1
[MIX/A-3188] 13 p2018 N84-23081
PETIAU, C.
Aeroelasticity and optimization at the design stage
02 p0172 N84-11131
PETIT, G.
Contribution of the industry to a better adaptation of helicopters to military requirements
[SNIAS-841-210-102] 23 p3687 N84-33367
PETIT, J. C.
Adsorption of hydrocyanic acid on Lewis acid sites of silicon dioxide 17 p2620 N84-26767
PETIT, P. A.
Assessing and displaying the effects of elevated trapping layers in support of Navy command and control
[AD-A142216] 19 p3008 N84-29065
PETITJEAN, L.
Electromagnetic design of a remote manipulator arm for space applications 09 p1295 N84-18462
PETKAU, A. J.
Numerical methods for Bayes sequential decision problems
[AD-A140418] 16 p2551 N84-26369
PETLENKO, I. A.
Objectivization of evaluation of speech intelligibility during flights 02 p0261 N84-11713
PETLEY, D. H.
Filler bar heating due to stepped tiles in the shuttle orbiter thermal protection system 01 p0024 N84-10155
Steady internal flow and aerodynamic loads analysis of shuttle thermal protection system
[NASA-TP-2255] 10 p1439 N84-19393
PETLYUK, V. K.
Simulation of cerebrocranial trauma for evaluation and development of gear to protect pilots against impacts
02 p0259 N84-11695
PETRE, R.
Soft X-ray spectral observations of quasars and high X-ray luminosity Seyfert galaxies
[NASA-TM-85118] 04 p0619 N84-14082
PETRENKO, A. M.
Stability of mechanical properties of cold-drawn rolled metal with high-temperature thermomechanical treatment
[BLL-M-35292-(5828.4)] 06 p0803 N84-15233
PETRENKO, V.
Elektrotopograf experiment on Salyut-7
05 p0633 N84-14163
PETRI, R. J.
High-temperature molten salt thermal energy storage systems for solar applications
[NASA-CR-167916] 06 p0873 N84-15679
PETRI, W. H. F.
Redox thermodynamics of surface-bound reactants. Illustrative behavior of Cobalt(3)/(2) macrobicyclic cage complexes
[AD-A139058] 13 p1957 N84-22723
PETRICK, S. W.
Radiative cooler
[NASA-CASE-NPO-15465-1] 13 p1988 N84-22903
PETRIKAT, K.
Research on the use of metal-organic compounds as photoconductors in electrophotography
[BMFT-FB-T-84-112] 23 p3825 N84-34262
PETRILLO, L.
Evaluation of the attenuation length of a scintillator by means of a computer simulation of the light collection efficiency in long scintillation counters
[NOTA-INTERNA-820] 20 p3176 N84-30169
PETRO, J.
Great sphere fibrations of manifolds
[AD-A132544] 04 p0588 N84-13888
PETROFF, Y.
New results of the ACO storage ring free electron laser
[AD-A137785] 11 p1663 N84-20848
PETROFSKY, J. S.
Cardiovascular and respiratory responses to muscular activity during immersion in water at different temperatures
[AD-A138894] 14 p2185 N84-24094
PETRONZIO, R.
Weak interactions on the lattice
[TH.3774-CERN] 23 p3819 N84-34219
Search for excited quarks
[PREPRINT-383] 23 p3823 N84-34246
PETROSIAN, V.
The interpretation of hard X-ray polarization measurements in solar flares
[NASA-CR-172790] 08 p1246 N84-18142
Hard X-ray and microwave morphology
[NASA-CR-173568] 16 p2582 N84-26559
PETROU, N.
Balloon test project: Cosmic Ray Antimatter Calorimeter (CRAC)
[NASA-TM-77461] 23 p3750 N84-33772
PETROV, A. A.
Control algorithms of Soviet HCS Rusalka for robots analyzed 14 p2188 N84-24113
PETROV, A. L.
Stability of periodic oscillations of almost axisymmetric satellite in plane of elliptical orbit
17 p2650 N84-26945
PETROV, A. P.
Obtaining titanium carbide powder from titanium shavings 12 p1785 N84-21645
Intensity fluctuations during specular reflection of light beams in turbulent atmosphere
18 p2823 N84-27922
PETROV, G. V.
Application of noise waves and scattering/scattering-transfer matrices for noise analysis of microwave mixers
[REPT-S-137] 09 p1305 N84-18529
Design of locked microwave oscillators on basis of scattering parameters of transistors operating in large signal mode 22 p3570 N84-32608
PETROV, M. G.
Predicting fatigue durability of duralumin specimens
24 p3874 N84-34550
PETROV, M. V.
Study of large viscoplastic strains in cylindrical shells by method of magnetic-pulse loading
13 p1972 N84-22798
PETROV, N. N.
Properties of grey cast iron treated with pulsating current during inoculation
[BLL-M-35118-(5828.4)] 01 p0040 N84-10252
Influence of alloying on the properties of nickel in the solid and liquid states
[BLL-M-35284-(5828.4)] 06 p0803 N84-15232
PETROV, Y. N.
Low-cycle fatigue of VT1-0 alloy and changes in its fine structure at temperatures of 293-4.2 deg K
23 p3708 N84-33509
PETROVA, N. I.
Diamond synthesis from various graphites
[CSIR-TRANS-1749] 22 p3558 N84-32528
PETROVIC, C.
Evaluation of low melting halide systems for battery applications
[AD-A131330] 02 p0242 N84-11582
PETROVIC, J. J.
Production and characterization of beta-silicon carbide and alpha-silicon nitride whiskers for ceramic matrix composites
[LA-9650-MS] 06 p0797 N84-15197
PETROVSKIY, G. T.
Newly discovered effect of interaction of optical radiation and glass 21 p3482 N84-32069
PETRUCCI, S.
Kinetics of complexation of the macrocycles 18C6 and 12C4 ethers with LiAsF-6 in 1,2-dimethoxyethane at 25 deg C
[AD-A143086] 21 p3359 N84-31304

PETRUSANIS, M. F. R. D. O.
Virtual Z-trees: A balancing technique for multiway search trees
[INPE-3093-TDL/164] 16 p2547 N84-26348
PETRUSENKO, A. N.
Human stomach motor and evacuatory functions during antiorthostatic hypokinesia 20 p3253 N84-30649
PETRUSHIN, N. V.
Carbide phases in high-temperature nickel-hafnium alloys 24 p3871 N84-34532
PETRY, J.
Simulation of linear multivariable systems with piecewise continuous input functions and with various options for graphic representation of the results
[ESA-TT-749] 16 p2544 N84-26333
PETSCHEK, A. G.
Gamma-burst emission from neutron-star accretion
[NASA-TM-85436] 07 p1094 N84-17112
PETTENGILL, G.
Venus: Global distribution of Pioneer-Venus radar roughness and reflectivity and global correlation of altimetry, roughness and reflectivity observations 13 p2077 N84-23461
PETTERS, C.
Fast Multi Purpose Combat Craft Concept (FMPCC) for a high speed naval craft
[MBB-UT-18-82-OE] 02 p0207 N84-11351
PETTERSSON, L.
Study of wind scatterometer antenna for ERS-1. Volume 1: Executive summary report
[Y/A-3380] 13 p2017 N84-23080
Study of windscatterometer antenna for ERS-1
[MIX/A-3188] 13 p2018 N84-23081
PETTINI, M.
The broad absorption line region in NGC 4151 24 p3971 N84-35146
PETTIT, F. S.
Fundamental research directed to advanced high temperature coating systems beyond the current state-of-the-art systems
[AD-A131618] 02 p0194 N84-11261
Interactions between erosion and corrosion of metals and alloys at elevated temperatures
[AD-A141410] 19 p2993 N84-28968
PETTIT, R.
Development of catalysts for the utilization of carbon monoxide
[DE84-005475] 11 p1629 N84-20659
PETTIT, R. B.
Development of a portable specular reflectometer for monitoring solar-mirror materials
[DE83-016065] 03 p0442 N84-12901
PETTITT, A. N.
Robust estimation with censored and grouped data: An application of the EM algorithm
[MATHS-RES-174] 07 p1067 N84-16927
Inference based on ranks with multiple failure time or grouped survival data
[MATHS-RES-177] 20 p3200 N84-30324
PETTITT, M. R.
Acoustic environmental accuracy requirements for response determination
[NASA-CR-171003] 13 p2039 N84-23234
PETTY, S. M.
Superconducting niobium thin film slow-wave structures 04 p0518 N84-13405
PETUCHOWSKI, S. J.
Extended laser sensor
[AD-D011011] 19 p3029 N84-29214
PETZENHAUSER, I.
Development of silicon nitride gas turbine components, phase 2
[BMFT-FB-T-83-322] 15 p2262 N84-24591
PETZOW, G.
On the structure of the uranium-niobium-chromium-system
[BLL-TRANS-1104-(7291.7965)] 19 p2991 N84-28954
PEUQUET, D.
Activities of the Remote Sensing Information Sciences Research Group
[E84-10177] 21 p3427 N84-31739
Advanced data structure and geographic information systems 21 p3427 N84-31742
Knowledge based engineering for spatial database management and use 21 p3428 N84-31745
PEUSE, B. W.
Quantum optics and photonics 22 p3682 N84-33344
PEYCLIT, D.
Optical density radiation dose relationship
[CETIM-100680] 21 p3497 N84-32162
PEYGHAMBARIAN, N.
Optical bistability: A novel approach to optical signal processing and communications 12 p1905 N84-22411
Room-temperature thermal optical bistability in thin-film interference filters and dye-filled etalons 14 p2234 N84-24402
Optical nonlinearity and bistability due to the biexciton two-photon resonance in CuCl 14 p2239 N84-24441
PEYRAN, R. J.
Spacelab 4: Primate experiment support hardware 15 p2348 N84-25092
PFAENDTNER, J.
A user friendly operating system for the GLAS 4th order forecast-analysis system 12 p1853 N84-22072
Documentation of the GLAS fourth order general circulation model. Volume 1: Model documentation
[NASA-TM-86064-VOL-1] 14 p2179 N84-24048
Documentation of the GLAS fourth order general circulation model. Volume 2: Scalar code
[NASA-TM-86064-VOL-2] 14 p2179 N84-24049
Documentation of the GLAS fourth order general calculation model. Volume 3: Vectorized code for the Cyber 205
[NASA-TM-86064-VOL-3] 14 p2179 N84-24050
PFAFF, E.
Investigations into the burning-out of organic substances in the ceramic body
[NASA-TM-77065] 01 p0049 N84-10315
PFALTZGRAFF, R. L., JR.
Transatlantic policy divergencies: Implications for the United States
[AD-A140574] 17 p2773 N84-27606
PFANNKUCH, H.
Geology, hydrology, and mineral resources of crystalline rock areas of the Lake Superior region, US, part 1
[DE84-012682] 21 p3432 N84-31775
PFAU, C. E.
The source of Mangalia Vales 15 p2426 N84-25573
PFAU, J. P.
Ultraviolet curable resin system for rapid runway repair
[AD-A130364] 01 p0016 N84-10104
Development of a corrosion control, nonemissive paint for the protection of bilge spaces
[AD-A136270] 09 p1287 N84-18402
Heat: Initiated furan resin for rapid runway repair
[AD-A140902] 17 p2611 N84-26713
PFEFFER, H.
The ESA activities on future launchers 16 p2441 N84-25657
PFEFFER, R.
Proceedings of the 4th International Conference on Physicochemical Hydrodynamics
[DE83-012765] 04 p0537 N84-13532
PFEIFFER, P.
Modeling of concrete response at high temperature
[DE84-009587] 22 p3564 N84-32570
PFEIFFER, P. A.
Blunt-crack band propagation in finite-element analysis for concrete structures
[DE83-010726] 01 p0097 N84-10632
PFEIFROTH, F.
The project library PLUS: A general overview 05 p0724 N84-14751
PFEILSTICKER, K.
The Project STRAFAM: Test of a new parachute based instrument carrier for stratospheric research
[BMFT-FB-W-84-021] 21 p3445 N84-31859
PFEUFER, V.
Electric-dipole moment of CaF by molecular-beam, laser-RF, double-resonance study of Stark splittings
[DE84-005413] 15 p2405 N84-25439
PFISTERER, F.
Technical use of solar energy. Part 1. Thin films solar cells
[BMFT-FB-T-83-298-PT-1] 15 p2362 N84-25172
PFLEIDERER, H.
Amorphous silicon solar cells
[BMFT-FB-T-83-112] 02 p0243 N84-11590
PFLEIDERER, J.
Data set description and bias 09 p1408 N84-19197
Correction of data-quality induced bias 09 p1409 N84-19209
PFLEIDERER, K.
Modern helicopter development in Germany
[MBB-UD-395-83-O] 14 p2105 N84-23627
PFLUGRATH, J. C.
Was the early Earth completely molten? 11 p1755 N84-21460
PFUDERER, H. A.
Guide to the bibliographic format used by the Carbon Dioxide Information Center
[DE84-004109] 09 p1280 N84-18361
PHANEUF, R. A.
Indirect processes in electron-ion scattering
[DE84-002381] 05 p0745 N84-14897
PHATAK, A. V.
Investigation of image enhancement techniques for the development of a self-contained airborne radar navigation system
[NASA-CR-166530] 16 p2445 N84-25684
VTOL shipboard lstdown guidance system analysis
[NASA-CR-166519] 16 p2451 N84-25716
PHEANIS, D. C.
Intelligent editor/printer enhancements
[NASA-CR-170965] 09 p1364 N84-18909
PHELINES, R. F.
Integrated budget control using a desktop computer 05 p0717 N84-14697
PHELPS, A. E.
Helicopter anti-torque system using strakes
[NASA-CASE-LAR-13233-1] 23 p3692 N84-33400
PHELPS, A. V.
Electron excitation of vibrational states of D2 and H2 and detection of excited states by laser-induced fluorescence
[AD-A141038] 18 p2846 N84-28070
PHELPS, G. W.
The role of water in slip casting
[NASA-TM-77578] 14 p2134 N84-23786
PHELPS, H. L.
A research program in determination of heavy metals in sediments and benthic species in relation to nuclear power plant operation
[NASA-CR-173537] 15 p2366 N84-25195
PHELPS, R. H.
Nonlaboratory techniques for the study of cognitive and decision-making processes: A description and selected bibliography
[AD-A141732] 19 p3067 N84-29458
PHERSON, D.
Economic application of assembly robots: Elements of sensor applications to programmable feeders
[PB84-193200] 21 p3415 N84-31656
PHIL, D.
Cardiovascular and respiratory responses to muscular activity during immersion in water at different temperatures
[AD-A138894] 14 p2185 N84-24094
PHILBRICK, C. R.
Properties of the neutral density and composition in the thermosphere
[AD-A131557] 03 p0407 N84-12665
PHILIPP, H. K.
Receiver concepts for data transmission at 10 microns 24 p3905 N84-34732
PHILIPPIDES, A.
High-voltage analytical electron microscopy
[DE83-014318] 01 p0085 N84-10554
PHILIPS, D.
Now: An initial approach to collection of major material systems actual costs
[AD-A139845] 15 p2416 N84-25505
Results of a research study to identify historical RDTE (Research, Development, Test and Evaluation) obligations and expenditures on major Army materiel and non-materiel systems
[AD-A139328] 15 p2416 N84-25508
PHILLION, D. W.
Creation of ultra-high-pressure shocks by the collision of laser-accelerated disks: Experiment and theory
[DE83-017366] 03 p0382 N84-12486
PHILLIPE, J. J.
Comparison of calculated and measured pressures on straight and swept-tip model rotor blades
[NASA-TM-85872] 07 p0947 N84-16143
PHILLIPS, B. A.
Development of a residential gas-absorption heat pump
[DE83-017218] 04 p0536 N84-13526
PHILLIPS, B. B.
Applications of airborne remote sensing in atmospheric sciences research 17 p2715 N84-27286
PHILLIPS, B. R.
Fuel system research and technology: An overview of the NASA program 14 p2108 N84-23641
PHILLIPS, D. R.
The hardwood resource on nonindustrial private forest land in the southeast Piedmont
[PB83-252759] 04 p0556 N84-13663
PHILLIPS, G. E.
Development of soft X-ray streak cameras at Lawrence Livermore National Laboratory
[DE83-015841] 10 p1499 N84-19797
PHILLIPS, G. W.
Program PREGA pivotal regression analysis of gamma-ray spectra from NaI(T1) detectors for the ND6620 computer
[AD-A141539] 19 p3077 N84-29520
PHILLIPS, J. A.
Observations of ramped current operation in ZT-40M
[DE84-015076] 23 p3829 N84-34286

PHILLIPS, N. E.
Specific heat of He-3 in the Fermi liquid region
[DE83-011586] 08 p0924 N84-16009
Specific heat of He-3 in the Fermi-liquid region
[DE83-014858] 08 p1162 N84-17566
PHILLIPS, O. M.
On the response to ocean surface currents in synthetic aperture radar imagery 17 p2718 N84-27304
PHILLIPS, P. J.
Effect of processing conditions on the reliability of crosslinked polyethlene cable insulation
[DE84-014902] 22 p3560 N84-32546
PHILLIPS, P. S.
Wave drag as the objective function in transonic fighter wing optimization
[NASA-TP-2265] 08 p1096 N84-17127
PHILLIPS, P. W.
Flight test derived heating math models for critical locations on the orbiter during reentry
01 p0023 N84-10147
PHILLIPS, R. D.
Biological effects of electric fields: An overview
[DE84-005888] 12 p1864 N84-22144
PHILLIPS, R. H.
Microprocessor enhanced real time manual control of an industrial robot
[DE84-011805] 21 p3413 N84-31645
PHILLIPS, R. J.
Demountable coaxial electrical connector for in-line amplifiers
[AD-D011074] 19 p3017 N84-29128
Interior of the Earth 20 p3218 N84-30443
PHILLIPS, R. R.
Demonstration of SQUID (Superconducting QUantum Interference Device) parametric amplifier
[AD-A141326] 18 p2834 N84-27992
PHILLIPS, S.
Pyrotechnic clear path egress system for the T-38 trainer aircraft
[AD-P003184] 17 p2589 N84-26597
PHILLIPS, S. L.
Density of sodium chloride solutions at high temperatures and pressures
[DE84-004883] 10 p1456 N84-19508
PHILLIPS, S. W., III
A practical terrestrial packet radio network
[AD-A139162] 14 p2140 N84-23829
PHILLIPS, T. G.
Neutral carbon in the Egg Nebula (AFGL 2688)
[NASA-TM-84360] 16 p2574 N84-26518
PHILLIPS, T. N.
A finite difference scheme for the equilibrium equations of elastic bodies
[NASA-CR-172293] 08 p1170 N84-17621
A modified least squares formulation for a system of first order equations
[NASA-CR-172372] 19 p3062 N84-29557
PHILLIPS, W. D.
Laser-Cooled and Trapped Atoms
[PB83-236196] 02 p0192 N84-11249
Laser cooling and trapping of neutral atoms
[AD-A134333] 07 p1009 N84-16547
PHILLIPS, W. E.
Measurement techniques for high-power semiconductor materials and devices
[DE84-010425] 20 p3309 N84-31016
PHILLIPS, W. H.
Solar powered aircraft
[NASA-CASE-LAR-12615-1] 03 p0330 N84-12154
Effect of structural flexibility on the design of vibration-isolating mounts for aircraft engines
[NASA-TM-85725] 07 p1016 N84-16590
PHILLIPS, W. M.
Complete Bouguer gravity anomaly map, Cascade Mountains, Washington
[DE84-012548] 21 p3445 N84-31856
PHILPOTT, M. R.
Theory of surface enhanced Raman scattering: A prospective view
[AD-A138320] 12 p1793 N84-21690
Surface plasmon-enhanced Raman scattering at thin silver films
[AD-A138321] 12 p1793 N84-21691
The potential dependence of surface plasmon-enhanced second harmonic generation at thin film silver electrodes
[AD-A138322] 12 p1793 N84-21692
Surface-enhanced Raman spectroscopy of electrochemically characterized interfaces. Relations between Raman scattering intensity and surface coverage for simple anionic adsorbates
[AD-A139054] 13 p1957 N84-22721
Raman and infrared spectroscopy of molecules adsorbed on metal electrodes
[AD-A143466] 22 p3547 N84-32454
The interpretation of very low frequency Raman scattering from roughened silver electrodes: Clusters, cavities or complexes?
[AD-A143471] 22 p3657 N84-33184
Second harmonic generation at thin film silver electrodes via surface polaritons
[AD-A143597] 23 p3824 N84-34254
PHILPUT, C. B.
A review and evaluation of research concerning the performance effects of nuclear radiation
[AD-P003295] 18 p2908 N84-28445
PHIPPS, D. A.
Investigation of the dynamic properties of an elastomer bush
[BU-283] 15 p2255 N84-24543
PHIPPS, G. S.
Optical analysis of a gimballed mirror system
[DE83-016576S] 02 p0295 N84-11934
PHIPPS, J. K.
Vapor degreaser/ultrasonic cleaner solvent evaluation
[DE84-002015] 04 p0508 N84-13331
PHISTER, P. W., JR.
Protocol standards and implementation within the digital engineering laboratory computer network (DELNET) using the universal network interface device (UNID). Part 2
[AD-A138119] 12 p1806 N84-21777
Protocol standards and implementation within the digital engineering laboratory computer network (DELNET) using the Universal Network Interface Device (UNID), part 1
[AD-A138481] 12 p1892 N84-22320
PHKO, J.
An algorithm for additive representation of positive integers
[ISSN-0355-0087] 12 p1892 N84-22325
PHOENIX, S. L.
Probabilistic models of the stress-rupture of composite materials: Summary
[DE84-013477] 22 p3545 N84-32441
PIACSEK, S. A.
Statistics of vertical shear from a hemispheric model
[AD-A136179] 10 p1543 N84-20111
PIAN, T. H. H.
New variational formulations of hybrid stress elements
21 p3420 N84-31690
PIANCA, G.
Model mission study for laser synchronization of clocks
[SNIAS-221-CA/LP] 08 p1162 N84-17569
PIANTONI, E.
Heap pumps marketing problems and the role played by the financial incentives provided by the law 308/82
[CISE-2149] 16 p2487 N84-25950
PIASZCZYK, C. M.
Acoustic radiation from submerged structures at characteristic frequencies 05 p0742 N84-14872
PIAU, P.
Radar bathymetry : A review
03 p0400 N84-12612
PIAZZA, L. R.
Meteor showers effects in the low terrestrial ionosphere detected at VLF ionosonde and long distance propagation paths
[INPE-3242-PRE/588] 24 p3990 N84-35246
PICARD, D.
Asymptotic laws of the tests and rupture estimators in a classical statistical model
[ENST-84C001] 19 p3094 N84-29653
PICARD, L.
Cognitive information processing
22 p3684 N84-33360
PICARDI, G.
A radar signal processor implemented with surface acoustic waves devices 06 p0907 N84-15889
Frequency modulation with noise in a sampled Automatic Frequency Control (AFC) system
17 p2652 N84-26963
PICCHIO, G.
The influence of solar activity on Earth's rotation: Problems of a bivariate analysis
09 p1410 N84-19218
PICCI, G.
On the weak finite stochastic realization problem
[MC-BW-184/83] 07 p1067 N84-16832
PICCIAU, G.
AMIX: An automated system for handling error notification data 05 p0722 N84-14734
PICCINA, A. M.
Research salaries
[INPE-2971-NTE/209] 23 p3832 N84-34307
PICCIONI, A.
Ultraviolet and optical observations of the Cygnus OB2 association: The star 8A 24 p3977 N84-35191
SS Cygni: Accretion disk morphology
24 p3979 N84-35206
Coordinated X-ray, ultraviolet, optical, and infrared observations of the transient source A0535+26
24 p3981 N84-35219
PICCOLO, D.
A unified approach to ARMA (autoregressive-moving average) model identification and preliminary estimation
[AD-A136426] 09 p1381 N84-19020
PICHA, D. G.
Limited performance and flying qualities validation of the SGM 2-37 powered sailplane
[AD-A131445] 02 p0178 N84-11165
PICHAICHANARONG, P.
Supercritical multicomponent solvent coal extraction
[NASA-CASE-NPO-15767-1] 07 p0965 N84-16255
PICHEL, W.
Monitoring of long waves in the eastern Equatorial pacific 1981-1983 using satellite multi-channel sea surface temperature charts
[PB84-190487] 21 p3451 N84-31900
PICHOIR, R.
Practical implications of the use of aluminide coatings for the corrosion protection of superalloys in gas turbines 23 p3703 N84-33476
PICHUGIN, V. S.
Deformability and bearing strength of shells made on release mandrel 23 p3707 N84-33498
PICK, M.
The ISPM experiment for spectral, composition and anistropy measurements of charged particles at low energie 09 p1261 N84-18235
PICKARD, A. C.
The development of advanced specimen testing and analysis techniques applied to fracture mechanics lifing of gas turbine components
[PNR-90179] 13 p1933 N84-22575
PICKARD, B. G.
Small gravitationally elicited voltage transients in pea stems 09 p1352 N84-18838
Participation of ethylene in gravitropism
09 p1359 N84-18878
PICKELMANN, L.
Investigation of electrochromic effects for display application
[BMFT-FB-T-83-212] 10 p1457 N84-19519
PICKENS, J. R.
Powder metallurgy of light metal alloys for demanding applications
[AD-A142066] 21 p3366 N84-31352
PICKERING, H. W.
The effect of gas bubbles and cavity dimensions on the local electrode potential within pits, crevices and cracks
[AD-A134729] 08 p1132 N84-17364
On the limiting electrode potential in cavities and its role in deciding between SCC (Stress Corrosion Cracking) and HC (Hydrogen Cracking) in metals
[AD-A138585] 13 p1955 N84-22713
PICKETT, D. F., JR.
Prediction model for the life of nickel-cadmium batteries in geosynchronous orbit satellites
23 p3737 N84-33686
PICKETT, D. H.
Analysis of symmetric reinforcement of quasi-isotropic graphite-epoxy plates with a circular cutout under uniaxial tensile loading
[AD-A139998] 15 p2285 N84-24715
PICKETT, H. M.
Submillimeter, millimeter, and microwave spectral line catalogue
[NASA-CR-173899] 22 p3546 N84-32448
PICKETT, J. S.
Effects of chemical releases by the STS-3 Orbiter on the ionosphere
[NASA-CR-171032] 15 p2367 N84-25204
PICKETT, W. E.
Extensions of the theory of the electron-phonon interaction in metals: A collection
[AD-A134140] 07 p1079 N84-17018
PICKLES, T. R.
Development of a GIFTS (graphics-oriented interactive finite-element time-sharing system) plotting package compatible with either PLOT10 or IBM/DSM graphics
[AD-A132195] 04 p0581 N84-13833
PICKLES, W. L.
Vacuum measurements on the tandem mirror experiment upgrade (TMX-U) fusion experiment
[DE83-017836] 03 p0448 N84-12946
PICKREL, E. W.
Color perception and ATC job performance
[AD-A132649] 06 p0890 N84-15781
PICKUP, N.
Free jet feasibility study of a thermal acoustic shield concept for AST/VCE application: Single stream nozzles
[NASA-CR-3758] 19 p3096 N84-29661

PICKUP, P. G.
Polymer coated electrodes in ambient temperature molten salts
[AD-A133202] 06 p0801 N84-15220
Electrochemical polymerization of pyrrole and electrochemistry of polypyrrole films in ambient temperature molten salts
[AD-A139174] 14 p2122 N84-23716
PICOLOGLOU, P.
Liquid metal breeder-coolant blanket concept
[DE84-006554] 20 p3302 N84-30971
PICONE, J. M.
Theory of beam channel hydrodynamics
[AD-A139595] 14 p2229 N84-24365
Theory of vorticity generation by shock wave and flame interactions
[AD-A144432] 24 p3880 N84-34582
PICONE, S.
The 20 GHz solid state transmitter design, impatt diode development and reliability assessment
[NASA-CR-174716] 23 p3741 N84-33715
PICRAUX, S. T.
Axial-channeling studies of strained layer superlattices
[DE83-013309] 01 p0154 N84-11010
Proceedings of the Workshop on Ion Mixing and Surface Layer Alloying
[AD-A131469] 02 p0289 N84-11895
Proceedings of the Workshop on Ion Mixing and Surface Layer Alloying
[DE83-015354] 03 p0455 N84-12994
Physics of ion implantation: Ion-cascade processes and physical state of the implanted solid
[DE83-017152] 03 p0455 N84-12998
Measurement of precipitate nucleation times in molten metals by pulsed surface melting
[DE84-002383] 05 p0656 N84-14311
Ion channeling analysis of GaAs/sub x/P/sub 1-x/GaP strained-layer superlattices
[DE84-002536] 05 p0755 N84-14952
Line-source E-beam crystallization of silicon-on-insulator films
[DE84-003218] 07 p0999 N84-16478
Comparison of thermal, line-source electron beam and CW laser annealing for the fabrication of ErSi/sub 2 Schottky barrier on Si
[DE84-003105] 07 p1081 N84-17031
Resonance between channeled particle wavelengths and periodicity of strained-layer superlattices
[DE84-002173] 07 p1081 N84-17032
Friction and wear reduction of 440C stainless steel by ion implantation
[DE84-003255] 08 p1133 N84-17371
PIECZYSKA, E.
Acoustic emission accompanying phase change in deformed 1H18N9T steel
[ISSN-0208-5658] 19 p2991 N84-28952
PIEKUTOWSKI, A. J.
FOD (Foreign Object Damage) generation by aircraft tires
[AD-A133319] 06 p0786 N84-15146
Simulation of exposure of aircraft transparencies to flight line environment
[AD-P003212] 17 p2594 N84-26625
PIEPER, G. W.
Applied mathematical sciences research at Argonne
[DE83-3014268] 03 p0426 N84-12788
PIEPER, S. C.
Quantum-mechanical calculations of the properties of liquid He droplets
[DE84-000164] 04 p0491 N84-13220
PIEPRZYK, R.
Transonic flow over an isolated profile and through a cascade of blade. Phenomenological analysis
05 p0626 N84-14118
PIER, J. R.
A study of A- and B-type stars in the southern galactic halo 04 p0618 N84-14077
PIERCE, A. D.
Analytical modeling of random thermal fluctuations in the NORDA (Naval Ocean Research and Development Activity) high-frequency sound scattering facility
[AD-A142520] 20 p3250 N84-30630
PIERCE, B.
A study of the interaction of millimeter wave fields with biological systems
[AD-A144150] 24 p3935 N84-34910
PIERCE, B. J.
Low altitude simulator training: A-10 aircraft
[AD-A130794] 01 p0016 N84-10106
PIERCE, J. N.
Adaptive techniques for troposcatter
[AD-A142226] 19 p3008 N84-29066
PIERCE, R. D.
Moltencarbonate fuel cells, development status
[DE84-000612] 04 p0529 N84-13480
Advanced fuel-cell development
[DE84-002685] 05 p0676 N84-14445
Advanced fuel cell development
[DE84-008964] 18 p2834 N84-27994
Extreme value estimates for arbitrary bandwidth Gaussian processes using the analytic envelope
[AD-A141685] 19 p3086 N84-29591
Molten carbonate fuel cell cathode development
[DE84-012101] 21 p3395 N84-31544
PIERCY, B. W.
Adjustable self-releasing hook
[AD-D011082] 22 p3604 N84-32834
PIERI, D.
Geomorphic clues to the Martian volatile inventory. 1: Flow ejecta blankets 13 p2079 N84-23474
Effusion rate, length, and area relationships for some lava flows on Hawaii and Mount Etna with planetary implications 13 p2080 N84-23482
Geomorphic clues to the Martian volatile inventory: Landslides 13 p2086 N84-23516
PIERI, D. C.
NASA Oceanic Processes Program, fiscal year 1983
[NASA-TM-86248] 14 p2183 N84-24078
PIERINI, G. C.
Environment-independent homogenized parameters for neutron diffusion in non-symmetric slabs
[CISE-2117] 16 p2555 N84-26392
PIERINI, S.
On the stability of boundary-induced flows and modons
[PREPRINT-372] 21 p3403 N84-31591
PIERRE, M.
Singularities connected with a trace on a Banach algebra 22 p3634 N84-33034
PIERRET, R. F.
Monolithic ZnO SAW (Surface Acoustic Waves) structures
[AD-A135987] 09 p1309 N84-18557
PIERSMA, H. J. D.
Analysis of POPSAT gravity model errors
[ESA-CR(P)-1883] 17 p2615 N84-26737
PIERSON, E. S.
Magnetohydrodynamic power generation, electromagnetic pumps, heat pipes, and thermionic convertors
[DE84-009195] 15 p2411 N84-25475
PIERSON, W.
Psychological and biochemical effects of a stress management program
[AD-P003300] 18 p2909 N84-28447
PIERSON, W. J.
Oceanographic and meteorological research based on the data products of SEASAT
[E84-10077] 07 p1021 N84-16624
PIERSON, W. J., JR.
Does the scatterometer see wind speed or friction velocity? 17 p2713 N84-27270
Vector wind, horizontal divergence, wind stress and wind stress curl from SEASAT-SASS at one degree resolution 17 p2720 N84-27313
Synoptic scale wind field properties from the SEASAT SASS
[E84-10169] 21 p3426 N84-31732
PIERZGA, M. J.
Investigation of the three-dimensional flow field within a transonic fan rotor: Experiment and analysis
[NASA-TM-83739] 22 p3531 N84-32357
PIESER, W.
En route/terminal ATC (Air Traffic Control) operations concept
[AD-A138991] 13 p1929 N84-22550
PIETERS, C. M.
Surface compositions in the Aristarchus Region: Implications for regional stratigraphy
13 p2087 N84-23519
PIETERS, G. C.
Investigation of high efficiency large TBW line acoustic wave convolvers
[AD-A135686] 09 p1387 N84-19056
PIETERSEN, O. B. M.
Electromagnetic compatibility in aerospace vehicles
[NLR-MP-83002-U] 15 p2320 N84-24929
PIETRAFESA, L. J.
Continental shelf processes affecting the oceanography of the South Atlantic Bight
[DE84-010113] 20 p3251 N84-30635
PIETRAFESS, L.
South Atlantic physical oceanography study (year 5). Volume 1: Executive summary
[PB84-187855] 21 p3451 N84-31899
PIETRZYK, Z. A.
Study of stimulated Brillouin and Raman scattering
[DE84-011260] 20 p3194 N84-30286
PIFER, J. H.
High pressure electron resonance studies of electronic, magnetic, and structural phase transitions
[DE84-008814] 18 p2941 N84-28653
PIFKO, A. B.
Implementation of elastic-plastic structural analysis into NASTRAN 06 p0860 N84-15606
PIGEAUD, A.
Development of molten carbonate fuel cell technology
[DE84-004856] 15 p2364 N84-25183
PIGFORD, R. L.
Mass transfer and thermodynamic studies of evaporative freezing of water
[PB84-153501] 17 p2620 N84-26769
Investigation of the crystallization kinetics of an incongruent melting salt hydrate under metastable conditions
[DE84-006666] 19 p3112 N84-29771
PIGFORD, T. H.
Geologic disposal of radioactive waste, 1983
[DE84-002890] 07 p1074 N84-16982
PIGORS, O.
Abrasive wear of steel during sliding or rolling
[BLL-CE-TRANS-8003-(9022.09)] 19 p2991 N84-28956
Wear behaviour of steel under the action of granular interfacial minerals
[BLL-CE-TRANS-8002-(9022.09)] 21 p3363 N84-31336
PIHOS, G.
NASA scatterometer research data processing system: Requirements and design 23 p3781 N84-33979
PIIROLA, V.
Circular polarimetry of the magnetic compact binary AM Herculis 09 p1414 N84-19251
PIKE, C.
A high current heavy ion beam transport experiment at LBL
[DE84-009225] 20 p3294 N84-30912
PIKE, C. D.
The current status and future upgrade of the PDS at the Royal Greenwich Observatory 18 p2840 N84-28031
PIKE, C. P.
Space systems environmental interactions technology program
[AD-P002125] 16 p2525 N84-26211
PIKE, R. J.
Ring spacing of Mercurian multi-ring basins and basin ring formation 13 p2078 N84-23464
Ode to gravity: Depth/diameter for fresh craters on Mercury 13 p2079 N84-23470
PIKHTELEV, A. I.
Source of optical pumping for high-resolution spectroscopy with semiconductor laser 21 p3482 N84-32070
PIKKAARAINEN, T.
Observations of short period magnetic pulsations during the SBARMO-79 campaign: Data summary
[REPT-90/1982] 13 p2012 N84-23052
PIKUNOV, M. V.
A procedure for determining the tempo at which alloys solidify
[BLL-M-35642-(5828.4)] 22 p3553 N84-32497
PIKUS, G. Y.
Polarization of paraexciton luminescence in Cu2O crystals in magnetic field 20 p3287 N84-30870
PIKUS, I. M.
Structure and properties of amorphous powder material after explosive loading 24 p3870 N84-34526
PILCHOWSKI, H. U.
Study of the numerical solution of some diffusion problems using the finite element method
[INPE-3003-TDL/154] 17 p2757 N84-27504
PILIE, R. J.
The role of vegetation in the low-level water budget in fog
[AD-A139099] 14 p2179 N84-24051
PILKEY, R. D.
Gauge block isometer development
[DE83-018288] 03 p0378 N84-12458
PILLSBURY, R. D., JR.
Safety and protection for large-scale superconducting magnets. A FY 1982 report
[DE83-012961] 01 p0154 N84-11013
Passive and active circuits for vertical plasma stabilization
[DE84-008857] 18 p2933 N84-28599
PILOS, A. S.
Sensitivity analysis of predicted reacting flow characteristics in solid fuel ramjet combustors
[AD-A141279] 18 p2796 N84-27740
PIMBLEY, G. H.
Semigroup associated with a quasi-linear system in which the coupling is linear
[DE84-004227] 11 p1719 N84-21210

PIMENTAL, N. A.
Differentiated ratings of perceived exertion and selected physiological responses during prolonged upper and lower body exercise
[AD-A134086] 06 p0887 N84-15769
Physiological responses to prolonged upper body exercise
[AD-A134811] 08 p1200 N84-17826
Anthropometric changes at high altitude
[AD-A140311] 16 p2535 N84-26277
Upper body exercise performance: Comparison between women and men
[AD-A142330] 19 p3066 N84-29454
PIMENTEL, L. O.
Gravitational perturbation of the hydrogen spectrum
02 p0251 N84-11646
PIN, F. G.
Conductivity mapping of underground flow channels and moisture anomalies in carbonate terrain using electromagnetic methods
[DE84-004098] 08 p1178 N84-17677
PINA, C. A.
Product assurance technology for procuring reliable, custom LSI/VLSI electronics
[NASA-CR-173405] 12 p1812 N84-21810
PINCOSY, P. A.
Electron emitting filaments for electron discharge devices
[DE84-011098] 20 p3180 N84-30201
PINDZOLA, M. S.
Indirect processes in electron-ion scattering
[DE84-002381] 05 p0745 N84-14897
PINES, A.
SPEC-DOC: A user's guide to spectrometer software
[DE83-013295] 02 p0274 N84-11790
PINET, A.
The effect of water on the dielectric performance of a cable
[BLL-OA-TRANS-2634-(6196.3)] 04 p0524 N84-13447
PING, C.
Physical modeling of the champagne effect
[DE84-001813] 04 p0516 N84-13388
PING, W.
A study of the tempering transformation of retained austenite in isothermal quenching structures, bainite tempered embrittlement 20 p3159 N84-30065
PINGALI, K.
Efficient demand-driven evaluation (2)
[AD-A133879] 05 p0727 N84-14776
Efficient demand-driven evaluation
[AD-A133477] 06 p0898 N84-15627
PINKERTON, M.
Proceedings of the 13th Conference on Environmental Toxicology
[AD-A134150] 07 p1027 N84-16657
PINKNEY, R. B.
Static and dynamic behavior of mechanical components associated with electrical transmission lines
10 p1505 N84-19844
PINKUS, A.
Optimal reconstructions and n-widths
[AD-A133576] 06 p0902 N84-15853
PINNELL, W. R.
In-flight measurement of pressure distribution over T-38 student canopy
[AD-P003207] 17 p2593 N84-26620
A triangulation technique for obtaining deflections of aircraft transparencies during bird impact testing
[AD-P003220] 17 p2595 N84-26633
PINNINGTON, R. J.
The dynamic in plane response at the centre of a rotating elastic disc due to oscillatory in plane forces at the rim
[ISVR-TR-121] 04 p0548 N84-13613
PINTER, R. S.
Materials properties data base computerization
12 p1889 N84-22303
PINTO, I. R. C. A.
Vertical mapping of quasistatic and large scale ionospheric electric fields in low latitudes
[INPE-2838-PRE/385] 02 p0247 N84-11618
PINTO, O., JR.
Vertical mapping of quasistatic and large scale ionospheric electric fields in low latitudes
[INPE-2838-PRE/385] 02 p0247 N84-11618
PINTO, R. L. U. D.
Study of the optimal control problem solving in the Bolza form by the finite element method
[INPE-2750-PRE/326] 04 p0588 N84-13884
PINTO, S. D. A. F.
Research and applications of data from environmental satellites: Determining parameters and developing interpretation techniques for applications of environmental satellite data
[INPE-3005-NTE/213] 17 p2711 N84-27261
PINTZ, A.
Dynamics of early planetary gear trains
[NASA-CR-3793] 16 p2498 N84-26027
PIONTELLI, R.
Research into the electrodeposition of antimony
[BLL-OA-TRANS-3112-(6196.3)] 09 p1305 N84-18533
PIOTROWSKI, T.
A program for developing automated scientific-information processing in maritime economy
[AD-A135518] 08 p1240 N84-18107
PIOTROWSKI, W. S.
K-band latching switches
[NASA-CR-168253] 15 p2327 N84-24973
PIPER, L. B.
Laser Induced Chemistry. 1984 JPM Specialist Session
[AD-A142922] 21 p3372 N84-31400
PIPER, L. G.
O-atoms yields from microwave discharges in N2O/Ar mixtures
[AD-A130429] 14 p2137 N84-23808
PIPES, R. B.
Influence of constituent properties and geometric form on behavior of woven fabric reinforced composites
[NASA-CR-173326] 09 p1275 N84-18326
Observations on the fracture of fiberous composites
15 p2311 N84-24865
PIPHER, J. L.
Abundances in galactic H2 regions, 3: G25.4-0.2, G45.5+0.06, M8, S159 and DR22
[NASA-TM-85962] 17 p2774 N84-27616
PIPKIN, F. M.
Measurement of lifetimes of the vibrational levels of the B state of N2
[AD-A142161] 19 p3101 N84-29702
PIPPERT, E. B., JR.
Flight data file: STS-4 crew activity plan
[NASA-TM-85502] 19 p2978 N84-28881
PIPPI, I.
The Istituto di Ricerca sulle Onde Elettromagnetiche (IROE)-lidar remote sensing of the environment
03 p0396 N84-12590
PIRAINO, P.
Regional correlation between TOMS total ozone from NIMBUS-7 satellite and geopotential height from the GLAS analysis 12 p1851 N84-22056
Improved HIRS2/MSU soundings using tropopause information 12 p1851 N84-22060
A new algorithm for tuning of computed radiances for HIRS2/MSU 12 p1852 N84-22063
The prediction of tropopause height from clusters of brightness temperatures and its application in the stratified regression temperature retrievals using microwave and infrared satellite measurements 12 p1852 N84-22064
Applications of cluster analysis to satellite soundings 12 p1852 N84-22065
PIRKUL, H.
Computer and database location in designing distributed computer systems 13 p2066 N84-23399
PIRONNEAU, O.
Numerical analysis of boundary value problem of elliptic type by means penalty and the finite difference and its application to free boundary problem
[AD-A132805] 05 p0736 N84-14834
PIRRE, M.
The experiment Phenomena Induced by Charged Particle Beams (PICPAB) on board Spacelab 1
05 p0641 N84-14220
PIRTLE, F. W.
Closed cycle cryocooler for low temperature electronics circuits: Cold end test
[AD-A134043] 05 p0662 N84-14354
PIRUSSKII, M. V.
Fracture resistance of hardened and tempered pipes of 16GFR steel
[BLL-M-35268-(5828.4)] 06 p0857 N84-15584
PIRUZYAN, L. A.
Effect of constant and low-frequency magnetic fields on biological systems 20 p3258 N84-30679
PISACANE, F. J.
Analysis and synthesis of 1,2,4-butanetriol
[AD-A130875] 01 p0052 N84-10338
PISACANE, V. L.
Satellite techniques for determining the geopotential for sea-surface elevations 17 p2717 N84-27298
PISANI, M. E.
Evaluation of process systems for effective management of aluminum finishing wastewaters and sludges
[PB84-170661] 16 p2520 N84-26178
PISANO, W. C.
Value of flow calibration for decision making in infiltration/inflow studies
[PB83-259739] 05 p0682 N84-14483
PISARENKO, V. F.
Characteristic rock dimensions and hierarchical properties of seismicity 18 p2863 N84-28176
PISHCHIK, V.
Innovations in cosmonaut medical monitoring, physical conditioning 21 p3347 N84-31229
Medical research in first 100 days of Salyut-7 flight
21 p3347 N84-31230
PISMEROV, O. B.
Peculiarities in construction of optical receivers for digital fiber-optic communication lines
22 p3568 N84-32596
PISSARENKO, N. F.
Observations of He+ ions in the solar wind
[KGI-PREPRINT-064] 15 p2428 N84-25585
PISTER, K. S.
Optimal design of friction-braced frames under seismic loading
[PB84-119288] 09 p1335 N84-18714
An integrated, optimization-based approach to the design and control of large space structures
[AD-A141856] 19 p2982 N84-28896
PISZCZOR, M. F., JR.
Preliminary design of a 10-kW thermophotovoltaic system for space applications
[NASA-TM-83768] 22 p3543 N84-32427
PITA, C. R. A. M.
West breakwater-Sines (Portugal): Study of armor stability 08 p1194 N84-17788
PITA, G. P.
Droplet size distribution and liquid volume concentration in a water spray: Predictions and measurements
15 p2291 N84-24748
PITCHFORD, L. C.
Transient electron transport in gases
[DE83-009188] 02 p0291 N84-11906
Power-loading effects in gas-discharge models
[DE83-016504] 03 p0368 N84-12393
PITMAN, C. L.
Atmospheric transmittance model for a solar beam propagating between a heliostat and a receiver
[DE84-007980] 18 p2953 N84-28716
PITMAN, S. G.
Environmental assisted fracture of cast and wrought steels in brine
[DE84-011870] 20 p3158 N84-30058
PITRIK, R.
EDDA: A very high level data flow specification language 05 p0722 N84-14735
PITTARELLI, E.
Postprocessing for the UCLA climate model
12 p1854 N84-22079
PITTMAN, B.
Proceedings of the Large Deployable Reflector Science and Technology Workshop. Volume 1: Executive Summary
[NASA-CP-2275-VOL-1] 18 p2950 N84-28709
PITTMAN, C. M.
Evaluation of a non-catalytic coating for metallic TPS
[NASA-TM-85745] 07 p0974 N84-16312
PITTMAN, C. U., JR.
Synthesis and evaluation of improved electron-beam and X-ray lithographic resist polymers
[AD-A141674] 19 p2999 N84-29006
PITTMAN, J. L.
Body and canard effects on an attached-flow maneuver wing at Mach 1.62
[NASA-TP-2249] 09 p1250 N84-18163
PITTMAN, R. B.
Large Deployable Reflector Science and Technology Workshop. Volume 3: Systems and Technology Assessment
[NASA-CP-2275-VOL-3] 21 p3523 N84-32318
PITTMAN, W. E., JR.
Ground penetrating radar: A review of its application in the mining industry, information circular 1984
[PB84-178292] 20 p3176 N84-30172
PITTS, D. E.
Preliminary evaluation of Thematic Mapper image data quality 20 p3214 N84-30415
Preliminary evaluation of TM for soils information
20 p3216 N84-30427
PITTS, G. C.
Rat body size, composition and growth at hypo- and hypergravity
[NASA-CR-175393] 10 p1545 N84-20126
PITTS, J. A. S.
The historical records of the Naval Research Laboratory: A guide for researchers
[AD-A131620] 02 p0302 N84-11982
PITTS, J. I.
Surface grid generation for wing-fuselage bodies
12 p1870 N84-22186

PITTS, J. R.
Polymer degradation on reflecting metal films: Fourier transform infrared (FTIR) reflection-absorbance studies
[DE83-012129] 03 p0404 N84-12641
PITTS, M.
Empirical studies of upper atmospheric species
[NASA-CR-172437] 21 p3443 N84-31847
PITTS, W. D.
Analysis of laser spot quality
[AD-A138056] 12 p1820 N84-21861
PITZ, R. W.
Applications of laser scattering probes to turbulent diffusion flames
[AD-A138207] 12 p1792 N84-21685
PITZ, W. J.
Chemical kinetics modeling of engine knock: Preliminary results
[DE84-001236] 06 p0802 N84-15226
Structure, inhibition and extinction of polymer diffusion flames
[PB84-101336] 08 p1127 N84-17327
Modeling chemical-kinetic aspects of engine knock
[DE84-009874] 20 p3198 N84-30312
A comprehensive chemical kinetic reaction mechanism for the oxidation of n-butane
[DE84-005739] 22 p3549 N84-32467
Experimental and modeling study of engine knock
[DE84-006134] 22 p3606 N84-32844
PITZER, K. S.
Thermodynamics of condensed ionic systems
[DE84-001823] 05 p0755 N84-14950
Thermodynamics of aqueous sodium chloride to 823 K and 1 kbar
[DE84-001841] 06 p0927 N84-16019
PIVOVAROV, B. L.
Spherical wave refraction with short distances of source from interface 17 p2702 N84-27212
PIWINSKI, D. J.
Demonstration of angular anisotropy in the output of Thematic Mapper
[E84-10095] 10 p1522 N84-19965
PIWINSKI, S. E.
Hyperbaric chamber equipment: A consolidated equipment list from selected multiplace hyperbaric facilities
[AD-A141702] 19 p2970 N84-28820
PIWONKA, T. S.
Porosity and environment 24 p3882 N84-34593
PIWONSKI, W.
Processing elements
[AD-A131068] 03 p0420 N84-12743
PIZAK, G. A.
Investigation of the acoustic characteristics of aircraft/engines operating in a dry-cooled jet engine maintenance test facility 10 p1513 N84-19901
PIZZARELLO, F. A.
Mechanisms and kinetics of diphthalocyanine electrode processes
[AD-A131726] 03 p0349 N84-12270
PIZZELLA, G.
Data analysis for gravitational wave antenna with resonant transducers
[IFSI-82-12] 03 p0363 N84-12360
PIZZO, P. P.
Transmission electron microscopy characterization of microstructural features of Al-Li-Cu alloys
[NASA-TM-84384] 02 p0193 N84-11255
Stress-corrosion behavior of aluminum-lithium alloys in aqueous environments
[NASA-TM-85853] 02 p0193 N84-11256
A surface analytical examination of Stringer particles in Al-Li-Cu alloys
[NASA-TM-85854] 02 p0193 N84-11257
PIZZO, V. J.
Quasi-steady solar wind dynamics
03 p0474 N84-13120
PKKARAINEN, T.
Quick-look tables of continuous pulsations (Pc1) and Intervals of Pulsations of Diminishing Periods (IPDP) magnetic pulsation events recorded in Finland during IMS years 1976-1979: Data summary
[REPT-92/1982] 13 p2012 N84-23053
PLACE, T. A.
Comparison of predicted versus experimentally-determined stresses for crack initiation of surface flaws in a 304 stainless steel and a ferritic steel
[DE84-005481] 11 p1634 N84-20680
PLACE, W.
The predicted impact of linear roof apertures on the energy performance of office buildings
16 p2514 N84-26133
Thermal effects resulting from occupant behavior and building operation 16 p2515 N84-26143
PLACEK, T. D.
Phase and compression behavior in sedimentation and thickening of liquid-solid suspensions
[PB83-249664] 04 p0496 N84-13257
PLAETSCHKE, E.
Estimation of flight-mechanical motion characteristics with Kalman filters 07 p0944 N84-16126
PLAETTNER, R.
Amorphous silicon solar cells
[BMFT-FB-T-83-112] 02 p0243 N84-11590
PLAHOV, N. N.
Effect of the microclimate on the night sleep and physical fitness of seamen during a cruise in the low latitudes
08 p1198 N84-17813
PLAHUTNIK, F.
Development of a polysilicon process based on chemical vapor deposition, phase 1 and phase 2
[NASA-CR-173957] 23 p3786 N84-34015
PLAISTED, D. A.
An interval logic for higher-level temporal reasoning
[NASA-CR-172262] 07 p1053 N84-16821
PLAKHIN, Y. A.
Forming of upper homogeneous layer in Mediterranean basin 17 p2699 N84-27195
PLAKHOTNYY, V. P.
Calculating electric fields in semiconductor structures when singularities are present 21 p3479 N84-32051
PLAKHUTA-PLAKUTINA, G. I.
Structural distinctions of thyroid C cells and parathyroid glands of primates during head-down hypokinesia
15 p2377 N84-25263
PLANELL, J. R.
An assessment of the use of antimisting fuel in turbofan engines
[NASA-CR-168081] 01 p0052 N84-10332
PLANK, G. M.
Experimental investigation of a Hall-current thruster
[NASA-CR-168133] 09 p1274 N84-18321
PLANK, V. G.
Snow characterization instruments
[AD-A131984] 03 p0411 N84-12687
SNOW-ONE-A and B characterization measurements and data analysis
[AD-A141245] 18 p2890 N84-28345
PLANT, W. J.
The dual-frequency scatterometer reexamined
17 p2714 N84-27280
PLANTE, J. F.
Subgroups of continuous groups acting differentiably on the half-line 22 p3634 N84-33028
PLANTEE, M.
Characterization of high powered laser diodes
24 p3904 N84-34728
PLASKIN, I. N.
Precipitation of metals from solutions by baser metals
[CSIR-1712] 06 p0804 N84-15242
PLATEEL, C.
Regeneration efficiency, shuttle heat loss and thermal conductivity in epoxy-composite annualr gap regenerators from 4K to 80K 06 p0818 N84-15335
PLATNER, E. D.
Operation of the Brookhaven MPS Facility
[DE83-015383] 03 p0441 N84-12896
Track chambers for high luminosity
06 p0912 N84-15921
Detecting heavy quark jets 06 p0914 N84-15939
PLATONENKO, N. M.
Economical multiplication of Boolean equations
21 p3484 N84-32079
PLATONOV, M. N.
Light-emitting diode matrix flat screen
22 p3567 N84-32592
PLATT, C. M. R.
Note on the interaction of the cloud layer and ABL, appendix H 18 p2884 N84-28303
PLATTNER, A.
A 60 GHz pulse radar for detection of high voltage power lines
[BMFT-FB-W-84-013] 19 p3009 N84-29077
PLATTS, D. A.
Ohmic heating to 100-eV and helicity injection in CTX
[DE84-007494] 20 p3304 N84-30986
PLATZER, K. H.
Development of temperature-, velocity- and concentration-profiles in a curved combustor
15 p2292 N84-24757
PLATZMAN, L. K.
A fast heuristic based on spacefilling curves for minimum-weight matching in the plane
[AD-A129857] 01 p0129 N84-10846
PLATZNER, I.
Positive ion-molecule reactions in OCS/hydrocarbon mixtures
[AD-A132350] 04 p0493 N84-13237
PLEASANT, L. G.
NASA space biology accomplishments, 1982
[NASA-TM-86244] 04 p0488 N84-13206
NASA space biology accomplishments, 1983-84
[NASA-TM-86654] 20 p3256 N84-30664
Publications of the NASA space biology program for 1980 - 1984
[NASA-TM-86857] 22 p3628 N84-32990
PLEMMONS, R. J.
Research in numerical linear algebra and numerical methods for large-scale least squares and other problems
[AD-A131400] 02 p0280 N84-11838
Orthogonal schemes for structural optimization
[AD-P002954] 14 p2199 N84-24194
Updating LU factorizations for computing stationary distributions
[DE84-007566] 15 p2400 N84-25402
PLENCNER, R.
Supersonic STOVL ejector aircraft from a propulsion point of view
[NASA-TM-83641] 15 p2261 N84-24581
PLENTOVICH, E. B.
Tests of a NACA 65(sub 1)-213 airfoil in the NASA Langley 0.3-meter transonic cryogenic tunnel
[NASA-TM-85732] 10 p1420 N84-19287
Effects of a porous plug on orifice induced static pressure error 12 p1764 N84-21507
PLESCIA, J. B.
Geology of Dione 13 p2074 N84-23444
Cratering history of the Saturnian satellites
13 p2079 N84-23473
A bibliography of planetary geology principal investigators and their associates, 1982 - 1983
[NASA-TM-86249] 19 p3121 N84-29840
PLESHA, M. E.
Numerical methods for jointed media and structures
05 p0691 N84-14538
PLESHAKOV, V. V.
Improvement of surface planing with diamond tool
17 p2641 N84-26897
PLISKE, R. M.
Problem analysis and definition in act generation
[AD-A137978] 13 p2022 N84-23111
PLITT, K. J.
A multiple shooting algorithm for direct solution of optimal control problems
[PREPRINT-589] 02 p0279 N84-11827
PLOHR, B.
The coupling of tracked and interior waves in a front tracking scheme
[AD-P002944] 14 p2197 N84-24184
PLOKHOVA, V. G.
G suit of bladderless type as a means of improving orthostatic stability after water immersion hypokinesia nd exposure to accelerations 07 p1045 N84-16775
PLOMP, P. W.
CAD/CAM: Influencing the skilled trades
[DE83-015188] 01 p0125 N84-10812
PLONUS, M. A.
The effect of turbulence on the atmospheric transmittance
[AD-A141133] 19 p3004 N84-29039
PLOSHAY, J. J.
The FGGE level 3-B daily global analyses, part 1
[PB83-221051] 01 p0109 N84-10709
FGGE level 3-B daily global analyses. Part 2: (Mar. 1979 - May 1979)
[PB84-100270] 08 p1193 N84-17780
FGGE level 3-B daily global analyses, part 3
[PB84-135854] 10 p1541 N84-20101
PLOTKIN, G. M.
Physiology 22 p3684 N84-33363
PLOTNIKOW, J.
Photochemical oxidation of hydrogen iodide by oxygen
[BLL-CE-TRANS-7989-(9022.09)]
19 p2987 N84-28925
Photochemical oxidation of hydrogen iodide by oxygen
[BLL-CE-TRANS-7988-(9022.09)]
19 p2987 N84-28926
PLUEDDEMAN, E. P.
Chemical bonding technology for terrestrial photovoltaic modules
[NASA-CR-173460] 12 p1842 N84-22008
PLUMER, J. R.
Roll-trusion (RT*) of composite structures
[AD-A140838] 17 p2618 N84-26757
PLUMMER, E. W.
Experimental studies of the geometric and electronic structure of chemisorption bonding
[PB83-243949] 02 p0192 N84-11248
The electronic structure of C(2x2)S/Fe(100): S 3p-level dispersions and linewidths. Revision
[AD-A138124] 12 p1797 N84-21725

Segregation of Si and Sn to the Fe(100) surface in the Fe-6.2% Si-0.03% Sn alloy
[AD-A136154] 12 p1798 N84-21726
Momentum dependent line shapes in photoemission
[AD-A137968] 12 p1913 N84-22461

PLUMMER, J. D.
Defects at electrode-oxide and electrode-silicon interfaces in VHSI device structures
[AD-A140814] 17 p2663 N84-26990

PLUMMER, O. R.
The database management system: A topic and a tool 12 p1891 N84-22316

PLUNKETT, D. J.
The vectorization of a ray tracing program for image generation 10 p1561 N84-20231

PLUNKETT, R.
Wave attenuation in damped periodic structures
[AD-A133736] 05 p0693 N84-14550
Wave attenuation in periodic structures
[AD-A138924] 13 p2001 N84-22984

PLUZHNIKOV, A. D.
Threshold signals for detector having stabilization of false alarm probability 22 p3567 N84-32590

PLYLER, R. L.
An investigation of resonant optoacoustic cells
[PB83-251637] 18 p2929 N84-28572

PLYUSNIN, V. U.
High-performance specialized processors for calculation of elementary and special functions 24 p3941 N84-34950

PLZAK, G. A.
Combined environment test of Sangamo Weston SABRE 12 airborne recorder
[AD-A131278] 02 p0223 N84-11463

PNUELI, A.
Verification of concurrent programs: A temporal proof system
[AD-A131501] 01 p0123 N84-10801
Verification of concurrent programs: A temporal proof system 08 p1209 N84-17884

POA, D. S.
Diffusion mass transfer of KOH through Ni/Zn battery membrane separators
[DE83-014551] 03 p0367 N84-12367

POBORIL, F.
Chromium-magnesium stainless steels, resistant to stress corrosion cracking in magnesium and calcium chloride solutions
[BLL-RISLEY-TRANS-4571-(9091.9)] 22 p3550 N84-32477

POCALYKO, P. N.
Defense industry attitudes about AF interface standards report of an electronics industries association survey
[AD-P003570] 21 p3337 N84-31175

POCHA, M. D.
Gate array layout using CADDS 2
[DE83-014840] 01 p0075 N84-10491

POCHIN, S.
Administrative obstacles to robotization recalled 23 p3728 N84-33626

POCHKAYEV, I.
Spacecraft simulators 09 p1264 N84-18252

POCHTAREV, V. I.
New book discusses normal geomagnetic field 18 p2859 N84-28156

POCHUYEV, S. I.
Efficiency comparison of quasi-optimum direction finding algorithms used for point sources of signals 17 p2633 N84-26844

POCOCK, W.
Cable fire studies using the Ohio State University release rate apparatus 11 p1726 N84-21261

PODAIRE, A.
Remote sensing for agriculture and land use 08 p1177 N84-17666

PODGORSKI, J.
General condition of the limiting state for isotropic materials
[ISSN-0208-5658] 23 p3712 N84-33530

PODHORSKY, D.
Radar meteorology for flight assistance formation of data bank for use of radar and satellite data 18 p2887 N84-28322
Dynamics of radar cloud characteristics 18 p2887 N84-28325

PODOSINNIKOVA, L. S.
Allomonades: New group of vibrionaceae family microorganisms 17 p2742 N84-27410

PODWYSOCKI, M. H.
Evaluation of radiometric and geometric characteristics of LANDSAT-D imaging system
[E84-10050] 04 p0553 N84-13643
Application of Heat Capacity Mapping Mission data to regional geologic analysis for mineral and energy resource evaluation
[E84-10078] 07 p1021 N84-16625
Analysis of LANDSAT-4 TM data for lithologic and image mapping purpose 20 p3209 N84-30390

POE, C. C., JR.
Tensile strength of composite sheets with unidirectional stringers and crack-like damage 20 p3146 N84-29974

POE, J. K.
Measuring the temperature coefficients of the elastic constants of indium phosphide
[AD-A138454] 12 p1915 N84-22474

POENARU, V.
Annals of the Fourier Institute, volume 34, no. 1
[ISSN-0373-0956] 22 p3633 N84-33025
Annals of the Fourier Institute, volume 34, no. 2
[ISSN-0373-0956] 22 p3635 N84-33038

POENITZ, W. P.
Neutron total cross section measurements in the energy region from 47 keV to 20 MeV
[DE84-001400] 04 p0801 N84-13970

POEPPEL, R. B.
Application of NDE methods to green ceramics: Initial results
[DE84-006411] 14 p2130 N84-23769
Application of NDE methods to green ceramics: Initial results
[DE84-010571] 18 p2819 N84-27898

POESCHEL, E.
A contribution to the manufacture and characteristics of steel-wire-reinforced aluminum
[NASA-TM-76977] 07 p0974 N84-16310

POESCHEL, R. L.
Development of advanced inert-gas ion thrusters
[NASA-CR-168206] 01 p0029 N84-10180

POETZSCH, W.
A microwave time transmission system
[ESA-TT-782] 16 p2482 N84-25916

POGASH, R. M.
Effects of load, cognitive complexity and type A on satisfaction
[AD-A134415] 08 p1203 N84-17846
Effects of stressors on task performance and satisfaction
[AD-A139039] 14 p2187 N84-24101
A player's manual for a complex disaster decision simulation
[AD-A140776] 17 p2747 N84-27438

POGGIO, T.
Scaling theorems for zero-crossings
[AD-A131599] 02 p0281 N84-11839
Symmetric set theory, a general theory of isomorphism, abstraction, and representation
[AD-A133630] 05 p0741 N84-14868
Fingerprint theorems for zero-crossings
[AD-A139181] 14 p2212 N84-24280

POGORELSKIY, Y. V.
New phase transition in Si and GaAs exposed to picosecond laser pulses 20 p3286 N84-30866

POGUDIN, P.
Use of economic mechanisms in managing scientific and technical progress 13 p2064 N84-23389

POHL, H. C.
Nitriding with a pulsed glow discharge
[BLL-OA-TRANS-3168-(6169.3)] 08 p1128 N84-17335

POHL, M.
Electron microscopy for damage analysis 14 p2125 N84-23738
Thermally induced fractures 14 p2126 N84-23743
Wear damage to materials 14 p2126 N84-23747

POHLIG, S. C.
Sampling mismatch and timing jitter in pulse-Doppler radar
[AD-A134683] 08 p1144 N84-17447

POHN, H. H.
Application of Heat Capacity Mapping Mission data to regional geologic analysis for mineral and energy resource evaluation
[E84-10078] 07 p1021 N84-16625

POINSARD, P.
A middle latitude ionospheric model
[CRPE-NT-114] 13 p2012 N84-23049

POIRIER, D. R.
Analysis and calculation of macrosegregation in a casting ingot, exhibits C and E
[NASA-CR-171030] 14 p2127 N84-23752

POIRIER, N. C.
Signal encoding and telemetry systems for space vehicles
[AD-A134445] 07 p0963 N84-16244
Remote data acquisition system
[AD-A143347] 22 p3541 N84-32419

POISSON-QUINTON, P.
Ground/flight test techniques and correlation 14 p2096 N84-23574

POKASOV, V. V.
Intensity fluctuations during specular reflection of light beams in turbulent atmosphere 18 p2823 N84-27922

POKEMPNER, M.
Global maps of foF2 derived from observations and theoretical values
[PB84-163906] 15 p2369 N84-25215

POKHMURSKIY, V. I.
Modern methods of studying initial stage of fatigue fracture in metals 24 p3871 N84-34531

POKORNY, Z.
Computer programs for processing of spectra 15 p2423 N84-25556

POKROVSKAYA, L. A.
Relationship between cardiovascular system response and adrenocortical glucocorticoid function on exposure to diffuse, low-intensity helium-neon laser emission 17 p2741 N84-27405

POKROVSKIY, A.
Materials study experiments with Elektrotopograf on Salyut-7 12 p1774 N84-21568
Flight director Ryumin on achievements of Soyuz T-9 flight 12 p1774 N84-21574
First imagery from Venera-15, -16 shown 12 p1775 N84-21581
Comments on goals of 'Soyuz T-10' flight 19 p2970 N84-28825
Comet studies, medical research on 'Salyut-7' 19 p2971 N84-28832
Processing of 'Venera-15, -16' radar mapping imagery 19 p2974 N84-28856

POLAK, E.
An integrated, optimization-based approach to the design and control of large space structures
[AD-A141856] 19 p2982 N84-28896

POLAND, A.
Performance testing of the high altitude observatory PDS microdensitometer 18 p2839 N84-28022

POLAND, R. E.
Stress biochemistry: Non-invasive measurement techniques in military subjects
[AD-A141598] 19 p3065 N84-29447

POLANSKY, G. F.
Finite-element analysis of incompressible laminar and turbulent flow with heat transfer
[DE84-000042] 04 p0536 N84-13523
A finite element analysis of incompressible laminar and turbulent flow with heat transfer past irregular surfaces 05 p0682 N84-14485
Finite element analysis of incompressible turbulent backstep flow with heat transfer
[DE84-003101] 07 p1003 N84-16502

POLCAROVA, M.
Noncubic magnetic anisotropy in YSmLuCaFeGe garnet films 20 p3287 N84-30869

POLESHAYEV, V. I.
Hydromechanics and heat and mass exchange in weightlessness (Russian book): Table of contents
[NASA-TM-77533] 10 p1490 N84-19743

POLEY, W. A.
A comparison of the domestic satellite communications forecast to the year 2000
[NASA-TM-83516] 01 p0062 N84-10405

POLGER, P. D.
National Weather Service public forecast verification summary, April 1978 to March 1982
[PB83-232173] 01 p0110 N84-10716

POLHAMUS, E. C.
A review of some Reynolds number effects related to bodies at high angles of attack
[NASA-CR-3809] 21 p3325 N84-31097

POLIAKOFF, E. D.
Photoelectron studies of resonant multiphoton ionization of CO via the A-1 Pi state
[DE83-008535] 06 p0916 N84-15956

POLIAN, A.
Elastic moduli of H2O: Liquid, ice 6 and ice 7
[DE83-017960] 05 p0652 N84-14284

POLISHCHUK, I. M.
Synthesis of antennas with weak superdirectivity 22 p3565 N84-32581

POLISHOOK, J.
Microbial evaluation of some adhesive formulations and adhesive bases
[AD-A141659] 19 p2999 N84-29005

POLITIS, D. T.
Study on extremizing adaptive systems and applications to synthetic aperture radars
[AD-A133945] 05 p0667 N84-14385
SAR calibration: A technology review 07 p0988 N84-16399
Study on extremizing adaptive systems and applications to synthetic aperture radars
[AD-A137725] 11 p1643 N84-20744

POLITO, J.
A computer simulation to predict target identification latencies
[AD-P003272] 18 p2907 N84-28437
POLITZER, P. A.
Passive and active circuits for vertical plasma stabilization
[DE84-008857] 18 p2933 N84-28599
POLIVANOV, Y. N.
Waveguide CO2 laser with 7.5 W power rating
21 p3487 N84-32098
POLIYEVSKIY, G. A.
Simulator-probe for diagnostic testing of short-wave radio channels 22 p3567 N84-32595
POLL, D. I. A.
On the generation and subsequent development of spiral vortex flow over a swept-back wing
03 p0322 N84-12105
On the stability of an infinite swept attachment line boundary layer
[NASA-CR-172300] 10 p1420 N84-19285
Transition description and prediction in three-dimensional flows 23 p3748 N84-33761
POLLACK, J. B.
Origin and evolution of the Saturn system
[NASA-TM-85847] 04 p0621 N84-14096
Abrasion by aeolian particles: Earth and Mars
[NASA-CR-3788] 11 p1628 N84-20654
Origin and evolution of the Saturn system
13 p2073 N84-23433
Long range transport of fine grained sediments on Mars: Atmospheric dust loading, as inferred from Viking Lander imaging data 13 p2082 N84-23488
POLLACK, J. G.
An age comparison of the vestibulo-ocular counterroll reflex
[AD-A132064] 03 p0415 N84-12716
POLLAK, E. C.
Catalog of selected heavy duty transport energy management models
[NASA-CR-16829[illegible]] 05 p0761 N84-14991
POLLAK, M.
Average run lengths of an optimal method of detecting a change in distribution
[AD-A136385] 09 p1381 N84-19019
POLLARA, F.
Effects of NRZ-M modulation on convolutional codes performance 16 p2479 N84-25894
POLLARD, D. W.
Cabin safety subject index
[AD-A140409] 16 p2445 N84-25683
POLLARD, M.
Development of a continuous monitor for detection of toxic organic compounds
[PB83-234922] 03 p0378 N84-12461
POLLARD, R. E.
System for maintaining the alignment of mandrels in filament winding operations
[DE84-014660] 23 p3727 N84-33617
POLLARD, R. T.
Long SeaSoar CTD sections in the northeast Atlantic Ocean collected during RRS Discovery Cruise 116
[IOS-148] 02 p0258 N84-11692
POLLOCK, N.
The effect of discrete spanwise regions of bleed on pseudo-two-dimensional base flow at transonic speeds
[ARL-AERO-NOTE-418] 07 p0945 N84-16132
Some aspects of the compatibility between strain gauge readout equipment and multi-component wind tunnel balances
[ARL-AERO-NOTE-417] 09 p1317 N84-18606
Some factors affecting the selection of the type of new transonic tunnel to best meet Australian needs
[AD-A142957] 21 p3345 N84-31222
POLLOCK, T. C.
Space Shuttle ice suppression system validation, volume 1
[NASA-CR-171740] 08 p1114 N84-17244
Space Shuttle ice suppression system validation, volume 2
[NASA-CR-171741] 08 p1114 N84-17245
Space Shuttle ice suppression system validation, volume 3
[NASA-CR-171742] 08 p1114 N84-17246
POLO, J. F.
Pressure filtration of ceramic pastes. 4: Treatment of experimental data
[NASA-TM-77454] 19 p2997 N84-28992
POLONSKIY, V. V.
Anthropometric indicators of submariners
11 p1694 N84-21049
POLOSIN, L. L.
Requirements to be met by parameters of high-definition television systems for cinematography
17 p2633 N84-26841
POLSON, P.
USAFSAM (USAF School of Aerospace Medicine) review and analysis of radiofrequency radiation bioeffects literature
[AD-A140023] 15 p2379 N84-25280
USAFSAM (USAF School of Aerospace Medicine) review and analysis of radiofrequency radiation bioeffects literature
[AD-A142961] 21 p3453 N84-31912
POLTAVSKIY, A. F.
Dependence of blood coagulating and fibrinolytic systems on functional state of lysosomal system of neutrophil leukocytes during exposure of the body to low barometric pressure 20 p3255 N84-30661
POLUKHIN, V. P.
Theoretical and experimental determination of stress-strain of high-pressure equipment
[BLL-M-35287-(5828.4)] 06 p0856 N84-15574
Numerical investigation of stress-strain state of composite working tool assembled with negative allowance
[BLL-M-35379] 09 p1328 N84-18672
POLUNIN, V.
Science and technology programs discussed
01 p0158 N84-11045
POLVANI, R.
Engineering and design properties of thallium-doped sodium iodide and selected properties of sodium-doped cesium iodide
[NASA-RP-1131] 23 p3726 N84-33613
POLYAKHOVA, Y. N.
Quasicircular equatorial orbits of artificial earth satellites with allowance for light pressure
19 p2974 N84-28851
POLYAKOV, S. A.
Estimation of wear rate during selective mass transfer
17 p2642 N84-26903
POLYAKOV, V. N.
Corrosion protective properties of coatings obtained by hydraulic pulse compacting of aluminum powder
24 p3875 N84-34553
POLYANSKIY, V. M.
Significance of the environment in corrosion cracking of Al-Mg and Al-Li-Mg system alloys
24 p3871 N84-34534
POLYCHRONAKOS, V. A.
Operation of the Brookhaven MPS Facility
[DE83-015383] 03 p0441 N84-12896
POLYDOROS, A.
Engineering evaluations and studies. Volume 1: Exhibit A
[NASA-CR-171724] 06 p0794 N84-15174
Engineering evaluations and studies. Volume 2: Exhibit B, part 1
[NASA-CR-171725] 06 p0794 N84-15175
Engineering evaluations and studies. Volume 2: Exhibit B, part 2
[NASA-CR-171726] 06 p0794 N84-15176
Engineering evaluations and studies. Volume 3: Exhibit C
[NASA-CR-171727] 06 p0794 N84-15177
POLYZOU, W. N.
Configuration space Faddeev calculations
[DE84-006492] 11 p1730 N84-21289
POLZELLA, D. J.
Aircrew training devices: Utility and utilization of advanced instructional features. Phase I: Tactical Air Command
[AD-A135052] 08 p1106 N84-17190
POMATHIOD, L.
The experiment Phenomena Induced by Charged Particle Beams (PICPAB) on board Spacelab 1
05 p0641 N84-14220
POMERANCE, C.
Analysis and comparison of some integer factoring algorithms 08 p1224 N84-17995
POMMERENKE, C.
On Fuchsian groups of accessible type
04 p0576 N84-13795
POMPHREY, N.
Scattering of waves by irregularities in periodic discrete lattic spaces. Part 2: Calculations
[AD-A130665] 01 p0140 N84-10917
POMPLUM, A. R.
Sonic levitation apparatus
[NASA-CASE-MFS-25828-1] 18 p2928 N84-28568
POMRANING, G. C.
Fusion reactors: Physics and technology
[DE83-017148] 08 p1232 N84-18055
PONATH, H. E.
Stationary and non-stationary nonlinear optical spectroscopy on surface polaritons
[NASA-TM-77388] 10 p1578 N84-20340
PONCHAK, G. E.
Monolithic microwave integrated circuits: Interconnections and packaging considerations
[NASA-TM-83774] 21 p3382 N84-31461
POND, C. R.
Laser ballistic sensor development
[AD-A140427] 17 p2671 N84-27026
POND, J. E.
MINIVER upgrade for the AVID system. Volume 3: EXITS user's and input guide
[NASA-CR-172214] 02 p0271 N84-11773
PONG, N. G. S.
A CCD photometric camera for satellite observation
[AD-A137214] 11 p1660 N84-20833
PONGRATZ, M. B.
Creating unstable velocity-space distributions with barium injections
[DE83-012783] 02 p0250 N84-11635
Project Waterhole III 05 p0640 N84-14210
Creating unstable velocity-space distributions with barium injections 05 p0640 N84-14214
Evolution of structure in the PLACES barium clouds
[DE84-010996] 20 p3242 N84-30583
PONGRATZ, S.
Fabrication of structures on semiconductors by X-rays: Comparison and optimization of mask technologies
[BMFT-FB-T-83-071] 02 p0300 N84-11968
PONIKVAR, D. R.
Quantum optics and photonics
22 p3682 N84-33344
PONOMARENKO, A. G.
Energy characteristics of plasma generated in air near target by radiation from CO2 laser
21 p3488 N84-32103
PONOMAREV, D. N.
Astronomical observatories
[NASA-TM-77295] 07 p1089 N84-17082
PONOMAREV, Y. N.
Resonance absorption of narrow-band laser radiation by atmospheric gases 20 p3225 N84-30493
Relation between pressure pulse generated in optoacoustic receiver and intensity of stimulating laser pulse 21 p3478 N84-32047
PONOMAREVA, S. B.
Relation between pressure pulse generated in optoacoustic receiver and intensity of stimulating laser pulse 21 p3478 N84-32047
PONS, B. S.
Electrochemically Modulated Infrared Spectroscopy (EMIRS). Experimental details
[AD-A137040] 10 p1455 N84-19503
PONS, G.
Cracking threshold on steel used in aeronautical construction: Influence of the environment
[SNIAS-832-551-101] 16 p2465 N84-25797
PONS, S.
Electrochemistry of anilines. 2: Oxidation to dications, electrochemical and UV/VIS spectroelectrochemical investigation
[AD-A136949] 10 p1454 N84-19498
Voltammetric studies of Zomepirac sodium and its determination in tablets by differential-pulse polarography
[AD-A136982] 10 p1455 N84-19499
Simulation of edge effects in electroanalytical experiments by orthogonal collocation. Part 4: Application to voltammetric experiments
[AD-A136988] 10 p1455 N84-19500
Polymerization of 3-methyl-2,5-Dibromothiophene utilizing n-butyl lithium and Copper(II) chloride
[AD-A136955] 10 p1468 N84-19585
Anodic oxidation of furans in aprotic solvents
[AD-A137081] 10 p1468 N84-19587
Spectroscopic determination of the ac voltammetric response
[AD-A137321] 18 p2833 N84-27983
PONSAR, M.
Protection equipment against high velocity ejections
[STPA/CIN-6] 18 p2790 N84-27705
PONTE, N. S.
A proposed RF-technology R/D plan for the United States
[DE84-000643] 04 p0522 N84-13434
PONTIER, P.
Study of numerical control systems for machines. Integration in flexible workshops and units
[CETIM-1.3T.042] 21 p3470 N84-31991
PONZI, U.
Study on synthesis and characterization of large space systems, phase 2. Part 2: Proposals for additions, modifications and new analytical methods, volume 1
[ESA-CR(P)-1779-VOL-3] 12 p1780 N84-21611
Simplified models and computational schemes of the aerodynamic load 12 p1780 N84-21614

Study on synthesis and characterization of large space systems, phase 2. Part 2: Proposals for additions, modifications and new analytical methods, volume 2
[ESA-CR(P)-1779-VOL-4] 12 p1780 N84-21616
Study on synthesis and characterization of large space systems, phase 2. Part 3: Experimental design verification techniques
[ESA-CR(P)-1779-VOL-5] 12 p1781 N84-21620
Assessment of the existing ground test technology and confronting with the Large Space Structures (LSS) requirements. Experimental techniques in structural analysis 12 p1781 N84-21621
Assessment of the existing ground test technology and confronting with the Large Space Structures (LSS) requirements. Thermal test techniques 12 p1781 N84-21622
Proposals for additions, modifications, and new experimental methods. Part 1: Ground tests. Part 2: Flight tests 12 p1781 N84-21623
Study on synthesis and characterization of large space systems, phase 2. Part 1: Assessment of design verification analytical methods. Volume 1: Mechanical design
[ESA-CR(P)-1779-VOL-1] 12 p1782 N84-21624
Study on synthesis and characterization of large space systems, phase 2. Part 1: Assessment of design verification analytical methods. Volume 2: Thermal design
[ESA-CR(P)-1779-VOL-2] 12 p1782 N84-21625

POOCK, G. K.
Effects of emotional and perceptual-motor stress on a voice recognition system's accuracy: An applied investigation
[AD-A142554] 20 p3175 N84-30160

POOL, D. A.
Automated en route air traffic control algorithmic specifications. Volume 1: Trajectory estimation
[AD-A137088] 10 p1426 N84-19328

POOL, K. H.
Compendium of selected methods for sampling and analysis at geothermal facilities
[PB84-199925] 22 p3565 N84-32579

POOLE, B. R.
Interaction of electromagnetic fields with plasma
[AD-A135173] 08 p1232 N84-18054
An investigation of RF currents in a magnetized plasma using a slow wave structure
[AD-A135880] 09 p1385 N84-19047

POOLE, C. D.
Nonlinearities at the bandgap in InAs 14 p2233 N84-24395

POOLE, J. W.
An experimental investigation into the forebody and engine inlet airflow characteristics of a photographic reconnaissance window pallet on the RF/A-18 aircraft
[AD-A132271] 04 p0481 N84-13167

POOLE, M. A.
Jam-resistant speech encoding
[AD-A134707] 08 p1145 N84-17448

POOLE, R. L.
Compatibility and accelerated aging study for Li(Si)/FeS/sub 2 thermally activated batteries
[DE84-006099] 12 p1813 N84-21818

POOLE, S. L.
T-phase recording by OBS near the conjugation of the Kuril and Japan trenches 19 p3060 N84-29418

POON, C. W.
Lightning mapper sensor design study
[NASA-CR-170909] 04 p0566 N84-13732

POOR, H. V.
Research activities that occurred in the Coordinated Science Laboratory for July 1, 1982 through Jun 30, 1983
[AD-A132132] 04 p0623 N84-14108
Signal detection in multiple-access channels
[AD-A143796] 23 p3731 N84-33648

POOR, S.
Magnetic switching
[DE83-012952] 03 p0433 N84-12841

POORMAN, R.
Space Processing Applications Rocket (SPAR) project, SPAR 9
[NASA-TM-82549] 08 p1113 N84-17239

POORMAN, R. M.
Space Processing Applications Rocket (SPAR) project SPAR 7
[NASA-TM-82535] 01 p0018 N84-10112

POPE, B.
Review of properties of various types of calorimeters: High luminosity and high energy 06 p0911 N84-15917

POPE, L. D.
Propeller aircraft interior noise model
[NASA-CR-3813] 19 p3099 N84-29687

POPE, L. E.
Effect of environment and materials properties on the friction and wear behavior of precious metal electrical contact alloy couples
[DE83-010403] 02 p0215 N84-11409
Microstructures of stainless steels exhibiting reduced friction and wear after implantation with Ti and C
[DE84-002252] 07 p0975 N84-16318
Friction and wear reduction of 440C stainless steel by ion implantation
[DE84-003255] 08 p1133 N84-17371

POPE, R. L.
Further analysis of yawsonde data from some liquid payload projectiles
[AD-A137256] 11 p1653 N84-20791

POPE, S. B.
Monte Carlo calculations of two-dimensional combustor flows
[AD-A139569] 14 p2123 N84-23724

POPEK, G. J.
Secure reliable processing systems
[AD-A140150] 16 p2542 N84-26316

POPEL, O. S.
Economics of installation of solar heating plants 17 p2641 N84-26896

POPEL, S. I.
Obtaining metallic powders by ultrasonic atomization of melts 12 p1785 N84-21643
Features of behaviour of gas bubbles in molten oxide films during enamelling
[BLL-M-35672-(5828.4)] 22 p3553 N84-32496

POPELAS, J. M.
A case grammar approach to error correction in computer programs 05 p0721 N84-14725

POPELLA, A.
Simulation of Shuttle Imaging Radar (SIR)-B imagery over Freiburg test site 23 p3779 N84-33958

POPESCU, A.
Experimental assessment of semiconductor lasers for optical data links in space 24 p3905 N84-34729

POPKEN, L.
POPSAT: A candidate satellite system for solid Earth applications and sciences. Preliminary feasibility study. Volume 1: Summary
[ESA-CR(P)-1882-VOL-1] 17 p2614 N84-26735
POPSAT: A candidate satellite system for solid Earth applications and sciences. Preliminary feasibility study. Volume 2: Development program
[ESA-CR(P)-1882-VOL-2] 17 p2614 N84-26736

POPKOV, N. G.
Plasma beam instability of bounded electron beam in weak magnetic field 21 p3488 N84-32105

POPKOV, O. V.
Discharging a superconducting store into an inverting converter
[AD-A135577] 09 p1341 N84-18761

POPLE, H. E., JR.
SPIRIT: An evolutionally designed intelligent tutoring system
[AD-A144638] 24 p3949 N84-35003

POPOFF, T.
Computer-aided mapping in the USA: Experiences from a study tour in November 1983
[FOA-C-20533-D8] 19 p3042 N84-29304

POPOV, A. I.
Coupling of current and frequency-modulated noise in Gunn oscillators 17 p2636 N84-26865

POPOV, A. N.
Optimal electric drive control to suppress jerking
[BLL-M-35391-(5828.4)] 08 p1165 N84-17589
Influence of transient regimes of the motor on elastic mechanical vibrations in an electric drive
[BLL-M-35438-(5828.4)] 12 p1825 N84-21896

POPOV, E. P.
Seismic behavior of active beam links in eccentrically braced frames
[PB84-119676] 09 p1297 N84-18480
Design considerations for shear links in eccentrically braced frames
[PB84-192186] 20 p3171 N84-30136
Effects of bond deterioration on hysteretic behavior of reinforced concrete joints
[PB84-192020] 20 p3203 N84-30343
Local bond stress-slip relationships of deformed bars under generalized excitations: Experimental results and analytical model
[PB84-192848] 20 p3204 N84-30355

POPOV, G.
Scientist discusses problems in introducing new technology 01 p0055 N84-10357

POPOV, G. M.
Stabilization of thickness of zinc coating by adaptive system of control
[BLL-M-35367-(5828.4)] 09 p1281 N84-18364

POPOV, G. S.
Organizing work with information flows in system for automated processing of data from remote sensing of the Earth for use in agriculture 19 p2977 N84-28873

POPOV, I. G.
Aircraft crew diet in emergency situations 02 p0259 N84-11696
Metabolism and nutritional status in emergency situations without food supply or on a low-calorie diet 07 p1046 N84-16781
Blood plasma amino acid levels in cosmonauts before and after 175-day mission aboard Salyut-6 15 p2375 N84-25250
Blood plasma free amino acids under hypokinetic conditions 20 p3253 N84-30648

POPOV, M. M.
Method for summing Gaussian beams in isotropic elasticity theory 18 p2862 N84-28171

POPOV, P. A.
Method of analysis of combination oscillations of arbitrary nonlinear system for spectrum conversion 17 p2634 N84-26849

POPOV, S. N.
Synthesis of frequency spectra based on use of multilevel pulse sequences 17 p2634 N84-26848

POPOV, S. P.
Hypersonic flow around flat body in case of intense radiative heat exchange 13 p1972 N84-22795

POPOV, S. Y.
Correlation between individual alpha-rhythm parameters and operator's performance while subjected to maximum information input 21 p3453 N84-31909
Link between blood catecholamine levels and individual features in dynamics of operator error 21 p3456 N84-31929

POPOV, V. I.
Analysis of some aspects of mechanism of action of helium-neon laser 21 p3455 N84-31922

POPOV, V. V.
Plant waste processing on a solid substrate for a biological life-support system for man 07 p1046 N84-16786
Focusers of obliquely incident laser radiation 21 p3487 N84-32099

POPOV, Y. V.
Phase light range finder 21 p3380 N84-31447

POPOVA, E. V.
Theoretical and experimental determination of stress-strain of high-pressure equipment
[BLL-M-35287-(5828.4)] 06 p0856 N84-15574
Numerical investigation of stress-strain state of composite working tool assembled with negative allowance
[BLL-M-35379] 09 p1328 N84-18672

POPOVA, I. I.
Electrosleep in prophylaxis of psychoneural stress and recovery of mental performance in operators 18 p2895 N84-28367

POPOVA, Y. A.
Effect of multifold trapping of carriers on transient photocurrent in amorphous semiconductors 17 p2635 N84-26860

POPOVIC, V. P.
Operational evaluation of a new 435-mHz radiation facility
[AD-A138474] 12 p1773 N84-21564

POPPE, M. C., JR.
A survey of state-of-the-art LORAN-C receivers
[AD-A144199] 24 p3853 N84-34434

POPPENDIEK, H. F.
Thermal property measurement techniques and some results for CdTe
[AD-A131455] 02 p0299 N84-11959
Thermal property measurement techniques and some results for CdTe
[AD-A133899] 05 p0753 N84-14936
Thermal property measurement techniques and some results for CdTe and (Hg,Cd)Te alloys
[AD-A139375] 14 p2242 N84-24462

POPPLEWELL, N.
Static and dynamic behavior of mechanical components associated with electrical transmission lines 10 p1505 N84-19844
Experimental investigation of controlling vibrations using multi-unit impact dampers 10 p1514 N84-19909
An experimental hybrid model for a bilinear hysteretic system 10 p1514 N84-19910

PORANSKI, C. F., JR.
High performance composites and adhesives for V/STOL aircraft
[AD-A139168] 14 p2119 N84-23702

PORAT, R.
Thermal properties of coating materials and their effect on the efficiency of coated cutting tools 09 p1292 N84-18440

PORCAR, J. B.
File migration in distributed computer systems
04 p0584 N84-13860
PORCELLA, R. L.
Strong motion program report
[USGS-CIRC-914] 14 p2175 N84-24028
PORCO, C. C.
Voyager observations of Saturn's rings. 1: The eccentric rings at 1.29, 1.45, 1.95 and 227 Rs
06 p0937 N84-16087
PORITSKIY, V. Y.
Welding with alloying and ultrasonic treatment with an ion beam 12 p1786 N84-21652
PORKOLAB, M.
Particle confinement during lower-hybrid current drive in the Versator 2 Tokamak
[DE84-008941] 19 p3106 N84-29737
Lower hybrid experiments at the 1 MW level on Alcator C: Heating and current drive
[DE84-010586] 20 p3304 N84-30981
Realistic modelling of lower hybrid current drive with multiple codes
[DE84-010576] 20 p3304 N84-30982
Plasma dynamics 22 p3683 N84-33354
POROWSKI, J. S.
Development of a simplified procedure for rocket engine thrust chamber life prediction with creep
[NASA-CR-168261] 10 p1450 N84-19472
PORPOTAGE, J. L.
Small wind systems field evaluation. Volume 3: Utility issues
[DE84-006919] 15 p2365 N84-25190
PORRO, F.
Advanced ND techniques for composite primary structures 01 p0034 N84-10216
PORSCHE, G.
Long term in-service evaluation of CFRP components (spoilers) on Airbus A300, phase 1
[BMFT-FB-W-83-028] 10 p1429 N84-19344
PORSCHING, T.
Computational fluid dynamics at the ICMA (Institute of Computational Mathematics and Applications)
[AD-A143510] 22 p3594 N84-32759
PORTANOVA, G.
A new silicon-on-sapphire MIL-STD-1750A microprocessor
[AD-P003551] 21 p3334 N84-31155
PORTAT, M.
Characterization of pressure transducers for future cryogenic wind tunnels 16 p2476 N84-25873
PORTEIRO, J. L. F.
Space Shuttle ice suppression system validation, volume 1
[NASA-CR-171740] 08 p1114 N84-17244
Space Shuttle ice suppression system validation, volume 2
[NASA-CR-171741] 08 p1114 N84-17245
Space Shuttle ice suppression system validation, volume 3
[NASA-CR-171742] 08 p1114 N84-17246
PORTER, D. L.
Strategic computing and survivability research
[AD-A141717] 19 p3081 N84-29548
PORTER, F.
NASA/MSFC FY-84 Atmospheric Processes Research Review
[NASA-CP-2329] 24 p3923 N84-34829
PORTER, J.
Cryogenic system for a superconducting spectrometer
[DE83-012995] 02 p0299 N84-11961
Control and operation cost optimization of the HISS cryogenic system
[DE83-017741] 04 p0515 N84-13384
PORTER, J. E.
Thermolysis of 4-methyl-4-phenyl malonyl peroxide: A new oxygen dependent chemiluminescent reaction
[AD-A131863] 03 p0349 N84-12268
Water resources data for Arkansas, water year 1982
[PB84-181296] 20 p3229 N84-30522
PORTER, R.
The Sacramento Peak fast microphotometer
18 p2841 N84-28040
PORTER, R. S.
Uniaxial draw of poly(ethylene oxide) by solid state extrusion
[AD-A141923] 20 p3161 N84-30074
Crystalline-state extrusion of low density polyethylenes
[AD-A142017] 20 p3161 N84-30075
PORTHOUSE, D. T. C.
Numerical simulation of stalling flows by an integral equation method 07 p0956 N84-16199
PORTIER, J. J.
The accuracy of the finite difference computations of recirculating free convective flows
06 p0839 N84-15471
PORTNOV, V. G.
Investigation of the characteristics of a ventilated transparent shield
[BLL-M-35562-(5828.4)] 17 p2665 N84-26996
PORTNOY, W. M.
Reverse bias second breakdown in power switching transistors
[AD-A130145] 02 p0213 N84-11391
Workshop on Solid State Switches for Pulsed Power
[AD-A132687] 05 p0754 N84-14945
Deep traps in AlGaAs layers at AlGaAs-GaAs interfaces
[DE84-005234] 11 p1745 N84-21387
PORTNYAGIN, Y. I.
Quasi-two-day variation of lower thermosphere wind velocities 20 p3224 N84-30488
PORUBCANSKY, C. A.
Proceedings papers of the 2nd AFSC (Air Force Systems Command) Avionics Standardization Conference, volume 1
[AD-A142776] 21 p3329 N84-31121
Proceedings papers of the 2nd AFSC (Air Force Systems Command) Avionics Standardization Conference, volume 2
[AD-A142777] 21 p3335 N84-31165
Proceedings of the 2nd AFSC (Air Force Systems Command) Avionics Standardization Conference. Volume 3: Embedded computer resources governing documents
[AD-A142778] 21 p3342 N84-31201
Proceedings of the 2nd AFSC (Air Force Systems Command) Avionics Standardization Conference. Volume 4: Tutorial: MIL-STD-1553 multiplex data bus
[AD-A142779] 21 p3342 N84-31202
Proceedings of the 2nd AFSC (Air Force Systems Command) Avionics Standardization Conference. Volume 5: Tutorial: MIL-STD-1589 JOVIAL (J-73) high order language
[AD-A142780] 21 p3342 N84-31203
Proceedings of the 2nd AFSC (Air Force Systems Command) Avionics Standardization Conference. Volume 6: Tutorial: MIL-STD-1679 weapon system software development
[AD-A142781] 21 p3342 N84-31204
Proceedings of the 2nd AFSC (Air Force Systems Command) Avionics Standardization Conference. Volume 7: Tutorial: MIL-STD-1750, 16 bit instruction set architecture
[AD-A142782] 21 p3342 N84-31205
Proceedings of the 2nd AFSC (Air Force Systems Command) Avionics Standardization Conference. Volume 8: Tutorial: MIL-STD-1815 Ada high order language
[AD-A142783] 21 p3342 N84-31206
Proceedings of the 2nd AFSC (Air Force Systems Command) Avionics Standardization Conference. Volume 9: Tutorial: Navy case study implementation of military standards
[AD-A142784] 21 p3342 N84-31207
POSCOLIERI, M.
An interactive procedure for the analysis of linear elements detected in LANDSAT pictures: An application to northern Mozambique 23 p3770 N84-33900
POSHEKHONOV, P. V.
The effect of pulse current on the electrical strength of high-voltage modulator tubes
[AD-A136489] 09 p1307 N84-18544
POSNER, E. C.
The Telecommunications and Data Acquisition Report
[NASA-CR-174610] 04 p0518 N84-13401
The Telecommunications and Data Acquisition Report
[NASA-CR-173263] 10 p1473 N84-19621
Optimum cyclic redundancy codes for noisier channels
10 p1475 N84-19638
The telecommunications and data acquisition report
[NASA-CR-173565] 16 p2478 N84-25889
TDA assessment of recommendations for space data system standards 16 p2479 N84-25898
Minimum-distance problems in protocol design
16 p2480 N84-25903
The Telecommunications and Data Acquisition Report
[NASA-CR-173885] 22 p3572 N84-32622
GCF compatibility with packets and data compression
22 p3575 N84-32641
POSPELOV, L. A.
Use of fiber light guides for evaluation of precision characteristics of pulsed laser range finders
17 p2637 N84-26870
POSSA, G.
Introduction to acoustic emission
[NASA-TM-77088] 08 p1227 N84-18016
POSSIEL, N. C.
US EPA (Environmental Protection Agency) regional oxidant model, background and overview
[PB84-201680] 21 p3437 N84-31806
POST, D.
Free edge strain concentrations in real composite laminates: Experimental-theoretical correlation
[NASA-CR-173818] 19 p2986 N84-28919
POST, H. N.
A comparative evaluation of new low-cost array field designs for grid-connected photovoltaic systems
[DE84-010978] 21 p3435 N84-31797
POST, J. V.
Software quality measurement for distributed systems, volume 1
[AD-A137955] 11 p1707 N84-21128
Software quality measurement for distributed systems. Volume 2: Guidebook for software quality measurement
[AD-A137956] 11 p1707 N84-21129
Software quality measurement for distributed systems. Volume 3: Distributed computing systems. Impact on software quality
[AD-A137957] 11 p1708 N84-21130
Software interoperability and reusability, volume 1
[AD-A138477] 12 p1883 N84-22276
Software interoperability and reusability. Volume 2: Guidebook for software quality measurement
[AD-A138478] 12 p1884 N84-22277
POST, M. J.
BETA: A program for calculating and archiving backscattering profiles taken with the NOAA National Oceanic and Atmospheric Administration) coherent lidar system
[PB84-150168] 14 p2177 N84-24040
POST, R. E.
Method of making a light weight battery plaque
[NASA-CASE-LEW-13349-1] 13 p1960 N84-22734
POST, R. F.
Fokker-Planck equation in mirror research
[DE83-016568] 03 p0446 N84-12932
Physics issues in mirror and tandem mirror systems
[DE84-013837] 22 p3660 N84-33201
POST, W. M.
Computer implementation of a globally averaged model of the world carbon cycle
[DOE/NBB-0062] 23 p3793 N84-34055
POSTA, S. J.
Lewis Research Center spin rig and its use in vibration analysis of rotating systems
[NASA-TP-2304] 15 p2260 N84-24578
POSTANS, P. J.
The use of Jominy end quench to assess the hardenability of higher strength titanium alloys
[PNR-90169] 19 p2991 N84-28957
POSTAWKO, S. E.
Martian paleoclimate 13 p2072 N84-23427
POSTEL, J.
Name server design for distributed systems
[AD-A143634] 23 p3812 N84-34173
POSTL, W.
Techniques for integrated text and image processing and communication
[BMFT-FB-T-83-104] 02 p0302 N84-11985
POSTLETHWAITE, I.
Representations of uncertainty and robustness
[OUEL-1489/83] 12 p1892 N84-22322
Adequate/inadequate representations of uncertainty and their implications for robustness analysis
[OUEL-1498/83] 12 p1892 N84-22323
Representation of uncertainty and robustness tests for multivariable feedback systems
[OUEL-1517/84] 19 p3091 N84-29627
Extensions of the small-mu test for robust stability
[OUEL-1518/84] 19 p3091 N84-29628
An H sup inf minimax approach to the design of robust control systems
[OUEL-1520/84] 19 p3091 N84-29629
A robustness test for distributed feedback systems
[OUEL-1522/84] 19 p3091 N84-29630
POSTNIKOV, I. M.
Problems of technical electrodynamics (selected articles)
[AD-A140972] 18 p2833 N84-27985
POSTNIKOV, V. S.
Features of physiochemical reaction in aluminum-boron composite material 12 p1783 N84-21636
POSTOLNIK, Y. S.
Approximate solution of the problem of thermoelasticity of a sphere with variable properties
[BLL-M-35369-(5828.4F)] 04 p0547 N84-13606
Thermoelastic stresses in metal with temperature: Dependent properties in radiant heating
[BLL-M-35526-(5828.4)] 13 p1960 N84-22733
POSTUCHOW, J. R.
Technology needs of advanced Earth observation spacecraft
[NASA-CR-3698] 08 p1114 N84-17248
POSUDIN, Y. I.
Laser Doppler spectroscopy of biological objects
17 p2742 N84-27408

POSUKH, V. G.
Energy characteristics of plasma generated in air near target by radiation from CO2 laser
21 p3488 N84-32103
POTABENKO, V. M.
Device for graded exercising of rats in pressure chamber 02 p0262 N84-11719
POTAPENKOV, A. P.
Distribution of unit pressures in universal spindle joint
08 p1165 N84-17588
POTARD, C.
Filtration theory approach to immiscible alloys solidification 17 p2613 N84-26729
POTEKHINA, Y. A.
Supersonic nonsteady flow past flat and axisymmetric pointed bodies 21 p3485 N84-32088
POTEMKIN, V. V.
Noise of 1/f form in polycrystalline aluminum films
17 p2633 N84-26843
POTEMPA, K. W.
Flying training R&D (Research and Development) at the Air Force Human Resources Laboratory
[AD-A130250] 01 p0116 N84-10752
POTENZA, J.
New materials for organic photovoltaic cells
[DE83-016845] 03 p0404 N84-12645
POTERYAYEV, A. G.
Miniaturized pulsed CO2 laser with sealed electron source 13 p1969 N84-22782
POTH, H.
Research on shear stability of polymer-containing hydraulic oils
[REPT-11] 12 p1800 N84-21737
POTMESIL, M.
Generating three-dimensional surface models of solid objects from multiple projections
[AD-A132392] 04 p0580 N84-13824
POTTASCH, S. R.
The interstellar media in the Scorpius-Ophiuchus region 24 p3973 N84-35161
Interstellar and nebular absorption lines in planetary nebulae 24 p3973 N84-35162
Hot central stars in planetary nebulae
24 p3977 N84-35193
Mass loss from the central star of NCG 3242
24 p3977 N84-35194
POTTELETTE, R.
Results from wave injection experiments on the Porcupine rocket 05 p0635 N84-14175
Observation of waves induced by an artificial ion beam in the ionosphere 05 p0635 N84-14176
POTTER, D. M.
TRISTEN/FRAM IV arctic ambient noise measurements
[AD-A140656] 17 p2763 N84-27549
POTTER, E. H., III
Self-monitoring. Cognitive processes and performance
[AD-A137043] 10 p1551 N84-20164
POTTER, G. L.
Commentary on the recent CO2-climate controversy
[DE83-016367] 04 p0565 N84-13722
POTTER, J. M.
Effects of bonding temperatures on fatigue crack growth
[AD-A130396] 01 p0094 N84-10615
High-Q perpendicular-biased ferrite-tuned cavity
[DE83-017291] 04 p0529 N84-13478
Use of small crack data to bring about and quantify improvements to aircraft structural integrity
[AD-A135012] 08 p1170 N84-17623
Practical aspects of tuning a ringed RFQ
[DE84-011366] 20 p3175 N84-30163
Effects of variations in coldworking repair procedures on flaw growth and structural life
[AD-A141966] 20 p3202 N84-30336
POTTER, P. G.
The effects of weather on rapid runway repair, volume 2
[AD-A130350] 01 p0016 N84-10105
POTTER, R. M.
Microearthquakes induced during hydraulic fracturing at the Fenton Hill HDR site: The 1982 experiments
[DE83-014191] 03 p0408 N84-12672
POTTER, R. T.
The significance of defects and damage in composite structures 01 p0035 N84-10219
POTTERS, J. H. H. M.
A numerical model for diffusion of helium in a hydrogen plasma
[REPT-83-147] 03 p0450 N84-12964
Transport of deuterium, tritium and helium in a Tokamak
[REPT-84-150] 17 p2766 N84-27567
POTTS, C.
Performance of the intense pulsed neutron source accelerator system
[DE84-003607] 07 p1072 N84-16966
POTTS, M. J.
Microprocessor automation for the Dynaflect Deflection Measuring System
[PB84-180413] 20 p3171 N84-30135
POTTS, T.
Calcium-thionyl chloride battery technology
[AD-A133570] 06 p0830 N84-15401
POTURALSKI, R. J.
Maze-solving as a performance measurement tool for human operations under time-stress
[AD-A133394] 07 p1050 N84-16799
POUAGARE, M.
Annulus wall boundary layer development in a compressor stage, including the effects of tip clearance
07 p0957 N84-16207
POUBEAU, P. C.
Kinetic energy accumulator applications to electric vehicles
[SNIAS-831-422-101] 07 p1088 N84-17074
POUKEY, J. W.
IBEX: Annular beam propagation experiment
[DE84-000456] 04 p0599 N84-13954
Simulation of electromagnetic instabilities of high-voltage gaps
[DE84-010624] 18 p2812 N84-27851
Experimental investigation of certain beam transport issues in a pulsed transmission line linear accelerator
[DE84-011191] 22 p3654 N84-33164
POULET, G.
Kinetic studies of atmospheric reactions of OH radicals 13 p2012 N84-23050
Kinetics and products of the reaction OH + HNO3
13 p2012 N84-23051
POULIN, E.
Steam bottoming cycle for an adiabatic diesel engine
[NASA-CR-168255] 22 p3676 N84-33304
POULSEN, P. D.
Longwall shearer tracking system
[NASA-CASE-MFS-25717-1] 23 p3749 N84-33768
POULSON, W. J.
Termination of cylindrical grooved optical cables
11 p1720 N84-21220
POULTER, L. N. J.
Defect sizing using the time of flight technique on the RNL RSV plate
[ND-R-790(R)] 18 p2850 N84-28099
POURAHMADI, F.
Generalized algebraic relation for predicting developing curved-channel flow with a k-epsilon model of turbulence
[DE83-009946] 01 p0080 N84-10520
Prediction of erosive wear by solid particles in a turbulent curved-channel flow
[DE83-012896] 01 p0081 N84-10524
POURBAIX, E.
Numerical prediction of multireactive turbulent flows by a Eulerian-Lagrangian method
[ONERA-NT-1983-9] 16 p2488 N84-25959
POURING, A. A.
NAHBE (Naval Academy Heat Balanced Engine) m151 retrofit evaluation
[AD-A133475] 06 p0853 N84-15559
POUSSIN, J. F.
Preparation of standard electrical testability provisions for space equipment. Volume 1: Executive summary
[DM.51/CV/JP/327.83-VOL-1]
08 p1153 N84-17507
Preparation of standard electrical provisions for space equipments
[DM.51/CV/JP/327.83-VOL-2]
08 p1153 N84-17508
POUTANEN, M.
The 433 Eros and 624 Hektor. A physical model for two highly elongated asteroids 09 p1414 N84-19250
POUX, C.
Thermal cycling tests in space environment simulation chambers 10 p1440 N84-19401
POUZET, A. M.
Thermal control of Telecom 1
10 p1441 N84-19413
POVINELLI, L. A.
Assessment of three-dimensional inviscid codes and loss calculations for turbine aerodynamic computations
[NASA-TM-83571] 07 p0947 N84-16142
Comparison of secondary flows predicted by a viscous code and an inviscid code with experimental data for a turning duct
[NASA-TM-83575] 08 p1098 N84-17142
Hot-flow tests of a series of 10-percent-scale turbofan forced mixing nozzles
[NASA-TP-2268] 08 p1156 N84-17525
Application of a quasi-3D inviscid flow and boundary layer analysis to the hub-shroud contouring of a radial turbine
[NASA-TM-83669] 16 p2439 N84-25647
POVOLOTSKII, V. D.
Abrasive properties of ferroalloys
[BLL-M-35416-(5828.4)] 07 p0973 N84-16306
POW, J. J.
The development of computer routines to perform a comprehensive analysis of spectroscopic data from diatomic molecules
[AD-A138063] 12 p1791 N84-21680
POWELL-JONES, O. C.
Investigation of a cylindrical inflated beam-column structure
[BU-301] 15 p2350 N84-25105
POWELL, B. E.
The conjoint action of high and low cycle fatigue
[AD-A139205] 14 p2158 N84-23927
POWELL, C. A.
Psychoacoustic considerations for helicopter noise quantification: Metrics, human response and criteria
19 p3098 N84-29675
Studies of noise transmission in advanced composite material structures 20 p3146 N84-29977
Annoyance caused by propeller airplane flyover noise
[NASA-TP-2356] 21 p3491 N84-32124
POWELL, C. J.
Extended development procedure EDeP user's manual
[AD-A131381] 01 p0116 N84-10756
POWELL, E. S.
Combustion performance of a vitiated air heater for a freejet test facility 13 p1952 N84-22691
POWELL, F. D.
Economic impact of fuel properties on turbine powered business aircraft 14 p2109 N84-23646
Study of effects of fuel properties in turbine-powered business aircraft
[NASA-CR-174627] 16 p2473 N84-25854
POWELL, G. H.
Computational models for cyclic plasticity, rate dependence and creep in finite element analysis
[PB83-245829] 04 p0505 N84-13308
Generalized plastic hinge concepts for 3D beam-column elements
[PB83-247981] 04 p0516 N84-13391
Inelastic analysis of piping and tubular structures
[PB83-249987] 04 p0550 N84-13623
ANSR-3: General purpose computer program for nonlinear structural analysis
[PB83-251330] 05 p0694 N84-14556
POWELL, G. L.
Effect of hydrogen on the mechanical properties of a U5.7Nb alloy
[DE84-006679] 12 p1799 N84-21732
POWELL, H. M.
Multichannel detection systems available for flow diagnostics at AEDC
[AD-A132302] 16 p2452 N84-25722
POWELL, J.
Radar altimetry over sea ice 17 p2719 N84-27309
POWELL, J. A.
Silicon carbide, a high temperature semiconductor
[NASA-TM-83514] 05 p0752 N84-14932
POWELL, J. D.
Thermal-energy transport from arc to rails in an arc-driven rail gun
[AD-A134991] 08 p1152 N84-17499
POWELL, J. G. C.
The aerodynamic effects of cavities in a body
[BU-289] 15 p2256 N84-24547
POWELL, J. H.
Evaluation of long-duration exposure to the natural space environment on graphite-polyimide and graphite-epoxy mechanical properties (A0175)
15 p2272 N84-24643
POWELL, J. R.
Fusion and high temperature electrolysis
11 p1740 N84-21350
POWELL, K. G.
Conical flows with leading edge vortices
15 p2333 N84-25013
POWELL, N. R.
Some critical issues in VLSI signal processor implementation 09 p1403 N84-19164
POWELL, P.
Computer science and technology: Future information processing technology, 1983
[PB83-257618] 06 p0896 N84-15820
NASA-Ames Summer High School Apprenticeship Research Program (SHARP)
[NASA-TM-85554] 18 p2943 N84-28661
Rapid electrolyte exchange procedures for 22 AH nickel-cadmium celgard cells
[AD-A142004] 20 p3177 N84-30178

NASA Ames summary high school apprenticeship research program, 1983 research papers
[NASA-TM-85931] 22 p3684 N84-33365

POWELL, R. C.
Spectroscopic investigations of materials for tunable infrared lasers
[AD-A138324] 12 p1821 N84-21869

POWELL, R. L.
Structure and properties of polyethylene
[PB83-243931] 02 p0202 N84-11316

POWELL, R. W.
Effect of aerodynamic and angle-of-attack uncertainties on the blended entry flight control system of the Space Shuttle from Mach 10 to 2.5
[NASA-TP-2283] 14 p2110 N84-23652

POWELL, S. H.
Improved high temperature resistant matrix resins
[NASA-CR-166210] 19 p2998 N84-28995
Development of partially fluorinated resin apex seals
[NASA-CR-174706] 22 p3603 N84-32828

POWER, J. L.
Ground correlation investigation of thruster spacecraft interactions to be measured on the IAPS flight test
[NASA-TM-83598] 14 p2118 N84-23691

POWERS, B. G.
Space shuttle pilot-induced-oscillation research testing
[NASA-TM-86034] 11 p1615 N84-20566

POWERS, D. A.
Biochemical indicators of thermal stress: Selected genetic and physiological parameters
[PB84-100122] 08 p1198 N84-17808

POWERS, D. R.
Strain histories associated with stage separation systems using linear shaped charge
10 p1508 N84-19874

POWERS, E. J.
Electronics research at the University of Texas at Austin
[AD-A131130] 02 p0213 N84-11397

POWERS, E. L.
Early mechanisms in radiation-induced biological damage
[DE84-001511] 04 p0572 N84-13765

POWERS, G. D.
Autonomic influences on peripheral circulatory and thermal responses to cold
[AD-A134444] 08 p1201 N84-17831
Regulation and characteristics of cold-induced vasodilation
[AD-A143797] 23 p3810 N84-34158

POWERS, J. M.
Word processors in aerospace/defense information services: Use of distributed information systems by the Office of the Secretary of Defense
11 p1751 N84-21429

POWERS, J. P.
An investigation of experimental techniques for obtaining particulate behavior in metallized solid propellant combustion 13 p1947 N84-22659

POWERS, L.
Absolutely unstable stimulated Brillouin scattering and 2-plasmon decay
[DE84-000823] 04 p0611 N84-14032

POWERS, L. V.
Experiments and theory on half-harmonic light and 2-plasmon decay
[DE84-008945] 20 p3193 N84-30276

POWERS, R. W.
Preliminary design study of a higher harmonic blade feathering control system
[NASA-CR-159327] 23 p3695 N84-33418

POWERS, S. A.
Study of aerodynamic technology for single-cruise engine V/STOL fighter/attack aircraft
[NASA-CR-166271] 19 p2956 N84-28737

POWLETTE, D.
The aircraft infrared measurements guide
[AD-A132598] 05 p0747 N84-14905

POYNTER, R. L.
Submillimeter, millimeter, and microwave spectral line catalogue
[NASA-CR-173899] 22 p3546 N84-32448

POZHARSKIY, G. O.
Method of determining intensity of elimination of microorganisms from human upper respiratory tract
15 p2377 N84-25264
Effect of living conditions in confined space on formation of bacterial aerosol 20 p3255 N84-30659

POZHUYEV, V. I.
Effect of pressure wave on cylindrical sandwich shell immersed in compressible fluid
17 p2650 N84-26948

PRABHAKARA, C.
A statistical method to sense sea surface temperature from the Nimbus-7 scanning multichannel microwave radiometer 12 p1835 N84-21964
Nimbus 7 SMMR derived seasonal variations in the water vapor, liquid water and surface winds over the global oceans
[NASA-TM-86080] 16 p2528 N84-26233

PRABHAKARAN, R.
Structural efficiency studies of corrugated compression panels with curved caps and beaded webs
[NASA-TP-2272] 09 p1329 N84-18675

PRABHU, R. K.
A modified lifting line theory for wing-propeller interference
[NASA-CR-173324] 09 p1252 N84-18171

PRADO, G.
Formation and destruction of organic pollutants in thermal systems and flames 15 p2291 N84-24752

PRADO, K. L.
A study of thick-target X-ray spectra using photonuclear reactions
[AD-A132543] 04 p0596 N84-13934

PRAEG, W. F.
Dual aperture dipole magnet with second harmonic component
[DE84-011305] 20 p3285 N84-30856

PRAGER, S. C.
Experimental observation of the shear Alfven resonance in a Tokamak
[DE84-012993] 20 p3306 N84-30998

PRAH, J. D.
Neurobehavioral effects of carbon monoxide (CO) exposure in humans protocol 1
[AD-A133891] 06 p0888 N84-15774

PRAHARAJ, S. C.
MINIVER upgrade for the AVID system. Volume 1: LANMIN user's manual
[NASA-CR-172212] 01 p0120 N84-10779

PRAKASAM, B.
Investigation of aerodynamics of non axisymmetric projectiles
[AD-A139107] 14 p2101 N84-23609

PRALUS, Y.
Computer aided ultrasonic testing
[CETIM-15-H-404] 21 p3416 N84-31661

PRASAD, C.
Studies in environmental geomorphology of Dudhatoli Ridge Garhwal, Himalay, India 23 p3770 N84-33902

PRASAD, S. N.
Continuum mechanics approach to streamflow modeling
[PB83-265041] 05 p0698 N84-14581
Wideband monolithic microwave amplifier study
[AD-A136424] 09 p1318 N84-18608

PRASAD, V.
Natural convection in porous media: An experimental and numerical study for vertical annular and rectangular enclosures 22 p3592 N84-32744

PRASTAULT, P.
Possibilities of infrared spectroscopy with tunable semiconductro lasers
[ONERA-NT-1983-4] 16 p2462 N84-25782

PRASTHOFER, W. P.
Cryogenic insulation strength and bond tester
[NASA-CASE-MFS-25910-1] 02 p0199 N84-11297

PRATER, J. T.
Improved corrosion resistance of fine-grained 304 stainless steel in H20-CO-CO2-N2 atmospheres
[DE83-013755] 01 p0046 N84-10295
Sputter-deposited metallic and ceramic coatings for heat engines
[DE84-011401] 20 p3154 N84-30030

PRATER, R.
Superconducting magnets for gyrotron tubes
[DE83-012815] 02 p0299 N84-11962
Density variation due to wave heating in Tokamak plasmas
[DE84-009402] 20 p3305 N84-30993

PRATER, T. A.
Environmental crack-growth-measurement techniques
[DE83-900734] 01 p0097 N84-10630

PRATO, T. A.
Reference plant for high temperature electrodialysis desalting of seawater
[PB84-195841] 22 p3549 N84-32471

PRATS, B. D.
High altitude maneuver control tests in the NSWC (Naval Surface Weapons Center) hypervelocity wind tunnel
[AD-A136105] 09 p1253 N84-18178

PRATS, F.
Investigations of the structure and electromagnetic interactions of few body systems
[DE84-006852] 12 p1902 N84-22388

PRATT, B. G.
Automating the source selection process
[AD-P002835] 13 p2063 N84-23380

PRATT, D. T.
Interactive computer modeling of combustion chemistry and coalescence-dispersion modeling of turbulent combustion 11 p1612 N84-20553
Exponential-fitted methods for integrating stiff systems of ordinary differential equations: Applications to homogeneous gas-phase chemical kinetics
21 p3355 N84-31279

PRATT, J. C.
Smarter radiation monitors for safeguards and security
[DE83-015259] 02 p0224 N84-11468
Multi-isotopic gamma ray assay system for alpha contaminated waste
[DE83-015254] 02 p0292 N84-11917

PRATT, M.
Requirements for migration of NSSD code systems from LTSS to NLTSS
[DE84-009533] 15 p2395 N84-25368

PRATT, R. L.
RSRE speech data base recordings (1983). Part 1: Specification of vocabulary and recording procedure
[AD-A139361] 15 p2318 N84-24916

PRATT, S. T.
Photoelectron studies of resonant multiphoton ionization of CO via the A-1 Pi state
[DE83-008535] 06 p0916 N84-15956
Photoelectron studies of excited molecular states: H2 C (1)Pi(sub u) and N2 o3 (1)Pi(sub u)
[DE84-006663] 20 p3294 N84-30917
Photoionization of excited molecular states using multiphoton excitation techniques
[DE84-004034] 20 p3296 N84-30925

PRATT, T.
Ice depolarization on low-angle 2 GHz satellite downlinks 15 p2323 N84-24946

PRATT, T. W.
A model for the distributed storage and processing of large arrays
[NASA-CR-172252] 03 p0420 N84-12742

PRATT, W. K.
Digital image processing and analysis
16 p2490 N84-25974

PRATTI, C. S. C.
Portable kernel for computers
[INPE-2877-PRE/403] 02 p0271 N84-11775

PRAUSNITZ, J. M.
Molecular basis for local compositions in liquid-mixture models
[DE83-016604] 04 p0495 N84-13250
Diffusion and sorption of cyclohexane vapor in SBS and SBR copolymers
[AD-A132397] 04 p0506 N84-13315

PRAVER, G.
Module utilization committee
[NASA-CR-173898] 22 p3617 N84-32920

PRAVETSKIY, N. V.
Normal human coronary circulation during postural tests and decompression of lower half of body
02 p0259 N84-11699

PRAVOSUKOV, V. P.
Circulatory changes in orthostatic position in the presence of hyperthermia 20 p3253 N84-30647

PREDEL, B.
Thermodynamics of the decomposition of liquid alloys
17 p2612 N84-26721

PREGIBON, D.
New approaches to robust confidence intervals for location: A simulation study
[AD-A142248] 19 p3094 N84-29646

PREIS, H.
Study on diffusion of the vertical magnetic field in the toroidal stabilizing shell of the ZT-40M reversed-field-pinch device
[DE83-016353] 04 p0610 N84-14023

PREISSER, J. S.
Test-engine and inlet performance of an aircraft used for investigating flight effects on fan noise
[NASA-TP-2254] 11 p1729 N84-21277

PREISSNER, J.
Mathematical models for the brightness temperature of object and environment in the microwave region
[DFVLR-FB-83-12] 02 p0211 N84-11378

PRELLER, R. H.
Results from a two-layer and a reduced gravity model of the Alboran Sea; and vertical shear from tops
[AD-A133753] 06 p0884 N84-15752
Statistics of vertical shear from a hemispheric model
[AD-A136179] 10 p1543 N84-20111

PRENGER, F. C.
Two-dimensional vapor flow analysis in heat pipes
[DE84-012581] 21 p3402 N84-31582

PREOBRAZHENSKIY, I. N.
An approach for estimating the impact of carbon-reinforced plastic 24 p3868 N84-34515

PREPARATA, F. P.
A minimum area VLSI (Very Large Scale Integrated) architecture for O(logn) time sorting
[AD-A142414] 20 p3266 N84-30723
New algorithms for near neighbor searching
[AD-A142404] 20 p3280 N84-30824
PRESAS, S. J.
The design and development of two-failure tolerant mechanisms for the Spaceborne Imaging Radar (SIR-B) antenna 15 p2348 N84-25087
PRESCOTT, C. Y.
Physics with polarized beams in e+e(-) colliders
[DE83-016441] 04 p0602 N84-13976
PRESCOTT, J. F.
Low cost acetylene terminated polymers
[AD-A140040] 19 p2998 N84-28996
PRESKAR, W.
Low-Altitude Database Development Evaluation and Research (LADDER)
[AD-P003468] 21 p3511 N84-32243
PRESLES, H. N.
Shock front pumped stokes and anti-stokes reflectivity contributions
[AD-A139134] 14 p2145 N84-23857
PRESLEY, B. J.
Salts in the dry valleys of Antartica 13 p2085 N84-23510
PRESLEY, H. W.
Tape heating method for space simulation testing 24 p3864 N84-34488
PRESS, L.
Microcomputers: Introduction to features and uses
[PB84-178821] 17 p2750 N84-27456
PRESSLEY, H.
Insitu measurement of burning rate 13 p1944 N84-22639
PRESSON, P. E.
Software quality measurement for distributed systems, volume 1
[AD-A137955] 11 p1707 N84-21128
Software quality measurement for distributed systems. Volume 2: Guidebook for software quality measurement
[AD-A137956] 11 p1707 N84-21129
Software quality measurement for distributed systems. Volume 3: Distributed computing systems. Impact on software quality
[AD-A137957] 11 p1708 N84-21130
Software interoperability and reusability, volume 1
[AD-A138477] 12 p1883 N84-22276
Software interoperability and reusability. Volume 2: Guidebook for software quality measurement
[AD-A138478] 12 p1884 N84-22277
PRESSOUYRE, G. M.
The role of traps in the microstructural control of hydrogen embrittlement of steels
[AD-A141249] 18 p2814 N84-27863
PRESTON, C. C.
Imaging of fast-neutron sources using solid-state track-recorder pinhole radiography
[DE84-001466] 05 p0685 N84-14504
PRESTON, J.
An approach to molecular composites
[AD-A130192] 01 p0141 N84-10927
PRESTON, R.
Results of the Australian geodetic VLBI experiment 04 p0520 N84-13416
PRESTON, R. A.
Arcsecond positions for milliarcsecond VLBI nuclei of extragalactic radio sources, part 2: 207 sources 16 p2478 N84-25890
PRESTON, R. R.
ICAM (Integrated Computer Aided Manufacturing) conceptual design for computer-integrated manufacturing. Volume 4, part 5, task D: Quality assurance/quality, control/technical requirement/tasks, quality assurance modeling and analysis, architecture for product assurance, (TTD)
[AD-A144691] 24 p3948 N84-34999
PRETTIE, C. W.
Results of PLACES data analysis
[AD-A130933] 01 p0066 N84-10432
The microstructure theory for three dimensional plasma transport
[AD-A136285] 12 p1910 N84-22441
PREUSS, H.
Verification of the radiation budget in numerical models 10 p1535 N84-20059
PREUSS, L.
Spacecraft thermal control selection for seven years of lifetime in synchronous orbit
[MBB-UR-584-82-OE] 02 p0185 N84-11200
Investigation of critical surface degradation effects on coatings and solar cells developed in Germany (S1002) 15 p2275 N84-24658
Testing of coatings in space, Long Duration Exposure Facility (LDEF)
[BMFT-FB-W-84-017] 21 p3353 N84-31269
PREVIC, F. H.
N1 and P1 components of the visual evoked response in humans. A topographical and functional comparison
[AD-A137030] 10 p1547 N84-20141
PREVORSEK, D. C.
New high performance windshield/canopy materials
[AD-P003199] 17 p2592 N84-26612
PREVOT, L.
Evaporation from a bare soil evaluated from a soil water transfer model using remotely sensed surface soil moisture data
[CRPE-NT-125] 13 p2006 N84-23016
PREWETT, R.
Integrated Computer-Aided Manufacturing (ICAM) architecture, part 3. Volume 7: MFG01 glossary
[AD-A144426] 24 p3947 N84-34991
PREZDZLECKI, S.
Analysis of the solution of the problem of diffraction on an asymmetric impedance half-plane
[ISSN-0208-5658] 23 p3729 N84-33633
PRIBRAM, K. H.
Neurophysiological bases of event-related potentials
[AD-A135263] 09 p1362 N84-18897
PRIBYL, P.
Passive and active circuits for vertical plasma stabilization
[DE84-008857] 18 p2933 N84-28599
PRICE, A. O.
Experimental investigation of shock-cell noise reduction for dual-stream nozzles in simulated flight comprehensive data report. Volume 1: Test nozzles and acoustic data
[NASA-CR-168336-VOL-1] 14 p2220 N84-24323
Experimental investigation of shock-cell noise reduction for dual-stream nozzles in simulated flight comprehensive data report. Volume 2: Laser velocimeter data, static pressures and shadowgraph photos
[NASA-CR-168336-VOL-2] 14 p2220 N84-24324
Experimental investigation of shock-cell noise reduction for single-stream nozzles in simulated flight, comprehensive data report. Volume 1: Test nozzles and acoustic data
[NASA-CR-168234-VOL-1] 22 p3652 N84-33148
Experimental investigation of shock-cell noise reduction for single-stream nozzles in simulated flight, comprehensive data report. Volume 2: Laser velocimeter data
[NASA-CR-168234-VOL-2] 22 p3652 N84-33149
Experimental investigation of shock-cell noise reduction for single-stream nozzles in simulated flight, comprehensive data report. Volume 3: Shadowgraph photos and facility description
[NASA-CR-168234-VOL-3] 22 p3652 N84-33150
PRICE, C. F.
Modeling the self-deflagration of HMX 13 p1951 N84-22682
PRICE, C. H., JR.
HQ AFSC selection of a microprocessor development system
[AD-A134930] 08 p1210 N84-17891
PRICE, C. R.
The triangle compare method of hidden-line elimination 12 p1873 N84-22205
PRICE, C. W.
Simulations of erosion/corrosion surface chemical reactions with a laser beam
[AD-A143001] 21 p3366 N84-31354
Fundamental mechanisms of multi-phase flow erosion/corrosion of solid surfaces
[AD-A143041] 21 p3366 N84-31355
PRICE, D. A.
Detonation parameters for Australian high-explosives composition
[MRL-R-822] 17 p2628 N84-26812
Detonation parameters for Australian high-explosives composition
[AD-A143655] 23 p3726 N84-33609
PRICE, D. B.
Feedback laws for fuel minimization for transport aircraft 11 p1617 N84-20579
PRICE, D. L.
Chopper spectrometers
[DE84-009205] 19 p3026 N84-29193
Momentum distributions in hcp, bcc, and liquid He-4
[DE84-014679] 23 p3831 N84-34300
PRICE, D. R.
Aeromedical support in military helicopter operations 16 p2536 N84-26280
PRICE, E. A., JR.
Test techniques for jet effects on fighter aircraft 14 p2098 N84-23589
PRICE, E. W.
Dependence of burning rate of AP-polymer sandwiches on thickness of the binder laminae 13 p1946 N84-22653
Conditions for inflammation of accumulated aluminum in the propellant combustion zone 13 p1947 N84-22660
The two-slab burning problem
[AD-A139818] 15 p2287 N84-24719
Combustion of ammonium perchlorate-polymer sandwiches
[AD-A139873] 15 p2302 N84-24814
PRICE, H. E.
A review of major issues relating to human-machine integration in the development of military systems
[AD-A136739] 10 p1554 N84-20184
An introduction to human factors for engineering managers: Framework for a teaching unit
[AD-A135958] 10 p1592 N84-20428
PRICE, J. C.
Information content of data from the LANDSAT 4 Thematic Mapper (TM) and multispectral scanner (MSS)
[E84-10034] 04 p0551 N84-13628
Comparison of the information content of data from the LANDSAT 4 Thematic Mapper and the multispectral scanner
[E84-10081] 08 p1173 N84-17641
Comparison of the information content of data from the LANDSAT-4 Thematic Mapper and the Multispectral Scanner 20 p3215 N84-30420
PRICE, J. M.
Space Shuttle main engine powerhead structural modeling, stress and fatigue life analysis. Volume 1: Gasdynamic environment of the SSME HPFTP and HPOTP turbines
[NASA-CR-170999] 11 p1625 N84-20635
Space Shuttle main engine powerhead structural modeling, stress and fatigue life analysis. Volume 2: Dynamics of blades and nozzles SSME HPFTP and HPOTP
[NASA-CR-171000] 11 p1625 N84-20636
Space Shuttle main engine powerhead structural modeling, stress and fatigue life analysis. Volume 3: Stress summay of blades and nozzles at FPL and 115 percent RPL loads. SSME HPFTP and HPOTP blades and nozzles
[NASA-CR-171001] 11 p1625 N84-20637
PRICE, K. P.
Land use inventory of Salt Lake County, Utah from color infrared aerial photography 1982
[E84-10015] 02 p0237 N84-11553
Riparian habitat on the Humboldt River, Deeth to Elko, Nevada
[E84-10116] 14 p2167 N84-23976
PRICE, R.
Experiments to study the feasibility of making an X-ray laser at the Novette laser facility
[DE83-015615] 03 p0380 N84-12476
PRICE, R. E.
World survey of magnetic mirror confinement research facilities
[DE84-009715] 19 p3108 N84-29749
PRICE, R. H.
Creation of ultra-high-pressure shocks by the collision of laser-accelerated disks: Experiment and theory
[DE83-017366] 03 p0382 N84-12486
Ultrafast gated intensifier design for laser fusion X-ray framing applications
[DE84-007761] 15 p2339 N84-25038
High image quality sub 100 picosecond gated framing camera development
[DE84-008326] 19 p3028 N84-29203
PRICE, S. D.
The far infrared sky survey experiment
[AD-A131966] 03 p0461 N84-13037
The revised AFGL (Air Force Geophysics Laboratory) Infrared Sky Survey Catalog
[AD-A134007] 05 p0763 N84-15005
PRICE, W. E.
A guideline for heavy ion radiation testing for Single Event Upset (SEU)
[NASA-CR-173731] 18 p2929 N84-28576
PRICE, W. L.
A sixth annotated bibliography of recent publications on data security and cryptography
[NPL-DITC-35/83] 15 p2385 N84-25305
PRICKETT, M. J.
Stepped frequency radar target imaging
[AD-D011187] 24 p3893 N84-34652
PRIDDEN, C. H.
Emissions variability and traversing on production RB211 engines
[PNR-90176] 13 p1933 N84-22573
PRIDE, D. E.
Mineral resources of Antarctica 14 p2160 N84-23937

PRIDEAUX, P. H.
Optical and mechanical properties of single mode cables at 1300 nm 11 p1726 N84-21258
PRIDMAN, V. M.
Balancing of flexible rotors with simultaneous precise determination of influencing factors 13 p1974 N84-22808
PRIEDHORSKY, W. C.
Ten years of Vela X-ray observations
[DE84-001302] 07 p1094 N84-17114
PRIESS, K.
Automated detection of internal and surface defects in moving strip
[BMFT-FB-T-84-079] 19 p3033 N84-29239
PRIETO-LLANOS, T.
Study on optimal tracking strategy
[GMV-211/83] 08 p1113 N84-17243
PRIETO-VILLALBA, J.
Study on optimal tracking strategy
[GMV-211/83] 08 p1113 N84-17243
PRIETO, N. E.
Luminescence probe studies of nafion polyelectrolytes
[AD-A133519] 06 p0801 N84-15224
Luminescence titrations of polyelectrolytes
[AD-A140823] 17 p2619 N84-26763
PRIEUR, J.
The European Transonic Windtunnel (ETW) 14 p2094 N84-23566
PRIGODA, B. A.
Radomes for flight vehicles
[AD-A140174] 16 p2483 N84-25920
PRIKHODKO, M. U.
A melt for the electrolytic application of titanium plating
[BLL-OA-TRANS-3111-(6L96.3)] 06 p0804 N84-15241
PRIKHODKO, V. A.
Interpretation of gravitational anomalies on Mars, Venus and Earth 19 p2975 N84-28659
PRIKHOTKO, A. F.
Nature of polarized vibronic sidebands of biexciton absorption in Alpha-oxygen 20 p3289 N84-30884
PRIMDAHL, I. S.
Occurrences of the polar Slant E Condition (SEC) at Narssarssuaq, Godhavn, Thule, 1981
[ISSN-0108-2922] 02 p0251 N84-11642
PRIMENKO, V. I.
Theoretical calculation of the temperature dependence of thermal conductivity of glass
[CSIR-TRANS-1686] 01 p0049 N84-10314
PRIMROSE, K. A.
MAGNA (Materially And Geometrically Nonlinear Analysis). Part 2: Preprocessor manual
[AD-A129025] 01 p0120 N84-10782
PRINCE, E.
Relation between structure and conductivity in the nasicon solid solution system 11 p1743 N84-21374
PRINCE, J. M.
Relationships between strength, electrical conductivity, and density for oxidized PGX graphite
[DE83-016184] 04 p0507 N84-13325
PRINCE, T. A.
Research in particles and fields
[NASA-CR-173928] 23 p3845 N84-34392
PRINGLE, J. E.
Dwarf novae through the outburst cycle 24 p3979 N84-35203
PRINGLE, O. A.
Neutron-scattering studies of magnetic superconductors
[DE84-000393] 04 p0614 N84-14054
PRINJA, R. K.
Observations of extensive variability in the ultraviolet spectrum of xi Per 24 p3977 N84-35190
PRINTY, M. F.
A kinetic energy study of the meso beta-scale storm environment during AVE-SESAME 5 (20-21 May 1979)
[NASA-CR-3820] 23 p3800 N84-34090
PRINZ, D. K.
An extreme ultraviolet spectrometer experiment for the Shuttle Get Away Special Program 18 p2801 N84-27778
PRINZ, F. B.
An algorithm for seam tracking applications
[AD-A141705] 19 p3031 N84-29227
Robotic seam tracking
[AD-A141769] 19 p3031 N84-29228
PRINZ, R.
Growth of delaminations under fatigue loading 01 p0033 N84-10208
PRIOR, H. L.
Thematic Mapper data quality and performance assessment in renewable resources/agriculture remote sensing 20 p3215 N84-30422
PRISENKO, V. G.
Nucleic acid content of canine liver during long-term experimental hypokinesia 15 p2377 N84-25267
PRISTAVAKINA, Y. I.
Density model of upper mantle under oceans 18 p2858 N84-28147
PRITCHARD, A. J.
The linear quadratic optimal control problem for infinite dimensional systems with unbounded input and output operators
[AD-A139333] 14 p2214 N84-24296
PRITCHARD, C. L.
Gasogen for automobile use
[DE84-000712] 06 p0813 N84-15291
PRITCHARD, D. E.
Atomic resonance and scattering 22 p3681 N84-33339
PRITCHARD, E. B.
Space station needs, attributes, and architectural options. Volume 1. Executive summary
[NASA-CR-173710] 18 p2806 N84-27816
PRITCHARD, L.
Interactive Hazardous Materials Information System (HMIS): Description and assessment
[AD-A138329] 12 p1919 N84-22500
PRITCHARD, N. D., JR.
Characteristics of a four nozzle, slotted mixing stack with slanted shroud, gas eductor system
[AD-A134794] 08 p1159 N84-17547
PRITCHARD, W. G.
Numerical schemes for a model for nonlinear dispersive waves
[NASA-CR-175416] 11 p1714 N84-21179
PROCHAZKA, T. M.
Elastomeric impression materials and cleaning systems for residue removal
[RFP-3442] 06 p0814 N84-15296
PROCHKHIDZE, T. D.
Magnetic effect of quiet ring current 17 p2708 N84-27244
PROCTOR, B. L.
Study of outgassing and decomposition of Space Shuttle heat protection tiles, fillers and adhesive
[NASA-CR-173974] 24 p3860 N84-34465
PROCTOR, F. H.
A numerical study on the evolution of tornadoes 03 p0409 N84-12679
PROCTOR, J. G.
Wall pressure signature wind-tunnel wall-constraint correction methods
[BAE-ARG-188] 20 p3132 N84-29887
PROCTOR, J. S.
An analysis of Department of Defense financial and acquisition policies in support of military contingency requirements
[AD-A140820] 17 p2773 N84-27607
PROCTOR, M. L.
Analytical and experimental study of grooved pavement runoff
[AD-A141021] 18 p2798 N84-27752
PROCTOR, M. P.
Combustor flame flashback 11 p1614 N84-20561
PROCTOR, R.
Routine storm surge forecasting using numerical models: Procedures and computer programs for use on the CDC CYBER 205E at the British Meteorological Office
[IOS-167] 18 p2891 N84-28353
PRODELL, A.
Magnetic field measurements of superconducting magnets for the colliding beam accelerator
[DE83-017351] 04 p0603 N84-13982
PRODI, F.
Topics in cloud physics relevant to radar meteorology 18 p2887 N84-28326
PROFFER, W. J.
Study of excited state energy transfer processes
[AD-A131777] 03 p0433 N84-12837
PROGAR, D. J.
Surface analysis of graphite fiber reinforced polyimide composites
[NASA-TM-85700] 02 p0188 N84-11220
Hot melt recharge system
[NASA-CASE-LAR-12881-1] 05 p0658 N84-14323
Processing study of a polyimidesulfone adhesive
[NASA-TM-85742] 07 p0978 N84-16339
Hot melt adhesive pad surface attachment assembly concept for on-orbit operations
[NASA-TM-85771] 12 p1777 N84-21598
PROKHOROV, A. M.
Waveguide CO2 laser with 7.5 W power rating 21 p3487 N84-32098
Focusers of obliquely incident laser radiation 21 p3487 N84-32099
PROKHOROV, Y. N.
Algorithms of adaptive Markov filtration of noisy speech signals 17 p2630 N84-26822
PROKOPENKO, S. M. L.
Numerical simulation of spacecraft charging phenomena at high altitude
[AD-A130043] 01 p0028 N84-10178
PROKOPYEV, A. I.
Complemented Scharfetter-Gummel condition 17 p2636 N84-26864
PROKOSHIN, A. F.
Amorphous materials from precision alloys
[BLL-M-35179-(5828.4)] 01 p0041 N84-10264
PROKSCH, E.
Activities report of the Department of Chemistry
[OEFZS-4273] 18 p2931 N84-28588
PROMISEL, D. M.
Reverse engineering of the multiple launch rocket system. Human factors, manpower, personnel, and training in the weapons system acquisition process
[AD-A142849] 21 p3349 N84-31247
PRONCHICK, S. W.
An experimental investigation of the structure of a turbulent reattaching flow behind a backward-facing step 06 p0832 N84-15415
PRONK, G.
A model of the shoulder girdle for use in rehabilitation 20 p3264 N84-30710
PRONK, N.
Transonic flutter clearance for a supercritical transport aircraft in the preliminary stage 02 p0170 N84-11121
PRONKO, M. S.
An investigation of accelerating mechanisms in a plasma focus relevant to interrupting switches
[AD-A133462] 06 p0920 N84-15983
PROPEN, M.
Present capabilities and future requirements for computer-aided geometric modeling in the design and manufacture of gas turbine 12 p1875 N84-22219
PROPP, K. E.
The geomagnetosystem: Charged particle trajectories in the geomagnetic tail 16 p2581 N84-26556
PROSCH, T.
Videopolarimetry of water surfaces
[BMFT-FB-W-83-020] 07 p1075 N84-16990
A conical scan radiometer for an airplane mission 10 p1534 N84-20050
PROSCHAN, F.
Convex-ordering among functions, with applications to reliability and mathematical statistics
[AD-A132796] 05 p0736 N84-14833
Total positivity, a review
[AD-A133691] 05 p0740 N84-14859
Component relevancy in multistate systems
[AD-A137727] 11 p1713 N84-21169
TP2 orderings
[AD-A143434] 22 p3648 N84-33132
PROSCIA, J.
Optimization of transparent electrode for solar cell and chemical vapor deposition of amorphous silicon
[DE83-017780] 12 p1843 N84-22014
PROSCIA, W. M.
A comprehensive chemical kinetic reaction mechanism for the oxidation of n-butane
[DE84-005739] 22 p3549 N84-32467
PROSKUROVA, G. I.
Energy metalbolism enzymes in simulation of some spaceflight factors 02 p0260 N84-11704
PROSNITZ, D.
Simulation of a high-gain tapered-wiggler free-electron laser
[DE84-001237] 04 p0540 N84-13557
High gain free electron laser at ETA
[DE84-002001] 05 p0686 N84-14512
Radially resolved simulation of a high-gain free electron laser amplifier
[DE84-003751] 08 p1165 N84-17585
Review of free electron laser theory and experiments
[DE84-007232] 13 p1996 N84-22954
PROSPERO, J. M.
Optical thickness as related to pollutant episodes and the concentration of visibility degrading pollutants
[NASA-CR-175203] 10 p1531 N84-20028
PROSS, G.
Schlieren diagnostics at SPEED 1 10 p1583 N84-20373
Breakdown phenomena in SPEED 1 10 p1583 N84-20374
PROTASOV, V. D.
Deformability and bearing strength of shells made on release mandrel 23 p3707 N84-33498
PROTHEROE, R. J.
Cosmic ray antimatter and baryon symmetric cosmology
[NASA-TM-83958] 04 p0622 N84-14103
PROTOPOPESCU, S. D.
Status of P714 - LAPDOG
[DE83-013613] 01 p0164 N84-11079

Monte Carlo simulation of high p/sub P jets
06 p0911 N84-15915
Detecting heavy quark jets 06 p0914 N84-15939
PROTSENKO, P.
Improved air shipment of fruit reported this year
01 p0001 N84-10005
PROULX, P.
Plasma-particle interaction effects in induction plasma modelling under dense loading conditions
[DE84-013388] 22 p3660 N84-33203
PROUTY, C. R.
Get away special experimenter's symposium
[NASA-CP-2324] 18 p2799 N84-27758
PROVANCE, J.
Particle size effects on viscosity of silver pastes: A manufacturer's view 12 p1839 N84-21992
PROVENCHER, C. E.
Rural land mobile radio market assessment and satellite and terrestrial system concepts
[NASA-TM-83591] 10 p1476 N84-19641
PROVINES, W. F.
Yellow ophthalmic filters in the visual acquisition of aircraft
[AD-A138536] 13 p2020 N84-23097
PROVIRNINA, E. V.
Investigation of the influence of the zeta-potential on the filtration rate in the presence of collectors
[NASA-TM-77447] 19 p2987 N84-28927
PROVOOST, G. A.
Resonance in the water circuit of a cooling tower
[S/T-REPT-VOL-1-NO-2] 20 p3188 N84-30254
PROVOST, C. E.
A variational method for estimating the general circulation in the ocean 04 p0550 N84-13626
PROY, G.
Desulfurization of hot reducing gas by means of metal oxides in a fixed bed reactor
[BMFT-FB-T-84-015] 16 p2463 N84-25783
PROYANENKOV, V. V.
Structural features of polycrystalline ZnSe and solid solutions ZnSa sub I-x S sub x 12 p1788 N84-21659
PROZAN, R. J.
The SRB nozzle erosion related flow analysis
[NASA-CR-170961] 07 p0965 N84-16251
Microcomputer numerical analysis system for gas dynamics application
[NASA-CR-171005] 13 p1988 N84-22908
PROZOROV, V. M.
Mechanical properties of components made from powders received by processing low-grade porous titanium 23 p3707 N84-33500
PRUCHA, S.
Evaluation of LANDSAT-D Thematic Mapper performance as applied to hydrocarbon exploration
[E84-10154] 19 p3038 N84-29275
PRUESS, K.
A summary of modeling studies of the Krafla Geothermal Field, Iceland
[DE84-000939] 05 p0697 N84-14578
Analysis of production data from the Krafla geothermal field, Iceland
[DE84-006881] 13 p2006 N84-23014
PRUETT, E. C.
Space telescope
[NASA-CR-170946] 06 p0938 N84-16097
PRUGH, B. J.
Water resources data for Virginia, water year 1982
[PB84-118553] 09 p1340 N84-18751
PRUITT, C.
Software clock-divider
[DE84-001266] 07 p1053 N84-16817
PRUITT, G.
Assessment of the NASA Flight Assurance Review Program
[NASA-CR-173418] 13 p2066 N84-23401
PRUMBAUM, R.
Method and apparatus for the rapid determination of gases, oxygen in particular, and of the combined forms in which they are present in metals
[BLL-OA-TRANS-3127-(6196.3)]
08 p1129 N84-17340
PRUNEDA, C. O.
Hydrolytic degradation of Kevlar 49 fibers
[DE84-004158] 13 p1954 N84-22705
Modes of deformation and failure of Kevlar 49 fibers and composites
[DE84-004162] 13 p1954 N84-22706
PRUSSKIY, A. A.
Effect of redistribution of blood on severity of spatial position illusions in weightlessness
02 p0260 N84-11701
PRUTKIN, I. L.
Interpreting three-dimensional gravitational and magnetic anomalies 20 p3224 N84-30486
PRUZAN, P.
Equation of state of fluid NH-3 from P-V-T and ultrasound measurements to 12 kbar
[DE83-015913] 08 p1125 N84-17316
PRYDE, E. H.
Vegetable Oil as Diesel Fuel: Seminar 3
[PB84-151323] 14 p2133 N84-23782
PRYOR, S. P.
Air Weather Service model output statistics systems
[AD-A139129] 14 p2179 N84-24053
PRZEDZIECKI, S.
Uniform asymptotic solution of the problem of diffraction for a linear quadrupole source
[ISSN-0208-5658] 23 p3729 N84-33631
Wiener-Hopf technique for the equation U(alpha) = K(alpha) L(alpha) + D(alpha) in the case of function K(alpha) with zeroes
[ISSN-0208-5658] 23 p3729 N84-33632
PRZEKWAS, A. J.
Rocket injector anomalies study. Volume 1: Description of the mathematical model and solution procedure
[NASA-CR-174702] 22 p3543 N84-32428
Rocket injector anomalies study. Volume 2: Results of parametric studies
[NASA-CR-174703] 22 p3543 N84-32429
PRZEZDZIECKI, S.
Representation of TEM feidls in gyrotropic media by scalar Hertz potentials
[ISSN-0208-5658] 19 p3003 N84-29034
PRZYBYTKOWSKI, S. M.
Effects of wall interference on unsteady transonic flows 06 p0779 N84-15105
PSALTIS, D.
Acousto-optic/CCD real-time SAR data processor
07 p0989 N84-16410
Acousto-optic processing of 2-d signals using temporal and spatial integration
[AD-A136086] 09 p1390 N84-19078
Real-time synthetic aperture radar processing
12 p1906 N84-22416
PSARUDAKIS, P.
Aerodynamic computation method of airfoil cascades subjected to viscous flow 07 p0956 N84-16198
PSHENICHNAYA, O. V.
Nitration of intermetallide TiAl3
12 p1785 N84-21646
PTICHNIKOV, M. M.
How to check line channel of IKM-15 digital pulse-code-modulation transmission system
17 p2633 N84-26842
PU, S.
Long SeaSoar CTD sections in the northeast Atlantic Ocean collected during RRS Discovery Cruise 116
[IOS-148] 02 p0258 N84-11692
PU, S. L.
A functional stress intensity approach to multiply cracked, partially autofrettaged cylinders
[AD-A135345] 08 p1170 N84-17625
PUCCI, F.
A digital ferrite phase-shifter for high power S-band operation 06 p0906 N84-15886
PUCHER, M.
Secondary power systems for fighter aircraft experiences today and requirements for a next generation 03 p0334 N84-12171
PUCHKOVSKAYA, G. A.
Manifestation of the Fermi resonance in surface polariton spectra
[NASA-TM-77386] 14 p2222 N84-24330
PUCILLO, M.
The PDS-VAX intelligent plate scanning system of Trieste Astronomical Observatory
18 p2841 N84-28035
PUCKETT, J. A.
Compound strip methods for the analysis of continuous elastic plates 21 p3417 N84-31670
PUDICK, S.
Develop and test fuel cell powered on-site integrated total energy systems
[NASA-CR-174714] 17 p2723 N84-27329
PUDLINER, B. K.
Audio signal management techniques
[AD-A130391] 01 p0062 N84-10410
PUDOV, E. A.
Integrated evaluation of the quality of steel cable wire
[BLL-M-35267-(5828.4)] 06 p0854 N84-15584
PUECH, M.
Contribution of standard X-ray to cardiovascular exploration during the clinical examination of flying personnel 11 p1700 N84-21088
PUELL, H.
Design and operation mode of Nd:YAP lasers in Modular Transportable Laser Ranging System (MTLRS)
19 p3040 N84-29290
PUESTER, N. H.
Bipolar nickel-hydrogen batteries for aerospace applications 23 p3739 N84-33701
PUFFERT-MEISSNER, W.
Wind tunnel investigations on thin supercritical airfoils in the high subsonic flow regime
[ESA-TT-774] 16 p2440 N84-25652
PUGA, L. C.
The NOAA-ERL-ARL solar UV radiation and climate research project program description
[PB84-183292] 20 p3319 N84-31070
PUGET, J.
Experimental investigation of the effect of electrets on bone healing 23 p3809 N84-34150
PUGH, A. C.
Algebraic and dynamic characterizations of poles and zeroes at infinity
[MATHS-RES-175] 19 p3091 N84-29626
PUGH, E.
Signal detection for same-shape families of non-homogeneous Poisson processes
[AD-A135032] 08 p1217 N84-17942
PUGH, K. S.
Stimulated Cerenkov radiation beam monitor
[AD-A132817] 05 p0744 N84-14889
PUGH, P. F.
Energy conservative cable system demonstration project
[DE84-008982] 20 p3179 N84-30195
PUGLIESE, A.
Testing the six quark sheme
[PREPRINT-402] 23 p3823 N84-34247
PUGLISI, M.
Design fabrication and testing of the BNL radio frequency quadrupole accelerator
[DE84-011915] 21 p3494 N84-32145
PUGLISI, V. J.
Bipolar nickel-hydrogen batteries for aerospace applications 23 p3739 N84-33701
PUGMIRE, R. J.
Carbon-13 and proton nuclear magnetic resonance analysis of shale-derived refinery products and jet fuels and of experimental referee broadened-specification jet fuels
[NASA-CR-174761] 22 p3561 N84-32552
PUGSLEY, J. H.
Some device count comparisons for reduced control stores using MOS (Metal-Oxide Semiconductor) circuits
[AD-P002361] 14 p2193 N84-24152
Mx, A mix-valued algebra
[AD-P002371] 14 p2195 N84-24162
PUIGH, R. J.
Design and use of nonstandard tensile specimens for irradiated materials testing
[DE84-001468] 06 p0806 N84-15254
In-reactor creep behavior of selected ferritic alloys
[DE83-017005] 07 p0976 N84-16322
Thermal creep and stress-affected precipitation of 20% cold-worked 316 stainless steel
[DE84-004933] 10 p1461 N84-19539
PUJALET, R.
The Role of Eddies in the General Ocean Circulation: Proceedings of Aha Huliko's Hawaiian Winter Workshop
[AD-A137212] 11 p1689 N84-21014
PUJOL, A., JR.
The development of a digital processing system for accurate range determinations 06 p0930 N84-16046
PUKACH, L. P.
Assessment of the functional state of the heart muscle in aircrew members by means by bicycle ergometry
08 p1199 N84-17815
PULAKOS, E. D.
Operationalizing halo: Problems with the computation of a standard deviation across dimensions within rates
[AD-A138393] 12 p1867 N84-22164
PULAT, B. M.
Computer aided techniques for crew station design, work-space Organizer-WORG, workstation layout Generator-WOLAG
[AD-A132981] 05 p0716 N84-14693
PULATOV, P. A.
Economical difference methods for solving direct problems in gravimetric and magnetic prospecting
17 p2702 N84-27209
PULFORD, C. T. R.
Micromechanics of fracture in elastomers
[AD-A138783] 13 p1964 N84-22758
PULINETS, S. A.
On the stimulated precipitation of electrons and the mechanism of wave generation in the whistler range in the ARAKS experiment 05 p0637 N84-14190
PULITINA, P.
Model mission study for laser synchronization of clocks
[SNIAS-221-CA/LP] 08 p1162 N84-17569

PULLE, D. W. J.
Prediction and analysis of variable reluctance stepmotor drive systems
[NLR-TR-81139-U] 20 p3182 N84-30216
PULLEYBLANK, W.
The travelling salesman problem in graphs with 3-edge cutsets
[AD-A133504] 06 p0902 N84-15852
PULLIAM, T.
Comparison of the full potential and Euler formulations for computing transonic airfoil flows
[NASA-TM-85983] 21 p3324 N84-31094
PUMMER, H.
Studies of collisional and nonlinear radiative processes for development of coherent UV and XUV sources
[AD-A131837] 03 p0379 N84-12467
Search for extended-lifetime optically excited laser media
[DE84-009795] 18 p2847 N84-26076
PUNDERSON, J. O.
A new engineering approach for cable in fire situations using halogenated polymers 11 p1726 N84-21259
PUNDIR, R. S.
Elastic scattering of positrons with hydrogen and lithium atoms at intermediate energies
[DE84-701187] 24 p3962 N84-35092
PUNWANI, K. G.
A versatile structure for GAS payloads
18 p2801 N84-27775
PURCELL, D. D.
Operator alertness/workload assessment using stochastic model-based analysis of myoelectric signals
[AD-A144535] 24 p3937 N84-34921
PURCELL, J.
Superconducting magnets for gyrotron tubes
[DE83-012815] 02 p0299 N84-11962
Comparative evaluation of existing concepts for a 10-tesla FED toroidal field coil
[DE83-012817] 03 p0429 N84-12815
Determination of thermal-degradation rates of some candidate Rankine-cycle organic working fluids for conversion of industrial waste heat into power
[DE84-009585] 20 p3197 N84-30304
PURDOM, J. F. W.
Multi-scale analyses of meteorological conditions affecting Pan American World Airways flight 759
[PB83-222562] 01 p0006 N84-10040
Genesis and development of deep convective storms
[PB83-252452] 05 p0710 N84-14653
Investigation of arc cloud lines
24 p3931 N84-34885
PURDY, D.
Structures and mechanisms 09 p1269 N84-18286
PURER, A.
Design guidelines for carbon dioxide scrubbers
[AD-A130459] 01 p0117 N84-10761
PURI, R. R.
Optical extinction theorem theory of optical multi-stability bifurcations and turbulence in the Fabry-Perot interferometer 14 p2239 N84-24442
Optical bistability from the Dicke model
14 p2239 N84-24443
PURMONEN, V. T.
On quasi-parabolic problems with normal boundary conditions 04 p0576 N84-13797
PUROHIT, S. C.
Numerical simulation of flow around a three-dimensional turret
[AD-A128686] 01 p0078 N84-10507
Effect of suction on the wake structure of a three-dimensional turret
[AD-A135897] 09 p1252 N84-18174
PURSCH, A.
High resolution GLAS on the MCIDAS
12 p1852 N84-22062
PURSCH, W. C.
Nailing down the liability issue once and for all
[AD-P002777] 13 p2054 N84-23324
PURSER, F. O.
Practical aspects of tuning a ringed RFQ
[DE84-011366] 20 p3175 N84-30163
Operational parameters of a 2.0-MeV RFQ linac
[DE84-011368] 21 p3387 N84-31498
PURSLOW, D.
Fractographic analysis of failures in CFRP
01 p0033 N84-10204
On the optical assessment of the void content in composite materials
[RAE-TM-MAT/STR-1024] 12 p1789 N84-21664
PURTELL, L. P.
A high-speed data acquisition system for fluid mechanics measurements
[PB84-134592] 10 p1496 N84-19781
PURVES, L.
Statistical correlation of structural mode shapes from test measurements and NASTRAN analytical values
[NASA-TM-86044] 16 p2501 N84-28054
PURVIANCE, J. E.
Instrument failure detection in nonlinear systems
[DE84-005306] 11 p1661 N84-20838
PURVIS, C. K.
The role of potential barrier formation in spacecraft charging 08 p1118 N84-17269
Solar array: Plasma interactions
19 p3048 N84-29343
Design guidelines for assessing and controlling spacecraft charging effects
[NASA-TP-2361] 23 p3700 N84-33452
PURVIS, J. W.
Improved prediction of parachute line sail during lines-first deployment
[DE84-007340] 15 p2258 N84-24563
PURVIS, W. J.
Investigation of thermal coking rates of Air Force jet fuels
[AD-A144421] 24 p3890 N84-34631
PUSEY, H. C.
Technical information support for survivability
10 p1508 N84-19868
PUSHCHAROVSKIY, Y. M.
Tectonic and magmatic rock of central Pacific Ocean
18 p2858 N84-28150
PUSHKAR, A.
Tsunami warning system discussed at seismologists' meeting 18 p2859 N84-28154
PUSHKAR, Y. A.
Magnetohydrodynamic flow past nonconducting wedge 17 p2647 N84-26931
PUSTAY, E. A.
Water resources data for New Jersey, water year 1982. Volume 1: Atlantic Slope Basins, Hudson River to Cape May
[PB84-119726] 09 p1338 N84-18736
Water resources data for New Jersey, water year 1982. Volume 2: Delaware River Basin and tributaries to Delaware Bay
[PB84-119734] 09 p1338 N84-18737
PUSTER, R. L.
Proposed fast-response oxygen monitoring and control system for the Langley 8-foot high-temperature tunnel
[NASA-TP-2218] 02 p0223 N84-11460
New technique for calibrating hydrocarbon gas flowmeters
[NASA-TM-85792] 16 p2495 N84-26007
A system for controlling the oxygen content of a gas produced by combustion
[NASA-CASE-LAR-13257-1] 22 p3546 N84-32447
PUSTINGER, J. V.
Passive sampling device for ambient air and personal monitoring
[PB84-210046] 22 p3599 N84-32798
PUTINTSEVA, R. G.
The cathode material for a plasma-arc heater
[BLL-OA-TRANS-3126-(6196.3)]
08 p1232 N84-18053
PUTNAM, L. E.
Internal pressure distributions for a two-dimensional thrust-reversing nozzle operating at a free-stream Mach number of zero
[NASA-TM-85655] 04 p0480 N84-13161
PUTNAM, T. W.
X-29 flight-research program
[NASA-TM-86025] 07 p0951 N84-16168
PUTNEY, B. H.
Geodyn systems development
20 p3221 N84-30467
PUZANKOV, D. V.
High-performance specialized processors for calculation of elementary and special functions
24 p3941 N84-34950
PUZANOV, S. L.
Source of optical pumping for high-resolution spectroscopy with semiconductor laser
21 p3482 N84-32070
PUZEY, N. J.
Detection of horizontal bars as a function of length, separation, eccentricity and frequency of temporal modulation: Possible applications to helicopter acquisition
[BAE-BT-11288] 13 p2021 N84-23105
PWA, T. H.
The interstellar media in the Scorpius-Ophiuchus region 24 p3973 N84-35161
Interstellar and nebular absorption lines in planetary nebulae 24 p3973 N84-35162
Hot central stars in planetary nebulae
24 p3977 N84-35193
PYLE, L. D.
A Kosloff/Basal method, 3D migration program implemented on the CYBER 205 supercomputer
10 p1562 N84-20232
PYLEV, I. V.
methodological problems in evaluating and predicting water-ice resources in mountainous areas
18 p2856 N84-28135
PYNE, C. R.
Recent developments in the measurement of time-dependent pressures 14 p2100 N84-23601
PYPER, J. W.
Bound and free moisture in explosives and plastics
[DE84-001402] 04 p0509 N84-13339
Analysis of moisture in solids: A review of the last decade or from Pande to the present
[DE84-011166] 21 p3362 N84-31326
PYRROS, N. P.
Standard X-ray diffraction power patterns: Section 20 - data for 71 substances
[PB84-155191] 14 p2244 N84-24475

Q

QADER, S. A.
Fluidized bed gasification of biomass to methane
[NASA-CASE-NPO-15903-1] 03 p0403 N84-12635
Solar-heated oil shale retort
[NASA-CASE-NPO-16392-1] 22 p3616 N84-32912
QADRI, S. B.
Structural studies at elevated pressure and reduced temperatures using synchrotron radiation: Application to Ce.8La.1Th.1
[DE84-001793] 06 p0924 N84-16007
QI-LU, Y.
Optical cable-electrical cable hybrid transmission system. The videophone: The optical cable transmission part
[AD-A131012] 02 p0294 N84-11924
QIAN, D. G.
Scientology and management of science and technology
[AD-A139084] 14 p2246 N84-24487
QIAN, G.
Properties of aerosols during a dust storm over the Beijing area
[AD-A136521] 09 p1344 N84-18783
QIANG, Z.
Estimation of planetary albedo and emission over the Tibetan plateau from AVHRR data
10 p1536 N84-20063
QIN, X.
Baroclinic inertial instability in the non-static equilibrium atmosphere
[BLL-TRANS-1568-(9022.552)]
08 p1189 N84-17751
QINGYING, J.
Acta armamentarii (selected articles)
[AD-A143904] 23 p3726 N84-33610
QU, S.
Properties of aerosols during a dust storm over the Beijing area
[AD-A136521] 09 p1344 N84-18783
QUAGLIANA, M.
Motivating managers: A guide to performance targeting and performance-based pay in state and local governments
[PB83-237834] 02 p0301 N84-11978
QUAIL, P. H.
Phytochrome from green plants: Assay, purification, and characterization
[DE83-017447] 03 p0414 N84-12710
QUAN, B.
Microcomputer network for Computerized Adaptive Testing (CAT)
[AD-A140256] 16 p2546 N84-26341
Microcomputer network for Computerized Adaptive Testing (CAT): Program listing. Supplement
[AD-A141569] 19 p3077 N84-29521
QUAN, X.
Buckling of optical fibers within elastomers used in an embedded-core cable structure
11 p1722 N84-21233
QUATE, C. F.
Acoustic microscopy at cryogenic temperatures
[AD-A135089] 08 p1141 N84-17421
Photoacoustic imaging
[AD-A139298] 14 p2224 N84-24350
QUATTROCHI, D. A.
An initial analysis of LANDSAT 4 Thematic Mapper data for the classification of agricultural, forested wetland, and urban land covers
[E84-10073] 07 p1020 N84-16620

An initial analysis of LANDSAT-4 Thematic Mapper data for the discrimination of agricultural, forested wetland, and urban land covers 20 p3213 N84-30414
QUAYLE, R. G.
Wind and wave summaries for selected U.S. Coast Guard operating areas
[AD-A130647] 01 p0108 N84-10702
QUEEN, F. D.
UHF (Ultra-High Frequency) propagation measurements
[AD-A137637] 11 p1643 N84-20741
QUEGAN, S.
Measurement of geometric distortion in airborne SAR images 23 p3778 N84-33951
QUEMARD, C.
The 310 airbus test in the ONERA wind tunnel: Flight-wind tunnel comparison 14 p2098 N84-23587
Airbus A-310. Tests in the ONERA's F1 wind tunnel: Comparison of flight/wind tunnel
[SNIAS-832-111-110] 15 p2257 N84-24556
QUENBY, J.
The ISPM energetic panel particle composition experiment 09 p1261 N84-18233
QUENTIN, G.
Detection of closed internal fatigue cracks
[DE83-017686] 04 p0549 N84-13620
QUENZEL, H.
Fundamental approaches for determining the radiation budget (and corresponding activities at Meteorologisches Institut, Munich (MIM) and Institut fuer Physik der Atmosphaere (IPA)) 10 p1535 N84-20053
Quantities of interest to climatology and atmospheric physics, volume 2 16 p2529 N84-26239
QUERRY, M. R.
Optical properties of natural minerals and other materials in the 350-50000 cM-1 spectral region
[AD-A133530] 06 p0918 N84-15965
QUEST, K. B.
Investigation of laminar shocks
[DE84-010074] 20 p3242 N84-30582
QUESTED, P. N.
Trace elements in superalloys and the implications for recycling 23 p3705 N84-33484
QUEZON, A. J.
Finite element analysis of fluid-filled elastic piping systems 06 p0859 N84-15600
QUIAN, B.
Optimization of space structures
14 p2245 N84-24480
QUICK, C. R., JR.
Coherent Anti-Stokes Raman Scattering (CARS) detection or hot atom reaction product internal energy distributions
[DE83-012684] 01 p0142 N84-10936
QUICK, R. M.
Methods for describing the coexistence of competing degrees of freedom in a many body system
[CSIR-TWISK-296] 11 p1712 N84-21159
QUIMBY, D.
Tapered-wiggler free-electron laser oscillator program
[AD-A144053] 23 p3755 N84-33799
QUIMBY, D. C.
Radial plasma measurements and calculations in the center of a 3-meter laser-heated theta pinch
[DE83-015545] 01 p0150 N84-10969
QUINLAN, K. P.
Preparation of high purity Ga(X)In(1-x) by the VPE-hydride method with a gallium-indium alloy source
[AD-A143275] 22 p3663 N84-33218
Process for the epitaxial deposition of III-V compounds utilizing a binary alloy as the metallic source
[AD-D011097] 22 p3664 N84-33229
QUINN, B.
Retraction and lowering of the mirage undercarriage
[AD-A137791] 11 p1606 N84-20518
QUINN, F. H.
Great lakes monthly hydrologic data
[PB84-114545] 09 p1339 N84-18745
QUINN, G. D.
Characterization of ceramic vane materials for 10KW turboalternator
[AD-A132505] 04 p0486 N84-13196
QUINN, J. J.
Melting of electrons on corrugated surfaces: Structural and dynamical properties in liquid and solid phases
[DE84-004023] 09 p1397 N84-19122
QUINN, J. W.
Topical Meeting on Optical Bistability
[AD-A136998] 14 p2231 N84-24381
QUINN, R.
Inertial Upper Stage (IUS) Solid Rocket Motor (SRM) core flow sampling at high altitudes
[AD-A134997] 08 p1121 N84-17288
QUINN, R. D.
Experimental study of uncentralized squeeze film dampers
[NASA-CR-168317] 10 p1516 N84-19927
Thermal response of Space Shuttle wing during reentry heating
[NASA-TM-85907] 18 p2802 N84-27785
QUINN, R. K.
Ampule tests to simulate glass corrosion in ambient temperature lithium batteries, volume 2
[DE84-014330] 22 p3589 N84-32732
QUINN, W. J.
Hardware-in-the-loop simulation techniques used in the development of the Sea Harrier avionic system
06 p0774 N84-15071
QUINT, B. E.
Scientific and technical information transfer: Issues and options
[RAND/N-2131-NSF] 22 p3673 N84-33286
QUINTENZ, J. P.
Ampfion hybrid diodes on hydramite and PBFA-1
[DE83-017824] 03 p0448 N84-12945
Analysis of mechanisms for anode plasma formation in ion diodes
[DE83-017793] 04 p0608 N84-14010
Hybrid ion diode theory and computations
[DE84-000102] 04 p0610 N84-14029
Linear stability of general magnetically insulated electron flow
[DE84-010148] 19 p3018 N84-29138
QUINTIERE, J.
Recent US progress in fire growth modeling
04 p0511 N84-13354
Recent progress at NBS in fire growth modeling
04 p0513 N84-13372
Fire induced flows through room openings - flow coefficients
[PB84-176759] 20 p3151 N84-30011
QUINTO, P. F.
Thrust-induced effects on subsonic longitudinal aerodynamic characteristics of a vectored-engine-over-wing configuration
[NASA-TP-2228] 04 p0481 N84-13163
Investigation of trailing-edge-flap, spanwise-blowing concepts on an advanced fighter configuration
[NASA-TP-2250] 09 p1251 N84-18164
QUIQIN, S.
Effect of transformed beta morphology and other structural features on mechanical properties in Ti-6Al-4V
[AD-A136028] 09 p1283 N84-18382
QUIRK, J. A.
Control of flexible spacecraft by optimal model following 03 p0342 N84-12222
QUIRK, J. F.
Void-free epoxy castings for cryogenic insulators and seals
[DE83-017273] 04 p0529 N84-13479

R

RAAB, F. H.
Polarized-interferometer feasibility study
[NASA-CR-170979] 11 p1656 N84-20805
RAADU, M. A.
Rapid energization of electrons in a critical velocity discharge experiment
[TRITA-EPP-83-02] 02 p0297 N84-11947
Thermal effects on surface ripple charges for waves on a plasma column
[TRITA-EPP-83-03] 02 p0297 N84-11948
RAAEN, S.
Photoemission studies of mixed valent systems
[DE84-010797] 20 p3310 N84-31020
RAASCH, W.
Hydraulic actuators and associated components suited for multiaxis vibration systems 03 p0339 N84-12201
RABE, K.
Semiconductor surface studies
22 p3681 N84-33338
RABIE, R. L.
Three-dimensional computer modeling of a shock-recovery experiment
[DE83-015915] 02 p0220 N84-11441
RABIN, R.
Analysis of lidar, radar and satellite measurements on severe thunderstorms and their environments
24 p3928 N84-34864
RABINOVICH, E. M.
Influence of vibration grinding on the properties of tungsten powders and the quality of sintered pieces
[BLL-M-35373] 08 p1140 N84-17414
Utilizing light focusing by gas discharge medium for stabilization of emission power of He-Ne laser at wavelength of 6401 angstroms
13 p1969 N84-22779
RABINOVICH, O. S.
Conditions of filtration burning of porous condensed systems with multiple passage of reaction wave
21 p3483 N84-32076
RABINOVITCH, B. S.
Study of vibrational energy transfer at a surface by a time-of-flight method
[AD-A131798] 03 p0432 N84-12833
High temperature gas energy transfer
[AD-A131782] 03 p0433 N84-12836
Average vibrational energy transfer during a single collision of excited molecules with heat bath molecules
[AD-A133391] 06 p0915 N84-15949
Vibrational energy transfer at a surface in reacting systems. Decomposition of azomethane
[AD-A137966] 12 p1901 N84-22381
RABINOWITZ, P.
Generalized composite integration rules in the presence of a singularity
[CSIR-TWISK-272] 04 p0587 N84-13876
Rates of convergence of Gaussian quadrature for singular integrands
[CSIR-TWISK-288] 07 p1059 N84-16865
RABINOWITZ, P. H.
A rapid convergence method for a singular perturbation problem
[AD-A132837] 05 p0740 N84-14863
Minimax methods for indefinite functionals
[AD-A137953] 11 p1716 N84-21190
RABINOWITZ, R.
Development and marketing of a prosthetic urinary control valve system
[NASA-CR-170994] 12 p1867 N84-22168
RABITZ, H.
Inversion of spectral lineshapes to yield collisional rate constants
[AD-A142661] 20 p3149 N84-29994
Combustion chemistry of vibrationally excited oxygen
[AD-A143791] 23 p3714 N84-33540
RABU, Y.
Interpretation of combined LANDSAT-Heat Capacity Mapping Mission (HCMM) data for geological analysis. Evaluation of scale effect on interpretation of a multisource image 23 p3769 N84-33894
RACAUD, G.
Thermal control of the SPOT satellite payload telemetry 10 p1447 N84-19456
RACE, H. C.
Technology transfer dichotomies
[AD-A140387] 16 p2567 N84-26472
RACETTE, G. W.
On orbit surfacing of thermal control surfaces
[NASA-CR-171121] 21 p3352 N84-31266
RACHAMADUGU, R. M. V.
Myopic heuristics for the weighted tardiness problem on identical parallel machines
[AD-A134934] 08 p1216 N84-17934
RACHKOVSKY, D. N.
Evaluation of the significance of the data on the 160.01 min oscillations of the Sun treated by the superposed epoch analysis 09 p1408 N84-19203
RACHOCKI, K. D.
Auger and depth profile analysis of synthetic crystals for dispersion of soft X-rays
[DE83-015257] 02 p0293 N84-11918
RADA, J.
Extra losses in the inductor windings of induction heaters and electric machines
[BLL-OA-TRANS-3114-(6196.3)]
09 p1306 N84-18534
RADCHENKO, A. F.
Investigation of asynchronous detector with self-pumping based on Gunn diode
17 p2633 N84-26847
Millimetric wave frequency converter using Gunn-effect diode 22 p3570 N84-32607
RADCLIFF, J. A.
Prototype fiber optic system to remote TRACALS radar
[AD-A132073] 03 p0360 N84-12341
RADEBAUGH, R.
An approach to optimization of low-power Stirling cryocoolers 06 p0818 N84-15334
RADELOFF, C.
Investigations of magnetic wires for sensor applications
[BMFT-FB-T-84-110] 23 p3752 N84-33787
RADERMACHER, R.
Laboratory evaluation of the steady-state and part load performance of absorption type heating and cooling equipment
[PB84-182146] 21 p3376 N84-31426
RADESPIEL, R.
Wind tunnel investigations of glider fuselages with different waistings and wing arrangements
06 p0781 N84-15116

RADEWAN, C. H.
Automated helium gas metering system
[DE84-015083] 23 p3751 N84-33779
RADHAKRISHNAN, K.
Fast algorithms for combustion kinetics calculations: A comparison 11 p1612 N84-20554
A comparison of the efficiency of numerical methods for integrating chemical kinetic rate equations 21 p3355 N84-31280
RADHAKRISHNAN, N.
Accuracy considerations when using some minicomputers for scientific and engineering problems
[AD-A134141] 07 p1061 N84-16878
CASE (Computer-Aided Structural Engineering) study of 6 major general-purpose finite element programs
[AD-A139065] 13 p2001 N84-22986
RADICATI, B.
The Istituto di Ricerca sulle Onde Elettromagnetiche (IROE)-lidar remote sensing of the environment 03 p0396 N84-12590
Laser remote sensing at IROE 24 p3907 N84-34747
RADL, C. J.
Open water and thin ice detection in the Arctic marginal ice zone using reflectometer signal analysis
[AD-A136043] 10 p1543 N84-20110
RADONDY, R.
Composite materials: The user and the producer
[SNIAS-832-111-108] 16 p2461 N84-25772
RADOSEVICH, J. D.
NASA Administrative Data Base Management Systems, 1983
[NASA-CP-2304] 11 p1747 N84-21403
NASA Administrative Data Base Management Systems, 1984
[NASA-CP-2323] 22 p3671 N84-33266
RADOVCICH, N. A.
Preliminary Aeroelastic Design of Structures (PADS) methods development and application 02 p0170 N84-11117
RADYAKIN, N. K.
Logarithmic decrement of oscillations of low-viscosity fluid rotating inside cylindrical vessel 17 p2645 N84-26921
RAE, W. J.
Study of the contained air flow in a radial tire: Experimental
[DE84-000840] 04 p0545 N84-13591
Computer program for evaluating the ives transformation in turbomachinery cascades, revision
[AD-A137064] 10 p1571 N84-20295
RAEFSKY, A.
A critical assessment of viscous models of trench topography and corner flow
[NASA-CR-173648] 17 p2667 N84-27005
RAEISAENEN, A. V.
Application of noise waves and scattering/scattering-transfer matrices for noise analysis of microwave mixers
[REPT-S-137] 09 p1305 N84-18529
Approaching noise performance limits of Schottky-barrier mixers at millimeter waves
[REPT-S-134] 09 p1310 N84-18567
Spectral line receiver for 80-90 GHz designed at the Helsinki University of Technology 09 p1413 N84-19243
Feed system for the Metsaehovi cooled 75-95 GHz receiver
[REPT-S-146] 15 p2328 N84-24978
Cryogenic 75-95 GHz front-end for the Metsaehovi radio telescope
[REPT-S-145] 15 p2424 N84-25564
RAELIN, J. A.
Factors explaining decisions to terminate or continue an R and D project, executive summary
[PB83-256602] 05 p0758 N84-14971
Factors explaining decisions to terminate or continue an R and D project
[PB83-256594] 05 p0758 N84-14972
RAETZER-SCHEIBE, H. J.
Hot corrosion in aircraft engines
[DFVLR-MITT-84-04] 18 p2796 N84-27742
RAEUCHLE, W.
Ceramic components for gas turbines, phase 2
[BMFT-FB-T-83-198] 08 p1105 N84-17183
RAFAILOVICH, M. H.
Temperature dependence of the electric-field gradient in Er metal
[DE83-015564] 03 p0454 N84-12989
RAFFAELLI, G.
Application of multivariate analysis to the parameters of parameters of astrophyiscal objects 09 p1408 N84-19199
Discriminant analysis in astronomy 09 p1411 N84-19223
RAFFENETTI, R. C.
Participation of VAX VMS computers in IBM file-transfer networks
[DE83-017945] 04 p0581 N84-13838
RAFFIN, M.
Investigation of free jets issued from small solid propellant rocket engines 08 p1121 N84-17290
RAFIKOVA, L. G.
Anodic dissolution of transition metal carbides at high current density 24 p3877 N84-34566
RAFINEJAD, D.
Linear Fresnel lens photovoltaic concentrator program
[DE84-002971] 08 p1180 N84-17689
Parabolic Dish Concentrator (PDC-2) development 18 p2871 N84-28227
RAFTER, A.
An isotopic and chemical study of Lake Vanda and Don Juan Pond, Antarctica 14 p2163 N84-23952
RAGAB, A. M.
Special nonlinear optimization techniques
[AD-A141097] 19 p3083 N84-29564
RAGGAM, J.
Evaluation of radargrammetric stereo
[AD-A139565] 14 p2141 N84-23835
Differential rectification of SLR-images using map-derived and radar-generated digital elevation models
[AD-A141828] 19 p3006 N84-29054
RAGHUPATHI, P. S.
Establishment of a Computer-Aided Design (CAD)/Computer-Aided Manufacturing (CAM) process for the production of cold forged gears
[AD-A141018] 18 p2921 N84-28522
RAGLAND, K. W.
Intermediate-range grid model and user's guide for atmospheric sulfur dioxide and sulfate concentrations and depositions: Wisconsin Power Plant Impact Study
[PB84-189257] 20 p3238 N84-30556
RAGO, C. E.
Cryogenic testing of the TPC superconducting solenoid
[DE84-000528] 04 p0527 N84-13467
Forced two-phase cooling of the TPC superconducting solenoid
[DE83-017749] 04 p0613 N84-14049
RAGO, F. M.
Analysis of Sweet Lake geopressured-geothermal aquifer
[DE84-006053] 12 p1836 N84-21972
RAHBEE, A.
Absolute collisional excitation cross section measurements using crossed molecular beams
[AD-A132038] 03 p0432 N84-12830
RAHE, A. J.
Yellow ophthalmic filters in the visual acquisition of aircraft
[AD-A138536] 13 p2020 N84-23097
RAHE, J.
UV and optical spectroscopy of classical novae during outburst 24 p3979 N84-35202
UV and optical observations of the novalike object V3885 SGR 24 p3979 N84-35207
UV and optical spectroscopy of W Serpentis objects 24 p3980 N84-35212
RAHILLY, W. P.
Defect studies in one MeV electron irradiated GaAs and in Al/sub x Ga/sub l-x As P-N junction solar cells 19 p3045 N84-29321
RAHM, A. M.
Assessment of fuel cell propulsion systems
[DE84-006323] 15 p2420 N84-25536
RAHMAN, A.
Elastic moduli of H2O: Liquid, ice 6 and ice 7
[DE83-017960] 05 p0652 N84-14284
Molecular dynamics studies of structural transformation in solids
[DE84-006409] 12 p1916 N84-22481
RAHN, K. A.
Arctic haze: Natural or pollution?
[AD-A134263] 07 p1039 N84-16737
RAI, A.
On the breakdown of acceleration waves in radiative magneto-fluids 15 p2402 N84-25415
RAI, D.
Chemical attenuation rates, coefficients, and constants in leachate migration. Volume 1: A critical review
[DE84-009432] 20 p3238 N84-30557
RAIBERT, M. H.
Dynamically stable legged locomotion
[AD-A136644] 09 p1363 N84-18905
RAINE, G. P.
Determination of energetics and spectra of simple molecular systems using theoretical methods
[DE84-009668] 20 p3296 N84-30930
RAINER, F.
Damage thresholds of thin film materials and high reflectors at 248 nm
[DE83-012663] 03 p0380 N84-12472
Damage thresholds of fused silica, plastics and KDP crystals measured with 0.6-ns 355-nm pulses
[DE84-009534] 18 p2847 N84-28080
Laser damage in porous-silica antireflection films
[DE84-009535] 19 p3030 N84-29216
RAINER, R.
Recent damage results for antireflection coatings at 355 NM
[DE84-011560] 21 p3371 N84-31368
RAINES, G. L.
Application of Heat Capacity Mapping Mission data to regional geologic analysis for mineral and energy resource evaluation
[E84-10078] 07 p1021 N84-16625
RAINZINGER, M.
Actitities report on the projet DESBOD
[REPT-5] 03 p0460 N84-13025
RAIS, A. B.
Potentiostatic investigation of the kinetics of the breakdown of the passivity of aluminium in aqueous medium
[BLL-OA-TRANS-3066-(6196.3)] 06 p0804 N84-15238
RAITALA, J.
Polyphase tectonics of the Oceanus Procellarum area on the Moon 23 p3841 N84-34364
Terra scarps indicating youngest terra faults on the Moon 23 p3841 N84-34365
Planetary tectonics 24 p3990 N84-35247
RAITH, K.
Development of a self-adapted error-controlled difference method to solve the three-dimensional laminar incompressible boundary layer equations by numerically given contours determined by points
[REPT-24/83] 19 p3025 N84-29186
The SLxE program for the solution of nonlinear systems for elliptic differential equations
[REPT-23/83] 24 p3953 N84-35033
RAITHEL, A. L., III
Development of a flight simulation concept and aerodynamic buildup for investigation of departure prevention systems in tactical aircraft
[AD-A136182] 09 p1259 N84-18221
RAITT, W. J.
Electron beam experiments aboard the Space Shuttle 05 p0638 N84-14195
Electrodynamic tether experiments in the ionosphere 05 p0642 N84-14222
A study of plasmaspheric density distributions for diffusive equilibrium conditions
[AD-A132643] 05 p0703 N84-14615
Space Shuttle charging results
[AD-P002104] 16 p2522 N84-26190
RAJ, P. K.
Unconfined vapor cloud explosions: A review of recent theories and experiments 06 p0835 N84-15439
RAJ, R.
Failure by creep cracking and creep fatigue interaction in nickel base superalloys
[AD-A141112] 19 p2993 N84-28967
RAJA, R.
Electrical and magnetic properties of the energy-saver correction elements
[DE83-017327] 04 p0603 N84-13983
RAJAB, M. D.
Modeling of the transmissibility through rolling-element bearings under radial and moment loads 01 p0089 N84-10580
RAJAGOPAL, A. K.
Relaxation in spin glasses: Similarities and differences from ordinary glasses
[DE84-001719] 04 p0508 N84-13330
An entropy maximum principle and instantaneous failure statistics
[AD-A143299] 22 p3607 N84-32851
An entropy maximum principle and relaxation phenomena
[AD-A143531] 22 p3668 N84-33250
RAJAGOPAL, D. R.
Pressure induced radial diffusion of a fluid through a thick walled highly elastic cylinder 15 p2313 N84-24881
RAJAGOPAL, K. R.
Some remarks on the creeping flow of the second grade fluid
[AD-A132806] 05 p0681 N84-14473
On a viscometric flow of a simple fluid
[AD-A132852] 05 p0681 N84-14476
Combined tension-torsion of a cylindrical mixture of an elastic solid and fluid
[AD-A136351] 09 p1331 N84-18689

New exact solutions in non-linear elasticity
[AD-A137928] 11 p1715 N84-21181
Remarks on the flow between two parallel rotating plates
[AD-A141582] 19 p3023 N84-29174
RAJAGOPALAN, R.
Research and research needs in colloidal interactions
[PB84-161231] 14 p2124 N84-23731
RAJALA, S. A.
An evaluation of the directed flow graph methodology
[NASA-CR-173593] 16 p2543 N84-26324
RAJAN, J. B.
Application features and considerations in advanced lead-acid and nickel/iron EV batteries
[DE83-017936] 04 p0528 N84-13472
RAJAN, N.
A formulation and analysis of combat games
[NASA-TM-85927] 13 p1935 N84-22585
RAJAN, R. S.
Lunar sample analysis
[NASA-CR-171772] 11 p1758 N84-21476
RAJENDRAN, A. M.
High strain rate characterization of materials
[AD-A134342] 07 p1016 N84-16593
RAJESWARAN, G.
Effect of silane fraction on the optoelectronic and photovoltaic properties of RF-glow-discharge a-Si:H prepared from SiH4 + H2 mixtures
[DE83-016730] 04 p0615 N84-14058
Low temperature (150 to 250(0)C) deposition of n(+) and p(+) microcrystalline silicon for VLSI device contacts
[DE84-006474] 14 p2243 N84-24470
Nucleation and growth of N- and P-type microcrystals in low-temperature glow-discharge deposited silicon films
[DE84-013122] 22 p3667 N84-33246
RAJSKI, J.
An algebraic method for hazard analysis with the maximum number of spikes in combinational and sequential circuits
[AD-P002369] 14 p2194 N84-24160
RAJU, B. B.
A review study of nondestructive test techniques for residual stresses in aircraft transparencies
[AD-A138930] 13 p1930 N84-22555
RAJU, I. S.
Analysis of interlaminar stresses in thick composite laminates with and without edge delamination
[NASA-TM-85738] 06 p0798 N84-15201
Prediction of fatigue crack-growth patterns and lives in three-dimensional cracked bodies
[NASA-TM-85787] 13 p2000 N84-22979
Stress-intensity factor equations for cracks in three-dimensional finite bodies subjected to tension and bending loads
[NASA-TM-85793] 14 p2157 N84-23925
Three-dimensional finite-element analysis of chevron-notched fracture specimens
[NASA-TM-85798] 19 p3035 N84-29249
Methods for analysis of cracks in three-dimensional solids
[NASA-TM-86266] 20 p3201 N84-30330
Large deflections of circular isotropic membranes subjected to arbitrary axisymmetric loading
[NASA-TM-86271] 21 p3419 N84-31686
RAJU, S. R.
Studies of new media radiation induced laser
[NASA-CR-173846] 21 p3406 N84-31616
RAJURKAR, K. P.
Stochastic modeling of EDM with a view to off-line optimization
[PB84-162296] 17 p2639 N84-26885
RAKEM, Z.
Role of excitation frequency in discharges created by surface waves
[LP-205] 16 p2558 N84-26411
RAKHEJA, S.
An optimum seat-suspension for off-road vehicles
10 p1512 N84-19896
RAKICH, J. V.
Catalytic surface effects on space thermal protection system during Earth entry of flights STS-2 through STS-5
01 p0024 N84-10152
RAKNESS, W. L.
Development and flight evaluation of an augmented stability active controls concept with a small horizontal tail
[NASA-CR-165951] 19 p2967 N84-28805
RAKSHNYA, S. E.
Spatial distribution of advective heat influxes in atmosphere over Northern Hemisphere and its relationship to heat influxes from ocean 20 p3223 N84-30482
RALEIGH, M.
A beam current density monitor for intense electron beams
[AD-A137146] 11 p1660 N84-20832
A transmission line bridge for the diagnostics of plasma channels
[AD-A139286] 14 p2228 N84-24362
Theory of beam channel hydrodynamics
[AD-A139595] 14 p2229 N84-24365
Channel cooling by turbulent convective mixing
[AD-A139724] 15 p2410 N84-25466
REB (Relativistic Electron Beam)/channel tracking experiments in low pressure ammonia
[AD-A140209] 16 p2555 N84-26394
A study of long aerosol initiated laser induced air breakdown plasmas
[AD-A143967] 23 p3828 N84-34279
RALL, F. T., JR.
MIL-PRIME Program System
[AD-P003576] 21 p3338 N84-31181
RALL, L. B.
Interval methods for fixed-point problems
[AD-A136323] 09 p1373 N84-18965
An introduction to the scientific computing language PASCAL-SC (PASCAL for Scientific Computation)
[AD-A139316] 14 p2205 N84-24235
The arithmetic of differentiation
[AD-A142964] 21 p3473 N84-32011
RALSTON, D. R.
Thermal ground water flow systems in the thrust zone in southeastern Idaho
[DE84-011598] 20 p3229 N84-30517
RALSTON, J. N.
Rotary balance data for a typical single-engine general aviation design for an angle-of-attack range of 20 to 90 deg. 3: Influence of control deflection on predicted model D spin modes
[NASA-CR-3248] 16 p2438 N84-25641
RAM-MOHAN, L. R.
Infrared nonlinear optics 22 p3682 N84-33346
RAM, A. K.
Relativistic electromagnetic instabilities near electron cyclotron frequency and harmonics
[DE84-009672] 19 p3107 N84-29745
RAMACHANDRA, S. M.
Acoustic pressures emanating from a turbomachine stage
[NASA-TM-83734] 20 p3183 N84-30224
RAMACHANDRAN, K.
The treatment of convected vortices in compressible potential flow 03 p0324 N84-12121
Organophosphazenes: 17: The synthesis of trimethylsilylacetylene and terminal acetylene derivatives of hexfluorocyclotriphosphazene
[AD-A141429] 19 p2983 N84-28906
RAMACHANDRAN, S.
Optimization of space structures
14 p2245 N84-24480
RAMAKER, D. E.
Photon-stimulated ion desorption from condensed CO and N2
[AD-A133925] 05 p0647 N84-14254
Understanding localized behavior in the Auger spectra of covalent systems such as graphite
[AD-A133924] 05 p0647 N84-14255
Comparison of autoionization and photoelectron spectra of CO
[AD-A133902] 05 p0647 N84-14256
Comparison of photon stimulated dissociation of gas phase, solid and chemisorbed water
[AD-A134986] 08 p1125 N84-17314
RAMAKRISHNA, K.
An intelligent manual for price analysis
[AD-P002798] 13 p2057 N84-23344
Report on the feasibility of designing expert systems for contract price analysis
[AD-A140854] 17 p2770 N84-27590
The design of an expert system for contract price analysis
[AD-A140927] 18 p2943 N84-28662
RAMAKRISHNAN, I. V.
On mapping cube graphs on VLSI array and tree architectures
[AD-A139306] 14 p2205 N84-24234
On mapping homogeneous graphs on a linear array-processor model
[AD-A139912] 15 p2398 N84-25386
Modular matrix multiplication on a linear array
[AD-A139852] 15 p2400 N84-25404
Dynamic programming and transitive closure on linear pipelines
[AD-A143527] 22 p3640 N84-33079
RAMAKRISHNAN, V.
Chemical and physical characterization of the activation of ribulosebiphosphate carboxylase/oxygenase
[DE83-017226] 04 p0571 N84-13764
RAMALINGAM, S.
Sputtering as a technique for applying tribological coatings 15 p2342 N84-25059
RAMAMOORTHY, C. V.
Design methodology for back-end database machines in distributed environments
[AD-A142122] 19 p3072 N84-29491
RAMAN, S.
Implications of heavy-ion-induced satellite X-ray emission. 1: Introduction
[DE83-015682] 03 p0435 N84-12851
Implications of heavy-ion-induced satellite X-ray emission. Part 2: Production of K and L X-rays by 0.9 to 2.6 MeV/u Ar ions in thick targets of V, Cu, Nb, Ta, and Pt
[DE83-015681] 03 p0453 N84-12982
RAMANAMURTHY, V. V.
A unified data flow model for fault tolerant computers
[NASA-CR-173479] 12 p1877 N84-22230
RAMAPRIAN, B. R.
Three-dimensional turbulent boundary layer on a body of revolution at incidence
[AD-A135454] 08 p1158 N84-17539
Turbulence measurements in plane jets and plumes in crossflow
[PB84-105303] 08 p1160 N84-17554
Unsteady turbulent boundary layers
[AD-A137853] 11 p1652 N84-20787
Study of large-scale mixing in developing wakes behind streamlined bodies
[NASA-CR-173478] 12 p1766 N84-21517
Study of unsteady turbulent boundary layers
[AD-A138156] 12 p1816 N84-21837
Measurement of skin friction in unsteady boundary layers using a flush-mounted hot-film gage
[PB84-197995] 22 p3596 N84-32773
RAMARKRISHNA, K.
Expert systems for price analysis: A feasibility study
[AD-P002795] 13 p2057 N84-23341
RAMASWAMY, V.
Solar radiative impacts of graphitic carbon (soot) in aerosols, clouds and snow 02 p0243 N84-11592
RAMATY, R.
Neutrons and gamma rays from solar flares
09 p1406 N84-19187
Nuclear processes in the jets of SS433
[NASA-TM-86109] 16 p2582 N84-26560
RAMBACH, D.
The relations between the numerical control of the engine and other aircraft functions
03 p0315 N84-12062
RAMBALDI, E. R.
Lunar sample analysis
[NASA-CR-171772] 11 p1758 N84-21476
RAMBALDI, S.
Forced stationary solutions in a barotropic channel: Multiple equilibria and theory of nonlinear resonance
12 p1856 N84-22089
RAMEAU, B.
Studies on sodium boiling phenomena in out of pile rod bundles for various accidental situations in Liquid Metal Fast Breeder Reactors (LMFBR) experiments and interpretations 06 p0842 N84-15493
RAMEIKA, R.
Measurement of the energy resolution and related properties of an SCG1-C scintillation glass shower counter array for 1 to 25 GeV positrons
[DE84-007246] 14 p2148 N84-23871
Measurement of electromagnetic shower position and size with a saturated avalanche tube hodoscope and a fine grained scintillation hodoscope
[DE84-007247] 15 p2337 N84-25032
RAMELLA, M.
IUE spectra of three A0 V stars rotating close to their break-up velocity: HD 119921, HD 129685, HD 181296
24 p3975 N84-35172
The nitrogen abundance in WC stars
24 p3977 N84-35192
Standard stars: Automatic line identification of IUE high resolution spectra 24 p3981 N84-35225
RAMEY, D. W.
A modified tritium trick technique for doping vanadium alloys with helium
[DE84-014267] 23 p3720 N84-33581
RAMINS, P.
Performance of computer-designed small-size multistage depressed collectors for a high-perveance traveling wave tube
[NASA-TP-2248] 06 p0829 N84-15394
RAMIREZ, A. L.
Alterant geophysical tomography
[DE84-004794] 11 p1671 N84-20807
RAMIREZ, J. J.
E-beam pulsewidth scaling for a large KrF laser
[DE83-013632] 01 p0087 N84-10571

IBEX: Annular beam propagation experiment
[DE84-000456] 04 p0599 N84-13954
RAMIREZ, R. R.
Evaluation of process systems for effective management of aluminum finishing wastewaters and sludges
[PB84-170661] 16 p2520 N84-26178
RAMOND, P.
Supersymmetry in physics: An algebraic overview
[DE84-007289] 15 p2399 N84-25395
RAMOS, L. A.
Aircraft generation equipment emissions estimator (AGEEE)
[AD-A136829] 10 p1532 N84-20031
RAMPINO, M. R.
Geological rhythms and cometary impacts
[NASA-TM-86116] 21 p3524 N84-32327
RAMRUS, A.
Capacitor hardness demonstration program
[AD-A133045] 05 p0676 N84-14442
RAMSAY, B.
Precipitation and precipitation efficiencies derived from single Doppler radar 18 p2887 N84-28321
RAMSEIER, R. O.
Millimeter wave radiometric images of the marginal ice zone 23 p3772 N84-33912
RAMSEY, H. R.
Software psychology: The need for an interdisciplinary program
[PB84-176718] 17 p2755 N84-27486
RAMSEY, J.
Structural coverage of functional testing 13 p2027 N84-23141
Examining functional acceptance testing with structural coverage metrics 13 p2027 N84-23142
RAMSEY, J. W., JR.
Pressure system recertification at NASA-Langley Research Center
[NASA-TM-85733] 04 p0543 N84-13576
RAMSEY, K. G.
Analysis of directivity as a function of scan angle for planar arrays of radiating slots
[AD-P003503] 21 p3383 N84-31471
Conformal array analysis
[AD-P003504] 21 p3384 N84-31472
RAMULU, M.
Analysis of dynamic mixed-mode crack tip stress patterns
[AD-A143329] 22 p3611 N84-32880
RANALLO, G. P.
Modification to the advanced degree requirements information system
[AD-A138167] 12 p1918 N84-22499
RANAUDO, R. J.
Performance degradation of a typical twin engine commuter type aircraft in measured natural icing conditions
[NASA-TM-83564] 04 p0483 N84-13173
RANCARANI, G.
The F2 wind tunnel at Fauga-Mauzac
[NASA-TM-77482] 19 p2969 N84-28814
RANCE, N.
Sex steroids do not affect muscle weight, oxidative metabolism or cytosolic androgen reception binding of functionally overloaded rat Plantaris muscles
[NASA-CR-173630] 17 p2739 N84-27394
RAND, J. L.
Thin film strain transducer
[US-PATENT-APPL-SN-526770] 03 p0376 N84-12448
Thin film strain transducer
[NASA-CASE-WLP-10055-1] 18 p2838 N84-28015
RAND, P. B.
High temperature adhesive silicone foam composition, foam generating system and method of generating foam
[DE84-014315] 23 p3725 N84-33605
RAND, R. S.
Cartographic feature extraction on ETL's (Engineer Topographic Laboratories') DIAL (Digital Image Analysis Laboratory) system
[AD-A140230] 16 p2511 N84-26112
RAND, S. C.
Investigation of optical fibers for nonlinear optics
[AD-A130656] 01 p0147 N84-10965
Investigation of optical fibers for nonlinear optics
[AD-A143565] 22 p3657 N84-33185
RANDA, S. K.
Equipment and design changes in extrusion of foamed fluoropolymer resins 11 p1721 N84-21229
RANDALL, D. A.
Postprocessing for the UCLA climate model 12 p1854 N84-22079
Prospects for improvement of zonal mean temperatures in the UCLA general circulation model 12 p1856 N84-22088
Stratocumulus simulations with a general circulation model 12 p1856 N84-22090
Development and preliminary tests of a new long-wave radiation parameterization 12 p1857 N84-22097
Simulations of the stratocumulus-topped boundary layer with a third-order closure model 12 p1857 N84-22098
Problems with the process partitioning theory of stratocumulus entrainment 12 p1857 N84-22099
Can cloud-top entrainment promote cloud growth? 12 p1857 N84-22100
On the bimodality of temperature and moisture near stratocumulus cloud tops 12 p1858 N84-22101
The sensitivity of a general circulation model to Saharan dust heating 12 p1858 N84-22108
Interaction of the ABL with stratocumulus and cumulus cloud layers, appendix N 18 p2885 N84-28309
RANDALL, D. C.
Response of the cardiovascular system to vibration and combined stresses
[AD-A142166] 19 p3066 N84-29450
RANDALL, D. P.
The Solid Model Geometry Generator (SMGG) 12 p1872 N84-22199
Computer generated animation and movie production at LARC: A case study
[NASA-CR-172375] 18 p2917 N84-28494
Current and future graphics requirements for LaRC and proposed future graphics system
[NASA-TM-85726] 18 p2917 N84-28495
RANDALL, P. M. S.
More optimal searches
[AD-A136934] 10 p1436 N84-19387
Angles-only, ground-based, initial orbit determination
[AD-A142994] 21 p3348 N84-31241
RANDLE, R. J., JR.
Visual accommodation trainer-tester
[NASA-CASE-ARC-11426-1] 03 p0338 N84-12193
RANDOLPH, M.
Reflectance modeling 12 p1830 N84-21931
RANDOLPH, R. A.
Mission operations impact of specific shuttle vehicle improvements
[AD-P002152] 14 p2138 N84-23817
RANDRUP, J.
Statistical calculation of complete events in medium-energy nuclear collisions
[DE83-015951] 03 p0434 N84-12847
RANELLETTI, J. E.
Supercomputers: The next ten years. A user's view
[DE84-011072] 20 p3267 N84-30727
RANELLI, P. H.
Response of an atmospheric prediction model to time-dependent sea-surface temperatures
[AD-A140730] 17 p2734 N84-27377
RANEY, R. K.
Theory and measure of certain image norms in SAR 17 p2713 N84-27274
Conceptual design of satellite SAR 23 p3782 N84-33985
RANGANATH, S.
Two dimensional linear prediction models. Part 1. Spectral factorization and realization
[AD-A130954] 02 p0280 N84-11833
RANGNITT, D.
Control aspects as elaborated in space rendezvous simulations 15 p2268 N84-24616
RANGO, A.
Global hydrologic cycle 20 p3217 N84-30434
RANJAN, R.
Life prediction under stress corrosion conditions below K sub ISCC
[DE83-018074] 03 p0355 N84-12307
Crack initiation model for stress corrosion cracking alpha-brass
[DE84-012837] 21 p3423 N84-31712
RANK, D. M.
Astronomical application of IR CID technology
[NASA-CR-166584] 18 p2844 N84-28057
RANKEN, W. A.
Neutronic and thermal design considerations for heat-pipe reactors
[DE83-012690] 01 p0145 N84-10954
RANKERS, H.
Displacement angle relation for the cross crank mechanism: An exact kinematic measure synthesis
[WTHD-155] 12 p1823 N84-21886
RANKIN, D. W.
Random numbers from small calculators
[AD-P003850] 24 p3940 N84-34937
RANKIN, M.
Interferometrically tuned laser resonator
[AD-D011125] 22 p3600 N84-32800
RANLET, D.
Submerged shock response of a linearly elastic shell of revolution containing internal structure. User's manual for the ELSHOK code
[AD-A131282] 03 p0389 N84-12534
RANSOM, E. C. P.
Introduction and review of some jet interference phenomena relevant to V/STOL aircraft 16 p2436 N84-25626
RANVAUD, R.
The initial orientation of homing pigeons on the magnetic equator, with and without Sun compass
[INPE-3104-PRE/503] 16 p2534 N84-26271
RAO, A. R.
Empirical analysis of meandering and flow characteristics in laboratory and natural channels
[DE84-003461] 08 p1179 N84-17679
RAO, B. C.
Size scale effect in cavitation erosion
[NASA-TM-83533] 02 p0193 N84-11254
RAO, B. C. S.
Characterization of erosion of metallic materials under cavitation attack in a mineral oil
[NASA-TP-2368] 22 p3603 N84-32825
RAO, C. V. H. N.
Defects in high speed growth of EFG silicon ribbon 18 p2939 N84-28642
RAO, D. B.
Report of the NASA workshop on tidal research
[NASA-CR-173204] 07 p1040 N84-16744
RAO, D. K.
Torosional vibration of crankshafts in reciprocating machines 12 p1822 N84-21876
RAO, D. M.
Vortical flow management for improved configuration aerodynamics: Recent experiences 03 p0326 N84-12129
RAO, J. N. K.
Bootstrap inference with stratified samples
[AD-A139313] 14 p2218 N84-24312
RAO, J. S.
Turbomachine blade vibration 10 p1505 N84-19839
Analytical and experimental investigation of rotating blade response due to nozzle passing frequency excitation 10 p1515 N84-19917
RAO, K. R.
Observations of galactic center for annihilation line at 0.511 MeV
[INPE-2907-PRE/421] 02 p0305 N84-12000
A rapid estimation of near earth satellite lifetimes with quasi-dynamic atmospheric model with application to a proposed Brazilian satellite 19 p3119 N84-29823
RAO, K. S.
Phase error effects on the radiation patterns of space-fed planar phased arrays
[AD-P003505] 21 p3384 N84-31473
RAO, P. P. N.
An approach for agricultural drought monitoring using NOAA/AVHRR and LANDSAT imagery 23 p3769 N84-33893
RAO, P. V.
Size scale effect in cavitation erosion
[NASA-TM-83533] 02 p0193 N84-11254
Empirical relations for cavitation and liquid impingement erosion processes
[NASA-TP-2339] 21 p3365 N84-31349
RAO, S. K.
Pipelined orthogonal digital lattice filters
[AD-A143902] 23 p3818 N84-34208
RAO, S. T.
Turbulent diffusion behind vehicles: Experiments and verification of roadway models
[PB84-194273] 21 p3326 N84-31101
RAO, T. R.
A unified data flow model for fault tolerant computers
[NASA-CR-173479] 12 p1877 N84-22230
RAO, V. B.
Monthly variation of 200 MB flow in the tropics
[INPE-2953-PRE/435] 07 p1032 N84-16695
On the 1983 drought in Northeast Brazil
[INPE-3110-PRE/509] 16 p2528 N84-26229
On the zonally averaged temperature in the Southern Hemisphere
[INPE-3139-PRE/528] 21 p3443 N84-31846
Teleconnections and sea surface temperature anomaly effects on the drought of 1983 in northeast Brazil
[INPE-3214-PRE/567] 21 p3446 N84-31867
Interannual variations of rainfall in northeast Brazil and their connections with the large-scale features
[INPE-3207-PRE/565] 21 p3447 N84-31868
RAO, V. P.
Solid impingement erosion mechanisms and characterization of erosion resistance of ductile metals
[NASA-TM-83492] 03 p0352 N84-12287
RAO, V. R.
An approach for agricultural drought monitoring using NOAA/AVHRR and LANDSAT imagery 23 p3769 N84-33893

RAO, Y. V.
Trapped-proton energy spectrum determination (M0002-1) 15 p2276 N84-24663
RAPHANEL, J. L.
Plastic deformations of a portable frame under short pulse loading on one column by an approximate method including effects of elasticity and plastic rate sensitivity 03 p0387 N84-12521
RAPHEL, C.
Variations in states of alertness during continuous operations at the control post level 11 p1697 N84-21068
Psycho-ergonomic problems presented by the prolonged wearing of gas masks 11 p1698 N84-21073
RAPIN, J. M.
Study of annoyance due to urban automobile traffic. Annex 5: Sociological study [NASA-TM-77515] 24 p3968 N84-35124
RAPLEY, C. G.
A study of satellite radar altimeter operation over ice-covered surfaces [ESA-CR(P)-1810] 08 p1179 N84-17683
Observations of sea ice and icebergs from satellite radar altimeters 17 p2720 N84-27311
RAPP, R. A.
Effect of UV illumination on the sublimation of basal surfaces of zinc oxide [AD-A133383] 06 p0801 N84-15222
RAPPAPORT, A. T.
Symbolic knowledge processing for the acquisition of expert behavior: A study in medicine [AD-A141835] 19 p3068 N84-29460
RAPPE, A. K.
Fundamental organometallic reactions: Applications on the CYBER 205 10 p1560 N84-20221
RAPTIS, A. C.
Viscous effect on acoustic scattering by elastic solid cylinders and spheres [DE83-014271] 01 p0140 N84-10920
Active ultrasonic cross-correlation flowmeters for mixed-phase pipe flows [DE84-006449] 20 p3189 N84-30260
RAQUET, C. A.
Characteristics and capacities of the NASA Lewis Research Center high precision 6.7- by 6.7-m planar near-field scanner [NASA-TM-83785] 22 p3598 N84-32789
RARBACK, H.
X-ray holographic microscopy experiments at the Brookhaven synchrotron light source [DE84-004289] 10 p1499 N84-19796
RASCH, K. D.
Development of technologies for very thin solar cells [BMFT-FB-W-83-024] 08 p1181 N84-17694
RASCH, P. J.
Extending normal mode initialization: A new method [PB84-196435] 21 p3449 N84-31885
RASCHKE, E.
Sampling problems of satellite measurements of radiation budget parameters 10 p1534 N84-20045
A conical scan radiometer for an airplane mission 10 p1534 N84-20050
RASERA, R. L.
TDPAC (Time Differential Perturbed Angular Correlations) study of liquid and amorphous se sub (1-x)Te sub x alloys [AD-A135588] 09 p1279 N84-18353
RASH, C. E.
Automatic gain control circuit for video signals of scenes of varying illumination levels [AD-A144198] 24 p3894 N84-34658
RASHED, A.
Dynamic analysis of fluid-structure systems [PB84-162916] 16 p2478 N84-25887
RASHLEIGH, S. C.
Fiber optic sensor with enhanced immunity to random environmental perturbations [AD-D011115] 22 p3656 N84-33174
RASING, T.
Experimental investigation of 4-dimensional superspace crystals [DE84-009239] 19 p3112 N84-29775
RASKE, D. T.
Mechanical properties of types 304 and 316 stainless steel after long-term aging and exposure [DE84-003325] 07 p0976 N84-16327
RASMUSSEN, D. A.
Theoretical aspects of throat-launch microwave heating in EBT-S [DE83-015762] 03 p0438 N84-12875
Detailed modeling of microwave energy deposition in EBT devices [DE83-017496] 03 p0449 N84-12952
RASMUSSEN, H.
The plasma membrane calcium pump 02 p0264 N84-11734
RASMUSSEN, K. L.
Formation of Meteoritic chonrules by lightning 11 p1756 N84-21462
RASMUSSEN, R. M.
The melting spherical ice particles falling at terminal velocity in air: An experimental and theoretical study 02 p0252 N84-11647
RASMUSSEN, S.
Performance assessment of Serial Minimum Shift Keying (SMSK) modulation technique. Volume 1: Executive summary [ESA-CR(P)-1840-VOL-1] 12 p1809 N84-21796
Performance assessment of Serial Minimum Shift Keying (SMSK) modulation technique, volume 2 [ESA-CR(P)-1840-VOL-2] 12 p1809 N84-21797
RASOOL, S. I.
Calibration of TM data from ground-based measurements 20 p3209 N84-30385
RASSELL, K. T.
Further analysis of plasma bursts in high-latitude boundary layer of earth 19 p2973 N84-28847
RASSET, T. L.
A high performance MIL-STD-1750A microprocessor [AD-P003549] 21 p3334 N84-31153
RASSOKHA, A. A.
Deformation of fiber-reinforced laminated composite near free surface 23 p3706 N84-33497
RAST, U.
A multi-element study of ISUA iron-formation, W-Greenland 11 p1680 N84-20961
RASTOGI, P. K.
Spectral characteristics of the MST radar returns 17 p2685 N84-27094
Parametrization of Fresnel returns in middle-atmosphere radar experiments 17 p2689 N84-27123
Stratosphere and troposphere (S-T) studies at Millstone Hill. Recent results, capabilities and limitations 17 p2691 N84-27137
Data processing techniques used with MST radars: A review 17 p2694 N84-27159
A note on the use of coherent integration in periodogram analysis of MST radar signals 17 p2695 N84-27163
RATCLIFFE, C. A.
Develop real-time dosimetry concepts and instrumentation for long-term missions [NASA-CR-171809] 22 p3599 N84-32791
RATHBUN, W.
Interactive parallel processor for data analysis [DE84-004311] 10 p1564 N84-20250
RATHER, J. D. G.
Extragalactic radio sources: Rapid variability at 90 GHz [AD-A136533] 10 p1595 N84-20451
RATHJEN, J. A.
Lead 19 p2992 N84-28959
RATHJEN, K. A.
Enhancement of the CAVE computer code [NASA-CR-3731] 04 p0532 N84-13501
RATLIFF, S. T.
Study of generalized toroidal cusp configurations [DE84-006662] 14 p2229 N84-24369
RATYCH, L. V.
Dependence of rate of growth in aqueous corrosive medium on electrochemical conditions at tip of crack 24 p3871 N84-34530
RAU, C. A., JR.
Cost/risk analysis for disk retirement, volume 1 [AD-A141978] 20 p3131 N84-29881
RAUCH, F.
Body-freedom flutter of a 1/2-scale forward-swept-wing model, an experimental and analytical study [NASA-CR-172324] 12 p1771 N84-21553
RAUCH, J.
CSTS: The software test system for the TORNADO auto pilot [MBB-FE-325/S/PUB/118] 16 p2562 N84-26436
RAUCHAS, A.
Performance of the intense pulsed neutron source accelerator system [DE84-003607] 07 p1072 N84-16966
Proposed second harmonic acceleration system for the intense pulsed neutron source rapid cycling synchrotron [DE84-003601] 08 p1230 N84-18036
RAUE, J. E.
K-band latching switches [NASA-CR-168253] 15 p2327 N84-24973
RAUERT, W.
Report on measurements of terrestrial radiation in the Schwandorf area and the radiological load of the river Naab [GSF-A-6/83] 16 p2520 N84-26180
RAUH, R. D.
Variable transmittance electrochromic windows 16 p2517 N84-26158
Schottky barrier photoelectrodes with a variable barrier height [AD-A141813] 19 p3111 N84-29765
RAULT, R.
Orbital propulsion module system configuration study. Volume 1: Executive summary [S/DT/YA-25-030-VOL-1] 08 p1120 N84-17282
Orbital propulsion module system configuration study, volume 2 [S/DT/YA-25-030-VOL-2] 08 p1120 N84-17283
RAUPP, H.
Study of wind scatterometer antenna for ERS-1. Volume 1: Executive summary report [Y/A-3380] 13 p2017 N84-23080
Study of windscatterometer antenna for ERS-1 [MIX/A-3188] 13 p2018 N84-23081
RAUSCHENBACH, H. S.
Solar cell degradation in proton radiation orbits 19 p3045 N84-29315
RAUSCHER, B.
Amorphous silicon solar cells [BMFT-FB-T-83-112] 02 p0243 N84-11590
RAUSCHER, C.
Microwave frequency divider [AD-D011065] 19 p3017 N84-29124
RAUSCHER, G.
Investigations of magnetic wires for sensor applications [BMFT-FB-T-84-110] 23 p3752 N84-33787
RAUSCHER, H. M.
Microcomputer scientific software series 1: The numerical information manipulation system [PB83-263624] 05 p0731 N84-14797
Microcomputer scientific software series 2: General linear model-regression [PB83-263632] 05 p0731 N84-14798
Microcomputer scientific software series 3: General linear model-analysis of variance [PB83-263640] 05 p0731 N84-14799
RAVAIOLI, G.
Economic study of long distance optical fibre links [FUB-38-1982] 03 p0443 N84-12908
RAVASSARD, P.
Industrial forging applications of shaping simulation using modeling clay [CETIM-1.3K.36.2] 21 p3376 N84-31424
Construction of a test bench for closed die forging [CETIM-5.580.50] 21 p3376 N84-31425
RAVI-CHANDAR, K.
Workshop on Dynamic Fracture held at Pasadena, California on 17-18 February 1983 [AD-A140194] 16 p2466 N84-25806
Processes controlling the dynamic fracture of brittle solids [AD-P003108] 16 p2467 N84-25813
RAVI, K. V.
Overview of characterization techniques for high speed crystal growth 18 p2936 N84-28619
RAVIART, J. L.
Tensile strength and recrystallization of the 7010 and 7475 alloys: Low cycle fatigue of the 7010 alloy [REPT-18/5069-M] 18 p2815 N84-27873
RAVICHANDRAN, G.
A plate impact experiment for studying crack initiation at loading rates K(I) approximately 10(8) MPa m/s [AD-P003103] 16 p2466 N84-25808
RAVINDRA, N. M.
Optical properties of amorphous silicon: Some problem areas [DE84-701201] 24 p3964 N84-35102
RAVISHANKAR, P. S.
Segregation of impurities in directionally solidified silicon 18 p2940 N84-28647
RAVISHANKARA, A. R.
Kinetic studies of the reactions of CH3O2 with NO2 and OH with HNO3 [AD-A130922] 01 p0105 N84-10685
RAVNER, H.
Novel antistatic packaging materials [AD-D011069] 19 p3000 N84-29012
Method and apparatus for determination of lubricant stability [AD-D011193] 24 p3887 N84-34615
RAWL, D. E., JR.
Helium damage in austenitic stainless steels [DE83-017494] 03 p0355 N84-12309
RAWLINS, W. T.
COCHISE observations of Argon Rydberg emission from 2 to 16 micrometers [AD-A137916] 11 p1732 N84-21296
O-atoms yields from microwave discharges in N2O/Ar mixtures [AD-A130429] 14 p2137 N84-23808

RAWLS, J. M.
Advanced ICRF launchers for heating and current drive in large Tokamaks
[DE84-009092] 19 p3108 N84-29750
RAY, A. E.
A study of the magnetic and metallurgical properties of Sm(Co,Fe,Cu, Zr) sub z alloys near z = 8.5
[AD-A138253] 12 p1798 N84-21728
RAY, A. K.
Theoretical studies of solids under extreme conditions
[AD-A139352] 14 p2132 N84-23778
RAY, C. S.
MEA/A-1 experiment 81F01 conducted on STS-7 flight, June 1983. Containerless processing of glass forming melts
[NASA-CR-171048] 19 p2997 N84-28993
RAY, E. J.
High Reynolds number tests of the cast 10-2/DOA2 transonic airfoil at ambient and cryogenic temperature conditions 14 p2096 N84-23575
Status of advanced airfoil tests in the Langley 0.3-meter transonic cryogenic tunnel 18 p2783 N84-27664
High Reynolds number tests of a Boeing BAC I airfoil in the Langley 0.3-meter transonic cryogenic tunnel
[NASA-TM-81922] 18 p2786 N84-27684
High Reynolds number tests of the cast 10-2/DOA 2 airfoil in the Langley 0.3-meter transonic cryogenic tunnel, phase 2
[NASA-TM-86273] 23 p3689 N84-33382
RAY, H.
Dynamic instability of suddenly heated, thick, composite shells 15 p2309 N84-24853
RAY, J. L.
Evaluation of the BCT (Basic Cadet Training) paraprofessional counselor training at the United States Air Force Academy
[AD-P003244] 18 p2903 N84-28411
RAY, L.
Manned maneuvering unit simulations on the Space Operations Simulator 24 p3864 N84-34490
RAY, R.
Advanced powder metallurgy aluminum alloys via rapid solidification technology
[NASA-CR-172343] 16 p2464 N84-25794
RAY, R. L.
Behavioral and biological effects of changes in group size and membership
[NASA-CR-173801] 19 p3067 N84-29457
RAY, S.
The effect of fluids on waveguides below cutoff penetrations as related to electromagnetic shielding effectiveness
[AD-A144685] 24 p3896 N84-34670
RAY, S. K.
Three-dimensional measurements of fatigue crack closure
[NASA-CR-173679] 18 p2852 N84-28110
RAY, S. N.
User's guide for ERB 7 SEFDT. Volume 1: User's guide. Volume 2: Quality control report, year 1
[NASA-CR-170616] 16 p2581 N84-26553
NIMBUS 7 Earth Radiation Budget (ERB) matrix user's guide. Volume 2: Tape specifications
[NASA-CR-170620] 21 p3464 N84-31961
RAYA, A.
Design of Smith control schemes for time-delay systems based on plant step data
[RR-231] 05 p0733 N84-14812
RAYBORN, G. H.
Low energy electron magnetometer using a monoenergetic electron beam
[NASA-CASE-LAR-12706-1] 03 p0375 N84-12444
RAYLE, D. L.
Mechanism of shoot gravitropism
09 p1352 N84-18836
RAYMER, M.
CTD transect of the Kuroshio Extension 27-42 deg N, 152 deg E
[AD-A131329] 01 p0111 N84-10721
RAYMER, M. G.
Nonlinear optics with broad-band lasers
[DE84-005769] 12 p1908 N84-22432
RAYMOND, J. C.
Combined ultraviolet studies of astronomical sources
[NASA-CR-175234] 08 p1242 N84-18121
RAYMOND, J. P.
Single event upset phenomena from high energy neutrons
[AD-A131287] 02 p0292 N84-11914
RAYMOND, J. R.
Relationship of regional water quality to aquifer thermal energy storage
[DE84-006649] 14 p2169 N84-23992
Seasonal thermal energy storage
[DE84-013854] 23 p3791 N84-34042
RAYMOND, M. G.
Reliability and maintainability study of select solar-energy-system components in the National Solar Data Network
[DE83-011974] 03 p0404 N84-12647
RAYMOND, S. A.
Physiology 22 p3684 N84-33363
RAYNE, J. A.
A program of research on microfabrication techniques for VLSI magnetic devices
[AD-A131706] 03 p0452 N84-12978
RAYNOR, G. S.
Atmospheric Sciences Division
[DE83-014429] 01 p0098 N84-10639
Characteristics of wind direction meander during onshore flow at a coastal site
[DE84-004178] 11 p1688 N84-21007
Brookhaven National Laboratory Coastal Meteorology Program, 1972-1983
[DE84-008584] 18 p2891 N84-28349
RAYZER, Y. P.
Noncontradictory method of calculating radiation transfer, and problem of shock wave structure
21 p3481 N84-32060
RAZA, A. D.
Augmenting computer networks
[NASA-CR-172399] 20 p3277 N84-30800
RAZANI, M.
Microwave radiometric sensitivity to soil moisture under vegetation cover 01 p0098 N84-10640
RAZEVIG, V. D.
Methods of the analysis of the disruption of tracking
[AD-A133335] 06 p0918 N84-15963
RAZGOVOROV, B. L.
Prediction of vomiting in dogs exposed to radiation with shielding of midabdomen 02 p0261 N84-11710
RAZIN, A. V.
Features of sound penetration from air into water
18 p2858 N84-28152
RAZNITSIN, Y. N.
Tectonic and magmatic rock of central Pacific Ocean
18 p2858 N84-28150
RAZUMOVSKAYA, I. V.
Structural features of polycrystalline ZnSe and solid solutions ZnSa sub I-x S sub x 12 p1788 N84-21659
RAZZAQ, Z.
Stability, vibration and passive damping of partially restrained imperfect columns
[NASA-TM-85697] 04 p0548 N84-13608
RE, F.
Cosmic ray NM-64 neutron monitor data-9, January-December 1980, Rome, Italy
[IFSI-83-11] 18 p2954 N84-28722
Cosmic ray NM-64 neutron monitor data-10, January-December 1981, Rome, Italy
[IFSI-83-12] 18 p2954 N84-28723
Cosmic ray NM-64 neutron monitor data-9, January-December 1982, Rome, Italy
[IFSI-83-13] 18 p2954 N84-28724
RE, R. J.
Static internal performance including thrust vectoring and reversing of two-dimensional convergent-divergent nozzles
[NASA-TP-2253] 09 p1251 N84-18165
REA, E. C., JR.
Advanced diagnostics for reacting flows
13 p1943 N84-22637
READ, B. E.
An optical technique for assessing the long-term accuracy of lateral extensometers
[NPL-DMA(A)-78] 19 p3026 N84-29190
READ, C. H.
Hydrographic survey requirements system (HYSUR)
[AD-A131115] 02 p0240 N84-11573
READ, D. T.
Applied J-integral in HY130 tensile panels and implications for fitness for service assessment
[PB83-240598] 02 p0198 N84-11290
READING, J. F.
Progress in numerical calculations of ion-atom collisions
[DE84-003405] 08 p1229 N84-18033
Learning from numerical calculations of ion-atom collisions
[DE84-003265] 08 p1229 N84-18035
READING, K.
Photoelastic investigation of the stress concentration factor in welded joints
[ND-R-816(R)] 18 p2852 N84-28106
The stress analysis of a rotating cylinder experiment to determine crack growth in thick section steel
[DE84-701733] 24 p3913 N84-34778
REAGAN, J. A.
Measurements of optical properties of particulates in an arid region
[AD-A132889] 05 p0709 N84-14644
Recovery of spectral optical depth and zero-airmass solar spectral irradiance under conditions of temporally varying optical depth 23 p3775 N84-33930
REAGOR, B. G.
Earthquakes in the United States, January - March 1982
[USGS-CIRC-896-A] 11 p1677 N84-20945
Earthquakes in the United States, April - June 1982
[USGS-CIRC-896-B] 14 p2175 N84-24026
REALLAND, J. C.
Orbital propulsion module system configuration study. Volume 1: Executive summary
[S/DT/YA-25-030-VOL-1] 08 p1120 N84-17282
REAM, L. W.
Diesel engine catalytic combustor system
[NASA-CASE-LEW-12995-1] 23 p3756 N84-33808
Baseline performance and emissions data for a single-cylinder, direct-injected diesel engine
[NASA-TM-86873] 23 p3836 N84-34330
REAMS, W.
The effect of moisture on the physical and durability properties of methyl methacrylate polymer concrete
[DE83-016733] 03 p0390 N84-12541
REARIC, D. M.
Statistical aspects of ice gouging on the Alaskan Shelf of the Beaufort Sea
[AD-A134426] 08 p1196 N84-17798
REASONER, D. L.
Interaction of the space shuttle orbiter with the ionospheric plasma 08 p1117 N84-17265
REASS, W. A.
Electrical design of a high current density air-core reversed-field pinch ZTP
[DE84-004321] 10 p1586 N84-20395
REASS, W. R.
Poloidal field system design for the ZT-H reversed field pinch experiment
[DE84-004328] 10 p1586 N84-20396
REAZER, M. J.
Airborne lightning characterization
[AD-A130627] 06 p0881 N84-15733
Data acquisition for evaluation of an airborne lightning detection system
[AD-A135318] 08 p1100 N84-17153
REBBI, C.
A highly optimized vectorized code for Monte Carlo simulations of SU(3) lattice gauge theories
10 p1560 N84-20219
Numerical calculations in quantum field theories
[DE84-010892] 21 p3507 N84-32217
REBELLO, W. J.
Assessment of the BCL and ORL chemical heat pumps
[DE83-011450] 01 p0080 N84-10518
REBERT, C. S.
Neurophysiological bases of event-related potentials
[AD-A135263] 09 p1362 N84-18897
REBROV, M.
Krasnaya Zvezda on advantages of Cosmos-1443 modular spacecraft 05 p0633 N84-14161
REBY, J.
Pulsed current hard chromium plating
[CETIM-12-F-390] 21 p3369 N84-31372
Hydrogen fatigue test
[CETIM-12-F-400] 21 p3369 N84-31373
RECHARD, R. P.
Tape joint design guidelines
[DE84-002052] 05 p0688 N84-14522
RECKASE, M. D.
An application of a multidimensional extension of the two-parameter logistic latent trait model
[AD-A137741] 11 p1713 N84-21170
An extension of the two-parameter logistic model to the multidimensional latent space
[AD-A137769] 11 p1713 N84-21173
RECKER, K.
Optically nonlinear materials for tunable UV-lasers
[BMFT-FB-T-84-133] 23 p3755 N84-33806
RECTOR, C. W.
Laser damage and effects bibliography. Part 1: Journal literature through 1982
[AD-A144313] 24 p3908 N84-34755
REDA, D. C.
Construction and verification of a finite-element method for nonisothermal flows in porous media
[DE83-017158] 04 p0536 N84-13522
REDAELLI, R.
Onboard software testing and qualification
05 p0724 N84-14754
REDDING, D. C.
Optimal low-thrust transfers to geosynchronous orbit
21 p3348 N84-31240
REDDOCH, T. W.
Assessment of load-frequency-control impacts caused by small wind turbines
[DE82-011513] 06 p0872 N84-15677

REDDY, A. S. S. R.
Attitude and shape control of large space structures
13 p2019 N84-23091
Microprocessor based implementation of attitude and shape control of large space structures
14 p2245 N84-24482
The dynamics and control of large flexible space structures, part 7
[NASA-CR-173781] 19 p2981 N84-28892

REDDY, D. R.
Global pressure relaxation procedure for laminar and turbulent incompressible flows with strong interaction and separation 05 p0683 N84-14490

REDDY, J. F.
Application of transverse-section analytical electron microscopy to the study of oxidation of metal alloys
[DE84-006415] 20 p3157 N84-30049

REDDY, J. N.
Three-dimensional analysis of composite plates with material nonlinearity
[AD-A131684] 03 p0347 N84-12258
Exact and finite-element analysis of laminated shells
[AD-A135849] 09 p1332 N84-18695
Nonlinear analysis of laminated, bimodular composite material structures
[AD-A139942] 15 p2285 N84-24714
A shear deformable shell element for laminated composites 21 p3420 N84-31691

REDDY, K. R.
Calculation of the aerodynamic flow field in the vicinity of a Sea King helicopter
[ARL-AERO-REPT-158] 08 p1096 N84-17128

REDDY, P. V.
Analytical and experimental investigation of rotating blade response due to nozzle passing frequency excitation 10 p1515 N84-19917

REDDY, S. M.
Test procedures and design methods for reliable large scale integrated circuits and systems
[AD-A143324] 22 p3638 N84-33061

REDEKER, A.
On-line acquisition and processing of flight mechanical data on board the research aircraft of the Technische Universitaet, Brunswick 17 p2587 N84-26585

REDEKER, G.
Data from tests of a R4 airfoil in the Langley 0.3-meter transonic cryogenic tunnel
[NASA-TM-85739] 23 p3690 N84-33385

REDER, L. J.
Symbol-stream combiner: Description and demonstration plans 22 p3574 N84-32632

REDEY, L.
Electrochemical characteristics of lithium-silicon alloy electrodes for high-temperature-battery applications
[DE83-014343] 01 p0039 N84-10244
Resistance characterization of nickel sulfide electrodes in LiCl-containing molten salt electrolytes
[DE84-006734] 13 p1987 N84-22898
Lithium-alloy/metal sulfide battery research
[DE84-013427] 22 p3587 N84-32720
Characterization of voltage losses during high-intensity current pulses in reactive, porous electrodes of molten salt cells
[DE84-012112] 22 p3589 N84-32730
Electrochemical performance of porous nickel sulfide electrodes
[DE84-009586] 22 p3590 N84-32741

REDIESS, H. A.
Foreign technology summary of flight crucial flight control systems 11 p1618 N84-20587
Technology review of flight crucial flight controls
[NASA-CR-172332] 13 p1934 N84-22583

REDIKER, R. H.
Optical propagation and communication
22 p3683 N84-33355

REDINBO, G. R.
Fault tolerant signal processing using finite fields and error-correcting codes
[AD-A133927] 05 p0667 N84-14386

REDING, J. P.
Aeroelastic stability analysis of the light weight tank LH-2 cable tray
[LMSC/D056511] 05 p0692 N84-14543
Practical solutions to simulation difficulties in subscale wind tunnel tests 14 p2097 N84-23581

REDKOVSKIY, N. N.
Sequential method of minimizing nonlinear function on simplex 21 p3484 N84-32080

REDMAN, L. D.
Mercuric 5-nitrotetrazole, a possible replacement for lead azide in Australian ordnance. Part 1: An assessment of preparation methods
[MRL-R-901] 05 p0661 N84-14344

REDMON, J. W.
Impacting device for testing insulation
[NASA-CASE-MFS-25862-2] 23 p3756 N84-33807

REDMON, J., JR.
Solid rocket booster thrust vector control subsystem description
[NASA-TM-82546] 01 p0029 N84-10183

REDMON, L. T.
Theoretical predictions of excitation cross sections for collisions of HF, HCl, CO, H2O, and CO2 with O(P-3)
13 p1942 N84-22630

REDMON, N. J.
Theoretical predictions of excitation cross sections for collisions of HF, HCl, CO, H2O, and CO2 with O(P-3)
13 p1942 N84-22630

REDNER, A. S.
Measurement of residual strains and stresses in transparent materials
[AD-P003209] 17 p2593 N84-26622

REDONDI, G.
An instrument for the characterization of defects in ultrasonic inspections
[CISE-2073] 05 p0690 N84-14533
A comparison between new and traditional ultrasonic techniques on thick welds in pressure vessels
[CISE-2074] 05 p0690 N84-14534

REDSTOCK, R.
Development of a wind tunnel test section with adaptive flexible walls for three-dimensional flow
[BMFT-FB-W-83-026] 10 p1495 N84-19776

REE, F. H.
Theoretical and experimental studies of shock-compressed benzene and polybutene
[DE83-015884] 03 p0430 N84-12816

REECE, C. E.
A superconducting microwave parametric converter transducer sensitive to 10 to the minus nineteenth power m harmonic motion 21 p3489 N84-32112

REED, C.
A methodology for digital processing of geographic and cartographic data
[AD-A135835] 09 p1337 N84-18730

REED, C. K.
Current trends in atomic spectroscopy. Report on a workshop held in Tucson, Arizona, October 24-26, 1982
[AD-A139288] 14 p2222 N84-24333

REED, D. A.
A model of asynchronous iterative algorithms for solving large, sparse, linear systems
[NASA-CR-172418] 21 p3469 N84-31988

REED, E. I.
RECOZ data reduction and analysis: Programs and procedures
[NASA-TM-87365] 24 p3944 N84-34973

REED, H. L.
An analysis of wave interactions in swept-wing flows
[NASA-CR-173723] 18 p2786 N84-27681

REED, I.
A digital adaptive array processing algorithm for communications 13 p1977 N84-22834

REED, I. S.
VLSI architectures for computing multiplications and inverses in GF(2-m) 04 p0518 N84-13406
Fast convolution algorithms and associated VHSIC architectures
[AD-A133851] 05 p0674 N84-14432
A parallel VLSI architecture for a digital filter using a number theoretic transform 09 p1400 N84-19141
A systolic VLSI design of a pipeline Reed-Solomon decoder 10 p1474 N84-19631
Minimum-error trellis-path decoders for convolutional codes
[AD-A140811] 17 p2753 N84-27474
Error-trellis syndrome decoding techniques for convolutional codes 22 p3574 N84-32633

REED, J. E.
Survey and analysis of materials research and development at selected federal laboratories
[DE84-008904] 20 p3145 N84-29967

REED, J. R.
Analytical and experimental study of grooved pavement runoff
[AD-A141021] 18 p2798 N84-27752

REED, K. A.
Development of a consensus standard for determining thermal performance of high-concentration-ratio solar collectors
[DE83-005129] 06 p0872 N84-15676

REED, L. K.
Simulation of closure: Effects on crack detection probability and stress distributions
[DE83-009309] 01 p0097 N84-10633

REED, M. J.
Assessment of low-temperature geothermal resources of the United States, 1982
[DE84-007193] 22 p3615 N84-32902

REED, P. W.
Carboxylic acid ionophores as probes of the role of calcium in biological systems 02 p0264 N84-11735

REED, R.
Status of ammonium nitrate in propellants and explosives 13 p1946 N84-22655

REED, R. O.
Review of the use of the thermodynamic diagram and its functions (with the application towards AFOS)
[PB84-120815] 09 p1350 N84-18822

REED, R. P.
Materials studies for magnetic fusion energy applications at low temperatures, part 6
[PB83-259630] 05 p0657 N84-14320

REED, T. N.
Review of the ANSI metafile and virtual device interface standardization activities
[DE83-015925] 03 p0419 N84-12737

REED, W.
Space telescope
[NASA-CR-170948] 06 p0938 N84-16097

REEDER, M. J.
Lessons learned from FY82 US Army aviation mishaps
[AD-A131725] 03 p0328 N84-12137
Investigation, reporting and analysis of US Army aircraft accident 06 p0775 N84-15077

REEDY, R. C.
Model for GCR-particle fluxes in stony meteorites and production rates of cosmogenic nuclides
[NASA-CR-173923] 22 p3679 N84-33321

REES, D.
Feasibility study on the application of Fabry-Perot interferometry and imaging photon detectors to ocean colour monitoring
[OMD/HVM-83] 23 p3784 N84-34002

REES, J.
Using ions to probe the transverse size of a bunch
[DE84-012772] 21 p3494 N84-32141

REES, J. R.
Further effects of ions in the arcs
[DE84-011761] 21 p3495 N84-32149

REESE, J., JR.
Development of mass-producible line-focus tracking concentrating solar collectors. Category 1: Collectors
[DE83-015629] 03 p0403 N84-12639

REESE, R. W.
Test and evaluation of the Philips Model PE 1701 and Lester Model 9865 electric vehicle battery chargers
[DE84-901243] 21 p3394 N84-31541

REEVE, M. H.
A radically new approach to the installation of optical fibre using the viscous flow of air
11 p1724 N84-21247

REEVES, A. B.
The dual-frequency scatterometer reexamined
17 p2714 N84-27280

REEVES, A. D.
The industrial modernization incentives program: An experimental effort to improve defense contractor productivity
[AD-P002771] 13 p2053 N84-23318

REEVES, C. M.
Fuel property effects on USAF gas turbine engine combustors and afterburners 14 p2107 N84-23635
Utilization of laser diagnostics to evaluate combustor models 15 p2294 N84-24767

REEVES, C. R.
High efficiency heat pump using ground heat source
[DE84-006385] 22 p3594 N84-32761

REEVES, J. H.
Double beta decay: Recent developments and projections
[DE84-000476] 04 p0598 N84-13944

REEVES, J. T.
Increased metabolism and dead space as components of ventilation at high altitude
[AD-A130827] 06 p0887 N84-15766
Variable inhibition by falling CO2 of hypoxic ventilatory response in man
[AD-A130658] 06 p0887 N84-15768
Ventilation and ventilatory control in high altitude pulmonary edema and acute mountain sickness
[AD-A135941] 10 p1548 N84-20145

REF, D. J.
Internal magnetic field measurements in a translating field-reversed configuration
[DE84-010054] 20 p3284 N84-30854

REFFEL, H.
Concept study phase A2 for the solar spectrograph PETRA
[BMFT-FB-W-83-014] 07 p1008 N84-16540
Assessment of data handling configurations for onboard operating system definition (phase 1)
[ESA-CR(P)-1787] 09 p1273 N84-18314
POPSAT: A candidate satellite system for solid Earth applications and sciences. Preliminary feasibility study. Volume 1: Summary
[ESA-CR(P)-1882-VOL-1] 17 p2614 N84-26735

POPSAT: A candidate satellite system for solid Earth applications and sciences. Preliminary feasibility study. Volume 2: Development program
[ESA-CR(P)-1882-VOL-2] 17 p2614 N84-26736
REFOLO, P. J.
Geologic study of the Wind River Basin, Fremont and Natrona Counties, central Wyoming
[PB83-254912] 03 p0409 N84-12677
REGAN, C.
Holographic aids for internal combustion engine flow studies
[NASA-TM-83681] 15 p2335 N84-25017
REGAN, C. A.
Multicomponent velocity measurement in a pison-cylinder configuration using laser velocimetry
[NASA-TM-83534] 05 p0627 N84-14121
REGAN, D. C.
Wind-powered heat pump experiment
[DE84-003141] 07 p1026 N84-16647
REGAN, J.
Anisotropic models of the upper mantle
[NASA-CR-173549] 16 p2521 N84-26182
REGAZZI, J. J., III
A study of critical factors affecting the development of performance measures in evaluating bibliographic information retrieval systems 03 p0460 N84-13030
REGENIE, V. A.
Design implications from AFTI/F-16 flight test
[NASA-TM-86026] 05 p0632 N84-14157
REGINATO, L.
Magnetic switching
[DE83-012952] 03 p0433 N84-12841
REGNAULT, W. F.
Effects of non-equilibrium solidification on the material properties of brick silicon for photovoltaics 18 p2940 N84-28648
REGNIER, S.
Cosmic ray exposure ages of iron meteorites, complex irradiation and the constancy of cosmic ray flux in the past 11 p1755 N84-21455
REGO, J.
Rail accelerator development for ultra-high pressure research
[DE84-002452] 07 p0960 N84-16223
REGOORD, R.
Optimization of a stiffened plate
[IWECO-5071303-82-1] 12 p1827 N84-21911
REHAK, P.
The concept of a solid state direct chamber 06 p0912 N84-15924
Semiconductor drift chamber: An application of a novel charge transport scheme
[DE84-002875] 07 p1082 N84-17038
REHM, B. W.
Geological and geochemical controls on the chemical evolution of subsurface water in undisturbed and surface-mined landscapes in western North Dakota
[PB84-126952] 08 p1180 N84-17685
REHM, K. E.
Search for doubly-charged negative ions via accelerator mass spectrometry
[DE83-014321] 01 p0038 N84-10243
REHN, L. E.
Study of ion bombardment-induced subsurface compositional modifications in Ni-Cu alloys at elevated temperatures by ion scattering spectroscopy
[DE84-003632] 08 p1135 N84-17380
REHR, J.
Soliton bag: Dynamics and the quark plasma
[DE84-001103] 05 p0745 N84-14895
REICHEL, L.
On complex rational approximation by interpolation at preselected nodes
[AD-A130526] 01 p0131 N84-10855
A collocation method for computing eigenvalues and eigenfunctions of the Laplacian
[AD-A132827] 05 p0737 N84-14839
Edge waves by boundary collocation
[AD-A137959] 18 p2924 N84-28545
Analysis of an integration method for rapidly oscillating integrands
[AD-A141731] 19 p3087 N84-29598
REICHELT, A.
Optical multiplexers and demultiplexers for optical wavelength-division multiplex transmission systems
[BMFT-FB-T-83-167] 05 p0748 N84-14912
REICHERT, C. F.
Reflector antennas with low sidelobes, low cross polarization, and high aperture efficiency
[NASA-CR-174670] 21 p3383 N84-31464
REICHERT, G. A.
X-ray and optical studies of extragalactic X-ray emitters 02 p0308 N84-12024
REICHERT, P.
First results of the evaluations of the European SAR 580 data for agricultural and forestry purposes in test site D6, Freiburg (West Germany) 03 p0398 N84-12599
REICHLE, D. E.
An analysis of possible future atmospheric retention of fossil fuel CO-2
[DOE/OR-21400/1] 23 p3793 N84-34054
REICHMAN, B.
Photoelectrochemical cells including chalcogenophosphate photoelectrodes
[NASA-CASE-LAR-12958-1] 13 p2007 N84-23019
REICHSTEIN, Z.
Minimum-distance problems in protocol design 16 p2480 N84-25903
REID, D. E.
Development of long-length wire filament strain gages
[DE84-011543] 21 p3406 N84-31605
REID, L.
End-wall boundary layer measurements in a two-stage fan 07 p0957 N84-16208
REID, M. A.
Method of making a light weight battery plaque
[NASA-CASE-LEW-13349-1] 13 p1960 N84-22734
Chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] 18 p2868 N84-28205
Development of a lightweight nickel electrode
[NASA-TM-86861] 20 p3234 N84-30528
REID, R. L.
Thermal and electric energy and desalination with a salt gradient solar pond
[DE84-900416] 08 p1181 N84-17691
REID, W. J.
Advanced pattern recognition
[AD-A132339] 04 p0604 N84-13987
REIDLER, W. K.
Plasma processes caused by an electron beam injected from a high altitude rocket probe. Part 1: Neutralization processes
[IWF-8302] 17 p2728 N84-27363
REIDY, J. J.
Guidance and actuation systems for an adaptive-suspension vehicle
[AD-A139111] 14 p2155 N84-23910
REIF, F.
Towards a general scientific reasoning engine
[AD-A141263] 18 p2924 N84-28543
REIF, L. R.
Low temperature epitaxial deposition of silicon by plasma enhanced CVD (Chemical Vapor Deposition)
[AD-A143208] 22 p3662 N84-33216
REIFENBERGER, R.
Photo-induced field emissions from metallic surfaces
[DE84-000872] 04 p0601 N84-13966
REIFF, J.
The use of trajectories in short range weather forecasting
[KNMI-TR-35] 12 p1861 N84-22126
The specific humidity profile of the convective atmospheric boundary layer
[KNMI-WR-84-2] 15 p2368 N84-25207
REIFSCHNEIDER, D. P.
Equipment and design changes in extrusion of foamed fluoropolymer resins 11 p1721 N84-21229
REIFSNIDER, K. L.
Advanced fatigue damage development in graphite epoxy laminates
[AD-A130190] 01 p0031 N84-10194
Fatigue damage-strength relationships in composite laminates. Volume 1
[AD-A133485] 06 p0799 N84-15206
Assessment of microdamage development during tensile loading of graphite/epoxy laminates
[AD-A139128] 14 p2119 N84-23701
Fatigue damage - strength relationships in composite laminates, volume 2
[AD-A139241] 14 p2120 N84-23704
REIGBER, C.
The geodetic use of satellite observations 10 p1519 N84-19947
REIGELUTH, C. M.
Extended development procedure EDeP user's manual
[AD-A131381] 01 p0116 N84-10756
REILAENDER, H.
Engine condition monitoring with aircraft integrated data systems on Lufthansa A310 17 p2585 N84-26571
REILLY, H. F., JR.
RF performance of a proposed L-band antenna system 04 p0519 N84-13410
REILLY, J.
An analysis of possible future atmospheric retention of fossil fuel CO-2
[DOE/OR-21400/1] 23 p3793 N84-34054
REILLY, J. J.
Liquid suspensions of reversible metal hybrides
[DE84-014358] 24 p3881 N84-34586
REILLY, J. P.
Low-inductance, dual-feed diode development
[DE84-000117] 04 p0527 N84-13465
Human reactions to elf electric and magnetic fields: An annotated bibliography of current literature, 3rd edition
[PB83-259648] 05 p0714 N84-14679
Human reactions to transient electric currents, volume 6
[PB84-112895] 08 p1202 N84-17834
Multiphoton ionization mass and photoelectron spectroscopy
[AD-A143823] 23 p3714 N84-33542
REILLY, M. H.
Techniques for locating a remote HF transmitter from single-site measurements
[AD-A132014] 03 p0360 N84-12342
Confidence region for the evaluation of HF DF single site location systems
[AD-A133208] 06 p0785 N84-15140
REILLY, M. L.
Assessing the credibility of the calorific value of municipal solid waste
[PB84-175470] 16 p2474 N84-25861
REILLY, R. J.
Investigation of the acoustic characteristics of aircraft/engines operating in a dry-cooled jet engine maintenance test facility 10 p1513 N84-19901
REILY, J. C.
The AXAF technology program: The optical flats tests
[NASA-TM-82570] 10 p1578 N84-20341
REIMAN, A.
Wireless communication systems
[AD-A135830] 09 p1300 N84-18496
REIMANN, J.
The new space simulation and thermal vacuum facility WSA/TVA 10 p1448 N84-19460
REIMANN, K. J.
In-situ measurements of bronze deterioration
[DE84-007300] 15 p2299 N84-24796
REIMNITZ, E.
Statistical aspects of ice gouging on the Alaskan Shelf of the Beaufort Sea
[AD-A134428] 08 p1196 N84-17798
Sedimentary facies on an ice dominated shelf, Beaufort Sea, Alaska 14 p2165 N84-23967
REINATH, M. S.
A laser velocimeter system for large-scale aerodynamic testing
[NASA-TM-84393] 07 p0947 N84-16144
Laser velocimetry in the low-speed wind tunnels at Ames Research Center
[NASA-TM-85885] 07 p1007 N84-16526
REINDEL, J.
Slotline reverse-phased hybrid ring coupler
[AD-D011182] 24 p3897 N84-34673
REINDLER, A.
Magnetic roll/yaw attitude control of a momentum biased near polar orbit satellite
[MBB-UR-629-83-O] 16 p2561 N84-26432
REINECK, S.
Development of a prototype cathode sputtering plant
[BMFT-FB-T-83-251] 10 p1472 N84-19617
REINFURT, D. W.
Statistical evaluation of the effectiveness of the 1976 version of the FMVSS 301: Fuel system integrity
[PB83-205211] 01 p0164 N84-11075
REINGRUBER, J. K.
Expendable infrared source and method therefor
[AD-D011112] 22 p3581 N84-32551
REINHARD, F.
Pilot system for the purification of rinse water and for the recuperation of metals in electroplating companies. Pilot system metal recovery from waste water (RMA)
[BMFT-FB-T-83-208] 08 p1126 N84-17323
REINHARDT, B. A.
Syntheses and properties of phenylated aromatic heterocyclic imide and thiazole polymers containing pendant diphenylether and diphenylsulfide groups
[AD-A140341] 16 p2472 N84-25844
REINHARDT, D.
Development of a 60 cm photographic Zenith telescope, and construction of a prototype
[BMFT-FB-T-84-122] 23 p3826 N84-34263
REINHARDT, V. S.
High stability buffered phase comparator
[NASA-CASE-GSC-12645-1] 07 p0998 N84-16454
REINHART, E.
The observation of artificial satellites and VLBI 10 p1519 N84-19946
The computation of an astrogravimetric geoid by adjustment 17 p2727 N84-27357

Doppler observation campaign in the Ivory Coast: Reconnaissance, measuring, interpretation and experience 19 p3040 N84-29289
REINHART, T. J.
Heat resistant copolyester-carbonate transparent plastics
[AD-P003205] 17 p2593 N84-26618
REINHOLTZ, C. F.
Theories of kinematic analysis and synthesis of spatial mechanisms containing lower and higher pairs
[AD-A134519] 07 p1016 N84-16594
REINIG, H. J.
Improving the legibility of computer printouts
[BMFT-FB-DV-84-001] 16 p2542 N84-26315
REINISCH, B. W.
Real-time in-situ targeting of geoplasma domains for purposes of chemical injection and artificial triggering of equatorial spread-F 05 p0639 N84-14208
Automatic electron density profiles from digital ionograms 06 p0869 N84-15659
Automatic real time ionogram scaler with true height analysis - artist
[AD-A135174] 08 p1187 N84-17732
Ionospheric research using digital ionosondes
[AD-A140012] 15 p2368 N84-25210
REINKENHOF, J.
Thermodynamic model for a central receiver of a solar plant with partial shading of the heliostat field
[ESA-TT-807] 13 p2010 N84-23034
REINMAN, G. L.
Weibull analysis handbook
[AD-A143100] 21 p3475 N84-32023
REINSTRA, S. W.
Contributions to the theory of sound propagation in ducts with bulk-reacting lining
[NLR-MP-83064-U] 17 p2763 N84-27551
REISCHLER, C.
Roots of N-valued switching functions
[AD-P002350] 14 p2192 N84-24141
REISER, B.
Statistical inference for reliability from stress strength relationships: The normal case
[AD-A142893] 21 p3472 N84-32005
REISER, M.
Beam front accelerators
[DE84-003709] 08 p1229 N84-18032
REISING, J. M.
Symbology verification study
[AD-A131328] 02 p0177 N84-11162
Computer generated pictorial stores management displays for fighter aircraft
[AD-A131412] 02 p0179 N84-11168
REISING, S. A.
Automated administrative data bases
11 p1749 N84-21411
REISS, E. L.
Nonlinear stability control
[DE83-014341] 01 p0082 N84-10532
The stability and dynamics of elastic structures and fluid flows
[AD-A137184] 10 p1491 N84-19750
The stability and dynamics of elastic structures and fluid flows
[AD-A141206] 18 p2837 N84-28006
REISS, H. G.
Design, manufacture and tests of a locking and unlocking mechanism, using memory elements (vem); layout, manufacture and testing of a tracking mechanism, using memory elements for locking/unlocking and driving and being suitable for qualification (NFMM)
[BMFT-FB-W-84-012] 19 p3033 N84-29236
REISS, R.
Optimization of space structures
14 p2245 N84-24480
REITER, E. R.
Atmospheric planetary-wave response to external forcing
[NASA-CR-175165] 08 p1186 N84-17726
REITER, H.
Non-destructive evaluation techniques, high temperature ceramic component parts for gas turbines
[NASA-TM-77755] 23 p3694 N84-33413
REITER, L. J.
A probabilistic analysis of silicon cost
[NASA-CR-173461] 12 p1801 N84-21741
Summary of photovoltaic system performance models
[NASA-CR-173737] 18 p2870 N84-28220
REITER, R.
Scientific analysis of existing data on aerosol dispersion and transport in a mountain valley
[AD-A142013] 20 p3238 N84-30555
REITTER, T. A.
Data analysis of the LLNL hydrogen igniter experiments
[DE83-010260] 01 p0037 N84-10236
REJ, D. J.
Translation of field-reverse configurations in the FRX C/T experiment
[DE84-007489] 14 p2230 N84-24376
Interaction of the neutral deuterium flux with a field-reversed configuration
[DE84-007488] 16 p2559 N84-26415
REJNUS, L.
DARK: A computer based system for simulating the potential hazards from releases of pressurized gases
[FOA-C-40183-C2] 10 p1565 N84-20255
REM, M.
Partially ordered computations with applications to VLSI design 08 p1208 N84-17880
REMBAUM, A.
Photoelectrochemical electrodes
[NASA-CASE-NPO-15458-1] 03 p0348 N84-12262
REMBETSY, L. M.
High energy density lithium primary cells using nitrogen containing polymer positives
[AD-A137377] 10 p1529 N84-20018
REMBOLD, B.
A 60 GHz pulse radar for detection of high voltage power lines
[BMFT-FB-W-84-013] 19 p3009 N84-29077
REMICK, R. J.
Electrochemistry of the sulfide-polysulfide couple
[DE84-005881] 11 p1629 N84-20661
Effects of H2S on molten carbonate fuel cells
[DE84-010485] 20 p3234 N84-30531
Advanced onboard storage concepts for natural gas-fueled automotive vehicles
[NASA-CR-174655] 23 p3790 N84-34036
REMILLARD, M. D.
Water resources data for Utah, water year 1982
[PB84-120484] 09 p1340 N84-18756
REMMERS, G.
The evolution of spectral techniques in Navy shock design 10 p1508 N84-19871
REN, T.
Application of semi-empirical Ge(Li) detector calibration technique for large volume samples
[DE83-012801] 16 p2494 N84-26004
RENARDY, M.
A local existence and uniqueness theorem for a K-BKZ-fluid
[AD-A130503] 01 p0131 N84-10861
Remarks on the stability of viscometric flow
[AD-A134571] 07 p1002 N84-16500
Initial value problems for viscoelastic liquids
[AD-A136425] 09 p1375 N84-18980
A finite difference study of the stretching and break-up of filaments of polymer solutions
[AD-A139258] 14 p2130 N84-23767
Instability of the flow of two immiscible liquids with different viscosities in a pipe
[AD-P002935] 14 p2196 N84-24175
Hyperbolicity and change of type in the flow of viscoelastic fluids
[AD-A141508] 19 p3023 N84-29172
On a class of quasilinear partial integrodifferential equations with singular kernels
[AD-A141700] 19 p3087 N84-29595
Hopf bifurcation in two-component flow
[AD-A142844] 21 p3400 N84-31568
RENARDY, Y.
Remarks on the stability of viscometric flow
[AD-A134571] 07 p1002 N84-16500
Two-fluid couette flow between concentric cylinders
[AD-A137969] 12 p1815 N84-21834
Instability of the flow of two immiscible liquids with different viscosities in a pipe
[AD-P002935] 14 p2196 N84-24175
Oscillatory instability in a 2-fluid Benard problem
[AD-A142792] 21 p3399 N84-31565
RENAUDIN, J. F.
Preliminary investigations of means to transfer computer programs to the forging industry
[CETIM-1.3K.38.2] 21 p3467 N84-31983
RENBARGER, K. S.
A crustal structure study of South America
15 p2357 N84-25139
RENDIGS, R. R.
Georges Bank monitoring program: Analysis of trace metals in bottom sediments during the second year of monitoring
[PB84-169465] 16 p2534 N84-26269
RENFREE, R. W.
Mechanical and physical properties of poly(vinylidene fluoride) at high pressures and temperatures
[AD-A137842] 11 p1637 N84-20705
RENFRO, V. E.
Aircraft loading adapter for use with ordnance lift vehicle
[AD-D011147] 23 p3696 N84-33421
RENGER, W.
Mapping of Arctic haze using airborne lidar
24 p3907 N84-34746
RENGSTORFF, G. W. P.
Friction and wear of iron in sulfuric acid
[NASA-TP-2289] 12 p1796 N84-21716
Friction and wear of nickel in sulfuric acid
[NASA-TP-2290] 12 p1797 N84-21721
Interaction of sulfuric acid corrosion and mechanical wear of iron
[NASA-TM-83717] 18 p2813 N84-27857
RENHORN, I.
Frequency stabilization of carbon dioxide lasers
[FOA-C-30328-E1] 02 p0228 N84-11496
Design and calibration of a CW coherent laser radar
[FOA-C-30345-E1] 15 p2320 N84-24930
RENIE, J. P.
Combustion modeling of composite solid propellants
03 p0351 N84-12285
On the oscillatory flowfield in solid rocket motors
13 p1945 N84-22645
Effect of non-constant solid phase thermal properties on temperature sensitivity of solid propellant
13 p1946 N84-22654
RENK, E. B.
Low temperature fluorination of aerosol suspensions of hydrocarbons utilizing elemental fluorine
[AD-A139958] 15 p2287 N84-24721
RENKEN, J. H.
Ground and inflight operational effects of APU's
03 p0335 N84-12182
Ground and inflight operational effects of APU's
[VFW-30/83-O] 16 p2562 N84-26438
RENN, C.
Metallurgy: Development of material recovery
16 p2465 N84-25795
RENNE, D. S.
Status of wind-turbine wakes research in the federal wind energy program
[DE83-013828] 01 p0005 N84-10033
Doppler lidar results from the San Gorgonio Pass experiments 24 p3928 N84-34868
RENNELS, G.
Strategic explanations for a diagnostic consultation system
[AD-A140014] 15 p2396 N84-25371
RENON, C.
Tensile strength and recrystallization of the 7010 and 7475 alloys: Low cycle fatigue of the 7010 alloy
[REPT-18/5069-M] 18 p2815 N84-27873
RENTROP, P.
Partitioned Runge-Kutta procedures for numerical solution for nonstiff and stiff initial value problems
[TUM-M8304] 02 p0279 N84-11828
RENTZ, R. L.
Development of accelerated fuel-engine qualification procedures
[AD-A143845] 23 p3693 N84-33406
RENZ, D. D.
High-current, high-frequency capacitors
01 p0011 N84-10067
Parametric analysis of hollow conductor parallel and coaxial transmission lines for high frequency space power distribution
[NASA-TM-83601] 11 p1625 N84-20639
High voltage-high power components for large space power distribution systems
[NASA-TM-83648] 13 p1940 N84-22615
RENZETTI, N. A.
Telecommunications and data acquisition support for the Pioneer Venus Project: Pioneers 12 and 13, prelaunch through March 1984
[NASA-CR-173893] 22 p3539 N84-32403
REPAK, P. L.
A simulation analysis of space-based and airborne moving platform radars in look-down clutter
[AD-A133813] 05 p0667 N84-14389
REPETTI, G.
Polymers which are resistant to ionizing radiation for paints used in light water nuclear power stations
[BLL-RISLEY-TR-4907-(9091.9F)]
17 p2626 N84-26801
REPH, M. G.
Pilot climate data system user's guide
[NASA-TM-86084] 21 p3463 N84-31956
NASA climate data catalog
[NASA-TM-86085] 24 p3923 N84-34827
REPLOGLE, K. K.
Computer simulation of the heavy-duty turbo-compounded diesel cycle for studies of engine efficiency and performance
[NASA-CR-174755] 22 p3676 N84-33306
REPOFF, T. P.
The NOAA-ERL-ARL solar UV radiation and climate research project program description
[PB84-183292] 20 p3319 N84-31070

REQUICHA, A. A. G.
Efficient editing of solid models by exploiting structural and spatial locality
[TM-46] 23 p3815 N84-34190
Boolean operations in solid modelling: Boundary evaluation and merging algorithms
[TM-26] 23 p3818 N84-34207
RESCH, G. M.
Another look at the optimum frequencies for a water vapor radiometer 10 p1473 N84-19622
inversion algorithms for water vapor radiometers operating at 20.7 and 31.4 GHz
10 p1473 N84-19623
RESCIGNO, T. N.
Localized hole effects in inner-shell excitation
[DE84-001401] 05 p0755 N84-14956
RESENDE, M. G. C.
A computer program for reliability evaluation of large-scale undirected networks via polygon-to-chain reductions
[AD-A134190] 07 p1054 N84-16826
RESHOTKO, E.
Scaling and modeling of three-dimensional, end-wall, turbulent boundary layers
[NASA-CR-3792] 16 p2485 N84-25941
Environment and receptivity 23 p3748 N84-33760
Laminar flow control - viscous simulation
23 p3749 N84-33764
RESING, H. A.
High-resolution solid-state (13)C NMR study of the templating cations in tetrapropylammonium fluoride silicalite: The effect of steric interactions
[DE83-011706] 06 p0925 N84-16013
RESNICK, S. M.
Performance appraisal revisited
[AD-A132841] 06 p0932 N84-16059
RESNIK, W. M.
Design analysis of advanced photovoltaic technologies
[DE84-000008] 04 p0557 N84-13675
RESTER, A. C., JR.
Shuttle flight test of an advanced gamma-ray detection system
[AD-A136681] 10 p1498 N84-19789
Shuttle flight test of an advanced gamma-ray detection system
[AD-A136157] 15 p2337 N84-25030
RESUNER, P.
Techniques for fatigue life predictions from measured strains
[NASA-CR-171118] 20 p3201 N84-30334
RESZNIAK, W.
New acid-proof protective coating
14 p2136 N84-23806
RETELLE, J. P., JR.
An investigation of airfoil dynamic stall with large amplitude motions
[AD-A134230] 07 p0948 N84-16150
RETELSDORF, H. J.
MoO3, ex MoS2, with further processing of the metal-bearing waste sulfuric acid generated in the process
[BMFT-FB-T-83-297] 15 p2366 N84-25196
RETTIE, I. H.
Aerodynamic design for overall vehicle performance
03 p0318 N84-12077
Interference problems in aircraft design
03 p0319 N84-12084
REUBUSH, D. E.
Effect of thrust vectoring and wing maneuver devices on transonic aeropropulsive characteristics of a supersonic fighter
[NASA-TP-2119] 01 p0004 N84-10025
REUCROFT, P. J.
Structural characterization of dispersed metal catalysts
[DE83-017145] 03 p0354 N84-12305
REUTER, D.
Comparison of AMSU temperature soundings with those produced by HIRS and AMTS 12 p1851 N84-22057
Water vapor profile retrieval simulation studies for the HIRS/MSU and AMTS/MSU sounders
12 p1851 N84-22058
Results of the joint NASA/NOAA AMTS/HIRS2 sounding simulation test 12 p1851 N84-22059
A new algorithm for tuning of computed radiances for HIRS2/MSU 12 p1852 N84-22063
REUTER, D. C.
The 12 micron band of ethane: A spectral catalog from 765 cm(-1) to 900 cm(-1)
[NASA-TM-85108] 10 p1454 N84-19493
REUTER, W. G.
Comparison of fracture-toughness measurements from ferritic-steel compact-tension and surface-flawed specimen
[DE84-000895] 06 p0804 N84-15240
Comparison of predicted versus experimentally-determined stresses for crack initiation of surface flaws in a 304 stainless steel and a ferritic steel
[DE84-005481] 11 p1634 N84-20680
REUTHER, H. J.
Microwave remote sensing experiment for first Spacelab mission
[BMFT-FB-W-83-022] 10 p1527 N84-20001
REUTOVA, N. P.
Producing thermomagnetic alloy by powder metallurgy
[BLL-M-35668-(5828.4)] 22 p3553 N84-32500
REVELETTE, W. R.
Effect of inspiratory muscle fatigue on perception of added loads in humans 10 p1548 N84-20150
REVENAUGH, J.
Measurements, in vivo, of parameters of the dopamine system
[DE83-017964] 03 p0414 N84-12709
REVILL, G. W.
Improving the fatigue performance of thick aluminum alloy bolted joints by hole cold-expansion and the use of interference-fit steel bushes
[ARL-STRUC-NOTE-486] 04 p0543 N84-13578
REVZAN, K. L.
Control of respirable particles and radon progeny with portable air cleaners
[DE84-013878] 23 p3812 N84-34170
REWICK, R. T.
Studies of Electron-Beam-Induced decomposition of benzene
[AD-A137241] 10 p1454 N84-19496
REY, J. A.
Towards the functional partitioning of highly integrated, fault tolerant avionics signal processors
06 p0770 N84-15047
REY, J. M.
Information sources and services in astronomy, astrophysics, and related space sciences
05 p0762 N84-14998
REYHNER, T. A.
Three-dimensional transonic potential flow about complex 3-dimensional configurations
[NASA-CR-3814] 19 p2958 N84-28749
REYMAN, A. M.
Demonstration of gas bubbles in canine pulmonary artery and aorta by means of ultrasonic echography with intravenous air infusion 02 p0261 N84-11708
Ultrasonography of canine soft tissues during decompression 20 p3254 N84-30653
REYMER, N. D.
Texture effect on anisotropy of electric and magnetic properties of titanium alpha-alloys
23 p3708 N84-33506
REYNA, E.
Preliminary evaluation of Thematic Mapper image data quality 20 p3214 N84-30415
REYNARD, W. D.
Incident reporting: Its role in aviation safety and the acquisition of human error data
06 p0775 N84-15081
REYNAUD, A. H.
Canadian Attitude Sensing Experimental Package (CASEP) 08 p1110 N84-17223
REYNOLDS, G. F.
Nuclear magnetic resonance studies of molten salts
[AD-A141751] 19 p2988 N84-28935
REYNOLDS, G. O.
Use of holographic linear Fringe Linearization Interferometry (FLI) for detection of defects
[AD-A129323] 01 p0083 N84-10543
Holographic FLI (Fringe Linearization Interferometry) for detection of defects
[AD-A135663] 09 p1318 N84-18612
Holographic FLI for detection of defects
[AD-A142733] 20 p3189 N84-30258
REYNOLDS, H. M.
Kevlar-49/epoxy case skirt structural fatigue strength
20 p3143 N84-29955
REYNOLDS, J. F.
Mobilization and defense management technical reports series. Management implications of industrial support capabilities for Space Shuttle operations
[AD-A137460] 10 p1438 N84-19390
REYNOLDS, J. W.
The Marshall Space Flight Center Low-Energy Ion Facility: A preliminary report
[NASA-TM-82559] 04 p0596 N84-13933
REYNOLDS, L. D.
Development of holographic interferometry for welding arc analysis
[DE84-005454] 13 p1994 N84-22940
REYNOLDS, M.
Ocean Color Working Group report to ESA Observation Advisory Committee
[ESA-BR-20] 23 p3785 N84-34003
REYNOLDS, M. L.
Some considerations of the operations of optical imaging space sensors derived from the experience of the metric camera project 23 p3764 N84-33860
REYNOLDS, P. A.
Command flight path display, phase 1 and 2
[AD-A140870] 17 p2611 N84-26711
REYNOLDS, P. J.
Chemical application of diffusion quantum Monte Carlo 10 p1560 N84-20218
Achieving chemical accuracy by quantum Monte Carlo
[DE84-005175] 11 p1746 N84-21392
Chemical application of diffusion quantum Monte Carlo
[DE84-005173] 11 p1746 N84-21393
REYNOLDS, R.
Executive summary, aerothermal modeling program, phase 1
[NASA-CR-174602] 03 p0348 N84-12263
Aerothermal modeling program, phase 1
[NASA-CR-168243-VOL-1] 03 p0348 N84-12264
Aerothermal modeling program, phase 1
[NASA-CR-168243-VOL-2] 03 p0348 N84-12265
REYNOLDS, R. L.
Paleomagnetic studies in Antarctica
14 p2162 N84-23950
REYNOLDS, R. M.
Bering Air-Sea-Ice Study (BASICS), February and March, 1981
[PB84-196161] 22 p3615 N84-32903
REYNOLDS, R. T.
Geologic studies of outer solar system satellites: Iapetus and Europa 13 p2075 N84-23448
REYNOLDS, W. C.
Improved turbulence models based on large eddy simulation of homogeneous, incompressible turbulent flows
[NASA-CR-166541] 08 p1156 N84-17526
REYNOLDS, W. T., JR.
Barriers to the migration of interphase boundaries
[AD-A137902] 11 p1633 N84-20679
REYX, C.
Robotisation of dye penetrant inspection: A study of a prototype and its development
[BLL-RISLEY-TRANS-4585-(9091.9)]
22 p3606 N84-32847
REZAIEEPAJAND, M.
Elasto-plastic analysis of plane stress problems using uniaxial symmetric Tresca yield surface and kinematic hardening 01 p0093 N84-10606
REZEK, T. W.
Preliminary experience with a stereoscopic video system in a remotely piloted aircraft application
[NASA-TM-84909] 13 p1931 N84-22557
REZNICK, S. G.
Axisymmetric thrust augmenting ejector with discrete primary air slot nozzles
[AD-D011129] 22 p3536 N84-32386
REZNIK, G. M.
Generalized spectra of slightly nonlinear Rossby waves 17 p2698 N84-27187
REZNITSKIY, M. Y.
Effect of electron irradiation on relaxation of tension in aluminum and aluminum alloys
12 p1784 N84-21639
REZUS, A.
Abstract automath
[MATH-CENTRE-TRACTS-160]
08 p1217 N84-17938
RHAUG, T.
The research of National Defence's (FOA) future policy document on space technology
[FOA-A-30034-E1] 15 p2265 N84-24602
RHEA, J. O.
SCPP (Sierra Cooperative Pilot Project) forecasting support, volume 1
[PB84-107911] 08 p1194 N84-17782
RHEE, K. T.
Study of particulate formation and radiant heat loss in direct injection-type diesel engines
[PB84-160100] 15 p2344 N84-25073
RHEE, M. J.
Charge state resolved energy spectra of He, N, Ar, and Ne ions 10 p1582 N84-20366
Study of electron beam production by a plasma focus
10 p1582 N84-20367
RHEIN, R. A.
Thermally stable elastomers: A review
[AD-A137914] 11 p1638 N84-20707
RHEINBOLDT, W. C.
Solution manifolds and submanifolds of parametrized equations and their discretization errors
[AD-A130186] 01 p0131 N84-10857
A survey of solution techniques for nonlinear finite element equations
[NLR-MP-82027-U] 06 p0903 N84-15861

Error estimates for non-linear finite element computations
[AD-A141404] 19 p3084 N84-29571
Error estimations and adaptive techniques for nonlinearized parametrized equations
[AD-A142041] 19 p3088 N84-29607

RHINE, W. E.
Method for the particle size independent spectrometric determination of metal particles in lubricating oils and hydraulic fluids
[AD-D011121] 22 p3545 N84-32445

RHINES, P.
Waves and circulation driven by oscillatory winds in an idealized ocean basin
[AD-P002650] 11 p1689 N84-21015

RHODE, D. L.
Rotordynamic forces developed by labyrinth seals
[AD-A136217] 09 p1316 N84-18599

RHODERICK, J. E.
Petrographic examination of Bell Canyon Tests (BCT) 1-FF field grouts over a 3-year period
[DE83-018226] 04 p0555 N84-13654

RHODES, C.
Nighttime observations of thunderstorm electrical activity from a high altitude airplane
[NASA-TM-86455] 21 p3405 N84-31597

RHODES, C. G.
Processing and properties of airframe materials
[AD-A140832] 17 p2624 N84-26797

RHODES, C. K.
Studies of collisional and nonlinear radiative processes for development of coherent UV and XUV sources
[AD-A131837] 03 p0379 N84-12467

RHODES, D. D.
Temporal and spatial distribution of exhumed topography 13 p2087 N84-23517

RHODES, E. J., JR.
The analysis of solar models: Neutrinos and oscillations
[NASA-CR-173626] 17 p2780 N84-27652

RHODES, M. D.
Concepts for improving the damage tolerance of composite compression panels
[NASA-TM-85748] 09 p1329 N84-18678
A manned-machine space station construction concept
[NASA-TM-85782] 10 p1439 N84-19395
Construction concept for erecting an offset-fed antenna
[NASA-TM-85774] 11 p1623 N84-20626

RIAZUELO, S.
Auxiliary power units for wide-body aircraft 03 p0334 N84-12174

RIBADEAU-DUMAS, C.
Exploration of arterial function using Doppler flow determination. Application to aeronautical and space medicine 11 p1700 N84-21091

RIBAKO, S. I.
Microtopography of micro-diamonds from sedimentary covers in the southwestern part of the Eastern European platform and a possible genetic interpretation
[CSIR-TRANS-1726] 21 p3443 N84-31842

RIBEIRO, M. D. G.
Daily variations of temperature and humidity within and above Amazonian forest
[INPE-3196-PRE/560] 21 p3447 N84-31869
Observations of radiation exchange above and below Amazonian forest
[INPE-3194-PRE/558] 21 p3447 N84-31870

RIBEIRO, M. L.
SIRIUS: Bibliographic search and retrieval system
[INPE-2771-PRE/344] 15 p2417 N84-25512

RIBES, A.
Metallurgical aspects and mechanical properties of weld metal in automatic submerged arc welding
[BLL-RISLEY-TR-4875-(9091.9F)] 09 p1324 N84-18650

RIBOUD, P. V.
Metallurgical aspects and mechanical properties of weld metal in automatic submerged arc welding
[BLL-RISLEY-TR-4875-(9091.9F)] 09 p1324 N84-18650

RICARD, A.
The role of metastables in reactive plasmas
[LP-206] 19 p3109 N84-29756

RICARD, M.
Experimental investigation of the effect of electrets on bone healing 23 p3809 N84-34150

RICCA, A. M.
Microwave detection of surface and volume moisture in building walls and related structures
[CISE-2111] 16 p2481 N84-25912

RICCIARDELLI, J.
A magnetically suspended linearly driven cryogenic refrigerator 06 p0820 N84-15345

RICCITIELLO, S. R.
Advanced leading edge thermal-structure concept. Direct bond reusable surface insulation to a composite structure
[NASA-TM-85941] 14 p2113 N84-23665

RICCO, A. J.
Characterization of p-type CdTe electrodes in acetonitrile/electrolyte solutions. Nearly ideal behavior from reductive surface pretreatments
[AD-A130764] 01 p0071 N84-10466
X-ray photoelectron and Auger electron spectroscopic study of the CdTe surface resulting from various surface pretreatments: Correlations of photoelectrochemical and capacitance-potential behavior with surface chemical composition
[AD-A138601] 13 p1956 N84-22714

RICCOMINI, C.
A comparative study of different products of sensor systems applied in a lithologic-structural analysis of the Quadrilatero Ferrifero area, Minas Gerais
[INPE-3210-TDL/174] 23 p3764 N84-33856

RICE, C. K.
Oak Ridge heat-pump models. Part 1. A steady-state computer design model for air-to-air heat pumps
[DE84-001577] 04 p0535 N84-13519

RICE, D. P.
Investigation of radiometric properties of the LANDSAT-4 multispectral scanner
[E84-10013] 02 p0236 N84-11551
Understanding and utilization of Thematic Mapper and other remotely sensed data for vegetation monitoring
[E84-10150] 16 p2508 N84-26098

RICE, D. R.
Investigation of radiometric properties of LANDSAT-4 MSS 20 p3211 N84-30403

RICE, G. W.
Atmospheric-pressure argon afterglows as a detector for gas chromatography
[DE83-017695] 03 p0351 N84-12282

RICE, J. E.
High resolution X-ray spectra of H- and He-like argon from the Alcator C Tokamak 11 p1735 N84-21321

RICE, K. M.
Signal processing in high data rate environments. Design tradeoffs in the exploitation of parallel architectures and fast system clock rates. An overview 09 p1401 N84-19151

RICE, P. L.
Modification of the Propagation Measurement File (PMF)
[PB84-169796] 17 p2655 N84-26980

RICE, R. F.
The development of efficient coding for an electronic mail system
[NASA-CR-173201] 07 p0992 N84-16429

RICE, R. R.
Space station energy sizing 03 p0344 N84-12233
The Boeing flywheel study 03 p0344 N84-12235

RICE, S. L.
Investigation of role of subsurface zones in wear of materials
[DE84-012752] 21 p3368 N84-31365

RICE, S. O.
Computation of counting distributions arising from a single-stage multiplicative process
[AD-A131480] 01 p0072 N84-10471

RICE, W. A.
Geostatistics software user's manual for the Geosciences Research and Engineering Department PDP 11/70 computer
[DE84-004149] 09 p1369 N84-18940

RICE, W. J.
Multicomponent velocity measurement in a pison-cylinder configuration using laser velocimetry
[NASA-TM-83534] 05 p0627 N84-14121
Development of an instrument for real-time computation of indicated mean effective pressure
[NASA-TP-2238] 07 p0997 N84-16461
Real time pressure signal system for a rotary engine
[NASA-CASE-LEW-13622-1] 13 p1931 N84-22559

RICH, B. A.
Multibus Avionic Architecture Design Study (MAADS)
[AD-A138226] 12 p1770 N84-21546

RICH, F. J.
Preliminary data processing plan for the thermal plasma experiment on the HILAT satellite
[AD-A132017] 03 p0340 N84-12209
Trapped-proton energy spectrum determination (M0002-1) 15 p2276 N84-24663
Ionospheric characteristics: A review
[AD-P002101] 16 p2521 N84-26187

RICH, J. W.
CO2 gamma 3 fundamental band 4.5 micrometers laser potential
[AD-A142536] 20 p3148 N84-29991

RICHARD, H. L.
Multispectral linear array multiband selection device
[NASA-CASE-GSC-12911-1] 15 p2335 N84-25016

RICHARD, R.
Residual shale-oil/diesel-engine operating compatibility program
[DE84-000133] 04 p0545 N84-13587

RICHARDS, C.
The transfer function model: A computer program for determination of jet engine test cell exhaust particulates and opacity
[AD-A139222] 14 p2173 N84-24017

RICHARDS, C. W.
Carrier recovery methods for a dual-mode modem: A design approach
[NASA-CR-173355] 10 p1432 N84-19360

RICHARDS, D. R.
Forced convection heat transfer to air/water vapor mixtures
[NASA-CR-3769] 07 p1000 N84-16488

RICHARDS, F. A.
European Scientific Notes. Volume 37, number 9
[AD-A133558] 06 p0935 N84-16079

RICHARDS, J. F.
Development of a data base for carbon dioxide releases resulting from conversion of land to agricultural uses
[DE83-015728] 03 p0402 N84-12626

RICHARDS, J. M.
Computer-Aided Design and Evaluation Techniques (CADET)
[AD-A130146] 01 p0121 N84-10784

RICHARDS, K. J.
Benthic boundary layer - IOS modelling programme
[IOS-162] 07 p1074 N84-16983

RICHARDS, L.
Prototype development of an information-sharing and decision support system for the manpower personnel and training community
[AD-P003310] 18 p2909 N84-28451

RICHARDS, L. W.
Characterization of reactants, reaction mechanisms and reaction products leading to extreme acid rain and acid aerosol conditions in southern California
[PB83-252825] 04 p0561 N84-13697

RICHARDS, M. A.
Lower mantle heterogeneity, dynamic topography and the geoid
[NASA-CR-173621] 16 p2521 N84-26184

RICHARDS, M. E.
The Consolidated Space Operations Center (CSOC) communications acquisition
[AD-P002154] 14 p2138 N84-23819

RICHARDS, P. L.
Vibrational spectroscopy of chemisorbed molecules by infrared emission
[DE84-000956] 04 p0602 N84-13973
Vibrational spectra of CO on Ni(100) studied by infrared emission spectroscopy
[DE84-009246] 21 p3362 N84-31327
Far infrared optical properties of WbSe3
[DE84-009223] 21 p3498 N84-32173

RICHARDS, S.
Motor performance in irradiated rats as a function of radiation source, dose, and time since exposure
[AD-A141209] 18 p2894 N84-28363

RICHARDS, T. E.
Water resources data for Illinois, water year 1982. Volume 1: Illinois except Illinois River Basin
[PB84-120112] 09 p1338 N84-18738
Water resources data for Illinois, water year 1982. Volume 2: Illinois River Basin
[PB84-120120] 09 p1338 N84-18739

RICHARDS, T. L.
Acoustic-to-Seismic coupling over porous ground surfaces
[AD-A138753] 13 p2011 N84-23046

RICHARDS, W. B.
The infinite line pressure probe
[NASA-TM-83582] 10 p1498 N84-19787

RICHARDSON, D. D.
Railgun plasma armature characterisation experiments
[MRL-R-928] 24 p3965 N84-35104

RICHARDSON, D. F.
Predicted and flight test results of the performance, stability and control of the space shuttle from reentry to landing 01 p0022 N84-10136

RICHARDSON, D. J.
Atlas of high resolution infrared spectra of carbon dioxide
[NASA-TM-85764] 10 p1576 N84-20325

RICHARDSON, G.
Meteor scatter communication in an air-ground environment
[RAE-TM-RAD-NAV-224] 09 p1298 N84-18484

Meteor scatter communication in an air-ground environment
[AD-A135689] 09 p1301 N84-18506
Evaluation of LANDSAT-D Thematic Mapper performance as applied to hydrocarbon exploration
[E84-10154] 19 p3038 N84-29275
RICHARDSON, J. A.
Airborne Intelligent Display (AID) phase 1 software development
[ATC-123] 04 p0484 N84-13181
RICHARDSON, J. C.
Heterogeneous diffusion flame stabilization: Constant density results 13 p1952 N84-22689
RICHARDSON, J. D.
Transport and radiative processes in the Io plasma torus 05 p0749 N84-14916
RICHARDSON, J. I.
Tubing and cable cutting tool
[NASA-CASE-LAR-12786-1] 18 p2848 N84-28085
RICHARDSON, J. J.
Artificial intelligence: An analysis of potential applications to training, performance measurement, and job performance aiding
[AD-A133592] 06 p0900 N84-15839
On-line task analyses in maintenance simulation
[AD-P003452] 21 p3509 N84-32229
RICHARDSON, N. R.
Advanced turbocharger design study program
[NASA-CR-174633] 12 p1822 N84-21879
RICHARDSON, R. L.
A new technique for measuring metal surface properties at the Rayleigh critical angle
[DE84-001770] 08 p1172 N84-17632
RICHARDSON, R. W.
Magnetic fluorescent lamp
[DE84-014231] 22 p3590 N84-32740
RICHARDSON, W. E.
Formal techniques in the management of software design
[AD-A132569] 04 p0579 N84-13818
RICHARDSON, W. L.
Dynamic mass balance of PCB (polychlorinated biphenyls) and suspended solids in Saginaw Bay: A case study
[PB83-250308] 04 p0561 N84-13699
RICHER, F.
Adaptive noise cancellation in neuromagnetic measurement systems
[AD-A132547] 05 p0684 N84-14494
Neuromagnetic localization of two components of the transient visual evoked response to patterned stimulation
[AD-A132546] 05 p0712 N84-14667
Magnetoencephalography
[AD-A132496] 05 p0712 N84-14668
RICHES, M. R.
CO/sub 2 climate research plan
[DE84-005461] 11 p1688 N84-21008
RICHEY, A.
Automotive Stirling engine development program
[NASA-CR-168205] 08 p1242 N84-18117
Automotive Stirling engine development program
[NASA-CR-174622] 21 p3521 N84-32305
RICHLEN, S. L.
Available energy method for evaluating thermodynamic performance of heat pump systems
[DE84-005188] 10 p1494 N84-19766
RICHMAN, H.
Kinetics of complexation of the macrocycles 18C6 and 12C4 ethers with LiAsF-6 in 1,2-dimethoxyethane at 25 deg C
[AD-A143086] 21 p3359 N84-31304
RICHMAN, M. S.
Teach Ada (trademark) as the student's first programming language?
[AD-P003422] 20 p3270 N84-30754
RICHMOND, R. D.
The rocket-triggered lightning investigation
[AD-A131409] 02 p0249 N84-11631
RICHTER-MENGE, J. A.
Mechanical properties of multi-year sea ice. Phase 1: Test results
[AD-A144132] 24 p3935 N84-34907
RICHTER, A.
Development of a process controlled pressline of enhanced technology for the production of sheet metal parts for the aircraft industry by a high pressure rubber pad system
[BMFT-FB-W-83-006] 05 p0626 N84-14116
A system for measuring fluxes of trace gases to and from soil and vegetation with a chamber technique
[CM-61] 07 p1028 N84-16662
RICHTER, A. K.
The ISPM energetic panel particle composition experiment 09 p1261 N84-18233
RICHTER, B.
Reports on cartography and geodesy. Series 2: Translations, number 41. Report on high precision gravimetry, volume 2
[ISSN-0469-4244] 19 p3043 N84-29306
RICHTER, B. E.
Separation as asphaltenes using high-resolution supercritical-fluid chromatography 01 p0038 N84-10240
RICHTER, D.
Increase of the electric power characteristic number in industrial power stations. Adaptation of Power-Heat Coupling (PHC) to a new consumption structure 23 p3791 N84-34047
RICHTER, D. D.
Effects of acid precipitation and natural processes on cation leaching from 4 diverse forest ecosystems
[DE83-015759] 01 p0103 N84-10671
RICHTER, G.
The neutron induced embrittlement of reactor pressure vessel steels and ferritic alloys
[AD-B080746] 15 p2295 N84-24770
RICHTER, G. P.
Comparison of icing cloud instruments for 1982-1983 icing season flight program
[NASA-TM-83569] 20 p3129 N84-29870
RICHTER, G. W.
Light deflection and time delay in the solar gravitational field 05 p0746 N84-14900
RICHTER, H.
Effect of contact damage on the strength of ceramic materials
[AD-A133746] 05 p0658 N84-14327
Stress corrosion of ceramic materials
[AD-A136729] 10 p1467 N84-19581
RICHTER, J. C.
Accomplishments of the NASA Johnson Space Center portion of the soil moisture project in fiscal year 1981
[E84-10090] 10 p1521 N84-19961
RICHTER, J. H.
Tropospheric propagation assessment 15 p2326 N84-24965
RICHTER, P. H.
Land Mobile Satellite Service (LMSS) channel simulator: An end-to-end hardware simulation and study of the LMSS communications links
[NASA-CR-173744] 18 p2828 N84-27956
RICHTER, R.
Thermal energy storage evaluation and life testing
[NASA-CR-174464] 01 p0102 N84-10660
RICHTOL, H. H.
Transient photochemistry of neutral red
[AD-A131564] 18 p2810 N84-27839
RICKELY, E. J.
Noise measurement flight test: Data-analyses Aerospatiale SA-365N Dauphin 2 helicopter
[AD-A143229] 22 p3652 N84-33151
RICKENBAUGH, D. E.
Development of GAP-TAGN-PEG propellants. Part 1: Study of ingredients 20 p3143 N84-29954
RICKER, G. R.
A mercuric detector system for X-ray astronomy. 2. Results from flight tests of a balloon borne instrument
[NASA-CR-175329] 06 p0938 N84-16095
RICKER, R. E.
Corrosion fatigue of an Al-Zn-Mg alloy and an Al-Mg-Li alloy 21 p3364 N84-31339
RICKERT, H.
Physico-chemical studies on copper sulfide. The CdS-Cu2S solar cell
[BMFT-FB-T-84-065] 19 p2990 N84-28947
RICKETS, R. H.
Subsonic and transonic unsteady- and steady-pressure measurements on a rectangular supercritical wing oscillated in pitch
[NASA-TM-85765] 22 p3530 N84-32348
RICKETSON, D. S., JR.
Lessons learned from FY82 US Army aviation mishaps
[AD-A131725] 03 p0328 N84-12137
Investigation, reporting and analysis of US Army aircraft accident 06 p0775 N84-15077
RICKETT, B. J.
Solar cycle evolution of the solar wind in three dimensions 03 p0469 N84-13090
RICKETTS, C. I.
High-efficiency particulate air filter behavior at high-speed flows
[DE84-014137] 22 p3595 N84-32769
RICKETTS, R. H.
Measured transonic unsteady pressures on an energy efficient transport wing with oscillating control surfaces 18 p2783 N84-27663
RICKLEY, E. J.
Noise measurement flight test: Data/Analyses Bell 222 twin jet helicopter
[AD-A139906] 15 p2404 N84-25430
RICKMAN, S.
On the order of quasiregular mappings 04 p0576 N84-13793
RICKMANN
Noise emission by helicopters 03 p0457 N84-13007
RICO, C. M.
Development situation for guiding systems 18 p2797 N84-27747
Development of simulators for guiding systems 18 p2797 N84-27750
RIDD, M. K.
Land use inventory of Salt Lake County, Utah from color infrared aerial photography 1982
[E84-10015] 02 p0237 N84-11553
Riparian habitat on the Humboldt River, Deeth to Elko, Nevada
[E84-10116] 14 p2167 N84-23976
Enviropod handbook: A guide to preparation and use of the Environmental Protection Agency's light-weight aerial camera system
[E84-10123] 14 p2168 N84-23982
EPA Enviropod. A summary of the use of the Enviropod under a Memorandum of Understanding among EPA Region 8, the State of Utah, and the University of Utah Research Institute
[E84-10124] 14 p2168 N84-23983
RIDDELL, J. D.
Electron charging and SGEMP (System Generated Electromagnetic Pulse) studies on satellite dielectrics
[AD-A143012] 21 p3353 N84-31268
RIDDER, H.
Oligomerization and butenolysis of olefins by metathesis: Contributions to a chemical use of industrial C4-olefins
[BMFT-FB-T-83-184] 10 p1457 N84-19518
RIDDLE, A. C.
Accuracy of vertical velocity determination 17 p2687 N84-27112
Techniques for studying gravity waves and turbulence: Vertical wind speed power spectra from the troposphere and stratosphere obtained under light wind conditions 17 p2688 N84-27120
Parameterization of spectrum 17 p2696 N84-27172
RIDDLE, E. P.
LaRC local area networks to support distributed computing 22 p3673 N84-33281
RIDDLE, J. R.
Increase in whole-body peripheral vascular resistance during three hours of air or oxygen prebreathing
[NASA-TM-58261] 20 p3259 N84-30684
RIDDLE, S. P.
Combustion of agglomerates formed by carbon slurry fuels
[AD-A136390] 09 p1278 N84-18345
RIDER, G. C.
A long range propagation experiment to investigate the incidence of anomalous propagation in the north Atlantic 06 p0871 N84-15669
RIDGE, D. V.
Diagnosis of the comma cloud of 10 April 1979, abridged report
[AD-A130649] 01 p0108 N84-10701
RIDGELY, D. B.
Design and robustness analysis of reduced order controllers for large flexible space vehicles 15 p2269 N84-24623
RIEBE, G. D.
Aerodynamic characteristics, including effect of body shape, of a Mach 6 aircraft concept
[NASA-TP-2235] 04 p0481 N84-13164
RIEDEL, H.
On the evaluation of boundary layer measurements on boattailed bodies of revolution in axisymmetric compressible subsonic flow
[DFVLR-FB-84-09] 18 p2837 N84-28010
RIEDHAMMER, M.
Development of a multilayer process based on the down draft principle for the sintering of iron ore
[BMFT-FB-T-83-065] 02 p0197 N84-11282
RIEDL, J.
Quantitative measurement of rainfall rate, theoretical basis 18 p2886 N84-28317
Practical measurement of rainfall rate by radar 18 p2886 N84-28318
RIEDLER, W. K.
Plasma processes in the region of electron beam injection from a high altitude payload 05 p0637 N84-14194
Modeling of beam-plasma discharge in the laboratory 05 p0638 N84-14200

Plasma processes caused by an electron beam injected from a high altitude rocket probe. Part 2: Studies of beam-plasma discharge
[IWF-8303] 17 p2728 N84-27364
The magnetic field experiment for the Venus-Halley (VEGA) mission
[IWF-8301] 17 p2777 N84-27633

RIEGEL, P. S.
Carbon dioxide sensor technology
[AD-A133688] 05 p0716 N84-14690

RIEGER, E.
Colored bubbles: An experiment for triggering equatorial spread F 05 p0640 N84-14212

RIEGLE, N. N.
Improving system affordability
[AD-A142387] 20 p3318 N84-31062

RIEK, M. M.
Water resources data for Nevada, water year 1982
[PB84-120365] 09 p1340 N84-18755

RIEKER, A.
Electrochemistry of anilines. 2: Oxidation to dications, electrochemical and UV/VIS spectroelectrochemical investigation
[AD-A136949] 10 p1454 N84-19498

RIEKER, L. L.
Design considerations for a 10-kW integrated hydrogen-oxygen regenerative fuel cell system
[NASA-TM-83664] 13 p2008 N84-23023

RIEL, F. D.
Space station needs, attributes, and architectural options: Mission requirements
[NASA-CR-173693] 18 p2604 N84-27794

RIEMAN, A.
Review of ionospheric VLF and ELF generation 05 p0634 N84-14174

RIEMENSCHNEIDER, S.
Convergence of bivariate cardinal interpolation
[AD-A142894] 21 p3472 N84-32006

RIEMER, H. G.
A program system for computer assisted acquisition and analysis of classification maps in land association 07 p1019 N84-16611

RIENECKER, M. M.
Hydrographic data from the OPTOMA (Ocean Prediction Through Observations, Modeling and Analysis) program OPTOMA2, legs I and II, 31 July - 14 August, 1982
[AD-A141547] 19 p3061 N84-29424
Hydrographic data from the OPTOMA (Ocean Prediction Through Obsservations, Modeling and Analysis) program: OPTOMA1, 8 to 13 March 1982
[AD-A141666] 19 p3061 N84-29425

RIENSTRA, S. W.
Acoustic radiation from a semiinfinite annular duct in a uniform subsonic mean flow
[NLR-MP-82045-U] 09 p1387 N84-19059

RIEPPO, R.
Absolute photopeak efficiency values for an intrinsic well-type Ge detector in the gamma ray region 0.1 to 3.0 MeV
[REPT-2(1984)] 18 p2900 N84-28398

RIEWE, A. A., JR.
Investigation and rehabilitation to extend service life of DSS-13 antenna concrete foundation 22 p3574 N84-32637

RIFKIN, R.
Jam-resistant speech encoding
[AD-A134707] 08 p1145 N84-17448

RIGAUT, B.
Design of an abrasion test under high stress. Application to the characterization of manganese steel quality assurance
[CETIM-12-D-081] 21 p3415 N84-31659

RIGBY, D.
Small-angle X-ray scattering study of micelle formation in mixtures of butadiene homopolymer and styrene-butadiene block copolymer
[AD-A133645] 05 p0659 N84-14330

RIGDON, G. G.
Zones
[PB84-174325] 20 p3248 N84-30616
Automated analysis of upper air soundings to specify precipitation type
[PB84-174333] 20 p3248 N84-30617
WARN: A warning formatter
[PB84-204551] 21 p3467 N84-31985

RIGGIN, R. M.
Turbine engine exhaust hydrocarbon analysis, tasks 1 and 2
[AD-A131522] 01 p0012 N84-10074
Literature review on occurence and methodology for determination of nickel, chromium, manganese and arsenic species in air
[PB84-172105] 16 p2463 N84-25788
Analysis of polynuclear aromatic hydrocarbons in particulate matter by luminescence techniques
[PB84-181882] 21 p3363 N84-31333

RIGGS, K. E.
Diffuser/ejector system for a very high vacuum environment
[NASA-CASE-MRS-25791-1] 18 p2797 N84-27749

RIJKEN, D. C.
Fibrinogen, plasminogen and tissue-type plasminogen activator: Their role in the fibinolytic system 23 p3804 N84-34121

RIJKOORT, P. J.
A compound Weibull model for the description of surface wind velocity distributions
[KNMI-WR-83-13] 12 p1862 N84-22129
Wind climate of the Netherlands
[ISBN-90-12-04466-9] 14 p2178 N84-24045

RIJN, P. V.
An overview of productivity improvement efforts in Army organizations
[AD-A138589] 14 p2246 N84-24490

RIKS, E.
Some computational aspects of the stability analysis of nonlinear structures
[NLR-MP-82034-U] 20 p3204 N84-30351

RILEY, J. J.
Direct numerical simulation of reacting flows 11 p1611 N84-20549
Direct simulations of chemically reacting turbulent mixing layers
[NASA-CR-174640] 16 p2450 N84-25710

RILEY, J. P.
Measured ionospheric Doppler spreading of HF ground backscatter
[PB83-220764] 01 p0068 N84-10446
Frequency correlation of HF skywave ground backscatter Doppler spectra
[PB84-204353] 22 p3578 N84-32668
Statistics at HF skywave ground backscatter Doppler spectra
[PB84-204973] 22 p3578 N84-32669

RILEY, M. J.
Machined two-piece microwave waveguide
[AD-D011088] 22 p3587 N84-32715

RILEY, M. S.
Harmony theory: Problem solving, parallel cognitive models and thermal physics
[AD-A140877] 17 p2759 N84-27515

RILEY, P. A.
Decomposition of four ammonium nitrate propellants
[AD-A136916] 10 p1470 N84-19601

RIMBERT, S.
A textural image of Algiers 23 p3784 N84-33996

RIMER, M.
Body-freedom flutter of a 1/2-scale forward-swept-wing model, an experimental and analytical study
[NASA-CR-172324] 12 p1771 N84-21553

RIMER, N.
Numerical simulation of the velocity records from the SRI grout spheres experiment
[AD-A131267] 01 p0096 N84-10627

RIMOLDI, R.
Fast automatic reconnaissance in land observations images by means of analog and/or digital images 23 p3768 N84-33885

RINALDUCCI, E. J.
Low-level flight simulation: Vertical cues
[AD-A133612] 07 p1050 N84-16802
Visual cues in the simulation of low-level flight
[AD-A135461] 08 p1202 N84-17839
Static versus dynamic presentation of visual cues in simulated low level flight
[AD-P003360] 18 p2913 N84-28473
Visual cueing effectiveness: Comparison of perception and flying performance
[AD-P003458] 21 p3510 N84-32235

RIND, D.
Three dimensional global modeling of atmospheric CO2
[NASA-TM-85444] 12 p1847 N84-22043

RINEHART, E. A.
Pure rotational spectroscopy of SO2 using fix line far-infrared lasers
[DE84-001427] 07 p0972 N84-16301

RINEHART, W. A.
Catalog of seismogram archives (revised)
[PB84-127976] 10 p1537 N84-20074

RINGHOFER, C.
Implications of analytical investigations about the semiconductor equations on device modeling programs
[AD-A130549] 01 p0130 N84-10851
Computation of current-voltage-characteristics in a semiconductor device using arc-length continuation
[AD-A137919] 11 p1647 N84-20770
Numerical methods for transient semiconductor device modelling
[AD-A137970] 12 p1913 N84-22462
Analysis of an integration method for rapidly oscillating integrands
[AD-A141731] 19 p3087 N84-29598

RINGSHAUSER, H.
On-line preprocessing of gray scale images
[BMFT-FB-DV-83-004] 12 p1909 N84-22435

RINKER, G.
Electrical conductivity of an arbitrarily dense plasma
[DE84-008006] 14 p2230 N84-24374

RINKER, R. L.
The JILA (Joint Institute for Laboratory Astrophysics) portable absolute gravity apparatus
[AD-A132199] 05 p0684 N84-14495

RINNOOYKAN, A. H. G.
Scheduling theory since 1981: An annotated bibliography
[MC-BW-188/83] 07 p1068 N84-16934
A framework for the probabilistic analysis of hierarchial planning systems
[MC-BW-180/83] 13 p2037 N84-23216
New directions in scheduling theory
[CWI-OS-R8401] 17 p2761 N84-27535

RINO, C. L.
The anisotropy of high latitude nighttime F-region irregularities
[AD-A131215] 01 p0106 N84-10688
High-latitude and equatorial research support for predicting high-altitude nuclear effects
[AD-A131431] 02 p0249 N84-11630
The effects of naturally-occurring propagation disturbances on discrete focused arrays
[AD-A132645] 05 p0670 N84-14404
Propagation effects in satellite-borne synthetic aperture radars 06 p0867 N84-15650
Phenomenology of structured plasma in the ionosphere
[AD-A136396] 09 p1345 N84-18784
Propagation effects in satellite-based synthetic aperture radars
[AD-A138681] 13 p1983 N84-22873

RINSLAND, C. P.
Atlas of high resolution infrared spectra of carbon dioxide
[NASA-TM-85764] 10 p1576 N84-20325
Stratospheric NO and NO2 profiles at sunset from analysis of high-resolution balloon-borne infrared solar absorption spectra obtained at 33 deg N and calculations with a time-dependent photochemical model
[NASA-TM-86285] 20 p3240 N84-30566

RINTA, R. I.
Cryogenic testing of the TPC superconducting solenoid
[DE84-000528] 04 p0527 N84-13467
Forced two-phase cooling of the TPC superconducting solenoid
[DE83-017749] 04 p0613 N84-14049

RIORDAN, C. J.
Review of potential satellite techniques for mesoscale mapping of insolation
[DE83-011998] 03 p0401 N84-12622
Preliminary comparison of insolation measurements, forecasts, and estimates from satellite imagery
[DE84-004435] 18 p2883 N84-28293

RIORDAN, G. A.
Further abbreviation of the machining schedule for producing surface-damage-free beryllium
[DOE/TIC-4500-REV-69] 06 p0814 N84-15297
Component development
[DE84-005829] 11 p1634 N84-20681
Plasma behavior in vacuum coating using hot hollow cathode: A literature survey and proposal for experiment
[DE84-007907] 15 p2411 N84-25471
Quality engineering and control
[DE84-011603] 20 p3150 N84-30001

RIOS, M. T. B.
FORTH: An unconventional programming language
[INPE-2894-PRE/413] 04 p0578 N84-13813

RIOU, L.
Assessment of data handling configuration for on-board operation system definition
[DM55/JPS/JP/321.82] 19 p2982 N84-28898

RIPIN, B. H.
Creation of ultra-high-pressure shocks by the collision of laser-accelerated disks: Experiment and theory
[DE83-017366] 03 p0382 N84-12486
Observation of magnetic fields in laser-produced plasma using the Zeeman effect
[DE84-002742] 06 p0921 N84-15989
X-ray production in long-scale length laser-plasma interaction experiments
[DE84-002472] 07 p1076 N84-16997
Spectroscopic measurements of the Laser-HANE plasma
[AD-A138685] 13 p1995 N84-22947

Introduction to the Laser-HANE experiment and summary of low-pressure interaction results
[AD-A138945] 13 p1996 N84-22952
Optical imaging of a coupling region between inter-streaming plasmas
[AD-A139191] 14 p2224 N84-24348
Magnetic bubble formation produced by an expanding laser plasma
[AD-A139188] 14 p2228 N84-24359
Blast-wave analysis of high-pressure coupling shells
[AD-A139687] 15 p2350 N84-25108
NRC survey on plasma physics and fluids fusion plasma confinement and heating. Chapter 8: Inertial confinement fusion
[AD-A142302] 19 p3107 N84-29744

RIPKA, G.
Mean field theory of the linear sigma-model: Chiral solitons
[DE84-002864] 08 p1229 N84-18034

RIPKEN, H. W.
Minor constituents in the solar wind originating from plasma-dust interactions 03 p0474 N84-13116

RIPKEN, K.
Coherent management support in the Ada environment 05 p0724 N84-14748

RIPPEL, W.
Photovoltaic power conditioning subsystem: State of the art and development opportunities
[NASA-CR-173458] 12 p1842 N84-22009
Requirements for a transformerless power conditioning system
[NASA-CR-173742] 18 p2833 N84-27981

RIS, V. V.
Effect of rotation on thermal state of runner blade through effect on heat transfer on coolant side 13 p1970 N84-22787

RISBERG, S.
Nuclear explosion effects on telecommunication, etc. (effect of EMP and of ionizing radiation on electronics and optical electronics
[FOA-C-30302-A3] 08 p1146 N84-17458

RISBY, T. H.
Exhaust emissions from a diesel engine
[PB84-122910] 08 p1184 N84-17713

RISEN, W. M., JR.
Raman studies of CuTCNQ: Resonance Raman spectral observations and calculations for TCNQ ion-radicals
[AD-A130570] 01 p0037 N84-10231
Vibrational spectra of single and mixed alkali pentasilicate glasses
[AD-A130527] 01 p0049 N84-10318

RISING, J. J.
L-1011 testing with relaxed static stability 11 p1618 N84-20591
Development and flight evaluation of an augmented stability active controls concept with a small horizontal tail
[NASA-CR-165951] 19 p2967 N84-28805

RISLEY, M.
Airborne lightning characterization
[AD-A130627] 06 p0881 N84-15733

RISTENBATT, M.
Adaptive array combined with spread spectrum in communications 13 p1976 N84-22825

RISTOW, D.
Numerical modeling techniques according to the wave equation and the ray method
[BMFT-FB-T-83-136] 03 p0362 N84-12354

RITALDATO, D. J.
A user-oriented microprocessor shell command language interpreter
[AD-A136809] 10 p1563 N84-20242

RITCHEY, C. M.
Spectroscopy and kinetics of lead oxide chemiluminescence
[AD-A138250] 12 p1792 N84-21687

RITCHIE, D.
Experience in engine face, non-steady, flow measurements through a side and bottom engine air inlet duct 14 p2100 N84-23600

RITCHIE, E. H.
Astronautics and aeronautics, 1976. A chronology
[NASA-SP-4021] 15 p2431 N84-25602

RITCHIE, J. C.
A first evaluation of LANDSAT TM data to monitor suspended sediments in lakes 20 p3215 N84-30425

RITCHIE, R. H.
Attractive interaction between an atom and a surface
[DE84-003204] 19 p3103 N84-29712

RITCHIE, R. O.
Fatigue behavior of long and short cracks in wrought and powder aluminum alloys
[AD-A131324] 02 p0231 N84-11517
Fatigue-crack propagation in viscous environments
[DE83-011741] 02 p0232 N84-11520
Fatigue resistance and microstructure of experimental dual phase Fe/2Si/0.1C steel
[DE84-004314] 11 p1635 N84-20692
Fatigue behavior of long and short cracks in wrought and powder aluminum alloys
[AD-A142609] 20 p3153 N84-30024
Near-threshold fatigue crack propagation: A perspective on the role of crack closure
[DE84-009669] 20 p3180 N84-30202

RITCHIE, W.
Northeast Scotland coastal field guide and geographical essays
[AD-A134861] 08 p1178 N84-17674

RITTELMANN, P. R.
Survey of design tools for passive and hybrid low energy buildings 16 p2516 N84-26147

RITTENBERG, A.
Major detectors in elementary particle physics
[LBL-91-SUPPL] 06 p0910 N84-15910

RITTER, G. X.
The development of a mathematical foundation for cellular image processing
[AD-A142173] 19 p3042 N84-29301

RITTER, I. T.
Identification and estimation of the area planted with irrigated rice based on the visual interpretation of LANDSAT MSS data
[E84-10164] 17 p2710 N84-27256

RITTER, J. A.
The vertical redistribution of a pollutant tracer due to cumulus convection 13 p2013 N84-23057

RITTER, J. J.
Passive films, surface structure and stress corrosion and crevice corrosion susceptibility
[AD-A135549] 08 p1132 N84-17363

RITTER, M. W.
Intense positron beams: Linacs; preworkshop copy
[DE83-012941] 01 p0146 N84-10958

RITTERMAN, P. F.
Factors affecting nickel-oxide electrode capacity in nickel-hydrogen cells 23 p3739 N84-33699

RITTIG, F. R.
Increase of cold tolerance in cotton plant (Gossypium hirsutum L.) by mepiquat chloride
[E84-10088] 10 p1521 N84-19959

RITZWOLLER, M. H.
Investigation of antarctic crust and upper mantle using MAGSAT and other geophysical data
[E84-10055] 06 p0864 N84-15627

RIVA, G.
Nonlinear burning stability of solid propellants
[AD-A143573] 22 p3562 N84-32554

RIVAS, R. R.
SPF/DB primary structure for supersonic aircraft (T-38 horizontal stabilizer)
[NASA-CR-163114] 18 p2813 N84-27860

RIVENEZ, J.
Nondestructive testing of bonding by ultrasonic analysis: Preliminary study report proposed investigation program
[CETIM-13-V-010] 21 p3416 N84-31660
Application of measurements of the propagation velocity of ultrasonic Rayleigh waves to surface inspection of materials
[CETIM-15-H-417] 21 p3416 N84-31662
Optical density radiation dose relationship
[CETIM-100680] 21 p3497 N84-32162

RIVERA, T.
Fundamental research on explosives
[DE84-001201] 09 p1290 N84-18425

RIVEREAU, J. C.
SPOT potential applications: An overview of the results of the simulation campaigns 03 p0396 N84-12587
SPOT (French satellite) 08 p1175 N84-17652
Typical SPOT data and products: Potential applications 08 p1175 N84-17653

RIVERO, J.
Seasonal climate fluctuations as steady and periodic flow states of a barotropic model of planetary waves 10 p1542 N84-20108

RIVEST, R.
An application of number theory to the organization of raster-graphics memory
[AD-A140638] 17 p2758 N84-27508
Custom integrated circuits 22 p3684 N84-33361

RIVIERE, J. C.
Surface modification of some titanate minerals subjected to hydrothermal chemical attack
[AERE-R-10799] 01 p0039 N84-10249

RIVKIN, M. I.
Ceramic tube materials and processing development
[PB84-151653] 14 p2135 N84-23795

RIVLIN, R. S.
The status of the simple fluid 15 p2314 N84-24886

RIVLIN, V. G.
A critical assessment of thermodynamic data for the Ca-Mg system
[NPL-DMA(A)-73] 15 p2415 N84-25500

RIZK, M. A.
Effect of solid particles on the turbulent flow of a round gaseous jet: A mathematical and experimental study
[DE84-005830] 11 p1653 N84-20794

RIZK, Y. M.
Viscous computation of a space shuttle flow field
[NASA-TM-85977] 20 p3183 N84-30225

RIZOLS, C.
The role of the geoid in high precision geodesy and oceanography
[SER-A-96] 02 p0235 N84-11540

RIZZETTA, D. P.
Numerical solution of three-dimensional unsteady transonic flow over wings including inviscid/viscous interactions
[NASA-CR-166561] 11 p1600 N84-20478

RIZZI, A.
Numerical solutions of the Euler equations simulating vortex flows around wings 03 p0324 N84-12120
Explicit multistage finite volume procedure to solve the Euler equations for transonic flow 06 p0838 N84-15464
Vector coding the finite volume procedure for the CYBER 205 06 p0839 N84-15465

RIZZI, R.
On-line monitoring of the true corrosion rate in power plants
[CISE-2156] 16 p2465 N84-25796

ROACH, J. E.
A vector space approach to time-variant energy spectral analysis
[AD-A140196] 16 p2553 N84-26378

ROACHE, P. J.
Adaptive grid generation using elliptic generating equations with precise coordinate controls
[AD-A137006] 10 p1570 N84-20290

ROARK, L. M.
B-1B Avionics/Automatic test equipment: Maintenance queueing analysis
[AD-A141175] 18 p2795 N84-27736

ROAT, G. H.
Standardization in software conversion of (ROM) estimating 24 p3862 N84-34475

ROBACK, R.
Mass and momentum turbulent transport experiments with confined swirling coaxial jets
[NASA-CR-168252] 08 p1156 N84-17530
Mass and momentum transport experiments with swirling flow 11 p1610 N84-20541

ROBB, H. W.
Performance criteria for comparing constrained nonlinear programming codes
[CSIR-TWISK-279] 07 p1053 N84-16822

ROBB, J. D.
An experimental and theoretical investigation of an Nemp (nuclear electromagnetic pulse simulator) type fast rise lightning simulator
[AD-A141283] 18 p2890 N84-28346

ROBB, J. H.
Application of JOVIAL (J-73) to digital flight controls
[AD-P003525] 21 p3330 N84-31129

ROBBEN, F.
Density fluctuations in premixed turbulent flames
[DE84-012055] 21 p3361 N84-31322
Conditional velocity statistics in premixed CH-4-air and C-2H-4-air turbulent flames
[DE84-012257] 22 p3549 N84-32464

ROBBINS, C.
Application of NDE methods to green ceramics: Initial results
[DE84-006411] 14 p2130 N84-23769
Application of NDE methods to green ceramics: Initial results
[DE84-010571] 18 p2819 N84-27898

ROBBINS, C. L.
Model for illuminance on horizontal and vertical surfaces
[DE83-011973] 03 p0475 N84-13127
Graphical method for determining interflected daylight in clear climates
[DE83-011989] 03 p0475 N84-13128
Predicting energy savings attributed to daylighting 16 p2514 N84-26132
Sunlight probability data for select cities in the US
[DE84-000006] 20 p3247 N84-30605

ROBBINS, D. O.
Functional assessment of laser irradiation
[AD-A139490] 15 p2378 N84-25273
Functional assessment of laser irradiation
[AD-A139507] 15 p2378 N84-25274

ROBBINS, F. W.
Multi-dimensional, multiphase flow analysis of flamespreading in a stick propellant charge
13 p1948 N84-22663
Slotted stick propellant study
13 p1948 N84-22664
ROBBINS, K. D.
Use of digitized radar and microcomputers to forecast local floods and irrigation needs
[PB84-105568] 08 p1192 N84-17767
ROBBINS, L. L.
Positive displacement rotary compressor for vapor compression
[PB83-232744] 01 p0092 N84-10599
ROBBINS, V.
A test of electroluminescent panels for a helicopter emergency escape lighting system
[AD-A139478] 14 p2103 N84-23616
ROBE, R. Q.
Elements of an iceberg deterioration model
[AD-A133223] 07 p1041 N84-16749
ROBERGE, R.
Intergranular failures of Alloy 600 in high temperature caustic environments
[DE84-010890] 20 p3155 N84-30032
ROBERSON, C.
Research on intense electron beams and applications
[AD-A134068] 05 p0743 N84-14882
A Bumpy Torus betatron
[AD-A141840] 19 p3107 N84-29742
ROBERSON, C. W.
Numerical simulation of high energy light ion beam flow through a foilless diode
[AD-A131001] 02 p0289 N84-11892
A broadband high power millimeter to centimeter spectrometer
[AD-A131629] 02 p0294 N84-11927
Spectrum analyzer and analysis method for measuring power and wavelength of electromagnetic radiation
[AD-D011044] 19 p3027 N84-29198
ROBERSON, J.
Preliminary analysis of automatic speech recognition and synthesis technology
[AD-A138976] 13 p1983 N84-22877
ROBERT, A. C.
Space station needs, attributes, and architectural options: Technology development
[NASA-CR-173697] 18 p2803 N84-27789
ROBERT, G.
Aircraft operations from airfields with special unconventional characteristics 06 p0776 N84-15085
ROBERT, M. H.
Grain refinement of commercial aluminum by niobium and zirconium additions to the melt
15 p2307 N84-24841
ROBERT, P. C.
Evaluation of some remote sensing techniques for oil and crop management 02 p0234 N84-11538
ROBERTO, J. B.
Ion-beam surface analysis in plasma-edge studies
[DE84-001578] 04 p0607 N84-14004
The use of isotopically-enriched carbon probes for erosion deposition measurements in the ASDEX divertor
[DE84-012329] 20 p3307 N84-31006
Synergistic effects in plasma surface interactions
[DE84-012346] 22 p3660 N84-33199
ROBERTS, A. A.
Geochemical detection of prospective petroleum areas in Arctic regions 14 p2166 N84-23972
ROBERTS, A. S., JR.
Graduate engineering research participation in aeronautics
[NASA-CR-173849] 21 p3507 N84-32220
ROBERTS, B. B.
Plume base flow simulation technology
01 p0018 N84-10116
Space shuttle orbiter reaction control subsystem flight data anomalies 01 p0021 N84-10131
ROBERTS, B. W.
Creep properties of modified 9 Cr-1 Mo steel
[DE84-003174] 07 p0976 N84-16328
ROBERTS, C. A.
Upgraded aircraft accident recorder standards
17 p2586 N84-26574
ROBERTS, D.
Engineering evaluations and studies. Volume 1: Exhibit A
[NASA-CR-171724] 06 p0794 N84-15174
Engineering evaluations and studies. Volume 2: Exhibit B, part 1
[NASA-CR-171725] 06 p0794 N84-15175
Engineering evaluations and studies. Volume 2: Exhibit B, part 2
[NASA-CR-171726] 06 p0794 N84-15176
Engineering evaluations and studies. Volume 3: Exhibit C
[NASA-CR-171727] 06 p0794 N84-15177
ROBERTS, D. E.
The effects of dehydration on peripheral cooling
[AD-A130838] 06 p0887 N84-15767
Fluid replacement during hypothermia
[AD-A143807] 23 p3810 N84-34159
ROBERTS, D. H.
Radio astronomy 22 p3683 N84-33349
ROBERTS, D. K.
Development of theoretical models and analyses of the micro-physics of cloud and precipitation systems
[AD-A133557] 06 p0882 N84-15735
ROBERTS, E. O.
Crest: Crew escape technologies for the 1990's
20 p3141 N84-29944
ROBERTS, E. W.
Sliding electric contacts in space: Observations on existing technology and new trends in low-speed applications 09 p1294 N84-18455
ROBERTS, F. R.
Analysis and programming for research in the physics of the upper atmosphere
[AD-A144203] 24 p3919 N84-34811
ROBERTS, G. O.
Finite-difference fluid dynamics computer mathematical models for the design and interpretation of experiments for space flight
[NASA-TP-2323] 14 p2144 N84-23852
Analysis of electrophoresis performance
[NASA-CR-171034] 15 p2286 N84-24716
Three-dimensional computer model for the atmospheric general circulation experiment
[NASA-CR-171109] 21 p3446 N84-31863
Mathematical model for a simplified Bridgman-Stockbarger crystal growing system
[NASA-CR-171108] 21 p3504 N84-32202
Theoretical flow regime diagrams for the AGCE
24 p3923 N84-34831
ROBERTS, J.
Project management and quality assurance in a multiapplication environment 05 p0723 N84-14745
Daily variations of temperature and humidity within and above Amazonian forest
[INPE-3196-PRE/560] 21 p3447 N84-31869
Observations of radiation exchange above and below Amazonian forest
[INPE-3194-PRE/558] 21 p3447 N84-31870
ROBERTS, J. B. G.
Radar signal processing architectures and algorithms in digital VLSI (Very Large Scale Integration)
[PB84-140110] 11 p1645 N84-20756
Real time speech recognition on a distributed digital processing array
[AD-A139097] 14 p2139 N84-23826
ROBERTS, J. H.
Imaging of fast-neutron sources using solid-state track-recorder pinhole radiography
[DE84-001466] 05 p0685 N84-14504
ROBERTS, J. M.
Metallurgical characterization of Niobium/Tin superconducting multifilamentary wires
[AD-A131018] 01 p0044 N84-10281
ROBERTS, K. J.
The influence of lattice imperfections on the chemical reactivity of solids. The growth, perfection and defect properties of PETN (pentaerythritol tetranitrate) and RDX (cyclotrimethylene trinitramine) single crystals, part 1
[AD-A141271] 18 p2941 N84-28651
The influence of lattice imperfections on the chemical reactivity of solids. The growth, perfection and defect properties of PETN (pentaerythritol tetranitrate) and RDX (cyclotrimethylene trinitramine) single crystals, part 2
[AD-A141272] 18 p2941 N84-28652
ROBERTS, L.
On the structure of the turbulent vortex
03 p0321 N84-12102
ROBERTS, M.
Optimum control of electric motor drives for industrial robots
[DE84-012878] 21 p3395 N84-31543
ROBERTS, M. M.
High altitude aerodynamic tests with simulated heat-shield outgassing
[AD-A132078] 04 p0492 N84-13227
ROBERTS, M. P.
Estimation of uncertainty in coal resources
[DE83-902538] 03 p0401 N84-12620
ROBERTS, N. J. J.
Microwaves and human leukocyte function: Exposure of human mononuclear leukocytes to microwave energy pulse-modulated at 16 Hz or at 60 Hz
[AD-A141071] 19 p3065 N84-29443
ROBERTS, N. J., JR.
Microwaves, hyperthermia, and human leukocyte function
[PB83-225375] 01 p0115 N84-10746
ROBERTS, R. A.
Digital signal processing structures for VLSI
09 p1401 N84-19149
Efficient realizations in hardware implementations for digital signal processing
[AD-A139112] 14 p2202 N84-24218
ROBERTS, R. N.
Intercomparison of zinc freezing point cells and standard platinum resistance thermometers
[DE84-007440] 14 p2149 N84-23875
ROBERTS, T. G.
A voltmeter for remotely sensing high voltages
[AD-D011046] 19 p3027 N84-29199
Porous catalytic metal plate degeneration bed in a gas generator
[AD-D011078] 21 p3373 N84-31407
ROBERTS, T. W.
Computation of potential flows with embedded vortex rings and applications to helicopter rotor wakes
[NASA-CR-166542] 08 p1156 N84-17526
ROBERTS, W. B.
Secondary flow spanwise deviation model for the stators of NASA middle compressor stages
[NASA-CR-173360] 09 p1256 N84-18202
ROBERTS, W. E.
Influence of stress, weightlessness, and simulated weightlessness on differentiation of preosteoblasts
09 p1354 N84-18846
Sensitivity of bone cell populations to weightlessness and simulated weightlessness 23 p3809 N84-34151
ROBERTS, W. F.
Profs' Doppler radar data processing system. Part 1: Design and implementation with application to NEXRAD algorithms
[PB84-165224] 14 p2182 N84-24073
ROBERTSHAW, G. A.
Effective Earth radius for refraction of radio waves at altitudes above 1 km
[AD-A137095] 10 p1482 N84-19683
Range corrections for airborne radar - A joint STARS study
[AD-A142363] 20 p3174 N84-30154
ROBERTSON, D. E.
Compendium of selected methods for sampling and analysis at geothermal facilities
[PB84-199926] 22 p3565 N84-32579
ROBERTSON, D. K.
Analysis of lateral and torsional vibration characteristics of beams and shafts with end located rotational masses
[NASA-TM-84593] 17 p2679 N84-27085
ROBERTSON, F. R.
Determination of rainfall and condensational heating in the South Pacific convergence zone during FGGE SOP-1 24 p3925 N84-34843
Use of satellite data in a diagnostic parameterization of convective heating 24 p3925 N84-34844
Dynamics and energetics of the South Pacific convergence zone during FGGE SOP-1
24 p3926 N84-34850
Sensor studies and space flight opportunities
24 p3933 N84-34896
ROBERTSON, G. D., JR.
Electroding of multi-layered epitaxial structures
[AD-D011137] 22 p3661 N84-33209
ROBERTSON, J. B.
Effect of space exposure on pyroelectric infrared detectors (A0135) 15 p2278 N84-24679
ROBERTSON, K.
An instrument to monitor the tilt of large structures
[AD-A129598] 01 p0084 N84-10544
ROBERTSON, K. B.
Space telescope
[NASA-CR-170948] 06 p0938 N84-16097
ROBERTSON, R. C.
A study of magnetotelluric fields in laterally inhomogeneous Earth models 05 p0671 N84-14413
ROBERTSON, R. E.
Volume recovery in glasses: A free-volume diffusion process
[DE83-013771] 06 p0811 N84-15280
Evolution of integrated panel structural design and interfaces for PV power plants 22 p3584 N84-32701
ROBERTSON, S.
The detection of nonplanar surfaces in visual space
[AD-A138761] 14 p2185 N84-24093
ROBERTSON, S. J.
Manufacturing in space: Fluid dynamics numerical analysis
[NASA-CR-175401] 10 p1491 N84-19748

ROBERTSON, T.
A measure of the conformity of a parameter set to a trend: The partially ordered case
[AD-A131214] 02 p0265 N84-11866
ROBERTSON, T. D.
Research in space physics at the University of Iowa, 1982
[NASA-CR-175411] 11 p1754 N84-21447
ROBERTUS, R. J.
Methanol production by catalytic gasification of wood
[DE83-013744] 01 p0053 N84-10341
ROBEY, R. J.
Supercritical fluid regeneration of adsorbents
[PB83-207597] 01 p0058 N84-10377
ROBEY, S. W.
Direct determination of surface structures from photoelectron diffraction
[DE84-002572] 05 p0663 N84-14360
Angle-resolved photoemission extended fine structure
[DE84-002899] 08 p1236 N84-18080
ROBIDEAU, J. A.
Water resources data for New York, water year 1982. Volume 1: Eastern New York excluding Long Island
[PB84-114198] 09 p1339 N84-18744
ROBIN, A.
Balloon test project: Cosmic Ray Antimatter Calorimeter (CRAC)
[NASA-TM-77461] 23 p3750 N84-33772
ROBIN, G. D.
Polar glaciology 20 p3218 N84-30445
ROBIN, M. L.
Low temperature fluorination of aerosol suspensions of hydrocarbons utilizing elemental fluorine
[AD-A139958] 15 p2287 N84-24721
ROBINETTE, K. M.
Anthropometric and mass distribution characteristics of the adult female, revised
[AD-A143096] 21 p3457 N84-31939
ROBINS, A. W.
Development and analysis of a STOL supersonic cruise fighter concept
[NASA-TM-85777] 13 p1930 N84-22553
Application of near-term technology to a Mach 2.0 variable-sweep-wing, supersonic-cruise executive jet
[NASA-CR-172321] 14 p2104 N84-23621
ROBINSON-SABA, J. L.
Circinus X-1: A laboratory for studying the accretion phenomenon in compact binary X-ray sources
[NASA-TM-85095] 01 p0165 N84-11083
ROBINSON, A. R.
Estimation and prediction of oceanic eddy fields
[AD-P002652] 11 p1689 N84-21017
Simulation and assimilation of satellite altimeter data at the oceanic mesoscale 17 p2720 N84-27312
ROBINSON, B. A.
Using chemically reactive tracers to determine temperature characteristics of geothermal reservoirs
[DE84-011373] 20 p3242 N84-30580
ROBINSON, B. M.
ARDS (Automated Requirements Development System) user's manual. Volume 1: Document analysis, revision
[AD-A135925] 09 p1398 N84-19128
ROBINSON, C. E.
Review of flow battery testing at Sandia
[DE84-011186] 22 p3589 N84-32734
ROBINSON, D.
Employment changes resulting from the award of contracts in labor surplus areas
[AD-P002834] 13 p2063 N84-23379
ROBINSON, D. W.
Interface bonding of shotcrete reinforced brick masonry assemblages, volume 1
[PB83-223206] 01 p0058 N84-10382
Interface bonding of shotcrete reinforced brick masonry assemblages. Volume 2: Appendices
[PB83-223214] 01 p0059 N84-10383
Audiometric configurations and repeatability in noise-induced hearing loss
[ISVR-TR-123] 20 p3260 N84-30694
ROBINSON, E. J.
New results for transition probabilities in two-level systems: The large detuning regime
[AD-A131783] 03 p0433 N84-12835
ROBINSON, G. N.
Dynamic resonances in the reaction of fluorine atoms with hydrogen molecules
[DE84-013240] 23 p3823 N84-34242
ROBINSON, G. Y.
Electron ballistic effects in III-V semiconductors
[AD-A135353] 08 p1235 N84-18072
ROBINSON, J.
Electrochemistry at the molecular level
[AD-A140070] 15 p2287 N84-24723
ROBINSON, J. C.
Effects of combined ultraviolet and oxygen plasma environment on spacecraft thermal control materials 10 p1446 N84-19449
ROBINSON, J. E.
Lattice dynamics of the mixed-conducting intermetallic compound alpha-LiAl
[DE83-014334] 05 p0756 N84-14959
ROBINSON, J. J.
Extending grammars to new domains
[AD-A137110] 10 p1567 N84-20266
ROBINSON, J. K.
Space Shuttle main engine powerhead structural modeling, stress and fatigue life analysis. Volume 1: Gasdynamic environment of the SSME HPFTP and HPOTP turbines
[NASA-CR-170999] 11 p1625 N84-20635
Space Shuttle main engine powerhead structural modeling, stress and fatigue life analysis. Volume 2: Dynamics of blades and nozzles SSME HPFTP and HPOTP
[NASA-CR-171000] 11 p1625 N84-20636
Space Shuttle main engine powerhead structural modeling, stress and fatigue life analysis. Volume 3: Stress summay of blades and nozzles at FPL and 115 percent RPL loads. SSME HPFTP and HPOTP blades and nozzles
[NASA-CR-171001] 11 p1625 N84-20637
Space Shuttle main engine, powerhead structural modeling, stress and fatigue life analysis. Volume 4: Summary of investigation of unscheduled events and special tasks
[NASA-CR-171002] 11 p1625 N84-20638
ROBINSON, J. P.
Segmented testing
[NASA-CR-173188] 07 p1058 N84-16855
Error latency estimation using functional fault modeling
[NASA-CR-173207] 07 p1058 N84-16856
ROBINSON, K. E.
New results of the ACO storage ring free electron laser
[AD-A137785] 11 p1663 N84-20848
Anomalous laser induced bunch lengthening on the ACO storage ring free electron laser
[AD-A138814] 13 p1995 N84-22949
ROBINSON, K. R.
Local calcium entry and the guidance of growth 02 p0263 N84-11726
ROBINSON, L.
COBOL programming standards at Sandia labs
[DE84-001790] 07 p1055 N84-16835
ROBINSON, M. T.
Physics of ion sputtering
[DE84-011664] 21 p3495 N84-32150
ROBINSON, P. A., JR.
FET charge sensor and voltage probe
[NASA-CASE-NPO-16045-1] 22 p3662 N84-33211
ROBINSON, P. H.
Evaluation of a carbon dioxide scrubber in a 2-lock recompression chamber
[AD-A141052] 19 p2969 N84-28816
ROBINSON, P. J.
A user's view of the Statistic Analysis Package (SAP): A new software quality assurance tool for FORTRAN programs 05 p0722 N84-14738
ROBINSON, R. M.
Phenomenology of structured plasma in the ionosphere
[AD-A136396] 09 p1345 N84-18784
Chatanika radar and S3-2 measurements of auroral-zone electrodynamics in the midnight sector
[AD-A137947] 11 p1644 N84-20748
High-latitude ionospheric irregularities
[AD-A142648] 20 p3241 N84-30573
ROBINSON, R. S.
Sputtering phenomena in ion thrusters
[NASA-CR-168172] 09 p1274 N84-18322
ROBINSON, S. C.
System for maintaining the alignment of mandrels in filament winding operations
[DE84-014660] 23 p3727 N84-33617
ROBINSON, S. E.
The excitation of SiO in circumstellar envelopes 03 p0462 N84-13041
ROBINSON, S. P.
Advanced Ultra-Violet (UV) aircraft fire detection system. Volume 3: Ground Support Equipment (GSE) for system check-out
[AD-A130298] 01 p0006 N84-10039
ROBINSON, W. D.
Performance appraisal of VAS radiometry for GOES-4, -5 and -6
[NASA-TM-85125] 09 p1344 N84-18781
ROBINSON, W. L.
Development of a multidetector deflection measurement system
[DE84-009703] 18 p2847 N84-28078
Development of a multidetector deflection measurement system
[DE84-013580] 21 p3410 N84-31631
ROBINSON, W. W.
Dynamic gas temperature measurement system, volume 1
[NASA-CR-168267-VOL-1] 07 p1007 N84-16529
ROBISON, E. D.
Research in space physics at the University of Iowa, 1982
[NASA-CR-175411] 11 p1754 N84-21447
ROBISON, F. L.
Detection of severe weather by FAA radars
[FAA-RD-79-91] 17 p2733 N84-27372
ROBITAILLE, H. A.
Recent re-measurement of neutron and gamma-ray spectra 1080 meters from the APRD (Army Pulse Radiation Division) critical facility
[AD-A141791] 19 p3124 N84-29848
ROBLEE, J. W.
Precision support of annular optics
[DE83-017473] 04 p0605 N84-13993
ROBLYER, S. P.
Vibration monitoring using a computer-network approach
[DE83-012123] 02 p0232 N84-11523
ROBOTTI, A. C.
Experimental research on electric propulsion. Note 5: Experimental study of a magnetic field stabilized arc-jet
[NASA-TM-77474] 23 p3826 N84-34266
ROBOUCH, B. V.
Plasma focus evolution in time as seen from its neutron, gamma and X ray activities 10 p1582 N84-20365
ROBSON, A. E.
Ion reflection, gyration, and dissipation at supercritical shocks
[DE84-011353] 20 p3303 N84-30980
ROBSON, D.
Research in theoretical nuclear physics
[DE84-003442] 08 p1230 N84-18038
ROBSON, R. R.
The 25 kW resonant dc/dc power converter
[NASA-CR-168273] 08 p1149 N84-17481
ROBWEIN, G. J.
A 50 kJ repetitively pulsed capacitor bank
[DE84-012959] 22 p3589 N84-32735
ROBYN, A. E.
Successful use of microcomputers in classroom instruction
[RAND/P-6653] 12 p1876 N84-22229
ROCA, M.
Volatilization-excitation phenomena and efficiency of spectrochemical buffers in the analysis of geological samples. 1: The action of the mixture Li2CO3 graphite
[JEN-555] 17 p2729 N84-27369
ROCCA-VOLMERANGE, B.
Far UV excess and gas content of SO galaxies 24 p3971 N84-35144
ROCHBLATT, D. J.
DSN microwave antenna holography 10 p1474 N84-19624
ROCHE, C.
The Canadian programme of experimental measurement of sea-state characteristics by sky-wave radar 06 p0869 N84-15657
ROCHE, J. C.
NASCAP simulations of spacecraft charging of the SCATHA satellite 08 p1117 N84-17268
ROCHE, M.
The computation of all plane/surface intersections for CAD/CAM applications 12 p1869 N84-22182
ROCHE, M. F.
Glass electrolytes for sodium/sulfur cells
[DE84-013428] 21 p3394 N84-31539
ROCHE, R. H.
Positive displacement rotary compressor for vapor compression
[PB83-232744] 01 p0092 N84-10599
ROCHEFORT, J. S.
GSE for balloon-borne I.M.S.: Decommutator and D/A units
[AD-A131845] 03 p0377 N84-12452
Signal encoding and telemetry systems for space vehicles
[AD-A134445] 07 p0963 N84-16244
ROCHEFORT, M. A.
Nonlinear viscoelastic characterization of structural adhesives
[NASA-CR-172279] 06 p0809 N84-15268
ROCHELMEYER, H.
Contributions towards analytical chromatography
[BLL-M-29666-(5828.4)] 24 p3880 N84-34579

ROCK, C. A.
Computer simulation of phosphorus cycling in the sediment-water system of eutrophic lakes
[PB84-140573] 11 p1672 N84-20912
ROCK, J. C.
The C-squared system: A general-purpose neuron network model
[AD-A136191] 09 p1304 N84-18524
ROCK, J. E., JR.
A microcomputer based system for analysis of line drawing quantization techniques
[AD-A138413] 12 p1883 N84-22272
ROCK, K.
Summary of solar activity observed in the Mauna Loa Solar Observatory, 1980 - 1983
[PB84-137587] 11 p1760 N84-21484
White light solar corona: An atlas of 1983 K-coronameter synoptic charts
[PB84-184159] 20 p3320 N84-31075
ROCK, K. A.
2nd Joint Solar Dynamics Project data summary: Solar magnetic field, chromospheric and coronal observations near the time of the 11 June 1983 solar eclipse
[NASA-CR-173340] 09 p1417 N84-19272
ROCK, M.
Characterization of physio-chemical properties of polymeric and electrochemical materials for aerospace flight
[NASA-CR-175406] 10 p1465 N84-19568
Characterization of physiochemical properties of polymeric and electrochemical materials for aerospace flight
[NASA-CR-175258] 22 p3558 N84-32534
ROCK, P.
Effects of heat acclimation on atropine impaired thermoregulation
[AD-A139292] 15 p2380 N84-25282
ROCK, P. B.
Prevention of acute mountain sickness by dexamethasone
[AD-A131533] 01 p0114 N84-10737
A software package for administering and monitoring the Environmental Symptoms Questionnaire (ESQ-3)
[AD-A140288] 16 p2538 N84-26293
ROCK, S. M.
HYTESS: A hypothetical turbofan engine simplified simulation
[NASA-TM-83561] 07 p0954 N84-16184
Identification of quasi-steady compressor characteristics from transient data
[NASA-CR-174685] 24 p3855 N84-34444
ROCKAFELLAR, R. T.
Subgradient methods in deterministic and stochastic optimization
[AD-A141216] 18 p2926 N84-28556
ROCKETT, P. D.
VUV instrument calibrations for laser-plasma studies
[DE84-010507] 20 p3303 N84-30974
ROCKWELL, D. A.
Locking of diode gain modules using optical conjugation techniques
[AD-A141234] 18 p2846 N84-28075
ROCKWELL, P. G.
The DOE passive solar commercial buildings program: Preliminary results of performance evaluation
16 p2515 N84-26141
ROCKWELL, T. H.
Research on computer aided testing of pilot response to critical in-flight events
[NASA-CR-173871] 21 p3460 N84-31945
ROCKWOOD, S. D.
Development of CO2 and KrF gas lasers as drivers for inertial confinement fusion
[DE84-004329] 10 p1501 N84-19610
RODACY, P. J.
In-situ permeation tests of elastomeric O-ring seals
[DE83-015622] 03 p0356 N84-12318
RODAK, S. P.
Range performance calculations using the NVEOL-Georgia Tech Research Institute 0.1- to 100-GHz radar performance model
[AD-A133881] 05 p0667 N84-14387
RODDOCH, T. W.
Method for determining how to operate and control wind turbine arrays in utility systems
[DE84-005817] 12 p1813 N84-21817
RODE, R. L.
Concept of a fighter aircraft weapon delivery system
06 p0773 N84-15064
RODEAN, H. C.
Atmospheric dispersion of ammonia: An ammonia fog model
[DE84-000165] 04 p0560 N84-13689
RODEMANN, H.
Further development of magnetotelluric methods for the exploration of the pre-Zechstein by improvement of the data processing codes, data acquisition and interpretation techniques
[BMFT-FB-T-83-190] 07 p1023 N84-16638
RODERER, N. K.
The use and value of Defense Technical Information Center products and services
[AD-A130805] 01 p0161 N84-11061
RODERICK, N. F.
Model for the saturation of the hydromagnetic Rayleigh-Taylor instability
[DE83-012629] 01 p0150 N84-10986
Beam propagation experimental study
[AD-A133310] 06 p0915 N84-15946
RODERICK, W. I.
High-frequency acoustic backscatter from the sea surface
[AD-A143536] 22 p3652 N84-33152
RODGERS, A.
Optical fiber lightguide sensing for gimbal pickoffs
[AD-A133343] 07 p0950 N84-16161
RODGERS, C.
Small auxiliary power unit design constraints
03 p0334 N84-12172
RODGERS, E. J.
Experimental studies of flow separation of three airfoils at low speeds
[NASA-CR-3530] 19 p2956 N84-28736
RODGERS, P. W.
Modeling of water quality in Lake Michigan and the effect of the anomalous ice cover of 1976 - 1977
[PB84-167667] 16 p2511 N84-26115
RODHE, H.
Sulfate in precipitation. A presentation of data from the European Air Chemistry Network
[CM-64] 15 p2367 N84-25199
RODI, A. R.
Cloud physics investigations by the University of Wyoming in HIPLEX 1977-1982
[PB84-106756] 08 p1192 N84-17770
Cloud physics studies in SCPP (Sierra Cooperative Pilot Project) during 1982-1983
[PB84-176452] 17 p2735 N84-27384
RODI, W.
Computation of strongly swirling axi-symmetric free jets
[KU-SFB-80/T/216] 07 p1004 N84-16512
RODIERE, C.
Test means and methods linked to experiments on systems
[SNIAS-841-422-110] 21 p3389 N84-31508
RODIN, N. N.
Passivation of amorphous alloys with various phosphorus contents 24 p3873 N84-34542
RODIONOVA, Z. F.
Distribution of craters of various age on Martian surface 19 p2976 N84-28862
RODIVILOVA, L. A.
Synthesis of polyheteroarylenes for highly heat-resistant materials
[AD-A140610] 17 p2626 N84-26804
RODJAK, D. J.
Distributed processing tools definition. Volume 1: Hardware and software technologies for tightly-coupled distributed systems
[AD-A137686] 11 p1704 N84-21105
RODLOFF, R.
Reflectivity measurements of laser gyro mirrors
[DFVLR-FB-83-35] 12 p1909 N84-22434
Investigations on the lock-in problem and the readout technique of laser gyros
[ESA-TT-773] 16 p2496 N84-26014
RODONO, M.
IUE observations of BY Draconis
24 p3975 N84-35176
Coordinated IUE and ground-based observations of active stars: Flare events on YZ CMi, V 1005 ORI, AD Leo and AR Lac 24 p3975 N84-35177
Rotational modulation of spots and plages on RSCVn stars 24 p3978 N84-35196
Models for the active and quiescent regions on the RS CVN-type system 2 Pegasi (HD 224085)
24 p3978 N84-35197
RODRIGUES, C.
Solution techniques in finite element analysis
[AD-A139552] 14 p2158 N84-23931
RODRIGUES, J. A.
Specifications for a low capacity SCPC FM Earth station
[INPE-2944-NTE/208] 17 p2652 N84-26959
Phase modulator in 41.650 MHz
[INPE-3177-PRE/544] 21 p3391 N84-31515
RODRIGUES, J. E.
A report on the task of collecting geological and structural data in Rio de Janeiro state
[INPE-2851-NTE/203] 17 p2726 N84-27351
RODRIGUES, P.
High-latitude F-region irregularities: Intensity and scale size distributions
[AD-A130889] 01 p0105 N84-10684
RODRIGUEZ, A. F.
Design considerations for a HE-3 refrigerator for space applications
[NASA-TM-85973] 18 p2836 N84-28001
RODRIGUEZ, E. M.
Ice formation in aircraft 06 p0783 N84-15130
Study of aerospace materials, coatings, adhesions and processes. Aircraft icing processes
[AD-A139743] 15 p2257 N84-24557
RODRIGUEZ, G. E.
Integrated Flywheel Technology, 1983
[NASA-CP-2290] 03 p0343 N84-12228
GSFC flywheel status 03 p0344 N84-12230
Inertial energy storage for spacecraft
23 p3735 N84-33669
RODRIGUEZ, G. P.
Review of flow battery testing at Sandia
[DE84-011186] 22 p3589 N84-32734
RODRIGUEZ, J. M.
Transport processes in planetary atmospheres
06 p0939 N84-16104
RODRIGUEZ, R.
The stability of visual field measures with repeated testing
[AD-A132704] 05 p0713 N84-14674
Cold weather goggles. 6: Effectiveness of yellow filters
[AD-A136241] 09 p1363 N84-18904
RODRIGUEZ, R. R.
Increase of cold tolerance in cotton plant (Gossypium hirsutum L.) by mepiquat chloride
[E84-10088] 10 p1521 N84-19959
Reflectance measurements of cotton leaf senescence altered by mepiquat chloride
[E84-10089] 10 p1521 N84-19960
RODRIQUE, G.
Generalization of the numerical Schwarz algorithm
[DE84-003735] 11 p1716 N84-21191
RODRIQUEZ, B. Y.
Operator workload measurement validation for the MARK IV DSCC monitor and control subsystem
10 p1475 N84-19634
RODRIQUEZ, R. N.
Inspection errors in link sampling
[AD-A135636] 09 p1382 N84-19029
ROE, F. L.
Microbial fouling and its effect on power generation
[AD-A131084] 01 p0112 N84-10726
ROE, G.
Advanced cockpit-systems integration
[AD-P003569] 21 p3337 N84-31174
ROE, P. L.
An introduction to numerical methods suitable for the Euler equations 06 p0835 N84-15431
ROE, R. J.
Small-angle X-ray scattering study of micelle formation in mixtures of butadiene homopolymer and styrene-butadiene block copolymer
[AD-A133645] 05 p0659 N84-14330
Effect of polydispersity on the cloud point curves of polymer mixtures
[AD-A143159] 21 p3370 N84-31384
ROECKER, S. W.
Tectonic deformation of the Andes and the configuration of the subducted slab in central Peru: Results from a micro-seismic experiment
[NASA-CR-175445] 11 p1681 N84-20972
ROEDER, A.
The design of modern Low Pressure (LP) steam turbines 06 p0840 N84-15473
ROEDER, A. W.
Simultaneous detection of time coincident signals in an adaptive Doppler tracker
[AD-D011092] 22 p3577 N84-32659
ROEDER, E.
Laser technology: Material for separating, joining and surface treating
[RKW-836] 16 p2497 N84-26019
ROEDER, G. L.
A cost based acquisition planning model utilizing expert system concepts
[AD-P002783] 13 p2055 N84-23330
Computer Generated Acquisition Document System (CGADS)
[AD-P002784] 13 p2055 N84-23331
Computer Aided Source Selection (CASS)
[AD-P002785] 13 p2055 N84-23332

ROEFS, H. F. A.
Shannon: Theory and cryptography
[NLR-MP-82053-U] 12 p1808 N84-21788
Compression and Decompression of Imaging Sensor Signals (CADISS): An image (de)compression system for deep space application
[NLR-MP-83028-U] 15 p2390 N84-25339
ROEHKEL, K.
Micro-reactions of metal contacts on various types of GaAs surfaces
[AD-A139412] 14 p2242 N84-24464
ROEHL, E.
Physical modeling of the champagne effect
[DE84-001813] 04 p0516 N84-13388
ROEJDAAS, B.
Attempt to study by ocular inspection the influence of rubber quality on the sealing effects of O-rings
[FOA-C-20526-E4] 16 p2498 N84-26030
ROELKE, R. J.
Cold-air performance of compressor-drive turbine of department of energy upgraded automobile gas turbine engine. 3: Performance of redesigned turbine
[NASA-TM-83627] 16 p2438 N84-25644
ROELOF, E. C.
Prediction of solar-terrestrial disturbances: Decay phase of energetic proton events
[AD-A130103] 01 p0165 N84-11085
Spatial variation of iron abundance in the high speed solar wind, 1972 to 1976 03 p0473 N84-13113
The ISPM experiment for spectral, composition and anistropy measurements of charged particles at low energie 09 p1261 N84-18235
ROEMER, W. A.
An optically implemented Kalman filter algorithm
[AD-A141126] 19 p3083 N84-29565
ROENNAENG, B.
Millimeter radio astronomy at Onsala (Sweden)
09 p1413 N84-19242
ROENNBERG, I.
Immobilization of biomolecules on semiconductor surfaces
[FOA-C-40178-C2(B2,A3)] 06 p0831 N84-15408
ROESCH, E.
Dopants profiling techniques in semiconductor technology
[BMFT-FB-T-83-126] 02 p0300 N84-11972
ROESCH, S.
Fundamental research for production of high polymers on synthesis gas basis
[BMFT-FB-T-84-075] 19 p3001 N84-29016
ROESLER, G. E.
Economic production rate study
[AD-P002793] 13 p2057 N84-23340
ROESLER, J. F.
Construction and evaluation of a flow test stand
[PB84-201581] 22 p3615 N84-32906
ROESLER, L.
Weapons file
[AD-A142508] 20 p3128 N84-29867
ROESSET, J. N.
Effects of rigid inclusions on wave propagation
[AD-A131366] 02 p0209 N84-11366
ROESSNER, B.
Analytical methods for determination of inorganic anions
[BLL-WH-592-(9091.9F)] 21 p3358 N84-31301
ROEST, J. D.
Investigation of detonation chains. Part 13: Continuous measurement of the detonation velocity of pressed TNT using an ultrahigh speed camera
[PML-1982-3] 12 p1814 N84-21825
ROETTENBACHER, R.
High temperature electrolysis of water vapor: HOT ELLY, phase 2A
[BMFT-FB-T-84-032] 16 p2463 N84-25784
ROFFEY, R.
Method for evaluation of petroleum products corrosivity using piezoelectric crystals, part 1
[FOA-C-40189-B4-PT-1] 23 p3726 N84-33611
ROGACHEV, K. A.
Prognostic relationships for surface temperature anomalies in northern part of Pacific Ocean
18 p2858 N84-28148
ROGACKI, J. R.
Wear during rubbing of a sintered metal powder body
[AD-A132354] 04 p0544 N84-13584
ROGALLA, K.
German-Argentinian R and D project for the utilization of wind energy
[BMFT-FB-T-84-080] 20 p3237 N84-30549
ROGALLO, R. S.
Navier-Stokes simulation of homogeneous turbulence on the CYBER 205 10 p1560 N84-20224
ROGERS, A. M.
Southern Great Basin seismological data report for 1981 and preliminary data analysis
[DE84-005687] 15 p2369 N84-25213
ROGERS, A. S.
Workload of personnel engaged in air defence
11 p1699 N84-21079
ROGERS, B. J.
Operating conditions for the Hydrogen/Deuterium triplet lasers
[AD-A141388] 19 p3029 N84-29210
ROGERS, C. W.
An evaluation of marine fog forecast concepts and a preliminary design for a marine obscuration forecast system
[AD-A136379] 09 p1348 N84-18808
Aerosol characteristics on the Alboran sea, 9-18 october 1982
[AD-A139892] 15 p2371 N84-25227
ROGERS, D. C.
Field and laboratory studies of ice nucleation in winter orographic clouds 03 p0409 N84-12678
ROGERS, D. R.
Schottky barrier photoelectrodes with a variable barrier height
[AD-A141813] 19 p3111 N84-29765
ROGERS, D. W.
Development and marketing of a prosthetic urinary control valve system
[NASA-CR-170994] 12 p1867 N84-22168
ROGERS, J.
Evaluating multiple coordinated windows for programming workstations 13 p2027 N84-23146
Spatial electron density and electric field strength measurements in microwave cavity experiments
[NASA-CR-173907] 22 p3582 N84-32682
ROGERS, J. D.
Plant and operational features of the BPA 30 MJ superconducting magnetic energy storage system
[DE84-006006] 19 p3011 N84-29086
ROGERS, J. E.
Chemical attenuation rates, coefficients, and constants in leachate migration. Volume 1: A critical review
[DE84-009432] 20 p3238 N84-30557
ROGERS, J. L., JR.
An implementation of the programming structural synthesis system (PROSSS)
[NASA-TM-83180] 18 p2920 N84-28517
An implementation of the distributed programming structural synthesis system (PROSSS)
[NASA-TM-83253] 18 p2920 N84-28518
ROGERS, J. R.
Numerical solutions to ill-posed and well-posed impedance boundary condition integral equations
[AD-A137353] 10 p1479 N84-19664
ROGERS, J. W.
Understanding localized behavior in the Auger spectra of covalent systems such as graphite
[AD-A133924] 05 p0647 N84-14255
ROGERS, J. W., JR.
Effect of thermal aging on the output of a pyrotechnic actuator
[DE84-012903] 22 p3562 N84-32558
ROGERS, L. B.
Effects of surface area and pore size upon liquid chromatographic fractionations of polystyrene oligomers using ethylphenyl derivatized silicas
[DE83-014832] 01 p0051 N84-10327
ROGERS, M. W.
Computer program for preliminary helicopter design
[AD-A136026] 09 p1256 N84-18197
ROGERS, P. S. Z.
Microprobe analyses of rare-earth-element fractionation in meteoritic minerals
[DE83-017326] 04 p0621 N84-14097
ROGERS, R. C.
Numerical predictions of residence times behind a rearward facing step with transverse injection
13 p1951 N84-22687
ROGERS, R. N.
Deuterium isotope effects in HMX thermochemical mechanisms: Decomposition, deflagration, and combustion 13 p1950 N84-22680
ROGERS, R. P.
IRSIM: A program for the calculation of infrared flux intensity incident on a spacecraft inside a test chamber
10 p1440 N84-19400
ROGERS, S. C.
Invention of a tunable damper for use with an acoustic waveguide in hostile environments
[DE84-013109] 20 p3292 N84-30897
ROGERS, S. P.
Evaluation of map symbols for a computer generated topographic display: Transfer of training, symbol confusion, and association value studies
[AD-A133590] 06 p0866 N84-15643
Displaying colors of specified chrominance on a color graphics display
[AD-A133591] 06 p0896 N84-15817
The integrated mission-planning station: Functional requirements, aviator-computer dialogue, and human engineering design criteria
[AD-A136909] 10 p1430 N84-19352
ROGERS, T. F., JR.
INTEL 432/670 Ada benchmark performance evaluation in the Multiprocessor/Multiprocess environment
[AD-A132774] 05 p0719 N84-14715
ROGERS, W. E.
Recent developments: PKI square dish for the Soleras Project 18 p2873 N84-28237
ROGERS, W. R.
A research study of the assessment of escape impairment by irritant combustion gases in postcrash aircraft fires
[FAA-CT-84-16] 22 p3533 N84-32366
ROGERSON, A.
Defect sizing using the time of flight technique on the RNL RSV plate
[ND-R-790(R)] 18 p2850 N84-28099
ROGLER, H. L.
Nonperiodic fluctuations induced by stationary surface waviness on a semi-infinite plate
[AD-A130820] 02 p0174 N84-11146
ROGO, C.
Variable stator radial turbine
[NASA-CR-174663] 13 p1932 N84-22568
ROHATGI, R.
Particle confinement during lower-hybrid current drive in the Versator 2 Tokamak
[DE84-008941] 19 p3106 N84-29737
ROHDE, A.
Modular image analysis system
[BMFT-FB-T-84-074] 21 p3499 N84-32177
ROHDE, R. W.
Effect of environment and materials properties on the friction and wear behavior of precious metal electrical contact alloy couples
[DE83-010403] 02 p0215 N84-11409
Evaluation of the kinematic variable (back stress) response of metals
[DE83-008381] 03 p0353 N84-12293
ROHDENBURG, C.
Automotive Stirling engine development program
[NASA-CR-168205] 08 p1242 N84-18117
Automotive Stirling engine development program
[NASA-CR-174622] 21 p3521 N84-32305
ROHLEDER, M.
An approach to software cost estimation
[NASA-TM-85607] 13 p2026 N84-23136
ROHN, D. A.
An analysis of traction drive torsional stiffness
[NASA-TM-83712] 17 p2675 N84-27043
ROHR, D. L.
Structural performance of ceramics in a high-fluence fusion environment
[DE84-001311] 04 p0508 N84-13329
ROHRS, C. E.
Some design guidelines and discrete-time adaptive controllers
[NASA-CR-173800] 20 p3278 N84-30808
ROHWEIN, G. J.
RAVEN, a 5-jK, 1.5-MV repetitive pulser
[DE83-013643] 01 p0071 N84-10465
Review of repetitive-pulse-power component technology
[DE83-011784] 01 p0073 N84-10475
ROHY, D. A.
Experimental study of the operating characteristics of premixing-prevaporizing fuel/air mixing passages
[NASA-CR-168279] 05 p0630 N84-14143
ROITMAN, D.
The process of technological innovation: Reviewing the literature 16 p2566 N84-26486
ROKAKH, A. G.
Spectral dependence of magnetoresistivity in heterophase photoconductors based on CdSe
18 p2825 N84-27935
ROLAND, A.
A guide to research in NASA history, 7th edition
[NASA-TM-85486] 06 p0935 N84-16076
ROLAND, D.
Optical and mechanical properties of single mode cables at 1300 nm 11 p1726 N84-21258
ROLFE, E.
Space laser applications and technologies (SPLAT)
[ESA-SP-202] 24 p3903 N84-34715
Fourth European IUE Conference
[ESA-SP-218] 24 p3970 N84-35135
ROLFE, E. J.
Software engineering
[ESA-SP-199] 05 p0721 N84-14729

Statistical methods in astronomy
[ESA-SP-201] 09 p1407 N84-19196
The effect of gravity on the solidification of immiscible alloys
[ESA-SP-219] 17 p2612 N84-26719
ROLFE, S. T.
Failure prediction of notched pressure vessels using the CTOD approach
[DE84-013057] 22 p3612 N84-32883
ROLFO, A.
Starprobe thermal shield evolution
10 p1448 N84-19462
ROLLA, J.
On-line traffic monitor
[AD-A131358] 02 p0209 N84-11364
ROLLAND, L.
Surface embrittlement of ductile polymers: A fracture mechanics approach 05 p0657 N84-14321
ROLLINS, H. C.
Water resources data for Alabama, water year 1982
[PB84-183250] 20 p3229 N84-30523
ROLLS, W.
Fabrication of Schottky barrier detectors on thin films of PbSSe
[AD-A134310] 07 p1080 N84-17020
ROLPH, J. E.
Using statistical tools
[RAND/N-2121-PSSP] 22 p3647 N84-33124
ROM, J.
Calculation of aerodynamic characteristics of wings with thickness and camber by a new method based on the modified vortex lattice method
[TAE-493] 16 p2438 N84-25640
ROMAGNOLI, M.
The potential dependence of surface plasmon-enhanced second harmonic generation at thin film silver electrodes
[AD-A136322] 12 p1793 N84-21692
Second harmonic generation at thin film silver electrodes via surface polaritons
[AD-A143597] 23 p3824 N84-34254
ROMAN, E.
Ground-state properties and optical excitations of a solvated electron in molten alkali halides
[DE84-701191] 24 p3881 N84-34587
ROMAN, N. G.
Documentation for the machine-readable version of the SAO-HD-GC-DM cross index version 1983
[NASA-TM-85570] 13 p2071 N84-23418
Documentation for the machine-readable version of the Smithsonian Astrophysical Observatory Star catalogue (SAO) version 1984
[NASA-TM-85574] 13 p2071 N84-23419
Documentation for the machine-readable version of the general catalogue of 33342 stars for the epoch 1950 (Boss 1937)
[NASA-TM-85568] 13 p2071 N84-23420
ROMAN, O. V.
Structure and properties of amorphous powder material after explosive loading 24 p3870 N84-34526
ROMANCHENKO, V. I.
Microstructure of aluminum alloy in early stages of spalling 12 p1783 N84-21634
Failure of aluminum alloy in the presplitting stage
24 p3874 N84-34549
ROMANENKO, A. V.
Influence of laser hardening on mechanical properties of type 45 steel 24 p3873 N84-34546
ROMANI, J. C.
Test rig for measuring hydraulic equipment noise
[CETIM-41-H-337] 21 p3345 N84-31224
Compressed air exhaust silencers, summary
[CETIM-11-H-275] 21 p3414 N84-31650
ROMANIUK, R.
Fiber-optics symposium, scientific agreement describe
12 p1897 N84-22358
ROMANIV, V. I.
Explosive welding in the manufacture of titanium shells 24 p3876 N84-34562
ROMANOFSKY, R. R.
Monolithic microwave integrated circuits: Interconnections and packaging considerations
[NASA-TM-83774] 21 p3382 N84-31461
ROMANOV, L. M.
Influence of alloying on the properties of nickel in the solid and liquid states
[BLL-M-35284-(5828.4)] 06 p0803 N84-15232
ROMANOV, N. N.
Quasigeostrophic movements in barotropic and baroclinic fluid 18 p2865 N84-28191
ROMANOV, Y. P.
Critical current of the dispersion superconducting phase, obtained during aging
[AD-A136024] 09 p1396 N84-19118
ROMANOVA, I. A.
Metabolism and nutritional status in emergency situations without food supply or on a low-calorie diet
07 p1046 N84-16781
ROMANOWSKI, E.
Microscopic studies of accelerated destruction of plastic contact in kinematic pairs from different metals
[ISSN-0208-5658] 23 p3716 N84-33554
ROMANYUK, I. I.
Differential equations for movement of triaxial gyroscopic stabilizer on moving base 21 p3488 N84-32107
ROMASCHENKO, V. A.
Influence of anisotropy and viscosity on propagation on waves in multilayer cylinders 12 p1788 N84-21660
ROME, J. J.
Optical and electrical characterization of multiply doped silicon: A study of the Si:(In, Al) system
[AD-A143820] 23 p3830 N84-34294
ROMER, L. D.
Efficiency of high-frequency ventilation as determined by nitrogen washouts: A model study
[AD-A131331] 02 p0265 N84-11745
ROMERE, P. O.
Space shuttle entry longitudinal aerodynamic comparisons of flights 1-4 with preflight predictions
01 p0020 N84-10128
ROMERO, A. R.
Maintenance communications for the 1990's
[AD-A133978] 05 p0666 N84-14383
ROMERO, J. L.
Transmission of fast neutrons from the Li(d,xn) reaction through thick iron
[DE83-015975] 03 p0439 N84-12884
ROMERO, L.
Code BETAL to calculation Alpha/Beta activities in environmental samples
[JEN-549] 04 p0578 N84-13816
ROMEU, J. L.
An approach to software baseline generation
13 p2028 N84-23149
ROMIER, A.
Auxilliary power systems with gas turbines
03 p0334 N84-12170
ROMINE, G.
Preliminary operating assessment advanced Heat Recovery Incinerator (HRI). Site One: O'Connor Combustor Corporation
[AD-A131254] 01 p0103 N84-10667
ROMMEL, B. A.
The development of FAST-FLOW (a program for flutter optimization to satisfy multiple flutter requirements)
02 p0171 N84-11124
ROMNEY, C. F.
Research and development support for the Center for Seismic Studies
[AD-A144442] 24 p3920 N84-34813
ROMO, J. G.
Metal finishing and vacuum processes groups
[DE84-011046] 21 p3367 N84-31358
RONAN, M.
Trigger systems which could operate at a luminosity of 10/sup 33 cm(-2) to sec/sup -1
06 p0911 N84-15918
RONCHETTI, C.
On-line monitoring of the true corrosion rate in power plants
[CISE-2156] 16 p2465 N84-25796
RONCHETTI, E.
Variance-stable R-estimators
[AD-A143172] 21 p3475 N84-32024
Robust C(Alpha)-type tests for linear models
[AD-A143177] 22 p3648 N84-33125
Bounded-influence inference in regression
[AD-A143195] 22 p3648 N84-33126
Robust model selection in regression
[AD-A143209] 22 p3648 N84-33127
RONCHI, S.
The role of quality assurance in the development of software for space applications
05 p0723 N84-14743
RONCONI, R.
A radar signal processor implemented with surface acoustic waves devices 06 p0907 N84-15889
RONE, K. Y.
Projecting manpower to attain quality
13 p2028 N84-23148
RONEY, B. D.
Autonomous surveillance in the visual spectral region
24 p3914 N84-34786
RONGQIANG, C.
An investigation of the texture surface silicon solar cell
[AD-A134250] 07 p1026 N84-16646
RONGZHANG, C.
Influences of directionally solidified techniques and hafnium content on a nickel base high temperature alloy
20 p3159 N84-30064
RONNENBURG, C. H.
Issues critical to the application of adaptive array antennas to missile seekers
[AD-A133401] 06 p0824 N84-15371
RONNEY, P. D.
Effect of gravity on halogenated hydrocarbon flame retardant effectiveness
[NASA-TM-83761] 23 p3713 N84-33536
RONYAI, L.
Selfdual classes and automorphism groups
[AD-P002341] 14 p2191 N84-24132
On free spectra of clones with sharply transitive automorphism groups
[AD-P002342] 14 p2191 N84-24133
ROOD, E. P., JR.
Experimental investigation of the turbulent large scale temporal flow in the wing-body junction
[AD-A139636] 15 p2257 N84-24558
ROODE, F.
Investigation of the strength of a flycatcher wheel suspension
[IWECO-5075410-83-01] 12 p1827 N84-21912
Experimental verification of constitutive equations for creep and the interaction of creep and plasticity under biaxial loading conditions
[REPT-5011202-81-3] 17 p2625 N84-26800
ROOF, R. B.
Evidence for stacking faults in multiaxial strained alpha-brass
[DE83-014118] 01 p0155 N84-11019
ROOPCHAND, B.
Cold working and annealing effects on the creep and rupture resistance of the oxide-dispersion-strengthened alloy MA754
[AD-A141438] 19 p2993 N84-28969
ROOS, E.
Extended experimental and theoretical investigations to quantify ductile fracture behavior, using MnMoNi 55
[MPA-82-01] 09 p1334 N84-18709
ROOS, H. N.
Testing for severe aerodynamically induced vibration environments 10 p1513 N84-19905
ROOS, R.
Measurement of diffusion constant by pulsed magnetic field gradient NMR in Ag26I13W4O16 RbAg4I5 and KAg4I5 11 p1743 N84-21373
ROOSE, L. D.
Direct measurement of the energy spectrum of an intense proton beam
[DE84-000457] 04 p0597 N84-13939
ROOT, R. W.
User centered system design
[AD-A136131] 09 p1364 N84-18907
ROOTH, R. A.
Visualization of patterns corresponding to the Fourier components of a vibration by interference holography
[TPD-1982-0-1] 02 p0222 N84-11453
ROPAR, S. A.
Prediction of hydraulic pump failures through wear debris analysis
[AD-A131386] 02 p0229 N84-11503
ROPE, E. L.
Electromagnetic waves near dielectric structures
[AD-A132630] 05 p0670 N84-14403
ROPELEWSKI, C. F.
Spatial and temporal distribution of Northern Hemisphere snow cover
[PB84-118348] 09 p1350 N84-18819
ROPIY, A. I.
Intermodulation in protective semiconductor microwave devices 22 p3571 N84-32612
ROQUEMORE, L.
NASA RECON: Course development, administration, and evaluation
[NASA-CR-173922] 23 p3834 N84-34318
ROQUEMORE, W. M.
Utilization of laser diagnostics to evaluate combustor models 15 p2294 N84-24767
RORKE, W. S., JR.
Wind load and life-cycle testing of second generation heliostats
[DE84-003333] 07 p1026 N84-16648
RORSCHACH, H. E., JR.
The measurement of the diffusive motion of protons in biological systems
[AD-A129276] 01 p0142 N84-10930
ROSA, G.
The electron and ion spectra of radar returns from the critical height during ionospheric heating experiments
05 p0636 N84-14185
ROSAKIS, A. J.
Workshop on Dynamic Fracture held at Pasadena, California on 17-18 February 1983
[AD-A140194] 16 p2466 N84-25806
Dynamic crack growth criteria in structural metals
[AD-P003107] 16 p2467 N84-25812

ROSALES, R. J., JR.
Determination of factors affecting performance and productivity in an engineering/design environment
[AD-A143315] 22 p3669 N84-33252
ROSATI, A.
Parameterization of the ABL and OBL in a GFDL model, appendix M 18 p2885 N84-28308
ROSCHKE, E. J.
Wind loading on solar concentrators: Some general considerations
[NASA-CR-173896] 22 p3616 N84-32915
ROSCOE, A. H.
Assessing pilot workload in flight 24 p3849 N84-34408
ROSCOE, D. V.
Investigation of the mechanism of transonic shock wave/boundary layer interactions using a Navier-Stokes analysis
[AD-A141551] 19 p2959 N84-28752
ROSCOE, S. N.
Human factors affecting pilot performance in vertical and translational instrument flight
[AD-A139141] 14 p2187 N84-24105
ROSE, A.
A general method for the evaluation of degree of completeness
[AD-P002354] 14 p2192 N84-24145
ROSE, B.
Contracting initiative: Best proposal for price
[AD-P002782] 13 p2055 N84-23329
ROSE, D. J.
Global energy and CO2-induced climate change
[PB84-145895] 12 p1862 N84-22131
Global energy futures and CO2-induced climate change, appendices
[PB84-145903] 12 p1862 N84-22132
Global energy future and CO2 induced climate change: Executive summary
[PB84-145911] 12 p1862 N84-22133
ROSE, D. M.
Review and verification of CARE 3 mathematical model and code
[NASA-CR-166096] 12 p1876 N84-22227
CARE 3: Model overview and user's guide
[NASA-TM-85810] 18 p2920 N84-28514
ROSE, E. A.
Investigation of short-pulse electron-beam propagation
[AD-A140383] 16 p2556 N84-26396
ROSE, E. C.
Environmental, health and safety assessment of photovoltaics
[NASA-CR-173739] 18 p2877 N84-28267
ROSE, F. G.
Case studies using GOES infrared data and a planetary boundary layer model to infer regional scale variations in soil moisture
[NASA-CR-173250] 07 p1022 N84-16631
ROSE, G.
Preliminary results from the Heating Rocket (HERO) project: In situ measurements of ionospheric modifications using sounding rockets 05 p0636 N84-14183
ROSE, J. H.
Progress on ultrasonic flaw sizing in turbine-engine rotor components: Bore and web geometries
[DE83-018081] 03 p0333 N84-12167
Inverse born approximation: Exact determination of shape of convex voids
[DE83-017685] 03 p0385 N84-12512
Elastic-wave inverse scattering in non-destructive evaluation
[DE83-017683] 03 p0386 N84-12513
Elastic-wave scattering from multiple voids (porosity)
[DE83-018076] 04 p0546 N84-13598
Ultrasonic 3-D reconstruction of inclusions in solids using the inverse Born algorithm
[DE83-018082] 04 p0595 N84-13928
Effects of a finite aperture on the inverse born approximation
[DE83-018086] 04 p0596 N84-13930
Metallic adhesion and bonding 14 p2153 N84-23897
ROSE, M. E.
Restricted maximum principles for elastic bodies
[NASA-CR-172255] 04 p0548 N84-13609
A finite difference scheme for the equilibrium equations of elastic bodies
[NASA-CR-172293] 08 p1170 N84-17621
ROSE, M. F.
Fast Electrical and Optical Diagnostic Principles and Techniques: A NATO Advanced Study Institute
[AD-A138598] 13 p1993 N84-22936
ROSEBLADE, R. J.
The effect of injection molding processing parameters on the environmental stress cracking resistance of polycarbonate moldings
[MRL-R-924] 20 p3201 N84-30332
ROSECRANS, P. M.
Characterization of zirconium alloy oxidation films by alternating current impedence
[DE84-006225] 13 p1985 N84-22766
ROSEMA, A.
Group Agromet Monitoring Project (GAMP), phase 1
[ESA-CR(P)-1769] 07 p1023 N84-16637
ROSEMEIER, R. G.
Microstructural origins of hot spots in RDX explosive and several reference inert materials
[AD-A132056] 03 p0357 N84-12325
Real-time X-ray diffraction: Applications to materials characterization 18 p2939 N84-28644
ROSEN, B. S.
The COREL and W12SC3 computer programs for supersonic wing design and analysis
[NASA-CR-3676] 08 p1096 N84-17130
ROSEN, B. W.
Guidelines for composite materials research related to general aviation aircraft
[NASA-CR-3720] 02 p0187 N84-11218
ROSEN, D.
Experimental and theoretical studies of laser propulsion phenomenology
[AD-A140995] 18 p2846 N84-28069
Grounding and fault protection of the SMUD PVI array 22 p3584 N84-32698
ROSEN, H.
Aethalometer: An instrument for the real-time measurement of optical absorption by aerosol particles
[DE84-000400] 04 p0538 N84-13538
Raman study of graphitic-carbon concentrations in the Western Arctic
[DE84-001090] 05 p0700 N84-14596
ROSEN, I. G.
A numerical scheme for the identification of hybrid systems describing the vibration of flexible beams with tip bodies
[NASA-CR-172388] 19 p3095 N84-29655
Approximation techniques for parameter estimation and feedback control for distributed models of large flexible structures
[NASA-CR-172411] 20 p3135 N84-29903
ROSEN, M. D.
Creation of ultra-high-pressure shocks by the collision of laser-accelerated disks: Experiment and theory
[DE83-017366] 03 p0382 N84-12486
Soft X-ray laser experiments at Norvette Laser Facility
[DE84-012594] 21 p3410 N84-31627
ROSEN, R. D.
Outlook for improved numerical weather prediction using satellite data with a special emphasis on the hydrological variables
[AD-A141233] 18 p2890 N84-28344
ROSEN, S. P.
The 19th Moriond meeting: Summary talk
[DE84-010053] 20 p3319 N84-31072
ROSENAU, B.
Description of an electromagnetic compatibility laboratory
[SNIAS-832-422-103] 15 p2321 N84-24933
ROSENAU, G.
Analysing redundant flight path data on two Airbus A-300 aircraft 17 p2586 N84-26577
ROSENBAUER, H.
Associations between coronal mass ejections and interplanetary shocks 03 p0474 N84-13121
The ISPM interstellar neutral-gas experiments 09 p1261 N84-18234
ROSENBECK, P.
CTX: A system for computer-aided indexing
[BMFT-FB-ID-83-006] 02 p0303 N84-11986
ROSENBERG, A.
Three-dimensional circuit layouts
[AD-A143430] 22 p3586 N84-32713
ROSENBERG, A. N.
Numerical solution of systems of simultaneous polynomial equations
[DE83-015832] 01 p0135 N84-10883
ROSENBERG, G. D.
The effects of spaceflight on the mineralization of rat incisor dentin 09 p1353 N84-18845
ROSENBERG, I. G.
Completeness for uniformly delayed circuits
[AD-P002325] 14 p2189 N84-24116
ROSENBERG, J. T.
Lagrange gage studies of nonideal explosives containing NH-4NO-3
[AD-A132760] 05 p0661 N84-14347
ROSENBERG, L.
Advanced cogeneration research study: Executive summary
[NASA-CR-173467] 12 p1841 N84-22005
Cogeneration computer model assessment: Advanced cogeneration research study
[NASA-CR-173453] 12 p1841 N84-22006
Evaluation of the HARDMAN comparability methodology for manpower, personnel and training
[NASA-CR-173733] 18 p2915 N84-28485
ROSENBERG, N.
Coastal bathymetry and currents from LANDSAT data 17 p2718 N84-27303
ROSENBERG, S. D.
Auxiliary propulsion 09 p1268 N84-18283
An integrated space station propulsion system 20 p3139 N84-29933
ROSENBERG, W. J.
Strategic blue-green communication filters
[AD-A142353] 20 p3173 N84-30151
ROSENBERGER, A. T.
Optical bistability with two-level atoms 14 p2231 N84-24383
ROSENBLAT, S.
Fundamentals of non-Newtonian liquid flow on surfaces
[AD-A135543] 08 p1158 N84-17541
ROSENBLUM, S. S.
A high current heavy ion beam transport experiment at LBL
[DE84-009225] 20 p3294 N84-30912
ROSENBLUTH, M.
The Gain-Spread-Excitation theorem
[AD-A144447] 24 p3951 N84-35020
ROSENBLUTH, M. N.
Energetic-particle stabilization of ballooning modes in Tokamaks
[DE83-016205] 04 p0609 N84-14020
Theoretical studies on free electron lasers
[AD-A136333] 09 p1321 N84-18627
ROSENFELD, A.
Application of hierarchical data structures to geographical information systems
[AD-A134999] 08 p1177 N84-17670
Theory of image analysis and recognition
[AD-A135453] 08 p1240 N84-18106
Parallel algorithms for image analysis, extended summary 09 p1402 N84-19161
Evidence accumulation for spatial reasoning in aerial image understanding
[AD-A139874] 15 p2336 N84-25025
Parallel image processing and image understanding
[AD-A142162] 19 p3042 N84-29300
Simulation of large networks of processors by smaller ones
[AD-A143529] 22 p3643 N84-33098
Degrees of adjacency or surroundedness
[AD-A143528] 22 p3646 N84-33118
ROSENFELD, M. S.
The effect of superposing ripple loading of maneuver load cycles
[AD-A132653] 06 p0786 N84-15148
ROSENKRANTZ, W. A.
Applications of functional analytic and Martingale methods to problems in queueing network theory
[AD-A137748] 11 p1718 N84-21208
ROSENKRANZ, P. W.
Radio astronomy 22 p3683 N84-33349
ROSENKRANZ, W. A.
Accomplishments of the NASA Johnson Space Center portion of the soil moisture project in fiscal year 1981
[E84-10090] 10 p1521 N84-19961
ROSENPLAENTER, R. P.
Development of a multilayer process based on the down draft principle for the sintering of iron ore
[BMFT-FB-T-83-065] 02 p0197 N84-11282
ROSENSTARK, S.
Decision rules applied to spread spectrum signal detection
[AD-A144253] 24 p3894 N84-34661
ROSENTHAL, H. A.
Re-design and fabrication of titanium multi-wall Thermal Protection System (TPS) test panels
[NASA-CR-172247] 12 p1780 N84-21610
ROSENTHAL, I.
Homogeneous reactions of hydrocarbons, silane, and chlorosilanes in radiofrequency plasmas at low pressures
[NASA-TP-2301] 11 p1626 N84-20643
Radical and ion molecule mechanisms in the polymerization of hydrocarbons and chlorosilanes in RF plasmas at low pressures (1.0 torr)
[NASA-TM-83602] 11 p1736 N84-21329
ROSENTHAL, L.
Computer science and technology: Microcomputer: A review of federal agency experiences
[PB83-238972] 02 p0271 N84-11772
ROSENTHAL, M. S.
Bone blood flow measured by (41)Ar clearance formed by (44)Ca(n,(-)) (41)Ar
[DE83-017600] 06 p0886 N84-15761

ROSENTHAL, R. L.
A methodology for digital processing of geographic and cartographic data
[AD-A135835] 09 p1337 N84-18730
ROSENTHAL, S. E.
Amplion hybrid diodes on hydramite and PBFA-1
[DE83-017824] 03 p0448 N84-12945
Hybrid ion diode theory and computations
[DE84-000102] 04 p0610 N84-14029
ROSENTHAL, S. J.
Molecule microscopy 22 p3681 N84-33337
ROSENTHAL, W.
Removal of ambiguity of two-dimensional gray level variance spectra obtained by processing ship radar images of ocean waves 23 p3772 N84-33909
ROSENTHAL, W. D.
Development of visible/infrared/microwave agriculture classification and biomass estimation algorithms, volume 2
[E84-10059] 06 p0864 N84-15629
ROSENWAKS, S.
Reactions of metastable rare gases with copper atoms
[AD-A136448] 09 p1278 N84-18348
ROSENZWEIG, M. S.
Sampling report for the study of personal CO (carbon monoxide) exposure
[PB84-161957] 20 p3239 N84-30560
ROSFJORD, T. J.
Aviation-fuel property effects on combustion
[NASA-CR-168334] 08 p1139 N84-17407
Influence of fuel chemical properties on gas turbine combustors 14 p2107 N84-23634
ROSHKO, A.
Chemical reactions in turbulent mixing flows, revision
[AD-A133874] 05 p0647 N84-14258
ROSIER, P. W.
The use of trajectories in short range weather forecasting
[KNMI-TR-35] 12 p1861 N84-22126
ROSINBERG, M. L.
An exactly solvable model for ideally polarizable interfaces
[AD-A138719] 13 p2033 N84-23182
The ideally polarizable interface: A solvable model and general sum rules
[AD-A138720] 13 p2036 N84-23207
ROSINGER, E. E.
Interacting weights in multiple attribute decision making
[CSIR-TWISK-270] 04 p0586 N84-13874
Aids for decision making with conflicting objectives
[CSIR-SWISK-32] 07 p1059 N84-16861
ROSINSKI, J.
Convergence of quadratic forms in p-stable random variables and theta sub p-radonifying operators
[AD-A135314] 08 p1219 N84-17959
ROSKAM, J.
Determination of the static performance of a Cuyuna cc model UL-430RR engine
[NASA-CR-175354] 07 p0953 N84-16179
Measurement of transmission loss characteristics using acoustic intensity techniques at the KU-FRL Acoustic Test Facility
[NASA-CR-173187] 07 p1069 N84-16942
General aviation aircraft interior noise problem: Some suggested solutions
[NASA-CR-173784] 19 p3099 N84-29685
ROSKE, H.
Reliability of electrical machines and drives, part 1
[BMFT-FB-T-83-163-PT-1] 07 p0899 N84-16480
Reliability of electrical machines and drives, part 2
[BMFT-FB-T-83-164-PT-2] 07 p0999 N84-16481
ROSKIND, J. A.
Edge display spanning trees and recovery in data communication networks
[AD-A134378] 07 p0993 N84-16437
ROSMAN, A.
Cost and performance analysis of visual and sensor simulation systems using Defense Mapping Agency data bases
[AD-A135955] 09 p1259 N84-18220
ROSNER, D. E.
Engineering correlations of variable-property effects on laminar forced convection mass transfer for dilute vapor species and small particles in air
[NASA-CR-168322] 09 p1313 N84-18578
Comparisons of rational engineering correlations of thermophoretically-augmented particle mass transfer with STAN5-predictions for developing boundary layers
[NASA-CR-168221] 10 p1471 N84-19606
Experimental and theoretical deposition rates from salt-seeded combustion gases of a Mach 0.3 burner rig
[NASA-TP-2225] 10 p1490 N84-19741
Deposition of Na2SO4 from salt-seeded combustion gases of a high velocity burner rig
[NASA-TM-83751] 21 p3398 N84-31558
ROSNER, G.
Report on measurements of terrestrial radiation in the Schwandorf area and the radiological load of the river Naab
[GSF-A-6/83] 16 p2520 N84-26180
ROSNER, J. L.
Theoretical high energy physics research
[DE84-009785] 19 p3103 N84-29716
ROSNER, R.
Multiple transonic solutions and a new class of shock transitions in solar and stellar winds 03 p0468 N84-13083
Formation of standing shocks in stellar winds and related astrophysical flows 03 p0469 N84-13088
ROSS, A. A.
Computer system design environment software development plan
[AD-A131651] 03 p0420 N84-12747
ROSS, B.
Increased voltage photovoltaic cell
[NASA-CASE-NPO-16155-1] 11 p1673 N84-20917
Development of an all-metal thick film cost effective metallization system for solar cells
[NASA-CR-173760] 19 p3049 N84-29350
ROSS, C. A.
Dynamic response of concrete and concrete structures
[AD-A139294] 14 p2158 N84-23928
ROSS, D. H.
Temporal measurement of spectrally resolved output of multiline HF lasers
[AD-A137983] 12 p1819 N84-21859
ROSS, D. L.
Recent solar measurements results at the parabolic dish test site 18 p2875 N84-28258
ROSS, D. S.
Study of nitration and oxidation in oxynitrogen systems
[AD-A132742] 05 p0650 N84-14271
ROSS, E. W.
Acceptance of a meal and its components: An exercise in missing data
[AD-P003852] 24 p3940 N84-34938
ROSS, H. B.
Atmospheric selenium
[CM-66] 17 p2728 N84-27366
ROSS, H. D.
Performance monitoring highlights of BERD programs 16 p2516 N84-26146
ROSS, J.
Theory and experiments on chemical instabilities
[AD-A140947] 18 p2810 N84-27841
ROSS, J. R.
Linguistics 22 p3684 N84-33359
ROSS, M.
High pressure equation of state of Li, Na and K
[DE83-014844] 02 p0191 N84-11238
Review of some recent theoretical calculations of phase transitions and comparisons with experimental results
[DE83-015863] 03 p0453 N84-12983
Mammalian gravity receptors: Structure and metabolism 09 p1353 N84-18840
ROSS, M. C.
Acceleration of high charge density electron beams in the SLAC linac
[DE84-012415] 21 p3497 N84-32161
ROSS, M. D.
Calcium ions, stores, and modulators: What is the gravity receptor connection? 02 p0264 N84-11733
ROSS, M. E.
Quality-assurance tests of five Y-12 Kevlar-49 spools used to fabricate strands and reliability specimens for stress-rupture tests
[DE84-012373] 21 p3357 N84-31295
ROSS, M. L.
Dynamic characteristics of a jet engine test facility air supply
[AD-A136910] 10 p1433 N84-19365
ROSS, P. N.
Application of surface-physics techniques to the study of electrochemical systems
[DE84-000957] 04 p0494 N84-13245
ROSS, R.
Acoustic wave propagation through shear layer of the German-Dutch open jet wind tunnel (DNW)
[NLR-MP-83003-U] 12 p1901 N84-22379
ROSS, R. G., JR.
Source-circuit design overview 22 p3582 N84-32684
Electrical insulation design requirements and reliability goals 22 p3583 N84-32691
ROSS, R. H.
Problem definition study on emission by-product hazards from diesel engines for confined space Army workplaces
[AD-A141377] 19 p3052 N84-29367
ROSS, R. I.
Small and light thyratron grid driver
[DE83-014941] 01 p0075 N84-10490
ROSS, R. R.
Models of the hard X-ray spectrum of AM Herculis and implications for the accretion rate
[NASA-TM-86045] 08 p1242 N84-18123
ROSS, S.
Physical processes in fluids
[NASA-CR-170990] 12 p1814 N84-21827
Lubricant foaming and aeration study, part 1
[AD-A141298] 18 p2819 N84-27896
ROSS, S. M.
Using simulation to estimate first passage distributions
[AD-A132328] 04 p0590 N84-13898
On the use of replacements to extend system life
[AD-A132878] 05 p0690 N84-14532
A random walk subject to a randomly changing environment
[AD-A133847] 05 p0739 N84-14854
Inspections with unknown detection probabilities
[AD-A136890] 10 p1573 N84-20310
ROSS, T. J.
Direct shear failure in reinforced concrete beams under impulsive loading
[AD-A133666] 05 p0693 N84-14551
ROSSBACHER, L. A.
Geomorphic studies of Mars 03 p0465 N84-13063
Glacial and periglacial landforms in Denmark: Scandinavian analogs for Martian features 13 p2085 N84-23507
Curvilinear ground on Mars: The search for terrestrial analogs 13 p2085 N84-23508
ROSSBY, T.
Studies of the velocity structure of the Gulf Stream east of Cape Hatteras
[AD-P002663] 11 p1691 N84-21028
ROSSER, B. L.
Symmetric set theory, a general theory of isomorphism, abstraction, and representation
[AD-A133630] 05 p0741 N84-14868
ROSSER, R. W.
Fluoroether modified epoxy composites
[NASA-CASE-ARC-11418-1] 02 p0187 N84-11213
Process for preparing perfluorotriazine elastomers and precursors thereof
[NASA-CASE-ARC-11402-1] 13 p1961 N84-22744
ROSSETTI, D. J.
Hard CPU related failures and system activity: Measurement and modelling
[AD-A130821] 01 p0119 N84-10772
Permanent CPU errors and system activity: Measurement and modelling
[AD-A134467] 07 p1052 N84-16814
ROSSI, C.
Test methodology for the level two subsystem of an X25 procedure for data terminal equipment
[FUB-3-1983] 10 p1483 N84-19694
ROSSI, G.
Marine remote sensing activities of the Joint Research Center, Ispra, Italy 03 p0396 N84-12586
Noise as a public health problem, volume 1
[AD-A142412] 21 p3436 N84-31799
Noise as a public health problem, volume 2
[AD-A142413] 21 p3436 N84-31800
ROSSI, G. C.
Canonical commutation relations and Gauss' law in the temporal gauge
[PREPRINT-360] 23 p3819 N84-34216
Local and global integrability of anomalous ward identities
[PREPRINT-364] 23 p3819 N84-34217
ROSSI, L.
Weldability of steels: Study of cracking and methods of examination
[BLL-RISLEY-TRANS-4519-(9091.9)] 22 p3550 N84-32475
ROSSI, M. L.
Effect of space environment on space-based radar phased-array antenna (A0133) 15 p2271 N84-24638
ROSSING, B. R.
Microstructure-property relationship for porous CaO stabilized ZrO2 support tubes 11 p1739 N84-21347
ROSSNAGEL, S. M.
Sputtering phenomena in ion thrusters
[NASA-CR-168172] 09 p1274 N84-18322
ROSSOW, M. P.
Design of helicopter rotor blades for optimum dynamic characteristics
[NASA-CR-175380] 08 p1103 N84-17171

ROSTOKER, N.
Collective-focusing ion accelerator
[DE83-012795] 02 p0290 N84-11899
High-current betatron, phase 1
[AD-A143748] 23 p3824 N84-34252
ROSTOVTSEV, A. M.
Feasibility anlysis of novel technological principles of producing multicomponent mechanisms
13 p1968 N84-22773
ROTH, E. P.
Measurement of thermal conductivity from high-temperature pulse diffusivity and calorimetry measurements
[DE84-000353] 04 p0503 N84-13297
Study of thermal fatique of soldered photovoltaic cells by thermal resistance measurement
[DE84-003764] 08 p1181 N84-17692
ROTH, F. T.
A simulation study of scene confusion factors in sensing soil moisture from orbital radar
[E84-10042] 04 p0552 N84-13635
ROTH, J.
Evaluation of surface storage facilities for explosives, blasting agents and other explosive materials
[PB84-168392] 17 p2639 N84-26886
The use of isotopically-enriched carbon probes for erosion deposition measurements in the ASDEX divertor
[DE84-012329] 20 p3307 N84-31006
ROTH, J. A.
Kinetics of solid-phase crystallization in ion-implanted and deposited amorphous-silicon films
[DE83-015499] 02 p0300 N84-11967
Microstructural stability of copper electroplate
[DE84-010070] 21 p3498 N84-32174
ROTH, L. E.
Is there radar evidence for liquid water on Mars?
13 p2088 N84-23529
ROTH, M.
Crystal growth and applications of mercuric iodide
[DE83-016731] 02 p0299 N84-11966
Interdisciplinary study of directional discontinuities in the solar wind with ISPM 09 p1263 N84-18242
Boundary layers in space plasmas: A kinetic model of tangential discontinuities
[AERONOMICA-ACTA-A-280-1984] 16 p2558 N84-26406
Study report on a modular photovoltaic power supply system for space application
[BMFT-FB-W-84-010] 19 p2983 N84-28904
ROTH, P.
Research in aeronomy
[NASA-CR-175370] 08 p1185 N84-17721
ROTH, R.
Meteorological and climatological conditions affecting the vertical structure of visibility in Northern Germany
[AD-A139126] 14 p2179 N84-24052
Meteorological and climatological conditions affecting the vertical structure of visibility in northern Germany
[AD-A144352] 24 p3934 N84-34902
ROTH, S. D.
Acoustic propagation in the surface layer under convectively unstable conditions
21 p3489 N84-32111
ROTH, W. L.
Particle scattering studies on foreign ions in superionic conductors
[AD-A137231] 10 p1588 N84-20406
ROTHBLUM, U. G.
Decomposition and scaling-inequality for line-sum-symmetric nonnegative matrices
[DE84-005639] 11 p1719 N84-21211
ROTHE, D. E.
Semiconductor processing with excimer lasers
[DE83-007509] 03 p0380 N84-12477
ROTHE, E.
Simulation of the reaction of optical systems in the manufacturing process
[BMFT-FB-T-84-128] 23 p3728 N84-33622
ROTHE, K. E.
Numerical simulation of the plasma current quench following a disruptive energy loss
[DE84-003151] 07 p1077 N84-17004
ROTHE, W. F.
New aircraft windshield applications using ion exchange glass
[AD-P003187] 17 p2590 N84-26600
ROTHEMUND, W.
Study of dry resistant techniques for electron beam lithography
[BMFT-FB-T-84-037] 19 p3028 N84-29206
ROTHENBERG, J. E.
Laser techniques for extreme-ultraviolet spectroscopy
[DE83-014834] 02 p0227 N84-11486
ROTHENFLUG, R.
Temperature and elemental abundances in the Abell cluster A 576 derived from X-ray observations
[NASA-TM-85103] 24 p3987 N84-35238
ROTHER, M.
Laser remote sensing measurements of natural target reflectivities 23 p3782 N84-33983
ROTHERAM, S.
Ocean wave imaging by SAR
06 p0867 N84-15649
A radio interference model for western Europe
15 p2325 N84-24963
Direct and inverse methods for ocean-wave imaging by SAR 23 p3783 N84-33995
ROTHERMEL, J.
Numerical simulation of convective scaling
03 p0406 N84-12660
Analysis of MSFC ground-based Doppler lidar data
24 p3929 N84-34867
ROTHGARY, E.
Development of GAP-TAGN-PEG propellants. Part 1: Study of ingredients 20 p3143 N84-29954
ROTHMAN, M. F.
Development of improved low-strain creep strength in Cabot alloy R-41 sheet
[NASA-CR-172392] 21 p3365 N84-31346
ROTHMUND, H.
Three-dimensional flow over a conical afterbody containing a centered propulsive jet: A numerical simulation 10 p1560 N84-20222
ROTHROCK, D. A.
Remote sensing of floe size distribution and surface topography
[E84-10132] 15 p2357 N84-25141
ROTHWARF, A.
Solar cell characterization by photocapacitance
[DE84-008215] 14 p2143 N84-23849
ROTHWELL, A.
An assessment of the static strength of flush head aluminum alloy rivets in two grades of aramid aluminium laminate (ARALL) sheet
[VTH-LR-391] 12 p1827 N84-21913
ROTHWELL, P. L.
Active experiments and single ion motion in the magnetotail 05 p0641 N84-14219
The Earth's radiation belts
[AD-A142673] 20 p3241 N84-30574
ROTHWELL, R. G.
Structural studies of the northwest Iberian continental margin using long-range side-scan sonar
[IOS-161] 15 p2366 N84-25198
ROTT, H.
Snow and ice monitoring by microwave techniques
08 p1176 N84-17660
ROTTA, J. C.
The Prandtl Hergesell project of a National Research Establishment for Aeronautics
[DFVLR-MITT-83-10] 08 p1096 N84-17123
ROTTGER, J.
Morphology of the scattering target: Fresnel and turbulent mechanisms 17 p2684 N84-27087
Spectral characteristics of the return
17 p2685 N84-27095
Interpretation of radar returns from clear air: Discrimination against clutter 17 p2685 N84-27096
Origin of refractive index fluctuations in the mesosphere as opposed to the stratosphere and troposphere
17 p2686 N84-27101
Techniques for measurements of horizontal and vertical velocities 17 p2686 N84-27104
Determination of vertical and horizontal wavelengths of gravity waves 17 p2688 N84-27119
Parametrization of Fresnel returns
17 p2689 N84-27124
Relationship of strength of turbulence to received power 17 p2689 N84-27126
Capabilities and limitations of EISCAT as an MST radar 17 p2690 N84-27129
VHF radar measurements during MAP/WINE
17 p2691 N84-27135
Chung-Li, Taiwan dual mode (Doppler and spaced antenna) VHF radar: Preliminary specifications
17 p2691 N84-27141
Correlation methods 17 p2695 N84-27167
ROTTMAN, G. J.
Observational evidence for solar wind acceleration at the base of coronal holes 03 p0468 N84-13082
Temporal variations of solar UV spectral irradiance caused by solar rotation and active region evolution
17 p2780 N84-27650
ROTTY, R. M.
Development of a data base for carbon dioxide releases resulting from conversion of land to agricultural uses
[DE83-015728] 03 p0402 N84-12626
Carbon dioxide emissions from fossil fuels: A procedure for estimation and results for 1950 - 1981
[DOE/NBB-0036] 19 p3052 N84-29365
Changing pattern of carbon dioxide emissions
[DE84-010086] 19 p3052 N84-29371
ROUCHOUSE, G.
Automation of a drop forge at the Centre Techniques des Industries Mecaniques (CETIM) forge section
[CETIM-1.3K.27.3] 21 p3376 N84-31423
ROUDNY, J.
Microelectronic components development in seventh 5-year plan described 18 p2827 N84-27947
ROUILLIER, G. J.
Automated en route air traffic control algorithmic specifications. Volume 1: Trajectory estimation
[AD-A137088] 10 p1426 N84-19328
ROUMIGUIERES, J. L.
Calculation of currents induced in a network of overhead power lines by an electromagnetic impulse
[SNIAS-841-422-109] 21 p3388 N84-31507
ROUQUEIROL, V. A. E.
Extensions and modifications to the ARL point-performance program
[AD-A142078] 21 p3328 N84-31113
ROUSE, M.
Postbuckling behavior of graphite-epoxy panels
20 p3146 N84-29976
ROUSE, W. B.
Pilot interaction with automated airborne decision making systems
[NASA-CR-173782] 19 p3068 N84-29464
ROUSH, R. T.
Study of aerodynamic technology for single-cruise engine V/STOL fighter/attack aircraft
[NASA-CR-166271] 19 p2956 N84-28737
ROUSSEL, J. C.
Data exchange and transfer structures
[SNIAS-832-111-103] 15 p2391 N84-25347
ROUSSET, S.
Time-dependent Child-Langmuir diode simulation
[AD-A136964] 10 p1570 N84-20288
ROUSSOPOULOS, N.
Research in programming languages and software engineering
[AD-A136037] 09 p1369 N84-18937
Evaluating multiple coordinated windows for programming workstations 13 p2027 N84-23146
ROUSSOS, L. A.
Studies of noise transmission in advanced composite material structures 20 p3146 N84-29977
Effect of external pressure environment on the internal noise level due to a source inside a cylindrical tank
[NASA-TM-85814] 21 p3346 N84-31226
ROUTE, G. P.
Efficient computer architectures for computing discrete Fourier transforms
[AD-A138109] 12 p1881 N84-22258
ROUTE, R. K.
Preparation of infrared optic fibers using new materials
[AD-A132311] 04 p0604 N84-13988
ROUTH, D. E.
Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-256704-1] 13 p1985 N84-22884
ROUWEN, A. J. P.
Ophthalmological investigation among contact lens wearers in military service
[REPT-AR/MHAM-1983-1] 21 p3458 N84-31940
ROUX, J. P.
Oxygen adsorption and initial oxidation of single crystal first row transition metal and alloy surfaces
06 p0816 N84-15316
Surface segration and diffusion investigations by means of AES 06 p0816 N84-15319
ROUX, S. J.
The Regulatory Functions of Calcium and the Potential Role of Calcium in Mediating Gravitational Responses in Cells and Tissues
[NASA-CP-2286] 02 p0262 N84-11720
Evidence for a regulatory role of calcium in gravitropism 02 p0262 N84-11721
Inhibition of gravitropism in oat coleoptiles by calcium chelation 09 p1352 N84-18831
ROVANG, D. C.
Ion extraction capabilities of two-grid accelerator systems
[NASA-CR-174621] 10 p1450 N84-19488
ROVEDA, R.
A digital ferrite phase-shifter for high power S-band operation 06 p0906 N84-15886
ROVNER, B. A.
General aviation activity and avionics survey
[AD-A139936] 15 p2254 N84-24536

ROWAN, L. C.
Evaluation of radiometric and geometric characteristics of LANDSAT-D imaging system
[E84-10050] 04 p0553 N84-13643
Application of Heat Capacity Mapping Mission data to regional geologic analysis for mineral and energy resource evaluation
[E84-10078] 07 p1021 N84-16625
ROWAN, M. J.
FEED (Field Exploitation of Elevation Data) evaluation
[AD-A131318] 02 p0277 N84-11612
ROWCLIFFE, A. F.
Effect of phosphorus on the swelling and precipitation behavior of austenitic stainless steels during irradiation
[DE84-000412] 04 p0499 N84-13275
ROWCLIFFE, D. J.
Silicon nitride joining
[AD-A136547] 09 p1287 N84-18404
ROWE, M. D.
The effects of relaxing automobile emission standards: A generic analysis and an urban case study
[DE84-000193] 04 p0560 N84-13693
ROWE, N. C.
Rule-based statistical calculations on a database abstract
[AD-A136638] 09 p1404 N84-19172
Some links between turtle geometry and analytic geometry
[AD-A138319] 12 p1882 N84-22269
Top-down statistical estimation on a database
[AD-A138318] 12 p1896 N84-22351
Diophantine inferences from statistical aggregates on few-valued attributes
[AD-A138365] 12 p1919 N84-22501
Absolute bounds on the mean and standard deviation of transformed data for constant-derivative transformations
[AD-A141854] 19 p3088 N84-29605
ROWE, R. K.
Nozzle performance calibration and turbomachinery operational analysis of Turbo-Powered Simulators (TPS) for the NASA-Langley EET propulsion airframe integration investigation
[NASA-CR-165949] 23 p3695 N84-33416
ROWE, R. W.
Fourier-processed images of dynamic lung function from list-mode data
[DE83-013276] 01 p0114 N84-10741
ROWLAND, F. S.
International Conference on Radiationless Transitions
[AD-A141407] 19 p3100 N84-29695
ROWLAND, J. A.
Uninstalled aero engine testing in operation in the Royal Air Force 16 p2453 N84-25731
ROWLETTE, J. J.
Chemically rechargeable battery
[NASA-CASE-NPO-16024-1] 13 p2007 N84-23020
ROWLEY, P. D.
Mineral resources of Antarctica 14 p2160 N84-23937
ROWLEY, R. L.
Prediction of multicomponent liquid-mixture viscosity from binary thermodynamic data
[DE83-011934] 04 p0536 N84-13524
ROWLEY, R. W.
A study of methods for alleviation of flow decay risk to the Galileo spacecraft 20 p3137 N84-29919
ROWNTREE, R. A.
Thermal conductance and torque of thin section four-point contact ball bearings in vacuum
[ESA-ESTL-54] 06 p0853 N84-15562
The stiffness torque and thermal conductance of thin-sector four-point contact ball bearings for use in spacecraft mechanisms 09 p1295 N84-18465
ROWSELL, I. H.
The manufacture and finishing of aluminium extrusion dies 09 p1293 N84-18447
ROWSON, M. A.
A study of the action of an airgun
[BU-296] 16 p2454 N84-25734
ROY, A. B.
An ancient depleted mantle source for Archean crust in Rajasthan, India 11 p1679 N84-20957
ROY, A. K.
Wave attenuation in damped periodic structures
[AD-A133736] 05 p0693 N84-14550
Synthesis of phosphorus-nitrogen polymers using Si-N-P reagents
[AD-A135224] 08 p1137 N84-17392
Wave attenuation in periodic structures
[AD-A138924] 13 p2001 N84-22984
ROY, D.
The effect of water on the dielectric performance of a cable
[BLL-OA-TRANS-2634-(6196.3)] 04 p0524 N84-13447
ROY, D. W.
Ceramic tube materials and processing development
[PB84-151653] 14 p2135 N84-23795
Polycrystalline MgAl2O4 spinel for high performance windows
[AD-P003202] 17 p2592 N84-26615
ROY, G.
Aerosol size distribution using the extinction-sedimentation inversion technique
[AD-A132158] 04 p0563 N84-13711
Determination of particle-size distribution by measuring the transmission of an aerosol in sedimentation
[AD-A133288] 06 p0918 N84-15962
ROYCE, B. S. H.
High temperature catalytically assisted combustion
[AD-A133864] 05 p0648 N84-14259
A photoacoustic study of chemically active systems
[AD-A134663] 08 p1125 N84-17311
The role of surface generated radicals in catalytic combustion 11 p1613 N84-20555
ROYEN, P.
The blue-green spectrum of gaseous Pb2 wave numbers and constants of the FOu+ - XOg+ system
[USIP-84-06] 20 p3151 N84-30009
ROYERE, C.
Starprobe thermal shield evolution 10 p1448 N84-19462
ROYLANCE, M. E.
Characterization of cumulative damage in composites during service 01 p0033 N84-10210
The effect of moisture on the properties of an aramid/epoxy composite
[AD-A131132] 02 p0188 N84-11222
ROYRVIK, O.
Jicamarca mesospheric observations 17 p2686 N84-27100
Spaced antenna drift 17 p2687 N84-27108
The Urbana MST radar, capabilities and limitations 17 p2691 N84-27136
ROYSTER, D. M.
Metal matrix composite structural panel construction
[NASA-CASE-LAR-12807-1] 02 p0187 N84-11214
Curved cap corrugated sheet
[NASA-CASE-LAR-12884-1] 23 p3700 N84-33450
ROYTENBURD, S. R.
Electrosleep in prophylaxis of psychoneural stress and recovery of mental performance in operators 18 p2895 N84-28367
ROZAK, G. A.
Mechanical behavior of carbon-carbon composites
[NASA-CR-174767] 24 p3878 N84-34575
ROZANOV, B. V.
Hydraulic presses
[AD-A139822] 16 p2477 N84-25877
ROZAS, P.
Doppler radar having phase modulation of both transmitted and reflected return signals
[NASA-CASE-MSC-18675-1] 13 p1975 N84-22820
ROZENDAAL, A. H.
The effects of marginal vitamin deficiency on mental performance
[IZF-1983-29] 18 p2914 N84-28483
ROZENDAAL, R. A.
High Reynolds number tests of a Boeing BAC I airfoil in the Langley 0.3-meter transonic cryogenic tunnel
[NASA-TM-81922] 18 p2786 N84-27684
ROZENFELD, P.
A preliminary definition of the Brazilian Complete Space Mission (MECB) ground segment
[INPE-3036-NTE/215] 17 p2612 N84-26717
ROZENFELD, S. K.
Drift movement of aerosol particles in field of atmospheric gravity waves 17 p2708 N84-27242
ROZHIKHINA, I. D.
The practical use of data as to the solution enthalpies of molten Fe-V-Si
[BLL-M-35430-(5828.4)] 08 p1129 N84-17342
ROZOVSKIY, M. K.
Self-similar regimes of nonstationary turbulent convection 17 p2698 N84-27185
ROZYCKI, A.
Synchronous generators with superconductive excitation windings
[AD-A131832] 03 p0366 N84-12382
Unipolar machine with superconductive excitation winding
[AD-A131820] 03 p0366 N84-12383
ROZZELL, T. C.
Bioelectromagnetics research in West Germany: An assessment
[AD-A144297] 24 p3935 N84-34911
Bioelectromagnetics research in France: An assessment
[AD-A144305] 24 p3936 N84-34912
RUBEN, D. J.
SPEC-DOC: A user's guide to spectrometer software
[DE83-013295] 02 p0274 N84-11790
RUBEN, H. D.
The Civil Aircraft Airworthiness Data Recording Programme 06 p0775 N84-15079
RUBENSTEIN, D. M.
Upper ocean shear during JASIN: A deterministic and statistical analysis
[AD-A139077] 14 p2183 N84-24082
RUBERT, R. R.
Design and fabrication of circular and rectangular components for electron-cyclotron-resonant heating of tandem mirror experiment-upgrade
[DE84-003244] 07 p1078 N84-17010
Circular waveguide systems for electron-cyclotron-resonant heating of the tandem mirror experiment-upgrade
[DE84-003739] 08 p1233 N84-18062
Microwave measurement test results of circular waveguide components for Electron Cyclotron Resonant Heating (ECRH) of the Tandem Mirror Experiment-Upgrade (TMX-U)
[DE84-009538] 19 p3108 N84-29746
RUBIN, A. G.
NASCAP simulations of spacecraft charging of the SCATHA satellite 08 p1117 N84-17268
Dual maxwellian space plasma modeling by the logarithmic method
[AD-A137131] 10 p1585 N84-20387
Shuttle Orbiter charging in polar Earth orbit
[AD-P002116] 16 p2524 N84-26202
Polar code development
[AD-P002122] 16 p2524 N84-26208
High voltage solar array models and Shuttle tile charging
[AD-P002123] 16 p2525 N84-26209
RUBIN, C. T.
Stress fractures: The remodelling response to excessive repetitive loading
[AD-A130881] 06 p0887 N84-15765
Static versus dynamic loads as an influence on bone remodelling
[NASA-CR-173365] 09 p1360 N84-18887
Regulation of bone mass by mechanical strain
[NASA-CR-173363] 09 p1360 N84-18888
Control of bone remodelling by applied dynamic loads
[NASA-CR-173287] 09 p1361 N84-18889
RUBIN, G. S.
Integrated evaluation of the quality of steel cable wire
[BLL-M-35267-(5828.4)] 06 p0854 N84-15564
RUBIN, I.
Performance evaluation and control of distributed computer communication networks
[AD-A135121] 08 p1215 N84-17928
RUBIN, J.
An operating system and memory switch for the S-1 computer
[DE84-013094] 20 p3267 N84-30731
RUBIN, K.
Radiation pressure on atoms: Laser cooling and intense field effects
[AD-A143637] 23 p3754 N84-33793
RUBIN, M.
Advanced optical and thermal technologies for aperture control 16 p2517 N84-26156
RUBIN, R. T.
Stress biochemistry: Non-invasive measurement techniques in military subjects
[AD-A141598] 19 p3065 N84-29447
RUBIN, V. M.
Propagation of gas jet in liquid 21 p3480 N84-32057
RUBINCAM, D. P.
Postglacial rebound observed by Lageos and the effective viscosity of the lower mantle
[NASA-TM-84982] 04 p0562 N84-13705
The orbit of Lageos and solar eclipses
[NASA-TM-86076] 12 p1923 N84-22525
Lageos orbit and the albedo problem 20 p3221 N84-30464
Lageos orbit and solar eclipses 20 p3221 N84-30485
RUBINOV, A. N.
New type of dye laser with light-induced distributed feedback 21 p3482 N84-32067
RUBINSHTEIN, I.
Contributions of academic institutes to effectiveness of new technology in the Georgian SSR 01 p0056 N84-10363
RUBINSTEIN, A. A.
Diffusive relaxation of stress concentrations at grain boundary cavities in elevated temperature creep 02 p0297 N84-11950

RUBINSTEIN, F. R.
Comparison of technologies for new energy-efficient lamps
[DE83-015949] 03 p0369 N84-12401
RUBY, L.
Efficient radiation-hardened, 400- and 800-keV neutral-beam injection systems
[DE83-015691] 03 p0440 N84-12886
RUCHTI, J.
Prospective use of a mobile radiation system to validate techniques of radiation estimations from satellite records 10 p1536 N84-20064
RUCK, H. W.
Safety training priorities
[AD-A141711] 19 p3002 N84-29026
RUDCHENKO, A. V.
Fracture resistance of hardened and tempered pipes of 16GFR steel
[BLL-M-35268-(5828.4)] 06 p0857 N84-15584
RUDD, D.
Teaching Ada (trademark) at Hampton Institute
[AD-P003420] 20 p3270 N84-30752
RUDD, G. E.
Shock absorbing missile launch pad
[AD-D011173] 23 p3698 N84-33436
RUDD, M. J.
Laser generation of ultrasound
[AD-A138483] 12 p1821 N84-21870
RUDDELL, H. J.
Behaviour of four non-migratory antioxidants in solid polyethylene insulation 11 p1721 N84-21228
RUDDY, F. H.
Imaging of fast-neutron sources using solid-state track-recorder pinhole radiography
[DE84-001466] 05 p0685 N84-14504
RUDENKO, A. I.
Effect of multifold trapping of carriers on transient photocurrent in amorphous semiconductors 17 p2635 N84-26860
RUDEY, R. A.
A review of NASA combustor and turbine heat transfer research
[NASA-TM-83541] 05 p0631 N84-14146
RUDIGIER, H.
Superconducting ground state of a strongly interacting electron system: UBe13
[DE84-001708] 06 p0923 N84-16003
RUDMIK, A.
DCP (Distributed software engineering control process): Experience in bootstrapping an Ada (trademark) environment
[AD-P003424] 20 p3270 N84-30756
RUDNICK, R. L.
Metamorphic fluids and uplift-erosion history of a portion of the Kapuskasing structural zone, Ontario, as deduced from fluid inclusions 11 p1680 N84-20982
RUDNIK, P. J.
The measurement of elastic constants for the determination of stresses by X-rays
[AD-A132330] 04 p0590 N84-13897
RUDNITSKI, D. M.
Performance derivation of turbojets and turbofans from tests in sea-level test cells 16 p2453 N84-25728
RUDNYY, N. M.
The concept of working capacity of the flight crew 08 p1202 N84-17837
RUDOLPH, F. J.
Flight test techniques used for proof of structural integrity of Tornado when carrying external stores 24 p3849 N84-34413
RUDOLPH, G.
Measures for the improvement of the continuous casting procedure (electromagnetic stirring)
[BMFT-FB-T-83-138] 02 p0207 N84-11348
RUDOLPH, L. K.
MPD thruster comparisons with advanced chemical systems for auxiliary propulsion applications 20 p3139 N84-29928
RUDOLPH, R. C.
Guidance and actuation systems for an adaptive-suspension vehicle
[AD-A139111] 14 p2155 N84-23910
RUDOLPH, W.
Cycle of waste heat energy transformation
[BMFT-FB-T-83-173] 07 p1026 N84-16652
RUDY, T. A.
Hyperpyrexia and head trauma
[AD-A139420] 14 p2185 N84-24090
RUDY, T. E.
Numerical solution to the steady state equation of transfer in azimuthally symmetric geometries
[DE84-001781] 06 p0845 N84-15509
RUDYAYEV, F. I.
Changes in Earth's rotation rate caused by zonal tide and their manifestations in atmospheric pressure field 20 p3224 N84-30487
RUECKLE, G.
Circuit Board Intermediate Language (CBIL): A data base for circuit board description
[IND-FB-110] 09 p1369 N84-18942
RUEDENAUER, F.
Surface analysis by particle beams 06 p0814 N84-15301
RUEEGSEGGER, P.
The potential of low dose computed tomography in assessing space flight induced bone loss 23 p3807 N84-34141
RUEGSEGGER, T.
Integrated Computer-Aided Manufacturing (ICAM) architecture, part 3. Volume 5: Composite function model of manufacture product (MFG0)
[AD-A142337] 20 p3272 N84-30766
Integrated Computer-Aided Manufacturing (ICAM) architecture. Part 3, Volume 6: Composite information model of 'Manufacture product' (MFG1)
[AD-A143072] 21 p3466 N84-31973
RUEHL, F.
Observation of nonlinear phenomena 10 p1584 N84-20385
RUEHL, K.
Radiation and particle emission from a 1.6 kJ plasma focus 10 p1581 N84-20362
RUFENACH, C. L.
Optimum backscatter cross section of the ocean as measured by synthetic aperture radars 17 p2714 N84-27276
SAR imagery of ocean-wave swell traveling in an arbitrary direction 17 p2714 N84-27278
RUFF, G.
A high resolution stepping motor 09 p1297 N84-18476
RUFF, I.
Determination of the planetary radiation budget from TIROS-N satellites
[PB84-100916] 08 p1189 N84-17748
RUFFIE, J. P.
Preparation of standard electrical testability provisions for space equipment. Volume 1: Executive summary
[DM.51/CV/JP/327.83-VOL-1] 08 p1153 N84-17507
Preparation of standard electrical provisions for space equipments
[DM.51/CV/JP/327.83-VOL-2] 08 p1153 N84-17508
RUFFNER, G.
Implementing microprocessor technology in aircraft electrical power generating system control 03 p0336 N84-12185
RUFFT, D. J.
Electrical-shock prevention. Volume 2: Ground-fault interrupting devices
[PB84-102953] 08 p1206 N84-17868
RUGGERI, R. T.
Development of multicomponent transport theory and transport data for membranes in concentrated electrolytes
[DE84-001846] 04 p0495 N84-13249
Determination of the effect of composition, structure and electrochemical mass transport properties on adhesion and corrosion inhibition of paint films
[AD-A138487] 12 p1801 N84-21746
RUGGLES, A. E.
Open-cycle vapor compression heat pump
[PB83-228429] 01 p0059 N84-10384
RUHOU, Z.
Domestic satellite communication system to be established in China 24 p3891 N84-34635
RUIJGROK, G. J. J.
Lecture notes on the principles and practice of airplane performance prediction. Part 1: Basic elements
[VTH-LR-385-VOL-1] 10 p1429 N84-19345
Lecture notes on the principles and practice of airplane performance prediction. Part 2: Point-performance in steady symmetric and unsymmetric flight
[VTH-LR-385-VOL-2] 10 p1429 N84-19346
Lecture notes on the principles and practice of airplane performance prediction. Part 3: Path performance in quasi steady and unsteady symmetric flight
[VTH-LR-385-VOL-3] 10 p1429 N84-19347
RUITENBEEK, K.
Proprioception 20 p3264 N84-30714
RUIZ, W.
Difficulties of scientific and technological planning
[INPE-2786-PRE/352] 23 p3832 N84-34308
RUIZHANG, G.
International aviation (selected articles)
[AD-A140895] 17 p2601 N84-26671
RUKA, R.
Some non-electrochemical requirements for air electrode materials of high temperature solid electrolyte fuel cells 11 p1742 N84-21363
RUKAVINA, T. G.
Protective linear materials for transparent plastics
[AD-P003204] 17 p2592 N84-26617
RULE, D. W.
The beam-density effect on energy loss of a relativistic charged particle beam
[AD-A139051] 13 p2041 N84-23241
RULEY, J. D.
The SCEPTRE facility: Improved simulation of the space environment through the application of advanced technology 24 p3862 N84-34474
RUMBAUGH, W. A.
Accuracy and speed of response to different voice types in a cockpit voice warning system
[AD-A135595] 09 p1301 N84-18503
RUMBURG, J. P.
Hot-spot investigations of utility scale panel configurations 22 p3582 N84-32687
RUMELHART, D. E.
Representation in memory
[AD-A130662] 01 p0117 N84-10757
RUMINER, K.
Proceedings of the 16th LAMPF Users-Group Meeting
[DE83-013215] 03 p0382 N84-12488
RUMPH, K. K.
Viscometric changes of engine oils
[REPT-12] 12 p1800 N84-21738
RUMYANTSEV, S. L.
The 1/f noise in conditions of high geometrical magnetoresistances 17 p2636 N84-26862
RUMYANTSEV, V. V.
Normal human coronary circulation during postural tests and decompression of lower half of body 02 p0259 N84-11699
Nomogram for demonstrating change in central venous and pulmonary artery pressure during decompression of different parts of the body 20 p3255 N84-30660
Simulation of physiological effects of negative pressure on man 20 p3255 N84-30662
RUNBORG, C.
Information technique 1982: Underwater technique
[FOA-C-30296-E1,E2,E3] 07 p1085 N84-17058
RUNDE, C. P.
National Aeronautics and Space Act of 1958, as amended and related legislation
[GPO-24-491] 03 p0460 N84-13032
RUNDELL, D. N.
Study of ebullated bed fluid dynamics
[DE84-010230] 20 p3187 N84-30251
RUNGE, F. C.
STEP flight experiments Large Deployable Reflector (LDR) telescope 08 p1112 N84-17231
RUNGTA, R.
Creep fatigue of low-cobalt superalloys: Waspaloy, PM U 700 and wrought U 700
[NASA-CR-168260] 04 p0498 N84-13285
RUNXIANG, Z.
A study of the different solution methods for nonlinear problems
[ISD-304] 15 p2396 N84-25376
RUNYAN, J.
Performance demonstration of a high-power space-reactor heat-pipe design
[DE83-012688] 01 p0145 N84-10952
RUNYAN, R. B.
Dynamic certification of a thrust-measuring system for large solid rocket motors 06 p0860 N84-15603
RUNYON, D. L., JR.
A simple model for the depolarizing effects of rain and ice on Earth-satellite links in the 10 to 30 GHz frequency range
[NASA-CR-174482] 02 p0211 N84-11382
RUO, S. Y.
LANN (Lockheed, AFWAL, NASA-Langley and NLR) wing test program: Acquisition and application of unsteady transonic data for evaluation of three-dimensional computational methods
[NASA-CR-174466] 01 p0005 N84-10032
RUOHO-AIROLA, T.
Formation of acid deposition: Atmospheric chemical tranformation and deposition
[REPT-107] 07 p1027 N84-16654
RUOXI, C.
Study of the fatigue crack propagation characteristics of YB-3 and YB-4 aeronautical organic glass 20 p3160 N84-30069
RUPASOV, A.
Noncubic magnetic anisotropy in YSmLuCaFeGe garnet films 20 p3287 N84-30869
Dynamics of plasma corona on spherical targets irradiated by laser 20 p3288 N84-30878
RUPASOV, A. S.
Heating and implosion of spherical targets irradiated by laser 20 p3288 N84-30879

RUPE, U.
Center of mass correction and its confidence for the Precise Orbital Positioning Satellite (Popsat)
24 p3906 N84-34738
RUPP, S.
The effect of recycling on cast structures and the internal character of IN100 alloy: A laboratory study
23 p3705 N84-33485
RUPPEL, I.
Ceramic component manufacturing technology development
[PB84-215276] 22 p3561 N84-32550
RUPPEN, J. A.
Accelerated compatibility testing using corrosion fatigue techniques
[DE83-015104] 03 p0353 N84-12296
RUPPERSBERG, G. H.
Foundations of a numerical model of slant visibility
[ESA-TT-757] 16 p2557 N84-26403
RUPPERT, U.
Optimized He 2 cooling systems for space application. Behavior and handling of superfluid helium at G = 0, phase 1
[BMFT-FB-W-83-008] 02 p0207 N84-11349
Optimized He 2 cooling systems for space application. Behavior and handling of superfluid helium at g = 0, phase 2
[BMFT-FB-W-84-006] 19 p3025 N84-29185
RUPRECHT, E.
Radiation and clouds, the International Satellite Cloud Climatology Project (ISCCP) 10 p1535 N84-20060
RUSALOV, V. M.
Structure of formal-dynamic properties of human psyche in signal systems interaction 18 p2898 N84-28383
RUSCHAU, J. J.
Mechanical property evaluation of P/M (Powder-Metallurgy) aluminum 7090-T7E71 plate
[AD-A132058] 03 p0352 N84-12290
Fatigue crack growth rate data for aluminum alloy 6061-t651 plate
[AD-A140325] 16 p2469 N84-25824
RUSH, C. M.
Estimates of millimeter wave attenuation for 18 United States cities
[PB83-240630] 02 p0211 N84-11381
Global maps of foF2 derived from observations and theoretical values
[PB84-163906] 15 p2369 N84-25215
RUSH, H. F.
Grain-refining heat treatments to improve cryogenic toughness of high-strength steels
[NASA-TM-85816] 20 p3152 N84-30014
RUSH, R. M.
Estimation of small area populatons using remote sensing and other approaches
[DE84-003404] 08 p1178 N84-17678
RUSHFORD, M. C.
Room-temperature thermal optical bistability in thin-film interference filters and dye-filled etalons
14 p2234 N84-24402
RUSHIN, C.
Hematologic and biochemical data on healthy individuals participating in a physical conditioning program
[AD-A140464] 16 p2536 N84-26278
RUSINKO, R. N.
Study to establish cost projections for production of Redox chemicals
[NASA-CR-167881] 02 p0241 N84-11580
RUSS, A.
The performance of 16000 wire mini-drift MWPC system 06 p0912 N84-15922
RUSS, D. E.
Proceedings of the Workshop on Multivariable Control Systems
[AD-A139050] 15 p2253 N84-24529
Reconfigurable digital control laws for the A-7D DIGITAC 2 aircraft with failed primary control surfaces
[AFIT/GE/EE/82D-59] 15 p2254 N84-24535
RUSSEL, J. H.
Corporate DP planning: New approaches and new concerns
[PNR-90180] 13 p2064 N84-23386
RUSSELL, A. J.
Moisture and temperature effects on the mixed-mode delamination fracture of unidirectional graphite/epoxy
[DREP-TM-83-22] 12 p1789 N84-21685
RUSSELL, C. T.
Multiple spacecraft observations of interplanetary shocks: Characteristics of the upstream ULF turbulence
03 p0470 N84-13097
ISEE observations of magnetopause reconnection: The energy balance 08 p1185 N84-17720
Patterns of magnetic field merging sites on the magnetopause 16 p2572 N84-26511
Characteristics of the magnetospheric source of interplanetary energetic particles
16 p2573 N84-26512
Magnetic field draping against the dayside magnetopause 16 p2573 N84-26514
The magnetic field of Mars: Implications from gasdynamics modeling 16 p2573 N84-26515
RUSSELL, D. L.
Control theory of hyperbolic systems
[AD-A135146] 08 p1218 N84-17952
The Dirichlet-Neumann boundary control problem associated with Maxwell's equations in a cylindrical region
[AD-A137937] 11 p1715 N84-21184
Distributed parameter control techniques with application to adaptive control of certain flutter phenomena, November 1, 1982 to October 31, 1983
[AD-A140943] 18 p2923 N84-28540
Control theory of partial differential equations
[AD-A140945] 18 p2924 N84-28541
Control theory of partial differential equations
[AD-A142636] 20 p3279 N84-30812
RUSSELL, J. A.
INTERMD: A computer program to predict intermodulation product generation on two-way FM radio frequencies
[DE84-013767] 22 p3578 N84-32661
Development of accelerated fuel-engine qualification procedures
[AD-A143845] 23 p3693 N84-33406
RUSSELL, J. W.
An empirical method for predicting the mixing noise levels of subsonic circular and coaxial jets
[NASA-CR-3786] 09 p1385 N84-19048
Electrochemically Modulated Infrared Spectroscopy (EMIRS). Experimental details
[AD-A137040] 10 p1455 N84-19503
Simulation of an electronic countermeasure technique
[AD-D011143] 22 p3572 N84-32619
RUSSELL, L. M.
Design and construction of deep tubesheet crevice devices for producing intergranular attack of heat transfer tubing
[DE83-902228] 01 p0045 N84-10287
RUSSELL, M. D.
Symbol-stream combiner: Description and demonstration plans 22 p3574 N84-32632
RUSSELL, M. J.
RSRE speech data base recordings (1983). Part 1: Specification of vocabulary and recording procedure
[AD-A139361] 15 p2318 N84-24916
RUSSELL, O.
Evaluation of LANDSAT-D Thematic Mapper performance as applied to hydrocarbon exploration
[E84-10154] 19 p3038 N84-29275
RUSSELL, P. E.
Magnetron sputtered gold contacts on n-GaAs
09 p1393 N84-19098
RUSSELL, R. J.
Multi-directional gaging probe
[DE83-012855] 01 p0085 N84-10551
Coordinate-measuring machine capability
[DE84-002014] 04 p0539 N84-13544
Three-axis gaging probe
[DE84-015087] 23 p3752 N84-33784
RUSSELL, S. J.
Petrography and depositional environment of the Herrin (no. 6) seam in central, eastern and northwestern Illinois
21 p3436 N84-31813
RUSSELL, W. H.
Objective speech quality evaluation of real-time speech coders
[AD-A141194] 18 p2829 N84-27959
RUSSO, A.
The role of aeroelasticity in the preliminary design of helicopter rotors 02 p0172 N84-11130
RUSSO, A. J.
A users manual for the laser welding code WELD2D
[DE84-011167] 20 p3197 N84-30306
Quality Assurance (QA) procedures for computer software in department 1510
[DE84-012131] 20 p3273 N84-30778
RUSSO, S. C.
Computer program for analysis of split-Stirling-cycle cryogenic coolers 06 p0820 N84-15344
RUST, K.
Evaluation of bidirectionally conducting thyratrons for pulsed excimer lasers
[DE84-013890] 22 p3602 N84-32818
RUST, W. D.
Severe storm electricity 24 p3926 N84-34851
Severe storm electricity 24 p3927 N84-34860
RUSTAN, P. L.
Airborne lightning characterization
[AD-A130627] 06 p0881 N84-15733
RUSTER, R.
Complementary code and digital filtering for detection of weak VHF radar signals from the mesoscale
17 p2690 N84-27134
VHF radar measurements during MAP/WINE
17 p2691 N84-27135
The mobile Sousy-Doppler radar: Technical design and first results 17 p2693 N84-27152
RUSTHOI, D. P.
Operational parameters of a 2.0-MeV RFQ linac
[DE84-011368] 21 p3387 N84-31498
RUTAN, H. L.
Ultrasonic machining (impact grinding)
[DE84-007783] 15 p2344 N84-25069
RUTBERG, P. O.
The military aircrew work environment
[FOA-A-59005-H1-H2] 18 p2915 N84-28490
RUTENBURG, V. V.
Dynamic sequence assignment
[AD-A136548] 09 p1384 N84-19037
RUTH, M.
Evaluation of LANDSAT-D Thematic Mapper performance as applied to hydrocarbon exploration
[E84-10154] 19 p3038 N84-29275
RUTHBERG, Z. G.
Guideline for computer security certification and accreditation. Category: ADP (Automatic Data Processing) operations. Subcategory: Computer security. Federal information processing standards
[FIPS-PUB-102] 20 p3268 N84-30736
RUTHER, W. E.
Evaluation of stainless steel pipe cracking: Causes and fixes
[DE84-003459] 09 p1285 N84-18391
Effect of sulfuric acid, oxygen, and hydrogen in high-temperature water on stress corrosion cracking of sensitized Type 304 stainless steel
[DE84-007276] 15 p2298 N84-24795
RUTLEDGE, K. W.
Wind tunnel modelling of buoyant plumes
[QUEL-1513/84] 15 p2256 N84-24552
RUTLEDGE, S. A.
A numerical study of cloud and precipitation processes in mesoscale rainbands 04 p0566 N84-13729
RUTLEDGE, S. K.
Coaxial carbon plasma gun deposition of amorphous carbon films
[NASA-TM-83600] 10 p1587 N84-20404
Sputtered coatings for protection of spacecraft polymers
[NASA-TM-83706] 17 p2626 N84-26803
RUTSAY, S. V.
Bilateral carotid ligation and effects of electromagnetic field on conditioned reflex retention and cerebral nucleic acid levels 20 p3258 N84-30677
RUTSCH, A. H.
Baroclinic Rossby wave signature in a general circulation ocean model
[AD-A132219] 04 p0569 N84-13750
RUUSILA, J.
Note on standardization of implant tests
[VTT-RR-189] 02 p0198 N84-11288
Determination of weld hydrogen content
[VTT-240] 15 p2296 N84-24777
RUVALDS, J.
Magnetic impurities in superconductors
[DE84-007871] 14 p2243 N84-24467
RUYACABA-RUIZ, D.
Geology and origin of the Aquila iron deposit in southwestern Michoacan, Mexico
22 p3613 N84-32890
RUYS, J. P.
Automated standard nautical chart production
[AD-A132249] 04 p0553 N84-13644
RUZICKA, A.
Spatial distribution of craters on the Moon and Callisto
15 p2426 N84-25574
Callisto: A lunar-like bombardment?
15 p2426 N84-25575
RUZMAYKIN, A. A.
Periods of activity cycles in late-type stars
[NASA-TM-77297] 07 p1091 N84-17094
RYABCHENKO, V. A.
Modeling seasonal evolution of thermal regime of ocean-atmosphere system 17 p2697 N84-27181
Asymptotic form of solution of problem of seasonal evolution of thermal regime in ocean
17 p2699 N84-27194
RYABUKHO, V. P.
Holographic image subtraction by recording in Fourier plane and space filtration with thin light beam
20 p3289 N84-30882
RYACK, B. L.
A test of electroluminescent panels for a helicopter emergency escape lighting system
[AD-A139478] 14 p2103 N84-23616

RYALI, S. B.
Collisional energy exchange in polyatomic molecules
[AD-A133942] 05 p0744 N84-14886
RYALL, T. G.
Maximum likelihood estimation of linear dynamic system parameters
[AR-002-934] 03 p0425 N84-12780
Initial estimates of damping rates and frequencies
[ARL-STRUC-NOTE-485] 04 p0587 N84-13879
RYAN, B. C.
WNDCOM: Estimating surface winds in mountainous terrain
[PB84-157700] 13 p2018 N84-23083
RYAN, C. E., JR.
Antenna pattern measurements to characterize the out-of-band behavior of reflector antennas
[AD-A136199] 09 p1304 N84-18525
RYAN, C. J.
A constrained-clustering approach to the analysis of remote sensing data
[AD-A139124] 14 p2169 N84-23993
RYAN, D.
Automatic control of a visual physiology experiment, using MINC
[AD-A140607] 17 p2745 N84-27431
RYAN, E. A.
High-voltage analytical electron microscopy
[DE83-014318] 01 p0085 N84-10554
RYAN, G. G.
Tanker orbit transfer vehicle and method
[NASA-CASE-MSC-20543-1] 13 p1939 N84-22610
RYAN, J. W.
A comparison between Lageos laser ranging and VLBI determined baselines 20 p3220 N84-30459
RYAN, R. E.
Telecommunications and data acquisition support for the Pioneer Venus Project: Pioneers 12 and 13, prelaunch through March 1984
[NASA-CR-173893] 22 p3539 N84-32403
RYAN, T.
High energy electromagnetic shower position measurement by a fine grained scintillation hodoscope 06 p0912 N84-15928
A measurement of the response of an SCG1-C scintillation glass shower detector to 2-17.5 GeV positrons 06 p0913 N84-15930
RYAN, T. W., III
Development of carbon slurry fuels for transportation (hybrid fuels, phase 2)
[NASA-CR-174659] 19 p2992 N84-28960
RYBA, E. P.
Studies of polymer-bound macrocyclic polytertiary phosphines
[AD-A135718] 09 p1288 N84-18408
RYBA, J.
Design of a project plan for the establishment of a lunar factory
[ILR-MITT-123] 10 p1435 N84-19379
RYBACH, J.
Schlieren diagnostics at SPEED 1 10 p1583 N84-20373
Breakdown phenomena in SPEED 1 10 p1583 N84-20374
RYBAKOVA, L. M.
Dependence of realizability of selective mass transfer during friction of aluminum bronzes against steel on composition of lubricating fluid 17 p2641 N84-26901
Dependence of realizability of selective mass transfer during friction of tin bronzes against steel in hydraulic system mechanisms on concentration of alloying elements 17 p2642 N84-26902
RYBICKI, E. F.
Evaluation of stainless steel pipe cracking: Causes and fixes
[DE84-003459] 09 p1285 N84-18391
RYBICKI, G.
Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] 07 p0967 N84-16266
RYBIN, I. A.
Psychophysics of proprioceptive sensibility 21 p3456 N84-31933
RYDELEK, P. A.
Observations of long-period motions of the Earth at the South Pole 21 p3440 N84-31823
RYDER, C. M.
Benchmarking relational database machines' capabilities in supporting the database administrators' functions and responsibilities
[AD-A137413] 10 p1593 N84-20437
RYDER, D. E.
Management of QA in an R and D organization
[DE83-016924] 03 p0458 N84-13014
RYDER, G.
Workshop on Pristine Highlands Rocks and the early History of the Moon
[NASA-CR-174584] 03 p0465 N84-13059
RYDER, J. T.
A study of stiffness, residual strength and fatigue life relationships for composite laminates
[NASA-CR-172211] 20 p3146 N84-29978
RYDYGIER, E.
Studies on ion beams produced in a plasma focus, part 2 10 p1582 N84-20364
RYE, B. J.
The use of TEA and multiatmosphere CO2 lasers in active remote sensing 24 p3907 N84-34749
RYE, R. R.
Understanding localized behavior in the Auger spectra of covalent systems such as graphite
[AD-A133924] 05 p0647 N84-14255
RYGE, P.
Development of a segmented n-type germanium detector, and its application to astronomical gamma-ray spectroscopy
[NASA-TM-85435] 03 p0461 N84-13039
RYGWELSKI, K. R.
Partitioning of toxic trace metals between solid and liquid phases in the Great Lakes
[PB84-177849] 20 p3230 N84-30525
RYKALIN, N. N.
Effect of concentrated energy streams on materials: Problems and prospects 12 p1784 N84-21638
Specifics of structure formation in nitrides synthesized by laser action on metals 12 p1784 N84-21640
RYLAND, G.
Perturbation methods for slightly damped gyroscopic systems 04 p0537 N84-13534
RYLEY, J. F., JR.
Fiber optics expanded beam connector
[AD-A131125] 02 p0294 N84-11929
RYMAN, D. H.
Minicomputer administered tasks in the study of effects of sustained work on human performance
[AD-A133870] 05 p0715 N84-14688
Extending human effectiveness during sustained operations through sleep management
[AD-A134782] 08 p1200 N84-17825
RYNARD, C.
Structure-activity correlations for organophosphorus ester anticholinesterases. Part 2: CNDO/2 calculations applied to ester hydrolysis rates
[NASA-TM-85888] 07 p0966 N84-16257
RYNDIN, V.
Activated aluminum alloy for generating hydrogen fuel 23 p3705 N84-33490
RYNDINA, R. G.
The oxidation of porous metals
[BLL-TRANS-IZ.148-(5828.4)] 01 p0042 N84-10270
RYTTER, L. J.
Managing a low quantity, high technology trainer development program
[AD-P003464] 21 p3511 N84-32241
RYUTIN, A. A.
Stable method for solving linear programming problem with approximate data 21 p3484 N84-32077
RYUTOV, D. D.
Flute instability of plasma in a gas-dynamic trap
[DE84-013348] 23 p3828 N84-34284
Influence of plasma flow on flute instability
[DE84-013314] 23 p3829 N84-34285
RYZHECHKIN, S. A.
New type of dye laser with light-induced distributed feedback 21 p3482 N84-32067
RYZHIK, B. V.
Balancing of flexible rotors with simultaneous precise determination of influencing factors 13 p1974 N84-22808
RYZHIKOV, A. A.
Influence of microplastic deformations on spheroidization of cementite in steel
[BLL-M-35503-(5828.4)] 12 p1795 N84-21711
RYZHIKOV, G. V.
Spatiotemporal structure of quanta of industrial work and its physiological basis 18 p2897 N84-28379
RYZHKOV, G. M.
Determining the coefficient of heat transfer during the filtration of a heat-carrying agent through a coil
[BLL-M-35601-(5828.4)] 19 p3020 N84-29146
RYZHONKOV, D. I.
High temperature solid oxide electrolytes for research in metallurgical processes and steelmaking 11 p1740 N84-21352
RYZHOV, B. N.
Method for assessing mental stress in operators 02 p0262 N84-11715
RZHEVSKIY, V. V.
Emission effects of memory in rocks 17 p2705 N84-27227
RZHIGA, O. N.
Venera-15, -16 radar imagery of Venus 19 p2974 N84-28655

S

SA, L. D. A.
A study of the surface layer on an extremely rough surface
[INPE-2829-PRE/381] 02 p0248 N84-11621
SAAD, Y.
A hybrid Chebyshev Krylov subspace algorithm for solving nonsymmetric systems of linear equations
[AD-A139301] 14 p2213 N84-24291
SAADA, S.
Investigation of a microwave discharge in argon/helium mixtures
[LP-202] 07 p0995 N84-16451
Microwave discharges in capillary tubes
[LP-203] 16 p2558 N84-26410
Role of excitation frequency in discharges created by surface waves
[LP-205] 16 p2558 N84-26411
SAAMOILENKO, Z. A.
Influence of microalloying with titanium and boron on cold resistance of structural steel
[BLL-M-35698-(5828.4)] 22 p3551 N84-32483
SAARI, D. G.
An equality which yields zero velocity surfaces 19 p3117 N84-29810
SAARIO, T.
A microstatistical model for carbide induced cleavage fracture
[VTT-RR-220] 07 p1017 N84-16599
SABA, C. S.
Method for the particle size independent spectrometric determination of metal particles in lubricating oils and hydraulic fluids
[AD-D011121] 22 p3545 N84-32445
SABATH, R. J., III
The effect of aerobic capacity on VO2 max values measured during leg ergometry and combined arm and leg ergometry 10 p1548 N84-20149
SABELNIKOV, A. G.
Engineering method of calculating the temperature field of solid and hollow cylinders
[BLL-M-35561-(5828.4)] 17 p2665 N84-26995
SABERI, H. A.
Analytical model of rotor wake aerodynamics in ground effect
[NASA-CR-166533] 04 p0480 N84-13157
SABERI, R. T.
A general purpose guidance simulation program: Software definition
[BAE-BT-13122] 13 p2026 N84-23132
SABIN, C. M.
Thermal property measurement techniques and some results for CdTe
[AD-A133899] 05 p0753 N84-14936
Thermal property measurement techniques and some results for CdTe and (Hg,Cd)Te alloys
[AD-A139375] 14 p2242 N84-24462
SABINS, F. F., JR.
Geologic application of spaceborne radars 07 p0987 N84-16391
SABISKY, E. S.
Thin-film photovoltaic research and development program of the Solar Energy Research Institute
[SERI/TP-211-2125] 23 p3829 N84-34290
SABLA, P. E.
Clean catalytic combustor program
[NASA-CR-168323] 06 p0789 N84-15151
SABO, N. A.
Computerized art plotting system. Volume 1: Horizontal bar charts (second edition)
[DE83-018113] 04 p0582 N84-13839
SABOL, B. A.
Beam propagation experimental study
[AD-A133310] 06 p0915 N84-15948
SABRI, S.
Coding of full motion color video signals at 50 kb/s
[AD-A134319] 08 p1146 N84-17456
SACCHI, C. J.
Research salaries
[INPE-2971-NTE/209] 23 p3832 N84-34307
SACCHI, E.
The thermal design of L-SAT large telecommunication satellite 10 p1441 N84-19414
SACCO, M.
Development and assessment of the Monark cycle ergometer for anaerobic muscular exercise
[AD-A133173] 06 p0847 N84-15523

SACCO, V.
Statistical data on anomalous propagation in the Tyrrhenian Sea using an X-band link
06 p0871 N84-15668

SACHELARIE, D.
Technology of the radiation hardened MOS devices
[AD-A139995] 13 p2047 N84-23283

SACHELARIE, M.
Technology of the radiation hardened MOS devices
[AD-A139995] 13 p2047 N84-23283

SACHER, R. E.
The dicyandiamide cure of SP-250 epoxy resin accelerated by monuron
[AD-A129667] 01 p0050 N84-10320

SACHS, E. M.
Edge Stabilized Ribbon (ESR); stress, dislocation density and electronic performance 18 p2937 N84-28630

SACHS, G.
Direct force control 01 p0014 N84-10090

SACK, F.
Amyloplast movement in living statocytes
09 p1351 N84-18830

SACKETT, S. J.
Efficient large-scale finite-element computations in a CRAY environment
[DE83-014946] 06 p0896 N84-15818

SACKHEIM, R. L.
Tracking and Data Relay Satellite launch recovery mission 20 p3137 N84-29918

SACKINGER, W. M.
Arctic ice island and sea ice movements and mechanical properties
[DE84-014324] 23 p3803 N84-34116

SADANA, D. K.
Annealing of interstitial loops in arsenic implanted silicon
[DE84-000394] 05 p0755 N84-14953

SADANANDA, K.
Fatigue crack growth behavior of an oxide dispersion strengthened MA956 alloy
[AD-A142059] 21 p3421 N84-31702

SADCHIKOVA, M. N.
New trends in standardization of electromagnetic microwave radiation 07 p1044 N84-16767

SADEGHI, A. M.
Data documentation for the bare soil experiment at the University of Arkansas, June - August 1980
[NASA-CR-173325] 09 p1336 N84-18725

SADEH, W. Z.
Turbulence effect on laminar separation on a circular cylinder 15 p2314 N84-24869

SADEK, A. G.
Use of the one-dimensional theory of the filament of flow for the interpretation and synthesis of mufflers in exhaust pipes of internal combustion engines
[REPT-81.4] 03 p0383 N84-12494

SADEK, H. S. I.
Initial decay of flow properties of planar, cylindrical and spherical blast waves
[UTIAS-TN-244] 03 p0371 N84-12416

SADIGHI-BONABI, R.
High power fast pulse lasers
17 p2673 N84-27033

SADIK, A. M.
A study of the stiffened tubular joints using finite element method 17 p2679 N84-27061

SADLER, J. C.
Mean upper tropospheric flow over the global tropics, volume 1
[AD-A141227] 18 p2889 N84-28341
Mean upper tropospheric flow over the global tropics, volume 2
[AD-A141484] 19 p3058 N84-29402

SADLER, R. F.
History of aircraft escape system propulsion
20 p3141 N84-29941

SADOVSKIY, M. A.
Characteristic rock dimensions and hierarchical properties of seismicity 18 p2863 N84-28176

SADOVSKIY, V. D.
Critical current of the dispersion superconducting phase, obtained during aging
[AD-A136024] 09 p1396 N84-19118

SADOVSKIY, V. S.
Vortical-potential flow of ideal fluid along plane with depression 17 p2646 N84-26927

SADOWAY, D. R.
Transport phenomena in improved electrochemical cell design for the production of magnesium
[DE84-010567] 19 p2969 N84-28944
Transport phenomena in improved electrochemical cell design for the production of magnesium
[DE84-008436] 19 p2995 N84-28978

SADOWSKI, F. G.
Study of Thematic Mapper and Multispectral Scanner data applications 20 p3215 N84-30421

SADOWSKI, M.
Preliminary investigations of 360 kJ plasma focus device, part 2 10 p1581 N84-20359
Studies on ion beams produced in a plasma focus, part 2 10 p1582 N84-20364

SADR, R.
UCLA demodulation engine
[AD-A135912] 09 p1309 N84-18556

SADREDDINI, S. M.
Load control of a 300 hp tunnelling machine: Controller modification and testing for underground trials
[RR-230] 05 p0688 N84-14524

SADY, C. A.
ANALYSIS/PLOT: A graphics package for use with the SORT/ANALYSIS data bases
[DE83-017886] 04 p0583 N84-13847

SAEKAI, S.
Numerical analysis on the ion species ratios in a steady state hydrogen plasma
[IPPJ-687] 23 p3826 N84-34269

SAEKS, R.
Feedback systems and simultaneous design
[AD-A143547] 22 p3644 N84-33102

SAEN, H.
Development of copper-coated aluminum-shielded wire 11 p1719 N84-21214

SAENGER, G.
Leak detector for spacecraft testing with high accuracy 24 p3863 N84-34486

SAENGER, K. L.
Atomic resonance and scattering
22 p3681 N84-33339

SAFFMAN, P. G.
The stability of inviscid vortex streets of finite cored vortices
[AD-A139311] 14 p2145 N84-23855
Finite-amplitude interfacial waves
[AD-A142767] 21 p3444 N84-31849

SAFLEKOS, N. A.
Estimates of precipitating electron power flux from simultaneous DMSP auroral image and ISEE-1 AKR observations
[AD-P002109] 16 p2523 N84-26195

SAFONOV, A. N.
Hardening alloy surfaces by laser irradiation
24 p3869 N84-34518

SAFONOVA, M. A.
Structure of quasi-hyperbolic stochasticity in inertial self-excited oscillator 18 p2823 N84-27923

SAFRAY, A. S.
Modeling seasonal evolution of thermal regime of ocean-atmosphere system 17 p2697 N84-27181

SAFRONOV, S. P.
Vortex motion in a precombustion chamber with intersecting jets
[AD-A139040] 13 p1956 N84-22717

SAGALYN, R. C.
Proceedings of the Air Force Geophysics Laboratory Workshop on Natural Charging of Large Space Structures in Near Earth Polar Orbit
[AD-A134894] 16 p2521 N84-26185

SAGAR, B.
Numerical modeling of parametric uncertainties in flow through porous media: Development and initial testing of PORSTAT
[DE84-006682] 11 p1654 N84-20798

SAGARA, S.
Suboptimal LQ control problem using reconstructed state feedback control law 07 p0982 N84-16364

SAGAYEV, M. V.
Evaluations of coefficient of vertical exchange in lower thermosphere 18 p2864 N84-28185

SAGDEEV, R. Z.
Beam plasma discharge and suprathermal electron tails 05 p0637 N84-14192
Electron acceleration in the front of intense collisionless shock waves
[PR-813] 06 p1154 N84-17511

SAGDEYEV, R.
Commentary on Prognoz-9 satellite
09 p1264 N84-18253

SAGDEYEV, R. Z.
Three-element radiointerferometer with very long baselines 19 p2974 N84-28853

SAGE, A. P.
A knowledge based interactive procedure for planning and decision support under uncertainty and parameter imprecision
[AD-P002890] 13 p1979 N84-22851
An evaluation of ARIADNE (alternative ranking interactive aid based on dominance structure information elicitation)
[AD-P002891] 13 p1980 N84-22852

SAGE, K.
Geometric modeling of large space antenna deployment 12 p1876 N84-22225

SAGE, R. P.
The Archean crust in the Wawa-Chapleau-Timmins region. A field guidebook prepared for the 1983 Archean Geochemistry-Early Crustal Genesis Field Conference
11 p1681 N84-20969

SAGE, S.
A machine learning approach to student modeling
[AD-A141704] 19 p3080 N84-29547

SAGER, R. E.
Regeneration experiments below 10K in a regenerative-cycle cryocooler 06 p0818 N84-15332
4.0 K cryocooler project
[DE84-000332] 06 p0822 N84-15358
A conceptual design study for the secondary mirror drive of the shuttle infrared telescope facility (SIRTF)
[NASA-CR-166562] 10 p1501 N84-19813

SAGER, W. W.
Seamount paleomagnetism and Pacific plate tectonics
11 p1677 N84-20943

SAGGESE, E.
The small transmitter receiver stations in the Sirio experiment
[FUB-50-1982] 06 p0826 N84-15386

SAGITOV, M. U.
Possible interpretation of discrepancy in results of absolute gravity determination at Sevres
17 p2703 N84-27215

SAGOT, J. M.
A technique for simulating conduction interference created by electromagnetic pulses (EMP)
[SNIAS-841-422-104] 21 p3388 N84-31502

SAGUEZ, C.
Numerical analysis of a Stefan problem
[AD-A132823] 05 p0737 N84-14838

SAH, C. T.
Investigation of charge coupled devices for signal processing
[AD-A139820] 15 p2329 N84-24985

SAH, R. C.
Advanced light source
[DE83-012894] 01 p0143 N84-10940

SAHA, A.
A survey of halo RR Lyrae stars
13 p2069 N84-23409

SAHA, N. C.
Medium- and high-pressure sonic leak pinpointing
[PB83-228361] 01 p0086 N84-10557

SAHAI, Y.
Tidal and solar cycle effects on the OI 5577 angstrom, NaD and OH(8,3)airglow emissions observed at 23 deg S
[INPE-2901-PRE/419] 02 p0248 N84-11620
Maximum entropy spectral analysis of total zone
[INPE-2979-PRE/441] 07 p1032 N84-16694
The night airglow O2(1-Sigma) atmospheric band at 8645A and the rotational temperature observed at 23 deg S
[INPE-3021-PRE/459] 12 p1846 N84-22034
Vertical and horizontal phase propagation in the mesopause region observed by the OI5577 angstrom, O/sub 2 atmospheric band, NaD and OH(8,3) band nightglow emissions
[INPE-3022-PRE/460] 12 p1846 N84-22035
Equatorial plasma bubble eastward velocity characteristics from scanning airglow photometer measurements over Cachoeira Paulista
[INPE-3026-PRE/464] 12 p1847 N84-22039
Low latitude F-region studies using the OI6300 angstrom and 7744 angstrom nightglow measurements at Cachoeira Paulista, Brazil
[INPE-3025-PRE/463] 12 p1847 N84-22040

SAHAMI, S.
Electrochemical and spectroscopic studies of polypyridine complexes of Fe(2)/(3) and Ru(2)/(3) in the aluminum chloride: N-(1-Butyl)Pyridinium chloride molten salt
[AD-A139170] 14 p2122 N84-23715

SAHARON, D. B.
Turbulence effect on laminar separation on a circular cylinder 15 p2314 N84-24889

SAHAY, C.
Vibration of overhead transmissions lines 4
10 p1506 N84-19854

SAHLIN, C.
Color order systems for computer graphics. Part 1: Transformation of Natural Color System (NCS) data into CIELAB color space
[FOA-C-53013-H2] 18 p2922 N84-28528

SAHM, A.
Feasibility study on a new type of personal noise protection
[BMFT-FB-HA-84-017] 18 p2915 N84-28489

SAHM, K. F.
Alpha jet pylon 14 p2093 N84-23556

SAHNI, S.
Scheduling supercomputers
[AD-A132512] 04 p0579 N84-13822
A Systolic Design Rule Checker (SDRC)
[AD-A136194] 09 p1378 N84-19006
SAHU, J.
Numerical computation of base flow for a projectile at transonic speeds
[AD-A130293] 01 p0004 N84-10027
Navier-Stokes computations of projectile base flow at transonic speeds with and without base injection
[AD-A135783] 09 p1252 N84-18176
SAHU, S. N.
Defect studies in semiconductors
05 p0752 N84-14931
SAIBEL, E. A.
A numerical technique in the hydrodynamic theory of foil bearings
[AD-P002966] 14 p2200 N84-24204
SAIJA, R.
The elements of the rotation matrices in terms of Rodriguez's parameters
[AD-A136550] 09 p1376 N84-18968
Scattering properties of a moving dielectric object
[AD-A142845] 21 p3386 N84-31489
SAIKKONEN, S. L.
Factory splicing of optical waveguide fiber
11 p1720 N84-21222
SAILER, C. T.
Knowledge-based expert systems for crop identification 21 p3428 N84-31744
The potential of AI techniques for remote sensing
21 p3428 N84-31748
SAILLARD, J. Y.
C-h and h-h activation in transition metal complexes and on surfaces
[AD-A136468] 09 p1279 N84-18350
SAITO, C. A.
Advanced strain-isolation-pad material with bonded fibrous construction
[NASA-CR-166599] 23 p3723 N84-33592
SAITO, F.
Present state of research in Japan on toxicities of gases during fire 04 p0511 N84-13349
US-Japan cooperative research on evaluation of toxicity 04 p0514 N84-13375
Proposed plan for joint research program between Japan, the USA and Canada concerning gas toxicity in fires 04 p0514 N84-13378
SAITO, K.
Scaling laws on fire spread 04 p0513 N84-13368
Lunar exploration by polar orbiter
[NAL-TR-755] 09 p1416 N84-19265
Organic materials for ceramic molding processes
[NASA-TM-77438] 19 p2997 N84-28991
SAITO, S.
Application of an adaptive blade control algorithm to a gust alleviation system
[NASA-TM-85848] 01 p0012 N84-10079
Numerical analyses for scrape-off plasmas in FER divertor chamber 11 p1734 N84-21313
A study of helicopter gust response alleviation by automatic control
[NASA-TM-85870] 14 p2111 N84-23655
SAITO, T.
An analytical and numerical study of the interaction of rarefaction waves with area changes in ducts. Part 1: Area reductions
[UTIAS-272] 11 p1651 N84-20780
Normal reflection of a shock wave at a rigid wall in a dusty gas
[UTIAS-274] 12 p1815 N84-21829
SAITO, T. T.
Precision machining application and technology: An overview and perspective
[AD-A135988] 09 p1390 N84-19075
SAITO, Y.
Field trial of composite fiber-optic overhead ground wire 11 p1720 N84-21221
SAITTO, A.
Development of a slotted waveguide array panel for SAR antenna: Electrical design and testing
[IEC-MO-80/11] 23 p3732 N84-33656
SAIZ, M.
The 310 airbus test in the ONERA wind tunnel: Flight-wind tunnel comparison 14 p2098 N84-23587
Airbus A-310. Tests in the ONERA's F1 wind tunnel: Comparison of flight/wind tunnel
[SNIAS-832-111-110] 15 p2257 N84-24556
SAKA, P. M.
Effects of simultaneous phosphorus and arsenic diffusions on emitter push and dislocation generation
[AD-A132331] 04 p0612 N84-14042
SAKAGUCHI, I.
Development of a new, completely implantable intraventricular pressure meter and preliminary report of its clinical experience
[NASA-TM-77121] 16 p2535 N84-26276
SAKAI, J.
Loop coalescence in flares and coronal X-ray brightening
[DE83-013070] 04 p0621 N84-14099
Computer modeling of fast collisionless reconnection
[DE84-006714] 14 p2229 N84-24367
SAKAI, J. I.
Non-stochastic acceleration of protons in the magnetic neutral sheet
[IPPJ-646] 06 p0919 N84-15975
SAKAI, K.
The dc acceleration of charged particles by an electrostatic wave propagating obliquely to a magnetic field vector B sub O
[IPPJ-671] 19 p3106 N84-29735
Relativistic vector sub p x vector sub b acceleration of charged particles by an obliquely propagating electrostatic wave
[IPPJ-680] 21 p3500 N84-32183
SAKAKIBARA, S.
A new method of evaluating the side wall interference effect on airfoil angle of attack by suction from the side walls
[NASA-TM-77722] 24 p3852 N84-34432
SAKAMOTO, C.
Argentina wheat yield model
[E84-10101] 12 p1828 N84-21919
Argentina soybean yield model
[E84-10102] 12 p1828 N84-21920
Brazil wheat yield covariance model
[E84-10103] 12 p1829 N84-21921
Brazil soybean yield covariance model
[E84-10104] 12 p1829 N84-21922
Argentina corn yield model
[E84-10105] 12 p1829 N84-21923
SAKAMOTO, D.
A method for manufacturing a polyether halohydrin polymer and its derivatives
[AD-A130083] 02 p0199 N84-11298
SAKAMOTO, H.
A study of liquid hydrogen cooled LO2/LH2 rocket combustor with channel wall construction
[NAL-TR-767] 16 p2459 N84-25763
SAKATA, A.
Quenched Carbonaceous Composite (QCC): A likely candidate for interstellar grains
16 p2571 N84-26501
Quenched Carbonaceous Composite (QCC): A likely candidate for interstellar grains
18 p2949 N84-28699
SAKBANI, K.
Optical measurements of droplet size distributions: Special considerations in the parameter definition for fuel atomizers 15 p2290 N84-24745
SAKELL, L.
Pseudospectral solution of inviscid flows with multiple discontinuities
[AD-A132084] 04 p0534 N84-13510
SAKHANOVA, V. V.
Waveguide CO2 laser with 7.5 W power rating
21 p3487 N84-32098
SAKHAROV, V. V.
Structural features of polycrystalline ZnSe and solid solutions ZnSa sub I-x S sub x 12 p1788 N84-21659
SAKIYAMA, S.
Japanese research institutes funded by private corporations
[AD-A140892] 17 p2772 N84-27600
Numerical analysis on the ion species ratios in a steady state hydrogen plasma
[IPPJ-687] 23 p3826 N84-34269
SAKON, T.
Study on creep-fatigue life prediction using simple high temperature low cycle fatigue testing machines
[PB83-224121] 01 p0086 N84-10559
SAKS, N. S.
Method for fabricating MNOS structures utilizing hydrogen ion implantation
[AD-D011123] 22 p3661 N84-33208
SAKSIDA, M. F.
The economics of computerized information dissemination 18 p2948 N84-28678
SAKUMA, K.
Characteristics of grindability of P/M high speed steel: Influence of peripheral wheel speed on wheel wear and surface quality 07 p0984 N84-16371
Study on deep-hole boring by BTA system solid boring tool: Burnishing effect and guiding action of tool head
07 p0984 N84-16372
SAKURAI, T.
Behaviors of polymer additives under EHL and influences of interactions between additives on friction modification 14 p2154 N84-23908
SALAMA, K.
Nondestructive measurement of bulk residual stresses
[AD-A134600] 07 p1013 N84-16573
SALAMAN, R. K.
Policy implications of information technology
[PB84-183219] 20 p3316 N84-31060
SALAMON, D.
Structure and stability of finite dimensional approximations for functional differential equations
[AD-A136324] 09 p1373 N84-18966
The linear quadratic optimal control problem for infinite dimensional systems with unbounded input and output operators
[AD-A139333] 14 p2214 N84-24296
Finite dimensional compensators for infinite dimensional systems with unbounded control action
[AD-A142808] 21 p3472 N84-32002
Spline approximation for retarded systems and the Riccatti equation
[AD-A142963] 21 p3473 N84-32010
SALAS, M. D.
Spectral methods for the Euler equations: Chebyshev methods and shock-fitting
[NASA-CR-172295] 08 p1095 N84-17118
Spectral methods for the Euler equations: Fourier methods and shock-capturing
[NASA-CR-172294] 08 p1095 N84-17119
SALAZAR, S.
Computer science and technology: Report on approaches to database translation
[NBS-SP-500-115] 20 p3268 N84-30739
SALBERGER, P.
On K-theory of conical fibrations
[CTH-MATH-1983-25] 17 p2761 N84-27540
On Chow groups of conic bundle surfaces
[CTH-MATH-1984-12] 23 p3820 N84-34228
SALDIVAR, J. T.
An analysis of potential protective breathing devices intended for use by aircraft passengers
[AD-A132648] 05 p0716 N84-14692
The objective evaluation of aircrew protective breathing equipment. 5: Mask/goggles combinations for female crewmembers
[AD-A134912] 08 p1201 N84-17830
SALEMANN, V.
Inlet flow field investigation. Part 1: Transonic flow field survey
[NASA-CR-172239] 06 p0782 N84-15123
Inlet flowfield investigation. Part 2: Computation of the flow about a supercruise forebody at supersonic speeds
[NASA-CR-172315] 12 p1766 N84-21516
SALERNO, J. P.
Electronic properties of grain boundaries in GaAs: A study of oriented bicrystals prepared by epitaxial lateral overgrowth
[AD-A144358] 24 p3967 N84-35118
SALERNO, L. J.
Thermal conductance measurements of pressed OFHC copper contacts at liquid helium temperatures
[NASA-TM-85861] 03 p0429 N84-12809
SALERNO, M.
System hardware for the implementation of frame protocol in packet switched networks
[FUB-58-1981] 05 p0731 N84-14803
Linear prediction methods
[FUB-52-1982] 06 p0902 N84-15858
An efficient method for the conversion to residue number systems and its application to convolutions
[FUB-53-1982] 14 p2220 N84-24319
SALES, G. S.
HF over-the-horizon mapping of the Greenland icecap
06 p0868 N84-15654
SALFI, R. E.
Vector wind, horizontal divergence, wind stress and wind stress curl from SEASAT-SASS at one degree resolution
17 p2720 N84-27313
Synoptic scale wind field properties from the SEASAT SASS
[E84-10169] 21 p3426 N84-31732
SALFNER, P.
Development of an ultrasonic testing procedure for electron beam welded parts for aerospace applications
[BMFT-FB-W-72-011] 03 p0386 N84-12515
SALHI, H.
Analysis and control of a class of stiff linear distributed systems
[AD-A142364] 20 p3280 N84-30821
SALIK, A.
Solar-blind Raman lidar, phase 2
[AD-A137604] 11 p1732 N84-21295

SALIK, J.
A review of the use of wear-resistant coatings in the cutting-tool industry
[NASA-TM-83512] 02 p0199 N84-11295
A study of nucleation and growth of thin films by means of computer simulation: General features
[NASA-TM-83559] 08 p1222 N84-17982
Ion-beam nitriding of steels
[NASA-TM-83599] 12 p1797 N84-21719
Erosion of iron-chromium alloys by glass particles
[NASA-TP-2354] 19 p2993 N84-28965
SALISBURY, D. K.
Modeling of water quality in Lake Michigan and the effect of the anomalous ice cover of 1976 - 1977
[PB84-167667] 16 p2511 N84-26115
SALISBURY, F. B.
Gravitropism in leafy dicot stems
09 p1355 N84-18857
SALISBURY, J. D.
Design analysis of an aluminum-air battery for vehicle operations: Transportation systems research
[DE83-014488] 01 p0163 N84-11071
SALISBURY, J. W.
Evaluation of radiometric and geometric characteristics of LANDSAT-D imaging system
[E84-10050] 04 p0553 N84-13643
Analysis of LANDSAT-4 TM data for lithologic and image mapping purpose 20 p3209 N84-30390
SALISCHEV, G. A.
Plasticity of large-grain titanium alloy type VT30 in the beta area 23 p3706 N84-33508
SALIVAR, G. C.
Statistics of crack growth in engine materials. Volume 2: Spectrum loading and advanced techniques
[AD-A140920] 17 p2680 N84-27072
SALJE, E.
Aspects of the grinding process
[CSIR-TRANS-1694] 08 p1140 N84-17416
SALLES, C. E. R.
Combustion instability: Measurement of acoustic admittance in solid propellant
[INPE-2789-NTE/201] 07 p0980 N84-16352
SALMASI, A. B.
Land Mobile Satellite Service (LMSS) channel simulator: An end-to-end hardware simulation and study of the LMSS communications links
[NASA-CR-173744] 18 p2828 N84-27956
SALMON, L. T. J.
A future system design technique based on functional decomposition, supported by quantifiable design aims, and guidelines for minimum maintenance costs
06 p0769 N84-15039
SALMON, M.
The Concorde and aeronautical research
[NASA-TM-76973] 09 p1249 N84-18153
SALMON, R.
Hamilton's principle as the basis for ocean circulation models
[AD-P002658] 11 p1690 N84-21023
SALMON, Y. L.
Delayed effects of proton irradiation in Macaca muletta. 3: Glucose intolerance
[AD-A142289] 20 p3256 N84-30669
SALNITSKIY, V. P.
Method for assessing mental stress in operators
02 p0262 N84-11715
SALO, H.
Numerical simulations of collisions in self-gravitating systems 24 p3967 N84-35237
SALO, S. A.
Winter currents on the eastern Bering Sea shelf
[PB83-248823] 04 p0570 N84-13753
SALOMON, M.
Augmentation of fighter-aircraft performance by spanwise blowing over the wing leading edge
03 p0326 N84-12133
SALOMON, P. M.
Programmable scan/read circuitry for charge coupled device imaging detectors
[NASA-CASE-NPO-15345-1] 13 p2042 N84-23247
SALONEN, E.
Observations of variable millimeter wave radio sources at Metsaehovi 09 p1413 N84-19245
A computer program for point-surface microwave continuum observation
[REPT-S-141] 15 p2320 N84-24925
SALSTEIN, D. A.
Outlook for improved numerical weather prediction using satellite data with a special emphasis on the hydrological variables
[AD-A141233] 18 p2890 N84-28344
SALTAT, R. C.
Nickel-iron battery system safety
[NASA-CR-173962] 23 p3744 N84-33733
Nickel-iron battery system safety
[NASA-CR-173937] 23 p3790 N84-34035
SALTER, R. M.
A programmable bus control interface
[AD-P003536] 21 p3332 N84-31140
SALTSMAN, J. F.
Bending fatigue of electron-beam-welded foils. Application to a hydrodynamic air bearing in the Chrysler/DOE upgraded automotive gas tubine engine
[NASA-TM-83539] 07 p1016 N84-16589
SALTZMAN, B.
Observational and theoretical studies of the evolving structure of baroclinic waves 24 p3925 N84-34845
SALUAN, M.
Connecting aircraft and external loads
06 p0770 N84-15046
SALVAIL, J. R.
A generalized behavioral model for rotating short period comets with spectral orbital elements and axial orientation 13 p2075 N84-23451
SALYER, I. O.
Phase change materials for use in passive and hybrid solar heating and cooling systems
16 p2518 N84-26164
SALZ, P.
Operation of a computer aided drafting system: Improvement, results and hopes
[DE84-005176] 11 p1708 N84-21134
SALZANO, F. J.
Proceedings of the Conference on High Temperature Solid Oxide electrolytes. Volume 1: Anion conductors
[BNL-51728-VOL-1] 11 p1738 N84-21342
Proceedings of the Conference on High Temperature Solid Oxide Electrolytes. Volume 2: Cation conductors
[BNL-51728-VOL-2] 11 p1742 N84-21368
Water vapor electrolysis: Systems considerations and cost/performance benefits
[DE84-007389] 21 p3374 N84-31410
SALZBERG, F.
Fire management-suppression system-concepts relating to aircraft cabin fire safety
[FAA-CT-82-134] 05 p0628 N84-14130
SALZBRENNER, R.
Fracture-toughness testing of ductile cast irons
[DE83-010824] 01 p0046 N84-10294
Accelerated compatibility testing using corrosion fatigue techniques
[DE83-015104] 03 p0353 N84-12296
Single specimen J-integral testing
[DE83-016069] 03 p0390 N84-12543
SALZER, D. T.
L band satellite communication experiment in the Antartic
[ESA-TT-805] 03 p0362 N84-12356
SALZMAN, G. C.
Rapid microbial identification by circular intensity differential scattering
[DE84-013894] 22 p3629 N84-32993
SALZMAN, J. A.
A comparison of the domestic satellite communications forecast to the year 2000
[NASA-TM-83516] 01 p0062 N84-10405
SALZMAN, K. A.
Clustering and ordering in 3-5 alloys
[AD-A131785] 03 p0452 N84-12974
SAMANNI, G.
Advanced ND techniques for composite primary structures 01 p0034 N84-10216
SAMARA, G. A.
Effects of pressure on deep electronic levels in semiconductors
[DE83-016247] 02 p0299 N84-11965
Structural phase transitions at high pressure: Quantum effects
[DE84-005724] 11 p1745 N84-21390
SAMBAMURTHI, J. K.
Behavior of aluminum on the burning surface of a solid propellant 05 p0662 N84-14351
Dependence of burning rate of AP-polymer sandwiches on thickness of the binder laminae
13 p1946 N84-22653
Conditions for inflammation of accumulated aluminum in the propellant combustion zone
13 p1947 N84-22660
Combustion of ammonium perchlorate-polymer sandwiches
[AD-A139873] 15 p2302 N84-24814
SAMBE, H.
Photon-stimulated ion desorption from condensed CO and N2
[AD-A133925] 05 p0647 N84-14254
Comparison of autoionization and photoelectron spectra of CO
[AD-A133902] 05 p0647 N84-14256
SAMEJIMA, F.
Information loss caused by noise in models for dichotomous items
[AD-A131369] 02 p0280 N84-11834
Effect of noise in the three-parameter logistic model
[AD-A131667] 03 p0416 N84-12721
SAMET, H.
Application of hierarchical data structures to geographical information systems
[AD-A134999] 08 p1177 N84-17670
SAMET, M. G.
Mental representation of circuit diagrams: Individual differences in procedural knowledge
[AD-A136876] 10 p1550 N84-20159
SAMIR, U.
The interaction of large space structures with the near-Earth environment
[AD-P002115] 16 p2523 N84-26201
SAMMELLS, A. F.
Solar-assisted hydrogen generation by photoelectrocatalysis: Electric birefringence and ellipsometric spectroscopy of the semiconductor/electrolyte interface
[PB84-169804] 15 p2288 N84-24731
SAMMONS, V. O.
Quarks
[TB-83-7] 19 p3100 N84-29694
SAMMS, R. W.
Image-plane processing for improved computer vision
12 p1904 N84-22404
A simulation of remote sensor systems and data processing algorithms for spectral feature classification
[NASA-CR-172393] 22 p3597 N84-32784
SAMOLYUBOV, V. I.
Fluctuation of velocity distribution under influence of suspended particles on turbulence in bottom current
17 p2699 N84-27191
SAMOYLENKO, I. I.
Influence of variable magnetic field on bactericidal effect of ionizing radiation 07 p1043 N84-16765
SAMOYLENKO, Z. A.
Deformation and failure of titanium aluminide
23 p3709 N84-33510
SAMPATH, P.
Alternate fuels combustion research
[AD-A138575] 13 p1965 N84-22769
Fuel character effects on performance of small gas turbine combustion systems 15 p2290 N84-24738
SAMPSON, J. B.
Increased metabolism and dead space as components of ventilation at high altitude
[AD-A130827] 06 p0887 N84-15766
Variable inhibition by falling CO2 of hypoxic ventilatory response in man
[AD-A130658] 06 p0887 N84-15768
SAMPSON, R. E.
Understanding and utilization of Thematic Mapper and other remotely sensed data for vegetation monitoring
[E84-10150] 16 p2508 N84-26098
SAMPSON, W. B.
Correlation of superconductor strand, cable, and dipole critical currents in CBA magnets
[DE83-003951] 02 p0214 N84-11400
SAMSAMI, N.
Extending the lifetime of operational systems through corrosion tracking and prediction
[AD-A133931] 05 p0625 N84-14112
Corrosion in large aircraft: Management of the problem 11 p1631 N84-20666
SAMSETH, J.
Optical spectroscopy of disordered materials and X-ray scattering from surfaces 22 p3682 N84-33345
SAMSON, A. M.
Selfpulsing, hysteresis and chaos in a standing wave laser 14 p2239 N84-24439
SAMSON, J. A. R.
Absolute photoionization cross sections of atomic oxygen
[NASA-CR-173873] 21 p3492 N84-32130
SAMSONOV, Y. S.
Calculation of thermal stress state for components of metallurgical equipment by electric simulation
[BLL-M-35690-(5828.4)] 22 p3608 N84-32860
SAMUELS, R.
The STEP/STACBEAM experiment technology development for very large solar array deployers
08 p1110 N84-17220
SAMUELSEN, G. S.
Optical measurements of soot size and number density in a complex flow, swirl-stabilized combustor
15 p2292 N84-24753
SAMUELSON, G. R.
Evaluation of foam-skin cables for aerial applications
11 p1725 N84-21252
SAMUELSON, L. A.
Theoretical evaluation of the structural performance of Swedish fighter aircraft windshields subjected to bird impact
[AD-P003235] 17 p2597 N84-26648

SAMYLKIN, V. M.
Dependence of realizability of selective mass transfer during friction of tin bronzes against steel in hydraulic system mechanisms on concentration of alloying elements 17 p2642 N84-26902
SANBONGI, S.
Buckling strength of corrugated shear webs
[NAL-TR-759] 09 p1330 N84-18684
SANBORN, V. A.
Measurement of turbulent wind velocities using a rotating boom apparatus
[DE84-012417] 21 p3448 N84-31875
SANCAKTAR, E.
Material characterization of structural adhesives in the lap shear mode
[NASA-CR-172237] 02 p0199 N84-11294
SANCHEZ-DEHESA, J.
Electronic properties of semiconductor interfaces
[AD-A130745] 01 p0152 N84-11002
SANCHEZ, B. V.
An objective analysis technique for extrapolating tidal fields 20 p3222 N84-30471
SANCHEZ, R. J.
Matrix-dominated time-dependent deformation and damage of graphite/epoxy composite experimental data under creep and recovery
[AD-A139064] 13 p1954 N84-22704
SAND, W. R.
Cloud physics studies in SCPP (Sierra Cooperative Pilot Project) during 1982-1983
[PB84-176452] 17 p2735 N84-27384
SANDAHL, G.
Microcomputer network for Computerized Adaptive Testing (CAT)
[AD-A140256] 16 p2546 N84-26341
Microcomputer network for Computerized Adaptive Testing (CAT): Program listing. Supplement
[AD-A141569] 19 p3077 N84-29521
SANDAR, T. S.
Dynamic behaviour of a satellite antenna structure in random vibration environment 10 p1512 N84-19900
SANDBERG, C. J.
Synthesis of Co2+ and Ni2+ stabilized beta alumina 11 p1744 N84-21378
SANDBERG, G. W.
Water resources data for Utah, water year 1982
[PB84-120484] 09 p1340 N84-18756
SANDBORN, V. A.
Rotating-boom facility for evaluation of wind characteristics approaching a wind-turbine blade
[DE83-013117] 01 p0017 N84-10107
SANDEL, F.
External injection into a high current modified betatron accelerator
[AD-A134694] 08 p1229 N84-18030
SANDEL, F. L.
Status of light ion inertial fusion research at NRL (Naval Research Laboratory)
[AD-A135951] 09 p1392 N84-19087
SANDEL, W.
Viscous effects and heat transfer in a calculation method for axialsymmetric flow in multistage turbomachines using the stream function 07 p0956 N84-16201
SANDELL, N. R., JR.
Distributed detection of signal waveforms in additive Gaussian observation noise
[AD-A131016] 01 p0066 N84-10434
Sensor correlation and data fusion theory
[AD-A131510] 01 p0134 N84-10875
Sensor correlation and data fusion theory
[AD-A143587] 22 p3649 N84-33133
SANDELL, R. D.
Demonstration of SQUID (Superconducting QUantum Interference Device) parametric amplifier
[AD-A141326] 18 p2834 N84-27992
SANDELL, R. S.
The CARFAX road traffic information system
[BBC-RD-1984/1] 13 p1975 N84-22818
The prediction of field strength in the frequency range 30 - 1000 MHz 15 p2326 N84-24968
SANDENBERGH, R. F.
Evaluation of the pitting corrosion resistance of a Fe-12% Cr alloy 06 p0817 N84-15321
SANDER, G.
Electrochemical-treeing (ECT) structures in high-voltage cable insulation
[BMFT-FB-T-83-087] 02 p0215 N84-11413
SANDER, H.
Multitechnique studies on fretting fatigue: Influence of surface treatment
[AD-A140812] 17 p2624 N84-26796
SANDER, M.
Thermal design of Infrared Space Observatory (ISO) payload dual cooling 10 p1442 N84-19417
SANDER, N.
Design of a robust missile controller by vector performance optimization
[DFVLR-FB-84-05] 15 p2280 N84-24694
SANDER, O. R.
Operational parameters of a 2.0-MeV RFQ linac
[DE84-011368] 21 p3387 N84-31498
SANDERCOCK, D. M.
Secondary flow spanwise deviation model for the stators of NASA middle compressor stages
[NASA-CR-173360] 09 p1256 N84-18202
SANDERS, A. F.
Some issues in research on effects of sustained work and sleep loss on performance 11 p1697 N84-21071
SANDERS, D. C.
Combustibility of electrical wire and cable for rail rapid transit systems. Volume 2: Toxicity
[DOT-TSC-UMTA-83-4.2-VOL-2] 02 p0217 N84-11421
Inhalation toxicology. 3: Evaluation of thermal degradation products from aircraft and automobile engine oils, aircraft hydraulic fluid, and mineral oil
[AD-A133221] 06 p0889 N84-15778
SANDERS, G. A., III
A study to determine the accuracy of 2 computer programs in predicting hinge moments for all movable tail fins on missile bodies
[AD-A133399] 06 p0793 N84-15169
SANDERS, J. F.
Forecast aids for predicting tropical cyclone associated gusts and sustained winds for Agana, Hong Kong, Kadena and Misawa
[AD-A137846] 11 p1687 N84-21001
SANDERS, J. L.
Equitable assignment rules
[AD-A142809] 21 p3515 N84-32268
SANDERS, L. W.
Multiyear subcontractor selection criteria analysis
[AD-A135638] 09 p1397 N84-19126
SANDERS, R. D., JR.
Survey and assessment of heat of reaction type chemical heat pumps
[DE84-010988] 21 p3401 N84-31576
SANDERS, R. E.
An analysis of Department of Defense financial and acquisition policies in support of military contingency requirements
[AD-A140820] 17 p2773 N84-27607
SANDERS, S. C.
Corrosion evaluation of aluminum 5083
[DE83-015786] 01 p0047 N84-10301
SANDERS, T. H., JR.
Precipitation mechanisms in aluminum-lithium alloys
[AD-A134836] 08 p1133 N84-17367
SANDERS, W. T.
Limits on diffuse X-ray emission from M101
[NASA-CR-170978] 08 p1246 N84-18147
Limits on soft X-ray flux from distant emission regions
[NASA-CR-173591] 16 p2582 N84-26558
SANDERSON, A. C.
POPEYE: A gray-level vision system for robotics applications
[AD-A133298] 06 p0893 N84-15804
Implementation of automatic focusing algorithms for a computer vision system with camera control
[AD-A133492] 06 p0894 N84-15807
SANDERSON, S. N.
Digital rotation measurement unit
[DE84-010872] 21 p3392 N84-31528
SANDERSON, T. K.
Effects of space radiation on advanced semiconductor devices. Part 1: A review of current theories and practice in cosmic ray simulation
[G-2532-VOL-1] 08 p1153 N84-17505
Effects of space radiation on advanced semiconductor devices. Part 2: Cosmic ray simulation experiments for the study of single event upsets in CMOS technology
[G-2745-VOL-2] 08 p1153 N84-17506
SANDFORD, M. C.
Measured transonic unsteady pressures on an energy efficient transport wing with oscillating control surfaces 18 p2783 N84-27663
Subsonic and transonic unsteady- and steady-pressure measurements on a rectangular supercritical wing oscillated in pitch
[NASA-TM-85765] 22 p3530 N84-32348
SANDFORD, M. T., II
Dust particles in high speed flows: Calculations of small particle reentry hydrodynamics
[DE84-010998] 20 p3186 N84-30245
SANDFORD, T. W. L.
Magnetic trapping of intense ion beams
[DE83-017356] 03 p0437 N84-12866
SANDGATHE, S. A.
Tropical cyclone report, January - December 1983
[AD-A137836] 11 p1687 N84-21000
SANDHU, S. S.
Prediction of an apparent flame length in a co-axial jet diffusion flame combustor
[AD-A135088] 08 p1123 N84-17303
SANDIN, D. R.
A preliminary investigation of the drag and ventilation characteristics of livestock haulers
[NASA-CR-170408] 05 p0761 N84-14980
SANDLE, W. J.
Polarization switching with J=1/2 to J=1/2 atoms in a ring cavity 14 p2237 N84-24423
Polarization switching with sodium vapour 14 p2239 N84-24445
SANDLER, I. S.
Theory of viscoplastic shells for dynamic response
[AD-A131272] 01 p0096 N84-10624
SANDOR, G. N.
Theories of kinematic analysis and synthesis of spatial mechanisms containing lower and higher pairs
[AD-A134519] 07 p1016 N84-16594
SANDOR, J.
Digital control of flight simulator motion base actuator
[ARL-SYS-TM-69] 16 p2454 N84-25732
SANDOVAL, J. J.
Development program for a 200kW, CW gyrotron
[DE84-007945] 14 p2149 N84-23874
SANDRI, S. A.
Is artificial intelligence possible?
[INPE-3007-PRE/453] 17 p2757 N84-27490
SANDS, B.
Research topics in statistical database management
[DE84-002581] 06 p0935 N84-16080
SANDS, R. W.
New techniques for absolute gravity measurements
[AD-A129285] 02 p0248 N84-11625
SANDS, S. H.
Design of incident field B-dot sensor for the nose boom of NASA F-106B aircraft
[AD-A141765] 19 p2964 N84-28787
SANDS, T.
High resolution study of the relationship between misfit accommodation and growth of Cu sub 2-x in CdS
[DE84-004636] 11 p1673 N84-20920
Characterization of single crystal Cu/sub 2S/CdS heterojunctions by hing resolution electron microscopy
[DE84-006761] 13 p2048 N84-23287
SANDSTROEM, G.
Effectiveness of a device for detection of bacteriological aerosols; improvements in standardization and sensitivity in the laboratory
[FOA-C-40175-B2] 10 p1546 N84-20132
SANDSTROM, D. R.
C1 K-edge X-ray absorption studies of concentrated ferric chloride solutions
[AD-A142190] 19 p2989 N84-28940
Multiple scattering effects in EXAFS (Extended X-ray Absorption Fine Structure): Comparison between theory and experiment for Pt metal
[AD-A142199] 19 p2989 N84-28941
Determination of structural parameters from EXAFS (Extended X-ray Absorption Fine Structure): Application to solutions and catalysts
[AD-A142205] 19 p2989 N84-28942
Study of strong electrolytes by X-ray spectroscopy at the c1 k-edge
[AD-A142225] 19 p2989 N84-28943
SANDSTROM, R. L.
Beam processing for high-efficiency Si solar cells
[DE84-002059] 06 p0874 N84-15690
SANFORD, G. B.
Degradation of fracture toughness in steels due to prior strain: A predictive model
[AD-A132600] 05 p0654 N84-14300
SANFORD, N. A.
Optically induced changes in the Faraday rotation spectra of the ferromagnetic semiconductor CdCr/sub 2/Se/sub 4 14 p2233 N84-24398
SANFORD, R. J.
Dynamic crack growth in polymers
[AD-P003106] 16 p2467 N84-25811
SANFORD, T. W. L.
PIXE and PBFA 2: Pulsed X-ray source feasibility study
[DE84-011535] 21 p3496 N84-32155
SANGER, D. J.
An evaluation of permanent solder masks for high reliability applications
[AD-A139234] 14 p2134 N84-23787
SANGER, N. L.
Design and performance of a fixed, nonaccelerating, guide vane cascade that operates over an inlet flow angle range of 60 deg
[NASA-TM-83519] 05 p0626 N84-14120

SANI, R. L.
Flow-through boundary conditions for time-dependent, buoyancy-influenced flow simulations using low order finite elements
[DE83-010256] 02 p0218 N84-11430
Further studies on equal-order interpolation for Navier-Stokes
[DE84-000916] 04 p0534 N84-13512
A galerkin-finite element technique for small-scale atmospheric flows and transport over general terrain
[AD-A132735] 05 p0736 N84-14832

SANJAUNBENITO, J. P.
The influence of the environment on the mechanical characteristics of composite materials: Design considerations
[INTA-INFORME-I-1/221/720/83047] 06 p0811 N84-15281

SANKAR, B. V.
Effect of initial stresses on the impact behavior of graphite-epoxy laminates 15 p2310 N84-24859

SANKAR, J.
Effect of fatigue and thermal loads on silicon carbon fiber reinforced glass matrix composites
[DE84-007464] 14 p2121 N84-23710

SANKAR, S.
An optimum seat-suspension for off-road vehicles 10 p1512 N84-19896
Experimental investigation of controlling vibrations using multi-unit impact dampers 10 p1514 N84-19909

SANKAR, T. S.
Computer aided synthesis of a satellite antenna structure with probabilistic constraints 10 p1512 N84-19899
Unbalance response of a single mass rotor mounted on dissimilar hydrodynamic bearings 10 p1515 N84-19919

SANKRITHI, M. M. K. V.
The Tracked Wing In Ground-Effect (TWIG) 03 p0330 N84-12155

SANKUR, H.
Growth of HgCdTe by modified molecular beam epitaxy
[AD-A137243] 10 p1588 N84-20407

SANO, M.
Dual corelated random excitation technique for modal testing
[NAL-TR-762] 09 p1372 N84-18962
A case study of spaceborne synthetic aperture radar system design for the Earth Resources Satellite 23 p3782 N84-33987

SANSO, F.
Fundamentals of elasticity theory 07 p1030 N84-16680
Variational methods in elasticity theory 07 p1030 N84-16681
Problems, examples and exercises 07 p1030 N84-16682

SANTANA, C. C.
Hydrogen storage in the form of metal hydrides
[NASA-TM-77453] 19 p3050 N84-29356

SANTAVICCA, D. A.
Evaluation of non-intrusive flow measurement techniques for a re-entry flight experiment
[NASA-CR-172142] 04 p0489 N84-13212
High temperature catalytically assisted combustion
[AD-A133864] 05 p0648 N84-14259
The role of surface generated radicals in catalytic combustion 11 p1613 N84-20555

SANTEK, D.
Applications of the AVE-SESAME data sets to mesoscale studies
[NASA-CR-3819] 21 p3446 N84-31866

SANTHANAM, V. C.
German/Indian cooperation program for solar powered water pumps, phase 1
[BMFT-FB-T-83-171] 07 p1026 N84-16651

SANTI, G.
Missile system for low altitude air defence 21 p3351 N84-31255

SANTORO, G. J.
Experimental and theoretical deposition rates from salt-seeded combustion gases of a Mach 0.3 burner rig
[NASA-TP-2225] 10 p1490 N84-19741
Deposition of Na2SO4 from salt-seeded combustion gases of a high velocity burner rig
[NASA-TM-83751] 21 p3398 N84-31558

SANTORO, R. T.
Monte Carlo calculations of neutron and gamma-ray energy spectra for fusion-reactor shield design: Comparison with experiment
[DE83-016932] 03 p0449 N84-12956

SANTORO, T. P.
The computerization of material safety data sheet information
[AD-A131992] 03 p0459 N84-13021

SANTORU, J.
Low and high altitude ionospheric modification experiments 23 p3796 N84-34072

SANTOS, R. P.
Monthly variation of 200 MB flow in the tropics
[INPE-2953-PRE/435] 07 p1032 N84-16695

SANTOS, S. C.
Hydrogen storage in the form of metal hydrides
[NASA-TM-77453] 19 p3050 N84-29356

SANTRAKUL, K.
A structured design of multiple-valued LSI/VLSI with built-in testing capability
[AD-P002326] 14 p2189 N84-24119
Multi-valued LSI/VLSI logic design 22 p3580 N84-32670

SANTUCCI, G.
Visual perception in systems management in aeronautics 22 p3632 N84-33017
Visual function and the definition of thresholds for exposure to laser radiation 22 p3632 N84-33019

SANZ, J. M.
Design and performance of a fixed, nonaccelerating, guide vane cascade that operates over an inlet flow angle range of 60 deg
[NASA-TM-83519] 05 p0626 N84-14120

SANZFERNANDEZDECORDOBA, L.
An atlas of UV spectra of supernovae
[ESA-SP-1046] 15 p2424 N84-25563

SAPONAS, T. G.
Distributed and decentralized control in fully distributed processing systems
[AD-A140120] 15 p2418 N84-25520

SAPOV, I. A.
Some immunological mechanisms of adaptation of seamen to conditions of low latitude sailing 11 p1694 N84-21052

SAPOVA, N. I.
Dynamics of rheographic parameters of cerebral circulation and circulation in the extremities during active orthostatic test 02 p0260 N84-11700
Link between indexes for mental work capacity and parameters in circulatory system before and after physical stress 21 p3455 N84-31925

SAPOWITH, A. D.
Design and fabrication of a fiberglass circular-weave composite flywheel
[DE83-013406] 01 p0090 N84-10589

SAPOZHNIKOV, S. Z.
Generalization of results of electro-simulation of temperature of the piece during centrifugal cladding
[BLL-M-35687-(5828.4)] 22 p3551 N84-32479

SAPP, J. K.
A calculator adaptation of the Markov chain model for manpower analysis
[AD-A132990] 05 p0757 N84-14966

SAPPL, E.
The theory of Earth observation using multiple-frequency radar
[ESA-TT-819] 16 p2509 N84-26105

SARACENO, P.
Measurement of atmospheric moisture and extinction coefficient in the near infrared at Cima Ekar
[IFSI-83-6] 05 p0762 N84-14999

SARACHIK, P.
Research in network management techniques for tactical data communications networks
[AD-A131357] 02 p0209 N84-11365

SARASON, I. G.
Self-monitoring. Cognitive processes and performance
[AD-A137043] 10 p1551 N84-20164
Social support and performance in complex organizations
[AD-A138888] 14 p2186 N84-24098

SARDALOS, S. L.
Software quality assurance programs: Key elements of concern in selected commercial approaches
[DE84-009486] 20 p3274 N84-30785

SARDESHMUKH, P. D.
Mechanisms of monsoonal cyclogenesis 03 p0410 N84-12680

SARGENT, J. P.
Glass fibre/epoxy resin interface life-time prediction
[AD-A132206] 04 p0507 N84-13320
Application of optical methods, including optical interference, to measure the dimensional stability of resins, resin based adhesives and resin based composites
[AD-A140297] 16 p2472 N84-25843

SARGENT, W. H.
Energy management for crew escape systems 20 p3141 N84-29945

SARGENT, W. S.
Natural convection flows and associated heat transfer processes in room fires
[PB84-171172] 20 p3172 N84-30140

SARGESON, A. M.
Redox thermodynamics of surface-bound reactants. Illustrative behavior of Cobalt(3)/(2) macrobicyclic cage complexes
[AD-A139058] 13 p1957 N84-22723

SARGISSON, D. F.
An advanced pitch change mechanism incorporating a hybrid traction drive
[NASA-TM-83709] 16 p2433 N84-25605

SARH, B.
Economic production of aircraft structures made of fiber reinforced materials
[MBB-UT-23-82-OE] 05 p0625 N84-14109

SARI, F.
Extended development procedure EDeP user's manual
[AD-A131381] 01 p0116 N84-10756

SARI, J. W.
Anomalous propagation and radar coverage through inhomogeneous atmospheres 15 p2326 N84-24967

SARICH, A. J.
Evaluation of a carbon dioxide scrubber in a 2-lock recompression chamber
[AD-A141052] 19 p2989 N84-28816

SARICKS, C. L.
The effects of relaxing automobile emission standards: A generic analysis and an urban case study
[DE84-000193] 04 p0560 N84-13693
Measuring energy use in urban travel using a sketch planning model
[DE83-015375] 05 p0761 N84-14992

SARID, D.
Optical nonlinearity and bistability due to the biexciton two-photon resonance in CuCl 14 p2239 N84-24441

SARIDIS, G. N.
Basis research on intelligent robotic systems operating in hostile environments: New developments at ORNL
[DE84-011464] 21 p3414 N84-31647

SARIGUL, N.
Design of array processor software for nonlinear structural analysis
[AD-A137767] 11 p1706 N84-21124

SARIKAYA, M.
Lattice-parameter measurement in retained austenite by CBED
[DE83-013296] 02 p0195 N84-11267

SARIO, L.
Positive biharmonic functions 04 p0575 N84-13786

SARJEANT, W. J.
Review of repetitive-pulse-power component technology
[DE83-011784] 01 p0073 N84-10475
Performance of the perfluorocarbon liquid/plastic film capacitor technology in repetitive discharge pulse power service
[DE83-012502] 01 p0073 N84-10477
The performance of the perfluorocarbon liquid/plastic-film capacitor technology in pulse-power service. A current status report
[DE83-014606] 03 p0369 N84-12402
Energy storage capacitors. Lecture 4: Appendix
[DE84-010040] 21 p3395 N84-31546

SARKAR, S.
Tests for sphericity under correlated multivariate regression equations model
[AD-A144658] 24 p3952 N84-35024

SARKARIA, K. S.
Non-degenerescence of some spectral sequences 22 p3634 N84-33027

SARKISYAN, R. M.
Handbook on the determination of the physical, thermal and mechanical properties of frozen soils
[NRC/CNR-TT-2064] 03 p0395 N84-12578

SARKOS, C.
Aircraft seat fire blocking layers. Effectiveness and benefits under various scenarios
[AD-A140796] 17 p2603 N84-26681

SARNAVSKII, N. M.
A melt for the electrolytic application of titanium plating
[BLL-OA-TRANS-3111-(6L96.3)] 06 p0804 N84-15241

SAROHIA, V.
Antimisting kerosene: Base fuel effects, blending and quality control techniques
[NASA-CR-174509] 07 p0980 N84-16351
Atomization and combustion performance of antimisting kerosene and jet fuel
[NASA-CR-174507] 07 p0980 N84-16353
Antimisting fuel breakup and flammability
[NASA-CR-174508] 07 p0981 N84-16354

SARPKAYA, T.
Surface disturbances due to trailing vortices
[AD-A142693] 20 p3184 N84-30233

SARRACINO, R.
Gamma-burst emission from neutron-star accretion
[NASA-TM-85436] 07 p1094 N84-17112
SARRAFIAN, S. K.
Evaluation of HIMAT aircraft landing approach lateral control gearing using simulation and a visual display
[NASA-TM-84916] 18 p2796 N84-27743
Simulator evaluation of a remotely piloted vehicle lateral landing task using a visual display
[NASA-TM-85903] 20 p3131 N84-29885
SARRAILHE, S. R.
Retraction and lowering of the mirage undercarriage
[AD-A137791] 11 p1606 N84-20518
Proposed crashworthiness requirements for the Australian Basic Trainer
[AD-A140850] 17 p2603 N84-26682
Simulated crash decelerations in a light aircraft cabin
[AD-A142806] 21 p3326 N84-31102
SARRALHE, S. R.
Weathering trials and new rigidity tests on protective helmets for motor cyclists
[ARL-STRUC-TECH-MEMO-372] 15 p2300 N84-24804
SARRAZIN, P.
Trichite growth during oxidation of titanium and TA6V4 alloy by water vapor at high temperatures
[NASA-TM-76974] 06 p0805 N84-15248
SARRIS, E. T.
The ISPM experiment for spectral, composition and anistropy measurements of charged particles at low energie 09 p1261 N84-18235
SARTINI, L.
The meteorological data distribution mission on board SIRIO satellite 06 p0907 N84-15891
SARV, H.
Combustion characteristics in the transition region of liquid fuel sprays 11 p1609 N84-20534
SARVAS, J.
Quasiconformal semiflows 04 p0576 N84-13792
SARYCHEV, V. A.
Gravitational orientation of the orbital complex, Salyut-6--Soyuz
[NASA-TM-77299] 07 p0961 N84-16228
Stability of periodic oscillations of almost axisymmetric satellite in plane of elliptical orbit 17 p2650 N84-26945
SASADA, T.
Future direction of research in wear and wear resistant materials. Status of understanding 14 p2153 N84-23900
SASAKI, J.
Fast diffusion of iron in single crystal rutile and iron doped rutile
[DE84-004021] 08 p1236 N84-18079
SASAKI, M.
A study of liquid hydrogen cooled LO2/LH2 rocket combustor with channel wall construction
[NAL-TR-767] 16 p2459 N84-25763
SASAKI, S.
Beam Plasma Discharge (BPD) experiments in the laboratory 05 p0638 N84-14197
SASAKI, T.
Development of a thermal controller for space application 10 p1445 N84-19437
SASAKI, Y. K.
Four-dimensional satellite data assimilation
[AD-A139904] 15 p2372 N84-25228
SASAMORI, T.
Baroclinic instability in the stratosphere and mesosphere 17 p2683 N84-27082
SASAO, M.
A comment on atomic processes relevant to alpha particle diagnostics 11 p1736 N84-21323
Electron capture cross sections in high energy He2+ + neutral Li collisions
[IPPJ-679] 21 p3500 N84-32182
SASAO, T.
A fast complementation algorithm for sum-of-products expressions of multiple-valued input binary functions
[AD-P002339] 14 p2191 N84-24130
SASHITAL, S. R.
Development of new electro-optic and acousto-optic materials
[AD-A139946] 15 p2408 N84-25453
SASS, J. H.
Temperature profiles from Salt Valley, Utah
[DE84-900996] 21 p3444 N84-31854
SASS, S. L.
Observation of the effect of solute segregation on grain boundary structure
[DE84-002964] 07 p0975 N84-16319
SASSI, A. P.
Integrated Application of Active Controls (IAAC) technology to an advanced subsonic transpot project-demonstration act system definition
[NASA-CR-165920] 19 p2967 N84-28804
SASTRY, S.
The effects of small noise on implicitly defined non-linear dynamical systems
[AD-A131632] 03 p0428 N84-12808
On the relation between wire length distributions and placement of logic on master slice ICs
[AD-A137848] 11 p1647 N84-20788
SASTRY, S. M. L.
Optimum microstructures for SPF (superplastic forming) using hydrovac
[AD-A130944] 01 p0044 N84-10280
Influence of rare-earth additions on properties of titanium alloys. Effects of yttrium and erbium additives on rapid solidification processing, superplastic forming, welding, and strengthening of titanium alloys
[AD-A133669] 05 p0654 N84-14299
SASTRY, V. V. S. S.
Acoustic-to-Seismic coupling over porous ground surfaces
[AD-A138753] 13 p2011 N84-23046
SATANI, H.
Design and characteristics of radiating pair cable 11 p1720 N84-21217
SATCHWELL, B.
Fire detection using the NOAA (National Oceanic and Atmospheric Administration)-series satellites
[PB84-176890] 17 p2722 N84-27324
SATER, D. M.
Coaxial carbon plasma gun deposition of amorphous carbon films
[NASA-TM-83600] 10 p1587 N84-20404
SATHER, D.
A selection principle in Benard-type convection
[NASA-CR-173869] 21 p3398 N84-31559
SATHYAMOORTHY, M.
Nonlinear vibrations of plates: A review 10 p1505 N84-19842
SATINOFF, E.
The effect of lesions in the preoptic-anterior hypothalamus on the reflexive responses of rats to cold stress
[AD-A144020] 23 p3805 N84-34126
SATIRTAV, D.
Experimental investigation of switched-capacitor circuits and systems
[AD-A138034] 12 p1811 N84-21808
SATO, H.
Performance characteristics of VAD single mode fibers in mass production basis 11 p1725 N84-21254
Synthesis of Co2+ and Ni2+ stabilized beta alumina 11 p1744 N84-21378
Multicomponent diffusion under general chemical potential gradients
[DE84-010830] 22 p3548 N84-32458
SATO, K.
Response of flame spread phenomena to ambient air stream velocity changes 04 p0514 N84-13373
Bounce resonance heating and radial transport of electrons in magnetic mirrors
[IPPJ-654] 11 p1734 N84-21309
Emission properties of highly ionized iron spectra for spectroscopic plasma diagnositcs 11 p1735 N84-21314
A comment on atomic processes relevant to alpha particle diagnostics 11 p1736 N84-21323
Start-up and quasi-stationary drive of plasma current by lower hybrid wave in the JPII T-IIU Tokamak
[IPPJ-667] 15 p2409 N84-25461
Electron capture cross sections in high energy He2+ + neutral Li collisions
[IPPJ-679] 21 p3500 N84-32182
Impurity origin during ICRF heating in JIPP T-IIU Tokamak
[IPPJ-682] 23 p3827 N84-34271
Visible-light imaging MHD studies of the edge plasma in the JIPP-T-IIU Tokamak
[IPPJ-683] 23 p3827 N84-34272
SATO, M.
Macroscopic plasma behavior and charged particle acceleration in the plasma focus 10 p1581 N84-20363
A numerical averaging procedure for the Galilean Satellites system 19 p3118 N84-29816
A new method of evaluating the side wall interference effect on airfoil angle of attack by suction from the side walls
[NASA-TM-77722] 24 p3852 N84-34432
SATO, R. K.
Documentation of NCAR (National Center for Atmospheric Research) CCMOB program modules
[PB83-263996] 05 p0710 N84-14651
SATO, S. I.
Flow visualization and LDV measurement of turbulent mixing layers
[REPT-606] 06 p0834 N84-15424
SATO, T.
Fine pointing control of the solar UV telescope on the sounding rocket S-520-5
[ISAS-608] 06 p0938 N84-16094
Buildup and sustainment of 10(13) and cm(-3) plasma by ICRF in RFC-XX
[IPPJ-653] 10 p1580 N84-20356
Conceptual design of the RFC reactor
[IPPJ-659] 11 p1733 N84-21304
A transceiver module of the Mu radar 17 p2692 N84-27147
Plasma heating, confinement and stabilization experiments in axisymmetric mirror-cusp device
[IPPJ-690] 24 p3965 N84-35105
SATOH, K.
Note on standardization of implant tests
[VTT-RR-189] 02 p0198 N84-11288
Determination of weld hydrogen content
[VTT-240] 15 p2296 N84-24777
SATTELMAYER, T.
Optical measurements of droplet size distributions: Special considerations in the parameter definition for fuel atomizers 15 p2290 N84-24745
SATTERWHITE, M. B.
Discriminating vegetation and soils using LANDSAT MSS and Thematic Mapper bands and band ratios
[AD-A140198] 16 p2510 N84-26108
SATTI, J. A.
Satellite refrigerator compressors with the oil and moisture removal systems
[DE83-016079] 03 p0384 N84-12502
Fermilab satellite refrigerator compressors with the oil-and moisture-removal systems
[DE83-017328] 04 p0515 N84-13386
SATTLER, H. P.
Maintenance free lead acid battery with high cycle life and a new type of grid
[BMFT-FB-T-83-156] 05 p0677 N84-14453
Utilization of zirconium wastes in Al-special alloys
[BMFT-FB-T-84-020] 16 p2465 N84-25802
SATYAMURTY, P.
On the zonally averaged temperature in the Southern Hemisphere
[INPE-3139-PRE/528] 21 p3443 N84-31846
Teleconnections and sea surface temperature anomaly effects on the drought of 1963 in northeast Brazil
[INPE-3214-PRE/567] 21 p3446 N84-31867
SATYANARAYANA, P.
Velocity shear stabilization of the current convective instability
[AD-A137963] 12 p1909 N84-22439
Rayleigh-Taylor instability in the presence of a stratified shear layer
[AD-A138544] 13 p2011 N84-23043
Quasi-steady state multi-plasma cloud configuration in the ionosphere
[AD-A141532] 19 p3107 N84-29739
Influence of magnetic shear on the collisional current driven ion cyclotron instability
[AD-A143391] 22 p3659 N84-33191
SAUBER, R. S.
Research and development of energy-efficient appliance motor-compressors. Volume 4: Production demonstration and field test
[DE84-005083] 10 p1472 N84-19611
SAUCIER, K. L.
High-strength concrete for Peacekeeper facilities
[AD-A140510] 16 p2477 N84-25880
SAUER, R. A.
Effects of system and geometrical parameters on the flow of Class-B solids in overflow standpipes
[DE84-013948] 22 p3594 N84-32762
SAUERMANN, H. B.
Hydraulic hoisting and backfilling
[CSIR-ME-452] 04 p0532 N84-13488
SAUERS, I.
Negative ion formation in SF6 spark by-products
[DE84-012340] 20 p3181 N84-30212
SAUERS, L. J.
Acute intramuscular toxicity (LD50) of 1,1'-trimethylenebis (4-(Hydroxyiminomethyl) pyridinium bromide) monohydrate, (TMB-4) in male mice
[AD-A133148] 06 p0886 N84-15758
SAUERS, R.
Learning to program in LISP
[AD-A132611] 05 p0728 N84-14781
SAUERS, R. R.
New materials for organic photovoltaic cells
[DE83-016845] 03 p0404 N84-12645
SAULGOZIS, Y. Z.
Ultrasound distribution and bone calcium content in experimental animals submitted to hypokinesia and weightlessness 20 p3254 N84-30652
SAULNIER, J. B.
Integration of mathematical models: Experience of first Spacelab mission 10 p1444 N84-19431

SAULYS, A. C.
Operation of the Brookhaven MPS Facility
[DE83-015363] 03 p0441 N84-12896
SAUNDERS, A.
The 20 x 20 high speed microwave switches
[NASA-TM-83775] 22 p3575 N84-32644
SAUNDERS, C. G.
Surface accuracy measurement sensor test on a 50-meter antenna surface model
[NASA-TM-85689] 07 p0992 N84-16427
SAUNDERS, D. P.
A z-pinch photo-pumped pulsed atomic iodine laser
[AD-A140033] 15 p2410 N84-25468
SAUNDERS, F. M.
Evaluation of process systems for effective management of aluminum finishing wastewaters and sludges
[PB84-170661] 16 p2520 N84-26178
SAUNDERS, M. A.
Documentation for FDCALC and FDCORE
[DE83-013886] 01 p0124 N84-10808
User's guide for SOL/NPSOL: A FORTRAN package for nonlinear programming
[DE83-016903] 03 p0421 N84-12751
User's guide for SOL/QPSOL: A FORTRAN package for quadratic programming
[DE83-016990] 03 p0421 N84-12752
On the representation of a basis for the null space
[AD-A136419] 09 p1375 N84-18979
MINOS 5.0 user's guide
[DE84-005640] 11 p1709 N84-21140
SAUNDERS, P. M.
Benthic boundary layer: IOS observational programme
[IOS-163] 15 p2372 N84-25232
CTD data from the N.E. Atlantic 31N to 46N, July 1982 Discovery cruise 130
[IOS-165] 15 p2372 N84-25233
SAUNDERS, R. S.
A possible source for the Martian circumpolar dune material 13 p2082 N84-23490
The source of Mangalla Vales 15 p2426 N84-25573
SAUNDERS, S.
Properties of simulated comet mantle 13 p2076 N84-23452
SAUNIER, P.
30/20 GHz spacecraft GaAs FET solid state transmitter for trunking and customer-premise-service application
[NASA-CR-168276] 07 p0997 N84-16463
SAURE, F.
Silicon nitride: A ceramic material with outstanding resistance to thermal shock and corrosion
[NASA-TM-77067] 07 p0978 N84-16336
SAUSE, R.
Transducer for measuring the internal forces in the columns of a frame-wall reinforced concrete structure
[PB84-119494] 09 p1319 N84-18617
SAUSER, D.
New sapphire and ruby components and their manufacture using diamond abrasives
[CSIR-TRANS-1734] 21 p3375 N84-31419
SAUT, J. C.
Hyperbolicity and change of type in the flow of viscoelastic fluids
[AD-A141508] 19 p3023 N84-29172
SAUZAY, C.
Heat treatment and residual austenite
[CSIR-TRANS-1704] 08 p1130 N84-17349
SAVAGE, C. H.
Flate-plate photovoltaic power systems handbook for Federal agencies
[NASA-CR-173901] 22 p3617 N84-32921
SAVAGE, C. J.
A Variable Conductance Heat Pipe (VCHP) radiator system for communications payloads 10 p1440 N84-19406
SAVAGE, C. M.
Multistability, self-oscillation and chaos in nonlinear optics 14 p2232 N84-24387
SAVAGE, D.
Surface modification of some titanate minerals subjected to hydrothermal chemical attack
[AERE-R-10799] 01 p0039 N84-10249
SAVAGE, P. G.
Advances in strapdown sensors 16 p2446 N84-25693
Strapdown system algorithms 16 p2446 N84-25694
SAVAGE, R. K.
In-flight absolute radiometric calibration of the thematic mapper
[E84-10044] 04 p0552 N84-13637
In-flight absolute radiometric calibration of the thematic mapper
[E84-10064] 06 p0865 N84-15633
In-flight absolute radiometric calibration of the Thematic Mapper 13 p2004 N84-23002
In-flight absolute radiometric calibration of the Thematic Mapper 20 p3208 N84-30383
SAVCHENKO, A. A.
The cathode material for a plasma-arc heater
[BLL-OA-TRANS-3126-(6196.3)] 08 p1232 N84-18053
SAVCHENKO, V. I.
Thirteenth Gagarin Conference 12 p1865 N84-22151
SAVCHENKO, V. M.
Control computer and automation subsystem equipment in Delfin Facility 20 p3289 N84-30880
SAVCHENKO, V. V.
Threshold signals for detector having stabilization of false alarm probability 22 p3567 N84-32590
SAVCHENKOV, Y. P.
How to check line channel of IKM-15 digital pulse-code-modulation transmission system 17 p2633 N84-26842
SAVELSBERGH, M. W. P.
Bounded tiling, an alternative to satisfiability
[CWI-OS-R8405] 19 p3092 N84-29638
SAVELYEV, A. Y.
Problems of improving management of use of computer technology in higher schools 24 p3940 N84-34944
SAVELYEVA, G. N.
Tectonic and magmatic rock of central Pacific Ocean 18 p2858 N84-28150
SAVENKO, I. A.
The study of peculiarities of the energy spectrum of low energy electrons in the lower atmosphere 24 p3993 N84-35273
SAVENKOV, V. N.
Circuit engineering principles for construction of bipolar large-scale integrated circuit storage devices and very large-scale main memory 21 p3379 N84-31441
SAVERIONE, B.
Speaker recognition: Example of execution of a phonic test
[FUB-55-1982] 10 p1483 N84-19690
SAVESTRE, C.
La Recherche Aerospatiale, Bimonthly Bulletin, no. 1982-5, 210/September-October 1982
[ESA-TT-785] 04 p0477 N84-13142
SAVIC, N.
Fiber-optic communications systems
[AD-A137138] 11 p1644 N84-20749
SAVICH, A. N.
Grain size in sintered samarium-cobalt alloys and their coercive force
[BLL-M-35406(5826.4)] 09 p1281 N84-18365
SAVIN, B. M.
New trends in standardization of electromagnetic microwave radiation 07 p1044 N84-16767
SAVINA, V. P.
Evaluation of human blood morphological composition during exercise in sealed chamber with different concentrations of ammonia 07 p1045 N84-16779
Sanitary and hygienic features of cabin environment in Salyut-7 orbital station 15 p2375 N84-25253
SAVINA, Y. A.
Morphometric study of rat adrenal medulla during long-term hypokinesia 02 p0260 N84-11705
Structural distinctions of thyroid C cells and parathyroid glands of primates during head-down hypokinesia 15 p2377 N84-25263
SAVINO, J. M.
Surface wave path corrections, deterministic discrimination and body wave attenuation
[AD-A133574] 06 p0878 N84-15714
SAVITSKIY, Y. M.
Constitution diagram of system vanadium - copper
[AD-A135516] 08 p1132 N84-17361
SAVITSKIY, Y. N.
Improvement of surface planing with diamond tool 17 p2641 N84-26897
SAVOIE, D.
Optical thickness as related to pollutant episodes and the concentration of visibility degrading pollutants
[NASA-CR-175203] 10 p1531 N84-20028
SAVOLAINE, C. G.
Testing and error analysis of a real-time controller 13 p2027 N84-23144
SAVOLAINEN, A. L.
Some statistical distributions of air particle trajectories near the ground in Finland
[ILMATIEDE-106] 07 p1035 N84-16716
SAVVINOV, A. S.
Martensite transformation and shape memory in Ti0.5Ni0.5-xPd sub x system alloys 12 p1786 N84-21649
SAWADA, H.
A new method of estimating wind tunnel wall interference in the unsteady two-dimensional flow
[AD-A130475] 01 p0004 N84-10029
A new method of evaluating the side wall interference effect on airfoil angle of attack by suction from the side walls
[NASA-TM-77722] 24 p3852 N84-34432
SAWADA, J.
Large scale fire test of cable installed in tunnels 11 p1727 N84-21263
SAWAMIPHAKDI, K.
Nonlinear finite element analysis of shells with large aspect ratio 21 p3420 N84-31692
SAWANT, H. S.
The simplest solar microbursts flux and circular polarization at 22 GHz
[INPE-2970-PRE/436] 07 p1092 N84-17104
SAWCHUK, A. A.
Nonlinear real-time optical signal processing
[AD-A142619] 20 p3300 N84-30956
SAWICKI, T.
The effect of thermomechanical coupling in the case of a thick-wall sphere and tube subjected to internal pressure
[ISSN-0208-5658] 23 p3759 N84-33823
SAWITZ, P. H.
WARC and CCIR support for spectrum-orbit planning
[NASA-CR-163048] 19 p2979 N84-28884
SAWKA, M. N.
Effect of atropine on the exercise-heat performance of man
[AD-A131843] 03 p0416 N84-12719
Aerobic fitness and the hypohydration response to exercise-heat stress
[AD-A132263] 05 p0713 N84-14669
Differentiated ratings of perceived exertion and selected physiological responses during prolonged upper and lower body exercise
[AD-A134086] 06 p0887 N84-15769
Physiological responses to prolonged upper body exercise
[AD-A134811] 08 p1200 N84-17826
Heat exchange during upper and lower body exercise
[AD-A136015] 10 p1548 N84-20146
Influence of hydration level and body fluids on exercise performance in the heat
[AD-A139284] 15 p2380 N84-25281
Effects of heat acclimation on atropine impaired thermoregulation
[AD-A139292] 15 p2380 N84-25282
Influence of heat stress and acclimation on maximal aerobic power
[AD-A142329] 19 p3066 N84-29453
Upper body exercise performance: Comparison between women and men
[AD-A142330] 19 p3066 N84-29454
Upper to lower body muscular strength and endurance ratios for women and men
[AD-A143821] 23 p3811 N84-34168
SAWKO, P. M.
In-flight load testing of advanced shuttle thermal protection systems
[NASA-TM-86024] 08 p1115 N84-17250
SAWYER, C.
A satellite study of ocean internal waves
[PB83-248708] 04 p0556 N84-13661
Computer optimization of a linac injector trajectory
[DE84-005034] 15 p2408 N84-25456
SAWYER, C. R.
A review of major issues relating to human-machine integration in the development of military systems
[AD-A136739] 10 p1554 N84-20184
An introduction to human factors for engineering managers: Framework for a teaching unit
[AD-A135958] 10 p1592 N84-20428
SAWYER, D.
Development of a polysilicon process based on chemical vapor deposition, phase 1 and phase 2
[NASA-CR-173957] 23 p3786 N84-34015
SAWYER, F. G.
ERS synthetic aperture radar design 23 p3783 N84-33989
The active microwave instrument for ERS-1 23 p3783 N84-33990
Verification techniques for satellite-borne synthetic aperture radars 23 p3783 N84-33992
SAWYER, J. W.
Life considerations of the shuttle orbiter densified-tile thermal protection system 01 p0025 N84-10159
Pressure and heating-rate distributions on a corrugated surface in a supersonic turbulent boundary layer
[NASA-TP-1024] 01 p0077 N84-10504
Effect of preforming adherends on static and fatigue strength of bonded composite single-lap joints
[NASA-TP-2324] 16 p2501 N84-26053

SAX, R.
Description of an automatic seismic measurements package: Analysis and design goals
[AD-A132067] 03 p0407 N84-12666
SAXENA, N.
Error analysis for marine geodetic control using the global positioning system
[AD-A140566] 17 p2605 N84-26687
SAXENA, N. R.
Error latency estimation using functional fault modeling
[NASA-CR-173207] 07 p1058 N84-16856
SAYERS, C. M.
The measurement of residual stress in textured steel using an ultrasonic velocity combination technique
[AERE-R-11115] 18 p2854 N84-28123
The influence of stress on the principal polarisation directions of ultrasonic shear waves in textured steel plates
[AERE-R-11078] 18 p2854 N84-28124
Scattering of ultrasound by minority phases in polycrystalline metals
[AERE-R-11162] 18 p2929 N84-28574
SAYERS, D. E.
EXAFS study of Metglas 2605 CO
[DE84-001203] 04 p0503 N84-13299
SAYFER, V. A.
Focusers of obliquely incident laser radiation
21 p3487 N84-32099
SAYLES, R. E., JR.
A finite element analysis of the upper jet region of a fiber drawing flow field 02 p0218 N84-11425
SAYLOR, J. H.
Investigation of the currents and density structures of Lake Erie
[PB84-140334] 11 p1672 N84-20911
SAYLOR, P. E.
A hybrid Chebyshev Krylov subspace algorithm for solving nonsymmetric systems of linear equations
[AD-A139301] 14 p2213 N84-24291
SAYLOR, W. J.
Effects of a negative G strap on restraint dynamics and human impact response
[AD-A138642] 13 p2024 N84-23121
SAYRE, J. A.
Particle-tear energy contribution to the toughness of rubber-modified epoxies
[DE83-010396] 02 p0188 N84-11223
SAZONOV, B. A.
Problems of improving management of use of computer technology in higher schools 24 p3940 N84-34944
SAZONOV, V. V.
Gravitational orientation of the orbital complex, Salyut-6--Soyuz
[NASA-TM-77299] 07 p0961 N84-16228
Stability of periodic oscillations of almost axisymmetric satellite in plane of elliptical orbit
17 p2650 N84-26945
SCAGLIONE, L. J.
Teardown analysis of a ten cell bipolar nickel-hydrogen battery
[NASA-TM-83618] 13 p2008 N84-23026
SCAGLIONE, P. H.
Autonomic influences on peripheral circulatory and thermal responses to cold
[AD-A134444] 08 p1201 N84-17831
Regulation and characteristics of cold-induced vasodilation
[AD-A143797] 23 p3810 N84-34158
SCALES, W.
Test and evaluation of the Satellite-Aided Maritime Search and Rescue System (SAMSARS). Volume 1: System description and test results
[PB84-184621] 22 p3540 N84-32412
Test and evaluation of the Satellite-Aided Maritime Search and Rescue System (SAMSARS). Volume 2: Hardware circuitry and software programs
[PB84-184639] 22 p3540 N84-32413
SCALLION, W. I.
Analysis of shuttle oscillation in the Mach Number = 1.7 to Mach Number = 1.0 range
01 p0021 N84-10132
Stability and control over the supersonic and hypersonic speed range 01 p0021 N84-10135
SCALTRITI, F.
A study of the wake-like distortions in the light curves of RS CVN stars by means of time analysis
09 p1409 N84-19213
SCALZO, F.
Sensory redundancy management: The development of a design methodology for determining threshold values through a statistical analysis of sensor output data
[NASA-CR-173270] 07 p1059 N84-16859
SCANLAN, R. M.
Advanced high-field coil designs: 20 Tesla
[DE83-017368] 03 p0368 N84-12397
Analytical studies of advanced high-field designs: 20-Tesla large-bore superconducting magnets
[DE83-017591] 04 p0594 N84-13918
Ultra-high-field superconducting magnets
[DE84-003913] 08 p1226 N84-18012
SCANLON, C.
A comparison of two position estimate algorithms that use ILS localizer and DME information. Simulation and flight test results
[NASA-TP-2281] 08 p1102 N84-17165
SCANO, A.
Hallistocardiography: A non-invasive method advancing towards clinical application 11 p1701 N84-21093
SCARAMUZZINO
System concepts for helicopter air-to-air combat
[SNIAS-832-210-102] 16 p2448 N84-25705
SCARBROUGH, J. D.
Detection and sizing of underbead cracks using ultrasonic nondestructive examination
[DE83-012205] 11 p1686 N84-20869
SCARCHILLI, G.
Information from bias measurement
18 p2888 N84-28327
SCARF, F. L.
Plasma wave experiment for the ISEE-3 mission
[NASA-CR-175132] 06 p0919 N84-15972
Ongoing data reduction, theoretical studies and supporting research in magnetospheric physics
[NASA-CR-173419] 13 p2010 N84-23039
A summary of whistlers observed by Voyager 1 at Jupiter
[NASA-CR-173415] 13 p2091 N84-23545
SCARICH, G. V.
Investigation of fatigue crack-growth resistance of aluminum alloys under spectrum loading
[AD-A133206] 06 p0806 N84-15251
SCARSSON, A.
The research of National Defence's (FOA) future policy document on space technology
[FOA-A-30034-E1] 15 p2265 N84-24602
SCARTON, H. A.
Employment of adaptive learning techniques for the discrimination of acoustic emissions
[AD-A138142] 12 p1899 N84-22366
SCHAAD, G.
Sustained military operations with particular reference to prolonged exercise 11 p1699 N84-21081
SCHAAFSMA, W.
Interval estimates for posterior probabilities in a multivariate normal classification model
[MC-SW-96/83] 19 p3094 N84-29650
SCHAAL, R. E.
Determination of microwave attenuation due to the influence of atmospheric gases using the radiometric technique
[INPE-2850-PRE/391] 23 p3730 N84-33637
SCHABER, G. G.
Substance geology of the western desert in Egypt and Sudan revealed by Shuttle Imaging Radar (SIR-A)
07 p0987 N84-16392
Characterization of surficial geologic units on Venus from Pioneer Venus radar data: A progress report
13 p2076 N84-23454
Radar backscatter modelling
13 p2088 N84-23525
Mapping and geological analysis of Mercury radar data 13 p2089 N84-23532
Mercury: Topographic and geologic data from Earth-based radar observations
13 p2089 N84-23533
SCHACH, H.
Mechanically working fully-automatic plant for the regeneration of used aluminum cap screws for bottles
[BMFT-FB-T-83-215] 10 p1472 N84-19615
SCHACH, V.
Mechanically working fully-automatic plant for the regeneration of used aluminum cap screws for bottles
[BMFT-FB-T-83-215] 10 p1472 N84-19615
SCHACK, C. J.
Multi-(OTeF5)-substituted fluorocarbons
[AD-D011171] 23 p3751 N84-33778
SCHADE, J. H.
Correlative phase modulation for fixed satellite services, volume 1 (phase 1)
[PTI-SB-2363-21-3505-VOL-1] 08 p1147 N84-17465
Correlative phase modulation for fixed satellite service-s. Volume 2: Supplementary report
[PTI-SB-2363-21-3794-VOL-2] 08 p1147 N84-17466
SCHADEWALD, L. A.
Electrochemical and surface studies of the deposition of mercury and selenium at a gold electrode
[DE84-007209] 15 p2299 N84-24798
SCHADOW, K. C.
Turbulent mixing and combustion of multi-phase reacting flows in ramjet and ducted rocket environment
[AD-A133802] 05 p0632 N84-14152
Detailed flow measurements in fuel-rich, particle-laden plumes 13 p1952 N84-22690
SCHAEFER, B. E.
Implications of the three GRB optical flashes
09 p1407 N84-19192
Two probable optical flashes from gamma-ray bursters
[NASA-TM-86126] 21 p3526 N84-32337
SCHAEFER, D. W.
Sol-gel transition in simple silicates, 2
[DE83-013975] 01 p0051 N84-10329
SCHAEFER, F. L.
Water resources data for New Jersey, water year 1982. Volume 1: Atlantic Slope Basins, Hudson River to Cape May
[PB84-119726] 09 p1338 N84-18736
Water resources data for New Jersey, water year 1982. Volume 2: Delaware River Basin and tributaries to Delaware Bay
[PB84-119734] 09 p1338 N84-18737
SCHAEFER, G.
Coordinated research program in pulsed power physics
[AD-A129554] 01 p0138 N84-10905
Coordinated research program in pulsed power physics
[AD-A139321] 14 p2142 N84-23843
The effects of nonphysiological oxygen supply on the organism 17 p2745 N84-27428
SCHAEFER, H.
Development of a simple wind speedometer for application in countries of the developing world
[BMFT-FB-T-83-310] 15 p2336 N84-25022
SCHAEFER, H. F., III
Applications of molecular quantum mechanics to problems in chemistry
[DE83-015943] 03 p0456 N84-13003
SCHAEFER, P.
Analysis of beam interaction of the electrical thruster RIT 10 (particle emission) with surfaces
[DFVLR-FB-83-04] 02 p0185 N84-11202
SCHAEFER, R. A.
User friendly authoring languages: An alternative approach
[AD-P003461] 21 p3510 N84-32238
SCHAEFER, R. J.
Application of solidification theory to rapid solidification processing
[AD-A134132] 05 p0853 N84-14291
Application of solidification theory to rapid solidification processing
[AD-A135982] 09 p1283 N84-18380
Precipitation in rapidly solidified Al-Mn alloys
[AD-A136128] 09 p1284 N84-18385
Study of ebullated bed fluid dynamics
[DE84-010230] 20 p3187 N84-30251
SCHAEFER, W.
High temperature electrolysis of water vapor: HOT ELLY, phase 2A
[BMFT-FB-T-84-032] 16 p2463 N84-25784
Testing of coatings in space, Long Duration Exposure Facility (LDEF)
[BMFT-FB-W-84-017] 21 p3353 N84-31269
SCHAEFFER, H. A.
Thermal diffusion in glass melts
[BMFT-FB-W-83-033] 12 p1802 N84-21751
SCHAEFFER, J. R.
Photoionization models of the MgII and CIV selected clouds observed in absorption in QSO spectra
22 p3678 N84-33314
SCHAEFFER, W.
Compact receivers for Shuttle Imaging Radar (SIR)-B SAR mission 23 p3778 N84-33953
SCHAENZER, G.
Influence of windshear on flight safety
06 p0776 N84-15088
SCHAFER, D. L.
N1 and P1 components of the visual evoked response in humans. A topographical and functional comparison
[AD-A137030] 10 p1547 N84-20141
SCHAFER, D. R.
Standard environmental test methods
[DE84-006471] 11 p1666 N84-20868
SCHAFER, R. W.
Multichannel linear predictive coding of color images
[AD-A142260] 19 p3008 N84-29069
An iterative method for restoring noisy blurred images
[AD-A142201] 19 p3016 N84-29122
Morphological skeleton representation and coding of binary images
[AD-A142250] 19 p3079 N84-29536
Two-dimensional signal processing and storage and theory and applications of electromagnetic measurements
[AD-A144266] 24 p3898 N84-34680

SCHAFFHAUSER, A. C.
Ceramic coatings for heat engine materials: Status and future needs
[DE84-003401] 10 p1468 N84-19590
SCHAFFNER, P. R.
Flight measurement and analysis of AAFE RADSCAT wind speed signature of the ocean
[NASA-TM-85646] 08 p1194 N84-17784
SCHAFFRIN, B.
Variance-covariance components estimation by the adjustment of heterogeneous repetition measurements
[SER-C-282] 16 p2547 N84-26346
SCHAFRANEK, D.
In-flight investigation of landing approach flying qualities of transport aircraft with relaxed static stability
[DFVLR-FB-84-11] 17 p2610 N84-26706
SCHAICH, P. C.
L-Division streak camera
[DE84-007780] 14 p2149 N84-23872
SCHAIRE, S.
Single chip MIL-STD-1553B bus interface unit keeps pace with chip sets
[AD-P003537] 21 p3332 N84-31141
SCHAIRER, W.
Infrared devices for control applications
[BMFT-FB-T-83-247] 10 p1579 N84-20349
Improvements of properties and quality of LED displays
[BMFT-FB-T-84-043] 19 p3019 N84-29140
SCHALL, P.
Environmental qualification tests, signal conditioning unit, SD602 materials experiment
[AD-A138910] 13 p1967 N84-22897
Certification vibration tests, SD602 materials experiment
[AD-A138547] 13 p2001 N84-22982
Space environment effects on spacecraft materials (M0003) 15 p2272 N84-24645
SCHALL, W.
Model calculations for a CO2 mixing laser with screen nozzle
[DFVLR-FB-83-41] 15 p2339 N84-25039
SCHALLER, E.
Radiation for box budgets 10 p1535 N84-20058
SCHAMM, R.
High temperature electrolysis of water vapor. Status and perspectives of the German research and development activities 11 p1739 N84-21349
High temperature electrolysis of water vapor: HOT ELLY, phase 2A
[BMFT-FB-T-84-032] 16 p2463 N84-25784
SCHANK, R. C.
The explanation game
[AD-A140681] 17 p2757 N84-27500
SCHANTZ, R. E.
A technical overview of the National Software Works
[AD-A132320] 04 p0580 N84-13827
Cronus: A distributed operating system
[AD-A139588] 14 p2209 N84-24260
CRONUS: A distributed operating system
[AD-A139963] 15 p2388 N84-25328
Cronus, A distributed operating system: Functional definition and system concept
[AD-A142795] 21 p3462 N84-31950
SCHAPERY, R.
Research on composite materials for structural design
[AD-A134059] 05 p0645 N84-14242
SCHAPERY, R. A.
The effect of environment on the mechanical behavior of AS/3501-6 graphite/epoxy material
[AD-A133331] 06 p0799 N84-15205
SCHAPHORST, R. A.
Study of potential standardization of video teleconferencing systems. Volume 2: Appendices
[AD-A132081] 04 p0522 N84-13431
Study of potential standardization of video teleconferencing systems, volume 1
[AD-A132080] 04 p0522 N84-13432
Users manual for NCS (National Communications System) facsimile test document tapes. Addendum
[AD-A133830] 05 p0684 N84-14498
SCHARDT, A. W.
Saturn's outer magnetosphere
[NASA-TM-85105] 01 p0165 N84-11084
SCHARER, J. E.
ICRF waveguide couplers
[DE84-004042] 09 p1392 N84-19092
SCHARF, L. L.
Fixed point implementations of fast Kalman algorithms
[AD-A136188] 09 p1378 N84-19005
Parallel implementation of likelihood-based estimation and detection 09 p1400 N84-19148
SCHARLACK, R. S.
Design and development of a high-concentration and high-efficiency photovoltaic concentrator using a curved Fresnel lens
[DE84-000967] 04 p0558 N84-13679
SCHARLEMANN, E. T.
Simulation of a high-gain tapered-wiggler free-electron laser
[DE84-001237] 04 p0540 N84-13557
SCHARR, K. G.
Terrain variables improve modeling of Richardson numbers less than unity in the lower atmosphere
[AD-A137926] 11 p1671 N84-20906
Investigate and verify the validity of mathematical formulas in relation to data obtained from theoretical investigations and experimental observations
[AD-A137847] 11 p1682 N84-20974
SCHARRER, G. L.
Swirl, expansion ratio and blockage effects on confined turbulent flow
[NASA-CR-175391] 10 p1491 N84-19746
SCHARSCHMIDT, J.
Physical and chemical investigations on real catalyst surfaces
[BMFT-FB-T-83-273] 13 p1958 N84-22729
SCHARTEL, W. A.
Technology needs of advanced Earth observation spacecraft
[NASA-CR-3698] 08 p1114 N84-17248
SCHASTLIVYY, G. G.
Problems of building turbogenerators with windings made of superconductors and pure metals
[AD-A137198] 10 p1485 N84-19710
Problems of technical electrodynamics (selected articles)
[AD-A140972] 18 p2833 N84-27985
SCHATTEN, K. H.
Energy flow continuity in solar active regions 17 p2779 N84-27643
SCHATTMANN, W.
Feasibility study of advanced optical techniques for ocean color measurement
[MBB-R3700/292] 12 p1837 N84-21974
SCHATZ, M.
Performance capabilities of the 12-centimeter Xenon ion thruster
[NASA-TM-83674] 18 p2808 N84-27825
SCHATZMAN, J. C.
The stability of inviscid vortex streets of finite cored vortices
[AD-A139311] 14 p2145 N84-23855
SCHAUER, A.
Flat panel
[BMFT-FB-T-84-048] 19 p3019 N84-29141
SCHAUER, M.
Molecular supersonic jet studies of Aniline solvation by helium and methane
[AD-A132879] 05 p0650 N84-14276
Molecular jet study of aniline-helium van der Waals molecules and aniline radiationless relaxation in the 1-B sub 2 excited electronic state
[AD-A132726] 05 p0744 N84-14888
Supersonic molecular jet studies of Toluene-Helium and Toluene-Methane clusters
[AD-A141379] 19 p2988 N84-28931
SCHAUERTE, W.
Modern hygrometer. Is it an alternative to psychrometric humidity measurement? 02 p0234 N84-11535
SCHAWLOW, A. L.
Investigation of optimum magnet geometries for gain-expanded free-electron lasers
[AD-A136494] 09 p1321 N84-18634
SCHEARER, L. D.
Kinetic processes in high pressure gases. Excited state collisions
[AD-A141927] 20 p3152 N84-30016
SCHECHNER, Z.
Using simulation to estimate first passage distributions
[AD-A132328] 04 p0590 N84-13898
SCHECHTER, R.
The use of interactive graphics processing in short-range terminal weather forecasting: An initial assessment
[AD-A137165] 11 p1687 N84-21004
SCHECHTER, R. S.
A method to compute the contact force of a body impacting a ring-stiffend cylindrical shell using a lumped parameter finite-difference model
[AD-A139723] 15 p2350 N84-25109
SCHECHTMAN, D.
Metastable phases of rapidly solidified Al-rich, Al-Fe alloys
[AD-A139598] 14 p2128 N84-23757
SCHECTER, H.
The Lincoln Laboratory-Aerospace Medical Research Laboratory digital speech test facility
[AD-A144303] 24 p3894 N84-34662
SCHEER, S.
Miniaturized Measurement and Testing (MMT) system
[MBB-UA-767-83-O] 14 p2203 N84-24226
SCHEINBEIM, J. I.
Mechanical and physical properties of poly(vinylidene fluoride) at high pressures and temperatures
[AD-A137842] 11 p1637 N84-20705
High pressure melting and crystallization of Nylon-11
[AD-A138858] 13 p1964 N84-22760
The effect of plasticizer on the polarizer of Poly(vinylidene fluoride) films
[AD-A140770] 17 p2626 N84-26806
Piezoelectric properties and ferroelectric hysteresis effects in unaxially stretched Nylon-11 films
[AD-A140683] 17 p2768 N84-27575
SCHEITERER, E.
Techniques for integrated text and image processing and communication
[BMFT-FB-T-83-104] 02 p0302 N84-11985
SCHELBY, F.
Systems approach to measuring short-duration acceleration transients
[AD-P002690] 11 p1659 N84-20825
SCHELEGLE, E. S.
Ozone toxicity effects consequent to prolonged, high intensity exercise
[PB83-237388] 02 p0267 N84-11755
SCHELL, J. E.
Fault tolerant spaceborne computer 15 p2266 N84-24607
SCHELLENBERG, J. M.
Ka-band Ga-As FET noise receiver/device development
[NASA-CR-175176] 10 p1484 N84-19705
SCHELONKA, L. P.
Pulsed generation of singlet delta oxygen (O2(1 delta)) via ozone photolysis
[AD-A138195] 12 p1792 N84-21684
SCHELOWSKY, H. U.
Thermostatic fine control valves mounted on the radiators in district heating systems
[BMFT-FB-T-83-169] 07 p1012 N84-16568
SCHEMMER, F. M.
Analysis of computer interactive tests for assigning helicopter pilots to different missions
[AD-A142434] 20 p3262 N84-30696
SCHEMMER, M.
Secondary ion emission from adsorbate layers on polycrystalline Ni 06 p0815 N84-15306
SCHEMPP, E. P.
Celestial pattern recognition allowing autonomous earth-surface or deep-space positioning
[AD-A138115] 12 p1768 N84-21529
SCHENCK, S. C.
Material characterization of structural adhesives in the lap shear mode
[NASA-CR-172237] 02 p0199 N84-11294
SCHENDEL, B.
Development of technology, circuit design and simulation procedures for Very Large Scale Integration (VLSI) systems, volume 1
[BMFT-FB-T-83-170-VOL-1] 10 p1487 N84-19724
Development of technology, circuit design and simulation procedures for Very Large Scale Integration (VLSI) systems, volume 2
[BMFT-FB-T-83-170-VOL-2] 10 p1487 N84-19725
SCHENDEL, J. D.
Use of self assessment in estimating levels of skill retention
[AD-P003345] 18 p2911 N84-28465
SCHENK, P. M.
The crustal tectonics and history of Europa: A structural, morphological, and comparative analysis 15 p2426 N84-25568
SCHENKL, F.
Computation of the sample range in presence of conditions on generalized variance 02 p0285 N84-11872
SCHEP, T. J.
Electrostatic drift models in toroidal geometry
[REPT-84-152] 17 p2767 N84-27569
SCHER, R. E.
Evaluation of the epoxy system for the repair of fuel tank M109
[AD-A136923] 10 p1467 N84-19583
SCHERBER, W.
Development of a production process for central receiver coatings
[BMFT-FB-T-84-124] 23 p3792 N84-34051
SCHERE, K. L.
US EPA (Environmental Protection Agency) regional oxidant model, background and overview
[PB84-201680] 21 p3437 N84-31806

SCHERER, M.
New opportunities for old measuring methods by using Automatic Seconds Theodolites (AST) 02 p0234 N84-11533
Interdisciplinary study of directional discontinuities in the solar wind with ISPM 09 p1263 N84-18242
Development of a prototype cathode sputtering plant [BMFT-FB-T-83-251] 10 p1472 N84-19617
SCHERER, W. T.
An evaluation of ARIADNE (alternative ranking interactive aid based on dominance structure information elicitation) [AD-P002891] 13 p1980 N84-22852
SCHERR, S. J.
Stability of compressible wake and jet flows [AD-A136541] 09 p1314 N84-18589
SCHERRER, B.
Real time flight test conduction and monitoring 24 p3850 N84-34414
SCHERRER, P. H.
Detection of solar gravity mode oscillations [NASA-CR-174469] 01 p0165 N84-11086
Detection of solar gravity mode oscillations [NASA-CR-173842] 17 p2781 N84-27655
SCHERRER, S. A.
User's guide for ERB 7 SEFDT. Volume 1: User's guide. Volume 2: Quality control report, year 1 [NASA-CR-170616] 16 p2581 N84-26553
SCHETTER, G.
Technical use of solar energy: Conversion from solar to thermal energy, solar cooling and thermal energy storage [BMFT-FB-T-83-300] 15 p2362 N84-25173
SCHETZ, J. A.
Injection, atomization, ignition and combustion of liquid fuels in high-speed air streams [AD-A133806] 05 p0648 N84-14264
Real jet effects on dual jets in a crossflow [NASA-CR-173817] 19 p3022 N84-29161
SCHETZINA, J. F.
Physical properties of CdTe films grown by hotwall and molecular beam techniques [AD-A143180] 22 p3662 N84-33214
SCHEUBLE, B.
Investigation of electro-optical effects in liquid crystals for high information density over a wide temperature range [BMFT-FB-T-84-120] 23 p3831 N84-34304
SCHEURER, B.
Remarks on the Kuramoto-Sivashinsky equation [DE84-001018] 04 p0590 N84-13901
SCHEURLE, J.
Smoothness of bounded solutions of nonlinear evolution equations [AD-A135294] 08 p1219 N84-17958
SCHIANTARELLI, H. T.
Multiple path static routing protocols for packet switched networks [AD-A140166] 16 p2483 N84-25919
SCHICHTLE, C.
The national space program from the fifties into the eighties [AD-A134799] 08 p1107 N84-17197
SCHICK, F. V.
Evaluation and analysis of experience reports concerning wind shear problems [DFVLR-FB-83-19] 07 p0949 N84-16159
SCHIEBE, F. R.
A first evaluation of LANDSAT TM data to monitor suspended sediments in lakes 20 p3215 N84-30425
SCHIEBER, M.
Crystal growth and applications of mercuric iodide [DE83-016731] 02 p0299 N84-11966
SCHIELDGE, J. P.
Evaluation of thermal data for geologic applications [NASA-CR-173211] 07 p1033 N84-16703
SCHIERLOH, U.
Study of the recovery of valuable metal starting materials from steelsworks slag [BMFT-FB-T-83-183] 10 p1532 N84-20034
SCHIERMEIER, F. A.
EPA (Environmental Protection Agency) model development for stable plume impingement on elevated terrain obstacles [PB84-130491] 10 p1533 N84-20038
SCHIESS, J. R.
Analysis of shuttle oscillation in the Mach Number = 1.7 to Mach Number = 1.0 range 01 p0021 N84-10132
Stability and control over the supersonic and hypersonic speed range 01 p0021 N84-10135
Rational-spline approximation with automatic tension adjustment [NASA-TP-2366] 23 p3817 N84-34204
SCHIFERL, D.
Fast, non-linear optical-scattering spectroscopy in shock-compressed organic liquids [DE83-007548] 01 p0148 N84-10972
Single-pulse coherent Raman spectroscopy in shock-compressed benzene [DE83-014140] 02 p0219 N84-11433
SCHIFF, H. I.
Measurement of NO, NO/sub 2, and HNO/sub 3 using a tunable diode laser system. Phase 2: Modification to permit automated simultaneous multi-species monitoring and feasibility study of extension to H/sub 2O/sub 2, CH/sub 2O and HONO [PB84-160076] 14 p2151 N84-23890
SCHIFF, L. B.
Mathematical modeling of the aerodynamic characteristics in flight dynamics [NASA-TM-85880] 06 p1098 N84-17141
SCHIFFER, S. F.
RCA SATCOM battery in orbit performance update and accelerated life test results 23 p3738 N84-33691
SCHIFFMAN, R. A.
Containerless high temperature property measurements by atomic fluorescence [NASA-CR-171038] 15 p2412 N84-25481
SCHIJVE, J.
Brief note of the stress intensity factor of elliptical cracks [PB83-216911] 06 p0862 N84-15618
Fatigue crack growth in aluminum alloy sheet material under constant amplitude and simplified flight simulation loading [VTH-LR-381] 10 p1464 N84-19561
Interpolation between calculated stress intensity factors of semi and quarter elliptical cracks [VTH-LR-366] 10 p1518 N84-19939
Comparison between empirical and calculated stress intensity factors of hole edge cracks [VTH-LR-376] 10 p1518 N84-19940
SCHILCHER, M.
Use of the interactive graphical system SICAD for computer assisted land evaluation and redistribution in land consolidation 07 p1019 N84-16612
SCHILLACI, M. E.
Muon spin relaxation in ferromagnetic PdMn [DE83-012659] 03 p0453 N84-12979
SCHILLER, J.
Estimation of the flight parameters of low flying aircraft using the radiated noise [LFD-211] 15 p2259 N84-24569
SCHILLING
Noise emission by helicopters 03 p0457 N84-13007
SCHILLING, C. L., JR.
Organosilane polymers. 5: Hydrosilyl-modified polycarbosilane precursors for silicon carbide [AD-A141546] 19 p2999 N84-29002
Organosilane polymers. 6: Branched polysilahydrocarbon precursors for silicon carbide [AD-A141558] 19 p2999 N84-29003
Organosilane polymers, 8 [AD-A141627] 19 p2999 N84-29004
SCHILLING, D. L.
Computer simulator for a mobile telephone system [NASA-CR-174533] 01 p0061 N84-10401
Acquisition, image and data compression [AD-A131923] 03 p0360 N84-12344
Low rate transmission of video signals using adaptive delta modulation [AD-A133145] 06 p0823 N84-15363
Investigation of digital encoding techniques for television transmission [NASA-CR-171734] 07 p0991 N84-16421
Spread spectrum, acquisition and tracking [AD-A144533] 24 p3895 N84-34668
SCHILLING, L. J.
The role of simulation in the development and flight test of the HiMAT vehicle [NASA-TM-84912] 12 p1769 N84-21537
SCHILLINGS, C. L., JR.
Organosilane polymers. Part 7: Sodium-derived vinylic polysilanes [AD-A141649] 19 p2984 N84-28912
SCHILLINGS, J. J.
Mach number correlation for a two-dimensional helicopter rotor-blade analysis in the tip region 12 p1765 N84-21509
SCHILPEROORD, A. A.
Investigation of detonation chains. Part 13: Continuous measurement of the detonation velocity of pressed TNT using an ultrahigh speed camera [PML-1982-3] 12 p1814 N84-21825
SCHIMANSKI, J. A.
The European Transonic Windtunnel (ETW) 14 p2094 N84-23566
SCHIMKE, S. M.
Unsteady boundary layers on thin bodies of revolution [AD-A136257] 09 p1313 N84-18583
SCHIMMING, P.
Comparison of a propfan/turbofan engine by thermodynamic cycle calculation [ESA-TT-820] 16 p2450 N84-25715
SCHINAGEL, H.
Applications of analog Change Coupled Devices (CCD's) [BMFT-FB-T-83-141] 03 p0456 N84-13002
SCHINTLMEISTER, W.
Ion plating of coatings made from high melting point metals [BLL-RISLEY-TRANS-4879] 12 p1796 N84-21715
SCHINTZKE, K.
Superconducting resonators [BMFT-FB-T-84-119] 23 p3831 N84-34303
SCHIOLER, L. J.
Characterization of ceramic vane materials for 10KW turboalternator [AD-A132505] 04 p0486 N84-13196
Relation between structure and conductivity in the nasicon solid solution system 11 p1743 N84-21374
SCHIPPER, L. M.
Decision making and information processing under various uncertainty conditions [AD-A132051] 04 p0572 N84-13770
SCHIPPERS, H.
Multigrid methods for boundary integral equations [NLR-MP-82059-U] 09 p1379 N84-19011
Multiple grid methods for equations of the second kind with applications in fluid mechanics [MATH-CENTRE-TRACTS-163] 21 p3474 N84-32018
SCHIPPNICK, P. F.
Ultraviolet OH emissions in H2-air diffusion flames 13 p1942 N84-22629
SCHIRBER, J. E.
Pressure studies of organic superconductors [DE83-015344] 01 p0155 N84-11021
SCHISSEL, P.
Polymer degradation on reflecting metal films: Fourier transform infrared (FTIR) reflection-absorbance studies [DE83-012129] 03 p0404 N84-12641
Polymeric glazings [DE84-000016] 08 p1136 N84-17402
Solar Thermal Technology Program: Polymer synthesis and characterization subtask, FY 1983 [DE84-000094] 10 p1530 N84-20022
Active solar heating and cooling program. Polymer stabilization film-forming, high-temperature polymers [DE84-000093] 11 p1675 N84-20929
SCHKADE, D.
The human side of robotics: Results from a prototype study on how workers react to a robot [AD-A133438] 06 p0894 N84-15805
SCHLACHTER, J. S.
High-density Z-pinch research [DE83-017311] 04 p0608 N84-14013
High density Z-pinch research 10 p1582 N84-20371
SCHLACTER, A. S.
Formation of negative ions by charge transfer: He(-) to Cl(-) [DE84-005718] 13 p2041 N84-23243
SCHLAFKE, A. P.
A helium refrigerator with features for supercritical pressure cooling [DE84-017759] 04 p0515 N84-13383
Combined cold compressor/ejector helium-refrigerator cycle [DE83-017764] 04 p0515 N84-13385
SCHLAG, J. F.
POPEYE: A gray-level vision system for robotics applications [AD-A133298] 06 p0893 N84-15804
Implementation of automatic focusing algorithms for a computer vision system with camera control [AD-A133492] 06 p0894 N84-15807
SCHLEGEL, E. M.
Time-resolved spectrophotometry of the nova-like cataclysmic variables RW triangulum and UX Ursa Majoris 13 p2069 N84-23408
SCHLEGEL, R. G.
Acoustic methodology review 19 p3098 N84-29674
SCHLEICHER, D. G.
A high resolution solar atlas for fluorescence calculations [NASA-CR-173366] 10 p1597 N84-20465
SCHLEIN, P. E.
The performance of 16000 wire mini-drift MWPC system 06 p0912 N84-15922

SCHLENKER, G. J.
Methods for choosing buffer size in tandem production operations
[AD-A132639] 05 p0735 N84-14828
Statistical properties of an integrated stationary stochastic process
[AD-A134180] 07 p1067 N84-16924

SCHLICHTING, C. L.
The stability of visual field measures with repeated testing
[AD-A132704] 05 p0713 N84-14674

SCHLIE, L. A.
Transverse flow CW atomic iodine laser system
[AD-D011098] 22 p3601 N84-32810

SCHLIER, R. E.
Experimental study of dissociative attachment in optically-pumped lithium molecules
[AD-A131601] 02 p0289 N84-11894

SCHLIETER, J. A.
Weather summaries for Coram Experimental Forest, Northwestern Montana: An international biosphere reserve
[PB84-162443] 20 p3248 N84-30615

SCHLIFKOWITZ, U.
Standard methods for image processing. Part 4: Operating instructions for the program system
[BMVG-FBWT-83-1] 08 p1213 N84-17915

SCHLINGER, C. M.
The magnetic petrology of the deep crust and the interpretation of regional magnetic anomalies
05 p0706 N84-14634
The magnetic petrology of the deep crust and the interpretation of regional magnetic anomalies
[NASA-CR-175407] 10 p1533 N84-20041
Petrologic and geophysical study of the source of long wavelength crustal magnetic anomalies
[NASA-CR-175168] 11 p1677 N84-20946
Petrologic and geophysical sources of long-wavelength crustal magnetic anomalies
[NASA-CR-175245] 18 p2678 N84-28276

SCHLINKER, R. H.
Rotor-vortex interaction noise
[NASA-CR-3744] 01 p0139 N84-10912
Facility requirements for helicopter noise research
19 p3097 N84-29672

SCHLITT, L. G.
Pulse power for the RAPIER B amplifier KrF laser system
[DE83-012951] 01 p0088 N84-10573
Pulsed power for racetrack induction accelerators
[AD-A143289] 22 p3653 N84-33157

SCHLITTENHARDT, P.
Marine remote sensing activities of the Joint Research Center, Ispra, Italy 03 p0396 N84-12586
Remote monitoring of sediments and chlorophyll as traces of pollutant movements in a Mediterranean coastal area 23 p3780 N84-33969

SCHLOSSER, D.
Emission-proof valves
[BMFT-FB-HA-83-028] 10 p1503 N84-19822

SCHLOSSER, D. C.
Approach to establishing the effect of aeroelasticity on aerodynamic characteristics of the space shuttle orbiter
01 p0021 N84-10133

SCHLOTTER, P.
Investigation of electrochromic effects for display application
[BMFT-FB-T-83-212] 10 p1457 N84-19519

SCHLUDE, F.
Remote sensing experiments on Spacelab and STS
08 p1175 N84-17655
Workshop on active microwave sensor design
08 p1177 N84-17667
The modification of the modulation transfer function by sea slicks measured by L-band radar
23 p3780 N84-33971

SCHLUESSEL, P.
Temperature and humidity profiles in the atmosphere from spaceborne lasers: A feasibility study
17 p2716 N84-27292
Differential absorption lidar in space for temperature and humidity profiles in the atmosphere
24 p3907 N84-34748

SCHLUETER, H.
Engine condition monitoring with aircraft integrated data systems on Lufthansa A310 17 p2585 N84-26571

SCHLUETER, J. M.
T-38 student windshield birdproofing efforts utilizing metal and composite materials for aft arch reinforcement
[AD-P003189] 17 p2590 N84-26602

SCHLUETER, K.
Monolithic integrated analog switching arrays
[BMFT-FB-T-83-146] 02 p0216 N84-11418

SCHLUETER, W.
Investigations of Doppler position determination following the short arc and semi short arc techniques
08 p1174 N84-17645
Results of permanent Doppler measurements at the satellite observation station Wettzell
08 p1174 N84-17646
Calibration measurements of Doppler receivers
08 p1174 N84-17647
Results of the simultaneous Doppler measuring campaign HOTDOC from 29 September to 10 October 1979 08 p1174 N84-17648
Satellite Doppler point positioning using the Navy Navigation Satellite System 19 p3039 N84-29281
Final results of Doppler point positioning at several timekeeping laboratories in Europe
19 p3039 N84-29282

SCHMAHL, E. J.
Thermal and nonthermal phenomena in solar flare loops at 20 cm wavelength and in X-rays
[NASA-CR-173429] 14 p2252 N84-24522

SCHMELING, B.
Contour-to-grid transformation: Development of a method for generation of a sparse grid structure out of terrain elevation contours
[FOA-C-30349-E1] 15 p2359 N84-25156

SCHMELLER, M. D.
Feasibility of thermal NDE methods for Naval thermal spray coatings
[DE84-001463] 06 p0855 N84-15569

SCHMELTZ, E. J.
West breakwater-Sines (Portugal): Wave climatology
08 p1194 N84-17787

SCHMELZLE, J.
German-Argentinian R and D project for the utilization of wind energy
[BMFT-FB-T-84-080] 20 p3237 N84-30549

SCHMERLING, E. R.
A user view of office automation or the integrated workstation 22 p3671 N84-33271

SCHMERR, L. W.
Effects of crack closure on ultrasonic transmission
[DE83-018073] 04 p0546 N84-13599

SCHMETZ, J.
On the use of narrow band infrared channels to determine the outgoing long wave flux
10 p1534 N84-20051
On the derivation of cloud structure parameters from aircraft measurements 10 p1536 N84-20062

SCHMID, A. W.
Investigation of sol-gel antireflection coatings
[DE84-008381] 19 p3030 N84-29218
Characterization of micron-sized, optical coating defects by photothermal deflection microscopy
[DE84-011150] 20 p3301 N84-30960

SCHMID, O.
Pattern deformation of scalar antenna arrays due to near field backscatter
[LFD-210] 15 p2318 N84-24913

SCHMID, R.
Monitoring of ship routes via satellite
[DFVLR-MITT-83-15] 07 p0963 N84-16240
Monitoring of ship routes via satellite
[ESA-TT-842] 19 p2980 N84-28889

SCHMIDBERGER, R.
High temperature electrolysis of water vapor: HOT ELLY, phase 2A
[BMFT-FB-T-84-032] 16 p2463 N84-25784

SCHMIDLI, R. J.
Climate of Phoenix, Arizona (revised)
[PB83-246801] 03 p0412 N84-12699

SCHMIDT-KOENIG, K.
The initial orientation of homing pigeons on the magnetic equator, with and without Sun compass
[INPE-3104-PRE/503] 16 p2534 N84-26271

SCHMIDT, A.
Control of multiaxis vibration systems
03 p0339 N84-12203
Report on new calculations of the magnetic potential of the Earth
[NASA-TM-77329] 05 p0702 N84-14608
The magnetic state of the Earth at epoch 1885.0
[NASA-TM-77342] 09 p1343 N84-18774

SCHMIDT, B.
Shock structure near a wall in pure inert gas and in binary inert gas mixtures 07 p1005 N84-16517

SCHMIDT, D.
Development of a redundant computer system for flight augmentation
[BMFT-FB-W-83-027] 10 p1431 N84-19356

SCHMIDT, D. K.
Dynamics and control of forward swept wing aircraft
[NASA-CR-175369] 08 p1103 N84-17172
The integrated manual and automatic control of complex flight systems
[NASA-CR-173308] 09 p1257 N84-18207
Pilot modeling, modal analysis, and control of large flexible aircraft 11 p1617 N84-20584
An optimal control approach to pilot/vehicle analysis and Neal-Smith criteria
[NASA-CR-170416] 12 p1771 N84-21551
Optimal cooperative control synthesis applied to a control-configured aircraft
[NASA-CR-170411] 15 p2264 N84-24593
Interactive aircraft flight control and aeroelastic stabilization
[NASA-CR-173866] 21 p3344 N84-31214

SCHMIDT, D. L.
Proterozoic to mesozoic mobile-belt geology, Pensacola Mountains, Antarctica 14 p2162 N84-23947

SCHMIDT, F. A.
Tantalum-copper alloy and method for making
[DE84-011081] 20 p3155 N84-30037

SCHMIDT, G.
Solar high and low temperature application for arid countries
[MBB-UR-583-82-OE] 02 p0251 N84-11640
Automatic connection of map edges for adjacent CIPS data bases 07 p1019 N84-16613
Kuwait, phase 3/stage 1: Application and test program for the Sulaibyah food/water/power system
[BMFT-FB-T-84-024] 16 p2476 N84-25876
Complementary code and digital filtering for detection of weak VHF radar signals from the mesoscale
17 p2690 N84-27134
VHF radar measurements during MAP/WINE
17 p2691 N84-27135
The mobile Sousy-Doppler radar: Technical design and first results 17 p2693 N84-27152

SCHMIDT, G. D.
Determination of the Pavement Classification Number (PCN) of airfields
[ISBN-3-87977-0530] 02 p0182 N84-11185

SCHMIDT, G. K.
Fuel conservative guidance concept for shipboard landing of powered-lift aircraft
[NASA-TM-85971] 21 p3344 N84-31215

SCHMIDT, G. L.
Dissipation of magnetic energy during disruptive current termination
[IPPJ-644] 06 p0919 N84-15973
Abnormal energy deposition on the wall through plasma disruptions
[IPPJ-684] 23 p3827 N84-34273

SCHMIDT, G. T.
Advances in strapdown inertial systems: Introduction and overview 16 p2446 N84-25692

SCHMIDT, H.
Ion and neutron emission of the Poseidon plasma focus 10 p1582 N84-20370
Climatological and statistical bases to explain the treatment of climate data 19 p3056 N84-29391
Reports from the German Meteorological Service. Number 165: The wind conditions in the Federal Republic of Germany with a view to windpower utilization (especially network planning). Part 3: Interior. Part 4: Hinterland
[ISBN-3-88148-211-3] 19 p3057 N84-29393

SCHMIDT, H. E.
Simulations of the dynamics of optical bistability with fluctuations 14 p2236 N84-24421

SCHMIDT, H. P.
Integration of mathematical models: Experience of first Spacelab mission 10 p1444 N84-19431

SCHMIDT, J.
Magnetic switching
[DE83-012952] 03 p0433 N84-12841

SCHMIDT, J. F.
End-wall boundary layer measurements in a two-stage fan 07 p0957 N84-16208
Redesign and cascade tests of a supercritical controlled diffusion stator blade-section
[NASA-TM-83635] 13 p1926 N84-22533

SCHMIDT, J. M.
Geology and geochemistry of the Arctic prospect, Ambler District, Alaska 21 p3438 N84-31814

SCHMIDT, P. P.
The transfer of atoms, ions and molecular groups in solution. Part 1: Models and limits
[AD-A142333] 20 p3147 N84-29981
The transfer of atoms, ions and molecular groups in solution. Part 2: Tunnelling between harmonic wells
[AD-A142334] 20 p3147 N84-29982
The transfer of atoms, ions and molecular groups in solution. Part 3: Monte Carlo methods for the evaluation of rate constants
[AD-A142335] 20 p3147 N84-29983
A Taylor series in symmetry-adaptable functions
[AD-A142336] 20 p3280 N84-30819

SCHMIDT, R.
Modern software development tools in space projects on the example of a Spacelab experiment
05 p0725 N84-14761

Laboratory measurement of impact ionization
08 p1118 N84-17271
Software interoperability and reusability, volume 1
[AD-A138477] 12 p1883 N84-22276
Software interoperability and reusability. Volume 2: Guidebook for software quality measurement
[AD-A138478] 12 p1884 N84-22277
The magnetic field experiment for the Venus-Halley (VEGA) mission
[IWF-8301] 17 p2777 N84-27633
Observations of fast magnetospheric echoes of artificially injected electrons above an auroral arc
[BMFT-FB-W-84-014] 19 p3055 N84-29390
Multiple source DF (Direction Finding) signal processing: An experimental system
[AD-P003515] 21 p3385 N84-31483

SCHMIDT, R. E.
Observations of faint planetary satellites with a charge-coupled device 19 p3120 N84-29832

SCHMIDT, R. F.
The correction of aberrations computed in the aperture plane of multifrequency microwave radiometer antennas
[NASA-TM-86090] 22 p3581 N84-32679

SCHMIDT, R. J.
Theoretical and software considerations for nonlinear dynamic analysis
[NASA-CR-174504] 06 p0858 N84-15589

SCHMIDT, R. L.
Software quality measurement for distributed systems, volume 1
[AD-A137955] 11 p1707 N84-21128
Software quality measurement for distributed systems. Volume 2: Guidebook for software quality measurement
[AD-A137956] 11 p1707 N84-21129
Software quality measurement for distributed systems. Volume 3: Distributed computing systems. Impact on software quality
[AD-A137957] 11 p1708 N84-21130
Chemical attenuation rates, coefficients, and constants in leachate migration. Volume 1: A critical review
[DE84-009432] 20 p3238 N84-30557

SCHMIDT, S. C.
Fast, non-linear optical-scattering spectroscopy in shock-compressed organic liquids
[DE83-007548] 01 p0148 N84-10972
Raman spectroscopies in shock-compressed materials
[DE83-014170] 02 p0190 N84-11236
Single-pulse coherent Raman spectroscopy in shock-compressed benzene
[DE83-014140] 02 p0219 N84-11433
Optical diagnostics for condensed-phase shock-compressed molecular systems
[DE84-001172] 06 p0845 N84-15510

SCHMIDT, W.
Numerical solutions of the Euler equations simulating vortex flows around wings 03 p0324 N84-12120
Tornado autopilot measures to ensure survivability after failures 06 p0777 N84-15094
The ductility of metal diffusion coatings on nickel alloys and their characterization
[BLL-RISLEY-TRANS-4883] 12 p1795 N84-21706

SCHMITT-VONSCHUBERT, B.
Variation of the size of nitrogen droplets in a flow of gaseous nitrogen
[DFVLR-FB-83-13] 02 p0221 N84-11450

SCHMITT, A. J.
Absolutely uniform illumination of laser fusion pellets
[AD-A138944] 13 p1995 N84-22951

SCHMITT, D.
Smart motor technology 15 p2349 N84-25096

SCHMITT, F.
Estimation of channel capacity of the time variable multipath channel
[LFD-208] 15 p2318 N84-24912

SCHMITT, F. J.
The neutron induced embrittlement of reactor pressure vessel steels and ferritic alloys
[AD-B080746] 15 p2295 N84-24770

SCHMITT, G.
Modular and standardized GAS payload hardware
18 p2799 N84-27765
The G-002 JUFO-1 payload: Its objectives and results
18 p2801 N84-27776

SCHMITT, G. F.
The effect of accelerated ultra violet weathering on the rain erosion resistance of coated aircraft transparencies
[AD-P003194] 17 p2591 N84-26607

SCHMITT, K.
Radiation and particle emission from a 1.6 kJ plasma focus 10 p1581 N84-20362
Observation of nonlinear phenomena
10 p1584 N84-20385

SCHMITT, M. J.
Development program for a 200kW, CW gyrotron
[DE84-007945] 14 p2149 N84-23874

SCHMITT, N.
Operationalizing halo: Problems with the computation of a standard deviation across dimensions within rates
[AD-A138393] 12 p1867 N84-22164

SCHMITT, R.
Investigations of micro-turbulence in the bottom of the boundary layer
[AD-A138524] 12 p1861 N84-22123

SCHMITT, R. J.
Study of nitration and oxidation in oxynitrogen systems
[AD-A132742] 05 p0650 N84-14271

SCHMITT, W.
Army digital test requirements analytic report
[AD-A137394] 10 p1486 N84-19714

SCHMITTNER, R.
Simulation of the reaction of optical systems in the manufacturing process
[BMFT-FB-T-84-126] 23 p3728 N84-33622

SCHMITZ, B. W.
Hot gas APU starter for advanced aircraft applications
03 p0335 N84-12178

SCHMITZ, C. P.
MINIVER upgrade for the AVID system. Volume 2: LANMIN input guide
[NASA-CR-172213] 01 p0120 N84-10780
MINIVER upgrade for the AVID system. Volume 3: EXITS user's and input guide
[NASA-CR-172214] 02 p0271 N84-11773

SCHMITZ, D. R.
Small-scale magnetic features of the polar regions
14 p2162 N84-23949

SCHMITZ, F. H.
Model helicopter rotor high-speed impulsive noise: Measured acoustics and blade pressures
[NASA-TM-85850] 01 p0003 N84-10020
Helicopter impulsive noise: Theoretical and experimental status
[NASA-TM-84390] 09 p1386 N84-19050
Experiment versus theory 19 p3098 N84-29679

SCHMITZ, F. J.
Rotary wing aerodynamically generated noise
19 p3097 N84-29668

SCHMITZ, M.
Far infrared supplement: Catalog of infrared observations
[NASA-RP-1119] 16 p2574 N84-26519
Catalog of infrared observations including: Bibliography of infrared astronomy and index of infrared source positions
[NASA-RP-1118] 16 p2574 N84-26520

SCHMOLZE, J.
Research in knowledge representation for natural language understanding
[AD-A134102] 05 p0726 N84-14765

SCHMUCH, R.
Enhanced efficiency of modern four-stroke Diesel engines in generator operation
23 p3757 N84-33817

SCHMUCKER, R. H.
Flow processes in overexpanded chemical rocket nozzles. Part 1: Flow separation
[NASA-TM-77396] 10 p1450 N84-19470
Flow processes in overexpanded chemical rocket nozzles. Part 2: Side loads due to asymmetric separation
[NASA-TM-77395] 10 p1450 N84-19471

SCHMUGGE, T. J.
Effects of vegetation canopy on the radar backscattering coefficient
[NASA-TM-85070] 02 p0208 N84-11359
Aircraft remote sensing of soil moisture and hydrologic parameters, Taylor Creek, Florida, and Little River, Georgia, 1979 data report
[E84-10010] 02 p0236 N84-11548
Microwave radiometer experiment of soil moisture sensing at BARC test site during summer 1981
[NASA-TM-86056] 14 p2168 N84-23989

SCHMUNK, R. E.
Tensile and low-cycle fatigue measurements on cross-rolled tungsten at 1505 K
[DE84-000805] 04 p0499 N84-13273

SCHMUTZ, W.
The nitrogen abundance in WC stars
24 p3977 N84-35192

SCHNABEL, R. B.
Quasi-Newton methods using multiple secant equations
[AD-A131444] 02 p0282 N84-11847

SCHNABEL, W.
The development and study of sensitive and process-compatible polymers for X-ray lithography
[BMFT-FB-T-83-122] 02 p0202 N84-11314

SCHNACK, D. D.
Reversed-field pinch large aspect ratio equilibrium
[DE83-016771] 03 p0449 N84-12953
Reversed-field pinch dynamics and transport studies
[DE84-009054] 15 p2411 N84-25472

SCHNACKE, A. W.
Fuel cell stack with internal manifolds for reactant gases
[DE84-014662] 23 p3743 N84-33729

SCHNAPF, A.
Study to forecast and determine characteristics of world satellite communications market
[NASA-CR-168270] 07 p0991 N84-16426

SCHNECK, D. J.
A non-dimensional analysis of cardiovascular response to cold stress. Part 1: Identification of the physical parameters that govern the thermoregulatory function of the cardiovascular system
[AD-A138710] 15 p2380 N84-25285
A non-dimensional analysis of cardiovascular response to cold stress. Part 1: Identification of the physical parameters that govern the thermoregulatory function of the cardiovascular system
[AD-A138710] 17 p2745 N84-27429

SCHNECK, P.
NASA-wide standard administrative systems
11 p1749 N84-21415

SCHNEEWEISS, H.
CADAS: A computer aided design tool for avionic systems 06 p0773 N84-15065

SCHNEIBEL, J. H.
Sulfur and antimony segregation to creep cavity surfaces in Ni and an FCC Fe-Ni-Cr alloy
[DE84-011458] 20 p3154 N84-30028

SCHNEIDER, A.
UHF radiowave propagation through forests
[AD-A130399] 01 p0062 N84-10408

SCHNEIDER, B. I.
Resonances in electron-molecule scattering and photoionization
[DE84-012660] 21 p3494 N84-32139

SCHNEIDER, E.
Quenchings and outbursts of extragalactic radio sources: Nine years of 3.3-mm measurements and comparisons with centimeter-wave variations
[AD-A138233] 13 p2092 N84-23550

SCHNEIDER, E. M.
Analysis of housekeeping radiolinks satellite/ground station
[INPE-3097-NTE/217] 17 p2652 N84-26957
A description of the ground segment of CNES, ESA, and TELESAT
[INPE-2984-NTE/211] 22 p3539 N84-32407
Decommutation system
[INPE-3148-NTE/220] 23 p3730 N84-33639

SCHNEIDER, E. T.
Real-time pilot guidance system for improved flight test maneuvers
[NASA-TM-84922] 07 p0952 N84-16176

SCHNEIDER, G.
Preliminary design of aircraft using structural optimization methods 02 p0172 N84-11133
Phase A study for a test satellite for propagation and transmission experiments in the 20/30 GHz frequency band
[BMFT-FB-W-83-009] 03 p0362 N84-12355

SCHNEIDER, H.
A utility plant simulator for control room experiments
20 p3264 N84-30706

SCHNEIDER, H. J.
Modern software development tools in space projects on the example of a Spacelab experiment
05 p0725 N84-14761

SCHNEIDER, J.
Numerical modeling techniques according to the wave equation and the ray method
[BMFT-FB-T-83-136] 03 p0362 N84-12354
The process of technological innovation: Reviewing the literature 16 p2566 N84-26486

SCHNEIDER, J. F.
Automatic shock calibration of accelerometers
[AD-A141005] 18 p2844 N84-28061

SCHNEIDER, J. W.
Stress relaxation of cellular silicone material, 1983
[DE84-007103] 12 p1802 N84-21749

SCHNEIDER, K.
Study report on a modular photovoltaic power supply system for space application
[BMFT-FB-W-84-010] 19 p2983 N84-28904

SCHNEIDER, M.
Establishing observation equations by means of series expansion into eigenfunctions
[TUM-MITT-163] 05 p0739 N84-14851

SCHNEIDER, N. S.
Preparation and properties of polyurethane and polyurethaneurea elastomers from methylene bis(4-cyclohexylisocyanate)
[AD-A137645] 11 p1637 N84-20704

SCHNEIDER, R. F.
Charge state resolved energy spectra of He, N, Ar, and Ne ions 10 p1582 N84-20366
Study of electron beam production by a plasma focus 10 p1582 N84-20367
SCHNEIDER, S. J.
Flow between rotating disks. Part 1: Basic flow 15 p2315 N84-24890
Flow between rotating disks. Part 2: Stability 15 p2315 N84-24891
SCHNEIDER, S. R.
Fire detection using the NOAA (National Oceanic and Atmospheric Administration)-series satellites [PB84-176890] 17 p2722 N84-27324
SCHNEIDER, W.
Particle acceleration by electron plasma waves 10 p1582 N84-20369
A plasma focus with improved reproducibility 10 p1583 N84-20375
SCHNEIDER, W. A.
Broadband cavity-backed slot using printed circuit technology [AD-P003508] 21 p3384 N84-31476
SCHNEIDER, W. R.
The Total Library System (TLS). Volume 1: What it can do for you [AD-A130336] 01 p0161 N84-11058
SCHNEIER, J. S.
Automated standard nautical chart production [AD-A132249] 04 p0553 N84-13644
SCHNELL, W. D.
Observations on the vanadium-nitrogen system and on pure metallic vanadium [CSIR-TRANS-1708] 06 p0805 N84-15243
SCHNELLER, D.
German/Indian cooperation program for solar powered water pumps, phase 1 [BMFT-FB-T-83-171] 07 p1026 N84-16851
SCHNEPF, E.
The SLxE program for the solution of nonlinear systems for elliptic differential equations [REPT-23/83] 24 p3953 N84-35033
SCHNEPPLE, W.
Large-area mercuric iodide photodectors [DE83-013035] 03 p0441 N84-12898
SCHNEPPLE, W. F.
Crystal growth and applications of mercuric iodide [DE83-016731] 02 p0299 N84-11966
SCHNETZLER, C. C.
Mapping magnetized geologic structures from space: The effect of orbital and body parameters [E84-10191] 22 p3614 N84-32895
SCHNITZLER, A. D.
Assessment of the potential of Langmuir-Blodgett films for room temperature IR (infrared) detectors [AD-A134616] 08 p1161 N84-17561
SCHNOOF, C.
Techniques for fatigue life predictions from measured strains [NASA-CR-171118] 20 p3201 N84-30334
SCHOCH, L. B.
Demonstration of angular anisotropy in the output of Thematic Mapper [E84-10095] 10 p1522 N84-19965
The effect of point-spread function interaction with radiance from heterogeneous scenes on multitemporal signature analysis 20 p3211 N84-30400
SCHOCK, H. J.
Multicomponent velocity measurement in a pison-cylinder configuration using laser velocimetry [NASA-TM-83534] 05 p0627 N84-14121
A dynamic analysis of rotary combustion engine seals [NASA-TM-83536] 05 p0688 N84-14519
A review of internal combustion engine combustion chamber process studies at NASA Lewis Research Center [NASA-TM-83666] 15 p2331 N84-24999
SCHOCK, H. W.
Technical use of solar energy. Part 1. Thin films solar cells [BMFT-FB-T-83-298-PT-1] 15 p2362 N84-25172
SCHOCK, R. N.
Mechanisms of electrical conductivity in olivine [DE83-017313] 22 p3588 N84-32723
SCHOCK, R. W.
An investigation into the probabilistic combination of quasi-static and random accelerations [NASA-TM-82584] 18 p2852 N84-28111
SCHOEBE, B.
Wind energy converter GROWIAN 2 [BMFT-FB-T-84-063] 19 p3051 N84-29364
SCHOELER, H.
The measurement of heat transfer and temperature distributions in hypersonic testing 16 p2441 N84-25662
SCHOELKOPF, W.
Improvement of flat plate collectors for solar energy conversion [BMFT-FB-T-84-042] 16 p2519 N84-26167
SCHOELL, M.
On the genesis of hydrocarbons in the German Alpine foreland [BMFT-FB-T-83-103] 02 p0250 N84-11637
SCHOEN, J.
Aeroelastic problems caused by tornados and their successful treatment with technologies that result from experiences of precedent intensive technologic modernizing [MBB-FE-294/S/PUB/110] 19 p3035 N84-29253
SCHOENAUER, W.
Development of a self-adapted error-controlled difference method to solve the three-dimensional laminar incompressible boundary layer equations by numerically given contours determined by points [REPT-24/83] 19 p3025 N84-29186
The SLxE program for the solution of nonlinear systems for elliptic differential equations [REPT-23/83] 24 p3953 N84-35033
SCHOENBACH, K.
Coordinated research program in pulsed power physics [AD-A129554] 01 p0138 N84-10905
SCHOENBERG, I. J.
On a theorem of Szegoe on univalent convex maps of the unit circle [AD-A139256] 14 p2212 N84-24286
On the equidecomposability of a regular triangle and a square of equal areas [AD-A139270] 14 p2213 N84-24290
A direct approach to the Villarceau circles of a torus [AD-A141653] 19 p3086 N84-29587
SCHOENBERG, K. F.
Poloidal field system design for the ZT-H reversed field pinch experiment [DE84-004328] 10 p1586 N84-20396
Observations of ramped current operation in ZT-40M [DE84-015076] 23 p3829 N84-34286
SCHOENBERNER, D.
IUE-high resolution of ONV-stars 24 p3976 N84-35180
An estimate of V348 Sgr effective temperature 24 p3978 N84-35201
SCHOENE, G.
Processing of optical gray value patterns [BMFT-FB-DV-83-003] 10 p1579 N84-20348
SCHOENEMAN, B. D.
Experimental research facility for creep-rupture testing of tantalum alloy T-111 [DE84-012030] 20 p3155 N84-30036
SCHOENIKE, R. L.
LSI (Large Scale Integrated) design for testability: Design, demonstration and testability analysis [AD-A135899] 09 p1308 N84-18550
SCHOENMAN, L.
Combustion performance and heat transfer characterization of LOX/hydrocarbon type propellants, volume 2 [NASA-CR-171714] 02 p0202 N84-11318
Oxygen/hydrogen thrusters for the space station auxiliary propulsion systems 20 p3140 N84-29934
SCHOENUNG, B.
Eulerian and Lagrangian predictions of particulate two phase flows [KU-SFB-80/T/222] 05 p0682 N84-14481
Theoretical studies of solid particles in laminar and turbulent flows [KU-SFB-80/T/223] 14 p2146 N84-23863
SCHOENWETTER, H. K.
AC voltage calibrations for the 0.1 Hz to 10 Hz frequency range [PB84-109867] 08 p1163 N84-17570
SCHOEVERS, H. W. C. L.
APU in commercial airline operation 03 p0334 N84-12173
SCHOEYER, H. F. R.
Solid fuel combustion chamber [VTH-LR-392] 12 p1803 N84-21756
SCHOFIELD, J.
Argonne integrated heterogeneous file transfer network [DE84-012092] 20 p3277 N84-30803
SCHOFIELD, J. R., JR.
Altering the application of the traditional systems lifecycle [DE84-000052] 10 p1505 N84-19837
SCHOFIELD, N., JR.
Documentation for the machine-readable version of the SAO-HD-GC-DM cross index version 1983 [NASA-TM-85570] 13 p2071 N84-23418
SCHOFIELD, W. H.
Interaction of a turbulent boundary layer with a normal shock wave followed by an adverse pressure gradient [ARL-MECH-ENG-REPT-161] 07 p1000 N84-16487
On separating turbulent boundary layers [ARL-MECH-ENG-REPT-162] 14 p2144 N84-23851
SCHOLER, M.
Iron charge states observed in the solar wind 03 p0473 N84-13112
SCHOLTEN, H. J. P.
Flight Track and Aircraft Noise Monitoring System (FANAMOS) [NLR-MP-83043-U] 17 p2725 N84-27343
SCHOLTEN, W. B.
Activa Program Research Requirements (APRR), volume 1 [DE84-002141] 12 p1921 N84-22513
SCHOLTZ, A. L.
Experimental assessment of semiconductor lasers for optical data links in space 24 p3905 N84-34729
Receiver concepts for data transmission at 10 microns 24 p3905 N84-34732
SCHOLTZ, R. A.
Research Trends in Military Communications [AD-A138229] 13 p1975 N84-22821
SCHOMAKER, C. W.
A model for tidal circulation adapted to Monterey Bay, California [AD-A135077] 09 p1351 N84-18827
SCHOMER, P. D.
Strategies for and validity of noise monitoring in the vicinity of civilian airfields and army installations [AD-A137780] 11 p1729 N84-21279
Community reaction to impulsive noise: A 10-year research summary [AD-A141762] 19 p3052 N84-29369
SCHON, J. P.
Instantaneous concentration and velocity measurements through laser visualization associated with a digital processing system 16 p2491 N84-25978
SCHON, M.
Hydrotreating of coal derived liquids [BMFT-FB-T-83-175] 07 p0973 N84-16304
SCHONFELD, D.
NASTRAN structural model for the large 64-meter antenna pedestal. Part 3: Applications to hydrostatic bearing oil film 22 p3574 N84-32638
SCHONFELD, J. F.
The effects of beam-beam collisions on storage-ring peformance: A pedagogical review [DE83-012773] 01 p0144 N84-10944
New soluble approximation to Fokker-Planck equations [DE83-016210] 03 p0426 N84-12791
SCHOOF, R. J.
Quadratic fields and factorization 08 p1225 N84-18002
SCHOOLAR, R. B.
Calculations of misfit dislocation and dangling bond densities in abrupt Hg sub (1-x) Cd sub x Te heterojunctions [AD-A138241] 12 p1914 N84-22467
SCHOPF, G.
Proposed MIL-STD for avionics installation interfaces [AD-P003578] 21 p3338 N84-31183
SCHOPF, P.
Design of coupled ocean-atmosphere experiments 12 p1856 N84-22093
SCHOPPER, M. R.
Interaction of aerodynamic noise with laminar boundary layers in supersonic wind tunnels [NASA-CR-3621] 11 p1651 N84-20781
SCHORR, F.
Understanding picture-text instructions [AD-A139746] 15 p2382 N84-25287
SCHOTLAND, R. M.
Recovery of spectral optical depth and zero-airmass solar spectral irradiance under conditions of temporally varying optical depth 23 p3775 N84-33930
SCHOTT, C. E.
Evaluation of NRL glass for fiber optics, phase 2 [AD-A136017] 09 p1390 N84-19076
SCHOTT, G. L.
Measured Hugoniot states of a 2-element fluid, O-2 + N sub 2 prime, near 2 Mg/m-3 [DE83-015910] 05 p0662 N84-14349
SCHOTT, J. R.
Evaluation of the radiometric integrity of LANDSAT-4 Thematic Mapper band 6 data 20 p3207 N84-30375
SCHOTTE, K. D.
Optimized He 2 cooling systems for space application. Behavior and handling of superfluid helium at G = 0, phase 1 [BMFT-FB-W-83-008] 02 p0207 N84-11349

Optimized He 2 cooling systems for space application. Behavior and handling of superfluid helium at g = 0, phase 2
[BMFT-FB-W-84-006] 19 p3025 N84-29185

SCHOTTE, U.
Optimized He 2 cooling systems for space application. Behavior and handling of superfluid helium at G = 0, phase 1
[BMFT-FB-W-83-008] 02 p0207 N84-11349
Optimized He 2 cooling systems for space application. Behavior and handling of superfluid helium at g = 0, phase 2
[BMFT-FB-W-84-006] 19 p3025 N84-29185

SCHOTZ, F. M.
Software reliability: Additional investigations into modeling with replicated experiments
[NASA-CR-172378] 19 p3074 N84-29502

SCHOULER, E. J. L.
Research and development on high temperature water vapor electrolysis 11 p1739 N84-21348

SCHOUTENS, A.
Current methods of evaluation of bone mineral content 23 p3807 N84-34142
Animal models of disuse osteoporosis 23 p3809 N84-34153

SCHOWENGERDT, R.
LANDSAT-4 thematic mapper Modulation Transfer Function (MTF) evaluation
[E84-10014] 02 p0236 N84-11552
MTF analysis of LANDSAT-4 Thematic Mapper 20 p3209 N84-30388
LANDSAT-4 Thematic Mapper Modulation Transfer Function (MTF) evaluation
[E84-10188] 21 p3430 N84-31759

SCHOWENGERDT, R. A.
Feasibility studies of optical processing of image bandwidth compression schemes
[AD-A138736] 13 p2043 N84-23254

SCHRA, L.
Fracture toughness and corrosion properties of the aluminum plate alloys 7010-T651 and 7150-T6E189
[NLR-TR-82125-U] 15 p2296 N84-24781
Effect of cooling rate on corrosion properties and microstructure of high strength aluminum alloys
[NLR-TR-82105-U] 15 p2297 N84-24783
Engineering property comparisons of Powder Metallurgy (PM) alloy X7901-T7E69 and Ingot Metallurgy (IM) alloy forgings
[NLR-MEMO-SM-83-050-U] 23 p3720 N84-33583

SCHRADER, A. M.
Toward a theory of library and information science 13 p2067 N84-23405

SCHRADER, C.
Changes in TM response of soil scenes due to tillage, residue, and weathering 23 p3766 N84-33874

SCHRAG, R. C.
LISP implementation baseline investigation
[AD-A144244] 24 p3946 N84-34983
LOGLISP sequential forms with resolution semantics
[AD-A144413] 24 p3946 N84-34989

SCHRAM, D. K.
Evaluation of a carbon dioxide scrubber in a 2-lock recompression chamber
[AD-A141052] 19 p2969 N84-28816

SCHRAM, E. P.
New gallium precursors for the formation of high purity gallium arsenide by metal organic vapor phase deposition
[AD-A143361] 22 p3663 N84-33219

SCHRAMM, D. N.
Origin of the ultra-high-energy cosmic rays
[DE83-013760] 02 p0309 N84-12025
Evolution of the ultra high energy cosmic ray spectron by transport equation
[DE83-013711] 03 p0476 N84-13132
The 182-Hf: A new short-lived r-process chronometer
[DE83-015698] 05 p0764 N84-15009
Hf-182: A new stopwatch for the early solar system
[DE83-011486] 07 p1090 N84-17088

SCHRAMM, S. W.
Embedded gage impact study
[NASA-CR-172227] 08 p1161 N84-17558

SCHRAUF, G.
Solutions of the Navier-Stokes equations for stationary flow in a spherical gap
[PREPRINT-611] 13 p1991 N84-22925

SCHREADLEY, H. W.
A digital linear position sensor for flight control actuation
[AD-A144283] 24 p3856 N84-34446

SCHRECK, R. M.
Exposure chamber for studies of pollutant gases and aerosols in human subjects: Design considerations
[DE84-001135] 06 p0890 N84-15785

SCHRECK, S. J.
Continued experimental investigation of dynamic stall
[AD-A136920] 10 p1421 N84-19294

SCHREIBER, R.
A systolic architecture for singular value decomposition
[AD-A130098] 01 p0132 N84-10884
Numerical methods for partial differential equations
[AD-A137624] 11 p1713 N84-21167

SCHREIBER, W. F.
Cognitive information processing 22 p3684 N84-33360

SCHREINER, H.
Comparative study of TIN hard coatings produced by reactive sputtering, ion-plating and CVD technique
[BLL-RARDE-TR-1094(7291.7965)] 06 p0804 N84-15236

SCHREITMUELLER, W.
Performance assessment of Serial Minimum Shift Keying (SMSK) modulation technique. Volume 1: Executive summary
[ESA-CR(P)-1840-VOL-1] 12 p1809 N84-21796
Performance assessment of Serial Minimum Shift Keying (SMSK) modulation technique, volume 2
[ESA-CR(P)-1840-VOL-2] 12 p1809 N84-21797

SCHREMPF, B.
Symposium on Heat Pumps per DIN 8900
[BLL-TRANS-T5843/BG-MRS1796-82] 01 p0076 N84-10500

SCHREMPP, W.
Study of Attitude Control and Guidance System (ACGS) for orbit change stage
[ESA-CR(P)-1797] 08 p1120 N84-17285

SCHREURS, E. F.
Arcing phenomena in high voltage fuses
[EUT-83-E-137] 10 p1489 N84-19736

SCHREY, U.
Precision measurements of line positions and profile at a wavelength of ten micrometers
[MPE-180] 10 p1579 N84-20346

SCHRIEDER, W.
Concept study phase A2 for the solar spectrograph PETRA
[BMFT-FB-W-83-014] 07 p1008 N84-16540

SCHRIMPF, R. J.
Hoop/column antenna RF verification model. Volume 2: Analysis and correlation
[NASA-CR-172413] 21 p3382 N84-31462
Hoop/column antenna: RF verification model. Volume 1: Test results
[NASA-CR-172412] 21 p3382 N84-31463

SCHRING, J. E.
Development of GAP-TAGN-PEG propellants. Part 1: Study of ingredients 20 p3143 N84-29954

SCHRODER, D. K.
Fundamentals of metal-semiconductor contacts 12 p1838 N84-21985

SCHROEDER, B.
Preparation of thin amorphous silicon films for thin film solar cells
[BMFT-FB-T-84-018] 16 p2518 N84-26166
Development of a production process for central receiver coatings
[BMFT-FB-T-84-124] 23 p3792 N84-34051

SCHROEDER, D. J.
Job attitudes toward the new maintenance concept of the airway facilities service
[AD-A133282] 06 p0891 N84-15793

SCHROEDER, H.
Effect of implanted helium on the microstructure and creep properties of ordered (FeO.49 NiO.51) V-3 alloys
[DE84-000691] 04 p0500 N84-13278

SCHROEDER, J. E.
Preliminary evaluation of the light pen as the key component in a microcomputer-based simulator
[AD-A132596] 05 p0719 N84-14712
Absorbable-susceptor joining of ceramic surfaces
[NASA-CASE-NPO-15640-1] 13 p1962 N84-22748

SCHROEDER, K. G.
Computer analysis of phased array far-field patterns for non-symmetrical feed networks
[AD-P003502] 21 p3383 N84-31470

SCHROEDER, L. C.
Flight measurement and analysis of AAFE RADSCAT wind speed signature of the ocean
[NASA-TM-85646] 08 p1194 N84-17784
SASS 1 model function evaluation and upgrade 23 p3778 N84-33956

SCHROEDER, M.
Flight performance of the Spacelab metric camera experiment 23 p3764 N84-33858

SCHROEDER, R. J.
Experiments and theory on half-harmonic light and 2-plasmon decay
[DE84-008945] 20 p3193 N84-30276

SCHROEDER, T. F.
Weld penetration variations
[DE84-007915] 13 p1996 N84-22963

SCHROEDER, W.
Graphical error analysis
[BMFT-FB-T-84-081] 22 p3642 N84-33093

SCHROETER, K.
Sintered hard metal alloys and process for their manufacture
[CSIR-TRANS-1748] 22 p3552 N84-32493

SCHROEVERS, P.
A comparative survey of numerical methods for the linear generalized Abel integral equation
[MC-NW-155/83] 07 p1065 N84-16915

SCHROTH, A.
Radar meteorology in cloud physics and radio wave propagation research
[ESA-TT-808] 03 p0412 N84-12695
Coherent polarimetric C-band radar for atmospheric research 23 p3776 N84-33937

SCHRUBEN, J. S.
Control of thermal stress in dendritic web growth 18 p2936 N84-28636

SCHRUM, J. B.
Finite element grid optimization
[AD-A136025] 09 p1378 N84-19001

SCHUBER, D.
Advanced combustor liner cooling concepts 15 p2292 N84-24756

SCHUBERT, B.
Fabrication of structures on semiconductors by X-rays: Comparison and optimization of mask technologies
[BMFT-FB-T-83-071] 02 p0300 N84-11968

SCHUBERT, C. W., JR.
The rocket-triggered lightning investigation
[AD-A131409] 02 p0249 N84-11631

SCHUBERT, F. H.
Advanced air revitalization system testing
[NASA-CR-166540] 08 p1205 N84-17855
Static feed water electrolysis subsystem testing and component development
[NASA-CR-166539] 08 p1205 N84-17856
Electrochemical carbon dioxide concentrator subsystem development
[NASA-CR-166538] 08 p1205 N84-17857

SCHUBERT, J. F.
SRL tethersonde and echosonde data, Anderson Creek Valley, California
[DE84-001680] 04 p0564 N84-13715

SCHUBERT, S.
Predictability experiments using a low order empirically corrected dynamical model 12 p1854 N84-22077

SCHUBERT, S. D.
A statistical-dynamical study of the large-scale intraseasonal variability of the northern hemisphere winter circulation 08 p1184 N84-17716

SCHUBERT, W. H.
Studies of Chebyshev spectral methods and multigrid methods
[AD-A142014] 20 p3245 N84-30596

SCHUBERT, W. K.
Polyimides for use in integrated circuits
[DE83-016769] 02 p0201 N84-11310
Effects of light and modulation frequency on spin-dependent trapping at silicon grain boundaries
[DE84-002107] 07 p1082 N84-17035

SCHUCANY, W. R.
Minimum distance estimation of mixture model parameters: Asymptotic results and simulation comparisons with maximum likelihood
[AD-A130426] 01 p0136 N84-10889

SCHUCHMAN, L.
Tracking and data acquisition system for the 1990's. Volume 1: Executive summary
[NASA-CR-175193] 10 p1433 N84-19369

SCHUCHMAN, R. H.
Eddy studies during Marginal Ice Zone Experiment (MIZEX) 83 by ship and remote sensing observations 23 p3772 N84-33914

SCHUCK, C. W.
Automated en route air traffic control algorithmic specifications. Volume 5: Data specification
[AD-A136851] 10 p1426 N84-19325

SCHUELLER, H. J.
Damage to welding seams 14 p2126 N84-23748

SCHUERER, K.
Contributions to imaging quality and heighting accuracy of aerial cameras used at fairly high altitudes 19 p3040 N84-29284

SCHUERER, P. H.
Cryogenic insulation strength and bond tester
[NASA-CASE-MFS-25910-1] 02 p0199 N84-11297

SCHUESSLER, H.
Development of a prototype cathode sputtering plant
[BMFT-FB-T-83-251] 10 p1472 N84-19617

Ocean wind field measurement performance of the ERS-1 scatterometer 17 p2713 N84-27273

SCHUESSLER, H. A.
Laser-induced fluorescence line narrowing in atomic vapors
[DE83-018216] 04 p0541 N84-13558

SCHUETZ, D.
Comparison of fatigue life prediction based on local strains and nominal stresses respectively
[LBF-FB-169(183)] 10 p1518 N84-19937

SCHUETZE, R.
Recognizing defects in carbon-fiber reinforced plastics
[NASA-TM-76947] 06 p0786 N84-15143

SCHUH, A.
Soliton bag: Dynamics and the quark plasma
[DE84-001103] 05 p0745 N84-14895

SCHUH, H.
First experiences with the Mark 3 Very Long Baseline Interferometry (VLBI) data analysis system
02 p0234 N84-11536

SCHUH, R. M.
Electric vehicle propulsion alternatives
[NASA-TM-83504] 10 p1529 N84-20017

SCHULER, A. M.
Re-examination of beta-alumina doped with chromium using photoacoustic spectroscopy
11 p1742 N84-21369

SCHULER, D. L.
An improved dual-frequency technique for the remote sensing of ocean currents and wave spectra
17 p2714 N84-27281

SCHULER, J. A.
Proposed revisions to MIL-F-8785C related to flight safety of augmented aircraft. Volume 2. Appendices A - F
[AD-A131415] 02 p0176 N84-11154

SCHULER, J. M.
Proposed revisions to MIL-F-8785C related to flight safety of augmented aircraft. Volume 1. Section 1 - 7
[AD-A131414] 02 p0175 N84-11153
Proposed revisions to MIL-F-8785C related to flight safety of augmented aircraft. Volume 3. Appendix G. Pilot comments
[AD-A131416] 02 p0176 N84-11155

SCHULLER, F. T.
Operating characteristics of a three-piece-inner-ring large-bore roller bearing to speeds of 3 million DN
[NASA-TP-2355] 19 p3031 N84-29226

SCHULLER, I. K.
Magnetic properties of Mo/Ni superlattices
[DE84-000568] 04 p0614 N84-14053
Improved superconducting magnet wire
[DE84-011233] 21 p3393 N84-31531

SCHULLER, K. H.
Development of a prototype cathode sputtering plant
[BMFT-FB-T-83-251] 10 p1472 N84-19617

SCHULSON, E. M.
A study on the tensile strength of ice as a function of grain size
[AD-A134889] 08 p1172 N84-17631
Role of grain size on the brittle to ductile transition of the strongly ordered alloy Ni3Al
[DE84-014904] 22 p3556 N84-32519

SCHULTE, H. R.
Very large scale integration logical and physical structures of VLSI systems
[BMFT-FB-T-83-267] 10 p1488 N84-19730

SCHULTHEISS, P. J.
Geotechnical properties of deep sea sediments: A critical review of measurement techniques
[IOS-134] 02 p0258 N84-11689
King's Trough Flank: Geological and geophysical investigations of its suitability for high-level radioactive waste disposal
[IOS-166] 20 p3299 N84-30950

SCHULTYSIK, B.
Nutation damper for the AMPTE-IRM satellite: Final Report
[NASA-TM-77330] 05 p0643 N84-14228

SCHULTZ, A. P.
Broken-formations of the Pulaski thrust sheet near Pulaski, Virginia 23 p3794 N84-34061

SCHULTZ, D. F.
Heat pipes to reduce engine exhaust emissions
[NASA-CASE-LEW-12590-1] 13 p1997 N84-22958

SCHULTZ, E. R.
Self-deploying afterbody apparatus for an ejection seat
[AD-D011205] 24 p3852 N84-34433

SCHULTZ, F. J.
Multi-isotopic gamma ray assay system for alpha contaminated waste
[DE83-015254] 02 p0292 N84-11917

SCHULTZ, G. W.
PROJMNG FORTRAN: An interactive computer program for use with the defense management simulation exercise
[AD-A140709] 17 p2753 N84-27472

SCHULTZ, H.
Software Cost Estimation Workshop report
[AD-A139840] 15 p2392 N84-25354

SCHULTZ, J. H.
The 12-T solenoid-design options for the MFTF-B upgrade
[DE83-016646] 03 p0430 N84-12817

SCHULTZ, K. J.
Model helicopter rotor high-speed impulsive noise: Measured acoustics and blade pressures
[NASA-TM-85850] 01 p0003 N84-10020
Propeller and rotor noise testing in aeroacoustic wind tunnels 14 p2097 N84-23583

SCHULTZ, K. R.
Low-activation fusion-reactor design studies
[DE83-017688] 04 p0608 N84-14014

SCHULTZ, L. D.
High frequency radar software reference manual for product one
[PB84-194885] 22 p3578 N84-32665

SCHULTZ, M. H.
Solving the Poisson equation on the FPS-164 (Floating Point System-164)
[AD-A139307] 14 p2211 N84-24278
Preconditioning by fast direct methods for non-self-adjoint nonseparable elliptic equations
[AD-A139360] 14 p2219 N84-24316
A high performance bulk memory system
[AD-A140780] 17 p2749 N84-27451

SCHULTZ, P. H.
Impact basins and the volcanics of Mars
11 p1755 N84-21457

SCHULTZE, D.
New lasing ferroelectric material Pb5Ge3O11-Nd-3(+)
20 p3288 N84-30875

SCHULZ, B.
Design of a project plan for the establishment of a lunar factory
[ILR-MITT-123] 10 p1435 N84-19379

SCHULZ, B. S.
Noise reduction and line following in multiscanned data 19 p3039 N84-29283

SCHULZ, G.
A universal 3-dimensional wall pressure correction method for closed rectangular subsonic wind tunnel test sections (displacement, downwash, streamline curvature)
[ESA-TT-800] 13 p1935 N84-22588
Low authority control of flexible spacecraft via numerical optimization 15 p2268 N84-24621

SCHULZ, H.
Complete sample analysis by gas chromatography
[BLL-T6213/BG/LRS/LRST671/83]
06 p0800 N84-15212
Hydrotreating of coal derived liquids
[BMFT-FB-T-83-175] 07 p0973 N84-16304

SCHULZ, J.
Lead-acid battery with improved cycle life and increased efficiency for lead leveling application and electric road vehicles
[BMFT-FB-T-83-225] 10 p1489 N84-19734
Chemical utilization of the olefinic byproducts in pyrolysis naphtha by carbonylation and alkylation reaction
[BMFT-FB-T-84-064] 19 p2985 N84-28914

SCHULZ, K. J.
Geochemistry of volcanic rocks from the Wawa greenstone belt 11 p1680 N84-20963

SCHULZ, M.
Interdisciplinary study of directional discontinuities in the solar wind with ISPM 09 p1263 N84-18242

SCHULZ, P.
Investigations into the burning-out of organic substances in the ceramic body
[NASA-TM-77065] 01 p0049 N84-10315
Waste water treatment with the aid of the addition of activated carbon into the aeration station and reactivation of the spent carbon
[BMFT-FB-T-83-186] 07 p1028 N84-16661

SCHULZ, R.
Investigations of the feasibility of fabric filters at high temperatures and pressures for an energy saving method of gas purification
[BMFT-FB-T-83-292] 15 p2286 N84-24718

SCHULZ, U.
Intelligent flight data recorder: A contribution to on-condition maintenance and optimization of operation
17 p2585 N84-26568

SCHULZ, W.
Development of flight mechanics research in Brunswick 07 p0944 N84-16121

SCHULZE, R. A. P. J.
Modeling by means of networks
[IWECO-5177401-83-1] 12 p1804 N84-21761
Optimization of a stiffened plate
[IWECO-5071303-82-1] 12 p1827 N84-21911
Investigation of the strength of a flycatcher wheel suspension
[IWECO-5075410-83-01] 12 p1827 N84-21912

SCHUMACHER, B.
Thermal stability of four high-strength, high-conductivity copper sheet alloys
[DE83-013312] 01 p0045 N84-10288
Evaluation of several high-strength copper sheet alloys
[DE83-015612] 03 p0353 N84-12298

SCHUMACHER, J. C.
Stratigraphic, geochemical, and petrologic studies of the Ammonoosuc volcanics, northcentral Massachusetts and southwestern New Hampshire 13 p2013 N84-23059

SCHUMACHER, J. D.
Winter currents on the eastern Bering Sea shelf
[PB83-248823] 04 p0570 N84-13753

SCHUMACHER, L.
High speed, low power MOS technologies
[BMFT-FB-T-83-289] 12 p1916 N84-22484

SCHUMACHER, M. A.
Storage of synthetic turbine lubricants under adverse conditions
[AD-A132226] 04 p0506 N84-13319

SCHUMACHER, R. J.
PETN homolog analysis and large-scale preparation of pure PETN homologs by High-Performance Liquid Chromatography (HPLC)
[DE84-002169] 07 p0972 N84-16300

SCHUMAKER, L. L.
Spline classification methods
03 p0393 N84-12564

SCHUMICKI, G.
Development of technology, circuit design and simulation procedures for Very Large Scale Integration (VLSI) systems, volume 1
[BMFT-FB-T-83-170-VOL-1] 10 p1487 N84-19724
Development of technology, circuit design and simulation procedures for Very Large Scale Integration (VLSI) systems, volume 2
[BMFT-FB-T-83-170-VOL-2] 10 p1487 N84-19725

SCHUNK, R. W.
Models of the ionospheric environment
[AD-P002121] 16 p2524 N84-26207

SCHUSS, J. J.
Lower hybrid experiments at the 1 MW level on Alcator C: Heating and current drive
[DE84-010586] 20 p3304 N84-30981

SCHUST, A.
Unit production cost of the radar beacon transponder (Rbx)
[AD-A121532] 17 p2652 N84-26956

SCHUST, A. P.
Cost analysis of Mode S data link avionics system for the low-performance general aviation aircraft community
[DOT/FAA/PM-83/38] 18 p2795 N84-27735

SCHUSTER, G. B.
Thermolysis of 4-methyl-4-phenyl malonyl peroxide: A new oxygen dependent chemiluminescent reaction
[AD-A131863] 03 p0349 N84-12268
Exciplex ionic dissociation in non-polar solvent induced by multipolar salt complexes
[AD-A140919] 17 p2620 N84-26766

SCHUSTER, G. T.
Some boundary integral equation methods and their application to seismic exploration
24 p3918 N84-34803

SCHUSTER, H.
Constitutive equations for the creep behavior of nickel-base alloys for High Temperature Reactor (HTR) components in the temperature range 1023-1273 K
[JUEL-1843] 05 p0657 N84-14318
Carbide precipitation in nickel-base model alloys and its influence on ductility and fracture behavior at room temperature
[JUEL-1845] 05 p0657 N84-14319
Coherent polarimetric C-band radar for atmospheric research 23 p3776 N84-33937

SCHUSTER, L. S.
Preflight transient dynamic analyses of B-52 aircraft carrying Space Shuttle solid rocket booster drop-test vehicle
[NASA-TM-84925] 06 p0858 N84-15588

SCHUSTER, P. R.
Ultrasonic and optical evaluation of surgical implant materials and devices. A durability study of pericardial bioprostheses
[NASA-CR-173437] 16 p2535 N84-26274

SCHUTT, H. J.
Program Manager's Support System (PMSS): An update
[AD-P002825] 13 p2062 N84-23370
SCHUTT, J. B.
Diffusely reflecting paints including polytetrafluoroethylene and method of manufacture
[NASA-CASE-GSC-12883-1] 15 p2300 N84-24806
SCHUTTE, P. C.
A ground test measurement system for the shuttle entry air data system
[NASA-TM-85707] 02 p0184 N84-11193
SCHUTZ, B. E.
Relative motion characteristics of 2 near-Earth Satellites
[NASA-CR-173887] 22 p3678 N84-33316
SCHUTZ, K.
A practical guide to MAXLIK
[RAND/N-1914-RC-REV] 11 p1706 N84-21118
SCHUTZER, D.
Multi-sensor fusion, communications and information warfare
[AD-P002895] 13 p1980 N84-22855
SCHVANEVELDT, R. W.
Cognitive organization as a function of flying experience
[AD-A141767] 19 p3068 N84-29459
SCHWAB, A. P.
Chemical attenuation rates, coefficients, and constants in leachate migration. Volume 1: A critical review
[DE84-009432] 20 p3238 N84-30557
SCHWAB, D. J.
Signal processing in high data rate environments. Design tradeoffs in the exploitation of parallel architectures and fast system clock rates. An overview
09 p1401 N84-19151
SCHWAB, G. M.
Joint Atomic Information Exchange Group information management project. Task 2 briefing document. System specification and hardware/software purchase recommendations for JAIEG automated information management system
[DE84-001798] 06 p0936 N84-16083
SCHWAB, J. R.
Comparison of secondary flows predicted by a viscous code and an inviscid code with experimental data for a turning duct
[NASA-TM-83575] 08 p1098 N84-17142
SCHWAGER, F.
Impedance and ellipsometer measurements of lithium electrodes in propylene carbonate solutions
[DE84-003922] 07 p0998 N84-16475
SCHWAKE, A.
High pressure cosmochemistry applied to major planetary interiors: Experimental studies
[NASA-CR-173278] 08 p1245 N84-18138
SCHWALBE, K. H.
Review of the application of fracture mechanics: Possibilities and actual limits
[GKSS-83-E-63] 15 p2349 N84-25098
SCHWALLER, M.
Remote sensing for geobotanical prospecting
22 p3613 N84-32889
SCHWAMB, K. B.
Automated en route air traffic control algorithmic specifications. Volume 2: Airspace probe
[AD-A136850] 10 p1426 N84-19324
SCHWANEKE, A. E.
Digital instrumentation package or an improved torsion pendulum
[PB83-240424] 04 p0539 N84-13547
SCHWANZ, R. C.
Military aircraft research opportunities for the future
11 p1619 N84-20598
SCHWARMANN, L.
On improving the fatigue performance of a double-shear lap joint
[VFW-29/83-O] 16 p2561 N84-26431
SCHWARTE, R.
Performance capabilities of laser ranging sensors
24 p3904 N84-34726
SCHWARTZ, A.
FAA (Federal Aviation Administration) aviation forecasts -Fiscal Years 1984-1995
[AD-A138759] 13 p1929 N84-22549
Aging control number 4 of gas generator grains for RB 05 and RB 24
[FOA-C-20528-D1(D3)] 15 p2303 N84-24820
SCHWARTZ, B. J.
Statistics of crack growth in engine materials. Volume 2: Spectrum loading and advanced techniques
[AD-A140920] 17 p2680 N84-27072
SCHWARTZ, D. A.
A passively controlled appendage deployment system for the San Marco D/L spacecraft
15 p2347 N84-25081
A graph theoretic technique for the generation of systolic implementations for shift-invariant flow graphs
[AD-A142251] 19 p3090 N84-29615
SCHWARTZ, D. R.
Optional stopping performance under graphic and numeric CRT formatting
[AD-A143274] 22 p3586 N84-32712
SCHWARTZ, F. K.
Probable maximum precipitation and snowmelt criteria for southeast Alaska
[PB84-104371] 08 p1193 N84-17777
SCHWARTZ, H. J.
The potential impact of new power system technology on the design of a manned space station
[NASA-TM-83770] 21 p3354 N84-31272
SCHWARTZ, H. J. C.
Evaluation of a carbon dioxide scrubber in a 2-lock recompression chamber
[AD-A141052] 19 p2969 N84-28816
SCHWARTZ, M.
Position and restraint system for aircrewman
[AD-D011058] 22 p3532 N84-32364
SCHWARTZ, M. N.
A subsynoptic environment associated with two inter-mountain severe thunderstorm events
[DE83-014498] 03 p0412 N84-12694
SCHWARTZ, P. R.
NGC 2024: Far-infrared and radio molecular observations
[NASA-TM-85954] 16 p2575 N84-26524
The nature of AFGL 2591 and its associated molecular outflow: Infrared and millimeter-wave observations
[NASA-TM-85963] 16 p2575 N84-26526
W3 North: Far-infrared and radio molecular observations
[NASA-TM-85961] 17 p2774 N84-27615
SCHWARTZ, R.
Investigation, development, and evaluation of performance proving for fault-tolerant computers
[NASA-CR-166008] 15 p2385 N84-25307
STP: A mechanized logic for specification and verification
15 p2386 N84-25308
SCHWARTZ, R. A.
High resolution hard X-ray spectra of solar and cosmic sources
[NASA-CR-173561] 15 p2429 N84-25587
SCHWARTZ, R. J.
Two-dimensional computer simulation of EMVJ and grating solar cells under AMO illumination
19 p3044 N84-29313
SCHWARTZ, R. L.
Fault tolerant architectures for integrated aircraft electronics systems
[NASA-CR-172226] 01 p0119 N84-10769
An interval logic for higher-level temporal reasoning
[NASA-CR-172262] 07 p1053 N84-16821
Development and analysis of the Software Implemented Fault-Tolerance (SIFT) computer
[NASA-CR-172146] 09 p1371 N84-18953
Specifying and verifying ultra-reliability and fault-tolerance properties
15 p2386 N84-25309
Automatic construction of verification generators from Hoare logics
15 p2388 N84-25313
Fault tolerant architectures for integrated aircraft electronics systems, task 2
[NASA-CR-172282] 18 p2795 N84-27734
Distributed avionic computers
[AD-A142140] 19 p3073 N84-29494
SCHWARTZ, R. M.
Research in continuous speech recognition
[AD-A136990] 10 p1482 N84-19682
SCHWARTZ, R. W.
Physical integration of the HUD (Head-Up Display)
[AD-P003163] 17 p2589 N84-26594
SCHWARTZ, S. C.
The detection of signals in impulsive noise
[AD-A130393] 01 p0062 N84-10409
Suboptimal threshold detection in narrowband non-Gaussian noise
[AD-A129629] 01 p0071 N84-10464
Multi-sensor array time-delay estimation with small phase incoherences
[AD-A138867] 13 p2033 N84-23183
SCHWARTZ, S. H.
Review and assessment of USAF and US Army (HISS) artificial icing cloud studies
[AD-A135720] 09 p1349 N84-18814
SCHWARTZ, S. J.
Alfven solitons in the solar wind
03 p0467 N84-13075
SCHWARZ, G.
Development of a large area color display
[BMFT-FB-T-83-206] 10 p1499 N84-19601
SCHWARZ, H. D.
Damping ring rf system for SIC
[DE83-011853] 01 p0143 N84-10938
SCHWARZ, M.
Further development in electron beam lithography
[BMFT-FB-T-83-099] 02 p0216 N84-11415
SCHWARZ, R. B.
Amorphous zirconium-nickel films formed by solid state reactions
[DE84-003570] 07 p0976 N84-16326
Shock compaction of molybdenum powder
[NASA-CR-173154] 08 p1133 N84-17369
Shock consolidation of powders: Theory and experiment
[DE84-007273] 13 p1961 N84-22741
Mechanical properties of a shock consolidated steel powder
[DE84-003573] 20 p3158 N84-30056
SCHWARZE, G. E.
Lightweight, high-frequency transformers
01 p0011 N84-10066
Development of high frequency low weight power magnetics for aerospace power systems
[NASA-TM-83656] 13 p1986 N84-22892
SCHWARZMEIER, J. L.
Inappropriateness of the finite Larmor radius model for the tilting mode in field reversed configurations
[DE84-007467] 15 p2411 N84-25473
One-dimensional transport code for field-reversed configurations
[DE84-007449] 15 p2411 N84-25477
SCHWARZOTT, W. J.
Thermal design features of Rosat X-ray telescope
10 p1445 N84-19443
SCHWEDES, W.
Development of large area Multi-coloured Multifunctional Displays (MFA) in liquid crystal technology
[BMFT-FB-T-83-098] 02 p0300 N84-11970
SCHWEDT, G.
Analytical methods for determination of inorganic anions
[BLL-WH-592-(9091.9F)] 21 p3358 N84-31301
SCHWEHM, G.
The ISPM dust experiment 09 p1262 N84-18239
SCHWEIGART, H. E. L. G.
Small solute concentration differences determined by interferometry
[CSIR-CENG-424] 07 p0969 N84-16278
SCHWEIGERER, W.
Technical use of solar energy: Conversion from solar to thermal energy, solar cooling and thermal energy storage
[BMFT-FB-T-83-300] 15 p2362 N84-25173
SCHWEIGHARDT, F. K.
Study of the kinetics of hydrogenation using aged catalysis
[DE84-006588] 21 p3362 N84-31330
SCHWEIN, T. F.
Meteorological applications library (CRH.LB)
[PB84-122639] 06 p1193 N84-17776
Program ERROR
[PB84-128081] 09 p1370 N84-18946
Climatological Summary Programs F6 and CLIMAT
[PB84-185941] 20 p3246 N84-30603
SCHWEITZER, D. L.
Interactive surface visualization using raster graphics
[AD-A132548] 04 p0579 N84-13819
SCHWEITZER, G.
Analysis of parametrically excited large vibration systems
[AD-A143283] 22 p3611 N84-32879
SCHWENDNER, J.
Cost problems in international collaboration
[MBB-UA-671-82-OE] 05 p0780 N84-14988
SCHWENK, J.
General aviation pilot and aircraft activity survey
[PB84-154301] 14 p2100 N84-23602
General aviation activity and avionics survey
[AD-A139936] 15 p2254 N84-24536
SCHWENK, W.
Some aspects of the corrosion of iron in alkaline solutions and associated fundamental problems
[BLL-T6234/BG/LRS/LRST677/83]
12 p1795 N84-21707
SCHWENN, R.
The average solar wind in the inner heliosphere: Structures and slow variations 03 p0472 N84-13105
Associations between coronal mass ejections and interplanetary shocks 03 p0474 N84-13121
Interplanetary flow systems associated with cosmic ray modulation in 1977 - 1980
[NASA-TM-85120] 08 p1246 N84-18149
SCHWENZFEGER, K. J.
Seminar on Zeroing Methods and Applications, spring trimester, 1983 16 p2540 N84-26304
SCHWERING, F.
Urban millimeter wave propagation studies
[AD-A134485] 07 p0993 N84-16439

SCHWERING, F. K.
Tactical high frequency array antennas
[AD-D011095] 22 p3587 N84-32717
SCHWERZEL, R. E.
Three-dimensional photochemical machining with lasers
[AD-A143928] 23 p3754 N84-33798
Three-dimensional photochemical machining with lasers
[AD-A144096] 23 p3755 N84-33800
Three-dimensional photochemical machining with lasers
[AD-A144656] 24 p3909 N84-34760
SCHWERZMANN, M.
On differential sensitivity analysis of structural systems
[REPT-29.4.155/NT] 07 p1017 N84-16596
SCHWETTMAN, H. A.
RF properties of superconducting A-15 compounds
[AD-A139067] 13 p2047 N84-23285
SCHWIERING, D. A.
Decision theory: Individual biases and their effect on forecasting in an organization
[AD-A137943] 11 p1746 N84-21395
SCHWIMMER, W.
A microwave time transmission system
[ESA-TT-782] 16 p2482 N84-25916
SCHWIND, G. A.
Evaluation of single crystal LaB6 cathodes for use in a high frequency backward wave oscillator tube
[NASA-CR-173343] 10 p1485 N84-19709
SCHWIND, R. G.
Experimental mixed-convection heat transfer from a large, vertical surface in a horizontal flow
[DE83-016419] 03 p0373 N84-12429
Effects of blowing spanwise from the tips of low-aspect ratio wings of varying taper ratio, with application to improving STOL capability of fighter aircraft
[AD-A135688] 09 p1252 N84-18175
Experimental mixed convection heat transfer from a large, vertical surface in a horizontal flow
[HMT-36] 14 p2146 N84-23864
SCHWING, R. L.
Data base management of software development
[AD-P003486] 21 p3513 N84-32253
SCHWINGENSCHUH, K.
The magnetic field experiment for the Venus-Halley (VEGA) mission
[IWF-8301] 17 p2777 N84-27633
SCHWINKENDORF, W. E.
Design analysis of advanced photovoltaic technologies
[DE84-000008] 04 p0557 N84-13675
Optical analysis of Cassegrainian point focus concentrators 18 p2872 N84-28229
SCHWIRZKE, F.
Short-pulse laser and plasma surface interactions
[AD-A144536] 24 p3965 N84-35109
SCHWUTTKE, G. H.
Electrical and structural characterization of web dendrite crystals 18 p2939 N84-28643
Silicon crystal growing by oscillating crucible technique
[DE84-011038] 20 p3309 N84-31019
SCIALDONE, J. J.
Shuttle measured contaminant environment and modeling for payloads. Preliminary assessment of the space telescope environment in the shuttle bay
[NASA-TM-85111] 03 p0341 N84-12216
SCIBILIA, M. F.
The movement of water droplets in clouds around the nose of an atmospheric research aircraft
[NASA-TM-77358] 07 p1001 N84-16491
SCIRE, F. E.
Flexure hinge
[PB84-178557] 20 p3199 N84-30319
SCKOPKE, N.
ISEE observations of magnetopause reconnection: The energy balance 08 p1185 N84-17720
SCLOVE, S. L.
On segmentation of digital images using spatial and contextual information via a 2-dimensional Markov model
[AD-A137942] 11 p1715 N84-21186
SCOFIELD, B.
Uninstalled aero engine testing in operation in the Royal Air Force 16 p2453 N84-25731
SCOGGINS, J. R.
The influence of convective activity on the vorticity budget
[NASA-CR-3752] 04 p0567 N84-13736
VAS sounding data evaluation
24 p3933 N84-34893
SCOGGINS, W. R.
Getting into CAD at the Savannah River Plant
[DE84-011581] 21 p3466 N84-31977
SCONTRINO, M. P.
Physical performance tests as predictors of task performance 18 p2905 N84-28424
[AD-P003257]
SCOPELIANOS, A. G.
Carboranylmethylene-substituted phosphazenes and polymers thereof
[NASA-CASE-ARC-11370-1] 13 p1962 N84-22750
SCOPP, R. I.
Operator alertness/workload assessment using stochastic model-based analysis of myoelectric signals
[AD-A144535] 24 p3937 N84-34921
SCOTT-FLEMING, I. C.
Recovery of spectral optical depth and zero-airmass solar spectral irradiance under conditions of temporally varying optical depth 23 p3775 N84-33930
SCOTT-MONCK, J.
The NASA welding assessment program
19 p3048 N84-29339
SCOTT, A. J.
Development of an engineering-scale nuclear test of a solid-breeder fusion-blanket concept
[DE83-016861] 01 p0151 N84-10992
SCOTT, B.
The effects of a spatial information format on decision making performance in a C3 (Command, Control, and Communications) probabilistic information integration task
[AD-P002887] 13 p1979 N84-22848
SCOTT, C. D.
A review of nonequilibrium effects and surface catalysis on shuttle heating 01 p0024 N84-10154
SCOTT, D. D.
Development of a high-pressure quasi-isentropic plane wave generating capability
[DE84-011619] 20 p3203 N84-30348
SCOTT, D. H.
Mars apleostratigraphy 13 p2090 N84-23536
Valles Marineris layered deposits: Implications of origin 13 p2090 N84-23537
SCOTT, D. M.
Comparison of thermal, line-source electron beam and CW laser annealing for the fabrication of ErSi/sub 2 Schottky barrier on Si
[DE84-003105] 07 p1081 N84-17031
SCOTT, D. R.
Electrical self-aligning connector
[NASA-CASE-MFS-25211-2] 05 p0673 N84-14423
Laboratory evaluation of tunable atomic line molecular spectrometers for benzene analysis
[PB84-177765] 17 p2672 N84-27032
SCOTT, D. W.
Multivariate density estimation and remote sensing
03 p0393 N84-12560
SCOTT, E. R. D.
Primitive meteorites: Where do they come from and how do they form? 11 p1755 N84-21458
SCOTT, G. W.
Wind turbine generator interaction with conventional diesel generators on Block Island, Rhode Island. Volume 1: Executive summary
[NASA-CR-168318] 19 p3050 N84-29357
Wind turbine generator interaction with conventional diesel generators on Block Island, Rhode Island. Volume 2: Data analysis
[NASA-CR-168319] 21 p3433 N84-31783
SCOTT, J. S.
RIMSTAR: Rapid image scanning technology and archiving 18 p2843 N84-28055
Studies of X-ray clusters of galaxies/intergalactic plasmas
[NASA-CR-173825] 20 p3319 N84-31068
SCOTT, K. J.
The effect of surface charge on the rheology of concentrated aqueous quartz suspensions
[CSIR-CENG-423] 04 p0493 N84-13235
SCOTT, K. T.
Coatings for fuel economy or materials substitution
23 p3704 N84-33477
SCOTT, L. R.
Norm estimates for a maximal right inverse of the divergence operator in spaces of piecewise polynomials
[AD-A136889] 10 p1573 N84-20309
Numerical schemes for a model for nonlinear dispersive waves
[NASA-CR-175416] 11 p1714 N84-21179
Conforming finite element methods for incompressible and nearly incompressible continua
[AD-A141117] 19 p3023 N84-29171
SCOTT, P.
The design and production of a procedure training aid using the procedure learning format and the computer automated page layout (PLA) routine
[AD-A139988] 15 p2383 N84-25292
SCOTT, P. M.
Fatigue crack growth in austenitic stainless steel
[ND-R-802(S)] 18 p2813 N84-27856
SCOTT, R. A.
Strength of bolted joints in laminated composites
[AD-A141826] 19 p2986 N84-28921
SCOTT, R. L., JR.
Atomic-oxygen stimulated outgassing (A0034)
15 p2271 N84-24835
SCOTT, R. W.
Summary of the VIN field program: Summer 1979
[AD-A130836] 01 p0108 N84-10704
Studies of statistical techniques to evaluate weather modification. Volume 1: Reports of OSET
[PB84-182906] 20 p3248 N84-30620
SCOTT, S. J.
Operational modules for space station construction
[NASA-TM-85772] 12 p1779 N84-21608
SCOTT, W. S.
TIS: An intelligent gateway computer for information and modeling networks. Overview
[DE83-017986] 04 p0616 N84-14067
SCRIBNER, K. J.
High performance Extrusion Cast Explosives (ECX)
[DE84-008244] 20 p3166 N84-30107
SCUDDER, D. W.
Initiation and accretion experiment on the HDZP
[DE84-009997] 18 p2933 N84-28601
High density Z pinch as a small low-energy fusion device
[DE84-009992] 21 p3502 N84-32198
SCUDDER, J. D.
Scale lengths in quasi-parallel shocks
[NASA-TM-85109] 03 p0407 N84-12663
The collapse of the local, Spitzer-Haerm formulation and a global-local generalization for heat flow in an inhomogeneous, fully ionized plasma
03 p0468 N84-13080
Detection of bump-on-tail reduced electron velocity distributions at the electron foreshock boundary
[NASA-TM-86067] 12 p1922 N84-22518
SCULLIN, V. J.
GCKP84-general chemical kinetics code for gas-phase flow and batch processes including heat transfer effects
[NASA-TP-2320] 22 p3546 N84-32446
SCULLY-POWER, P. D.
Sound propagation through a moderate coastal upwelling: Comparison of modeling prediction with experimental data
[AD-A133782] 05 p0742 N84-14876
SCULLY, J.
The 3SPACE digitizer: A new input device for solid geometry modeling 12 p1872 N84-22200
SCULLY, J. R.
Bimetal and multimetal galvanic corrosion prediction using long- and short-term polarization curves
[AD-A139893] 15 p2297 N84-24786
SCULLY, K. R.
Robotics: An introduction to today's robot and future trends
[AD-A132070] 03 p0423 N84-12768
SCURRY, T., JR.
Smarter radiation monitors for safeguards and security
[DE83-015259] 02 p0224 N84-11468
SDOUZ, G.
Physical models and numerical methods of the reactor dynamic computer program RETRAN
[OEFZS-4272] 18 p2931 N84-28587
SEAB, C. G.
Ultraviolet extinction properties of grains in the interstellar medium 03 p0476 N84-13131
Grain destruction in interstellar shocks
16 p2569 N84-26487
Grain destruction in interstellar shocks
18 p2947 N84-28685
SEABRIDGE, A. G.
Integrated powerplant control systems and potential performance benefits 03 p0316 N84-12063
SEAGER, C. H.
Hole trapping, recombination, and space charge in irradiated Sandia oxides
[DE83-015212] 03 p0454 N84-12986
Observations of damage and transport of hydrogen in ion bombarded polycrystalline silicon
[DE84-008035] 14 p2243 N84-24466
SEAGRAVES, P. H.
2nd Joint Solar Dynamics Project data summary: Solar magnetic field, chromospheric and coronal observations near the time of the 11 June 1983 solar eclipse
[NASA-CR-173340] 09 p1417 N84-19272
White light solar corona: An atlas of 1983 K-coronameter synoptic charts
[PB84-184159] 20 p3320 N84-31075

SEALE, J. B.
Matching wind turbine rotors and loads: Computational methods for designers
[DE84-006921] 12 p1843 N84-22019
SEALEY, J. D.
Testing of sealed lead-acid batteries
[DE84-008209] 14 p2141 N84-23840
SEALS, J.
Development of an EM-based lifeform monitor
[AD-A140583] 17 p2745 N84-27430
SEAMAN, L.
Evaluation of WES one-dimensional dynamic soil testing procedures
[AD-A130925] 01 p0057 N84-10371
Computer simulation of two-dimensional impact tests on propellant
[DE84-002460] 07 p0981 N84-16356
SEAMAN, R. L.
Radiofrequency radiation effects on excitable tissues
[AD-A137772] 11 p1695 N84-21056
SEAMEN, J. F.
Ultraviolet laser triggering of the 6 MV PBFA-2 gas switch
[DE84-014004] 23 p3755 N84-33802
SEAMSTER, A. G.
Cross sections relevant to gamma-ray astronomy: Alpha-particle-induced reactions
[DE83-015533] 03 p0461 N84-13038
SEARCY, A. W.
Research activities in materials and molecular research
[DE83-015005] 03 p0347 N84-12255
SEARCY, J. Q.
Compatibility and accelerated aging study for Li(Si)/FeS/sub 2 thermally activated batteries
[DE84-006099] 12 p1813 N84-21818
SEARLE, R. C.
King's Trough Flank: Geological and geophysical investigations of its suitability for high-level radioactive waste disposal
[IOS-166] 20 p3299 N84-30950
SEARLE, W. B.
X-ray fluorescence analysis for barium, zinc, calcium and phosphorus in oil additives
[MRL-TN-475] 05 p0646 N84-14249
X-ray fluorescence determination of sulphur in oils by a thin film method
[MRL-TN-474] 05 p0646 N84-14250
SEARLS, C. A.
Seismic investigation of the Multi-Well Experiment site
[DE84-000943] 04 p0555 N84-13655
SEARS, M. P.
PLT: A multipurpose plotting package
[DE83-018261] 03 p0419 N84-12735
User's guide to Sandia TEX
[DE83-016763] 04 p0582 N84-13840
SEARS, R. G.
Pulsed power for racetrack induction accelerators
[AD-A143289] 22 p3653 N84-33157
SEASHOLTZ, R. G.
Application of laser anemometry in turbine engine research
[NASA-TM-83513] 02 p0222 N84-11456
Optimization of fringe-type laser anemometers for turbine engine component testing
[NASA-TM-83658] 15 p2335 N84-25019
Three component velocity measurements using Fabry-Perot interferometer
[NASA-TM-83692] 16 p2495 N84-26010
SEAY, T. S.
Close approaches between satellites in circular orbits
[AD-A133779] 05 p0642 N84-14224
SEBACHER, D. I.
Airborne measurements of launch vehicle effluent of STS-2 launch on November 12, 1981 at Cape Canaveral, Florida
[NASA-TP-2260] 09 p1342 N84-18764
SEBALD, A. V.
Empirical validation of computer models for passive-solar residences
[DE83-016887] 03 p0457 N84-13005
SEBBOWA, F. B.
An investigation of the interaction between multiple dilution jets and combustion products
15 p2292 N84-24758
SEBO, S. A.
Selected aspects of radio interference from HVDC (High Voltage Direct Current) converter stations
[PB83-219675] 01 p0075 N84-10494
SEBRING, D. L.
Design and development of the multifunction flight control reference system 03 p0316 N84-12065
Application of multifunction strapdown inertial system
16 p2447 N84-25698
SECAN, J. A.
Improvement of the scintillation-irregularity model in WBMOD
[AD-A131536] 02 p0249 N84-11632
SECHRIST, C. F., JR.
Design and implementation of a preprocessing system for a sodium lidar
[NASA-CR-174595] 03 p0378 N84-12462
SECORD, N. W.
WECS - load controlled pitch - variable load conversion to heat
[DE84-005328] 11 p1674 N84-20922
SECRIST, G. E.
Organizational-climate dimensions: A conceptual and judgmental analysis
[AD-A132898] 06 p0934 N84-16068
A set of organizational-climate measures: Internal consistency, factor structure, and predictive power
[AD-A135352] 09 p1398 N84-19132
SECUNDE, R. R.
Electric vehicle propulsion alternatives
[NASA-TM-83504] 10 p1529 N84-20017
SEDBERRY, F. C.
Water resources data for Alabama, water year 1982
[PB84-183250] 20 p3229 N84-30523
SEDIVEC, D. F.
A wide band 44 GHz printed circuit conformal array
[AD-P003404] 19 p3014 N84-29108
SEDMAK, G.
The PDS-VAX intelligent plate scanning system of Trieste Astronomical Observatory
18 p2841 N84-28035
SEDNEY, R.
Oscillations of a liquid in a rotating cylinder. Part 2: Spin-up
[AD-A129094] 01 p0077 N84-10505
Treatment of the discontinuity in the spin-up problem with impulsive start
[AD-A133682] 16 p2485 N84-25940
SEDOV, A. V.
Physical training of cosmonauts for intercosmos program missions 23 p3805 N84-34129
SEDOVA, F. I.
Physical nature of geomagnetic microbays
17 p2706 N84-27232
SEDUNOV, Y.
Measures to improve anti-hail service
11 p1669 N84-20892
SEE, R. M.
Assessing contracting workforce requirements in the matrixed organization
[AD-P002760] 13 p2052 N84-23307
SEED, T. M.
Ultrastructural effects of radiation on cells and tissues: Concluding remarks
[DE84-003454] 10 p1545 N84-20131
SEEGEL, V.
Properties of carbon fibers with various coatings
[NASA-TM-77027] 10 p1464 N84-19563
SEEGER, C. L.
SETI science working group report
[NASA-TP-2244] 12 p1869 N84-22178
SEEGER, H.
Determination of a geoid profile across the Alps using Doppler measurements of the US Navy Navigation Satellite System (NNSS) 02 p0234 N84-11534
The observation of artificial satellites and VLBI
10 p1519 N84-19946
SEEGER, T.
Comparison of fatigue life prediction based on local strains and nominal stresses respectively
[LBF-FB-169(183)] 10 p1518 N84-19937
SEEGMILLER, H. L.
An experimental documentation of trailing-edge flows at high Reynolds number
[NASA-TM-84375] 01 p0076 N84-10498
SEEHUSEN, H. J.
Ordered address binary trees: A technique for the optimization of access to trees on disk
[INPE-2916-PRE/428] 13 p2026 N84-23133
SEELEY, J. S.
Exposure to space radiation of high-performance infrared multilayer filters and materials technology experiments (A0056) 15 p2277 N84-24678
SEELEY, M.
Changes in TM response of soil scenes due to tillage, residue, and weathering 23 p3766 N84-33874
SEELEY, R. M.
Search command for character strings and words in computer files on CMS (Conversational Monitor System)
[PB84-201243] 22 p3639 N84-33068
SEELHORST, C.
Study of Attitude Control and Guidance System (ACGS) for orbit change stage
[ESA-CR(P)-1797] 08 p1120 N84-17285
SEELY, G. R.
Particulate models of photosynthesis
[DE84-003947] 12 p1863 N84-22142
SEEMAN, G.
Design of a remotely controlled hovercraft vehicle for spill reconnaissance
[PB84-124064] 08 p1105 N84-17187
SEEMAN, J. T.
Acceleration of high charge density electron beams in the SLAC linac
[DE84-012415] 21 p3497 N84-32161
SEEMANN, D.
Technical use of solar energy: Conversion from solar to thermal energy, solar cooling and thermal energy storage
[BMFT-FB-T-83-300] 15 p2362 N84-25173
SEEMANN, M. R.
Error in CALSPAN 3-dimensional crash vehicle simulation computer program for the case of massless segments
[AD-A141783] 19 p3078 N84-29528
SEEMANN, R. J.
Application of flight controls technology to engine control systems 03 p0315 N84-12061
SEERING, W. P.
A designer's perception of computer-aided design
15 p2312 N84-24871
SEESING, P. R.
Data dictionary model for relational databases
[DE84-002584] 05 p0759 N84-14981
SEETHALAKSHMI, M.
Performance analysis of loosely coupled computer systems 05 p0731 N84-14801
SEETHARAM, H. C.
Experimental studies of flow separation of three airfoils at low speeds
[NASA-CR-3530] 19 p2956 N84-28736
SEEVERS, P. M.
Study of Thematic Mapper and Multispectral Scanner data applications 20 p3215 N84-30421
SEGAL, G. I.
Chain reaction mechanism for I2 dissociation in the O2 (1 delta)-I atom laser
[AD-A134370] 07 p1010 N84-16548
SEGAL, I. E.
Self and cross tests of astronomical hypothesis and optimal cutoff bias-free nonparametric estimation
09 p1412 N84-19234
SEGALL, R. N.
Effects of Nacelle configuration/position on performance of subsonic transport
[NASA-CR-3743] 02 p0174 N84-11144
SEGALL, S. B.
A low loss quasioptical cavity for a two-stage Free Electron Laser (FEL)
[AD-A133321] 06 p0850 N84-15541
Limiting energy spread at high laser intensities using phase space displacement
[AD-A133322] 06 p0850 N84-15542
Two-stage FEL (Free Electron Laser) program
[AD-A133508] 06 p0850 N84-15546
SEGALL, Z.
Software voting in asynchronous NMR (N-Modular Redundancy) computer structures
[NASA-CR-174488] 03 p0418 N84-12732
Workshop on Multiprocessors for High Performance Parallel Computation
[PB84-152677] 14 p2204 N84-24229
SEGALYN, P. L.
Trapped-proton energy spectrum determination (M0002-1) 15 p2276 N84-24663
SEGAN, E. G.
Preliminary investigation of ceramic-coated anodes for cathodic protection
[AD-A133440] 06 p0810 N84-15273
Development of concepts for corrosion assessment and evaluation of underground pipelines
[AD-A140633] 17 p2623 N84-26788
SEGERFELDT, J.
Sweden: Optical fiber carries laser power for welding
22 p3651 N84-33144
SEGINER, A.
Augmentation of fighter-aircraft performance by spanwise blowing over the wing leading edge
03 p0326 N84-12133
SEGMUELLER, A.
Automated microdensitometer for digitizing astronomical plates 18 p2841 N84-28039
SEGUR, H.
Toward a new kinetic theory for resonant triads
[AD-A137096] 10 p1571 N84-20297
Research in nonlinear motion
[AD-A143000] 21 p3473 N84-32013

SEHANOBISH, K.
Crack propagation in polystyrene under fixed elongation
[AD-A134749] 08 p1138 N84-17399
SEHITOGLU, H.
Characterization of thermo-mechanical fatigue
21 p3418 N84-31673
SEIBARA, M.
Dynamic property studies of Sterling engines
[NASA-TM-77719] 19 p3031 N84-29225
SEIBEL-ROSS, E. I.
The effects of hyperbaric elemental gases on the rate coefficient of K(+) influx in mammalian synaptosomes
04 p0570 N84-13754
SEIBERT, D. L. R.
Yields photosynthetic efficiencies, and proximate chemical composition of dense cultures of marine microalgae, a subcontract report
[DE83-011992] 04 p0570 N84-13757
SEIBOLD, R. W.
Advanced strain-isolation-pad material with bonded fibrous construction
[NASA-CR-166599] 23 p3723 N84-33592
SEIDEL, A.
Design and test of a cryogenic phase separator for zero-g environment
10 p1442 N84-19418
SEIDEL, B. L.
DSN microwave antenna holography
10 p1474 N84-19624
SEIDEL, D. A.
Calculation of unsteady aerodynamics for four AGARD standard aeroelastic configurations
[NASA-TM-85817] 19 p2958 N84-28747
Subsonic and transonic unsteady- and steady-pressure measurements on a rectangular supercritical wing oscillated in pitch
[NASA-TM-85765] 22 p3530 N84-32348
Experience with transonic unsteady aerodynamic calculations
[NASA-TM-86278] 22 p3530 N84-32353
SEIDEL, D. B.
Applied-B ion diode experiments on PBFA 1
[DE83-017792] 03 p0447 N84-12942
Linear stability of general magnetically insulated electron flow
[DE84-010148] 19 p3018 N84-29138
SEIDEL, H.
Technology of thin silicon foils in respect to the fabrication of monolithic integrated sensors
[BMFT-FB-T-83-089] 02 p0206 N84-11347
SEIDEL, K.
Structural description of a LANDSAT Thematic Mapper (TM) scene for improved region-based classification
23 p3766 N84-33873
SEIDEL, S.
Can we delay a greenhouse warming
[DE84-900198] 07 p1027 N84-16658
SEIDEL, W.
Aircraft tests in the clearance program for the use of a combat aircraft from a runway after damage repair
24 p3848 N84-34404
SEIDELMANN, P. K.
Observations of faint planetary satellites with a charge-coupled device
19 p3120 N84-29832
SEIDEN, E.
Turbulent swirling combustion
11 p1609 N84-20535
SEIDENSTICKER, R. G.
Control of thermal stress in dendritic web growth
18 p2938 N84-28636
Large-area sheet task advanced dendritic web growth development
[NASA-CR-173958] 23 p3787 N84-34019
SEIDERS, R. P.
Diffusion measurements in microemulsions
[AD-A133801] 05 p0648 N84-14265
SEIFERT, B.
Technical use of solar energy: Conversion from solar to thermal energy, solar cooling and thermal energy storage
[BMFT-FB-T-83-300] 15 p2362 N84-25173
SEIFERT, H.
Software concept for an interactive graphics system for large scale topographic cartography
07 p1019 N84-16614
SEIFERT, R.
New flight deck design in the light of the operational capabilities
06 p0778 N84-15097
SEIFORD, L.
Pareto-optimality, efficiency analysis and empirical production functions
[AD-A141768] 19 p3088 N84-29601
SEIGE, P.
Modular Optoelectronic Multispectral Scanner (MOMS)-01 on STS-7 and STS-11: Missions and results
23 p3765 N84-33862
The information network for a real-time controlled data acquisition of the Modular Optoelectronic Multispectral Scanner (MOMS)
23 p3765 N84-33863
SEIGEL, B.
Evaluation of propellant tank insulation concepts for low-thrust chemical propulsion systems
[NASA-CR-168320] 11 p1625 N84-20634
SEIGNEURIC, A.
The exercise electrocardiogram
11 p1699 N84-21085
Continuous ECG monitoring by the Holter method
11 p1700 N84-21086
The Holter method in aeronautical medicine
11 p1700 N84-21087
SEILER, D. G.
Investigation of nonlinear optical properties of semiconductors
[AD-A139227] 14 p2242 N84-24459
SEILER, F.
Shock structure near a wall in pure inert gas and in binary inert gas mixtures
07 p1005 N84-16517
SEILER, J. F.
Performance criteria for restoration coatings for porcelain enamel surfaces
[PB84-141787] 11 p1638 N84-20709
SEILER, J. M.
Studies on sodium boiling phenomena in out of pile rod bundles for various accidental situations in Liquid Metal Fast Breeder Reactors (LMFBR) experiments and interpretations
06 p0842 N84-15493
SEIN, E.
Optical data links for the STAR mission
24 p3905 N84-34730
SEITCHEK, G. D.
Aircraft generation equipment emissions estimator (AGEEE)
[AD-A136829] 10 p1532 N84-20031
Technology transfer of the air quality assessment model
[AD-A139582] 14 p2173 N84-24018
SEITTER, K. L.
Numerical simulation of thunderstorm gust fronts
[AD-A141214] 18 p2889 N84-28339
SEITZ, C.
Workshop on Multiprocessors for High Performance Parallel Computation
[PB84-152677] 14 p2204 N84-24229
SEITZ, C. L.
Submicron systems architecture
[AD-A139819] 15 p2270 N84-24630
SEITZ, N. B.
Americal National Standard X3.102 user reference manual
[PB84-155571] 17 p2654 N84-26977
SEITZER, P. O.
Tidal effects and globular clusters
16 p2578 N84-26542
SEIZINGER, D. E.
Vehicle-emission characteristics using mechanically emulsified alcohol/diesel fuels
[DE83-016012] 03 p0406 N84-12656
SEKA, W.
Short-pulse short-wavelength optical probe for laser plasma
[DE84-006336] 14 p2230 N84-24375
Observation of scattered light between Omega-2 and 3/2-Omega in short wavelength laser produced plasmas
[DE84-012533] 20 p3306 N84-31001
How useful are odd-integer half-harmonics
[DE84-012392] 21 p3501 N84-32190
SEKAR, R.
Positive displacement compounding of a heavy duty diesel engine
[NASA-CR-168286] 21 p3413 N84-31641
SEKER, S.
UHF radiowave propagation through forests
[AD-A130399] 01 p0062 N84-10408
SEKERKA, R. F.
The effect of solidification rate on morphological stability
18 p2936 N84-28620
SEKHON, R. S.
Relative accuracy assessment of LANDSAT-4 MSS and TM data for level 1 land cover inventory
20 p3217 N84-30432
SEKI, H.
Raman and infrared spectroscopy of molecules adsorbed on metal electrodes
[AD-A143466] 22 p3547 N84-32454
SEKI, K.
Effect of outer race misalignment on the high speed performance of ball bearings
[NAL-TR-786] 16 p2498 N84-26028
SEKIYA, R.
Transmitting two-level balanced code within the bandwidth of straight binary code-transmission
13 p2039 N84-23231
SELBACH, H. J.
Research on oxidation by air and tempering of Raney nickel electrocatalysts for the H2 anodes of alkali combustion materials cells
[NASA-TM-77414] 23 p3713 N84-33535
SELBERHERR, S.
Implications of analytical investigations about the semiconductor equations on device modeling programs
[AD-A130549] 01 p0130 N84-10851
SELBY, J. M.
Evaluation of a draft standard on performance specifications for health physics instrumentation
[DE83-016169] 02 p0266 N84-11749
Evaluation of a draft standard on performance specifications for health physics instrumentation
[DE83-016186] 02 p0266 N84-11750
A guide for disposition of radioactive material sources
[DOE/EP-0088] 23 p3824 N84-34251
SELCOW, E. C.
Safety and deterministic failure analyses in high-beta D-D Tokamak reactors
[DE84-012693] 21 p3500 N84-32185
SELCUK, M. K.
Solar thermal system engineering guidebook
[NASA-CR-173432] 15 p2361 N84-25165
Solar concentrator protective system
[NASA-CASE-NPO-15662-1] 18 p2867 N84-28204
A nomographic methodology for use in performance trade-off studies of parabolic dish solar power modules
[NASA-CR-173908] 22 p3617 N84-32918
SELCUK, N.
Evaluation of multi-dimensional flux models for radiative transfer in combustion chambers: A review
15 p2293 N84-24760
SELEGAN, D.
KC-135 winglet program overview
18 p2787 N84-27687
SELF, H. C.
Estimating detection range and range loss looking through windshields and Head-Up Displays
[AD-P003161] 17 p2588 N84-26592
SELF, S. A.
High magnetic field MHD generator program
[DE84-007690] 15 p2411 N84-25474
Fundamental processes in partially ionized plasmas
[AD-A140549] 16 p2558 N84-26414
SELIA, R. L.
Atmospheric volatile hydrocarbon composition at five remote sites in Northwestern North Carolina
[PB84-177930] 17 p2620 N84-26768
SELIG, H.
Syntheses and characterization of novel graphite intercalation compounds with inorganic fluorides
[AD-A140801] 17 p2619 N84-26762
SELIGSON, D.
Phonon-induced enhancements of the energy gap and critical current in superconducting aluminum
[DE83-015210] 03 p0455 N84-12996
SELIM, F. A.
Double-injection, deep-impurity switch development
[NASA-CR-168335] 09 p1306 N84-18536
SELINCE, G.
A new concept for guiding missiles with an application to the ground-air system
21 p3350 N84-31253
SELKOWITZ, S.
Daylight availability as a function of atmospheric conditions
[DE84-007973] 20 p3247 N84-30609
SELKOWITZ, S. E.
Advanced optical and thermal technologies for aperture control
16 p2517 N84-26156
SELLE, J. E.
Computerized version of the summary of binary phase diagrams
[DE84-009405] 15 p2299 N84-24800
SELLECK, C. B.
PLT: A multipurpose plotting package
[DE83-018261] 03 p0419 N84-12735
GRAPH 2: A digitizing and graph plotting program
[DE84-010747] 20 p3282 N84-30834
SELLERS, D.
OTS (Office of Toxic Substances) Information Architecture Notebook
[PB84-188655] 21 p3520 N84-32301
SELLGREN, K.
Near infrared studies of reflection nebulae
06 p0937 N84-16086
Near infrared observations of the visual reflection nebulae NGC 7023, NGC 2023 and NGC 2068
16 p2570 N84-26497
The near infrared polarization of NGC 7023
16 p2572 N84-26508
Near infrared observations of the visual reflection nebulae NGC 1023, NGC 2023, and NGC 2068
18 p2948 N84-28695

The near infrared polarization of NGC 7023
18 p2950 N84-28707

SELLIN, I. A.
Differential charge transfer and continuum electron capture studies for ions in atomic hydrogen
[DE84-009675] 19 p3102 N84-29708

SELLKE, T.
On the fitting of Pearson curves to sums of independent random variables
[AD-A133153] 06 p0900 N84-15844

SELLSCHOP, J. P. F.
Surface and near-surface analysis of diamond by RBS
06 p0814 N84-15302

SELMAN, J. R.
Electrochemistry of carbides and carbon cathodes in molten halides
[DE84-007966] 15 p2287 N84-24725

SELOVE, W.
Calorimetry at L = 10/sup 33
06 p0913 N84-15931

SELPH, C. C.
AFRPL solar-thermal rocket activities
20 p3140 N84-29938

SELTZER, D. S.
Feedback in robotics for assembly and manufacturing
[PB84-177112] 17 p2675 N84-27044

SELTZER, S. M.
A beam current density monitor for intense electron beams
[AD-A137146] 11 p1660 N84-20832

SELVELLI, P. L.
An IUE study of Be stars with Fe 2 emissions in the visible
24 p3976 N84-35186

SELYUKOVA, G.
Polyurethane aircraft coatings for fuel savings
02 p0167 N84-11096

SEMAZZI, F. H. M.
Investigation of the equatorial orographic-dynamic mechanism applying the bounded derivative method
12 p1854 N84-22078

SEMBA, K.
Influence of deflocculant on the isoelectric point of refractory powders: Considerations on the action of deflocculant
[NASA-TM-77364] 07 p0969 N84-16277

SEMENETS, T. I.
Optical hysteresis and bistability in the wave-front conjugation by electrooptic crystals
14 p2234 N84-24406

SEMENIUK, A.
Distribution and properties of small volcanoes in Acidalia Planitia
13 p2080 N84-23478

SEMENOV, B. K.
Detection of latent atherosclerotic stenosing lesions to great vessels of the head in flight personnel
07 p1046 N84-16787

SEMENOV, O. G.
Micropinch phenomenon in dense Z-pinch
10 p1583 N84-20378

SEMENOV, V. G.
Study of superfine interactions in amorphous chromium-containing alloys by Mossbauer spectroscopy
24 p3877 N84-34565

SEMENOVA, N. M.
Electron microscope study of processes of polygonization and recrystallization in alpha-phase of two-phase (alpha + beta)-titanium alloys with plate structure
23 p3708 N84-33507

SEMERCAN, A. A.
A diffusion mechanism in the catalytic conversion of carbonaceous materials into diamonds at high pressures
[CSIR-TRANS-1743] 22 p3557 N84-32526

SEMIATIN, S. L.
Feasibility of using a large press (80,000 - 200,000 tons) for manufacturing future components on Army systems
[AD-A132398] 04 p0544 N84-13582

SEMMEL, M. L.
Dielectric cure monitoring: Preliminary studies
[NASA-TM-86452] 21 p3369 N84-31378

SEMMENS, M. J.
Optimizing coagulation-adsorption for haloform and TOC (Total Organic Carbon) reduction
[PB83-210757] 01 p0058 N84-10378

SEN, A.
Visiting spacemen
[NASA-TM-77294] 07 p0960 N84-16226
Organometallic chemistry of weakly solvated transition metal cations
[DE84-006987] 13 p1958 N84-22726
On system diagnosis with multivalued test outcomes
[AD-P002375] 14 p2195 N84-24166
The effect of plasticizer on the polarizer of Poly(vinylidene fluoride) films
[AD-A140770] 17 p2626 N84-26806

SENA, J. T.
Heat pipe technology development for high temperature space radiator applications
[DE84-012444] 21 p3402 N84-31581

SENATORE, G.
Ground-state properties and optical excitations of a solvated electron in molten alkali halides
[DE84-701191] 24 p3881 N84-34587

SENDECKYJ, G. P.
NDE techniques for composite laminates
01 p0033 N84-10205

SENG, G. T.
Research on aviation fuel instability
14 p2108 N84-23642
Group-type hydrocarbon standards for high-performance liquid chromatographic analysis of middistillate fuels
[NASA-TP-2317] 14 p2131 N84-23774
Research on aviation fuel instability
15 p2289 N84-24734
FTIR analysis of aviation fuel deposits
[NASA-TM-83773] 23 p3726 N84-33608

SENGUPTA, D. L.
Television interference measurements near the MOD-2 WT array at Goodnoe Hills, Washington
[DE84-000030] 10 p1482 N84-19688

SENIOR, T. B. A.
Television interference measurements near the MOD-2 WT array at Goodnoe Hills, Washington
[DE84-000030] 10 p1482 N84-19688

SENITZKY, I. R.
Coherently pumped two-frequency laser-type devices
[AD-A133439] 06 p0850 N84-15545

SENKO, A. A.
Two-phase methods of solving canonical problem of linear programming
21 p3484 N84-32078

SENNA, J. R. S.
The 2-D impurity states associated with inversion layers
[INPE-3081-PRE/493] 16 p2559 N84-26417

SENNE, E. L. F.
FORTH: An unconventional programming language
[INPE-2894-PRE/413] 04 p0578 N84-13813
Is artificial intelligence possible?
[INPE-3007-PRE/453] 17 p2757 N84-27499
PASCAL-MP: A language for the algebraic and numerical manipulation of polynomials
[INPE-3057-PRE/477] 23 p3814 N84-34183

SENNEWALD, P. F.
Study of the FAA (Federal Aviation Administration) program to modernize maintenance operations
[AD-A142295] 20 p3125 N84-29848

SENNOTT, J. W.
Navigation system and method
[NASA-CASE-GSC-12508-1] 13 p1929 N84-22546

SENS, J. C.
Linearity and resolution of photodiodes
[DE84-002761] 07 p0998 N84-16470

SENSKE, W.
Crystalline photoconductive films for electrophotographic recording
[BMFT-FB-T-84-099] 21 p3408 N84-31614

SENTMAN, L. H.
Nonlinear interactions between the pumping kinetics, fluid dynamics and optical resonator of CW fluid flow lasers
[AD-A139189] 14 p2150 N84-23882

SENTURIA, S. D.
A dielectric study of the Time-Temperature-Transformation (TTT) diagram of DGEBA epoxy resins cured with DDS (Diaminodiphenylsulfone)
[AD-A137358] 10 p1466 N84-19573
Electrical monitoring of polymerization reactions with the charge-flow transistor
[AD-A142267] 19 p3000 N84-29010
The role of boundary layer capacitance at blocking electrodes in the interpretation of dielectric cure data in adhesives
[AD-A142188] 19 p3016 N84-29121

SENYUTA, V.
Innovations for improving performance, aerodynamic properties of aircraft
02 p0167 N84-11097

SENZANI, G.
CONSTRUCT: A tool for programming in the large
05 p0722 N84-14733

SEPANIAK, M. J.
Developments in open tubular liquid chromatography
[DE84-010585] 18 p2812 N84-27853
Capillary separations with calorimetric absorbance detection
[DE84-012466] 20 p3195 N84-30291

SEPEHRNOORI, K.
Analysis of Sweet Lake geopressured-geothermal aquifer
[DE84-006053] 12 p1836 N84-21972

SEPP, G.
Laser range finding technology for space to space applications. Volume 1: Laser diode range finder functional model
[MBB-UR-608-83-O-VOL-1] 09 p1324 N84-18648
Continuous wave (CW) diode laser instrumentation for rendezvous and docking maneuvers in geosynchronous orbits
24 p3908 N84-34752

SEPPALA, L. G.
Three wavelength optical alignment of the Nova laser
[DE84-009702] 18 p2847 N84-28079

SEQUIN, C.
Design and performance of a distributed relational data base system
[AD-A142177] 19 p3073 N84-29495

SERAFIMOV, K.
Research continues with Intercosmos-Bolgariya-1300 satellite
12 p1775 N84-21577

SERAFIN, R. J.
Applications of airborne remote sensing in atmospheric sciences research
17 p2715 N84-27286

SERBETO, A. D. P. B.
Nonlinear theory of the free-electron laser
[INPE-3193-PRE/557] 21 p3409 N84-31618

SERBIN, C. A.
PCMSOL-1: A computer simulation code for a direct gain passive solar structure. Part 2: PCMSOL-1 users guide
[ORNL/CSD-127/P-2] 23 p3790 N84-34040

SERCEL, J. C.
Thrust level requirements for space station on-orbit propulsion
20 p3140 N84-29935

SERELLI, C.
CONSTRUCT: A tool for programming in the large
05 p0722 N84-14733

SERFATY, D.
Human decisionmaking in dynamic environments with increasing information processing demands
[AD-P002884] 13 p1979 N84-22845

SERGEYENKO, O. S.
Well-developed convective cloud cover as source of internal waves
18 p2865 N84-28187

SERGEYENKOV, B. N.
Discharging a superconducting store into an inverting converter
[AD-A135577] 09 p1341 N84-18761

SERGEYEV, I. A.
Experimental study of stress-deformed state of three-layer shells made with anisotropic high-module composite materials
24 p3868 N84-34514

SERGEYEV, K. F.
Seismic model of Earth's crust in southern Sea of Okhotsk region and some results of its geological inerpretation
17 p2701 N84-27207

SERGEYEV, V.
Poor quality aircraft exterior surfaces cause greater fuel expenditures
02 p0167 N84-11095

SERGEYEV, V. N.
On the problem of cylindrical array radiation through inhomogeneous dielectric layer
17 p2631 N84-26831

SERGEYEVA, A. N.
Psychophysics of proprioceptive sensibility
21 p3456 N84-31933

SERGEYEVA, L. I.
Activity of respiratory system during laser irradiation of brain structures
17 p2742 N84-27409

SERGEYEVA, Y. S.
Adrenal-hypothalamus-pituitary system reactions in rats cooled in a hypoxic-hypercapnic gas atmosphere
20 p3254 N84-30655

SERGEYEVSKY, A. B.
Planetary geometry handbook: Venus positional data, 1988 - 2020, volume 2
[NASA-CR-173192] 07 p1091 N84-17096
Planetary geometry handbook: Mars positional data, 1990 - 2020, volume 3
[NASA-CR-173193] 07 p1091 N84-17097
Planetary geometry handbook: Jupiter positional data, 1985 - 2020, volume 4
[NASA-CR-173194] 07 p1091 N84-17098
Planetary geometry handbook: Saturn positional data, 1985 - 2020, volume 5
[NASA-CR-173195] 07 p1091 N84-17099
Interplanetary mission design handbook. Volume 1, part 2: Earth to Mars ballistic mission opportunities, 1990-2005
[NASA-CR-173306] 09 p1260 N84-18226
Interplanetary mission design handbook. Volume 1, part 1: Earth to Venus ballistic mission opportunities, 1991-2005
[NASA-CR-173736] 18 p2801 N84-27779

SERGEYEZ, A. G.
Circuit engineering principles for construction of bipolar large-scale integrated circuit storage devices and very large-scale main memory
21 p3379 N84-31441

SERINKEN, N.
Experimental evaluation of a high frequency radio data terminal in the ship-shore mode
[CRC-1375] 21 p3382 N84-31458
SERNELIUS, B. E.
Elementary excitations and quasi-two-dimensional behaviour in a GaAs field effect transistor
[DE84-701190] 24 p3967 N84-35122
SEROVY, G. K.
Aerodynamics of advanced axial-flow turbomachinery
[AD-A131360] 01 p0012 N84-10073
SERRA, P. R. M.
An integrated software system for geometric correction of LANDSAT MSS imagery
[E84-10143] 16 p2507 N84-26091
SERRADJ, A.
A textural image of Algiers 23 p3784 N84-33996
SERRALLACH, E. N.
Hematologic and biochemical data on healthy individuals participating in a physical conditioning program
[AD-A140464] 16 p2536 N84-26278
SERRANO, A.
Airborne lightning characterization
[AD-A130627] 06 p0861 N84-15733
SERRE, P.
Information search in judgment tasks: The effects of unequal cue validity and cost
[AD-A141712] 19 p3063 N84-29437
SERRIN, J.
Dynamic changes of phase in a van der Waals fluid
[AD-A141708] 19 p3024 N84-29178
SERVAES, D. A.
Use of holographic linear Fringe Linearization Interferometry (FLI) for detection of defects
[AD-A129323] 01 p0083 N84-10543
Holographic FLI (Fringe Linearization Interferometry) for detection of defects
[AD-A135663] 09 p1318 N84-18612
Holographic FLI for detection of defects
[AD-A142733] 20 p3189 N84-30258
SESHU, B.
Compact receivers for Shuttle Imaging Radar (SIR)-B SAR mission 23 p3778 N84-33953
SESMA, A.
Software engineering techniques employed in on-schedule completion of Meteosat-2 software
05 p0723 N84-14746
SESSIN, W.
A 2:1 Commensurability in Uranus-Neptune system
19 p3120 N84-29833
SESSIONS, B.
Heat pipes for the L-SAT communications module radiators 10 p1440 N84-19405
SESSIONS, G. R.
A summary of the psychological effects of tactical nuclear warfare
[AD-P003256] 18 p2905 N84-28423
SESSLER, A.
Laser accelerators
[DE83-016123] 02 p0227 N84-11489
High gain free electron laser at ETA
[DE84-002001] 05 p0686 N84-14512
SESSLER, A. M.
New concepts in particle acceleration
[DE83-017747] 04 p0600 N84-13961
SETCHELL, R. E.
Velocity Interferometer System for Any Reflector (VISAR): Studies of wave growth in granular explosives
[DE83-013772] 02 p0204 N84-11330
SETHIAN, J. A.
Numerical simulation of flame propagation in a closed vessel
[DE84-004959] 11 p1629 N84-20663
Some recent progress in steep front calculations for porous flow
[DE84-006249] 19 p3025 N84-29183
Vortex methods and turbulent combustion
[DE84-011874] 20 p3150 N84-30004
SETHURAMAN, J.
Convex-ordering among functions, with applications to reliability and mathematical statistics
[AD-A132796] 05 p0736 N84-14833
SETHURAMAN, S.
A study of air-pollution mixing heights and atmospheric turbulence over New York City, data report
[DE83-010624] 02 p0244 N84-11596
Proceedings of the Workshop on Coastal Atmospheric Transport Processes
[DE83-015489] 02 p0244 N84-11601
Brookhaven National Laboratory Coastal Meteorology Program, 1972-1983
[DE84-008584] 18 p2891 N84-28349
SETO, J.
Automatic inspection for printed wiring
[AD-A133328] 06 p0854 N84-15566
SETO, L. Y.
An investigation of three-dimensional stall development on NACA 23012 and NACA 0012 aerofoils
[GU-AERO-8300] 15 p2257 N84-24554
SETSER, D. W.
Excited state kinetics of mercury halides and mixtures with N2 and Xe
[AD-A135432] 08 p1124 N84-17310
Chemistry of energetic fragments: Hypovalent radicals
[AD-A143269] 22 p3547 N84-32453
SETTLE, J. L.
Metal dissolution kinetics in halide melts
[DE84-004030] 19 p2995 N84-28977
SETTLE, M.
Current trends and research challenges in land remote sensing 08 p1174 N84-17651
SETZER, C. B.
Space and time analysis in dynamic programming algorithms
[AD-P002963] 14 p2200 N84-24203
SEUBERT, C. E.
Aggregating available soil water holding capacity data for crop yield models
[E84-10161] 17 p2710 N84-27253
SEVASTYANENKO, V. G.
Heat transfer by radiation in hydrogen plasma
21 p3488 N84-32106
SEVENHUIJSEN, P. J.
We need simplicity and speed. Some examples of simple and fast methods for the measurement of deformations of structures
[NLR-MP-82021-U] 06 p0862 N84-15616
Structural deformation: A comprehensive survey of modern measurement methods
[NLR-TR-82021-U] 12 p1827 N84-21909
Stress gages
[AD-B080780] 16 p2495 N84-26012
SEVERI, M.
Evaluation of the attenuation length of a scintillator by means of a computer simulation of the light collection efficiency in long scintillation counters
[NOTA-INTERNA-820] 20 p3176 N84-30169
SEVERIN, A. Y.
Exchange of gases and physical work capacity in natives of different geographic regions
20 p3254 N84-30656
SEVERNYY, A.
Results from Astron satellite after one year in orbit
21 p3347 N84-31233
SEVERNYY, A. B.
Three-element radiointerferometer with very long baselines 19 p2974 N84-28853
SEVERSON, S. J.
Design study of magnetic eddy-current vibration suppression dampers for application to cryogenic turbomachinery
[NASA-CR-173273] 07 p1012 N84-16562
SEVERYN, J. R.
NOVANET: Communications network for a control system
[DE83-013862] 04 p0523 N84-13436
SEVESTRE, C.
La Recherche Aerospatiale, Bimonthly Bulletin, no. 1983-1/212, January-February 1983
[ESA-TT-814] 03 p0429 N84-12810
La Recherche Aerospatiale, Biomonthly Bulletin, no. 1982-4, 209/July-August 1982
[ESA-TT-781] 04 p0477 N84-13141
La Recherche Aerospatiale, Bimonthly Bulletin, no. 1982-2, 207/March-April 1982
[ESA-TT-759] 04 p0478 N84-13143
La Recherche Aerospatiale, Bimonthly Bulletin, no. 1982-6, 211/November-December 1982
[ESA-TT-801] 04 p0515 N84-13382
La Recherche Aerospatiale, Bimonthly Bulletin, no. 1982-3, 208/May-June 1982
[ESA-TT-771] 04 p0593 N84-13916
La Recherche Aerospatiale, bimonthly bulletin number 1983-2, 213/March-April
[ESA-TT-817] 08 p1226 N84-18013
La Recherche Aerospatiale bimonthly bulletin, number 1983-3, 214/May-June
[ESA-TT-822] 08 p1226 N84-18014
La Recherche Aerospatiale, Bimonthly bulletin, number 1983-4, 215/July-August
[ESA-TT-823] 13 p1935 N84-22589
La Recherche Aerospatiale, Bimonthly Bulletin, number 1983-S, 216/September - October
[ESA-TT-836] 15 p2402 N84-25419
La Recherche Aerospatiale, Bimonthly Bulletin, no. 1983-6, 217/November-December
[ESA-TT-841] 16 p2476 N84-25870
La Recherche Aerospatiale, Bimonthly Bulletin, no. 1984-1, 218/ January - February
[ESA-TT-858] 20 p3125 N84-29850
SEWALL, W. G.
Two-dimensional aerodynamic characteristics of an airfoil designed for two
[NASA-TP-1965] 18 p2788 N84-27694
SEWARD, T.
Thermal properties of binary aqueous solutions at high temperatures and high pressure
[BMFT-FB-T-83-217] 12 p1794 N84-21701
SEXTON, F. W.
Radiation testing of the CMOS 8085 microprocessor family
[DE83-014604] 02 p0271 N84-11771
SEXTON, J. L.
US aeromagnetic and satellite magnetic anomaly comparisons 15 p2356 N84-25136
SEXTRO, R. G.
Control of respirable particles and radon progeny with portable air cleaners
[DE84-013878] 23 p3812 N84-34170
SEYDEL, J. A.
Enhanced Fourier algorithms for ultrasonic crack characterization
[DE84-012544] 21 p3423 N84-31714
SEYED-YAGOOBI, J.
Optimation of cooled shields in insulations
[NASA-CR-166583] 18 p2836 N84-27999
SEYLER, C. E.
Inappropriateness of the finite Larmor radius model for the tilting mode in field reversed configurations
[DE84-007467] 15 p2411 N84-25473
SEZE, G.
Sampling problems and cloud statistics
10 p1534 N84-20048
SEZGIN, A.
Forms of large folds in the Central Appalachians, Pennsylvania 23 p3795 N84-34066
SEZGIN, M.
Evaluation of process systems for effective management of aluminum finishing wastewaters and sludges
[PB84-170661] 16 p2520 N84-26178
SFEIR, R.
Coherent digital demodulation of a residual carrier signal using IF sampling 22 p3574 N84-32634
SFORZA, P. M.
High yield wind energy resources in the mid-Hudson River basin
[PB84-184951] 20 p3234 N84-30530
SGRO, A. G.
Transport, stability and relaxation of a Spheromak
[DE84-007285] 15 p2412 N84-25479
SGUBINI, S.
Finite element formulations for tensioned members
12 p1780 N84-21615
Computational savings in view factor evaluation on mode prescreening 12 p1781 N84-21618
SHA, W. C.
Numerical treatment of pipe boundary conditions in two-phase flow
[DE84-006553] 20 p3185 N84-30238
SHA, W. T.
Averaging procedures of multiphase conservation equations
[DE83-014698] 04 p0592 N84-13908
SHABANA, A. A.
Vehicle dynamic analysis with flexible components
[AD-P002939] 14 p2197 N84-24179
SHABETNIK, V. D.
Characteristic faults of input stabilizing and correcting equipment in television transmitting stations
17 p2632 N84-26837
SHACK, W. J.
Effects of nominal and crack-tip strain rate on IGSCC susceptibility in CERT tests
[DE84-004006] 08 p1135 N84-17378
Evaluation of stainless steel pipe cracking: Causes and fixes
[DE84-003459] 09 p1285 N84-18391
Intergranular crack propagation rates in sensitized Type 304 stainless steel in an oxygenated water environment
[DE84-005311] 11 p1635 N84-20688
SHACKELFORD, R. G.
Investigation of the effects of long-duration exposure on active optical system components (S0050)
15 p2279 N84-24687
SHACKELFORD, S. A.
Deuterium isotope effects in HMX thermochemical mechanisms: Decomposition, deflagration, and combustion 13 p1950 N84-22680
SHACKELFORD, W. M.
Increased confidence in spectrum matching by use of a retention time library
[PB83-232090] 06 p0802 N84-15229
SHAFAI, L.
Phase error effects on the radiation patterns of space-fed planar phased arrays
[AD-P003505] 21 p3384 N84-31473

On the quasi-periodic microstrip snake antenna with metal trough backing
[AD-P003510] 21 p3384 N84-31478

SHAFER, E. Y.
Coordinated X-ray and ultraviolet observations of RU Lupi 24 p3978 N84-35199

SHAFER, G.
Weighing evidence: The design and comparison of probability
[AD-A131475] 01 p0137 N84-10896

SHAFER, M. F.
Flight test experience with pilot-induced-oscillation suppression filters
[NASA-TM-86028] 07 p0958 N84-16213
Flight investigation of various control inputs intended for parameter estimation
[NASA-TM-85901] 20 p3131 N84-29884

SHAFER, R. A.
Luminosity enhancement in relativistic jets and altered luminosity functions for beamed objects
[NASA-TM-85053] 03 p0440 N84-12889
Spatial fluctuations in the diffuse cosmic X-ray background, volumes 1 and 2 17 p2775 N84-27621
Spatial fluctuations in the diffuse cosmic X-ray background
[NASA-TM-85029] 24 p3994 N84-35281

SHAFER, W.
Keynesian chaos
[AD-A132836] 05 p0760 N84-14987

SHAFFER, I. S.
Methodology for assessment of corrosion costs 16 p2435 N84-25623

SHAFFER, L. E.
European Scientific Notes, volume 37, number 8
[AD-A133938] 05 p0759 N84-14977
European Scientific Notes, volume 37, number 7
[AD-A132676] 05 p0759 N84-14979
European Scientific Notes. Volume 37, number 9
[AD-A133558] 06 p0935 N84-16079
European Scientific Notes, volume 37, numbers 10/11
[AD-A134360] 07 p1084 N84-17053
European Scientific Notes, volume 37, no. 12
[AD-A135883] 09 p1404 N84-19173
European Scientific Notes, volume 38, number 1
[AD-A136868] 10 p1598 N84-20472
European Scientific Notes, Volume 38, Number 2
[AD-A137652] 11 p1746 N84-21394
European Scientific Notes, volume 38, no. 3
[AD-A138163] 12 p1918 N84-22498
European scientific notes. Volume 38, Number 4
[AD-A140039] 15 p2416 N84-25506
European scientific notes. Volume 38, number 6
[AD-A142175] 19 p3116 N84-29801
European scientific notes, volume 38, no. 5
[AD-A141713] 21 p3518 N84-32285
European scientific notes, Volume 38, Number 7
[AD-A143238] 22 p3674 N84-33287
European scientific notes
[AD-A144223] 24 p3995 N84-35284

SHAFFER, W. A.
The retrieval of atmospheric constituent mixing-ratio profiles from solar absorption spectra
[NASA-CR-173303] 08 p1186 N84-17730
Effects of systematic errors on the mixing ratios of trace gases obtained from occulation spectra
[NASA-CR-175371] 08 p1231 N84-18046

SHAFI, Q.
Implications of a class of grand unified theories for large scale structure in the universe
[NASA-TM-86146] 24 p3987 N84-35240

SHAFRANSKIY, L. G.
Laser impulse drilling machine discussed 24 p3891 N84-34641

SHAFROTH, S. M.
Simultaneous electron capture and excitation in ion-atom collisions
[DE83-005799] 06 p0910 N84-15907

SHAFTER, A. W.
On the masses of white dwarfs in cataclysmic binaries 21 p3524 N84-32323

SHAGALOV, V. L.
Formation of structure of low-alloy steel inoculated with rare-earth metals and alkaline-earth metals
[BLL-M-35321] 04 p0497 N84-13258

SHAH, A. H.
Static and dynamic behavior of mechanical components associated with electrical transmission lines 10 p1505 N84-19844

SHAH, S. P.
Fracture toughness of fiber reinforced concrete
[AD-A133809] 05 p0692 N84-14547

SHAHA, O.
Implications of heavy-ion-induced satellite X-ray emission. Part 2: Production of K and L X-rays by 0.9 to 2.6 MeV/u Ar ions in thick targets of V, Cu, Nb, Ta, and Pt
[DE83-015681] 03 p0453 N84-12982

SHAHANI, H. R.
Solubility of hydrogen in metals and its effect of pore-formation and embrittlement
[NASA-CR-173399] 14 p2127 N84-23751

SHAHIN, M. Y.
Evaluation of the pavement condition index for use on porous friction surfaces
[AD-A144521] 24 p3857 N84-34453

SHAHINIAN, P.
Fatigue crack growth behavior of an oxide dispersion strengthened MA956 alloy
[AD-A142059] 21 p3421 N84-31702

SHAHSHAHANI, M.
Projection pursuit regression: Some mathematics
[AD-A134544] 07 p1063 N84-16894

SHAI, M. C.
Diffusely reflecting paints including polytetrafluoroethylene and method of manufacture
[NASA-CASE-GSC-12883-1] 15 p2300 N84-24806

SHAIKH, N.
Acoustoelasticity: Scanning with shear waves 05 p0695 N84-14560

SHAING, K. C.
Neoclassical transport in a multiple-helicity torsatron in the low-collisionality regime: Strong radial electric-field limit
[DE83-016463] 02 p0296 N84-11941

SHAJENKO, P.
Optical sensing devices
[AD-D011038] 19 p3105 N84-29725

SHAKHALOVA, G. I.
Fracture of aluminum in uniaxial and biaxial extension at 473-77 deg K 12 p1783 N84-21635

SHAKHANOV, T. V.
Seasonal variability of surface currents in world ocean 17 p2698 N84-27188

SHAKHNAROVICH, V. M.
Electrosleep in prophylaxis of psychoneural stress and recovery of mental performance in operators 18 p2895 N84-28367

SHAKHTARIN, V. N.
Problems in the development of high-power turbogenerators with superconducting field windings
[AD-A136525] 09 p1325 N84-18657

SHAKIROV, K.
Use of scientific potential in industry discusses 01 p0055 N84-10353

SHAKURSKIY, V. K.
Inductive transducer for displacement-to-frequency conversion 22 p3567 N84-32594

SHALIMOV, A. P.
Calculation of thermal stress state for components of metallurgical equipment by electric simulation
[BLL-M-35690-(5828.4)] 22 p3608 N84-32860

SHALIMOV, S. L.
Auroral ion acceleration
[PR-783] 08 p1184 N84-17715

SHALIT, B.
Coherence of appraisal and coping: Parachute jump effectiveness
[FOA-C-55058-H3] 03 p0416 N84-12724

SHAM, T. K.
Fragmentation of small molecules following soft X-ray excitation
[DE83-011645] 02 p0289 N84-11896
Gas phase spectroscopy near the carbon K-edge
[DE84-002876] 07 p0971 N84-16294

SHAMOLIN, V. M.
Coordinated X-ray and ultraviolet observations of RU Lupi 24 p3978 N84-35199

SHAMPINE, L. F.
Error estimators for stiff differential equations
[DE84-003331] 07 p1064 N84-16901
Interpolation for Runge-Kutta methods
[DE84-006455] 11 p1716 N84-21193
Step sizes used by one-step codes for ODEs
[DE84-006317] 12 p1895 N84-22344
Local error estimating by doubling
[DE84-010107] 15 p2363 N84-25180
Stability of explicit Runge-Kutta methods
[DE84-008902] 19 p3090 N84-29621
Some practical Runge-Kutta formulas
[DE84-013539] 22 p3646 N84-33123

SHAMROTH, S. J.
Computation of discrete slanted hole film cooling flow using the Navier-Stokes equations
[AD-A137022] 10 p1493 N84-19763
Investigation of the mechanism of transonic shock wave/boundary layer interactions using a Navier-Stokes analysis
[AD-A141551] 19 p2959 N84-28752
Three-dimensional unsteady viscous flow analysis over airfoil sections
[NASA-CR-172368] 19 p3020 N84-29152
Development of a design-oriented Navier-Stokes cascade analysis
[AD-A144594] 24 p3901 N84-34703

SHAN, T. J.
New adaptive processor for coherent signals and interference
[AD-A142638] 20 p3273 N84-30776
A new adaptive antenna system for coherent signals and interference
[AD-A144355] 24 p3898 N84-34683
Spatio-temporal spectral analysis by eigenstructure methods
[AD-A144361] 24 p3951 N84-35017

SHANAHAN, D. F.
Impact and vibration testing of a modified UH-1 crew seat
[AD-A130279] 01 p0117 N84-10760
Impact response of an energy absorbing earcup
[AD-A134828] 08 p1205 N84-17860
Medical aspects of helicopter safety and crashworthiness 16 p2537 N84-26287
Back pain in helicopter flight operations 16 p2537 N84-26288

SHANAHAN, W. R.
Energetic plasma-beam propagation in weak and strong magnetic fields
[DE84-001362] 04 p0607 N84-14005

SHANBHAG, R. N.
Time domain analysis and synthesis of robust controllers for large scale LQG (Linear Quadratic Gaussian) regulators
[AD-A137760] 11 p1713 N84-21172

SHANDS, T. G.
Metal-insulator-metal junctions as surface sources of intermodulation
[AD-A130451] 01 p0043 N84-10279

SHANER, J. W.
Melting of metals above 100 GPa
[DE83-015261] 01 p0046 N84-10299
Fast, non-linear optical-scattering spectroscopy in shock-compressed organic liquids
[DE83-007548] 01 p0148 N84-10972
Raman spectroscopies in shock-compressed materials
[DE83-014170] 02 p0190 N84-11236
Rarefaction velocities in shocked tantalum and the high-pressure melting point
[DE83-015916] 02 p0195 N84-11268
Single-pulse coherent Raman spectroscopy in shock-compressed benzene
[DE83-014140] 02 p0219 N84-11433
Optical diagnostics for condensed-phase shock-compressed molecular systems
[DE84-001172] 06 p0845 N84-15510
Pattern formation by shock processes
[DE83-015249] 10 p1469 N84-19592

SHANGUROV, A. V.
Mechanical properties of Mn-Al-C system alloys
[BLL-M-35432] 09 p1280 N84-18362

SHANK, D. E.
Flight Experiment Demonstration System (FEDS): Mathematical specification
[NASA-CR-175252] 22 p3539 N84-32405

SHANKLAND, T. J.
Mechanisms of electrical conductivity in olivine
[DE83-017313] 22 p3588 N84-32723

SHANKS, H. R.
Amorphous silicon-carbon films
[DE83-018077] 03 p0347 N84-12259

SHANKS, S. P.
A solution procedure for three-dimensional incompressible Navier-Stokes equation and its application
[NASA-TM-85978] 17 p2600 N84-26666

SHANLEY, J. F.
Development of a HgCdTe photomixer and impedance matched GaAs FET amplifier
[NASA-CR-170608] 02 p0213 N84-11390

SHANMUGAN, K. S.
The influence of sensor and flight parameters on texture in radar images 03 p0394 N84-12575

SHANNON, J. D.
Rush field experiments: Growth and initial decay of the mixed layer over an autumn landscape
[DE84-001671] 07 p1040 N84-16743
Estimation of North America anthropogenic sulfur deposition as a function of source/receptor separation
[DE84-003638] 08 p1182 N84-17701
Meteorologically induced uncertainty in LRT modeling
[DE84-003444] 11 p1676 N84-20935

SHANNON, J. T.
Decision theory: Individual biases and their effect on forecasting in an organization
[AD-A137943] 11 p1746 N84-21395
SHANNON, P.
Climatological frequency distributions for Juneau, Alaska
[PB84-154814] 14 p2180 N84-24059
SHAO, H. M.
VLSI architectures for computing multiplications and inverses in GF(2-m) 04 p0518 N84-13406
A parallel VLSI architecture for a digital filter using a number theoretic transform 09 p1400 N84-19141
A systolic VLSI design of a pipeline Reed-Solomon decoder 10 p1474 N84-19631
SHAO, M.
Radio astronomy 22 p3683 N84-33349
SHAOGING, Z.
The effects of solid solution temperatures and cooling rates on the microstructures of BT3-1 titanium alloy 20 p3160 N84-30066
SHAPIR, Y.
Supersymmetric statistical models on the lattice
[DE84-006758] 15 p2414 N84-25494
SHAPIRO, A. B.
FACET: A radiation-view-factor computer code for axisymmetric, 2D planar and 3D geometries with shadowing
[DE84-000359] 04 p0581 N84-13835
Computer implementation, accuracy, and timing of radiation view-factor algorithms
[DE83-017618] 04 p0583 N84-13849
TOPAZ: A finite element heat conduction code for analyzing 2-D solids
[DE84-010676] 20 p3187 N84-30247
SHAPIRO, A. J.
The design, simulation and developmental testing of the Space Shuttle Data Bus System 15 p2269 N84-24624
SHAPIRO, D. G.
An informal study of program comprehension
[AD-A142224] 19 p3079 N84-29534
SHAPIRO, I. I.
Viking radio science data analysis and synthesis
[NASA-CR-173966] 23 p3843 N84-34385
SHAPIRO, J. H.
Coherent laser radar remote sensing
[AD-A139448] 14 p2151 N84-23885
Atmospheric propagation effects on infrared radars
[AD-A143196] 22 p3576 N84-32651
Optical propagation and communication 22 p3683 N84-33355
SHAPIRO, N.
CLARIFY: An on-line guide for revising technical prose
[N-2037-RC] 15 p2417 N84-25509
SHAPIRO, N. Z.
Interactive information environments: A plan for enabling interdisciplinary research
[RAND/N-2115] 22 p3673 N84-33284
SHAPIRO, P.
A magnetically suspended linearly driven cryogenic refrigerator 06 p0820 N84-15345
Calculation of cosmic ray induced single event upsets: Program CRUP (Cosmic Ray Upset Program)
[AD-A133620] 06 p0941 N84-16113
Proton-induced single event upsets in the SBP9989 microprocessor
[AD-A142448] 20 p3266 N84-30724
SHAPIRO, S. M.
Spin correlations near the ferromagnetic to spin glass crossover
[DE84-007385] 15 p2299 N84-24799
SHAPIRO, V. D.
Beam plasma discharge and suprathermal electron tails 05 p0637 N84-14192
Electron acceleration in the front of intense collisionless shock waves
[PR-813] 08 p1154 N84-17511
SHAPKIN, A. A.
Action of penetrating radiation on radio parts
[AD-A142107] 19 p3007 N84-29059
SHAPOURI, S.
Review and assessment of USAF and US Army (HISS) artificial icing cloud studies
[AD-A135720] 09 p1349 N84-18814
SHAPOVAL, V. I.
Production of titanium powders by the electrolysis of chloride-fluoride melts with a soluble anode
[BLL-OA-TRANS-3136-(6196.3)] 08 p1128 N84-17338
SHARBER, J. R.
F-layer ionization patches in the polar cap
[AD-A138633] 13 p2011 N84-23044
SHARIFOVA, S. F.
A study of Beta-hydroxyamines and Beta-hydroxysulphides as corrosion inhibitors for metals
[BLL-T6313/BG/WH773/84] 22 p3552 N84-32487
SHARINA, L. V.
Aerodynamics of hovering 17 p2645 N84-26923
SHARMA, A. M.
Direct generation of seismic floor response spectra for classically and nonclassically damped structures
[PB84-191675] 21 p3445 N84-31860
SHARMA, G. C.
Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-256704-1] 13 p1985 N84-22884
SHARMA, O. P.
Energy efficient engine: Low-pressure turbine subsonic cascade component development and integration program
[NASA-CR-165592] 18 p2795 N84-27738
SHARMA, R. D.
Tests of an inversion algorithm for spectrally resolved limb emission
[AD-A134128] 05 p0733 N84-14814
A computer code to calculate emission and transmission of infrared radiation through non-equilibrium atmospheres
[AD-A137162] 11 p1683 N84-20980
SHARMA, V.
Tempering kinetics of alloy steels as a function of quench rate and M sub s temperature
[AD-A134806] 08 p1132 N84-17365
SHARMAN, P. W.
A thin-walled beam finite element
[TT-8302] 03 p0425 N84-12779
The inclusion of flexible joints in the stiffness method
[TT-8401] 18 p2854 N84-28122
Formulation of stiffness matrices for elastic buckling of thin-walled open section prismatic columns
[TT-8402] 20 p3204 N84-30353
SHAROV, V. I.
Faults and nature of seismic discontinuities in continental crust section 18 p2860 N84-28161
SHARP, D. J.
An evaluation of the effect of cell voltage and termination current on barrier anodic Al2O3 film formation
[DE83-013961] 02 p0195 N84-11266
Observations of damage and transport of hydrogen in ion bombarded polycrystalline silicon
[DE84-008035] 14 p2243 N84-24466
SHARP, G. R.
Structural design of a vertical antenna boresight 18.3 by 18.3-m planar near-field antenna measurement system
[NASA-TM-83781] 22 p3597 N84-32783
Characteristics and capacities of the NASA Lewis Research Center high precision 6.7- by 6.7-m planar near-field scanner
[NASA-TM-83785] 22 p3598 N84-32789
SHARP, K.
Development of a polysilicon process based on chemical vapor deposition, phase 1 and phase 2
[NASA-CR-173957] 23 p3786 N84-34015
SHARP, R. L.
Skeletal muscle metabolism of sea-level natives following short-term high-altitude residence
[AD-A139323] 15 p2380 N84-25284
SHARP, W.
Plasma current and conductivity effects on hose instability
[AD-A137549] 11 p1729 N84-21282
SHARP, W. M.
Comparisons of hydrodynamic beam models with kinetic treatments
[DE84-003242] 08 p1233 N84-18057
SHARPE, R. E.
Ultraviolet curable resin system for rapid runway repair
[AD-A130364] 01 p0016 N84-10104
SHARPE, S. M.
Development of an EM-based lifeform monitor
[AD-A140583] 17 p2745 N84-27430
SHARPE, W. N., JR.
A new optical technique for rapid determination of creep and fatigue thresholds at high temperature
[AD-A142675] 20 p3202 N84-30341
SHARPTON, V. S.
Venus: Global distribution of Pioneer-Venus radar roughness and reflectivity and global correlation of altimetry, roughness and reflectivity observations 13 p2077 N84-23461
SHASBY, M. B.
Land cover and terrain mapping for the development of digital data bases for wildlife habitat assessment in the Yukon Flats National Wildlife Refuge, Alaska 14 p2166 N84-23971
SHASHKOV, V. S.
Shielding part of bone marrow as a method of local protection against cosmic radiation 07 p1044 N84-16771
Effect of sydnocarb on hemodynamics and redistribution of blood during functional tests following six-hour antiorthostatic hypokinesia 07 p1045 N84-16777
Effect of dihydroergotamine on human circulation during orthostatic tests 20 p3253 N84-30646
SHASHLOV, B. A.
Effect of laminated structure in materials based on complexes with charge transfer 18 p2826 N84-27943
SHATALOV, M. Y.
Method of deriving equations of motion for dynamically adjustable gyroscope 17 p2643 N84-26912
SHATASHVILI, L. K.
Calculations of the amplitude spectrum of the 27-day variations of galactic cosmic rays 24 p3993 N84-35271
Lunar variations of cosmic ray intensity 24 p3993 N84-35272
A crossed scintillation supertelescope to measure the muon component of cosmic ray intensity 24 p3994 N84-35274
SHATOKHIN, S. N.
Improvement of dynamic characteristics of gas-static bearings 13 p1968 N84-22775
SHATZ, S. M.
The representation and synthesis of design specifications for distributed software systems 13 p2030 N84-23163
SHAUGHNESSY, J. D.
Controls, Displays, and Information Transfer for General Aviation IFR Operations
[NASA-CP-2279] 03 p0311 N84-12029
Single pilot IFR program overview and status 03 p0311 N84-12030
Conceptual design and simulator implementation of an automatic terminal approach system
[NASA-TM-85667] 07 p0959 N84-16215
SHAVELSON, R. J.
Successful use of microcomputers in classroom instruction
[RAND/P-6653] 12 p1876 N84-22229
SHAVER, G. R.
Deforestation measured by LANDSAT: Steps toward a method
[DE83-016645] 04 p0554 N84-13652
SHAVER, S. A.
The Hall (Nevada moly) molybdenum deposit, Nye County, Nevada: Geology, alteration, mineralization and geochemical dispersion 23 p3795 N84-34062
SHAW, B. D.
The annular flow electrothermal ramjet
[NASA-CR-174704] 21 p3354 N84-31275
SHAW, C. G.
Contamination measurements during IUS thermal vacuum tests in a large space chamber 24 p3865 N84-34496
SHAW, C. T.
Bodies in compressible flow: The use of axial singularity distributions
[COLL-AERON.-8329] 11 p1600 N84-20483
A ring source method for predicting the aerodynamic characteristics of bodies of revolution
[COA-8409] 19 p2957 N84-28744
SHAW, C., III
Considerations on command and response language features for a network of heterogeneous autonomous computers
[NASA-TM-86089] 18 p2923 N84-28535
SHAW, D.
Analysis of the nonlinear large deformation behavior of composite cylindrical shells
[AD-A133761] 05 p0693 N84-14549
SHAW, D. E.
Transonic configuration design (fighter) 03 p0318 N84-12062
SHAW, D. M.
S-I-S mm-wave mixers and detectors
[AD-A134762] 08 p1235 N84-18074
SHAW, G. E.
Arctic haze: Natural or pollution?
[AD-A134263] 07 p1039 N84-16737
SHAW, H. J.
Diode pumped fiber laser
[AD-A138198] 12 p1820 N84-21866
SHAW, J.
Simulation requirements to support the development of a fault tolerant avionic system 06 p0774 N84-15072
SHAW, J. H.
A spectrum of methane from 700 to 5500 cm-1
[NASA-CR-175360] 07 p0969 N84-16280

Least squares methods of analyzing spectroscopic data
[NASA-CR-173241] 07 p1059 N84-16858
Least squares methods of analyzing spectroscopic data
[NASA-CR-175335] 07 p1061 N84-16877
Effects of systematic errors on the mixing ratios of trace gases obtained from occulation spectra
[NASA-CR-175371] 08 p1231 N84-18046
Analysis of carbon dioxide bands near 2.2 micrometers
[NASA-CR-173605] 16 p2462 N84-25779
Simultaneous retrieval of atmospheric temperatures and ray paths from occultation spectra
[NASA-CR-173849] 17 p2726 N84-27354

SHAW, L. S.
Pivotal mono wing cruise missile with wing deployment and fastener mechanism
[AD-D011192] 24 p3853 N84-34436

SHAW, M. C.
Influence of soft inclusions on the strength of wrought materials
[NASA-CR-173610] 16 p2464 N84-25791

SHAW, M. S.
Dense molecular thermodynamics
[DE83-015216] 03 p0457 N84-13006
Equation of state for the detonation products of several simple explosives
[DE83-017266] 06 p0813 N84-15290

SHAW, R. C.
Device and method for frictionally testing materials for ignitability
[NASA-CASE-MSC-20622-1] 13 p1937 N84-22596

SHAW, R. D.
The detection of pitting corrosion in stainless steel using double-layer activation
[AERE-R-9751] 01 p0047 N84-10304

SHAW, R. J.
Heat transfer distributions around nominal ice accretion shapes formed on a cylinder in the NASA Lewis icing research tunnel
[NASA-TM-83557] 05 p0679 N84-14463
Progress toward the development of an aircraft icing analysis capability
[NASA-TM-83562] 11 p1601 N84-20490

SHAW, R. W.
Matrix-isolation photoacoustic spectroscopy
[DE84-001967] 05 p0651 N84-14277

SHAW, S. W.
A periodically forced piecewise linear oscillator
06 p0856 N84-15577

SHAW, W. J.
A study of coherent structures in the near-neutral marine atmospheric boundary layer 03 p0406 N84-12658

SHAWHAN, S. D.
Electron beam experiments aboard the Space Shuttle
05 p0638 N84-14195
Interaction of the space shuttle orbiter with the ionospheric plasma 08 p1117 N84-17265
A potential control method for thermal plasma measurements on the DE-1 spacecraft
08 p1119 N84-17276
Research in space physics at the University of Iowa, 1982
[NASA-CR-175411] 11 p1754 N84-21447
Effects of chemical releases by the STS-3 Orbiter on the ionosphere
[NASA-CR-171032] 15 p2367 N84-25204
STS-3/OSS-1 Plasma Diagnostics Package (PDP) measurements of Orbiter-generated V x B potentials and electrostatic noise
[AD-P002105] 16 p2522 N84-26191

SHAWKI, T. G.
Analysis of shear strain localization in thermal visco-plastic materials
[AD-A138186] 12 p1798 N84-21727

SHAY, L. K.
Observations of inertio-gravity waves in the wake of Hurricane Frederic
[AD-A139944] 15 p2373 N84-25239

SHAYDOROV, Y. I.
Plant waste processing on a solid substrate for a biological life-support system for man
07 p1046 N84-16786

SHAYEGAN, M.
Magnetic properties of CoCl2-Intercalated graphite
[AD-A133860] 05 p0648 N84-14260

SHCHEGLOV, V. I.
Determining parameters of radiating focus from amplitude spectra of body waves
17 p2704 N84-27222

SHCHEMELININ, V. M.
Multi-criteria approach to selection of optimal connections in large-scale integrated circuits
21 p3378 N84-31436

SHCHERBA, V. N.
Analytical determination of resistance of aluminium alloys to deformation
[BLL-M-35476-(5828.4)] 12 p1796 N84-21714

SHCHETININ, L. K.
Behavior of Al2O3 and SiO2 with heating in a Cl2 + CO stream
[NASA-TM-77487] 23 p3713 N84-33533

SHCHIGOLEV, V. V.
Changes in cardiac output and orthostatic stability of cosmonauts 02 p0259 N84-11697

SHCHIPANOV, A. A.
Mechanical properties of Mn-Al-C system alloys
[BLL-M-35432] 09 p1280 N84-18362

SHCHUKIN, A. I.
Effect of working in two shifts on circadian rhythm of heart rate 15 p2376 N84-25260

SHE, C. Y.
Photon-burst correlation techniques for atmospheric crosswind measurements
[AD-A134617] 08 p1187 N84-17735

SHEA, M.
Performance of passive solar and energy conserving houses in California
[SERI/STR-254-2017] 23 p3790 N84-34039
Documentation of data processing procedures and extension of Class B data analysis
[SERI/STR-254-2085] 23 p3815 N84-34189

SHEA, M. A.
Proceedings of the STIP (Study of Travelling Interplanetary Phenomena) Symposium on Solar Radio Astronomy, Interplanetary Scintillations and Coordination with Spacecraft
[AD-A130687] 01 p0165 N84-11087

SHEA, M. F.
Memory-mapped CAMAC branch driver
[DE83-016084] 01 p0119 N84-10775
Modern control techniques for accelerators
[DE84-012521] 21 p3494 N84-32140

SHEA, M. L.
The computerization of material safety data sheet information
[AD-A131992] 03 p0459 N84-13021

SHEA, R. F.
IEEE Transactions on Nuclear Science. Volume NS-30, no. 4, part 2: 1983 Particle Accelerator Conference
[DE84-007400] 20 p3294 N84-30914

SHEALY, D. L.
Theoretical design and analysis of the layered synthetic microstructure optic for the dual path X-ray telescope
[NASA-CR-171133] 21 p3498 N84-32168

SHEARER, D. M.
Reverse combustion along constant geometry fissures in heterogeneous fuels 04 p0492 N84-13232

SHEARER, J.
An application of number theory to the organization of raster-graphics memory
[AD-A140638] 17 p2758 N84-27508

SHEARIN, J. G.
Effects of simulated flight on the structure and noise of underexpanded jets
[NASA-TP-2308] 15 p2403 N84-25422

SHEARMAN, E. D. R.
A review of propagation and scattering factors in remote-sensing and ship-tracking by HF radar
06 p0868 N84-15655

SHEATH, P. H.
Advanced Ultra-Violet (UV) aircraft fire detection system. Volume 3: Ground Support Equipment (GSE) for system check-out
[AD-A130298] 01 p0006 N84-10039

SHEBALIN, J. V.
Nonlinear dynamics and control of a vibrating rectangular plate
[NASA-CR-172215] 03 p0388 N84-12528

SHEBANITS, E. N.
Use of refractory coatings to protect metal gainst high-temperature corrosion
[BLL-M-35543-(5828.4)] 17 p2621 N84-26772

SHECHTMAN, D.
Precipitation in rapidly solidified Al-Mn alloys
[AD-A136128] 09 p1284 N84-18385

SHEDLER, G. S.
Simulation of non-Markovian systems
[AD-A130837] 01 p0133 N84-10871

SHEEHAN, R. E.
Estimates of precipitating electron power flux from simultaneous DMSP auroral image and ISEE-1 AKR observations
[AD-P002109] 16 p2523 N84-26195

SHEELEY, N. R., JR.
Associations between coronal mass ejections and interplanetary shocks 03 p0474 N84-13121

SHEEM, S. K.
Optical fiber gyroscope with (3x3) directional coupler
[AD-D011152] 23 p3750 N84-33771

SHEEN, R. L.
Experimental measurement of material damping for space structures in simulated zero-g
[AD-A139215] 14 p2120 N84-23703

SHEEN, S. H.
Active ultrasonic cross-correlation flowmeters for mixed-phase pipe flows
[DE84-006449] 20 p3189 N84-30260

SHEER, T. J.
Investigations into the use of ice for cooling deep mines 11 p1641 N84-20726

SHEERIN, J. P.
The HF-enhanced plasma line
05 p0635 N84-14180
Soliton collapse during ionospheric heating
[DE84-009994] 20 p3241 N84-30576

SHEETS, R. C.
National Weather Service hurricane probability program
[PB84-182757] 20 p3248 N84-30619

SHEFFER, E. K.
Coordinated X-ray and ultraviolet observations of RU Lupi 24 p3978 N84-35199

SHEFFIELD, C. A.
Contribution of LANDSAT-4 thematic mapper data to geologic exploration
[E84-10021] 02 p0237 N84-11557
Evaluation of LANDSAT-D Thematic Mapper performance as applied to hydrocarbon exploration
[E84-10154] 19 p3038 N84-29275
Evaluation of LANDSAT-4 Thematic Mapper data as applied to geologic exploration: Summary of results
20 p3213 N84-30412

SHEFFIELD, J.
Options for an ignited tokamak
[DE84-007927] 13 p2045 N84-23272

SHEFFIELD, J. W.
Weight characteristics of future spacecraft thermal management systems
[AD-A141403] 19 p2982 N84-28895

SHEFFIELD, P. J.
Hyperbaric chamber equipment: A consolidated equipment list from selected multiplace hyperbaric facilities
[AD-A141702] 19 p2970 N84-28820

SHEFFIELD, R. L.
Electron-beam diagnostics for the Los Alamos free-electron oscillator experiment
[DE83-017230] 03 p0381 N84-12481
The Los Alamos free-electron-laser oscillator experiment: Plans and present status
[DE83-017290] 03 p0382 N84-12485
First operation of the Los Angeles free-electron laser oscillator
[DE84-006024] 11 p1664 N84-20856
Electron beam diagnostic for the Los Alamos free electron laser oscillator experiment
[DE84-011348] 20 p3193 N84-30278

SHEFFIELD, S. A.
Particle-velocity measurements of laser-induced shock waves using ORVIS
[DE83-016503] 02 p0228 N84-11494
Particle velocity measurements in laser irradiated foils using ORVIS
[DE83-016629] 04 p0541 N84-13563

SHEFFLER, K. D.
Development of strain tolerant thermal barrier coating systems, tasks 1 - 3
[NASA-CR-168251] 03 p0355 N84-12312
Materials for Advanced Turbine Engines (MATE): Project 3: Design, fabrication and evaluation of an oxide dispersion strengthened sheet alloy combustor liner
[NASA-CR-174691] 22 p3554 N84-32504

SHEFT, C.
Study of particulate formation and radiant heat loss in direct injection-type diesel engines
[PB84-160100] 15 p2344 N84-25073

SHEIBLEY, D. W.
Additive for zinc electrodes
[NASA-CASE-LEW-13286-1] 05 p0673 N84-14422
Regenerative hydrogen-oxygen fuel cell-electrolyzer systems for orbital energy storage
23 p3735 N84-33670

SHEIH, C. M.
Evaluation of wind field interpolation schemes used in studies of regional-scale pollutant transport
[DE84-003634] 08 p1182 N84-17699

SHEIKH, Q. M.
Systems of nonlinear algebraic equations arising in simulation of semiconductors devices
[DE84-006490] 11 p1716 N84-21195

SHEINBERG, H.
Novel hard metal compositions and properties
[DE84-001736] 05 p0656 N84-14310
Hard metal composition
[DE84-011034] 20 p3156 N84-30040

SHEINMAN, I.
Analysis of the nonlinear large deformation behavior of composite cylindrical shells
[AD-A133761] 05 p0693 N84-14549
SHEINSON, R. S.
Plasma discharge chemistry
[AD-A141033] 18 p2932 N84-28596
SHEKELL, G.
Development of a unique Physical Metrology Laboratory Recall System
[DE83-017415] 03 p0423 N84-12767
SHEKHAR, S.
TEM studies on the deformation structure of Cu-10Ni-6Sn spinodal alloy
[DE84-004426] 11 p1635 N84-20690
SHELEKHOV, E. V.
Calculation of structure factor for different cluster models of an amorphous alloy
[BLL-M-35293-(5828.4)] 06 p0803 N84-15234
SHELKIN, B. D.
DMA (Defense Mapping Agency) policy for digital MC and G (Mapping, Charting, and Geodesy) support of advanced systems
[AD-A142746] 21 p3430 N84-31765
SHELLER, S. L.
A matched filter doppler processor for airborne radar
[AD-A130653] 01 p0065 N84-10425
SHELLEY, S.
Command flight path display, phase 1 and 2
[AD-A140870] 17 p2611 N84-26711
SHELLMAN, C. H.
Propagation of ELF (extremely low frequencies) waves in the spherical Earth-ionosphere waveguide with transverse and longitudinal variation of properties
[AD-A135890] 09 p1300 N84-18502
SHELLY, M.
Notes on a theory of terrorism
[AD-P003242] 18 p2903 N84-28409
SHELPYAKOV, A. N.
Transition from laminar to turbulent flow under action of acoustic vibrations 21 p3480 N84-32056
SHELSWELL, P.
Satellite broadcasting: Protection ratio requirements for enhanced transmissions using extended PAL vision and digital sound signals
[BBC-RD-1983/18] 07 p0986 N84-16386
SHELTON, E. M.
Aviation fuels, 1983
[DE84-011823] 20 p3166 N84-30106
SHELTON, F. H.
Satellite system survivability
[AD-P002147] 14 p2137 N84-23812
SHELTON, J. C.
EPA evaluation of the Atomized Vapor Injector device under Section 511 of the Motor Vehicle Information and Cost Savings Act
[PB83-214684] 01 p0163 N84-11072
Lightning mapper sensor design study
[NASA-CR-170909] 04 p0566 N84-13732
Two-dimensional photometry of active regions 17 p2778 N84-27640
SHELTON, J. P.
Performance analysis of a three-dimensional microwave lens in a cylindrical array scanning application
[AD-A131891] 03 p0360 N84-12345
Aperture efficiency considerations in the convolution synthesis of symmetrical hexagonal arrays
[AD-A133367] 06 p0824 N84-15369
A comparative study of linear array synthesis technique using a personal computer
[AD-A141444] 19 p3076 N84-29515
A comparative study of linear array synthesis technique using a personal computer
[AD-P003500] 21 p3383 N84-31468
SHELTON, R. T.
Nova laser alignment control system
[DE84-010992] 20 p3194 N84-30288
SHELUDKO, I. F.
Detailed study of Earth's crust in Baykal rift zone according to refracted waves data 18 p2860 N84-28160
SHEMANSKY, D. E.
Pioneer 10 and Voyager observations of the interstellar medium in scattered emission of the He584 A and H Lya 1216 A lines
[NASA-CR-173931] 23 p3840 N84-34361
Particle excitation, airglow and H2 vibrational disequilibrium in the atmosphere of Jupiter
[NASA-CR-173930] 23 p3843 N84-34383
SHEMER, L.
On modifications of the Zakharov equation for surface gravity waves
[AD-A135050] 08 p1217 N84-17943
SHEN, C.
Measurement of electromagnetic shower position and size with a saturated avalanche tube hodoscope and a fine grained scintillation hodoscope
[DE84-007247] 15 p2337 N84-25032
SHEN, C. N.
On the extremum of bilinear functional for hyperbolic type P.D.E.
[AD-P002942] 14 p2197 N84-24182
On the extremum of bilinear functional for hyperbolic type partial differential equations
[AD-A142505] 20 p3281 N84-30828
SHEN, H. M.
Fields and currents and charges on obstacles in a parallel-plate simulator at selected frequencies and with pulse excitation
[AD-A132406] 04 p0520 N84-13418
SHEN, L.
Stable explicit schemes for equations of the Schroedinger type
[AD-A140779] 17 p2758 N84-27513
A stable explicit scheme for the ocean acoustic wave equation
[AD-A141800] 19 p3062 N84-29427
SHEN, M. C.
Granular jumps down an inclined plane
[AD-A130501] 01 p0132 N84-10863
SHEN, M. Y. H.
User's guide for ERB 7 matrix. Volume 1: Experiment description and quality control report for year 1
[NASA-CR-170619] 21 p3464 N84-31960
SHEN, Y. R.
Optical second-harmonic generation for surface studies
[DE84-010718] 20 p3300 N84-30958
Experimental study of strong nonlinear-optics effects in liquid crystals 21 p3483 N84-32071
SHENAR, J.
Control of large flexible spacecraft by the independent modal-space control method
[NASA-CR-3760] 09 p1265 N84-18262
SHENDAKOV, A. I.
Cold-cathode gas-discharge modulator power tube 21 p3379 N84-31443
SHENEMAN, R. L.
Clad cast steel strip
[DE84-014245] 23 p3719 N84-33574
SHENHAR, J.
Application of control theory to large flexible structures using the independent modal-space control method 13 p1940 N84-22617
SHENOY, G. K.
General cases of the pseudoquadrupole interaction in (169)Tm
[DE83-015685] 07 p1082 N84-17040
Crystal fields and second order magnetic hyperfine interactions in TmFe2Si2
[DE84-003622] 08 p1236 N84-18078
SHENOY, K. R.
High-speed noise of helicopter rotors 19 p3097 N84-29673
SHENOY, R. N.
Effect of alloy chemistry and exposure conditions on the oxidation of titanium
[NASA-TM-86295] 22 p3555 N84-32507
SHEPARD, C. L.
Holographic interferometry using 20-picosecond UV pulses to obtain time resolved hydro measurements of selenium and gold plasmas
[DE84-009485] 20 p3191 N84-30269
Experiments and theory on half-harmonic light and 2-plasmon decay
[DE84-008945] 20 p3193 N84-30276
SHEPARD, K. W.
Concept of a superconducting linac for low-velocity ions
[DE84-011740] 21 p3496 N84-32154
SHEPARD, N. F., JR.
Design and selection of bypass diodes 22 p3582 N84-32668
SHEPARD, R. L.
Response of installed temperature sensors
[DE83-015509] 02 p0224 N84-11471
SHEPELEV, Y. Y.
Physiological and ecological characteristics of the water fern, azolla pinnata, and prospects of using it in biological life-support system for man 02 p0261 N84-11709
Plant waste processing on a solid substrate for a biological life-support system for man 07 p1046 N84-16786
SHEPHARD, R. W.
Production networks: A dynamic model of production
[AD-A133571] 06 p0933 N84-16065
SHEPHER, A.
Representativeness of meteorological observations
[DE83-017699] 04 p0568 N84-13743
SHEPHER, J. R.
Thin flame model for reactive flow in porous materials
[DE84-011406] 20 p3150 N84-30002
SHEPHERD, B. R.
ICAM (Integrated Computer Aided Manufacturing) conceptual design for computer-integrated manufacturing. Volume 4, part 5, task D: Quality assurance/quality, control/technical requirement/tasks, quality assurance modeling and analysis, architecture for product assurance, (TTD)
[AD-A144691] 24 p3948 N84-34999
SHEPHERD, J. E.
Hydrogen-air detonations
[DE83-009289] 03 p0350 N84-12278
SHEPHERD, J. T.
Options and opportunities for standards: A NATO/AGARD viewpoint
[AD-P003577] 21 p3338 N84-31182
SHEPHERD, K. P.
The effects of blade mounted vortex generators on the noise from a MOD-2 wind turbine generator
[NASA-CR-172292] 08 p1227 N84-18017
Acoustic tests of the MOD-O/5A wind turbine rotor with two different ailerons
[NASA-CR-172427] 21 p3491 N84-32120
SHEPHERD, R.
VUV instrument calibrations for laser-plasma studies
[DE84-010507] 20 p3303 N84-30974
SHEPPARD, A. T.
A polytetrafluorethylene insulated cable for high temperature oxygen aerospace applications 11 p1723 N84-21238
SHEPPARD, C. G. W.
An investigation of the interaction between multiple dilution jets and combustion products 15 p2292 N84-24758
SHEPPARD, C. H.
Characterization of PMR polyimide resin and prepreg
[NASA-CR-168217] 11 p1636 N84-20695
SHEPPARD, J. C.
Emittance calculations for the Stanford linear collider injector
[DE83-011851] 02 p0290 N84-11904
Making electron beams for SLC linac
[DE84-012072] 20 p3293 N84-30907
Acceleration of high charge density electron beams in the SLAC linac
[DE84-012415] 21 p3497 N84-32161
SHEPPARD, J. S.
Design and development of an advanced solar array drive mechanism 09 p1294 N84-18457
SHEPPARD, N. F., JR.
A dielectric study of the Time-Temperature-Transformation (TTT) diagram of DGEBA epoxy resins cured with DDS (Diaminodiphenylsulfone)
[AD-A137358] 10 p1466 N84-19573
SHEPPHIRD, F. H.
Space station needs, attributes, and architectural options: Brief analysis
[NASA-CR-173695] 18 p2803 N84-27791
SHER, A.
HgCdTe surface and defect study program
[AD-A142342] 20 p3308 N84-31010
Theory of the electronic properties of mercury-cadmium-telluride alloys
[AD-A143426] 22 p3663 N84-33221
SHER, D. B.
Advanced Hough transform implementations
[AD-A132522] 04 p0589 N84-13890
SHERBY, O. D.
Superplastic bonding and ultrahigh carbon steel laminated composites
[AD-A137807] 11 p1627 N84-20651
SHERIDAN, A. E.
Study of aerodynamic technology for single-cruise-engine VSTOL fighter/attack aircraft, phase 1
[NASA-CR-166268] 18 p2788 N84-27693
SHERIDAN, M. F.
Experiments on water/melt explosions, nature of products, and models of dispersal 13 p2081 N84-23483
SHERIDAN, P. F.
A study of the aerodynamic interactions of the tail rotor and fin
[AD-A130757] 01 p0005 N84-10030
Investigation of operational and design factors resulting from main rotor and tail rotor interactions
[AD-A137710] 11 p1603 N84-20497
SHERIDAN, T. B.
Automation, supervisory control and workload in flight management
[NASA-CR-166474] 08 p1202 N84-17838

Interaction of human cognitive models and computer-based models in supervisory control
[AD-A142677] 20 p3265 N84-30717

SHERIF, T. S.
Contributions to the theory of quantum 1/f noise
08 p1236 N84-18082

SHERLOCK, J. F.
Zooming and smoothing images using convolution procedures
[AD-A135659] 09 p1372 N84-18957

SHERMAN, A.
NASA needs and trends in cryogenic cooling
06 p0818 N84-15329

SHERMAN, C.
A Gerdien condenser system for measuring stratospheric charged particle densities
[AD-A143317] 22 p3623 N84-32958

SHERMAN, D. J.
The cumulative exceedance distribution for accelerations due to turbulence encountered by a CT/4A air trainer
[AD-A135640] 09 p1258 N84-18211

SHERMAN, F. S.
Numerical modeling of turbulent flow in a channel
[NASA-CR-168278] 04 p0485 N84-13189

SHERMAN, J. M.
Small wind systems (field evaluation). Volume 4: Small wind system performance data
[DE84-006920] 14 p2173 N84-24014

SHERMAN, M.
Calculation of natural ventilation and comfort
[DE84-009215] 19 p3071 N84-29485

SHERMAN, M. L.
Electric Remotely Piloted Vehicle (ERPV)
[AD-A136201] 09 p1310 N84-18563

SHERMAN, M. P.
Experimental facilities to study hydrogen combustion and detonation
[DE84-008998] 20 p3149 N84-29997

SHERMAN, R.
Compressive strength and damage mechanisms in partially stabilized zirconia
[AD-A137513] 10 p1459 N84-19529

SHERMAN, W. F.
Spectroscopic research at high pressure and variable temperature
[AD-A143759] 23 p3713 N84-33537

SHERRILL, A. D.
A preliminary investigation on the application of robotics to missile fire control
[AD-A140369] 16 p2456 N84-25751

SHERRY, R. J.
Quality-assurance tests of five Y-12 Kevlar-49 spools used to fabricate strands and reliability specimens for stress-rupture tests
[DE84-012373] 21 p3357 N84-31295

SHERSHNEV, A. A.
Investigation of the state of materials in plasma deposition of refractory coatings
[BLL-M-35686-(5828.4)] 22 p3551 N84-32485

SHERSTYANKIN, P. P.
Investigating spatial distribution of phytoplankton in Lake Baykal by optical methods 19 p2976 N84-28868

SHERWOOD, A. R.
Space resolved absolutely calibrated VUV spectroscopic measurements on CTX
[DE84-007490] 20 p3304 N84-30984
Ohmic heating to 100-eV and helicity injection in CTX
[DE84-007494] 20 p3304 N84-30986

SHERWOOD, E. G.
Translation of field-reverse configurations in the FRX C/T experiment
[DE84-007489] 14 p2230 N84-24376
Internal magnetic field measurements in a translating field-reversed configuration
[DE84-010054] 20 p3284 N84-30854

SHERWOOD, J. N.
The influence of lattice imperfections on the chemical reactivity of solids. The growth and perfection of TNT (trinitro-toluene) single crystals
[AD-A140408] 16 p2560 N84-26425
The influence of lattice imperfections on the chemical reactivity of solids. The growth, perfection and defect properties of PETN (pentaerythritol tetranitrate) and RDX (cyclotrimethylene trinitramine) single crystals, part 1
[AD-A141271] 18 p2941 N84-28651
The influence of lattice imperfections on the chemical reactivity of solids. The growth, perfection and defect properties of PETN (pentaerythritol tetranitrate) and RDX (cyclotrimethylene trinitramine) single crystals, part 2
[AD-A141272] 18 p2941 N84-28652

SHERWOOD, R. J.
Overview of digital-image processing
[DE84-000156] 04 p0583 N84-13848

SHERWOOD, S. I.
Acidic deposition and the corrosion and deterioration of materials in the atmosphere: A bibliography, 1880 - 1982
[PB83-236091] 01 p0047 N84-10302

SHESHADRI, T. S.
Conditions for inflammation of accumulated aluminum in the propellant combustion zone
13 p1947 N84-22660

SHESTAKOV, A. D.
Fluctuations in chemical composition of titanium alloy Beta-solid solution in preseparation stage
12 p1786 N84-21650

SHESTAKOV, A. I.
Application of the implicit Fourier-expansion method to the calculation of three-dimension equilibria by the iterative method
[DE83-017621] 04 p0590 N84-13902

SHESTAKOV, A. S.
An approach for estimating the impact of carbon-reinforced plastic 24 p3868 N84-34515

SHESTOPALOV, V. P.
Scattering properties of partly screened dielectric sphere
[REPT-218] 17 p2662 N84-26983

SHETTER, R. E.
Chemiluminescent/laser diode measurement technique intercomparison and captive air measurement program
[PB84-134485] 11 p1661 N84-20839

SHETTLE, E. P.
Atmospheric transmittance/radiance: Computer code LOWTRAN 6. Supplement: Program listings
[AD-A137689] 11 p1706 N84-21123
Atmospheric transmittance/radiance: Computer code LOWTRAN 6
[AD-A137786] 11 p1707 N84-21126

SHEU, E.
Photon correlation spectroscopy and applications
22 p3683 N84-33352

SHEU, S. S.
On the Skorohod representation
24 p3955 N84-35041

SHEVAKIN, A. F.
Magnetic properties of interstitial phases in vanadium-oxygen system
[BLL-M-35386] 09 p1393 N84-19095

SHEVCHENKO, A. A.
Electrofilters from polymer materials
24 p3867 N84-34509

SHEVCHENKO, S. M.
Fracture of aluminum in uniaxial and biaxial extension at 473-77 deg K 12 p1783 N84-21635

SHEVCHENKO, V. I.
Beam plasma discharge and suprathermal electron tails 05 p0637 N84-14192

SHEVCHENKO, V. V.
Influence of conditions and medium of annealing on short-term strength and fatigue resistance of welded joints in OT4 titanium alloy 24 p3876 N84-34559

SHEVELEV, A. D.
Welding with alloying and ultrasonic treatment with an ion beam 12 p1786 N84-21652

SHEVELEV, Y. D.
Three-dimensional turbulent boundary layers at biellipticai bodies in stream of compressible gas at some angle of attack 17 p2648 N84-26936

SHEVTSOVA, N. F.
Structural features of polycrystalline ZnSe and solid solutions ZnSa sub I-x S sub x 12 p1788 N84-21659

SHEYKH-ZADE, E. R.
New data on upper mantle literal inhomogeneities in western Eurasia 17 p2703 N84-27217

SHEYKHALIYEV, S. M.
Obtaining metallic powders by ultrasonic atomization of melts 12 p1785 N84-21643

SHIAH, S. S.
Optical effects of the gravitationally induced concentration gradient in tricritical 3He-4He
[DE84-009972] 23 p3830 N84-34297

SHIAU, M. J.
A lifting surface theory in rotational flow
[NASA-CR-172233] 01 p0002 N84-10017

SHIBA, Y.
Shearing stability of lubricants
[NASA-TM-77435] 11 p1636 N84-20697

SHIBATO, Y.
An experimental study on the induced rolling moment due to wing-tail interference and roll-controllable two-stage rocket
[NAL-TR-793] 12 p1777 N84-21599

SHIBAYEV, V. P.
Impact of laser radiation on optical properties of polymer liquid crystal in phase transition range
20 p3286 N84-30868

SHIDELER, J. L.
Evaluation of a non-catalytic coating for metallic TPS
[NASA-TM-85745] 07 p0974 N84-16312

SHIEH, L. S.
Fast algebraic methods for multivariable control systems
[AD-A132719] 05 p0733 N84-14811

SHIELDS, D. R.
The OTEC (Ocean Thermal Energy Conversion) mooring technology
[PB83-221168] 01 p0060 N84-10396

SHIELDS, F. D.
Propagation of sound through a gas with an over-population of excited vibrational states
[AD-A134181] 07 p1070 N84-16950

SHIELDS, G. A.
Accretion disks, precessing jets and the asymmetric emission lines of QSOs
[NASA-CR-173832] 17 p2774 N84-27613

SHIELDS, N., JR.
Analysis and selection of a remote docking simulation visual display system
[NASA-CR-171148] 23 p3698 N84-33432

SHIELDS, P. C.
Study of finitistic channel models
[AD-A136139] 09 p1303 N84-18521

SHIELDS, R. R.
Water resources data for Montana, water year 1982. Volume 1: Hudson Bay Basin, Missouri River Basin
[PB84-117506] 09 p1339 N84-18749
Water resources data for Montana, water year 1982. Volume 2: Columbia River Basin
[PB84-118561] 09 p1340 N84-18752

SHIELDS, S. E.
Head-Up Display (HUD) technology demonstration
[AD-A134695] 08 p1104 N84-17180

SHIFLET, G. J.
Barriers to the migration of interphase boundaries
[AD-A137902] 11 p1633 N84-20679

SHIGANOV, I. N.
Increasing fusion efficiency in laser welding with dynamic beam focusing 23 p3710 N84-33516
Features of laser welding of AMg6 alloy
24 p3870 N84-34525

SHIGEI, Y.
Transmitting two-level balanced code within the bandwidth of straight binary code-transmission
13 p2039 N84-23231

SHIGERU, H.
Electronic 4-wheel drive control device
[NASA-TM-77618] 24 p3910 N84-34764

SHIH, A.
Fast turn-on osmium coated cathode
[AD-D011036] 19 p3018 N84-29134

SHIH, C. F.
Comparison of methods for calculating energy release rates
[DE84-012231] 20 p3204 N84-30350
Combined macroscopic and microscopic approach to the fracture of metals
[DE84-014670] 23 p3719 N84-33577

SHIH, J. N.
Investigation of the electrochemical formation of Li-C intercalation compounds
[AD-A130879] 01 p0037 N84-10233

SHIH, M. T.
Coupled diffusion and deformation theory: Hygrothermal stress distribution around crack-like defects
05 p0694 N84-14558
A generalized couple theory of hygrothermal-elasticity: Transient effects in composite laminate with circular cavity
[AD-A134376] 07 p0968 N84-16271

SHIH, N.
Polymerizations of acetylenes and cyclic olefins induced by metal-carbynes
[AD-A137090] 10 p1468 N84-19589

SHIH, Y. C.
Analysis of transmission lines on semiconductor substrate
[AD-A140711] 17 p2663 N84-26987
Computer-aided design of millimeter wave e-plane filters
[AD-A141016] 18 p2833 N84-27967

SHIHO, T.
Lunar exploration by polar orbiter
[NAL-TR-755] 09 p1416 N84-19265

SHIJIE, S.
Preliminary study of microtektites first discovered in the central Pacific by China
[NASA-TM-77470] 14 p2250 N84-24514

SHIJIE, Z.
Microanalytical study of some cosmic dust discovered in sea-floor sediments in China
[NASA-TM-77409] 16 p2504 N84-26068

SHIKANOV, A. S.
Dynamics of plasma corona on spherical targets irradiated by laser 20 p3288 N84-30878
Heating and implosion of spherical targets irradiated by laser 20 p3288 N84-30879
SHIKHMAN, V. M.
The measurement of acoustic emission parameters during hydraulic loading of the Novovorenezh AES reactor vessel VVER-1000
[DRIC-T-6998] 15 p2403 N84-25421
SHILO, N. A.
Determining density of upper mantle rocks 11 p1670 N84-20698
SHILOV, V. M.
Study of erythrocyte adhesion in cosmonauts 15 p2375 N84-25252
SHIMABUKURO, Y. E.
Forest inventory using multistage sampling with probability proportional to size
[E84-10144] 16 p2507 N84-26092
Forestry inventory based on multistage sampling with probability proportional to size
[INPE-2669-RPE/441] 23 p3763 N84-33855
SHIMADA, K.
Operation of a computer aided drafting system: improvement, results and hopes
[DE84-005176] 11 p1708 N84-21134
SHIMADA, M.
Measurements of microwave backscattering signatures of the ocean surface using X-band and Ka-band airborne scatterometer/radiometer system 23 p3771 N84-33907
SHIMADA, R.
Cyclic ST-AN codes and modular ST distance
[AD-P002367] 14 p2194 N84-24158
SHIMADE, M.
Fabrication of highly dense SiN4 ceramics without additives by high pressure sintering
[NASA-TM-77425] 16 p2470 N84-25829
SHIMAMOTO, F. Y.
Design of a safety monitor system for high explosives machining
[DE84-010101] 20 p3168 N84-30113
SHIMER, D. W.
Normal zone detectors for a large number of inductively coupled coils, revision 1
[DE84-011053] 21 p3392 N84-31526
Switching transients in a superconducting coil
[DE84-012592] 21 p3393 N84-31532
Alternative power supply and dump resistor connections for similar, mutually coupled, superconducting coils
[DE84-012602] 21 p3393 N84-31534
SHIMIZU, A.
An experimental study of helical guide-type rotating heat pipe 20 p3169 N84-30123
SHIMIZU, H.
Snow cover observations at Avalanche Research Station, Tokanbetsu, northern Hokkaido, 15 (1982-1983 winter) 23 p3762 N84-33844
SHIMIZU, R.
Energy dependence of the yields of ion-induced sputtering of monatomic solids
[IPPJ-AM-32] 07 p1076 N84-16992
SHIMIZU, S.
A study on airborne integrated display system and human information processing
[NASA-TM-77338] 06 p0891 N84-15789
SHIMKO, M. J.
An investigation of substrate effects on type two hot corrosion of marine gas turbine materials
[AD-A132833] 05 p0655 N84-14303
SHIMKUS, K. M.
Genetic types of geological bodies of sedimentary mantle (based on seismic profiling data) 18 p2861 N84-28165
SHIMMIN, W. L.
Preliminary design of a reuseable PPMHD (Pulsed Plasma MHD) power supply test bed facility
[AD-A144147] 24 p3965 N84-35108
SHIMODA, K.
Macroscopic plasma behavior and charged particle acceleration in the plasma focus 10 p1581 N84-20363
SHIMOJI, S.
Degradation of thermal shield materials in the space radiation environment 10 p1446 N84-19448
SHIMOTAKE, H.
New fabrication process for a tubular LiAl/FeS cell battery
[DE83-014305] 01 p0074 N84-10488
Advanced battery development in the US
[DE84-010505] 20 p3179 N84-30190
Thermal management of a lithium/iron-sulfide battery
[DE84-013436] 22 p3567 N84-32722
SHIMURA, M.
Solar cells of metal-free phthalocyanine dispersed in polyvinyl carbazole. 1: Effects of the recrystallization of H2PC on cell characteristics
[NASA-TM-77043] 07 p1025 N84-16639
SHIN, E. S.
Pressure-dependence of glass transition temperature of elastomeric glasses
[AD-A141485] 19 p2998 N84-28999
SHIN, K. G.
Characterization of real-time computers
[NASA-CR-3807] 20 p3277 N84-30801
SHIN, M. S.
Calculation of atmospheric transmittance by IBM 3033 computer code LOWTRAN IIIB
[AD-A132123] 04 p0604 N84-13989
SHIN, S. Y.
Periodic window, period doubling, and chaos in a liquid crystal bistable optical device 14 p2238 N84-24432
SHIN, Y. S.
Acoustic responses of coupled fluid-structure system by acoustic-structural analogy 10 p1510 N84-19883
Introduction to composite materials
[AD-A144274] 24 p3879 N84-34578
SHIN, Y. W.
Shock wave absorber having a deformable liner
[DE84-011308] 20 p3186 N84-30243
Shock wave absorber having apertured plate
[DE84-011271] 20 p3203 N84-30345
SHINAR, J.
Improved dynamic models for air combat analysis
[TAE-483] 06 p0905 N84-15876
SHINE, E. P.
Discrimination relative to measures of non-normality 03 p0393 N84-12566
SHINE, J. A.
Registration of a LANDSAT image to DTM (Digital Terrain Matrix): An error analysis
[AD-A141766] 19 p3041 N84-29297
SHINGLEDECKER, C. A.
Behavioral and subjective workload metrics for operational environments 11 p1696 N84-21065
SHINGLETON, J.
Study of systems and technology for liquid hydrogen production independent of fossil fuels
[NASA-CR-173422] 13 p1965 N84-22768
SHINKLE, K. D.
Mounting arrangement for an inertial measurement unit
[AD-D011148] 23 p3750 N84-33770
SHINODA, P.
Rotor/body aerodynamic interactions
[NASA-TM-85844] 02 p0174 N84-11143
SHINODA, Y.
Neurophysiological approaches to higher brain functions
[PB84-175769] 17 p2746 N84-27434
SHINOHARA, N.
Silicon carbide material sintered bodies manufacturing
[NASA-TM-77596] 24 p3878 N84-34574
SHINOZUKA, M.
Durability methods development, volume 7
[AD-A142400] 20 p3128 N84-29865
USAF durability design handbook: Guidelines for the analysis and design of durable aircraft structures
[AD-A142424] 20 p3128 N84-29866
SHIOTA, M.
Classification of Nash manifolds 14 p2211 N84-24274
SHIOZAKI, M.
Resin composition
[NASA-TM-77457] 10 p1451 N84-19477
SHIPE, J. A.
Project DELUGE: The development of a Holloman high speed test track heavy rainfield
[AD-A134810] 08 p1108 N84-17205
SHIPMAN, A.
Criteria for use of asphalt friction surfaces
[PB84-155613] 14 p2135 N84-23798
SHIPMAN, D. L.
Payload crew training complex simulation engineer's handbook
[NASA-TM-86465] 23 p3814 N84-34186
SHIRAI, M.
Experiment of a shockless transonic airfoil
[NAL-TR-783] 09 p1251 N84-18166
SHIRAKI, K.
Evaluation of modal testing techniques for spacecraft structures 10 p1513 N84-19906
SHIRANE, G.
Investigation of the paramagnetic phase of BCC iron using polarized neutron scattering
[DE84-002857] 07 p0974 N84-16315
Dynamics of itinerant ferromagnets above T sub c
[DE84-002695] 15 p2402 N84-25420
SHIRASAWA, T.
Fabrication and evaluation of a high density multi fiber plastic connector 11 p1720 N84-21223
SHIRATORI, N.
On applications of a specification and description language NESDEL to communication protocols 22 p3563 N84-32567
SHIRER, H. N.
The use of satellite data in understanding and predicting convective and large-scale dynamical processes 24 p3925 N84-34842
SHIREY, S. B.
Granitic rocks and metasediments in Archean crust, Rainy Lake area, Ontario: ND isotope evidence for mantle-like SM/ND sources 11 p1680 N84-20964
SHIRINKIN, V. A.
Determining the coefficient of heat transfer during the filtration of a heat-carrying agent through a coil
[BLL-M-35601-(5828.4)] 19 p3020 N84-29146
SHIRINYAN, P. A.
Simulator-probe for diagnostic testing of short-wave radio channels 22 p3567 N84-32595
SHIRLEY, D. A.
Direct determination of surface structures from photoelectron diffraction
[DE84-002572] 05 p0663 N84-14360
Angle-resolved photoemission extended fine structure
[DE84-002899] 08 p1236 N84-18080
SHIRLEY, J. W.
Hybrid space heating/cooling system with Trombe wall, underground venting, and assisted heat pump
[DE84-000406] 04 p0559 N84-13686
SHIRLEY, W. A.
Experimental investigation of elastic mode control on a model of a transport aircraft
[NASA-CR-3472] 18 p2792 N84-27721
SHIROUZU, M.
An experimental study on the induced rolling moment due to wing-tail interference and roll-controllable two-stage rocket
[NAL-TR-793] 12 p1777 N84-21599
SHIRSHEV, L. G.
Action of penetrating radiation on radio parts
[AD-A142107] 19 p3007 N84-29059
Ionizing emissions and electronics
[AD-A142065] 21 p3383 N84-31466
SHIRSHOV, P. P.
Dependence of crustal structure of eastern Pacific Ocean on its age 20 p3223 N84-30483
SHIRTZ, J. J.
Measurements of hypergolic fuels' and oxidants' permeation through commercial protective materials: Part 1. Inhibited red fuming nitric acid and unsymmetrical dimethylhydrazine
[AD-A134714] 08 p1139 N84-17411
SHIRYAYEV, Y.
Scientific, technical cooperation among CEMA member-countries urged 01 p0157 N84-11036
SHISHKINA, S. K.
Metabolic disturbances in man in an environment with low ammonia level and their correction by graded physical exercise 07 p1045 N84-16780
SHISHOV, V. A.
Construction of a model of the Venus surface and its use in processing radar observations
[NASA-TM-77298] 09 p1416 N84-19264
SHIU, Y. J.
Studies of new media radiation induced laser
[NASA-CR-173846] 21 p3408 N84-31616
SHIUE, J.
L band push broom microwave radiometer: Soil moisture verification and time series experiment Delmarva Peninsula
[E84-10084] 10 p1520 N84-19955
SHIVA, S. G.
Digital systems design language. Design synthesis of digital systems
[NASA-CR-162032] 19 p3073 N84-29499
SHIVAKUMAR, K. N.
Prediction of impact force and duration during low velocity impact on circular composite laminates
[NASA-TM-85703] 02 p0188 N84-11219
Buckling of a sublaminate in a quasi-isotropic composite laminate
[NASA-TM-85755] 09 p1275 N84-18325
Delamination growth analysis in quasi-isotropic laminates under loads simulating low-velocity impact
[NASA-TM-85819] 18 p2809 N84-27833
SHIVANANDAN, K.
The far infrared sky survey experiment
[AD-A131966] 03 p0461 N84-13037
SHIVELY, J.
The 60-GHz gyrotron development program
[DE83-012922] 02 p0214 N84-11402

Analysis of the output mode from 60 GHz, 200 kW pulsed and CW gyrotrons
[DE84-004586] 10 p1497 N84-19785
First 200 kW CW operation of a GHz gyrotron
[DE84-004573] 10 p1498 N84-19794

SHIVER, A. W.
Boolean computation of optimum hitting sets
[DE84-012920] 20 p3283 N84-30842

SHKABARDNYA, M.
Industry official on progress in Soviet robotics program
14 p2155 N84-23915

SHKLOVSKIY, I. G.
Stability of fuses under cyclic load
17 p2639 N84-26882

SHKURATNIK, V. L.
Emission effects of memory in rocks
17 p2705 N84-27227

SHKURATOV, Y. G.
Optical studies of moon rock samples at various degrees of maturity 19 p2975 N84-28861

SHLACHTER, J. S.
Initiation and accretion experiment on the HDZP
[DE84-009997] 18 p2933 N84-28601
High density Z pinch as a small low-energy fusion device
[DE84-009992] 21 p3502 N84-32198

SHLEZINGER, A. Y.
Genetic types of geological bodies of sedimentary mantle (based on seismic profiling data)
18 p2861 N84-28165

SHLICHTA, P. J.
Method and apparatus for minimizing convection during crystal growth from solution
[NASA-CASE-NPO-15811-1] 03 p0451 N84-12968
Absorbable-susceptor joining of ceramic surfaces
[NASA-CASE-NPO-15640-1] 13 p1962 N84-22748
Glass heating panels and method for preparing the same from architectural reflective glass
[NASA-CASE-NPO-15753-1] 23 p3723 N84-33589

SHMAKOV, V. A.
Dynamic stress in elastic areas developing upon interaction of intensive heat fluxes with solid bodies
24 p3873 N84-34545

SHMANENIKOV, V. N.
Effect of injection into boundary layer on flow of supersonic stream past oscillating cone
17 p2646 N84-26925

SHMELEV, L. S.
Production of porous sheets from metallic powders
[BLL-M-35465-(5828.4)] 12 p1796 N84-21713

SHMELEVA, A. M.
Biofeedback regulation of pulmonary ventilation
18 p2897 N84-28378

SHMIGOVSKAYA, V. V.
Effects of prolonged weightlessness on orchidaceae proteins 23 p3805 N84-34130

SHMILOVICH, A.
Calculation of transonic potential flow past wing-tail-fuselage configurations using the multigrid method 17 p2599 N84-26657

SHMYGANOVSKIY, V.
Cosmos-1500 SLR used for Arctic ice reconnaissance
09 p1265 N84-18258

SHMYGLEVSKIY, Y. D.
Inertial and shear flow 20 p3288 N84-30874

SHNEIDERMAN, B.
Evaluating multiple coordinated windows for programming workstations 13 p2027 N84-23146

SHNIRMAN, M. G.
Characteristic rock dimensions and hierarchical properties of seismicity 18 p2863 N84-28176

SHNITKIN, H.
Rebuttal to floating a satellite on microwaves
[AD-P003413] 19 p3016 N84-29117

SHNITNIKOV, A. S.
Correlational estimation of parameters of solid state microwave devices 22 p3570 N84-32609

SHOAEE, H.
Ideal of the perfect magnet-superconducting systems
[DE83-015080] 04 p0529 N84-13482

SHOCHET, M.
Trigger systems which could operate at a luminosity of 10/sup 33 cm(-2) to sec/sup -1
06 p0911 N84-15918

SHOCKEY, D. A.
Microkinetics of stress-corrosion cracking in stem-turbine disc alloys
[DE83-902290] 01 p0048 N84-10307
Response of cracks in structural materials to short pulse loads
[AD-A131565] 02 p0231 N84-11519
Short pulse fracture mechanics
[AD-P003105] 16 p2467 N84-25810
Dynamic fracture behavior of structural materials
[AD-A140381] 16 p2502 N84-26060

SHOEMAKER, E. M.
Evolution of the Uranus-Neptune planetesimal swarm: Consequences for the Earth 13 p2074 N84-23445
Impact of Upheaval Dome, Utah
13 p2078 N84-23465

SHOEMAKER, R. L.
Thermophysical property determination using transient techniques
[AD-A130707] 01 p0156 N84-11027
Specific heat of octahydro-1,3,5,7tetranitro-1,3,5,7-tetrazocine (HMX)
[AD-A134564] 07 p0966 N84-16260

SHOEMAKER, W. L.
The nonlinear dynamics of spinning paraboloidal antennas 21 p3476 N84-32033

SHOENBERGER, J. S.
Fuel-resistant coating and binders for porous friction surface pavements: Tests and analyses
[AD-A139865] 15 p2317 N84-24907

SHOJI, T.
Experimental studies on plasma confinement in Nagoya bumpy torus
[IPPJ-655] 10 p1580 N84-20355

SHOLEEM, C. M.
Surplus Facilities Management Program. Post-remedial-action survey report for SNAP-8 Experimental Reactor Facility, building 010 site, Santa Susana Field Laboratories, Rockwell International, Ventura County, California
[DE84-009591] 21 p3497 N84-32165

SHOLETTE, W. P.
Testing, data analysis and engineering services on lead-acid load leveling batteries
[DE84-011523] 20 p3180 N84-30198

SHOLPO, L. N.
Simulation of cerebrocranial trauma for evaluation and development of gear to protect pilots against impacts
02 p0259 N84-11695

SHOMBER, H. A.
Integrated Application of Active Controls (IAAC) technology to an advanced subsonic transport project: Current and advanced act control system definition study, volume 1
[NASA-CR-165631-VOL-1] 19 p2967 N84-28802
Integrated Application of Active Controls (IAAC) technology to an advanced subsonic transport project: Current and advanced act control system definition study. Volume 2: Appendices
[NASA-CR-165631-VOL-2] 19 p2967 N84-28803
Integrated Application of Active Controls (IAAC) technology to an advanced subsonic transpot project-demonstration act system definition
[NASA-CR-165920] 19 p2967 N84-28804

SHONG, Y.
Preliminary study of microtektites first discovered in the central Pacific by China
[NASA-TM-77470] 14 p2250 N84-24514

SHONTING, D. H.
Observations of sea surface conditions during WEAP (Weapons Environmental Acoustics Program) experiment, May 1982: An example of real-time monitoring of the upper ocean environment
[AD-A140021] 15 p2374 N84-25241

SHOOSMITH, J. N.
Computer-Aided Geometry Modeling
[NASA-CP-2272] 12 p1869 N84-22179

SHOPE, S. L.
IBEX: Annular beam propagation experiment
[DE84-000456] 04 p0599 N84-13954
Autogenerator of beams of charged particles
[DE84-014242] 22 p3654 N84-33163
Experimental investigation of certain beam transport issues in a pulsed transmission line linear accelerator
[DE84-011191] 22 p3654 N84-33164

SHOR, S. W. W.
Informative stopping rules
[AD-A140599] 17 p2758 N84-27507

SHORE, J.
Multisignal Minimum-Cross-Entropy spectrum analysis weighted priors
[AD-A132358] 04 p0589 N84-13896
A standard organization for specifying abstract interfaces
[AD-A143787] 23 p3815 N84-34194

SHORE, J. E.
On a relation between Maximum-Likelihood classification and Minimum-Cross-Entropy classification
[AD-A132237] 04 p0521 N84-13426
Isolated-word speech recognition using multi-section vector quantization code books
[AD-A144433] 24 p3895 N84-34665

SHORE, M. J.
Short period P-wave attenuation in the middle and lower mantle of the Earth 05 p0706 N84-14633

SHORE, R. A.
On the odd-symmetry of minimum phase-only perturbations
[AD-A130514] 01 p0131 N84-10660
The use of a beam space representation and nonlinear programming in phase-only nulling
[AD-A131365] 02 p0272 N84-11779
Phase-only nulling at symmetric pattern locations
[AD-A133128] 06 p0822 N84-15361
Reflector antennas with low sidelobes, low cross polarization, and high aperture efficiency
[NASA-CR-174670] 21 p3383 N84-31464

SHORES, P. W.
Doppler radar having phase modulation of both transmitted and reflected return signals
[NASA-CASE-MSC-18675-1] 13 p1975 N84-22820

SHORSHOROV, M. K.
Features of physiochemical reaction in aluminum-boron composite material 12 p1783 N84-21636
Certain features of a vacuum magnetic-impulse welding process 12 p1787 N84-21656

SHORT, D.
The mechanical properties of carbon fibre with glass fibre hybrid reinforced plastics 21 p3357 N84-31292

SHORT, D. A.
Nimbus 7 SMMR derived seasonal variations in the water vapor, liquid water and surface winds over the global oceans
[NASA-TM-86080] 16 p2528 N84-26233

SHORT, L. O.
A field study of Air Force organization structures
[AD-A142389] 20 p3312 N84-31035

SHORT, N. M.
The Heat Capacity Mapping Mission (HCMM) anthology
[E84-10051] 05 p0895 N84-14563
Assessment of computer-based geologic mapping of rock units in the LANDSAT-4 scene of northern Death Valley, California 20 p3214 N84-30416

SHORT, R.
Observation of scattered light between Omega-2 and 3/2-Omega in short wavelength laser produced plasmas
[DE84-012533] 20 p3306 N84-31001
How useful are odd-integer half-harmonics
[DE84-012392] 21 p3501 N84-32190

SHORT, R. W.
Nonlocal heat transport by non-Maxwellian electrons
[DE84-012391] 20 p3306 N84-31000
A new model of Raman spectra in laser produced plasma
[DE84-012487] 20 p3307 N84-31005
A new model of Raman spectra in laser produced plasma
[DE84-009625] 21 p3501 N84-32188

SHORT, S. K.
Climatic reconstructions in the North American arctic during the last 6000 years
[DE83-015836] 02 p0256 N84-11677

SHORTAL, J. P., III
Effects of head impact acceleration on human performance: Overview and preliminary battery identification
[AD-A130286] 01 p0116 N84-10754

SHOSHANI, A.
Research topics in statistical database management
[DE84-002581] 06 p0935 N84-16080

SHOSTAK, R. E.
Investigation, development, and evaluation of performance proving for fault-tolerant computers
[NASA-CR-166008] 15 p2385 N84-25307
STP: A mechanized logic for specification and verification 15 p2386 N84-25308
Hierarchical design and verification for VLSI
15 p2388 N84-25323

SHOTOV, A. P.
Picosecond parametric optical oscillator with amplification of radiation from tunable semiconductor laser 21 p3487 N84-32097

SHOTT, J.
Research in VLSI systems. Heuristic programming project and VLSI theory project. A fast turn around facility for very large scale integration (VLSI)
[AD-A134809] 08 p1151 N84-17494

SHOU, J. K.
Study of abullated bed fluid dynamics
[DE84-010230] 20 p3187 N84-30251

SHOUCRI, M. M.
Ohmic heating of the polar f-region by HF (High Frequency) pulse
[AD-A135946] 09 p1345 N84-18789

SHOUP, J.
Preliminary analysis of automatic speech recognition and synthesis technology
[AD-A138976] 13 p1983 N84-22877

SHOW, R. S.
Mathematical modeling of longitudinal profile adjustment in alluvial streams 21 p3425 N84-31726

SHOWALTER, J. G.
Technical information support for survivability 10 p1508 N84-19868

SHOWALTER, M. R.
The puzzling dynamics of Saturn's F-ring 19 p3119 N84-29827

SHOWELL, M. S.
In vitro chlorophyll photosynthetic reaction [PB84-104892] 06 p1198 N84-17810

SHOYA, L. D.
Joint analysis of the data obtained by detecting the general, muon, and neutron components of cosmic ray intensity on May 7, 1978 24 p3993 N84-35270

SHPAK, M.
Results from first series of Elektrotopograf experiments 12 p1774 N84-21570

SHPARK, M. B.
Heart rhythm changes in response to sensorimotor load of varying complexity 21 p3452 N84-31908

SHPILTAYN, E. E.
Economics of installation of solar heating plants 17 p2641 N84-26896

SHPIRO, P. I.
Spectrum of phase fluctuations during probing of ionosphere 18 p2822 N84-27916

SHPOTIN, I. S.
Different sensitivity of s- and d-electron energy levels to a change in lattice parameters in transition metals [BLL-M-35116-(5828.4)] 01 p0151 N84-10996

SHREEVE, J. M.
Improved acid electrolytes for fuel cells [PB84-179779] 16 p2519 N84-26173

SHREYDER, A. A.
Changes in relative instantaneous spreading rates in the Indian Ocean 18 p2858 N84-28149

SHRIVER, D. F.
Chloride ion conductivity in a plasticized quaternary ammonium polymer [AD-A135373] 08 p1124 N84-17305
Stoichiometric CO reduction by supported metal carbonyls [PB84-175025] 16 p2474 N84-25862

SHROBE, H., JR.
Custom integrated circuits 22 p3684 N84-33361

SHROCK, R.
Future search for grand unified theory magnetic monopoles [DE83-009451] 06 p0926 N84-16015

SHTEINBERG, A. S.
Calculation of critical temperatures and correlation parameters in binary alloys by the method of BBGKI equations [BLL-M-35200-(5828.4)] 01 p0042 N84-10272
Calculation of short-range-order structures in Cu-14.5 percent (atom.) Al [BLL-M-35115-(5828.4)] 01 p0152 N84-10997
Method of high-temperature expansions in short-range order theory [BLL-M-35385-(5828.4)] 08 p1129 N84-17344
Determination of the mixing potential in alloys from experimental data on short-range order [BLL-M-35496-(5828.4)] 12 p1795 N84-21709

SHTEYNSHLEYGER, V. B.
Nonlinear scattering of radio waves by metal objects 21 p3478 N84-32049

SHTUYKIS, V. A.
Automated inspection of analog-digital standard replacement components 18 p2824 N84-27927

SHU, H. H.
Reflections on representing non-geometric data 12 p1874 N84-22216
Modeling concepts for communication of geometric shape data 12 p1875 N84-22217

SHU, J. Y.
Computer program documentation for a subcritical wing design code using higher order far-field drag minimization [NASA-CR-3457] 19 p2957 N84-28740

SHUART, M. J.
Hole interaction and load introduction effects for compression-loaded laminates with holes [NASA-TM-86267] 22 p3544 N84-32435

SHUBA, B. H.
An investigation of tip-wall vortex cavitation in an axial-flow pump [AD-A134357] 07 p1002 N84-16496

SHUBERT, B. O.
Some probability models related to classical occupacy with possible applications to tactical analysis [AD-A131056] 01 p0137 N84-10898

SHUBERT, K. A.
Detection of electromagnetic radiation leakage through small structural openings [AD-A137407] 10 p1479 N84-19667

SHUCHMAN, R. A.
SAR calibration: A technology review 07 p0988 N84-16399
Measurement of ocean surface winds by SEASAT synthetic aperture radar [AD-A138392] 12 p1836 N84-21971
SAR imagery of ocean-wave swell traveling in an arbitrary direction 17 p2714 N84-27278
Modeling of SAR signatures of shallow water ocean topography 17 p2718 N84-27302
Analysis of SEASAT SAR imagery collected during the JASIN experiment [AD-A140584] 17 p2721 N84-27320
The use of satellite and aircraft SAR to detect and chart hazards to navigation [AD-A141658] 19 p3041 N84-29296
Remote sensing of the marginal ice zone during Marginal Ice Zone Experiment (MIZEX) 83 23 p3772 N84-33910
SAR measurement of sea ice properties during Marginal Ice Zone Experiment (MIZEX) 83 23 p3772 N84-33911

SHUDDE, R. H.
An analysis of the satellite kinematics model in the Naval Warfare Gaming System [AD-A134039] 05 p0643 N84-14229
A multiple leg TMA (Target Motion Analysis) procedure with programs for the Hewlett-Packard HP-41CV, the Hewlett-Packard HP-75C, the sharp pC-1500 (TRS-80 pC and the Radio Shack TRS-80 model 100 portable computers [AD-A134870] 08 p1213 N84-17912
Position determination with Loran-C triplets using the Hewlett-Packard HP-57C, the Sharp PC-1500 (TRS-80 PC-2) or the Radio Shack TRS-80 model 100 portable computers [AD-A137009] 10 p1426 N84-19327

SHUEN, J. S.
A theoretical and experimental study of turbulent particle-laden jets [NASA-CR-168293] 04 p0485 N84-13187
Predictions of spray combustion interactions 11 p1609 N84-20532
The structure of evaporating and combusting sprays: Measurements and predictions [NASA-CR-173778] 19 p3021 N84-29155
A theoretical and experimental study of turbulent nonevaporating sprays [NASA-CR-174668] 20 p3130 N84-29877
A theoretical and experimental study of turbulent evaporating sprays [NASA-CR-174760] 22 p3536 N84-32390

SHUFORD, A.
Computer generation of plan of action and milestone schedule [AD-A137057] 10 p1564 N84-20244

SHUFORD, R. J.
Characterization of cumulative damage in composites during service 01 p0033 N84-10210

SHUGAN, I. V.
Speckle statistics in radar images of sea surface obtained with horizontal polarization 18 p2823 N84-27921

SHUGAR, T. A.
An investigation of the indirect boundary element method in One- and two-dimensional elastostatics [AD-A133142] 06 p0900 N84-15843

SHUGART, H. H.
Computer implementation of a globally averaged model of the world carbon cycle [DOE/NBB-0062] 23 p3793 N84-34055

SHUKHOLUTSKIY, Y. A.
Dynamic stifness of closed gas-static bearing with regulator 13 p1968 N84-22774

SHUKLA, J.
Predictabilty of time averages: The influence of the boundary forcing [NASA-TM-85092] 02 p0248 N84-11624
Interannual variability of Indian monsoon rainfall 12 p1855 N84-22081
The simulation of transient statistics of the Southern Hemispheric circulation by the GLAS seasonal cycle model: Preliminary results 12 p1855 N84-22082
Ocean fluxes simulated by the GLAS GCM 12 p1855 N84-22085
Forced stationary solutions in a barotropic channel: Multiple equilibria and theory of nonlinear resonance 12 p1856 N84-22089
GCM sensitivity to 1982 - 1983 equatorial Pacific sea surface temperature anomalies 12 p1858 N84-22106
Impact of prescribed diabatic heating on short range weather forecasts 12 p1858 N84-22107

SHUKLA, S. D.
An investigation into the sand erosion technique as a means of determining the wind environment around buildings [BU-294] 15 p2306 N84-24832

SHULAIYA, T. V.
Solution of direct three-dimensional problems in gravimetry and magnetometry with arbitrary continuous laws of density and magnetization distribution 18 p2861 N84-28169

SHULL, J. M.
Grain destruction in interstellar shocks 16 p2569 N84-26487
Grain destruction in interstellar shocks 18 p2947 N84-28685

SHULMAN, S.
The 3-10 keV and 0.1- to 2-MeV observations of 4 gamma-ray bursts [DE84-001334] 05 p0766 N84-15022

SHULMAN, Y. I.
Heart rhythm changes in response to sensorimotor load of varying complexity 21 p3452 N84-31908

SHULZHENKO, Y. B.
G suit of bladderless type as a means of improving orthostatic stability after water immersion hypokinesia nd exposure to accelerations 07 p1045 N84-16775
Adaptive effects of repeated immersion on man 15 p2376 N84-25258

SHUM, P. T.
The instability of axisymmetric supersonic jet impinging on flat plate [BU-287] 15 p2256 N84-24546

SHUMAN, B. M.
Space systems environmental interactions technology program [AD-P002125] 16 p2525 N84-26211

SHUMATE, M. S.
Remote measurements of ozone, water vapor and liquid water content, and vertical profiles of temperature in the lower troposphere [NASA-CR-173208] 07 p1033 N84-16704
Demonstration of an active airborne IR laser system for geologic remote sensing 23 p3782 N84-33984

SHUMPERT, B. L.
Estimation of small area populatons using remote sensing and other approaches [DE84-003404] 08 p1178 N84-17678

SHUMSKIY, V. V.
Gasdynamic study of model with combustion in shock tunnel 21 p3481 N84-32061

SHUNLIN, Z.
Flow mechanism and experimental investigation of a rotating stall in transonic compressors [NASA-TM-77373] 06 p0782 N84-15122

SHUR, L. A.
Investigating spatial distribution of phytoplankton in Lake Baykal by optical methods 19 p2976 N84-28868

SHUR, M.
Electron ballistic effects in III-V semiconductors [AD-A135353] 08 p1235 N84-18072

SHUSTIN, E. G.
Modeling of beam-plasma discharge in the laboratory 05 p0638 N84-14200

SHUTOV, M. D.
Mass spectrometers for studying the ionic and neutral composition of the upper layers of the atmosphere [AD-A141011] 18 p2879 N84-28282

SHUTTE, N. M.
On the stimulated precipitation of electrons and the mechanism of wave generation in the whistler range in the ARAKS experiment 05 p0637 N84-14190

SHUTTLEWORTH, W. J.
Daily variations of temperature and humidity within and above Amazonian forest [INPE-3196-PRE/560] 21 p3447 N84-31869
Observations of radiation exchange above and below Amazonian forest [INPE-3194-PRE/558] 21 p3447 N84-31870

SHUYKINA, E. Y.
Clinical-immunological spectrum of Leishmaniases 17 p2741 N84-27404

SHUYNOV, A. V.
Supersonic three-dimensional jet flow in channel 17 p2646 N84-26928

SHUYUAN, L.
The effects of non-metallic inclusions in steel on fatigue properties 20 p3160 N84-30070

SHVAYKO, I. I.
Animal sensitivity to super-high frequency electromagnetic fields in correlation to age 07 p1043 N84-16766

SHVAYSHTEYN, Z. I.
Some parameters characterising the icing of ships from spray
[BLL-MO-TRANS-1570-(9022.552)] 08 p1190 N84-17753
SHVETS, A. I.
Separation flow at concave conical wings 17 p2647 N84-26933
SHYMAN, C. S.
Westinghouse uses USAF-developed standards
[AD-P003572] 21 p3338 N84-31177
SHYNK, J.
Fast algorithms for improved speech coding and recognition
[AD-A137569] 11 p1643 N84-20740
SHYR, H. J.
Some algebraic properties of the monoid of languages and its applications 24 p3955 N84-35040
SHYU, C. M.
Characterization of grain boundaries in silicon
[NASA-CR-173459] 12 p1912 N84-22460
SI, H. Y.
Suppression of finite-amplitude effects in sloshing modes in cylindrical cavities
[AD-A140652] 17 p2758 N84-27509
SIA, E. B.
Communication networks 22 p3683 N84-33356
SIAMAK, K.
Use of LANDSAT MSS (multispectral scanner) digital data in water quality mapping of the Neuse River estuary, North Carolina
[PB83-256750] 06 p0867 N84-15645
SIANI, R. D.
A computer code to calculate emission and transmission of infrared radiation through non-equilibrium atmospheres
[AD-A137162] 11 p1683 N84-20980
SIAS, F. R., JR.
Sensor control of robot arc welding 06 p0931 N84-16047
SIBBETT, W.
Circular-scan photochron streak camera for spaceborne laser ranging applications 24 p3906 N84-34741
SIBILIA, C.
Bistability in optical waveguides 14 p2239 N84-24436
SIBLEY, W. A.
Study of defects produced by the growth, post treatment and fabrication of quartz
[AD-A138327] 12 p1914 N84-22471
Study of defects produced by the growth, post treatment and fabrication of quartz
[AD-A139834] 15 p2413 N84-25485
SIBOLD, K.
Chiral anomalies and differential geometry
[DE84-004637] 11 p1717 N84-21200
SICARD, A. J.
Evaluation of type 2 fast packs for electrostatic discharge properties
[AD-A133158] 06 p0853 N84-15557
Redesigned of T-38 displacement gyroscope pack
[AD-A138047] 12 p1770 N84-21544
SICHEL, M.
Structure and characteristics of heterogeneous detonation
[AD-A134492] 07 p1002 N84-16497
SICKAFUS, K.
Observation of the effect of solute segregation on grain boundary structure
[DE84-002964] 07 p0975 N84-16319
SICONG, R.
Acta Aeronautica et Astronautica Sinicia (selected articles)
[AD-A137150] 11 p1599 N84-20475
SIDDIGUI, E. U. A.
Permanent magnet generator rotor containment study
[AD-A131252] 01 p0138 N84-10908
SIDDIQI, S.
Phased-array-fed antenna configuration study. Volume 1: Technology assessment
[NASA-CR-168231] 07 p0991 N84-16423
Phased-array-fed antenna configuration study, volume 2
[NASA-CR-168232] 07 p0991 N84-16424
SIDES, J.
Implicit time dependent methods for the solution of the Euler equations. Part 2: Application to transonic flows 16 p2492 N84-25990
SIDES, N. T.
Mechanical face seal technology: A literature survey
[AD-A138434] 12 p1822 N84-21881
SIDFORD, M. J.
Influence of the airframe on the performance of antennas for avionics 03 p0364 N84-12372
SIDI, A.
Acceleration of convergence of vector sequences
[NASA-TP-2193] 04 p0588 N84-13885
SIDKO, A. F.
Investigating spatial distribution of phytoplankton in Lake Baykal by optical methods 19 p2976 N84-28868
SIDKO, F. Y.
Investigating spatial distribution of phytoplankton in Lake Baykal by optical methods 19 p2976 N84-28868
SIDMAN, K. R.
Heat sealable, flame and abrasion resistant coated fabric
[NASA-CASE-MSC-18362-2] 05 p0658 N84-14324
Heat resistant protective hand covering
[NASA-CASE-MSC-20261-2] 13 p2022 N84-23113
Heat resistant protective hand covering
[NASA-CASE-MSC-20261-1] 18 p2915 N84-28484
SIDNELL, N. A.
Estimating reliability of an electrical insulating system
[DE84-010633] 18 p2834 N84-27993
SIDNER, C.
Research in knowledge representation for natural language understanding
[AD-A134102] 05 p0726 N84-14765
SIDORAK, L. G.
High speed, low cost, LEO-thermal-cycling facility 19 p3048 N84-29340
SIDORENKOV, N. S.
Nonuniformity of the Earth's rotation and the motion of the poles
[NASA-TM-77337] 06 p0877 N84-15709
SIDORENKOVA, E. S.
The effect of various carbon sources on the growth of single-celled cyanophyta
[NASA-TM-77090] 08 p1197 N84-17804
SIDOROV, V. A.
New types of transient processes observed in electromagnetic sounding 18 p2860 N84-28164
SIDOROV, V. N.
Condensational variability of scattering phase function 17 p2707 N84-27240
SIDWELL, K. W.
PAN AIR: A computer program for predicting subsonic or supersonic linear potential flows about arbitrary configurations using a high order panel method. Volume 2: User's manual (version 1.1)
[NASA-CR-3252] 18 p2788 N84-27698
PAN AIR summary document (version 1.0)
[NASA-CR-3250] 19 p2957 N84-28741
SIEBEL, J. E.
NSI-1 Squib adapter development and final test report for usage on space shuttle gas sampler valve/bottle assembly 3270
[NASA-CR-171735] 08 p1161 N84-17556
SIEBENALLER, W.
High power bogie for 350 km/h. Design and definition
[MBB-UD-376-OE] 05 p0687 N84-14516
SIEBENECK, J.
Predevelopment of IR-CCD components
[BMFT-FB-T-83-133] 03 p0456 N84-13001
SIEBER, A.
Comparative geologic analysis of LANDSAT and Schuttle Imaging Radar (SIR)-A images of the Adrar des Iforas area in NE Mali 23 p3769 N84-33895
Compact receivers for Shuttle Imaging Radar (SIR)-B SAR mission 23 p3778 N84-33953
SIEBER, A. J.
Approaches to radar image interpretation 08 p1177 N84-17669
Simulation of Shuttle Imaging Radar (SIR)-B imagery over Freiburg test site 23 p3779 N84-33958
SIEBER, M.
Experimental investigation of channel meandering
[REPT-5/1983] 09 p1336 N84-18724
Experimental investigations of rivulet meanders
[MPIS-5/1983] 13 p2006 N84-23015
SIEBERS, D. L.
Experimental mixed-convection heat transfer from a large, vertical surface in a horizontal flow
[DE83-016419] 03 p0373 N84-12429
Experimental mixed convection heat transfer from a large vertical surface in a horizontal flow 06 p0832 N84-15412
Experimental mixed convection heat transfer from a large, vertical surface in a horizontal flow
[HMT-36] 14 p2146 N84-23864
SIEBERT, C. J.
Passive Sun seeker/tracker and a thermally activated power module 15 p2348 N84-25089
SIEBERT, W. M.
Communications biophysics 22 p3684 N84-33362
SIECHAU, R.
Investigation of inhomogeneity in ceramic reactor materials using laser-localized emission spectroscopy
[JUEL-1834] 03 p0357 N84-12323
SIEDLE, A. R.
Raman spectroscopic study of acetylene on supported rhodium catalysts
[AD-A144099] 23 p3714 N84-33544
SIEFERT, J. G.
Nitramine propellant crack tip ignition and crack propagation of a burning sample under rapid pressurization
[AD-A141246] 18 p2811 N84-27848
SIEGART, C. D.
Development and flight evaluation of an augmented stability active controls concept with a small horizontal tail
[NASA-CR-165951] 19 p2967 N84-28805
SIEGEL, B.
Evaluation of propellent tank insulation concepts for low-thrust chemical propulsion systems: Executive summary
[NASA-CR-168321] 11 p1636 N84-20609
SIEGEL, C. M.
Epitaxial thinning process
[NASA-CASE-NPO-15786-1] 24 p3966 N84-35112
SIEGEL, E. N.
National Aeronautics and Space Act of 1958, as amended and related legislation
[GPO-24-491] 03 p0460 N84-13032
SIEGEL, G. H.
Fiber optic magnetometer for the detection of dc magnetic fields without hysteretic ambiguity
[AD-D011085] 22 p3599 N84-32794
SIEGEL, H. J.
A versatile parallel image processor system
[AD-A136292] 09 p1365 N84-18910
A distributed memory management system for PASM
[AD-A141360] 19 p3072 N84-29487
SIEGEL, M. A.
Manufacturing developments to reduce strategic materials usage 23 p3703 N84-33475
SIEGEL, P. H.
Topics in the optimization of millimeter-wave mixers
[NASA-TP-2287] 11 p1645 N84-20758
SIEGEL, S.
A flutter optimization program for complete aircraft structural design 02 p0172 N84-11134
SIEGFRIED, J. B.
ERG (Electroretinogram) implicit time: An exploration of high frequency wavelets recorded in the human visual system
[AD-A134575] 08 p1201 N84-17832
SIEGMAN, A. E.
Report of significant accomplishments. Joint services electronics program of the Edward L. Ginzton laboratory
[AD-A133360] 07 p0998 N84-16469
Measurement techniques using ultrashort optical pulses
[DE84-009241] 19 p3105 N84-29728
Laser physics and laser techniques
[AD-A143538] 22 p3601 N84-32609
SIEGMANN, W. L.
Influence of horizontally-random bottom structure on acoustic intensity in a shallow ocean
[AD-A141383] 19 p3099 N84-29688
SIEGMON, G.
Measurement of heavy cosmic-ray nuclei on LDEF
[M0002-2] 15 p2276 N84-24664
SIEGMUND, D.
Corrected diffusion approximations and their applications
[AD-A136384] 09 p1374 N84-18974
SIEGRIST, K.
Statistical analysis of a debugging model 06 p0931 N84-16048
SIEKHAUS, W. J.
Modeled heating and surface erosion comparing mottle (gas borne) and stationary (surface coating inert particle additives
[DE83-000597] 01 p0080 N84-10521
Erosive particle kinematics in the turbulent combustion boundary layer contacting a solid wall
[DE83-010594] 03 p0349 N84-12272
SIELKEN, R. L., JR.
Area estimation using multiyear designs and partial crop identification
[E84-10151] 16 p2509 N84-26099
SIEMEN, D.
Laser range finding technology for space to space applications. Volume 1: Laser diode range finder functional model
[MBB-UR-608-83-O-VOL-1] 09 p1324 N84-18648
SIEMENS, D. H.
Vitrification of highly-loaded SDS zeolites
[DE83-006198] 02 p0292 N84-11915
SIEMER, D. D.
Improved graphite furnace atomizer
[DE84-011091] 20 p3190 N84-30263

SIEMER, J.
Solar energy. M.A.N. systems and their efficiency
23 p3791 N84-34045
Wind energy. M.A.N. systems and their efficiency
23 p3791 N84-34046
SIEMERS, P. M., III
Shuttle flight pressure instrumentation: Experience and lessons for the future
01 p0026 N84-10167
SIEMON, R. E.
Parameters of a possible FRC adiabatic compression experiment
[DE84-007487] 14 p2230 N84-24371
Translation of field-reverse configurations in the FRX C/T experiment
[DE84-007489] 14 p2230 N84-24376
Internal magnetic field measurements in a translating field-reversed configuration
[DE84-010054] 20 p3284 N84-30654
SIENKO, M. J.
Thin film synthesis of superconducting chemical compounds
[AD-A142541] 20 p3148 N84-29992
SIERADZKI, K.
Electrochemical kinetics in stress-corrosion cracks
[DE84-002855] 07 p0976 N84-16323
SIERAKOWSKI, R. L.
Impact loading in filamentary structural composites
10 p1506 N84-19857
SIEVERDING, C. H.
Effects of a skewed inlet end wall boundary layer on the 3-D flow field in an annular turbine cascade
07 p0956 N84-16202
SIEVERS, G. K.
Fuel savings potential of the NASA Advanced Turboprop Program
[NASA-TM-83736] 20 p3130 N84-29878
SIEVERS, G. L.
Research on nonparametric methods for linear models
[AD-A135850] 09 p1377 N84-18992
On the robust rank analysis of linear models with nonsymetric error distributions
[AD-A135792] 09 p1377 N84-18994
Robust estimation based on Walsh averages for the general linear model
[AD-A136187] 09 p1378 N84-19004
A robust multiple correlation coefficient for the rank analysis of linear models
[AD-A135866] 09 p1383 N84-19030
Testing hypotheses in linear models with weighted rank statistics
[AD-A135759] 09 p1383 N84-19032
SIEVERS, J.
Contributions to imaging quality and heighting accuracy of aerial cameras used at fairly high altitudes
19 p3040 N84-29284
SIEVERS, R. E.
Innovative detection, separation and sampling techniques for trace analysis by gas chromatography
[AD-A140974] 18 p2811 N84-27842
SIEWIOREK, D. P.
Software voting in asynchronous NMR (N-Modular Redundancy) computer structures
[NASA-CR-174488] 03 p0418 N84-12732
A summary of fault tolerant computing research at Carnegie Mellon University
[AD-A142707] 20 p3273 N84-30777
SIGAREV, A. A.
Investigation of Bragg reflection of electromagnetic surface waves by diffraction grating
21 p3479 N84-32053
SIGINER, A.
Flow and free surface of a non-Newtonian fluid between concentric cylinders maintained at unequal temperatures
15 p2315 N84-24893
SIGLER, J. D.
Pacific barrier radar 3 (PACBAR 3)
[AD-A133790] 05 p0668 N84-14392
SIGMAN, R. K.
Conditions for inflammation of accumulated aluminum in the propellant combustion zone
13 p1947 N84-22660
Combustion of ammonium perchlorate-polymer sandwiches
[AD-A139873] 15 p2302 N84-24814
SIGMAR, D. J.
Effects of neutral beam injection on impurity transport in Tokamaks
[DE84-001857] 05 p0750 N84-14926
Rotation and impurity transport in a Tokamak plasma with directed neutral beam injection
[DE84-008014] 20 p3306 N84-30996
SIGMON, T. W.
Comparison of thermal, line-source electron beam and CW laser annealing for the fabrication of ErSi/sub 2 Schottky barrier on Si
[DE84-003105] 07 p1081 N84-17031
Investigation of metallic impurities introduced into SiO/sub 2
[AD-A136008] 09 p1396 N84-19117
SIGMUND, H.
Investigation of silicon materials for solar cells. Part 1: Segregation and gettering properties of certain contaminations. Part 2: Measurement of electrical parameters
[BMFT-FB-T-83-204] 10 p1531 N84-20026
SIGNORETTI, F.
Cosmic ray NM-64 neutron monitor data-9, January-December 1980, Rome, Italy
[IFSI-83-11] 18 p2954 N84-28722
Cosmic ray NM-64 neutron monitor data-10, January-December 1981, Rome, Italy
[IFSI-83-12] 18 p2954 N84-28723
Cosmic ray NM-64 neutron monitor data-9, January-December 1982, Rome, Italy
[IFSI-83-13] 18 p2954 N84-28724
SIGNORINI, C.
A comparison between GEOS 1 magnetic field measurements and some models of the geomagnetic field
[IFSI-82-5] 03 p0409 N84-12675
The programs used to compare the predictions of some geomagnetic models with the measurements from the experiment S-331 onboard the GEOS-1 satellite
[IFSI-82-2] 05 p0705 N84-14627
Cosmic ray NM-64 neutron monitor data-9, January-December 1980, Rome, Italy
[IFSI-83-11] 18 p2954 N84-28722
Cosmic ray NM-64 neutron monitor data-10, January-December 1981, Rome, Italy
[IFSI-83-12] 18 p2954 N84-28723
Cosmic ray NM-64 neutron monitor data-9, January-December 1982, Rome, Italy
[IFSI-83-13] 18 p2954 N84-28724
SIGURDSON, K. B.
A general computer model for predicting the performance of gas sorption refrigerators
06 p0820 N84-15349
SIGURDSSON, S.
Fixed point implementations of fast Kalman algorithms
[AD-A136188] 09 p1378 N84-19005
SIH, G. C.
Mechanical response of materials with physical defects. Part 3. A material testing program for size and rate effects
[AD-A133762] 05 p0693 N84-14548
A generalized couple theory of hygrothermal-elasticity: Transient effects in composite laminate with circular cavity
[AD-A134376] 07 p0968 N84-16271
SIHVOLA, A. H.
Dielectrically loaded corrugated waveguide: Variational analysis of a nonstandard eigenproblem
[REPT-S-131] 09 p1305 N84-18528
Is a partially filled cylindrical resonator operating on the TE sub 011 mode desirable for the determination of permittivity?
[REPT-S-148] 15 p2320 N84-24928
SIKARWAR, R. S.
An epicycloidal hole under uniform tangential force in an infinite, isotropic, compressible medium in second order elasticity
15 p2401 N84-25407
SIKDAR, D. N.
Diagnostics of rainfall anomalies in the Nordeste during the global weather experiment
[SAPR-1] 16 p2529 N84-26235
SIKIVIE, P.
Axions in cosmology
[DE83-015590] 01 p0156 N84-11028
SIKKA, V. K.
Development of modified 9 Cr-1 Mo steel
[DE83-003450] 02 p0194 N84-11262
Mechanical-property characterization of an electroslag-cast valve body of CF8M composition
[DE84-002253] 05 p0655 N84-14309
Mechanical properties of types 304 and 316 stainless steel after long-term aging and exposure
[DE84-003325] 07 p0976 N84-16327
Creep properties of modified 9 Cr-1 Mo steel
[DE84-003174] 07 p0976 N84-16328
Development of modified 9 Cr-1 Mo steel for elevated-temperature service
[DE84-003161] 08 p1133 N84-17372
Microstructural evaluation of a ferritic stainless steel by small angle neutron scattering
[DE84-009487] 19 p2995 N84-28980
SILAYEV, A. M.
On the possibilities of single-antenna ionosphere sounding
17 p2631 N84-26829
SILAYEVA, V. I.
Turbulent pulsations of horizontal and vertical wind velocity components in clouds of different genera
17 p2697 N84-27182
SILBERBERG, Y.
The physical mechanism of optical instabilities
14 p2232 N84-24389
SILBERGLITT, R.
Photovoltaic-cell-reseach priorities
[DE84-000066] 04 p0559 N84-13683
SILBERMAN, J.
HgCdTe surface study program
[AD-A132071] 03 p0349 N84-12266
SILBERMAN, J. A.
HgCdTe surface and defect study program
[AD-A142342] 20 p3308 N84-31010
SILBERSCHATZ, A.
On mapping homogeneous graphs on a linear array-processor model
[AD-A139912] 15 p2398 N84-25386
SILBY, J. H.
A seaborne navigation trial utilising a Differential Omega system
[ERL-0295-TM] 17 p2604 N84-26684
SILCOCK, H.
A new silicon-on-sapphire MIL-STD-1750A microprocessor
[AD-P003551] 21 p3334 N84-31155
SILIO, C. B., JR.
Some device count comparisons for reduced control stores using MOS (Metal-Oxide Semiconductor) circuits
[AD-P002361] 14 p2193 N84-24152
SILKOVAS, A. I.
The effect of pressure on complex heat exchange in a channel with an electric arc
[BLL-OA-TRANS-3090-(6196.3)]
09 p1311 N84-18569
SILL, J. E.
Consideration of MIL-STD-1760, aircraft/store electrical interface standard on stores management system architectures
[AD-P003529] 21 p3331 N84-31133
SILL, R. D.
Testing techniques involved with the development of high shock acceleration sensors
[AD-P002693] 11 p1660 N84-20828
SILLIMAN, A.
L Chondrite meteorites: A compilation and preliminary analyses
15 p2427 N84-25576
SILO, A. E.
Development and testing of glass coatings for Hexanite-A powders
[CSIR-TRANS-1747] 22 p3557 N84-32527
SILUYANOV, O. F.
Scale effect of fiber strength and properties of fiber-based unidirectional composites
23 p3706 N84-33496
SILVA, C. A. B.
Synthesis of MIG-type electron guns for gyrotrons
[INPE-3191-PRE/555] 21 p3391 N84-31517
SILVA, G.
Detection of damage in hydraulic components by acoustic emission techniques
[AD-A143262] 22 p3607 N84-32850
SILVA, O. D.
Introduction to fuzzy decision rules
[INPE-2855-TDL/143] 02 p0286 N84-11875
Tutorial: Fuzzy sets and applications
[INPE-3168-PRE/538] 21 p3471 N84-31998
SILVA, V. D., FILHO
Daily variations of temperature and humidity within and above Amazonian forest
[INPE-3196-PRE/560] 21 p3447 N84-31869
SILVEIRARAMOS, F.
West breakwater-Sines (Portugal). Overview of rehabilitation and synthesis of project
08 p1194 N84-17786
SILVER, A. H.
Applications of Josephson junction squids and arrays
[AD-A134114] 05 p0673 N84-14425
Demonstration of SQUID (Superconducting QUantum Interference Device) parametric amplifier
[AD-A141326] 18 p2834 N84-27992
SILVER, J.
Hypervelocity supersonic nozzle beam source of atomic oxygen
24 p3863 N84-34480
SILVER, J. A.
Absolute collisional excitation cross section measurements using crossed molecular beams
[AD-A132038] 03 p0432 N84-12830
SILVER, P.
Chronic effects of repeated mechanical trauma to the skin: A description of the problem in the workplace
[PB84-181767] 20 p3261 N84-30695
SILVERBERG, L. M.
Active control of distributed structures
13 p1940 N84-22618

SILVERBERG, R. F.
Submillimeter wavelength survey of the galactic plane from l = -5 deg to l = +62 deg: Structure and energetics of the inner disk
[NASA-TM-86077] 20 p3319 N84-31069
SILVESTER, J.
Research Trends in Military Communications
[AD-A138229] 13 p1975 N84-22821
SILVESTER, L. F.
Density of sodium chloride solutions at high temperatures and pressures
[DE84-004883] 10 p1456 N84-19508
SIM, A. G.
Flight characteristics of a manned, low-speed, controlled deep stall vehicle
[NASA-TM-86041] 20 p3128 N84-29863
SIM, J. W.
Advanced fuel-cell development
[DE84-002685] 05 p0676 N84-14445
Electronically conductive ceramics for high temperature oxidizing environments
[DE84-014506] 22 p3561 N84-32549
SIM, M. E.
Photographic surveys of the southern sky
18 p2843 N84-28052
SIMAKOV, A. A.
Effect of redistribution of blood on severity of spatial position illusions in weightlessness
02 p0260 N84-11701
SIMANAVICHIUS, L. E.
Investigation of the possibilities for the electrodeposition of titanium from non-aqueous solutions
[BLL-OA-TRANS-3069-(6196.3)]
04 p0498 N84-13267
SIMANOVSKY, S.
The socialist and developing countries: Technology transfer 01 p0157 N84-11035
SIMARD, R.
LANDSAT-4 MSS interband registration
10 p1523 N84-19969
LANDSAT-MSS multitemporal registration
10 p1523 N84-19970
Corrosion control maintenance practices for Canadian aircraft 16 p2435 N84-25621
Evaluating LANDSAT-4 MSS and TM data
[E84-10157] 17 p2709 N84-27249
SIMBURGER, E. J.
DC wiring system grounding and ground fault protection issues for central station photovoltaic power plants
22 p3584 N84-32695
SIMCOCK, A. L.
An introduction to the AXIS test box
[RSRE-MEMO-3583] 03 p0418 N84-12729
The AXIS test box software report
[RSRE-MEMO-3585] 03 p0420 N84-12741
SIME, D. G.
Interplanetary scintillation observations of the solar wind close to the Sun and out of the ecliptic
03 p0471 N84-13102
2nd Joint Solar Dynamics Project data summary: Solar magnetic field, chromospheric and coronal observations near the time of the 11 June 1983 solar eclipse
[NASA-CR-173340] 09 p1417 N84-19272
SIMETKOSKY, M.
Automotive Stirling engine development program
[NASA-CR-168205] 08 p1242 N84-18117
Automotive Stirling engine development program
[NASA-CR-174622] 21 p3521 N84-32305
SIMEVICI, D. A.
Roots of N-valued switching functions
[AD-P002350] 14 p2192 N84-24141
SIMHA, R.
Volume recovery in glasses: A free-volume diffusion process
[DE83-013771] 06 p0811 N84-15280
SIMILON, P. L.
Nonlinear interaction of toroidicity induced drift modes
[DE84-001562] 06 p0921 N84-15987
SIMITSES, G. J.
Analysis of the nonlinear large deformation behavior of composite cylindrical shells
[AD-A133761] 05 p0693 N84-14549
SIMIU, E.
Turbulent wind effects on tension leg platform surge
[PB83-207464] 01 p0058 N84-10376
Directional extreme wind speed data for the design of buildings and other structures
[PB84-178847] 20 p3171 N84-30139
SIMMER, C.
Radiation and clouds, the International Satellite Cloud Climatology Project (ISCCP) 10 p1535 N84-20060
Cloud recognition from bispectral histograms
[MITT-38] 18 p2891 N84-28352
SIMMERMAN, B. C.
Operational and functional description of AERA 1.01
[AD-A136831] 10 p1425 N84-19322
SIMMERS, J. A.
Multivariable digital flight control design for the FPCC (Flight propulsion control coupling) aircraft
[AD-A138093] 12 p1772 N84-21556
SIMMONS, A. P.
Developments in cabin safety and crashworthiness
08 p1101 N84-17161
SIMMONS, B. J.
Scale model testing for control system parameters of large structures
[AD-A135652] 09 p1273 N84-18313
SIMMONS, C. S.
INFIL1D: A quasi-analytical model for simulating one-dimensional, constant flux infiltration
[DE84-008905] 20 p3187 N84-30250
SIMMONS, D. J.
Simulating certain aspects of hypogravity: Effects on the mandibular incisors of suspended rats (PULEH model) 09 p1353 N84-18844
The effects of spaceflight on the mineralization of rat incisor dentin 09 p1353 N84-18845
SIMMONS, J. F. L.
Bias in polarimetric estimators
09 p1412 N84-19235
SIMMONS, L. W.
A mathematical model for oxygen toxicity in man
[AD-A137379] 10 p1547 N84-20139
SIMMONS, R.
Bird impact evaluation of the F/RF-4 transparency system
[AD-P003218] 17 p2595 N84-26631
SIMMONS, R. G.
Representations for reasoning about change
[AD-A131649] 03 p0424 N84-12772
SIMMONS, R. J.
Flightline thermal environment testing of F-111 transparencies
[AD-A131642] 03 p0332 N84-12163
SIMMONS, R. O.
Momentum distributions in hcp, bcc, and liquid He-4
[DE84-014679] 23 p3831 N84-34300
SIMMONS, W. W.
NOVA Laser facility for inertial confinement fusion
[DE84-004190] 11 p1737 N84-21332
SIMNETT, G. M.
The ISPM experiment for spectral, composition and anistropy measurements of charged particles at low energie 09 p1261 N84-18235
SIMO-MUERZA, J. C.
Some bifurcation topics in non-linear elastostatics
03 p0387 N84-12524
SIMO, C.
Qualitative study of the planar isosceles three-body problem
[PREPRINT-35] 20 p3133 N84-29896
SIMON, A.
Observation of scattered light between Omega-2 and 3/2-Omega in short wavelength laser produced plasmas
[DE84-012533] 20 p3306 N84-31001
A new model of Raman spectra in laser produced plasma
[DE84-012487] 20 p3307 N84-31005
A new model of Raman spectra in laser produced plasma
[DE84-009625] 21 p3501 N84-32188
How useful are odd-integer half-harmonics
[DE84-012392] 21 p3501 N84-32190
SIMON, B.
Combined visualization 06 p0769 N84-15043
Advanced combustor liner cooling concepts
15 p2292 N84-24756
SIMON, H.
Methods in competition with electroplating
[BLL-OA-TRANS-3037-(6196.3)]
06 p0800 N84-15213
SIMON, H. A.
Problem solving and reasoning
[AD-A138889] 14 p2186 N84-24099
SIMON, H. D.
Banded preconditioning for the solution of symmetric positive definite linear systems
[AD-A140097] 15 p2399 N84-25394
SIMON, J.
Generalization of the numerical Schwarz algorithm
[DE84-003735] 11 p1716 N84-21191
SIMON, J. Y.
Investigation of a rainwater flow and temperature measuring device in a moist atmosphere refrigerant
[HT-31.82.11] 09 p1317 N84-18602
SIMON, K. P.
IUE-high resolution of ONV-stars
24 p3976 N84-35180
Limb-darkening and metal abundances in the sdOB primary of the eclipsing binary LB 3459 (AA Dor)
24 p3976 N84-35183
SIMON, N. J.
Materials studies for magnetic fusion energy applications at low temperatures, part 6
[PB83-259630] 05 p0657 N84-14320
SIMON, R.
Realization of first order optical systems using thin lenses
[DE84-002848] 05 p0747 N84-14909
Fourier optics for the Maxwell field: Formalism and applications
[DE84-002845] 06 p0826 N84-15383
SIMON, R. S.
Nuclear structure of quasars at 329 megaHertz
05 p0763 N84-15002
Point response functions for unfilled optical arrays
[AD-A143384] 22 p3657 N84-33183
SIMON, T.
IUE observations of BY Draconis
24 p3975 N84-35176
Rotational modulation of spots and plages on RSCVn stars 24 p3978 N84-35196
SIMONDS, R. A.
Residual strength of five boron/aluminum laminates with crack-like notches after fatigue loading
[NASA-CR-3815] 21 p3357 N84-31290
SIMONEAU, R. J.
Heat transfer distributions around nominal ice accretion shapes formed on a cylinder in the NASA Lewis icing research tunnel
[NASA-TM-83557] 05 p0679 N84-14463
Effect of a rotor wake on heat transfer from a circular cylinder
[NASA-TM-83613] 12 p1815 N84-21832
SIMONELLI, P.
Fast automatic reconnaissance in land obeservations images by means of analog and/or digital images
23 p3768 N84-33885
SIMONEN, E. P.
Dislocation/obstacle interactions during low-dose irradiation creep of nickel
[DE84-001416] 04 p0504 N84-13303
Pulsed-ion-irradiated microstructures in molybdenum
[DE84-000679] 04 p0504 N84-13304
SIMONEN, F. A.
Qualifications of ultrasonic testing for nuclear inservice inspection applications
[DE84-011899] 20 p3200 N84-30323
SIMONEN, T. C.
TMX-U experimental results
[DE83-016790] 03 p0449 N84-12955
SIMONETT, D. S.
Review and synthesis of problems and directions for large scale geographic information system development
[NASA-CR-166563] 10 p1525 N84-19988
SIMONETTI, E.
Application of sputtering technology to microwave integrated circuit fabrication 17 p2653 N84-26965
SIMONI, P. O.
Science analysis by knowledge stored in associative networks
[INPE-2784-PRE/350] 09 p1366 N84-18920
SIMONICH, D. M.
Tidal oscillations in the atmospheric sodium layer
[INPE-3008-PRE/454] 12 p1846 N84-22033
SIMONICH, J. C.
Local measurements of turbulent boundary layer heat transfer on a concave surface using liquid crystals
02 p0221 N84-11451
SIMONOV, B. P.
Effect of elastically suspended masses on stability of elastic panels in supersonic stream
17 p2650 N84-26949
SIMONOV, L. G.
Bioecholocation method for inestigation of parameters of intracranial circulation of blood and fluid in man
07 p1047 N84-16788
SIMONOV, Y. I.
Overall mechanization of assembly and welding processes in the manufacture of ships' structures
12 p1787 N84-21653
SIMONOVA, T. G.
Criteria of human cold adaptation
18 p2897 N84-28381
SIMONS, D. J.
Evolution of structure in the PLACES barium clouds
[DE84-010995] 20 p3242 N84-30583
SIMONS, J. C.
Electroluminescent formation lights for HC-130 P/N special operations. 1: Flight test candidates
[AD-A137662] 11 p1606 N84-20516
SIMONS, R. L.
Correlation of yield stress changes in 316 stainless steel irradiated with high-energy and fission neutrons
[DE84-002115] 08 p1133 N84-17368

SIMONS, S. A.
Boundary layer trip performance test on a 7-deg cone model at mach number 8
[AD-A139408] 14 p2146 N84-23860
SIMONSON, G. F.
The behavior of cold gas in spheroidal galactic potentials 02 p0306 N84-12010
SIMONSON, R. J.
Chemical reaction dynamics at surfaces 22 p3681 N84-33340
SIMONSSON, G.
Photogrammetric method for determining geometric visual perception
[FOA-C-20478-D6] 07 p1008 N84-16539
SIMPKINS, J.
Thermistor chain observations during MILDEX (mixed layer dynamics experiment)
[AD-A143933] 23 p3803 N84-34114
SIMPKINS, J. E.
A practical sublimation source for large-scale chromium gettering in fusion devices
[DE84-000724] 04 p0606 N84-14002
SIMPSON, A. C.
Automated Instructional Media Selection (AIMS)
[AD-A135749] 10 p1552 N84-20168
SIMPSON, D. M.
Calculation of two-dimensional focusing factor distribution due to specular flux transfer between general curves 10 p1448 N84-19459
SIMPSON, J.
Relativistic-beam pickup test facility
[DE83-017929] 04 p0600 N84-13962
SIMPSON, J. A.
The ISPM cosmic-ray and solar-particle investigation 09 p1262 N84-18236
Investment justification of robotic technology in aerospace manufacturing
[AD-A140782] 17 p2598 N84-26651
SIMPSON, P.
Real time speech recognition on a distributed digital processing array
[AD-A139097] 14 p2139 N84-23826
SIMPSON, R. A.
The case for aeolian control of meter-scale surface texture on Mars 13 p2088 N84-23526
SIMPSON, R. L.
Scanning laser Doppler anemometer and its application in turbulent separated flow
[AD-A130923] 01 p0084 N84-10548
An experimental study of the properties of surface pressure fluctuations in strong adverse pressure gradient turbulent boundary layers
[NASA-CR-175410] 11 p1601 N84-20488
SIMPSON, R. W.
Investigation of air transportation technology at MIT 02 p0168 N84-11104
Lateral runway approach guidance using Loran-C 02 p0168 N84-11105
SIMS, J. L.
Plume base flow simulation technology 01 p0018 N84-10116
SIMS, M.
Applications of the GPS (Global Positioning System) Geodetic Receiver System
[AD-A140567] 17 p2605 N84-26688
SIMS, R.
KC-135 wing and winglet flight pressure distributions, loads, and wing deflection results with some wind tunnel comparisons 18 p2787 N84-27688
SINCALI, A. J.
Portable device for detecting and identifying hazardous vapors
[DE84-003640] 14 p2148 N84-23870
SINCLAIR, G. B.
On the implications for LEFM (Linear elastic fracture Mechanics) of the 3-dimensional aspects in some crack/surface intersection problems
[AD-A134227] 07 p1016 N84-16592
SINCLAIR, J. E.
Narrow-band photometry of faint red stars, 2
[BULL-191] 08 p1243 N84-18126
SINCLAIR, J. H.
INHYD: Computer code for intraply hybrid composite design. A users manual
[NASA-TP-2239] 04 p0491 N84-13224
Impact resistance of fiber composites: Energy absorbing mechanisms and environmental effects
[NASA-TM-83594] 15 p2284 N84-24712
SINCLAIR, M. J.
Far Infrared Radiometric Spectrometer (FIRRS)
[AD-A133552] 06 p0847 N84-15527
SINCLAIR, P. C.
Genesis and development of deep convective storms
[PB83-252452] 05 p0710 N84-14653
Investigation of arc cloud lines 24 p3931 N84-34885
SINCLAIR, R. G.
Improved acrylic systems for rapid runway repair
[AD-A130389] 01 p0016 N84-10103
SINCLAIR, S. R. M.
Evaluation of the effects of lateral and longitudinal aperiodic modes on helicopter instrument flight handling qualities
[AD-A134116] 05 p0629 N84-14135
Report by the Chairman of the Flight Mechanics Panel 12 p1763 N84-21495
SINCOVEC, R.
Moving finite elements in 1-D: A review of the method and the coding experience
[DE84-004821] 11 p1716 N84-21192
SINDIR, M. M.
Turbulent transport models for scramjet flowfields
[NASA-CR-172284] 10 p1491 N84-19747
SINDONI, O. I.
The elements of the rotation matrices in terms of Rodriguez's parameters
[AD-A136550] 09 p1376 N84-18988
SINELNIKOV, N. G.
Device for high frequency arc welding 24 p3869 N84-34522
SING, H. C.
Complex demodulation: A technique for assessing periodic components in sequentially sampled data
[AD-P003845] 24 p3939 N84-34933
SINGER, E.
A programmable voice processor for fighter aircraft applications
[AD-A133780] 05 p0668 N84-14393
SINGER, G. L.
FORTRAN 5 cross-reference
[DE84-006438] 11 p1709 N84-21143
SINGER, H. J.
A study of geomagnetic pulsations using the AFGL (Air Force Geophysics Laboratory) magnetometer network
[AD-A140507] 16 p2526 N84-26217
SINGER, I. D.
Energy efficient engine high-pressure turbine detailed design report
[NASA-CR-165608] 19 p2965 N84-28788
SINGER, J. E.
Aftereffects associated with one and two stressors across conditions of complete, partial, or no control
[AD-P003299] 18 p2908 N84-28446
SINGER, M. J.
Research issues in training device design: The organization of a data base
[AD-A140815] 17 p2611 N84-26710
SINGER, S. F.
Interplanetary dust experiment (A0201) 15 p2277 N84-24671
SINGH, A. K.
Cerebral metabolism and blood brain transport: Toxicity of organophosphorous compounds
[AD-A142705] 22 p3630 N84-33005
SINGH, B.
Application of the finite element method to study crystal growth 15 p2307 N84-24840
SINGH, G.
Use of microwaves to improve nutritional value of soybeans for future space inhabitants
[NASA-CR-175336] 07 p1051 N84-16805
SINGH, J. J.
Proposed fast-response oxygen monitoring and control system for the Langley 8-foot high-temperature tunnel
[NASA-TP-2218] 02 p0223 N84-11460
Low energy electron magnetometer using a monoenergetic electron beam
[NASA-CASE-LAR-12706-1] 03 p0375 N84-12444
A nonintrusive nuclear monitor for measuring liquid contents in sealed vessels
[NASA-TM-85754] 08 p1161 N84-17560
Process for improving moisture resistance of epoxy resins by addition of chromium ions
[NASA-CASE-LAR-13226-1] 11 p1636 N84-20700
New technique for calibrating hydrocarbon gas flowmeters
[NASA-TM-85792] 16 p2495 N84-26007
An investigation of chemically-induced improvement in saturation moisture characteristics of epoxies
[NASA-TM-85826] 18 p2809 N84-27834
Radionuclide counting technique for measuring wind velocity and direction
[NASA-CASE-LAR-12971-1] 18 p2883 N84-28292
A study of the effects of end-cap molecular species on environmental characteristics of polimidesulfones
[NASA-TM-86283] 22 p3544 N84-32437
A system for controlling the oxygen content of a gas produced by combustion
[NASA-CASE-LAR-13257-1] 22 p3546 N84-32447
Technique for measuring gas conversion factors
[NASA-CASE-LAR-13220-1] 22 p3598 N84-32786
SINGH, M. K.
The effects of relaxing automobile emission standards: A generic analysis and an urban case study
[DE84-000193] 04 p0560 N84-13693
SINGH, M. P.
Seismic response for multicomponent earthquakes
[PB84-193747] 20 p3204 N84-30354
SINGH, N.
The Alpha-Helix Concept: Innovative utilization of the Space Station Program. A report to the National Aeronautical and Space Administration requesting establishment of a Sensory Physiology Laboratory on the Space Station
[NASA-CR-175436] 11 p1621 N84-20610
SINGH, P.
Transport properties of amorphous silicon-germanium alloy films. Volume 2: Appendices
[DE84-006879] 15 p2414 N84-25495
Transport properties of amorphous silicon-germanium alloy films. Volume 1: Technical summary
[DE84-006878] 15 p2414 N84-25497
SINGH, P. P.
An investigation of thermal characteristics of plate-in-tube solar receivers 01 p0101 N84-10658
SINGH, R. N. P.
Tracking Data Acquisition System (TDAS) for the 1990's. Volume 6: TDAS navigation system architecture
[NASA-CR-175198] 10 p1434 N84-19374
SINGH, S.
Optical bistability, chaos in the coherent two photon processes 14 p2231 N84-24384
Non-Hertzian rolling contact with longitudinal creepage 15 p2315 N84-24894
SINGH, S. M.
Normalization of water-leaving radiance obtained from the Coastal Zone Colour Scanner (CZCS) data 03 p0399 N84-12610
SINGH, S. N.
Stability of a pair of stationary vortices in the leeward side of a cylinder in a potential flowfield
[AD-A131917] 03 p0320 N84-12095
SINGH, V.
Computer calculated analysis of subsurface formation porosities in central New York state 22 p3620 N84-32941
SINGH, V. P.
Continuum mechanics approach to streamflow modeling
[PB83-265041] 05 p0698 N84-14581
Geomorphic approach to hydrograph synthesis, with potential for application to ungaged watersheds
[PB84-190115] 22 p3615 N84-32904
SINGHAL, A. K.
Rocket injector anomalies study. Volume 1: Description of the mathematical model and solution procedure
[NASA-CR-174702] 22 p3543 N84-32428
Rocket injector anomalies study. Volume 2: Results of parametric studies
[NASA-CR-174703] 22 p3543 N84-32429
SINGHAL, S.
Effects of variations in heat treatment on the mechanical properties and microstructure of ASTM A710 Grade A Class 3 steel
[AD-A136328] 09 p1282 N84-18371
Synthesis of arbitrary broadband signals for a parametric array
[AD-D011021] 19 p3100 N84-29691
SINGLER, T. J.
An experimental investigation of the boundary layer structures in a partially-filled horizontal and rapidly-rotating cylinder 06 p0832 N84-15414
SINGLEY, M. E.
Pattern recognition for Space Applications Center director's discretionary fund
[NASA-TM-82586] 18 p2951 N84-28710
SINGPURWALLA, N. D.
An empirically developed Fourier series model for describing software failures
[AD-A132739] 05 p0729 N84-14787
Research in some applied, and the modelling aspects of, reliability theory
[AD-A133424] 06 p0855 N84-15567
A combined Bayes-sampling theory method for monitoring a Bernoulli process
[AD-P003840] 24 p3938 N84-34928
SINHA, A.
Friction damping of flutter in gas turbine engines 17 p2609 N84-26701
SINHA, B.
High-speed recursive digital filter realization
[AD-A140904] 17 p2759 N84-27517
SINHA, B. K.
Rejection of multivariate outliers
[AD-A130686] 01 p0133 N84-10870

SINHA, D. N.
Maximum supercooling in liquid 3He-4He mixtures near the tricritical point
[DE84-010076] 22 p3665 N84-33232
Dynamical scaling in 3He-4He liquid mixtures
[DE84-010072] 22 p3665 N84-33233
SINHA, S. K.
Neutron-scattering studies of magnetic superconductors
[DE84-000393] 04 p0614 N84-14054
Theory of elementary excitations in intermediate valence materials
[DE84-003705] 07 p1083 N84-17044
SINHA, V.
Satellite communication, part 1
[INPE-2893-PRE/417] 03 p0359 N84-12337
Satellite communication, part 2
[INPE-3107-PRE/506] 16 p2481 N84-25906
SINIFF, D. B.
Vertebrate behavior and ecology
[DE84-007318] 20 p3257 N84-30673
SINITSKY, V. B.
The time-spatial structure of microwave radio fields on line-of-sight overwater paths
[REPT-220] 17 p2651 N84-26955
SINITSYN, G. V.
Vacuum-deposited thin-film interferometers as bistable devices operating continuously at room temperature
14 p2241 N84-24453
SINITSYNA, N. P.
Vortical-potential flow of ideal fluid along plane with depression 17 p2646 N84-26927
SINNECKER, W. D.
Optimizing tools for generating spherical surfaces and polishing powders in optical production technology
[BMFT-FB-T-84-094] 21 p3499 N84-32178
SINNOTT, D. H.
The use of overlapped subarray techniques in simultaneous receive beam linear arrays
[AD-P003501] 21 p3383 N84-31469
SINTON, S.
SPEC-DOC: A user's guide to spectrometer software
[DE83-013295] 02 p0274 N84-11790
SINTON, W. M.
Determination of the Io heat flow. 1: Eclipse observations
[NASA-CR-173631] 17 p2774 N84-27614
On Io, all that flickers is not cold
[NASA-CR-173447] 17 p2777 N84-27631
SINUTKO, M., JR.
Mx, A mix-valued algebra
[AD-P002371] 14 p2195 N84-24162
SINYAVSKIY, A. V.
Double scattering background in a CW lidar
21 p3483 N84-32072
SINZ, R.
The influence of overheating on the development of structures, on ductility, and on corrosion resistance of the heat effect zones of stabilized austenitic nickel-chromium steels
[MPA-83-03] 18 p2815 N84-27872
SIOCHI, E. J.
A fundamental approach to the sticking of insect residues to aircraft wings
[NASA-CR-173721] 18 p2791 N84-27717
SIOL, R.
Scatterometer System Simulator (SSS), phase 1: Definition
[ESA-CR(P)-1788] 08 p1191 N84-17765
SIOMOS, K.
Electron-molecule interactions in gases and liquids: The electron-attachment process in gases and nonpolar liquids
[DE83-017205] 03 p0436 N84-12863
SIPILO, V. B.
Crystallization of cubic boron nitride in the presence of silicon
[CSIR-TRANS-1753] 23 p3829 N84-34289
SIPPEL, R.
Study of wind scatterometer antenna for ERS-1. Volume 1: Executive summary report
[Y/A-3380] 13 p2017 N84-23080
Study of windscatterometer antenna for ERS-1
[MIX/A-3188] 13 p2018 N84-23081
SIQUEIRA, V. L.
SIRIUS: Bibliographic search and retrieval system
[INPE-2771-PRE/344] 15 p2417 N84-25512
SIRE, R.
Techniques for fatigue life predictions from measured strains
[NASA-CR-171118] 20 p3201 N84-30334
SIRIAN, C. R.
Fatigue testing of OTEC cold water pipe glass-reinforced plastic materials
[PB84-128958] 09 p1335 N84-18715
SIRIGNANO, W. A.
Vaporization of synthetic fuels
[DE84-006556] 12 p1803 N84-21755
Ignition and flame propagation in sprays
[AD-A143773] 23 p3713 N84-33538
SISAKYAN, I. N.
Focusers of obliquely incident laser radiation
21 p3487 N84-32099
SISCHKA, F.
Precision clock generators in Ta thin film technology
[BMFT-FB-T-84-073] 19 p3019 N84-29144
SISCO, H. G.
Water resources data for Idaho, water year 1982. Volume 1: Great Basin and Snake River Basin above King Hill
[PB84-118470] 09 p1338 N84-18740
Water resources data for Idaho, water year 1982. Volume 2: Upper Columbia River Basin and Snake River Basin below King Hill
[PB84-118488] 09 p1338 N84-18741
SISCOE, G. L.
Saturn's outer magnetosphere
[NASA-TM-85105] 01 p0165 N84-11084
SISLIAN, J. P.
Laser Doppler velocimetry measurements of mean velocity and turbulent stress tensor components in a free isothermal swirling jet
[UTIAS-281] 12 p1815 N84-21830
SISSON, C. E.
Use of numerical heat-transfer techniques to analyze thermal-comparator conductivity measurements
[DE84-000945] 04 p0535 N84-13515
Quality Assurance (QA) procedures for computer software in department 1510
[DE84-012131] 20 p3273 N84-30778
SISTERSON, D. L.
Rush field experiments: Growth and initial decay of the mixed layer over an autumn landscape
[DE84-001671] 07 p1040 N84-16743
Untapped midwestern wind energy resource: Nocturnal low-level wind maxima
[DE84-006424] 13 p2017 N84-23077
SISTIA, G.
Turbulent diffusion behind vehicles: Experiments and verification of roadway models
[PB84-194273] 21 p3326 N84-31101
SISTLA, A.
Theoretical issues in the design and verification of distributed systems 22 p3643 N84-33096
SISTO, F.
The influence of gyroscopic forces on the dynamic behavior and flutter of rotating blades
[NASA-CR-175444] 11 p1608 N84-20524
Behavior of cascaded airfoils under conditions of high mean loading and flow unsteadiness
[AD-A139799] 15 p2263 N84-24592
SITARAM, N.
Blade endwall flows in an axial flow compressor stage
21 p3343 N84-31209
SITES, J. R.
Novel techniques for enhanced reflectivity infrared mirrors
[AD-A131924] 03 p0441 N84-12894
SITNIKOV, A.
Pravda scores US reaction to draft treaty on use of force in space 09 p1265 N84-18259
SITNOV, A. M.
Joint analysis of the data obtained by detecting the general, muon, and neutron components of cosmic ray intensity on May 7, 1978 24 p3993 N84-35270
SITNYAKOVSKIY, I. V.
Results of investigation of adaptive speech codes
21 p3376 N84-31428
SITSKA, J.
Synthetic spectra of red giants
15 p2422 N84-25550
SITTLER, E. C., JR.
Plasma electron analysis: Voyager plasma science experiment
[NASA-TM-85037] 24 p3989 N84-35243
SIVARAMACHANDRAN, A. S.
Dynamics and control of flexible orbiting systems
14 p2245 N84-24481
SIVCHIKOV, B. Y.
Elastoplastic double-wall shells under intricate nonisothermal load 17 p2651 N84-26951
SIVOKHA, V. P.
Martensite transformation and shape memory in Ti0.5Ni0.5-xPd sub x system alloys
12 p1786 N84-21649
SIXSMITH, H.
A miniature tilting pad gas lubricated bearing
06 p0819 N84-15340
SIXT, G.
Development of technologies for highly integrated circuits
[BMFT-FB-T-83-142] 02 p0216 N84-11417
SIZMAN, R.
Improvement of flat plate collectors for solar energy conversion
[BMFT-FB-T-84-042] 16 p2519 N84-26167
SIZOV, A. A.
Quasibiennial cycle of thermodynamic atmosphere-ocean interaction in North Atlantic
17 p2700 N84-27196
SJOBERG, E. S.
Marine Air Traffic Control And Landing System (MATCALS) investigation
[AD-A130309] 01 p0007 N84-10045
SJOEGREN, P.
Poisson integrals of absolutely continuous and other measures
[CTH-MATH-1983-10] 13 p2036 N84-23210
Multiparameter maximal functions along dilation-invariant hypersurfaces
[CTH-MATH-1984-11] 23 p3819 N84-34215
SKAKOV, Y. A.
Calculation of structure factor for different cluster models of an amorphous alloy
[BLL-M-35293-(5828.4)] 06 p0803 N84-15234
SKALATSKIY, O. N.
Method for identifying trace contaminants in chamber atmosphere at high pressure 02 p0262 N84-11718
SKALICKY, P.
Anisotropy and microstructure of Sm2(Co, Fe, Cu, Zr)17 magnetic materials
[AD-A131961] 03 p0352 N84-12291
SKALL, M.
Guide to software conversion management
[PB84-118314] 09 p1370 N84-18945
SKALLI, A.
A Specification Assistance System (SAS)
05 p0721 N84-14731
SKALSKI, S. C.
Forced vibration analysis of rotating cyclic structures in NASTRAN
[NASA-CR-165429] 02 p0231 N84-11514
NASTRAN documentation for flutter analysis of advanced turbopropellers
[NASA-CR-167927] 06 p0790 N84-15153
Bladed-shrouded-disc aeroelastic analyses: Computer program updates in NASTRAN level 17.7
[NASA-CR-165428] 06 p0790 N84-15154
SKANDALIS, G.
Stability of C* algebras of a foliated manifold
14 p2211 N84-24273
Determinants connected with a trace on a Banach algebra 22 p3635 N84-33036
SKARDA, J. R.
Doppler lidar results from the San Gorgonio Pass experiments 24 p3928 N84-34866
SKARPERDAS, G.
Water vapor electrolysis: Systems considerations and cost/performance benefits
[DE84-007389] 21 p3374 N84-31410
SKARSHAUG, R. E.
Integrated technology wing design study
[NASA-CR-3586] 23 p3693 N84-33402
SKAU, C. M.
Relationships among precipitation, snowmelt, subsurface flow, groundwater recharge and streamflow generation in the Clear Creek watershed, eastern Sierra Nevada
[PB83-253344] 05 p0697 N84-14579
SKEBE, S. A.
Experimental investigation of two-dimensional shock boundary layer interactions 16 p2485 N84-25938
SKEDZIELEWSKI, S.
SISAL: Streams and Iteration in a Single-Assignment Language. Language reference manual, version 1.1
[DE83-016576] 04 p0582 N84-13843
Environment for scientific laboratories
[DE83-013848] 12 p1919 N84-22504
SKELLEY, L. J.
Guide to reporting time in the financial information system at ANL
[DE84-009356] 15 p2419 N84-25524
SKELLY, J. M.
Rainfall chemistry and potential beneficial-detrimental impact to indigenous vegetation
[AD-A138471] 12 p1845 N84-22027
SKELTON, E. A.
Short-range acoustic intensity vectors of the Pekeris shallow water model
[AMTE(N)-TM-83065] 03 p0430 N84-12819

SKELTON, E. F.
Structural studies at elevated pressure and reduced temperatures using synchrotron radiation: Application to Ce.8La.1Th.1
[DE84-001793] 06 p0924 N84-16007
SKELTON, R. E.
Linearized dynamical model for the NASA/IEEE SCOLE configuration
[NASA-CR-172394] 22 p3542 N84-32423
SKERJANEC, R. E.
Computer-based transmission monitor and control system
[PB84-202068] 22 p3639 N84-33069
SKEWIS, W. H.
Reliability programs for nonelectronic designs, volume 2
[AD-A133625] 05 p0689 N84-14528
Reliability programs for nonelectronic designs, volume 1
[AD-A133624] 05 p0689 N84-14529
SKIFFINS, R. M.
Frequency management in the United Kingdom for private mobile radio systems 10 p1476 N84-19545
SKILES, D. A.
Synthetic voice: Power system enunciation speech synthesis system
[PB84-151646] 14 p2141 N84-23838
SKILLINGS, B. J.
Simulation of closure: Effects on crack detection probability and stress distributions
[DE83-009309] 01 p0097 N84-10633
Effects of crack closure on ultrasonic transmission
[DE83-018073] 04 p0546 N84-13599
SKINNER, D. R.
Two approaches to the instrumental estimation of detectability 24 p3915 N84-34789
SKINNER, E. B.
History of aircraft escape system propulsion
20 p3141 N84-29941
SKINNER, G. T.
Study of the contained air flow in a radial tire: Experimental
[DE84-000840] 04 p0545 N84-13591
SKIRVAN, J. A.
Software reliability: Additional investigations into modeling with replicated experiments
[NASA-CR-172378] 19 p3074 N84-29502
SKIVINGTON, J. E.
Effects of confirmed and disconfirmed expectations: A naturally occuring experiment
[AD-A141857] 19 p3068 N84-29461
SKLAD, P. S.
Microstructure and properties of TiB2 implanted with 1-MeV nickel
[DE83-014020] 01 p0154 N84-11012
Effect of implanted helium on the microstructure and creep properties of ordered (FeO.49 NiO.51) V-3 alloys
[DE84-000691] 04 p0500 N84-13278
SKLADANOVSKII, E. N.
The melting of iron containing reduced amounts of non-ferrous metal impurities
[BLL-M-35209-(5828.4)] 01 p0041 N84-10259
SKLAR, B.
A pioneer deep ocean mining venture
[PB84-199645] 21 p3433 N84-31780
SKLIRIS, E.
An expected value air combat model simulation algorithm to predict missions performance in tactical air operations
[AD-A137651] 11 p1718 N84-21207
SKLIZKOV, G. V.
Television system for monitoring target position in laser thermonuclear fusion experiments
13 p1969 N84-22781
Dynamics of plasma corona on spherical targets irradiated by laser 20 p3288 N84-30878
Heating and implosion of spherical targets irradiated by laser 20 p3288 N84-30879
SKLIZNEV, S. M.
Coupling of current and frequency-modulated noise in Gunn oscillators 17 p2636 N84-26865
SKLODOWSKI, M.
Review of the strength of brittle rock materials
23 p3722 N84-33586
SKLYAROV, A. V.
Heavy machine-tool construction for 50 years
[AD-A137599] 11 p1685 N84-20861
SKLYUT, H.
Mechanistic methodology for airport pavement design with engineering fabrics. Volume 1: Theoretical and experimental base
[DOT/FAA/PM-84-9.1] 24 p3857 N84-34450
SKOBETS, I. Y.
Stability and electrokinetic potential of silicon carbide suspensions in aqueous organic media
[NASA-TM-77428] 10 p1454 N84-19494
SKOBLIKOV, Y. A.
Effects of science, technology on structure of production process 01 p0054 N84-10351
SKOELD, K.
Lattice dynamics of the mixed-conducting intermetallic compound alpha-LiAl
[DE83-014334] 05 p0756 N84-14959
SKOGLUND, R.
RSAW: A computer program for processing and presentation of geographic information
[FOA-C-20473-D8(F8)] 07 p1085 N84-17057
SKOOG, A. I.
The complementary roles of existing and advanced environmental, thermal control and life support technology for space stations 10 p1443 N84-19429
Biological life support system
10 p1444 N84-19430
SKOP, R. A.
A comparison of explicit time integration techniques for the finite element shock wave equations
[AD-A134757] 08 p1220 N84-17968
SKORIKOV, K. I.
Engineering method of calculating the temperature field of solid and hollow cylinders
[BLL-M-35561-(5828.4)] 17 p2665 N84-26995
SKORINOV, V. N.
Accuracy of one approximate method for computing radiative fluxes in presence of broken clouds
20 p3225 N84-30491
SKOROBOGATOV, Y. V.
Organizing work with information flows in system for automated processing of data from remote sensing of the Earth for use in agriculture 19 p2977 N84-28873
SKOTHEIM, T. A.
The photoelectrochemistry of conducting polymers
[DE84-010889] 20 p3164 N84-30093
Improved photovoltaic cells and electrodes
[DE84-011105] 21 p3393 N84-31530
Electro-optical switching and memory display device
[DE84-014227] 23 p3744 N84-33732
SKOU, N.
Passive radiometry and other remote sensing data interpretation for oil slick thickness assessment, in an experimental case 03 p0399 N84-12609
Microwave radiometry for oil pollution monitoring, measurement and systems 23 p3781 N84-33975
SKOVORODKIN, Y. P.
Vertical movements and magnetic variations before earthquakes 18 p2860 N84-28163
SKOVORODKO, S. N.
Procedure for wall temperature measurement in a metal vapor laser 13 p1968 N84-22777
SKOW, A. M.
Control of the forebody vortex orientation by asymmetric air injection. Part A: Application to enhance departure/spin recovery of fighter aircraft and Part B: Details of the flow structure 01 p0014 N84-10088
Control of advanced fighter aircraft
01 p0014 N84-10089
SKOWRONSKI, R. P.
Comparison of measured and calculated helium production in nickel using newly evaluated neutron cross sections for (59)Ni
[DE84-000565] 04 p0611 N84-14035
SKRIPCHENKO, A. I.
Certain features of laser welding with penetrating melting 23 p3709 N84-33513
SKUDRIDAKIS, J.
System modeling and identification of equivalent systems with and without compensating time delay for control-augmented aircraft
[DFVLR-FB-83-36] 15 p2259 N84-24570
SKUMANICH, A.
Optical properties and correlation energy of defects in a-Ge:H
[DE83-016697] 03 p0455 N84-12993
Effects of compensation on light-induced metastable defects in aSi:H
[DE83-016696] 04 p0558 N84-13680
The K2-Dwarf V471 TAU: A stellar version of solar variability 17 p2779 N84-27647
Modelling solar spectral irradiance variations at ultraviolet wavelengths 17 p2780 N84-27651
SKUYBIN, F. T.
Slip forms for the construction of PRessed CAst-in-Situ concrete linings for shield tunneling
[AD-A139411] 14 p2134 N84-23792
SKVORTSOV, A. T.
Sound field of turbulent wake
21 p3478 N84-32048
SKVORTSOVA, I. B.
Electrochemical behavior of amorphous titanium-based alloy after various annealing conditions
24 p3875 N84-34555
SKVORTSOVA, N. O.
Laser cell analyzer 17 p2741 N84-27406
SLABINSKI, V. J.
Colocation stationkeeping of geostationary satellites
19 p3121 N84-29838
SLABY, J. G.
Overview of NASA Lewis Research Center free-piston Stirling engine activities
[NASA-TM-83649] 12 p1921 N84-22512
SLACHMUYLDERS, E.
Future trends in spacecraft thermal control designs
10 p1439 N84-19397
SLACK, G. J.
A reassessment of the measurement uncertainty of the XT-90 twin T dual admittance bridge
[AD-A139253] 16 p2483 N84-25923
SLACK, M.
Solid carbon oxidation and radiation in exhaust plumes
13 p1941 N84-22623
SLACK, R.
Aircraft remote sensing of soil moisture and hydrologic parameters, Taylor Creek, Florida, and Little River, Georgia, 1979 data report
[E84-10010] 02 p0236 N84-11548
SLADE, M. A.
Arcsecond positions for milliarcsecond VLBI nuclei of extragalactic radio sources, part 2: 207 sources
16 p2478 N84-25890
SLADKOVIC, R.
Scientific analysis of existing data on aerosol dispersion and transport in a mountain valley
[AD-A142013] 20 p3238 N84-30555
SLAGLE, D. C.
LORAN-C signal stability study: Northeast and southeast U.S.
[AD-A137628] 11 p1604 N84-20508
SLAMET, S.
Quasi-Newton and multigrid methods for semiconductor device simulation
[DE84-008487] 19 p3112 N84-29773
SLANGER, T. G.
The chemistry of nitrogen compounds in combustion processes
[AD-A139539] 14 p2123 N84-23723
SLATER, H. A.
Method of reducing temperature in high-speed photography
[NASA-TM-83620] 12 p1907 N84-22421
SLATER, J.
Technology development for tapered-wiggler free-electron lasers
[AD-A142319] 19 p3029 N84-29213
Tapered-wiggler free-electron laser oscillator program
[AD-A144053] 23 p3755 N84-33799
SLATER, P.
Spectroradiometric calibration of the Thematic Mapper and multispectral scanner system
[E84-10098] 13 p2004 N84-23000
SLATER, P. N.
In-flight absolute radiometric calibration of the thematic mapper
[E84-10044] 04 p0552 N84-13637
Spectroradiometric calibration of the thematic mapper and multispectral scanner system
[E84-10045] 04 p0552 N84-13638
In-flight absolute radiometric calibration of the thematic mapper
[E84-10064] 06 p0865 N84-15633
Spectroradiometric calibration of the thematic mapper and multispectral scanner system
[NASA-CR-175405] 11 p1671 N84-20905
In-flight absolute radiometric calibration of the Thematic Mapper 13 p2004 N84-23002
Spectroradiometric calibration of the Thematic Mapper and Multispectral Scanner system
[E84-10136] 16 p2506 N84-26084
In-flight absolute radiometric calibration of the Thematic Mapper 20 p3208 N84-30383
SLATTERY, J.
Performance of telecommunications systems in a random probabilistic environment. Task 1: Comparisons of spread-spectrum and conventional narrowband modulation methods
[PB84-158542] 17 p2655 N84-26979
SLAUGHTER, D. R.
Time-resolved beam-profile measurements on the Experimental Test Accelerator (ETA)
[DE84-002453] 07 p1072 N84-16969
SLAVIN, G. A.
Numerical solution of a generalized model of weld pool solidification
[NRC/CNR-TT-2076] 07 p1012 N84-16564
SLAVIN, J. A.
Solar cycle variations in the interplanetary magnetic field 03 p0469 N84-13091

SLAVIN, S. E.
Structural and electrochemical properties of platinum-titanium laser surface alloys
08 p1129 N84-17346
SLAVIN, V. S.
Closed energy cycle with MRD generator using T-layer effect
[AD-A131136] 02 p0242 N84-11583
SLBERBERG, R.
Heavy ions in space (M0001)
15 p2275 N84-24662
SLEAT, W. E.
Circular-scan photochron streak camera for spaceborne laser ranging applications 24 p3906 N84-34741
SLEDGE, F. R.
A finite element implementation of the dual variable method for the Navier-Stokes equations
22 p3592 N84-32746
SLEMP, W. S.
Space exposure of composite materials for large space structures (A0134) 15 p2271 N84-24639
Exposure of spacecraft coatings (S0010)
15 p2273 N84-24648
SLEMROD, M.
The 1-dimensional structured phase transformations under prescribed loads
[AD-A132807] 05 p0736 N84-14835
Deterministic chaos in materials exhibiting phase transitions
[AD-A135172] 08 p1158 N84-17537
Nonlinear systems in infinite dimensional state spaces
[AD-A136530] 09 p1384 N84-19042
SLEPYAN, A. Y.
High-Q open resonator structures with sparse spectrum 20 p3288 N84-30876
SLEPYAN, G. Y.
High-Q open resonator structures with sparse spectrum 20 p3288 N84-30876
SLESZYNSKI, N.
Arrays of very small voltammetric electrodes based on reticulated vitreous carbon
[AD-A134031] 05 p0674 N84-14426
SLETTEN, C. J.
Reflector antennas with low sidelobes, low cross polarization, and high aperture efficiency
[NASA-CR-174670] 21 p3383 N84-31464
SLICKER, J. M.
AC propulsion system for an electric vehicle, phase 2
[NASA-CR-168244] 21 p3390 N84-31514
SLIFKIN, L.
The 1982 International Congress of Photographic Science
[AD-A132372] 04 p0538 N84-13536
Fourth Europhysical Conference on Lattice Defects in Ionic Crystals
[AD-A132387] 04 p0612 N84-14039
SLINEY, H. E.
Durable solid lubricant coatings for foil gas bearings to 315 deg C
[NASA-TM-83596] 10 p1465 N84-19567
Status and new directions for solid lubricant coatings and composite materials 15 p2341 N84-25055
Evaluation of two polyimides and of an improved liner retention design for self-lubricating bushings
[NASA-TM-83719] 16 p2817 N84-27887
SLINEY, J. G., JR.
Flexible, resilient anti-contamination baffle
[AD-D011111] 22 p3542 N84-32421
SLINGO, A.
The cloudy marine boundary layer in the meteorological office climate model, appendix I
18 p2885 N84-28304
SLINKER, S.
Vibrational energy relaxation and dissociation in N2
[AD-A143606] 23 p3827 N84-34276
SLINKER, S. P.
Thermionic cathode, MITL (Magnetically Insulated Transmission Line) and auxiliary coils systems investigations for the modified betatron
[AD-A133757] 05 p0744 N84-14887
SLIWA, S. M.
An on-line equivalent system identification scheme for adaptive control
[NASA-TM-85737] 08 p1105 N84-17185
An on-line equivalent system identification scheme for adaptive control 21 p3343 N84-31213
SLIWAK, S. M.
Implications of control technology on aircraft design
11 p1615 N84-20573
SLIWINSKI, B. J.
Investigation of power factor controller applications
[AD-A144466] 24 p3898 N84-34686
SLOAN, C. E.
Hydrology of the North Slope, Alaska
14 p2166 N84-23973
SLOAN, E. D.
Liquid-vapor and solid-liquid-vapor phase equilibria in natural gas systems
[PB84-179191] 16 p2474 N84-25860
SLOAN, J. M.
Evaluation of the epoxy system for the repair of fuel tank M109
[AD-A136923] 10 p1467 N84-19583
SLOAN, S. W.
An implementation of Watson's algorithm for computing 2-dimensional Delaunay triangulations
[QUEL-1509/83] 15 p2391 N84-25345
SLOBODYANYUK, L. K.
The start-up of a gas turbine engine using compressed air tangentially fed onto the blades of the basic turbine
[NASA-TM-77021] 07 p1012 N84-16583
SLODERBACH, Z.
The effect of thermomechanical coupling in the case of a thick-wall sphere and tube subjected to internal pressure
[ISSN-0208-5658] 23 p3759 N84-33823
SLOMIANA, M.
A 3-dimensional finite element analysis of delamination growth in composite laminates. Part 1: The energy methods and case-study problems
[AD-A141248] 18 p2810 N84-27838
SLONE, R. J.
Utilization of SRC-2 fuel in an insulated diesel engine
[DE84-004386] 20 p3167 N84-30111
SLONIM, A.
Stability of physiological and psychological human functions under extreme environmental conditions
21 p3453 N84-31910
SLONSKI, M.
Advanced cogeneration research study: Executive summary
[NASA-CR-173467] 12 p1841 N84-22005
SLONSKI, M. L.
Survey of cogeneration: Advanced cogeneration research study
[NASA-CR-173454] 12 p1842 N84-22007
Alternative voice switching and control system display panel format simulation and evaluation
[NASA-CR-173644] 17 p2654 N84-26973
SLOOFF, J. W.
Computational methods for subsonic and transonic aerodynamic design 03 p0317 N84-12074
Application of computational procedures in aerodynamic design 03 p0318 N84-12078
Computational procedures in transonic aerodynamic design
[NLR-MP-82020-U] 06 p0783 N84-15131
Some new developments in exact integral equation formulations for sub- or transonic potential flow
[NLR-MP-82024-U] 06 p0903 N84-15860
Application of computational procedures in aerodynamic design
[NLR-MP-83012-U] 12 p1766 N84-21521
Computational methods for subsonic and transonic aerodynamic design
[AD-B079994] 12 p1767 N84-21524
SLOTER, L. E.
Beta titanium alloy metal-metal laminates: Fabrication, structure and mechanical properties
[AD-A130378] 01 p0043 N84-10278
SLOTNICK, D. L.
Research in the design of high-performance reconfigurable systems
[NASA-CR-173998] 24 p3942 N84-34957
SLOVAK, M. H.
An improved logarithmic amplifier circuit for PDS microdensitometers 18 p2841 N84-28034
SLOWEY, J. W.
A new model of the geomagnetic variation in the upper atmosphere
[AD-A135210] 08 p1187 N84-17733
Dynamic model of the Earth's upper atmosphere
[NASA-CR-3835] 22 p3624 N84-32965
SLUD, E.
Analysis of subpixel registration accuracy
03 p0394 N84-12570
Higher order crossings
[AD-A137086] 10 p1571 N84-20296
SLUDER, R. B.
Experiments on interaction of keV particle beams with the ionosphere
[AD-A143277] 22 p3623 N84-32957
SLUSHER, G. R.
Extinguisher agent behavior in a ventilated small aircraft
[FAA-CT-83-30] 07 p0949 N84-16158
SLUTZ, S. A.
Applied-B ion diode experiments on PBFA 1
[DE83-017792] 03 p0447 N84-12942
Diagnosing the ion beam on the applied-B diode
[DE83-017822] 03 p0447 N84-12943
Proto-I axial-focusing experiments
[DE84-000458] 04 p0599 N84-13951
Analysis of mechanisms for anode plasma formation in ion diodes
[DE83-017793] 04 p0608 N84-14010
Theoretical treatment of the current neutralization of high intensity light ion beams in argon
[DE84-000118] 05 p0745 N84-14893
SLUYEV, V. A.
Image input/output controller-interface based on 16-bit microprocessor 24 p3942 N84-34954
SMADI, M. M.
Time-dependent behavior of high-strength concrete sustained compressive stresses
[PB83-227041] 01 p0060 N84-10391
SMAGA, J. A.
Chemical stability of beta-aluminum
[DE84-009635] 22 p3560 N84-32545
SMAGINA, L. V.
Uracil and uridine photolysis on lunar soil
14 p2250 N84-24516
SMAGORINSKI, J.
The problem of climate and climate variations
[WCP-72] 18 p2886 N84-28312
SMALL, G. J.
Versatility of laser induced fluorescence line narrowing in chemical analysis
[DE84-012834] 21 p3360 N84-31316
SMALLEY, R. B., JR.
Space aging of solid rocket materials (P0005)
15 p2275 N84-24659
SMALLEY, R. E.
Supersonic metal cluster beams
[DE84-012976] 22 p3556 N84-32516
SMALLEY, R. F., JR.
A renormalization group model for the stick-slip behavior of faults
[NASA-CR-173362] 09 p1344 N84-18782
SMANIA, D. J.
A user-oriented microprocessor shell command language interpreter
[AD-A136809] 10 p1563 N84-20242
SMART, D. F.
Proceedings of the STIP (Study of Travelling Interplanetary Phenomena) Symposium on Solar Radio Astronomy, Interplanetary Scintillations and Coordination with Spacecraft
[AD-A130687] 01 p0165 N84-11087
SMART, J. R.
Profs' Doppler radar data processing system. Part 1: Design and implementation with application to NEXRAD algorithms
[PB84-165224] 14 p2182 N84-24073
SMART, M. J.
Manufacturing information system
[AD-A137891] 11 p1641 N84-20730
SMARTT, H. B.
Real-time ultrasonic sensing of arc welding processes
[DE84-005031] 21 p3415 N84-31657
SMEGGIL, J. G.
A study of adherent oxide formation
[AD-A139505] 14 p2123 N84-23722
SMELTZER, C. E.
High temperature metallic recuperator
[PB84-207869] 22 p3564 N84-32575
SMETANA, P.
Silicon crystal growing by oscillating crucible technique
[DE84-011038] 20 p3309 N84-31019
SMIALEK, J. L.
Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] 07 p0967 N84-16266
SMIALOWICZ, R. J.
Immunologic effects of electromagnetic fields (1981 - 1983)
[PB84-190602] 22 p3631 N84-33008
SMIDT, F. A.
The use of ion implantation for materials processing
[AD-A134457] 07 p1072 N84-16963
SMILEY, P. M.
Zinc selenide photoelectrodes. Efficient radiative recombination in a stable photoelectrochemical cell
[AD-A141869] 19 p3051 N84-29360
SMILOWITZ, K.
Programmable scan/read circuitry for charge coupled device imaging detectors
[NASA-CASE-NPO-15345-1] 13 p2042 N84-23247
SMIRNOFF, A. S.
Coordinated X-ray and ultraviolet observations of RU Lupi 24 p3978 N84-35199
SMIRNOV, A. M.
Autonomous microprocessor controllers for scientific research automation systems 24 p3941 N84-34948

SMIRNOV, B. Y.
Analysis of operation of frequency synthesizer of television receiver with micro-electronic computer in a control circuit 17 p2632 N84-26840
SMIRNOV, K. M.
Stress in work 21 p3454 N84-31921
SMIRNOV, K. V.
Human stomach motor and evacuatory functions during antiorthostatic hypokinesia 20 p3253 N84-30649
SMIRNOV, L. A.
Rules governing the distribution of a gas jet in a liquid. Communication 2
[BLL-M-35437-(5828.4)] 08 p1154 N84-17513
SMIRNOV, L. P.
Coupling of current and frequency-modulated noise in Gunn oscillators 17 p2636 N84-26865
SMIRNOV, L. V.
Critical current of the dispersion superconducting phase, obtained during aging
[AD-A136024] 09 p1396 N84-19118
SMIRNOV, Y. M.
Status of scientific research in field of computer technology in country's vuzes 24 p3940 N84-34943
SMIRNOV, Y. N.
Investigation of plane phased array of piezoelectric transducers with one-lobe directivity diagram 17 p2639 N84-26883
SMIRNOVA, L. J.
Method of production of nitrophosphates
[CSIR-TRANS-1689] 01 p0036 N84-10225
SMIRNOWA, L.
New acid-proof protective coating 14 p2136 N84-23806
SMIRONOVA, N. V.
Ion kinetics, minor neutral and excited components in D-region with high level of ionization 19 p2973 N84-28848
SMIT, J.
Quenched magnetite in cretaceous-tertiary boundary microtektite-like spheroid 11 p1755 N84-21459
SMITH, A.
An investigation into polymer design and synthesis for infrared energy absorption
[AD-A141265] 18 p2818 N84-27895
SMITH, A. D.
Demonstration of SQUID (Superconducting QUantum Interference Device) parametric amplifier
[AD-A141326] 18 p2834 N84-27992
SMITH, A. H.
Gravity, body mass and composition, and metabolic rate 09 p1355 N84-18854
Avian embryonic development in hyperdynamic environments
[NASA-CR-173339] 09 p1360 N84-18885
SMITH, A. J., JR.
Atmospheric emergencies: Existing capabilities and future needs
[PB83-250779] 05 p0701 N84-14602
SMITH, A. M.
The performance of 16000 wire mini-drift MWPC system 06 p0912 N84-15922
SMITH, B.
Initial graphics exchange specification test library, version 1.3
[PB84-102144] 08 p1214 N84-17922
SMITH, B. M.
IGES, a key interface specification for CAD/CAM systems integration 12 p1874 N84-22215
SMITH, B. R.
Wake characteristics and interactions of the Canard/wing lifting surface configuration of the X-29 forward-swept wing flight demonstrator
[AD-A133188] 06 p0783 N84-15126
SMITH, B. T.
FORTRAN 8X: A continuing language for numerical software
[DE83-014290] 01 p0124 N84-10809
Software parts in FORTRAN 8X
[DE84-003621] 07 p1055 N84-16833
SMITH, B. W.
Criterion for quasibrittle crack growth
[DE84-010052] 20 p3203 N84-30349
SMITH, C.
Lessons learned from FY82 US Army aviation mishaps
[AD-A131725] 03 p0328 N84-12137
Sensor head performance, responsivity and NETD using pyroelectric linear arrays
[RSRE-MEMO-3606] 09 p1317 N84-18605
SMITH, C. A.
Rotor/body aerodynamic interactions
[NASA-TM-85844] 02 p0174 N84-11143
Environmental degradation of solar optical materials, volume 2
[DE84-006505] 19 p3051 N84-29362
SMITH, C. F., JR.
Solar-array-materials passive LDEF experiment (A0171) 15 p2274 N84-24656
SMITH, C. J.
Hardware-in-the-loop simulation techniques used in the development of the Sea Harrier avionic system 06 p0774 N84-15071
SMITH, C. P.
Narrowband (LPC-10) vocoder performance under combined effects of random bit errors and jet aircraft cabin noise
[AD-A141333] 18 p2830 N84-27967
SMITH, C. R.
The effects of cylindrical surface modifications on turbulent boundary layers
[AD-A136296] 09 p1314 N84-18585
A synthesized model of the near-wall behavior in turbulent boundary layers
[AD-A137029] 10 p1493 N84-19764
Experimental observations of vortex ring interaction with the fluid adjacent to a surface
[AD-A138999] 13 p1990 N84-22917
Theoretical and experimental investigation of coherent structure in the turbulent boundary layer
[AD-A140517] 16 p2493 N84-25996
SMITH, C. V.
Orthotropic hole element 06 p0859 N84-15595
SMITH, C. W.
Water entry impact shock on flat faced cylindrical missiles
[AD-A131937] 03 p0371 N84-12419
An integral optical method for determining stress intensity factors 15 p2311 N84-24866
Study of aerodynamic technology for single-cruise-engine VSTOL fighter/attack aircraft, phase 1
[NASA-CR-166268] 18 p2788 N84-27693
Large amplitude MHD waves upstream of the Jovian bow shock: Reinterpretation
[NASA-TM-86131] 21 p3525 N84-32333
SMITH, D.
Characterization by X-ray topography of laser-induced damage in potassium dihydrogen phosphate crystals
[DE83-012045] 03 p0454 N84-12985
Ionic reactions of atmospheric importance
[AD-A137166] 11 p1683 N84-20981
Space simulation testing of the Earth Radiation Budget Satellite (ERBS) 24 p3861 N84-34471
SMITH, D. A.
Acceleration of convergence of vector sequences
[NASA-TP-2193] 04 p0588 N84-13885
SMITH, D. B.
Airloads research study. Volume 1: Flight test loads acquisition
[NASA-CR-170409] 08 p1103 N84-17173
Airloads research study. Volume 2: Airload coefficients derived from wind tunnel data
[NASA-CR-170410] 08 p1103 N84-17174
SMITH, D. E.
A statistical examination of the effect of composition on the freezing points of hydro-carbon mixtures
[AD-A131000] 02 p0203 N84-11321
Design of experiments in simulation
[AD-A137229] 10 p1562 N84-20236
Research on factor screening in computer simulation
[AD-A139825] 15 p2392 N84-25353
Update: San Andreas Fault experiment 20 p3220 N84-30456
Sensitivity of SLR baselines to errors in Earth orientation 20 p3220 N84-30461
SMITH, D. J.
Characterization of micron-sized, optical coating defects by photothermal deflection microscopy
[DE84-011150] 20 p3301 N84-30960
SMITH, D. J. V.
Advanced Ultra-Violet (UV) aircraft fire detection system. Volume 3: Ground Support Equipment (GSE) for system check-out
[AD-A130298] 01 p0006 N84-10039
SMITH, D. L.
Corrosion of ferrous alloys in eutectic lead-lithium environments
[DE84-000593] 04 p0502 N84-13292
Influence of a flowing-lithium environment on the fatigue and tensile properties of type 316 stainless steel
[DE84-000611] 04 p0503 N84-13295
Evaluation of point precipitation probability forecasts using radar estimates of rainfall areal coverage
[PB84-121060] 09 p1350 N84-18821
Speeding up the help hydrodynamic code
[MRL-R-925] 16 p2543 N84-26321
Liquid metal breeder-coolant blanket concept
[DE84-006554] 20 p3302 N84-30971
Uncertainty covariances in robotics applications
[DE84-013417] 22 p3605 N84-32843
Autogenerator of beams of charged particles
[DE84-014242] 22 p3654 N84-33163
SMITH, D. M.
Filler bar heating due to stepped tiles in the shuttle orbiter thermal protection system 01 p0024 N84-10155
Appraisal of scientific resources for emergency management
[AD-A133285] 06 p0933 N84-16062
SMITH, D. R.
A numerical investigation of the multiple vortex phenomenon: Vortex number and structure as a function of swirl ratio 06 p0931 N84-16049
SMITH, D. V.
Contract audit followup: Its impact on defense contracting
[AD-A140627] 17 p2770 N84-27587
SMITH, D. W.
The 30 GHz communications satellite low noise receiver
[NASA-CR-168254] 04 p0517 N84-13398
SMITH, D. Y.
Host-lattice effects in the spin-orbit fine structure of vacancy-trapped electrons
[DE84-000599] 04 p0614 N84-14052
SMITH, E. E.
Applied cognitive science
[AD-A136780] 10 p1554 N84-20185
SMITH, E. J.
Solar cycle variations in the interplanetary magnetic field 03 p0469 N84-13091
Multiple spacecraft observations of interplanetary shocks: Characteristics of the upstream ULF turbulence 03 p0470 N84-13097
Spatial dependences in the distant solar wind: Pioneers 10 and 11 03 p0472 N84-13107
Plasma properties of driver gas following interplanetary shocks observed by ISEE-3 03 p0474 N84-13123
The ISPM mission: Science objectives and mission overview 09 p1260 N84-18229
The magnetic-field investigation on ISPM 09 p1260 N84-18230
The ISPM common data file 09 p1263 N84-18245
Magnetic field draping against the dayside magnetopause 16 p2573 N84-26514
SMITH, E. L.
Operations manual for the data acquisition and reduction system, Area III Actuator Test Facility
[DE84-008906] 19 p3116 N84-29803
SMITH, E. P.
Temperature profiles from Salt Valley, Utah
[DE84-900996] 21 p3444 N84-31854
SMITH, G.
Automotive Stirling engine development program
[NASA-CR-168205] 08 p1242 N84-18117
Automotive Stirling engine development program
[NASA-CR-174622] 21 p3521 N84-32305
Ultraviolet and optical observations of metal deficient red giants and chromospheric models 24 p3974 N84-35166
SMITH, G. A.
Space commercialization
[GPO-26-498] 08 p1107 N84-17194
Storm severity detecion (RF) 24 p3927 N84-34857
SMITH, G. B.
Shape from shading: An assessment 03 p0394 N84-12574
SMITH, G. C.
Channel electron multiplier and optically coupled amplifier used as an incident-flux monitor
[DE84-001451] 04 p0538 N84-13539
High accuracy gaseous X-ray detectors
[DE84-003677] 07 p1008 N84-16538
SMITH, G. C. C.
Finite element forced vibration analysis of rotating cyclic structures
[NASA-CR-165430] 02 p0231 N84-11515
NASTRAN flutter analysis of advanced turbopropellers
[NASA-CR-167926] 05 p0631 N84-14148
Acoustical modes of arbitrary volumes using NASTRAN transient heat transfer RF9 06 p0859 N84-15597
An alternative method of analysis for base accelerated dynamic response in NASTRAN 06 p0859 N84-15598
NASTRAN forced vibration analysis of rotating cyclic structures
[NASA-CR-173821] 19 p3035 N84-29252
SMITH, G. E.
Inflatable device for installing strain gage bridges
[NASA-CASE-FRC-11068-1] 03 p0375 N84-12443
SMITH, G. F.
The NESDIS-SEL Lear aircraft instruments and data recording system
[NOAA-TR-NESDIS-9] 17 p2607 N84-26698

SMITH, G. I.
An isotopic and chemical study of Lake Vanda and Don Juan Pond, Antarctica 14 p2163 N84-23952
Climatic significance of lacustrine deposits around Lake Vanda and Don Juan Pond, Antarctica 14 p2163 N84-23953
SMITH, G. P.
Laser probes of propellant combustion chemistry [AD-A140767] 17 p2628 N84-26814
SMITH, G. R.
Microstability theory for distributions separable in energy and pitch angle [DE84-009683] 20 p3305 N84-30991
SMITH, G. T.
Resin selection criteria for tough composite structures [NASA-TM-83449] 01 p0048 N84-10310
SMITH, G. V.
An analysis of the interaction between a submerged jet and a receiver-diffuser in a reverse-flow diverter [DE83-012593] 04 p0536 N84-13521
SMITH, H. A.
Storage of synthetic turbine lubricants under adverse conditions [AD-A132226] 04 p0506 N84-13319
NGC 2024: Far-infrared and radio molecular observations [NASA-TM-85954] 16 p2575 N84-26524
The energetics and mass structure of regions of star formation [NASA-TM-85953] 16 p2575 N84-26525
The nature of AFGL 2591 and its associated molecular outflow: Infrared and millimeter-wave observations [NASA-TM-85963] 16 p2575 N84-26526
W3 North: Far-infrared and radio molecular observations [NASA-TM-85961] 17 p2774 N84-27615
SMITH, H. D.
Wide spectrum antireflective coating for laser fusion systems [DE84-013211] 22 p3601 N84-32814
SMITH, H. I.
Submicron structures technology and research 22 p3683 N84-33353
SMITH, H. J.
NASA-Texas Planetary Program [NASA-CR-173798] 19 p3121 N84-29842
SMITH, H. J. P.
SMM-UVSP ozone profile inversion programs [NASA-CR-175216] 10 p1533 N84-20042
SMITH, H. M.
Shelf life determination of an epoxy resin by accelerated aging [DE84-006048] 14 p2121 N84-23709
SMITH, I. D.
Iron nitrate and MON-3 nitrogen tetroxide 20 p3136 N84-29909
Pulsed power for racetrack induction accelerators [AD-A143289] 22 p3653 N84-33157
SMITH, J.
NGC 2024: Far-infrared and radio molecular observations [NASA-TM-85954] 16 p2575 N84-26524
The energetics and mass structure of regions of star formation [NASA-TM-85953] 16 p2575 N84-26525
SMITH, J. A.
Space shuttle orbiter reusable surface insulation flight results 01 p0025 N84-10157
Reflectance modeling 12 p1830 N84-21931
Empirical and dynamic modes in the CCS (California current system) [AD-A141047] 18 p2892 N84-28357
The 100 area diesel performance data [DE84-011136] 21 p3414 N84-31648
SMITH, J. B.
Vehicular pressure measuring system [DE84-003426] 07 p1008 N84-16536
SMITH, J. E.
A parametric study of surface transformation hardening with high-power lasers [AD-A140160] 16 p2497 N84-26023
SMITH, J. E., JR.
Determination of systems suitable for study as monotectic binary metallic alloy solidification models 06 p0931 N84-16050
SMITH, J. F.
Absolute determination of stress in textured materials [DE83-018083] 04 p0550 N84-13621
SMITH, J. H.
Summary of photovoltaic system performance models [NASA-CR-173737] 18 p2870 N84-28220
SMITH, J. H. B.
Theoretical modelling of three-dimensional vortex flows in aerodynamics 03 p0324 N84-12116
Theoretical modelling of three-dimensional vortex flows in aerodynamics [AD-A134966] 17 p2667 N84-27007
Behaviour of a vortex sheet separating from a smooth surface [RAE-TR-77058] 18 p2836 N84-27998
SMITH, J. J.
International Meeting on Lithium Batteries [AD-A132371] 04 p0525 N84-13455
SMITH, J. K.
Encapsulated multifunction corrosion inhibitive primer [AD-A144311] 24 p3889 N84-34626
SMITH, J. L.
Advanced fuel-cell development [DE84-002685] 05 p0676 N84-14445
Impurities in the heavy-Fermion superconductor UBe13 [DE84-001731] 05 p0755 N84-14951
Superconducting ground state of a strongly interacting electron system: UBe13 [DE84-001708] 06 p0923 N84-16003
Shock response spectra variational analysis for pyrotechnic qualification testing of flight hardware [NASA-TP-2315] 14 p2115 N84-23676
Magnetohydrodynamic power generation [NASA-TP-2331] 15 p2409 N84-25458
Pyrotechnic shock: A literature survey of the Linear Shaped Charge (LSC) [NASA-TM-82563] 18 p2852 N84-28109
Molten carbonate fuel cell cathode development [DE84-012101] 21 p3395 N84-31544
Radial SI latches vibration test data review [NASA-TM-86454] 21 p3412 N84-31638
Electronically conductive ceramics for high temperature oxidizing environments [DE84-014506] 22 p3561 N84-32549
Effects of expiration of the Federal energy tax credit on the National Photovoltaics Program [NASA-CR-173900] 22 p3675 N84-33299
SMITH, J. M.
Preliminary investigation of a two-zone swirl flow combustor [NASA-TM-83637] 13 p1932 N84-22565
Experimental investigation of the low NO/sub x vortex airblast annular combustor [NASA-TM-83615] 13 p1932 N84-22567
SMITH, J. O.
Electric Remotely Piloted Vehicle (ERPV) [AD-A136201] 09 p1310 N84-18563
SMITH, J. R.
Charge state resolved energy spectra of He, N, Ar, and Ne ions 10 p1582 N84-20366
Study of electron beam production by a plasma focus 10 p1582 N84-20367
Metallic adhesion and bonding 14 p2153 N84-23897
Experimental and modeling study of engine knock [DE84-006134] 22 p3606 N84-32844
SMITH, J. S.
Learning from numerical calculations of ion-atom collisions [DE84-003265] 08 p1229 N84-18035
SMITH, K. C.
Cryomicrotome applications: Techniques for the study of skeletal materials [AD-A137010] 10 p1545 N84-20130
Low power 2-of-3-valued CMOS self-checking circuits [AD-P002334] 14 p2190 N84-24125
SMITH, K. F.
Army helicopter crashworthiness 06 p0777 N84-15090
SMITH, K. O.
Ceramic heat exchanger design methodology [DE84-010581] 21 p3370 N84-31385
SMITH, L. B.
Advanced Gas Turbine (AGT): Power-train system development [NASA-CR-168056] 01 p0089 N84-10581
SMITH, L. C.
Effects of variations in heat treatment on the mechanical properties and microstructure of ASTM A710 Grade A Class 3 steel [AD-A136328] 09 p1282 N84-18371
SMITH, L. E.
Polymer Science and Standards Divisions report, 1983 14 p2130 N84-23773
SMITH, L. N.
S-I-S mm-wave mixers and detectors [AD-A134762] 08 p1235 N84-18074
Tunneling through amorphous silicon barriers [AD-A135866] 09 p1395 N84-19110
SMITH, L. W.
Grid flexibility and patching techniques 11 p1610 N84-20540
SMITH, M.
Magnetic switching [DE83-012952] 03 p0433 N84-12841
SMITH, M. E.
Danish crystal-growth experiment aboard Spacelab 05 p0634 N84-14171
A preliminary study of the feasibility of detecting long-term trends in atmospheric humidity [DE84-006417] 14 p2180 N84-24055
Measurement of local convective heat transfer coefficients of four ice accretion shapes [NASA-CR-174680] 16 p2439 N84-25648
SMITH, M. G.
Joint Atomic Information Exchange Group information management project. Briefing outlining functions and specifications of JAIEG automated information management system [DE84-001800] 06 p0936 N84-16082
Joint Atomic Information Exchange Group information management project. Task 2 briefing document. System specification and hardware/software purchase recommendations for JAIEG automated information management system [DE84-001798] 06 p0936 N84-16083
SMITH, M. J.
Spectral power density extrema for microwave emission from a relativistic reflex triode [AD-A139771] 15 p2329 N84-24984
Measurement of the horizontal velocity of wind perturbations in the middle atmosphere by spaced MF radar systems 17 p2688 N84-27121
SMITH, M. J. T.
Aircraft noise legislation: An overkill [PNR-90167] 13 p2010 N84-23037
A procedure for designing exact reconstruction filter banks for tree-structured subband coders [AD-A142345] 20 p3173 N84-30150
SMITH, M. M.
Chemistry and application of ozone and ozone/UV light for water reuse-2 [PB84-140557] 11 p1630 N84-20664
SMITH, M. P.
Synthetic aperture radar images of ocean waves, theories of imaging physics and experimental tests 17 p2714 N84-27275
SMITH, M. R.
Data management for Computer-Aided Engineering (CAE) 12 p1890 N84-22306
SMITH, M. S.
Policy and legal issues involved in the commercialization of space [GPO-21-495] 01 p0183 N84-11069
Design and initial operational characteristics of a shock tube-Raman scattering calibration system [AD-A133251] 06 p0847 N84-15525
SMITH, M. W.
Aids to navigation radar 1 principal findings: Performance in limited visibility of short range aids with passive reflectors [AD-A137596] 11 p1604 N84-20507
SMITH, N.
Atomic resonance and scattering 22 p3681 N84-33339
SMITH, O. E.
Some properties of a 5-parameter bivariate probability distribution [NASA-TM-82550] 08 p0904 N84-15866
A note on the ratio of positively correlated gamma variates 10 p1573 N84-20305
A differential equations approach to the modal location for a family of bivariate gamma distributions 10 p1573 N84-20307
SMITH, P. H.
Investigation of the electrochemical formation of Li-C intercalation compounds [AD-A130879] 01 p0037 N84-10233
Pilot climate data system: A state-of-the-art capability in scientific data management [NASA-TM-85115] 06 p0881 N84-15731
SMITH, P. J.
Research on computer aided testing of pilot response to critical in-flight events [NASA-CR-173871] 21 p3460 N84-31945
Utilization of satellite cloud information to diagnose the energy state and transformations in extratropical cyclones 24 p3925 N84-34846
SMITH, P. M.
Simulator study of flight characteristics of a large twin-fuselage cargo transport airplane during approach and landing [NASA-TP-2183] 03 p0337 N84-12190
SMITH, P. R.
Manufacturing information system [AD-A137891] 11 p1641 N84-20730

High-efficiency particulate air filter behavior at high-speed flows
[DE84-014137] 22 p3595 N84-32769
SMITH, P. W.
On the grid generation methods in harmonic mapping on plane and curved surfaces
[NASA-CR-172331] 12 p1883 N84-22327
Nonlinear optical interfaces 14 p2233 N84-24396
Room temperature optical nonlinearities in GaAs multiple quantum wells 14 p2235 N84-24408
Optical bistability based on self-focusing 14 p2237 N84-24424
SMITH, R.
A jet fuel starter for lowest system life cycle cost 03 p0335 N84-12179
Quality assurance of heat-fused polyethylene plastic pipe joints, phase 2
[PB84-104942] 08 p1188 N84-17608
A laboratory manual for the determination of metals in water and wastewater by atomic absorption spectrophotometry
[CSIR-TECH-GUIDE-K63] 11 p1628 N84-20653
SMITH, R. A.
Evidence for acid-precipitation-induced trends in stream chemistry at hydrologic bench-mark station
[USGS-CIRC-910] 10 p1531 N84-20029
Simulation of T-38 aircraft student canopy response to cockpit pressure and thermal loads using MAGNA (Materially and Geometrically Nonlinear Analysis)
[AD-P003231] 17 p2597 N84-26844
SMITH, R. A. C.
A dynamic approach to military avionics systems testing 06 p0774 N84-15075
SMITH, R. D.
Supercritical fluid methods in analytical chemistry
[DE84-008289] 15 p2288 N84-24726
Integrated Application of Active Controls (IAAC) technology to an advanced subsonic transpot project-demonstration act system definition
[NASA-CR-165920] 19 p2967 N84-28804
SMITH, R. E.
Flight test experience with pilot-induced-oscillation suppression filters
[NASA-TM-86026] 07 p0958 N84-16213
High-temperature, high-pressure optical cell
[NASA-CASE-MFS-26000-1] 07 p1075 N84-16986
Surface grid generation for wing-fuselage bodies 12 p1870 N84-22186
Geotechnical and geologic design considerations for a shelf mounted OTEC (Ocean Thermal Energy Conversion) facility
[PB84-186147] 20 p3238 N84-30554
Aerothermal loads analysis for high speed flow over a quilted surface configuration
[NASA-TM-86280] 21 p3399 N84-31560
Severe storm initiation and dvelopment from satellite infrared imagery and Rawinsonde data 24 p3929 N84-34872
SMITH, R. F.
Wind turbine generator interaction with conventional diesel generators on Block Island, Rhode Island. Volume 1: Executive summary
[NASA-CR-168318] 19 p3050 N84-29357
Wind turbine generator interaction with conventional diesel generators on Block Island, Rhode Island. Volume 2: Data analysis
[NASA-CR-168319] 21 p3433 N84-31783
SMITH, R. H.
Concepts for LHX avionics
[AD-P003575] 21 p3338 N84-31180
SMITH, R. J.
Structure in the interstellar polarization curve and the nature of the polarizing grains 16 p2572 N84-26507
Structure in the interstellar polarization curve and the nature of the polarizing grains 18 p2950 N84-28706
SMITH, R. K.
Walk-through survey report: Control technology for integrated circuit fabrication, Xerox Corporation, El Segundo, California
[PB83-239053] 03 p0359 N84-12333
SMITH, R. L.
Orbit determination and prediction study for Dynamic Explorer 2
[NASA-TM-85098] 02 p0183 N84-11192
A comparison of the ultrasonic attenuation of Fe-C alloys in the annealed, normalised and quenched states
[AERE-R-10956] 18 p2929 N84-28573
SMITH, R. P.
Operational studies and expected performance of superconducting quadrupole magnets in the first stages of secondary beams
[DE83-016734] 03 p0456 N84-12999
SMITH, R. S., III
Dynamic spacecraft simulators in military space ground systems
[AD-P002159] 14 p2139 N84-23825
SMITH, S.
Integrated Computer-Aided Manufacturing (ICAM) architecture part 3. Volume 1: Architecture part 3: Accomplishments
[AD-A134249] 07 p1055 N84-16829
Integrated Computer-Aided Manufacturing (ICAM) architecture. Part 3, volume 2: Procedures
[AD-A137422] 10 p1563 N84-20240
Integrated Computer-Aided Manufacturing (ICAM) architecture, part 3. Volume 5: Composite function model of manufacture product (MFG0)
[AD-A142337] 20 p3272 N84-30766
Integrated Computer-Aided Manufacturing (ICAM) architecture. Part 3, volume 4: Composite information model of design product (DES 1)
[AD-A142447] 20 p3273 N84-30774
Integrated Computer-Aided Manufacturing (ICAM) architecture. Part 3, Volume 6: Composite information model of 'Manufacture product' (MFG1)
[AD-A143072] 21 p3466 N84-31973
SMITH, S. D.
Studies of electrically stimulated rat limb and peripheral nerve regeneration
[AD-A134358] 08 p1197 N84-17806
Room temperature optical bistability in semiconductors and realization of optical and gates 14 p2233 N84-24393
SMITH, S. F.
Exploiting temporal knowledge to organize constraints
[AD-A133417] 06 p0899 N84-15838
ISIS: A constraint-directed reasoning approach to job shop scheduling
[AD-A133296] 06 p0933 N84-16063
SMITH, S. G.
Reference systems for the evaluation of dead-reckoning navigation equipment 24 p3848 N84-34406
SMITH, S. L.
User-system interface design in system acquisition
[AD-A140956] 18 p2943 N84-28664
SMITH, S. R.
Products from the detonation of trinitrotoluene in air and nitrogen
[AD-A137809] 11 p1639 N84-20713
Atmospheric turbulence simulation for Shuttle orbiter
[NASA-CR-171013] 13 p1938 N84-22602
SMITH, S. W.
Internal noise of low-frequency preamplifiers
[AD-A131532] 02 p0213 N84-11398
Electrode noise in beta aluminas
[AD-A134837] 08 p1152 N84-17497
Spectral averaging and low-frequency sampling modifications for the IQS 401 FFT (Fast Fourier Transform) spectrum analyzer
[AD-A141181] 18 p2834 N84-27990
Pore-forming fillers for molten carbonate matrices
[DE84-014509] 23 p3715 N84-33551
SMITH, T.
Activities of the Remote Sensing Information Sciences Research Group
[E84-10177] 21 p3427 N84-31739
Low-Altitude Database Development Evaluation and Research (LADDER)
[AD-P003468] 21 p3511 N84-32243
SMITH, T. B., III
Development and evaluation of a fault-tolerant multiprocessor (FTMP) computer. Volume 4: FTMP executive summary
[NASA-CR-172286] 15 p2395 N84-25366
SMITH, T. R.
Applying artificial intelligence to large networks 21 p3428 N84-31743
Knowledge-based expert systems for crop identification 21 p3428 N84-31744
SMITH, V. E.
Dynamic mass balance of PCB (polychlorinated biphenyls) and suspended solids in Saginaw Bay: A case study
[PB83-250306] 04 p0561 N84-13699
SMITH, V. V.
An abundance analysis of the cool barium stars 04 p0620 N84-14087
SMITH, W. A., JR.
Electronics/electrical manufacturing industry research needs
[PB84-122969] 11 p1648 N84-20774
SMITH, W. B.
Discrimination relative to measures of non-normality 03 p0393 N84-12566
SMITH, W. E.
An ensemble formulation of PBL fluxes in a GCM 12 p1858 N84-22102
Influence of surface roughness of a desert 12 p1859 N84-22109
Role of soil moisture in maintaining droughts 12 p1859 N84-22110
SMITH, W. H.
Copernicus observational searches for OH and H2O in diffuse clouds
[NASA-CR-170601] 02 p0305 N84-12004
Evaluation of eye movement training for Navy pilots
[AD-A139489] 14 p2185 N84-24091
Surplus Facilities Management Program. Post-remedial-action survey report for SNAP-8 Experimental Reactor Facility, building 010 site, Santa Susana Field Laboratories, Rockwell International, Ventura County, California
[DE84-009591] 21 p3497 N84-32165
SMITH, W. L.
A statistical technique for forecasting severe weather from vertical soundings by satellite and radiosonde
[PB84-114099] 08 p1192 N84-17772
The advantages of sounding with the smaller detectors of the VISSR atmospheric sounder
[NOAA-TM-NESDIS-6] 20 p3240 N84-30571
Evaluation and development of new VAS remote sensing algorithms 24 p3933 N84-34894
SMITH, W. R.
Raman scattering temperature measurements for water vapor in nonequilibrium dispersed two-phase flow
[DE83-900107] 01 p0080 N84-10522
SMITH, W. W.
Study of auxiliary propulsion rsquirements for large space systems. Volume 1: Executive summary
[NASA-CR-168193-VOL-1] 03 p0343 N84-12226
Study of auxiliary propulsion requirements for large space systems, volume 2
[NASA-CR-168193-VOL-2] 04 p0490 N84-13218
Factors that influence space station propulsion requirements 20 p3139 N84-29931
SMITHER, R. K.
Search for doubly-charged negative ions via accelerator mass spectrometry
[DE83-014321] 01 p0038 N84-10243
SMITHERS, B. W.
Investigation of the RF properties of carbon fibre composite materials
[AD-A140261] 16 p2461 N84-25774
SMITHRICK, J. J.
Advanced designs for IPV nickel-hydrogen cells
[NASA-TM-83643] 13 p2008 N84-23025
Oxygen recombination in individual pressure vessel nickel-hydrogen batteries
[NASA-CASE-LEW-13822-1] 19 p3011 N84-29084
SMITHSON, R. C.
Solar magnetic fields study
[AD-A130491] 01 p0166 N84-11088
SMITS, K.
Analysis of airborne electromagnetic systems for mapping thickness of sea ice
[AD-A139786] 15 p2373 N84-25235
SMITS, R. G.
Cryogenic testing of the TPC superconducting solenoid
[DE84-000528] 04 p0527 N84-13467
SMOKLER, M. I.
Qualification tests and electrical measurements: Practice and problems 22 p3585 N84-32703
SMOLENSKY, P.
Harmony theory: A mathematical framework for stochastic parallel processing
[AD-A137883] 11 p1714 N84-21178
Harmony theory: Problem solving, parallel cognitive models and thermal physics
[AD-A140877] 17 p2759 N84-27515
SMOLINSKI, R. E.
Development of a high efficiency compressor/expander for an air cycle air conditioning system
[AD-A130976] 02 p0229 N84-11502
SMOLOV, V. B.
Microprocessor devices for analog signal processing 18 p2824 N84-27928
Microprocessors for analog signal processing 24 p3941 N84-34947
High-performance specialized processors for calculation of elementary and special functions 24 p3941 N84-34950
SMOLSKIY, O. V.
New phase transition in Si and GaAs exposed to picosecond laser pulses 20 p3286 N84-30866
SMOLYAKOVA, L. A.
Fluctuations in chemical composition of titanium alloy Beta-solid solution in preseparation stage 12 p1786 N84-21650
SMOLYANITSKIY, A. G.
Obtaining yeast vector marked by mutation of multiple antibiotic resistance 23 p3806 N84-34133
SMOORENBURG, G. F.
Technique for measuring the sound pressure levels under flying helmets and headsets
[IZF-1982-39] 02 p0269 N84-11765

The audiomat: An automatic audiometer to be used in occupational audiometry
[IZF-1983-17] 12 p1900 N84-22372
Annoyance ratings for impulse and traffic sounds presented in quiet surroundings
[IZF-1983-23] 12 p1900 N84-22373
Annoyance ratings for impulse and traffic sounds at two different background noise levels
[IZF-1983-27] 17 p2725 N84-27345

SMOOT, A.
Safety-related requirements for photovoltaic modules and arrays
[NASA-CR-173747] 18 p2868 N84-28208

SMOOTZ, E. R.
Battery Computer System (BCS) human factors field evaluation
[AD-A143425] 22 p3638 N84-33062

SMORTO, M. J.
High yield wind energy resources in the mid-Hudson River basin
[PB84-184951] 20 p3234 N84-30530

SMOVZH, A. K.
Calculating electric fields in semiconductor structures when singularities are present 21 p3479 N84-32051

SMULLIN, L. D.
Plasma dynamics 22 p3683 N84-33354

SMY, J. R.
Introduction and review of some jet interference phenomena relevant to V/STOL aircraft 16 p2436 N84-25626

SMYK, E. B.
Structure of convective surface deposits and effect on MHD steam-plant design
[DE83-010757] 03 p0446 N84-12931

SMYLY, H. M.
Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-15429-1] 13 p1939 N84-22609
Bellows flow-induced vibrations
[NASA-TM-82556] 13 p1989 N84-22912

SMYRE, J. L.
Estimation of small area populatons using remote sensing and other approaches
[DE84-003404] 08 p1178 N84-17678

SMYTH, J. R.
Contact-stress analysis of elastic-viscoelastic interface conditions
[AD-A138834] 13 p1964 N84-22759

SMYTH, W. H.
Io: Escape and ionization of atmospheric gases
[NASA-CR-174580] 05 p0702 N84-14607
Outer satellite atmospheres: Their extended nature and planetary interactions
[NASA-CR-174579] 05 p0764 N84-15013
Outer satellite atmospheres: Their extended nature and planetary interactions
[NASA-CR-173395] 12 p1922 N84-22524
A modeling analysis program for the JPL Table Mountain Io sodium cloud data
[NASA-CR-173971] 23 p3844 N84-34386

SMYTHE, M. E.
Thermal oxidative degradation reactions of perfluoroalkiethers
[NASA-CR-168224] 02 p0189 N84-11229

SNAPE, D. M.
The design and development of a low emissions Transply combustor for the civil Spey engine
[PNR-90198] 13 p1934 N84-22582
The design and development of a low emissions transply combustor for the civil Spey engine 15 p2292 N84-24755

SNAPP, M. R.
An evaluation of an automatic cell detection and tracking algorithm
[AD-A130088] 01 p0107 N84-10694

SNECK, H. J.
Physical modeling of the champagne effect
[DE84-001813] 04 p0516 N84-13388

SNEERINGER, M. R.
Exploration and drilling for geothermal heat in the Capital District, New York
[PB84-153162] 14 p2173 N84-24016

SNELL, C.
A multipurpose production controller for plasma physics codes
[LA-9477-MS] 06 p0920 N84-15978

SNELLING, K. S.
Certification experience of the Jaguar fly-by-wire demonstrator aircraft integrated flight control system 06 p0777 N84-15095

SNIDER, M. A.
CEREAS: An interactive computer-mapping system for environmental assessments
[DE83-017927] 04 p0585 N84-13864

SNIEGOSKI, P. J.
Method and apparatus for determination of lubricant stability
[AD-D011193] 24 p3887 N84-34615

SNIJDERS, C. J.
On Froude's number and the thickness of bones during growth 23 p3807 N84-34139

SNIJDERS, M. A. J.
Ultraviolet observations of normal galaxies 24 p3970 N84-35136
The broad absorption line region in NGC 4151 24 p3971 N84-35146

SNIPES, J. A.
Observations of soft X-ray fluctuations with an imaging array on TEXT
[DE83-018118] 03 p0447 N84-12938

SNIPES, M. B.
Status of research in progress at the Inhalation Toxicology Research Institute
[DE83-012610] 06 p0875 N84-15694

SNKOLLER, B.
Surface wave path corrections, deterministic discrimination and body wave attenuation
[AD-A133574] 06 p0878 N84-15714

SNOECK, J.
Two dimensional condensing flow in transonic turbine cascades 06 p0841 N84-15484

SNOVER, K. A.
Giant dipole resonances built on excited states
[DE84-001549] 06 p0916 N84-15954

SNOW, A.
Poly(ethylene maleate) - cyclopentadiene: A model reactive polymer-vapor system for evaluation of a SAW (Surface Acoustic Wave) microsensor
[AD-A141531] 19 p2999 N84-29001

SNOW, A. W.
Phthalocyanine derivatives specifically designed for fabrication of organic semiconductor gas sensors
[AD-A130611] 01 p0083 N84-10540

SNOW, C. C.
Anthropometric and mass distribution characteristics of the adult female, revised
[AD-A143096] 21 p3457 N84-31939

SNOW, D. B.
A study of the dependence of microsegregation on critical solidification parameters in rapidly-quenched structures
[AD-A142293] 20 p3153 N84-30019

SNOW, J. B.
Rotational CARS application to simultaneous and multiple-point temperature and concentration determination in a turbulent flow
[NASA-CR-175334] 07 p1001 N84-16489
Rotational cars application to simultaneous and multiple-point temperature and concentration determination in a turbulent flow
[NASA-CR-3783] 09 p1385 N84-19044

SNOW, R. N.
An extended real-time microwave airplane position system 24 p3850 N84-34419

SNOW, T. P., JR.
Copernicus observational searches for OH and H2O in diffuse clouds
[NASA-CR-170601] 02 p0305 N84-12004

SNOW, W. L.
Video model deformation system for the National Transonic Facility
[NAS 1.15:85681] 02 p0222 N84-11457

SNOWDON, S. C.
Magnetic-field considerations in superferric dipole
[DE84-002573] 06 p0907 N84-15892

SNOWDON, T.
Optical thickness as related to pollutant episodes and the concentration of visibility degrading pollutants
[NASA-CR-175203] 10 p1531 N84-20028

SNYDER, B. C.
Superplastic bonding and ultrahigh carbon steel laminated composites
[AD-A137807] 11 p1627 N84-20651

SNYDER, C. E., JR.
Perfluoroalkylether substituted phenyl phosphines
[AD-D011122] 22 p3558 N84-32529

SNYDER, C. M.
Catalog of selected heavy duty transport energy management models
[NASA-CR-168299] 05 p0761 N84-14991

SNYDER, D. B.
Discharges on a negatively biased solar array in a charged particle environment
[NASA-TM-83644] 14 p2118 N84-23690
Characteristics of arc currents on a negatively biased solar cell array in a plasma
[NASA-TM-83728] 18 p2807 N84-27824

SNYDER, F. W.
Increased readiness through modularity
[AD-P003491] 21 p3514 N84-32257

SNYDER, G.
Learning the Ada (trademark) integrated environment
[AD-P003417] 20 p3270 N84-30749

SNYDER, G. C.
Planetary geometry handbook: Venus positional data, 1988 - 2020, volume 2
[NASA-CR-173192] 07 p1091 N84-17096
Planetary geometry handbook: Mars positional data, 1990 - 2020, volume 3
[NASA-CR-173193] 07 p1091 N84-17097
Planetary geometry handbook: Jupiter positional data, 1985 - 2020, volume 4
[NASA-CR-173194] 07 p1091 N84-17098
Planetary geometry handbook: Saturn positional data, 1985 - 2020, volume 5
[NASA-CR-173195] 07 p1091 N84-17099
Interplanetary mission design handbook. Volume 1, part 2: Earth to Mars ballistic mission opportunities, 1990-2005
[NASA-CR-173306] 09 p1260 N84-18226

SNYDER, H. E.
Damaged radar radome repair device
[AD-D011158] 23 p3712 N84-33528

SNYDER, H. L.
Quality metrics of digitally derived imagery and their relation to interpreter performance: 8
[AD-A137726] 11 p1660 N84-20830
Visual display technology: A developing challenge for the behavioral scientist
[AD-P003290] 18 p2908 N84-28441
Operator performance on flat-panel displays with line and cell failures
[AD-A142340] 20 p3265 N84-30716

SNYDER, L.
Pringle: A parallel processor to emulate CHIP (configurable highly parallel) computers
[AD-A129152] 01 p0119 N84-10770
The Pringle parallel computer
[AD-A140852] 17 p2750 N84-27452
Introduction to the Poker Parallel Programming Environment
[AD-A140851] 17 p2753 N84-27476
Parallel programming and the poker programming environment
[AD-A141026] 18 p2921 N84-28523
The Blue CHIP Project
[AD-A143474] 22 p3638 N84-33065

SNYDER, M. A.
An analysis of naval aviation configuration status accounting
[AD-A140473] 16 p2565 N84-26460

SNYDER, M. E.
The physics of second breakdown
[AD-A136537] 09 p1395 N84-19109

SNYDER, M. J.
Improved acrylic systems for rapid runway repair
[AD-A130389] 01 p0016 N84-10103
Ultraviolet curable resin system for rapid runway repair
[AD-A130364] 01 p0016 N84-10104
Heat: Initiated furan resin for rapid runway repair
[AD-A140902] 17 p2611 N84-26713

SNYDER, P.
Three-dimensional laser Doppler anemometer measurements of a jet in a crossflow
[NASA-TM-85997] 24 p3900 N84-34695

SNYDER, P. K.
A laser velocimeter system for large-scale aerodynamic testing
[NASA-TM-84393] 07 p0947 N84-16144
Laser velocimetry in the low-speed wind tunnels at Ames Research Center
[NASA-TM-85885] 07 p1007 N84-16526
Spinning disk calibration method and apparatus for laser Doppler velocimeter
[NASA-CASE-ARC-11510-1] 15 p2335 N84-25015

SNYDER, T. F.
An analysis of naval aviation configuration status accounting
[AD-A140473] 16 p2565 N84-26460

SNYDER, W. E.
An evaluation of the directed flow graph methodology
[NASA-CR-173593] 16 p2543 N84-26324

SNYMAN, C.
An interdisciplinary oceanographic database
[CSIR-T/SEA-8207] 04 p0616 N84-14064

SNYTNIKOV, V. N.
Energy characteristics of plasma generated in air near target by radiation from CO2 laser 21 p3488 N84-32103

SO, R. M. C.
Characteristics of inhomogeneous jets in confined swirling air flows 11 p1612 N84-20550

SOANES, R. W., JR.
Explicit formulas for C to the nth power piecewise Hermite basis functions
[AD-P002978] 14 p2202 N84-24214

SOBEL, L. H.
Nonlinear bending and collapse analysis of a poked cylinder and other point-loaded cylinders
[DE84-001853] 07 p1017 N84-16595
SOBIESKI, P.
A tentative unified sea model for scattering and emission 17 p2715 N84-27285
SOBIESZCZANSKI-SOBIESKI, J.
Structural optimization: Challenges and opportunities
[NASA-TM-85741] 07 p1016 N84-16591
An implementation of the programming structural synthesis system (PROSSS)
[NASA-TM-83160] 18 p2920 N84-28517
Aerospace engineering design by systematic decomposition and multilevel optimization
[NASA-TM-85823] 19 p2962 N84-28775
SOBOL, W. W.
Low cost manufacturing of tactical rocket motors
20 p3143 N84-29959
SOBOLEV, G. A.
Some specifics of influence of pore pressure on physical properties of deformable rocks
18 p2864 N84-28180
SOBOLEVSKIY, V. I.
Circulatory changes in orthostatic position in the presence of hyperthermia 20 p3253 N84-30647
SOBOTTA, W.
Final network: Objectives, scopes, benefits
[MBB-UR-670-83-O] 16 p2567 N84-26469
SOBRAL, J. H. A.
Plasma bubble irregularity occurrence and zonal velocities under quiet and disturbed conditions, from polarimeter observations
[INPE-3023-PRE/461] 12 p1846 N84-22036
Solar cycle related range type spread F occurrence characteristics over equatorial and low latitude stations in Brazil
[INPE-3024-PRE/462] 12 p1846 N84-22037
Equatorial plasma bubble eastward velocity characteristics from scanning airglow photometer measurements over Cachoeira Paulista
[INPE-3026-PRE/464] 12 p1847 N84-22039
Low latitude F-region studies using the O(6300 angstrom and 7744 angstrom nightglow measurements at Cachoeira Paulista, Brazil
[INPE-3025-PRE/463] 12 p1847 N84-22040
The variation of range type spread F occurrence with a solar cycle at Fortaleza and Cachoeira Paulista
[INPE-3209-PRE/566] 23 p3797 N84-34080
SOCOLOVSKY, E. A.
A coordinate transformation for the porous media equation that renders the free-boundary stationary
[AD-A132839] 05 p0737 N84-14842
SODA, A.
Flexible composite film for printed circuit board
[NASA-TM-77109] 01 p0089 N84-10452
Flexible substrate for printed wiring
[NASA-TM-77458] 10 p1451 N84-19478
SODEIK, M.
Improvement of manufacturing of drawn and ironed steel cans
[BMFT-FB-T-83-094] 02 p0198 N84-11286
SODEN, J. M.
ESD evaluation of radiation-hardened, high-reliability CMOS and MNOS ICs
[DE84-000138] 04 p0529 N84-13481
SODERBLOM, L. A.
High-resolution color images of Io
13 p2075 N84-23446
Galilean satellite multispectral data base production
13 p2087 N84-23521
Multi-image photometric solutions for the Galilean satellites 13 p2087 N84-23522
Rapid extraction of relative topography from Viking orbiter images. 2: Application to irregular topographic features 13 p2087 N84-23523
SODERMAN, P. T.
A comparison of wind tunnels suitable for rotorcraft noise studies 19 p3096 N84-29665
Effect of boattail geometry on the acoustics of parallel baffles in ducts
[NASA-TM-85981] 19 p3099 N84-29686
SODJA, J.
Making electron beams for SLC linac
[DE84-012072] 20 p3293 N84-30907
SOEDE, T.
Summaries of doctorate theses
20 p3263 N84-30705
Evaluation of arm protheses for unilateral amputees
20 p3264 N84-30713
SOEDER, J. F.
F100 multivariable control synthesis program. Computer implementation of the F100 multivariable control algorithm
[NASA-TP-2231] 02 p0180 N84-11171
A real-time, portable, microcomputer-based jet engine simulator
[NASA-TM-83550] 07 p1052 N84-16812
SOEDERLUND, R.
Sulfate in precipitation. A presentation of data from the European Air Chemistry Network
[CM-64] 15 p2367 N84-25199
SOEDERMAN, D.
Some considerations of the operations of optical imaging space sensors derived from the experience of the metric camera project 23 p3764 N84-33860
SOEDERQVIST, R.
Reduction of propeller noise by a reflecting rubber layer
[FOA-C-20506-E4] 08 p1228 N84-18025
SOEDERQVIST, S.
Reduction of propeller noise by a reflecting rubber layer
[FOA-C-20506-E4] 08 p1228 N84-18025
SOFFEN, G.
Programmatic comments 02 p0263 N84-11732
SOFFER, B. H.
The applications of silicon liquid crystal light valves to optical data processing: A review
12 p1905 N84-22409
Real-time implementation of nonlinear optical processing functions
[AD-A136843] 13 p2043 N84-23256
SOGA, K.
A new operation method for a large-scale shock tunnel
[NAL-TR-765] 04 p0487 N84-13200
An experimental study on the induced rolling moment due to wing-tail interference and roll-controllable two-stage rocket
[NAL-TR-793] 12 p1777 N84-21599
SOGA, T.
Rotational temperature measurements in free jet expensions of N2 using the electron beam fluorescence technique 07 p0984 N84-16376
SOHAIL, S. A.
A simulation program with latency exploitation for the transient analysis of digital circuits
[AD-A142377] 20 p3177 N84-30181
SOHIE, G. R. L.
Applications of Hilbert space theory to optimal and adaptive space-time processing
[AD-A131401] 02 p0286 N84-11876
SOHLER, W.
Fiber optic sensors
[NASA-TM-77404] 14 p2224 N84-24346
SOHN, D. S.
Miniaturized disk bend tests of neutron-irradiated path A type alloys
[DE84-001277] 04 p0549 N84-13618
MIT miniaturized disk bend test
[DE84-001275] 05 p0694 N84-14554
SOHN, J. K.
On the distribution of the studentized maximum of equally correlated normal random variables
[AD-A131529] 02 p0282 N84-11848
SOHN, J. L.
Three-dimensional vorticity procedure interactions in combustion instability analysis of solid propellant rocket motors 13 p1945 N84-22647
SOHNS, J.
Technical use of solar energy: Conversion from solar to thermal energy, solar cooling and thermal energy storage
[BMFT-FB-T-83-300] 15 p2362 N84-25173
SOHR, H.
On the singular set and the uniqueness of weak solutions of the Navier-Stokes equations
[PREPRINT-635] 17 p2759 N84-27523
SOIFER, B. T.
Infrared astronomy research and high altitude observations
[NASA-CR-173526] 13 p2070 N84-23413
Publications resulting from Infrared Astronomy Research and High Altitude Observations
[NASA-CR-173525] 13 p2070 N84-23414
SOINNE, E.
Design of single component airfoils using an inverse boundary element method
[REPT-83-A2-SER-A] 12 p1765 N84-21512
SOJKA, J. J.
A study of plasmaspheric density distributions for diffusive equilibrium conditions
[AD-A132643] 05 p0703 N84-14615
SOKOL, P. E.
Momentum distributions in hcp, bcc, and liquid He-4
[DE84-014679] 23 p3831 N84-34300
SOKOL, S.
Performance of alkaline battery cells used in emergency locator transmitters
[NASA-TP-2277] 11 p1646 N84-20759
SOKOLOFF, J. B.
Dynamical friction in condensed matter
[DE84-004202] 10 p1589 N84-20415
Oscillatory length dependent conductivity in periodic and almost periodic crystals
[DE84-004364] 11 p1745 N84-21384
Dynamical threshold behavior of a sliding charge density wave
[DE84-004304] 11 p1745 N84-21389
SOKOLOV, A. N.
Influence of level of adaptation to light upon estimation of brightness 18 p2898 N84-28385
EPR investigation of inclusions in cubic boron nitride crystals
[CSIR-TRANS-1752] 22 p3661 N84-33207
SOKOLOV, A. Y.
Electron acceleration in the front of intense collisionless shock waves
[PR-813] 08 p1154 N84-17511
SOKOLOV, D. D.
Periods of activity cycles in late-type stars
[NASA-TM-77297] 07 p1091 N84-17094
SOKOLOV, D. P.
Effect of cyclic changes in cultivation conditions of growth kinetics and physiological properties of yeasts
22 p3629 N84-32998
SOKOLOV, I. A.
New phase transition in Si and GaAs exposed to picosecond laser pulses 20 p3286 N84-30866
SOKOLOV, N. S.
Polarization of paraexciton luminescence in Cu2O crystals in magnetic field 20 p3287 N84-30870
SOKOLOV, V.
The 30-GHz monolithic receive module
[NASA-CR-168326] 11 p1642 N84-20737
SOKOLOV, V. I.
Pulse and interval distributor with sensor control
17 p2637 N84-26867
SOKOLOV, V. K.
Bonding materials by gas-phase precipitation
23 p3709 N84-33512
SOKOLOV, V. S.
Closed energy cycle with MRD generator using T-layer effect
[AD-A131136] 02 p0242 N84-11583
SOKOLOV, Y. N.
Response of cardiac rhythm to information load
18 p2898 N84-28384
SOKOLOVA, I. N.
Elastoplastic double-wall shells under intricate nonisothermal load 17 p2651 N84-26951
SOKOLOVA, Y. A.
Effect of cyclic changes in cultivation conditions of growth kinetics and physiological properties of yeasts
22 p3629 N84-32998
SOKOLOVA, Z. A.
Effect of decimeter waves on physical-chemical state of membranes, thymocyte chromatin and immunological reactivity of an organism 17 p2742 N84-27411
Analysis of some aspects of mechanism of action of helium-neon laser 21 p3455 N84-31922
SOKOLOVSKIY, I. I.
Modulation of microwave power with electron transfer diodes 22 p3570 N84-32610
SOKOLSKIY, A. G.
Numeric extension of periodic solutions to Lagrangian system with two degrees of freedom
19 p2972 N84-28843
SOLAND, R. M.
A steady-state version of a dynamic optimal budgeting problem
[AD-A142281] 20 p3312 N84-31034
SOLBERG, J. L.
Publications of the NASA space biology program for 1980 - 1984
[NASA-TM-86857] 22 p3628 N84-32990
SOLDATOVA, L. P.
Reactions of cerebral cortex neurons to alternating magnetic field on glutamic acid
20 p3258 N84-30681
SOLECKI, J. B.
On the implications for LEFM (Linear elastic fracture Mechanics) of the 3-dimensional aspects in some crack/surface intersection problems
[AD-A134227] 07 p1016 N84-16592
SOLECKI, J. S.
Three-dimensional finite element analysis of straight and curved through cracks in a plate
23 p3759 N84-33826
SOLECKI, R.
New method of analyzing vibration of cracked cylindrical shells
[AD-A136637] 09 p1331 N84-18693
Investigation of role of subsurface zones in wear of materials
[DE84-012752] 21 p3368 N84-31365

SOLEM, J. C.
X-ray imaging of biological specimens
[DE84-006287] 12 p1819 N84-21855
MECA: A supercomputer for Monte Carlo
[DE84-014129] 22 p3638 N84-33066
SOLIGNAC, J. L.
Experimentation with turbulent flows experiencing the effects of an adverse pressure gradient
03 p0325 N84-12127
SOLIMAN, M. S. A.
Creep transitions in aluminum solid-solution alloys
22 p3550 N84-32472
SOLIMINI, S.
A variational approach to superlinear elliptic problems
[AD-A134541] 07 p1063 N84-16892
SOLLA, S. A.
A renormalization group model for the stick-slip behavior of faults
[NASA-CR-173362] 09 p1344 N84-18782
SOLLER, D. R.
The Quaternary history and stratigraphy of the Cape Fear River valley, North Carolina
21 p3438 N84-31815
SOLLFREY, W.
The flexural behavior of PACSAT (passive communication satellite) in orbit
[AD-A131406] 02 p0184 N84-11195
Techniques for the analysis of spectral and orbital congestion in space systems
[AD-A140841] 17 p2614 N84-26734
Interference problems for nongeostationary satellites
[NASA-CR-173717] 18 p2802 N84-27780
Overview: Techniques for the analysis of spectral and orbital congestion in space systems
[AD-A143973] 23 p3697 N84-33426
SOLLID, J. E.
The Los Alamos free-electron-laser oscillator experiment: Plans and present status
[DE83-017290] 03 p0382 N84-12485
SOLN, J.
Uniform magnetic-field-induced free-electron laser in a waveguide
[AD-A141195] 18 p2846 N84-28073
SOLODOV, Y. S.
Correlational estimation of parameters of solid state microwave devices
22 p3570 N84-32609
SOLODOVNIK, F. A.
Effect of redistribution of blood on severity of spatial position illusions in weightlessness
02 p0260 N84-11701
SOLODUKHO, F. M.
Measuring roughness of ultrasmooth surfaces by reflectometric method
13 p1974 N84-22807
SOLOMIN, I. L.
Correlation between individual alpha-rhythm parameters and operator's performance while subjected to maximum information input
21 p3453 N84-31909
SOLOMON, A. A.
Mechanisms of elevated-temperature rupture in single-phase ceramics
[DE83-017779] 04 p0508 N84-13327
SOLOMON, A. D.
Modeling binary-alloy solidification processes: Numerical implementation
[DE84-001587] 04 p0501 N84-13284
Modeling binary alloy solidification processes
[ORNL/CSD-117] 16 p2464 N84-25790
Basis research on intelligent robotic systems operating in hostile environments: New developments at ORNL
[DE84-011464] 21 p3414 N84-31647
PCMSOL-1: A computer simulation code for a direct gain passive solar structure. Part 2: PCMSOL-1 users guide
[ORNL/CSD-127/P-2] 23 p3790 N84-34040
SOLOMON, A. S. P.
A theoretical and experimental study of turbulent particle-laden jets
[NASA-CR-168293] 04 p0485 N84-13187
Predictions of spray combustion interactions
11 p1609 N84-20532
The structure of evaporating and combusting sprays: Measurements and predictions
[NASA-CR-173778] 19 p3021 N84-29155
A theoretical and experimental study of turbulent nonevaporating sprays
[NASA-CR-174668] 20 p3130 N84-29877
A theoretical and experimental study of turbulent evaporating sprays
[NASA-CR-174760] 22 p3536 N84-32390
SOLOMON, E. J.
Flight evaluation of a linear optical displacement transducer
[AD-A132638] 05 p0630 N84-14141
SOLOMON, L. E.
Optical spectroscopy of disordered materials and X-ray scattering from surfaces
22 p3682 N84-33345
SOLOMON, O. M., JR.
Adaptive coherence estimation
[DE84-006486] 15 p2393 N84-25361
SOLOMON, S. C.
Venus banded terrain: Evaluation of tectonic models for the origin of banding
13 p2077 N84-23458
Elysium Region, Mars: Characterization of tectonic features
13 p2089 N84-23534
SOLONIN, Y. G.
Functional status in relation to work, performance and health
18 p2895 N84-28366
SOLOSHENKO, N. V.
Study of vibration resonance frequencies in rats
07 p1046 N84-16784
SOLOUKHIN, R. I.
Heat transfer by radiation in hydrogen plasma
21 p3488 N84-32106
SOLOVYEV, S. L.
Seismological measurements on ocean floor
11 p1670 N84-20896
SOLOVYEV, V. F.
Bonding materials by gas-phase precipitation
23 p3709 N84-33512
SOLOVYEV, V. M.
Features of laser welding of AMg6 alloy
24 p3870 N84-34525
SOLOWAY, E.
Classifying bugs is a tricky business
[AD-A133264] 06 p0895 N84-15813
PROUST: Knowledge-based program understanding
[AD-A133447] 06 p0897 N84-15825
Software psychology: The need for an interdisciplinary program
[PB84-176718] 17 p2755 N84-27486
SOLTANI, P. K.
Effects of non-equilibrium solidification on the material properties of brick silicon for photovoltaics
18 p2940 N84-28648
SOLTAU, G.
Geodetic astronomy
10 p1519 N84-19945
SOLTIS, D. G.
Additive for zinc electrodes
[NASA-CASE-LEW-13286-1] 05 p0673 N84-14422
Method of making a light weight battery plaque
[NASA-CASE-LEW-13349-1] 13 p1960 N84-22734
SOMBOONSUK, K.
The effect of growth rate on interface morphology
18 p2936 N84-28624
SOMERS, I. A.
An application of the causal-integrative model
[AD-P002786] 13 p2056 N84-23333
SOMERVILLE, C. C.
Degradation of jet fuel hydrocarbons by aquatic microbial communities
[AD-A139791] 15 p2304 N84-24822
SOMERVILLE, L. P.
The 100% alignment of hydrogen excited states in beam-foil spectroscopy
[DE83-017963] 03 p0436 N84-12859
Fast ion atomic spectroscopy
[DE84-006720] 15 p2404 N84-25432
SOMERVILLE, P. N.
On obtaining physical meaning from the parameters in the Weibull distribution
[AD-A138574] 13 p2036 N84-23206
A comparison of several alternatives to maximum likelihood for the Weibull distribution
[AD-A138721] 13 p2036 N84-23208
SOMES, S. S.
Communications network design and costing model technical manual
[NASA-CR-168236] 05 p0666 N84-14376
Communications network design and costing model programmers manual
[NASA-CR-168237] 05 p0666 N84-14377
Communications network design and costing model users manual
[NASA-CR-168238] 05 p0666 N84-14378
SOMMARS, W. E.
The design and layout of a complementary metal oxide semiconductor silicon on sapphire cell library
[AD-A138310] 12 p1914 N84-22470
SOMMEIJER, B. P.
Stability in linear multistep methods for pure delay equations
[MC-NW-152/83] 07 p1065 N84-16913
Linear multistep methods with minimized truncation error for periodic initial value problems
[MC-NW-157/83] 13 p2034 N84-23195
SOMMER, D. V.
Computer center introductory reference manual for CDC 6000
[AD-A130941] 01 p0122 N84-10797
SOMMER, H. T.
Turbulent swirling combustion
11 p1609 N84-20535
SOMMER, M.
The ISPM solar-flare X-ray and cosmic gamma-ray burst experiment
09 p1262 N84-18238
SOMMER, T. M.
An optical proximity sensor for measuring surface position and orientation for robot manipulation
[AD-A134899] 08 p1205 N84-17861
SOMMER, W. F.
Study of defects produced in tungsten by 800-MeV protons using field-ion microscopy
[DE84-001359] 04 p0613 N84-14048
SOMMERIA, G.
Parameterization of the atmospheric boundary layer at ECMWF, appendix O
18 p2885 N84-28310
SOMOANO, R.
Charge control investigation of rechargeable lithium cells
23 p3736 N84-33671
SOMORJAI, G. A.
Catalysed low-temperature production of methane from water and graphite
[DE83-012474] 02 p0203 N84-11325
Adsorption and catalyzed reactions of CO and CO2 on graphite surfaces
[DE84-006625] 14 p2123 N84-23725
Catalyzed photodissociation of water
[DE84-012253] 21 p3361 N84-31325
Energy redistribution in diatomic molecules on surfaces
[DE84-011442] 21 p3505 N84-32213
SOMOV, A. M.
Analysis of noise temperature of optical waveguide
21 p3377 N84-31434
SOMOVA, A. G.
Allomonades: New group of vibrionaceae family microorganisms
17 p2742 N84-27410
SOMS, A. P.
A note on equality in Anderson's theorem
[AD-A141509] 19 p3084 N84-29577
A new method of evaluating normal and t-tail areas
[AD-P003842] 24 p3939 N84-34930
SONDER, E.
Influence of cation stoichiometry on the electrical conductivity and high-temperature stability of MgO:Al/sub 2O/sub 3 spinel
[DE84-003305] 07 p0980 N84-16348
SONDERGAARD, N. A.
Friction and wear studies of liquid metal wetted, metallic fiber brushes
[AD-A143473] 22 p3604 N84-32831
SONDERGELD, M.
Quantitative determination of gaseous air pollutants by semiconducting sensors
[BMFT-FB-T-84-113] 23 p3793 N84-34058
SONDERICKER, J. H.
Helium-flow measurement using ultrasonic technique
[DE83-017765] 03 p0431 N84-12826
A helium refrigerator with features for supercritical pressure cooling
[DE84-017759] 04 p0515 N84-13383
SONE, H.
A study on accurate frequency-control of semiconductor lasers
22 p3563 N84-32566
SONE, T.
The loudness of complex noise consisted of impact sound and steady noise
23 p3741 N84-33711
SONETT, C. P.
Development INTERDATA 8/32 computer system
[NASA-CR-175425] 10 p1556 N84-20197
SONG, I.
Protein changes in leaf-sheath pulvini of barley (hordeum) induced by gravistimulation
09 p1352 N84-18832
SONG, J. W.
Periodic window, period doubling, and chaos in a liquid crystal bistable optical device
14 p2238 N84-24432
SONG, T.
The extreme point characterizations of semi-infinite dual non-archimedean balls
[AD-A138016] 12 p1893 N84-22330
SONG, X.
Properties of aerosols during a dust storm over the Beijing area
[AD-A136521] 09 p1344 N84-18783
SONG, X. M.
The research on short backfire antenna
[AD-A137209] 10 p1485 N84-19712
SONNENFELD, R.
Squeezable electron tunneling junctions
[AD-A132884] 05 p0754 N84-14946
SONNERUP, B. U. O.
Magnetopause studies using data from the ISEE mission
[NASA-CR-175208] 08 p1185 N84-17718
Magnetic field reconnection at the magnetopause: An overview
08 p1185 N84-17719

ISEE observations of magnetopause reconnection: The energy balance 08 p1185 N84-17720
SONNIER, C. S.
Optical surveillance for international safeguards: Present and future
[DE83-014278] 02 p0223 N84-11465
SONODA, T.
Frequency characteristics of spring constants of a suspended transmission line 07 p0982 N84-16361
SONOYA, K.
Embrittlement of steels due to galvanizing or coating with zinc paint: An investigation of embrittlement in welding or heating operations
[AERE-TR-4774] 06 p0805 N84-15244
SONTAG, E. D.
Analysis and regulation of nonlinear and generalized linear systems
[AD-A144671] 24 p3952 N84-35029
SOO, S. L.
Averaging procedures of multiphase conservation equations
[DE83-014698] 04 p0592 N84-13908
SOOD, M.
Geology hydrology and mineral resources of crystaline rock areas of Northeastern US
[DE84-013671] 21 p3432 N84-31774
Geology, hydrology, and mineral resources of crystalline rock areas of the Lake Superior region, US, part 1
[DE84-012682] 21 p3432 N84-31775
Geology, hydrology, and mineral resources of crystalline rock areas of the northeastern United States
[DE84-013672] 22 p3614 N84-32901
Crystalline rocks of the Northeastern United States
[DE84-013673] 22 p3624 N84-32902
Crystalline rocks of the Lake Superior region, United States, part 2
[DE84-014802] 23 p3799 N84-34087
SOOMERE, T. E.
Generalized spectra of slightly nonlinear Rossby waves 17 p2698 N84-27187
SOONG, D. S.
Diffusion and sorption of cyclohexane vapor in SBS and SBR copolymers
[AD-A132397] 04 p0506 N84-13315
Measurement of fast transient and steady state responses of viscoelastic fluids with a sliding cylinder rheometer executing coaxial displacements
[AD-A137996] 12 p1816 N84-21835
SOONG, T. T.
Dynamics of a simple system subjected to random impact 10 p1511 N84-19889
SOOP, E. M.
Introduction to geostationary orbits
[ESA-SP-1053] 12 p1776 N84-21590
SOOSAAR, K.
Simulation requirements for the Large Deployable Reflector (LDR)
[NASA-CR-171140] 21 p3523 N84-32317
SOPPET, W. K.
Effect of sulfuric acid, oxygen, and hydrogen in high-temperature water on stress corrosion cracking of sensitized Type 304 stainless steel
[DE84-007276] 15 p2298 N84-24795
SORBELLO, R. M.
Phased-array-fed antenna configuration study. Volume 1: Technology assessment
[NASA-CR-168231] 07 p0991 N84-16423
Phased-array-fed antenna configuration study, volume 2
[NASA-CR-168232] 07 p0991 N84-16424
SORENSEN, C.
Preliminary evaluation of Thematic Mapper image data quality 20 p3214 N84-30415
SORENSEN, S. S.
Petrology of basement rocks of the California continental borderline and the Los Angeles Basin
24 p3917 N84-34801
SORENSON, K. M.
Theoretical analysis of nonreciprocal electromagnetic surface wave devices
[AD-A131630] 02 p0209 N84-11368
SORNAS, L.
Theoretical evaluation of the structural performance of Swedish fighter aircraft windshields subjected to bird impact
[AD-P003235] 17 p2597 N84-26648
SOROCHENKO, R. L.
Stable heterodyning system in RT-22 radio telescope for millimetric-wave spectroscopy
17 p2630 N84-26827
Three-element radiointerferometer with very long baselines 19 p2974 N84-28853
SOROKA, A. M.
Improving energy performance and duty time of production process CW electrical ionization CO2 lasers by using five-component lasing mixtures
21 p3481 N84-32065
SOROKA, L.
Efficient radiation-hardened, 400- and 800-keV neutral-beam injection systems
[DE83-015691] 03 p0440 N84-12886
SOROKA, Y. Z.
Method of flicker suppression in television image
17 p2632 N84-26838
SOROKIN, P. P.
Laser studies of molecular dynamics
[AD-A138102] 12 p1820 N84-21864
SOROKIN, V. K.
Production of porous sheets from metallic powders
[BLL-M-35465-(5828.4)] 12 p1796 N84-21713
SOROKIN, Y. M.
Collective mode of evolution of plasma produced by optical breakdown in aerosol medium
17 p2631 N84-26828
SORRELL, G. L.
Independent cost estimates: A case study joint vertical lift aircraft (JVX) program
[AD-P002797] 13 p2057 N84-23343
SORVARI, J. M.
A search for Earth-crossing asteroids, supplement
[NASA-CR-173255] 07 p1092 N84-17101
SOSOVETS, E. N.
Cutoff for solar cosmic rays in Earth's magnetosphere in magnetically quiet periods 19 p2973 N84-28849
SOTER, S.
Studies related to the deep Earth gas
[PB83-244004] 02 p0251 N84-11644
SOTNIKOV, A. D.
Microprocessor parallel processing for digital filters
17 p2634 N84-26854
SOTOBAYASHI, H.
The development and study of sensitive and process-compatible polymers for X-ray lithography
[BMFT-FB-T-83-122] 02 p0202 N84-11314
SOTTA, J.
Assessment of data handling configuration for on-board operation system definition
[DM55/JPS/JP/321.82] 19 p2982 N84-28898
SOTTA, J. P.
The role of onboard intelligence and of orbital servicing in the increase of satellite lifetime
15 p2266 N84-24605
SOUBRIER, J. F.
Interpretation of a SAR (Synthetic Aperture Radar) image of the Bay of Biscay
[AD-A135981] 09 p1303 N84-18517
SOUERS, P. C.
Electrolytic gettering of tritius from air
[DE84-000174] 04 p0496 N84-13252
SOUGANIDIS, P. E.
Differential games, optimal control and directional derivatives of viscosity solutions of Bellman's and Isaacs' equations
[AD-A137939] 11 p1718 N84-21209
Developments in the theory of nonlinear first-order partial differential equations
[AD-A138020] 12 p1893 N84-22332
Convergence of difference approximations of quasilinear evolution equations
[AD-A144694] 24 p3953 N84-35032
SOULAT, G.
Active thermal control of the faint object camera
10 p1442 N84-19419
Accurate thermal control of enclosures of optical payloads 10 p1447 N84-19457
SOULETIS
Multipath pyrotechnic relay: Conception with numerical simulations and experimental validation
[SNIAS-832-422-101] 16 p2474 N84-25855
SOULEZELLE, B.
Investigation of damage and damage propagation in static and fatigue tests on carbon epoxy composites
[SNIAS-841-551-102] 21 p3358 N84-31298
SOULSBY, E. P.
Human decisionmaking in dynamic environments with increasing information processing demands
[AD-P002884] 13 p1979 N84-22845
SOUREN, E.
PAS/NEB: A PASCAL language tool for the MCF (Military Computer Family)
[AD-P003535] 21 p3332 N84-31139
SOUTER, K.
Design of a remotely controlled hovercraft vehicle for spill reconnaissance
[PB84-124064] 08 p1105 N84-17187
SOUTH, P.
Oscillating wind energy conversion systems
[DE84-000087] 12 p1843 N84-22018
SOUTHARD, R. B.
Antarctic mapping and international coordination
14 p2160 N84-23935
SOUTHWORTH, C. S.
Glacological and geological studies of Antarctica with satellite remote sensing technology
14 p2163 N84-23956
SOUZA, C. D. E.
Tutorial: Fuzzy sets and applications
[INPE-3168-PRE/538] 21 p3471 N84-31998
SOVEN, P.
Photoemission spectroscopy and the optical properties of surface
[PB84-100445] 08 p1127 N84-17331
SOVEY, J. S.
Space station propulsion analysis study
[NASA-TM-83715] 16 p2459 N84-25764
Ion sputter textured graphite electrode plates
[NASA-CASE-LEW-12919-2] 18 p2928 N84-28565
Deposition of diamondlike carbon films
[NASA-CASE-LEW-14080-1] 19 p2996 N84-28986
Improved heat exchanger for electrothermal devices
[NASA-CASE-LEW-14037-1] 22 p3542 N84-32425
SOVO, Z. A.
Diffuse auroral zone. Part 7: Dynamics of equatorial boundary in field of diffuse electron spill in evening sector 19 p2973 N84-28846
SOWA, P.
Design analysis of advanced photovoltaic technologies
[DE84-000008] 04 p0557 N84-13675
SOWDERS, L.
Correlation between plasma fibronectin level and mortality following experimental rate heat stress
[AD-A143383] 22 p3628 N84-32991
SOWINSKI, M.
Green's function for a dielectric wave-guide filled with a dispersion medium
[ISSN-0208-5658] 19 p3003 N84-29032
SOYER, R.
The design of a quantal response experiment: An empirical approach
[AD-P003843] 24 p3939 N84-34931
SOYKIN, C. A.
Development of a qualification standard for adhesives used in hybrid microcircuits
[NASA-CR-161978] 18 p2832 N84-27979
SPAANGBERG, C.
Parachute descent from altitude 5000 to 7000 meters
[FOA-C-59008-H1] 19 p2959 N84-28756
SPACHT, L. A.
Wind tunnel tests of high-lift systems for advanced transports using high-aspect-ratio supercritical wings
[NASA-CR-3523] 19 p2957 N84-28742
SPACKMAN, D.
Effects of long-term low-level radiofrequency radiation exposure on rats. Volume 4: Open-field behavior and corticosterone
[AD-A137743] 12 p1863 N84-22141
SPADACCINI, L. J.
Deposit formation and heat transfer in hydrocarbon rocket fuels
[NASA-CR-168277] 03 p0343 N84-12225
Alternative fuel deposit formation
15 p2289 N84-24735
SPADONI, D. J.
Cost estimation model for advanced planetary programs, fourth edition
[NASA-CR-173495] 13 p1936 N84-22590
SPAEPEN, F.
Atomic transport in metallic glasses
[AD-A136363] 09 p1282 N84-18373
Picosecond laser pulse interactions with metallic and semiconductor surfaces
[AD-A135693] 09 p1395 N84-19112
Bulk formation of metallic glasses and amorphous silicon from the melt
[NASA-CR-171012] 13 p1963 N84-22752
SPAIN, E. H.
Factors affecting visual performance with stereoscopic television displays
[AD-P003362] 18 p2913 N84-28475
SPAIN, J. C.
Degradation of jet fuel hydrocarbons by aquatic microbial communities
[AD-A139791] 15 p2304 N84-24822
SPALART, P. R.
Airloads on bluff bodies, with application to the rotor-induced downloads on tilt-rotor aircraft
[NASA-TM-84401] 02 p0174 N84-11142
Numerical simulation of vortex breakdown by the vortex-filament method 03 p0325 N84-12126
Numerical simulation of separated flows
06 p0832 N84-15413
Numerical simulation of boundary-layer transition
[NASA-TM-85964] 19 p2958 N84-28748

SPALDING, D. B.
Turbulence modelling: A state-of-the-art review
[CFD/83/3] 03 p0374 N84-12435
Turbulent flow downstream of a backward-facing step
[CFD/83/2] 07 p1005 N84-16515
An improved version of the k-W model of turbulence
[CFD/83/1] 18 p2837 N84-28011
Proc. of a Course of Lectures and Computer Workshops on Computer Simulation of Multi-Phase Flows
[CFD/83/4] 18 p2838 N84-28012
Unsteady laminar natural convection inside an annular cavity
[CFD-83/8] 18 p2838 N84-28014
Simulation of vehicle aerodynamics by means of a general-purpose computer program
[CFD/84/4] 19 p2960 N84-28759
SPALDING, J. D.
The isotopic composition of energetic particles emitted from a large solar flare 08 p1245 N84-18140
SPALLA, P.
Laser remote sensing at IROE
24 p3907 N84-34747
SPALTHOFF, W.
The neutron induced embrittlement of reactor pressure vessel steels and ferritic alloys
[AD-B080746] 15 p2295 N84-24770
SPALVINS, T.
Characteristic morphological and frictional changes in sputtered MoS/sub 2 films
[NASA-TM-83565] 07 p0985 N84-16380
Metallic glass as a temperature sensor during ion plating
[NASA-TM-83566] 08 p1130 N84-17351
Tribological characteristics of gold films deposited on metals by ion plating and vapor deposition
[NASA-TM-83572] 08 p1130 N84-17352
Frictional and morphological properties of Au-MoS2 films sputtered from a compact target
[NASA-TM-83604] 11 p1664 N84-20858
Status of plasma physics techniques for the deposition of tribological coatings 15 p2342 N84-25058
SPANG, S.
Analysis of the output mode from 60 GHz, 200 kW pulsed and CW gyrotrons
[DE84-004586] 10 p1497 N84-19785
First 200 kW CW operation of a GHz gyrotron
[DE84-004573] 10 p1498 N84-19794
60 GHz gyrotron development program
[DE84-006606] 13 p1987 N84-22899
SPANGBERG, C.
Parachuting in night conditions
[FOA-C-59010-H1] 18 p2790 N84-27708
The military aircrew work environment
[FOA-A-59005-H1-H2] 18 p2915 N84-28490
SPANGLER, J. G.
Afterbody propulsor performance validation for A 2.65 fineness ratio body advanced tactical vehicle
[AD-A131259] 01 p0080 N84-10517
SPANNER, J. C.
Qualifications of ultrasonic testing for nuclear inservice inspection applications
[DE84-011899] 20 p3200 N84-30323
SPANOS, P. D.
Survival probability of non-linear oscillators subjected to broad-band random disturbances
15 p2312 N84-24875
SPARACINO, C.
Personal exposure to volatile organics and other compounds indoors and outdoors: The TEAM (Total Exposure Assessment Methodology) study
[PB83-231357] 01 p0115 N84-10744
SPARK, R. F.
Prevention of acute mountain sickness by dexamethasone
[AD-A131533] 01 p0114 N84-10737
SPARKS, C. J., JR.
Design of doubly focusing, tunable (5 - 30 keV), wide-bandpass optics made from layered synthetic microstructures
[DE83-015492] 03 p0441 N84-12897
SPARKS, D. L.
Assessment of acid rain on leaching of elements from Delaware soils into groundwater
[PB84-120849] 09 p1343 N84-18770
SPARKS, L. L.
Tensile, compressive, and shear properties of a 64-kg/m3 polyurethane foam at low temperatures
[PB83-204818] 01 p0051 N84-10330
Tensile, comprehensive and sharp properties of a 96 kg/m3 cubic meter Polyurethane foam at low temperatures
[PB84-143643] 11 p1638 N84-20710
SPARKS, W.
Theoretical calculation of rapid X-ray transients and radius expansion
[DE84-001312] 06 p0941 N84-16114
SPARKS, W. M.
Hydrodynamic simulations of a combined hydrogen, helium thermonuclear runaway on a 10 km neutron star
[DE83-012658] 03 p0483 N84-13047
SPARLIN, D. M.
Characterization of high temperature electrically conducting oxides
[DE84-002887] 08 p1236 N84-18076
SPARREBOOM, D.
Proprioception 20 p3264 N84-30714
SPARROW, E. M.
Studies of heat transfer in complex internal flows
[AD-A140804] 17 p2668 N84-27014
SPAUHORST, V. R.
Solid state power controller fuse development program
[AD-A142118] 19 p3016 N84-29118
SPAUL, W. A.
The physiological effects of simultaneous exposures to heat and vibration
[NASA-TM-84400] 01 p0113 N84-10732
SPAULDING, A. D.
Optimum reception in non-Gaussian electromagnetic interference environments. Part 2: Optimum and suboptimum threshold signal detection in class A and B noise
[PB83-241141] 03 p0363 N84-12364
Locally optimum and suboptimum detector performance in a non-Gaussian interference environment
[PB84-184738] 20 p3176 N84-30173
SPAULDING, W. G.
Vegetation and climates of the last 45,000 years in the vicinity of the Nevada Test Site, south-central Nevada
[DE84-009032] 20 p3247 N84-30610
SPEAKER, S. M.
Development of fatigue and crack propagation design and analysis methodology in a corrosive environment for typical mechanically-fastened joints. Volume 1: Phase i documentation
[AD-A136414] 09 p1331 N84-18691
Development of fatigue and crack propagation design and analysis methodology in a corrosive environment for typical mechanically-fastened joints. Volume 2: State-of-the-art assessment
[AD-A136415] 09 p1331 N84-18692
Durability methods development, volume 7
[AD-A142400] 20 p3128 N84-29865
SPEAR, R. J.
Mercuric 5-nitrotetrazole, a possible replacement for lead azide in Australian ordnance. Part 1: An assessment of preparation methods
[MRL-R-901] 05 p0661 N84-14344
A thermal stability test for primary explosive stab sensitizers: Study of the thermal and hydrolytic stability of 1-picryl-5-nitrotetrazole
[MRL-R-918] 16 p2473 N84-25853
SPEARMAN, M. L.
An overview of aerodynamic research and technology requirements as related to some military needs
[NASA-TM-85691] 04 p0477 N84-13138
Some thoughts concerning large load-carrying vehicles
[NASA-TM-85701] 04 p0477 N84-13139
Unconventional missile concepts from consideration of varied mission requirements
[NASA-TM-85829] 18 p2785 N84-27679
Scientific and technical training in the Soviet Union
[NASA-TM-86252] 18 p2954 N84-28725
Some aerodynamic discoveries and related NACA/NASA research programs following World Wer 2
[NASA-TM-86258] 20 p3125 N84-29847
SPEARS, J. W.
Processor-controlled DAC-20 (digital-to-analog converter)
[AD-A132260] 04 p0526 N84-13460
SPEARS, W. D.
Processes of skill performance: A foundation for the design and use of training equipment
[AD-A136879] 10 p1550 N84-20160
SPECHT, E.
X-ray diffuse scattering 22 p3682 N84-33341
SPECKHARD, T. A.
Properties of polyurethane anionomers: Ionization via bimolecular nucleophilic displacement of the urethane hydrogen
[AD-A137988] 12 p1801 N84-21742
Properties of UV-cured polyurethane acrylates: Effect of polyol type and molecular weight
[AD-A143176] 22 p3559 N84-32537
Properties of UV-curable polyurethane acrylates: Effect of reactive diluent
[AD-A143241] 22 p3559 N84-32540
SPECKMANN, H. D.
Splitting of condensation shock waves in fluids of high specific heat
[MPIS-MITT-76] 16 p2487 N84-25949
SPEELMAN, L. W.
A MIL-STD-1750A computer employing the MDAC (McDonnell Douglas Astronautics Corporation) CMOS-SOS chipset
[AD-P003550] 21 p3334 N84-31154
SPEER, P. E.
Sediment transport in a tidal inlet
[PB83-242271] 03 p0402 N84-12632
SPEGELE, H.
Exploratory testing of the MBB 10 N bipropellant engine. Volume 2: Preliminary exhaust plume investigations
[MBB-UR-561-82-VOL-2] 23 p3702 N84-33484
Exploratory testing of the MBB 10 N Bipropellant engine. Volume 1: Characterization tests
[MBB-UR-572/82-VOL-1] 24 p3867 N84-34505
SPEGT, P.
Nuclear Magnetic Resonance (NMR) study of glass fiber-epoxy resin composites in the solid state
21 p3358 N84-31299
SPEIDEL, K.
German/Indian cooperation program for solar powered water pumps, phase 1
[BMFT-FB-T-83-171] 07 p1026 N84-16851
SPEIGHT, D. W.
Water resources data for Pennsylvania, Water Year 1982. Volume 1: Delaware River Basin
[PB84-161579] 14 p2170 N84-23999
SPEISER, B.
Electrochemistry of anilines. 2: Oxidation to dications, electrochemical and UV/VIS spectroelectrochemical investigation
[AD-A136949] 10 p1454 N84-19498
Simulation of edge effects in electroanalytical experiments by orthogonal collocation. Part 4: Application to voltammetric experiments
[AD-A136988] 10 p1455 N84-19500
SPEISER, J. M.
Signal processing applications of systolic array technology (extended summary)
09 p1399 N84-19139
SPEITEL, L.
Aircraft seat fire blocking layers. Effectiveness and benefits under various scenarios
[AD-A140796] 17 p2603 N84-26681
SPEKTOR, E. N.
Effect of stretch rate on texture and mechanical properties of nickel-cobalt alloys
24 p3869 N84-34521
SPENCE, C. B.
Advanced strain-gage pressure transducer
[AD-A136063] 09 p1303 N84-18518
SPENCE, G. E.
The Sacramento Peak fast microphotometer
18 p2841 N84-28040
SPENCE, H.
Optical, radio and computer simulation studies of the Brazil ionospheric modification experiment of 8 September 1982
[AD-A135143] 08 p1186 N84-17731
SPENCE, J. C. H.
Atomic and electronic structure of defects in semiconductors
[AD-A131539] 02 p0299 N84-11960
SPENCE, J. W.
Research program for effects of acidic deposition on materials and cultural resources
[PB83-232074] 01 p0051 N84-10331
SPENCE, W.
Southern Great Basin seismological data report for 1981 and preliminary data analysis
[DE84-005687] 15 p2369 N84-25213
SPENCER, A.
A compilation of moored current meter data from the region of the North Pacific boundary current, volume 33
[AD-A140687] 17 p2737 N84-27389
SPENCER, B., JR.
Remotely driven model control surfaces for efficient wind-tunnel operations 01 p0022 N84-10139
SPENCER, C. A.
N1 and P1 components of the visual evoked response in humans. A topographical and functional comparison
[AD-A137030] 10 p1547 N84-20141
SPENCER, D. P.
Biaxial fatigue, a review of the literature
[FRP-82/17] 04 p0498 N84-13266
SPENCER, D. W.
Clear atmospheric effects on insolation illustrated by broad-band radiometer measurements
06 p0876 N84-15701
SPENCER, F. W.
Lower confidence bounds on system reliability using component data: Maximum methodology
[DE84-012813] 21 p3415 N84-31658
SPENCER, J. E.
Ideal of the perfect magnet-superconducting systems
[DE83-015080] 04 p0529 N84-13482

Some optics alternatives for the FFS
[DE84-006255] 14 p2225 N84-24355

SPENCER, J. H.
Summer faculty fellowship program, 1984
[NASA-CR-172409] 21 p3507 N84-32221
Point response functions for unfilled optical arrays
[AD-A143384] 22 p3657 N84-33183

SPENCER, J. L.
Fiber optics for the future - wavelength division multiplexing
[AD-P003579] 21 p3339 N84-31184

SPENCER, J. R.
A tectonic geomorphological classification of the walls of Valles Marineris 13 p2087 N84-23518

SPENCER, M. B.
Adaptation to irregularity of rest and activity 11 p1697 N84-21070

SPENCER, M. G.
Development of short gate FET's
[AD-A133852] 05 p0674 N84-14431
Development of short gate FET's
[AD-A140819] 17 p2663 N84-26992

SPENCER, N. A.
System safety study of minimum TCAS II (Traffic Alert and Collision Avoidance System)
[AD-A138674] 13 p1929 N84-22548
Aircraft traffic density in the Los Angeles basin
[AD-A141435] 19 p2961 N84-28768

SPENCER, P. K.
Lower tertiary biostratigraphy and paleoecology of the Quilcene-Discovery Bay area, northeast Olympic Peninsula, Washington 22 p3621 N84-32943

SPENCER, R.
Linear Fresnel lens photovoltaic concentrator program
[DE84-002971] 08 p1180 N84-17689
Source-circuit design with multiple photovoltaic manufacturers 22 p3582 N84-32685
Interface standardization 22 p3584 N84-32700

SPENCER, R. L.
MHD equilibrium and stability of rotating FRCs with excluded multipole fields
[DE84-007477] 20 p3284 N84-30853

SPENGLER, H. J.
Development of hardware and software for automatic optical surface inspection with laser scanners
[BMFT-FB-T-84-111] 23 p3755 N84-33805

SPENNER, K.
Preliminary results from the Heating Rocket (HERO) project: In situ measurements of ionospheric modifications using sounding rockets 05 p0636 N84-14183

SPENSE, P. W.
Low-inductance, dual-feed diode development
[DE84-000117] 04 p0527 N84-13465

SPERA, R.
Stirling engine applications study
[PB84-148055] 12 p1823 N84-21888

SPERANZA, A.
Alpine cyclogenesis as a complex problem 18 p2889 N84-28335

SPERATO, M.
Automated data base implementation requirements for the avionics planning baseline, Army
[AD-A135259] 08 p1240 N84-18103

SPERLINE, P. D.
An acoustical imaging system for the inspection of solid rocket motors
[AD-A139482] 14 p2156 N84-23918

SPERLING, J. L.
The 2-step ECRH current-drive study
[DE83-012745] 01 p0150 N84-10963

SPERLING, L. H.
Characterization of block copolymers based on poly(3,3 -bis(ethoxymethyl)oxetane) and other novel polyethers
[AD-A142606] 20 p3162 N84-30081

SPERO, A. J.
The behavior of very large short pulse antennas
[DE84-012372] 21 p3388 N84-31500

SPEYER, J. J.
Certification experience with methods for minimum crew demonstration 06 p0778 N84-15101

SPEZIALE, C. G.
On the structure of rotational instabilities in non-Newtonian fluids 15 p2315 N84-24892

SPICER, C. W.
Turbine engine exhaust hydrocarbon analysis, tasks 1 and 2
[AD-A131522] 01 p0012 N84-10074

SPICER, D. S.
Longitudinal resistivity and intermediate Mach number collisionless transverse magnetosonic shocks
[AD-A137122] 10 p1491 N84-19749
A users guide to KLYSMA 2: A multifluid transport code
[AD-A143784] 23 p3828 N84-34278

SPICER, W. E.
HgCdTe surface study program
[AD-A132071] 03 p0349 N84-12266
HgCdTe surface and defect study program
[AD-A142342] 20 p3308 N84-31010

SPIEGEL, K. H.
Field evaluation of proposed ICAO annex 16 takeoff noise certification procedure for propeller-driven airplanes not exceeding 5700 kg
[DFVLR-FB-83-34] 12 p1901 N84-22378

SPIEGEL, S. L.
Further development of a computer algorithm for the automatic determination of space vehicle potential in real time
[AD-A137041] 10 p1571 N84-20292

SPIEGL, G.
Current methods of evaluation of bone mineral content 23 p3807 N84-34142

SPIEKHOUT, D. J.
Operational loads on B-747 aircraft: Design assumptions, actual experience and maintenance aspects 17 p2585 N84-26569
Operational loads on B-747 aircraft: Design assumptions, actual experience and maintenance aspects
[NLR-MP-83051-U] 17 p2606 N84-26697

SPIELMAN, B. E.
Dielectric resonators for use in microwave and millimeter-wave GaAs circuits
[AD-A132881] 05 p0675 N84-14440

SPIELVOGEL, B. F.
Studies in boron chemistry
[AD-A135364] 09 p1280 N84-18360

SPIERS, R. B.
Surface accuracy measurement sensor test on a 50-meter antenna surface model
[NASA-TM-85689] 07 p0992 N84-16427

SPIESS, F. N.
Program in marine physics applied to Navy undersea missions
[AD-A133119] 06 p0885 N84-15753

SPIGHT, C.
Magnetic field coupled velocimeters
[AD-A134002] 05 p0679 N84-14466

SPILAK, S. M. D.
Catalog of existing published periodicals of INPE, Volume 7
[INPE-2886-NTE/206] 23 p3834 N84-34320

SPILLMAN, J. J.
The effects of wing tip devices on the performance of the BAe Jetstream 03 p0326 N84-12130
The effect of wing tip devices on the far-field wake of a Paris Aircraft 03 p0326 N84-12131

SPILLMAN, R.
Advanced application of the printed circuit board testability design and rating system
[AD-A141147] 18 p2834 N84-27989

SPINA, J. A.
Ultra lightweight mirror fabrication technology
[AD-A140019] 15 p2408 N84-25454

SPINAK, A.
Planning of operational software implementation tool
[AD-P003595] 21 p3341 N84-31200

SPINDEL, R. C.
Undersea acoustic research
[AD-A142339] 20 p3291 N84-30891

SPINDLER, B.
Equations governing the liquid-film flow over a plane with heat flux and interfacial phase change
[DE83-017528] 04 p0536 N84-13525

SPINDLER, W. C.
Battery lifetime prediction by pattern recognition application to lead-acid battery life-cycling test data
[AD-A133281] 06 p0829 N84-15397

SPINELLI, J.
Tests for exponentiality when origin and scale parameters are unknown
[AD-A131377] 02 p0284 N84-11864

SPINELLO, A. G.
Water resources data for New York, water year 1982. Volume 2: Long Island
[PB84-119536] 09 p1339 N84-18742

SPINK, T. E.
Tactical requirements impact on avionics/weapon system design 06 p0768 N84-15036

SPINWEBER, C. L.
Benzodiazepine effects on arousal threshold during sleep
[AD-A133151] 07 p1047 N84-16792

SPIRA, M.
A study of stress-free living bone and its application to space flight
[NASA-CR-171786] 16 p2535 N84-26275

SPIRIDON, B.
Travel report from the first International Programming Conference
[FOA-C-20520-D8] 16 p2544 N84-26332

SPIRIDONOV, E. G.
Creep of LaCrO-3Cr ceramic-metallic material 24 p3877 N84-34568

SPIRIN, A. I.
Seismological observations during the I and II Soviet-American expeditions for tsunami study in the open sea 19 p3060 N84-29417
T-phase recording by OBS near the conjugation of the Kuril and Japan trenches 19 p3060 N84-29418

SPIRKOVA, E. S.
The study of the dynamics of the electron fluxes and spectra during solar minimum 24 p3994 N84-35276

SPITAL, R.
Automated software testing
[AD-P003498] 21 p3515 N84-32264

SPITZER, D.
Ocean Color Working Group report to ESA Observation Advisory Committee
[ESA-BR-20] 23 p3785 N84-34003

SPITZER, E. A.
Panama Canal Fog Navigation Study: Candidate system definition
[PB84-180793] 20 p3249 N84-30624
Panama Canal Fog Navigation Study: System requirements statement
[PB84-179811] 20 p3249 N84-30625

SPITZER, M. B.
Development of GaAs/Si and GaAs/Si monolithic structures for future space solar cells 19 p3046 N84-29327

SPITZER, W. G.
High resolution measurements of impurity-induced localized vibrational modes in semiconductors
[AD-A141577] 19 p3110 N84-29762

SPITZMESSER, D. J.
Satellite Emission Range Inferred Earth Survey (SERIES) project
[NASA-CR-173728] 18 p2791 N84-27714

SPIVAK, A. L.
Thermal conductance measurements of pressed OFHC copper contacts at liquid helium temperatures
[NASA-TM-85861] 03 p0429 N84-12809
A helium-3 refrigerator employing capillary confinement of liquid cryogen 06 p0821 N84-15353

SPJELDVIK, W. N.
The Earth's radiation belts
[AD-A142673] 20 p3241 N84-30574

SPLETTSTOESSER, W. R.
Model helicopter rotor high-speed impulsive noise: Measured acoustics and blade pressures
[NASA-TM-85850] 01 p0003 N84-10020
Field evaluation of proposed ICAO annex 16 takeoff noise certification procedure for propeller-driven airplanes not exceeding 5700 kg
[DFVLR-FB-83-34] 12 p1901 N84-22378
Propeller and rotor noise testing in aeroacoustic wind tunnels 14 p2097 N84-23583

SPOELSTRA, T. A. T.
Correcting radio astronomy interferometry observations for ionospheric refraction 15 p2324 N84-24957

SPOHN, C.
Technical applications of solar energy. Project photovoltaic systems and project selective coatings
[BMFT-FB-T-83-299] 12 p1844 N84-22025

SPONG, D. A.
Radial structure of curvature-driven instabilities in hot-electron plasma
[DE84-002256] 06 p0921 N84-15986

SPONG, L.
The crater density of a linear feature 15 p2427 N84-25577

SPOONER, S.
Microstructural evaluation of a ferritic stainless steel by small angle neutron scattering
[DE84-009487] 19 p2995 N84-28980

SPRAFKA, R. J.
Study of systems and technology for liquid hydrogen production independent of fossil fuels
[NASA-CR-173422] 13 p1965 N84-22768

SPRAGUE, M. E.
The Electric Vehicle Project
[DE84-011788] 21 p3522 N84-32309

SPRAGUE, R. A.
Gas turbine engine design considerations as related to alloys of high critical element content 23 p3703 N84-33470

SPRANGLE, P.
Conceptual design of a 300-GeV accelerator based on the inverse free-electron laser mechanism
[DE84-001471] 04 p0601 N84-13969
Research on intense electron beams and applications
[AD-A134068] 05 p0743 N84-14882

Dynamics of a high current electron ring in a conventional betatron accelerator
[AD-A133291] 06 p0914 N84-15945
Beam current limitations due to instabilities in modified and conventional betatrons
[AD-A133337] 06 p0915 N84-15947
The evolution of spontaneous and coherent radiation in the free electron laser oscillator
[AD-A134458] 08 p1165 N84-17583
New high power coherent radiation sources
[AD-A137317] 10 p1479 N84-19662
High current induction accelerators
[AD-A142303] 19 p3102 N84-29703
Longitudinal and transverse instabilities in a high current modified betatron electron accelerator
[AD-A142822] 21 p3493 N84-32132

SPRECHER, A. F.
The electroplastic effect in metals
[AD-A141526] 19 p2994 N84-28971

SPREITER, J. R.
Patterns of magnetic field merging sites on the magnetopause 16 p2572 N84-26511
Characteristics of the magnetospheric source of interplanetary energetic particles 16 p2573 N84-26512
Magnetopause merging site asymmetries 16 p2573 N84-26513
Magnetic field draping against the dayside magnetopause 16 p2573 N84-26514
The magnetic field of Mars: Implications from gasdynamics modeling 16 p2573 N84-26515

SPRING, D.
Convex integration of non-linear systems of partial differential equations 14 p2210 N84-24271

SPRINGER, G. S.
Curing of graphite/epoxy composites
[AD-A130071] 01 p0030 N84-10191
Strength of bolted joints in laminated composites
[AD-A141826] 19 p2986 N84-28921

SPRINGER, R.
Investigation of the technology of the microwave landing system Time Reference Scanning Beam (TRSB)
[BMFT-FB-W-84-008] 19 p2962 N84-28774

SPRINGER, R. J.
Advanced Ultra-Violet (UV) aircraft fire detection system. Volume 3: Ground Support Equipment (GSE) for system check-out
[AD-A130298] 01 p0006 N84-10039

SPRINGER, R. W.
Auger and depth profile analysis of synthetic crystals for dispersion of soft X-rays
[DE83-015257] 02 p0293 N84-11918

SPRINGETT, J. C.
Land Mobile Satellite Service (LMSS) channel simulator: An end-to-end hardware simulation and study of the LMSS communications links
[NASA-CR-173744] 18 p2828 N84-27956

SPRINGMEYER, B.
PICTURE: An interactive tool for creating visual aids. Reference manual, version 2.0
[DE84-007447] 12 p1884 N84-22279

SPRINKLE, D. R.
Technique for measuring gas conversion factors
[NASA-CASE-LAR-13220-1] 22 p3598 N84-32786

SPRIPCHENKO, A. I.
Fusing capacity of concentrated laser beam 23 p3710 N84-33515

SPROTT, J. C.
Experimental observation of the shear Alfven resonance in a Tokamak
[DE84-012993] 20 p3306 N84-30998

SPROUSE, G. D.
Temperature dependence of the electric-field gradient in Er metal
[DE83-015564] 03 p0454 N84-12989

SPRUNT, S.
Optical spectroscopy of disordered materials and X-ray scattering from surfaces 22 p3682 N84-33345

SPRY, A. J.
Research in the design of high-performance reconfigurable systems
[NASA-CR-173998] 24 p3942 N84-34957

SPUDIS, P. D.
Mercury: New identification of ancient multi-ring basins and implications for geologic evolution 13 p2077 N84-23463
Ring spacing of Mercurian multi-ring basins and basin ring formation 13 p2078 N84-23464

SPUR, G.
Dressing methods for grinding wheels made of superhard abrasive materials
[CSIR-TRANS-1700] 08 p1141 N84-17419

SPURLIN, O. L.
Physical performance tests as predictors of task performance
[AD-P003257] 18 p2905 N84-28424

SPYCHALSKI, S. E.
Deep-Towed Array Geophysical System (DTAGS): A hardware description
[AD-A142970] 21 p3444 N84-31851

SPYROU, E.
MA-2026 environmental monitoring system
[DE84-006222] 11 p1676 N84-20938

SPYROU, S. M.
Negative ion formation in SF6 spark by-products
[DE84-012340] 20 p3181 N84-30212

SQUIER, S. E.
Overview of Roof Pond Systems 16 p2516 N84-26150

SQUILLANTE, M.
Replicated CdTe substrates
[AD-A133114] 06 p0922 N84-15994
Low cost, sprayed CuInSe2 solar cell research
[DE84-005339] 10 p1530 N84-20023
Low cost, sprayed CuInSe2 solar cell research
[DE84-010480] 20 p3235 N84-30533

SQUIRE, V. A.
A study of satellite radar altimeter operation over ice-covered surfaces
[ESA-CR(P)-1810] 08 p1179 N84-17683

SQUYRES, S. W.
Geologic studies of outer solar system satellites: Iapetus and Europa 13 p2075 N84-23448
The Borealis Basin of Mars 13 p2079 N84-23472

SRAWLEY, J. E.
Mode 2 fatigue crack growth specimen development
[NASA-TM-83722] 19 p3034 N84-29248

SRI-JAYANTHA, M.
Data acquisition and aerodynamic coefficient estimation at high angles of attack 13 p1927 N84-22542

SRIDHAR, S.
Microwave dynamics of quasiparticles and critical fields in superconducting films 05 p0756 N84-14961

SRIJAYANTHA, M.
Data acquisition for stall/spin flight research 02 p0169 N84-11111

SRIKANTAIAH, D. V.
An analytical and experimental study of spectral analysis techniques for turbulence data obtained using laser velocimetry 02 p0217 N84-11424

SRINIVAS, D. N.
Phased-array-fed antenna configuration study. Volume 1: Technology assessment
[NASA-CR-168231] 07 p0991 N84-16423

SRINIVASAN, G. R.
Assessment of real gas effects on the prediction of the aerodynamics of high velocity Army shells
[AD-A134739] 08 p1099 N84-17150

SRINIVASAN, R.
Executive summary, aerothermal modeling program, phase 1
[NASA-CR-174602] 03 p0348 N84-12263
Aerothermal modeling program, phase 1
[NASA-CR-168243-VOL-1] 03 p0348 N84-12264
Aerothermal modeling program, phase 1
[NASA-CR-168243-VOL-2] 03 p0348 N84-12265
Modeling of dilution jet flowfields 11 p1611 N84-20547
On modeling dilution jet flowfields
[NASA-TM-83708] 16 p2450 N84-25713
Dilution jet mixing program
[NASA-CR-174624] 17 p2609 N84-26702

SRINIVASAN, T.
Generation of coherent, vacuum ultraviolet and extreme ultraviolet radiation 05 p0665 N84-14370

SRITHARAN, S. S.
Delta wings with shock-free cross flow
[NASA-CR-172297] 10 p1419 N84-19282
On the grid generation methods in harmonic mapping on plane and curved surfaces
[NASA-CR-172331] 12 p1893 N84-22327

SRIVASTAV, R. P.
Numerical solution of singular integral equations arising in mixed boundary value problems of elasticity
[AD-A134673] 08 p1220 N84-17965

SRIVASTAVA, P. C.
Nuclear-medicine
[DE84-000346] 04 p0571 N84-13759

SRIVASTAVA, R. C.
Analysis of Doppler lidar wind measurements 24 p3929 N84-34868

SRIVASTAVA, R. D.
Mass spectrometric decomposition studies on several azido and nitrato polymers, thermal plasticizers and novel nitramines
[AD-A134636] 08 p1137 N84-17398

SRIVASTAVA, S. K.
Means and method for calibrating a photon detector utilizing electron-photon coincidence
[NASA-CASE-NPO-15644-1] 23 p3749 N84-33767

SRIVASTAVA, V. J.
Biothermal conversion of biomass and wastes to methane
[DE84-006052] 11 p1675 N84-20931

SRNSKY, R. A.
Flow-visualization study of the MOD-2 wind-turbine wake
[DE83-014391] 01 p0080 N84-10523

SROGA, J. T.
Remote measurements of tropospheric aerosol scattering properties by an airborne high spectral resolution lidar 16 p2520 N84-26179

SRULL, D. W.
Improved management of support resources
[AD-P002808] 13 p2059 N84-23354

SRYVALIN, I. T.
Study of intermetallic compounds in ternary systems Al-Ba-Nd and Al-Ba-Yb
[BLL-M-35387-(5828.4)] 08 p1129 N84-17343

ST. JOHN, B.
Integrated Computer-Aided Manufacturing (ICAM) architecture part 3. Volume 1: Architecture part 3: Accomplishments
[AD-A134249] 07 p1055 N84-16829

ST.CLAIR, A. K.
Cobalt ion-containing epoxies
[NASA-TM-85715] 04 p0505 N84-13309
Process for improving moisture resistance of epoxy resins by addition of chromium ions
[NASA-CASE-LAR-13226-1] 11 p1636 N84-20700

ST.CLAIR, T. L.
Process for improving moisture resistance of epoxy resins by addition of chromium ions
[NASA-CASE-LAR-13226-1] 11 p1636 N84-20700
Thermoset-thermoplastic aromatic polyamide containing N-propargyl groups
[NASA-CASE-LAR-12723-2] 13 p1962 N84-22746
Polyphenylene ethers with imide linking groups
[NASA-CASE-LAR-12980-1] 13 p1962 N84-22749
An investigation of chemically-induced improvement in saturation moisture characteristics of epoxies
[NASA-TM-85626] 18 p2809 N84-27834
A study of the effects of end-cap molecular species on environmental characteristics of polimidesulfones
[NASA-TM-86283] 22 p3544 N84-32437
Structural pressure sensitive silicone adhesives
[NASA-CASE-LAR-13270-1] 22 p3558 N84-32532
Melt-flow-toughness modified polyimide
[NASA-CASE-LAR-13135-1] 24 p3867 N84-34616

ST.JOHN, M. R.
Solar-assisted hydrogen generation by photoelectrocatalysis: Electric birefringence and ellipsometric spectroscopy of the semiconductor/electrolyte interface
[PB84-169804] 15 p2288 N84-24731

ST.JOHN, W.
Integrated Computer-Aided Manufacturing (ICAM) architecture, part 3. Volume 5: Composite function model of manufacture product (MFG0)
[AD-A142337] 20 p3272 N84-30796
Integrated Computer-Aided Manufacturing (ICAM) architecture. Part 3, Volume 6: Composite information model of 'Manufacture product' (MFG1)
[AD-A143072] 21 p3466 N84-31973

ST.LAWRENCE, W. F.
A study on the tensile strength of ice as a function of grain size
[AD-A134889] 08 p1172 N84-17631

ST.MARTIN, J.
Evaluation of U.S. Coast Guard forward-looking airborne radars
[AD-A142417] 20 p3174 N84-30156

ST.SEIDENFUS, H.
The supplier: Constraints and prospects 10 p1424 N84-19311

STAAHLBERG-CARLSTEDT, B.
Coherence of appraisal and coping: Parachute jump effectiveness
[FOA-C-55058-H3] 03 p0416 N84-12724

STAATH, J. C.
Cylindrical v-grooved non-metallic optical fibre cable 11 p1723 N84-21242

STABE, R. G.
Performance of a high-work low aspect ration turbine tested with a realistic inlet radial temperature profile
[NASA-TM-83655] 15 p2262 N84-24589

STABILE, D. A.
The design of information structures: Basic allocation strategies for organizations
[AD-P002909] 13 p1981 N84-22861

STACEWICZ, R. H.
Service-life induced failure of bird impact resistant windshields
[AD-P003195] 17 p2591 N84-26608

STACEY, W. M., JR.
Effects of neutral beam injection on impurity transport in Tokamaks
[DE84-001857] 05 p0750 N84-14926
Rotation and impurity transport in a Tokamak plasma with directed neutral beam injection
[DE84-006014] 20 p3306 N84-30996
Investigation of neutral beam driven impurity flow reversal as an impurity control method in future Tokamaks
[DE84-006855] 21 p3501 N84-32191

STACH, J. R.
Electrical, chemical, and microstructural characterization of gettering mechanisms for VLSI (Very Large Scale Integrated Circuits)
[AD-A138662] 13 p1986 N84-22893

STACHNIK, R. V.
A study of a space-station-associated multiple spacecraft Michelson spatial interferometer
[NASA-CR-175438] 11 p1624 N84-20630

STACY, A. B., JR.
Mechanical fastener
[NASA-CASE-LAR-12738-2] 06 p0795 N84-15180

STADELMAIER, H. H.
Fundamental studies of growth, doping and transformation in beta silicon carbide
[AD-A140924] 17 p2769 N84-27582

STAEHR, W.
State-of-the art Differential Absorption and Scattering (DAS) lidar for SO2 and NO2 23 p3780 N84-33966

STAELIN, D. H.
Radio astronomy 22 p3683 N84-33349
Passive microwave remote sensing of the atmosphere from satellites 23 p3774 N84-33923

STAFFANS, O. J.
On the almost periodicity of the solutions of an integrodifferential equation
[AD-A139312] 14 p2213 N84-24293

STAFFANSON, F. L.
A portable real-time data processing system for standard meteorological radiosondes
[NASA-CR-175358] 07 p1036 N84-16719

STAFSUDD, O. M.
Nd-3+ Beta prime prime alumina platelet laser
[AD-A142797] 21 p3409 N84-31621

STAGGS, M. C.
Damage thresholds of fused silica, plastics and KDP crystals measured with 0.6-ns 355-nm pulses
[DE84-009534] 18 p2847 N84-28080
Laser damage in porous-silica antireflection films
[DE84-009535] 19 p3030 N84-29216
Recent damage results for antireflection coatings at 355 NM
[DE84-011560] 21 p3371 N84-31388

STAHARA, S. S.
Application of a global solar wind/planetary obstacle interaction computational model: Earth, Venus, Mars, Jupiter and Saturn studies
[NASA-CR-173531] 16 p2572 N84-26509
Application of a global solar wind/planetary obstacle interaction computational model: Earth, Venus, Mars, Jupiter and Saturn studies 16 p2572 N84-26510
Patterns of magnetic field merging sites on the magnetopause 16 p2572 N84-26511
Characteristics of the magnetospheric source of interplanetary energetic particles 16 p2573 N84-26512
Magnetopause merging site asymmetries 16 p2573 N84-26513
Magnetic field draping against the dayside magnetopause 16 p2573 N84-26514
The magnetic field of Mars: Implications from gasdynamics modeling 16 p2573 N84-26515

STAHL, R. L.
Use of aircraft imagery in evaluating ground stability at open-pit uranium mines in Gas Hills, Wyoming
[DE83-903011] 03 p0401 N84-12621
Water resources data for Illinois, water year 1982. Volume 1: Illinois except Illinois River Basin
[PB84-120112] 09 p1338 N84-18738
Water resources data for Illinois, water year 1982. Volume 2: Illinois River Basin
[PB84-120120] 09 p1338 N84-18739

STAHLBERG, J.
Line formation in turbulent media 15 p2421 N84-25542

STAHLE, C. V., JR.
Investigation of articulated panel dynamics 08 p1112 N84-17230

STAHLER, W. D.
General Purpose Electronic Test Equipment (GPETE) acquisition considerations for automated calibration
[AD-A133865] 05 p0718 N84-14709

STAHLSCHMIDT, K.
The evaporation of iron and its alloying elements, copper and manganese, under reduced pressure using the levitation melting technique
[BLL-OA-TRANS-3117-(6196.3)] 09 p1281 N84-18367

STAINBACK, P. C.
An evaluation of factors affecting the flow quality in wind tunnels 14 p2096 N84-23577

STAKHOVSKAYA, Z. I.
Some specifics of influence of pore pressure on physical properties of deformable rocks 18 p2864 N84-28180

STALLARD, B. W.
Design and fabrication of circular and rectangular components for electron-cyclotron-resonant heating of tandem mirror experiment-upgrade
[DE84-003244] 07 p1078 N84-17010
Polarizing holographic reflector for Electron Cyclotron Resonant Heating (ECRH) on the Tandem Mirror Experiment Upgrade (TMX-U)
[DE84-003740] 08 p1162 N84-17568
Circular waveguide systems for electron-cyclotron-resonant heating of the tandem mirror experiment-upgrade
[DE84-003739] 08 p1233 N84-18062
Fundamental mode rectangular waveguide system for Electron-Cyclotron Resonant Heating (ECRH) for tandem mirror experiment-upgrade (TMX-U)
[DE84-009085] 15 p2322 N84-24940
Microwave measurement test results of circular waveguide components for Electron Cyclotron Resonant Heating (ECRH) of the Tandem Mirror Experiment-Upgrade (TMX-U)
[DE84-009538] 19 p3108 N84-29746
Focusing twist reflector for electron-cyclotron resonance heating in the Tandem Mirror Experiment-upgrade
[DE84-012954] 22 p3578 N84-32663

STALLINGS, D. W.
Aerodynamic and Propulsion Test Unit (APTU) performance with a vitiated air heater 20 p3144 N84-29964

STALLINGS, R. L., JR.
Aerodynamic characteristics of a Sparrow 3 missile model in the flow field of a generalized parent body at Mach 2.86
[NASA-TM-85713] 08 p1097 N84-17134

STALLKAMP, J. A.
Implementation of the Sun position calculation in the PDC-1 control microprocessor 18 p2875 N84-28257

STALLWORTH, G. R.
Water resources data for Louisiana, water year 1982. Volume 1: Central and Northern Louisiana
[PB84-118546] 09 p1339 N84-18750

STALNAKER, W. A.
Interactive modeling using the PATRAN-G program 12 p1872 N84-22201

STAM, M.
Differential degradation of Martian impact basins 13 p2078 N84-23468

STAMBAUGH, K. A.
Fatigue considerations in view of measured load spectra
[AD-A140221] 17 p2679 N84-27067

STAMM, H.
Calculation of crack behaviour on exposure to thermal shock
[BLL-RISLEY-TR-4941-(9091.9F)] 20 p3200 N84-30326

STAMM, P. L.
Liu fault diagnosis investigation
[AD-A137552] 11 p1706 N84-21119

STAMMERS, S. M.
TIS: An intelligent gateway computer for information and modeling networks. Overview
[DE83-017986] 04 p0616 N84-14067

STAMPACCHIA, R.
Critical slowing-down in microwave absorptive bistability 14 p2237 N84-24429

STAMPER, J. A.
Observation of magnetic fields in laser-produced plasma using the Zeeman effect
[DE84-002742] 06 p0921 N84-15989
Variation of laser absorption with plasma scalelength in long-scalelength plasmas
[DE84-002743] 06 p0921 N84-15991
X-ray production in long-scale length laser-plasma interaction experiments
[DE84-002472] 07 p1076 N84-16997
Spectroscopic measurements of the Laser-HANE plasma
[AD-A138685] 13 p1995 N84-22947
Introduction to the Laser-HANE experiment and summary of low-pressure interaction results
[AD-A138945] 13 p1996 N84-22952
Optical imaging of a coupling region between inter-streaming plasmas
[AD-A139191] 14 p2224 N84-24348
Magnetic bubble formation produced by an expanding laser plasma
[AD-A139188] 14 p2228 N84-24359
Blast-wave analysis of high-pressure coupling shells
[AD-A139687] 15 p2350 N84-25108
Observation of Rayleigh-Taylor-Like structures in a laser-accelerated foil
[AD-A140294] 16 p2556 N84-26399

STAMPFER, J. F.
Evaluation of proposed human subject certification tests for self-contained breathing apparatus
[PB84-172212] 17 p2748 N84-27447

STANCIL, R. T.
Improved wave drag predictions using modified linear theory
[NASA-CR-174494] 03 p0320 N84-12096

STANDER, C. M.
Use of scanning electron microscopy in studying surface reactions of metals with hydrogen 06 p0816 N84-15318

STANEK, E. K.
Performance and test criteria for dc fuses, phase 1
[PB84-202662] 21 p3395 N84-31548

STANEK, R. P.
Operational studies and expected performance of superconducting quadrupole magnets in the first stages of secondary beams
[DE83-016734] 03 p0456 N84-12999

STANEWSKY, E.
Transonic cryogenic test section for the Goettingen tube facility
[NASA-TM-77050] 07 p0959 N84-16219
High Reynolds number tests of the cast 10-2/DOA2 transonic airfoil at ambient and cryogenic temperature conditions 14 p2096 N84-23575
High Reynolds number tests of the cast 10-2/DOA 2 airfoil in the Langley 0.3-meter transonic cryogenic tunnel, phase 2
[NASA-TM-86273] 23 p3689 N84-33382

STANFORD, G.
Microwave radiometric measurement of sea surface salinity
[AD-A141302] 18 p2893 N84-28359

STANFORD, J., JR.
Increase in whole-body peripheral vascular resistance during three hours of air or oxygen prebreathing
[NASA-TM-58261] 20 p3259 N84-30684

STANG, R. G.
Dislocation/obstacle interactions during low-dose irradiation creep of nickel
[DE84-001416] 04 p0504 N84-13303

STANGEL, J. J.
A compact fully overlapping subarray antenna
[AD-P003407] 19 p3015 N84-29111

STANISLAS
European plans for handling off-line tasks of the ERS-1 23 p3784 N84-33997

STANISLAVSKIY, L. Y.
Problems of technical electrodynamics (selected articles)
[AD-A140972] 18 p2833 N84-27985

STANKE, F. E.
Unified theory and measurements of elastic waves in polycrystalline materials 21 p3489 N84-32110

STANKOVIC, J. A.
Decentralized control of scheduling in distributed processing systems
[AD-A131548] 02 p0301 N84-11976

STANKUS, A. I.
Response of cardiac rhythm to information load 18 p2898 N84-28384

STANLEY, A. E.
CO2 laser decomposition of the alkyl phosphites 21 p3373 N84-31402

STANLEY, G.
The time it takes to see 24 p3914 N84-34782
Detecting camouflaged targets: Theory into practice 24 p3914 N84-34784

STANLEY, J. E.
Interplanetary dust experiment (A0201) 15 p2277 N84-24671

STANLEY, J. P.
LANDSAT-4 horizon scanner performance evaluation
[E84-10079] 07 p1022 N84-16626
LANDSAT-4 horizon scanner full orbit data averages
[E84-10080] 07 p1022 N84-16627

STANLEY, J. S.
Comprehensive assessment of the specific compounds present in combustion processes. Volume 1: Pilot study of combustion emissions variability
[PB84-140870] 11 p1630 N84-20665

STANLEY, J. T.
Kinetics of structural relaxation in metallic glasses
[DE83-015924] 02 p0201 N84-11309
Isothermal calorimetric investigation of a reversible reaction in rapidly solidified Fe40Ni40B20
[DE84-006013] 15 p2298 N84-24791
STANLEY, R. J.
Hydrographic station data of five surveys of the beta-triangle in the eastern North Atlantic, 1978 - 1981
[PB84-100874] 08 p1196 N84-17800
STANLEY, W. D.
Theoretical and experimental studies of error in square-law detector circuits
[NASA-TM-86307] 23 p3741 N84-33714
STANNARD, P. R.
NASCAP simulations of spacecraft charging of the SCATHA satellite 08 p1117 N84-17268
STANNETT, V. T.
European research on polymers and composites
[AD-A139760] 15 p2302 N84-24813
STANSFIELD, S. A.
Angles-only, ground-based, initial orbit determination
[AD-A142994] 21 p3348 N84-31241
STANTON, A. C.
Absolute collisional excitation cross section measurements using crossed molecular beams
[AD-A132038] 03 p0432 N84-12830
Automatic holographic droplet analysis for liquid fuel sprays 11 p1609 N84-20531
STANTON, P.
ISEE-3 microwave filter requirements
10 p1475 N84-19632
STANZIONE, T.
Utility of the cortical evoked response as a measure of photographic image quality
[AD-A131679] 03 p0377 N84-12455
STAPAY, J. R.
Advanced fuel-cell development
[DE84-002685] 05 p0676 N84-14445
STAPELBERG, L. S.
Construction planning and control: Current practice and continuing challenges 05 p0718 N84-14706
STAPELMANN, J.
Concept study of an automatic ellipsoidal mirror furnace facility, prephase A. Volume 1: Executive summary
[ERC-RP-200-DS-009-VOL-1] 08 p1141 N84-17423
Concept study of an automatic ellipsoidal mirror furnace facility, prephase A. Volume 2: Technical descriptions
[ERC-RP-200-DS-009-VOL-2] 08 p1141 N84-17424
STAPLES, A.
Optimizing coagulation-adsorption for haloform and TOC (Total Organic Carbon) reduction
[PB83-210757] 01 p0058 N84-10378
STAPLES, J.
RFQ development at LBL
[DE84-006762] 13 p2045 N84-23271
STAPLES, R. E. J.
Operational performance characteristics of a multiply-shrouded, angled-diffuser stack gas eductor in turbulent cross-flow
[AD-A139953] 15 p2343 N84-25068
STAPLETON, B. P.
MLS/Airplane system design. RF component design
[NASA-CR-172339] 15 p2259 N84-24567
STAPPAERTS, E.
Scaling studies of efficient Raman converters
[AD-A130382] 01 p0086 N84-10560
STAR, J. L.
Activities of the Remote Sensing Information Sciences Research Group
[E84-10177] 21 p3427 N84-31739
NASA pilot land data system
21 p3427 N84-31741
Applying artificial intelligence to large networks
21 p3428 N84-31743
Annotated bibliography of global resources information systems related publications 21 p3428 N84-31746
Global resources information system
21 p3428 N84-31747
STARACE, A. F.
Hyperspherical coordinate theory of 2 electron atomic processes
[DE84-009447] 19 p3102 N84-29705
STARCHER, K. O.
Human factors: A necessary tool for industry
[DE84-007531] 15 p2385 N84-25304
STARK, J. L.
Thermophysical property determination using transient techniques
[AD-A130707] 01 p0156 N84-11027
STARK, M. A.
Low-inductance, dual-feed diode development
[DE84-000117] 04 p0527 N84-13465
STARK, R. M.
On 'Before' and 'After' cost comparisons
[AD-P002799] 13 p2058 N84-23345
STARK, Y. S.
Calculation of critical temperatures and correlation parameters in binary alloys by the method of BBGKI equations
[BLL-M-35200-(5828.4)] 01 p0042 N84-10272
Calculation of short-range-order structures in Cu-14.5 percent (atom.) Al
[BLL-M-35115-(5828.4)] 01 p0152 N84-10997
Interaction potentials in substitutional solid solutions
[BLL-M-35132-(5828.4)] 01 p0152 N84-10998
Method of high-temperature expansions in short-range order theory
[BLL-M-35385-(5828.4)] 08 p1129 N84-17344
Determination of the mixing potential in alloys from experimental data on short-range order
[BLL-M-35498-(5828.4)] 12 p1795 N84-21709
STARKE, E. A., JR.
The effects of powder metallurgical processing and intermediate thermal mechanical treatment on the fatigue properties of high strength aluminum alloys
[AD-A130790] 01 p0044 N84-10282
The effect of microstructure on the properties of high strength aluminum alloys
[AD-A133997] 05 p0653 N84-14296
The use of novel processing procedures for improving the overall fatigue resistance of high strength aluminum alloys
[AD-A141107] 19 p2993 N84-28966
STARKEN, H.
Design procedures for compressor blades
[NASA-TM-77085] 06 p0852 N84-15552
STARKENBERG, J. J.
A 2-dimensional numerical study of detonation propagation between munitions by means of shock initiation
[AD-A133680] 05 p0661 N84-14346
A numerical study of shock initiation of composition-b by high-speed impact of small steel projectiles
[AD-A139629] 15 p2303 N84-24821
STARKEY, A.
State-coupled low temperature geothermal resource assessment program, Fiscal Year 1982
[DE84-002640] 10 p1526 N84-19997
STARKOV, F. A.
Joint analysis of the data obtained by detecting the general, muon, and neutron components of cosmic ray intensity on May 7, 1978 24 p3993 N84-35270
STARKOV, V. N.
Optical hysteresis and bistability in the wave-front conjugation by electrooptic crystals
14 p2234 N84-24406
STARNES, J. H., JR.
Postbuckling behavior of graphite-epoxy panels
20 p3146 N84-29976
STAROSTENKO, V. I.
Solution of direct problem in gravimetry on spherical Earth 17 p2700 N84-27202
STAROSTENKOV, M. D.
Influence of choice of pair-interaction potential on results of modelling an edge dislocation in Alpha-iron
[BLL-M-35682-(5828.4)] 22 p3553 N84-32499
STAROVIT, V. V.
Incentives for new production discussed
13 p2064 N84-23388
STARR, D. O.
Numerical experiments on the formation and maintenance of cirriform clouds
02 p0252 N84-11649
STARR, R.
A balloon-borne high-resolution spectrometer for observations of gamma-ray emission from solar flares
[NASA-TM-86069] 09 p1416 N84-19266
Expressions to determine temperatures and emission measures for solar X-ray events from GOES measurements
[NASA-TM-86142] 22 p3679 N84-33325
STARRETT, H. S.
Characterization of filament wound Kevlar and glass composites for rocket motor applications
20 p3142 N84-29949
STARRETT, R. E.
The effects of space charge on ionic mobility measurements in cylindrical geometries
06 p0922 N84-15993
STARRFIELD, S.
Hydrodynamic simulations of a combined hydrogen, helium thermonuclear runaway on a 10 km neutron star
[DE83-012658] 03 p0463 N84-13047
Theoretical calculation of rapid X-ray transients and radius expansion
[DE84-001312] 06 p0941 N84-16114
STARRH, L.
An extended range pendulous velocity gage
[AD-P002683] 11 p1658 N84-20820
Extended-range pendulous velocity gage
[DE83-012749] 12 p1819 N84-21856
STARTSEV, O. V.
Influence of natural exposure in space on physical-mechanical properties of carbon reinforced plastic 24 p3872 N84-34536
STASKOWSKI, R.
Evaluation of LANDSAT-D Thematic Mapper performance as applied to hydrocarbon exploration
[E84-10154] 19 p3038 N84-29275
STASSEN, H.
The Man-Machine Systems Group
20 p3263 N84-30704
Information processing for use in the treatment of severely physically handicapped persons
20 p3264 N84-30711
Evaluation of arm protheses for unilateral amputees
20 p3264 N84-30713
Communication aids for the handicapped
20 p3265 N84-30715
STASSINOPOULOS, E. G.
TOPEX orbital radiation study
[NASA-TM-85447] 16 p2582 N84-28562
STASZ, C.
Successful use of microcomputers in classroom instruction
[RAND/P-6853] 12 p1876 N84-22229
STATECNY, Z.
VARS: Multilevel automated control system
18 p2918 N84-28507
STATHIS, J. H.
Electronic properties of amorphous silicon dioxide
22 p3683 N84-33351
STATTEL, R. J.
Memory-based parallel data output controller
[NASA-CASE-GSC-12447-2] 18 p2916 N84-28491
STAUDACHER, W.
Vortex flap system for thin wings
[MBB-FE-122/S/PUB/102] 16 p2562 N84-26435
STAUDENMANN, J. L.
Monochromator for continuous spectrum X-ray radiation
[DE84-014239] 23 p3751 N84-33781
STAUFENBIEL, W.
The automated cadastral plan, a source for the topographic country map works
20 p3227 N84-30508
STAUFFER, M. L.
Impact of Thematic Mapper sensor characteristics on classification accuracy 20 p3213 N84-30410
Quick look analysis of TM data of the Washington, District of Columbia area 20 p3214 N84-30418
STAUGAITIS, C. L.
Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] 11 p1632 N84-20670
STAUNING, P.
HF omnidirectional spectral CW auroral radar (HF-OSCAR) at very high latitude. Part 1: Technique
[DMI-GEOPHYS-PAPERS-R-67]
19 p3010 N84-29079
STAUSEBACH, D.
First investigations on a wrapped fiber blanket insulation with massive spacers consisting of carbon fiber composite
[JUEL-1840] 05 p0646 N84-14247
STAUTBERG, J. L.
Multibus Avionic Architecture Design Study (MAADS)
[AD-A138226] 12 p1770 N84-21546
STAVINOHA, L. L.
Middle distillate fuel stability characteristics: A review
[AD-A132156] 04 p0509 N84-13337
STAVRINIDIS, C.
Dynamic synthesis and evaluation of spacecraft structures
[ESA-STR-208] 20 p3135 N84-29904
STCLAIR, A. K.
Process for improving mechanical properties of epoxy resins by addition of cobalt ions
[NASA-CASE-LAR-13230-1] 24 p3878 N84-34571
STEARNS, C. A.
Experimental and theoretical deposition rates from salt-seeded combustion gases of a Mach 0.3 burner rig
[NASA-TP-2225] 10 p1490 N84-19741
Mechanism of corrosion of Ni base superalloys by molten Na2MoO4 at elevated temperatures
[NASA-TM-83580] 11 p1632 N84-20672
Chemical mechanisms and reaction rates for the initiation of hot corrosion of IN-738
[NASA-TP-2319] 19 p2992 N84-28958
Deposition of Na2SO4 from salt-seeded combustion gases of a high velocity burner rig
[NASA-TM-83751] 21 p3398 N84-31558
STEARNS, E. M.
Energy efficient engine: Flight propulsion system, preliminary analysis and design update
[NASA-CR-167960] 02 p0179 N84-11170

STEARNS, S. D.
Adaptive coherence estimation
[DE84-006486] 15 p2393 N84-25361
STEBBINS, S. B.
Frequency stability analysis of GPS (Global Positioning System) NAVSTARs 3 and 4 rubidium clocks and the NAVSTARs 5 and 6 cesium clocks
[AD-A137376] 10 p1425 N84-19318
STECH, H. W.
An example of boundary layer in delay equations
[AD-A129144] 01 p0129 N84-10842
STECH, J. L.
A first attempt to identify areas of high probability for the occurrence of surface skipjack schools (Katsuwonus pelamis), from an analysis of oceanographic data for the south-southeast region of Brazil
[INPE-2972-RPE/449] 23 p3803 N84-34112
STECHER, J.
Thirteenth Space Simulation Conference. The Payload: Testing for Success
[NASA-CP-2340] 24 p3861 N84-34468
STECHER, T. P.
Positive-feedback photometric drift in the PDS
18 p2840 N84-28025
STECHMAN, R. C.
Low thrust bipropellant engine development
20 p3136 N84-29912
STECIAK, J.
Combustibility of electrical wire and cable for rail rapid transit systems. Volume 1: Flammability
[PB83-233742] 02 p0217 N84-11420
STECKEL, D. K.
Results of design studies and wind tunnel tests of high-aspect-ratio supercritical wings for an energy efficient transport
[NASA-CR-150332] 19 p2956 N84-28735
STECKER, F. W.
Cosmic ray antimatter and baryon symmetric cosmology
[NASA-TM-83958] 04 p0622 N84-14103
The case for antiparticles in the extragalactic cosmic radiation
[NASA-TM-86070] 11 p1760 N84-21487
Matter antimatter domains: A possible solution to the CP domain wall problem in the early universe
[NASA-TM-86100] 15 p2425 N84-25565
Axions, neutrinos and strings: The formation of structure in an SO(10) universe
[NASA-TM-86139] 22 p3678 N84-33317
Implications of a class of grand unified theories for large scale structure in the universe
[NASA-TM-86146] 24 p3987 N84-35240
STECKLER, K. D.
Calculations of wall fire spread in an enclosure
[PB84-123165] 09 p1297 N84-18481
Fire induced flows through room openings - flow coefficients
[PB84-176759] 20 p3151 N84-30011
STECURA, S.
Improved thermal barrier coating system
[NASA-CASE-LEW-14057-1] 23 p3724 N84-33595
STEDMAN, D. H.
Chemiluminescent/laser diode measurement technique intercomparison and captive air measurement program
[PB84-134485] 11 p1661 N84-20839
STEEB, R.
Strategies of cooperation in distributed problem solving
[AD-A136527] 09 p1371 N84-18955
Distributed problem solving for air fleet control: Framework and implementations
[AD-A143168] 21 p3327 N84-31108
STEEDS, J. W.
Lattice-parameter measurement in retained austenite by CBED
[DE83-013295] 02 p0195 N84-11257
STEELE, B. C. H.
Energetics of oxygen ion transport in fluorite, perovskite and other oxide structures 11 p1740 N84-21354
Oxygen exchange measurements on zirconia-yttria electrolyte surfaces modified by various dopants
11 p1742 N84-21367
STEELE, E. I.
USAF/SCEEE summary faculty research program, research reports, volume 1
[AD-A130769] 01 p0157 N84-11032
USAF/SCEEE summary faculty research program (1982) research reports, volume 2
[AD-A130770] 03 p0457 N84-13009
STEELE, E. L.
The United States Air Force graduate student summer support program, 1983. Management report
[AD-A139363] 14 p2245 N84-24483
United States Air Force summer faculty research program, 1983. Program management report
[AD-A139366] 14 p2245 N84-24484
United States Air Force summer faculty research program, 1983, volume 1
[AD-A139403] 14 p2245 N84-24485
United States Air Force summer faculty research program, 1983, volume 2
[AD-A139404] 14 p2246 N84-24486
STEELE, F. K.
Climatological coefficients for rain attenuation at millimeter wavelengths
[PB84-104272] 08 p1148 N84-17475
STEELE, G. L., JR.
Transportability of NEBULA software
[AD-P003533] 21 p3331 N84-31137
STEELE, J. M.
Kingman's subadditive ergodic theorem
[AD-A131795] 03 p0427 N84-12801
STEELE, S. R.
A 20-GHz IMPATT diode development
[S-3057] 02 p0212 N84-11387
STEEN, J. A.
Cabin safety subject index
[AD-A140409] 16 p2445 N84-25683
STEEN, W. M.
Mathematical modelling of Laser/Material interactions
[AD-A141096] 19 p3029 N84-29208
STEENEKEN, H. J. M.
Active sound reduction systems
[IZF-1983-8] 12 p1900 N84-22371
STEENHUISEN, A.
The use of trajectories in short range weather forecasting
[KNMI-TR-35] 12 p1861 N84-22126
STEENMEYER, A.
West breakwater-Sines (Portugal). Overview of rehabilitation and synthesis of project
08 p1194 N84-17786
STEERS, L. L.
F-111 TACT natural laminar flow glove flight results
18 p2783 N84-27662
STEFANAKOS, E. K.
Thermal conductivity of ternary and quaternary III-V compounds
[AD-A135336] 08 p1235 N84-18070
Material growth and characterization for solid state devices
[NASA-CR-173265] 10 p1587 N84-20401
STEFANI, J. P.
Applications of teleseismic body waves to shallow Earth structure 23 p3795 N84-34064
STEFANIK, M.
Observations of the Earth's magnetic field from the Space Station: Measurement at high and extremely low altitude using Space Station-controlled free-flyers
[NASA-TM-86119] 16 p2521 N84-26183
STEFANISHIN, Y. I.
Autocorrelation receiver for Doppler short-range radar systems 22 p3566 N84-32589
STEFANSSON, V.
Analysis of production data from the Krafla geothermal field, Iceland
[DE84-006881] 13 p2006 N84-23014
STEFANSSON, V. V.
A summary of modeling studies of the Krafla Geothermal Field, Iceland
[DE84-000939] 05 p0697 N84-14578
STEFANUTTI, L.
The Istituto di Ricerca sulle Onde Elettromagnetiche (IROE)-lidar remote sensing of the environment
03 p0396 N84-12590
Laser remote sensing at IROE
24 p3907 N84-34747
STEFFEK, L. J.
The 30 GHz communications satellite low noise receiver
[NASA-CR-168254] 04 p0517 N84-13398
STEFFEN, D. A.
Training and performance support system: A new dimension in individualized instruction
[AD-P003315] 18 p2910 N84-28454
STEFFEN, J. E.
The electron Echo 6 mechanical deployment systems
15 p2348 N84-25094
STEFFEN, J. M.
Extensions of suspension systems to measure effects of hypokinesia/hypodynamia and antiorthostasis in rats
09 p1355 N84-18855
Effects of suspension on tissue levels of glucocorticoid receptors 09 p1360 N84-18884
STEFKO, G. L.
Noise of the SR-6 propeller model at 2 deg and 4 deg angles of attack
[NASA-TM-83515] 07 p1069 N84-16946
Application of an optimization method to high performance propeller designs
[NASA-TM-83710] 16 p2433 N84-25607
STEFKOVICH, M. E.
Effects of nozzle and grid acceleration of corona wind on cooling of a vertical flat plate
[AD-A141224] 18 p2837 N84-28007
STEFOULIS, C. T.
Modelling for fatigue crack growth prediction in Mirage IIIO frame 26
[ARL-STRUC-REPT-401] 24 p3912 N84-34772
STEGBUCHNER, H.
On some extensions of a theorem of Hardy and Littlewood 04 p0575 N84-13784
STEGEMAN, G. I.
Distributed feedback bistability in channel waveguides
14 p2236 N84-24417
STEGER, J. L.
Numerical computation of base flow for a projectile at transonic speeds
[AD-A130293] 01 p0004 N84-10027
Navier-Stokes computations of projectile base flow at transonic speeds with and without base injection
[AD-A135783] 09 p1252 N84-18176
Computation of viscous flow about advanced projectiles
[AD-A137935] 11 p1653 N84-20790
An efficient approximate factorization implicit scheme for the equations of gasdynamics
[NASA-TM-85957] 19 p3082 N84-29556
Algorithms for zonal methods and development of three dimensional mesh generation procedures
[AD-A141692] 19 p3086 N84-29592
Simulation of transonic separated airfoil flow by finite difference viscous-inviscid interaction
[NASA-TM-85980] 22 p3531 N84-32358
STEGER, L.
Use of radiation curing for the production of coated fabrics, profiles, flocking
[BMFT-FB-T-83-176] 07 p0980 N84-16350
STEIER, W. H.
Research in electronics: Joint services electronics program
[AD-A130791] 01 p0072 N84-10470
STEIGMAN, G.
Particle theory, cosmology and relativity
[DE84-003990] 11 p1760 N84-21489
STEIGMANN, D. J.
Review of aircraft crash structural response research
[AD-A131696] 03 p0331 N84-12160
STEIL, K.
Motivating managers: A guide to performance targeting and performance-based pay in state and local governments
[PB83-237834] 02 p0301 N84-11978
STEIMER, C. H.
Innovative method for the thermal cycling of large spacecraft systems 24 p3861 N84-34470
STEIN, B. A.
Hot melt adheeive pad surface attachment assembly concept for on-orbit operations
[NASA-TM-85771] 12 p1777 N84-21598
Rapid adhesive bonding concepts
[NASA-TM-86256] 20 p3145 N84-29968
STEIN, E. S.
A brief history of the use of simulation techniques in training and performance assessment
[AD-A140763] 17 p2746 N84-27437
The measurement of pilot performance: A master-journeyman approach
[AD-A142457] 20 p3262 N84-30698
STEIN, G.
Performance and robustness aspects of digital control systems 01 p0015 N84-10098
Advanced topics in robustness for multivariable control
[AD-A134606] 07 p1058 N84-16850
Some design guidelines and discrete-time adaptive controllers
[NASA-CR-173800] 20 p3278 N84-30808
Adaptive control with variable dead-zone nonlinearities
[NASA-CR-173980] 24 p3948 N84-35001
STEIN, H.
Investigation of interactions between helmet-mounted sight/display, sensor platform and human pilot
[ESA-TT-746] 16 p2539 N84-26299
STEIN, H. J.
Charge characteristics of ion-implanted and annealed nitride/oxide/Si structures
[DE83-012625] 01 p0153 N84-11009
STEIN, M.
Ion deposited carbon coatings
[AD-A135068] 08 p1136 N84-17390
Analytical results for postbuckling behavior of plates in compression and shear
[NASA-TM-85786] 14 p2157 N84-23922

STEIN, P. K.
Measurements on and with non-linear systems: Problems and approaches
[AD-P002673] 11 p1657 N84-20810
STEIN, R. J.
Longwall shearer tracking system
[NASA-CASE-MFS-25717-1] 23 p3749 N84-33768
STEIN, S. R.
Picosecond time difference measurements utilizing CAMAC-based ANSI/IEEE-488 data acquisition hardware. Operating manual IE3, version 1.0
[PB84-116011] 09 p1319 N84-18616
STEIN, V.
Mathematical models for the brightness temperature of object and environment in the microwave region
[DFVLR-FB-83-12] 02 p0211 N84-11378
STEIN, W. A.
Infrared astronomy research and high altitude observations
[NASA-CR-173526] 13 p2070 N84-23413
Publications resulting from Infrared Astronomy Research and High Altitude Observations
[NASA-CR-173525] 13 p2070 N84-23414
STEIN, W. E.
High-efficiency free-electron-laser experiments
[DE83-015218] 02 p0227 N84-11487
Electron-beam diagnostics for the Los Alamos free-electron oscillator experiment
[DE83-017230] 03 p0381 N84-12481
The Los Alamos free-electron-laser oscillator experiment: Plans and present status
[DE83-017290] 03 p0382 N84-12485
First operation of the Los Angeles free-electron laser oscillator
[DE84-006024] 11 p1664 N84-20856
STEIN, Y.
The role of surface generated radicals in catalytic combustion 11 p1613 N84-20555
STEINBACH, H. L.
Development of technology, circuit design and simulation procedures for Very Large Scale Integration (VLSI) systems, volume 1
[BMFT-FB-T-83-170-VOL-1] 10 p1487 N84-19724
Development of technology, circuit design and simulation procedures for Very Large Scale Integration (VLSI) systems, volume 2
[BMFT-FB-T-83-170-VOL-2] 10 p1487 N84-19725
STEINBACHER, J. G.
Operational and functional description of AERA 1.01
[AD-A136831] 10 p1425 N84-19322
STEINBECK, J.
Development of large area Multi-coloured Multifunctional Displays (MFA) in liquid crystal technology
[BMFT-FB-T-83-098] 02 p0300 N84-11970
STEINBERG, D. M.
Experimental design: Review and comment
[AD-A139268] 14 p2218 N84-24309
Bayesian models for response surfaces, 2: Estimating the response surface
[AD-A142768] 21 p3471 N84-32001
Bayesian models for response surfaces. 1: The equivalence of several models and their relationship to smoothing splines
[AD-A142843] 21 p3472 N84-32003
STEINBERG, J. L.
Measurement of macroscopic plasma parameters with a radio experiment: Interpretation of the quasi-thermal noise spectrum observed in the solar wind 03 p0470 N84-13096
STEINBERG, L.
A response model for multiple choice items
[AD-A139396] 14 p2214 N84-24297
STEINBERG, L. I.
A knowledge based approach to VLSI CAD
[AD-A133692] 05 p0675 N84-14434
STEINBERG, M.
Advanced technologies for the recovery, disposal, and reuse of carbon dioxide for atmospheric control
[DE83-016371] 03 p0347 N84-12256
An analysis of concepts for controlling atmospheric carbon dioxide
[DE84-004203] 10 p1532 N84-20033
STEINBICHLER, H.
High speed photography and pulsed laser holography for diagnostic investigations of mixture formation and vibration in reciprocating engines
[DFVLR-MITT-83-18] 12 p1819 N84-21857
STEINBRONN, O.
Space station needs, attributes and architectural options. Summary of major study activities and results. Space station program observations
[NASA-CR-173345] 09 p1267 N84-18275
A study of space station needs, attributes and architectural options. Volume 1: Executive summary
[NASA-CR-173705] 18 p2805 N84-27803
A study of space station needs, attributes and architectural options. Volume 2: Technical. Book 1: Mission requirements
[NASA-CR-173706] 18 p2805 N84-27804
STEINBROOK, R. A.
Naloxone does not affect ventilatory responses to hypoxia and hypercapnia in rats
[AD-A131836] 03 p0414 N84-12708
STEINDL, A.
Computation of current-voltage-characteristics in a semiconductor device using arc-length continuation
[AD-A137919] 11 p1647 N84-20770
STEINEMANN, S. G.
Mechanochemical effects in demineralization and mineralization of bone 23 p3808 N84-34146
STEINER, H. J.
Offset-reflector with horn feed array as an experimental sensor for radiometric measurements
[DFVLR-FB-83-16] 02 p0211 N84-11379
STEINETZ, B. M.
An advanced pitch change mechanism incorporating a hybrid traction drive
[NASA-TM-83709] 16 p2433 N84-25605
STEINHAUSER, R.
Design of a robust missile controller by vector performance optimization
[DFVLR-FB-84-05] 15 p2280 N84-24694
STEINHEIMER, J. T.
Water resources data for Colorado, water year 1982. Volume 3: Dolores River Basin, Green River Basin, and San Juan River Basin
[PB84-120146] 09 p1339 N84-18743
Water resources data for Colorado, water year 1982. Volume 2: Colorado River Basin above Dolores River
[PB84-120138] 10 p1527 N84-20004
STEINHOFF, J.
The treatment of convected vortices in compressible potential flow 03 p0324 N84-12121
STEININGER, K.
The relationship between personality and efficiency 17 p2744 N84-27423
STEINKIRCHNER, J. J.
Reliability modeling of critical electronic devices
[AD-A135705] 09 p1328 N84-18669
STEINLE, F. W., JR.
Computer studies of hybrid-slotted working sections with minimum interference at subsonic speeds
[NASA-TM-86002] 22 p3535 N84-32379
STEINMANN, D.
Development of silicon nitride gas turbine components, phase 2
[BMFT-FB-T-83-322] 15 p2262 N84-24591
STEINMETZ, G. G.
Development of a VOR/DME model for an advanced concepts simulator
[NASA-TM-85717] 11 p1604 N84-20505
STEINMETZ, N.
The specific solutions of a uniform algebraic differential equation of the second order 04 p0575 N84-13790
STEINMUELLER, P.
Laser technology: Material for separating, joining and surface treating
[RKW-836] 16 p2497 N84-26019
STEINOLFSON, R. S.
Modeling of transient disturbances in coronal-streamer configurations 03 p0474 N84-13119
STEINSVOLL, O.
Investigation of the paramagnetic phase of BCC iron using polarized neutron scattering
[DE84-002657] 07 p0974 N84-16315
Dynamics of itinerant ferromagnets above T sub c
[DE84-002695] 15 p2402 N84-25420
STEINVALL, O.
Information technique 1982: Underwater technique
[FOA-C-30296-E1,E2,E3] 07 p1085 N84-17058
Design and calibration of a CW coherent laser radar
[FOA-C-30345-E1] 15 p2320 N84-24930
Informatics 1983: Signal processing
[FOA-A-30033-E] 15 p2321 N84-24932
STELLA, P. M.
Solar-array-materials passive LDEF experiment (A0171) 15 p2274 N84-24656
Radiation Damage Workshop 19 p3049 N84-29346
STELLAR, F. W.
Evaluation of UH-1H hover performance degradation caused by rotor icing
[AD-A141252] 18 p2793 N84-27727
STELLMACHER, I.
Periodic orbits and libration in the Mimas-Tethys case 19 p3121 N84-29839
STENCEL, R. E.
Measurements of chromospheric densities and geometrical extensions of late-type giant and super-giant stars
[NASA-CR-175236] 07 p1089 N84-17079
STENGEL, J. D., JR.
An approach to a standardized simulator data base
[AD-P003469] 21 p3511 N84-32244
STENGEL, R. F.
Investigation of air transportation technology at Princeton University 02 p0169 N84-11108
Distributed processing and fiber optic communications in air data measurements 02 p0169 N84-11110
Artificial intelligence theory and reconfigurable control systems
[AD-A143766] 23 p3817 N84-34203
STENGER, F.
Ultrasound tomography by Galerkin or moment methods
[AD-A131408] 02 p0266 N84-11747
Explicit, nearly optimal, linear rational approximation with preassigned poles
[AD-A131392] 02 p0280 N84-11837
Rational function frequency extrapolation in ultrasonic tomography
[AD-A131447] 02 p0288 N84-11888
An adaptive, noise tolerant, frequency extrapolation algorithm for diffraction corrected ultrasound tomography
[AD-A136455] 09 p1375 N84-18982
STENGER, G. J.
Development of an impact resistant test method for polycarbonate
[AD-A139082] 13 p2002 N84-22988
Bird impact evaluation of the F/RF-4 transparency system
[AD-P003218] 17 p2595 N84-26631
STENHOLM, L. G.
The fluctuation spectrum of molecular clouds 09 p1408 N84-19201
STENSBY, J.
Computer control of a seven degree of freedom manipulator arm 06 p0931 N84-16051
STENSSON, G.
FOA-SUB underwater vehicle system: A brief description of the system and its state, Spring 1984
[FOA-C-20536-E1(E3)] 19 p3003 N84-29030
STENTZ, A. J.
Dynamically stable legged locomotion
[AD-A136644] 09 p1363 N84-18905
STEPANEK, S. A.
Aerothermal wind tunnel test of the space shuttle OMS (Orbital Maneuvering System) pod AFRSI (Advanced Flexible Reusable Surface Insulation) material
[AD-A140292] 16 p2457 N84-25754
STEPANOV, G. S.
Relationship between cardiovascular system response and adrenocortical glucocorticoid function on exposure to diffuse, low-intensity helium-neon laser emission 17 p2741 N84-27405
STEPANOV, V. S.
Change in immunobiological reactivity under the effect of combined exposure to microwaves, infrasound and gamma radiation 07 p1043 N84-16764
STEPANOV, V. V.
Focusers of obliquely incident laser radiation 21 p3487 N84-32099
STEPANOVA, L. P.
Results of psychophysiological study of Videoton terminal operators 21 p3454 N84-31919
STEPANYANTS, V. A.
Construction of a model of the Venus surface and its use in processing radar observations
[NASA-TM-77298] 09 p1416 N84-19264
STEPANYCHEV, Y. I.
Deformability and bearing strength of shells made on release mandrel 23 p3707 N84-33498
STEPHAN, K. D.
A study of microwave and millimeter-wave quasi-optical planar mixers
[AD-A135252] 08 p1144 N84-17443
STEPHANAKIS, S. J.
Status of light ion inertial fusion research at NRL (Naval Research Laboratory)
[AD-A135951] 09 p1392 N84-19087
STEPHANI, D.
Experimental and theoretical studies of electron beam lithography for the fabrication of semiconductor circuits with submicron dimensions: Water distortion, comparison of results
[BMFT-FB-T-83-088] 02 p0216 N84-11414
STEPHEN, J. H.
Effects of space radiation on advanced semiconductor devices. Part 1: A review of current theories and practice in cosmic ray simulation
[G-2532-VOL-1] 08 p1153 N84-17505
Effects of space radiation on advanced semiconductor devices. Part 2: Cosmic ray simulation experiments for the study of single event upsets in CMOS technology
[G-2745-VOL-2] 08 p1153 N84-17506

STEPHEN, R. A.
FINDIF: A software package to create synthetic seismograms by finite differences
[AD-A138904] 14 p2183 N84-24081

STEPHENS, B. R.
Multimode radar signal processor integration facility
[AD-A130655] 01 p0065 N84-10424

STEPHENS, C. A.
Geothermal Elastomeric Materials Technology Transfer (GEM-TT) Program
[DE83-013118] 01 p0050 N84-10325

STEPHENS, C. O.
Advanced composite vertical stabilizer for DC-10 transport aircraft
[NASA-CR-173985] 24 p3878 N84-34573

STEPHENS, C. W.
Data base generation: Improving the state-of-the-art
[AD-P003470] 21 p3512 N84-32245

STEPHENS, D. G.
Ride quality meter
[NASA-CASE-LAR-12882-1] 03 p0375 N84-12445

STEPHENS, D. H.
Sensitivity of a lidar inversion algorithm to parameters relating atmospheric backscatter and extinction
[AD-A141565] 19 p3054 N84-29378

STEPHENS, E.
A possible source for the Martian circumpolar dune material 13 p2082 N84-23490

STEPHENS, G. C.
Prochloron expedition 10 p1545 N84-20124

STEPHENS, J.
Properties of simulated comet mantle 13 p2076 N84-23452

STEPHENS, J. B.
Understanding the roles of the strategic element cobalt in nickel base superalloys 23 p3703 N84-33471

STEPHENS, J. R.
Replacing critical and strategic refractory metal elements in nickel-base superalloys
[NASA-TM-83528] 04 p0498 N84-13264
Oxidation and corrosion resistance of candidate Stirling engine heater-head-tube alloys
[NASA-TM-83609] 19 p2992 N84-28962
Advanced high temperature materials for the energy efficient automotive Stirling engine
[NASA-TM-83659] 19 p2992 N84-28963

STEPHENS, M.
Approximations for expected values of normal order statistics with an application to goodness-of-fit
[AD-A139970] 15 p2400 N84-25401

STEPHENS, M. A.
Further examination of simulated percentage points
[AD-A130338] 01 p0136 N84-10893
Tests for exponentiality when origin and scale parameters are unknown
[AD-A131377] 02 p0284 N84-11864

STEPHENS, R. R.
Development of new electro-optic and acousto-optic materials
[AD-A139946] 15 p2408 N84-25453

STEPHENSON, G. D.
A description of the NORDA satellite remote sensing hardware/software for prospective users
[AD-A130779] 01 p0067 N84-10438

STEPHENSON, J. B.
Chemical vapor deposition of group IVB, VB, and VIB elements with nonmetals. A literature review
[PB83-225409] 06 p0802 N84-15228

STEPHENSON, J. C.
Free radical detection and dynamics in propellant ignition and combustion systems
[AD-A142180] 19 p3002 N84-29023

STEPHENSON, M. S.
Relationship of characteristics of the research methods used in two subfields of geology and the growth of published research in those subfields 02 p0245 N84-11606

STEPHENSON, W.
Advice for windpower users 23 p3786 N84-34010

STEPIEN, J. C.
Canyon and slope processes study. Volume 2: Physical processes
[PB84-169499] 17 p2738 N84-27392
Canyon and slope processes study. Volume 3: Biological processes
[PB84-169507] 17 p2738 N84-27393

STEPKA, F. S.
Review and status of heat-transfer technology for internal passages of air-cooled turbine blades
[NASA-TP-2232] 12 p1814 N84-21828

STEPURO, A. V.
Effect of ion treatment of substrates on initial stage of buildup of metal films 21 p3378 N84-31439

STERCKEN, K.
Measures for the improvement of the continuous casting procedure (electromagnetic stirring)
[BMFT-FB-T-83-138] 02 p0207 N84-11348

STERLING, B.
Relationship between crewmember characteristics and tank crew performance
[AD-P003355] 18 p2912 N84-28471

STERMAN, A. P.
Tip cap for a rotor blade
[NASA-CASE-LEW-13654-1] 13 p1931 N84-22560
Air modulation apparatus
[NASA-CASE-LEW-13524-1] 23 p3694 N84-33410

STERMAN, M. B.
Measurement and modification of sensorimotor system function during visual-motor performance
[AD-A142919] 21 p3461 N84-31947

STERMER, R. L.
Optical Information Processing for Aerospace Applications 2
[NASA-CP-2302] 12 p1904 N84-22402
Systolic triple-matrix product calculations 12 p1906 N84-22419

STERN, D. P.
Energetics of the magnetosphere, revised
[NASA-TM-86063] 13 p2010 N84-23041

STERN, J. A.
A psychophysiological mapping of cognitive processes
[AD-A144557] 24 p3937 N84-34922

STERN, K. H.
Electrochemical applications of stabilized zirconia 11 p1740 N84-21353

STERN, M. R.
Superfluid hydrodynamics of inhomogeneous states: Systems with broken gauge-translation-symmetry
[JUEL-1858] 10 p1495 N84-19773

STERN, P.
Energy use: The human dimension
[DE84-001405] 05 p0714 N84-14676

STERN, R. A.
Precision cutting of millimeter wave ferrite materials
[AD-D011179] 24 p3891 N84-34639

STERN, S. A.
Investigation of structure-permeability relationships of silicone polymer membranes
[PB84-160977] 14 p2130 N84-23771

STERN, T. G.
Photovoltaic concentrator pointing dynamics and plasma interaction study 08 p1111 N84-17224

STERNBERG, R. L.
Frequency independent acoustic antenna
[AD-D011194] 24 p3963 N84-35093

STERNFELD, H.
Role of empirical methods 19 p3097 N84-29670

STERRETT, V. J.
Forest area and timber resource statistcs for state and private lands in New Mexico, 1980, Forest Service resource bulletin
[PB83-251157] 04 p0556 N84-13667

STETTER, J. R.
Portable device for detecting and identifying hazardous vapors
[DE84-003640] 14 p2148 N84-23870

STETTER, W.
Amorphous silicon solar cells
[BMFT-FB-T-83-112] 02 p0243 N84-11590

STEUERWALT, M.
Block iterative methods for elliptic finite element equations
[AD-A129150] 01 p0129 N84-10841

STEUNENBERG, R. K.
Lithium/iron sulfide batteries for electric-vehicle propulsion and other applications
[DE84-004193] 09 p1310 N84-18565

STEVEN, A.
Infrared characteristics of gas plumes
[AD-A131796] 03 p0349 N84-12269

STEVENS, A. P.
Quick Deployment Vehicle (QDV)
[AD-D011060] 22 p3563 N84-32563

STEVENS, C. G.
Electrolytic gettering of tritius from air
[DE84-000174] 04 p0496 N84-13252
Pure rotational spectroscopy of SO2 using fix line far-infrared lasers
[DE84-001427] 07 p0972 N84-16301

STEVENS, D. E.
Atmospheric planetary-wave response to external forcing
[NASA-CR-175165] 08 p1186 N84-17726

STEVENS, G. L.
A high-performance hybrid RF isolation amplifier 22 p3572 N84-32623

STEVENS, H.
Design of the near shore seawater systems for an OTEC expanded test facility
[DE84-004043] 11 p1674 N84-20928

STEVENS, J.
Microbial evaluation of some adhesive formulations and adhesive bases
[AD-A141659] 19 p2999 N84-29005

STEVENS, J. L.
Surface wave path corrections, deterministic discrimination and body wave attenuation
[AD-A133574] 06 p0878 N84-15714

STEVENS, K.
Study of the mapping of Navier-Stokes algorithms onto multiple-instruction/multiple-data-stream computers
[NASA-TM-85945] 19 p3080 N84-29544

STEVENS, K. B.
An analysis of pC-3 micropulsion in the geomagnetic field
[AD-A132443] 04 p0563 N84-13709

STEVENS, K. E.
Quaternary naltrexone reverses radiogenic and morphine-induced locomotor hyperactivity
[AD-P003252] 18 p2905 N84-28419

STEVENS, K. I.
The tribology of gears for satellite applications 09 p1296 N84-18470

STEVENS, K. N.
Interactive voice technology: Variations in the vocal utterances of speakers performing a stress-inducing task
[AD-A135932] 09 p1302 N84-18514
Multisensor speech input
[AD-A140894] 17 p2654 N84-26974
Speech communication 22 p3684 N84-33358

STEVENS, K. T.
Some observations on the performance of Fomblin Z25 oil and Braycote 3L-38RP grease in ball bearings and gear boxes 09 p1296 N84-18467

STEVENS, M. P. J.
Job handling in a network of distributed processors
[EUT-82-E-131] 10 p1566 N84-20262

STEVENS, N. J.
Charged particle effects on space systems
[AD-P002103] 16 p2522 N84-26189
High voltage solar array models and Shuttle tile charging
[AD-P002123] 16 p2525 N84-26209
Design guidelines for assessing and controlling spacecraft charging effects
[NASA-TP-2361] 23 p3700 N84-33452

STEVENS, R.
Implementation of large antennas for deep space mission support 10 p1475 N84-19636
TDA assessment of recommendations for space data system standards 16 p2479 N84-25898
Availability of the DSN telemetry data system and its major elements, including the TWM assemblies 22 p3575 N84-32639
A study of DSN traveling wave maser system reliability 22 p3575 N84-32640

STEVENS, S.
Hybrid space heating/cooling system with Trombe wall, underground venting, and assisted heat pump
[DE84-000406] 04 p0559 N84-13686

STEVENS, S. C.
AVRADCOM research helicopter vibration 10 p1507 N84-19867

STEVENS, W. J.
Application of quantum chemistry to atmospheric chemistry
[AD-A133836] 05 p0648 N84-14261

STEVENSON, D. A.
Control of impurities in the epitaxial growth of high quality GaAs
[AD-A133187] 06 p0922 N84-15996

STEVENSON, J.
Frequency encoded auditory display of the critical tracking task
[NASA-TM-85869] 13 p1931 N84-22558

STEVENSON, L. E.
Thunderstorm impact on Denver air traffic control operations and the role of NEXRAD (Next Generation Weather Radar)
[PB84-189729] 22 p3534 N84-32374
Experimental investigation of certain beam transport issues in a pulsed transmission line linear accelerator
[DE84-011191] 22 p3654 N84-33164

STEVENSON, M. P.
Computer implementation of a globally averaged model of the world carbon cycle
[DOE/NBB-0062] 23 p3793 N84-34055

STEVENSON, M. R.
Seasonal oscillations of the subtropical convergence between the Brazil and Malvinas currents, using oceanographic and SMS-2 satellite data
[INPE-3092-PRE/497] 16 p2532 N84-26255

Aspects of the Brazil current system according to SMS-2, NOAA-6, and Tiros-N satellites for 1979 to 1980
[INPE-2975-RPE/450] 22 p3627 N84-32982
Contouring program for generation of sea surface temperature maps
[INPE-3260-RPE/464] 24 p3935 N84-34906

STEVENSON, S. M.
A comparison of the domestic satellite communications forecast to the year 2000
[NASA-TM-83516] 01 p0062 N84-10405
Rural land mobile radio market assessment and satellite and terrestrial system concepts
[NASA-TM-83591] 10 p1476 N84-19641

STEVENSON, W. H.
Laser velocimeter measurements and analysis in turbulent flows with combustion, part 2
[AD-A131882] 03 p0372 N84-12421
Turbulence characteristics of an axisymmetric reacting flow 11 p1611 N84-20548

STEVENSON, W. T. K.
Characterization of Acetylene Terminated Sulfone (ATS-G)
[AD-A141348] 18 p2819 N84-27897

STEVER, R. D.
Microwave interferometer using 94-GHz solid-state sources
[DE84-003741] 09 p1392 N84-19090

STEWARD, R. G.
Optical means of measuring particle-sea interactions in the Caribbean Sea and Gulf of Mexico
[AD-A131290] 02 p0257 N84-11685
Evaluation of Stokes settling equation for variable density aggregates
[AD-A140878] 17 p2721 N84-27322

STEWARD, R. W.
The demand side flux determination, appendix P 18 p2886 N84-28311

STEWARD, S. A.
Reduction of tritium permeation through iron using aluminum-ion implantation
[DE84-000184] 04 p0500 N84-13279
Review of hydrogen isotope permeability through materials
[DE84-007362] 12 p1794 N84-21696

STEWART, D.
Field emission electric propulsion: Additional propellants: Further tests on indium and alloys
[R664] 06 p0796 N84-15186

STEWART, D. A.
Catalytic surface effects on space thermal protection system during Earth entry of flights STS-2 through STS-5 01 p0024 N84-10152
Wind speed, stability category, and atmospheric turbulence at selected locations
[AD-A132947] 05 p0709 N84-14645

STEWART, D. S.
An inventory of state natural resources information systems
[E84-10072] 07 p1020 N84-16619
Near Chapman-Jouget detonations
[AD-P002974] 14 p2201 N84-24210

STEWART, F. G.
Air-to-ground HF (High Frequency) propagation prediction model for fast multicircuit computation
[PB84-145961] 12 p1810 N84-21802
Global maps of foF2 derived from observations and theoretical values
[PB84-163906] 15 p2369 N84-25215

STEWART, G. W.
Development of realistic algorithms for matrix computations on parallel computers
[AD-A136570] 09 p1376 N84-18990
Automatic holographic droplet analysis for liquid fuel sprays 11 p1609 N84-20531

STEWART, H. B.
A two-fluid instability
[DE84-012899] 22 p3595 N84-32764

STEWART, H. D.
ESD evaluation of radiation-hardened, high-reliability CMOS and MNOS ICs
[DE84-000138] 04 p0529 N84-13481

STEWART, J. F.
Project management techniques for highly integrated programs
[NASA-TM-86023] 05 p0757 N84-14965
Flight test experience with pilot-induced-oscillation suppression filters
[NASA-TM-86028] 07 p0958 N84-16213

STEWART, K. H.
Second-generation Meteosat: System study, executive summary
[ESA-SP-1063] 15 p2371 N84-25224

STEWART, L. M.
Strain release along ocean transform faults 24 p3918 N84-34804

STEWART, M. T.
Evaluation of a ground transient electromagnetic remote sensing method for the deep detection and monitoring of salt water interfaces
[PB83-253351] 05 p0698 N84-14580

STEWART, R. W.
CW (Continuous Wave) antenna design and testing
[AD-A131291] 02 p0210 N84-11369

STEWART, T. J.
Interactive decision analysis and modelling
[CSIR-TWISK-294] 15 p2400 N84-25403

STEWART, W. F.
Refueling considerations for liquid-hydrogen fueled vehicles
[DE84-012623] 22 p3562 N84-32557

STEWARTSON, K.
Unsteady boundary layers on thin bodies of revolution
[AD-A136257] 09 p1313 N84-18583

STEYERT, W. A.
Cascade Joule-Thomson refrigerators 06 p0821 N84-15354
Solid state compressor
[AD-A140498] 16 p2499 N84-26032
Solid state compressor
[AD-A142605] 20 p3196 N84-30300

STEYN-ROSS, M. L.
Quantum theory of optical excitonic bistability 14 p2237 N84-24427

STEYSKAL, H.
Computer model for a circular symmetric cavity with application for lens antennas
[FOA-C-30332-E] 02 p0211 N84-11380
Microwave tubes: Literature survey number 4, comprising the year 1982
[FOA-C-30331-E] 06 p0831 N84-15407

STIASSNIE, M.
On modifications of the Zakharov equation for surface gravity waves
[AD-A135050] 08 p1217 N84-17943
Evolution of nonlinear wave groups on water of slowly-varying depth
[AD-A141260] 18 p2837 N84-28008

STICKEL, M. E.
Research on interactive acquisition and use of knowledge
[AD-A131306] 02 p0278 N84-11823
Research on interactive acquisition and use of knowledge
[AD-A137436] 10 p1568 N84-20270

STICKER, H.
Calculation of molecular final states and their effect on a precision neutrino mass experiment
[DE84-011071] 20 p3295 N84-30921

STICKFORD, G. H., JR.
Technical and economic feasibility of horizontal, multiple shallow-well, and deep-well ground coupling for residential heat pump applications
[DE84-006244] 12 p1817 N84-21842

STICKLES, R. P.
New applications for phosphoric acid fuel cells
[NASA-CR-168203] 09 p1341 N84-18757

STIEB, A.
Investigation of electro-optical effects in liquid crystals for high information density over a wide temperature range
[BMFT-FB-T-84-120] 23 p3831 N84-34304

STIEF, L. J.
The reaction NH2 + PH3 yields NH3 + PH2: Absolute rate constant measurement and implication for NH3 and PH3 photochemistry in the atmosphere of Jupiter
[NASA-TM-85063] 13 p2072 N84-23430

STIEFEL, S. W.
Decision analysis model for passenger-aircraft fire safety with application to fire-blocking of seats
[AD-A142477] 20 p3127 N84-29859

STIEGLER, J. O.
Ductile aluminide alloys for high temperature applications
[DE84-014317] 23 p3719 N84-33575

STIENING, R. F.
Acceleration of high charge density electron beams in the SLAC linac
[DE84-012415] 21 p3497 N84-32161

STIER, M. T.
Submillimeter wavelength survey of the galactic plane from l = -5 deg to l = +62 deg: Structure and energetics of the inner disk
[NASA-TM-86077] 20 p3319 N84-31069

STIES, M.
Coincident extraction of line objects from stereo image pairs
[AD-A133892] 05 p0697 N84-14576

STIGLICH, J. J., JR.
Fabrication and coating of selected diesel engine components for combustion durability testing
[DE84-002188] 09 p1326 N84-18662

STIKA, K. M.
Characterization of grain boundaries in silicon
[NASA-CR-173459] 12 p1912 N84-22460

STILES, J. A.
Performance and safety characteristics of lithium-molybdenum disulfide cells 23 p3736 N84-33672

STILES, P.
Microwave nondestructive evaluation of composites
[DE84-001777] 04 p0547 N84-13601

STILES, W. H.
Microwave remote sensing of snow experiment description and preliminary results
[E84-10009] 02 p0236 N84-11547

STILLER, P. H.
Wind turbine generator interaction with conventional diesel generators on Block Island, Rhode Island. Volume 1: Executive summary
[NASA-CR-168318] 19 p3050 N84-29357
Wind turbine generator interaction with conventional diesel generators on Block Island, Rhode Island. Volume 2: Data analysis
[NASA-CR-168319] 21 p3433 N84-31783

STILLMAN, D. W.
Precision support of annular optics
[DE83-017473] 04 p0605 N84-13993
Introduction to GEMINI
[DE84-005058] 10 p1564 N84-20248

STILLMAN, G. E.
Impurity and defect interactions in GaAs
[AD-A139582] 14 p2243 N84-24465

STILLMAN, R. J.
The reduction of life-cycle costs through continuing acrylic maintenance
[AD-P003224] 17 p2596 N84-26637

STILLWELL, R. P.
Current collection from the space plasma through defects in high voltage solar array insulation 06 p0919 N84-15970

STILWELL, G. H.
Information needs and system specifications for the B-1B executive information system
[AD-A134424] 07 p1085 N84-17054

STIMLER, F. J.
System definition study of deployable, non-metallic space structures
[NASA-CR-171090] 19 p2980 N84-28887

STIMSON, E. B.
Comparison of bullet resistance of new and aged polycarbonate
[AD-P003198] 17 p2592 N84-26811

STINCHCOMB, W. W.
Fatigue damage-strength relationships in composite laminates. Volume 1
[AD-A133485] 06 p0799 N84-15206
Fatigue damage - strength relationships in composite laminates, volume 2
[AD-A139241] 14 p2120 N84-23704

STINE, W. B.
Survey of manufacturers of high-performance heat engines adaptable to solar applications
[NASA-CR-173911] 22 p3617 N84-32919

STINEBRING, D. R.
An investigation of cavity cycling for ventilated and natural cavities
[AD-A130641] 01 p0078 N84-10511
A study of pump cavitation damage
[NASA-CR-170992] 11 p1652 N84-20783

STINEBRING, R. C.
Characterization of open circuit voltage and capacity as a function of time 23 p3736 N84-33673

STINTON, D. P.
Ceramic coatings for heat engine materials: Status and future needs
[DE84-003401] 10 p1488 N84-19590

STIPANUK, J. G.
Alternative voice switching and control system display panel format simulation and evaluation
[NASA-CR-173644] 17 p2654 N84-26973

STIPP, V.
Brighter H(-) source for the intense pulsed neutron source accelerator system
[DE84-003608] 07 p1072 N84-16965
Performance of the intense pulsed neutron source accelerator system
[DE84-003607] 07 p1072 N84-16966

STIRGUS, M.
Hydrographic measurements in the western Arlboran Sea, October 1982
[AD-A143588] 22 p3627 N84-32985

STIRLING, W.
Fast algorithms for improved speech coding and recognition
[AD-A137569] 11 p1643 N84-20740

STIRLING, W. L.
Normalized emittance of SITEX negative ion source
[DE84-003285] 07 p1072 N84-16967
STITH, J. J.
A simple model of space radiation damage in GaAs solar cells
[NASA-TP-2242] 04 p0603 N84-13978
STITT, S. C.
Synthetic voice: Power system enunciation speech synthesis system
[PB84-151646] 14 p2141 N84-23838
STIXRUD, T. E.
Short term measurements of omnidirectional ambient noise in the southwest Atlantic during January 1981
[AD-A137666] 11 p1692 N84-21033
STJAZHKIN, V. A.
The magnetic field experiment for the Venus-Halley (VEGA) mission
[IWF-8301] 17 p2777 N84-27633
STJOHN, R. H.
The role of the Shuttle Engineering Simulator in the Solar Max rescue mission 24 p3864 N84-34489
STLUKA, E. F.
Marshall Amateur Club experiment (MARCE)
18 p2800 N84-27767
STOAKLEY, D. M.
Cobalt ion-containing epoxies
[NASA-TM-85715] 04 p0505 N84-13309
Process for improving moisture resistance of epoxy resins by addition of chromium ions
[NASA-CASE-LAR-13226-1] 11 p1636 N84-20700
An investigation of chemically-induced improvement in saturation moisture characteristics of epoxies
[NASA-TM-85826] 18 p2809 N84-27834
Process for improving mechanical properties of epoxy resins by addition of cobalt ions
[NASA-CASE-LAR-13230-1] 24 p3878 N84-34571
STOBIE, I. C.
Combustion thermodynamics of some boron-nitrogen-hydrogen compounds
13 p1951 N84-22684
STOBIE, J. G.
A case study of gravity wave-convective storm interactions 03 p0406 N84-12659
STOBIE, R. S.
Why use a microdensitometer other than a PDS?
18 p2841 N84-28038
STOCK, H. W.
Turbulent diffuser flow studies related to the design of the ETW diffuser 14 p2095 N84-23572
STOCK, L. V.
A simple model of space radiation damage in GaAs solar cells
[NASA-TP-2242] 04 p0603 N84-13978
Equivalent electron fluence for solar proton damage in GaAs shallow junction cells 19 p3046 N84-29324
STOCK, M.
Identification of problem areas
06 p0836 N84-15440
Practical approaches in accident analysis
06 p0836 N84-15441
STOCK, P.
The synthesized climatic function map
03 p0400 N84-12617
STOCK, S. R.
X-ray topographic measurements of strain fields
[AD-A136310] 09 p1394 N84-19103
Topographic EXAFS
[AD-A137116] 12 p1915 N84-22475
STOCKBAUER, R.
Electron emission and ion desorption spectroscopy of clean and oxidized Ti(0001)
[AD-A141319] 18 p2930 N84-28579
STOCKER, J.
Software testing of safety critical systems
06 p0774 N84-15073
CSTS: The software test system for the TORNADO auto pilot
[MBB-FE-325/S/PUB/118] 16 p2562 N84-26436
STOCKING, A.
Productivity and the forging industry
09 p1293 N84-18448
STOCKMAN, H. S.
Innovative research in the design and operation of large telescopes for space: Aspects of giant telescopes in space 17 p2765 N84-27560
STOCKS, C. D.
Apparatus for measuring charged particle beam
[NASA-CASE-MFS-25641-1] 18 p2929 N84-28575
STOCKTON, R. J.
Fundamental design issues for monolithic phased arrays
[AD-P003402] 19 p3014 N84-29106
Monolithic integrated antenna systems
[AD-A143184] 22 p3586 N84-32708
STOCKWELL, C. W.
Vestibulo-ocular reflex gain in man during active versus passive oscillation and the influence of voluntary gaze-control tasks
[AD-A132006] 03 p0415 N84-12717
STOCKWELL, R. D.
Measurements of elastohydrodynamic film thickness, wear and tempering behavior of high pressure oxygen turbopump bearings
[NASA-CR-171008] 13 p1997 N84-22960
STOCKWELL, W. R.
Mechanism and rates of the gas phase oxidations of sulfur dioxide and the nitrogen oxides in the atmosphere
[PB83-231324] 01 p0106 N84-10691
STODDARD, M.
Learning about supercomputers on a microcomputer with no keyboard: A science museum exhibit
[DE84-001177] 19 p3073 N84-29496
STODDARD, M. L.
Modeling the user in intelligent user interfaces
[DE84-012664] 05 p0730 N84-14795
STODDART, J. H., JR.
Biorefining of selected industrial wastes to liquid fuels and organic chemicals
[DE83-013910] 01 p0054 N84-10346
STODDART, T. L.
The use of fuel additives to control plume opacity of turbine engine test cells
[AD-A130777] 01 p0053 N84-10339
STODT, J. A.
Bias removal for conventional magnetotelluric data
[DE84-012189] 20 p3241 N84-30579
STOECKL, G.
Simulation of the reaction of optical systems in the manufacturing process
[BMFT-FB-T-84-128] 23 p3728 N84-33622
STOEFFLER, R. C.
Energy efficient engine high-pressure turbine supersonic cascade technology report
[NASA-CR-165567] 18 p2796 N84-27739
STOEGER, R.
Results of permanent Doppler measurements at the satellite observation station Wettzell
08 p1174 N84-17646
STOEHR, R. A.
Simulation of heat transfer and fluid flow in the solidification of alloys 15 p2306 N84-24836
STOFAN, A. J.
A high energy stage for the National Space Transporation System
[NASA-TM-83795] 22 p3540 N84-32411
STOFFER, G. R.
Figural aftereffects: An explanation in terms of multiple mechanisms in the human visual system
[AD-A132066] 03 p0415 N84-12715
STOFFERS, G.
Wake vortices and their aerodynamic alleviation: A review of the literature
[DFVLR-MITT-83-07] 07 p0948 N84-16154
STOIBER, R. E.
Investigation of forestry resources and other remote sensing data. 1: LANDSAT. 2: Remote sensing of volcanic emissions
[E84-10092] 10 p1522 N84-19963
STOKER, C. R.
Vertical structure and convective dynamics of the equatorial region on Jupiter 11 p1758 N84-21473
STOKER, G. C.
Sizing defects using annular-array techniques with an automated ultrasonic data-acquisition system
[DE84-001644] 04 p0546 N84-13597
STOKER, P. H.
Modulation of cosmic rays with particular reference to the Hermanus neutron monitor
09 p1344 N84-18780
STOKES, C. W., III
Aircrew Automated Escape Systems (AAES) In-service Usage Data Analyses, volume 1
[AD-A134833] 08 p1100 N84-17154
Aircrew Automated Escape Systems (AAES) In-service Usage Data Analyses, volume 2
[AD-A134834] 08 p1100 N84-17155
STOKES, G. M.
Historical carbon dioxide: Abundances derived from the Smithsonian spectrobolograms
[DOE/NBB-0063] 23 p3793 N84-34056
STOKES, J. L.
Magnetic properties of iron and low-carbon steel for soft magnet application
[AD-A134120] 05 p0653 N84-14292
Investigation of acoustic emission during fracture toughness testing of chevron-notched specimens
[AD-A141315] 18 p2814 N84-27865
STOKES, R. F.
Reference systems for the evaluation of dead-reckoning navigation equipment 24 p3848 N84-34406
STOKHOLM, M.
The DC electric field in space: Direct measurements and inferences from cold plasma drifts
08 p1117 N84-17264
Low energy (130 eV) oxygen ions at the geosynchronous orbit during the CDAW-6 event of March 22, 1979
[IFSI-83-17] 18 p2881 N84-28291
STOKOE, K. H., II
Effects of rigid inclusions on wave propagation
[AD-A131366] 02 p0209 N84-11366
STOKOWSKI, S.
Characterization by X-ray topography of laser-induced damage in potassium dihydrogen phosphate crystals
[DE83-012045] 03 p0454 N84-12985
STOLA, L.
Computerized simulation of multipath fading for mobile radio systems 10 p1477 N84-19647
STOLFI, F.
A magnetically suspended linearly driven cryogenic refrigerator 06 p0820 N84-15345
STOLL, A.
A nonstandard construction of Levy Brownian motion
[REPT-82] 20 p3285 N84-30861
STOLL, M.
A microprocessor-based control system for the Vienna PDS microdensitometer 18 p2841 N84-28037
STOLLER, F. W.
Intermodulation product levels in flame-sprayed materials 22 p3573 N84-32629
STOLOFF, N. S.
Fatigue crack growth and low cycle fatigue of two nickel base superalloys
[NASA-CR-174534] 01 p0042 N84-10267
Fatigue of niobium at elevated temperatures
[DE84-001373] 05 p0656 N84-14314
Creep-fatigue interactions in advanced eutectic superalloys
[AD-A142872] 21 p3422 N84-31705
STOLTE, W. J.
Photovoltaic system grounding and fault protection
22 p3584 N84-32696
STOLYAROV, S. I.
Measurement of thickness of SiO/sub 2 insulation layers in silicon structures with dielectric insulation
18 p2824 N84-27929
STOLYAROV, S. N.
Reflection of electromagnetic waves from inhomogeneous media 22 p3586 N84-32586
STOLYAROV, V. I.
Bonding materials by gas-phase precipitation
23 p3709 N84-33512
STOLZ, A.
Results of the Australian geodetic VLBI experiment
04 p0520 N84-13416
STOLZ, J. W.
Simulated precipitation reference materials, 4
[PB83-139378] 06 p0883 N84-15742
STOLZKE, U.
Investigation of interactions between helmet-mounted sight/display, sensor platform and human pilot
[ESA-TT-746] 16 p2539 N84-26299
STOMMEL, H. M.
Hydrographic station data of five surveys of the beta-triangle in the eastern North Atlantic, 1978 - 1981
[PB84-100874] 08 p1196 N84-17800
STONE, A.
SREM (Software Requirements Engineering Methodology) evaluation, volume 1
[AD-A141631] 19 p3077 N84-29525
SREM (Software Requirements Engineering Methodology) evaluation. Volume 2: Specifications and technical data
[AD-A141632] 19 p3078 N84-29526
STONE, A. D.
Semiconductor surface studies
22 p3681 N84-33338
STONE, A. P.
An anisotropic lens for launching TEM waves on a conducting circular conical system
[AD-A144140] 24 p3893 N84-34656
Minigrant program. A differential geometric approach to electromagnetic lens design
[AD-A144239] 24 p3950 N84-35013
STONE, B. M.
Sleep and wakefulness handbook for flight medical officers
[AGARD-AG-270(FR)] 06 p0891 N84-15788
Adaptation to irregularity of rest and activity
11 p1697 N84-21070
STONE, D.
An adaptive CBT (Computer Based Training) courseware authoring system to meet the needs of military authors
[AD-P003460] 21 p3510 N84-32237
High power K sub a -band transmitter for planetary radar and spacecraft uplink 22 p3572 N84-32625

STONE, D. E. W.
In-service NDI of composite structures: An assessment of current requirements and capabilities
01 p0035 N84-10220
STONE, D. H.
A z-pinch photo-pumped pulsed atomic iodine laser
[AD-A140033] 15 p2410 N84-25468
STONE, E. C.
The Mimas ghost revisited: An analysis of the electron flux and electron microsignatures observed in the vicinity of Mimas at Saturn
[NASA-CR-174596] 03 p0464 N84-13056
Research in particles and fields
[NASA-CR-173928] 23 p3845 N84-34392
STONE, E. W.
High power K sub a -band transmitter for planetary radar and spacecraft uplink 22 p3572 N84-32625
STONE, H. M.
RANP: Stability Analysis Plot Program
[PB84-161447] 14 p2181 N84-24071
STONE, H. W.
Effect of aerodynamic and angle-of-attack uncertainties on the blended entry flight control system of the Space Shuttle from Mach 10 to 2.5
[NASA-TP-2283] 14 p2110 N84-23652
STONE, J. R.
Acoustic excitation: A promising new means of controlling shear layers
[NASA-TM-83772] 21 p3325 N84-31096
Supersonic jet shock noise reduction
[NASA-TM-83799] 24 p3961 N84-35085
STONE, J. S.
Aerodynamic analysis of the loft anomaly observed on orbital flight tests of the space shuttle
01 p0019 N84-10120
Space shuttle orbiter reaction control subsystem flight data anomalies 01 p0021 N84-10131
STONE, L. W.
Effects of extended use of AN/PVS-5 night vision goggles on helicopter pilots' performance
[AD-A138126] 12 p1868 N84-22173
STONE, M. A.
Bearing tester data compilation, analysis and reporting and bearing math modeling, volume 1
[NASA-CR-171039] 15 p2340 N84-25046
STONE, N.
Interaction of the space shuttle orbiter with the ionospheric plasma 08 p1117 N84-17265
STONE, R.
Optimized baffle and aperture placement in neutral beamlines
[DE84-003746] 09 p1388 N84-19062
STONE, R. G.
Radio evidence for interplanetary streamers in the range 10-170 solar radii 03 p0471 N84-13103
The ISPM unified radio and plasma wave experiment
09 p1262 N84-18237
Fundamental and harmonic emission in interplanetary type 2 radio bursts
[NASA-TM-86099] 20 p3320 N84-31079
STONE, R. H.
Flight service evaluation of Kevlar-49 epoxy composite panels in wide-bodies commercial transport aircraft
[NASA-CR-166065] 01 p0030 N84-10188
Flight service evaluation of advanced composite ailerons on the L-1011 transport aircraft
[NASA-CR-172246] 04 p0491 N84-13223
Flight service evaluation of Kevlar-49 epoxy composite panels in wide-bodied commercial transport aircraft
[NASA-CR-172344] 21 p3356 N84-31287
STONE, T. A.
Deforestation measured by LANDSAT: Steps toward a method
[DE83-016645] 04 p0554 N84-13652
Test of the use of LANDSAT imagery to detect changes in the area of forest in the tropics
[DE84-004444] 08 p1179 N84-17680
STONE, V. C.
Design of relational database benchmarks
[AD-A133651] 05 p0719 N84-14710
STONE, W. J.
Front lighted optical tooling method and apparatus
[DE84-011108] 21 p3406 N84-31602
STOOPS, J.
Whole building performance monitoring: Measurements on baseline buildings 16 p2515 N84-26145
STOOPS, W. E., JR.
Structural pressure sensitive silicone adhesives
[NASA-CASE-LAR-13270-1] 22 p3558 N84-32532
STORACE, A.
Blade loss transient dynamics analysis with flexible bladed disk
[NASA-CR-168176] 04 p0486 N84-13193
STOREY, J. W. V.
Far-IR spectroscopy of the galactic center: Neutral and ionized gas in the central 10 pc of the galaxy
[NASA-CR-166510] 13 p2070 N84-23411
STOREY, L. R. O.
Results from wave injection experiments on the Porcupine rocket 05 p0635 N84-14175
Project Porcupine: The MF mutual impedance probe experiment. Part 1: Flight F2 (March 1977)
[CRPE-NT-93-VOL-1] 05 p0705 N84-14624
Project Porcupine: The MF mutual impedance probe experiment. Part 2: Flights F3 and F4 (March 1979)
[CRPE-NT-94-VOL-2] 05 p0705 N84-14625
STOREY, R.
Video noise reduction
[BBC-RD-1984/7] 22 p3571 N84-32615
STORINI, M.
Interplanetary perturbations associated with type 4 solar flares
[IFSI-82-6] 03 p0475 N84-13129
The behavior of the cosmic ray equatorial anisotropy inside fast solar wind streams ejected by coronal holes
[IFSI-82-16] 03 p0475 N84-13130
STORM, D. W.
University of Washington superconducting-booster project
[DE83-015689] 03 p0434 N84-12846
STORM, W. F.
Aircrew fatigue during extended transport, tactical, and command post operations 11 p1698 N84-21075
STORP, S.
Physical and chemical investigations on real catalyst surfaces
[BMFT-FB-T-83-273] 13 p1958 N84-22729
STORRS, H. B.
Development of a thermal environment simulator for large test articles in a vacuum 24 p3861 N84-34469
STOTT, J. H.
Digital transmission: 68Mbit/s pal field trial system
[BBC-RD-1984/5] 21 p3381 N84-31455
STOTTLEMYRE, A. R.
A balloon-borne high-resolution spectrometer for observations of gamma-ray emission from solar flares
[NASA-TM-86069] 09 p1416 N84-19266
STOTZER, M. D.
A layered communication system for ethernet
[AD-A136799] 10 p1481 N84-19676
STOUGHTON, J. W.
Preliminary study of (2-D) digital filtering for dealiasing NOSS wind direction data
[NASA-CR-173147] 07 p1036 N84-16721
Investigation of design considerations for a complex demodulation filter
[NASA-CR-173295] 08 p1107 N84-17195
STOUGHTON, R. S.
Automatic camera tracking for remote manipulators
[DE84-011455] 21 p3407 N84-31608
STOUGIE, L.
A framework for the probabilistic analysis of hierarchial planning systems
[MC-BW-180/83] 13 p2037 N84-23216
STOUT, W.
A statistical procedure for assessing test dimensionality
[AD-A142179] 19 p3068 N84-29462
STOVER, C.
Predictions of entropies of molecules and liquids
[DE84-010504] 21 p3507 N84-32216
STOVER, C. W.
Earthquakes in the United States, January - March 1982
[USGS-CIRC-896-A] 11 p1677 N84-20945
Earthquakes in the United States, April - June 1982
[USGS-CIRC-896-B] 14 p2175 N84-24026
STOVER, G.
High gain free electron laser at ETA
[DE84-002001] 05 p0686 N84-14512
STOVER, H. A.
Engineering aids for the design of survivable defense communications transmission capability
[AD-A140755] 17 p2653 N84-26970
STOWE, L. L.
Using the NOAA-7 AVHRR data to monitor El Chichon aerosol evolution and subsequent sea surface temperatures anomalies 10 p1539 N84-20083
Nimbus-7 ERB (Earth Radiation Budget) Sub-Target Radiance Tape (STRT) data base
[PB84-149921] 14 p2177 N84-24039
STOWELL, D.
The aircraft infrared measurements guide
[AD-A132598] 05 p0747 N84-14905
STOWERS, I.
Development of high strength braze joints in beryllium
[DE84-007243] 13 p1998 N84-22964
STPAKOV, G. P.
Evaluation of changes in human axial skeletal bone structures during long-term spaceflights
15 p2375 N84-25251
STRACK, H.
Development of microcomputer compatible power switches
[BMFT-FB-T-83-277] 10 p1488 N84-19731
STRADMANN, A.
Deep drawing of continuously cast and rolled zinc sheet
[BMFT-FB-T-83-214] 10 p1472 N84-19614
STRAEMKE, S.
Nitriding with a pulsed glow discharge
[BLL-OA-TRANS-3168-(6169.3)]
08 p1128 N84-17335
STRAFELLA, F.
Measurement of atmospheric moisture and extinction coefficient in the near infrared at Cima Ekar
[IFSI-83-6] 05 p0762 N84-14999
STRAHLE, W. C.
Acoustic signature from flames as a combustion diagnostic tool
[AD-A136447] 09 p1278 N84-18347
Rocket motor aeroacoustics 13 p1944 N84-22642
Heterogeneous diffusion flame stabilization: Constant density results 13 p1952 N84-22689
STRAHLER, A. H.
Relating spatial patterns in image data to scene characteristics 03 p0394 N84-12573
Reflectance modeling 12 p1831 N84-21935
STRAHM, R. C.
Test and evaluation of radioactively contaminated transducers and transmitters
[AD-P002676] 11 p1657 N84-20613
STRAIGHT, G. E.
An open loop missile evasion algorithm for fighters
[AD-A136834] 10 p1428 N84-19339
STRAKHOV, V. N.
Uniqueness in plane inverse problems in gravimetry and magnetometry 17 p2705 N84-27226
Solution of direct three-dimensional problems in gravimetry and magnetometry with arbitrary continuous laws of density and magnetization distribution
18 p2861 N84-28169
STRAM, H.
Optics and quantum electronics
22 p3682 N84-33343
STRAND, L. D.
Non-steady combustion of composite solid propellants
[AD-A139182] 14 p2132 N84-23776
STRAND, T. C.
Nonlinear real-time optical signal processing
[AD-A142619] 20 p3300 N84-30956
STRANDBERG, R.
Geometrical transformation of binary images
[FOA-C-30342-E1] 15 p2397 N84-25380
STRANG, A.
Practical implications of the use of aluminide coatings for the corrosion protection of superalloys in gas turbines 23 p3703 N84-33476
STRANG, R. F.
Statistical correlation of structural mode shapes from test measurements and NASTRAN analytical values
[NASA-TM-86044] 16 p2501 N84-26054
Seismic analysis capability in NASTRAN
22 p3610 N84-32671
STRANG, W. Z.
Shock-free transonic airfoil design by a hodograph method
[AD-A142752] 21 p3325 N84-31098
STRANGE, C.
Instabilities in trailing vortices: Flow visualization using hot-wire anemometry 03 p0321 N84-12103
STRANGE, K. L.
The 1984 JANNAF Propulsion Meeting, volume 1
[AD-A142852] 20 p3135 N84-29906
The 1984 JANNAF Propulsion Meeting, volume 2
[AD-A143025] 20 p3140 N84-29939
Computational Methods: 1984 JPM Specialist Session
[AD-A142923] 21 p3354 N84-31276
STRANGE, R. R.
Advanced high temperature heat flux sensors
[NASA-TM-83526] 07 p1001 N84-16493
Turbine blade and vane heat flux sensor development, phase 1
[NASA-CR-168297] 22 p3598 N84-32790
STRANGE, W. E.
Subsidence monitoring for state of Arizona
[PB84-126960] 08 p1189 N84-17750
STRANGMAN, T. E.
Low-cost single-crystal turbine blades, volume 1
[NASA-CR-168218] 06 p0805 N84-15247

STRASILLA, U.
Application of surface acoustic wave devices to radio telemetry
[NASA-CR-173597] 16 p2457 N84-25756
STRASSNER, B.
The role of the Shuttle Engineering Simulator in the Solar Max rescue mission 24 p3864 N84-34489
STRATTON, A.
Methanol production from natural gas or coal
[DE83-901909] 01 p0053 N84-10340
STRATTON, J. R.
Dynamic compaction of ceramic materials
[AD-A137257] 11 p1638 N84-20708
STRATTON, R. C.
Automated reasoning in man-machine control systems
[DE83-014307] 03 p0424 N84-12774
STRAUB, E. C.
Standard avionics software: The future strategy for cost-effective avionics
[AD-P003582] 21 p3339 N84-31187
STRAUB, P.
Rigid closed-cell polyimide foams for aircraft applications and foam-in-place technology
[NASA-CR-171805] 22 p3559 N84-32535
STRAUCH, D.
Hygienic microbiological/virological examination of an airwasher concerning the emission of airborne microorganisms
[BMFT-FB-T-83-130] 02 p0265 N84-11742
STRAUCH, F. C.
RIM-AIR (Repairable Integrated Model for aviation) study
[AD-A131141] 02 p0169 N84-11113
STRAUCH, R. G.
Capabilities and limitations of existing MST radars: Colorado wind profilers 17 p2690 N84-27132
Data analysis techniques: Spectral processing 17 p2695 N84-27168
STRAUS, D. M.
The growth, propagation and decay of global scale Rossby waves during FGGE 12 p1854 N84-22080
The simulation of transient statistics of the Southern Hemispheric circulation by the GLAS seasonal cycle model: Preliminary results 12 p1855 N84-22082
Conservation laws of wave action and potential enstrophy for Rossby waves in a stratified atmosphere
[NASA-TM-86058] 21 p3442 N84-31838
STRAUSS, B.
D-19 evaluating the height of tropospheric conduction of evaporation 15 p2325 N84-24962
STRAUSS, F. M.
The 22 GHz continuum and spectral index maps of the galactic center region
[INPE-3275-PRE/599] 24 p3987 N84-35239
STRAUSS, K. H.
The relationship between vehicle fuel temperature and ambient temperature. 1981 CRC (Coordinating Research Council) Kapuskasing field test
[AD-A136948] 10 p1470 N84-19602
STRAW, J. B.
Effect of hydrogen on the mechanical properties of a U5.7Nb alloy
[DE84-006679] 12 p1799 N84-21732
STRAWN, R. C.
Aerodynamic heating computations for projectiles. Volume 2: Swept wing calculations using the planar version of the ABRES shape change code (PLNRASCC)
[AD-A143253] 22 p3532 N84-32360
STRAWSER, P. R.
A methodology for benchmarking relational database machines
[AD-A139104] 14 p2202 N84-24217
STRAYER, B. D.
A summary of whistlers observed by Voyager 1 at Jupiter
[NASA-CR-173415] 13 p2091 N84-23545
STRAZISAR, A. J.
Investigation of flow phenomena in a transonic fan rotor using laser anemometry
[NASA-TM-83555] 08 p1098 N84-17143
STREBE, J.
Effect of antimony on lead-acid battery negative electrode
[DE83-014680] 03 p0369 N84-12404
STREBY, G. D.
Multi-ducted inlet combustor research and development
[AD-A135906] 09 p1257 N84-18205
STRECKERT, H. H.
Polarization effects in the luminescence of cadmium selenide electrodes
[AD-A133951] 05 p0647 N84-14253
STREDULINSKY, E. W.
Weighted inequalities and degenerate elliptic partial differential equations
[AD-A142895] 21 p3472 N84-32007
STREET, H. K.
Enhanced low-temperature performance of a multicell LiSOC1sub2 battery
[DE84-011680] 21 p3394 N84-31537
STREET, K. N.
Computation of influence of defects on static and fatigue strength of composites 01 p0034 N84-10217
Moisture and temperature effects on the mixed-mode delamination fracture of unidirectional graphite/epoxy
[DREP-TM-83-22] 12 p1789 N84-21665
STREETER, C.
Environment for scientific laboratories
[DE83-013848] 12 p1919 N84-22504
STREETT, C. L.
Spectral methods for partial differential equations
[NASA-CR-172248] 02 p0280 N84-11832
Spectral methods for partial differential equations
[AD-P002980] 14 p2202 N84-24216
Viscous-inviscid interaction method including wake effects for three-dimensional wing-body configurations
[NASA-TP-1910] 18 p2786 N84-27682
STREETT, W. B.
Heat-of-mixing experiments for liquefied gases
[PB84-215094] 22 p3562 N84-32560
STREHLOW, H.
Aeroelastic design considerations in the development of helicopters 02 p0171 N84-11126
STREHLOW, R. A.
Flame acceleration mechanisms under conditions of partial confinement
[PB83-244012] 03 p0358 N84-12328
Research planning task group study-thermal destruction
[PB84-145119] 12 p1804 N84-21764
STREIBL, N.
Instabilities and chaos in TV-optical feedback 14 p2237 N84-24422
STREISSELBERGER, A.
An investigation into thermomechanical treatment by rolling of High Strength Low Alloy (HSLA) steels for improving their mechanical and technological properties
[BMFT-FB-T-83-083] 02 p0197 N84-11284
STRELKOV, S. A.
Polarization radiation in the planetary atmosphere delimited by a heterogeneous diffusely reflecting surface
[NASA-TM-77296] 11 p1731 N84-21292
STRELKOVA, N. I.
Use of electromagnetic field in patients following a disruption of cerebral circulation 07 p1044 N84-16768
STRELTSOVA, Y. N.
Use of electromagnetic field in patients following a disruption of cerebral circulation 07 p1044 N84-16768
STREUFERT, S.
Cognition and arousal as predictors of risk taking: Effects of load and cognitive style
[AD-A134324] 08 p1203 N84-17843
Effects of load, cognitive complexity and type A on satisfaction
[AD-A134415] 08 p1203 N84-17846
Effects of stressors on task performance and satisfaction
[AD-A139039] 14 p2187 N84-24101
A player's manual for a complex disaster decision simulation
[AD-A140776] 17 p2747 N84-27438
STREUFERT, S. C.
Task differences, stylistic characteristics and physiological arousal
[AD-A134335] 08 p1203 N84-17844
Effects of load, cognitive complexity and type A on satisfaction
[AD-A134415] 08 p1203 N84-17846
Effects of stressors on task performance and satisfaction
[AD-A139039] 14 p2187 N84-24101
A player's manual for a complex disaster decision simulation
[AD-A140776] 17 p2747 N84-27438
STREWIG, L.
Automated standard nautical chart production
[AD-A132249] 04 p0553 N84-13644
STRICKER, G. D.
Coal occurrence, quality and resource assessment, national petroleum reserve in Alaska 14 p2164 N84-23963
STRICKLAND, D. J.
Study of e-beam propagation in the ionosphere and magnetosphere
[AD-A142206] 19 p3054 N84-29380
STRICKLAND, G.
Reassessment of the OHZ process for the thermochemical decomposition of water
[DE84-007806] 18 p2812 N84-27849
STRICKLAND, J. H.
Dynamic-stall regulation of the Darrieus turbine
[DE83-017994] 03 p0321 N84-12097
STRICKLAND, J. I.
VHF and UHF propagation in the Canadian high Arctic 15 p2326 N84-24969
STRICKLAND, L.
A 500-watt solid-state RF power amplifier AM-7209( )/VRC
[AD-A129327] 01 p0071 N84-10463
STRICKLAND, R. N.
Feasibility studies of optical processing of image bandwidth compression schemes
[AD-A136736] 13 p2043 N84-23254
STRICKLER, D. J.
Numerical simulation of the plasma current quench following a disruptive energy loss
[DE84-003151] 07 p1077 N84-17004
STRIEB, M. I.
Development of speech input/output interfaces for tactical aircraft
[AD-A136485] 09 p1255 N84-18193
STRIFORS, H. C.
Technical theory of pneumatic beams
[FOA-C-20504-E4] 08 p1172 N84-17634
STRIKWERDA, J. C.
Finite difference methods for the incompressible Navier-Stokes equations: A survey
[AD-A136353] 09 p1374 N84-18969
A study of the drawing process for optical fibers
[AD-A142930] 21 p3498 N84-32171
STRILETS, S. Y.
Estimating thermal fatigue strength of prototype blades in gas turbine engine 17 p2642 N84-26906
STRIMAITIS, D. G.
EPA (Environmental Protection Agency) model development for stable plume impingement on elevated terrain obstacles
[PB84-130491] 10 p1533 N84-20038
STRING, J.
Operating costs of aircraft and flight simulators
[AD-A144241] 24 p3969 N84-35132
STRINGER, G. L.
One-dimensional model hindcasts of cold anomalies in the North Pacific ocean
[AD-A139870] 15 p2373 N84-25236
STRINGER, W. J.
Arctic ice island and sea ice movements and mechanical properties
[DE84-014324] 23 p3803 N84-34116
STRINGFELLOW, G. B.
Theoretical and experimental study of solid phase miscibility gaps in 3/4 quaternary alloys
[DE84-004391] 12 p1915 N84-22478
STRINGFIELD, G.
The study of an idealized wing/body junction
[AD-A139933] 15 p2257 N84-24559
STRINGHAM, R. H.
Experimental investigation of elastic mode control on a model of a transport aircraft
[NASA-CR-3472] 18 p2792 N84-27721
STRINGL, P.
Structure and mechanical properties in the Al2O3-MgO system 19 p2996 N84-28984
STRIZAK, J. P.
High-pressure hydrogen testing of single crystal superalloys for advanced rocket engine turbopump turbine blades
[NASA-TM-86464] 23 p3717 N84-33563
STRIZHAKOV, Y. L.
Certain features of a vacuum magnetic-impulse welding process 12 p1787 N84-21656
STRIZHALO, V. A.
Low-cycle fatigue of VT1-0 alloy and changes in its fine structure at temperatures of 293-4.2 deg K 23 p3708 N84-33509
STRIZHEVSKIY, V. L.
Manifestation of the Fermi resonance in surface polariton spectra
[NASA-TM-77386] 14 p2222 N84-24330
STRNAT, K. J.
Study and review of permanent magnets for electric vehicle propulsion motors
[NASA-CR-168178] 04 p0617 N84-14071
STRNISTE, G. F.
Phototransformation of polycyclic aromatic hydrocarbons into stable, mutagenic components
[DE84-001747] 07 p0966 N84-16261
STROBEL, J. E.
Passive sampling device for ambient air and personal monitoring
[PB84-210046] 22 p3599 N84-32798
STROBELL, M. E.
Mapping and geological analysis of Mercury radar data 13 p2089 N84-23532

Mercury: Topographic and geologic data from Earth-based radar observations 13 p2089 N84-23533

STROCK, W. J.
Combustor liner construction [NASA-CASE-LEW-14035-1] 15 p2260 N84-24577

STROEFER, E.
Growth of electrically charged soot particles in flames 15 p2291 N84-24751

STROEKER, R. J.
Diophantine equations 08 p1225 N84-18004

STROEM, L.
Path correction of free flight projectiles by cross firing of subsidiary projectiles [FOA-C-20468-D3] 07 p0962 N84-16236

STROEMBERG, J. O.
Multiparameter maximal functions along dilation-invariant hypersurfaces [CTH-MATH-1984-11] 23 p3819 N84-34215

STROEMBLAD, B. C. R.
Report on study trip to France, 28 June-9 July 1983 [FOA-C-59007-H1] 10 p1555 N84-20193
Report on a visit to England, 7-10 November 1983 [FOA-C-59009-H1] 18 p2901 N84-28402

STROGANOV, G. B.
Carbide phases in high-temperature nickel-hafnium alloys 24 p3871 N84-34532

STROHM, G. A.
ISIS: A constraint-directed reasoning approach to job shop scheduling [AD-A133296] 06 p0933 N84-16063

STROHMEIER, H.
Comparative studies of vapor and liquid-phase impregnation of porous silicon nitride and silicon carbide materials [DE84-012867] 21 p3359 N84-31309

STROKOVA, I. I.
Special features of information presentation in teaching systems [BLL-M-35604-(5828.4)] 21 p3516 N84-32273

STROM-GUZOWSKI, K.
Training decision-makers to be creative: A management process model [AD-P003347] 18 p2912 N84-28466

STROM, E. E. I.
Inlet flowfield investigation. Part 2: Computation of the flow about a supercruise forebody at supersonic speeds [NASA-CR-172315] 12 p1766 N84-21516

STROM, R. G.
Modeling Io volcanism: Maximum volcanic temperatures, depths of melting and magma composition 13 p2073 N84-23436
Martian crater size distributions and terrain age 13 p2077 N84-23462
Geologic investigations of outer planets satellites [NASA-CR-173497] 13 p2091 N84-23544
Spatial distribution of craters on the Moon and Callisto 15 p2426 N84-25574

STROME, W. M.
CCRS proposal for evaluating LANDSAT-D MSS and TM data [E84-10026] 02 p0238 N84-11560
CCRS proposal for evaluating LANDSAT-4 MSS and TM data [E84-10096] 10 p1522 N84-19966
Evaluating LANDSAT-4 MSS and TM data [E84-10157] 17 p2709 N84-27249

STRONACH, C. E.
Muon spin rotation in solids [NASA-CR-172789] 08 p1234 N84-18067

STRONG, A. E.
Using the NOAA-7 AVHRR data to monitor El Chichon aerosol evolution and subsequent sea surface temperatures anomalies 10 p1539 N84-20083

STRONG, E. G.
Internal pressure distributions for a two-dimensional thrust-reversing nozzle operating at a free-stream Mach number of zero [NASA-TM-85655] 04 p0480 N84-13161

STRONG, J. P.
Analysing remotely sensed data on the Massively Parallel Processor 23 p3779 N84-33963

STRONG, R.
Multispectral linear array visible and shortwave infrared sensors 23 p3781 N84-33977

STRONG, R. D.
Los Alamos real-time and digital radiography plans [DE84-004327] 10 p1482 N84-19685

STRONGIN, M.
Fragmentation of small molecules following soft X-ray excitation [DE83-011645] 02 p0289 N84-11896

STROOCK, D.
Applications of the Malliavin calculus, part 2 [REPT-83-PT-2] 21 p3476 N84-32032

STROOM, C.
Future trends in spacecraft thermal control designs 10 p1439 N84-19397
MANIP and MINIP, new modeling tools for the thermal engineer 10 p1443 N84-19425
ESATAN: A thermal network analysis computer program 10 p1443 N84-19426

STROOSNIJDER, L.
Group Agromet Monitoring Project (GAMP), phase 1 [ESA-CR(P)-1769] 07 p1023 N84-16637
Estimating net rainfall, evaporation and water storage of a bare soil from sequential L-band emissivities 23 p3769 N84-33889

STROTHERS, R. B.
Geological rhythms and cometary impacts [NASA-TM-86116] 21 p3524 N84-32327

STROUB, R. H.
An experimental investigation of a free-tip rotor configuration in a forward flight wind-tunnel test [NASA-TM-84409] 01 p0003 N84-10018
Numerical analysis of a variable camber rotor blade as a lift control device [NASA-CR-173452] 12 p1769 N84-21538

STROUD, C. R., JR.
Intrinsic instabilities in homogeneously broadened lasers 14 p2235 N84-24411

STROUD, W. J.
Buckling loads of stiffened panels subjected to combined longitudinal compression and shear: Results obtained with PASCO, EAL, and STAGS computer programs [NASA-TP-2215] 07 p1015 N84-16585

STRUKOV, I.
Commentary on Prognoz-9 satellite 09 p1264 N84-18253

STRUNIN, G.
Process for renovating aircraft tires tested 18 p2790 N84-27712

STRUNIN, M. A.
Turbulent pulsations of horizontal and vertical wind velocity components in clouds of different genera 17 p2697 N84-27182

STRUNK, H.
Silicon liquid phase epitaxy with solution transport by centrifugal forces and investigation and characterization of silicon epitaxial layers by transmission electron microscopy [BMFT-FB-T-83-097] 02 p0300 N84-11969

STRUNK, W. D.
Technique for modal data acquisition in remote locations using hand portable instrumentation [DE84-005755] 12 p1819 N84-21854

STRUPAT, W.
UV and optical spectroscopy of W Serpentis objects 24 p3980 N84-35212

STRUVE, K. W.
Observed current enhancement with propagation of the ETA electron beam in air [DE84-010558] 20 p3293 N84-30909

STRUWE, D.
The BLOW-3A: A theoretical model to describe transient two phase flow conditions in Liquid Metal Fast Breeder Reactor (LMFBR) coolant channels 06 p0843 N84-15497
Theoretical simulation of thermohydraulic behavior of sodium cooled subassemblies in steady state and transient conditions 06 p0843 N84-15498

STRUWE, M.
Bifurcation and multiplicity results for nonlinear elliptic problems involving critical sobolev exponents [AD-A139332] 14 p2219 N84-24315

STRZYZEWKI, W.
A method for obtaining new derived benzimidazoles [AD-A144320] 24 p3867 N84-34507

STUART, C. G.
Water resources data for Louisiana, water year 1982. Volume 1: Central and Northern Louisiana [PB84-118546] 09 p1339 N84-18750

STUART, D. G.
Appropriateness of the small-cage-reared rat as a model for the study of altered-activity effects 09 p1354 N84-18851

STUART, L. M., JR.
The Heat Capacity Mapping Mission (HCMM) anthology [E84-10051] 05 p0695 N84-14563
The HCMM system: Development and performance 05 p0696 N84-14570

STUART, T. A.
A study of the high frequency limitations of series resonant converters [NASA-CR-173868] 22 p3581 N84-32678

STUART, V. I. W.
Polymerizations of acetylenes and cyclic olefins induced by metal-carbynes [AD-A137090] 10 p1468 N84-19589

STUBBE, P.
Summary of ionospheric heating experiments at Tromsoe (Norway) 05 p0635 N84-14178
Observations of stimulated electromagnetic emissions during ionospheric heating experiments 05 p0635 N84-14179
Preliminary results from the Heating Rocket (HERO) project: In situ measurements of ionospheric modifications using sounding rockets 05 p0636 N84-14183
The electron and ion spectra of radar returns from the critical height during ionospheric heating experiments 05 p0636 N84-14185
First observations of 140 MHz plasma line backscatter during healthy experiments at Tromsoe [UIO-SR-84-02] 20 p3243 N84-30588

STUCHLY, M. A.
Studies of the electric field distribution in biological bodies: Experimental dosimetry at radio frequencies [AD-A143507] 22 p3628 N84-32992

STUCHLY, S. S.
Studies of the electric field distribution in biological bodies: Experimental dosimetry at radio frequencies [AD-A143507] 22 p3628 N84-32992

STUCKENBERG, H.
A diagnosis scheme for sensors of a flight control system using analytic redundancy 03 p0316 N84-12067

STUCKEY, J. M.
Development of an improved protective cover/light block for multilayer insulation [NASA-TM-82563] 06 p0809 N84-15269

STUDER, F. A.
The maximum entropy method and its application to clutter cancellation 06 p0907 N84-15890

STUDER, P. A.
Magnetic bearings for inertial energy storage 03 p0345 N84-12242
Analysis of a high-frequency Stirling Cycle compressor for cryogenic cooling in space [NASA-TM-85066] 06 p0852 N84-15555

STUDWELL, M. L.
Development of an EM-based lifeform monitor [AD-A140583] 17 p2745 N84-27430

STUEBEN, K.
Software development based on multigrid techniques [GMD-84] 17 p2751 N84-27459

STUEDEMANN, W.
The ISPM solar-wind ion composition spectrometer 09 p1261 N84-18232

STUERMER, A.
Monolithic integrated analog switching arrays [BMFT-FB-T-83-146] 02 p0216 N84-11418
Applications of analog Change Coupled Devices (CCD's) [BMFT-FB-T-83-141] 03 p0456 N84-13002

STUERZER, R.
Precise leveling 10 p1519 N84-19944

STUFF, R.
Propeller noise at subsonic blade tip speeds, torque and thrust force [ESA-TT-821] 16 p2554 N84-26385

STUHLMANN, R.
Error analysis of satellite derived radiation flux densities 10 p1534 N84-20047

STULEMEIJER, I. P. J. M.
Computation of the fluid-borne noise in hydrostatic systems and ways to decrease it [BMFT-FB-HA-84-023] 21 p3403 N84-31583

STULEN, R. H.
Manipulator having thermally conductive rotary joint for transferring heat from a test specimen [DE84-010958] 20 p3186 N84-30242

STUMP, C. W.
Surface accuracy measurement sensor test on a 50-meter antenna surface model [NASA-TM-85689] 07 p0992 N84-16427

STUMPF, H.
Unified operator description, nonlinear buckling and post-buckling analysis of thin elastic shells [RUB-IFM-MITT-34] 06 p0857 N84-15582

STUMPF, R. P.
A dynamic analysis of rotary combustion engine seals [NASA-TM-83536] 05 p0688 N84-14519

STUPAKOV, G. V.
Flute instability of plasma in a gas-dynamic trap [DE84-013348] 23 p3828 N84-34284
Influence of plasma flow on flute instability [DE84-013314] 23 p3829 N84-34285

STUPP, B. C.
Practical applications and uses of solid lubricant films 15 p2342 N84-25056

STURCHIO, N. C.
Geology, petrology and geochronology of the metamorphic rocks of Meatiq Dome, Central Eastern Desert, Egypt 22 p3621 N84-32942

STURDEVANT, J. A.
Study of Thematic Mapper and Multispectral Scanner data applications 20 p3215 N84-30421
STURE, S.
The strength and behavior of steel fiber-reinforced concrete under combined tension-compression loading
[AD-A136124] 09 p1334 N84-18708
Identification of strain-softening properties and computational predictions of localized fracture
[AD-A141866] 19 p3036 N84-29258
STUREK, W. B.
Navier-Stokes computational study of the influence of shell geometry on the Magnus effect at supersonic speeds
[AD-A130630] 01 p0079 N84-10516
Computational modeling of aerodynamic heating for XM797 nose cap configurations
[AD-A133684] 05 p0627 N84-14126
Computations of projectile magnus effect at transonic velocities
[AD-A133212] 06 p0783 N84-15127
Boundary-layer trip effectiveness and computations of aerodynamic heating for XM797 nose-tip configurations
[AD-A128036] 07 p0947 N84-16148
STURGES, W.
On the wind stress - sea level power law
[AD-A132035] 03 p0410 N84-12681
Research in oceanography
[AD-A139690] 15 p2373 N84-25237
STURGESS, G. J.
Stationary state computational fluid dynamics for aero-propulsion devices 21 p3354 N84-31278
STURLESE, S.
Grain boundary segregation and cavity formation in creep embrittled Cr-Mo steels 06 p0817 N84-15320
STURM, B.
Marine remote sensing activities of the Joint Research Center, Ispra, Italy 03 p0396 N84-12586
STURM, M. J.
Control definition study for advanced vehicles
[NASA-CR-3738] 07 p0958 N84-16212
STURROCK, P. A.
Extragalactic radio sources
[NASA-CR-173606] 16 p2582 N84-26557
STURTIVANT, G. J.
BAe reaction wheels for Olympus 09 p1297 N84-18475
STUSTER, J.
Habitability and human productivity issues confronting the Air Force Space Command
[AD-P003266] 18 p2906 N84-28431
A systematic comparative analysis of conditions analogous to long-duration space missions
[AD-P003353] 18 p2912 N84-28469
STUTE, M.
Ceramic components for gas turbines, phase 2
[BMFT-FB-T-83-198] 08 p1105 N84-17183
STUTRUD, J. S.
Utilization of laser diagnostics to evaluate combustor models 15 p2294 N84-24767
STUTZ, J.
Pareto-optimality, efficiency analysis and empirical production functions
[AD-A141768] 19 p3088 N84-29601
STUTZ, R. D.
Flexible manufacturing line for aircraft structures of sheet metal
[BMFT-FB-W-84-011] 19 p2955 N84-28731
STUTZMAN, W. L.
A simple model for the depolarizing effects of rain and ice on Earth-satellite links in the 10 to 30 GHz frequency range
[NASA-CR-174482] 02 p0211 N84-11382
Ice depolarization on low-angle 2 GHz satellite downlinks 15 p2323 N84-24946
STYGAR, W. A.
Diagnosing the ion beam on the applied-B diode
[DE83-017822] 03 p0447 N84-12943
Direct measurement of the energy spectrum of an intense proton beam
[DE84-000457] 04 p0597 N84-13939
Proto-I axial-focusing experiments
[DE84-000458] 04 p0599 N84-13951
STYSIN, V. Y.
Precision photometer for measurement of low levels of maximum power of pulses laser radiation 17 p2638 N84-26873
STYSKAL, G. W.
Connector and cable assembly specifications for the SHAPE fiber optic network
[AD-A141280] 18 p2932 N84-28593
SU, J.
LANDSAT-4 MSS geometric correction: Methods and results 20 p3213 N84-30409
SU, L. S.
An automated technique for determining cloud velocity from GMS data. 1: The design and construction of a scanning converter 24 p3956 N84-35049
SU, R.
Nonlinear transformat
[NASA-CR-166506] 06 p0905 N84-15877
Review of research under the Joint Services Electronics Program
[AD-A141458] 19 p3013 N84-29100
SU, S. Y. H.
Testability of VLSI (Very Large Scale Integration) leakage faults in CMOS (Complementary Metal Oxide Semiconductor)
[AD-A138978] 13 p2047 N84-23281
SU, Y. L. D.
A review of the literature on training simulators. Translators: Transfer of training and simulator fidelity
[AD-A142732] 20 p3263 N84-30700
SU, Y. T.
User manual of the CATSS system (version 1.0) communication analysis tool for space station
[NASA-CR-171728] 08 p1142 N84-17431
Autonomous Integrated Receive System (AIRS) requirements definition. Volume 3: Performance and simulation
[NASA-CR-175263] 22 p3576 N84-32648
SUAREZ, G.
Tectonic deformation of the Andes and the configuration of the subducted slab in central Peru: Results from a micro-seismic experiment
[NASA-CR-175445] 11 p1681 N84-20972
SUAREZ, M. J.
Postprocessing for the UCLA climate model 12 p1854 N84-22079
Prospects for improvement of zonal mean temperatures in the UCLA general circulation model 12 p1856 N84-22088
Stratocumulus simulations with a general circulation model 12 p1856 N84-22090
Climate sensitivity with a seasonal cycle energy balance model 12 p1856 N84-22091
Design for and efficient dynamic climate model with realistic geography 12 p1856 N84-22092
Design of coupled ocean-atmosphere experiments 12 p1856 N84-22093
Development and preliminary tests of a new long-wave radiation parameterization 12 p1857 N84-22097
A note on the temporal behavior of bucket hydrologies 12 p1858 N84-22103
SUBBARAO, E. C.
Transport properties of fluorite oxides 11 p1740 N84-21355
SUBBARAO, S.
Characterization of glass fiber separator material for lithium batteries 23 p3736 N84-33674
SUBBARAYA, B. H.
Measurement of nitric oxide in the equatorial D-region and other relevant parameters
[IWF-8304] 17 p2728 N84-27365
SUBBIAH, R.
Unbalance response of a single mass rotor mounted on dissimilar hydrodynamic bearings 10 p1515 N84-19919
SUBKE, H.
Flight mechanics test with a restricted flying aircraft model in a wind tunnel
[DFVLR-FB-84-13] 18 p2789 N84-27701
SUBRAHMANYAM, A.
Management and performance of APPLE battery in high temperature environment 23 p3738 N84-33693
SUBRAHMANYAM, J. V.
Elastic wave scattering from cylindrical cavities and solid inclusions analyzed by the resonance method
[AD-P002971] 14 p2201 N84-24207
SUBRAHMANYAM, K. B.
An improved finite-difference analysis of uncoupled vibrations of tapered cantilever beams
[NASA-TM-83495] 04 p0548 N84-13610
Improved finite-difference vibration analysis of pretwisted, tapered beams
[NASA-TM-83549] 07 p1015 N84-16588
Improved methods of vibration analysis of pretwisted, airfoil blades
[NASA-TM-83735] 20 p3200 N84-30329
SUBRAMANIAN, K. N.
Effect of temperature on some of the mechanical properties of Cu-10Ni-6Sn spinodal alloy
[DE84-004432] 10 p1461 N84-19538
TEM studies on the deformation structure of Cu-10Ni-6Sn spinodal alloy
[DE84-004426] 11 p1635 N84-20690
SUBRAMANIAN, S. V.
Analysis of longwave radiation for the Earth-atmosphere system
[NASA-CR-173155] 08 p1143 N84-17437
SUBRAMANYA, S.
The Consolidated Space Operations Center (CSOC) communications acquisition
[AD-P002154] 14 p2138 N84-23819
SUBUDHI, M.
The development of methods to predict both the dynamic and the pseudo-static response of secondary structures subjected to seismic excitations
[DE84-010284] 22 p3612 N84-32884
SUCHENTRUNK, R.
Electroforming of complicated structures for the nuclear and aerospace industry
[MBB-BB-536-82-OE] 02 p0207 N84-11350
Fabrication of pressure vessels from fiber reinforced aluminum by electroforming for space application
[BMFT-FB-W-84-009] 19 p3032 N84-29235
SUCHMAN, D.
Applications of the AVE-SESAME data sets to mesoscale studies
[NASA-CR-3819] 21 p3446 N84-31866
Studies of lightning data in conjunction with geostationary satellite data 24 p3928 N84-34861
Applications of the AVE-Sesame data sets to mesoscale studies 24 p3931 N84-34886
SUCIU, D. F.
Assessment of the BCL and ORL chemical heat pumps
[DE83-011450] 01 p0080 N84-10518
Survey and assessment of heat of reaction type chemical heat pumps
[DE84-010988] 21 p3401 N84-31576
SUCKE, D.
A simple mathematical model for heat transfer and its application for continuous type reheating furnaces 01 p0077 N84-10503
SUCKOW, U.
Predevelopment of IR-CCD components
[BMFT-FB-T-83-133] 03 p0456 N84-13001
SUD, Y. C.
Ocean fluxes simulated by the GLAS GCM 12 p1855 N84-22085
An ensemble formulation of PBL fluxes in a GCM 12 p1858 N84-22102
Time dependent land and vegetation canopy temperatures 12 p1858 N84-22104
Influence of surface roughness of a desert 12 p1859 N84-22109
Role of soil moisture in maintaining droughts 12 p1859 N84-22110
SUDAN, R. N.
Unified theory of the power spectrum of long wavelength ionospheric electron density irregularities
[AD-A137356] 10 p1537 N84-20068
SUDARSHAN, E. C. G.
Realization of first order optical systems using thin lenses
[DE84-002848] 05 p0747 N84-14909
Fourier optics for the Maxwell field: Formalism and applications
[DE84-002845] 06 p0826 N84-15383
Relativistic particle dynamics: Lagrangian proof of the no-interaction theorem
[DE84-009147] 19 p3102 N84-29707
Research program in elementary particle theory
[DE84-011502] 20 p3297 N84-30933
SUDDARTH, S. K.
Purdue plane structures analyzer 2: A computerized wood engineering system, 1983 version
[AD-A142042] 19 p3078 N84-29533
SUDDETH, D.
Relativistic-beam pickup test facility
[DE83-017929] 04 p0600 N84-13962
SUDDHIPRAKARN, C.
Effects of rigid inclusions on wave propagation
[AD-A131366] 02 p0209 N84-11366
SUDHOF, H.
Feasibility study on a new type of personal noise protection
[BMFT-FB-HA-84-017] 18 p2915 N84-28489
SUEMITSU, M.
All-aluminum-alloy UHV chamber for molecular beam epitaxy, 1 13 p2039 N84-23229
SUENAGA, M.
Superconducting properties of Nb3Sn multifilamentary wires fabricated by internal tin process
[DE83-018189] 06 p0925 N84-16011
SUENKEL, H.
Geodesy and Global Geodynamics 07 p1028 N84-16665
SUESS, S. T.
Magnetohydrodynamic modeling of coronal structure and expansion 03 p0468 N84-13081
Operational uses for a solar soft X-ray imaging telescope
[PB84-137538] 11 p1756 N84-21466

SUESSENGUTH, G.
Reports from the German Meteorological Service, no. 163. Contribution to the classification of waste heat weather situations by means of thermal stratification. Upper Rhine model. Waste heat project, Upper Rhine, part 2
[ISBN-3-88148-206-7] 12 p1849 N84-22048
SUGAHARA, R.
Large area spark counters with fine time and position resolution
[DE84-007804] 15 p2337 N84-25031
Large area spark counter with fine time and position resolution
[DE84-008203] 19 p3028 N84-29202
SUGAI, H.
External excitation of ion cyclotron drift waves in a two-ion species plasma
[IPPJ-665] 13 p2044 N84-23264
SUGAMA, T.
Electropositive bivalent metallic ion unsaturated polyester complexed polymer concrete
[DE84-011080] 20 p3146 N84-29979
SUGAWARA, Y.
Characteristics of heat and flame resistant optical fiber cables 11 p1726 N84-21260
SUGGS, R. M.
Temporal albedo variations in Saturn's atmosphere 17 p2776 N84-27627
SUGIHARA, M.
Numerical analyses for scrape-off plasmas in FER divertor chamber 11 p1734 N84-21313
SUGIHARA, R.
Non-stochastic acceleration of protons in the magnetic neutral sheet
[IPPJ-646] 06 p0919 N84-15975
Effect of lower hybrid wave heating on alpha-particle dynamics
[IPPJ-649] 10 p1580 N84-20351
Dynamically accelerated superthermal electrons in microwave plasma interaction
[IPPJ-648] 10 p1580 N84-20354
The dc acceleration of charged particles by an electrostatic wave propagating obliquely to a magnetic field vector B sub O
[IPPJ-671] 19 p3106 N84-29735
Finite-element-analysis of fields radiated from ICRF antenna
[IPPJ-675] 20 p3301 N84-30965
SUGIHARA, S.
Experimental study of the naphtaline heat pipe 20 p3169 N84-30125
SUGIURA, M.
Distributions of aurora and ionospheric currents observed simultaneously on a global scale
[AD-A140615] 17 p2727 N84-27360
SUGIYAMA, H.
Numerical analysis of dusty supersonic flow past blunt axisymmetric bodies
[UTIAS-267] 01 p0003 N84-10023
SUISSE, D. C.
Replacement of PBNA in HB and HC polymers used in SRM propellant and liner
[NASA-CR-170936] 03 p0355 N84-12311
SUIT, W. T.
Analysis of shuttle oscillation in the Mach Number = 1.7 to Mach Number = 1.0 range 01 p0021 N84-10132
Stability and control over the supersonic and hypersonic speed range 01 p0021 N84-10135
SUITOR, J. W.
A survey of gas-side fouling in industrial heat-transfer equipment
[NASA-CR-173469] 12 p1841 N84-22003
SUITS, G. H.
An analysis of spectral discrimination between corn and soybeans using a row crop reflectance model
[E84-10008] 01 p0099 N84-10642
SUIZU, R. I.
Enhanced tracking of airborne targets using multiple model filtering techniques for adaptive field of view expansion
[AD-A141144] 18 p2926 N84-28554
SUKHANOV, A. A.
Guaranteed accuracy in determining orbit of Halley's Comet 19 p2973 N84-28845
SUKHORUKOV, A. G.
Discharging a superconducting store into an inverting converter
[AD-A135577] 09 p1341 N84-18761
SUKHORUKOV, O. A.
Method for identifying trace contaminants in chamber atmosphere at high pressure 02 p0262 N84-11718
SUKRI, J.
Characteristics of a prototype experiment 13 p2027 N84-23140
SUKYS, R.
GSE for balloon-borne I.M.S.: Decommutator and D/A units
[AD-A131845] 03 p0377 N84-12452
SULAKVELIDZE, G. K.
Density, specific humidity and water vapor elasticity above condensation level 17 p2697 N84-27183
SULAKVELIDZE, Y. G.
Density, specific humidity and water vapor elasticity above condensation level 17 p2697 N84-27183
SULIMA, A. V.
Cross section for absorption of partly shielded dielectric sphere 17 p2635 N84-26858
Scattering properties of partly screened dielectric sphere
[REPT-218] 17 p2662 N84-26983
SULIT, R. A.
Feasibility of thermal NDE methods for Naval thermal spray coatings
[DE84-001463] 06 p0855 N84-15569
SULLAVAN, J. N.
Water resources data, Kentucky water year 1982
[PB84-162320] 14 p2171 N84-24004
SULLENGER, D. B.
Determination of the optimum crystallization conditions of a high thermal expansion glass-ceramic
[DE84-009734] 19 p3000 N84-29014
SULLIVAN, B.
Remote sensing applications of pulsed photothermal radiometry
[AD-A130154] 01 p0086 N84-10563
Optical probing of photoacoustic propagation for noncontact measurement of flows, temperatures and chemical compositions
[AD-A134129] 05 p0684 N84-14496
Profile of laser-produced acoustic pulse in a liquid
[AD-A134138] 05 p0686 N84-14510
SULLIVAN, B. R.
Condition evaluation of Supersonic Naval Ordnance Research Track (SNORT)
[AD-A140036] 15 p2265 N84-24599
SULLIVAN, D. B.
A cryocooler for applications requiring low magnetic and mechanical interference 06 p0818 N84-15333
An approach to optimization of low-power Stirling cryocoolers 06 p0818 N84-15334
SULLIVAN, D. J.
Beam propagation experimental study
[AD-A133310] 06 p0915 N84-15946
SULLIVAN, E. J.
Fiber optic bundle towed array
[AD-D011034] 19 p3105 N84-29724
Conformal array compensating beamformer
[AD-D011198] 24 p3893 N84-34654
SULLIVAN, E. M.
Fabrication of glass gas cells for the HALOE and MAPS satellite experiments
[NASA-TM-86302] 24 p3866 N84-34501
SULLIVAN, J. H.
Chemical kinetics in hydrogen-air flames
[DE84-011002] 21 p3361 N84-31323
SULLIVAN, P.
Analysis of symmetric reinforcement of quasi-isotropic graphite-epoxy plates with a circular cutout under uniaxial tensile loading
[AD-A139998] 15 p2285 N84-24715
SULLIVAN, P. D.
Cost accounting standards: A time for government and industry action
[AD-P002767] 13 p2053 N84-23314
SULLIVAN, P. P.
Turbulence effect on laminar separation on a circular cylinder 15 p2314 N84-24889
SULLIVAN, R. M.
Nickel cadmium charge control concepts 23 p3738 N84-33688
SULLIVAN, S. M.
The effect of cold work on martensitic transformations in CU-ZN-AL shape memory alloys
[AD-A139975] 15 p2297 N84-24789
SULLIVAN, S. T.
Synthesis of refractory compounds with gasless combustion reactions
[AD-A140296] 16 p2472 N84-25842
SULLIVAN, T. L.
Effect of vortex generators on the power conversion performance and structural dynamic loads of the Mod-2 wind turbine
[NASA-TM-83680] 19 p3049 N84-29347
SULLIVAN, W. N.
A comparison of finite-element predictions and experimental data for the forced response of the DOE 100 kW vertical-axis wind turbine
[DE83-012624] 03 p0389 N84-12537
Comparison of finite element predictions and experimental data for the forced response of the DOE 100 kW vertical axis wind turbine
[DE84-007977] 14 p2159 N84-23932
SULTANGALEYEV, R. N.
Regulation of mechanical characteristic of iron-powder electromagnetic brake 21 p3379 N84-31444
SULZBACHER, G.
Ceramic components for gas turbines, phase 2
[BMFT-FB-T-83-198] 08 p1105 N84-17183
SULZENKO, D. D.
Structures and properties of new types of cubical boron nitride
[CSIR-TRANS-1683] 01 p0030 N84-10190
SULZER, M.
The HF-enhanced plasma line 05 p0635 N84-14180
SULZER, M. P.
Decoding: Codes and hardware implementation 17 p2694 N84-27160
SUME, A.
Desk-top computer controlled instrument lathe for machining with high form accuracy
[FOA-C-30339-E1,E3] 08 p1214 N84-17918
SUMIDA, J. T.
Land Mobile Satellite Service (LMSS) channel simulator: An end-to-end hardware simulation and study of the LMSS communications links
[NASA-CR-173744] 18 p2828 N84-27956
SUMIHARA, K.
New variational formulations of hybrid stress elements 21 p3420 N84-31690
SUMIKAWA, D.
Environment for scientific laboratories
[DE83-013848] 12 p1919 N84-22504
SUMMERAUER, I.
Scope for active noise abatement in vehicle diesel engines
[BLL-M-28767-(5825.4)] 20 p3290 N84-30885
SUMMERFIELD, M.
Analysis of combustion oscillations in heterogeneous systems
[AD-A144436] 24 p3880 N84-34583
SUMMERLIN, A.
Water resources data for Florida, water year 1982. Volume 1A: Northeast Florida surface water
[PB84-162338] 14 p2170 N84-24002
SUMMERS, C. J.
Molecular beam epitaxy of HgCdTe
[AD-A141574] 19 p3110 N84-29761
SUMMERS, M. A.
Reflex ring laser amplifier system
[DE84-010874] 20 p3193 N84-30282
SUMMERS, P. M.
A CRAY-Class multiprocessor simulator
[AD-A136555] 09 p1365 N84-18913
SUMMERS, R. L.
Development of a high efficiency compressor/expander for an air cycle air conditioning system
[AD-A130976] 02 p0229 N84-11502
SUMMERSCALES, J.
The mechanical properties of carbon fibre with glass fibre reinforced plastics 15 p2284 N84-24710
The mechanical properties of carbon fibre with glass fibre hybrid reinforced plastics 21 p3357 N84-31292
SUMMEY, D. C.
Compendium of US incompressible flow facilities
[AD-A143650] 23 p3696 N84-33424
SUMMITT, R.
Extending the lifetime of operational systems through corrosion tracking and prediction
[AD-A133931] 05 p0625 N84-14112
SUMNER, J. S.
Geophysical exploration surveys for ground water in the San Pedro Basin, Arizona
[PB84-110808] 08 p1179 N84-17684
SUMNEY, L. W.
VLSI signal processing: Basis for cooperation 09 p1403 N84-19168
SUN, C.
A 20-GHz IMPATT transmitter
[NASA-CR-168076] 02 p0212 N84-11385
SUN, C. R.
High energy channeling and its applications
[DE84-007251] 19 p3103 N84-29715
SUN, C. T.
Effect of initial stresses on the impact behavior of graphite-epoxy laminates 15 p2310 N84-24859
Crack-growth resistance of laminated hybrid composites 15 p2311 N84-24868
SUN, J.
The simulation of a Frequency Shift Keying (FSK) diversity system
[DFVLR-FB-83-22] 03 p0363 N84-12363

SUN, M.
A study of helicopter rotor aerodynamics in ground-effect at low speeds 06 p0779 N84-15106
SUN, W. J.
An investigation of the thermodegradation of ablative organic silicon resin
[AD-A135546] 08 p1137 N84-17397
SUN, Y.
Small continuous wave (CW) HF chemical laser
[AD-A144322] 24 p3908 N84-34756
SUN, Y. C.
The existence of Karman vortex streets of unequal vortex strengths and possible forms of wake flow behind bluff bodies
[DFVLR-FB-83-33] 12 p1766 N84-21519
SUN, Y. M.
Thin film models of SMSI (Show Strong Metal-Support Interactions) catalysts: Pt on oxidized titanium
[AD-A140569] 17 p2767 N84-27572
SUN, Z.
Transactions of the Chinese Solar Energy Society (selected articles)
[AD-A131870] 03 p0403 N84-12637
SUNDARA-RAJAN, A.
Analysis of lidar, radar and satellite measurements on severe thunderstorms and their environments
24 p3928 N84-34864
SUNDARAM, P.
Transonic interference flow-field analysis for wing-body-pylon-store
[AD-A141811] 19 p2959 N84-28754
SUNDARARAJAN, T.
Laminar condensation heat and mass transfer to a drop moving at intermediate or high Reynolds number
11 p1651 N84-20777
SUNDARARAMAN, N.
The high altitude pollution program (1976 - 1982)
[AD-A144390] 24 p3917 N84-34800
SUNDBERG, G. R.
New developments in power semiconductors
01 p0011 N84-10065
Advances in solid state switchgear technology for large space power systems
[NASA-TM-83652] 13 p1986 N84-22891
SUNDQUIST, H.
Ion plating as a deposition method for tribological coatings
[VTT-13] 15 p2296 N84-24778
SUNDRIYAL, R. R.
Studies in environmental geomorphology of Dudhatoli Ridge Garhwal, Himalay, India 23 p3770 N84-33902
SUNDSTROM, B. M.
MIL-STD-1760 development program
[AD-P003526] 21 p3330 N84-31130
SUNG, C. C.
Optical bistability in semiconductors
14 p2237 N84-24428
SUNG, C. S. P.
Durability and failure analyses of a silane treated Alpha-Al2O3/Polyethylene joint in wet environment
[AD-A136089] 09 p1333 N84-18705
Development of FT-IR attenuated total internal reflection dichroism techniques for structural characterization of polymer surfaces
[AD-A140805] 17 p2768 N84-27577
SUNG, K. C.
The geologic and geophysical study of the Hengchung Peninsula, southern Taiwan, 1 24 p3957 N84-35052
SUNG, N. H.
Plasma modification of graphite fibers and its effect on composite properties
[AD-A136558] 09 p1276 N84-18329
Durability and failure analyses of a silane treated Alpha-Al2O3/Polyethylene joint in wet environment
[AD-A136089] 09 p1333 N84-18705
SUNKEL, H.
The generation of a mass point model from surface gravity data
[AD-A142327] 19 p3054 N84-29382
SUNKEL, W. E.
Multipurpose weather roundup program
[PB83-222612] 01 p0110 N84-10711
Thermodynamics library for AFOS (Automation of Field Operations and Services) programmers (THERMO LB)
[PB84-122621] 08 p1215 N84-17925
SUNYAEV, R. A.
Gamma ray line emission, nuclear destruction and neutron production in hot astrophysical plasmas. Deuterium boiler as a gamma ray source
[REPT-762] 11 p1733 N84-21301
SUNYAR, A. W.
Temperature dependence of the electric-field gradient in Er metal
[DE83-015564] 03 p0454 N84-12989
SUOMI, V. E.
Enhancement of SEASAT wind-stress measurements using data from GOES
[PB84-111244] 08 p1192 N84-17773
Applications of the AVE-Sesame data sets to mesoscale studies 24 p3931 N84-34886
Cloud and ice in the planetary scale circulation and in climate
[NASA-CR-173992] 24 p3990 N84-35244
SUPERCZYNSKI, M. J.
Design, construction and test of a 0.61-meter-diameter, epoxy impregnated superconductive magnet
[AD-A135339] 08 p1226 N84-18009
SUPERFESKY, M. J.
Long-term load performance of hardboard i-beams
[AD-A136091] 09 p1334 N84-18706
How some test variables affect bending, tension, and compression values for particle panel products
[AD-A143627] 23 p3761 N84-33836
SURACE, J. A.
Intrasystem Analysis Program (IAP) code summaries
[AD-A135673] 09 p1301 N84-18507
SURAMPUDI, S. P.
Unsteady transonic flow in cascades
[NASA-TM-83780] 22 p3530 N84-32351
SURANYI, P.
Inelastic strong interactions at high energies
[DE84-005666] 11 p1745 N84-21388
Inelastic strong interactions at high energies
[DE84-013647] 22 p3655 N84-33170
SURBER, T. E.
Aerodynamic analysis of the loft anomaly observed on orbital flight tests of the space shuttle
01 p0019 N84-10120
SURESH, M. S.
Management and performance of APPLE battery in high temperature environment 23 p3738 N84-33693
SURESH, S.
Fatigue-crack propagation in viscous environments
[DE83-011741] 02 p0232 N84-11520
Fatigue resistance and microstructure of experimental dual phase Fe/2Si/0.1C steel
[DE84-004314] 11 p1635 N84-20692
Near-threshold fatigue crack propagation: A perspective on the role of crack closure
[DE84-009669] 20 p3180 N84-30202
SURIN, V. A.
Propagation of gas jet in liquid
21 p3480 N84-32057
SURIS, R. A.
Investigation of Bragg reflection of electromagnetic surface waves by diffraction grating
21 p3479 N84-32053
SURKOV, A. V.
Certain features of laser welding with penetrating melting 23 p3709 N84-33513
Fusing capacity of concentrated laser beam
23 p3710 N84-33515
Certain metallurgical properties of laser welding
23 p3710 N84-33517
Effect of surface condition and edge preparation on metal fusion during laser welding
23 p3710 N84-33518
Effect of protective gas composition on seam formation during laser welding 24 p3870 N84-34524
SURKOV, V. T.
Measurements of coefficient of turbulent diffusion in middle-latitude strato- and mesosphere
11 p1670 N84-20894
SURKOVA, I. S.
Bilateral carotid ligation and effects of electromagnetic field on conditioned reflex retention and cerebral nucleic acid levels 20 p3258 N84-30677
SURLES, J.
Organotin piezo- and pyroelectric polymer films
[DE83-009903] 02 p0201 N84-11306
SURMEIAN, M.
Determining the homomorphils of polar substances by gas-liquid chromatography
[BLL-T6164/BG/LRS-(9022.048)]
01 p0036 N84-10229
SURYANARAYANAN, K.
The treatment of convected vortices in compressible potential flow 03 p0324 N84-12121
SUSA, T. A.
Reference plant for high temperature electrodialysis desalting of seawater
[PB84-195841] 22 p3549 N84-32471
SUSEKOV, Y. A.
Local gravity anomalies and crustal density inhomogeneities in southern Kurile Islands
17 p2701 N84-27205
SUSHKEVICH, T. A.
Polarization radiation in the planetary atmosphere delimited by a heterogeneous diffusely reflecting surface
[NASA-TM-77296] 11 p1731 N84-21292
SUSINI, C.
The Istituto di Ricerca sulle Onde Elettromagnetiche (IROE)-lidar remote sensing of the environment
03 p0396 N84-12590
SUSKO, M.
Investigation of thermospheric winds relative to space station orbital altitudes
[NASA-TM-82577] 15 p2371 N84-25220
A review of micrometeoroid flux measurements and models for low orbital altitudes of the Space Station
[NASA-TM-86466] 23 p3700 N84-33455
SUSMAN, S.
Lattice dynamics of the mixed-conducting intermetallic compound alpha-LiAl
[DE83-014334] 05 p0756 N84-14959
SUSOEFF, A. R.
Rail accelerator development for ultra-high pressure research
[DE84-002452] 07 p0960 N84-16223
SUSSKIND, H.
Fourier-processed images of dynamic lung function from list-mode data
[DE83-013276] 01 p0114 N84-10741
SUSSKIND, J.
The 12 micron band of ethane: A spectral catalog from 765 cm(-1) to 900 cm(-1)
[NASA-TM-85108] 10 p1454 N84-19493
Measurement of sea surface temperature from HIRS2/MSU 12 p1836 N84-21966
Simulation studies of proposed observing systems and their impact on numerical weather prediction
12 p1850 N84-22050
Comparison of AMSU temperature soundings with those produced by HIRS and AMTS 12 p1851 N84-22057
Water vapor profile retrieval simulation studies for the HIRS/MSU and AMTS/MSU sounders
12 p1851 N84-22058
Results of the joint NASA/NOAA AMTS/HIRS2 sounding simulation test 12 p1851 N84-22059
Improved HIRS2/MSU soundings using tropopause information 12 p1851 N84-22060
Comparison of GLAS retrieved cloud fields with model generated rainfall fields 12 p1851 N84-22061
High resolution GLAS on the MCIDAS
12 p1852 N84-22062
A new algorithm for tuning of computed radiances for HIRS2/MSU 12 p1852 N84-22063
A new parameterization of 15 micron radiative transfer for a GCM 12 p1858 N84-22105
SUSSMAN, G. J.
Custom integrated circuits 22 p3684 N84-33361
SUSSMAN, M. B.
Inlet flow field investigation. Part 1: Transonic flow field survey
[NASA-CR-172239] 06 p0782 N84-15123
SUSSMANN, E.
Reliability assurance using test structures, phase 2
[ESA-CR(P)-1827-VOL-1] 12 p1825 N84-21894
SUSSMANN, H. J.
Nonexistance of finite dimensional filters for conditional statistics of the cubic sensor problem
[MC-BW-178/83] 07 p1067 N84-16931
SUTCLIFFE, P. R.
The present status of research at the Magnetic Observatory 09 p1343 N84-18777
SUTER, P.
Aeroelasticity in turbomachine-cascades
[AD-A141905] 20 p3131 N84-29880
Two-dimensional and quasi three-dimensional experimental standard configurations for aeroelastic investigations in turbomachine-cascades
[AD-A141904] 20 p3196 N84-30297
SUTER, R.
Extending the lifetime of operational systems through corrosion tracking and prediction
[AD-A133931] 05 p0625 N84-14112
SUTHERLAND, G.
Software maintenance on FORTRAN libraries at a large computer installation
[DE84-002008] 08 p1213 N84-17914
SUTHERLAND, I. E.
Walking machine control programming
[AD-A134435] 07 p1051 N84-16809
SUTIN, N.
Strategies for solar energy conversion utilizing metal complexes
[DE84-008184] 15 p2364 N84-25187
SUTKOVOY, D. A.
Effects of insulin and hydrocortisone on energy metabolism in rats irradiated with fast, 60 MeV neutrons
22 p3630 N84-33002
SUTO, E. J.
Classification management. Journal of the National Classification Management Society, volume 18, 1982
[AD-A138480] 12 p1919 N84-22502

Classification management. Journal of the national classification management society, volume 19, 1983
[AD-A143015] 21 p3518 N84-32286

SUTO, F.
Considerations on deformable ability and ultimate strength of aseismic walls. Part 2: About the derivation of a formula on ultimate shearing stress of walls and its applied verification for some experimental results
21 p3477 N84-32042

SUTTER, B.
Deposits on light alloys
[CETIM-12-F-380] 21 p3368 N84-31371
Pulsed current hard chromium plating
[CETIM-12-F-390] 21 p3369 N84-31372
Hydrogen fatigue test
[CETIM-12-F-400] 21 p3369 N84-31373

SUTTLES, J. T.
A robust pseudo-inverse spectral filter applied to the Earth Radiation Budget Experiment (ERBE) scanning channels
[NASA-TM-85781] 15 p2370 N84-25219

SUTTNER, K.
Actuator development for the Instrument Pointing System (IPS) 15 p2347 N84-25080

SUTTON, C. H.
Atlas of high resolution infrared spectra of carbon dioxide
[NASA-TM-85764] 10 p1576 N84-20325

SUTTON, G.
Development of mass-producible line-focus tracking concentrating solar collectors. Category 1: Collectors
[DE83-015629] 03 p0403 N84-12639
Linear Fresnel lens photovoltaic concentrator program
[DE84-002971] 08 p1180 N84-17689

SUTTON, G. P.
Introduction to flexible manufacturing systems: Their applications, classification, and opportunities
[DE83-017373] 04 p0586 N84-13868

SUTTON, J. R.
Dissemination of data and information
07 p1086 N84-17066
Data organisations and their management
07 p1087 N84-17069

SUTTON, M.
X-ray diffuse scattering 22 p3682 N84-33341

SUTTON, S.
Properties of simulated comet mantle
13 p2076 N84-23452
A possible source for the Martian circumpolar dune material 13 p2082 N84-23490

SUTTON, S. A.
The effects of moisture on fracture toughness and thermal relaxation of stretched acrylic plastics
[AD-P003197] 17 p2591 N84-26610

SUVOROV, A. S.
Physical training of cosmonauts for intercosmos program missions 23 p3805 N84-34129

SUVOROV, I. M.
Relationship between cardiovascular system response and adrenocortical glucocorticoid function on exposure to diffuse, low-intensity helium-neon laser emission
17 p2741 N84-27405

SUVOROV, Y. V.
Experience with development of sealed linear waveguide electron accelerators 13 p1969 N84-22780

SUWA, T.
Unfoldings of foliations with multiform first integrals
14 p2210 N84-24269

SUWANPRASERT, S.
Analytical design of a liquid hydrogen fueled turbofan-ramjet engine for flight Mach numbers zero to five 03 p0336 N84-12187

SUYDAM, B. R.
Scattering and absorption of light by soot particles
[DE84-002308] 06 p0918 N84-15967

SUZUKI, A.
A study of liquid hydrogen cooled LO2/LH2 rocket combustor with channel wall construction
[NAL-TR-767] 16 p2459 N84-25763
Experimental study of the naphtaline heat pipe
20 p3169 N84-30125

SUZUKI, H.
Recent trends and theoretical background in sintering of silicon carbide ceramics
[NASA-TM-77378] 11 p1636 N84-20698

SUZUKI, K.
Experiment of a shockless transonic airfoil
[NAL-TR-783] 09 p1251 N84-18166
Image processing algorithms for a multiple-valued array processor
[AD-P002359] 14 p2193 N84-24150
Silicon carbide material sintered bodies manufacturing
[NASA-TM-77596] 24 p3878 N84-34574

SUZUKI, M.
A small and light weight heat exchanger for on-board helium refrigerator 06 p0819 N84-15339

SUZUKI, S.
Performance characteristics of VAD single mode fibers in mass production basis 11 p1725 N84-21254

SUZUKI, Y.
The loudness of complex noise consisted of impact sound and steady noise 23 p3741 N84-33711

SVALSTAD, D. K.
User's manual for SPECTROM-41: A finite-element heat transfer program
[DE83-014809] 02 p0219 N84-11439

SVCHUBERT, F.
Contribution ot the high temperature deformation behavior of the austenitic steel 1.4981 after neutron irradiation
[JUEL-1904] 23 p3720 N84-33584

SVE, C.
A technique for the nondestructive detection of voids and composition anomalies in metal matrix composite wires using X or gamma rays
[AD-A135481] 08 p1132 N84-17359

SVECHNIKOV, S. V.
Calculating electric fields in semiconductor structures when singularities are present 21 p3479 N84-32051

SVECHNIKOV, V. L.
Low-cycle fatigue of VT1-0 alloy and changes in its fine structure at temperatures of 293-4.2 deg K
23 p3708 N84-33509
Effect of thermocyclic processing on phase composition and structure of VT22 alloy 23 p3709 N84-33511

SVEHLA, R.
In-flight atmospheric and fuel tank temperature measurements 14 p2108 N84-23643

SVENDSEN, E.
Remote sensing of sea ice 08 p1176 N84-17664
Seasonal ice variation in the Barents Sea obtained from the Nimbus 7 Scanning Multichannel Microwave Radiometer (SMMR) observations
23 p3773 N84-33919
The distribution of ice concentration, multiyear and first year fraction in the Arctic Ocean derived from the Nimbus 7 Scanning Multichannel Microwave Radiometer (SMMR) observations 23 p3773 N84-33920
Evaluation of wind estimates over open ocean from the Nimbus 7 scanning multichannel microwave radiometer
23 p3773 N84-33921

SVENDSEN, K. L.
The changing world of geomagnetism: A brief history relating to magnetic observatories
09 p1343 N84-18776

SVENSON, F. C.
The space transportation system reaction control system and orbital maneuvering subsystem
20 p3135 N84-29908

SVENSSON, B.
Observations and classifications with a 35/94 GHz radiometer of terrain near Motala, Sweden, July 1982
[FOA-C-30325-E1,E3] 03 p0402 N84-12630
Backscatter from a corner reflector close to a two-antenna radar system
[FOA-C-30355-E1] 18 p2830 N84-27968
Near field effects in radiometer measurements
[FOA-C-30357-E1] 18 p2830 N84-27969
Proceedings of the Conference on Microwave Signatures in Remote Sensing
[FOA-C-30359-E1,E3] 19 p3042 N84-29305

SVENSSON, E.
Report on an information trip to Holland, August - September 1983
[FOA-C-59006-H2] 10 p1592 N84-20431
The military aircrew work environment
[FOA-A-59005-H1-H2] 18 p2915 N84-28490

SVENSSON, L.
Dose conversion factors for inhaled radionuclides
[FOA-C-40184-A3] 06 p0890 N84-15786

SVENSSON, P.
Viking satellite thermal control analytical verification and test 10 p1441 N84-19410

SVENSSON, S.
Information technique 1982: Underwater technique
[FOA-C-30296-E1,E2,E3] 07 p1085 N84-17058

SVERDLOVA, A. M.
Electrical characteristics of metal-dielectric-semiconductor systems produced on epitaxial silicon structures with various dielectrics
21 p3479 N84-32052

SVINTSITSKIY, A. M.
Processing the results of fatigue testing of structural materials damaged by corrosion
24 p3873 N84-34541

SVIRIDENKOV, M. A.
Condensational variability of scattering phase function
17 p2707 N84-27240

SVITNEV, A. I.
Sensing of factors involved in development of exogenous processes on space photographs of arid territories 19 p2977 N84-28870

SWABY, H. P.
Visualisation of the vortex dominated flow around a delta wing-body combination using a water tunnel
[BAE-821/RES/6631] 13 p1988 N84-22904

SWADLEY, S. D.
The use of satellite observed cloud patterns in Northern Hemisphere 300 mb and 1000/300 mb numerical analysis
[AD-A141215] 18 p2889 N84-28340

SWADLEY, W. C.
Geology of faults exposed in trenches in Crater Flat, Nye County, Nevada
[DE84-000181] 04 p0564 N84-13716

SWAFFIELD, J. A.
Prediction of floating solid velocities in unsteady partially filled pipe flow
[PB83-259598] 05 p0682 N84-14484

SWAFFORD, T. W.
Three-dimensional, time-dependent, compressible, turbulent, integral boundary-layer equations in general curvilinear coordinates and their numerical solution
[AD-A133289] 06 p0844 N84-15504
Three-dimensional, time-dependent, compressible, turbulent, integral boundary layer equations in general curvilinear coordinates and their numerical solutions
22 p3529 N84-32346

SWAIN, A. D.
An approach to modeling of human performance for purposes of probabilistic risk assessment
[DE83-009292] 02 p0269 N84-11764

SWAIN, B.
User manual for driver program
[AD-A139028] 13 p2029 N84-23156

SWAIN, D. W.
Theoretical aspects of throat-launch microwave heating in EBT-S
[DE83-015762] 03 p0438 N84-12875

SWAIN, J. E.
Raising the surface damage threshold of neutral solution processed BK-7 by pulse laser irradiation
[DE83-012660] 02 p0225 N84-11477
Characterization by X-ray topography of laser-induced damage in potassium dihydrogen phosphate crystals
[DE83-012045] 03 p0454 N84-12985

SWAIN, M. R.
Experimental hydrogen-fueled automotive engine design data-base project, volume 1
[DE83-017023] 02 p0204 N84-11331
Experimental hydrogen-fueled automotive engine design data-base project. Volume 2: Main technical report
[DE83-017025] 02 p0204 N84-11332
Experimental hydrogen-fueled automotive engine design data-base project. Volume 3: Main technical report (appendices)
[DE83-017362] 18 p2848 N84-28086

SWAIN, R. C.
Wide flanged beams with improved properties
[BMFT-FB-T-83-082] 02 p0197 N84-11283

SWAJA, R. E.
Accuracy of external personnel dosimetry systems in mixed neutron and gamma radiation fields
[DE83-015712] 02 p0266 N84-11751

SWALLOW, C. E., JR.
Defense industry attitudes about AF interface standards report of an electronics industries association survey
[AD-P003570] 21 p3337 N84-31175

SWAMINATHAN, S.
Viscous shock-layer predictions of three-dimensional nonequilibrium flows past the space shuttle at high angle of attack 01 p0024 N84-10151
Three-dimensional nonequilibrium viscous shock-layer flows over complex reentry vehicles
13 p1927 N84-22543

SWAN, P. D.
Chemical and isotopic measurements of micrometeoroids by secondary ion mass spectrometry (A0187-2) 15 p2276 N84-24670

SWANK, J. H.
Models of the hard X-ray spectrum of AM Herculis and implications for the accretion rate
[NASA-TM-86045] 08 p1242 N84-18123

SWANK, L. R.
Ceramic life prediction methodology - hot spin disc life program
[AD-A134783] 08 p1138 N84-17400

SWANK, R. P.
DECISION TECHNOLOGY: The catalyst for acquisition improvement
[AD-P002755] 13 p2051 N84-23302

SWANN, D. A.
Cost analysis of Mode S data link avionics system for the low-performance general aviation aircraft community
[DOT/FAA/PM-83/38] 18 p2795 N84-27735

SWANN, M. H.
An automatic sine-wave grating controller to be used for contrast sensitivity testing
[AD-A136294] 12 p1812 N84-21811
SWANN, T. A.
Alignment telescope for Antares
[DE83-014179] 01 p0086 N84-10576
The Los Alamos free-electron-laser oscillator experiment: Plans and present status
[DE83-017290] 03 p0382 N84-12485
SWANN, T. G.
A code of practice to constrain Ada (Trademark)
[AD-P003559] 21 p3335 N84-31163
SWANSON, A.
Langley experience with ADABAS/NATURAL
22 p3671 N84-33272
SWANSON, D. H.
The government relationship to industry in technology transfer and development
[AD-P002772] 13 p2053 N84-23319
SWANSON, E. E.
Development and analysis of a STOL supersonic cruise fighter concept
[NASA-TM-85777] 13 p1930 N84-22553
Application of near-term technology to a Mach 2.0 variable-sweep-wing, supersonic-cruise executive jet
[NASA-CR-172321] 14 p2104 N84-23621
SWANSON, J. L.
Mobility of organic complexes of nickel and cobalt in soils
[DE83-017897] 04 p0564 N84-13720
SWANSON, L.
Effects of NRZ-M modulation on convolutional codes performance 16 p2479 N84-25894
An easy-to-implement coding scheme for multifrequency PPM 16 p2479 N84-25896
A strategy for successful deep space information transmission in bad weather 22 p3574 N84-32635
SWANSON, L. W.
Evaluation of single crystal LaB6 cathodes for use in a high frequency backward wave oscillator tube
[NASA-CR-173343] 10 p1485 N84-19709
SWANSON, P. N.
183 GHz water line variation: An energetic outburst in orion KL
[NASA-TM-85956] 16 p2574 N84-26522
A search for 183-GHz emission from water in late-type stars
[NASA-TM-85987] 23 p3838 N84-34348
SWANSON, R. A. L.
Carbon monoxide fourth positive ultraviolet airglow emissions on Venus 05 p0764 N84-15015
SWANSON, R. E.
The role of hydrogen in the stress corrosion cracking of 7XXX-series aluminum alloys
23 p3717 N84-33561
SWANSON, R. M.
Investigation of metallic impurities introduced into SiO/sub 2
[AD-A136008] 09 p1396 N84-19117
SWART, D. H.
The nature and analysis of random waves in shallow water. Part 1: Text and figures
[CSIR-RR-388/1-PT-1] 04 p0532 N84-13496
The nature and analysis of random waves in shallow water. Part 2: Appendices
[CSIR-RR-388/2-PT-2] 04 p0532 N84-13497
SWARTOUT, W. R.
The GIST behavior explainer
[AD-A130730] 01 p0122 N84-10793
Tools for specification validation and understanding
[AD-A141079] 19 p3074 N84-29506
SWARTWOUT, R.
Synthesis algorithm for minimal components in T-ulm networks
[AD-P002379] 14 p2196 N84-24170
SWARTZ, C. K.
Voltage controlling mechanisms in low resistivity silicon solar cells: A unified approach
[NASA-TM-83612] 11 p1673 N84-20916
Radiation damage and defect behavior in ion-implanted, lithium counterdoped silicon solar cells
[NASA-TM-83646] 13 p1985 N84-22890
Radiation tolerance of low resistivity, high voltage silicon solar cells 19 p3045 N84-29318
Cell and defect behavior in lithium-counterdoped solar cells 19 p3046 N84-29322
The effects of lithium counterdoping on radiation damage and annealing in n(+)p silicon solar cells
[NASA-TM-83755] 21 p3390 N84-31513
SWARTZ, K.
Nonlinear kinetic theory of a single helicity tearing instability
[DE84-000049] 04 p0610 N84-14024
Nonlinear trapped electron response for drift wave turbulence in Tokamaks
[DE84-005385] 11 p1737 N84-21335
Nonlocal heat transport by non-Maxwellian electrons
[DE84-012391] 20 p3306 N84-31000
SWARTZ, W. E.
Signal processor architecture for backscatter radars
17 p2695 N84-27164
SWARTZLANDER, E. E., JR.
Frequency domain digital filtering with VLSI
09 p1400 N84-19142
SWEC, D. M.
Sputtered coatings for protection of spacecraft polymers
[NASA-TM-83706] 17 p2626 N84-26803
Dual ion beam deposition of carbon films with diamondlike properties
[NASA-TM-83743] 21 p3390 N84-31512
SWEDBERG, J. L.
NIMBUS-ERB instrument study
[NASA-CR-165922] 02 p0222 N84-11459
SWEDISH, W. J.
Operational and functional description of AERA 1.01
[AD-A136831] 10 p1425 N84-19322
Operational and functional description of the AERA packages
[AD-A136852] 10 p1426 N84-19326
SWEDLOW, J. L.
Modelling particle - particle interaction at the micro scale
[AD-A133969] 05 p0744 N84-14885
On the implications for LEFM (Linear elastic fracture Mechanics) of the 3-dimensional aspects in some crack/surface intersection problems
[AD-A134227] 07 p1016 N84-16592
SWEENEY, D. W.
Design and fabrication of circular and rectangular components for electron-cyclotron-resonant heating of tandem mirror experiment-upgrade
[DE84-003244] 07 p1078 N84-17010
Polarizing holographic reflector for Electron Cyclotron Resonant Heating (ECRH) on the Tandem Mirror Experiment Upgrade (TMX-U)
[DE84-003740] 08 p1162 N84-17568
Circular waveguide systems for electron-cyclotron-resonant heating of the tandem mirror experiment-upgrade
[DE84-003739] 08 p1233 N84-18062
Focusing twist reflector for electron-cyclotron resonance heating in the Tandem Mirror Experiment-upgrade
[DE84-012954] 22 p3578 N84-32663
SWEENEY, H. J.
Melting layer survey
[AD-A137911] 11 p1687 N84-21003
SWEENEY, J.
Feasibility of using sonic techniques to estimate in-situ stresses
[DE83-016890] 01 p0097 N84-10634
Extended development procedure EDeP user's manual
[AD-A131381] 01 p0116 N84-10756
SWEENEY, J. J.
An assessment of methods of geological basin analysis for application to the Uinta and Piceance Basins
[DE84-012369] 20 p3242 N84-30581
SWEENEY, J. L.
Multi-year procurement a 'Team approach'
[AD-P002780] 13 p2055 N84-23327
SWEENEY, M. A.
Analysis of mechanisms for anode plasma formation in ion diodes
[DE83-017793] 04 p0608 N84-14010
SWEENEY, P. J.
A dynamic personnel assignment model in the R and D environment
[AD-P002765] 13 p2052 N84-23312
SWEET, G. C.
A new engineering approach for cable in fire situations using halogenated polymers 11 p1726 N84-21259
SWEET, J. L.
Analysis of normalized radar cross section (sigma-O) signature of Amazon rain forest using SEASAT scatterometer data
[E84-10168] 19 p3039 N84-29278
SWEET, J. N.
Use of numerical heat-transfer techniques to analyze thermal-comparator conductivity measurements
[DE84-000945] 04 p0535 N84-13515
SWEET, W. A.
Short-range local forecasting of coastal summer stratus by statistical techniques, a pilot study
[AD-A134590] 07 p1040 N84-16742
SWEGLE, J. A.
Theoretical treatment of the current neutralization of high intensity light ion beams in argon
[DE84-000118] 05 p0745 N84-14893
Linear stability of general magnetically insulated electron flow
[DE84-010148] 19 p3018 N84-29138
SWENSON, C. A.
Piston-displacement equations of state for sodium, potassium, and rubidium metals to 20 kbar from 300 K to 4 K
[DE83-018079] 03 p0347 N84-12252
Equations of state for the alkali metals, with generalizations to NaCl
[DE83-018075] 03 p0351 N84-12280
SWENSON, H. N.
NASA-FAA helicopter Microwave Landing System curved path flight test
[NASA-TM-85933] 14 p2103 N84-23617
SWENT, R. L.
Planar channeling radiation from relativistic positrons and electrons in LiF
[DE84-002800] 07 p1081 N84-17033
SWIDER, J. E.
Spacelab/Orbiter atmosphere revitalization subsystem commonality and flight experience
10 p1443 N84-19428
SWIFT, C. D.
Three wavelength optical alignment of the Nova laser
[DE84-009702] 18 p2847 N84-28079
SWIFT, C. T.
Microwave remote sensing of ocean surface wind speed and rain rates over tropical storms
17 p2716 N84-27288
SWIFT, G. W.
Thermoacoustic couple
[DE84-011296] 20 p3291 N84-30895
SWIFT, H. F.
FOD (Foreign Object Damage) generation by aircraft tires
[AD-A133319] 06 p0786 N84-15146
SWIFT, W. L.
A miniature tilting pad gas lubricated bearing
06 p0819 N84-15340
SWIFTE, R. H. D.
First, second and third Herstmonceux catalogues of stars for 1950.0
[BULL-189] 08 p1243 N84-18125
SWIGERT, C. J.
Electronic damping of a large optical bench
10 p1514 N84-19914
Electronic cancelling of acoustic traveling waves
[AD-D011153] 23 p3735 N84-33667
SWILLUM, M.
Aerodynamic and Propulsion Test Unit (APTU) performance with a vitiated air heater
20 p3144 N84-29964
SWINDEMAN, R. W.
Mechanical properties of a modified 2 1/4 Cr-1 Mo steel for pressure vessel applications
[DE84-004105] 09 p1285 N84-18394
Metallographic examinations of type 304 stainless steel (heat 9T2796) tested in high-temperature uniaxial and multiaxial experiments
[DE84-010637] 18 p2814 N84-27866
SWINNEY, M.
Real-time in-situ targeting of geoplasma domains for purposes of chemical injection and artificial triggering of equatorial spread-F 05 p0639 N84-14208
SWINTH, K. L.
Evaluation of a draft standard on performance specifications for health physics instrumentation
[DE83-016169] 02 p0266 N84-11749
Evaluation of a draft standard on performance specifications for health physics instrumentation
[DE83-016186] 02 p0266 N84-11750
SWISHER, J. N.
Passive-solar performance: Summary of 1981-1982 class B results
[DE83-009407] 03 p0405 N84-12650
Measured performance of 50 passive solar residences in the United States 16 p2514 N84-26138
SWITHENBANK, J.
Problem independent numerical simulation of two-phase flow in combustors 15 p2294 N84-24768
SWITZER, W. G.
A research study of the assessment of escape impairment by irritant combustion gases in postcrash aircraft fires
[FAA-CT-84-16] 22 p3533 N84-32366
SWOBODA, G. D.
Ozone survey of C-9A
[AD-A130632] 01 p0009 N84-10052
Air monitoring techniques for space shuttle launches Vandenberg Air Force Base
[AD-A132956] 05 p0700 N84-14593
USAF Space Shuttle dispersion modelling
[AD-A132957] 05 p0700 N84-14594

Environmental monitoring instrumentation and monitoring techniques for space shuttle launches
[AD-A136594] 09 p1342 N84-18766

SWORTZEL, F. R.
AFTI/F-16: An integrated system approach to combat automation 06 p0773 N84-15063

SWYT, D. A.
Look at techniques for the dimensional calibration of standard microscopic particles
[PB84-112648] 08 p1126 N84-17324

SY, A.
Handling and processing of hydrographic data
[REPT-111] 07 p1041 N84-16751

SYAMLAL, M.
Simulation of powder distribution in IITRI bag experiments
[AD-A141941] 20 p3170 N84-30128

SYCHEV, V. V.
Asymptotic theory of separation flow
17 p2646 N84-26924

SYDENSTRICKER, R. M.
Electrical, luminescence and SIMS (Secondary ion mass spectroscopy) characterization of carbon implanted vapor phase epitaxial gallium arsenide
[AD-A138094] 12 p1913 N84-22464

SYDER, H.
Advanced composite elevator for Boeing 727 aircraft. Volume 1: Technical summary
[NASA-CR-3290] 18 p2792 N84-27722

SYDNOR, R. L.
Maser cavity servo-tuning system
[NASA-CASE-NPO-15890-1] 06 p0849 N84-15536

SYDORA, R. D.
Particle simulation of drift waves in a sheared magnetic field
[DE84-004026] 09 p1393 N84-19093

SYED, S. A.
Error reduction program: A progress report
11 p1609 N84-20536

SYKES, G. F., JR.
Space radiation effects on graphite-epoxy composite materials
[NASA-TM-85478] 16 p2460 N84-25769

SYKES, J.
Adjoint sensitivity theory for steady-state ground-water flow
[DE84-003335] 09 p1337 N84-18732

SYKES, R. I.
Further developments of the A. R. A. P. model for the atmospheric marine environment
[AD-A129862] 01 p0107 N84-10696

SYLLA, C.
Computer aided layout of procedure information for training and job aiding
[AD-A139347] 14 p2205 N84-24236

SYLTO, R.
Quantitative evaluation of 3 DBMS: ORACLE, SEED AND INGRES 11 p1748 N84-21410

SYLVAIN, M.
Compression algorithm for data analysis in a radio link (preparation of PACEM 2 experiment)
[CRPE-NT-121] 13 p1984 N84-22881

SYLVESTER, P. J.
Geochemistry of volcanic rocks from the Wawa greenstone belt 11 p1680 N84-20963

SYLVESTER, R. J.
Microprocessors in aircrew training devices
[AD-P003485] 21 p3513 N84-32252

SYLVESTER, W. B.
A SEASAT SASS simulation experiment to quantify the errors related to a + or - 3 hour intermittent assimilation technique
[E84-10129] 14 p2168 N84-23987
Vector wind, horizontal divergence, wind stress and wind stress curl from SEASAT-SASS at one degree resolution
17 p2720 N84-27313
Synoptic scale wind field properties from the SEASAT SASS
[E84-10169] 21 p3426 N84-31732

SYMM, G. T.
Guidelines for the design of large modular scientific libraries in Ada
[NPL-DITC-28/83] 03 p0420 N84-12740
Guidelines for the design of large modular scientific libraries in Ada
[MW-NN-31/83] 07 p1056 N84-16840
Guidelines for the design of large modular scientific libraries in Ada
[CWI-NM-N8401] 20 p3275 N84-30792

SYMONDS, P. S.
Elastic-plastic deformation of pulse-loaded structures
[AD-A142350] 20 p3202 N84-30339

SYPCHUK, P. P.
Software debugging devices for microprocessors
24 p3941 N84-34952

SYRESIN, E. M.
Calculation of ballistic focusing of ion beams
[DE84-012870] 20 p3297 N84-30934

SYRIA, S. L.
EPA evaluation of the Malpassi Filter King device under Section 511 of the Motor Vehicle Information and Cost Savings Act
[PB83-214700] 01 p0163 N84-11073
EPA (Environmental Protection Agency) evaluation of the Gyroscopic Wheel Cover device under section 511 of the Motor Vehicle Information and Cost Savings Act
[PB84-143577] 12 p1921 N84-22514

SYROMYATNIKOV, V. S.
Regulation of mechanical characteristic of iron-powder electromagnetic brake 21 p3379 N84-31444

SYRYKH, G. D.
Study of erythrocyte adhesion in cosmonauts
15 p2375 N84-25252

SYS, A.
Study of different welded nipples in headers
[CRIF-MT-159] 21 p3415 N84-31655

SYUNYAYEV, R. A.
Flow of stellar wind past X-radiation source
17 p2645 N84-26920

SZABO, B.
The postprocessing technique in the finite element method the theory and experience
[AD-A140953] 18 p2925 N84-28551

SZABO, N.
Synthetic aperture radar simulation
[AD-P003474] 21 p3512 N84-32246

SZANTO, G.
GD 80: Computer assisted device for engineers
18 p2827 N84-27949

SZATKOWSKI, J. L.
Cooling of high power generators and motors for electric propulsion
[AD-A144049] 23 p3742 N84-33720

SZCZUR, M. R.
A device-dependent interface for interactive image display
[NASA-TM-86136] 21 p3461 N84-31949

SZE, D. K.
Liquid metal breeder-coolant blanket concept
[DE84-006554] 20 p3302 N84-30971

SZE, R. C.
Inductively stabilized, long pulse duration transverse discharge apparatus
[DE84-011301] 20 p3193 N84-30281
Inductively stabilized excimer lasers
[DE84-011371] 20 p3194 N84-30284

SZEBEHELY, V.
Stability and capture of asteroids
19 p3118 N84-29811

SZEJWACH, G.
Applications of airborne remote sensing in atmospheric sciences research 17 p2715 N84-27286

SZEKELY, A.
Technique for the rapid generation of OH radicals behind shock waves and its application to the study of combustion kinetics
[DE84-003183] 08 p1126 N84-17317

SZEKELY, J.
Heat flow, fluid flow and solidification phenomena in weld pools 15 p2306 N84-24835

SZENTES, J.
Qualigraph: A software tool for quality metrics and graphic documentation 05 p0723 N84-14739

SZENTIRMAY, M. N.
Chemical properties and film casting of radiation grafted ion-containing polymers
[AD-A138551] 13 p1963 N84-22754
Ion exchange selectivity of Nafion films on electrode surfaces
[AD-A140824] 17 p2620 N84-26764

SZERI, A. Z.
Flow between rotating disks. Part 1: Basic flow
15 p2315 N84-24890
Flow between rotating disks. Part 2: Stability
15 p2315 N84-24891

SZETELA, E. J.
Deposit formation and heat transfer in hydrocarbon rocket fuels
[NASA-CR-168277] 03 p0343 N84-12225
Alternative fuel deposit formation
15 p2289 N84-24735

SZETO, K. Y.
Magnetic properties of CoCl2-intercalated graphite
[AD-A133860] 05 p0648 N84-14260

SZILAGYI, S.
Some problems in calibrating UBV photometry for effective temperature and surface gravity
15 p2422 N84-25546

SZLACHTA, J.
Development of a redundant computer system for flight augmentation
[BMFT-FB-W-83-027] 10 p1431 N84-19356

SZMULOWICZ, F.
A model of the performance characteristics of silicon-gallium infrared detectors for low background applications
[AD-A143932] 23 p3825 N84-34256

SZOEKE, A.
Inertial effects in laser-driven ablation
[DE83-016941] 03 p0380 N84-12478
Inertial effects in laser-drive ablation
[DE84-000071] 04 p0542 N84-13586

SZUBA, M. A.
Evaluation of automatic test equipment for use with the Army helicopter improvement program
[AD-A137647] 11 p1607 N84-20523

SZUCH, J. R.
Digital computer program for generating dynamic turbofan engine models (DIGTEM)
[NASA-TM-83446] 07 p0954 N84-16185

SZUECS, Z.
Optimized He 2 cooling systems for space application. Behavior and handling of superfluid helium at G = 0, phase 1
[BMFT-FB-W-83-008] 02 p0207 N84-11349
Optimized He 2 cooling systems for space application. Behavior and handling of superfluid helium at g = 0, phase 2
[BMFT-FB-W-84-006] 19 p3025 N84-29185

SZUSZCZEWICZ, E. P.
High-latitude F-region irregularities: Intensity and scale size distributions
[AD-A130689] 01 p0105 N84-10684
Suprathermal electron tail distributions in a space-simulation beam plasma discharge
05 p0638 N84-14199
Real-time in-situ targeting of geoplasma domains for purposes of chemical injection and artificial triggering of equatorial spread-F 05 p0639 N84-14206
Plasma composition and structure characterization of an ionospheric barium cloud 05 p0640 N84-14213

SZWARC, R.
Method of gas purification and system therefore
[DE84-014322] 23 p3720 N84-33582

SZYLD, D. B.
Preliminary results in implementing a model of the world economy on the CYBER 205: A case of large sparse nonsymmetric linear equations 10 p1561 N84-20228

T

TABACK, I.
Technology evaluation of man-rated acceleration test equipment for vestibular research
[NASA-CR-172160] 04 p0574 N84-13781

TABADDOR, F.
Linear and nonlinear viscoelastic constitutive relations of cord reinforced elastomers
[DE84-002371] 05 p0660 N84-14338

TABAK, V. Y.
Modeling of lethal electric shock
22 p3629 N84-33000

TABATA, T.
Dependence of the backscattering coefficients of light ions upon angle of incidence
[IPPJ-AM-34] 15 p2409 N84-25459

TABBAGH, A.
Evaluation of the use of thermal airborne prospection for archaeology during the last 10 years
23 p3769 N84-33890

TABER, M.
Background information on the He(3) nuclear gyroscope
[AD-A130755] 01 p0084 N84-10545

TABER, N. J.
Automated en route air traffic control algorithmic specifications. Volume 3: Flight plan conflict probe
[AD-A136795] 10 p1425 N84-19319

TABIBI, B.
Studies of new media radiation induced laser
[NASA-CR-173846] 21 p3408 N84-31616

TABOADA, J.
Optical distortion analyzer system
[AD-D011127] 22 p3656 N84-33176

TABOR, D.
Status and direction of tribology as a science in the 80's. Understanding and prediction
14 p2152 N84-23892
Future directions of research in adhesion and friction. Status of understanding 14 p2153 N84-23896

TABOR, J. E.
Vectorized Monte Carlo photon transport
[DE83-014807] 03 p0434 N84-12843

TACHERON, P. H.
Flow-visualization study of the MOD-2 wind-turbine wake
[DE83-014391] 01 p0080 N84-10523
TACHIGAMI, S.
Fabrication and evaluation of a high density multi fiber plastic connector 11 p1720 N84-21223
TACINA, R. R.
Transient flow combustion 11 p1613 N84-20560
TACONET, O.
Evaporation from a bare soil evaluated from a soil water transfer model using remotely sensed surface soil moisture data
[CRPE-NT-125] 13 p2006 N84-23016
TADAKI, T.
Mass transfer during drop formation in the presence of interfacial turbulence in the liquid-liquid systems
[BLL-DOUNREAY-TR-923-(9091.9F)] 09 p1311 N84-18568
TADAYYONI, M. A.
Observation of surface-enhanced Raman scattering for transition-metal hexaammine cations at the outer Helmholtz plane: Implications for enhancement mechanisms at electrochemical interfaces
[AD-A139045] 13 p1956 N84-22719
Surface-enhanced Raman spectroscopy of electrochemically characterized interfaces. Transition-metal isothiocyanate adsorbates at silver adsorbates
[AD-A142407] 20 p3148 N84-29986
TADJBAKHSH, I. G.
A numerical technique in the hydrodynamic theory of foil bearings
[AD-P002966] 14 p2200 N84-24204
TADMOR, E.
The well-posedness of the Kuramoto-Sivashinsky equation
[NASA-CR-172431] 22 p3637 N84-33053
The exponential accuracy of Fourier and Tchebyshev differencing methods
[NASA-CR-172435] 22 p3645 N84-33108
TADYCH, G. M.
Integration of flight test data into a real-time simulation 09 p1259 N84-18216
TADZHIDINOV, K. G.
Generalized model of lunar gravitational field 19 p2975 N84-28860
TADZHIDINOV, K. G.
Gravity computations at low altitudes 18 p2861 N84-28167
TAEHTINEN, L.
The fate of the magellanic clouds 09 p1413 N84-19248
Orbital eccentricity in a logarithmic potential 09 p1414 N84-19249
TAELJEDALSHALIT, I. L.
Coherence of appraisal and coping: Parachute jump effectiveness
[FOA-C-55058-H3] 03 p0416 N84-12724
TAEURER, H.
Optimizing tools for generating spherical surfaces and polishing powders in optical production technology
[BMFT-FB-T-84-094] 21 p3499 N84-32178
TAFF, L. G.
On perturbation theory
[AD-A130213] 01 p0131 N84-10856
Relativity and radars
[AD-A133791] 05 p0668 N84-14391
A search for Earth-crossing asteroids, supplement
[NASA-CR-173255] 07 p1092 N84-17101
A search for Earth-crossing asteroids
[NASA-CR-175374] 08 p1245 N84-18139
More optimal searches
[AD-A136934] 10 p1436 N84-19387
Angles-only, ground-based, initial orbit determination
[AD-A142994] 21 p3348 N84-31241
TAFOYA, J.
Development of a point-electrode conductivity salinometer with high-spatial-resolution for use in very-saline solutions
[DE83-011170] 01 p0085 N84-10550
TAFT, B. A.
Vertical sections of oxygen, phosphate, silicate, nitrate and nitrite from the NORPAX Shuttle Experiment
[PB84-138759] 11 p1692 N84-21036
TAFT, J. L.
Chesapeake Bay nutrient dynamics study
[PB84-190982] 20 p3229 N84-30524
TAFT, R. W.
Structural effects on hydrogen bonding properties of nitro compounds
[AD-A130817] 02 p0190 N84-11232
TAFTO, J.
Nucleation and growth of N- and P-type microcrystals in low-temperature glow-discharge deposited silicon films
[DE84-013122] 22 p3667 N84-33246
TAGG, M.
NASA/MSFC NASTRAN auxiliary I/O routines 06 p0858 N84-15592
TAGGE, G. E.
Secondary electric power generation with minimum engine bleed 01 p0010 N84-10059
TAGLAUER, E.
The use of isotopically-enriched carbon probes for erosion deposition measurements in the ASDEX divertor
[DE84-012329] 20 p3307 N84-31006
TAGO, N.
Design and characteristics of radiating pair cable 11 p1720 N84-21217
TAGUCHI, M.
The effect of trapped electrons on the beam-induced current 2
[IPPJ-673] 19 p3106 N84-29736
TAGUE, D. L.
Development of instrumentation for monitoring carbon fiber emission
[PB83-233726] 03 p0378 N84-12460
TAI, K.
Advances in GaAs bistable optical devices 14 p2233 N84-24394
Self-defocusing and optical crosstalk in a bistable optical etalon 14 p2234 N84-24403
TAI, T. C.
An integral prediction method for three-dimensional flow separation
[AD-A142551] 20 p3184 N84-30231
TAIEB, C.
A middle latitude ionospheric model
[CRPE-NT-114] 13 p2012 N84-23049
TAILLET, J.
A systematic characterization of the effects of atmospheric electricity on the operational conditions of aircraft 06 p0776 N84-15086
TAILLIBERT, P.
IDA: Computer-aided testing of real-time software 05 p0722 N84-14736
TAJIMA, T.
Loop coalescence in flares and coronal X-ray brightening
[DE83-013070] 04 p0621 N84-14099
Beat-wave current drive in a magnetized plasma
[DE84-001556] 07 p1077 N84-17003
Particle simulation of drift waves in a sheared magnetic field
[DE84-004026] 09 p1393 N84-19093
Computer modeling of fast collisionless reconnection
[DE84-006714] 14 p2229 N84-24367
Collective ion acceleration by a reflexing electron beam: Model and scaling
[AD-A141241] 18 p2929 N84-28577
TAKACS, A. M.
Bacterial degradation of polychlorinted biphenyls in sludge from an industrial sewer lagoon
[NASA-TM-83543] 02 p0243 N84-11594
TAKACS, L.
Computational aspects of the nonlinear normal mode initialization of the GLAS 4th order GCM 12 p1853 N84-22071
Documentation of the GLAS fourth order general circulation model. Volume 1: Model documentation
[NASA-TM-86064-VOL-1] 14 p2179 N84-24048
Documentation of the GLAS fourth order general circulation model. Volume 2: Scalar code
[NASA-TM-86064-VOL-2] 14 p2179 N84-24049
Documentation of the GLAS fourth order general calculation model. Volume 3: Vectorized code for the Cyber 205
[NASA-TM-86064-VOL-3] 14 p2179 N84-24050
TAKACS, L. L.
Effect of high latitude filtering on NWP skill 12 p1852 N84-22066
Empirically derived second order schemes for the advection equations with minimum dissipation and dispersion errors 12 p1853 N84-22073
On the effect of using the Shapiro filter to smooth winds on a sphere 12 p1853 N84-22074
TAKAGI, H.
Study of latent heat storage system used heat pipes for cooling of underground cables 20 p3170 N84-30127
TAKAGI, S.
Electron capture cross sections in high energy He2+ + neutral Li collisions
[IPPJ-679] 21 p3500 N84-32182
TAKAGI, T.
A study on accurate frequency-control of semiconductor lasers 22 p3563 N84-32566
TAKAHARA, H.
Fluid-dynamic error in measurement of periodic flow by spherical yawmeter and flow separation on yawmeter head 07 p0983 N84-16369
TAKAHARA, K.
Tensile strength of pressureless-sintered silicon nitride at elevated temperature
[NAL-TR-753] 04 p0548 N84-13611
Strength evaluation test of pressureless-sintered silicon nitride at room temperature
[NASA-TM-77394] 14 p2119 N84-23700
TAKAHASHI, D.
Transient response dynamic module modifications to include static and kinetic friction effects 22 p3610 N84-32872
TAKAHASHI, H.
Tidal and solar cycle effects on the OI 5577 angstrom, NaD and OH(8,3)airglow emissions observed at 23 deg S
[INPE-2901-PRE/419] 02 p0248 N84-11620
The night airglow O2(1-Sigma) atmospheric band at 8645A and the rotational temperature observed at 23 deg S
[INPE-3021-PRE/459] 12 p1846 N84-22034
Vertical and horizontal phase propagation in the mesopause region observed by the OI5577 angstrom, O/sub 2 atmospheric band, NaD and OH(8,3) band nightglow emissions
[INPE-3022-PRE/460] 12 p1846 N84-22035
Low latitude F-region studies using the OI6300 angstrom and 7744 angstrom nightglow measurements at Cachoeira Paulista, Brazil
[INPE-3025-PRE/463] 12 p1847 N84-22040
Aerodynamic characteristics of fan-jet STOL aircraft
[NAL-TR-790] 16 p2440 N84-25651
TAKAHASHI, K.
Beam Plasma Discharge (BPD) experiments in the laboratory 05 p0638 N84-14197
The harmonic structure of PC 3-4 magnetic pulsations at geosynchronous orbit and its relation to the solar wind 06 p0940 N84-16106
On applications of a specification and description language NESDEL to communication protocols 22 p3563 N84-32567
TAKAHASHI, M.
A small and light weight heat exchanger for on-board helium refrigerator 06 p0819 N84-15339
TAKAHASHI, S.
Heat transfer characteristics of regenerator matrix (case of packed wire gauzes)
[NASA-TM-77448] 24 p3899 N84-34693
TAKAHASHI, T.
The role of H/sub 2O in molecular clouds: Line transfer and thermal balance in warm dusty medium 10 p1596 N84-20460
Detection of extrasolar planets by the large deployable reflector
[NASA-TM-85874] 11 p1757 N84-21471
VISSR IR grid data processing 24 p3922 N84-34821
TAKAHASHI, Y.
Elastic-plastic constitutive modeling of concrete
[DE83-014547] 02 p0206 N84-11342
TAKAKURA, T.
Timing analysis of hard X-ray emission and 22 GHz flux and polarization in a solar burst
[INPE-3103-PRE/502] 16 p2581 N84-26551
TAKAMATSU, H.
Strain analysis of thin composites with Moire method
[NAL-TR-754] 04 p0548 N84-13612
TAKAMATSU, Y.
Fluid-dynamic error in measurement of periodic flow by spherical yawmeter and flow separation on yawmeter head 07 p0983 N84-16369
TAKAMURA, S.
Effect of lower hybrid wave heating on alpha-particle dynamics
[IPPJ-649] 10 p1580 N84-20351
TAKANISHI, M.
Rotational temperature measurements in free jet expansions of N2 using the electron beam fluorescence technique 07 p0984 N84-16376
TAKANISHI, T.
Frequency characteristics of spring constants of a suspended transmission line 07 p0982 N84-16361
TAKANO, E.
Some test results of synthetic aperture radar transmitter and receiver 23 p3783 N84-33988
TAKANO, K.
Documentation of the GLAS fourth order general circulation model. Volume 1: Model documentation
[NASA-TM-86064-VOL-1] 14 p2179 N84-24048
Documentation of the GLAS fourth order general circulation model. Volume 2: Scalar code
[NASA-TM-86064-VOL-2] 14 p2179 N84-24049

Documentation of the GLAS fourth order general calculation model. Volume 3: Vectorized code for the Cyber 205
[NASA-TM-86064-VOL-3] 14 p2179 N84-24050

TAKANORI, S.
Electronic 4-wheel drive control device
[NASA-TM-77618] 24 p3910 N84-34764

TAKAOKA, M.
Research and development of long heat pipes and their applications 20 p3170 N84-30126

TAKASE, Y.
Study of parametric instabilities during the Alcator C lower hybrid wave heating experiments
[DE84-002809] 07 p1077 N84-17000
Lower hybrid experiments at the 1 MW level on Alcator C: Heating and current drive
[DE84-010586] 20 p3304 N84-30981

TAKASU, S.
The heat pipe exchanger with controllable heat exchanging area 20 p3169 N84-30124

TAKASUGI, K.
Experimental studies on plasma confinement in Nagoya bumpy torus
[IPPJ-655] 10 p1580 N84-20355
Heavy ion beam probe for the study of plasma confinement in Nagoya bumpy torus
[IPPJ-669] 15 p2409 N84-25462

TAKASUGI, T.
Measurements of microwave backscattering signatures of the ocean surface using X-band and Ka-band airborne scatterometer/radiometer system 23 p3771 N84-33907

TAKATORI, K.
Fabrication of highly dense SiN4 ceramics without additives by high pressure sintering
[NASA-TM-77425] 16 p2470 N84-25829

TAKAYANAGI, K.
A numerical study of artificial electron aurora experiments
[ISAS-611] 20 p3240 N84-30568

TAKEDA, H.
New modeling of compartment fires and problem of flashover 04 p0513 N84-13365
Limiting energy spread at high laser intensities using phase space displacement
[AD-A133322] 06 p0850 N84-15542
Two-stage FEL (Free Electron Laser) program
[AD-A133508] 06 p0850 N84-15546

TAKEDA, J.
National Aerospace Laboratory News (Japan)
[NASA-TM-76962] 10 p1427 N84-19335

TAKEDA, K.
Suppression of peak noise by reshaping coaxial flow circumferentially under static conditions
[NAL-TR-770] 09 p1386 N84-19053

TAKEMURA, A.
A generalization of autocorrelation and partial autocorrelation functions useful for identification of ARMA(p,q) processes
[AD-A140880] 17 p2759 N84-27516

TAKENAI, K.
Dynamic property studies of Sterling engines
[NASA-TM-77719] 19 p3031 N84-29225

TAKEUCHI, M.
Surface acoustic wave resonators in layered substrates with large electromechanical coupling coefficient 13 p2039 N84-23230
Simultaneous observation of snowfall intensity and visibility in winter at Sapporo 15 p2354 N84-25125

TAKEUCHI, S.
The dc acceleration of charged particles by an electrostatic wave propagating obliquely to a magnetic field vector B sub O
[IPPJ-671] 19 p3106 N84-29735
Relativistic vector sub p x vector sub b acceleration of charged particles by an obliquely propagating electrostatic wave
[IPPJ-680] 21 p3500 N84-32183

TAKI, M.
Crystal growth of artificial snow 18 p2799 N84-27763

TAKIMOTO, A.
Magnetohydrodynamic equilibrium and stability of spheromak plasma in flux conserver
[IPPJ-642] 03 p0443 N84-12909

TAKIZAWA, N.
Wind tunnel investigation of the rolling moment of a rectangular wind with some winglets on the left upper tip
[NAL-TR-788] 16 p2440 N84-25650

TAKIZAWA, T.
Characteristics of snow cover on sea ice and formation of snow ice 15 p2354 N84-25126

TAKSAR, M. I.
Average optimality criteria in the problems with unlimited control rates
[PB84-127943] 09 p1384 N84-19040

TAL-EZER, H.
Spectral methods in time for hyperbolic equations
[NASA-CR-172302] 10 p1568 N84-20274

TALALYEV, V. D.
Hydrogen embrittlement of titanium and its alloys 24 p3875 N84-34554

TALASKA, D.
Cryogenic testing of the TPC superconducting solenoid
[DE84-000528] 04 p0527 N84-13467
Forced two-phase cooling of the TPC superconducting solenoid
[DE83-017749] 04 p0613 N84-14049

TALAVERA, A.
The 1978 - 1984 fading of the Seyfert 1 galaxy F-9 24 p3972 N84-35149
Search for chromospheric indicators in A dwarf stars 24 p3974 N84-35169
The Mg 2 lines in A dwarf stars 24 p3974 N84-35170
The search for superionization lines in A dwarf stars 24 p3975 N84-35171
IUE low dispersion spectra reference atlas 24 p3976 N84-35179

TALBERT, L. R.
Interactive information environments: A plan for enabling interdisciplinary research
[RAND/N-2115] 22 p3673 N84-33284

TALBERT, S.
Analysis of fracture modes during extrusion and drawing of bimetal rods or wire
[DE8/ J09849] 20 p3157 N84-30051

TALBERT, S. G.
State-of-the-art survey of existing knowledge for the design of ground-source heat pumps
[DE84-002988] 07 p1003 N84-16504

TALBOT, J.
An ER-2 aircraft airborne lidar as part of the development program of a spaceborne system: A potential NASA/CNES cooperative project 24 p3907 N84-34744

TALBOT, J. M.
Research opportunities in muscle atrophy
[NASA-CR-175422] 10 p1546 N84-20135
Research opportunities in muscle atrophy
[NASA-CR-3796] 17 p2743 N84-27416

TALBOT, L.
Density fluctuations in premixed turbulent flames
[DE84-012055] 21 p3361 N84-31322
Conditional velocity statistics in premixed CH-4-air and C-2H-4-air turbulent flames
[DE84-012257] 22 p3549 N84-32464

TALISA, S. H.
MSW (magnetostatic wave) variable time-delay techniques
[AD-A133770] 05 p0753 N84-14941

TALLANT, D. R.
Helium/solid powder o-ring leakage correlation experiments
[DE83-013773] 01 p0090 N84-10588
Plasma-initiated laser deposition of polycrystalline and monocrystalline silicon films
[DE84-005527] 13 p1996 N84-22953

TALLEY, B.
Proceedings of the 16th LAMPF Users-Group Meeting
[DE83-013215] 03 p0382 N84-12488

TALLEY, D.
Vaporization of synthetic fuels
[DE84-006556] 12 p1803 N84-21755

TALLMAN, D. E.
Characterization of Kel-F-graphite composite (Kelgraf) electrodes and application to detection in flowing streams
[PB83-224204] 01 p0039 N84-10247

TALLMAN, R. L.
Joining silicon nitride based ceramics: A technical assessment
[DE84-011356] 20 p3164 N84-30092

TALMADGE, R.
Non-self generating transducer signal conditioning technique
[AD-P002677] 11 p1657 N84-20814
Aircraft ground vibration test instrumentation system
[AD-P002694] 11 p1660 N84-20829

TALMAN, R.
Elementary principles of linear accelerators
[DE84-007911] 20 p3294 N84-30913

TALMONT
Industrialization of emitters modules, part 2
[SEP-TS/SE/BT/10457/83-PT-2] 16 p2475 N84-25866

TALONE, P.
Test methodology for the level two subsystem of an X25 procedure for data terminal equipment
[FUB-3-1983] 10 p1483 N84-19694

TALPSEPP, L. A.
Trapped topographic waves in Baltic Sea 17 p2698 N84-27186

TALUKDAR, S. N.
A distributed control system for the CMU Rover
[AD-A133201] 06 p0893 N84-15802

TALVACCHIO, J.
Thin film technology of high-critical-temperature superconducting electronics
[AD-A136722] 10 p1589 N84-20411

TALZHANOV, A. B.
Movement of free-flowing materials in aerodynamic controlled-feed gate 09 p1324 N84-18852

TAM, A. C.
Remote sensing applications of pulsed photothermal radiometry
[AD-A130154] 01 p0086 N84-10563
Optical probing of photoacoustic propagation for noncontact measurement of flows, temperatures and chemical compositions
[AD-A134129] 05 p0684 N84-14496
Profile of laser-produced acoustic pulse in a liquid
[AD-A134138] 05 p0686 N84-14510
Thermal diffusivity in thin films measured by noncontact single-ended Pulsed-Laser-Induced thermal radiometry
[AD-A135991] 09 p1396 N84-19116
Techniques of flash radiometry
[AD-A138412] 12 p1908 N84-22427
Infrared photothermal radiometry
[AD-A140562] 17 p2765 N84-27561
Pulsed-laser generation of ultra-short acoustic pulses: Application for thin-film ultrasonic measurements
[AD-A141874] 19 p3100 N84-29690
Optical generation and detection of acoustic pulse profiles in gases for novel ultrasonic absorption spectroscopy
[AD-A141876] 19 p3104 N84-29720
Measurement of small elastic anisotropy in solids using laser induced ultrasonic pulses
[AD-A144296] 24 p3912 N84-34775
Pulsed photothermal radiometry for noncontact spectroscopy, material testing and inspection measurement
[AD-A144640] 24 p3964 N84-35101

TAM, K. C.
Employment of adaptive learning techniques for the discrimination of acoustic emissions
[AD-A138142] 12 p1899 N84-22366

TAM, L. T.
Rocket injector anomalies study. Volume 1: Description of the mathematical model and solution procedure
[NASA-CR-174702] 22 p3543 N84-32428
Rocket injector anomalies study. Volume 2: Results of parametric studies
[NASA-CR-174703] 22 p3543 N84-32429

TAMARIN, V.
IL-76 used successfully for Arctic cargo air drops 18 p2784 N84-27673

TAMBORSKI, C.
Perfluoroalkylether substituted phenyl phosphines
[AD-D011122] 22 p3558 N84-32529

TAMIR, S.
Laser beam technology promoting high speed and selective plating processes
[AD-A143715] 23 p3754 N84-33797

TAMKOVICH, G. M.
Spacecraft command-measurement complex 09 p1264 N84-18256

TAMMA, K. K.
On the space shuttle wing thermal-structural analysis 16 p2457 N84-25755

TAMME, R.
Development of media for dynamic latent heat storage for the low temperature range. Part 1: Thermal analysis of selected salt hydrate systems
[DFVLR-FB-84-03-PT-1] 15 p2362 N84-25170

TAMOR, S.
d-d Tokamak reactor assessment
[DE83-016127] 04 p0609 N84-14019
Studies in RF emission and absorption in EBT plasmas
[DE84-002118] 07 p1076 N84-16996
DDRFP transport code
[DE84-008573] 19 p3109 N84-29753

TAMUZH, V. P.
Scale effect of fiber strength and properties of fiber-based unidirectional composites 23 p3706 N84-33496

TAN, G. B. T.
Spacecraft thermal balance testing using infrared lamps on a dummy spacecraft 10 p1439 N84-19399

TAN, J.
Journal of aeronautical materials (selected articles)
[AD-A140167] 16 p2434 N84-25610

TAN, L. S.
The BJT-JFET: A novel merged device structure
[AD-A132373] 04 p0525 N84-13454

TAN, S. C.
Transient horizontal flame spread tests on cellular plastics - experimental results, volume 1
[PB84-135458] 10 p1469 N84-19595
Matrix cracking in composites and its effects on damaged ply constitutive behavior
17 p2677 N84-27052

TAN, S. R.
The preparation of sodium beta-alumina by the isostatic pressing and zone sintering of spray dried powders
11 p1744 N84-21377

TANABE, H.
A method of measuring distortion noise in digital audio equipment
[NHK-LABS-NOTE-299] 20 p3177 N84-30174

TANABE, J.
Efficient radiation-hardened, 400- and 800-keV neutral-beam injection systems
[DE83-015891] 03 p0440 N84-12886
High gain free electron laser at ETA
[DE84-002001] 05 p0686 N84-14512

TANABE, T.
Quenched Carbonaceous Composite (QCC): A likely candidate for interstellar grains
16 p2571 N84-26501
Quenched Carbonaceous Composite (QCC): A likely candidate for interstellar grains
18 p2949 N84-28899

TANAHASHI, S.
Start-up and quasi-stationary drive of plasma current by lower hybrid wave in the JPII T-IIU Tokamak
[IPPJ-667] 15 p2409 N84-25461
Impurity origin during ICRF heating in JIPP T-IIU Tokamak
[IPPJ-682] 23 p3827 N84-34271
Visible-light imaging MHD studies of the edge plasma in the JIPP-T-IIU Tokamak
[IPPJ-683] 23 p3827 N84-34272

TANAKA, H.
Flexible composite film for printed circuit board
[NASA-TM-77109] 01 p0069 N84-10452
Flexible substrate for printed wiring
[NASA-TM-77459] 10 p1451 N84-19478

TANAKA, J.
Reditlow multiprocessing
[DE84-003194] 12 p1884 N84-22262

TANAKA, K.
Structures and properties of polymers important to their wear behavior 14 p2154 N84-23902
Observation of scattered light between Omega-2 and 3/2-Omega in short wavelength laser produced plasmas
[DE84-012533] 20 p3306 N84-31001
How useful are odd-integer half-harmonics
[DE84-012392] 21 p3501 N84-32190
A case study of spaceborne synthetic aperture radar system design for the Earth Resources Satellite
23 p3782 N84-33987
Some test results of synthetic aperture radar transmitter and receiver 23 p3783 N84-33988

TANAKA, K. L.
Geology of the Olympus Mons region of Mars
16 p2580 N84-26547

TANAKA, M.
Bending elasticity of circularly notched bars as monolithic flexure hinges in precision mechanisms
[DE84-002199] 06 p0661 N84-15612
Experimental studies on plasma confinement in Nagoya bumpy torus
[IPPJ-655] 10 p1580 N84-20355
Logic-type Schmitt circuit using multi-valued gates
[AD-P002353] 14 p2192 N84-24144

TANAKA, S. J.
Effect of lower hybrid wave heating on alpha-particle dynamics
[IPPJ-649] 10 p1580 N84-20351

TANAKA, T.
Observations and theory of irregularities of middle latitude sporadic E layers 04 p0562 N84-13703

TANAKA, Y.
Radiation and laser potential of homo and heteronuclear rare-gas diatomic molecules
[AD-A130093] 01 p0141 N84-10929

TANASE, M.
Diffusivities of hydrogen in yttrium and yttrium alloys
[DE84-000411] 04 p0503 N84-13296

TANCREDI, J. J.
Development program for a 200kW, CW gyrotron
[DE84-007945] 14 p2149 N84-23874

TANDON, J.
Process in manufacturing high efficiency AlGaAs/GaAs solar cells by MO-CVD 19 p3044 N84-29311

TANEDA, K.
The heat pipe exchanger with controllable heat exchanging area 20 p3169 N84-30124

TANG, C. L.
Microwave, semiconductor research - materials, devices and circuits
[AD-A140052] 15 p2413 N84-25489
Pressure-dependence of glass transition temperature of elastomeric glasses
[AD-A141485] 19 p2998 N84-28999

TANG, C. M.
The evolution of spontaneous and coherent radiation in the free electron laser oscillator
[AD-A134458] 08 p1165 N84-17583
Observational and theoretical studies of the evolving structure of baroclinic waves 24 p3925 N84-34845
The effects of latent heat release on the waves with Ekman pumping 24 p3926 N84-34847

TANG, F.
Study of the fatigue crack propagation characteristics of YB-3 and YB-4 aeronautical organic glass
20 p3160 N84-30069

TANG, J. S.
Automatic electron density profiles from digital ionograms 06 p0869 N84-15659
Automatic real time ionogram scaler with true height analysis - artist
[AD-A135174] 08 p1187 N84-17732

TANG, K. Y.
Radiative collisional laser feasibility demonstration
[AD-A135793] 09 p1322 N84-18640

TANG, L.
Journal on Numerical Methods and Computer Applications (selected articles)
[AD-A134752] 08 p1220 N84-17967

TANG, P. K.
A new numerical method for the transient gas-dyanmic code EVENT
[LA-9594-MS] 06 p0920 N84-15977
High-efficiency particulate air filter behavior at high-speed flows
[DE84-014137] 22 p3595 N84-32769

TANG, R.
Transient thermal stresses in a reinforced hollow disk or cylinder containing a radial crack
[NASA-CR-173292] 08 p1170 N84-17619
Stress intensity factors in a reinforced thick-walled cylinder
[NASA-CR-172307] 11 p1668 N84-20879

TANG, S. L.
Chemical reaction dynamics at surfaces
22 p3681 N84-33340

TANG, S. Y.
Low-energy collisions excited atoms
[AD-A144192] 24 p3961 N84-35087

TANG, Z.
On a simple adaptive tracking filter
[AD-A138955] 13 p2033 N84-23186

TANG, Z. Q.
Investigation on low pressure limit of Bayard-Alpert gauge
[DE84-002578] 05 p0685 N84-14502

TANGE, T.
Fine pointing control of the solar UV telescope on the sounding rocket S-520-5
[ISAS-608] 06 p0938 N84-16094

TANGUAY, A. R., JR.
Real-time synthetic aperture radar image formation utilizing an electrooptic spatial light modulator
07 p0989 N84-16411
Nonlinear real-time optical signal processing
[AD-A142619] 20 p3300 N84-30956

TANI, E.
Gas pressure sintering of Beta-Sialon with Z=3
[NASA-TM-77421] 14 p2129 N84-23765

TANI, Y.
Dynamic property studies of Sterling engines
[NASA-TM-77719] 19 p3031 N84-29225

TANIGUCHI, K.
Realization and analysis of a mask-programmable I2L multivalued logic circuit
[AD-P002352] 14 p2192 N84-24143

TANIGUCHI, Y.
Visible-light imaging MHD studies of the edge plasma in the JIPP-T-IIU Tokamak
[IPPJ-683] 23 p3827 N84-34272

TANII, J.
Crystal growth of artificial snow
18 p2799 N84-27763

TANIMOTO, M.
Ablation accelerator (ABLAC) as driver for impact fusion
[IPPJ-668] 15 p2410 N84-25463

TANIMOTO, T.
Waveform inversion of mantle Love waves: The born seismogram approach
[NASA-CR-174483] 02 p0248 N84-11622
Lateral heterogeneity and azimuthal anistropy of the upper mantle: Love and Rayleigh waves 100-250 sec
[NASA-CR-174619] 06 p0878 N84-15710
Reliability-based design principle of composite materials with failure probability as a statistic
15 p2309 N84-24851
Statistical fatigue and residual strength degradation model for glass polyester laminates
15 p2309 N84-24857

TANIS, F. J.
Multi-temporal analysis of LANDSAT imagery for bathymetry
[AD-A130648] 01 p0100 N84-10652
Simulation of Thematic Mapper data for remote bathymetry
[AD-A136377] 09 p1337 N84-18728
Roughness effects on compressor blade performance in cascade at high Reynolds number
[AD-A136896] 10 p1492 N84-19755
Development of Great Lakes algorithms for the Nimbus-G coastal zone color scanner
[NASA-CR-173511] 17 p2711 N84-27258

TANIS, J. A.
Simultaneous electron capture and excitation in ion-atom collisions
[DE83-005799] 06 p0910 N84-15907
Correlated charge changing interactions and K X-ray emission in ion-atom collisions
[DE84-008645] 18 p2930 N84-28580

TANK, J. S.
Optimization of next-event estimation probability in Monte Carlo shielding calculations
[DE83-012643] 01 p0137 N84-10900

TANKERSLY, B. C.
Large deployable antenna flight experiment for the Space Technology Experiments Platform (STEP)
08 p1112 N84-17232

TANNEHILL, J. C.
Application of the implicit MacCormack scheme to the parabolized Navier-Stokes equations
[NASA-CR-166579] 19 p3020 N84-29148

TANNEHILL, R. S.
Neurocognitive pattern analysis
[AD-A131302] 01 p0114 N84-10740
Single trial brain electrical patterns of an auditory and visual perceptuomotor task
[AD-A135545] 09 p1362 N84-18899

TANNENBAUM, M.
Trigger systems which could operate at a luminosity of 10/sup 33 cm(-2) to sec/sup -1
06 p0911 N84-15918

TANNENBAUM, M. J.
Fast asynchronous level 1 pre-trigger for electrons at L = 10/sup 33 cm-2 sec-1 06 p0913 N84-15933

TANNER, J. A.
Mixed models and recugion techniques for large-rotation, nonlinear analysis of shells of revolution with application to tires
[NASA-TP-2343] 24 p3912 N84-34773

TANNER, W.
Flat plate heat pipe collectors made by roll bonding
[BMFT-FB-T-83-202] 10 p1495 N84-19778

TANNHAUSER, D. S.
Oxygen exchange measurements on zirconia-yttria electrolyte surfaces modified by various dopants
11 p1742 N84-21367

TANNO, K.
Stress corrosion cracking of stainless steels in sea water at ambient temperature
[BLL-RISLEY-TRANS-4556-(9091.9)]
22 p3550 N84-32476

TANSEL, A. U.
Query execution in the distributed RAP DBM systems
15 p2401 N84-25409

TANSKI, W. J.
Multipole monolithic Surface Acoustic Wave (SAW) resonator filters
[AD-A136123] 09 p1309 N84-18561

TANTON, N. E.
Video noise reduction
[BBC-RD-1984/7] 22 p3571 N84-32615

TANZI, E. G.
Multifrequency observations of active galactic nuclei
24 p3972 N84-35152
UV observations on the variable quasar PG 1351+64
24 p3972 N84-35153

TAO, W. K.
A numerical study of the structure and vertical transport properties of a tropical convective system
02 p0252 N84-11651

TAPLIN, D. W.
The prediction of field strength in the frequency range 30 - 1000 MHz 15 p2326 N84-24968
TAPPAN, M. W.
Integration of flight test data into a real-time simulation 09 p1259 N84-18216
TARAKANOV, Y. A.
Interpretation of gravitational anomalies on Mars, Venus and Earth 19 p2975 N84-28859
TARAKJI, M. G.
Multi-variate acceptance plans for flexible airport pavements 21 p3345 N84-31220
TARANENKO, V. P.
Utilization of nonlinear properties of IMPATT-diodes in microwave devices (survey) 22 p3569 N84-32603
TARANETS, G. M.
Procedure for calculation of stages with operational direct-current amplifiers 17 p2634 N84-26853
TARASENKO, G. I.
Objectivization of evaluation of speech intelligibility during flights 02 p0261 N84-11713
TARASENKO, V. M.
Hardening alloy surfaces by laser irradiation 24 p3869 N84-34518
TARASEVICH, A. P.
Picosecond parametric optical oscillator with amplification of radiation from tunable semiconductor laser 21 p3487 N84-32097
TARASOV, M. A.
Josephson point contacts noise properties at microwave 22 p3569 N84-32602
TARASOV, V. G.
Method of acceleration of arithmetic calculations 24 p3941 N84-34949
TARASOVA, I. L.
Image identification by method of integral fluctuations 22 p3568 N84-32601
TARASOVA, T. A.
Influence of tropospheric aerosol on integral albedo of cloudy atmosphere. Underlying surface system 17 p2707 N84-27236
TARBELL, S. A.
A compilation of moored current meter data from the western North Pacific. Volume 31, 1980 - 1982
[AD-A134234] 08 p1196 N84-17796
TARDIN, A. T.
Research and applications of data from environmental satellites: Determining parameters and developing interpretation techniques for applications of environmental satellite data
[INPE-3005-NTE/213] 17 p2711 N84-27261
TARLINI, M.
Spinorial relativistic rotator: The transformation from quasi-Newtonian to Minokowski coordinates
[DE84-009091] 20 p3282 N84-30839
TARN, R. B.
Research study for effects of case flexibility on bearing loads and rotor stability
[NASA-CR-171147] 23 p3756 N84-33811
TARNG, S. S.
Advances in GaAs bistable optical devices 14 p2233 N84-24394
Self-defocusing and optical crosstalk in a bistable optical etalon 14 p2234 N84-24403
TARQUINIO, J.
The use of fuel additives to control plume opacity of turbine engine test cells
[AD-A130777] 01 p0053 N84-10339
TARTAGIA, G. P.
Heat transfer for turbulent flow of helium or hydrogen in a tube at high temperatures: Evaluation with the method of Petukhov
[KFK-3593] 07 p1005 N84-16518
TARVER, C. M.
Theoretical modeling of converging and diverging detonation waves in solid and gaseous explosives
[DE83-017300] 04 p0536 N84-13528
TARVIN, J. A.
Experiments and theory on half-harmonic light and 2-plasmon decay
[DE84-008945] 20 p3193 N84-30276
TARZANIN, F. J., JR.
Investigation of the effect of blade sweep on rotor vibratory loads
[NASA-CR-166526] 09 p1256 N84-18196
TASCHEK, R. F.
Status and future of the use of numerical and factual data 07 p1086 N84-17060
TASHJIAN, R.
AFB/open cycle gas turbine conceptual design study
[NASA-CR-168135] 21 p3434 N84-31784
TASK, H. L.
Optical and human performance evaluation of HUD (Head-Up Display) systems design
[AD-A140601] 17 p2588 N84-26587
Measurement of HUD (Head-Up Display) optical quality
[AD-P003158] 17 p2588 N84-26589
Optical effects of F-16 Canopy-HUD (Head-Up Display) integration
[AD-P003222] 17 p2595 N84-26635
Accommodative amplitude and speed measuring instrument
[AD-D011032] 19 p3071 N84-29484
Portable visual function tester
[AD-D011105] 22 p3599 N84-32795
Method of measuring optical properties of a transparency
[AD-D011117] 22 p3658 N84-33188
Method for dynamically recording distortion in a transparency
[AD-D011209] 24 p3902 N84-34707
TASKA, J.
Microwave measurement test results of circular waveguide components for Electron Cyclotron Resonant Heating (ECRH) of the Tandem Mirror Experiment-Upgrade (TMX-U)
[DE84-009538] 19 p3108 N84-29746
Focusing twist reflector for electron-cyclotron resonance heating in the Tandem Mirror Experiment-upgrade
[DE84-012954] 22 p3578 N84-32663
TASKER, M. N.
A review of the basic concepts of dense gas dispersion with special regard to modelling of heat transfer
[QUEL-1512/84] 16 p2487 N84-25952
TASSAN, S.
Remote monitoring of sediments and chlorophyll as traces of pollutant movements in a Mediterranean coastal area 23 p3780 N84-33969
TASSANO, P. L.
Deposition of cesium iodide on papyiene
[DE83-017839] 04 p0605 N84-13992
TASSINARI, R.
Value and competition
[SNIAS-832-501-101] 15 p2416 N84-25504
TASSOULAS, J. L.
Analysis of a high-strength concrete model under biaxial compression
[AD-A137050] 10 p1518 N84-19935
TATA, X.
W decay in supergravity GUTS
[DE83-015144] 02 p0291 N84-11911
TATALIAS, K. D.
Strategic computing and survivability research
[AD-A141717] 19 p3081 N84-29548
TATARA, R. A.
Experimental natural convective studies within a compound parabolic concentrator enclosure
[DE84-006967] 19 p3025 N84-29184
TATARINOV, A. P.
Stressed and strained state of cylindrical shells reinforced with hoops 17 p2651 N84-26952
TATARINOVA, O. N.
Anodic dissolution of transition metal carbides at high current density 24 p3877 N84-34566
TATAUROV, Y. A.
Circulatory dynamics in expeditionary tour of duty 18 p2896 N84-28372
TATE, K.
Seawater hydraulics: Development and evaluation of an experimental diver tool system
[AD-A142032] 19 p3032 N84-29231
TATE, S. E.
The aircraft infrared measurements guide
[AD-A132598] 05 p0747 N84-14905
TATEYAMA, C. E.
The 22 GHz continuum and spectral index maps of the galactic center region
[INPE-3275-PRE/599] 24 p3987 N84-35239
TATKEN, R. L.
Registry of toxic effects of chemical substances. User's guide to the RTECS computer tape
[PB83-223172] 01 p0115 N84-10748
TATOM, F. B.
Atmospheric turbulence simulation for Shuttle orbiter
[NASA-CR-171013] 13 p1938 N84-22602
TATRO, J. S.
Human factors affecting pilot performance in vertical and translational instrument flight
[AD-A139141] 14 p2187 N84-24105
TATSENKO, O. M.
Instability of collapsing cylindrical shell during magnetic energy density 20 p3287 N84-30872
TATSUMOTO, M.
The Lf-Hf evolution of KREEP 11 p1756 N84-21461
TATSUNORI, S.
Electronic 4-wheel drive control device
[NASA-TM-77618] 24 p3910 N84-34764
TATSUOKA, K.
Dimensionality, scoring, and related problems in adaptive testing
[AD-A139849] 15 p2383 N84-25290
TATSUOKA, M.
Dimensionality, scoring, and related problems in adaptive testing
[AD-A139849] 15 p2383 N84-25290
TATTELMAN, P.
Winds: Chapter 6, 1983 revision. Handbook of Geophysics and Space Environments
[AD-A132018] 03 p0410 N84-12683
Handbook of geophysics and space environments, Chapter 15, 1983 revision: Atmospheric temperature, density and pressure
[AD-A138848] 13 p2017 N84-23076
Handbook of geophysics and space environments. Chapter 16: Water vapor, precipitation, clouds and fog, revised
[AD-A144178] 24 p3934 N84-34901
TATULYAN, S. A.
Immediate effects of hyperbaric oxygenation on body oxygen supply 21 p3455 N84-31923
TATUM, J. E.
A study of a two-frequency NMR maser 21 p3408 N84-31615
TAUB, A. I.
Investigation of rapidly solidified Ni3Al-based alloys
[AD-A144174] 24 p3883 N84-34604
TAUBE, D. W.
Correlation of microwave sensor returns with soil moisture 23 p3770 N84-33897
TAUBENBLATT, M. A.
Defects at electrode-oxide and electrode-silicon interfaces in VHSI device structures
[AD-A140814] 17 p2663 N84-26990
TAUBER, M.
Numerical calculation of the transonic potential flow past a cranked wing
[NASA-TM-84391] 01 p0008 N84-10049
TAUBER, M. E.
Comparison of calculated and measured pressures on straight and swept-tip model rotor blades
[NASA-TM-85872] 07 p0947 N84-16143
Aerodynamic predictions II 19 p3098 N84-29681
TAUFFENBACH, H. J.
Measuring and data evaluation systems at the wind test site Pellworm
[GKSS-84-E-12] 23 p3791 N84-34044
TAUSCHER, N.
Process controlled measuring valve acquisition taking example by the noise measuring technique
[PTB-E-25] 16 p2554 N84-26389
TAUSSIG, R.
Investigation of water rotor turbofans for Cruise Missile engines, volume 2
[AD-A131168] 02 p0180 N84-11173
Investigation of wave rotor turbofans for Cruise Missile engines, volume 1
[AD-A131167] 02 p0180 N84-11174
TAUTZ, M. F.
NASCAP simulations of spacecraft charging of the SCATHA satellite 08 p1117 N84-17268
Sheath ionization model of beam emissions from large spacecrafts
[AD-A137181] 10 p1448 N84-19463
Dual maxwellian space plasma modeling by the logarithmic method
[AD-A137131] 10 p1585 N84-20387
Analysis of spacecraft charging, particle beams and geophysical data bases
[AD-A138632] 13 p1940 N84-22616
TAVADYAN, D. S.
Structural distinctions of thyroid C cells and parathyroid glands of primates during head-down hypokinesia 15 p2377 N84-25263
TAVAKOLI, A.
Design and evaluation of a pulsating-flow wind tunnel
[PB84-116086] 09 p1260 N84-18223
TAVARES, M. F. M.
Chemical analysis of ions in rain water in natural regions: Correlations with aerosols in the atmosphere
[INPE-2856-PRE/395] 23 p3792 N84-34052
TAVARES, S. A.
Study of the optimal control problem solving in the Bolza form by the finite element method
[INPE-2750-PRE/326] 04 p0588 N84-13884
Capture of satellite stabilized by gravity gradient with a flexible mast during and after deployment
[INPE-2749-PRE/325] 10 p1436 N84-19383
Introduction to PASCAL language
[INPE-2888-PRE/408] 23 p3814 N84-34182
PASCAL-MP: A language for the algebraic and numerical manipulation of polynomials
[INPE-3057-PRE/477] 23 p3814 N84-34183

TAVENDALE, A. J.
Deep level impurities in germanium and silicon: Low temperature passivation or removal techniques
[DE84-006772] 13 p2048 N84-23286
TAWARA, H.
Cross sections for charge transfers of highly ionized ions in hydrogen atoms
[IPPJ-AM-30] 03 p0443 N84-12912
Bibliography on atomic processes in hot dense plasmas
[IPPJ-AM-29] 03 p0443 N84-12913
Electron capture and loss cross sections for collisions between heavy ions and hydrogen molecules, revised
[IPPJ-AM-28] 03 p0444 N84-12914
Energy dependence of the yields of ion-induced sputtering of monatomic solids
[IPPJ-AM-32] 07 p1076 N84-16992
Proceedings on Symposium on Atomic Collision Data for Diagnostics and Modelling of Fusion Plasmas
[IPPJ-AM-33] 11 p1734 N84-21310
Dependence of the backscattering coefficients of light ions upon angle of incidence
[IPPJ-AM-34] 15 p2409 N84-25459
TAWARI, P. V.
National airspace review benefits and costs
[FAA-AT-84-1] 19 p2961 N84-28765
TAWIL, V.
Analysis of technical possibilities for further sharing of the UHF television band by the land mobile services in the top ten land mobile markets
[PB84-123116] 08 p1148 N84-17470
TAYA, M.
Abstracts of the 20th Annual Meeting: Society of Engineering Science, Incorporated
[AD-A138155] 15 p2306 N84-24833
Impact and fatigue of graphite/epoxy laminates 15 p2310 N84-24862
Stresses in and around double confocal spheroids embedded in infinite media 15 p2314 N84-24883
TAYLOR, A.
High-voltage analytical electron microscopy
[DE83-014318] 01 p0085 N84-10554
TAYLOR, A. H.
Aerospace vehicle
[NASA-CASE-LAR-13155-1] 11 p1624 N84-20628
TAYLOR, A. M. K. P.
Developing flow in S-shaped ducts. 2: Circular cross-section duct
[NASA-CR-3759] 09 p1312 N84-16572
TAYLOR, B. G.
Report on the activities of the Space Science Department
[ESA-SP-1062] 17 p2774 N84-27611
TAYLOR, B. S.
An evaluation of the system 2000 data base management system for use in major item system mapping
[DE84-013130] 21 p3519 N84-32296
TAYLOR, C.
The technology of superconducting accelerator dipoles
[DE83-016470] 02 p0299 N84-11963
LBL program of 1 meter long, 50 mm diameter bore, dipoles with fields greater than 8 tesla
[DE84-002902] 07 p1073 N84-16973
TAYLOR, D. H.
Factory splicing of optical waveguide fiber 11 p1720 N84-21222
TAYLOR, D. R.
Development of a HgCdTe photomixer and impedance matched GaAs FET amplifier
[NASA-CR-170608] 02 p0213 N84-11390
TAYLOR, E. W.
Optical methods of measuring loudspeaker diaphragm movement
[BBC-RD-1983/13] 04 p0517 N84-13396
Space environment effects on fiber optics systems 15 p2279 N84-24689
The acoustic design of outside broadcast vehicles
[BBC-RD-1984/3] 21 p3381 N84-31454
TAYLOR, G. D.
Studies of Chebyshev spectral methods and multigrid methods
[AD-A142014] 20 p3245 N84-30596
TAYLOR, G. E.
A climatology of synoptic scale atmospheric structure prior to severe convective storms 02 p0253 N84-11653
TAYLOR, G. J.
Primitive meteorites: Where do they come from and how do they form? 11 p1755 N84-21458
TAYLOR, J. D.
Cryogenic testing of the TPC superconducting solenoid
[DE84-000528] 04 p0527 N84-13467
Forced two-phase cooling of the TPC superconducting solenoid
[DE83-017749] 04 p0613 N84-14049
TAYLOR, J. H.
The GOES X-ray imager feasibility demonstration
[PB84-111970] 09 p1319 N84-18614
TAYLOR, J. I.
Accident surrogates for use in analyzing highway safety hazards, volume 2
[PB84-174747] 16 p2478 N84-25884
Accident surrogates for use in analyzing highway safety hazards. Volume 3: Appendices A-G
[PB84-174754] 16 p2478 N84-25885
TAYLOR, J. M.
A guide for disposition of radioactive material sources
[DOE/EP-0088] 23 p3824 N84-34251
TAYLOR, J. W.
Implementation and evaluation of a core graphics system on a VAX 11/780 computer with a UNIX operating system
[AD-A138406] 12 p1882 N84-22271
TAYLOR, L. W., JR.
Spacecraft control research at NASA 15 p2266 N84-24604
TAYLOR, M. S.
Fluoroether modified epoxy composites
[NASA-CASE-ARC-11418-1] 02 p0187 N84-11213
TAYLOR, N. L.
Current and future graphics requirements for LaRC and proposed future graphics system
[NASA-TM-85726] 18 p2917 N84-28495
TAYLOR, P. A.
Growth and decay of one-dimensional shock waves in chemically reacting multiphase mixtures
[DE83-011134] 01 p0080 N84-10519
Monte Carlo simulation of shock-induced lattice damage
[DE83-015189] 01 p0154 N84-11016
TAYLOR, P. B.
Study of the FAA (Federal Aviation Administration) program to modernize maintenance operations
[AD-A142295] 20 p3125 N84-29848
TAYLOR, P. K.
Surface and atmospheric boundary layer. Observations from ships, appendix D 18 p2884 N84-28299
TAYLOR, P. L.
Statistical-mechanical study of polyvinylidene fluoride
[AD-A143040] 21 p3370 N84-31383
TAYLOR, P. T.
Mapping magnetized geologic structures from space: The effect of orbital and body parameters
[E84-10191] 22 p3614 N84-32895
TAYLOR, R.
Bidirectional fiber optic cable adapter
[AD-A133371] 06 p0824 N84-15370
TAYLOR, R. C.
Hoop/column antenna RF verification model. Volume 2: Analysis and correlation
[NASA-CR-172413] 21 p3382 N84-31462
TAYLOR, R. D.
Metastable complexes of helium-hydrogen isotopes
[DE84-009995] 21 p3496 N84-32160
TAYLOR, R. E.
Thermophysical property determination using transient techniques
[AD-A130707] 01 p0156 N84-11027
Specific heat of octahydro-1,3,5,7tetranitro-1,3,5,7-tetrazocine (HMX)
[AD-A134564] 07 p0966 N84-16260
Navigation system and method
[NASA-CASE-GSC-12508-1] 13 p1929 N84-22546
TAYLOR, R. G.
Hoop/column antenna: RF verification model. Volume 1: Test results
[NASA-CR-172412] 21 p3382 N84-31463
TAYLOR, R. J.
Human reactions to transient electric currents, volume 8
[PB84-112895] 08 p1202 N84-17834
Hazard analysis for magnetic induction from electric transmission lines
[PB84-125236] 10 p1473 N84-19619
TAYLOR, R. L.
Further considerations in models of rough surface scattering
[AD-A130424] 01 p0146 N84-10962
Introduction to GEMINI
[DE84-005058] 10 p1564 N84-20248
Solution techniques in finite element analysis
[AD-A139552] 14 p2158 N84-23931
Training decision-makers to be creative: A management process model
[AD-P003347] 18 p2912 N84-28466
An integrated, optimization-based approach to the design and control of large space structures
[AD-A141856] 19 p2982 N84-28896
TAYLOR, R. P.
Generalized roughness effects on turbulent boundary layer heat transfer. A discrete element predictive approach for turbulent flow over rough surfaces
[AD-A141943] 20 p3183 N84-30227
A discrete element prediction approach for turbulent flow over rough surfaces 23 p3746 N84-33744
TAYLOR, S. R.
Continental crustal composition and lower crustal models 11 p1680 N84-20965
TAYLOR, T. H.
Autonomous omnidirectional spacecraft antenna system
[NASA-CR-175128] 18 p2832 N84-27980
TAYLOR, T. R.
The programming and validation of the computerised version of the intermediate mental alertness test
[CSIR-PERS-303] 04 p0573 N84-13776
TAYLOR, T. T.
Qualifications of ultrasonic testing for nuclear inservice inspection applications
[DE84-011899] 20 p3200 N84-30323
TAYLOR, W.
Severe storm electricity 24 p3927 N84-34860
TAYLOR, W. E.
Solar cell metallization: Historical perspective 12 p1838 N84-21981
TAYLOR, W. W. L.
Space plasma high-voltage drainage experiment (A0054) 15 p2274 N84-24655
TAZOV, G. V.
Criteria for accuracy of rotary transformers 17 p2635 N84-26857
TCHEN, C. M.
Group-kinetic scaling as a basis for modeling large scale turbulence 24 p3926 N84-34848
TEAGAN, W. P.
Catalog of selected heavy duty transport energy management models
[NASA-CR-168299] 05 p0761 N84-14991
TEAGUE, C. C.
Multifrequency HF radar observations of currents and current shears
[AD-A131528] 01 p0067 N84-10439
TEAGUE, E. C.
Flexure hinge
[PB84-178557] 20 p3199 N84-30319
TEAGUE, W.
Hydrographic measurements in the western Arboran Sea, October 1982
[AD-A143588] 22 p3627 N84-32985
TEAL, G. A.
Space Shuttle main engine powerhead structural modeling, stress and fatigue life analysis. Volume 1: Gasdynamic environment of the SSME HPFTP and HPOTP turbines
[NASA-CR-170999] 11 p1625 N84-20635
Space Shuttle main engine powerhead structural modeling, stress and fatigue life analysis. Volume 2: Dynamics of blades and nozzles SSME HPFTP and HPOTP
[NASA-CR-171000] 11 p1625 N84-20636
Space Shuttle main engine powerhead structural modeling, stress and fatigue life analysis. Volume 3: Stress summay of blades and nozzles at FPL and 115 percent RPL loads. SSME HPFTP and HPOTP blades and nozzles
[NASA-CR-171001] 11 p1625 N84-20637
Space Shuttle main engine, powerhead structural modeling, stress and fatigue life analysis. Volume 4: Summary of investigation of unscheduled events and special tasks
[NASA-CR-171002] 11 p1625 N84-20638
TEBBS, B.
Application of remote sensing to state and regional problems
[E84-10128] 14 p2168 N84-23986
TEBOULLE, M.
The duality between expected utility and penalty in stochastic linear programming
[AD-A141393] 19 p3075 N84-29513
TEDROW, P. M.
Synthesis and characterization of superconducting electronic materials
[AD-A144137] 24 p3966 N84-35116
TEE, K.
Distributed estimation systems
[AD-P002898] 13 p1980 N84-22857
TEEGAN, U.
Evaluation and analysis of experience reports concerning wind shear problems
[DFVLR-FB-83-19] 07 p0949 N84-16159
Pilot-aircraft interaction concerning a wind shear indication system 17 p2588 N84-26586

TEEGARDEN, B. J.
Development of a segmented n-type germanium detector, and its application to astronomical gamma-ray spectroscopy
[NASA-TM-85435] 03 p0461 N84-13039
The spectral properties of gamma-ray bursts: A review of recent development 09 p1406 N84-19189
Frequency of fast, narrow gamma-ray bursts and burst classification 09 p1407 N84-19190
The rapidly moving telescope: An instrument for the precise study of optical transients 09 p1407 N84-19193
Two probable optical flashes from gamma-ray bursters
[NASA-TM-86126] 21 p3526 N84-32337
Three precise gamma-ray burst source locations
[NASA-TM-86132] 22 p3680 N84-33332

TEGLAS, R.
Legendre-tau approximation for functional differential equations. Part 2: The linear quadratic optimal control problem
[NASA-CR-172397] 20 p3280 N84-30818

TEICHERT, K.
Contributions towards analytical chromatography
[BLL-M-29666-(5828.4)] 24 p3880 N84-34579

TEICHERT, W. P.
Cleavage of aromatic carbon-carbon bonds
[DE84-010161] 22 p3543 N84-32432

TEITLER, S.
An alternative approach to quantum statistics
[AD-A131525] 01 p0137 N84-10899
An entropy maximum principle and instantaneous failure statistics
[AD-A143299] 22 p3607 N84-32851
An entropy maximum principle and relaxation phenomena
[AD-A143531] 22 p3668 N84-33250

TEIXEIRA, A. L. P.
Adaptation and arrangements for transparency microfilming
[INPE-2831-PRE/382] 02 p0222 N84-11454

TEIXEIRA, N. R.
Maximum entropy spectral analysis of total zone
[INPE-2979-PRE/441] 07 p1032 N84-16694
Low latitude F-region studies using the OI6300 angstrom and 7744 angstrom nightglow measurements at Cachoeira Paulista, Brazil
[INPE-3025-PRE/463] 12 p1847 N84-22040

TEJEDOR, C.
Electronic properties of semiconductor interfaces
[AD-A130745] 01 p0152 N84-11002

TEKIN, A. R.
Selection of a mineral-base lubricant for the cold rolling of aluminum strip 15 p2401 N84-25412

TEKSHEV, V. B.
Two-stage regenerative microwave amplifiers with reduced nonlinear distortions 17 p2638 N84-26878

TELEGIN, G. G.
Experiments in development of powerful dye laser 21 p3486 N84-32095

TELEGIN, G. V.
Altitudinal change in continuous absorption in atmospheric transparency window 8-12 microns 11 p1670 N84-20901

TELESMAN, J.
Review of the effects of microstructure on fatigue in aluminum alloys
[NASA-TM-83626] 13 p1960 N84-22735
Evaluation of the effect of crack closure on fatigue crack growth of simulated short cracks
[NASA-TM-83778] 21 p3365 N84-31348

TELEZHNYY, B. G.
Concerning criteria for evaluation of amplitude-frequency characteristic of two-signal selectivity of radio reception channel 17 p2633 N84-26846

TELICH, M. L.
Cold working and annealing effects on the creep and rupture resistance of the oxide-dispersion-strengthened alloy MA754
[AD-A141438] 19 p2993 N84-28969

TELIONIS, D. P.
Design and evaluation of a pulsating-flow wind tunnel
[PB84-116086] 09 p1260 N84-18223
Heat transfer in oscillatory flow
[DE84-005193] 10 p1494 N84-19768
Three-dimensional laminar separation
[AD-A140378] 16 p2493 N84-25993

TELLE, J. M.
Efficient forward conversion in a Raman generator
[DE84-007466] 20 p3194 N84-30285

TELLEFSEN, M.
Homogeneity and magnetic susceptibility in some substituted cadmium spinels
[AD-A135297] 08 p1131 N84-17357

TELLINGHUISEN, J.
Spectroscopic studies of lasing transitions in the diatomic mercury halides
[AD-A131466] 02 p0226 N84-11481

TEMANSON, G. E.
Measurements of the fuel mileage of a KC-135 aircraft with and without winglets 18 p2787 N84-27690

TEMIRKHANOV, T. E.
Method of acceleration of arithmetic calculations 24 p3941 N84-34949

TEMNOV, A. N.
Free oscillations of ideal stratified fluid in container 21 p3480 N84-32058

TEMPESTA, P.
Multi-parametric data acquisition system with DC11-C interface towards PDP 11/34
[DE82-906300] 02 p0275 N84-11798

TEMPLE, J. H.
The ISPM solar-wind plasma experiment 09 p1261 N84-18231

TEMPLETON, G. H.
Biochemical and histochemical adaptations of skeletal muscle to rat suspension 09 p1354 N84-18849

TEMPLETON, W. L.
Low-level radioactive waste disposal in the oceans
[DE83-013367] 01 p0145 N84-10956

TEMPS, F.
Investigations of radical-radical reactions using a far infrared Laser Magnetic Resonance (Fir-LMR) spectrometer
[MPIS-4/1983] 13 p1958 N84-22730
Detection of NH-2O-radicals by far-infrared laser magnetic resonance spectroscopy
[MPIS-6/1984] 20 p3151 N84-30010

TEN, V. N.
Development of an alloy with high damping properties
[BLL-M-35211-(5828.4)] 01 p0041 N84-10260

TENCATE, J. A.
Nonlinear Interaction of two noncollinear sound waves in a rectangular waveguide
[AD-A144440] 24 p3895 N84-34666

TENEKETZIS, D.
On the interactions of incentive and information structures
[DE83-012084] 04 p0616 N84-14065
Informational aspects of a class of subjective games of incomplete information
[AD-P002910] 13 p1981 N84-22862

TENHAVE, A. A.
Helix and Felix: Loading standards for use in the fatigue evaluation of helicopter rotor components
[NLR-MP-82041-U] 06 p0787 N84-15149

TENHAVEN, U.
Development, production and marketing of a temporarily protected blackplate (TPP)
[BMFT-FB-T-83-195] 10 p1463 N84-19555

TENNANT, A. F., JR.
Rapid X-ray variability of active galaxies
[NASA-TM-85101] 01 p0165 N84-11082

TENNERY, V. J.
Status, needs, and opportunities for structural ceramics in advanced heat engines
[DE84-003307] 09 p1289 N84-18413

TENNEY, J. B., JR.
Prosthetic occlusive device for an internal passageway
[NASA-CASE-MFS-25740-1] 02 p0265 N84-11744
Development and marketing of a prosthetic urinary control valve system
[NASA-CR-170994] 12 p1867 N84-22168

TENNEY, R. R.
Proceedings of the 6th MIT/ONR (Massachusetts Institute of Technology/Office of Naval Research) Workshop on C3 (Command, Control, and Communications) Systems
[AD-A138614] 13 p1977 N84-22835
A framework for evaluation of surveillance algorithms
[AD-P002901] 13 p1981 N84-22859

TENNYSON, P. D.
The diffuse ultraviolet background: 1700 - 2900 Angstroms 16 p2576 N84-26534

TENNYSON, R. C.
Computation of influence of defects on static and fatigue strength of composites 01 p0034 N84-10217
The effect of space environment exposure on the properties of polymer matrix composite materials (A0180) 15 p2272 N84-24644
An atomic oxygen facility for studying polymer materials for spacecraft applications 24 p3863 N84-34482

TEOH, W.
Orbital maneuvering vehicle simulation system on-board processing logic 06 p0931 N84-16052
OMV: A simplified mathematical model of the orbital maneuvering vehicle
[NASA-CR-171123] 20 p3134 N84-29902

TEPER, M.
Methanol production from natural gas or coal
[DE83-901909] 01 p0053 N84-10340

TEPPER, B.
Experimental evaluation of a high frequency radio data terminal in the ship-shore mode
[CRC-1375] 21 p3382 N84-31458

TERADA, S.
Neutrino-oscillation experiments at Brookhaven National Laboratory
[DE83-018275] 04 p0528 N84-13476

TERAESRANTA, H.
Solar rotation rate determined from millimeter data 09 p1413 N84-19247
Measurements of the solar 160 min oscillation at the Metsaehovi radio research station in 1980-1982 and comparison with the results at the Crimean Astrophysical Observatory
[REPT-S-138] 09 p1416 N84-19268
Improved computer programs for microwave Sun observation at the Metsaehovi radio research station
[REPT-S-140] 09 p1417 N84-19269

TERBRAAK, C. J. F.
DISCRIM: A modification of TWINSPAN (Hill, 1979) to construct simple discriminant functions and to classify attributes, given a hierarchial classification of samples 17 p2756 N84-27493
Differential weights for samples and attributes in the ordination program DECORANA and the classification program TWINSPAN (Hill, 1979) 17 p2756 N84-27494

TEREKHOV, A.
Comment on direct television broadcast by satellite 09 p1265 N84-18260

TERELAK, J.
Some psychological consequences of prolonged social isolation 15 p2376 N84-25257

TERENTYEV, V. F.
Influence of laser hardening on mechanical properties of type 45 steel 24 p3873 N84-34546
Relationship of structure with cyclic crack resistance of Alpha-titanium alloys 24 p3875 N84-34557

TEREPING, A. A.
Perception of binaural temporal shifts 18 p2898 N84-28387

TERESCENKO, L. J.
Method of production of nitrophosphates
[CSIR-TRANS-1689] 01 p0036 N84-10225

TERGEIST, P.
Increase of worker autonomy at the industrial work place as shown in three humanization projects in Sweden, in Great Britain and in the USA
[BMFT-FB-HA-83-031] 16 p2564 N84-26453

TERIELE, H. J. J.
A comparative survey of numerical methods for the linear generalized Abel integral equation
[MC-NW-155/83] 07 p1065 N84-16915
Perfect numbers and aliquot sequences 08 p1224 N84-17996
Numerical computation of special zeros of partial sums of Riemann's zeta function 08 p1225 N84-18005
The first 200,000,001 zeros of Riemann's zeta function 08 p1225 N84-18006
New very large amicable pairs
[MC-NW-153/83] 14 p2215 N84-24303

TERLEVICH, R.
The role of the Automated Plate Measuring (APM) machine in developing a program to discover QSOs automatically 18 p2843 N84-28054

TERMAN, C. J.
Simulation tools for digital LSI (Large Scale Integration) design
[AD-A136116] 09 p1369 N84-18938

TERMAN, D.
Directed graphs and traveling waves
[AD-A132861] 05 p0738 N84-14845

TERMINI, S.
In the labyrinth of many valued logics
[AD-P002331] 14 p2190 N84-24122

TERNOVOY, Y. F.
Experimental study of powder production process using centrifugal atomization 12 p1785 N84-21644

TERON, J. L.
Modeling of elastic wave propagation by finite difference and finite element methods 23 p3777 N84-33944

TERPSTRA, A. P.
Inertial-optical attitude determination and model following control of maneuvering spacecraft 15 p2267 N84-24613
Inertial-optical attitude determination and model following control of maneuvering spacecraft
[NLR-MP-83053-U] 17 p2616 N84-26742

TERREL, R. L.
Sulfur extended asphalt pavement evaluation in the State of Washington: SR 270 highway pavement performance report
[PB83-205567] 01 p0058 N84-10380
TERRELL, J.
Ten years of Vela X-ray observations
[DE84-001302] 07 p1094 N84-17114
TERRELL, W. R.
The design and production of a procedure training aid using the procedure learning format and the computer automated page layout (PLA) routine
[AD-A139988] 15 p2383 N84-25292
TERRIAN, D. M.
A laboratory comparison of portable cooling systems for workers exposed to two levels of heat stress
[AD-A131848] 03 p0372 N84-12423
TERRILE, R. J.
Short time-scale surface changes on Io
13 p2075 N84-23447
TERRY, P. W.
Impact of clumps on plasma stability and the nature of turbulence in a saturated state
[DE83-012927] 01 p0149 N84-10980
TERRY, R. E.
Alternate implosion models for the plane parallel diode
[AD-A131275] 02 p0295 N84-11937
TESAR, J. S.
Surface acoustic admittance and absorption of highly porous, layered, fibrous materials
17 p2762 N84-27545
Acoustic structure and propagation in highly porous, layered, fibrous materials 17 p2762 N84-27546
TESCHER, E. L.
Experimental investigation of elastic mode control on a model of a transport aircraft
[NASA-CR-3472] 18 p2792 N84-27721
TESCHNER, M.
On the genesis of hydrocarbons in the German Alpine foreland
[BMFT-FB-T-83-103] 02 p0250 N84-11637
TESHIMA, K.
Visualization for a free jet by a laser induced fluorescence method and its structure 20 p3169 N84-30120
TESKE, M. E.
Computer program for prediction of the deposition of material released from fixed and rotary wing aircraft
[NASA-CR-3780] 11 p1600 N84-20482
Numerical studies of the deposition of material released from fixed and rotary wing aircraft
11 p1602 N84-20491
TESSMER, J. M.
A technique to approximate complex computer models: An approximation of the Teisberg Model
[AD-P003855] 24 p3940 N84-34940
TESTA, M.
Canonical commutation relations and Gauss' law in the temporal gauge
[PREPRINT-360] 23 p3819 N84-34216
Local and global integrability of anomalous ward identities
[PREPRINT-364] 23 p3819 N84-34217
TESTER, B. J.
A review of source location/assessment techniques
06 p0767 N84-15029
TESTER, J. R.
Vertebrate behavior and ecology
[DE84-007318] 20 p3257 N84-30673
TESTER, J. W.
Economics of a conceptual 75 MW hot dry rock geothermal electric power station
[DE83-015926] 20 p3236 N84-30539
Using chemically reactive tracers to determine temperature characteristics of geothermal reservoirs
[DE84-011373] 20 p3242 N84-30580
TETERS, L. R.
Estimating the performance of telecommunication systems using the ionospheric transmission channel. Ionospheric communications analysis and prediction program user's manual
[PB84-111210] 08 p1147 N84-17468
TETSUKA, T.
Start-up and quasi-stationary drive of plasma current by lower hybrid wave in the JPII T-IIU Tokamak
[IPPJ-667] 15 p2409 N84-25461
Impurity origin during ICRF heating in JIPP T-IIU Tokamak
[IPPJ-682] 23 p3827 N84-34271
TETZLAFF, G.
Albedo of the Sahara 10 p1534 N84-20052
Meteorological measurements in the Northern German coastal area for wind energy prospection
[BMFT-FB-T-84-017] 16 p2529 N84-26241
German-Argentinian R and D project for the utilization of wind energy
[BMFT-FB-T-84-080] 20 p3237 N84-30549
TEUBER, D.
Experiences with a PDS 2020 GM
18 p2840 N84-28028
TEVELDE, J. A.
Heat transfer and thermal stability of alternative aircraft fuels, volume 1
[AD-A137404] 10 p1469 N84-19597
Heat transfer and thermal stability of alternative aircraft fuels. Volume 2: Appendices
[AD-A137405] 10 p1469 N84-19598
Alternative fuel deposit formation
15 p2289 N84-24735
TEW, R. C., JR.
Downsizing assessment of automotive Stirling engines
[NASA-TM-83468] 05 p0761 N84-14989
Comparison of free-piston Stirling engine model predictions with RE1000 engine test data
[NASA-TM-83650] 14 p2249 N84-24509
TEWALT, S. J.
Estimation of uncertainty in coal resources
[DE83-902538] 03 p0401 N84-12620
TEWARSON, A.
Combustibility of electrical wire and cable for rail rapid transit systems. Volume 1: Flammability
[PB83-233742] 02 p0217 N84-11420
TEXEIRA, P. D.
Laser ballistic sensor development
[AD-A140427] 17 p2671 N84-27026
TEXEL, P. P.
The US Army model Ada (trademark) training curriculum
[AD-P003415] 20 p3269 N84-30747
The CECOM summer faculty research program
[AD-P003421] 20 p3270 N84-30753
TEXTER, S.
Lower hybrid experiments at the 1 MW level on Alcator C: Heating and current drive
[DE84-010586] 20 p3304 N84-30981
THACKER, S. S.
FY 1983 scientific and technical reports, articles, papers and presentations
[NASA-TM-82547] 05 p0759 N84-14974
THACKRAY, R. I.
Rate of initial recovery and subsequent radar monitoring performance following a simulated emergency involving startle
[AD-A133602] 06 p0892 N84-15795
THADATHIL, J.
Optimization methods in hierarchical holographic modeling 16 p2494 N84-26001
THAKKER, A. B.
Low strain, long life creep fatigue of AF2-1DA and INCO 718
[NASA-CR-167989] 01 p0042 N84-10268
THAKOOR, A.
Corrosion resistant coating
[NASA-CASE-NPO-15928-1] 03 p0352 N84-12289
THALL, R. M.
Configuration management with the Ada (trademark) language
[AD-P003416] 20 p3269 N84-30748
THALLER, L. H.
Some comments on longevity by a technologist
03 p0346 N84-12247
Electrochemical storage 19 p3048 N84-29342
THAMES, M.
Penn State Get Away Special
18 p2799 N84-27759
THANDERZ, M. A.
Report on an information trip to Holland, August - September 1983
[FOA-C-59006-H2] 10 p1592 N84-20431
The military aircrew work environment
[FOA-A-59005-H1-H2] 18 p2915 N84-28490
THANING, L.
A model for simulation of a fluctuating plume
[FOA-C-40165-A1(C1)] 08 p1188 N84-17741
THARALDSON, R. A.
An NMR study of solid hydrogen using packer solid echoes and rotating reference frame relaxation
06 p0922 N84-15992
THARP, H. S.
A numerical algorithm for chained aggregation and modified chained aggregation
[AD-A142394] 20 p3280 N84-30822
THART, W. G. J.
Fracture toughness and corrosion properties of the aluminum plate alloys 7010-T651 and 7150-T6E189
[NLR-TR-82125-U] 15 p2296 N84-24781
Effect of cooling rate on corrosion properties and microstructure of high strength aluminum alloys
[NLR-TR-82105-U] 15 p2297 N84-24783
THATCHER, J. B.
Design of a precision etalon position control system for a cryogenic spectrometer 15 p2348 N84-25093
THATHACHAR, Y. T.
Fabrication and properties of multilayer structures
[AD-A131934] 03 p0451 N84-12969
THAXTER, J. B.
Tunneling through amorphous silicon barriers
[AD-A135866] 09 p1395 N84-19110
THAYER, A. E.
A modified standard method for the determination of ozone residual concentration by spectrophotometry
[PB84-204684] 21 p3363 N84-31335
THAYER, E. B.
Thrust Reverser/Exhaust nozzle assembly for a gas turbine engine
[AD-D011101] 22 p3537 N84-32392
THAYER, G. R.
Assessment of fuel cell propulsion systems
[DE84-006323] 15 p2420 N84-25536
THAYER, W.
Investigation of wave rotor turbofans for Cruise Missile engines, volume 1
[AD-A131167] 02 p0180 N84-11174
THEATRE, J.
Remote sensing and topographic maps
03 p0398 N84-12600
THEBAUD, L. R.
Lidar remote sensing of internal waves and optical properties 06 p0871 N84-15670
THEDY, J. L. O.
Identification and estimation of the area planted with irrigated rice based on the visual interpretation of LANDSAT MSS data
[E84-10164] 17 p2710 N84-27256
THEEDE, E.
Incentives for product quality need contract, cost, production and field co-operation
[AD-P002819] 13 p2061 N84-23364
THEILEN-WILLIGE, B.
Comparative geologic analysis of LANDSAT and Schuttle Imaging Radar (SIR)-A images of the Adrar des Iforas area in NE Mali 23 p3769 N84-33895
THEILIG, E.
The 1950 sulfur flow of Mauna Loa: Considerations for Io 13 p2080 N84-23479
Ridges on basalt flows 13 p2081 N84-23484
THEIMER, O. H.
Speed-dependent collision effects on radar back-scattering from the ionosphere
[NASA-CR-173077] 03 p0359 N84-12336
THEIS, S. W.
Development of visible/infrared/microwave agriculture classification and biomass estimation algorithms, volume 2
[E84-10059] 06 p0864 N84-15629
Correlation of microwave sensor returns with soil moisture 23 p3770 N84-33897
Utilization of active microwave roughness measurements to improve passive microwave soil moisture estimates over bare soils 23 p3770 N84-33898
THEISS, J.
Electromagnetic levitation coil fabrication technique for MSFC containerless processing facilities
[NASA-TM-82565] 09 p1306 N84-18535
THELIN, B.
An explanation of the spectral seasonal variations in the night airglow emissions
[KGI-PREPRINT-066] 18 p2880 N84-28288
THEMELIS, M. P.
Materials, Processes and Testing Laboratory. Summarizing module performance at MIT Lincoln Laboratory experimental photovoltaic test sites, 1977 - 1982
[DOE/ET-20279/188] 16 p2512 N84-26122
THENHAUS, P. C.
Summary of workshops concerning regional seismic source zones of parts of the conterminous United States convened by the US Geological Survey 1979 - 1980, Golden, Colorado
[USGS-CIRC-898] 14 p2174 N84-24025
THEODOSIOU, G.
Calorimetry at L = 10/sup 33
06 p0913 N84-15931
THEODOSIOU, G. E.
Scintillators and waveshifters for fast scintillator-WSB calorimetry 06 p0913 N84-15929
THERIAULT, D. G.
Issues in the design and implementation of Act2
[AD-A132326] 04 p0580 N84-13826
THERRIEN, A. E.
Characterization of submerged-arc and gas-metal-arc weldments in hY-100 steel
[AD-A141939] 20 p3196 N84-30298
THERRIEN, C. W.
Multi-dimensional signal processing research program
[AD-A141273] 18 p2917 N84-28497

THESEN, A.
An efficient generator of uniformly distributed random deviates between zero and one
[AD-A132851] 05 p0741 N84-14865
Some efficient random number generators for micro computers
[AD-A134558] 07 p1053 N84-16815
Some experiences with gasp-like microcomputer simulation languages in FORTRAN, Pascal, and Ada
[AD-A134543] 07 p1055 N84-16832
THEUNE, D. W.
A microcomputer based general linear programming optimization package
[AD-A137506] 10 p1557 N84-20198
THEUNERT, S.
Meteorological measurements in the Northern German coastal area for wind energy prospection
[BMFT-FB-T-84-017] 16 p2529 N84-26241
THIBADEAU, R.
Automatic inspection for printed wiring
[AD-A133328] 06 p0854 N84-15566
THIBAULT, P. A.
Influence of diluents and inhibitors on detonations
[DE84-006300] 22 p3548 N84-32463
THIDE, B.
Observations of stimulated electromagnetic emissions during ionospheric heating experiments
05 p0635 N84-14179
First observations of 140 MHz plasma line backscatter during healthy experiments at Tromsoe
[UIO-SR-84-02] 20 p3243 N84-30588
THIEBERGER, P.
Improved four-stage accel-decel production of low-energy stripped heavy ions
[DE83-005791] 06 p0910 N84-15908
THIEL, E. D.
Space applications of Automation, Robotics And Machine Intelligence Systems (ARAMIS). Volume 3, phase 2: Executive summary
[NASA-CR-3736] 01 p0089 N84-10582
Space Applications of Automation, Robotics and Machine Intelligence Systems (ARAMIS), phase 2. Volume 1: Telepresence technology base development
[NASA-CR-3734] 01 p0089 N84-10583
Space Applications of Automation, Robotics and Machine Intelligence Systems (ARAMIS), phase 2. Volume 2: Telepresence project applications
[NASA-CR-3735] 01 p0090 N84-10584
THIEL, J.
Results from wave injection experiments on the Porcupine rocket 05 p0635 N84-14175
Project Porcupine: The MF mutual impedance probe experiment. Part 1: Flight F2 (March 1977)
[CRPE-NT-93-VOL-1] 05 p0705 N84-14624
Project Porcupine: The MF mutual impedance probe experiment. Part 2: Flights F3 and F4 (March 1979)
[CRPE-NT-94-VOL-2] 05 p0705 N84-14625
THIEL, P. A.
Vibrational spectra of CO on Ni(100) studied by infrared emission spectroscopy
[DE84-009246] 21 p3362 N84-31327
THIELE, B. A.
Contribution ot the high temperature deformation behavior of the austenitic steel 1.4981 after neutron irradiation
[JUEL-1904] 23 p3720 N84-33584
THIELE, H. M.
Growian rotorblades: Production development, construction and test
[BMFT-FB-T-83-111] 02 p0233 N84-11526
Construction of two wind turbines AEROMAN 11/11 for Indonesia
[BMFT-FB-T-83-143] 03 p0384 N84-12505
Growian rotor blades: Production development, construction and test
[NASA-TM-77479] 19 p2965 N84-28793
THIELEN, G. J.
A quality improvement strategy for systems acquisition
[AD-P002820] 13 p2061 N84-23365
THIELEN, H.
Reduction of the strut radiation of reflector antennas
[FI-454-TBR-35] 16 p2482 N84-25918
THIELMAN, G.
Preliminary study for the modeling of an artificial icing cloud
[AD-A135717] 09 p1349 N84-18813
THIEME, G.
Attitude control on large flexible spacecraft
15 p2268 N84-24620
THIEME, H. R.
On the stability of the cell size distribution
[MC-TW-242/83] 07 p1065 N84-16907
THIEME, N. S.
Comparison of qualitative and quantitative measurements of temperature turbulence with monostatic sodar 18 p2865 N84-28188
THIESSEN, H. A.
High-Q perpendicular-biased ferrite-tuned cavity
[DE83-017291] 04 p0529 N84-13478
ARCHSIM: A proton-synchrotron tracking program, including longitudinal space charge
[DE84-001335] 04 p0599 N84-13952
THIGPEN, L.
On setting up boundary conditions for soil-structure interaction problems with DYNALK (a ling from TENSOR to DYNA3D)
[DE83-016914] 02 p0206 N84-11344
THIJS, W.
Fault management 20 p3264 N84-30709
THIMMESCH, D.
Integral inverter/battery charger for use in electric vehicles
[NASA-CR-168177] 07 p1088 N84-17073
THIO, Y. C.
Results from an experimental railgun system: ERGS-1A
[MRL-R-875] 05 p0743 N84-14879
Experimental electromagnetic launchers at MRL
[MRL-R-894] 08 p1150 N84-17482
THIPPS, W.
Engineering and technical services to improve reliability and maintainability of instrument landing system components
[DOT/FAA/PM-84/7] 11 p1604 N84-20503
THISSEN, D.
A response model for multiple choice items
[AD-A139398] 14 p2214 N84-24297
THISTLE, D.
Research in oceanography
[AD-A139890] 15 p2373 N84-25237
THIVET, R.
Multipath pyrotechnic relay: Conception with numerical simulations and experimental validation
[SNIAS-832-422-101] 16 p2474 N84-25855
Combustion of redox mixes in the Through Bulkhead Initiator (TBI) configuration
[SNIAS-841-422-115] 21 p3363 N84-31332
THODAY, R. D. C.
Aerials for use in television outside broadcasts
[BBC-RD-1983/12] 05 p0665 N84-14373
THODE, L. E.
Microwave generators: Oscillating virtual cathodes and reflexing electrons
[DE84-001346] 04 p0522 N84-13433
Pulsed-power diode generation of high-power microwaves
[DE84-001344] 04 p0523 N84-13440
Filamentation instability associated with a relativistic beam and a finite-temperature, collisional plasma
[DE84-002303] 05 p0750 N84-14928
THODE, W. F.
Evaluation of eye movement training for Navy pilots
[AD-A139489] 14 p2185 N84-24091
THODOS, G.
Experimental natural convective studies within a compound parabolic concentrator enclosure
[DE84-006967] 19 p3025 N84-29184
THOE, R. S.
Method and apparatus for enhancing microchannel plate data
[DE84-014498] 24 p3899 N84-34690
THOERNGREN, E.
Apparatus for the determination of ion drift in MIS structures
[FOA-C-30360-E1] 23 p3831 N84-34301
THOLEN, A. D.
Report of the 68th National Conference on Weights and Measures 1983
[PB84-110998] 08 p1141 N84-17425
THOMA, G.
Videodisc premastering facility: Technical evaluation
[PB84-135821] 11 p1661 N84-20840
THOMA, R. J.
A twisted P-C double bond: Synthesis and structure of a (Methylene)phosphine Fe-CO-4 complex
[AD-A141502] 19 p2984 N84-28907
THOMAS, A. M.
Operational applications of military test ranges in space transportation system programs
[AD-A132535] 04 p0490 N84-13217
THOMAS, B. T.
The effect of the solar field reversal on the modulation of galactic cosmic rays 03 p0471 N84-13101
THOMAS, D. M.
Government - contractor interaction
[AD-P002768] 13 p2053 N84-23315
Procedures for signal reconstruction from noisy phase
[AD-A142185] 19 p3016 N84-29120
THOMAS, E. L., JR.
Unified database development program
[AD-A140309] 16 p2567 N84-26471
THOMAS, E. R.
Shuttle orbiter main propulsion system hardware development and certification for flight
20 p3135 N84-29907
THOMAS, F.
Analogies between control mechanisms in flight guidance and medicine 17 p2744 N84-27420
THOMAS, F. H.
Cost effectiveness of reliability in the aerospace industry
[PNR-90187] 13 p1999 N84-22971
SIRE: An integrated reliability and cost model for the aerospace industry
[PNR-90192] 13 p1999 N84-22972
THOMAS, F. O.
Development of a 2-dimensional turbulent jet under natural and excited conditions 17 p2666 N84-26997
THOMAS, G.
Continuous annealing of a Fe/0.1C/0.45Si/0.1Mo dual-phase steel
[DE83-015984] 01 p0047 N84-10300
Lattice-parameter measurement in retained austenite by CBED
[DE83-013296] 02 p0195 N84-11267
Physical metallurgy and alloy design of dual phase steels
[DE84-005162] 11 p1634 N84-20682
Fatigue resistance and microstructure of experimental dual phase Fe/2Si/0.1C steel
[DE84-004314] 11 p1635 N84-20692
High resolution electron microscopy studies of the early stages of decomposition in alloys and ceramics
[DE84-020802] 20 p3163 N84-30087
THOMAS, G. B.
Performance consistency on a perceptual-motor task as a correlate of achievement motivation
[AD-A135933] 10 p1552 N84-20170
THOMAS, G. R.
Characterization of cumulative damage in composites during service 01 p0033 N84-10210
THOMAS, H. H. B. M.
The aerodynamics of aircraft control: A general survey in the context of active control technology
01 p0013 N84-10084
THOMAS, I. M.
Chemical treatment of silicate glasses for producing anti-reflection surfaces
[DE84-005865] 11 p1732 N84-21299
THOMAS, J.
Definition and layout of a traffic generator for an air traffic control simulation
[DFVLR-FB-84-15] 20 p3128 N84-29662
Techniques for fatigue life predictions from measured strains
[NASA-CR-171118] 20 p3201 N84-30334
THOMAS, J. B.
The detection of signals in impulsive noise
[AD-A130393] 01 p0062 N84-10409
Nearly optimal detection of signals in non-Gaussian noise
[AD-A138657] 13 p1963 N84-22872
THOMAS, J. J.
Management and display of data analysis environments for large data sets
[DE84-001414] 04 p0616 N84-14069
ALDS project: Motivation, statistical database management issues, perspectives, and directions
[DE84-001412] 05 p0760 N84-14983
Architecture for a user interface management system
[DE84-003982] 11 p1710 N84-21146
THOMAS, J. L.
TIS: An intelligent gateway computer for information and modeling networks. Overview
[DE83-017986] 04 p0616 N84-14067
Navier-Stokes calculations for the vortex of a rotor in hover
[NASA-TM-85894] 15 p2255 N84-24540
Transonic viscous-inviscid interaction using Euler and inverse boundary-layer equations
23 p3688 N84-33976
THOMAS, J. M.
Recommendations for future research on fracture mechanics life technology
[NASA-CR-170904] 08 p1169 N84-17615
A review of fracture mechanics life technology
[NASA-CR-170903] 08 p1170 N84-17622
Statistical approach to damage tolerance assessment
[SNIAS-832-111-112] 15 p2260 N84-24575
Predicting the delamination of a multistage composite
[SNIAS-832-111-102] 16 p2461 N84-25771
Crystallization of the glassy phase of grain boundaries in silicon nitride
[NASA-TM-77466] 16 p2560 N84-26421
Implementation and performance of algorithms on a vector calculator
[SNIAS-832-111-104] 18 p2920 N84-28519

THOMAS, J. O.
Proton transport in beta alumina
11 p1739 N84-21345
Proton transport in beta alumina
11 p1743 N84-21371
THOMAS, L. D.
Computer vision for real-time orbital operations. Center directors discretionary fund
[NASA-TM-86457] 22 p3640 N84-33076
THOMAS, M.
Highly accurate inflatable reflectors
[AD-A143628] 23 p3625 N84-34255
THOMAS, M. E.
Anomalous propagation and radar coverage through inhomogeneous atmospheres 15 p2326 N84-24967
THOMAS, M. T.
Hydrogen embrittlement of a 12 Cr-1 Mo steel
[DE83-016781] 02 p0195 N84-11270
Grain boundary segregation and environmental degradation of a ferritic stainless steel
[DE83-016927] 04 p0502 N84-13289
Analytical characterization of coatings and thin overlayers
[DE84-011902] 21 p3371 N84-31389
THOMAS, N.
Demonstration of boundary layer characteristics
[BU-299] 15 p2256 N84-24550
THOMAS, N. I.
Range performance calculations using the NVEOL-Georgia Tech Research Institute 0.1- to 100-GHz radar performance model
[AD-A133661] 05 p0667 N84-14387
THOMAS, P.
Dust streaks on Mars: Colors and photometry
13 p2062 N84-23489
Participation in the Mars data analysis program: Global and regional studies of wind-indicators on the surface of Mars
[NASA-CR-173962] 24 p3992 N84-35261
THOMAS, P. D.
User's guide to the NOZL3D and NOZLIC computer programs
[NASA-CR-159173] 19 p3020 N84-29150
THOMAS, R.
Development of a new charger system
[BMFT-FB-T-83-305] 15 p2328 N84-24977
Automation of a stamping press using sequential hydraulic manipulators
[CETIM-1-4N-090] 21 p3376 N84-31422
THOMAS, R. E.
Analysis of lead-acid battery accelerated testing data
[DE83-017403] 04 p0528 N84-13473
Analysis of lead-acid battery deep-cycle accelerated testing data
[DE84-013192] 22 p3589 N84-32736
THOMAS, R. G.
Catalog of selected heavy duty transport energy management models
[NASA-CR-168299] 05 p0761 N84-14991
THOMAS, R. H.
A technical overview of the National Software Works
[AD-A132320] 04 p0580 N84-13827
Satellite remote sensing over ice
17 p2719 N84-27308
Cronus, A distributed operating system: Functional definition and system concept
[AD-A142795] 21 p3462 N84-31950
THOMAS, R. J.
Expressions to determine temperatures and emission measures for solar X-ray events from GOES measurements
[NASA-TM-86142] 22 p3679 N84-33325
THOMAS, R. N.
Stellar atmospheric structural patterns
[NASA-SP-471] 09 p1414 N84-19253
Possible identifying characteristics of Be stars
24 p3976 N84-35185
THOMAS, R. W.
The effects of moisture on fracture toughness and thermal relaxation of stretched acrylic plastics
[AD-P003197] 17 p2591 N84-26610
Synthesis of resin polymers for chemical agent defense
[AD-A141035] 18 p2818 N84-27892
THOMAS, S. J.
A non-first-normal-form relational database model
21 p3517 N84-32280
THOMAS, S. R.
Microwave interferometer using 94-GHz solid-state sources
[DE84-003741] 09 p1392 N84-19090
THOMAS, S. W.
Ultrafast gated intensifier design for laser fusion X-ray framing applications
[DE84-007761] 15 p2339 N84-25038
THOMAS, T. M.
Polymer degradation on reflecting metal films: Fourier transform infrared (FTIR) reflection-absorbance studies
[DE83-012129] 03 p0404 N84-12641
THOMAS, U.
Design of a project plan for the establishment of a lunar factory
[ILR-MITT-123] 10 p1435 N84-19379
THOMAS, V.
Modeling of inhalation administration of vapors with capacity limited clearance
[AD-A138847] 13 p2020 N84-23098
THOMAS, W. C.
Solar collector test procedures: Development of a method to refer measured efficiencies to standardized test conditions
[PB84-165299] 17 p2723 N84-27333
THOMAS, W. H.
Yields photosynthetic efficiencies, and proximate chemical composition of dense cultures of marine microalgae, a subcontract report
[DE83-011992] 04 p0570 N84-13757
THOMAS, W. J. R.
Industrial and marine engine derivatives: A spin-off from aviation
[PNR-90197] 13 p1934 N84-22581
THOMASELL, A.
The impact of satellite temperature soundings on the forecasts of a small national meteorological service
17 p2717 N84-27295
THOME, F. V.
A survey of the state-of-the-art in aging of electronics with application to nuclear-power-plant instrumentation
[DE83-012696] 01 p0073 N84-10478
THOME, R. J.
Safety and protection for large-scale superconducting magnets. A FY 1982 report
[DE83-012961] 01 p0154 N84-11013
Passive and active circuits for vertical plasma stabilization
[DE84-008857] 18 p2933 N84-28599
THOMPKINS, J. A.
Evaluation of arctic test of tritium radioluminescent lighting
[AD-A139176] 14 p2104 N84-23619
THOMPKINS, W. T., JR.
Asymptotic analysis of numerical wave propagation in finite difference equations
[NASA-CR-175323] 06 p0822 N84-15360
THOMPSON, A.
A high-resolution study of ultra-heavy cosmic-ray nuclei (A0178) 15 p2275 N84-24661
Performance of telecommunications systems in a random probabilistic environment. Task 2: Single source interference with random parameters
[PB84-158534] 17 p2655 N84-26981
THOMPSON, A. H.
Application of satellite data to tropic/subtropic moisture coupling 24 p3926 N84-34849
THOMPSON, A. W.
Stress corrosion cracking of wrought and P/M high strength aluminum alloys
[AD-A144279] 24 p3884 N84-34606
THOMPSON, C. J.
Review of storage stability characteristics of hydrocarbon fuels, 1952-1982
[DE84-006557] 12 p1803 N84-21754
THOMPSON, C. V.
Submicron structures technology and research
22 p3683 N84-33353
THOMPSON, D.
Effects of long-term low-level radiofrequency radiation exposure on rats. Volume 4: Open-field behavior and corticosterone
[AD-A137743] 12 p1863 N84-22141
Effects of long-term low-level radiofrequency radiation exposure on rats. Volume 6: Hematological, serum chemistry, thyroxine, and protein electrophoresis evaluations
[AD-A141124] 19 p3063 N84-29434
THOMPSON, D. C.
Fabrication of machined optics for precision applications
[DE83-015720] 03 p0442 N84-12900
THOMPSON, D. H.
A flow visualisation study of tip vortex formation
[ARL-AERO-NOTE-421] 14 p2100 N84-23603
THOMPSON, D. O.
Computational tool for the design of ultrasonic systems
[DE83-018092] 03 p0431 N84-12824
Elastic-wave scattering from multiple voids (porosity)
[DE83-018076] 04 p0546 N84-13598
Ultrasonic 3-D reconstruction of inclusions in solids using the inverse Born algorithm
[DE83-018082] 04 p0595 N84-13928
THOMPSON, D. R.
Preliminary evaluation of TM for soils information
20 p3216 N84-30427
THOMPSON, D. S.
TAS: A Transonic Aircraft/Store flow field prediction code
[NASA-CR-3721] 06 p0781 N84-15114
THOMPSON, E. A.
Grid-based line drawing quantization
[AD-A138194] 12 p1881 N84-22261
THOMPSON, E. J.
Geothermal potential along the Balcones/Ouachita trend, central Texas: Ongoing assessment and selected case studies
[DE84-010826] 20 p3241 N84-30578
THOMPSON, G. I.
Catalogue of stellar ultraviolet fluxes. A compilation of absolute stellar fluxes measured by the Sky Survey Telescope (S2/68) aboard the ESRO satellite TD-1
15 p2423 N84-25558
Study of hot spot galaxies 24 p3971 N84-35143
THOMPSON, G. L.
Design of an integrated software system based on the relational data base model
[AD-A140628] 17 p2752 N84-27470
A problem expanding parametric programming method for solving the job shop scheduling problem
[AD-A142392] 20 p3313 N84-31036
THOMPSON, H. D.
Laser velocimeter measurements and analysis in turbulent flows with combustion, part 2
[AD-A131882] 03 p0372 N84-12421
Turbulence characteristics of an axisymmetric reacting flow 11 p1611 N84-20548
THOMPSON, H. L., III
Physical fitness as a moderator of cognitive degradation during sleep deprivation
[AD-A131962] 03 p0415 N84-12718
THOMPSON, H. T.
Accident surrogates for use in analyzing highway safety hazards, volume 2
[PB84-174747] 16 p2478 N84-25884
Accident surrogates for use in analyzing highway safety hazards. Volume 3: Appendices A-G
[PB84-174754] 16 p2478 N84-25885
THOMPSON, J. A.
Qualification of a new MAPO source and ERL-510 curing agent for Minuteman Stage I UF-2121 liner
[AD-A137539] 11 p1626 N84-20640
Surveillance report. Stage I dissected motors. Phase XIV. Propellant and component testing
[AD-A139201] 14 p2132 N84-23777
Stage I propellant surveillance report glacial acrylic acid motors GAA-001 and GAA-002 TP-H1011
[AD-A141099] 19 p3001 N84-29020
THOMPSON, J. D.
Sampling strategies and four-dimensional assimilation of altimetric data for ocean monitoring and prediction
17 p2721 N84-27317
The influence of actual and apparent geoid error on ocean analysis and prediction 17 p2721 N84-27318
Pressure-dependent resistive behavior of YbBe13
[DE84-010068] 22 p3555 N84-32514
THOMPSON, J. F.
Numerical solution of the Navier-Stokes equations for arbitrary 2-dimensional multi-element airfoils
[NASA-CR-173251] 07 p1061 N84-16876
The importance of dynamically-adaptive grids in the numerical solution of partial differential equations
16 p2492 N84-25984
Quasiconformal mappings and grid generation
[NASA-CR-173920] 22 p3644 N84-33105
THOMPSON, J. M.
Laboratory automation of a quadrupole mass spectrometer 06 p0932 N84-16053
THOMPSON, L. M.
Development of an improved protective cover/light block for multilayer insulation
[NASA-TM-82563] 06 p0809 N84-15269
THOMPSON, M. C.
Performance of the perfluorocarbon liquid/plastic film capacitor technology in repetitive discharge pulse power service
[DE83-012502] 01 p0073 N84-10477
The performance of the perfluorocarbon liquid/plastic-film capacitor technology in pulse-power service. A current status report
[DE83-014606] 03 p0369 N84-12402
Test techniques for model development of repetitive service energy storage capacitors
[DE84-004312] 11 p1674 N84-20925
THOMPSON, M. R.
Development of a stress-dependent finite element slab model
[AD-A135836] 09 p1332 N84-18694

THOMPSON, N. A.
Safety training priorities
[AD-A141711] 19 p3002 N84-29026
THOMPSON, N. G.
Corrosion of underground pipe
[PB83-243923] 02 p0198 N84-11289
THOMPSON, P. A.
Physical modeling of the champagne effect
[DE84-001813] 04 p0516 N84-13388
THOMPSON, P. B.
Design of the Advanced Toroidal Facility (ATF-1)
[DE83 [illegible]841] 03 p0445 N84-12923
THOMPSON, P. F.
Calorimetric determination of the thermodynamic behavior of reversible liquid-phase reactions for use in energy storage
[DE84-010437] 21 p3507 N84-32218
THOMPSON, R.
Cognitive performance change during a 6-hour hike at low temperature in simulated rain, at controlled walking rates
[AD-A138358] 13 p2020 N84-23100
Solid propellant nonlinear constitutive theory extension
[AD-A139957] 15 p2304 N84-24823
The NASA IUE data analysis facilities 24 p3982 N84-35227
THOMPSON, R. B.
Progress on ultrasonic flaw sizing in turbine-engine rotor components: Bore and web geometries
[DE83-018081] 03 p0333 N84-12167
Inference of fatigue-crack closure stresses from ultrasonic-transmission measurements
[DE83-017684] 03 p0390 N84-12547
Analytic diffraction corrections to ultrasonic scattering measurements
[DE83-018080] 03 p0431 N84-12825
Measurements of ultrasonic scattering from near-surface flaws
[DE83-017693] 03 p0431 N84-12827
Elastic-wave scattering from multiple voids (porosity)
[DE83-018076] 04 p0546 N84-13598
Effects of crack closure on ultrasonic transmission
[DE83-018073] 04 p0546 N84-13599
Absolute determination of stress in textured materials
[DE83-018083] 04 p0550 N84-13621
Method and apparatus for measuring stress
[DE84-011035] 20 p3203 N84-30347
Application of elastic wave scattering theory to the detection and characterization of flaws in structural materials
[DE84-013729] 22 p3607 N84-32852
THOMPSON, R. C.
Stability analysis for difference schemes, problems in applied linear algebra, and application of number theory to computing
[AD-A133654] 05 p0735 N84-14825
THOMPSON, R. E.
Stress transducer interpretation analysis and stability data 20 p3143 N84-29957
THOMPSON, R. L.
The development of military aircraft engine monitoring systems 17 p2585 N84-26570
A computer program for predicting nonlinear uniaxial material responses using viscoplastic models
[NASA-TM-83675] 19 p3034 N84-29247
THOMPSON, S.
Solar Radiation Data Directory: A guide to solar radiation and meteorological data collection activities in the US
[DE84-000095] 20 p3315 N84-31057
THOMPSON, S. L.
A comparison of baroclinic eddy heat-transport parameterizations to a simplified general circulation model 02 p0252 N84-11650
THOMPSON, T. W.
A user's manual for the NASA/JPL synthetic aperture radar and the NASA/JPL L and C band scatterometers
[NASA-CR-173209] 07 p0992 N84-16428
Correction and geological analysis of lunar 3.8 CM radar data 13 p2089 N84-23531
THOMPSON, W. R.
A physical and chemical study of Titan: Atmosphere, clouds, and hazes 17 p2776 N84-27628
THOMSEN, H. H.
Glaciological applications of LANDSAT images in connection with hydropower investigations in West Greenland 03 p0398 N84-12598
THOMSEN, M. F.
Investigation of laminar shocks
[DE84-010074] 20 p3242 N84-30582
Suprathermal ions upstream of the Earth's bow shock
[DE84-012625] 21 p3444 N84-31855
THOMSON, D. D.
Electromagnetic near-field computations for a broadcast monopole using Numerical Electromagnetics Code (NEC)
[AD-A135975] 09 p1303 N84-18516
THOMSON, D. J.
The effect of noisy reflection data on an inverse method for determining the structure of a layered ocean bottom
[AD-A131976] 03 p0430 N84-12820
Inversion of the acoustic plane wave reflection response of a layered ocean bottom
[AD-A132794] 18 p2928 N84-28570
THOMSON, F. J.
Multi-temporal analysis of LANDSAT imagery for bathymetry
[AD-A130648] 01 p0100 N84-10652
THOMSON, J. M.
Space Shuttle main engine powerhead structural modeling, stress and fatigue life analysis. Volume 1: Gasdynamic environment of the SSME HPFTP and HPOTP turbines
[NASA-CR-170999] 11 p1625 N84-20635
Space Shuttle main engine powerhead structural modeling, stress and fatigue life analysis. Volume 2: Dynamics of blades and nozzles SSME HPFTP and HPOTP
[NASA-CR-171000] 11 p1625 N84-20636
Space Shuttle main engine powerhead structural modeling, stress and fatigue life analysis. Volume 3: Stress summay of blades and nozzles at FPL and 115 percent RPL loads. SSME HPFTP and HPOTP blades and nozzles
[NASA-CR-171001] 11 p1625 N84-20637
Prediction of field strengths near HF transmitters
[AD-B078278] 15 p2319 N84-24917
THOMSON, K. D.
Wind tunnel tests on a tube-launched missile configuration with a deflectable nose control and a novel wrap-around fin stabiliser
[AD-A142082] 20 p3134 N84-29900
THOMSON, R. G.
Survey of NASA research on crash dynamics
[NASA-TP-2298] 12 p1826 N84-21901
THOMSON, R. G. W.
Phase locked loop theory and application: A precise paper
[CSIR-NIAST-82/57] 04 p0524 N84-13444
THOMSON, W. G.
A study of wing-body aerodynamic interference of a light twin aircraft utilizing a panel method potential flow program 03 p0327 N84-12134
THONY, J. L.
Evaporation from a bare soil evaluated from a soil water transfer model using remotely sensed surface soil moisture data
[CRPE-NT-125] 13 p2006 N84-23016
THORBJORNSEN, A. R.
Statistical simulation of GaAs MESFETS
[AD-A133923] 05 p0674 N84-14428
THORINGTON, C.
Improved computer modelling of magnetron injection guns for gyrotrons
[DE84-007536] 15 p2330 N84-24992
THORISSON, H.
The queue G/G/1: Finite moments of the cycle variables and uniform rates of convergence
[CTH-MATH-1983-18] 07 p1068 N84-16933
The queue G/G/k: Finite moments of the cycle variables and uniform rates of convergence
[CTH-MATH-1983-24] 13 p2037 N84-23218
Boundary problems and large deviation results for queue length processes
[CTH-MATH-1984-05] 19 p3090 N84-29623
On regenerative and ergodic properties of the k-server queue with nonstationary Poisson arrivals
[CTH-MATH-1984-2] 19 p3094 N84-29648
Backward limits of non-time-homogeneous regenerative processes
[CTH-MATH-1984-09] 19 p3095 N84-29654
THORMODSGARD, J. M.
Geodetic accuracy of LANDSAT-4 Multispectral Scanner and Thematic Mapper data 20 p3211 N84-30399
THORNDIKE, A. S.
Remote sensing of floe size distribution and surface topography
[E84-10132] 15 p2357 N84-25141
THORNDYKE, P. W.
Alternative knowledge acquisition interface structures
[AD-A139019] 13 p2022 N84-23109
THORNE, D. R.
Complex demodulation: A technique for assessing periodic components in sequentially sampled data
[AD-P003845] 24 p3939 N84-34933
THORNHILL, J. W.
Process and apparatus for growing a crystal ribbon
[NASA-CASE-NPO-15629-1] 24 p3966 N84-35113
THORNTON, B.
NASA/MSFC NASTRAN auxiliary I/O routines 06 p0858 N84-15592
THORNTON, E. A.
Self-shadowing of orbiting trusses
[NASA-CR-173215] 07 p1012 N84-16585
Finite element thermal-structural analysis of cable-stiffened space structures
[NASA-CR-173709] 18 p2852 N84-28108
THORNTON, G. K.
Wind tunnel study of natural gas dispersion from models of pipeline fractures and measurements of source characteristics
[OUEL-1466/83] 07 p1005 N84-16516
THORNTON, H. T., JR.
Tensile crack exposure tests. Statistical analysis of the long-term durability of series B beams
[AD-A141955] 20 p3201 N84-30335
THORNTON, W. E.
Method and apparatus for simulating gravitational forces on a living organism
[NASA-CASE-MSC-20202-1] 07 p1050 N84-16803
THORPE, C. E.
Path relaxation: Path planning for a mobile robot
[AD-A141779] 19 p3032 N84-29229
THORPE, D. J.
MIL-STD-1553B validation testing
[AD-P003544] 21 p3333 N84-31148
THORPE, J.
Civil aircraft windscreen damage due to birdstrikes
[AD-P003214] 17 p2594 N84-26627
Windshield problems on UK operated transport sized jet aircraft 1976 to 1982
[AD-P003226] 17 p2596 N84-26641
THORPE, J. N.
Temperature-resistant elements for reverse osmosis treatment of hot process waste
[DE84-005190] 10 p1456 N84-19507
THORPE, R. D.
Aircraft exhaust plume signature predictions for non-axisymmetric multiple engine installations 13 p1942 N84-22627
THORPE, W. G.
The 27th AFOSR (Air Force Office of Scientific Research) chemical and atmospheric sciences program review (27th)
[AD-A133718] 05 p0703 N84-14612
THRALL, A. D.
Statistical correlations of surface wind data: A comparison between a National Weather Service station and a nearby aerometric network
[PB83-237263] 02 p0257 N84-11680
THRASHER, R. K.
Microstructural analysis for series 300 stainless steel sheet welds and tensile samples
[DE84-008513] 22 p3605 N84-32837
THRESH, H. R.
Study of chromium-free and chromium-reduced steels
[DE83-016717] 03 p0353 N84-12294
THROCKMORTON, D. A.
Orbiter catalytic/noncatalytic heat transfer as evidenced by heating to contaminated surfaces on STS-2 and STS-3 01 p0024 N84-10153
THRON, W.
The Project STRAFAM: Test of a new parachute based instrument carrier for stratospheric research
[BMFT-FB-W-84-021] 21 p3445 N84-31859
THRONSON, H. A., JR.
NGC 2024: Far-infrared and radio molecular observations
[NASA-TM-85954] 16 p2575 N84-26524
The energetics and mass structure of regions of star formation
[NASA-TM-85953] 16 p2575 N84-26525
The nature of AFGL 2591 and its associated molecular outflow: Infrared and millimeter-wave observations
[NASA-TM-85963] 16 p2575 N84-26526
W3 North: Far-infrared and radio molecular observations
[NASA-TM-85961] 17 p2774 N84-27615
THROOP, J. F.
Behavior of pressurized cylinders with multiple internal cracks
[AD-A136104] 09 p1334 N84-18707
THROP, J.
Upgrading and performance of the SAO laser ranging system in Matera
[NASA-CR-173176] 07 p1009 N84-16543
THUEMMIER, F.
Structure, preparation and properties of refractory compounds and systems (hard materials and hard metals)
[NASA-TM-77076] 07 p0974 N84-16309
THUILLOT, W.
Analytical theory of the motion of the Galilean satellites of Jupiter: The first approximation 19 p3120 N84-29834

THULIN, R. D.
Energy efficient engine high-pressure turbine detailed design report
[NASA-CR-165606] 19 p2965 N84-28788
Energy efficient engine: Turbine intermediate case and low-pressure turbine component test hardware detailed design report
[NASA-CR-167973] 19 p2965 N84-28789
THUMM, M.
Far field radiation patterns from open ended oversized circular waveguides and identification of multimode outputs of gyrotrons
[IPF-83-5] 12 p1911 N84-22454
THURBER, W. R.
Measurement techniques for high-power semiconductor materials and devices
[DE84-010425] 20 p3309 N84-31016
THURSTON, A. D., JR.
Application of a spray deposition method for reversed phase liquid chromatography-mass spectrometry
[PB84-159029] 14 p2124 N84-23730
THYFAULT, D. V.
Decentralized control of a large space structure using direct output feedback
[AD-A136781] 10 p1448 N84-19464
THYOX, N.
Physiological and ecological characteristics of the water fern, azolla pinnata, and prospects of using it in biological life-support system for man 02 p0261 N84-11709
THYSTED, T.
Statistical lineament analysis in South Greenland based on LANDSAT imagery 23 p3770 N84-33901
TICE, A. R.
Transport of water in frozen soil. I: Experimental determination of soil-water diffusivity under isothermal conditions
[AD-A135419] 08 p1177 N84-17671
TICHENOR, D. A.
Fiberoptic probe for measuring high frequency temperature fluctuations in combustion gases
[DE84-006784] 14 p2148 N84-23869
TICHOVOLSKY, E. J.
HF prediction using adiabatic invariant theory
[AD-A143239] 22 p3576 N84-32652
TICHY, J.
Active attenuation of propeller blade passage noise
[NASA-CR-172386] 20 p3290 N84-30886
TICHY, J. A.
The effect of fluid inertia and viscoelasticity in squeeze-film damper bearings
[AD-A138054] 12 p1822 N84-21860
TIDMAN, D. A.
Investigation of a pulsed electrothermal thruster
[NASA-CR-168266] 03 p0343 N84-12227
Research and development of a plasma jet mass accelerator as a driver for impact fusion
[DE84-012940] 22 p3659 N84-33198
TIDONA, R. J.
Combustion characteristics in the transition region of liquid fuel sprays
[NASA-CR-175396] 10 p1454 N84-19495
Combustion characteristics in the transition region of liquid fuel sprays 11 p1609 N84-20534
TIEDERMAN, W. G.
Injection of drag reducing additives into turbulent water flows: Results from factorial design
[AD-A141675] 19 p3024 N84-29177
TIEFENBACK, M.
A high current heavy ion beam transport experiment at LBL
[DE84-009225] 20 p3294 N84-30912
TIELENS, A. G. G. M.
Infrared emission associated with chemical reactions on Shuttle and SIRTF surfaces
[NASA-TM-85875] 12 p1921 N84-22515
The composition of interstellar grain mantles 16 p2570 N84-26490
The composition of interstellar grain mantles 18 p2947 N84-28688
Studies of low-mass star formation with the large deployable reflector
[NASA-TM-85960] 21 p3524 N84-32328
TIEMANN, W.
Geophysical data from drifting ice stations FRAM 4 and TRISTEN
[AD-A133370] 06 p0866 N84-15640
Physical oceanography report STD data from drifting ice station Fram 1
[AD-A134244] 08 p1196 N84-17797
TIEN, J. K.
Effects of cobalt in nickel-base superalloys
[NASA-CR-168308] 05 p0652 N84-14287
The role of cobalt on the creep of Waspaloy
[NASA-CR-174628] 10 p1458 N84-19523
TIEN, J. S.
Combustor flame flashback 11 p1614 N84-20561
TIEN, T. Y.
Effect of crystallization of grain boundary phase on the high temperature strength of silicon nitride ceramics
[DE84-011786] 21 p3371 N84-31392
TIENFENBACHER, E.
Ceramic components for gas turbines, phase 2
[BMFT-FB-T-83-198] 08 p1105 N84-17183
TIERNAN, T. O.
Investigation of the dynamics and threshold behavior of endothermic negative ion-neutral reactions
[DE84-001369] 04 p0602 N84-13975
Ion-molecule reactions and plasma parameters of positive column in oxygen glow discharge 21 p3476 N84-32036
TIERNEY, J.
A programmable voice processor for fighter aircraft applications
[AD-A133780] 05 p0668 N84-14393
Evaluation of the comprehension of non-continuous, sped-up vocoded speech: A strategy for coping with fading HF (High Frequency) channels
[AD-A138650] 13 p1982 N84-22871
Vocoder analysis based on properties of the human auditory system
[AD-A138660] 14 p2141 N84-23837
The Lincoln Laboratory-Aerospace Medical Research Laboratory digital speech test facility
[AD-A144303] 24 p3894 N84-34662
TIESZEN, S. R.
Experimental facilities to study hydrogen combustion and detonation
[DE84-008998] 20 p3149 N84-29997
TIETZ, J. C.
Development of an autonomous video rendezvous and docking system, phase 3
[NASA-CR-170969] 08 p1115 N84-17249
TIEU, H. A.
Second-order effects in complex rheological flows 16 p2494 N84-25999
TIEZHONG, T.
Influence of temperature on the Delta K sub th and da/dN of LY-12CS aluminum alloy 20 p3160 N84-30067
TIFFANY, S. H.
Tools for active control system design 11 p1617 N84-20582
STABCAR: A program for finding characteristic root systems having transcendental stability matrices
[NASA-TP-2165] 17 p2751 N84-27461
Design of a candidate flutter suppression control law for DAST ARW-2
[NASA-TM-86257] 20 p3131 N84-29883
Active controls: A look at analytical methods and associated tools
[NASA-TM-86269] 21 p3419 N84-31684
TIFFON, J.
Study of the 13 GHz signal attenuation due to tropical rains
[CRPE-NT-113] 13 p1984 N84-22879
Analysis of propagation conditions at 20 and 30 GHz in Europe
[CRPE-NT-122] 13 p1984 N84-22880
TIGHE, R. J.
User's guide for ERB 7 SEFDT. Volume 1: User's guide. Volume 2: Quality control report, year 1
[NASA-CR-170616] 16 p2581 N84-26553
User's guide for ERB 7 matrix. Volume 1: Experiment description and quality control report for year 1
[NASA-CR-170619] 21 p3464 N84-31960
TIGRANYAN, R. A.
Oxidative enzyme activity in rat blood plasma and subcellular fraction of liver following flight aboard Cosmos-936 biosatellite 15 p2377 N84-25265
TIGROV, V. M.
The time-spatial structure of microwave radio fields on line-of-sight overwater paths
[REPT-220] 17 p2651 N84-26955
TIJDEMAN, R.
Computational methods in number theory, part 1
[MATH-CENTRE-TRACTS-154-PT-1] 08 p1223 N84-17990
Computational methods in number theory, part 2
[MATH-CENTRE-TRACTS-155-PT-2] 08 p1225 N84-17999
Diophantine equations 08 p1225 N84-18004
TIKHOMIROV, B. A.
Relation between pressure pulse generated in optoacoustic receiver and intensity of stimulating laser pulse 21 p3478 N84-32047
TIKHOMIROV, N. P.
Problems of diffraction and propagation of waves (selected articles)
[AD-A143912] 23 p3731 N84-33650
TIKHOMIROV, S. V.
Photoelectric master means of measurement of energy and maximum power of pulsed lasers 17 p2637 N84-26872
Precision photometer for measurement of low levels of maximum power of pulses laser radiation 17 p2638 N84-26873
TIKHONCHUK, V. S.
Rat behavior in selection of negative stimulus: Pain or exposure to electromagnetic field 20 p3255 N84-30657
TIKHONOV, A.
Discussion of superplasticity effect 24 p3876 N84-34563
TIKHONOV, A. N.
Stable method for solving linear programming problem with approximate data 21 p3484 N84-32077
TIKHONOV, M. A.
Hemodynamic reactions to positive intrathoracic pressure at +G sub z accelerations 02 p0259 N84-11698
TIKHONOV, S. S.
Producing thermomagnetic alloy by powder metallurgy
[BLL-M-35668-(5828.4)] 22 p3553 N84-32500
TILDEN, S. B.
Computer controlled laser optoacoustic spectroscopy for trace gas analysis 13 p1955 N84-22710
TILENSCHI, L.
Development of a process for manufacturing high voltage CMOS circuits and of a technology for gold bump plating for use in integrated display systems
[BMFT-FB-T-83-280] 10 p1488 N84-19732
TILL, M.
Superfluid Helium Cryostat for Space Utilization (CRHESUS): Development and test overview 10 p1442 N84-19420
TILL, S. M.
Remote sensing using the airborne MEIS 2 multidetector electro optical imaging scanner 03 p0397 N84-12592
TILLER, B. K.
Bearing tester data compilation, analysis and reporting and bearing math modeling, volume 1
[NASA-CR-171039] 15 p2340 N84-25046
TILLER, S. E.
Performance of the IUE spacecraft batteries after 70 months 23 p3738 N84-33692
TILLER, W. A.
Fabrication and properties of multilayer structures
[AD-A131934] 03 p0451 N84-12969
Fabrication and properties of multilayer structures
[NASA-CR-174506] 06 p0922 N84-15997
Computer simulation of surface and film processes
[NASA-CR-173682] 21 p3419 N84-31682
TILLET, S. B.
Techniques in high-temperature resistance thermometry. 1: Construction of the NBS-design high temperature platinum resistance thermometer. 2: Toroidal resistor for high-temperature platinum resistance thermometers
[PB84-164110] 17 p2672 N84-27029
TILLEY, D. G.
Tracking ocean wave spectrum from SAR images 17 p2714 N84-27277
The information content of spaceborne SAR ocean image spectra 23 p3771 N84-33905
TILLEY, D. M.
SSME structural dynamic model development
[NASA-CR-170960] 08 p1121 N84-17287
Space Shuttle main engine powerhead structural modeling, stress and fatigue life analysis. Volume 1: Gasdynamic environment of the SSME HPFTP and HPOTP turbines
[NASA-CR-170999] 11 p1625 N84-20635
Space Shuttle main engine powerhead structural modeling, stress and fatigue life analysis. Volume 2: Dynamics of blades and nozzles SSME HPFTP and HPOTP
[NASA-CR-171000] 11 p1625 N84-20636
Space Shuttle main engine powerhead structural modeling, stress and fatigue life analysis. Volume 3: Stress summay of blades and nozzles at FPL and 115 percent RPL loads. SSME HPFTP and HPOTP blades and nozzles
[NASA-CR-171001] 11 p1625 N84-20637
TILLEY, P. A.
Pershing II simulation studies. Debris dynamics and 2.75 rocket 6-DOF (Degree Of Freedom)
[AD-A139130] 14 p2113 N84-23663
TILLHAGEN, O.
Parachuting in night conditions
[FOA-C-59010-H1] 18 p2790 N84-27708
Parachute descent from altitude 5000 to 7000 meters
[FOA-C-59008-H1] 19 p2959 N84-28756
TILLIAN, D. J.
Space shuttle orbiter reusable surface insulation flight results 01 p0025 N84-10157

TILLMANNS, H.
Electrographite electrodes from coal tar pitch super needle coke for electric steel manufacturing
[BMFT-FB-T-83-067] 02 p0197 N84-11281
TILLOTSON, D.
Evaluation of strategies to enhance departure sequencing
[AD-A140710] 17 p2605 N84-26689
TILLY, D. M.
Linear systems analysis program user's manual, version 2.2 (VAX/VMS)
[DE84-012230] 20 p3275 N84-30789
Linear systems analysis program: Programmer's manual, version 2.2 (VAX/VMS)
[DE84-010953] 20 p3282 N84-30835
TILOVE, R. B.
Efficient editing of solid models by exploiting structural and spatial locality
[TM-46] 23 p3815 N84-34190
TILSTON, J. R.
The design and performance of a combustor with a multiple jet primary zone 15 p2291 N84-24749
TILTON, B. M.
Duration of memory loss due to electron beam exposure
[AD-A1329+1] 06 p0886 N84-15760
TILTON, G. R.
Archean crust-mantle geochemical differentiation 11 p1680 N84-20966
TILTON, J. C.
Multiresolution spatially constrained clustering of remotely sensed data on the massively parallel processor 23 p3779 N84-33962
Analysing remotely sensed data on the Massively Parallel Processor 23 p3779 N84-33963
TILTON, R. A.
Radiative collisional laser feasibility demonstration
[AD-A135793] 09 p1322 N84-18640
TIMASHEV, S. V.
Areas of the rational use of different spacecraft power systems
[AD-A129340] 02 p0186 N84-11207
TIMBAL, J.
Value of the tilt table in the exploration of circulatory function 11 p1701 N84-21095
TIMBARIO, T. J.
Development of accelerated fuel-engine qualification procedures
[AD-A143845] 23 p3693 N84-33406
TIMBERLAKE, A. B.
MM and T: Ceramic metal substrates for hybrid electronics
[AD-A132514] 04 p0505 N84-13313
MM&T-Ceramic metal substrates for hybrid electronics: Handbook
[AD-A140689] 17 p2623 N84-26790
TIMM, R.
Transonic noise generation by duct and profile flow
[AD-A129367] 06 p0908 N84-15899
Initial experiments on profile vortex interaction
[MPIS-6/1983] 12 p1766 N84-21520
TIMMERMAN, N. S.
Loss factors measured in metal matrix composite materials
[AD-A143542] 22 p3545 N84-32440
TIMMONS, M. L.
Organotin piezo- and pyroelectric polymer films
[DE83-009903] 02 p0201 N84-11306
TIMOC, C. C.
Product assurance technology for procuring reliable, custom LSI/VLSI electronics
[NASA-CR-173405] 12 p1812 N84-21810
TIMOFEEV, P. P.
Plasma particle acceleration due to emission of ground-based and onboard transmitters 05 p0636 N84-14181
TIMOFEYEV, Y. I.
Interaction of air shock waves and porous shield 17 p2645 N84-26922
TIMOFEYEVA, G.
International law gives states right to jam foreign radio broadcasts 15 p2327 N84-24972
TIMOSHKOVA, Y. I.
Quasicircular equatorial orbits of artificial earth satellites with allowance for light pressure 19 p2974 N84-28851
TIMOTHY, J. G.
The development and test of multi-anode microchannel array detector systems. 2: Soft X-ray detectors
[NASA-CR-173245] 07 p0996 N84-16457
TIMP, G.
Structure and phase transitions in bromine and potassium-mercury intercalated graphite
[AD-A133863] 05 p0645 N84-14244
The anomalous magnetoresistance of graphite at high magnetic fields
[AD-A133861] 05 p0753 N84-14938
TIMPE, C. T.
X-band uplink technology demonstration at DSS-13 16 p2479 N84-25893
TIMPTON, D. A.
The effects of Gx, Gy and Gz forces on cone mesopic vision
[AD-A139498] 14 p2185 N84-24092
TING, E. C.
Vehicle-structure interactions in bridge dynamics 10 p1506 N84-19853
TING, T. C. T.
Singularities at the tip of a crack normal to the interface of an anisotropic layered composite
[AD-A131504] 01 p0096 N84-10625
Shock waves in 3-dimensional elastic solids
[AD-A138018] 12 p1826 N84-21906
TINGLE, J.
Application of remote sensing to state and regional problems
[E84-10128] 14 p2168 N84-23986
TINGLEY, F. M.
An experimental investigation of the improvement in the reception of TM (Transverse Magnetic)-polarized LF (Low-Frequency) waves with a two-element spaced array
[AD-A142478] 20 p3175 N84-30159
TINNEY, L. R.
Knowledge-based expert systems for crop identification 21 p3428 N84-31744
The potential of AI techniques for remote sensing 21 p3428 N84-31748
TIPPLE, D. J.
Computer aided geometrical optics design
[AD-A144559] 24 p3963 N84-35099
TIPTON, D. G.
Corrosion fatigue of high strength fastener materials in seawater
[NASA-CR-174677] 17 p2723 N84-27328
TIPTON, R.
Equations of state of PBX-9404, LX-07, and RX-26-AF detonation products at pressures above detonation pressure
[DE84-002465] 09 p1290 N84-18424
TIPTON, S. L.
Navy tactical applications guide. Operational environmental satellites. Polar-orbiting satellites geostationary satellites, spacecraft, sensors, imagery
[AD-A135486] 08 p1113 N84-17240
TIRA, J. S.
Continuous plasma treatment and resin impregnation of a high-strength fiber material
[DE84-000314] 04 p0492 N84-13229
TIROSH, J.
The effects of moisture on fracture toughness and thermal relaxation of stretched acrylic plastics
[AD-P003197] 17 p2591 N84-26610
TIRPAK, J. D.
Revision of design values for 7075-T7351 and 7075-T7651 aluminum plate
[AD-A139092] 13 p1961 N84-22740
TIRRE, W. C.
Individual differences in learning rate
[AD-P003338] 18 p2911 N84-28462
TIRSELL, G.
Experiments to study the feasibility of making an X-ray laser at the Novette laser facility
[DE83-015615] 03 p0380 N84-12476
TIRUMALAI, S. S.
The influence of grain structure, testing temperature and environment on the monotonic and low cycle fatigue behavior of a high strength aluminum-copper-lithium alloy 23 p3716 N84-33556
TISATO, F.
CONSTRUCT: A tool for programming in the large 05 p0722 N84-14733
TISCHER, H.
Electron excitation of vibrational states of D2 and H2 and detection of excited states by laser-induced fluorescence
[AD-A141038] 18 p2846 N84-28070
TISCHER, K.
En route/terminal ATC (Air Traffic Control) operations concept
[AD-A138991] 13 p1929 N84-22550
TISCHLER, J. Z.
Standard format for data films
[DE84-000345] 04 p0616 N84-14068
TISCHLER, M. B.
Helistat simulation studies
[NASA-CR-166567] 11 p1614 N84-20564
Identification and verification of frequency-domain models for XV-15 tilt-rotor aircraft dynamics
[NASA-TM-86009] 24 p3856 N84-34445
TISCHLER, M. E.
Metabolic alterations caused by suspension hypokinesia in leg muscles of rats 09 p1354 N84-18848
TISLENKO, V. I.
Evaluation of the limiting accuracy in determining the coordinates of a point light source by a television tracking system using an image dissector with the presence of a nonstationary current component 22 p3571 N84-32613
TISON, R. R.
Study of systems and technology for liquid hydrogen production independent of fossil fuels
[NASA-CR-173422] 13 p1965 N84-22768
TISUE, M.
Geology hydrology and mineral resources of crystaline rock areas of Northeastern US
[DE84-013671] 21 p3432 N84-31774
Geology, hydrology, and mineral resources of crystalline rock areas of the Lake Superior region, US, part 1
[DE84-012682] 21 p3432 N84-31775
Geology, hydrology, and mineral resources of crystalline rock areas of the northeastern United States
[DE84-013672] 22 p3614 N84-32901
Crystalline rocks of the Northeastern United States
[DE84-013673] 22 p3624 N84-32962
Crystalline rocks of the Lake Superior region, United States, part 2
[DE84-014802] 23 p3799 N84-34087
TITMUSS, G. E.
Correlation between the meteorological parameters and the optical strength of atmospheric turbulence close to the ground. Part 3: Results
[BAE-BT-10771] 13 p2016 N84-23070
TITOV, G. A.
Accuracy of one approximate method for computing radiative fluxes in presence of broken clouds 20 p3225 N84-30491
TITOVA, N. A.
Realization of human work capacity: Interdisciplinary problems 21 p3454 N84-31920
TITRAN, R. H.
Creep-rupture behavior of candidate Stirling engine alloys after long-term aging at 760 deg C in low-pressure hydrogen
[NASA-TM-83676] 16 p2464 N84-25793
Advanced high temperature materials for the energy efficient automotive Stirling engine
[NASA-TM-83659] 19 p2992 N84-28963
Evaluation of candidate Stirling engine heater tube alloys after 3500 hours exposure to high pressure doped hydrogen or helium
[NASA-TM-83782] 24 p3883 N84-34803
TITTMANN, B. R.
Detection of closed internal fatigue cracks
[DE83-017686] 04 p0549 N84-13620
TITZE, B.
Photodissociation of H2O at 15 nm: State distribution and spatial orientation of the OH (x2pi) decay products
[MPIS-5/1984] 23 p3715 N84-33552
TIURI, M.
Observations of variable millimeter wave radio sources at Metsaehovi 09 p1413 N84-19245
Measurements of the solar 160 min oscillation at the Metsaehovi radio research station in 1980-1982 and comparison with the results at the Crimean Astrophysical Observatory
[REPT-S-138] 09 p1416 N84-19268
TIURI, M. E.
Feed system for the Metsaehovi cooled 75-95 GHz receiver
[REPT-S-146] 15 p2328 N84-24978
TIURYN, J.
Process algebra semantics for queues
[MC-IW-241/83] 13 p2037 N84-23219
TIWARI, S. N.
Application of the method of lines for solutions of the Navier-Stokes equations using a nonuniform grid distribution
[NASA-CR-173180] 07 p1060 N84-16870
Analysis of longwave radiation for the Earth-atmosphere system
[NASA-CR-173155] 08 p1143 N84-17437
A modified lifting line theory for wing-propeller interference
[NASA-CR-173324] 09 p1252 N84-18171
Accurate evaluation of homogenous and nonhomogeneous gas emissivities
[NASA-CR-173307] 09 p1277 N84-18340
Interaction of two-dimensional transverse jet with a supersonic mainstream
[NASA-CR-175446] 11 p1602 N84-20492
Implementation of uniform perturbation method for potential flow past axisymmetric and two-dimensional bodies
[NASA-CR-173829] 20 p3125 N84-29851

TIZARD, J. A.
The European Transonic Windtunnel (ETW)
14 p2094 N84-23566

TIZZANI, V.
Experimental evaluation of the interference of a frequency hopping signal on a television signal
10 p1478 N84-19659

TJERNBERG, J.
A computer program for mapping regions in a geographic data base with raster structure
[FOA-C-20529-D8] 15 p2390 N84-25340

TKACHENKO, A. I.
Orientation and calibration of three-dimensional tachometer with aid of available angle data
17 p2651 N84-26954

TKACHENKO, T. V.
Producing thermomagnetic alloy by powder metallurgy
[BLL-M-35668-(5828.4)] 22 p3553 N84-32500

TKACHEVA, L. A.
Calculation of apparent masses in blade ring
13 p1971 N84-22793

TKHABISIMOV, D. K.
Automated search for control images on photographs of Earth's surface using spectral analysis
19 p2978 N84-28674

TNNENBAUM, M. J.
Correlation of superconductor strand, cable, and dipole critical currents in CBA magnets
[DE83-003951] 02 p0214 N84-11400

TO, C. W. S.
The response of nonlinear structures to random excitation
21 p3418 N84-31678

TOBAK, M.
On issues concerning flow separation and vortical flows in three dimensions
03 p0321 N84-12100
Bifurcation analysis of aircraft pitching motions near the stability boundary
[NASA-TM-85881] 08 p1097 N84-17137
Mathematical modeling of the aerodynamic characteristics in flight dynamics
[NASA-TM-85880] 08 p1098 N84-17141
Nonlinear problems in flight dynamics
[NASA-TM-85940] 16 p2439 N84-25648

TOBIAS, C. A.
Roles of ionizing radiation in cell transformation
[DE84-013397] 22 p3629 N84-32995

TOBIAS, C. W.
Effect of hydrodynamic flow on the morphology of electrodeposited zinc
[DE84-001816] 05 p0651 N84-14281
Mass transfer at gas-evolving surfaces in electrolysis
[DE84-002567] 05 p0651 N84-14282

TOBIAS, D. A.
Field maintenance of radiation-shielding windows at HFEF
[DE83-015376] 04 p0507 N84-13326

TOBIAS, I.
New materials for organic photovoltaic cells
[DE83-016845] 03 p0404 N84-12645

TOBIAS, L.
Mixing 4D-equipped and unequipped aircraft in the terminal area
11 p1616 N84-20577

TOBIAS, R. H.
Effect of interfacial bonding on the strength of adhesion of elastomers. 3: Interlinking by molecular entanglements
[AD-A138760] 13 p1983 N84-22757

TOBIN, R. G.
Vibrational spectroscopy of chemisorbed molecules by infrared emission
[DE84-000956] 04 p0602 N84-13973
Vibrational spectra of CO on Ni(100) studied by infrared emission spectroscopy
[DE84-009246] 21 p3362 N84-31327

TOBIN, S. P.
Development of GaAs/Si and GaAs/Si monolithic structures for future space solar cells
19 p3046 N84-29327

TODA, N.
Aerodynamic characteristics of fan-jet STOL aircraft
[NAL-TR-790] 16 p2440 N84-25651

TODA, S.
Buckling strength of corrugated shear webs
[NAL-TR-759] 09 p1330 N84-18684

TODD, A. M. M.
Monte Carlo study of ICRF start-up and sustained mode operation in tandem mirrors
[DE84-005806] 11 p1738 N84-21338
Monte Carlo studies of tandem mirror plasmas interacting with waves in the Ion Cyclotron Range of Frequencies
[DE84-006901] 18 p2934 N84-28605

TODD, M. J.
Thermal conductance and torque of thin section four-point contact ball bearings in vacuum
[ESA-ESTL-54] 06 p0853 N84-15562
Computational methods for ball bearings in spacecraft
09 p1295 N84-18466
Torque properties of oscillating, dry-lubricated ball bearings in vacuum
[ESA-ESTL-57] 23 p3758 N84-33820

TOEDHEIDE, K.
Thermal properties of binary aqueous solutions at high temperatures and high pressure
[BMFT-FB-T-83-217] 12 p1794 N84-21701

TOERROENEN, K.
Reactor pressure vessel steels ASME SA 533B and SA508.C1.2: Microstructural investigations
[VTT-RR-219] 07 p0977 N84-16333
A microstatistical model for carbide induced cleavage fracture
[VTT-RR-220] 07 p1017 N84-16599

TOFFALES, C.
Spas color camera
[NASA-CR-171739] 08 p1161 N84-17559

TOFFER, H.
Vibration monitoring using a computer-network approach
[DE83-012123] 02 p0232 N84-11523

TOGAI, M.
A study of fuzzy relations and their inverse problem
[AD-P002365] 14 p2194 N84-24156

TOGLIATTI, G.
Analysis of the metric camera black and white images over Italy
23 p3764 N84-33859

TOH, C. H.
Process modeling of sheet metal forming of general shapes by the finite element method based on large strain formulation
23 p3716 N84-33557

TOI, K.
Start-up and quasi-stationary drive of plasma current by lower hybrid wave in the JPII T-IIU Tokamak
[IPPJ-667] 15 p2409 N84-25461
Impurity origin during ICRF heating in JIPP T-IIU Tokamak
[IPPJ-682] 23 p3827 N84-34271
Visible-light imaging MHD studies of the edge plasma in the JIPP-T-IIU Tokamak
[IPPJ-683] 23 p3827 N84-34272

TOI, T.
A method for manufacturing a polyether halohydrin polymer and its derivatives
[AD-A130083] 02 p0199 N84-11298

TOIBANA, Y.
Hot-pressed silicon nitride with various lanthanide oxides as sintering additives
[NASA-TM-77424] 19 p2985 N84-28916

TOKAR, L. G.
Procedure for determination of damping capability of turbomachine blades subjected to heat and centrifugal forces
17 p2642 N84-26905

TOKAR, M. Z.
Plasma in diverter during intense recycling
20 p3288 N84-30877

TOKAR, R. L.
Whistler mode turbulence generated by electron beams in Earth's bow shock
[NASA-CR-173143] 07 p1034 N84-16707
Whistler mode turbulence at Earth's bow shock: Generation via electron beams and ray path integrated amplification
17 p2726 N84-27349

TOKOVOI, O. K.
Optimum dimensions of solid zirconium dioxide-base electrolyte in transducer of activity meter
08 p1234 N84-18064

TOKSOZ, M. N.
Development of ultrasonic modeling techniques for the study of crustal inhomogeneities
[AD-A134501] 08 p1187 N84-17738
Effects of lateral heterogeneities on the propagation, scattering, and attenuation of the seismic waves and the characterization of the seismic source
[AD-A140595] 17 p2727 N84-27359

TOKUDA, A. R.
Inversion of experimental optical data
[AD-A138979] 13 p2043 N84-23257

TOKUOKA, Y.
Magnetic record support
[NASA-TM-77619] 24 p3902 N84-34709

TOLA, R.
Improvement of the equipment of very long horizontal tensile test bench
[CETIM-5.510.05] 21 p3424 N84-31724

TOLBERT, R. N.
Stiffness properties for dynamic modeling of composite graphite-epoxy cylindrical orthotropic shells
06 p0932 N84-16054

TOLENTINO, L. U.
Fast optical position-sensitive detector for McPherson ESCA-36
[AD-A132606] 05 p0685 N84-14501

TOLER, J. C.
Operational evaluation of a new 435-mHz radiation facility
[AD-A138474] 12 p1773 N84-21564

TOLESHOV, A. K.
Explosion parameters of ferroalloy dusts
[BLL-M-35571-(5828.4)] 20 p3165 N84-30102

TOLL, D. L.
Impact of Thematic Mapper sensor characteristics on classification accuracy
20 p3213 N84-30410
LANDSAT-4 Thematic Mapper scene characteristics for a suburban and regional test site
20 p3216 N84-30429

TOLLBOM, B.
Air blast loadings on building elements from detonating 8.4 Kg Comp high explosive charges
[FOA-C-20522-D4] 15 p2349 N84-25102

TOLLE, F. F.
Integrated aircraft fuel tank inerting and compartment fire suppression system. Volume 2: Evaluation of nitrogen-enriched air as a fire suppressant
[AD-A134883] 08 p1101 N84-17157
Electrostatic safety with explosion suppressant foams
[AD-A137503] 10 p1424 N84-19314

TOLLER, D. F.
Multi-small hole drilling by EDM
[PNR-90184] 13 p1975 N84-22813
Laser drilling of aero engine components
[PNR-90185] 13 p1996 N84-22956

TOLLER, E.
Data base dependent aggregation operators in a map oriented information system
[FOA-C-30347-E1] 15 p2417 N84-25514

TOLLES, W. M.
A summary of the Naval Postgraduate School Research Program
[AD-A132871] 05 p0766 N84-15024

TOLLEY, H. D.
Weighted nonparametric tail estimation procedures
[DE83-017870] 03 p0428 N84-12804

TOLLIVER, J. S.
Ambipolarity and transport with resonant ion diffusion in EBT
[DE84-000333] 04 p0606 N84-14000

TOLMAN, B. W.
The polarization and anisotropy on large angular scales of the microwave background radiation in homogeneous cosmologies
02 p0306 N84-12007

TOLOKONNIKOV, V. I.
Dependence of realizability of selective mass transfer during friction of aluminum bronzes against steel on composition of lubricating fluid
17 p2641 N84-26901

TOLSTIKHIN, V. I.
Modelling of transfer processes in monopolar semiconductor structures with submicron dimensions
21 p3381 N84-31453

TOLSTIKOV, G. I.
Calculation of the life of components of metallurgical equipment from the parameter of failure probability
[BLL-M-35351-(5828.4F)] 04 p0545 N84-13594

TOLSTOGUZOV, N. V.
The practical use of data as to the solution enthalpies of molten Fe-V-Si
[BLL-M-35430-(5828.4)] 08 p1129 N84-17342

TOLSTOY, A.
The influence of localized precipation-induced D-region ionization enhancements on subionospheric VLF progation
17 p2726 N84-27348

TOLSTYKH, G. N.
Effect of certain geometrical parameters on metrological characteristics of multichamber black body
17 p2637 N84-26871

TOLY, N. F.
Manipulator having thermally conductive rotary joint for transferring heat from a test specimen
[DE84-010958] 20 p3186 N84-30242

TOMAK, M.
Elementary excitations and quasi-two-dimensional behaviour in a GaAs field effect transistor
[DE84-701190] 24 p3967 N84-35122
Impurity states in the presence of an interface
[DE84-701192] 24 p3967 N84-35123

TOMANDL, G.
Thermal diffusion in glass melts
[BMFT-FB-W-83-033] 12 p1802 N84-21751

TOMANTSCHGER, K.
The design and testing of an electrolyte destratification system applied to a 96 V Alco 2200 battery
[PB84-184894] 20 p3237 N84-30550

TOMASHOV, N. D.
Electrochemical behavior of amorphous titanium-based alloy after various annealing conditions
24 p3875 N84-34555

TOMASSETTI, G.
Transhorizon microwave propagation measurements related to surface meteorological parameters
15 p2325 N84-24964
TOMCZYK, S.
The analysis of solar models: Neutrinos and oscillations
[NASA-CR-173628] 17 p2780 N84-27652
TOMEI, F.
The role of microorganisms in marine corrosion processes
[AD-A133113] 06 p0885 N84-15757
TOMEK, W.
Fundamental research for production of high polymers on synthesis gas basis
[BMFT-FB-T-84-075] 19 p3001 N84-29016
TOMILIN, I. A.
Thermodynamic estimation of influence of alloying on sticking fault energy of bcc metals
[BLL-M-30130-(5828.4)] 01 p0151 N84-10995
TOMISAWA, Y.
Embrittlement of steels due to galvanizing or coating with zinc paint: An investigation of embrittlement in welding or heating operations
[AERE-TR-4774] 06 p0805 N84-15244
TOMKIEWICZ, M.
Impedance relaxation spectrum analysis of oxidized silver electrodes
[AD-A138380] 12 p1793 N84-21693
Study of the initial stages of anodic oxidation of polycrystalline silver in KOH solutions
[AD-A138381] 12 p1793 N84-21694
Porous electrodes 1: Numerical simulation using random network and single pore models
[AD-A138382] 12 p1793 N84-21695
TOMKO, J. J.
Effects of different rub models on simulated rotor dynamics
[NASA-TP-2220] 08 p1166 N84-17590
TOMKO, R. P.
Advanced photovoltaic system simulator to demonstrate the performance of advanced photovoltaic cells and devices
[DE83-009405] 08 p1180 N84-17688
TOMLINSON, G. A.
The growth of paracoccus halodenitrificans in a defined medium
[NASA-TM-84411] 01 p0111 N84-10724
TOMLINSON, J. J.
PCMSOL-1: A computer simulation code for a direct gain passive solar structure. Part 2: PCMSOL-1 users guide
[ORNL/CSD-127/P-2] 23 p3790 N84-34040
TOMLINSON, J. P.
An evaluation of the system 2000 data base management system for use in major item system mapping
[DE84-013130] 21 p3519 N84-32296
TOMLINSON, M. J.
RSRE speech data base recordings (1983). Part 1: Specification of vocabulary and recording procedure
[AD-A139361] 15 p2318 N84-24916
TOMLINSON, P. N.
The current status of diamond and cubic boron nitride composites 09 p1292 N84-18441
TOMLINSON, R. F.
Review and synthesis of problems and directions for large scale geographic information system development
[NASA-CR-166563] 10 p1525 N84-19988
TOMLINSON, W. J.
Nonlinear optical interfaces 14 p2233 N84-24396
TOMPKINS, F. G.
Guidelines for developing NASA (National Aeronautics and Space Administration) ADP security risk management plans
[NASA-CR-173564] 16 p2542 N84-26317
Guidelines for development of NASA (National Aeronautics and Space Administration) computer security training programs
[NASA-CR-173562] 16 p2542 N84-26318
Guidelines for contingency planning NASA (National Aeronautics and Space Administration) ADP security risk reduction decision studies
[PB84-189836] 20 p3268 N84-30737
TOMPKINS, H. G.
Research needs for the use of polymer coatings for corrosion protection
[DE83-015443] 01 p0051 N84-10328
Use of surface and thin film analysis techniques to study metal-organic and metal-polymer interaction
[DE84-012542] 21 p3361 N84-31321
Surface modification and coatings: A technical assessment
[DE84-012483] 21 p3372 N84-31396
TONAKANOV, B. A.
Procedure for calculation of stages with operational direct-current amplifiers 17 p2634 N84-26853
TONER, M. M.
The energy cost and heart rate response of trained and untrained subjects walking and running in shoes and boots
[AD-A131420] 01 p0113 N84-10735
Aerobic fitness and the hypohydration response to exercise-heat stress
[AD-A132263] 05 p0713 N84-14669
TONG, A. Y.
Vaporization of synthetic fuels
[DE84-006556] 12 p1803 N84-21755
TONG, C. H.
Irradiation response in titanium-modified austenitic stainless steels prepared by rapid-solidification processing. Part 3. A model for the effect of titanium addition
[DE84-001296] 04 p0500 N84-13281
Irradiation response in titanium-modified austenitic stainless steels prepared by rapid-solidification processing. Part 2. Dual-ion irradiations
[DE84-001297] 04 p0500 N84-13282
TONG, H. M.
A laser image generation system for helicopter Nap-Of-the-Earth (NOE) flight training
[AD-P003481] 21 p3512 N84-32248
TONG, T. W.
Development of advanced thermal insulation for appliances
[DE84-013132] 22 p3594 N84-32763
TONOLINI, F.
An instrument for the characterization of defects in ultrasonic inspections
[CISE-2073] 05 p0690 N84-14533
The use of microprocessors for the instrumentation of nondestructive tests
[CISE-2072] 06 p0855 N84-15571
TOOHEY, R.
Hermetic single longitudinal mode CW lasers coupled to single mode optical fiber pigtails
[AD-A143626] 23 p3754 N84-33792
TOOMRE, J.
Theoretical and experimental studies in support of the geophysical fluid flow experiment
24 p3923 N84-34832
TOOMSOO, J.
Work of Estonian Astrophysics and Atmospheric Physics Institute described 01 p0056 N84-10364
TOONG, T. Y.
Ignition and unsteady flame propagation in turbulent reactive flows
[AD-A136450] 09 p1279 N84-18349
TOPALOGLOU, A.
Poly (ADP-ribose) in nucleoids
[OEFZS-4267] 18 p2900 N84-28399
TOPPILA, S.
On the growth of the spherical derivative of a meromorphic function 04 p0575 N84-13785
TOPPIN, K. W.
Water resources data for New Hampshire and Vermont, Water Year 1982
[PB84-161868] 14 p2170 N84-24000
TOPPLER, J. F.
West breakwater-Sines (Portugal). Overview of rehabilitation and synthesis of project
08 p1194 N84-17786
TORABI, A.
Infrared absorption spectrum of free carriers in polar semiconductors
[DE84-013276] 22 p3667 N84-33248
TORBERT, R. B.
Anomalously high potentials observed on ISEE
[NASA-CR-172791] 08 p1115 N84-17252
Anomalously high potentials observed on ISEE
08 p1116 N84-17258
TORBETT, M. V.
Orbital resonances and planetary accretion in the early solar system evolution 02 p0307 N84-12016
TORDELLA, J.
Development of a calorimeter forimultaneously measuring heat release and mass loss rates
[PB83-222711] 01 p0085 N84-10555
TORGE, W.
Validation of SEASAT-1 altimetry using ground truth in the North Sea region
[SER-B-263-MITT-166] 08 p1179 N84-17681
Gravimetry 10 p1519 N84-19948
Computation of a high resolution European Gravimetric Geoid (EGG 1) 17 p2727 N84-27356
TORIGOE, R. M.
Corrosion control for reinforced concrete
[AD-A139974] 15 p2317 N84-24909
TORIYA, H.
An enhanced Oct-tree data structure and operations for solid modeling 12 p1874 N84-22214
TORKAR, K. M.
Measurement of nitric oxide in the equatorial D-region and other relevant parameters
[IWF-8304] 17 p2728 N84-27385
TORLEGAARD, K.
Photogrammetric research at the Royal Institute of Technology, Stockholm, Sweden
15 p2358 N84-25147
Mathematical aspects of digital terrain information. A progress report from ISPRS Working Group III:3
15 p2358 N84-25148
The question of accuracy in the transition from analogue to analytic photogrammetry 15 p2359 N84-25153
Multi-models to increase accuracy
15 p2359 N84-25154
Geometrical testing of X, Y plotters
15 p2359 N84-25155
TORNATZKY, L. G.
The process of technological innovation: Reviewing the literature 16 p2566 N84-26466
TORNUYEV, Y. V.
Study of spatial asymmetry in human external electrical field 21 p3456 N84-31932
TORO, E. F.
Transition bifurcation branches in non-linear water waves
[CAR-8418] 21 p3398 N84-31556
TOROK, E. J.
Magneto-optic garnet and liquid crystal optical switches 12 p1905 N84-22410
TORRADAS, J. M.
Homopolymer-induced microphase separation of a homogeneous diblock copolymer
[AD-A133069] 05 p0660 N84-14337
TORRECILLAS, A. S.
Pressure filtration of ceramic pastes. 4: Treatment of experimental data
[NASA-TM-77454] 19 p2997 N84-28992
TORRES, J.
Development of a slotted waveguide array panel for SAR antenna: Electrical design and testing
[IEC-MO-80/11] 23 p3732 N84-33656
TORRES, M.
Nondestructive testing of composite structures
[SNIAS-832-210-108] 16 p2500 N84-26045
TORRES, W. F. J.
Aggradation and degradation at alluvial-channel beds
[PB84-201557] 22 p3615 N84-32905
TORRICELLI-CIAMPONI, G.
Alfven wave dissipation in the solar wind
[IFSI-84-7] 18 p2953 N84-28718
TORSANI, J. A.
Meteorological database
[INPE-2790-PRE/353] 09 p1399 N84-19135
A system for managing meteorological data
[INPE-3029-PRE/466] 17 p2733 N84-27373
TORTORA, R.
In the labyrinth of many valued logics
[AD-P002331] 14 p2190 N84-24122
TORTORELLI, P. F.
Mass transfer behavior of a modified austenitic stainless steel in lithium
[DE84-000338] 04 p0502 N84-13293
Liquid metal corrosion considerations in alloy development
[DE84-008512] 18 p2815 N84-27868
TORVEN, S.
Spontaneous transfer of magnetically stored energy to kinetic energy by electric double layers
[TRITA-EPP-83-05] 02 p0297 N84-11949
TOSCANO, E. B.
Low-cost insulator
[AD-A139903] 15 p2284 N84-24709
TOSCANO, G.
The elements of the rotation matrices in terms of Rodriguez's parameters
[AD-A136550] 09 p1376 N84-18988
TOSELLI, F.
Passive radiometry and other remote sensing data interpretation for oil slick thickness assessment, in an experimental case 03 p0399 N84-12609
TOSI, M. P.
Ground-state properties and optical excitations of a solvated electron in molten alkali halides
[DE84-701191] 24 p3881 N84-34587
Theory of the interface between a classical plasma and a hard wall
[DE84-701221] 24 p3966 N84-35111
TOTH, J. F.
Wideband microstrip ring radiator
[AD-P003507] 21 p3384 N84-31475
TOTH, S.
Tesla computer semiconductor memory
18 p2918 N84-28501

TOTH, W. J.
Survey and assessment of heat of reaction type chemical heat pumps
[DE84-010986] 21 p3401 N84-31576
TOTSCH, J. P.
Implementing automated information systems in the Air Force
[AD-A143398] 22 p3674 N84-33288
TOUCHSTONE, R. M.
Rate of initial recovery and subsequent radar monitoring performance following a simulated emergency involving startle
[AD-A133602] 06 p0892 N84-15795
TOULEMONT, Y.
Thermal control of the SPOT HRV instrument
10 p1445 N84-19441
TOULIOS, M.
Initiation and propagation of shear bands in antiplane shear deformation
[AD-A140741] 17 p2624 N84-26794
TOUNISSOUX, D.
Some aspects in pattern recognition
09 p1412 N84-19238
TOURATIER, M.
Velocities of guided ultrasonic waves in heterogeneous medium
[NASA-TM-77445] 14 p2221 N84-24325
TOURGENEV, I. S.
The time-spatial structure of microwave radio fields on line-of-sight overwater paths
[REPT-220] 17 p2651 N84-26955
TOWER, J. R.
Multispectral linear array visible and shortwave infrared sensors 23 p3781 N84-33977
TOWILL, B. P.
The cyclic behaviour of a powder Ni-base superalloy
[PNR-90182] 13 p1961 N84-22743
TOWNE, C. E.
Computation of viscous flow in curved ducts and comparison with experimental data
[NASA-TM-83548] 04 p0532 N84-13494
TOWNE, D. M.
A performance-based technique for assessing equipment maintainability
[AD-A133518] 06 p0894 N84-15809
TOWNEND, L. H.
General introduction. Part 1: The waverider. Origins, evolution and applications. Part 2: Waverider aero-and aerothermodynamics. Part 3: Configuration design. Reentry gliders. Part 4: Configuration design. Cruise/ramjet vehicles 16 p2442 N84-25667
TOWNES, C. H.
Far-IR spectroscopy of the galactic center: Neutral and ionized gas in the central 10 pc of the galaxy
[NASA-CR-166510] 13 p2070 N84-23411
Detection of shocked atomic gas in the Kleinmann-Low nebula
[NASA-TM-85967] 16 p2574 N84-26523
TOWNES, S. A.
A study of the charged particle calibration requirements for the Deep Space Network 04 p0519 N84-13414
TOWNLEY, C. T.
The perceptual component of relationships in library networks 06 p0934 N84-16070
TOWNSEND, D.
Liquid impact erosion mechanisms in transparent materials
[AD-A135891] 09 p1287 N84-18405
TOWNSEND, D. P.
Status of understanding for gear materials
15 p2342 N84-25061
Parameter studies of gear cooling using an automatic finites element mesh generator
[NASA-TM-83721] 18 p2849 N84-28087
An investigation of the transient thermal analysis of spur gears
[NASA-TM-83724] 18 p2849 N84-28088
Lubricant jet flow phenomena in spur and helical gears with modified center distances and/or addendums for out-of-mesh conditions
[NASA-TM-83723] 19 p3031 N84-29224
TOWNSEND, F. C.
Centrifugal scaling laws for ground launch cruise missile shelter
[AD-A141572] 19 p2969 N84-28818
TOWNSEND, J. C.
Interactive graphics for quick-geometry modeling
12 p1872 N84-22202
TOWNSEND, J. F.
A computer calculation and display station for slosh hurricane surge model data
[PB84-198753] 21 p3449 N84-31887
TOWNSEND, L. W.
Ablation effects in oxygen-lead fragmentation at 2.1 GeV/nucleon
[NASA-TM-85704] 07 p1074 N84-16977
Neon transport in selected organic composites
[NASA-TM-85693] 08 p1231 N84-18044
An abrasion-ablation model description of galactic heavy-ion fragmentation
[NASA-TP-2305] 12 p1903 N84-22396
Galactic heavy-ion shielding using electrostatic fields
[NASA-TM-86265] 23 p3700 N84-33453
TOWNSEND, T. E.
Discrimination of iron alteration minerals in remote sensing data 21 p3425 N84-31727
TOWNSEND, T. L.
The influence of convective activity on the vorticity budget
[NASA-CR-3752] 04 p0567 N84-13736
TOWNSEND, W. B.
Artificial intelligence techniques for industrial applications in job shop scheduling
[AD-A132164] 04 p0586 N84-13867
TOWNSHEND, J. R. G.
The use of thematic mapper data for land cover discrimination: Preliminary results from the UK SATMaP programme
[E84-10038] 04 p0551 N84-13631
The use of Thematic Mapper data for land cover discrimination: Preliminary results from the UK Satmap programme 20 p3216 N84-30428
TOWSEND, S. W.
Time-dependent oscillations in a CW HF chemical laser unstable resonator
[AD-A142966] 21 p3409 N84-31622
TOWSHEND, J. R.
The United Kingdom SATMaP program
[E84-10002] 04 p0551 N84-13627
TOYAMA, K.
Seismic behavior of steel bent-bracing system
[PB83-224840] 01 p0061 N84-10399
TOYNE, G. B.
All-electric accessory drive systems: Implications on engine design and performance
03 p0336 N84-12184
TOYODA, M.
Note on standardization of implant tests
[VTT-RR-189] 02 p0198 N84-11288
Determination of weld hydrogen content
[VTT-240] 15 p2296 N84-24777
TOZUKA, S.
The effect of ice temperature on regelation velocities
15 p2353 N84-25113
TRAAS, D. W.
Fibrinogen, plasminogen and tissue-type plasminogen activator: Their role in the fibinolytic system
23 p3804 N84-34121
TRABALKA, J. R.
Joint hearing on carbon dioxide and the greenhouse effect. Testimony presented to Subcommittee on Natural Resources, Agriculture Research and Environment and Subcommittee on Investigations and Oversight of the Science and Technology Committee, US House of Representatives
[DE84-007527] 15 p2372 N84-25230
An analysis of possible future atmospheric retention of fossil fuel CO-2
[DOE/OR-21400/1] 23 p3793 N84-34054
TRABOCCO, R. E.
Natural weathering of selected organic matrix composites
[AD-A144091] 23 p3711 N84-33527
TRABUCHODECAMPOS, L. M.
Relaxation, regularity and operator theoretical methods for a class of problems in nonlinear elastostatics
11 p1666 N84-20871
TRACY, F. T.
Computer-Aided Structural Engineering (CASE) project. User's guide: Computer program to Calculate Shear, Moment and Thrust (CSMT) from stress results of a two-dimensional finite element analysis
[AD-A134089] 05 p0726 N84-14768
User's guide: Interactive graphics computer program for contouring randomly spaced data
[AD-A135861] 09 p1367 N84-18927
TRAD, L. A.
Prevention of acute mountain sickness by dexamethasone
[AD-A131533] 01 p0114 N84-10737
Physiological responses to prolonged upper body exercise
[AD-A134811] 08 p1200 N84-17826
TRAEGER, R. K.
Technology transfer revisited
[DE84-012233] 21 p3519 N84-32293
TRAGER, F.
Spectroscopy of adsorbates by transient laser calorimetry
[AD-A144473] 24 p3880 N84-34584
TRAHAN, D. B.
Base line for determining local, small-scale vertical movements in Louisiana
[DE84-002569] 05 p0704 N84-14619
TRAHAN, K. W.
Computer-Aided Structural Engineering (CASE) project. User's guide: Computer program to Calculate Shear, Moment and Thrust (CSMT) from stress results of a two-dimensional finite element analysis
[AD-A134089] 05 p0726 N84-14768
TRAINOR, P. G. S.
Static and dynamic behavior of mechanical components associated with electrical transmission lines
10 p1505 N84-19844
TRAINOR, R. J.
Single-mode fiber-optic sensor for high currents
[DE83-014163] 02 p0295 N84-11933
Theoretical and experimental studies of shock-compressed benzene and polybutene
[DE83-015884] 03 p0430 N84-12816
Aluminum as a global high-pressure equation-of-state standard
[DE84-000153] 04 p0501 N84-13287
A convective mechanism for inhibition of heat conduction in laser produced plasmas
[DE84-011336] 20 p3194 N84-30289
TRAKHTENGERTS, V. Y.
Alfven masers 05 p0636 N84-14182
TRAN-CONG, T.
An application of the finite element method to the solution of low Reynolds number, incompressible flow around a Joukowski aerofoil, with emphasis on automatic generation of grids
[AD-A133008] 05 p0628 N84-14127
TRAN, C.
Siloxane modifiers for epoxy resins
[AD-A136782] 10 p1467 N84-19582
TRAN, K. T.
Design, test, and evaluation of an Air Force environmental model and data exchange
[AD-A143226] 22 p3638 N84-33060
TRAN, T.
Approximating the level probabilities in order restricted inference: The simple tree ordering
[AD-A140684] 17 p2760 N84-27525
TRAPANI, R.
A 2-phase flow model for the diffused cavitation study
[CISE-2109] 07 p1004 N84-16514
TRAPP, D. L.
Cost realism: Assuring more realistic contractor cost proposals
[AD-P002800] 13 p2058 N84-23346
TRAPP, R. L.
Issues critical to the application of adaptive array antennas to missile seekers
[AD-A133401] 06 p0824 N84-15371
TRAPPENIERS, N. J.
Investigation of multiple scattering contributions to the depolarization of light scattered by carbon dioxide and xenon in the critical region. Part 3: Comparison between theory and experimental results
[VDW-PUBL-287] 19 p3105 N84-29731
TRASK, R. P.
The long term upper ocean study (LOTUS). Cruise summary and hydrographic data report, ENDEAVOR 97, April 1983
[AD-A134005] 06 p0883 N84-15745
TRATTNIG, W.
EDDA: A very high level data flow specification language 05 p0722 N84-14735
TRAUB, W. A.
Measurement of H2O and other trace gases in the stratosphere using a high resolution far-infrared spectrometer at 28 km
[NASA-CR-173879] 22 p3622 N84-32951
TRAUTH, R.
Gas-turbine demonstration of pyrolysis-derived fuels
[DE83-013610] 01 p0053 N84-10342
TRAUTNER, S.
Handling of hydrazine in the Royal Danish Air Force
22 p3631 N84-33014
TRAVASSOS, R. H.
A systolic signal processor for recursive filtering
09 p1402 N84-19156
TRAVERSI, A. L.
Sediment radioactivity in the stretch of the Po river from Monte Trino to Valle Caorso: Some results for the period 1978-82
[CISE-2071] 05 p0701 N84-14600
TRAVESI, A.
Code BETAL to calculation Alpha/Beta activities in environmental samples
[JEN-549] 04 p0578 N84-13816

TRAVIN, O. V.
Kinetics of corrosion of alloys of vanadium-chromium system in phosphoric acid
[BLL-M-35560-(5828.4)] 17 p2621 N84-26771
TRAVIS, J. R.
Hydrogen transport, mixing, and combustion studies
[DE84-012455] 21 p3360 N84-31317
TRAVIS, M. A.
Interactive computer graphics for system analysis
[AD-A138025] 12 p1879 N84-22250
TRAXLER, M. R.
Telecommunications and data acquisition systems support for Voyager missions to Jupiter and Saturn, 1972-1981, prelaunch through Saturn encounter
[NASA-CR-174571] 02 p0183 N84-11186
Telecommunications and data acquisition support for the Pioneer Venus Project: Pioneers 12 and 13, prelaunch through March 1984
[NASA-CR-173693] 22 p3539 N84-32403
TRAXLER, R. R.
World-wide sea-surface temperatures
[AD-A131892] 03 p0411 N84-12689
TREADWAY, M.
Literature review of spacecraft charging
[AD-A140543] 16 p2458 N84-25761
TREADWAY, T. R.
DIGLIB for HP-1000 computers
[DE84-004741] 11 p1710 N84-21147
TREASTER, A. L.
Sidewall boundary layer corrections in subsonic, 2-dimensional airfoil-hydrofoil testing
[AD-A144002] 23 p3691 N84-33391
TREAT, B. R.
Parameter estimation for the four parameter beta distribution
[AD-A138062] 12 p1893 N84-22333
TREAT, C. L.
Nitrogen threshold experiment
15 p2427 N84-25578
TREAT, N.
Changing pattern of carbon dioxide emissions
[DE84-010086] 19 p3052 N84-29371
TREBES, D. M.
A new and unique conductive element for aircraft transparencies
[AD-P003188] 17 p2590 N84-26601
TREBINO, F. P.
Subpicosecond-relaxation studies using tunable-laser-induced-grating techniques
06 p0848 N84-15531
TREDICI, T. J.
Yellow ophthalmic filters in the visual acquisition of aircraft
[AD-A138536] 13 p2020 N84-23097
TREFETHEN, L. N.
Stability of finite difference models containing two boundaries or interfaces
[NASA-CR-172319] 11 p1712 N84-21165
TREFILOV, Y.
Spacecraft-aided aerial studies of atmosphere's electrostatic zones 18 p2864 N84-28184
TREICHEL, B. A.
Description of the ACCESS data acquisition system
[DE84-005758] 12 p1919 N84-22506
TREINISH, L. A.
Pilot climate data system: A state-of-the-art capability in scientific data management
[NASA-TM-85115] 06 p0881 N84-15731
Pilot climate data system user's guide
[NASA-TM-86084] 21 p3463 N84-31956
A general scientific information system to support the study of climate-related data
[NASA-TM-86152] 24 p3968 N84-35128
TRELLA, M.
The ESA technological research programs
24 p3903 N84-34717
TREMBLEY, N.
The FAA (Federal Aviation Administration) air traffic activity, fiscal year 1982
[PB83-228460] 01 p0008 N84-10048
FAA (Federal Aviation Administration) air traffic activity FY 1983
[AD-A142493] 20 p3127 N84-29861
TREMILLON
Composite materials: The user and the producer
[SNIAS-832-111-108] 16 p2461 N84-25772
TREMILLON, B.
Chemical and electrochemical properties in molten alkaline hydroxides. 2: Oxidising/reducing reactions of oxygen
[BLL-RISLEY-TR-4775-(9091.9F)]
01 p0036 N84-10227
No. 263 chemical and electrochemical properties in molten alkaline hydroxides. 11: Potential-acidity diagram for iron in molten sodium hydroxide at 350 deg C
[BLL-RISLEY-TR-4761-(9091.9F)]
01 p0036 N84-10228
Chemical and electrochemical properties in molten alkaline hydroxides
[BLL-RISLEY-TR-4854-(9091.9F)]
08 p1123 N84-17298
Chemical and electrochemical properties in molten alkaline hydroxides. 3: Oxide and acid complexes of some metallic cations
[BLL-RISLEY-TR-4858-(9091.9F)]
08 p1123 N84-17299
TREMOLADA, G.
Research into the electrodeposition of antimony
[BLL-OA-TRANS-3112-(6196.3)]
09 p1305 N84-18533
TREMONT, P. J.
Evaluation of eye movement training for Navy pilots
[AD-A139489] 14 p2185 N84-24091
TREMPER, W. B.
Meteorological and climatological approach in determining snowpack accumulation at snow course sites in a Montana watershed
[PB83-226852] 01 p0110 N84-10714
TRENARY, M.
Electron spectroscopy study of SiC
[AD-A134352] 07 p1080 N84-17023
TRENDLER, P. H. H.
Cold-form tapping of internal threads
09 p1292 N84-18435
TRESSLER, R. E.
Silicon carbide fiber/mullite composites from rapidly solidified aluminosilicate powder
[AD-A140529] 16 p2469 N84-25825
TRESTER, P.
Low-activation fusion-reactor design studies
[DE83-017688] 04 p0608 N84-14014
TRETTAU, R.
Data engineering systems: Computerized modeling and data bank capabilities for engineering analysis
12 p1873 N84-22203
TRETYAKOV, O. A.
Integral equations of electrodynamics in stratified media
[REPT-223] 17 p2757 N84-27501
TREUDEN, M. L.
Regular operator approximation theory
[HMI-B-389] 08 p1226 N84-18008
TREUMAN, R.
Observation of waves induced by an artificial ion beam in the ionosphere 05 p0635 N84-14176
Dynamics of quasineutral beams
05 p0639 N84-14201
TREVES, A.
Multifrequency observations of active galactic nuclei
24 p3972 N84-35152
UV observations on the variable quasar PG 1351+64
24 p3972 N84-35153
TREVESE, D.
TM failed detectors data replacement
20 p3208 N84-30382
TREW, R. J.
Heterojunction solid-state devices for millimeter-wave sources
[AD-A135389] 08 p1151 N84-17490
TREYTL, D.
Digital sound service for direct broadcasting satellites
08 p1148 N84-17462
TREZONA, P. W.
Eye spectral sensitivity and its variation with luminance level
[RAE-TR-83043] 09 p1361 N84-18892
TRGINA, R. G.
Analog fiber optics: Pragmatic considerations beyond the textbook
[AD-A137528] 12 p1908 N84-22430
TRIANTAFYLLOU, M. S.
Linear dynamics of cables and chains
13 p2000 N84-22978
A pioneer deep ocean mining venture
[PB84-199645] 21 p3433 N84-31780
TRIBBLE, L. E.
Fast optical position-sensitive detector for McPherson ESCA-36
[AD-A132606] 05 p0685 N84-14501
TRIBUNO, C.
Creep-low cycle fatigue interaction of 2 1/4 Cr 1 Mo steel at high temperature 16 p2501 N84-26051
TRICKEY, H.
Planar embedding of planar graphs
[AD-A132538] 04 p0579 N84-13820
TRICKEY, H. W.
Experience with a regular expression compiler
[AD-A135202] 08 p1209 N84-17888
TRICOLES, G.
Electromagnetic waves near dielectric structures
[AD-A132630] 05 p0670 N84-14403
TRIFTSHAEUSER, W.
Generation of monoenergetic positrons
[DE83-015535] 03 p0440 N84-12887
TRIGILA, S.
Test methodology for the level two subsystem of an X25 procedure for data terminal equipment
[FUB-3-1983] 10 p1483 N84-19694
TRIJONIS, J.
Effects of diesel vehicles on visibility in California
[PB84-122167] 08 p1184 N84-17714
TRILLAS, E.
An approach to fuzziness in the setting of Lukasiewicz logic
[AD-P002357] 14 p2193 N84-24148
TRIMARCHI, P. A.
Structural design of a vertical antenna boresight 18.3 by 18.3-m planar near-field antenna measurement system
[NASA-TM-83781] 22 p3597 N84-32783
TRIMECHE, K.
Littlewood Paley's g function associated with a singular differential operator (0, infinity) 13 p2032 N84-23180
TRINER, J. E.
Application of advanced materials to rotating machines 01 p0010 N84-10063
TRINKS, H.
Experimental exhaust plume investigation with MBB 10 N bipropellant thruster
[MBB-UR-558-84] 17 p2617 N84-26747
Exploratory testing of the MBB 10 N bipropellant engine. Volume 2: Preliminary exhaust plume investigations
[MBB-UR-561-82-VOL-2] 23 p3702 N84-33464
TRIPALIN, A. S.
The measurement of acoustic emission parameters during hydraulic loading of the Novovorenezh AES reactor vessel VVER-1000
[DRIC-T-6998] 15 p2403 N84-25421
TRIPATHI, V.
Review of ionospheric VLF and ELF generation
05 p0634 N84-14174
Wireless communication systems
[AD-A135830] 09 p1300 N84-18496
TRIPICCO, M.
Voyager feature-fixed photometry of Iapetus
13 p2074 N84-23440
TRIPOLI, G.
Model cloud relationships
[AD-A142690] 21 p3447 N84-31871
TRIPP, J. H.
Numerical methods and computers used in elastohydrodynamic lubrication
[NASA-TM-83524] 02 p0228 N84-11498
Real surface effects in elastohydrodynamic lubrication
15 p2341 N84-25052
TRIPP, L. L.
A corporate approach to an embedded software development and support standard
[AD-P003589] 21 p3340 N84-31194
TRIPP, R. D.
Problems and prospects in strange baryon spectroscopy
[DE83-018119] 04 p0496 N84-13253
TRITCHLER, W. K.
Elastic-plastic fracture toughness testing methods
[AD-A142033] 19 p3036 N84-29259
TRITSCH, D. E.
Semielliptical cracks along holes in plates and lugs
[AD-A130786] 01 p0096 N84-10622
TRIVEDI, N. B.
Are droughts predictable?
[INPE-3274-PRE/598] 24 p3923 N84-34826
TRIVEDI, R.
The effect of growth rate on interface morphology
18 p2936 N84-28624
TRIVIER, D.
Aerospatiale's experience on helicopter flight in icing conditions
[SNIAS-832-210-107] 16 p2448 N84-25707
TRKULA, M.
Approach to single-molecule detection by laser-induced fluorescence
[DE84-001338] 04 p0542 N84-13572
Prospects for single-molecule detection in liquids by laser-induced fluorescence
[DE84-001702] 09 p1324 N84-18647
TRNKA, J.
Exhibit of new technology 18 p2918 N84-28505
TROEGER, R. E.
Tip cap for a rotor blade
[NASA-CASE-LEW-13654-1] 13 p1931 N84-22560

TROEIM, J.
Preliminary results from the Heating Rocket (HERO) project: In situ measurements of ionospheric modifications using sounding rockets 05 p0636 N84-14183
TROEN, I.
A boundary layer parameterization for a general model [AD-A144224] 24 p3915 N84-34791
TROFIMENKO, I. T.
Investigation of statistical characteristics of random signals in nonlinear medium 21 p3485 N84-32086
TROFIMOV, I. F.
Introduction of productive welding and surfacing technological processes to production of nuclear powerplant equipment 12 p1787 N84-21655
TROFIMOVA, Y. A.
Anodic electrochemical processing of amorphous alloys 24 p3870 N84-34527
TROGLER, W. C.
Synthesis and chemistry of energetic metallotetraazadienes [AD-A136269] 09 p1278 N84-18344
TROILO, M.
Turbine aerodynamic design using through-flow theory. Meridional through-flow calculation 06 p0840 N84-15474
TROISI, V. J.
Pilot study and evaluation of a SMMR-derived sea ice data base [NASA-CR-175255] 22 p3614 N84-32896
TROITSKAYA, V. A.
Simultaneous observations of PC3 pulsations in the magnetosphere and on the ground: Control by the solar wind [IFSI-83-14] 18 p2953 N84-28717
TROITSKY, S. R.
Unipolar electric machines with liquid-metal current pickup [AD-A139778] 16 p2484 N84-25932
TROKHIN, V. M.
Measurement of thickness of SiO/sub 2 insulation layers in silicon structures with dielectric insulation 18 p2824 N84-27929
TROLINGER, J. D.
Development of holographic interferometry for welding arc analysis [DE84-005454] 13 p1994 N84-22940
TROMBKA, J. I.
A balloon-borne high-resolution spectrometer for observations of gamma-ray emission from solar flares [NASA-TM-86069] 09 p1416 N84-19266
TROMPETTE, P.
Dynamic behavior of composite layered beams by the finite element method 10 p1511 N84-19892
TRONRUD, L. B.
The Norwegian Seismic Array (NORSAR). Phase 3 [AD-A134038] 06 p0878 N84-15713
TROTIGNON, J. G.
Active sounder experiments on GEOS and ISEE 05 p0635 N84-14177
TROTTENBERG, U.
Software development based on multigrid techniques [GMD-84] 17 p2751 N84-27459
TROTTER, B. L.
Comparison of airborne turbulence-indicating doppler radar systems with ground-based doppler radar systems [AD-A141474] 19 p3005 N84-29043
TROUT, A. M.
Combustion gas properties of various fuels of interest to gas turbine engineers [NASA-TM-83682] 15 p2261 N84-24584
TROUVE
Experimental modal analysis [SNIAS-832-210-110] 16 p2440 N84-25655
TROWBRIDGE, C.
A turbomechanical thrust vector control for advanced intercontinental ballistic missiles 20 p3143 N84-29953
TROWBRIDGE, C. A.
Determination of stratospheric wind profiles by digital analysis [AD-A140502] 16 p2531 N84-26251
Turbulent diffusion, dissipation, and winds from calibrated photographs of artificial clouds [AD-A143231] 22 p3623 N84-32956
TROXEL, D. E.
Cognitive information processing 22 p3684 N84-33360
TROXLER, G.
Psychological and biochemical effects of a stress management program [AD-P003300] 18 p2909 N84-28447
TROY, B. E., JR.
A comparison of SMMR (Scanning Multichannel Microwave Radiometer) and airborne microwave measurements during GOASEX (Gulf of Alaska experiment) [AD-A134514] 07 p1008 N84-16534
TROY, J. J.
Model Statement Language/analyzer (MSL/MSA): A top-down Problem Statement Language/analyzer (PSL/PSA) approach for the user dialogue in decision support systems [AD-A132273] 04 p0580 N84-13829
TRUCKENBRODT, A.
Nutation damper for the AMPTE-IRM satellite: Final Report [NASA-TM-77330] 05 p0643 N84-14228
TRUDEAU, T. L.
US Army Medical Bioengineering Research and Development Laboratory, fiscal year 1983 [AD-A136926] 10 p1545 N84-20129
TRUHAN, J. J.
Corrosion of 5083 aluminum by aqueous sodium sulfate [DE84-012033] 20 p3156 N84-30045
Galvanic corrosion of an aluminum O-ring [DE84-011345] 20 p3157 N84-30047
TRUHER, J. B.
Making electron beams for SLC linac [DE84-012072] 20 p3293 N84-30907
TRUJILLO, A.
Evaluation of proposed human subject certification tests for self-contained breathing apparatus [PB84-172212] 17 p2748 N84-27447
TRUJILLO, A. A.
In-situ permeation tests of elastomeric O-ring seals [DE83-015622] 03 p0356 N84-12318
TRUJILLO, B.
F-111 TACT natural laminar flow glove flight results 18 p2783 N84-27662
TRUJILLO, B. M.
In-flight load testing of advanced shuttle thermal protection systems [NASA-TM-86024] 08 p1115 N84-17250
TRUJILLO, F.
New-generation low-power radiation survey instruments [DE84-001716] 05 p0685 N84-14506
TRUMBLE, T. M.
Radiation testing of GaAs on CRRES and LIPS experiment 19 p3044 N84-29314
TRUMMEL, M.
Hybrid vehicle assessment. Phase 1: Petroleum savings analysis [NASA-CR-173741] 18 p2947 N84-28682
TRUMP, C. G.
Getaway Special competition: Overview 18 p2799 N84-27764
TRUNK, G. V.
Survey of radar Automatic Detection and Tracking (ADT) [AD-A130358] 01 p0064 N84-10420
Range resolution of targets [AD-A131065] 01 p0067 N84-10437
Angular resolution of coherent and noncoherent sources [AD-A143287] 22 p3648 N84-33129
TRUONG, T. K.
VLSI architectures for computing multiplications and inverses in GF(2-m) 04 p0518 N84-13406
A parallel VLSI architecture for a digital filter using a number theoretic transform 09 p1400 N84-19141
A systolic VLSI design of a pipeline Reed-Solomon decoder 10 p1474 N84-19631
Error-trellis syndrome decoding techniques for convolutional codes 22 p3574 N84-32633
TRUPPI, L. E.
EPA (Environmental Protection Agency) complex terrain model development description of a computer data base from small hill impaction study no. 1, Cinder Cone Butte, Idaho [PB84-161439] 14 p2182 N84-24072
TRURAN, J. W.
Hydrodynamic simulations of a combined hydrogen, helium thermonuclear runaway on a 10 km neutron star [DE83-012658] 03 p0463 N84-13047
Theoretical calculation of rapid X-ray transients and radius expansion [DE84-001312] 06 p0941 N84-16114
TRUSCHEL, A. D.
Parametric model for peak flow prediction in ungaged ephemeral watersheds [PB83-249698] 04 p0555 N84-13658
TRUSCOTT, A. J.
The impingement of an underexpanded air jet on square section beams [BU-291] 15 p2256 N84-24548
TRUSHEVICH, G. B.
Optimization of parameters of electromechanical systems with mechanical balancing [BLL-M-35442] 09 p1324 N84-18651
TRUSINOVSKIY, L. M.
Adiabatic structure in mantle transition zone 18 p2863 N84-28177
TRUSOV, V. A.
Stability of mechanical properties of cold-drawn rolled metal with high-temperature thermomechanical treatment [BLL-M-35292-(5828.4)] 06 p0803 N84-15233
TRUSTY, G. L.
Aerosol measurements at an optical propagation site on the Outer Hebrides [AD-A143564] 22 p3625 N84-32972
TRUTT, F. C.
Electrical-shock prevention. Volume 1: Protection of maintenance personnel [PB84-102946] 08 p1206 N84-17865
Electrical-shock prevention. Volume 2: Ground-fault interrupting devices [PB84-102953] 08 p1206 N84-17866
Electrical-shock prevention. Volume 3: Fault protection for motion-drive equipment [PB84-102961] 08 p1206 N84-17867
Electrical-shock prevention. Volume 4: Overhead-line contact fatalities [PB84-102979] 08 p1207 N84-17868
TRYK, D.
Bifunctional oxygen electrodes [DE84-002774] 07 p0972 N84-16296
TRYON, P. V.
Introduction to STARPAC. The standards time series and regression package [PB84-178367] 17 p2755 N84-27492
TRZCINSKI, E.
Real-time in-situ targeting of geoplasma domains for purposes of chemical injection and artificial triggering of equatorial spread-F 05 p0639 N84-14208
The gaseous and plasma environment around space shuttle [AD-A133900] 05 p0643 N84-14231
TSAI, A. T.
Measurement of fast transient and steady state responses of viscoelastic fluids with a sliding cylinder rheometer executing coaxial displacements [AD-A137996] 12 p1816 N84-21835
TSAI, B. M.
Analysis of short pulse laser altimetry data obtained over horizontal path [NASA-CR-170612] 06 p0849 N84-15535
Remote sensing of atmospheric pressure and sea state from satellites using short-pulse multicolor laser altimeters 06 p0872 N84-15674
Theoretical and experimental analysis of laser altimeters for barometric measurements over the ocean [NASA-CR-175443] 11 p1662 N84-20842
TSAI, C. L.
Bias in nonlinear regression [AD-A139239] 14 p2218 N84-24308
Residuals in nonlinear regression [AD-A139309] 14 p2218 N84-24311
TSAI, C. S.
Thin-film guided-wave devices for integrated/fiber optic signal processing and communications [AD-A129582] 01 p0152 N84-11001
Hybrid integrated optic modules for real-time signal processing 12 p1905 N84-22412
TSAI, I. C.
Analysis of fatigue crack propagation of structural steel members subjected to variable amplitude fatigue stress 24 p3957 N84-35055
TSAI, J.
Software quality measurement for distributed systems, volume 1 [AD-A137955] 11 p1707 N84-21128
Software quality measurement for distributed systems. Volume 2: Guidebook for software quality measurement [AD-A137956] 11 p1707 N84-21129
Software quality measurement for distributed systems. Volume 3: Distributed computing systems. Impact on software quality [AD-A137957] 11 p1708 N84-21130
Software interoperability and reusability, volume 1 [AD-A138477] 12 p1883 N84-22276
Software interoperability and reusability. Volume 2: Guidebook for software quality measurement [AD-A138478] 12 p1884 N84-22277
TSAI, J. S.
High sensitivity comparison of potential differences between two Josephson junctions 05 p0752 N84-14930
TSAI, M. J.
A refined model for radar homing intercepts [AD-A136108] 09 p1254 N84-18187

TSAI, S.
Geology hydrology and mineral resources of crystaline rock areas of Northeastern US
[DE84-013671] 21 p3432 N84-31774
Geology, hydrology, and mineral resources of crystalline rock areas of the northeastern United States
[DE84-013672] 22 p3614 N84-32901
TSAI, S. T.
Energetic-particle stabilization of ballooning modes in Tokamaks
[DE83-016205] 04 p0609 N84-14020
Linear relativistic gyrokinetic equation in general magnetically confined plasmas
[DE84-000048] 04 p0610 N84-14027
TSAI, S. W.
A survey of macroscopic failure criteria for composite materials
[AD-A138091] 12 p1789 N84-21670
TSAI, W. K.
Implementation of an optimal multicommodity network flow algorithm based on gradient projection and a path flow formulation
[AD-A138935] 13 p2029 N84-23154
TSAKNAKIS, H.
Robust linear filtering for multivariable stationary time series
[AD-A131209] 02 p0281 N84-11844
Robust prediction and interpolation for Vector stationary processes
[AD-A130973] 02 p0284 N84-11859
TSANG, C. F.
Velocity plots and capture zones of pumping centers for ground-water investigations
[DE83-016618] 03 p0401 N84-12624
TSANG, C. S.
User manual of the CATSS system (version 1.0) communication analysis tool for space station
[NASA-CR-171728] 08 p1142 N84-17431
TSANG, K. T.
Electron-cyclotron maser and whistler instabilities in a relativistic electron plasma with loss-cone distribution
[DE84-001607] 04 p0541 N84-13561
Ballooning precessional instabilities in a single cell hot electron plasma
[DE84-007017] 14 p2230 N84-24373
TSANG, L.
Electromagnetic wave theory and remote sensing
22 p3683 N84-33350
TSANG, P.
The effects of task structures, dynamics of difficulty changes, and strategic resource allocation training on time-sharing performance
[AD-A134112] 05 p0715 N84-14685
The limits of multiple resource theory in display formatting: Effects of task integration
[AD-P003321] 18 p2910 N84-28457
TSANG, T.
Sound velocity anisotropy in cubic crystals
[NASA-CR-175344] 07 p1079 N84-17016
TSAO, C. H.
Heavy ions in space (M0001)
15 p2275 N84-24662
TSAO, M. C.
Characterization of fiber composite flywheels by ultrasonic imaging techniques
[DE84-004689] 10 p1452 N84-19487
TSAO, S. S.
Atomic transport in metallic glasses
[AD-A136363] 09 p1282 N84-18373
TSAPKO, V. K.
Calculation of the life of components of metallurgical equipment from the parameter of failure probability
[BLL-M-35351-(5828.4F)] 04 p0545 N84-13594
TSAREGORODTSEV, A. I.
Influence of choice of pair-interaction potential on results of modelling an edge dislocation in Alpha-iron
[BLL-M-35682-(5828.4)] 22 p3553 N84-32499
TSAUR, B. Y.
High-quality silicon films prepared by zone-melting recrystallization 18 p2939 N84-28638
TSAVARAS, A. A.
Solidification structures grown under induced flow and continuous casting of steel 24 p3883 N84-34599
TSAY, S. Y.
Properties of UV-cured polyurethane acrylates: Effect of polyol type and molecular weight
[AD-A143176] 22 p3559 N84-32537
Properties of UV-curable polyurethane acrylates: Effect of reactive diluent
[AD-A143241] 22 p3559 N84-32540
TSCHIRCH, R. P.
Heat sealable, flame and abrasion resistant coated fabric
[NASA-CASE-MSC-18382-2] 05 p0658 N84-14324
Heat resistant protective hand covering
[NASA-CASE-MSC-20261-1] 18 p2915 N84-28484
TSCHOEGL, N. W.
Effect of pressure on the mechanical properties of polymers, part 1
[DE84-006311] 13 p1965 N84-22765
Effect of pressure on the mechanical properties of polymers, part 3
[DE84-006653] 14 p2130 N84-23770
TSCHUDY, J. J., II
CHART and SKETCH: An interactive computer graphics program
[AD-A141997] 20 p3269 N84-30744
TSE, E.
Distributed hypothesis formation in distributed sensor networks
[AD-A133849] 05 p0731 N84-14802
Dynamic sequence assignment
[AD-A136548] 09 p1384 N84-19037
TSE, S. F.
Satellite orbit theory for a small computer
[AD-A139406] 14 p2112 N84-23660
TSE, S. K.
Comparison of the dichotomous and polychotomous quantal response models
[AD-A137938] 11 p1715 N84-21185
TSELIS, A. C.
Elementary excitations in semiconductor superlattices structures 08 p1234 N84-18065
TSELNIK, F. A.
Protective plasma envelope
[DE84-013316] 21 p3502 N84-32194
Probing a plasma with high-energy beams of atoms using threshold detectors
[DE84-013360] 21 p3502 N84-32195
TSEMOSHEVICH, P. M.
Quality and reliability of steel wire ropes
[BLL-M-35461-(5828.4)] 12 p1821 N84-21872
TSENG, K.
Nonlinear Green's function method for transonic potential flow 06 p0779 N84-15104
TSENG, Y. C.
Analysis of SEASAT SAR imagery collected during the JASIN experiment
[AD-A140584] 17 p2721 N84-27320
TSEPELEV, V. Y.
Improving energy performance and duty time of production process CW electrical ionization CO2 lasers by using five-component lasing mixtures
21 p3481 N84-32065
TSEYTLIN, V. Y.
Quasigeostrophic movements in barotropic and baroclinic fluid 18 p2865 N84-28191
TSI, T. B.
An automated technique for determining cloud velocity from GMS data. 1: The design and construction of a scanning converter 24 p3956 N84-35049
TSIBIN, I. P.
Investigation of the state of materials in plasma deposition of refractory coatings
[BLL-M-35686-(5828.4)] 22 p3551 N84-32485
TSIEN, H.
Development of a circulating zinc-bromine battery, phase 2
[DE84-001886] 04 p0527 N84-13463
TSIEN, R. Y.
Measurement and control of free calcium inside small intact cells 02 p0264 N84-11736
TSINGANOS, K.
Multiple transonic solutions and a new class of shock transitions in solar and stellar winds
03 p0468 N84-13083
Formation of standing shocks in stellar winds and related astrophysical flows 03 p0469 N84-13088
TSINTSADZE, N. L.
The influence of the relativistic character of the electron HF motion on the non-linear wave dynamics in plasmas
[IPPJ-676] 20 p3301 N84-30964
TSIPUNOV, A. G.
Experimental study of powder production process using centrifugal atomization 12 p1785 N84-21644
TSIRULSKIY, A. V.
Interpreting three-dimensional gravitational and magnetic anomalies 20 p3224 N84-30486
TSITSIKLIS, J.
Convergence theories of distributed iterative process: A survey
[AD-A135875] 09 p1382 N84-19027
Distributed optimization algorithms with communications
[AD-A137476] 10 p1480 N84-19672
On the complexity of distributed decision problems
[AD-A137443] 10 p1570 N84-20283
TSKHAKAYA, D. D.
The influence of the relativistic character of the electron HF motion on the non-linear wave dynamics in plasmas
[IPPJ-676] 20 p3301 N84-30964
TSOLAKIS, A.
Ice depolarization on low-angle 2 GHz satellite downlinks 15 p2323 N84-24946
TSONG, T. T.
Study of field adsorption using pulsed-laser atom-probe field-ion microscopy
[DE84-002280] 05 p0687 N84-14513
TSUBOI, F.
Experimental studies on plasma confinement in Nagoya bumpy torus
[IPPJ-655] 10 p1580 N84-20355
TSUCHIDA, M.
A 2:1 Commensurability in Uranus-Neptune system
19 p3120 N84-29833
TSUCHIDATE, H.
Experimental studies on plasma confinement in Nagoya bumpy torus
[IPPJ-655] 10 p1580 N84-20355
TSUCHIYA, K.
Superconducting properties of Nb3Sn multifilamentary wires fabricated by internal tin process
[DE83-018189] 06 p0925 N84-16011
TSUCHIYA, M.
Distributed database performance modeling
[AD-P002157] 14 p2139 N84-23823
TSUCHIYA, T.
PURDU-WINCOF: A computer code for establishing the performance of a fan-compressor unit with water ingestion
[NASA-CR-168005] 20 p3130 N84-29875
TSUDA, K.
Mechanisms of wear in single and two-phase materials
[DE83-014651] 01 p0091 N84-10592
TSUDA, S.
Scattering distribution characteristics of rare gases reflected from metal surface with absorbed gas molecules
[NAL-TR-761] 09 p1394 N84-19101
TSUDA, T.
A transceiver module of the Mu radar
17 p2692 N84-27147
TSUDA, Y.
Physiological function of combustion gas and especially that of CN 04 p0514 N84-13376
TSUGAWA, R. T.
Electrolytic gettering of tritius from air
[DE84-000174] 04 p0496 N84-13252
TSUGE, A.
Grain boundary engineering of mechanical strength of silicon nitride (Si3N4)
[NASA-TM-77433] 14 p2119 N84-23699
TSUI, T. Y.
Three dimensional stress analysis of an artillery projectile joint
[AD-P002955] 14 p2199 N84-24195
TSUNAWAKI, K.
Resin composition
[NASA-TM-77457] 10 p1451 N84-19477
TSUNODA, R. T.
The anisotropy of high latitude nighttime F-region irregularities
[AD-A131215] 01 p0106 N84-10688
Evidence of East-West structure in large-scale F-region plasma enhancements in the auroral zone
[AD-A131263] 01 p0106 N84-10689
High-latitude and equatorial research support for predicting high-altitude nuclear effects
[AD-A131431] 02 p0249 N84-11630
Phenomenology of structured plasma in the ionosphere
[AD-A136396] 09 p1345 N84-18784
TSURITA, Y.
Electron capture cross sections in high energy He2+ + neutral Li collisions
[IPPJ-679] 21 p3500 N84-32182
TSURUSAKI, K.
PAN AIR: A computer program for predicting subsonic or supersonic linear potential flows about arbitrary configurations using a higher order panel method. Volume 4: Maintenance document (version 1.1)
[NASA-CR-3254] 23 p3690 N84-33388
TSURUTANI, B. T.
Multiple spacecraft observations of interplanetary shocks: Characteristics of the upstream ULF turbulence
03 p0470 N84-13097
The magnetic-field investigation on ISPM
09 p1260 N84-18230
TSUSHIMA, A.
Formation of spatial Alfven resonance and global modes in an inhomogeneous plasma
[IPPJ-674] 20 p3302 N84-30966
TSUTAKAWA, R. K.
Estimation of two-parameter logistic item response curves
[AD-A137223] 10 p1569 N84-20280

TSVANKIN, I. D.
Spherical wave refraction with short distances of source from interface 17 p2702 N84-27212
TSVETKOV, A. A.
Subalkaline basaltic magmatism of active ocean-continent transition zones 18 p2857 N84-28144
TU, S.
Switched-capacitor sampled-data networks with communication applications 08 p1142 N84-17429
TUBBING, B. J. D.
An absolute calibration method for electron cyclotron emission spectrometers [REPT-83-149] 13 p1994 N84-22941
TUBBS, J. D.
Some properties of a 5-parameter bivariate probability distribution [NASA-TM-82550] 06 p0904 N84-15866
Statistical modeling of space shuttle environmental data [NASA-CR-170940] 10 p1573 N84-20304
A note on the ratio of positively correlated gamma variates 10 p1573 N84-20305
A method for determining if unequal shape parameters are necessary in a bivariate gamma distribution 10 p1573 N84-20306
A differential equations approach to the modal location for a family of bivariate gamma distributions 10 p1573 N84-20307
Analysis of wind gust data 10 p1573 N84-20308
TUCCILLO, J. J.
Memory efficient solution of the primitive equations for numerical weather prediction on the CYBER 205 10 p1559 N84-20213
TUCHIN, V. V.
Utilizing light focusing by gas discharge medium for stabilization of emission power of He-Ne laser at wavelength of 6401 angstroms 13 p1969 N84-22779
TUCHKEVICH, V.
Development of space holography 19 p2972 N84-28839
TUCK, E. O.
Influence of surface tension and surface shear on final coat thickness in jet-stripped continuous coating of sheet materials [AD-A136402] 09 p1314 N84-18586
Wave-less free-surface pressure distributions [AD-A141830] 19 p3024 N84-29176
TUCKER, A. W.
Laser chemical etching of vias in GaAs [AD-A131288] 02 p0226 N84-11479
TUCKER, C. L., III
Numerical simulation of strongly non-isothermal compression molding flows 15 p2306 N84-24834
TUCKER, G. E.
Preliminary guide to the onsite identification and delineation of the wetlands of Alaska [AD-A142091] 19 p3042 N84-29299
TUCKER, J. V.
Algebraic tools for system construction [MC-IW-234/83] 07 p1053 N84-16820
The axiomatic semantics of programs based on Hoare's logic [MC-IW-236/83] 07 p1056 N84-16841
Top-down design and the algebra of communicating processes [CWI-CS-R8401] 17 p2756 N84-27495
TUCKER, L. W.
Pulse echo ultrasonic techniques for underwater inspection of steel waterfront structures [AD-A133701] 05 p0689 N84-14527
TUCKER, R. G.
Cognitive organization as a function of flying experience [AD-A141767] 19 p3068 N84-29459
TUCKER, R. H.
First, second and third Herstmonceux catalogues of stars for 1950.0 [BULL-169] 06 p1243 N84-18125
TUCKER, T. J.
Simple ideal gas model of the Paviovskii high-explosive opening switch [DE83-016630] 02 p0215 N84-11411
TUCKER, T. K.
Magnetically enhanced hydrogen gas dissociator: A progress report 16 p2479 N84-25892
TUCKER, W. B., III
A comparison of sea ice model results using three different wind forcing fields [AD-A134462] 07 p1040 N84-16746
Current procedures for forecasting aviation icing: A review [AD-A136152] 09 p1350 N84-18818
TUCKER, W. H.
The star splitters: The high energy astronomy observatories [NASA-SP-466] 12 p1921 N84-22516
TUCKER, W. T.
Mobile radio alternative systems study. Volume 1: Traffic model [NASA-CR-168062] 01 p0061 N84-10402
TUDE, E. A. P.
L band low noise amplifier project [INPE-2794-PRE/356] 04 p0524 N84-13445
Subsystem duplexer for a 6-4 GHz Earth station [INPE-2795-PRE/357] 05 p0666 N84-14379
Low noise amplifier at L band [INPE-3128-PRE/519] 16 p2483 N84-25925
P-I-N Diode Switches Project [INPE-3171-PRE/541] 21 p3391 N84-31516
Analysis of microstrip line tolerance using the Monte-Carlo method [INPE-2814-PRE/370] 23 p3740 N84-33705
TUDOR, A. A.
The 100 area diesel performance data [DE84-011136] 21 p3414 N84-31648
TUEGEL, E. J.
The changes in the compressive and tensile yield strengths during uniaxial cyclic loading 21 p3418 N84-31674
TUELL, L. P.
An investigation into the probabilistic combination of quasi-static and random accelerations [NASA-TM-82584] 18 p2852 N84-28111
TUELLER, J.
Development of a segmented n-type germanium detector, and its application to astronomical gamma-ray spectroscopy [NASA-TM-85435] 03 p0461 N84-13039
TUESINK, M. F.
The geology of Thaumasia-northeast quadrant 15 p2427 N84-25579
TUFFIAS, R. H.
Platinum group coatings for refractory metals [AD-A143792] 23 p3718 N84-33568
High temperature oxidation resistant coatings [AD-A143633] 23 p3724 N84-33597
TUFTS, D. W.
Parallel implementation of likelihood-based estimation and detection 09 p1400 N84-19148
On the estimation of the 1st-order autoregressive parameter [AD-A144284] 24 p3950 N84-35014
TUGAZAKOV, R. Y.
Exact solution to problem of interaction between wedge moving at supersonic velocity and interface of two gaseous media 13 p1971 N84-22790
TUKALO, E. N.
The importance of impact pressure in the development of the process of formation of bonds between metals in the solid phase [BLL-M-35656-(5828.4)] 22 p3550 N84-32473
TUKEY, J.
The use of double sampling in studying robustness [AD-A142982] 21 p3475 N84-32022
TULEY, E. N.
Tip cap for a rotor blade [NASA-CASE-LEW-13654-1] 13 p1931 N84-22560
TULLY, J.
NASA, the first 25 years: 1958 - 1983 [NASA-EP-182] 16 p2583 N84-26563
TULUPOV, A. N.
Immediate effects of hyperbaric oxygenation on body oxygen supply 21 p3455 N84-31923
TUMANOVA, N. K.
A melt for the electrolytic application of titanium plating [BLL-OA-TRANS-3111-(6L96.3)] 06 p0804 N84-15241
TUMANYAN, G. A.
Deep crustal structure on space images 19 p2977 N84-28869
TUMANYAN, M. A.
Influence of variable magnetic field on bactericidal effect of ionizing radiation 07 p1043 N84-16765
TUMIN, A. M.
Excitation of Tollmin-Schlichting waves in boundary layer at vibrating surface of infinite-span sweptback wing 13 p1971 N84-22792
TUMMILLO, A. F.
Charge characteristics of Ni/Fe traction cells [DE83-014205] 03 p0367 N84-12389
Comparative response of lead-acid and nickel-iron batteries to pulsed and constant-current loads [DE83-017939] 03 p0368 N84-12395
Effects of standtime on the available capacity of lead-acid and nickel/iron electric vehicle batteries [DE84-013452] 22 p3587 N84-32721
TUNG, C.
Airfoil interaction with impinging vortex [NASA-TP-2273] 09 p1250 N84-18159
Navier-Stokes calculations for the vortex of a rotor in hover [NASA-TM-85894] 15 p2255 N84-24540
TUNG, F. C.
ACOSS Fourteen (Active Control of Space Structures) [AD-A133411] 06 p0795 N84-15181
TUNG, L. J.
Design of multivariable feedback control systems via spectral assignment using reduced-order models and reduced-order observers [NASA-CR-173448] 18 p2923 N84-28537
TUNKIN, V. G.
Picosecond parametric optical oscillator with amplification of radiation from tunable semiconductor laser 21 p3487 N84-32097
TUNNICLIFFE-WILSON, G.
On the use of marginal likelihood in time series model estimation [AD-A132828] 05 p0740 N84-14862
TUOMINEN, I.
Circular polarimetry of the magnetic compact binary AM Herculis 09 p1414 N84-19251
TUPCHIYENKO, A. M.
Influence of electric fields on potential waves in Earth's magnetosphere 17 p2705 N84-27225
TUPIKOVA, I. V.
Formulation of theory of artificial earth satellite motion by Hori-Deprit method 19 p2974 N84-28852
TUPPER, K. W.
The effect of trailing vortices on the production of lift on an airfoil undergoing a constant rate of change of angle of attack [AD-A136921] 10 p1421 N84-19295
TUPPER, R. B.
Modular stellarator reactor: A Fusion power plant [DE84-002268] 07 p1077 N84-17001
TURAKHIA, M. H.
Microbial fouling and its effect on power generation [AD-A131084] 01 p0112 N84-10726
TURBAT, A.
Extension of finite element programs to thermoelastoviscoplastic domains [CETIM-11-A-102] 21 p3424 N84-31716
Simplified approach to two-dimensional cyclic plasticity problems [CETIM-11-B-110] 21 p3424 N84-31718
TURBYFILL, C.
Experiment in benchmarking database systems [DE84-003840] 11 p1750 N84-21423
TURCHANIN, A. G.
Investigation of the thermophysical properties of high-melting materials with the aid of a complex of instruments [NASA-TM-77402] 10 p1453 N84-19491
TURCOTTE, D. L.
A renormalization group model for the stick-slip behavior of faults [NASA-CR-173362] 09 p1344 N84-18782
Was the early Earth completely molten? 11 p1755 N84-21460
TURCOTTE, M. D. S.
Environmental behavior of Technetium-99 [DP-1644] 06 p0805 N84-15245
TURK, A.
NBS (National Bureau of Standards) Workshop: Environmental Control for Archival Records Storage [PB83-242230] 03 p0460 N84-13026
TURK, J. W. M.
Fast arithmetic operations on numbers and polynomials 08 p1224 N84-17992
TURKEL, E.
Spectral methods for time dependent partial differential equations [NASA-CR-172241] 01 p0128 N84-10837
The efficient use of spectral and finite difference methods for the solution of certain hyperbolic and parabolic problems [AD-A139477] 14 p2214 N84-24299
Conjugate gradient coupled with multigrid for an indefinite problem [NASA-CR-172379] 19 p3082 N84-29558
Acceleration to a steady state for the Euler equations [NASA-CR-172398] 20 p3126 N84-29852
Flux-vector splitting and Runge-Kutta methods for the Euler equations [NASA-CR-172415] 21 p3470 N84-31993
Fast solutions to the steady state compressible and incompressible fluid dynamic equations [NASA-CR-172416] 22 p3530 N84-32349
On accuracy conditions for the numerical computation of waves [NASA-CR-172433] 22 p3645 N84-33111

TURKO, B. T.
Acoustic imaging of vapor bubbles through optically non-transparent media
[DE84-003961] 08 p1228 N84-18022
Multichannel interval timer
[DE84-004635] 10 p1499 N84-19795
TURKOT, F.
Measurement of the energy resolution and related properties of an SCG1-C scintillation glass shower counter array for 1 to 25 GeV positrons
[DE84-007246] 14 p2148 N84-23871
Measurement of electromagnetic shower position and size with a saturated avalanche tube hodoscope and a fine grained scintillation hodoscope
[DE84-007247] 15 p2337 N84-25032
TURLAND, B. D.
Thermohydraulics of LMFBR core catchers
06 p0843 N84-15500
TURLINGTON, T. R.
Solid state transmitters for spaceborne radars
07 p0988 N84-16398
TURLOT, J. C.
Some remarks on second order stationary process (or weak stationarity) 09 p1412 N84-19239
Statistical classification of IUE stellar spectra by the Variable Procrustean Bed (VPB) approach
24 p3975 N84-35178
TURMAN, B. N.
Comparison of lightning flash rates from the PBE sensor and streak counting from the DMSP satellite
[DE84-006722] 20 p3246 N84-30602
TURNBULL, A.
A theoretical analysis of the influence of crack dimensions and geometry on mass transport in corrosion fatigue cracks
[NPL-DMA(A)-69] 12 p1825 N84-21897
TURNBULL, B. W.
Nonparametric estimation of the distribution of time to onset for specific diseases in survival/sacrifice experiments
[DE83-013726] 01 p0112 N84-10728
TURNBULL, D.
The undercooling of liquids 24 p3881 N84-34590
TURNER, A.
Theoretical chemical calculations on molecules of air force interest
[AD-A137203] 10 p1576 N84-20326
TURNER, A. C.
Broaching today 09 p1293 N84-18450
TURNER, B. J.
Development of a data management front-end for use with a LANDSAT-based information system
[NASA-CR-175151] 11 p1749 N84-21418
TURNER, C. M.
Diode laser spectrophotometry for monitoring acetylene on-line in a liquefaction plant
[DE84-002117] 06 p0851 N84-15548
TURNER, C. R.
MIL-STD-1750A users group
[AD-P003547] 21 p3333 N84-31151
TURNER, D.
T-HEMP3D user manual
[DE84-000526] 04 p0582 N84-13845
TURNER, D. B.
Relation of urban model performance to stability
[PB84-130418] 11 p1676 N84-20940
TURNER, D. J.
The Army Ada (trademark) education program
[AD-P003414] 20 p3269 N84-30746
TURNER, E. B.
The NEST chemistry computer program: Operations handbook
[AD-A130215] 01 p0121 N84-10788
TURNER, F.
Manufacturing influence of design and its importance to successful automation
[PNR-90189] 13 p1975 N84-22814
TURNER, J. E.
Catalyzed photodissociation of water
[DE84-012253] 21 p3361 N84-31325
TURNER, J. M.
Fast algorithms for improved speech coding and recognition
[AD-A137569] 11 p1643 N84-20740
An overview of recursive least squares estimation and lattice filters
[AD-A137554] 11 p1713 N84-21166
TURNER, J. R.
Practical experience of engineering software production to a structured programming standard
05 p0723 N84-14744
ESATAN: A thermal network analysis computer program 10 p1443 N84-19426
TURNER, J. S.
Higher order numerical simulations of the Knudsen layer
[AD-A131538] 02 p0190 N84-11234
TURNER, K. A.
Documentation of wave-height and tidal analysis programs for automated data acquisition and control systems
[AD-A142679] 20 p3251 N84-30634
TURNER, L.
Magnetic field topologies of the relaxed states of turbulent discharges
[DE84-004330] 11 p1737 N84-21334
TURNER, L. R.
Coupling between angular deflection and eddy currents in the FELIX plate experiment
[DE84-001509] 05 p0750 N84-14927
TURNER, R.
Particle sizing in a fuel-rich ramjet combustor
[AD-A135632] 09 p1257 N84-18204
Particle sizing in a fuel rich airbreathing engine combustor 13 p1943 N84-22634
TURNER, R. E.
A stochastic atmospheric model for remote sensing applications
[NASA-CR-172181] 01 p0100 N84-10648
MSFC exhaust effluent diffusion predictions and measurements for STS-1, STS-2, STS-3, and STS-4
[NASA-TM-82551] 02 p0243 N84-11593
Atmospheric environment for space shuttle (STS-8) launch
[NASA-TM-82560] 05 p0708 N84-14636
TURNER, R. H.
Application of the principal component method to trajectory estimation
[AD-P002951] 14 p2199 N84-24191
TURNER, S. E.
A study of research needs and priorities in radioactive waste management
[DE84-009045] 20 p3298 N84-30946
TURNER, T.
Impact of electrostatics on IC (Integrated Circuit) fabrication
[AD-A137372] 10 p1486 N84-19713
TURNER, W. C.
Vacuum measurements on the tandem mirror experiment upgrade (TMX-U) fusion experiment
[DE83-017836] 03 p0448 N84-12946
Steady state compact toroidal plasma production
[DE84-011090] 20 p3303 N84-30977
TURNEY, G. E.
Analysis of a topping-cycle, aircraft, gas-turbine-engine system which uses cryogenic fuel
[NASA-TP-2294] 12 p1771 N84-21549
TURNIPSEED, G. T.
Vestibulo-ocular reflex gain in man during active versus passive oscillation and the influence of voluntary gaze-control tasks
[AD-A132006] 03 p0415 N84-12717
The effects of character stroke width on the visibility of a head-coupled display
[AD-A132046] 04 p0484 N84-13183
TURNOCK, T.
Omega Data Bank
[AD-A131089] 01 p0008 N84-10046
TURNS, S. R.
Combustion of agglomerates formed by carbon slurry fuels
[AD-A136390] 09 p1278 N84-18345
TURNSHEK, D.
The role of the Automated Plate Measuring (APM) machine in developing a program to discover QSOs automatically 18 p2843 N84-28054
TUROVA, T. P.
Allomonades: New group of vibrionaceae family microorganisms 17 p2742 N84-27410
TUROVSKAYA, T. S.
Effect of ion treatment of substrates on initial stage of buildup of metal films 21 p3378 N84-31439
TUROVTSEV, G. V.
Special features of the formation of a bed of polydispersed free-flowing materials
[BLL-M-35674-(5828.4)] 22 p3592 N84-32747
TUROZAK, J.
Transactions of the Industrial Institute of Electronics (selected articles)
[AD-A137204] 10 p1485 N84-19711
TURPIN, R.
Extending binary Byzantine agreement to multivalued Byzantine agreement
[AD-A143424] 22 p3640 N84-33077
TURRO, N. J.
Structural and dynamic studies of materials possessing high energy content
[AD-A136250] 09 p1278 N84-18343
TURSKI, A. J.
Effect of the density of ionized particles on the plasma response in the plasmosphere
[ISSN-0208-5658] 19 p3106 N84-29733
TUSCHY, E.
Extrusion. State of the art and development, review paper
[RAE-TRANS-2102] 04 p0515 N84-13381
TUSKIYA, I. I.
A crossed scintillation supertelescope to measure the muon component of cosmic ray intensity
24 p3994 N84-35274
TUSZEWSKI, M.
Recent results in the Los Alamos compact torus program
[DE83-014147] 03 p0446 N84-12930
Parameters of a possible FRC adiabatic compression experiment
[DE84-007487] 14 p2230 N84-24371
Translation of field-reverse configurations in the FRX C/T experiment
[DE84-007489] 14 p2230 N84-24376
Internal magnetic field measurements in a translating field-reversed configuration
[DE84-010054] 20 p3284 N84-30854
TUTEUR, F. B.
Analysis of the Howells-Applebaum algorithm in the presence of moving interference. The use of lattice filters in daptive array processors. Stability analysis of LMS adaptive filters. Adaptive array processors with moving interference
[AD-A130216] 01 p0063 N84-10413
TUTT, G.
Target track and stabilization for manportable direct fire missiles
[AD-A136219] 09 p1271 N84-18306
TUTTLE, D. M.
Instructional systems development model for interactive videodisc
[AD-A136737] 10 p1498 N84-19790
Interactive videodisc design and production, workshop guide
[AD-A136830] 10 p1498 N84-19791
TUTTLE, M. H.
Support interference of wind tunnel models: A selective annotated bibliography
[NASA-TM-81909-SUPPL] 17 p2610 N84-26708
TUVCOTTE, R.
Low cost, sprayed CuInSe2 solar cell research
[DE84-005339] 10 p1530 N84-20023
TUXWORTH, R. W.
A high temperature optical displacement measuring system
[PNR-90186] 13 p2044 N84-23261
TUYEZOV, I. K.
Deep geophysical investigations in zones of present-day active volcanism 17 p2701 N84-27204
TVERSKAYA, L. V.
Cutoff for solar cosmic rays in Earth's magnetosphere in magnetically quiet periods 19 p2973 N84-28849
TVERSKY, A.
Representations of perceptions of risks
[AD-A131443] 01 p0117 N84-10759
Weighing evidence: The design and comparison of probability
[AD-A131475] 01 p0137 N84-10896
External versus intuitive reasoning: The conjunction fallacy in probability judgment
[AD-A131801] 04 p0574 N84-13778
Risk: The long and the short
[AD-A140580] 17 p2746 N84-27436
TWARD, E.
Cascade Joule-Thomson refrigerators
06 p0821 N84-15354
TWEEDT, D. L.
Stator blade row geometry modification influence on two-stage, axial-flow compressor aerodynamic performance
[AD-A141793] 19 p2966 N84-28797
TWILLEY, W. H.
Development of a calorimeter forimultaneously measuring heat release and mass loss rates
[PB83-222711] 01 p0085 N84-10555
TWOGOOD, R. E.
Overview of digital-image processing
[DE84-000156] 04 p0583 N84-13848
TWOHIG, L. G.
The Shock and Vibration Digest, volume 15, no. 10
[AD-A136898] 10 p1506 N84-19855
The Shock and Vibration Digest, volume 15, no. 11
[AD-A137065] 10 p1507 N84-19858
The Shock and Vibration Digest, volume 16, no. 3
[AD-A139707] 13 p2000 N84-22976
TYERYAR, J. R.
Rapid adhesive bonding concepts
[NASA-TM-86256] 20 p3145 N84-29968

TYGIELSKI, P. J.
Bellows flow-induced vibrations
[NASA-TM-82556] 13 p1989 N84-22912
TYLEE, J. L.
Instrument failure detection in nonlinear systems
[DE84-005306] 11 p1661 N84-20838
TYLER, G. L.
The case for aeolian control of meter-scale surface texture on Mars 13 p2088 N84-23528
TYLER, J. C.
Effects of micronic filtration on turbine engine lubricant deposition
[AD-A141602] 19 p2999 N84-29007
Effects of wear metal on lubricant deposition
[AD-A142027] 19 p2999 N84-29008
TYLER, N.
Continuity and internal properties of Gulf Coast sandstones and their implications for geopressured fluid production
[DE84-004396] 10 p1526 N84-19996
TYON, P. V.
Nonlinear least squares regression using STAR-PAC: The standards time series and regression package
[PB84-166214] 15 p2394 N84-25365
TYSOE, W. T.
Catalysed low-temperature production of methane from water and graphite
[DE83-012474] 02 p0203 N84-11325
Adsorption and catalyzed reactions of CO and CO2 on graphite surfaces
[DE84-006625] 14 p2123 N84-23725
TYSON, M. P.
Optimizing coagulation-adsorption for haloform and TOC (Total Organic Carbon) reduction
[PB83-210757] 01 p0058 N84-10378
TYSON, W. M.
Adaptive modeling and real-time simulation
[AD-A141648] 19 p3095 N84-29656
TYSZER, J.
An algebraic method for hazard analysis with the maximum number of spikes in combinational and sequential circuits
[AD-P002369] 14 p2194 N84-24160
TYUTEKIN, V. V.
Measurement of flux density of sound energy 17 p2638 N84-26874
TYUTYUNNIK, V. G.
Photoelectric master means of measurement of energy and maximum power of pulsed lasers 17 p2637 N84-26872
TZONG, T. J.
Hybrid modeling of soil-structure interaction in layered media
[PB84-192178] 20 p3171 N84-30137
TZOU, J. L.
Fatigue-crack propagation in viscous environments
[DE83-011741] 02 p0232 N84-11520
Influence of the viscous environments on fatigue crack propagation in a lower strength steel
[DE84-006247] 14 p2128 N84-23761
TZOU, Y. H.
The geologic and geophysical study of the Hengchung Peninsula, southern Taiwan, 1 24 p3957 N84-35052

U

UBER, J.
Engineering and design properties of thallium-doped sodium iodide and selected properties of sodium-doped cesium iodide
[NASA-RP-1131] 23 p3726 N84-33613
UBERALL, H.
Acoustic exploration of ocean floor properties based on the ringing of sediment layer resonances
[AD-A138245] 12 p1899 N84-22367
Elastic wave scattering from cylindrical cavities and solid inclusions analyzed by the resonance method
[AD-P002971] 14 p2201 N84-24207
UBERTINI, L.
Continuum mechanics approach to streamflow modeling
[PB83-265041] 05 p0698 N84-14581
UCHIDA, T.
A small and light weight heat exchanger for on-board helium refrigerator 06 p0819 N84-15339
UCKAN, N. A.
Proceedings of the Advanced Bumpy Torus Concepts Workshop
[DE84-002406] 09 p1392 N84-19091
UCKERMANN, R.
Evaluation and analysis of experience reports concerning wind shear problems
[DFVLR-FB-83-19] 07 p0949 N84-16159
UCZKIEWICZ, J.
Outline of methods for design of superconducting turbogenerators
[AD-A132528] 04 p0525 N84-13451
UDALOV, S.
Engineering evaluations and studies. Volume 1: Exhibit A
[NASA-CR-171724] 06 p0794 N84-15174
Engineering evaluations and studies. Volume 2: Exhibit B, part 1
[NASA-CR-171725] 06 p0794 N84-15175
Engineering evaluations and studies. Volume 2: Exhibit B, part 2
[NASA-CR-171726] 06 p0794 N84-15176
Engineering evaluations and studies. Volume 3: Exhibit C
[NASA-CR-171727] 06 p0794 N84-15177
UDINTSEV, N. A.
Reactions of cerebral cortex neurons to alternating magnetic field on glutamic acid 20 p3258 N84-30681
UDSETH, H. R.
Supercritical fluid methods in analytical chemistry
[DE84-008289] 15 p2288 N84-24728
UEBELHART, D.
Morphometric and biophysical study of bone tissue in immobilization-induced osteoporosis in the growing rat 23 p3809 N84-34152
UEDA, T.
Doublet point method for calculations on oscillatory lifting surfaces. Part 1: Subsonic flow
[NAL-TR-781-PT-1] 09 p1251 N84-18168
Doublet point method for calculations on oscillatory lifting surfaces. Part 2: Supersonic flow
[NAL-TR-785-PT-2] 16 p2439 N84-25649
UEMIIT
Pulse and interval distributor with sensor control 17 p2637 N84-26867
UEMURA, Y. J.
Dynamics of itinerant ferromagnets above T sub c
[DE84-002695] 15 p2402 N84-25420
Magnetic excitations in transition-metal ferromagnets. Recent progress and future prospects on neutron scattering experiments
[DE84-008808] 18 p2928 N84-28566
UENK, D.
Hot spot reflectance measurements applied to green biomass estimation and crop growth monitoring
[NLR-MP-83037-U] 17 p2721 N84-27323
UENO, F.
Realization and analysis of a mask-programmable I2L multivalued logic circuit
[AD-P002352] 14 p2192 N84-24143
UENO, I.
Ablation accelerator (ABLAC) as driver for impact fusion
[IPPJ-668] 15 p2410 N84-25463
UENO, K.
Hot-pressed silicon nitride with various lanthanide oxides as sintering additives
[NASA-TM-77424] 19 p2985 N84-28916
UENO, T.
A method of economical gear finishing of surface hardened gears 07 p0983 N84-16370
UFFELMAN, D. R.
Determination of propagation limitations at HF by real-time update of a computer model from oblique sounder data 06 p0869 N84-15660
On the utilization of ionospheric diagnostics in the single-site location of HF emitters 06 p0870 N84-15661
Real-time update of 2 H. F. (High Frequency) channel evaluation models by oblique sounding
[AD-A137556] 11 p1643 N84-20739
H. F. Frequency management by frequency sharing as assisted by models updated in real-time
[AD-A139896] 15 p2321 N84-24936
UGAZIO, S.
Resonant parametric transducer
[IFSI-83-10] 18 p2835 N84-27995
UGLAND, R. C.
Water resources data for Colorado, water year 1982. Volume 3: Dolores River Basin, Green River Basin, and San Juan River Basin
[PB84-120146] 09 p1339 N84-18743
Water resources data for Colorado, water year 1982. Volume 2: Colorado River Basin above Dolores River
[PB84-120138] 10 p1527 N84-20004
UGLANOVA, N. A.
Simulation of cerebrocranial trauma for evaluation and development of gear to protect pilots against impacts 02 p0259 N84-11695
UGLOV, A. A.
Effect of concentrated energy streams on materials: Problems and prospects 12 p1784 N84-21638
Specifics of structure formation in nitrides synthesized by laser action on metals 12 p1784 N84-21640
Estimating target temperature in laser experiments in nitrogen at high pressures 24 p3874 N84-34548
UGLOV, Y. F.
Introduction of productive welding and surfacing technological processes to production of nuclear powerplant equipment 12 p1787 N84-21655
UGODCHIKOV, A. G.
Study of large viscoplastic strains in cylindrical shells by method of magnetic-pulse loading 13 p1972 N84-22798
UGRYUMOV, Y. A.
Supersonic jet-cavity interaction pulsation 21 p3485 N84-32089
UGRYUMOV, Y. P.
Microprocessor devices for analog signal processing 18 p2824 N84-27928
UGRYUNOV, Y. P.
Autonomous microprocessor controllers for scientific research automation systems 24 p3941 N84-34946
Microprocessors for analog signal processing 24 p3941 N84-34947
UHERKA, K. L.
Magnetohydrodynamic power generation, electromagnetic pumps, heat pipes, and thermionic convertors
[DE84-009195] 15 p2411 N84-25475
UHM, H. S.
High space harmonic perturbations in traveling wave tubes
[AD-A130204] 01 p0070 N84-10458
UHR, L.
Multi-computer parallel arrays, pipeline arrays and pyramids 09 p1400 N84-19147
UHRICH, R.
HP-85/Mini-Ranger navigation system
[AD-A142131] 19 p2961 N84-28770
UHRIN, R.
Manufacturing methods and technology engineering for 'Growth of large diameter Nd:YAG laser crystals'
[AD-A139902] 15 p2413 N84-25486
Preparation of mixed perovskite oxides for blue-green lasers
[AD-A142195] 19 p3111 N84-29768
UIMIN, M. A.
Mechanical properties of Mn-Al-C system alloys
[BLL-M-35432] 09 p1280 N84-18362
UKLEJEWSKI, R.
Use of methods of transmission line electrical theories to analyze one-dimensional dynamic problems of consolidation theory
[ISSN-0208-5658] 23 p3734 N84-33662
ULABY, F. T.
Radar remote sensing for crop classification and canopy condition assessment: Ground-data documentation
[E84-10020] 01 p0099 N84-10643
Microwave remote sensing of snow experiment description and preliminary results
[E84-10009] 02 p0236 N84-11547
A simulation study of scene confusion factors in sensing soil moisture from orbital radar
[E84-10042] 04 p0552 N84-13635
Mapping and monitoring renewable resources with space SAR 07 p0988 N84-16403
Focusing the parabolic antenna
[NASA-CR-173304] 08 p1173 N84-17642
Microwave dielectric constant dependence on soil tension
[AD-A134651] 08 p1178 N84-17673
Measuring and modeling of the dielectric properties and attenuation of vegetation 12 p1832 N84-21940
Measuring and modeling of the dielectric properties and attenuation of vegetation 12 p1834 N84-21953
Determination of the sources of radar scattering 12 p1834 N84-21954
Modeling the polarization dependence of the attenuation in vegetation canopies 23 p3767 N84-33876
The effect of row direction on the microwave emission from vegetation canopies 23 p3767 N84-33877
Dielectric measurements of soils in the 3 to 37 GHz band between -50C and 23C 23 p3768 N84-33883
The dielectric behavior of snow in the 3 to 37 GHz range 23 p3768 N84-33884
ULASHCHIK, V. S.
Change in spectrum of blood hormones under influence of centimeter range microwaves 17 p2742 N84-27412
ULASYUK, V. N.
Laser screens of ZnSe produced by bridgeman method 12 p1787 N84-21658
ULBRICH, R.
A SAR system test unit for verification of user requirements
[BMFT-FB-W-84-002] 19 p3009 N84-29074

ULBRICHT-EISSING, M.
Reports from the German Meteorological Service. Number 165: The wind conditions in the Federal Republic of Germany with a view to windpower utilization (especially network planning). Part 3: Interior. Part 4: Hinterland
[ISBN-3-88148-211-3] 19 p3057 N84-29393
ULBRICHT, R.
Microwave remote sensing experiment for first Spacelab mission
[BMFT-FB-W-83-022] 10 p1527 N84-20001
ULITCHNY, M. G.
Over-aging of aluminum alloys
[DE84-004927] 08 p1135 N84-17382
Titanium fabrication
[DE84-004374] 10 p1462 N84-19551
Process for producing parts with deep pocketed precision cavities using P/M shape technology
[DE84-006566] 12 p1799 N84-21733
ULKE, H.
New technologies in the forefront of industrial developments 07 p0944 N84-16123
ULLMAN, F. G.
Improper ferroelectricity: A theoretical and experimental investigation
[AD-A138401] 12 p1898 N84-22362
ULLMAN, J. D.
Research in VLSI systems. Heuristic programming project and VLSI theory project. A fast turn around facility for very large scale integration (VLSI)
[AD-A134809] 08 p1151 N84-17494
Experience with a regular expression compiler
[AD-A135202] 08 p1209 N84-17888
Universal relation database systems
[AD-A135707] 09 p1404 N84-19176
On the equivalence of logical databases
[AD-A141541] 19 p3085 N84-29579
Implementation of logical query languages for databases
[AD-A144435] 24 p3947 N84-34992
ULLMAN, S.
Computational studies in the interpretation of structure and motion: Summary and extension
[AD-A131598] 02 p0265 N84-11746
Visual routines
[AD-A133634] 06 p0891 N84-15792
ULLMAN, T. L.
Heavy-duty diesel emissions as a function of alternate fuels
[PB84-120716] 09 p1291 N84-18426
ULLMANN, J. L.
Transmission of fast neutrons from the Li(d,xn) reaction through thick iron
[DE83-015975] 03 p0439 N84-12884
ULLRICH, R.
Error response of a trapezoidal pulses DME technique disturbed by multipath effects and noise
[ESA-TT-747] 16 p2482 N84-25915
ULMISHEK, G.
The geology and petroleum resources of basins in the Asian Arctic and offshore east Greenland
[DE84-012114] 21 p3431 N84-31772
ULRICH, C.
The air traffic planning coordinator of the Federal Republic of Germany
[FACHTHEMEN-5] 07 p0945 N84-16130
ULRICH, D. J.
Plasma conductivity experiments on pulsed high-voltage discharges by two coil RF-probe
[AD-A144595] 24 p3965 N84-35110
ULRICH, R. K.
The analysis of solar models: Neutrinos and oscillations
[NASA-CR-173628] 17 p2780 N84-27652
ULRICH, T. E.
Proceedings of the 9th Symposium on Psychology in the Department of Defense
[AD-A141043] 18 p2902 N84-28403
ULRICKSON, M.
Tensile and low-cycle fatigue measurements on cross-rolled tungsten at 1505 K
[DE84-000805] 04 p0499 N84-13273
ULVAN, E.
Metal formability in bulk deformation processes 09 p1293 N84-18446
ULYATE, C. E.
Aluminium extrusion: A metal forming process 09 p1293 N84-18444
UMAN, M. A.
Lightning data analysis
[AD-A138136] 12 p1860 N84-22118
UMAR, A.
The allocation of data and programs in distributed data processing environments 22 p3670 N84-33261
UMARJI, A. M.
Crystal fields and second order magnetic hyperfine interactions in TmFe2Si2
[DE84-003622] 08 p1236 N84-18078
UMBARGER, C. J.
New-generation low-power radiation survey instruments
[DE84-001716] 05 p0685 N84-14506
UMEBAYASHI, S.
Gas pressure sintering of Beta-Sialon with Z=3
[NASA-TM-77421] 14 p2129 N84-23765
UMEDA, T.
Impact of vegetative hydrocarbon emissions on ambient ozone levels and control program development
[DE84-008515] 18 p2878 N84-28273
UMEZAWA, H.
Anomalous surface impedance in reentrant ferromagnetic superconductors
[DE84-012834] 22 p3664 N84-33230
UMLAUFT, G.
The ISPM energetic panel particle composition experiment 09 p1261 N84-18233
UMSTEAD, M. E.
Shock-initiated decomposition of nitramines with laser diagnositcs 21 p3372 N84-31401
UNDERWOOD, D. C.
Operational studies and expected performance of superconducting quadrupole magnets in the first stages of secondary beams
[DE83-016734] 03 p0456 N84-12999
UNDERWOOD, D. I.
General aviation TCAS (Traffic Alert and Collision Avoidance System) avionics (GATCAS)
[AD-A139145] 14 p2104 N84-23618
UNDERWOOD, D. L.
Preliminary airworthiness evaluation of the Rutan Aircraft Factory (RAF), Incorporated LONG-EZ airplane
[AD-A140765] 17 p2606 N84-26695
UNDERWOOD, J. H.
Fatigue life analysis and tensile overload effects with high strength steel notched specimens
[AD-A136065] 09 p1284 N84-18384
UNDERWOOD, J. M.
The development of aerodynamic uncertainties for the space shuttle orbiter 01 p0026 N84-10164
Software development guidelines
[NASA-CR-171748] 09 p1366 N84-18919
UNDERWOOD, K. H.
Surface heat flux derived from sodar amplitude and frequency data: A comparison
[DE83-017930] 04 p0564 N84-13717
A comparison of frequency determination using real sodar data
[DE83-017942] 04 p0564 N84-13718
UNGAR, E. E.
Vibration challenges in microelectronics manufacturing 10 p1508 N84-19870
Preliminary evaluation of waveguide vibration absorbers
[AD-A140743] 17 p2680 N84-27070
UNGAR, S. G.
Integration of LANDSAT land cover data into the Saginaw River basin geographic information system for hydrologic modeling
[AD-A140185] 16 p2510 N84-26106
UNGERS, L. J.
Walk-through survey report: Control technology for integrated circuit fabrication, Xerox Corporation, El Segundo, California
[PB83-239053] 03 p0359 N84-12333
UNKEL, W.
Hypervelocity supersonic nozzle beam source of atomic oxygen 24 p3863 N84-34480
UNKEL, W. C.
Improvement of reliability of welding by in-process sensing and control (development of smart welding machines for girth welding of pipes)
[DE83-017012] 01 p0091 N84-10595
UNNAM, J.
Response of Inconel 617 superalloy to combined ground-based and STS reentry exposure
[NASA-TM-86293] 22 p3554 N84-32505
Residual mechanical properties of Ti-6Al-4V after simulated Space Shuttle reentry
[NASA-TM-86294] 22 p3554 N84-32506
Effect of alloy chemistry and exposure conditions on the oxidation of titanium
[NASA-TM-86295] 22 p3555 N84-32507
UNNEVER, G.
Effect of boattail geometry on the acoustics of parallel baffles in ducts
[NASA-TM-85981] 19 p3099 N84-29686
UNO, K.
Frequency characteristics of spring constants of a suspended transmission line 07 p0982 N84-16361
UNRUH, D. M.
The Lf-Hf evolution of KREEP 11 p1756 N84-21461
UO, K.
Spectroscopy in heliotron E 11 p1735 N84-21320
UPCHURCH, R. B.
Improvements to software maintenance methods in real time embedded aviation flight systems
[AD-A141949] 20 p3269 N84-30742
UPDIKE, D. P.
Longitudinally stiffened composite multi-layer cylindrical shells (and rings) under internal pressure 15 p2309 N84-24855
UPGREN, A. R.
On the frequency of wide pairs among nearby dwarf stars 09 p1412 N84-19236
UPITIS, Z. T.
The mechanoluminescence of fibreglass tubes in the plane stressed state
[DRIC-T-7014] 09 p1328 N84-18673
UPOCHKIN, Y. I.
Experimental study of immiscibility in metallurgical systems
[BLL-M-35553-(5828.4)] 17 p2621 N84-26775
UPPULURI, V. R. R.
Survey of error propagation in systems
[DE83-009817] 01 p0134 N84-10878
URAMOTO, J.
Extraction of volume produced H(-) or D(-) ions from a sheet plasma I
[IPPJ-645] 06 p0919 N84-15974
Extraction of volume produced H(-) or D(-) ions from a sheet plasma 2
[IPPJ-666] 15 p2409 N84-25480
URBACH, A. R.
One year of stars, provided by the IRAS cryogenic system 10 p1442 N84-19416
URBAHN, H.
Kinematics of the structure and morphology during surface reactions between transition metals and molecular hydrogen 06 p0816 N84-15317
URBAN, C. H.
Evaluation of an improved flame resistant aircraft window system
[FAA-CT-83-10] 17 p2603 N84-26680
URBAN, C. M.
Heavy-duty fuel economy program phase 5: Investigation of a heavy-duty 3-way catalyst system
[PB84-135722] 11 p1639 N84-20715
URBAN, L. J.
Options and opportunities for standards: A NATO/AGARD viewpoint
[AD-P003577] 21 p3338 N84-31182
URBAN, S.
Users manual for NCS (National Communications System) facsimile test document tapes. Addendum
[AD-A133830] 05 p0684 N84-14498
URBANEC, Z.
Etching of moldavities under natural conditions
[NASA-TM-77334] 05 p0764 N84-15014
URBANIEC, K.
CEMA computer hardware cooperation 24 p3960 N84-35079
URBANSKI, Z.
Chemical news (selected articles)
[AD-A140887] 17 p2627 N84-26808
URIBE, F. S.
Reduction of tritium permeation through iron using aluminum-ion implantation
[DE84-000184] 04 p0500 N84-13279
URIELI, I.
Gas-fired duplex free-piston Stirling refrigerator
[PB84-171537] 17 p2639 N84-26884
URMANCHEYEVA, T. G.
Circadian pattern of simian functional parameters during hypokinesia and in the recovery period 20 p3253 N84-30650
URPO, S.
Computer programs for continuum measurements at the Metsaehovi Radio Research Station
[REPT-S-130] 09 p1370 N84-18943
Proceedings of the 16th Finnish Astronomers' Days
[REPT-S-129] 09 p1413 N84-19241
A homologous microwave flare on May 29, 1980 09 p1413 N84-19246
Measurements of the solar 160 min oscillation at the Metsaehovi radio research station in 1980-1982 and comparison with the results at the Crimean Astrophysical Observatory
[REPT-S-138] 09 p1416 N84-19268
Improved computer programs for microwave Sun observation at the Metsaehovi radio research station
[REPT-S-140] 09 p1417 N84-19269
A computer program for point-surface microwave continuum observation
[REPT-S-141] 15 p2320 N84-24925

URQUHART, J. I. A.
The implementation and use of Ada on distributed systems with high reliability requirements
[NASA-CR-175413] 12 p1876 N84-22226
URRY, C. M.
Luminosity enhancement in relativistic jets and altered luminosity functions for beamed objects
[NASA-TM-85053] 03 p0440 N84-12889
LHEA contributions to the Future of Ultraviolet Astronomy Based on Six Years of IUE Research
[NASA-TM-86098] 15 p2423 N84-25559
Very recent IUE observations of 2 BL Lacertae orbits 15 p2424 N84-25561
URRY, V. W.
Tailored testing theory and practice: A basic model, normal ogive submodels, and tailored testing algorithms
[AD-A133385] 06 p0897 N84-15824
URSIN, H.
Attention, performance, and sustained activation in military air traffic controllers 11 p1698 N84-21076
URTIEW, P. A.
Theoretical modeling of converging and diverging detonation waves in solid and gaseous explosives
[DE83-017300] 04 p0536 N84-13528
USENKO, A. D.
Measurement of thickness of SiO/sub 2 insulation layers in silicon structures with dielectric insulation 18 p2824 N84-27929
USERY, E. L.
Geometric accuracy of LANDSAT-4 MSS image data 20 p3212 N84-30406
USHAKOV, A. S.
Free amino acids of blood before and after short-term spaceflights 02 p0260 N84-11702
Use of vitamins during adaptation to high altitudes 20 p3252 N84-30643
USHAKOV, I. B.
Study of vibration resonance frequencies in rats 07 p1046 N84-16784
Rat behavior in selection of negative stimulus: Pain or exposure to electromagnetic field 20 p3255 N84-30657
USHAKOV, V. K.
Influence of vibration grinding on the properties of tungsten powders and the quality of sintered pieces
[BLL-M-35373] 08 p1140 N84-17414
USHIFUSA, Y.
An experimental study on wave interception by several pairs of balloons and a pair of grouped several balloons in submerged state 07 p0982 N84-16363
USHIODA, S.
Interactions between volume and surface EM waves in layered structures 19 p3047 N84-29331
USHITANI, S.
Development of composite fiber-optic electric-power umbilical cable and optical feedthrough for deep ocean mining 11 p1722 N84-21231
USHKOVA, I. N.
Relationship between cardiovascular system response and adrenocortical glucocorticoid function on exposure to diffuse, low-intensity helium-neon laser emission 17 p2741 N84-27405
USQUET, J.
A vectorized finite element method for computation of transonic tridimensional potential flows
[SNIAS-832-111-105] 15 p2257 N84-24555
USRY, J. W.
Comparison of low-altitude wind-shear statistics derived from measured and proposed standard wind profiles
[NASA-TM-85668] 04 p0482 N84-13172
USTYANTSEV, S. L.
Functional status in relation to work, performance and health 18 p2895 N84-28366
USUI, T.
Energy levels and transition probabilities of low Z ions for electric field determination 11 p1736 N84-21325
USUI, Y.
Critical speed of centrifugal pumps 21 p3418 N84-31677
UTELL, M. J.
Exposure chamber for studies of pollutant gases and aerosols in human subjects: Design considerations
[DE84-001135] 06 p0890 N84-15785
UTEVSKAYA, O. L.
Specifics of processes of deformation and microfracture of amorphous iron-based alloys 12 p1788 N84-21662
UTHEZA, G.
Experimental investigation of the effect of electrets on bone healing 23 p3809 N84-34150
UTRERAS, F. I.
Two-dimensional splines
[NASA-CR-173804] 19 p3082 N84-29561
UTT, E. L.
The calculated performance of some radar and transmissometer systems in rain and fog at 35, 94, 140 and 240 GHz, volume 1
[AD-A133587] 06 p0825 N84-15380
UTTAL, W. R.
The detection of nonplanar surfaces in visual space
[AD-A138761] 14 p2185 N84-24093
UTZAT, M.
Method for the production of electrographite involving about 50% reduction of electrical energy
[BMFT-FB-T-83-162] 07 p0968 N84-16275
UWATOKO, T.
An experimental study on wave interception by several pairs of balloons and a pair of grouped several balloons in submerged state 07 p0982 N84-16363
UYAMA, K.
Zero gravity experiment of superfluid helium
[ISAS-604] 07 p0960 N84-16225
UYSAL, Z.
Selection of a mineral-base lubricant for the cold rolling of aluminum strip 15 p2401 N84-25412
UZAN, J.
Development of probabilistic rigid pavement design methodologies for military airfields
[AD-A138212] 12 p1804 N84-21760
UZEL, Y.
Superconducting resonators
[BMFT-FB-T-84-119] 23 p3831 N84-34303
UZUMJAN, M. D.
Wheel efficiency in the diamond-spark erosion grinding of tungsten carbides
[CSIR-TRANS-1693] 08 p1140 N84-17418

V

VABISHCHEVICH, P. N.
Economical difference methods for solving direct problems in gravimetric and magnetic prospecting 17 p2702 N84-27209
VACCARO, P. M.
Global positioning system satellite selection evaluation for aided inertial navigation
[AD-A138070] 12 p1767 N84-21527
VACZY, C. M.
Some unsteady aerodynamic characteristics of separated and attached flow
[AD-A137070] 10 p1422 N84-19300
On the stability of flight vehicles in the low Reynolds number non-linear regime
[AD-A138379] 12 p1773 N84-21559
On the stability of flight vehicles in the low Reynolds number non-linear regime
[AD-A140008] 15 p2258 N84-24561
VADALA, E. T.
Natural weathering of selected organic matrix composites
[AD-A144091] 23 p3711 N84-33527
VADALI, S. R.
Solution of the 2-point boundary value problems of optimal spacecraft rotational maneuvers 04 p0586 N84-13870
VADYAK, J.
A grid-embedding transonic flow analysis computer program for wing/nacelle configurations
[NASA-CR-166529] 04 p0480 N84-13158
A computer program for the calculation of three-dimensional transonic nacelle/inlet flowfields
[NASA-CR-166526] 04 p0480 N84-13159
VAERNKOV, A. N.
Crystallogeometric analysis of compatibility of carbon-metal materials
[BLL-M-35559-(5828.4)] 17 p2767 N84-27570
VAETH, R.
Spacelab/Orbiter atmosphere revitalization subsystem commonality and flight experience 10 p1443 N84-19428
VAGAPOV, V. B.
Loss function used in optimization of array of coupled tracking radioelectronic systems 17 p2630 N84-26824
VAGER, Z.
Interactions of fast atomic and molecular ions with matter
[DE84-006555] 15 p2405 N84-25438
VAGIN, N. I.
Small-angle method in study of single and multiple scattering 20 p3225 N84-30492
VAGT, J. D.
Remarks on the layout of the subsonic free jet wind tunnels
[NASA-TM-77326] 09 p1258 N84-18214
VAHRENKAMP, R.
Low-power radiation-hard GaAs RAM
[AD-A132325] 04 p0526 N84-13457
Advanced on-board signal processor GaAs memory
[AD-A135465] 08 p1210 N84-17890
Low power radiation hard GaAs RAM
[AD-A139930] 15 p2329 N84-24986
VAIANA, M. E.
CLARIFY: An on-line guide for revising technical prose
[N-2037-RC] 15 p2417 N84-25509
VAICAITIS, R.
Study of noise transmission through double wall aircraft windows
[NASA-CR-172182] 02 p0287 N84-11884
Experimental study of noise transmission into a general aviation aircraft
[NASA-CR-172357] 20 p3290 N84-30888
VAIDYA, D. B.
Ultraviolet OH emissions in H2-air diffusion flames 13 p1942 N84-22629
VAIDYANATHAN, K. V.
Basic problems in InP technology
[AD-A143456] 22 p3663 N84-33222
VAINSHTEIN, A. A.
Non-uniformity of elastic micro-deformations in austenitic steels
[BLL-M-35357-(5828.4)] 04 p0497 N84-13261
Integrated evaluation of tensile strengths and ductility limits
[BLL-M-35452-(5828.4)] 08 p1169 N84-17613
VAISBERG, O. L.
Electron acceleration in the front of intense collisionless shock waves
[PR-813] 08 p1154 N84-17511
VAJDA, S.
Temperature dependence of the electric-field gradient in Er metal
[DE83-015564] 03 p0454 N84-12989
VAJO, V.
The Multiple System OFP Support (MSOS) system, a Pre-PMRT capability for evaluating tactical software
[AD-P003524] 21 p3330 N84-31128
VAKHOBOV, A. V.
Study of intermetallic compounds in ternary systems Al-Ba-Nd and Al-Ba-Yb
[BLL-M-35387-(5828.4)] 08 p1129 N84-17343
VAKKALANKA, K. V.
MIL-STD-1553B validation testing
[AD-P003544] 21 p3333 N84-31148
VAKULATHIL, A.
An optimum policy for a system of maintenance with control by a repair time distribution
[INPE-3131-PRE/522] 23 p3833 N84-34313
VAKULENKO, O. V.
Injection currents in GaAs triple crystals 18 p2825 N84-27937
VALANE, R. F.
Correlation of LANDSAT and air photo linears with roof control problems and geologic features
[PB83-250852] 04 p0555 N84-13656
VALAVANI, L.
Comments on bounded error adaptive control
[NASA-CR-173139] 07 p1057 N84-16848
Adaptive control: Myths and realities 11 p1618 N84-20586
Comments on bounded error adaptive control
[NASA-CR-173542] 15 p2399 N84-25393
Some design guidelines and discrete-time adaptive controllers
[NASA-CR-173800] 20 p3278 N84-30808
Adaptive control with variable dead-zone nonlinearities
[NASA-CR-173980] 24 p3948 N84-35001
VALDECANTOS, C.
Defects and materials characterization by analysis of ultrasonic signals
[AD-A141180] 18 p2851 N84-28101
VALDES, J.
LANDSAT-4 MSS and TM spectral class comparison and coherent noise analysis 20 p3208 N84-30381
LANDSAT-4 MSS and Thematic Mapper data quality and information content analysis 23 p3766 N84-33871
VALDES, P. M.
An error-specific approach to testing 13 p2027 N84-23143
VALDIVIA, J., JR.
Absolute electroacoustic measurement of temperature oscillations in superfluid helium by the reciprocity method
[AD-A136951] 10 p1575 N84-20322
VALE, L.
A case for olivine on Mars 13 p2087 N84-23520
VALENT, B.
AMIX: An automated system for handling error notification data 05 p0722 N84-14734

VALENTIAN
Industrialization of emitters modules, part 2
[SEP-TS/SE/BT/10457/83-PT-2] 16 p2475 N84-25866
VALENTIAN, D.
Study of Attitude Control and Guidance System (ACGS) for orbit change stage
[ESA-CR(P)-1797] 08 p1120 N84-17265
VALENTIN, F.
Flow technical problems with transitions between partial and complete filling and with flow measurement in channel sections.
[TUM-SFB-81] 08 p1160 N84-17552
VALENTINE, P. G.
Strength and thermal shock resistance of SiC-BN composites
[AD-A136891] 10 p1452 N84-19485
VALENTINI, A.
Multi-parametric data acquisition system with DC11-C interface towards PDP 11/34
[DE82-906300] 02 p0275 N84-11798
VALENTINI, J. J.
Development of the CARS method for measurement of pressure and temperature gradients in centrifuges
[DE84-006321] 11 p1629 N84-20660
VALENTINO, G.
Cordless telephone: A new degree of freedom for the telephone user 10 p1478 N84-19658
VALENTINO, P. A.
A compact fully overlapping subarray antenna
[AD-P003407] 19 p3015 N84-29111
Three dimensional, orthogonal delay line bootlace lens antenna
[AD-D011020] 19 p3018 N84-29131
VALENTINOV, A.
Resistance to robots in Soviet metallurgical plants noted 14 p2188 N84-24109
Robotization of stamping operation reviewed 23 p3728 N84-33627
VALENZUELA, A.
Colored bubbles: An experiment for triggering equatorial spread F 05 p0640 N84-14212
VALENZUELA, C.
LANDSAT-4 MSS and TM spectral class comparison and coherent noise analysis 20 p3208 N84-30381
LANDSAT-4 MSS and Thematic Mapper data quality and information content analysis 23 p3766 N84-33871
VALENZUELA, M. M.
Basic mathematical formulation of the contaminant dispersion processes 18 p2877 N84-28268
Basic mathematical formulation of contaminant dispersions 18 p2878 N84-28274
VALERIANO, D. D.
Mapping project on land use changes in the carboniferous region of Santa Catarina
[NASA-CR-173946] 23 p3763 N84-33853
VALERIO, C.
Operational utilization of remote sensing in a study of the impact of disposal of urban waste at sea 03 p0400 N84-12611
VALETON, J. M.
Visual obscuration by smoke screens: Results of the Oldebroek 2 trials, May 1981 Part 1: Theory, methods and photometric analysis
[IZF-1984-10] 19 p3105 N84-29730
VALGORA, M. E.
Factors that influence space station propulsion requirements 20 p3139 N84-29931
VALIANT, L. G.
Parallel computation 08 p1208 N84-17875
VALID, R.
Present trends in structural analysis at ONERA 03 p0429 N84-12812
The principle of virtual work and associated variational principles
[AD-B071515] 16 p2549 N84-26361
VALISETTY, R. R.
Bending of beams, plates and laminates: Refined theories and comparative studies 05 p0691 N84-14540
VALK, J.
Experimental and theoretical analysis of the relation between received signal power and signal to noise ratio of a heterodyne laser detection system
[PHL-1983-02] 02 p0228 N84-11495
VALLABHAN, C. V. G.
Nonlinear analysis of rectangular glass plates by Galerkin method
[PB84-159649] 15 p2302 N84-24819
VALLADARES, C. E.
Bottomside sinusoidal waves, a new class of equatorial plasma irregularities 05 p0705 N84-14628
VALLARIO, R. W.
State of technology of direct contact heat exchanging
[DE84-012824] 21 p3402 N84-31585
VALLERGA, J.
A mercuric detector system for X-ray astronomy. 2. Results from flight tests of a balloon borne instrument
[NASA-CR-175329] 06 p0938 N84-16095
Development of a mercuric iodide solid state spectrometer for X-ray astronomy
[NASA-CR-175330] 06 p0938 N84-16096
VALLET, C. E.
Composition gradients in electrolyzed LiCl-KCl melts
[DE83-012347] 01 p0037 N84-10237
In-situ photoacoustic spectrometry for corrosion studies
[DE84-001994] 04 p0496 N84-13254
VALLOR, R.
New polyconjugated oxidation-reduction polymers, as well as a method and apparatus for electrochemical regeneration
[DE84-002813] 06 p0810 N84-15276
VALTONEN, M.
The fate of the magellanic clouds 09 p1413 N84-19248
VALTONEN, M. J.
Orbital eccentricity in a logarithmic potential 09 p1414 N84-19249
VALUYEV, A. D.
Television system for monitoring target position in laser thermonuclear fusion experiments 13 p1969 N84-22781
VAMPOLA, A. L.
Observations of VLF transmitter-induced depletions of inner zone electrons
[AD-A137982] 12 p1847 N84-22042
Electron energy deposition in the middle atmosphere
[AD-A139122] 14 p2175 N84-24032
VAN DAM, J. W.
Energetic-particle stabilization of ballooning modes in Tokamaks
[DE83-016205] 04 p0609 N84-14020
VAN RYSWYK, H.
Polarization effects in the luminescence of cadmium selenide electrodes
[AD-A133951] 05 p0647 N84-14253
VANAARDT, J. H. P.
High alumina cement concrete
[CSIR-BRR-573] 04 p0505 N84-13311
VANALLEN, J. A.
Research in space physics at the University of Iowa, 1982
[NASA-CR-175411] 11 p1754 N84-21447
Geometrical relationships of Pioneer 11 to Uranus and Voyager 2 in 1985-86
[NASA-CR-173675] 22 p3539 N84-32406
VANALTENA, W.
Diagnosing a PDS microdensitometer 18 p2839 N84-28021
Improvements to the Photometric response and positional accuracy of the Yale PDS 2020G microdensitometer 18 p2840 N84-28033
VANARSDALL, P. J.
NOVANET: Communications network for a control system
[DE83-013862] 04 p0523 N84-13436
Nova laser alignment control system
[DE84-010992] 20 p3194 N84-30288
VANASSELT, E. J.
Termination strategies for Newton iteration in full multigrid methods
[MC-NW-159/83] 07 p1066 N84-16921
On M-functions and nonlinear relaxation methods
[MC-NW-160/83] 07 p1066 N84-16922
VANAST, C. I.
Effects of cyclohexyl groups and ortho-substituents on the viscosity of ester liquid crystal components
[AD-A143028] 21 p3504 N84-32205
VANBAKEL, J. G.
The measurement of mechanical point admittances by means of hammer excitation and tape recording. Part 1: A feasibility study
[TPD-308.780/1-VOL-1] 12 p1900 N84-22375
The measurement of mechanical point admittances by means of hammer excitation and tape recording. Part 2: Measuring and processing rules
[TPD-308.780/2-VOL-2] 12 p1900 N84-22376
VANBAVEL, C. H. M.
CONSERVB: A numerical method to compute soil water content and temperature profiles under a bare surface
[E84-10113] 13 p2005 N84-23006
Estimating net rainfall, evaporation and water storage of a bare soil from sequential L-band emissivities 23 p3769 N84-33889
VANBREDA, I. G.
The current status and future upgrade of the PDS at the Royal Greenwich Observatory 18 p2840 N84-28031
VANBUREN, D.
Stellar winds and their dynamical influence on the interstellar medium 23 p3840 N84-34358
VANCE, E. F.
Nuclear electromagnetic pulse (EMP) and electric power systems
[DE84-010665] 20 p3175 N84-30166
VANCLEAVE, H. D.
Atmospheric emergencies: Existing capabilities and future needs
[PB83-250779] 05 p0701 N84-14602
VANCON, M.
Investigation of damage and damage propagation in static and fatigue tests on carbon epoxy composites
[SNIAS-841-551-102] 21 p3358 N84-31298
VANDALSEM, W. R.
Simulation of transonic separated airfoil flow by finite difference viscous-inviscid interaction
[NASA-TM-85980] 22 p3531 N84-32358
VANDAM, C. P.
An experimental and theoretical investigation of deposition patterns from an agricultural airplane
[NASA-TP-2348] 23 p3689 N84-33379
VANDAM, C. P. G. D.
Analysis of nonplanar wing-tip mounted lifting surfaces on low-speed airplanes 06 p0786 N84-15142
VANDAM, H.
Research in theoretical physics
[DE83-0166222] 03 p0456 N84-13004
Spinorial relativistic rotator: The transformation from quasi-Newtonian to Minokowski coordinates
[DE84-009091] 20 p3282 N84-30839
VANDAM, J. W.
Linear relativistic gyrokinetic equation in general magnetically confined plasmas
[DE84-000048] 04 p0610 N84-14027
Radial structure of curvature-driven instabilities in hot-electron plasma
[DE84-002256] 06 p0921 N84-15986
VANDANAVYLE, J. A.
Analysis of soldering-induced cracking of $BaTiO_3$ ceramic capacitors
[DE83-013980] 02 p0200 N84-11304
VANDEBERG, A.
Oligomerization and butenolysis of olefins by metathesis: Contributions to a chemical use of industrial C4-olefins
[BMFT-FB-T-83-184] 10 p1457 N84-19518
VANDEBULT, C. E. P. M.
The 3 micron ice band 16 p2570 N84-26494
The 3 micron ice band 18 p2948 N84-28692
Ice in comet dust 18 p2949 N84-28702
VANDEEIKHOFF, J.
Verification of the plate element with bending (element 11) of the program OPTIMA
[IWECO-5074403-83-2] 18 p2854 N84-28121
VANDEGRAAFF, R. C.
Human visual information processing: Basic viewpoints from psychology and human engineering research
[NLR-MP-82032-U] 06 p0892 N84-15798
VANDEGRIEND, J. A.
An operational remote sensing methodology for the detection, inventory and environmental monitoring of waste disposal sites 03 p0398 N84-12601
VANDEGRIFT, R. E.
Accuracy of three dimensional solid finite elements 22 p3609 N84-32867
VANDENEUVEL, W. C. J.
Feasibility study for the improvement of automatic detection of bird migration with radar images
[LEOK-TR-1983-12] 18 p2790 N84-27704
VANDEKIEFT, L.
Status of ammonium nitrate in propellants and explosives 13 p1948 N84-22655
VANDELAGEMAAT, C.
Open and closed loop steering in a lane change maneuver
[IZF-1983-22] 12 p1867 N84-22167
VANDELUNE, J.
Numerical computation of special zeros of partial sums of Riemann's zeta function 08 p1225 N84-18005
The first 200,000,001 zeros of Riemann's zeta function 08 p1225 N84-18006
Some observations concerning the zero-curves of the real and imaginary parts of Riemann's zeta function
[MC-ZW-201/83] 21 p3476 N84-32030
VANDEN-BROECK, J. M.
Fingers in a Hele-Shaw cell with surface tension
[AD-A130548] 01 p0130 N84-10852
Influence of surface tension and surface shear on final coat thickness in jet-stripped continuous coating of sheet materials
[AD-A136402] 09 p1314 N84-18586
Flow past a flexible membrane
[AD-P002938] 14 p2197 N84-24178
Wave-less free-surface pressure distributions
[AD-A141630] 19 p3024 N84-29176

VANDENASSEM, D.
Liquid flow through mesh-wire gauze wicks
[NLR-TR-83104-U] 21 p3403 N84-31592
VANDENASSEN, D.
Preliminary experiments with an electro-osmotic heat pipe laboratory model
[AD-B081344] 15 p2332 N84-25004
VANDENAVYLE, J. A.
Fracture-toughness testing of ductile cast irons
[DE83-010824] 01 p0046 N84-10294
Single specimen J-integral testing
[DE83-016069] 03 p0390 N84-12543
VANDENBERG, B.
Some notes on 3-dimensional turbulent boundary layer data and turbulence modeling
[NLR-MP-82007-U] 06 p0845 N84-15513
Three-dimensional boundary layer calculations on wings, starting from the fuselage
[NLR-MP-82060-U] 09 p1317 N84-18603
VANDENBERG, J.
Optimization of breakwater lengths in relation to wave penetration
[PUBL-312] 15 p2360 N84-25160
VANDENBERG, P. M.
Reflection and transmission of electromagnetic waves at a rough interface between two different media
[PB83-217588] 06 p0826 N84-15389
Least-square iterative techniques for solving integral equations
[PB83-166751] 06 p0903 N84-15564
VANDENBERG, S. J.
Reliability model demonstration study, volume 1
[AD-A138196] 12 p1881 N84-22262
Reliability model demonstration study, volume 2
[AD-A138197] 12 p1881 N84-22263
VANDENBOSCH, F. J.
Functional requirements for the development and use of a software-cost database
[AD-B079998] 12 p1885 N84-22287
VANDENBOSCH, R.
University of Washington superconducting-booster project
[DE83-015689] 03 p0434 N84-12846
VANDENBROECK, J. M.
Bubbles rising in a tube and jets falling from a nozzle
[AD-A139266] 14 p2145 N84-23858
Numerical solutions for cavitating flow of a fluid with surface tension past a curved obstacle
[AD-A144695] 24 p3901 N84-34704
Rising bubbles in a two-dimensional tube with surface tension
[AD-A144693] 24 p3953 N84-35031
VANDENBROEK, G. J.
An analytical method to calculate the flow field about blunt bodies of revolution at incidence in supersonic free stream flow
[CSIR-NIAST-82/72] 04 p0479 N84-13156
The linear vortex distribution using the alternative approach
[NIAST-82/80] 07 p0945 N84-16133
VANDENBULCKE, L.
Theoretical influence of the deposition conditions on the uniformity of boron carbide coatings
13 p1954 N84-22707
Thermodynamics and kinetics of the gas phase and pack aluminide coating formation on iron and steel
13 p2049 N84-23291
VANDENDAM, R. F.
An interactive system for the analysis and constrained minimization of induced drag of aircraft configurations (SAMID)
[NLR-MP-82057-U] 12 p1767 N84-21523
The influence of Computer Aided Design (CAD) on research
[NLR-MP-83026-U] 21 p3467 N84-31984
VANDENEERSTEN, W. J.
PASCAL packages for ASC II file I/O and CDC and dynamic strings
[PHL-1983-18] 12 p1884 N84-22285
VANDENEIJNDEN, P. M. C.
Job handling in a network of distributed processors
[EUT-82-E-131] 10 p1566 N84-20262
VANDENHEUVEL, W. M. C.
Interruption of a dry-type transformer in no-load by a vacuum circuit-breaker
[EUT-83-E-141] 10 p1489 N84-19737
VANDENHOEK, R.
The effects of vegetation and soil hydraulic properties on passive microwave sensing of soil moisture: Data report for the 1982 fiels experiments
[NASA-TM-85106] 07 p1023 N84-16833
VANDENHOF, P. M. J.
The Page Matrix: An excellent tool for noise filtering of Markov parameters, order testing and realization
[EUT-82-E-127] 10 p1489 N84-19735
VANDERBILT, V. C.
Measurement and modeling of the optical scattering properties of crop canopies 12 p1831 N84-21934
Measurement and modeling of the optical scattering properties of crop canopies 12 p1833 N84-21948
VANDERBRANDT, B.
Rapid solidification processing of Al-Cu-Li-Mg alloys
[VTH-LR-380] 10 p1464 N84-19560
VANDERBRINK, P. J.
Rapid solidification processing of Al-Cu-Li-Mg alloys
[VTH-LR-380] 10 p1464 N84-19560
VANDERDUYNSCHOUTEN, F. A.
Markov decision processes with continuous time parameter
[MATH-CENTRE-TRACTS-164]
08 p1217 N84-17940
VANDEREIKHOFF, J.
Prediction of ductile crack growth in the austenitic steel WN 1.4948 at ambient and elevated temperature
[REPT-5011202-81-2] 17 p2625 N84-26799
VANDERGOOT, C. J.
The use of trajectories in short range weather forecasting
[KNMI-TR-35] 12 p1861 N84-22126
VANDERGRAAF, B.
Structure-borne sound transfer functions of a Dunlop Super "D" flexible mounting
[TPD-408.870/1] 17 p2763 N84-27552
VANDERHELD, E. F. M.
Temperature rise of handles and knobs
[BLL-OA-TRANS-3047-(6196.3)]
04 p0533 N84-13502
VANDERHILL, M. J.
Rain rate climatologies over marine regions
[AD-A144066] 23 p3802 N84-34109
VANDERHOEVEN, P. C. T.
Observations of surface water temperature and salinity in the Eastern part of the East Scheldt from 1921 until present
[KNMI-TR-40(FM)] 10 p1526 N84-19999
Observations of surface water temperature and salinity in the East Scheldt during the period 1894-1982
[KNMI-WR-83-12(FM)] 10 p1540 N84-20094
On point processes
[MATH-CENTRE-TRACTS-165]
21 p3475 N84-32025
VANDERHOEVEN, W.
The effects of strain rate and temperature on the fracture behavior of three structural adhesives
[AD-B084418] 20 p3164 N84-30097
VANDERHOFF, J. A.
Laser spectroscopy of propellant-like flames
[AD-A132042] 03 p0349 N84-12267
Intracavity laser excitation of NCO fluorescence in an atmospheric pressure flame
[AD-A134740] 08 p1164 N84-17579
VANDERHORST, A. R. A.
Open and closed loop steering in a lane change maneuver
[IZF-1983-22] 12 p1867 N84-22167
VANDERHOUWEN, P. J.
Stability in linear multistep methods for pure delay equations
[MC-NW-152/83] 07 p1065 N84-16913
Linear multistep methods with minimized truncation error for periodic initial value problems
[MC-NW-157/83] 13 p2034 N84-23195
VANDERKLIS, M.
Observations of extensive variability in the ultraviolet spectrum of xi Per 24 p3977 N84-35190
Evidence for variations in the phase-dependent ionization structure of the stellar wind in Vela X-1
24 p3981 N84-35220
VANDERKOLK, G. J.
Information processing for use in the treatment of severely physically handicapped persons
20 p3264 N84-30711
VANDERKOLK, J. T.
Current development at National Aerospace Laboratory (NLR) and Fokker in computer aided aerodynamic design
[NLR-MP-83031-U] 18 p2922 N84-28530
VANDERKROGT, A. H.
Development of an instrumented riser joint
17 p2629 N84-26818
VANDERLAAN, J. M.
Experimental vortex analyzer
[NLR-MP-82006-U] 02 p0175 N84-11151
VANDERLEEDEN, G. A.
Semiconductor processing with excimer lasers
[DE83-007509] 03 p0380 N84-12477
Update of pulsed-laser processing technology for high-efficiency silicon solar cells
[DE84-000638] 04 p0559 N84-13684
Beam processing for high-efficiency Si solar cells
[DE84-002059] 06 p0874 N84-15690
VANDERLINDEN, F. J.
The computation of Galois groups
08 p1225 N84-18000
VANDERLINDEN, H. H.
New analytical methods for the prediction of fatigue crack growth under realistic loading
[NLR-MP-82055-U] 09 p1335 N84-18713
VANDERLINGEN, J.
Bibliography of the climate of the Netherlands and atmospheric conditions in the Netherlands
[KNMI-164] 05 p0708 N84-14635
VANDERLUBBE, J. C. A.
A generalized class of certainty and information measures
[NLR-MP-82038-U] 15 p2397 N84-25379
An axiomatic theory of concentration and diversity
[NLR-MP-83015-U] 17 p2760 N84-27531
VANDERLUGT, A.
Optical signal processing
[AD-A135908] 09 p1389 N84-19074
VANDERMEER, J. J. E.
Clines induced by a geographical barrier
[MC-TW-244/83] 07 p1065 N84-16908
VANDERMEER, R. A.
Degradation of shape memory effect
[DE83-016586] 03 p0353 N84-12295
Dilatometric investigation of phase-transformation kinetics in HP 9-4-20 steel
[DE84-001180] 04 p0500 N84-13280
VANDERMERWE, J. H.
Structural properties of epitaxial single layer metals on (110) B.C.C. metal substrates 06 p0817 N84-15326
VANDERMOEZEL, B.
Airborne real time multisensor navigation
[AD-B079957] 12 p1768 N84-21534
VANDERPEET, J. B. M.
Gate arrays
[AD-B082958] 20 p3182 N84-30214
VANDERPIEPEN, H.
Ocean Color Working Group report to ESA Observation Advisory Committee
[ESA-BR-20] 23 p3785 N84-34003
VANDERPLOEG, T.
Some aspects of the high equatorial orbit for the Tropical Earth Resources Satellite (TERS)
[VTH-LR-404] 12 p1904 N84-22400
VANDERPUT, M.
Formal and group Picard localization
13 p2032 N84-23174
VANDERROER, T. G.
A method for solving Boltzmann's equation in semiconductors by expansion in Legendre polynomials
[EUT-83-E-134] 10 p1590 N84-20420
VANDERSANDE, J. B.
Irradiation response in titanium-modified austenitic stainless steels prepared by rapid-solidification processing. Part 3. A model for the effect of titanium addition
[DE84-001296] 04 p0500 N84-13281
Irradiation response in titanium-modified austenitic stainless steels prepared by rapid-solidification processing. Part 2. Dual-ion irradiations
[DE84-001297] 04 p0500 N84-13282
Irradiation response in titanium-modified austenitic stainless steels prepared by rapid-solidification processing. Part 1: Microstructural response to neutron irradiation
[DE84-001298] 04 p0501 N84-13283
VANDERSPEK, R. K.
A mercuric detector system for X-ray astronomy. 2. Results from flight tests of a balloon borne instrument
[NASA-CR-175329] 06 p0938 N84-16095
VANDERVAART, J. C.
Accuracy of visually perceived roll angle and roll rate using an artificial horizon and peripheral displays
[VTH-LR-377] 10 p1552 N84-20171
VANDERVEEN, C.
Heron, volume 28, no. 1, 1983. Dynamic elasto-plastic model for reinforced concrete members
[PB84-109057] 08 p1172 N84-17635
VANDERVEEN, J. C. T.
The application of fiber optics in aircraft instrumentation: Technology assessment
[NLR-TR-83048-U] 23 p3694 N84-33409
VANDERVELDE, W. E.
Reliability issues in active control of large flexible space structures
[NASA-CR-175341] 07 p0964 N84-16248
The dynamics of software development project management: An integrative systems dynamic perspective
[NASA-CR-175342] 07 p1054 N84-16824
Reliability analysis of an ultra-reliable fault tolerant control system
[NASA-CR-166594] 21 p3345 N84-31219
VANDERVELDT, R.
A utility plant simulator for control room experiments
20 p3264 N84-30708

VANDERVOORTMAARSCHALT, C. W. G.
Software flexibility ensured success of Dutch Astronomical Netherlands Satellite (ANS) and Infrared Astronomical Satellite (IRAS) satellites
05 p0725 N84-14758
VANDERVORST, H. A.
Solution methods for large sparse linear systems
[AD-A134529] 07 p1062 N84-16885
VANDERWALL, J.
A high performance fiber optic telemetry link for use in a space radiation simulator
[AD-A132738] 05 p0643 N84-14232
VANDERWEES, A. J.
Grid-size reduction in flow calculations on infinite domains by higher-order far-field asymptotics in numerical boundary conditions
[NLR-MP-83029-U] 20 p3187 N84-30253
VANDERZWAAG, S.
Liquid impact erosion mechanisms in transparent materials
[AD-A135891] 09 p1287 N84-18405
VANDESANDE, E.
Resonance in the water circuit of a cooling tower
[S/T-REPT-VOL-1-NO-2] 20 p3188 N84-30254
VANDESSEL, E. L.
Coordinated X-ray, ultraviolet, optical, and infrared observations of the transient source A0535+26
24 p3981 N84-35219
VANDEURSEN, H.
Amplitude Compandored Sideband compared to conventional frequency modulation for VHF mobile radio: Laboratory and field testing results
[PB84-116383] 08 p1148 N84-17474
VANDEVEN, H. H.
Time optimal control of a crane
[EUT-83-E-135] 10 p1568 N84-20271
VANDEVENDER, J. P.
Light-ion-beam fusion
[DE83-018263] 03 p0448 N84-12944
Ampfion hybrid diodes on hydramite and PBFA-1
[DE83-017824] 03 p0448 N84-12945
Light ion fusion
[DE84-003767] 08 p1233 N84-18061
VANDEVENDER, W. H.
SLATEC mathematical subprogram library, version 2.0
[DE84-010750] 20 p3274 N84-30782
VANDEVENTER, E. H.
Molten carbonate fuel cell cathode development
[DE84-012101] 21 p3395 N84-31544
VANDEVENTER, F. W. J.
Airfield Noise Evaluation Program (ANEP)
[VTH-LR-370] 17 p2725 N84-27342
VANDIETEN, J.
Supervisory control: Introduction and theory
20 p3263 N84-30706
Evaluation of arm protheses for unilateral amputees
20 p3264 N84-30713
VANDIJK, A.
Communication aids for the handicapped
20 p3265 N84-30715
VANDIJK, C. A.
Characterization of hydroxylammonium nitrate (HAN) at various pressures and temperatures
[AD-A131574] 02 p0203 N84-11324
VANDIJK, J. W.
The use of TEA and multiatmosphere CO2 lasers in active remote sensing 24 p3907 N84-34749
VANDITSCHUIZEN, J. C. A.
Acoustic wave propagation through shear layer of the German-Dutch open jet wind tunnel (DNW)
[NLR-MP-83003-U] 12 p1901 N84-22379
VANDOMSELAAR, H.
Proceedings of the 1982 Forum on Subsidence Due to Fluid Withdrawals
[DE84-001028] 05 p0704 N84-14618
VANDOORN, E. A.
On orthogonal polynomials on a half line and the associated kernel polynomials
[MC-BW-182/83] 13 p2034 N84-23192
A note on the overflow process from a finite Markovian queue
[MC-BW-179/83] 13 p2036 N84-23211
Some analytical aspects of the peakedness concept
[MC-BW-183/83] 13 p2037 N84-23217
Connectivity of circulant digraphs
[MC-BW-186/83] 13 p2038 N84-23220
A note on Delbrouck's approximate solution to the heterogeneous blocking problem
[MC-BW-190/83] 17 p2761 N84-27536
VANDREUMEL, W. H. M.
Nondestructive ultrasonic investigation of modern fiber reinforced composites
[VTH-LR-382] 12 p1824 N84-21893
VANDRIEL, M. A.
Linearity and resolution of photodiodes
[DE84-002761] 07 p0998 N84-16470
VANDROMME, D. D.
Solution of the compressible Navier-Stokes equations: Applications to complex turbulent flows
16 p2492 N84-25991
VANDUREN, H.
Dispersion experiments with sulfur hexafluoride from the 213m high meteorological mast at Cabauw in the Netherlands 08 p1183 N84-17706
VANE, C. R.
Implications of heavy-ion-induced satellite X-ray emission. 1: Introduction
[DE83-015682] 03 p0435 N84-12851
Implications of heavy-ion-induced satellite X-ray emission. Part 2: Production of K and L X-rays by 0.9 to 2.6 MeV/u Ar ions in thick targets of V, Cu, Nb, Ta, and Pt
[DE83-015681] 03 p0453 N84-12982
VANE, G.
Airborne Visible/Infrared Imaging Spectrometer (AVIRIS): An advanced tool for Earth remote sensing
23 p3781 N84-33976
VANECEK, D.
A high current heavy ion beam transport experiment at LBL
[DE84-009225] 20 p3294 N84-30912
VANECHO, J. A.
Measurements of elastohydrodynamic film thickness, wear and tempering behavior of high pressure oxygen turbopump bearings
[NASA-CR-171008] 13 p1997 N84-22960
VANEK, J.
Homogeneous magnitude system of the Eurasian continent: S and L waves
[PB84-101161] 08 p1188 N84-17744
VANELST, H. C.
Weldability of steels: Study of cracking and methods of examination
[BLL-RISLEY-TRANS-4519-(9091.9)]
22 p3550 N84-32475
VANEMDEBOAS, P.
Machine models, computational complexity and number theory 08 p1223 N84-17991
Bounded tiling, an alternative to satisfiability
[CWI-OS-R8405] 19 p3092 N84-29638
VANENGELEN, A. F. V.
A model to calculate hourly temperatures from three regular readings, part 3
[KNMI-165-3] 10 p1540 N84-20093
VANES, A. J.
Random number generators for a pocket calculator
[MC-SW-93/83] 07 p1064 N84-16904
VANETTI, D.
Fast automatic reconnaissance in land observations images by means of analog and/or digital images
23 p3768 N84-33885
VANFLEET, D. D.
Factor stability and construct validation of Yukl's MBS (Managerial Behavior Survey) for military leadership
[AD-P003246] 18 p2904 N84-28413
VANFOSSEN, G. J.
Heat transfer distributions around nominal ice accretion shapes formed on a cylinder in the NASA Lewis icing research tunnel
[NASA-TM-83557] 05 p0679 N84-14463
Effect of a rotor wake on heat transfer from a circular cylinder
[NASA-TM-83613] 12 p1815 N84-21832
VANGASTEL, K.
On the growth of gravity-capillary waves by wind
[KNMI-WR-83-10] 03 p0412 N84-12698
VANGELDER, B. H. W.
Space/Airborne Laser Ranging (SALR) as complement to groundbased transportable Satellite Laser Ranging (SLR) 24 p3906 N84-34742
VANGENDEREN, J. L.
An operational remote sensing methodology for the detection, inventory and environmental monitoring of waste disposal sites 03 p0398 N84-12601
VANGILS, S. A.
Linear Volterra convolution equations: Semigroups small solutions and convergence of projection operators
[MC-TW-248/83] 13 p2038 N84-23223
Hopf bifurcation and symmetry: Traveling and standing waves on the circle
[MC-TW-249/83] 19 p3091 N84-29631
VANGINHOVEN, I.
Swedish firm first in Scandinavia to master GaAs technology 24 p3892 N84-34646
VANGOOL, M. F. C.
Low-speed handling qualities of advanced transport aircraft: A comparison of ground-based and in-flight simulator experiments
[NLR-TR-82041-U-REV] 09 p1258 N84-18212
VANGROENEWOUD, G. J. H.
Investigation of the laminar turbulent boundary layer transition on the rotor blades of the 25 m wind turbine HAT
[VTH-LR-390] 12 p1817 N84-21844
VANGROESEN, E. W. C.
Applications of natural constraints in critical point theory to periodic solutions of natural Hamiltonian systems
[AD-A136346] 09 p1373 N84-18968
Applications of natural constraints in critical point theory to boundary value problems on domains with rotation symmetry
[AD-A136404] 09 p1374 N84-18976
VANGULICK, L. A.
Slideline vertification for multilayer pressure vessel and piping analysis including tangential analysis
[DE84-004333] 21 p3423 N84-31711
VANHAAFTEN, D.
Thermomagnetic generator
[DE84-007685] 15 p2365 N84-25189
VANHEDEL, H.
An engineering data management system for computer aided design
[NLR-MP-82050-U] 09 p1405 N84-19180
VANHOLTZ, L.
Accomodation of candidate laser communication links on selected spacecraft configurations
24 p3905 N84-34734
VANHOLTZ, R. C.
Infrared Astronomical Satellite (IRAS) end-to-end data system 05 p0725 N84-14763
VANHOOF, H. A. J. M.
Coupling of airborne sound in a sandy soil
[LEOK-TR-1983-09] 13 p2040 N84-23238
Inventory RF radiation levels in the Netherlands, part 1
[LEOK-TR-1984-02-PT-1] 20 p3175 N84-30167
VANHOVE, W.
Effects of a skewed inlet end wall boundary layer on the 3-D flow field in an annular turbine cascade
07 p0956 N84-16202
VANHOY, B. W.
Technique for modal data acquisition in remote locations using hand portable instrumentation
[DE84-005755] 12 p1819 N84-21854
VANHUYGEVOORT, B.
Treatment of patients with a lesion of the brachial plexus 20 p3264 N84-30712
VANIER, P. E.
Effect of silane fraction on the optoelectronic and photovoltaic properties of RF-glow-discharge a-Si:H prepared from SiH4 + H2 mixtures
[DE83-016730] 04 p0615 N84-14058
Low temperature (150 to 250(0)C) depoeition of n(+) and p(+) microcrystalline silicon for VLSI device contacts
[DE84-006474] 14 p2243 N84-24470
Mechanisms involved in the glow-discharge deposition of doped hydrogenated amorphous silicon
[DE84-013124] 22 p3665 N84-33236
Nucleation and growth of N- and P-type microcrystals in low-temperature glow-discharge deposited silicon films
[DE84-013122] 22 p3667 N84-33246
VANINGEN, J. L.
Investigation of the laminar turbulent boundary layer transition on the rotor blades of the 25 m wind turbine HAT
[VTH-LR-390] 12 p1817 N84-21844
VANKA, S. P.
Computations of turbulent recirculating flows with fully coupled solution of momentum and continuity equations
[DE84-001529] 04 p0535 N84-13518
Fully-coupled solution of pressure-linked fluid flow equations
[DE83-017989] 04 p0536 N84-13527
Fully coupled calculation of fluid flows with limited use of computer storage
[DE84-002218] 08 p0844 N84-15508
Advanced numerics for multi-dimensional fluid flow calculations 11 p1610 N84-20539
Efficient finite-difference calculation procedure for multi-dimensional fluid flows
[DE84-011710] 21 p3401 N84-31577
VANKAMPEN, G. P.
Mechanical force and cartilage metabolism
23 p3808 N84-34147
VANKASTEREN, H. W. J.
Hot spot reflectance measurements applied to green biomass estimation and crop growth monitoring
[NLR-MP-83037-U] 17 p2721 N84-27323
VANKIRK, D. W.
User-friendly interface to the Roth relational database
[AD-A138153] 12 p1877 N84-22234

VANLEER, B.
Multidimensional explicit difference schemes for hyperbolic conservation laws
[NASA-CR-172254] 03 p0425 N84-12778
Computational methods for ideal compressible flow 06 p0838 N84-15462
Flux-vector splitting and Runge-Kutta methods for the Euler equations
[NASA-CR-172415] 21 p3470 N84-31993
VANLEEUWEN, E. H.
Large amplitude waves generated by an explosive mechanism
[MRL-R-905] 08 p1155 N84-17524
VANLEEUWEN, H. P.
The corrosion-fatigue cooperative testing programme 12 p1763 N84-21497
Fugacity of gaseous hydrogen
[NLR-MP-83035-U] 17 p2669 N84-27019
VANLEEUWEN, J.
Foundations of computer science 4. Distributed systems. Part 1: Algorithms and complexity
[MATH-CENTRE-TRACTS-158-PT-1] 08 p1207 N84-17873
Distributed computing 08 p1208 N84-17874
Systolic computation and VLSI 08 p1208 N84-17877
Foundations of computer science 4. Distributed systems. Part 2: Semantics and logic
[MATH-CENTRE-TRACTS-159-PT-2] 08 p1208 N84-17879
VANLEEUWEN, P. L.
Thermal design and performance of the IRAS spacecraft system 10 p1441 N84-19415
VANLEEUWEN, S. S.
Instrumentation for in-flight acoustic measurements in an engine intake
[NLR-MP-83060-U] 20 p3292 N84-30896
VANLIEMPT, J. H. M.
Thermal stability of diethylene glycol dinitrate (DEGN) propellant
[PML-1983-22] 12 p1803 N84-21752
VANLINT, V. A. J.
Nuclear-induced lightning aurora experiment
[AD-A131274] 02 p0249 N84-11628
Ion-ion recombination rate in the EMP source region
[AD-A131148] 03 p0360 N84-12339
Electron charging and SGEMP (System Generated Electromagnetic Pulse) studies on satellite dielectrics
[AD-A143012] 21 p3353 N84-31268
VANLONDEN, A.
The evaluation of rain gages, illustrated by the Thies rain gage and the electrical rain gage of the Royal Netherlands Meteorological Institute (KNMI)
[KNMI-WR-83-16] 14 p2180 N84-24057
VANLOON, H.
Studies in climate
[PB84-196365] 22 p3626 N84-32977
VANLUIK, A.
Geology, hydrology, and mineral resources of crystalline rock areas of the Lake Superior region, US, part 1
[DE84-012682] 21 p3432 N84-31775
VANLUMMEL, C. W. J.
Operational loads on B-747 aircraft: Design assumptions, actual experience and maintenance aspects 17 p2585 N84-26569
Operational loads on B-747 aircraft: Design assumptions, actual experience and maintenance aspects
[NLR-MP-83051-U] 17 p2606 N84-26697
VANLUNTEREN-GERRITSEN, E.
Evaluation of arm protheses for unilateral amputees 20 p3264 N84-30713
VANLUNTEREN, T.
Man-machine systems group
[WTHD-161] 20 p3263 N84-30703
Summaries of doctorate theses 20 p3263 N84-30705
Information processing for use in the treatment of severely physically handicapped persons 20 p3264 N84-30711
Evaluation of arm protheses for unilateral amputees 20 p3264 N84-30713
Proprioception 20 p3264 N84-30714
VANMAARSEVEEN, I. L.
Spectrographic investigation of gold by Grimm lamp
[CSIR-SR-283] 04 p0493 N84-13233
VANMELLE, A.
Error analysis for marine geodetic control using the global positioning system
[AD-A140566] 17 p2605 N84-26687
VANMEURS, W. J.
A concurrent PASCAL implementation on a Rolm 1664
[NLR-MP-83035-U] 18 p2922 N84-28531
VANMIEGROET, H.
Effects of acid precipitation and natural processes on cation leaching from 4 diverse forest ecosystems
[DE83-015759] 01 p0103 N84-10671
VANMIERLO, J.
Problems of computing costs in decision problems 16 p2505 N84-26075
VANMOORHEM, W. K.
Acoustic propagation in a thermally stratified atmosphere
[NASA-CR-173863] 21 p3491 N84-32121
VANN, R. D.
Decompression mechanisms and decompression schedule calculations
[AD-A137868] 11 p1595 N84-21060
VANNARONI, G.
Low noise amplifier with a JFET inlet stage
[IFSI-83-8] 05 p0677 N84-14452
Control of the HP3325 frequency synthesizer by a PDP 11 computer for gravitational experiments
[IFSI-83-9] 05 p0683 N84-14492
VANNICE, M. A.
Crystallite size and support effects on CO hydrogenation reactions
[DE84-012474] 21 p3360 N84-31314
VANNIKOV, A. V.
Effect of laminated structure in materials based on complexes with charge transfer 18 p2826 N84-27943
VANOLSHAUSEN, R.
Electrochemical-treeing (ECT) structures in high-voltage cable insulation
[BMFT-FB-T-83-087] 02 p0215 N84-11413
VANOMMERING, G.
Bipolar nickel-hydrogen batteries for aerospace applications 23 p3739 N84-33701
VANOOST, S.
Two-phase heat transport system conceptual studies
[SABCA-JPM/LN/HO5/N117] 18 p2807 N84-27822
VANPUTTEN, C.
Random number generators for a pocket calculator
[MC-SW-93/83] 07 p1064 N84-16904
Invariance properties of the conditional independence relation
[MC-BW-193/83] 17 p2761 N84-27533
VANRAAIJ, J. L.
The audiomat: An automatic audiometer to be used in occupational audiometry
[IZF-1983-17] 12 p1900 N84-22372
VANRIJSWIJK, M. W.
The penetration model of Dehn
[PML-1984-5] 20 p3199 N84-30316
VANRIPER, K. A.
How to use TRIX RED to format equations for REDPP and other tricks
[DE84-006328] 12 p1884 N84-22280
VANRONGEN, H. J. M.
Prediction of ductile crack growth in the austenitic steel WN 1.4948 at ambient and elevated temperature
[REPT-5011202-81-2] 17 p2625 N84-26799
VANROOIJEN, J.
The ISPM solar-flare X-ray and cosmic gamma-ray burst experiment 09 p1262 N84-18238
VANROOYEN, D.
Cathodic protection in simulated geothermal environments
[DE83-013690] 01 p0045 N84-10291
Initiation and propagation of stress-corrosion cracking of Alloy 600 in high-temperature water
[DE84-000623] 07 p0975 N84-16316
Intergranular failures of Alloy 600 in high temperature caustic environments
[DE84-010890] 20 p3155 N84-30032
Mechanisms of intergranular failures in Alloy 600 in high temperature environments
[DE84-010514] 20 p3155 N84-30033
VANROOYEN, J.
Women at work and stress
[R/PERS-626] 04 p0573 N84-13777
VANROSENDALE, J.
An intersection algorithm for moving parts 12 p1871 N84-22193
On the impact of communication complexity in the design of parallel numerical algorithms
[NASA-CR-172436] 22 p3637 N84-33059
VANROY, B. H.
Measurement and calculation of parameters in the silox diffusion process
[EUT-83-E-133] 13 p2048 N84-23289
VANRUITEN, C. J. M.
On the measurement of structure-borne sound energy flow along pipes. Part 3: Analysis of systematic and random errors
[TPD-308.785/1] 12 p1900 N84-22377
VANSANT, J. H.
Thermal performance of the MFTF magnets
[DE83-016275] 03 p0454 N84-12988
VANSCHUPPEN, J. H.
On the weak finite stochastic realization problem
[MC-BW-184/83] 07 p1067 N84-16932
The weak stochastic realization problem for discrete-time counting processes
[MC-BW-191/83] 17 p2761 N84-27532
Invariance properties of the conditional independence relation
[MC-BW-193/83] 17 p2761 N84-27533
Optimal control of partially observable stochastic systems with an exponential-of-integral performance index
[MC-BW-194/83] 17 p2761 N84-27534
Overload control for a Stored Program Control (SPC) telephone exchange: An optimal stochastic control approach
[CWI-OS-R8404] 19 p3081 N84-29550
VANSLYKE, H.
Forced two-phase cooling of the TPC superconducting solenoid
[DE83-017749] 04 p0613 N84-14049
VANSLYKE, V.
Cryogenic testing of the TPC superconducting solenoid
[DE84-000528] 04 p0527 N84-13467
VANSOLDT, N. J.
Development of an instrumented riser joint 17 p2629 N84-26818
VANSOMERENGREVE, S. C.
A method for solving Boltzmann's equation in semiconductors by expansion in Legendre polynomials
[EUT-83-E-134] 10 p1590 N84-20420
VANSTEENBERGEN, A.
Storage ring design for X-ray lithography
[DE84-002859] 09 p1390 N84-19079
VANSTOKKOM, H. T. C.
An operational remote sensing methodology for the detection, inventory and environmental monitoring of waste disposal sites 03 p0398 N84-12601
VANSTRUM, M. D.
Hoop/column antenna RF verification model. Volume 2: Analysis and correlation
[NASA-CR-172413] 21 p3382 N84-31462
Hoop/column antenna: RF verification model. Volume 1: Test results
[NASA-CR-172412] 21 p3382 N84-31463
VANSTUYVENBERG, J. A.
Software flexibility ensured success of Dutch Astronomical Netherlands Satellite (ANS) and Infrared Astronomical Satellite (IRAS) satellites 05 p0725 N84-14758
VANT-HULL, L. L.
Atmospheric transmittance model for a solar beam propagating between a heliostat and a receiver
[DE84-007980] 18 p2953 N84-28716
VANTENDELOO, G.
High resolution electron microscopy studies of the early stages of decomposition in alloys and ceramics
[DE84-020802] 20 p3163 N84-30087
VANTHIEL, M.
Equations of state of PBX-9404, LX-07, and RX-26-AF detonation products at pressures above detonation pressure
[DE84-002465] 09 p1290 N84-18424
VANVALKENBURG, C. N.
Space telescope
[NASA-CR-170948] 06 p0938 N84-16097
VANVLIET, B. W.
Flight testing a digital flight control system: Issues and results 24 p3848 N84-34403
VANVLIET, C. M.
Study of 1/f noise in solids
[AD-A133856] 05 p0753 N84-14939
VANVLIET, E. C.
Evaluation of document retrievel ranking algorithms 11 p1711 N84-21154
VANVUUREEN, D. S.
Fischer-Tropsch synthesis in slurry reactors: Summary and analysis of the state of the art
[CSIR-CENG-432] 04 p0493 N84-13234
VANWIJK, R.
Summaries of doctorate theses 20 p3263 N84-30705
VANWIJK, W. R.
Modeling by means of networks
[IWECO-5177401-83-1] 12 p1804 N84-21761
VANWILLIGEN, H.
Investigation of the structure of photosynthetic reaction centers
[DE84-002886] 07 p1043 N84-16760
Investigation of the structure of photosynthetic reaction centers
[DE84-012475] 20 p3150 N84-30005

VANWINKLE, T. L.
Liquid and solid phase compositions in a partially frozen jP-5 fuel low in n-alkanes
[AD-A143390] 22 p3561 N84-32553
VANWOERT, M. L.
Satellite observations of fronts and frontal meanders in the Central North Pacific Ocean
11 p1671 N84-20903
VANWYK, G. N.
A formula for the sputtering yield of polycrystalline materials 06 p0816 N84-15313
VANZANDT, T. E.
Is VHF Fresnel reflectivity due to low frequency buoyancy waves? 17 p2684 N84-27089
Existence of a persistent background of turbulence
17 p2688 N84-27118
VANZUYLEN, P.
Visualization of patterns corresponding to the Fourier components of a vibration by interference holography
[TPD-1982-0-1] 02 p0222 N84-11453
VANZWET, W. R.
A Berry-Esseen bound for symmetric statistics
[MC-SW-95/83] 07 p1067 N84-16929
On estimating a parameter and its score function
[CWI-MS-R8402] 19 p3091 N84-29632
On the Edgeworth expansion for the logarithm of the likelihood ratio, part 2
[CWI-MS-R8401-PT-2] 19 p3094 N84-29652
VANZYL, J. M.
A stopping rule for a multi-person cooperative game
[TR-87] 08 p1222 N84-17981
Multi-Bayesian estimation theory
[CSIR-TWISK-296] 11 p1712 N84-21160
VARADAN, V. K.
Workshop on Research Techniques in Wave Propagation and Scattering
[AD-A130270] 01 p0063 N84-10415
Coherent electromagnetic wave propagation and scattering in random media
[AD-A133601] 06 p0825 N84-15381
VARADAN, V. V.
Workshop on Research Techniques in Wave Propagation and Scattering
[AD-A130270] 01 p0063 N84-10415
Coherent electromagnetic wave propagation and scattering in random media
[AD-A133601] 06 p0825 N84-15381
VARAIYA, P.
Resource contention, synchronization, and information structure in distributed systems
[AD-A143037] 21 p3518 N84-32287
VARAKIN, L. A.
The effect of pulse current on the electrical strength of high-voltage modulator tubes
[AD-A136489] 09 p1307 N84-18544
VARASI, M.
Application of sputtering technology to microwave integrated circuit fabrication 17 p2653 N84-26965
VARDI, A.
A new minimax algorithm
[NASA-CR-172382] 19 p3074 N84-29503
VARDI, M. Y.
On acyclic database decompositions
[AD-A135105] 08 p1209 N84-17887
Notions of dependency satisfaction
[AD-A135303] 08 p1211 N84-17902
On the equivalence of logical databases
[AD-A141541] 19 p3085 N84-29579
A new approach to database logic
[AD-A141130] 19 p3115 N84-29795
A note on lossless database decompositions
[AD-A141488] 19 p3116 N84-29797
VARDI, Y.
Maximum likelihood reconstruction in emission tomography with time-of-flight information: A limited study
[AD-A135061] 08 p1217 N84-17944
VARENKOV, A. N.
Solid-phase reaction of dispersed graphitized material with aluminium and nickel
[BLL-M-35633-(5828.4)] 22 p3551 N84-32482
VAREY, C. A.
The effects of marginal vitamin deficiency on mental performance
[IZF-1983-29] 18 p2914 N84-28483
VARGA, G. M., JR.
The effect of property changes on jet fuel producibility and cost 14 p2106 N84-23632
VARGO, J. D.
Developments in open tubular liquid chromatography
[DE84-010585] 18 p2812 N84-27853
VARMA, I. K.
Elastomer-modified phosphorus-containing imide resins
[NASA-CASE-ARC-11400-1] 05 p0657 N84-14322
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-3] 13 p1961 N84-22745
VARMA, R.
Electrode-active material for electrochemical batteries and method of preparation
[DE84-014508] 22 p3590 N84-32739
VARMAN, P. J.
On mapping cube graphs on VLSI array and tree architectures
[AD-A139306] 14 p2205 N84-24234
Modular matrix multiplication on a linear array
[AD-A139852] 15 p2400 N84-25404
Dynamic programming and transitive closure on linear pipelines
[AD-A143527] 22 p3640 N84-33079
VARNER, M. O.
Status of new aerothermodynamic analysis tool for high-temperature resistant transparencies
[AD-P003236] 17 p2598 N84-26649
VARNEY, A. M.
Expanded ignition effectiveness tests of selected igniter materials with Navy propellants
[AD-A134704] 08 p1125 N84-17312
Expanded ignition effectiveness tests of selected igniter materials with Navy propellants
13 p1949 N84-22671
Ignitibility studies of LOVA propellants
13 p1950 N84-22678
VAROPOULOS, N. T.
Annals of the Fourier Institute, volume 34, no. 1
[ISSN-0373-0956] 22 p3633 N84-33025
Annals of the Fourier Institute, volume 34, no. 2
[ISSN-0373-0956] 22 p3635 N84-33038
Brownian motion and random walks on manifolds
22 p3636 N84-33051
VARSHAVSKIY, A. Y.
Prerequisites for scientific-technical progress enumerated 13 p2065 N84-23395
VARSHAVSKIY, V. Y.
Composite materials with aluminum matrix reinforced with carbon fibers 24 p3872 N84-34537
VARTIAINEN, K.
Note on standardization of implant tests
[VTT-RR-189] 02 p0198 N84-11288
Determination of weld hydrogen content
[VTT-240] 15 p2296 N84-24777
Weld quality monitoring system
[VTT-RR-263] 19 p3033 N84-29240
VARUSHCHENKO, S. I.
New facts concerning dessication of Central Asia
18 p2856 N84-28136
VARY, A.
Ultrasonic velocity measurement using phase-slope cross-correlation methods
[NASA-TM-83794] 24 p3911 N84-34769
VASANTH, K. L.
User's guide for ERB-7 SEFDT. Volume 3: Quality control report for year-2
[NASA-CR-170618] 18 p2581 N84-26552
NIMBUS 7 Earth Radiation Budget (ERB) matrix user's guide. Volume 2: Tape specifications
[NASA-CR-170620] 21 p3464 N84-31961
Second plateau voltage in nickel-cadmium cells
23 p3737 N84-33684
VASERINA, K. N.
Optimization of the parameters of the arc suppressing system of high-voltage apparatuses with a thyristor attachment
[BLL-OA-TRANS-3139-(6196.3)]
08 p1149 N84-17476
VASHCHILOV, Y. Y.
Determining density of upper mantle rocks
11 p1670 N84-20898
VASHISHTA, P.
Melting of electrons on corrugated surfaces: Structural and dynamical properties in liquid and solid phases
[DE84-004023] 09 p1397 N84-19122
VASHKEVICH, N. P.
Structural approach to design of multiprocessor database management system
24 p3942 N84-34953
VASHKOVYAK, M. A.
Numerical-analytical method for computing movement of 12-hour artificial earth satellites in near-circular orbits
19 p2972 N84-28841
VASILAKIS, A. D.
Integrated gas-fired space heating/water heating system with electric air conditioning
[PB84-181999] 20 p3171 N84-30138
VASILAKIS, J. D.
Thermal and transformation stresses in hollow tubes during the quenching process
[AD-P002976] 14 p2201 N84-24212
VASILENKO, A. T.
Solving statics problems of thick-walled cylindrical shells with loose contact between layers
13 p1973 N84-22805
VASILEV, V. M.
Determination of the mixing potential in alloys from experimental data on short-range order
[BLL-M-35498-(5828.4)] 12 p1795 N84-21709
VASILEV, V. Y.
Passivation of amorphous alloys with various phosphorus contents 24 p3873 N84-34542
VASILEVSKIY, M. V.
Turbulent flow of aerosol in rotating channels of turbomachines 17 p2649 N84-26939
VASILYEV, A.
Status, future plans for Aeroflot's meteorological support 18 p2790 N84-27711
VASILYEV, A. B.
Study of emission spectrum of tea CO2 lasers with intracavity absorber 21 p3486 N84-32094
VASILYEV, A. N.
Electromagnetic excitation of sound in metals
21 p3484 N84-32082
VASILYEV, D. G.
Vibrations of and radiation from shell of revolution under hoop load 17 p2640 N84-26940
VASILYEV, N.
Legal expert expounds on new civil air code
14 p2093 N84-23553
VASILYEV, P. V.
Changes in cardiac output and orthostatic stability of cosmonauts 02 p0259 N84-11697
Practical applications of advances in aviation medicine
07 p1044 N84-16770
VASILYEV, V. P.
Infrared ellipsometer method for determination of parameters of thin epitaxial structures with buried layer: Specimens with dull inactive surface
21 p3379 N84-31446
VASILYEV, V. Y.
Anodic electrochemical processing of amorphous alloys 24 p3870 N84-34527
VASILYEV, Y. N.
Scattering of electromagnetic waves at edge of semiinfinite dielectric layer embedded in ideally conducting half-space 18 p2822 N84-27919
VASIN, B. L.
Television system for monitoring target position in laser thermonuclear fusion experiments
13 p1969 N84-22781
Heating and implosion of spherical targets irradiated by laser 20 p3288 N84-30879
Studies of amplifier module in Delfin Facility for heating thermonuclear plasma 20 p3289 N84-30881
VASSEUR
Pulsed current hard chromium plating
[CETIM-12-F-390] 21 p3369 N84-31372
VASSILAROS, M. G.
Experimental investigation of tearing-instability phenomena for structural materials
[DE83-900676] 01 p0097 N84-10629
J-integral tearing instability analysis for 8-inch diameter ASTM A106 steel pipe
[AD-A142589] 20 p3153 N84-30023
VASTOLA, K. S.
Suboptimal threshold detection in narrowband non-Gaussian noise
[AD-A129629] 01 p0071 N84-10484
VASUDEVAN, R.
Submerged shock response of a linearly elastic shell of revolution containing internal structure. User's manual for the ELSHOK code
[AD-A131282] 03 p0389 N84-12534
VASWANI, P. K. T.
The Demos multi-computer project: Hardware aspects
[NPL-DITC-36/84] 18 p2917 N84-28493
VATSA, V. N.
ALESEP: A computer program for the analysis of airfoil leading edge separation bubbles
[NASA-CR-172310] 13 p1926 N84-22537
VATSKY, A.
Automotive Stirling engine development program
[NASA-CR-174622] 21 p3521 N84-32305
VAUGHAN, D. E.
An algorithm for the estimation of limiting recognition range of image intensifier systems
[SRDE-7100] 15 p2389 N84-25333
VAUGHAN, D. K.
Large-scale numerical analysis of three-dimensional seismic waves
[AD-A144610] 24 p3920 N84-34814
VAUGHAN, J.
Advanced document retrieval system
[AD-A139385] 14 p2247 N84-24498

VAUGHAN, J. M.
Using an airborne CO2 CW laser for free stream airspeed and windshear measurements 24 p3850 N84-34417
Wind measurement with coherent laser radar at 10 microns 24 p3907 N84-34750

VAUGHAN, O. H., JR.
Nighttime observations of thunderstorm electrical activity from a high altitude airplane [NASA-TM-86455] 21 p3405 N84-31597
Mesoscale observations of lightning from Space Shuttle [NASA-TM-86451] 22 p3598 N84-32788
Nighttime observations of thunderstorm electrical activity from a high altitude airplane 24 p3926 N84-34853
Lightning observations from the Space Shuttle 24 p3928 N84-34862

VAUGHAN, W. W.
Natural environment design criteria for the space station program definition phase [NASA-TM-82585] 17 p2615 N84-26740
NASA/MSFC FY-84 Atmospheric Processes Research Review [NASA-CP-2329] 24 p3923 N84-34829

VAUGHN, B. F., JR.
Delineation of wetland boundaries using vegetation within the Altamaha River Basin of Georgia [AD-A142590] 20 p3228 N84-30515

VAUGHN, H. R.
Numerical solution for a spinning, nutating, fluid-filled cylinder [DE84-005878] 11 p1654 N84-20799

VAUGHN, R. L.
Solid state tetrachloroaluminate storage battery having a transition metal chloride cathode [AD-D011133] 22 p3618 N84-32924

VAURIO, J. K.
Development in reliability models and methods [DE83-014683] 03 p0385 N84-12511

VAVILOV, V. S.
Photoconductivity of alpha-Si-H in infrared range of spectrum 18 p2825 N84-27933

VAWTER, D. L.
Measurement of lung function using the magnetometer system [AD-A130841] 01 p0114 N84-10738

VAYSBERG, O. L.
Further analysis of plasma bursts in high-latitude boundary layer of earth 19 p2973 N84-28847

VAZ, A. M. Z.
The simplest solar microbursts flux and circular polarization at 22 GHz [INPE-2970-PRE/436] 07 p1092 N84-17104
Oscillation phenomena in the solar atmosphere and modulation by microwave radiation [INPE-2743-TDL/134] 10 p1596 N84-20463
A new class of solar burst with MM-wave emission but only at the highest frequency (90 GHz) [NASA-TM-87369] 24 p3992 N84-35264

VAZQUEZ, J. L.
The interfaces of one-dimensional flows in porous media [AD-A132862] 05 p0681 N84-14478

VDOVICHENKO, N. D.
Measurement of thickness of SiO/sub 2 insulation layers in silicon structures with dielectric insulation 18 p2824 N84-27929

VDOVIN, V. A.
Collective mode of evolution of plasma produced by optical breakdown in aerosol medium 17 p2631 N84-26828

VDOVIN, V. L.
Electromagnetic theory of an antenna for ICR heating of a plasma in Tokamaks [DE84-012988] 21 p3503 N84-32200

VEAL, G.
Highly accurate inflatable reflectors [AD-A143628] 23 p3825 N84-34255

VEAL, L. K.
The development of a geopressured energy management information and analysis system in support of research planning: Third year [PB84-174481] 16 p2511 N84-26116

VEATCH, M.
Power subsystem automation study [NASA-CR-170974] 08 p1180 N84-17686

VEATCH, M. H.
Logistics engineering design techniques for fault-tolerant avionics systems [AD-A137456] 10 p1430 N84-19349

VEDRENNE, G.
Telescope calibration for gamma spectroscopy with a new Ge(Li) diode configuration [INPE-2685-PRE/407] 04 p0619 N84-14083
Two probable optical flashes from gamma-ray bursters [NASA-TM-86126] 21 p3526 N84-32337
Three precise gamma-ray burst source locations [NASA-TM-86132] 22 p3680 N84-33332

VEENHUIZEN, S. D.
Airborne wind measurements at Cape Blanco, Oregon [DE84-013662] 21 p3448 N84-31880

VEERABHADRARAO, P.
Particulate erosion mechanisms [NASA-TM-83551] 05 p0652 N84-14289

VEERS, P. S.
General method for fatigue analysis of vertical axis wind turbine blades [DE84-002654] 06 p0861 N84-15613

VEES, C.
Development of a systems theoretical procedure for evaluation of the work organization of the cockpit crew of a civil transport airplane [NASA-TM-77359] 07 p1051 N84-16806

VEESER, L. R.
Single-mode fiber-optic sensor for high currents [DE83-014163] 02 p0295 N84-11933

VEGH, E.
A new derivation for the rough surface reflection coefficient and for the distribution of sea wave elevations [AD-A134774] 08 p1145 N84-17453

VEHNUIZEN, J. R.
Method for evaluating operator inputs to digital controllers [DE83-013521] 02 p0269 N84-11763

VEHOFF, H.
Random fatigue of steels: Sequence effects during the crack initiation phase [BMFT-FB-T-84-040] 16 p2466 N84-25804

VEILLETTE, S.
Automatic control of a visual physiology experiment, using MINC [AD-A140607] 17 p2745 N84-27431

VEIT, A.
Space telescope: Solar array primary development mechanism 09 p1294 N84-18458

VEIT, C. T.
The subjective function approach for analyzing systems [RAND/P-6893] 11 p1718 N84-21206

VELARDI, P.
A study of software failures and recovery in the MVS operating system [AD-A132681] 05 p0728 N84-14783
A statistical study of hardware related software errors in MVS [AD-A135726] 09 p1368 N84-18931

VELASCO, F. R. D.
Geography information systems project [INPE-2782-PRE/348] 08 p1239 N84-18100

VELAZQUEZ-SAAVEDRA, J. J.
Design, construction, and use of a high-resolution, two-component LDA 06 p0833 N84-15419

VELD, S. H.
Optical and mechanical properties of single mode cables at 1300 nm 11 p1726 N84-21258

VELDHUIJZEN, J. P.
Mechanical force and cartilage metabolism 23 p3808 N84-34147

VELDHUYZEN, W.
Summaries of doctorate theses 20 p3263 N84-30705

VELDMAN, A. E. P.
A local-relaxation method for solving convection-diffusion equations [NLR-MP-82030-U] 06 p0903 N84-15862
A quasi-simultaneous calculation method for strongly interacting viscous flow around an infinite swept wing [NLR-MP-83001-U] 17 p2601 N84-26672
A numerical view on strong viscous-inviscid interaction [NLR-MP-83049-U] 17 p2669 N84-27020

VELETSKIY, V. V.
Evaluation of energy characteristics of bipedal walking and running by model analysis 17 p2649 N84-26941

VELEZ, C. E.
The nest generation in satellite flight control systems 19 p3119 N84-29822

VELEZ, L. E.
MIL-STD-1750A verification testing [AD-P003555] 21 p3335 N84-31159

VELGHE, M. F.
New results of the ACO storage ring free electron laser [AD-A137785] 11 p1663 N84-20848
Anomalous laser induced bunch lengthening on the ACO storage ring free electron laser [AD-A138814] 13 p1995 N84-22949

VELICHKO, S. A.
Interaction of turbulent boundary layer and upward density jump at transsonic stream velocities 17 p2648 N84-26937

VELIKIKH, V. S.
Influence of laser hardening on mechanical properties of type 45 steel 24 p3873 N84-34546

VELLANTE, M.
Application of the maximum entropy method to the spectral analysis of geophysics data. Results of some preliminary tests on theoretical series [IFSI-82-1] 05 p0705 N84-14626

VELLI, Y. Y.
On the functional dependence of the freezing point of soils on the composition of water soluble salts in an interstitial solution [NRC/CNR-TT-2070] 06 p0877 N84-15707

VELLOSO, C. A. L.
Optimal digital control of a bank-to-turn missile [AD-A144043] 23 p3699 N84-33447

VELTRI, P.
Dissipative instabilities of magnetic neutral layers with velocity shear [IFSI-82-13] 03 p0451 N84-12965

VENABLE, D. D.
A radiative transfer model for remote sensing of laser induced fluorescence of phytoplankton in non-homogeneous turbid water [NASA-CR-173777] 19 p3063 N84-29432

VENABLES, J. D.
Environmental durability of aluminum adhesive joints protected with hydration inhibitors [AD-A135304] 09 p1288 N84-18412
Study of factors determining the radiation sensitivity of quartz crystal oscillators (A0189) 15 p2279 N84-24686

VENDIK, O. G.
Superconductive films in microwave microelectronics (survey) 22 p3569 N84-32604

VENEMA, M.
Electrostatic drift models in toroidal geometry [REPT-84-152] 17 p2767 N84-27569

VENERI, R.
The thermal design of L-SAT large telecommunication satellite 10 p1441 N84-19414

VENEZIA, K. J.
CONUS Loran-C error budget: Flight test [AD-A139871] 15 p2259 N84-24568

VENEZIANI, P.
Field studies in the structural society project: Mineralized lineaments [INPE-2876-NTE/205] 17 p2726 N84-27352

VENKATAPATHY, B.
Stochastic modeling of EDM with a view to off-line optimization [PB84-162296] 17 p2639 N84-26885

VENKATAPTHY, E.
Universal single level implicit algorithm for gasdynamics [NASA-CR-166531] 08 p1216 N84-17936

VENKATARAMAN, N. S.
A rapid estimation of near earth satellite lifetimes with quasi-dynamic atmospheric model with application to a proposed Brazilian satellite 19 p3119 N84-29823
Pitch control of a satellite using stabilizing flaps [INPE-3185-PRE/550] 21 p3349 N84-31246
Stochastic control of pitch motion of satellites using stabilizing flaps [INPE-3235-PRE/584] 24 p3859 N84-34458

VENKATARAMANI, K. S.
Liner environment effects study 11 p1613 N84-20556

VENKATESAN, C.
Aeroelastic effects in multi-rotor vehicles with application to a hybrid heavy lift system. Part 1: Formulation of equations of motion [NASA-CR-3822] 21 p3344 N84-31216

VENKATESAN, T. N. C.
Advances in GaAs bistable optical devices 14 p2233 N84-24394

VENKATPATHY, E.
A generalized solution technique for the parabolized Navier-Stokes equations 02 p0173 N84-11137

VENKATRAM, A.
EPA (Environmental Protection Agency) model development for stable plume impingement on elevated terrain obstacles [PB84-130491] 10 p1533 N84-20038

VENTO, D.
Problems in hail prevention 18 p2688 N84-28328

VENTRES, C. S.
Self-sustained oscillations of a shock wave interacting with a boundary layer on a supercritical airfoil [NASA-CR-175338] 07 p0945 N84-16131

VENTURINI, E. L.
Metallic microwave conductivity in shock-loaded rutile [DE84-002174] 08 p1235 N84-18075

VENURU, C. S.
Analysis of longwave radiation for the Earth-atmosphere system
[NASA-CR-173155] 08 p1143 N84-17437
VERBEEK, P. W.
Implementation of cellular-logic operators using 3 x 3 convolution and table look-up hardware
[NLR-MP-83039-U] 17 p2750 N84-27454
VERBER, C. M.
Luneburg lens and optical matrix algebra research
[NASA-CR-172276] 08 p1231 N84-16047
Integrated-optical approaches to matrix multiplication
12 p1906 N84-22418
Systolic triple-matrix product calculations
12 p1906 N84-22419
VERBITSKIY, T. Z.
Geoacoustic method for continuous monitoring of stressed-strained state of Earth's crust
17 p2706 N84-27231
VERBRUGGEN, M. L. C. E.
The peel strength of aramid aluminum laminate (ARALL)
[VTH-LR-397] 12 p1790 N84-21673
VERBUNT, F.
Dwarf novae through the outburst cycle
24 p3979 N84-35203
Constraints on stellar winds of cataclysmic variables derived from ultraviolet resonance lines
24 p3979 N84-35205
VERBURGT, P. W.
Underwater depth telemetry
[AD-D011054] 22 p3541 N84-32418
VERCHEVAL, J.
Summary of 25 years of spacecraft launching
[AERONOMICA-ACTA-A-34-1983]
16 p2455 N84-25744
A sample performance of the grille spectrometer aboard Spacelab
[AERONOMICA-ACTA-A-281-1984]
16 p2494 N84-26003
Trace constituants measurements deduced from spectrometric observations onboard Spacelab
[AERONOMICA-ACTA-A-288-1984]
20 p3239 N84-30565
VERDE, G.
On the stick-free longitudinal dynamic stability of a general aviation aircraft equipped with an all-movable horizontal tail
18 p2797 N84-27748
VERDERAIME, V.
Development of in situ stiffness properties for shuttle booster filament wound case
[NASA-TP-2377] 23 p3711 N84-33521
VERDERBER, R. R.
Comparison of technologies for new energy-efficient lamps
[DE83-015949] 03 p0369 N84-12401
VERDIER, J. E.
An introduction to the avionics integrity program
[AD-P003565] 21 p3336 N84-31170
VERDIYEV, M. G.
Equipment and results of test of cooler for electro-optical transducer
17 p2636 N84-26866
VERDON, J. M.
A linear aerodynamic analysis for unsteady transonic cascades
[NASA-CR-3833] 22 p3531 N84-32355
VERDU, S.
On fixed-interval minimum symbol error probability detection
[AD-A142465] 20 p3283 N84-30849
VERDUYN, W. D.
A testing machine for statistical analysis of small imperfect shells, part 1
[VTH-LR-357-PT-1] 10 p1518 N84-19938
VERGHESE, G. C.
Redundancy relations and robust failure detection
[NASA-CR-173252] 07 p1058 N84-16854
An algebraic approach to analysis and control of time-scales
[AD-A135115] 08 p1218 N84-17949
Optimally robust redundancy relations for failure detection in uncertain systems
[NASA-CR-173166] 09 p1377 N84-18997
Status report on asymptotic methods for the analysis, estimation, and control of stochastic dynamic systems
[AD-A140931] 18 p2925 N84-28547
VERHAAGEN, N. G.
An experimental investigation of the vortex flow over delta and double-delta wings at low speed
03 p0322 N84-12106
VERHAS, M.
Animal models of disuse osteoporosis
23 p3809 N84-34153
VERHEIJ, J. W.
On the measurement of structure-borne sound energy flow along pipes. Part 3: Analysis of systematic and random errors
[TPD-308.785/1] 12 p1900 N84-22377
VERHEIJ, T.
Medical aspects of survival: Training for aircrew
[AGARD-AG-283(FR)] 06 p0891 N84-15787
VERHOEF, W.
Hot spot reflectance measurements applied to green biomass estimation and crop growth monitoring
[NLR-MP-83037-U] 17 p2721 N84-27323
VERHOEVEN, J. D.
Tantalum-copper alloy and method for making
[DE84-011081] 20 p3155 N84-30037
VERKHOVODOV, P. A.
Nitration of intermetallide TiAl3
12 p1785 N84-21646
Use of concentrated solar energy to form slip coatings
24 p3874 N84-34552
VERLIJSDONK, A. P.
On the application of biphase coding in data communication systems
[EUT-82-E-132] 10 p1483 N84-19698
VERMA, G. R.
Stability of compressible wake and jet flows
[AD-A136541] 09 p1314 N84-18589
VERMA, V. K.
Studies in environmental geomorphology of Dudhatoli Ridge Garhwal, Himalay, India 23 p3770 N84-33902
VERMEULEN, J.
Selection of elements in process schemes on Cathode Ray Tube (CRT). A comparative study between four types of trackballs
[IZF-1984-4] 20 p3182 N84-30213
VERMISSEN, J. P. M.
Solid fuel combustion chamber
[VTH-LR-392] 12 p1803 N84-21756
VERNEY, S.
Measure of mass flow rate in gas-solid two phase fluids; application to pneumatic transport
21 p3403 N84-31590
VERNIN, J.
Simultaneous remote sensing of atmospheric turbulence by radar optical means: A comparison
23 p3775 N84-33932
VERNON, M. F.
Molecular-beam scattering
[DE83-016138] 01 p0144 N84-10951
VERNON, S. M.
Development of GaAs/Si and GaAs/Si monolithic structures for future space solar cells
19 p3046 N84-29327
VERNOT, E. H.
Toxic Hazards Research Unit report, 1983
[AD-A136170] 09 p1362 N84-18896
VERPRAT, M.
Implementation and performance of algorithms on a vector calculator
[SNIAS-832-111-104] 18 p2920 N84-28519
VERRILLI, M. J.
Preliminary study of thermomechanical fatigue of polycrystalline MAR-M 200
[NASA-TP-2280] 08 p1130 N84-17350
VERSAW, E. F.
Fuel system design concepts for broad property fuels
14 p2109 N84-23645
VERSTEGEN, M.
New concepts in aircrew training using computer generated imagery: A study report
[AD-P003451] 21 p3509 N84-32228
VERSTYNEN, H. A.
An investigation of the existence of a surface water layer on aircraft radomes during simulated flight in heavy precipitation
[NASA-TM-85813] 19 p3003 N84-29035
VERTER, F. A.
The luminosity function of galaxies in CO-12
13 p2071 N84-23424
VERTOPRAKHOV, V. V.
Industrial optodigital inspection system
24 p3942 N84-34955
VERTREES, J.
Engine product performance agreements and the future
[AD-P002821] 13 p2061 N84-23366
VERTUSHKIN, V. K.
Effect of certain geometrical parameters on metrological characteristics of multichamber black body
17 p2637 N84-26871
VERVILLE, G.
A study of the rechargeability of the Red Camel lead-acid battery between +20 deg C and -30 deg C
[AD-A137635] 11 p1646 N84-20764
Rapid electrolyte exchange procedures for 22 AH nickel-cadmium celgard cells
[AD-A142004] 20 p3177 N84-30178
VERWEST, B. J.
Intermediate-energy nuclear theory
[DE84-012971] 22 p3854 N84-33161
VERY, J. M.
Morphometric and biophysical study of bone tissue in immobilization-induced osteoporosis in the growing rat
23 p3809 N84-34152
VERZWYVELT, S. A.
Long life nickel electrodes for a nickel-hydrogen cell: Cycle life tests 23 p3739 N84-33698
VESECKY, J. F.
Mechanisms for SAR imaging of ocean surface phenomena: Theory and experiment
07 p0990 N84-16416
Synthetic aperture radar images of ocean waves, theories of imaging physics and experimental tests
17 p2714 N84-27275
VESELKOV, V. D.
Mechanization of assembly and welding operations in manufacture of ship hull structures
12 p1787 N84-21654
VESELOVSKII, V. I.
The electrochemical behaviour of titanium platinum alloys in anodic oxidation processes. 1: Kinetics and selectivity of the process of the combined formation of O2, H2S2O8 and O3 on the titanium-platinum alloy
[BLL-OA-TRANS-3093-(6196.3)]
08 p1128 N84-17336
VESSOT, R. F. C.
Atomic hydrogen for low temperature atomic hydrogen masers and in-vacuum dissociators for VLG-11 series masers
[NASA-CR-173506] 14 p2150 N84-23880
VEST, C. M.
INTFL-8401 computer tomography for interferomatic aerodynamic measurements
[AD-A139591] 14 p2101 N84-23611
VEST, G. M.
Metallization with generic metallo-organic inks
12 p1840 N84-21996
MOD silver metallization for photovoltaics
[NASA-CR-173975] 24 p3884 N84-34610
VEST, G. W.
Ion plating in corrosion protection
[DE84-001182] 06 p0807 N84-15256
VEST, K. F.
The development and application of an advanced computer-based shared-graphic workstation for video teleconferencing
[AD-A132583] 04 p0579 N84-13817
VEST, R. W.
Effects of particle size distribution in thick film conductors 12 p1839 N84-21991
MOD silver metallization for photovoltaics
[NASA-CR-173975] 24 p3884 N84-34610
VESTFAL, S. V.
Experimental study of immiscibility in metallurgical systems
[BLL-M-35553-(5828.4)] 17 p2621 N84-26775
VETESNIK, M.
Problems in the spectroscopy of cool carbon stars
15 p2422 N84-25549
Spectral analysis of Beta Pegasi
15 p2422 N84-25551
VETROV, V. Y.
Impact of laser radiation on optical properties of polymer liquid crystal in phase transition range
20 p3286 N84-30868
VETROVA, Y. G.
Oxidative enzyme activity in rat blood plasma and subcellular fraction of liver following flight aboard Cosmos-936 biosatellite 15 p2377 N84-25265
VETROVEC, J.
Optimized baffle and aperture placement in neutral beamlines
[DE84-003746] 09 p1388 N84-19062
VETTER, A.
Tapered-wiggler free-electron laser oscillator program
[AD-A144053] 23 p3755 N84-33799
VETTES, B.
Value of the lower body negative pressure test in aerospace medicine 11 p1701 N84-21096
Methods and major findings of cardiovascular exploration involving the human centrifuge
11 p1701 N84-21097
VEVELIS, J. B.
Holographic FLI for detection of defects
[AD-A142733] 20 p3189 N84-30258
VEVERKA, J.
Photometry of icy satellites: How important is multiple scattering in diluting shadows?
13 p2073 N84-23438

Comparison of Hapke's photometric theory with Voyager observations of Europa, Enceladus, Rhea and Mimas
13 p2074 N84-23439
Participation in the Mars data analysis program: Global and regional studies of wind-indicators on the surface of Mars
[NASA-CR-173982] 24 p3992 N84-35261
VEYO, S. E.
High-efficiency dual-stroke compressor for heat pumps
[DE84-005813] 11 p1665 N84-20865
Advanced electric heat pump dual-stroke compressor and system development
[DE84-007916] 20 p3185 N84-30239
VEZZA, M.
An algorithm for the prediction of unsteady potential flow about an arbitrary aerofoil
[GU-AERO-8306] 15 p2257 N84-24553
VIALET, C.
Preparation of standard electrical testability provisions for space equipment. Volume 1: Executive summary
[DM.51/CV/JP/327.83-VOL-1]
08 p1153 N84-17507
Preparation of standard electrical provisions for space equipments
[DM.51/CV/JP/327.83-VOL-2]
08 p1153 N84-17508
VICKOVIC, I.
A twisted P-C double bond: Synthesis and structure of a (Methylene)phosphine Fe-CO-4 complex
[AD-A141502] 19 p2984 N84-28907
VICKREY, J. F.
Evidence of East-West structure in large-scale F-region plasma enhancements in the auroral zone
[AD-A131263] 01 p0106 N84-10689
High-latitude and equatorial research support for predicting high-altitude nuclear effects
[AD-A131431] 02 p0249 N84-11630
Phenomenology of structured plasma in the ionosphere
[AD-A136396] 09 p1345 N84-18784
High-latitude ionospheric irregularities
[AD-A142648] 20 p3241 N84-30573
VICKROY, J. G., JR.
Guide to transform software for nonlinear normal-mode initialization of the NCAR community forecast model
[PB84-119130] 09 p1350 N84-18820
Normal modes of the NCAR (National Center for Atmospheric Research) Community Forecast Model (CFM)
[PB84-191220] 22 p3642 N84-33094
VICROY, D. D.
A comparison of two position estimate algorithms that use ILS localizer and DME information. Simulation and flight test results
[NASA-TP-2281] 08 p1102 N84-17165
User's manual for a fuel-conservative descent planning algorithm implemented on a small programmable calculator
[NASA-TM-86275] 20 p3129 N84-29871
VICTOR, G. A.
Computer simulation of construction operations
05 p0718 N84-14704
VIDAL-MADJAR, D.
Radar investigation of soils and sea (ERASME): C band helicopter-borne scatterometer. Application to soil moisture measurement 03 p0396 N84-12588
Evaporation from a bare soil evaluated from a soil water transfer model using remotely sensed surface soil moisture data
[CRPE-NT-125] 13 p2006 N84-23016
VIDALI, P.
The use of matrix transducers in medium thickness welding inspection
[CISE-2075] 06 p0855 N84-15572
VIDENSKII, I. V.
Nickel diffusion along single inter-phase boundaries
[BLL-M-35109-(5828.4)] 01 p0040 N84-10254
VIDOCZY, T.
Some aspects of mathematical and chemical modeling of complex chemical processes
[NASA-TM-77055] 07 p0969 N84-16279
VIDOS, P.
Flow generation in a novel centrifugal diffuser test device
[AD-A136874] 10 p1492 N84-19754
VIDULICH, M. D.
Processing phenomena and the dissociation between subjective and objective workload measures
[AD-A134050] 05 p0715 N84-14686
VIDYASAGAR, M.
An algebraic approach to analysis and control of time-scales
[AD-A135115] 08 p1218 N84-17949
VIEHBOECK, F.
Surface analysis by particle beams
06 p0814 N84-15301
VIEHOFF, T.
Determination of sea surface temperatures from high resolution infrared satellite measurements
[REPT-115] 12 p1837 N84-21975
VIEHWEGER, G.
The cryogenic wind tunnel Cologne
14 p2095 N84-23568
VIEILLEFOND, H.
Methods and major findings of cardiovascular exploration involving the human centrifuge
11 p1701 N84-21097
VIEIRA, B. M.
Chemical analysis of ions in rain water in natural regions: Correlations with aerosols in the atmosphere
[INPE-2858-PRE/395] 23 p3792 N84-34052
VIEIRA, R.
Energy and peak power saved by passively cooled residences 16 p2513 N84-26130
VIELLEFOND, H.
Value of the lower body negative pressure test in aerospace medicine 11 p1701 N84-21096
VIETS, D.
CTX: A system for computer-aided indexing
[BMFT-FB-ID-83-006] 02 p0303 N84-11986
VIG, J. R.
Method of minimizing the aging rate of an oscillator
[AD-D011049] 19 p3018 N84-29135
VIGDOROVICH, V. N.
Variation of carrier concentration caused by band structure reconstruction in tellurium and tin-doped Al(x)Ga(1-x)As solid solutions 17 p2636 N84-26861
VIGERON, F. R.
Flight test of a synthetic aperture radar antenna using STEP 08 p1113 N84-17237
VIGGIANO, A. A.
Reactions of negative ions
[AD-A143793] 23 p3714 N84-33541
VIGNERON, Y.
A vectorized finite element method for computation of transonic tridimensional potential flows
[SNIAS-832-111-105] 15 p2257 N84-24555
VIGNES, E.
Radiation pressure induced optical bistability
14 p2241 N84-24457
VIGROUX, L.
Temperature and elemental abundances in the Abell cluster A 576 derived from X-ray observations
[NASA-TM-85103] 24 p3987 N84-35238
VIGTLIN, G.
Subnanosecond-rise-time, low-impedance pulse generator
[DE83-013793] 01 p0074 N84-10485
VIGUE, J. P.
Analytic automorphisms of a bounded Reinhardt domain in a complex Banach space with base
22 p3636 N84-33044
VIGUIE, J. C.
Research and development on high temperature water vapor electrolysis 11 p1739 N84-21348
VIJAYAN, K.
Mechanical and physical properties of poly(vinylidene fluoride) at high pressures and temperatures
[AD-A137842] 11 p1637 N84-20705
VIJAYKUMAR, N. L.
A fast interpolator with slope specification
[INPE-3058-PRE/478] 17 p2751 N84-27462
The surface generation using weighted splines
[INPE-3160-PRE/534] 21 p3470 N84-31994
VIKTOROV, A. N.
Sanitary and hygienic features of cabin environment in Salyut-7 orbital station 15 p2375 N84-25253
VILA, F.
Development of a slotted waveguide array panel for SAR antenna: Electrical design and testing
[IEC-MO-80/11] 23 p3732 N84-33656
VILAR, E.
A system to measure LOS atmospheric transmittance at 19 GHz 15 p2324 N84-24951
VILASAGAR, S.
Synthesis and characterization of some thermotropic nematic and cholesteric polymers
06 p0808 N84-15262
VILASBOAS, J. W. S.
The October 1983 recurrence of the outburst of the Orion water maser source and its past history
[INPE-2985-PRE/444] 07 p1088 N84-17076
Meteor showers effects in the low terrestrial ionosphere detected at VLF ionosonde and long distance propagation paths
[INPE-3242-PRE/588] 24 p3990 N84-35246
VILASSAKDANONT, A.
Effect of temperature on some of the mechanical properties of Cu-10Ni-6Sn spinodal alloy
[DE84-004432] 10 p1461 N84-19538
VILCANS, J.
NAVSTAR GPS simulation and analysis program
[PB84-134402] 10 p1427 N84-19332
Differential NAVSTAR GPS (Global Positioning System) design concept for Harbor/Harbor entrance marine navigation
[AD-A141665] 19 p2961 N84-28769
VILHU, O.
Circular polarimetry of the magnetic compact binary AM Herculis 09 p1414 N84-19251
Magnetic activity in lower main sequence stars
24 p3975 N84-35175
VILJA, J.
Preliminary study for the modeling of an artificial icing cloud
[AD-A135717] 09 p1349 N84-18813
VILJOEN, P. E.
Surface segration and diffusion investigations by means of AES 06 p0816 N84-15319
VILLA, M.
Borophosphate vitreous electrolytes: The relationship between local order, thermal stability and ion transport
11 p1743 N84-21372
VILLAGRA, H. M. I.
Aspects of the Brazil current system according to SMS-2, NOAA-6, and Tiros-N satellites for 1979 to 1980
[INPE-2975-RPE/450] 22 p3627 N84-32982
VILLALOBOS, M. A.
Estimation of posterior probabilities using multivariate smoothing splines and generalized cross-validation
[AD-A134518] 07 p1062 N84-16884
VILLANTE, U.
Application of the maximum entropy method to the spectral analysis of geophysics data. Results of some preliminary tests on theoretical series
[IFSI-82-1] 05 p0705 N84-14626
Evidence for long period Alfven waves in the inner solar system
[IFSI-84-9] 18 p2953 N84-28719
VILLANUCCI, D. P.
Experiments on interaction of keV particle beams with the ionosphere
[AD-A143277] 22 p3623 N84-32957
VILLARREAL, S.
Method and apparatus for receiving and tracking phase modulated signals
[NASA-CASE-MSC-16170-2] 18 p2828 N84-27952
VILLEFRANCHE, P.
Orbital propulsion module system configuration study. Volume 1: Executive summary
[S/DT/YA-25-030-VOL-1] 08 p1120 N84-17262
VILLHARD, V. J.
Turbofan engine technology evaluation system, user's guide
[AD-A140781] 17 p2609 N84-26704
VILLORESI, G.
Interplanetary perturbations associated with type 4 solar flares
[IFSI-82-6] 03 p0475 N84-13129
The behavior of the cosmic ray equatorial anisotropy inside fast solar wind streams ejected by coronal holes
[IFSI-82-16] 03 p0475 N84-13130
Cosmic ray NM-64 neutron monitor data-9, January-December 1980, Rome, Italy
[IFSI-83-11] 18 p2954 N84-28722
Cosmic ray NM-64 neutron monitor data-10, January-December 1981, Rome, Italy
[IFSI-83-12] 18 p2954 N84-28723
Cosmic ray NM-64 neutron monitor data-9, January-December 1982, Rome, Italy
[IFSI-83-13] 18 p2954 N84-28724
VILLUMSEN, J. V.
Simulations of galaxy mergers
03 p0464 N84-13054
VILMANN, C. R.
A dynamic analysis of rotary combustion engine seals
[NASA-TM-83536] 05 p0688 N84-14519
VILNROTTER, V. A.
Background sources in optical communications
[NASA-CR-173457] 12 p1907 N84-22422
Synchronization tracking in pulse position modulation receiver
[NASA-CASE-NPO-16256-1] 22 p3572 N84-32620
VILSMEIER, J.
Experimental investigation of delaminations in carbon fibre composite 01 p0033 N84-10209
Experimental investigation of delaminations in carbon fiber composite
[MBB-FE-214/S/PUB/107] 16 p2562 N84-26434
VILYAMS, O. S.
Improvement of heat treatment of tubes of steel 15Kh5M
[BLL-M-35545-(5828.4)] 17 p2621 N84-26774
VINAREK, J.
Projective monads and extensions of functors
[MC-ZW-195/83] 07 p1065 N84-16909

Hereditary subdirect irreducibility in graphs
[MC-ZW-193/83] 13 p2038 N84-23221

VINAS, A. F.
Spectral analysis of magnetohydrodynamic fluctuations near interplanetary schocks
[NASA-TM-85119] 03 p0462 N84-13044
Large amplitude MHD waves upstream of the Jovian bow shock: Reinterpretation
[NASA-TM-86131] 21 p3525 N84-32333

VINAS, O.
Mapping land use in Catalonia (Spain)
03 p0400 N84-12613

VINCENT, D. G.
Dynamics and energetics of the South Pacific convergence zone during FGGE SOP-1
24 p3926 N84-34850

VINCENT, R. A.
Is VHF Fresnel reflectivity due to low frequency buoyancy waves?
17 p2684 N84-27089

VINNIK, L. P.
Nature of 640-KM seismic boundary
17 p2703 N84-27216

VINNIKOV, N. M.
Measurement of thickness of SiO/sub 2 insulation layers in silicon structures with dielectric insulation
18 p2824 N84-27929

VINNINS, M.
Procedures for static and constant-rate tests on a Single-Degree-of-Freedom (SDF) strapdown gyroscope
[AD-A136632] 09 p1318 N84-18609

VINNINS, M. F.
Performance evaluation of a Magnavox GPS (Global Positioning System) Z-set
[AD-A136569] 13 p1929 N84-22547

VINOGRADOV, S. S.
Cross section for absorption of partly shielded dielectric sphere
17 p2635 N84-26858

VINOGRADOV, V. V.
High-resistance measuring standards of electrical resistance
18 p2826 N84-27939

VINOGRADOVA, O. V.
Functional status of operators and its systemic and technical determinants
18 p2895 N84-28369

VINSON, J. R.
On the analysis of thick walled composite material cylindrical shells
15 p2311 N84-24867

VINSON, W. D.
ICAM (Integrated Computer Aided Manufacturing) conceptual design for computer-integrated manufacturing. Volume 4, part 5, task D: Quality assurance/quality, control/technical requirement/tasks, quality assurance modeling and analysis, architecture for product assurance, (TTD)
[AD-A144691] 24 p3948 N84-34999

VINT, A.
Engine-airframe interference effects
03 p0319 N84-12086

VINZ, F. L.
Computer vision for real-time orbital operations. Center directors discretionary fund
[NASA-TM-86457] 22 p3640 N84-33076

VIODE, J. P.
Tectonic deformation of the Andes and the configuration of the subducted slab in central Peru: Results from a micro-seismic experiment
[NASA-CR-175445] 11 p1681 N84-20972

VIOLET, C. E.
Metallurgical explanation of double magnetic transitions and allied phenomena in AuFe alloys
[DE84-002024] 05 p0657 N84-14317

VIOLETTE, E. J.
Urban millimeter wave propagation studies
[AD-A134465] 07 p0993 N84-16439
A diagnostic probe to investigate propagation at millimeter wavelengths
[PB84-104223] 08 p1148 N84-17473

VIOTTI, R.
The ultraviolet spectrum of stars having optical Fe 2 emission lines
24 p3977 N84-35188
A new outburst of Z Andromedae
24 p3979 N84-35209

VIRA, N. R.
Aerodynamics of sounding rockets at supersonic speeds
16 p2455 N84-25743

VIRBAITIS, R. I.
The effect of pressure on complex heat exchange in a channel with an electric arc
[BLL-OA-TRANS-3090-(6196.3)]
09 p1311 N84-18569

VIRCHIS, V. J.
Prediction of dynamic effects due to vehicles crossing military bridges
[ISVR-TR-120] 03 p0391 N84-12548

VIRGIL, J. C.
Institutional supporting research highlights in physics and mathematics, fiscal year 1983
[DE84-011025] 20 p3284 N84-30655

VIRIYAYUTHAKORN, M.
Finite element simulation of viscoelastic flows
02 p0217 N84-11423

VIRK, G. S.
On sensitivity, compensation and the approach to the asymptotes in multivariable root-loci
[RR-222] 03 p0426 N84-12795

VIRKAR, A. V.
Electrolytic degradation of lithia-stabilized polycrystalline beta-alumina
[DE84-008668] 20 p3311 N84-31027

VIRMANI, Y. P.
Time-to-corrosion of reinforcing steel in concrete slabs. Volume 5: Calcium nitrite admixture or epoxy-coated reinforcing bars as corrosion protection systems
[PB84-195239] 22 p3565 N84-32578

VIS, F. C.
Optmization of breakwater lengths in relation to wave penetration
[PUBL-312] 15 p2360 N84-25160

VISBAL, M.
Numerical simulation of shock/turbulent boundary layer interactions over 2-D compression corners
17 p2666 N84-27000

VISHWANATH, P. S.
Advancement of developmental technology for pulse combustion applications
[PB84-215268] 22 p3564 N84-32576

VISSER, S.
High alumina cement concrete
[CSIR-BRR-573] 04 p0505 N84-13311

VISSERS, D. R.
Electrochemical characteristics of lithium-silicon alloy electrodes for high-temperature-battery applications
[DE83-014343] 01 p0039 N84-10244
Resistance characterization of nickel sulfide electrodes in LiCl-containing molten salt electrolytes
[DE84-006734] 13 p1987 N84-22898
Electrochemical performance of porous nickel sulfide electrodes
[DE84-009586] 22 p3590 N84-32741

VISWANATH, P. R.
An experimental documentation of trailing-edge flows at high Reynolds number
[NASA-TM-84375] 01 p0076 N84-10498

VISWANATHAN, V. K.
Intelligent optical design program
[DE84-010071] 20 p3279 N84-30813

VISWANATHAN, V. R.
Multisensor speech input
[AD-A140894] 17 p2654 N84-26974
Objective speech quality evaluation of real-time speech coders
[AD-A141194] 18 p2829 N84-27959

VITANYI, P. M. B.
On the simulation of many storage heads by a single one
[MC-IW-226/83] 07 p1053 N84-16818
On the simulation of many storage heads by one
[MC-IW-228/83] 07 p1053 N84-16819
An N to the 1.618th power lower bound on the time to simulate one queue or two pushdown stores by one tape
[MC-IW-245/83] 13 p2030 N84-23161
Big omega versus the wild functions
[MC-IW-239/83] 13 p2035 N84-23200
Distributed elections in an Archimedean ring of processors (preliminary version)
[MC-IW-243/83] 13 p2035 N84-23202
The simple roots of real-time computation hierarchies (preliminary version)
[MC-IW-244/83] 13 p2035 N84-23203
On two-tape real time computation and queues
[MC-IW-246/83] 17 p2750 N84-27455

VITAYA-UDOM, K. P.
Concrete behavior under dynamic tensile-compressive load
[AD-A141735] 19 p3036 N84-29255

VITE, M.
Image dissector tube star trackers performance: Advantages and drawbacks as compared to those of charge transfer device star trackers
15 p2266 N84-24606

VITEK, E. J.
Radiation upset threshold detector apparatus
[AD-D011030] 19 p3111 N84-29769

VITEK, J. M.
Tensile behavior of three commercial ferritic steels after low-temperature irradiation
[DE83-014044] 02 p0195 N84-11264
Microstructure of 9 Cr-1 MoVNb steel irradiated to 40 dpa at elevated temperatures in HFIR
[DE84-000339] 04 p0501 N84-13285
Effect of specimen size and nickel content on the impact properties of 12 Cr-1 MoVW ferritic steel
[DE84-003270] 08 p1134 N84-17377

VITORELLI, I.
Irrigated lands: Monitoring by remote sensing
[NASA-CR-173945] 23 p3763 N84-33854

VITORELLO, I.
Multiseasonal variables in digital image enhancements for geological applications
[E84-10145] 16 p2508 N84-26093
Methodological approach in lithological discrimination by digital processing: A case study in the Serra do Ramalho, state of Bahia
[INPE-3108-PRE/507] 16 p2509 N84-26101

VITTAL, B. V. R.
Solution of particulated viscous flow over a two dimensional cylinder and in a radial inflow turbine
10 p1496 N84-19782

VIVIAN, H. C.
Performance of the Lester battery charger in electric vehicles
[NASA-CR-173726] 18 p2833 N84-27982
Hybrid vehicle assessment. Phase 1: Petroleum savings analysis
[NASA-CR-173741] 18 p2947 N84-28682

VIVIAND, H.
Pseudo-unsteady systems for steady inviscid flows
[ONERA-P-1983-4] 16 p2487 N84-25955

VIZINE-GOETZ, D.
A computer algorithm for correcting spelling and typographical errors in subject headings
16 p2566 N84-26483

VLADILO, G.
Use of high resolution IUE spectra of MG 2 in cool stars to probe the local interstellar medium
24 p3973 N84-35156

VLADIMIROFF, T.
Molecular dynamics of propellant gases
13 p1949 N84-22674

VLADIMIROV, L. P.
Determination of thermodynamic characteristics of the barium dissolution process in liquid iron
[BLL-M-35634-(5828.4)] 22 p3551 N84-32481

VLADIMIROV, S. A.
Diffusional anomalies in deformed metals
[BLL-M-35490-(5828.4)] 12 p1795 N84-21708

VLADIMIROV, V.
Details of cosmonauts' installation of solar batteries
12 p1774 N84-21572

VLAHINOS, A.
Nonlinear elastic stability analysis of plane frames
22 p3607 N84-32853

VLAMINCK, R. R.
Investigation of the effect of blade sweep on rotor vibratory loads
[NASA-CR-166526] 09 p1256 N84-18196

VLASENKO, L. S.
Detecting optical polarization of nuclei in semiconductors with super-conducting quantum interferometer
20 p3286 N84-30865

VLASKOV, V. A.
Ion kinetics, minor neutral and excited components in D-region with high level of ionization
19 p2973 N84-28848

VLASOVA, T. F.
Free amino acids of blood before and after short-term spaceflights
02 p0260 N84-11702
Effect of hypokinesia on amino acid metabolism in rats on diets differing in calcium and phosphorus content
02 p0261 N84-11707

VLEGHERT, J. P. K.
Trending of cruise drag
[NLR-TR-82078-U] 09 p1256 N84-18200

VLZHIYEVSKAYA, O. V.
Approach to solving problem of acoustic wave diffraction by elastic shell
13 p1973 N84-22804

VO, Q. D.
Simulations for full unit-memory and partial unit-memory convolutional codes with real-time minimal-byte-error probability decoding algorithm
10 p1474 N84-19629
Signal-to-noise ratio and combiner weight estimation for symbol stream combining
10 p1474 N84-19630
Performance simulation for unit-memory convolutional codes with byte-oriented Viterbi decoding algorithm
22 p3573 N84-32630

VODOLZHENKO, A. V.
Dielectric-grating band-pass filters
21 p3379 N84-31442

VODROV, V. A.
Methods and means of improving the working capability of flight personnel
11 p1694 N84-21051

VODYAKHO, A. I.
High-performance specialized processors for calculation of elementary and special functions
24 p3941 N84-34950
VOECKS, G. E.
ECUT: Energy Conversion and Utilization Technologies program. Heterogeneous catalysis modeling program concept
[NASA-CR-173463] 12 p1842 N84-22012
VOEGELE, M. D.
Ambient temperature testing of the G-tunnel heated block
[DE84-009927] 20 p3298 N84-30945
VOELCKER, H. B.
Solid modelling: History, status and current research directions 12 p1870 N84-22187
Boolean operations in solid modelling: Boundary evaluation and merging algorithms
[TM-26] 23 p3818 N84-34207
VOELKER, F.
Generation of ultra-short laser pulses in the visible and near infrared for a spaceborne laser ranging transmitter
24 p3906 N84-34740
VOELZ, D. G.
Design and implementation of a preprocessing system for a sodium lidar
[NASA-CR-174595] 03 p0378 N84-12462
VOGEL, C.
Investigation of electrochromic effects for display application
[BMFT-FB-T-83-212] 10 p1457 N84-19519
VOGEL, F.
The introduction of clampbands in spacecraft structural mathematical models
[EMSB-12/83] 12 p1782 N84-21627
VOGEL, H. F.
Study on diffusion of the vertical magnetic field in the toroidal stabilizing shell of the ZT-40M reversed-field-pinch device
[DE83-016353] 04 p0610 N84-14023
Some considerations on silicone oil in high-current and energy-disconnecting mechanisms
[DE84-011021] 20 p3180 N84-30203
VOGEL, J. A.
Effects of acute cold exposure on submaximal endurance performance
[AD-A132581] 05 p0712 N84-14665
VOGEL, J. L.
Sub-cloud layer kinematics and convective rainfall in central Illinois
[AD-A134483] 07 p1039 N84-16741
VOGEL, M. A.
Conceptual design of the high-flux VTA-2 test assembly for FMIT
[DE83-017022] 03 p0446 N84-12935
VOGEL, P.
Emission FTIR analyses of thin microscopic patches of jet fuel residue deposited on heated metal surface
[NASA-CR-168331] 08 p1139 N84-17410
VOGEL, S.
Influence of main design parameters on flutter behaviour for aircraft configurations with heavy concentrated masses 02 p0170 N84-11122
VOGEL, S. N.
Millimeter wavelength aperture synthesis maps of the star-forming region W58 10 p1595 N84-20455
VOGEL, T. A.
Chemical evolution of a high-level magma system: The Black Mountain Volcanic Center, Southern Nevada
[DE84-013321] 20 p3243 N84-30587
VOGEL, T. I.
A free-boundary problem arising from a galvanizing process
[AD-A132853] 05 p0655 N84-14304
VOGEL, U.
Electrochemical-treeing (ECT) structures in high-voltage cable insulation
[BMFT-FB-T-83-087] 02 p0215 N84-11413
VOGEL, W. M.
Pore-forming fillers for molten carbonate matrices
[DE84-014509] 23 p3715 N84-33551
VOGELAAR, H. L. J.
Description and validation of the two dimensional test setup for multiple airfoils in the pressurized wind tunnel HST
[NLR-TR-83031-U] 20 p3132 N84-29892
VOGELESANG, L. B.
Aramid Aluminum Laminate (ARALL): A material for the next generation of aircraft, a state of the art
[VTH-LR-400] 12 p1790 N84-21674
VOGELIUS, M.
Feedback and adaptive finite element solution of one-dimensional boundary value problems
[AD-A136018] 09 p1378 N84-19000
Norm estimates for a maximal right inverse of the divergence operator in spaces of piecewise polynomials
[AD-A136889] 10 p1573 N84-20309
Conforming finite element methods for incompressible and nearly incompressible continua
[AD-A141117] 19 p3023 N84-29171
VOGL, O.
Ultraviolet light absorbers having 2 different chromophors in the same molecule
[DE84-011279] 20 p3150 N84-30000
Stabilized unsaturated polyesters
[NASA-CASE-NPO-16103-1] 22 p3558 N84-32530
VOGLER, L. E.
Further investigations of the multiple knife-edge attenuation function
[PB83-245043] 04 p0523 N84-13442
VOGT, A.
Development of a 60 cm photographic Zenith telescope, and construction of a prototype
[BMFT-FB-T-84-122] 23 p3826 N84-34263
VOGT, F. H.
An interval logic for higher-level temporal reasoning
[NASA-CR-172262] 07 p1053 N84-16821
VOGT, H. L.
A mechanical model of the human body and its application 17 p2744 N84-27421
VOGT, R.
Lifetime prediction for electronic components and circuits using the phase noise measuring method
[FB-111] 10 p1487 N84-19723
VOGT, R. E.
Research in particles and fields
[NASA-CR-173928] 23 p3845 N84-34392
VOGTLI, K.
Corrosion of aluminium caused by alternating current
[BLL-ERA-TRANS-2920] 17 p2621 N84-26776
VOHL, P.
Electronic properties of grain boundaries in GaAs: A study of oriented bicrystals prepared by epitaxial lateral overgrowth
[AD-A144358] 24 p3967 N84-35118
VOIGT, B.
Reliability of electrical machines and drives, part 1
[BMFT-FB-T-83-163-PT-1] 07 p0999 N84-16480
Reliability of electrical machines and drives, part 2
[BMFT-FB-T-83-164-PT-2] 07 p0999 N84-16481
VOIGT, C.
Towards a cycle without loss: Cobalt in the aircraft industry 23 p3702 N84-33469
VOIGT, K.
Chemical vapour deposition coating of hard metals with special reference to boron and boron compounds
[BLL-RISLEY-TRANS-4877] 12 p1795 N84-21705
VOIGT, R. C.
Design, development and use of the finite element machine
[NASA-CR-172250] 03 p0424 N84-12777
VOIGT, R. G.
A methodology for exploiting parallelism in the finite element process
[NASA-CR-172219] 01 p0127 N84-10831
Applications of spectral methods to turbulent magnetofluids in space and fusion research
[NASA-CR-173665] 17 p2757 N84-27505
VOIGTLAENDER, O.
Precision forging of front fan blades, abridged version
[BMFT-FB-T-83-205] 10 p1472 N84-19613
Development of an isothermal forming technique for the production of precision parts made from titanium alloys
[BMFT-FB-T-83-220] 10 p1472 N84-19616
VOISINET, R. L. P.
High altitude aerodynamic tests with simulated heat-shield outgassing
[AD-A132078] 04 p0492 N84-13227
VOLAIT, M.
NONAX-TRANAX-CASTOR 2D
[CETIM-100940] 21 p3424 N84-31721
VOLAND, R. T.
Stability, vibration and passive damping of partially restrained imperfect columns
[NASA-TM-85697] 04 p0548 N84-13608
VOLCHEK, O. D.
Determination of a subjects condition according to pitch of the vocal vowel 'A' 02 p0261 N84-11714
VOLCHOK, Z. G.
Mechanical properties of components made from powders received by processing low-grade porous titanium 23 p3707 N84-33500
VOLF, P.
Selections on CSSR electronics, computer technology: MHB8804 integrated circuit 23 p3813 N84-34179
VOLIN, R. H.
Technical information support for survivability
10 p1508 N84-19868
VOLK, G.
Performance of the intense pulsed neutron source accelerator system
[DE84-003607] 07 p1072 N84-16966
VOLK, T.
A study of air-pollution mixing heights and atmospheric turbulence over New York City, data report
[DE83-010624] 02 p0244 N84-11596
VOLK, W.
The numerical treatment of linear integrodifferential equations
[HMI-B-381] 15 p2399 N84-25398
Special methods for spline functions associated to uniform grids
[HMI-B-381] 15 p2399 N84-25399
VOLKENSHTEYN, N. V.
Critical current of the dispersion superconducting phase, obtained during aging
[AD-A136024] 09 p1396 N84-19118
VOLKERT, H.
Comprehensive analyses of variances of meteorological fields over Southern Bavaria
[DFVLR-FB-83-31] 10 p1541 N84-20097
VOLKIND, N. Y.
Influence of exam stress on cardiac function of students differing in level of physical activity
15 p2378 N84-25268
VOLKMER, K.
Module utilization committee
[NASA-CR-173898] 22 p3617 N84-32920
Stand-alone flat-plate photovoltaic power systems: System sizing and life-cycle costing methodology for Federal agencies
[NASA-CR-173903] 22 p3618 N84-32922
VOLKONSKIY, V. B.
Phase light range finder 21 p3380 N84-31447
VOLKOV, I.
Improvements in work of aircraft repair plant no. 402
24 p3851 N84-34425
VOLKOV, P.
Computerized hydrologic research complex 'Gidrozond' 18 p2856 N84-28139
VOLKOV, S. N.
Small-angle method in study of single and multiple scattering 20 p3225 N84-30492
VOLKOV, V. I.
Optical bistability and hysteresis under phase conjugation in CdS crystal 14 p2240 N84-24450
VOLKOV, V. M.
Functional electronic amplifiers with broad dynamic band
[AD-A133774] 05 p0675 N84-14433
VOLKOV, V. V.
Noncubic magnetic anisotropy in YSmLuCaFeGe garnet films 20 p3287 N84-30869
VOLKOVA, L. P.
Energy metalbolism enzymes in simulation of some spaceflight factors 02 p0260 N84-11704
VOLKOVA, M. I.
Respiratory tract closing volume and structure of total lung capacity during seven-day hypokinesia in head-down position 07 p1045 N84-16778
VOLLAN, A.
German-Argentinian R and D project for the utilization of wind energy
[BMFT-FB-T-84-080] 20 p3237 N84-30549
VOLLAND, H.
The IPSM coronal-sounding experiment
09 p1262 N84-18240
VOLLERNER, N. F.
Design and manufacturing technology of radioelectronic equipment, chapter 5
[AD-A136509] 09 p1307 N84-18545
VOLLMERS, H.
Separation and vortical-type flow around a prolate spheroid: Evaluation of relevant parameters
03 p0323 N84-12113
VOLLTRAUER, H. N.
Prototype chemiluminescent analyzer for measurement of hydrazines and nitrogen dioxide
[AD-A135622] 09 p1279 N84-18354
VOLNOV, V. O.
Magnetic properties of interstitial phases in vanadium-oxygen system
[BLL-M-35386] 09 p1393 N84-19095
VOLODICHEV, N. N.
The study of peculiarities of the energy spectrum of low energy electrons in the lower atmosphere
24 p3993 N84-35273
VOLOKHOV, V. F.
Experimental psychological methods used in expert evaluation of mental work capacity of flight personnel in the presence of functional disturbances and central nervous system diseases 02 p0261 N84-11712

VOLOSHIN, Y. N.
Structure and properties of amorphous powder material after explosive loading 24 p3870 N84-34526
VOLS, J.
Annoyance ratings for impulse and traffic sounds at two different background noise levels
[IZF-1983-27] 17 p2725 N84-27345
VOLYAK, K. I.
Speckle statistics in radar images of sea surface obtained with horizontal polarization 18 p2823 N84-27921
VOLZ, R. A.
Coordinated research in robotics and integrated manufacturing
[AD-A137042] 10 p1555 N84-20191
VOMVORIDIS, J. L.
Longitudinal and transverse instabilities in a high current modified betatron electron accelerator
[AD-A142822] 21 p3493 N84-32132
VON LAVEN, S.
Two-stage FEL (Free Electron Laser) program
[AD-A133508] 06 p0850 N84-15546
VONALT, C.
Feasibility of remotely manipulated welding in space. A step in the development of novel joining technologies
[NASA-CR-175437] 11 p1664 N84-20857
VONBAEYER, H. C.
An experimental investigation of electric flashover across solid insulators in vacuum
[NASA-CR-175379] 08 p1149 N84-17478
VONCOURBIERE, R.
Development of a new charger system
[BMFT-FB-T-83-305] 15 p2328 N84-24977
VONDERHAAR, T. H.
Determination of cloud parameters for NEROS 2 from digital satellite data
[PB84-162601] 14 p2182 N84-24075
VONERICHSEN, L. C.
Kinematics of the structure and morphology during surface reactions between transition metals and molecular hydrogen 06 p0816 N84-15317
VONEYNATTEN, C.
Cycle of waste heat energy transformation
[BMFT-FB-T-83-173] 07 p1026 N84-16652
VONFINCKENSTEIN, K.
Crank-Nicholson difference schemes for solving coupled systems of nonlinear diffusion equations
[IPP-6/223] 03 p0424 N84-12776
VONFRESE, R. R. B.
Seismic properties of the crust and uppermost mantle of North America
[NASA-CR-175134] 06 p0877 N84-15708
Application of Magsat lithospheric modeling in South America. Part 1: Processing and interpretation of magnetic and gravity anomaly data
[E84-10115] 13 p2005 N84-23008
Application of MAGSAT to lithospheric modeling in South America. Part 2: Synthesis of geologic and seismic data for development of integrated crustal models
[E84-10126] 15 p2355 N84-25128
Euro-African MAGSAT anomaly-tectonic observations 15 p2355 N84-25129
Satellite elevation magnetic and gravity models of major South American plate tectonic features 15 p2355 N84-25131
Reduced to pole long-wavelength magnetic anomalies of Africa and Europe 15 p2355 N84-25132
Satellite magnetic anomalies of Africa and Europe 15 p2356 N84-25133
Do satellite magnetic anomaly data accurately portray the crustal component? 15 p2356 N84-25134
Long-wavelength magnetic and gravity anomaly correlations of Africa and Europe 15 p2356 N84-25135
US aeromagnetic and satellite magnetic anomaly comparisons 15 p2356 N84-25136
VONGLAHN, U. H.
Correlation of flight effects on centerline velocity decay for cold-flow acoustically excited jets
[NASA-TM-83502] 02 p0287 N84-11883
On some flow characteristics of conventional and excited jets
[NASA-TM-83503] 04 p0594 N84-13922
Velocity and temperature characteristics of two-stream, coplanar jet exhaust plumes
[NASA-TM-83730] 19 p2965 N84-28790
Helicopter engine core noise 19 p3098 N84-29676
VONGLINOW, M. A.
Incentives for controlling the performance of high technology and professional employees
[AD-A134074] 06 p0933 N84-16061
Organizational outcomes of creativity
[AD-A132825] 06 p0933 N84-16066
VONHALLE, E.
Remarks on the axial flow taper in a countercurrent gas centrifuge
[DE84-002931] 07 p1003 N84-16506
VONHOLLE, W. G.
Time resolved measurement and analysis of the response of confined explosives to heat, impact and penetration
[DE84-002781] 07 p0981 N84-16358
New developments in cylinder testing
[DE84-002782] 15 p2337 N84-25033
VONLAVEN, S.
A low loss quasioptical cavity for a two-stage Free Electron Laser (FEL)
[AD-A133321] 06 p0850 N84-15541
VONLUETZOW, H. B.
On generation, estimation, utilization, availability and compatibility aspects of geodetic and meteorological data
[AD-A135844] 10 p1436 N84-19388
On recent progress in and utilization of astrogeodetic-inertial and astrogeodetic-gradiometric gravity vector determination
[AD-A136263] 10 p1526 N84-19993
VONNEGUT, B.
Modification of the surface temperature by an artificial cirrus cloud
[DE84-011387] 20 p3247 N84-30611
Nighttime observations of thunderstorm electrical activity from a high altitude airplane
[NASA-TM-86455] 21 p3405 N84-31597
Mesoscale observations of lightning from Space Shuttle
[NASA-TM-86451] 22 p3598 N84-32788
Nighttime observations of thunderstorm electrical activity from a high altitude airplane 24 p3926 N84-34853
Lightning observations from the Space Shuttle 24 p3928 N84-34862
VONOFENHEIM, W. H.
Application and enhancements of MOVIE.BYU 12 p1871 N84-22195
The Solid Model Geometry Generator (SMGG) 12 p1872 N84-22199
Computer generated animation and movie production at LARC: A case study
[NASA-CR-172375] 18 p2917 N84-28494
VONOHAIN, H. P.
Thrust augmentation study of high performance ejectors
[AD-A142650] 20 p3126 N84-29856
VONPRAGENAU, G. L.
Low loss injector for Space Shuttle main engine. Center director's discretionary fund
[NASA-TM-82567] 10 p1450 N84-19469
Space Shuttle with rail system and aft thrust structure securing solid rocket boosters to external tank
[NASA-CASE-MFS-25853-1] 18 p2802 N84-27784
VONREDWITZ, H.
Relation between atmospheric scattering and backscattering coefficient
[DFVLR-FB-83-20] 07 p1075 N84-16989
VONRIBBECK, U.
Laser technology: Material for separating, joining and surface treating
[RKW-836] 16 p2497 N84-26019
VONROOS, O.
The physics of a single-event upset in integrated circuits: A review and critique of analytical models for charge collection
[NASA-CR-173471] 12 p1912 N84-22459
VONROSENVINGE, T. T.
The rapidly moving telescope: An instrument for the precise study of optical transients 09 p1407 N84-19193
VONTIESENHAUSEN, G.
Tethers in space: Birth and growth of a new avenue to space utilization
[NASA-TM-82571] 12 p1779 N84-21607
VONWAHL, W.
On the singular set and the uniqueness of weak solutions of the Navier-Stokes equations
[PREPRINT-635] 17 p2759 N84-27523
Local and global existence and behavior for t tends to infinity Navier-Stokes equations
[CTH-MATH-1984-08] 23 p3818 N84-34214
VONWARD, P.
Air pollution effects on aquatic ecosystems: Summary of a symposium
[PB84-185214] 20 p3239 N84-30562
VONWINTERFELD, C.
Pattern deformation of scalar antenna arrays due to near field backscatter
[LFD-210] 15 p2318 N84-24913
VONWINTERFELDT, D.
Equal weights, flat maxima, and trivial decisions
[AD-A138506] 12 p1895 N84-22342
VOON, W. S. F.
Least squares parameter estimation algorithms for nonlinear systems
[RR-225] 18 p2923 N84-28536
VOORHOEVE, M.
Factorization algorithms of exponential order 08 p1224 N84-17984
VORA, H.
Study of mechano-chemical machining of ceramics and the effect on thin film behavior
[AD-A142542] 20 p3162 N84-30080
VORBERG, D.
Development of low noise vacuum vane pumps
[BMFT-FB-HA-84-009] 18 p2850 N84-28094
VORBURGER, T. V.
FASTMENU: A set of FORTRAN programs for analyzing surface texture
[PB83-240838] 02 p0276 N84-11804
VOROBEV, G. M.
Cubic silicon nitride in iron-silicon steels
[BLL-M-35653-(5828.4)] 22 p3552 N84-32486
VOROBYEV, A. P.
Effect of nonhomogeneity on nonlinear stabilization of acoustic vibrations in heat emitting medium within bounded volume 17 p2646 N84-26926
VOROBYEV, M. D.
Coupling of current and frequency-modulated noise in Gunn oscillators 17 p2636 N84-26865
VOROBYEV, S. A.
Electromagnetic effects in strong field of single crystals 21 p3485 N84-32084
VOROBYEV, Y. I.
Shielding part of bone marrow as a method of local protection against cosmic radiation 07 p1044 N84-16771
Biomedical experiments on Soviet-French flight 09 p1264 N84-18254
Main results of medical studies on Salyut-6–Soyuz program 15 p2375 N84-25249
Decision-making process in management automation 24 p3892 N84-34644
VORONENKO, B. I.
Martensitic transformations, relaxation and acoustic-emission properties of some alloys of the Fe-Ni-Mn system
[BLL-M-35434-(5828.4)] 09 p1261 N84-18363
VORONIN, V. P.
Martensite transformation and shape memory in Ti0.5Ni0.5-xPd sub x system alloys 12 p1786 N84-21649
VORONINA, N. N.
Dependence of acoustic properties of sound absorbing fibrous materials on their structure 21 p3477 N84-32044
VORONOV, A. N.
Stability of mechanical properties of cold-drawn rolled metal with high-temperature thermomechanical treatment
[BLL-M-35292-(5828.4)] 06 p0803 N84-15233
VORROPOULOS, G.
Laser velocimetry study of compressibility effects on the flow field of a delta wing 03 p0322 N84-12108
VORSTER, M. C.
Information systems design in construction management 05 p0717 N84-14696
VORTHMAN, J. E.
Three-dimensional computer modeling of a shock-recovery experiment
[DE83-015915] 02 p0220 N84-11441
VOS, J.
Annoyance ratings for impulse and traffic sounds presented in quiet surroundings
[IZF-1983-23] 12 p1900 N84-22373
VOS, J. B.
Radiative heat transfer, Favre-averaging and turbulence closure models for combustion applications
[VTH-LR-383] 10 p1496 N84-19780
Solid fuel combustion chamber
[VTH-LR-392] 12 p1803 N84-21756
VOSEN, S. R.
Pressure effects on wall heat transfer during flame quenching
[DE84-012265] 21 p3401 N84-31575
Unsteady heat transfer during laminar flame quenching
[DE84-006301] 23 p3715 N84-33550
Unsteady heat transfer during the interaction of a laminar flame with a cold wall 23 p3745 N84-33739
VOSKRESENKIY, A. D.
Changes in cardiac output and orthostatic stability of cosmonauts 02 p0259 N84-11697

VOSS, S.
Space reactors: What is a kilogram?
[DE84-012656] 22 p3655 N84-33169
VOSSLOH, D.
The Spacelab Atmosphere Storage and Control Section (ASCS) and its orbiter common hardware flight performance 10 p1443 N84-19427
VOSTRIKOV, V. A.
Modeling of lethal electric shock 22 p3629 N84-33000
VOVELLE, C.
Mechanism of soot formation in preximed C2H2/O2 flames 13 p1958 N84-22727
VOVK, A. Y.
Measurement of flux density of sound energy 17 p2638 N84-26874
VOYEVODA, O. D.
Relationship between residual displacements, strains and tilts of Earth's surface and earthquake focus characteristics 18 p2862 N84-26174
VOYTIK, A.
Water resources data for Pennsylvania, Water Year 1982. Volume 1: Delaware River Basin
[PB84-161579] 14 p2170 N84-23999
VRACHINAS, S. A.
Electrostatic discharge (ESD) simulator experiment (testing of some switches/relays for application to an ESD simulation circuit)
[AD-A134580] 07 p0998 N84-16468
VRANESIC, Z. G.
Ternary transmission to local area networks
[AD-P002360] 14 p2193 N84-24151
VREEDE, F. A.
Instruction manual for the use of the CSIR triaxial rock stress measuring equipment
[CSIR-ME-1763] 04 p0538 N84-13535
VREELAND, T., JR.
X-ray and backscattering analysis of ion implantation phenomena in GaAs and related compounds
[AD-A132429] 04 p0612 N84-14038
Shock compaction of molybdenum powder
[NASA-CR-173154] 08 p1133 N84-17369
Shock consolidation of powders: Theory and experiment
[DE84-007273] 13 p1961 N84-22741
Orbiting dynamic compression laboratory
[NASA-CR-173704] 18 p2798 N84-27755
Mechanical properties of a shock consolidated steel powder
[DE84-003573] 20 p3158 N84-30056
VRTILEK, J. M.
Seyfert galaxy narrow-line regions: A spectroscopic investigation 17 p2774 N84-27612
VU, B. D.
A nonlinear control law for piloting aircraft in the air-to-ground attack phase 03 p0317 N84-12071
VU, B. T.
Experimental study of turbulent swirling flows 11 p1650 N84-20776
VU, D. T.
Analytical theory of the motion of the Galilean satellites of Jupiter: The first approximation 19 p3120 N84-29834
VUKOBRATOVICH, D.
Double arch mirror study. Part 1: Preliminary engineering report
[NASA-CR-166589-PT-1] 21 p3412 N84-31634
Double arch mirror study. Part 2: Engineering analysis report
[NASA-CR-166589-PT-2] 21 p3412 N84-31635
Double arch mirror study. Part 3: Fabrication and test report
[NASA-CR-166589-PT-3] 21 p3412 N84-31636
Double arch mirror study
[NASA-CR-166589] 21 p3412 N84-31637
VULFSON, A. N.
Stability criterion for moist compressible atmosphere and energy conditions for development of convective cloud cover: Numerical experiment 20 p3224 N84-30489
VULLIET, W. G.
Nuclear-induced lightning aurora experiment
[AD-A131274] 02 p0249 N84-11628
VUORINEN, M.
On the order of quasiregular mappings 04 p0576 N84-13793
On the Harnack constant and the boundary behavior of Harnack functions 04 p0576 N84-13796
VUYE, G.
Research and development for investigations of metallic adsorptions on metal surfaces by optical techniques complemented by dc resistivity and auger spectroscopy
[AD-A131739] 03 p0361 N84-12351
VYACHESLAVOV, L. N.
Production of dense plasma column in strong magnetic fields and its diagnosis by laser methods 21 p3488 N84-32104
VYALOV, S. S.
Handbook on the determination of the physical, thermal and mechanical properties of frozen soils
[NRC/CNR-TT-2064] 03 p0395 N84-12578
VYATKIN, V. M.
Problems of diffraction and propagation of waves (selected articles)
[AD-A143912] 23 p3731 N84-33650
VYKUKAL, H. C.
Shoulder and hip joint for hard space suits and the like
[NASA-CASE-ARC-11534-1] 22 p3633 N84-33021
VYSKREBENTSEV, A. I.
Noncontradictory method of calculating radiation transfer, and problem of shock wave structure 21 p3481 N84-32060
VYSTAVKIN, A. N.
Josephson point contacts noise properties at microwave 22 p3569 N84-32602
VYTCHIKOVA, M. A.
Sanitary and hygienic features of cabin environment in Salyut-7 orbital station 15 p2375 N84-25253
VZYATYSHEV, V. F.
Concerning Q of a cylindrical dielectric resonator screened by a waveguide 17 p2631 N84-26832

W

WAAG, W. L.
The measurement of C-5A aircrew performance
[AD-P003268] 18 p2907 N84-28433
WACHTMAN, J. B., JR.
The nature of the critical and strategic materials problem 23 p3702 N84-33466
WACKERLE, J.
LARC: Computer codes for Lagrangian analysis of stress-guage data to obtain decomposition rates through correlation to thermodynamic variables
[DE84-002404] 06 p0813 N84-15292
WACKS, K. P.
Cognitive information processing 22 p3684 N84-33360
WADA, B. K.
The 55-meter-structure flight experiment 08 p1112 N84-17233
WADA, M.
Random-choice solutions for two-dimensional and axisymmetric supersonic flows 20 p3168 N84-30115
WADA, R. Y.
Atmospheric emergencies: Existing capabilities and future needs
[PB83-250779] 05 p0701 N84-14602
WADA, S.
Quenched Carbonaceous Composite (QCC): A likely candidate for interstellar grains 16 p2571 N84-26501
Quenched Carbonaceous Composite (QCC): A likely candidate for interstellar grains 18 p2949 N84-26699
WADDELL, E.
South Atlantic physical oceanography study (year 5). Volume 1: Executive summary
[PB84-187855] 21 p3451 N84-31899
WADDOUPS, I. G.
Optical surveillance for international safeguards: Present and future
[DE83-014278] 02 p0223 N84-11465
WADE, J. E.
Wind energy assessment studies in the Goodnoe Hills and Cape Blanco areas
[DE84-010087] 19 p3059 N84-29409
Regional Wind Energy Assessment Program report. Appendix: Wind statistics summaries
[DE84-011835] 21 p3448 N84-31876
Regional wind energy assessment program
[DE84-011832] 21 p3448 N84-31878
WADE, T. E.
High density circuit technology
[NASA-CR-162039] 19 p3012 N84-29089
High density circuit technology, part 3
[NASA-CR-162040] 19 p3012 N84-29090
High density circuit technology
[NASA-CR-162041] 19 p3012 N84-29091
High density circuit technology, part 1
[NASA-CR-162008] 19 p3012 N84-29094
WADE, T. O.
Approaches to optimization of SS/TDMA time slot assignment
[NASA-CR-168328] 07 p0963 N84-16243
WADE, W. D.
Interactive communication systems simulation model (ICSSM) extension
[AD-A135704] 09 p1302 N84-18509
WADHAMS, P.
MIZEX: A program for mesoscale air-ice-ocean interaction experiments in Arctic marginal ice zones. 2: A science plan for a summer marginal ice zone experiment in the Fram Strait/Greenland sea: 1984
[AD-A134872] 08 p1187 N84-17737
WADIER, J. F.
Vacuum recycling effect on minor elements in superalloys 23 p3704 N84-33481
WADLINGER, E. A.
General-purpose RFQ design program
[DE84-011327] 20 p3175 N84-30165
WADSWORTH, A.
. Passive radiometry and other remote sensing data interpretation for oil slick thickness assessment, in an experimental case 03 p0399 N84-12609
Radar bathymetry : A review 03 p0400 N84-12612
WADSWORTH, A. L., III
Study to establish cost projections for production of Redox chemicals
[NASA-CR-167881] 02 p0241 N84-11580
WADSWORTH, J.
Superplastic bonding and ultrahigh carbon steel laminated composites
[AD-A137807] 11 p1627 N84-20651
WADZINSKI, H.
Application of methods of numerical and software engineering analysis to physical and engineering data collected in a variety of laboratory and field measurement programs
[AD-A137863] 11 p1682 N84-20975
WAECHTER, D. A.
New-generation low-power radiation survey instruments
[DE84-001716] 05 p0685 N84-14506
WAELDELE, F.
A contribution to the calculation of measurement uncertainty and optimization of measuring strategies in coordinate measurement
[PTB-ME-39] 02 p0206 N84-11345
WAGEMANN, G.
Interactive creation of instructions for interactive graphic analysis (INGA)
[ISD-300] 15 p2390 N84-25337
Interactive creations and modification of chinese characters
[ISD-299] 15 p2417 N84-25513
WAGENAAR, W. A.
Societal versus individual decision making: How they might differ
[IZF-1983-20] 12 p1867 N84-22166
WAGGENSPACK, W. N., JR.
Computer-Aided Structural Engineering (CASE) project. Reference manual: Computer graphics program for generation of engineering geometry (SKETCH)
[AD-A133493] 06 p0898 N84-15828
WAGNER, A.
Technical applications of solar energy. Project photovoltaic systems and project selective coatings
[BMFT-FB-T-83-299] 12 p1844 N84-22025
WAGNER, B.
Prediction of condensation onset and growth in the European Transonic Wind Tunnel (ETW) 14 p2096 N84-23578
WAGNER, C. A.
Propagating plane harmonic waves through finite length plates of variable thickness using finite element techniques 06 p0860 N84-15601
Propagation of flexural and membrane waves with fluid loaded NASTRAN plate and shell elements 06 p0860 N84-15602
WAGNER, D.
Integrity control of carbon fiber reinforced plastics structural elements, phase 1 report
[TB-TS-11-01/82-A] 09 p1289 N84-18416
WAGNER, E.
Development of an ultrasonic testing procedure for electron beam welded parts for aerospace applications
[BMFT-FB-W-72-011] 03 p0386 N84-12515
WAGNER, F. T.
Application of surface-physics techniques to the study of electrochemical systems
[DE84-000957] 04 p0494 N84-13245
WAGNER, H. G.
Elementary reactions of NH2 radicals in the gas, phase 3
[MPIS-2/1983] 05 p0652 N84-14285
Detection methods for atoms and radicals in the gas phase
[MPIS-1/1983] 10 p1577 N84-20334
Primary patterns of electronically excited molecules in the gas phase 2
[MPIS-9/1983] 13 p2041 N84-23245
Soot formation in diffusion flames 15 p2291 N84-24750

Primary processes of electronically excited molecules in vapor phase, part 3
[MPIS-12/1983] 18 p2930 N84-28582
Detection of NH-2O-radicals by far-infrared laser magnetic resonance spectroscopy
[MPIS-6/1984] 20 p3151 N84-30010

WAGNER, J.
Development of particle sizing for highly concentrated colloidal dispersions using photon correlation spectroscopy
[BMFT-FB-T-84-117] 23 p3716 N84-33553

WAGNER, J. E.
Diffusion properties and phase transitions of the metalic glass a-Zr2-PdH-x
[DE83-016626] 05 p0660 N84-14341

WAGNER, J. H.
Compressor rotor aerodynamics
07 p0958 N84-16210

WAGNER, K.
Real-time synthetic aperture radar processing
12 p1906 N84-22416

WAGNER, M. L.
MIL-STD-1750A users group
[AD-P003547] 21 p3333 N84-31151

WAGNER, P.
Research on diffusion and complex behavior of elements forming recombination centers in silicon by means of optical and electrical measurement techniques
[BMFT-FB-T-83-117] 02 p0300 N84-11971
Analysis of impurities forming recombination centers in silicon
[BMFT-FB-T-84-049] 19 p3113 N84-29779

WAGNER, R.
Study of wind scatterometer antenna for ERS-1. Volume 1: Executive summary report
[Y/A-3380] 13 p2017 N84-23080
Study of windscatterometer antenna for ERS-1
[MIX/A-3188] 13 p2018 N84-23081
The neutron induced embrittlement of reactor pressure vessel steels and ferritic alloys
[AD-B080746] 15 p2295 N84-24770
Safety-related requirements for photovoltaic modules and arrays
[NASA-CR-173747] 18 p2868 N84-28208

WAGNER, R. C.
Durable solid lubricant coatings for foil gas bearings to 315 deg C
[NASA-TM-83596] 10 p1465 N84-19567

WAGNER, R. D.
Low mileage catalyst evaluation with a methanol-fueled Rabbit
[PB83-241620] 02 p0230 N84-11506
A study of the relationship between exhaust emissions and fuel economy
[PB83-235564] 03 p0385 N84-12506
A flight test of laminar flow control leading-edge systems
[NASA-TM-85712] 05 p0625 N84-14110

WAGNER, R. L.
High energy electromagnetic shower position measurement by a fine grained scintillation hodoscope
06 p0912 N84-15928
A measurement of the response of an SCG1-C scintillation glass shower detector to 2-17.5 GeV positrons 06 p0913 N84-15930

WAGNER, R. M.
A spectrophotometric study of temporal variations in the optical spectrum of SS 433 21 p3522 N84-32312

WAGNER, R. S.
InP:Fe picosecond photoconductors
[DE83-015237] 02 p0215 N84-11410

WAGNER, S. S.
Communication networks 22 p3683 N84-33356

WAGNER, U.
Fundamentals and physical limits of holographic memories with and without associative recall
[BMFT-FB-DV-83-002] 02 p0225 N84-11475

WAGNER, V.
Advanced ND techniques for composite primary structures 01 p0034 N84-10216

WAGNER, W.
Comparative measurements of the unsteady pressures on three oscillating wing-tip models
[DFVLR-FB-84-07] 19 p2960 N84-28758

WAGNER, W. B.
Combustor liner construction
[NASA-CASE-LEW-14035-1] 15 p2260 N84-24577

WAGONER, D. E.
High energy electromagnetic shower position measurement by a fine grained scintillation hodoscope
06 p0912 N84-15928
A measurement of the response of an SCG1-C scintillation glass shower detector to 2-17.5 GeV positrons 06 p0913 N84-15930
Measurement of the energy resolution and related properties of an SCG1-C scintillation glass shower counter array for 1 to 25 GeV positrons
[DE84-007246] 14 p2148 N84-23871
Measurement of electromagnetic shower position and size with a saturated avalanche tube hodoscope and a fine grained scintillation hodoscope
[DE84-007247] 15 p2337 N84-25032

WAGSTAFF, F. J.
Evaluating proposed improvements of public rangelands
[PB83-251124] 04 p0556 N84-13669

WAHBA, G.
Design criteria and eigensequence plots for satellite computed tomography
[NASA-CR-172787] 09 p1267 N84-18276
Smoothing, regularization and ill-posed inverse problems; robust and convex estimation of functions of several variables
[AD-A137810] 11 p1714 N84-21176

WAHBA, N. N.
Response of a plaster-wood room subjected to simulated sonic booms
[UTIAS-276] 21 p3421 N84-31701

WAHLBORN, S.
The research of National Defence's (FOA) future policy document on space technology
[FOA-A-30034-E1] 15 p2265 N84-24602

WAHLEN, A.
New machines for grinding, facetting and profiling hard materials
[CSIR-TRANS-1750] 22 p3603 N84-32821

WAHR, J. M.
Computing tides, nutations and tidally-induced variations in the Earth's rotation rate for a rotating, elliptical Earth
07 p1030 N84-16675

WAHRER, D. J.
Laser diagnostic development and measurement and modeling of turbulent flowfields of jets and wakes. Part 2: Numerical predictions of isothermal flowfields in a ducted centerbody combustor
[AD-A134692] 08 p1159 N84-17543

WAILES, T. S.
Placing hidden surface removal within the CORE graphics standard: An example
[AD-A138239] 12 p1882 N84-22266

WAINFAN, B. S.
Integrated technology wing design study
[NASA-CR-3586] 23 p3693 N84-33402

WAINWRIGHT, E. S.
Durable copper polyimide adhesive bonds
[AD-A130221] 01 p0049 N84-10319

WAISANEN, P. R.
Application of advanced parameter identification methods for flight flutter data analysis with comparisons to current techniques 24 p3848 N84-34401

WAITE, J. H.
Wet model of Saturn's ionosphere: Water from the rings
[NASA-TM-86144] 24 p3992 N84-35262

WAITE, J. W.
Flow-visualization study of the MOD-2 wind-turbine wake
[DE83-014391] 01 p0080 N84-10523

WAITE, W. A.
Anion permselective membrane
[NASA-CR-174725] 19 p3050 N84-29358

WAITE, W. P.
Inversion algorithms for the microwave remote sensing of soil moisture. Experiments with swept frequency microwaves
[NASA-CR-173323] 09 p1336 N84-18726
Digital color space transformations
23 p3779 N84-33960

WAKAHAMA, G.
The effect of ice temperature on regelation velocities
15 p2353 N84-25113
Plastic deformation of ice single crystals containing inclusions 15 p2353 N84-25114
Simultaneous observation of snowfall intensity and visibility in winter at Sapporo 15 p2354 N84-25125

WAKAMATSU, T.
Building systems and smoke control
04 p0511 N84-13347
Recent Japanese progress in fire modeling
04 p0511 N84-13353

WAKASUGI, K.
Properties of echo spectra observed by MST radars
17 p2696 N84-27171

WAKENELL, J. F.
Alternative fuels for medium-speed diesel engines (AFFMSDE) program: Slurries, emulsions, and blended-fuel extenders; cylinder wear measurements, staged injection
[DE84-000524] 04 p0510 N84-13340

WAKITA, A.
Comparison of thermal, line-source electron beam and CW laser annealing for the fabrication of ErSi/sub 2 Schottky barrier on Si
[DE84-003105] 07 p1081 N84-17031

WAKKER, K. F.
Precise orbit determination for ERS-1
[ESA-CR(P)-1842] 12 p1776 N84-21591
Analysis of POPSAT gravity model errors
[ESA-CR(P)-1883] 17 p2615 N84-26737

WAKUI, M.
Logic-type Schmitt circuit using multi-valued gates
[AD-P002353] 14 p2192 N84-24144

WAKURI, T.
A method of measuring distortion noise in digital audio equipment
[NHK-LABS-NOTE-299] 20 p3177 N84-30174

WALBERG, G. D.
The next generation of reentry vehicles: NASA's view
16 p2441 N84-25658
Shuttle flight data analysis 16 p2441 N84-25659

WALBERT, J. N.
A computer subroutine for evaluating polygamma functions for complex arguments
[AD-A131936] 03 p0420 N84-12744
Calculation of Legendre functions on the cut for integral order and complex degree by means of Gauss continued fractions
[AD-A139630] 17 p2758 N84-27506

WALCH, M.
The role of microorganisms in marine corrosion processes
[AD-A133113] 06 p0885 N84-15757

WALCH, S.
Theoretical research program to predict the properties of molecules and clusters containing transition metal atoms
[NASA-CR-173924] 22 p3554 N84-32502

WALCK, M. C.
Teleseismic array analysis of upper mantle compressional velocity structure
[NASA-CR-173285] 08 p1185 N84-17723
The upper mantle beneath the Cascade Range: A comparison with the Gulf of California
[NASA-CR-175428] 11 p1681 N84-20970

WALD, S.
WC user's guide
[DE84-009242] 20 p3274 N84-30784

WALDEN, B. L.
Structure of glasses containing transition metal ions
[DE84-004211] 10 p1468 N84-19591

WALDEN, D. C.
Evidence for parallel elongated structures in the mesosphere 17 p2689 N84-27122
High frequency radar software reference manual for product one
[PB84-194885] 22 p3578 N84-32665

WALDEN, H. J.
The application of a general purpose data base management system to design automation
[AD-A141999] 20 p3314 N84-31048

WALDEN, R. G.
Bottom-mounted profiling winch
[AD-A141808] 19 p3032 N84-29230

WALDMANN, D.
Development of a digital air data computer using modern microprocessors, hybrid circuits, and pressure sensors with frequency output
[BMFT-FB-W-84-018] 21 p3343 N84-31208

WALDRON, K. J.
An experimental study of an ultra-mobile vehicle for off-road transportation
[AD-A131449] 02 p0303 N84-11991
An experimental study of an ultra-mobile vehicle for off-road transportation
[AD-A141323] 18 p2849 N84-28091

WALDROP, J. R.
Theoretical and experimental investigation of heterojunction interfaces
[AD-A135896] 09 p1395 N84-19111

WALDROP, P. S.
Crew survivable helicopter undercarriage
[AD-A137770] 11 p1605 N84-20517

WALECKA, J. D.
Electron scattering: Lectures given at ANL
[DE84-006689] 15 p2414 N84-25491

WALEGA, J. G.
Chemiluminescent/laser diode measurement technique intercomparison and captive air measurement program
[PB84-134485] 11 p1661 N84-20839

WALEN, D. B.
MLS/Airplane system design. RF component design
[NASA-CR-172339] 15 p2259 N84-24567

WALES, C. E.
DMA and CIG: A shotgun wedding
[AD-P003459] 21 p3510 N84-32236

WALES, H. M.
DECISION TECHNOLOGY: The catalyst for acquisition improvement
[AD-P002755] 13 p2051 N84-23302
WALGEMOED, H.
Transonic flutter clearance for a supercritical transport aircraft in the preliminary stage
02 p0170 N84-11121
WALIGORA, J. M.
Verification of an altitude decompression sickness prevention protocol for Shuttle operations utilizing a 10.s psi pressure stage
[NASA-TM-58259] 18 p2899 N84-26392
Increase in whole-body peripheral vascular resistance during three hours of air or oxygen prebreathing
[NASA-TM-58261] 20 p3259 N84-30684
Pulmonary artery location during microgravity activity: Potential impact for chest-mounted Doppler during space travel
[NASA-TM-58262] 21 p3457 N84-31935
WALITT, L.
Calculation of the 3-D viscous flow at the endwall leading edge region of an axial annular turbine cascade
[NASA-CR-168275] 21 p3325 N84-31095
WALKER, A. D. M.
Magnetospheric and atmospheric physics at the University of Natal 09 p1344 N84-18778
WALKER, B.
Experimental investigation of rocket motor flow-turning acoustic losses
[AD-A144168] 24 p3866 N84-34504
WALKER, B. J.
COMPBL-II: Compressible, variable pressure boundary layer program for arbitrary gaseous mixtures
[AD-A131352] 02 p0218 N84-11427
Transonic nozzle-afterbody flow field measurements using a laser Doppler velocimeter
14 p2098 N84-23592
WALKER, B. K.
Feedback in robotics for assembly and manufacturing
[PB84-177112] 17 p2675 N84-27044
WALKER, C. A.
Containerless high temperature property measurements by atomic fluorescence
[NASA-CR-171038] 15 p2412 N84-25481
WALKER, C. B.
FPP1, A floating point package for PDP-8 computers
[AD-A134236] 07 p1054 N84-16828
DSP1, a Diffractometer Subroutine Package for PDP-8 computers
[AD-A137458] 10 p1563 N84-20241
WALKER, C. L.
Ceramic composite liner material for gas turbine combustors
[NASA-TM-83490] 05 p0631 N84-14145
WALKER, D.
Steam bottoming cycle for an adiabatic diesel engine
[NASA-CR-168255] 22 p3676 N84-33304
WALKER, D. A.
Spectral analyses of high-frequency Pn, Sn phases from very shallow focus earthquakes
[AD-A137778] 11 p1681 N84-20973
WALKER, D. J.
Laser techniques for extreme-ultraviolet spectroscopy
[DE83-014834] 02 p0227 N84-11486
WALKER, D. N.
Suprathermal electron tail distributions in a space-simulation beam plasma discharge
05 p0638 N84-14199
Real-time in-situ targeting of geoplasma domains for purposes of chemical injection and artificial triggering of equatorial spread-F 05 p0639 N84-14208
WALKER, D. T.
Injection of drag reducing additives into turbulent water flows: Results from factorial design
[AD-A141675] 19 p3024 N84-29177
WALKER, E. D.
Method of reducing temperature in high-speed photography
[NASA-TM-83620] 12 p1907 N84-22421
WALKER, F. E.
Simulation of shock-induced energy flux in molecular solids
[DE84-001157] 04 p0613 N84-14047
Simulation of shock-induced energy flux in molecular solids, revision 1
[DE84-008331] 15 p2304 N84-24827
WALKER, G. J.
The influence of a moving suspension on the behaviour of modelled helicopter underslung loads
[BU-288] 15 p2260 N84-24573
WALKER, H. C., JR.
Collision widths of CO lines broadened by water vapor at elevated temperatures
[AD-A136121] 09 p1323 N84-18644
WALKER, H. J.
An analysis of the helium-weak stars HD 144334
24 p3976 N84-35182
WALKER, J. A.
Pre-launch absolute radiometric calibration of LANDSAT-4 protoflight Thematic Mapper
20 p3207 N84-30373
Prelaunch absolute radiometric calibration of the reflective bands on the LANDSAT-4 protoflight Thematic Mapper
[E84-10180] 21 p3428 N84-31751
Prelaunch absolute radiometric calibration of LANDSAT-4 protoflight Thematic Mapper
[E84-10181] 21 p3429 N84-31752
WALKER, J. B.
Spacecraft thermal balance testing using infrared lamps on a dummy spacecraft 10 p1439 N84-19399
Surface property measurement for spacecraft thermal balance testing 10 p1447 N84-19451
WALKER, J. D. A.
Theoretical and experimental investigation of coherent structure in the turbulent boundary layer
[AD-A140517] 16 p2493 N84-25996
WALKER, N. B.
The effects of naturally-occurring propagation disturbances on discrete focused arrays
[AD-A132645] 05 p0670 N84-14404
Phenomenology of structured plasma in the ionosphere
[AD-A136396] 09 p1345 N84-18784
High-latitude ionospheric irregularities
[AD-A142648] 20 p3241 N84-30573
WALKER, P. H.
Emissions variability and traversing on production RB211 engines
[PNR-90176] 13 p1933 N84-22573
WALKER, R.
Real-time flutter analysis
[NASA-CR-170412] 11 p1605 N84-20512
WALKER, R. B.
Reactive resonance and angular distributions in the rotating linear model
[DE84-011354] 20 p3295 N84-30919
The Program Planning Review (PPR): Milestone or millstone?
[AD-P003493] 21 p3514 N84-32259
WALKER, R. D., JR.
Seperators for lithium alloy-iron sulfide fused-salt batteries
[DE83-016203] 02 p0215 N84-11406
WALKER, R. E.
An analysis LANDSAT-4 Thematic Mapper geometric properties 20 p3210 N84-30392
WALKER, R. H.
Transparency technology needs for military aircraft
[AD-P003191] 17 p2590 N84-26604
WALKER, R. J.
Patterns of magnetic field merging sites on the magnetopause 16 p2572 N84-26511
Characteristics of the magnetospheric source of interplanetary energetic particles
16 p2573 N84-26512
WALKER, R. M.
Chemical and isotopic measurements of micrometeoroids by secondary ion mass spectrometry (A0187-2) 15 p2276 N84-24670
WALKER, S.
A study of the effects of end-cap molecular species on environmental characteristics of polimidesulfones
[NASA-TM-86283] 22 p3544 N84-32437
WALKER, S. N.
Wake studies at the flowind vertical axis wind turbine generator site
[DE84-014837] 23 p3691 N84-33392
WALKER, S. T.
C3I (Command, Control, Communications and Intelligence) information systems internetwork study
[AD-A144271] 24 p3942 N84-34958
WALKER, T. R.
Typographical terminology
[DE84-001981] 10 p1593 N84-20441
WALKER, W.
Radiation and laser potential of homo and heteronuclear rare-gas diatomic molecules
[AD-A130093] 01 p0141 N84-10929
WALKER, W. L.
Protective telescoping shield for solar concentrator
[NASA-CASE-NPO-16236-1] 15 p2361 N84-25164
WALKINGTON, P. D.
Sizing defects using annular-array techniques with an automated ultrasonic data-acquisition system
[DE84-001644] 04 p0546 N84-13597
WALKLET, D. C.
Alternative strategies for space station financing
[NASA-CR-175412] 11 p1752 N84-21437
WALKLEY, K. B.
Development and analysis of a STOL supersonic cruise fighter concept
[NASA-TM-85777] 13 p1930 N84-22553
WALKO, L. C.
Data acquisition for evaluation of an airborne lightning detection system
[AD-A135318] 08 p1100 N84-17153
WALKO, R. L.
A numerical investigation of the formation of secondary vortices in laboratory-simulated tornadoes
06 p0880 N84-15725
WALKUP, J. F.
Space-variant optical systems
[AD-A130096] 01 p0146 N84-10961
Space-variant optical systems
[AD-A143996] 23 p3825 N84-34259
WALL, D. J.
A study of thermal properties and the heating process in asphaltic concrete
[AD-A141691] 19 p3035 N84-29254
WALL, J. A.
Analytic models for radiation induced loss in optical fibers I
[AD-A144630] 24 p3964 N84-35100
WALL, J. E.
Performance and robustness aspects of digital control systems 01 p0015 N84-10098
Advanced topics in robustness for multivariable control
[AD-A134606] 07 p1058 N84-16850
Characterization of uncertainty for large space structure control problems 15 p2268 N84-24619
WALLACE, D. R.
The GPRIME approach to finite element modeling
06 p0859 N84-15594
WALLACE, E. J.
Operational studies and expected performance of superconducting quadrupole magnets in the first stages of secondary beams
[DE83-016734] 03 p0456 N84-12999
WALLACE, J. F.
Changes in solidified microstructures
24 p3882 N84-34595
WALLACE, J. S.
Protected ethynylated phenols
[AD-D011096] 22 p3560 N84-32544
WALLACE, J. W.
Fastener load tests and retention systems tests for cryogenic wind-tunnel models
[NASA-TM-85805] 19 p2993 N84-26964
WALLACE, L. A.
Personal exposure to volatile organics and other compounds indoors and outdoors: The TEAM (Total Exposure Assessment Methodology) study
[PB83-231357] 01 p0115 N84-10744
WALLACE, M. S.
Adaptive techniques for troposcatter
[AD-A142226] 19 p3008 N84-29066
WALLACE, R. G.
Effects of spacecraft reflections on RF interferometer position location accuracy
[NASA-CR-175244] 18 p2828 N84-27955
Multipath induced errors in meteorological Doppler/interferometer location systems
[NASA-CR-175243] 18 p2844 N84-28058
WALLACE, R. K.
Nuclear physics problems for accreting neutron stars
[DE83-017297] 04 p0620 N84-14092
WALLACE, R. O.
Plume base flow simulation technology
01 p0018 N84-10116
Launch vehicle aerodynamic data base development comparison with flight data 01 p0018 N84-10117
WALLACE, S. J.
New approach to polarized proton scattering based on Dirac dynamics
[DE84-008018] 20 p3296 N84-30926
WALLACE, W. E.
Study of materials having significance for high energy magnet production and for hydrogen storage
[AD-A130900] 01 p0138 N84-10906
Studies of coercive force of permanent magnet materials
[AD-A138123] 12 p1898 N84-22360
WALLCRAFT, A. J.
Elliptic solvers for NORDA ocean models and a quasi-geostrophic regional eddy-mean energetics package
[AD-A133754] 06 p0884 N84-15751
Elliptic solvers for Mediterranean Sea ocean modeling
[AD-A142306] 19 p3062 N84-29429
WALLER, P.
Are we giving aircraft integrated data systems users the best information in the best way at the best time?
17 p2585 N84-26566

WALLERMEJIA, S.
Electromagnetic universes 11 p1757 N84-21468
WALLERSTEDT, R. L.
Marine seismic System(MSS) deployment. Phase IV: Investigation of techniques and deployment scenarios for installation of tri-axial seismometer in a borehole in the deep ocean
[AD-A132300] 04 p0563 N84-13710
Marine Seismic System (MSS) deployment. Phase 5: An investigation of techniques and deployment scenarios for installation of triaxial seismometer in a borehole in the deep ocean
[AD-A142873] 21 p3444 N84-31850
WALLESHAUSER, J. J.
The Spacelab Atmosphere Storage and Control Section (ASCS) and its orbiter common hardware flight performance 10 p1443 N84-19427
WALLIN, K.
The effect of post weld heat treatment on welds in steel structures
[VTT-RR-217] 07 p1013 N84-16570
A microstatistical model for carbide induced cleavage fracture
[VTT-RR-220] 07 p1017 N84-16599
WALLIS, D.
Dopants profiling techniques in semiconductor technology
[BMFT-FB-T-83-126] 02 p0300 N84-11972
WALLIS, D. D.
Project Waterhole III 05 p0640 N84-14210
WALLIS, D. E.
Low-frequency radio navigation system
[NASA-CASE-NPO-15264-1] 18 p2791 N84-27713
WALLIS, J. R.
Estimation of the generalized extreme-value distribution by the method of probability weighted moments
[AD-A141696] 19 p3093 N84-29642
WALLIS, M. K.
Analysis of hydroxyl data from comet Austin 1982g
24 p3981 N84-35223
WALLIS, P.
Ada-Europe guidelines for the portability of Ada programs, second edition
[NPL-DITC-27/83] 03 p0419 N84-12739
WALLISCH, A.
Air-jet milling of grinding materials
[NASA-TM-77366] 09 p1291 N84-18430
WALLQUIST, D. L.
Development of color criteria for advanced displays
[AD-A143246] 22 p3630 N84-33006
WALLS, D. F.
Multistability, self-oscillation and chaos in nonlinear optics 14 p2232 N84-24387
WALLS, D. J.
Micro and macro mechanics of fracture in ceramics
[AD-A137290] 10 p1465 N84-19572
WALLS, W. W.
Boeing Vertol noise reduction experience
19 p3096 N84-29667
WALLSOM, R. E.
Synchronously deployable truss structure
[NASA-CASE-LAR-13117-1] 07 p0964 N84-16250
A manned-machine space station construction concept
[NASA-TM-85762] 10 p1439 N84-19395
Conceptual design of a mobile remote manipulator system 19 p2982 N84-28894
WALMSLEY, J. L.
Computer-model results for the beach-escarpment-induced distortion of onshore wind flow at the northwest point of San Nicolas Island, California
[AD-A135952] 09 p1349 N84-18815
WALRAFEN, G. E.
Low-frequency Raman scattering from vitreous and molten B2O3
[AD-A132698] 05 p0649 N84-14269
Low frequency Raman spectra of V-B2O3 as a function of temperature and pressure
[AD-A132699] 05 p0649 N84-14270
Raman spectroscopy of shocked water
[DE84-002468] 07 p0972 N84-16295
Temperature dependence of the Raman OH-stretching overtone from liquid water
[AD-A143131] 21 p3359 N84-31305
Raman investigation of the rate of OH uptake in stressed and unstressed optical fibers
[AD-A143142] 21 p3498 N84-32172
WALSER, D.
Submillimeter wavelength survey of the galactic plane from l = -5 deg to l = +62 deg: Structure and energetics of the inner disk
[NASA-TM-86077] 20 p3319 N84-31069
WALSH, E. J.
Altimeter height measurement errors introduced by the presence of variable cloud and rain attenuation
17 p2716 N84-27289
The evolutionary trend in airborne and satellite radar altimeters 17 p2718 N84-27300
WALSH, E. K.
Propagation of acoustic waves in partially saturated porous media
[DE84-010536] 20 p3291 N84-30896
WALSH, F.
Evaluation of a laser-based photoacoustic spectrometer in measurement of stable-isotope ratios
[DE83-014628] 01 p0088 N84-10574
WALSH, J. E.
Stimulated Cerenkov-Raman scattering
[AD-A136473] 09 p1387 N84-19061
High power millimeter wavelength coherent radiation sources
[AD-A144481] 24 p3909 N84-34759
WALSH, J. V.
Pressure letdown method and device for coal conversion systems
[NASA-CASE-NPO-15100-1] 05 p0698 N84-14583
WALSH, M. J.
Drag of two-dimensional small-amplitude symmetric and asymmetric wavy walls in turbulent boundary layers
[NASA-TP-2318] 16 p2486 N84-25944
WALSH, T. H.
Variable area ejector-diffuser model tests
[AD-A134843] 08 p1105 N84-17182
WALSH, W. J.
Annotated bibliography of battery evaluations
[DE84-000653] 04 p0527 N84-13466
A computerized system for establishing electric-vehicle battery requirements
[DE84-011728] 21 p3395 N84-31545
WALSHE, D. E.
Evaluation of aerodynamic admittance of a model bridge oscillating with vertical motion
[NMI-R-175] 18 p2851 N84-28104
The aerodynamic admittance of model bridges
[NMI-R-176] 18 p2851 N84-28105
WALTER, C. E.
Flywheel rotor and containment technology development, FY83
[DE83-017615] 04 p0545 N84-13589
Flywheel rotor and containment technology development
[DE84-005742] 11 p1665 N84-20864
WALTER, E.
Glass fibre/epoxy resin interface life-time prediction
[AD-A132206] 04 p0507 N84-13320
WALTER, H. U.
Dispersion alloys TEXUS-Experiments: TEXUS-01 B TEXUS 7, TEM-01 B
[NASA-TM-77531] 07 p0973 N84-16308
Preparation of dispersion alloys: Component separation during cooling and solidification of dispersions of immiscible alloys 17 p2613 N84-26725
WALTER, L. G.
The effects of atmospheric water vapor absorption on infrared laser propagation in the 5 micrometer band
[AD-A130788] 01 p0087 N84-10566
WALTER, L. S.
Geodynamics
[NASA-CP-2325] 20 p3222 N84-30475
WALTER, P. L.
Effect of measurement system phase response on shock spectrum computation 10 p1509 N84-19877
Effect of measurement system phase response on shock spectrum computation
[AD-P002688] 11 p1659 N84-20823
Instrumenting and interpreting the time-varying response of structural systems
[DE84-009067] 20 p3203 N84-30346
WALTER, W. T.
Laser interaction with metallic surfaces
[AD-A126269] 03 p0378 N84-12464
WALTERICK, R. E.
Heterogeneous diffusion flame stabilization: Constant density results 13 p1952 N84-22689
WALTERS, D. C.
Compound semiconductor characterization
[AD-A143601] 23 p3830 N84-34292
WALTERS, E. A.
Photoionization investigation of iodine molecules and clusters in a supersonic molecular beam
[AD-A142645] 20 p3292 N84-30901
WALTERS, J. L.
Microcomputer aided tracking (MCAT)
[AD-A130651] 01 p0065 N84-10426
WALTERS, R. P.
Structure and porosity of electrodeposited platinum: Evaluation of 4 plating methods
[PB84-152933] 14 p2129 N84-23763
WALTHALL, H. G.
Fabrication of glass gas cells for the HALOE and MAPS satellite experiments
[NASA-TM-86302] 24 p3866 N84-34501
WALTHER, B.
Attention, performance, and sustained activation in military air traffic controllers 11 p1698 N84-21076
WALTHER, H.
Radiation pressure induced optical bistability
14 p2241 N84-24457
WALTHER, J. F.
Study to establish cost projections for production of Redox chemicals
[NASA-CR-167881] 02 p0241 N84-11580
WALTMAN, D. J.
Design, construction and test of a 0.61-meter-diameter, epoxy impregnated superconductive magnet
[AD-A135339] 08 p1226 N84-18009
WALTON, A. J.
Activities report of the European Space Tribology Laboratory (ESTL)
[ESA-ESTL-55] 06 p0853 N84-15563
WALTON, C. C.
Using the NOAA-7 AVHRR data to monitor El Chichon aerosol evolution and subsequent sea surface temperatures anomalies 10 p1539 N84-20063
WALTON, J.
New developments in cylinder testing
[DE84-002782] 15 p2337 N84-25033
WALTON, J. J.
Preliminary report on the global transport model GRANTOUR
[DE84-005596] 11 p1676 N84-20936
WALTON, J. R.
Fracture and contact problems for linearly viscoelastic material
[AD-A135111] 08 p1170 N84-17624
Dynamic, steady-state crack propagation in linear isotropic viscoelastic material
[AD-P003114] 16 p2468 N84-25819
The dynamic steady-state propagation of an anti-plane shear crack in a general linearly viscoelastic layer
[AD-A140980] 18 p2853 N84-28115
WALTON, O. R.
Application of molecular dynamics to macroscopic particles
[DE84-011066] 20 p3186 N84-30244
WALTON, S. R.
Analysis of flares observed during the solar maximum year
[AD-A137922] 11 p1759 N84-21481
WALTON, W. C., JR.
A formulation of rotor-airframe coupling for design analysis of vibrations of helicopter airframes
[NASA-RP-1089] 23 p3760 N84-33832
WALTS, T. L.
On the analysis of thick walled composite material cylindrical shells 15 p2311 N84-24867
WALTZ, D. A.
An error analysis of range-azimuth positioning
[AD-A136775] 10 p1525 N84-19990
WALTZ, D. L.
An expert distributed robotics system with comprehension and learning abilities in the aircraft flight domain
[AD-A139826] 15 p2384 N84-25300
WALTZ, F. A.
Study of Thematic Mapper and Multispectral Scanner data applications 20 p3215 N84-30421
WALTZ, R. E.
Numerical study of electromagnetic fluid turbulence
[DE84-002388] 05 p0750 N84-14923
WALUK, M.
Influence of Ar + CO2 shielding on the composition of a Cr-Mo-V weld
[BLL-CE-TRANS-8000-(9022.09)]
06 p0851 N84-15550
WALZ, H. V.
Status of the SLAC SNOOP diagnostic module for FASTBUS
[DE83-012715] 02 p0290 N84-11903
WAMBSGANSS, M. W.
Tube vibration in industrial-size test heat exchanger (90 deg square layout)
[DE83-011931] 06 p0862 N84-15614
Dynamics of tubes in fluid with tube-baffle interaction
[DE84-001452] 07 p1003 N84-16508
WAMPLER, E. J.
Spectrophotometry of 2 complete samples of flat radio spectrum quasars
[NASA-CR-175343] 07 p1088 N84-17077
Luminosity calibration of low redshift quasars
[NASA-CR-175372] 08 p1242 N84-18120
WAMPLER, F. B.
Disappearance rates of C2(a 3 Pi u) and C2(X 1 Sigma g +) with O2 over the temperature range 298-1300 deg K 21 p3373 N84-31405

WAMPLER, W. R.
Measurement of precipitate nucleation times in molten metals by pulsed surface melting
[DE84-002383] 05 p0656 N84-14311
Energy-resolving carbon resistance probes for plasma edge characterization
[DE84-012235] 20 p3306 N84-30997
WAMSTEKER, W.
An atlas of UV spectra of supernovae
[ESA-SP-1046] 15 p2424 N84-25563
The 1978 - 1984 fading of the Seyfert 1 galaxy F-9
24 p3972 N84-35149
Multifrequency observations of active galactic nuclei
24 p3972 N84-35152
WANCHOO, S.
Study of a pulse width modulated, telemetered, microprocessor based data acquisition system
08 p1114 N84-17247
WANDEL, A. S.
Self-consistent spherical accretion and models of quasars 04 p0620 N84-14088
WANDERS, K.
High speed photography and pulsed laser holography for diagnostic investigations of mixture formation and vibration in reciprocating engines
[DFVLR-MITT-83-18] 12 p1819 N84-21857
WANDERSEE, A.
Diagnosing a PDS microdensitometer
18 p2839 N84-28021
WANDLING, C. R.
Feasibility of thermal NDE methods for Naval thermal spray coatings
[DE84-001463] 06 p0855 N84-15569
WANG, A. J.
Vibration analysis of turbomachinery blades by shell theory 01 p0009 N84-10053
WANG, A. S. D.
Fracture mechanics of sublaminate cracks in composite laminates 01 p0035 N84-10218
Fracture mechanics of sub-laminate cracks
[AD-A130782] 01 p0096 N84-10623
Fracture mechanics of sublaminate cracks in composite laminates
[AD-A139357] 14 p2120 N84-23706
Effects of curing stress on intralaminar cracking in graphite-epoxy laminates 15 p2306 N84-24846
A 3-dimensional finite element analysis of delamination growth in composite laminates. Part 1: The energy methods and case-study problems
[AD-A141248] 18 p2810 N84-27838
WANG, C.
Experiments to study the feasibility of making an X-ray laser at the Novette laser facility
[DE83-015615] 03 p0380 N84-12476
Positive biharmonic functions
04 p0575 N84-13786
Soft X-ray laser experiments at Norvette Laser Facility
[DE84-012594] 21 p3410 N84-31627
The effects of curvature on turbulent mixing layers
[AD-A144250] 24 p3900 N84-34697
Real-time solar magnetograph operation system software design and user's guide
[NASA-TM-86467] 24 p3945 N84-34976
WANG, C. C.
VLSI architectures for computing multiplications and inverses in GF(2-m) 04 p0518 N84-13406
Comments on laser-excited fluorescence of the hydroxyl radical: Relaxation coefficients at atmospheric pressure, appendix 5
[NASA-CR-175442] 11 p1662 N84-20843
Shot noise limited detection of OH using the technique of laser induced fluorescence
[NASA-CR-175433] 11 p1662 N84-20844
WANG, C. H.
Organic azides as jet fuel additives: Synthesis of azides and micro-explosion characteristics of droplets
20 p3144 N84-29963
WANG, C. L.
Develop and test fuel cell powered on-site integrated total energy systems. Phase 3: Full-scale power plant development
[NASA-CR-168294] 04 p0557 N84-13672
Develop and test fuel cell powered on-site integrated total energy system
[NASA-CR-168239] 04 p0557 N84-13673
Develop and test fuel cell powered on-site integrated total energy systems
[NASA-CR-174714] 17 p2723 N84-27329
WANG, C. M. B.
Computation of steady internal flows using integral representation methods with finite series expansions
06 p0833 N84-15418
WANG, C. R.
Turbulence and surface heat transfer near the stagnation point of a circular cylinder in turbulent flow
[NASA-TM-83732] 19 p3021 N84-29157
WANG, C. W.
Engineering calculations for communications satellite systems planning
[NASA-CR-173532] 14 p2113 N84-23662
WANG, C. Y.
Large scale galactic shocks and motions of the cloud medium 04 p0620 N84-14089
WANG, F.
Fiber optics temperature and pressure probe
[DE84-001785] 04 p0605 N84-13990
WANG, F. C.
A survey of electric laser codes
[AD-A132352] 04 p0540 N84-13551
WANG, F. D.
Rapid runway repair program subtask 1.07 - rapid concrete cutting
[AD-A131771] 03 p0338 N84-12195
WANG, F. W.
Polymer Science and Standards Divisions report, 1983
14 p2130 N84-23773
WANG, H. C.
Large scale software development project on the design of a computer network system 24 p3959 N84-35065
WANG, H. F.
An alternative mathematical approach to movement as complex human behavior 24 p3957 N84-35054
WANG, H. M.
Design of Smith control schemes for time-delay systems based on plant step data
[RR-231] 05 p0733 N84-14812
Robustness and sensitivity of Smith predictor controllers for time-delay systems
[RR-238] 13 p1974 N84-22812
The effects of widening time constants and increasing time delay on controller design using approximate models
[RR-239] 13 p1975 N84-22817
WANG, H. T.
A study of multispectral model of land cover
24 p3955 N84-35042
WANG, H. T. M.
Nuclear magnetic resonance gyroscope
[AD-A130102] 01 p0083 N84-10539
WANG, H. Z.
Electromagnetic wave theory and remote sensing
22 p3683 N84-33350
WANG, I.
A statistical method to sense sea surface temperature from the Nimbus-7 scanning multichannel microwave radiometer 12 p1835 N84-21964
WANG, J.
Aircraft remote sensing of soil moisture and hydrologic parameters, Taylor Creek, Florida, and Little River, Georgia, 1979 data report
[E84-10010] 02 p0236 N84-11548
The effects of vegetation and soil hydraulic properties on passive microwave sensing of soil moisture: Data report for the 1982 fiels experiments
[NASA-TM-85106] 07 p1023 N84-16633
L band push broom microwave radiometer: Soil moisture verification and time series experiment Delmarva Peninsula
[E84-10084] 10 p1520 N84-19955
Microwave radiometer experiment of soil moisture sensing at BARC test site during summer 1981
[NASA-TM-86056] 14 p2168 N84-23989
The calculation of the axisymmetrical subsonic viscous flow field of annular diffusers with prewhirling current at the inlets
[AD-A144534] 24 p3901 N84-34702
WANG, J. C.
Laser techniques for extreme-ultraviolet spectroscopy
[DE83-014834] 02 p0227 N84-11486
Compositional segregation in unidirectionally solidified solid solution crystals 06 p0932 N84-16055
Hydration of (BETA)-prime-prime-alumina
[DE83-015696] 07 p1083 N84-17041
WANG, J. J. G.
Influence of microstructure, stress-state and environment on superplastic flow and fracture in glass-ceramics 17 p2677 N84-27050
WANG, J. J. H.
Computation of radiation in stratified media by Fast Fourier Transform (FFT)
[AD-A136647] 13 p1982 N84-22869
WANG, J. R.
Passive microwave sensing of soil moisture content: Soil bulk density and surface roughness
[E84-10019] 02 p0237 N84-11556
WANG, J. S.
Sputtered C-axis inclined piezoelectric films and shear-wave resonators
[DE83-017253] 03 p0455 N84-12997
Piezoelectric shear wave resonator and method of making same
[DE84-014528] 23 p3751 N84-33780
WANG, J. T. S.
Skin-stiffener interface stresses in composite stiffened panels
[NASA-CR-172261] 09 p1330 N84-16681
WANG, L. K.
A modified standard method for the determination of ozone residual concentration by spectrophotometry
[PB84-204684] 21 p3363 N84-31335
WANG, M. L.
Identification of damage in hysteretic structures
[AD-A136342] 09 p1331 N84-16688
Mathematical models for damageable structures
[AD-A136574] 10 p1572 N84-20298
WANG, P. H.
Development of a global model for atmospheric backscatter at CO2 wavelengths
24 p3924 N84-34838
WANG, P. K.
Nuclear magnetic resonance study of the structure of simple molecules adsorbed on metal surfaces: Acetylene on platinum
[DE84-008661] 19 p2996 N84-28981
WANG, P. P.
A study of fuzzy relations and their inverse problem
[AD-P002365] 14 p2194 N84-24156
WANG, P. S.
Surface compatibility studies of potassium perchlorate reaction with pyrotechnic fuels
[DE84-002829] 08 p1140 N84-17412
Potassium perchlorate reaction with pyrotechnic fuels
[DE84-002840] 08 p1140 N84-17413
Automatic finite element generators
21 p3420 N84-31695
WANG, R.
Corrosion-resistant behavior of amorphous and crystallized Fe-Ni-Cr-W alloys
[DE83-016815] 02 p0197 N84-11280
Corrosion behavior of Ni(+)-ion irradiated NiTi alloys
[DE84-003891] 09 p1285 N84-18392
Journal of aeronautical materials (selected articles)
[AD-A140167] 16 p2434 N84-25610
WANG, S.
Relative elevation determination from LANDSAT imagery 03 p0392 N84-12558
Spatial reasoning to determine stream network from LANDSAT imagery
[E84-10063] 06 p0865 N84-15632
Studies of 3-5 compound semiconductors for optical and microwave applications
[AD-A137849] 11 p1744 N84-21381
WANG, S. G.
Acta Mechanica Sinica (selected articles)
[AD-A131871] 03 p0372 N84-12422
WANG, S. J.
The effect of turbulence on the atmospheric transmittance
[AD-A141133] 19 p3004 N84-29039
WANG, S. S.
The mechanics of delamination in fiber-reinforced composite materials. Part 1: Stress singularities and solution structure
[NASA-CR-172269] 04 p0491 N84-13221
The mechanics of delamination in fiber-reinforced composite materials. Part 2: Delamination behavior and fracture mechanics parameters
[NASA-CR-172270] 04 p0491 N84-13222
Fatigue damage and crack growth in random short-fiber reinforced composites 15 p2308 N84-24847
WANG, S. T.
Alternative power supply and dump resistor connections for similar, mutually coupled, superconducting coils
[DE84-012602] 21 p3393 N84-31534
WANG, S. Y.
Modeling and control of an on-board oxygen generation system 23 p3811 N84-34164
WANG, T. G.
Acoustic rotation control
[NASA-CASE-NPO-15689-1] 13 p2039 N84-23233
WANG, T. J.
Some efficient random number generators for micro computers
[AD-A134558] 07 p1053 N84-16815
WANG, W. C.
Effects of approximate radiation treatments used in the climate models on the clear sky thermal radiation flux and its perturbation due to CO2 increase
[DOE/ER-60023/1] 01 p0104 N84-10674
Humidity/cloud-radiation feedback on possible climatic perturbation due to fossil fuel utilization
[DE84-011895] 21 p3448 N84-31874
WANG, W. L.
Ohmic versus rectifying contacts of Au to n-GaAs by ion sputtering 09 p1393 N84-19097
Defect studies in one MeV electron irradiated GaAs and in Al/sub x Ga/sub l-x As P-N junction solar cells
19 p3045 N84-29321

WANG, Y. C.
Enhancing effectiveness of information retrieval systems with relational thesauri 11 p1747 N84-21399
WANG, Y. F.
Measurement of structural damping using the random decrement technique 10 p1514 N84-19915
WANG, Y. H.
Dynamic model for an induction motor and its verification
[DE83-013738] 01 p0074 N84-10484
WANG, Y. S.
Transmission of sound through a cylindrical shell and a light aircraft fuselage 02 p0287 N84-11881
WANG, Y. X.
Ohmic versus rectifying contacts of Au to n-GaAs by ion sputtering 09 p1393 N84-19097
Effect of ion sputtering on the interface chemistry and electrical properties of Au/n-GaAs (100) Schottky contacts 09 p1393 N84-19099
Effect of ion sputtering on interface chemistry and electrical properties of an GaAs (100) Schottky contacts 09 p1393 N84-19100
WANG, Z.
Transactions of the Chinese Solar Energy Society (selected articles)
[AD-A131870] 03 p0403 N84-12637
WANGE, G.
High cost, lack of interest, money for Spacelab launches 05 p0634 N84-14170
WANGLER, T. P.
Lumped-circuit model of four vane RFQ resonator
[DE84-011343] 21 p3387 N84-31497
WANHAINEN, J. S.
Structural design of a vertical antenna boresight 18.3 by 18.3-m planar near-field antenna measurement system
[NASA-TM-83781] 22 p3597 N84-32783
WANHILL, R. J. H.
Material selection and structural design for safety and durability
[NLR-MP-82023-U] 06 p0862 N84-15617
Fatigue and fracture toughness in aluminum
[NLR-MP-82058-U] 10 p1463 N84-19556
WANN, T. C.
Mean upper tropospheric flow over the global tropics, volume 1
[AD-A141227] 18 p2889 N84-28341
Mean upper tropospheric flow over the global tropics, volume 2
[AD-A141484] 19 p3058 N84-29402
WANNAMAKER, B.
A system for receiving and analyzing meteorological satellite data at small meteorological/oceanographic centres or aboard ship
[AD-A137215] 10 p1540 N84-20088
A directory of European, Middle Eastern, and North African coastal ground control points for mapping satellite images
[AD-A142019] 20 p3228 N84-30512
WANNAMAKER, P. E.
Three-dimensional magnetotelluric interpretation 05 p0706 N84-14632
WANNEBERG, G.
The ISPM energetic panel particle composition experiment 09 p1261 N84-18233
WANNER, J. C.
Flight dynamics and aircraft piloting
[ONERA-P-1983-1] 16 p2539 N84-26301
WANT, D.
Lunar sample analysis
[NASA-CR-171772] 11 p1758 N84-21476
WANTLAND, R. H.
Management information system for engineering
[DE84-001655] 05 p0760 N84-14984
WARD, A. O.
CASCADE: A design environment for future avionic systems 06 p0772 N84-15057
WARD, F.
Development of color criteria for advanced displays
[AD-A143246] 22 p3630 N84-33006
WARD, F. C.
Effects of spacecraft reflections on RF interferometer position location accuracy
[NASA-CR-175244] 18 p2828 N84-27955
WARD, J.
Cognitive information processing 22 p3684 N84-33360
WARD, J. F.
Amorphous silicon-carbon films
[DE83-018077] 03 p0347 N84-12259
A low loss quasioptical cavity for a two-stage Free Electron Laser (FEL)
[AD-A133321] 06 p0850 N84-15541
WARD, J. H.
Alignment telescope for Antares
[DE83-014179] 01 p0088 N84-10576
WARD, J. H., JR.
Hypothesis identification in the case of the missing cell
[AD-A134553] 07 p1063 N84-16895
WARD, J. R.
Nonlinear least-squares fitting of first-order rate coefficients comparison between the Gauss-Seidel method and Swain's kore program
[AD-A139080] 13 p2029 N84-23157
WARD, L. C.
Experimental pressure distributions on axisymmetric forebodies at Mach 3 and angles of attack up to 17.5 degrees
[AD-A140321] 16 p2442 N84-25668
WARD, L. R.
Evaluation of installation of Lightweight Doppler Navigation System (LDNS) in Iroquois UH-1H aircraft
[AD-A137815] 11 p1605 N84-20510
WARD, M.
MCG-2-58-22 = Mkn 926. A high luminosity Seyfert galaxy with two distinct broad line components 24 p3972 N84-35150
WARD, M. D.
Interactive flight control system analysis program
[NASA-CR-172352] 19 p2968 N84-28807
WARD, M. E.
High temperature metallic recuperator
[PB84-207869] 22 p3564 N84-32575
WARD, M. G.
Attitude dynamics of the Galileo spacecraft 21 p3352 N84-31262
WARD, R.
Rotorcraft icing technology: An update 06 p0776 N84-15084
WARD, R. A.
Radioactive-ion-beam research at Livermore
[DE83-014872] 02 p0297 N84-11946
WARD, R. C.
Orthogonal schemes for structural optimization
[AD-P002954] 14 p2199 N84-24194
WARD, R. L.
Bound and free moisture in explosives and plastics
[DE84-001402] 04 p0509 N84-13339
WARD, R. N.
Preliminary airworthiness evaluation of the Rutan Aircraft Factory (RAF), Incorporated LONG-EZ airplane
[AD-A140765] 17 p2606 N84-26695
WARD, S. A.
Influence of diluents and inhibitors on detonations
[DE84-006300] 22 p3548 N84-32463
WARD, S. L.
Maze-solving as a performance measurement tool for human operations under time-stress
[AD-A133394] 07 p1050 N84-16799
WARD, S. M.
Water resources data for West Virginia, water year 1982
[PB84-120161] 09 p1340 N84-18754
WARDE, C.
Development and applications of the microchannel spatial light modulator
[AD-A136132] 09 p1323 N84-18645
WARDLE, P. S.
Photoelastic investigation of the stress concentration factor in welded joints
[ND-R-816(R)] 18 p2852 N84-26106
WARDLEY, N.
The use of airborne thematic mapper simulation data for the estimation and mapping of Green Leaf Area Index (GLAI) 03 p0398 N84-12602
WARDROP, A. J.
Panoramic sky monitor (PANSKY)
[AD-A139440] 14 p2176 N84-24035
WARE, A. A.
Heat conduction process in Tokamak hot-ion plasmas
[DE83-014884] 01 p0150 N84-10987
WARE, G. M.
Remotely driven model control surfaces for efficient wind-tunnel operations 01 p0022 N84-10139
WARE, K. D.
Optical emission of exploding-film and wire-initiated discharges
[DE83-014154] 02 p0223 N84-11466
Optically pumped ultraviolet and infrared lasers driven by exploding metal films and wires
[DE83-014169] 02 p0226 N84-11484
WARE, W. H.
Perspectives on oversight management of software development projects
[AD-A133404] 06 p0933 N84-16064
Information systems, security and privacy
[RAND/P-6930] 11 p1747 N84-21402
Information systems: The challenge of the future for the Air Force Communications Command
[AD-A144277] 24 p3969 N84-35129
WARGO, M. J.
Maximization of growth rates during Czochralski pulling 18 p2940 N84-28648
WARINNER, D. K.
Laminarization effects on the dynamics of a disk levitated by incompressible fluid flow
[DE84-003612] 10 p1494 N84-19770
WARK, C. E.
Free stream turbulence and density ratio effects on the interaction region of a jet in a cross flow 11 p1611 N84-20546
WARMBROODT, W.
Hover test of a full-scale hingeless helicopter rotor: Aeroelastic stability, performance and loads data
[NASA-TM-85892] 09 p1255 N84-18190
Fan blade shake test results for the 40- by 80-foot/80- by 120-foot wind tunnel
[NASA-TM-85859] 17 p2618 N84-26753
Hover test of a full-scale hingeless rotor
[NASA-TM-85990] 23 p3692 N84-33401
WARMUTH, L.
Development of new integrated concepts for digital color video processing
[BMFT-FB-T-83-079] 02 p0210 N84-11375
WARNATZ, J.
Stretch effects in plane premixed hydrogen-air flames
[DE84-012035] 21 p3360 N84-31311
WARNE, L. K.
Electromagnetic radiation and scattering in a plasma with azimuthal biasing field 21 p3500 N84-32180
WARNECKE, J.
Torsional vibration measurements on fiber reinforced composites
[MBB-BB-524-82-OE] 05 p0645 N84-14240
The effect of humidity on the thermomechanical behavior of carbon fiber reinforced epoxy resins
[MBB-BB-526-82-OE] 05 p0645 N84-14241
WARNER, A.
Vibration resistant quartz crystal resonators
[AD-A132274] 04 p0526 N84-13459
WARNER, B. E.
Laser window with annular grooves for thermal isolation
[DE84-011114] 21 p3410 N84-31625
WARNER, C.
Satellite observations of a monsoon depression
[NASA-CR-173590] 16 p2528 N84-26232
WARNER, D. N., JR.
Flight-test of the glide-slope track and flare-control laws for an automatic landing system for a powered-lift STOL airplane
[NASA-TP-2128] 04 p0487 N84-13198
Fuel conservative guidance concept for shipboard landing of powered-life aircraft
[NASA-TM-85971] 21 p3344 N84-31215
WARNER, H. D.
Instructor station display for use in T-37 flight simulation training
[AD-A134854] 08 p1106 N84-17191
WARNER, I. M.
A portable, microprocessor controlled, multichannel fluorometer for marine analysis
[AD-A130161] 01 p0083 N84-10542
WARNER, P.
Design fabrication and testing of the BNL radio frequency quadrupole accelerator
[DE84-011915] 21 p3494 N84-32145
WARNER, R. A.
Atomic-beam density determination from laser-induced fluorescence interval distributions
[DE84-000677] 04 p0542 N84-13571
WARNER, T. T.
Utilization of satellite data in mesoscale models of severe weather
[NASA-CR-175122] 06 p0881 N84-15730
WARNICK, C. C.
Hydrologic flow determination for hydropower feasibility analysis
[PB83-219758] 01 p0101 N84-10655
WARNLOF, O. K.
Specifications, tolerances, and other technical requirements for weighing and measuring devices
[PB84-125764] 08 p1163 N84-17572
WARNOCK, J. M.
Estimating unbiased horizontal velocity components from ST/MST radar measurements: A case study 17 p2687 N84-27110
WARNOCK, S.
Infrared nonlinear optics 22 p3682 N84-33346
WARNOCK, T.
CRAY-1 instruction analysis: A comparison of two methods
[DE83-012778] 05 p0730 N84-14794
Monte Carlo calculations of elementary particle properties 10 p1561 N84-20229

WARNSTAEDT, C.
Preparation of a design study for the construction of a 2 million tons/annum commercial scale hydrogenation plant
[BMFT-FB-T-83-135] 03 p0405 N84-12652
WARREN, C.
Fabrication and evaluation of chirped grating lenses in lithium niobate waveguides
[AD-A137103] 10 p1579 N84-20345
WARREN, C. W.
Conceptual design of a robotic loader system for remote missile launchers
[AD-A141270] 18 p2602 N84-27781
WARREN, E. L.
Improved compliant hydrodynamic fluid journal bearing
[NASA-CASE-LEW-13670-1] 13 p1997 N84-22959
WARREN, F. B.
Multispectral linear array visible and shortwave infrared sensors 23 p3781 N84-33977
WARREN, J. L.
ARCHSIM: A proton-synchrotron tracking program, including longitudinal space charge
[DE84-001335] 04 p0599 N84-13952
WARREN, L. C.
Laser induced nitrations of some aliphatic hydrocarbon compounds 21 p3373 N84-31404
WARREN, L. F.
Energy Conversion and Utilization Technologies Program (ECUT) electrocatalysis research
[NASA-CR-173939] 23 p3713 N84-33534
WARREN, R.
Horizontal diplopia thresholds for head-up displays
[AD-A141965] 20 p3129 N84-29872
WARREN, R. W.
High-efficiency free-electron-laser experiments
[DE83-015218] 02 p0227 N84-11487
Electron-beam diagnostics for the Los Alamos free-electron oscillator experiment
[DE83-017230] 03 p0361 N84-12481
The Los Alamos free-electron-laser oscillator experiment: Plans and present status
[DE83-017290] 03 p0382 N84-12485
First operation of the Los Angeles free-electron laser oscillator
[DE84-006024] 11 p1664 N84-20856
WARREN, W. H., JR.
Documentation for the machine-readable version of the Fourth Cambridge Radio Survey Catalogue (4C) (Pilkington, Gower, Scott and Wills 1965, 1967)
[NASA-TM-85456] 02 p0305 N84-12002
Documentation for the machine-readable version of the revised Catalogue of Stellar Rotational Velocities of Uesugi and Fukuda (1982)
[NASA-TM-85457] 02 p0305 N84-12003
Documentation for the machine-readable version of a supplement to the Bright Star catalogue (Hoffleit, Saladyga and Wlasuk 1983)
[NASA-TM-85573] 13 p2070 N84-23415
Documentation for the machine-readable version of the catalogue of 20457 Star positions obtained by photography in the declination zone -48 deg to -54 deg (1950)
[NASA-TM-85572] 13 p2070 N84-23416
Documentation for the machine-readable version of a table of Redshifts for Abell clusters (Sarazin, Rood and Struble 1982)
[NASA-TM-85571] 13 p2070 N84-23417
Documentation for the machine-readable version of the SAO-HD-GC-DM cross index version 1983
[NASA-TM-85570] 13 p2071 N84-23418
Documentation for the machine-readable version of the Smithsonian Astrophysical Observatory Star catalogue (SAO) version 1984
[NASA-TM-85574] 13 p2071 N84-23419
Documentation for the machine-readable version of the general catalogue of 33342 stars for the epoch 1950 (Boss 1937)
[NASA-TM-85568] 13 p2071 N84-23420
Documentation for the machine-readable version of the Survey of the Astrographic Catalogue From 1 to 31 Degrees of Northern Declination (Fresneau 1983)
[NASA-TM-85569] 13 p2071 N84-23421
WARRICK, J. C.
Design and development of an automatically controlled variable-load energy absorber
[AD-A142683] 20 p3128 N84-29866
Development of 2 underseat energy absorbers for application to crashworthy passenger seats for general aviation aircraft
[NASA-CR-158927] 22 p3533 N84-32367
WARSI, N. A.
Dynamic programming algorithm and analyses for nonserial networks, part 2
[AD-A130905] 01 p0123 N84-10798
Space and time analysis in dynamic programming algorithms
[AD-P002963] 14 p2200 N84-24203
WARSI, W. E. K.
Convergence tectonics of the Peru Trench: 8 deg S - 15 deg S latitude 21 p3440 N84-31824
WARSI, Z. U. A.
The generation of three-dimensional body-fitted coordinate systems for viscous flow problems
[AD-A136503] 09 p1314 N84-18588
Generation of three dimensional grids through elliptic differential equations 16 p2491 N84-25983
The importance of dynamically-adaptive grids in the numerical solution of partial differential equations 16 p2492 N84-25984
WARWEL, S.
Oligomerization and butenolysis of olefins by metathesis: Contributions to a chemical use of industrial C4-olefins
[BMFT-FB-T-83-184] 10 p1457 N84-19518
WARWICK, A. I.
A high current heavy ion beam transport experiment at LBL
[DE84-009225] 20 p3294 N84-30912
WASCHL, J. A.
Shock wave modelling and the HULL computer code formation of Mach stems
[MRL-R-907] 16 p2486 N84-25942
WASHBURN, J.
High-resolution electron-microscopy studies of native oxide on silicon
[DE83-014794] 01 p0155 N84-11018
Annealing of interstitial loops in arsenic implanted silicon
[DE84-000384] 05 p0755 N84-14953
High resolution study of the relationship between misfit accommodation and growth of Cu sub 2-x in CdS
[DE84-004636] 11 p1673 N84-20920
High resolution TEM studies of defects near Si-SiO/sub 2 interface
[DE84-006562] 12 p1915 N84-22480
Characterization of single crystal Cu/sub 2S/CdS heterojunctions by hing resolution electron microscopy
[DE84-006761] 13 p2048 N84-23287
WASHBURN, R.
Optimal maneuver detection and estimation in multiobject tracking
[AD-P002899] 13 p1981 N84-22858
WASHOM, B.
Parabolic dish Stirling module 18 p2873 N84-28241
WASHTON-BROWN, R.
Initial human response to nuclear radiation
[AD-A137543] 11 p1694 N84-21054
WASSERBAUER, C.
Velocity and temperature characteristics of two-stream, coplaner jet exhaust plumes
[NASA-TM-83730] 19 p2965 N84-28790
WASSERBAUER, C. A.
Cross spectra between pressure and temperature in a constant-area duct downstream of a hydrogen-fueled combustor
[NASA-TM-83463] 02 p0287 N84-11885
WASSERMAN, A. I.
Comparing software development methodologies for Ada (trade name): A study plan
[PB84-178029] 17 p2755 N84-27491
WASSERMAN, L. H.
Post-mission Viking data anaysis
[NASA-CR-173451] 12 p1776 N84-21587
The occultation of AG+29 deg 398 by 98 Minerva
[NASA-CR-173827] 20 p3319 N84-31066
WASSON, J. T.
Quenched magnetite in cretaceous-tertiary boundary microtekite-like spheroid 11 p1755 N84-21459
Formation of Meteoritic chonrules by lightning 11 p1756 N84-21462
WASSON, W.
Photoacoustic Absorption Spectroscopy (PAS) measurements
[AD-A136591] 09 p1388 N84-19067
WATANABE, M.
Performance characteristics of VAD single mode fibers in mass production basis 11 p1725 N84-21254
WATANABE, S.
Adsorbent phosphates
[NASA-TM-76999] 09 p1277 N84-18339
WATANABE, T.
Atomic processes in hot dense plasma
[IPPJ-AM-31] 03 p0443 N84-12911
Synthesis of multivalued logic circuits using hyperplanes
[AD-P002335] 14 p2190 N84-24126
WATANABE, Y.
A study on sound guidance for evacuation: Effect of megaphoned evacuation guidance in smoke 04 p0512 N84-13356
WATARI, T.
Conceptual design of the RFC reactor
[IPPJ-659] 11 p1733 N84-21304
Ion Bernstein wave heating experiment on JIPPT-II-U device
[IPPJ-662] 11 p1734 N84-21305
Impurity origin during ICRF heating in JIPP T-IIU Tokamak
[IPPJ-682] 23 p3827 N84-34271
WATERBURY, S. S.
Optical analysis of Cassegrainian point focus concentrators 18 p2872 N84-28229
WATERMAN, A.
Cylindrical microstrip array: C-band beacon antenna array with 48 rectangular radiating elements fed in-phase
[AD-A135144] 08 p1144 N84-17442
Antenna performance verification at launch site. A feasibility study on preflight performance testing of stripline slot arrays mounted on a rocket
[AD-A143266] 22 p3577 N84-32653
WATERMAN, A. T.
Techniques for measurement of vertical and horizontal velocities: Monostatic versus bistatic measurements 17 p2686 N84-27105
WATERMAN, T. E.
Fire management-suppression system-concepts relating to aircraft cabin fire safety
[FAA-CT-82-134] 05 p0628 N84-14130
WATERS, M.
Bioassay of particulate organic matter from ambient air
[PB83-239731] 02 p0267 N84-11754
WATERS, M. K.
Microcomputer networking: A CP/M-Based application
[AD-A134124] 05 p0718 N84-14707
WATERS, W. J.
Multicolor printing plate joining
[NASA-CASE-LEW-13598-1] 13 p1992 N84-22930
WATKINS, B. J.
The economics of data acquisition computers for ST and MST radars 17 p2683 N84-27084
Capabilities and limitations of the Sondrestrom radar for ST observations 17 p2691 N84-27139
WATKINS, D. E.
High-repetition-rate amplification of 16 (SIGMA) micron radiation
[DE83-012782] 01 p0087 N84-10569
WATKINS, E. T.
Ka-band Ga-As FET noise receiver/device development
[NASA-CR-175176] 10 p1484 N84-19705
WATKINS, J. S.
Panel 1A: Geologic studies related to oil and gas development in the EEZ 18 p2866 N84-28194
WATKINS, V. E., JR.
Structural pressure sensitive silicone adhesives
[NASA-CASE-LAR-13270-1] 22 p3558 N84-32532
WATKINS, W. B.
Dynamic gas temperature measurement system, volume 1
[NASA-CR-168267-VOL-1] 07 p1007 N84-16529
WATKINSON, P. S.
Techniques and instrumentation for the measurement of transient sound energy flux
[ISVR-TR-122A] 15 p2404 N84-25427
WATSON, A. B.
Uniform apparent contrast noise: A picture of the noise of the visual contrast detection system
[NASA-TM-85867] 19 p3067 N84-29456
WATSON, C. F.
An analysis of prop-fan/airframe aerodynamic integration
[NASA-CR-152186] 10 p1419 N84-19281
WATSON, D. G.
Types of technical content of data 07 p1086 N84-17061
WATSON, D. M.
A flight-test evaluation of a go-around control system for a twin engine powered-lift STOL airplane
[NASA-TM-84408] 02 p0181 N84-11178
Flight-test of the glide-slope track and flare-control laws for an automatic landing system for a powered-lift STOL airplane
[NASA-TP-2126] 04 p0487 N84-13198
Solid-State Division
[DE84-000296] 04 p0613 N84-14045
Far-IR spectroscopy of the galactic center: Neutral and ionized gas in the central 10 pc of the galaxy
[NASA-CR-166510] 13 p2070 N84-23411
Shock waves and mass outflow in the Orion molecular cloud: Observations of far-infrared emission lines of carbon monoxide, hydroxyl and ammonia 13 p2071 N84-23423
WATSON, D. S.
Value of flow calibration for decision making in infiltration/inflow studies
[PB83-259739] 05 p0682 N84-14483

WATSON, F. M.
Detection of shocked atomic gas in the Kleinmann-Low nebula
[NASA-TM-85967] 16 p2574 N84-26523
WATSON, G.
Feasibility of using Photovoltaic Power Systems (PPS) with High Pressure Sodium (HPS) lamps for magazine entry lighting
[AD-A140146] 16 p2519 N84-26169
WATSON, G. W., JR.
Knowledge base management for model management systems
[AD-A132211] 04 p0615 N84-14062
WATSON, J. D.
Preliminary design of a reuseable PPMHD (Pulsed Plasma MHD) power supply test bed facility
[AD-A144147] 24 p3965 N84-35108
WATSON, J. G.
Rough surface scattering via the smoothing method
[AD-A137025] 10 p1575 N84-20323
Reflection, scattering, and absorption of acoustic waves by rough surfaces
[AD-A140523] 16 p2555 N84-26390
WATSON, J. J.
Measured transonic unsteady pressures on an energy efficient transport wing with oscillating control surfaces
18 p2783 N84-27663
Subsonic and transonic unsteady- and steady-pressure measurements on a rectangular supercritical wing oscillated in pitch
[NASA-TM-85765] 22 p3530 N84-32348
WATSON, J. M.
Free electron lasers and related topics
[DE84-011332] 20 p3193 N84-30277
WATSON, J. W.
Deposition stress effects on thermal barrier coating burner rig life
[NASA-TM-83670] 16 p2470 N84-25830
WATSON, K.
Application of Heat Capacity Mapping Mission data to regional geologic analysis for mineral and energy resource evaluation
[E84-10078] 07 p1021 N84-16625
WATSON, K. M.
Marine environmental acoustics
[AD-A133245] 06 p0909 N84-15902
WATSON, R. L.
X-ray emission in heavy-ion collisions
[DE83-008776] 01 p0144 N84-10946
WATSON, R. W.
Special or general purpose end-to-end transport mechanisms in distributed systems: One view
[DE84-008297] 15 p2395 N84-25367
WATSON, S. A.
A computer program for estimating the aerodynamic characteristics of NACA 16-series airfoils
[NASA-TM-85896] 02 p0174 N84-11145
WATSON, W. H.
A twisted P-C double bond: Synthesis and structure of a (Methylene)phosphine Fe-CO-4 complex
[AD-A141502] 19 p2984 N84-28907
Synthesis and structure of sulfur derivatives of a (methylene)phosphine
[AD-A141513] 19 p2984 N84-28909
WATSON, W. R.
A new method for determining acoustic-liner admittance in a rectangular duct with grazing flow from experimental data
[NASA-TP-2310] 17 p2762 N84-27543
WATT, R. D.
Cryogenic testing of the TPC superconducting solenoid
[DE84-000528] 04 p0527 N84-13467
Forced two-phase cooling of the TPC superconducting solenoid
[DE83-017749] 04 p0613 N84-14049
WATT, R. G.
Recent results from the ZT-40M reversed-field pinch program
[DE83-014149] 01 p0151 N84-10993
Observations of ramped current operation in ZT-40M
[DE84-015076] 23 p3829 N84-34286
WATT, T. R.
Utilization of Ada as a program design language
[AD-A132244] 04 p0580 N84-13830
WATT, W.
NASA TM processing system description and status
10 p1524 N84-19979
WATTERS, D. M.
Crash Position Indicator/Crash Survivable Flight Data Recorder ejectable versus nonejectable
[AD-A132329] 04 p0484 N84-13184
The silicon AIDS (Airborne Integrated Data Systems)
17 p2587 N84-26583
Crash Position Indicator/Crash Survival Flight Data Recorder (CPI/CSFDR): Ejectable versus nonejectable
17 p2587 N84-26584
WATTERS, E. R.
Training acquisition personnel through a local college
[AD-P002766] 13 p2052 N84-23313
WATTERS, T. R.
Compressional features in the Tharsis Region of Mars: Geographic 13 p2090 N84-23538
Compressional features in the Tharsis Region of Mars: Orientations and Timing of Deformation
13 p2090 N84-23539
WATTERSON, D. M.
Intracellular calcium receptors: Calmodulin and related proteins 02 p0263 N84-11724
WATTERSON, K. B.
Bank-to-Turn cruise missile terminal guidance and control law comparison
[AD-A132595] 05 p0629 N84-14136
WATTERSON, R.
Lower hybrid experiments at the 1 MW level on Alcator C: Heating and current drive
[DE84-010586] 20 p3304 N84-30981
WATTLE, B. J.
An evaluation of marine fog forecast concepts and a preliminary design for a marine obscuration forecast system
[AD-A136379] 09 p1348 N84-18808
The feasibility of using precursor aerosol parameters to predict visibility in fog and haze
[AD-A137141] 10 p1539 N84-20084
The role of vegetation in the low-level water budget in fog
[AD-A139099] 14 p2179 N84-24051
WATTON, R.
Sensor head performance, responsivity and NETD using pyroelectric linear arrays
[RSRE-MEMO-3608] 09 p1317 N84-18605
WATTS, B. M.
Data acquisition and processing in sea-level test beds
16 p2453 N84-25730
WATTS, D. J.
Optimized bolted joint
[NASA-CASE-LAR-13250-1] 11 p1664 N84-20859
WATTS, H. A.
Step size control in ODE solvers
[DE84-006391] 12 p1895 N84-22345
WATTS, J. A.
Carbon in live vegetation of major world ecosystems
[DE83-015328] 01 p0101 N84-10654
Inventory of numeric data for carbon dioxide research
[DE83-017571] 03 p0406 N84-12657
Inventory of numeric data for carbon dioxide research, revision 1
[DE84-013683] 21 p3449 N84-31881
WATTS, K. D.
Development of an engineering-scale nuclear test of a solid-breeder fusion-blanket concept
[DE83-016861] 01 p0151 N84-10992
WATTS, M. E.
In-flight acoustic testing techniques using the YO-8A Acoustic Research Aircraft
[NASA-TM-85895] 10 p1427 N84-19334
WATTS, R. J.
System for the removal of airborne contaminants from aircraft environmental control systems
[AD-D011172] 23 p3727 N84-33615
WAUGH, J. D.
Missile component repair while wearing NBC protective clothing
[AD-A137315] 10 p1553 N84-20180
WAUGH, K.
Targeting geothermal exploration sites in the Mount St. Helens area using solid mercury surveys
[DE84-012547] 20 p3229 N84-30519
WAUTERS, D. K.
Intumescent reaction mechanisms: An analytic model
[AD-A132586] 04 p0491 N84-13225
WAX, M.
Determining the number of signals by information theoretic criteria
[AD-A142748] 21 p3386 N84-31486
Spatio-temporal spectral analysis by eigenstructure methods
[AD-A144361] 24 p3951 N84-35017
WAYLAND, J. R.
Examination of frontal development during a dry forward combustion
[DE84-008304] 15 p2288 N84-24726
Diagnostic tools for mapping California EOR processes
[DE84-006232] 15 p2359 N84-25157
WAYLAND, R. J.
Classification of coastal environments, shorezone profile dynamics
[AD-A139947] 15 p2373 N84-25240
WAYMON, G. R.
Testing for severe aerodynamically induced vibration environments 10 p1513 N84-19905
WEALTHY, H. D.
Another look at the use of complex sources for the generation of bodies of revolution in incompressible flow
[CAR-8412] 21 p3398 N84-31555
WEAR, J. D.
Combustion gas properties of various fuels of interest to gas turbine engineers
[NASA-TM-83682] 15 p2261 N84-24584
WEARY, D. P.
Ground test challenges in the development of the Space Shuttle orbiter auxiliary power unit
24 p3862 N84-34478
WEATHERALL, J.
Turbulent heating in solar cosmic ray theory
[NASA-TM-85074] 06 p0940 N84-16108
WEATHERFORD, W. D., JR.
Research on fire-resistant diesel fuel flammability mitigation mechanisms
[AD-A130743] 01 p0052 N84-10337
WEAVER, D.
Interactive parallel processor for data analysis
[DE84-004311] 10 p1564 N84-20250
WEAVER, E. E.
Antenna pattern measurements to characterize the out-of-band behavior of reflector antennas
[AD-A136199] 09 p1304 N84-18525
WEAVER, F. J.
Transport properties of polycrystalline Ni3Al
[DE84-001969] 05 p0656 N84-14313
Development of advanced thermal insulation for appliances
[DE84-013132] 22 p3594 N84-32763
WEAVER, H. A.
Vibrational and rotational excitation of CO in comets. Part 1: Non-equilibrium calculations. Part 2: Results of the calculation for standard bright comet, comet Iras-Araki-Alcock and comet Halley
[NASA-TM-86122] 16 p2579 N84-26545
WEAVER, H. J.
Frequency domain approach to structural analysis
[DE84-005110] 11 p1669 N84-20689
Modal parameter estimation via shaker versus speaker excitation
[DE84-012897] 21 p3345 N84-31223
Dynamic testing of NOVA laser structural systems. The north side of Spaceframe Tower
[DE84-014830] 22 p3602 N84-32818
WEAVER, J. F.
Multi-scale analyses of meteorological conditions affecting Pan American World Airways flight 759
[PB83-222562] 01 p0006 N84-10040
WEAVER, J. H.
Studies of silicon refractory metal interfaces: Photoemission study of interface formation and compound nucleation
[AD-A135340] 08 p1131 N84-17358
WEAVER, J. N.
Improving the phase stability of the SLAC RF driveline network for SLC operation
[DE83-012714] 01 p0143 N84-10943
WEAVER, M. J.
Studies of the correlation of electrode kinetics with molecular structure
[AD-A131704] 03 p0433 N84-12838
Intramolecular electron transfer at metal surfaces. 1. Relative energetics of some corresponding outer- and inner-sphere pathways involving halide and pseudohalide bridging ligands
[AD-A139021] 13 p1956 N84-22716
Electron-transfer kinetics of redox centers anchored to metal surfaces: Weak- versus strong-overlap reaction pathways
[AD-A139043] 13 p1956 N84-22718
Observation of surface-enhanced Raman scattering for transition-metal hexaammine cations at the outer Helmholtz plane: Implications for enhancement mechanisms at electrochemical interfaces
[AD-A139045] 13 p1956 N84-22719
Intramolecular electron transfer at metal surfaces. 2: Comparisons of ligand-bridged CR(3) reduction kinetics at silver versus mercury electrodes
[AD-A139047] 13 p1956 N84-22720
Surface-enhanced Raman spectroscopy of electrochemically characterized interfaces. Relations between Raman scattering intensity and surface coverage for simple anionic adsorbates
[AD-A139054] 13 p1957 N84-22721
Utility of surface reaction entropies for examining reactant-solvent interactions at electrochemical interfaces. Ferricinium-ferrocene attached to platinum electrodes
[AD-A139055] 13 p1957 N84-22722

A method for evaluating the surface concentrations of 2 like-charged ions simultaneously adsorbed at an electrode-solution interface
[AD-A139074] 13 p1957 N84-22724
The influence of specific reactant-solvent interactions on intrinsic activation entropies for outer-sphere electron transfer reactions
[AD-A139081] 13 p1957 N84-22725
Intramolecular electron transfer at metal surfaces. 3: Influence of bond conjugation on reduction kinetics of Cobalt (3) anchored to metal surfaces via thiophenecarboxylate ligands
[AD-A139066] 13 p2041 N84-23242
An experimental estimate of the electron-tunneling distance for some outer-sphere electrochemical reactions
[AD-A139049] 13 p2047 N84-23284
Solvent, ligand, and ionic charge effects on reaction entropies for simple transition-metal redox couples
[AD-A142374] 20 p3147 N84-29984
The prediction of electrochemical reactivities from contemporary theory: Some comparisons with experiment
[AD-A142406] 20 p3147 N84-29985
Surface-enhanced Raman spectroscopy of electrochemically characterized interfaces. Transition-metal isothiocyanate adsorbates at silver adsorbates
[AD-A142407] 20 p3148 N84-29986
The reliability of standard rate constants for rapid electrochemical reactions
[AD-A142445] 20 p3148 N84-29989
Electrochemical activation parameters for surface-attached reactants evaluation of unimolecular frequency factors for representative ligand-bridged reactions
[AD-A142483] 20 p3148 N84-29990

WEAVER, P. L.
The forest resources of Puerto Rico, Forest Service resource bulletin
[PB83-249995] 04 p0556 N84-13685

WEAVER, P. P.
King's Trough Flank: Geological and geophysical investigations of its suitability for high-level radioactive waste disposal
[IOS-166] 20 p3299 N84-30950

WEAVER, R. L.
Pilot study and evaluation of a SMMR-derived sea ice data base
[NASA-CR-175255] 22 p3614 N84-32896

WEAVER, R. W.
Field test experience 12 p1838 N84-21984

WEAVER, T. A.
Nucleosynthesis in stellar explosions
[DE84-002787] 07 p1090 N84-17087

WEAVER, W. R.
Solar pumped laser
[NASA-CASE-LAR-12870-1] 07 p1009 N84-16542
Threshold kinetics of a solar-simulator-pumped iodine laser
[NASA-TP-2241] 08 p1163 N84-17575

WEBB, A. W.
Structural studies at elevated pressure and reduced temperatures using synchrotron radiation: Application to Ce.8La.1Th.1
[DE84-001793] 06 p0924 N84-16007

WEBB, D. C.
Analysis of the performance of the free electron bolometer
[AD-A134139] 07 p1008 N84-16533

WEBB, D. F.
A study of coronal precursors of solar flares
[AD-A137163] 11 p1759 N84-21482

WEBB, G. S. M.
A preliminary assessment of observer expectations in target detection tasks
[MRL-R-893] 05 p0715 N84-14682

WEBB, J.
Validation of digital systems in avionics and flight control applications handbook, volume 1
[AD-A133222] 06 p0788 N84-15150
Adaptation of two-dimensional transonic analysis code, TSFOIL, for use in modeling adaptive wall test sections 08 p1238 N84-18089

WEBB, J. D.
Polymer degradation on reflecting metal films: Fourier transform infrared (FTIR) reflection-absorbance studies
[DE83-012129] 03 p0404 N84-12641
An experimental approach to evaluating environmental degradation mechanisms in bisphenol-A polycarbonate films on metallic substrates
[SERI/TR-255-1602] 24 p3917 N84-34798

WEBB, J. T.
Stability of rat brain glutamine synthetase to oxygen toxicity (oxygen at high pressure)
[AD-A131049] 01 p0112 N84-10725

WEBB, K.
Studies in fin-line antenna design for phased array applications
[AD-A135255] 06 p1144 N84-17444

WEBB, M.
Some considerations of the efficiency of sewn lap joints in a nylon webbing
[RAE-TR-83009] 03 p0355 N84-12310

WEBB, R.
A free-form modal survey suspension system for large test articles 10 p1513 N84-19907

WEBB, R. C.
Cyclooconverter on the all-electric airplane 01 p0011 N84-10089
High energy physics research at Texas Agriculture and Mining University
[DE84-011616] 22 p3655 N84-33167

WEBB, R. E.
Gypsy moths and American dog ticks: Space partners 18 p2800 N84-27768

WEBB, T., III
Global temperature patterns 6000 years ago
[DE84-004209] 10 p1537 N84-20072

WEBB, W.
The LANDSAT-4 program: An overview 20 p3205 N84-30360

WEBB, W. E.
Ground penetrating radar: A review of its application in the mining industry, information circular 1984
[PB84-178292] 20 p3176 N84-30172

WEBBER, R. G.
A polytetrafluorethylene insulated cable for high temperature oxygen aerospace applications 11 p1723 N84-21238

WEBBER, W. R.
Temporal variations of the anomalous oxygen component 03 p0471 N84-13099
Voyager measurements of the energy spectrum, charge composition, and long term temporal variations of the anomalous components in 1977-1982 03 p0471 N84-13100

WEBER, A. L.
Nonenzymatic formation of energy-rich lactoyl and glyceroyl thioesters from glyceraldehyde and a thiol
[NASA-CR-173633] 17 p2617 N84-26748

WEBER, C. L.
Research Trends in Military Communications
[AD-A138229] 13 p1975 N84-22821

WEBER, D.
Nuclear particle detection using a track-recording solid 18 p2800 N84-27769

WEBER, D. C.
Novel antistatic packaging materials
[AD-D011069] 19 p3000 N84-29012

WEBER, E.
Study on the baffle system of the sounding rocket payload INTER-ZODIAK
[BMFT-FB-W-83-015] 07 p0962 N84-16239
Experimental investigation concerning the feasibility of electrostatic precipitators at high pressures and temperatures
[BMFT-FB-T-83-201] 08 p1183 N84-17704
Investigations of the feasibility of fabric filters at high temperatures and pressures for an energy saving method of gas purification
[BMFT-FB-T-83-292] 15 p2286 N84-24718

WEBER, E. J.
F-layer ionization patches in the polar cap
[AD-A138633] 13 p2011 N84-23044

WEBER, G.
A light assembly system of sections adaptable to sound or heat insulation, for numerous applications
[BMFT-FB-T-83-085] 02 p0288 N84-11889
Computation of a high resolution European Gravimetric Geoid (EGG 1) 17 p2727 N84-27356

WEBER, H.
Perspectives on European satellite communications 23 p3732 N84-33659
Generation of ultra-short laser pulses in the visible and near infrared for a spaceborne laser ranging transmitter 24 p3906 N84-34740

WEBER, H. W.
Spallation and 14-MeV neutron irradiation of stabilized NbTi superconductors
[DE83-017973] 03 p0368 N84-12394

WEBER, J.
Coherent scattering of light into high frequency radiowaves
[AD-A130691] 01 p0066 N84-10431
New method in elementary particle detection
[AD-A131238] 01 p0142 N84-10932
New method in elementary particle detection
[AD-A144057] 23 p3822 N84-34240

WEBER, J. M.
A mathematical simulation model of the CH-47B helicopter, volume 2
[NASA-TM-84351] 22 p3535 N84-32380

WEBER, M.
Decision support for innovation management: Application to the lighting industry
[IIASA-RR-83-29] 15 p2416 N84-25503
Nuclear particle detection using a track-recording solid 18 p2800 N84-27769

WEBER, O.
Analysing redundant flight path data on two Airbus A-300 aircraft 17 p2586 N84-26577

WEBER, R.
Perturbations on the reception characteristics of antennas on Diego Garcia due to the presence of a GEODSS site
[AD-A136107] 09 p1303 N84-18520
Optical detection loss due to air-borne salts on Diego Garcia
[AD-A136120] 09 p1346 N84-18792

WEBER, T.
Secondary power systems for fighter aircraft experiences today and requirements for a next generation 03 p0334 N84-12171

WEBER, W.
The Pikwitonei granulite domain: A lower crustal level along the Churchill-Superior boundary in central Manitoba 11 p1680 N84-20967
Report on the International Cartographic Association Seminar on computer assisted mapping and charting 19 p3040 N84-29285
Automation-associated revision conception of the general topographic map 1 : 200,000 using raster data 19 p3040 N84-29291
A data management system for digital raster maps 19 p3041 N84-29292
Forest generalization by digital raster data processing 20 p3226 N84-30501
An investigation of the reproduction of the general topographic map 1:200,000 in shortened scale with a digital raster data processing system 20 p3227 N84-30505
Suggestion for a cartographic pattern recognition system using digital raster data processing methods 20 p3227 N84-30509

WEBSTER, C. E.
Ragone characteristics of aqueous mobile batteries and their application in projecting ranges of electric vehicles
[DE83-014701] 03 p0404 N84-12642
Testing and evaluation of EV-1300 lead-acid modules for the hybrid vehicle application
[DE84-006718] 14 p2249 N84-24510

WEBSTER, C. R.
Discharge cell for optogalvanic spectroscopy having orthogonal relationship between the probe laser and discharge axis
[NASA-CASE-NPO-16271-1] 06 p0849 N84-15537

WEBSTER, C. W.
Backfire bifilar helix antenna
[AD-D011118] 22 p3587 N84-32719

WEBSTER, F.
An ocean climate research strategy
[PB84-194828] 21 p3452 N84-31902

WEBSTER, H. A., III
Visible pyrotechnic flare spectroscopy using vidicons
[AD-A140283] 16 p2474 N84-25857
Visible spectra of standard Navy colored flares
[AD-A140342] 16 p2474 N84-25858

WEBSTER, R.
A study of MX environmental management information system (MXEMIS) needs
[AD-A139025] 13 p2067 N84-23404

WEBSTER, R. D.
Interactive Hazardous Materials Information System (HMIS): Description and assessment
[AD-A138329] 12 p1919 N84-22500

WEBSTER, R. T.
X33 cut quartz for temperature compensated saw devices
[AD-D011200] 24 p3903 N84-34713

WEBSTER, T.
Thermal effects resulting from occupant behavior and building operation 16 p2515 N84-26143

WEBSTER, T. L.
The predicted impact of linear roof apertures on the energy performance of office buildings 16 p2514 N84-26133

WEBSTER, W., JR.
Observations of the Earth's magnetic field from the Space Station: Measurement at high and extremely low altitude using Space Station-controlled free-flyers
[NASA-TM-86119] 16 p2521 N84-26183

WECHARATANA, M.
Fracture toughness of fiber reinforced concrete
[AD-A133809] 05 p0692 N84-14547

WECK, G.
Concept of a secure information system consisting of the components operating system, data base, dialogue system, and applications
[BMFT-FB-DV-83-005] 12 p1920 N84-22508
WEDDING, R. M.
A fast, programmable hardware architecture for spaceborne SAR processing 07 p0989 N84-16409
WEDEN, G. J.
Summary of drive-train component technology in helicopters
[NASA-TM-83726] 20 p3195 N84-30294
WEDEVEN, L. D.
Surface topography-connections between lubrication and failure initiation 15 p2316 N84-24898
WEDLAKE, R. J.
The current status of diamond and cubic boron nitride composites 09 p1292 N84-18441
WEED, R. A.
Experimental stress analysis and fatigue tests of five 12-in NPS ANSI Standard B169 tees
[DE84-010280] 18 p2853 N84-28117
WEEK, R. D.
A self-contained captive trajectory system for a blowdown wind tunnel 14 p2099 N84-23596
WEEKS, G. E.
Finite element analysis of a deployable space structure 06 p0932 N84-16056
WEEKS, W. F.
Spaceborne SAR and sea ice 07 p0990 N84-16412
Statistical aspects of ice gouging on the Alaskan Shelf of the Beaufort Sea
[AD-A134428] 08 p1196 N84-17798
Mechanical properties of multi-year sea ice. Phase 1: Test results
[AD-A144132] 24 p3935 N84-34907
WEERTMAN, J. R.
Investigation of microstructural changes in ferritic stainless steels caused by high-temperature deformation
[DE83-015331] 01 p0046 N84-10298
Synthesis and properties of elevated temperature P/M aluminum alloys
[AD-A135956] 09 p1283 N84-18379
Microstructural evaluation of a ferritic stainless steel by small angle neutron scattering
[DE84-009487] 19 p2995 N84-28980
WEFEL, J. P.
Solar flares and magnetospheric particles: Investigations based upon the ONR-602 experiment
[AD-A143144] 21 p3526 N84-32336
WEGLEY, H. L.
Test application of a semi-objective approach to wind forecasting for wind-energy applications
[DE83-016641] 02 p0256 N84-11676
Large HAWT (Horizontal-Axis Wind Turbine) wake measurement and analysis
[DE84-013269] 22 p3596 N84-32772
Verification of hourly forecasts of wind turbine power output
[PNL-4900] 22 p3616 N84-32914
WEGMANN, H. D.
Development and prototype production of photovoltaic energy supply systems
[BMFT-FB-T-83-238] 10 p1531 N84-20025
WEGMANN, H. M.
Circadian rhythms and sustained operations 11 p1697 N84-21067
WEGMENN, H. M.
Models for the evaluation of work loads of crews during long distance flight 17 p2744 N84-27422
WEGNER, G. A.
Observations of the ultraviolet spectra of helium (DB) white dwarfs and a study of the ultraviolet spectra of white dwarfs containing carbon
[NASA-CR-173889] 22 p3677 N84-33310
WEGNER, H.
Development of a device for evaluation of interferograms
[BMFT-FB-T-84-097] 21 p3407 N84-31613
WEGNER, H. E.
Improved four-stage accel-decel production of low-energy stripped heavy ions
[DE83-005791] 06 p0910 N84-15908
WEGSCHEIDER, J.
Satellite aided navigation (INNAVSAT)
[BMFT-FB-W-84-003] 19 p2962 N84-28772
WEHNER, D. R.
Stepped frequency radar target imaging
[AD-D011187] 24 p3893 N84-34652
WEHNER, G. K.
Sputtering of multicomponent materials 06 p0816 N84-15312
WEHNER, H.
On the genesis of hydrocarbons in the German Alpine foreland
[BMFT-FB-T-83-103] 02 p0250 N84-11637
WEHR, A.
Design criteria for space based laser ranging systems 24 p3908 N84-34751
WEHR, R. F.
Development of a 3-d microscale topography system, phase 2
[AD-A137872] 11 p1633 N84-20678
WEHRING, B. W.
TFTR alpha extraction and measurement project
[DE83-018120] 03 p0448 N84-12947
WEHRY, E. L.
Matrix-isolation photoacoustic spectroscopy
[DE84-001967] 05 p0651 N84-14277
WEI-NAN, G.
The new method of implementation for ternary logic system
[AD-P002332] 14 p2190 N84-24123
WEI, B. C.
Bias in nonlinear regression
[AD-A139239] 14 p2218 N84-24308
WEI, G. C.
Transformation toughened and whisker reinforced ceramics
[DE84-003281] 07 p0979 N84-16346
Improvements in mechanical properties in SiC by the addition of TiC particles
[DE84-012352] 21 p3358 N84-31297
Method for forming fibrous silicon carbide insulating material
[DE84-014658] 22 p3545 N84-32442
WEI, I. C.
Prediction of multicomponent liquid-mixture viscosity from binary thermodynamic data
[DE83-011934] 04 p0536 N84-13524
WEI, R. P.
Development of fatigue and crack propagation design and analysis methodology in a corrosive environment for typical mechanically-fastened joints. Volume 1: Phase I documentation
[AD-A136414] 09 p1331 N84-18691
Development of fatigue and crack propagation design and analysis methodology in a corrosive environment for typical mechanically-fastened joints. Volume 2: State-of-the-art assessment
[AD-A136415] 09 p1331 N84-18692
Quasi-cleavage and martensite habit plane
[AD-A137378] 10 p1459 N84-19527
Crack paths and hydrogen-assisted crack growth response in AISI 4340 steel
[AD-A137388] 10 p1459 N84-19528
WEI, W.
Crack kinetics of the nickel-hydrogen system 21 p3416 N84-31665
WEICHEL, J. F.
The development of a bidirectional multi-speed impact model of the adult human thorax 16 p2535 N84-26273
WEICHEL, R. L.
Techniques to extend ozonesonde temperature data to the mesopause
[DE84-002749] 05 p0705 N84-14623
WEIDMAN, R. S.
Properties of 3-dimensional energetic solids and molecular crystals
[AD-A137927] 11 p1744 N84-21382
WEIDNER, E. H.
Numerical predictions of residence times behind a rearward facing step with transverse injection 13 p1951 N84-22687
WEIGAND, B. L.
Development of a qualification standard for adhesives used in hybrid microcircuits
[NASA-CR-161978] 18 p2832 N84-27979
WEIGEL, P. H.
Formation and remodeling of the early wound matrix
[AD-A134576] 08 p1201 N84-17833
WEIGMANN, W.
Advances in GaAs bistable optical devices 14 p2233 N84-24394
WEIHL, W. E.
Specification and implementation of atomic data types
[AD-A141823] 19 p3078 N84-29529
WEIKERT, C.
Preliminary field tests for detecting flying targets in front of a land background
[FOA-C-56033-H2] 08 p1204 N84-17847
Detection of flying targets in front of a land background: Laboratory tests
[FOA-C-56034-H2] 08 p1204 N84-17848
Detection of flying targets in front of a land background: Field tests
[FOA-C-56035-H2] 08 p1204 N84-17849
WEIKLE, D. C.
Earth coverage corrugated horns (44.5 GHz and 20.7 GHz)
[AD-A133241] 06 p0823 N84-15366
Earth coverage corrugated horns (44.5 GHz and 20.7 GHz)
[AD-P003410] 19 p3015 N84-29114
WEIKLE, D. H.
Optimization of fringe-type laser anemometers for turbine engine component testing
[NASA-TM-83658] 15 p2335 N84-25019
WEIL, B.
Observation of nonlinear phenomena 10 p1584 N84-20385
WEIL, C.
Radiofrequency radiation exposure for bio-effects research at the Health Effects Research Laboratory, Research Triangle Park, North Carolina
[PB83-229591] 01 p0115 N84-10747
WEIL, D. A.
Positive ion-molecule reactions in OCS/hydrocarbon mixtures
[AD-A132350] 04 p0493 N84-13237
WEIL, J. V.
Increased metabolism and dead space as components of ventilation at high altitude
[AD-A130827] 06 p0887 N84-15766
Variable inhibition by falling CO2 of hypoxic ventilatory response in man
[AD-A130858] 06 p0887 N84-15768
WEIL, R.
Pulsed electrodeposition of amorphous and composite alloys
[AD-A132848] 05 p0646 N84-14246
WEILAND, C.
Vortex flow simulations past wings using the Euler-equations 03 p0324 N84-12115
Iterative solution of the three-dimensional nonlinear potential equation of the gas dynamcis for ultrasonic flows 16 p2541 N84-26310
WEILL, G.
Nuclear Magnetic Resonance (NMR) study of glass fiber-epoxy resin composites in the solid state 21 p3358 N84-31299
WEILMUENSTER, K. J.
Shuttle flight pressure instrumentation: Experience and lessons for the future 01 p0026 N84-10167
WEIMER, D.
Preliminary experiments on phase conjugation for flow visualization
[NASA-TM-83766] 21 p3498 N84-32169
WEINBERG, B. C.
Solution of 3-dimensional time-dependent viscous flows. Part 2: Development of the computer code
[NASA-CR-166565-PT-2] 17 p2666 N84-27002
Solution of 3-dimensional time-dependent viscous flows. Part 3: Application to turbulent and unsteady flows
[NASA-CR-166565-PT-3] 17 p2667 N84-27003
Solution of 3-dimensional time-dependent viscous flows. Part 1: Investigation of candidate algorithms
[NASA-CR-166565-PT-1] 17 p2757 N84-27503
Three-dimensional unsteady viscous flow analysis over airfoil sections
[NASA-CR-172368] 19 p3020 N84-29152
WEINBERG, B. H.
Word frequency and automatic indexing 11 p1747 N84-21401
WEINBERG, F.
The movement of particles in liquid metals under gravity forces and the interaction of particles with advancing solid-liquid interface 24 p3682 N84-34594
WEINBERG, I.
Radiation damage and defect behavior in ion-implanted, lithium counterdoped silicon solar cells
[NASA-TM-83646] 13 p1985 N84-22890
Radiation tolerance of low resistivity, high voltage silicon solar cells 19 p3045 N84-29318
Cell and defect behavior in lithium-counterdoped solar cells 19 p3046 N84-29322
The effects of lithium counterdoping on radiation damage and annealing in n(+)p silicon solar cells
[NASA-TM-83755] 21 p3390 N84-31513
WEINBERG, M. C.
A feasibility study of the production of low loss IR fibers in space
[NASA-CR-173430] 14 p2225 N84-24351
WEINBERGER, D. A.
Advances in GaAs bistable optical devices 14 p2233 N84-24394
Room-temperature thermal optical bistability in thin-film interference filters and dye-filled etalons 14 p2234 N84-24402
WEINER, D. D.
EMC (electromagnetic compatibility) modeling and analysis: A probabilistic approach
[AD-A135664] 09 p1301 N84-18505

WEINER, H.
Wiener-Poisson control problems
[AD-A135943] 09 p1372 N84-18956
Stationary stochastic asymmetric control
[AD-A137565] 11 p1717 N84-21201
Asymmetric Weiner-Poisson control
[AD-A142452] 20 p3283 N84-30848
WEINER, M.
High power optical switch for microsecond switching
[AD-D011064] 19 p3017 N84-29123
Distributed pulse forming network for magnetic modulator
[AD-D011062] 23 p3791 N84-34041
WEINER, S. D.
A refined model for radar homing intercepts
[AD-A136108] 09 p1254 N84-18187
WEINERT, H. L.
Analysis of an error detection scheme for parallel computations
[AD-A134819] 08 p1152 N84-17496
Analysis of an error masking scheme for parallel computations
[AD-A136372] 09 p1374 N84-18971
An approach to reliable parallel data processing
09 p1402 N84-19157
Strict redundancy schemes for non-sequential detector reliability. Part 1: Analysis
[AD-A141875] 19 p3006 N84-29055
WEINERT, M.
Theory of hyperfine anomalies in muonic atoms
[DE83-015392] 03 p0438 N84-12872
WEINGARTEN, D. H.
Indiana University Theoretical Particle Physics Group
[DE84-010593] 20 p3293 N84-30903
WEINGARTEN, V. I.
Finite element analysis of wrinkling membranes
[NASA-CR-172325] 14 p2158 N84-23926
WEINLAND, S. L.
Hugoniot measurements on unsintered metal powders
[DE83-016364] 02 p0196 N84-11277
WEINRAUB, W. C. L.
A rodent and lightning protective sheath for fiber optic cables 11 p1724 N84-21246
WEINREICH, R. S.
Technical report on sprayable compliant coatings
[PB84-178011] 17 p2627 N84-26810
WEINSCHEL, H. D.
Cylindrical microstrip array: C-band beacon antenna array with 48 rectangular radiating elements fed in-phase
[AD-A135144] 08 p1144 N84-17442
Antenna performance verification at launch site. A feasibility study on preflight performance testing of stripline slot arrays mounted on a rocket
[AD-A143266] 22 p3577 N84-32653
WEINSTEIN, C. J.
Wideband integrated Voice/Data technology
[AD-A132264] 04 p0521 N84-13421
Wideband integrated voice/data technology
[AD-A139924] 15 p2321 N84-24937
Defense switched network technology and experiments program
[AD-A140609] 17 p2653 N84-26968
WEINSTEIN, L. M.
Preliminary indications of water film distribution and thickness on an airfoil in a water spray
[NASA-TM-85796] 18 p2785 N84-27677
WEINSTOCK, C. B.
Development and analysis of the Software Implemented Fault-Tolerance (SIFT) computer
[NASA-CR-172146] 09 p1371 N84-18953
WEINSTOCK, H.
Dynamics of normal-zone propagation in Ta at small currents
[DE84-009990] 22 p3666 N84-33245
WEINSTOCK, K. J.
An evaluation of thematic mapper simulator data for the geobotanical discrimination of rock types in Southwest Oregon
[NASA-CR-166569] 12 p1828 N84-21915
WEIR, R. C.
Forecast verification and reconnaissance data for Southern Hemisphere tropical cyclones
[AD-A130187] 01 p0108 N84-10700
Tropical cyclones affecting Guam (1671-1980)
[AD-A134016] 05 p0708 N84-14638
WEIRNER, J. H.
Basic research on macromolecular dynamics
[PB84-123538] 09 p1289 N84-18417
WEISBERG, H.
Status of P714 - LAPDOG
[DE83-013613] 01 p0164 N84-11079
WEISBIN, C. R.
Automated planning for intelligent machines in energy-related applications
[DE84-011666] 20 p3279 N84-30815
Basis research on intelligent robotic systems operating in hostile environments: New developments at ORNL
[DE84-011464] 21 p3414 N84-31647
WEISBRICH, A. L.
Technology and benefits of aircraft counter rotation propellers
[NASA-CR-168258] 04 p0485 N84-13186
WEISCHEDEL, H. R.
Electromagnetic inspection of wire ropes using sensor arrays
[AD-A141164] 18 p2851 N84-28100
Electromagnetic inspection of wire ropes using sensor arrays
[AD-A142012] 20 p3199 N84-30321
WEISCHEDEL, R. M.
Design of a system that understands informal specifications
[AD-A131479] 02 p0273 N84-11785
Mapping between semantic representations using Horn clauses
[AD-A131531] 02 p0273 N84-11787
Prerequisites for deriving formal specifications from natural language requirements
[AD-A131722] 03 p0424 N84-12771
WEISER, M. D.
Research in programming languages and software engineering
[AD-A136037] 09 p1369 N84-18937
Parallel logic programming and ZMOB and parallel systems software and hardware
[AD-A137068] 10 p1564 N84-20246
WEISGERBER, D.
Experimental investigation of delaminations in carbon fibre composite 01 p0033 N84-10209
Experimental investigation of delaminations in carbon fiber composite
[MBB-FE-214/S/PUB/107] 16 p2562 N84-26434
WEISHAR, L. L.
Interpretative analysis of surficial sediments as an aid in transport studies of dredged materials Cape Canaveral, Florida
[AD-A140759] 17 p2724 N84-27339
WEISLOGEL, S.
Study to determine the IFR operational profile and problems to the general aviation pilot
03 p0311 N84-12032
WEISMULLER, T. P.
Mechanisms and kinetics of diphthalocyanine electrode processes
[AD-A131726] 03 p0349 N84-12270
WEISS, D. J.
Computer-based measurement of intellectual capabilities
[AD-A144065] 23 p3810 N84-34162
WEISS, D. L.
Water resources data for Oregon, water year 1982. Volume 1: Eastern Oregon
[PB84-164326] 14 p2171 N84-24005
Water resources data for Oregon, water year 1982. Volume 2: Western Oregon
[PB84-164334] 14 p2171 N84-24006
WEISS, D. M.
A methodology for collecting valid software engineering data
[AD-A131332] 02 p0272 N84-11781
WEISS, G.
Stochastic bounds on distributions of optimal value functions with applications to PERT, network flow and reliability
[REPT-81] 17 p2771 N84-27593
WEISS, I.
Method to reveal microstructures in single phase alloys
[AD-D011094] 22 p3555 N84-32512
WEISS, J.
Development of a stable epoxy resin system for composite repair
[AD-A135390] 08 p1137 N84-17395
The analytic structure of ordinary and partial differential equation
[AD-A144121] 24 p3950 N84-35011
WEISS, J. L.
A framework for evaluation of surveillance algorithms
[AD-P002901] 13 p1981 N84-22859
WEISS, M. R.
Computerized audio processor
[AD-A130390] 01 p0063 N84-10411
WEISS, M. S.
Effects of impact acceleration on somatosensory evoked potentials
[AD-A130280] 01 p0113 N84-10734
WEISS, N. R.
The orbit of Lageos and solar eclipses
[NASA-TM-86076] 12 p1923 N84-22525
WEISS, R.
Frequency selected and amplitude limited personal noise protectors
[BMFT-FB-HA-84-016] 18 p2915 N84-28488
Feasibility study on a new type of personal noise protection
[BMFT-FB-HA-84-017] 18 p2915 N84-28489
WEISS, R. A.
High value target modeling for tactical decision aids
[AD-P002953] 14 p2199 N84-24193
WEISS, R. S.
Results of the 1983 NASA/JPL balloon flight solar cell calibration program
[NASA-CR-173465] 12 p1779 N84-21609
WEISS, T. F.
Communications biophysics 22 p3684 N84-33362
WEISSHAAR, D. E.
Characterization of Kel-F-graphite composite (Kelgraf) electrodes and application to detection in flowing streams
[PB83-224204] 01 p0039 N84-10247
Application of Kelgraph to electrochemical detection to flow injection analysis and high performance liquid chromatography
[PB83-226928] 01 p0039 N84-10248
WEISSHAAR, T. A.
Dynamics and control of forward swept wing aircraft
[NASA-CR-175369] 08 p1103 N84-17172
Interactive aircraft flight control and aeroelastic stabilization
[NASA-CR-173866] 21 p3344 N84-31214
WEISSKOPF, M. C.
The AXAF technology program: The optical flats tests
[NASA-TM-82570] 10 p1578 N84-20341
WEISSMAN, C. B.
Laser velocimeter developments for surveying thin boundary layers in a Mach 6 high Reynolds number flow
[AD-A130387] 01 p0083 N84-10541
WEISSMAN, D. E.
The dependence of the radar modulation transfer function on environmental conditions and wave parameters (A contribution to studies of radar backscattering from the sea surface). Revision
[AD-A133064] 05 p0670 N84-14408
A study of the dependence of radar backscatter cross section on wind speed and wave slope from the MARSEN experimental results (a contribution to studies of radar backscattering from the sea surface). Supplement to final report
[AD-A135041] 08 p1144 N84-17441
Measurements of ocean wave spectra and modulation transfer function with the airborne two frequency scatterometer 17 p2715 N84-27282
WEISSMAN, S. H.
Helium/solid powder o-ring leakage correlation experiments
[DE83-013773] 01 p0090 N84-10588
WEISTROFFER, H. R.
Performance criteria for comparing constrained nonlinear programming codes
[CSIR-TWISK-279] 07 p1053 N84-16822
WEISWEILER, W.
Anisoptropic diffusion kinetics of metals and carbides in pyrolytic graphite
[BLL-CTO-2261-(9091.9F)] 19 p2991 N84-28953
WEITKAMP, C.
Hydrogen chloride measurements with a Differential Absorption and Scattering (DAS) lidar in the marine atmosphere 23 p3779 N84-33965
State-of-the art Differential Absorption and Scattering (DAS) lidar for SO2 and NO2 23 p3780 N84-33966
WEITSMAN, A.
On the singularities of certain nonlinear partial differential equations 04 p0575 N84-13787
WEITSMAN, Y.
Research on composite materials for structural design
[AD-A134059] 05 p0645 N84-14242
WEITZ, P. G., JR.
Study of effects of fuel properties in turbine-powered business aircraft
[NASA-CR-174627] 16 p2473 N84-25854
WEITZ, R. L.
Disclinations in carbon-carbon composites
[AD-A135248] 08 p1122 N84-17295
WEITZMAN, R. A.
Racial bias and predictive validity in testing for selection
[AD-A131830] 03 p0416 N84-12722
WEITZNER, H.
Propagation and absorption of electromagnetic waves in fully relativistic plasmas
[DE83-017246] 03 p0450 N84-12959
Relativistic broadening near cyclotron resonance
[AD-A136224] 09 p1391 N84-19084
Axisymmetric, non-ideal MHD states with steady flow
[DE84-006045] 11 p1738 N84-21340

Propagation and absorption of electromagnetic waves in fully relativistic plasmas
[DE84-013627] 22 p3660 N84-33204

WEIXEL, M.
Harness formation end-effector with interchangeable tool capability
[AD-D011168] 23 p3757 N84-33813

WEIZER, V. G.
Voltage controlling mechanisms in low resistivity silicon solar cells: A unified approach
[NASA-TM-83612] 11 p1673 N84-20916
The effect of diffusion induced lattice stress on the open-circuit voltage in silicon solar cells
[NASA-TM-83667] 13 p2008 N84-23027
Radiation tolerance of low resistivity, high voltage silicon solar cells 19 p3045 N84-29318

WEKERLE, J.
Hygienic microbiological/virological examination of an airwasher concerning the emission of airborne microorganisms
[BMFT-FB-T-83-130] 02 p0265 N84-11742

WELBURN, J.
Current work on high-grade space gyros at Ferranti in the UK 15 p2266 N84-24609

WELCH, B. H., III
AVCAL (Aviation Consolidated Allowance) restoration program and aircraft material condition
[AD-A144045] 23 p3687 N84-33366

WELCH, B. M.
Ion implanted GaAs IC. Process technology
[AD-A139348] 14 p2242 N84-24461

WELCH, C. T.
SSME structural dynamic model development
[NASA-CR-170960] 08 p1121 N84-17287
Space Shuttle main engine powerhead structural modeling, stress and fatigue life analysis. Volume 1: Gasdynamic environment of the SSME HPFTP and HPOTP turbines
[NASA-CR-170999] 11 p1625 N84-20635
Space Shuttle main engine powerhead structural modeling, stress and fatigue life analysis. Volume 2: Dynamics of blades and nozzles SSME HPFTP and HPOTP
[NASA-CR-171000] 11 p1625 N84-20636
Space Shuttle main engine powerhead structural modeling, stress and fatigue life analysis. Volume 3: Stress summay of blades and nozzles at FPL and 115 percent RPL loads. SSME HPFTP and HPOTP blades and nozzles
[NASA-CR-171001] 11 p1625 N84-20637
Space Shuttle main engine, powerhead structural modeling, stress and fatigue life analysis. Volume 4: Summary of investigation of unscheduled events and special tasks
[NASA-CR-171002] 11 p1625 N84-20638

WELCH, D. O.
The relationship between the martensitic phase transition and the superconducting properties of A15 compounds
[DE83-018186] 04 p0529 N84-13477

WELCH, D. W.
Evaluation of long-duration exposure to the natural space environment on graphite-polyimide and graphite-epoxy mechanical properties (A0175)
15 p2272 N84-24643

WELCH, E. C.
Development of an engineering-scale nuclear test of a solid-breeder fusion-blanket concept
[DE83-016861] 01 p0151 N84-10992

WELCH, J.
Programmable masks for optical information processing 12 p1906 N84-22415

WELCH, J. D.
Traffic alert and collision avoidance system (TCAS): A functional overview of active TCAS I
[AD-A132281] 04 p0482 N84-13171

WELCH, L. S.
The locus of environmental crack growth in bonded aluminium alloy joints
[AERE-R-11069] 18 p2816 N84-27880

WELCH, P. I.
Development of the texture and plastic anisotropy in steels upon hot rolling, transformation and cold rolling
[BMFT-FB-T-83-219] 10 p1483 N84-19559

WELCH, R.
Comparative assessment of LANDSAT-4 MSS and TM data quality for mapping applications in the southeast
[E84-10040] 04 p0551 N84-13633
Geometric accuracy of LANDSAT-4 MSS image data
20 p3212 N84-30406

WELD, D. S.
Explaining complex engineered devices
[AD-A136790] 10 p1554 N84-20186

WELDON, W. F.
Energy stores and switches for rail-launcher systems
[NASA-CR-173249] 07 p0996 N84-16458

WELKER, J. E.
SEASAT altimetry for surface height of inland seas
20 p3222 N84-30472
Soil moisture from temperature measurements at the Earth's surface, update 20 p3222 N84-30474

WELLBORN, J.
Maximum-efficiency dc-motor project for electric vehicles
[DE84-000791] 07 p0999 N84-16479

WELLEMEYER, C.
User's guide for SBUV/TOMS ozone derivative products
[NASA-RP-1116] 07 p1036 N84-16720

WELLER, D. R.
Predictor displays as training aids in carrier landings
[AD-A136643] 10 p1433 N84-19367

WELLER, R. A.
Long term upper ocean study (LOTUS) at 34 deg N, 70 deg W: Meteorological sensors, data and heat fluxes for May-October 1982 (LOTUS-3 and LOTUS-4)
[AD-A133883] 05 p0711 N84-14659

WELLING, C. G.
Panel 2B: Engineering-technology assessment, hard minerals 18 p2866 N84-28197

WELLINGTON, J.
IGES, a key interface specification for CAD/CAM systems integration 12 p1874 N84-22215

WELLIS, W. J.
Theoretical and experimental studies of shock-compressed benzene and polybutene
[DE83-015884] 03 p0430 N84-12816

WELLMAN, G. W.
Failure prediction of notched pressure vessels using the CTOD approach
[DE84-013057] 22 p3612 N84-32883

WELLS, D. C.
Crystal gazing. Part 2: Implications of advanced in digital data storage technology
18 p2842 N84-28049

WELLS, I. D.
Wind and solar powered turbine
[NASA-CASE-NPO-15496-1] 13 p2007 N84-23018

WELLS, J. D.
IBM's token-ring LAN (Local-Area Network): A base-level communications solution
[AD-A143446] 22 p3638 N84-33063

WELLS, J. E.
First results of GPS time transfer to Australia
10 p1475 N84-19635

WELLS, J. H.
Impact and vibration testing of a modified UH-1 crew seat
[AD-A130279] 01 p0117 N84-10760

WELLS, M. G. H.
The insulation of copper wire by the electrostatic coating process
[AD-A137715] 11 p1646 N84-20765

WELLS, R.
Molecular contamination math model support
[NASA-CR-170899] 01 p0026 N84-10174

WELLS, R. D.
Image filtering with Boolean and statistical operators
[AD-A138421] 12 p1908 N84-22428

WELLS, W. C.
Spaceborne Gravity Gradiometers
[NASA-CP-2305] 09 p1335 N84-18716

WELLS, W. E., JR.
Radiative collisional laser feasibility demonstration
[AD-A135793] 09 p1322 N84-18640

WELLS, W. H.
Techniques for measuring radiance in the air and sea
06 p0871 N84-15672

WELLS, W. K.
System for producing high-resolution polarized and unpolarized beams with a tandem accelerator
[DE84-004054] 09 p1388 N84-19063

WELLVING, A.
Photogrammetric method for determining geometric visual perception
[FOA-C-20478-D8] 07 p1008 N84-16539
RSAW: A computer program for processing and presentation of geographic information
[FOA-C-20473-D8(F8)] 07 p1085 N84-17057
A computer program for mapping regions in a geographic data base with raster structure
[FOA-C-20529-D8] 15 p2390 N84-25340
A geographic information system for forest management
[FOA-C-20531-D8] 15 p2418 N84-25516
Computer-aided mapping in the USA: Experiences from a study tour in November 1983
[FOA-C-20533-D8] 19 p3042 N84-29304

WELSH, B. L.
Recent developments in the measurement of time-dependent pressures 14 p2100 N84-23601

WELSH, B. M.
A minimum range criterion for RCS (Radar Cross-Section) measurements of a target dominated by point scatterers
[AD-A138230] 12 p1807 N84-21780

WELSH, J. P.
Open water and thin ice detection in the Arctic marginal ice zone using reflectometer signal analysis
[AD-A136043] 10 p1543 N84-20110

WELTE, D.
German-Argentinian R and D project for the utilization of wind energy
[BMFT-FB-T-84-080] 20 p3237 N84-30549

WELTERSBACH, W.
Development of new integrated concepts for digital color video processing
[BMFT-FB-T-83-079] 02 p0210 N84-11375

WEN-QIANG, L.
On waves in nonadiabatic and nonequilibrium gases
[AD-A141450] 21 p3383 N84-31485

WEN, S.
Crystallization of the glassy phase of grain boundaries in silicon nitride
[NASA-TM-77466] 16 p2560 N84-26421

WEN, S. H.
Elastic theory of the defect solid solution
[DE84-001976] 10 p1590 N84-20418

WENDELL, L. L.
Overview of wind turbine siting considerations
[DE84-011686] 20 p3237 N84-30547

WENDLAND, W. M.
Statistics of instantaneous rainfall rates
[AD-A130089] 01 p0107 N84-10695

WENDLANDT, B. C. H.
Millimetre waves: A problem for the future
24 p3915 N84-34790

WENDLING, P.
Radiative-dynamic properties of Arctic stratus clouds and their possible modification by aerosol particles
[DFVLR-FB-83-23] 06 p0882 N84-15740
Mapping of Arctic haze using airborne lidar
24 p3907 N84-34746

WENDT, H.
Cost/schedule management for software development
[AD-P003591] 21 p3341 N84-31196
Software configuration management in a project environment
[AD-P003592] 21 p3341 N84-31197

WENDT, J. F.
Laser velocimetry study of compressibility effects on the flow field of a delta wing 03 p0322 N84-12108
Hypersonic test facilities 16 p2441 N84-25661

WENDT, R. L.
The OTEC (Ocean Thermal Energy Conversion) mooring technology
[PB83-221168] 01 p0060 N84-10396

WENG, C. I.
Finite element analysis of axisymmetric forging
15 p2307 N84-24838

WENG, G. J.
Effective elastic moduli of an isotropic, two-phase composite 15 p2309 N84-24852

WENG, S.
Kinetic-elastic approach for time-dependent rheological data on slurry fuels and polymers
[AD-A141210] 18 p2821 N84-27911

WENG, S. L.
Fragmentation of small molecules following soft X-ray excitation
[DE83-011645] 02 p0289 N84-11896

WENGER, J.
Open cycle lithium chloride cooling system
[DE84-005831] 20 p3184 N84-30234

WENGER, R. M.
Interactive digital signal processor
[NASA-TM-83997] 24 p3944 N84-34974

WENGERT, J.
Experiments to study the feasibility of making an X-ray laser at the Novette laser facility
[DE83-015615] 03 p0360 N84-12476

WENGUAU, W.
Flow-field matrix solution for direct problem of flow along S1 relative stream surface employing non-orthogonal curvilinear coordinates and corresponding non-orthogonal velocity components
[AD-A131031] 01 p0079 N84-10512

WENNEKERS, R.
Wind energy converter GROWIAN 2
[BMFT-FB-T-84-063] 19 p3051 N84-29364

WENOCUR, M. L.
On failure modeling
[AD-A141760] 19 p3067 N84-29600

WENTWORTH, S. E.
Synthesis of monomers for the preparation of regiospecifically substituted poly(phenylacetylenes) as potential chemical detectors
[AD-A144690] 24 p3889 N84-34628
WENTZ, F. J.
New algorithms for microwave measurements of ocean winds 17 p2713 N84-27272
WENTZ, W. H., JR.
Experimental studies of flow separation of three airfoils at low speeds
[NASA-CR-3530] 19 p2956 N84-28736
WENZEL, H.
Developing of practical methods for the determination of the stagnation temperature and the durability of solar collectors
[BMFT-FB-T-83-227] 10 p1530 N84-20024
WENZEL, H. G.
Validation of SEASAT-1 altimetry using ground truth in the North Sea region
[SER-B-263-MITT-166] 08 p1179 N84-17681
Computation of a high resolution European Gravimetric Geoid (EGG 1) 17 p2727 N84-27356
WENZEL, K. P.
The International Solar Polar Mission: Its scientific investigations
[ESA-SP-1050] 09 p1260 N84-18227
The ISPM mission: Science objectives and mission overview 09 p1260 N84-18229
The ISPM spacecraft 09 p1263 N84-18243
The ISPM common data file 09 p1263 N84-18245
A high-resolution study of ultra-heavy cosmic-ray nuclei (A0178) 15 p2275 N84-24661
Report on the activities of the Space Science Department
[ESA-SP-1062] 17 p2774 N84-27611
WENZEL, L. M.
Real-time hybrid computer simulation of a small turboshaft engine and control system
[NASA-TM-83579] 12 p1771 N84-21548
WENZEL, N.
Laser light scattering at the POSEIDON plasma focus device 10 p1584 N84-20384
WENZEL, R. G.
Efficient forward conversion in a Raman generator
[DE84-007466] 20 p3194 N84-30285
WENZEL, R. J.
LORAN-C signal stability study: Northeast and southeast U.S.
[AD-A137628] 11 p1604 N84-20508
WERBELOFF, M.
The programming and validation of the computerised version of the intermediate mental alertness test
[CSIR-PERS-303] 04 p0573 N84-13776
WERKING, R.
Managers handbook for software development
[NASA-TM-85604] 13 p2028 N84-23150
WERLE, H.
Visualization of vortical type flows in three dimensions 03 p0322 N84-12107
WERLE, M. J.
Compressor and turbine blade boundary layer separation 07 p0955 N84-16196
WERLEY, K. A.
Stable Alfven wave dynamo action in the reversed field pinch
[DE84-004986] 10 p1586 N84-20397
WERMES, N.
Jet production and high p/sub T/ phenomena in photon-photon reactions
[DE83-016397] 03 p0437 N84-12868
WERNER, C.
Results of a slant range visibility field test in Munich-Reim
[DFVLR-MITT-83-06] 08 p1102 N84-17169
Airborne lidar for oceanography and hydrology (FLCH)
[ESA-TT-799] 13 p1996 N84-22955
Laser remote sensing measurements of natural target reflectivities 23 p3782 N84-33983
WERNER, H.
Combined sweeps for seismic reflection surveys using the VIBROSEIS system
[BMFT-FB-T-83-211] 10 p1537 N84-20073
WERNER, M.
Far-IR spectroscopy of the galactic center: Neutral and ionized gas in the central 10 pc of the galaxy
[NASA-CR-166510] 13 p2070 N84-23411
New infrared observations of IRS1, IRS3 and the adjacent nebula in the OMC-2 cluster 16 p2572 N84-26506
Detection of shocked atomic gas in the Kleinmann-Low nebula
[NASA-TM-85967] 16 p2574 N84-26523
New infrared observations of IRS1, IRS3, and the adjacent nebula in the OMC-2 cluster 16 p2950 N84-28705
WERNER, R. W.
Thermal analysis of a helium-cooled tube-bank blanket module for a tandem-mirror fusion reactor
[DE83-015840] 02 p0297 N84-11945
WERNER, W.
Remarks concerning the application of polynomial zeroing methods on the algebraic eigenvalue problem 16 p2541 N84-26309
WERNIMO, S.
Scintillometer for measuring atmospheric turbulence
[FOA-C-30363-E1] 23 p3752 N84-33785
WERNSTROEM, H.
Transient circuit overvoltages in Swedish manufacturing industry
[FOA-E-30002-E26] 23 p3744 N84-33735
WERON, A.
Harmonizable stable processes on groups: Spectral, ergodic and interpolation properties
[AD-A136504] 09 p1384 N84-19041
WERT, J. A.
Deformation and fatigue of aircraft structural alloys
[AD-A133947] 05 p0654 N84-14297
Processing and properties of airframe materials
[AD-A140832] 17 p2624 N84-26797
WERTH, J.
Develop and test fuel cell powered on-site integrated total energy systems. Phase 3: Full-scale power plant development
[NASA-CR-168294] 04 p0557 N84-13672
Develop and test fuel cell powered on-site integrated total energy system
[NASA-CR-168239] 04 p0557 N84-13673
Develop and test fuel cell powered on-site integrated total energy systems
[NASA-CR-174714] 17 p2723 N84-27329
WERTHEIM, A. H.
A re-evaluations of cancellation theory: Visual, vestibular and oculomotor contributions to perceived object motion
[AD-B082936] 19 p3067 N84-29455
WERTZ, W. E.
The depositional environments and petrography of the Stirling Quartzite Death Valley Region, California and Nevada 21 p3439 N84-31816
WESCHE, T. A.
Snowy Range Observatory: Climatological and streamflow data report 1982
[PB83-243147] 03 p0403 N84-12633
WESCOTT, T.
Interactive digital image processing for terrain data extraction, phase 4
[AD-A140197] 16 p2510 N84-26107
WESCOURT, K. T.
Alternative knowledge acquisition interface structures
[AD-A139019] 13 p2022 N84-23109
WESELY, M. L.
Surface heat flux derived from sodar amplitude and frequency data: A comparison
[DE83-017930] 04 p0564 N84-13717
Rush field experiments: Growth and initial decay of the mixed layer over an autumn landscape
[DE84-001671] 07 p1040 N84-16743
WESNER, D.
Fragmentation of small molecules following soft X-ray excitation
[DE83-011645] 02 p0289 N84-11896
WESOLOWSKI, J.
Experimental and clinical research on the effectiveness of ultrasound in vascular surgery
[ISSN-0208-5658] 19 p3064 N84-29442
WESSELING, P.
A portable vector-code for autonomous multigrid modules
[MC-NW-154/83] 07 p1065 N84-16914
WESSELLS, G. W.
Optimizing image quality for SAR 23 p3777 N84-33950
WESSELS, H. R. A.
Distortion of the wind field by the Cabauw meteorological tower
[KNMI-WR-83-15] 12 p1862 N84-22130
WESSLING, T.
Simulation of Thematic Mapper data for remote bathymetry
[AD-A136377] 09 p1337 N84-18728
WESSMAN, M. D.
Measurement of velocity distributions in turbulent jets using a laser Doppler velocimeter
[AD-A132316] 04 p0533 N84-13506
WESSON, L. N.
Field expedient repair of fiber optic cables
[AD-A134276] 07 p0985 N84-16382
WEST, B. J.
Scattering of waves by irregularities in periodic discrete lattic spaces. Part 2: Calculations
[AD-A130665] 01 p0140 N84-10917
Fractal phase screens
[AD-A137804] 11 p1714 N84-21175
WEST, B. S.
Aircraft transparency testing methodology and evaluation criteria. Part 2: Methodology development for improved durability
[AD-A131928] 03 p0331 N84-12157
Aircraft transparency testing methodology and evaluation criteria. Part 1: Test methods and information analysis
[AD-A131927] 03 p0331 N84-12158
Alternate T-38 transparency development. Part 4: Parametric studies
[AD-A131904] 03 p0331 N84-12159
Development of an impact resistant test method for polycarbonate
[AD-A139082] 13 p2002 N84-22988
Alternate T-38 transparency development
[AD-P003219] 17 p2595 N84-26632
Improving the birdstrike resistance and durability of aircraft windshield systems: Program technical summary
[AD-A143712] 23 p3691 N84-33395
WEST, C. D.
Dynamic analysis of the fluidyne
[DE83-017283] 03 p0384 N84-12500
Stirling engines with controlled evaporation of a two-phase two-component working fluid
[DE83-017284] 06 p0853 N84-15560
WEST, E. A.
The new MSFC Solar vector magnetograph. Center director's discretionary fund
[NASA-TM-82568] 10 p1497 N84-19786
WEST, E. J.
Spartan Release Engagement Mechanism (REM) stress and fracture analysis
[NASA-CR-173779] 19 p3034 N84-29244
WEST, G. S.
Severe storm initiation and dvelopment from satellite infrared imagery and Rawlinsonde data 24 p3929 N84-34872
WEST, H. I., JR.
Calculation of ion charge-state distribution in ECR ion sources
[DE84-000517] 04 p0600 N84-13957
WEST, M. L.
Space Shuttle inflatable training articles
[NASA-CR-171761] 11 p1622 N84-20618
WEST, R. A.
Voyager 1 imaging and IRIS observations of Jovian methane absorption and thermal emission: Implications for cloud structure
[NASA-CR-173567] 16 p2579 N84-26544
WESTBROOK, C. K.
Chemical kinetics modeling of engine knock: Preliminary results
[DE84-001236] 06 p0802 N84-15226
Modeling chemical kinetic aspects of engine knock
[DE84-009874] 20 p3198 N84-30312
Pressure effects on wall heat transfer during flame quenching
[DE84-012265] 21 p3401 N84-31575
Influence of diluents and inhibitors on detonations
[DE84-006300] 22 p3548 N84-32463
A comprehensive chemical kinetic reaction mechanism for the oxidation of n-butane
[DE84-005739] 22 p3549 N84-32467
Experimental and modeling study of engine knock
[DE84-006134] 22 p3606 N84-32844
Unsteady heat transfer during laminar flame quenching
[DE84-006301] 23 p3715 N84-33550
WESTBROOK, J. H.
Extraction and compilation of numerical and factual data 07 p1086 N84-17063
Progress toward a coordinated system of databases covering the engineering properties of materials 07 p1087 N84-17068
WESTBROOK, R. D.
Update of pulsed-laser processing technology for high-efficiency silicon solar cells
[DE84-000638] 04 p0559 N84-13684
Beam processing for high-efficiency Si solar cells
[DE84-002059] 06 p0874 N84-15690
WESTCOTT, C.
A new electrochemical technique for evaluation of susceptibility to pitting corrosion
[AERE-M-3372] 18 p2817 N84-27883
WESTCOTT, N. E.
Summary of the VIN field program: Summer 1979
[AD-A130836] 01 p0108 N84-10704
WESTERFELDT, C. R.
System for producing high-resolution polarized and unpolarized beams with a tandem accelerator
[DE84-004054] 09 p1388 N84-19063

WESTERGREN, B.
An interpolation type inequality for a discrete weighted norm
[CTH-MATH-1983-30] 13 p2037 N84-23213
WESTERHOLT, U.
Detailed system studies on rendezvous and docking
[ERNO-RX-015-2/83] 23 p3697 N84-33427
WESTERIK, J.
Climatology of heating-degree days in the Netherlands during the years 1961-1980
[KNMI-TR-47] 18 p2891 N84-28351
WESTERKAMP, D.
Coding of color video signals for digital magnetic tape recording at low bit rates
[BMFT-FB-T-83-185] 07 p0995 N84-16450
WESTERKAMP, E. J.
Digital computer program for generating dynamic turbofan engine models (DIGTEM)
[NASA-TM-83446] 07 p0954 N84-16185
WESTERLING, C.
On geometrical accuracy in precise metal forming
15 p2308 N84-24845
WESTERN, L. R.
Theoretical models for the polarization of astronomical masers 21 p3522 N84-32313
WESTFALL, A. H.
Hubble space telescope component qualification utilizing a residual gas analyzer
24 p3865 N84-34497
WESTFALL, L. J.
Arc spray fabrication of metal matrix composite monotape
[NASA-CASE-LEW-13828-1] 06 p0798 N84-15203
WESTKAEMPER, G.
Ultrasonic billet testing equipment for surface defects
[BMFT-FB-T-83-192] 07 p1014 N84-16576
WESTLAKE, D. G.
Geometric rationale for hydrogenated Pd3P/sub 1-x
[DE84-006737] 13 p2048 N84-23288
Rationalizing the hydrogen sites in Pd3P sub 1-xH sub y
[DE84-009159] 19 p3112 N84-29774
WESTLEY, F.
Ozone reactions in aqueous solutions: A bibliography
[PB84-109883] 08 p1127 N84-17325
WESTLIN, K. L.
NBS (National Bureau of Standards) Workshop: Environmental Control for Archival Records Storage
[PB83-242230] 03 p0460 N84-13026
WESTMACOTT, K. H.
Proceedings of the Seventh International Conference on High Voltage Electron Microscopy
[DE83-016323] 04 p0538 N84-13540
Application of HVEM in phase transformation research
[DE84-009226] 19 p2996 N84-28982
WESTMAN, G. H.
Resource and potential reclamation evaluation: Northeast Montana investigations
[PB84-112390] 09 p1337 N84-18734
Resource and potential reclamation evaluation: Northeast Montana investigations
[PB84-112408] 09 p1338 N84-18735
WESTMORELAND, C. G.
Chemical reactions possibly useful for low temperature thermal energy storage
[DE84-004126] 09 p1342 N84-18763
WESTON, A. R.
Climb-dash real-time calculations
[NASA-CR-173184] 07 p0943 N84-16115
On-board near-optimal climb-dash energy management 07 p0943 N84-16116
Energy state revisited 07 p0943 N84-16118
An optical surface tracking device which determines a solid propellant's burning rate 13 p1944 N84-22638
WESTON, B.
A high performance bulk memory system
[AD-A140780] 17 p2749 N84-27451
WESTON, D. E.
Turn-around loss for oceanic sound on a bottom slope
[AUWE-TN-705/83] 03 p0430 N84-12818
WESTON, G. M.
ESR steel deoxidation and slag practice: Influence on inclusion morphology
[MRL-R-915] 12 p1796 N84-21718
WESTPHAL, H.
Chemical vapour deposition coating of hard metals with special reference to boron and boron compounds
[BLL-RISLEY-TRANS-4877] 12 p1795 N84-21705
WESTPHAL, M.
Study of wind scatterometer antenna for ERS-1. Volume 1: Executive summary report
[Y/A-3380] 13 p2017 N84-23080
Study of windscatterometer antenna for ERS-1
[MIX/A-3188] 13 p2018 N84-23081
WESTPHAL, R. V.
Experimental study of flow reattachment in a single-sided sudden expansion
[NASA-CR-3765] 09 p1312 N84-18571
Crossed hot-wire data acquisition and reduction system
[NASA-TM-85871] 11 p1656 N84-20807
WESTPHAL, W.
Study report on a modular photovoltaic power supply system for space application
[BMFT-FB-W-84-010] 19 p2983 N84-28904
WESTRA, D. P.
Simulator design features for air-to-ground bombing. Part 1: Performance experiment 1
[AD-A141190] 18 p2798 N84-27753
WESTWATER, E. R.
Combined ground-based and satellite remote sensing of temperature 23 p3774 N84-33926
WETHERHOLD, R. C.
Statistics of fracture of composite materials under multiaxial loading 22 p3544 N84-32433
WETHINGTON, R.
Dynamic mass balance of PCB (polychlorinated biphenyls) and suspended solids in Saginaw Bay: A case study
[PB83-250306] 04 p0561 N84-13699
WETTACH, R. H.
ICAM (Integrated Computer Aided Manufacturing) conceptual design for computer-integrated manufacturing. Volume 4, part 5, task D: Quality assurance/quality, control/technical requirement/tasks, quality assurance modeling and analysis, architecture for product assurance, (TTD)
[AD-A144691] 24 p3948 N84-34999
WETZEL, J. R.
Calorimeter operating system implemented on a Z-80 microcomputer in read only memory
[DE83-016647] 03 p0419 N84-12734
WETZEL, K.
Microelectronic bending and pressure sensors
[BMFT-FB-T-83-100] 02 p0225 N84-11476
WETZEL, P. A.
Temporal aspects of eye movement when viewing multiple targets
[AD-A134853] 08 p1201 N84-17828
WETZEL, P. J.
Rain estimation from satellites: An examination of the Griffith-Woodley technique
[NASA-TM-84969] 04 p0566 N84-13735
WETZEL, R. G.
To quench our thirst: The present and future status of freshwater resources of the United States, part 3
[DE83-016791] 03 p0401 N84-12625
Limnology, second edition
[DE83-016792] 03 p0402 N84-12627
Dissolved organic matter and lake metabolism: Biochemistry and controls of nutrient flux dynamics in lakes
[DE83-016789] 04 p0571 N84-13761
WEWERINKE, P. H.
Human visual information processing: Basic viewpoints from psychology and human engineering research
[NLR-MP-82032-U] 06 p0892 N84-15798
WEWERKA, E. M.
Space reactor fuels performance and development issues
[DE84-011414] 21 p3497 N84-32164
WEXLER, R. L.
Diurnal freeze-thaw frequencies in the high latitude: A climatological guide
[AD-A135869] 09 p1349 N84-18812
WEY, T. C.
A numerical analysis for blade tip loadings on a thick bladed hovering helicopter rotor
17 p2599 N84-26658
WEYAND
Planning and implementation of automated cutting in the precision engineering industry
[MBB-UA-772-83-O] 14 p2135 N84-23794
WEYDANDT, J.
System aspects of the European Retrievable Carrier (EURECA) thermel control system
10 p1444 N84-19432
WEYGAND, D. P.
Monte Carlo simulation of high p/sub P jets
06 p0911 N84-15915
WEYL, G.
Experimental and theoretical studies of laser propulsion phenomenology
[AD-A140995] 18 p2846 N84-28069
WEYN, A.
Computer programs for seismic analysis of piping systems with special reference to the power piping code B31.1
[CRIF-MT-158] 07 p1017 N84-16601
WHALEN, B. A.
Fast magnetospheric echoes of energetic electron beams 05 p0636 N84-14187
Project Waterhole III 05 p0640 N84-14210
Sequential barium releases to study tangential versus rotational discontinuities in auroral arcs
05 p0640 N84-14215
WHALEN, J. F.
Neutron total cross section measurements in the energy region from 47 keV to 20 MeV
[DE84-001400] 04 p0601 N84-13970
WHALEN, J. J.
Basic EMC (electromagnetic compatibility) technology advancement for c3 systems. Volume 1: A nonlinear macromodel of the bipolar integrated circuit operational amplifier for electromagnetic interference analysis
[AD-A141369] 19 p3004 N84-29040
WHALEN, W. P.
Multibus Avionic Architecture Design Study (MAADS)
[AD-A138226] 12 p1770 N84-21546
WHALEY, A. D.
Higher layer protocols for a workstation architecture
[DE84-013649] 22 p3641 N84-33067
WHALEY, P. W.
Entropy production during fatigue as a criterion for failure. The critical entropy threshold: A mathematical model for fatigue
[AD-A134767] 08 p1171 N84-17628
Experimental measurement of material damping using digital test equipment 10 p1514 N84-19913
An angular velocimeter for aerospace applications
[AD-P002682] 11 p1658 N84-20819
WHALEY, T. W.
Phototransformation of polycyclic aromatic hydrocarbons into stable, mutagenic components
[DE84-001747] 07 p0966 N84-16261
WHAN, G. A.
State variable method of fault tree analysis
[DE84-006007] 12 p1824 N84-21891
WHANG, K. Y.
A physical database design methodology using the property of separability 21 p3517 N84-32281
WHANG, S. H.
Alloy development, processing and characterization of devitrified titanium base microcrystalline alloys
[AD-A136589] 09 p1282 N84-18374
WHANG, Y. C.
Corotating shocks in inner heliosphere
03 p0475 N84-13124
Coalescence of two pressure waves associated with stream interactions
[NASA-TM-86120] 16 p2581 N84-28554
WHARRAM, G.
Computation of influence of defects on static and fatigue strength of composites 01 p0034 N84-10217
WHARTON, W. W.
Laser induced nitrations of some aliphatic hydrocarbon compounds 21 p3373 N84-31404
WHATLEY, A.
Exposure to space radiation of high-performance infrared multilayer filters and materials technology experiments (A0056) 15 p2277 N84-24678
WHEALTON, J. H.
Normalized emittance of SITEX negative ion source
[DE84-003285] 07 p1072 N84-16967
WHEAT, S. R.
A Koiloff/Basal method, 3D migration program implemented on the CYBER 205 supercomputer
10 p1562 N84-20232
WHEATLEY, J. C.
Thermoacoustic couple
[DE84-011296] 20 p3291 N84-30895
Period-doubling 2-torus state in a convecting He-3-superfluid He-4 solution
[DE84-009985] 22 p3666 N84-33243
Onset of oscillations in symmetric convective states in a superfluid He-3-He-4 mixture
[DE84-009984] 22 p3666 N84-33244
WHEATON, J. W.
Fatigue considerations in view of measured load spectra
[AD-A140221] 17 p2679 N84-27067
WHEELER, C. D.
Operation of the Brookhaven MPS Facility
[DE83-015383] 03 p0441 N84-12896
WHEELER, D. J.
Land use inventory of Salt Lake County, Utah from color infrared aerial photography 1982
[E84-10015] 02 p0237 N84-11553
WHEELER, D. R.
Tribological applications of surface analysis
[NASA-TM-83707] 16 p2460 N84-25766
Adhesion between polymers and evaporated gold and nickel films
[NASA-TP-2360] 21 p3369 N84-31379

WHEELER, G. L.
World-wide sea-surface temperatures
[AD-A131892] 03 p0411 N84-12689
WHEELER, J. W.
Do pions condense in neutron-star matter?
[DE84-000463] 04 p0620 N84-14093
WHEELER, R.
High yield wind energy resources in the mid-Hudson River basin
[PB84-184951] 20 p3234 N84-30530
WHEELER, R. L.
An example of boundary layer in delay equations
[AD-A129144] 01 p0129 N84-10842
WHEELER, T. G.
Combined effects of ionizing radiation and anticholinesterase exposure on rodent motor performance
[AD-A131847] 03 p0414 N84-12707
Duration of memory loss due to electron beam exposure
[AD-A132941] 06 p0886 N84-15760
Motor performance in irradiated rats as a function of radiation source, dose, and time since exposure
[AD-A141209] 18 p2894 N84-28363
Effects of ionizing radiation and restraint stress on activity, avoidance conditioning, and stomach ulcers in albino rats
[AD-A141515] 19 p2984 N84-28911
WHEELER, T. J.
Embedded system design with Ada as the system design language
[AD-A144232] 24 p3945 N84-34979
WHEELER, T. P.
Signal encoding and telemetry systems for space vehicles
[AD-A134445] 07 p0963 N84-16244
Remote data acquisition system
[AD-A143347] 22 p3541 N84-32419
WHELAN, J. A.
Develop and test fuel cell powered on-site integrated total energy systems. Phase 3: Full-scale power plant development
[NASA-CR-168294] 04 p0557 N84-13672
Develop and test fuel cell powered on-site integrated total energy system
[NASA-CR-168239] 04 p0557 N84-13673
Develop and test fuel cell powered on-site integrated total energy systems
[NASA-CR-174714] 17 p2723 N84-27329
WHELESS, T. K.
NASTRAN analysis comparison to shock tube tests used to simulate nuclear overpressures
[AD-A142290] 20 p3202 N84-30337
WHIDDON, W. I.
A laboratory approach to technology transfer: The passive solar cooling system concept example
16 p2516 N84-26152
WHINERY, L. D.
Preliminary results of the effects of sewing, packing and parachute deployment on material strength
[DE84-006464] 13 p1927 N84-22541
WHIPKEY, R. R.
Experimental study of the separating confluent boundary-layer. Volume 2: Experimental data
[NASA-CR-166018] 11 p1600 N84-20481
WHIPPLE, E. C.
Anomalously high potentials observed on ISEE
[NASA-CR-172791] 08 p1115 N84-17252
Anomalously high potentials observed on ISEE
08 p1116 N84-17258
Impact ionization effects on Pioneer Venus Orbiter
08 p1118 N84-17270
An overview of charging of large space structures in polar orbit
[AD-P002100] 16 p2521 N84-26186
WHIPPLE, F. L.
Cometary nucleus and active regions
13 p2075 N84-23450
The study of the physics of cometary nuclei
[NASA-CR-173519] 13 p2091 N84-23543
WHISLER, D. J.
Design analysis of an aluminum-air battery for vehicle operations: Transportation systems research
[DE83-014488] 01 p0163 N84-11071
WHITAKER, A. F.
Solar-array-materials passive LDEF experiment (A0171) 15 p2274 N84-24656
LEO atomic oxygen effects on spacecraft materials: STS-5 results
[NASA-TM-86463] 24 p3867 N84-34506
WHITAKER, R. B.
Characterization of glass-filled engineering thermoplastic composites
[DE84-000361] 04 p0492 N84-13231
Characterization of polyetheretherketone and other engineering thermoplastics
[DE84-010668] 23 p3725 N84-33603
WHITAKER, T. E.
FOSS (Fiber Optic Sensor System) FDM (Feasibility Demonstration Model) electrooptical tow cable termination
[AD-A131319] 02 p0294 N84-11925
WHITCOMB, J. D.
User's manual for GAMNAS: Geometric and Material Nonlinear Analysis of Structures
[NASA-TM-85734] 06 p0798 N84-15200
Analysis of interlaminar stresses in thick composite laminates with and without edge delamination
[NASA-TM-85738] 06 p0798 N84-15201
Buckling of a sublaminate in a quasi-isotropic composite laminate
[NASA-TM-85755] 09 p1275 N84-18325
A simple rectangular element for 2-dimensional analysis of laminated composites
[NASA-TM-86291] 22 p3544 N84-32439
Analysis of instability-related growth of a through-width delamination
[NASA-TM-86301] 23 p3711 N84-33524
WHITCOMB, R. T.
Transonic airfoil development
03 p0317 N84-12076
Transonic empirical configuration design process
03 p0318 N84-12079
WHITE, A. B., JR.
Supraconvergence and functions that sum to zero on cycles
[DE84-013889] 23 p3818 N84-34210
WHITE, A. L.
An approximation formula for a class of Markov reliability models
[NASA-CR-172290] 07 p1068 N84-16935
Upper and lower bounds for semi-Markov reliability models of reconfigurable systems
[NASA-CR-172340] 12 p1897 N84-22353
WHITE, B. L.
Effects of JP-4 fuel on Graphite/Epoxy composites
[AD-A135416] 06 p1122 N84-17296
WHITE, B. R.
Abrasion by aeolian particles: Earth and Mars
[NASA-CR-3788] 11 p1628 N84-20654
WHITE, C.
Torque properties of oscillating, dry-lubricated ball bearings in vacuum
[ESA-ESTL-57] 23 p3758 N84-33820
WHITE, C. C., III
A knowledge based interactive procedure for planning and decision support under uncertainty and parameter imprecision
[AD-P002890] 13 p1979 N84-22851
An evaluation of ARIADNE (alternative ranking interactive aid based on dominance structure information elicitation)
[AD-P002891] 13 p1980 N84-22852
WHITE, C. L.
The impact of the F/A-18 aircraft digital flight control system and displays on flight testing and safety
06 p0777 N84-15091
Sulfur and antimony segregation to creep cavity surfaces in Ni and an FCC Fe-Ni-Cr alloy
[DE84-011458] 20 p3154 N84-30028
WHITE, C. W.
Dopant incorporation during nonequilibrium solidification
[DE83-014052] 01 p0154 N84-11014
Structure-property relationships in ion-implanted ceramics
[DE83-015505] 02 p0202 N84-11313
Acute intramuscular toxicity (LD50) of 1,1'-trimethylenebis (4-(hydroxyiminomethyl) pyridinium bromide) monohydrate, (TMB-4) in male mice
[AD-A133148] 06 p0886 N84-15758
Ion beam modification of ceramics
[DE84-003302] 08 p1138 N84-17403
Nonequilibrium crystal growth during laser annealing of silicon 18 p2939 N84-28639
Ion implantation, ion beam mixing and annealing studies of metals in Al2O3, SiC and Si3N4
[DE84-012336] 20 p3157 N84-30052
WHITE, D. H.
Low energy neutrino physics
[DE84-002856] 08 p1230 N84-18037
WHITE, D. R.
Synthesis of Co2+ and Ni2+ stabilized beta alumina
11 p1744 N84-21378
WHITE, E. R.
Are we giving aircraft integrated data systems users the best information in the best way at the best time?
17 p2585 N84-26566
WHITE, F. A.
Low energy electron magnetometer using a monoenergetic electron beam
[NASA-CASE-LAR-12706-1] 03 p0375 N84-12444
WHITE, G.
An advanced pitch change mechanism incorporating a hybrid traction drive
[NASA-TM-83709] 16 p2433 N84-25605
WHITE, G. A.
Quaternary naltrexone reverses radiogenic and morphine-induced locomotor hyperactivity
[AD-P003252] 18 p2905 N84-28419
WHITE, G. C.
TRAN-STAT (statistics for environmental studies) no. 20, May 1982
[DE83-015096] 02 p0285 N84-11871
WHITE, G. H.
Teleconnection patterns in the Southern Hemisphere
12 p1855 N84-22084
On the role of the transient eddies in maintaining the seasonal mean circulation 12 p1855 N84-22086
Two contrasting Northern Hemisphere winters: 1980 - 1981 and 1981 - 1982 12 p1855 N84-22087
WHITE, G. S.
Stress corrosion of ceramic materials
[AD-A136729] 10 p1467 N84-19581
WHITE, H. M.
Water and alcohol use in automotive diesel engines: Alternative Fuels Utilization Program
[DE84-004196] 10 p1470 N84-19603
WHITE, H. S.
Characterization of p-type CdTe electrodes in acetonitrile/electrolyte solutions. Nearly ideal behavior from reductive surface pretreatments
[AD-A130764] 01 p0071 N84-10466
X-ray photoelectron and Auger electron spectroscopic study of the CdTe surface resulting from various surface pretreatments: Correlations of photoelectrochemical and capacitance-potential behavior with surface chemical composition
[AD-A138601] 13 p1956 N84-22714
WHITE, J. L.
Mesophase behavior fundamental to the processing of carbon-carbon composites
[AD-A134283] 07 p0968 N84-16270
Fabrication of biaxially oriented films via poly(p-phenylene teraphthalamide)/H2SO4 liquid crystalline dopes
[AD-A141755] 19 p3111 N84-29764
WHITE, J. M.
Thin film models of SMSI (Show Strong Metal-Support Interactions) catalysts: Pt on oxidized titanium
[AD-A140569] 17 p2767 N84-27572
WHITE, J. V.
Radar data smoothing filter study
[NASA-CR-168347] 18 p2844 N84-28059
WHITE, K. J.
Flash X-ray with image enhancement applied to combustion events 13 p1948 N84-22666
WHITE, L.
Assessment of institutional barriers to the use of natural gas fuel in automotive vehicle fleets
[NASA-CR-168183] 05 p0699 N84-14587
WHITE, M.
Satellite Data Transmission (SDT) requirement
[NASA-CR-175231] 15 p2319 N84-24920
WHITE, M. A.
Autonomous Integrated Receive System (AIRS) requirements definition. Volume 2: Design and development
[NASA-CR-175262] 22 p3576 N84-32647
WHITE, M. K.
Water resources data for Montana, water year 1982. Volume 1: Hudson Bay Basin, Missouri River Basin
[PB84-117506] 09 p1339 N84-18749
Water resources data for Montana, water year 1982. Volume 2: Columbia River Basin
[PB84-118561] 09 p1340 N84-18752
WHITE, O. R.
Modelling solar spectral irradiance variations at ultraviolet wavelengths 17 p2780 N84-27651
WHITE, P.
Evaluation of a five node videoconference system and shared graphics workspace - U.S. Department of Defense, Washington, D.C.
[AD-A136483] 09 p1299 N84-18491
The detection of nonplanar surfaces in visual space
[AD-A138761] 14 p2185 N84-24093
WHITE, P. R. S.
A diagnostic technique for improving combustor performance 19 p2967 N84-28800
WHITE, R. A.
Fluid dynamic mechanisms and interactions within separated flows and their effects on missile aerodynamics
[AD-A130831] 01 p0079 N84-10514

Lightning simulator circuit parameters and performance for severe-threat, high-action-integral testing
[DE84-009065] 20 p3181 N84-30211

WHITE, R. G.
Increased aircraft survivability using direct voice input
06 p0778 N84-15100

WHITE, R. K.
The FGGE level 3-B daily global analyses, part 1
[PB83-221051] 01 p0109 N84-10709
FGGE level 3-B daily global analyses. Part 2: (Mar. 1979 - May 1979)
[PB84-100270] 08 p1193 N84-17780
FGGE level 3-B daily global analyses, part 3
[PB84-135854] 10 p1541 N84-20101

WHITE, R. P.
A natural language interface for a PROLOG database
[AD-A138071] 12 p1880 N84-22254

WHITE, S.
Preliminary report of HF (High-Frequency) radar measurements of surface currents East of the Strait of Gilbraltar near Marbella, Spain: October 7-22, 1982, part 1
[PB84-154244] 14 p2183 N84-24083
Preliminary report of HF radar measurements of surface currents east of the Strait of Gibraltar near Marbella, Spain, 7-22 October 1982, part 2
[PB84-183664] 20 p3251 N84-30637

WHITE, T.
Modeling the human operator's supervising behavior
20 p3264 N84-30707

WHITE, T. E.
Water resources data for Pennsylvania, Water Year 1982. Volume 1: Delaware River Basin
[PB84-161579] 14 p2170 N84-23999

WHITE, T. J.
Matched survival analysis (MSURV)
[AD-A131337] 02 p0284 N84-11861
Guidelines for running the thermal computational model of the eye
[AD-A142550] 20 p3260 N84-30688

WHITE, T. L.
The EBT-S 28-GHz, 200-kW, CW, mixed-mode, quasi-optical plasma heating system
[DE84-014415] 23 p3829 N84-34287

WHITE, W.
Capacitor hardness demonstration program
[AD-A133045] 05 p0676 N84-14442

WHITE, W. A.
GaAs FET logic at low temperatures
[AD-A135007] 08 p1150 N84-17483

WHITE, W. B.
Structure of glasses containing transition metal ions
[DE84-004211] 10 p1468 N84-19591
Annual and interannual variability in the Kuroshio Current System
[AD-P002665] 11 p1691 N84-21030

WHITE, W. W.
Forbidden line radiation cooling of high altitude plasmas
[AD-A131266] 01 p0149 N84-10979

WHITEHAIR, S.
Spatial electron density and electric field strength measurements in microwave cavity experiments
[NASA-CR-173907] 22 p3582 N84-32682

WHITEHEAD, D. S.
The calculation of steady and unsteady transonic flow in cascades
[CUED/A-TURBO/TR-118] 01 p0002 N84-10016

WHITEHEAD, J. C.
Wafer-scale laser pantography. Part 6: Direct-write interconnection of VLSI gate arrays
[DE84-012676] 22 p3601 N84-32815

WHITEHEAD, J. M.
The effects of weather on rapid runway repair, volume 2
[AD-A130350] 01 p0016 N84-10105

WHITEHEAD, J. P.
Anomalous surface impedance in reentrant ferromagnetic superconductors
[DE84-012634] 22 p3664 N84-33230

WHITEHEAD, M. C.
First operation of the Los Angeles free-electron laser oscillator
[DE84-006024] 11 p1664 N84-20856

WHITEHEAD, R.
Numerical techniques for high incidence reentry aerodynamics
[AD-A134178] 07 p0948 N84-16149

WHITEHOUSE, H. J.
Signal processing applications of systolic array technology (extended summary)
09 p1399 N84-19139
Radar signal processing architectures and algorithms in digital VLSI (Very Large Scale Integration)
[PB84-140110] 11 p1645 N84-20756

WHITEHURST, C. L.
Evaluation of 95 gpm inductors for aqueous film forming foam
[AD-A141242] 18 p2818 N84-27894

WHITELAW, J. H.
Developing flow in S-shaped ducts. 2: Circular cross-section duct
[NASA-CR-3759] 09 p1312 N84-18572

WHITELEY, R. V., JR.
Effects of solvent and supporting electrolyte on the electrochemical reduction of sulfur dioxide
[DE83-013436] 01 p0038 N84-10241
Effects of water on the cathode passivation by lithium dithionite in the Li/SO2 battery
[DE84-003103] 07 p0998 N84-16473

WHITESIDE, J. B.
Effect of space environment on space-based radar phased-array antenna (A0133) 15 p2271 N84-24638

WHITESIDES, D. V.
Water resources data, Kentucky water year 1982
[PB84-162320] 14 p2171 N84-24004

WHITFIELD, D. L.
Three-dimensional unsteady Euler equation solutions using flux vector splitting
[NASA-CR-173254] 07 p1058 N84-16857

WHITFORD-STARK, J. L.
New models for landform evolution on Io
13 p2074 N84-23443

WHITHAM, K.
Infant-mortality testing of high-energy-density capacitors used on Nova
[DE83-018027] 04 p0610 N84-14028
Novette pulse-power-system description
[DE83-018185] 06 p0918 N84-15968
Design and construction of large capacitor banks
[DE84-002790] 07 p0998 N84-16472

WHITLOCK, A. R.
Strength of anchor bolts in masonry
[PB84-111160] 09 p1297 N84-18479

WHITLOCK, R. R.
Creation of ultra-high-pressure shocks by the collision of laser-accelerated disks: Experiment and theory
[DE83-017366] 03 p0382 N84-12486
Observation of Rayleigh-Taylor-Like structures in a laser-accelerated foil
[AD-A140294] 16 p2556 N84-26399

WHITLOW, J. B., JR.
Fuel savings potential of the NASA Advanced Turboprop Program
[NASA-TM-83736] 20 p3130 N84-29878

WHITLOW, W., JR.
XTRAN2L: A program for solving the general-frequency unsteady transonic small disturbance equation
[NASA-TM-85723] 04 p0479 N84-13150
Entropy condition satisfying approximations for the full potential equations of transonic flow
[NASA-TM-85751] 11 p1601 N84-20485

WHITMAN, J. D.
CTD transect of the Kuroshio Extension 27-42 deg N, 152 deg E
[AD-A131329] 01 p0111 N84-10721

WHITMARSH, K.
Horizon and Prime Communication Programs HCP and PCP
[REPT-72/84/R006U] 19 p3003 N84-29033

WHITMORE, B. C.
Synthesis and characterization of binuclear Schiff base complexes of nickel, copper, and manganese
[AD-A135493] 08 p1132 N84-17360

WHITMORE, R. W.
Sampling report for the study of personal CO (carbon monoxide) exposure
[PB84-181957] 20 p3239 N84-30560

WHITMORE, S. A.
Air data position-error calibration using state reconstruction techniques
[NASA-TM-86029] 22 p3535 N84-32384

WHITNAH, A. M.
Space shuttle entry longitudinal aerodynamic comparisons of flights 1-4 with preflight predictions
01 p0020 N84-10128

WHITNEY, C.
Probabilistic model for assessing time-varying contaminant levels
[PB83-232108] 01 p0115 N84-10745

WHITNEY, D. A.
Local effects of partly-cloudy skies on solar and emitted radiations
[NASA-CR-173189] 07 p1035 N84-16711

WHITNEY, D. E.
Feedback in robotics for assembly and manufacturing
[PB84-177112] 17 p2675 N84-27044

WHITNEY, K. G.
Non-LTE radiation from an argon seeded microballoon implosion 2
[AD-A133679] 05 p0749 N84-14919

WHITNEY, R. R.
New horizons in electromagnetic physics
[DE84-002600] 08 p1230 N84-18039

WHITNEY, W. J.
Performance of a high-work low aspect ration turbine tested with a realistic inlet radial temperature profile
[NASA-TM-83655] 15 p2262 N84-24589

WHITON, F., JR.
Some aerodynamic characteristics of a projectile shape with a nonaxisymmetric boattail at Mach numbers of 0.91 and 3.02
[AD-A133755] 05 p0627 N84-14125

WHITSON, D. W.
Double-injection, deep-impurity switch development
[NASA-CR-168335] 09 p1306 N84-18536

WHITSON, J. C.
Effect of magnetic bending on the high-frequency stability of the ELMO Bumpy Torus
[DE83-017177] 03 p0450 N84-12961
Steepest descent moment method for three-dimensional magnetohydrodynamic equilibria
[DE84-002993] 07 p1076 N84-16999

WHITT, W. D.
High gradient directional solidification furnace
[NASA-CASE-MFS-25963-1] 07 p1007 N84-16531

WHITTAKER, A.
Pulsed D2-F2 chain-laser damage to coated window and mirror components
[AD-A138911] 13 p1995 N84-22950

WHITTAKER, L. M.
Atlas of Northern Hemisphere extratropical cyclone activity, 1958 - 1977
[PB83-225722] 01 p0110 N84-10712

WHITTEN, B. L.
Line intensities for diagnosing laser-produced plasmas
[DE84-009857] 19 p3106 N84-29738

WHITTEMBERGER, J. D.
Method and apparatus for gripping uniaxial fibrous composite materials
[NASA-CASE-LEW-13758-1] 18 p2808 N84-27829

WHITTET, C. B.
Observations of the interstellar ice grain feature in the Taurus molecular clouds 16 p2570 N84-26493

WHITTET, D. C. B.
Observation of the interstellar ice grain feature in the Taurus molecular clouds
[DE84-004316] 10 p1595 N84-20453
Observations of the interstellar ice grain feature in the Taurus molecular clouds 18 p2948 N84-28691

WHITTIER, J. S.
Pulsed D2-F2 chain-laser damage to coated window and mirror components
[AD-A138911] 13 p1995 N84-22950

WHITTINGTON, G. A.
Project manager's guide
[DE83-014454] 02 p0301 N84-11977

WHITTLESEY, A. C.
Design guidelines for assessing and controlling spacecraft charging effects
[NASA-TP-2361] 23 p3700 N84-33452

WHITWORTH, H. A.
Static and dynamic stiffness reduction of graphite/epoxy composite laminates under fatigue loading
06 p0797 N84-15194

WHYTE, R. B.
Aviation fuel specification requirements: Their significance and future trends 15 p2289 N84-24733

WHYTE, W. A., JR.
The subjective effect of multiple co-channel frequency modulated television interference
[NASA-TM-83415] 02 p0208 N84-11360

WIBERLEY, S. E.
Composite structural materials
[NASA-CR-174597] 03 p0347 N84-12257
Composite structural materials
[NASA-CR-173259] 08 p1122 N84-17293

WICHER, J.
Present-day problems in identification of dynamic systems: A review
[ISSN-0208-5658] 19 p3082 N84-29555

WICHMAN, I. S.
Studies of flame spread in an opposed flow over surfaces of solid fuels 05 p0652 N84-14286

WICHMANN, B. A.
Ada-Europe guidelines for the portability of Ada programs, second edition
[NPL-DITC-27/83] 03 p0419 N84-12739
Guidelines for the design of large modular scientific libraries in Ada
[NPL-DITC-28/83] 03 p0420 N84-12740
Guidelines for the design of large modular scientific libraries in Ada
[MW-NN-31/83] 07 p1056 N84-16840
Tutorial material on the real data types in Ada
[NPL-DITC-34/83] 17 p2751 N84-27458

Converting to Ada packages
[NPL-DITC-39/84] 18 p2919 N84-28512
Guidelines for the design of large modular scientific libraries in Ada
[CWI-NM-N8401] 20 p3275 N84-30792
WICHMANN, D.
Development of a multilayer process based on the down draft principle for the sintering of iron ore
[BMFT-FB-T-83-085] 02 p0197 N84-11262
WICK, R. V.
Eye safe laser transmitter
[AD-D011145] 22 p3597 N84-32779
WICKENS, C. D.
The effects of task structures, dynamics of difficulty changes, and strategic resource allocation training on time-sharing performance
[AD-A134112] 05 p0715 N84-14685
Processing phenomena and the dissociation between subjective and objective workload measures
[AD-A134050] 05 p0715 N84-14686
The limits of multiple resource theory: The role of task correlation/integration in optimal display formatting
[AD-A136692] 10 p1554 N84-20182
A comparison of homogeneous and heterogeneous display formats in information integration and noninteg ration tasks
[AD-A136693] 10 p1554 N84-20183
The event related brain potential as an index of information processing, cognitive activity, and skill acquisition: A program of basic research
[AD-A137779] 11 p1702 N84-21100
The effects of a spatial information format on decision making performance in a C3 (Command, Control, and Communications) probabilistic information integration task
[AD-P002887] 13 p1979 N84-22848
Initial validation of a functional age profile for aviators
[AD-P003271] 18 p2907 N84-28436
The limits of multiple resource theory in display formatting: Effects of task integration
[AD-P003321] 18 p2910 N84-28457
A multiple processing resource explanation of the subjective dimensions of operator workload
[AD-A141455] 19 p3070 N84-29480
WICKENS, D. D.
The dual meaning of the term context: Implications for research, theory and applications
[AD-P003365] 18 p2913 N84-28478
WICKENS, R. H.
Viscous three-dimensional flow separations from high-wing propeller-turbine nacelle models
03 p0323 N84-12115
WICKENS, T. D.
Mental representation of circuit diagrams: Individual differences in procedural knowledge
[AD-A136876] 10 p1550 N84-20159
WICKERTS, S.
Multipath propagation at 11, 18, and 36 GHz due to ducting
[FOA-C-20511-E2] 12 p1810 N84-21800
Rain attenuation at 11, 18, and 36 GHz
[FOA-C-20512-E2] 12 p1810 N84-21801
WICKLUND, L. L.
Space Shuttle Orbiter improved auxiliary power unit
20 p3144 N84-29965
WICKMAN, J. H.
Particle impact erosion. Volume 4. User's manual erosion prediction procedure for rocket nozzle expansion region
[AD-A131008] 02 p0186 N84-11209
WICKS, G. W.
Microwave, semiconductor research - materials, devices and circuits
[AD-A140052] 15 p2413 N84-25489
WICKS, S. M.
Crashworthiness: An illustrated commentary on occupant survival in general aviation accidents
[AD-A130198] 01 p0006 N84-10038
WICKSON, D.
Development and flight evaluation of an augmented stability active controls concept with a small horizontal tail
[NASA-CR-165951] 19 p2967 N84-28805
WICKSTED, J.
Dynamics of itinerant ferromagnets above T sub c
[DE84-002895] 15 p2402 N84-25420
WICKSTED, J. P.
Investigation of the paramagnetic phase of BCC iron using polarized neutron scattering
[DE84-002857] 07 p0974 N84-16315
WICKWAR, V. B.
MST radar data-base management
17 p2696 N84-27175
WICZER, J. J.
Ion-implanted strained-layer superlattice device
[DE84-000101] 05 p0754 N84-14949
Neutron damage effects in AlGaAs/GaAs solar cells
[DE84-009448] 21 p3435 N84-31791
Radiation effects in optoelectronic devices
[DE84-012889] 21 p3499 N84-32176
Irradiation of optimized, MBE grown, AlGaAs radiation hardened photodiode
[DE84-008034] 21 p3504 N84-32208
WIDDEL, H. U.
Results of foil cloud experiments performed at Esrange (Kiruna, Sweden) and Andenes (Andoya, Norway) during the Energy Budget Campaign, November 1981
[BMFT-FB-W-83-012] 07 p1034 N84-16710
WIDDER, P. A.
Data base generation: Improving the state-of-the-art
[AD-P003470] 21 p3512 N84-32245
WIDEGREN, I.
Third World Congress on Emergency and Disaster Medicine
[FOA-C-52005-H4] 20 p3260 N84-30692
WIDEN, A.
Design and calibration of a CW coherent laser radar
[FOA-C-30345-E1] 15 p2320 N84-24930
Practical problems with CO2 laser radar tests
[RAE-TRANS-2113] 22 p3600 N84-32804
WIDENER, A. L.
The Sacramento Peak fast microphotometer
18 p2841 N84-28040
WIDNER, M. M.
Ampfion hybrid diodes on hydramite and PBFA-1
[DE83-017824] 03 p0448 N84-12945
WIDNESS, S.
Low temperature geothermal resource evaluation of the Moses Lake-Ritzville-Connell area, Washington
[DE84-012505] 21 p3432 N84-31773
WIDROW, B.
Research on algorithms for adaptive array antennas
[AD-A131064] 01 p0072 N84-10469
Research on adaptive antenna techniques 5
[AD-A133676] 05 p0669 N84-14398
WIEDEMAN, S.
Transport properties of amorphous silicon-germanium alloy films. Volume 2: Appendices
[DE84-006879] 15 p2414 N84-25495
Transport properties of amorphous silicon-germanium alloy films. Volume 1: Technical summary
[DE84-006878] 15 p2414 N84-25497
WIEDENBECK, P.
Large area non-crystalline semiconductor detectors
06 p0912 N84-15925
WIEDER, H. H.
Surface and interfacial properties of Ga(0.47) In(0.53) As alloys
[AD-A131925] 03 p0451 N84-12970
WIEDERHOLD, D. A.
Matrix management in DoD: An annotated bibliography
[AD-A143316] 22 p3669 N84-33253
WIEDERHOLD, G. C. M.
S-1 software development and maintenance
[DE84-013071] 22 p3642 N84-33091
WIEDERHORN, S. M.
Effect of contact damage on the strength of ceramic materials
[AD-A133746] 05 p0658 N84-14327
Stress corrosion of ceramic materials
[AD-A136729] 10 p1467 N84-19581
WIEDERMANN, A. H.
Shock wave absorber having a deformable liner
[DE84-011308] 20 p3186 N84-30243
Shock wave absorber having apertured plate
[DE84-011271] 20 p3203 N84-30345
WIEDERSICH, H.
Study of ion bombardment-induced subsurface compositional modifications in Ni-Cu alloys at elevated temperatures by ion scattering spectroscopy
[DE84-003632] 08 p1135 N84-17380
Ion-induced surface modification of alloys
[DE84-006664] 14 p2243 N84-24468
WIEDWALD, J. D.
Ultrafast gated intensifier design for laser fusion X-ray framing applications
[DE84-007761] 15 p2339 N84-25038
WIEGAND, H.
High speed photography and pulsed laser holography for diagnostic investigations of mixture formation and vibration in reciprocating engines
[DFVLR-MITT-83-18] 12 p1819 N84-21857
WIEGER, G. P.
Machine monitoring for turning machine
[DE84-010214] 19 p3003 N84-29029
WIEGNER, M.
Angular corrections of satellite derived measurements of radiances
10 p1534 N84-20046
WIEHL, H. J.
Decimetric gyrosynchrotron emission during a solar flare
[NASA-TM-85123] 06 p0940 N84-16107
WIELENGA, T. J.
Simplifications in the simulation of mechanisms containing flexible members 22 p3607 N84-32855
WIELER, J. G.
An evaluation of an automatic cell detection and tracking algorithm
[AD-A130088] 01 p0107 N84-10894
Mesocyclone detection and classification algorithm
[AD-A131826] 03 p0411 N84-12691
WIELUNSKI, L.
Particle scattering studies on foreign ions in superionic conductors
[AD-A137231] 10 p1588 N84-20406
WIEMANN, H. J.
Genera use of CBN in tool grinding: Technology and economics
[CSIR-TRANS-1688] 01 p0056 N84-10367
Economical grinding of steel and sintered carbides using superhard abrasives and high temperature-resistant bonds
[CSIR-TRANS-1744] 22 p3563 N84-32562
WIEMER, W.
Development of large area Multi-coloured Multifunctional Displays (MFA) in liquid crystal technology
[BMFT-FB-T-83-098] 02 p0300 N84-11970
WIEMHOEFER, H. D.
Physico-chemical studies on copper sulfide. The CdS-Cu2S solar cell
[BMFT-FB-T-84-065] 19 p2990 N84-28947
WIENCEK, T. C.
Study of chromium-free and chromium-reduced steels
[DE83-016717] 03 p0353 N84-12294
WIENCLAW, R. A.
Determining cost and training effectiveness tradeoffs for trainer design: Test of an experimental model
[AD-P003455] 21 p3509 N84-32232
WIENER, H.
Asymmetric Wiener control
[AD-A134531] 07 p1067 N84-16926
WIERINGA, H.
Multidirectional force and moment transducer
17 p2629 N84-26816
WIERINGA, J.
Review of publications on the Dutch wind climate
[KNMI-TR-41(FM)] 10 p1539 N84-20081
Wind climate of the Netherlands
[ISBN-90-12-04466-9] 14 p2178 N84-24045
WIERZBICKI, W. M.
Detection and sizing of underbead cracks using ultrasonic nondestructive examination
[DE83-012205] 11 p1666 N84-20869
WIESEMANN, W.
Laser remote sensing measurements of natural target reflectivities 23 p3782 N84-33983
A CO2 laser transceiver package with Gbit/sec capability for space-to-space communications
24 p3905 N84-34731
WIESMANN, H.
Effect of silane fraction on the optoelectronic and photovoltaic properties of RF-glow-discharge a-Si:H prepared from SiH4 + H2 mixtures
[DE83-016730] 04 p0615 N84-14058
WIESNER, S.
Physiology 22 p3684 N84-33363
WIETING, A. R.
Modification of NASA Langley 8 foot high temperature tunnel to provide a unique national research facility for hypersonic air-breathing propulsion systems
[NASA-TM-85783] 16 p2454 N84-25733
WIEWALD, J. D.
High image quality sub 100 picosecond gated framing camera development
[DE84-008326] 19 p3028 N84-29203
WIGGERT, D. C.
Experimental validation of the component synthesis method for predicting vibration of liquid-filled piping
10 p1510 N84-19882
WIGGINS, A. R.
Cold forming and upsetting in the fastener industry
09 p1293 N84-18445
WIGGINS, C. P.
A study of DSN traveling wave maser system reliability
22 p3575 N84-32640
WIGGINS, D. J.
Thermal and hydraulic performance of a sieve-tray direct-contact heat exchanger
[DE84-000663] 04 p0537 N84-13531
WIGGINS, G.
Corrosion and oxidation of vanadium-base alloys
[DE84-003266] 09 p1285 N84-18393

WIGHTMAN, D. C.
Part-task training strategies in simulated carrier landing final approach training
[AD-A136670] 10 p1549 N84-20156
Part-task training of tracking in manual control
[AD-A138346] 12 p1868 N84-22175
WIGHTMAN, J. P.
A critical study of the role of the surface oxide layer in titanium bonding
[NASA-CR-174531] 01 p0041 N84-10266
Surface analysis of graphite fiber reinforced polyimide composites
[NASA-TM-85700] 02 p0188 N84-11220
Surface analysis in composite bonding
[NASA-CR-175353] 07 p0967 N84-16264
A fundamental approach to the sticking of insect residues to aircraft wings
[NASA-CR-173721] 18 p2791 N84-27717
WIGLE, G. B.
A corporate approach to an embedded software development and support standard
[AD-P003589] 21 p3340 N84-31194
WIGLEY, T. M. L.
Spatial patterns of climate and climatic change. Part 1: Summary report, appendices 1-5
[DE84-010253] 19 p3059 N84-29408
Seasonal climate scenarios for Europe and North America in a high-CO2, warmer world
[DOE/EV-10098/5] 23 p3801 N84-34104
WIJDIEKS, J.
Practice; criteria; provisions; mathematical descriptions: Examples
[PUBL-310] 16 p2487 N84-25951
WIJNHEIJMER, M. L.
Centralized warning systems for the new generation of airliners
[VTH-LR-373] 10 p1424 N84-19315
WIJNMALEN, D. J. D.
A system for policy analysis in manpower planning. Part 2: Design of the dialogue component
[AD-B082961] 20 p3313 N84-31043
WIKOFF, P. M.
Survey and assessment of heat of reaction type chemical heat pumps
[DE84-010988] 21 p3401 N84-31576
WIKTOROW, W.
Power plants in space
[AD-A142099] 19 p2983 N84-28902
WILBRINK, H. A.
Two infinite sequences of near polygons
[MC-ZW-194/83] 14 p2215 N84-24302
WILBUR, P. J.
Advanced ion thruster research
[NASA-CR-168340] 10 p1450 N84-19467
Ion extraction capabilities of two-grid accelerator systems
[NASA-CR-174621] 10 p1450 N84-19468
WILBURN, N. P.
Guidelines-software verification
[DE84-003899] 11 p1709 N84-21138
WILBY, E. G.
A comparison of measured take-off and flyover sound levels for several general aviation propeller-driven aircraft
[AD-A139901] 15 p2404 N84-25429
Propeller aircraft interior noise model
[NASA-CR-3813] 19 p3099 N84-29687
Application of stiffened cylinder analysis to ATP interior noise studies
[NASA-CR-172384] 22 p3652 N84-33147
WILBY, J. F.
A comparison of measured take-off and flyover sound levels for several general aviation propeller-driven aircraft
[AD-A139901] 15 p2404 N84-25429
Propeller aircraft interior noise model
[NASA-CR-3813] 19 p3099 N84-29687
Application of stiffened cylinder analysis to ATP interior noise studies
[NASA-CR-172384] 22 p3652 N84-33147
WILCOX, C. H.
Rational function frequency extrapolation in ultrasonic tomography
[AD-A131447] 02 p0288 N84-11888
WILCOX, C. J.
SCPP (Sierra Cooperative Pilot Project) forecasting support, volume 1
[PB84-107911] 08 p1194 N84-17782
WILCOX, D. C.
Development of a complete model of turbulence revisited
[AD-A138145] 12 p1816 N84-21836
WILCOX, R.
ECUT: Energy Conversion and Utilization Technologies program - Biocatalysis research activity
[NASA-CR-173752] 18 p2868 N84-28207
WILCOX, R. B.
Novette pulse-power-system description
[DE83-018185] 06 p0918 N84-15968
Silicon switch development for optical pulse generation in fusion lasers at Lawrence Livermore National Laboratory
[DE84-002798] 07 p1011 N84-16556
WILCOX, R. C.
Effect of heat treatment on the impact properties of a 12Cr-1Mo-V-W steel
[DE84-003440] 07 p0976 N84-16324
Austenitizing and microstructure of a HT-9 steel
[DE84-004914] 11 p1635 N84-20687
WILCOX, R. E.
ECUT: Energy Conversion and Utilization Technologies program. Chemical Processes project report, FY 1982
[NASA-CR-173212] 07 p1025 N84-16642
ECUT: Energy Conversion and Utilization Technologies program. Industry, university and research interest in the US Department of Energy ECUT biocatalysis research activity
[NASA-CR-173553] 15 p2361 N84-25167
WILCOX, R. W.
Tabulations of ozonesonde data, 1963 - 1980
[NASA-CR-174631] 17 p2733 N84-27375
WILCOX, W. R.
Use of the Burton-Prim-Slichter equation at high growth rates 18 p2936 N84-28622
WILCOXON, J.
Tapered-wiggler free-electron laser oscillator program
[AD-A144053] 23 p3755 N84-33799
WILCZAK, J. M.
A study of the convective atmospheric boundary and surface layers 02 p0246 N84-11609
WILCZEC, T.
R-35 computer shortcomings 24 p3961 N84-35080
WILDE, D.
Development of thermionic integrated circuits for applications in hostile environments
[DE84-011374] 21 p3393 N84-31533
WILDER, J. A., JR.
Alkali-free phosphate glasses for high temperature, high electrical resistivity applications
[DE84-011533] 20 p3164 N84-30091
WILDER, J. G.
Chemical treatment of silicate glasses for producing anti-reflection surfaces
[DE84-005865] 11 p1732 N84-21299
Laser damage in porous-silica antireflection films
[DE84-009535] 19 p3030 N84-29216
WILDER, P. D.
Planet-crossing asteroid survey 15 p2427 N84-25580
WILDERMUTH, P. F.
Airloads research study. Volume 1: Flight test loads acquisition
[NASA-CR-170409] 08 p1103 N84-17173
Airloads research study. Volume 2: Airload coefficients derived from wind tunnel data
[NASA-CR-170410] 08 p1103 N84-17174
WILDING, M. M.
The effects of weather on rapid runway repair, volume 2
[AD-A130350] 01 p0016 N84-10105
WILDMAN, G. C.
Improved polymers for enhanced-oil-recovery synthesis and rheology
[DE83-017371] 04 p0507 N84-13324
WILDMAN, W. J.
Color display technology in advanced fighter cockpits 06 p0772 N84-15061
WILEMSKI, G.
Molten carbonate fuel cell performance model update
[DE84-012932] 22 p3589 N84-32733
WILETS, L.
Soliton bag: Dynamics and the quark plasma
[DE84-001103] 05 p0745 N84-14895
WILEY, B. J.
Microbial evaluation of some adhesive formulations and adhesive bases
[AD-A141659] 19 p2999 N84-29005
WILEY, D. S.
Single and multiple fiber models for fracture of fibrous composites 21 p3356 N84-31266
WILEY, J. C.
Variational method for the three-dimensional inverse-equilibrium problem in toroids: Part 2
[DE83-012925] 01 p0149 N84-10981
WILEY, R.
Tornado Wind Energy Conversion System (TWECS) evaluation program
[PB83-227207] 01 p0103 N84-10669
Experiment in benchmarking database systems
[DE84-003840] 11 p1750 N84-21423
WILGEN, J. B.
Preionization and start-up in the ISX-B Tokamak using electron cyclotron heating at 28 GHz
[DE84-002261] 06 p0920 N84-15984
WILHEIT, T. T.
Sea surface temperatures from the Nimbus-7 scanning multichannel microwave radiometer 12 p1835 N84-21963
Passive microwave characteristics of the Bering Sea ice cover during Marginal Ice Zone Experiment (MIZEX) West 23 p3773 N84-33917
WILHELM, J.
A SAR for real-time ice reconaissance 23 p3765 N84-33869
WILHELM, K.
Fast magnetospheric echoes of energetic electron beams 05 p0636 N84-14187
In-flight investigation of landing approach flying qualities of transport aircraft with relaxed static stability
[DFVLR-FB-84-11] 17 p2610 N84-26706
Observations of fast magnetospheric echoes of artificially injected electrons above an auroral arc
[BMFT-FB-W-84-014] 19 p3055 N84-29390
WILHELM, R.
Far field radiation patterns from open ended oversized circular waveguides and identification of multimode outputs of gyrotrons
[IPF-83-5] 12 p1911 N84-22454
WILHELMI, H.
Nitriding with a pulsed glow discharge
[BLL-OA-TRANS-3168-(6169.3)] 08 p1128 N84-17335
WILHELMS, D. E.
The Borealis Basin of Mars 13 p2079 N84-23472
WILHELMS, S. C.
Measurements of dissolved gases at Corps of Engineers projects
[AD-A142727] 20 p3170 N84-30130
WILKE, C. R.
Nutritional and environmental factors in ethanol fermentation by Saccharomyces cerevisiae
[DE84-009693] 20 p3167 N84-30110
WILKE, G. D.
Crop moisture estimation over the southern Great Plains with dual polarization 1.66 centimeter passive microwave data from Nimbus 7
[E84-10163] 17 p2710 N84-27255
WILKEN, B.
The ISPM solar-wind ion composition spectrometer 09 p1261 N84-18232
WILKENFELD, J.
Space electron-induced discharge coupling into satellite electronics
[AD-P002114] 16 p2523 N84-26200
WILKENING, K. E.
Intermediate-range grid model and user's guide for atmospheric sulfur dioxide and sulfate concentrations and depositions: Wisconsin Power Plant Impact Study
[PB84-189257] 20 p3238 N84-30556
WILKERSON, J. B.
A model of rotor blade first natural flapping response for up to three/rev excitations
[AD-A141725] 19 p2963 N84-28782
WILKERSON, J. E.
High performance liquid chromatographic studies of the ion exchange selectivity of Nafion
[AD-A144646] 24 p3881 N84-34585
WILKERSON, J. F.
System for producing high-resolution polarized and unpolarized beams with a tandem accelerator
[DE84-004054] 09 p1388 N84-19063
WILKERSON, R. B.
Predictability of inversions at Vandenberg (VBG) AFB, California
[AD-A144042] 23 p3802 N84-34107
WILKES, D.
Development of an improved protective cover/light block for multilayer insulation
[NASA-TM-82563] 06 p0809 N84-15269
WILKES, D. R.
Thermal control surface experiment (S0069) 15 p2273 N84-24649
WILKES, J. S.
Nuclear magnetic resonance studies of molten salts
[AD-A141751] 19 p2988 N84-28935
WILKINS, D.
Spacecraft interface design and its impact on operational support
[ESA-STR-211] 03 p0342 N84-12220
WILKINS, D. E.
Research on parallelism in problem-solving systems
[AD-A144414] 24 p3954 N84-35036
WILKINS, D. J.
The engineering significance of defects in composite structures 01 p0035 N84-10222

WILKINS, H.
Graphic and visual presentation of aerospace data
11 p1751 N84-21431
WILKINS, J. D.
Surface contamination from actinide solutions
[AERE-R-11046] 18 p2816 N84-27879
WILKINS, J. W.
Band-overlap metallization of BaS, BaSe and BaTe
[NASA-CR-173396] 12 p1912 N84-22458
WILKINS, M. L.
Modelling the behavior of materials
[DE84-000154] 04 p0545 N84-13588
Dynamic powder compaction
[DE84-006133] 20 p3170 N84-30132
WILKINS, M. W.
Approaches for updating databases with incompleted information and nulls
[AD-A144319] 24 p3969 N84-35130
WILKINS, N. J. M.
The detection of pitting corrosion in stainless steel using double-layer activation
[AERE-R-9751] 01 p0047 N84-10304
An AC impedance study of steel in concrete
[AERE-R-11132] 18 p2835 N84-27997
WILKINS, R. L.
Modeling study of a CW HF resonance transfer laser medium
[AD-A134866] 08 p1164 N84-17580
WILKINSON, C. L.
Factors that influence space station propulsion requirements 20 p3139 N84-29931
WILKINSON, D.
Effect of antimony on lead-acid battery negative electrode
[DE83-014680] 03 p0369 N84-12404
WILKINSON, D. T.
Microwave and theoretical studies for Cosmic Background Explorer satellite
[NASA-CR-175248] 18 p2954 N84-28721
WILKINSON, G. T.
Infrared characteristics of gas plumes
[AD-A131796] 03 p0349 N84-12269
WILKINSON, M. K.
Solid-State Division
[DE84-000296] 04 p0613 N84-14045
WILKINSON, R. L.
Effects of bonding temperatures on fatigue crack growth
[AD-A130396] 01 p0094 N84-10615
WILL, R. W.
An operating system for future aerospace vehicle computer systems
[NASA-TM-85784] 16 p2546 N84-26340
WILLAM, K. J.
Identification of strain-softening properties and computational predictions of localized fracture
[AD-A141866] 19 p3036 N84-29258
WILLAN, V. O.
High temperature adhesive silicone foam composition, foam generating system and method of generating foam
[DE84-014315] 23 p3725 N84-33605
WILLBANKS, E. W.
Network file-storage system
[DE84-001068] 04 p0585 N84-13863
WILLEM, M.
Multiple critical points of invariant functionals and applications
[AD-A130544] 01 p0130 N84-10853
WILLEMS, F. M. J.
Computation of the Wyner-Ziv rate distortion function
[EUT-83-E-140] 10 p1484 N84-19699
WILLEMS, G. C.
A detailed evaluation of the Endevco model 7302 (trade name) angular accelerometer
[AD-A134882] 08 p1162 N84-17562
WILLEN, E.
Magnetic field measurements of superconducting magnets for the colliding beam accelerator
[DE83-017351] 04 p0603 N84-13982
WILLENBORG, L. C. R. J.
Regression analysis of fragment perforation data
[PML-1982-4] 12 p1821 N84-21873
WILLERMET, P. A.
Time-temperature studies of high temperature deterioration phenomena in lubricant systems: Synthetic ester lubricants
[AD-A135464] 08 p1166 N84-17594
WILLERTON, D. L.
Cray/VAX interactive graphics system
[DE84-003826] 10 p1564 N84-20249
WILLETT, N. F.
Target for optically activated seekers and trackers
[AD-D011059] 22 p3655 N84-33171
WILLHITE, J. R.
Maintenance-free, deep-discharge, lead-acid battery for photovoltaic applications: Phase two
[DE83-013561] 02 p0214 N84-11401
WILLI, O.
A convective mechanism for inhibition of heat conduction in laser produced plasmas
[DE84-011336] 20 p3194 N84-30289
WILLIAMS, A.
EXAFS studies of the metallic glass La80Ga20
[DE84-002022] 06 p0811 N84-15278
WILLIAMS, A. C.
The AXAF technology program: The optical flats tests
[NASA-TM-82570] 10 p1578 N84-20341
WILLIAMS, B.
Distributions of central quadratic forms in normal variables: A comparison of algorithms
[AD-A143468] 22 p3646 N84-33116
WILLIAMS, C. A.
Experiments on factors that influence muscular function in man
[AD-A133928] 06 p0888 N84-15771
Cardiovascular and respiratory responses to muscular activity during immersion in water at different temperatures
[AD-A138894] 14 p2185 N84-24094
WILLIAMS, C. S.
Superregenerative amplifier in linear mode as a radar range gate-derivations
[DE84-000978] 04 p0528 N84-13474
WILLIAMS, C. W.
Fundamental mode rectangular waveguide system for Electron-Cyclotron Resonant Heating (ECRH) for tandem mirror experiment-upgrade (TMX-U)
[DE84-009085] 15 p2322 N84-24940
Microwave measurement test results of circular waveguide components for Electron Cyclotron Resonant Heating (ECRH) of the Tandem Mirror Experiment-Upgrade (TMX-U)
[DE84-009538] 19 p3108 N84-29746
WILLIAMS, D.
V-band IMPATT transmitter
[NASA-CR-175249] 18 p2832 N84-27976
WILLIAMS, D. E.
The use of airborne thematic mapper simulation data for the estimation and mapping of Green Leaf Area Index (GLAI) 03 p0398 N84-12602
A new electrochemical technique for evaluation of susceptibility to pitting corrosion
[AERE-M-3372] 18 p2817 N84-27883
An AC impedance study of steel in concrete
[AERE-R-11132] 18 p2835 N84-27997
WILLIAMS, D. J.
Characteristics of the magnetospheric source of interplanetary energetic particles
16 p2573 N84-26512
Energetic particle sounding at the magnetopause and implications for magnetic reconnection
[NASA-CR-173963] 23 p3799 N84-34086
WILLIAMS, D. L.
Impact of Thematic Mapper sensor characteristics on classification accuracy 20 p3213 N84-30410
Quick look analysis of TM data of the Washington, District of Columbia area 20 p3214 N84-30418
WILLIAMS, E.
The effect of queueing disciplines on response times in distributed systems
[DE84-012639] 22 p3641 N84-33086
WILLIAMS, E. J.
Current velocity profiles in the Straits of Florida from the Pegagus current profiler: Subtropical Atlantic Climate Study 1982
[PB84-154335] 14 p2183 N84-24084
WILLIAMS, F.
Coordinated research program in pulsed power physics
[AD-A129554] 01 p0138 N84-10905
WILLIAMS, F. S.
Specific surface measurements of shock-modified powders
[DE83-016230] 02 p0196 N84-11275
WILLIAMS, F. W.
Software for a computer controlled laser Doppler velocimeter
[AD-A143786] 23 p3815 N84-34193
WILLIAMS, G. A.
Studies of cataclysmic variables
04 p0619 N84-14084
WILLIAMS, G. C.
Interply layer degradation effects on composite structural response
[NASA-TM-83702] 17 p2618 N84-26756
WILLIAMS, G. P.
Channel electron multiplier and optically coupled amplifier used as an incident-flux monitor
[DE84-001451] 04 p0538 N84-13539
Photoemission studies of mixed valent systems
[DE84-010797] 20 p3310 N84-31020
WILLIAMS, G., JR.
Evaluation of the separability of monodisperse polystyrene latex microspheres in a continuous flow electrophoresis system 06 p0932 N84-16057
WILLIAMS, H. E.
Developing a 500-eV proton beam
[DE83-012781] 03 p0439 N84-12880
Rubidium frequency standard study
[AD-A134713] 08 p1151 N84-17492
WILLIAMS, J. A.
Super integrated power unit for fighter aircraft
03 p0395 N84-12183
WILLIAMS, J. B.
An investigation of the existence of a surface water layer on aircraft radomes during simulated flight in heavy precipitation
[NASA-TM-85813] 19 p3003 N84-29035
Theoretical and experimental studies of error in square-law detector circuits
[NASA-TM-86307] 23 p3741 N84-33714
WILLIAMS, J. C.
Effects of alloy composition and processing on the microstructure of D-9 type stainless steel
[DE84-003022] 07 p0975 N84-16321
The effects of deformation mode and microstructure fracture-related properties of Ti alloys
[AD-A142891] 21 p3366 N84-31353
WILLIAMS, J. E. C.
High-field Tokamaks with DD-DT operation and tritium-breeding requirements
[DE83-013092] 02 p0296 N84-11939
WILLIAMS, J. G.
Concepts for improving the damage tolerance of composite compression panels
[NASA-TM-85748] 09 p1329 N84-18678
Effect of impact damage and open holes on the compression strength of tough resin/high strain fiber laminates
[NASA-TM-85756] 11 p1627 N84-20650
Comparison of toughened composite laminates using NASA standard damage tolerance tests
20 p3145 N84-29972
Compression failure mechanisms in unidirectional composites
[NASA-TM-85834] 23 p3711 N84-33523
WILLIAMS, J. I.
Human response to pyridostigmine bromide
[AD-A140960] 18 p2900 N84-28395
WILLIAMS, J. M.
Pressure studies of organic superconductors
[DE83-015344] 01 p0155 N84-11021
Ion beam modification of ceramics
[DE84-003302] 08 p1138 N84-17403
Ion implantation, ion beam mixing and annealing studies of metals in Al2O3, SiC and Si3N4
[DE84-012336] 20 p3157 N84-30052
WILLIAMS, J., JR.
Input-output characterization of an ultrasonic testing system by digital signal analysis
[NASA-CR-3756] 06 p0854 N84-15565
WILLIAMS, M. D.
Intensity and absorbed-power distribution in a cylindrical solar-pumped dye laser
[NASA-TP-2321] 14 p2150 N84-23878
WILLIAMS, M. S.
Vertical drop test of a transport fuselage section located forward of the wing
[NASA-TM-85679] 01 p0094 N84-10611
Vertical drop test of a transport fuselage center section including the wheel wells
[NASA-TM-85706] 03 p0388 N84-12531
WILLIAMS, M. Z.
Optical constant determination of thin films condensed on transmitting and reflecting substrates
[AD-A140845] 17 p2768 N84-27578
WILLIAMS, P.
Insulin and cortisol improve heat tolerance in isolated perfused rat liver
[AD-A133382] 07 p1042 N84-16758
A model of radar propagation and detection
[AD-A139531] 14 p2141 N84-23834
WILLIAMS, P. D. L.
10 cm radar ground clutter measurements taken from a coastal steamer radar on passage from Bergen to North Cape in May 1982 06 p0871 N84-15667
WILLIAMS, P. E.
The possible unifying effect of the dynamic theory
[DE83-014082] 02 p0301 N84-11973
WILLIAMS, P. L.
Mineral resources of Antarctica
14 p2160 N84-23937
Geology of the Neptune Range, Antarctica
14 p2162 N84-23946

WILLIAMS, P. M.
Nova Aquilae 1982: The nature of its dust
16 p2572 N84-26504
Nova Aquilae 1982: The nature of its dust
18 p2950 N84-28703
WILLIAMS, R. A.
Evaluation of UH-1H hover performance degradation caused by rotor icing
[AD-A141252] 18 p2793 N84-27727
WILLIAMS, R. B.
Integrated testing and maintenance technologies
[AD-A138587] 13 p1925 N84-22528
WILLIAMS, R. F.
Management of risk and uncertainty in systems acquisition: Proceedings of the 1983 Defense Risk and Uncertainty Workshop
[AD-A136230] 09 p1397 N84-19124
Designing the equitable risk contract
[AD-P002756] 13 p2051 N84-23303
WILLIAMS, R. H.
Metal contacts in semiconductors
[AD-A136109] 09 p1396 N84-19120
WILLIAMS, R. K.
Transport properties of polycrystalline Ni3Al
[DE84-001969] 05 p0656 N84-14313
WILLIAMS, R. L.
Performance tests of 4-5 year old lithium sulphur dioxide batteries
[AD-A139842] 15 p2363 N84-25176
WILLIAMS, R. M.
Photoelectrochemical electrodes
[NASA-CASE-NPO-15458-1] 03 p0348 N84-12262
Corrosion resistant coating
[NASA-CASE-NPO-15928-1] 03 p0352 N84-12289
Chemically rechargeable battery
[NASA-CASE-NPO-16024-1] 13 p2007 N84-23020
WILLIAMS, R. S.
Electron localization and superconductivity of very thin epitaxially grown ag films on ge(001)
[AD-A143469] 22 p3663 N84-33224
WILLIAMS, R. S., JR.
Satellite image atlas of glaciers: The Polar regions
14 p2161 N84-23940
Glacological and geological studies of Antarctica with satellite remote sensing technology
14 p2163 N84-23956
WILLIAMS, S.
Monitoring of the Stanford Linac microbunches' position
[DE83-012712] 03 p0433 N84-12840
Desert pavement study at Amboy, California
13 p2082 N84-23492
WILLIAMS, S. D.
Columbia: The first five flights. Entry heating data series. Volume 6: The upper leeside surface centerline
[NASA-CR-171795] 22 p3541 N84-32414
Columbia: The first 5 flights entry heating data series. Volume 5: The side fuselage and payload bay door
[NASA-CR-171732] 22 p3541 N84-32416
WILLIAMS, T. A.
Innovative industrial-materials processes
[DE83-016784] 03 p0405 N84-12649
WILLIAMS, T. C.
Organosilane polymers. 5: Hydrosilyl-modified polycarbosilane precursors for silicon carbide
[AD-A141546] 19 p2999 N84-29002
Organosilane polymers. 6: Branched polysilahydrocarbon precursors for silicon carbide
[AD-A141558] 19 p2999 N84-29003
WILLIAMS, W. D.
Carbon piezoresistive stress gauge
[DE83-016505] 02 p0224 N84-11470
Multichannel detection systems available for flow diagnostics at AEDC
[AD-A132302] 16 p2452 N84-25722
WILLIAMS, W. F.
Deformable subreflector computed by geometric optics 04 p0519 N84-13407
WILLIAMS, W. J.
Statistical review of counting accelerometer data for Navy and Marine fleet aircraft from 1 January 1962 to 31 December 1982
[AD-A134289] 07 p0951 N84-16169
WILLIAMS, W. R.
Evaluation of the performance of filter separators with gasohol
[AD-A139645] 15 p2343 N84-25066
WILLIAMSON, C. L.
Productivity measurement in software engineering
[PB83-227330] 01 p0160 N84-11054
WILLIAMSON, D. L.
Description of NCAR (National Center for Atmospheric Research) community climate model (CCMOB)
[PB83-231068] 01 p0110 N84-10715
Documentation of NCAR (National Center for Atmospheric Research) CCMOB program modules
[PB83-263996] 05 p0710 N84-14651
WILLIAMSON, K. D., JR.
Assessment of fuel cell propulsion systems
[DE84-006323] 15 p2420 N84-25536
WILLIAMSON, P. R.
Electron beam experiments aboard the Space Shuttle
05 p0638 N84-14195
Electrodynamic tether experiments in the ionosphere
05 p0642 N84-14222
WILLIAMSON, R. G.
On gravity from SST, geoid from SEASAT, and plate age and fracture zones in the Pacific
[E84-10025] 02 p0238 N84-11559
WILLIAMSON, S. A.
Organizational structures, processes, and problems: A literature review and taxonomy
[AD-A140979] 18 p2943 N84-28665
WILLIAMSON, S. E.
Piece-wise analytic evaluation of the radiative tail from elastic and inelastic electron scattering
[PB84-155290] 14 p2223 N84-24342
WILLIAMSON, S. J.
Perception of higher derivatives of visual motion
[AD-A133908] 06 p0888 N84-15773
Neuromagnetic investigation of workload and attention
[AD-A136172] 10 p1548 N84-20147
WILLIE, R. D.
Land use inventory of Salt Lake County, Utah from color infrared aerial photography 1982
[E84-10015] 02 p0237 N84-11553
WILLIGES, B. H.
Human-computer interactions and decision behavior
[AD-A139759] 15 p2384 N84-25299
WILLIGES, R. C.
Human-computer interactions and decision behavior
[AD-A139759] 15 p2384 N84-25299
WILLIS, A. E.
A dc to dc converter
[NASA-CASE-MFS-25430-1] 07 p0995 N84-16453
WILLIS, C.
Inverse torsional Eigenvalue problems
[DE84-002568] 05 p0704 N84-14621
Revegetation methods for arid areas, revised
[AD-A139088] 14 p2170 N84-23997
WILLIS, C. M.
Noise-reduction measurements of stiffened and unstiffened cylindrical models of an airplane fuselage
[NASA-TM-85716] 09 p1386 N84-19052
WILLIS, C. R.
Effect of driving laser fluctuations on optical bistability
14 p2235 N84-24413
WILLIS, E. A.
An overview of NASA intermittent combustion engine research
[NASA-TM-83668] 15 p2261 N84-24583
WILLIS, J. C.
Pressure-dependent resistive behavior of YbBe13
[DE84-010068] 22 p3555 N84-32514
WILLIS, J. O.
Impurities in the heavy-Fermion superconductor UBe13
[DE84-001731] 05 p0755 N84-14951
WILLIS, P. B.
Investigation of test methods, material properties, and processes for solar cell encapsulants
[NASA-CR-173755] 18 p2868 N84-28209
Investigation of test methods, material properties and processes for solar cell encapsulants
[NASA-CR-173748] 18 p2870 N84-28219
Investigation of test methods, material properties and processes for solar cell encapsulants
[NASA-CR-173940] 23 p3789 N84-34029
WILLIS, R. E.
Collision widths of CO lines broadened by water vapor at elevated temperatures
[AD-A136121] 09 p1323 N84-18644
WILLIS, W. J.
Experience of the axial field spectrometer at the CERN ISR 06 p0910 N84-15912
WILLISON, J. R.
Laser techniques for extreme-ultraviolet spectroscopy
[DE83-014834] 02 p0227 N84-11486
WILLMAN, A. J.
Development of an evaluation methodology for passive solar design tools 16 p2516 N84-26148
WILLMOTT, C. J.
A climatically-derived global soil moisture data set for use in the GLAS atmospheric circulation model seasonal cycle experiment
[NASA-CR-173289] 08 p1188 N84-17729
WILLNER, R. P.
A saturable interferometer theory of absorptive optical bistability 14 p2238 N84-24435
WILLNER, S. P.
Infrared astronomy research and high altitude observations
[NASA-CR-173526] 13 p2070 N84-23413
Abundances in galactic H2 regions, 3: G25.4-0.2, G45.5+0.06, M8, S159 and DR22
[NASA-TM-85982] 17 p2774 N84-27616
WILLOUGHBY, P. C.
Coupling between velocity oscillations and solid propellant combustion 13 p1944 N84-22643
WILLS, B. J.
The 1978 - 1984 fading of the Seyfert 1 galaxy F-9
24 p3972 N84-35149
WILLS, D.
The 1978 - 1984 fading of the Seyfert 1 galaxy F-9
24 p3972 N84-35149
WILLS, R. R.
Hot isostatic pressing of ceramic powder compacts
[AD-A131514] 01 p0050 N84-10324
Hot isostatic pressing of ceramic powder compacts
[AD-A144123] 24 p3868 N84-34821
WILLSHIRE, K. F.
Aircraft and background noise annoyance effects
[NASA-TM-85744] 09 p1386 N84-19051
WILLSHIRE, W. L., JR.
Investigation of effects of microphone position and orientation on near-ground noise measurements
[NASA-TP-2004] 01 p0139 N84-10913
WILLSKY, A. D.
Optimal maneuver detection and estimation in multiobject tracking
[AD-P002899] 13 p1981 N84-22858
WILLSKY, A. S.
Tracking theory for airborne surveillance radars
[AD-A131792] 03 p0361 N84-12350
Redundancy relations and robust failure detection
[NASA-CR-173252] 07 p1058 N84-16854
An algebraic approach to analysis and control of time-scales
[AD-A135115] 08 p1218 N84-17949
Detection of abrupt changes in dynamic systems
[NASA-CR-173217] 08 p1223 N84-17968
Optimally robust redundancy relations for failure detection in uncertain systems
[NASA-CR-173166] 09 p1377 N84-18997
Status report on asymptotic methods for the analysis, estimation, and control of stochastic dynamic systems
[AD-A140931] 18 p2925 N84-28547
WILLSON, R. C.
Solar Irradiance Variations on Active Region Time Scales
[NASA-CP-2310] 17 p2778 N84-27635
Solar total irradiance variability measurements by the SMM/ACRIM I experiment 17 p2778 N84-27636
WILLSON, R. F.
Very Large Array observations of solar active regions. 4: Structure and evolution of radio bursts from 20 cm loops
[AD-A133907] 06 p0940 N84-16109
The circularly polarized sun at 12.6 cm wavelength
[AD-A133668] 06 p0940 N84-16110
Possible detection of thermal cyclotron lines from small sources within solar active regions
[AD-A136218] 10 p1597 N84-20466
WILMES, L. A. H.
Interruption of a dry-type transformer in no-load by a vacuum circuit-breaker
[EUT-83-E-141] 10 p1489 N84-19737
WILNAI, D.
MIL-STD-1750A microprocessor chip set development
[AD-P003548] 21 p3334 N84-31152
WILNER, D. O.
An automated stall-speed warning system
[NASA-TM-84917] 11 p1607 N84-20520
WILNER, S. P.
Publications resulting from Infrared Astronomy Research and High Altitude Observations
[NASA-CR-173525] 13 p2070 N84-23414
WILREKER, V. F.
Wind turbine generator interaction with conventional diesel generators on Block Island, Rhode Island. Volume 1: Executive summary
[NASA-CR-168318] 19 p3050 N84-29357
Wind turbine generator interaction with conventional diesel generators on Block Island, Rhode Island. Volume 2: Data analysis
[NASA-CR-168319] 21 p3433 N84-31783
WILSON, A.
The United Kingdom SATMaP program
[E84-10002] 04 p0551 N84-13827
Workshop on Multiprocessors for High Performance Parallel Computation
[PB84-152677] 14 p2204 N84-24229
WILSON, A. F.
Behavioral change of blood lactate metabolism
[PB84-100171] 08 p1204 N84-17850

WILSON, B. G.
150 hour engine test of corrosion inhibited MIL-L-23699C oil
[AD-A131633] 03 p0356 N84-12317
WILSON, C. H.
Estimation of uncertainty in coal resources
[DE83-902598] 03 p0401 N84-12620
WILSON, C. J.
New techniques for adjusting reference factors
[DE84-012649] 22 p3675 N84-33300
WILSON, C. M.
Predicted and flight test results of the performance, stability and control of the space shuttle from reentry to landing 01 p0022 N84-10136
WILSON, C. R.
Hydrogen-evolution monitoring as a measure of steam-generator corrosion
[DE83-900677] 01 p0044 N84-10285
WILSON, D.
Space shuttle descent flight control design requirements and experiments Learned, Pt. 1 p 617-626 01 p0022 N84-10142
Current velocity profiles in the Straits of Florida from the Pegagus current profiler: Subtropical Atlantic Climate Study 1982
[PB84-154335] 14 p2183 N84-24084
Development of color criteria for advanced displays
[AD-A143246] 22 p3630 N84-33006
WILSON, D. B.
Estimated effects of ionizing radiation upon military task performance: Individual combat crewmember assessment
[AD-P003255] 18 p2905 N84-28422
WILSON, D. G.
Modeling binary-alloy solidification processes: Numerical implementation
[DE84-001587] 04 p0501 N84-13284
Modeling binary alloy solidification processes
[ORNL/CSD-117] 16 p2464 N84-25790
WILSON, D. J.
RIM as the data base management system for a material properties data base 12 p1891 N84-22312
WILSON, D. M.
Role of Al-2O-3 in sintering of submicron yttria-stabilized ZrO-2 powders
[AD-A136798] 10 p1460 N84-19533
WILSON, D. W.
Influence of constituent properties and geometric form on behavior of woven fabric reinforced composites
[NASA-CR-173326] 09 p1275 N84-18326
WILSON, E.
Mariners Weather Log, volume 27, number 2, Fall 1983
[PB84-133115] 10 p1541 N84-20100
WILSON, E. A.
Water resources data for Colorado, water year 1982. Volume 3: Dolores River Basin, Green River Basin, and San Juan River Basin
[PB84-120146] 09 p1339 N84-18743
WILSON, E. E.
Mariners Weather Log, Spring 1983, volume 27, number 2
[PB83-220491] 01 p0109 N84-10708
Mariners Weather Log, Volume 28, Number 1, January-February-March 1984
[PB84-175710] 17 p2735 N84-27385
WILSON, G. S.
Satellite Precipitation and Cloud Experiment (SPACE) 24 p3931 N84-34887
Automated mesoscale winds derived from GOES multispectral imagery 24 p3933 N84-34895
Sensor studies and space flight opportunities 24 p3933 N84-34896
WILSON, G. T.
A unified approach to ARMA (autoregressive-moving average) model identification and preliminary estimation
[AD-A136426] 09 p1381 N84-19020
WILSON, G. W.
NASA-FAA helicopter Microwave Landing System curved path flight test
[NASA-TM-85933] 14 p2103 N84-23617
WILSON, H. A.
The reduction of life-cycle costs through continuing acrylic maintenance
[AD-P003224] 17 p2596 N84-26637
WILSON, J.
NASA Scientific and Technical Information System (STI) and new directory of numerical data bases 11 p1749 N84-21413
Precipitation and precipitation efficiencies derived from single Doppler radar 18 p2887 N84-28321
Doppler weather radar applications to terminal and enroute air traffic control 18 p2887 N84-28324
WILSON, J. A.
HgCdTe surface study program
[AD-A132071] 03 p0349 N84-12266
HgCdTe surface and defect study program
[AD-A142342] 20 p3308 N84-31010
WILSON, J. C.
Helicopter anti-torque system using strakes
[NASA-CASE-LAR-13233-1] 23 p3692 N84-33400
WILSON, J. D.
Middle latitude forcing of a model tropical atmosphere with horizontally nonuniform basic states 06 p0880 N84-15724
WILSON, J. F.
The greenstone belts of Zimbabwe 11 p1681 N84-20968
WILSON, J. L.
Adjoint sensitivity theory for steady-state ground-water flow
[DE84-003335] 09 p1337 N84-18732
C3I system modification and EMC (electromagnetic compatibility) methodology, volume 1
[AD-A141420] 19 p3004 N84-29041
WILSON, J. R.
Direct measurement of high frequency solid propellant response functions 13 p1945 N84-22649
WILSON, J. W.
A simple model of space radiation damage in GaAs solar cells
[NASA-TP-2242] 04 p0603 N84-13978
Intermediate energy proton stopping power for hydrogen molecules and monoatomic helium gas 07 p1071 N84-16955
Low-energy proton stopping power of N2, O2 and water vapor and deviations from Bragg's rule 07 p1071 N84-16956
Threshold kinetics of a solar-simulator-pumped iodine laser
[NASA-TP-2241] 08 p1163 N84-17575
Neon transport in selected organic composites
[NASA-TM-85693] 08 p1231 N84-18044
Mean excitation energies for stopping powers in various materials using local plasma oscillator strengths
[NASA-TP-2271] 11 p1760 N84-21485
Dose in critical body organs in low Earth orbit
[NASA-TM-85778] 12 p1867 N84-22169
An abrasion-ablation model description of galactic heavy-ion fragmentation
[NASA-TP-2305] 12 p1903 N84-22396
Equivalent electron fluence for solar proton damage in GaAs shallow junction cells 19 p3046 N84-29324
Human exposure in low Earth orbit
[NASA-TP-2344] 19 p3070 N84-29479
WILSON, K. L.
Magnetic fusion energy plasma interactive and high heat flux components. Volume 1: Technical assessment of the critical issues and problem areas in the plasma materials interaction field
[DE84-011527] 20 p3302 N84-30969
WILSON, K. R.
Experimental picosecond transient spectra for i2 photodissociation in liquids
[AD-A134371] 07 p0969 N84-16282
Electronic spectra from molecular dynamics: A simple approach
[AD-A134325] 07 p1071 N84-16961
WILSON, L.
The effect of some water-displacing corrosion preventatives on corrosion of aluminum alloys 7075-T651 and 2024-T6
[ARL-MAT-REPT-115] 07 p0973 N84-16307
Theoretical aspects of photoclinometric terrain profiling on the Galilean satellites 13 p2074 N84-23441
WILSON, L. A.
Proceedings of the 8th Annual Mechanics of Composites Review
[AD-A130750] 01 p0031 N84-10196
WILSON, M.
High-current railgap studies
[DE83-013859] 02 p0290 N84-11898
WILSON, M. E.
Does the Prompt Payment Act insure timely contract payment?
[AD-P002778] 13 p2054 N84-23325
WILSON, M. L.
Measurement of two-phase flow velocity using a laser Doppler anemometer
[DE83-013522] 01 p0082 N84-10531
Electroless-plating technique for fabricating thin-wall convective heat-transfer models
[NASA-TP-2349] 21 p3399 N84-31561
WILSON, P.
The mobile laser ranging system and its planned use in the framework of international research on geodynamics 08 p1174 N84-17649
The observation of artificial satellites and VLBI 10 p1519 N84-19946
Design and operation mode of Nd:YAP lasers in Modular Transportable Laser Ranging System (MTLRS) 19 p3040 N84-29290
WILSON, P. B.
Damping ring rf system for SIC
[DE83-011853] 01 p0143 N84-10938
High pulse power RF sources for linear colliders
[DE84-003517] 07 p0999 N84-16477
WILSON, P. D.
Field emission electric propulsion: Additional propellants: Further tests on indium and alloys
[R664] 06 p0796 N84-15186
WILSON, R.
Catalogue of stellar ultraviolet fluxes. A compilation of absolute stellar fluxes measured by the Sky Survey Telescope (S2/68) aboard the ESRO satellite TD-1 15 p2423 N84-25558
UV observations on the variable quasar PG 1351+64 24 p3972 N84-35153
The ultraviolet astronomy mission: Columbus 24 p3982 N84-35228
WILSON, R. B.
Three-dimensional stress analysis using the boundary element method 21 p3421 N84-31700
WILSON, R. E.
The high temperature viscoplastic fatigue behavior of IN-100 using the Bodner-Partom flow law
[AD-A135867] 09 p1282 N84-18375
Analysis of wind turbines in yaw
[DE84-013620] 21 p3435 N84-31794
WILSON, R. G.
HgCdTe surface and defect study program
[AD-A142342] 20 p3308 N84-31010
WILSON, R. K.
Double porosity model for acoustic wave propagation in fractured-porous rock
[DE83-017823] 03 p0431 N84-12823
Propagation of acoustic waves in partially saturated porous media
[DE84-010536] 20 p3291 N84-30896
WILSON, R. M.
Evidence linking coronal mass ejections with interplanetary magnetic clouds
[NASA-TM-82564] 08 p1245 N84-18141
A comparative look at sunspot cycles
[NASA-TP-2325] 14 p2251 N84-24520
On long-term periodicities in the sunspot record
[NASA-TM-86458] 23 p3844 N84-34388
WILSON, R. P., JR.
Catalog of selected heavy duty transport energy management models
[NASA-CR-168299] 05 p0761 N84-14991
WILSON, S. B., III
Tandem fan applications in advanced STOVL fighter configurations
[NASA-TM-83689] 15 p2261 N84-24579
WILSON, S. G.
Carrier recovery methods for a dual-mode modem: A design approach
[NASA-CR-173355] 10 p1432 N84-19360
Design considerations for a monolithic, GaAs, dual-mode, QPSK/QASK, high-throughput rate transceiver
[NASA-CR-173560] 15 p2327 N84-24974
WILSON, T. G.
Derivation of linearized transfer functions for switching-mode regulations. Phase A: Current step-up and voltage step-up converters
[NASA-CR-175219] 10 p1485 N84-19707
WILSON, W.
Sun/Moon capture evaluation
[AD-P003160] 17 p2588 N84-26591
WILSON, W. E.
Algorithm for secondary electron emission from water vapor by high velocity ions
[DE84-011871] 21 p3494 N84-32142
WILSON, W. S.
The effects of impurities and additives on the growth of polycrystalline TNT
[MRL-R-916] 24 p3890 N84-34629
WILT, B. H.
Long term evaluation of the effects of shale oil produced JP-4 on aircraft construction materials
[AD-A131665] 03 p0331 N84-12161
WILTANEN, D. O.
Performance and test criteria for dc fuses, phase 1
[PB84-202662] 21 p3395 N84-31548
WILTSE, P. D.
Launch vehicle aerodynamic flight test results 01 p0019 N84-10119
WIMBERLY, F. C.
Implementation of automatic focusing algorithms for a computer vision system with camera control
[AD-A133492] 06 p0894 N84-15807
WIMMEL, H. K.
Energy conserving nonrelativistic guiding center mechanics and the Galilean principle of relativity
[IPP-6/219] 02 p0286 N84-11878

WIMMER, W.
Spacecraft interface design and its impact on operational support
[ESA-STR-211] 03 p0342 N84-12220
WINACOTT, E. L.
The Canadian programme of experimental measurement of sea-state characteristics by sky-wave radar
06 p0869 N84-15657
WINCKLER, J. R.
The electron Echo 6 mechanical deployment systems
15 p2348 N84-25094
Floating potentials and the hot plasma generated by an electron-beam-emitting rocket in the ionosphere
[AD-P002107] 16 p2522 N84-26193
WINDHEIM, R.
GROWIAN: Electric current from wind energy
23 p3786 N84-34009
WINDINGLAND, L. M.
Wind power generation design considerations
[AD-A138841] 13 p2009 N84-23029
WINE, P. H.
Kinetic studies of the reactions of CH3O2 with NO2 and OH with HNO3
[AD-A130922] 01 p0105 N84-10685
WINEFORDNER, J. D.
Atomic and molecular gas phase spectrometry
[AD-A135971] 09 p1392 N84-19088
WINELAND, D. J.
Summary of work on cooled ion frequency standard, fiscal year 1984
[AD-A142189] 19 p3007 N84-29061
WINEMAN, A. S.
Combined tension-torsion of a cylindrical mixture of an elastic solid and fluid
[AD-A136351] 09 p1331 N84-18689
New exact solutions in non-linear elasticity
[AD-A137928] 11 p1715 N84-21181
Pressure induced radial diffusion of a fluid through a thick walled highly elastic cylinder
15 p2313 N84-24881
WINER, K.
Structure and vibrational spectra of a model of a-Si:H with periodic boundary conditions
[DE83-015245] 03 p0367 N84-12390
WINER, W. O.
Friction in elastohydrodynamic contacts
15 p2316 N84-24897
Temperature effects in elastohydrodynamically lubricated contacts 15 p2340 N84-25049
WINFREE, P. K.
Nonlinear attitude stability of a dual-spin spacecraft containing spherical dampers
[AD-A141307] 18 p2807 N84-27821
WINFUL, H. G.
Distributed feedback bistability in channel waveguides
14 p2236 N84-24417
Switching behavior of bistable resonators filled with two-level atoms 14 p2236 N84-24419
Polarization bistability in cholesteric liquid crystals
14 p2236 N84-24420
Low power optical bistability near bound excitons in cadmium sulfide 14 p2241 N84-24451
WING, J. M.
A 2-tiered approach to specifying programs
[AD-A133949] 05 p0727 N84-14775
WING, R. F.
Measurements of chromospheric densities and geometrical extensions of late-type giant and super-giant stars
[NASA-CR-175236] 07 p1089 N84-17079
WINGERSKY, M. S.
An investigation of methods for reducing sampling error in certain IRT (Item Response Theory) procedures
[AD-A133848] 05 p0739 N84-14853
Comparison of IRT observed-score and true-score equatings
[AD-A133871] 06 p0891 N84-15791
WINGERT, T. L.
Qualification testing and electrical measurement experience: A manufacturer's view
22 p3585 N84-32705
WINGET, J. M.
Element-by-element solution procedures for nonlinear transient heat conduction analysis
16 p2494 N84-26000
Element-by-element solution procedures for nonlinear structural analysis 21 p3420 N84-31694
WININGHAM, J. D.
Low frequency electric and magnetic noise along the auroral field lines
[NASA-CR-173641] 17 p2727 N84-27358
WINKELMAN, J. R.
High frequency radar software reference manual for product one
[PB84-194885] 22 p3578 N84-32665
WINKENBACH, H.
Modular Optoelectronic Multispectral Scanner (MOMS)-01 on STS-7 and STS-11: Missions and results
23 p3765 N84-33862
WINKENS, H. P.
Thermostatic fine control valves mounted on the radiators in district heating systems
[BMFT-FB-T-83-169] 07 p1012 N84-16568
WINKLER, J. D.
Successful use of microcomputers in classroom instruction
[RAND/P-6853] 12 p1876 N84-22229
WINKLER, J. L.
Initial experimental results from a laboratory size beam plasma discharge device 05 p0638 N84-14198
WINKLER, R. V.
Development of robotics facility docking test hardware
[NASA-CR-171153] 23 p3698 N84-33433
WINKLER, S.
Fracture behavior under impact
[AD-A136056] 09 p1333 N84-18702
Fracture behavior under impact
[AD-A136057] 09 p1333 N84-18703
WINKLER, W.
New digital Integrated Circuit (IC) concept for color TV receivers
[BMFT-FB-T-83-261] 10 p1488 N84-19729
WINN, B.
Parameter estimation and infiltration tests at the repeat facility 16 p2514 N84-26136
WINN, C.
NASA scatterometer on NROSS: A system for global observations of oceanic winds 23 p3782 N84-33980
WINNE, P. S.
A questionnaire assessment of estimated radiation effects upon military task performance
[AD-P003254] 18 p2905 N84-28421
WINNER, W. E.
Rainfall chemistry and potential beneficial-detrimental impact to indigenous vegetation
[AD-A138471] 12 p1845 N84-22027
WINOGRADOV, S. S.
Scattering properties of partly screened dielectric sphere
[REPT-218] 17 p2662 N84-26983
WINSCHE, W. E.
Liquid suspensions of reversible metal hybrides
[DE84-014358] 24 p3881 N84-34586
WINSEL, A.
Lead-acid battery with improved cycle life and increased efficiency for lead leveling application and electric road vehicles
[BMFT-FB-T-83-225] 10 p1489 N84-19734
WINSHIP, C.
Investigation of a cylindrical inflated beam-column structure
[BU-301] 15 p2350 N84-25105
WINSKE, D.
Microtheory of collisionless shock current layers
[DE84-007500] 14 p2229 N84-24366
Investigation of laminar shocks
[DE84-010074] 20 p3242 N84-30582
WINSOR, N. K.
Investigation of a pulsed electrothermal thruster
[NASA-CR-168266] 03 p0343 N84-12227
Research and development of a plasma jet mass accelerator as a driver for impact fusion
[DE84-012940] 22 p3659 N84-33198
WINSTON, J. G.
High-efficiency free-electron-laser experiments
[DE83-015218] 02 p0227 N84-11487
The Los Alamos free-electron-laser oscillator experiment: Plans and present status
[DE83-017290] 03 p0382 N84-12485
First operation of the Los Angeles free-electron laser oscillator
[DE84-006024] 11 p1664 N84-20856
WINSTON, R.
Fundamentals and techniques of nonimaging optics, volume 2
[DE83-015447] 03 p0442 N84-12902
Design optimization studies for nonimaging concentrating solar collector tubes
[DE84-001368] 12 p1843 N84-22017
WINTER, C.
Regeneration efficiency, shuttle heat loss and thermal conductivity in epoxy-composite annualr gap regenerators from 4K to 80K 06 p0818 N84-15335
WINTER, C. F.
Antenna pattern characteristics of fine-steered pencil beams
[AD-P003516] 21 p3385 N84-31484
WINTER, D. R.
Water resources data for South Dakota, water year 1982
[PB84-117175] 09 p1339 N84-18748
WINTER, D. T.
Guidelines for the design of large modular scientific libraries in Ada
[NPL-DITC-26/83] 03 p0420 N84-12740
Guidelines for the design of large modular scientific libraries in Ada
[MW-NN-31/83] 07 p1056 N84-16840
The first 200,000,001 zeros of Riemann's zeta function 08 p1225 N84-18006
Guidelines for the design of large modular scientific libraries in Ada
[CWI-NM-N8401] 20 p3275 N84-30792
WINTER, F.
Simulating certain aspects of hypogravity: Effects on the mandibular incisors of suspended rats (PULEH model) 09 p1353 N84-18844
WINTER, H.
Development, set up and testing of a measuring system for components of the Derived Azimuth System (DAS)
[BMFT-FB-W-84-005] 19 p2962 N84-28773
WINTER, J. R.
Structural analysis of the support system for a large compressor driven by a synchronous electric motor
22 p3610 N84-32873
WINTER, N.
Calculation of molecular final states and their effect on a precision neutrino mass experiment
[DE84-011071] 20 p3295 N84-30921
WINTER, R.
Typical remote sensing data products
08 p1175 N84-17656
WINTER, S.
Risk models for risk distance prediction during release of toxic industrial chemicals caused by acts of war
[FOA-C-40185-C2(H2)] 08 p1183 N84-17707
DARK: A computer based system for simulating the potential hazards from releases of pressurized gases
[FOA-C-40183-C2] 10 p1565 N84-20255
WINTER, T. P.
Variability of practice and the transfer of training of motor skills
[AD-A142896] 21 p3459 N84-31942
WINTER, W. G.
Studies of electrically stimulated rat limb and peripheral nerve regeneration
[AD-A134358] 08 p1197 N84-17806
WINTERHAGER, H.
Diffusion films produced by heat treatment of electroplated coatings
[BLL-OA-TRANS-3082-(6196.3)]
06 p0804 N84-15237
WINTERLING, G.
Thin-layer solar cells made of amorphous silicon
[MBB-UA-664-82-OE] 05 p0698 N84-14584
WINTERS, M.
Geology hydrology and mineral resources of crystaline rock areas of Northeastern US
[DE84-013671] 21 p3432 N84-31774
Geology, hydrology, and mineral resources of crystalline rock areas of the northeastern United States
[DE84-013672] 22 p3614 N84-32901
WINTERS, W. S.
TOPAZ: A computer code for modeling heat transfer and fluid flow in arbitrary networks of pipes, flow branches, and vessels
[DE84-006275] 11 p1709 N84-21142
WINTERSGILL, M. C.
Dielectric relaxation in poly(ethylene oxide) complexed with alkali metal perchlorates
[AD-A134464] 07 p0970 N84-16284
Effect of pressure on conductivity in Poly(Ethylene oxide) complexed with alkali metal salts
[AD-A134562] 07 p0970 N84-16285
Ion implantation in polymers
[AD-A134482] 07 p0979 N84-16342
Ion conduction poly(vinyl acetate)
[AD-A142249] 19 p3096 N84-29660
Electrical and differential scanning calorimetry studies of poly(ethylene oxide) complexed with alkaline earth thiocyanates
[AD-A143198] 22 p3546 N84-32449
Association and bound motion in alkali metal doped cadmium fluoride
[AD-A143200] 22 p3546 N84-32450
NMP, electrical relaxation, and high pressure electrical conductivity in ion conducting polymers
[AD-A143202] 22 p3546 N84-32451
Electrically conducting poly(vinyl acetate)
[AD-A143199] 22 p3559 N84-32538
Anomalous pressure dependence of dipolar relaxation times in rare earth doped lead fluoride
[AD-A143201] 22 p3662 N84-33215

WINTERSTEINER, P. P.
A computer code to calculate emission and transmission of infrared radiation through non-equilibrium atmospheres
[AD-A137162] 11 p1683 N84-20980
Mathematical modelling of waveguiding techniques and electron transport, volume 2
[AD-A139604] 15 p2391 N84-25350
Mathematical modelling of waveguiding techniques and electron transport, volume 1
[AD-A139603] 15 p2397 N84-25382
WINTNER, E.
Optics and quantum electronics 22 p3682 N84-33343
WINTRISS, G. V.
Investigation of intrinsically error-free programs
[AD-A132934] 05 p0730 N84-14791
WINTUCKY, E. G.
Ion sputter textured graphite electrode plates
[NASA-CASE-LEW-12919-2] 18 p2928 N84-26565
WINTUCKY, W. T.
An overview of NASA intermittent combustion engine research
[NASA-TM-83668] 15 p2261 N84-24583
WINZER, G.
Optical multiplexers and demultiplexers for optical wavelength-division multiplex transmission systems
[BMFT-FB-T-83-167] 05 p0748 N84-14912
WIPF, S. L.
Dipole aperture and superconductor requirements
[DE84-006011] 12 p1916 N84-22483
WIPPICH, H. G.
A 60 GHz pulse radar for detection of high voltage power lines
[BMFT-FB-W-84-013] 19 p3009 N84-29077
WIRE, G. L.
In-reactor creep behavior of selected ferritic alloys
[DE83-017005] 07 p0976 N84-16322
WIRINGA, R. B.
Relativistic effects in the binding energies of few-body nuclei
[DE83-014711] 02 p0291 N84-11907
The 3-body forces, relativistic effects, isobars, and pions in nuclear systems
[DE84-000163] 04 p0597 N84-13938
WIRSCHING, P. H.
Creep-rupture reliability analysis
[NASA-CR-3790] 10 p1516 N84-19925
WIRSEN, A.
Resin development in advanced composites
[FOA-C-20509-F9] 06 p0799 N84-15208
Plastic rotating bands, obturators and sabots
[FOA-C-20534-D2] 19 p2996 N84-28985
WIRTENSON, G. R.
Chemical treatment of silicate glasses for producing anti-reflection surfaces
[DE84-005665] 11 p1732 N84-21299
WIRTH, D. E.
Development of a corrosion control, nonemissive paint for the protection of bilge spaces
[AD-A136270] 09 p1287 N84-18402
WIRTHS, G.
German-Argentinian R and D project for the utilization of wind energy
[BMFT-FB-T-84-080] 20 p3237 N84-30549
WIRTZ, G. P.
Defect electrochemistry of oxide electrodes 11 p1742 N84-21364
WISANDER, D. W.
Method of fabricating an abradable gas path seal
[NASA-CASE-LEW-13269-2] 13 p1997 N84-22957
WISBEY, S. J.
Surface contamination from actinide solutions
[AERE-R-11046] 18 p2816 N84-27879
WISE, D. U.
Interpretation of planetary stress systems: Determination of tectonic over-printing in Northwest Wyoming 13 p2090 N84-23540
WISE, G. L.
Quantization and detection in signal processing
[AD-A136560] 09 p1299 N84-18494
WISE, H.
Elementary processes in the catalytic combustion of methane (mechanism, intermediates and controlling reactions)
[PB84-181965] 17 p2620 N84-26770
WISE, J. L.
Refractive index and equation of state of a shock-compressed aqueous solution of zinc chloride
[DE83-016302] 02 p0220 N84-11443
WISE, S. P.
Neurophysiological approaches to higher brain functions
[PB84-175769] 17 p2746 N84-27434
WISEHART, W. R.
COBOL automated verification system, implementation phase
[AD-A141063] 19 p3074 N84-29504
WISHNER, R. P.
Distributed hypothesis formation in distributed sensor networks
[AD-A133849] 05 p0731 N84-14802
Dynamic sequence assignment
[AD-A136548] 09 p1384 N84-19037
WISIAN-NEILSON, P.
Synthesis of phosphorus-nitrogen polymers using Si-N-P reagents
[AD-A135224] 08 p1137 N84-17392
Synthesis and structure of sulfur derivatives of a (methylene)phosphine
[AD-A141513] 19 p2964 N84-28909
WISKERCHEN, M.
Action Information Management System (AIMS): A user's view 11 p1748 N84-21405
WISLICKI, B.
Standardization and selection of a method for evaluating shear resistance of lubricating oils with polymer additives
[NASA-TM-77383] 10 p1465 N84-19569
WISNIEWSKI, H. L.
The influence of cutouts on transient response of hemispherical shells
[AD-P002943] 14 p2197 N84-24183
Response of structural panels to air blast 15 p2316 N84-24902
Revisions to the PETROS 4 shell response code
[AD-A140268] 16 p2502 N84-26059
WISNIEWSKI, J. A.
Global wiring strategy for IC and PC routing
[DE83-009934] 02 p0215 N84-11412
Some difficulties developing a large-scale research grade CAD program for a production environment
[DE84-005549] 14 p2142 N84-23845
WISNIEWSKI, W.
Very recent IUE observations of 2 BL Lacertae orbits 15 p2424 N84-25561
WISSLER, E. H.
Mathematical simulation of diver performance
[AD-A133844] 05 p0713 N84-14671
WISWELL, R. L.
AFRPL (Air Force Rocket Propulsion Laboratory) technical objective document FY 1985
[AD-A137856] 11 p1626 N84-20641
WITA, C.
Testing of coatings in space, Long Duration Exposure Facility (LDEF)
[BMFT-FB-W-84-017] 21 p3353 N84-31269
WITALIS, E. A.
Current tube description of the focus plasma 10 p1584 N84-20379
Filamentation in the plasma focus as a plasma Meissner effect 10 p1584 N84-20380
WITBECK, N. E.
Valles Marineris layered deposits: Implications of origin 13 p2090 N84-23537
The geology of Mare Acidalium quadrangle Mars 15 p2428 N84-25582
WITCZAK, M. W.
Development of probabilistic rigid pavement design methodologies for military airfields
[AD-A138212] 12 p1804 N84-21760
WITHBROE, G. L.
Solar EUV, XUV and soft X-ray telescope facilities
[NASA-CR-170602] 02 p0305 N84-11999
Spectroscopic measurements of solar wind generation 03 p0466 N84-13071
Rapid magnetic energy release, its possible role in coronal heating and solar wind acceleration
[AD-A133170] 07 p1093 N84-17106
WITHEROW, W. K.
Method of and apparatus for double-exposure holographic interferometry
[NASA-CASE-MFS-25405-1] 13 p1992 N84-22929
Separation processes during binary monotectic alloy production
[NASA-TM-82579] 15 p2295 N84-24773
WITHERSPOON, F. D.
Experimental observation of the shear Alfven resonance in a Tokamak
[DE84-012993] 20 p3306 N84-30998
WITHINGTON, J. R.
RF performance of a proposed L-band antenna system 04 p0519 N84-13410
WITKOWSKI, J.
Preliminary investigations of 360 kJ plasma focus device, part 2 10 p1581 N84-20359
WITMER, B. G.
Training feedback handbook
[AD-A132565] 05 p0715 N84-14683
WITMER, E. A.
Review of aircraft crash structural response research
[AD-A131696] 03 p0331 N84-12160
WITSCH, K.
Software development based on multigrid techniques
[GMD-84] 17 p2751 N84-27459
WITT, A. F.
Growth of cadmium telluride by pulling under liquid encapsulation
[AD-A136842] 10 p1589 N84-20412
WITT, R. G.
Final comparison of TM and MSS data for surface mine assessment in Logan County, West Virginia 20 p3216 N84-30430
Relative accuracy assessment of LANDSAT-4 MSS and TM data for level 1 land cover inventory 20 p3217 N84-30432
WITTE, A. B.
Three-color pyrometer for burning particle temperature measurement 13 p1943 N84-22635
WITTE, B.
Investigation of the distancemeter Geodimeter 122 and the Autoranger-A 02 p0234 N84-11537
WITTE, F.
Oil spill detection with DFVLR X-band SLAR 23 p3781 N84-33973
WITTE, M.
The ISPM interstellar neutral-gas experiments 09 p1261 N84-18234
WITTEBORN, F. C.
Thermal contacts between metal and glass for use at cryogenic temperatures
[NASA-TM-85856] 12 p1907 N84-22423
A cryogenically cooled, multidetector spectrometer for infrared astronomy
[NASA-TM-86004] 23 p3840 N84-34359
WITTERS, D. M., JR.
Performance of a new 916 MHz direct contact applicator with reduced leakage, a detailed analysis
[PB83-226621] 01 p0114 N84-10742
WITTEVEEN, J.
Heron, volume 28, no. 1, 1983. Dynamic elasto-plastic model for reinforced concrete members
[PB84-109057] 08 p1172 N84-17635
WITTIG, C.
Detailed kinetic studies of excited and/or transient species
[AD-A137278] 10 p1500 N84-19804
WITTIG, G.
Non-destructive testing of non-metallic materials using microwaves
[DRIC-T-6974] 03 p0385 N84-12508
WITTIG, M.
The concept of the Low Intermediate Frequency Translation Loop (LIFTL) and its application on a CO2 laser intersatellite data link system 24 p3905 N84-34733
Design criteria for space based laser ranging systems 24 p3908 N84-34751
WITTIG, S.
Optical measurements of droplet size distributions: Special considerations in the parameter definition for fuel atomizers 15 p2290 N84-24745
Development of temperature-, velocity- and concentration-profiles in a curved combustor 15 p2292 N84-24757
WITTING, H. L.
Development of a cesium-vapor-lamp system for triggering photothyristors
[DE83-902691] 02 p0215 N84-11407
WITTING, J. M.
Solitary waves in water colliding head-on
[AD-A135537] 08 p1220 N84-17964
WITTMAN, P. A.
Hydrographic data from the OPTOMA (Ocean Prediction Through Observations, Modeling and Analysis) program OPTOMA2, legs I and II, 31 July - 14 August, 1982
[AD-A141547] 19 p3061 N84-29424
Hydrographic data from the OPTOMA (Ocean Prediction Through Observations, Modeling and Analysis) program: OPTOMA1, 8 to 13 March 1982
[AD-A141666] 19 p3061 N84-29425
WITWICKI, A.
Developed electrotechnology during a cosmic frost
[AD-A135575] 09 p1308 N84-18552
WLEZIEN, R. W.
Control of jet flowfield dynamics
[AD-A143631] 23 p3746 N84-33750
WLODYKA, L.
The gaseous and plasma environment around space shuttle
[AD-A133900] 05 p0643 N84-14231
WOBST, M.
Methanol viewed as alternative to gasoline 14 p2133 N84-23785

WOBUS, R. L.
Long-term dynamical stability and transition in a spectral model 12 p1856 N84-22094
A new parameterization of 15 micron radiative transfer for a GCM 12 p1858 N84-22105
WODKIEWICZ, K.
Absorptive optical bistability with laser amplitude fluctuations 14 p2238 N84-24430
WODTKE, A. M.
Dynamic resonances in the reaction of fluorine atoms with hydrogen molecules
[DE84-013240] 23 p3823 N84-34242
WOELK, R.
Simulation procedure for the calculation of aircraft noise 19 p3100 N84-29692
WOERNER, M.
Shock structure near a wall in pure inert gas and in binary inert gas mixtures 07 p1005 N84-16517
WOERNER, R.
Calculation of molecular final states and their effect on a precision neutrino mass experiment
[DE84-011071] 20 p3295 N84-30921
WOEST, W.
Crystalline photoconductive films for electrophotographic recording
[BMFT-FB-T-84-099] 21 p3408 N84-31614
WOFSY, S. C.
Sources and sinks for nitrous oxide and experimental studies of the source of atmospheric COS, CS-2 and CH-3-Cl
[NASA-CR-175404] 10 p1531 N84-20030
WOGMAN, N. A.
Double beta decay: Recent developments and projections
[DE84-000476] 04 p0598 N84-13944
WOHL, J. G.
Individual differences in military decisionmaking: The classification performance of active sonar operators
[AD-P002885] 13 p1979 N84-22846
WOHLETZ, K. H.
Experiments on water/melt explosions, nature of products, and models of dispersal 13 p2081 N84-23483
WOHLGEMUTH, J. H.
Process Research On Polycrystalline Silicon Material (PROPSM)
[NASA-CR-173753] 18 p2869 N84-28214
WOHLRAB, R.
Experimental determination of gap flow-conditioned forces at turbine stages and their effect on the running stability of simple rotors
[NASA-TM-77293] 06 p0852 N84-15553
WOHLTJEN, H.
Phthalocyanine derivatives specifically designed for fabrication of organic semiconductor gas sensors
[AD-A130611] 01 p0083 N84-10540
Optical waveguide gas sensors
[AD-A130629] 01 p0148 N84-10969
Poly(ethylene maleate) - cyclopentadiene: A model reactive polymer-vapor system for evaluation of a SAW (Surface Acoustic Wave) microsensor
[AD-A141531] 19 p2999 N84-29001
Organic semiconductor vapor sensing method
[AD-D011070] 19 p3017 N84-29127
Mechanism of operation and design considerations for surface acoustic wave device vapor sensors
[AD-A141537] 19 p3027 N84-29195
Organophosphorus selective ion mobility spectrometer
[AD-D011010] 19 p3027 N84-29196
Method and apparatus for determination of lubricant stability
[AD-D011193] 24 p3887 N84-34615
WOHN, J.
Upgrading and performance of the SAO laser ranging system in Matera
[NASA-CR-173176] 07 p1009 N84-16543
WOICESHYN, P. M.
A new parameterization of an empirical model for wind/ocean scatterometry 17 p2712 N84-27269
The impact of scatterometer wind data on global weather forecasting 17 p2720 N84-27314
First global analysis of SEASAT scatterometer winds and potential for meteorological research 17 p2720 N84-27315
WOJCIECHOWSKI, C. J.
Diffuser/ejector system for a very high vacuum environment
[NASA-CASE-MRS-25791-1] 18 p2797 N84-27749
Preliminary engineering report for design of a subscale ejector/diffuser system for high expansion ratio space engine testing
[NASA-CR-171137] 21 p3354 N84-31273
WOJCIK, A. S.
A study of reduced dependence in multi-valued sequential machines
[AD-P002326] 14 p2189 N84-24117
Synthesis of multiple-valued logic functions based on a modular design approach
[AD-P002378] 14 p2195 N84-24169
WOJCIK, G. L.
Large-scale numerical analysis of three-dimensional seismic waves
[AD-A144610] 24 p3920 N84-34814
WOJNAROVITSNE, I. H.
Particle size distribution of typical ceramic raw materials by laser granulometry
[NASA-TM-77385] 11 p1636 N84-20696
WOJTOWICZ, J.
Conformal array analysis
[AD-P003504] 21 p3384 N84-31472
WOLBERS, H. L., JR.
Space station needs, attributes, and architectural options: Commercial opportunities in space
[NASA-CR-173698] 18 p2803 N84-27788
WOLCOTT, E.
Development and fabrication of a graphite/epoxy motor case for air launch missile applications 20 p3142 N84-29948
WOLD, A.
Homogeneity and magnetic susceptibility in some substituted cadmium spinels
[AD-A135297] 08 p1131 N84-17357
WOLDAI, I.
Major water conservation and reclamation projects in the Jianghan Plain and surroundings, Hubei Province, China 03 p0397 N84-12593
WOLDSTAD, J. C.
Massed practice: Does it change the statistical properties of performance tests?
[AD-A139338] 15 p2383 N84-25294
WOLEGEMUTH, D. J.
Effects of simulated weightlessness on mammalian development. Part 1: Development of clinostat for mammalian tissue culture and use in studies on meiotic maturation of mouse oocytes 09 p1357 N84-18868
WOLF, A.
Noise reduction of automobile tires
[MBB-BB-539-83-OE] 05 p0687 N84-14517
WOLF, C. J.
Aging of polymeric materials
[AD-A132250] 04 p0506 N84-13318
WOLF, D.
Comparison of the calculated properties of high-angle (001) twist boundaries in MnO, FeO, CoO and NiO with MgO
[DE83-015677] 02 p0201 N84-11307
Segregation of Zn solutes to high-angles (001) twist grain boundaries in Al
[DE84-003455] 08 p1134 N84-17375
Role of Schottky disorder on the stability and structure of (100) twist grain boundaries in NiO
[DE84-006447] 14 p2243 N84-24469
WOLF, D. E.
Fully-coupled analysis of jet mixing problems. Part 1. Shock-capturing model, SCIPVIS
[NASA-CR-3761] 06 p0834 N84-15425
WOLF, H.
Shuttle flight pressure instrumentation: Experience and lessons for the future 01 p0026 N84-10167
Growth of electrically charged soot particles in flames 15 p2291 N84-24751
WOLF, J.
Investigation of intrinsically error-free programs
[AD-A132934] 05 p0730 N84-14791
WOLF, J. K.
A study of error detection and correction codes
[AD-A139398] 14 p2156 N84-23917
WOLF, J. R.
Measurement of two-phase flow velocity using a laser Doppler anemometer
[DE83-013522] 01 p0082 N84-10531
WOLF, M.
Report on measurements of terrestrial radiation in the Schwandorf area and the radiological load of the river Naab
[GSF-A-6/83] 16 p2520 N84-28180
WOLF, M. A.
New-generation low-power radiation survey instruments
[DE84-001716] 05 p0685 N84-14506
WOLF, R.
Laser light scattering at the POSEIDON plasma focus device 10 p1584 N84-20384
WOLF, R. A.
Study to synthesize and interpret data from several satellites and ground magnetometers
[AD-A132670] 05 p0703 N84-14616
Study plasma interactions in the auroral ionosphere
[NASA-CR-175352] 07 p1032 N84-16698
WOLF, S. A.
Structural studies at elevated pressure and reduced temperatures using synchrotron radiation: Application to Ce.8La.1Th.1
[DE84-001793] 06 p0924 N84-16007
Role of pressure in understanding the anomalous superconductivity in europium (molybdenum)6(sulfur)8 and (TMTSF)2FSO3
[DE83-017292] 06 p0925 N84-16012
WOLF, S. W. D.
The design and operational development of self-streamlining 2-dimensional flexible walled test sections
[NASA-CR-172328] 13 p1926 N84-22534
WOLF, W.
Applications of analog Change Coupled Devices (CCD's)
[BMFT-FB-T-83-141] 03 p0456 N84-13002
Development of low cost amorphous materials with high saturation flux density
[BMFT-FB-T-83-213] 10 p1483 N84-19558
WOLFE, A.
Dependence of hydromagnetic energy spectra on interplanetary parameters
[AD-A138745] 13 p2036 N84-23209
WOLFE, C. M.
Clustering and ordering in 3-5 alloys
[AD-A131785] 03 p0452 N84-12974
Impurity and defect interactions in GaAs
[AD-A139592] 14 p2243 N84-24465
WOLFE, J. A.
Laser retinal injury
[AD-A144187] 24 p3936 N84-34916
WOLFE, J. F.
Thermoset-thermoplastic aromatic polyamide containing N-propargyl groups
[NASA-CASE-LAR-12723-2] 13 p1962 N84-22746
WOLFE, J. H.
SETI science working group report
[NASA-TP-2244] 12 p1869 N84-22178
Microcomputer network for Computerized Adaptive Testing (CAT)
[AD-A140256] 16 p2546 N84-26341
Microcomputer network for Computerized Adaptive Testing (CAT): Program listing. Supplement
[AD-A141569] 19 p3077 N84-29521
WOLFE, R. F.
Evolution of the Uranus-Neptune planetesimal swarm: Consequences for the Earth 13 p2074 N84-23445
WOLFE, R. W.
Purdue plane structures analyzer 2: A computerized wood engineering system, 1983 version
[AD-A142042] 19 p3078 N84-29533
WOLFE, S.
Maximum-efficiency dc-motor project for electric vehicles
[DE84-000791] 07 p0999 N84-16479
WOLFE, S. M.
Passive and active circuits for vertical plasma stabilization
[DE84-006857] 18 p2933 N84-28599
WOLFE, W. P.
Numerical solution for a spinning, nutating, fluid-filled cylinder
[DE84-005878] 11 p1654 N84-20799
WOLFENDALE, A. W.
The case for antiparticles in the extragalactic cosmic radiation
[NASA-TM-86070] 11 p1760 N84-21487
WOLFENSTETTER, K. D.
Optimal design of an antenna array
[FTZ-454-TBR-38-E] 12 p1808 N84-21789
WOLFER, W. G.
Modeling crack-growth processes in fusion-reactor materials
[DE84-000477] 04 p0502 N84-13291
Factors which determine the swelling rate of austenitic stainless steels
[DE84-001474] 05 p0656 N84-14315
Correlation of fracture toughness with tensile properties for irradiated 20% cold-worked 316 stainless steel
[DE84-003954] 08 p1135 N84-17379
Effective thermophysical and elastic properties of materials with voids
[DE84-013942] 22 p3549 N84-32465
WOLFF, B.
Microfacies, depositional environments and diagenesis of the Amapa carbonates (Paleocene - Middle Miocene) Foz Do Amazonas Basin, offshore northeast Brazil 21 p3439 N84-31817
WOLFF, C.
Non-Newtonian intrinsic viscosity of rigid ellipsoid solutions
[BLL-WH-570-(9091.9F)] 01 p0138 N84-10903

WOLFF, F. H.
Nonlinear coupling responses to variable frequency excitations 10 p1515 N84-19920
Simple approximate models for a class of structures 10 p1515 N84-19921
WOLFF, J.
Computer simulation of protein systems 10 p1559 N84-20214
WOLFF, P. A.
Infrared nonlinear processes in semiconductors [AD-A141032] 18 p2940 N84-28649
Infrared nonlinear optics 22 p3682 N84-33346
WOLFF, T.
Bioassay of particulate organic matter from ambient air [PB83-239731] 02 p0267 N84-11754
WOLFF, T. H.
Thin sets in nonlinear potential theory 13 p2032 N84-23178
WOLFRAM, A. P.
Layout of a SAR sensor for Spacelab and satellite. Part 1: Design considerations for fundamental SAR parameters [ESA-TT-802] 03 p0343 N84-12224
WOLFSBERG, M.
International Conference on Radiationless Transitions [AD-A141407] 19 p3100 N84-29695
WOLFSBERGER, W.
System feasibility study on rendezvous and docking in transfer orbit, volume 1 [PV6-13/82-VOL-1] 12 p1776 N84-21588
System feasibility study on rendezvous and docking in transfer orbit, volume 2 [PRV6-13/82] 12 p1776 N84-21589
WOLFSON, M. G.
The MRL small scale gap test for the assessment of shock sensitivity of high explosives [MRL-R-896] 08 p1139 N84-17408
WOLFSON, N.
The impact of satellite temperature soundings on the forecasts of a small national meteorological service 17 p2717 N84-27295
WOLFSON, O.
Concurrency control using locks in distributed databases 22 p3670 N84-33262
WOLFSON, P. G.
The lapse rate, surface albedo and global climatic stability: Experiments with an annual zonal energy balance model 02 p0246 N84-11610
WOLFSON, R. G.
Development of GaAs/Si and GaAs/Si monolithic structures for future space solar cells 19 p3046 N84-29327
WOLIN, M. J.
Methane producing bacteria: Immunological characterization 19 p3064 N84-29438
WOLNA, M.
Review of the strength of brittle rock materials 23 p3722 N84-33586
Some aspects of the deformation and brittle destruction of elastooptic materials 23 p3722 N84-33587
WOLOCH, F.
Physical models and numerical methods of the reactor dynamic computer program RETRAN [OEFZS-4272] 18 p2931 N84-28587
WOLOCK, I.
The effects of moisture on fracture toughness and thermal relaxation of stretched acrylic plastics [AD-P003197] 17 p2591 N84-26610
WOLPERT, R.
Infinite dimensional stochastic differential equation models for spatially distributed neurons [AD-A136507] 09 p1376 N84-18986
WOLSKI, R. J.
Users' guide for the NCAR (National Center for Atmospheric Research) CCM (Community Climate Model) modular processor [PB83-264002] 05 p0710 N84-14652
WOLSKY, A. M.
Economics of hydrogen production: The next 25 years [DE84-007279] 21 p3374 N84-31414
WOLSTENCROFT, R. D.
Proceedings of the Workshop on Laboratory and Observational Infrared Spectra of Interstellar Dust [ISBN-0-902553-29-1] 16 p2569 N84-26485
The behaviour of the 3.28 micron dust feature in NGC 2024 16 p2571 N84-26498
Structure in the interstellar polarization curve and the nature of the polarizing grains 16 p2572 N84-26507
Laboratory and observational infrared spectra of interstellar dust [ROE-OR-12] 18 p2947 N84-28683
The behaviour of the 3.28 micron dust feature in NGC 2024 18 p2949 N84-28696
Structure in the interstellar polarization curve and the nature of the polarizing grains 18 p2950 N84-28706
WOLTERING, A. B.
Inventory RF radiation levels in the Netherlands, part 1 [LEOK-TR-1984-02-PT-1] 20 p3175 N84-30167
Description of a microwave system for the measurement of close to carrier AM and FM noise spectra [LEOK-TR-1984-04] 20 p3176 N84-30168
WOLTERS, P. H.
The iNet Gateway trial 11 p1750 N84-21427
WOLVERTON, B. C.
Method for treating wastewater using microorganisms and vascular aquatic plants [NASA-CASE-NSTL-10] 03 p0406 N84-12654
WOMER, N. K.
An automated airframe production cost model [AD-P002787] 13 p2056 N84-23334
WON, I. J.
Development of a sweep-frequency electromagnetic exploration method for three-dimensional terrain analysis [AD-A129607] 01 p0064 N84-10422
WONG, C. H.
An experimental and numerical study of weak spherical N-waves produced by exploding wires [UTIAS-TECH-NOTE-248] 11 p1651 N84-20779
WONG, C. P. C.
Low-activation fusion-reactor design studies [DE83-017688] 04 p0608 N84-14014
WONG, C. Y.
Baryon distribution in relativistic heavy-ion collisions [DE84-008509] 18 p2930 N84-28581
WONG, D. Y.
Processing techniques for intelligibility improvement to speech with co-channel interference [AD-A135702] 09 p1302 N84-18508
WONG, E.
Resource contention, synchronization, and information structure in distributed systems [AD-A143037] 21 p3518 N84-32287
WONG, H.
Nutritional and environmental factors in ethanol fermentation by Saccharomyces cerevisiae [DE84-009693] 20 p3167 N84-30110
WONG, H. K.
Studies of some plasma instabilities in space physics 17 p2766 N84-27562
Large amplitude MHD waves upstream of the Jovian bow shock: Reinterpretation [NASA-TM-86131] 21 p3525 N84-32333
WONG, H. V.
Theoretical studies on free electron lasers [AD-A136333] 09 p1321 N84-18627
WONG, I. G.
Seismicity of the Paradox Basin and the Colorado Plateau interior [DE84-011620] 20 p3228 N84-30516
WONG, J.
Cold weather goggles. 6: Effectiveness of yellow filters [AD-A136241] 09 p1363 N84-18904
High frequency acoustic instabilities in heated fluids [DE84-005114] 10 p1575 N84-20324
WONG, J. L.
A wideband low-sidelobe disc-o-cone antenna [AD-A131440] 02 p0210 N84-11370
A wideband corner-reflector antenna for 240 to 400 MHz [AD-A134281] 07 p0992 N84-16433
WONG, K. J.
Stores weight and inertia system update: Cable attachment redesign, flexible length parameter calibration, data sheet revision [AD-A141087] 19 p2963 N84-28781
WONG, M. Y.
A method to combine remotely sensed and in situ measurements: Program documentation [E84-10172] 21 p3426 N84-31735
WONG, N. C.
Coherent effects in laser spectroscopy 06 p0849 N84-15533
WONG, R. C.
Derivation of linearized transfer functions for switching-mode regulations. Phase A: Current step-up and voltage step-up converters [NASA-CR-175219] 10 p1485 N84-19707
WONG, S.
Infrared nonlinear optics 22 p3682 N84-33346
WONG, S. F.
Electron impact cross sections for molecular lasers [AD-A141754] 19 p3029 N84-29211
WONG, S. K.
Density variation due to wave heating in Tokamak plasmas [DE84-009402] 20 p3305 N84-30993
WONG, S. M.
Effects of cyclohexyl groups and ortho-substituents on the viscosity of ester liquid crystal components [AD-A143028] 21 p3504 N84-32205
WONG, T. C.
Implementation of uniform perturbation method for potential flow past axisymmetric and two-dimensional bodies [NASA-CR-173829] 20 p3125 N84-29851
WONG, T. H.
Time optimal digital control of multi-unit paper web dynamics 13 p2002 N84-22991
WONG, V.
Development of mass-producible line-focus tracking concentrating solar collectors. Category 1: Collectors [DE83-015629] 03 p0403 N84-12639
Interface standardization 22 p3584 N84-32700
WONG, W. K.
Design study of ion anti-contamination system [AD-A144197] 24 p3963 N84-35097
WONG, Y. S.
Numerical methods for singular perturbation problems [AD-A134696] 08 p1220 N84-17966
Newton like: Minimal residual methods applied to transonic flow calculations [NASA-CR-172305] 10 p1568 N84-20275
WOO, D. S.
Characterization of silicon-gate CMOS/SOS integrated circuits processed with ion implantation [NASA-CR-161988] 19 p3011 N84-29087
WOOD, A. P.
Multistate reliability [AD-A134589] 07 p1013 N84-16572
WOOD, B. B.
Bayesian reliability test plans for one-shot devices [AD-A138234] 12 p1896 N84-22350
WOOD, C.
Refractory materials for high-temperature thermoelectric energy conversion [NASA-CR-173159] 08 p1136 N84-17388
Thermal conductivity behavior of boron carbides [NASA-CR-173165] 09 p1316 N84-18600
WOOD, C. A.
Caleras in the solar system 13 p2081 N84-23485
WOOD, C. M.
Testing and evaluation of Vespel up to 450 deg F when used in nuts and bolts as a self-locking element [NASA-TM-86456] 21 p3412 N84-31639
WOOD, C. P.
Optical measurements of soot size and number density in a complex flow, swirl-stabilized combustor 15 p2292 N84-24753
WOOD, D.
Continuing research at Solar Steam, Incorporated 18 p2873 N84-28238
WOOD, D. B.
Water resources data for Nevada, water year 1982 [PB84-120385] 09 p1340 N84-18755
WOOD, D. H.
Delayed effects of proton irradiation in Macaca mulatta. 3: Glucose intolerance [AD-A142289] 20 p3256 N84-30669
WOOD, E. C.
Two decades of air carrier jet operation 06 p0775 N84-15080
WOOD, E. F.
Estimation of the generalized extreme-value distribution by the method of probability weighted moments [AD-A141696] 19 p3093 N84-29642
WOOD, E. L., JR.
Comparison of compression properties and swelling of beryllium irradiated at various temperatures [DE84-000597] 04 p0500 N84-13277
WOOD, G. H.
Scientific numeric databases 11 p1751 N84-21430
WOOD, G. M.
Low energy electron magnetometer using a monoenergetic electron beam [NASA-CASE-LAR-12706-1] 03 p0375 N84-12444
WOOD, H. L.
Measurement of solid propellant burning rates employing microwave techniques 13 p1944 N84-22640
WOOD, H. M.
The NBS data management technology program 22 p3672 N84-33277
WOOD, J. A.
Formation of chondrules by drag heating in dust-enriched environments 11 p1756 N84-21463
Mineralogic and petrologic studies of meteorites and lunar samples [NASA-CR-175390] 11 p1758 N84-21478
WOOD, J. B.
A method for comparing the structure of a discipline to the structure of a bibliographic file for that discipline 10 p1593 N84-20443

WOOD, J. G.
How to protect a wind turbine from lightning
[NASA-CR-168229] 01 p0102 N84-10661
WOOD, J. L.
Firebolt derivative/ramjet engine feasibility investigation (core engine program): Program summary
20 p3144 N84-29962
WOOD, J. R.
Investigation of the three-dimensional flow field within a transonic fan rotor: Experiment and analysis
[NASA-TM-83739] 22 p3531 N84-32357
WOOD, J. T.
World survey of magnetic mirror confinement research facilities
[DE84-009715] 19 p3108 N84-29749
WOOD, L. L.
Wafer-scale laser pantography. Part 6: Direct-write interconnection of VLSI gate arrays
[DE84-012676] 22 p3601 N84-32815
WOOD, M. D.
Determination of propped fracture length by detection of injected magnetic material with surface superconducting magnetometers
[PB84-181320] 17 p2696 N84-27176
WOOD, M. E.
Companion trainer aircraft: Concept test
[AD-A131378] 02 p0268 N84-11757
Recent developments in store separation and grid survey techniques using the ARA Two-Sting Rig
14 p2099 N84-23595
WOOD, R. F.
Update of pulsed-laser processing technology for high-efficiency silicon solar cells
[DE84-000638] 04 p0559 N84-13684
Beam processing for high-efficiency Si solar cells
[DE84-002059] 06 p0874 N84-15690
WOOD, R. L.
Design analysis of an aluminum-air battery for vehicle operations: Transportation systems research
[DE83-014488] 01 p0163 N84-11071
WOOD, R. M.
Wing planform effects at supersonic speeds for an advanced fighter configuration
[NASA-TP-2269] 11 p1601 N84-20486
Effect of fuselage upwash on the supersonic longitudinal aerodynamic characteristics of 2 fighter configurations
[NASA-TP-2330] 18 p2785 N84-27676
WOOD, S. A.
Identification of aerosol composition from multi-wavelength lidar measurements
[NASA-CR-173445] 18 p2877 N84-28266
WOOD, V. E.
Luneburg lens and optical matrix algebra research
[NASA-CR-172276] 08 p1231 N84-18047
WOOD, V. T.
Single Doppler velocity signatures: An Atlas of patterns in clean air/widespread precipitation and convective storms
[PB84-155779] 14 p2181 N84-24063
WOOD, W. E.
Analysis of microstructure and strengthening mechanisms in laser surface alloyed Fe-Cr and Fe-C-Cr alloy systems
[AD-A137971] 12 p1797 N84-21722
WOODALL, D. M.
Physics of high temperature, dense plasmas
[AD-A138872] 13 p2044 N84-23268
WOODARD, D. P., JR.
Unbalanced digital crosswalk in balanced, twisted pair, inside wiring cable 11 p1720 N84-21216
WOODARD, D. W.
Microwave, semiconductor research - materials, devices and circuits
[AD-A140052] 15 p2413 N84-25489
WOODARD, L. M.
Machine monitoring for turning machine
[DE84-010214] 19 p3003 N84-29029
WOODARD, R. P.
Invariant formulation of and radiative corrections in quantum gravity 22 p3668 N84-33249
WOODBURY, W. D.
Lead 19 p2992 N84-28959
WOODCOCK, C. E.
Relating spatial patterns in image data to scene characteristics 03 p0394 N84-12573
WOODCOCK, G. R.
Systems/operations technology
09 p1268 N84-18278
WOODEN, J. L.
Development of the Earth's early crust: Implications from the Beartooth Mountains 11 p1679 N84-20959
WOODEN, W. H.
Navstar Global Positioning System overview
[AD-A140793] 17 p2605 N84-26691
WOODFIELD, A. A.
Worldwide experience of wind shear during 1981-1982
06 p0776 N84-15087
Using an airborne CO2 CW laser for free stream airspeed and windshear measurements 24 p3850 N84-34417
Wind measurement with coherent laser radar at 10 microns 24 p3907 N84-34750
WOODFIELD, T. J.
A user's guide to ARSPIC: The univariate time series analysis program for autoregressive spectral information quantile identification
[AD-A132217] 04 p0581 N84-13831
A user's guide to BISAM: The bivariate data modeling program
[AD-A132722] 05 p0729 N84-14786
WOODFILL, M. C.
Intelligent editor/printer enhancements
[NASA-CR-170965] 09 p1364 N84-18909
WOODFIN, G.
Intelligent optical design program
[DE84-010071] 20 p3279 N84-30813
WOODGER, J. R.
First results of GPS time transfer to Australia
10 p1475 N84-19635
WOODLE, K. A.
Intense positron beams: Linacs; preworkshop copy
[DE83-012941] 01 p0146 N84-10958
WOODMAN, R. F.
Capabilities and limitations of the Jicamarca radar as an MST radar 17 p2690 N84-27130
The Arecibo Observatory as an MST radar
17 p2691 N84-27138
Decoders for MST radars 17 p2692 N84-27146
Decoding: Codes and hardware implementation
17 p2694 N84-27160
Spectral moment estimation in MST radars
17 p2696 N84-27173
WOODMAN, R. W.
Effects of confirmed and disconfirmed expectations: A naturally occuring experiment
[AD-A141857] 19 p3068 N84-29461
WOODRUFF, C. D.
Needed help for the Federal Acquisition Regulation Council
[AD-P002769] 13 p2053 N84-23316
WOODRUFF, C. J.
A preliminary assessment of observer expectations in target detection tasks
[MRL-R-893] 05 p0715 N84-14682
Cognitive processes in target acquisition
24 p3914 N84-34783
Development of texture descriptions for images
24 p3914 N84-34785
WOODRUFF, C. M., JR.
Geothermal potential along the Balcones/Ouachita trend, central Texas: Ongoing assessment and selected case studies
[DE84-010826] 20 p3241 N84-30578
Lineaments of Texas: Possible surface expressions of deep-seated phenomena
[DE84-010827] 21 p3445 N84-31858
WOODRUFF, G. L.
Transmission of fast neutrons from the Li(d,xn) reaction through thick iron
[DE83-015975] 03 p0439 N84-12884
WOODRUFF, R. R.
Comparison of color versus black-and-white visual displays as indicated by bombing and landing performance in the 2B35 TA-4J flight simulator
[AD-A144674] 24 p3857 N84-34455
WOODRUFF, T. O.
Properties of 3-dimensional energetic solids and molecular crystals
[AD-A137927] 11 p1744 N84-21382
WOODS, A.
The 55-meter-structure flight experiment
08 p1112 N84-17233
WOODS, A. A. J.
Vibration Control Of Space Structures VCOSS A: High and low-authority hardware implementations
[AD-A139931] 15 p2281 N84-24702
WOODS, C. A.
Low-temperature forming of beta titanium alloys
[NASA-CR-3706] 02 p0193 N84-11253
WOODS, D. C.
Airborne measurements of launch vehicle effluent of STS-2 launch on November 12, 1981 at Cape Canaveral, Florida
[NASA-TP-2260] 09 p1342 N84-18764
WOODS, J. E.
NBS (National Bureau of Standards) Workshop: Environmental Control for Archival Records Storage
[PB83-242230] 03 p0460 N84-13026
WOODS, J. F.
Worldwide experience of wind shear during 1981-1982
06 p0776 N84-15087
WOODS, K. D.
Habitability of the Earth 21 p3427 N84-31740
WOODS, P.
Braking-turning-maneuvering stability of heavy transporters 10 p1512 N84-19897
WOODS, W. A.
Language processing for speech understanding
[AD-A131281] 01 p0065 N84-10423
Natural language communication with machines: An ongoing goal
[AD-A131320] 02 p0278 N84-11820
What's important about knowledge representation
[AD-A131280] 02 p0278 N84-11825
WOODS, W. C.
A review of preflight estimates of real-gas effects on space shuttle aerodynamic characteristics
01 p0020 N84-10129
WOODSFORD, P. A.
New developments in digitizing and processing map data on large scales by Ordnance Survey (OS), Southampton, England 07 p1018 N84-16607
WOODWARD, D.
Reports on cartography and geodesy. Series 2: Translations, number 41. Report on high precision gravimetry, volume 2
[ISSN-0469-4244] 19 p3043 N84-29306
WOODWARD, J.
Immobilized chloroplast-ferredoxin-hydrogenase system for the simultaneous photoproduction of hydrogen and oxygen
[DE83-015703] 02 p0205 N84-11333
WOODWARD, P. R.
Simulation of the Kelvin-Helmholtz instability of a supersonic slip surface with the Piecewise-Parabolic Method (PPM)
[DE84-013219] 22 p3595 N84-32768
WOODWARD, R. L.
Bending of beams subjected to transverse impacts
[MRL-R-886] 05 p0692 N84-14544
Bending of beams subjected to transverse impacts
[AD-A137840] 11 p1668 N84-20884
WOODWARD, R. P.
Fan noise reduction achieved by removing tip flow irregularities behind the rotor - forward arc test configurations
[NASA-TM-83616] 13 p2040 N84-23235
WOODWARD, W. A.
Minimum distance estimation of mixture model parameters: Asymptotic results and simulation comparisons with maximum likelihood
[AD-A130426] 01 p0136 N84-10889
Center of Excellence for Applied Mathematical and Statistical Research in support of development of multicrop production monitoring capability
[E84-10062] 10 p1520 N84-19953
WOODWELL, G. M.
Deforestation measured by LANDSAT: Steps toward a method
[DE83-016845] 04 p0554 N84-13652
Test of the use of LANDSAT imagery to detect changes in the area of forest in the tropics
[DE84-004444] 08 p1179 N84-17680
WOODWORTH, F.
A 500-watt solid-state RF power amplifier AM-7209( )/VRC
[AD-A129327] 01 p0071 N84-10463
WOODWORTH, J. R.
Ultraviolet-laser triggering of a 5-megavolt multistage gas switch
[DE83-013641] 01 p0087 N84-10570
Ultraviolet laser triggering of the 6 MV PBFA-2 gas switch
[DE84-014004] 23 p3755 N84-33802
WOODY, C. D.
Neuronal adaptive mechanisms underlying intelligent information processing
[AD-A133694] 06 p0889 N84-15776
WOODY, J. A.
Metal-insulator-metal junctions as surface sources of intermodulation
[AD-A130451] 01 p0043 N84-10279
Modeling of parasitic effects in discrete passive components
[AD-A130458] 01 p0070 N84-10460
WOOL, R. P.
Crack healing in polymers
[AD-A134488] 07 p0979 N84-16343
WOOLF, A.
An interactive computer program for analysis of ultrasonic modulus data on anistropic materials
[NPL-DMA(A)-68] 03 p0388 N84-12526
WOOLF, N. J.
Innovative research in the design and operation of large telescopes for space: Aspects of giant telescopes in space 17 p2765 N84-27560

WOOLF, S.
Mathematical modelling of waveguiding techniques and electron transport, volume 2
[AD-A139604] 15 p2391 N84-25350
Mathematical modelling of waveguiding techniques and electron transport, volume 1
[AD-A139603] 15 p2397 N84-25382
WOOLHOUSE, D.
Space Shuttle Orbiter rudder/speed brake actuation system 09 p1295 N84-18461
WOOLRIDGE, K. W.
DTIC 2000: A corporate plan for the future
[AD-A143900] 23 p3835 N84-34327
WOOLSEY, G. D.
The wetting of ceramic opaque suspensions on oxidized alloy surfaces
[AD-A142899] 21 p3370 N84-31381
WOOLUM, D. S.
Microprobe analyses of rare-earth-element fractionation in meteoritic minerals
[DE83-017326] 04 p0621 N84-14097
WOONG, C. J.
An iteration algorithm for optimal network flows
[AD-A136183] 09 p1304 N84-18523
WOOSLEY, S. E.
Radioactive-ion-beam research at Livermore
[DE83-014872] 02 p0297 N84-11946
Nuclear physics problems for accreting neutron stars
[DE83-017297] 04 p0620 N84-14092
Nucleosynthesis in stellar explosions
[DE84-002787] 07 p1090 N84-17087
High energy transients
[NASA-CR-173944] 23 p3838 N84-34347
WOOTEN, F.
Structure and vibrational spectra of a model of a-Si:H with periodic boundary conditions
[DE83-015245] 03 p0367 N84-12390
WOOTEN, G. W.
Passive sampling device for ambient air and personal monitoring
[PB84-210046] 22 p3599 N84-32798
WOOTEN, H. A.
Neutral carbon in the Egg Nebula (AFGL 2688)
[NASA-TM-84360] 16 p2574 N84-26518
WOOTTON, H.
Interference measurements on amplitude compandored single sideband (ACSB) land mobil radio
[PB84-123645] 10 p1484 N84-19702
WOOTTON, R. E.
Triggered spark gap discharger
[AD-D011174] 23 p3742 N84-33724
WORATSCHEK, R.
JUH-1H pneumatic boot deicing system flight test evaluation
[AD-A140986] 18 p2793 N84-27725
WORECK, W. E.
Simplified thermal transient test for electro explosive devices
[AD-A132970] 18 p2844 N84-28060
WORKMAN, J. B.
The microstructure theory for three dimensional plasma transport
[AD-A138285] 12 p1910 N84-22441
WORLEY, G. G.
A real-time air dispersion modeling system
[AD-A141405] 19 p3052 N84-29368
WORLEY, J. K.
An analysis of relationships among size, technology and structure in a contextually limited setting
17 p2771 N84-27597
WORM, G. H.
Risk analysis: Comparing different contract types
[AD-P002788] 13 p2056 N84-23335
Interactive risk analysis and development of standardized factors
[AD-A140758] 17 p2753 N84-27473
WORMECK, J. J.
PDF: A computer program for calculation of turbulent combustion utilizing a Probabilty Density Function (PDF) approach
[DE84-000999] 04 p0494 N84-13240
CI: A computer program for calculation of contact indexes which will correct reaction rates evaluated by mean quantities during simulation of turbulent combustion
[DE84-001000] 04 p0494 N84-13244
Computation of turbulent reacting flows: Comparison of various mixing/chemistry interaction models
[DE84-000998] 04 p0534 N84-13514
PDF: A computer program for calculation of turbulent combustion utilizing a Probability Density Function (PDF) approach
[DE84-002525] 05 p0651 N84-14278
WORMELY, S. J.
Elastic-wave scattering from multiple voids (porosity)
[DE83-018076] 04 p0546 N84-13598
WORMLEY, D. N.
Application of active and passive suspension techniques to improve high speed ground vehicle performance
[PB83-224576] 01 p0164 N84-11076
WORMLEY, S. J.
Computational tool for the design of ultrasonic systems
[DE83-018092] 03 p0431 N84-12824
WORRALL, D. M.
The broad-band X-ray spectrum of a QSO sample
[NASA-TM-85071] 22 p3681 N84-33333
WORRELL, R. B.
Boolean computation of optimum hitting sets
[DE84-012920] 20 p3283 N84-30842
WORRELL, W. L.
Development of new intercalated cathode materials for use in sodium batteries
[NASA-CR-173145] 07 p0997 N84-16460
WORREST, R. C.
Impact of enhanced solar UV-B radiation upon the marine ecosystem
[PB83-247411] 04 p0560 N84-13694
WORTH, G.
The MSAD actuator scienoid, performance evaluation and modification
[DE83-011216] 01 p0074 N84-10483
WORTHEY, J. A.
Visual clarity with a black-and-White scene
[AD-A141498] 19 p3065 N84-29445
WORTHEY, M. K.
Advanced prediction technique for the low speed aerodynamics of V/STOL aircraft. Volume 1: Technical discussion
[NASA-CR-166442-VOL-1] 17 p2600 N84-26662
Advanced prediction technique for the low speed aerodynamics of V/STOL aircraft. Volume 2: User's manual
[NASA-CR-166442-VOL-2] 17 p2600 N84-26663
WORTHLEY, J. P.
Local network wideband interconnection alternatives
[AD-A138604] 13 p1982 N84-22868
WORTMAN, D.
Solar and internal gain adjustments in calculation of energy conservation savings
[DE83-011983] 16 p2512 N84-26119
Measured versus predicted performance of the SERI test house: A validation study 16 p2513 N84-26128
WORTMAN, J. D.
Boundary condition and strain-rate effects on the response of blast-loaded beams
[AD-A140428] 16 p2502 N84-26061
WORTMAN, J. J.
Interplanetary dust experiment (A0201)
15 p2277 N84-24671
WORTMANN, F. X.
A possibility of avoiding surface roughness due to insects
[NASA-TM-77419] 23 p3690 N84-33384
WOYCZYNSKI, W. A.
Convergence of quadratic forms in p-stable random variables and theta sub p-radonifying operators
[AD-A135314] 08 p1219 N84-17959
WOYK, C. E.
Gravito-magnetic origin of the temperature of a stellar corona 15 p2421 N84-25545
WOZENCRAFT, J. M.
Lanchester's equations and game theory
[AD-P002877] 13 p1978 N84-22838
WOZNIAK, K.
Air-jet milling of grinding materials
[NASA-TM-77366] 09 p1291 N84-18430
WOZNICK, B.
CRONUS: A distributed operating system
[AD-A139983] 15 p2388 N84-25328
WOZNY, M. J.
Interactive graphics for geometry modeling
12 p1873 N84-22207
Impact of IPAD on CAD/CAM database university research 12 p1891 N84-22318
WRAY, W. O.
Passive solar design procedures for Naval installations
[AD-A136329] 09 p1341 N84-18760
WRAY, W. O., JR.
A wind tunnel database using RIM
12 p1891 N84-22313
WREDE, M.
Development of a transimpedance amplifier for cryotemperatures, study
[BMFT-FB-W-84-023] 21 p3407 N84-31610
WREKSOMINDOJO, E. S.
An approach to the design of a management information system: Development procedure for the Indonesian defense logistics staff
[AD-A134974] 08 p1240 N84-18108
WREN, C. A.
A circulation meter for the measurement of discrete vortices
[BU-300] 15 p2256 N84-24551
WRENN, G.
Observations of the GEOS-2 equilibrium potential and its relation to the ambient electron energy distribution
08 p1116 N84-17256
Comparison of thermal plasma observations on SCATHA and GEOS 08 p1117 N84-17262
Ion measurements on GEOS using a negatively biased sensor on a positively charged spacecraft
08 p1117 N84-17263
WRENN, G. L.
Observations of differential charging with METEOSAT
[AD-P002112] 16 p2523 N84-26198
WRIGHT, A. S., JR.
A flight test of laminar flow control leading-edge systems
[NASA-TM-85712] 05 p0625 N84-14110
WRIGHT, B. L.
Fluctuations in 3 Los Alamos experiments
[DE83-014158] 01 p0151 N84-10994
Analysis of surface currents on the CTX mesh flux conserver
[DE84-007491] 20 p3305 N84-30989
WRIGHT, B. W.
Supercritical fluid methods in analytical chemistry
[DE84-008289] 15 p2288 N84-24728
Ohmic heating to 100-eV and helicity injection in CTX
[DE84-007494] 20 p3304 N84-30986
WRIGHT, D. D.
Managing distributed databases in partitioned networks 17 p2772 N84-27599
WRIGHT, E. M.
Connection between Ikeda instability and phase conjugation 14 p2232 N84-24390
WRIGHT, F. T.
Robust estimates of ordered parameters
[AD-A131204] 02 p0282 N84-11846
A measure of the conformity of a parameter set to a trend: The partially ordered case
[AD-A131214] 02 p0285 N84-11866
Tests for an increasing trend in the intensity of a Poisson process: A power study
[AD-A131213] 02 p0285 N84-11867
Tests for and against trends among Poisson intensities
[AD-A131212] 02 p0285 N84-11868
Approximating the level probabilities in order restricted inference: The simple tree ordering
[AD-A140684] 17 p2760 N84-27525
WRIGHT, H., JR.
Geology, hydrology, and mineral resources of crystalline rock areas of the Lake Superior region, US, part 1
[DE84-012682] 21 p3432 N84-31775
WRIGHT, I.
Results of a questionnaire on the teaching of Computer-Aided Engineering (CAE) on undergraduate courses
[TT-8404] 24 p3937 N84-34919
WRIGHT, I. G.
Chemical vapor deposition of erosion resistant TiB-2 coatings
[DE84-012351] 22 p3556 N84-32518
WRIGHT, J.
Extinguisher agent behavior in a ventilated small aircraft
[FAA-CT-83-30] 07 p0949 N84-16158
WRIGHT, J. D.
Oil/salt hydrate direct-contact heat-exchange experiments
[DE83-009396] 01 p0082 N84-10533
Evaluation of air-cooled central receivers
[DE83-005130] 06 p0833 N84-15423
Requirements for high-temperature air-cooled central receivers
[DE84-000081] 20 p3235 N84-30534
Evaluation of sulfuric acid hydrolysis processes for alcohol fuel production
[DE84-004524] 23 p3715 N84-33548
WRIGHT, J. J.
Alkali-SCl2 chemiluminescence: Vibrational population inversion in the B state of S2
[AD-A143639] 23 p3754 N84-33794
WRIGHT, L.
Alignment telescope for Antares
[DE83-014179] 01 p0088 N84-10576
WRIGHT, L. A.
Beam propagation experimental study
[AD-A133310] 06 p0915 N84-15946
WRIGHT, L. H.
Application of remote sensing to state and regional problems
[E84-10128] 14 p2168 N84-23986

WRIGHT, M. H.
Documentation for FDCALC and FDCORE
[DE83-013886] 01 p0124 N84-10808
User's guide for SOL/NPSOL: A FORTRAN package for nonlinear programming
[DE83-016903] 03 p0421 N84-12751
User's guide for SOL/QPSOL: A FORTRAN package for quadratic programming
[DE83-016990] 03 p0421 N84-12752
On the representation of a basis for the null space
[AD-A136419] 09 p1375 N84-18979
WRIGHT, M. R.
General aviation pilot and aircraft activity survey
[PB84-154301] 14 p2100 N84-23602
WRIGHT, N. A.
Analysis of the world distribution of metal-rich subsea manganese nodules
[USGS-CIRC-886] 03 p0395 N84-12577
WRIGHT, P. K.
Testing and control of a compliant wrist
[AD-A140842] 17 p2748 N84-27445
WRIGHT, R. B.
Effect of oxygen monolayer coverages on titanium sputtering yields as determined by simultaneous laser fluorescence and Auger measurements
[DE83-014716] 01 p0046 N84-10296
WRIGHT, R. L.
Space Station Technology, 1983
[NASA-CP-2293] 09 p1268 N84-18277
Interactive systems design and synthesis of future spacecraft concepts
[NASA-TM-86254] 19 p2981 N84-28893
WRIGHT, S. E.
Studies in a transonic rotor aerodynamics and noise facility
[NASA-CR-166588] 22 p3538 N84-32399
WRIGHT, T. P.
Magnetic trapping of intense ion beams
[DE83-017356] 03 p0437 N84-12866
Grad-B drift transport of high current electron beams
[DE84-000115] 04 p0602 N84-13977
WRIGHT, W. H., JR.
High power optical switch for microsecond switching
[AD-D011064] 19 p3017 N84-29123
WRIGHT, W. J.
New experimental techniques with the split Hopkinson pressure bar
[DE84-003818] 20 p3190 N84-30268
WRIGHTON, F. M.
The development of a geopressured energy management information and analysis system in support of research planning: Third year
[PB84-174481] 16 p2511 N84-26116
WRIGHTON, M. S.
Characterization of p-type CdTe electrodes in acetonitrile/electrolyte solutions. Nearly ideal behavior from reductive surface pretreatments
[AD-A130764] 01 p0071 N84-10466
Chemically derivatized semiconductor photoelectrodes
[AD-A130716] 01 p0152 N84-11003
Photochemical conversion of H-2Os-3(CO)10(P-Donor) to H-2Oc-3(CO)9(P-Donor) in solution and on high surface area silica
[AD-A136991] 10 p1455 N84-19501
X-ray photoelectron and Auger electron spectroscopic study of the CdTe surface resulting from various surface pretreatments: Correlations of photoelectrochemical and capacitance-potential behavior with surface chemical composition
[AD-A138601] 13 p1956 N84-22714
Mechanisms of photochemical reactions of transition metal complexes: Excited state electron transfer and organometallic photochemistry
[AD-A140006] 15 p2287 N84-24722
WRIGLEY, R. C.
Investigation of several aspects of LANDSAT-4 data quality
[E84-10076] 07 p1021 N84-16623
Investigation of several aspects of LANDSAT-4 data quality
[E84-10122] 14 p2167 N84-23981
Assessment of Thematic Mapper band-to-band registration by the block correlation method
20 p3210 N84-30396
Impact of LANDSAT MSS sensor differences on change detection analysis 20 p3212 N84-30408
The effect of spatial, spectral and radiometric factors on classification accuracy using thematic mapper data
[NASA-TM-85995] 20 p3227 N84-30510
Investigation of several aspects of LANDSAT 4/5 data quality
[E84-10024] 22 p3613 N84-32892
The effect of spatial, spectral and radiometric factors on classification accuracy using Thematic Mapper data
23 p3766 N84-33872
WRISBERG, C. A.
Variability of practice and the transfer of training of motor skills
[AD-A142896] 21 p3459 N84-31942
WU, A. Y.
Embedding of networks of processors into hypercubes
[AD-A139647] 15 p2397 N84-25384
Simulation of large networks of processors by smaller ones
[AD-A143529] 22 p3643 N84-33098
WU, C.
Performance evaluation of the JPL interim digital SAR processor 07 p0989 N84-16407
Pipelined digital SAR azimuth correlator using hybrid FFT-transversal filter
[NASA-CASE-NPO-15519-1] 24 p3893 N84-34651
WU, C. C.
Computer modeling of fast collisionless reconnection
[DE84-006714] 14 p2229 N84-24367
WU, C. D.
Electrochemical studies of redox systems for energy storage
[NASA-CR-174503] 06 p0673 N84-15681
WU, C. F. J.
Experimental designs for quantal response models
[AD-A133416] 06 p0901 N84-15851
Efficient model-based sequential designs for sensitivity experiments
[AD-A134573] 07 p1064 N84-16899
Comparison of the dichotomous and polychotomous quantal response models
[AD-A137938] 11 p1715 N84-21185
Bootstrap inference with stratified samples
[AD-A139313] 14 p2218 N84-24312
Jackknife and bootstrap inference in regression and a class of representations for the LSE
[AD-A141505] 19 p3093 N84-29641
Efficient sequential designs with binary data
[AD-A142904] 21 p3473 N84-32008
WU, C. P.
Design and implementation of a reentrant page editing processor 24 p3959 N84-35066
WU, C. S.
Comparison of thermal, line-source electron beam and CW laser annealing for the fabrication of ErSi/sub 2 Schottky barrier on Si
[DE84-003105] 07 p1081 N84-17031
Acceleration of ions and electrons by wave-particle interactions
[AD-A142341] 20 p3292 N84-30900
WU, C. T.
Navier-Stokes simulation of homogeneous turbulence on the CYBER 205 10 p1560 N84-20224
WU, E. M.
Matrix-dominated time-dependent deformation and damage of graphite/epoxy composite experimental data under creep and recovery
[AD-A139064] 13 p1954 N84-22704
Matrix-dominated time-dependent deformation and damage of graphite epoxy composite -- experimental data under multiple-step relaxation
[AD-A141697] 19 p2986 N84-28920
WU, F. H.
Initiation and propagation of shear bands in antiplane shear deformation
[AD-A140741] 17 p2624 N84-26794
WU, G.
Interactive creation of instructions for interactive graphic analysis (INGA)
[ISD-300] 15 p2390 N84-25337
Interactive creations and modification of chinese characters
[ISD-299] 15 p2417 N84-25513
WU, H. C.
Stress distribution in a cylindrical bar subjected to cyclic torsional loading
[AD-A139413] 14 p2158 N84-23929
Stress distribution in a cylindrical bar subjected to cyclic torsional loading
[AD-P002957] 14 p2199 N84-24197
WU, I. W.
Critical current density of bronze-processed multifilimentary Nb-3Sn wires with magnesium addition to the matrix
[DE84-014579] 23 p3719 N84-33576
WU, J. J.
Longitudinal vibrations of rods of finite length with radial deformation
[AD-A142674] 21 p3421 N84-31703
WU, J. L.
The automatic remote sensing system on a 320 meter meteorological tower
[AD-A137144] 10 p1539 N84-20085
WU, K. C.
A helium refrigerator with features for supercritical pressure cooling
[DE84-017759] 04 p0515 N84-13383
Combined cold compressor/ejector helium-refrigerator cycle
[DE83-017764] 04 p0515 N84-13385
WU, K. Y.
An analytical study of cylindrical- and spherical-rectangular microstrip antennas
08 p1142 N84-17428
WU, L.
A successive transformation method for the dynamic analysis of damped systems 05 p0694 N84-14559
WU, L. K.
Focusing the parabolic antenna
[NASA-CR-173304] 08 p1173 N84-17642
Determination of the sources of radar scattering
12 p1834 N84-21954
WU, M. L. C.
A new parameterization of 15 micron radiative transfer for a GCM 12 p1858 N84-22105
WU, N. R.
Annealing of interstitial loops in arsenic implanted silicon
[DE84-000384] 05 p0755 N84-14953
WU, R.
Analysis of fracture modes during extrusion and drawing of bimetal rods or wire
[DE84-009849] 20 p3157 N84-30051
WU, R. I. C.
Ion-molecule reactions and plasma parameters of positive column in oxygen glow discharge
21 p3476 N84-32036
WU, R. L. C.
Investigation of the dynamics and threshold behavior of endothermic negative ion-neutral reactions
[DE84-001369] 04 p0602 N84-13975
WU, R. W.
Approximate numerical predictions of impact-induced structural responses 10 p1511 N84-19890
WU, S. J.
Low temperature sintering of Al2O-CaO
[DE84-010713] 20 p3183 N84-30083
WU, S. T.
Preliminary studies of Solar Advance Observatory and Solar Beacon Facility
[NASA-CR-170937] 03 p0486 N84-13066
Lateral-torsional response of structures subjected to seismic waves
[PB83-239582] 04 p0516 N84-13390
Analysis of data acquired by synthetic aperture radar over Dade County, Florida, and Acadia Parish, Louisiana
[E84-10067] 06 p0865 N84-15636
Parametric analysis of synthetic aperture radar data acquired over truck garden vegetation
23 p3767 N84-33878
WU, T. T.
Fields and currents and charges on obstacles in a parallel-plate simulator at selected frequencies and with pulse excitation
[AD-A132406] 04 p0520 N84-13418
WU, W. D.
Eigenvector matrices of symmetric tridiagonals
[AD-A134172] 07 p1061 N84-16880
WU, X.
The synthesis of ternary functions under fixed polarities and ternary I-2L circuits
[AD-P002381] 14 p2196 N84-24172
WU, Z.
A free boundary problem for degenerate quasilinear parabolic equations
[AD-A141608] 19 p3085 N84-29585
WUBS, F. W.
Grid-size reduction in flow calculations on infinite domains by higher-order far-field asymptotics in numerical boundary conditions
[NLR-MP-83029-U] 20 p3187 N84-30253
WUDL, F.
Role of pressure in understanding the anomalous superconductivity in europium (molybdenum)6(sulfur)8 and (TMTSF)2FSO3
[DE83-017292] 06 p0925 N84-16012
Charge storage in doped poly(thiophene)
[AD-A137085] 10 p1455 N84-19506
Program for research on conducting polymers
[AD-A142148] 19 p3000 N84-29009
WUEBBLES, D. J.
A theoretical analysis of the past variations in global atmospheric composition and temperature structure
08 p1190 N84-17754
WUEBKER, F. E.
Military Computer Family Operating System: An Ada (trademark) application
[AD-P003427] 20 p3271 N84-30759

WUENSCH, B. J.
The impact of NEBULA, MCF (Military Computer Family), and Ada (Trademark) on real-time embedded computer systems
[AD-P003534] 21 p3331 N84-31138

WUENSCH, B. J.
Principles of superionic conduction
[DE84-001215] 04 p0613 N84-14044
Relation between structure and conductivity in the nasicon solid solution system 11 p1743 N84-21374

WUENSTEL, K.
Research on diffusion and complex behavior of elements forming recombination centers in silicon by means of optical and electrical measurement techniques
[BMFT-FB-T-83-117] 02 p0300 N84-11971
Analysis of impurities forming recombination centers in silicon
[BMFT-FB-T-84-049] 19 p3113 N84-29779

WUERCH, D. R.
Geothermal potential along the Balcones/Ouachita trend, central Texas: Ongoing assessment and selected case studies
[DE84-010626] 20 p3241 N84-30578

WUERFL, J.
Micro-reactions of metal contacts on various types of GaAs surfaces
[AD-A139412] 14 p2242 N84-24464

WUERMSEER, M.
Laser range finding technology for space to space applications. Volume 1: Laser diode range finder functional model
[MBB-UR-606-83-O-VOL-1] 09 p1324 N84-18648

WUEST, M. E.
Simulated 3-dimensional computer graphics training display for air weapons controllers. Volume 2: Users guide
[AD-A141336] 19 p3075 N84-29510

WUEST, P.
An integrated AFCS for the "PROFILE"-mode 03 p0317 N84-12069

WULF, F.
GfW handbook: Irradiation test guidelines for radiation hardness of electronic components
[HMI-B-380] 17 p2664 N84-26994

WULF, R.
The new calibration tank for engine simulators at DFVLR Goettingen 14 p2099 N84-23593

WUNDER, M. D.
Testing of turboshaft engines 16 p2453 N84-25729

WUNDERLICH, M. E.
Mass spectrometry detection of neutral dissociative fragments
[AD-A135847] 09 p1279 N84-18351

WURFEL, H. G. F.
F-16 and A-10 diffraction optics Head Up Display (HUD) flight test evaluation 24 p3849 N84-34411

WURM, J.
Gas-fired heat pump research and development: Review and assessment
[PB84-153907] 14 p2135 N84-23796

WURSTER, W. H.
Mach number and density effects in the mixing of supersonic jets 13 p1942 N84-22628

WURTELE, J.
High gain free electron laser at ETA
[DE84-002001] 05 p0686 N84-14512

WURTELE, M. G.
A new parameterization of an empirical model for wind/ocean scatterometry 17 p2712 N84-27269
First global analysis of SEASAT scatterometer winds and potential for meteorological research 17 p2720 N84-27315

WURZEL, D. P.
On the optimal design of bidirectional composites
[AD-A131353] 02 p0188 N84-11221

WUSATOWSKI, T.
Kasprzyk airfoil. The first wind-tunnel tests
[NASA-TM-77757] 23 p3889 N84-33380

WYATT, F.
High precision measurements in crustal dynamic studies
[NASA-CR-173680] 18 p2879 N84-28279

WYATT, J. L.
Custom integrated circuits 22 p3684 N84-33361

WYBENGA, F. T.
A new non-destructive and standardless method for the thickness determination of thin films by XRF measurement 06 p0815 N84-15308

WYDERSKI, M. T.
Evaluation of 'Sorbothane' cushioning material
[AD-A139079] 13 p1964 N84-22763

WYDEVEN, T. J.
Composition and analysis of a model waste for a CELSS (Controlled Ecological Life Support System)
[NASA-TM-84368] 02 p0269 N84-11760
Method for the preparation of thin-skinned asymmetric reverse osmosis membranes and products thereof
[NASA-CASE-ARC-11359-1] 18 p2894 N84-28361

WYGNANSKI, I.
On the relationship between transitional and fully turbulent shear flow
[AD-A133808] 05 p0680 N84-14469

WYKES, J. H.
Flight test and analyses of the B-1 structural mode control system at supersonic flight conditions
[NASA-CR-170405] 04 p0487 N84-13197

WYLIE, D. P.
Enhancement of SEASAT wind-stress measurements using data from GOES
[PB84-111244] 08 p1192 N84-17773

WYLIE, G. J.
Utilization of Ada as a program design language
[AD-A132244] 04 p0580 N84-13830

WYMAN, C. L.
The AXAF technology program: The optical flats tests
[NASA-TM-82570] 10 p1578 N84-20341

WYMAN, E. W.
Polarizing holographic reflector for Electron Cyclotron Resonant Heating (ECRH) on the Tandem Mirror Experiment Upgrade (TMX-U)
[DE84-003740] 08 p1162 N84-17568

WYMAN, R. H.
Report on the experience with the Supervisory Control and Diagnostics System (SCDS) of MFTF-B
[DE84-012599] 20 p3278 N84-30807

WYMER, F. J.
The ISPM solar-wind plasma experiment 09 p1261 N84-18231

WYNTJES, G.
Fiber optic current probe
[DE84-007964] 19 p3105 N84-29729

WYNVEEN, R. A.
Surplus Facilities Management Program. Post-remedial-action survey report for SNAP-8 Experimental Reactor Facility, building 010 site, Santa Susana Field Laboratories, Rockwell International, Ventura County, California
[DE84-009591] 21 p3497 N84-32165

WYSZYNSKI, W.
Preliminary investigations of 360 kJ plasma focus device, part 2 10 p1581 N84-20359

WYTH, D.
Assessment methodology for the A-7E: Scale model coupling experiments
[DE84-003139] 09 p1256 N84-18199

WYTHE, D. M.
F-14 scale model measurements. Part 1: External response
[DE84-006201] 15 p2258 N84-24562

X

XI, M.
Preliminary study of microtektites first discovered in the central Pacific by China
[NASA-TM-77470] 14 p2250 N84-24514

XI, Z. Z.
Nd(3+): Yag laser pumped simultaneously by CW and pulsed light
[AD-A131092] 01 p0086 N84-10564

XIAO-PING, Z.
Baroclinic inertial instability in the non-static equilibrium atmosphere
[BLL-TRANS-1568-(9022.552)] 08 p1189 N84-17751

XIAO, P.
Fatigue of niobium at elevated temperatures
[DE84-001373] 05 p0656 N84-14314

XIAOEN, L.
A method to estimate the vertical dispersion parameter in a 10 Km range
[AD-A137192] 11 p1683 N84-20982
A numerical analysis of the effect of inhomogeneity and wind speed shear on the vertical dispersion in the mesoscale range
[AD-A137188] 11 p1688 N84-21006

XIE, Z. M.
Synthesis of phosphorus-nitrogen polymers using Si-N-P reagents
[AD-A135224] 08 p1137 N84-17392
Synthesis and structure of sulfur derivatives of a (methylene)phosphine
[AD-A141513] 19 p2984 N84-28909

XIEGI, M.
A comment on the plateau combustion mechanism of the double-base propellants
[AD-A132551] 04 p0509 N84-13333

XIN, R.
First Chinese-built fighter simulator described 12 p1773 N84-21562

XING-SHENG, L.
The relation between the gravity current in the atmospheric boundary layer and local heavy rainfall
[AD-A137193] 10 p1539 N84-20086

XINTIAN, Y.
The calculation of the heat transfer associated with the injection of methane gas at the stagnation point of the dissociated boundary layer of the laminar air flow
[AD-A139063] 13 p1990 N84-22918

XINYUAN, J.
A method to estimate the vertical dispersion parameter in a 10 Km range
[AD-A137192] 11 p1683 N84-20982

XIONG, S.
Transactions of the Chinese Solar Energy Society (selected articles)
[AD-A131870] 03 p0403 N84-12637

XIULING, Y.
Preliminary investigation of fatigue crack propagation of 30CrMnSiA steel in salt spray corrosion conditions 20 p3160 N84-30068

XU, J.
Parametric characteristics of an electrically initiated HF laser
[AD-A144324] 24 p3908 N84-34757

XU, X.
Electromagnetic wave theory and remote sensing 22 p3683 N84-33350

XU, Y. J.
A study of physical processes for space radiation protection
[NASA-CR-173183] 07 p1071 N84-16954
Intermediate energy proton stopping power for hydrogen molecules and monoatomic helium gas 07 p1071 N84-16955
Low-energy proton stopping power of N2, O2 and water vapor and deviations from Bragg's rule 07 p1071 N84-16956
A theoretical model for calculation of molecular stopping power 07 p1071 N84-16957
Mean excitation energies for stopping powers in various materials using local plasma oscillator strengths
[NASA-TP-2271] 11 p1760 N84-21485

XUE-HUI, L.
The crack-inclusion interaction problem
[NASA-CR-172308] 10 p1516 N84-19928

XUE, J.
The JILA (Joint Institute for Laboratory Astrophysics) portable absolute gravity apparatus
[AD-A132199] 05 p0684 N84-14495

XUEXUN, Z.
International aviation (selected articles)
[AD-A140895] 17 p2601 N84-26671

XUEYI, F.
Journal of the Chinese Society of Astronautics (selected articles)
[AD-A131032] 02 p0183 N84-11191

XUEYU, C.
The proximity effects of superconducting multilayer film
[AD-A143255] 22 p3662 N84-33217

Y

YAAKOBI, B.
Development of a focussing-crystal spectrograph for X-rays from laser-fusion targets
[DE83-012802] 01 p0148 N84-10973

YABE, K.
Flexible composite film for printed circuit board
[NASA-TM-77109] 01 p0069 N84-10452
Flexible substrate for printed wiring
[NASA-TM-77459] 10 p1451 N84-19478

YABLONIK, R. M.
More precise numerical simulation of transsonic flow through passages in turbomachines 13 p1970 N84-22786

YABUSAKI, S. B.
MEXAMS (Metals exposure analysis modeling system)
[PB84-157155] 12 p1799 N84-21736

YADIN, M.
The visibility of stationary and moving targets in the plane subject to a Poisson field of shadowing elements
[AD-A141305] 18 p2927 N84-28562
Approximating the probabilities of detecting and of hitting targets and the probability distribution of the number of trials along the visible portions of curves in the plane subject to a Poisson shadowing process
[AD-A141327] 18 p2927 N84-28563

YAGHJIAN, A. D.
Approximate formulas for the far fields and gain of open-ended rectangular waveguide
[PB83-233999] 02 p0212 N84-11384

Broadside radar cross section of the perfectly conducting cube
[AD-A143321] 22 p3577 N84-32656

YAGODOVSKIY, D. L.
Effect of laminated structure in materials based on complexes with charge transfer
18 p2826 N84-27943

YAHIEL, D. I.
Stress assessment through voice analysis
[AD-A132577] 04 p0573 N84-13773

YAHSI, O. S.
A cylindrical shell with a stress-free end which contains an axial part-through or through crack
[NASA-CR-173290] 08 p1169 N84-17617
A pressurized cylindrical shell with a fixed end which contains an axial part-through or through crack
[NASA-CR-173291] 08 p1169 N84-17618

YAHYA, A. H.
Deduction in nonhorn databases
22 p3670 N84-33263

YAJUN, L.
Flow mechanism and experimental investigation of a rotating stall in transonic compressors
[NASA-TM-77373] 06 p0782 N84-15122

YAKHIMOVICH, S. I.
Numerical calculations of the function of the static receptivity of electrons in metals
[BLL-M-35640-(5828.4)] 22 p3551 N84-32480

YAKHIN, A. M.
New types of transient processes observed in electromagnetic sounding 18 p2860 N84-28164

YAKIMENKO, M. A.
Effects of adaptation to hot climate on thermoreception 18 p2896 N84-28375
Criteria of human cold adaptation
18 p2897 N84-28381

YAKIMETS, I. V.
Transformers with voltage regulation for electric supply networks 17 p2639 N84-26881

YAKOVLEV, A. A.
Criteria for efficiency of experiments in remote sensing
19 p2978 N84-28876

YAKOVLEV, I. A.
Impact of laser radiation on optical properties of polymer liquid crystal in phase transition range
20 p3286 N84-30868

YAKOVLEV, K. I.
Reinforcing materials based on magnesium oxide
12 p1783 N84-21637

YAKOVLEV, N. L.
Polarization of paraexciton luminescence in Cu2O crystals in magnetic field 20 p3287 N84-30870

YAKOVLEV, O. I.
Roughness of surface of Venus from bistatic radar data 19 p2975 N84-28857

YAKOVLEV, V. A.
Precision photometer for measurement of low levels of maximum power of pulses laser radiation
17 p2638 N84-26873
Investigation of plane phased array of piezoelectric transducers with one-lobe directivity diagram
17 p2639 N84-26883

YAKOVLEV, V. B.
Anodic electrochemical processing of amorphous alloys 24 p3870 N84-34527
Corrosion protective properties of coatings obtained by hydraulic pulse compacting of aluminum powder
24 p3875 N84-34553

YAKOVLEV, V. V.
Phase light range finder 21 p3380 N84-31447

YALAMANCHILI, R.
A finite difference method for any partial differential equation
[AD-P002959] 14 p2200 N84-24199

YAMADA, A.
Critical heat flux in forced convection boiling of Freon in a tube at high subcritical pressure: In the case of vapor-liquid mixture at inlet 07 p0984 N84-16373

YAMADA, H.
Measurements of microwave backscattering signatures of the ocean surface using X-band and Ka-band airborne scatterometer/radiometer system
23 p3771 N84-33907

YAMADA, R.
Stream-water storage in the ocean using an impermeable membrane
[PB83-248369] 04 p0517 N84-13394

YAMADA, T.
A method of economical gear finishing of surface hardened gears 07 p0983 N84-16370
Rush field experiments: Growth and initial decay of the mixed layer over an autumn landscape
[DE84-001671] 07 p1040 N84-16743
Synfuel modified diesel
[DE84-002189] 10 p1502 N84-19819

YAMADA, Y.
Dense plasma focus research at the Institute of Laser Engineering, Osaka (Japan) 10 p1581 N84-20360
Adhesion between polymers and evaporated gold and nickel films
[NASA-TP-2360] 21 p3369 N84-31379
Radiation measurement of snowy season in 1982-1983 at Sapporo 23 p3762 N84-33845

YAMAGISHI, F. G.
Plasma polymerized high energy density dielectric films for capacitors
[NASA-CR-168233] 04 p0505 N84-13310

YAMAGUCHI, K.
An enhanced Oct-tree data structure and operations for solid modeling 12 p1874 N84-22214
Convective heat transfer inside passive solar buildings
16 p2517 N84-26154

YAMAGUCHI, M.
Development of composite fiber-optic electric-power umbilical cable and optical feedthrough for deep ocean mining 11 p1722 N84-21231

YAMAGUCHI, N.
Bibliography on atomic processes in hot dense plasmas
[IPPJ-AM-29] 03 p0443 N84-12913

YAMAGUCHI, W.
Dynamic property studies of Sterling engines
[NASA-TM-77719] 19 p3031 N84-29225

YAMAGUCHI, Y.
Multiple buoyancy driven flows in a vertical cylinder heated from below
[NASA-CR-173626] 17 p2666 N84-27001

YAMAKI, Y. R.
Development of improved coating for advanced carbon-carbon components
[NASA-CR-173248] 07 p0967 N84-16265

YAMAMOTO, H.
Design and test results of optical fiber units for optical submarine cable 11 p1723 N84-21243

YAMAMOTO, K.
Bibliography on atomic processes in hot dense plasmas
[IPPJ-AM-29] 03 p0443 N84-12913
Experimental investigation of shock-cell noise reduction for dual-stream nozzles in simulated flight comprehensive data report. Volume 1: Test nozzles and acoustic data
[NASA-CR-168336-VOL-1] 14 p2220 N84-24323
Experimental investigation of shock-cell noise reduction for dual-stream nozzles in simulated flight comprehensive data report. Volume 2: Laser velocimeter data, static pressures and shadowgraph photos
[NASA-CR-168336-VOL-2] 14 p2220 N84-24324
Experimental investigation of shock-cell noise reduction for single-stream nozzles in simulated flight, comprehensive data report. Volume 1: Test nozzles and acoustic data
[NASA-CR-168234-VOL-1] 22 p3652 N84-33148
Experimental investigation of shock-cell noise reduction for single-stream nozzles in simulated flight, comprehensive data report. Volume 2: Laser velocimeter data
[NASA-CR-168234-VOL-2] 22 p3652 N84-33149
Experimental investigation of shock-cell noise reduction for single-stream nozzles in simulated flight, comprehensive data report. Volume 3: Shadowgraph photos and facility description
[NASA-CR-168234-VOL-3] 22 p3652 N84-33150

YAMAMOTO, M.
Gas-particle mixture flows in a spinning solid rocket motor
[ISAS-607] 07 p0965 N84-16252

YAMAMOTO, S.
ONR Far East Scientific Bulletin. Volume 6, no. 3, July - September 1983
[AD-A134272] 08 p1240 N84-18109
ONR (Office of Naval Research) Far East Scientific Bulletin. Volume 9, Number 1, January to March 1984
[AD-A140826] 17 p2770 N84-27589

YAMAMOTO, T.
Macroscopic plasma behavior and charged particle acceleration in the plasma focus
10 p1581 N84-20363
An experimental system of FM data-broadcasting
[NHK-SERIAL-293] 15 p2319 N84-24919

YAMAMOTO, Y.
Dense plasma focus research at the Institute of Laser Engineering, Osaka (Japan) 10 p1581 N84-20360
Generation of ternary majority functions of four or less variables
[AD-P002337] 14 p2190 N84-24128
Optics and quantum electronics
22 p3682 N84-33343

YAMAMURA, Y.
Energy dependence of the yields of ion-induced sputtering of monatomic solids
[IPPJ-AM-32] 07 p1076 N84-16992

YAMANA, T.
Building systems and smoke control
04 p0511 N84-13347
On smoke control experiments
04 p0514 N84-13379

YAMANAKA, C.
Dense plasma focus research at the Institute of Laser Engineering, Osaka (Japan) 10 p1581 N84-20360

YAMANAKA, K.
Finite-element-analysis of fields radiated from ICRF antenna
[IPPJ-675] 20 p3301 N84-30965

YAMANAKA, M.
Dense plasma focus research at the Institute of Laser Engineering, Osaka (Japan) 10 p1581 N84-20360

YAMANAKA, T.
Optimal low-thrust interplanetary orbit transfer including Earth escape spiral trajectory
[NAL-TR-778T] 09 p1266 N84-18264

YAMANE, H.
An experimental system of FM data-broadcasting
[NHK-SERIAL-293] 15 p2319 N84-24919

YAMANE, T.
Technique for manufacturing nickel electrodes
[NASA-TM-77239] 11 p1632 N84-20671

YAMANI, A.
The information network for a real-time controlled data acquisition of the Modular Optoelectronic Multispectral Scanner (MOMS) 23 p3765 N84-33863

YAMANOTO, R.
Experimental evaluation of a high frequency radio data terminal in the ship-shore mode
[CRC-1375] 21 p3382 N84-31458

YAMANOUCHI, K.
Surface acoustic wave resonators in layered substrates with large electromechanical coupling coefficient
13 p2039 N84-23230

YAMASAKI, H.
Ka-band GaAs FET noise receiver/device development
[NASA-CR-175176] 10 p1484 N84-19705

YAMASHITA, K.
Non-metallic optical cable with optical fiber catenary for long span aerial application 11 p1722 N84-21235

YAMASHITA, S.
Functions of uniformly bounded characteristic
04 p0577 N84-13802

YAMASHITA, Y.
Development of automatic measuring system for image pickup tubes
[NHK-LN-295] 15 p2335 N84-25014

YAMAUCHI, G.
Development and application of an analysis of axisymmetric body effects on helicopter rotor aerodynamics using modified slender body theory
[NASA-TM-85834] 21 p3324 N84-31090

YAMAUCHI, R. K.
Design of a safety monitor system for high explosives machining
[DE84-010101] 20 p3168 N84-30113

YAMAZAKI, H.
Technique for manufacturing nickel electrodes
[NASA-TM-77239] 11 p1632 N84-20671

YAMAZAKI, K.
Dissipation of magnetic energy during disruptive current termination
[IPPJ-644] 06 p0919 N84-15973
Visible-light imaging MHD studies of the edge plasma in the JIPP-T-IIU Tokamak
[IPPJ-683] 23 p3827 N84-34272
Abnormal energy deposition on the wall through plasma disruptions
[IPPJ-684] 23 p3827 N84-34273

YAMAZAKI, S.
Perceived C/U ratio measuring equipment for TV ghost images
[NHK-LABS-NOTE-300] 19 p3003 N84-29036
An experimental study of helical guide-type rotating heat pipe 20 p3169 N84-30123

YAMAZAKI, T.
A new operation method for a large-scale shock tunnel
[NAL-TR-765] 04 p0487 N84-13200
Instrumentation techniques for aerodynamic heating measurement in NAL hypersonic gun tunnel
[NAL-TR-780] 09 p1258 N84-18213
An experimental study on the induced rolling moment due to wing-tail interference and roll-controllable two-stage rocket
[NAL-TR-793] 12 p1777 N84-21599

YAMAZAKI, Y.
A numerical model for studying some coastal circulation
[INPE-2904-RPE/444] 17 p2737 N84-27386

A scientific visit to the Institute of Polar Study of Japan
[INPE-3161-NTE/221] 23 p3801 N84-34097

YAMIN, P.
Status of P714 - LAPDOG
[DE83-013613] 01 p0164 N84-11079

YAMOTO, K.
Synthesis method for ternary logic function based on NAND-type polypheck
[AD-P002348] 14 p2192 N84-24139

YAMSHCHIKOV, V. S.
Emission effects of memory in rocks
17 p2705 N84-27227

YAN, M.
Acta aeronautica et astronautica sinica (selected articles
[AD-A136531] 12 p1764 N84-21506
Journal of aeronautical materials (selected articles)
[AD-A140167] 16 p2434 N84-25610

YAN, T.
Nationwide computer users' information retrieval system 01 p0118 N84-10767

YANAGAWA, K.
A study of liquid hydrogen cooled LO2/LH2 rocket combustor with channel wall construction
[NAL-TR-767] 16 p2459 N84-25763

YANAGISAWA, M.
Derivation of crustal magnetic anomalies from MAGSAT
[REPT-609] 20 p3240 N84-30569

YANAGITA, M.
Synthesis method for ternary logic function based on NAND-type polypheck
[AD-P002348] 14 p2192 N84-24139

YANASSE, H. H.
Error measurement of a deterministic approximation for stochastic production planning problem
[INPE-2768-PRE/341] 09 p1381 N84-19017
An inventory planning system
[INPE-2766-PRE/339] 10 p1591 N84-20423
Worst case performance of some heuristics for lot size problems
[INPE-3134-PRE/525] 23 p3817 N84-34205
A heuristic method for the problem of the distribution of perishable cargos
[INPE-3133-PRE/524] 23 p3832 N84-34309
Hierarchical planning systems applied to production: A study
[INPE-3147-PRE/531] 23 p3833 N84-34314

YANCEY, C. W. C.
Materials research activities at the National Bureau of Standards (1975-1982) pertaining to active solar heating and cooling systems
[PB84-154780] 17 p2723 N84-27332

YANENKO, N. N.
Formation of coherent structures by acoustical effects in a turbulent wake 21 p3480 N84-32055

YANEY, P. P.
Laser diagnostic development and measurement and modeling of turbulent flowfields of jets and wakes. Part 3: The development of a 2-channel CW Time-Resolves Laser Raman Spectroscopy (TiLaRS) system for measurements in gas flowfields
[AD-A134693] 08 p1159 N84-17544

YANG, C.
Cost and performance analysis of visual and sensor simulation systems using Defense Mapping Agency data bases
[AD-A135955] 09 p1259 N84-18220
Metal oxide anodes for the photoelectrochemical generation of oxygen
[DE84-004168] 10 p1456 N84-19511

YANG, C. T.
An assumed deviatoric stress-velocity-pressure mixed finite element method for unsteady convective, incompressible viscous flow 06 p0833 N84-15420

YANG, D. C.
Large-signal characterization of nonlinear two-port active networks
[AD-A142462] 20 p3178 N84-30184

YANG, D. L.
Nd-3+ Beta prime prime alumina platelet laser
[AD-A142797] 21 p3409 N84-31621

YANG, F. C. T.
High-temperature corrosion of iron and iron-based alloys in sulfur-containing atmospheres
[DE83-013843] 01 p0045 N84-10290

YANG, H. C.
Magnetic impurity scattering in in situ superconductors
[DE84-012835] 21 p3505 N84-32212

YANG, H. M.
Bayes-p* subset selection procedures for the best population
[AD-A140179] 16 p2551 N84-26367

YANG, J. C. S.
Measurement of structural damping using the random decrement technique 10 p1514 N84-19915

YANG, J. N.
Statistics of crack growth of a superalloy under sustained load
[AD-A130395] 01 p0095 N84-10616
Improving NDE (Non-destructive evaluation) capability through multiple inspection with application to gas turbine engine disks
[AD-A131762] 03 p0385 N84-12509
Statistics of crack growth in engine materials. Volume 2: Spectrum loading and advanced techniques
[AD-A140920] 17 p2680 N84-27072
Durability methods development, volume 7
[AD-A142400] 20 p3128 N84-29865
USAF durability design handbook: Guidelines for the analysis and design of durable aircraft structures
[AD-A142424] 20 p3128 N84-29866

YANG, J. Y.
Second- and third-order upwind difference schemes for hyperbolic conservation laws
[NASA-TM-85959] 22 p3644 N84-33106

YANG, L.
Chemical vapor deposition of oriented tungsten foils for thermionic cathodes
[AD-A132379] 04 p0612 N84-14040

YANG, L. C.
Apparatus and method for destructive removal of particles contained in flowing fluid
[NASA-CASE-NPO-15426-1] 08 p1161 N84-17555
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA-CASE-NPO-15494-2] 13 p1993 N84-22935

YANG, R.
Coupling between 2 arbitrarily oriented dipoles through multilayered shields
[AD-A137129] 10 p1478 N84-19660

YANG, S.
Properties of aerosols during a dust storm over the Beijing area
[AD-A136521] 09 p1344 N84-18783

YANG, T. C.
A study of reduced dependence in multi-valued sequential machines
[AD-P002326] 14 p2189 N84-24117
Roles of ionizing radiation in cell transformation
[DE84-013397] 22 p3629 N84-32995

YANG, V.
Linear theory of pressure oscillations in liquid fueled Ramjet engines
[AD-A130882] 01 p0011 N84-10071
Linear theory of pressure oscillations in liquid-fueled ramjet engines
[AD-A131610] 01 p0012 N84-10075
Numerical analysis of an unsteady shock in an inlet diffuser 13 p1951 N84-22686

YANIV, E.
Effect of surface doping on the oxidation of chromia former alloys
[DE84-013390] 22 p3667 N84-33247

YANIV, G.
Durability of structural adhesively bonded systems
[AD-A140714] 17 p2626 N84-26805

YANIV, R.
Thermal properties of coating materials and their effect on the efficiency of coated cutting tools
09 p1292 N84-18440

YANIV, S.
The coupling of tracked and interior waves in a front tracking scheme
[AD-P002944] 14 p2197 N84-24184

YANNIAN, H.
Weightlessness and management of liquid rocket propellant
[AD-A132516] 04 p0509 N84-13334

YANNONI, C. S.
The mechanism of Ziegler-Natta polymerization of acetylene: A nutation NMR study
[AD-A137089] 10 p1468 N84-19588

YANO, H.
Computerized art plotting system. Volume 1: Horizontal bar charts (second edition)
[DE83-018113] 04 p0582 N84-13839

YANSON, Y. L.
The mechanoluminescence of fibreglass tubes in the plane stressed state
[DRIC-T-7014] 09 p1328 N84-18673

YAO, C. L.
Atmospheric correction studies/processing image no. I-100
[INPE-2870-RPE/442] 02 p0239 N84-11568

YAO, J. C.
Plastic behavior of 304 stainless steel under plastic-strain controlled loading conditions
17 p2677 N84-27051

YAO, N. P.
Preliminary study of the electrolysis of aluminum sulfide in molten salts
[DE83-014552] 01 p0038 N84-10242
Diffusion mass transfer of KOH through Ni/Zn battery membrane separators
[DE83-014551] 03 p0367 N84-12387
Charge characteristics of Ni/Fe traction cells
[DE83-014205] 03 p0367 N84-12389
Comparative response of lead-acid and nickel-iron batteries to pulsed and constant-current loads
[DE83-017939] 03 p0368 N84-12395
Ragone characteristics of aqueous mobile batteries and their application in projecting ranges of electric vehicles
[DE83-014701] 03 p0404 N84-12642
Application features and considerations in advanced lead-acid and nickel/iron EV batteries
[DE83-017936] 04 p0528 N84-13472
Impact of monoblock design and battery packaging on temperature excursion of nickel/iron batteries
[DE84-006444] 12 p1813 N84-21821
Testing and evaluation of EV-1300 lead-acid modules for the hybrid vehicle application
[DE84-006718] 14 p2249 N84-24510
Use of the Li-Al/FeS battery in advanced vehicle propulsion systems
[DE84-007275] 15 p2421 N84-25538
Effects of standtime on the available capacity of lead-acid and nickel/iron electric vehicle batteries
[DE84-013452] 22 p3587 N84-32721
Thermal management of a lithium/iron-sulfide battery
[DE84-013438] 22 p3587 N84-32722
Recent results from the National Battery Test Laboratory
[DE84-012110] 22 p3588 N84-32729

YAO, S.
Preliminary evaluation of Thematic Mapper image data quality 20 p3214 N84-30415

YAO, S. C.
Vaporization of synthetic fuels
[DE84-006556] 12 p1803 N84-21755
Ignition and flame propagation in sprays
[AD-A143773] 23 p3713 N84-33538

YAO, S. S.
Investigation of TM band-to-band registration using the JSC registration processor 20 p3211 N84-30398

YAO, Y. C.
Nyquist frequency
[AD-A135023] 08 p1144 N84-17440
Noise
[AD-A135066] 08 p1222 N84-17983

YARBROUGH, D. W.
Apparent thermal conductivity measurements by an unguarded technique
[DE84-001964] 05 p0685 N84-14503
Development of advanced thermal insulation for appliances
[DE84-013132] 22 p3594 N84-32763

YAREMA, S. Y.
Fatigue crack growth in vacuum and in gaseous media
24 p3870 N84-34529

YAREMCHENKO, N. Y.
Modern methods of studying initial stage of fatigue fracture in metals 24 p3871 N84-34531

YARISH, C.
Salinity and temperature effects on photosynthesis and organic carbon release rates by selected benthic macroalgae
[PB84-163146] 20 p3257 N84-30674

YARIV, A.
Bistable injection lasers 14 p2241 N84-24455

YAROS, S. F.
Theoretical and experimental engine-inlet flow fields for fighter forebodies
[NASA-TP-2270] 08 p1097 N84-17132

YAROSH, M.
Performance monitoring of active solar energy systems
[DE84-000027] 12 p1844 N84-22022

YAROSLAVSKIY, G. Y.
Influence of aging in martensite state on mechanical properties of Cu-Al-Zn system Beta-alloy
12 p1784 N84-21641

YAROSLAVTSEV, M. I.
Gasdynamic study of model with combustion in shock tunnel 21 p3481 N84-32061

YAROV, A. S.
G suit of bladderless type as a means of improving orthostatic stability after water immersion hypokinesia nd exposure to accelerations 07 p1045 N84-16775

YAROVAYA, R. M.
Functional status of operators and its systemic and technical determinants 18 p2895 N84-28369

YARTSEV, P. M.
Dynamics of functional status and subjective sensations in process of heat adaptation 21 p3456 N84-31931

YASTREBOV, L. I.
Different sensitivity of s- and d-electron energy levels to a change in lattice parameters in transition metals
[BLL-M-35116-(5828.4)] 01 p0151 N84-10996
YASUHARA, M.
Rotational temperature measurements in free jet expansions of N2 using the electron beam fluorescence technique 07 p0984 N84-16376
YASUKAWA, E.
2nd Joint Solar Dynamics Project data summary: Solar magnetic field, chromospheric and coronal observations near the time of the 11 June 1983 solar eclipse
[NASA-CR-173340] 09 p1417 N84-19272
Summary of solar activity observed in the Mauna Loa Solar Observatory, 1980 - 1983
[PB84-137587] 11 p1760 N84-21484
White light solar corona: An atlas of 1983 K-coronameter synoptic charts
[PB84-184159] 20 p3320 N84-31075
YASUKOCHI, K.
An application of gap regenerator/expander precooled by two stage G-M refrigerator 06 p0819 N84-15337
Compact Claude cycle refrigerator for laboratory use 06 p0819 N84-15338
YATEMA, J. L.
Search for doubly-charged negative ions via accelerator mass spectrometry
[DE83-014321] 01 p0038 N84-10243
YATER, J.
Control of respirable particles and radon progeny with portable air cleaners
[DE84-013878] 23 p3812 N84-34170
YATES, G. J.
Using photoconductivity to improve image-tube gating speeds
[DE84-001732] 05 p0676 N84-14443
Nanosecond image-shuttering studies at Los Alamos National Laboratory
[DE84-001733] 06 p0830 N84-15405
YATES, G. K.
Active experiments and single ion motion in the magnetotail 05 p0641 N84-14219
YATES, J. T., JR.
Electron spectroscopy study of SiC
[AD-A134352] 07 p1080 N84-17023
YATES, K.
Development of partially fluorinated resin apex seals
[NASA-CR-174706] 22 p3603 N84-32828
YATES, M. A.
Roll-trusion (RT*) of composite structures
[AD-A140838] 17 p2618 N84-26757
YATSKEVICH, G. M.
Influence of stratospheric aerosols forming during combustion of rocket fuels on Earth's albedo 11 p1670 N84-20899
YATSUI, K.
Proceedings of Collaborating Research Meeting on Particle-Beam Applications to Fusion Research
[IPPJ-678] 21 p3500 N84-32184
YATSUYANAGI, N.
An experimental and analytical study on spray flow field by liquid/gas coaxial injector elements. 3: Application for the combustion performance prediction model of LO2/LH2 rocket combustion
[NAL-TR-769] 09 p1274 N84-18317
An experimental and analytical study of spray flow fields formed by liquid/gas coaxial injector elements
[NAL-TR-745] 15 p2331 N84-24997
A study of liquid hydrogen cooled LO2/LH2 rocket combustor with channel wall construction
[NAL-TR-767] 16 p2459 N84-25763
YATTEAU, J. H.
Some issues related to evolution of planetary atmospheres 06 p0939 N84-16103
YAU, A. W.
Project Waterhole III 05 p0640 N84-14210
Sequential barium releases to study tangential versus rotational discontinuities in auroral arcs 05 p0640 N84-14215
YAU, S. S.
Methodology for software maintenance
[AD-A143763] 23 p3815 N84-34192
YAU, W. F.
Probabilistic assessment of weld quality in steel piping under seismic conditions
[DE83-012053] 01 p0091 N84-10591
YAU, Y. W.
Generation and application of finely focused low energy electron beams 21 p3492 N84-32129
YAUGER, W. L., JR.
Comprehensive assessment of the specific compounds present in combustion processes. Volume 1: Pilot study of combustion emissions variability
[PB84-140870] 11 p1630 N84-20665
YAUNG, J. Y.
Solar cell degradation in proton radiation orbits 19 p3045 N84-29315
Model of solar cell proton damage 19 p3045 N84-29316
YAVIN, Y.
Strategies using an observer for steering a random motion of a point in a multitarget environment
[CSIR-TWISK-285] 07 p1049 N84-16794
The numerical solution of three stochastic differential games
[CSIR-TWISK-292] 11 p1718 N84-21205
YAVROUIAN, A. H.
Antimisting kerosene: Base fuel effects, blending and quality control techniques
[NASA-CR-174509] 07 p0980 N84-16351
YAW, R. H.
Meteorological and climatological approach in determining snowpack accumulation at snow course sites in a Montana watershed
[PB83-226852] 01 p0110 N84-10714
YE, Z.
Structural analysis of air outflow from low layers of intense thundercloud
[AD-A136500] 09 p1348 N84-18810
YEAGER, D. M.
Study in spurious sensitivity of electronics
[AD-A143947] 23 p3742 N84-33719
YEAGER, E.
Electrochemical studies of redox systems for energy storage
[NASA-CR-174503] 06 p0873 N84-15681
Bifunctional oxygen electrodes
[DE84-002774] 07 p0972 N84-16296
YEAGER, E. B.
Compressibility of colloids. 2: Compressibility studies of tri-block non-ionic polymers in toluene and water solutions
[AD-A138738] 13 p1963 N84-22755
Structure of silver (100) and (111) single-crystal surfaces obtained by chemical polishing
[AD-A140148] 16 p2560 N84-26424
YEAGER, W. T., JR.
Parametric tip effects for conformable rotor applications
[NASA-TM-85682] 01 p0094 N84-10609
Aeromechanical stability of a hingeless rotor in hover and forward flight: Analysis and wind tunnel tests
[NASA-TM-85683] 01 p0094 N84-10610
YEARIAN, M. R.
The Mark 3 linac as a high current source for FEL (Free Electron Lasers) experiments
[AD-A136312] 09 p1320 N84-18625
YEARICK, R. L.
Expanding the permanent file directory on the CDC (Control Data Corporation) NOS/BE (Network Operating System/Batch Environment) operating systems
[AD-A140005] 15 p2418 N84-25519
YECHOUT, R. T.
Experimental aerodynamic characteristics of missiles with square cross sections
[AD-A132278] 04 p0489 N84-13215
YECHOUT, T. R.
Development and evaluation of a performance modeling flight test approach based on quasi steady-state maneuvers
[NASA-CR-170414] 18 p2793 N84-27724
YEDAVALLI, R. K.
Time domain analysis and synthesis of robust controllers for large scale LQG (Linear Quadratic Gaussian) regulators
[AD-A137760] 11 p1713 N84-21172
YEE, B. G. W.
Use of small crack data to bring about and quantify improvements to aircraft structural integrity
[AD-A135012] 08 p1170 N84-17623
YEE, C. M. L.
Impurity and defect interactions in GaAs
[AD-A139592] 14 p2243 N84-24465
YEE, D.
Experiences in teaching Ada (trademark)
[AD-P003419] 20 p3270 N84-30751
YEE, J. H.
Modeling and testing for second breakdown phenomena
[DE84-002470] 07 p0994 N84-16444
Dynamic characteristic of intense short microwave propagation in an atmosphere
[DE84-002788] 21 p3387 N84-31496
YEE, R. Y.
Interfacial interaction and adhesion in composite materials 20 p3144 N84-29961
YEFANOV, V. A.
Three-element radiointerferometer with very long baselines 19 p2974 N84-28853
YEFIMOV, N. S.
Procedure for calculation of stages with operational direct-current amplifiers 17 p2634 N84-26853
YEFIMOV, V. I.
Shielding part of bone marrow as a method of local protection against cosmic radiation 07 p1044 N84-16771
YEFIMOV, V. V.
Shelf waves in presence of currents and stability of boundary currents 17 p2699 N84-27193
Quasibiennial cycle of thermodynamic atmosphere-ocean interaction in North Atlantic 17 p2700 N84-27196
YEFIMOV, Y. V.
Constitution diagram of system vanadium - copper
[AD-A135516] 08 p1132 N84-17361
YEFIMTSOV, B. M.
Similarity criteria for spectra of pressure fluctuations in turbulent boundary layer at wall 21 p3480 N84-32059
YEGOROV, A. D.
Study of cardiovascular system during long-term spaceflights 02 p0259 N84-11694
Main results of medical studies on Salyut-6--Soyuz program 15 p2375 N84-25249
YEGOROV, B. B.
Contributions of space medicine to medical research 14 p2251 N84-24517
YEGOROV, N. I.
Instability of collapsing cylindrical shell during magnetic energy density 20 p3287 N84-30872
YEGOROV, Y. A.
Large-signal amplifier based on ferrimagnetic echo 21 p3378 N84-31440
YEGOSHKINA, L. A.
Form coefficient for the field of a superconducting synchronous machine
[AD-A134751] 08 p1226 N84-18010
YEH, A.
PLY: A system of plausibility inference with a probabilistic basis
[AD-A132537] 04 p0588 N84-13889
YEH, C.
Finite-element approach to guided wave problems
[AD-A131623] 02 p0213 N84-11396
YEH, C. S.
A parallel VLSI architecture for a digital filter using a number theoretic transform 09 p1400 N84-19141
YEH, E. N.
Prediction of atmospheric flow and dispersion over sloping terrain 13 p2012 N84-23056
YEH, F. C.
Review and status of heat-transfer technology for internal passages of air-cooled turbine blades
[NASA-TP-2232] 12 p1814 N84-21828
YEH, G. T.
Solution of groundwater-flow equations using an orthogonal finite-element scheme
[DE84-000690] 04 p0554 N84-13648
YEH, H. C.
Consolidation of Si3N4 without additives (by hot isostatic pressing)
[NASA-CR-173279] 08 p1136 N84-17389
YEH, H. H.
Design and robustness analysis of reduced order controllers for large flexible space vehicles 15 p2269 N84-24623
YEH, K.
T-motor tests with cylindrical grains
[AD-A143814] 24 p3866 N84-34503
YEH, K. C.
The effect of turbulent atmosphere on backscattered waves 06 p0870 N84-15664
YEH, P. C. C.
Research in adaptive beamforming for satellite communications
[AD-A133733] 05 p0668 N84-14396
YEH, R. T.
Formal specification and verification of distributed system
[AD-A139305] 14 p2203 N84-24220
YEH, Y. C. M.
Process in manufacturing high efficiency AlGaAs/GaAs solar cells by MO-CVD 19 p3044 N84-29311
YELAGIN, V. I.
Structure and properties of granulated aluminum alloys containing transition metals 24 p3872 N84-34535
YELFIMOV, A. I.
Exchange of gases and physical work capacity in natives of different geographic regions 20 p3254 N84-30656
YELISTRATOVA, Y. K.
Structural-geomorphological interpretation of lineaments detected from space photographs and patterns of mineral distribution 19 p2977 N84-28871

YELTON, R. O.
Characterization of glass-filled engineering thermoplastic composites
[DE84-000361] 04 p0492 N84-13231
Characterization of polyetheretherketone and other engineering thermoplastics
[DE84-010668] 23 p3725 N84-33603
YELTON, W. G.
Control of precious-metal plating baths using electrogravimetric analysis
[DE83-016772] 02 p0196 N84-11276
YELYUTIN, A. V.
The cathode material for a plasma-arc heater
[BLL-OA-TRANS-3126-(6196.3)] 08 p1232 N84-18053
Assurance of unity of tests of semiconductor products 17 p2637 N84-26868
YEMELYANOV, V. B.
Forging and stamping nonferrous metals. Handbook
[AD-A141689] 21 p3366 N84-31351
YEN, C. T.
Long-term creep of copper at cryogenic temperatures 23 p3716 N84-33559
YEN, H. W.
Multiwavelength bidirectional coupler-decouplers
[AD-A132908] 05 p0747 N84-14907
Definition, analysis and development of an optical data distribution network for integrated avionics and control systems. Part 2: Component development and system integration
[NASA-CR-172429] 22 p3657 N84-33181
YEN, J. H.
Variance-stable R-estimators
[AD-A143172] 21 p3475 N84-32024
YEN, T. P.
The geologic and geophysical study of the Hengchung Peninsula, southern Taiwan, 1 24 p3957 N84-35052
YEN, W. M.
Optical studies of dynamical process in disordered materials
[DE84-002048] 07 p1083 N84-17042
YEN, Y. C.
Aerosol growth in a cold environment
[AD-A139907] 15 p2287 N84-24720
YENER, M.
Vehicle-structure interactions in bridge dynamics 10 p1506 N84-19853
YEREMENKO, B. V.
Stability and electrokinetic potential of silicon carbide suspensions in aqueous organic media
[NASA-TM-77428] 10 p1454 N84-19494
YEREMEYEV, V. N.
Influence of wind on rate of gas exchange through ocean-atmosphere interface 17 p2699 N84-27190
Evaluating parameters of vertical exchange of ocean waters by radioisotopic methods 18 p2858 N84-28146
YEREMEYEVA, L. V.
Fractionation of chemical elements at ocean-atmosphere interface 17 p2698 N84-27189
YERMAK, Y. N.
Hypersonic flow of viscous gas on surface of blunt cone with strong blow-in in blunted region 21 p3481 N84-32063
YERMAS, J. P.
ECM (Electronic Counter Measure) signal discrimination and identification techniques
[AD-A133427] 06 p0824 N84-15372
YERMOLAYEVA, Y. M.
Thermal characteristics of plasma reactors with cylindrical and conical multijet mixing chambers 13 p1970 N84-22788
YEROKHIN, A. A.
Heating and implosion of spherical targets irradiated by laser 20 p3288 N84-30679
YEROSHENKO, V. M.
Turbulent boundary layer at plate with suction at various angles 17 p2648 N84-26938
YEROSHENKO, Y. G.
The magnetic field experiment for the Venus-Halley (VEGA) mission
[IWF-8301] 17 p2777 N84-27633
YEROSHIN, V. A.
Immersion of disk in compressible fluid at angle to free surface 17 p2647 N84-26930
YERUKHIMOV, L. M.
Spectrum of phase fluctuations during probing of ionosphere 18 p2822 N84-27916
YESIKOV, Y. I.
The effect of pulse current on the electrical strength of high-voltage modulator tubes
[AD-A136489] 09 p1307 N84-18544
YESILOVA, T. V.
Gene mutations, chromosome aberrations and survivability after X-ray irradiation of Chinese hamster cell culture under conditions of cysteamine protection 17 p2743 N84-27413
YETTER, J. A.
Inlet flow field investigation. Part 1: Transonic flow field survey
[NASA-CR-172239] 06 p0782 N84-15123
YEUN, J. Y.
Computer simulated development of a command to Line-of-Sight missile using on-off control
[AD-A140041] 15 p2280 N84-24697
YEUNG, E. S.
Ultrasensitive optical rotation and refractive-index measurements
[DE83-018078] 03 p0442 N84-12903
YEUNG, P. H. J.
Development of high modulus polydiacetylene fibres for use in fibre-reinforced composites
[AD-A140912] 17 p2627 N84-26809
YEVCHENKO, V. N.
Propagation of gas jet in liquid 21 p3480 N84-32057
YEVGRAFYEV, V. P.
Adrenal-hypothalamus-pituitary system reactions in rats cooled in a hypoxic-hypercapnic gas atmosphere 20 p3254 N84-30655
YEVLAMPIYEVA, M. N.
Effects of long-term exposure to low positive temperatures on cold-induced vasodilation 18 p2896 N84-28371
YEVTUSHENKO, A. S.
Introduction of productive welding and surfacing technological processes to production of nuclear powerplant equipment 12 p1787 N84-21655
YEZDIN, B. S.
Motion of vortex pair between parallel walls 21 p3486 N84-32092
YI-CHENG, Z.
Staggered fermions and rotation-gauge invariance
[PREPRINT-357] 20 p3297 N84-30937
Some negative results for avoiding lattice fermionic doubling
[PREPRINT-358] 20 p3297 N84-30938
YIANNESKIS, M.
Developing flow in S-shaped ducts. 2: Circular cross-section duct
[NASA-CR-3759] 09 p1312 N84-18572
YIE, G. G.
Rapid runway repair program subtask 1.07 - rapid concrete cutting
[AD-A131771] 03 p0338 N84-12195
YIH, T. S.
Study of metal-insulator transition 24 p3955 N84-35044
YIJIAN, Z.
Nationwide computer users' information retrieval system 01 p0118 N84-10767
YILGOR, I.
Siloxane modifiers for epoxy resins
[AD-A136782] 10 p1467 N84-19582
YILMAZ, U. M.
A GaAs refractometer for tropospheric studies 15 p2324 N84-24952
YIN, L. I.
Real-time 3-D X-ray and gamma-ray viewer
[NASA-CASE-GSC-12640-1] 02 p0293 N84-11920
YIN, N. H.
Interplanetary mission design handbook. Volume 1, part 1: Earth to Venus ballistic mission opportunities, 1991-2005
[NASA-CR-173736] 18 p2801 N84-27779
YIN, W.
Transactions of the Chinese Solar Energy Society (selected articles)
[AD-A131870] 03 p0403 N84-12637
YIN, Y.
Journal of aeronautical materials (selected articles)
[AD-A140167] 16 p2434 N84-25610
YIN, Y. Q.
Limit theorems for the eigenvalues of product of two random matrices
[AD-A131682] 03 p0425 N84-12787
YING, R. S.
V-band IMPATT transmitter
[NASA-CR-175249] 18 p2832 N84-27976
YING, S. C.
Resistivity of a 2-D electron gas under strong magnetic field using a memory function formulation
[INPE-3118-PRE/513] 16 p2558 N84-26407
YING, Y.
Polymerizations of acetylenes and cyclic olefins induced by metal-carbynes
[AD-A137090] 10 p1468 N84-19589
YINSHENG, N.
Journal of the Chinese Society of Astronautics (selected articles)
[AD-A131032] 02 p0183 N84-11191
YIP, L. P.
Wind-tunnel investigation of an advanced general aviation canard configuration
[NASA-TM-85760] 12 p1769 N84-21539
Natural laminar flow experiments on modern airplane surfaces
[NASA-TP-2256] 17 p2599 N84-26660
YIP, T. W. G.
Flame acceleration mechanisms under conditions of partial confinement
[PB83-244012] 03 p0358 N84-12328
YIPING, G.
Iron and steel (selected articles)
[AD-A135576] 09 p1282 N84-18376
YIREN, Y.
Journal on Numerical Methods and Computer Applications (selected articles)
[AD-A134752] 08 p1220 N84-17967
YNAG, T. Y.
Transonic calculation of airfoil stability and response with active controls
[NASA-TM-85770] 12 p1765 N84-21513
YOCHMOWITZ, M. G.
Delayed effects of proton irradiation in Macaca mulatta. 3: Glucose intolerance
[AD-A142289] 20 p3256 N84-30669
YODER, J.
Analyses on the low voltage free electron laser
[AD-A143681] 23 p3754 N84-33796
YODER, J. A.
Biological processes in the water column of the South Atlantic Bight
[DE84-004336] 11 p1692 N84-21035
YOELI, M.
Design methodology for real-time distributed systems
[AD-A140886] 17 p2754 N84-27478
YOKEL, R. A.
Rabbit neurobehavioral toxicity from aluminum
[PB84-103266] 08 p1198 N84-17809
YOKLEY, J. R.
Technical report on sprayable compliant coatings
[PB84-178011] 17 p2627 N84-26810
YOKOSAWA, A.
Nucleon-nucleon interactions and polarized-beam (both proton and antiproton) facilities at LAMPF 2
[DE83-017215] 03 p0436 N84-12860
YOKOYAMA, M.
Dense plasma focus research at the Institute of Laser Engineering, Osaka (Japan) 10 p1581 N84-20360
YOKOYAMA, T.
Polycrystalline silicon sheets for solar cells by the improved spinning method 18 p2937 N84-28626
Formal solutions in a double resonant problem 19 p3118 N84-29813
YOLDAS, B. E.
Wide spectrum antireflective coating for laser fusion systems
[DE84-013211] 22 p3601 N84-32814
YOLTON, R. L.
Evaluation of factors producing visual evoked response variability
[AD-A133917] 06 p0888 N84-15772
YONAS, G.
Light ion beam fusion research at Sandia National Laboratories
[DE84-002109] 07 p1078 N84-17007
YONEHARA, T.
Submicron structures technology and research 22 p3683 N84-33353
YONEI, K.
Bibliography on atomic processes in hot dense plasmas
[IPPJ-AM-29] 03 p0443 N84-12913
YONEZAWA, H.
A 1-dimensional disk model simulation for klystron design
[DE84-013793] 22 p3588 N84-32727
YONG, Y. K.
Temperature derivatives of elastic stiffnesses and frequency-temperature behavior of quartz crystal plates 21 p3418 N84-31675
YONGKANG, Z.
Acta Aeronautica et Astronautica Sinicia (selected articles)
[AD-A137150] 11 p1599 N84-20475
YONGKUI, Z.
An evaluation of overload retardation behavior and overload retardation models of Ti-6Al-4V sheet titanium alloy
[AD-A135548] 08 p1132 N84-17362

YONGNING, Y.
Iron and steel (selected articles)
[AD-A135576] 09 p1282 N84-18376
YONUSHONIS, T. M.
Development of a 3-d microscale topography system, phase 1
[AD-A137871] 11 p1633 N84-20677
Solid lubrication design methodology
[NASA-CR-174690] 22 p3677 N84-33309
YOO, K. B.
Acoustic exploration of ocean floor properties based on the ringing of sediment layer resonances
[AD-A136245] 12 p1899 N84-22367
YOO, K. C.
Microstructural origins of hot spots in RDX explosive and several reference inert materials
[AD-A132056] 03 p0357 N84-12325
Effects of non-equilibrium solidification on the material properties of brick silicon for photovoltaics 18 p2940 N84-28648
YOO, M. H.
Sulfur and antimony segregation to creep cavity surfaces in Ni and an FCC Fe-Ni-Cr alloy
[DE84-011458] 20 p3154 N84-30028
YOO, S. J.
Phase and amplitude control system for Stanford Linear Accelerator
[DE84-011773] 21 p3496 N84-32156
YOON, S. C.
The structure of turbulent entraining flow in an annulus with a rotating screen 06 p0832 N84-15416
YOON, W. C.
Pilot interaction with automated airborne decision making systems
[NASA-CR-173782] 19 p3068 N84-29464
YOON, Y. H.
Finite analytic numerical solutions of laminar and turbulent convective heat transfer for pipe flow past a cavity 08 p1154 N84-17515
YOON, Y. S.
Microstructure, mechanical properties and two-body abrasive wear resistance of an Fe-3Cr-C based ultra-high strength steel
[DE84-014605] 22 p3556 N84-32520
YORK, G.
Software voting in asynchronous NMR (N-Modular Redundancy) computer structures
[NASA-CR-174488] 03 p0418 N84-12732
YORK, G. W.
High-repetition-rate amplification of 16 (SIGMA) micron radiation
[DE83-012782] 01 p0087 N84-10569
YORK, J. E.
Land cover and terrain mapping for the development of digital data bases for wildlife habitat assessment in the Yukon Flats National Wildlife Refuge, Alaska 14 p2166 N84-23971
YORKGITIS, E. M.
Siloxane modifiers for epoxy resins
[AD-A136782] 10 p1467 N84-19582
YORKSI, D. S.
DC-link approach to constant-frequency aircraft power 01 p0011 N84-10068
YOSHIAKI, S.
Development of low temperature cure epoxy paint for offshore steel structures in cold areas
[NRC/CNR-TT-2078] 11 p1636 N84-20694
YOSHIDA, K.
Local and global integrability of anomalous ward identities
[PREPRINT-364] 23 p3819 N84-34217
YOSHIDA, M.
US-Japan cooperative research on evaluation of toxicity 04 p0514 N84-13375
YOSHIDA, S.
Critical heat flux in forced convection boiling of Freon in a tube at high subcritical pressure: In the case of vapor-liquid mixture at inlet 07 p0984 N84-16373
YOSHIDA, Y.
The kinetic equation in an imperfect ionized plasma
[IPPJ-656] 11 p1734 N84-21308
YOSHIHARA, H.
Subsonic/Transonic Aerodynamic Interference for Aircraft: Introductory remarks 03 p0317 N84-12073
Subsonic/transonic viscous interactions 03 p0317 N84-12075
YOSHIHIRO, O.
Development of low temperature cure epoxy paint for offshore steel structures in cold areas
[NRC/CNR-TT-2078] 11 p1636 N84-20694
YOSHIKADO, S.
Measurements of microwave backscattering signatures of the ocean surface using X-band and Ka-band airborne scatterometer/radiometer system 23 p3771 N84-33907
YOSHIMURA, S.
Optimal low-thrust interplanetary orbit transfer including Earth escape spiral trajectory
[NAL-TR-778T] 09 p1266 N84-18264
YOSHIOKA, N.
Performance characteristics of VAD single mode fibers in mass production basis 11 p1725 N84-21254
YOSHIYAMA, J. M.
Quality-assurance tests of five Y-12 Kevlar-49 spools used to fabricate strands and reliability specimens for stress-rupture tests
[DE84-012373] 21 p3357 N84-31295
YOSHIZUMI, M.
Dynamically accelerated superthermal electrons in microwave plasma interaction
[IPPJ-648] 10 p1580 N84-20354
YOSIDA, Z.
Studies of the behavior of a snow cover on mountain slope. 12: Curves Csubh and Csubv in a wedge-shaped snow cover 15 p2353 N84-25115
Studies of the behavior of a snow cover on mountain slope. 13: Curves Csubh and Csubv in a circular snow cover 15 p2353 N84-25116
YOST, B. A.
Observations on the fracture of fiberous composites 15 p2311 N84-24865
YOST, D. M.
Engine wear with methanol fuel in a nitrogen-free environment
[AD-A143530] 22 p3604 N84-32833
YOST, F. G.
Microstructures of stainless steels exhibiting reduced friction and wear after implantation with Ti and C
[DE84-002252] 07 p0975 N84-16318
Friction and wear reduction of 440C stainless steel by ion implantation
[DE84-003255] 08 p1133 N84-17371
YOST, S. R.
RF front end interface and AGC modification 02 p0168 N84-11102
YOTHER, L. W.
A study of the extent of automation in small college libraries and relationships of attitudes of library directors toward it 22 p3670 N84-33260
YOUENS, L. C.
An algorithm for multiple target tracking and data correlation
[AD-A131313] 02 p0273 N84-11786
YOUGNANG, Y.
Vector expansion transformation of logic algebra
[AD-P002349] 14 p2192 N84-24140
YOUMANS, D. G.
Proof of principle experiment for a coherent CO2 waveguide laser array
[AD-A139121] 14 p2150 N84-23881
YOUMANS, R. J.
Distributed pulse forming network for magnetic modulator
[AD-D011062] 23 p3791 N84-34041
YOUNG, A.
Development of a circulating zinc-bromine battery, phase 2
[DE84-001886] 04 p0527 N84-13463
The K2-Dwarf V471 TAU: A stellar version of solar variability 17 p2779 N84-27647
YOUNG, A. D.
Introductory remarks and review of 1979 symposium 01 p0013 N84-10083
YOUNG, A. J.
Influence of hydration level and body fluids on exercise performance in the heat
[AD-A139284] 15 p2380 N84-25281
Skeletal muscle metabolism of sea-level natives following short-term high-altitude residence
[AD-A139323] 15 p2380 N84-25284
Anthropometric changes at high altitude
[AD-A140311] 16 p2535 N84-26277
The influence of cardiorespiratory fitness on the decrement in maximal aerobic power at high altitude
[AD-A142218] 19 p3066 N84-29452
Influence of heat stress and acclimation on maximal aerobic power
[AD-A142329] 19 p3066 N84-29453
YOUNG, B. R.
Software configuration management 05 p0723 N84-14742
YOUNG, C. E.
Effect of oxygen monolayer coverages on titanium sputtering yields as determined by simultaneous laser fluorescence and Auger measurements
[DE83-014716] 01 p0046 N84-10296
Narrow-band, near-UV, high-repetition-rate laser-induced fluorescence system for use as an dge diagnostic in fusion machine
[DE84-000586] 04 p0542 N84-13567
Velocity and electronic state distributions of sputtered Fe atoms by laser-induced fluorescence spectroscopy
[DE84-003649] 08 p1230 N84-18040
YOUNG, D.
Empirical studies of upper atmospheric species
[NASA-CR-172437] 21 p3443 N84-31847
YOUNG, D. A.
High pressure equation of state of Li, Na and K
[DE83-014844] 02 p0191 N84-11238
Theory of the iron equation of state and melting curve to very high pressures
[DE83-015899] 02 p0196 N84-11274
An acoustic levitation technique for the study of nonlinear oscillations of gas bubbles in liquids
[AD-A132858] 05 p0681 N84-14477
H Division: Materials physics
[DE84-001083] 07 p1068 N84-16939
H Division materials physics
[DE84-007789] 15 p2304 N84-24826
YOUNG, D. C.
Mechanical details of a modified Hamilton Frame velocimeter
[AD-A136180] 09 p1318 N84-18613
YOUNG, D. M.
Adapting iterative algorithms for solving large sparse linear systems for efficient use on the CDC CYBER 205 10 p1560 N84-20220
YOUNG, D. R.
Study of the physics of insulating films as related to the reliability of metal-oxide semiconductor devices
[AD-A133674] 05 p0754 N84-14944
YOUNG, D. T.
Energy distributions and yields of secondary ions and electrons emitted by GIOTTO during Halley encounter
[DE84-001661] 06 p0940 N84-16105
Energy distributions and yields of secondary ions and electrons emitted by GIOTTO during Halley encounter 08 p1118 N84-17272
YOUNG, E.
Evaluation of the Beijing Instrument Factory GDB-44F photomultiplier
[DE84-000849] 03 p0368 N84-12398
Satellite communications for the Pacific islands. Second year report
[NASA-CR-173171] 07 p0986 N84-16388
YOUNG, E. L.
Pacific Basin Communications Study, volume 1
[NASA-CR-173173] 12 p1805 N84-21767
Pacific Basin Communication Study, volume 2
[NASA-CR-173174] 12 p1805 N84-21768
YOUNG, F. C.
Beam-target interaction of intense ion beams: Theory and experiment
[DE83-018264] 03 p0436 N84-12858
Variation of laser absorption with plasma scalelength in long-scalelength plasmas
[DE84-002743] 06 p0921 N84-15991
X-ray production in long-scale length laser-plasma interaction experiments
[DE84-002472] 07 p1076 N84-16997
Current status of calculations and measurements of ion stopping power in ICF plasmas
[DE84-005880] 21 p3501 N84-32187
YOUNG, F. W., JR.
Solid-State Division
[DE84-000296] 04 p0613 N84-14045
YOUNG, I. R.
A three-dimensional description of the sea surface by means of marine navigation radar 23 p3771 N84-33906
YOUNG, J.
Uniform mass distribution properties and body size appropriate for the 50 percentile male aircrewmember, 1980 - 1990
[AD-A142946] 21 p3461 N84-31948
YOUNG, J. B.
Wet steam flow in L. P. turbines 06 p0841 N84-15483
YOUNG, J. C.
The development of aerodynamic uncertainties for the space shuttle orbiter 01 p0026 N84-10164
YOUNG, J. E.
Helicopter vertical stabilizer design considerations
[AD-A132308] 04 p0483 N84-13180
Steam reforming of fuel to hydrogen in fuel cell
[DE84-011115] 20 p3181 N84-30205
Solid oxide fuel cell having monolithic core
[DE84-014659] 23 p3743 N84-33728
YOUNG, J. F.
Laser techniques for extreme-ultraviolet spectroscopy
[DE83-014834] 02 p0227 N84-11486
Auger electron pumping of short wavelength lasers
[DE84-009240] 19 p3030 N84-29217

YOUNG, J. M.
An extreme ultraviolet spectrometer experiment for the Shuttle Get Away Special Program
18 p2801 N84-27778

YOUNG, J. P.
Implications of heavy-ion-induced satellite X-ray emission. Part 2: Production of K and L X-rays by 0.9 to 2.6 MeV/u Ar ions in thick targets of V, Cu, Nb, Ta, and Pt
[DE83-015681] 03 p0453 N84-12982

YOUNG, J. S.
Automated Construction Management System (ACMS). Volume 1: User's guide
[AD-A143031] 21 p3465 N84-31971
Automated Construction Management System (ACMS). Volume 2: Program documentation
[AD-A143032] 21 p3466 N84-31972

YOUNG, J. T.
Design and development of the multifunction flight control reference system 03 p0316 N84-12065
Application of multifunction strapdown inertial system 16 p2447 N84-25698
Applications of the AVE-Sesame data sets to mesoscale studies 24 p3931 N84-34886

YOUNG, J. W.
Decoupled control analysis of a large flexible space antenna with linear quadratic regulator comparisons
[NASA-TP-2293] 14 p2115 N84-23675
Anthropometric and mass distribution characteristics of the adult female, revised
[AD-A143066] 21 p3457 N84-31939

YOUNG, K. J.
Acoustic wave propagation through shear layer of the German-Dutch open jet wind tunnel (DNW)
[NLR-MP-83003-U] 12 p1901 N84-22379

YOUNG, L.
Fast ion atomic spectroscopy
[DE84-006720] 15 p2404 N84-25432

YOUNG, L. E.
Solar-array-materials passive LDEF experiment (A0171) 15 p2274 N84-24656
Satellite Emission Range Inferred Earth Survey (SERIES) project
[NASA-CR-173728] 18 p2791 N84-27714

YOUNG, L. R.
Temporal aspects of eye movement when viewing multiple targets
[AD-A134853] 06 p1201 N84-17828

YOUNG, M.
Measurement of multimode optical fiber attenuation
[PB83-151207] 05 p0748 N84-14913
Optical fiber characterization: Attenuation, frequency domain bandwidth, and radiation patterns, volume 2
[PB84-156914] 14 p2226 N84-24357
Measurement of multimode optical fiber attenuation: An NBS special test service
[PB84-192202] 21 p3499 N84-32179

YOUNG, M. I.
Dynamic stability of high order linear systems
15 p2312 N84-24874

YOUNG, M. J.
Detection of dotted forms in a structured visual noise environment
[AD-A138853] 13 p2022 N84-23108

YOUNG, N. J. B.
Automating the testing of software
06 p0774 N84-15074

YOUNG, P. D.
Magnetic anomalies of the ocean
[AD-A139602] 15 p2373 N84-25234

YOUNG, P. H.
Loop gain and circuit parameters for residual carrier tracking in the advanced DSN block V receiver
10 p1474 N84-19625
Some themes on Rolls-Royce military engine technology. Part 1: Old and new engines for combat aircraft. Part 2: After-burning technology
[PNR-90195] 13 p1934 N84-22579

YOUNG, P. N.
Cost analysis of Mode S data link avionics system for the low-performance general aviation aircraft community
[DOT/FAA/PM-83/38] 18 p2795 N84-27735

YOUNG, R.
Programmatic comments 02 p0263 N84-11732

YOUNG, R. J.
Development of high modulus polydiacetylene fibres for use in fibre-reinforced composites
[AD-A140912] 17 p2627 N84-26809

YOUNG, R. R.
High-efficiency dual-stroke compressor for heat pumps
[DE84-005613] 11 p1665 N84-20865

YOUNG, R. S.
A strategy for improving overhead cost control
[AD-A134661] 08 p1238 N84-18092

YOUNG, R. T.
Semiconductor processing with excimer lasers
[DE83-007509] 03 p0380 N84-12477
Update of pulsed-laser processing technology for high-efficiency silicon solar cells
[DE84-000638] 04 p0559 N84-13684
Beam processing for high-efficiency Si solar cells
[DE84-002059] 06 p0874 N84-15690

YOUNG, R. W.
The Defense Nuclear Agency intermediate dose program: An overview (effects of total-body irradiation on the performance of personnel in Army combat crews)
[AD-P003253] 18 p2905 N84-28420
The toxicity of petroleum and shale JP5
[AD-A142670] 20 p3260 N84-30690

YOUNG, S. L.
Limit analysis of plates by a finite element approach
01 p0093 N84-10604

YOUNG, T. R.
Numerical simulations of the structure and propagation of self-sustained detonations
[AD-A142486] 20 p3184 N84-30230

YOUNG, T. R., JR.
Theory of vorticity generation by shock wave and flame interactions
[AD-A144432] 24 p3880 N84-34582

YOUNG, V.
A study of MX environmental management information system (MXEMIS) needs
[AD-A139025] 13 p2067 N84-23404

YOUNG, W. R.
Ventilated and unventilated models of the wind-driven circulation
[AD-P002657] 11 p1690 N84-21022

YOUNGALE, E. P.
Infrared nonlinear optics 22 p3682 N84-33346

YOUNGBLUT, C.
Diagnosis of the GLAS climate model's stationary planetary waves using a linearized steady state model
12 p1856 N84-22095
Horizontal energy propagation in a baroclinic atmosphere with meridional and zonal structure
12 p1857 N84-22096

YOUNGDAHL, C. A.
In-situ measurements of bronze deterioration
[DE84-007300] 15 p2299 N84-24796

YOUNGDAHL, C. K.
Shock wave absorber having a deformable liner
[DE84-011308] 20 p3186 N84-30243

YOUNGER, J. W.
The effect of radiation pressure in nova ejecta
17 p2777 N84-27629

YOUNGHOUSE, L. B.
Segregation of impurities in directionally solidified silicon 18 p2940 N84-28647

YOUNGMAN, R. A.
Structural performance of ceramics in a high-fluence fusion environment
[DE84-001311] 04 p0508 N84-13329

YOUNKER, L. W.
Chemical evolution of a high-level magma system: The Black Mountain Volcanic Center, Southern Nevada
[DE84-013321] 20 p3243 N84-30587

YOUNKINS, T. D.
Method for determining how to operate and control wind turbine arrays in utility systems
[DE84-005617] 12 p1813 N84-21817

YOUNT, J. A.
Microprocessor enhanced real time manual control of an industrial robot
[DE84-011805] 21 p3413 N84-31645

YOUSIF, M.
Photon-stimulated ion desorption from condensed CO and N2
[AD-A133925] 05 p0647 N84-14254
Comparison of autoionization and photoelectron spectra of CO
[AD-A133902] 05 p0647 N84-14256

YOUSSEFI, A.
A unified data flow model for fault tolerant computers
[NASA-CR-173479] 12 p1877 N84-22230

YOW, R. P.
NASA metrology information system: A NEMS subsystem 22 p3672 N84-33279

YU, C.
Millimeter wave metal-insulator-metal detector/mixer diode
[AD-A136391] 12 p1812 N84-21815

YU, F. T. S.
White light signal processing with the application to spread spectrum communications
[AD-A132418] 04 p0520 N84-13417
Advances in white-light optical signal processing
12 p1905 N84-22406

YU, H.
Macrosegregation in aluminum alloy ingot cast by the semicontinuous direct chill method
24 p3883 N84-34600

YU, K. B.
Spatial resolution estimation of LANDSAT-4 TM data
20 p3210 N84-30394

YU, K. O.
Characterization of macrosegregation in ESR IN-718
24 p3882 N84-34596

YU, L. H.
Generation of intense coherent soft X-ray with electron microbunches induced and frozen by lasers
[DE84-005361] 10 p1501 N84-19811

YU, L. T.
New polyconjugated oxidation-reduction polymers, as well as a method and apparatus for electrochemical regeneration
[DE84-002813] 06 p0810 N84-15276

YU, P. K. L.
Long wavelength InGaAsP/InP lasers and optoelectronic integration 08 p1163 N84-17573

YU, P. W.
Photoluminescence excitation of the 1.441-eV cation antisite emission in p-type GaAs
[AD-A134332] 07 p1080 N84-17021
Compound semiconductor characterization
[AD-A143601] 23 p3830 N84-34292

YU, S.
Nitramine propellant ignition under rapid gas loading conditions 13 p1950 N84-22677
Analytic solution for the problem of gridded gap-electron flow interaction
[DE84-008975] 20 p3181 N84-30209

YU, S. S.
Comparisons of hydrodynamic beam models with kinetic treatments
[DE84-003242] 08 p1233 N84-18057
Observed current enhancement with propagation of the ETA electron beam in air
[DE84-010558] 20 p3293 N84-30909

YU, T. L.
Impurity characteristics of TMX-U
[DE84-012413] 20 p3297 N84-30932

YU, X.
Separation between stages of multistage carrier rocket
[AD-A132924] 05 p0644 N84-14237

YU, Y. H.
Helicopter impulsive noise: Theoretical and experimental status
[NASA-TM-84390] 09 p1386 N84-19050
Experiment versus theory 19 p3098 N84-29679

YU, Z.
The behavior of streamlines near separation point and separation criterion
[AD-A140649] 17 p2668 N84-27010

YUAMA, K.
Experimental study on porous-plug phase separator for superfluid He2
[ISAS-612] 20 p3308 N84-31008

YUAN, C. P.
Modeling and extraction of interconnect parameters in very-large-scale integrated circuits
[AD-A142381] 20 p3178 N84-30182

YUAN, D. W.
Correlation of tectonic provinces of South America and the Caribbean region with MAGSAT anomalies
15 p2355 N84-25130
Relation of MAGSAT anomalies to the main tectonic provinces of South America 15 p2356 N84-25137
Relation of MAGSAT and gravity anomalies to the main tectonic provinces of South America
15 p2357 N84-25138

YUAN, H. T.
GaAs/GaAlAs bipolar heterojunction gate array
[AD-A138203] 12 p1913 N84-22466

YUAN, S. W. K.
Vapor-liquid phase separator studies
[NASA-CR-166545] 08 p1156 N84-17527

YUAN, W.
Study of vibrational energy transfer at a surface by a time-of-flight method
[AD-A131798] 03 p0432 N84-12833

YUAN, Y. G.
Four-valued logic star algorithm and their applications
[AD-P002370] 14 p2194 N84-24161

YUANYOU, W.
Acta armamentarii (selected articles)
[AD-A143904] 23 p3726 N84-33610

YUCEOGLU, U.
Longitudinally stiffened composite multi-layer cylindrical shells (and rings) under internal pressure
15 p2309 N84-24855

YUCHENG, B.
Domestic satellite communication system to be established in China 24 p3891 N84-34635
YUDAKHIM, K. F.
Joint analysis of the data obtained by detecting the general, muon, and neutron components of cosmic ray intensity on May 7, 1978 24 p3993 N84-35270
YUDIN, G.
Role of aerodynamics in Tupolev, Ilyushin aircraft designs 24 p3851 N84-34426
YUDIN, M. F.
Standardization of terminology in field of ionizing radiations and their measurements 18 p2823 N84-27925
YUDOW, B. D.
USAF advanced terrestrial energy study. Volume 1: Project summary
[AD-A133803] 05 p0699 N84-14588
USAF advanced terrestrial energy study. Volume 2: Technology handbook
[AD-A133272] 06 p0873 N84-15684
USAF advanced terrestrial energy study. Volume 3: Parameter survey
[AD-A133501] 06 p0874 N84-15685
USAF advanced terrestrial energy study. Volume 4: Analysis, data, and bibliography
[AD-A133514] 06 p0874 N84-15686
YUE, M.
A study of elimination conditions for the permutation flow-shop sequencing problem
[CWI-OS-R8403] 17 p2754 N84-27483
YUEN, C. W.
Dynamical simulation of cloudy boundary layer flow during cold air outbreaks 22 p3624 N84-32964
YUEN, J. H.
A systolic VLSI design of a pipeline Reed-Solomon decoder 10 p1474 N84-19631
A strategy for successful deep space information transmission in bad weather 22 p3574 N84-32635
YUEN, M. L.
The role of hydrogen in the stress corrosion failure of high strength Al-Zn-Mg alloys
[AD-A136212] 09 p1284 N84-18388
YUEN, S. Y.
Infrared nonlinear processes in semiconductors
[AD-A141032] 18 p2940 N84-28649
YUEN, Y. C. S.
Infrared nonlinear optics 22 p3682 N84-33346
YUHUA, S.
Journal on Numerical Methods and Computer Applications (selected articles)
[AD-A134752] 08 p1220 N84-17967
YUILLE, A. L.
An extremum principle for shape from contour
[AD-A131321] 02 p0272 N84-11780
Scaling theorems for zero-crossings
[AD-A131599] 02 p0281 N84-11839
The smoothest velocity field and token matching schemes
[AD-A133633] 05 p0732 N84-14809
Fingerprint theorems for zero-crossings
[AD-A139181] 14 p2212 N84-24280
YUJUN, S.
Study of the fatigue crack propagation characteristics of YB-3 and YB-4 aeronautical organic glass 20 p3160 N84-30069
YUKHIMUK, A. K.
Influence of electric fields on potential waves in Earth's magnetosphere 17 p2705 N84-27225
YUKL, G. A.
Factor stability and construct validation of Yukl's MBS (Managerial Behavior Survey) for military leadership
[AD-P003246] 18 p2904 N84-28413
YULBERDIN, Y. F.
Waveguide characteristics of resonators with arbitrary distribution of dielectric permittivity 21 p3380 N84-31451
YULISH, A. N.
Method of flicker suppression in television image 17 p2632 N84-26838
YUN, M. P.
Introduction of productive welding and surfacing technological processes to production of nuclear powerplant equipment 12 p1787 N84-21655
YUN, S. W.
A study of distributed millimeter-wave isolators
[AD-A142729] 20 p3179 N84-30189
YUNG, C. N.
Grid flexibility and patching techniques 11 p1610 N84-20540
YUNG, C. S.
Intermodulation product levels in flame-sprayed materials 22 p3573 N84-32629
YUNOSHEV, V. P.
Industrial optodigital inspection system 24 p3942 N84-34955
YUPING, W.
Influences of directionally solidified techniques and hafnium content on a nickel base high temperature alloy 20 p3159 N84-30064
YURA, H. T.
Aperture averaging of scintillation for space-to-ground optical communication applications
[AD-A132198] 04 p0521 N84-13428
Optical scintillation statistics for infrared ground-to-space laser communication systems
[AD-A136607] 09 p1299 N84-18495
YURA, J. A.
Fatigue behavior of longitudinal transverse stiffener intersection
[PB84-202092] 22 p3612 N84-32887
Fatigue behavior of welded joints subjected to variable amplitude stresses
[PB84-207620] 22 p3612 N84-32888
YURCHENKO, Z. I.
Computations of the current profile influence on tearing instability
[NASA-TM-77285] 06 p0920 N84-15981
YUREVICH, F. B.
Influence of stratospheric aerosols forming during combustion of rocket fuels on Earth's albedo 11 p1670 N84-20899
YURIN, G. I.
Experimental study of stress-deformed state of three-layer shells made with anisotropic high-module composite materials 24 p3868 N84-34514
YUROV, V. Y.
Waveguide CO2 laser with 7.5 W power rating 21 p3487 N84-32098
YUROVA, K. S.
Demonstration of gas bubbles in canine pulmonary artery and aorta by means of ultrasonic echography with intravenous air infusion 02 p0261 N84-11708
Device for graded exercising of rats in pressure chamber 02 p0262 N84-11719
Reliability and efficiency of Kubicek rheographic method for monitoring cardiac output and stroke volume 20 p3253 N84-30644
Ultrasonography of canine soft tissues during decompression 20 p3254 N84-30653
YUROVSKIKH, V. G.
Occupational efficiency in relation to psychophysiological characteristics 18 p2896 N84-28373
YUSA, S.
Present state of research in Japan on toxicities of gases during fire 04 p0511 N84-13349
US-Japan cooperative research on evaluation of toxicity 04 p0514 N84-13375
YUSHAN, M.
Preliminary investigation of fatigue crack propagation of 30CrMnSiA steel in salt spray corrosion conditions 20 p3160 N84-30068
YUSSOUFF, M.
Electrical conductivity in random alloys
[DE84-701207] 24 p3884 N84-34611
YUST, C. S.
Observations on the sliding wear of ceramics
[DE84-012344] 21 p3372 N84-31395
YUSTINICH, J. B.
Energy efficient engine: Low-pressure turbine subsonic cascade component development and integration program
[NASA-CR-165592] 18 p2795 N84-27738
YUTER, S. E.
Preliminary results of albedo correlation between Europa and Ganymede 15 p2427 N84-25581
YUTO, M.
Development of short-distance optical transmission cord 11 p1727 N84-21268
YUZHAKOV, A. A.
Adaptive analog-to-digital converter 22 p3567 N84-32591
YUZHEN, Z.
The growth and measurement of single-crystal doped GGG (Gd3-xCaxGa5-xZrx012)
[AD-A131875] 03 p0452 N84-12971

Z

ZABEL, H.
Intercalate phonon densities of states for alkali-graphite compounds
[DE83-016515] 02 p0188 N84-11225
Phonon dispersion of transverse basal-plane modes in alkali-graphite compounds
[DE83-003910] 03 p0350 N84-12273
ZABEL, W. V.
A survey of contractor productivity measurement practices
[AD-P002831] 13 p2063 N84-23376
ZABELL, S.
Some alternatives to Bayes' rule
[AD-A135944] 09 p1383 N84-19033
ZABIELSKI, M. F.
Mechanisms and reaction dynamics related to methane combustion
[PB84-100932] 08 p1128 N84-17333
ZABLOTSKY, G. A.
Estimation of parameters of spray clouds
[BLL-TRANS-1571-(9022.552)] 08 p1190 N84-17752
ZABOLOTSKIY, A. A.
Composite materials with aluminum matrix reinforced with carbon fibers 24 p3872 N84-34537
ZABRODIN, V. K.
Thermal characteristics of plasma reactors with cylindrical and conical multijet mixing chambers 13 p1970 N84-22788
ZABUSKY, N. J.
Computational synergetics and innovation in wave, vortex, and plasma cloud dynamics
[DE83-015252] 03 p0445 N84-12928
Diagnostic algorithms for contour dynamics
[AD-P002947] 14 p2198 N84-24187
Estimating spectral indices from transforms of discrete representations of density functions
[AD-A140164] 16 p2557 N84-26404
ZACCANTI, G.
Effect of multiple scattering on the propagation of light beams in dense nonhomogeneous media 15 p2325 N84-24959
ZACHARA, J. M.
Chemical attenuation rates, coefficients, and constants in leachate migration. Volume 1: A critical review
[DE84-009432] 20 p3238 N84-30557
ZACHARIAS, F.
Considerations on the external combustion system of the Stirling hot gas engine
[NASA-TM-77026] 08 p1123 N84-17302
ZACHARIAS, G. L.
The VERRUN and VERNAL software systems for steady-state visual evoked response experimentation
[NASA-CR-172311] 16 p2539 N84-26298
ZACHARIE, D. F.
Design of a precision etalon position control system for a cryogenic spectrometer 15 p2348 N84-25093
ZACHARY, L. W.
Effects of crack closure on ultrasonic transmission
[DE83-018073] 04 p0546 N84-13599
ZACHOR, A.
Tests of an inversion algorithm for spectrally resolved limb emission
[AD-A134128] 05 p0733 N84-14814
ZACHOR, A. S.
Telemetry bandwidth selection for infrared surveillance sensors
[AD-A144251] 24 p3861 N84-34466
ZACHOS, C.
Renormalized action improvements
[DE84-011810] 20 p3311 N84-31028
ZACKS, S.
The visibility of stationary and moving targets in the plane subject to a Poisson field of shadowing elements
[AD-A141305] 18 p2927 N84-28562
Approximating the probabilities of detecting and of hitting targets and the probability distribution of the number of trials along the visible portions of curves in the plane subject to a Poisson shadowing process
[AD-A141327] 18 p2927 N84-28563
ZADNEPROVSKII, B. I.
X-ray diffraction study of the phase composition of the crystallization medium and inclusions in synthetic diamonds
[CSIR-TRANS-1723] 21 p3504 N84-32203
ZADUNAISKY, P. E.
A method for the estimation of small perturbations 19 p3118 N84-29817
ZAFREN, D. H.
Policy and legal issues involved in the commercialization of space
[GPO-21-495] 01 p0163 N84-11069
ZAGALSKY, P. F.
The alpha-crustacyanin, the lobster carapace astaxanthin-protein 23 p3804 N84-34122
ZAGHLOUL, A. I.
Phased-array-fed antenna configuration study. Volume 1: Technology assessment
[NASA-CR-168231] 07 p0991 N84-16423
Phased-array-fed antenna configuration study, volume 2
[NASA-CR-168232] 07 p0991 N84-16424
ZAGULI, R. J.
Results of an experimental program investigating the effects of simulated ice on the performance of the NACA 63A415 airfoil with flap
[NASA-CR-168288] 07 p0947 N84-16145

Potential flow analysis of glaze ice accretions on an airfoil
[NASA-CR-166282] 07 p0947 N84-16146

ZAHAVI, J.
Laser beam technology promoting high speed and selective plating processes
[AD-A143715] 23 p3754 N84-33797

ZAHORA, J. J.
Incorporation of an Nd:YAG laser engraver into Mound's machining operations
[DE84-014339] 23 p3755 N84-33801

ZAIGIN, M.
Influence of temperature on the Delta K sub th and da/dN of LY-12CS aluminum alloy 20 p3160 N84-30067

ZAININGER, H. W.
Investigate alternative interconnection strategies for arrays of wind turbine generators
[ORNL/SUB-82-69604/1] 16 p2512 N84-26120

ZAITLIN, M. P.
Superconductivity in filamentary eutectic composites
[DE84-005167] 10 p1453 N84-19489

ZAJACZKOWSKI, W.
Solvability of the leakage problem for the hydrodynamic Euler equations in Sobolev spaces
07 p1000 N84-16485
Existence and equivalence of solutions of mixed problems for Euler's hydrodynamic equations
[ISSN-0208-5658] 23 p3745 N84-33738

ZAJD, H. J.
Water resources data for New York, water year 1982. Volume 3: Western New York
[PB84-119544] 10 p1527 N84-20003

ZAJDMAN, A.
Electrical spray modification with various fuels in a t56 combustor
[AD-A139961] 15 p2304 N84-24824

ZAK, A. R.
Finite element model for nonaxisymmetric structure with rate dependent yield conditions
[AD-A139530] 14 p2158 N84-23930

ZAK, L. I.
Analytical description of hypersonic gas jet discharged into motionless medium or into supersonic companion stream 17 p2644 N84-26914

ZAK, M. A.
A feasibility study of the production of low loss IR fibers in space
[NASA-CR-173430] 14 p2225 N84-24351

ZAKE, M. V.
Thermal and electrical interaction of tantalum with a low temperature chemically active plasma flow
[NASA-TM-77374] 06 p0920 N84-15980

ZAKHARCHENKO, I. G.
Elastic properties of textured sheets of two-phase titanium alloys 23 p3708 N84-33505

ZAKHARCHENYA, B. P.
Metal-semiconductor phase transition and its application
[BLL-DRIC-T-7149-(3623.66)] 19 p3109 N84-29757

ZAKHARENKOV, Y. A.
Dynamics of plasma corona on spherical targets irradiated by laser 20 p3288 N84-30878

ZAKHAROV, A. V.
Observations of He+ ions in the solar wind
[KGI-PREPRINT-064] 15 p2428 N84-25585

ZAKHAROV, I. A.
Genetic study of plasmid integration in yeast chromosomes. Report 1: Effect of integration of episomal plasmid in meiotic crossover in chromosome 3
23 p3806 N84-34131
Genetic study of plasmid integration in yeast chromosomes. Report 2: Analysis of irregular meiotic segregation 23 p3806 N84-34132

ZAKHAROV, K.
Underwater laser anemometer for measuring ocean currents 18 p2857 N84-28141

ZAKHEIM, D.
Coaxial measurement of the translational distribution of CS produced in the laser photolysis of CS2 at 193nm
[AD-A134613] 07 p0970 N84-16286

ZAKIN, J. L.
A synthesized model of the near-wall behavior in turbulent boundary layers
[AD-A137029] 10 p1493 N84-19764

ZAKKAY, V.
Investigation of aerodynamics of non axisymmetric projectiles
[AD-A139107] 14 p2101 N84-23609

ZAKOWICZ, W.
Conceptual design of a 300-GeV accelerator based on the inverse free-electron laser mechanism
[DE84-001471] 04 p0601 N84-13969

ZAKRAJSEK, R. J.
Characteristics and capacities of the NASA Lewis Research Center high precision 6.7- by 6.7-m planar near-field scanner
[NASA-TM-83785] 22 p3598 N84-32789

ZAKY, S. G.
Ternary transmission to local area networks
[AD-P002360] 14 p2193 N84-24151

ZALAS, J. M.
Active attenuation of propeller blade passage noise
[NASA-CR-172386] 20 p3290 N84-30886

ZALESAK, S. T.
Small scale structure in the Earth's ionosphere: Theory and numerical simulation
[AD-A130462] 01 p0105 N84-10680
Long wavelength limit of the E X B instability
[AD-A129812] 01 p0105 N84-10681
Long wavelength limit of interchange instabilities
[AD-A138943] 13 p2011 N84-23047
On the linear stability of two-dimensional barium clouds. 1: The inviscid case
[AD-A141284] 18 p2880 N84-28285
Finite temperature effects on the evolution of ionospheric barium clouds in the presence of a conducting background ionosphere
[AD-A143592] 23 p3798 N84-34082

ZALOGUYEV, S. N.
Sanitary and hygienic features of cabin environment in Salyut-7 orbital station 15 p2375 N84-25253

ZALUZEC, N. J.
High-voltage analytical electron microscopy
[DE83-014318] 01 p0085 N84-10554
Electron-energy-loss spectral library and its application to materials science
[DE84-000588] 04 p0494 N84-13241

ZALYALYUTDINOV, K. G.
Quality and reliability of steel wire ropes
[BLL-M-35461-(5828.4)] 12 p1821 N84-21872

ZAMALIN, E. Y.
Change in surface of molybdenum trioxide during its evaporation in an inert atmosphere
[BLL-M-35552-(5826.4)] 17 p2621 N84-26773

ZAMAN, A.
Kolmogorov's and Mourier's strong laws for arrays with independent and identically distributed columns
[AD-A143222] 22 p3650 N84-33139
Kolmogorov's and Mourier's strong laws for arrays with independent and identically distributed columns
[AD-A143222] 22 p3650 N84-33139

ZAMKOV, V. N.
Welding with alloying and ultrasonic treatment with an ion beam 12 p1786 N84-21652

ZAMLUTTI, C. J.
A vector concept based on set theory
[INPE-2977-PRE/439] 07 p1068 N84-16936
A simplified upper atmosphere model to explain seasonal phenomena
[INPE-3071-PRE/488] 16 p2521 N84-26181
A few necessary considerations for the use of the finite element methods by non-specialists
[INPE-3238-PRE/586] 24 p3949 N84-35005

ZAMORA, R.
Case study of layer fine structure and turbulence within stable elevated layers
[PB84-158666] 14 p2182 N84-24076

ZAMPARELLI, S. J.
Competitive procurements: The synergistic linkage among government, industry and academe
[AD-P002773] 13 p2053 N84-23320

ZAMZOW, P. E.
Non-metallic long span aerial cable with optical fibres for the use at 1.3 micrometers 11 p1722 N84-21236

ZANDBERGEN, I.
Instrumentation for in-flight acoustic measurements in an engine intake
[NLR-MP-83060-U] 20 p3292 N84-30898

ZANG, T. A.
Spectral methods for partial differential equations
[NASA-CR-172248] 02 p0280 N84-11832
Spectral methods for the Euler equations: Chebyshev methods and shock-fitting
[NASA-CR-172295] 08 p1095 N84-17118
Spectral methods for the Euler equations: Fourier methods and shock-capturing
[NASA-CR-172294] 08 p1095 N84-17119
Spectral methods for partial differential equations
[AD-P002980] 14 p2202 N84-24216
A spectral collocation method for the Navier-Stokes equations
[NASA-CR-172365] 19 p3021 N84-29159

ZANGRILLI, N. L.
Cosmic ray NM-64 neutron monitor data-9, January-December 1980, Rome, Italy
[IFSI-83-11] 18 p2954 N84-28722
Cosmic ray NM-64 neutron monitor data-10, January-December 1981, Rome, Italy
[IFSI-83-12] 18 p2954 N84-28723
Cosmic ray NM-64 neutron monitor data-9, January-December 1982, Rome, Italy
[IFSI-83-13] 18 p2954 N84-28724

ZANN, D. A.
Network communications for a distributed avionics system 06 p0771 N84-15052

ZANOTTI, C.
Nonlinear burning stability of solid propellants
[AD-A143573] 22 p3562 N84-32554

ZANROSSO, E. M.
Medium energy gamma rays from the galactic center region 04 p0622 N84-14100

ZANTEMA, H.
Class numbers and units 08 p1225 N84-18001

ZAORSKI, R. W.
A timing and memory sizing study for wavenumber analyzer
[AD-A135581] 09 p1318 N84-18611

ZAPAS, L. J.
Relationship between morphology and mechanical properties of ultra high molecular weight polyethylene
[PB83-240960] 02 p0202 N84-11317

ZAPATA, C. A.
Spectroscopic measurements of solar wind generation
03 p0466 N84-13071

ZAPESOCHNYY, I. P.
Hollow cathode cell for pulsed lasers using metal vapors and their chemical compounds
13 p1968 N84-22778

ZAPKA, W.
Optical probing of photoacoustic propagation for noncontact measurement of flows, temperatures and chemical compositions
[AD-A134129] 05 p0684 N84-14496

ZAPLATYNSKY, I.
Method and apparatus for coating substrates using a laser
[NASA-CASE-LEW-13526-1] 13 p1995 N84-22944

ZAPOTOSKY, J. E.
Extremely Low Frequency (ELF) communications system ecological monitoring program: Plan and summary of 1982 progress
[AD-A135482] 08 p1144 N84-17445

ZARATE, D. A.
Preliminary guidelines for maintenance of polyurethane foam (PUF) roofing systems
[AD-A143458] 22 p3560 N84-32543

ZARDECKI, A.
Forward multiple scattering corrections as function of detector field of view
[AD-A130631] 01 p0106 N84-10686
Application of two-dimensional discrete-ordinates methods to multiple scattering of laser radiation
[AD-A133258] 06 p0849 N84-15539

ZARE, R. N.
Laser detection of chemical agents
[AD-A138122] 12 p1820 N84-21865
Study of gas-surface interactions by laser-induced fluorescence detection
[AD-A141559] 19 p2988 N84-28933

ZARIPOV, M.
Acceleration of S&T progress discussed
01 p0055 N84-10358

ZARITSKY, I. S.
Interactive signal synthesis system user's guide
[AD-A139594] 14 p2206 N84-24238

ZAROMB, S.
Portable device for detecting and identifying hazardous vapors
[DE84-003640] 14 p2148 N84-23870

ZARRELLI, L. B.
Performance of the collision avoidance logic during preliminary flight tests of the traffic alert and collision avoidance system (TCAS 3)
[MTR-82W238] 02 p0176 N84-11158

ZARRO, D. M.
Consequences of a chromospheric temperature gradient on the width of H Alpha in late-type giants
[NASA-CR-173359] 09 p1415 N84-19260

ZARUDI, M. Y.
Ellipsoidal magnetostatic shield
17 p2638 N84-26877

ZASAVITSKIY, I. I.
Picosecond parametric optical oscillator with amplification of radiation from tunable semiconductor laser 21 p3487 N84-32097

ZASTENKER, G. N.
Electron acceleration in the front of intense collisionless shock waves
[PR-813] 08 p1154 N84-17511

ZATSARNAYA, A. G.
Handbook on the determination of the physical, thermal and mechanical properties of frozen soils
[NRC/CNR-TT-2064] 03 p0395 N84-12578
ZATSEPIN, A. G.
Development of upper mixed ocean layer with increase in stability and in presence of wind
18 p2857 N84-28143
ZAUTNER, J. H.
Kinetic energy in the northern hemisphere during the FGGE (First GARP Global Experiment) year
[AD-A135382] 08 p1190 N84-17759
ZAVARITSKIY, N. V.
Detecting optical polarization of nuclei in semiconductors with super-conducting quantum interferometer
20 p3286 N84-30865
ZAVESKY, R. J.
Improved heat exchanger for electrothermal devices
[NASA-CASE-LEW-14037-1] 22 p3542 N84-32425
ZAVGORODNYAY, O. V.
Structure and direction of evolution of European tectonosphere according to geological and geophysical data 17 p2706 N84-27233
ZAVOYSKAYA, I. N.
Specifics of development of long-term variations in anomalous geomagnetic field on Crimean peninsula
18 p2863 N84-28179
ZAWACK, D. J.
A problem expanding parametric programming method for solving the job shop scheduling problem
[AD-A142392] 20 p3313 N84-31036
ZAWISTOWSKI, J.
Uniform asymptotic solution of the problem of diffraction for a linear quadrupole source
[ISSN-0208-5658] 23 p3729 N84-33631
ZAYNUTDINOV, S.
Uzbek SSR city of Shakhrisabz opens new airport: Tourism planned 01 p0001 N84-10007
ZAYTSEV, A. A.
Aerodynamics of hovering 17 p2645 N84-26923
ZAZYKIN, V. G.
Possibilities of creating invariant man-machine systems 17 p2743 N84-27414
ZBASNIK, J. P.
Advanced high-field coil designs: 20 Tesla
[DE83-017368] 03 p0368 N84-12397
Analytical studies of advanced high-field designs: 20-Tesla large-bore superconducting magnets
[DE83-017591] 04 p0594 N84-13918
Ultra-high-field superconducting magnets
[DE84-003913] 08 p1226 N84-18012
ZEBIB, A.
High Marangoni Number convection in a square cavity: Additional results
[AD-A144485] 24 p3901 N84-34701
ZEBKER, H. A.
Synthetic aperture radar target simulator
[NASA-CASE-NPO-15024-1] 18 p2827 N84-27951
ZEBROWSKI, J.
Studies on ion beams produced in a plasma focus, part 2 10 p1582 N84-20364
ZEEDERBERG, T. D.
Quality management in procurement
08 p1167 N84-17601
ZEEUWEN, J. P.
Estimate of blast wave properties
06 p0836 N84-15443
Vapor cloud explosion experiments
06 p0836 N84-15444
ZEEVI, Y. Y.
Temporal aspects of eye movement when viewing multiple targets
[AD-A134853] 08 p1201 N84-17828
ZEFF, J. D.
Chemistry and application of ozone and ozone/UV light for water reuse-2
[PB84-140557] 11 p1630 N84-20664
ZEHLE, H.
Computation of the sample range in presence of conditions on generalized variance
02 p0285 N84-11872
ZEHNA, P. W.
HP-41C programs and instructions for probability and statistics
[AD-A140573] 17 p2752 N84-27468
ZEHNDER, E.
Morse type index theory for flows and periodic solutions for Hamiltonian equations
[AD-A134431] 07 p1061 N84-16883
The Birkhoff-Lewis fixed point theorem and a conjecture of V. I. Arnold
[AD-A134534] 07 p1062 N84-16888
Note on subharmonic solutions of a Hamiltonian vector field
[AD-A134537] 07 p1062 N84-16890
ZEHNER, G. F.
Anthropometric and mass distribution characteristics of the adult female, revised
[AD-A143096] 21 p3457 N84-31939
ZEIDERS, G.
Proof of principle experiment for a coherent CO2 waveguide laser array
[AD-A139121] 14 p2150 N84-23881
ZEIDNER, L. E.
Computer methods for industrial automation and robotics 13 p2031 N84-23168
ZEIS, E.
Study on the perturbation of lunar and planetary orbiters
[MATRA-CMT-RT005] 23 p3697 N84-33429
ZEISLOFT, J.
Water geochemistry of hydrothermal systems, Wood River District, Idaho
[DE84-012190] 21 p3431 N84-31769
ZEISSE, C. R.
Furnace transient anneal process and apparatus
[AD-D011048] 19 p3002 N84-29027
ZEITLIN, A. D.
System safety study of minimum TCAS II (Traffic Alert and Collision Avoidance System)
[AD-A138674] 13 p1929 N84-22548
ZEITLIN, D. B.
Advanced motor-controller development
[AD-A140299] 16 p2484 N84-25934
ZEITLIN, G. M.
Neurocognitive pattern analysis
[AD-A131302] 01 p0114 N84-10740
Single trial brain electrical patterns of an auditory and visual perceptuomotor task
[AD-A135545] 09 p1362 N84-18899
ZELDES, H.
Electron spin resonance study of thermal instability reactions in jet fuels
[NASA-CR-168333] 09 p1289 N84-18418
ZELENETSKII, V. A.
Invariance of level of rotating liquid
[BLL-M-35611-(5828.4)] 20 p3182 N84-30220
ZELENKA, A.
Prospective use of a mobile radiation system to validate techniques of radiation estimations from satellite records
10 p1536 N84-20064
ZELENOV, A. A.
Fluctuation of velocity distribution under influence of suspended particles on turbulence in bottom current
17 p2699 N84-27191
ZELKOWITZ, M.
Current research in the Software Engineering Laboratory (SEL) 13 p2026 N84-23138
Characteristics of a prototype experiment
13 p2027 N84-23140
ZELON, H.
Personal exposure to volatile organics and other compounds indoors and outdoors: The TEAM (Total Exposure Assessment Methodology) study
[PB83-231357] 01 p0115 N84-10744
ZELTMANN, A. H.
Development of the CARS method for measurement of pressure and temperature gradients in centrifuges
[DE84-006321] 11 p1629 N84-20660
ZELTSER, S. R.
Special features of information presentation in teaching systems
[BLL-M-35604-(5828.4)] 21 p3516 N84-32273
Assessment of trends of input actions of inertial objects
[BLL-M-35689-(5828.4)] 22 p3644 N84-33104
ZELVER, N.
Microbial fouling and its effect on power generation
[AD-A131084] 01 p0112 N84-10726
ZEMACH, C.
Monte Carlo calculations of elementary particle properties 10 p1561 N84-20229
ZEMAN, G. H.
Kerma factors for use in 37-group neutron spectrum calculations
[AD-A139033] 13 p2041 N84-23240
ZEMBRZUSKI, T. J., JR.
Water resources data for New York, water year 1982. Volume 1: Eastern New York excluding Long Island
[PB84-114198] 09 p1339 N84-18744
ZEMEL, J. N.
Deep diode arrays for X-ray detection
[NASA-CR-175178] 09 p1306 N84-18537
ZEMLYANIKIN, V. F.
Martensitic transformations, relaxation and acoustic-emission properties of some alloys of the Fe-Ni-Mn system
[BLL-M-35434-(5828.4)] 09 p1281 N84-18363
ZEMLYANOY, A. D.
Influence of wind on rate of gas exchange through ocean-atmosphere interface 17 p2699 N84-27190
Evaluating parameters of vertical exchange of ocean waters by radioisotopic methods
18 p2858 N84-28146
ZEMPOLICH, B.
Aircraft multiplexing system architecture and stores compatibility
[AD-P003530] 21 p3331 N84-31134
ZENDLE, R.
Thermoluminescence dosimeter
[DE84-014247] 23 p3751 N84-33782
ZENGERLE, R.
Making use of wind energy: A course in evaluating and choosing sites for small wind machines
[DE83-014945] 01 p0109 N84-10707
The frequency characteristics of optical components used for communication systems based on optical frequency-division multiplex
[FI-451-TBR-9] 15 p2407 N84-25451
ZENKEVICH, V. B.
Discharging a superconducting store into an inverting converter
[AD-A135577] 09 p1341 N84-18761
ZENKOVSKIY, V.
Kirov's plant troubles with robotization
23 p3728 N84-33625
ZENOBI, T. J.
Passive Arm Restraint Curtain (PARC) for Navy aircraft ejection seats
[AD-A139435] 14 p2103 N84-23615
ZERBE, G. A.
Rush field experiments: Growth and initial decay of the mixed layer over an autumn landscape
[DE84-001671] 07 p1040 N84-16743
ZERILLI, F. J.
Shock induced molecular excitation in solids
[AD-A132236] 04 p0596 N84-13935
ZERR, B. A.
Laser utilizing a gaseous lasing medium and method for operating the same
[DE84-014500] 22 p3602 N84-32819
ZERWEKH, P. S.
Ultrasonic transducer with Gaussian radial pressure distribution
[NASA-CASE-LAR-12967-1] 13 p1993 N84-22932
ZESKIND, D. A.
Microwave and quantum magnetics
22 p3683 N84-33348
ZETSCHE, H.
Studies of satellite geodesy, Very Long Baseline Interferometry (VLBI) and geodetic measuring techniques
[BONN-MITT-65] 02 p0233 N84-11528
ZETTI, A.
Full- and half-range theory of indefinite Sturm-Liouville problems
[DE84-001672] 05 p0741 N84-14869
ZETZMANN, W.
Development of technology, circuit design and simulation procedures for Very Large Scale Integration (VLSI) systems, volume 1
[BMFT-FB-T-83-170-VOL-1] 10 p1487 N84-19724
Development of technology, circuit design and simulation procedures for Very Large Scale Integration (VLSI) systems, volume 2
[BMFT-FB-T-83-170-VOL-2] 10 p1487 N84-19725
ZEWEN, H.
Solar high and low temperature application for arid countries
[MBB-UR-583-82-OE] 02 p0251 N84-11640
Kuwait, phase 3/stage 1: Application and test program for the Sulaibyah food/water/power system
[BMFT-FB-T-84-024] 16 p2476 N84-25876
ZEYGELMAN, M. S.
Method for evaluating parameters of magnetized object of great horizontal extent 17 p2705 N84-27229
ZHABIN, A. I.
Novel method of assembling large multicomponent machine sets 17 p2641 N84-26899
ZHADAN, V. T.
Stability of mechanical properties of cold-drawn rolled metal with high-temperature thermomechanical treatment
[BLL-M-35292-(5828.4)] 06 p0803 N84-15233
ZHADIN, V. V.
Strong earthquake spatial-temporal correlations
18 p2860 N84-28162
ZHANDILDIN, T. E.
Movement of free-flowing materials in aerodynamic controlled-feed gate 09 p1324 N84-18652
ZHANG, B.
International aviation (selected articles)
[AD-A137617] 11 p1599 N84-20473
ZHANG, Q. T.
Preliminary study of a radiantly heated fluidized bed for the production of high purity silicon
[NASA-CR-173758] 19 p3050 N84-29352

ZHANG, H.
The behavior of streamlines near separation point and separation criterion
[AD-A140649] 17 p2668 N84-27010
ZHANG, J.
A critical assessment of viscous models of trench topography and corner flow
[NASA-CR-173648] 17 p2667 N84-27005
ZHANG, K. S.
Baroclinic instability in the stratosphere and mesosphere 17 p2683 N84-27082
ZHANG, M. J.
Cumulative creep damage for polycarbonate and polysulfone
[NASA-CR-173433] 16 p2471 N84-25840
ZHANG, Q. F.
A theoretical and experimental study of turbulent particle-laden jets
[NASA-CR-168293] 04 p0485 N84-13187
A theoretical and experimental study of turbulent nonevaporating sprays
[NASA-CR-174668] 20 p3130 N84-29877
A theoretical and experimental study of turbulent evaporating sprays
[NASA-CR-174760] 22 p3536 N84-32390
ZHANG, W. H.
The automatic remote sensing system on a 320 meter meteorological tower
[AD-A137144] 10 p1539 N84-20085
ZHANG, Y.
Wave characteristics of temperature inversion process of nighttime radiation
[AD-A136499] 09 p1348 N84-18809
ZHANG, Y. Z.
Renormalization theory of stationary homogeneous strong turbulence in a collisionless plasma
[DE84-006724] 12 p1910 N84-22443
ZHANG, Z.
The Korean auroral records, 1507 - 1747 and the SAR (Stable Auroral Red) arcs
[NASA-CR-174472] 01 p0104 N84-10677
ZHANG, Z. D.
Energy absorption by polymer crazing
[NASA-CR-173275] 07 p0978 N84-16335
Propagation of crazing in viscoelastic media
[NASA-CR-173244] 07 p1015 N84-16583
ZHANG, Z. X.
Far field radiation patterns from open ended oversized circular waveguides and identification of multimode outputs of gyrotrons
[IPF-83-5] 12 p1911 N84-22454
ZHAO, J.
Suboptimal LQ control problem using reconstructed state feedback control law 07 p0982 N84-16364
ZHAO, J. H.
A simple approach to determination of stiffness characteristics of unidirectional composites
[NASA-TM-77086] 07 p0967 N84-16263
ZHAOKUI, F.
Journal of Engineering Thermophysics (selected articles)
[AD-A137191] 11 p1745 N84-21391
ZHARIKOV, A. N.
Autonomous microprocessor controllers for scientific research automation systems 24 p3941 N84-34946
ZHARNITSKII, M. D.
The part played by the skin in the denitration of metal during vacuum arc remelting
[BLL-M-35213-(5828.4)] 01 p0041 N84-10261
ZHBANOV, Y. K.
Equations of small oscillations for inertial navigation system taking into account Earth's ellipsoidality 17 p2643 N84-26909
ZHEBYNEVA, N. F.
Interrelationship between temperature intervals of inverse martensite transformation and shape restoration in titanium nickelide-based alloys 12 p1786 N84-21648
ZHELEZOVSKIY, B. Y.
Theory of the two-frequency operating mode of traveling-wave tubes of the O type
[AD-A137616] 11 p1646 N84-20763
ZHEN-JIN, Z.
Periodicities in the occurrence of aurora as indicators of solar variability 03 p0470 N84-13093
ZHENG, D. Z.
The automatic remote sensing system on a 320 meter meteorological tower
[AD-A137144] 10 p1539 N84-20085
ZHENG, Y.
A study of the tempering transformation of retained austenite in isothermal quenching structures, bainite tempered embrittlement 20 p3159 N84-30065
ZHENG, Y. F.
Modeling, control and simulation of three-dimensional robotic systems with application to biped locomotion 21 p3460 N84-31943
ZHENHUI, W.
Combined ground-based and satellite remote sensing of temperature 23 p3774 N84-33926
ZHEVLAKOVA, L. A.
Detection of latent atherosclerotic stenosing lesions to great vessels of the head in flight personnel 07 p1046 N84-16787
ZHI, G.
Flowing effects in gas lasers
[AD-A141409] 21 p3409 N84-31620
ZHI, K.
On waves in nonadiabatic and nonequilibrium gases
[AD-A141450] 21 p3383 N84-31465
ZHIDKOV, V. V.
Effect of sydnocarb on hemodynamics and redistribution of blood during functional tests following six-hour antiorthostatic hypokinesia 07 p1045 N84-16777
Effect of dihydroergotamine on human circulation during orthostatic tests 20 p3253 N84-30646
ZHIGALSKIY, G. P.
Noise of 1/f form in polycrystalline aluminum films 17 p2633 N84-26843
ZHIHUI, S.
Nationwide computer users' information retrieval system 01 p0118 N84-10767
ZHILTSOVA, V. M.
Dissociation of amino acid-DNA complexes under influence of long-wave UV light 20 p3258 N84-30680
ZHIMING, G.
Characteristics of the mechanical properties and the fractures of an alpha beta titanium alloy
[AD-A136144] 09 p1284 N84-18386
ZHIMO, L.
Vector expansion transformation of logic algebra
[AD-P002349] 14 p2192 N84-24140
ZHIRMUNSKAYA, Y. A.
Variations in EEG in relation to brain functional status 18 p2897 N84-28377
ZHIZHIN, G. N.
Investigation of Bragg reflection of electromagnetic surface waves by diffraction grating 21 p3479 N84-32053
ZHONG, W. F.
Volume integrals associated with the inhomegeneous Helmholtz equation. Part 2: Cylindrical region; rectangular region
[NASA-CR-3750] 05 p0689 N84-14526
ZHONG, Y.
Microanalytical study of some cosmic dust discovered in sea-floor sediments in China
[NASA-TM-77409] 16 p2504 N84-26068
ZHONGHAN, L.
Rare-earth metals and their applications in aviation
[AD-A144410] 24 p3884 N84-34607
ZHONGYING, L.
Acta Aeronautica et Astronautica Sinicia (selected articles)
[AD-A137150] 11 p1599 N84-20475
ZHOOK, N. P.
Integral equations of electrodynamics in stratified media
[REPT-223] 17 p2757 N84-27501
ZHORDANIYA, I.
Effect from introduction of new technology in the Georgian SSR 01 p0056 N84-10361
ZHOU, B. M.
Analysis of the transfer function model of tray-type binary distillation columns with liquid hydraulic delay
[RR-234] 13 p1975 N84-22816
ZHOU, M.
Properties of aerosols during a dust storm over the Beijing area
[AD-A136521] 09 p1344 N84-18783
Wave characteristics of temperature inversion process of nighttime radiation
[AD-A136499] 09 p1348 N84-18809
Structural analysis of air outflow from low layers of intense thundercloud
[AD-A136500] 09 p1348 N84-18810
ZHOU, Y.
The Earth synchronous satellite carrier rocket
[AD-A138504] 12 p1778 N84-21602
ZHOU, Y. X.
Segregation of Si and Sn to the Fe(100) surface in the Fe-6.2% Si-0.03% Sn alloy
[AD-A138154] 12 p1798 N84-21726
ZHOU, Z.
Investigation of mathematical models to combine a terrestrial network with a satellite network
[SER-C-274] 03 p0392 N84-12554
ZHU, C.
Structural analysis of air outflow from low layers of intense thundercloud
[AD-A136500] 09 p1348 N84-18810
ZHU, J. Z.
The automatic remote sensing system on a 320 meter meteorological tower
[AD-A137144] 10 p1539 N84-20085
ZHU, S. Y.
Effects of adopting new precession, nutation and equinox corrections on the terrestrial reference frame 07 p1029 N84-16670
Reference frame requirements and the MERIT campaign
[REPT-329] 07 p1029 N84-16671
On the establishment and maintenance of a modern conventional terrestrial reference system
[NOAA-TR-NOS95-NGS-24] 07 p1029 N84-16672
ZHU, Z. F.
Optical bistability in four-level nonradiative dyes 14 p2237 N84-24425
ZHUANG, X.
Parametric characteristics of an electrically initiated HF laser
[AD-A144324] 24 p3908 N84-34757
ZHUBANOV, B. A.
Synthesis and investigation of polyimidobenzimidazoles
[AD-A140184] 16 p2471 N84-25838
ZHUK, F. D.
T-phase recording by OBS near the conjugation of the Kuril and Japan trenches 19 p3060 N84-29418
The seismicity of the continental slope of the Kuril trench from the OBS observations 19 p3061 N84-29420
ZHUK, F. I.
High speed laser formation of small diameter apertures in printed circuit board blanks 24 p3874 N84-34547
ZHUK, V. A.
methodological problems in evaluating and predicting water-ice resources in mountainous areas 18 p2856 N84-28135
Energy characteristics of plasma generated in air near target by radiation from CO2 laser 21 p3488 N84-32103
ZHUKHOVITSKIY, Y. M.
Second All-Union Seminar on Hydromechanics and Heat-Mass Transfer in Weightlessness. Abstracts of reports: Table of contents
[NASA-TM-77534] 09 p1312 N84-18576
ZHUKINSKIY, I. N.
Phase light range finder 21 p3380 N84-31447
ZHUKOV, N. D.
Effect of stress concentration on fatigue resistance of heat-resistant nickel alloys 23 p3707 N84-33503
ZHUKOVA, L. B.
Method for identifying trace contaminants in chamber atmosphere at high pressure 02 p0262 N84-11718
ZHUKOVSKII, V. G.
Possibility of using pulsed CO2 lasers for radiation scattering diagnostics in Tokamak plasmas
[BLL-CTO-2199-(9091.9F)] 12 p1909 N84-22437
ZHURAVLEV, S. N.
Electrical resistances of molten alloys of iron containing carbon, boron and phosphorus
[BLL-M-35214-(5828.4)] 01 p0041 N84-10263
ZHURAVLEV, V. F.
Stability of steady motion of planar body in field of central force 17 p2649 N84-26944
ZHURAVLEV, V. V.
Metabolic disturbances in man in an environment with low ammonia level and their correction by graded physical exercise 07 p1045 N84-16780
ZHURAVLEV, Y. I.
Economical multiplication of Boolean equations 21 p3484 N84-32079
ZIA, P.
Bond characteristics of epoxy coated reinforced bars
[PB83-205518] 01 p0058 N84-10379
ZIAGOS, J. P.
Theoretical and empirical terrestrial heat flow studies 06 p0875 N84-15696
ZICKER, W. L.
Pointing and tracking of particle beams
[AD-A138311] 12 p1902 N84-22385
ZIDEK, J. V.
Multi-Bayesian estimation theory
[CSIR-TWISK-296] 11 p1712 N84-21160
ZIEGLER, B.
Characterization of ceramic powders by an X-ray measuring method
[NASA-TM-77094] 09 p1286 N84-18398
ZIEGLER, C.
Computer simulator for a mobile telephone system
[NASA-CR-174533] 01 p0061 N84-10401

ZIEGLER, C. L.
Retrieval of thermal and microphysical variables in observed convective storms 23 p3799 N84-34089
ZIEMER, E.
Removal of ambiguity of two-dimensional gray level variance spectra obtained by processing ship radar images of ocean waves 23 p3772 N84-33909
ZIEMER, F.
A three-dimensional description of the sea surface by means of marine navigation radar 23 p3771 N84-33906
ZIEMER, W. P.
Cauchy flux and sets of finite perimeter [AD-A132834] 05 p0737 N84-14840
ZIENKIEWICZ, O. C.
Domain splitting for an explicit hyperbolic solver [C/R/469/83] 07 p1060 N84-16871
High speed inviscid compressible flow by the finite element method [NASA-CR-173556] 15 p2332 N84-25002
An adaptive finite element method for high speed compressible flow [NASA-CR-173443] 17 p2601 N84-26669
ZIENTEK, M. L.
Retrogenesis of the Basal Zone of the Stillwater Complex, Montana 21 p3439 N84-31818
ZIERKE, W. C.
The boundary layer on compressor cascade blades [NASA-CR-173514] 15 p2332 N84-25001
ZIESKE, P. L.
Turbulence environment characterization [AD-A131815] 03 p0411 N84-12692
ZIJM, W. H. M.
Nonnegative matrices in dynamic programming [MATH-CENTRE-TRACTS-167] 21 p3475 N84-32028
ZILGER, J.
The information network for a real-time controlled data acquisition of the Modular Optoelectronic Multispectral Scanner (MOMS) 23 p3765 N84-33863
ZILLIAC, G.
A model of the trailing edge separation on an airfoil [AD-A126703] 06 p0782 N84-15125
ZIMBELMAN, J. R.
Thermal infrared analysis of volcanic surfaces: Mars and Hawaii 13 p2088 N84-23524
ZIMCIK, D. G.
Flight test of a synthetic aperture radar antenna using STEP 08 p1113 N84-17237
An atomic oxygen facility for studying polymer materials for spacecraft applications 24 p3863 N84-34482
ZIMM, C. B.
Low-hysteresis materials for magnetic refrigeration: Gd sub 1-x/Er sub x/Al2 [DE84-001685] 04 p0505 N84-13307
Thermomagnetic properties of GdPd [DE84-009991] 22 p3556 N84-32515
ZIMMER, G.
Development of a transimpedance amplifier for cryotemperatures, study [BMFT-FB-W-84-023] 21 p3407 N84-31610
ZIMMER, H.
Polymerization of 3-methyl-2,5-Dibromothiophene utilizing n-butyl lithium and Copper(II) chloride [AD-A136955] 10 p1468 N84-19585
ZIMMER, J. E.
Disclinations in carbon-carbon composites [AD-A135248] 08 p1122 N84-17295
ZIMMERMAN, A. H.
Discharge kinetics of the nickel electrode [AD-A134389] 07 p0970 N84-16283
Automatic digital battery cell capacitance measurements [AD-A143143] 21 p3392 N84-31523
ZIMMERMAN, B. C.
Operational and functional description of the AERA packages [AD-A136852] 10 p1426 N84-19326
ZIMMERMAN, D. K.
MOD-2 wind turbine development [NASA-TM-83460] 04 p0557 N84-13670
ZIMMERMAN, E. L.
Single-mode fiber-optic sensor for high currents [DE83-014163] 02 p0295 N84-11933
ZIMMERMAN, H.
Influence of main design parameters on flutter behaviour for aircraft configurations with heavy concentrated masses 02 p0170 N84-11122
ZIMMERMAN, J. E.
A cryocooler for applications requiring low magnetic and mechanical interference 06 p0818 N84-15333
An approach to optimization of low-power Stirling cryocoolers 06 p0818 N84-15334
ZIMMERMAN, K. G.
Wind and wave summaries for selected U.S. Coast Guard operating areas [AD-A130647] 01 p0108 N84-10702
ZIMMERMAN, P.
A search for 183-GHz emission from water in late-type stars [NASA-TM-85987] 23 p3838 N84-34348
ZIMMERMAN, R. E.
Crashworthy cyclic control stick [AD-A135150] 08 p1103 N84-17176
ZIMMERMAN, R. M.
Ambient temperature testing of the G-tunnel heated block [DE84-009927] 20 p3298 N84-30945
ZIMMERMAN, S. P.
On the determination of the index of refraction of the atmosphere [AD-A132107] 04 p0563 N84-13713
On the horizontal and vertical variability of the vertical turbulent eddy diffusion coefficients in the mesosphere [AD-A137877] 11 p1687 N84-21002
ZIMMERMAN, W.
Evaluation of the HARDMAN comparability methodology for manpower, personnel and training [NASA-CR-173733] 18 p2915 N84-28485
ZIMMERMANN, G.
Boundary layer solution for the Rayleigh-Benard convection problem [MPIS-19/1983] 19 p3026 N84-29189
ZIMMERMANN, H. H.
CTX: A system for computer-aided indexing [BMFT-FB-ID-83-006] 02 p0303 N84-11986
ZIMMERMANN, H. J.
Decision algorithms in fuzzy situations [AD-P002968] 14 p2201 N84-24205
ZIMMERMANN, K. J.
On differential sensitivity analysis of structural systems [REPT-29.4.155/NT] 07 p1017 N84-16596
ZIMMERMANN, M.
Evaluation of non-intrusive flow measurement techniques for a re-entry flight experiment [NASA-CR-172142] 04 p0489 N84-13212
ZIMMERMANN, P.
183 GHz water line variation: An energetic outburst in orion KL [NASA-TM-85956] 16 p2574 N84-26522
ZINBERG, H.
Flight service evaluation of composite components on the Bell helicopter model 206L, flight service report [NASA-CR-172296] 10 p1452 N84-19479
ZINBO, M.
Time-temperature studies of high temperature deterioration phenomena in lubricant systems: Synthetic ester lubricants [AD-A135464] 08 p1166 N84-17594
ZINCHENKO, A. I.
Low-cycle fatigue of VT1-0 alloy and changes in its fine structure at temperatures of 293-4.2 deg K 23 p3708 N84-33509
ZINCHENKO, S. A.
Utilization of nonlinear properties of IMPATT-diodes in microwave devices (survey) 22 p3569 N84-32603
ZINEVICH, Y. P.
Angle resolution of wideband signals received by two slightly diverse linear antenna arrays 22 p3565 N84-32582
ZINGERMAN, L. S.
Reliability and efficiency of Kubicek rheographic method for monitoring cardiac output and stroke volume 20 p3253 N84-30644
ZINGG, D. W.
An approach to the design of airfoils with high lift to drag ratios [UTIAS-TN-245] 09 p1250 N84-18160
ZINK, W.
Aluminum precision forging components 14 p2094 N84-23563
ZINKE, P.
Forest environments 20 p3218 N84-30439
ZINKIN, S. A.
Structural approach to design of multiprocessor database management system 24 p3942 N84-34953
ZINKOVSKII, I. V.
Special features of electrochemical determination of non-uniformly distributed oxygen in melts [BLL-M-35105-(5828.4)] 01 p0036 N84-10226
ZINN, B. T.
Effect of oscillations upon velocity distributions in simulated solid propellant flow environments 13 p1945 N84-22646
ZINNER, E. K.
Chemical and isotopic measurements of micrometeoroids by secondary ion mass spectrometry (A0187-2) 15 p2276 N84-24870
ZINOEV, P. N.
Use of refractory coatings to protect metal gainst high-temperature corrosion [BLL-M-35543-(5828.4)] 17 p2621 N84-26772
ZINSMEISTER, M.
Conformal mapping and almost Lipschitzian curves 22 p3635 N84-33040
ZIOCK, K. O. H.
Experiments on the nuclear interactions of pions [DE83-016265] 03 p0434 N84-12644
ZIOLKOWSKI, C. J.
Medium- and high-pressure sonic leak pinpointing [PB83-228361] 01 p0086 N84-10557
ZIOLKOWSKI, R. W.
Mathematical and physical scaling of triggered lightning [DE84-002480] 05 p0709 N84-14846
Applications of Riemann-Hilbert problem techniques to electromagnetic coupling through apertures [DE84-009532] 19 p3009 N84-29073
ZIOMEK, L. J.
Linear time-variant space-variant filters and the WKB approximation [AD-A134886] 08 p1228 N84-18021
ZION, P. M.
Description of algorithms for processing Coastal Zone Color Scanner (CZCS) data [NASA-CR-173486] 12 p1863 N84-22138
ZIPOY, D. M.
Thermal bifurcation in the upper solar photosphere inferred from heterodyne spectroscopy of OH rotational lines [NASA-TM-86128] 17 p2781 N84-27654
ZIPPERIAN, T. E.
Ion-implanted strained-layer superlattice device [DE84-000101] 05 p0754 N84-14949
An In0 2Ga0 8As/GaAs, modulation-doped, strained-layer superlattice field-effect transistor [DE84-000136] 06 p0924 N84-16006
Irradiation of optimized, MBE grown, AlGaAs radiation hardened photodiode [DE84-008034] 21 p3504 N84-32208
ZIRBEL, J. L.
Water resources data for Minnesota, water year 1982. Volume 1: Great Lakes and Souris-Red-Rainy River Basins [PB84-163047] 14 p2171 N84-24007
Water resources data for Minnesota water year, 1982. Volume 2: Upper Mississippi and Missouri River Basins [PB84-163054] 14 p2171 N84-24008
ZIRIN, H.
Analysis of flares observed during the solar maximum year [AD-A137922] 11 p1759 N84-21481
ZIRKES-FALCO, M. B.
Prediction model for the life of nickel-cadmium batteries in geosynchronous orbit satellites 23 p3737 N84-33686
ZISK, S. A.
Geology of Maxwell Montes, Venus 13 p2077 N84-23460
Venus: Global distribution of Pioneer-Venus radar roughness and reflectivity and global correlation of altimetry, roughness and reflectivity observations 13 p2077 N84-23461
ZISK, S. H.
Venus analogues on the Earth's ocean floor(?): Volcanic terrains seen by SeaMARC 2 side scan sonar 11 p1755 N84-21456
Hypsometric studies of Mars. 13 p2089 N84-23530
ZISSA, D. E.
Signal-to-noise ratio for the wide field-planetary camera of the Space Telescope [NASA-TM-86472] 24 p3983 N84-35235
ZIZELMAN, J.
Dilution jet experiments in compact combustor configurations 11 p1611 N84-20545
ZIZKA, E. R.
A study of the empirical mass-luminosity diagram for early type stars 04 p0618 N84-14075
ZLOBIN, L.
Results from study of Earth resources from space 19 p2976 N84-28867
ZLOTNICK, C. B.
Furnace brazing: A mass production method for producing high strength joints 09 p1292 N84-18434
ZLOTNICKI, V.
Somali current studied from SEASAT altimetry 17 p2719 N84-27307
ZMUIDZINAS, J. S.
Spin-polarized triplet helium [NASA-CR-173787] 19 p2987 N84-26929

ZOBAKNIDZE, Z. B.
A crossed scintillation supertelescope to measure the muon component of cosmic ray intensity
24 p3994 N84-35274
ZOBRIST, A.
Evaluation of LANDSAT-4 TM and MSS ground geometry performance without ground control
[E84-10022] 01 p0099 N84-10644
ZOBRIST, A. L.
The Pennsylvania defoliation application pilot test
[E84-10111] 13 p2004 N84-23004
An analysis LANDSAT-4 Thematic Mapper geometric properties 20 p3210 N84-30392
ZOBY, E. V.
Orbiter catalytic/noncatalytic heat transfer as evidenced by heating to contaminated surfaces on STS-2 and STS-3 01 p0024 N84-10153
ZOELLNER, C.
Recycling of noble metals in connection with electrochemical processes
[BMFT-FB-T-83-140] 02 p0192 N84-11245
ZOELLNER, D. H.
Dimensionally stable electrode for fused salt electrolysis (replacement of petrol coke)
[BMFT-FB-T-83-224] 10 p1457 N84-19520
ZOGRAFOU, C.
Investigations into the burning-out of organic substances in the ceramic body
[NASA-TM-77065] 01 p0049 N84-10315
ZOHREI, M.
Cumulative damage in components of steel structures under cyclic inelastic loading 03 p0391 N84-12550
ZOLA, C. L.
Tandem fan applications in advanced STOVL fighter configurations
[NASA-TM-83689] 15 p2261 N84-24579
ZOLENSKY, M. E.
Toward a complete inventory of stratospheric dust particles with implications and their classification
11 p1756 N84-21464
ZOLLARS, G. J.
Experimental aerodynamic characteristics of missiles with square cross sections
[AD-A132278] 04 p0489 N84-13215
ZOLLWEG, J. A.
Heat-of-mixing experiments for liquefied gases
[PB84-215041] 22 p3562 N84-32560
ZOLOTAR, B.
Data engineering systems: Computerized modeling and data bank capabilities for engineering analysis
12 p1873 N84-22203
ZOLTAN, A.
Thermal conductivity behavior of boron carbides
[NASA-CR-173165] 09 p1316 N84-18600
ZOMBECK, M.
The AXAF technology program: The optical flats tests
[NASA-TM-82570] 10 p1578 N84-20341
ZONDERVAN, K. P.
Optimal low thrust, three burn orbit transfers with large plane changes 06 p0793 N84-15166
ZONGHI, R.
Determination of the sources of radar scattering
12 p1834 N84-21954
ZOOCK, I. E.
Experimental investigation of elastic mode control on a model of a transport aircraft
[NASA-CR-3472] 18 p2792 N84-27721
ZOOK, H. A.
The ISPM dust experiment 09 p1262 N84-18239
ZORASTER, S.
Manual and automated line generalization and feature displacement
[AD-A143250] 22 p3614 N84-32900
ZORENKO, N. A.
The effect of technological parameters on the heterogeneity of continuously cast slab
[BLL-M-35095-(5828.4)] 01 p0042 N84-10271
ZOREV, N. N.
Dynamics of plasma corona on spherical targets irradiated by laser 20 p3288 N84-30678
Heating and implosion of spherical targets irradiated by laser 20 p3286 N84-30679
ZORNIG, J. G.
Synthesis of arbitrary broadband signals for a parametric array
[AD-D011021] 19 p3100 N84-29691
ZORUMSKI, W. E.
Rotorcraft noise prediction 19 p3098 N84-29677
ZOTOV, O. G.
Influence of aging in martensite state on mechanical properties of Cu-Al-Zn system Beta-alloy
12 p1784 N84-21641
ZOUBEIDI, M.
A learning adaptive controller
10 p1568 N84-20272
ZOUGHI, R.
Determination of the sources of radar scattering
12 p1832 N84-21941
ZOUTENDYK, J.
The physics of a single-event upset in integrated circuits: A review and critique of analytical models for charge collection
[NASA-CR-173471] 12 p1912 N84-22459
ZOWARKA, R. C.
Energy stores and switches for rail-launcher systems
[NASA-CR-173249] 07 p0996 N84-16458
ZOWCZAK, W.
Limiting load capacity and weld measurements
[ISSN-0208-5658] 19 p3033 N84-29241
ZRNIC, D. S.
Fresnel zone considerations for reflection and scatter from refractive index irregularities
17 p2684 N84-27091
Investigation of the detectability and lifetime of gust fronts and other weather hazards to aircraft
[AD-A141552] 19 p3058 N84-29404
ZRNIC, S.
Analysis of lidar, radar and satellite measurements on severe thunderstorms and their environments
24 p3928 N84-34864
ZSCHUNKE, W.
Digital sound transmission methods for TV sound tracks
[BMFT-FB-W-84-007] 19 p3009 N84-29075
ZUBAL, I. G.
Fourier-processed images of dynamic lung function from list-mode data
[DE83-013276] 01 p0114 N84-10741
ZUBER, M. T.
Venus: The nature of the surface from Venera panoramas 13 p2077 N84-23459
ZUBIKOVA, S. M.
Effect of decimeter waves on physical-chemical state of membranes, thymocyte chromatin and immunological reactivity of an organism 17 p2742 N84-27411
ZUBKOV, N. S.
A procedure for investigating the composition of the plasma arc
[BLL-M-35454-(5826.4)] 09 p1391 N84-19083
ZUBKOV, V. I.
Amplification of traveling magnetostatic waves by parametric pumping 21 p3479 N84-32050
ZUBKOVA, S. M.
Analysis of some aspects of mechanism of action of helium-neon laser 21 p3455 N84-31922
ZUCCA, R. R.
Low-power radiation-hard GaAs RAM
[AD-A132325] 04 p0526 N84-13457
Advanced on-board signal processor GaAs memory
[AD-A135465] 06 p1210 N84-17890
Ion implanted GaAs IC. Process technology
[AD-A139348] 14 p2242 N84-24461
LSI/VLSI (Large Scale Integration/Very Large Scale Integration) ion implanted GaAs (Gallium Arsenide) IC processing
[AD-A139676] 15 p2328 N84-24979
LSI/VLSI (Large Scale Integration/Very Large Scale Integration) ion implanted GaAs (Gallium Arsenide) IC processing. Appendix A: Feasibility analysis of Gallium-Arsenide mask programmable functions and logic arrays for high performance communications systems
[AD-A139677] 15 p2328 N84-24980
LSI/VLSI (Large Scale Integration/Very Large Scale Integration) ion implanted GaAs (Gallium Arsenide) IC processing. Appendix B: Two-dimensional modeling of GaAs MESFET devices for integrated high-speed logic circuits
[AD-A139678] 15 p2328 N84-24981
ZUCHOWSKI, K.
Analysis of the influence of nonlinear and dissipative effects in atmospheric plasma
[ISSN-0208-5658] 19 p3106 N84-29732
ZUCKER, J. I.
Processes and the denotational semantics of concurrency 08 p1208 N84-17881
Compactness in semantics for merge and fair merge
[MC-IW-238/83] 13 p2035 N84-23199
ZUCKERWAR, A. J.
Acoustic ground impedance meter
[NASA-CASE-LAR-12995-1] 13 p1993 N84-22933
ZUDIN, M. V.
Passivation of amorphous alloys with various phosphorus contents 24 p3873 N84-34542
ZUE, V. W.
Speech recognition: Acoustic phonetic and lexical knowledge representation
[AD-A137697] 11 p1643 N84-20742
Speech communication 22 p3684 N84-33358
ZUHR, R. A.
Ion-beam surface analysis in plasma-edge studies
[DE84-001578] 04 p0607 N84-14004
Characterization of the TEXTOR plasma edge using deposition probe techniques
[DE84-003308] 07 p1078 N84-17011
ZUIDEMA, H.
Review of occupational medicine relevant to aviation medicine 22 p3631 N84-33012
ZUITHOFF, M.
Evaluation of arm protheses for unilateral amputees
20 p3264 N84-30713
ZUKHURTDINOV, M. A.
Study of intermetallic compounds in ternary systems Al-Ba-Nd and Al-Ba-Yb
[BLL-M-35387-(5828.4)] 08 p1129 N84-17343
ZUKOSKI, E. E.
Mechanisms of exciting pressure oscillations in ramjet engines
[AD-A133977] 05 p0631 N84-14150
ZUMDIECK, J.
Investigation of wave rotor turbofans for Cruise Missile engines, volume 1
[AD-A131167] 02 p0180 N84-11174
ZUMINO, B.
Chiral anomalies and differential geometry
[DE84-004637] 11 p1717 N84-21200
ZUNIGA, M. A.
Electromagnetic wave theory and remote sensing
22 p3683 N84-33350
ZUSHI, H.
Spectroscopy in heliotron E 11 p1735 N84-21320
ZUTAVERN, F. J.
Dielectric breakdown distributions of large dielectric constant liquids
[DE84-013216] 22 p3548 N84-32461
ZUYEVA, N. M.
Computations of the current profile influence on tearing instability
[NASA-TM-77285] 06 p0920 N84-15981
ZVEREV, M. S.
Fundamental astrometry today and tomorrow
05 p0634 N84-14165
ZVEREV, S. M.
Ocean bottom seismic equipment
19 p3060 N84-29413
ZWAAN, R. J.
Transonic flutter clearance for a supercritical transport aircraft in the preliminary stage
02 p0170 N84-11121
ZWALLY, H. J.
Antartic sea ice, 1973 - 1976: Satellite passive-microwave observations
[NASA-SP-459] 01 p0110 N84-10718
Arctic Sea ice by passive microwave observations from the Nimbus-5 Satellite 14 p2166 N84-23970
Matrix partitioning and EOF/principal component analysis of Antarctic Sea ice brightness temperatures
[NASA-TM-83916] 17 p2721 N84-27319
ZWANZIGER, M. G.
Hydrogen storage in the form of metal hydrides
[NASA-TM-77453] 19 p3050 N84-29356
ZWARTBOL, T.
Inertial-optical attitude determination and model following control of maneuvering spacecraft
15 p2267 N84-24613
Inertial-optical attitude determination and model following control of maneuvering spacecraft
[NLR-MP-83053-U] 17 p2616 N84-26742
ZWEBEN, S. H.
A study of the application of software metrics to COBOL
[AD-A141467] 19 p3076 N84-29516
ZWEBEN, W. H.
Analyzing program methodologies using software science
[AD-A138121] 12 p1881 N84-22259
ZWEIBEL, K.
Progress in polycrystalline thin-film solar cells
[DE83-012131] 06 p0875 N84-15691
ZWEIFEL, P. F.
Applied mathematics of transport theory
[DE84-004135] 10 p1590 N84-20422
Applied mathematics of transport theory
[DE84-011498] 20 p3282 N84-30838
ZWEINER, J. W.
Characterization of the general purpose research furnace for low-G directional solidification experiments
[NASA-TM-85718] 04 p0489 N84-13211
ZWETSLOOT, P. A. J.
West breakwater-Sines (Portugal): New aspects of armor units 08 p1195 N84-17789
ZWICK, H.
Visual function changes after laser exposure
[AD-A144210] 24 p3936 N84-34917
ZWICK, R.
The ISPM interstellar neutral-gas experiments
09 p1261 N84-18234

ZWICK, S. A.
Solid-oxide fuel-cell performance
[DE83-017926] 03 p0368 N84-12396
Method of fabricating a monolithic core for a solid oxide fuel cell
[DE84-014665] 23 p3743 N84-33727
ZWICKL, R. D.
Electron heating at interplanetary shocks
03 p0470 N84-13098
Plasma properties of driver gas following interplanetary shocks observed by ISEE-3 03 p0474 N84-13123
Interaction of the plasma tail of comet Bradfield 1979L on 1980 February 6 with a possibly flare-generated solar-wind disturbance 03 p0475 N84-13126
Interaction of the plasma tail of comet Bradfield 1979L on 1980 February 6 with a possibly flare-generated solar-wind disturbance
[NASA-TM-85617] 17 p2777 N84-27632
ZWIEGEL, J.
Testing of coatings in space, Long Duration Exposure Facility (LDEF)
[BMFT-FB-W-84-017] 21 p3353 N84-31269
ZYMBOLY, G. E.
Vapor deposition of stabilized zirconium oxide electrolyte and lanthanum chromite interconnection for multiple cell fabrication 11 p1739 N84-21346
ZYULKOV, V. A.
Nonlinear transmission of laser radiation by ZnTe monocrystals at helium temperatures
17 p2636 N84-26863
ZYVOLOSKI, G. A.
Economics of a conceptual 75 MW hot dry rock geothermal electric power station
[DE83-015926] 20 p3236 N84-30539

CORPORATE SOURCE INDEX

Typical Corporate Source Index Listing

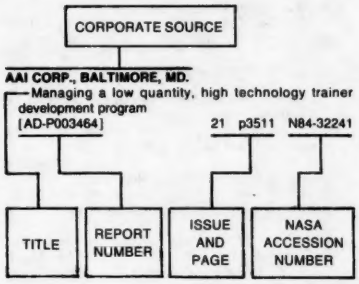

Listings in this index are arranged alphabetically by corporate source. Titles, without title extensions, are provided under each corporate source entry. The report number helps to indicate the type of document cited (e.g., NASA report, translation, NASA contractor report). The issue and page number identify the *STAR* issue in which the document was announced and the page number on which the citation appears. The NASA accession number denotes the number by which the citation is identified on that page. The listings are arranged under each corporate source in ascending accession number order.

A

AAI CORP., BALTIMORE, MD.
Managing a low quantity, high technology trainer development program
[AD-P003464] 21 p3511 N84-32241
Automated software testing
[AD-P003498] 21 p3515 N84-32264
Automatic audit information system for software development
[AD-P003499] 21 p3515 N84-32265

AAI CORP., COCKEYSVILLE, MD.
Software progress tracking system
[AD-P003488] 21 p3513 N84-32255

AALBORG UNIV. (DENMARK).
The Danish method: Experience and philosophy
16 p2505 N84-26078

ABERDEEN PROVING GROUND, MD.
Status of ammonium nitrate in propellants and explosives 13 p1946 N84-22655

ABERDEEN UNIV. (SCOTLAND).
Northeast Scotland coastal field guide and geographical essays
[AD-A134861] 08 p1178 N84-17674

ABG-SEMCA S.A., TOULOUSE (FRANCE).
Auxiliary power units for wide-body aircraft
03 p0334 N84-12174

ACADEMIA SINICA, LANZHOU (CHINA).
Estimation of planetary albedo and emission over the Tibetan plateau from AVHRR data
10 p1536 N84-20063

ACADEMIA SINICA, NANKANG, TAIPEI (TAIWAN).
On extending functional capabilities of cellular-logic devices for database management
24 p3959 N84-35067

ACADEMIC COMPUTER CENTER, UTRECHT (NETHERLANDS).
Solution methods for large sparse linear systems
[AD-A134529] 07 p1062 N84-16885
Effect of operating temperature on the HWB model for solar-collector design
[DE84-900248] 16 p2519 N84-26172

ACADEMY OF SCIENCES, POTSDAM (EAST GERMANY).
Mean depths of line formation
15 p2421 N84-25541
Line formation in turbulent media
15 p2421 N84-25542

ACADEMY OF SCIENCES OF THE UKRAINIAN SSR, KHARKOV (USSR).
The time-spatial structure of microwave radio fields on line-of-sight overwater paths
[REPT-220] 17 p2651 N84-26955
Scattering properties of partly screened dielectric sphere
[REPT-218] 17 p2662 N84-26983
Integral equations of electrodynamics in stratified media
[REPT-223] 17 p2757 N84-27501

ACADEMY OF SCIENCES OF THE UKRAINIAN SSR, KIEV (USSR).
Optical hysteresis and bistability in the wave-front conjugation by electrooptic crystals
14 p2234 N84-24406
Optical bistability and hysteresis under phase conjugation in CdS crystal 14 p2240 N84-24450
Multistability due to the helical optical distributed feedback in the cholesteric liquid crystals
14 p2241 N84-24454

ACADEMY OF SCIENCES (USSR), GORKY.
Alfven masers 05 p0636 N84-14182

ACADEMY OF SCIENCES (USSR), MOSCOW.
Plasma particle acceleration due to emission of ground-based and onboard transmitters
05 p0636 N84-14181
Strong acoustic wave action 05 p0636 N84-14186
On the stimulated precipitation of electrons and the mechanism of wave generation in the whistler range in the ARAKS experiment 05 p0637 N84-14190
Beam plasma discharge and suprathermal electron tails 05 p0637 N84-14192
Plasma processes in the region of electron beam injection from a high altitude payload
05 p0637 N84-14194
Modeling of beam-plasma discharge in the laboratory
05 p0638 N84-14200
Effects of small-scale plasma disturbance on the IKB-1300 spacecraft potential
[PR-839] 08 p1109 N84-17208
Electron acceleration in the front of intense collisionless shock waves
[PR-813] 08 p1154 N84-17511
Auroral ion acceleration
[PR-783] 08 p1184 N84-17715
Belt of life in the galaxy
[PR-761] 08 p1243 N84-18127
Proposals for VIRA (Venus International Reference Atmosphere): Chemical composition of atmosphere below 100 km
[PR-830] 08 p1244 N84-18134
Proposals for VIRA (Venus International Reference Atmosphere): Solar and thermal radiation
[PR-829] 08 p1244 N84-18135
Nonlinear waves in nonequilibrium systems of the oscillatory type
[PR-840] 09 p1312 N84-18570
The stability of elliptical stellar disks. Balanced disks
[PR-826] 09 p1385 N84-19043
Micropinch phenomenon in dense Z-pinch
10 p1583 N84-20378
Gamma ray line emission, nuclear destruction and neutron production in hot astrophysical plasmas. Deuterium boiler as a gamma ray source
[REPT-762] 11 p1733 N84-21301
Proposals for VIRA (Venus International Reference Atmosphere): Dynamics and structure below 100 km
[REPT-831] 11 p1758 N84-21475
Scientific activity in hydrology, 1979-1982
13 p2005 N84-23010
Scientific activity in oceanography, 1979-1982
13 p2018 N84-23084
Glaciology, volume 3: The mathematical theory of glaciomechanics
[ISSN-0202-7283] 19 p3038 N84-29274
Repeated gravimetric observations (collection of scientific works) 19 p3053 N84-29376
Seismological Research on the World Ocean
[REPT-9279] 19 p3059 N84-29411
The seismological investigations of the World Ocean: The state of the problem 19 p3059 N84-29412
Ocean bottom seismic equipment
19 p3060 N84-29413
The system of time service for ocean bottom seismic observations 19 p3060 N84-29414
Ocean bottom seismograph operation: Certain problems of procedure 19 p3060 N84-29415
Seismological investigations in the Indian Ocean by autonomous OBS 19 p3060 N84-29416
Seismological observations during the I and II Soviet-American expeditions for tsunami study in the open sea 19 p3060 N84-29417
T-phase recording by OBS near the conjugation of the Kuril and Japan trenches 19 p3060 N84-29418
Dominant depth of sources in the Kuril-Kamchatka earthquake focal zone from observations by surface and bottom stations 19 p3060 N84-29419
The seismicity of the continental slope of the Kuril trench from the OBS observations 19 p3061 N84-29420
On the elastic wave velocity distribution beneath the continental slope of the Kuril trench
19 p3061 N84-29421
Seismicity of the North-Eastern Sakhalin shelf
19 p3061 N84-29422
Seismicity of Iceland and the adjoining region of the Atlantic Ocean 19 p3061 N84-29423
Coordinated X-ray and ultraviolet observations of RU Lupi 24 p3978 N84-35199
Cosmic Rays, no. 23. Results of researches on the international geophysics projects
24 p3993 N84-35267
About the formation of particle energy spectrum by the statistical mechanism of particle acceleration: The character of particle energy gain in the statistical acceleration mechanism 24 p3993 N84-35268
Spectral characteristics of cosmic ray fluctuations
24 p3993 N84-35269
Joint analysis of the data obtained by detecting the general, muon, and neutron components of cosmic ray intensity on May 7, 1978 24 p3993 N84-35270
Calculations of the amplitude spectrum of the 27-day variations of galactic cosmic rays
24 p3993 N84-35271
Lunar variations of cosmic ray intensity
24 p3993 N84-35272
The study of peculiarities of the energy spectrum of low energy electrons in the lower atmosphere
24 p3993 N84-35273
A crossed scintillation supertelescope to measure the muon component of cosmic ray intensity
24 p3994 N84-35274
The density distribution of galactic cosmic rays allowing for the generalized tensor of anisotropic diffusion and for the real distribution of solar activity
24 p3994 N84-35275
The study of the dynamics of the electron fluxes and spectra during solar minimum 24 p3994 N84-35276
Nonuniformity and effectiveness of light collection in a large scintillation counter of ionizing radiation
24 p3994 N84-35277
Two large decreases of cosmic ray intensity in August and September, 1979 24 p3994 N84-35278
About the profile of cosmic ray intensity increase prior to Forbush-decrease 24 p3994 N84-35279

ACCUMULATORENFABRIK SONNENSCHEIN G.M.B.H., BUEDINGEN (WEST GERMANY).
Development of maintenance-free lead batteries
[BMFT-FB-T-83-150] 02 p0216 N84-11419

ACTON RESEARCH CORP., MASS.
Investigation of soft X-ray reflective coatings
[DE84-000510] 04 p0610 N84-14025

ACUREX CORP., MORRISVILLE, N.C.
Parabolic Dish Concentrator (PDC-2) development
18 p2871 N84-28227

ACUREX CORP., MOUNTAIN VIEW, CALIF.
Particle impact erosion. Volume 3. User's manual chamber flowfield code (CFC) and Charring Material Ablation-Erosion (CMAE) code
[AD-A131007] 02 p0186 N84-11208
Particle impact erosion. Volume 4. User's manual erosion prediction procedure for rocket nozzle expansion region
[AD-A131008] 02 p0186 N84-11209
Development of mass-producible line-focus tracking concentrating solar collectors. Category 1: Collectors
[DE83-015629] 03 p0403 N84-12639
Residual shale-oil/diesel-engine operating compatibility program
[DE84-000133] 04 p0545 N84-13587
Disclinations in carbon-carbon composites
[AD-A135248] 08 p1122 N84-17295
Linear Fresnel lens photovoltaic concentrator program
[DE84-002971] 08 p1180 N84-17689
Proceedings of the 5th Workshop on Catalytic Combustion
[PB84-145580] 12 p1794 N84-21703
Source-circuit design with multiple photovoltaic manufacturers 22 p3582 N84-32685
Grounding and fault protection of the SMUD PVI array 22 p3584 N84-32698
Interface standardization 22 p3584 N84-32700

ADAPTIVE SENSORS, INC., SANTA MONICA, CALIF.
Sidelobe cancelling techniques used in wideband systems 13 p1976 N84-22622
Generalized adaptive node concept 13 p1977 N84-22633
Minimum-error trellis-path decoders for convolutional codes
[AD-A140811] 17 p2753 N84-27474

ADAPTIVE TECHNOLOGIES, INC., SACRAMENTO, CALIF.
Digitally-controlled adaptive welding system
[PB84-125285] 09 p1326 N84-18664

ADELPHI UNIV., GARDEN CITY, N. Y.
Deterministic models in mathematical demography: An investigation of stable population theory including an analysis of the population statistics of Denmark 03 p0428 N84-12806

ADJUNCT SYSTEMS, INC., HUNTSVILLE, ALA.
Longwall shearer tracking system
[NASA-CASE-MFS-25717-1] 23 p3749 N84-33768

ADMIRALTY MARINE TECHNOLOGY ESTABLISHMENT, POOLE (ENGLAND).
Corrosion fatigue crack growth rates of weldments in Q1N steel
[AD-A141261] 18 p2814 N84-27864

ADMIRALTY MARINE TECHNOLOGY ESTABLISHMENT, TEDDINGTON (ENGLAND).
Short-range acoustic intensity vectors of the Pekeris shallow water model
[AMTE(N)-TM-83065] 03 p0430 N84-12819
Fluid layer between infinite elastic plates. I: Mathematics and intensity vectors
[AD-A144373] 24 p3901 N84-34700

ADMIRALTY UNDERWATER WEAPONS ESTABLISHMENT, PORTLAND (ENGLAND).
Turn-around loss for oceanic sound on a bottom slope
[AUWE-TN-705/83] 03 p0430 N84-12818

ADR SERVICES, INC., VIENNA, VA.
On-line edit users manual
[AD-A144021] 23 p3835 N84-34328

ADVANCED INFORMATION AND DECISION SYSTEMS, MOUNTAIN VIEW, CALIF.
Three-dimensional feature extraction
[AD-A131333] 02 p0294 N84-11926
Distributed hypothesis formation in distributed sensor networks
[AD-A133849] 05 p0731 N84-14802
Dynamic sequence assignment
[AD-A136548] 09 p1384 N84-19037
Distributed estimation systems
[AD-P002898] 13 p1980 N84-22857
An informal study of program comprehension
[AD-A142224] 19 p3079 N84-29534

ADVANCED MECHANICAL TECHNOLOGY, INC., NEWTON, MASS.
Integrated gas-fired space heating/water heating system with electric air conditioning
[PB84-181999] 20 p3171 N84-30138

ADVANCED PROPULSION AND ENERGY CONTROL SYSTEMS LTD., HAUTS (ENGLAND).
General introduction. Part 1: The waverider. Origins, evolution and applications. Part 2: Waverider aero-and aerothermodynamics. Part 3: Configuration design. Reentry gliders. Part 4: Configuration design. Cruise/ramjet vehicles 16 p2442 N84-25667

ADVANCED RESEARCH RESOURCES ORGANIZATION, BETHESDA, MD.
Validation of the military entrance physical strength capacity test
[AD-A142169] 19 p3066 N84-29451

ADVANCED RESEARCH RESOURCES ORGANIZATION, SILVER SPRING, MD.
Analysis of computer interactive tests for assigning helicopter pilots to different missions
[AD-A142434] 20 p3262 N84-30696

ADVANCED SOLAR POWER, INC., ANAHEIM, CALIF.
Advanced solar power systems 18 p2872 N84-28235

ADVANCED TECHNOLOGY AND RESEARCH, INC., BURTONSVILLE, MD.
Inertial energy storage hardware definition study (ring rotor)
[NASA-CR-175271] 10 p1529 N84-20015

ADVANCED TECHNOLOGY, INC., ARLINGTON, VA.
Economic production rate study
[AD-P002793] 13 p2057 N84-23340
Improving the effectiveness of award fee contracts for program management support services
[AD-P002827] 13 p2062 N84-23372

ADVANCO CORP., EL SEGUNDO, CALIF.
Parabolic dish Stirling module 18 p2873 N84-28241
Vanguard concentration 18 p2873 N84-28244

ADVISORY GROUP FOR AEROSPACE RESEARCH AND DEVELOPMENT, NEUILLY-SUR-SEINE (FRANCE).
AGARD Bulletin, technical programme, 1984
[AGARD-BUL-83/2] 01 p0002 N84-10010
Special Course on Aerodynamic Characteristics of Controls
[AGARD-R-711] 01 p0013 N84-10082
Computer-Aided Design and Analysis of Digital Guidance and Control Systems
[AGARD-LS-128] 01 p0014 N84-10093
Characterization, Analysis and Significance of Defects in Composite Materials
[AGARD-CP-355] 01 p0032 N84-10203
Aeroelastic Considerations in the Preliminary Design of Aircraft
[AGARD-CP-354] 02 p0169 N84-11116
Some trends in airship technology developments
[AGARD-R-717] 03 p0314 N84-12050
Integration of Fire Control, Flight Control and Propulsion Control Systems
[AGARD-CP-349] 03 p0315 N84-12056
Special Course on Subsonic/Transonic Aerodynamic Interference for Aircraft
[AGARD-R-712] 03 p0317 N84-12072
Aerodynamics of Vortical Type Flows in Three Dimensions
[AGARD-CP-342] 03 p0321 N84-12099
Auxiliary Power Systems
[AGARD-CP-352] 03 p0333 N84-12168
The Performance of Antennas in Their Operational Environment
[AGARD-LS-131] 03 p0363 N84-12367
Advanced Concepts for Avionics/Weapon System Design, Development and Integration
[AGARD-CP-343] 06 p0768 N84-15034
Flight Mechanics and System Design Lessons From Operational Experience
[AGARD-CP-347] 06 p0775 N84-15076
Calibration of air-data systems and flow direction sensors. AGARD Flight Test Techniques Series, volume 1
[AGARD-AG-300-VOL-1] 06 p0848 N84-15530
Propagation Factors Affecting Remote Sensing by Radio Waves
[AGARD-CP-345] 06 p0867 N84-15646
Medical aspects of survival: Training for aircrew
[AGARD-AG-283(FR)] 06 p0891 N84-15787
Sleep and wakefulness handbook for flight medical officers
[AGARD-AG-270(FR)] 06 p0891 N84-15788
Viscous Effects in Turbomachines
[AGARD-CP-351] 07 p0954 N84-16188
Development and Use of Numerical and Factual Data Bases
[AGARD-LS-130] 07 p1085 N84-17059
Two-dimensional wind tunnel wall interference
[AD-A138964] 11 p1603 N84-20499
Helicopter fatigue design guide
[AD-A138963] 11 p1605 N84-20513
Sustained Intensive Air Operations: Physiological and Performance Aspects
[AGARD-CP-338] 11 p1696 N84-21062
Non-invasive methods of cardiovascular exploration in aerospace medicine
[AGARD-AG-277(E)] 11 p1699 N84-21082
The Application of New Technologies to Improve the Delivery of Aerospace and Defence Information
[AGARD-CP-357] 11 p1750 N84-21425
Calendar of selected aeronautical and space meetings
[AGARD-CAL-83/2] 11 p1761 N84-21490
AGARD highlights
[AGARD-HIGHLIGHTS-83/1] 12 p1763 N84-21493
AGARD Highlights, September 1983
[AGARD-HIGHLIGHTS-83/2] 12 p1763 N84-21494
Report by the Chairman of the Flight Mechanics Panel 12 p1763 N84-21495
AGARD Highlights, September 1982
[AGARD-HIGHLIGHTS-82/2] 12 p1763 N84-21496
The corrosion-fatigue cooperative testing programme 12 p1763 N84-21497
AGARD Highlights, March 1984
[AGARD-HIGHLIGHTS-84/1] 12 p1763 N84-21498
Report by the Chairman of the Fluid Dynamics Panel 12 p1763 N84-21499
Aerospace research and technology in Germany 12 p1763 N84-21500
Guides to aerospace research and development in NATO countries. Bibliography
[AGARD-R-718] 12 p1920 N84-22509
Wind Tunnels and Testing Techniques
[AGARD-CP-348] 14 p2094 N84-23564
AGARD index of publications, 1980-1982
[ISBN-92-835-1462-9] 14 p2248 N84-24502
Calendar of AGARD technical meetings 1984 14 p2252 N84-24526
AGARD bulletin: Meetings, publications, membership
[AGARD-BUL-84/1] 14 p2252 N84-24527
Guidance and Control Techniques for Advanced Space Vehicles
[AGARD-CP-350] 15 p2265 N84-24603
Combustion Problems in Turbine Engines
[AGARD-CP-353] 15 p2289 N84-24732
Characteristics of the Lower Atmosphere Influencing Radio Wave Propagation
[AGARD-CP-346] 15 p2322 N84-24943
Workshop on Requirements for Aircraft Corrosion Control
[AGARD-R-714] 16 p2434 N84-25613
Special Course on V/STOL Aerodynamics
[AGARD-R-710] 16 p2436 N84-25625
Advances in Strapdown Inertial Systems
[AGARD-LS-133] 16 p2446 N84-25691
Operational and Performance Measurement on Engines in Sea Level Test Facilities
[AGARD-LS-132] 16 p2452 N84-25723
Aermedical Support in Military Helicopter Operations
[AGARD-LS-134] 16 p2536 N84-26279
A survey of biodynamic test devices and methods
[AD-A142467] 20 p3133 N84-29894
Advanced Technology for SAM Systems Analysis Synthesis and Simulation
[AGARD-LS-135] 21 p3350 N84-31248
Composite structure repair
[AD-A141456] 21 p3358 N84-31300
Calendar of selected aeronautical and space meetings
[AGARD-CAL-84/1] 21 p3527 N84-32341
Future requirements for airborne simulation
[AGARD-AR-188] 22 p3538 N84-32401
Occupational Medicine Relevant to Aviation Medicine
[AGARD-CP-341] 22 p3631 N84-33011
Materials Substitution and Recycling
[AGARD-CP-356] 23 p3702 N84-33465
Special Course on Stability and Transition of Laminar Flow
[AGARD-R-709] 23 p3748 N84-33757
Report of the working group on large-scale computing in aeronautics
[AGARD-AR-209] 23 p3813 N84-34177
Flight Test Techniques
[AGARD-CP-373] 24 p3847 N84-34396

AECI LTD., NORTH RAND (SOUTH AFRICA).
Productivity improvement in a jobbing shop 09 p1293 N84-18449

AEG-TELEFUNKEN, BACKNANG (WEST GERMANY).
Digital transponder 11/14 GHz, 120 Mbit/sec. Phase 2: Transponder test equipment and system measurements
[BMFT-FB-W-83-013] 07 p0994 N84-16448
Digital transponder (14/11 GHz, 120 Mbit/sec.). Phase 1: Preinvestigation and modem development
[BMFT-FB-W-83-019] 07 p0995 N84-16449

AEG-TELEFUNKEN, FRANKFURT AM MAIN (WEST GERMANY).
Crystalline photoconductive films for electrophotographic recording
[BMFT-FB-T-84-099] 21 p3408 N84-31614

AEG-TELEFUNKEN, HEILBRONN (WEST GERMANY).
Development of technologies for highly integrated circuits
[BMFT-FB-T-83-142] 02 p0216 N84-11417
Civil applications of infrared techniques
[BMFT-FB-T-83-132] 02 p0267 N84-11753

Dopants profiling techniques in semiconductor technology
[BMFT-FB-T-83-126] 02 p0300 N84-11972
Technology for LSI circuits combining integrated injection logic and bipolar transistors
[BMFT-FB-T-83-210] 10 p1489 N84-19733
Infrared devices for control applications
[BMFT-FB-T-83-247] 10 p1579 N84-20349

AEG-TELEFUNKEN, MOENCHENGLADBACH (WEST GERMANY).
Non-metallic long span aerial cable with optical fibres for the use at 1.3 micrometers 11 p1722 N84-21236

AEG-TELEFUNKEN, ULM (WEST GERMANY).
Monolithic integrated analog switching arrays
[BMFT-FB-T-83-146] 02 p0216 N84-11418
Development of large area Multi-coloured Multifunctional Displays (MFA) in liquid crystal technology
[BMFT-FB-T-83-098] 02 p0300 N84-11970
Applications of analog Change Coupled Devices (CCD's)
[BMFT-FB-T-83-141] 03 p0456 N84-13002
Development and qualification of a 20 GHz/30 W traveling wave tube
[BMFT-FB-W-83-023] 10 p1488 N84-19727
A 60 GHz pulse radar for detection of high voltage power lines
[BMFT-FB-W-84-013] 19 p3009 N84-29077
Development of a 30 GHz/10 W traveling wave tube
[BMFT-FB-W-84-004] 19 p3019 N84-29142

AEG-TELEFUNKEN, WEDEL (WEST GERMANY).
Development of technologies for very thin solar cells
[BMFT-FB-W-83-024] 08 p1181 N84-17694
Development or a solar cell coverglass adhesive for space application
[BMFT-FB-W-83-029] 08 p1181 N84-17695
Development and prototype production of photovoltaic energy supply systems
[BMFT-FB-T-83-236] 10 p1531 N84-20025
Processing of optical gray value patterns
[BMFT-FB-DV-83-003] 10 p1579 N84-20348
Silicon solar cells: Development and qualification of thin (50 to 100 micron) and large area (5 cm x 5 cm) high efficiency cells
[BMFT-FB-W-84-016] 21 p3436 N84-31798

AEL INDUSTRIES, INC., LANSDALE, PA.
Computer analysis of phased array far-field patterns for non-symmetrical feed networks
[AD-P003502] 21 p3383 N84-31470

AERITALIA S.P.A., CASELLE TORINESE (ITALY).
Critical factors and operational research in tactical fighter avionic system development 06 p0773 N84-15062
Autopilot performance evaluation Tornado experience and future applications 24 p3849 N84-34407

AERITALIA S.P.A., NAPLES (ITALY).
Experimental modal analysis of a partial full-scale fuselage of turboprop aircraft 18 p2794 N84-27732

AERITALIA S.P.A., TORINO (ITALY).
Correction between nondestructive inspection results and performance of graphite/epoxy structural parts 01 p0034 N84-10212
Flight parameters recording for safety monitoring and investigations 06 p0775 N84-15063
Development of a spacecraft infrared test technique as an alternative to solar simulation: First steps on L-SAT thermal model 10 p1439 N84-19398
Heat pipes for the L-SAT communications module radiators 10 p1440 N84-19405
The thermal design of L-SAT large telecommunication satellite 10 p1441 N84-19414
Design and manufacturing of a heat rejection system for advanced thermal control 10 p1444 N84-19434
Thermal control of tethered satellite in a very low altitude aerodynamic mission 10 p1446 N84-19444
Simplification of thermal design by the use of effective sink temperature method 10 p1448 N84-19461
Design of a wind tunnel afterbody model for the development of a transonic combat aircraft 14 p2098 N84-23591
The influence of sensor and thruster imperfections on the attitude and position of a spacecraft performing a rendezvous 15 p2267 N84-24615
Study of ERS-1 dynamic interaction. Volume 1: Theoretical notes
[ER-RP-A1-002-VOL-1] 16 p2456 N84-25747
POPSAT: A candidate satellite system for solid Earth applications and sciences. Preliminary feasibility study. Volume 1: Summary
[ESA-CR(P)-1882-VOL-1] 17 p2614 N84-26735
POPSAT: A candidate satellite system for solid Earth applications and sciences. Preliminary feasibility study. Volume 2: Development program
[ESA-CR(P)-1882-VOL-2] 17 p2614 N84-26736
Heat rejection system technology demonstration model
[TD-RP-AI-004] 23 p3701 N84-33459
Flight test techniques used for proof of structural integrity of Tornado when carrying external stores 24 p3849 N84-34413

AEROCHEM RESEARCH LABS., INC., PRINCETON, N. J.
Prototype chemiluminescent analyzer for measurement of hydrazines and nitrogen dioxide
[AD-A135622] 09 p1279 N84-18354
Ionic mechanisms of carbon formation in flames
[AD-A137079] 10 p1455 N84-19505
Fuel effects on soot formation in turbojet engines
[AD-A141287] 18 p2821 N84-27912

AERODYNE RESEARCH, INC., BEDFORD, MASS.
Automatic holographic droplet analysis for liquid fuel sprays 11 p1609 N84-20531

AERODYNE RESEARCH, INC., BILLERICA, MASS.
Hypervelocity supersonic nozzle beam source of atomic oxygen 24 p3863 N84-34480

AEROJET ELECTROSYSTEMS CO., AZUSA, CALIF.
Conceptual design of a hybrid Ge:Ga
[NASA-CR-166605] 24 p3902 N84-34708

AEROJET-GENERAL CORP., SACRAMENTO, CALIF.
Auxiliary propulsion 09 p1268 N84-18283

AEROJET LIQUID ROCKET CO., SACRAMENTO, CALIF.
Combustion performance and heat transfer characterization of LOX/hydrocarbon type propellants, volume 2
[NASA-CR-171714] 02 p0202 N84-11318
Combustion performance and heat transfer characterization of LOX/hydrocarbon type propellants, volume 1
[NASA-CR-171713] 02 p0202 N84-11319
Combustion performance and heat transfer characterization of LOX/hydrocarbon type propellants
[NASA-CR-171712] 02 p0205 N84-11335

AEROJET STRATEGIC PROPULSION CO., SACRAMENTO, CALIF.
Particle impact erosion. Volume 3. User's manual chamber flowfield code (CFC) and Charring Material Ablation-Erosion (CMAE) code
[AD-A131007] 02 p0186 N84-11208
Particle impact erosion. Volume 4. User's manual erosion prediction procedure for rocket nozzle expansion region
[AD-A131008] 02 p0186 N84-11209
A NDT ignition delay predictive tool 20 p3143 N84-29958

AEROJET TECHNICAL SYSTEMS CO., SACRAMENTO, CALIF.
Low cost manufacturing of tactical rocket motors 20 p3143 N84-29959

AEROJET TECHSYSTEMS CO., SACRAMENTO, CALIF.
Dual mode propulsion system engine testing for INTELSAT 20 p3136 N84-29913
Shuttle payload improvement by low risk modifications to the OMS engine 20 p3138 N84-29925

AEROMETRICS, INC., MOUNTAIN VIEW, CALIF.
Analysis and testing of a new method for drop size and velocity measurements using laser light scatter interferometry 11 p1608 N84-20529
Analysis and testing of a new method for drop size measurement using laser scatter interferometry
[NASA-CR-174636] 21 p3405 N84-31595
Flow-field measurements on an airfoil with an oscillating trailing-edge using holographic interferometry
[NASA-CR-166604] 24 p3852 N84-34430

AERONAUTICA MACCHI S. P. A., VARESE (ITALY).
Use of a small scale wind tunnel and model shop at Aeronautica Macchi as an industrial tool 14 p2097 N84-23585

AERONAUTICAL RESEARCH ASSOCIATES OF PRINCETON, INC., N. J.
Further developments of the A. R. A. P. model for the atmospheric marine environment
[AD-A129862] 01 p0107 N84-10696
Toward a new kinetic theory for resonant triads
[AD-A137096] 10 p1571 N84-20297
Exhaust plume induced fluctuations in the index of refraction at optical wavelengths 13 p1941 N84-22624
Aircraft exhaust plume signature predictions for non-axisymmetric multiple engine installations 13 p1942 N84-22627
Research in nonlinear motion
[AD-A143000] 21 p3473 N84-32013

AERONAUTICAL RESEARCH INST. OF SWEDEN, BROMMA.
Numerical solutions of the Euler equations simulating vortex flows around wings 03 p0324 N84-12120
Practical three-dimensional mesh generation using transfinite interpolation 06 p0838 N84-15463
Explicit multistage finite volume procedure to solve the Euler equations for transonic flow 06 p0838 N84-15464
Vector coding the finite volume procedure for the CYBER 205 06 p0839 N84-15465

AERONAUTICAL RESEARCH INST. OF SWEDEN, STOCKHOLM.
Fatigue of fiber composites
[FFA-TN-1983-30] 03 p0348 N84-12260
An X-ray radiography study of delamination growth in notched carbon/epoxy laminates
[FFA-TN-1983-29] 03 p0386 N84-12516
Gust structure and gust statistics. Results from an analysis of atmospheric turbulence measurements by using conditional sampling technique
[FFA-TN-1983-28] 03 p0412 N84-12696
Development of a computer code for a three-dimensional higher order panel method for subsonic potential flow
[FFA-138] 04 p0479 N84-13155
Calculation of transonic flow around two wing-fuselage combinations using a full potential equation method
[FFA-137] 06 p0783 N84-15132
Development of a computer code for 3-dimensional higher order panel method for subsonic potential flow
[FFA-136] 09 p1253 N84-18180
Analysis of sound produced by wind turbines in turbulent flow
[FFA-TN-1983-44] 09 p1387 N84-19057
The effect on acoustic radiation of mutual interaction between a line vortex and an airfoil
[FFA-TN-1983-45] 09 p1387 N84-19058
Delamination growth in notched graphite/epoxy laminates under compression fatigue loading
[FFA-TN-1983-57] 15 p2284 N84-24713
A fundamental study of relation between the velocity fields far upstream of, at and far downstream of a a rotor disk in a shear flow
[FFA-136] 17 p2667 N84-27006
On the propagation of bending waves in a periodically stiffened panel
[FFA-TN-1984-12] 18 p2853 N84-28119
A description of two methods for calculation of low frequency wind turbine noise, including applications for the Swedish prototype Wind Energy Conversion System (WECS) Maglarp
[FFA-TN-1983-31] 18 p2876 N84-28262

AERONAUTICAL RESEARCH LABS., MELBOURNE (AUSTRALIA).
Aircraft fatigue, with particular emphasis on Australian operations and research
[AD-A131036] 01 p0009 N84-10051
Gust response of a light, single-engined, high-wing aircraft
[AD-A131033] 01 p0013 N84-10081
A review of Australian investigations on aeronautical fatigue during the period April 1981 to March 1983
[AD-A130968] 03 p0388 N84-12532
Maximum likelihood estimation of linear dynamic system parameters
[AR-002-934] 03 p0425 N84-12780
Power effects on the longitudinal characteristics on single-engine propeller-driven aircraft
[ARL-AERO-REPT-157] 04 p0483 N84-13174
Engine performance monitoring: Rolls-Royce Dart and Allison T56 turbo-prop engines
[ARL-MECH-ENG-NOTE-393] 04 p0486 N84-13191
Improving the fatigue performance of thick aluminum alloy bolted joints by hole cold-expansion and the use of interference-fit steel bushes
[ARL-STRUC-NOTE-486] 04 p0543 N84-13578
Initial estimates of damping rates and frequencies
[ARL-STRUC-NOTE-485] 04 p0587 N84-13879
A solution technique for complex matrix games
[ARL-SYS-NOTE-83] 04 p0592 N84-13910
An application of the finite element method to the solution of low Reynolds number, incompressible flow around a Joukowski aerofoil, with emphasis on automatic generation of grids
[AD-A133008] 05 p0628 N84-14127
SPECAN (Spectral Analysis): A program in ACSL for stochastic time series analysis
[AD-A133719] 05 p0728 N84-14777
Report on visit to the US and Europe in May 1983, covering the 1983 ICAF (International Committee on Aeronautical Fatigue) Meetings and related visits
[AD-A133415] 06 p0786 N84-15147
The effect of discrete spanwise regions of bleed on pseudo-two-dimensional base flow at transonic speeds
[ARL-AERO-NOTE-418] 07 p0945 N84-16132
The effect of some water-displacing corrosion preventatives on corrosion of aluminum alloys 7075-T651 and 2024-T6
[ARL-MAT-REPT-115] 07 p0973 N84-16307
Interaction of a turbulent boundary layer with a normal shock wave followed by an adverse pressure gradient
[ARL-MECH-ENG-REPT-161] 07 p1000 N84-16487
Some thoughts on 3-D isoparametric elements
[ARL-STRUC-NOTE-489] 07 p1059 N84-16860
Calculation of the aerodynamic flow field in the vicinity of a Sea King helicopter
[ARL-AERO-REPT-158] 08 p1096 N84-17128

The cumulative exceedance distribution for accelerations due to turbulence encountered by a CT/4A air trainer
[AD-A135640] 09 p1258 N84-18211
Some aspects of the compatibility between strain gauge readout equipment and multi-component wind tunnel balances
[ARL-AERO-NOTE-417] 09 p1317 N84-18606
The use of interference-fit bolts or bushes and hole cold expansion for increasing the fatigue life of thick-section aluminium alloy bolted joints
[AR-002-973] 09 p1329 N84-18676
An experimental investigation of the aerodynamic effects of forward facing wedges on the upper surface and leading edge of an aerofoil, with emphasis on high angles of attack
[ARL-AERO-TECH-MEMO-356] 11 p1599 N84-20477
Retraction and lowering of the mirage undercarriage
[AD-A137791] 11 p1606 N84-20518
A parametric study of ramrocket performance
[ARL-MECH-ENG-NOTE-395] 11 p1625 N84-20633
Surface modification by physical vapour deposition
[AD-A137844] 11 p1637 N84-20706
On the genesis of reliability models
[ARL-STRUC-REPT-393] 12 p1824 N84-21889
A flow visualisation study of tip vortex formation
[ARL-AERO-NOTE-421] 14 p2100 N84-23603
On separating turbulent boundary layers
[ARL-MECH-ENG-REPT-162] 14 p2144 N84-23851
Weathering trials and new rigidity tests on protective helmets for motor cyclists
[ARL-STRUC-TECH-MEMO-372] 15 p2300 N84-24804
Digital control of flight simulator motion base actuator
[ARL-SYS-TM-69] 16 p2454 N84-25732
NERF: A computer program for the numerical evaluation of reliability functions-reliability modeling, numerical methods and program documentation
[AR-00-984] 16 p2500 N84-26048
Acceleration and confinement of energetic particles in the 7 June 1980 solar flare
[NASA-CR-173545] 16 p2580 N84-26550
Proposed crashworthiness requirements for the Australian Basic Trainer
[AD-A140850] 17 p2603 N84-26682
Report of an overseas visit to the USA, part 2
[AD-A142054] 19 p2955 N84-28729
An experimental investigation of the aerodynamic effects of forward facing wedges on the upper surface and leading edge of an aerofoil, with emphasis at high angles of attack
[AD-A142053] 19 p2959 N84-28755
Strains in an elastic plate containing an interference-fit bolt near a free edge
[AR-003-012] 20 p3201 N84-30333
Simulated crash decelerations in a light aircraft cabin
[AD-A142806] 21 p3326 N84-31102
Extensions and modifications to the ARL point-performance program
[AD-A142078] 21 p3328 N84-31113
Fuselage torsion of a CT4 aircraft
[AD-A142753] 21 p3328 N84-31114
Calibration of CT-4A fatigue test article, March 1983
[AD-A142880] 21 p3328 N84-31115
Some factors affecting the selection of the type of new transonic tunnel to best meet Australian needs
[AD-A142957] 21 p3345 N84-31222
Evaluation of a vibration technique for detection of barely-visible impact-damage in composites
[AD-A142807] 21 p3357 N84-31293
How many specimens? An aid in the design of fatigue test programs
[AD-A142810] 21 p3422 N84-31704
The need for biaxial fatigue testing at A.R.L.
[AD-A143203] 22 p3611 N84-32878
Array processor utilization in the computation of real-time images
[ARL-SYS-TM-73] 22 p3637 N84-33058
Flight systems raster graphics software reference manual
[ARL-SYS-TM-72] 22 p3639 N84-33072
Analysis of the double overlap fatigue specimen
[ARL-STRUC-REPT-402] 23 p3760 N84-33833
An assembly language program for calculating random decrement signatures
[AD-A143908] 23 p3815 N84-34195
Improving the fatigue life of the Mirage IIIO wing main spar
[ARL-STRUC-REPT-398] 24 p3853 N84-34437
The use of adhesive-bonded rivets to lessen the reductions in fatigue life caused by rivet holes
[ARL-STRUC-REPT-399] 24 p3887 N84-34617
Modelling for fatigue crack growth prediction in Mirage IIIO frame 26
[ARL-STRUC-REPT-401] 24 p3912 N84-34772

AERONAUTICAL SYSTEMS DIV., WRIGHT-PATTERSON AFB, OHIO.

Assessing contracting workforce requirements in the matrixed organization
[AD-P002760] 13 p2052 N84-23307
The avionics integrity program (AVIP)
[AD-P002817] 13 p2060 N84-23362
A quality improvement strategy for systems acquisition
[AD-P002820] 13 p2061 N84-23365
Engine product performance agreements and the future
[AD-P002821] 13 p2061 N84-23366
The Score technique: An analytical approach for assessing the results of manufacturing reviews
[AD-P002838] 13 p2064 N84-23383
Overview of HUD (Head-Up Display) optical designs
[AD-P003157] 17 p2588 N84-26588
Sun/Moon capture evaluation
[AD-P003160] 17 p2588 N84-26591
Physical integration of the HUD (Head-Up Display)
[AD-P003163] 17 p2589 N84-26594
NASTRAN analysis comparison to shock tube tests used to simulate nuclear overpressures
[AD-A142290] 20 p3202 N84-30337
Proceedings papers of the 2nd AFSC (Air Force Systems Command) Avionics Standardization Conference, volume 1
[AD-A142776] 21 p3329 N84-31121
JOVIAL language control procedures with a view toward Ada (Trademark)
[AD-P003522] 21 p3330 N84-31126
MIL-STD-1553B validation testing
[AD-P003544] 21 p3333 N84-31148
MIL-STD-1750A verification testing
[AD-P003555] 21 p3335 N84-31159
Proceedings papers of the 2nd AFSC (Air Force Systems Command) Avionics Standardization Conference, volume 2
[AD-A142777] 21 p3335 N84-31165
An introduction to the avionics integrity program
[AD-P003565] 21 p3336 N84-31170
MIL-PRIME Program System
[AD-P003576] 21 p3336 N84-31181
Proposed MIL-STD for avionics installation interfaces
[AD-P003578] 21 p3338 N84-31183
LANTIRN (Low Altitude Navigation and Targeting Infrared System for Night) - tommorrow's software development today
[AD-P003583] 21 p3339 N84-31188
MATE standardization
[AD-P003587] 21 p3340 N84-31192
Proceedings of the 2nd AFSC (Air Force Systems Command) Avionics Standardization Conference. Volume 3: Embedded computer resources governing documents
[AD-A142778] 21 p3342 N84-31201
Proceedings of the 2nd AFSC (Air Force Systems Command) Avionics Standardization Conference. Volume 4: Tutorial: MIL-STD-1553 multiplex data bus
[AD-A142779] 21 p3342 N84-31202
Proceedings of the 2nd AFSC (Air Force Systems Command) Avionics Standardization Conference. Volume 5: Tutorial: MIL-STD-1589 JOVIAL (J-73) high order language
[AD-A142780] 21 p3342 N84-31203
Proceedings of the 2nd AFSC (Air Force Systems Command) Avionics Standardization Conference. Volume 6: Tutorial: MIL-STD-1679 weapon system software development
[AD-A142781] 21 p3342 N84-31204
Proceedings of the 2nd AFSC (Air Force Systems Command) Avionics Standardization Conference. Volume 7: Tutorial: MIL-STD-1750, 16 bit instruction set architecture
[AD-A142782] 21 p3342 N84-31205
Proceedings of the 2nd AFSC (Air Force Systems Command) Avionics Standardization Conference. Volume 8: Tutorial: MIL-STD-1815 Ada high order language
[AD-A142783] 21 p3342 N84-31206
Proceedings of the 2nd AFSC (Air Force Systems Command) Avionics Standardization Conference. Volume 9: Tutorial: Navy case study implementation of military standards
[AD-A142784] 21 p3342 N84-31207
Managing aircraft/simulator concurrency
[AD-P003463] 21 p3511 N84-32240
An approach to a standardized simulator data base
[AD-P003469] 21 p3511 N84-32244

AEROPLANE AND ARMAMENT EXPERIMENTAL ESTABLISHMENT, BOSCOMBE DOWN (ENGLAND).

The handling and performance trials needed to clear an aircraft to act as a receiver during air-to-air refuelling 24 p3848 N84-34405
Flight test techniques employed in the Nimrod MR MK 2 weapon system performance trials 24 p3849 N84-34410

AEROSPACE CORP., EL SEGUNDO, CALIF.

Assessment of the environmental aspects of the DOE phosphoric acid fuel cell program
[NASA-CR-168131] 01 p0102 N84-10663
The NEST chemistry computer program: Operations handbook
[AD-A130215] 01 p0121 N84-10788
Mach reflection flow fields associated with strong shocks
[AD-A131384] 02 p0175 N84-11148
Higher order numerical simulations of the Knudsen layer
[AD-A131538] 02 p0190 N84-11234
A wideband low-sidelobe disc-o-cone antenna
[AD-A131440] 02 p0210 N84-11370
Reliability analysis of the gradual degradation of semiconductor devices
[AD-A131375] 02 p0213 N84-11395
Laser chemical etching of vias in GaAs
[AD-A131288] 02 p0226 N84-11479
The Mimas ghost revisited: An analysis of the electron flux and electron microsignatures observed in the vicinity of Mimas at Saturn
[NASA-CR-174596] 03 p0464 N84-13056
Aperture averaging of scintillation for space-to-ground optical communication applications
[AD-A132198] 04 p0521 N84-13428
Fast optical position-sensitive detector for McPherson ESCA-36
[AD-A132606] 05 p0685 N84-14501
Spacecraft-borne long life cryogenic refrigeration: Status and trends 06 p0818 N84-15331
Mesophase behavior fundamental to the processing of carbon-carbon composites
[AD-A134283] 07 p0968 N84-16270
Discharge kinetics of the nickel electrode
[AD-A134389] 07 p0970 N84-16283
A wideband corner-reflector antenna for 240 to 400 MHz
[AD-A134281] 07 p0992 N84-16433
Whistler mode interactions and plasma sheet electrons
[AD-A134327] 07 p0993 N84-16436
Saturation processes in doppler-broadened HF vibrational transitions
[AD-A134282] 07 p1009 N84-16546
Chain reaction mechanism for I2 dissociation in the O2 (1 delta)-I atom laser
[AD-A134370] 07 p1010 N84-16548
A technique for the nondestructive detection of voids and composition anomalies in metal matrix composite wires using X or gamma rays
[AD-A135481] 08 p1132 N84-17359
Measurements of hypergolic fuels' and oxidants' permeation through commercial protective materials: Part 1. Inhibited red fuming nitric acid and unsymmetrical dimethylhydrazine
[AD-A134714] 08 p1139 N84-17411
Modeling study of a CW HF resonance transfer laser medium
[AD-A134866] 08 p1164 N84-17580
Optical scintillation statistics for infrared ground-to-space laser communication systems
[AD-A136607] 09 p1299 N84-18495
Electric field distortion in electro-optical devices subjected to ionizing radiation
[AD-A136573] 09 p1308 N84-18549
An investigation of methods for computing long path atmospheric transmittance
[AD-A136434] 09 p1345 N84-18785
Fabry-Perot interference filters
[AD-A136511] 09 p1388 N84-19066
Water and alcohol use in automotive diesel engines: Alternative Fuels Utilization Program
[DE84-004196] 10 p1470 N84-19603
Extragalactic radio sources: Rapid variability at 90 GHz
[AD-A136533] 10 p1595 N84-20451
Creep of carbon yarns and composites at high temperature
[AD-A138143] 12 p1790 N84-21671
A minimum range criterion for RCS (Radar Cross-Section) measurements of a target dominated by point scatterers
[AD-A138230] 12 p1807 N84-21780
Temporal measurement of spectrally resolved output of multiline HF lasers
[AD-A137983] 12 p1819 N84-21859
Reliability analysis of multi-components systems
[AD-A138013] 12 p1824 N84-21890
Observations of VLF transmitter-induced depletions of inner zone electrons
[AD-A137982] 12 p1847 N84-22042

Calculations of misfit dislocation and dangling bond densities in abrupt Hg sub (1-x) Cd sub x Te heterojunctions
[AD-A138241] 12 p1914 N84-22467
Chemical deposition of SiO2 on InP
[AD-A138355] 12 p1914 N84-22472
Three-dimensional, two-phase supersonic nozzle flows
[AD-A138649] 13 p1926 N84-22538
Environmental qualification tests, signal conditioning unit, SD802 materials experiment
[AD-A138910] 13 p1987 N84-22897
Pulsed D2-F2 chain-laser damage to coated window and mirror components
[AD-A138911] 13 p1995 N84-22950
Certification vibration tests, SD802 materials experiment
[AD-A138547] 13 p2001 N84-22982
On the rate of energy input in thermal solar flares
[AD-A138345] 13 p2092 N84-23548
Quenchings and outbursts of extragalactic radio sources: Nine years of 3.3-mm measurements and comparisons with centimeter-wave variations
[AD-A138233] 13 p2092 N84-23550
Electron energy deposition in the middle atmosphere
[AD-A139122] 14 p2175 N84-24032
Thermal and nonthermal phenomena in solar flare loops at 20 cm wavelength and in X-rays
[NASA-CR-173429] 14 p2252 N84-24522
Space environment effects on spacecraft materials (M0003) 15 p2272 N84-24645
Summary of environmentally induced electrical discharges on the P78-2 (SCATHA) satellite
[AD-A140077] 15 p2282 N84-24705
Auger characterization of new and aged dispenser cathode surfaces
[AD-A140754] 17 p2663 N84-26988
Deactivation of higher vibrational levels of HF by F atoms
[AD-A140853] 17 p2673 N84-27034
LCAP2 (Linear Controls Analysis Program). Volume 2: Interactive LCAP2 user's guide
[AD-A141145] 18 p2924 N84-28542
On-orbit performance of LIPS gallium arsenide solar cell experiment 19 p3045 N84-29319
LCAP2 (Linear Controls Analysis Program). Volume 3: Source code description
[AD-A141386] 19 p3075 N84-29512
LCAP2 (Linear Control Analysis Program). Volume 1: Batch LCAP2 user's guide
[AD-A141486] 19 p3076 N84-29517
Multi-shaker random mode testing
[AD-A142094] 19 p3089 N84-29608
Electrostatic filtration of N2O4 for removal of solid and vapor contaminants 20 p3138 N84-29922
Automatic digital battery cell capacitance measurements
[AD-A143143] 21 p3392 N84-31523
DC wiring system grounding and ground fault protection issues for central station photovoltaic power plants 22 p3584 N84-32695
DC (Direct-Current) partial-discharge-environmental screening of space TWTs (Traveling Wave Tubes)
[AD-A143230] 22 p3586 N84-32710
A determination of the charge state of energetic magnetospheric ions by the observation of drift echoes
[AD-A143181] 22 p3623 N84-32954
Tricresyl phosphate retention by bearing retainer and reservoir materials
[AD-A143842] 23 p3724 N84-33598
Separator qualification for aerospace nickel-cadmium cells 23 p3737 N84-33682
Introduction to simulation of upper atmosphere oxygen satellite exposed to atomic oxygen in low Earth orbit 24 p3863 N84-34479
A facility for investigating interactions of energetic atomic oxygen with solids 24 p3863 N84-34481
Atomic beam system for laboratory simulation of upper atmosphere oxygen atom impact on STS surfaces 24 p3863 N84-34485

AEROSPACE CORP., LOS ANGELES, CALIF.
Laser-induced fluorescence spectroscopy for improved chemical analysis
[DE84-000629] 04 p0494 N84-13243
A review of SCATHA satellite results: Charging and discharging 08 p1115 N84-17254
Laboratory and space measurements of materials
[AD-P002113] 16 p2523 N84-26199
Summary of experimental results
[AD-P002126] 16 p2525 N84-26212
MIL-STD-1750A as a spaceborne instruction set architecture
[AD-P003554] 21 p3334 N84-31158

AEROSPACE CORP., WASHINGTON, D. C.
Electrochemical-Storage-Systems Program summary
[DE83-011254] 01 p0075 N84-10493
Energy technology characterizations handbook: Environmental pollution and control factors, third edition
[DOE/EP-0093] 16 p2511 N84-26117

AEROSPACE ENGINEERING OFFICE, ZURICH (SWITZERLAND).
On differential sensitivity analysis of structural systems
[REPT-29.4.155/NT] 07 p1017 N84-16596

AEROSPACE MEDICAL DIV. AEROSPACE MEDICAL RESEARCH LABS. (5570TH), WRIGHT-PATTERSON AFB, OHIO.
Horizontal diplopia thresholds for head-up displays
[AD-A141965] 20 p3129 N84-29872
Crest: Crew escape technologies for the 1990's 20 p3141 N84-29944

AEROSPACE MEDICAL RESEARCH LABS., WRIGHT-PATTERSON AFB, OHIO.
Preliminary investigation of variation in some dark adaptation aspects for possible relevance to military helicopter aircrew
[AD-A130231] 01 p0113 N84-10733
Bibliography of research reports and publications issued by the Toxic Hazards Division, 1957-1982
[AD-A133637] 05 p0713 N84-14672
Bone mineral analysis of rat vertebrae following space flight: COSMOS 1129
[AD-A133178] 07 p1042 N84-16757
Maze-solving as a performance measurement tool for human operations under time-stress
[AD-A133394] 07 p1050 N84-16799
A test of Fitts' law in two dimensions with hand and head movements
[AD-A133347] 07 p1051 N84-16810
The C-squared system: A general-purpose neuron network model
[AD-A136191] 09 p1304 N84-18524
Cryomicrotome applications: Techniques for the study of skeletal materials
[AD-A137010] 10 p1545 N84-20130
Conceptual framework for the development of workload metrics in sustained operations 11 p1696 N84-21063
The U.S. Air Force neurophysiological workload test battery: Concept and validation 11 p1696 N84-21064
Behavioral and subjective workload metrics for operational environments 11 p1696 N84-21065
Laboratory studies of aircrew chemical protective ensemble: Effects on pilots' performance 11 p1697 N84-21066
Human strength capabilities for the operation of parachute ripcords and riser releases
[AD-A138328] 12 p1868 N84-22174
The effect of haze on an operator's visual field and his target detection performance
[AD-A138330] 13 p2020 N84-23099
Effects of a negative G strap on restraint dynamics and human impact response
[AD-A138642] 13 p2024 N84-23121
The effects of Gx, Gy and Gz forces on cone mesopic vision
[AD-A139498] 14 p2185 N84-24092
Optical and human performance evaluation of HUD (Head-Up Display) systems design
[AD-A140601] 17 p2588 N84-26587
Measurement of HUD (Head-Up Display) optical quality
[AD-P003158] 17 p2588 N84-26589
Optical interactions of aircraft windscreens and HUDs (Head-Up Displays) producing diplopia
[AD-P003159] 17 p2588 N84-26590
Estimating detection range and range loss looking through windshields and Head-Up Displays
[AD-P003161] 17 p2588 N84-26592
Direct performance assessment of HUD (Head-Up Display) display systems using contrast sensitivity
[AD-P003162] 17 p2589 N84-26593
Future development trends for Head-Up Displays
[AD-P003164] 17 p2589 N84-26595
Visual effects of F-16 Canopy/HUD (Head-Up Display) integration
[AD-P003221] 17 p2595 N84-26634
Optical effects of F-16 Canopy-HUD (Head-Up Display) integration
[AD-P003222] 17 p2595 N84-26635
Visual perception through windscreens: Effects of minor occlusions and haze on operator performance
[AD-P003223] 17 p2596 N84-26636
Voice communication and positive pressure breathing in noise
[AD-A141303] 18 p2830 N84-27965
Motion simulation with a G-seat system: Sensory and performance mechanisms
[AD-P003267] 18 p2907 N84-28432
Criteria for selecting subjects for the assessment of advanced crew system concepts
[AD-P003354] 18 p2912 N84-28470
Hydrazine toxicology: Impact on safety and health in military aviation 22 p3631 N84-33013

AEROSPATIALE ETABLISSEMENT DES MUREAUX (FRANCE).
The effect of the space environment on composite materials (A0138-9) 15 p2272 N84-24641

AEROSTRUCTURES, INC., ARLINGTON, VA.
Four new capabilities in NASTRAN for dynamic and aeroelastic analyses of rotating cyclic structures 22 p3611 N84-32876

AEROTHERM ACUREX CORP., MOUNTAIN VIEW, CALIF.
Development of an impact- and solvent-resistant thermoplastic composite matrix
[NASA-CR-172285] 12 p1789 N84-21668
Aerodynamic heating computations for projectiles. Volume 1: In-depth heat conduction modifications to the ABRES shape change code (BRLASCC)
[AD-A143252] 22 p3531 N84-32359
Aerodynamic heating computations for projectiles. Volume 2: Swept wing calculations using the planar version of the ABRES shape change code (PLNRASCC)
[AD-A143253] 22 p3532 N84-32360
Aerodynamic heating computations for projectiles. Volume 3: BRL interactive plotting program (BRLINPLOT)
[AD-A143254] 22 p3532 N84-32361

AGOURON INST., LA JOLLA, CALIF.
Computer simulation of protein systems 10 p1559 N84-20214

AGRICULTURAL AND TECHNICAL COLL. OF NORTH CAROLINA, GREENSBORO.
Laboratory discharge studies of a 6 V alkaline lantern-type battery Eveready Energizer no. 526, under various ambient temperatures (-15 deg C and + 22 deg C) and loads (30 omega and 60 omega) 18 p2800 N84-27772
A versatile structure for GAS payloads 18 p2801 N84-27775

AGRICULTURAL RESEARCH CENTER, BELTSVILLE, MD.
Calcium modulation of plant plasma membrane-bound ATPase activities 02 p0263 N84-11723
Information content of data from the LANDSAT 4 Thematic Mapper (TM) and multispectral scanner (MSS)
[E84-10034] 04 p0551 N84-13628
Comparison of the information content of data from the LANDSAT-4 Thematic Mapper and the Multispectral Scanner 20 p3215 N84-30420

AGRICULTURAL RESEARCH SERVICE, BELTSVILLE, MD.
Aircraft remote sensing of soil moisture and hydrologic parameters, Taylor Creek, Florida, and Little River, Georgia, 1979 data report
[E84-10010] 02 p0236 N84-11548
Comparison of the information content of data from the LANDSAT 4 Thematic Mapper and the multispectral scanner
[E84-10081] 08 p1173 N84-17641

AGRICULTURAL RESEARCH SERVICE, PEORIA, ILL.
Vegetable Oil as Diesel Fuel: Seminar 3
[PB84-151323] 14 p2133 N84-23782

AGRICULTURAL RESEARCH SERVICE, WESLACO, TEX.
Increase of cold tolerance in cotton plant (Gossypium hirsutum L.) by mepiquat chloride
[E84-10088] 10 p1521 N84-19959
Reflectance measurements of cotton leaf senescence altered by mepiquat chloride
[E84-10089] 10 p1521 N84-19960

AIR COMMAND AND STAFF COLL., MAXWELL AFB, ALA.
IBM's token-ring LAN (Local-Area Network): A base-level communications solution
[AD-A143446] 22 p3638 N84-33063
Determination of factors affecting performance and productivity in an engineering/design environment
[AD-A143315] 22 p3669 N84-33252
Matrix management in DoD: An annotated bibliography
[AD-A143316] 22 p3669 N84-33253
Implementing automated information systems in the Air Force
[AD-A143398] 22 p3674 N84-33288
Managing microcomputers: A survival kit for functional managers
[AD-A144006] 23 p3833 N84-34316

AIR-EQUIPEMENT, ASNIERES (FRANCE).
Proceedings of the United States Air Force and Tri-Service Wind Energy Workshop and Conference
[AD-A130697] 01 p0103 N84-10666

AIR FORCE ACADEMY, COLO.
Experimental measurements of wake characteristics of low aspect-ratio delta and flapped-plate planforms
[AD-A130398] 01 p0004 N84-10026

Stability of rat brain glutamine synthetase to oxygen toxicity (oxygen at high pressure)
[AD-A131049] 01 p0112 N84-10725
Limited performance and flying qualities validation of the SGM 2-37 powered sailplane
[AD-A131445] 02 p0178 N84-11165
Airborne laboratory measurement of aircraft performance and stability and control for light aircraft. Supplement
[AD-A131457] 02 p0181 N84-11179
Experimental aerodynamic characteristics of missiles with square cross sections
[AD-A132278] 04 p0489 N84-13215
A study of the CH2NO2 radical using a multiconfigurational self-consistent field approach
[AD-A133815] 05 p0648 N84-14262
Report of the Faculty Working Group on Computers
[AD-A132706] 05 p0729 N84-14784
When is an internal rotation a vibration?
[AD-A132974] 05 p0744 N84-14890
Wake characteristics and interactions of the Canard/wing lifting surface configuration of the X-29 forward-swept wing flight demonstrator
[AD-A133188] 06 p0783 N84-15126
An investigation of airfoil dynamic stall with large amplitude motions
[AD-A134230] 07 p0948 N84-16150
Air Force Academy Aeronautics Digest - Fall/Winter 1982
[AD-A135073] 08 p1099 N84-17145
Scale model testing for control system parameters of large structures
[AD-A135652] 09 p1273 N84-18313
Precision machining application and technology: An overview and perspective
[AD-A135988] 09 p1390 N84-19075
Theoretical chemical calculations on molecules of air force interest
[AD-A137203] 10 p1576 N84-20326
Pullout of a rigid insert adhesively bonded to an elastic half plane
[AD-A137859] 11 p1668 N84-20885
Bayesian reliability test plans for one-shot devices
[AD-A138234] 12 p1896 N84-22350
Research into the thermal decomposition of selected energetic material candidates (Project order ATL-2-094)
[AD-A138730] 13 p1966 N84-22770
Proceedings of the 1983 Symposium on Military Space Communications and Operations
[AD-A135021] 14 p2137 N84-23809
Turbofan engine technology evaluation system, user's guide
[AD-A140781] 17 p2609 N84-26704
United States Air Force Academy, Department of Chemistry research: AY 1982-83
[AD-A141015] 18 p2808 N84-27828
Proceedings of the 9th Symposium on Psychology in the Department of Defense
[AD-A141043] 18 p2902 N84-28403
Evaluation of the BCT (Basic Cadet Training) paraprofessional counselor training at the United States Air Force Academy
[AD-P003244] 18 p2903 N84-28411
A summary of the psychological effects of tactical nuclear warfare
[AD-P003256] 18 p2905 N84-28423
Expectations, job perceptions and disconfirmation among Air Force Academy graduates
[AD-P003259] 18 p2906 N84-28426
Changes in attitudes toward women at the Air Force Academy
[AD-P003261] 18 p2906 N84-28428
Management information systems: A need for human factors
[AD-P003313] 18 p2909 N84-28452
Leadership, managership, and computers in today's Air Force
[AD-P003351] 18 p2912 N84-28468
Interactions of motion perception with pattern perception
[AD-P003363] 18 p2913 N84-28476
Nuclear magnetic resonance studies of molten salts
[AD-A141751] 19 p2968 N84-28935
MINDO/3 and MNDO calculations for nitro compounds
[AD-A141727] 19 p3101 N84-29698
Air Force Academy Aeronautics Digest
[AD-A142399] 20 p3125 N84-29649

AIR FORCE ARMAMENT LAB., EGLIN AFB, FLA.

Hypervelocity missile: Based on the concept of aircraft/missile integration for maximum firepower
03 p0315 N84-12058
Project DELUGE: The development of a Holloman high speed test track heavy rainfield
[AD-A134810] 08 p1108 N84-17205
Project DELUGE: A proposed mathematical model for the Holloman AFB test track simulated rainfield
[AD-A134891] 08 p1108 N84-17207
Contracting initiative: Best proposal for price
[AD-P002782] 13 p2055 N84-23329
Two-step industrial preparedness planning: Balancing funds and production capability
[AD-P002802] 13 p2058 N84-23348
MIL-STD-1760 development program
[AD-P003526] 21 p3330 N84-31130

AIR FORCE AVIONICS LAB., WRIGHT-PATTERSON AFB, OHIO.

Network communications for a distributed avionics system 06 p0771 N84-15052

AIR FORCE BUSINESS RESEARCH MANAGEMENT CENTER, WRIGHT-PATTERSON AFB, OHIO.

Proceedings of the Federal Acquisition Research Symposium with Theme: Government, Industry and Academe: Synergism for Acquisition Improvement
[AD-A137700] 13 p2049 N84-23293
DECISION TECHNOLOGY: The catalyst for acquisition improvement
[AD-P002755] 13 p2051 N84-23302
Cost accounting standards: A time for government and industry action
[AD-P002767] 13 p2053 N84-23314
Needed help for the Federal Acquisition Regulation Council
[AD-P002769] 13 p2053 N84-23316

AIR FORCE CONTRACT MANAGEMENT DIV., KIRTLAND AFB, N. MEX.

Material handling: A target for productivity improvement
[AD-P002829] 13 p2062 N84-23374

AIR FORCE ENGINEERING AND SERVICES CENTER, TYNDALL AFB, FLA.

The use of fuel additives to control plume opacity of turbine engine test cells
[AD-A130777] 01 p0053 N84-10339
Evaluation of NASA structural analysis (NASTRAN) to predict the dynamic response of reinforced concrete
[AD-A137244] 10 p1517 N84-19929
Aircraft generation equipment emissions estimator (AGEEE)
[AD-A136829] 10 p1532 N84-20031
FY85 technical objectives document
[AD-A137987] 12 p1917 N84-22493
Degradation of jet fuel hydrocarbons by aquatic microbial communities
[AD-A139791] 15 p2304 N84-24822
USAF aircraft windshield/canopy bird strikes
[AD-P003215] 17 p2594 N84-26628
Evaluation of selected commercial construction equipment for bomb damage repair
[AD-A140907] 17 p2611 N84-26714

AIR FORCE ENVIRONMENTAL TECHNICAL APPLICATIONS CENTER, SCOTT AFB, ILL.

Atlas of mean sea-level pressure
[AD-A130207] 01 p0107 N84-10697
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F. Cape Romanzof AFS, Alaska
[AD-A130206] 01 p0107 N84-10698
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F. Lemoore NAS, California
[AD-A130205] 01 p0108 N84-10699
Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F. Cape Lisburne Alaska AFS
[AD-A131194] 01 p0109 N84-10705
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F. Altus AFB, Oklahoma
[AD-A131613] 02 p0254 N84-11662
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F. Brize Norton RAF, United Kingdom
[AD-A131621] 02 p0254 N84-11663
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F. Grissom AFB, Indiana
[AD-A131198] 02 p0254 N84-11665
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F. Blytheville AFB, Arkansas
[AD-A131197] 02 p0254 N84-11666
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F. Ellsworth AFB, Rapid City, South Dakota
[AD-A131196] 02 p0255 N84-11667
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F. Indian Mountain AFS, Alaska
[AD-A131195] 02 p0255 N84-11668
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F. Carswell AFB, Texas
[AD-A131193] 02 p0255 N84-11669
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F. Cape Newenham AFS, Alaska
[AD-A131192] 02 p0255 N84-11670
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F. Tin City AFS, Alaska
[AD-A131191] 02 p0255 N84-11671
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F. Wertheim AAF, West Germany
[AD-A131190] 02 p0255 N84-11672
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F. Loring AFB, Maine
[AD-A131189] 02 p0256 N84-11673
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A, C, and D. Feucht AAF, West Germany
[AD-A131188] 02 p0256 N84-11674
An aid for using the Revised Uniform Summary of Surface Weather Observations (RUSSWOs)
[AD-A132186] 04 p0568 N84-13742
Eielson AFB, Alaska. Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F
[AD-A134198] 07 p1036 N84-16723
McGuire AFB, New Jersey. Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F
[AD-A134199] 07 p1036 N84-16724
Duluth, Duluth IAP, Minnesota. Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F
[AD-A134200] 07 p1037 N84-16725
King Salmon, Alaska. Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F
[AD-A134201] 07 p1037 N84-16726
Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F. Kitzingen, West Germany
[AD-A134202] 07 p1037 N84-16727
Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F. Adak NAS, Alaska
[AD-A134203] 07 p1037 N84-16728
Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F. Loring AFB, Maine
[AD-A134204] 07 p1037 N84-16729
Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F. Buckley ANGB, Colorado
[AD-A134205] 07 p1038 N84-16730
Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F. Elmendorf AFB, Alaska
[AD-A134206] 07 p1038 N84-16731
Limited Surface Observations Climatic Summary (LISOCS). Ft. Richardson, Alaska
[AD-A134207] 07 p1038 N84-16732
Limited Surface Observations Climatic Summary (LISOCS). Finthen AAF, West Germany
[AD-A134208] 07 p1038 N84-16733
Limited Surface Observations Climatic Summary (LISOCS). Colonel A J Bo Baker AAF, West Germany
[AD-A134209] 07 p1038 N84-16734
Limited Surface Observations Climatic Summary (LISOCS). Coleman AAF, West Germany
[AD-A134210] 07 p1038 N84-16735
Revised Uniform Summary of Surface Weather Observations (RUSSWO), parts A-F. Galena AFS, Alaska
[AD-A134211] 07 p1039 N84-16736
Uijongbu, Camp LaGuardia, Korea, Limited Surface Observations Climatic Summary (LISOCS)
[AD-A137573] 11 p1685 N84-20989
Fort Wainwright, Wainwright AAF, Alaska, Limited Surface Observations Climatic Summary (LISOCS)
[AD-A137574] 11 p1685 N84-20990
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Dyess AFB, Texas
[AD-A137575] 11 p1685 N84-20991
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Tonopah, Nevada
[AD-A137576] 11 p1685 N84-20992
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Part A-F: Phillips, Aberdeen, Maryland
[AD-A137577] 11 p1685 N84-20993
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Gela, Italy
[AD-A137578] 11 p1686 N84-20994

Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Dhahran, Saudi Arabia
[AD-A137580] 11 p1686 N84-20995
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Travis Air Force Base, California
[AD-A137581] 11 p1686 N84-20996
Limited Surface Observations Climatic Survey (LISOCS), Baumholder, West Germany
[AD-A137582] 11 p1686 N84-20997
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Andersen AFB, Guam
[AD-A137583] 11 p1686 N84-20998
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Zaragoza Air Base, Spain
[AD-A138281] 12 p1860 N84-22121
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Yokota Air Base, Japan
[AD-A137579] 15 p2372 N84-25229
Limited surface observations climatic summary (Lisocs). Schwaebisch Hall West Germany
[AD-A140242] 16 p2530 N84-26242
Limited surface obsevrations climatic summary (Lisocs). Bad Kreuznach, Germany (West)
[AD-A140243] 16 p2530 N84-26243
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Plattsburgh AFB, New York
[AD-A140244] 16 p2530 N84-26244
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: McGhee-Tyson Airport, Tennessee
[AD-A140245] 16 p2530 N84-26245
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F:: Upper Heyford RAF, UK
[AD-A140246] 16 p2530 N84-26246
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Woodbridge RAF, United Kingdom
[AD-A140247] 16 p2531 N84-26247
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Lakenheath, United Kingdom
[AD-A140248] 16 p2531 N84-26248
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Kadena AB, Japan
[AD-A140249] 16 p2531 N84-26249
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Bentwaters RAF United Kingdom
[AD-A140250] 16 p2531 N84-26250
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-E: Clark AFB, Philippines
[AD-A141228] 18 p2890 N84-28342
Revised Uniform Summary of Surface Weather Observations (RUSSWO). Parts A-F: Malmstrom AFB, Montana
[AD-A141229] 18 p2890 N84-28343

AIR FORCE FLIGHT DYNAMICS LAB., WRIGHT-PATTERSON AFB, OHIO.

Design and development of the multifunction flight control reference system 03 p0316 N84-12065
Proceedings of the Workshop on Multivariable Control Systems
[AD-A139050] 15 p2253 N84-24529
Multivariable control law theory 15 p2253 N84-24530
Multivariable control laws for the AFTI/F-16
[AFIT/GE/EE/83S-4] 15 p2253 N84-24531
Design of a complete multivariable digital flight control system
[AFIT/GE/EE/82D-18] 15 p2253 N84-24532
Digital multivariable tracker control laws for the C-141-A Starlifter aircraft
[AFIT/GE/EE/82D-47] 15 p2254 N84-24533
High-gain error actuated flight control systems for continuous linear multivariable plants
[AFIT/GAE/EE/82D-1] 15 p2254 N84-24534
Reconfigurable digital control laws for the A-7D DIGITAC 2 aircraft with failed primary control surfaces
[AFIT/GE/EE/82D-59] 15 p2254 N84-24535
APL/JHU free flight tests of the general purpose heat source module. Testing: 5-7 March 1984
[DE84-011065] 20 p3299 N84-30948

AIR FORCE FLIGHT TEST CENTER, EDWARDS AFB, CALIF.

Predicted and flight test results of the performance, stability and control of the space shuttle from reentry to landing 01 p0022 N84-10136
Approach and landing characteristics of the space shuttle orbiter Learned, Pt. 1 p 637-651 01 p0023 N84-10143
Flight test derived heating math models for critical locations on the orbiter during reentry 01 p0023 N84-10147
AFFTC overview of orbiter-reentry flight-test results 01 p0027 N84-10169
Hydraulic subsystems flight test handbook
[AD-A132633] 05 p0629 N84-14137
Electrical subsystems flight test handbook
[AD-A139783] 15 p2260 N84-24576
Stores weight and inertia system update: Cable attachment redesign, flexible length parameter calibration, data sheet revision
[AD-A141087] 19 p2963 N84-28781
High angle of attack test and evaluation techniques for the 1980s 24 p3847 N84-34399
F-16 and A-10 diffraction optics Head Up Display (HUD) flight test evaluation 24 p3849 N84-34411

AIR FORCE GEOPHYSICS LAB., HANSCOM AFB, MASS.

A study of cirriform clouds over eleven USSR stations
[AD-A130085] 01 p0107 N84-10693
An evaluation of an automatic cell detection and tracking algorithm
[AD-A130088] 01 p0107 N84-10694
Diagnosis of the comma cloud of 10 April 1979, abridged report
[AD-A130649] 01 p0108 N84-10701
Proceedings of the STIP (Study of Travelling Interplanetary Phenomena) Symposium on Solar Radio Astronomy, Interplanetary Scintillations and Coordination with Spacecraft
[AD-A130687] 01 p0165 N84-11087
SCATHA (Spacecraft charging at high altitudes) environmental atlas
[AD-A131456] 02 p0185 N84-11201
New techniques for absolute gravity measurements
[AD-A129285] 02 p0248 N84-11625
A balloon design for 9000 pounds at 90,000 feet: Recommendations based on heavy-load balloon history
[AD-A131987] 03 p0320 N84-12093
Preliminary data processing plan for the thermal plasma experiment on the HILAT satellite
[AD-A132017] 03 p0340 N84-12209
Orbiting geophysics laboratory experiment
[AD-A131950] 03 p0342 N84-12218
Properties of the neutral density and composition in the thermosphere
[AD-A131557] 03 p0407 N84-12665
Variability of atmospheric density in the middle atmosphere
[AD-A131985] 03 p0407 N84-12667
Wind-speed extremes in the Northern Hemisphere, 30 through 60 km
[AD-A132019] 03 p0410 N84-12682
Winds: Chapter 6, 1983 revision. Handbook of Geophysics and Space Environments
[AD-A132018] 03 p0410 N84-12683
Evaluation of automated imagery analysis algorithms for use in the three-dimensional nephanalysis model at AFGWC (Air Force Global Weather Central)
[AD-A131986] 03 p0410 N84-12686
Snow characterization instruments
[AD-A131984] 03 p0411 N84-12687
Absolute collisional excitation cross section measurements using crossed molecular beams
[AD-A132038] 03 p0432 N84-12830
Electron beam trajectory in a photometer field of view
[AD-A131949] 03 p0432 N84-12831
The far infrared sky survey experiment
[AD-A131966] 03 p0461 N84-13037
Air mass computer program for atmospheric transmittance/radiance calculation: FSCATM
[AD-A132108] 04 p0563 N84-13712
On the determination of the index of refraction of the atmosphere
[AD-A132107] 04 p0563 N84-13713
Overview of project Brazil Ionospheric Modification Experiment (BIME) 05 p0639 N84-14207
Plasma composition and structure characterization of an ionospheric barium cloud 05 p0640 N84-14213
Active experiments and single ion motion in the magnetotail 05 p0641 N84-14219
The gaseous and plasma environment around space shuttle
[AD-A133900] 05 p0643 N84-14231
A polarization diversity radar data processor
[AD-A134011] 05 p0666 N84-14382
Simulation and interpretation of polarization diversity radar spectral functions
[AD-A132622] 05 p0670 N84-14402
The conversion of off-vertical observations of total electron content into equivalent vertical-incidence values
[AD-A132624] 05 p0703 N84-14613
Systematics of the equatorward diffuse auroral boundary
[AD-A132897] 05 p0704 N84-14617
Time lapse simulation of interrelated weather conditions
[AD-A133999] 05 p0708 N84-14639
Meteorological sensors for battlefield weather support
[AD-A132623] 05 p0709 N84-14643
Tests of an inversion algorithm for spectrally resolved limb emission
[AD-A134128] 05 p0733 N84-14814
The revised AFGL (Air Force Geophysics Laboratory) Infrared Sky Survey Catalog
[AD-A134007] 05 p0763 N84-15005
Stratospheric determination of effective photodissociation cross sections for molecular oxygen: 191-204 nm
[AD-A134168] 07 p1034 N84-16706
The concepts of critical temperature and energy cutoff of ambient electrons in high voltage charging of spacecraft 08 p1119 N84-17275
Sheath ionization model of beam emissions from large spacecrafts
[AD-A137181] 10 p1448 N84-19463
Prediction of total electron content using the International Reference Ionosphere
[AD-A137136] 10 p1536 N84-20066
Analysis of AFGL aircraft icing data
[AD-A137197] 10 p1539 N84-20087
Dual maxwellian space plasma modeling by the logarithmic method
[AD-A137131] 10 p1585 N84-20387
Terrain variables improve modeling of Richardson numbers less than unity in the lower atmosphere
[AD-A137926] 11 p1671 N84-20906
Airglow morphology during an ionospheric heating experiment at Platteville, Colorado
[AD-A137869] 11 p1682 N84-20976
A computer code to calculate emission and transmission of infrared radiation through non-equilibrium atmospheres
[AD-A137162] 11 p1683 N84-20980
On the horizontal and vertical variability of the vertical turbulent eddy diffusion coefficients in the mesosphere
[AD-A137877] 11 p1687 N84-21002
Melting layer survey
[AD-A137911] 11 p1687 N84-21003
The use of interactive graphics processing in short-range terminal weather forecasting: An initial assessment
[AD-A137165] 11 p1687 N84-21004
Joint agency turbulence experiment: Environmental research paper
[AD-A137167] 11 p1687 N84-21005
Atmospheric transmittance/radiance: Computer code LOWTRAN 6. Supplement: Program listings
[AD-A137689] 11 p1706 N84-21123
Atmospheric transmittance/radiance: Computer code LOWTRAN 6
[AD-A137786] 11 p1707 N84-21126
COCHISE observations of Argon Rydberg emission from 2 to 16 micrometers
[AD-A137916] 11 p1732 N84-21296
Modeling climatology of areal coverage
[AD-A138276] 12 p1860 N84-22120
A new satellite instrument for yaw and pitch measurements
[AD-A138729] 13 p1937 N84-22599
F-layer ionization patches in the polar cap
[AD-A138633] 13 p2011 N84-23044
Observations of major stratospheric chlorine species
[AD-A138646] 13 p2011 N84-23045
Handbook of geophysics and space environments, Chapter 15, 1983 revision: Atmospheric temperature, density and pressure
[AD-A138846] 13 p2017 N84-23076
O-atoms yields from microwave discharges in N2O/Ar mixtures
[AD-A130429] 14 p2137 N84-23808
Development of a command control and communications system for light aircraft
[AD-A139474] 14 p2140 N84-23831
Seismo-acoustic effects of sonic booms on archeological sites, Valentine Military Operations Area
[AD-A139581] 14 p2146 N84-23862
A catalog of solar white-light flares, including their statistical properties and associated emissions, 1859 - 1962
[AD-A138645] 14 p2251 N84-24521
Proceedings of the Air Force Geophysics Laboratory Workshop on Natural Charging of Large Space Structures in Near Earth Polar Orbit
[AD-A134894] 16 p2521 N84-26185
Ionospheric characteristics: A review
[AD-P002101] 16 p2521 N84-26187
Charged particle effects on space systems
[AD-P002103] 16 p2522 N84-26189

The worst case charging environment
[AD-P002108] 16 p2522 N84-26194
Environmental interactions of polar orbiting satellites
[AD-P002110] 16 p2523 N84-26196
Shuttle Orbiter charging in polar Earth orbit
[AD-P002116] 16 p2524 N84-26202
Potential barriers and multiple roots in spacecraft charging
[AD-P002117] 16 p2524 N84-26203
High voltage solar array models and Shuttle tile charging
[AD-P002123] 16 p2525 N84-26209
Space systems environmental interactions technology program
[AD-P002125] 16 p2525 N84-26211
Questions that need to be answered
[AD-P002127] 16 p2525 N84-26213
Numerical simulation of thunderstorm gust fronts
[AD-A141214] 18 p2869 N84-28339
SNOW-ONE-A and B characterization measurements and data analysis
[AD-A141245] 18 p2890 N84-28345
Tactical visibility meter
[AD-A141286] 18 p2890 N84-28347
The Earth's radiation belts
[AD-A142673] 20 p3241 N84-30574
Prediction of slant wind shear with an offset tower observation system
[AD-A142676] 20 p3246 N84-30600
An assessment of interactive graphics processing in short-range terminal weather forecasting
[AD-A142706] 20 p3248 N84-30601
AFGL cloud modeling program: Annex
[AD-A143084] 21 p3447 N84-31872
Shuttle detached spacecraft
[AD-A143320] 22 p3541 N84-32417
A probabilistic model for predicting the duration of levels of electromagnetic transmission in falling snow: Environmental research papers
[AD-A143318] 22 p3577 N84-32655
A Gerdien condenser system for measuring stratospheric charged particle densities
[AD-A143317] 22 p3623 N84-32958
Composition alteration of stratospheric air due to sampling through a flow tube: Environmental research papers
[AD-A143319] 22 p3623 N84-32959
Seismic hazard study for selected sites in New Mexico and Nevada
[AD-A143392] 22 p3623 N84-32960
Experiments in objective aviation weather forecasting using upper-level steering
[AD-A143393] 22 p3625 N84-32971
Reactions of negative ions
[AD-A143793] 23 p3714 N84-33541
Handbook of geophysics and space environments. Chapter 16: Water vapor, precipitation, clouds and fog, revised
[AD-A144176] 24 p3934 N84-34901

AIR FORCE GLOBAL WEATHER CENTRAL, OFFUTT AFB, NEBRASKA.

Cloud forecast fields comparison test
[AD-A135556] 08 p1191 N84-17761
Air Weather Service model output statistics systems
[AD-A139129] 14 p2179 N84-24053

AIR FORCE HOSPITAL, LACKLAND AFB, TEX.

Psychological and biochemical effects of a stress management program
[AD-P003300] 18 p2909 N84-28447

AIR FORCE HUMAN RESOURCES LAB., BROOKS AFB, TEX.

Low altitude simulator training: A-10 aircraft
[AD-A130794] 01 p0016 N84-10106
Flying training R&D (Research and Development) at the Air Force Human Resources Laboratory
[AD-A130250] 01 p0116 N84-10752
Companion trainer aircraft: Concept test
[AD-A131378] 02 p0268 N84-11757
Real visual image compensation for head motion parallax effects as a function of object distance
[AD-A132915] 05 p0720 N84-14717
Low-level flight simulation: Vertical cues
[AD-A133612] 07 p1050 N84-16802
Human factors products: A one-act play with epilogue
[AD-A133354] 07 p1052 N84-16811
Hypothesis identification in the case of the missing cell
[AD-A134553] 07 p1063 N84-16895
Surface-attack mission simulation: Preliminary scenario evaluation
[AD-A135868] 09 p1259 N84-18219
Velocity control decision-making ability: Relationship to flying capability and experience
[AD-A136546] 09 p1363 N84-18901
Aircraft simulator: Multiple-cockpit combat mission trainer network
[AD-A137182] 10 p1432 N84-19363
Nonlinear prediction of head movements for helmet-mounted displays
[AD-A136590] 10 p1555 N84-20192
The measurement of C-5A aircrew performance
[AD-P003268] 18 p2907 N84-28433
Individual differences in learning rate
[AD-P003338] 18 p2911 N84-28462
Safety training priorities
[AD-A141711] 19 p3002 N84-29026
Validation of relative-time-spent rating scales
[AD-A144067] 23 p3812 N84-34169
Comparison of color versus black-and-white visual displays as indicated by bombing and landing performance in the 2B35 TA-4J flight simulator
[AD-A144674] 24 p3857 N84-34455

AIR FORCE HUMAN RESOURCES LAB., WILLIAMS AFB, ARIZ.

Pilot oriented performance measurement
[AD-P003450] 21 p3508 N84-32227
Training capabilities: The facility part of the equation
[AD-P003457] 21 p3510 N84-32234
Visual cueing effectiveness: Comparison of perception and flying performance
[AD-P003458] 21 p3510 N84-32235
Data base generation: Improving the state-of-the-art
[AD-P003470] 21 p3512 N84-32245
Fiber optic helmet mounted display: A cost effective approach to full visual flight simulation
[AD-P003482] 21 p3512 N84-32249
Training the multiple-aircraft combat environment
[AD-P003495] 21 p3514 N84-32261

AIR FORCE HUMAN RESOURCES LAB., WRIGHT-PATTERSON AFB, OHIO.

Simulated 3-dimensional computer graphics training display for air weapons controllers. Volume 2: Users guide
[AD-A141336] 19 p3075 N84-29510
Simulated 3-dimensional computer graphics training display for air weapons controllers, volume 1
[AD-A141347] 19 p3075 N84-29511

AIR FORCE INST. OF TECH., WRIGHT-PATTERSON AFB, OHIO.

Trends in shuttle entry heating from the correction of flight test maneuvers 01 p0023 N84-10146
A model to investigate losses and exchange ratios in large-scale air-to-air engagements
[AD-A131410] 02 p0178 N84-11166
Bank-to-turn control
[AD-A132491] 04 p0489 N84-13214
Computer-aided synthesis and design of monolithic microwave GaAs MESFET amplifiers
[AD-A132474] 04 p0525 N84-13452
Holographic optical elements with ultra-high spatial frequencies
[AD-A132355] 04 p0538 N84-13537
Wear during rubbing of a sintered metal powder body
[AD-A132354] 04 p0544 N84-13584
Formal techniques in the management of software design
[AD-A132569] 04 p0579 N84-13818
Interactive surface visualization using raster graphics
[AD-A132548] 04 p0579 N84-13819
Great sphere fibrations of manifolds
[AD-A132544] 04 p0588 N84-13888
A study of thick-target X-ray spectra using photonuclear reactions
[AD-A132543] 04 p0596 N84-13934
Electromyographic analysis of the peroneous longus during bicycle ergometry across work load and pedal type
[AD-A132550] 05 p0712 N84-14666
Control device manipulative behavior, arousal and performance during a compensatory tracking task
[AD-A133921] 05 p0713 N84-14670
The ability to process abstract information
[AD-A133794] 05 p0716 N84-14689
Ellipsoid algorithm variants in nonlinear programming
[AD-A132599] 05 p0735 N84-14826
A multiple ranking procedure adapted to discrete-event simulation
[AD-A133649] 05 p0740 N84-14860
Life cycle costing in a dynamic environment
[AD-A133023] 05 p0757 N84-14967
A Q-GERT analysis of the effect of improved automatic testing on F-16 aircraft availability
[AD-A134280] 07 p0945 N84-16128
Aircraft avionic system maintenance cannot duplicate and Retest-OK analytical source analysis
[AD-A134449] 07 p0945 N84-16129
An exploratory study of the use of an inexpensive cordless telephone as a part of a data communications link
[AD-A134228] 07 p0992 N84-16432
Reliability growth programs of major weapon systems in the aeronautical systems division
[AD-A134380] 07 p1013 N84-16571
Analysis of tutored videotape instructional delivery system
[AD-A133441] 07 p1050 N84-16800
Microcomputer software system development: Suggested revisions to MIL-STD-1521A for cost-effective acquisition of custom software through software engineering
[AD-A134363] 07 p1055 N84-16830
A method for designing computer support documentation
[AD-A134466] 07 p1055 N84-16831
Information needs and system specifications for the B-1B executive information system
[AD-A134424] 07 p1085 N84-17054
Estimating the cost of composite material airframes using the Rand Corporation Development and Procurement Costs of Aircraft parametric model (DAPCA III)
[AD-A134993] 08 p1095 N84-17120
Preventive maintenance on space systems
[AD-A134955] 08 p1107 N84-17198
An investigation of non-extravehicular activity (Non-EVA) on-orbit maintenance support concepts for orbiting systems
[AD-A134957] 08 p1107 N84-17199
Photochemical energy storage (photosensitized isomerization of norbornadiene to quadricyclane by copper (I) complexes)
[AD-A135363] 08 p1180 N84-17687
Kinetic energy in the northern hemisphere during the FGGE (First GARP Global Experiment) year
[AD-A135382] 08 p1190 N84-17759
Possible tidal modulation of the Indian monsoon onset
[AD-A135441] 08 p1191 N84-17760
Analysis of the pilot conversion process for the Air Force T-46A jet trainer aircraft
[AD-A134404] 08 p1203 N84-17845
A reliability and failure mode analysis of celestial training device microcomputers employed by SAC and MAC
[AD-A135003] 08 p1209 N84-17885
Selection of noisy sensors and actuators for regulation of linear systems
[AD-A135442] 08 p1216 N84-17931
Derivations of a prime ring which satisfy a polynomial identity
[AD-A135435] 08 p1220 N84-17963
An approach to the design of a management information system: Development procedure for the Indonesian defense logistics staff
[AD-A134974] 08 p1240 N84-18108
Preventive maintenance intervals for components of the F-15/F100 aircraft engine
[AD-A135637] 09 p1249 N84-18156
Experimental investigation of dynamic stall
[AD-A135846] 09 p1252 N84-18172
An investigation of the effects of discrete wing tip jets on wake vortex roll up
[AD-A135872] 09 p1252 N84-18173
The effect of periodic overloads on flight-by-flight fatigue crack growth rates
[AD-A136407] 09 p1255 N84-18192
A cost prediction model for electronic systems flight test costs
[AD-A135598] 09 p1255 N84-18195
Multivariable control laws for the AFTI/F-16
[AD-A135870] 09 p1258 N84-18210
Comparison of the longitudinal flying qualities of an optimal pilot model, a ground-based simulator and an airborne simulator
[AD-A135853] 09 p1259 N84-18218
Development and application of optimization techniques for composite laminates
[AD-A135832] 09 p1276 N84-18330
Mass spectrometry detection of neutral dissociative fragments
[AD-A135847] 09 p1279 N84-18351
Study of the characteristics of high pressure proportional counters for the detection of radioactive gases
[AD-A135803] 09 p1280 N84-18356
The high temperature viscoplastic fatigue behavior of IN-100 using the Bodner-Partom flow law
[AD-A135867] 09 p1282 N84-18375
Accuracy and speed of response to different voice types in a cockpit voice warning system
[AD-A135595] 09 p1301 N84-18503
Measuring accurately single-phase sinusoidal and non-sinusoidal power
[AD-A136408] 09 p1307 N84-18541
Implicit numerical solution for a normal shock
[AD-A135855] 09 p1314 N84-18590
A sine-wave grating controller for vision testing
[AD-A135871] 09 p1318 N84-18610

Reanalysis methods for structures with laser induced damage
[AD-A135874] 09 p1322 N84-18638
The usefulness of impact dampers for space applications
[AD-A135895] 09 p1332 N84-18697
Airborne penetration of radioactive clouds
[AD-A135848] 09 p1361 N84-18894
Abstract type oriented dynamic vertical migration
[AD-A135840] 09 p1367 N84-18926
An image processing language
[AD-A135865] 09 p1368 N84-18928
Multiyear subcontractor selection criteria analysis
[AD-A135838] 09 p1397 N84-19126
Q-GERT model of the contracting cycle
[AD-A135839] 09 p1398 N84-19127
The automated information retrieval system in the field of science and science Policy--AWION
[AD-A135585] 09 p1404 N84-19174
Automated storage and retrieval systems--a consolidation of guidance for project management and implementation
[AD-A135571] 09 p1404 N84-19175
A study of the aerodynamic interference effects during aerial refueling
[AD-A136895] 10 p1420 N84-19290
Investigation of effects contributing to dynamic stall using a momentum-integral method
[AD-A136897] 10 p1421 N84-19291
A wind tunnel investigation to determine dominant forebody strake design characteristics for an F-15 equipped with conformal fuel tanks
[AD-A136912] 10 p1421 N84-19292
The effect of constant versus oscillatory rates on dynamic stability derivatives
[AD-A136913] 10 p1421 N84-19293
Continued experimental investigation of dynamic stall
[AD-A136920] 10 p1421 N84-19294
The effect of trailing vortices on the production of lift on an airfoil undergoing a constant rate of change of angle of attack
[AD-A136921] 10 p1421 N84-19295
An investigation of new possibilities to simplify the standard supersonic area rule
[AD-A137018] 10 p1422 N84-19297
Suboptimal missile evasion through a sensitivity analysis of proportional guidance to target evasion maneuvers
[AD-A136803] 10 p1428 N84-19338
An open loop missile evasion algorithm for fighters
[AD-A136834] 10 p1428 N84-19339
Minimum time turns with direct sideforce
[AD-A136958] 10 p1429 N84-19342
Dynamic characteristics of a jet engine test facility air supply
[AD-A136910] 10 p1433 N84-19365
Orbital motion of a freely coning solar sail
[AD-A136794] 10 p1435 N84-19381
Changing gain versus area of stability for a scalar, modal controller
[AD-A136804] 10 p1436 N84-19385
A model for evaluation of satellite population management alternatives
[AD-A136886] 10 p1436 N84-19386
Nonlinear modeling and initial condition estimation for identifying the aerothermodynamic environment of the Space Shuttle Orbiter
[AD-A136928] 10 p1438 N84-19391
Decentralized control of a large space structure using direct output feedback
[AD-A136781] 10 p1448 N84-19464
The effect of mass and stiffness changes on the damping factor in a large space structure as repreeented by the CSDL 2 model
[AD-A136984] 10 p1449 N84-19465
Discontinuous low thrust orbit transfer
[AD-A136908] 10 p1451 N84-19474
Strength and thermal shock resistance of SiC-BN composites
[AD-A136891] 10 p1452 N84-19485
Sustained load crack growth in Inconel 718 under non-isothermal conditions
[AD-A136925] 10 p1460 N84-19535
Evaluation of fatigue-creep crack growth in an engine alloy
[AD-A136956] 10 p1460 N84-19536
Roughness effects on compressor blade performance in cascade at high Reynolds number
[AD-A136896] 10 p1492 N84-19755
An analytical study of the effects of surface roughness on a compressible turbulent boundary layer
[AD-A136911] 10 p1492 N84-19756
An experimental study of thrust augmenting ejectors
[AD-A136929] 10 p1492 N84-19757
Effects of multiple cylinders on the formation of Von Karman vortex streets
[AD-A136930] 10 p1492 N84-19758
Effects of mean flow on the dynamic characteristics of fluid transmission lines
[AD-A136959] 10 p1492 N84-19759
Predicting the onset of turbulence in the presence of a pressure gradient
[AD-A136980] 10 p1493 N84-19760
A study of annular diffuser flow using a photon-correlating laser Doppler anemometer
[AD-A137019] 10 p1493 N84-19762
Numerical determination of the effects of boundary conditions on the instability of composite panels with cutouts
[AD-A136772] 10 p1517 N84-19931
A variational method for calculating the natural frequencies and mode shapes of a cantilevered open cylindrical shell
[AD-A136901] 10 p1517 N84-19932
Transition of corner cracks at holes into through-the-thickness cracks
[AD-A136922] 10 p1517 N84-19933
Toward an interpersonal paradigm for superior-subordinate communication
[AD-A135863] 10 p1551 N84-20186
Adaptive grid generation for numerical solution of partial differential equations
[AD-A136985] 10 p1570 N84-20289
Hybrid vehicle simulation
[AD-A136950] 10 p1594 N84-20445
Design of longitudinal control laws for the X-29A backup analog flight control system
[AD-A137814] 11 p1619 N84-20601
Global positioning system satellite selection evaluation for aided inertial navigation
[AD-A138070] 12 p1767 N84-21527
Extraction of rotation information from a simulated fiber optic gyro using amplitude modulation
[AD-A138092] 12 p1767 N84-21528
Celestial pattern recognition allowing autonomous earth-surface or deep-space positioning
[AD-A138115] 12 p1768 N84-21529
Evaluation of instrument landing system DDM (Difference in Depth of Modulation) calibration accuracies
[AD-A138301] 12 p1768 N84-21533
General Purpose Bus Interface Unit (GPBIU) system test software design
[AD-A138005] 12 p1770 N84-21543
A study of optimal computer network architecture for digital avionics systems
[AD-A138151] 12 p1770 N84-21545
Multiple input - multiple output flight control design with highly uncertain parameters; application to the C-135 aircraft
[AD-A138011] 12 p1772 N84-21554
Development and flight test evaluation of an analytical model of the air-to-air tracking task
[AD-A138058] 12 p1772 N84-21555
Multivariable digital flight control design for the FPCC (Flight propulsion control coupling) aircraft
[AD-A138093] 12 p1772 N84-21556
Evaluation of a digital flight controller for a flexible-fighter aircraft
[AD-A138269] 12 p1772 N84-21558
Robust flight controllers
[AD-A138425] 12 p1773 N84-21560
Effect of data latency upon missile accuracy
[AD-A138048] 12 p1778 N84-21600
The development of computer routines to perform a comprehensive analysis of spectroscopic data from diatomic molecules
[AD-A138063] 12 p1791 N84-21680
Pulsed generation of singlet delta oxygen (O2(1 delta)) via ozone photolysis
[AD-A138195] 12 p1792 N84-21684
Spectroscopy and kinetics of lead oxide chemiluminescence
[AD-A138250] 12 p1792 N84-21687
A recursive linear predictive vocoder
[AD-A138008] 12 p1805 N84-21770
Limited continuous speech recognition by phoneme analysis
[AD-A138021] 12 p1805 N84-21771
Pattern nulling by reflector shaping
[AD-A138049] 12 p1806 N84-21773
Buried antenna analysis at VHF. Part 1: The buried horizontal electric dipole
[AD-A138068] 12 p1806 N84-21774
Accuracy estimate for radar cross section measurements of targets modelled by multiple independent scatterers in constant clutter
[AD-A138075] 12 p1806 N84-21775
Protocol standards and implementation within the digital engineering laboratory computer network (DELNET) using the universal network interface device (UNID). Part 2
[AD-A138119] 12 p1806 N84-21777
Development of a communications Front End Processor (FEP) for the VAX-11/780 using an LSI-11/23
[AD-A138152] 12 p1807 N84-21778
Clutter cancellation techniques for use in a space-based radar system
[AD-A138467] 12 p1808 N84-21784
A microstrip time delay circuit on barium tetratitanate
[AD-A138026] 12 p1811 N84-21807
Experimental investigation of switched-capacitor circuits and systems
[AD-A138034] 12 p1811 N84-21808
Series detonator initiation system
[AD-A138101] 12 p1811 N84-21809
An automatic sine-wave grating controller to be used for contrast sensitivity testing
[AD-A138294] 12 p1812 N84-21811
Single circuit board implementation of a Digitally Compensated SAW Oscillator (DCSO)
[AD-A138313] 12 p1812 N84-21812
Repetitive switching for an electromagnetic rail gun
[AD-A138360] 12 p1812 N84-21814
Printed circuit board layout by microcomputer
[AD-A138427] 12 p1813 N84-21816
Implementation and evaluation of two design concepts of the passive ring resonator laser gyroscope
[AD-A138064] 12 p1818 N84-21851
Dependence of holographic grating formation upon interference pattern orientation in bismuth silicon oxide
[AD-A138099] 12 p1818 N84-21852
Laser velocimeter optical traverse scheme: An investigation of a proposed optical scanning technique for Arnold Engineering and Development Center's four-foot transonic wind tunnel
[AD-A138168] 12 p1818 N84-21853
Analysis of laser spot quality
[AD-A138056] 12 p1820 N84-21861
Microwave excitation of a CO2 laser
[AD-A138057] 12 p1820 N84-21862
Study of a tunable CO2/N2O medium pressure waveguide laser
[AD-A138078] 12 p1820 N84-21863
Physiological data acquisition system and motion sickness prevention trainer
[AD-A138361] 12 p1865 N84-22153
The application of a superconducting quantum interference device second-order gradiometer to measure visual evoked responses
[AD-A138407] 12 p1865 N84-22156
PSC, a programmable software controller for a multiple bladder, sequentially inflatable g-suit
[AD-A138069] 12 p1868 N84-22172
Study of finite word length effects in some special classes of digital filters
[AD-A138062] 12 p1877 N84-22232
CPESIM II: A computer system simulation for computer performance evaluation use
[AD-A138116] 12 p1877 N84-22233
User-friendly interface to the Roth relational database
[AD-A138153] 12 p1877 N84-22234
Universal disk controller for microcomputers
[AD-A138333] 12 p1877 N84-22235
Natural language processor as a universal front end to expert systems
[AD-A138455] 12 p1878 N84-22236
Effects of computer architecture on FFT (Fast Fourier Transform) algorithm performance
[AD-A138465] 12 p1878 N84-22237
A syntax directed editor environment
[AD-A138009] 12 p1879 N84-22248
Sire: An automated software development environment
[AD-A138022] 12 p1879 N84-22249
Interactive computer graphics for system analysis
[AD-A138025] 12 p1879 N84-22250
ADA1: An ADA subset compiler for the AFIT syntax directed programming environment
[AD-A138027] 12 p1880 N84-22251
Exploration of dose-response techniques with some applications to a simulation problem
[AD-A138029] 12 p1880 N84-22252
A generator of recursive descent parsers for LL(k) languages
[AD-A138061] 12 p1880 N84-22253
A natural language interface for a PROLOG database
[AD-A138071] 12 p1880 N84-22254
An approach for multilayer PCB (Printed circuit boards) design with automatic routing
[AD-A138072] 12 p1880 N84-22255
Detailed design and implementation of a multiprogramming operating system for sixteen-bit microprocessors
[AD-A138078] 12 p1880 N84-22256
Detailed design and implementation of a multiprogramming operating system for sixteen-bit microprocessors
[AD-A138083] 12 p1880 N84-22257

Efficient computer architectures for computing discrete Fourier transforms
[AD-A138109] 12 p1881 N84-22258

An automated computer communication network protocol verification system
[AD-A138160] 12 p1881 N84-22260

Grid-based line drawing quantization
[AD-A138194] 12 p1881 N84-22261

Placing hidden surface removal within the CORE graphics standard: An example
[AD-A138239] 12 p1882 N84-22266

Robust multivariable controller design via implicit model-following methods
[AD-A138309] 12 p1882 N84-22268

Implementation and evaluation of a core graphics system on a VAX 11/780 computer with a UNIX operating system
[AD-A138406] 12 p1882 N84-22271

A microcomputer based system for analysis of line drawing quantization techniques
[AD-A138413] 12 p1883 N84-22272

Design and implementation of an Input/Output interface protocol for the INTEL 432/670 computer system
[AD-A138429] 12 p1883 N84-22273

A candidate programming language
[AD-A138433] 12 p1883 N84-22274

PLAFST programmable logic array from state table
[AD-A138466] 12 p1883 N84-22275

Grid-based line drawing quantization
[AD-A138503] 12 p1884 N84-22278

Continued development of a universal network interface device using the Intel 8086 and 8089 16-bit microprocessors
[AD-A138118] 12 p1891 N84-22319

Protocol standards and implementation within the digital engineering laboratory computer network (DELNET) using the Universal Network Interface Device (UNID), part 1
[AD-A138481] 12 p1892 N84-22320

Parameter estimation for the four parameter beta distribution
[AD-A138062] 12 p1893 N84-22333

Variance reduction techniques with applications
[AD-A138074] 12 p1894 N84-22334

Integral green's function solutions to differential equations
[AD-A138077] 12 p1894 N84-22335

Applications of multivariate statistical techniques for computer performance evaluation
[AD-A138268] 12 p1894 N84-22336

Generalized inverses of matrices and its applications
[AD-A138274] 12 p1894 N84-22337

Investigation of the numerical method of moments for digital computer determination of Green's functions
[AD-A136374] 12 p1894 N84-22339

Robust minimum distance estimation of the 3 parameter lognormal distribution
[AD-A138007] 12 p1896 N84-22349

Investigation of sheath phenomena in electronegative glow discharges
[AD-A138100] 12 p1898 N84-22359

Discrete elements method of neutral particle transport
[AD-A138060] 12 p1902 N84-22384

Pointing and tracking of particle beams
[AD-A138311] 12 p1902 N84-22385

Passive infrared ranging
[AD-A138066] 12 p1907 N84-22424

Deconvolution of aberrations in optical systems
[AD-A138096] 12 p1907 N84-22425

Image filtering with Boolean and statistical operators
[AD-A138421] 12 p1908 N84-22428

Electrical, luminescence and SIMS (Secondary ion mass spectroscopy) characterization of carbon implanted vapor phase epitaxial gallium arsenide
[AD-A138094] 12 p1913 N84-22464

The design and layout of a complementary metal oxide semiconductor silicon on sapphire cell library
[AD-A138310] 12 p1914 N84-22470

Measuring the temperature coefficients of the elastic constants of indium phosphide
[AD-A138454] 12 p1915 N84-22474

Automated hierarchical to CODASYL (Conference On Data Systems Languages) database interface schema translator
[AD-A138012] 12 p1918 N84-22496

The operator mapping between relational algebra operators and CODASYL based databases managed by a CODASYL DBMS
[AD-A136117] 12 p1918 N84-22497

Modification to the advanced degree requirements information system
[AD-A136167] 12 p1918 N84-22499

Target super-resolution compensation for coherent airborne radar utilizing spread spectrum waveforms
[AD-A138545] 13 p1982 N84-22866

The development and fabrication of an implantable, multiplexed, semiconductor multielectrode array
[AD-A138788] 13 p1986 N84-22895

Competitive procurements: The synergistic linkage among government, industry and academe
[AD-P002773] 13 p2053 N84-23320

Nailing down the liability issue once and for all
[AD-P002777] 13 p2054 N84-23324

Cost risk and contract type: A normative model
[AD-P002781] 13 p2055 N84-23328

Large firm efficiency, concentration, and profitability in defense markets
[AD-P002810] 13 p2059 N84-23356

Contractor fraud: Government response
[AD-P002833] 13 p2063 N84-23378

Publication in professional journals in science and engineering: A survey of editorial procedures and opinion
[AD-A138913] 13 p2064 N84-23385

Numerical aerodynamic analysis of a free falling autorotating plate
[AD-A138900] 14 p2102 N84-23612

Autonomous navigation of USAF spacecraft
[AD-A139173] 14 p2114 N84-23669

Experimental measurement of material damping for space structures in simulated zero-g
[AD-A139215] 14 p2120 N84-23703

A detailed comparison of hydrogen and mercury embrittlement in Monel 400
[AD-A139119] 14 p2127 N84-23753

Computer applications to geotechnical engineering
[AD-A139271] 14 p2134 N84-23789

A practical terrestrial packet radio network
[AD-A139162] 14 p2140 N84-23829

A constrained-clustering approach to the analysis of remote sensing data
[AD-A139124] 14 p2169 N84-23993

The Extended Multi-Attribute Decision Analysis Model (EMADAM)
[AD-A139510] 14 p2206 N84-24237

Developing and measuring an understanding of the concept of the limit of a sequence
[AD-A139399] 14 p2214 N84-24298

Vector optimization techniques
[AD-A139497] 14 p2219 N84-24317

Data envelopment analysis and extensions for decision support and management planning
[AD-A139430] 14 p2246 N84-24489

Electric vehicle modeling and simulation
[AD-A139719] 15 p2420 N84-25535

The advisability of competitive international satellites
[AD-A140188] 16 p2456 N84-25750

Surface chemistry of NiO (100)
[AD-A140233] 16 p2463 N84-25785

Installation and evaluation of SPLICE
[AD-A140170] 16 p2484 N84-25933

Modelling with integer variables
[AD-A140212] 16 p2549 N84-26363

An analysis of the implementation plan for the conversion from the T-37 to the T-46 aircraft in undergraduate pilot training
[AD-A141199] 18 p2793 N84-27726

A simulation model to evaluate aircraft survivability and target damage during offensive counterair operations
[AD-A141324] 18 p2793 N84-27728

B-1B Avionics/Automatic test equipment: Maintenance queueing analysis
[AD-A141175] 18 p2795 N84-27736

Multivariable digital flight control design of the X-29A
[AD-A140983] 18 p2796 N84-27745

Multivariable digital control laws for the UH-60A black hawk helicopter
[AD-A141046] 18 p2797 N84-27746

Nonlinear attitude stability of a dual-spin spacecraft containing spherical dampers
[AD-A141307] 18 p2807 N84-27821

Analysis of electric propulsion orbit transfer vehicles versus IUS, CENTAUR-G, and a reuseable bipropellant system
[AD-A141173] 18 p2808 N84-27827

The determination of the Bodner material coefficients for indium 718 and their effects on cyclic loading
[AD-A141174] 18 p2814 N84-27861

Adaptive topological configuration of an integrated circuit/packet-switched computer network
[AD-A141309] 18 p2830 N84-27966

Effects of nozzle and grid acceleration of corona wind on cooling of a vertical flat plate
[AD-A141224] 18 p2837 N84-28007

A parametric analysis of HELSTAR
[AD-A141143] 18 p2846 N84-28071

Wavelength selection for a ground based free electron laser weapon system
[AD-A141157] 18 p2846 N84-28072

Transient evoked potential in a critical event detection task
[AD-A141335] 18 p2900 N84-28397

Development of an AFIT (Air Force Institute of Technology) ADP system network model
[AD-A141253] 18 p2917 N84-28496

Development of a computer aided design package for control system design and analysis for use on a personal computer
[AD-A138065] 18 p2920 N84-28520

PASCAL statistical procedures package (PSPP)
[AD-A141049] 18 p2921 N84-28524

An application of the H-function to curve-fitting and density estimation
[AD-A141045] 18 p2925 N84-28553

Enhanced tracking of airborne targets using multiple model filtering techniques for adaptive field of view expansion
[AD-A141144] 18 p2926 N84-28554

An optimization methodology for multi-criteria comparison using response surface methods and mathematical programming
[AD-A141169] 18 p2926 N84-28555

Finite element solution of a self-adjoint transport equation in one dimension
[AD-A141225] 18 p2926 N84-28557

Evaluation of automated configuration management tools in ADA programming support environments
[AD-A140982] 18 p2944 N84-28866

Applications programs to facilitate use of a DBMS to store and retrieve graphics displays (INGRED 2)
[AD-A138059] 18 p2945 N84-28672

Systems development and applications software in medical facilities
[AD-A141306] 18 p2945 N84-28674

An analysis of national aviation policy with respect to America's strategic airlift capability
[AD-A141308] 18 p2946 N84-28679

A SLAM (Simulation Language for Alternative Modeling) airfield model for airlift operations
[AD-A141106] 19 p2960 N84-28762

Digital multivariable tracker control laws for the KC-135A
[AD-A141118] 19 p2964 N84-28786

Response and performance of contingency airfield pavements containing stabilized material layers
[AD-A141466] 19 p2969 N84-28817

On dynamical formulation of a tethered satellite system with mass transport
[AD-A142312] 19 p2980 N84-28888

Acquisition cost analysis for the near term military application of laser versus millimeter wave for satellite crosslink communications
[AD-A141061] 19 p3004 N84-29037

An analytical study of a locally cooled high Reynolds number simulation technique
[AD-A141062] 19 p3023 N84-29170

A statistical-dynamical model for forecasting cold air stratocumulus over the yellow sea
[AD-A141540] 19 p3058 N84-29403

Microcomputer-based graphical linear programming package
[AD-A141094] 19 p3075 N84-29508

Automated Q-GERT source code generation using computer aided design
[AD-A141127] 19 p3075 N84-29509

Applications of the variational integral in iterative numerical solutions to the stationary heat equations
[AD-A141091] 19 p3083 N84-29563

Special nonlinear optimization techniques
[AD-A141097] 19 p3083 N84-29564

An optically implemented Kalman filter algorithm
[AD-A141126] 19 p3083 N84-29565

Optical adaptive filter. Frequency domain implementation
[AD-A141090] 19 p3104 N84-29718

High resolution cathodoluminescence of yellow and waterclear CVD polycrystalline ZnS
[AD-A141100] 19 p3110 N84-29759

Analysis of the acquisition costs of uniquely-built spacecraft versus multi-mission modular spacecraft surrogates for the military space program of the 1970's
[AD-A141120] 19 p3114 N84-29785

A system dynamics approach to measuring the value of information
[AD-A141051] 19 p3115 N84-29794

A computer model for evaluation of launch vehicle and target tracking error assignments for direct ascent, deep space ASAT (Anti-satellite) systems
[AD-A141136] 20 p3134 N84-29898

Performance measurement in a distributed processing environment
[AD-A142410] 20 p3266 N84-30722

The Spot of Arago and its role in aberration analysis
[AD-A141983] 20 p3299 N84-30952

Shock-free transonic airfoil design by a hodograph method
[AD-A142752] 21 p3325 N84-31098
Time-dependent oscillations in a CW HF chemical laser unstable resonator
[AD-A142966] 21 p3409 N84-31622
An evaluation of two reliability and maintainability information systems
[AD-A143438] 22 p3674 N84-33290
Optimizing parameters and controls for maneuvering flexible structures
[AD-A143726] 23 p3701 N84-33457
Active suppression of aeroelastic instabilities on a forward swept wing using a linear optimal regulator
[AD-A144561] 24 p3854 N84-34442
Optimal sensor/actuator placement on a large space structure
[AD-A144560] 24 p3865 N84-34499
Millimeter wave communications
[AD-A144636] 24 p3895 N84-34669
Investigation of multiple controller system efficiency as applied to the CSDLI model
[AD-A144597] 24 p3949 N84-35002
Study of total gamma spectra correlation for extending identification range over photopeak analysis
[AD-A144637] 24 p3962 N84-35090
Computer aided geometrical optics design
[AD-A144559] 24 p3963 N84-35099

AIR FORCE LOGISTICS COMMAND, WRIGHT-PATTERSON AFB, OHIO.
The effect of aircraft age and flying hours on maintenance costs
[AD-A131534] 02 p0169 N84-11114
Quality assurance - Air Force Logistics Command
[AD-P002816] 13 p2060 N84-23361
Network repair level analysis model user's guide
[AD-A141991] 20 p3269 N84-30743

AIR FORCE MATERIALS LAB., WRIGHT-PATTERSON AFB, OHIO.
Improved materials characterization for spacecraft applications 24 p3865 N84-34494

AIR FORCE MEDICAL CENTER, LACKLAND AFB, TEX.
Suicide gestures of USAF basic trainees
[AD-P003245] 18 p2903 N84-28412

AIR FORCE OCCUPATIONAL AND ENVIRONMENTAL HEALTH LAB., BROOKS AFB, TEX.
Ozone survey of C-9A
[AD-A130632] 01 p0009 N84-10052
Air monitoring techniques for space shuttle launches Vandenberg Air Force Base
[AD-A132956] 05 p0700 N84-14593
USAF Space Shuttle dispersion modelling
[AD-A132957] 05 p0700 N84-14594
STS-5 (Space Transport System-5) fish kill, Kennedy Space Center, Florida
[AD-A132958] 05 p0700 N84-14595
Rationale for a Threshold Limit Value (TLV)R for JP-4/Jet B wide cut aviation turbine fuel
[AD-A134814] 08 p1201 N84-17827
Environmental monitoring instrumentation and monitoring techniques for space shuttle launches
[AD-A136594] 09 p1342 N84-18766
Temporal and spatial gaseous HCl concentrations in the near field STS postlaunch environment, Kennedy Space Center, Florida
[AD-A136935] 10 p1532 N84-20032

AIR FORCE OFFICE OF SCIENTIFIC RESEARCH, BOLLING AFB, WASHINGTON, D.C.
The 27th AFOSR (Air Force Office of Scientific Research) chemical and atmospheric sciences program review (27th)
[AD-A133718] 05 p0703 N84-14612

AIR FORCE PACKAGING EVALUATION AGENCY, WRIGHT-PATTERSON AFB, OHIO.
Evaluation of type 2 fast packs for electrostatic discharge properties
[AD-A133158] 06 p0853 N84-15557
Redesign of cargo mobility containers
[AD-A137396] 10 p1424 N84-19312
Redesigned of T-38 displacement gyroscope pack
[AD-A138047] 12 p1770 N84-21544
Evaluation of 'Sorbothane' cushioning material
[AD-A139079] 13 p1964 N84-22763

AIR FORCE ROCKET PROPULSION LAB., EDWARDS AFB, CALIF.
AFRPL (Air Force Rocket Propulsion Laboratory) technical objective document FY 1985
[AD-A137856] 11 p1626 N84-20641
Deuterium isotope effects in HMX thermochemical mechanisms: Decomposition, deflagration, and combustion 13 p1950 N84-22680
Low-cost insulator
[AD-A139903] 15 p2284 N84-24709
An investigation of experimental techniques for obtaining particulate behavior in metallized solid propellant combustion
[AD-A141044] 18 p2808 N84-27826
AFRPL solar-thermal rocket activities 20 p3140 N84-29938
Solar thermal propulsion: An investigation of solar radiation absorption in a working fluid
[AD-A144294] 24 p3917 N84-34797

AIR FORCE SPACE DIV., LOS ANGELES, CALIF.
Office automation in the acquisition environment
[AD-P002747] 13 p2049 N84-23294
The microcomputer in the acquisition environment
[AD-P002748] 13 p2049 N84-23295
Closing the gap between R and D and application in academe to better support government and industry
[AD-P002761] 13 p2052 N84-23308
Prerequisites for the establishment of a professional acquisition workforce
[AD-P002763] 13 p2052 N84-23310
The Consolidated Space Operations Center (CSOC) communications acquisition
[AD-P002154] 14 p2138 N84-23819
DSCS 3: Acquisition and testing
14 p2139 N84-23822

AIR FORCE SYSTEMS COMMAND, BOLLING AFB, WASHINGTON, D.C.
Air Force Systems Command research planning guide (research objectives)
[AD-A138851] 13 p2064 N84-23384
Guide to Canadian aerospace related industries
[AD-A140606] 17 p2598 N84-26650

AIR FORCE SYSTEMS COMMAND, EGLIN AFB, FLA.
Weapons file
[AD-A142508] 20 p3128 N84-29867

AIR FORCE SYSTEMS COMMAND, PATRICK AFB, FLA.
Operational applications of military test ranges in space transportation system programs
[AD-A132535] 04 p0490 N84-13217
Meteorological interactive data display system (MIDDA)
[AD-A141864] 19 p3059 N84-29406

AIR FORCE SYSTEMS COMMAND, WRIGHT-PATTERSON AFB, OHIO.
An-32 transportation aircraft, USSR
[AD-A131013] 01 p0008 N84-10050
A field of pressures of shock waves during a powerful underwater discharge
[AD-A130084] 01 p0078 N84-10510
Flow-field matrix solution for direct problem of flow along S1 relative stream surface employing non-orthogonal curvilinear coordinates and corresponding non-orthogonal velocity components
[AD-A131031] 01 p0079 N84-10512
Nd(3+): Yag laser pumped simultaneously by CW and pulsed light
[AD-A131092] 01 p0086 N84-10564
Solution of a minimum problem in aircraft wing theory
[AD-A131070] 02 p0174 N84-11147
Quiang 5 attack aircraft of the PRC
[AD-A131058] 02 p0177 N84-11161
Journal of Engineering Thermophysics (selected articles)
[AD-A129432] 02 p0180 N84-11172
Summary of the inaugural meeting of the Chinese Society of Astronautics Special Committee for Solid Rocket Propulsion and its first academic conference
[AD-A129342] 02 p0183 N84-11190
Journal of the Chinese Society of Astronautics (selected articles)
[AD-A131032] 02 p0183 N84-11191
Areas of the rational use of different spacecraft power systems
[AD-A129340] 02 p0186 N84-11207
A method for manufacturing a polyether halohydrin polymer and its derivatives
[AD-A130083] 02 p0199 N84-11298
Type KODEK DC modems for use in CYFRONET terminal network
[AD-A131057] 02 p0213 N84-11393
Closed energy cycle with MRD generator using T-layer effect
[AD-A131136] 02 p0242 N84-11583
Forming of magnetic fields with complex law of variation in time
[AD-A131128] 02 p0287 N84-11879
Calculating the probability of radiation from the dissociated states of diatomic molecules
[AD-A131069] 02 p0289 N84-11893
Optical cable-electrical cable hybrid transmission system. The videophone: The optical cable transmission part
[AD-A131012] 02 p0294 N84-11924
Acta Aeronautica et Astronautica Sinica
[AD-A131828] 03 p0315 N84-12055
Journal of the Chinese Society of Astronautics (selected articles)
[AD-A131881] 03 p0341 N84-12212
Trends in the development of teleinformatics
[AD-A131067] 03 p0359 N84-12338
Telecommunications (selected articles)
[AD-A131872] 03 p0361 N84-12346
From launching carrier rockets towards the Pacific on the accomplishments and problems of electronic technologies in our country
[AD-A131088] 03 p0366 N84-12380
Scientific-Technical Conference on Acyclic Electric Machines
[AD-A131880] 03 p0366 N84-12381
Synchronous generators with superconductive excitation windings
[AD-A131832] 03 p0366 N84-12382
Unipolar machine with superconductive excitation winding
[AD-A131820] 03 p0366 N84-12383
Acta Mechanica Sinica (selected articles)
[AD-A131871] 03 p0372 N84-12422
Discussion of static pressure liquid-floated gyros
[AD-A131874] 03 p0377 N84-12451
Laser journal (selected articles)
[AD-A131886] 03 p0379 N84-12465
Steam turbine as unipolar generator
[AD-A131142] 03 p0383 N84-12498
Storage of energy in magnetic field of superconductive coils
[AD-A131898] 03 p0403 N84-12636
Transactions of the Chinese Solar Energy Society (selected articles)
[AD-A131870] 03 p0403 N84-12637
Processing elements
[AD-A131068] 03 p0420 N84-12743
Ukrainian Physics Journal (selected articles)
[AD-A131087] 03 p0429 N84-12814
The possibility of amplifying infrared radiation by high-pressure reacting gas
[AD-A131086] 03 p0440 N84-12890
The growth and measurement of single-crystal doped GGG (Gd3-xCaxGa5-xZrx012)
[AD-A131875] 03 p0452 N84-12971
Horizons of technology (selected articles)
[AD-A131897] 03 p0476 N84-13135
Shot to the moon from a cannon
[AD-A132554] 04 p0490 N84-13216
A comment on the plateau combustion mechanism of the double-base propellants
[AD-A132551] 04 p0509 N84-13333
Weightlessness and management of liquid rocket propellant
[AD-A132516] 04 p0509 N84-13334
China builds first 6000kV type pulse voltage generator
[AD-A132564] 04 p0525 N84-13449
Outline of methods for design of superconducting turbogenerators
[AD-A132528] 04 p0525 N84-13451
NdP5O14 crystal used for miniature rangefinder
[AD-A132541] 04 p0539 N84-13549
The DJS-054II microcomputer
[AD-A132552] 04 p0577 N84-13807
Is it superconductivity at 293 k?
[AD-A132545] 04 p0612 N84-14037
The first peek at China's new fighters for the eighties, the Jian-8 and Jian-12
[AD-A133785] 05 p0625 N84-14113
Separation between stages of multistage carrier rocket
[AD-A132924] 05 p0644 N84-14237
Posts and telecommunications
[AD-A133805] 05 p0667 N84-14390
Functional electronic amplifiers with broad dynamic band
[AD-A133774] 05 p0675 N84-14433
The ultrastructural organization of the blue-green alga microcystis aeruginosa kuetz. Emend. Elenk in connection with toxicogenesis
[AD-A132540] 05 p0712 N84-14662
A mathematical investigation of the induction acceleration of conductors
[AD-A133786] 05 p0741 N84-14870
Dynamics of rarefied gas and molecular gas dynamics
[AD-A132689] 05 p0749 N84-14921
Concerning the possibility of employing superconducting systems for analyzing the compoeition of cosmic rays
[AD-A133792] 05 p0765 N84-15021
Journal of Engineering Thermophysics (selected articles)
[AD-A133167] 06 p0796 N84-15184
Utilization of low temperatures in electrical machines
[AD-A133325] 06 p0830 N84-15399
Methods of the analysis of the disruption of tracking
[AD-A133335] 06 p0918 N84-15963

First UFO incident for our country
[AD-A133326] 06 p0932 N84-16058
Telemetered seismic network--'System 768'
[AD-A133143] 07 p0963 N84-16245
An investigation of the texture surface silicon solar cell
[AD-A134250] 07 p1026 N84-16646
The preparation of low-loss optical fiber with microwave plasma activated chemical vapor deposition process
[AD-A134260] 07 p1076 N84-16994
Re-entry and simulation
[AD-A135515] 08 p1108 N84-17201
The oceangoing space survey ship, the Wang Yuan
[AD-A135514] 08 p1108 N84-17204
The question of optimization of three-dimensional maneuver of orbital apparatus in the atmosphere
[AD-A134753] 08 p1119 N84-17280
Constitution diagram of system vanadium - copper
[AD-A135516] 08 p1132 N84-17361
An evaluation of overload retardation behavior and overload retardation models of Ti-6Al-4V sheet titanium alloy
[AD-A135548] 08 p1132 N84-17362
An investigation of the thermodegradation of ablative organic silicon resin
[AD-A135546] 08 p1137 N84-17397
Journal on Numerical Methods and Computer Applications (selected articles)
[AD-A134752] 08 p1220 N84-17967
Form coefficient for the field of a superconducting synchronous machine
[AD-A134751] 08 p1226 N84-18010
Calculating the magnetic field from a saddle-shaped coil without a ferromagnetic circuit
[AD-A134776] 08 p1226 N84-18011
Linear inductive accelerator
[AD-A135547] 08 p1229 N84-18029
Chinese journal of infrared research (Selected articles)
[AD-A135504] 08 p1232 N84-18051
A program for developing automated scientific-information processing in maritime economy
[AD-A135518] 08 p1240 N84-18107
Probing into the secret of the Chinese Air Force
[AD-A135960] 09 p1249 N84-18157
Iron and steel (selected articles)
[AD-A135576] 09 p1282 N84-18376
Effect of the overload ratio on fatigue growth behavior in Ti-6Al-4V
[AD-A136027] 09 p1283 N84-18381
Effect of transformed beta morphology and other structural features on mechanical properties in Ti-6Al-4V
[AD-A136028] 09 p1283 N84-18382
Characteristics of the mechanical properties and the fractures of an alpha beta titanium alloy
[AD-A136144] 09 p1284 N84-18386
The possibilities of application of superconductors in electronics
[AD-A136488] 09 p1307 N84-18543
The effect of pulse current on the electrical strength of high-voltage modulator tubes
[AD-A136489] 09 p1307 N84-18544
Design and manufacturing technology of radioelectronic equipment, chapter 5
[AD-A136509] 09 p1307 N84-18545
Developed electrotechnology during a cosmic frost
[AD-A135575] 09 p1308 N84-18552
Problems in the development of high-power turbogenerators with superconducting field windings
[AD-A136525] 09 p1325 N84-18657
Discharging a superconducting store into an inverting converter
[AD-A135577] 09 p1341 N84-18761
Thyristor converter for capacitive laser accumulators
[AD-A136051] 09 p1341 N84-18762
Preliminary analysis of results of a mountain area atmospheric diffusion test
[AD-A136502] 09 p1342 N84-18765
Properties of aerosols during a dust storm over the Beijing area
[AD-A136521] 09 p1344 N84-18783
An estimation method of vertical diffusion parameters in the mesoscale range
[AD-A136498] 09 p1345 N84-18787
Diffusion of particulate matter and wind speed profile in planetary boundary layer
[AD-A135961] 09 p1345 N84-18790
Wave characteristics of temperature inversion process of nighttime radiation
[AD-A136499] 09 p1348 N84-18809
Structural analysis of air outflow from low layers of intense thundercloud
[AD-A136500] 09 p1348 N84-18810
Critical current of the dispersion superconducting phase, obtained during aging
[AD-A136024] 09 p1396 N84-19118
Problems of building turbogenerators with windings made of superconductors and pure metals
[AD-A137198] 10 p1485 N84-19710
Transactions of the Industrial Institute of Electronics (selected articles)
[AD-A137204] 10 p1485 N84-19711
The research on short backfire antenna
[AD-A137209] 10 p1485 N84-19712
The automatic remote sensing system on a 320 meter meteorological tower
[AD-A137144] 10 p1539 N84-20085
The relation between the gravity current in the atmospheric boundary layer and local heavy rainfall
[AD-A137193] 10 p1539 N84-20086
International aviation (selected articles)
[AD-A137617] 11 p1599 N84-20473
Acta Aeronautica et Astronautica Sinicia (selected articles)
[AD-A137150] 11 p1599 N84-20475
For the sacred air space of our homeland
[AD-A137189] 11 p1599 N84-20476
The present calculation method of adhering layers on aircraft wings
[AD-A137585] 11 p1602 N84-20496
An iterative guidance method for the large rocket launch vehicle
[AD-A137586] 11 p1624 N84-20629
A calculation of descent segment of internal ballistics in solid rocket motors
[AD-A137199] 11 p1626 N84-20642
Fiber-optic communications systems
[AD-A137138] 11 p1644 N84-20749
JDF-1 small light-weight electric eddy current oscillator
[AD-A137572] 11 p1646 N84-20761
Microwave semiconductor equipment produced in Poland
[AD-A137598] 11 p1646 N84-20762
Theory of the two-frequency operating mode of traveling-wave tubes of the O type
[AD-A137616] 11 p1646 N84-20763
Heavy machine-tool construction for 50 years
[AD-A137599] 11 p1665 N84-20861
A method to estimate the vertical dispersion parameter in a 10 Km range
[AD-A137192] 11 p1683 N84-20982
A numerical analysis of the effect of inhomogeneity and wind speed shear on the vertical dispersion in the mesoscale range
[AD-A137188] 11 p1688 N84-21006
Boundary values of parameters and perspectives for the development of sensors for thermal imaging equipment
[AD-A137185] 11 p1732 N84-21297
Journal of Engineering Thermophysics (selected articles)
[AD-A137191] 11 p1745 N84-21391
Acta aeronautica et astronautica sinica (selected articles
[AD-A138531] 12 p1764 N84-21506
The Earth synchronous satellite carrier rocket
[AD-A138504] 12 p1778 N84-21602
Vortex motion in a precombustion chamber with intersecting jets
[AD-A139040] 13 p1956 N84-22717
The calculation of the heat transfer associated with the injection of methane gas at the stagnation point of the dissociated boundary layer of the laminar air flow
[AD-A139063] 13 p1990 N84-22918
Transient processes in an inductor system consisting of a flat coil and a multilayer conducting medium
[AD-A139053] 13 p2039 N84-23232
Technology of the radiation hardened MOS devices
[AD-A138995] 13 p2047 N84-23283
Mechanized contract document preparation and abstract system
[AD-P002750] 13 p2050 N84-23297
The acquisition management information system: Friend or foe?
[AD-P002751] 13 p2050 N84-23298
Managing program risk: One way to reduce cost growth
[AD-P002754] 13 p2051 N84-23301
Competition: An integral part of the acquisition process
[AD-P002774] 13 p2054 N84-23321
A study on the prediction of the starting transient process of solid propellant rocket motors
[AD-A139453] 14 p2118 N84-23692
Slip forms for the construction of PRessed CAst-in-Situ concrete linings for shield tunneling
[AD-A139411] 14 p2134 N84-23792
Swirl at gas-intake inlet
[AD-A139472] 14 p2146 N84-23861
Device for marking and searching for information on a magnetic carrier
[AD-A139393] 14 p2148 N84-23867
Stability of permanent magnets
[AD-A139471] 14 p2220 N84-24320
Linear induction accelerator
[AD-A139458] 14 p2222 N84-24336
Scientology and management of science and technology
[AD-A139084] 14 p2246 N84-24487
Installation of large-size technological equipment (selected pages)
[AD-A139069] 15 p2318 N84-24910
Journal of engineering thermophysics (selected articles)
[AD-A139070] 15 p2415 N84-25501
Journal of aeronautical materials (selected articles)
[AD-A140167] 16 p2434 N84-25610
Journal of aeronautical materials (selected articles)
[AD-A140181] 16 p2434 N84-25611
Synthesis and investigation of polyimidobenzimidazoles
[AD-A140184] 16 p2471 N84-25838
Hydraulic presses
[AD-A139822] 16 p2477 N84-25877
Radomes for flight vehicles
[AD-A140174] 16 p2483 N84-25920
Unipolar electric machines with liquid-metal current pickup
[AD-A139778] 16 p2484 N84-25932
International aviation (selected articles)
[AD-A140895] 17 p2601 N84-26671
Synthesis of polyheteroarylenes for highly heat-resistant materials
[AD-A140610] 17 p2626 N84-26804
Chemical news (selected articles)
[AD-A140887] 17 p2627 N84-26808
The behavior of streamlines near separation point and separation criterion
[AD-A140649] 17 p2668 N84-27010
Scanning photoelectric devices of search and tracking
[AD-A132566] 17 p2671 N84-27027
Problems of technical electrodynamics (selected articles)
[AD-A140972] 18 p2833 N84-27985
A mixed explicit-implicit antidiffusive method of Navier-Stokes equations for supersonic and hypersonic separated flows
[AD-A141010] 18 p2837 N84-28005
Mass spectrometers for studying the ionic and neutral composition of the upper layers of the atmosphere
[AD-A141011] 18 p2879 N84-28282
Power plants in space
[AD-A142099] 19 p2983 N84-28902
Action of penetrating radiation on radio parts
[AD-A142107] 19 p3007 N84-29059
High-voltage spark gap
[AD-A141072] 19 p3013 N84-29097
Oscillations of a reservoir with a fluid on the free surface of which a membrane is located
[AD-A142127] 19 p3024 N84-29179
Acta mechanica sinica (Selected articles)
[AD-A142128] 19 p3024 N84-29180
The forecasts of computers and the policy-making of China
[AD-A141557] 19 p3072 N84-29488
Aeronautical Materials (selected articles)
[AD-A139952] 20 p3159 N84-30063
Influences of directionally solidified techniques and hafnium content on a nickel base high temperature alloy
20 p3159 N84-30064
A study of the tempering transformation of retained austenite in isothermal quenching structures, bainite tempered embrittlement 20 p3159 N84-30065
The effects of solid solution temperatures and cooling rates on the microstructures of BT3-1 titanium alloy
20 p3160 N84-30066
Influence of temperature on the Delta K sub th and da/dN of LY-12CS aluminum alloy 20 p3160 N84-30067
Preliminary investigation of fatigue crack propagation of 30CrMnSiA steel in salt spray corrosion conditions
20 p3160 N84-30068
Study of the fatigue crack propagation characteristics of YB-3 and YB-4 aeronautical organic glass
20 p3160 N84-30069
The effects of non-metallic inclusions in steel on fatigue properties 20 p3160 N84-30070
Characteristics of initial period fatigue crack propagation of metals and its affecting factors
20 p3160 N84-30071
Forging and stamping nonferrous metals. Handbook
[AD-A141689] 21 p3366 N84-31351
On waves in nonadiabatic and nonequilibrium gases
[AD-A141450] 21 p3383 N84-31465
Ionizing emissions and electronics
[AD-A142065] 21 p3383 N84-31466

Simplified Navier-Stokes equations and combined solution of non-viscous and viscous boundary layer equations
[AD-A141634] 21 p3399 N84-31564
Flowing effects in gas lasers
[AD-A141409] 21 p3409 N84-31620
Using gas-turbine power stations with aircraft engines for power-and-heat generation
[AD-A142084] 21 p3434 N84-31786
Supersonic flows around a circular cone with or without blowing on the surface
[AD-A143258] 22 p3532 N84-32362
Dynamics of angular movements of a solid supporting a rotating rotor with consideration of energy dissipation
[AD-A143349] 22 p3611 N84-32881
Static methods in the design of nonlinear automatic control systems
[AD-A143297] 22 p3644 N84-33101
The proximity effects of superconducting multilayer film
[AD-A143255] 22 p3662 N84-33217
Flight operation manual for the MI-8 helicopter
[AD-A143880] 23 p3693 N84-33407
Acta armamentarii (selected articles)
[AD-A143904] 23 p3726 N84-33610
Problems of diffraction and propagation of waves (selected articles)
[AD-A143912] 23 p3731 N84-33650
Application of computational fluid dynamics in aircraft design
[AD-A144323] 24 p3854 N84-34441
T-motor tests with cylindrical grains
[AD-A143814] 24 p3866 N84-34503
A method for obtaining new derived benzimidazoles
[AD-A144320] 24 p3867 N84-34507
Rare-earth metals and their applications in aviation
[AD-A144410] 24 p3884 N84-34607
The manufacturing process and the cold deployment test of an extendible nozzle made of C-103 niobium alloy
[AD-A144524] 24 p3884 N84-34608
The calculation of the axisymmetrical subsonic viscous flow field of annular diffusers with prewhirling current at the inlets
[AD-A144534] 24 p3901 N84-34702
New developments in sensors
[AD-A144367] 24 p3903 N84-34712
Small continuous wave (CW) HF chemical laser
[AD-A144322] 24 p3908 N84-34756
Parametric characteristics of an electrically initiated HF laser
[AD-A144324] 24 p3908 N84-34757

AIR FORCE TECHNICAL APPLICATIONS CENTER, PATRICK AFB, FLA.

Space environment effects (M0006)
15 p2279 N84-24690

AIR FORCE WEAPONS LAB., KIRTLAND AFB, N. MEX.

Pulsed power bibliography. Volume 2: Annotated bibliography
[AD-A131753] 03 p0379 N84-12468
Pulsed power bibliography. Volume 1: Indices
[AD-A131752] 03 p0379 N84-12469
Direct shear failure in reinforced concrete beams under impulsive loading
[AD-A133666] 05 p0693 N84-14551
Soil characterization and evaluation at White Sands Missile Range, New Mexico
[AD-A134820] 08 p1108 N84-17206
Photoacoustic Absorption Spectroscopy (PAS) measurements
[AD-A136591] 09 p1388 N84-19067
The physics of second breakdown
[AD-A136537] 09 p1395 N84-19109
Electronic damping of a large optical bench
10 p1514 N84-19914
Discrete charge diagnostics on Pre-DIRECT COURSE
[AD-A139073] 13 p1990 N84-22919
Space environment effects on fiber optics systems
15 p2279 N84-24689
A z-pinch photo-pumped pulsed atomic iodine laser
[AD-A140033] 15 p2410 N84-25468
Automatic shock calibration of accelerometers
[AD-A141005] 18 p2844 N84-28061
Plasma conductivity experiments on pulsed high-voltage discharges by two coil RF-probe
[AD-A144595] 24 p3965 N84-35110

AIR FORCE WESTERN SPACE AND MISSILE CENTER, VANDENBERG AFB, CALIF.

Navstar GPS applications to test and training
24 p3850 N84-34418

AIR FORCE WRIGHT AERONAUTICAL LABS., WRIGHT-PATTERSON AFB, OHIO.

Introduction to computational aerodynamics
[AD-A130717] 01 p0005 N84-10031
Proceedings of the 8th Annual Mechanics of Composites Review
[AD-A130750] 01 p0031 N84-10196
NDE techniques for composite laminates
01 p0033 N84-10205
Multimode radar signal processor integration facility
[AD-A130655] 01 p0065 N84-10424
Laser velocimeter developments for surveying thin boundary layers in a Mach 6 high Reynolds number flow
[AD-A130387] 01 p0083 N84-10541
Evaluation of the variable reluctance transducer/carrier amplifier method of measuring low pneumatic pressures in aerodynamic and propulsion testing
[AD-A130695] 01 p0084 N84-10546
Self excited oscillations in journal bearings
[AD-A130200] 01 p0090 N84-10585
Effects of bonding temperatures on fatigue crack growth
[AD-A130396] 01 p0094 N84-10615
Statistics of crack growth of a superalloy under sustained load
[AD-A130395] 01 p0095 N84-10616
Proceedings of the 18th Annual Conference on Manual Control
[AD-A131256] 01 p0118 N84-10763
Composite laminate weight optimization on the Timex-Sinclair 1000 microcomputer
[AD-A130214] 01 p0121 N84-10789
Development and flight test of an active flutter suppression system for the F-4F with stores. Part 2: Ground tests and subcritical flight tests
[AD-A131402] 02 p0178 N84-11163
YC-15 EBF (Externally-Blown Flap) STOL (Short Takeoff and Landing) airplane fuselage and interior noise environment
[AD-A131462] 02 p0178 N84-11164
Computer generated pictorial stores management displays for fighter aircraft
[AD-A131412] 02 p0179 N84-11168
On the optimal design of bidirectional composites
[AD-A131353] 02 p0188 N84-11221
Mechanical properties of bis-phenol-A polysulfone and acetylene terminated bis-phenol-A blend
[AD-A131277] 02 p0200 N84-11303
The 80-micron particle acceleration in an expanding gas supplement
[AD-A130991] 02 p0218 N84-11426
Combined environment test of Sangamo Weston SABRE 12 airborne recorder
[AD-A131278] 02 p0223 N84-11463
The rocket-triggered lightning investigation
[AD-A131409] 02 p0249 N84-11631
AFWAL FY82 technical accomplishments
[AD-A131839] 03 p0315 N84-12054
A comparison of manual and vocal response modes for the control of aircraft subsystems
[AD-A132048] 03 p0330 N84-12152
Flightline thermal environment testing of F-111 transparencies
[AD-A131642] 03 p0332 N84-12163
Development and flight test of an active flutter suppression system for the F-4F with stores. Part 3. Flight demonstration of the active flutter suppression system
[AD-A131972] 03 p0337 N84-12191
Utility of the cortical evoked response as a measure of photographic image quality
[AD-A131679] 03 p0377 N84-12455
Improving NDE (Non-destructive evaluation) capability through multiple inspection with application to gas turbine engine disks
[AD-A131762] 03 p0385 N84-12509
The study of thin films on semi-insulating gallium arsenide by ellipsometry
[AD-A131844] 03 p0452 N84-12972
Evaluation of stress corrosion cracking characteristics of selected fastener systems in 7075-T6 aluminum
[AD-A132162] 04 p0499 N84-13272
Storage of synthetic turbine lubricants under adverse conditions
[AD-A132226] 04 p0506 N84-13319
Determination of a jet fuel metal deactivator by high performance liquid chromatography
[AD-A132220] 04 p0509 N84-13336
AFTI/F-16: An integrated system approach to combat automation
06 p0773 N84-15063
Composite laminate weight optimization on the HX-20
[AD-A133490] 06 p0799 N84-15207
Airborne lightning characterization
[AD-A130627] 06 p0881 N84-15733
Mach 0.6 to 3.0 flows over rectangular cavities
[AD-A134579] 07 p0948 N84-16153
Experimental verification of an endwall boundary layer prediction method 07 p0958 N84-16211
Composite laminate weight optimization on the sharp PC-1500 pocket computer
[AD-A133348] 07 p0968 N84-16272
Data acquisition for evaluation of an airborne lightning detection system
[AD-A135318] 08 p1100 N84-17153
Effects of JP-4 fuel on Graphite/Epoxy composites
[AD-A135416] 08 p1122 N84-17296
Behavior of an aromatic heterocyclic polymer in salt solution
[AD-A134865] 08 p1138 N84-17401
Use of small crack data to bring about and quantify improvements to aircraft structural integrity
[AD-A135012] 08 p1170 N84-17623
Feasibility assessment of JOVIAL to Ada translation
[AD-A134857] 08 p1213 N84-17911
Stability of compressible wake and jet flows
[AD-A136541] 09 p1314 N84-18589
The GRAPHIX library - A collection of interaction graphics routines for the Tektronix 4014
[AD-A135757] 09 p1368 N84-18932
On the modal identification of multiple degree of freedom systems from experimental data
10 p1511 N84-19687
Investigation of the acoustic characteristics of aircraft/engines operating in a dry-cooled jet engine maintenance test facility 10 p1513 N84-19901
Measurement and analysis of platform damping in advanced turbine blade response
10 p1514 N84-19911
A vibration damping treatment for high temperature gas turbine applications 10 p1514 N84-19912
Air force technical objective document fiscal year 1985
[AD-A136724] 10 p1598 N84-20471
Military aircraft research opportunities for the future
11 p1619 N84-20598
Non-self generating transducer signal conditioning technique
[AD-P002677] 11 p1657 N84-20814
Aircraft ground vibration test instrumentation system
[AD-P002694] 11 p1660 N84-20829
A survey of macroscopic failure criteria for composite materials
[AD-A138091] 12 p1789 N84-21670
Torosional vibration of crankshafts in reciprocating machines 12 p1822 N84-21876
Revision of design values for 7075-T7351 and 7075-T7651 aluminum plate
[AD-A139092] 13 p1961 N84-22740
Digital capability for cockpit television sensor instrumentation systems
[AD-A139432] 14 p2106 N84-23628
USAF shale oil program status
14 p2107 N84-23633
Fuel property effects on USAF gas turbine engine combustors and afterburners 14 p2107 N84-23635
Command Post Modem/Processor (CPM/P)
[AD-P002151] 14 p2138 N84-23816
Design and robustness analysis of reduced order controllers for large flexible space vehicles
15 p2269 N84-24623
Utilization of laser diagnostics to evaluate combustor models 15 p2294 N84-24767
Application of multifunction strapdown inertial system
16 p2447 N84-25698
Synthesis and properties of phenylated aromatic heterocyclic imide and thiazole polymers containing pendant diphenylether and diphenylsulfide groups
[AD-A140341] 16 p2472 N84-25844
Cluster calculation of electronic structure of the diamond (111) surface using the XAlpha-scattered wave method
[AD-A140486] 16 p2560 N84-26426
Battle damage repair of birdstrike resistant laminated transparencies
[AD-P003185] 17 p2589 N84-26598
Transparency technology needs for military aircraft
[AD-P003191] 17 p2590 N84-26604
Heat resistant copolyester-carbonate transparent plastics
[AD-P003205] 17 p2593 N84-26618
In-flight measurement of pressure distribution over T-38 student canopy
[AD-P003207] 17 p2593 N84-26620
Aircraft transparency testing methodology
[AD-P003213] 17 p2594 N84-26626
Bird impact evaluation of the F/RF-4 transparency system
[AD-P003218] 17 p2595 N84-26631
A triangulation technique for obtaining deflections of aircraft transparencies during bird impact testing
[AD-P003220] 17 p2595 N84-26633
Validation of the MAGNA (Materially and Geometrically Nonlinear Analysis) computer program for nonlinear finite element analysis of aircraft transparency bird impact
[AD-P003229] 17 p2596 N84-26642

MAGNA (Materially and Geometrically Nonlinear Analysis) computer simulation of bird impact on the F-15 aircraft canopy
[AD-P003230] 17 p2597 N84-26643
Simulation of T-38 aircraft student canopy response to cockpit pressure and thermal loads using MAGNA (Materially and Geometrically Nonlinear Analysis)
[AD-P003231] 17 p2597 N84-26644
FY 1985 technical objective document
[AD-A140581] 17 p2770 N84-27586
Characterization of Acetylene Terminated Sulfone (ATS-G)
[AD-A141348] 18 p2819 N84-27897
MAGIC (Microcomputer Applications of Graphics and Interactive Communications). 1: A study of manual versus vocal control under heavy task loading
[AD-P003320] 18 p2910 N84-28456
Active suppression of aeroelastic instabilities for forward swept wings
[AD-A141739] 19 p2964 N84-28783
Radiation testing of GaAs on CRRES and LIPS experiment 19 p3044 N84-29314
A data acquisition and real-time display system for testing a jet engine compressor
[AD-A142696] 20 p3197 N84-30301
Effects of variations in coldworking repair procedures on flaw growth and structural life
[AD-A141966] 20 p3202 N84-30336
Air force technical objective document FY 85
[AD-A141925] 20 p3312 N84-31033
Feasibility assessment of JOVIAL to Ada (Trademark) translation
[AD-P003523] 21 p3330 N84-31127
PAVE PILLAR: A maturation process for an advanced avionics architecture
[AD-P003568] 21 p3337 N84-31173
Integrated CNI (Communication Navigation and Identification) avionics and future standardization
[AD-P003580] 21 p3339 N84-31185
Powder metallurgy of light metal alloys for demanding applications
[AD-A142066] 21 p3366 N84-31352
Flight testing a digital flight control system: Issues and results 24 p3848 N84-34403
Decision recommendation board (DRB) report. Transition of shale JP-4 to the operational validation phase
[AD-A144504] 24 p3890 N84-34633

AIR FRANCE, PARIS.
The analysis of records of parameters: An indispensable tool in oversight and in operations control 06 p0775 N84-15082

AIR PRODUCTS AND CHEMICALS, INC., ALLENTOWN, PA.
Solid state compressor
[AD-A140498] 16 p2499 N84-26032
Solid state compressor
[AD-A142605] 20 p3196 N84-30300
Study of the kinetics of hydrogenation using aged catalysis
[DE84-006586] 21 p3362 N84-31330
Effect of feed gas trace components on the SRC-1 hydrogen purification unit
[DE84-012975] 22 p3562 N84-32556

AIR WEATHER SERVICE, SCOTT AFB, ILL.
Mean upper tropospheric flow over the global tropics, volume 1
[AD-A141227] 18 p2889 N84-28341
Mean upper tropospheric flow over the global tropics, volume 2
[AD-A141484] 19 p3058 N84-29402

AIR WEATHER SERVICE, THULE (GREENLAND).
Index of air weather service technical publications
[AD-A139133] 14 p2179 N84-24054

AIRBORNE RESEARCH ASSOCIATES, WESTON, MASS.
Meteorological research and support for the MIZEX (Marginal Ice Zone Experiment) program
[AD-A142409] 20 p3245 N84-30598
Search for solar signals in GOES imagery and cloud climatology analysis 24 p3931 N84-34881

AIRBUS INDUSTRIE, BLAGNAC (FRANCE).
Certification experience with methods for minimum crew demonstration 06 p0778 N84-15101

AIRCRAFT RESEARCH AND DEVELOPMENT UNIT, EDINBURG (AUSTRALIA).
Evaluation of installation of Lightweight Doppler Navigation System (LDNS) in Iroquois UH-1H aircraft
[AD-A137815] 11 p1605 N84-20510
A device for measurement of control column forces in aircraft
[AD-A140876] 17 p2607 N84-26700

AIRCRAFT RESEARCH ASSOCIATION LTD., BEDFORD (ENGLAND).
Aerodynamic interference: A general overview 03 p0318 N84-12060
External stores interference 03 p0318 N84-12063
Civil turbofan propulsion system integration studies using powered testing techniques at ARA, Bedford
[ARA-MEMO-246] 13 p1931 N84-22561
Recent developments in store separation and grid survey techniques using the ARA Two-Sting Rig 14 p2099 N84-23595

AIRESEARCH MFG. CO., TORRANCE, CALIF.
Permanent-magnet motors and generators for aircraft 01 p0010 N84-10062
High-specific-energy composite-material flywheel
[DE83-012943] 01 p0090 N84-10586
Advanced high-power generator for airborne applications
[AD-A133290] 06 p0830 N84-15398
Subatmospheric Brayton-cycle engine program review 18 p2874 N84-28247

AKADEMIYA NAUK BSSR, MINSK.
Selfpulsing, hysteresis and chaos in a standing wave laser 14 p2239 N84-24439
Vacuum-deposited thin-film interferometers as bistable devices operating continuously at room temperature 14 p2241 N84-24453

AKRON UNIV., OHIO.
Failure processes in elastomers at or near a rigid spherical inclusion
[AD-A132060] 03 p0356 N84-12314
Buckling analysis of end restrained imperfect tubular beam columns 05 p0691 N84-14539
Effect of amine surface treatment on the adhesion of a polyurethane to the surface
[AD-A135591] 09 p1288 N84-18406
Durability of adhesive bonds between glass or metal substrates and a polybutadiene-polyurethane
[AD-A137489] 10 p1466 N84-19578
Experimental study of uncentralized squeeze film dampers
[NASA-CR-168317] 10 p1516 N84-19927
Effect of interfacial bonding on the strength of adhesion of elastomers. 3: Interlinking by molecular entanglements
[AD-A138760] 13 p1963 N84-22757
Micromechanics of fracture in elastomers
[AD-A138783] 13 p1964 N84-22758
Finite element analysis of structure subjected to nonstationary load fields with contact interfaces 13 p2002 N84-22993
Science of adhesion
[PB84-176734] 16 p2473 N84-25852
The role of chemical bonding in adhesion
[AD-A140937] 18 p2818 N84-27891
Durability of adhesive bonds with ionic bonds at the interface 20 p3144 N84-29960
Nonlinear finite element analysis of shells with large aspect ratio 21 p3420 N84-31692
Self-adaptive solution strategies 21 p3420 N84-31693
Computational modelling of jet induced mixing in cryogenic propellant tanks in low-g 23 p3745 N84-33742
Extension of constrained incremental Newton Raphson methodologies to handling generalized thermomechanical loading fields 23 p3760 N84-33829

AKTIEBOLAGET ROLLAB, STOCKHOLM (SWEDEN).
A quasi-continuous transonic wind tunnel for cryogenic operation
[ROLLAB-MEMO-RM-096] 06 p0792 N84-15161

AKTIESELSKABET NORDISKE KABEL- OG TRAADFABRIKER, COPENHAGEN (DENMARK).
Thermal properties of loose tube secondary coated optical fibres experimentally discussed by a relative light pulse delay technique 11 p1727 N84-21269

ALABAMA A & M UNIV., HUNTSVILLE.
Logic simulator program 06 p0927 N84-16023
Partial analysis of Insta-Foam 06 p0928 N84-16030
Compositional segregation in unidirectionally solidified solid solution crystals 06 p0932 N84-16055

ALABAMA A & M UNIV., NORMAL.
High Reynolds number cylinder flow studies
[AD-A131116] 02 p0218 N84-11429
Laboratory automation of a quadrupole mass spectrometer 06 p0932 N84-16053
Atmospheric effects on coherent lidar systems 24 p3924 N84-34839

ALABAMA UNIV., BIRMINGHAM.
Theoretical design and analysis of the layered synthetic microstructure optic for the dual path X-ray telescope
[NASA-CR-171133] 21 p3498 N84-32168

ALABAMA UNIV., HUNTSVILLE.
Plasma source for spacecraft potential control
[NASA-CR-174552] 01 p0028 N84-10177
Stinger post hybrid simulation: Design description and users' manual
[AD-A130027] 01 p0122 N84-10791
Preliminary studies of Solar Advance Observatory and Solar Beacon Facility
[NASA-CR-170937] 03 p0466 N84-13068
New polymers for low-gravity purification of cells by phase partitioning
[NASA-CR-170957] 06 p0809 N84-15267
Research reports: 1983 NASA/ASEE Summer Faculty Fellowship Program
[NASA-CR-170942] 06 p0927 N84-16022
The generalized Euler-Mascheroni constants 06 p0927 N84-16024
Reflectance measurements, part 2 06 p0928 N84-16028
A study of accretion in compact sources: Disk precession and jet helicity 06 p0929 N84-16038
Characteristics of RF lightning emission at 2 GHz and 250 MHz 06 p0929 N84-16039
Statistical analysis of a debugging model 06 p0931 N84-16048
Determination of systems suitable for study as monotectic binary metallic alloy solidification models 06 p0931 N84-16050
Orbital maneuvering vehicle simulation system on-board processing logic 06 p0931 N84-16052
Finite element analysis of a deployable space structure 06 p0932 N84-16056
Comparison of thermal plasma observations on SCATHA and GEOS 08 p1117 N84-17262
Centralized monitoring and control of environmental chambers by digital computer
[AD-A138278] 12 p1773 N84-21563
Three-dimensional vorticity procedure interactions in combustion instability analysis of solid propellant rocket motors 13 p1945 N84-22647
Pershing II simulation studies. Debris dynamics and 2.75 rocket 6-DOF (Degree Of Freedom)
[AD-A139130] 14 p2113 N84-23663
Optical bistability in semiconductors 14 p2237 N84-24428
Plasma and magnetospheric research
[NASA-CR-171031] 15 p2368 N84-25205
Operating conditions for the Hydrogen/Deuterium triplet lasers
[AD-A141388] 19 p3029 N84-29210
Plasma and magnetospheric research
[NASA-CR-171080] 19 p3053 N84-29374
Digital systems design language. Design synthesis of digital systems
[NASA-CR-162032] 19 p3073 N84-29499
OMV: A simplified mathematical model of the orbital maneuvering vehicle
[NASA-CR-171123] 20 p3134 N84-29902
EValuation of a 96V EV 1000 battery pack at temperature extremes
[PB84-187723] 20 p3182 N84-30217
Evaluation of 96V exide EPV23-3 battery pack at temperature extremes
[PB84-187749] 20 p3182 N84-30218
Evaluation of an 96V ALCO 2200 battery pack at temperature extremes
[PB84-187731] 20 p3182 N84-30219
The design and testing of an electrolyte destratification system applied to a 96 V Alco 2200 battery
[PB84-184894] 20 p3237 N84-30550
The study of efficient low-power diffraction designs
[NASA-CR-171142] 21 p3405 N84-31598
Plasma and magnetospheric research
[NASA-CR-171157] 23 p3827 N84-34275
Investigation of mesoscale pre-convective forcing mechanisms 24 p3931 N84-34883

ALABAMA UNIV., UNIVERSITY.
Integrating multi-objective optimization methodologies in BMD technology
[AD-A136161] 09 p1383 N84-19036
Flow and free surface of a non-Newtonian fluid between concentric cylinders maintained at unequal temperatures 15 p2315 N84-24893
Conceptual design of a robotic loader system for remote missile launchers
[AD-A141270] 18 p2802 N84-27781
Vehicle concept for a robotic missile launcher
[AD-A141297] 18 p2802 N84-27782
Synthesis and evaluation of improved electron-beam and X-ray lithographic resist polymers
[AD-A141674] 19 p2999 N84-29006
Pinhole/coronograph pointing control system integration and noise reduction analysis
[NASA-CR-171152] 23 p3750 N84-33773

ALASKA UNIV., FAIRBANKS.
Operation of a telemetered seismic network on the Alaska Peninsula
[DE83-016673] 02 p0250 N84-11636
Solar wind disturbances in th outer heliosphere caused by successive solar flares from the same active region 03 p0472 N84-13104

The economics of data acquisition computers for ST and MST radars 17 p2683 N84-27084
Capabilities and limitations of the Sondrestrom radar for ST observations 17 p2691 N84-27139
Research status and recommendations from the Alaska workshop on gravity waves and turbulence in the middle atmosphere
[AD-A140939] 18 p2879 N84-28281
Arctic ice island and sea ice movements and mechanical properties
[DE84-014324] 23 p3803 N84-34116
A numerical simulation study of solar wind disturbances responsible for geomagnetic and auroral storms
[AD-A144178] 24 p3993 N84-35266

ALBANY INTERNATIONAL CORP., DEDHAM, MASS.
Seamless collapsible fuel tanks
[AD-A131933] 03 p0383 N84-12496
Development and fabrication of collapsible fuel storage drums for arctic use
[AD-A141207] 18 p2798 N84-27754

ALBERT EINSTEIN COLL. OF MEDICINE, NEW YORK.
Controls of intracellular communication mediated by gap junctions 02 p0264 N84-11738

ALBERTA RESEARCH COUNCIL, EDMONTON (CANADA).
Application of the finite element method to study crystal growth 15 p2307 N84-24840
The demand side flux determination, appendix P 18 p2886 N84-28311

ALBERTA UNIV., EDMONTON.
Spectroscopic determination of the ac voltammetric response
[AD-A137321] 18 p2833 N84-27983

ALEXANDER SYSTEMS CO., SAN DIEGO, CALIF.
MITS II (Microfiche Image Transmission System) investigations and design alternatives
[AD-A141040] 18 p2945 N84-28673

ALLEN-BRADLEY CO., TORRANCE, CALIF.
Development and fabrication of a high current, fast recovery power diode
[NASA-CR-168196] 04 p0524 N84-13443

ALLIANZ-ZENTRUM FUER TECHNIK G.M.B.H., ISMANING (WEST GERMANY).
Corrosion damage in metallic materials without mechanical loading 14 p2126 N84-23744
Corrosion damage with additional mechanical loading 14 p2126 N84-23745
Damage due to high temperature corrosion 14 p2126 N84-23746
Damage to welding seams 14 p2126 N84-23748

ALLIED CHEMICAL CORP., MORRISTOWN, N.J.
Development of a residential gas-absorption heat pump
[DE83-017218] 04 p0536 N84-13526
New high performance windshield/canopy materials
[AD-P003199] 17 p2592 N84-26612

ALLIED CHEMICAL CORP., SOLVAY, N. Y.
Study to establish cost projections for production of Redox chemicals
[NASA-CR-167881] 02 p0241 N84-11580

ALLIED CORP., MOUNT BETHEL, N.J.
Optical bistability in nonlinear media an exact method of calculation 14 p2236 N84-24414

ALPHA OMEGA GROUP, INC., HARVARD, MASS.
Functional and database architecture design
[AD-A136275] 09 p1403 N84-19169

ALPHATECH, INC., BURLINGTON, MASS.
Distributed detection of signal waveforms in additive Gaussian observation noise
[AD-A131016] 01 p0066 N84-10434
Sensor correlation and data fusion theory
[AD-A131510] 01 p0134 N84-10875
Tracking theory for airborne surveillance radars
[AD-A131792] 03 p0361 N84-12350
A comparison of two air defense command and control models
[AD-P002876] 13 p1977 N84-22837
Individual differences in military decisionmaking: The classification performance of active sonar operators
[AD-P002885] 13 p1979 N84-22846
Optimal maneuver detection and estimation in multiobject tracking
[AD-P002899] 13 p1981 N84-22858
A framework for evaluation of surveillance algorithms
[AD-P002901] 13 p1981 N84-22859
Informational aspects of a class of subjective games of incomplete information
[AD-P002910] 13 p1981 N84-22862
Sensor correlation and data fusion theory
[AD-A143587] 22 p3649 N84-33133

ALSYS, SAINT CLOUD (FRANCE).
Reference manual for the Ada programming language
[AD-A131511] 01 p0123 N84-10800

ALTUS CORP., SAN JOSE, CALIF.
Performance and safety to NAVSEA instruction 9310.1A of lithium-thionyl chloride reserve batteries 23 p3737 N84-33679

ALUMINIUM EXTRUSION CO. (PROPRIETARY) LTD., ELANDSFONTEIN (SOUTH AFRICA).
Aluminium extrusion: A metal forming process 09 p1293 N84-18444

ALUMINUM CO. OF AMERICA, ALCOA CENTER, PA.
Macrosegregation in aluminum alloy ingot cast by the semicontinuous direct chill method 24 p3883 N84-34800

ALUMINUM-VERLAG G.M.B.H., DUSSELDORF (WEST GERMANY).
Key to aluminium alloys. Designations, compositions, trade names of aluminium materials, first edition
[ISBN-3-87017-160-X] 10 p1458 N84-19522

AMAF INDUSTRIES, COLUMBIA, MD.
Magnetic field coupled velocimeters
[AD-A134002] 05 p0679 N84-14466

AMERICAN CONSULTING ENGINEERS COUNCIL, WASHINGTON, D.C.
Development of an evaluation methodology for passive solar design tools 16 p2516 N84-26148

AMERICAN COLL. TESTING PROGRAM, IOWA CITY, IOWA.
An application of a multidimensional extension of the two-parameter logistic latent trait model
[AD-A137741] 11 p1713 N84-21170
An extension of the two-parameter logistic model to the multidimensional latent space
[AD-A137769] 11 p1713 N84-21173

AMERICAN DEFENSE PREPAREDNESS ASSOCIATION, ARLINGTON, VA.
Proceedings of the 5th Interservice/Industry training equipment conference Volume 1
[AD-A142774] 21 p3508 N84-32223
Proceedings of the 5th Interservice-Industry Training Equipment Conference, volume 2
[AD-A142775] 21 p3515 N84-32266

AMERICAN DEFENSE PREPAREDNESS ASSOCIATION, WASHINGTON, D. C.
Annual meeting of the Pyrotechnics and Explosives Applications Section on the American Defense Preparedness Association
[AD-A143157] 21 p3373 N84-31406

AMERICAN GAS ASSOCIATION LABS., CLEVELAND, OHIO.
Heat-of-mixing experiments for liquefied gases
[PB84-215094] 22 p3562 N84-32560
Advancement of developmental technology for pulse combustion applications
[PB84-215268] 22 p3564 N84-32576

AMERICAN INST. FOR RESEARCH, BEDFORD, MASS.
Computer Aided Source Selection (CASS)
[AD-P002765] 13 p2055 N84-23332

AMERICAN SCIENCE AND ENGINEERING, INC., ARLINGTON, VA.
A study of coronal precursors of solar flares
[AD-A137163] 11 p1759 N84-21482

AMERICAN SOCIETY OF CIVIL ENGINEERS, NEW YORK.
Development of standard procedures for evaluating oxygen transfer devices
[PB84-147438] 12 p1846 N84-22032

AMERICAN UNIV., WASHINGTON, D. C.
The localized corrosion of aluminum alloys: A review
[AD-A132582] 04 p0498 N84-13269
Clarification of environmental effects in stress corrosion cracking
[AD-A138581] 13 p1960 N84-22737

AMES LAB., IOWA.
Simulation of closure: Effects on crack detection probability and stress distributions
[DE83-009309] 01 p0097 N84-10633
Intercalate phonon densities of states for alkali-graphite compounds
[DE83-016515] 02 p0188 N84-11225
Apparatus for directional solidification
[DE83-016409] 02 p0196 N84-11271
Simplified methods for the inelastic analysis of stiffened shells
[DE83-016518] 02 p0232 N84-11525
High-resolution nuclear magnetic resonance in solids (1975-1982)
[DE83-016408] 02 p0291 N84-11910
Progress on ultrasonic flaw sizing in turbine-engine rotor components: Bore and web geometries
[DE83-016081] 03 p0333 N84-12167
Piston-displacement equations of state for sodium, potassium, and rubidium metals to 20 kbar from 300 K to 4 K
[DE83-016079] 03 p0347 N84-12252
Amorphous silicon-carbon films
[DE83-016077] 03 p0347 N84-12259
Phonon dispersion of transverse basal-plane modes in alkali-graphite compounds
[DE83-003910] 03 p0350 N84-12273
Equations of state for the alkali metals, with generalizations to NaCl
[DE83-016075] 03 p0351 N84-12280
Atmospheric-pressure argon afterglows as a detector for gas chromatography
[DE83-017695] 03 p0351 N84-12282
Life prediction under stress corrosion conditions below K sub ISCC
[DE83-016074] 03 p0355 N84-12307
Effects of dissipation in one-dimensional inverse problems
[DE83-017692] 03 p0362 N84-12353
Inverse born approximation: Exact determination of shape of convex voids
[DE83-017685] 03 p0385 N84-12512
Elastic-wave inverse scattering in non-destructive evaluation
[DE83-017683] 03 p0386 N84-12513
Inference of fatigue-crack closure stresses from ultrasonic-transmission measurements
[DE83-017684] 03 p0390 N84-12547
Computational tool for the design of ultrasonic systems
[DE83-016092] 03 p0431 N84-12824
Analytic diffraction corrections to ultrasonic scattering measurements
[DE83-016080] 03 p0431 N84-12825
Measurements of ultrasonic scattering from near-surface flaws
[DE83-017693] 03 p0431 N84-12827
New developments and opportunities for NMR in metal-hydrogen systems
[DE83-017696] 03 p0437 N84-12864
Ultrasensitive optical rotation and refractive-index measurements
[DE83-016078] 03 p0442 N84-12903
Sputtered C-axis inclined piezoelectric films and shear-wave resonators
[DE83-017253] 03 p0455 N84-12997
Elastic-wave scattering from multiple voids (porosity)
[DE83-016076] 04 p0546 N84-13598
Effects of crack closure on ultrasonic transmission
[DE83-016073] 04 p0546 N84-13599
Absolute determination of stress in textured materials
[DE83-016083] 04 p0550 N84-13621
Ultrasonic 3-D reconstruction of inclusions in solids using the inverse Born algorithm
[DE83-016082] 04 p0595 N84-13928
Effects of a finite aperture on the inverse born approximation
[DE83-016086] 04 p0596 N84-13930
Electrical conductivities of polycrystalline and single-crystal Er2O3-stabilized hafnia
[DE83-017681] 06 p0811 N84-15279
Moessbauer spectroscopy study of amorphous Fe87B11Au2 ribbon and its crystallization products
[DE83-016091] 06 p0924 N84-16010
Review of progress in quantitative NDE
[DE84-001906] 07 p1014 N84-16575
Formulae for configuration averages of products of 1-body and 2-body operators in many-fermion spaces
[DE84-002634] 08 p1221 N84-17971
Resistivity and strain behavior during transformation cycling in nickel-titanium
[DE84-006640] 14 p2129 N84-23762
Electrochemical and surface studies of the deposition of mercury and selenium at a gold electrode
[DE84-007209] 15 p2299 N84-24798
Mode-to-mode vibrational energy transfer in (1)B2 aniline induced by collisions with CO/sub 2
[DE84-007197] 15 p2406 N84-25440
The effect of growth rate on interface morphology 18 p2936 N84-28624
Directional growth of pearlite in Fe-C eutectiod alloys
[DE84-007368] 20 p3156 N84-30042
Ductile-brittle transition temperature measurement of temper embrittled Ni-Cr steels by means of small punch tests
[DE84-012833] 20 p3158 N84-30054
Versatility of laser induced fluorescence line narrowing in chemical analysis
[DE84-012834] 21 p3360 N84-31316
Crack initiation model for stress corrosion cracking alpha-brass
[DE84-012837] 21 p3423 N84-31712
Magnetic impurity scattering in in situ superconductors
[DE84-012835] 21 p3505 N84-32212
Application of elastic wave scattering theory to the detection and characterization of flaws in structural materials
[DE84-013729] 22 p3607 N84-32852

Relation of vertical intensity profiles for neutral atom lines to analyte atomization behavior in inductively coupled plasmas
[DE84-014126] 22 p3659 N84-33194
New materials from high temperature synthesis
[DE84-014125] 22 p3664 N84-33231

AMHERST COLL., MASS.
Isotope effects in the solution of gases in liquids
[DE84-014846] 23 p3715 N84-33549

AMMANN AND WHITNEY, NEW YORK.
On-site survey and analysis of pyrotechnic mixer bays
[AD-A139485] 14 p2132 N84-23779

AMOCO OIL CO., NAPERVILLE, ILL.
Study of ebullated bed fluid dynamics
[DE84-010230] 20 p3187 N84-30251

AMOCO PRODUCTION CO., TULSA, OKLA.
RIM as an implementation tool for a distributed heterogeneous database 12 p1890 N84-22311

AMORPHOUS MATERIALS, INC., GARLAND, TEX.
Large plate CdTe synthesis by sealed vessel transport
[AD-A130947] 01 p0153 N84-11005
Large plate CdTe synthesis by sealed vessel transport
[AD-A134588] 07 p1081 N84-17027
Large plate CdTe synthesis by sealed vessel transport
[AD-A137514] 10 p1588 N84-20409

AMP, INC., HARRISBURG, PA.
Lead making for improved continuous-flow manufacturing systems 11 p1721 N84-21224

AMSTERDAM UNIV. (NETHERLANDS).
Machine models, computational complexity and number theory 08 p1223 N84-17991
Primality testing 08 p1224 N84-17993
The computation of Galois groups 08 p1225 N84-18000
Class numbers and units 08 p1225 N84-18001
Investigation of multiple scattering contributions to the depolarization of light scattered by carbon dioxide and xenon in the critical region. Part 3: Comparison between theory and experimental results
[VDW-PUBL-287] 19 p3105 N84-29731
Mechanical force and cartilage metabolism 23 p3808 N84-34147
The stellar wind enigma in early type stars: The high-velocity, narrow absorption lines in the UV 24 p3971 N84-35141
Evidence for variations in the phase-dependent ionization structure of the stellar wind in Vela X-1 24 p3981 N84-35220

ANACAPA SCIENCES, INC., SANTA BARBARA, CALIF.
Evaluation of map symbols for a computer generated topographic display: Transfer of training, symbol confusion, and association value studies
[AD-A133590] 06 p0866 N84-15643
Displaying colors of specified chrominance on a color graphics display
[AD-A133591] 06 p0896 N84-15817
The integrated mission-planning station: Functional requirements, aviator-computer dialogue, and human engineering design criteria
[AD-A136909] 10 p1430 N84-19352
Habitability and human productivity issues confronting the Air Force Space Command
[AD-P003266] 18 p2906 N84-28431
A systematic comparative analysis of conditions analogous to long-duration space missions
[AD-P003353] 18 p2912 N84-28469

ANACONDA-ERICSSON, INC., OVERLAND PARK, KANS.
Evaluation of foam-skin cables for aerial applications 11 p1725 N84-21252

ANALEX CORP., CLEVELAND, OHIO.
Approaches to optimization of SS/TDMA time slot assignment
[NASA-CR-168328] 07 p0983 N84-16243
Modular approach for satellite communication ground terminals
[NASA-CR-168327] 07 p0991 N84-16425
Engineering correlations of variable-property effects on laminar forced convection mass transfer for dilute vapor species and small particles in air
[NASA-CR-168322] 09 p1313 N84-18578
Users' manual for computer program for three-dimensional analysis of coupler-cavity traveling wave tubes
[NASA-CR-168269] 14 p2141 N84-23841

ANALYTIC SCIENCES CORP., READING, MASS.
Assessment of means for determining deflection of the vertical
[AD-A131266] 01 p0100 N84-10651
The effect of coordinate system rotation on spherical harmonic expansions: A numerical method
[AD-A131974] 03 p0425 N84-12785
US military aircraft cost handbook
[AD-A136035] 09 p1249 N84-18158
Logistics engineering design techniques for fault-tolerant avionics systems
[AD-A137456] 10 p1430 N84-19349
Radar data smoothing filter study
[NASA-CR-168347] 18 p2844 N84-28059

ANALYTICAL MECHANICS ASSOCIATES, INC., HAMPTON, VA.
STS-8 bet results
[NASA-CR-172257] 02 p0184 N84-11197
STS-9 BET products
[NASA-CR-172314] 11 p1622 N84-20616
Final STS-11 (41-B) best estimate trajectory products: Development and results from the first Cape landing
[NASA-CR-172349] 18 p2802 N84-27786
STS-13 (41-C) BET products
[NASA-CR-172350] 20 p3134 N84-29901

ANALYTICAL MECHANICS ASSOCIATES, INC., MOUNTAIN VIEW, CALIF.
Investigation of image enhancement techniques for the development of a self-contained airborne radar navigation system
[NASA-CR-166530] 16 p2445 N84-25684
VTOL shipboard letdown guidance system analysis
[NASA-CR-166519] 16 p2451 N84-25716

ANALYTICAL METHODS, INC., BELLEVUE, WASH.
Predicting aerodynamic characteristics of vortical flows on three-dimensional configurations using a surface-singularity panel method 03 p0323 N84-12112

ANALYTICAL SYSTEMS ENGINEERING CORP., BURLINGTON, MASS.
Engineering services in support of the AFGL sounding rocket program
[AD-A131929] 03 p0340 N84-12211

ANALYTICAL TECHNOLOGY APPLICATIONS CORP., MOUNTAIN VIEW, CALIF.
Ambiguity surface statistics and fluctuations
[AD-A137499] 10 p1570 N84-20284

ANALYTICS, INC., DAYTON, OHIO.
Increasing spares competition in AFLC (Air Force Logistics Center)
[AD-P002775] 13 p2054 N84-23322
Increasing competition for spares within AFLC (Air Force Logistics Command)
[AD-A140751] 17 p2770 N84-27588

ANALYTICS, INC., WILLOW GROVE, PA.
The role of simulation in high technology missile applications
[AD-A138277] 12 p1778 N84-21601

ANAMET LABS., INC., SAN CARLOS, CALIF.
Evaluation of a biaxial test fixture
[AD-A134845] 08 p1171 N84-17629

ANNAWERK KERAMISCHE BETRIEBE G.M.B.H., ROEDENTAL (WEST GERMANY).
Development of silicon nitride gas turbine components, phase 2
[BMFT-FB-T-83-322] 15 p2262 N84-24591

ANRADEX LTD., SAN FRANCISCO, CALIF.
Tailoring polymer films for solar-collection use, phase 1
[DE83-018117] 03 p0404 N84-12640

ANSALDO S.P.A., GENOA (ITALY).
Aerodynamics and steam wetness fraction of a multistage turbine. Comparison of prediction with experimental data 06 p0840 N84-15475

ANT NACHRICHTENTECHNIK, BACKNANG (WEST GERMANY).
Performance assessment of Serial Minimum Shift Keying (SMSK) modulation technique. Volume 1: Executive summary
[ESA-CR(P)-1840-VOL-1] 12 p1809 N84-21796
Performance assessment of Serial Minimum Shift Keying (SMSK) modulation technique, volume 2
[ESA-CR(P)-1840-VOL-2] 12 p1809 N84-21797

APPLIED COMBUSTION TECHNOLOGY, INC., ORLANDO, FLA.
Expanded ignition effectiveness tests of selected igniter materials with Navy propellants
[AD-A134704] 08 p1125 N84-17312
Expanded ignition effectiveness tests of selected igniter materials with Navy propellants 13 p1949 N84-22671
Ignitibility studies of LOVA propellants 13 p1950 N84-22678

APPLIED CONCEPTS CORP., WOODSTOCK, VA.
Investment justification of robotic technology in aerospace manufacturing
[AD-A140782] 17 p2598 N84-26651

APPLIED MICROWAVE PLASMA CONCEPTS, ENCINITAS, CALIF.
Proceedings of the Advanced Bumpy Torus Concepts Workshop
[DE84-002406] 09 p1392 N84-19091
Plasma confinement in self-consistent, one-dimensional transport equilibria in the collisionless-ion regime of EBT operation
[DE84-001861] 19 p3108 N84-29751

APPLIED MODELING, INC., WOODLAND HILLS, CALIF.
Design, test, and evaluation of an Air Force environmental model and data exchange
[AD-A143226] 22 p3638 N84-33060

APPLIED PHYSICS LAB., JOHNS HOPKINS UNIV., LAUREL, MD.
Large space instrumentation to measure the interaction between space structures and the environment
[AD-A129990] 01 p0028 N84-10179
Investigation of coherent anti-Stokes Raman scattering measurements in carbon ablation experiments
[AD-A130578] 01 p0036 N84-10230
Prediction of solar-terrestrial disturbances: Decay phase of energetic proton events
[AD-A130103] 01 p0165 N84-11085
Spatial variation of iron abundance in the high speed solar wind, 1972 to 1976 03 p0473 N84-13113
The Active Magnetospheric Particle Tracer Explorers (AMPTE) program 05 p0641 N84-14216
JANNAF Handbook: Rocket exhaust plume technology. Chapter 6: Spacecraft plume contamination
[AD-A131689] 05 p0644 N84-14236
The structure of the internal wave Mach front generated by a point source moving in a stratified fluid
[AD-A133775] 05 p0680 N84-14470
Human reactions to elf electric and magnetic fields: An annotated bibliography of current literature, 3rd edition
[PB83-259648] 05 p0714 N84-14679
Issues critical to the application of adaptive array antennas to missile seekers
[AD-A133401] 06 p0824 N84-15371
Higher order approximations in fluid mechanisms: Compact to spectral 06 p0839 N84-15466
JANNAF Performance Standardization Subcommittee 16th Meeting minutes
[CPIA-PUBL-382] 07 p0981 N84-16355
900 km of digital ocean wave spectra from the SEASAT SAR 07 p0990 N84-16415
Human reactions to transient electric currents, volume 8
[PB84-112895] 08 p1202 N84-17834
Particle sizing in a fuel-rich ramjet combustor
[AD-A135632] 09 p1257 N84-18204
Hazard analysis for magnetic induction from electric transmission lines
[PB84-125236] 10 p1473 N84-19619
A study of low energy electron precipitations and auroral phenomena by using the USAF polar orbiting satellites
[AD-A137888] 11 p1682 N84-20979
A study of low level laser retinal damage
[AD-A137664] 11 p1695 N84-21055
Developments in science and technology
[JHU/APL/DST-10] 11 p1761 N84-21491
The 14th JANNAF Plume Technology Meeting, volume 1
[AD-A139654] 13 p1941 N84-22619
The 20th JANNAF Combustion Meeting, volume 1
[AD-A138033] 13 p1943 N84-22632
Particle sizing in a fuel rich airbreathing engine combustor 13 p1943 N84-22634
Calculation procedures for variational, Born and exact solutions for electromagnetic scattering from two randomly separated dielectric Rayleigh cylinders
[AD-A138543] 13 p1982 N84-22865
Anomalous propagation and radar coverage through inhomogeneous atmospheres 15 p2326 N84-24967
Ocean energy systems
[DE84-005200] 15 p2364 N84-25182
Characteristics of the magnetospheric source of interplanetary energetic particles 16 p2573 N84-26512
Remote sensing for oceanography: Past, present, future 17 p2711 N84-27263
SPECTRASAT: A concept for the collection of global directional wave spectra 17 p2712 N84-27265
Tracking ocean wave spectrum from SAR images 17 p2714 N84-27277
Altimeter height measurement errors introduced by the presence of variable cloud and rain attenuation 17 p2716 N84-27289
Improved resolution rain measurements from spaceborne radar altimeters 17 p2716 N84-27290
A new technique for monitoring the water vapor in the atmosphere 17 p2716 N84-27293
Satellite techniques for determining the geopotential for sea-surface elevations 17 p2717 N84-27298
Detection of severe weather by FAA radars
[FAA-RD-79-91] 17 p2733 N84-27372
The 1984 JANNAF Propulsion Meeting, volume 1
[AD-A142852] 20 p3135 N84-29906
The 1984 JANNAF Propulsion Meeting, volume 2
[AD-A143025] 20 p3140 N84-29939

Computational Methods: 1984 JPM Specialist Session
[AD-A142923] 21 p3354 N84-31276
Laser Induced Chemistry. 1984 JPM Specialist Session
[AD-A142922] 21 p3372 N84-31400
The APL RCS (Radar Cross Section)/statistics code description, illustrations of output, and user's guide
[AD-A142929] 21 p3386 N84-31490
Nickel cadmium charge control concepts
23 p3738 N84-33688
Spectrasat: A concept for the collection of global directional wave spectra 23 p3782 N84-33981
The Navy Geosat mission radar altimeter satellite program 23 p3782 N84-33982

APPLIED RESEARCH ASSOCIATION, INC., ALBUQUERQUE, N. MEX.
Fundamental properties of soils for complex dynamic loadings: Dynamic constitutive modeling of sandy soils
[AD-A131284] 02 p0206 N84-11341
Fundamental properties of soils for complex dynamic loadings; dynamic constitutive model fundamentals
[AD-A139358] 14 p2134 N84-23791

APPLIED RESEARCH CORP., HUNTSVILLE, ALA.
Beta systems error analysis
[NASA-CR-170998] 11 p1705 N84-21117

APPLIED RESEARCH LAB., STATE COLLEGE, PA.
A study of pump cavitation damage
[NASA-CR-170992] 11 p1652 N84-20783
Modified 5-point and 9-point schemes for the solution of the Vorticity- transport equation with cross derivatives
[AD-A142720] 20 p3284 N84-30851
Sidewall boundary layer corrections in subsonic, 2-dimensional airfoil-hydrofoil testing
[AD-A144002] 23 p3691 N84-33391

APPLIED SOLAR ENERGY CORP., CITY OF INDUSTRY, CALIF.
Design and development of low cost photovoltaic concentrator modules
[DE84-003150] 07 p1026 N84-16649
Metallization problems with concentrator cells
12 p1839 N84-21990
Microcrystalline silicon growth for heterojunction solar cells
[NASA-CR-173751] 18 p2869 N84-28215
Microcrystalline silicon growth for heterojunction solar cells
[NASA-CR-173750] 18 p2869 N84-28216
Process in manufacturing high efficiency AlGaAs/GaAs solar cells by MO-CVD 19 p3044 N84-29311

APPLIED SOLAR ENGINEERING, INC., SAN ANTONIO, TEX.
Wind energy systems program summary, fiscal years 1981 and 1982
[DE84-002958] 11 p1673 N84-20919

APPROVED ENGINEERING TEST LABS., FULLERTON, CALIF.
Staged collision and damage data report for accident reconstruction of fourteen (14) test vehicles (1980 - 1982 model year), volume 1
[PB83-228502] 01 p0092 N84-10598

AQUATER S.P.A., SAN LORENZO IN CAMPO (ITALY).
Crop identification by means of spectral profiles
23 p3768 N84-33888

ARBEITSGEMEINSCHAFT DER GROSSFORSCHUNGSEINRICHTUNG, BONN (WEST GERMANY).
Documents on industrial research
[AGF-DOK-1/1983] 10 p1592 N84-20429
Industrial research and industry: Forms of collaboration and participation
[AGF-DOK-2/1983] 10 p1592 N84-20430

ARBEITSGEMEINSCHAFT DEUTSCHER VERKEHRSFLUGHAEFEN, STUTTGART (WEST GERMANY).
Determination of the Pavement Classification Number (PCN) of airfields
[ISBN-3-87977-0530] 02 p0182 N84-11185

ARCHITECTURAL ENERGY CORP., WESTMINSTER, COLO.
Field instrumentation for the passive solar commercial buildings monitoring program 16 p2515 N84-26142

ARCO SOLAR, INC., WOODLAND HILLS, CALIF.
Hot-spot investigations of utility scale panel configurations 22 p3582 N84-32687
Evolution of integrated panel structural design and interfaces for PV power plants 22 p3584 N84-32701
Qualification testing and electrical measurement experience: A manufacturer's view
22 p3585 N84-32705

ARCON CORP., WALTHAM, MASS.
Mathematical modelling of waveguiding techniques and electron transport, volume 2
[AD-A139604] 15 p2391 N84-25350
Mathematical modelling of waveguiding techniques and electron transport, volume 1
[AD-A139603] 15 p2397 N84-25382
Analysis and programming for electromagnetic applications
[AD-A142313] 19 p3009 N84-29071

ARECIBO IONOSPHERIC OBSERVATORY, PUERTO RICO.
The HF-enhanced plasma line
05 p0635 N84-14180
Decoding: Codes and hardware implementation
17 p2694 N84-27160

ARETE ASSOCIATES, INC., ENCINO, CALIF.
Lidar remote sensing of internal waves and optical properties 06 p0871 N84-15670

ARGONNE NATIONAL LAB., IDAHO FALLS, IDAHO.
Automated reasoning in man-machine control systems
[DE83-014307] 03 p0424 N84-12774

ARGONNE NATIONAL LAB., ILL.
Irradiation effects on the mechanical properties of composite organic insulators
[DE83-014703] 01 p0032 N84-10202
Preliminary study of the electrolysis of aluminum sulfide in molten salts
[DE83-014552] 01 p0038 N84-10242
Search for doubly-charged negative ions via accelerator mass spectrometry
[DE83-014321] 01 p0038 N84-10243
Electrochemical characteristics of lithium-silicon alloy electrodes for high-temperature-battery applications
[DE83-014343] 01 p0039 N84-10244
Effect of oxygen monolayer coverages on titanium sputtering yields as determined by simultaneous laser fluorescence and Auger measurements
[DE83-014716] 01 p0046 N84-10296
New fabrication process for a tubular LiAl/FeS cell battery
[DE83-014305] 01 p0074 N84-10488
Development of enhanced heat transfer/transport/storage slurries for thermal-system improvement
[DE83-009688] 01 p0081 N84-10525
High-voltage analytical electron microscopy
[DE83-014318] 01 p0085 N84-10554
Developmental techniques for ultrasonic flaw detection and characterization in stainless steel
[DE83-014282] 01 p0092 N84-10601
Blunt-crack band propagation in finite-element analysis for concrete structures
[DE83-010726] 01 p0097 N84-10632
FORTRAN 8X: A continuing language for numerical software
[DE83-014290] 01 p0124 N84-10809
Viscous effect on acoustic scattering by elastic solid cylinders and spheres
[DE83-014271] 01 p0140 N84-10920
High charge picosecond pulses with a double gap subharmonic buncher
[DE83-011743] 01 p0143 N84-10939
Technology assessment of productive conservation in urban transportation
[DE83-012179] 01 p0163 N84-11070
Self-pumping impurity control by in-situ metal deposition
[DE83-014265] 02 p0195 N84-11265
Comparison of the calculated properties of high-angle (001) twist boundaries in MnO, FeO, CoO and NiO with MgO
[DE83-015677] 02 p0201 N84-11307
Elastic-plastic constitutive modeling of concrete
[DE83-014547] 02 p0206 N84-11342
Chemistry of lithium alloy/iron sulfide cells
[DE83-014815] 02 p0215 N84-11408
Molecular photoionization studies
[DE83-014283] 02 p0291 N84-11905
Relativistic effects in the binding energies of few-body nuclei
[DE83-014711] 02 p0291 N84-11907
The 21st Symposium on Engineering Aspects of Magnetohydrodynamics
[DE83-014481] 02 p0296 N84-11943
Project manager's guide
[DE83-014454] 02 p0301 N84-11977
New approach to the generation of metal-bearing, medium-pore, shape-selective zeolites for Fischer-Tropsch catalysis: Spectroscopic studies of zeolites
[DE83-014344] 03 p0347 N84-12254
High-sensitivity mass spectrometry with a tandem accelerator
[DE83-017914] 03 p0350 N84-12274
Study of chromium-free and chromium-reduced steels
[DE83-016717] 03 p0353 N84-12294
Corrosion behavior of Fe-Cr-Ni-Zr alloys in aggressive environments at high temperatures
[DE83-014735] 03 p0353 N84-12297
Breakaway corrosion in mixed-gas environments
[DE83-014704] 03 p0354 N84-12299
Self-pumping impurity by in-situ metal deposition
[DE83-017937] 03 p0355 N84-12306
Engineering hot-cell windows for radiation protection
[DE83-014675] 03 p0356 N84-12319
Diffusion mass transfer of KOH through Ni/Zn battery membrane separators
[DE83-014551] 03 p0367 N84-12387
Charge characteristics of Ni/Fe traction cells
[DE83-014205] 03 p0367 N84-12389
Spallation and 14-MeV neutron irradiation of stabilized NbTi superconductors
[DE83-017973] 03 p0368 N84-12394
Comparative response of lead-acid and nickel-iron batteries to pulsed and constant-current loads
[DE83-017939] 03 p0368 N84-12395
Solid-oxide fuel-cell performance
[DE83-017926] 03 p0368 N84-12396
Development in reliability models and methods
[DE83-014683] 03 p0385 N84-12511
Analytical response of concrete structures subjected to high temperatures
[DE83-009625] 03 p0389 N84-12538
Endochronic theory of dynamic viscoplasticity
[DE83-017531] 03 p0390 N84-12546
Ragone characteristics of aqueous mobile batteries and their application in projecting ranges of electric vehicles
[DE83-014701] 03 p0404 N84-12642
Measurements, in vivo, of parameters of the dopamine system
[DE83-017964] 03 p0414 N84-12709
Applied mathematical sciences research at Argonne
[DE83-3014268] 03 p0426 N84-12788
Estimation of the ridge constant: An approach based on the condition index
[DE83-017955] 03 p0428 N84-12805
Novel interactions of the charge-balancing cations with framework defects and trapped hydrogen atoms in holmium-exchanged Y zeolites
[DE83-014204] 03 p0433 N84-12839
The 100% alignment of hydrogen excited states in beam-foil spectroscopy
[DE83-017963] 03 p0436 N84-12859
Nucleon-nucleon interactions and polarized-beam (both proton and antiproton) facilities at LAMPF 2
[DE83-017215] 03 p0436 N84-12860
Hadron-hadron collider group
[DE83-010704] 03 p0437 N84-12865
Structure of convective surface deposits and effect on MHD steam-plant design
[DE83-010757] 03 p0446 N84-12931
Tokamak fusion reactors with less than full tritium breeding
[DE83-016711] 03 p0446 N84-12936
Energy use and range of electric vehicles in selected US Department of Energy sites
[DE83-015719] 03 p0461 N84-13034
Quantum-mechanical calculations of the properties of liquid He droplets
[DE84-000164] 04 p0491 N84-13220
Electron-energy-loss spectral library and its application to materials science
[DE84-000588] 04 p0494 N84-13241
Corrosion of ferrous alloys in eutectic lead-lithium environments
[DE84-000593] 04 p0502 N84-13292
Influence of a flowing-lithium environment on the fatigue and tensile properties of type 316 stainless steel
[DE84-000611] 04 p0503 N84-13295
Field maintenance of radiation-shielding windows at HFEF
[DE83-015376] 04 p0507 N84-13326
Annotated bibliography of battery evaluations
[DE84-000653] 04 p0527 N84-13466
Solid-oxide fuel cells
[DE83-017925] 04 p0527 N84-13469
Application features and considerations in advanced lead-acid and nickel/iron EV batteries
[DE83-017936] 04 p0528 N84-13472
Moltencarbonate fuel cells, development status
[DE84-000612] 04 p0529 N84-13480
Solubility of the NiO fuel-cell cathode in Li2CO3 melts as determined by cyclic voltammetry
[DE83-014311] 04 p0530 N84-13485
Computations of turbulent recirculating flows with fully coupled solution of momentum and continuity equations
[DE84-001529] 04 p0535 N84-13518
Fully-coupled solution of pressure-linked fluid flow equations
[DE83-017989] 04 p0536 N84-13527
Narrow-band, near-UV, high-repetition-rate laser-induced fluorescence system for use as an dge diagnostic in fusion machine
[DE84-000586] 04 p0542 N84-13567
Oxygen-18 measurements in the assessment of natural and anthropogenic sulfur in the environment
[DE84-000566] 04 p0560 N84-13690

The effects of relaxing automobile emission standards: A generic analysis and an urban case study
[DE84-000193] 04 p0560 N84-13693
Surface heat flux derived from sodar amplitude and frequency data: A comparison
[DE83-017930] 04 p0564 N84-13717
A comparison of frequency determination using real sodar data
[DE83-017942] 04 p0564 N84-13718
Computer software summaries, numbers 424 through 693
[DE83-015297] 04 p0581 N84-13834
Participation of VAX VMS computers in IBM file-transfer networks
[DE83-017945] 04 p0581 N84-13838
Algorithms for automated diagnosis of faults in physical plant
[DE84-000192] 04 p0582 N84-13841
CEREAS: An interactive computer-mapping system for environmental assessments
[DE83-017927] 04 p0585 N84-13864
Averaging procedures of multiphase conservation equations
[DE83-014698] 04 p0592 N84-13908
Development of ultrasonic methods for the nondestructive inspection of concrete
[DE83-017923] 04 p0595 N84-13929
The 3-body forces, relativistic effects, isobars, and pions in nuclear systems
[DE84-000163] 04 p0597 N84-13938
ASPUN, Argonne super intense pulsed pallation neutron source
[DE84-000311] 04 p0597 N84-13941
Meson-exchange Hamiltonian for NN scattering and isobar-nucleus dynamics
[DE83-017974] 04 p0600 N84-13959
Relativistic-beam pickup test facility
[DE83-017929] 04 p0600 N84-13962
Multiquark exotics
[DE83-017958] 04 p0601 N84-13964
Neutron total cross section measurements in the energy region from 47 keV to 20 MeV
[DE84-001400] 04 p0601 N84-13970
Proceedings of the Summer Workshop on Proton Decay Experiments
[DE83-009572] 04 p0603 N84-13980
Neutron measurements and radiation damage calculations for fusion materials studies
[DE83-014790] 04 p0608 N84-14011
Comparison of measured and calculated helium production in nickel using newly evaluated neutron cross sections for (58)Ni
[DE84-000565] 04 p0611 N84-14035
Host-lattice effects in the spin-orbit fine structure of vacancy-trapped electrons
[DE84-000599] 04 p0614 N84-14052
Magnetic properties of Mo/Ni superlattices
[DE84-000568] 04 p0614 N84-14053
Neutron-scattering studies of magnetic superconductors
[DE84-000393] 04 p0614 N84-14054
Tools for the creation of IMS database designs from Entity-Relationship diagrams
[DE84-000592] 04 p0616 N84-14066
Energy-efficient automobiles for the future
[DE84-000600] 04 p0617 N84-14073
Elastic moduli of H2O: Liquid, ice 6 and ice 7
[DE83-017960] 05 p0652 N84-14284
Advanced fuel-cell development
[DE84-002685] 05 p0676 N84-14445
Full- and half-range theory of indefinite Sturm-Liouville problems
[DE84-001672] 05 p0741 N84-14869
Coupling between angular deflection and eddy currents in the FELIX plate experiment
[DE84-001509] 05 p0750 N84-14927
Lattice dynamics of the mixed-conducting intermetallic compound alpha-LiAl
[DE83-014334] 05 p0756 N84-14959
Measuring energy use in urban travel using a sketch planning model
[DE83-015375] 05 p0761 N84-14992
Fully coupled calculation of fluid flows with limited use of computer storage
[DE84-002218] 06 p0844 N84-15508
Tube vibration in industrial-size test heat exchanger (90 deg square layout)
[DE83-011931] 06 p0862 N84-15614
Muons and electrons in general
06 p0914 N84-15938
Angular coverage of detectors
06 p0914 N84-15940
Photoelectron studies of resonant multiphoton ionization of CO via the A-1 Pi state
[DE83-006535] 06 p0916 N84-15956
High-resolution solid-state (13)C NMR study of the templating cations in tetrapropylammonium fluoride silicalite: The effect of steric interactions
[DE83-011706] 06 p0925 N84-16013
Future search for grand unified theory magnetic monopoles
[DE83-009451] 06 p0926 N84-16015
Dynamics of tubes in fluid with tube-baffle interaction
[DE84-001452] 07 p1003 N84-16508
Role of geomorphic thresholds in determining alluvial channel morphology
[DE84-003627] 07 p1034 N84-16708
Rush field experiments: Growth and initial decay of the mixed layer over an autumn landscape
[DE84-001671] 07 p1040 N84-16743
Software parts in FORTRAN 8X
[DE84-003621] 07 p1055 N84-16833
Brighter H(-) source for the intense pulsed neutron source accelerator system
[DE84-003606] 07 p1072 N84-16965
Performance of the intense pulsed neutron source accelerator system
[DE84-003607] 07 p1072 N84-16966
General cases of the pseudoquadrupole interaction in (169)T-m
[DE83-015685] 07 p1082 N84-17040
Theory of elementary excitations in intermediate valence materials
[DE84-003705] 07 p1083 N84-17044
Modification of alloy surface composition by segregation processes as a means of impurity control in fusion devices
[DE84-003645] 08 p1134 N84-17373
Segregation of Zn solutes to high-angles (001) twist grain boundaries in Al
[DE84-003455] 08 p1134 N84-17375
Effects of nominal and crack-tip strain rate on IGSCC susceptibility in CERT tests
[DE84-004006] 08 p1135 N84-17378
Study of ion bombardment-induced subsurface compositional modifications in Ni-Cu alloys at elevated temperatures by ion scattering spectroscopy
[DE84-003632] 08 p1135 N84-17380
Aging degradation of cast stainless steel: Status and program
[DE84-004018] 08 p1135 N84-17381
State-of-the-art of solid-state motor controllers. Part 4: Failure-rate and failure-mode data
[DE84-001022] 08 p1152 N84-17502
Leakage flow-induced vibrations of reactor components 08 p1168 N84-17611
Empirical analysis of meandering and flow characteristics in laboratory and natural channels
[DE84-003461] 08 p1179 N84-17679
Evaluation of wind field interpolation schemes used in studies of regional-scale pollutant transport
[DE84-003634] 08 p1182 N84-17699
Estimation of North America anthropogenic sulfur deposition as a function of source/receptor separation
[DE84-003638] 08 p1182 N84-17701
Comparison of organisms and cell types using two-dimensional electrophoresis
[DE84-003574] 08 p1197 N84-17807
Proposed second harmonic acceleration system for the intense pulsed neutron source rapid cycling synchrotron
[DE84-003601] 08 p1230 N84-18036
Velocity and electronic state distributions of sputtered Fe atoms by laser-induced fluorescence spectroscopy
[DE84-003649] 08 p1230 N84-18040
Preliminary tests of a second harmonic RF system for the intense pulsed neutron source synchrotron
[DE84-003595] 08 p1230 N84-18041
Crystal fields and second order magnetic hyperfine interactions in TmFe2Si2
[DE84-003622] 08 p1236 N84-18078
Diffusion mechanisms in transition-metal oxides
[DE84-003460] 08 p1236 N84-18081
Evaluation of stainless steel pipe cracking: Causes and fixes
[DE84-003459] 09 p1285 N84-18391
Corrosion and oxidation of vanadium-base alloys
[DE84-003266] 09 p1285 N84-18393
Lithium/iron sulfide batteries for electric-vehicle propulsion and other applications
[DE84-004193] 09 p1310 N84-18565
Acoustic leak detection and ultrasonic crack detection
[DE84-004037] 09 p1328 N84-18670
Acidic deposition effects on vegetation: A review and analysis of methodology
[DE84-004014] 09 p1343 N84-18769
Squeezing the most out of an algorithm in Cray FORTRAN
[DE84-003871] 09 p1369 N84-18941
Melting of electrons on corrugated surfaces: Structural and dynamical properties in liquid and solid phases
[DE84-004023] 09 p1397 N84-19122
Laminarization effects on the dynamics of a disk levitated by incompressible fluid flow
[DE84-003612] 10 p1494 N84-19770
Instability of circular cylinder arrays in cross flow
10 p1506 N84-19847
Ultrastructural effects of radiation on cells and tissues: Concluding remarks
[DE84-003454] 10 p1545 N84-20131
Approach to programming multiprocessing algorithms on the Denelcor HEP
[DE84-005440] 10 p1565 N84-20251
Blanket comparison and selection study, volume 1
[DE84-003657] 10 p1585 N84-20392
Advanced numerics for multi-dimensional fluid flow calculations 11 p1610 N84-20539
Intergranular crack propagation rates in sensitized Type 304 stainless steel in an oxygenated water environment
[DE84-005311] 11 p1635 N84-20688
Solar pond performance estimation, engineering design, and construction experience
[DE84-003992] 11 p1674 N84-20924
Design of the near shore seawater systems for an OTEC expanded test facility
[DE84-004043] 11 p1674 N84-20926
Meteorologically induced uncertainty in LRT modeling
[DE84-003444] 11 p1676 N84-20935
Remote sensing of winds and turbulence above complex terrain during ASCOT-1980
[DE84-004231] 11 p1688 N84-21009
Minimax solution of a nonlinear system of mixed equalities and inequalities
[DE84-003870] 11 p1709 N84-21137
EISPACK: A package for solving matrix eigenvalue problems
[DE84-005408] 11 p1717 N84-21197
Magnet design approach for pulsed Tokamak reactors
[DE84-005261] 11 p1738 N84-21341
Impact of monoblock design and battery packaging on temperature excursion of nickel/iron batteries
[DE84-006444] 12 p1813 N84-21821
Air- versus liquid-based solar-energy systems: A comparison of measured thermal performances
[ANL-83-45] 12 p1838 N84-21978
Installation representative guide
[DE83-008451] 12 p1878 N84-22241
Molecular dynamics studies of structural transformation in solids
[DE84-006409] 12 p1916 N84-22481
Description of the ACCESS data acquisition system
[DE84-005758] 12 p1919 N84-22506
Resistance characterization of nickel sulfide electrodes in LiCl-containing molten salt electrolytes
[DE84-006734] 13 p1987 N84-22898
Untapped midwestern wind energy resource: Nocturnal low-level wind maxima
[DE84-006424] 13 p2017 N84-23077
Geometric rationale for hydrogenated Pd3P/sub 1-x
[DE84-006737] 13 p2048 N84-23288
Application of NDE methods to green ceramics: Initial results
[DE84-006411] 14 p2130 N84-23769
Portable device for detecting and identifying hazardous vapors
[DE84-003640] 14 p2148 N84-23870
Relativistic correlation theory of atomic structures
[DE84-006745] 14 p2230 N84-24372
Ion-induced surface modification of alloys
[DE84-006664] 14 p2243 N84-24468
Role of Schottky disorder on the stability and structure of (100) twist grain boundaries in NiO
[DE84-006447] 14 p2243 N84-24469
Testing and evaluation of EV-1300 lead-acid modules for the hybrid vehicle application
[DE84-006718] 14 p2249 N84-24510
The influence of Al2O3 and surface scales on alloy degradation at elevated temperatures
[DE84-007299] 15 p2298 N84-24794
Effect of sulfuric acid, oxygen, and hydrogen in high-temperature water on stress corrosion cracking of sensitized Type 304 stainless steel
[DE84-007276] 15 p2298 N84-24795
In-situ measurements of bronze deterioration
[DE84-007300] 15 p2299 N84-24796
Fluid forces on a rigid cylinder in turbulent crossflow
[DE84-006364] 15 p2333 N84-25012
Thermal energy storage in molten-salt systems for solar central receivers: The federal role in research and development
[DE84-007433] 15 p2364 N84-25185
Energy transfer in real and artificial photosynthetic systems
[DE84-007278] 15 p2378 N84-25275
Portable environment for research in automated reasoning
[DE84-009212] 15 p2396 N84-25372

Fast ion atomic spectroscopy
[DE84-006720] 15 p2404 N84-25432
Interactions of fast atomic and molecular ions with matter
[DE84-006555] 15 p2405 N84-25438
Electric-dipole moment of CaF by molecular-beam, laser-RF, double-resonance study of Stark splittings
[DE84-005413] 15 p2405 N84-25439
Spiral Kicker for the beam abort system
[DE84-007267] 15 p2406 N84-25442
Shape resonances in molecular fields
[DE84-009206] 15 p2406 N84-25443
Magnetohydrodynamic power generation, electromagnetic pumps, heat pipes, and thermionic convertors
[DE84-009195] 15 p2411 N84-25475
Electron scattering: Lectures given at ANL
[DE84-006689] 15 p2414 N84-25491
Guide to reporting time in the financial information system at ANL
[DE84-009356] 15 p2419 N84-25524
System/battery design interaction for a lithium-metal sulfide van battery
[DE84-007274] 15 p2421 N84-25537
Use of the Li-Al/FeS battery in advanced vehicle propulsion systems
[DE84-007275] 15 p2421 N84-25538
Application of NDE methods to green ceramics: Initial results
[DE84-010571] 18 p2819 N84-27898
Advanced fuel cell development
[DE84-008964] 18 p2834 N84-27994
Metal dissolution kinetics in halide melts
[DE84-004030] 19 p2995 N84-28977
Chopper spectrometers
[DE84-009205] 19 p3026 N84-29193
Data needs for the track structure of alpha particles and electrons in water
[DE84-009154] 19 p3103 N84-29710
Rationalizing the hydrogen sites in Pd3P sub 1-xH sub y
[DE84-009159] 19 p3112 N84-29774
Oxidation-sulfidation behavior of Fe-Cr-Ni alloys containing additions of Zr, Nb, or Ti
[DE84-005411] 20 p3156 N84-30043
Application of transverse-section analytical electron microscopy to the study of oxidation of metal alloys
[DE84-006415] 20 p3157 N84-30049
Advanced battery development in the US
[DE84-010505] 20 p3179 N84-30190
New 1-phase dual converter for superconducting inductive energy storage and transfer applications: The 1-phase inductor-converter bridge
[DE84-012118] 20 p3179 N84-30193
Thermal laminarization of a stratified pipe flow
[DE84-006407] 20 p3185 N84-30236
Experiments on tubes conveying fluid
[DE84-004031] 20 p3185 N84-30237
Numerical treatment of pipe boundary conditions in two-phase flow
[DE84-006553] 20 p3185 N84-30238
Stability of tubes conveying fluid
[DE84-010573] 20 p3185 N84-30240
Flow Induced Vibration Program at Argonne National Laboratory
[DE84-009233] 20 p3187 N84-30249
Active ultrasonic cross-correlation flowmeters for mixed-phase pipe flows
[DE84-006449] 20 p3189 N84-30260
Determination of thermal-degradation rates of some candidate Rankine-cycle organic working fluids for conversion of industrial waste heat into power
[DE84-009585] 20 p3197 N84-30304
Logic machine architecture inference mechanisms: Layer 2 user reference manual release 2.0
[DE84-012115] 20 p3267 N84-30728
Guide to graphics at ANL, revised
[DE84-013189] 20 p3274 N84-30786
Argonne integrated heterogeneous file transfer network
[DE84-012092] 20 p3277 N84-30803
Design philosophy for reliable systems, including control
[DE84-012681] 20 p3279 N84-30814
High-current, low-energy synchrotrons and compressor rings
[DE84-012104] 20 p3293 N84-30906
Comparison of some SSC beam parameters for pp and anti pp
[DE84-010729] 20 p3293 N84-30908
Photoelectron studies of excited molecular states: H2 C (1)Pi(sub u) and N2 o3 (1)Pi(sub u)
[DE84-006683] 20 p3294 N84-30917
Photoionization of excited molecular states using multiphoton excitation techniques
[DE84-004034] 20 p3296 N84-30925
Modeling the interaction of high power ion or electron beams with solid target materials
[DE84-009126] 20 p3296 N84-30931
Liquid metal breeder-coolant blanket concept
[DE84-006554] 20 p3302 N84-30971
Cation self-diffusion in Fe2O3
[DE84-009152] 20 p3310 N84-31025
Renormalized action improvements
[DE84-011810] 20 p3311 N84-31028
High-resolution spectroscopy and dynamics of multiphoton processes in atoms and molecules
[AD-A143017] 21 p3359 N84-31303
Use of pulse radiolysis to measure high temperature kinetics
[DE84-011702] 21 p3361 N84-31324
Hard Coatings for Tribological Systems Operating under Extreme Conditions
[DE84-009660] 21 p3368 N84-31369
Economics of hydrogen production: The next 25 years
[DE84-007279] 21 p3374 N84-31414
Glass electrolytes for sodium/sulfur cells
[DE84-013428] 21 p3394 N84-31539
Molten carbonate fuel cell cathode development
[DE84-012101] 21 p3395 N84-31544
A computerized system for establishing electric-vehicle battery requirements
[DE84-011728] 21 p3395 N84-31545
Efficient finite-difference calculation procedure for multi-dimensional fluid flows
[DE84-011710] 21 p3401 N84-31577
Thermal oscillations downstream of an elbow in stratified pipe flow
[DE84-006550] 21 p3401 N84-31579
The geology and petroleum resources of basins in the Asian Arctic and offshore east Greenland
[DE84-012114] 21 p3431 N84-31772
Geology hydrology and mineral resources of crystaline rock areas of Northeastern US
[DE84-013671] 21 p3432 N84-31774
Geology, hydrology, and mineral resources of crystalline rock areas of the Lake Superior region, US, part 1
[DE84-012682] 21 p3432 N84-31775
Ocean thermal energy conversion: Materials issues
[DE84-012094] 21 p3434 N84-31790
Magnetically confined kinetic-energy storage ring: A new fundamental energy-storage concept
[DE84-011531] 21 p3435 N84-31793
Ten-year forecasts of water quality in Lake Michigan using a deterministic eutrophication model
[DE84-011425] 21 p3437 N84-31804
CO2 forecasting and control: A mathematical approach
[DE84-013454] 21 p3449 N84-31882
Concept of a superconducting linac for low-velocity ions
[DE84-011740] 21 p3496 N84-32154
Surplus Facilities Management Program. Post-remedial-action survey report for SNAP-8 Experimental Reactor Facility, building 010 site, Santa Susana Field Laboratories, Rockwell International, Ventura County, California
[DE84-009591] 21 p3497 N84-32165
Point defects and diffusion mechanisms in the monoxides of the iron-group metals
[DE84-012105] 21 p3505 N84-32210
Nonequilibrium segregation and phase instability in alloy films during elevated-temperature irradiation in a high-voltage electron microscope
[DE84-013423] 21 p3505 N84-32214
Predictions of entropies of molecules and liquids
[DE84-010504] 21 p3507 N84-32216
Galactic cycles and their relationship to life on Earth
[DE84-011737] 21 p3525 N84-32329
Three-dimensional model for fusion processes
[DE84-011731] 21 p3526 N84-32339
Chemical stability of beta-aluminum
[DE84-009635] 22 p3560 N84-32545
Investigation of thermal stability of fluorinol-85 and 2-methylpyridine-water as Rankine cycle power system working fluids
[DE84-006420] 22 p3562 N84-32559
Modeling of concrete response at high temperature
[DE84-009587] 22 p3564 N84-32570
Lithium-alloy/metal sulfide battery research
[DE84-013427] 22 p3587 N84-32720
Effects of standtime on the available capacity of lead-acid and nickel/iron electric vehicle batteries
[DE84-013452] 22 p3587 N84-32721
Thermal management of a lithium/iron-sulfide battery
[DE84-013438] 22 p3587 N84-32722
Recent results from the National Battery Test Laboratory
[DE84-012110] 22 p3588 N84-32729
Characterization of voltage losses during high-intensity current pulses in reactive, porous electrodes of molten salt cells
[DE84-012112] 22 p3589 N84-32730
Electrochemical performance of porous nickel sulfide electrodes
[DE84-009586] 22 p3590 N84-32741
Sloshing response of a reactor tank with internals
[DE84-009629] 22 p3595 N84-32766
Heat transfer with phase change in plate-fin heat exchangers
[DE84-006405] 22 p3596 N84-32771
SEAMOPT: Sterling engine optimization code
[DE84-012098] 22 p3605 N84-32840
Uncertainty covariances in robotics applications
[DE84-013417] 22 p3605 N84-32843
Geology, hydrology, and mineral resources of crystalline rock areas of the northeastern United States
[DE84-013672] 22 p3614 N84-32901
Crystalline rocks of the Northeastern United States
[DE84-013673] 22 p3624 N84-32962
Coupling of Rayleigh-like waves with zero sound modes in normal He-3
[DE84-010519] 22 p3653 N84-33153
Present status and probable future capabilities of heavy-ion linear accelerators
[DE84-011741] 22 p3653 N84-33158
Research on Instrumentation, Testing and Evaluation
[DE84-014859] 23 p3727 N84-33616
Thermodynamic analysis of multicomponent working fluids for Rankine bottoming cycle applications
[DE84-014843] 23 p3757 N84-33814
Dynamic characteristics of heat exchanger tubes vibrating in a tube support plate inactive mode
[DE84-014844] 23 p3761 N84-33840
Crystalline rocks of the Lake Superior region, United States, part 2
[DE84-014802] 23 p3799 N84-34087
Implementation of monitors with macros: A programming aid for the HEP and other parallel processors
[ANL-83-97] 23 p3817 N84-34200
Prospect of polarized targets in electron rings
[DE84-014684] 23 p3823 N84-34245
Weak coupling tests of lattice QCD
[DE84-013440] 23 p3831 N84-34299

ARINC RESEARCH CORP., ANNAPOLIS, MD.

Automated data base implementation requirements for the avionics planning baseline, Army
[AD-A135259] 08 p1240 N84-18103
Assessment of the NASA Flight Assurance Review Program
[NASA-CR-173418] 13 p2066 N84-23401
Evaluation of strategies to enhance departure sequencing
[AD-A140710] 17 p2605 N84-26689
Cockpit data management requirements (current technology aircraft)
[AD-A140643] 17 p2607 N84-26699
Unit production cost of the radar beacon transponder (Rbx)
[AD-A121532] 17 p2652 N84-26956
Cost analysis of Mode S data link avionics system for the low-performance general aviation aircraft community
[DOT/FAA/PM-83/38] 18 p2795 N84-27735
Standard avionics software: The future strategy for cost-effective avionics
[AD-P003582] 21 p3339 N84-31187

ARIZONA STATE OFFICE OF ECONOMIC PLANNING AND DEVELOPMENT, PHOENIX.

Arizona State science, engineering and technology process
[PB83-237107] 03 p0458 N84-13016

ARIZONA STATE UNIV., TEMPE.

On the CO2 laser generated channel conductivity and electron beam ionization of ammonia
[AD-A131591] 02 p0225 N84-11478
Atomic and electronic structure of defects in semiconductors
[AD-A131539] 02 p0299 N84-11960
Erosion and transport of eolian materials on Mars
[NASA-CR-174569] 02 p0308 N84-12019
Hydrodynamic simulations of a combined hydrogen, helium thermonuclear runaway on a 10 km neutron star
[DE83-012658] 03 p0463 N84-13047
Galilean satellite geomorphology
[NASA-CR-174574] 03 p0464 N84-13057
Positive biharmonic functions
04 p0575 N84-13786
On some issues concerning optimization and decision trees
[AD-A134109] 05 p0733 N84-14815
An overview of the quasi-optimizer system
[AD-A133763] 05 p0739 N84-14856

Theoretical calculation of rapid X-ray transients and radius expansion
[DE84-001312] 06 p0941 N84-16114
Forced convection heat transfer to air/water vapor mixtures
[NASA-CR-3769] 07 p1000 N84-16488
Impact experiments in viscous fluid media
[NASA-CR-173196] 07 p1040 N84-16745
Martian surface properties
[NASA-CR-173197] 07 p1091 N84-17091
Human factors issues associated with the use of speech technology in the cockpit
[NASA-CR-166548] 08 p1143 N84-17433
Intelligent editor/printer enhancements
[NASA-CR-170965] 09 p1364 N84-18909
Approaches to automatic strategy analysis and synthesis
[AD-A137067] 10 p1573 N84-20312
Characteristics of inhomogeneous jets in confined swirling air flows 11 p1612 N84-20550
Feasibility study to conduct windblown sediment experiments aboard a space station
[NASA-CR-175434] 12 p1776 N84-21586
Fundamentals of metal-semiconductor contacts 12 p1838 N84-21985
Wind abrasion on Venus: A means for experimental investigations 13 p2076 N84-23455
Aeolian processes on Venus 13 p2076 N84-23456
Morphology of fresh craters on Ganymede and the origin of pedestal craters 13 p2078 N84-23466
The 1950 sulfur flow of Mauna Loa: Considerations for Io 13 p2080 N84-23479
Experiments on water/melt explosions, nature of products, and models of dispersal 13 p2081 N84-23483
Ridges on basalt flows 13 p2081 N84-23484
Velocities of windblown particles in saltation: Venus, Earth, and Mars 13 p2082 N84-23491
Desert pavement study at Amboy, California 13 p2082 N84-23492
Planetary geomorphology field studies: Washington and Alaska 13 p2084 N84-23501
Planetary geomorphology field studies: Iceland and Antarctica 13 p2086 N84-23514
Thermal infrared analysis of volcanic surfaces: Mars and Hawaii 13 p2088 N84-23524
Pinacate-Gran Desierto Region, Mexico: SIR-A data analysis 13 p2088 N84-23526
Radar-visible wind streaks in the Altiplano of Bolivia 13 p2088 N84-23527
Revegetation methods for arid areas, revised
[AD-A139088] 14 p2170 N84-23997
Enhanced solar energy collection in porphyrin based photoconversion schemes
[DE84-006682] 14 p2173 N84-24015
Biochemical measurements of the human stress response
[AD-A139381] 14 p2184 N84-24089
Influence of soft inclusions on the strength of wrought materials
[NASA-CR-173610] 16 p2464 N84-25791
Tensile fracture of ductile materials
[NASA-CR-173607] 16 p2464 N84-25792
Physiological assessment of aircraft pilot workload in simulated landing and simulated hostile threat environments
[AD-A140469] 16 p2538 N84-26297
The emission line spectra of cataclysmic variable accretion disks 16 p2576 N84-26533
Modeling and simulation of lead-acid batteries for photovoltaic systems 17 p2722 N84-27326
10: Models of volcanism and interior structure 17 p2777 N84-27634
An experimental investigation of gas jets in confined swirling air flow
[NASA-CR-3832] 23 p3694 N84-33412

ARIZONA UNIV., TUCSON.

LANDSAT-4 thematic mapper Modulation Transfer Function (MTF) evaluation
[E84-10014] 02 p0236 N84-11552
Infrared observations of cometary solids 02 p0304 N84-11997
In-flight absolute radiometric calibration of the thematic mapper
[E84-10044] 04 p0552 N84-13637
Spectroradiometric calibration of the thematic mapper and multispectral scanner system
[E84-10045] 04 p0552 N84-13638
Respiratory effects on population from low-level exposures to ozone
[PB83-246132] 04 p0573 N84-13774
Measurements of optical properties of particulates in an arid region
[AD-A132889] 05 p0709 N84-14844
Applications of hybrid numerical-simulation methods to magnetic-confinement systems
[DE84-001840] 05 p0750 N84-14922
Effects of wall interference on unsteady transonic flows 06 p0779 N84-15105
In-flight absolute radiometric calibration of the thematic mapper
[E84-10064] 06 p0865 N84-15633
A numerical investigation of the formation of secondary vortices in laboratory-simulated tornadoes 06 p0880 N84-15725
Investigation of several aspects of LANDSAT-4 data quality
[E84-10076] 07 p1021 N84-16623
Artificially layered superconductors
[DE84-002768] 07 p1082 N84-17037
Geophysical exploration surveys for ground water in the San Pedro Basin, Arizona
[PB84-110808] 08 p1179 N84-17684
Metabolic alterations caused by suspension hypokinesia in leg muscles of rats 09 p1354 N84-18848
Appropriateness of the small-cage-reared rat as a model for the study of altered-activity effects 09 p1354 N84-18851
Information content and sensitivity of matrix elements to structural changes in complex scattering system
[AD-A136600] 09 p1388 N84-19068
Creep-rupture reliability analysis
[NASA-CR-3790] 10 p1516 N84-19925
Development INTERDATA 8/32 computer system
[NASA-CR-175425] 10 p1556 N84-20197
Optical processing in radon space
[AD-A137033] 10 p1579 N84-20343
Spectroradiometric calibration of the thematic mapper and multispectral scanner system
[NASA-CR-175405] 11 p1671 N84-20905
Design of array processor software for nonlinear structural analysis
[AD-A137767] 11 p1706 N84-21124
Optical bistability: A novel approach to optical signal processing and communications 12 p1905 N84-22411
Structural and electronic properties of artificial metallic superlattices
[DE84-002771] 12 p1915 N84-22477
Computer controlled laser optoacoustic spectroscopy for trace gas analysis 13 p1955 N84-22710
Spectroradiometric calibration of the Thematic Mapper and multispectral scanner system
[E84-10098] 13 p2004 N84-23000
Sensor radiance for a midlatitude atmospheric model 13 p2004 N84-23001
In-flight absolute radiometric calibration of the Thematic Mapper 13 p2004 N84-23002
Sedimentary response to eocene tectonic rotation in western Oregon 13 p2013 N84-23063
Feasibility studies of optical processing of image bandwidth compression schemes
[AD-A138736] 13 p2043 N84-23254
Theoretical predictions for the phase stability of dense binary mixtures 13 p2072 N84-23428
Modeling Io volcanism: Maximum volcanic temperatures, depths of melting and magma composition 13 p2073 N84-23436
Martian crater size distributions and terrain age 13 p2077 N84-23462
Fluvial erosion of impact craters: Earth and Mars 13 p2083 N84-23494
The Corfu landslide: Analog to giant landslides on Mars 13 p2086 N84-23513
A tectonic geomorphological classification of the walls of Valles Marineris 13 p2087 N84-23518
Geologic investigations of outer planets satellites
[NASA-CR-173497] 13 p2091 N84-23544
The stability of inviscid vortex streets of finite cored vortices
[AD-A139311] 14 p2145 N84-23855
Investigation of several aspects of LANDSAT-4 data quality
[E84-10122] 14 p2167 N84-23981
Chaos in optical bistability 14 p2232 N84-24388
Fluctuations in optical bistability: Experiment with shot noise 14 p2232 N84-24392
Advances in GaAs bistable optical devices 14 p2233 N84-24394
Room-temperature thermal optical bistability in thin-film interference filters and dye-filled etalons 14 p2234 N84-24402
Self-defocusing and optical crosstalk in a bistable optical etalon 14 p2234 N84-24403
Routes to optical turbulence in a dispersive ring bistable cavity containing saturable nonlinearities 14 p2234 N84-24404
Distributed feedback bistability in channel waveguides 14 p2236 N84-24417
Optical nonlinearity and bistability due to the biexciton two-photon resonance in CuCl 14 p2239 N84-24441
Transverse solitary waves in a dispersive ring bistability cavity containing a saturable nonlinearity 14 p2240 N84-24446
Research on new, fast, direct-executing programs for multiple microprocessor systems
[PB84-162791] 15 p2393 N84-25364
Development of an interferometric technique for reduction of background radiation at 10 micrometers
[AD-A140081] 15 p2408 N84-25455
Spatial distribution of craters on the Moon and Callisto 15 p2426 N84-25574
Callisto: A lunar-like bombardment? 15 p2426 N84-25575
Spectroradiometric calibration of the Thematic Mapper and Multispectral Scanner system
[E84-10136] 16 p2506 N84-26084
A triangular anistropic thin shell element based on discrete Kirchoff theory 17 p2678 N84-27060
Post-buckling behavior of elastic frame structures 17 p2679 N84-27062
Innovative research in the design and operation of large telescopes for space: Aspects of giant telescopes in space 17 p2765 N84-27560
RIMSTAR: Rapid image scanning technology and archiving 18 p2843 N84-28055
The use of radar in modern meteorology 18 p2886 N84-28315
Information search in judgment tasks: The effects of unequal cue validity and cost
[AD-A141712] 19 p3063 N84-29437
In-flight absolute radiometric calibration of the Thematic Mapper 20 p3208 N84-30383
MTF analysis of LANDSAT-4 Thematic Mapper 20 p3209 N84-30388
Studies of X-ray clusters of galaxies/intergalactic plasmas
[NASA-CR-173825] 20 p3319 N84-31068
Double arch mirror study. Part 1: Preliminary engineering report
[NASA-CR-166589-PT-1] 21 p3412 N84-31634
Double arch mirror study. Part 2: Engineering analysis report
[NASA-CR-166589-PT-2] 21 p3412 N84-31635
Double arch mirror study. Part 3: Fabrication and test report
[NASA-CR-166589-PT-3] 21 p3412 N84-31636
Double arch mirror study
[NASA-CR-166589] 21 p3412 N84-31637
LANDSAT-4 Thematic Mapper Modulation Transfer Function (MTF) evaluation
[E84-10188] 21 p3430 N84-31759
Investigation of several aspects of LANDSAT 4/5 data quality
[E84-10024] 22 p3613 N84-32892
Solar variability observed through changes in solar figure and mean diameter
[DE84-013914] 22 p3680 N84-33328
Recovery of spectral optical depth and zero-airmass solar spectral irradiance under conditions of temporally varying optical depth 23 p3775 N84-33930
Transient response from thin dyke in the Earth for loop excitation 23 p3776 N84-33941
The optical characteristics of lightning 24 p3927 N84-34858
Analytic solution of the Spencer-Lewis angular-spatial moments equations
[AD-A144609] 24 p3962 N84-35089

ARIZONA WATER RESOURCES RESEARCH CENTER, TUCSON.

Geophysical exploration surveys for ground water in the San Pedro Basin, Arizona
[PB84-110808] 08 p1179 N84-17684
Estimation of recharge in a small southern Arizona basin by means of hydrological, hydrochemical, and environmental isotope data
[PB84-159672] 20 p3230 N84-30527

ARKANSAS UNIV., FAYETTEVILLE.

Study of a pulse width modulated, telemetered, microprocessor based data acquisition system 08 p1114 N84-17247
Data documentation for the bare soil experiment at the University of Arkansas, June - August 1980
[NASA-CR-173325] 09 p1336 N84-18725
Inversion algorithms for the microwave remote sensing of soil moisture. Experiments with swept frequency microwaves
[NASA-CR-173323] 09 p1336 N84-18726
Statistical modeling of space shuttle environmental data
[NASA-CR-170940] 10 p1573 N84-20304
A method for determining if unequal shape parameters are necessary in a bivariate gamma distribution 10 p1573 N84-20306
Analysis of wind gust data 10 p1573 N84-20308

Adaptive hybrid picture coding
[AD-A138876] 13 p2033 N84-23184
Optical bistability, chaos in the coherent two photon processes 14 p2231 N84-24384
Multistability, self-oscillation and chaos in nonlinear optics 14 p2232 N84-24387
Digital color space transformations 23 p3779 N84-33960

ARMAGH OBSERVATORY (NORTHERN IRELAND).
IUE observations of BY Draconis 24 p3975 N84-35176
Rotational modulation of spots and plages on RSCVn stars 24 p3978 N84-35196

ARMED FORCES MEDICAL INTELLIGENCE CENTER, FORT DETRICK, MD.
Military deception: A clinical psychological analysis
[AD-P003239] 18 p2902 N84-28406

ARMED FORCES RADIOBIOLOGY RESEARCH INST., BETHESDA, MD.
Kerma factors for use in 37-group neutron spectrum calculations
[AD-A139033] 13 p2041 N84-23240
Comparative effects of bremsstrahlung, gamma, and electron radiation on rat motor performance
[AD-P003250] 18 p2904 N84-28417
The interactive effects of morphine and ionizing radiation on the latency of tail-withdrawal from warm water in the rat
[AD-P003251] 18 p2904 N84-28418
Quaternary naltrexone reverses radiogenic and morphine-induced locomotor hyperactivity
[AD-P003252] 18 p2905 N84-28419
The toxicity of petroleum and shale JP5
[AD-A142670] 20 p3260 N84-30690
Karnovsky-osmium as a primary fixative for electron microscopy
[AD-A142671] 20 p3300 N84-30957
LINAC facility at Armed Forces Radiobiology Research Institute
[AD-A143970] 23 p3822 N84-34239
Methods for use of the single-electrode voltage clamp
[AD-A144177] 24 p3897 N84-34676

ARMS CONTROL AND DISARMAMENT AGENCY, WASHINGTON, D. C.
Theory and applications of random fields
[AD-A142346] 20 p3283 N84-30847

ARMY AEROMEDICAL RESEARCH LAB., FORT RUCKER, ALA.
Impact and vibration testing of a modified UH-1 crew seat
[AD-A130279] 01 p0117 N84-10760
Extent of hearing loss among Army aviators at Fort Rucker, Alabama
[AD-A132069] 03 p0415 N84-12714
Helicopter In-flight Monitoring System second generation (HIMS 2)
[AD-A132498] 04 p0483 N84-13179
Selected factors affecting aircrew performance during sustained operations 11 p1698 N84-21074
UH-60 shoulder harness lead-in strap failure analysis
[AD-A138014] 12 p1867 N84-22170
Comparison of real-ear attenuation characteristics of the standard SPH-4 earcup and a prototype crushable earcup
[AD-A138042] 12 p1868 N84-22171
Effects of extended use of AN/PVS-5 night vision goggles on helicopter pilots' performance
[AD-A138126] 12 p1868 N84-22173
Aeromedical support in military helicopter operations 16 p2536 N84-26280
In-flight evaluation of 2 molecular sieve oxygen concentration systems in US Army aircraft (JUH-1H and JU-21G)
[AD-A140634] 17 p2748 N84-27443
Automatic gain control circuit for video signals of scenes of varying illumination levels
[AD-A144198] 24 p3894 N84-34658
Energy-absorbing earcup engineering feasibility evaluation
[AD-A144179] 24 p3938 N84-34924

ARMY AEROMEDICAL RESEARCH UNIT, FORT RUCKER, ALA.
Development of a microprocessor based audiometer for threshold shift studies
[AD-A142124] 19 p3065 N84-29448

ARMY AERONAUTICAL RESEARCH LAB., MOFFETT FIELD, CALIF.
Impact response of an energy absorbing earcup
[AD-A134828] 08 p1205 N84-17860

ARMY AIR MOBILITY RESEARCH AND DEVELOPMENT LAB., HAMPTON, VA.
Helicopter anti-torque system using strakes
[NASA-CASE-LAR-13233-1] 23 p3692 N84-33400

ARMY ARMAMENT MUNITIONS AND CHEMICAL COMMAND, DOVER, N.J.
Theoretical calculation of H/sub 2 S- and Q-branch spectra for propellant flames 13 p1943 N84-22636
Closed vessel combustion studies of stick propellant 13 p1948 N84-22665
Neutron radiographic study of liquid propellant combustion 13 p1949 N84-22669
CARS studies of nitramine LOVA propellant combustion 13 p1951 N84-22683

ARMY ARMAMENT MUNITIONS AND CHEMICAL COMMAND, ROCK ISLAND, ILL.
Methods for choosing buffer size in tandem production operations
[AD-A132639] 05 p0735 N84-14828
Statistical properties of an integrated stationary stochastic process
[AD-A134180] 07 p1067 N84-16924
Paperless solicitation and contracting
[AD-P002749] 13 p2050 N84-23296
Training requirements for changing times
[AD-P002764] 13 p2052 N84-23311
Readiness planning in a peacetime environment
[AD-P002803] 13 p2058 N84-23349

ARMY ARMAMENT RESEARCH AND DEVELOPMENT COMMAND, ABERDEEN PROVING GROUND, MD.
Navier-Stokes computational study of the influence of shell geometry on the Magnus effect at supersonic speeds
[AD-A130630] 01 p0079 N84-10516
Cloud physics and nucleation theory: Revisions indicated by new measurements of the electrical conductivity of evaporation-humidified air
[AD-A130696] 01 p0108 N84-10703
Diffusion measurements in microemulsions
[AD-A133801] 05 p0648 N84-14265
Estimation of parameters for truncated distributions
[AD-A132605] 05 p0735 N84-14827
Boundary-layer trip effectiveness and computations of aerodynamic heating for XM797 nose-tip configurations
[AD-A128036] 07 p0947 N84-16148
Error analysis of vapor pressure measurements
[AD-A137584] 11 p1728 N84-21271
Nonlinear least-squares fitting of first-order rate coefficients comparison between the Gauss-Seidel method and Swain's kore program
[AD-A139080] 13 p2029 N84-23157
The influence of cutouts on transient response of hemispherical shells
[AD-P002943] 14 p2197 N84-24183
Non-linear multidimensional models, least squares and reduced residuals
[AD-P002950] 14 p2198 N84-24190
Mobility and molecular ions of dimethyl methyl phosphonate, methyl salicylate and acetone
[AD-A140328] 16 p2555 N84-26395
A three-degree-of-freedom flight simulator for spin-stabilized projectiles
[AD-A140657] 17 p2610 N84-26709
A relationship between liquid roll moment and liquid side moment
[AD-A140658] 17 p2668 N84-27011
Calculation of Legendre functions on the cut for integral order and complex degree by means of Gauss continued fractions
[AD-A139630] 17 p2758 N84-27506
An explanation of spin-up instabilities for a 155mm binary projectile
[AD-A141534] 19 p3023 N84-29173
Self-propagating high-temperature synthesis of ceramics in vacuum
[AD-A142506] 20 p3162 N84-30079

ARMY ARMAMENT RESEARCH AND DEVELOPMENT COMMAND, DOVER, N. J.
N(2) and CO vibrational CARS and h(2) rotational CARS spectroscopy of CH(4)-N(2)O flames
[AD-A132234] 04 p0493 N84-13238
CARS studies of nitramine lova propellant combustion
[AD-A135813] 09 p1280 N84-18357
An analysis of the acquisition strategy decision process along three dimensions of the acquisition improvement program
[AD-P002758] 13 p2051 N84-23305
Shock front pumped stokes and anti-stokes reflectivity contributions
[AD-A139134] 14 p2145 N84-23857
A simple approach for determination of bursting pressure of a thick-walled cylinder
[AD-P002956] 14 p2199 N84-24196
A finite difference method for any partial differential equation
[AD-P002959] 14 p2200 N84-24199
Theoretical calculations of H(2) CARS spectra for propellant flames
[AD-A135818] 17 p2619 N84-26758
Simplified thermal transient test for electro explosive devices
[AD-A132970] 18 p2844 N84-28060
Introduction to composite materials
[AD-A144274] 24 p3879 N84-34578

ARMY ARMAMENT RESEARCH AND DEVELOPMENT COMMAND, WATERVLIET, N. Y.
Elastic-plastic analysis of annular plate problems using NASTRAN
[AD-A131293] 02 p0231 N84-11518
Elastic-plastic analysis of annular plate problems using NASTRAN 06 p0861 N84-15607
A functional stress intensity approach to multiply cracked, partially autofrettaged cylinders
[AD-A135345] 08 p1170 N84-17625
Electrical transport in low resistivity amorphous alloys
[AD-A136331] 09 p1282 N84-18372
Fatigue life analysis and tensile overload effects with high strength steel notched specimens
[AD-A136065] 09 p1284 N84-18384
Behavior of pressurized cylinders with multiple internal cracks
[AD-A136104] 09 p1334 N84-18707
Stress distribution in a cylindrical bar subjected to cyclic torsional loading
[AD-A139413] 14 p2158 N84-23929
On the extremum of bilinear functional for hyperbolic type P.D.E.
[AD-P002942] 14 p2197 N84-24182
Stress distribution in a cylindrical bar subjected to cyclic torsional loading
[AD-P002957] 14 p2199 N84-24197
Thermal and transformation stresses in hollow tubes during the quenching process
[AD-P002976] 14 p2201 N84-24212
Explicit formulas for C to the nth power piecewise Hermite basis functions
[AD-P002978] 14 p2202 N84-24214
Characterization of crystallographic structure and internal stress of chromium coatings plated under current interruptions
[AD-A136118] 17 p2623 N84-26786
A material model for reverse yielding and its application to torsion
[AD-A140897] 17 p2680 N84-27071
Mechanical properties of silicone rubber in a closed volume
[AD-A138129] 18 p2818 N84-27890
Cadmium plating versus other coatings to prevent corrosion
[AD-A142504] 20 p3153 N84-30022
On the extremum of bilinear functional for hyperbolic type partial differential equations
[AD-A142505] 20 p3281 N84-30828
Longitudinal vibrations of rods of finite length with radial deformation
[AD-A142674] 21 p3421 N84-31703
Embrittlement of 4340 type steel by liquid lead and antimony and lead-antimony solutions
[AD-A143785] 23 p3718 N84-33567

ARMY AVIATION CENTER, FORT RUCKER, ALA.
Concepts for LHX avionics
[AD-P003575] 21 p3338 N84-31180

ARMY AVIATION ENGINEERING FLIGHT ACTIVITY, EDWARDS AFB, CALIF.
Flight testing the Rotor Systems Research Aircraft (RSRA)
[NASA-TM-85852] 04 p0483 N84-13177
Preliminary airworthiness evaluation of the UH-60A configured with the External Stores Support System (ESSS)
[AD-A132964] 05 p0630 N84-14139
Rotorcraft icing technology: An update 06 p0776 N84-15084
Preliminary airworthiness evaluation of the Rutan Aircraft Factory (RAF), Incorporated LONG-EZ airplane
[AD-A140765] 17 p2606 N84-26695
Preliminary airworthiness evaluation of the UH-60 helicopter with T700-GE-701A engines installed
[AD-A140882] 17 p2606 N84-26696
JUH-1H pneumatic boot deicing system flight test evaluation
[AD-A140986] 18 p2793 N84-27725
Evaluation of UH-1H hover performance degradation caused by rotor icing
[AD-A141252] 18 p2793 N84-27727

ARMY AVIATION RESEARCH AND DEVELOPMENT COMMAND, CLEVELAND, OHIO.
Ceramic composite liner material for gas turbine combustors
[NASA-TM-83490] 05 p0631 N84-14145
Detailed flow measurements in casing boundary layer of 429-meter-per-second-tip-speed two-stage fan
[NASA-TP-2052] 19 p2966 N84-28795

ARMY AVIATION RESEARCH AND DEVELOPMENT COMMAND, HAMPTON, VA.
Interlaminar fracture of composites
[NASA-TM-85768] 18 p2809 N84-27835
ARMY AVIATION RESEARCH AND DEVELOPMENT COMMAND, MOFFETT FIELD, CALIF.
A helicopter flight investigation of roll-control sensitivity, damping and cross coupling in a low altitude lateral maneuvering task
[NASA-TM-84376] 07 p0959 N84-16216
Rotary wing aerodynamically generated noise
19 p3097 N84-29668
Experiment versus theory 19 p3098 N84-29679
ARMY AVIATION RESEARCH AND DEVELOPMENT COMMAND, ST. LOUIS, MO.
Aeromechanical stability of a hingeless rotor in hover and forward flight: Analysis and wind tunnel tests
[NASA-TM-85683] 01 p0094 N84-10610
An airborne color video inserter
[AD-A132183] 04 p0484 N84-13185
An airborne programmable digital to video converter
[AD-A134839] 08 p1104 N84-17181
AVRADCOM research helicopter vibration
10 p1507 N84-19867
Evaluation of automatic test equipment for use with the Army helicopter improvement program
[AD-A137647] 11 p1607 N84-20523
A dual digital to video converter for avionics symbology and messages
[AD-A138383] 12 p1771 N84-21547
ARMY AVIATION SYSTEMS COMMAND, ST. LOUIS, MO.
Experimental blade vortex interaction noise characteristics of a utility helicopter at 1/4 scale
[NASA-TM-84653] 08 p1227 N84-18018
Airfoil interaction with impinging vortex
[NASA-TP-2273] 09 p1250 N84-18159
Historical research and development inflation indices for Army fixed and rotor winged aircraft
[AD-A142943] 21 p3323 N84-31085
Calculation of boundary layers of oscillating airfoils
[NASA-TM-85943] 21 p3398 N84-31554
A dual digital to video converter and color video inserter for avionics symbology and messages
[AD-A143772] 23 p3693 N84-33408
ARMY AVIONICS RESEARCH AND DEVELOPMENT ACTIVITY, FORT MONMOUTH, N. J.
Tri-service Combined Altitude Radar Altimeter (CARA): The Army perspective
[AD-P003586] 21 p3340 N84-31191
ARMY CHEMICAL SYSTEMS LAB., ABERDEEN PROVING GROUND, MD.
Design considerations of platens for vibration testing
[AD-A135815] 09 p1332 N84-18699
ARMY COLD REGIONS RESEARCH AND ENGINEERING LAB., HANOVER, N. H.
Detection of cavities under concrete pavement
[AD-A131851] 03 p0358 N84-12331
Predicting lake ice decay
[AD-A132012] 03 p0401 N84-12618
Mechanical behavior of sea ice
[AD-A131852] 03 p0401 N84-12619
Snow cover and meteorology at Allagash, Maine, 1977 - 1980
[AD-A132013] 03 p0410 N84-12684
Proceedings of 1st International Workshop on Atmospheric Icing of Structures
[AD-A131869] 03 p0411 N84-12690
Glaciological data: Permafrost. A bibliography, 1978 - 1982
[PB83-249730] 04 p0565 N84-13724
Aerostat icing problems
[AD-A133403] 06 p0810 N84-15272
Stress measurements in ice
[AD-A133906] 06 p0861 N84-15609
Revised procedure for pavement design under seasonal frost conditions
[AD-A134480] 07 p0986 N84-16384
Spaceborne SAR and sea ice
07 p0990 N84-16412
A comparison of sea ice model results using three different wind forcing fields
[AD-A134462] 07 p1040 N84-16746
Reports of the U.S. - U.S.S.R. Weddell Polynya Expedition, October-November 1981. Volume 7. Surface-level meteorological data
[AD-A134476] 07 p1041 N84-16747
Computer models for two-dimensional transient heat conduction
[AD-A134693] 08 p1160 N84-17549
A study on the tensile strength of ice as a function of grain size
[AD-A134889] 08 p1172 N84-17631
Transport of water in frozen soil. I: Experimental determination of soil-water diffusivity under isothermal conditions
[AD-A135419] 08 p1177 N84-17671
Reports of the U.S. - U.S.S.R. Weddell Polynya expedition, October-November 1981. Volume 6: Upper-air data
[AD-A134871] 08 p1187 N84-17736
MIZEX: A program for mesoscale air-ice-ocean interaction experiments in Arctic marginal ice zones. 2: A science plan for a summer marginal ice zone experiment in the Fram Strait/Greenland sea: 1984
[AD-A134872] 08 p1187 N84-17737
Synoptic meteorology during the SNOW-ONE-A field experiment
[AD-A134888] 08 p1191 N84-17762
Statistical aspects of ice gouging on the Alaskan Shelf of the Beaufort Sea
[AD-A134428] 08 p1196 N84-17798
Mechanical ice release processes. Part 1: Self-shedding from high-speed rotors
[AD-A135369] 09 p1256 N84-18198
Driving traction on ice with all-season and mud-and-snow radial tires
[AD-A136115] 09 p1325 N84-18658
Current procedures for forecasting aviation icing: A review
[AD-A136152] 09 p1350 N84-18818
A multivariable regression algorithm
[AD-A136630] 09 p1382 N84-19026
A Finite Integral Transform (FIT) method for differential equations having asymptotic solutions
[AD-P002958] 14 p2200 N84-24198
Aerosol growth in a cold environment
[AD-A139607] 15 p2287 N84-24720
Thermodynamic model of creep at constant stresses and constant strain rates
[AD-A139883] 15 p2317 N84-24908
Integration of LANDSAT land cover data into the Saginaw River basin geographic information system for hydrologic modeling
[AD-A140185] 16 p2510 N84-26106
Electromagnetic properties of sea ice
[AD-A140330] 16 p2534 N84-26268
Modeling two-dimensional freezing using transfinite mappings and a moving-mesh finite element technique
[AD-A144131] 24 p3900 N84-34696
Atmospheric icing on sea structures
[AD-A144448] 24 p3934 N84-34903
Mechanical properties of multi-year sea ice. Phase 1: Test results
[AD-A144132] 24 p3935 N84-34907
Mechanical properties of multi-year sea ice. Testing techniques
[AD-A144431] 24 p3935 N84-34908
ARMY COLD REGIONS TEST CENTER, FORT GREELY, ARK.
Arctic personnel effects
[AD-A134892] 08 p1201 N84-17829
ARMY COMMAND AND GENERAL STAFF COLL., FORT LEAVENWORTH, KANSAS.
Physical fitness as a moderator of cognitive degradation during sleep deprivation
[AD-A131962] 03 p0415 N84-12718
ARMY COMMUNICATIONS-ELECTRONICS COMMAND, FORT MONMOUTH, N.J.
Proceedings of the 32d International Wire and Cable Symposium
[AD-A136749] 11 p1719 N84-21212
Spread spectrum data networks
13 p1977 N84-22832
Proceedings of the 2nd Annual Conference on Ada (Trademark) Technology
[AD-A142403] 20 p3269 N84-30745
The Army Ada (trademark) education program
[AD-P003414] 20 p3269 N84-30746
The NEBULA and MCF (Military Computer Family) standardization programs
[AD-P003531] 21 p3331 N84-31135
ARMY COMMUNICATIONS-ELECTRONICS ENGINEERING INSTALLATION AGENCY, FORT HUACHUCA, ARIZ.
Standard Engineering Installation Package. Ground control approach radar systems and radome(S)
[AD-A130726] 01 p0066 N84-10430
ARMY COMMUNICATIONS RESEARCH AND DEVELOPMENT COMMAND, FORT MONMOUTH, N. J.
Embedded system design with Ada as the system design language
[AD-A144232] 24 p3945 N84-34979
ARMY CONCEPTS ANALYSIS AGENCY, BETHESDA, MD.
Aircraft Spare Stockage Methodology (aircraft spares) study
[AD-A142259] 19 p2955 N84-28730
Numerical validation of Tukey's criterion for clinical trials and sequential testing
[AD-P003853] 24 p3940 N84-34939
ARMY CONSTRUCTION ENGINEERING RESEARCH LAB., CHAMPAIGN, ILL.
Preliminary analysis of the seismic vulnerability of selected buildings at Fort Ord, California using the rapid eismic analysis procedure
[AD-A130624] 01 p0057 N84-10372
Electromagnetic shielding of full-sized structures by metal arc spraying
[AD-A132883] 05 p0663 N84-14357
Preliminary investigation of ceramic-coated anodes for cathodic protection
[AD-A133440] 06 p0810 N84-15273
An interactive soils information system. Users manual
[AD-A133480] 06 p0935 N84-16078
The microcomputer knowledge base: Introduction and user instructions
[AD-A137694] 11 p1704 N84-21108
Strategies for and validity of noise monitoring in the vicinity of civilian airfields and army installations
[AD-A137780] 11 p1729 N84-21279
Interactive Hazardous Materials Information System (HMIS): Description and assessment
[AD-A138329] 12 p1919 N84-22500
Fixity of members embedded in concrete
[AD-A138862] 13 p1974 N84-22810
Wind power generation design considerations
[AD-A138841] 13 p2009 N84-23029
User manual for driver program
[AD-A139028] 13 p2029 N84-23156
A study of MX environmental management information system (MXEMIS) needs
[AD-A139025] 13 p2067 N84-23404
Development of concepts for corrosion assessment and evaluation of underground pipelines
[AD-A140633] 17 p2623 N84-26788
Deformation and fracture maps for polymer-foams, solid polymers and polymer-composites
[AD-A141197] 18 p2818 N84-27893
An investigation into polymer design and synthesis for infrared energy absorption
[AD-A141265] 18 p2818 N84-27895
Procedures for acceptance testing of solar energy systems
[AD-A141839] 19 p3051 N84-29359
Community reaction to impulsive noise: A 10-year research summary
[AD-A141762] 19 p3052 N84-29369
Automated Construction Management System (ACMS). Volume 1: User's guide
[AD-A143031] 21 p3465 N84-31971
Automated Construction Management System (ACMS). Volume 2: Program documentation
[AD-A143032] 21 p3466 N84-31972
Evaluation of the pavement condition index for use on porous friction surfaces
[AD-A144521] 24 p3857 N84-34453
The effect of fluids on waveguides below cutoff penetrations as related to electromagnetic shielding effectiveness
[AD-A144685] 24 p3896 N84-34670
Investigation of power factor controller applications
[AD-A144466] 24 p3898 N84-34686
Evaluation of microcomputer energy analysis programs
[AD-A144684] 24 p3942 N84-34959
ARMY DARCOM MATERIEL READINESS SUPPORT ACTIVITY, LEXINGTON, KY.
1982 US Army Materiel Development and Readiness Command (DARCOM) integrated logistic support (ILS) study finding on contracting for ILS
[AD-P002805] 13 p2058 N84-23351
The new MIL-STDs (Military standard) 1388
[AD-P002806] 13 p2059 N84-23352
Central Demand Data Base (CDDB) End Item Code (EIC)
[AD-P002807] 13 p2059 N84-23353
ARMY ELECTRONICS RESEARCH AND DEVELOPMENT COMMAND, FORT BELVOIR, VA.
Range performance calculations using the NVEOL-Georgia Tech Research Institute 0.1- to 100-GHz radar performance model
[AD-A133881] 05 p0667 N84-14387
An automated system for characterizing laser pulses
[AD-A138580] 13 p1995 N84-22945
ARMY ELECTRONICS RESEARCH AND DEVELOPMENT COMMAND, WHITE SANDS MISSILE RANGE, N. MEX.
Curve fit technique for a smooth curve using Gaussian sections
[AD-A132499] 04 p0589 N84-13893
ARMY ENGINEER TOPOGRAPHIC LABS., FORT BELVOIR, VA.
An instrument to monitor the tilt of large structures
[AD-A129598] 01 p0084 N84-10544

Application of a feature selection technique to samples of high resolution synthetic aperture radar imagery
[AD-A135006] 08 p1143 N84-17438

Evaluation of published criteria for identifying metamorphic rocks on air photos: Two case studies in the northeastern United States
[AD-A135451] 08 p1177 N84-17672

The classifications of metamorphic rocks and their applications to air photo interpretation procedures
[AD-A134965] 08 p1178 N84-17675

Mapping applications of video disc technology
[AD-A135842] 09 p1300 N84-18498

The AI research environment at the US Army engineer topographic laboratories
[AD-A136316] 09 p1336 N84-18727

A methodology for digital processing of geographic and cartographic data
[AD-A135835] 09 p1337 N84-18730

Diurnal freeze-thaw frequencies in the high latitude: A climatological guide
[AD-A135869] 09 p1349 N84-18812

The relation between isolated tree brightness temperature and grass background brightness temperature
[AD-A135843] 09 p1389 N84-19070

On generation, estimation, utilization, availability and compatibility aspects of geodetic and meteorological data
[AD-A135844] 10 p1436 N84-19388

On recent progress in and utilization of astrogeodetic-inertial and astrogeodetic-gradiometric gravity vector determination
[AD-A136263] 10 p1526 N84-19993

Applicability of stellar rate for astronomic position determination
[AD-A135845] 10 p1595 N84-20452

Methodological preliminaries to the development of an expert system for aerial photo interpretation
[AD-A139899] 15 p2336 N84-25027

Discriminating vegetation and soils using LANDSAT MSS and Thematic Mapper bands and band ratios
[AD-A140198] 16 p2510 N84-26108

DEM (digital grid-point elevation models) synthesis from three-dimensional cartographic data
[AD-A140211] 16 p2510 N84-26109

An experimental video disc for map and image display
[AD-A140215] 16 p2510 N84-26110

Effects of weathering and lichen cover on the middle infrared spectra of rocks
[AD-A140228] 16 p2510 N84-26111

Cartographic feature extraction on ETL's (Engineer Topographic Laboratories') DIAL (Digital Image Analysis Laboratory) system
[AD-A140230] 16 p2511 N84-26112

Bibliography of in-house and contract reports, supplement 12
[AD-A141778] 19 p3041 N84-29298

Voice Interactive Systems Technology (VIST) research
[AD-A142698] 20 p3267 N84-30726

Terrain analysis procedural guide for built-up areas (report no. 13 in the ETL (Engineer Topographic Laboratories) series on guides for Army terrain analysts)
[AD-A142918] 21 p3431 N84-31768

ARMY ENGINEER TOPOGRAPHIC LABS., WRIGHT-PATTERSON AFB, OHIO.

Registration of a LANDSAT image to DTM (Digital Terrain Matrix): An error analysis
[AD-A141766] 19 p3041 N84-29297

Analysis of interactive image cleansing via RASTER-processing techniques
[AD-A141772] 19 p3078 N84-29527

ARMY ENGINEER WATERWAYS EXPERIMENT STATION, LIVERMORE, CALIF.

Methodology for the calculation of a shallow-water wave climate
[AD-A134715] 08 p1195 N84-17792

Computer-aided analysis of concrete strength test results
[AD-A136265] 09 p1330 N84-18686

ARMY ENGINEER WATERWAYS EXPERIMENT STATION, VICKSBURG, MISS.

Cavity detection and delineation research. Part 2. Seismic methodology: Medford Cave Site, Florida
[AD-A131322] 02 p0249 N84-11627

Poststorm reconnaissance of Tropical Storm Chris
[AD-A131948] 03 p0411 N84-12688

Environmental impact research program. Two-equation, depth-integrated turbulence closure for modeling geometry-dominated flows
[AD-A132347] 04 p0533 N84-13505

Petrographic examination of Bell Canyon Tests (BCT) 1-FF field grouts over a 3-year period
[DE83-018226] 04 p0555 N84-13654

Cavity detection and delineation research. Report 5: Electromagnetic (Radar) techniques applied to cavity detection
[AD-A132923] 05 p0670 N84-14407

Computer-Aided Structural Engineering (CASE) project. User's guide: Computer program to Calculate Shear, Moment and Thrust (CSMT) from stress results of a two-dimensional finite element analysis
[AD-A134089] 05 p0726 N84-14768

Abrasion-erosion resistance of concrete made with two aggregates, Stonewall Jackson Dam, West Virginia
[AD-A133432] 06 p0822 N84-15357

Computer-Aided Structural Engineering (CASE) project. User's guide: Computer graphics program for generation of engineering geometry (SKETCH)
[AD-A133600] 06 p0861 N84-15611

Accuracy considerations when using some minicomputers for scientific and engineering problems
[AD-A134141] 07 p1061 N84-16878

Investigation of the FAA overlay design procedures for rigid pavements
[AD-A135317] 09 p1259 N84-18222

Compendium of abstracts on statistical applications in geotechnical engineering
[AD-A136355] 09 p1297 N84-18478

An objective waveform comparison technique
[AD-A136130] 09 p1315 N84-18596

Proceedings, Seminar on Probabilistic Methods in Geotechnical Engineering
[AD-A136497] 09 p1345 N84-18786

User's guide: Interactive graphics computer program for contouring randomly spaced data
[AD-A135861] 09 p1367 N84-18927

Preventative measures to limit stress corrosion cracking in prestressed concrete
[AD-A136665] 10 p1471 N84-19609

Repair and restoration of paved surfaces. Phase 2: Backfilling of craters
[AD-A135745] 10 p1471 N84-19610

Analyzing sliding stability of structures using the modified computer program GWALL, revision
[AD-A136954] 10 p1517 N84-19934

CASE (Computer-Aided Structural Engineering) study of 6 major general-purpose finite element programs
[AD-A139065] 13 p2001 N84-22986

Load-transfer criteria for numerical analysis of axially loaded piles in sand. Part 1: Load-transfer criteria
[AD-A139236] 14 p2134 N84-23788

Survey of automated statewide natural resource information systems
[AD-A139017] 14 p2170 N84-23996

High value target modeling for tactical decision aids
[AD-P002953] 14 p2199 N84-24193

Condition evaluation of Supersonic Naval Ordnance Research Track (SNORT)
[AD-A140036] 15 p2265 N84-24599

Fuel-resistant coating and binders for porous friction surface pavements: Tests and analyses
[AD-A139865] 15 p2317 N84-24907

High-strength concrete for Peacekeeper facilities
[AD-A140510] 16 p2477 N84-25880

Environmental and water quality operational studies. Riverine influences on the water quality characteristics of West Point Lake
[AD-A141328] 18 p2877 N84-28271

Bomb damage repair: Precast slab design
[AD-A141687] 19 p2970 N84-28819

Concrete behavior under dynamic tensile-compressive load
[AD-A141735] 19 p3036 N84-29255

Preliminary guide to the onsite identification and delineation of the wetlands of Alaska
[AD-A142091] 19 p3042 N84-29299

Aquatic plant control research program. Effects of endothall treatment on phosphorus concentration and community metabolism of aquatic communities
[AD-A141830] 19 p3052 N84-29370

Measurements of dissolved gases at Corps of Engineers projects
[AD-A142727] 20 p3170 N84-30130

Tensile crack exposure tests. Statistical analysis of the long-term durability of series B beams
[AD-A141955] 20 p3201 N84-30335

Documentation of wave-height and tidal analysis programs for automated data acquisition and control systems
[AD-A142679] 20 p3251 N84-30634

Environmental and water quality operational studies. Fluorometric techniques for tracing reservoir inflows
[AD-A143135] 21 p3436 N84-31801

ARMY ENVIRONMENTAL HYGIENE AGENCY, ABERDEEN PROVING GROUND, MD.

Guidelines for running the thermal computational model of the eye
[AD-A142550] 20 p3260 N84-30688

ARMY FIELD ARTILLERY SCHOOL, FORT SILL, OKLA.

Noise, A bibliography
[AD-A138896] 14 p2221 N84-24328

ARMY FUELS AND LUBRICANTS RESEARCH LAB., SAN ANTONIO, TEX.

Application of military lubricants in commercial hydraulic/power transmission systems and components
[AD-A136937] 10 p1467 N84-19584

ARMY HEALTH CARE STUDIES AND CLINICAL INVESTIGATION ACTIVITY, FORT SAM HOUSTON, TEX.

Workshops for management of combat stress
[AD-P003283] 18 p2907 N84-28439

ARMY INDUSTRIAL BASE ENGINEERING ACTIVITY, ROCK ISLAND, ILL.

Manufacturing methods and technology, CAM (Computer Aided Manufacturing) related projects, FY 83-85
[AD-A136572] 09 p1357 N84-18824

ARMY INST. OF DENTAL RESEARCH, WASHINGTON, D. C.

The wetting of ceramic opaque suspensions on oxidized alloy surfaces
[AD-A142899] 21 p3370 N84-31381

ARMY INTELLIGENCE AND THREAT ANALYSIS CENTER, ARLINGTON, VA.

Military Medical Journal, no. 7, 1983
[L-2456] 08 p1198 N84-17811

Prevention of flight fatigue by physical training 08 p1198 N84-17812

Effect of the microclimate on the night sleep and physical fitness of seamen during a cruise in the low latitudes 08 p1198 N84-17813

Military Medical Journal, no. 2, 1983
[L-2341] 08 p1199 N84-17814

Assessment of the functional state of the heart muscle in aircrew members by means by bicycle ergometry 08 p1199 N84-17815

The effect of smoking on the non-specific resistance of the organism of seamen at sea 08 p1199 N84-17816

Military Medical Journal, no. 3, 1983
[L-2399] 08 p1199 N84-17817

Investigation of the microcirculation of the conjunctiva in airmen with the initial symptoms of cerebral atherosclerosis 08 p1199 N84-17818

Changes in the T and B systems of immunity in seamen during a long cruise 08 p1199 N84-17819

Military Medical Journal, no. 4, 1983
[L-2403] 08 p1202 N84-17836

The concept of working capacity of the flight crew 08 p1202 N84-17837

Military Medical Journal, no. 5, May 1983
[L-2404] 11 p1693 N84-21047

Aspects of medical examinations of airmen with regard to eye diseases 11 p1694 N84-21048

Anthropometric indicators of submariners 11 p1694 N84-21049

Military Medical Journal, no. 11, November 1983
[L-2539] 11 p1694 N84-21050

Methods and means of improving the working capability of flight personnel 11 p1694 N84-21051

Some immunological mechanisms of adaptation of seamen to conditions of low latitude sailing 11 p1694 N84-21052

Military Medical Journal, no. 4, 1984
[L-2718] 23 p3806 N84-34134

Physiological-hygienic criteria of medical selection of military servicement for work in a hot climate 23 p3807 N84-34135

Medical-psychological problems of the occupational reliability of flight personnel 23 p3807 N84-34136

The functional condition of seamen under conditions of the southern maritime area 23 p3807 N84-34137

ARMY INVENTORY RESEARCH OFFICE, PHILADELPHIA, PA.

Sortie duration and helicopter component failures (an empirical study)
[AD-A134745] 08 p1095 N84-17122

ARMY LOGISTICS CENTER, FORT LEE, VA.

On the Lehmann power analysis for the Wilcoxon Rank Sum Test
[AD-P003844] 24 p3939 N84-34932

ARMY LOGISTICS MANAGEMENT CENTER, FORT LEE, VA.

Designing the equitable risk contract
[AD-P002756] 13 p2051 N84-23303

ARMY MATERIALS AND MECHANICS RESEARCH CENTER, WATERTOWN, MASS.

Characterization of cumulative damage in composites during service 01 p0033 N84-10210

The dicyandiamide cure of SP-250 epoxy resin accelerated by monuron
[AD-A129667] 01 p0050 N84-10320

The effect of moisture on the properties of an aramid/epoxy composite
[AD-A131132] 02 p0188 N84-11222
Simple probability functions with finite distribution limits: The radical functions
[AD-A131576] 02 p0285 N84-11885
The analysis of crack growth data with application to trip steel
[AD-A132021] 03 p0389 N84-12535
Characterization of ceramic vane materials for 10KW turboalternator
[AD-A132505] 04 p0486 N84-13196
Computer-based ultrasonic multiple-frequency pulse-echo test system
[AD-A132227] 04 p0595 N84-13926
The polarization ratio of crystal monochromators
[AD-A133181] 06 p0847 N84-15524
FPP1, A floating point package for PDP-8 computers
[AD-A134236] 07 p1054 N84-16828
Flammability characteristics of some epoxy resins and composites
[AD-A135282] 08 p1137 N84-17394
Ceramic life prediction methodology - hot spin disc life program
[AD-A134783] 08 p1138 N84-17400
Evaluation of the epoxy system for the repair of fuel tank M109
[AD-A136923] 10 p1467 N84-19583
Materials implications of advanced thermal and kinetic energy threats 10 p1508 N84-19872
DSP1, a Diffractometer Subroutine Package for PDP-8 computers
[AD-A137458] 10 p1563 N84-20241
Preparation and properties of polyurethane and polyurethaneurea elastomers from methylene bis(4-cyclohexylisocyanate)
[AD-A137645] 11 p1637 N84-20704
Three dimensional stress analysis of an artillery projectile joint
[AD-P002955] 14 p2199 N84-24195
Finite element analysis of fabrics with nonlinear stress-strain laws
[AD-P002977] 14 p2202 N84-24213
Current design requirements for corrosion control on helicopters 16 p2434 N84-25616
Roll-truslon (RT*) of composite structures
[AD-A140838] 17 p2618 N84-26757
Interdependence of equivalent steady stress, crack growth and failure on sequence and amplitude of irregular loading
[AD-A142951] 21 p3422 N84-31707
Ceramics as substitutes for scarce metals 23 p3704 N84-33479
Synthesis of monomers for the preparation of regiospecifically substituted poly(phenylacetylenes) as potential chemical detectors
[AD-A144690] 24 p3889 N84-34628
A simulation process for determining reliability of cyclic random loaded structures
[AD-P003849] 24 p3939 N84-34936

ARMY MATERIEL SYSTEMS ANALYSIS ACTIVITY, ABERDEEN PROVING GROUND, MD.

An assessment of selected Army technical manuals
[AD-A132660] 05 p0654 N84-14302
An empirically developed Fourier series model for describing software failures
[AD-A132739] 05 p0729 N84-14787

ARMY MATERIEL TEST AND EVALUATION DIRECTORATE, WHITE SANDS MISSILE RANGE, N. MEX.

Random numbers from small calculators
[AD-P003850] 24 p3940 N84-34937

ARMY MEDICAL BIOENGINEERING RESEARCH AND DEVELOPMENT LAB., FORT DETRICK, MD.

Neurobehavioral effects of carbon monoxide (CO) exposure in humans protocol 1
[AD-A133891] 06 p0888 N84-15774
US Army Medical Bioengineering Research and Development Laboratory, fiscal year 1983
[AD-A136926] 10 p1545 N84-20129
Nitroguanidine wastewater pollution control technology: Phase 2 wastewater characterization and analytical methods development for organics
[AD-A141176] 18 p2811 N84-27844
Evaluation of alkaline chemical addition and organic loading schemes for enhancement of secondary treatment and ancillary nutrient removal
[AD-A141178] 18 p2877 N84-28270

ARMY MILITARY PERSONNEL CENTER, ALEXANDRIA, VA.

A special bounded sequential procedure
[AD-A130403] 01 p0129 N84-10847
Application of the finite compartment model of carbon adsorption to binary systems
[AD-A141483] 19 p2988 N84-28932

ARMY MISSILE COMMAND, REDSTONE ARSENAL, ALA.

Liquid chromatographic analysis of nitrocellulose-base propellants
[AD-A129005] 01 p0052 N84-10333
An approach to experimental investigation of jet plume effects on missile aerodynamics
[AD-A131336] 02 p0186 N84-11210
COMPBL-II: Compressible, variable pressure boundary layer program for arbitrary gaseous mixtures
[AD-A131352] 02 p0218 N84-11427
Wind speed, stability category, and atmospheric turbulence at selected locations
[AD-A132947] 05 p0709 N84-14645
Expressions for the exact state transition matrix of a nine-state target model
[AD-A132652] 05 p0735 N84-14830
Comparison of arithmetic requirements for the PFA (Prime Factor Algorithm), WFTA (Winograd Fourier Transform Algorithm), SWIFT, MFFT (Mixed radix fast Fourier transform), FFT (Fast Fourier Transform) and DFT (Discrete Fourier Transform) algorithms
[AD-A133087] 05 p0738 N84-14847
A study to determine the accuracy of 2 computer programs in predicting hinge moments for all movable tail fins on missile bodies
[AD-A133399] 06 p0793 N84-15169
Optical fiber lightguide sensing for gimbal pickoffs
[AD-A133343] 07 p0950 N84-16161
Atmospheric scintillation at 94 GHz
[AD-A134743] 08 p1145 N84-17452
Transverse mode formation in positive branch unstable resonators
[AD-A136515] 09 p1322 N84-18635
An evaluation of a Honda Electro Gyro-Cator land navigation system
[AD-A138283] 12 p1768 N84-21532
Disturbance minimization techniques for linear, time-invariant dynamical systems
[AD-A138915] 13 p2033 N84-23185
Mirrorless intrinsic optical bistability due to the local field correction in the Maxwell-Bloch formulation 14 p2233 N84-24397
A field evaluation of the Bendix Gyrocompass Navigation System land navigator
[AD-A140368] 16 p2446 N84-25689
A preliminary investigation on the application of robotics to missile fire control
[AD-A140369] 16 p2456 N84-25751
Laser-induced decomposition of some allyl halides
[AD-A140426] 16 p2463 N84-25786
Multisensor calibration procedure for an all weather short range air defense system concept
[AD-A141337] 18 p2791 N84-27715
Joint probability of selected cloud and visibility thresholds around Frankfurt, Germany
[AD-A141342] 18 p2891 N84-28348
Seeker systems simulation, present capability and future technology 21 p3350 N84-31254
Laser induced polymerization reactions in solid propellant binders 21 p3373 N84-31403
Laser induced nitrations of some aliphatic hydrocarbon compounds 21 p3373 N84-31404

ARMY MISSILE LAB., REDSTONE ARSENAL, ALA.

CO2 laser decomposition of the alkyl phosphites 21 p3373 N84-31402

ARMY MOBILITY EQUIPMENT RESEARCH AND DEVELOPMENT CENTER, FORT BELVOIR, VA.

Development of quantitative infrared analysis for monitoring water and emulsifying agents in fire-resistant microemulsion diesel fuels
[AD-A133242] 06 p0812 N84-15286

ARMY MOBILITY EQUIPMENT RESEARCH AND DEVELOPMENT COMMAND, FORT BELVOIR, VA.

The determination of research octane number of gasoline fuels by octane analyzer
[AD-A132427] 04 p0509 N84-13335
Baseline and verification tests of the electric vehicle associates' current fare station wagon
[AD-A132549] 04 p0617 N84-14072
Identification and characterization of elastomer vulcanizate materials using pyrolytic gas liquid phase chromatography
[AD-A134056] 05 p0658 N84-14325
Robotic technology applied to Army mobility systems
[AD-A134728] 08 p1216 N84-17933
Evaluation of the performance of filter separators with gasohol
[AD-A139645] 15 p2343 N84-25066

ARMY NATICK RESEARCH AND DEVELOPMENT COMMAND, MASS.

Reactivity of TNT and TNA-microbial reduction products with soil components
[AD-A135512] 08 p1182 N84-17698
Decomposition of four ammonium nitrate propellants
[AD-A136916] 10 p1470 N84-19601
Bibliography of technical publications and papers, October 1982 - September 1983
[AD-A138907] 13 p2067 N84-23403
Microbial evaluation of some adhesive formulations and adhesive bases
[AD-A141659] 19 p2999 N84-29005
Acceptance of a meal and its components: An exercise in missing data
[AD-P003852] 24 p3940 N84-34938

ARMY OPERATIONAL TEST AND EVALUATION AGENCY, FALLS CHURCH, VA.

A type of correlated data in operational testing
[AD-P003848] 24 p3939 N84-34935

ARMY PROCUREMENT RESEARCH OFFICE, FORT LEE, VA.

A survey of contractor productivity measurement practices
[AD-P002831] 13 p2063 N84-23376

ARMY RESEARCH AND DEVELOPMENT COMMAND, DOVER, N.J.

Molecular dynamics of propellant gases 13 p1949 N84-22674

ARMY RESEARCH AND DEVELOPMENT LAB., FORT BELVOIR, VA.

Status of the development of a long-life engine coolant system
[AD-A143098] 21 p3413 N84-31642

ARMY RESEARCH AND TECHNOLOGY LABS., CLEVELAND, OHIO.

Effects of different rub models on simulated rotor dynamics
[NASA-TP-2220] 08 p1166 N84-17590
Hydrodynamic lubrication of rigid nonconformal contacts in combined rolling and normal motion
[NASA-TM-83578] 08 p1166 N84-17592
Cold-air performance of compressor-drive turbine of department of energy upgraded automobile gas turbine engine. 3: Performance of redesigned turbine
[NASA-TM-83627] 16 p2438 N84-25644
Efficiency of nonstandard and high contact ratio involute spur gears
[NASA-TM-83725] 19 p3031 N84-29223
Comparison of icing cloud instruments for 1982-1983 icing season flight program
[NASA-TM-83569] 20 p3129 N84-29870
Transmission efficiency measurements and correlations with physical characteristics of the lubricant
[NASA-TM-83740] 20 p3195 N84-30293
Summary of drive-train component technology in helicopters
[NASA-TM-83726] 20 p3195 N84-30294
Calculation of the 3-D viscous flow at the endwall leading edge region of an axial annular turbine cascade
[NASA-CR-168275] 21 p3325 N84-31095
Investigation of the three-dimensional flow field within a transonic fan rotor: Experiment and analysis
[NASA-TM-83739] 22 p3531 N84-32357
Analytical and experimental investigation of stator endwall countouring in a small axial-flow turbine
[NASA-TP-2309] 22 p3536 N84-32388

ARMY RESEARCH AND TECHNOLOGY LABS., FORT EUSTIS, VA.

Army helicopter crashworthiness 06 p0777 N84-15090
Friction and wear behavior of aluminum and composite airplane skins
[NASA-TP-2262] 08 p1103 N84-17175
Repeatability of mixed-mode adhesive debonding
[NASA-TM-85753] 10 p1464 N84-19565

ARMY RESEARCH AND TECHNOLOGY LABS., MOFFETT FIELD, CALIF.

Airloads on bluff bodies, with application to the rotor-induced downloads on tilt-rotor aircraft
[NASA-TM-84401] 02 p0174 N84-11142
Design considerations for bearingless rotor hubs
[AD-A131660] 03 p0331 N84-12162
Application of the small body pressure transducer
[AD-A131733] 03 p0377 N84-12454
Fixed-base simulator investigation of Display/SCAS requirements for army helicopter low-speed tasks
[AD-A134123] 05 p0630 N84-14140
Helicopter impulsive noise: Theoretical and experimental status
[NASA-TM-84390] 09 p1386 N84-19050
Application of the small body pressure transducer
[AD-P002687] 11 p1659 N84-20822
NASA-FAA helicopter Microwave Landing System curved path flight test
[NASA-TM-85933] 14 p2103 N84-23617
A piloted simulator investigation of decoupling helicopters by using a model following control system
[AD-A139976] 15 p2264 N84-24598
A review of US Army aircrew-aircraft integration research programs
[NASA-TM-85947] 19 p2968 N84-28809

Identification and verification of frequency-domain models for XV-15 tilt-rotor aircraft dynamics
[NASA-TM-86009] 24 p3856 N84-34445

ARMY RESEARCH INST. FIELD UNIT, FORT BENNING, GA.
Use of self assessment in estimating levels of skill retention
[AD-P003345] 18 p2911 N84-28465

ARMY RESEARCH INST. FOR THE BEHAVIORAL AND SOCIAL SCIENCES, ALEXANDRIA, VA.
Training feedback handbook
[AD-A132565] 05 p0715 N84-14683
An overview of productivity improvement efforts in Army organizations
[AD-A138589] 14 p2246 N84-24490
Research issues in training device design: The organization of a data base
[AD-A140815] 17 p2611 N84-26710
Terrain travel simulation: Data and application
[AD-P003359] 18 p2912 N84-28472
Research integration: An essential for Department of Defense psychological research
[AD-P003366] 18 p2913 N84-28479
Video games: A human factors guide to visual display design and instructional system design
[AD-P003368] 18 p2914 N84-28480
Nonlaboratory techniques for the study of cognitive and decision-making processes: A description and selected bibliography
[AD-A141732] 19 p3067 N84-29458
US Army Research Institute 1983 report
[AD-A141821] 19 p3115 N84-29790
Abstracts of ARI research publications FY 1983
[AD-A141440] 19 p3115 N84-29796
Reverse engineering of the multiple launch rocket system. Human factors, manpower, personnel, and training in the weapons system acquisition process
[AD-A142849] 21 p3349 N84-31247
Battery Computer System (BCS) human factors field evaluation
[AD-A143425] 22 p3638 N84-33062

ARMY RESEARCH INST. FOR THE BEHAVIORAL AND SOCIAL SCIENCES, ARLINGTON, VA.
An investigation of geometric radar shapes for stereotyping
[AD-A131120] 03 p0459 N84-13020

ARMY RESEARCH INST. OF ENVIRONMENTAL MEDICINE, NATICK, MASS.
The energy cost and heart rate response of trained and untrained subjects walking and running in shoes and boots
[AD-A131420] 01 p0113 N84-10735
Prevention of acute mountain sickness by dexamethasone
[AD-A131533] 01 p0114 N84-10737
Naloxone does not affect ventilatory responses to hypoxia and hypercapnia in rats
[AD-A131836] 03 p0414 N84-12708
Effect of atropine on the exercise-heat performance of man
[AD-A131843] 03 p0416 N84-12719
Effectiveness in reducing heat stress of three conditioned-air cooling vests worn with and without cooling air supplied to a face piece
[AD-A131975] 03 p0417 N84-12726
Effects of acute cold exposure on submaximal endurance performance
[AD-A132581] 05 p0712 N84-14665
Aerobic fitness and the hypohydration response to exercise-heat stress
[AD-A132263] 05 p0713 N84-14669
Development and assessment of the Monark cycle ergometer for anaerobic muscular exercise
[AD-A133173] 06 p0847 N84-15523
The effects of dehydration on peripheral cooling
[AD-A130838] 06 p0887 N84-15767
Differentiated ratings of perceived exertion and selected physiological responses during prolonged upper and lower body exercise
[AD-A134066] 06 p0887 N84-15769
Heat exchange following atropine injection before and after heat acclimation
[AD-A132618] 06 p0890 N84-15780
Effectiveness of two portable liquid-cooled undergarments in reducing heat stress
[AD-A133174] 06 p0893 N84-15801
Insulin and cortisol improve heat tolerance in isolated perfused rat liver
[AD-A133382] 07 p1042 N84-16758
Overuse injuries of the lower extremities associated with marching, jogging and running. A review
[AD-A134672] 08 p1200 N84-17824
Physiological responses to prolonged upper body exercise
[AD-A134811] 08 p1200 N84-17826
Autonomic influences on peripheral circulatory and thermal responses to cold
[AD-A134444] 08 p1201 N84-17831
Physiological, biomechanical, and medical aspects of lifting and repetitive lifting: A review
[AD-A136689] 10 p1547 N84-20140
Heat exchange during upper and lower body exercise
[AD-A136015] 10 p1548 N84-20146
Exercise in the heat. Effects of saline or bicarbonate infusion
[AD-A137194] 11 p1696 N84-21061
Influence of hydration level and body fluids on exercise performance in the heat
[AD-A139284] 15 p2380 N84-25281
Effects of heat acclimation on atropine impaired thermoregulation
[AD-A139292] 15 p2380 N84-25282
Skeletal muscle metabolism of sea-level natives following short-term high-altitude residence
[AD-A139323] 15 p2380 N84-25284
Anthropometric changes at high altitude
[AD-A140311] 16 p2535 N84-26277
A software package for administering and monitoring the Environmental Symptoms Questionnaire (ESQ-3)
[AD-A140288] 16 p2538 N84-26293
A brief history of the use of simulation techniques in training and performance assessment
[AD-A140763] 17 p2746 N84-27437
A rodent water dispensing system for use in hypobaric chambers
[AD-A141167] 18 p2894 N84-28362
Maximal power outputs during the Wingate anaerobic test
[AD-A141374] 19 p3065 N84-29444
Recommendations for the conduct of physical training in cold weather
[AD-A142137] 19 p3066 N84-29449
The influence of cardiorespiratory fitness on the decrement in maximal aerobic power at high altitude
[AD-A142218] 19 p3066 N84-29452
Influence of heat stress and acclimation on maximal aerobic power
[AD-A142329] 19 p3066 N84-29453
Upper body exercise performance: Comparison between women and men
[AD-A142330] 19 p3066 N84-29454
Correlation between plasma fibronectin level and mortality following experimental rate heat stress
[AD-A143383] 22 p3628 N84-32991
Regulation and characteristics of cold-induced vasodilation
[AD-A143797] 23 p3810 N84-34158
Fluid replacement during hypothermia
[AD-A143807] 23 p3810 N84-34159
Upper to lower body muscular strength and endurance ratios for women and men
[AD-A143821] 23 p3811 N84-34168

ARMY RESEARCH OFFICE, RESEARCH TRIANGLE PARK, N. C.
Transactions of the 1st Army Conference on Applied Mathematics and Computing, held at Washington, D.C., 9-11 May 1983
[AD-A139224] 14 p2196 N84-24173
Proceedings of the 29th Conference on the Design of Experiments in Army Research, Development and Testing
[AD-A144261] 24 p3938 N84-34927
A combined Bayes-sampling theory method for monitoring a Bernoulli process
[AD-P003840] 24 p3938 N84-34928

ARMY SAFETY CENTER, FORT RUCKER, ALA.
Lessons learned from FY82 US Army aviation mishaps
[AD-A131725] 03 p0328 N84-12137
Investigation, reporting and analysis of US Army aircraft accident 06 p0775 N84-15077
Medical aspects of helicopter safety and crashworthiness 16 p2537 N84-26287
Back pain in helicopter flight operations
16 p2537 N84-26288

ARMY SIGNALS WARFARE LAB., VINT HILL FARMS STATION, VA.
Analysis of spacecraft charging, particle beams and geophysical data bases
[AD-A138632] 13 p1940 N84-22616

ARMY SOLDIER SUPPORT CENTER, FORT BENJAMIN HARRISON, IND.
Relationship between crewmember characteristics and tank crew performance
[AD-P003355] 18 p2912 N84-28471

ARMY STRUCTURES LAB., HAMPTON, VA.
NASA/Army supported noise source/noise reduction programs at Langley 19 p3097 N84-29669

ARMY TANK-AUTOMOTIVE COMMAND, WARREN, MICH.
Characterization of selected properties for alumina-aluminum metal matrix composites
[AD-A135580] 09 p1283 N84-18377
Image acquisition and manipulation system
[AD-A138927] 13 p2026 N84-23153
Testing and evaluation of JET electric vehicle models, 600, 1000, and 1000P
[AD-A141187] 18 p2849 N84-28090

ARMY TEST AND EVALUATION COMMAND, ABERDEEN PROVING GROUND, MD.
Test operations procedure: Absolute altimeters
[AD-A131746] 03 p0332 N84-12165
Integrated logistic supportability (Aviation materiel)
[AD-A132367] 04 p0478 N84-13148
Broadband electromagnetic interference testing for vehicles and electrical subsystems - noncommunications
[AD-A134087] 05 p0666 N84-14381
Solar radiation tests
[AD-A133889] 05 p0684 N84-14497
Radiac calibrators
[AD-A134611] 07 p1008 N84-16535
Test Operations Procedure: Signal converters
[AD-A134615] 08 p1144 N84-17446
Test Operations Procedure (TOP): Data transmission equipment
[AD-A134711] 08 p1145 N84-17449
Metallurgical and mechanical tests of materials
[AD-A136347] 09 p1327 N84-18666
US Army Test and Evaluation Command test operations procedure. Determination of range danger areas
[AD-A139813] 15 p2270 N84-24829
Cold regions instrumentation considerations
[AD-A139805] 15 p2336 N84-25024
Radiac survey instrumentation
[AD-A140084] 15 p2337 N84-25029
Human factors engineering. Part 1: Test procedures
[AD-A140343] 16 p2539 N84-26302
Human factors engineering. Part 2: HEDGE (Human factors engineering data guide for evaluation)
[AD-A140391] 16 p2540 N84-26303
Infrared measurements of vehicles and weapons
[AD-A141177] 18 p2932 N84-28592
Order of functioning
[AD-A141851] 19 p3001 N84-29022
Analog single channel communication transmitter and receiver tests
[AD-A141480] 19 p3005 N84-29044
Meteorological sounding systems
[AD-A141706] 19 p3058 N84-29405

ARMY TRAINING DEVELOPMENT INST., FORT MONROE, VA.
Evaluation results for the interactive video competency recognition system
[AD-A133052] 06 p0892 N84-15796

ARMY TROOP SUPPORT AND AVIATION MATERIEL READINESS COMMAND, CORPUS CHRISTI, TEX.
150 hour engine test of corrosion inhibited MIL-L-23699C oil
[AD-A131633] 03 p0356 N84-12317

ARMY TROOP SUPPORT COMMAND, ST. LOUIS, MO.
Historical inflation program. A computer program generating historical inflation indices for Army aircraft: Revision
[AD-A137670] 11 p1599 N84-20474

ARMY WAR COLL., CARLISLE BARRACKS, PA.
Artificial intelligence applied to the command, control, communications and intelligence of the US Central Command
[AD-A137205] 10 p1567 N84-20267
Classified document handbook
[AD-A137002] 10 p1593 N84-20439
Ballistic missile defense, space-based weapons, and the defense of the west
[AD-A140280] 16 p2454 N84-25738
Technology transfer dichotomies
[AD-A140387] 16 p2567 N84-26472

ARNOLD ENGINEERING DEVELOPMENT CENTER, ARNOLD AIR FORCE STATION, TENN.
Determination of the uncertainty of experimental heat-flux calibrations
[AD-A131918] 03 p0376 N84-12450
Numerical solution of the three-dimensional unsteady Euler equations
[AD-A132034] 03 p0425 N84-12783
Fluid dynamic aspects of turbine engine testing
14 p2098 N84-23586

ARO, INC., ARNOLD AIR FORCE STATION, TENN.
A steady-state thermal model for analysis of incipient icing on an air foil leading edge
[AD-A131207] 02 p0175 N84-11150
Three-dimensional, time-dependent, compressible, turbulent, integral boundary-layer equations in general curvilinear coordinates and their numerical solution
[AD-A133289] 06 p0844 N84-15504

ARTEC ASSOCIATES, INC., HAYWARD, CALIF.
Preliminary design of a reuseable PPMHD (Pulsed Plasma MHD) power supply test bed facility
[AD-A144147] 24 p3965 N84-35108
ASAHI SHIMBUN CO. (JAPAN).
Crystal growth of artificial snow
18 p2799 N84-27763
ASHLAND PETROLEUM CO., KY.
Refining of military jet fuels from shale oil. Part 4. Process computer modeling studies
[AD-A128891] 01 p0052 N84-10334
ASHWOOD (P. F.), FARNHAM (ENGLAND).
Operation and performance measurement on engines in sea-level test facilities: Introduction and general survey 16 p2452 N84-25724
ASSOCIATION FOR COMPUTATIONAL LINGUISTICS.
Proceedings of the Conference on Applied Natural Language Processing
[AD-A129824] 01 p0121 N84-10787
ASSOCIAZIONE EURATOM-CNEN SULLA FUSIONE, FRASCATI (ITALY).
Plasma focus evolution in time as seen from its neutron, gamma and X ray activities 10 p1582 N84-20365
ASTRO RESEARCH CORP., CARPINTERIA, CALIF.
Hinge specification for a square-faceted tetrahedral truss
[NASA-CR-172272] 07 p1015 N84-16586
The STEP/STACBEAM experiment technology development for very large solar array deployers
08 p1110 N84-17220
Support structures for large infrared telescopes
[NASA-CR-3900] 20 p3200 N84-30328
ASTRO RESEARCH CORP., SANTA BARBARA, CALIF.
Development and support structures for high-power solar arrays 19 p3048 N84-29336
ASTRONOMICAL INST., UTRECHT (NETHERLANDS).
Shell ejection phenomena in the hypergiant star P Cygni 24 p3977 N84-35189
ASTRONOMISCHE RECHEN-INSTITUT, HEIDELBERG (WEST GERMANY).
Absolute magnitude calibration for red dwarf stars
09 p1411 N84-19231
ASTRONOMISCHES INST., BONN (WEST GERMANY).
The characteristics of OH/IR objects, infrared stars with OH maser emission
[IA-PUBL-95] 01 p0164 N84-11078
ASULAB S.A., NEUCHATEL (SWITZERLAND).
Laser ranging technology for space to space applications. Volume 2: High stability CO2-laser for range rate finder development of critical technologies
[ESA-CR(P)-1877] 17 p2673 N84-27035
ATHENS UNIV. (GREECE).
Occupancy models, Bell-type polynomials and numbers and applications to probability
[AD-A130453] 01 p0136 N84-10892
Measurement of the energy resolution and related properties of an SCG1-C scintillation glass shower counter array for 1 to 25 GeV positrons
[DE84-007246] 14 p2148 N84-23871
ATLANTA UNIV., GA.
Dynamic programming algorithm and analyses for nonserial networks, part 2
[AD-A130905] 01 p0123 N84-10798
On the conversion of LINPACK to Ada
[AD-P002941] 14 p2197 N84-24181
Space and time analysis in dynamic programming algorithms
[AD-P002963] 14 p2200 N84-24203
Construction of finite difference schemes having special properties for ordinary and partial differential equations
[NASA-CR-173722] 18 p2924 N84-28544
ATLANTIC FLEET, NORFOLK, VA.
US Navy corrosion control maintenance
16 p2435 N84-25619
ATLANTIC RESEARCH CORP., GAINESVILLE, VA.
Computerized static firing analysis techniques of solid propellant rocket motors 13 p1944 N84-22641
Energy management for crew escape systems
20 p3141 N84-29945
A tractable theory for nonlinear propellant response and cumulative damage predictions
20 p3142 N84-29950
ATMOSPHERIC AND ENVIRONMENTAL RESEARCH, INC., CAMBRIDGE, MASS.
Effects of approximate radiation treatments used in the climate models on the clear sky thermal radiation flux and its perturbation due to CO2 increase
[DOE/ER-60023/1] 01 p0104 N84-10674
Io: Escape and ionization of atmospheric gases
[NASA-CR-174580] 05 p0702 N84-14607
Outer satellite atmospheres: Their extended nature and planetary interactions
[NASA-CR-174579] 05 p0764 N84-15013
Outer satellite atmospheres: Their extended nature and planetary interactions
[NASA-CR-173395] 12 p1922 N84-22524
Photometric studies of heat flow at the photosphere
17 p2779 N84-27641
Outlook for improved numerical weather prediction using satellite data with a special emphasis on the hydrological variables
[AD-A141233] 18 p2890 N84-28344
Humidity/cloud-radiation feedback on possible climatic perturbation due to fossil fuel utilization
[DE84-011895] 21 p3448 N84-31874
ATMOSPHERIC PHYSICS, INC., PERALTA, N. MEX.
The transfer function model: A computer program for determination of jet engine test cell exhaust particulates and opacity
[AD-A139222] 14 p2173 N84-24017
ATMOSPHERIC RADIATION CONSULTANTS, ACTON, MASS.
Telemetry bandwidth selection for infrared surveillance sensors
[AD-A144251] 24 p3861 N84-34466
ATMOSPHERIC SCIENCES LAB., WHITE SANDS MISSILE RANGE, N. MEX.
Transport and diffusion of buoyant material
[AD-A132613] 05 p0708 N84-14642
Review of calculations of extinction for visible and infrared wavelengths in rain
[AD-A132659] 05 p0747 N84-14906
ATOMIC ENERGY RESEARCH ESTABLISHMENT, HARWELL (ENGLAND).
Surface contamination from actinide solutions
[AERE-R-11046] 18 p2816 N84-27879
Harwell research into the oxidation of metals: A summary
[AERE-E-11155] 18 p2816 N84-27881
Effect of austenitisation heat treatment on the fracture resistance and temper embrittlement of MnMoNi steels
[AERE-R-11043] 18 p2816 N84-27882
A new electrochemical technique for evaluation of susceptibility to pitting corrosion
[AERE-M-3372] 18 p2817 N84-27883
Some properties of epoxy resins used for filament winding and preimpregnating fibres
[AERE-R-10966] 18 p2820 N84-27905
High temperature and post irradiation piezoelectric properties of strontium niobate, Sr2Nb2O7
[AERE-R-11112] 18 p2820 N84-27906
A study of ultrafine porosity in hydrated cements using small angle neutron scattering
[AERE-R-10954] 18 p2820 N84-27907
An AC impedance study of steel in concrete
[AERE-R-11132] 18 p2835 N84-27997
Variable pulse width piezoelectric ultrasonic transducer driver
[AERE-R-11071] 18 p2845 N84-28064
A study of aluminium brazes using hot stage scanning electron microscopy
[AERE-R-11063] 18 p2850 N84-28097
The measurement of residual stress in textured steel using an ultrasonic velocity combination technique
[AERE-R-11115] 18 p2854 N84-28123
The influence of stress on the principal polarisation directions of ultrasonic shear waves in textured steel plates
[AERE-R-11078] 18 p2854 N84-28124
Theoretical calculations of pressure vessel failure frequencies for Sizewell B transients
[AERE-R-11196] 18 p2854 N84-28125
B-scan displays of ultrasonic time-of-flight diffraction tests of compact tension specimens
[AERE-R-11010] 18 p2854 N84-28126
Determination of elemental intensities from direct Auger spectra by pre-filtered least squares fitting
[AERE-R-11226] 18 p2927 N84-28561
A comparison of the ultrasonic attenuation of Fe-C alloys in the annealed, normalised and quenched states
[AERE-R-10956] 18 p2929 N84-28573
Scattering of ultrasound by minority phases in polycrystalline metals
[AERE-R-11162] 18 p2929 N84-28574
The application of HTR coated fuel particle performance models to various problems in materials' science
[AERE-R-11029] 18 p2931 N84-28589
Crystalline effects in Auger electron spectroscopy
[AERE-R-11051] 18 p2942 N84-28658
Coatings for fuel economy or materials substitution
23 p3704 N84-33477
ATSUKO COMPUTING INTERNATIONAL, HUNTSVILLE, ALA.
Analysis of severe storm data
[NASA-CR-170947] 06 p0881 N84-15732
Mesoscale and severe storms (Mass) data management and analysis system 24 p3929 N84-34871
AUBURN UNIV., ALA.
Marine Air Traffic Control And Landing System (MATCALS) investigation
[AD-A130309] 01 p0007 N84-10045
Phase and compression behavior in sedimentation and thickening of liquid-solid suspensions
[PB83-249864] 04 p0496 N84-13257
Hydrogen ignition for laser propulsion
06 p0928 N84-16026
Linear and nonlinear aspects of rotordynamics
06 p0929 N84-16034
Atomic oxygen effects on materials
06 p0929 N84-16036
Effect of heat treatment on the impact properties of a 12Cr-1Mo-V-W steel
[DE84-003440] 07 p0976 N84-16324
Design, performance, and analysis of an aquifer thermal-energy-storage experiment using the doublet-well configuration
[DE84-001811] 10 p1529 N84-20019
Austenitizing and microstructure of a HT-9 steel
[DE84-004914] 11 p1635 N84-20687
Theory of the electronic properties of mercury-cadmium-telluride alloys
[AD-A143426] 22 p3663 N84-33221
Surface analysis of space telescope material specimens
[NASA-CR-171163] 23 p3838 N84-34351
AURORA ASSOCIATES, INC., WASHINGTON, D.C.
Computer science and technology: Future information processing technology, 1983
[PB83-257618] 06 p0896 N84-15820
AUSTIN RESEARCH ASSOCIATES, INC., TEX.
Theoretical studies on free electron lasers
[AD-A136333] 09 p1321 N84-18627
AUSTRALIAN NATIONAL UNIV., CANBERRA.
The first 200,000,001 zeros of Riemann's zeta function 08 p1225 N84-18006
Ion microprobe zircon geochronology of the Uivak Gneisses: Implications for the evolution of early terrestrial crust in the North Atlantic Craton
11 p1678 N84-20951
Continental crustal composition and lower crustal models 11 p1680 N84-20965
White Cliffs: Operating experience
18 p2874 N84-28250
AUSTRALIAN OCEANOGRAPHIC DATA CENTRE, NORTH SYDNEY.
Australian Oceanographic Data Centre bulletin 16
[AD-A132002] 03 p0413 N84-12701
AUTOMETRIC CORP., INC., FALLS CHURCH, VA.
APPS-4 (Analytical Photogrammetric Processing System-4) remote sensing applications guide
[AD-A134977] 08 p1178 N84-17676
AUXILEC S.A., COLOMBUS (FRANCE).
The 400 Hz generators evolution, effects on installation arrangements 03 p0336 N84-12186
AVCO CORP., WILMINGTON, MASS.
Design and fabrication of a fiberglass circular-weave composite flywheel
[DE83-013406] 01 p0090 N84-10589
AVCO-EVERETT RESEARCH LAB., MASS.
Experimental study of dissociative attachment in optically-pumped lithium molecules
[AD-A131601] 02 p0289 N84-11894
Turbulence environment characterization
[AD-A131815] 03 p0411 N84-12692
AVCO LYCOMING DIV., STRATFORD, CONN.
Development of recuperator manufacturing techniques, phase 2
[AD-A132448] 04 p0544 N84-13581
Present capabilities and future requirements for computer-aided geometric modeling in the design and manufacture of gas turbine 12 p1875 N84-22219
Alternative fuels use in a vehicular gas turbine
15 p2290 N84-24741
AVCO SYSTEMS DIV., LOWELL, MASS.
Maintenance and operational enhancement of the flexible spacecraft dynamics program
[NASA-CR-175211] 10 p1439 N84-19394
AVCO SYSTEMS DIV., WILMINGTON, MASS.
IRAAM wind tunnel test, task 3
[AD-A135256] 08 p1099 N84-17148
AVIONS MARCEL DASSAULT, SAINT-CLOUD (FRANCE).
Effects of integrated maintenance on the definitions of onboard equipments 03 p0316 N84-12068
Hydraulic generation of auxiliary power for the Mirage 2000 aircraft 03 p0335 N84-12176
AVIONS MARCEL DASSAULT-BREGUET AVIATION, ISTRES (FRANCE).
Flight testing and real time data processing for development and integration of weapon systems
24 p3850 N84-34415
AVIONS MARCEL DASSAULT-BREGUET AVIATION, SAINT-CLOUD (FRANCE).
Aeroelasticity and optimization at the design stage
02 p0172 N84-11131
Combined visualization 06 p0769 N84-15043

Connecting aircraft and external loads
06 p0770 N84-15046
First level integrated maintenance in weapons systems
06 p0771 N84-15054
Methods for developing the navigation and weapon systems of the Mirage 2000
06 p0774 N84-15068
The MIRAGE 2000: Fly by wire control and safety
06 p0777 N84-15093
CAD/CAM and scientific data management at Dassault
12 p1890 N84-22307
Evaluation of material of thermal response
[DGT-23.190A] 16 p2474 N84-25856

AXIOMATIX, LOS ANGELES, CALIF.
Engineering evaluations and studies. Volume 1: Exhibit A
[NASA-CR-171724] 06 p0794 N84-15174
Engineering evaluations and studies. Volume 2: Exhibit B, part 1
[NASA-CR-171725] 06 p0794 N84-15175
Engineering evaluations and studies. Volume 2: Exhibit B, part 2
[NASA-CR-171726] 06 p0794 N84-15176
Engineering evaluations and studies. Volume 3: Exhibit C
[NASA-CR-171727] 06 p0794 N84-15177

B

B-K DYNAMICS, INC., ROCKVILLE, MD.
Prediction of battery life and behavior from analysis of voltage data
23 p3737 N84-33685

BADISCHE ANILIN- UND SODA-FABRIK A.G., LUDWIGSHAFEN AM RHEIN (WEST GERMANY).
Alkali doping heterogeneous catalysts
[BMFT-FB-T-83-174] 07 p0973 N84-16303

BALL AEROSPACE SYSTEMS DIV., BOULDER, COLO.
Microstrip antennas for SAR applications
07 p0987 N84-16396
One year of stars, provided by the IRAS cryogenic system
10 p1442 N84-19416
The design and development of two-failure tolerant mechanisms for the Spaceborne Imaging Radar (SIR-B) antenna
15 p2348 N84-25087
Autonomous omnidirectional spacecraft antenna system
[NASA-CR-175128] 18 p2832 N84-27980
Fundamental design issues for monolithic phased arrays
[AD-P003402] 19 p3014 N84-29106
Broadband microstrip matching techniques
[AD-P003506] 21 p3384 N84-31474
A conformal SHF phased array for aircraft satellite communication
[AD-P003509] 21 p3384 N84-31477
Monolithic integrated antenna systems
[AD-A143184] 22 p3586 N84-32708
Space simulation testing of the Earth Radiation Budget Satellite (ERBS)
24 p3861 N84-34471
Simultaneous thermal vacuum testing of GPS drives for NavStar
24 p3862 N84-34473

BALL BROS. RESEARCH CORP., BOULDER, COLO.
Breadboard stellar tracker system test report
[NASA-CR-170973] 08 p1102 N84-17166

BALL STATE UNIV., MUNCIE, IND.
Effects of dietary sodium intake on body and muscle potassium content in unacclimatized men during successive days of work in the heat
10 p1549 N84-20153

BALLISTIC RESEARCH LABS., ABERDEEN PROVING GROUND, MD.
Numerical computation of base flow for a projectile at transonic speeds
[AD-A130293] 01 p0004 N84-10027
Oscillations of a liquid in a rotating cylinder. Part 2: Spin-up
[AD-A129094] 01 p0077 N84-10505
Instabilities of a gyroscope produced by rapidly rotating, highly viscous liquids
[AD-A130874] 01 p0084 N84-10547
Transient combustion: Models versus ONERA data
[AD-A131151] 02 p0203 N84-11323
A theoretical and experimental investigation of a transonic projectile flow field
[AD-A131938] 03 p0320 N84-12094
Experimental and computational modeling of rarefaction wave eliminators suitable for the BRL 2.44 m shock tube
[AD-A131894] 03 p0338 N84-12194
Laser spectroscopy of propellant-like flames
[AD-A132042] 03 p0349 N84-12267
Unsteady compressible laminar boundary-layer flow within an expansion wave
[AD-A131889] 03 p0371 N84-12420
Procedures for the transfer of data files between the BRL CYBER computer system and the IBD Hewlett-Packard minicomputer network
[AD-A132063] 03 p0418 N84-12731
A computer subroutine for evaluating polygamma functions for complex arguments
[AD-A131936] 03 p0420 N84-12744
Some aerodynamic characteristics of a projectile shape with a nonaxisymmetric boattail at Mach numbers of 0.91 and 3.02
[AD-A133755] 05 p0627 N84-14125
Computational modeling of aerodynamic heating for XM797 nose cap configurations
[AD-A133684] 05 p0627 N84-14126
A 2-dimensional numerical study of detonation propagation between munitions by means of shock initiation
[AD-A133680] 05 p0661 N84-14346
Liquid payload roll moment induced by a spinning and coning projectile
[AD-A133681] 05 p0680 N84-14472
The measurement of large strains with foil resistance strain gages
[AD-A133687] 05 p0685 N84-14500
Computations of projectile magnus effect at transonic velocities
[AD-A133212] 06 p0783 N84-15127
Transport algorithms for methane flames
[AD-A133213] 06 p0801 N84-15221
Catalysis of nitramine propellants by mmtal borohydrides
[AD-A133215] 06 p0812 N84-15285
Thermal-energy transport from arc to rails in an arc-driven rail gun
[AD-A134991] 08 p1152 N84-17499
Inversion of ringdown data for a rotating liquid cylinder
[AD-A134742] 08 p1159 N84-17546
Intracavity laser excitation of NCO fluorescence in an atmospheric pressure flame
[AD-A134740] 08 p1164 N84-17579
Navier-Stokes computations of projectile base flow at transonic speeds with and without base injection
[AD-A135783] 09 p1252 N84-18176
Wind tunnel tests on a nonaxisymmetric projectile shape at Mach numbers 2.5 to 6.0
[AD-A135784] 09 p1253 N84-18177
Numerical investigation of the aerodynamics and stability of a flared afterbody for axisymmetric projectiles at supersonic speeds
[AD-A136826] 10 p1420 N84-19289
Pressure measurements in a rapidly rotating and coning, highly viscous fluid
[AD-A136824] 10 p1491 N84-19753
A combinatorial geometry computer description of the M48A1 Chaparral missile system
[AD-A137262] 11 p1622 N84-20615
Kinetic mechanisms for premixed, laminar, steady state methane/air flames
[AD-A137263] 11 p1629 N84-20658
Dynamic compaction of ceramic materials
[AD-A137257] 11 p1638 N84-20708
Further analysis of yawsonde data from some liquid payload projectiles
[AD-A137256] 11 p1653 N84-20791
Reflected overpressure impulse on a finite structure
[AD-A137259] 11 p1653 N84-20792
Slotted stick propellant study
13 p1948 N84-22664
Flash X-ray with image enhancement applied to combustion events
13 p1948 N84-22666
closed bomb combustion simulation of Hivelite solid propellant
13 p1948 N84-22667
Effect of fabrication techniques on consolidated charge burning
13 p1948 N84-22668
Liquid propellant ignition studies
13 p1949 N84-22670
Convective heating of energetic materials
13 p1949 N84-22672
Effect of O2 on double-base propellant ignition
13 p1949 N84-22673
The thermodynamics of real and unreal black powder
13 p1950 N84-22675
Multiphase flow analysis of the ballistic performance of an anomalous LOVA propellant mix
13 p1950 N84-22679
Kinetics of the Beta + Delta phase transformation of HMX
13 p1951 N84-22681
Combustion thermodynamics of some boron-nitrogen-hydrogen compounds
13 p1951 N84-22684
Flight data on liquid-filled shell for spin-up instabilities
[AD-A139136] 14 p2101 N84-23610
Numerical simulation of the flow of a chemical contaminant subjected to a jet impingement
[AD-P002936] 14 p2196 N84-24176
A numerical study of shock initiation of composition-b by high-speed impact of small steel projectiles
[AD-A139629] 15 p2303 N84-24821
Response of structural panels to air blast
15 p2316 N84-24902
Treatment of the discontinuity in the spin-up problem with impulsive start
[AD-A133682] 16 p2485 N84-25940
Revisions to the PETROS 4 shell response code
[AD-A140268] 16 p2502 N84-26059
Boundary condition and strain-rate effects on the response of blast-loaded beams
[AD-A140428] 16 p2502 N84-26061
The multiple device queueing system
[AD-A140429] 16 p2547 N84-26344
Mathematics of multidart probability predictions
[AD-A140745] 17 p2760 N84-27526
Base pressure measurements on a projectile shape at Mach numbers from 0.91 to 1.20
[AD-A141341] 18 p2789 N84-27699
A theory of rate-dependent plasticity
[AD-A142102] 19 p3036 N84-29260
Contribution of pressure to the moment during spin-up on a nutating liquid-filled cylinder: Ad hoc model
[AD-A143678] 23 p3747 N84-33752

BALTIMORE UNIV., MD.
Behavioral issues in the management of technology
[AD-P003349] 18 p2912 N84-28467

BAR-ILAN UNIV., RAMAT-GAN (ISRAEL).
Case studies of NOAA 6/TIROS N data impact on numerical weather forecasts
17 p2717 N84-27294
Method to estimate drag coefficient at the air/ice interface over drifting open pack ice from remotely sensed data
17 p2720 N84-27310

BARBER-NICHOLS ENGINEERING CO., ARVADA, COLO.
Current status of an organic Rankine cycle engine development program
18 p2872 N84-28230

BARCELONA UNIV. (SPAIN).
An approach to fuzziness in the setting of Lukasiewicz logic
[AD-P002357] 14 p2193 N84-24148
Qualitative study of the planar isosceles three-body problem
[PREPRINT-35] 20 p3133 N84-29896
On the integrals of the n-body problem
23 p3819 N84-34220
Qualitative analysis of the anisotropic Kepler problem
23 p3819 N84-34221

BARNES ENGINEERING CO., STAMFORD, CONN.
Fabrication of Schottky barrier detectors on thin films of PbSSe
[AD-A134310] 07 p1080 N84-17020

BARR AND STROUD LTD., GLASGOW (SCOTLAND).
Preparation of a profiled film of diamond-like carbon on germanium substrates
[AD-A136314] 09 p1394 N84-19104

BARRY WRIGHT CORP., BURBANK, CALIF.
Vibration isolation system for testing in a vacuum
24 p3864 N84-34492

BATES (ALBERT), SUMMERTOWN, TENN.
Collapsible photovoltaic-concentrator array portable power from the Sun
[DE84-000713] 04 p0558 N84-13677

BATTELLE COLUMBUS LABS., DURHAM, N. C.
Workshop on Repetitive Spark Gap Operation
[AD-A132688] 05 p0675 N84-14438
Workshop on Solid State Switches for Pulsed Power
[AD-A132687] 05 p0754 N84-14945

BATTELLE COLUMBUS LABS., MOUNTAIN VIEW, CALIF.
Cleared for the visual approach: Human factor problems in air carrier operations
[NASA-CR-166573] 17 p2603 N84-26679

BATTELLE COLUMBUS LABS., OHIO.
Turbine engine exhaust hydrocarbon analysis, tasks 1 and 2
[AD-A131522] 01 p0012 N84-10074
Improved acrylic systems for rapid runway repair
[AD-A130389] 01 p0016 N84-10103
Ultraviolet curable resin system for rapid runway repair
[AD-A130364] 01 p0016 N84-10104
Metallurgical investigation of a cracked low-pressure stem-turbine shaft from an electric utility
[DE83-902304] 01 p0045 N84-10292
Hot isostatic pressing of ceramic powder compacts
[AD-A131514] 01 p0050 N84-10324
Corrosion of underground pipe
[PB83-243923] 02 p0198 N84-11[illegible]
A critical review of the short crack problem in fatigue
[AD-A131349] 02 p0231 N84-11516
Walk-through survey report: Control technology for integrated circuit fabrication, Xerox Corporation, El Segundo, California
[PB83-239053] 03 p0359 N84-12333

Creep fatigue of low-cobalt superalloys: Waspaloy, PM U 700 and wrought U 700
[NASA-CR-168260] 04 p0498 N84-13265
Analysis of lead-acid battery accelerated testing data
[DE83-017403] 04 p0528 N84-13473
Models of simultaneous heat and moisture transfer in soils
[DE84-001580] 04 p0534 N84-13513
Feasibility of using a large press (80,000 - 200,000 tons) for manufacturing future components on Army systems
[AD-A132398] 04 p0544 N84-13582
The organic geochemistry of deep ground waters and radionuclide-partitioning experiment: Under hydrothermal conditions
[DE83-015784] 04 p0554 N84-13651
Manufacturing methods and technology (MANTECH) program. Quality control and nondestructive evaluation techniques for composites. Part 6: Acoustic emission: A state-of-the-art review
[AD-A132621] 05 p0645 N84-14245
Carbon dioxide sensor technology
[AD-A133688] 05 p0716 N84-14690
Validation of digital systems in avionics and flight control applications handbook, volume 1
[AD-A133222] 06 p0788 N84-15150
State-of-the-art survey of existing knowledge for the design of ground-source heat pumps
[DE84-002988] 07 p1003 N84-16504
Tie molecules in polyethylene
[PB84-101435] 08 p1139 N84-17405
Quality assurance of heat-fused polyethylene plastic pipe joints, phase 2
[PB84-104942] 08 p1168 N84-17608
Luneburg lens and optical matrix algebra research
[NASA-CR-172276] 08 p1231 N84-18047
Development of a corrosion control, nonemissive paint for the protection of bilge spaces
[AD-A136270] 09 p1267 N84-18402
Improved paint removal technique
[AD-A136671] 10 p1467 N84-19580
Detection of electromagnetic radiation leakage through small structural openings
[AD-A137407] 10 p1479 N84-19667
High pressure oxygen turbopump bearing cage stability analyses
[NASA-CR-170991] 10 p1502 N84-19815
Addressee errors in ATC communications: The call sign problem
[NASA-CR-166462] 11 p1603 N84-20501
Technical and economic feasibility of horizontal, multiple shallow-well, and deep-well ground coupling for residential heat pump applications
[DE84-006244] 12 p1817 N84-21842
Integrated-optical approaches to matrix multiplication
12 p1906 N84-22418
Measurements of elastohydrodynamic film thickness, wear and tempering behavior of high pressure oxygen turbopump bearings
[NASA-CR-171008] 13 p1997 N84-22960
Microstructures associated with wear
14 p2153 N84-23901
Frictional hold of various sheave configurations on synthetic ropes
[AD-A139808] 15 p2343 N84-25067
Literature review on occurence and methodology for determination of nickel, chromium, manganese and arsenic species in air
[PB84-172105] 16 p2463 N84-25788
Some thoughts on the subject of dynamic elastic-plastic analyses of rapid crack propagation and crack arrest
[AD-P003116] 16 p2469 N84-25821
Heet: Initiated furan resin for rapid runway repair
[AD-A140902] 17 p2611 N84-26713
Prediction of transition states and thermochemistry for combustion reactions
[AD-A140738] 17 p2619 N84-26761
Establishment of a Computer-Aided Design (CAD)/Computer-Aided Manufacturing (CAM) process for the production of cold forged gears
[AD-A141018] 18 p2921 N84-28522
Molecular order and solidification processes in organic liquids and solutions
[AD-A141777] 19 p3101 N84-29699
Some scoping experiments for a space reactor
[DE84-009101] 20 p3298 N84-30941
Digital avionics design for validation
[AD-P003571] 21 p3337 N84-31178
Analysis of polynuclear aromatic hydrocarbons in particulate matter by luminescence techniques
[PB84-181882] 21 p3363 N84-31333
Study of bipolar batteries
[DE84-013193] 21 p3394 N84-31540
Source circuit design considerations
22 p3583 N84-32690
Analysis of lead-acid battery deep-cycle accelerated testing data
[DE84-013192] 22 p3589 N84-32736
The influence of containerless undercooling and rapid solid-state quenching on the superconductive and magnetic properties of some clustering alloy systems
[NASA-CR-171144] 23 p3718 N84-33566
Project summaries, supplement
[DE84-013678] 23 p3744 N84-33734
Three-dimensional photochemical machining with lasers
[AD-A143926] 23 p3754 N84-33798
Three-dimensional photochemical machining with lasers
[AD-A144096] 23 p3755 N84-33800
Review of LOX Bearing and Seal Materials Tester (BSMT) radial load system
[NASA-CR-171162] 23 p3756 N84-33810
Hot isostatic pressing of ceramic powder compacts
[AD-A144123] 24 p3888 N84-34621
Three-dimensional photochemical machining with lasers
[AD-A144656] 24 p3909 N84-34760

BATTELLE COLUMBUS LABS., WASHINGTON, D. C.
Guidance and actuation systems for an adaptive-suspension vehicle
[AD-A139111] 14 p2155 N84-23910

BATTELLE INST., FRANKFURT AM MAIN (WEST GERMANY).
Identification of problem areas
06 p0836 N84-15440
Practical approaches in accident analysis
06 p0836 N84-15441
Flat cloud modeling 06 p0836 N84-15442
Development of generic mobility-terrain data bases: Investigation of critical soil parameters
[AD-A133595] 06 p0878 N84-15715
Foreign particles at a solidification front
[BMFT-FB-W-83-031] 10 p1495 N84-19777
Research and development on high sensitivity infrared detectors, phase 3, VQM
[BMFT-FB-W-83-032] 12 p1909 N84-22436
Design of a CO2 laser transceiver package for space-to-space optical communication
[BLEV-R-64.225] 16 p2482 N84-25913
Applications of laser for climatology and atmospheric research
[BLEV-R-65.169-5] 16 p2529 N84-26237
Fundamentals of spaceborne remote sensing: Applications of lasers, volume 1
16 p2529 N84-26238
Definition and design of spaceborne lidar instruments
16 p2529 N84-26240
On the separation of alloys exhibiting a miscibility gap
17 p2612 N84-26720
Frequency selected and amplitude limited personal noise protectors
[BMFT-FB-HA-84-016] 18 p2915 N84-28488
Feasibility study on a new type of personal noise protection
[BMFT-FB-HA-84-017] 18 p2915 N84-28489
Development of a transimpedance amplifier for cryotemperatures, study
[BMFT-FB-W-84-023] 21 p3407 N84-31610
A CO2 laser transceiver package with Gbit/sec capability for space-to-space communications
24 p3905 N84-34731
Design of a spaceborne lidar for measurements from operational satellites 24 p3907 N84-34745

BATTELLE MEMORIAL INST., COLUMBUS, OHIO.
User's manual for SPECTROM-41: A finite-element heat transfer program
[DE83-014809] 02 p0219 N84-11439
Salton Sea Geothermal Field, California, as a near-field natural analog of a radioactive waste repository in salt
[DE84-003851] 09 p1346 N84-18794

BATTELLE MEMORIAL INST., RICHLAND, WASH.
Effect of liquid tin-zinc on the drilling parameters of several alloys
[PB84-134782] 10 p1464 N84-19562

BATTELLE NORTHWEST LABS., RICHLAND, WASH.
MINTEQ: A computer program for calculating aqueous geochemical equilibria
[PB84-157148] 12 p1795 N84-21704

BATTELLE PACIFIC NORTHWEST LAB., SEQUIM, WASH.
Fate and effects of metals in the sea-surface microlayer
[DE84-000114] 04 p0569 N84-13752

BATTELLE PACIFIC NORTHWEST LABS., RICHLAND, WASH.
MEXAMS (Metals exposure analysis modeling system)
[PB84-157155] 12 p1799 N84-21736
An acoustical imaging system for the inspection of solid rocket motors
[AD-A139482] 14 p2156 N84-23918
Turbulent structure of stably stratified nocturnal slope flows
[AD-A140740] 17 p2734 N84-27378
Chemical attenuation rates, coefficients, and constants in leachate migration. Volume 1: A critical review
[DE84-009432] 20 p3238 N84-30557
Compendium of selected methods for sampling and analysis at geothermal facilities
[PB84-199926] 22 p3565 N84-32579
Doppler lidar results from the San Gorgonio Pass experiments 24 p3928 N84-34866

BAUMGARTEN (HEINRICH), NEUNKIRCHEN (WEST GERMANY).
Recycling of duroplastic moulding materials hardened by dispersion by means of powdering and compounding new materials
[BMFT-FB-T-83-302] 15 p2301 N84-24811

BAYER A.G., LEVERKUSEN (WEST GERMANY).
Hydrolysis of plastic wastes with the aim of recovering and reprocessing the starting components (recycling)
[BMFT-FB-T-83-199] 08 p1126 N84-17322
Physical and chemical investigations on real catalyst surfaces
[BMFT-FB-T-83-273] 13 p1958 N84-22729
Dyes for displays
[BMFT-FB-T-84-100] 16 p2557 N84-26401
Development of particle sizing for highly concentrated colloidal dispersions using photon correlation spectroscopy
[BMFT-FB-T-84-117] 23 p3716 N84-33553

BAYERISCHE AKADEMIE DER WISSENSCHAFTEN, FRANKFURT AM MAIN (WEST GERMANY).
Validation of SEASAT-1 altimetry using ground truth in the North Sea region
[SER-B-263-MITT-166] 08 p1179 N84-17681

BAYERISCHE AKADEMIE DER WISSENSCHAFTEN, MUNICH (WEST GERMANY).
Investigation of mathematical models to combine a terrestrial network with a satellite network
[SER-C-274] 03 p0392 N84-12554
Accuracy of gravimetrically determined absolute and relative geoid heights
[SER-A-97] 03 p0407 N84-12661
National report of the Federal Republic of Germany on geodetic activities, 1979 - 1983
[SER-B-265] 10 p1519 N84-19942
Horizontal geodesy control networks
10 p1519 N84-19943
Precise leveling 10 p1519 N84-19944
Geodetic astronomy 10 p1519 N84-19945
The observation of artificial satellites and VLBI
10 p1519 N84-19946
The geodetic use of satellite observations
10 p1519 N84-19947
Gravimetry 10 p1519 N84-19948
Mathematical theories, numerical investigations
10 p1519 N84-19949
Physical geodesy 10 p1520 N84-19950
Earth tides 10 p1520 N84-19951
Recent crustal movements 10 p1520 N84-19952
Seminar on mathematical models of geodetic/photogrammetric point determination with regard to outliers and systematic errors
[SER-A-98] 16 p2504 N84-26069
Correlation calculation in stereoscopic image pairs for the automatic acquisition of digital land models, orthopictures and height line planes
[SER-C283] 16 p2505 N84-26079
Fisheye objective in the dose range photogrammetry: Theoretical and practical investigations
[SER-C-286] 16 p2505 N84-26080
Variance-covariance components estimation by the adjustment of heterogeneous repetition measurements
[SER-C-282] 16 p2547 N84-26346
Contribution to the dynamics of extended bodies: Gravitational interaction
[SER-C-288] 18 p2952 N84-28711

BAYLOR COLL. OF MEDICINE, HOUSTON, TEX.
Role of calmodulin in cell proliferation
02 p0264 N84-11737
Regulation of hematopoiesis in the suspended rat as a model for space flight 09 p1355 N84-18856
A study of stress-free living bone and its application to space flight
[NASA-CR-171786] 16 p2535 N84-26275
International Workshop on Biophysical Correlates of Cellular Function UNESCO
[AD-A142490] 20 p3257 N84-30671

BDM CORP., ALBUQUERQUE, N. MEX.
Design analysis of advanced photovoltaic technologies
[DE84-000008] 04 p0557 N84-13675
General Electromagnetic Model for the Analysis of Complex Systems (GEMACS) user manual (version 3), volume 1
[AD-A137461] 10 p1480 N84-19669

General Electromagnetic Model for the Analysis of Complex Systems (GEMACS) engineering manual (version 3), volume 2
[AD-A137462] 10 p1480 N84-19670
General Electromagnetic Model for the Analysis of Complex Systems (GEMACS) engineering manual (version 3), volume 3
[AD-A137463] 10 p1480 N84-19671
General Electromagnetic Model for the Analysis of Complex Systems (GEMACS) computer code documentation (version 3), volume 3, part 3
[AD-A137509] 10 p1480 N84-19673
General Electromagnetic Model for the Analysis of Complex Systems (GEMACS) computer code documentation (version 3), volume 3, part 4
[AD-A137510] 10 p1480 N84-19674
General Electromagnetic Model for the Analysis of Complex Systems (GEMACS) computer code documentation (version 3), volume 3, part 2
[AD-A137464] 11 p1644 N84-20750
Optical analysis of Cassegrainian point focus concentrators 18 p2872 N84-28229
A review and summary of cell and module mismatch losses from theoretical and experimental studies 22 p3583 N84-32689
Qualification testing for a central station 22 p3585 N84-32706

BDM CORP., HOUSTON, TEX.
Microwave-enhanced ignition in diesel engines
[AD-A138148] 12 p1791 N84-21682

BDM CORP., MCLEAN, VA.
The effects of weather on rapid runway repair, volume 2
[AD-A130350] 01 p0016 N84-10105
Rapid runway repair program subtask 1.07 - rapid concrete cutting
[AD-A131771] 03 p0338 N84-12195
Report and recommendations for improving constitutive relations used in computer codes
[AD-A133239] 06 p0897 N84-15823
Assessment of the potential of Langmuir-Blodgett films for room temperature IR (infrared) detectors
[AD-A134616] 08 p1161 N84-17561
Extragalactic radio sources: Rapid variability at 90 GHz
[AD-A136533] 10 p1595 N84-20451
DARPA (Defense Advanced Research Projects Agency) air vehicles technology office technical task order contract
[AD-A138887] 14 p2105 N84-23625
Strategic computing and survivability research
[AD-A141717] 19 p3081 N84-29548

BECHTEL CORP., SAN FRANCISCO, CALIF.
Photovoltaic system grounding and fault protection 22 p3584 N84-32696

BEDFORD RESEARCH ASSOCIATES, MASS.
Investigate and verify the validity of mathematical formulas in relation to data obtained from theoretical investigations and experimental observations
[AD-A137847] 11 p1682 N84-20974
Application of methods of numerical and software engineering analysis to physical and engineering data collected in a variety of laboratory and field measurement programs
[AD-A137863] 11 p1682 N84-20975
Computer Generated Acquisition Document System (CGADS)
[AD-P002784] 13 p2055 N84-23331

BEERS ASSOCIATES, INC., RESTON, VA.
Continued investigation of the atomic physics of flashlamp pumped cesium-neon lasers
[AD-A130223] 01 p0086 N84-10561

BEHAVIORAL INST. FOR TECHNOLOGY AND SCIENCE, INC., WEST LAFAYETTE, IND.
A theoretical approach to measuring pilot workload
[NASA-CR-173297] 08 p1205 N84-17859

BELDEN CORP., CHICAGO, ILL.
Design aspects of loose buffer tube fiber optics cable 11 p1722 N84-21234

BELFOTOP P.V.B.A., WEMMEL (BELGIUM).
Inventory of Flemish forests using medium-scale Color Infrared (CIR) photography and CIR orthophotoplans as base for a forest management data bank 03 p0400 N84-12614

BELGIAN ROYAL OBSERVATORY, UCCLE.
Physics of the Earth's interior 07 p1029 N84-16667

BELL AEROSPACE CO., BUFFALO, N. Y.
Acoustical modes of arbitrary volumes using NASTRAN transient heat transfer RF9 06 p0859 N84-15597
An alternative method of analysis for base accelerated dynamic response in NASTRAN 06 p0859 N84-15598

BELL AEROSPACE CORP., WHEATFIELD, N. Y.
LACV-30 increased payload study
[AD-A133804] 05 p0662 N84-14355

BELL HELICOPTER CO., FORT WORTH, TEX.
Noise reduction techniques: Criteria and validation 19 p3096 N84-29664
High-speed noise of helicopter rotors 19 p3097 N84-29673
State of the art: Design for noise II 19 p3099 N84-29683

BELL-NORTHERN RESEARCH LTD., OTTAWA (ONTARIO).
Coding of full motion color video signals at 50 kb/s
[AD-A134319] 08 p1146 N84-17456
A field splicing system for single-mode optical fiber 11 p1726 N84-21257

BELL TELEPHONE LABS., INC., GREENSBORO, N. C.
Study of the FAA (Federal Aviation Administration) program to modernize maintenance operations
[AD-A142295] 20 p3125 N84-29848

BELL TELEPHONE LABS., INC., HOLMDEL, N. J.
New quality assessment procedure for exchange area cable transmission parameters 11 p1720 N84-21218
Testing and error analysis of a real-time controller 13 p2027 N84-23144
Nonlinear optical interfaces 14 p2233 N84-24396
Room temperature optical nonlinearities in GaAs multiple quantum wells 14 p2235 N84-24408
Optical bistability based on self-focusing 14 p2237 N84-24424
Considerations involved in the design of an optical digital computer 14 p2239 N84-24444
Multipath outage performance of digital radio receivers using finite-tap adaptive equalizers 15 p2324 N84-24955

BELL TELEPHONE LABS., INC., MURRAY HILL, N. J.
The ISPM experiment for spectral, composition and anistropy measurements of charged particles at low energie 09 p1261 N84-18235
Buckling of optical fibers within elastomers used in an embedded-core cable structure 11 p1722 N84-21233
Advances in GaAs bistable optical devices 14 p2233 N84-24394
Zeeman coherence effects in absorptive polarization bistability 14 p2235 N84-24412
Spin correlations near the ferromagnetic to spin glass crossover
[DE84-007385] 15 p2299 N84-24799
Models of rapid solidification 18 p2936 N84-28623

BELL TELEPHONE LABS., INC., NAPERVILLE, ILL.
Synthesis of multiple-valued logic functions based on a modular design approach
[AD-P002378] 14 p2195 N84-24169

BELL TELEPHONE LABS., INC., NORCROSS, GA.
Unbalanced digital crosswalk in balanced, twisted pair, inside wiring cable 11 p1720 N84-21216
Bell System lightguide cable interconnection equipment, central office to customer premises 11 p1720 N84-21219
Evaluation of adhesive materials for bonded sheath cable designs 11 p1721 N84-21226
A rodent and lightning protective sheath for fiber optic cables 11 p1724 N84-21248
Circuit transmission integrity of plenum cables in a developing fire scenario 11 p1726 N84-21262

BEN GURION UNIV. OF THE NEGEV, BEERSHEVA (ISRAEL).
A comparison of map learning methods: Map study, simulated travel and mixed
[AD-A133544] 06 p0892 N84-15794
Reactions of metastable rare gases with copper atoms
[AD-A136448] 09 p1278 N84-18348

BEN GURION UNIV. OF THE NEGEV, SEDE BOQER (ISRAEL).
The behavior of the atmosphere in the desert planetary boundary layer
[AD-A135962] 09 p1345 N84-18791
Desert emergency of lack of water; how to find and collect water
[AD-A140981] 18 p2789 N84-27703
Desert emergency - lack of water - how to find and collect water. Plants and human survival in the desert
[AD-A142025] 20 p3228 N84-30513

BEND RESEARCH, INC., OREG.
Novel composite membranes
[PB83-243170] 03 p0351 N84-12284
Coupled-transport membranes for metal separations, phase 5
[PB84-127034] 09 p1286 N84-18396

BENDIX CORP., KANSAS CITY, MO.
Multi-directional gaging probe
[DE83-012855] 01 p0065 N84-10551
Development of nondestructive full-test requirements for gold wires on multilayer thick-film hybrid microcircuits
[DE83-014368] 01 p0093 N84-10602
Solvent stress-cracking study for a matrix material
[DE83-014075] 02 p0188 N84-11224
Continuous plasma treatment and resin impregnation of a high-strength fiber material
[DE84-000314] 04 p0492 N84-13229
Vapor degreaser/ultrasonic cleaner solvent evaluation
[DE84-002015] 04 p0508 N84-13331
Coordinate-measuring machine capability
[DE84-002014] 04 p0539 N84-13544
Description of a method and artifact for estimating volumetric uncertainty of coordinate measuring machines
[DE84-002017] 04 p0539 N84-13545
Investigation in the application of computer-aided process-planning techniques for mechanical engineering at Bendix Kansas City
[DE84-000302] 04 p0582 N84-13842
Off-line graphics processing: A case study
[DE84-002420] 06 p0898 N84-15832
Over-aging of aluminum alloys
[DE84-004927] 08 p1135 N84-17382
Measurement of robot accuracy using the Latin Square Three-Dimensional Ball Plate
[DE84-004920] 08 p1206 N84-17862
Titanium fabrication
[DE84-004374] 10 p1462 N84-19551
Measurement capabilities of the Bendix Metrology Organization
[DE84-005876] 11 p1661 N84-20834
Process for producing parts with deep pocketed precision cavities using P/M shape technology
[DE84-006566] 12 p1799 N84-21733
Stress relaxation of cellular silicone material, 1983
[DE84-007103] 12 p1802 N84-21749
Applying robotic technology to the solid film lubricant burnishing operation
[DE84-007113] 12 p1823 N84-21885
IEEE 488 bus pseudo-controller linking talker with listener
[DE84-007093] 12 p1878 N84-22238
Weld penetration variations
[DE84-007915] 13 p1998 N84-22963
Shelf life determination of an epoxy resin by accelerated aging
[DE84-006048] 14 p2121 N84-23709
Nd: YAG laser improvements and modifications
[DE84-009024] 15 p2340 N84-25044
Initial insights on robotics
[DE84-010768] 20 p3197 N84-30302
Robotic deburring. Part 1: Preliminary observations
[DE84-010786] 20 p3197 N84-30305
Three-axis gaging probe
[DE84-015087] 23 p3752 N84-33784

BENDIX CORP., NORTH HOLLYWOOD, CALIF.
Design desiderata for a laminar flow quadrupole-focused acceleration column
[DE84-006534] 12 p1903 N84-22395

BENDIX CORP., TETERBORO, N.J.
Feasibility study for a generalized gate logic software simulator
[NASA-CR-172159] 01 p0118 N84-10765
Modular design attitude control system
[NASA-CR-170996] 10 p1436 N84-19392
Exhibit D modular design attitude control system study
[NASA-CR-170993] 11 p1623 N84-20825
Modular design attitude control system
[NASA-CR-173684] 16 p2548 N84-26352

BENDIX FIELD ENGINEERING CORP., GRAND JUNCTION, COLO.
Assessment of quality of data on tapes from the hydrogeochemical and stream sediment reconnaissance
[DE83-017697] 04 p0554 N84-13647
Uranium anomalies in Wyoming and parts of adjacent states. National Uranium Resource Evaluation
[DE83-005353] 06 p0866 N84-15638
Calibration and performance of a high-resolution gamma-spectroscopy system
[DE84-012792] 22 p3548 N84-32462

BENJAMIN/CLARKE ASSOCIATES, INC., KENSINGTON, MD.
Overall fire safer 11 p1727 N84-21264

BENTLY NEVADA CORP., MINDEN.
A new application of proximity probe measurement on rolling element bearings
[AD-P002679] 11 p1658 N84-20816

BERATUNGSGESELLSCHAFT FUER MINERALOEL ANWENDUNGSTECHNIK M.B.H., HAMBURG (WEST GERMANY).
Research on shear stability of polymer-containing hydraulic oils
[REPT-11] 12 p1800 N84-21737
Viscometric changes of engine oils
[REPT-12] 12 p1800 N84-21738

BERGEN UNIV. (NORWAY).
Application of remote sensing for studies, mapping and forecasting of eddies on the Norwegian continental shelf
03 p0399 N84-12605
Remote sensing of sea ice 08 p1176 N84-17664
Attention, performance, and sustained activation in military air traffic controllers 11 p1698 N84-21076
Eddy studies during Marginal Ice Zone Experiment (MIZEX) 83 by ship and remote sensing observations
23 p3772 N84-33914
Seasonal ice variation in the Barents Sea obtained from the Nimbus 7 Scanning Multichannel Microwave Radiometer (SMMR) observations
23 p3773 N84-33919
The distribution of ice concentration, multiyear and first year fraction in the Arctic Ocean derived from the Nimbus 7 Scanning Multichannel Microwave Radiometer (SMMR) observations 23 p3773 N84-33920
Evaluation of wind estimates over open ocean from the Nimbus 7 scanning multichannel microwave radiometer
23 p3773 N84-33921
BERKELEY RESEARCH ASSOCIATES, INC., CALIF.
Research on intense electron beams and applications
[AD-A134068] 05 p0743 N84-14882
The microstructure theory for three dimensional plasma transport
[AD-A138285] 12 p1910 N84-22441
BERKELEY RESEARCH ASSOCIATION, CALIF.
Results of PLACES data analysis
[AD-A130933] 01 p0066 N84-10432
Research studies on magnetohydrodynamic systems and modeling solar dynamical behavior
[AD-A143680] 23 p3844 N84-34389
BERKELEY SCHOLARS, INC., CALIF.
Theoretical research on charged particle beam and other plasma systems
[AD-A130381] 01 p0149 N84-10976
BERKELEY SCIENTIFIC TRANSLATION SERVICE, CALIF.
Bending elasticity of circularly notched bars as monolithic flexure hinges in precision mechanisms
[DE84-002199] 06 p0861 N84-15612
BERMUDA BIOLOGICAL STATION FOR RESEARCH, INC., FERRY REACH.
Transport and fate of acid rains out of North America
[DE83-015819] 02 p0244 N84-11597
BERN UNIV. (SWITZERLAND).
Mixed solar wind originating from coronal regions of different temperatures 03 p0473 N84-13114
BERNARD BARUCH COLL., NEW YORK.
Brain responses and information processing IV. Investigations of hemispheric asymmetry in event related potentials and performance during discrimination of line orientation, color, shape and under visual masking
[AD-A139797] 15 p2383 N84-25289
BERRY COLL., MOUNT BERRY, GA.
A FMCW radar ranging device for the teleoperator maneuvering system 06 p0930 N84-16045
BERTHOLD (H.) A.G., BERLIN (WEST GERMANY).
Development of optomechanical deflectors for light beams and electronical-optical deflectors with subsequent generation of light to represent characters digitally or partially
[BMFT-FB-T-84-140] 23 p3826 N84-34264
BHARAT ELECTRONICS LTD., GHAZIABAD (INDIA).
Directivity and spacing for the antenna elements
17 p2693 N84-27154
BHARAT HEAVY ELECTRICALS LTD., HYDERABAD (INDIA).
German/Indian cooperation program for solar powered water pumps, phase 1
[BMFT-FB-T-83-171] 07 p1026 N84-16651
BICC TELECOMMUNICATION CABLES LTD., PRESCOT (ENGLAND).
A practical single-mode system, 50 km at 140 mbit/s
11 p1725 N84-21253
BIELEFELD UNIV. (WEST GERMANY).
Estimates of one-dimensional oscillatory integrals
13 p2032 N84-23179
Approach to equilibrium of a relativistic gas
17 p2669 N84-27018
A variational formulation for dissipative maps
[REPT-81] 20 p3283 N84-30846
A nonstandard construction of Levy Brownian motion
[REPT-82] 20 p3285 N84-30861
Stochastic quantization: Stabilizing quantum models
[REPT-80] 20 p3312 N84-31032
Applications of the Malliavin calculus, part 2
[REPT-83-PT-2] 21 p3476 N84-32032
BIHRLE APPLIED RESEARCH, INC., JERICHO, N. Y.
Rotary balance data for a typical single-engine general aviation design for an angle-of-attack range of 20 to 90 deg. 3: Influence of control deflection on predicted model D spin modes
[NASA-CR-3248] 16 p2438 N84-25641
BIONETICS CORP., HAMPTON, VA.
Technology evaluation of man-rated acceleration test equipment for vestibular research
[NASA-CR-172160] 04 p0574 N84-13781
Acoustic tests of the MOD-O/5A wind turbine rotor with two different ailerons
[NASA-CR-172427] 21 p3491 N84-32120
BIOTECHNOLOGY, INC., FALLS CHURCH, VA.
A flight investigation of simulated data link communications during single-pilot IFR flight
03 p0313 N84-12046
OSHA medical and workplace surveillance requirements and NIOSH recommendations (for employees exposed to toxic substances and other work hazards)
[NASA-CR-3690] 07 p0966 N84-16258
A review of major issues relating to human-machine integration in the development of military systems
[AD-A136739] 10 p1554 N84-20184
An introduction to human factors for engineering managers: Framework for a teaching unit
[AD-A135958] 10 p1592 N84-20428
BIRMINGHAM UNIV. (ENGLAND).
A review of propagation and scattering factors in remote-sensing and ship-tracking by HF radar
06 p0868 N84-15655
Ionic reactions of atmospheric importance
[AD-A137166] 11 p1683 N84-20981
Effect of preferred orientation on crack growth properties of Ti-6Al-4V alloys, part 2
[BR89101-PT-2] 15 p2296 N84-24780
Effect of preferred orientation on crack growth properties of Ti-6Al-4V alloys, part 1
[BR89100-PT-1] 15 p2299 N84-24802
BJORKSTEN RESEARCH LABS., INC., MADISON, WIS.
Development of the sonic pump levitation
[NASA-CR-161963] 22 p3592 N84-32749
BLACK AND VEATCH CONSULTING ENGINEERS, KANSAS CITY, MO.
Photovoltaic central station step and touch potential considerations in grounding system design
22 p3584 N84-32699
BODENSEEWERK GERAETETECHNIK G.M.B.H., UEBERLINGEN (WEST GERMANY).
An integrated AFCS for the "PROFILE"-mode
03 p0317 N84-12069
Missile system: Simulation and validation
12 p1764 N84-21502
Vertical gyro with erection system and indication mechanism
[BMFT-FB-W-83-034] 12 p1819 N84-21858
Failure Identification Module (FIM) for digital control systems 17 p2586 N84-26573
BOEING AEROSPACE CO., KENT, WASH.
Definition of technology development missions for early space stations. Large space structures, phase 2, midterm review
[NASA-CR-171004] 13 p1939 N84-22607
BOEING AEROSPACE CO., SEATTLE, WASH.
Integrated Cuing Requirements (ICR) study: Feasibility analysis and demonstration study
[AD-A131039] 01 p0117 N84-10758
AFWL benchmark computer program
[AD-A131273] 01 p0124 N84-10804
Study of auxiliary propulsion requirements for large space systems. Volume 1: Executive summary
[NASA-CR-166193-VOL-1] 03 p0343 N84-12226
Integrated Cuing Requirements (ICR) study: Demonstration data base and users guide
[AD-A131119] 03 p0459 N84-13019
Study of auxiliary propulsion requirements for large space systems, volume 2
[NASA-CR-166193-VOL-2] 04 p0490 N84-13218
Analysis of regenerative fuel cells
[NASA-CR-171783] 04 p0557 N84-13671
Space station needs, attributes and architectural options study. Volume 1: Executive study
[NASA-CR-173334] 09 p1266 N84-18265
Space station needs, attributes and architectural options study. Volume 2: Mission analysis
[NASA-CR-173333] 09 p1266 N84-18266
Space station needs, attributes and architectural options study. Volume 3: Requirements
[NASA-CR-173332] 09 p1266 N84-18267
Space station needs, attributes and architectural options study. Volume 4: Architectural options, subsystems, technology and programmatics
[NASA-CR-173331] 09 p1266 N84-18268
Space station needs, attributes and architectural options study. Final executive review
[NASA-CR-173335] 09 p1267 N84-18269
Systems/operations technology
09 p1268 N84-18278
Advanced aircraft electrical system control technology demonstrator. Phase 1: Requirements analysis & preliminary design. Phase 2: Detailed design
[AD-A136758] 10 p1428 N84-19337
Centrifuge impact cratering experiment 5
[NASA-CR-173354] 10 p1497 N84-19784
Evaluation of propellant tank insulation concepts for low-thrust chemical propulsion systems
[NASA-CR-168320] 11 p1625 N84-20634
Characterization of PMR polyimide resin and prepreg
[NASA-CR-168217] 11 p1636 N84-20695
Evaluation of propellent tank insulation concepts for low-thrust chemical propulsion systems: Executive summary
[NASA-CR-168321] 11 p1636 N84-20699
Software quality measurement for distributed systems, volume 1
[AD-A137955] 11 p1707 N84-21128
Software quality measurement for distributed systems. Volume 2: Guidebook for software quality measurement
[AD-A137956] 11 p1707 N84-21129
Software quality measurement for distributed systems. Volume 3: Distributed computing systems. Impact on software quality
[AD-A137957] 11 p1708 N84-21130
Software interoperability and reusability, volume 1
[AD-A138477] 12 p1883 N84-22276
Software interoperability and reusability. Volume 2: Guidebook for software quality measurement
[AD-A138478] 12 p1884 N84-22277
Integrated testing and maintenance technologies
[AD-A138587] 13 p1925 N84-22528
Space Station Systems Technology Study. Volume 3: Technology and Advancement Program Plan
[NASA-CR-171016] 13 p1940 N84-22613
Space Station Systems Technology Study. Volume 1: Executive summary
[NASA-CR-171014] 13 p1940 N84-22614
Study of flywheel energy storage for space stations
[NASA-CR-171780] 13 p2009 N84-23028
Inversion of experimental optical data
[AD-A138979] 13 p2043 N84-23257
Advanced Platform Systems Technology study. Volume 2: Trade study and technology selection
[NASA-CR-173522] 14 p2115 N84-23672
Advanced Platform Systems Technology study. Volume 3: Supporting data
[NASA-CR-173523] 14 p2115 N84-23673
Advanced Platform Systems Technology study. Volume 4: Technology advancement program plan
[NASA-CR-173524] 14 p2115 N84-23674
Space Station needs, attributes and architectural options study. Volume 7-4A: Data book, architecture, technology and programmatics, part A
[NASA-CR-173686] 18 p2804 N84-27799
Space station needs, attributes and architectural options study. Volume 7-4B: Data book, architecture, technology and programmatics, part B
[NASA-CR-173685] 18 p2804 N84-27800
Space station needs, attributes and architectural options study. Volume 7-5B: Data book. Mission analysis part B
[NASA-CR-173711] 18 p2805 N84-27802
Advanced application of the printed circuit board testability design and rating system
[AD-A141147] 18 p2834 N84-27989
Space Station Systems Technology Study. Volume 2: Trade study and technical selection technical report
[NASA-CR-173776] 19 p2981 N84-28891
Multiprocessor Z-buffer architecture for high-speed, high complexity computer image generation
[AD-A141083] 19 p3074 N84-29507
A corporate approach to an embedded software development and support standard
[AD-P003589] 21 p3340 N84-31194
Broadband cavity-backed slot using printed circuit technology
[AD-P003508] 21 p3384 N84-31476
Special test methods for batteries
23 p3738 N84-33695
Contamination measurements during IUS thermal vacuum tests in a large space chamber
24 p3865 N84-34496
BOEING CO., SEATTLE, WASH.
Subsonic/Transonic Aerodynamic Interference for Aircraft: Introductory remarks 03 p0317 N84-12073
Subsonic/transonic viscous interactions
03 p0317 N84-12075
DOA location accuracy of a multibeam antenna system
[AD-A136386] 09 p1298 N84-18487
EMC (electromagnetic compatibility) system test and analysis interface
[AD-A136064] 09 p1303 N84-18519
Laser ballistic sensor development
[AD-A140427] 17 p2671 N84-27026
Space station needs, attributes and architectural options study. Volume 7-1: Data book. Science and applications missions
[NASA-CR-173702] 18 p2804 N84-27795

Space station needs, attributes and architectural options study. Volume 7-1: Data book. Science and applications missions
[NASA-CR-173700] 18 p2804 N84-27796
Space station needs, attributes and architectural options study. Volume 7-2: Data book. Commercial missions
[NASA-CR-173719] 18 p2804 N84-27797
Space station needs, attributes and architectural options study
[NASA-CR-173699] 18 p2804 N84-27798
Space station needs, attributes and architectural options study. Volume 7-5A: Data book. Mission analysis part A
[NASA-CR-173701] 18 p2805 N84-27801
C3I system modification and EMC (electromagnetic compatibility) methodology, volume 1
[AD-A141420] 19 p3004 N84-29041
MIL-STD-1750A users group
[AD-P003547] 21 p3333 N84-31151
BGRID: A block-structured grid generation code for wing sections
[NASA-CR-166317] 23 p3814 N84-34187

BOEING COMMERCIAL AIRPLANE CO., SEATTLE, WASH.

Secondary electric power generation with minimum engine bleed 01 p0010 N84-10059
Aerodynamic design for overall vehicle performance 03 p0318 N84-12077
Interference problems in aircraft design 03 p0319 N84-12084
Specification for a Program for an Interative Aeroelastic Solution (PIAS)
[NASA-CR-172200] 04 p0479 N84-13153
An analysis of prop-fan/airframe aerodynamic integration
[NASA-CR-152186] 10 p1419 N84-19281
A method for computing the leading-edge suction in a higher-order panel method
[NASA-CR-3730] 11 p1600 N84-20479
Functional integration of vertical flight path and speed control using energy principles 11 p1618 N84-20588
The computation of mesh configurations for three-dimensional flow analysis 12 p1875 N84-22221
Technology for the product and process data base 12 p1889 N84-22302
Design versus manufacturing data base management requirements 12 p1890 N84-22304
Slotted variable camber flap
[NASA-CASE-LAR-12541-1] 13 p1930 N84-22551
MLS/Airplane system design. RF component design
[NASA-CR-172339] 15 p2259 N84-24567
Requirements, applications, and results of strapdown inertial technology to commercial airplanes 16 p2447 N84-25695
An industry test program for interlayer equivalency
[AD-P003200] 17 p2592 N84-26613
The need for application of dynamic mechanical analysis in the evaluation of interlayer materials
[AD-P003211] 17 p2594 N84-26624
Nacelle Aerodynamic and Inertial Loads (NAIL) project
[NASA-CR-165807] 18 p2786 N84-27685
Integrated Application of Active Controls (IAAC) technology to an advanced subsonic transport project: Wing planform study and final configuration selection
[NASA-CR-3468] 18 p2792 N84-27720
Advanced composite elevator for Boeing 727 aircraft. Volume 1: Technical summary
[NASA-CR-3290] 18 p2792 N84-27722
Integrated Application of Active Controls (IAAC) technology to an advanced subsonic transport project: Final ACT configuration evaluation
[NASA-CR-3519] 18 p2792 N84-27723
Integrated Application of Active Controls (IAAC) technology to an advanced subsonic transport project: Current and advanced act control system definition study
[NASA-CR-3545] 18 p2796 N84-27744
Three-dimensional transonic potential flow about complex 3-dimensional configurations
[NASA-CR-3814] 19 p2958 N84-28749
Development of Integrated Programs for Aerospace-vechicle Design (IPAD). IPAD user requirements: Implementation (first-level IPAD)
[NASA-CR-162713] 19 p2963 N84-28776
Nacelle Aerodynamic and Inertial Loads (NAIL) project
[NASA-CR-3585] 19 p2963 N84-28777
Aircraft surface coatings
[NASA-CR-165928] 19 p2963 N84-28778
Integrated Application of Active Controls (IAAC) technology to an advanced subsonic transport project: Current and advanced act control system definition study, volume 1
[NASA-CR-165631-VOL-1] 19 p2967 N84-28802
Integrated Application of Active Controls (IAAC) technology to an advanced subsonic transport project: Current and advanced act control system definition study. Volume 2: Appendices
[NASA-CR-165631-VOL-2] 19 p2967 N84-28803
Integrated Application of Active Controls (IAAC) technology to an advanced subsonic transpot project-demonstration act system definition
[NASA-CR-165920] 19 p2967 N84-28804
Advanced composite stabilizer for Boeing 737 aircraft
[NASA-CR-157639] 19 p2985 N84-28915
Flight service evaluation of two aluminum-brazed titanium spoilers
[NASA-CR-172371] 21 p3364 N84-31343
An extended real-time microwave airplane position system 24 p3850 N84-34419

BOEING COMPUTER SERVICES, INC., SEATTLE, WASH.

Managing geometric information with a data base management system 12 p1874 N84-22211
Review and verification of CARE 3 mathematical model and code
[NASA-CR-166096] 12 p1876 N84-22227
A distributed data base management facility for the CAD/CAM environment 12 p1890 N84-22305
Data management for Computer-Aided Engineering (CAE) 12 p1890 N84-22306
Software reliability: Additional investigations into modeling with replicated experiments
[NASA-CR-172378] 19 p3074 N84-29502

BOEING COMPUTER SERVICES CO., TUKIWILA, OKLA.

Ordering methods for sparse matrices
[AD-A133657] 05 p0735 N84-14824

BOEING MILITARY AIRPLANE DEVELOPMENT, SEATTLE, WASH.

Aeroelastic tailoring of high-aspect-ratio composite wings in the transonic regime 02 p0170 N84-11119
Proposed revisions to MIL-F-8785C related to flight safety of augmented aircraft. Volume 1. Section 1 - 7
[AD-A131414] 02 p0175 N84-11153
Proposed revisions to MIL-F-8785C related to flight safety of augmented aircraft. Volume 2. Appendices A - F
[AD-A131415] 02 p0176 N84-11154
Proposed revisions to MIL-F-8785C related to flight safety of augmented aircraft. Volume 3. Appendix G. Pilot comments
[AD-A131416] 02 p0176 N84-11155
Inlet flow field investigation. Part 1: Transonic flow field survey
[NASA-CR-172239] 06 p0782 N84-15123
Integrated aircraft fuel tank inerting and compartment fire suppression system. Volume 2: Evaluation of nitrogen-enriched air as a fire suppressant
[AD-A134883] 08 p1101 N84-17157
Electrostatic safety with explosion suppressant foams
[AD-A137503] 10 p1424 N84-19314
Numerical solution of three-dimensional unsteady transonic flow over wings including inviscid/viscous interactions
[NASA-CR-166561] 11 p1600 N84-20478
Inlet flowfield investigation. Part 2: Computation of the flow about a supercruise forebody at supersonic speeds
[NASA-CR-172315] 12 p1766 N84-21516
Further development of XTRAN3S computer program
[NASA-CR-172335] 14 p2101 N84-23608
Multi-length scale turbulence models
[AD-A140527] 16 p2493 N84-25997
Measurements of the fuel mileage of a KC-135 aircraft with and without winglets 18 p2787 N84-27690
Comparison of flight measured, predicted and wind tunnel measured winglet characteristics on a KC-135 aircraft 18 p2787 N84-27691
PAN AIR: A computer program for predicting subsonic or supersonic linear potential flows about arbitrary configurations using a higher order panel method. Volume 1: Theory document (version 1.1)
[NASA-CR-3251] 18 p2788 N84-27697
PAN AIR: A computer program for predicting subsonic or supersonic linear potential flows about arbitrary configurations using a high order panel method. Volume 2: User's manual (version 1.1)
[NASA-CR-3252] 18 p2788 N84-27698
PAN AIR summary document (version 1.0)
[NASA-CR-3250] 19 p2957 N84-28741
Achieving the benefits of modular avionics design
[AD-P003562] 21 p3336 N84-31167
PAN AIR: A computer program for predicting subsonic or supersonic linear potential flows about arbitrary configurations using a higher order panel method. Volume 4: Maintenance document (version 1.1)
[NASA-CR-3254] 23 p3690 N84-33388

BOEING MILITARY AIRPLANE DEVELOPMENT, WICHITA, KANS.

Design and verification of electromagnetic compatibility in airborne weapons systems 06 p0773 N84-15066
Dynamic assessment of B-52B-008 carrier aircraft for the revised Space Shuttle solid rocket booster decelerator subsystem drop test vehicle
[NASA-CR-170989] 12 p1779 N84-21606
Concurrency of design criteria: A key to trainer readiness
[AD-P003454] 21 p3509 N84-32231
Software documentation support
[AD-P003487] 21 p3513 N84-32254
Increased readiness through modularity
[AD-P003491] 21 p3514 N84-32257
Profit responsibilities in the simulation and training equipment industry
[AD-P003497] 21 p3515 N84-32263

BOEING VERTOL CO., PHILADELPHIA, PA.

A study of the aerodynamic interactions of the tail rotor and fin
[AD-A130757] 01 p0005 N84-10030
Helicopter flying qualities characteristics-CH-46E, volume 1
[AD-A134320] 07 p0951 N84-16170
Helicopter flying qualities characteristics-CH-46E, volume 2
[AD-A134321] 07 p0951 N84-16171
Helicopter flying qualities characteristics-CH-46E, volume 3
[AD-A134322] 07 p0951 N84-16172
Helicopter flying qualities characteristics-CH-46E, volume 4
[AD-A134323] 07 p0951 N84-16173
Investigation of the effect of blade sweep on rotor vibratory loads
[NASA-CR-166526] 09 p1256 N84-18196
Investigation of operational and design factors resulting from main rotor and tail rotor interactions
[AD-A137710] 11 p1603 N84-20497
Research opportunities for rotorcraft 11 p1619 N84-20596
Boeing Vertol noise reduction experience 19 p3096 N84-29657
Role of empirical methods 19 p3097 N84-29670

BOEWE MASCHINENFABRIK G.M.B.H., AUGSBERG (WEST GERMANY).

Development of a wind energy converter with single blade rotor
[BMFT-FB-T-84-114] 23 p3792 N84-34050

BOHAN (WALTER A.) CO., PARK RIDGE, ILL.

Navy tactical applications guide. Volume 5, Part 1: Indian Ocean (Red Sea/Persian Gulf) weather analysis and forecast applications
[AD-A134412] 07 p1039 N84-16740
Navy tactical applications guide. Operational environmental satellites. Polar-orbiting satellites geostationary satellites, spacecraft, sensors, imagery
[AD-A135466] 08 p1113 N84-17240

BOLOGNA UNIV. (ITALY).

Geographic operators for management of a data base for frequency planning 10 p1476 N84-19648

BOLT, BERANEK, AND NEWMAN, INC., CAMBRIDGE, MASS.

Language processing for speech understanding
[AD-A131281] 01 p0065 N84-10423
FINDS: A fault inferring nonlinear detection system. User's guide
[NASA-CR-172199] 02 p0176 N84-11156
Discourse and problem solving
[AD-A131003] 02 p0277 N84-11818
Natural language communication with machines: An ongoing goal
[AD-A131320] 02 p0278 N84-11820
What's important about knowledge representation
[AD-A131280] 02 p0278 N84-11825
A technical overview of the National Software Works
[AD-A132320] 04 p0580 N84-13827
Pluribus satellite IMP (Interface Message Provision) development mobile access terminal network
[AD-A132690] 05 p0670 N84-14405
Research in knowledge representation for natural language understanding
[AD-A134102] 05 p0726 N84-14765
Some remarks on the role of logic in knowledge representation
[AD-A132534] 05 p0732 N84-14806
The syntactic theory of belief and knowledge
[AD-A133905] 05 p0732 N84-14807
A pilot/vehicle model analysis of the effects of motion cues on Harrier control tasks
[AD-A136291] 09 p1258 N84-18209
Pluribus satellite IMP (Interface Message Provision) development mobile access terminal network
[AD-A136256] 09 p1298 N84-18486
Research in continuous speech recognition
[AD-A136990] 10 p1482 N84-19682
Vibration challenges in microelectronics manufacturing 10 p1508 N84-19870

Applied cognitive science
[AD-A136780] 10 p1554 N84-20185
Explaining complex engineered devices
[AD-A136790] 10 p1554 N84-20186
Laser generation of ultrasound
[AD-A138483] 12 p1821 N84-21870
Cronus: A distributed operating system
[AD-A139588] 14 p2209 N84-24260
CRONUS: A distributed operating system
[AD-A139983] 15 p2368 N84-25328
F-14 modeling study
[NASA-CR-172336] 16 p2448 N84-25701
Development of a model for human operator learning in continuous estimation and control tasks
[AD-A140320] 16 p2536 N84-26294
The VERRUN and VERNAL software systems for steady-state visual evoked response experimentation
[NASA-CR-172311] 16 p2539 N84-26298
Multisensor speech input
[AD-A140894] 17 p2654 N84-26974
Preliminary evaluation of waveguide vibration absorbers
[AD-A140743] 17 p2680 N84-27070
Display-control compatibility in 3-D displays
[AD-A140640] 17 p2748 N84-27444
Objective speech quality evaluation of real-time speech coders
[AD-A141194] 18 p2829 N84-27959
SRB/FWC water impact: Flexible body loads test
[NASA-CR-171076] 19 p3020 N84-29147
SRB/FWC water impact: Flexible body loads test
[NASA-CR-173786] 19 p3021 N84-29156
Cronus, A distributed operating system: Functional definition and system concept
[AD-A142795] 21 p3462 N84-31950
Loss factors measured in metal matrix composite materials
[AD-A143542] 22 p3545 N84-32440
Application of stiffened cylinder analysis to ATP interior noise studies
[NASA-CR-172384] 22 p3652 N84-33147

BOLT, BERANEK, AND NEWMAN, INC., CANOGA PARK, CALIF.
The detectability of repetitive, periodic impulses
[AD-A132744] 05 p0713 N84-14675
Studies to improve environmental assessments of sonic booms produced during air combat maneuvering
[AD-A138254] 12 p1899 N84-22368
A comparison of measured take-off and flyover sound levels for several general aviation propeller-driven aircraft
[AD-A139901] 15 p2404 N84-25429
Propeller aircraft interior noise model
[NASA-CR-3813] 19 p3099 N84-29687
Overground Excess Sound Attenuation (ESA). Volume 2: Analysis of data for flat grassy terrain conditions
[AD-A142420] 20 p3291 N84-30892

BOMIN-SOLAR G.M.B.H., LOERRACH (WEST GERMANY).
Recent advances in design of low cost film concentrator and low pressure free piston Stirling engines for solar power 18 p2875 N84-28253

BONN UNIV. (WEST GERMANY).
Asymptotic expansions of the pressure and the free boundary for flows through porous media
[PREPRINT-584] 02 p0221 N84-11448
Studies of satellite geodesy, Very Long Baseline Interferometry (VLBI) and geodetic measuring techniques
[BONN-MITT-65] 02 p0233 N84-11528
Experiment to measure microkinematic processes on the surface of the Earth 02 p0233 N84-11529
Interdisciplinary aspects of technical measurements 02 p0233 N84-11530
Investigation of the precision and utilization of a digital barometer based on the piezoresistive principle 02 p0233 N84-11531
Variations of ocean surfaces from ERS-1 altimeter data for repetitive orbits 02 p0233 N84-11532
New opportunities for old measuring methods by using Automatic Seconds Theodolites (AST) 02 p0234 N84-11533
Determination of a geoid profile across the Alps using Doppler measurements of the US Navy Navigation Satellite System (NNSS) 02 p0234 N84-11534
Modern hygrometer. Is it an alternative to psychrometric humidity measurement? 02 p0234 N84-11535
First experiences with the Mark 3 Very Long Baseline Interferometry (VLBI) data analysis system 02 p0234 N84-11536
A multiple shooting algorithm for direct solution of optimal control problems
[PREPRINT-589] 02 p0279 N84-11827
Theory of interstellar medium diagnostics 03 p0472 N84-13108
Minor constituents in the solar wind originating from plasma-dust interactions 03 p0474 N84-13116
Kinematics of the structure and morphology during surface reactions between transition metals and molecular hydrogen 06 p0816 N84-15317
The IPSM coronal-sounding experiment 09 p1262 N84-18240
The manifold of spheroidal galaxies 09 p1409 N84-19208
COMFLO: An experimental program for multigrid treatment of subsonic potential flows past airfoil profiles
[PREPRINT-604] 10 p1423 N84-19302
Radiation for box budgets 10 p1535 N84-20058
Solutions of the Navier-Stokes equations for stationary flow in a spherical gap
[PREPRINT-611] 13 p1991 N84-22925
On the optimal approximation rates for criss-cross finite element spaces
[PREPRINT-622] 15 p2397 N84-25378
Estimation of variances and covariances in the multivariate and in the incomplete multivariate model 16 p2504 N84-26073
Compressible flows of jets and cavities
[PREPRINT-637] 17 p2689 N84-27022
On the singular set and the uniqueness of weak solutions of the Navier-Stokes equations
[PREPRINT-635] 17 p2759 N84-27523
New hydrodynamic potentials and a free boundary value problem of the stationary Stokes equation
[PREPRINT-636] 17 p2760 N84-27524
Photometric and positional accuracy of the PDS Bonn in view of astronomical requirements 18 p2839 N84-28023
A splash and sheet erosion model from LANDSAT data 23 p3771 N84-33903
Geophysical use of the data of the ERS-1 altimeter 23 p3776 N84-33943

BONNER AND MOORE ASSOCIATES, INC., HOUSTON, TEX.
Impact assessment of reducing gasoline volatility
[PB84-152024] 14 p2133 N84-23781

BOOZ-ALLEN AND HAMILTON, INC., ARLINGTON, VA.
Space Station commercial user development
[NASA-CR-173688] 18 p2798 N84-27756

BOOZ-ALLEN AND HAMILTON, INC., BEDFORD, MASS.
LONEX (Laboratory Office Network Experiment) cost/benefits study, volume 1
[AD-A141396] 19 p3114 N84-29786
LONEX (Laboatory Office Network Experiment) cost/benefits study, volume 2
[AD-A141397] 19 p3114 N84-29787

BOOZ-ALLEN AND HAMILTON, INC., BETHESDA, MD.
Investigation of the applicability of a stored hydraulic energy propulsion system to a conventional bus
[PB84-115021] 11 p1753 N84-21446

BORDEAUX UNIV. (FRANCE).
Cosmic ray exposure ages of iron meteorites, complex irradiation and the constancy of cosmic ray flux in the past 11 p1755 N84-21455
Formal and group Picard localization 13 p2032 N84-23174

BORG-WARNER CORP., CITY OF COMMERCE, CALIF.
Critical speed of centrifugal pumps 21 p3418 N84-31677

BOSCH (ROBERT) G.M.B.H., STUTTGART (WEST GERMANY).
High strength powder metal (PM) steels by liquid phase sintering
[BMFT-FB-T-83-139] 02 p0198 N84-11287
Central heat pump units: Problems of heat output control
[BMFT-FB-T-83-159] 05 p0681 N84-14480

BOSE CORP., FRAMINGHAM, MASS.
Active noise reduction
[AD-A139741] 15 p2404 N84-25428

BOSTON COLL., CHESTNUT HILL, MASS.
Chemiluminescence and laser induced fluorescence of boron atom reactions
[AD-A131709] 03 p0380 N84-12471
Strong coupling effects on bound states in plasmas
[AD-A131661] 03 p0444 N84-12918
Solar wind variations in the 60-100 year period range: A review 03 p0469 N84-13092
Relating geoid anomalies, gravity anomalies and ocean topography
[AD-A140112] 15 p2354 N84-25127
Estimates of precipitating electron power flux from simultaneous DMSP auroral image and ISEE-1 AKR observations
[AD-P002109] 16 p2523 N84-26195
Requirements for validating system models
[AD-P002128] 16 p2525 N84-26214
Three component solar wind model 16 p2581 N84-26555
MST radar detection of middle atmosphere tides 17 p2682 N84-27079

BOSTON UNIV., MASS.
Rocket exhaust effects as active space plasma experiments of opportunity 05 p0640 N84-14211
Nonlinear Green's function method for transonic potential flow 06 p0779 N84-15104
Self-sustained oscillations of a shock wave interacting with a boundary layer on a supercritical airfoil
[NASA-CR-175338] 07 p0945 N84-16131
Investigation of the structure of photosynthetic reaction centers
[DE84-002886] 07 p1043 N84-16760
Optical, radio and computer simulation studies of the Brazil ionospheric modification experiment of 8 September 1982
[AD-A135143] 08 p1186 N84-17731
Products of photodegradation for coumarin laser dyes
[AD-A136308] 09 p1320 N84-18624
Photochemistry and photophysics of laser dyes
[AD-A136330] 09 p1320 N84-18626
Photodegradation of coumarin laser dyes. An unexpected singlet self-quenching mechanism
[AD-A136339] 09 p1321 N84-18628
Solvent effects on emission yield and lifetime for coumarin laser dyes. Requirements for a rotatory decay mechanism
[AD-A136358] 09 p1321 N84-18629
Photophysical and photochemical properties of coumarin laser dyes in amphiphilic media
[AD-A136361] 09 p1321 N84-18630
Electron donor-acceptor quenching and photoinduced electron transfer for coumarin dyes
[AD-A136345] 09 p1394 N84-19105
Dynamic models of neural systems: Propagated signals, photoreceptor transduction, and circadian rhythms
[AD-A137826] 11 p1695 N84-21059
Linear and nonlinear finite elements
[AD-A138468] 12 p1895 N84-22341
Effect of driving laser fluctuations on optical bistability 14 p2235 N84-24413
A probe for measuring spacecraft surface potentials using a direct-gate field effect transistor
[AD-A140024] 15 p2283 N84-24706
Geologic observations of the Martian highland boundary in the Mamers Valles region 15 p2426 N84-25572
A study of geomagnetic pulsations using the AFGL (Air Force Geophysics Laboratory) magnetometer network
[AD-A140507] 16 p2526 N84-26217
Hematologic and biochemical data on healthy individuals participating in a physical conditioning program
[AD-A140464] 16 p2536 N84-26278
A preliminary analysis of a diode array for densitometry 18 p2842 N84-28045
Study of intermediates from transition metal excited-state electron-transfer reactions
[DE84-008587] 18 p2942 N84-28657
Investigation of the structure of photosynthetic reaction centers
[DE84-012475] 20 p3150 N84-30005
Nonlinear dynamics of multi-channel binocular vision
[AD-A142600] 20 p3260 N84-30689
An integral equation for the solution of nonlinear wave equations 22 p3529 N84-32347
Infrared absorption spectrum of free carriers in polar semiconductors
[DE84-013276] 22 p3667 N84-33248

BOWIE STATE COLL., MD.
Characterization of physio-chemical properties of polymeric and electrochemical materials for aerospace flight
[NASA-CR-175406] 10 p1465 N84-19568
Characterization of physiochemical properties of polymeric and electrochemical materials for aerospace flight
[NASA-CR-175258] 22 p3558 N84-32534
Second plateau voltage in nickel-cadmium cells 23 p3737 N84-33684

BOWLING GREEN STATE UNIV., OHIO.
Decision making and information processing under various uncertainty conditions
[AD-A132051] 04 p0572 N84-13770

BRANDEIS UNIV., WALTHAM, MASS.
Differences between positrons and electrons in elastic and inelastic processes at surfaces
[DE84-001208] 06 p0916 N84-15953
Optically-induced bistability in a nematic liquid crystal 14 p2234 N84-24401

BRAZEBRIGHT INDUSTRIES (PROPRIETARY) LTD. (SOUTH AFRICA).
Furnace brazing: A mass production method for producing high strength joints 09 p1292 N84-18434

BREAULT RESEARCH ORGANIZATION, TUCSON, ARIZ.
Stray light analysis of the Diffuse Infrared Background Experiment (DIRBE)
[NASA-CR-175225] 16 p2575 N84-26529

BRETT SCHACHAT ASSOCIATES, JOHANNESBURG (SOUTH AFRICA).
Tendering on a micro computer
05 p0717 N84-14700
BRIGHAM YOUNG UNIV., PROVO, UTAH.
Separation as asphaltenes using high-resolution supercritical-fluid chromatography
01 p0038 N84-10240
Battery transport data
[DE84-001640] 04 p0526 N84-13462
Adaptations to a high fat diet which increase exercise endurance in male rats 04 p0570 N84-13755
Capillary supercritical fluid chromatography of polycyclic aromatic compounds
[DE84-002939] 07 p0972 N84-16302
Metal-support interactions: Their effects upon adsorption, electronic, and activity/selectivity properties of cobalt in CO hydrogenation
[DE83-013012] 10 p1457 N84-19516
Manufacturing information system
[AD-A137891] 11 p1641 N84-20730
Supercritical fluid chromatography/supersonic jet spectroscopy
[DE84-007364] 15 p2287 N84-24724
Supercritical and chromotography/supersonic jet spectroscopy
[DE84-012124] 21 p3360 N84-31312
Kinetics of open circuit processes in undischarged Li/SOCl2 cells
[CONTRIB-336] 23 p3736 N84-33675
Pioneer 10 and 11 (Jupiter and Saturn) magnetometer experiment
[NASA-CR-174006] 24 p3989 N84-35241
BRIMROSE CORP. OF AMERICA, BALTIMORE, MD.
Real-time X-ray diffraction: Applications to materials characterization 18 p2939 N84-28644
BRISTOL UNIV. (ENGLAND).
Glass fibre/epoxy resin interface life-time prediction
[AD-A132206] 04 p0507 N84-13320
AgRISTARS stage 3: The Bristol interactive scheme (BIAS) for satellite-improved rainfall monitoring: Further developments, testing and method description
[PB84-150630] 12 p1837 N84-21976
A fuzzy relational inference language for expert systems
[AD-P002380] 14 p2196 N84-24171
Wake visualization
[BU-282] 15 p2255 N84-24542
Investigation of the dynamic properties of an elastomer bush
[BU-283] 15 p2255 N84-24543
An investigation into the nature and control of vortex flow round helicopter upsweep
[BU-285] 15 p2255 N84-24544
The effect of perforation on the aerodynamics of a spoiler
[BU-286] 15 p2255 N84-24545
The instability of axisymmetric supersonic jet impinging on flat plate
[BU-287] 15 p2256 N84-24546
The aerodynamic effects of cavities in a body
[BU-289] 15 p2256 N84-24547
The impingement of an underexpanded air jet on square section beams
[BU-291] 15 p2256 N84-24548
An investigation into anti-swirl devices for s-shaped air intakes
[BU-293] 15 p2256 N84-24549
Demonstration of boundary layer characteristics
[BU-299] 15 p2256 N84-24550
A circulation meter for the measurement of discrete vortices
[BU-300] 15 p2256 N84-24551
The influence of a moving suspension on the behaviour of modelled helicopter underslung loads
[BU-288] 15 p2260 N84-24573
The structural and aerodynamic behaviour of a semi-inflatable wing
[BU-297] 15 p2260 N84-24574
A digital flight control system for an unstable aircraft
[BU-292] 15 p2264 N84-24594
An investigation into the sand erosion technique as a means of determining the wind environment around buildings
[BU-294] 15 p2306 N84-24832
The filling effect of blockages in wide angle diffusers
[BU-284] 15 p2332 N84-25005
Oblique vortex induced vibration of cylinders
[BU-295] 15 p2350 N84-25104
Investigation of a cylindrical inflated beam-column structure
[BU-301] 15 p2350 N84-25105
A study of the action of an airgun
[BU-296] 16 p2454 N84-25734
Application of optical methods, including optical interference, to measure the dimensional stability of resins, resin based adhesives and resin based composites
[AD-A140297] 16 p2472 N84-25843
BRITISH AEROSPACE AIRCRAFT GROUP, BROUGH (ENGLAND).
The integration of flight and engine control for VSTOL aircraft 03 p0317 N84-12070
Secondary power supplies for a small single engine combat aircraft 03 p0334 N84-12175
Techniques for interbus communication in a multibus avionic system 06 p0771 N84-15050
The accelerated light model technique of store separation as developed and used at British Aerospace, Brough 14 p2099 N84-23597
BRITISH AEROSPACE AIRCRAFT GROUP, KINGSTON-UPON-THAMES (ENGLAND).
The influence of V/STOL on wing design and tailplane design 16 p2436 N84-25627
Ground based testing without wind tunnels
16 p2437 N84-25634
Notes on special flight aspects, such as STO, ski-jump and ODM 16 p2437 N84-25637
Vortex lifted stone ingestion: The influence of stone diameter
[BAE-KRS-N-GEN-276] 17 p2603 N84-26676
Further thoughts on shot peening (and other compression inducing surface treatments) for fatigue enhancement
[BAE-KRS-N-GEN-275] 17 p2622 N84-26779
BRITISH AEROSPACE AIRCRAFT GROUP, PRESTON (ENGLAND).
Aeroelastic considerations in preliminary design of a military combat aircraft 02 p0172 N84-11132
Transonic configuration design (fighter)
03 p0318 N84-12082
Engine-airframe interference effects
03 p0319 N84-12086
Optimization of engine power offtake by secondary power system design 03 p0335 N84-12177
The flight test of an automatic spin prevention system
24 p3847 N84-34398
BRITISH AEROSPACE AIRCRAFT GROUP, WARTON (ENGLAND).
Layout considerations and types of V/STOL aircraft
16 p2436 N84-25629
Wall pressure signature wind-tunnel wall-constraint correction methods
[BAE-ARG-188] 20 p3132 N84-29887
BRITISH AEROSPACE AIRCRAFT GROUP, WEYBRIDGE (ENGLAND).
Aeroelastic design of civil transports at the project stage 02 p0170 N84-11120
BRITISH AEROSPACE DYNAMICS GROUP, BRISTOL (ENGLAND).
Electro-Magnetic Compatability Test Facility, Bristol
[BAE-BT-10658] 13 p1935 N84-22586
Visualisation of the vortex dominated flow around a delta wing-body combination using a water tunnel
[BAE-821/RES/6631] 13 p1988 N84-22904
Correlation between the meteorological parameters and the optical strength of atmospheric turbulence close to the ground. Part 3: Results
[BAE-BT-10771] 13 p2016 N84-23070
Some comparisons between NVL and oracle-based MRTD approaches
[BAE-BT-11240] 13 p2020 N84-23096
A potentially powerful method of simple automatic recognition exhibiting scale and orientation independance
[BAE-BT-11088] 13 p2021 N84-23102
Some considerations of forms and distributions of receptive field units in early visual processing
[BAE-BT-11177] 13 p2021 N84-23103
Some observations on relative approaches to visual acquisition modelling
[BAE-BT-11241] 13 p2021 N84-23104
Detection of horizontal bars as a function of length, separation, eccentricity and frequency of temporal modulation: Possible applications to helicopter acquisition
[BAE-BT-11288] 13 p2021 N84-23105
Modelling of visual search performance
[BAE-BT-14588] 13 p2021 N84-23106
Numeric keyboard layout and computer menu selection
[BAE-BT-11969] 13 p2023 N84-23116
An experimental comparison of operator responses to voice and tone system warnings
[BAE-BT-12051] 13 p2023 N84-23117
Bibliography on direct voice input and direct voice output
[BAE-BT-12363] 13 p2023 N84-23118
A computer program for the evaluation of cubic splines
[BAE-BT-11729] 13 p2026 N84-23131
A general purpose guidance simulation program: Software definition
[BAE-BT-13122] 13 p2026 N84-23132
An introduction to adjoint techniques
[BAE-BT-11172] 13 p2031 N84-23170
Infrared optics: Holographic and surface relief devices
[BAE-BT-11393] 13 p2042 N84-23249
Incorporation of a PROM spatial light modulator into a system for automatic target recognition and tracking
[BAE-BT-12841] 13 p2042 N84-23250
A filtered attitude determination system for spacecraft measurement and control 15 p2267 N84-24612
BRITISH AEROSPACE DYNAMICS GROUP, STEVENAGE (ENGLAND).
Design and development of an advanced solar array drive mechanism 09 p1294 N84-18457
Computerised data acquisition and control methods as related to mechanisms testing 09 p1296 N84-18473
BAe reaction wheels for Olympus
09 p1297 N84-18475
Evolution from a hinge actuator mechanism to an antenna deployment mechanism for use on the European large communications satellite (L-SAT/OLYMPUS)
15 p2347 N84-25084
BRITISH AEROSPACE PUBLIC LTD. CO., BRISTOL (ENGLAND).
Developments in cabin safety and crashworthiness
08 p1101 N84-17161
BRITISH AEROSPACE PUBLIC LTD. CO., BROUGH (ENGLAND).
Advanced cockpit-systems integration
[AD-P003569] 21 p3337 N84-31174
BRITISH AEROSPACE PUBLIC LTD. CO., GODALMING (ENGLAND).
Modern flight instrument displays as a major military aviation flight safety weakness 06 p0778 N84-15098
BRITISH AEROSPACE PUBLIC LTD. CO., LANCASHIRE (ENGLAND).
Integrated powerplant control systems and potential performance benefits 03 p0316 N84-12063
BRITISH AEROSPACE PUBLIC LTD. CO., PRESTON (ENGLAND).
Defect occurrences in the manufacture of large CFC structures and work associated with defects, damage and repair of CFC components 01 p0035 N84-10223
CASCADE: A design environment for future avionic systems 06 p0772 N84-15057
A practical approach to the design of a new avionic system 06 p0772 N84-15058
Hardware-in-the-loop simulation techniques used in the development of the Sea Harrier avionic system
06 p0774 N84-15071
A dynamic approach to military avionics systems testing 06 p0774 N84-15075
Aerodynamics of V/STOL aircraft: Performance assessment 16 p2437 N84-25635
BRITISH AIRWAYS, MIDDLESEX (ENGLAND).
Cost of corrosion for commercial aviation
16 p2436 N84-25624
Airline experience with avionic software development for aircraft integrated data systems
17 p2587 N84-26581
Some crazing experiments on As-cast acrylic to MIL-P-8184
[AD-P003196] 17 p2591 N84-26609
BRITISH ARMY, DETMOLD (WEST GERMANY).
Stressful mission profiles, part 1
16 p2536 N84-26281
Stressful mission profiles, part 2: Workload and fatigue 16 p2536 N84-26282
BRITISH BROADCASTING CORP., KINGSWOOD (ENGLAND).
Satellite broadcasting: Protection ratio requirements for enhanced transmissions using extended PAL vision and digital sound signals
[BBC-RD-1983/18] 07 p0986 N84-16386
Experimental digital stereo sound with terrestrial television: Field tests from Wenvoe, October 1983
[BBC-RD-1983/19] 09 p1298 N84-18483
A range of combined error corection and recording channel code schemes
[BBC-RD-1983/16] 11 p1642 N84-20732
The prediction of field strength in the frequency range 30 - 1000 MHz 15 p2326 N84-24968
The present status of Clean PAL systems
[BBC-RD-1984/6] 20 p3172 N84-30142
The acoustic design of outside broadcast vehicles
[BBC-RD-1984/3] 21 p3381 N84-31454
Digital transmission: 68Mbit/s pal field trial system
[BBC-RD-1984/5] 21 p3381 N84-31455
A transportable satellite Earth station
[BBC-RD-1984/8] 22 p3571 N84-32514
Video noise reduction
[BBC-RD-1984/7] 22 p3571 N84-32515

BRITISH BROADCASTING CORP., LONDON (ENGLAND).

Optical methods of measuring loudspeaker diaphragm movement
[BBC-RD-1983/13] 04 p0517 N84-13396

Optical fibre links for digital YUV signals
[BBC-RD-1983/14] 05 p0665 N84-14372

Aerials for use in television outside broadcasts
[BBC-RD-1983/12] 05 p0665 N84-14373

Digital audio: Dynamic range control of digital audio signals
[BBC-RD-1983/17] 05 p0665 N84-14374

Ionospheric propagation in the L. F. broadcasting band
[BBC-RD-1983/15] 05 p0665 N84-14375

Radio-frequency detonation hazards: Multiple-transmission safety assessment of a detonator loop that may be resonant
[BBC-RD-1983/11] 05 p0666 N84-14380

The CARFAX road traffic information system
[BBC-RD-1984/1] 13 p1975 N84-22818

Intermodulation between v.h.f./t.m. broadcast transmitters and the protection of adjacent-band aeronautical services
[BBC-RD-1984/2] 13 p1975 N84-22819

Filtering of the colour-difference signals in 4:2:2 YUV digital video coding systems
[BBC-RD-1984/4] 20 p3172 N84-30141

BRITISH COLUMBIA UNIV., VANCOUVER.

Variations in surface current off the coasts of Canada as inferred from infrared satellite imagery
17 p2719 N84-27305

The movement of particles in liquid metals under gravity forces and the interaction of particles with advancing solid-liquid interface 24 p3882 N84-34594

BRITISH GAS CORP., LONDON (ENGLAND).

Determining the homomorphis of polar substances by gas-liquid chromatography
[BLL-T6164/BG/LRS-(9022.048)] 01 p0036 N84-10229

The mechanics of bridging cracks
[BLL-T6144/LRST652/83(9022.048)] 01 p0057 N84-10369

Symposium on Heat Pumps per DIN 8900
[BLL-TRANS-T5843/BG-MRS1796-82] 01 p0076 N84-10500

A simple mathematical model for heat transfer and its application for continuous type reheating furnaces 01 p0077 N84-10503

Complete sample analysis by gas chromatography
[BLL-T6213/BG/LRS/LRST671/83] 06 p0800 N84-15212

Some aspects of the corrosion of iron in alkaline solutions and associated fundamental problems
[BLL-T6234/BG/LRS/LRST677/83] 12 p1795 N84-21707

A study of Beta-hydroxyamines and Beta-hydroxysulphides as corrosion inhibitors for metals
[BLL-T6313/BG/WH773/84] 22 p3552 N84-32487

On-site measurement of the speed of corrosion of a metal in water
[BLL-T6310/BG/WH770/84] 22 p3552 N84-32488

BRITISH LIBRARY LENDING DIV., BOSTON SPA (ENGLAND).

Structural anomaly in composite material
[BLL-M-35170-(5828.4)] 01 p0030 N84-10187

Special features of electrochemical determination of non-uniformly distributed oxygen in melts
[BLL-M-35105-(5828.4)] 01 p0036 N84-10226

Chemical and electrochemical properties in molten alkaline hydroxides. 2: Oxidising/reducing reactions of oxygen
[BLL-RISLEY-TR-4775-(9091.9F)] 01 p0036 N84-10227

Properties of manganese alloys for cryogenic engineering
[BLL-M-35127-(5828.4)] 01 p0040 N84-10251

Properties of grey cast iron treated with pulsating current during inoculation
[BLL-M-35118-(5828.4)] 01 p0040 N84-10252

Magnetic properties and structure of monocrystals of Fe-24 percent Cr-15 percent Co-8 percent W alloys
[BLL-M-35131-(5828.4)] 01 p0040 N84-10253

Nickel diffusion along single inter-phase boundaries
[BLL-M-35109-(5828.4)] 01 p0040 N84-10254

Phase transformations and coercive force of alloys based on the compound SmCo5
[BLL-M-35117-(5828.4)] 01 p0040 N84-10255

Heating and melting low-melting ferroalloys and hardeners in molten steel
[BLL-M-35219-(5828.4)] 01 p0040 N84-10256

The redistribution of silicon during the spheroidizing annealing of iron
[BLL-M-35167-(5828.4)] 01 p0040 N84-10257

Thermodynamic activity of carbon in solid nickel
[BLL-M-35192-(5828.4)] 01 p0040 N84-10258

The melting of iron containing reduced amounts of non-ferrous metal impurities
[BLL-M-35209-(5828.4)] 01 p0041 N84-10259

Development of an alloy with high damping properties
[BLL-M-35211-(5828.4)] 01 p0041 N84-10260

The part played by the skin in the denitration of metal during vacuum arc remelting
[BLL-M-35213-(5828.4)] 01 p0041 N84-10261

Features of determination of low concentrations of oxygen in steel by the electrochemical method
[BLL-M-35212-(5828.4)] 01 p0041 N84-10262

Electrical resistances of molten alloys of iron containing carbon, boron and phosphorus
[BLL-M-35214-(5828.4)] 01 p0041 N84-10263

Amorphous materials from precision alloys
[BLL-M-35179-(5828.4)] 01 p0041 N84-10264

Stress corrosion resistance of Z 6 CN 18-9 steel: influence of surface treatment (shot peening, polishing)
[BLL-RISLEY-TR-4777-(9091.9F)] 01 p0041 N84-10265

The oxidation of porous metals
[BLL-TRANS-IZ.148-(5828.4)] 01 p0042 N84-10270

The effect of technological parameters on the heterogeneity of continuously cast slab
[BLL-M-35095-(5828.4)] 01 p0042 N84-10271

Calculation of critical temperatures and correlation parameters in binary alloys by the method of BBGKI equations
[BLL-M-35200-(5828.4)] 01 p0042 N84-10272

Polymerisation of acrolein and its derivatives. 2: Polymerisation of acrolein and alpha-alkyl substituted acrolein in the presence of metallic sodium
[BLL-M-28708-(5828.4)] 01 p0048 N84-10308

Study of factors leading to regrouping of the chain structure during ionic diene polymerization
[BLL-M-28719-(5828.4)] 01 p0048 N84-10309

A method of solving ductility theory problems
[BLL-M-35125-(5828.4)] 01 p0093 N84-10607

Magnetic susceptibility of Fe-B, Fe - P and Ni - P alloys
[BLL-M-35126-(5828.4)] 01 p0138 N84-10902

Non-Newtonian intrinsic viscosity of rigid ellipsoid solutions
[BLL-WH-570-(9091.9F)] 01 p0138 N84-10903

Thermodynamic estimation of influence of alloying on sticking fault energy of bcc metals
[BLL-M-30130-(5828.4)] 01 p0151 N84-10995

Different sensitivity of s- and d-electron energy levels to a change in lattice parameters in transition metals
[BLL-M-35116-(5828.4)] 01 p0151 N84-10996

Calculation of short-range-order structures in Cu-14.5 percent (atom.) Al
[BLL-M-35115-(5828.4)] 01 p0152 N84-10997

Interaction potentials in substitutional solid solutions
[BLL-M-35132-(5828.4)] 01 p0152 N84-10998

Study of the interaction of organomagnesium compounds with the salts of heavy metals and the use of organomagnesium compounds and their complexes as initiators of polymerization
[BLL-M-28720-(5828.4)] 02 p0198 N84-11292

Development of a method and apparatus for quantitative assessment of the iron content of rocks and ores by means of data obtained from borehole radiometry
[BLL-M-28724-(5828.4)] 02 p0246 N84-11613

Formation of structure of low-alloy steel inoculated with rare-earth metals and alkaline-earth metals
[BLL-M-35321] 04 p0497 N84-13258

Non-uniformity of elastic micro-deformations in austenitic steels
[BLL-M-35357-(5828.4)] 04 p0497 N84-13261

Predicting the base phase in the crystallization of eutectic alloys
[BLL-M-35347-(5828.4)] 04 p0497 N84-13262

Methods of optimizing parameters of mechanisms performing repeated brief operations
[BLL-M-35352] 04 p0543 N84-13575

Calculation of the life of components of metallurgical equipment from the parameter of failure probability
[BLL-M-35351-(5828.4F)] 04 p0545 N84-13594

Approximate solution of the problem of thermoelasticity of a sphere with variable properties
[BLL-M-35369-(5828.4F)] 04 p0547 N84-13606

Powder metallurgy
[BLL-M-35271-(5828.4)] 06 p0803 N84-15231

Influence of alloying on the properties of nickel in the solid and liquid states
[BLL-M-35284-(5828.4)] 06 p0803 N84-15232

Stability of mechanical properties of cold-drawn rolled metal with high-temperature thermomechanical treatment
[BLL-M-35292-(5828.4)] 06 p0803 N84-15233

Calculation of structure factor for different cluster models of an amorphous alloy
[BLL-M-35293-(5828.4)] 06 p0803 N84-15234

Comparative study of TiN hard coatings produced by reactive sputtering, ion-plating and CVD technique
[BLL-RARDE-TR-1094(7291.7965)] 06 p0804 N84-15236

Integrated evaluation of the quality of steel cable wire
[BLL-M-35267-(5828.4)] 06 p0854 N84-15564

Theoretical and experimental determination of stress-strain of high-pressure equipment
[BLL-M-35287-(5828.4)] 06 p0856 N84-15574

Fracture resistance of hardened and tempered pipes of 16GFR steel
[BLL-M-35268-(5828.4)] 06 p0857 N84-15584

Aspects of damping of sonic vibrations due to impact loading in plate steels
[BLL-M-35295-(5828.4)] 06 p0908 N84-15895

Abrasive properties of ferroalloys
[BLL-M-35416-(5828.4)] 07 p0973 N84-16306

Experimental water tunnel with density stratification for the simulation of small-scale atmospheric flows
[BLL-RISLEY-TR-4871-(9091.9F)] 08 p1106 N84-17188

Chemical and electrochemical properties in molten alkaline hydroxides
[BLL-RISLEY-TR-4854-(9091.9F)] 08 p1123 N84-17298

Chemical and electrochemical properties in molten alkaline hydroxides. 3: Oxide and acid complexes of some metallic cations
[BLL-RISLEY-TR-4858-(9091.9F)] 08 p1123 N84-17299

On the propagation laws of combustion waves in solids (pyrotechnic reactions)
[BLL-TRANS-1098-(7291.7965)] 08 p1123 N84-17300

Adhesion studies on ion plated TiN steel
[BLL-RISLEY-TR-4880-(9091.9F)] 08 p1129 N84-17341

The practical use of data as to the solution enthalpies of molten Fe-V-Si
[BLL-M-35430-(5828.4)] 08 p1129 N84-17342

Study of intermetallic compounds in ternary systems Al-Ba-Nd and Al-Ba-Yb
[BLL-M-35387-(5828.4)] 08 p1129 N84-17343

Method of high-temperature expansions in short-range order theory
[BLL-M-35385-(5828.4)] 08 p1129 N84-17344

Deposition of polymer films on metal by the electrolysis of aqueous solutions of vinyl monomers
[BLL-LTS-1200/83-(5828.4F)] 08 p1136 N84-17386

Influence of vibration grinding on the properties of tungsten powders and the quality of sintered pieces
[BLL-M-35373] 08 p1140 N84-17414

Multi-transition stamping of components with thin body and tall stiffening ribs
[BLL-M-35384-(5828.4)] 08 p1140 N84-17415

Rules governing the distribution of a gas jet in a liquid. Communication 2
[BLL-M-35437-(5828.4)] 08 p1154 N84-17513

Distribution of unit pressures in universal spindle joint 08 p1165 N84-17588

Optimal electric drive control to suppress jerking
[BLL-M-35391-(5828.4)] 08 p1165 N84-17589

Stress-state index and Nadai-Lode parameter
[BLL-M-35433-(5828.4)] 08 p1169 N84-17612

Integrated evaluation of tensile strengths and ductility limits
[BLL-M-35452-(5828.4)] 08 p1169 N84-17613

Optimum dimensions of solid zirconium dioxide-base electrolyte in transducer of activity meter 08 p1234 N84-18064

Mechanical properties of Mn-Al-C system alloys
[BLL-M-35432] 09 p1280 N84-18362

Martensitic transformations, relaxation and acoustic-emission properties of some alloys of the Fe-Ni-Mn system
[BLL-M-35434-(5828.4)] 09 p1281 N84-18363

Stabilization of thickness of zinc coating by adaptive system of control
[BLL-M-35367-(5828.4)] 09 p1281 N84-18364

Grain size in sintered samarium-cobalt alloys and their coercive force
[BLL-M-35406(5826.4)] 09 p1281 N84-18365

Optimization of parameters of electromechanical systems with mechanical balancing
[BLL-M-35442] 09 p1324 N84-18651

Movement of free-flowing materials in aerodynamic controlled-feed gate 09 p1324 N84-18652

Photoelastic analysis of direct shear tests for granular materials
[BLL-M-28752-(5828.4)] 09 p1328 N84-18671

Numerical investigation of stress-strain state of composite working tool assembled with negative allowance
[BLL-M-35379] 09 p1328 N84-18672

A procedure for investigating the composition of the plasma arc
[BLL-M-35454-(5828.4)] 09 p1391 N84-19083
Magnetic properties of interstitial phases in vanadium-oxygen system
[BLL-M-35386] 09 p1393 N84-19095
Automated document request and delivery systems in the United Kingdom 11 p1752 N84-21436
Diffusional anomalies in deformed metals
[BLL-M-35490-(5828.4)] 12 p1795 N84-21708
Determination of the mixing potential in alloys from experimental data on short-range order
[BLL-M-35498-(5828.4)] 12 p1795 N84-21709
Niobizing carbon steels
[BLL-M-35502-(5828.4)] 12 p1795 N84-21710
Influence of microplastic deformations on spheroidization of cementite in steel
[BLL-M-35503-(5828.4)] 12 p1795 N84-21711
Influence of the base metal on the wear-resistance of high-strength cast iron
[BLL-M-35504-(5828.4)] 12 p1796 N84-21712
Production of porous sheets from metallic powders
[BLL-M-35465-(5828.4)] 12 p1796 N84-21713
Analytical determination of resistance of aluminium alloys to deformation
[BLL-M-35476-(5828.4)] 12 p1796 N84-21714
Quality and reliability of steel wire ropes
[BLL-M-35461-(5828.4)] 12 p1821 N84-21872
Influence of transient regimes of the motor on elastic mechanical vibrations in an electric drive
[BLL-M-35438-(5828.4)] 12 p1825 N84-21896
Thermoelastic stresses in metal with temperature: Dependent properties in radiant heating
[BLL-M-35526-(5828.4)] 13 p1960 N84-22733
Kinetics of corrosion of alloys of vanadium-chromium system in phosphoric acid
[BLL-M-35560-(5828.4)] 17 p2621 N84-26771
Use of refractory coatings to protect metal gainst high-temperature corrosion
[BLL-M-35543-(5828.4)] 17 p2621 N84-26772
Change in surface of molybdenum trioxide during its evaporation in an inert atmosphere
[BLL-M-35552-(5828.4)] 17 p2621 N84-26773
Improvement of heat treatment of tubes of steel 15Kh5M
[BLL-M-35545-(5828.4)] 17 p2621 N84-26774
Experimental study of immiscibility in metallurgical systems
[BLL-M-35553-(5828.4)] 17 p2621 N84-26775
Engineering method of calculating the temperature field of solid and hollow cylinders
[BLL-M-35561-(5828.4)] 17 p2665 N84-26995
Investigation of the characteristics of a ventilated transparent shield
[BLL-M-35562-(5828.4)] 17 p2665 N84-26996
Nature of formation of stopper defect in hoisting ropes
[BLL-M-35544-(5828.4)] 17 p2674 N84-27036
Method for solving variation problems of plasticity theory
[BLL-M-35555-(5828.4)] 17 p2676 N84-27047
Interaction of high-intensity radiation with matter
[BLL-M-35558-(5828.4)] 17 p2764 N84-27553
Crystallogeometric analysis of compatibility of carbon-metal materials
[BLL-M-35559-(5828.4)] 17 p2767 N84-27570
On the structure of the uranium-niobium-chromium-system
[BLL-TRANS-1104-(7291.7965)] 19 p2991 N84-28954
A mathematical model of the formation of powdered metal coatings on castings
[BLL-M-35596-(5828.4)] 19 p2991 N84-28955
Determining the coefficient of heat transfer during the filtration of a heat-carrying agent through a coil
[BLL-M-35601-(5828.4)] 19 p3020 N84-29146
Variation in coefficient accounting for influence of external zones with variation in contact friction conditions
[BLL-M-35596-(5828.4)] 19 p3031 N84-29222
Finding the roots of the transcendental equations in the problem of determining the thermal conductivity of a plate under heterogeneous boundary conditions
[BLL-M-35602-(5828.4)] 19 p3082 N84-29554
Explosion parameters of ferroalloy dusts
[BLL-M-35571-(5828.4)] 20 p3165 N84-30102
Invariance of level of rotating liquid
[BLL-M-35611-(5828.4)] 20 p3182 N84-30220
Scope for active noise abatement in vehicle diesel engines
[BLL-M-28767-(5825.4)] 20 p3290 N84-30885
Analytical methods for determination of inorganic anions
[BLL-WH-592-(9091.9F)] 21 p3358 N84-31301
Use of theory of systems with dispersed parameters to formulate deformation resistance equations in pressure working of metals: Communication 2
[BLL-M-35595-(5828.4)] 21 p3363 N84-31337
One method of assessing the validity of organizational-systems modelling
[BLL-M-35605-(5828.4)] 21 p3508 N84-32222
Special features of information presentation in teaching systems
[BLL-M-35604-(5828.4)] 21 p3516 N84-32273
The controlling reactions during interaction between silicon and carbon
[BLL-M-35673-(5828.4)] 22 p3545 N84-32444
The importance of impact pressure in the development of the process of formation of bonds between metals in the solid phase
[BLL-M-35656-(5828.4)] 22 p3550 N84-32473
Composition and structure of multicomponent vanadium- and niobium-base coatings
[BLL-M-35657-(5828.4)] 22 p3550 N84-32474
Generalization of results of electro-simulation of temperature of the place during centrifugal cladding
[BLL-M-35687-(5828.4)] 22 p3551 N84-32479
Numerical calculations of the function of the static receptivity of electrons in metals
[BLL-M-35640-(5828.4)] 22 p3551 N84-32480
Determination of thermodynamic characteristics of the barium dissolution process in liquid iron
[BLL-M-35634-(5828.4)] 22 p3551 N84-32481
Solid-phase reaction of dispersed graphitized material with aluminium and nickel
[BLL-M-35633-(5828.4)] 22 p3551 N84-32482
Influence of microalloying with titanium and boron on cold resistance of structural steel
[BLL-M-35698-(5828.4)] 22 p3551 N84-32483
Investigation of the state of materials in plasma deposition of refractory coatings
[BLL-M-35686-(5828.4)] 22 p3551 N84-32485
Cubic silicon nitride in iron-silicon steels
[BLL-M-35653-(5828.4)] 22 p3552 N84-32486
Influence of direct current on temperature gradient in directionally solidifying ingot of alloy YuNDK35T5
[BLL-M-35684-(5828.4)] 22 p3553 N84-32495
Features of behaviour of gas bubbles in molten oxide films during enamelling
[BLL-M-35672-(5828.4)] 22 p3553 N84-32496
A procedure for determining the tempo at which alloys solidify
[BLL-M-35642-(5828.4)] 22 p3553 N84-32497
Distribution of micro-heterogeneous deformation in O8Yu steel around inclusions during compression
[BLL-M-35641-(5828.4)] 22 p3553 N84-32498
Influence of choice of pair-interaction potential on results of modelling an edge dislocation in Alpha-iron
[BLL-M-35682-(5828.4)] 22 p3553 N84-32499
Producing thermomagnetic alloy by powder metallurgy
[BLL-M-35668-(5828.4)] 22 p3553 N84-32500
Topochemical reactions and the Stefan problem
[BLL-M-35671-(5828.4)] 22 p3553 N84-32501
Special features of the formation of a bed of polydispersed free-flowing materials
[BLL-M-35674-(5828.4)] 22 p3592 N84-32747
Certain assumptions of theory of hydrodynamic lubrication during metal pressure working
[BLL-M-35681-(5828.4)] 22 p3603 N84-32822
Calculation of thermal stress state for components of metallurgical equipment by electric simulation
[BLL-M-35690-(5828.4)] 22 p3608 N84-32860
Free bulging of round diaphragm exposed to uniform pressure in state of creep
[BLL-M-35680-(5828.4)] 22 p3608 N84-32861
Assessment of trends of input actions of inertial objects
[BLL-M-35689-(5828.4)] 22 p3644 N84-33104
Contributions towards analytical chromatography
[BLL-M-29666-(5828.4)] 24 p3880 N84-34579

BRITISH TELECOMMUNICATIONS RESEARCH LTD., MARTLESHAM HEATH (ENGLAND).

A radically new approach to the installation of optical fibre using the viscous flow of air
11 p1724 N84-21247
Remote-ended time domain bandwidth measurements on installed regenerator sections of multimode optical fibre cable in the British Telecom Network
11 p1727 N84-21267

BROOKHAVEN NATIONAL LAB., UPTON, N. Y.

Cathodic protection in simulated geothermal environments
[DE83-013690] 01 p0045 N84-10291
Carbonaceous anode depolarizers for electrolytic hydrogen production
[DE83-013278] 01 p0053 N84-10343
Overview of US activities in IEA hydrogen technology. Annex 4: Electrolytic hydrogen production
[DE83-013064] 01 p0053 N84-10344
New fluorocarbon elastomers for seals for geothermal and other aggressive environments
[DE83-014424] 01 p0090 N84-10590
Atmospheric Sciences Division
[DE83-014429] 01 p0098 N84-10639
The design and operation of systems for inhalation exposure of animals
[DE83-015388] 01 p0112 N84-10727
Fourier-processed images of dynamic lung function from list-mode data
[DE83-013276] 01 p0114 N84-10741
Quasielastic reactions
[DE83-014616] 01 p0144 N84-10947
Status of P714 - LAPDOG
[DE83-013613] 01 p0164 N84-11079
Optical emission and mass spectrometric studies of plasma deposition
[DE83-016700] 02 p0191 N84-11243
Chemical/hydrogen energy systems
[DE83-012145] 02 p0204 N84-11328
Correlation of superconductor strand, cable, and dipole critical currents in CBA magnets
[DE83-003951] 02 p0214 N84-11400
Inverse free-electron laser accelerator
[DE83-016370] 02 p0228 N84-11493
A study of air-pollution mixing heights and atmospheric turbulence over New York City, data report
[DE83-010624] 02 p0244 N84-11596
The development and implementation of techniques to determine the concentrations of environmental pollutants arising from energy production
[DE83-015386] 02 p0244 N84-11599
Proceedings of the Workshop on Coastal Atmospheric Transport Processes
[DE83-015489] 02 p0244 N84-11601
Fragmentation of small molecules following soft X-ray excitation
[DE83-011645] 02 p0289 N84-11896
Advanced technologies for the recovery, disposal, and reuse of carbon dioxide for atmospheric control
[DE83-016371] 03 p0347 N84-12256
Formation of free hydrogen during radiolysis in a bed of clay
[DE83-017724] 03 p0350 N84-12275
A high-performance digital triggering system for phase-controlled rectifiers
[DE83-012217] 03 p0367 N84-12386
Problem of magnet ramping
[DE83-014054] 03 p0368 N84-12399
Ground coupled heat-pump-system experimental results
[DE83-014011] 03 p0373 N84-12427
The effect of moisture on the physical and durability properties of methyl methacrylate polymer concrete
[DE83-016733] 03 p0390 N84-12541
Universality and fractal dimension of mode locking structure in systems with competing periodicities
[DE83-017352] 03 p0390 N84-12545
Uses of synchrotron radiation
[DE83-014431] 03 p0416 N84-12720
High-level control programs at NSLS
[DE83-010935] 03 p0421 N84-12754
Helium-flow measurement using ultrasonic technique
[DE83-017765] 03 p0431 N84-12826
Progress in lattice gauge theory
[DE83-014055] 03 p0436 N84-12862
Hadron-hadron collider group
[DE83-010704] 03 p0437 N84-12865
Assessment of TRAC-PF1 and RELAP5/MOD1 codes with GE large-vessel blowdown test
[DE83-015384] 03 p0438 N84-12874
Operation of the Brookhaven MPS Facility
[DE83-015383] 03 p0441 N84-12896
Inertial fusion with low-energy heavy ions
[DE83-016709] 03 p0446 N84-12934
Commensurability, chaos, and the devil's staircase
[DE83-013280] 03 p0454 N84-12967
Temperature dependence of the electric-field gradient in Er metal
[DE83-015564] 03 p0454 N84-12989
Characterization of alloy 600 surfaces after exposure to a caustic environment
[DE83-018297] 04 p0503 N84-13300
A helium refrigerator with features for supercritical pressure cooling
[DE84-017759] 04 p0515 N84-13383
Combined cold compressor/ejector helium-refrigerator cycle
[DE83-017764] 04 p0515 N84-13385
Neutrino-oscillation experiments at Brookhaven National Laboratory
[DE83-018275] 04 p0528 N84-13476
The relationship between the martensitic phase transition and the superconducting properties of A15 compounds
[DE83-018186] 04 p0529 N84-13477

Development of electrolysis-cell separator for 1250C operation. Advanced alkaline electrolysis cell development
[DE84-000439] 04 p0530 N84-13484

Channel electron multiplier and optically coupled amplifier used as an incident-flux monitor
[DE84-001451] 04 p0538 N84-13539

Kinetic and spectroscopic studies of cytochrome b-563 in isolated cytochrome b/f complex and in thylakoid membranes
[DE83-017982] 04 p0571 N84-13760

Acceleration of heavy ions in the AGS and CBA
[DE83-017762] 04 p0600 N84-13963

Conceptual design of a 300-GeV accelerator based on the inverse free-electron laser mechanism
[DE84-001471] 04 p0601 N84-13969

Trends in exotic-atom research
[DE84-001679] 04 p0602 N84-13974

Magnetic field measurements of superconducting magnets for the colliding beam accelerator
[DE83-017351] 04 p0603 N84-13982

Colliding-beam-accelerator lattice
[DE83-017875] 04 p0614 N84-14050

Radiation damage in silicon detectors
[DE84-001460] 04 p0614 N84-14056

Effect of silane fraction on the optoelectronic and photovoltaic properties of RF-glow-discharge a-Si:H prepared from SiH4 + H2 mixtures
[DE83-016730] 04 p0615 N84-14058

Design and fabrication of the BNL radio frequency quadrupole
[DE84-001456] 05 p0671 N84-14409

Investigation on low pressure limit of Bayard-Alpert gauge
[DE84-002578] 05 p0685 N84-14502

Focusing X-ray monochromator for EXAFS studies in the energy range 4-30 keV
[DE84-001903] 05 p0685 N84-14505

Atomospheric studies pertaining to sulfur in the environment
[DE84-001455] 05 p0701 N84-14597

Memory intensive functional architecture for distributed computer control systems
[DE84-002579] 05 p0720 N84-14719

Lattice gauge theories
[DE83-013114] 06 p0910 N84-15906

Improved four-stage accel-decel production of low-energy stripped heavy ions
[DE83-005791] 06 p0910 N84-15908

Track chambers for high luminosity
06 p0912 N84-15921

The design and expected performance of a fast scintillator hadron calorimeter 06 p0912 N84-15926

Triggering at high luminosity: Fake triggers from pile-up 06 p0913 N84-15932

Fast asynchronous level 1 pre-trigger for electrons at L = 10/sup 33 cm-2 sec-1 06 p0913 N84-15933

Use of synchrotron radiation for electron identification at high luminosity 06 p0913 N84-15935

Operation of a high-P/sub T spectrometer arm at 10/sup 33 cm-2 sec-1 with praticle identification
06 p0913 N84-15937

Detecting heavy quark jets 06 p0914 N84-15939

Gas phase spectroscopy near the carbon K-edge
[DE84-002876] 07 p0971 N84-16294

Investigation of the paramagnetic phase of BCC iron using polarized neutron scattering
[DE84-002857] 07 p0974 N84-16315

Initiation and propagation of stress-corrosion cracking of Alloy 600 in high-temperature water
[DE84-000623] 07 p0975 N84-16316

Electrochemical kinetics in stress-corrosion cracks
[DE84-002855] 07 p0976 N84-16323

High accuracy gaseous X-ray detectors
[DE84-003677] 07 p1008 N84-16538

Some comments on the design of electron storage rings for free electron lasers
[DE84-002869] 07 p1010 N84-16553

Semiconductor drift chamber: An application of a novel charge transport scheme
[DE84-002875] 07 p1082 N84-17038

Mean field theory of the linear sigma-model: Chiral solitons
[DE84-002864] 08 p1229 N84-18034

Low energy neutrino physics
[DE84-002856] 08 p1230 N84-18037

Storage ring design for X-ray lithography
[DE84-002859] 09 p1390 N84-19079

Detection and performance of defects in aluminum coated steels
[DE84-004175] 10 p1461 N84-19545

X-ray holographic microscopy experiments at the Brookhaven synchrotron light source
[DE84-004289] 10 p1499 N84-19796

Generation of intense coherent soft X-ray with electron microbunches induced and frozen by lasers
[DE84-005361] 10 p1501 N84-19811

An analysis of concepts for controlling atmospheric carbon dioxide
[DE84-004203] 10 p1532 N84-20033

Characteristics of wind direction meander during onshore flow at a coastal site
[DE84-004178] 11 p1688 N84-21007

Proceedings of the Conference on High Temperature Solid Oxide electrolytes. Volume 1: Anion conductors
[BNL-51728-VOL-1] 11 p1738 N84-21342

Fusion and high temperature electrolysis
11 p1740 N84-21350

Use of single point contact electrodes to understand porous electrode behavior on solid electrolytes
11 p1742 N84-21365

Proceedings of the Conference on High Temperature Solid Oxide Electrolytes. Volume 2: Cation conductors
[BNL-51728-VOL-2] 11 p1742 N84-21368

Re-examination of beta-alumina doped with chromium using photoacoustic spectroscopy
11 p1742 N84-21369

Type II successful supernovae, the anatomy of shocks: Neutrino emission and the adiabatic index
[DE84-002858] 11 p1757 N84-21472

Zinc electrode morphology in acid electrolytes
[DE84-007184] 14 p2124 N84-23728

Prediction of long term crevice corrosion and hydrogen embrittlement behavior of ASTM grade-12 titanium
[DE84-002575] 14 p2128 N84-23759

Superconducting power transmission system development. Cable insulation development
[DE84-007805] 14 p2142 N84-23847

Ionization of polarized hydrogen atoms
[DE84-007378] 14 p2223 N84-24340

Low temperature (150 to 250(0)C) deposition of n(+) and p(+) microcrystalline silicon for VLSI device contacts
[DE84-006474] 14 p2243 N84-24470

Determining of surface oxide compositions on Alloy 600 using Rutherford backscattering
[DE84-002672] 15 p2299 N84-24797

Collective instabilities and high-gain regime free electron laser
[DE84-008172] 15 p2340 N84-25045

Strategies for solar energy conversion utilizing metal complexes
[DE84-008184] 15 p2364 N84-25187

Dynamics of itinerant ferromagnets above T sub c
[DE84-002695] 15 p2402 N84-25420

Generation of intense polarized beams by selective neutralization of negative ions
[DE84-007377] 15 p2405 N84-25437

Supersymmetric statistical models on the lattice
[DE84-006758] 15 p2414 N84-25494

Reassessment of the OHZ process for the thermochemical decomposition of water
[DE84-007806] 18 p2812 N84-27849

Possibilities for X-ray holography using synchrotron radiation
[DE84-010390] 18 p2844 N84-28063

Brookhaven National Laboratory Coastal Meteorology Program, 1972-1983
[DE84-009584] 18 p2891 N84-28349

Magnetic excitations in transition-metal ferromagnets. Recent progress and future prospects on neutron scattering experiments
[DE84-008808] 18 p2928 N84-28566

Aperture studies of the BNL colliding beam accelerator with reduced superperiodicity
[DE84-002854] 19 p3103 N84-29713

Photovoltaic-electrolyzer system transient simulation results
[DE84-010217] 20 p3149 N84-29995

Potential-determining reactions during pitting corrosion of aluminum
[DE84-007695] 20 p3155 N84-30031

Intergranular failures of Alloy 600 in high temperature caustic environments
[DE84-010890] 20 p3155 N84-30032

Mechanisms of intergranular failures in Alloy 600 in high temperature environments
[DE84-010514] 20 p3155 N84-30033

The photoelectrochemistry of conducting polymers
[DE84-010889] 20 p3164 N84-30093

Chemical-hydrogen energy systems
[DE84-012876] 20 p3167 N84-30112

Secondary alkaline batteries
[DE84-010963] 20 p3179 N84-30191

Rechargeable zinc batteries
[DE84-008947] 20 p3179 N84-30192

Effect of charging methods on battery electrodes
[DE84-010287] 20 p3179 N84-30196

A finite element method for treating nearly one way wave propagation
[DE84-010294] 20 p3290 N84-30889

Nuclear and particle physics aspects of hyperon and antinucleon interactions
[DE84-010793] 20 p3293 N84-30905

Hypernuclear research at the AGS
[DE84-010282] 20 p3294 N84-30915

Monte Carlo simulation of the microcanonical ensemble
[DE84-010880] 20 p3295 N84-30923

Accelerator-based atomic physics experiments with photon and ion beams
[DE84-010789] 20 p3296 N84-30928

Anodic processes and the kinetics of stress-corrosion cracking or corrosion fatigue
[DE84-012911] 21 p3368 N84-31367

Activities at the Brookhaven National Laboratory integrated test bed for advanced hydrogen technology
[DE84-010226] 21 p3374 N84-31409

Water vapor electrolysis: Systems considerations and cost/performance benefits
[DE84-007389] 21 p3374 N84-31410

Rationale for US DOE energy storage program in hydrogen technology
[DE84-010225] 21 p3374 N84-31411

The effect of current density on anode depolarization economics
[DE84-010465] 21 p3392 N84-31524

Urban and local source effects on precipitation chemistry
[DE84-011848] 21 p3436 N84-31803

Discussion of the Ionian and Levantine Seas
[DE84-011562] 21 p3451 N84-31898

Design fabrication and testing of the BNL radio frequency quadrupole accelerator
[DE84-011915] 21 p3494 N84-32145

Future accelerators using micro-fabrication technology
[DE84-002692] 21 p3496 N84-32157

Electroweak interaction parameters
[DE84-012910] 21 p3496 N84-32159

Numerical calculations in quantum field theories
[DE84-010892] 21 p3507 N84-32217

Summary status of advanced water electrolysis and hydrogen storage/transport research and development
[DE84-012908] 22 p3547 N84-32456

Recent developments in thermoluminescence kinetics
[DE84-013226] 22 p3547 N84-32457

A two-fluid instability
[DE84-012899] 22 p3595 N84-32764

The development of methods to predict both the dynamic and the pseudo-static response of secondary structures subjected to seismic excitations
[DE84-010284] 22 p3612 N84-32884

Gamma-ray spectroscopy of hypernuclei
[DE84-013142] 22 p3654 N84-33162

Mechanisms involved in the glow-discharge deposition of doped hydrogenated amorphous silicon
[DE84-013124] 22 p3665 N84-33236

Nucleation and growth of N- and P-type microcrystals in low-temperature glow-discharge deposited silicon films
[DE84-013122] 22 p3667 N84-33246

BROWN BOVERI ELECTRIC, INC., COLMAR, PA.

Development of a solid-state circuit breaker concept
[DE84-009110] 15 p2414 N84-25493

BROWN BOVERI RESEARCH CENTER, BADEN (SWITZERLAND).

Vortex breakdown: A two-stage transition
03 p0325 N84-12124

BROWN, BOVERI UND CIE, A.G., BADEN (SWITZERLAND).

The design of modern Low Pressure (LP) steam turbines 06 p0840 N84-15473

Steam condenser developments
06 p0841 N84-15486

BROWN, BOVERI UND CIE, A.G., MANNHEIM (WEST GERMANY).

Intelligent instruments for process measurement techniques (monitoring of sensors)
[BMFT-FB-T-84-078] 21 p3407 N84-31611

BROWN UNIV., PROVIDENCE, R. I.

Raman studies of CuTCNQ: Resonance Raman spectral observations and calculations for TCNQ ion-radicals
[AD-A130570] 01 p0037 N84-10231

Vibrational spectra of single and mixed alkali pentasilicate glasses
[AD-A130527] 01 p0049 N84-10318

An example of boundary layer in delay equations
[AD-A129144] 01 p0129 N84-10842

Stable equilibria in a scalar parabolic equation with variable diffusion
[AD-A131221] 01 p0134 N84-10877

Optimal control of Markov processes
[AD-A129296] 01 p0136 N84-10894

Thermophysical properties for synthetic fuels
[DE83-016568] 02 p0191 N84-11239
Finite element simulation of viscoelastic flows
02 p0217 N84-11423
A finite element analysis of the upper jet region of a fiber drawing flow field 02 p0218 N84-11425
A study of plastic flow localization and other instability phenomena in rate-sensitive ductile solids
02 p0230 N84-11510
Stressing processes associated with great crustal earthquakes at plate boundaries
02 p0246 N84-11612
Nonparametric estimation by the method of sieves
[AD-A131394] 02 p0284 N84-11863
Diffusive relaxation of stress concentrations at grain boundary cavities in elevated temperature creep
02 p0297 N84-11950
Analysis of nonuniform deformation in ductile single crystals 02 p0297 N84-11951
A pressure-shear experiment for studying the dynamic plastic responses of metals at shear strain rates of 10 to the 5th power s(-1) 03 p0387 N84-12519
Plastic deformations of a portable frame under short pulse loading on one column by an approximate method including effects of elasticity and plastic rate sensitivity
03 p0387 N84-12521
Hadron-hadron collider group
[DE83-010704] 03 p0437 N84-12865
Introduction to dynamic bifurcation
[AD-A133252] 06 p0901 N84-15846
Two-dimensional supersonic expansion flows on walls with nonequilibrium condensation
08 p1096 N84-17125
An experimental and numerical investigation of pressure-shear waves in 6061-T6 aluminum and alpha-titanium 08 p1129 N84-17345
Microstructural and mechanical aspects of fatigue crack initiation and growth in a 2048 aluminum alloy
08 p1130 N84-17347
Homogeneity and magnetic susceptibility in some substituted cadmium spinels
[AD-A135297] 08 p1131 N84-17357
Estimation techniques for transport equations
[AD-A135092] 08 p1218 N84-17945
Estimation of temporally and spatially varying coefficients in models for insect dispersal
[AD-A135093] 08 p1218 N84-17946
Smoothness of bounded solutions of nonlinear evolution equations
[AD-A135294] 08 p1219 N84-17958
Photochemical generation of the optoacoustic effect
[DE84-003712] 08 p1228 N84-18023
Elementary excitations in semiconductor superlattices structures 08 p1234 N84-18065
Control and identification of time varying systems
[AD-A135223] 08 p1238 N84-18091
Basic research on macromolecular dynamics
[PB84-123538] 09 p1289 N84-18417
Orbit connections in a parabolic equation
[AD-A135986] 09 p1378 N84-18999
Aspects of pattern theory
[AD-A136506] 09 p1381 N84-19022
Global temperature patterns 6000 years ago
[DE84-004209] 10 p1537 N84-20072
Monte Carlo calculations of elementary particle properties 10 p1561 N84-20229
Fatigue resistance and microstructure of experimental dual phase Fe/2Si/0.1C steel
[DE84-004314] 11 p1635 N84-20692
A study of heterojunction solar cells based on n-CdS and several P-type semiconductors
11 p1672 N84-20914
Chemical reactions and molecular aggregation in cryogenic whole air sample matrices
[AD-A137879] 11 p1682 N84-20977
Venus: Global radar properties in a geological context
11 p1754 N84-21453
Significant achievements in the planetary geology program
[NASA-CR-3782] 11 p1758 N84-21474
Creep and creep recovery of 2618-T61 aluminum under variable temperature
[AD-A137976] 12 p1797 N84-21723
Analysis of shear strain localization in thermal visco-plastic materials
[AD-A138186] 12 p1798 N84-21727
Two-phase fluid flow through nozzles and abrupt enlargements
[DE84-006991] 12 p1816 N84-21841
Venus: The nature of the surface from Venera panoramas 13 p2077 N84-23459
Geology of Maxwell Montes, Venus
13 p2077 N84-23460
Venus: Global distribution of Pioneer-Venus radar roughness and reflectivity and global correlation of altimetry, roughness and reflectivity observations
13 p2077 N84-23461
A saturable interferometer theory of absorptive optical bistability 14 p2238 N84-24435
Prediction of creep and creep relaxation of AL 2618 under variable multiaxial stresses
[AD-A139950] 15 p2297 N84-24788
Stratigraphy of the crater Copernicus
15 p2426 N84-25571
A plate impact experiment for studying crack initiation at loading rates K(I) approximately 10(8) MPa m/s
[AD-P003103] 16 p2466 N84-25808
Some theoretical results on the dependence of dynamic stress intensity factor on crack tip speed
[AD-P003109] 16 p2467 N84-25814
Approximating multiple ITO integrals with Band limited processes
[AD-A140417] 16 p2550 N84-26364
Initiation and propagation of shear bands in antiplane shear deformation
[AD-A140741] 17 p2624 N84-26794
Automatic control of a visual physiology experiment, using MINC
[AD-A140607] 17 p2745 N84-27431
Materials Research Laboratory report
[AD-A140898] 17 p2769 N84-27580
Abelian integrals and bifurcation theory
[AD-A142198] 19 p3089 N84-29613
Research in the areas of stochastic control under partial observations, nonlinear filtering, large deviations for nearly deterministic processes, and transition and invariant densities for nearly deterministic diffusions
[AD-A142191] 19 p3115 N84-29791
Elastic-plastic deformation of pulse-loaded structures
[AD-A142350] 20 p3202 N84-30339
Comparison of methods for calculating energy release rates
[DE84-012231] 20 p3204 N84-30350
An investigation of single-substance horizontal two-phase flow
[DE84-012292] 21 p3403 N84-31587
Correlation of afferent activity and binocular receptive field properties
[AD-A143087] 21 p3457 N84-31938
Symbolic dynamics and nonlinear semiflows
[AD-A143487] 22 p3646 N84-33117
Combined macroscopic and microscopic approach to the fracture of metals
[DE84-014670] 23 p3719 N84-33577
Analysis, modeling and control of dynamical systems
[AD-A143937] 23 p3818 N84-34209
Application of surface magnetoplasmons on semiconductor substrates
[AD-A143767] 23 p3830 N84-34293

BROWN (W. S.), INC., SALT LAKE CITY, UTAH.
Commercialization of opportunities for materials processing in low gravity
[NASA-CR-170953] 06 p0793 N84-15165

BRUEEL AND KJAER INSTRUMENTS, INC., GAITHERSBURG, MD.
Industrial noise control: The past three years
10 p1505 N84-19646

BRUKER ANALYTISCHE MESSTECHNIK G.M.B.H., RHEINSTETTEN (WEST GERMANY).
Development and construction of an apparatus based on the principle of multidimensional nuclear magnetic resonance for the formation of images of organs and parts of the body
[BMFT-FB-T-83-102] 02 p0266 N84-11752

BRUNEL TECHNICAL COLL., BRISTOL (ENGLAND).
Distortion of a narrow radio beam in a convective medium 15 p2326 N84-24966

BRUSSELS UNIV. (BELGIUM).
Absorptive optical bistability in a bad cavity
14 p2240 N84-24448
Current methods of evaluation of bone mineral content 23 p3807 N84-34142
Urinary excretion of hydroxylysyl glycosides as an index of bone metabolism 23 p3808 N84-34143
Electromechanical hypothesis of bone demineralization in weightlessness 23 p3808 N84-34149
Animal models of disuse osteoporosis
23 p3809 N84-34153

BRYANT (PAUL J.), PRAIRIE VILLAGE, KANS.
Optimization of wind turbine design for SWECS
[DE84-009759] 19 p3051 N84-29363

BUCKNELL UNIV., LEWISBURG, PA.
Understanding picture-text instructions
[AD-A139746] 15 p2382 N84-25287

BUILDING RESEARCH INST., TOKYO (JAPAN).
Proceedings of the 6th Joint Panel Meeting: UJNR Panel on Fire Research and Safety 04 p0510 N84-13341
Building systems and smoke control
04 p0511 N84-13347
Present state of research in Japan on toxicities of gases during fire 04 p0511 N84-13349
A study on sound guidance for evacuation: Effect of megaphoned evacuation guidance in smoke
04 p0512 N84-13356
Thermal instability in transient compartment fire: An approach to characterize flashover and estimate its mechanisms 04 p0513 N84-13366
Similarity analysis of the flow characteristics in diffusion flames 04 p0513 N84-13367
US-Japan cooperative research on evaluation of toxicity 04 p0514 N84-13375
Proposed plan for joint research program between Japan, the USA and Canada concerning gas toxicity in fires 04 p0514 N84-13378
On smoke control experiments
04 p0514 N84-13379

BUNDESAMT FUER WEHRTECHNIK UND BESCHAFFUNG, KOBLENZ (WEST GERMANY).
Guidelines and criteria for the functional integration of avionic systems with crew members in command
06 p0770 N84-15044

BUNDESANSTALT FUER FLUGSICHERUNG, FRANKFURT AM MAIN (WEST GERMANY).
Activities report on air traffic control in the Federal Republic of Germany 09 p1253 N84-18182
Notice for airmen, part 2. Index of approved manufacturing operations for aeronautical appliances according to paragraph 18 of test procedures for aeronautical appliances
[NFL-II-38/84] 24 p3847 N84-34394
Notice for airmen, part 2. Index of approved aeronautical engineering operations and of independent inspectors according to paragraph 33 of test procedures for aeronautical appliances
[NFL-II-39/84] 24 p3847 N84-34395

BUNDESANSTALT FUER GEOWISSENSCHAFTEN UND ROHSTOFFE, HANNOVER (WEST GERMANY).
On the genesis of hydrocarbons in the German Alpine foreland
[BMFT-FB-T-83-103] 02 p0250 N84-11637
Further development of magnetotelluric methods for the exploration of the pre-Zechstein by improvement of the data processing codes, data acquisition and interpretation techniques
[BMFT-FB-T-83-190] 07 p1023 N84-16638

BUNDESANSTALT FUER MATERIALPRUEFUNG, BERLIN (WEST GERMANY).
Multitechnique studies on fretting fatigue: Influence of surface treatment
[AD-A140812] 17 p2624 N84-26796

BUNDESMINISTERIUM DER VERTEIDIGUNG, BONN (WEST GERMANY).
Auxiliary power requirements: Their role in aircraft performance 03 p0334 N84-12169
Evaluation and control of laser hazards
22 p3632 N84-33018

BUNDESMINISTERIUM DES INNERN, BONN (WEST GERMANY).
Heat Transfer Coefficient in Containments (HTCC): A heat transfer model for gas-vapor mixtures
[BMI-1983-022] 16 p2485 N84-25939

BUNDESMINISTERIUM FUER FORSCHUNG UND TECHNOLOGIE, BONN (WEST GERMANY).
Fourth outer space program of the German Federal Republic
[ISBN-3-88135-111-6] 01 p0017 N84-10110
Digital sound service for direct broadcasting satellites
08 p1146 N84-17462
The use of space laboratories for materials investigations, process engineering, and scientific purposes 20 p3133 N84-29895
Windpower utilization from the point of view of the Federal Ministry of Research and Technology
23 p3785 N84-34006

BUNDESWEHR MUNICH UNIV., NEUBIBERG (WEST GERMANY).
Interaction of antennas with masts under special consideration of the sensitivity and nonlinear effects in ship borne receiving systems 03 p0364 N84-12371

BUNKER-RAMO CORP., WESTLAKE VILLAGE, CALIF.
Symbology verification study
[AD-A131328] 02 p0177 N84-11162

BUREAU DES LONGITUDES, PARIS (FRANCE).
New ephemerides for the Galilean Satellites of Jupiter calculated from Sampson-Lieske theory
19 p3119 N84-29825
The S-9 ephemeride of Phoebe with an analysis pf the observation 19 p3119 N84-29826
Analytical theory of the motion of the Galilean satellites of Jupiter: The first approximation
19 p3120 N84-29834
Observations of mutual phenomena of the Galilean satellites of Jupiter in 1979-1980
19 p3121 N84-29835

BUREAU OF LAND MANAGEMENT, DENVER, COLO.
The use of remote sensing for soils investigations on BLM lands
[PB84-132075] 10 p1527 N84-20005
BUREAU OF MINERAL RESOURCES, GEOLOGY AND GEOPHYSICS, CANBERRA (AUSTRALIA).
Yearbook of the Bureau of Mineral Resources, Geology and Geophysics, Canberra, 1 July 1982 - 30 June 1983
[BMR-83] 19 p3037 N84-29266
Fossil fuels 19 p3037 N84-29267
Minerals 19 p3038 N84-29268
Groundwater 19 p3038 N84-29269
Earthquake hazards 19 p3038 N84-29270
National and international geoscience maps 19 p3038 N84-29271
Overseas programs 19 p3038 N84-29272
Petroleum and minerals resource assessment 19 p3038 N84-29273
Guide to the geology of Australia
[BMR-BULL-181] 23 p3797 N84-34076
Oligocene and Miocene larger foraminiferida from Australia and New Zealand
[BMR-BULL-188] 23 p3797 N84-34077
Tertiary foraminifera and age of sediments, Ok Tedi-Wabag, Papua New Guinea
[BMR-BULL-216] 23 p3797 N84-34078
BUREAU OF MINES, ALBANY, OREG.
Ball-on-block impact-spalling wear test and results on several iron alloys
[PB84-115833] 09 p1319 N84-18615
Sulfidation- and oxidation-resistant ferritic stainless steel containing aluminum
[PB84-189521] 20 p3165 N84-30101
Low-chromium heat-resisting ferritic alloys strengthened by the Chi Phase
[PB84-199041] 22 p3557 N84-32524
BUREAU OF MINES, AMARILLO, TEX.
Analyzer for determining helium-4 in the part-per-billion range
[PB84-189554] 20 p3191 N84-30272
BUREAU OF MINES, AVONDALE, MD.
Acidic deposition and the corrosion and deterioration of materials in the atmosphere: A bibliography, 1880 - 1982
[PB83-236091] 01 p0047 N84-10302
Updated process flowsheets for manganese nodule processing
[PB83-226340] 01 p0047 N84-10303
Structure and porosity of electrodeposited platinum: Evaluation of 4 plating methods
[PB84-152933] 14 p2129 N84-23763
BUREAU OF MINES, BARTLESVILLE, OKLA.
Aviation fuels, 1983
[DE84-011823] 20 p3166 N84-30106
BUREAU OF MINES, MINNEAPOLIS, MINN.
Battery safety procedures for surface-mining equipment
[LC-84-600162] 23 p3741 N84-33713
BUREAU OF MINES, PITTSBURGH, PA.
Correlation of LANDSAT and air photo linears with roof control problems and geologic features
[PB83-250852] 04 p0555 N84-13656
BUREAU OF MINES, ROLLA, MO.
Digital instrumentation package or an improved torsion pendulum
[PB83-240424] 04 p0539 N84-13547
Copper-manganese-base silverless brazing systems
[PB83-250100] 04 p0545 N84-13593
Chemical vapor deposition of group IVB, VB, and VIB elements with nonmetals. A literature review
[PB83-225409] 06 p0802 N84-15228
Generation, collection, and analysis of welding fumes
[PB84-116607] 09 p1326 N84-18663
BUREAU OF MINES, UNIVERSITY, ALA.
Corrosion resistance of ceramic materials to hydrochloric acid
[PB84-131333] 10 p1469 N84-19594
Corrosion resistance of selected ceramic materials to nitric acid
[PB84-178870] 20 p3164 N84-30098
Magnesia refractories produced from chemically modified periclase grains and Mg(OH)2 slurries
[PB84-178979] 20 p3165 N84-30099
Ground penetrating radar: A review of its application in the mining industry, information circular 1984
[PB84-178292] 20 p3176 N84-30172
BUREAU OF MINES, WASHINGTON, D. C.
Platinum-group metals
[PB83-239152] 02 p0198 N84-11291
Chromium
[PB84-100882] 06 p1136 N84-17385
Panel 2B: Engineering-technology assessment, hard minerals 18 p2866 N84-28197
Lead 19 p2992 N84-28959
Fluorspar 19 p3053 N84-29375
New developments in materials recycling by the US Bureau of Mines 23 p3704 N84-33480
BUREAU OF RECLAMATION, BILLINGS, MONT.
Resource and potential reclamation evaluation: Northeast Montana investigations
[PB84-112390] 09 p1337 N84-18734
Resource and potential reclamation evaluation: Northeast Montana investigations
[PB84-112408] 09 p1338 N84-18735
BUREAU OF RECLAMATION, DENVER, COLO.
Concrete tensile strength study
[PB84-101021] 08 p1172 N84-17637
Analysis and classification of mesoscale cloud and precipitation systems
[PB84-138999] 10 p1542 N84-20104
Synthetic voice: Power system enunciation speech synthesis system
[PB84-151646] 14 p2141 N84-23838
Project Skywater data inventory, 1982-1983 SCPP (Sierra Cooperative Pilot Project) data inventory
[PB84-151489] 14 p2180 N84-24058
BURKES (T. R.), INC., LUBBOCK, TEX.
Solid state copper vapor laser modulator
[DE83-015837] 03 p0380 N84-12475
BURT, HILL, KOSAR, RITTLEMAN, AND ASSOCIATES, BUTLER, PA.
Survey of design tools for passive and hybrid low energy buildings 16 p2516 N84-26147
BURT, HILL, KOSAR, RITTLEMAN, AND ASSOCIATES, WASHINGTON, D.C.
The DOE passive solar commercial buildings program: Preliminary results of performance evaluation 16 p2515 N84-26141
BURTEK CORP., TULSA, OKLA.
Logistic support: A computer manufacturer's viewpoint
[AD-P003496] 21 p3514 N84-32262
BUSBY (R. FRANK) ASSOCIATES, ARLINGTON, VA.
Potential inspection, maintenance and repair techniques for the OTEC (Ocean Thermal Energy Conversion) systems
[PB83-221374] 01 p0060 N84-10397
BUSINESS AND TECHNOLOGICAL SYSTEMS, INC., SEABROOK, MD.
Potential utility of future satellite magnetic field data
[NASA-CR-175230] 15 p2279 N84-24691
A compilation of mineral occurrences and the relationship of occurrences to structural elements of the Kentucky and Tennessee region
[NASA-CR-175240] 18 p2878 N84-28275
BUTLER ANALYSES, TOWSON, MD.
Design spectrum analysis in NASTRAN 22 p3609 N84-32870
Seismic analysis capability in NASTRAN 22 p3610 N84-32871
BUTLER UNIV., INDIANAPOLIS, IND.
Assessment of temporal dynamics of selected terrestrial carbon pools
[DE84-009850] 19 p3059 N84-29410

C

CABOT CORP., KOKOMO, IND.
Development of improved low-strain creep strength in Cabot alloy R-41 sheet
[NASA-CR-172392] 21 p3365 N84-31346
Solidification study of some Ni- and Co-base alloys 24 p3882 N84-34596
CACI, INC., ARLINGTON, VA.
Results of demonstration of JRIM prototype data base
[AD-A139772] 15 p2418 N84-25518
CAIRO UNIV. (EGYPT).
Inelastic deformation of metals and structures under dynamic and quasi-static cyclic loading
[AD-A136022] 09 p1332 N84-18700
CALGARY UNIV. (ALBERTA).
The response of nonlinear structures to random excitation 21 p3418 N84-31678
CALHOUN COMMUNITY COLL., DECATUR, ALA.
Evaluation of the separability of monodisperse polystyrene latex microspheres in a continuous flow electrophoresis system 06 p0932 N84-16057
CALIFORNIA INST. OF TECH., PASADENA.
Linear theory of pressure oscillations in liquid fueled Ramjet engines
[AD-A130882] 01 p0011 N84-10071
Linear theory of pressure oscillations in liquid-fueled ramjet engines
[AD-A131610] 01 p0012 N84-10075
The quantum dynamics of chemical reactions
[AD-A130160] 01 p0156 N84-11026
Waveform inversion of mantle Love waves: The born seismogram approach
[NASA-CR-174483] 02 p0248 N84-11622
Chemically reacting turbulent shear layers
[AD-A131553] 02 p0295 N84-11931
The Owens Valley frequency-agile interferometer
[AD-A131825] 03 p0377 N84-12453
The relative abundances of Sn, Te, Xe, Ba and Ce
[NASA-CR-174599] 03 p0465 N84-13064
Temporal variations of the anomalous oxygen component 03 p0471 N84-13099
Voyager measurements of the energy spectrum, charge composition, and long term temporal variations of the anomalous components in 1977-1982 03 p0471 N84-13100
Experiments on mixing and combustion with low heat release in a turbulent shear flow 04 p0531 N84-13489
Analysis and control of quasi distributed parameter systems 04 p0547 N84-13603
The propagation and arrest of an edge crack in an elastic half-space under conditions of anti-plane shear: Analytical and numerical results 04 p0547 N84-13604
The emergence and propagation of a phase boundary in an elastic bar
[AD-A132275] 04 p0549 N84-13616
Impact cratering and spall failure at gabbro
[NASA-CR-174618] 04 p0562 N84-13704
X-ray and backscattering analysis of ion implantation phenomena in GaAs and related compounds
[AD-A132429] 04 p0612 N84-14038
A study of A- and B-type stars in the southern galactic halo 04 p0618 N84-14077
Sounding rocket XUV observations of Capella 04 p0618 N84-14078
Eclipse mapping of accretion disks in cataclysmic binaries 04 p0618 N84-14080
Radiative transfer and photochemistry in the upper atmosphere of Jupiter 04 p0621 N84-14095
Mechanisms of exciting pressure oscillations in ramjet engines
[AD-A133977] 05 p0631 N84-14150
Chemical reactions in turbulent mixing flows, revision
[AD-A133874] 05 p0647 N84-14258
Parametric study of optically pumped far-infrared waveguide lasers, part 1. Theory and experiment of folded Fabry-Perot quasi-optical ring resonator diplexer 05 p0687 N84-14515
Forces on a whirling centrifugal pump-impeller 05 p0687 N84-14516
The emergence and propagation of a phase boundary in an elastic bar 05 p0690 N84-14535
Space-time algorithms: Semantics and Methodology 05 p0721 N84-14726
Impact and explosion crater ejecta, fragment size, and velocity
[NASA-CR-174578] 05 p0733 N84-14813
Microwave dynamics of quasiparticles and critical fields in superconducting films 05 p0756 N84-14961
Visible and infrared studies of ataclysmic variable stars 05 p0762 N84-14997
Nuclear structure of quasars at 329 megaHertz 05 p0763 N84-15002
The structure and evolution of interacting binary galaxies 05 p0763 N84-15004
Carbon monoxide in the atmospheres of the terrestrial planets 05 p0764 N84-15011
Non-equilibrium X-ray emission from young supernova remnants 05 p0765 N84-15019
The effect of flow oscillations on cavity drag, and a technique for their control 06 p0780 N84-15109
Optimal low thrust, three burn orbit transfers with large plane changes 06 p0793 N84-15166
Nonlinear acoustics instabilities in combustion chambers 06 p0802 N84-15230
EXAFS studies of the metallic glass La80Ga20
[DE84-002022] 06 p0811 N84-15278
Interpretation of near-source ground motion and implications 06 p0876 N84-15697
Constraints on the Earth's anelastic and aspherical structure from antipodal surface waves 06 p0876 N84-15700
Thermal tides in the atmosphere of Venus 06 p0876 N84-15702
Lateral heterogeneity and azimuthal anistropy of the upper mantle: Love and Rayleigh waves 100-250 sec
[NASA-CR-174619] 06 p0878 N84-15710
X-ray observations of cataclysmic variables 06 p0936 N84-16084
Near infrared studies of reflection nebulae 06 p0937 N84-16086
Voyager observations of Saturn's rings. 1: The eccentric rings at 1.29, 1.45, 1.95 and 227 Rs 06 p0937 N84-16087
Part 1: Physical studies of distant comets. Part 2: Morphologies of planetary nebulae 06 p0937 N84-16091
Acousto-optic/CCD real-time SAR data processor 07 p0989 N84-16410

3-5 semiconductor lasers and detectors
07 p1009 N84-16541
FeO and H-2O and the homogeneous accretion of the earth
[NASA-CR-173242] 07 p1028 N84-16664
Shock compaction of molybdenum powder
[NASA-CR-173154] 08 p1133 N84-17369
Interaction of weak shock waves and discrete gas inhomogeneities 08 p1155 N84-17517
Shock wave properties of anorthosite and gabbro
[NASA-CR-173309] 08 p1155 N84-17521
Long wavelength InGaAsP/InP lasers and optoelectronic integration 08 p1163 N84-17573
A search for gravitational radiation from PSR 1937 + 214 08 p1185 N84-17717
Teleseismic array analysis of upper mantle compressional velocity structure
[NASA-CR-173285] 08 p1185 N84-17723
Surface wave tomography
[NASA-CR-175373] 08 p1188 N84-17728
Observations of emission in bright, low redshift quasars
[NASA-CR-175376] 08 p1242 N84-18122
The physical nature of the continuum in active galaxies 08 p1243 N84-18128
Turbulence and mass motion in galactic molecular clouds 08 p1244 N84-18129
The isotopic composition of energetic particles emitted from a large solar flare 08 p1245 N84-18140
Shock temperatures in anorthite glass
[NASA-CR-173364] 09 p1287 N84-18401
Acousto-optic processing of 2-d signals using temporal and spatial integration
[AD-A136086] 09 p1390 N84-19078
Concurrent algorithms as space-time recursion equations 09 p1400 N84-19143
A formal derivation of array implementations of FFT algorithms 09 p1400 N84-19144
Consequences of a chromospheric temperature gradient on the width of H Alpha in late-type giants
[NASA-CR-173359] 09 p1415 N84-19260
The propagation and arrest of an edge crack in an elastic half-space under conditions of anti-plane shear: Analytical and numerical results
[AD-A137275] 10 p1517 N84-19930
Steady viscous flow past a circular cylinder
10 p1560 N84-20223
On the theory of electron, h-atom and proton transfers
[AD-A137511] 10 p1577 N84-20330
Dynamic signatures of quiet sun magnetic fields
[NASA-CR-173361] 10 p1597 N84-20464
The upper mantle beneath the Cascade Range: A comparison with the Gulf of California
[NASA-CR-175428] 11 p1681 N84-20970
Analysis of flares observed during the solar maximum year
[AD-A137922] 11 p1759 N84-21481
Fundamental processes occurring at electrodes
[AD-A138038] 12 p1791 N84-21679
Diffusion barriers 12 p1839 N84-21987
Real-time synthetic aperture radar processing
12 p1906 N84-22416
Superlattices and semiconductor/semiconductor interfaces
[AD-A138149] 12 p1913 N84-22465
Numerical analysis of an unsteady shock in an inlet diffuser 13 p1951 N84-22686
Supercritical solvent coal extraction
[NASA-CASE-NPO-15210-1] 13 p1955 N84-22709
Shock consolidation of powders: Theory and experiment
[DE84-007273] 13 p1961 N84-22741
Absorbable-susceptor joining of ceramic surfaces
[NASA-CASE-NPO-15640-1] 13 p1962 N84-22748
Effect of pressure on the mechanical properties of polymers, part 1
[DE84-006311] 13 p1965 N84-22765
Spread spectrum communication in jamming
13 p1976 N84-22827
Radiative cooler
[NASA-CASE-NPO-15465-1] 13 p1988 N84-22903
Method and apparatus for precision control of radiometer
[NASA-CASE-NPO-15398-1] 13 p1992 N84-22931
Spectrophone stabilized laser with line center offset frequency control
[NASA-CASE-NPO-15516-1] 13 p1994 N84-22943
Wind and solar powered turbine
[NASA-CASE-NPO-15496-1] 13 p2007 N84-23018
Photochemical modeling of the Earth's stratosphere
13 p2013 N84-23058
Neotectonics of the north frontal fault system of the San Bernardino Mountains, southern California: Cajon Pass to Lucerne Valley 13 p2013 N84-23061
Acoustic rotation control
[NASA-CASE-NPO-15689-1] 13 p2039 N84-23233
Programmable scan/read circuitry for charge coupled device imaging detectors
[NASA-CASE-NPO-15345-1] 13 p2042 N84-23247
A survey of halo RR Lyrae stars
13 p2069 N84-23409
Topography on Ganymede derived from photoclinometry 13 p2074 N84-23442
Geology of Dione 13 p2074 N84-23444
Effect of pressure on the mechanical properties of polymers, part 3
[DE84-006653] 14 p2130 N84-23770
Bistable injection lasers 14 p2241 N84-24455
Ion implanted GaAs IC. Process technology
[AD-A139348] 14 p2242 N84-24461
Submicron systems architecture
[AD-A139819] 15 p2270 N84-24630
Submicron systems architecture
[AD-A139844] 15 p2388 N84-25327
Workshop on Dynamic Fracture held at Pasadena, California on 17-18 February 1983
[AD-A140194] 16 p2466 N84-25806
Dynamic crack growth criteria in structural metals
[AD-P003107] 16 p2467 N84-25812
Processes controlling the dynamic fracture of brittle solids
[AD-P003108] 16 p2467 N84-25813
Dynamic analysis of fluid-structure systems
[PB84-162916] 16 p2478 N84-25887
An empirical model for vortex-induced vibrations
[PB84-161157] 16 p2493 N84-25998
Element-by-element solution procedures for nonlinear transient heat conduction analysis
16 p2494 N84-26000
A sensitive optical pyrometer for shock-temperature measurements
[NASA-CR-173602] 16 p2495 N84-26011
Anisotropic models of the upper mantle
[NASA-CR-173549] 16 p2521 N84-26182
Lower mantle heterogeneity, dynamic topography and the geoid
[NASA-CR-173621] 16 p2521 N84-26184
Black-hole electrodynamics 16 p2578 N84-26540
A critical assessment of viscous models of trench topography and corner flow
[NASA-CR-173648] 17 p2667 N84-27005
Elemental advances of ultraheavy cosmic rays
[NASA-CR-173650] 17 p2781 N84-27658
Orbiting dynamic compression laboratory
[NASA-CR-173704] 18 p2798 N84-27755
Seismic tomography of the Earth's interior
18 p2879 N84-28278
Shock vaporization and the accretion of the icy satellites of Jupiter and Saturn
[NASA-CR-173767] 19 p3122 N84-29843
Mechanical properties of a shock consolidated steel powder
[DE84-003573] 20 p3158 N84-30056
Natural convection flows and associated heat transfer processes in room fires
[PB84-171172] 20 p3172 N84-30140
Synthesis of offset dual shaped subreflector antennas for control of Cassegrain aperture distributions
[AD-P003517] 21 p3385 N84-31485
CALTECH-DOE program on numerical analysis, computing and fundamental studies of motion, energy and mass transfer in fluids
[DE84-008935] 21 p3401 N84-31572
Seismicity and crustal structure studies of southern California: Tectonic implications from improved earthquake locations 21 p3439 N84-31819
Finite-amplitude interfacial waves
[AD-A142767] 21 p3444 N84-31849
Electromagnetic radiation and scattering in a plasma with azimuthal biasing field 21 p3500 N84-32180
Science support for the Earth radiation budget sensor on the Nimbus-7 spacecraft
[NASA-CR-175251] 22 p3622 N84-32948
Ultraviolet response of film candidates for the solar optical telescope photometric filtergraph
[NASA-CR-175254] 22 p3656 N84-33178
Large structure in the far wakes of two-dimensional bluff bodies
[AD-A143642] 23 p3747 N84-33751
A simple DWBA (Franck-Condon) treatment of H-atom transfers between two heavy particles
[AD-A143867] 23 p3822 N84-34236
Research in particles and fields
[NASA-CR-173928] 23 p3845 N84-34392
The effects of curvature on turbulent mixing layers
[AD-A144250] 24 p3900 N84-34697

CALIFORNIA POLYTECHNIC STATE UNIV., SAN LUIS OBISPO.

A preliminary investigation of the drag and ventilation characteristics of livestock haulers
[NASA-CR-170408] 05 p0761 N84-14990
Quenchings and outbursts of extragalactic radio sources: Nine years of 3.3-mm measurements and comparisons with centimeter-wave variations
[AD-A138233] 13 p2092 N84-23550

CALIFORNIA STATE DEPT. OF WATER RESOURCES, SACRAMENTO.

Agricultural waste water reverse osmosis pretreatment
[PB84-153543] 17 p2725 N84-27347

CALIFORNIA STATE POLYTECHNIC UNIV., POMONA.

Solar photochemical process engineering for production of fuels and chemicals
[NASA-CR-173910] 22 p3617 N84-32917

CALIFORNIA STATE UNIV., FRESNO.

Stochastic simulation of creep behavior
15 p2316 N84-24899

CALIFORNIA STATE UNIV., HAYWARD.

Incomplete-Cholesky factorization by a matrix-partition algorithm
[DE83-013044] 01 p0134 N84-10879

CALIFORNIA STATE UNIV., NORTHRIDGE.

A study of atmospheric transmission in the wavelength regions of 0.35 micrometers to 14 micrometers
[AD-A135721] 09 p1302 N84-18510
Preliminary study for the modeling of an artificial icing cloud
[AD-A135717] 09 p1349 N84-18813
Review and assessment of USAF and US Army (HISS) artificial icing cloud studies
[AD-A135720] 09 p1349 N84-18814
A study of the magnetic evolution of active regions and its relation to solar flares
[AD-A135085] 09 p1416 N84-19267
Ground-based measurements of solar irradiance variations 17 p2778 N84-27639
Two-dimensional photometry of active regions
17 p2778 N84-27640

CALIFORNIA STATE UNIV., SACRAMENTO.

Performance of passive solar and energy conserving houses in California
[SERI/STR-254-2017] 23 p3790 N84-34039

CALIFORNIA UNIV., BERKELEY.

Experimental and theoretical study of combustion jet ignition
[NASA-CR-168139] 01 p0009 N84-10054
Production of hydrogen by cyanobacteria
[PB83-228379] 01 p0054 N84-10347
Low-input-harmonics power supplies
[AD-A130337] 01 p0071 N84-10462
Accurate computation of divided differences of the exponential function
[AD-A130306] 01 p0132 N84-10865
A numerical analyst's Jordan canonical form
[AD-A130775] 01 p0133 N84-10873
Energy partitioning to product translation in the infrared multiphoton dissociation of diethyl ether
[AD-A131555] 02 p0226 N84-11482
Fatigue behavior of long and short cracks in wrought and powder aluminum alloys
[AD-A131324] 02 p0231 N84-11517
Analysis of the quality of image data acquired by the LANDSAT-4 thematic mapper and multispectral scanners
[E84-10028] 02 p0238 N84-11561
Estimating temperature and moisture regimes in forest and rangeland soils using thermal remote sensing
[PB83-237453] 02 p0241 N84-11577
Seismological studies at the Cerro Prieto field, 1978 - 1982
[DE83-013844] 02 p0250 N84-11633
Measurement and control of free calcium inside small intact cells 02 p0264 N84-11736
Some results on stable rank 2 vector bundles and reflexive sheaves on cubic Rho
02 p0286 N84-11877
A study of the large-scale structure of the plasmasphere using extreme ultraviolet observations
02 p0306 N84-12009
Dynamics of Saturn's rings 02 p0307 N84-12017
X-ray and optical studies of extragalactic X-ray emitters 02 p0308 N84-12024
Combustion jet ignition 03 p0336 N84-12186
System identification of structures with joint rotation
03 p0358 N84-12330
Theoretical and experimental investigation of turbulent premixed flames 03 p0370 N84-12409
Convection in horizontal porous media with different end temperatures 03 p0374 N84-12438
Steady laminar natural convection in open rectangular cavities 03 p0375 N84-12441
Some bifurcation topics in non-linear elastostatics
03 p0387 N84-12524
Mechanical response of fluid-filled poroelastic solids
03 p0387 N84-12525
Environments and search paths for the software tools
[DE83-016607] 03 p0420 N84-12749

Second order partial differential equations of mixed type 03 p0424 N84-12775
Numerical modeling of turbulent flow in a channel [NASA-CR-168278] 04 p0485 N84-13189
Computational models for cyclic plasticity, rate dependence and creep in finite element analysis [PB83-245829] 04 p0505 N84-13308
Diffusion and sorption of cyclohexane vapor in SBS and SBR copolymers [AD-A132397] 04 p0506 N84-13315
Flame heights, flame radiation and flame spread 04 p0513 N84-13371
A general framework for learning curve reliability growth models [AD-A132277] 04 p0546 N84-13596
Analysis of the quality of image data acquired by the LANDSAT-4 Thematic Mapper (TM) of the Black Hills area, South Dakota [E84-10041] 04 p0552 N84-13634
File migration in distributed computer systems 04 p0584 N84-13860
Using simulation to estimate first passage distributions [AD-A132328] 04 p0590 N84-13898
Turbulent flow in passage around a 180 deg bend; an experimental and numerical study [AD-A132845] 05 p0681 N84-14475
On the use of replacements to extend system life [AD-A132878] 05 p0690 N84-14532
Integrated bid estimate systems for contractors 05 p0717 N84-14699
A random walk subject to a randomly changing environment [AD-A133847] 05 p0739 N84-14854
The nature of quasicleavage fracture in tempered 5.5 ni steel after hydrogen charging [AD-A133460] 06 p0806 N84-15252
State-of-the-Art for assessing earthquake hazards in the United States. Report 20: The contribution of directivity focusing to earthquake intensities [AD-A132893] 06 p0878 N84-15716
A survey of network reliability [AD-A133545] 06 p0899 N84-15835
Production networks: A dynamic model of production [AD-A133571] 06 p0933 N84-16065
Studies of highly variable galactic X-ray sources with HEAO-1 [NASA-CR-170941] 06 p0941 N84-16112
A study of the atmosphere and ionosphere using satellite observations of 300-1400 Ang airglow [NASA-CR-173146] 07 p1028 N84-16663
A computer program for reliability evaluation of large-scale undirected networks via polygon-to-chain reductions [AD-A134190] 07 p1054 N84-16826
The use of refined error bound when updating eigenvalues of tridiagonals [AD-A134163] 07 p1061 N84-16879
Eigenvector matrices of symmetric tridiagonals [AD-A134172] 07 p1061 N84-16880
High resolution X- and gamma-ray spectroscopy of solar flares [NASA-CR-173150] 07 p1092 N84-17103
Crossed molecular beam studies of the reactions of oxygen and fluorine atoms [AD-A135415] 08 p1124 N84-17309
Fire propagation in concurrent flows [PB84-100155] 08 p1127 N84-17326
VLSI research [AD-A134628] 08 p1151 N84-17491
Nonlinear geometric, material and time dependent analysis of reinforced concrete shells with edge beams [PB84-104454] 08 p1173 N84-17639
Program for the analysis of fault trees [AD-A134746] 08 p1213 N84-17910
A Bayesian explanation of an apparent failure rate paradox [AD-A134748] 08 p1223 N84-17987
High resolution X- and gamma-ray spectroscopy of cosmic X-ray sources [NASA-CR-175368] 08 p1246 N84-18148
The vocoder project [AD-A135820] 09 p1302 N84-18512
Joint services electronics program [AD-A136058] 09 p1309 N84-18559
Dynamic analysis of structures using Lanczos coordinates [AD-A136387] 09 p1331 N84-18690
Calculations for uniaxial stress and strain cycling in plasticity [AD-A135800] 09 p1332 N84-18698
Some remarks on rate-dependent plasticity [AD-A136084] 09 p1333 N84-18704
Protein and carotenoid synthesis and turnover in gravistimulated root caps 09 p1352 N84-18837
Gravity, body mass and composition, and metabolic rate 09 p1355 N84-18854
Twinning of amphibian embryos by centrifugation 09 p1358 N84-18873
Approximating the distribution of a dynamic risk portfolio [AD-A136039] 09 p1383 N84-19035
Various aspects of network reliability [AD-A136579] 09 p1384 N84-19038
A thousand-word speech-recognition system using special-purpose MOS-LSI 09 p1399 N84-19140
State of the art in eigenvalue computations 09 p1401 N84-19154
Micro and macro mechanics of fracture in ceramics [AD-A137280] 10 p1465 N84-19572
Diffusion of gases in porous solids: Simulations and measurements [DE84-004146] 10 p1494 N84-19771
Model reference adaptive control of mechanical manipulators 10 p1555 N84-20194
A learning adaptive controller 10 p1568 N84-20272
General path-integral successive-collision solution of the bounded dynamic multi-swarm problem [AD-A136961] 10 p1570 N84-20287
Time-dependent Child-Langmuir diode simulation [AD-A136964] 10 p1570 N84-20288
Theory of asymmetric double layers [AD-A136960] 10 p1573 N84-20311
Linear longitudinal oscillations in collisionless plasma diodes with thin sheaths. Part 1: Method [AD-A136962] 10 p1585 N84-20388
Linear longitudinal oscillations in collisionless plasma diodes with thin sheaths. Part 2: Application to an extended pierce-type problem [AD-A136963] 10 p1585 N84-20389
Millimeter wavelength aperture synthesis maps of the star-forming region W58 10 p1595 N84-20455
The role of H/sub 2O in molecular clouds: Line transfer and thermal balance in warm dusty medium 10 p1596 N84-20460
Rocket observations of the diffuse ultraviolet background 10 p1598 N84-20470
Aerodynamic features of flames in premixed gases 11 p1613 N84-20559
Evaluation of document retrievel ranking algorithms 11 p1711 N84-21154
Studies of 3-5 compound semiconductors for optical and microwave applications [AD-A137849] 11 p1744 N84-21381
Data reduction and analysis for ISEE-A and -B energetic particles flux experiment and ISEE-C electron and X-ray experiments [NASA-CR-175220] 11 p1760 N84-21486
Crossed molecular beam studies of the reactions of oxygen and fluorine atoms [AD-A138299] 12 p1792 N84-21688
VLSI research, semi-annual technical R&D (Research and Development) [AD-A138339] 12 p1812 N84-21813
Measurement of fast transient and steady state responses of viscoelastic fluids with a sliding cylinder rheometer executing coaxial displacements [AD-A137996] 12 p1816 N84-21835
Mechanics of projectile impact against thin plates [AD-A138494] 12 p1823 N84-21882
Analysis of the quality of image data acquired by the LANDSAT-4 thematic mapper and multispectral scanners [E84-10106] 12 p1829 N84-21924
The changing scene in computational fluid dynamics [AD-A138661] 13 p1989 N84-22914
Shock waves and mass outflow in the Orion molecular cloud: Observations of far-infrared emission lines of carbon monoxide, hydroxyl and ammonia 13 p2071 N84-23423
Solution techniques in finite element analysis [AD-A139552] 14 p2158 N84-23931
Electromagnetic wave scattering by partially-buried metallic and dielectric objects [AD-A140109] 15 p2322 N84-24939
Contributions to the computation of the matrix exponential, revision [AD-A140089] 15 p2398 N84-25392
Banded preconditioning for the solution of symmetric positive definite linear systems [AD-A140097] 15 p2399 N84-25394
High resolution hard X-ray spectra of solar and cosmic sources [NASA-CR-173561] 15 p2429 N84-25587
Analysis of the quality of image data acquired by the LANDSAT-4 Thematic Mapper and Multispectral Scanners [E84-10137] 16 p2506 N84-26085
DOE-2, BDL summary, version 2.1B [LBL-8688-REV-3] 16 p2519 N84-26170
DOE-2, supplement, version 2.1B [LBL-8706-REV-3-SUPPL] 16 p2519 N84-26171
Informative stopping rules [AD-A140599] 17 p2758 N84-27507
The analysis of solar models: Neutrinos and oscillations [NASA-CR-173628] 17 p2780 N84-27652
An integrated, optimization-based approach to the design and control of large space structures [AD-A141856] 19 p2982 N84-28896
Research in computer simulation of integrated circuits [AD-A141855] 19 p3013 N84-29101
VLSI research [AD-A142142] 19 p3016 N84-29119
Design methodology for back-end database machines in distributed environments [AD-A142122] 19 p3072 N84-29491
Design and performance of a distributed relational data base system [AD-A142177] 19 p3073 N84-29495
Fatigue behavior of long and short cracks in wrought and powder aluminum alloys [AD-A142609] 20 p3153 N84-30024
Diffusion of gases in porous solids: Simulations and measurements [DE84-010822] 20 p3185 N84-30241
Characterization of LANDSAT-4 TM and MSS image quality for interpretation of agricultural and forest resources 20 p3213 N84-30411
Growth and characterization of metal oxide whiskers for aerosol filtration [DE84-011049] 20 p3310 N84-31021
Density fluctuations in premixed turbulent flames [DE84-012055] 21 p3361 N84-31322
Continuation of research in computer simulation of integrated circuits [AD-A143005] 21 p3465 N84-31970
Resource contention, synchronization, and information structure in distributed systems [AD-A143037] 21 p3518 N84-32287
Comparison between two Lysholm engines [DE84-013696] 22 p3564 N84-32571
Altering the volumetric expansion ratio of a Lysholm helical screw expander [DE84-013695] 22 p3564 N84-32573
Empirical modeling of a Lysholm helical screw expander [DE84-013694] 22 p3564 N84-32574
Research in monolithic, signal-processing circuits [AD-A143204] 22 p3586 N84-32709
Developing turbulent flow in strongly curved passages of square and circular cross-section [AD-A143279] 22 p3593 N84-32755
A study of the burning of a solid fuel surface in partial enclosures 23 p3712 N84-33532
Process modeling of sheet metal forming of general shapes by the finite element method based on large strain formulation 23 p3716 N84-33557
Optimal performance in a step motor controlled robot 23 p3735 N84-33664
Unsteady heat transfer during the interaction of a laminar flame with a cold wall 23 p3745 N84-33739
Laminar convection with buoyancy in tube flows with a surrounding liquid medium 23 p3745 N84-33740
Mechanical response of ceramics to creep loading 23 p3760 N84-33830
Mechanics of microcrack toughening in ceramics 23 p3760 N84-33831
Cirques of the Marble Mountains, northwestern California 23 p3795 N84-34065
Research on self-generated stochastic motion [AD-A144093] 23 p3820 N84-34225
HII regions in the outer galaxy 23 p3838 N84-34345
Search for emission lines in the gaseous halo of edge-on galaxies [NASA-CR-173968] 23 p3838 N84-34349
The structure, internal kinematics and dynamics of open star clusters 23 p3839 N84-34357
Stellar winds and their dynamical influence on the interstellar medium 23 p3840 N84-34358
Crustal shear velocity modelling in Nevada: A study of broadband multi-mode surface waves 24 p3918 N84-34802
Satellite observations of the extreme ultraviolet and far ultraviolet radiation fields 24 p3994 N84-35280

CALIFORNIA UNIV., BERKELEY. LAWRENCE BERKELEY LAB.

Atomic photoelectron-spectroscopy studies using synchrotron radiation [DE83-011740] 01 p0037 N84-10235
High-temperature corrosion of iron and iron-based alloys in sulfur-containing atmospheres [DE83-013843] 01 p0045 N84-10290
Continuous annealing of a Fe/0.1C/0.45Si/0.1Mo dual-phase steel [DE83-015984] 01 p0047 N84-10300

Design conditions for fail safe quenching of a high current density superconducting solenoid with a shorted secondary circuit
[LBL-14859] 01 p0069 N84-10449
Anodic films
[DE83-016603] 01 p0075 N84-10492
Generalized algebraic relation for predicting developing curved-channel flow with a k-epsilon model of turbulence
[DE83-009946] 01 p0080 N84-10520
Prediction of erosive wear by solid particles in a turbulent curved-channel flow
[DE83-012896] 01 p0081 N84-10524
Local networking with intelligent nodes
[DE83-014900] 01 p0127 N84-10832
Intense antiproton source for a 20 TeV collider
[DE83-012878] 01 p0142 N84-10934
Advanced light source
[DE83-012894] 01 p0143 N84-10940
Molecular-beam scattering
[DE83-016138] 01 p0144 N84-10951
High-resolution electron-microscopy studies of native oxide on silicon
[DE83-014794] 01 p0155 N84-11018
Performance and materials aspects of Ge:Be photoconductors
[NASA-CR-174470] 01 p0155 N84-11023
Lattice-parameter measurement in retained austenite by CBED
[DE83-013296] 02 p0195 N84-11267
Fatigue-crack growth behavior in a nitrogen-strengthened high-manganese steel at cryogenic temperatures
[DE83-016619] 02 p0195 N84-11269
Light-scattering studies of silica aerogels
[DE83-015412] 02 p0201 N84-11308
Catalysed low-temperature production of methane from water and graphite
[DE83-012474] 02 p0203 N84-11325
The 2-1/2-dimensional numerical solution for the electromagnetic scattering using a hybrid technique
[DE83-014860] 02 p0210 N84-11374
The influence of combustion on Reynolds stress in a strongly heated turbulent boundary layer
[DE83-015524] 02 p0220 N84-11444
Recent advances in high-speed photon detectors
[DE83-014862] 02 p0224 N84-11467
Laser accelerators
[DE83-016123] 02 p0227 N84-11489
Molecular-beam studies of photodissociation reactions
[DE83-015962] 02 p0228 N84-11492
Fatigue-crack propagation in viscous environments
[DE83-011741] 02 p0232 N84-11520
The geographic and statistical analysis of air quality data in the United States
[DE83-016471] 02 p0244 N84-11598
SPEC-DOC: A user's guide to spectrometer software
[DE83-013295] 02 p0274 N84-11790
The phenomenology of deep-inelastic processes
[DE83-016622] 02 p0292 N84-11913
Cryogenic system for a superconducting spectrometer
[DE83-012995] 02 p0299 N84-11961
The technology of superconducting accelerator dipoles
[DE83-016470] 02 p0299 N84-11963
Research activities in materials and molecular research
[DE83-015005] 03 p0347 N84-12255
Influence of heat-treatment and physicochemical properties on the electrochemical oxidation of carbon blacks in phosphoric acid
[DE83-017744] 03 p0350 N84-12276
Photothermal displacement spectroscopy of surfaces and thin films
[DE83-015957] 03 p0350 N84-12279
Self-correction coil: Operation mechanism of self-correction coil
[DE83-016324] 03 p0367 N84-12392
Evaluation of the Beijing Instrument Factory GDB-44F photomultiplier
[DE84-000849] 03 p0368 N84-12398
Comparison of technologies for new energy-efficient lamps
[DE83-015949] 03 p0369 N84-12401
Development of a continuous monitor for detection of toxic organic compounds
[PB83-234922] 03 p0378 N84-12461
Experimental studies relating environmental lighting and flicker to visual fatigue in VDT operators
[DE83-016316] 03 p0419 N84-12738
Statistical calculation of complete events in medium-energy nuclear collisions
[DE83-015951] 03 p0434 N84-12847
Quark-gluon plasma formation
[DE83-017742] 03 p0436 N84-12861
New statistical and non-statistical effects in deep inelastic heavy-ion collisions
[DE83-015732] 03 p0439 N84-12885
Efficient radiation-hardened, 400- and 800-keV neutral-beam injection systems
[DE83-015691] 03 p0440 N84-12886
Novel method for the study of optical properties of surfaces
[DE83-012899] 03 p0441 N84-12895
A 2-D skin-current toroidal-MHD-equilibrium code
[DE83-016916] 03 p0446 N84-12929
Optical properties and correlation energy of defects in a-Ge:H
[DE83-016697] 03 p0455 N84-12993
Phonon-induced enhancements of the energy gap and critical current in superconducting aluminum
[DE83-015210] 03 p0455 N84-12996
Applications of molecular quantum mechanics to problems in chemistry
[DE83-015943] 03 p0456 N84-13003
Application of surface-physics techniques to the study of electrochemical systems
[DE84-000957] 04 p0494 N84-13245
Selective catalytic hydrogenation of polynuclear heteroaromatic nitrogen compounds with polymer-supported transition-metal compounds
[DE84-001326] 04 p0495 N84-13248
Molecular basis for local compositions in liquid-mixture models
[DE83-016804] 04 p0495 N84-13250
Dissociative ionization of liquid water induced by vibrational overtone excitation
[DE83-017739] 04 p0495 N84-13251
Problems and prospects in strange baryon spectroscopy
[DE83-016119] 04 p0496 N84-13253
Calculations of composition boundaries of saturated phases
[DE84-001665] 04 p0499 N84-13274
Control and operation cost optimization of the HISS cryogenic system
[DE83-017741] 04 p0515 N84-13384
Cryogenic testing of the TPC superconducting solenoid
[DE84-000528] 04 p0527 N84-13467
Evaluation of Hamamatsu R1635 photomultiplier
[DE84-001252] 04 p0527 N84-13468
Low-noise gallium-arsenide field-effect transistor preamplifiers for stochastic beam-cooling systems
[DE83-017535] 04 p0528 N84-13475
Heat transfer to subcooled HE 1
[DE83-017767] 04 p0535 N84-13520
Proceedings of the Seventh International Conference on High Voltage Electron Microscopy
[DE83-016323] 04 p0538 N84-13540
Effects of compensation on light-induced metastable defects in aSi:H
[DE83-016696] 04 p0558 N84-13680
Statistical properties of deep inelastic reactions
[DE84-000722] 04 p0598 N84-13943
Summary of the status of negative-ion-based neutral beams
[DE84-001328] 04 p0598 N84-13948
New concepts in particle acceleration
[DE83-017747] 04 p0600 N84-13961
Vibrational spectroscopy of chemisorbed molecules by infrared emission
[DE84-000956] 04 p0602 N84-13973
Fast, self-nulling spectroscopic ellipsometer: Instrumentation and application, revision
[DE83-015531] 04 p0605 N84-13994
Forced two-phase cooling of the TPC superconducting solenoid
[DE83-017749] 04 p0613 N84-14049
Effect of hydrodynamic flow on the morphology of electrodeposited zinc
[DE84-001816] 05 p0651 N84-14281
Mass transfer at gas-evolving surfaces in electrolysis
[DE84-002567] 05 p0651 N84-14282
Glass-like carbon: A C/sub x/H polymer intercalation compound
[DE84-001863] 05 p0660 N84-14340
Direct determination of surface structures from photoelectron diffraction
[DE84-002572] 05 p0663 N84-14360
A summary of modeling studies of the Krafla Geothermal Field, Iceland
[DE84-000939] 05 p0697 N84-14578
Raman study of graphitic-carbon concentrations in the Western Arctic
[DE84-001090] 05 p0700 N84-14596
Inverse torsional Eigenvalue problems
[DE84-002568] 05 p0704 N84-14621
Thermodynamics of condensed ionic systems
[DE84-001823] 05 p0755 N84-14950
Annealing of interstitial loops in arsenic implanted silicon
[DE84-000384] 05 p0755 N84-14953
General purpose magnetic-measurement data-acquisition system
[DE84-001101] 05 p0759 N84-14982
Lethal, potentially lethal lesion model
[DE84-001325] 06 p0886 N84-15762
Major detectors in elementary particle physics
[LBL-91-SUPPL] 06 p0910 N84-15910
Proceedings of the 1983 DPF Workshop on Collider Detectors: Present Capacities and Future Possibilities
[LBL-15973] 06 p0910 N84-15911
Experience of the axial field spectrometer at the CERN ISR 06 p0910 N84-15912
Search for Hadron jets and large transverse momentum electrons at the SPS pp collider 06 p0911 N84-15913
Cross section estimates for multi-TeV physics 06 p0911 N84-15914
Monte Carlo simulation of high p/sub P jets 06 p0911 N84-15915
The problem of tracking charged particles in the cores of high energy jets in a high rate environment 06 p0911 N84-15916
Review of properties of various types of calorimeters: High luminosity and high energy 06 p0911 N84-15917
Trigger systems which could operate at a luminosity of 10/sup 33 cm(-2) to sec/sup -1 06 p0911 N84-15918
Searching for limitations in capability due to high average rates 06 p0911 N84-15919
Detectors at 20 TeV and detector considerations for a high luminosity hadron-hadron machine 06 p0911 N84-15920
The concept of a solid state direct chamber 06 p0912 N84-15924
Large area non-crystalline semiconductor detectors 06 p0912 N84-15925
Specific heat of He-3 in the Fermi liquid region
[DE83-011566] 06 p0924 N84-16009
Thermodynamics of aqueous sodium chloride to 823 K and 1 kbar
[DE84-001841] 06 p0927 N84-16019
Impedance and ellipsometer measurements of lithium electrodes in propylene carbonate solutions
[DE84-003922] 07 p0998 N84-16475
Free electron laser with versatile polarization capability
[DE84-002889] 07 p1011 N84-16557
Canonical derivation of the Vlasov-Coulomb noncanonical poisson structure
[DE84-002909] 07 p1064 N84-16900
Geologic disposal of radioactive waste, 1983
[DE84-002890] 07 p1074 N84-16982
Performance and materials aspects of Ge:Be and Ge:Ga photoconductors for far-infrared detection
[DE84-003048] 07 p1081 N84-17029
Structure, inhibition and extinction of polymer diffusion flames
[PB84-101336] 08 p1127 N84-17327
Specific heat of He-3 in the Fermi-liquid region
[DE83-014858] 08 p1162 N84-17566
Fundamental mathematical principles for electrochemical engineering
[DE84-002181] 08 p1221 N84-17975
Acoustic imaging of vapor bubbles through optically non-transparent media
[DE84-003961] 08 p1228 N84-18022
Power-amplification of a heavy-ion beam in an induction linac
[DE84-002911] 08 p1231 N84-18042
Fast diffusion of iron in single crystal rutile and iron doped rutile
[DE84-004021] 08 p1236 N84-18079
Angle-resolved photoemission extended fine structure
[DE84-002899] 08 p1236 N84-18080
Optical measurement of SO/sub 2 in combustion environments
[DE84-002927] 09 p1342 N84-18768
User's manual for the DOE Technical Information Center Integrated Record Input System (IRIS)
[DE83-013074] 09 p1405 N84-19178
Physics, Computer Science and Mathematics Division
[DE84-003915] 09 p1418 N84-19278
Density of sodium chloride solutions at high temperatures and pressures
[DE84-004883] 10 p1456 N84-19508
Solid electrolyte degradation: Problems and solutions
[DE84-002916] 10 p1457 N84-19514
Design and characterization of Mn-Al-C alloys for permanent magnet applications
[DE84-004881] 10 p1461 N84-19542
Magneto-mechanical effects in 304 stainless steels
[DE84-004343] 10 p1462 N84-19546

Use of phase transformations in the design of alloy steel
[DE84-003050] 10 p1462 N84-19550

Cryogenically cooled broad-band GaAs field-effect transistor preamplifier
[DE84-004166] 10 p1487 N84-19722

Multichannel interval timer
[DE84-004635] 10 p1499 N84-19795

Chemical application of diffusion quantum Monte Carlo 10 p1560 N84-20218

Interactive parallel processor for data analysis
[DE84-004311] 10 p1564 N84-20250

Molecular ion photofragment spectroscopy
[DE84-003299] 10 p1577 N84-20333

Elastic theory of the defect solid solution
[DE84-001976] 10 p1590 N84-20418

Numerical simulation of flame propagation in a closed vessel
[DE84-004959] 11 p1629 N84-20663

Physical metallurgy and alloy design of dual phase steels
[DE84-005182] 11 p1634 N84-20682

Effect of Rhodamine-B on the electrodeposition of lead on copper
[DE84-005535] 11 p1634 N84-20683

Accuracy of vortex methods
[DE84-005714] 11 p1654 N84-20796

Numerical study of Kelvin-Helmholtz instability by the point vortex method
[DE84-006613] 11 p1654 N84-20797

High resolution study of the relationship between misfit accommodation and growth of Cu sub 2-x in CdS
[DE84-004636] 11 p1673 N84-20920

Atmospheric aerosol research for FY 82
[DE84-004308] 11 p1676 N84-20937

Operation of a computer aided drafting system: Improvement, results and hopes
[DE84-005176] 11 p1708 N84-21134

Automatic, self-nulling, spectral scanning ellipsometer: Software for the LSI-11 data acquisition system
[DE83-015007] 11 p1709 N84-21139

Multiplication of processing capacity with a parallel processor array
[DE84-004654] 11 p1711 N84-21156

Lie algebraic methods for particle tracking calculations
[DE84-004310] 11 p1716 N84-21196

Chiral anomalies and differential geometry
[DE84-004637] 11 p1717 N84-21200

Electron microscopy at atomic resolution
[DE84-005546] 11 p1730 N84-21288

The growth and characterization of single crystal (Cd, Zn)S thin films relevant to the study of the (Cd, Zn)S/Cu/sub x/S photovoltaic cell
[DE84-003288] 11 p1745 N84-21385

Achieving chemical accuracy by quantum Monte Carlo
[DE84-005175] 11 p1746 N84-21392

Chemical application of diffusion quantum Monte Carlo
[DE84-005173] 11 p1746 N84-21393

Second Berkeley Catalysis and Surface Science Conference
[DE84-005536] 12 p1794 N84-21699

Research highlights from the Earth Sciences Division
[DE84-003916] 12 p1828 N84-21916

Computer-assisted information graphics from the graphic design perspective
[DE84-006059] 12 p1884 N84-22281

Choice of IP geometry and beam parameters for the SSC
[DE84-006610] 12 p1903 N84-22390

Fault detection and protection system for neutral beam generators on the Neutral Beam Engineering Test Facility (NBETF)
[DE84-006634] 12 p1903 N84-22394

Wave dynamics of regular and chaotic rays
[DE84-006061] 12 p1911 N84-22452

Field generated within the SSC magnets due to persistent currents in the superconductor
[DE84-006629] 12 p1915 N84-22476

High resolution TEM studies of defects near Si-SiO/sub 2 interface
[DE84-006562] 12 p1915 N84-22480

Graphic design for computer-based information management: A case study of Seedis
[DE84-005873] 12 p1919 N84-22505

High temperature failure mechanisms in ceramic polycrystals
[DE84-006641] 13 p1965 N84-22764

Analysis of production data from the Krafla geothermal field, Iceland
[DE84-006881] 13 p2006 N84-23014

Generating capacity of the Heber geothermal field, California
[DE84-006883] 13 p2009 N84-23030

Formation of negative ions by charge transfer: He(-) to Cl(-)
[DE84-005718] 13 p2041 N84-23243

Design and fabrication of a surface conversion negative ion source and an 80 keV pre-accelerator
[DE84-006753] 13 p2045 N84-23269

RFQ development at LBL
[DE84-006762] 13 p2045 N84-23271

Deep level impurities in germanium and silicon: Low temperature passivation or removal techniques
[DE84-006772] 13 p2048 N84-23286

Characterization of single crystal Cu/sub 2S/CdS heterojunctions by hing resolution electron microscopy
[DE84-006761] 13 p2048 N84-23287

Adsorption and catalyzed reactions of CO and CO2 on graphite surfaces
[DE84-006625] 14 p2123 N84-23725

Electrochemical and spectroelectrochemical studies of some coordination compounds in high oxidation states
[DE84-006637] 14 p2123 N84-23727

Influence of the viscous environments on fatigue crack propagation in a lower strength steel
[DE84-008247] 14 p2128 N84-23761

Inner-shell photoemission from atoms and molecules using synchrotron radiation
[DE84-006624] 14 p2223 N84-24339

Nuclear moments of inertia at high spins
[DE84-005717] 14 p2224 N84-24345

Development of neutron-transmutation-doped germanium bolometer material
[DE84-008248] 14 p2243 N84-24471

Chemical modification of surfaces: The effect of potassium on the chemisorption of molecules on transition metal crystal surfaces
[DE84-008345] 14 p2244 N84-24473

Measurement of the intensity of the cosmic background radiation at 3.0 cm
[DE84-008246] 14 p2252 N84-24525

New developments in cylinder testing
[DE84-002782] 15 p2337 N84-25033

Advanced electrochemical energy storage systems
[DE84-008245] 15 p2364 N84-25184

Graphic design of program text
[DE84-008162] 15 p2393 N84-25360

Hopf bifurcation and the beam-plasma instability
[DE84-008243] 15 p2412 N84-25480

Pulsed magnetic field testing of multifilamentary Nb3Sn superconducting wire
[DE84-008250] 15 p2414 N84-25492

Proceedings of the 2nd International Workshop on Statistical Database Management
[DE84-005866] 15 p2418 N84-25522

The radiative cooling resource
16 p2513 N84-26131

The predicted impact of linear roof apertures on the energy performance of office buildings
16 p2514 N84-26133

Thermal effects resulting from occupant behavior and building operation 16 p2515 N84-26143

Computer program for studying turbulent convection in buildings 16 p2517 N84-26155

Advanced optical and thermal technologies for aperture control 16 p2517 N84-26156

Transparent aerogels for low-conductance windows
16 p2517 N84-26157

Automatic, self-nulling, spectral scanning ellipsometer: Software for the LSI-11 data acquisition system
[LBL-15525] 16 p2543 N84-26320

Weldability of 2BT-treated 9Ni steel with ferritic filler metal
[DE84-006492] 18 p2815 N84-27869

Integrated Record Input System (IRIS) for the DOE/Technical Information Center
[DE84-008494] 18 p2945 N84-28675

Transport phenomena in improved electrochemical cell design for the production of magnesium
[DE84-010567] 19 p2989 N84-28944

Mechanisms of microstructurally-influenced fatigue crack growth in dual-phase steels
[DE84-008491] 19 p2995 N84-28979

Application of HVEM in phase transformation research
[DE84-009226] 19 p2996 N84-28982

Some recent progress in steep front calculations for porous flow
[DE84-008249] 19 p3025 N84-29183

Effect of manufacturing errors on field quality of the LBL SSC dipoles
[DE84-009224] 19 p3033 N84-29238

Calculation of natural ventilation and comfort
[DE84-009215] 19 p3071 N84-29485

Application of the graphical unitary group approach to the energy second derivative for CI wave functions via the coupled perturbed CI equations
[DE84-008489] 19 p3112 N84-29772

Experimental investigation of 4-dimensional superspace crystals
[DE84-009239] 19 p3112 N84-29775

Vortex methods and turbulent combustion
[DE84-011874] 20 p3150 N84-30004

Influence of processing on the cryogenic mechanical properties of high strength high manganese stainless steel
[DE84-008242] 20 p3154 N84-30027

Galvanic corrosion of an aluminum O-ring
[DE84-011345] 20 p3157 N84-30047

Low temperature sintering of Al2O-CaO
[DE84-010713] 20 p3163 N84-30083

High resolution electron microscopy studies of the early stages of decomposition in alloys and ceramics
[DE84-020802] 20 p3163 N84-30087

Nutritional and environmental factors in ethanol fermentation by Saccharomyces cerevisiae
[DE84-009893] 20 p3167 N84-30110

Performance of Beverage antennas at low angles
[DE84-011163] 20 p3175 N84-30164

Near-threshold fatigue crack propagation: A perspective on the role of crack closure
[DE84-009669] 20 p3180 N84-30202

Transport properties of concentrated solutions
[DE84-008495] 20 p3181 N84-30210

Proposed scientific activities for the Salton Sea scientific drilling project
[DE84-012256] 20 p3243 N84-30586

Daylight availability as a function of atmospheric conditions
[DE84-007973] 20 p3247 N84-30609

Enhancements to the codata definition language
[DE84-010579] 20 p3274 N84-30783

WC user's guide
[DE84-009242] 20 p3274 N84-30784

A 6.5 Tesla SSC lattice example
[DE84-010719] 20 p3285 N84-30858

A high current heavy ion beam transport experiment at LBL
[DE84-009225] 20 p3294 N84-30912

High-spin gamma-ray spectroscopy
[DE84-010716] 20 p3296 N84-30929

Determination of energetics and spectra of simple molecular systems using theoretical methods
[DE84-009668] 20 p3296 N84-30930

Optical second-harmonic generation for surface studies
[DE84-010718] 20 p3300 N84-30958

Electrochromic materials for the regulation of solar energy transmission through windows
[DE84-012165] 20 p3311 N84-31029

New approaches to photothermal spectroscopy
[DE84-009237] 21 p3359 N84-31310

Catalyzed photodissociation of water
[DE84-012253] 21 p3361 N84-31325

Vibrational spectra of CO on Ni(100) studied by infrared emission spectroscopy
[DE84-009246] 21 p3362 N84-31327

Active material redistribution rates in zinc electrodes: Effect of alkaline electrolyte compositions having reduced zinc oxide solubility
[DE84-010709] 21 p3392 N84-31525

Technology base research project for electrochemical energy storage
[DE84-012248] 21 p3393 N84-31535

Continuum theory for fiber suspensions
[DE84-012258] 21 p3402 N84-31584

Short wavelength optics for future free electron lasers
[DE84-012316] 21 p3410 N84-31626

Studies in atmospheric chemistry. Part 1: Primary peroxides from hydrocarbons. Part 2: elemental analysis using nuclear reactions
[DE84-012246] 21 p3445 N84-31857

Beam experiment programs in the USA
[DE84-010804] 21 p3493 N84-32138

Far infrared optical properties of WbSe3
[DE84-009223] 21 p3498 N84-32173

Energy redistribution in diatomic molecules on surfaces
[DE84-011442] 21 p3505 N84-32213

Molecular beam mass spectrometer sampling of flash ignited combustion
[DE84-006771] 22 p3548 N84-32459

Conditional velocity statistics in premixed CH-4-air and C-2H-4-air turbulent flames
[DE84-012257] 22 p3549 N84-32464

Microstructure, mechanical properties and two-body abrasive wear resistance of an Fe-3Cr-C based ultra-high strength steel
[DE84-014605] 22 p3556 N84-32520

Effect of precipitated austenite on the fracture of a ferritic cryogenic steel
[DE84-014604] 22 p3557 N84-32521

High-intensity discharge (HID) solid-state ballast program: Engineering development report, phase 2
[DE84-013882] 22 p3588 N84-32726
General energy balance for battery systems
[DE84-013235] 22 p3589 N84-32731
Developing turbulent flow in a 180(0) curved pipe and its downstream tangent
[DE84-013391] 22 p3595 N84-32767
Technology Base Research Project for Electrochemical Energy Storage
[DE84-013877] 22 p3619 N84-32930
Roles of ionizing radiation in cell transformation
[DE84-013397] 22 p3629 N84-32995
Spot heating calculation for a heavy ion driven high temperature experiment
[DE84-013879] 22 p3653 N84-33159
Negative ion formation due to hydrogen plasma surface interaction
[DE84-012259] 22 p3659 N84-33192
Radial distribution function as an analysis technique
[DE84-013242] 22 p3665 N84-33235
Effect of surface doping on the oxidation of chromia former alloys
[DE84-013390] 22 p3667 N84-33247
The effect of dimensionality on solar spectrum curves
[DE84-014136] 22 p3680 N84-33327
Unsteady heat transfer during laminar flame quenching
[DE84-006301] 23 p3715 N84-33550
Critical current density of bronze-processed multifilimentary Nb-3Sn wires with magnesium addition to the matrix
[DE84-014579] 23 p3719 N84-33576
Control of respirable particles and radon progeny with portable air cleaners
[DE84-013878] 23 p3812 N84-34170
Dynamic resonances in the reaction of fluorine atoms with hydrogen molecules
[DE84-013240] 23 p3823 N84-34242

CALIFORNIA UNIV., DAVIS.

LANDSAT-D thematic mapper image dimensionality reduction and geometric correction accuracy
[E84-10011] 02 p0236 N84-11549
Gravitational study of the central nervous system
02 p0263 N84-11730
Ozone toxicity effects consequent to prolonged, high intensity exercise
[PB83-237388] 02 p0267 N84-11755
Two dimensional linear prediction models. Part 1. Spectral factorization and realization
[AD-A130954] 02 p0280 N84-11833
Microwave studies of hot intracluster gas
02 p0306 N84-12011
Transmission of fast neutrons from the Li(d,xn) reaction through thick iron
[DE83-015975] 03 p0439 N84-12684
A theoretical analysis of the past variations in global atmospheric composition and temperature structure
08 p1190 N84-17754
Kinematics and dynamics of multi-rigid-body open-chain systems: Application to robot manipulators
08 p1204 N84-17851
Set-point changes in hierarchically-arranged thermogenic systems 09 p1355 N84-18853
Avian embryonic development in hyperdynamic environments
[NASA-CR-173339] 09 p1360 N84-18885
A quaternary logic encoder-decoder circuit design using CMOS
[AD-P002351] 14 p2192 N84-24142
LANDSAT-D Thematic Mapper image dimensionality reduction and geometric correction accuracy
[E84-10149] 16 p2508 N84-26097
Application of micropolar elasticity to the finite element continuum analysis of articulated structures
17 p2679 N84-27064
User's manual for SAC-3: A 3-dimensional nonlinear, time dependent soil analysis code using the bounding surface plasticity model
[AD-A137782] 18 p2853 N84-28114
The role of sintering in the oxidation-reduction of palladium powders
[DE84-011202] 20 p3159 N84-30059
Investigation of the role of sintering in gas-solid interactions
[DE84-010862] 20 p3163 N84-30089
Laboratory for Energy Related Health Research
[DE84-000529] 20 p3257 N84-30672
Mechanisms of thermoregulation of rats exposed to hypergravic fields 22 p3628 N84-32989
Evaluation of airborne lidar wind measurements
24 p3928 N84-34865

CALIFORNIA UNIV., IRVINE.

The interaction of electromagnetic radiation with solid materials
[AD-A130727] 01 p0066 N84-10429
Thin-film guided-wave devices for integrated/fiber optic signal processing and communications
[AD-A129582] 01 p0152 N84-11001
Structural effects on hydrogen bonding properties of nitro compounds
[AD-A130617] 02 p0190 N84-11232
Collective-focusing ion accelerator
[DE83-012795] 02 p0290 N84-11899
Modeling of transient disturbances in coronal-streamer configurations 03 p0474 N84-13119
Test of the inverse square law of gravity at distances of 5cm and 1m 04 p0593 N84-13914
The MHD stability of inertia-tied Z-pinches with application to solar coronal loops
04 p0596 N84-13932
Intermolecular energy-transfer processes
[DE84-000334] 04 p0601 N84-13971
High power, very broadband microwave radiation from the interaction of a relativistic electron beam with plasmas in the low magnetic field regime, with application to the type 3 solar burst phenomenon
05 p0665 N84-14371
Behavioral change of blood lactate metabolism
[PB84-100171] 08 p1204 N84-17850
Evaluation of a candidate model complex flow combustor using instantaneous two-color laser anemometry
10 p1458 N84-19521
Prochloron expedition 10 p1545 N84-20124
Effect of liquid droplets on turbulence structure in a round gaseous jet 11 p1609 N84-20533
Effect of solid particles on the turbulent flow of a round gaseous jet: A mathematical and experimental study
[DE84-005830] 11 p1653 N84-20794
Hybrid integrated optic modules for real-time signal processing 12 p1905 N84-22412
Optical measurements of soot size and number density in a complex flow, swirl-stabilized combustor
15 p2292 N84-24753
Interactions between volume and surface EM waves in layered structures 19 p3047 N84-29331
International Conference on Radiationless Transitions
[AD-A141407] 19 p3100 N84-29695
Creep transitions in aluminum solid-solution alloys
22 p3550 N84-32472
High-current betatron, phase 1
[AD-A143748] 23 p3824 N84-34252

CALIFORNIA UNIV., IRVINE, DAYTON, OHIO.

Proceedings of the 13th Conference on Environmental Toxicology
[AD-A134150] 07 p1027 N84-16657
Toxic Hazards Research Unit report, 1983
[AD-A136170] 09 p1362 N84-18896

CALIFORNIA UNIV., LA JOLLA.

Anomalously high potentials observed on ISEE
08 p1116 N84-17258

CALIFORNIA UNIV., LIVERMORE. LAWRENCE LIVERMORE LAB.

Data analysis of the LLNL hydrogen igniter experiments
[DE83-010260] 01 p0037 N84-10236
Thermal stability of four high-strength, high-conductivity copper sheet alloys
[DE83-013312] 01 p0045 N84-10288
Corrosion evaluation of aluminum 5083
[DE83-015786] 01 p0047 N84-10301
Development of alternate silicone potting compounds. Volume 11: Influences of temperature, material variables and composition variables on the properties of substitute potting compounds
[DE83-013025] 01 p0051 N84-10326
Contrast between natural and experimentally controlled fires in forced ventilated enclosures
[DE83-013038] 01 p0057 N84-10373
The singularity expansion method applied to plane wave scattering from a lossy slab on a conducting half-space
[DE83-012942] 01 p0068 N84-10442
Project scattering of elastic waves
[DE83-013574] 01 p0068 N84-10444
Lecture notes for Bulk and Hourglass Viscosities in Wave Propagation Codes
[DE83-013042] 01 p0068 N84-10445
The MSAD actuator sclenoid, performance evaluation and modification
[DE83-011216] 01 p0074 N84-10483
Subnanosecond-rise-time, low-impedance pulse generator
[DE83-013793] 01 p0074 N84-10485
Small and light thyratron grid driver
[DE83-014941] 01 p0075 N84-10490
Gate array layout using CADDS 2
[DE83-014840] 01 p0075 N84-10491
Modeled heating and surface erosion comparing motile (gas borne) and stationary (surface coating inert particle additives
[DE83-000597] 01 p0080 N84-10521
Multigrid semi-implicit hydrodynamics revisited
[DE83-012675] 01 p0081 N84-10526
Signal-processing capabilities of a computerized ultrasonic scanning bridge
[DE83-013708] 01 p0085 N84-10553
Pulse power for the RAPIER B amplifier KrF laser system
[DE83-012951] 01 p0088 N84-10573
Feasibility of using sonic techniques to estimate in-situ stresses
[DE83-016890] 01 p0097 N84-10634
S-1 uniprocessor architecture
[DE83-012344] 01 p0119 N84-10774
CAMDAS (CAMAC data-acquisition system)
[DE83-014907] 01 p0124 N84-10810
Element Choices for Explicit and Implicit Nonlinear Finite-Element Computation. The Ispra Courses on Structural Dynamics: Lecture notes
[DE83-013041] 01 p0134 N84-10880
What can be learned with fast neutrons?
[DE83-015783] 01 p0144 N84-10948
Novel neutralized-beam intense neutron source for fusion technology development
[DE83-014953] 01 p0144 N84-10949
Intense positron beams: Linacs; preworkshop copy
[DE83-012941] 01 p0146 N84-10958
Fueling of fusion devices by pellet injection: Development in the USA
[DE83-013706] 01 p0151 N84-10990
TIS (Technology Information System): A focal point for technology transfer
[AD-A130798] 01 p0161 N84-11060
Downloading and post-processing of bibliographic information with the TIS (Technology Information System) intelligent gateway computer
[AD-A130800] 01 p0162 N84-11062
Additional symbols used in double-spaced text for Wang OIS word-processor users
[DE83-014908] 01 p0162 N84-11065
Design analysis of an aluminum-air battery for vehicle operations: Transportation systems research
[DE83-014488] 01 p0163 N84-11071
Electrochemical generation of N2O5
[DE83-013377] 02 p0190 N84-11235
High pressure equation of state of Li, Na and K
[DE83-014844] 02 p0191 N84-11236
Plating on aluminum: Influence on varying zinc immersion treatment times
[DE83-015246] 02 p0196 N84-11272
Theory of the iron equation of state and melting curve to very high pressures
[DE83-015899] 02 p0196 N84-11274
Hugoniot measurements on unsintered metal powders
[DE83-016364] 02 p0196 N84-11277
Prediction of microstructural modification in dynamically consolidated metal powders
[DE83-015690] 02 p0196 N84-11278
The yield stress and strain-rate sensitivity of nickel over a wide temperature range
[DE83-016913] 02 p0197 N84-11279
Old explosives facilities need love (safety analyses) too
[DE83-014447] 02 p0205 N84-11334
Feasibility tests of pipeline pigs for cryogenic pipelines
[DE83-015494] 02 p0206 N84-11343
On setting up boundary conditions for soil-structure interaction problems with DYNALK (a ling from TENSOR to DYNA3D)
[DE83-016914] 02 p0206 N84-11344
Shocked fluids at high densities and temperatures
[DE83-015901] 02 p0219 N84-11437
Fabry-Perot velocimetry techniques: Is Doppler shift affected by surface-normal direction?
[DE83-015902] 02 p0224 N84-11472
X-ray streak crystal spectrography
[DE83-015618] 02 p0225 N84-11473
Raising the surface damage threshold of neutral solution processed BK-7 by pulse laser irradiation
[DE83-012660] 02 p0225 N84-11477
Laser dye toxicity, hazards and recommended controls
[DE83-011896] 02 p0227 N84-11485
Electromagnetic forces related to flash-lamp failures in the Nova/Novette amplifiers
[DE83-016524] 02 p0227 N84-11491
MAZE: An input generator for DYNA2D and NIKE2D
[DE83-016415] 02 p0274 N84-11795
LLNL Basic Energy Sciences Program in numerical methods for partial differential equations
[DE83-016531] 02 p0283 N84-11852
High-current railgap studies
[DE83-013859] 02 p0290 N84-11898
Leak testing and repair of fusion devices
[DE83-014942] 02 p0296 N84-11944
Thermal analysis of a helium-cooled tube-bank blanket module for a tandem-mirror fusion reactor
[DE83-015840] 02 p0297 N84-11945

Radioactive-ion-beam research at Livermore
[DE83-014872] 02 p0297 N84-11946
Lithium equation-of-state
[DE83-017988] 03 p0347 N84-12253
Erosive particle kinematics in the turbulent combustion boundary layer contacting a solid wall
[DE83-010594] 03 p0349 N84-12272
Evaluation of several high-strength copper sheet alloys
[DE83-015612] 03 p0353 N84-12296
Using an X-ray-sensitive vidicon and remote-control stage mechanism to obtain critical radiographic alignment of small explosive devices
[DE83-012846] 03 p0358 N84-12326
Physical modeling of EM propagation over nonhomogeneous terrain 03 p0364 N84-12370
Numerical modeling techniques for antennas 03 p0365 N84-12373
Numerical modeling techniques for half-space (ground) problems 03 p0365 N84-12374
Structure and vibrational spectra of a model of a-Si:H with periodic boundary conditions
[DE83-015245] 03 p0367 N84-12390
Advanced high-field coil designs: 20 Tesla
[DE83-017368] 03 p0368 N84-12397
Damage thresholds of thin film materials and high reflectors at 248 nm
[DE83-012663] 03 p0380 N84-12472
Windows and mirrors needed for a laser-driven photoneutralizer
[DE83-013582] 03 p0380 N84-12473
Experiments to study the feasibility of making an X-ray laser at the Novette laser facility
[DE83-015615] 03 p0380 N84-12476
Inertial effects in laser-driven ablation
[DE83-016941] 03 p0380 N84-12478
Feasibility of a laser or charged-particle-beam fusion-reactor concept with direct electric generation by magnetic-flux compression
[DE83-015735] 03 p0381 N84-12482
Creation of ultra-high-pressure shocks by the collision of laser-accelerated disks: Experiment and theory
[DE83-017366] 03 p0382 N84-12486
Initial assessment of the MHD stability of TMX-U
[DE83-016521] 03 p0404 N84-12646
Praxis language environment: Distribution-package description
[DE83-017546] 03 p0421 N84-12750
Lecture notes for contact-impact algorithms for large-deformation finite-element analysis
[DE83-013039] 03 p0426 N84-12769
Theoretical and experimental studies of shock-compressed benzene and polybutene
[DE83-015884] 03 p0430 N84-12816
Magnetic switching
[DE83-012952] 03 p0433 N84-12841
Measurements of the emittance and current density profile of the beam produced by the ATA injector
[DE83-016522] 03 p0434 N84-12848
Hazards Control Department annual technology review, 1982
[DE83-015598] 03 p0439 N84-12883
Generation of monoenergetic positrons
[DE83-015535] 03 p0440 N84-12887
Process, product, and waste-stream monitoring with fiber optics
[DE83-001102] 03 p0441 N84-12899
Fabrication of machined optics for precision applications
[DE83-015720] 03 p0442 N84-12900
Recent results in the Los Alamos compact torus program
[DE83-014147] 03 p0446 N84-12930
Fokker-Planck equation in mirror research
[DE83-016568] 03 p0446 N84-12932
Time-resolved spectral measurements above 80 A
[DE83-015616] 03 p0446 N84-12933
Summary of the MARS tandem-mirror reactor design
[DE83-017293] 03 p0447 N84-12939
Three-dimensional equilibrium in quadrupole symmetric tandem mirrors in the paraxial limit (reduced MHD)
[DE83-017840] 03 p0447 N84-12940
Vacuum measurements on the tandem mirror experiment upgrade (TMX-U) fusion experiment
[DE83-017836] 03 p0448 N84-12946
Status of tandem-mirror confinement
[DE83-017389] 03 p0448 N84-12948
Thermal barriers: Their purpose and functioning
[DE83-017385] 03 p0449 N84-12954
TMX-U experimental results
[DE83-016790] 03 p0449 N84-12955
Multidipole magnetic fields for plasma confinement
[DE83-016014] 03 p0450 N84-12960
Review of some recent theoretical calculations of phase transitions and comparisons with experimental results
[DE83-015863] 03 p0453 N84-12983
Characterization by X-ray topography of laser-induced damage in potassium dihydrogen phosphate crystals
[DE83-012045] 03 p0454 N84-12985
Thermal performance of the MFTF magnets
[DE83-016275] 03 p0454 N84-12988
Methods for deconvoluting and interpreting complex gamma and X-ray spectral regions
[DE83-013585] 03 p0454 N84-12991
Revitalization: An organizational program for the individual
[DE83-014949] 03 p0458 N84-13013
A laser-fusion rocket for interplanetary propulsion
[DE84-001238] 04 p0490 N84-13219
Overview of composites capability at Lawrence Livermore National Laboratory
[DE84-001086] 04 p0492 N84-13226
Statistical analysis of Kevlar 49/epoxy composite stress-rupture data
[DE84-000516] 04 p0492 N84-13230
Vacuum outgassing of various materials
[DE84-001449] 04 p0495 N84-13247
Electrolytic gettering of tritius from air
[DE84-000174] 04 p0496 N84-13252
Reduction of tritium permeation through iron using aluminum-ion implantation
[DE84-000184] 04 p0500 N84-13279
Aluminum as a global high-pressure equation-of-state standard
[DE84-000153] 04 p0501 N84-13287
Bound and free moisture in explosives and plastics
[DE84-001402] 04 p0509 N84-13339
NOVANET: Communications network for a control system
[DE83-013862] 04 p0523 N84-13436
Air-breakdown limits for microwave-pulse propagation. Part 1. Experiments
[DE83-017832] 04 p0523 N84-13438
An FET full-bridge switcher for inductorless capacitor charging for Nova
[DE83-018005] 04 p0528 N84-13471
Further studies on equal-order interpolation for Navier-Stokes
[DE84-000916] 04 p0534 N84-13512
Theoretical modeling of converging and diverging detonation waves in solid and gaseous explosives
[DE83-017300] 04 p0536 N84-13528
Aethalometer: An instrument for the real-time measurement of optical absorption by aerosol particles
[DE84-000400] 04 p0538 N84-13538
Measuring the neutron energy spectrum of laser-fusion targets with CR-39
[DE84-001422] 04 p0539 N84-13543
Large laser system facility design
[DE84-000159] 04 p0540 N84-13553
Simulation of a high-gain tapered-wiggler free-electron laser
[DE84-001237] 04 p0540 N84-13557
Inertial effects in laser-drive ablation
[DE84-000071] 04 p0542 N84-13566
The Nova laser assurance-management system
[DE83-018188] 04 p0542 N84-13568
A programmable controller with overcurrent latch for constant primary peak current in capacitor-charging FET switcher for Nova
[DE83-018184] 04 p0542 N84-13569
Modelling the behavior of materials
[DE84-000154] 04 p0545 N84-13588
Flywheel rotor and containment technology development, FY83
[DE83-017615] 04 p0545 N84-13589
Penetrant and magnetic-particle inspection for material integrity
[DE83-017830] 04 p0546 N84-13600
Microwave nondestructive evaluation of composites
[DE84-001777] 04 p0547 N84-13601
Kriging of geological and physical parameters from Yucca Flat, NTS
[DE83-018227] 04 p0550 N84-13625
Atmospheric dispersion of ammonia: An ammonia fog model
[DE84-000165] 04 p0560 N84-13689
Commentary on the recent CO2-climate controversy
[DE83-016367] 04 p0565 N84-13722
Communicating between the IBM personal computer and the Wang word-processing system
[DE83-017987] 04 p0578 N84-13809
Vectorizing and machine-spanning techniques
[DE84-000469] 04 p0578 N84-13810
FACET: A radiation-view-factor computer code for axisymmetric, 2D planar and 3D geometries with shadowing
[DE84-000359] 04 p0581 N84-13835
SISAL: Streams and Iteration in a Single-Assignment Language. Language reference manual, version 1.1
[DE83-016576] 04 p0582 N84-13843
T-HEMP3D user manual
[DE84-000526] 04 p0582 N84-13845
Overview of digital-image processing
[DE84-000156] 04 p0583 N84-13848
Computer implementation, accuracy, and timing of radiation view-factor algorithms
[DE83-017618] 04 p0583 N84-13849
Detailed introduction and reference manual for: The network-shared-memory distributed database system
[DE83-017547] 04 p0585 N84-13865
Introduction to flexible manufacturing systems: Their applications, classification, and opportunities
[DE83-017373] 04 p0586 N84-13868
Application of the implicit Fourier-expansion method to the calculation of three-dimension equilibria by the iterative method
[DE83-017621] 04 p0590 N84-13902
Analytical studies of advanced high-field designs: 20-Tesla large-bore superconducting magnets
[DE83-017591] 04 p0594 N84-13918
Beam dynamics in the Advanced Test Accelerator (ATA)
[DE84-001421] 04 p0598 N84-13947
Calculation of ion charge-state distribution in ECR ion sources
[DE84-000517] 04 p0600 N84-13957
Interaction of a stream of dielectric spheres in an electric field in a high vacuum
[DE83-013695] 04 p0600 N84-13958
Scientific program and abstracts
[DE83-017620] 04 p0601 N84-13967
Resonance-resonance coupling in dissociative electron attachment
[DE84-001767] 04 p0602 N84-13972
Fiber optics temperature and pressure probe
[DE84-001785] 04 p0605 N84-13990
Instrumentation for remote sensing over fiber optics
[DE84-001788] 04 p0605 N84-13991
Deposition of cesium iodide on papylene
[DE83-017839] 04 p0605 N84-13992
Precision support of annular optics
[DE83-017473] 04 p0605 N84-13993
Construction and operational experience of the tandem mirror experiment-upgrade (TMX-U)
[DE83-018181] 04 p0605 N84-13995
Evolution of the mirror machine
[DE83-016942] 04 p0607 N84-14009
TMX-U diagnostic system
[DE83-017834] 04 p0608 N84-14015
Infant-mortality testing of high-energy-density capacitors used on Nova
[DE83-018027] 04 p0610 N84-14028
Simulation of shock-induced energy flux in molecular solids
[DE84-001157] 04 p0613 N84-14047
TIS: An intelligent gateway computer for information and modeling networks. Overview
[DE83-017988] 04 p0616 N84-14067
Physics of the synchrotron model of cosmic gamma-ray bursts
[DE84-000917] 04 p0622 N84-14104
Theory of optical flashes
[DE84-001450] 04 p0622 N84-14106
Metallurgical explanation of double magnetic transitions and allied phenomena in AuFe alloys
[DE84-002024] 05 p0657 N84-14317
Fabrication of SiC, Si3N4 and AlN combustion synthesis
[DE84-001766] 05 p0660 N84-14339
Compliance check on Japax electrical-discharge-wire machine
[DE84-001430] 05 p0676 N84-14447
High gain free electron laser at ETA
[DE84-002001] 05 p0686 N84-14512
Relevance of rock mechanics to gun propellants
[DE84-002010] 05 p0704 N84-14620
Techniques to extend ozonesonde temperature data to the mesopause
[DE84-002749] 05 p0705 N84-14623
Mathematical and physical scaling of triggered lightning
[DE84-002480] 05 p0709 N84-14646
Localized hole effects in inner-shell excitation
[DE84-001401] 05 p0755 N84-14956
Radiation transport in numerical astrophysics
[DE84-002011] 05 p0763 N84-15008
Chemical kinetics modeling of engine knock: Preliminary results
[DE84-001236] 06 p0802 N84-15226
Yield stress of type 21-6-9 stainless steel over a wide range of strain rate (10(-5) to 10-4 s(-1)) and temperature
[DE83-017159] 06 p0807 N84-15259

Numerical electromagnetics code. Method of moments. User's guide supplement for NEC-3 for modeling buried wires
[DE84-002195] 06 p0825 N84-15382

Battery lifetime prediction by pattern recognition application to lead-acid battery life-cycling test data
[AD-A133281] 06 p0829 N84-15397

Numerical solution to the steady state equation of transfer in azimuthally symmetric geometries
[DE84-001781] 06 p0845 N84-15509

Flywheel energy-management systems for improving fuel economy of motor vehicles
[DE84-002340] 06 p0874 N84-15688

Response to W. W. Kellogg carbon dioxide and climatic change: Implications for mankind's future
[DE84-002723] 06 p0882 N84-15737

Efficient large-scale finite-element computations in a CRAY environment
[DE83-014946] 06 p0896 N84-15818

The 2nd European Conference on Computer Aided Design in Small and Medium-Size Industries
[AD-A129389] 06 p0897 N84-15821

Use of 3D graphics in scientific data analysis
[DE84-000911] 06 p0898 N84-15831

Novette pulse-power-system description
[DE83-018185] 06 p0918 N84-15968

Problems in astrophysical radiation hydrodynamics
[DE84-000185] 06 p0939 N84-16102

Rail accelerator development for ultra-high pressure research
[DE84-002452] 07 p0960 N84-16223

Raman spectroscopy of shocked water
[DE84-002468] 07 p0972 N84-16295

Pure rotational spectroscopy of SO2 using fix line far-infrared lasers
[DE84-001427] 07 p0972 N84-16301

Application of kinetic fracture mechanics to life prediction for polymeric materials
[DE84-003002] 07 p0979 N84-16347

Time resolved measurement and analysis of the response of confined explosives to heat, impact and penetration
[DE84-002781] 07 p0981 N84-16358

Modeling and testing for second breakdown phenomena
[DE84-002470] 07 p0994 N84-16444

Maximum entropy methods in electromagnetic/geophysical/ultrasonic imaging
[DE84-002793] 07 p0994 N84-16445

Design and construction of large capacitor banks
[DE84-002790] 07 p0998 N84-16472

Theory of pulse propagation in fluid saturated porous layers
[DE84-002714] 07 p1003 N84-16503

Optimized rotary flux compressors for powering laser flashlamps
[DE84-002794] 07 p1010 N84-16555

Silicon switch development for optical pulse generation in fusion lasers at Lawrence Livermore National Laboratory
[DE84-002798] 07 p1011 N84-16556

Investigations of the mechanical behavior of spot welded joints by means of acoustic emission analysis
[DE84-003041] 07 p1014 N84-16574

Modeling SO2 effects on the productivity and growth of plants
[DE83-010259] 07 p1027 N84-16655

Some predictions on the performance of future supercomputers for simulation and control
[DE84-002785] 07 p1053 N84-16816

Large scale computations
[DE84-002763] 07 p1055 N84-16836

Software for computer controlled X-ray photoelectron and Auger Spectroscopy
[DE84-003912] 07 p1056 N84-16837

H Division: Materials physics
[DE84-001083] 07 p1068 N84-16939

Time-resolved beam-profile measurements on the Experimental Test Accelerator (ETA)
[DE84-002453] 07 p1072 N84-16969

Concept for a volume-type tandem three-chamber negative hydrogen ion source
[DE84-003338] 07 p1073 N84-16971

LBL program of 1 meter long, 50 mm diameter bore, dipoles with fields greater than 8 tesla
[DE84-002902] 07 p1073 N84-16973

Magnetic mirror fusion power systems
[DE84-002799] 07 p1077 N84-17005

Gas box control system for tandem mirror experiment upgrade
[DE84-003245] 07 p1078 N84-17008

Review of the tandem mirror experiment-upgrade (TMX-U) machine-parameter-instrumentation system
[DE84-003243] 07 p1078 N84-17009

Design and fabrication of circular and rectangular components for electron-cyclotron-resonant heating of tandem mirror experiment-upgrade
[DE84-003244] 07 p1078 N84-17010

Planar channeling radiation from relativistic positrons and electrons in LiF
[DE84-002800] 07 p1081 N84-17033

Nucleosynthesis in stellar explosions
[DE84-002787] 07 p1090 N84-17087

Dynamic consolidation of ceramic powders: Practicalities, problems, and prospects
[DE84-003744] 08 p1138 N84-17404

Inexpensive solid-state trigger unit for thyratrons
[DE84-001424] 08 p1152 N84-17501

Streak cameras for soft X-ray and optical radiation
[DE84-002780] 08 p1162 N84-17564

Approach to real-time holography
[DE84-002779] 08 p1162 N84-17565

Polarizing holographic reflector for Electron Cyclotron Resonant Heating (ECRH) on the Tandem Mirror Experiment Upgrade (TMX-U)
[DE84-003740] 08 p1162 N84-17568

Radially resolved simulation of a high-gain free electron laser amplifier
[DE84-003751] 08 p1165 N84-17585

Software maintenance on FORTRAN libraries at a large computer installation
[DE84-002008] 08 p1213 N84-17914

Use of the Bernstein form to derive sufficient conditions for shape preserving piecewise polynomial interpolation
[DE84-003914] 08 p1221 N84-17972

Matrix-free methods in the solution of stiff systems of ODE's
[DE84-003361] 08 p1221 N84-17974

Ultra-high-field superconducting magnets
[DE84-003913] 08 p1226 N84-18012

De-excitation and equipartition in H2-surface collisions
[DE84-003008] 08 p1229 N84-18031

Comparisons of hydrodynamic beam models with kinetic treatments
[DE84-003242] 08 p1233 N84-18057

Thresholds of Raman backscatter: Effects of collisions and Landau damping
[DE84-003736] 08 p1233 N84-18060

Circular waveguide systems for electron-cyclotron-resonant heating of the tandem mirror experiment-upgrade
[DE84-003739] 08 p1233 N84-18062

Insulator materials in high power lasers for inertial fusion: Present and future
[DE84-003738] 08 p1234 N84-18063

Maximum entropy reconstruction of a volume anomaly from pulse scatter data
[DE84-002463] 08 p1237 N84-18084

Assessment methodology for the A-7E: Scale model coupling experiments
[DE84-003139] 09 p1256 N84-18199

Equations of state of PBX-9404, LX-07, and RX-26-AF detonation products at pressures above detonation pressure
[DE84-002465] 09 p1290 N84-18424

Optimized baffle and aperture placement in neutral beamlines
[DE84-003746] 09 p1388 N84-19062

Microwave interferometer using 94-GHz solid-state sources
[DE84-003741] 09 p1392 N84-19090

Computer assessment of electromagnetic means of detecting approaching cruise missile
[DE84-005115] 10 p1482 N84-19687

Development of soft X-ray streak cameras at Lawrence Livermore National Laboratory
[DE83-015841] 10 p1499 N84-19797

Flow visualizations, velocity measurements, and surface convection measurements in simulated 20.8-cm Nova box amplifier cavities
[DE84-004354] 10 p1501 N84-19812

Introduction to GEMINI
[DE84-005058] 10 p1564 N84-20248

BIMOND: Monotone bivariate interpolation code (preliminary documentation)
[DE84-004159] 10 p1565 N84-20252

Three-dimensional graphics for scientific data display and analysis
[DE84-004075] 10 p1565 N84-20253

Computational physics program at National MFE Computer Center
[DE84-004602] 10 p1574 N84-20318

Application of He-II technology to the production of ultrahigh-field superconducting magnets
[DE84-004853] 10 p1575 N84-20319

High frequency acoustic instabilities in heated fluids
[DE84-005114] 10 p1575 N84-20324

Reconnections in Spheromak formation and sustainment
[DE84-004157] 10 p1586 N84-20398

Applications for fission product data to problems in stellar nucleosynthesis
[DE84-004819] 10 p1596 N84-20458

Vacuum outgassing of various materials
[DE84-004812] 11 p1626 N84-20644

Dynamic compressive strain rate tests on 2 types of beryllium
[DE84-006126] 11 p1635 N84-20691

Discussion of moment method codes with emphasis on aperture coupling
[DE84-005116] 11 p1644 N84-20751

Physical modeling of EM propagation over nonhomogeneous terrain
[DE84-000178] 11 p1644 N84-20752

Progress in research in electronics engineering: Technical review
[DE84-006389] 11 p1647 N84-20772

Numerical simulations of compliant material response to turbulent flow
[DE84-004365] 11 p1654 N84-20800

A high accuracy temperature measurement on a diagnostic canister for the Nevada test site
[AD-P002678] 11 p1658 N84-20815

An extended range pendulous velocity gage
[AD-P002683] 11 p1658 N84-20820

Pretreatment of Kapton-coated cable for epoxy adhesion
[DE84-006265] 11 p1661 N84-20837

Mechanical construction of the 22 Nova laser
[DE84-005432] 11 p1663 N84-20855

Flywheel rotor and containment technology development
[DE84-005742] 11 p1665 N84-20864

Frequency domain approach to structural analysis
[DE84-005110] 11 p1669 N84-20889

Alterant geophysical tomography
[DE84-004794] 11 p1671 N84-20907

Preliminary report on the global transport model GRANTOUR
[DE84-005596] 11 p1676 N84-20936

Statistical analysis of high SCE frequency cells in human lymphocytes
[DE84-005433] 11 p1693 N84-21042

Graphics specification for graphical requirements for computer-aided control system design
[DE84-004367] 11 p1708 N84-21135

DIGLIB for HP-1000 computers
[DE84-004741] 11 p1710 N84-21147

Generalization of the numerical Schwarz algorithm
[DE84-003735] 11 p1716 N84-21191

Chemical treatment of silicate glasses for producing anti-reflection surfaces
[DE84-005865] 11 p1732 N84-21299

NOVA Laser facility for inertial confinement fusion
[DE84-004190] 11 p1737 N84-21332

Tandem mirror fusion research
[DE84-005133] 11 p1738 N84-21339

Review of hydrogen isotope permeability through materials
[DE84-007382] 12 p1794 N84-21696

Ring tensile test of modified Halthane 88-2
[DE84-005891] 12 p1802 N84-21750

Modeling antennas near to and penetrating a lossy interface
[DE84-004785] 12 p1808 N84-21786

Preliminary experiments with a carbon fiber tuft cathode
[DE84-006296] 12 p1813 N84-21820

Turbulent boundary layer thermochemical attack on coated walls
[DE84-005892] 12 p1817 N84-21843

Extended-range pendulous velocity gage
[DE83-012749] 12 p1819 N84-21858

Mechanical engineering research program
[DE84-001085] 12 p1823 N84-21884

Finite deformation of viscoelastic disks
[DE84-002795] 12 p1827 N84-21908

Comparison of a simplified version of TRACKER with an analytic solution to a model ray tracing problem
[DE84-007091] 12 p1848 N84-22044

Use of shape-preserving interpolation methods in surface modeling 12 p1870 N84-22183

PICTURE: An interactive tool for creating visual aids. Reference manual, version 2.0
[DE84-007447] 12 p1884 N84-22279

Use of shape-preserving interpolation methods in surface modeling
[DE83-012708] 12 p1895 N84-22343

Large aperture optical switching devices
[DE84-005126] 12 p1908 N84-22433

Richtmyer-Meshkov instabilities in stratified fluids
[DE84-005738] 12 p1911 N84-22449

Environment for scientific laboratories
[DE83-013648] 12 p1919 N84-22504

Wang OIS glossary package for reformatting documents telecommunicated to the OIS system
[DE84-005113] 12 p1920 N84-22507

Matrix-dominated time-dependent deformation and damage of graphite/epoxy composite experimental data under creep and recovery
[AD-A139064] 13 p1954 N84-22704

Hydrolytic degradation of Kevlar 49 fibers
[DE84-004158] 13 p1954 N84-22705

Modes of deformation and failure of Kevlar 49 fibers and composites
[DE84-004162] 13 p1954 N84-22706

Review of free electron laser theory and experiments
[DE84-007232] 13 p1996 N84-22954

Measurement of melt line penetration and heat flux during arc spot welding
[DE84-002013] 13 p1997 N84-22962

Development of high strength braze joints in beryllium
[DE84-007243] 13 p1998 N84-22964

Role of abrasion in the optical polishing of metals and glass
[DE84-005737] 13 p2043 N84-23259

Novolac as stain protective film during optical glass fabrication
[DE84-005735] 13 p2044 N84-23260

Aluminum-air research and development program. Summary report for FY 1982
[DE84-008360] 14 p2142 N84-23848

L-Division streak camera
[DE84-007780] 14 p2149 N84-23872

The 1982 laser program
[DE84-006476] 14 p2151 N84-23887

OMEGA documentation
[DE84-007014] 14 p2206 N84-24239

Advances in transmission X-ray optics
[DE84-007235] 14 p2225 N84-24354

F-14 scale model measurements. Part 1: External response
[DE84-008201] 15 p2258 N84-24562

The yield stress of type 21-6-9 stainless steel over a wide range of strain rate (10(-5) to 10(4) s(-1)) and temperature
[DE84-000914] 15 p2298 N84-24793

H Division materials physics
[DE84-007789] 15 p2304 N84-24826

Simulation of shock-induced energy flux in molecular solids, revision 1
[DE84-008331] 15 p2304 N84-24827

Fundamental mode rectangular waveguide system for Electron-Cyclotron Resonant Heating (ECRH) for tandem mirror experiment-upgrade (TMX-U)
[DE84-009085] 15 p2322 N84-24940

Ultrafast gated intensifier design for laser fusion X-ray framing applications
[DE84-007761] 15 p2339 N84-25038

Ultrasonic machining (impact grinding)
[DE84-007783] 15 p2344 N84-25069

Spherical lapping velocities
[DE84-005734] 15 p2344 N84-25070

Aluminum-air power cell research and development
[DE84-008328] 15 p2365 N84-25188

Special or general purpose end-to-end transport mechaniems in distributed systems: One view
[DE84-008297] 15 p2395 N84-25367

Requirements for migration of NSSD code systems from LTSS to NLTSS
[DE84-009533] 15 p2395 N84-25368

Display units for online passage retrieval: A comparative analysis
[DE84-001004] 15 p2395 N84-25369

MOLAG: A method of lines adaptive grid interface for nonlinear partial differential equations
[DE84-009161] 15 p2399 N84-25396

Technology information system: Transcript of typical demonstration
[DE84-009082] 15 p2418 N84-25523

Estimate of the consumer cost of aluminum fuel for electric vehicles
[DE84-008327] 15 p2421 N84-25539

Applying molecular dynamics to fracture
[AD-P003104] 16 p2467 N84-25809

Evaluating the response of complex systems to environmental threats: The Sigma 2 method
[UCRL-53399] 16 p2551 N84-26366

Development of a multidetector deflection measurement system
[DE84-009703] 18 p2847 N84-28078

Damage thresholds of fused silica, plastics and KDP crystals measured with 0.6-ns 355-nm pulses
[DE84-009534] 18 p2847 N84-28080

Phenomenology and modeling of heavy gas dispersion
[DE84-008800] 18 p2878 N84-28272

The approximation theory for the p-version of the finite element method, part 2
[AD-A140952] 18 p2925 N84-28550

Rapidly convergent algorithms for 3-D tandem and stellarator equilibria in the paraxial approximation
[DE84-009688] 18 p2933 N84-28603

Matrix-dominated time-dependent deformation and damage of graphite epoxy composite -- experimental data under multiple-step relaxation
[AD-A141697] 19 p2986 N84-28920

Applications of Riemann-Hilbert problem techniques to electromagnetic coupling through apertures
[DE84-009532] 19 p3009 N84-29073

Edge blurring in stacked X-ray film screen combinations
[DE84-009658] 19 p3027 N84-29200

New technique to improve the accuracy of albedo neutron dosimeter evaluations
[DE84-002458] 19 p3027 N84-29201

High image quality sub 100 picosecond gated framing camera development
[DE84-008326] 19 p3028 N84-29203

Computer design and optimization of the active rotary flux compressor
[DE84-010089] 19 p3030 N84-29215

Laser damage in porous-silica antireflection films
[DE84-009535] 19 p3030 N84-29216

DOE workshop on computer-aided engineering: Abstracts
[DE84-001064] 19 p3079 N84-29538

NLTSS overview
[DE84-008536] 19 p3080 N84-29546

Line intensities for diagnosing laser-produced plasmas
[DE84-009857] 19 p3106 N84-29738

Microwave measurement test results of circular waveguide components for Electron Cyclotron Resonant Heating (ECRH) of the Tandem Mirror Experiment-Upgrade (TMX-U)
[DE84-009538] 19 p3108 N84-29746

Disassembly of isochorically heated liquids
[DE84-009536] 19 p3108 N84-29747

Recent results of studies of acceleration of compact toroids
[DE84-008330] 19 p3109 N84-29752

Definition of the concentration gradient above flammable liquids
[DE84-008296] 20 p3149 N84-29996

Analysis of localized microstructural changes in dynamically consolidated metal powders
[DE84-006298] 20 p3154 N84-30026

Corrosion of 5083 aluminum by aqueous sodium sulfate
[DE84-012033] 20 p3156 N84-30045

The evaporation and gaseous dispersion of large-scale releases of nitrogen tetroxide
[AD-A142079] 20 p3166 N84-30104

High performance Extrusion Cast Explosives (ECX)
[DE84-008244] 20 p3166 N84-30107

Design of a safety monitor system for high explosives machining
[DE84-010101] 20 p3168 N84-30113

Dynamic powder compaction
[DE84-006133] 20 p3170 N84-30132

Computer-generated movie on the short pulse electromagnetic behavior of wire objects
[DE84-012032] 20 p3175 N84-30162

Development of hydrocyclones for aluminum/air battery applications
[DE84-011403] 20 p3179 N84-30197

Application of molecular dynamics to macroscopic particles
[DE84-011066] 20 p3186 N84-30244

TOPAZ: A finite element heat conduction code for analyzing 2-D solids
[DE84-010676] 20 p3187 N84-30247

Photoemissive materials for 0.35 Micron laser fiducials in X-ray streak cameras
[DE84-008348] 20 p3194 N84-30283

Nova laser alignment control system
[DE84-010992] 20 p3194 N84-30288

Modeling chemical kinetic aspects of engine knock
[DE84-009874] 20 p3198 N84-30312

Reliability analysis for stiff versus flexible piping
[DE84-008325] 20 p3203 N84-30344

Response to W. W. Kellogg's Carbon Dioxide and Climatic Change
[DE84-010986] 20 p3241 N84-30577

An assessment of methods of geological basin analysis for application to the Uinta and Piceance Basins
[DE84-012369] 20 p3242 N84-30581

Chemical evolution of a high-level magma system: The Black Mountain Volcanic Center, Southern Nevada
[DE84-013321] 20 p3243 N84-30587

Natural phenomena hazards modeling project: Extreme wind-tornado hazard models for Department of Energy sites
[DE84-011157] 20 p3247 N84-30608

Review of the Third Biennial Conference on Real-Time Computer Applications in Nuclear and Particle Physics
[DE84-002457] 20 p3266 N84-30720

Supercomputers: The next ten years. A user's view
[DE84-011072] 20 p3267 N84-30727

Communicating between the IBM personal computer and the Wang word processing system
[DE84-010423] 20 p3267 N84-30729

An operating system and memory switch for the S-1 computer
[DE84-013094] 20 p3267 N84-30731

The S-1 Mark IIA supercomputer
[DE84-012374] 20 p3267 N84-30732

Bond graph time simulations using extracted modal parameters from the Nova spaceframe
[DE84-010918] 20 p3273 N84-30779

Linear systems analysis program user's manual, version 2.2 (VAX/VMS)
[DE84-012230] 20 p3275 N84-30789

Syntax and semantics of a LINCS control monologue
[DE84-011399] 20 p3277 N84-30805

Serial link protocol design: A critique of the X.25 standard, level 2
[DE84-002724] 20 p3278 N84-30806

Report on the experience with the Supervisory Control and Diagnostics System (SCDS) of MFTF-B
[DE84-012599] 20 p3278 N84-30807

Linear systems analysis program: Programmer's manual, version 2.2 (VAX/VMS)
[DE84-010953] 20 p3282 N84-30835

Observed current enhancement with propagation of the ETA electron beam in air
[DE84-010558] 20 p3293 N84-30909

Calculation of molecular final states and their effect on a precision neutrino mass experiment
[DE84-011071] 20 p3295 N84-30921

Impurity characteristics of TMX-U
[DE84-012413] 20 p3297 N84-30932

Microstability theory for distributions separable in energy and pitch angle
[DE84-009683] 20 p3305 N84-30991

Defect production efficiencies in thermal neutron irradiated copper and molybdenum
[DE84-010993] 20 p3309 N84-31018

Fractional quantization of the Hall effect
[DE84-008894] 20 p3310 N84-31023

Cosmic bombardment
[DE84-011402] 20 p3319 N84-31071

Modal parameter estimation via shaker versus speaker excitation
[DE84-012897] 21 p3345 N84-31223

Quality-assurance tests of five Y-12 Kevlar-49 spools used to fabricate strands and reliability specimens for stress-rupture tests
[DE84-012373] 21 p3357 N84-31295

Analysis of moisture in solids: A review of the last decade or from Pande to the present
[DE84-011166] 21 p3362 N84-31326

Simulations of erosion/corrosion surface chemical reactions with a laser beam
[AD-A143001] 21 p3366 N84-31354

Fundamental mechanisms of multi-phase flow erosion/corrosion of solid surfaces
[AD-A143041] 21 p3366 N84-31355

Metal finishing and vacuum processes groups
[DE84-011046] 21 p3367 N84-31358

Engineering properties of some coatings
[DE84-002715] 21 p3371 N84-31390

Viscoelastic and aging characteristics of polymers
[DE84-012689] 21 p3371 N84-31393

Dynamic overstresses in fibrous polymeric materials
[DE84-012605] 21 p3372 N84-31394

Dynamic characteristic of intense short microwave propagation in an atmosphere
[DE84-002788] 21 p3387 N84-31496

The behavior of very large short pulse antennas
[DE84-012372] 21 p3388 N84-31500

Normal zone detectors for a large number of inductively coupled coils, revision 1
[DE84-011053] 21 p3392 N84-31526

Switching transients in a superconducting coil
[DE84-012592] 21 p3393 N84-31532

Alternative power supply and dump resistor connections for similar, mutually coupled, superconducting coils
[DE84-012602] 21 p3393 N84-31534

Another attempt to overcome the bent element blues
[DE84-007785] 21 p3400 N84-31571

Pressure effects on wall heat transfer during flame quenching
[DE84-012265] 21 p3401 N84-31575

Computer codes for fluid-structure interactions
[DE84-011068] 21 p3401 N84-31578

Development of long-length wire filament strain gages
[DE84-011543] 21 p3406 N84-31605

Soft X-ray laser experiments at Norvette Laser Facility
[DE84-012594] 21 p3410 N84-31627

Diagnostics for an XUV/soft X-ray laser
[DE84-012593] 21 p3410 N84-31628
Development of a multidetector deflection measurement system
[DE84-013580] 21 p3410 N84-31631
Thinking big
[DE84-007412] 21 p3462 N84-31951
DEC LSI-11/HP9895A software
[DE84-012412] 21 p3462 N84-31952
DYNA3D user's manual. Nonlinear dynamic analysis of solids in three dimensions, revision 1
[DE84-012828] 21 p3466 N84-31979
Scattering optical activity of chiral molecules: Circular intensity differential scattering and circular differential imaging
[DE84-010712] 21 p3493 N84-32137
Electromagnetic dissociation of radioactive heavy-ion beams
[DE84-012266] 21 p3495 N84-32146
Protective plasma envelope
[DE84-013316] 21 p3502 N84-32194
Influence of diluents and inhibitors on detonations
[DE84-006300] 22 p3548 N84-32483
A comprehensive chemical kinetic reaction mechanism for the oxidation of n-butane
[DE84-005739] 22 p3549 N84-32487
Cure reactions, network structure and mechanical response of diaminodiphenyl sulfone cured tetraglycidyl 4,4'diaminodiphenyl methane
[DE84-012607] 22 p3561 N84-32548
Focusing twist reflector for electron-cyclotron resonance heating in the Tandem Mirror Experiment-upgrade
[DE84-012954] 22 p3578 N84-32663
High-power RF compressor
[DE84-013118] 22 p3578 N84-32664
Mechanisms of electrical conductivity in olivine
[DE83-017313] 22 p3588 N84-32723
Large aperture electro-optical switch
[DE84-013089] 22 p3588 N84-32728
Simulation of the Kelvin-Helmholtz instability of a supersonic slip surface with the Piecewise-Parabolic Method (PPM)
[DE84-013219] 22 p3595 N84-32768
Strategies of design, development and activation of the Nova control system
[DE84-013075] 22 p3600 N84-32801
Wafer-scale laser pantography. Part 6: Direct-write interconnection of VLSI gate arrays
[DE84-012676] 22 p3601 N84-32815
Dynamic testing of NOVA laser structural systems. The north side of Spaceframe Tower
[DE84-014830] 22 p3602 N84-32816
Experimental and modeling study of engine knock
[DE84-006134] 22 p3606 N84-32844
Design of a high-performance slide and drive system for a small precision machining research lathe
[DE84-011059] 22 p3606 N84-32845
Experimental and model transport and diffusion studies in complex terrain with emphasis on tracer studies
[DE84-013076] 22 p3626 N84-32975
An online directory of databases for material properties
[DE84-013210] 22 p3643 N84-33099
Physics issues in mirror and tandem mirror systems
[DE84-013837] 22 p3660 N84-33201
Automated helium gas metering system
[DE84-015083] 23 p3751 N84-33779

CALIFORNIA UNIV., LOS ANGELES.

Project scattering of elastic waves
[DE83-013574] 01 p0068 N84-10444
Issues in software maintenance
[AD-A130622] 01 p0121 N84-10786
Optimal control of robotic manipulators
01 p0127 N84-10833
Mechanism switching and trapping of Triplet-Triplet energy transfer in an orientationally disordered molecular solid
[AD-A130660] 01 p0142 N84-10931
Finite-element approach to guided wave problems
[AD-A131623] 02 p0213 N84-11396
The melting spherical ice particles falling at terminal velocity in air: An experimental and theoretical study
02 p0252 N84-11647
Solutions of a 4th order differential equation describing mode conversion in a magnetized plasma
[AD-A131600] 02 p0281 N84-11840
Characterization of infrared optical properties of transparent materials
[AD-A131554] 02 p0294 N84-11930
Time-resolved laser studies on the energy transfer and the configurational changes in bacteriohodopsin
[DE83-015708] 03 p0382 N84-12487
Solar cycle variations of the solar wind
03 p0469 N84-13089
Multiple spacecraft observations of interplanetary shocks: Characteristics of the upstream ULF turbulence
03 p0470 N84-13097
Characterization of carbon fiber composites using acousto-ultrasonic techniques
[AD-A132305] 04 p0506 N84-13317
Optimization of structures subjected to periodic loads
04 p0547 N84-13605
Observations and theory of irregularities of middle latitude sporadic E layers 04 p0562 N84-13703
Positive biharmonic functions
04 p0575 N84-13786
Nonlinear acoustics in a dispersive continuum: Random waves, radiation pressure, and quantum noise
04 p0594 N84-13920
Ponderomotive effects in nonneutral plasmas
[AD-A132109] 04 p0606 N84-13998
Active control of large flexible space structures
05 p0644 N84-14235
A large and small signal charge storage model for an enhancement mode M.O.S. field effect transistor
05 p0672 N84-14418
An experimental study of the response of a nearly isotropic grid turbulence to a spectrally local disturbance and an investigation of the coherent structures associated with a turbulent spot in a laminar boundary layer
05 p0678 N84-14459
Adaptive noise cancellation in neuromagnetic measurement systems
[AD-A132547] 05 p0684 N84-14494
Communications magnetospheric substorms
[AD-A133896] 05 p0703 N84-14611
Baroclinic and barotropic instability with cumulus heating and tropical cyclogenesis 05 p0710 N84-14656
Neuromagnetic localization of two components of the transient visual evoked response to patterned stimulation
[AD-A132546] 05 p0712 N84-14667
Magnetoencephalography
[AD-A132496] 05 p0712 N84-14668
Transport and radiative processes in the Io plasma torus 05 p0749 N84-14916
The preparation and properties of porous glass-polymer composite 06 p0808 N84-15261
Advanced teleprocessing systems
[AD-A133525] 06 p0824 N84-15375
Advanced teleprocessing systems
[AD-A133554] 06 p0825 N84-15377
Advanced teleprocessing systems
[AD-A133555] 06 p0825 N84-15378
Bifurcations in nonlinear problems of hydrodynamic instability of plane parallel shear flows
06 p0831 N84-15411
Neuronal adaptive mechanisms underlying intelligent information processing
[AD-A133694] 06 p0889 N84-15776
On the relationship between collisionless shock structure and energetic particle acceleration
[NASA-CR-175328] 06 p0910 N84-15909
The performance of 16000 wire mini-drift MWPC system 06 p0912 N84-15922
The harmonic structure of PC 3-4 magnetic pulsations at geosynchronous orbit and its relation to the solar wind 06 p0940 N84-16106
Use of shear lag for composite microstress analysis - rectangular array
[AD-A134165] 07 p0967 N84-16267
Size effect and strength variability of unidirectional composites
[AD-A134171] 07 p0967 N84-16268
Use of shear lag for composite microstress analysis - linear array
[AD-A134174] 07 p0967 N84-16269
Geologic application of spaceborne radars
07 p0987 N84-16391
Silicon millimeter wave devices by MBE (Molecular Beam Epitaxy)
[AD-A134419] 07 p1080 N84-17025
Vapor-liquid phase separator studies
[NASA-CR-166545] 08 p1156 N84-17527
Performance evaluation and control of distributed computer communication networks
[AD-A135121] 08 p1215 N84-17928
Fusion reactors: Physics and technology
[DE83-017148] 08 p1232 N84-18055
Research on modeling of FED/INTOR radio-frequency heating and studies of FED/INTOR impurity-control mechanisms
[DE83-016756] 08 p1233 N84-18056
High pressure cosmochemistry applied to major planetary interiors: Experimental studies
[NASA-CR-173278] 08 p1245 N84-18138
UCLA demodulation engine
[AD-A135912] 09 p1309 N84-18556
Ohmic heating of the polar f-region by HF (High Frequency) pulse
[AD-A135946] 09 p1345 N84-18789
Convergence of generalized MUSCL schemes
[NASA-CR-173356] 09 p1372 N84-18959
Research on boundary feedback and control theories, 1978 - 1983
[AD-A136531] 09 p1376 N84-18987
Scientific program in planetary atmospheric studies
[NASA-CR-175381] 09 p1416 N84-19263
Harmonizable filtering and sampling of time series
[AD-A137517] 10 p1570 N84-20285
Advanced teleprocessing systems
[AD-A137944] 11 p1644 N84-20747
Surfatron laser-plasma accelerator: Prospects and limitations
[DE84-005497] 11 p1663 N84-20854
Rates and mechanisms of energy dissipation and the structure of molecular solids
[AD-A137714] 11 p1730 N84-21283
Prospects of the surfatron laser plasma accelerator
[DE84-005463] 11 p1738 N84-21336
Transport behavior of multivalent beta aluminas
11 p1743 N84-21370
Quenched magnetite in cretaceous-tertiary boundary microtektite-like spheroid 11 p1755 N84-21459
Formation of Meteoritic chonrules by lightning
11 p1756 N84-21462
Ceramic-to-metal bonding for pressure transducers
[NASA-CR-173500] 13 p1963 N84-22753
Venus banded terrain: Evaluation of tectonic models for the origin of banding 13 p2077 N84-23458
A study of aeroelastic and structural dynamic effects in multi-rotor systems with application to hybrid heavy lift vehicles
[NASA-CR-173505] 14 p2104 N84-23620
Riemann solvers, the entropy condition and high resolution difference approximations
[AD-P002945] 14 p2198 N84-24185
Growth rates of parametric instabilities driven by two pumps
[AD-A139463] 14 p2229 N84-24364
Dataflow computing approach in high-speed digital simulation
[NASA-CR-173552] 15 p2389 N84-25336
Secure reliable processing systems
[AD-A140150] 16 p2542 N84-26316
Patterns of magnetic field merging sites on the magnetopause 16 p2572 N84-26511
Characteristics of the magnetospheric source of interplanetary energetic particles
16 p2573 N84-26512
Magnetopause merging site asymmetries
16 p2573 N84-26513
Magnetic field draping against the dayside magnetopause 16 p2573 N84-26514
The magnetic field of Mars: Implications from gasdynamics modeling 16 p2573 N84-26515
Helium effects on the swelling of steels
[DE84-008989] 18 p2815 N84-27871
Wavelength scaling of the two plasmon decay and stimulated Raman scattering instabilities
[DE84-008934] 18 p2847 N84-28077
Plasma Physics on auroral field lines: The formation of ion conic distributions
[NASA-CR-173683] 18 p2932 N84-28595
Two-dimensional splines
[NASA-CR-173804] 19 p3082 N84-29561
Dynamical properties of disordered systems
[AD-A141597] 19 p3085 N84-29580
Stabilization studies
[AD-A142644] 20 p3281 N84-30832
Magnetic fusion energy plasma interactive and high heat flux components. Volume 1: Technical assessment of the critical issues and problem areas in the plasma materials interaction field
[DE84-011527] 20 p3302 N84-30969
Studies of CO2 laser interactions with plasma
[DE84-012485] 20 p3307 N84-31004
Aeroelastic effects in multi-rotor vehicles with application to a hybrid heavy lift system. Part 1: Formulation of equations of motion
[NASA-CR-3822] 21 p3344 N84-31216
Single and multiple fiber models for fracture of fibrous composites 21 p3356 N84-31286
Transport behavior of multivalent beta aluminas
[AD-A142968] 21 p3370 N84-31382
The application of convolutional codes to continuous phase modulated communication channels
21 p3381 N84-31457
The new algorithm for symbolic network analysis
21 p3390 N84-31509
Nd-3+ Beta prime prime alumina platelet laser
[AD-A142797] 21 p3409 N84-31621
Observations of long-period motions of the Earth at the South Pole 21 p3440 N84-31823

Measurement and modification of sensorimotor system function during visual-motor performance
[AD-A142919] 21 p3461 N84-31947
START/TM: A study of start-up and fractional power operation of tandem mirror fusion reactors
[DE84-011477] 21 p3502 N84-32196
A design automation database for computer aided design of computer systems 21 p3517 N84-32278
On the masses of white dwarfs in cataclysmic binaries 21 p3524 N84-32323
Programming productivity enhancement by the use of application generators
[AD-A143532] 22 p3640 N84-33080
Observation of advanced particle removal rates in pump limiter simulation experiments
[DE84-014327] 22 p3660 N84-33202
Electron localization and superconductivity of very thin epitaxially grown ag films on ge(001)
[AD-A143469] 22 p3663 N84-33224
Updating replicated files in real time distributed processing systems 22 p3670 N84-33264
Criteria for nearly omnidirectional radiation patterns for printed antennas
[AD-A143662] 23 p3731 N84-33646
On the modeling of electromagnetically coupled microstrip antennas: The printed strip dipole
[AD-A143927] 23 p3731 N84-33651
Low and high altitude ionospheric modification experiments 23 p3796 N84-34072
Characterization of infrared optical properties of transparent materials
[AD-A143986] 23 p3825 N84-34257
Sequential decision models in reliability
[AD-A144181] 24 p3911 N84-34770
Petrology of basement rocks of the California continental borderline and the Los Angeles Basin 24 p3917 N84-34801
Spline and weighted random directions method for nonlinear optimization
[AD-A144217] 24 p3950 N84-35012

CALIFORNIA UNIV., RICHMOND.

Transducer for measuring the internal forces in the columns of a frame-wall reinforced concrete structure
[PB84-119494] 09 p1319 N84-18617
System identification of structures with joint rotation
[PB84-192210] 20 p3205 N84-30357

CALIFORNIA UNIV., RIVERSIDE.

Medium energy gamma rays from the galactic center region 04 p0622 N84-14100
Salton Sea Geothermal Field, California, as a near-field natural analog of a radioactive waste repository in salt
[DE84-003851] 09 p1346 N84-18794
Homeostasis in primates in hyperacceleration fields 09 p1354 N84-18852

CALIFORNIA UNIV., SAN DIEGO.

Silicide formation and Schottky barrier of rare-earth metals on Si
[AD-A131750] 03 p0452 N84-12975
Silicide formation and Schottky barrier of rare-earth metals on Si
[AD-A131749] 03 p0452 N84-12976
Silicide formation and Schottky barrier of rare-earth metals on Si
[AD-A131748] 03 p0452 N84-12977
Investigation of the wall pressure, wall shear stress and velocity fields associated with a turbulent spot in a laminar boundary layer 04 p0531 N84-13488
A variational method for estimating the general circulation in the ocean 04 p0550 N84-13626
Energization of ions by oblique double layers 04 p0561 N84-13700
Experimental picosecond transient spectra for i2 photodissociation in liquids
[AD-A134371] 07 p0969 N84-16282
Electronic spectra from molecular dynamics: A simple approach
[AD-A134325] 07 p1071 N84-16961
Comparison of thermal, line-source electron beam and CW laser annealing for the fabrication of ErSi/sub 2 Schottky barrier on Si
[DE84-003105] 07 p1081 N84-17031
Studies on the mechanics of rapidly flowing granular-fluid materials
[AD-A135463] 08 p1158 N84-17540
Proceedings of the Conference on Joint Problem Solving and Microcomputers
[AD-A135001] 08 p1211 N84-17901
Satellite observations of fronts and frontal meanders in the Central North Pacific Ocean 11 p1671 N84-20903
Depositional history and structural evolution of a sedimentary basin in a modern forearc setting, western Sunda Arc, Indonesia 13 p2014 N84-23068
Software engineering for user interfaces
[AD-A136937] 13 p2029 N84-23155
Infrared astronomy research and high altitude observations
[NASA-CR-173526] 13 p2070 N84-23413
Publications resulting from Infrared Astronomy Research and High Altitude Observations
[NASA-CR-173525] 13 p2070 N84-23414
What's so hot about formulated synthetics? 14 p2155 N84-23909
Sea level variations and ocean dynamics in the Aleutian Islands
[AD-A139421] 14 p2183 N84-24079
Experimental test of the gravitational inverse square law between 45 centimeters and one meter 16 p2526 N84-26221
The identification and inversion of acoustic multipath data at long range in the ocean
[AD-P003123] 16 p2533 N84-26264
Harmony theory: Problem solving, parallel cognitive models and thermal physics
[AD-A140877] 17 p2759 N84-27515
High precision measurements in crustal dynamic studies
[NASA-CR-173680] 18 p2879 N84-28279
User centered system design. Part 2: Collected papers from the UCSD HMI project
[AD-A141023] 18 p2915 N84-28486
Inductive information retrieval using parallel distributed computation
[AD-A142712] 20 p3314 N84-31050
Observations and analysis of solar flares using H Alpha spectral profiles 21 p3526 N84-32335
Studies of the microscale density fluctuations in the solar wind using interplanetary scintillations 22 p3679 N84-33324
Large scale solar modulation of 500 MeV/N galactic cosmic rays seen from 1-30 AU
[NASA-CR-173993] 24 p3995 N84-35283

CALIFORNIA UNIV., SAN DIEGO, LA JOLLA.

Computation of counting distributions arising from a single-stage multiplicative process
[AD-A131480] 01 p0072 N84-10471
Representation in memory
[AD-A130662] 01 p0117 N84-10757
Surface and interfacial properties of Ga(0.47) In(0.53) As alloys
[AD-A131925] 03 p0451 N84-12970
Empirical validation of computer models for passive-solar residences
[DE83-016887] 03 p0457 N84-13005
Solar cycle evolution of the solar wind in three dimensions 03 p0469 N84-13090
Anomalously high potentials observed on ISEE
[NASA-CR-172791] 08 p1115 N84-17252
User centered system design
[AD-A136131] 09 p1364 N84-18907
Calculation of cumulative distributions and detection probabilities in communications and optics
[AD-A136561] 09 p1376 N84-18989
Optical analog & hybrid computer solution of partial differential equations
[AD-A137028] 10 p1571 N84-20291
Fabrication and evaluation of chirped grating lenses in lithium niobate waveguides
[AD-A137103] 10 p1579 N84-20345
Harmony theory: A mathematical framework for stochastic parallel processing
[AD-A137883] 11 p1714 N84-21178
Excitation of simple atoms by slow magnetic monopoles
[DE84-006209] 12 p1903 N84-22393
Research in the field of fluid mechanics, with emphasis on non linear waves and diffraction of linear wave
[AD-A138378] 12 p1916 N84-22485
Designing efficient communication networks
[AD-A139190] 14 p2202 N84-24219
Five times compression of mode-locked argon ion laser pulses
[AD-A139635] 15 p2339 N84-25040
An overview of charging of large space structures in polar orbit
[AD-P002100] 16 p2521 N84-26186
Study of avalanche discharge lasers
[AD-A141203] 18 p2846 N84-28074
Trapped particle absorption by the Ring of Jupiter
[NASA-CR-173919] 22 p3679 N84-33323

CALIFORNIA UNIV., SANTA BARBARA.

Radiation and laser potential of homo and heteronuclear rare-gas diatomic molecules
[AD-A130093] 01 p0141 N84-10929
LANDSAT-D investigations in snow hydrology
[E84-10004] 02 p0235 N84-11545
Boundary behavior of harmonic functions 02 p0283 N84-11857
Analysis of hydrogen attack on pressure-vessel steels
[DE84-000061] 04 p0504 N84-13301
Assessment of acidity of lakes and precipitation in the Sierra Nevada
[PB83-255521] 05 p0701 N84-14603
Stability analysis for difference schemes, problems in applied linear algebra, and application of number theory to computing
[AD-A133654] 05 p0735 N84-14825
Squeezable electron tunneling junctions
[AD-A132884] 05 p0754 N84-14946
Theory of pulse propagation and coherence in free electron
[AD-A133334] 06 p0850 N84-15544
LANDSAT-D investigations in snow hydrology
[E84-10074] 07 p1021 N84-16621
Development of a planar heterojunction bipolar transistor for very high speed logic
[AD-A136341] 09 p1306 N84-18539
Charge storage in doped poly(thiophene)
[AD-A137085] 10 p1455 N84-19506
An electromagnetic squeezer for compressing squeezable electron tunneling junctions
[AD-A136668] 10 p1588 N84-20410
Archean crust-mantle geochemical differentiation 11 p1680 N84-20966
Physiological adjustments to hemorrhage, altitude, and work
[AD-A137781] 11 p1695 N84-21057
LANDSAT-D investigations in snow hydrology
[E84-10094] 13 p2003 N84-22997
Atmospheric model development 13 p2004 N84-22998
Registration of TM data to digital elevation models 13 p2004 N84-22999
Age and evolution of the Yukon-Tanana Terrane, southeastern Yukon Territory 13 p2013 N84-23060
Research agenda in non-linear decision systems
[PB84-161207] 14 p2187 N84-24102
Geology of the Olympus Mons region of Mars 16 p2580 N84-26547
Long range coherence in free electron lasers
[NASA-CR-173678] 18 p2845 N84-28066
Program for research on conducting polymers
[AD-A142148] 19 p3000 N84-29009
Air as an adjustable insulator for C-V and G-V analysis of semiconductor surfaces
[AD-A141437] 19 p3013 N84-29099
LANDSAT-D investigations in snow hydrology
[E84-10156] 19 p3039 N84-29277
Using interactive computing to expand intelligence testing: A critique and prospectus
[AD-A141657] 19 p3072 N84-29489
Photoelectrochemistry at iron oxide electrodes
[DE84-011453] 20 p3150 N84-30003
Snow reflectance from LANDSAT-4 Thematic Mapper 20 p3216 N84-30426
Activities of the Remote Sensing Information Sciences Research Group
[E84-10177] 21 p3427 N84-31739
Habitability of the Earth 21 p3427 N84-31740
NASA pilot land data system 21 p3427 N84-31741
Advanced data structure and geographic information systems 21 p3427 N84-31742
Applying artificial intelligence to large networks 21 p3428 N84-31743
Knowledge-based expert systems for crop identification 21 p3428 N84-31744
Knowledge based engineering for spatial database management and use 21 p3428 N84-31745
Annotated bibliography of global resources information systems related publications 21 p3428 N84-31746
Global resources information system 21 p3428 N84-31747
The potential of AI techniques for remote sensing 21 p3428 N84-31748
Sensitivity to hypoxia in humans 21 p3456 N84-31934
Stratigraphy and sedimentology of the upper Proterozoic Kingston Peak Formation, Panamint Range, eastern California 22 p3620 N84-32939
Stability analysis of finite difference schemes for hyperbolic systems, and problems in applied and computational linear algebra
[AD-A143537] 22 p3646 N84-33119
Research on phase transformations and non-equilibrium process
[DE84-014376] 23 p3720 N84-33580
Properties of the deep scattering layer analyzed in terms of bioluminescent behavior of its components
[AD-A143849] 23 p3803 N84-34113
A review of our present understanding of macrosegregation in ingots 24 p3883 N84-34601

CALIFORNIA UNIV., SANTA CRUZ.

Studies of the voltammetric determination of trace metals in seawater
[AD-A131164] 02 p0190 N84-11233

Respiration of roots response to low O2 stress
[DE83-017495] 04 p0572 N84-13766
Optical flux and polarization spectra compared with radio maps of radio galaxies 06 p0938 N84-16093
Low-ionization emission regions in the nuclei of spiral galaxies 06 p0939 N84-16100
Luminosity calibration of low redshift quasars
[NASA-CR-175372] 08 p1242 N84-18120
High resolution surface photometry of elliptical galaxies 17 p2776 N84-27625
High energy transients
[NASA-CR-173944] 23 p3838 N84-34347

CALIFORNIA UNIV., TORRANCE.
Stress biochemistry: Non-invasive measurement techniques in military subjects
[AD-A141598] 19 p3065 N84-29447

CALSPAN ADVANCED TECHNOLOGY CENTER, BUFFALO, N.Y.
Study of the contained air flow in a radial tire: Experimental
[DE84-000840] 04 p0545 N84-13591
Results from wind tunnel and artificial rainfall tests of the modified scan sensor
[AD-A133238] 06 p0792 N84-15162
Laboratory investigation of the fate of diesel emissions in the atmosphere
[PB84-118496] 09 p1343 N84-18772
An evaluation of marine fog forecast concepts and a preliminary design for a marine obscuration forecast system
[AD-A136379] 09 p1348 N84-18808
Computer program for evaluating the ives transformation in turbomachinery cascades, revision
[AD-A137064] 10 p1571 N84-20295
Mach number and density effects in the mixing of supersonic jets 13 p1942 N84-22628
The role of vegetation in the low-level water budget in fog
[AD-A139099] 14 p2179 N84-24051
Aerosol characteristics on the Alboran sea, 9-18 october 1982
[AD-A139892] 15 p2371 N84-25227
Studies of boundary layer transition and surface roughness effects in hypersonic flow
[AD-A140803] 17 p2601 N84-26670
CO2 gamma 3 fundamental band 4.5 micrometers laser potential
[AD-A142536] 20 p3148 N84-29991

CALSPAN CORP., BUFFALO, N. Y.
The feasibility of using precursor aerosol parameters to predict visibility in fog and haze
[AD-A137141] 10 p1539 N84-20084
Mitigation of biofouling using coatings
[DE84-006112] 11 p1693 N84-21041

CALSPAN CORP., SAN DIEGO, CALIF.
Command flight path display, phase 1 and 2
[AD-A140870] 17 p2611 N84-26711
Command flight path display, phase 1 and 2. Appendices A - E
[AD-A140871] 17 p2611 N84-26712

CALSPAN FIELD SERVICES, INC., ARNOLD AIR FORCE STATION, TENN.
Explanation of the hypersonic longitudinal stability problem: Lessons learned 01 p0021 N84-10130
Space Shuttle external interference heating test
[AD-A131688] 03 p0341 N84-12215
Design and initial operational characteristics of a shock tube-Raman scattering calibration system
[AD-A133251] 06 p0847 N84-15525
Captive trajectory system test planning information for AEDC supersonic wind tunnel (A) and hypersonic wind tunnels (B) and (C)
[AD-A136439] 09 p1259 N84-18217
Combustion performance of a vitiated air heater for a freejet test facility 13 p1952 N84-22691
A review and an update of the FDP Specialists Meeting (London) on Wall Interference in Wind Tunnels 14 p2095 N84-23570
Test techniques for jet effects on fighter aircraft 14 p2098 N84-23589
Transonic nozzle-afterbody flow field measurements using a laser Doppler velocimeter 14 p2098 N84-23592
Boundary layer trip performance test on a 7-deg cone model at mach number 8
[AD-A139406] 14 p2146 N84-23860
Multichannel detection systems available for flow diagnostics at AEDC
[AD-A132302] 16 p2452 N84-25722
Aerothermal wind tunnel test of the space shuttle OMS (Orbital Maneuvering System) pod AFRSI (Advanced Flexible Reusable Surface Insulation) material
[AD-A140292] 16 p2457 N84-25754
Wind tunnel material test to quantify Space Shuttle external tank insulation requirements
[AD-A141563] 19 p2981 N84-28890
Aerodynamic and Propulsion Test Unit (APTU) performance with a vitiated air heater 20 p3144 N84-29964
Unsteady viscous-inviscid interaction procedures for transonic airfoil flows
[AD-A143764] 23 p3690 N84-33390

CAMBRIDGE ACOUSTICAL ASSOCIATES, INC., MASS.
Analytical model of the structureborne interior noise induced by a propeller wake
[NASA-CR-172381] 21 p3490 N84-32119

CAMBRIDGE HYDRODYNAMICS, INC., MASS.
Boundary-integral simulations of rayleigh-taylor instability in ideal magnetohydrodynamics
[AD-A131667] 03 p0444 N84-12920

CAMBRIDGE UNIV. (ENGLAND).
The calculation of steady and unsteady transonic flow in cascades
[CUED/A-TURBO/TR-118] 01 p0002 N84-10016
A method of calculating fully three dimensional inviscid flow through any type of turbomachine blade row 06 p0840 N84-15479
A review of current research activity on the aerodynamics of axial flow turbines 06 p0841 N84-15480
Three-dimensional flow calculations on a hypothetical steam turbine last stage 06 p0841 N84-15481
Wet steam flow in L. P. turbines 06 p0841 N84-15483
The development of unsteady boundary layers on the rotor of an axial-flow turbine 07 p0956 N84-16197
Automatic measurement of celestial objects: Stars, star clusters, galaxies, supernovae, and quasars 07 p1088 N84-17078
Liquid impact erosion mechanisms in transparent materials
[AD-A135891] 09 p1287 N84-18405
Internal calibration of astronomical photographs 09 p1411 N84-19230
Activities report of the Institute of Astronomy 13 p2071 N84-23422
Status and direction of tribology as a science in the 80's. Understanding and prediction 14 p2152 N84-23892
Future directions of research in adhesion and friction. Status of understanding 14 p2153 N84-23896
On the identification of normal modes of oscillation from observations of the solar periphery
[NASA-CR-173667] 19 p3123 N84-29844
Microwave and far infrared spectroscopy of transient molecules
[AD-A142962] 21 p3493 N84-32134
Algorithmic integration of elementary transcendental functions on an algebraic curve 22 p3636 N84-33052
MCG-2-58-22 = Mkn 926. A high luminosity Seyfert galaxy with two distinct broad line components 24 p3972 N84-35150
Dwarf novae through the outburst cycle 24 p3979 N84-35203
Constraints on stellar winds of cataclysmic variables derived from ultraviolet resonance lines 24 p3979 N84-35205

CANADA CENTRE FOR INLAND WATERS, BURLINGTON (ONTARIO).
Does the scatterometer see wind speed or friction velocity? 17 p2713 N84-27270

CANADA CENTRE FOR REMOTE SENSING, OTTAWA (ONTARIO).
CCRS proposal for evaluating LANDSAT-D MSS and TM data
[E84-10026] 02 p0238 N84-11560
Remote sensing using the airborne MEIS 2 multidetector electro optical imaging scanner 03 p0397 N84-12592
CCRS proposal for evaluating LANDSAT-4 MSS and TM data
[E84-10096] 10 p1522 N84-19966
Revised radiometric calibration technique for LANDSAT-4 Thematic Mapper data by the Canada Centre for Remote Sensing 10 p1522 N84-19967
Revised radiometric calibration technique for LANDSAT-4 Thematic Mapper data 10 p1522 N84-19968
LANDSAT-4 MSS interband registration 10 p1523 N84-19969
LANDSAT-MSS multitemporal registration 10 p1523 N84-19970
Radiometric calibration and geocoded precision processing of LANDSAT-4 MSS products 10 p1523 N84-19975
CCRS option for TM data distribution 10 p1524 N84-19982
Evaluating LANDSAT-4 MSS and TM data
[E84-10157] 17 p2709 N84-27249
Theory and measure of certain image norms in SAR 17 p2713 N84-27274
Revised radiometric calibration technique for LANDSAT-4 Thematic Mapper data by the Canada Centre for Remote Sensing 20 p3208 N84-30378
Radiometric calibration and geocoded precision processing of LANDSAT-4 Multispectral Scanner products by the Canada Centre for Remote Sensing 20 p3212 N84-30404
On the SAR response of agricultural targets in a northern prairie environment 23 p3770 N84-33896
Conceptual design of satellite SAR 23 p3782 N84-33985

CANADA INST. FOR SCIENTIFIC AND TECHNICAL INFORMATION, OTTAWA (ONTARIO).
Handbook on the determination of the physical, thermal and mechanical properties of frozen soils
[NRC/CNR-TT-2064] 03 p0395 N84-12578
Suggestions concerning technological research and development for the purpose of industrial use of marine algae
[ISSN-0077-5606] 05 p0711 N84-14661
Procedure for producing higher hydrocarbons
[NRC/CNR-TT-2073] 06 p0800 N84-15217
Measures against errors in the building process
[NRC/CNR-TT-2067] 06 p0814 N84-15295
On the functional dependence of the freezing point of soils on the composition of water soluble salts in an interstitial solution
[NRC/CNR-TT-2070] 06 p0877 N84-15707
On the mechanism of the biological conversion of citric acid. 6: Citrate-synthase is an acetyl-CoA enolase
[NRC/CNR-TT-2074] 07 p0965 N84-16256
Numerical solution of a generalized model of weld pool solidification
[NRC/CNR-TT-2076] 07 p1012 N84-16564
A reverberation room round robin on the determination of absorption coefficients
[NRC/CNR-TT-2079] 12 p1898 N84-22364
Causes and prevention of systematic deviations from true values of absorption coefficients measured in reverberation rooms
[NRC/CNR-TT-2080] 15 p2403 N84-25423

CANYON RESEARCH GROUP, INC., WESTLAKE VILLAGE, CALIF.
Development of speech input/output interfaces for tactical aircraft
[AD-A136485] 09 p1255 N84-18193
Design criteria for reducing popping in area-of-interest displays: Preliminary experiments
[AD-A136769] 10 p1430 N84-19351
Part-task training of tracking in manual control
[AD-A138346] 12 p1868 N84-22175
Simulator design features for air-to-ground bombing. Part 1: Performance experiment 1
[AD-A141190] 18 p2798 N84-27753

CAP SOGETI LOGICIEL, TOULOUSE (FRANCE).
Software production in a large space project: The SPOT mission center 05 p0724 N84-14752

CAPE TOWN UNIV. (SOUTH AFRICA).
The plane stress/strain analysis of non-homogeneous continua by the boundary integral equation method
[TR-821S] 04 p0587 N84-13880
NOSTRUM: A finite element program for nonlinear structural mechanics
[TR-18] 04 p0587 N84-13881
Information systems design in construction management 05 p0717 N84-14696

CARBORUNDUM CO., NIAGARA FALLS, N. Y.
Ceramic component manufacturing technology development
[PB84-215276] 22 p3561 N84-32550

CARDINAL MANAGEMENT ASSOCIATES, INC., WASHINGTON, D.C.
Appropriate Technology Small Grants Program evaluation, volume 1: Executive summary
[DE84-010675] 20 p3313 N84-31036
Appropriate Technology Small Grants Program evaluation, volume 2
[DE84-010674] 20 p3313 N84-31039

CARNEGIE INST. OF TECH., PITTSBURGH, PA.
Flexible parsing
[AD-A131495] 01 p0123 N84-10803
On the implications for LEFM (Linear elastic fracture Mechanics) of the 3-dimensional aspects in some crack/surface intersection problems
[AD-A134227] 07 p1016 N84-16592
The C.mmp multiprocessor
[AD-A142132] 19 p3072 N84-29493

CARNEGIE INSTITUTION OF WASHINGTON, D. C.
Sm-Nd isotopic systematics of the ancient Gneiss complex, southern Africa 11 p1678 N84-20950

CARNEGIE-MELLON UNIV., PITTSBURGH, PA.
Metaphor and common-sense reasoning
[AD-A131423] 02 p0268 N84-11756
Machine learning. Part 1: A historical and methodological analysis
[AD-A131424] 02 p0278 N84-11824

Numerical methods for free boundary problems and 2 phase flows
[AD-A131374] 02 p0260 N84-11835
Software voting in asynchronous NMR (N-Modular Redundancy) computer structures
[NASA-CR-174488] 03 p0418 N84-12732
Disjunctive programming and a hierarchy of relaxations for discrete optimization problems
[AD-A132004] 03 p0425 N84-12784
A program of research on microfabrication techniques for VLSI magnetic devices
[AD-A131706] 03 p0452 N84-12978
Finite elements and the divergence constraint for viscous flows 04 p0530 N84-13486
Learning to program in LISP
[AD-A132611] 05 p0728 N84-14781
Modelling particle - particle interaction at the micro scale
[AD-A133969] 05 p0744 N84-14885
Automatic inspection for printed wiring
[AD-A133328] 06 p0854 N84-15566
A distributed control system for the CMU Rover
[AD-A133201] 06 p0893 N84-15802
The Stanford cart and the CMU Rover
[NASA-CR-174502] 06 p0893 N84-15803
POPEYE: A gray-level vision system for robotics applications
[AD-A133298] 06 p0893 N84-15804
The human side of robotics: Results from a prototype study on how workers react to a robot
[AD-A133438] 06 p0894 N84-15805
Appropriate lengths between phalanges of multijointed fingers for stable grasping
[AD-A133448] 06 p0894 N84-15806
Implementation of automatic focusing algorithms for a computer vision system with camera control
[AD-A133492] 06 p0894 N84-15807
Techniques for sensor-based diagnosis
[AD-A133297] 06 p0896 N84-15814
Exploiting temporal knowledge to organize constraints
[AD-A133417] 06 p0899 N84-15838
A representation for shape based on peaks and ridges in the difference of low-pass transform
[AD-A133299] 06 p0901 N84-15849
The travelling salesman problem in graphs with 3-edge cutsets
[AD-A133504] 06 p0902 N84-15852
ISIS: A constraint-directed reasoning approach to job shop scheduling
[AD-A133296] 06 p0933 N84-16063
Effects of alloy composition and processing on the microstructure of D-9 type stainless steel
[DE84-003022] 07 p0975 N84-16321
Grippers for an unmanned forging cell
[AD-A134237] 07 p1051 N84-16808
Precision flexible machining cells within a manufacturing system
[AD-A134864] 08 p1167 N84-17595
Flexible conformable clamps for a machining cell with applications to turbine blade machining
[AD-A134942] 08 p1167 N84-17596
An optical proximity sensor for measuring surface position and orientation for robot manipulation
[AD-A134899] 08 p1205 N84-17861
Myopic heuristics for the weighted tardiness problem on ioentical parallel machines
[AD-A134934] 08 p1216 N84-17934
Optical data processing for missile guidance
[AD-A136216] 09 p1254 N84-18188
The numerical solution of incompressible Navier-Stokes equations
[AD-A136158] 09 p1316 N84-18597
Workshop on Magnetic Information Technology (MINT)
[PB84-125210] 09 p1319 N84-18619
Dynamically stable legged locomotion
[AD-A136644] 09 p1363 N84-18905
Comparing probability forecasters: Basic binary concepts and multivariate extensions
[AD-A135966] 09 p1377 N84-18998
Comment on graphical methods for assessing logistic regression models by Landwehr, Pregibon and Shoemaker
[AD-A135684] 09 p1383 N84-19031
Towards a comprehensive approach to the analysis of categorical data
[AD-A135967] 09 p1383 N84-19034
Solution of dynamic optimization problems by successive quadratic programming and orthogonal collocation
[AD-A137336] 10 p1563 N84-20238
Automatic planning of fine motions: Correctness and completeness
[AD-A137355] 10 p1568 N84-20269
Recursive lagrangian dynamics of flexible manipulator arms via transformation matrices
[AD-A137345] 10 p1574 N84-20316
Knowledge-based support systems for long range planning
[AD-A137311] 10 p1591 N84-20424
On the facial structure of scheduling polyhedra
[AD-A136983] 10 p1591 N84-20427
Measurements in liquid fuel sprays 11 p1608 N84-20526
Turbulent swirling combustion 11 p1609 N84-20535
Barriers to the migration of interphase boundaries
[AD-A137902] 11 p1633 N84-20679
An extension of matching theory
[AD-A137605] 11 p1706 N84-21120
Compositions for perfect graphs
[AD-A137611] 11 p1706 N84-21121
Vaporization of synthetic fuels
[DE84-006556] 12 p1803 N84-21755
The role of DBMS in design research 12 p1891 N84-22317
Optical systolic solutions of linear algebraic equations 12 p1905 N84-22405
Machine vision: Three generations of commercial systems
[AD-A139037] 13 p2024 N84-23123
A high speed processor for binary images
[AD-A138908] 13 p2025 N84-23125
Numerical boundary conditions for flow problems
[AD-P002960] 14 p2200 N84-24200
Least squares approximations to compressible flow problems
[AD-P002961] 14 p2200 N84-24201
Workshop on Multiprocessors for High Performance Parallel Computation: Position papers
[PB84-152545] 14 p2204 N84-24228
Workshop on Multiprocessors for High Performance Parallel Computation
[PB84-152677] 14 p2204 N84-24229
Friction damping of flutter in gas turbine engines 17 p2609 N84-26701
Hydrogen effects on cleavage fracture in fully pearlitic 1080 steel 17 p2621 N84-26778
Testing and control of a compliant wrist
[AD-A140842] 17 p2748 N84-27445
The role of traps in the microstructural control of hydrogen embrittlement of steels
[AD-A141249] 18 p2814 N84-27863
Towards a general scientific reasoning engine
[AD-A141263] 18 p2924 N84-28543
The effect of solidification rate on morphological stability 18 p2936 N84-28620
An algorithm for seam tracking applications
[AD-A141705] 19 p3031 N84-29227
Robotic seam tracking
[AD-A141769] 19 p3031 N84-29228
Path relaxation: Path planning for a mobile robot
[AD-A141779] 19 p3032 N84-29229
Symbolic knowledge processing for the acquisition of expert behavior: A study in medicine
[AD-A141835] 19 p3068 N84-29460
A machine learning approach to student modeling
[AD-A141704] 19 p3080 N84-29547
Precision flexible machining cells within a manufacturing system
[AD-A142527] 20 p3170 N84-30129
A summary of fault tolerant computing research at Carnegie Mellon University
[AD-A142707] 20 p3273 N84-30777
A problem expanding parametric programming method for solving the job shop scheduling problem
[AD-A142392] 20 p3313 N84-31036
Transportability of NEBULA software
[AD-P003533] 21 p3331 N84-31137
The effects of deformation mode and microstructure fracture-related properties of Ti alloys
[AD-A142891] 21 p3366 N84-31353
On the finite element approximation of the stream function-vorticity equations
[AD-A143506] 22 p3594 N84-32758
Ignition and flame propagation in sprays
[AD-A143773] 23 p3713 N84-33538
The role of hydrogen in the stress corrosion cracking of 7XXX-series aluminum alloys 23 p3717 N84-33561
Three-dimensional finite element analysis of straight and curved through cracks in a plate 23 p3759 N84-33826
Some inherently 3-dimensional problems in linear elastic fracture mechanics 23 p3759 N84-33828
A computational paradigm for three dimensional scene analysis
[AD-A143963] 23 p3816 N84-34196
Stress corrosion cracking of wrought and P/M high strength aluminum alloys
[AD-A144279] 24 p3884 N84-34606
Gaze control during horizontal and vertical target tracking
[AD-A144484] 24 p3938 N84-34926
A systolic algorithm for integer GCD computation
[AD-A144409] 24 p3951 N84-35019

CASE WESTERN RESERVE UNIV., CLEVELAND, OHIO.

Nondestructive FT-IR sampling technique to study glass fiber composite interfaces
[AD-A129871] 01 p0031 N84-10192
Structural gradient in the silane coupling agent layers and its influence on the mechanical and physical properties of composites
[AD-A130864] 01 p0031 N84-10197
Quality control and nondestructive evaluation techniques for composites. Part 2: Physiochemical characterization techniques, a state-of-the-art review
[AD-A131038] 01 p0032 N84-10200
Hydrothermal stability of gamma-aminopropyltriethoxysilane coupling agent on ground silicon powder and E-glass fibers
[AD-A130904] 01 p0037 N84-10234
Epitaxial polymerization as a molecular engineering technique
[AD-A131405] 02 p0200 N84-11302
Effect of crack curvature on stress intensity factors for ASTM standard compact tension specimens
[NASA-CR-168280] 02 p0231 N84-11513
Three-dimensional analysis of chevron-notched specimens by boundary integral method
[NASA-CR-172225] 04 p0547 N84-13607
Improved moisture resistance of fiber reinforced plastics
[AD-A132762] 05 p0659 N84-14333
Spectroscopic characterization of the cured state of acetylene-terminated resin
[AD-A133050] 05 p0660 N84-14336
Solution of elastic and elasto-plastic problems by the method of lines 06 p0856 N84-15573
Electrochemical studies of redox systems for energy storage
[NASA-CR-174503] 06 p0873 N84-15681
Bifunctional oxygen electrodes
[DE84-002774] 07 p0972 N84-16296
Crack propagation in polystyrene under fixed elongation
[AD-A134749] 08 p1138 N84-17399
Applications of photoacoustic techniques to the study of jet fuel residue
[NASA-CR-173322] 09 p1290 N84-18420
Rodent CNS neuron development: Timing of cell birth and death 09 p1357 N84-18870
A method for comparing the structure of a discipline to the structure of a bibliographic file for that discipline 10 p1593 N84-20443
Dilution jet experiments in compact combustor configurations 11 p1611 N84-20545
Innovative concepts for photovoltaic applications
[DE84-005247] 11 p1674 N84-20923
Environmental reactions and their effects on mechanical behavior of metallic materials
[DE84-005768] 12 p1799 N84-21734
Compressibility of colloids. 2: Compressibility studies of tri-block non-ionic polymers in toluene and water solutions
[AD-A138738] 13 p1963 N84-22755
Nonlinear/transient rotor dynamics analysis 13 p2000 N84-22977
Crack layer theory
[NASA-CR-174634] 13 p2001 N84-22980
Millimeter wave transmission systems and related devices
[NASA-CR-173515] 15 p2319 N84-24918
Real surface effects in elastohydrodynamic lubrication 15 p2341 N84-25052
Experimental investigation of two-dimensional shock boundary layer interactions 16 p2485 N84-25938
Scaling and modeling of three-dimensional, end-wall, turbulent boundary layers
[NASA-CR-3792] 16 p2485 N84-25941
Optimization methods in hierarchical holographic modeling 16 p2494 N84-26001
Structure of silver (100) and (111) single-crystal surfaces obtained by chemical polishing
[AD-A140148] 16 p2560 N84-26424
The relationship between exhaustivity and consistency at the optimum indexing level 16 p2565 N84-26462
A computer algorithm for correcting spelling and typographical errors in subject headings 16 p2566 N84-26463
A study of conference publication records in OCLC: Some implications for the formulation and application of cataloging rules 16 p2566 N84-26464
The discrete prolate spheroidal filter as a digital signal processing tool 17 p2696 N84-27174
Dilution jets in accelerated cross flows
[NASA-CR-174717] 19 p2966 N84-28794

Cold working and annealing effects on the creep and rupture resistance of the oxide-dispersion-strengthened alloy MA754
[AD-A141438] 19 p2993 N84-28969
Statistical-mechanical study of polyvinylidene fluoride
[AD-A143040] 21 p3370 N84-31383
Interactive finite elements for general engine dynamics analysis 21 p3421 N84-31698
Particle environment
[NASA-CR-173886] 22 p3661 N84-33210
Influence of cobalt, tantalum and tungsten on the high temperature mechanical properties of single crystal nickel-base superalloys 23 p3716 N84-33558
Environment and receptivity 23 p3748 N84-33760
Laminar flow control - viscous simulation 23 p3749 N84-33764
On stress analysis of a crack-layer 23 p3759 N84-33824
Collapse of long stiffened circular cylinders under combined axial bending and pressure loading 23 p3759 N84-33825
Mechanical behavior of carbon-carbon composites
[NASA-CR-174767] 24 p3878 N84-34575
The potential for bulk undercooling as an industrial process 24 p3882 N84-34592
Changes in solidified microstructures 24 p3882 N84-34595
On stress analysis of a crack-layer
[NASA-CR-174774] 24 p3912 N84-34774

CASTAR, INC., EVANSTON, ILL.
Fundamentals of non-Newtonian liquid flow on surfaces
[AD-A135543] 08 p1158 N84-17541

CATALYTIC, INC., PHILADELPHIA, PA.
AFB/open cycle gas turbine conceptual design study
[NASA-CR-168135] 21 p3434 N84-31784

CATANIA UNIV. (ITALY).
Remote sensing analysis of oil pollution in Augusta Bay, Sicily 03 p0400 N84-12616
Emission lines in the UV spectrum of alpha Tau 24 p3974 N84-35168
Coordinated IUE and ground-based observations of active stars: Flare events on YZ CMi, V 1005 ORI, AD Leo and AR Lac 24 p3975 N84-35177

CATHOLIC UNIV. OF AMERICA, WASHINGTON, D.C.
Some characteristics of midlatitude F layer storms generated by thermosphere-plasmasphere coupling processes 02 p0251 N84-11645
Corotating shocks in inner heliosphere 03 p0475 N84-13124
An analysis of acoustic and seismic wave resonances 04 p0561 N84-13701
Effects of cochannel interference on QPSK systems in a nonlinear satellite channel 05 p0671 N84-14414
The instability of oscillatory Ekman boundary-layer flow 05 p0710 N84-14655
Properties of material in the submillimeter wave region (instrumentation and measurement of index of refraction)
[NASA-CR-175156] 07 p1006 N84-16524
Auditory induction of discrete tones in signal detection tasks
[AD-A135502] 08 p1227 N84-18019
The effect of structured contextual tones on psychophysical frequency discrimination
[AD-A135433] 09 p1363 N84-18903
Pattern-directed attention in uncertain frequency detection
[AD-A135905] 10 p1547 N84-20142
Acoustic exploration of ocean floor properties based on the ringing of sediment layer resonances
[AD-A138245] 12 p1899 N84-22367
Elastic wave scattering from cylindrical cavities and solid inclusions analyzed by the resonance method
[AD-P002971] 14 p2201 N84-24207
Experimental investigation of the turbulent large scale temporal flow in the wing-body junction
[AD-A139836] 15 p2257 N84-24558
Unified analytical kinematic analysis and synthesis of spatial mechanisms 16 p2501 N84-28049
Perception of acoustic transients
[AD-A138201] 18 p2929 N84-28571

CBI INDUSTRIES, INC., OAK BROOK, ILL.
Shelf mounted ocean thermal energy conversion platform, revised preliminary report
[PB84-185230] 20 p3237 N84-30551

CELANESE RESEARCH CO., SUMMIT, N.J.
Liquid crystal polyester-carbon fiber composites
[NASA-CR-172323] 17 p2618 N84-26754

CENTEC CONSULTANTS, INC., RESTON, VA.
Assessment of energy-efficiency improvements for paint spray booths
[DE83-016680] 03 p0356 N84-12320
Navy electroplating pollution control technology assessment manual
[AD-A140336] 16 p2477 N84-25879

CENTER FOR ASTROPHYSICS, CAMBRIDGE, MASS.
Photometric variations of solar-type stars: Results of the Cloudcroft survey 17 p2779 N84-27646

CENTER FOR MATHEMATICS AND COMPUTER SCIENCE, AMSTERDAM (NETHERLANDS).
A study of elimination conditions for the permutation flow-shop sequencing problem
[CWI-OS-R8403] 17 p2754 N84-27483
New directions in scheduling theory
[CWI-OS-R8401] 17 p2761 N84-27535
Overload control for a Stored Program Control (SPC) telephone exchange: An optimal stochastic control approach
[CWI-OS-R8404] 19 p3081 N84-29550
On estimating a parameter and its score function
[CWI-MS-R8402] 19 p3091 N84-29632
On the stable size distribution of populations reproducing by fission into two unequal parts
[CWI-AM-R8401] 19 p3092 N84-29633
Global bifurcation of a logistic delay map
[CWI-AM-R8402] 19 p3092 N84-29634
The exit problem for a stochastic dynamical system in a domain with almost everywhere characteristic boundaries
[CWI-AM-R8403] 19 p3092 N84-29635
Entire functions for the logistic map 2
[CWI-AM-R8404] 19 p3092 N84-29636
Asymptotic analysis of a queueing system with a two-dimensional state space
[CWI-OS-R8402] 19 p3092 N84-29637
Bounded tiling, an alternative to satisfiability
[CWI-OS-R8405] 19 p3092 N84-29638
On the Edgeworth expansion for the logarithm of the likelihood ratio, part 2
[CWI-MS-R8401-PT-2] 19 p3094 N84-29652
Locally 4-by-4 grid graphs
[CWI-PM-R8401] 19 p3095 N84-29659
Guidelines for the design of large modular scientific libraries in Ada
[CWI-NM-N8401] 20 p3275 N84-30792

CENTRAL ELECTRICITY GENERATING BOARD, LONDON (ENGLAND).
Influence of Ar + CO2 shielding on the composition of a Cr-Mo-V weld
[BLL-CE-TRANS-8000-(9022.09)] 06 p0851 N84-15550
Vibration-induced flux variation in the space between two concentric tubes
[BLL-CE-TRANS-7949-(9022.09)] 06 p0857 N84-15583
Mechanism and kinetics of the oxidation of the iodide ion by oxygen
[BLL-CE-TRANS-8005-(9022.09)] 19 p2987 N84-28924
Photochemical oxidation of hydrogen iodide by oxygen
[BLL-CE-TRANS-7989-(9022.09)] 19 p2987 N84-28925
Photochemical oxidation of hydrogen iodide by oxygen
[BLL-CE-TRANS-7988-(9022.09)] 19 p2987 N84-28926
Abrasive wear of steel during sliding or rolling
[BLL-CE-TRANS-8003-(9022.09)] 19 p2991 N84-28956
Wear behaviour of steel under the action of granular interfacial minerals
[BLL-CE-TRANS-8002-(9022.09)] 21 p3363 N84-31336

CENTRAL ELECTRICITY RESEARCH LABS., LEATHERHEAD (ENGLAND).
Measurements in steam turbines 06 p0840 N84-15476
Steam condenser thermal design theories 06 p0841 N84-15485

CENTRAL POWER RESEARCH INST., BANGALORE (INDIA).
A technical note on evaluation of dampers 10 p1507 N84-19859

CENTRAL WEATHER BUREAU (TAIWAN).
A study of tropical cyclone intensity from satellite imagery 24 p3956 N84-35048

CENTRE D'ESSAIS AERONAUTIQUE TOULOUSE (FRANCE).
Characterization of a sample of aluminum alloy longeron in 7050 T73652 of Alcoa origin. Summary of test number MO 570300 18 p2794 N84-27729
Torsional and axial hot fatigue characterization of the Z2 NKD 18-8-5 steel (maraging 250): Specimens obtained from a bar. Summary of test number M3 418700 18 p2815 N84-27874
Fracture mechanics characterization of the 15 CDV alloy at temperatures from -50 C to +20 C (welded joints). Summary of test number M4 495400 18 p2816 N84-27875
Fatigue evaluation of the molded T.A6V alloy isostatically compacted under heat. Summary of test number M9 505600 18 p2816 N84-27876
Material characterization by strain rate controlled low cycle fatigue tests and by crack propagation velocity: Summary of test number M3 430300
[IMI-679] 18 p2816 N84-27878
Characterization of common steels. Report of partial test Number M6-645900, Number 4 21 p3389 N84-31376

CENTRE D'ESSAIS EN VOL, BRETIGNY-AIR (FRANCE).
Thermal constraints in a helicopter during long duration flights under extreme climatic conditions 11 p1698 N84-21078

CENTRE D'ESSAIS EN VOL, BRETIGNY-SUR-ORGE (FRANCE).
The man-machine interface in new generation commercial aircraft 06 p0777 N84-15096

CENTRE D'ESSAIS EN VOL, ISTRES (FRANCE).
Aircraft operations from airfields with special unconventional characteristics 06 p0776 N84-15085
Real time flight test conduction and monitoring 24 p3850 N84-34414

CENTRE D'ETUDE SPATIALE DES RAYONNEMENTS, TOULOUSE (FRANCE).
The ISPM solar-flare X-ray and cosmic gamma-ray burst experiment 09 p1262 N84-18238
On the relationships between radar backscattering coefficient and vegetation canopy characteristics 23 p3766 N84-33882
Automatic analysis of bitemporal LANDSAT data: An application to the study of the evolution of vegetation-covered areas in a tropical region 23 p3768 N84-33887
Investigation of texturing functions. Application to ecographical zoning and to mapping land use in a sloping basin: The Aveyron
[CESR-83-1089] 23 p3784 N84-34001

CENTRE D'ETUDES ET DE RECHERCHES, TOULOUSE (FRANCE).
Characterization of high powered laser diodes 24 p3904 N84-34728

CENTRE D'ETUDES ET DE RECHERCHES DE MEDECINE AEROSPATIALE, PARIS (FRANCE).
Sustained physical activity in diverse situations: Metabolic and hormone data 11 p1698 N84-21077
Value of the tilt table in the exploration of circulatory function 11 p1701 N84-21095
Visual perception in systems management in aeronautics 22 p3632 N84-33017
Use of primate model in weightlessness bone physiology: General problems 23 p3809 N84-34154
Use of primate model in weightlessness bone physiology. Histological approach after iliac crest biopsy 23 p3809 N84-34155

CENTRE D'ETUDES ET DE RECHERCHES GEODYNAMIQUES ET ASTRONOMIQUES, GRASSE (FRANCE).
Comments on conventional terrestrial and quasi-inertial reference systems 07 p1029 N84-16669
Earth's rotation and its geophysical implications 24 p3904 N84-34720

CENTRE D'ETUDES TECHNIQUES DE L'EQUIPEMENT, AIX-EN-PROVENCE (FRANCE).
Operational utilization of remote sensing in a study of the impact of disposal of urban waste at sea 03 p0400 N84-12611

CENTRE DE RECHERCHES DU SERVICE DE SANTE DES ARMEES, CLAMART (FRANCE).
Use of changes in electrical impedance in cardiology 11 p1701 N84-21094
Visual function and the definition of thresholds for exposure to laser radiation 22 p3632 N84-33019

CENTRE DE RECHERCHES DU SERVICE DE SANTE DES ARMEES, LYONS (FRANCE).
Variations in states of alertness during continuous operations at the control post level 11 p1697 N84-21068
Psycho-ergonomic problems presented by the prolonged wearing of gas masks 11 p1698 N84-21073

CENTRE DE RECHERCHES EN PHYSIQUE DE L'ENVIRONNEMENT TERRESTRE ET PLANETAIRE, ORLEANS (FRANCE).
Project Porcupine: The MF mutual impedance probe experiment. Part 1: Flight F2 (March 1977)
[CRPE-NT-93-VOL-1] 05 p0705 N84-14624
Project Porcupine: The MF mutual impedance probe experiment. Part 2: Flights F3 and F4 (March 1979)
[CRPE-NT-94-VOL-2] 05 p0705 N84-14625

CENTRE DE RECHERCHES EN PHYSIQUE DE L'ENVIRONNEMENT, ISSY-LES-MOULINEAUX (FRANCE).
Radar investigation of soils and sea (ERASME): C band helicopter-borne scatterometer. Application to soil moisture measurement 03 p0396 N84-12588
Active sounder experiments on GEOS and ISEE 05 p0635 N84-14177

The ISPM unified radio and plasma wave experiment
09 p1262 N84-18237
Study of the 13 GHz signal attenuation due to tropical rains
[CRPE-NT-113] 13 p1984 N84-22879
Analysis of propagation conditions at 20 and 30 GHz in Europe
[CRPE-NT-122] 13 p1984 N84-22880
Compression algorithm for data analysis in a radio link (preparation of PACEM 2 experiment)
[CRPE-NT-121] 13 p1984 N84-22881
Evaporation from a bare soil evaluated from a soil water transfer model using remotely sensed surface soil moisture data
[CRPE-NT-125] 13 p2006 N84-23016
A middle latitude ionospheric model
[CRPE-NT-114] 13 p2012 N84-23049
User's manual of a program to compute the distribution of photoelectrons
[CRPE-NT-110] 13 p2012 N84-23054
Calm ionospheric dynamo. Part 1: Simulations carried out in 1981
[CRPE-NT-112-PT-1] 13 p2012 N84-23055
Fast evaluation of the numerical error rate in the presence of intersymbolic interference
[CRPE-NT-127] 13 p2029 N84-23158

CENTRE DE RECHERCHES METALLURGIQUES, LIEGE (BELGIUM).
Using recycled superalloys in precision casting
23 p3705 N84-33486

CENTRE DE RECHERCHES SCIENTIFIQUES ET TECHNIQUES DE L'INDUSTRIE DES FABRICATIONS METALLIQUES, BRUSSELS (BELGIUM).
The Grindomatic or the optimization of cutting conditions during production for plunge-cut grinding
[CRIF-MC-76] 07 p1012 N84-16569
Stresses in cylindrical shells with nozzles subjected to external loadings and internal pressure
[CRIF-MT-156] 07 p1017 N84-16597
Tests on steel I-beam columns subjected to thrust and biaxial bending
[CRIF-MT-157] 07 p1017 N84-16598
Computer programs for seismic analysis of piping systems with special reference to the power piping code B31.1
[CRIF-MT-158] 07 p1017 N84-16601
Study of different welded nipples in headers
[CRIF-MT-159] 21 p3415 N84-31655
Activities in metal manufacturing
23 p3727 N84-33618

CENTRE DE RECHERCHES SUR LES MACROMOLECULES, STRASBOURG (FRANCE).
Nuclear Magnetic Resonance (NMR) study of glass fiber-epoxy resin composites in the solid state
21 p3358 N84-31299

CENTRE HOSPITALIER UNIV. PURPAN, TOULOUSE (FRANCE).
Experimental investigation of the effect of electrets on bone healing
23 p3809 N84-34150

CENTRE NATIONAL D'ETUDES DES TELECOMMUNICATIONS, ISSY-LES-MOULINEAUX (FRANCE).
D-1 statistical model of tropospheric multipath propagation
15 p2322 N84-24944
Two types of errors made in prediction wave attenuation by rain
15 p2322 N84-24945
Effect of leap length on the quality of large capacity numerical linkages
15 p2324 N84-24954

CENTRE NATIONAL D'ETUDES DES TELECOMMUNICATIONS, LANNION (FRANCE).
Metal-free cylindrical v-grooved optical cable
11 p1724 N84-21244
Manufacture cables with low losses
11 p1725 N84-21256

CENTRE NATIONAL D'ETUDES SPATIALES, PARIS (FRANCE).
Spaceborne lasers in atmospheric research
24 p3904 N84-34721

CENTRE NATIONAL D'ETUDES SPATIALES, TOULOUSE (FRANCE).
SPOT (French satellite)
08 p1175 N84-17652
Typical SPOT data and products: Potential applications
08 p1175 N84-17653
Remote sensing for agriculture and land use
08 p1177 N84-17666
Electromagnetic design of a remote manipulator arm for space applications
09 p1295 N84-18462
Outline and evaluation of a spaceborne sodium heat pipe furnace with three compartments
10 p1440 N84-19407
Thermal control of the SPOT platform
10 p1441 N84-19411
Sun focusing by satellite antenna reflectors
10 p1445 N84-19439
Thermal control of the SPOT HRV instrument
10 p1445 N84-19441
A Maltese cross shaped mobile thermal control shutter
10 p1447 N84-19454
Geostationary satellite with Sun pointing platform and geocentric payload
10 p1447 N84-19455
Investigation of LANDSAT D Thematic Mapper geometric performance: Line to line and band to band registration
[E84-10187] 21 p3429 N84-31758
Comparison of sea surface wind speed fields by SEASAT radar altimeter, scatterometer and scanning multichannel microwave radiometer with an emphasis on the Southern Ocean
23 p3774 N84-33922
Optical data links for the STAR mission
24 p3905 N84-34730

CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, BESANCON (FRANCE).
Low temperature quartz crystal oscillator fast warm-up SAW oscillator
[AD-A138024] 12 p1811 N84-21806

CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, GARCHY (FRANCE).
Evaluation of the use of thermal airborne prospection for archaeology during the last 10 years
23 p3769 N84-33890

CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, GRENOBLE (FRANCE).
Mixed convection and stratification phenomena in liquid metals
06 p0842 N84-15488
Studies on sodium boiling phenomena in out of pile rod bundles for various accidental situations in Liquid Metal Fast Breeder Reactors (LMFBR) experiments and interpretations
06 p0842 N84-15493
Computation of the thermohydraulics in subassemblies for accident situations
06 p0843 N84-15499

CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, MULHOUSE (FRANCE).
Formation and destruction of organic pollutants in thermal systems and flames
15 p2291 N84-24752

CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, ORLEANS (FRANCE).
Activities report of the Laboratory of Environmental Physics and Chemistry
03 p0450 N84-12963
Theoretical influence of the deposition conditions on the uniformity of boron carbide coatings
13 p1954 N84-22707
Mechanism of soot formation in preximed C2H2/O2 flames
13 p1958 N84-22727
A shock tube study of chlorine azide decomposition
13 p1958 N84-22728
The onset of detonation behind incident shock waves in chlorine azide-argon mixtures
13 p1990 N84-22921
Kinetic studies of atmospheric reactions of OH radicals
13 p2012 N84-23050
Kinetics and products of the reaction OH + HNO3
13 p2012 N84-23051
Thermodynamics and kinetics of the gas phase and pack aluminide coating formation on iron and steel
13 p2049 N84-23291
Experimental study and modeling of the kinetics of hydrocarbon combustion
15 p2292 N84-24754
Adsorption of hydrocyanic acid on Lewis acid sites of silicon dioxide
17 p2620 N84-26767
Experimental and theoretical study of NOx by reduction by NHi in gas phase
17 p2724 N84-27340

CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, PARIS (FRANCE).
Stellar atmospheric structural patterns
[NASA-SP-471] 09 p1414 N84-19253
Sampling problems and cloud statistics
10 p1534 N84-20048
Ariane V8 - Intelsat V F8
16 p2456 N84-25746

CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, POITIERS (FRANCE).
A study of the fundamental problems of combustion in the combustion chambers of turbojets using a tubular reactor
15 p2293 N84-24759

CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, STRASBOURG (FRANCE).
A textural image of Algiers
23 p3784 N84-33996

CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, TOULOUSE (FRANCE).
On the relationships between radar backscattering coefficient and vegetation canopy characteristics
23 p3768 N84-33882
Automatic analysis of bitemporal LANDSAT data: An application to the study of the evolution of vegetation-covered areas in a tropical region
23 p3768 N84-33887

CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, VERRIERES-LE-BUISSON (FRANCE).
Remote sensing instruments for trace species measurements in the troposphere and stratosphere: A review
03 p0396 N84-12583
Thin metal film and multilayers experiment (A0138-3)
15 p2278 N84-24680
Spaceborne lidar applications to meteorology and environmental studies
24 p3904 N84-34725
An ER-2 aircraft airborne lidar as part of the development program of a spaceborne system: A potential NASA/CNES cooperative project
24 p3907 N84-34744

CENTRE NATIONAL DE RECHERCHES DE L'ESPACE, BRUSSELS (BELGIUM).
Space research in Belgium, 1982-1983
20 p3321 N84-31084

CENTRE NATIONAL POUR L'EXPLOITATION DES OCEANS, BREST (FRANCE).
Application of high resolution satellite data to coastal zones: SPOT simulations during ecological survey of the Britanny coast
03 p0397 N84-12591

CENTRE OCEANOLOGIQUE DE BRETAGNE, BREST (FRANCE).
Coastal zones inventory by high resolution satellites
08 p1176 N84-17661

CENTRE PRINCIPAL D'EXPERTISES MEDICALES DU PERSONNEL NAVIGANT DE L'AERONAUTIQUE, PARIS (FRANCE).
Main electrocardiographic abnormalities in the medical examination of flying personnel
11 p1699 N84-21083
Contribution of standard X-ray to cardiovascular exploration during the clinical examination of flying personnel
11 p1700 N84-21088
Contribution of cardiac mechanograms in the expert examination of flying personnel
11 p1700 N84-21089
Exploration of arterial function using Doppler flow determination. Application to aeronautical and space medicine
11 p1700 N84-21091

CENTRE TECHNIQUE DES INDUSTRIES MECANIQUES, NANTES (FRANCE).
Development of normalized operative mode for making deposits for chemical analysis in MIG/MAG welding
[CETIM-I.S.13.826] 21 p3362 N84-31331
Influence of copper on MAG deposits
[CETIM-12-Y-431] 21 p3369 N84-31375
Improving comfort of welders by reducing preheating temperatures
[CETIM-12-Y-413] 21 p3414 N84-31651
Investigation of in position end to end welding of an aluminum alloy by electron beam
[CETIM-12-Y-442] 21 p3414 N84-31652
Preliminary investigation of ways to improve the strength of vertical electroslag welding
[CETIM-100-020] 21 p3415 N84-31654

CENTRE TECHNIQUE DES INDUSTRIES MECANIQUES, SENLIS (FRANCE).
Test rig for measuring hydraulic equipment noise
[CETIM-41-H-337] 21 p3345 N84-31224
Deposits on light alloys
[CETIM-12-F-380] 21 p3368 N84-31371
Pulsed current hard chromium plating
[CETIM-12-F-390] 21 p3369 N84-31372
Hydrogen fatigue test
[CETIM-12-F-400] 21 p3369 N84-31373
Gaseous cementation in nitrogen-methanol atmospheres
[CETIM-12-G-284] 21 p3369 N84-31374
Ammonia boiling in long tubes. Heat transfer and charge loss in vertical and horizontal tubes
[CETIM-14-C-011] 21 p3403 N84-31588
Comparative study of heat pump regulation systems. The problem of defrosting evaporators
[CETIM-100250] 21 p3403 N84-31589
Measure of mass flow rate in gas-solid two phase fluids; application to pneumatic transport
21 p3403 N84-31590
In situ goniometer
[CETIM-5.41.22.0] 21 p3407 N84-31609
Compressed air exhaust silencers, summary
[CETIM-11-H-275] 21 p3414 N84-31650
Lubrication during cutting: Wear and friction
[CETIM-13-Y-322] 21 p3414 N84-31653
Design of an abrasion test under high stress. Application to the characterization of manganese steel quality assurance
[CETIM-12-D-081] 21 p3415 N84-31659
Nondestructive testing of bonding by ultrasonic analysis: Preliminary study report proposed investigation program
[CETIM-13-V-010] 21 p3416 N84-31660
Computer aided ultrasonic testing
[CETIM-15-H-404] 21 p3416 N84-31661
Application of measurements of the propagation velocity of ultrasonic Rayleigh waves to surface inspection of materials
[CETIM-15-H-417] 21 p3416 N84-31662
Extension of finite element programs to thermoelastoviscoplastic domains
[CETIM-11-A-102] 21 p3424 N84-31716
Transient 3-dimensional thermoelasticity by the integral equations method
[CETIM-11-B-071] 21 p3424 N84-31717

Simplified approach to two-dimensional cyclic plasticity problems
[CETIM-11-B-110] 21 p3424 N84-31718
Preliminary study on elastoplasticity in large transformations
[CETIM-11-E-360] 21 p3424 N84-31719
The hole drilling method for residual stress distribution measurement
[CETIM-100730] 21 p3424 N84-31720
NONAX-TRANAX-CASTOR 2D
[CETIM-100940] 21 p3424 N84-31721
Fracture mechanics formulas on microcomputers
[CETIM-100960] 21 p3424 N84-31722
Signal analysis and data processing system (acoustic and vibratory)
[CETIM-11-H-50-9] 21 p3467 N84-31981
Investigation of criteria enabling a two-dimensional grid to evolve while minimizing errors
[CETIM-100980] 21 p3467 N84-31982
Optical density radiation dose relationship
[CETIM-100680] 21 p3497 N84-32162

CENTRE TECHNIQUE DES INDUSTRIES MECANIQUES, ST. ETIENNE (FRANCE).
Bonding prospectives in Japan
[CETIM-100-14-0] 21 p3372 N84-31397
Creep of six glues
[CETIM-1.3N.16.2] 21 p3372 N84-31398
Automation of a stamping press using sequential hydraulic manipulators
[CETIM-1-4N-090] 21 p3376 N84-31422
Automation of a drop forge at the Centre Techniques des Industries Mecaniques (CETIM) forge section
[CETIM-1.3K.27.3] 21 p3376 N84-31423
Industrial forging applications of shaping simulation using modeling clay
[CETIM-1.3K.36.2] 21 p3376 N84-31424
Construction of a test bench for closed die forging
[CETIM-5.580.50] 21 p3376 N84-31425
Influence of choice of steel on forging
[CETIM-1.3K.32.1] 21 p3416 N84-31663
State of techniques for crackling varnishes and problems posed by their application
[CETIM-1.5C.23.1] 21 p3424 N84-31723
Improvement of the equipment of very long horizontal tensile test bench
[CETIM-5.510.05] 21 p3424 N84-31724
Preliminary investigations of means to transfer computer programs to the forging industry
[CETIM-1.3K.38.2] 21 p3467 N84-31983
Study of numerical control systems for machines. Integration in flexible workshops and units
[CETIM-1.3T.042] 21 p3470 N84-31991

CENTRO INFORMAZIONI STUDI ESPERIENZE, MILAN (ITALY).
An instrument for the characterization of defects in ultrasonic inspections
[CISE-2073] 05 p0690 N84-14533
A comparison between new and traditional ultrasonic techniques on thick welds in pressure vessels
[CISE-2074] 05 p0690 N84-14534
Radioactivity levels in humid and dry fallout gathered in the last 20 years in some points of the Padana Valley (Italy)
[CISE-2069] 05 p0701 N84-14598
The Centro Informazioni Studi Esperienze (CISE) activity in background radioactivity
[CISE-2070] 05 p0701 N84-14599
Sediment radioactivity in the stretch of the Po river from Monte Trino to Valle Caorso: Some results for the period 1978-82
[CISE-2071] 05 p0701 N84-14600
The use of microprocessors for the instrumentation of nondestructive tests
[CISE-2072] 06 p0855 N84-15571
The use of matrix transducers in medium thickness welding inspection
[CISE-2075] 06 p0855 N84-15572
The debugging of real time multiprocessor systems: An integrated solution proposal
[CISE-2067] 06 p0899 N84-15837
A 2-phase flow model for the diffused cavitation study
[CISE-2109] 07 p1004 N84-16514
Assessment of indoor dose from gamma ray emitters and radon daughters in Milan
[CISE-2118] 07 p1073 N84-16974
On-line monitoring of the true corrosion rate in power plants
[CISE-2156] 16 p2465 N84-25796
Microwave detection of surface and volume moisture in building walls and related structures
[CISE-2111] 16 p2481 N84-25912
Heap pumps marketing problems and the role played by the financial incentives provided by the law 308/82
[CISE-2149] 16 p2487 N84-25950
Environment-independent homogenized parameters for neutron diffusion in non-symmetric slabs
[CISE-2117] 16 p2555 N84-26392
GAME: An interactive graphic system for automatic mesh generation
[CISE-2211] 20 p3275 N84-30790

CENTRO STUDI E LABORATORI TELECOMUNICAZIONI, TURIN (ITALY).
Computerized simulation of multipath fading for mobile radio systems 10 p1477 N84-19647

CER CORP., LAS VEGAS, NEV.
Geologic study of the Wind River Basin, Fremont and Natrona Counties, central Wyoming
[PB83-254912] 03 p0409 N84-12677

CESKOSLOVENSKA AKADEMIE VED, BRNO.
Stellar Spectra and Their Interpretation. 1st conference of the Subcommission No. 2 15 p2421 N84-25540

CESKOSLOVENSKA AKADEMIE VED, ONDREJOV.
Differential rotation of solar background magnetic fields during the 20th solar cycle 09 p1410 N84-19214
Partial frequency redistribution in subordinate lines 15 p2421 N84-25543
Radiative transfer in Roche coordinates 15 p2421 N84-25544
On the origin of Be phenomenon 15 p2422 N84-25552
A computer program for calculating non-LTE model stellar atmospheres 15 p2423 N84-25554

CESKOSLOVENSKA AKADEMIE VED, PRAGUE.
Gravito-magnetic origin of the temperature of a stellar corona 15 p2421 N84-25545

CETA, ANGOULEME (FRANCE).
Terminal control for command to line of sight guided missile 21 p3350 N84-31252

CHALMERS UNIV. OF TECHNOLOGY, GOTEBORG (SWEDEN).
Branching processes in periodically varying environment
[CTH-MATH-1983-12-PREPRINT] 03 p0426 N84-12792
On space-time means and everywhere defined scattering operators for nonlinear Klein-Gordon equations
[CTH-MATH-1983-13-PREPRINT] 03 p0426 N84-12793
The queue G/G/1: Finite moments of the cycle variables and uniform rates of convergence
[CTH-MATH-1983-18] 07 p1068 N84-16933
Implication and equivalence among statistical inference rules
[CTH-MATH-1983-21] 07 p1068 N84-16937
Dual channel water vapor radiometer system
[PB84-119445] 08 p1189 N84-17746
Loeb solutions of the Boltzmann equation
[CTH-MATH-1983-82] 13 p1991 N84-22926
Formulas for the L-2 minimal solutions of the Delta Delta bar equation in the unit ball of C sup N
[CTH-MATH-1983-16-PREPRINT] 13 p2034 N84-23189
The early roots of Babylonian mathematics. Part 3: Three remarkable texts from Elba
[CTH-MATH-198314-PT-3] 13 p2034 N84-23197
A posteriori error analysis in L sub p norms for the finite element method
[CTH-MATH-1983-15] 13 p2035 N84-23198
Poisson integrals of absolutely continuous and other measures
[CTH-MATH-1983-10] 13 p2036 N84-23210
Geometric bounds on the Ornstein-Uhlenbeck velocity process
[CTH-MATH-1983-17] 13 p2037 N84-23212
An interpolation type inequality for a discrete weighted norm
[CTH-MATH-1983-30] 13 p2037 N84-23213
The queue G/G/k: Finite moments of the cycle variables and uniform rates of convergence
[CTH-MATH-1983-24] 13 p2037 N84-23218
Analysis of a fully discrete scheme for the neutron transport in cylindrical geometry
[CTH-MATH-1984-1] 13 p2041 N84-23246
On the reduction procedure for weak convergence of measures
[CTH-MATH-1983-19] 14 p2215 N84-24306
Best approximation in L sub p (W) by algebraic polynomials
[CTH-MATH-1983-20] 14 p2215 N84-24307
Hitting probabilities of killed Brownian motion: A study on geometric regularity
[CTH-MATH-1983-11] 14 p2219 N84-24314
On the Kakeya problem
[CTH-MATH-1983-23] 17 p2759 N84-27520
An infinite L: Estimate for the delta bar equation in the ball in C sup N
[MATH-MATH-1983-29] 17 p2759 N84-27521
Supremum convolutions and Greenian potentials in a special case
[CTH-MATH-1983-31] 17 p2759 N84-27522
Continuous singular probability measures that are almost lattice
[CTH-MATH-1983-26] 17 p2760 N84-27529
On coupling of renewal processes with use of failure rates
[CTH-MATH-1983-27] 17 p2760 N84-27530
Resolution of singularities of integral quadratic forms
[CTH-MATH-1983-22] 17 p2761 N84-27538
On K-theory of conical fibrations
[CTH-MATH-1983-25] 17 p2761 N84-27540
A note on a cyciotomic diophantine equation
[CTH-MATH-1983-28] 17 p2762 N84-27541
An optimal control problem in the study of liver kinetics
[CTH-MATH-1984-10] 19 p3084 N84-29439
Interpolation of weighted L sub P and Soboiev spaces on intervals
[CTH-MATH-1984-04] 19 p3090 N84-29622
Boundary problems and large deviation results for queue length processes
[CTH-MATH-1984-05] 19 p3090 N84-29623
Some results on the diophantine equation X-2+D=Y-N
[CTH-MATH-1984-06] 19 p3091 N84-29624
Solution formulas for the delta delta bar equation and weighted Nevanlinna classes in the polydisk
[CTH-MATH-1984-07] 19 p3091 N84-29625
On regenerative and ergodic properties of the k-server queue with nonstationary Poisson arrivals
[CTH-MATH-1984-2] 19 p3094 N84-29648
Random capacities and their distributions
[CTH-MATH-1984-03] 19 p3094 N84-29649
Backward limits of non-time-homogeneous regenerative processes
[CTH-MATH-1984-09] 19 p3095 N84-29654
Active sound reduction: A study of recent developments and some future possibilities
[F83-06] 20 p3292 N84-30899
Ground-based remote sensing of temperature and water vapor by passive microwave radiometers 23 p3774 N84-33925
Local and global existence and behavior for t tends to infinity Navier-Stokes equations
[CTH-MATH-1984-08] 23 p3818 N84-34214
Multiparameter maximal functions along dilation-invariant hypersurfaces
[CTH-MATH-1984-11] 23 p3819 N84-34215
On Chow groups of conic bundle surfaces
[CTH-MATH-1984-12] 23 p3820 N84-34228
On numerical methods in non-Newtonian flows
[DE84-701276] 24 p3899 N84-34691

CHAM OF NORTH AMERICA, INC., HUNTSVILLE, ALA.
Rocket injector anomalies study. Volume 1: Description of the mathematical model and solution procedure
[NASA-CR-174702] 22 p3543 N84-32428
Rocket injector anomalies study. Volume 2: Results of parametric studies
[NASA-CR-174703] 22 p3543 N84-32429

CHAMBER OF MINES, JOHANNESBURG (SOUTH AFRICA).
The unique surface properties of gold 06 p0815 N84-15310
Investigations into the use of ice for cooling deep mines 11 p1641 N84-20728

CHARLES F. KETTERING RESEARCH LAB., YELLOW SPRINGS, OHIO.
Particulate models of photosynthesis
[DE84-003947] 12 p1863 N84-22142

CHEM TRONICS, INC., EL CAJON, CALIF.
Rigid closed-cell polyimide foams for aircraft applications and foam-in-place technology
[NASA-CR-171805] 22 p3559 N84-32535

CHEMICAL DYNAMICS CORP., COLUMBUS, OHIO.
Theoretical predictions of excitation cross sections for collisions of HF, HCl, CO, H2O, and CO2 with O(P-3) 13 p1942 N84-22630
Prediction of thermal rate constants for combustion reaction
[AD-A140736] 17 p2619 N84-26760

CHEMICAL ENGINEERING RESEARCH GROUP, PRETORIA (SOUTH AFRICA).
Fischer-Tropsch synthesis in slurry reactors: Summary and analysis of the state of the art
[CSIR-CENG-432] 04 p0493 N84-13234
The effect of surface charge on the rheology of concentrated aqueous quartz suspensions
[CSIR-CENG-423] 04 p0493 N84-13235
The role of the tetrapropylammonium template in the synthesis of zeolite ZSM-5
[CSIR-CENG-413] 04 p0493 N84-13236

CHEVRON OIL FIELD RESEARCH CO., LA HABRA, CALIF.
Geologic application of spaceborne radars
07 p0987 N84-16391
CHEVRON RESEARCH CO., LOS ANGELES, CALIF.
High-efficiency solar cells fabricated by vacuum MO-CVD
19 p3047 N84-29329
CHIBA UNIV. (JAPAN).
A unified approach to composite MVL with monotonic subfunction
[AD-P002368] 14 p2194 N84-24159
Random-choice solutions for two-dimensional and axisymmetric supersonic flows 20 p3168 N84-30115
CHICAGO UNIV., ILL.
Origin of the ultra-high-energy cosmic rays
[DE83-013760] 02 p0309 N84-12025
Measurements, in vivo, of parameters of the dopamine system
[DE83-017964] 03 p0414 N84-12709
Fundamentals and techniques of nonimaging optics, volume 2
[DE83-015447] 03 p0442 N84-12902
Direct coronal heating from dissipation of magnetic field
03 p0466 N84-13069
Study of ion-solid interactions and material characterization with a new high-resolution scanning ion probe
[AD-A133896] 05 p0647 N84-14257
Ambiguity and uncertainty in probabilistic inference
[AD-A133418] 06 p0905 N84-15872
A theory of diagnostic inference: Judging causality
[AD-A133172] 07 p1049 N84-16796
Submillimeter astronomy at the NASA/University of Hawaii 3-meter infrared telescope facility
[NASA-CR-173269] 07 p1089 N84-17083
The ISPM cosmic-ray and solar-particle investigation
09 p1262 N84-18236
Prochloron expedition
10 p1544 N84-20120
Learning in a probabilistic environment: A new approach, and some preliminary findings
[AD-A137031] 10 p1551 N84-20162
A theory of diagnostic inference
[AD-A137032] 10 p1551 N84-20163
High-temperature inclusions in the Murchison meteorite
11 p1755 N84-21454
Design optimization studies for nonimaging concentrating solar collector tubes
[DE84-001368] 12 p1843 N84-22017
Topics in finite time thermodynamics
[DE84-009057] 15 p2416 N84-25502
Theoretical high energy physics research
[DE84-009785] 19 p3103 N84-29716
Optimal measurement of ice-sheet deformation from surface-marker arrays
[NASA-CR-173877] 22 p3622 N84-32950
Extensions of electron stimulated desorption measurements. Investigation of gas adsorption on Cu layers deposited on a tungsten (110) surface
[AD-A143779] 23 p3714 N84-33539
Analysis of Doppler lidar wind measurements
24 p3929 N84-34868
Analysis of satellite data for sensor improvement (detection of severe storms from space)
24 p3932 N84-34889
CHILLCAST, INC., MARION, OHIO.
Process development of making bearings and bushings from continuous-cast SAE 660 bronze alloy plate
[DE83-014234] 01 p0057 N84-10374
CHINESE ACADEMY OF SCIENCES, PEKING.
Periodicities in the occurrence of aurora as indicators of solar variability
03 p0470 N84-13093
CHINESE AERODYNAMIC RESEARCH AND DEVELOPMENT CENTER, MIANYANG.
The 6M x 8M low speed wind tunnel
21 p3345 N84-31221
CHLORIDE SILENT POWER LTD., RUNCORN (ENGLAND).
The preparation of sodium beta-alumina by the isostatic pressing and zone sintering of spray dried powders
11 p1744 N84-21377
CHONGQUING UNIV. (CHINA).
Four-valued logic star algorithm and their applications
[AD-P002370] 14 p2194 N84-24161
CHR. MICHELSEN INST., BERGEN (NORWAY).
Mapping the Fram Strait ice edge using AVHRR imagery and NOAA satellite orbital data
23 p3773 N84-33915
CHRISTOPHER NEWPORT COLL., NEWPORT NEWS, VA.
Photoelectrochemical cells including chalcogenophosphate photoelectrodes
[NASA-CASE-LAR-12958-1] 13 p2007 N84-23019
CHRONOS RESEARCH LABS., INC., OLIVEHAIN, CALIF.
Pyroelectric conversion in space: A conceptual design study
[NASA-CR-168272] 05 p0699 N84-14585
CHRYSLER CORP., HUNTSVILLE, ALA.
Aerothermodynamic data base, phase C
[NASA-CR-173862] 21 p3351 N84-31259
CHRYSLER CORP., MICHOUD, LA.
Results of the AFRSI detailed-environment test of the 0.035-scale SSV pressure-loads model 84-0 in the Ames 11x11 ft. TWT and the Lewis 8x6 ft. and 10x10 ft. SWT (OA-310A, B, C), volume 2
[NASA-CR-167686] 21 p3351 N84-31260
Results of the AFRSI detailed-environment test of the 0.035-scale SSV pressure-loads model 84-0 in the Ames 11x11 ft. TWT and the Lewis 8x6 ft. and 10x10 ft. SWT (OA-310A, B, C), volume 1
[NASA-CR-167685] 21 p3352 N84-31261
CHRYSLER CORP., NEW ORLEANS, LA.
Compiling the space shuttle wind tunnel data base: An exercise in technical and managerial innovators
01 p0026 N84-10166
Test Report for MSFC Test No. 83-2: Pressure scaled water impact test of a 12.5 inch diameter model of the Space Shuttle solid rocket booster filament wound case and external TVC PCD
[NASA-CR-170901] 01 p0029 N84-10181
Post-test data report for the space shuttle full-scale AFRSI sequence of environments test (OS-305-1 to -5) in the NASA/Ames Research Center 11x11-foot wind tunnel
[NASA-CR-167684] 13 p1938 N84-22603
Pretest plan for a quarter scale AFT segment of the SRB filament wound case in the NSWC hydroballistics facility
[NASA-CR-171028] 15 p2281 N84-24699
Water impact test of aft skirt end ring, and mid ring segments of the Space Shuttle Solid Rocket Booster
[NASA-CR-171027] 16 p2457 N84-25752
Aerothermodynamic data base
[NASA-CR-171807] 22 p3541 N84-32415
CHU ASSOCIATES, INC., LITTLETON, MASS.
Reflector antennas with low sidelobes, low cross polarization, and high aperture efficiency
[NASA-CR-174670] 21 p3383 N84-31464
CHUBY ELECTRIC POWER CO. (JAPAN).
Study of latent heat storage system used heat pipes for cooling of underground cables
20 p3170 N84-30127
CHUNG CHENG INST. OF TECH. (TAIWAN).
An automated technique for determining cloud velocity from GMS data. 1: The design and construction of a scanning converter
24 p3956 N84-35049
CHUNG YUAN UNIV., CHUNG LI (TAIWAN).
Stability analysis of elastic-plastic rectangular plate with opening
24 p3958 N84-35062
CIBA-GEIGY A.G., BASEL (SWITZERLAND).
New data on long term stabilization of polyethylene for telecommunication wire insulation
11 p1721 N84-21227
CIBA-GEIGY CORP., ARDSLEY, N.Y.
Development of a stable epoxy resin system for composite repair
[AD-A135390] 08 p1137 N84-17395
CIBA-GEIGY (PTY) LTD., BIEL (SWITZERLAND).
Resin bonding of structural members
09 p1291 N84-18432
CIRCUIT TECHNOLOGY, INC., FARMINGDALE, N.Y.
MIL-STD-1553B Marconi LSI chip set in a remote terminal application
[AD-P003538] 21 p3332 N84-31142
CINCINNATI UNIV., OHIO.
Structure and properties of polymers and organosilanes adsorbed onto oxidized aluminum and titanium
[AD-A130753] 01 p0050 N84-10321
A conformal mapping technique for nonsymmetric potential flows with separation 02 p0173 N84-11138
Modelling of submerged cable dynamics
[AD-A132495] 04 p0544 N84-13580
User's manual for CABLE: A three-dimensional, finite-segment computer code for submerged and partially submerged cable systems
[AD-A132515] 04 p0579 N84-13821
Investigation of small particle trajectories through turbomachinery environments 05 p0630 N84-14142
Small-angle X-ray scattering study of micelle formation in mixtures of butadiene homopolymer and styrene-butadiene block copolymer
[AD-A133645] 05 p0659 N84-14330
Integration of detectors with optical waveguide structures
[AD-A133855] 05 p0674 N84-14430
Global pressure relaxation procedure for laminar and turbulent incompressible flows with strong interaction and separation 05 p0683 N84-14490
Elevated temperature low cycle fatigue of nickel base superalloys in the conventionally cast, directionally solidified and single crystal forms
[AD-A133598] 06 p0806 N84-15253
A comprehensive numerical study and experimental verification of endochronic plasticity
06 p0856 N84-15579
A thermodynamically consistent constitutive model for inelastic flow of materials 06 p0857 N84-15581
Turbine blade testing methods
[NASA-CR-170982] 09 p1256 N84-18201
Analysis of three-dimensional viscous internal flows
[AD-A135762] 09 p1315 N84-18592
Reinforced concrete response to near field explosions
[AD-A135876] 09 p1332 N84-18696
Polyreference software
[NASA-CR-170981] 09 p1386 N84-18918
TICA (Torsion Impregnated Cloth Analysis) study of high-temperature thermoplastics
[AD-A137048] 10 p1468 N84-19586
Solution of particulated viscous flow over a two dimensional cylinder and in a radial inflow turbine
10 p1496 N84-19782
Inelastic strong interactions at high energies
[DE84-005666] 11 p1745 N84-21388
Effect of polydispersity on the cloud point curves of polymer mixtures
[AD-A143159] 21 p3370 N84-31384
A direct numerical method for the solution of unsteady Navier-Stokes equations in generalized orthogonal coordinates 21 p3397 N84-31549
Inelastic strong interactions at high energies
[DE84-013647] 22 p3655 N84-33170
Structure and properties of polymers and organosilanes absorbed onto oxidized aluminum and titanium
[AD-A143935] 23 p3724 N84-33599
Forms of large folds in the Central Appalachians, Pennsylvania 23 p3795 N84-34066
CITADEL COLL., CHARLESTON, S.C.
An interpolation and compaction technique for gridded data
[AD-A137107] 10 p1569 N84-20276
CITIZENS FOR COMMUNITY IMPROVEMENT, COUNCIL BLUFFS, IOWA.
Wind electric generator project
[DE84-006747] 12 p1843 N84-22013
CITY COLL. OF THE CITY UNIV. OF NEW YORK.
Computer simulator for a mobile telephone system
[NASA-CR-174533] 01 p0061 N84-10401
Acquisition, image and data compression
[AD-A131923] 03 p0360 N84-12344
Semiconductors investigated by time resolved raman absorption and photoluminescence spectroscopy using femtosecond and picosecond laser techniques
[AD-A131860] 03 p0379 N84-12466
Investigation of digital encoding techniques for television transmission
[NASA-CR-171734] 07 p0991 N84-16421
Melting phenomena investigated by laser light scattering
[DE84-002004] 07 p1010 N84-16554
Oceanographic and meteorological research based on the data products of SEASAT
[E84-10077] 07 p1021 N84-16624
Theory and modeling of atmospheric turbulence, part 1
[NASA-CR-3787] 09 p1348 N84-18805
Space environment effects (M0006)
15 p2279 N84-24690
Vector wind, horizontal divergence, wind stress and wind stress curl from SEASAT-SASS at one degree resolution
17 p2720 N84-27313
Semiconductors investigated by time resolved Raman absorption and photoluminescence spectroscopy using femtosecond and picosecond laser techniques
[AD-A141381] 19 p3029 N84-29209
Synoptic scale wind field properties from the SEASAT SASS
[E84-10169] 21 p3426 N84-31732
Radiation pressure on atoms: Laser cooling and intense field effects
[AD-A143637] 23 p3754 N84-33793
Optical acquisition, image and data compression
[AD-A143984] 23 p3816 N84-34197
Spread spectrum, acquisition and tracking
[AD-A144533] 24 p3895 N84-34668
Group-kinetic scaling as a basis for modeling large scale turbulence 24 p3926 N84-34848
CITY COLL. RESEARCH FOUNDATION, NEW YORK.
Theory and modeling of atmospheric turbulence, part 2
[NASA-CR-3817] 19 p3057 N84-29398
CITY OF PORTLAND, OREG.
The Electric Vehicle Project
[DE84-011788] 21 p3522 N84-32309
CITY UNIV., LONDON (ENGLAND).
Eye spectral sensitivity and its variation with luminance level
[RAE-TR-83043] 09 p1361 N84-18892

CITY UNIV. INST. OF MARINE AND ATMOSPHERIC SCIENCES, NEW YORK.
A SEASAT SASS simulation experiment to quantify the errors related to a + or - 3 hour intermittent assimilation technique
[E84-10129] 14 p2168 N84-23987
CITY UNIV. OF NEW YORK, N. Y.
Algorithms for nonlinear programming
[AD-A130903] 01 p0122 N84-10796
The effect of opacity on theoretical models of RR Lyrae stars 04 p0619 N84-14081
Large scale galactic shocks and motions of the cloud medium 04 p0620 N84-14089
Low rate transmission of video signals using adaptive delta modulation
[AD-A133145] 06 p0823 N84-15363
Impedance relaxation spectrum analysis of oxidized silver electrodes
[AD-A138380] 12 p1793 N84-21693
Study of the initial stages of anodic oxidation of polycrystalline silver in KOH solutions
[AD-A138381] 12 p1793 N84-21694
Porous electrodes 1: Numerical simulation using random network and single pore models
[AD-A138382] 12 p1793 N84-21695
Liquid-phase photoionization detector for liquid chromatography 13 p1955 N84-22711
Research in the area of laser modified atomic physics
[AD-A139387] 14 p2222 N84-24335
Non-geometrical optics investigation of mode conversion in weakly relativistic inhomogeneous plasmas
[DE84-012396] 20 p3306 N84-31002
CIVIL AEROMEDICAL INST., OKLAHOMA CITY, OKLA.
Combustibility of electrical wire and cable for rail rapid transit systems. Volume 2: Toxicity
[DOT-TSC-UMTA-83-4.2-VOL-2] 02 p0217 N84-11421
An analysis of potential protective breathing devices intended for use by aircraft passengers
[AD-A132648] 05 p0716 N84-14692
The 1980 and 1981 accident experience of civil airmen with selected visual pathology
[AD-A134898] 08 p1101 N84-17158
Anthropometric and mass distribution characteristics of the adult female, revised
[AD-A143096] 21 p3457 N84-31939
CIVIL AERONAUTICS BOARD, WASHINGTON, D.C.
Deregulating the airlines: An economic analysis
[PB83-250019] 04 p0617 N84-14070
Economic cases of the Civil Aeronautics Board, Volume 101, April 1983 to May 1983
[PB84-127695] 09 p1405 N84-19183
Economic cases of the Civil Aeronautics Board, Volume 102, June 1983 to July 1983
[PB84-127703] 09 p1405 N84-19184
Airport activity statistics of certificated route air carriers
[AD-A137418] 10 p1424 N84-19313
Voluntary accounting systems for a small air carrier: Revenues, financial and traffic statistics
[PB84-210996] 22 p3533 N84-32369
Economic cases of the Civil Aeronautics Board, volume 104, October - November 1983
[PB84-209287] 22 p3533 N84-32370
CIVIL AVIATION AUTHORITY, REDHILL (ENGLAND).
The Civil Aircraft Airworthiness Data Recording Programme 06 p0775 N84-15079
Civil aircraft windscreen damage due to birdstrikes
[AD-P003214] 17 p2594 N84-26627
Windshield problems on UK operated transport sized jet aircraft 1976 to 1982
[AD-P003228] 17 p2596 N84-26641
CLAREMONT GRADUATE SCHOOL, CALIF.
Motivation and work performance: A comparative and analytical study 17 p2747 N84-27441
CLARK UNIV., WORCESTER, MASS.
Splice and Malcev algebras 04 p0593 N84-13911
CLARKSON COLL. OF TECHNOLOGY, POTSDAM, N.Y.
Material characterization of structural adhesives in the lap shear mode
[NASA-CR-172237] 02 p0199 N84-11294
The AGCE related studies of baroclinic flows in spherical geometry
[NASA-CR-170934] 03 p0371 N84-12415
Raman and fluorescent scattering by molecules embedded in small particles
[DE84-001278] 04 p0597 N84-13937
Nonlinear vibrations of plates: A review 10 p1505 N84-19842
Dynamic simulation of structural systems with isolated nonlinear components 10 p1510 N84-19885
Electrocatalysis of fuel cell reactions: Investigation of alternate electrolytes
[NASA-CR-173261] 10 p1529 N84-20013
Numerical study of heat transfer in turbulent shear flow
[DE84-005106] 11 p1655 N84-20802
A numerical technique in the hydrodynamic theory of foil bearings
[AD-P002966] 14 p2200 N84-24204
Use of the Burton-Prim-Slichter equation at high growth rates 18 p2936 N84-28622
Nonlinear wave propagation
[AD-A141098] 19 p3004 N84-29038
Advanced studies of integrable systems
[AD-A144122] 24 p3959 N84-35069
CLEMSON UNIV., S.C.
An investigation of thermal characteristics of plate-in-tube solar receivers 01 p0101 N84-10658
Fire and smoke retardants 04 p0510 N84-13343
Synthetic and mechanistic studies in fluorine chemistry. New developments in organonitrogen fluorine chemistry
[AD-A132844] 05 p0650 N84-14274
Fracture behavior of unidirectional boron/aluminum composite laminates
[NASA-CR-3753] 06 p0797 N84-15196
The dynamic response characteristics of a viscoelastic beam on periodically-spaced, viscoelastic supports 06 p0862 N84-15819
Spinning mode acoustic radiation from the flight inlet
[NASA-CR-172273] 06 p0908 N84-15896
Sensor control of robot arc welding 06 p0931 N84-16047
Use of digitized radar and microcomputers to forecast local floods and irrigation needs
[PB84-105568] 08 p1192 N84-17767
Strength of anchor bolts in masonry
[PB84-111160] 09 p1297 N84-18479
Intramolecular energy transfer reactions as a method for metal complex assisted production of hydrogen
[DE84-004762] 10 p1456 N84-19510
Accelerated degradation of silicon metallization systems 12 p1838 N84-21983
An automated airframe production cost model
[AD-P002787] 13 p2056 N84-23334
Shear-lag analysis of notched laminates with interlaminar debonding
[NASA-CR-3798] 14 p2119 N84-23697
Finite element model to compute stresses in composite masonry due to creep, shrinkage and temperature
[PB84-152578] 14 p2159 N84-23933
Unified database development program
[AD-A140309] 16 p2567 N84-26471
Investigation of accelerated stress factors and failure/degradation mechanisms in terrestrial solar cells
[NASA-CR-173757] 18 p2870 N84-28222
Attractive interaction between an atom and a surface
[DE84-003204] 19 p3103 N84-29712
Ballistic transport in submicron silicon mosfets
[AD-A142036] 19 p3111 N84-29766
Multi-variate acceptance plans for flexible airport pavements 21 p3345 N84-31220
Ages of extragalactic intermediate-age star clusters
[NASA-CR-173927] 23 p3840 N84-34360
CLEVELAND STATE UNIV., OHIO.
Consolidation of Si3N4 without additives (by hot isostatic pressing)
[NASA-CR-173279] 08 p1136 N84-17389
Preliminary investigation of an electrical network model for ultrasonic scattering
[NASA-CR-3770] 08 p1168 N84-17606
Optimization methods applied to hybrid vehicle design
[NASA-CR-168292] 09 p1406 N84-19185
Effects of unsteady free stream velocity and free stream turbulence on stagnation point heat transfer
[NASA-CR-3804] 16 p2486 N84-25943
Dynamics of early planetary gear trains
[NASA-CR-3793] 16 p2498 N84-26027
Manual of phosphoric acid fuel cell power plant cost model and computer program
[NASA-CR-174720] 23 p3790 N84-34037
COAST GUARD, WASHINGTON, D.C.
Radar resonance reflection from sets of plane dielectric layers
[AD-A128680] 01 p0062 N84-10406
Report of the International Ice Patrol Service in the North Atlantic Ocean, season of 1981
[AD-A134791] 08 p1195 N84-17793
OMEGA global radionavigation: A guide for users
[PB84-134345] 10 p1427 N84-19331
LORAN-C signal stability study: Northeast and southeast U.S.
[AD-A137628] 11 p1604 N84-20508
Correlation of microwave sensor returns with soil moisture 23 p3770 N84-33897
COAST GUARD RESEARCH AND DEVELOPMENT CENTER, GROTON, CONN.
Analysis of US Coast Guard HU-25A visual and radar detection performance
[AD-A133380] 06 p0784 N84-15138
Movement of satellite-tracked buoys in the Beaufort sea (1979-1981)
[AD-A133159] 07 p1041 N84-16748
Elements of an iceberg deterioration model
[AD-A133223] 07 p1041 N84-16749
Airship proof-of-concept evaluation
[AD-A141759] 19 p2959 N84-28753
Evaluation of U.S. Coast Guard forward-looking airborne radars
[AD-A142417] 20 p3174 N84-30156
COASTAL ENGINEERING RESEARCH CENTER, VICKSBURG, MISS.
Prototype tidal data analysis for Mississippi Sound and adjacent areas
[AD-A134071] 06 p0883 N84-15744
Nearshore current model workshop summary
[AD-A134702] 08 p1195 N84-17791
Interpretative analysis of surficial sediments as an aid in transport studies of dredged materials Cape Canaveral, Florida
[AD-A140759] 17 p2724 N84-27339
COCKERHAM (JOHN M.) AND ASSOCIATES, INC., HOPEWELL, VA.
Cost risk trade-offs in timing the production decision
[AD-P002753] 13 p2050 N84-23300
CODEX CORP., MANSFIELD, MASS.
A comparison of arithmetic units in VLSI signal processing systems 09 p1403 N84-19165
COHEN (NORMAN S.) PROFESSIONAL SERVICES, INC., REDLANDS, CALIF.
Modeling effects of composition on the burn rates of nitrate ester-based energetic binders 13 p1951 N84-22685
COLLABORATIVE PLANNERS, INC., CLEVELAND HEIGHTS, OHIO.
Superconductivity for electromagnetic guns
[AD-A140665] 17 p2764 N84-27556
COLLEGE OF THE HOLY CROSS, WORCESTER, MASS.
A molecular orbital study of atmospherically important species
[AD-A133656] 05 p0649 N84-14257
COLLEGE OF WILLIAM AND MARY, NEWPORT NEWS, VA.
An experimental investigation of electric flashover across solid insulators in vacuum
[NASA-CR-175379] 08 p1149 N84-17478
The effects of blade mounted vortex generators on the noise from a MOD-2 wind turbine generator
[NASA-CR-172292] 08 p1227 N84-18017
A review of some Reynolds number effects related to bodies at high angles of attack
[NASA-CR-3809] 21 p3325 N84-31097
Acoustic tests of the MOD-O/5A wind turbine rotor with two different ailerons
[NASA-CR-172427] 21 p3491 N84-32120
COLLEGE OF WILLIAM AND MARY, WILLIAMSBURG, VA.
Theory of hydromagnetic turbulence 03 p0467 N84-13077
Long-time states of inverse cascades in the presence of a maximum length scale 17 p2666 N84-26999
Applications of spectral methods to turbulent magnetofluids in space and fusion research
[NASA-CR-173665] 17 p2757 N84-27505
COLOGNE UNIV. (WEST GERMANY).
Videopolarimetry of water surfaces
[BMFT-FB-W-83-020] 07 p1075 N84-16990
Satellite measurements of radiation budgets
[BMFT-FB-W-83-025] 10 p1533 N84-20044
Sampling problems of satellite measurements of radiation budget parameters 10 p1534 N84-20045
Angular corrections of satellite derived measurements of radiances 10 p1534 N84-20046
Error analysis of satellite derived radiation flux densities 10 p1534 N84-20047
A conical scan radiometer for an airplane mission 10 p1534 N84-20050
On the use of narrow band infrared channels to determine the outgoing long wave flux 10 p1534 N84-20051
Aerosol detection by polarization measurements 10 p1535 N84-20057
Verification of the radiation budget in numerical models 10 p1535 N84-20059
Radiation and clouds, the International Satellite Cloud Climatology Project (ISCCP) 10 p1535 N84-20060
On the derivation of cloud structure parameters from aircraft measurements 10 p1536 N84-20062
Mapping of global radiation from Meteosat image data 10 p1536 N84-20065
Robust statistical methods 16 p2504 N84-26071
Global radiation from satellite measurements
[MITT-37] 18 p2867 N84-28200
Cloud recognition from bispectral histograms
[MITT-38] 18 p2891 N84-28352

The so-called Wolff's law and the adaptation of bone to microgravity 23 p3608 N84-34145
COLORADO SCHOOL OF MINES, GOLDEN.
Ferrous alloy metallurgy: Liquid-lithium corrosion and welding
[DE84-003011] 07 p0975 N84-16317
Carbide formation and fracture of high carbon steel
[AD-A138519] 12 p1798 N84-21730
Liquid-vapor and solid-liquid-vapor phase equilibria in natural gas systems
[PB84-179191] 16 p2474 N84-25860
Ferrous alloy metallurgy, liquid lithium corrosion and welding
[DE84-014656] 22 p3556 N84-32517
COLORADO STATE UNIV., FORT COLLINS.
Rotating-boom facility for evaluation of wind characteristics approaching a wind-turbine blade
[DE83-013117] 01 p0017 N84-10107
On the physical processes responsible for tropical cyclone motion 02 p0252 N84-11648
Numerical experiments on the formation and maintenance of cirriform clouds 02 p0252 N84-11649
Novel techniques for enhanced reflectivity infrared mirrors
[AD-A131924] 03 p0441 N84-12894
Growth and characterization of InP and InGaAs films using the hydride VPE technique
[AD-A131841] 03 p0452 N84-12973
SISAL: Streams and Iteration in a Single-Assignment Language. Language reference manual, version 1.1
[DE83-016576] 04 p0582 N84-13843
Prediction of high-pressure phase transitions in solid N2 and the pressure dependence of the intramolecular vibrational frequencies
[DE83-015260] 04 p0615 N84-14057
Molecular supersonic jet studies of Aniline solvation by helium and methane
[AD-A132879] 05 p0650 N84-14276
Heat transfer, pressure drop, and fluid flow in interrupted wall passages 05 p0682 N84-14487
The effects of long-range transport of air pollutants on artic cloud-active aerosol 05 p0702 N84-14604
Mesoscale moisture fields retrieved from satellite infrared radiances in nocturnal inversion cases 05 p0705 N84-14629
Genesis and development of deep convective storms
[PB83-252452] 05 p0710 N84-14653
Tropical cyclones in the Australian/southwest Pacific region 05 p0710 N84-14654
FSCAN-83 report and user's manual
[AD-A132740] 05 p0729 N84-14788
Molecular jet study of aniline-helium van der Waals molecules and aniline radiationless relaxation in the 1-B sub 2 excited electronic state
[AD-A132726] 05 p0744 N84-14886
High pressure properties of solid alpha oxygen 05 p0757 N84-14963
Current collection from the space plasma through defects in high voltage solar array insulation 06 p0919 N84-15970
Design and verification of a cloud field optical simulator
[NASA-CR-173274] 07 p1035 N84-16717
Atmospheric planetary-wave response to external forcing
[NASA-CR-175165] 08 p1186 N84-17726
Photon-burst correlation techniques for atmospheric crosswind measurements
[AD-A134617] 08 p1187 N84-17735
A laboratory investigation of the reflective properties of simulated, optically thick clouds
[NASA-CR-175362] 08 p1190 N84-17755
Experimental investigation of a Hall-current thruster
[NASA-CR-168133] 09 p1274 N84-18321
Sputtering phenomena in ion thrusters
[NASA-CR-168172] 09 p1274 N84-18322
Advanced ion thruster research
[NASA-CR-168340] 10 p1450 N84-19467
Ion extraction capabilities of two-grid accelerator systems
[NASA-CR-174621] 10 p1450 N84-19468
Experiments with a spectral tropical cyclone model 10 p1542 N84-20105
Analysis and classification of mesoscale cloud and precipitation systems 10 p1542 N84-20107
Fundamental organometallic reactions: Applications on the CYBER 205 10 p1560 N84-20221
Modeling material failure with a vectorized routine 10 p1561 N84-20226
A laboratory investigation of the reflective properties of simulated, optically thick clouds
[NASA-CR-175158] 10 p1578 N84-20336
Designing and constructing the Cloud Field Optical Simulator (CFOS) 10 p1578 N84-20337
The Cloud Field Simulation Project 10 p1578 N84-20338
Design and verification of a cloud field optical simulator 10 p1578 N84-20339
The effects of substrate surface treatments on the defect incorporation in hydride VPE grown InGaAs films
[AD-A137488] 10 p1588 N84-20408
Reflectance modeling 12 p1830 N84-21931
Heat transfer effects during cold dense gas dispersion
[PB84-162999] 14 p2177 N84-24043
Determination of cloud parameters for NEROS 2 from digital satellite data
[PB84-162601] 14 p2182 N84-24075
Turbulence effect on laminar separation on a circular cylinder 15 p2314 N84-24889
Parameter estimation and infiltration tests at the repeat facility 16 p2514 N84-26136
The dual meaning of the term context: Implications for research, theory and applications
[AD-P003365] 18 p2913 N84-28478
Supersonic molecular jet studies of Toluene-Helium and Tolusne-Methane clusters
[AD-A141379] 19 p2988 N84-28931
Open cycle lithium chloride cooling system
[DE84-005831] 20 p3184 N84-30234
Studies of Chebyshev spectral methods and multigrid methods
[AD-A142014] 20 p3245 N84-30586
Ion beamlet steering for two-grid electrostatic thrusters
[NASA-CR-174671] 21 p3354 N84-31274
The annular flow electrothermal ramjet
[NASA-CR-174704] 21 p3354 N84-31275
Compound strip methods for the analysis of continuous elastic plates 21 p3417 N84-31670
Response of alluvial rivers to active tectonics 21 p3438 N84-31812
Model cloud relationships
[AD-A142690] 21 p3447 N84-31871
Measurement of turbulent wind velocities using a rotating boom apparatus
[DE84-012417] 21 p3448 N84-31875
Doppler-radar observation of the evolution of downdrafts in convective clouds
[NASA-CR-173874] 21 p3450 N84-31896
Geology and origin of the Aquila iron deposit in southwestern Michoacan, Mexico 22 p3613 N84-32890
Investigation of arc cloud lines 24 p3931 N84-34885
COLORADO UNIV., BOULDER.
Direct comparison of intuitive, quasi-rational and analytical cognition
[AD-A130273] 01 p0116 N84-10751
A determination and analysis of polar motion 02 p0247 N84-11615
Climatic reconstructions in the North American arctic during the last 6000 years
[DE83-015836] 02 p0256 N84-11677
Quasi-Newton methods using multiple secant equations
[AD-A131444] 02 p0282 N84-11847
Radio emission from solar and stellar coronae 02 p0308 N84-12023
Low energy nuclear physics and accelerator development
[DE83-013384] 03 p0438 N84-12877
A study of depletion in low-velocity diffuse interstellar gas 03 p0462 N84-13042
Observational evidence for solar wind acceleration at the base of coronal holes 03 p0468 N84-13082
Ultraviolet extinction properties of grains in the interstellar medium 03 p0476 N84-13131
Glaciological data: Permafrost. A bibliography, 1978 - 1982
[PB83-249730] 04 p0565 N84-13724
Buckling flow and transition to turbulence in axisymmetric plumes 05 p0682 N84-14486
Buckling of turbulent jets 05 p0683 N84-14488
TREGRM-83 report and user's manual
[AD-A132874] 05 p0729 N84-14789
A galerkin-finite element technique for small-scale atmospheric flows and transport over general terrain
[AD-A132735] 05 p0736 N84-14832
Carbon monoxide fourth positive ultraviolet airglow emissions on Venus 05 p0764 N84-15015
Alternative experiments using the geophysical fluid flow cell
[NASA-CR-3766] 06 p0877 N84-15706
Line profile variability in winds of OB stars 06 p0936 N84-16085
Promoter modifications of catalytic activity and selectivity
[DE84-003179] 07 p0970 N84-16287
The development and test of multi-anode microchannel array detector systems. 2: Soft X-ray detectors
[NASA-CR-173245] 07 p0996 N84-16457
Task conditions versus stable individual differences as determinants of experts' judgement policies
[AD-A134797] 08 p1203 N84-17841
Stellar Ultraviolet Rocket Research Program
[NASA-CR-175361] 08 p1242 N84-18119
The strength and behavior of steel fiber-reinforced concrete under combined tension-compression loading
[AD-A136124] 09 p1334 N84-18708
Digital signal processing structures for VLSI 09 p1401 N84-19149
Analytical prediction of turbulent heat transfer parameters
[AD-A137515] 10 p1491 N84-19752
Degradation of evaporated aluminum films for solar reflections
[DE84-005341] 10 p1530 N84-20021
Report of Prochloron research 10 p1544 N84-20121
Vertical structure and convective dynamics of the equatorial region on Jupiter 11 p1758 N84-21473
Case study of layer fine structure and turbulence within stable elevated layers
[PB84-158666] 14 p2182 N84-24076
Efficient realizations in hardware implementations for digital signal processing
[AD-A139112] 14 p2202 N84-24218
Grain destruction in interstellar shocks 16 p2569 N84-26487
Meteoroiogical and dynamical requirements for MST radar networks: Waves 17 p2683 N84-27080
Modelling solar spectral irradiance variations at ultraviolet wavelengths 17 p2780 N84-27651
Innovative detection, separation and sampling techniques for trace analysis by gas chromatography
[AD-A140974] 18 p2811 N84-27842
Laser photoelectron spectroscopy of ions
[DE84-008932] 18 p2812 N84-27852
Three wavelength optical alignment of the Nova laser
[DE84-009702] 18 p2847 N84-28079
Identification of strain-softening properties and computational predictions of localized fracture
[AD-A141866] 19 p3036 N84-29258
Modification of current feedback strategies: A text synthesis approach
[AD-A142187] 19 p3068 N84-29463
Organophosphate toxicity: Genetics, receptors, and antidotes
[AD-A141059] 20 p3259 N84-30685
Strength and stiffness of AISC type 2 steel frames 21 p3416 N84-31666
The post-buckling equilibrium and the dynamic collapse of complex hyperstatic pin-jointed lattices and reticulated shells 21 p3417 N84-31667
Geochemistry of oil shale leachates and interaction with geologic substrates, Piceance Creek Basin, Colorado 21 p3440 N84-31825
Geochronology, paleomagnetism and petrology of the Upper Cenozoic Bruneau Formation in the Western Snake River Plain, Idaho 21 p3440 N84-31826
Resolution and quantitative accuracy improvements in ultrasound transmission imaging 21 p3490 N84-32113
Line studies of Wolf-Rayet stars: The WN subclass 21 p3522 N84-32311
Atomic carbon in the Venus thermosphere: Observations and theory 21 p3525 N84-32332
Pilot study and evaluation of a SMMR-derived sea ice data base
[NASA-CR-175255] 22 p3614 N84-32896
Theoretical and experimental studies in support of the geophysical fluid flow experiment 24 p3923 N84-34832
COLORADO UNIV., COLORADO SPRINGS.
Moving finite elements in 1-D: A review of the method and the coding experience
[DE84-004821] 11 p1716 N84-21192
Situational interaction: A peer counseling approach to AWOL (unauthorized absences from duty) reduction
[AD-P003243] 18 p2903 N84-28410
COLORADO UNIV., DENVER.
Increased metabolism and dead space as components of ventilation at high altitude
[AD-A130827] 06 p0887 N84-15766
Variable inhibition by falling CO2 of hypoxic ventilatory response in man
[AD-A130658] 06 p0887 N84-15768
Ventilation and ventilatory control in high altitude pulmonary edema and acute mountain sickness
[AD-A135941] 10 p1548 N84-20145
Affective determinants of job perceptions
[AD-P003258] 18 p2905 N84-28425

COLUMBIA UNIV., NEW YORK.
Actuator placement considerations for the control of large space structures 02 p0185 N84-11199
Nonlinear response and noise transmission of double wall sandwich panels 02 p0187 N84-11215
Hadron-hadron collider group
[DE83-010704] 03 p0437 N84-12865
Defect interactions at high concentrations in solid oxide electrolytes
[DE83-016849] 03 p0455 N84-12992
The development of an imaging gas scintillation proportional counter for use in X-ray astronomy 04 p0618 N84-14079
Effects of cobalt in nickel-base superalloys
[NASA-CR-168308] 05 p0652 N84-14287
Spatial localization in strabismic observers
[AD-A132748] 06 p0890 N84-15784
Intrinsic adaptive mesh techniques
[NASA-CR-175375] 08 p1217 N84-17941
Nonlinear partial differential equations and related problems of pade approximations
[AD-A135110] 08 p1218 N84-17948
Structural and dynamic studies of materials possessing high energy content
[AD-A136250] 09 p1278 N84-18343
Picosecond laser studies of excited state processes
[AD-A136137] 09 p1323 N84-18646
Morphological and histochemical studies of bone and cartilage during periods of stimulated weightlessness 09 p1354 N84-18847
Effects of simulated weightlessness on mammalian development. Part 1: Development of clinostat for mammalian tissue culture and use in studies on meiotic maturation of mouse oocytes 09 p1357 N84-18868
The role of cobalt on the creep of Waspaloy
[NASA-CR-174628] 10 p1458 N84-19523
Polymerization of functionalized acetylenes
[AD-A137120] 10 p1465 N84-19570
The mechanism of Ziegler-Natta polymerization of acetylene: A nutation NMR study
[AD-A137089] 10 p1468 N84-19588
Polymerizations of acetylenes and cyclic olefins induced by metal-carbynes
[AD-A137090] 10 p1468 N84-19589
An X-ray survey of clusters of galaxies with the Einstein Observatory and a study of iron sedimentation in the intracluster gas 10 p1595 N84-20454
Molecular clouds and galactic spiral structure 10 p1596 N84-20459
Microstructure and microanalysis in relation to the grain boundary conductivity effect in doped ceria 11 p1741 N84-21358
Word frequency and automatic indexing 11 p1747 N84-21401
Detection of hidden mineral deposits by airborne spectral analysis of forest canopies
[E84-10110] 12 p1830 N84-21928
The conceptual design of mechanisms and mechanical systems 15 p2311 N84-24869
Contributions to dynamics study of air-lubricated gas bearings at high compressibility numbers 17 p2674 N84-27039
The role of anelastic strain in the cyclic creep behavior of a particle strengthened alloy 17 p2677 N84-27053
A search for X-ray polarization in cosmic X-ray sources
[NASA-CR-173635] 17 p2781 N84-27657
Corrected diffusion approximations to first passage times
[AD-A140940] 18 p2925 N84-28548
Research investigation directed toward extending the useful range of the electromagnetic spectrum
[AD-A142209] 19 p3007 N84-29064
Nonlinear partial differential equations and related problems of Pade approximations
[AD-A141519] 19 p3085 N84-29578
Investigation of three dimensional mesh generation with precise controls
[AD-A142246] 19 p3089 N84-29614
Experimental study of noise transmission into a general aviation aircraft
[NASA-CR-172357] 20 p3290 N84-30888
Thomson backscattering from an intense relativistic electron beam as a diagnostic for a free electron laser
[AD-A143027] 21 p3409 N84-31623
Volcanism, plutonism, and sedimentation in a late Devonian Submarine Island-arc setting, Northern Sierra Nevada, California 21 p3441 N84-31831
Theoretical high energy physics
[DE84-011854] 21 p3495 N84-32153
Safety and deterministic failure analyses in high-beta D-D Tokamak reactors
[DE84-012693] 21 p3500 N84-32185
Long-term creep of copper at cryogenic temperatures 23 p3716 N84-33559
Direct writing of microstructures for microelectronics
[AD-A144528] 24 p3898 N84-34687
Some boundary integral equation methods and their application to seismic exploration 24 p3918 N84-34803

COMBUSTION ENGINEERING, INC., WINDSOR, CONN.
Design and construction of deep tubesheet crevice devices for producing intergranular attack of heat transfer tubing
[DE83-902228] 01 p0045 N84-10287

COMISION NACIONAL DE INVESTIGACIONES ESPACIALES, SAN MIGUEL (ARGENTINA).
A method for the estimation of small perturbations 19 p3118 N84-29817

COMMAND AND CONTROL TECHNICAL CENTER, WASHINGTON, D. C.
Generalized monitoring facility. Users manual. Change 7
[AD-A138533] 13 p2028 N84-23151

COMMAND CONTROL COMMUNICATIONS COUNTERMEASURES JOINT TEST FORCE, KIRTLAND AFB, N. MEX.
Program approach document
[AD-A135886] 09 p1300 N84-18501

COMMERCE DEPT., WASHINGTON, D.C.
Flexure hinge
[PB84-178557] 20 p3199 N84-30319

COMMISSARIAT A L'ENERGIE ATOMIQUE, GIF-SUR-YVETTE (FRANCE).
The performance of 16000 wire mini-drift MWPC system 06 p0912 N84-15922
The ISPM cosmic-ray and solar-particle investigation 09 p1262 N84-18236
Irradiation creep of solution annealed and coldworked 316 stainless steel
[DE84-780404] 24 p3885 N84-34613
Effect of dose rate on the microstructure of CW 316 SS
[DE84-780403] 24 p3885 N84-34614

COMMISSARIAT A L'ENERGIE ATOMIQUE, GRENOBLE (FRANCE).
Filtration theory approach to immiscible alloys solidification 17 p2613 N84-26729

COMMISSARIAT A L'ENERGIE ATOMIQUE, SACLAY (FRANCE).
Recent results in the study of heavy-ion elastic scattering at large angles
[DE83-012214] 01 p0142 N84-10935
Measurements in the presence of nonwhite noise 09 p1411 N84-19224

COMMISSARIAT A L'ENERGIE ATOMIQUE, VILLENEUVE-SAINT-GEORGES (FRANCE).
Analysis of experiments on X-ray emission from laser-irradiated targets
[DE84-751157] 24 p3909 N84-34761

COMMISSION OF THE EUROPEAN COMMUNITIES, BRUSSELS (BELGIUM).
European community support to software engineering development through Ada activities and ESPRIT 05 p0724 N84-14747

COMMITTEE OF CONFERENCE (U. S. CONGRESS).
Making appropriations for the Department of Housing and Urban Development, and for sundry independent agencies, boards, commissions, corporations, and offices for the fiscal year ending September 30, 1985, and for other purposes
[H-REPT-98-867] 17 p2772 N84-27603
National Aeronautics and Space Administration 17 p2772 N84-27604
Authorizing appropriations from the National Aeronautics and Space Administration
[H-REPT-98-873] 17 p2772 N84-27605

COMMITTEE ON APPROPRIATIONS (U. S. HOUSE).
Department of Housing and Urban Development Appropriations Bill, 1984
[H-REPT-98-803] 14 p2249 N84-24508
Department of Housing and Urban Development-Independent Agencies Appropriation Bill, 1985 15 p2420 N84-25530
National Aeronautics and Space Administration 15 p2420 N84-25531

COMMITTEE ON APPROPRIATIONS (U. S. SENATE).
Department of Housing and Urban Development, and certain independent agencies appropriations, 1984, part 2
[S-REPT-98-221-PT-2] 11 p1752 N84-21439
Department of Housing and Urban Development-independent agencies appropriations for 1984: National Aeronautics and Space Administration 11 p1753 N84-21440
Department of Housing and Urban Development-Independent Agencies Appropriations Act, 1985 15 p2420 N84-25532
National Aeronautics and Space Administration research and development 15 p2420 N84-25533
Department of Housing and Urban Development-Independent Agencies Appropriations Bill, 1985
[S-REPT-98-506] 16 p2568 N84-26476
National Aeronautics and Space Administration 16 p2568 N84-26477
Department of Housing and Urban Development-Independent Agencies Appropriation Act, 1985
[S-REPT-98-506] 16 p2568 N84-26478
National Aeronautics and Space Administration: Research and development foi HC 16 p2568 N84-26479
Department of Housing and Urban Development-Independent Agencies Appropriation Act, 1985 16 p2568 N84-26480
National Aeronautics and Space Administration 16 p2568 N84-26481

COMMITTEE ON ARMED SERVICES (U. S. HOUSE).
Technology transfer
[H-REPT-98-15] 15 p2419 N84-25528

COMMITTEE ON COMMERCE, SCIENCE, AND TRANSPORTATION (U. S. SENATE).
Policy and legal issues involved in the commercialization of space
[GPO-21-495] 01 p0163 N84-11069
US weather satellites and services
[GPO-25-753] 03 p0340 N84-12208
Role of technology in promoting industrial competitiveness
[S-REPT-98-565] 10 p1471 N84-19605
Civil space station
[S-REPT-98-523] 11 p1621 N84-20613
National Aeronautics and Space Administration Authorization Act, 1985 11 p1753 N84-21443
Transfer of civil meteorological satellites
[S-REPT-98-260] 14 p2248 N84-24503
National Aeronautics and Space Administration Authorization Bill, 1984
[S-REPT-98-455] 14 p2249 N84-24506
National Aeronautics and Space Administration Authorization Act
[S-REPT-98-455] 14 p2249 N84-24507
Cabin air quality
[GPO-29-522] 20 p3263 N84-30702
NASA authorization for fiscal year 1985
[GPO-32-363] 24 p3969 N84-35133

COMMITTEE ON ENERGY AND COMMERCE (U. S. HOUSE).
US technology transfer to China
[GPO-29-567] 20 p3318 N84-31064

COMMITTEE ON FOREIGN AFFAIRS (U. S. HOUSE).
Oversight of the Unispace and International Telecommunications Union conference
[GPO-28-104] 18 p2826 N84-27953

COMMITTEE ON GOVERNMENT OPERATIONS (U. S. HOUSE).
Paperwork Reduction Act amendments of 1983
[H-REPT-98-147] 02 p0303 N84-11989
International implications of proposed sale of LANDSAT satellite
[GPO-31-310] 23 p3763 N84-33849
Sale of LANDSAT could adversely affect international relations
[H-REPT-98-1108] 23 p3763 N84-33850

COMMITTEE ON PUBLIC WORKS AND TRANSPORTATION (U. S. HOUSE).
A review of US international aviation policy
[GPO-18-813] 07 p1087 N84-17070
Improvement needed in the implementation of the United States International Aviation Policy
[GPO-23-934] 07 p1087 N84-17072
Compilation of selected aviation laws
[GPO-99-811] 11 p1752 N84-21438

COMMITTEE ON SCIENCE AND TECHNOLOGY (U. S. HOUSE).
Space commercialization
[GPO-22-870] 01 p0017 N84-10108
Aircraft maintenance and fire
[GPO-24-247] 02 p0169 N84-11112
Joint services advanced vertical wing (JVX) program
[GPO-22-771] 02 p0177 N84-11160
Technology of airport safety
[GPO-24-762] 02 p0182 N84-11183
Flight of STS-7 with astronauts Captain Robert L. Crippen, Captain Frederick H. Hauck, Colonel John M. Fabian, Doctor Sally K. Ride and Doctor Norman E. Thagard
[GPO-23-872] 02 p0184 N84-11196
The space nuclear reactor program
[GPO-22-828] 02 p0185 N84-11204
National Aeronautics and Space Administration authorization, 1984, volume 2
[GPO-19-605] 02 p0303 N84-11988

National Science Foundation authorization, 1984 authorization
[GPO-21-260] 02 p0303 N84-11990
Space telescope cost, schedule and performance
[GPO-24-522] 02 p0305 N84-12001
Biological clocks and shift work scheduling
[GPO-21-747] 03 p0415 N84-12713
National Aeronautics and Space Act of 1958, as amended and related legislation
[GPO-24-491] 03 p0460 N84-13032
Aircraft navigation technology and errors
[GPO-26-859] 04 p0482 N84-13170
Flight of STS-8 with astronauts Captain Richard H. Truly, Commander Daniel C. Brandenstein, Lieutenant Commander Dale A. Gardner, Lieutenant Colonel Guion S. Bluford, Jr. and William Edgar Thornton, M.D.
[GPO-27-043] 05 p0643 N84-14230
NASA's space station activities
[GPO-27-393] 05 p0644 N84-14234
NASA's five-year plan
[GPO-27-459] 05 p0757 N84-14964
Airport and aircraft safety research and technology
[GPO-26-497] 08 p1100 N84-17152
Satellite-directed navigational guidance for aircraft
[H-REPT-98-510] 08 p1102 N84-17164
Review of materials processing in space, 1983
[GPO-27-914] 08 p1107 N84-17193
Space commercialization
[GPO-26-498] 08 p1107 N84-17194
Transfer of civil meteorological satellites
[H-REPT-98-509] 08 p1113 N84-17238
Alternative fuels for general aviation
[GPO-27-618] 08 p1139 N84-17409
Providing comprehensive national policy dealing with national needs and objectives in the Arctic and national materials policy
[H-REPT-98-593] 08 p1173 N84-17640
A 1983 science and technology posture hearing with Director, Office of Science and Technology Policy
[GPO-21-095] 08 p1237 N84-18085
Research and development joint ventures
[GPO-26-312] 08 p1241 N84-18114
Joint industry/university cooperation with federally supported research facilities
[GPO-24-902] 08 p1241 N84-18115
National Aeronautics and Space Administration Act, 1985 08 p1241 N84-18116
The commercialization of meteorological and land remote-sensing satellites
[GPO-20-901] 11 p1622 N84-20614
Authorizing appropriations to the National Aeronautics and Space Administration for fiscal year 1985
[H-REPT-98-629] 11 p1753 N84-21441
Review of the National Aeronautics and Space Act of 1958
[GPO-28-915] 11 p1753 N84-21442
National Aeronautics and Space Administration Authorization Act, 1985
[H-REPT-98-629] 11 p1753 N84-21444
Man and the biosphere program
[GPO-28-292] 15 p2366 N84-25193
Biological clocks and shift work scheduling
[GPO-29-312] 15 p2379 N84-25277
High energy physics facilities
[GPO-30-261] 15 p2406 N84-25444
The 1985 NASA authorization
[GPO-31-453] 15 p2419 N84-25526
Arctic Research and Policy Act of 1983
[GPO-171] 15 p2419 N84-25527
Future of aeronautics
[GPO-29-744] 15 p2419 N84-25529
Land Remote-Sensing Commercialization Act of 1984
[H-REPT-98-647] 20 p3318 N84-31063
Agriculture and water use: Present and future issues
[GPO-30-599] 22 p3614 N84-32897
National environmental monitoring
[GPO-26-186] 22 p3619 N84-32933
Agriculture weather services
[GPO-27-913] 22 p3624 N84-32966
Hurricane Alicia: Prediction, damage and recovery efforts
[GPO-33-446] 22 p3625 N84-32968
The 1985 NASA authorization, volume 2
[GPO-34-202] 22 p3676 N84-33301
Oversight on the Federal Aviation Administration fiscal year 1985 research, engineering and development budget request
[GPO-34-924] 22 p3676 N84-33302
National Aeronautics and Space Administration Authorization Act, 1985
[PUB-LAW-98-361] 22 p3676 N84-33303
Airport safety technology: Washington National Airport
[GPO-34-406] 23 p3696 N84-33423
Space activities of the United States, Soviet Union, and other launching countries/organizations, 1957-1983
[GPO-33-265] 23 p3696 N84-33425
The Land Remote-Sensing Commercialization Act of 1984
[GPO-33-947] 23 p3762 N84-33848
The role of information technology in emergency management
[GPO-29-457] 23 p3834 N84-34319
Commercial Space Launch Act
[H-REPT-98-816] 23 p3835 N84-34329
Space telescope, 1984
[GPO-37-290] 23 p3838 N84-34350
Review of the National Aeronautics and Space Act of 1958, as amended
[GPO-38-705] 24 p3970 N84-35134

COMMITTEE ON SMALL BUSINESS (U. S. HOUSE).
Paperwork Reduction Act of 1980
[S-REPT-98-479] 14 p2248 N84-24504
Impact of robots and computers on the work force of the 1980's
[GPO-31-912] 22 p3603 N84-32826

COMMITTEE ON SPACE RESEARCH, BERNE (SWITZERLAND).
Space research in Switzerland 08 p1107 N84-17200

COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANIZATION, ASPENDALE (AUSTRALIA).
Note on the interaction of the cloud layer and ABL, appendix H 18 p2884 N84-28303

COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANIZATION, MELBOURNE (AUSTRALIA).
Refinements to a one-dimensional carbon cycle model
[ISBN-0-643-03582-6] 10 p1533 N84-20040

COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANIZATION, SYDNEY (AUSTRALIA).
A comparative study of the fatty acid composition of prochloron lipids 10 p1544 N84-20115

COMMUNICATIONS RESEARCH CENTRE, OTTAWA (ONTARIO).
Scale modelling and full scale measurement techniques with particular reference to antennas in their operational environments 03 p0364 N84-12368
The Canadian programme of experimental measurement of sea-state characteristics by sky-wave radar 06 p0869 N84-15657
VHF and UHF propagation in the Canadian high Arctic 15 p2326 N84-24969
Experimental evaluation of a high frequency radio data terminal in the ship-shore mode
[CRC-1375] 21 p3382 N84-31458

COMMUNICATIONS SATELLITE CORP., CLARKSBURG, MD.
Calculation of ground wave attenuation over irregular, inhomogeneous, layered media using PROGRAM WAGNER 03 p0364 N84-12369
Thin N-I-P radiation resistant solar cells
[NASA-CR-168284] 06 p0873 N84-15682
Phased-array-fed antenna configuration study. Volume 1: Technology assessment
[NASA-CR-168231] 07 p0991 N84-16423
Phased-array-fed antenna configuration study, volume 2
[NASA-CR-168232] 07 p0991 N84-16424
Space station needs, attributes, and architectural options. Volume 1. Executive summary
[NASA-CR-173710] 18 p2806 N84-27816
Structurally stable, thin silicon solar cells 19 p3044 N84-29309
Technologies for intersatellite optical communications 24 p3904 N84-34727

COMMUNICATIONS SATELLITE CORP., EL SEGUNDO, CALIF.
Factors affecting nickel-oxide electrode capacity in nickel-hydrogen cells 23 p3739 N84-33699

COMMUNICATIONS SATELLITE CORP., WASHINGTON, D.C.
Space station needs, attributes and architectural options. Part 1: Summary
[NASA-CR-175382] 09 p1267 N84-18270
Colocation stationkeeping of geostationary satellites 19 p3121 N84-29838

COMMUNIMETRICS, INC., SAN JOSE, CALIF.
Study to forecast and determine characteristics of world satellite communications market
[NASA-CR-168270] 07 p0991 N84-16426

COMPASS SYSTEMS, INC., SAN DIEGO, CALIF.
Wake profile measurements of fixed and oscillating flaps
[NASA-CR-166602] 24 p3852 N84-34428
Laser velocimeter measurements of dynamic stall
[NASA-CR-166603] 24 p3852 N84-34429

COMPLERE, INC., PALO ALTO, CALIF.
Application of laser velocimetry to unsteady flows in large scale high speed tunnels
[NASA-CR-166575] 12 p1765 N84-21511

COMPTROLLER GENERAL OF THE UNITED STATES, WASHINGTON, D.C.
Stronger direction needed for the National Earthquake Program
[GAO/RCED-83-103] 20 p3240 N84-30570

COMPUTATIONAL MECHANICS CONSULTANTS, KNOXVILLE, TENN.
Progress on a generalized coordinates tensor product finite element 3DPNS algorithm for subsonic
[NASA-CR-172256] 07 p1002 N84-16495
The CMC/3DPNS computer program for prediction of three-dimension, subsonic, turbulent aerodynamic juncture region flow. Volume 2: Users' manual
[NASA-CR-165997] 23 p3746 N84-33749

COMPUTER APPLICATIONS BUREAU (PTY) LTD. (SOUTH AFRICA).
Computerised plant control system 05 p0717 N84-14698

COMPUTER CORP. OF AMERICA, CAMBRIDGE, MASS.
Distributed database control and allocation. Volume 1: Frameworks for understanding concurrency control and recovery algorithms
[AD-A138891] 14 p2203 N84-24223
Distributed database control and allocation. Volume 2: Performance analysis of concurrency control algorithms
[AD-A138892] 14 p2203 N84-24224
Distributed database control and allocation. Volume 3: Distributed database system designer's handbook
[AD-A138893] 14 p2203 N84-24225

COMPUTER HORIZONS, INC., CHERRY HILL, N. J.
Further delineation of the utilization of scientific literature by U.S. patents
[PB84-100734] 08 p1238 N84-18095
Further delineation of the utilization of scientific literature by U.S. patents. Appendices A: Distribution of references contained in patents to various sources
[PB84-100742] 08 p1239 N84-18096
Ten year trends in US technological dependence on foreign technology as indicated by referencing from US patents. Appendix
[PB84-196997] 22 p3669 N84-33255
Ten year trends in US technological dependence on foreign technology as indicated by referencing from US patents
[PB84-197003] 22 p3669 N84-33256

COMPUTER SCIENCES CORP., FALLS CHURCH, VA.
Defense Data Network System Test Facility (STF) recommendations
[AD-A134166] 07 p1084 N84-17048
Recommended test and evaluation and independent verification and validation actions for the Defense Data Network
[AD-A134167] 07 p1084 N84-17049

COMPUTER SCIENCES CORP., HAMPTON, VA.
Application and enhancements of MOVIE.BYU 12 p1871 N84-22195
The Solid Model Geometry Generator (SMGG) 12 p1872 N84-22199

COMPUTER SCIENCES CORP., HOUSTON, TEX.
Efficient algorithms for calculating shock spectra on general purpose computers 10 p1509 N84-19878

COMPUTER SCIENCES CORP., HUNTSVILLE, ALA.
Support for the Naval Research Laboratory Environmental Passive Microwave Remote Sensing Program
[AD-A133330] 06 p0847 N84-15526
Vector wind gust model
[NASA-CR-171029] 15 p2371 N84-25222

COMPUTER SCIENCES CORP., ORLANDO, FLA.
Intercenter Problem Reporting and Corrective Action System (PRACAS) 11 p1748 N84-21408

COMPUTER SCIENCES CORP., SAN DIEGO, CALIF.
Nonlinear regression analysis methodology for the estimation of detection probabilities from empirical data
[AD-A134078] 05 p0727 N84-14770

COMPUTER SCIENCES CORP., SILVER SPRING, MD.
LANDSAT-5 orbit adjust maneuver report
[E84-10155] 19 p3039 N84-29276
Radiometric calibration and processing procedure for reflective bands on LANDSAT-4 protoflight Thematic Mapper
[E84-10056] 21 p3426 N84-31731
TM digital image products for applications
[E84-10178] 21 p3428 N84-31749
Characterization of radiometric calibration of LANDSAT-4 TM reflective bands
[E84-10182] 21 p3429 N84-31753
TM digital image products for applications
[E84-10183] 21 p3429 N84-31754
Software conversion history of the Flight Dynamics System (FDS)
[NASA-CR-175257] 22 p3539 N84-32404

Flight Experiment Demonstration System (FEDS): Mathematical specification
[NASA-CR-175252] 22 p3539 N84-32405
The NASA IUE data analysis facilities
24 p3982 N84-35227

COMPUTER SOFTWARE MANAGEMENT AND INFORMATION CENTER, ATHENS, GA.
Eleventh NASTRAN User's Colloquium
[NASA-CP-2284] 06 p0858 N84-15590
Bolt in bore boundaries 06 p0861 N84-15608
COSMIC software catalog, 1984 edition
[NASA-CR-174576] 12 p1878 N84-22242
Twelfth NASTRAN Users' Colloquium
[NASA-CP-2328] 22 p3609 N84-32864

COMPUTER SYSTEM ASSOCIATES, SAN DIEGO, CALIF.
Investigation of intrinsically error-free programs
[AD-A132934] 05 p0730 N84-14791

COMPUTER SYSTEMS MANAGEMENT, INC., ARLINGTON, VA.
The development and application of an advanced computer-based shared-graphic workstation for video teleconferencing
[AD-A132583] 04 p0579 N84-13817

COMPUTER TECHNOLOGY ASSOCIATES, INC., ENGLEWOOD, COLO.
Integrated command, control, communication and computation system design study. Summary of tasks performed
[NASA-CR-170611] 02 p0209 N84-11361
The nest generation in satellite flight control systems
19 p3119 N84-29822

COMTEK, GRAFTON, VA.
A preliminary design study on an acoustic muffler for the laminar flow transition research apparatus
[NASA-CR-172374] 19 p2958 N84-28748

CONCORDIA UNIV., MONTREAL (QUEBEC).
Cervical spline analysis for ejection injury prediction
[AD-A131081] 01 p0114 N84-10739
Computer graphics techniques for aircraft EMC analysis and design 06 p0771 N84-15055
An optimum seat-suspension for off-road vehicles
10 p1512 N84-19896
Computer aided synthesis of a satellite antenna structure with probabilistic constraints 10 p1512 N84-19899
Dynamic behaviour of a satellite antenna structure in random vibration environment 10 p1512 N84-19900
Experimental investigation of controlling vibrations using multi-unit impact dampers 10 p1514 N84-19909
Unbalance response of a single mass rotor mounted on dissimilar hydrodynamic bearings
10 p1515 N84-19919

CONCORDIA UNIV., LOYOLA CAMPUS, MONTREAL (QUEBEC).
Numerical modelling methods for predicting antenna performance on aircraft 03 p0365 N84-12375

CONFERENCE OF RADIATION CONTROL PROGRAM DIRECTORS, INC., ROCKVILLE, MD.
Suggested state regulations for control fo radiation. Volume 2: Nonionizing radiation, lasers
[PB84-109669] 08 p1165 N84-17587
Instrumentation for nonionizing radiation measurement
[PB84-180603] 20 p3191 N84-30271

CONGRESSIONAL BUDGET OFFICE, WASHINGTON, D. C.
Improving the air traffic control system: An assessment of the National Airspace System Plan
07 p0950 N84-16160

CONNECTICUT UNIV., FARMINGTON.
Local calcium entry and the guidance of growth
02 p0263 N84-11726

CONNECTICUT UNIV., STORRS.
Robust linear filtering for multivariable stationary time series
[AD-A131209] 02 p0281 N84-11844
Robust prediction and interpolation for Vector stationary processes
[AD-A130973] 02 p0284 N84-11859
Density of occupied d states in transition metal-metalloid metallic glasses
[DE84-001206] 04 p0503 N84-13298
EXAFS study of Metglas 2605 CO
[DE84-001203] 04 p0503 N84-13299
An algorithm for detecting a change in stochastic process
[AD-A134104] 06 p0900 N84-15842
Robust procedures for communication data
[AD-A136540] 09 p1299 N84-18493
New method of analyzing vibration of cracked cylindrical shells
[AD-A136637] 09 p1331 N84-18693
The influence of large-scale motion on turbulent transport for confined coaxial jets
11 p1610 N84-20542
Electrode polarization studies in hot corrosion systems
[DE84-005485] 11 p1634 N84-20686
Elevated temperature biaxial fatigue
[NASA-CR-173473] 12 p1826 N84-21905
The fatigue of powder metallurgy alloys
[AD-A138714] 13 p1960 N84-22738
Human decisionmaking in dynamic environments with increasing information processing demands
[AD-P002684] 13 p1979 N84-22845
Dynamic, hierarchical decision problems
[AD-P002912] 13 p1981 N84-22863
Salinity and temperature effects on photosynthesis and organic carbon release rates by selected benthic macroalgae
[PB84-163146] 20 p3257 N84-30674
Investigation of role of subsurface zones in wear of materials
[DE84-012752] 21 p3368 N84-31365
Thermodynamic field theory of the dynamic behavior of bipolar junction transistors 21 p3390 N84-31510
Nonlinear inverse methods applied to interpreting gravity anomalies produced by multi-interfaced geologic bodies
21 p3440 N84-31822
A study of the extent of automation in small college libraries and relationships of attitudes of library directors toward it 22 p3670 N84-33260
Bulk undercooling 24 p3881 N84-34591

CONOCO, INC., PONCA CITY, OKLA.
An active remote sensing system to map location of underwater oil seeps 23 p3781 N84-33974

CONRADTY (C.) G.M.B.H. UND CO. K.G., NUERNBERG (WEST GERMANY).
Recycling of noble metals in connection with electrochemical processes
[BMFT-FB-T-83-140] 02 p0192 N84-11245
Method for the production of electrographite involving about 50% reduction of electrical energy
[BMFT-FB-T-83-162] 07 p0968 N84-16275
Dimensionally stable electrode for fused salt electrolysis (replacement of petrol coke)
[BMFT-FB-T-83-224] 10 p1457 N84-19520

CONSIGLIO NAZIONALE DELLE RICERCHE, BOLOGNA (ITALY).
Transhorizon microwave propagation measurements related to surface meteorological parameters
15 p2325 N84-24964
Topics in cloud physics relevant to radar meteorology
18 p2887 N84-28326
Alpine cyclogenesis as a complex problem
18 p2889 N84-28335
Supernovae 24 p3970 N84-35138
Multifrequency observations of three active galaxies
24 p3972 N84-35151

CONSIGLIO NAZIONALE DELLE RICERCHE, FLORENCE (ITALY).
The Istituto di Ricerca sulle Onde Elettromagnetiche (IROE)-lidar remote sensing of the environment
03 p0396 N84-12590
Laser remote sensing at IROE
24 p3907 N84-34747

CONSIGLIO NAZIONALE DELLE RICERCHE, FRASCATI (ITALY).
Interplanetary Alfvenic fluctuations: A statistical study of the directional variations of the magnetic field
03 p0467 N84-13076
The DC electric field in space: Direct measurements and inferences from cold plasma drifts
08 p1117 N84-17264
Electrodynamic interactions between a tethered satellite system and the ionosphere 08 p1119 N84-17279
An oscillating capacity electrometer for space applications
[IFSI-84-6] 18 p2807 N84-27823
Gravitational antenna with non tuned resonant transducer
[IFSI-84-1] 18 p2831 N84-27972
Electromagnetic radiation from a moving conducting tether
[IFSI-84-2] 18 p2831 N84-27973
Resonant parametric transducer
[IFSI-83-10] 18 p2835 N84-27995
Description of the Gornergrat telescope control system
[IFSI-84-3] 18 p2850 N84-28096
Low energy (130 eV) oxygen ions at the geosynchronous orbit during the CDAW-6 event of March 22, 1979
[IFSI-83-17] 18 p2881 N84-28291
Description of the general utility graphic routines of the HP 1000 F IFSI
[IFSI-83-15] 18 p2922 N84-28534
Space charge around conductors at high potential magnetoplasma
[IFSI-84-4] 18 p2934 N84-28608
Beam plasma discharge in space and laboratory
[IFSI-84-5] 18 p2934 N84-28609
Report in interplanetary space physics
[ISFI-84-8] 18 p2950 N84-28708

CONSULENZE GENERALI ROMA (ITALY).
Simultaneous observations of PC3 pulsations in the magnetosphere and on the ground: Control by the solar wind
[IFSI-83-14] 18 p2953 N84-28717
Alfven wave dissipation in the solar wind
[IFSI-84-7] 18 p2953 N84-28718
Evidence for long period Alfven waves in the inner solar system
[IFSI-84-9] 18 p2953 N84-28719
Cosmic ray NM-64 neutron monitor data-9, January-December 1980, Rome, Italy
[IFSI-83-11] 18 p2954 N84-28722
Cosmic ray NM-64 neutron monitor data-10, January-December 1981, Rome, Italy
[IFSI-83-12] 18 p2954 N84-28723
Cosmic ray NM-64 neutron monitor data-9, January-December 1982, Rome, Italy
[IFSI-83-13] 18 p2954 N84-28724
An interactive procedure for the analysis of linear elements detected in LANDSAT pictures: An application to northern Mozambique 23 p3770 N84-33900
Ultraviolet and optical observations of the Cygnus OB2 association: The star 8A 24 p3977 N84-35191
SS Cygni: Accretion disk morphology
24 p3979 N84-35206
A new outburst of Z Andromedae
24 p3979 N84-35209
Coordinated X-ray, ultraviolet, optical, and infrared observations of the transient source A0535+26
24 p3981 N84-35219
IUE integrated spectra of galactic globular clusters
24 p3982 N84-35230

CONSIGLIO NAZIONALE DELLE RICERCHE, MILAN (ITALY).
Fast automatic reconnaissance in land observations images by means of analog and/or digital images
23 p3768 N84-33885
Multifrequency observations of active galactic nuclei
24 p3972 N84-35152

CONSIGLIO NAZIONALE DELLE RICERCHE, PISA (ITALY).
Proceedings of the 6th European Conference on Visual Perception
[AD-A139927] 15 p2379 N84-25279

CONSIGLIO NAZIONALE DELLE RICERCHE, ROME (ITALY).
Critical slowing-down in microwave absorptive bistability 14 p2237 N84-24429
Information from bias measurement
18 p2888 N84-28327

CONSIGLIO NAZIONALE DELLE RICERCHE, TURIN (ITALY).
A study of the wake-like distortions in the light curves of RS CVN stars by means of time analysis
09 p1409 N84-19213
The influence of solar activity on Earth's rotation: Problems of a bivariate analysis
09 p1410 N84-19218

CONSULENZE GENERALI ROMA (ITALY).
Study on synthesis and characterization of large space systems, phase 2. Part 2: Proposals for additions, modifications and new analytical methods, volume 1
[ESA-CR(P)-1779-VOL-3] 12 p1780 N84-21611
The solution of the dynamic problem of the periodic structures by cyclosymmetric technique
12 p1780 N84-21612
Computing the radiation pressure forces by adapting thermal design verification softwares
12 p1780 N84-21613
Simplified models and computational schemes of the aerodynamic load 12 p1780 N84-21614
Finite element formulations for tensioned members
12 p1780 N84-21615
Study on synthesis and characterization of large space systems, phase 2. Part 2: Proposals for additions, modifications and new analytical methods, volume 2
[ESA-CR(P)-1779-VOL-4] 12 p1780 N84-21616
Thermal design verification of the large open truss structures. The local approach and the shadow problem
12 p1780 N84-21617
Computational savings in view factor evaluation on mode prescreening 12 p1781 N84-21618
Interactive structural-thermal-control analytical formulations 12 p1781 N84-21619
Study on synthesis and characterization of large space systems, phase 2. Part 3: Experimental design verification techniques
[ESA-CR(P)-1779-VOL-5] 12 p1781 N84-21620
Assessment of the existing ground test technology and confronting with the Large Space Structures (LSS) requirements. Experimental techniques in structural analysis 12 p1781 N84-21621
Assessment of the existing ground test technology and confronting with the Large Space Structures (LSS) requirements. Thermal test techniques
12 p1781 N84-21622

Proposals for additions, modifications, and new experimental methods. Part 1: Ground tests. Part 2: Flight tests 12 p1781 N84-21623
Study on synthesis and characterization of large space systems, phase 2. Part 1: Assessment of design verification analytical methods. Volume 1: Mechanical design
[ESA-CR(P)-1779-VOL-1] 12 p1782 N84-21624
Study on synthesis and characterization of large space systems, phase 2. Part 1: Assessment of design verification analytical methods. Volume 2: Thermal design
[ESA-CR(P)-1779-VOL-2] 12 p1782 N84-21625

CONTINENTAL GUMMI-WERKE A.G., HANNOVER (WEST GERMANY).
Holographic test procedures for the evaluation of complicated material composites (tires)
[BMFT-FB-T-84-096] 21 p3407 N84-31612

CONTINUUM, INC., HUNTSVILLE, ALA.
The SRB nozzle erosion related flow analysis
[NASA-CR-170961] 07 p0965 N84-16251
Microcomputer numerical analysis system for gas dynamics application
[NASA-CR-171005] 13 p1988 N84-22906
Computational fluid mechanics utilizing the variational principle of modeling damping seals
[NASA-CR-171114] 21 p3398 N84-31553

CONTINUUM DYNAMICS, INC., PRINCETON, N. J.
Computer program for prediction of the deposition of material released from fixed and rotary wing aircraft
[NASA-CR-3780] 11 p1600 N84-20482
Numerical studies of the deposition of material released from fixed and rotary wing aircraft
11 p1602 N84-20491

CONTRAVES CORP., ZURICH (SWITZERLAND).
Study on large, ultralight long-life structures in space, phase 2C
[TM-EKR3] 08 p1120 N84-17284
Space telescope: Solar array primary development mechanism 09 p1294 N84-18456

CONTROL DATA CORP., BLOOMINGTON, MINN.
CAD/CAM data management
12 p1874 N84-22212

CONTROL DATA CORP., FORT COLLINS, COLO.
A highly optimized vectorized code for Monte Carlo simulations of SU(3) lattice gauge theories
10 p1560 N84-20219
Vectorized multigrid Poisson solver for the CDC CYBER 205 10 p1561 N84-20230

CONTROL DATA CORP., MINNEAPOLIS, MINN.
Temperature histories of commercial flights at severe conditions from GASP data
[NASA-CR-168247] 02 p0175 N84-11152
An umful of blinding functions
12 p1870 N84-22184
Control Data ICEM: A vendors IPAD-like system
12 p1890 N84-22309
Advanced document retrieval system
[AD-A139385] 14 p2247 N84-24498
Tabulations of ozonesonde data, 1963 - 1980
[NASA-CR-174631] 17 p2733 N84-27375

CONTROL DATA CORP., OAKLAND, CALIF.
VLSI circuit simulation using a vector computer
10 p1559 N84-20215

CONTROL DATA CORP., SUNNYVALE, CALIF.
Algorithms for solving large sparse systems of simultaneous linear equations on vector processors
10 p1561 N84-20227

CONTROL DYNAMICS CO., HUNTSVILLE, ALA.
Effects of bearing deadbands on bearing loads and rotor stability
[NASA-CR-170986] 10 p1501 N84-19814
Analysis of SSME HPOTP rotordynamics subsynchronous whirl
[NASA-CR-171094] 19 p2983 N84-28900

CONTROL ENERGY CORP., BOSTON, MASS.
Potential applications of cable television (CATV) to the FEMA (Federal Emergency Management Agency) communications mission
[AD-A131326] 02 p0209 N84-11367

COOPER UNION, NEW YORK.
A comprehensive model to determine the effects of temperature and species fluctuations on reaction rates in turbulent reaction flows
[NASA-CR-175365] 08 p1155 N84-17520
Models for calculating reaction rates in turbulent, reacting flows 21 p3355 N84-31281

COORDINATING RESEARCH COUNCIL, INC., ATLANTA, GA.
Low temperature behavior of fuels in simulated aircraft tanks
[AD-A130267] 01 p0052 N84-10336
Handbook of aviation fuel properties
[AD-A132106] 04 p0509 N84-13338
1981 CRC octane number requirement survey
[AD-A133369] 06 p0812 N84-15288
1981 CRC (Coordinating Research Council) diesel fuel low-temperature operability field test
[AD-A133543] 06 p0813 N84-15289
Electrostatic charging test for aviation fuel filters
[AD-A136986] 10 p1433 N84-19366
The relationship between vehicle fuel temperature and ambient temperature. 1981 CRC (Coordinating Research Council) Kapuskasing field test
[AD-A136948] 10 p1470 N84-19602

COORS PORCELAIN CO., GOLDEN, COLO.
Ceramic tube materials and processing development
[PB84-151653] 14 p2135 N84-23795
Polycrystalline MgAl2O4 spinel for high performance windows
[AD-P003202] 17 p2592 N84-26615

CORK GEOTECHNICS LTD., CASTLEMARTYR (IRELAND).
Procedures for dealing with seismically induced settlements
[AD-A140775] 17 p2728 N84-27361

CORNELL UNIV., ITHACA, N.Y.
Short-term mechanical properties of high-strength light-weight concrete 01 p0059 N84-10387
Spirally-reinforced high-strength concrete columns
[PB83-223297] 01 p0059 N84-10388
Time-dependent behavior of high-strength concrete sustained compressive stresses
[PB83-227041] 01 p0060 N84-10391
Inelastic deformation of crystaline nonmetallic solids
[DE83-014594] 01 p0155 N84-11020
Studies related to the deep Earth gas
[PB83-244004] 02 p0251 N84-11644
Unified theory of plasma correlations
[AD-A131478] 02 p0296 N84-11938
Matrix calibration for the quantitative analysis of layered semiconductors by secondary ion mass spectrometry
[AD-A130972] 02 p0298 N84-11954
Vortex stability and breakdown
03 p0325 N84-12122
Design of doubly focusing, tunable (5 - 30 keV), wide-bandpass optics made from layered synthetic microstructures
[DE83-015492] 03 p0441 N84-12897
Spherical simulations of large scale structure in the universe 03 p0463 N84-13052
Point-by-Point matrix effect calibration for the quantitative analysis of layered semiconductors by secondary ion mass spectrometry
[AD-A134099] 05 p0752 N84-14933
A study of the return to isotropy of homogeneous turbulence 06 p0780 N84-15110
A lower-upper factored implicit scheme for the numerical solution of the Euler equations applied to arbitrary cascades 06 p0780 N84-15111
On 3He bolometer systems
[NASA-CR-175325] 06 p0846 N84-15520
An integrated system for shells with discontinuities: Geometric modelling and finite element analysis
06 p0856 N84-15576
A periodically forced piecewise linear oscillator
06 p0856 N84-15577
Finite element and boundary element analysis of large strain large displacement problems in elastoplasticity
06 p0857 N84-15580
Basic vision events
[AD-A132746] 06 p0890 N84-15782
Primary events in vision - investigation of basic eye responses
[AD-A132747] 06 p0890 N84-15783
Interactions of vibrationally excited molecules with solid surfaces
[AD-A133449] 06 p0915 N84-15950
Determination of ionization rates in the principal crystallographic directions in silicon
[AD-A133513] 06 p0923 N84-15999
Observation of the effect of solute segregation on grain boundary structure
[DE84-002964] 07 p0975 N84-16319
Pulsed laser melting: The effect of implanted solutes on the resolidification velocity
[DE84-003252] 07 p1010 N84-16552
Radar investigation of asteroids
[NASA-CR-175350] 07 p1090 N84-17090
Radar investigations of asteroids
[NASA-CR-175348] 07 p1092 N84-17100
C-h and h-h activation in transition metal complexes and on surfaces
[AD-A136468] 09 p1279 N84-18350
Migration of grain boundaries in ceramic materials with particular reference to the sintering process
[DE84-004086] 09 p1289 N84-18414
A renormalization group model for the stick-slip behavior of faults
[NASA-CR-173362] 09 p1344 N84-18782
Amyloplast movement in living statocytes
09 p1351 N84-18830
Proceedings of the 12th Conference on Stochastic Processes and Their Applications, Ithaca, N.Y., 11-15 Jul. 1983
[AD-A136626] 09 p1376 N84-18991
The Jack Kiefer-Jacob Wolfowitz Memorial Statistical Research Conference
[AD-A136490] 09 p1381 N84-19021
Laser and plasma research
[AD-A136519] 09 p1397 N84-19125
Workhardening correlations based on state variables in some FCC metals in monotonic loadings
[DE84-004880] 10 p1461 N84-19540
Repeated load relaxations of type 316 austenitic stainless steel
[DE84-004875] 10 p1461 N84-19541
Load relaxation testing at medium strain rates
[DE84-004877] 10 p1461 N84-19544
Finite element analysis of metal forming processes with thermomechanical coupling
[DE84-004879] 10 p1462 N84-19548
Applicability of Hart's state variable model to large strain rate ranges
[DE84-004878] 10 p1462 N84-19549
Unified theory of the power spectrum of long wavelength ionospheric electron density irregularities
[AD-A137356] 10 p1537 N84-20068
Was the early Earth completely molten?
11 p1755 N84-21460
Intersection of parametric surfaces using lookup tables 12 p1870 N84-22185
Interactive computer graphic surface modeling of three-dimensional solid domains for boundary element analysis 12 p1873 N84-22208
Broadband rotor noise analyses
[NASA-CR-3797] 12 p1899 N84-22365
Band-overlap metallization of BaS, BaSe and BaTe
[NASA-CR-173396] 12 p1912 N84-22458
Modification of the near surface region metastable phases and ion induced reactions
[AD-A138842] 13 p1952 N84-22694
Photometry of icy satellites: How important is multiple scattering in diluting shadows?
13 p2073 N84-23438
Comparison of Hapke's photometric theory with Voyager observations of Europa, Enceladus, Rhea and Mimas
13 p2074 N84-23439
Wind streaks on Mars: Comparisons of production models with observations of bright streaks
13 p2081 N84-23486
Dust streaks on Mars: Colors and photometry
13 p2082 N84-23489
Monte Carlo calculations of two-dimensional combustor flows
[AD-A139569] 14 p2123 N84-23724
Wrinkled-flame calculations revisited
[AD-P002973] 14 p2201 N84-24209
Are detonations steady?
[AD-P002975] 14 p2201 N84-24211
Ion implanted GaAs IC. Process technology
[AD-A139348] 14 p2242 N84-24461
Understanding picture-text instructions
[AD-A139746] 15 p2382 N84-25287
Dense Coulomb plasmas: Quantum statistics and ordering 15 p2410 N84-25464
Oxide bond energies for the calibration of matrix effects in secondary ion mass spectrometry
[AD-A139633] 15 p2413 N84-25483
Microwave, semiconductor research - materials, devices and circuits
[AD-A140052] 15 p2413 N84-25489
Theory of rotating stall of multistage axial compressors 16 p2489 N84-25964
Radar investigation of asteroids
[NASA-CR-173603] 16 p2576 N84-26530
Calculation of transonic potential flow past wing-tail-fuselage configurations using the multigrid method 17 p2599 N84-26657
An integrated boundary element analysis system with interactive computer graphics for 3-dimensional linear-elastic fracture mechanics
17 p2676 N84-27048
Integrated analysis and design of steel frames with interactive computer graphics 17 p2677 N84-27049
Influence of microstructure, stress-state and environment on superplastic flow and fracture in glass-ceramics 17 p2677 N84-27050
Numerical analysis of time-dependent inelastic fracture 17 p2677 N84-27054
The MST radar technique: Requirements for operational weather forecasting 17 p2682 N84-27077
Radar observations of inertial period waves in the lower stratosphere over Arecibo 17 p2683 N84-27081
Effects of pulse width and coding on radar returns from clear air 17 p2684 N84-27092
Radar interferometer measurements
17 p2688 N84-27114

The MST radar technique: A tool for investigations of turbulence spectra 17 p2688 N84-27117
Capabilities and limitations of the Jicamarca radar as an MST radar 17 p2690 N84-27130
Pulse compression using binary phase codes 17 p2692 N84-27145
School of Electrical Engineering. 17 p2694 N84-27156
Coherent integration 17 p2695 N84-27162
Signal processor architecture for backscatter radars 17 p2695 N84-27164
Parmeterization of spectra 17 p2696 N84-27170
Managing distributed databases in partitioned networks 17 p2772 N84-27599
A physical and chemical study of Titan: Atmosphere, clouds, and hazes 17 p2776 N84-27628
Carbon, oxygen and their interaction with intrinsic point defects in solar silicon ribbon material: A speculative approach
[NASA-CR-173756] 18 p2870 N84-28221
Structural characterization of solar silicon 18 p2939 N84-28640
Failure by creep cracking and creep fatigue interaction in nickel base superalloys
[AD-A141112] 19 p2993 N84-28967
Long wavelength photoconductive detectors for airborne and orbital infrared astronomy
[NASA-CR-166586] 19 p3026 N84-29192
Topics in large sparse nonlinear optimization
[DE84-008933] 19 p3090 N84-29620
The puzzling dynamics of Saturn's F-ring 19 p3119 N84-29827
Thin film synthesis of superconducting chemical compounds
[AD-A142541] 20 p3148 N84-29992
Simulation of ultra-low emittance electron storage rings
[DE84-012050] 20 p3310 N84-31024
Environment and fracture
[DE84-011454] 21 p3367 N84-31360
Asteroid light inversion
[NASA-CR-173864] 21 p3523 N84-32316
Probabilistic models of the stress-rupture of composite materials: Summary
[DE84-013477] 22 p3545 N84-32441
Interactions of twin boundaries and dislocations in solar silicon
[NASA-CR-173942] 23 p3789 N84-34032
Decentralized system theory
[DE84-013658] 23 p3820 N84-34227
An optimal sequential Bernoulli selection procedure
[AD-P003841] 24 p3939 N84-34929
Participation in the Mars data analysis program: Global and regional studies of wind-indicators on the surface of Mars
[NASA-CR-173982] 24 p3992 N84-35261

CORNELL UNIV., NEW YORK, N.Y.

Recursion formulas and limit theorems for the lifetime distribution of a model fibrous composite 11 p1626 N84-20645
Experimental study of turbulent swirling flows 11 p1650 N84-20776
Photometric properties of Europa and the icy satellites of Saturn 11 p1756 N84-21465
Simulations of galaxy mergers 11 p1757 N84-21470

CORNING GLASS WORKS, N.Y.

Factory splicing of optical waveguide fiber 11 p1720 N84-21222

CORPS OF ENGINEERS, CHICAGO, ILL.

The Total Library System (TLS). Volume 1: What it can do for you
[AD-A130336] 01 p0161 N84-11058

CORPS OF ENGINEERS, WASHINGTON, D.C.

The leader of the Army acquisition workforce
[AD-P002762] 13 p2052 N84-23309

CORPUS CHRISTI ARMY DEPOT, TEX.

Project: Acquisition strategy
[AD-P002809] 13 p2059 N84-23355

COSTRUZIONI AERONAUTICHE GIOVANNI AGUSTA S.P.A., GALLARATE (ITALY).

Advanced ND techniques for composite primary structures 01 p0034 N84-10216

COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH, PRETORIA (SOUTH AFRICA).

Mutual solubility and properties of polyolefins and polyisoprene mixtures
[CSIR-TRANS-1647] 01 p0029 N84-10185
Effect of high pressures and temperatures in pyrolytic boron nitride
[CSIR-1684] 01 p0030 N84-10189
Structures and properties of new types of cubical boron nitride
[CSIR-TRANS-1683] 01 p0030 N84-10190
Method of production of nitrophosphates
[CSIR-TRANS-1689] 01 p0036 N84-10225
Electrothermal production of magnesium
[CSIR-TRANS-1679] 01 p0039 N84-10250
Effect of structural factors on the crack resistance of tungsten carbide/cobalt alloys at high temperatures
[CSIR-1682] 01 p0042 N84-10269
Rubber mixture softener: A product of thermal breakdown of substandard polysoprene
[CSIR-TRANS-1649] 01 p0048 N84-10311
Vulcanizate structure of isoprene chloroprene rubber combination
[CSIR-TRANS-1646] 01 p0048 N84-10312
Effect of modifying additives on the properties of polymer blends
[CSIR-1690] 01 p0049 N84-10313
Theoretical calculation of the temperature dependence of thermal conductivity of glass
[CSIR-TRANS-1686] 01 p0049 N84-10314
Genera use of CBN in tool grinding: Technology and economics
[CSIR-TRANS-1688] 01 p0056 N84-10367
Grinding of cast iron with wheels made of superhard materials
[CSIR-TRANS-1687] 01 p0056 N84-10368
Comments on Bing's paper On a Posteriori Probability, and reply to Professor L. Lorenz
[CSIR-TRANS-1658] 01 p0128 N84-10838
Effect of molecular-structural characteristics of cis-1,4 polyisoprene on the melting temperature of the orientated crystaline phase
[CSIR-TRANS-1643] 01 p0152 N84-10999
The reciprocal influence of functional groups in substitution reactions on the diamond surface
[CSIR-TRANS-1685] 01 p0152 N84-11000
Work done to determine the source of errors on conditioned pressure transduce signals in the JT9D-7F turbofan engines used on SAA Boeing 747 aircraft
[NIAST-82/78] 04 p0486 N84-13192
Symposium on Computers in Civil Engineering
[CSIR-S-267] 04 p0577 N84-13806
Activities of the National Chemical Research Laboratory
[CSIR-SR-CHEM-261] 06 p0796 N84-15188
Analytical chemistry 06 p0796 N84-15189
Biological chemistry 06 p0796 N84-15190
Corrosion research 06 p0797 N84-15191
Inorganic chemistry 06 p0797 N84-15192
Precipitation of metals from solutions by baser metals
[CSIR-1712] 06 p0804 N84-15242
Observations on the vanadium-nitrogen system and on pure metallic vanadium
[CSIR-TRANS-1708] 06 p0805 N84-15243
Advantages of using diamond tools brazed under high vacuum
[CSIR-TRANS-1709] 06 p0813 N84-15293
New profilable bond system for diamond and CBN grinding wheels
[CSIR-TRANS-1707] 06 p0813 N84-15294
Small solute concentration differences determined by interferometry
[CSIR-CENG-424] 07 p0969 N84-16278
An accurate and economical finite element family for large order structural analysis
[CSIR-ME-1780] 07 p1015 N84-16584
Design report: Two axis rotational rate measurement system using rate gyros
[NIAST-83/08] 07 p1068 N84-16938
Design and construction of the injector cyclotron (SPC1); the injection beamline and the Separated-Sector Cyclotron (SSC)
[NAC/AR-82-01] 07 p1074 N84-16976
International Conference on Recent Developments in Specialty Steels and Hard Materials 08 p1130 N84-17348
Heat treatment and residual austenite
[CSIR-TRANS-1704] 08 p1130 N84-17349
Aspects of the grinding process
[CSIR-TRANS-1694] 08 p1140 N84-17416
The use of diamond core saws in the electronics industry
[CSIR-TRANS-1702] 08 p1140 N84-17417
Wheel efficiency in the diamond-spark erosion grinding of tungsten carbides
[CSIR-TRANS-1693] 08 p1140 N84-17418
Dressing methods for grinding wheels made of superhard abrasive materials
[CSIR-TRANS-1700] 08 p1141 N84-17419
On the use of diamond and cubical boron nitride abrasives in automatic honing applications
[CSIR-TRANS-1640] 08 p1141 N84-17420
Mini-Seminar on Quality Assurance
[CSIR-TSD-0008/82] 08 p1167 N84-17600
Quality management in procurement 08 p1167 N84-17601
Design QA on a small batch project 08 p1168 N84-17603
Possibility of investigation of Kimberlite pipes by superconductive geomagnetic variation measuring stations
[CSIR-TRANS-1701] 08 p1185 N84-17724
Proceedings of the 18th International Conference on Coastal Engineering
[ISBN-0-7988-2553-7] 08 p1194 N84-17783
Mini-seminar on Joining Techniques
[CSIR-TSD-0005/82] 09 p1291 N84-18431
Cold-form tapping of internal threads 09 p1292 N84-18435
Fourth Seminar on Efficient Metal Forming and Machining
[ISBN-0-7988-2556-1] 09 p1292 N84-18438
Frigair 1983. Papers
[CSIR-S-281] 11 p1639 N84-20717
Computer-Aided Engineering (CAE) in plastics technology
[CSIR-TRANS-1725] 21 p3370 N84-31380
Turning of hardened ferrous materials with homogeneous CBN tool tips
[CSIR-TRANS-1728] 21 p3375 N84-31418
New sapphire and ruby components and their manufacture using diamond abrasives
[CSIR-TRANS-1734] 21 p3375 N84-31419
Grinding with Borazon: Progress and rewards
[CSIR-TRANS-1718] 21 p3375 N84-31420
Internal grinding of high-speed steels: Shorter processing times with boron nitride grinding tools
[CSIR-TRANS-1719] 21 p3376 N84-31421
The Lithosphere programme
[CSIR-TRANS-1724] 21 p3443 N84-31841
Microtopography of micro-diamonds from sedimentary covers in the southwestern part of the Eastern European platform and a possible genetic interpretation
[CSIR-TRANS-1726] 21 p3443 N84-31842
X-ray diffraction study of the phase composition of the crystallization medium and inclusions in synthetic diamonds
[CSIR-TRANS-1723] 21 p3504 N84-32203
New technical information media
[CSIR-TRANS-1731] 21 p3518 N84-32284
CSIR activities in South Africa
[ISBN-0-7988-3029-8] 21 p3527 N84-32340
Metal coating of diamond abrasives (review of foreign patents)
[CSIR-TRANS-1740] 22 p3552 N84-32489
Slavutich high-cobalt WC-Co-matrix alloy
[CSIR-TRANS-1739] 22 p3552 N84-32490
Pastes of superhard materials (review of inventions)
[CSIR-TRANS-1741] 22 p3552 N84-32491
Effect of formation conditions and contact zone structure on adhesion strength of carbide forming metal coatings on diamond
[CSIR-TRANS-1735] 22 p3552 N84-32492
Sintered hard metal alloys and process for their manufacture
[CSIR-TRANS-1748] 22 p3552 N84-32493
Obtaining iron-55 with high radiochemical purity
[CSIR-TRANS-1751] 22 p3553 N84-32494
Coatings on diamond and CBN abrasives (review of inventions)
[CSIR-TRANS-1742] 22 p3557 N84-32525
A diffusion mechanism in the catalytic conversion of carbonaceous materials into diamonds at high pressures
[CSIR-TRANS-1743] 22 p3557 N84-32526
Development and testing of glass coatings for Hexanite-A powders
[CSIR-TRANS-1747] 22 p3557 N84-32527
Diamond synthesis from various graphites
[CSIR-TRANS-1749] 22 p3558 N84-32528
Structure of polycrystalline boron nitride as determined by electron microscopic thin sections
[CSIR-TRANS-1738] 22 p3558 N84-32533
Economic use of CBN grinding tools in the production of jet turbine components
[CSIR-TRANS-1736] 22 p3563 N84-32561
Economical grinding of steel and sintered carbides using superhard abrasives and high temperature-resistant bonds
[CSIR-TRANS-1744] 22 p3563 N84-32562
Forty years of development in diamond tools
[CSIR-TRANS-1730] 22 p3563 N84-32564
New machines for grinding, facetting and profiling hard materials
[CSIR-TRANS-1750] 22 p3603 N84-32821
The octahedron-rhombododecahedron morphological series of synthetic diamond crystals
[CSIR-TRANS-1746] 22 p3661 N84-33205
Epitaxial crystallization in the Te-HgTe-CdTe system
[CSIR-TRANS-1745] 22 p3661 N84-33206
EPR investigation of inclusions in cubic boron nitride crystals
[CSIR-TRANS-1752] 22 p3661 N84-33207

Effect of annealing under thermodynamically stable conditions on the formation and transformation of structural defects in diamond monocrystals
[CSIR-TRANS-1737] 23 p3629 N84-34288
Crystallization of cubic boron nitride in the presence of silicon
[CSIR-TRANS-1753] 23 p3629 N84-34289

COUNCIL OF STATE GOVERNMENTS, WASHINGTON, D.C.
State remote sensing (LANDSAT) programs catalog
[E84-10127] 14 p2168 N84-23985

CRANBROOK INST. OF SCIENCE, BLOOMFIELD HILLS, MICH.
Partitioning of toxic trace metals between solid and liquid phases in the Great Lakes
[PB84-177849] 20 p3230 N84-30525

CRANFIELD INST. OF TECH., BEDFORDSHIRE (ENGLAND).
Experimental methods in flight for the measurement of control characteristics 01 p0014 N84-10091
On the generation and subsequent development of spiral vortex flow over a swept-back wing 03 p0322 N84-12105
The effects of wing tip devices on the performance of the BAe Jetstream 03 p0326 N84-12130
The effect of wing tip devices on the far-field wake of a Paris Aircraft 03 p0326 N84-12131
Stiffness changes in unidirectional composites caused by crack systems
[CA-8311] 06 p0798 N84-15198
A review of theories currently being used to model steady plane flames on flame-holders
[CA-8316] 06 p0800 N84-15218
Second order theory of unsteady burned-anchored flames with arbitrary Lewis number
[CA-8313] 06 p0801 N84-15219
An evaluation of a mobile aerodynamic test facility for hang glider wings
[COFA-8330] 10 p1432 N84-19361
Bodies in compressible flow: The use of axial singularity distributions
[COLL-AERON.-8329] 11 p1600 N84-20483
Ground effect on a rotor wake
[ISBN-0-902937-93-6] 11 p1601 N84-20484
Effects of airblast atomizer design upon spray quality 15 p2290 N84-24744
Full scale wind tunnel tests on hang glider pilots
[CA-8416] 16 p2438 N84-25643
A technique for optimizing the aerodynamic design of a generalized combat aircraft with forward swept wings for the purposes of stability and control investigation
[CA-8325] 16 p2448 N84-25700
Evolution of a heave control system for an amphibious hovercraft
[CAR-8401] 16 p2475 N84-25864
Turbulent Prandtl number distribution within the constant stress/heat-flux region of a near-wall flow
[SME-8401] 16 p2486 N84-25945
A ring source method for predicting the aerodynamic characteristics of bodies of revolution
[COA-8409] 19 p2957 N84-28744
Quasi-steady flames on an evolving atmosphere
[CAR-8406] 21 p3358 N84-31302
Another look at the use of complex sources for the generation of bodies of revolution in incompressible flow
[CAR-8412] 21 p3398 N84-31555
Transition bifurcation branches in non-linear water waves
[CAR-8418] 21 p3398 N84-31556
Splash and spray from road vehicles and associated topics: A bibliography
[CAR-8425] 21 p3398 N84-31557
Transition description and prediction in three-dimensional flows 23 p3748 N84-33761

CRC SYSTEMS, INC., FAIRFAX, VA.
Guide to software conversion management
[PB84-118314] 09 p1370 N84-18945

CREARE, INC., HANOVER, N.H.
A miniature tilting pad gas lubricated bearing 06 p0819 N84-15340

CRIMEAN ASTROPHYSICAL OBSERVATORY (USSR).
Evaluation of the significance of the data on the 160.01 min oscillations of the Sun treated by the superposed epoch analysis 09 p1408 N84-19203
A model atmosphere analysis of the Am star 68 Tau 15 p2422 N84-25548

CRYSTACOMM, INC., MOUNTAIN VIEW, CALIF.
Development of high purity IP crystals
[AD-A135937] 09 p1395 N84-19114

CRYSTAL SPECIALTIES, INC., MONROVIA, CALIF.
Ion implanted GaAs IC. Process technology
[AD-A139348] 14 p2242 N84-24461

CTI-CRYOGENICS, INC., WALTHAM, MASS.
Closed cycle cryocooler for low temperature electronics circuits: Cold end test
[AD-A134043] 05 p0662 N84-14354

CUKUROVA UNIV., ADANA (TURKEY).
Piecewise monotone interpolation and approximation with generalized polynomials 15 p2402 N84-25416

CUMMINS ENGINE CO., INC., COLUMBUS, IND.
Synfuel modified diesel
[DE84-002189] 10 p1502 N84-19819
Utilization of SRC-2 fuel in an insulated diesel engine
[DE84-004386] 20 p3167 N84-30111
Positive displacement compounding of a heavy duty diesel engine
[NASA-CR-168286] 21 p3413 N84-31641

CURTISS-WRIGHT CORP., WOOD-RIDGE, N.J.
High-temperature-turbine-technology program. Phase 2: Technology test and support studies
[DE83-015200] 01 p0092 N84-10597

CYBERCOM CORP., ARLINGTON, VA.
UHF radiowave propagation through forests
[AD-A130399] 01 p0062 N84-10408

CYCLOTOMICS, INC., BERKELEY, CALIF.
Applications of coding to spread spectrum communications 13 p1976 N84-22829

D

D-PEEK, INC., BOULDER, COLO.
Effects of atmospheric turbulence on optical propagation 15 p2325 N84-24961

DAEDALEAN ASSOCIATES, INC., WOODBINE, MD.
Development of a high pressure water jet for the rapid removal of concrete
[PB84-109909] 08 p1142 N84-17426
Technical report on sprayable compliant coatings
[PB84-178011] 17 p2627 N84-26810

DAIMLER-BENZ A.G., STUTTGART (WEST GERMANY).
Ceramic components for gas turbines, phase 2
[BMFT-FB-T-83-198] 08 p1105 N84-17183

DAME (RICHARD E.), SILVER SPRING, MD.
Line-focusing adjustable parabolic splar-concentrating collector
[DE84-001590] 06 p0874 N84-15687

DANISH DEFENCE COMMAND, COPENHAGEN.
Handling of hydrazine in the Royal Danish Air Force 22 p3631 N84-33014

DANISH DEFENCE COMMAND, VEDBAEK.
Aeromedical support of helicopter medical evacuation and rescue operations 16 p2537 N84-26289

DANISH METEOROLOGICAL INST., COPENHAGEN.
The geomagnetic elements in Denmark 1928-1980
[ISBN-87-7478-219-3] 14 p2174 N84-24024
HF omnidirectional spectral CW auroral radar (HF-OSCAR) at very high latitude. Part 1: Technique
[DMI-GEOPHYS-PAPERS-R-67] 19 p3010 N84-29079
Thule Geophysical Observatory: Magnetic results, 1978
[ISBN-87-7478-211-8] 19 p3053 N84-29372
Godhavn Geophysical Observatory: Magnetic results, 1977
[ISBN-87-7478-213-4] 19 p3055 N84-29385
Thule Geophysical Observatory: Magnetic results, 1975
[ISBN-87-7478-206-1] 19 p3055 N84-29386
Thule Geophysical Observatory: Magnetic results, 1976
[ISBN-87-7478-208-8] 19 p3055 N84-29387
Thule Geophysical Observatory: Magnetic results, 1977
[ISBN-87-7478-209-6] 19 p3055 N84-29388
Thule Geophysical Observatory: Magnetic results, 1979
[ISBN-87-7478-214-2] 19 p3055 N84-29389

DANISH SPACE RESEARCH INST., LYNGBY.
Occurrences of the polar Slant E Condition (SEC) at Narssarssuaq, Godhavn, Thule, 1961
[ISSN-0108-2922] 02 p0251 N84-11642

DARESBURY NUCLEAR PHYSICS LAB. (ENGLAND).
Topographic EXAFS
[AD-A137116] 12 p1915 N84-22475

DARTMOUTH COLL., HANOVER, N.H.
Periodic spectral variation in Cygnus X-2 and Scorpius X-1 06 p0937 N84-16088
Magnetopause studies using data from the ISEE mission
[NASA-CR-175208] 08 p1185 N84-17718
Magnetic field reconnection at the magnetopause: An overview 08 p1185 N84-17719
Failure of vincristine induce twinning 09 p1358 N84-18872
Stimulated Cerankov-Raman scattering
[AD-A136473] 09 p1387 N84-19061
Superconductivity in filamentary eutectic composites
[DE84-005167] 10 p1453 N84-19489
Investigation of forestry resources and other remote sensing data. 1: LANDSAT. 2: Remote sensing of volcanic emissions
[E84-10092] 10 p1522 N84-19963
Factors influencing thermomechanical failure of face seals, 3
[AD-A138546] 13 p1997 N84-22961
A Cerenkov-Raman maser
[AD-A139275] 14 p2150 N84-23683
Electron cyclotron radiation from mirror-confined plasma
[DE84-008665] 20 p3302 N84-30970
Role of grain size on the brittle to ductile transition of the strongly ordered alloy Ni3Al
[DE84-014904] 22 p3556 N84-32519
Observations of the ultraviolet spectra of helium (DB) white dwarfs and a study of the ultraviolet spectra of white dwarfs containing carbon
[NASA-CR-173889] 22 p3677 N84-33310
High power millimeter wavelength coherent radiation sources
[AD-A144481] 24 p3909 N84-34759

DASSAULT (E. M.) CO., ST. CLOUD (FRANCE).
Certifying onboard software: A total progressive approach 15 p2269 N84-24625

DAVE (SHARAD M.), FARMINGTON HILLS, MICH.
Controlled combustion engine evaluation
[DE83-011245] 03 p0384 N84-12499

DAWKINS (WILLIAM P.), STILLWATER, OKLA.
User's guide: Computer program for analysis of two-dimensional beam-columns with nonlinear supports (CBNTBM)
[AD-A143170] 21 p3466 N84-31974

DAYTON UNIV., OHIO.
Three-dimensional test experience with a transonic adaptive-wall wind tunnel
[AD-A129858] 01 p0016 N84-10102
Numerical simulation of flow around a three-dimensional turret
[AD-A128686] 01 p0078 N84-10507
A total life prediction model for stress concentration sites
[NASA-CR-168225] 01 p0094 N84-10612
MAGNA (Materially And Geometrically Nonlinear Analysis). Part 2: Preprocessor manual
[AD-A129025] 01 p0120 N84-10782
MAGNA (Materially And Geometrically Nonlinear Analysis). Part 4. Quick-reference manual
[AD-A129026] 01 p0120 N84-10783
Aircraft transparency testing methodology and evaluation criteria. Part 2: Methodology development for improved durability
[AD-A131928] 03 p0331 N84-12157
Aircraft transparency testing methodology and evaluation criteria. Part 1: Test methods and information analysis
[AD-A131927] 03 p0331 N84-12158
Alternate T-38 transparency development. Part 4: Parametric studies
[AD-A131904] 03 p0331 N84-12159
Long term evaluation of the effects of shale oil produced JP-4 on aircraft construction materials
[AD-A131665] 03 p0331 N84-12161
Mechanical property evaluation of P/M (Powder-Metallurgy) aluminum 7090-T7E71 plate
[AD-A132058] 03 p0352 N84-12290
Study and review of permanent magnets for electric vehicle propulsion motors
[NASA-CR-168178] 04 p0617 N84-14071
Nonlinear oscillations of a fluttering panel in a transonic airstream
[AD-A133918] 05 p0627 N84-14124
On the application of holographic interferometry to axisymmetric air flows 05 p0678 N84-14458
FOD (Foreign Object Damage) generation by aircraft tires
[AD-A133319] 06 p0786 N84-15146
Development of an interactive computer program to produce body description data
[AD-A133720] 06 p0897 N84-15822
High strain rate characterization of materials
[AD-A134342] 07 p1016 N84-16593
Aircrew training devices: Utility and utilization of advanced instructional features. Phase I: Tactical Air Command
[AD-A135052] 08 p1106 N84-17190
Instructor station display for use in T-37 flight simulation training
[AD-A134854] 08 p1106 N84-17191
The effects of the space environment on damping materials and damping designs on flexible structures 08 p1110 N84-17217
Prediction of an apparent flame length in a co-axial jet diffusion flame combustor
[AD-A135088] 08 p1123 N84-17303

Model compound studies of rigid rod aromatic heterocyclic polymer systems, the X-ray crystal structure of 2,6-diphenylbenzo (1,2-d; 5,4-d') diimidazole tetrahydrate, C2OH14N4. 4H2O, a model system for the study of polymer-water interaction in polybenzimidazoles
[AD-A135278] 08 p1137 N84-17393

Laser diagnostic development and measurement and modeling of turbulent flowfields of jets and wakes. Part 1: Two-dimensional laser Doppler anemometer studies of isothermal flowfield in a ducted centerbody combustor
[AD-A134691] 08 p1158 N84-17542

Laser diagnostic development and measurement and modeling of turbulent flowfields of jets and wakes. Part 2: Numerical predictions of isothermal flowfields in a ducted centerbody combustor
[AD-A134692] 08 p1159 N84-17543

Laser diagnostic development and measurement and modeling of turbulent flowfields of jets and wakes. Part 3: The development of a 2-channel CW Time-Resolves Laser Raman Spectroscopy (TiLaRS) system for measurements in gas flowfields
[AD-A134693] 08 p1159 N84-17544

Effect of suction on the wake structure of a three-dimensional turret
[AD-A135897] 09 p1252 N84-18174

Evaluation of the crack growth gage concept as an individual aircraft tracking device, volume 1
[AD-A136932] 10 p1428 N84-19340

A study of the magnetic and metallurgical properties of Sm(Co,Fe,Cu, Zr) sub z alloys near z = 8.5
[AD-A138253] 12 p1798 N84-21728

A review study of nondestructive test techniques for residual stresses in aircraft transparencies
[AD-A138930] 13 p1930 N84-22555

Hydrolytic degradation of kapton film
[AD-A139016] 13 p1964 N84-22762

Development of an impact resistant test method for polycarbonate
[AD-A139082] 13 p2002 N84-22988

A dynamic personnel assignment model in the R and D environment
[AD-P002765] 13 p2052 N84-23312

Nozzle tests for simulating heavy rain in a wind tunnel
[AD-A139566] 14 p2111 N84-23657

User's guide for COMBIMAN programs (Computerized Biomechanical Man-Model), version 6
[AD-A139139] 14 p2184 N84-24086

Active suppression of aeroelastic instabilities for forward swept wings 16 p2438 N84-25638

Fatigue crack growth rate data for aluminum alloy 6061-t651 plate
[AD-A140325] 16 p2469 N84-25824

Phase change materials for use in passive and hybrid solar heating and cooling systems 16 p2518 N84-26184

Conference on Aerospace Transparent Materials and Enclosures
[AD-A140701] 17 p2589 N84-26596

The effect of accelerated ultra violet weathering on the rain erosion resistance of coated aircraft transparencies
[AD-P003194] 17 p2591 N84-26607

Simulation of exposure of aircraft transparencies to flight line environment
[AD-P003212] 17 p2594 N84-26625

Alternate T-38 transparency development
[AD-P003219] 17 p2595 N84-26632

Parametric studies of the T-38 student windshield using the finite element of code MAGNA (Materially and Geometrically Nonlinear Analysis)
[AD-P003232] 17 p2597 N84-26645

Current problems and progress in transparency impact analysis
[AD-P003233] 17 p2597 N84-26646

Survey of urban meteorological data
[AD-A140890] 17 p2734 N84-27380

Proceedings of the 5th Symposium on applied surface analysis
[AD-A140744] 17 p2768 N84-27576

Effects of surface flaws on impact resistance of uncoated polycarbonate
[AD-A141364] 19 p2998 N84-28998

A review of crack closure
[AD-A142273] 19 p3036 N84-29261

Thrust augmentation study of high performance ejectors
[AD-A142650] 20 p3126 N84-29856

Flaw detection reliability criteria. Volume 1: Methods and results
[AD-A142001] 20 p3199 N84-30320

Differential scanning calorimeter data acquisiton system
[AD-A143118] 21 p3405 N84-31600

Conceptual design of an electrofluid dynamic wind energy system
[DE84-004512] 21 p3435 N84-31795

Mechanical property data 15-5PH (H1025) stainless steel alloy: Hot-rolled plate
[AD-A143327] 22 p3555 N84-32510

Mechanical property data 7175-t736 aluminum alloy: Hand forging
[AD-A143328] 22 p3555 N84-32511

Improving the birdstrike resistance and durability of aircraft windshield systems: Program technical summary
[AD-A143712] 23 p3691 N84-33395

Evaluation of COD (Crack-Opening-Displacement) compliance determined crack growth rates
[AD-A144037] 23 p3761 N84-33838

Optical and electrical characterization of multiply doped silicon: A study of the Si:(In, Al) system
[AD-A143820] 23 p3830 N84-34294

The SCEPTRE facility: Improved simulation of the space environment through the application of advanced technology 24 p3862 N84-34474

DCW INDUSTRIES, LA CANADA, CALIF.

Development of a complete model of turbulence revisited
[AD-A138145] 12 p1816 N84-21836

DE BEERS DIAMOND RESEARCH LAB., JOHANNESBURG (SOUTH AFRICA).

The current status of diamond and cubic boron nitride composites 09 p1292 N84-18441

DE HAVILLAND AIRCRAFT CO. OF CANADA LTD., DOWNSVIEW (ONTARIO).

Aeroelastic design considerations for turboprop powerplant installations 02 p0171 N84-11123

DEACON RESEARCH, PALO ALTO, CALIF.

Anomalous laser induced bunch lengthening on the ACO storage ring free electron laser
[AD-A138814] 13 p1995 N84-22949

Measurement of the transverse mode excitation in the stimulated emission of the ACO free electron laser
[AD-A143449] 22 p3601 N84-32808

DECISION SCIENCE CONSORTIUM, INC., FALLS CHURCH, VA.

Tactical decision aids which quantify judgment
[AD-P002889] 13 p1979 N84-22850

Research on cognitive collaboration between persons and computers
[AD-P002892] 13 p1980 N84-22853

DECISIONS AND DESIGNS, INC., MCLEAN, VA.

Psychological research on advanced terrain representation: Formatting the visual material
[AD-A139782] 15 p2382 N84-25288

DEFENCE AND CIVIL INST. OF ENVIRONMENTAL MEDICINE, DOWNSVIEW (ONTARIO).

The effects of sleep loss and sustained mental work: Implications for command and control performance 11 p1697 N84-21069

An unusual toxicological property of alcohol: The density effect on the organ of balance 22 p3632 N84-33016

Emergency handling of compressed air casualties
[AD-A143598] 23 p3810 N84-34157

DEFENCE CENTRE, MELBOURNE (AUSTRALIA).

Detecting camouflaged targets: Theory into practice 24 p3914 N84-34784

DEFENCE MATERIEL ADMINISTRATION, STOCKHOLM (SWEDEN).

Swedish Air Force maintenance programme for aged transparent enclosures for jet trainer and jet fighter aircraft
[AD-P003208] 17 p2593 N84-26621

DEFENCE RESEARCH ESTABLISHMENT, OTTAWA. (ONTARIO).

Procedures for static and constant-rate tests on a Single-Degree-of-Freedom (SDF) strapdown gyroscope
[AD-A136632] 09 p1318 N84-18609

Comparison of seam types
[AD-A137383] 10 p1466 N84-19574

An evaluation of a hydrophobic silica pigment used as a water-repellent finish
[AD-A137389] 10 p1466 N84-19575

Fluoroalkyl siloxanes as liquid-repellent fabric finishes. Part 3: The durability of the copolymers and comparisons with commercially available finishes
[AD-A136662] 10 p1467 N84-19579

Effects of fuels on the physical properties of nitrile rubber O-rings
[AD-A136647] 10 p1470 N84-19599

Properties of fuels employed in a gas turbine combustor program
[AD-A136663] 10 p1470 N84-19600

A study of the rechargeability of the Red Camel lead-acid battery between +20 deg C and -30 deg C
[AD-A137835] 11 p1646 N84-20764

Calibration of engines laboratory air flow measuring devices
[AD-A137909] 11 p1660 N84-20831

Performance evaluation of a Magnavox GPS (Global Positioning System) Z-set
[AD-A138569] 13 p1929 N84-22547

Comparison of JFTOT (Jet Fuel Thermal Oxidation Tester) and absorbance methods for determining jet fuel thermal stability
[AD-A138673] 15 p2304 N84-24825

Guidelines for Man/Display interfaces with relevance to military environments
[AD-A142171] 19 p3071 N84-29482

Recent re-measurement of neutron and gamma-ray spectra 1080 meters from the APRD (Army Pulse Radiation Division) critical facility
[AD-A141791] 19 p3124 N84-29848

Rapid electrolyte exchange procedures for 22 AH nickel-cadmium celgard cells
[AD-A142004] 20 p3177 N84-30178

DEFENCE RESEARCH ESTABLISHMENT PACIFIC, VICTORIA (BRITISH COLUMBIA).

Application of FRACTOMAT/KRAK GAGES to crack growth measurements in structural components
[AD-A130945] 01 p0095 N84-10620

Moisture and temperature effects on the mixed-mode delamination fracture of unidirectional graphite/epoxy
[DREP-TM-83-22] 12 p1789 N84-21685

Corrosion research in support of Canadian forces aircraft 16 p2435 N84-25622

DEFENCE RESEARCH ESTABLISHMENT SUFFIELD, RALSTON (ALBERTA).

Comparative testing of polymer solutions. Part 1: Preliminary evaluation of a rheometrics fluids rheometer
[AD-A130886] 01 p0050 N84-10322

Measurements of elongational viscometry using a fiber spinning technique. Part 1: Modifications to the Sangamo Schlumberger elongational viscometer model E4
[AD-A140002] 15 p2333 N84-25010

DEFENCE RESEARCH ESTABLISHMENT VALCARTIER (QUEBEC).

Spatial filtering for enhancing point targets in images from a space-based mosaic IR detector
[AD-A132248] 04 p0521 N84-13425

A frequency stabilization and trigger control unit for hybrid TEA-CO2 lasers
[AD-A132247] 04 p0540 N84-13552

Aerosol size distribution using the extinction-sedimentation inversion technique
[AD-A132158] 04 p0563 N84-13711

Determination of particle-size distribution by measuring the transmission of an aerosol in sedimentation
[AD-A133288] 06 p0918 N84-15962

Chemical generation and deactivation of oxygen singlet delta
[AD-A135392] 08 p1124 N84-17308

DEFENCE RESEARCH INFORMATION CENTRE, ORPINGTON (ENGLAND).

Non-destructive testing of non-metallic materials using microwaves
[DRIC-T-6974] 03 p0385 N84-12508

Welding deformations and residual stresses due to circumferential welding of cylindrical shells and hemispherical end plates
[DRIC-T-6968] 04 p0547 N84-13602

Investigations on the reproducibility of the results of drop weight tests by the method of W. S. Pellini
[BLL-DRIC-T-6970-(3623.66)] 06 p0846 N84-15517

Welding deformations and residual stresses due to circumferential welding of cylindrical shells and hemispherical end plates
[BLL-DRIC-T-6968-(3623.66)] 06 p0851 N84-15549

The mechanoluminescence of fibreglass tubes in the plane stressed state
[DRIC-T-7014] 09 p1328 N84-18673

Ergo-ophthalmological aspects of the VDU: Visual strain and the blue light lesion
[DRIC-T-6921] 09 p1361 N84-18893

The application of management techniques to defence and other information services: The British approach 11 p1751 N84-21433

The neutron induced embrittlement of reactor pressure vessel steels and ferritic alloys
[AD-B080746] 15 p2295 N84-24770

Methods of full and accurate rheological characterisation
[AD-B080747] 15 p2300 N84-24803

Digital video transmission with reduced frame repetition rate and movement-adapted frame-to-frame interpolation
[AD-B075822] 15 p2318 N84-24915

Accelerated testing
[DRIC-T-7073] 15 p2346 N84-25076

Mathematical model of power station blocks with forced circulation steam generation
[DRIC-T-7008] 15 p2389 N84-25332

The measurement of acoustic emission parameters during hydraulic loading of the Novovorenezh AES reactor vessel VVER-1000
[DRIC-T-6998] 15 p2403 N84-25421

Metal-semiconductor phase transition and its application
[BLL-DRIC-T-7149-(3623.66)] 19 p3109 N84-29757

DEFENSE ADVANCED RESEARCH PROJECTS AGENCY, ARLINGTON, VA.
Future directions in optical processing
12 p1904 N84-22403
Jam-resistant tactical communications
13 p1976 N84-22828
Spread spectrum networks 13 p1977 N84-22831
Strategic computing: New-generation computing technology: A strategic plan for its development and application to critical problems in defense
[AD-A141982] 20 p3266 N84-30721
DEFENSE COMMUNICATIONS ENGINEERING CENTER, RESTON, VA.
System integration and interface transition issues
[AD-A134583] 07 p0994 N84-16442
Engineering aids for the design of survivable defense communications transmission capability
[AD-A140755] 17 p2653 N84-26970
DEFENSE CONTRACT ADMINISTRATION SERVICES, BOSTON, MASS.
Does the Prompt Payment Act insure timely contract payment?
[AD-P002778] 13 p2054 N84-23325
Export trade: Big business for the small entrepreneur
[AD-P002811] 13 p2059 N84-23357
DEFENSE CONTRACT ADMINISTRATION SERVICES, CLEVELAND, OHIO.
Quality at the crossroads
[AD-P002818] 13 p2060 N84-23363
DEFENSE ELECTRONICS SUPPLY CENTER, DAYTON, OHIO.
Minutes of FSC 5935, Connector Standardization Planning Meeting
[AD-A130681] 01 p0072 N84-10467
Minutes of the Fiber Optics Standardization Planning Meeting
[AD-A142152] 19 p3104 N84-29722
DEFENSE FUEL SUPPLY CENTER, ALEXANDRIA, VA.
Tactical buying decisions for strategic petroleum reserve spot procurements: The tunnel theory
[AD-P002812] 13 p2060 N84-23358
DEFENSE INTELLIGENCE AGENCY, WASHINGTON, D.C.
Bibliography of Soviet Laser Developments, number 60, July August 1982
[AD-A133932] 05 p0759 N84-14978
Bibliography of Soviet Laser Developments, no. 62, November - December 1982
[AD-A137854] 11 p1663 N84-20851
Bibliography of Soviet Laser Developments, no. 61, September - October 1982
[AD-A137867] 11 p1663 N84-20852
Bibliography of Soviet Laser Developments, Number 63, January-February 1983
[AD-A138742] 13 p1995 N84-22948
Bibliography of Soviet laser dovelopments, number 64, March -April 1983
[AD-A141906] 20 p3193 N84-30275
DEFENSE LOGISTICS AGENCY, ALEXANDRIA, VA.
Consolidation of DOD bidder's mailing list application
[AD-P002752] 13 p2050 N84-23299
Incentives for product quality need contract, cost, production and field co-operation
[AD-P002819] 13 p2061 N84-23364
Employment changes resulting from the award of contracts in labor surplus areas
[AD-P002834] 13 p2063 N84-23379
DEFENSE MAPPING AGENCY, WASHINGTON, D.C.
Status of auto carto at the Defense Mapping Agency
[AD-A131235] 01 p0101 N84-10653
The future in terrain elevation data processing at the Defense Mapping Agency
[AD-A133483] 06 p0866 N84-15641
Development of a digital mapping program at the Defense Mapping Agency
[AD-A140329] 16 p2511 N84-26113
The electronic chart
[AD-A140565] 17 p2604 N84-26686
Error analysis for marine geodetic control using the global positioning system
[AD-A140566] 17 p2605 N84-26687
Applications of the GPS (Global Positioning System) Geodetic Receiver System
[AD-A140567] 17 p2605 N84-26688
DEFENSE MAPPING AGENCY AEROSPACE CENTER, ST. LOUIS, MO.
Mapping, charting and geodesy at the Defense Mapping Agency
[AD-A130344] 01 p0100 N84-10650
DMA (Defense Mapping Agency): The digital revolution
[AD-A142787] 21 p3431 N84-31767
DEFENSE MAPPING AGENCY HYDROGRAPHIC AND TOPOGRAPHIC CENTER, WASHINGTON, D.C.
Hydrographic survey requirements system (HYSUR)
[AD-A131115] 02 p0240 N84-11573
African Doppler surveys (ADOS)
[AD-A131135] 02 p0240 N84-11574
Automated standard nautical chart production
[AD-A132249] 04 p0553 N84-13644
Navstar Global Positioning System overview
[AD-A140793] 17 p2605 N84-26691
African Doppler Surveys (ADOS)
[AD-A142738] 21 p3430 N84-31764
DMA (Defense Mapping Agency) policy for digital MC and G (Mapping, Charting, and Geodesy) support of advanced systems
[AD-A142746] 21 p3430 N84-31765
The derivation of the mapping equations and distortion formulae for the satellite tracking map projections
[AD-A143683] 23 p3784 N84-33998
DEFENSE NUCLEAR AGENCY, WASHINGTON, D.C.
Summary of annual environmental reports for CY 1981: Department of Energy nuclear sites
[DOE/EP-0038/1] 06 p0875 N84-15692
The Defense Nuclear Agency intermediate dose program: An overview (effects of total-body irradiation on the performance of personnel in Army combat crews)
[AD-P003253] 18 p2905 N84-28420
Geodesy for the layman
[AD-A142764] 21 p3431 N84-31766
DEFENSE SYSTEMS MANAGEMENT SCHOOL, FORT BELVOIR, VA.
Management of risk and uncertainty in systems acquisition: Proceedings of the 1983 Defense Risk and Uncertainty Workshop
[AD-A136230] 09 p1397 N84-19124
A summary of Proceedings of the Department of Defense Robotics Applications Workshop, volume 1 (exclusive of presentations)
[AD-A137941] 11 p1711 N84-21157
Managing for success in defense systems acquisition
[AD-P002789] 13 p2056 N84-23336
Defense systems acquisition review process: A history and evaluation
[AD-P002822] 13 p2061 N84-23367
Program Manager's Support System (PMSS): An update
[AD-P002825] 13 p2062 N84-23370
Program Manager: The Journal of the Defense Systems Management College, volume 13, no. 2, March - April 1984
[AD-A141770] 19 p3114 N84-29789
DEFENSE TECHNICAL INFORMATION CENTER, ALEXANDRIA, VA.
Source header list, supplement 1
[AD-A131800] 03 p0459 N84-13024
Defense technical information center cataloging guidelines
[AD-A138500] 12 p1919 N84-22503
Strengthening small business participation in Department of Defense extramural research and development
[AD-P002832] 13 p2063 N84-23377
Format requirements for scientific and technical reports prepared by or for the Department of Defense
[AD-A141758] 19 p3116 N84-29799
Government acronyms and alphabetic organizational designations used in DTIC (Defense Technical Information Center)
[AD-A142700] 20 p3314 N84-31049
Defense Technical Information Center referral data bank directory
[AD-A138400] 20 p3315 N84-31051
Source hierarchy list. Volume 1: A through H
[AD-A143500] 22 p3674 N84-33291
Source hierarchy list. Volume 2: I through Z
[AD-A143501] 22 p3674 N84-33292
Source header list, supplement 2
[AD-A143800] 23 p3835 N84-34325
DTIC 2000: A corporate plan for the future
[AD-A143900] 23 p3835 N84-34327
DEFENSE TECHNICAL INFORMATION CENTER, SAN DIEGO, CALIF.
Prototype development of an information-sharing and decision support system for the manpower personnel and training community
[AD-P003310] 18 p2909 N84-28451
DELAWARE UNIV., NEWARK.
Asymptotic methods in reliability theory: A review
[AD-A130163] 01 p0092 N84-10600
Robust ABLUE's (Asymptotically Best Linear Unbiased Estimators) for location and scale parameter estimation
[AD-A130752] 01 p0132 N84-10867
Evaluation of spatial, radiometric and spectral thematic mapper performance for coastal studies
[E84-10018] 02 p0237 N84-11555
Design of a system that understands informal specifications
[AD-A131479] 02 p0273 N84-11785
Mapping between semantic representations using Horn clauses
[AD-A131531] 02 p0273 N84-11787
Prerequisites for deriving formal specifications from natural language requirements
[AD-A131722] 03 p0424 N84-12771
Propagation of weakly-nonlinear surface water waves in regions with varying depth and current
[AD-A132593] 05 p0711 N84-14657
Strength theories of continuous and discontinuous fiber composites 06 p0797 N84-15195
A climatically-derived global soil moisture data set for use in the GLAS atmospheric circulation model seasonal cycle experiment
[NASA-CR-173289] 08 p1186 N84-17729
Influence of constituent properties and geometric form on behavior of woven fabric reinforced composites
[NASA-CR-173326] 09 p1275 N84-18326
Assessment of acid rain on leaching of elements from Delaware soils into groundwater
[PB84-120849] 09 p1343 N84-18770
Evaluation of spatial, radiometric and spectral Thematic Mapper performance for coastal studies
[E84-10093] 10 p1522 N84-19964
An investigation of some basic properties of hybrid composite materials
[AD-A138040] 12 p1789 N84-21669
On 'Before' and 'After' cost comparisons
[AD-P002799] 13 p2058 N84-23345
Evaluation of spatial, radiometric and spectral Thematic Mapper performance for coastal studies
[E84-10118] 14 p2167 N84-23978
Abstracts of the 20th Annual Meeting: Society of Engineering Science, Incorporated
[AD-A138155] 15 p2306 N84-24833
A probabilistic theory for the strength of discontinuous fibre composites 15 p2306 N84-24848
Impact and fatigue of graphite/epoxy laminates
15 p2310 N84-24862
Observations on the fracture of fiberous compoeites
15 p2311 N84-24865
Dynamic stability of high order linear systems
15 p2312 N84-24874
Stresses in and around double confocal spheroids embedded in infinite media 15 p2314 N84-24883
Transport properties of amorphous silicon-germanium alloy films. Volume 2: Appendices
[DE84-006879] 15 p2414 N84-25495
Transport properties of amorphous silicon-germanium alloy films. Volume 1: Technical summary
[DE84-006878] 15 p2414 N84-25497
Mass transfer and thermodynamic studies of evaporative freezing of water
[PB84-153501] 17 p2620 N84-26769
Evaluation of spatial, radiometric and spectral Thematic Mapper performance for coastal studies
[E84-10159] 17 p2709 N84-27251
On the scattering of electromagnetic waves by perfectly conducting bodies moving in vacuum. Part 2: Scattering by stationary perfect conductors
[AD-A141548] 19 p3005 N84-29047
On the scattering of electromagnetic waves by perfectly conducting bodies moving in vacuum. Part 5: A description of motion and deformation retardation of sets and functions
[AD-A141549] 19 p3005 N84-29048
On the scattering of electromagnetic waves by perfectly conducting bodies moving in vacuum. Part 3: Representations of sufficiently smooth solutions of Maxwell's equation and of the scattering program
[AD-A141584] 19 p3005 N84-29050
On the scattering of electromagnetic waves by perfectly conducting bodies moving in vacuum. Part 1: Formulation and reformulation of the scattering problem
[AD-A141746] 19 p3006 N84-29051
On the scattering of electromagnetic waves by perfectly conducting bodies moving in vacuum. Part 4: Kinematic single layer potentials
[AD-A141747] 19 p3006 N84-29052
On the scattering of electromagnetic waves by perfectly conducting bodies moving in vacuum. Part 6: Manifolds in Euclidean spaces, regularity properties of domains
[AD-A141748] 19 p3006 N84-29053
Investigation of the crystallization kinetics of an incongruent melting salt hydrate under metastable conditions
[DE84-008666] 19 p3112 N84-29771
Aboveground biomass estimation in a tidal brackish marsh using simulated Thematic Mapper spectral data
20 p3214 N84-30419
Parametric and nonparametric analysis of LANDSAT TM and MSS imagery for detecting submerged plant communities 20 p3215 N84-30424
Propagating long waves on oceanic density fronts: An analytic model
[AD-A141915] 20 p3250 N84-30628

Inverse scattering problem
[AD-A142634] 20 p3291 N84-30894
Chemical vapor deposition of amorphous semiconductor films
[DE84-004489] 20 p3311 N84-31026
Statistics of fracture of composite materials under multiaxial loading 22 p3544 N84-32433
Numerical techniques for the prediction of flow induced orientation 22 p3591 N84-32743
Natural convection in porous media: An experimental and numerical study for vertical annular and rectangular enclosures 22 p3592 N84-32744

DELCO SYSTEMS OPERATIONS, MILWAUKEE, WIS.
Delco performance management system flight test evaluation 17 p2587 N84-26579

DELFT HYDRAULICS LAB. (NETHERLANDS).
West breakwater, Sines (Portugal) 08 p1194 N84-17785
West breakwater-Sines (Portugal). Overview of rehabilitation and synthesis of project 08 p1194 N84-17786
West breakwater-Sines (Portugal): Wave climatology 08 p1194 N84-17787
West breakwater-Sines (Portugal): Study of armor stability 08 p1194 N84-17788
West breakwater-Sines (Portugal): New aspects of armor units 08 p1195 N84-17789
Optmization of breakwater lengths in relation to wave penetration
[PUBL-312] 15 p2360 N84-25160
Practice; criteria; provisions; mathematical descriptions: Examples
[PUBL-310] 16 p2487 N84-25951

DELHI UNIV. (INDIA).
Studies in environmental geomorphology of Dudhatoli Ridge Garhwal, Himalay, India 23 p3770 N84-33902

DELTA INFORMATION SYSTEMS, INC., JENKINTOWN, PA.
Study of potential standardization of video teleconferencing systems. Volume 2: Appendices
[AD-A132081] 04 p0522 N84-13431
Study of potential standardization of video teleconferencing systems, volume 1
[AD-A132080] 04 p0522 N84-13432
Users manual for NCS (National Communications System) facsimile test document tapes. Addendum
[AD-A133830] 05 p0684 N84-14498
Study of potential standardization of digital freeze frame video codecs
[AD-A141278] 18 p2829 N84-27962

DELTATEMP ENERGY CORP., FORT WAYNE, IND.
On solar thermal electric power capacity sizing 18 p2872 N84-28236

DENVER RESEARCH INST., COLO.
Artificial intelligence: An analysis of potential applications to training, performance measurement, and job performance aiding
[AD-A133592] 06 p0900 N84-15839
Individualizing with Computer-Assisted Instruction (CAI): Enhancing student motivation through computer-controlled audio
[AD-P003314] 18 p2909 N84-28453
Training and performance support system: A new dimension in individualized instruction
[AD-P003315] 18 p2910 N84-28454
Investigation of shock activated sintering and shock wave consolidation of selected powder materials
[DE84-013074] 21 p3371 N84-31391
On-line task analyses in maintenance simulation
[AD-P003452] 21 p3509 N84-32229

DENVER UNIV., COLO.
Manufacturing methods and technology (MANTECH) program. Quality control and nondestructive evaluation techniques for composites. Part 6: Acoustic emission: A state-of-the-art review
[AD-A132621] 05 p0645 N84-14245

DEPARTMENT OF AGRICULTURE, WASHINGTON, D.C.
Classification and area estimation of land covers in Kansas using ground-gathered and LANDSAT digital data
[E84-10068] 06 p0865 N84-15637
A first evaluation of LANDSAT TM data to monitor suspended sediments in lakes 20 p3215 N84-30425

DEPARTMENT OF COMMUNICATIONS, OTTAWA (ONTARIO).
Canadian Attitude Sensing Experimental Package (CASEP) 08 p1110 N84-17223
Flight test of a synthetic aperture radar antenna using STEP 08 p1113 N84-17237

DEPARTMENT OF DEFENCE, CANBERRA (AUSTRALIA).
Linearised optimal control and application to a gliding projectile
[AD-A135605] 09 p1271 N84-18305

DEPARTMENT OF DEFENSE, FORT MEADE, MD.
Department of defense trusted computer system evaluation criteria
[AD-A141304] 18 p2917 N84-28498

DEPARTMENT OF DEFENSE, WASHINGTON, D. C.
Bottom Line Academia Conference
[AD-A131043] 01 p0159 N84-11048
Mx, A mix-valued algebra
[AD-P002371] 14 p2195 N84-24162
A sociotechnical communications model for command and control
[AD-P003238] 18 p2902 N84-28405

DEPARTMENT OF ENERGY, ALBUQUERQUE, N. MEX.
Status of research in progress at the Inhalation Toxicology Research Institute
[DE83-012610] 06 p0875 N84-15694

DEPARTMENT OF ENERGY, BARTLESVILLE, OKLA.
Vehicle-emission characteristics using mechanically emulsified alcohol/diesel fuels
[DE83-016012] 03 p0406 N84-12656
Proceedings of the 1982 Forum on Subsidence Due to Fluid Withdrawals
[DE84-001028] 05 p0704 N84-14618
Emissions and efficiency of agricultural diesels using low-proof ethanol as supplement fuel
[DE84-003931] 09 p1325 N84-18659
Review of storage stability characteristics of hydrocarbon fuels, 1952-1982
[DE84-006557] 12 p1803 N84-21754

DEPARTMENT OF ENERGY, LAS VEGAS, NEV.
Long-term hydrologic monitoring program. Rulison Event Site, Grand Valley, Colorado
[DE84-008210] 15 p2368 N84-25212

DEPARTMENT OF ENERGY, NEW YORK.
Production of Krypton-81 and Krypton-85 by cosmic rays
[DE84-004439] 09 p1418 N84-19276
Application of semi-empirical Ge(Li) detector calibration technique for large volume samples
[DE83-012801] 16 p2494 N84-26004

DEPARTMENT OF ENERGY, OAK RIDGE, TENN.
Management of aerospace contract documentation by industry and government
[DE84-900451] 11 p1746 N84-21396
Management of aerospace contract documentation by industry and government 11 p1752 N84-21434
Refractory alloy technology for space nuclear power applications
[DE84-001745] 21 p3497 N84-32166

DEPARTMENT OF ENERGY, RICHLAND, WASH.
Nuclear reactor: On schedule and under cost
[AD-P002790] 13 p2056 N84-23337

DEPARTMENT OF ENERGY, UPTON, N.Y.
Summaries of physical research in the geosciences
[DE83-017885] 04 p0550 N84-13624

DEPARTMENT OF ENERGY, WASHINGTON, D. C.
Report of the research assistance task force on beta-alumina for sodium-sulfur batteries
[DE83-013616] 01 p0074 N84-10486
Association for Energy Systems, Operations and Programming (AESOP) Topical Conference summary of proceedings
[CONF-820986-SUMM] 01 p0101 N84-10659
Fusion technology development plan
[DE83-012954] 01 p0150 N84-10985
Advanced fusion concepts project summaries, FY 1983
[DE83-013973] 02 p0296 N84-11940
New facilities for the US high-energy physics program
[DE83-016589] 03 p0436 N84-12876
Standard NIM digital bus (NIM/GPIE)
[DE83-017865] 04 p0522 N84-13435
Ecological Research Division marine research program
[DE83-017880] 04 p0560 N84-13691
Energy Materials Coordinating Committee (EMACC). Contractors Meeting on Problems and Opportunities in Structural Ceramics
[CONF-8209111] 06 p0809 N84-15266
Report to Congress on the Automotive Technology Development Program
[DE84-002148] 07 p1012 N84-16566
Principal facts for gravity stations in the Nevada portion of the Kingman 1 degree by 2 degree quadrangle
[PB84-103084] 08 p1189 N84-17749
Report to Congress on the Automotive Technology Development Program
[DE84-004097] 09 p1325 N84-18660
DOE explosives safety manual: Revision 1
[DE84-004295] 11 p1639 N84-20714
Vegetation response to carbon dioxide research plan
[DE84-006219] 11 p1676 N84-20934
CO/sub 2 climate research plan
[DE84-005461] 11 p1688 N84-21008
Critical and strategic materials: Proceedings of the Laboratory Study Group Meeting
[CONF-830474] 12 p1783 N84-21631
Proceedings of the 20th Automotive Technology Development Contractors' Coordination Meeting
[NASA-CR-173412] 12 p1822 N84-21877
Carbon cycle research plan
[DE84-006221] 12 p1861 N84-22124
Biological effects from electric fields associated with high voltage transmission lines
[DE84-005496] 12 p1864 N84-22143
Proceedings of the DOE Planning Workshop on RF Theory and Computations
[DE84-006670] 12 p1910 N84-22442
Report to Congress on federal energy conservation programs, fiscal year 1981
[DOE/CE-0040] 12 p1917 N84-22489
Federal government energy management, fiscal year 1981
[DOE/CE-0043] 12 p1917 N84-22490
Magnetic fusion energy research and development
[DE84-007089] 13 p2045 N84-23270
Standard for fire protection of DOE electronic computer/data processing systems
[DE84-007194] 14 p2135 N84-23793
Activities of the Hydrogen Energy Coordinating Committee: Summary of DOE hydrogen programs for FY 1983
[DE84-007016] 14 p2172 N84-24011
Electric and Hybrid Vehicles Program. Report to Congress for fiscal year 1983
[DE84-007792] 14 p2249 N84-24511
Report to Congress on the Small Business Program of the Department of Energy
[DE84-009107] 15 p2420 N84-25534
Energy technology characterizations handbook: Environmental pollution and control factors, third edition
[DOE/EP-0093] 16 p2511 N84-26117
Systems integration of photovoltaic and passive solar 16 p2513 N84-26129
Performance monitoring highlights of BERD programs 16 p2516 N84-26146
The carbon dioxide research plan, a summary
[DOE/ER-0178] 16 p2528 N84-26228
Materials sciences programs, fiscal year 1983
[DOE/ER-0143/1] 19 p2983 N84-28905
Electropositive bivalent metallic ion unsaturated polyester complexed polymer concrete
[DE84-011080] 20 p3146 N84-29979
Integral low-energy thermite igniter
[DE84-011082] 20 p3150 N84-29999
Ultraviolet light absorbers having 2 different chromophors in the same molecule
[DE84-011279] 20 p3150 N84-30000
Tantalum-copper alloy and method for making
[DE84-011081] 20 p3155 N84-30037
Ductile aluminide alloys for high temperature applications
[DE84-011037] 20 p3156 N84-30038
Improved oxidation sulfidation resistance of Fe-Cr-Ni alloys
[DE84-010066] 20 p3156 N84-30039
Hard metal composition
[DE84-011034] 20 p3156 N84-30040
Synthesis of refractory materials
[DE84-011045] 20 p3156 N84-30041
Method of enhancing selective isotope desorption from metals
[DE84-011031] 20 p3156 N84-30044
Ceramic to metal attachment system
[DE84-011095] 20 p3163 N84-30085
Graphite-ceramic RF Faraday-thermal shield and plasma limiter
[DE84-010960] 20 p3163 N84-30086
Method and apparatus for producing high purity silicon
[DE84-011087] 20 p3163 N84-30090
Electron emitting filaments for electron discharge devices
[DE84-011098] 20 p3180 N84-30201
Rigid indented cylindrical cathode for X-ray tube
[DE84-011093] 20 p3180 N84-30204
Steam reforming of fuel to hydrogen in fuel cell
[DE84-011115] 20 p3181 N84-30205
Manipulator having thermally conductive rotary joint for transferring heat from a test specimen
[DE84-010958] 20 p3186 N84-30242
Shock wave absorber having a deformable liner
[DE84-011308] 20 p3186 N84-30243
Helical screw viscometer
[DE84-011111] 20 p3189 N84-30261
Void-particulate director
[DE84-011300] 20 p3190 N84-30262
Improved graphite furnace atomizer
[DE84-011091] 20 p3190 N84-30263

Rotational viscometer for high-pressure, high-temperature fluids
[DE84-011094] 20 p3190 N84-30264

Improved gaseous leak detector
[DE84-011295] 20 p3190 N84-30265

High resolution, high rate X-ray spectrometer
[DE84-011116] 20 p3190 N84-30266

Vapor spill pipe monitor
[DE84-011103] 20 p3190 N84-30267

Inductively stabilized, long pulse duration transverse discharge apparatus
[DE84-011301] 20 p3193 N84-30281

Reflex ring laser amplifier system
[DE84-010874] 20 p3193 N84-30282

Ceramic-glass-metal seal by microwave heating
[DE84-011283] 20 p3196 N84-30295

Dual rotating shaft seal apparatus
[DE84-011101] 20 p3197 N84-30307

Electric arc saw apparatus
[DE84-006153] 20 p3198 N84-30308

Shock wave absorber having apertured plate
[DE84-011271] 20 p3203 N84-30345

Method and apparatus for measuring stress
[DE84-011035] 20 p3203 N84-30347

Proceedings of the DOE Physical and Chemical Energy Storage Annual Contractors' Review Meeting
[DE83-017536] 20 p3236 N84-30540

Is the wind a practical source of energy for you?
[DE84-010938] 20 p3236 N84-30541

Photovoltaics: Electricity from Sunlight, five-year research plan, 1984-1988
[DE84-010679] 20 p3236 N84-30544

Dual aperture dipole magnet with second harmonic component
[DE84-011305] 20 p3285 N84-30856

Biasing and fast degaussing circuit for magnetic materials
[DE84-011281] 20 p3285 N84-30857

Thermoacoustic couple
[DE84-011296] 20 p3291 N84-30895

X-ray beam finder
[DE84-011100] 20 p3294 N84-30916

Method and source for producing a high concentration of positively charged molecular hydrogen or deuterium ions
[DE84-011030] 20 p3295 N84-30918

Transverse field focused system
[DE84-011070] 20 p3298 N84-30942

Omnidirectional fiber optic tiltmeter
[DE84-011109] 20 p3300 N84-30959

Steady state compact toroidal plasma production
[DE84-011090] 20 p3303 N84-30977

Silicon crystal growing by oscillating crucible technique
[DE84-011038] 20 p3309 N84-31019

Method of making fine-grained triaminotrinitrobenzene
[DE84-012754] 21 p3374 N84-31413

Digital rotation measurement unit
[DE84-010872] 21 p3392 N84-31528

Quantum well multijunction photovoltaic cell
[DE84-011113] 21 p3393 N84-31529

Improved photovoltaic cells and electrodes
[DE84-011105] 21 p3393 N84-31530

Improved superconducting magnet wire
[DE84-011233] 21 p3393 N84-31531

Front lighted optical tooling method and apparatus
[DE84-011108] 21 p3406 N84-31602

Method and apparatus for measuring response time
[DE84-011042] 21 p3406 N84-31603

Plasma discharge elemental detector for a mass spectrometer
[DE84-011078] 21 p3406 N84-31604

Laser window with annular grooves for thermal isolation
[DE84-011114] 21 p3410 N84-31625

Jet spoiler arrangement for wind turbine
[DE84-011303] 21 p3434 N84-31787

Cost and schedule control systems criteria for contract performance measurement, information pamphlet
[DE84-012576] 21 p3516 N54-32269

Operation of electric vehicles in the US Department of Energy test program
[DE84-011703] 21 p3521 N84-32308

Method for forming fibrous silicon carbide insulating material
[DE84-014658] 22 p3545 N84-32442

Electronically conductive ceramics for high temperature oxidizing environments
[DE84-014506] 22 p3561 N84-32549

Method and apparatus for making superconductive magnet coils
[DE84-014510] 22 p3590 N84-32737

High power microwave generator
[DE84-014230] 22 p3590 N84-32738

Electrode-active material for electrochemical batteries and method of preparation
[DE84-014508] 22 p3590 N84-32739

Magnetic fluorescent lamp
[DE84-014231] 22 p3590 N84-32740

Laser utilizing a gaseous lasing medium and method for operating the same
[DE84-014500] 22 p3602 N84-32819

Fuel injection device and method
[DE84-014320] 22 p3606 N84-32846

Autogenerator of beams of charged particles
[DE84-014242] 22 p3654 N84-33163

Pore-forming fillers for molten carbonate matrices
[DE84-014509] 23 p3715 N84-33551

Clad cast steel strip
[DE84-014245] 23 p3719 N84-33574

Ductile aluminide alloys for high temperature applications
[DE84-014317] 23 p3719 N84-33575

Method of gas purification and system therefore
[DE84-014322] 23 p3720 N84-33582

High temperature adhesive silicone foam composition, foam generating system and method of generating foam
[DE84-014315] 23 p3725 N84-33605

Fabrication of metallic glass structures
[DE84-014499] 23 p3725 N84-33606

Soluble polyacetylenic and polyaromatic polymers and method of making the same
[DE84-014314] 23 p3725 N84-33607

Summaries of FY 1983 engineering research
[DOE/ER-0158/1] 23 p3727 N84-33614

System for maintaining the alignment of mandrels in filament winding operations
[DE84-014660] 23 p3727 N84-33617

Low frequency ac waveform generator
[DE84-014310] 23 p3743 N84-33726

Method of fabricating a monolithic core for a solid oxide fuel cell
[DE84-014665] 23 p3743 N84-33727

Solid oxide fuel cell having monolithic core
[DE84-014659] 23 p3743 N84-33728

Fuel cell stack with internal manifolds for reactant gases
[DE84-014662] 23 p3743 N84-33729

Solid oxide fuel cell having compound cross flow gas patterns
[DE84-014666] 23 p3743 N84-33730

Integral manifolding structure for fuel cell core having parallel gas flow
[DE84-014664] 23 p3744 N84-33731

Electro-optical switching and memory display device
[DE84-014227] 23 p3744 N84-33732

Piezoelectric shear wave resonator and method of making same
[DE84-014528] 23 p3751 N84-33780

Monochromator for continuous spectrum X-ray radiation
[DE84-014239] 23 p3751 N84-33781

Thermoluminescence dosimeter
[DE84-014247] 23 p3751 N84-33782

Sidetone generator flowmeter
[DE84-014246] 23 p3752 N84-33783

Preparation of certain m-aminophenols and the use thereof for preparation of laser dyes
[DE84-014232] 23 p3755 N84-33803

Stable mirror mount
[DE84-014250] 23 p3755 N84-33804

Flow metering valve
[DE84-014249] 23 p3757 N84-33815

Flexural support member having a high ratio of lateral-to-axial stiffness
[DE84-011104] 23 p3761 N84-33839

Method and apparatus for measuring shear modulus and viscosity of a monomolecular film
[DE84-014502] 23 p3761 N84-33841

Three chamber negative ion source
[DE84-014505] 23 p3823 N84-34243

Ion source with improved primary arc collimation
[DE84-014359] 23 p3823 N84-34244

Process for forming pure silver ohmic contacts to N- and P-type gallium arsenide materials
[DE84-014515] 23 p3831 N84-34298

Liquid suspensions of reversible metal hybrides
[DE84-014358] 24 p3881 N84-34586

Method and apparatus for enhancing microchannel plate data
[DE84-014498] 24 p3899 N84-34690

A technique to approximate complex computer models: An approximation of the Teisberg Model
[AD-P003855] 24 p3940 N84-34940

Summaries of the FY 1983 applied mathematical sciences research program
[DOE/ER-0157/1] 24 p3950 N84-35010

DEPARTMENT OF NATURAL RESOURCES, OLYMPIA, WASH.

Summary of geothermal exploration activity in the State of Washington from 1978 - 1983
[DE84-014863] 23 p3784 N84-33999

DEPARTMENT OF THE AIR FORCE, WASHINGTON, D.C.

Peaceful use and self defense in outer space
[AD-P002155] 14 p2138 N84-23820

Low temperature rate controller
[AD-D011029] 19 p2982 N84-28897

High power high voltage linear amplifier apparatus
[AD-D011028] 19 p3018 N84-29132

Narrow deviation voltage controlled crystal oscillator
[AD-D011033] 19 p3018 N84-29133

Total temperature probe buffer amplifier
[AD-D011037] 19 p3027 N84-29197

Accommodative amplitude and speed measuring instrument
[AD-D011032] 19 p3071 N84-29484

Radiation upset threshold detector apparatus
[AD-D011030] 19 p3111 N84-29769

Quartz growth on x-seeds
[AD-D011031] 19 p3112 N84-29770

Cost/schedule management for software development
[AD-P003591] 21 p3341 N84-31196

Software configuration management in a project environment
[AD-P003592] 21 p3341 N84-31197

Method of making compartmented, filament wound, one-piece aircraft fuel tanks
[AD-D011144] 22 p3534 N84-32376

Axisymmetric thrust augmenting ejector with discrete primary air slot nozzles
[AD-D011129] 22 p3536 N84-32386

Thrust Reverser/Exhaust nozzle assembly for a gas turbine engine
[AD-D011101] 22 p3537 N84-32392

Flexible, resilient anti-contamination baffle
[AD-D011111] 22 p3542 N84-32421

Low cost thermal protection system processing
[AD-D011142] 22 p3544 N84-32434

Method for the particle size independent spectrometric determination of metal particles in lubricating oils and hydraulic fluids
[AD-D011121] 22 p3545 N84-32445

Method to reveal microstructures in single phase alloys
[AD-D011094] 22 p3555 N84-32512

Perfluoroalkylether substituted phenyl phosphines
[AD-D011122] 22 p3558 N84-32529

Protected ethynylated phenols
[AD-D011096] 22 p3560 N84-32544

Simulation of an electronic countermeasure technique
[AD-D011143] 22 p3572 N84-32619

Simultaneous detection of time coincident signals in an adaptive Doppler tracker
[AD-D011092] 22 p3577 N84-32659

Phase shift keying apparatus
[AD-D011119] 22 p3577 N84-32660

Universal control grid modulator
[AD-D011108] 22 p3580 N84-32672

Programmable signal processing device
[AD-D011109] 22 p3580 N84-32673

Machined two-piece microwave waveguide
[AD-D011088] 22 p3587 N84-32715

Compact broadband rectangular to coaxial waveguide junction
[AD-D011091] 22 p3587 N84-32716

Soldering method for cable connectors
[AD-D011103] 22 p3587 N84-32718

Backfire bifilar helix antenna
[AD-D011118] 22 p3587 N84-32719

Three-wire static strain gage apparatus
[AD-D011130] 22 p3596 N84-32776

Temperature controlled gyro
[AD-D011138] 22 p3596 N84-32777

Variable gain oven temperature control circuit
[AD-D011141] 22 p3597 N84-32778

Eye safe laser transmitter
[AD-D011145] 22 p3597 N84-32779

Portable visual function tester
[AD-D011105] 22 p3599 N84-32795

Low heat loss laser combustion chamber
[AD-D011107] 22 p3600 N84-32799

Transverse flow CW atomic iodine laser system
[AD-D011098] 22 p3601 N84-32810

Laser beam duct pressure controller system
[AD-D011102] 22 p3601 N84-32811

Beam recombination via cylindrical mirror
[AD-D011104] 22 p3601 N84-32812

CW HF R-branch laser
[AD-D011120] 22 p3601 N84-32813

Shaft positioning device
[AD-D011087] 22 p3605 N84-32836

Deactivation of thionyl chloride cells
[AD-D011113] 22 p3615 N84-32908

Solid state tetrachloroaluminate storage battery having a transition metal chloride cathode
[AD-D011133] 22 p3618 N84-32924

Programmable arithmetic logic unit
[AD-D011128] 22 p3637 N84-33055
Real-time optical filtering system with spatial and temporal enhancement of visual information
[AD-D011106] 22 p3656 N84-33172
Varying bandpass of optical spatial filter by rotating mirrors having changing reflectivity
[AD-D011114] 22 p3656 N84-33173
Optical power source control system
[AD-D011124] 22 p3656 N84-33175
Optical distortion analyzer system
[AD-D011127] 22 p3656 N84-33176
Replication of high power laser mirrors
[AD-D011140] 22 p3656 N84-33177
Phase-only optical filter for use in an optical correlation system
[AD-D011093] 22 p3657 N84-33187
Method of measuring optical properties of a transparency
[AD-D011117] 22 p3658 N84-33188
Electroding of multi-layered epitaxial structures
[AD-D011137] 22 p3661 N84-33209
Process for the epitaxial deposition of III-V compounds utilizing a binary alloy as the metallic source
[AD-D011097] 22 p3664 N84-33229
Direct lift command blending
[AD-D011178] 23 p3696 N84-33420
Shock absorbing missile launch pad
[AD-D011173] 23 p3698 N84-33436
Damaged radar radome repair device
[AD-D011158] 23 p3712 N84-33528
Dihalo-monaphospha-s-triazines and their derivatives
[AD-D011175] 23 p3714 N84-33545
Halo-substituted diphospha-s-triazines and their derivatives
[AD-D011176] 23 p3714 N84-33546
Method for refining microstructures of prealloyed powder metallurgy titanium articles
[AD-D011162] 23 p3718 N84-33570
Method for refining microstructures of blended elemental powder metallurgy titanium articles
[AD-D011177] 23 p3718 N84-33571
System for the removal of airborne contaminants from aircraft environmental control systems
[AD-D011172] 23 p3727 N84-33615
FET switching regulator
[AD-D011146] 23 p3735 N84-33665
Process for making a fluid-cooled electrical conductor
[AD-D011150] 23 p3735 N84-33666
Electronic cancelling of acoustic traveling waves
[AD-D011153] 23 p3735 N84-33667
Feed displacement correction in a space fed lens antenna
[AD-D011155] 23 p3742 N84-33722
Multilayer ceramic capacitor
[AD-D011166] 23 p3742 N84-33723
Triggered spark gap discharger
[AD-D011174] 23 p3742 N84-33724
Mounting arrangement for an inertial measurement unit
[AD-D011148] 23 p3750 N84-33770
Applique rate converter
[AD-D011161] 23 p3751 N84-33777
Multi-(OTeF5)-substituted fluorocarbons
[AD-D011171] 23 p3751 N84-33778
Constant speed drive with compensation using differential gears
[AD-D011156] 23 p3756 N84-33812
Harness formation end-effector with interchangeable tool capability
[AD-D011168] 23 p3757 N84-33813
Solar energy concentrator system
[AD-D011149] 23 p3785 N84-34004
Portable, sequential air sampler
[AD-D011169] 23 p3793 N84-34057
Atmospheric contrast transmittance monitor
[AD-D011167] 23 p3798 N84-34083
Selection of data from busses for test
[AD-D011160] 23 p3813 N84-34176
Bulk acoustic resonator tracking filter
[AD-D011159] 23 p3821 N84-34233
Broadband guided-wave optical frequency translator using an electro-optical Bragg array
[AD-D011164] 23 p3825 N84-34260
Optical flip-flop system
[AD-D011165] 23 p3825 N84-34261
Self-deploying afterbody apparatus for an ejection seat
[AD-D011205] 24 p3852 N84-34433
Airplane take-off system
[AD-D011204] 24 p3856 N84-34449
Range-only multistatic radar system
[AD-D011201] 24 p3896 N84-34671
Microwave discharge apparatus and method with dual function priming resonator
[AD-D011202] 24 p3899 N84-34689
Method for dynamically recording distortion in a transparency
[AD-D011209] 24 p3902 N84-34707
X33 cut quartz for temperature compensated saw devices
[AD-D011200] 24 p3903 N84-34713
Ultrasonic inspection of composite materials
[AD-D011210] 24 p3911 N84-34768
Data buffer apparatus between subsystems which operate at differing or varying data rates
[AD-D011206] 24 p3940 N84-34941

DEPARTMENT OF THE ARMY, WASHINGTON, D. C.

Skunkworks 81 revisited: An update on acquisition strategy
[AD-P002759] 13 p2051 N84-23306
High power optical switch for microsecond switching
[AD-D011084] 19 p3017 N84-29123
Semiconductor multipactor device
[AD-D011067] 19 p3017 N84-29125
Monolithic amplifier
[AD-D011075] 19 p3017 N84-29129
Resonator insensitive to paraxial accelerations
[AD-D010998] 19 p3018 N84-29130
Method of minimizing the aging rate of an oscillator
[AD-D011049] 19 p3018 N84-29135
A voltmeter for remotely sensing high voltages
[AD-D011046] 19 p3027 N84-29199
An explosive ordnance disposal protective suit
[AD-D011072] 19 p3071 N84-29483
Multiple gap optically activated switch
[AD-D011014] 19 p3104 N84-29723
Porous catalytic metal plate degeneration bed in a gas generator
[AD-D011078] 21 p3373 N84-31407
Thixotropic flame inhibitors for rocket propellant grains
[AD-D011081] 21 p3373 N84-31408
Voice integrated presentation system
[AD-D011076] 21 p3387 N84-31495
Temperature controlled adjusting mechanism
[AD-D011077] 21 p3406 N84-31601
Retractable tie-down device
[AD-D011079] 21 p3413 N84-31643
Shaft coupling device
[AD-D011080] 21 p3413 N84-31644
Tactical high frequency array antennas
[AD-D011095] 22 p3587 N84-32717
Distributed pulse forming network for magnetic modulator
[AD-D011062] 23 p3791 N84-34041
A method for producing nutritionally dense freeze dried food bars
[AD-D011052] 23 p3811 N84-34166
Method of directly crystallizing a (Sm + Ti):Fe = 1:5 compound
[AD-D011061] 23 p3830 N84-34291
Precision cutting of millimeter wave ferrite materials
[AD-D011179] 24 p3891 N84-34639
Frequency synthesizer
[AD-D011203] 24 p3903 N84-34714
Optical fiber splice sled
[AD-D011180] 24 p3910 N84-34767

DEPARTMENT OF THE NAVY, WASHINGTON, D. C.

An assessment of ablative organotin antifouling (AF) coatings
[AD-A134019] 05 p0658 N84-14326
Analog fiber gyro with extended linear range
[AD-D011009] 19 p2962 N84-28771
Chemical vapor deposition and reactive diffusion of boron on beryllium
[AD-D011043] 19 p2995 N84-28976
Fluorinated polyurethanes
[AD-D011066] 19 p3000 N84-29011
Novel antistatic packaging materials
[AD-D011069] 19 p3000 N84-29012
Furnace transient anneal process and apparatus
[AD-D011048] 19 p3002 N84-29027
Microwave frequency divider
[AD-D011065] 19 p3017 N84-29124
Frequency domain non-linear signal processing apparatus and method for discriminationd against non-Gaussian interference
[AD-D011068] 19 p3017 N84-29126
Organic semiconductor vapor sensing method
[AD-D011070] 19 p3017 N84-29127
Demountable coaxial electrical connector for in-line amplifiers
[AD-D011074] 19 p3017 N84-29128
Three dimensional, orthogonal delay line bootlace lens antenna
[AD-D011020] 19 p3018 N84-29131
Fast turn-on osmium coated cathode
[AD-D011036] 19 p3018 N84-29134
Organophosphorus selective ion mobility spectrometer
[AD-D011010] 19 p3027 N84-29196
Spectrum analyzer and analysis method for measuring power and wavelength of electromagnetic radiation
[AD-D011044] 19 p3027 N84-29198
Extended laser sensor
[AD-D011011] 19 p3029 N84-29214
Dual electrochemical system
[AD-D011035] 19 p3051 N84-29361
A method for determining the magnitude of Earth's gravity
[AD-D011042] 19 p3054 N84-29383
CIG distortion correction with delay lines
[AD-D011025] 19 p3079 N84-29537
Synthesis of arbitrary broadband signals for a parametric array
[AD-D011021] 19 p3100 N84-29691
In-line, concurrent electromagnetic beam analyzer
[AD-D011040] 19 p3102 N84-29704
Fiber optic bundle towed array
[AD-D011034] 19 p3105 N84-29724
Optical sensing devices
[AD-D011038] 19 p3105 N84-29725
Signal processor for remote optical interferometric sensors
[AD-D011045] 19 p3105 N84-29726
Fiber optic lever towed array
[AD-D011047] 19 p3105 N84-29727
Position and restraint system for aircrewman
[AD-D011058] 22 p3532 N84-32364
Direct measurement of Earth's vertical deflection using global positioning system
[AD-D011099] 22 p3534 N84-32373
Pin rooted blade biaxial air seal
[AD-D011086] 22 p3537 N84-32391
Underwater depth telemetry
[AD-D011054] 22 p3541 N84-32418
Expendable infrared source and method therefor
[AD-D011112] 22 p3561 N84-32551
3,5,5-trinitro-3-azaheptane-1,7-diol and a method of synthesis
[AD-D011132] 22 p3562 N84-32555
Quick Deployment Vehicle (QDV)
[AD-D011060] 22 p3563 N84-32563
Around-a-mast quadrifilar microstrip antenna
[AD-D011051] 22 p3571 N84-32617
Signal waveform detector using synthetic FM demodulation
[AD-D011055] 22 p3572 N84-32618
Method for making Josephson junctions with contamination-free interfaces utilizing a ZNO contact insulator
[AD-D011057] 22 p3580 N84-32671
Cascaded adaptive loops
[AD-D011116] 22 p3580 N84-32674
Grounding ring for shielded cable
[AD-D011135] 22 p3581 N84-32675
Digital multi-tapped delay line with automatic time-domain programming
[AD-D011136] 22 p3581 N84-32676
Pulse driver for flux gate magnetometer
[AD-D011053] 22 p3596 N84-32774
Visual field perimeter and psychomotor tracking performance measuring apparatus
[AD-D011056] 22 p3596 N84-32775
Fiber optic magnetometer for the detection of dc magnetic fields without hysteretic ambiguity
[AD-D011085] 22 p3599 N84-32794
Interferometrically tuned laser resonator
[AD-D011125] 22 p3600 N84-32800
Adjustable self-releasing hook
[AD-D011082] 22 p3604 N84-32834
Hybrid seal
[AD-D011083] 22 p3605 N84-32835
Target for optically activated seekers and trackers
[AD-D011059] 22 p3655 N84-33171
Fiber optic sensor with enhanced immunity to random environmental perturbations
[AD-D011115] 22 p3656 N84-33174
Polynominal grating
[AD-D011090] 22 p3657 N84-33186
Method for fabricating MNOS structures utilizing hydrogen ion implantation
[AD-D011123] 22 p3661 N84-33208
Aircraft loading adapter for use with ordnance lift vehicle
[AD-D011147] 23 p3696 N84-33421
Optical fiber gyroscope with (3x3) directional coupler
[AD-D011152] 23 p3750 N84-33771
Pivotal mono wing cruise missile with wing deployment and fastener mechanism
[AD-D011192] 24 p3853 N84-34436
Method and apparatus for determination of lubricant stability
[AD-D011193] 24 p3887 N84-34615
Stepped frequency radar target imaging
[AD-D011187] 24 p3893 N84-34652

A 360-degree scanning antenna with cylindrical array of slotted waveguides
[AD-D011189] 24 p3893 N84-34653
Conformal array compensating beamformer
[AD-D011196] 24 p3893 N84-34654
Slotline reverse-phased hybrid ring coupler
[AD-D011182] 24 p3897 N84-34673
Method and apparatus for precise measurement of long-term stability of photodetectors
[AD-D011190] 24 p3897 N84-34674
Fiber optic rotation-sensing gyroscope with (3x2) coupler
[AD-D011195] 24 p3902 N84-34706
Release mechanism for a cylindrical object recovery device
[AD-D011183] 24 p3909 N84-34762
Cylindrical object recovery device
[AD-D011184] 24 p3909 N84-34763
Frequency independent acoustic antenna
[AD-D011194] 24 p3963 N84-35093
Gated fiber optic transmission
[AD-D011197] 24 p3963 N84-35094
Chemical etching of transformed structures
[AD-D011188] 24 p3966 N84-35114

DEPARTMENT OF TRADE AND INDUSTRY, LONDON (ENGLAND).
Dissemination of data and information
07 p1086 N84-17066
Data organisations and their management
07 p1087 N84-17069

DEPUTY CHIEF OF STAFF FOR RESEARCH DEVELOPMENT AND ACQUISITION (AIR FORCE), WASHINGTON, D.C.
Justification of estimates for fiscal year 1985 submitted to Congress February 1984. Other procurement, Air Force
[AD-A140835] 17 p2773 N84-27608
Justification of estimates for fiscal year 1985 submitted to Congress February 1984. Missile procurement, Air Force
[AD-A140836] 17 p2773 N84-27609
Justification of estimates for fiscal year 1985 submitted to Congress February 1984. Aircraft procurement, Air Force
[AD-A140837] 17 p2773 N84-27610

DESMATICS, INC., STATE COLLEGE, PA.
On the performance of two-stage group screening experiments
[AD-A131970] 03 p0428 N84-12807
Motion sickness incidence: Distribution of time to first emesis and comparison of some complex motion conditions
[AD-A131930] 04 p0573 N84-13772
A note on the analysis of random balance designs
[AD-A133287] 06 p0901 N84-15848
A comparison of random balance and two-stage group screening designs, part 1
[AD-A136487] 09 p1376 N84-18984
Design of experiments in simulation
[AD-A137229] 10 p1562 N84-20236
Research on factor screening in computer simulation
[AD-A139825] 15 p2392 N84-25353
Comparison of Rhesus monkey and baboon -G sub x acceleration experiments
[AD-A141395] 19 p3063 N84-29436

DET NORSKE VERITAS, HOVIK.
Sea state monitoring and applications
08 p1176 N84-17665

DETROIT DIESEL ALLISON, INDIANAPOLIS, IND.
Advanced Gas Turbine (AGT): Power-train system development
[NASA-CR-168056] 01 p0089 N84-10581

DEUTSCHE BUNDESPOST, DARMSTADT (WEST GERMANY).
Attenuation measurements between 840 and 1620 nm on an optical cable in Berlin
[FI-465-TBR-22] 03 p0442 N84-12906
Liquid phase epitaxy of InP/In1-xGxAsyP1-y heterostructures. Part 3: Phase diagrams
[FI-65-TBR-20-PT-3] 03 p0456 N84-13000
Field strength prediction with a topographical data base: Experience gained in the Federal Republic of Germany
10 p1476 N84-19644

DEUTSCHE FORSCHUNGS- UND VERSUCHSANSTALT FUER LUFT- UND RAUMFAHRT, BERLIN (WEST GERMANY).
Periodic flow noise reduction using flow-excited resonators: Theory and application
[DFVLR-FB-83-29] 06 p0831 N84-15409
Definition, sources and lowest possible levels of wind-tunnel turbulence
14 p2096 N84-23576

DEUTSCHE FORSCHUNGS- UND VERSUCHSANSTALT FUER LUFT- UND RAUMFAHRT, BRUNSWICK (WEST GERMANY).
Mathematical modelling and theoretical methods for the aerodynamic behaviour of control devices
01 p0013 N84-10085
Monitoring of defect progression by acoustic emission
01 p0033 N84-10206
Growth of delaminations under fatigue loading
01 p0033 N84-10208
A diagnosis scheme for sensors of a flight control system using analytic redundancy 03 p0316 N84-12067
Evaluation of the stochastic drift of rate integrating gyros as preparation for the analysis of laser gyro drift measurements
[DFVLR-MITT-83-04] 03 p0376 N84-12449
Research towards and development of aerospace vehicle noise certification with emphasis on propeller aircraft and helicopters 06 p0767 N84-15026
Flying qualities experiments of rate command/attitude hold systems in the HFB 320 in-flight simulator
[DFVLR-FB-83-25] 06 p0792 N84-15163
Lectures of a Flight Mechanics Conference
[DFVLR-MITT-83-05] 07 p0944 N84-16120
Contributions of flight mechanics to civil air traffic
07 p0944 N84-16124
Influence of measuring section parameters on the results of a flight-mechanical system identification
07 p0944 N84-16125
Estimation of flight-mechanical motion characteristics with Kalman filters 07 p0944 N84-16126
Gusts simulation for flight-mechanical investigations in wind tunnels 07 p0944 N84-16127
Wake vortices and their aerodynamic alleviation: A review of the literature
[DFVLR-MITT-83-07] 07 p0948 N84-16154
Evaluation and analysis of experience reports concerning wind shear problems
[DFVLR-FB-83-19] 07 p0949 N84-16159
Reasons for numerical errors in digital computers
[DFVLR-MITT-83-13] 07 p1056 N84-16839
On the significance of unsteady surface pressures for aerodynamically induced interior noise of automobiles
[DFVLR-FB-83-28] 10 p1423 N84-19303
Evaluation of radio navigation systems and their configuration with respect to minimum cost
[DFVLR-FB-83-32] 10 p1426 N84-19329
Contribution to the properties of carbon fiber reinforced composites
[DFVLR-MITT-83-16] 10 p1452 N84-19480
Determination of characteristic values for fiber reinforced materials 10 p1452 N84-19481
Methods for nondestructive tests of CFRP laminates
10 p1452 N84-19482
Damage mechanisms in damaged CFRP laminates
10 p1452 N84-19483
Calculation methods for fiber reinforced components
10 p1452 N84-19484
Field evaluation of proposed ICAO annex 16 takeoff noise certification procedure for propeller-driven airplanes not exceeding 5700 kg
[DFVLR-FB-83-34] 12 p1901 N84-22378
Reflectivity measurements of laser gyro mirrors
[DFVLR-FB-83-35] 12 p1909 N84-22434
Propeller and rotor noise testing in aeroacoustic wind tunnels 14 p2097 N84-23583
Flight mechanical analysis of dynamic derivatives of the Dornier variation wind tunnel model
[DFVLR-FM-83-38] 15 p2255 N84-24541
System modeling and identification of equivalent systems with and without compensating time delay for control-augmented aircraft
[DFVLR-FB-83-36] 15 p2259 N84-24570
A comparison of parameter estimation results from flight test data using linear and nonlinear maximum likelihood methods
[DFVLR-FB-84-06] 16 p2449 N84-25708
Design and implementation of input signals for identification of pilot/aircraft models
[DFVLR-FB-84-08] 16 p2449 N84-25709
Proceedings of the 12th Symposium on Aircraft Integrated Data Systems
[DFVLR-MITT-84-01] 17 p2585 N84-26565
Analysing redundant flight path data on two Airbus A-300 aircraft 17 p2586 N84-26577
Pilot-aircraft interaction concerning a wind shear indication system 17 p2588 N84-26586
In-flight investigation of landing approach flying qualities of transport aircraft with relaxed static stability
[DFVLR-FB-84-11] 17 p2610 N84-26706
Analogies between control mechanisms in flight guidance and medicine 17 p2744 N84-27420
Flight mechanics test with a restricted flying aircraft model in a wind tunnel
[DFVLR-FB-84-13] 18 p2789 N84-27701
Regression analysis technique for air data sensor calibration with an inertial navigation system
[DFVLR-MITT-84-03] 18 p2791 N84-27716
On the evaluation of boundary layer measurements on boattailed bodies of revolution in axisymmetric compressible subsonic flow
[DFVLR-FB-84-09] 18 p2837 N84-28010
Development, set up and testing of a measuring system for components of the Derived Azimuth System (DAS)
[BMFT-FB-W-84-005] 19 p2962 N84-28773
Wave propagation from moving singularities and a unified exposition of the linearized theory for aerodynamics and acoustics
[DFVLR-FB-84-17] 19 p3010 N84-29080
Definition and layout of a traffic generator for an air traffic control simulation
[DFVLR-FB-84-15] 20 p3128 N84-29862
In-flight accuracy and coverage tests of ESM- and ECM-systems 24 p3849 N84-34412
General Integrated Multipurpose Inflight Calibration System (GIMICS) 24 p3851 N84-34420

DEUTSCHE FORSCHUNGS- UND VERSUCHSANSTALT FUER LUFT- UND RAUMFAHRT, COLOGNE (WEST GERMANY).
Aerospace research activities in West Germany
02 p0169 N84-11115
Domestic scheduled air transport for the year 2000. Financial and capacity related effects of supply alternatives, considering, also, the cooperation with high speed rail transport services
[DFVLR-FB-83-03] 03 p0328 N84-12141
Development of flight mechanics research in Brunswick 07 p0944 N84-16121
Flow measurements in the stator row of a single-stage transonic axial-flow compressor with controlled diffusion stator blades 07 p0958 N84-16209
Effects on rail transport caused by air transport supply alternatives within the Federal Republic of Germany for the year 2000
[DFVLR-MITT-83-14] 08 p1101 N84-17160
Circadian rhythms and sustained operations
11 p1697 N84-21067
High speed photography and pulsed laser holography for diagnostic investigations of mixture formation and vibration in reciprocating engines
[DFVLR-MITT-83-18] 12 p1819 N84-21857
Investigation of the behavior of axial compressor stages with steady state inlet distortions
[DFVLR-FB-83-39] 15 p2262 N84-24590
Free-flyer biostack experiment
15 p2277 N84-24674
Liquid fuel atomization and mixing in a high velocity air stream 15 p2291 N84-24746
Metallurgy: Development of material recovery
16 p2465 N84-25795
First results of a MAUS experiment to investigate the stability of a metallic dispersion
17 p2612 N84-26724
Preparation of dispersion alloys: Component separation during cooling and solidification of dispersions of immiscible alloys 17 p2613 N84-26725
Are living cells sensitivity to gravity?
[DFVLR-MITT-83-19] 17 p2743 N84-27418
The research program of the Institute for Aerospace Medicine 17 p2744 N84-27419
A mechanical model of the human body and its application 17 p2744 N84-27421
Models for the evaluation of work loads of crews during long distance flight 17 p2744 N84-27422
Cardiovascular reactions on orthostasis and weightlessness 17 p2744 N84-27424
Do living cells have a good sensitivity to gravity
17 p2744 N84-27425
Biophysics space research 17 p2745 N84-27426
The deep diving simulator TITAN: Physiological problems of stays in large water depths
17 p2745 N84-27427
The effects of nonphysiological oxygen supply on the organism 17 p2745 N84-27428
Hot corrosion in aircraft engines
[DFVLR-MITT-84-04] 18 p2796 N84-27742
Optimization of a numerical method to calculate elliptic flows
[DFVLR-FB-84-16] 20 p3187 N84-30252

DEUTSCHE FORSCHUNGS- UND VERSUCHSANSTALT FUER LUFT- UND RAUMFAHRT, GOETTINGEN (WEST GERMANY).
Variation of the size of nitrogen droplets in a flow of gaseous nitrogen
[DFVLR-FB-83-13] 02 p0221 N84-11450
The vortex skeleton model for three-dimensional steady flows 03 p0321 N84-12101
Separation and vortical-type flow around a prolate spheroid: Evaluation of relevant parameters
03 p0323 N84-12113

Measurement of unsteady aerodynamic pressures
[DFVLR-MITT-83-08] 07 p0949 N84-16155
The Prandtl Hergesell project of a National Research Establishment for Aeronautics
[DFVLR-MITT-83-10] 08 p1096 N84-17123
The experimental/analytical determination of the real normal mode parameters of a structure with limited accessibility
[DFVLR-FB-83-26] 09 p1334 N84-18711
Model equations describing unsteady fluid motion
[DFVLR-MITT-83-17] 10 p1495 N84-19775
The existence of Karman vortex streets of unequal vortex strengths and possible forms of wake flow behind bluff bodies
[DFVLR-FB-83-33] 12 p1766 N84-21519
Development of procedures for component mode synthesis
[DFVLR-IB-232-82-C-09] 12 p1782 N84-21626
The new calibration tank for engine simulators at DFVLR Goettingen 14 p2099 N84-23593
Fundamentals of hypersonics: Aerodynamics and heat transfer 16 p2441 N84-25660
The measurement of heat transfer and temperature distributions in hypersonic testing
16 p2441 N84-25662
A probe for direct measurements of flow direction
[DFVLR-FB-83-27] 16 p2486 N84-25948
Numerical and optical experiments on the Weissenberg effect
[DFVLR-FB-84-04] 16 p2493 N84-25992
On vector calculation of mechanic flow computer programs 16 p2549 N84-26358
Modeling of the overall aeroelastic system of a wind turbine aided by symbolic programming
[DFVLR-FB-84-10] 18 p2877 N84-28265
Comparative measurements of the unsteady pressures on three oscillating wing-tip models
[DFVLR-FB-84-07] 19 p2960 N84-28758
Oscillatory convection
[DFVLR-FB-84-14] 23 p3747 N84-33756

DEUTSCHE FORSCHUNGS- UND VERSUCHSANSTALT FUER LUFT- UND RAUMFAHRT, HAMBURG (WEST GERMANY).

The relationship between personality and efficiency
17 p2744 N84-27423

DEUTSCHE FORSCHUNGS- UND VERSUCHSANSTALT FUER LUFT- UND RAUMFAHRT, OBERPFAFFENHOFEN (WEST GERMANY).

Systematic computer aided control design
01 p0015 N84-10100
Mathematical models for the brightness temperature of object and environment in the microwave region
[DFVLR-FB-83-12] 02 p0211 N84-11378
Offset-reflector with horn feed array as an experimental sensor for radiometric measurements
[DFVLR-FB-83-16] 02 p0211 N84-11379
The simulation of a Frequency Shift Keying (FSK) diversity system
[DFVLR-FB-83-22] 03 p0363 N84-12363
Monte Carlo computer simulation program (MCHP) supporting a covariance analysis using the STANHP program
[DFVLR-MITT-83-06] 03 p0421 N84-12756
Radiative-dynamic properties of Arctic stratus clouds and their possible modification by aerosol particles
[DFVLR-FB-83-23] 06 p0882 N84-15740
A minimax theorem for antijamming group codes
[DFVLR-FB-83-30] 06 p0906 N84-15879
Monitoring of ship routes via satellite
[DFVLR-MITT-83-15] 07 p0963 N84-16240
Radar activities of the DFVLR Institute for Radio Frequency Technology 07 p0990 N84-16418
Relation between atmospheric scattering and backscattering coefficient
[DFVLR-FB-83-20] 07 p1075 N84-16989
Results of a slant range visibility field test in Munich-Reim
[DFVLR-MITT-83-09] 08 p1102 N84-17169
Carrier acquisition and tracking by a COSTAS-loop with automatic frequency control
[DFVLR-FB-83-24] 08 p1108 N84-17202
Remote sensing experiments on Spacelab and STS
08 p1175 N84-17655
Typical remote sensing data products
08 p1175 N84-17656
Workshop on active microwave sensor design
08 p1177 N84-17667
Approaches to radar image interpretation
08 p1177 N84-17669
Status for knowledge: Meteorological affected icing on aircraft in clouds
[DFVLR-MITT-83-12] 08 p1191 N84-17763
Magnetic bearing design for high speed momentum wheels 09 p1296 N84-18474
Deterministic and random phase noise of oscillation
[DFVLR-MITT-83-11] 10 p1483 N84-19695
Pulse heterodyne equipment for measurements of range and velocity of moving targets
[DFVLR-FB-83-18] 10 p1483 N84-19696
Basic investigation on the feasibility of multispectral radiation information from microwave radiometry measurements for Earth-scientific objectives of remote sensing
[DFVLR-FB-83-27] 10 p1526 N84-20000
Comprehensive analyses of variances of meteorological fields over Southern Bavaria
[DFVLR-FB-83-31] 10 p1541 N84-20097
Investigation of the simultaneous application of Combined Optical Adaptive Techniques (COAT) and angle tracking
[DFVLR-FB-83-17] 10 p1579 N84-20347
First stage of equipment for aircraft Do 28 of DFVLR as a research aircraft for icing and first research results
[DFVLR-FB-83-40] 15 p2259 N84-24571
Low authority control of flexible spacecraft via numerical optimization 15 p2268 N84-24621
Preliminary investigations concerning a 90 GHz radiometer satellite experiment
[DFVLR-FB-84-02] 15 p2280 N84-24693
Design of a robust missile controller by vector performance optimization
[DFVLR-FB-84-05] 15 p2280 N84-24694
Linear associative mappings
[DFVLR-FB-84-01] 15 p2396 N84-25375
The DFVLR contrast transmittance model SCOTRAN-program system: Description and operating instruction
[DFVLR-FB-84-18] 20 p 3243 N84-30589
Comparative geologic analysis of LANDSAT and Schuttle Imaging Radar (SIR) - A images of the Adrar des Iforas area in NE Mali
23 p 3769 N84-33895
Stereo methods in satellite meteorology
23 p 3776 N84-33936
Coherent polarimetric C-band radar for atmospheric research
23 p 3776 N84-33937
Simulation of Shuttle Imaging Radar (SIR) -B imagery over Freiburg test site
23 p 3779 N84-33958
Quantitative determination of aerosol concentrations by lidar with respect to various relative humidities
23 p 3780 N84-33968
Preliminary investigations concerning a 90 GHz radiometer satellite experiment
23 p 3781 N84-33978

DEUTSCHE FORSCHUNGS- UND VERSUCHSANSTALT FUER LUFT- UND RAUMFAHRT, PORZ (WEST GERMANY).

The cryogenic wind tunnel Cologne
14 p2095 N84-23568

DEUTSCHE FORSCHUNGS- UND VERSUCHSANSTALT FUER LUFT- UND RAUMFAHRT, STUTTGART (WEST GERMANY).

Behavior of idealized discontinuities and impact damages in CFRP under fatigue loading
01 p0034 N84-10214
Model calculations for a CO2 mixing laser with screen nozzle
[DFVLR-FB-83-41] 15 p2339 N84-25039
Development of media for dynamic latent heat storage for the low temperature range. Part 1: Thermal analysis of selected salt hydrate systems
[DFVLR-FB-84-03-PT-1] 15 p2362 N84-25170
Towards a cycle without loss: Cobalt in the aircraft industry 23 p3702 N84-33469

DEUTSCHE FORSCHUNGS- UND VERSUCHSANSTALT FUER LUFT- UND RAUMFAHRT, WESSELING (WEST GERMANY).

Flight performance of the Spacelab metric camera experiment 23 p3764 N84-33858
Modular Optoelectronic Multispectral Scanner (MOMS) data of Bolivia: Comparison with LANDSAT Multispectral Scanner (MSS) and geological interpretation
23 p3765 N84-33865
The modification of the modulation transfer function by sea slicks measured by L-band radar
23 p3780 N84-33971
Oil spill detection with DFVLR X-band SLAR
23 p3781 N84-33973
Search for exotic molecules in bright comets
24 p3981 N84-35222

DEUTSCHE FORSCHUNGSANSTALT FUER HUBSCHRAUBER UND VERTIKALFLUGTECHNIK, STUTTGART (WEST GERMANY).

Analysis of beam interaction of the electrical thruster RIT 10 (particle emission) with surfaces
[DFVLR-FB-83-04] 02 p0185 N84-11202
Calculation of performance of an RF-excited transverse flow CO2 laser
[DFVLR-FB-83-06] 05 p0687 N84-14514
Microwave discharge in a supersonic flow for the excitation of a gas dynamic CO laser
[DFVLR-FB-83-21] 07 p1011 N84-16558

DEUTSCHE GESELLSCHAFT FUER FORSCHUNG UND TECHNOLOGIE E.V., BOCHUM (WEST GERMANY).

The future of materials
[REPT-2/1982] 02 p0205 N84-11340
The role of the geoid in high precision geodesy and oceanography
[SER-A-96] 02 p0235 N84-11540
A contribution to 3D-operational geodesy. Part 3: OPERA, a multipurpose program for operational adjustment of geodetic observations of terrestrial type
[SER-B-264-PT-3] 02 p0235 N84-11541

DEUTSCHE GESELLSCHAFT FUER METALLKUNDE, STUTTGART (WEST GERMANY).

Systematic evaluation of technical causes of damage
[ISBN-3-88355-070-1] 14 p2125 N84-23734

DEUTSCHE GOLD- UND SILBER-SCHEIDEANSTALT, FRANKFURT AM MAIN (WEST GERMANY).

Development of contact materials made by internal oxidation
[BMFT-FB-T-83-196] 07 p0977 N84-16332
Development of contact materials based on Ag made by powder metallurgy
[BMFT-FB-T-83-248] 10 p1463 N84-19557
The quick and complete recovery of the precious metals of low-grade sweeps and scrap
[BMFT-FB-T-84-003] 15 p2299 N84-24801

DEUTSCHE LUFTHANSA AKTIENGESELLSCHAFT, COLOGNE (WEST GERMANY).

Engine condition monitoring with aircraft integrated data systems on Lufthansa A310 17 p2585 N84-26571

DEUTSCHE LUFTHANSA AKTIENGESELLSCHAFT, FRANKFURT AM MAIN (WEST GERMANY).

Activities report of the aerospace industry in West Germany 03 p0328 N84-12139
Activities report of the aerospace industry in West Germany 03 p0328 N84-12140

DEUTSCHE LUFTHANSA A.G., HAMBURG (WEST GERMANY).

First experience with ARINC 717 Aircraft Integrated Data Systems (AIDS) on Airbus 310 for maintenance support
17 p2586 N84-26572

DEUTSCHER WETTERDIENST, HAMBURG (WEST GERMANY).

Lidar observations of the plumes of incineration ships
23 p3780 N84-33967
The spatial and temporal distribution of diffuse and direct solar radiation in the Federal Republic of Germany
[BMFT-FB-T-84-125] 23 p3802 N84-34110

DEUTSCHER WETTERDIENST, HOHENPEISSENBERG (WEST GERMANY).

Technical and meteorological qualifications of areal precipitation measurement by radar
18 p2886 N84-28316
Quantitative measurement of rainfall rate, theoretical basis 18 p2886 N84-28317
Practical measurement of rainfall rate by radar
18 p2886 N84-28318
Radar network in West Germany
18 p2888 N84-28332

DEUTSCHE WETTERDIENST, OFFENBACH AM MAIN (WEST GERMANY).

Reports from the German Meteorological Service. Number 163: Comparative measurements with wind shielded and unshielded rain gages
[ISBN-3-88148-203-2] 02 p0253 N84-11654
Reports from the German Meteorological Service, no. 163. Contribution to the classification of waste heat weather situations by means of thermal stratification. Upper Rhine model. Waste heat project, Upper Rhine, part 2
[ISBN-3-88148-206-7] 12 p1849 N84-22048
Reports from the German Meteorological Service. No 21: The evolution of meteorological observations in Austria, including Bohemia and Moravia up to the year 1700
[ISBN-3-88148-208-3] 14 p2178 N84-24046
Climatological and statistical bases to explain the treatment of climate data 19 p3056 N84-29391
Reports from the German Meteorological Service. Number 164: The climate in selected areas of the Federal Republic of Germany, Bremen
[ISBN-3-8848-210-5] 19 p3056 N84-29392
Reports from the German Meteorological Service. Number 165: The wind conditions in the Federal Republic of Germany with a view to windpower utilization (especially network planning). Part 3: Interior. Part 4: Hinterland
[ISBN-3-88148-211-3] 19 p3057 N84-29393

DEUTSCHES GEODAETISCHES FORSCHUNGSINSTITUT, MUNICH (WEST GERMANY).

POPSAT: A candidate satellite system for solid Earth applications and sciences. Preliminary feasibility study. Volume 1: Summary
[ESA-CR(P)-1882-VOL-1] 17 p2614 N84-26735

POPSAT: A candidate satellite system for solid Earth applications and sciences. Preliminary feasibility study. Volume 2: Development program
[ESA-CR(P)-1882-VOL-2] 17 p2614 N84-26736
Accuracy requirements of space laser systems for geodetic applications 24 p3906 N84-34736

DEVELOPMENTAL SCIENCES, INC., CITY OF INDUSTRY, CALIF.
Design of a remotely controlled hovercraft vehicle for spill reconnaissance
[PB84-124064] 08 p1105 N84-17187

DIDIER-WERKE A.G., WIESBADEN (WEST GERMANY).
Sintering behavior of refractories in the ternary system ZrO2-Al2O3-Cr2O3 in dependence of the firing atmosphere
[BMFT-FB-T-83-105] 02 p0197 N84-11285

DIEHL G.M.B.H. UND CO., NUERENBERG (WEST GERMANY).
Development of a large area color display
[BMFT-FB-T-83-206] 10 p1499 N84-19801

DIGITAL EQUIPMENT CORP., HUDSON, MASS.
SISAL: Streams and iteration in a Single-Assignment Language. Language reference manual, version 1.1
[DE83-016576] 04 p0562 N84-13843

DIGITAL PROGRAMMING SERVICES, INC., WALTHAM, MASS.
Development of theoretical models and analyses of the micro-physics of cloud and precipitation systems
[AD-A133557] 06 p0862 N84-15735

DIKEWOOD CORP., ALBUQUERQUE, N. MEX.
Bounding of signal levels at terminations of a multiconductor transmission-line network
[AD-A139757] 15 p2329 N84-24983
Alternative labelling schemes in electromagnetic topology
[AD-A144300] 24 p3954 N84-35037

DIKEWOOD INDUSTRIES, INC., ALBUQUERQUE, N. MEX.
Design of incident field B-dot sensor for the nose boom of NASA F-106B aircraft
[AD-A141765] 19 p2964 N84-28787

DIRECTION DE LA METEOROLOGIE NATIONALE, PARIS (FRANCE).
Higher-order turbulence models including a cloud layer, appendix F 18 p2884 N84-28301

DIRECTION DE LA PREVENTION DES POLLUTIONS, NEUILLY (FRANCE).
The remote sensing of oil pollution at sea: An attempt at synthesis 08 p1176 N84-17662

DIRECTORATE OF RADIO TECHNOLOGY, LONDON (ENGLAND).
Frequency management in the United Kingdom for private mobile radio systems 10 p1476 N84-19645

DISTRICT OF COLUMBIA UNIV., WASHINGTON, D. C.
A research program in determination of heavy metals in sediments and benthic species in relation to nuclear power plant operation
[NASA-CR-173537] 15 p2366 N84-25195

DOD WEAPON SUPPORT IMPROVEMENT AND ANALYSIS OFFICE, ALEXANDRIA, VA.
Policy initiatives to achieve readiness and support objectives
[AD-P002804] 13 p2058 N84-23350

DOMINION ASTROPHYSICAL OBSERVATORY, VICTORIA (BRITISH COLUMBIA).
Cluster analysis of rare earths in stellar spectra 09 p1410 N84-19222

DONOVAN, HAMESTER AND RATTIEN, INC., MCLEAN, VA.
Photovoltaic-cell-reseach priorities
[DE84-000066] 04 p0559 N84-13683

DORNIER-WERKE G.M.B.H., FRIEDRICHSHAFEN (WEST GERMANY).
Numerical solutions of the Euler equations simulating vortex flows around wings 03 p0324 N84-12120
System definition Roentgensatellit, phase B 1.2
[BMFT-FB-W-83-010] 03 p0342 N84-12219
Modern software development tools in space projects on the example of a Spacelab experiment 05 p0725 N84-14761
The lock-on-before-launch weapon delivery and display/control consideration 06 p0772 N84-15056
Study on damping representation related to spacecraft structural design
[EMSB-18/83] 06 p0795 N84-15182
New technologies in the forefront of industrial developments 07 p0944 N84-16123
Study on the baffle system of the sounding rocket payload INTER-ZODIAK
[BMFT-FB-W-83-015] 07 p0962 N84-16239
Concept study phase A2 for the solar spectrograph PETRA
[BMFT-FB-W-83-014] 07 p1008 N84-16540
Pilot system for the purification of rinse water and for the recuperation of metals in electroplating companies. Pilot system metal recovery from waste water (RMA)
[BMFT-FB-T-83-206] 08 p1126 N84-17323
Concept study of an automatic ellipsoidal mirror furnace facility, prephase A. Volume 1: Executive summary
[ERC-RP-200-DS-009-VOL-1] 08 p1141 N84-17423
Concept study of an automatic ellipeoidal mirror furnace facility, prephase A. Volume 2: Technical descriptions
[ERC-RP-200-DS-009-VOL-2] 08 p1141 N84-17424
Scatterometer System Simulator (SSS), phase 1: Definition
[ESA-CR(P)-1788] 08 p1191 N84-17765
Assessment of data handling configurations for onboard operating system definition (phase 1)
[ESA-CR(P)-1787] 09 p1273 N84-18314
Dynamic analysis of a Bearing and Power Transfer Assembly (BAPTA) solar generator system 09 p1294 N84-18456
The Spacelab Atmosphere Storage and Control Section (ASCS) and its orbiter common hardware flight performance 10 p1443 N84-19427
Spacelab/Orbiter atmosphere revitalization subsystem commonality and flight experience 10 p1443 N84-19428
The complementary roles of existing and advanced environmental, thermal control and life support technology for space stations 10 p1443 N84-19429
Biological life support system 10 p1444 N84-19430
A new Traveling Wave Tube (TWT) cooling concept 10 p1445 N84-19438
Thermal design features of Rosat X-ray telescope 10 p1445 N84-19443
Flat plate heat pipe collectors made by roll bonding
[BMFT-FB-T-83-202] 10 p1495 N84-19778
Microwave remote sensing experiment for first Spacelab mission
[BMFT-FB-W-83-022] 10 p1527 N84-20001
High temperature electrolysis of water vapor. Status and perspectives of the German research and development activities 11 p1739 N54-21349
The introduction of clampbands in spacecraft structural mathematical models
[EMSB-12/83] 12 p1782 N84-21627
Study of wind scatterometer antenna for ERS-1. Volume 1: Executive summary report
[Y/A-3380] 13 p2017 N84-23080
Study of windscatterometer antenna for ERS-1
[MIX/A-3188] 13 p2018 N84-23081
Turbulent diffuser flow studies related to the design of the ETW diffuser 14 p2095 N84-23572
Docking mechanism for in-orbit assembly and spacecraft servicing 15 p2267 N84-24614
Attitude control on large flexible spacecraft 15 p2268 N84-24620
Chemical and isotopic measurements of micrometeoroids by secondary ion mass spectrometry (A0187-2) 15 p2276 N84-24670
Actuator development for the Instrument Pointing System (IPS) 15 p2347 N84-25080
High temperature electrolysis of water vapor: HOT ELLY, phase 2A
[BMFT-FB-T-84-032] 16 p2463 N84-25784
Intelligent flight data recorder: A contribution to on-condition maintenance and optimization of operation 17 p2585 N84-26568
POPSAT: A candidate satellite system for solid Earth applications and sciences. Preliminary feasibility study. Volume 1: Summary
[ESA-CR(P)-1882-VOL-1] 17 p2614 N84-26735
POPSAT: A candidate satellite system for solid Earth applications and sciences. Preliminary feasibility study. Volume 2: Development program
[ESA-CR(P)-1882-VOL-2] 17 p2614 N84-26736
Ocean wind field measurement performance of the ERS-1 scatterometer 17 p2713 N84-27273
A SAR system test unit for verification of user requirements
[BMFT-FB-W-84-002] 19 p3009 N84-29074
Selective coating heat pipe collector adaptation to solar energy plants
[BMFT-FB-T-84-054] 19 p3025 N84-29187
German-Argentinian R and D project for the utilization of wind energy
[BMFT-FB-T-84-080] 20 p3237 N84-30549
ERS-1 system simulation and calibration 23 p3783 N84-33991
The ERS-1 ground segment 23 p3783 N84-33994
Development of a production process for central receiver coatings
[BMFT-FB-T-84-124] 23 p3792 N84-34051
Determination of external store drag 24 p3847 N84-34397

DORNIER-WERKE G.M.B.H., MUNICH (WEST GERMANY).
Prediction of condensation onset and growth in the European Transonic Wind Tunnel (ETW) 14 p2096 N84-23578
Experience in engine face, non-steady, flow measurements through a side and bottom engine air inlet duct 14 p2100 N84-23600

DORTMUND UNIV. (WEST GERMANY).
Physico-chemical studies on copper sulfide. The CdS-Cu2S solar cell
[BMFT-FB-T-84-065] 19 p2990 N84-28947
Weak corrections to the e+e-yields mu+mu-asymmetry
[DO-TH-83-16] 20 p3297 N84-30939

DOSHISHA UNIV., KYOTO (JAPAN).
Statistical fatigue and residual strength degradation model for glass polyester laminates 15 p2309 N84-24857

DOUGLAS AIRCRAFT CO., INC., LONG BEACH, CALIF.
The development of FAST-FLOW (a program for flutter optimization to satisfy multiple flutter requirements) 02 p0171 N84-11124
Douglas Aircraft Company Advanced Concept Ejection Seat (ACES 2), revision c
[AD-A133628] 05 p0628 N84-14131
Research opportunities for future commercial transports 11 p1619 N84-20594
Nonadiabatic model wall effects on transonic airfoil performance in a cryogenic wind tunnel 14 p2096 N84-23579
Selected advanced aerodynamic and active control concepts development
[NASA-CR-3469] 18 p2786 N84-27683
Experimental investigation of elastic mode control on a model of a transport aircraft
[NASA-CR-3472] 18 p2792 N84-27721
Configuration design studies and wind tunnel tests of an energy efficient transport with a high-aspect-ratio supercritical wing
[NASA-CR-3524] 19 p2955 N84-28727
Results of design studies and wind tunnel tests of high-aspect-ratio supercritical wings for an energy efficient transport
[NASA-CR-159332] 19 p2956 N84-28735
Wind tunnel tests of high-lift systems for advanced transports using high-aspect-ratio supercritical wings
[NASA-CR-3523] 19 p2957 N84-28742
Propulsion in a life-saving role for ACES 2 20 p3141 N84-29942
Results of design studies and wind tunnel tests of an advanced high lift system for an Energy Efficient Transport
[NASA-CR-159389] 23 p3693 N84-33403
Advanced composite vertical stabilizer for DC-10 transport aircraft
[NASA-CR-173985] 24 p3878 N84-34573

DOW CHEMICAL CO., MIDLAND, MICH.
Sources generating and reporting numerical and factual data 07 p1086 N84-17062
The evaluation/validation process: Data from disciplines resting on good theoretical foundations 07 p1086 N84-17065

DOW CORNING CORP., MIDLAND, MICH.
New silicon rubber cable insulation promises circuit integrity, in flaming environment 11 p1723 N84-21237
Investigation of structure-permeability relationships of silicone polymer membranes
[PB84-160977] 14 p2130 N84-23771

DOW CORNING G. M. B. H., MUNICH (WEST GERMANY).
Support of oil lubrication by bonded coatings 15 p2342 N84-25057

DOWTY AND SMITH INDUSTRIES CONTROLS LTD., CHELTENHAM (ENGLAND).
Full authority digital electronic engine controls and their integration with flight control systems in VSTOL aircraft 03 p0316 N84-12064

DOWTY ELECTRONICS LTD., LONDON (ENGLAND).
Automating the testing of software 06 p0774 N84-15074

DRAEGERWERK A.G., LUEBECK (WEST GERMANY).
Development of an electrically controllable gas flow valve for use in patient ventilators
[BMFT-FB-T-84-129] 23 p3757 N84-33819
Quantitative determination of gaseous air pollutants by semiconducting sensors
[BMFT-FB-T-84-113] 23 p3793 N84-34058

DRAPER (CHARLES STARK) LAB., INC., BOSTON, MASS.
Optimizing the thrust deflecting surface for the pneumatic thrust deflector
[AD-A140612] 17 p2609 N84-26703
Feedback in robotics for assembly and manufacturing
[PB84-177112] 17 p2675 N84-27044

Materials research for advanced inertial instrumentation. Task 3: Rare earth magnetic material technology as related to gyro torquers and motors
[AD-A140611] 17 p2762 N84-27542

DRAPER (CHARLES STARK) LAB., INC., CAMBRIDGE, MASS.

Materials research for advanced inertial instrumentation. Task 2: Gas bearing material development
[AD-A130471] 01 p0007 N84-10044
Probabilistic model for assessing time-varying contaminant levels
[PB83-232108] 01 p0115 N84-10745
Characteristics of various types of ablative materials with associated naval applications
[AD-A133682] 05 p0645 N84-14243
Shuttle on-orbit dynamics 08 p1110 N84-17216
ACOSS eleven (Active Control Of Space Structures), volume 1
[AD-A135675] 09 p1273 N84-18311
ACOSS eleven (Active Control Of Space Structures), volume 2
[AD-A135676] 09 p1273 N84-18312
Thermal evaluation of selected ablative materials in transient low heat flux environments
[AD-A139441] 14 p2130 N84-23768
Verification and validation techniques applied to the reconfigurable block SD satellite software 15 p2269 N84-24626
ACOSS eleven (Active Control Of Space Structures), volume 1
[AD-A140025] 15 p2282 N84-24703
ACOSS eleven (Active Control Of Space Structures), volume 2
[AD-A140026] 15 p2282 N84-24704
Transient EHL effects in starved ball bearings 15 p2341 N84-25054
Development and evaluation of a fault-tolerant multiprocessor (FTMP) computer. Volume 4: FTMP executive summary
[NASA-CR-172286] 15 p2395 N84-25366
Materials research for advanced inertial instrumentation. Task 2: Gas bearing material development
[AD-A140435] 16 p2446 N84-25690
Advances in strapdown inertial systems: Introduction and overview 16 p2446 N84-25692
Modular strapdown guidance unit with embedded microprocessors 16 p2447 N84-25697
Specifying the behavior of concurrent systems
[NASA-CR-173839] 21 p3464 N84-31957
Simulation requirements for the Large Deployable Reflector (LDR)
[NASA-CR-171140] 21 p3523 N84-32317
Fault-tolerant system considerations for a redundant strapdown inertial measurement unit
[NASA-CR-172426] 23 p3692 N84-33396

DREXEL UNIV., PHILADELPHIA, PA.

Fracture mechanics of sublaminate cracks in composite laminates 01 p0035 N84-10218
Microstructure and properties of P/M tool steels
[AD-A130980] 02 p0194 N84-11259
Cold sintering: A new powder consolidation process
[AD-A131687] 03 p0353 N84-12292
A fundamental study of P/M processed elevated temperature aluminum alloys
[AD-A136154] 09 p1284 N84-18387
Combustion characteristics in the transition region of liquid fuel sprays
[NASA-CR-175396] 10 p1454 N84-19495
Numerical study of mesoscale convective complexes
[PB84-136506] 10 p1541 N84-20102
Combustion characteristics in the transition region of liquid fuel sprays 11 p1609 N84-20534
An operator calculus for surface and volume modeling 12 p1869 N84-22180
ESCHER: An interactive mesh-generating editor for preparing finite-element input 12 p1872 N84-22198
Effects of mesoscale weather distrubances on contamination concentrations
[DE84-005753] 13 p2010 N84-23036
Fracture mechanics of sublaminate cracks in composite laminates
[AD-A139357] 14 p2120 N84-23706
Solar cell characterization by photocapacitance
[DE84-008215] 14 p2143 N84-23849
Effects of curing stress on intralaminar cracking in graphite-epoxy laminates 15 p2308 N84-24846
Effect of stress singularities on the delamination of laminated composites 15 p2310 N84-24858
Conservation laws for some separable gyroscopic dynamical systems 15 p2313 N84-24876
A mathematical model of the cardiovascular system under +Gz stress 16 p2537 N84-26290
A 3-dimensional finite element analysis of delamination growth in composite laminates. Part 1: The energy methods and case-study problems
[AD-A141248] 18 p2810 N84-27838
A fundamental study of P/M processed elevated temperature aluminum alloys
[AD-A141780] 19 p2994 N84-28974
An information-theoretic approach to target estimation of a laser radar tracking system
[AD-A142247] 19 p3006 N84-29067
Role of texture and structural damage in plane strain deformation processing 21 p3416 N84-31664
Research on output feedback control of systems with ill-conditioned dynamics
[NASA-CR-173921] 22 p3639 N84-33071
LAMPS software 24 p3931 N84-34884

DREYFUSS-PELLMAN CORP., STAMFORD, CONN.

Fracture mechanics of sub-laminate cracks
[AD-A130782] 01 p0096 N84-10623

DU PONT DE NEMOURS (E. I.) AND CO., AIKEN, S.C.

Probabilistic assessment of weld quality in steel piping under seismic conditions
[DE83-012053] 01 p0091 N84-10591
Characterization of borosilicate glass containing Savannah River Plant radioactive waste. 2: Microstructure and durability
[DE83-011246] 02 p0292 N84-11916
Hydrogen compatibility handbook for stainless steels
[DE83-017051] 03 p0354 N84-12301
Helium damage in austenitic stainless steels
[DE83-017494] 03 p0355 N84-12309
Grain-boundary cavitation and weld-underbead cracking in DOP-26 iridium alloy
[DE83-015406] 03 p0389 N84-12539
Calculation of natural convection within a heated enclosure using the method of second moments
[DE84-001596] 04 p0535 N84-13517
SRL tethersonde and echosonde data, Anderson Creek Valley, California
[DE84-001680] 04 p0564 N84-13715
Environmental behavior of Technetium-99
[DP-1644] 06 p0805 N84-15245
Laboratory robotics at the Savannah River Laboratory
[DE84-001760] 06 p0894 N84-15810
Hydrogen effects in stainless steel
[DE84-003483] 07 p0976 N84-16325
Simulation of natural convection in a rectangular loop using finite elements
[DE84-003477] 08 p1160 N84-17550
Detection and sizing of underbead cracks using ultrasonic nondestructive examination
[DE83-012205] 11 p1666 N84-20869
Water level measurement network computer file
[DE84-005388] 11 p1672 N84-20909
Use of microcomputers for inventory management with uncertain demand
[DE84-005179] 11 p1705 N84-21112
Robotics at Savannah River
[DE84-003482] 11 p1712 N84-21158
Prevention of stress-corrosion cracking in nuclear waste storage tanks
[DE84-001410] 14 p2128 N84-23758
Upset weld study for joining 304L stainless steel tubes
[DE84-011507] 20 p3198 N84-30313
The 100 area diesel performance data
[DE84-011136] 21 p3414 N84-31648
Getting into CAD at the Savannah River Plant
[DE84-011581] 21 p3466 N84-31977
Mechanical seal program
[DE84-012421] 22 p3605 N84-32838
The oxidation of hydrazine by nitric acid
[DE84-015063] 23 p3715 N84-33547

DU PONT DE NEMOURS (E. I.) AND CO., WILMINGTON, DEL.

Equipment and design changes in extrusion of foamed fluoropolymer resins 11 p1721 N84-21229
A new engineering approach for cable in fire situations using halogenated polymers 11 p1726 N84-21259
Polymer thick-film conductors and dielectrics for membrane switches and flexible circuitry 12 p1840 N84-21994

DUBLIN INST. FOR ADVANCED STUDIES (IRELAND).

A high-resolution study of ultra-heavy cosmic-ray nuclei (A0178) 15 p2275 N84-24661

DUCHARME (ROBERT G.), INC., DEERFIELD, ILL.

Airport noise and land use compatibility at downstate Illinois airports
[PB84-177377] 17 p2611 N84-26716

DUESSELDORF UNIV. (WEST GERMANY).

Schlieren diagnostics at SPEED 1 10 p1583 N84-20373
Breakdown phenomena in SPEED 1 10 p1583 N84-20374

DUGWAY PROVING GROUND, UTAH.

A vertical wind angle standard deviation calculation method for the unstable surface boundary layer
[AD-A132362] 04 p0567 N84-13739

DUISBURG UNIV. (WEST GERMANY).

A method for the optimization of the geometry and the magnetization of magnetized bodies that are assumed for the solution of the inverse magnetic field problem 23 p3776 N84-33942

DUKE UNIV., DURHAM, N. C.

Electrohydrodynamics 01 p0089 N84-10578
An approach to molecular composites
[AD-A130192] 01 p0141 N84-10927
Development of a data base for carbon dioxide releases resulting from conversion of land to agricultural uses
[DE83-015728] 03 p0402 N84-12828
Search algorithms and their implementation
[AD-A135154] 08 p1219 N84-17953
Studies in boron chemistry
[AD-A135364] 09 p1280 N84-18360
Search with limited resources
[AD-A136122] 09 p1384 N84-19039
System for producing high-resolution polarized and unpolarized beams with a tandem accelerator
[DE84-004054] 09 p1388 N84-19063
Derivation of linearized transfer functions for switching-mode regulations. Phase A: Current step-up and voltage step-up converters
[NASA-CR-175219] 10 p1485 N84-19707
Effort and accuracy in choice
[AD-A136881] 10 p1550 N84-20161
Millimeter and submillimeter wave research: Spectroscopy, energy transfer and techniques
[AD-A137884] 11 p1663 N84-20853
Decompression mechanisms and decompression schedule calculations
[AD-A137868] 11 p1695 N84-21060
Electrohydrodynamic and flow instabilities in nematic polymers
[AD-A137812] 11 p1744 N84-21380
The synthesis and validation of experimental VLSI design using decoupled behavioral, structural and physical specifications 13 p1987 N84-22902
A study of fuzzy relations and their inverse problem
[AD-P002365] 14 p2194 N84-24156
Ultralight reactive metal foams produced as structural shapes in space: System design 18 p2801 N84-27777
The nonlinear dynamics of spinning paraboloidal antennas 21 p3476 N84-32033

DUNDEE UNIV. (SCOTLAND).

Satellite remote sensing, environmental monitoring and the offshore oil and gas industries 03 p0398 N84-12603
Normalization of water-leaving radiance obtained from the Coastal Zone Colour Scanner (CZCS) data 03 p0399 N84-12610
Applications for fisheries 08 p1176 N84-17663

DUNN GEOSCIENCE CORP., LATHAM, N.Y.

Exploration and drilling for geothermal heat in the Capital District, New York
[PB84-153162] 14 p2173 N84-24016

DUNSINK OBSERVATORY, DUBLIN (IRELAND).

Statistical problems in the determination of the cosmological deceleration parameter qo 09 p1412 N84-19233

DURHAM UNIV. (ENGLAND).

Secondary flows and losses in a turbine cascade 07 p0956 N84-16203
The 1983 International Conference on Fourier Transform Spectroscopy September 1983
[AD-A139014] 13 p2043 N84-23258
Secondary flow theory in straight and annular cascades 19 p3022 N84-29163
Secondary loss prediction methods 19 p3022 N84-29164
Factors affecting the supply of strategic raw materials with particular reference to the aerospace manufacturing industry 23 p3702 N84-33467

DYNAMIC CONTROLS, INC., DAYTON, OHIO.

A digital linear position sensor for flight control actuation
[AD-A144283] 24 p3856 N84-34446

DYNAMICS TECHNOLOGY, INC., TORRANCE, CALIF.

PDF: A computer program for calculation of turbulent combustion utilizing a Probability Density Function (PDF) approach
[DE84-000999] 04 p0494 N84-13240
CI: A computer program for calculation of contact indexes which will correct reaction rates evaluated by mean quantities during simulation of turbulent combustion
[DE84-001000] 04 p0494 N84-13244
Computation of turbulent reacting flows: Comparison of various mixing/chemistry interaction models
[DE84-000998] 04 p0534 N84-13514
PDF: A computer program for calculation of turbulent combustion utilizing a Probability Density Function (PDF) approach
[DE84-002525] 05 p0651 N84-14278

DYNATECH R/D CO., CAMBRIDGE, MASS.
Biorefining of selected industrial wastes to liquid fuels and organic chemicals
[DE83-013910] 01 p0054 N84-10346
DYNATEST, MUNICH (WEST GERMANY).
Control of multiaxis vibration systems
03 p0339 N84-12203
DYNATRON CORP., WALTHAM, MASS.
A timing and memory sizing study for wavenumber analyzer
[AD-A135581] 09 p1318 N84-18611
DYTEC ENGINEERING, INC., LONG BEACH, CALIF.
Study of noise-certification standards for aircraft engines. Volume 1: Noise-control technology for turbofan engines
[AD-A133386] 06 p0790 N84-15157
Study of noise-certification standards for aircraft engines. Volume 2: Procedures for measuring far field sound pressure levels around an outdoor jet-engine test stand
[AD-A133408] 06 p0791 N84-15158
Study of noise-certification standards for aircraft engines. Volume 3: Selection and evaluation of engine-noise-certification concept
[AD-A137805] 11 p1614 N84-20563

E

E-F TECHNOLOGY, INC., ST. JOHNS, MICH.
Study of systems and technology for liquid hydrogen production independent of fossil fuels
[NASA-CR-173422] 13 p1965 N84-22768
E-SYSTEMS, INC., ST. PETERSBURG, FLA.
A 500-watt solid-state RF power amplifier AM-7209( )/VRC
[AD-A129327] 01 p0071 N84-10463
E-TECH, INC., ATLANTA, GA.
Development of a solar-driven free-piston heat pump
[DE83-015024] 02 p0220 N84-11440
EAGLE-PICHER CO., JOPLIN, MO.
Research, development and demonstration of nickel-iron batteries for electric-vehicle propulsion
[DE83-014270] 02 p0304 N84-11994
Calcium-thionyl chloride battery technology
[AD-A133570] 06 p0830 N84-15401
EAGLE-PICHER INDUSTRIES, INC., COLORADO SPRINGS, COLO.
Electrochemically deposited cadmium electrode for sealed Ni-Cd cells 23 p3737 N84-33683
Positive electrode fabrication for bi-polar Ni-H2 cells 23 p3739 N84-33700
EAGLE-PICHER INDUSTRIES, INC., JOPLIN, MO.
Shunt diode designs in Li/CF Shuttle batteries 23 p3737 N84-33681
Nickel-iron battery system safety
[NASA-CR-173962] 23 p3744 N84-33733
Nickel-iron battery system safety
[NASA-CR-173937] 23 p3790 N84-34035
EAGLE-PICHER INDUSTRIES, INC., MIAMI, OKLA.
Trace analysis in quartz
[AD-A142425] 20 p3148 N84-29988
EAGLE TECHNOLOGY, INC., ARLINGTON, VA.
Reliability programs for nonelectronic designs, volume 2
[AD-A133625] 05 p0689 N84-14528
Reliability programs for nonelectronic designs, volume 1
[AD-A133624] 05 p0689 N84-14529
EAGLE TECHNOLOGY, INC., ORLANDO, FLA.
Cost-effective and efficient maintenance training devices: A user accepted design process
[AD-P003456] 21 p3509 N84-32233
EARTH SATELLITE CORP., CHEVY CHASE, MD.
Study of LANDSAT-D thematic mapper performance as applied to hydrocarbon exploration
[E84-10003] 02 p0235 N84-11544
Contribution of LANDSAT-4 thematic mapper data to geologic exploration
[E84-10021] 02 p0237 N84-11557
Evaluation of LANDSAT-D Thematic Mapper performance as applied to hydrocarbon exploration
[E84-10154] 19 p3038 N84-29275
Evaluation of LANDSAT-4 Thematic Mapper data as applied to geologic exploration: Summary of results 20 p3213 N84-30412
EARTHQUAKE ENGINEERING RESEARCH INST., BERKELEY, CALIF.
Generalized plastic hinge concepts for 3D beam-column elements
[PB83-247961] 04 p0516 N84-13391
Earthquake response considerations of broad liquid storage tanks
[PB83-251215] 04 p0516 N84-13393
Inelastic analysis of piping and tubular structures
[PB83-249667] 04 p0550 N84-13623
ANSR-3: General purpose computer program for nonlinear structural analysis
[PB83-251330] 05 p0694 N84-14556
Seismic behavior of active beam links in eccentrically braced frames
[PB84-119676] 09 p1297 N84-18480
Optimal design of friction-braced frames under seismic loading
[PB84-119288] 09 p1335 N84-18714
Design considerations for shear links in eccentrically braced frames
[PB84-192186] 20 p3171 N84-30136
Hybrid modeling of soil-structure interaction in layered media
[PB84-192178] 20 p3171 N84-30137
Effects of bond deterioration on hysteretic behavior of reinforced concrete joints
[PB84-192020] 20 p3203 N84-30343
Local bond stress-slip relationships of deformed bars under generalized excitations: Experimental results and analytical model
[PB84-192848] 20 p3204 N84-30355
Interactive computer analysis methods for predicting the inelastic cyclic behaviour of structural sections
[PB84-192012] 20 p3205 N84-30358
EAST ANGLIA UNIV., NORWICH (ENGLAND).
Spatial patterns of climate and climatic change. Part 1: Summary report, appendices 1-5
[DE84-010253] 19 p3059 N84-29408
Seasonal climate scenarios for Europe and North America in a high-CO2, warmer world
[DOE/EV-10098/5] 23 p3801 N84-34104
EASTERN ENVIRONMENTAL RADIATION LAB., MONTGOMERY, ALA.
Analytical capability of the environmental radiation ambient monitoring system
[PB84-165818] 16 p2520 N84-26177
EASTMAN KODAK CO., ROCHESTER, N. Y.
Ultra lightweight mirror fabrication technology
[AD-A140019] 15 p2408 N84-25454
EATON CORP., BEVERLY, MASS.
Ionized cluster beam deposition
12 p1840 N84-21995
EATON CORP., SOUTHFIELD, MICH.
Development of a DC propulsion system for an electric vehicle
[NASA-CR-168306] 10 p1529 N84-20014
AC propulsion system for an electric vehicle, phase 2
[NASA-CR-168244] 21 p3390 N84-31514
EBASCO SERVICES, INC., NEW YORK.
Methodology for integration of HVDC links in large ac systems. Phase 1: Reference manual
[DE83-902302] 01 p0073 N84-10476
ECLECTECH ASSOCIATES, INC., NORTH STONINGTON, CONN.
Aids to navigation radar 1 principal findings: Performance in limited visibility of short range aids with passive reflectors
[AD-A137596] 11 p1604 N84-20507
ECODYNAMICS RESEARCH ASSOCIATES, INC., ALBUQUERQUE, N. MEX.
Adaptive grid generation using elliptic generating equations with precise coordinate controls
[AD-A137006] 10 p1570 N84-20290
ECOLE CENTRALE DE LYON (FRANCE).
Experimental techniques for free edges of turbulent flows 06 p0837 N84-15450
Asymmetric turbulent flows 06 p0837 N84-15451
The core region of channel flows 06 p0837 N84-15452
Experimental and theoretical studies of parietal viscous boundaries in a single stage transonic compressor 07 p0957 N84-16206
Nature of the surface and its effect on solid-state interactions 14 p2152 N84-23894
Instantaneous concentration and velocity measurements through laser visualization associated with a digital processing system 16 p2491 N84-25978
Annulus endwall boundary layer theory 19 p3023 N84-29167
ECOLE DES MINES, PARIS (FRANCE).
The effect of recycling on cast structures and the internal character of IN100 alloy: A laboratory study 23 p3705 N84-33485
ECOLE NATIONALE SUPERIEURE D'ELECTROCHIMIE ET D'DLECTROMETALLURGIE, CEDEX (FRANCE).
Research and development on high temperature water vapor electrolysis 11 p1739 N84-21348
ECOLE NATIONALE SUPERIEURE DE MECANIQUE ET D'AEROTECHNIQUE, POITIERS (FRANCE).
Integration of mathematical models: Experience of first Spacelab mission 10 p1444 N84-19431
ECOLE NATIONALE SUPERIEURE DE TECHNIQUES AVANCEES, PARIS (FRANCE).
Research activities in advanced techniques 16 p2565 N84-26456
ECOLE NATIONALE SUPERIEURE DES TELECOMMUNICATIONS, PARIS (FRANCE).
Performance evaluation of circuit switching for data networks
[ENST-C-83001] 07 p1056 N84-16842
Weighted decoding, by lattice, of linear block codes
[ENST-E-83008] 07 p1064 N84-16903
Adaptive machines: Examples of architecture, modeling and evaluation
[ENST-E-83009] 09 p1366 N84-18916
Bus interconnection in multiprocessor environment: The communication principle and the arbitration techniques
[ENST-E-83010] 10 p1482 N84-19689
Engineering programming at the Ecole Nationale Superieure des Telecommunications (ENST): Particularities and tendencies
[ENST-C-83004] 15 p2390 N84-25338
Activities report of the Computer Department
[ENST-D-8303] 16 p2542 N84-26314
Tools to aid in improving software quality: Application to a structural editor
[ENST-E-83013] 16 p2544 N84-26331
Low rate voice transmission by a classifying vocoder
[ENST-84E002] 19 p3010 N84-29083
Asymptotic laws of the tests and rupture estimators in a classical statistical model
[ENST-84C001] 19 p3094 N84-29653
Contribution to the low temperature study of MOS transistors (10K-77K)
[ENST-83E017] 19 p3113 N84-29781
ECOLE NORMALE SUPERIEURE, PARIS (FRANCE).
Contribution of satellite remote sensing to knowledge of the littoral from the mouth of the Loire to that of the Gironde (France) 03 p0396 N84-12584
ECOLE POLYTECHNIQUE, MONTREAL (QUEBEC).
Generation of surface-fitted coordinate grids
12 p1871 N84-22194
ECOLE POLYTECHNIQUE, PALAISEAU (FRANCE).
Kato's class field theory and abelian coverings of surfaces 14 p2210 N84-24266
Numerical diffraction by a uniform grid
[DE84-012861] 22 p3646 N84-33121
ECOLE POLYTECHNIQUE FEDERALE DE LAUSANNE (SWITZERLAND).
Activities in hydraulics 02 p0235 N84-11542
Aeroelasticity in turbomachine-cascades
[AD-A141905] 20 p3131 N84-29880
Two-dimensional and quasi three-dimensional experimental standard configurations for aeroelastic investigations in turbomachine-cascades
[AD-A141904] 20 p3196 N84-30297
ECOLE ROYALE MILITAIRE, BRUSSELS (BELGIUM).
Aero/thermodynamic and acoustic considerations in the design of test-beds for turbojets and turbofans 16 p2452 N84-25725
Evaluation of the gravity relevance on bone stresses by in vivo measurements 23 p3808 N84-34148
ECOLOGICAL ANALYSTS, INC., SPARKS, MD.
Survey of water quality and flow in Maryland coastal zone streams: A data report
[PB83-249375] 04 p0556 N84-13660
ECONOMIC ASSESSMENT SERVICE, LONDON (ENGLAND).
Methanol production from natural gas or coal
[DE83-901909] 01 p0053 N84-10340
ECONOMIC RESEARCH SERVICE, WASHINGTON, D. C.
Search command for character strings and words in computer files on CMS (Conversational Monitor System)
[PB84-201243] 22 p3639 N84-33068
ECOSYSTEMS INTERNATIONAL, INC., CROFTON, MD.
Railroad safety program, task 2
[NASA-CR-173598] 16 p2569 N84-26483
ECTON CORP., DAYTON, OHIO.
Development of a high efficiency compressor/expander for an air cycle air conditioning system
[AD-A130976] 02 p0229 N84-11502
EDGERTON, GERMESHAUSEN AND GRIER, INC., GOLETA, CALIF.
Large-area mercuric iodide photodectors
[DE83-013035] 03 p0441 N84-12898
Computer optimization of a linac injector trajectory
[DE84-005034] 15 p2408 N84-25456
Resonance ionization spectroscopy measurement of the vapor pressure of several molecular species
[DE84-010656] 21 p3409 N84-31624
EDGERTON, GERMESHAUSEN AND GRIER, INC., IDAHO FALLS, IDAHO.
Research needs for the use of polymer coatings for corrosion protection
[DE83-015443] 01 p0051 N84-10328
Measurement of two-phase flow velocity using a laser Doppler anemometer
[DE83-013522] 01 p0082 N84-10531
Development of an engineering-scale nuclear test of a solid-breeder fusion-blanket concept
[DE83-016861] 01 p0151 N84-10992

Method for evaluating operator inputs to digital controllers
[DE83-013521] 02 p0269 N84-11763
Method in the generation of a real-time interactive display
[DE83-013523] 02 p0274 N84-11789
Core graphics user's manual
[DE83-013206] 02 p0274 N84-11791
APPLIB user's manual
[DE83-016238] 02 p0274 N84-11794
Tensile and low-cycle fatigue measurements on cross-rolled tungsten at 1505 K
[DE84-000805] 04 p0499 N84-13273
Comparison of compression properties and swelling of beryllium irradiated at various temperatures
[DE84-000597] 04 p0500 N84-13277
Method of operator splitting or fractional steps and its applications to fluid-dynamic modelling
[DE84-000800] 04 p0534 N84-13511
Thermal and hydraulic performance of a sieve-tray direct-contact heat exchanger
[DE84-000663] 04 p0537 N84-13531
Comparison of fracture-toughness measurements from ferritic-steel compact-tension and surface-flawed specimen
[DE84-000895] 06 p0804 N84-15240
Available energy method for evaluating thermodynamic performance of heat pump systems
[DE84-005188] 10 p1494 N84-19766
Comparison of predicted versus experimentally-determined stresses for crack initiation of surface flaws in a 304 stainless steel and a ferritic steel
[DE84-005481] 11 p1634 N84-20680
Test and evaluation of radioactively contaminated transducers and transmitters
[AD-P002676] 11 p1657 N84-20813
Instrument failure detection in nonlinear systems
[DE84-005306] 11 p1661 N84-20838
Preliminary performance estimates and value analyses for binary geothermal power plants using ammonia-water mixtures as working fluids
[DE84-006124] 11 p1674 N84-20921
CORE graphics users manual, revision 1
[DE84-004235] 11 p1708 N84-21136
FORTRAN 5 cross-reference
[DE84-006438] 11 p1709 N84-21143
Emacs primer
[DE84-005482] 11 p1710 N84-21144
Assessment of ceramic materials technology for heat exchangers
[DE84-005748] 12 p1802 N84-21748
Development of holographic interferometry for welding arc analysis
[DE84-005454] 13 p1994 N84-22940
Joining silicon nitride based ceramics: A technical assessment
[DE84-011356] 20 p3164 N84-30092
FORTRAN 8x: The scientific programming language of the future
[DE84-012526] 20 p3274 N84-30787
Use of surface and thin film analysis techniques to study metal-organic and metal-polymer interaction
[DE84-012542] 21 p3361 N84-31321
Dehydration of aluminum chloride hexahydrates: A technical assessment
[DE84-013086] 21 p3362 N84-31328
Surface modification and coatings: A technical assessment
[DE84-012483] 21 p3372 N84-31396
Survey and assessment of heat of reaction type chemical heat pumps
[DE84-010988] 21 p3401 N84-31576
Instrumentation for real-time ultrasonic sensing of arc welding characteristics
[DE84-012536] 21 p3414 N84-31649
Real-time ultrasonic sensing of arc welding processes
[DE84-005031] 21 p3415 N84-31657
Enhanced Fourier algorithms for ultrasonic crack characterization
[DE84-012544] 21 p3423 N84-31714
Data base management system of the National Low-Level Radioactive Waste Management Program
[DE84-012789] 21 p3519 N84-32291
Practical writing and editing techniques
[DE84-012642] 21 p3519 N84-32294
Terminal oversight: The editor and the word processor
[DE84-012648] 21 p3519 N84-32295
Processing and consolidation of rapidly solidified alloys: A technology assessment
[DE84-014673] 22 p3557 N84-32523
New techniques for adjusting reference factors
[DE84-012649] 22 p3675 N84-33300
Preliminary assessment of the velocity pump reaction turbine as a geothermal total-flow expander
[DE84-014749] 23 p3791 N84-34043

EDGERTON, GERMESHAUSEN AND GRIER, INC., LAS VEGAS, NEV.
Aerial radiological survey of Area 11, Nevada Test Site
[DE84-000440] 04 p0554 N84-13650

EDGERTON, GERMESHAUSEN AND GRIER, INC., SALEM, MASS.
High voltage, low inductance hydrogen thyratron study program, phase 5
[DE84-000627] 10 p1487 N84-19721

EDGERTON, GERMESHAUSEN AND GRIER, INC., SAN RAMON, CALIF.
Development of long-length wire filament strain gages
[DE84-011543] 21 p3406 N84-31605

EDGERTON, GERMESHAUSEN AND GRIER, INC., SANTA BARBARA, CALIF.
Interactive modeling of scintillation pulses by visual overlay of computed pulse shapes with the raw data
[DE83-012668] 01 p0124 N84-10805

EDINBURGH UNIV. (SCOTLAND).
The behaviour of the 3.28 micron dust feature in NGC 2024 16 p2571 N84-26498
The behaviour of the 3.28 micron dust feature in NGC 2024 18 p2949 N84-28696

EDUCATIONAL TESTING SERVICE, PRINCETON, N. J.
An investigation of methods for reducing sampling error in certain IRT (Item Response Theory) procedures
[AD-A133848] 05 p0739 N84-14853
Comparison of IRT observed-score and true-score equatings
[AD-A133871] 06 p0891 N84-15791
New approaches to robust confidence intervals for location: A simulation study
[AD-A142248] 19 p3094 N84-29646
Speculations on the future of test design
[AD-A142662] 20 p3263 N84-30699

EEG SYSTEMS LAB., SAN FRANCISCO, CALIF.
Neurocognitive pattern analysis
[AD-A131302] 01 p0114 N84-10740
Single trial brain electrical patterns of an auditory and visual perceptuomotor task
[AD-A135545] 09 p1362 N84-18899

EG & G WASHINGTON ANALYTICAL SERVICES CENTER, INC., RIVERDALE, MD.
Characterization of surface reflectance variation effects on remote sensing 12 p1832 N84-21944

EIC, INC., NEWTON, MASS.
High energy density lithium primary cells using nitrogen containing polymer positives
[AD-A137377] 10 p1529 N84-20018
Moderate temperature rechargeable NaNiS2 cells
11 p1744 N84-21376
Variable transmittance electrochromic windows
16 p2517 N84-26158

EIC, INC., NORWOOD, MASS.
Long cycle life secondary lithium cells utilizing tetrahydrofuran
[AD-A140762] 17 p2723 N84-27331
Schottky barrier photoelectrodes with a variable barrier height
[AD-A141813] 19 p3111 N84-29765

EIDGENOESSISCHE TECHNISCHE HOCHSCHULE, ZURICH (SWITZERLAND).
Superconducting ground state of a strongly interacting electron system: UBe13
[DE84-001708] 06 p0923 N84-16003
Analysis of parametrically excited large vibration systems
[AD-A143283] 22 p3611 N84-32879
Structural description of a LANDSAT Thematic Mapper (TM) scene for improved region-based classification
23 p3766 N84-33873
The potential of low dose computed tomography in assessing space flight induced bone loss
23 p3807 N84-34141
Space laser applications in geophysics
24 p3903 N84-34719
Development of a general model of the car drivers eye movement sequences and effects of subject and environmental variables
[AD-A144180] 24 p3936 N84-34915
The nitrogen abundance in WC stars
24 p3977 N84-35192
Two density components in symbiotic stars
24 p3979 N84-35208

EIDGENOESSISCHES FLUGZEUGWERK, EMMEN (SWITZERLAND).
Comparative force measurements on half and whole models of a heavy lift wing in the large wind tunnel Emmen
[F/W-50-1596] 10 p1422 N84-19301

EISCAT SCIENTIFIC ASSOCIATION, KIRUNA (SWEDEN).
Morphology of the scattering target: Fresnel and turbulent mechanisms 17 p2684 N84-27067
Spectral characteristics of the return
17 p2685 N84-27095
Interpretation of radar returns from clear air: Discrimination against clutter 17 p2685 N84-27096
Origin of refractive index fluctuations in the mesosphere as opposed to the stratosphere and troposphere
17 p2686 N84-27101
Techniques for measurements of horizontal and vertical velocities 17 p2686 N84-27104
Determination of vertical and horizontal wavelengths of gravity waves 17 p2688 N84-27119
Parametrization of Fresnel returns
17 p2689 N84-27124
Relationship of strength of turbulence to received power 17 p2689 N84-27126
Capabilities and limitations of EISCAT as an MST radar 17 p2690 N84-27129
Correlation methods 17 p2695 N84-27167

EIU INFORMATICS, LONDON (ENGLAND).
Evaluation of a five node videoconference system and shared graphics workspace - U.S. Department of Defense, Washington, D.C.
[AD-A136483] 09 p1299 N84-18491

ELECTRA MFG. CO., INDEPENDENCE, KANS.
Aircraft seat fire blocking layers. Effectiveness and benefits under various scenarios
[AD-A140796] 17 p2603 N84-26681

ELECTRIC POWER RESEARCH INST., PALO ALTO, CALIF.
Battery lifetime prediction by pattern recognition application to lead-acid battery life-cycling test data
[AD-A133281] 06 p0829 N84-15397
Biological effects from electric fields associated with high voltage tranamission lines
[DE84-005498] 12 p1864 N84-22143

ELECTRICAL RESEARCH ASSOCIATION, LEATHERHEAD (ENGLAND).
Investigation of the RF properties of carbon fibre composite materials
[AD-A140261] 16 p2461 N84-25774
Corrosion of aluminium caused by alternating current
[BLL-ERA-TRANS-2920] 17 p2621 N84-26776
Evaluation of the effect of non-metallic inclusions in steel electrodes on the frequency of flashbacks in mercury-arc rectifiers
[BLL-ERA-TRANS-3002/23] 17 p2662 N84-26982

ELECTRICITE DE FRANCE, CHATOU.
Investigation of a rainwater flow and temperature measuring device in a moist atmosphere refrigerant
[HT-31.82.11] 09 p1317 N84-18602

ELECTRICITY COUNCIL, LONDON (ENGLAND).
Examination of the electrochemical behaviour of titanium in the LiCl-KCl melt
[BLL-OA-TRANS-3010-(6196.3)]
01 p0042 N84-10273
On the electrochemical precipation of titanium coatings
[BLL-OA-TRANS-3028-(6196.3)]
01 p0043 N84-10274
The cathodic polarization of nickel during precipitation from pure solutions without additions
[BLL-OA-TRANS-3004-(6196.3)]
01 p0043 N84-10275
The cathodic polarization of nickel during precipitation from pure solutions without additions
[BLL-OA-TRANS-3003-(6196.3)]
01 p0043 N84-10276
The effect of the structure of metallo-organic complexes on the electrolytic precipitation of titanium and niobium from nonaqueous electrolytes
[BLL-OA-TRANS-3070-(6196.3)]
04 p0497 N84-13259
The electrodeposition of titanium coatings
[BLL-OA-TRANS-3057-(6196.3)]
04 p0497 N84-13260
Methods in competition with electroplating
[BLL-OA-TRANS-3037-(6196.3)]
06 p0800 N84-15213
Diffusion films produced by heat treatment of electroplated coatings
[BLL-OA-TRANS-3082-(6196.3)]
06 p0804 N84-15237
Potentiostatic investigation of the kinetics of the breakdown of the passivity of aluminium in aqueous medium
[BLL-OA-TRANS-3066-(6196.3)]
06 p0804 N84-15238
Choice of a melting installation for aluminum alloy
[BLL-OA-TRANS-3095-(6196.3)]
06 p0804 N84-15239

ELECTRO-OPTICS CONSULTANTS, INC., HUNTSVILLE, ALA.
Color film preservation system: Breadboard development
[NASA-CR-171099] 19 p3026 N84-29194

ELECTROCHEM INDUSTRIES, INC., CLARENCE, N.Y.
Characterization of open circuit voltage and capacity as a function of time
23 p3736 N84-33673
ELECTROCHEMICAL TECHNOLOGY CORP., SEATTLE, WASH.
Development of multicomponent transport theory and transport data for membranes in concentrated electrolytes
[DE84-001846] 04 p0495 N84-13249
Determination of the effect of composition, structure and electrochemical mass transport properties on adhesion and corrosion inhibition of paint films
[AD-A138487] 12 p1801 N84-21746
ELECTROMAGNETIC COMPATIBILITY ANALYSIS CENTER, ANNAPOLIS, MD.
Interference measurements on amplitude compandored single sideband (ACSB) land mobil radio
[PB84-123645] 10 p1484 N84-19702
ELECTROMAGNETIC SYSTEMS LABS., INC., SUNNYVALE, CALIF.
Multiple source DF (Direction Finding) signal processing: An experimental system
[AD-P003515] 21 p3385 N84-31483
ELECTRONIC SYSTEMS DIV., HANSCOM AFB, MASS.
Derated application of parts for (Electronic System Division) systems development
[AD-A133880] 05 p0674 N84-14429
AN/TPN-19 improvements program management plan
[AD-A140728] 17 p2605 N84-26690
Microbus
[AD-A132338] 18 p2833 N84-27984
ELECTRONIC TECHNIQUES, INC., FORT COLLINS, COLO.
SCPP (Sierra Cooperative Pilot Project) forecasting support, volume 1
[PB84-107911] 08 p1194 N84-17782
ELECTRONICS ENGINEERING GROUP (1842ND), SCOTT AFB, ILL.
Prototype fiber optic system to remote TRACALS radar
[AD-A132073] 03 p0360 N84-12341
Feasibility of remoting BRITE 2 via fiber optics
[AD-A135858] 09 p1389 N84-19071
ELECTRONICS RESEARCH LAB., ADELAIDE (AUSTRALIA).
Atmospheric IR transmission data for a temperate maritime environment
[AD-A131035] 01 p0147 N84-10968
A seabome navigation trial utilising a Differential Omega system
[ERL-0295-TM] 17 p2604 N84-26684
The use of overlapped subarray techniques in simultaneous receive beam linear arrays
[AD-P003501] 21 p3383 N84-31469
A software scheme for managing magnetic tape storage space
[AD-A142847] 21 p3465 N84-31969
The microcode for the control processor of the ARO (array oriented processor) array processor
[AD-A143765] 23 p3813 N84-34175
Multi-sensor surveillance 24 p3914 N84-34780
Optical processing, its role in surveillance
24 p3915 N84-34788
ELECTRONIQUE SERGE DASSAULT, ST. CLOUD (FRANCE).
IDA: Computer-aided testing of real-time software
05 p0722 N84-14736
Practical impact of an integrated workbench on the quality assurance of embedded software
05 p0723 N84-14741
Towards a modularity of software conceived for the requirement of the user
06 p0769 N84-15040
ELECTROTECHNICAL LAB., IBARAKI (JAPAN).
Superconducting properties of Nb3Sn multifilamentary wires fabricated by internal tin process
[DE83-018189] 06 p0925 N84-16011
Energy loss of 24.8-MeV electrons by interacting with thick layers of C, Al, Cu, and Pb
[ETL-836] 13 p2046 N84-23277
ELEKTRONIK-SYSTEM G.M.B.H., MUNICH (WEST GERMANY).
CADAS: A computer aided design tool for avionic systems
06 p0773 N84-15065
Satellite aided navigation (INNAVSAT)
[BMFT-FB-W-84-003] 19 p2962 N84-28772
ELETTRONICA SAN GEORGIO-ELSAG S.P.A., GENOA (ITALY).
Technical addendum to the study: ERS-1 Mission, Fucino Station. SAR processor based upon EMMA architecture
[ERI-171] 12 p1809 N84-21791
ELLIOTT-AUTOMATION SPACE AND ADVANCED MILITARY SYSTEMS LTD., CAMBERLEY (ENGLAND).
Human factors aspects of C3 systems
[PP-119] 13 p2023 N84-23115
Sensible heat storage in water
[PP-132] 18 p2868 N84-26206
An appraisal of straight bladed vertical and horizontal windmills
[PP-127] 18 p2876 N84-26264
ELLIOTT-AUTOMATION SPACE AND ADVANCED MILITARY SYSTEMS LTD., FRIMLEY (ENGLAND).
Reducing risk in seaways 08 p1102 N84-17163
Achievement of electromagnetic compatibility in weapon systems 08 p1142 N84-17430
EASAMS architecture for management and control systems 08 p1207 N84-17871
ATE, ATLAS and the microprocessor
08 p1207 N84-17872
ELOPTRO AANLEG VAN KENTRON, KEMPTRON PARK (SOUTH AFRICA).
The influence of weakly polarized surfaces on different kinds of thin layer systems 06 p0815 N84-15309
ELORET CORP., MOUNTAIN VIEW, CALIF.
In-situ TEM investigations of graphic-epitaxy and small particles
[NASA-CR-166593] 21 p3503 N84-32201
ELTECH SYSTEMS, INC., CHARDON, OHIO.
Oxygen electrodes for energy conversion and storage
[DE84-003919] 07 p0999 N84-16476
ELTRON RESEARCH, INC., NAPERVILLE, ILL.
Solar-assisted hydrogen generation by photoelectrocatalysis: Electric birefringence and ellipsometric spectroscopy of the semiconductor/electrolyte interface
[PB84-169804] 15 p2288 N84-24731
EMAILLIT-PRODERITE CAPE (PROPRIETARY) LTD. (SOUTH AFRICA).
Welding of thermoplastics 09 p1292 N84-18437
EMBRY-RIDDLE AERONAUTICAL INST., DAYTONA BEACH, FLA.
Optimization for vibration isolation
[AD-A137895] 11 p1668 N84-20886
EMMANUEL COLL., BOSTON, MASS.
Geomagnetic pulsations-production/interpretation
[AD-A131448] 02 p0249 N84-11629
Technique for producing a coherent sum of the data from P78-1, F2, and F4 satellites
[AD-A131965] 03 p0340 N84-12210
Modelling of ionospheric irregularities and total electron content
[AD-A141236] 18 p2880 N84-28284
EMORY UNIV., ATLANTA, GA.
A portable, microprocessor controlled, multichannel fluorometer for marine analysis
[AD-A130161] 01 p0083 N84-10542
ENDEVCO, SAN JUAN CAPISTRANO, CALIF.
Testing techniques involved with the development of high shock acceleration sensors
[AD-P002693] 11 p1660 N84-20828
ENERGETICS, INC., COLUMBIA, MD.
Survey and analysis of materials research and development at selected federal laboratories
[DE84-008904] 20 p3145 N84-29967
ENERGIECONSULTING HEIDELBURG (WEST GERMANY).
Heating with wind energy, part B
[BMFT-FB-T-83-131-PT-B] 03 p0405 N84-12651
ENERGY AND ENVIRONMENTAL RESEARCH CORP., IRVINE, CALIF.
EPA (Environmental Protection Agency) complex terrain model development description of a computer data base from small hill impaction study no. 1, Cinder Cone Butte, Idaho
[PB84-161439] 14 p2182 N84-24072
ENERGY CONCEPTS CO., ANNAPOLIS, MD.
Oxygen production by the moltox process
[DE83-012847] 02 p0190 N84-11237
ENERGY INFORMATION ADMINISTRATION, WASHINGTON, D.C.
Short-term energy outlook. Volume 2. Methodology
[DE83-016853] 03 p0405 N84-12648
ENERGY MATERIALS CORP., LANCASTER, MASS.
Low angle silicon sheet growth: A review of progress, problems and promise 18 p2938 N84-28631
ENERGY, MINES AND RESOURCES CANADA, OTTAWA (ONTARIO).
A preliminary assessment of LANDSAT-4 Thematic Mapper data 20 p3208 N84-30377
ENERGY RESEARCH CORP., DANBURY, CONN.
Evaluation of gas-cooled pressurized phosphoric acid fuel cells for electric utility power generation
[NASA-CR-168298] 15 p2362 N84-25169
Development of molten carbonate fuel cell technology
[DE84-004856] 15 p2364 N84-25183
Full scale phosphoric acid fuel cell stack technology development
[NASA-CR-174660] 16 p2518 N84-26165
ENERGY SYSTEMS GROUP, INC., ATLANTA, GA.
Simplified method for estimating the cooling loads of passive solar systems
[DE84-009474] 20 p3235 N84-30538
SLR-PLUS version 1.0 reference manual
[DE84-009180] 20 p3274 N84-30781
ENERGY TECHNOLOGY ENGINEERING CENTER, CANOGA PARK, CALIF.
Overview of Roof Pond Systems
16 p2516 N84-26150
ENERTEC, VELIZY (FRANCE).
Study of future recorders for ESA
[ESA-CR(P)-1864] 16 p2496 N84-26018
ENGELHARD CORP., MENLO PARK, CALIF.
Develop and test fuel cell powered on-site integrated total energy systems. Phase 3: Full-scale power plant development
[NASA-CR-168294] 04 p0557 N84-13672
ENGELHARD INDUSTRIES, INC., EDISON, N.J.
Develop and test fuel cell powered on-site integrated total energy system
[NASA-CR-168159] 02 p0241 N84-11581
Develop and test fuel cell powered on-site integrated total energy system
[NASA-CR-168239] 04 p0557 N84-13673
ENGELHARD MINERALS AND CHEMICALS CORP., EDISON, N. J.
Develop and test fuel cell powered on-site integrated total energy systems
[NASA-CR-174714] 17 p2723 N84-27329
ENGINEERING ANALYSIS, INC., HUNTSVILLE, ALA.
Atmospheric turbulence simulation for Shuttle orbiter
[NASA-CR-171013] 13 p1938 N84-22602
ENGINEERING-ANALYTICAL DYNAMICS CORP., TRAFFORD, PA.
Nonlinear coupling responses to variable frequency excitations 10 p1515 N84-19920
Simple approximate models for a class of structures
10 p1515 N84-19921
ENGINEERING AND ECONOMICS RESEARCH, INC., VIENNA, VA.
A conceptual study of automatic and semi-automatic quality assurance techniques for round image processing
[NASA-CR-170610] 02 p0230 N84-11508
Geoscience-related research needs for geothermal energy technology
[DE84-001837] 05 p0704 N84-14622
An Attached Payload Operations Center (APOC) at the Goddard Space Flight Center (GSFC), volume 2
[NASA-CR-175160-VOL-2] 08 p1108 N84-17203
Supplement to the technical assessment of geoscience-related research for geothermal energy technology
[DE84-002373] 10 p1530 N84-20020
Startab Ground System guidelines document
[NASA-CR-175192] 10 p1592 N84-20435
An Attached Payload Operations Center (APOC) at the Goddard Space Flight Center (GSFC), volume 1
[NASA-CR-175160] 11 p1620 N84-20605
National airspace review benefits and costs
[FAA-AT-84-1] 19 p2961 N84-28765
National Airspace Review: Implementation plan
[AD-A145379] 21 p3327 N84-31107
ENGINEERING DEVELOPMENT ESTABLISHMENT, MARIBYRNONG (AUSTRALIA).
Synchronization technique of data recorded on a multichannel tape recorder
[AD-A139570] 14 p2148 N84-23868
ENGINEERING SCIENCES DATA UNIT, LONDON (ENGLAND).
Endurance of steel lugs with clearance-fit pins (tensile mean stress)
[ESDU-82022] 07 p1011 N84-16559
Buckling of rectangular specially orthotropic plates
[ESDU-80023] 07 p1014 N84-16577
Stress intensity factors in lugs (through-thickness cracks)
[ESDU-81029] 07 p1014 N84-16579
Buckling of flat rectangular orthotropic plates - computer program. (Application to laminated composite plates)
[ESDU-81047] 07 p1014 N84-16580
Flexibilities of and stresses in thin unpressurised pipe bends with flanged ends under in-plane bending: Influence of bend angle
[ESDU-81041] 07 p1015 N84-16581
Validated Engineering Data Index, 1983 - 1984
12 p1804 N84-21758
ENGINEERING SYSTEM INTERNATIONAL, RUNGIS (FRANCE).
Modal deformations and stresses
[ED-81-343/RD] 09 p1334 N84-18712
Study of analysis methods concerning launch vehicle and spacecraft structural interaction
[ED-80-295] 12 p1778 N84-21605

Survey of techniques employed in the analysis of rocket motor solid propellants
[ED-80-292] 12 p1782 N84-21630

ENGINS MATRA, TOULOUSE (FRANCE).
The role of onboard intelligence and of orbital servicing in the increase of satellite lifetime
15 p2266 N84-24605

ENSCO, INC., SPRINGFIELD, VA.
Description of an automatic seismic measurements package: Analysis and design goals
[AD-A132067] 03 p0407 N84-12666

ENTE NAZIONALE PER L'ENERGIA ELETTRICA, ROME (ITALY).
Improving frequency utilization efficiency in time and space with isofrequency multiple access networks in private systems of cellular type
10 p1477 N84-19648
The RIAM project 10 p1477 N84-19653
Experimental measurements of traffic and radio disturbances in Ente Nazionale per l'Energia Elettrica's (ENEL) mobile radio networks 10 p1478 N84-19657

ENTECH CORP., DALLAS-FORT WORTH AIRPORT, TEX.
A transmittance-optimized, point-focus Fresnel lens solar concentrator 18 p2871 N84-28228

ENTROPY LTD., LINCOLN, MASS.
Seasonal precipitation forecasting with a 6 to 7 month lead time in the Pacific Northwest using an information theoretic model
[PB84-207018] 22 p3626 N84-32979

ENVIROGENICS SYSTEMS CO., EL MONTE, CALIF.
Protocol for the collection and analysis of volatile POHCs (Principal Organic Hazardous Constituents) using VOST (Volatile Organic Sampling Train)
[PB84-170042] 15 p2338 N84-25035

ENVIRONMENTAL DESIGN AND PLANNING, INC., BOSTON, MASS.
Value of flow calibration for decision making in infiltration/inflow studies
[PB83-259739] 05 p0682 N84-14483

ENVIRONMENTAL HEALTH LAB., WIESBADEN, APO NEW YORK 09220.
Industrial hygiene data for F-16 aircraft refueling inside closed aircraft shelters. Supplementary
[AD-A138364] 12 p1865 N84-22154
An industrial hygiene evaluation of F-16 aircraft refueling inside closed aircraft shelters
[AD-A138501] 12 p1866 N84-22157

ENVIRONMENTAL MONITORING AND SUPPORT LAB., CINCINNATI, OHIO.
Compliance monitoring of purgeable organics with mass spectrometry
[PB84-157916] 14 p2124 N84-23733
Laboratory evaluation of tunable atomic line molecular spectrometers for benzene analysis
[PB84-177765] 17 p2672 N84-27032

ENVIRONMENTAL MONITORING AND SUPPORT LAB., RESEARCH TRIANGLE PARK, N. C.
Recent advances in EPA's (Environmental Prog monitoring and methods development research
[PB83-231209] 01 p0115 N84-10743

ENVIRONMENTAL PROTECTION AGENCY, ADA, OKLA.
Velocity plots and capture zones of pumping centers for ground-water investigations
[DE83-016618] 03 p0401 N84-12624

ENVIRONMENTAL PROTECTION AGENCY, ANN ARBOR, MICH.
EPA evaluation of the Atomized Vapor Injector device under Section 511 of the Motor Vehicle Information and Cost Savings Act
[PB83-214684] 01 p0163 N84-11072
EPA evaluation of the Malpassi Filter King device under Section 511 of the Motor Vehicle Information and Cost Savings Act
[PB83-214700] 01 p0163 N84-11073
Controlling emissions from light-duty motor vehicles at high elevations. A report to Congress
[PB83-204883] 01 p0164 N84-11074
Low mileage catalyst evaluation with a methanol-fueled Rabbit
[PB83-241620] 02 p0230 N84-11506
A study of the relationship between exhaust emissions and fuel economy
[PB83-235564] 03 p0385 N84-12506
Humidity measurement comparison tests: Dew point hygrometer versus wet bulb psychrometer
[PB83-237487] 04 p0539 N84-13546
An analysis of carbon monoxide emissions as a function of ambient temperature and vehicle parameters
[PB84-103829] 08 p1167 N84-17599
EPA (Environmental Protection Agency) evaluation of the Gyroscopic Wheel Cover device under section 511 of the Motor Vehicle Information and Cost Savings Act
[PB84-143577] 12 p1921 N84-22514
Anti-tampering and anti-misfueling programs to reduce in-use emissions from motor vehicles
[PB84-185222] 20 p3238 N84-30559

ENVIRONMENTAL PROTECTION AGENCY, ATHENS, GA.
Application of a spray deposition method for reversed phase liquid chromatography-mass spectrometry
[PB84-159029] 14 p2124 N84-23730

ENVIRONMENTAL PROTECTION AGENCY, CINCINNATI, OHIO.
Construction and evaluation of a flow test stand
[PB84-201581] 22 p3615 N84-32906

ENVIRONMENTAL PROTECTION AGENCY, CORVALLIS, OREG.
Impact of enhanced solar UV-B radiation upon the marine ecosystem
[PB83-247411] 04 p0560 N84-13694

ENVIRONMENTAL PROTECTION AGENCY, GROSSE ILE, MICH.
Dynamic mass balance of PCB (polychlorinated biphenyls) and suspended solids in Saginaw Bay: A case study
[PB83-250308] 04 p0561 N84-13699
Modeling of water quality in Lake Michigan and the effect of the anomalous ice cover of 1976 - 1977
[PB84-167667] 16 p2511 N84-26115

ENVIRONMENTAL PROTECTION AGENCY, RESEARCH TRIANGLE PARK, N.C.
Pulmonary dosimetry of nitrogen dioxide in animals and man
[PB83-243394] 03 p0414 N84-12711
Performance specifications for continuous monitoring of total reduced sulfur emissions (proposed July 20, 1981, 46 FR 37287), summary of comments and responses
[PB83-251009] 04 p0561 N84-13696
Review of the National Ambient Air Quality Standards for sulfur oxides: Assessment of scientific and technical information
[PB84-102920] 08 p1184 N84-17711
Air pollution effects on terrestrial ecosystems
[PB84-128313] 08 p1184 N84-17712
EPA (Environmental Protection Agency) model development for stable plume impingement on elevated terrain obstacles
[PB84-130491] 10 p1533 N84-20038
Progress in the prevention and control of air pollution in 1980 and 1981
[PB84-126788] 11 p1676 N84-20939
Relation of urban model performance to stability
[PB84-130418] 11 p1676 N84-20940
Proceedings of the National Symposium on Recent Advances in Pollutant Monitoring of Ambient Air and Stationary Sources
[PB84-148345] 12 p1845 N84-22031
Assessment of ozone as a surrogate for other products of atmospheric photochemical reactions
[PB84-155852] 14 p2177 N84-24042
Acidification of rain by the oxidation of dissolved SO2 and the absorption of HNO3
[PB84-168368] 15 p2367 N84-25200
Air pollution effects on aquatic ecosystems: Summary of a symposium
[PB84-185214] 20 p3239 N84-30562
US EPA (Environmental Protection Agency) regional oxidant model, background and overview
[PB84-201680] 21 p3437 N84-31806
Urban scale variations of turbulence parameters and fluxes
[PB84-209113] 22 p3626 N84-32980
Diffusion modeling with convective scaling and effects of surface inhomogeneities
[PB84-210053] 22 p3627 N84-32981

ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C.
Can we delay a greenhouse warming
[DE84-900198] 07 p1027 N84-16658
Acid rain bibliography
[PB84-138940] 11 p1677 N84-20941
EPA (Environmental Protection Agency) journal holdings report, 1983
[PB84-194877] 21 p3520 N84-32304

ENVIRONMENTAL RESEARCH AND TECHNOLOGY, INC., CONCORD, MASS.
Study of the combined use of data from satellite thermal infrared and microwave sensors for soil moisture detection
[PB83-252734] 05 p0698 N84-14582
EPA (Environmental Protection Agency) model development for stable plume impingement on elevated terrain obstacles
[PB84-130491] 10 p1533 N84-20038

ENVIRONMENTAL RESEARCH INST. OF MICHIGAN, ANN ARBOR.
An analysis of spectral discrimination between corn and soybeans using a row crop reflectance model
[E84-10008] 01 p0099 N84-10642
Multi-temporal analysis of LANDSAT imagery for bathymetry
[AD-A130648] 01 p0100 N84-10652
Investigation of radiometric properties of the LANDSAT-4 multispectral scanner
[E84-10013] 02 p0236 N84-11551
Study on extremizing adaptive systems and applications to synthetic aperture radars
[AD-A133945] 05 p0657 N84-14385
SAR calibration: A technology review
07 p0988 N84-16399
Study of spectral/radiometric characteristics of the thematic mapper for land use applications
[E84-10058] 07 p1020 N84-16615
Simulation of Thematic Mapper data for remote bathymetry
[AD-A136377] 09 p1337 N84-18728
Study on extremizing adaptive systems and applications to synthetic aperture radars
[AD-A137725] 11 p1643 N84-20744
Measurement of ocean surface winds by SEASAT synthetic aperture radar
[AD-A138392] 12 p1836 N84-21971
Study on spectral/radiometric characteristics of the Thematic Mapper for land use applications
[E84-10130] 15 p2357 N84-25140
Understanding and utilization of Thematic Mapper and other remotely sensed data for vegetation monitoring
[E84-10150] 16 p2508 N84-26096
Development of Great Lakes algorithms for the Nimbus-G coastal zone color scanner
[NASA-CR-173511] 17 p2711 N84-27258
Modeling of SAR signatures of shallow water ocean topography 17 p2718 N84-27302
Analysis of SEASAT SAR imagery collected during the JASIN experiment
[AD-A140584] 17 p2721 N84-27320
The use of satellite and aircraft SAR to detect and chart hazards to navigation
[AD-A141658] 19 p3041 N84-29296
Scan-angle and detector effects in Thematic Mapper radiometry 20 p3209 N84-30386
Thematic Mapper spectral dimensionality and data structure 20 p3209 N84-30387
Investigation of radiometric properties of LANDSAT-4 MSS 20 p3211 N84-30403
A description of the MIZEX 1984 remote sensing activities
[AD-A142296] 20 p3228 N84-30514
Summary of SAR (Synthetic Aperture Radar) ocean wave data archived at ERIM (Environmental Research Institute of Michigan)
[AD-A142620] 20 p3251 N84-30633
A SAR for real-time ice reconaissance
23 p3765 N84-33869
SAR measurement of sea ice properties during Marginal Ice Zone Experiment (MIZEX) 83
23 p3772 N84-33911
Analysis of bistatic SAR signatures
23 p3777 N84-33947
Digital processing and absolute calibration of a stripmap synthetic aperture radar 23 p3778 N84-33954

ENVIRONMENTAL RESEARCH LAB., ATHENS, GA.
Increased confidence in spectrum matching by use of a retention time library
[PB83-232090] 06 p0802 N84-15229
Hydrologic simulation program. FORTRAN: Development, maintenance and application
[PB84-168418] 16 p2511 N84-26114

ENVIRONMENTAL SCIENCES RESEARCH LAB., RESEARCH TRIANGLE PARK, N.C.
Research program for effects of acidic deposition on materials and cultural resources
[PB83-232074] 01 p0051 N84-10331
Atlas of source emission particles
[PB83-229013] 01 p0103 N84-10672
Atmospheric volatile hydrocarbon composition at five remote sites in Northwestern North Carolina
[PB84-177930] 17 p2620 N84-26768

ENVIRONMENTAL SYSTEMS RESEARCH INST., REDLANDS, CALIF.
Review and synthesis of problems and directions for large scale geographic information system development
[NASA-CR-166563] 10 p1525 N84-19988

ENVIROSPHERE CO., ATLANTA, GA.
Delineation of wetland boundaries using vegetation within the Altamaha River Basin of Georgia
[AD-A142590] 20 p3228 N84-30515

EPPLEY LAB., INC., NEWPORT, R.I.
Passive exposure of Earth radiation budget experiment components (A0147) 15 p2278 N84-24684
Status of solar measurements and data reduction for ERB-Nimbus 7 17 p2778 N84-27637

EPSILON LABS., INC., BURLINGTON, MASS.
A molecular identification device for individual sub-micron aerosols: Engineering breadboard device
[AD-A137139] 10 p1536 N84-20067
ERA LTD., LEATHERHEAD (ENGLAND).
An assessment of the reliability of edge connectors
[ERA-82-22] 13 p1985 N84-22888
Thermal endurance of silicone/glass sleeving by the cyclic electrical proof test method of IEC 216 (first report)
[ERA-82-91] 13 p1999 N84-22967
Thermal endurance of silicone/glass sleeving by the cyclic electrical proof test method of ICC 216 (second report)
[ERA-82-136] 13 p1999 N84-22968
Evaluation of microstrip radiators as feeds for reflector antenna
[ERA-83-0056] 23 p3732 N84-33655
ERASMUS UNIV., ROTTERDAM (NETHERLANDS).
Fast arithmetic operations on numbers and polynomials 08 p1224 N84-17992
Diophantine equations 08 p1225 N84-18004
Symmetric systems with semisimple structure algebra: The quaternionic case
[NASA-CR-173421] 13 p2034 N84-23193
ERLANGEN-NUREMBERG UNIV. (WEST GERMANY).
Influence of temperature on fracture behavior and mechanical properties of hot-pressed silicon nitride with different sintering aids
[BMFT-FB-T-83-166] 07 p0980 N84-16349
Thermal diffusion in glass melts
[BMFT-FB-W-83-033] 12 p1802 N84-21751
Instabilities and chaos in TV-optical feedback 14 p2237 N84-24422
Theses and remarks of future development of calculators 16 p2549 N84-26359
UV and optical spectroscopy of classical novae during outburst 24 p3979 N84-35202
UV and optical observations of the novalike object V3885 SGR 24 p3979 N84-35207
UV and optical spectroscopy of W Serpentis objects 24 p3980 N84-35212
ERNO RAUMFAHRTTECHNIK G.M.B.H., BREMEN (WEST GERMANY).
Phase A study for a test satellite for propagation and transmission experiments in the 20/30 GHz frequency band
[BMFT-FB-W-83-009] 03 p0362 N84-12355
Software quality assurance Spacelab experience and future trends 05 p0725 N84-14759
Integrity control of carbon fiber reinforced plastics structural elements, phase 1 report
[TB-TS-11-01/82-A] 09 p1289 N84-18416
Design aspects of TV-SAT/TDF-1 heat pipes 10 p1440 N84-19404
System aspects of the European Retrievable Carrier (EURECA) thermal control system 10 p1444 N84-19432
Thermal design optimization for spacecraft during transfer orbit 10 p1445 N84-19442
Eight years of in orbit experience with the HELIOS solar probe thermal control subsystem 10 p1446 N84-19445
OTS 2: Five years of thermal testing on a satellite in a geostationary orbit 10 p1446 N84-19446
System feasibility study on rendezvous and docking in transfer orbit, volume 1
[PV6-13/82-VOL-1] 12 p1776 N84-21588
System feasibility study on rendezvous and docking in transfer orbit, volume 2
[PRV6-13/82] 12 p1776 N84-21589
Control aspects as elaborated in space rendezvous simulations 15 p2268 N84-24616
The thermal design of the European complement of first Spacelab mission (FSLP)
[MBB-UR-645-83-O] 16 p2563 N84-26442
A review of the in-orbit thermal performance of Maritime Communications Satellite (MCS)-A
[MBB-UR-641-83-O] 16 p2563 N84-26443
Study report on a modular photovoltaic power supply system for space application
[BMFT-FB-W-84-010] 19 p2983 N84-28904
Detailed system studies on rendezvous and docking
[ERNO-RX-015-2/83] 23 p3697 N84-33427
Rendezvous and docking mission and navigation sensors 24 p3908 N84-34753
ERNST-MACH-INST., FREIBURG (WEST GERMANY).
Chemical and isotopic measurements of micrometeoroids by secondary ion mass spectrometry (A0187-2) 15 p2276 N84-24670
EROS DATA CENTER, SIOUX FALLS, S. DAK.
LANDSAT 4 investigations of thematic mapper and multispectral scanner applications
[E84-10017] 02 p0237 N84-11554
LANDSAT 4 investigations of thematic mapper and multispectral scanner applications
[E84-10006] 03 p0392 N84-12555
LANDSAT 4 investigation of thematic mapper and multispectral scanner applications
[E84-10075] 07 p1021 N84-16622
TM data available at EDC, and EDC TM data handling and processing plan 10 p1524 N84-19980
LANDSAT 4 investigations of Thematic Mapper and multispectral scanner applications
[E84-10100] 13 p2004 N84-23003
LANDSAT 4 investigations of Thematic Mapper and Multispectral Scanner applications
[E84-10152] 17 p2709 N84-27247
Geodetic accuracy of LANDSAT-4 Multispectral Scanner and Thematic Mapper data 20 p3211 N84-30399
ESDU INTERNATIONAL LTD., LONDON (ENGLAND).
Stress concentration factors. Axially loaded lugs with clearance-fit pins
[ESDU-81006] 07 p1014 N84-16578
The evaluation/validation process: Practical considerations and methodology for the evaluation of phenomenological data 07 p1086 N84-17064
ESSEN UNIV. (WEST GERMANY).
Experimental investigation concerning the feasibility of electrostatic precipitators at high pressures and temperatures
[BMFT-FB-T-83-201] 08 p1183 N84-17704
Self-pulsing and chaos in inhomogeneously broadened single-mode lasers 14 p2239 N84-24438
Investigations of the feasibility of fabric filters at high temperatures and pressures for an energy saving method of gas purification
[BMFT-FB-T-83-292] 15 p2286 N84-24718
ESSEX CORP., ALEXANDRIA, VA.
User-friendly software: The role of the user
[AD-P003489] 21 p3514 N84-32256
ESSEX CORP., HUNTSVILLE, ALA.
Analysis of large space structures assembly: Man/machine assembly analysis
[NASA-CR-3751] 04 p0488 N84-13208
Space telescope
[NASA-CR-170948] 06 p0936 N84-16097
Analysis and selection of a remote docking simulation visual display system
[NASA-CR-171148] 23 p3698 N84-33432
Development of robotics facility docking test hardware
[NASA-CR-171153] 23 p3698 N84-33433
EUROPEAN ASSOCIATION OF REMOTE SENSING LABS., PARIS (FRANCE).
Group Agromet Monitoring Project (GAMP), phase 1
[ESA-CR(P)-1769] 07 p1023 N84-16637
EUROPEAN CENTRE FOR MEDIUM-RANGE WEATHER FORECASTS, READING (ENGLAND).
Parameterization of the atmospheric boundary layer at ECMWF, appendix O 18 p2885 N84-28310
EUROPEAN OFFICE OF AEROSPACE RESEARCH AND DEVELOPMENT, FPO NEW YORK 09510.
Information technology and development series. Volume 2: Informatics and industrial development. Proceedings of the International Conference on Policies for Information Processing for Developing Countries
[AD-A130796] 01 p0162 N84-11063
The 16th European Conference on Laser Interaction With Matter, Book of Abstracts
[AD-A138316] 12 p1821 N84-21868
EUROPEAN ORGANIZATION FOR NUCLEAR RESEARCH, GENEVA (SWITZERLAND).
The performance of 16000 wire mini-drift MWPC system 06 p0912 N84-15922
EUROPEAN RESEARCH OFFICE, LONDON (ENGLAND).
Research report program of the US Army in Europe 07 p0944 N84-16122
EUROPEAN SOUTHERN OBSERVATORY, GARCHING (WEST GERMANY).
Performance of the ESO PDS 18 p2840 N84-28027
Plans for a fast image recording system at ESO 18 p2842 N84-28046
EUROPEAN SOUTHERN OBSERVATORY, MUNICH (WEST GERMANY).
Activities in astronomy
[ISSN-0531-4496] 20 p3319 N84-31067
EUROPEAN SPACE AGENCY, FRASCATI (ITALY).
Geometric performance: Line to line displacement analysis 10 p1524 N84-19983
Proceedings of the Fourth Meeting of the LANDSAT Technical Working Group (LTWG), volume 1
[LIB-PRO-0012-VOL-1] 15 p2357 N84-25144
The economics of computerized information dissemination 18 p2946 N84-28678
A preliminary analysis of LANDSAT-4 Thematic Mapper radiometric performance 20 p3208 N84-30379
TM failed detectors data replacement 20 p3208 N84-30382
Status of the ESA-Earthnet LANDSAT-4 TM ground processing chain 20 p3210 N84-30391
EUROPEAN SPACE AGENCY, MADRID (SPAIN).
The 1978 - 1984 fading of the Seyfert 1 galaxy F-9 24 p3972 N84-35149
IUE low dispersion spectra reference atlas 24 p3976 N84-35179
Flux variations of 88 Her through phase transition from far UV to visual 24 p3976 N84-35184
The outbursts of dwarf novae 24 p3979 N84-35204
The International Ultraviolet Explorer (IUE): Six years in orbit 24 p3981 N84-35224
EUROPEAN SPACE AGENCY, NOORDWIKJ (NETHERLANDS).
Leak detector for spacecraft testing with high accuracy 24 p3863 N84-34486
Accomodation of candidate laser communication links on selected spacecraft configurations 24 p3905 N84-34734
EUROPEAN SPACE AGENCY, PARIS (FRANCE).
Flight tests for a strapdown system (MSS): The results of a special flight test
[ESA-TT-818] 03 p0330 N84-12153
Spacecraft Vibration Testing Using Multi-Axis Hydraulic Vibration Systems
[ESA-SP-197] 03 p0339 N84-12197
The OTS: Fifth year in orbit 03 p0342 N84-12221
Layout of a SAR sensor for Spacelab and satellite. Part 1: Design considerations for fundamental SAR parameters
[ESA-TT-802] 03 p0343 N84-12224
L band satellite communication experiment in the Antartic
[ESA-TT-805] 03 p0362 N84-12356
Pulse signals in heterodyne and homodyne detection
[ESA-TT-809] 03 p0362 N84-12357
Y03: Prequalification of surface treatment. Measurement of laser reflecting power
[ESA-TT-791] 03 p0382 N84-12490
Remote Sensing Applications for Environmental Studies
[ESA-SP-188] 03 p0395 N84-12579
Contributions of remote sensing satellite tracking techniques to marine environment monitoring and marine applications 03 p0396 N84-12585
Two different aspects of phytoplankton bloom seen by satellite (CZCS) in the western English Channel 03 p0399 N84-12604
Observation of the Earth in the middle infrared
[ESA-TT-790] 03 p0402 N84-12629
Radar meteorology in cloud physics and radio wave propagation research
[ESA-TT-808] 03 p0412 N84-12695
Retroreflector YO3: Study of the optical properties of protected mirrors
[ESA-TT-789] 03 p0443 N84-12907
Active experiments in space
[ESA-SP-195] 05 p0634 N84-14172
Software engineering
[ESA-SP-199] 05 p0721 N84-14729
Integrated Software Engineering Facilities (ISEF) 05 p0721 N84-14730
The Integrated Software Engineering Facilities (ISEF) software configuration management system 05 p0722 N84-14732
ANSI Ada and the UK M-CHAPSE 05 p0725 N84-14760
Fluid thermodynamics
[ESA-TT-778] 06 p0845 N84-15512
Study of the onboard calibration equipment of the HRV camera
[ESA-TT-794] 06 p0848 N84-15529
Explicit second order splitting schemes for solving hyperbolic nonlinear problems: Theory and application to transonic flow
[ESA-TT-768] 06 p0902 N84-15855
Stationary stochastic processes
[ESA-TT-812] 06 p0905 N84-15875
Spacecraft/plasma interactions and their influence on field and particle measurements
[ESA-SP-198] 08 p1115 N84-17253
Remote sensing: New satellite systems and potential applications
[ESA-SP-205] 08 p1174 N84-17650
The first European Remote Sensing Satellite (ERS-1): Overall description, potential applications and users 08 p1175 N84-17654
Land use inventory and statistical sampling in agriculture 08 p1176 N84-17658
The International Solar Polar Mission: Its scientific investigations
[ESA-SP-1050] 09 p1260 N84-18227
EURECA: An introduction to Europe's free-flying retrievable carrier
[ESA-BR-16] 09 p1272 N84-18308

Spacelab data book
[ESA-BR-14] 09 p1273 N84-18315
First European Space Mechanics and Tribology Symposium
[ESA-SP-196] 09 p1294 N84-18454
Microgravity as an additional tool for research in human physiology with emphasis on sensorimotor systems
[ESA-BR-15] 09 p1362 N84-18900
The Apollo concept: Electronic document delivery by satellite
[ESA-SP-1048] 09 p1405 N84-19179
Statistical methods in astronomy
[ESA-SP-201] 09 p1407 N84-19196
Developmental possibilities and restrictions in air transport
[ESA-TT-744] 10 p1423 N84-19307
Development possibilities in commercial air transport in the Federal Republic of Germany
10 p1423 N84-19308
Possibilities for the future organization of air transport in the European community 10 p1424 N84-19309
Transport infrastructure: Is planning still achievable
10 p1424 N84-19310
The supplier: Constraints and prospects
10 p1424 N84-19311
Environmental and thermal control systems for space vehicles
[ESA-SP-200] 10 p1439 N84-19396
Thermal cycling tests in space environment simulation chambers 10 p1440 N84-19401
Thermal test data analysis 10 p1447 N84-19450
Introduction to geostationary orbits
[ESA-SP-1053] 12 p1776 N84-21590
Derivation and combination of impedance matrices for flexible satellites
[ESA-STR-209] 12 p1778 N84-21604
A universal 3-dimensional wall pressure correction method for closed rectangular subsonic wind tunnel test sections (displacement, downwash, streamline curvature)
[ESA-TT-800] 13 p1935 N84-22588
Airborne lidar for oceanography and hydrology (FLOH)
[ESA-TT-799] 13 p1996 N84-22955
Thermodynamic model for a central receiver of a solar plant with partial shading of the heliostat field
[ESA-TT-807] 13 p2010 N84-23034
Second-generation Meteosat: System study, executive summary
[ESA-SP-1063] 15 p2371 N84-25224
An atlas of UV spectra of supernovae
[ESA-SP-1046] 15 p2424 N84-25563
Wind tunnel investigations on thin supercritical airfoils in the high subsonic flow regime
[ESA-TT-774] 16 p2440 N84-25652
Evaluation of boundary layer measurements in two-dimensional compressible subsonic flow with a pressure gradient across the boundary layer
[ESA-TT-810] 16 p2440 N84-25653
The generation of higher levels of turbulence in the test section of the high speed cascade wind tunnel at Brunswick for simulation of turbomachinery conditions
[ESA-TT-815] 16 p2440 N84-25654
Comparison of a propfan/turbofan engine by thermodynamic cycle calculation
[ESA-TT-820] 16 p2450 N84-25715
Ariane V8 - Intelsat V F8 16 p2456 N84-25746
Free molecular aerodynamics for satellite application
[ESA-TT-776] 16 p2456 N84-25749
Evolution of the phonon spectrum and the density of states at the Fermi level near the martensitic transformation in NiAl, Ti(NiCo), CuZnAl and InTl alloys
[ESA-TT-767] 16 p2465 N84-25801
Estimation of the parameters of an unmodulated carrier signal disturbed by complex-multiplicative and additive Gaussian noise
[ESA-TT-737] 16 p2482 N84-25914
Error response of a trapezoidal pulses DME technique disturbed by multipath effects and noise
[ESA-TT-747] 16 p2482 N84-25915
A microwave time transmission system
[ESA-TT-782] 16 p2482 N84-25916
Measurement of the flow field behind harmonically oscillating gust generators in the model subsonic wind tunnel (MUK)
[ESA-TT-806] 16 p2487 N84-25953
Investigations on the lock-in problem and the readout technique of laser gyros
[ESA-TT-773] 16 p2496 N84-26014
Automatically equalizing fluid manometer combined with a computer
[ESA-TT-811] 16 p2496 N84-26015
Imaging by active laser methods
[ESA-TT-804] 16 p2497 N84-26022
Earthnet: The story of images
[ESA-BR-18] 16 p2509 N84-26102
Digital processing of LANDSAT data for the preparation of a land use map of the rural district surrounding Tuebingen to a scale of 1:50000
[ESA-TT-816] 16 p2509 N84-26104
The theory of Earth observation using multiple-frequency radar
[ESA-TT-819] 16 p2509 N84-26105
Investigation of interactions between helmet-mounted sight/display, sensor platform and human pilot
[ESA-TT-746] 16 p2539 N84-26299
The project Cockpit Instruments and Human Engineering as part of a joint research program on aircraft guidance and control at the Technical University of Brunswick
[ESA-TT-783] 16 p2539 N84-26300
Simulation of linear multivariable systems with piecewise continuous input functions and with various options for graphic representation of the results
[ESA-TT-749] 16 p2544 N84-26333
Propeller noise at subsonic blade tip speeds, torque and thrust force
[ESA-TT-821] 16 p2554 N84-26385
Foundations of a numerical model of slant visibility
[ESA-TT-757] 16 p2557 N84-26403
Catalog of ESA publications in 1983
[ESA-SP-105] 16 p2567 N84-26470
IUE low dispersion spectra reference atlas. Part 1: Normal stars
[ESA-SP-1052-PT-1] 16 p2576 N84-26531
The effect of gravity on the solidification of immiscible alloys
[ESA-SP-219] 17 p2612 N84-26719
Report on the activities of the Space Science Department
[ESA-SP-1062] 17 p2774 N84-27611
Europe: Two decades in space. Recollections by some of the principal pioneers
[ESA-SP-1060] 18 p2946 N84-28680
Twenty years of European cooperation in space
18 p2946 N84-28681
Measurement of unsteady aerodynamic pressures
[ESA-TT-834] 19 p2959 N84-28757
Report presented by the European Space Agency to the 25th COSPAR meeting
[ESA-SP-1061] 19 p2979 N84-28885
Monitoring of ship routes via satellite
[ESA-TT-842] 19 p2980 N84-28889
Calculation of the performance of an RF excited transverse flow CO2 laser
[ESA-TT-832] 19 p3030 N84-29221
The Technical University of Denmark (TUD)-ESA spherical near field antenna test facility, Lyngby, Denmark
[ESA-BR-19] 20 p3132 N84-29890
Dynamic synthesis and evaluation of spacecraft structures
[ESA-STR-208] 20 p3135 N84-29904
European Space Tribology Laboratory: Facilities, services, capabilities
[ESA-BR-12] 20 p3199 N84-30317
Scientific-Technical Facilities Department. Scientific-technical report
[ESA-TT-843] 20 p3321 N84-31083
International Geoscience and Remote Sensing Symposium (IGARSS) 84. Remote sensing: From Research Towards Operational Use, volume 1
[ESA-SP-215-VOL-1] 23 p3764 N84-33857
The International Geoscience and Remote Sensing Symposium (IGARSS) 84. Remote sensing: From research towards operational use, volume 2
[NASA-CR-173978] 23 p3777 N84-33946
European plans for handling off-line tasks of the ERS-1 23 p3784 N84-33997
Ocean Color Working Group report to ESA Observation Advisory Committee
[ESA-BR-20] 23 p3785 N84-34003
Protein Single Crystal Growth Under Low Gravity
[ESA-SP-1067] 23 p3804 N84-34118
The Gravity Relevance in Bone Mineralization Processes
[ESA-SP-203] 23 p3807 N84-34138
The basic concept of particle rest mass in a quantized relativistic universe
[ESA-STM-233] 23 p3832 N84-34306
Space laser applications and technologies (SPLAT)
[ESA-SP-202] 24 p3903 N84-34715
ESA and its programs: Present and future
24 p3903 N84-34716
Fourth European IUE Conference
[ESA-SP-218] 24 p3970 N84-35135

EUROPEAN SPACE AGENCY, TOULOUSE (FRANCE).

The European Space Agency's Earth observation satellite programmes 06 p0867 N84-15647
European Space Agency, ERS-1 program
07 p0990 N84-16419

EUROPEAN SPACE OPERATIONS CENTER, DARMSTADT (WEST GERMANY).

Spacecraft interface design and its impact on operational support
[ESA-STR-211] 03 p0342 N84-12220
Software engineering techniques employed in on-schedule completion of Meteosat-2 software
05 p0723 N84-14746
The PET/MAESTRO: A user's view
05 p0724 N84-14750
Comparison of the portable Program ECS Package for Synchronous Orbit Control (PEPSOC) and the ESOC Multi-Satellite Support System (MSSS) control software
05 p0725 N84-14782
ISPM mission operations 09 p1263 N84-18244
Radiation budget parameters from Meteosat-2 data
10 p1534 N84-20049

EUROPEAN SPACE RESEARCH AND TECHNOLOGY CENTER, NOORDWIJK (NETHERLANDS).

Observation of waves induced by an artificial ion beam in the ionosphere 05 p0835 N84-14178
The experiment Phenomena Induced by Charged Particle Beams (PICPAB) on board Spacelab 1
05 p0841 N84-14220
A user's view of the Statistic Analysis Package (SAP): A new software quality assurance tool for FORTRAN programs 05 p0722 N84-14738
Observations of the GEOS-2 equilibrium potential and its relation to the ambient electron energy distribution
08 p1116 N84-17256
Laboratory measurement of impact ionization
08 p1118 N84-17271
Shot noise generated by gas impact during a cometary fly-by 08 p1118 N84-17273
Active control of the potential of ISEE-1 by an electron gun 08 p1119 N84-17278
The ISPM mission: Science objectives and mission overview 09 p1260 N84-18229
The ISPM cosmic-ray and solar-particle investigation
09 p1262 N84-18236
The ISPM spacecraft 09 p1263 N84-18243
The ISPM common data file 09 p1263 N84-18245
The Giotto mechanisms and their functions
09 p1294 N84-18459
A rationale for the testing of space mechanisms
09 p1296 N84-18471
European technology requirements on space automation and teleoperation 09 p1297 N84-18477
Future trends in spacecraft thermal control designs
10 p1439 N84-19397
Spacecraft thermal balance testing using infrared lamps on a dummy spacecraft 10 p1439 N84-19399
IRSIM: A program for the calculation of infrared flux intensity incident on a spacecraft inside a test chamber
10 p1440 N84-19400
Thermal design of the Giotto spacecraft
10 p1441 N84-19412
Thermal design of Infrared Space Observatory (ISO) payload dual cooling 10 p1442 N84-19417
Superfluid Helium Cryostat for Space Utilization (CRHESUS): Development and test overview
10 p1442 N84-19420
MANIP and MINIP, new modeling tools for the thermal engineer 10 p1443 N84-19425
ESATAN: A thermal network analysis computer program 10 p1443 N84-19426
The Giotto thermal control shutter
10 p1444 N84-19435
Surface property measurement for spacecraft thermal balance testing 10 p1447 N84-19451
Accurate thermal control of enclosures of optical payloads 10 p1447 N84-19457
The Large Space Simulator (LSS) at ESA/ESTEC (a summary of the main characteristics)
10 p1448 N84-19458
Components selection, procurement and control for ESA spacecraft and associated equipment
[ESA-PSS-01-60-ISSUE-1] 16 p2458 N84-25760
The detection of organic contamination of surfaces by infrared spectroscopy
[ESA-PSS-01-705-ISSUE-1] 16 p2462 N84-25780
Flammability testing for the screening of space materials
[ESA-PSS-01-721-ISSUE-1] 16 p2463 N84-25787
The black-anodizing of aluminum with inorganic dyes
[ESA-PSS-01-703-ISSUE-1] 16 p2465 N84-25798
Material selection for controlling stress-corrosion cracking
[ESA-PSS-01-736-ISSUE-1] 16 p2465 N84-25799
Determination of the susceptibility of metals to stress corrosion cracking
[ESA-PSS-01-737-ISSUE-1] 16 p2465 N84-25800
The application of the black electrically conductive coating CHEMGLAZE H322
[ESA-PSS-01-734-ISSUE-1] 16 p2471 N84-25834

The application of the black electrically conductive coating CHEMGLAZE L300
[ESA-PSS-01-735-ISSUE-1] 16 p2471 N84-25835
The oil impregnation of phenolic-resin-based materials used in the fabrication of ball-bearing cages
[ESA-PSS-01-712-ISSUE-1] 16 p2472 N84-25846
Measurement of the peel and pull-off strength of coatings and finishes with pressure-sensitive tapes
[ESA-PSS-01-713-ISSUE-1] 16 p2472 N84-25847
The application of the black paint CHEMGLAZE Z306
[ESA-PSS-01-725-ISSUE-1] 16 p2472 N84-25848
The cleaning of ECCOSORB AN foam
[ESA-PSS-01-727-ISSUE-1] 16 p2473 N84-25849
The application of the thermal-control paint PYROLAC PSG 120FD
[ESA-PSS-01-733-ISSUE-1] 16 p2473 N84-25850
Contamination and cleanliness control
[ESA-PSS-01-201-ISSUE-1] 16 p2475 N84-25867
Preservation, storage, handling and transportation of ESA spacecraft hardware
[ESA-PSS-01-202-ISSUE-1] 16 p2475 N84-25868
ESA preferred parts list
[ESA-PSS-01-603-ISSUE-1] 16 p2475 N84-25869
The repair and modification of printed-circuit boards and solder joints for space use
[ESA-PSS-01-728-ISSUE-1] 16 p2477 N84-25881
The cleaning of GUIDE-SPACE D96 tape
[ESA-PSS-01-732-ISSUE-1] 16 p2477 N84-25882
Derating requirements and application rules for electronic components
[ESA-PSS-01-301-ISSUE-1] 16 p2484 N84-25930
Generic specification for hybrid microcircuits
[ESA-PSS-01-608-ISSUE-1] 16 p2484 N84-25931
The crimping of high-reliability electrical connections
[ESA-PSS-01-726-ISSUE-1] 16 p2485 N84-25937
Product assurance requirements for micro VCM-apparatus and associated equipment
[ESA-PSS-01-711-ISSUE-1] 16 p2496 N84-26013
Basic requirements for product assurance of ESA spacecraft and associated equipment
[ESA-PSS-01-0-ISSUE-1] 16 p2499 N84-26034
Product assurance management and audit systems for ESA spacecraft and associated equipment
[ESA-PSS-01-10-ISSUE-1] 16 p2499 N84-26035
Quality assurance of ESA spacecraft and associated equipment
[ESA-PSS-01-20-ISSUE-1] 16 p2499 N84-26036
Software quality assurance for ESA spacecraft and associated equipment
[ESA-PSS-01-21-ISSUE-1] 16 p2500 N84-26037
Reliability assurance of ESA spacecraft
[ESA-PSS-01-30-ISSUE-1] 16 p2500 N84-26038
Safety assurance of ESA spacecraft and associated equipment
[ESA-PSS-01-40-ISSUE-1] 16 p2500 N84-26039
Material and process selection and quality control for ESA spacecraft and associated equipment
[ESA-PSS-01-70-ISSUE-2] 16 p2500 N84-26040
Software quality assurance plans
[ESA-PSS-01-101-ISSUE-1] 16 p2500 N84-26041
Quality assurance of test houses for ESA spacecraft and associated equipment
[ESA-PSS-01-203-ISSUE-1] 16 p2500 N84-26042
A thermal vacuum issue for the screening of space materials
[ESA-PSS-01-702-ISSUE-1] 16 p2500 N84-26043
A thermal cycling test for the screening of space materials and processes
[ESA-PSS-01-704-ISSUE-1] 16 p2500 N84-26044
The listing and approval procedure for materials and processes
[ESA-PSS-01-716-ISSUE-1] 16 p2500 N84-26046
The control of limited life materials
[ESA-PSS-01-722-ISSUE-1] 16 p2500 N84-26047
The particle and ultraviolet (UV) radiation testing of space materials
[ESA-PSS-01-706-ISSUE-1] 16 p2555 N84-26393
Acoustic mixing of an immiscible alloy (Pb-Zn) in microgravity 17 p2613 N84-26728
The evaluation and approval of automatic machine wave soldering for ESA spacecraft hardware
[ESA-PSS-01-707] 20 p3182 N84-30215
The Spacelab flight unit offgassing test
[ESA-STM-232] 23 p3701 N84-33460
The corrosion properties of Spacelab structural alloy aluminum 2219-T851
[ESA-STR-212] 23 p3720 N84-33585
Some considerations of the operations of optical imaging space sensors derived from the experience of the metric camera project 23 p3764 N84-33860
Diffusion profiles in microgravity protein crystallization experiments 23 p3805 N84-34125
Main characteristics of the Large Space Simulation (LSS) 24 p3862 N84-34472
The ESA technological research programs 24 p3903 N84-34717
Outlook of lasers in space operations and navigation 24 p3904 N84-34722
Intersatellite links: Requirements for future missions and limitations from spacecraft resources 24 p3904 N84-34723

EUROPEAN SPACE TECHNOLOGY CENTER, NOORDWIJK (NETHERLANDS).
Interactions between a large body and its environment in a low polar orbit
[AD-P002111] 16 p2523 N84-26197
ESA activities in the use of microwaves for the remote sensing of the Earth 17 p2712 N84-27264

EUROPEAN SPACE TRIBOLOGY LAB., RISLEY (ENGLAND).
The importance of thermal-vacuum testing in achieving high reliability of spacecraft mechanisms 15 p2347 N84-25085

EUROSENSE B.V., THE HAGUE (NETHERLANDS).
An operational remote sensing methodology for the detection, inventory and environmental monitoring of waste disposal sites 03 p0398 N84-12601

EUROSENSE BELFOTOP G.M.B.H., HUERTH (WEST GERMANY).
The synthesized climatic function map 03 p0400 N84-12617

EUROSIL G.M.B.H., ECHING (WEST GERMANY).
Development of a process for manufacturing high voltage CMOS circuits and of a technology for gold bump plating for use in integrated display systems
[BMFT-FB-T-83-280] 10 p1488 N84-19732

EVANS AND SUTHERLAND COMPUTER CORP., SALT LAKE CITY, UTAH.
A wide field-of-view CRT projection system with optical feedback for self alignment
[AD-P003447] 21 p3508 N84-32224
DMA and CIG: A shotgun wedding
[AD-P003459] 21 p3510 N84-32236

EVANS (CHARLES) AND ASSOCIATES, SAN MATEO, CALIF.
Development and application of SIMS (Secondary Ion Mass Spectrometry) characterization techniques for the study of impurities and impurity motion in (HgCd)Te and CdTe
[AD-A140712] 17 p2619 N84-26759

EXECUTIVE OFFICE OF THE PRESIDENT, WASHINGTON, D. C.
Science and technology report to the Congress, 1982
[DE84-901150] 20 p3313 N84-31040
Publications of the Executive Office of the President, January 20, 1981 - March 31, 1984
[PB84-182328] 21 p3519 N84-32298

EXFLUOR RESEARCH CORP., AUSTIN, TEX.
New fluorocarbon elastomers for seals for geothermal and other aggressive environments
[DE83-014424] 01 p0090 N84-10590

EXIDE MANAGEMENT AND TECHNOLOGY CO., YARDLEY, PA.
Research, development and demonstration of advanced lead-acid batteries for utility load leveling
[DE84-002683] 05 p0676 N84-14444
Testing, data analysis and engineering services on lead-acid load leveling batteries
[DE84-011523] 20 p3180 N84-30198

EXXON RESEARCH AND ENGINEERING CO., BAYTON, TEX.
Combustion of EDS mid-distillate and refined shale-oil residual fuel in a gas turbine with large single-combustion chamber
[DE83-017700] 03 p0351 N84-12281

EXXON RESEARCH AND ENGINEERING CO., LINDEN, N.J.
Microprocessor-based control system for flowing-electrolyte zinc-bromine battery systems
[DE83-012506] 03 p0369 N84-12403
Development of a circulating zinc-bromine battery, phase 2
[DE84-001886] 04 p0527 N84-13463
Zinc-bromine cell design
[DE84-005532] 11 p1647 N84-20773
The effect of property changes on jet fuel producibility and cost 14 p2106 N84-23632
Segregation of impurities in directionally solidified silicon 18 p2940 N84-28647

F

FACHHOCHSCHULE, AACHEN (WEST GERMANY).
Development of a simple wind speedometer for application in countries of the developing world
[BMFT-FB-T-83-310] 15 p2336 N84-25022

FACHINFORMATIONSZENTRUM FUER ENERGIE, PHYSIK, MATHEMATIK G.M.B.H., EGGENSTEIN-LEOPOLDSHAFEN (WEST GERMANY).
Information Package: Windpower utilization 23 p3785 N84-34005
Windpower utilization possibilities 23 p3785 N84-34007
Advice for windpower users 23 p3786 N84-34010

FACTORY MUTUAL RESEARCH CORP., NORWOOD, MASS.
Combustibility of electrical wire and cable for rail rapid transit systems. Volume 1: Flammability
[PB83-233742] 02 p0217 N84-11420
Automatic sprinklers 04 p0510 N84-13346
Fire modeling research at Factory Mutual 04 p0513 N84-13370

FACULTES UNIVERSITAIRES NOTRE-DAME DE LA PAIX, NAMUR (BELGIUM).
Orbital evolution of the Galilean satellites: The conservative model 19 p3120 N84-29830

FAILURE ANALYSIS ASSOCIATES, PALO ALTO, CALIF.
Recommendations for future research on fracture mechanics life technology
[NASA-CR-170904] 08 p1169 N84-17615
A review of fracture mechanics life technology
[NASA-CR-170903] 08 p1170 N84-17622
Cost/risk analysis for disk retirement, volume 1
[AD-A141978] 20 p3131 N84-29881
Techniques for fatigue life predictions from measured strains
[NASA-CR-171118] 20 p3201 N84-30334

FAIRCHILD CAMERA AND INSTRUMENT CORP., PALO ALTO, CALIF.
MIL-STD-1750A microprocessor chip set development
[AD-P003548] 21 p3334 N84-31152

FAIRCHILD LAB. FOR ARTIFICIAL INTELLIGENCE RESEARCH, PALO ALTO, CALIF.
An overview of signal representations in signal processing languages 09 p1400 N84-19146

FAIRCHILD REPUBLIC DIV., FARMINGDALE, N. Y.
The computation of all plane/surface intersections for CAD/CAM applications 12 p1869 N84-22182

FAIRCHILD SPACE AND ELECTRONICS CO., GERMANTOWN, MD.
Study of a Tracking and Data Acquisition System (TDAS) in the 1990's
[NASA-CR-173262] 10 p1433 N84-19368
Study of a tracking and data acquisition system for the 1990's. Volume 1: User community characteristics
[NASA-CR-175194] 10 p1433 N84-19370
Consideration of MIL-STD-1760, aircraft/store electrical interface standard on stores management system architectures
[AD-P003529] 21 p3331 N84-31133

FAIRCHILD WESTON SYSTEMS, INC., SARASOTA, FLA.
The Fairchild Digital Flight Recorder (DFR) F 800 17 p2586 N84-26576

FAIRCHILD WESTON SYSTEMS, INC., SYOSSET, N.Y.
Spas color camera
[NASA-CR-171739] 08 p1161 N84-17559

FALCON RESEARCH AND DEVELOPMENT CO., BUFFALO, N. Y.
Marine Corps ground simulator training needs in the 1985-1995 time frame
[AD-P003465] 21 p3511 N84-32242

FARLEIGH DICKINSON UNIV., TEANECK, N. J.
Center for the transfer of desalination technology
[PB83-223057] 01 p0039 N84-10246

FAUCETT (JACK) ASSOCIATES, INC., CHEVY CHASE, MD.
Assessment of institutional barriers to the use of natural gas fuel in automotive vehicle fleets
[NASA-CR-168183] 05 p0699 N84-14587

FEDERAL AVIATION ADMINISTRATION, ATLANTIC CITY, N.J.
A laboratory test for evaluating the fire containment characteristics of aircraft class D cargo compartment lining material
[DOT/FAA/CT-83/44] 01 p0006 N84-10035
Omega Data Bank
[AD-A131089] 01 p0008 N84-10046
Evalution of retroreflective pavement markers for precision and nonprecision runways
[FAA-CT-82-164] 02 p0182 N84-11182
Correlation of laboratory-scale fire test methods for seat blocking layer materials with large-scale test results
[AD-A131666] 03 p0328 N84-12138
Effects of ventilation and panel properties on temperature rise from aircraft fires
[DOT/FAA/CT-TN83/63] 07 p0949 N84-16157
Extinguisher agent behavior in a ventilated small aircraft
[FAA-CT-83-30] 07 p0949 N84-16158
Marking and lighting of unpaved runways - inservice testing
[AD-A140958] 18 p2797 N84-27751
The measurement of pilot performance: A master-journeyman approach
[AD-A142457] 20 p3262 N84-30698

FEDERAL AVIATION ADMINISTRATION, HAMPTON, VA.
An investigation of the existence of a surface water layer on aircraft radomes during simulated flight in heavy precipitation
[NASA-TM-85813] 19 p3003 N84-29035

FEDERAL AVIATION ADMINISTRATION, OKLAHOMA CITY, OKLA.
Crashworthiness: An illustrated commentary on occupant survival in general aviation accidents
[AD-A130198] 01 p0006 N84-10038
Job attitudes toward the new maintenance concept of the airway facilities service
[AD-A133282] 06 p0891 N84-15793

FEDERAL AVIATION ADMINISTRATION, WASHINGTON, D.C.
Helicopter noise survey conducted at Norwood, Massachusetts on April 27, 1983
[AD-A131053] 01 p0140 N84-10922
Helicopter noise survey performed at Parker Center, Pasadena, and Anaheim, California, on February 10-14, 1983
[AD-A130962] 02 p0288 N84-11887
Information resources management plan
[AD-A131964] 03 p0459 N84-13023
Census of US Civil aircraft. Calendar year 1982
[AD-A133161] 06 p0768 N84-15033
Advanced automation program. Program master plan
[DOT/FAA/AP-83/3] 06 p0785 N84-15139
Establishment and discontinuance criteria for airport traffic control towers
[AD-A133461] 06 p0785 N84-15141
Inhalation toxicology. 3: Evaluation of thermal degradation products from aircraft and automobile engine oils, aircraft hydraulic fluid, and mineral oil
[AD-A133221] 06 p0889 N84-15778
Color perception and ATC job performance
[AD-A132649] 06 p0890 N84-15781
Rate of initial recovery and subsequent radar monitoring performance following a simulated emergency involving startle
[AD-A133602] 06 p0892 N84-15795
Airport noise control strategies
[AD-A133137] 06 p0908 N84-15900
Noise levels and data analyses for small prop-driven aircraft
[AD-A134598] 07 p0952 N84-16175
Age, altitude, and workload effects on complex performance
[AD-A133594] 07 p1047 N84-16793
Radar training facility initial validation
[AD-A133220] 07 p1049 N84-16797
FAA (Federal Aviation Administration) statistical handbook of aviation: Calender year 1982
[PB84-127323] 08 p1096 N84-17124
Semiannual report to Congress on the effectiveness of the civil aviation security program
[AD-A134860] 08 p1100 N84-17156
The objective evaluation of aircrew protective breathing equipment. 5: Mask/goggles combinations for female crewmembers
[AD-A134912] 08 p1201 N84-17830
Establishment and discontinuance criteria for precision landing systems
[AD-A135606] 09 p1254 N84-18185
Establishment and discontinuance criteria for Automated Weather Observing Systems (AWOS)
[AD-A135674] 09 p1349 N84-18811
Airport activity statistics of certificated route air carriers
[AD-A137418] 10 p1424 N84-19313
Automated en route air traffic control algorithmic specifications. Volume 3: Flight plan conflict probe
[AD-A136795] 10 p1425 N84-19319
Automated en route air traffic control algorithmic specifications. Volume 4: Sector workload probe
[AD-A136796] 10 p1425 N84-19320
Operational and functional description of AERA 1.01
[AD-A136831] 10 p1425 N84-19322
Automated en route air traffic control algorithmic specifications. Volume 2: Airspace probe
[AD-A136850] 10 p1426 N84-19324
Automated en route air traffic control algorithmic specifications. Volume 5: Data specification
[AD-A136851] 10 p1426 N84-19325
Operational and functional description of the AERA packages
[AD-A136852] 10 p1426 N84-19326
Automated en route air traffic control algorithmic specifications. Volume 1: Trajectory estimation
[AD-A137088] 10 p1426 N84-19328
A hazard in aerobatics: Effects of G-forces on pilots
[FAA-AC-91-61] 12 p1865 N84-22152
FAA (Federal Aviation Administration) aviation forecasts -Fiscal Years 1984-1995
[AD-A138759] 13 p1929 N84-22549
Noise measurement flight test: Data/Analyses Bell 222 twin jet helicopter
[AD-A139906] 15 p2404 N84-25430
Cabin safety subject index
[AD-A140409] 16 p2445 N84-25683
Airfield delay simulation model (ADSIM) users guide
[PB84-171552] 17 p2611 N84-26715
US energy: Aviation perspective
[AD-A137766] 18 p2821 N84-27910
Cockpit data management requirements (current technology aircraft)
[FAA-PM-83-25] 19 p2961 N84-28766
The performance of civil airport pavement with lime-cement-flyash base course
[FAA-PM-84-10] 19 p2969 N84-28815
Area equivalent method VISICALC (trade name). Users' guide
[AD-A141430] 19 p3084 N84-29572
FAA (Federal Aviation Administration) air traffic activity FY 1983
[AD-A142493] 20 p3127 N84-29861
Report of accomplishments under the airport improvement program
[AD-A142444] 20 p3132 N84-29889
Report to Congress on the effectiveness of the Civil Aviation Security Program
[AD-A143023] 21 p3326 N84-31103
Noise measurement flight test: Data-analyses Aerospatiale SA-365N Dauphin 2 helicopter
[AD-A143229] 22 p3652 N84-33151
Modernization of the US national airspace system. Foundation for the future
[AD-A144332] 24 p3853 N84-34435
Introduction to the airport improvement program
[AD-A144556] 24 p3857 N84-34454
Operational requirements for the Remote maintenance Monitoring System (RMMS)
[AD-A144218] 24 p3894 N84-34659
The high altitude pollution program (1976 - 1982)
[AD-A144390] 24 p3917 N84-34800

FEDERAL AVIATION AGENCY, ATLANTIC CITY, N.J.
Evaluation of an improved flame resistant aircraft window system
[FAA-CT-83-10] 17 p2603 N84-26680
Study on transport airplane unplanned water contact
[AD-A142092] 19 p2961 N84-28764
Identification of exit taxiways (retroflective markers only)
[FAA-CT-83-5] 19 p2969 N84-28812
Modified reflex-percussive grooves for runways
[AD-A143569] 22 p3538 N84-32400

FEDERAL AVIATION AGENCY, WASHINGTON, D.C.
The FAA (Federal Aviation Administration) air traffic activity, fiscal year 1982
[PB83-228460] 01 p0008 N84-10048
Census of US civil aircraft
[PB83-252460] 04 p0478 N84-13147
The 8th FAA Forecast Conference Proceedings
[AD-A132646] 05 p0626 N84-14114

FEDERAL COMMUNICATIONS COMMISSION, WASHINGTON, D. C.
Analysis of technical possibilities for further sharing of the UHF television band by the land mobile services in the top ten land mobile markets
[PB84-123116] 08 p1148 N84-17470
Implementing new technology in the land mobile radio services
[PB84-101591] 08 p1148 N84-17472
Amplitude Compandored Sideband compared to conventional frequency modulation for VHF mobile radio: Laboratory and field testing results
[PB84-116383] 08 p1148 N84-17474
Advanced technology UHF receiver study. Part 2: Effect on UHF television allotments
[PB84-173848] 16 p2483 N84-25921

FEDERAL COMPILER TESTING CENTER, FALLS CHURCH, VA.
Northern Telecom, Incorporated NTI-585 ACOBOL/3 release 3 (COBOL technical report)
[PB83-241521] 03 p0422 N84-12758
Northern Telecom Incorporated NTI-585 XCOBOL, release 3
[PB83-241539] 03 p0422 N84-12759
Northern Telecom, Incorporated NTI-585 XCOBOL, release 3 (COBOL technical report)
[PB83-241547] 03 p0422 N84-12760
Digital Equipment Corporation VAX 11/750, VAL-11 COBOL version 2.2
[PB83-241588] 03 p0422 N84-12761
NCR Corporation NCR 9300 ITX-BASIC release 1.1
[PB83-243410] 03 p0422 N84-12762
Computer Sciences Corporation UNIVAC 1100/80 CSTS FORTRAN, release FTN148
[PB83-243428] 03 p0422 N84-12763
Digital Equipment Corporation, PDP-11/44 COBOL-81 version 2.0
[PB83-247734] 03 p0422 N84-12764
Digital Equipment Corporation COBOL-81 version 2.0 (COBOL technical report)
[PB83-247742] 03 p0423 N84-12765
Digital Equipment Corporation, VAX 11/750, VAL-11 COBOL version 2.2 (COBOL technical report)
[PB83-241596] 04 p0583 N84-13851
IBM Corporation IBM4341 IBM BASIC release 1.0
[PB82-240945] 04 p0583 N84-13852
Datapoint Corporation Datapoint 8800 RMS COBOL 2.3.A
[PB83-240962] 04 p0583 N84-13853
Datapoint Corporation, Datapoint 8800, RMS COBOL 2.3.A
[PB83-241075] 04 p0583 N84-13854
Northern Telecom, Incorporated NTI-585 A COBOL/3 release 3
[PB83-241513] 04 p0584 N84-13855
Four Phase Systems, Incorporated IV/90 Mod 2 COBOL '74 release BE07
[PB84-102706] 08 p1214 N84-17923
Four Phase Systems, Incorporated IV/90 Mod 2 COBOL '74 release BE07.COBOL technical report
[PB84-102714] 08 p1215 N84-17924
Honeywell Information Systems DPS 6/98 COBOLR release 1.0
[PB84-137264] 11 p1705 N84-21113
Software improvement process: Its phases and tasks. Part 1: Text. Part 2: Appendices
[PB84-162460] 14 p2206 N84-24242
United Information Services, Inc., CDC CYBER 175, CDC FORTRAN 5.1
[PB84-157668] 14 p2207 N84-24245
Tandem Computers, Incorporated, Tandem Nonstop 2, FORTRAN T82002E01
[PB84-157569] 14 p2207 N84-24248
Honeywell Information Systems, DPS 8/49, (8)BA2.3 BASIC compiler
[PB84-157296] 14 p2207 N84-24247
Burroughs Corporation, B1990-DP system, B1000 system COBOL74 release 11.0
[PB84-179241] 17 p2755 N84-27487
Gould Incorporated, Gould Concept 32/87, COBOL Release 1.4
[PB84-180249] 20 p3276 N84-30798
Programmer productivity aid catalog
[PB84-212166] 22 p3642 N84-33095

FEDERAL COMPILER TESTING CENTER, WASHINGTON, D.C.
Stratus Computer, Inc. Stratus 32, VOS COBOL release 2.5
[PB83-262378] 05 p0720 N84-14722
IBM Corporation IBM 4341, VS FORTRAN release 3.0
[PB83-257998] 05 p0720 N84-14723

FEDERAL COORDINATING COUNCIL FOR SCIENCE, ENGINEERING AND TECHNOLOGY, WASHINGTON, D. C.
Inventory of federal materials research and technology, fiscal year 1982
[PB83-256610] 05 p0758 N84-14970

FEDERAL ELECTRIC CORP., VANDENBERG AFB, CALIF.
An integrated approach to a successful embedded computer resource project
[AD-P003574] 21 p3338 N84-31179

FEDERAL GEODETIC CONTROL COMMITTEE, ROCKVILLE, MD.
Test and demonstration of Macrometer (TM) model V-1000 interferometric surveyor
[PB83-239103] 03 p0402 N84-12831

FEDERAL HIGHWAY ADMINISTRATION, WASHINGTON, D.C.
Time-to-corrosion of reinforcing steel in concrete slabs. Volume 5: Calcium nitrite admixture or epoxy-coated reinforcing bars as corrosion protection systems
[PB84-195239] 22 p3565 N84-32578
Microcomputers in transportation: Software and source book
[PB84-195155] 22 p3638 N84-33067

FEDERAL INST. FOR MATERIALS TESTING, BERLIN (WEST GERMANY).
Importance of properties of solids to friction and wear behaviour 14 p2153 N84-23895

FEDERAL MINISTRY FOR DEFENCE, BONN (WEST GERMANY).
Integration of fire, flight and propulsion control systems: An overview, retrospective and prospective
03 p0315 N84-12057

FEDERATION NATIONALE RESEARCHE SCIENTIFIQUE, LIEGE (BELGIUM).
Wave fronts to infinity of real analytic functions
22 p3634 N84-33031

FEDERATION OF AMERICAN SOCIETIES FOR EXPERIMENTAL BIOLOGY, BETHESDA, MD.
Research opportunities in muscle atrophy
[NASA-CR-175422] 10 p1546 N84-20135
Research opportunities in bone demineralization, phase 3 11 p1693 N84-21046
Research opportunities in muscle atrophy
[NASA-CR-3796] 17 p2743 N84-27416
Research opportunities in bone demineralization, phase 3
[NASA-CR-3795] 17 p2743 N84-27417

FEDERATION OF THE GERMAN AEROSPACE AND EQUIPMENT INDUSTRY (WEST GERMANY).
The aerospace industry in Germany: Today and tomorrow 12 p1764 N84-21501

FENG CHIA UNIV., TAICHUNG (TAIWAN).
A study of reduced dependence in multi-valued sequential machines
[AD-P002326] 14 p2189 N84-24117
Elastic wave propagation in a periodically triaminated composite 24 p3957 N84-35056

FERMI NATIONAL ACCELERATOR LAB., BATAVIA, ILL.
Memory-mapped CAMAC branch driver
[DE83-016084] 01 p0119 N84-10775
The effects of beam-beam collisions on storage-ring peformance: A pedagogical review
[DE83-012773] 01 p0144 N84-10944
Satellite refrigerator compressors with the oil and moisture removal systems
[DE83-016079] 03 p0384 N84-12502
New soluble approximation to Fokker-Planck equations
[DE83-016210] 03 p0426 N84-12791
A thousand TeV in the center of mass: Introduction to high-energy storage rings
[DE83-015649] 03 p0435 N84-12855
Hadron-hadron collider group
[DE83-010704] 03 p0437 N84-12865
Operational studies and expected performance of superconducting quadrupole magnets in the first stages of secondary beams
[DE83-016734] 03 p0456 N84-12999
Evolution of the ultra high energy cosmic ray spectron by transport equation
[DE83-013711] 03 p0476 N84-13132
Fermilab satellite refrigerator compressors with the oil- and moisture-removal systems
[DE83-017328] 04 p0515 N84-13386
Multiquark exotics
[DE83-017958] 04 p0601 N84-13964
Electrical and magnetic properties of the energy-saver correction elements
[DE83-017327] 04 p0603 N84-13983
Magnetic-field considerations in superferric dipole
[DE84-002573] 06 p0907 N84-15892
Breakdown processes in wire chambers, prevention and rate capability 06 p0912 N84-15923
High energy electromagnetic shower position measurement by a fine grained scintillation hodoscope 06 p0912 N84-15928
A measurement of the response of an SCG1-C scintillation glass shower detector to 2-17.5 GeV positrons 06 p0913 N84-15930
Helium leak detector improved sensitivity speed choke
[DE84-005160] 10 p1496 N84-19793
Measurement of the energy resolution and related properties of an SCG1-C scintillation glass shower counter array for 1 to 25 GeV positrons
[DE84-007246] 14 p2148 N84-23871
Measurement of electromagnetic shower position and size with a saturated avalanche tube hodoscope and a fine grained scintillation hodoscope
[DE84-007247] 15 p2337 N84-25032
The future of computing technology in physics: The potentials and pitfalls
[DE84-007249] 15 p2389 N84-25330
Simulation program for central helium liquefier
[DE84-009866] 19 p3079 N84-29539
Width of nonlinear resonance
[DE84-009862] 19 p3102 N84-29706
How much random sextupole field can we have in the presence of beam-beam interactions
[DE84-009867] 19 p3102 N84-29709
Automatic beam centering at the SSC interaction regions
[DE84-010710] 20 p3292 N84-30902
Modern control techniques for accelerators
[DE84-012521] 21 p3494 N84-32140
Beam cavity coupling impedance
[DE84-014064] 22 p3578 N84-32662
Possible cosmological origin of the ultra high energy cosmic rays
[DE84-013083] 22 p3681 N84-33334

FERNMELDETECHNISCHES ZENTRALAMT, DARMSTADT (WEST GERMANY).
Optimal design of an antenna array
[FTZ-454-TBR-38-E] 12 p1808 N84-21789

FERRANTI COMPUTER SYSTEMS LTD., CWMBRAN (ENGLAND).
A host-target programming support environment for the production of high-quality real-time systems 05 p0724 N84-14753

FERRANTI LTD., EDINBURGH (SCOTLAND).
Some aspects of flight trajectory control in future avionic systems for combat aircraft 03 p0316 N84-12066
Current work on high-grade space gyros at Ferranti in the UK 15 p2266 N84-24609

FERRO CORP., SANTA BARBARA, CALIF.
Particle size effects on viscosity of silver pastes: A manufacturer's view 12 p1839 N84-21992

FILMTEC CORP., MINNEAPOLIS, MINN.
Temperature-resistant elements for reverse osmosis treatment of hot process waste
[DE84-005190] 10 p1456 N84-19507

FILTRONIC COMPONENTS LTD., LEEDS (ENGLAND).
Study of in-orbit test techniques for multibeam satellites
[LL3-17] 16 p2456 N84-25748

FINNISH METEOROLOGICAL INST., HELSINKI.
Observations of Radioactivity, no. 21, 1981
[ISBN-951-697-191-1] 07 p1027 N84-16653
Formation of acid deposition: Atmospheric chemical tranformation and deposition
[REPT-107] 07 p1027 N84-16654
Meteorological yearbook of Finland, volume 77, part 1b. Climatological data from Jokioinen and Sodankylae Observatories, 1977
[ISBN-951-697-189-X] 07 p1035 N84-16713
Meteorological yearbook of Finland, volume 78, part 1b. Climatological data from Jokioinen and Sodankylae Observatories, 1978
[ISBN-951-697-193-8] 07 p1035 N84-16714
Climatological statistics in Finland, 1961 - 1980 07 p1035 N84-16715
Some statistical distributions of air particle trajectories near the ground in Finland
[ILMATIEDE-106] 07 p1035 N84-16716
Diurnal and annual variation of climatic elements in Finland
[T-551.583.13(480)] 18 p2883 N84-28294
Development of air sulfur concentration in Finland through the year 2000
[ISBN-951-697-178-4] 19 p3052 N84-29366

FIRE RESEARCH INST., TOKYO (JAPAN).
Sprinklers 04 p0510 N84-13345
Studies of emotional instability in smoke from fires: Decrease of thinking powers and of memory in fire smoke 04 p0511 N84-13355
Dependence of evolution of toxic gases on burning conditions 04 p0514 N84-13377

FIRET B.V., VEENENDAAL (NETHERLANDS).
Longitudinal waterblocking performance of conductive and non-conductive waterswellable nonwovens 11 p1721 N84-21225

FIRMA VOLKER SCHACH, WORMS (WEST GERMANY).
Mechanically working fully-automatic plant for the regeneration of used aluminum cap screws for bottles
[BMFT-FB-T-83-215] 10 p1472 N84-19615

FLIGHT DATA CO., LONDON (ENGLAND).
Are we giving aircraft integrated data systems users the best information in the best way at the best time? 17 p2585 N84-26566

FLIGHT DYNAMICS RESEARCH CORP., VAN NUYS, CALIF.
High speed ejectors
[AD-A141562] 18 p2796 N84-27741

FLIGHT SAFETY FOUNDATION, INC., ARLINGTON, VA.
Two decades of air carrier jet operation 06 p0775 N84-15080

FLIGHT TRANSPORTATION ASSOCIATES, INC., BOSTON, MASS.
Marine Air Traffic Control And Landing System (MATCALS) investigation
[AD-A130309] 01 p0007 N84-10045

FLORENCE UNIV. (ITALY).
Turbulence and 1/f noise in quantum optics 14 p2232 N84-24385
Effect of multiple scattering on the propagation of light beams in dense nonhomogeneous media 15 p2325 N84-24959
Application of the discrete cosine transform to remote sensing image data compression 23 p3779 N84-33964

FLORIDA DEPT. OF TRANSPORTATION, GAINESVILLE.
Relationship of Benkelman beam deflection as measured by Florida method to those measured by AASHTO method T-256-77, P-13-79
[PB83-252973] 05 p0694 N84-14557

FLORIDA INST. OF TECH., MELBOURNE.
Space reactors: What is a kilogram?
[DE84-012656] 22 p3655 N84-33169

FLORIDA SOLAR ENERGY CENTER, CAPE CANAVERAL.
Performance monitoring of active solar energy systems
[DE84-000027] 12 p1844 N84-22022

FLORIDA STATE UNIV., GAINESVILLE.
On the onset of the planetary scale monsoon 11 p1684 N84-20986
Centrifugal scaling laws for ground launch cruise missile shelter
[AD-A141572] 19 p2969 N84-28818

FLORIDA STATE UNIV., TALLAHASSEE.
On the wind stress - sea level power law
[AD-A132035] 03 p0410 N84-12681
Convex-ordering among functions, with applications to reliability and mathematical statistics
[AD-A132796] 05 p0736 N84-14833
Some new results on Grubbs' estimators
[AD-A133922] 05 p0739 N84-14852
Recurrence of symmetric random walks
[AD-A133807] 05 p0739 N84-14855
The Gauss-Tchebyshev inequality for unimodal distributions
[AD-A133760] 05 p0739 N84-14857
Total positivity, a review
[AD-A133691] 05 p0740 N84-14859
Estimation for infinite dimensional Ornstein-Uhlenbeck processes
[AD-A135372] 08 p1220 N84-17961
Research in theoretical nuclear physics
[DE84-003442] 08 p1230 N84-18038
File searching problems in logic programming systems
[AD-A136522] 09 p1367 N84-18923
A comparison of fuzzy switching functions and multiple-valued switching functions
[AD-P002363] 14 p2193 N84-24154
Research in oceanography
[AD-A139890] 15 p2373 N84-25237
Polymers in mechanochemical systems: Structure-property requirements
[DE84-007290] 15 p2413 N84-25490
The neogene stratigraphy of the Central Florida Panhandle 21 p3441 N84-31833
Two-dimensional finite amplitude mountain waves in the presence of moisture 22 p3622 N84-32947
TP2 orderings
[AD-A143434] 22 p3648 N84-33132
Kolmogorov's and Mourier's strong laws for arrays with independent and identically distributed columns
[AD-A143222] 22 p3650 N84-33139
The role of the state library agency in the future: A Delphi study 22 p3669 N84-33258

FLORIDA UNIV., GAINESVILLE.
Study of deep-level defects and transport properties vs. growth parameters and annealing conditions in III-IV compound semiconductors
[AD-A130776] 01 p0153 N84-11008
Axions in cosmology
[DE83-015590] 01 p0156 N84-11028
Seperators for lithium alloy-iron sulfide fused-salt batteries
[DE83-016203] 02 p0215 N84-11406
Use of thermal inertia determined by HCMM to predict nocturnal cold prone areas in Florida
[E84-10005] 02 p0235 N84-11546
Photon-photon production in hadron-hadron collisions
[DE83-015948] 02 p0292 N84-11912
Bistatic radar cross sections of chaff
[AD-A133967] 05 p0667 N84-14384
Study of 1/f noise in solids
[AD-A133856] 05 p0753 N84-14939
Electrically controlled coloration of materials
[AD-A133420] 06 p0801 N84-15223
A lifting surface computer code with jet-in-crossflow interference effects. Volume 1: Theoretical description
[NASA-CR-166524] 07 p0947 N84-16147
Grain refining and microstructural modification during solidification
[AD-A134605] 07 p0974 N84-16314
Analysis of a 10 megawatt space-based solar-pumped neodymium laser system
[NASA-CR-3774] 07 p1009 N84-16544
Theories of kinematic analysis and synthesis of spatial mechanisms containing lower and higher pairs
[AD-A134519] 07 p1016 N84-16594
Ultrastructure processing and environmental stability of advanced structural and electronic materials
[AD-A135107] 08 p1136 N84-17391
The effect of the artificial far field boundary on a finite different approximation of the Navier-Stokes equations for a compressible fluid
[AD-A135152] 08 p1157 N84-17536

Radar chaff: A bibliography
[AD-A135928] 09 p1302 N84-18513
Atomic and molecular gas phase spectrometry
[AD-A135971] 09 p1392 N84-19088
Ohmic contacts, irradiation effects, and thin film growth of GaAs and Al sub 1-x Ga sub x As
[NASA-CR-173257] 09 p1393 N84-19096
Ohmic versus rectifying contacts of Au to n-GaAs by ion sputtering 09 p1393 N84-19097
Magnetron sputtered gold contacts on n-GaAs
09 p1393 N84-19098
Effect of ion sputtering on the interface chemistry and electrical properties of Au/n-GaAs (100) Schottky contacts 09 p1393 N84-19099
Effect of ion sputtering on interface chemistry and electrical properties of an GaAs (100) Schottky contacts
09 p1393 N84-19100
A comparative thermodynamic analysis of impurity incorporation in vapor phase epitaxial InP and GaAs
[AD-A135739] 09 p1395 N84-19113
Theoretical-experimental analysis of the effects of grain boundaries on the electrical properties of SOI (Silicon-On-Insulator) MOSFETS
[AD-A136975] 10 p1486 N84-19718
Shuttle flight test of an advanced gamma-ray detection system
[AD-A136681] 10 p1496 N84-19789
Impact loading in filamentary structural composites
10 p1506 N84-19857
Development of the Earth's early crust: Implications from the Beartooth Mountains 11 p1679 N84-20959
Control of parameter-dependent systems, spatially-distributed systems, and systems with delays
[AD-A138036] 12 p1897 N84-22354
Ultraviolet OH emissions in H2-air diffusion flames
13 p1942 N84-22629
Dynamic response of concrete and concrete structures
[AD-A139294] 14 p2158 N84-23928
Crack-growth resistance of laminated hybrid composites 15 p2311 N84-24868
Corrosion control for reinforced concrete
[AD-A139974] 15 p2317 N84-24909
Shuttle flight test of an advanced gamma-ray detection system
[AD-A136157] 15 p2337 N84-25030
Supersymmetry in physics: An algebraic overview
[DE84-007289] 15 p2399 N84-25395
Prediction of transition states and thermochemistry for combustion reactions
[AD-A140738] 17 p2619 N84-26761
Bistatic radar cross sections of horizontally oriented chaff
[AD-A140903] 17 p2654 N84-26975
Streamflow modelling
[AD-A141281] 18 p2866 N84-28198
The development of a mathematical foundation for cellular image processing
[AD-A142173] 19 p3042 N84-29301
Defect studies in one MeV electron irradiated GaAs and in Al/sub x Ga/sub I-x As P-N junction solar cells
19 p3045 N84-29321
Surface and allied studies in silicon solar cells
[NASA-CR-173761] 19 p3049 N84-29351
Field ion microscopy and spectroscopy of hydrogen in metals
[DE84-012972] 21 p3368 N84-31366
Optimum control of electric motor drives for industrial robots
[DE84-012878] 21 p3395 N84-31543
A flow visualization investigation on selected shapes with emphasis on flow separation
[AD-A143804] 23 p3747 N84-33753

FLOW RESEARCH, INC., CAMBRIDGE, MASS.
Direct numerical simulation of reacting flows
11 p1611 N84-20549

FLOW RESEARCH, INC., KENT, WASH.
Flow-visualization study of the MOD-2 wind-turbine wake
[DE83-014391] 01 p0080 N84-10523
Experimental studies of unsteady phenomena in boundary layers
[AD-A133769] 05 p0880 N84-14471
Direct simulations of chemically reacting turbulent mixing layers
[NASA-CR-174640] 16 p2450 N84-25710

FLOWPOWER, INC., HUNTINGTON STATION, N.Y.
High yield wind energy resources in the mid-Hudson River basin
[PB84-184951] 20 p3234 N84-30530

FLUGHAFEN, FRANKFURT AM MAIN (WEST GERMANY).
The air traffic planning coordinator of the Federal Republic of Germany
[FACHTHEMEN-5] 07 p0945 N84-16130

FLUIDYNE ENGINEERING CORP., MINNEAPOLIS, MINN.
A self-contained captive trajectory system for a blowdown wind tunnel 14 p2099 N84-23596

FLUKE INST. FOR RENEWABLE ENERGY, BELLEVUE, WASH.
Ethyl alcohol fuel production from the Jerusalem artichoke
[DE83-013488] 02 p0203 N84-11326

FLUOROCHEM, INC., AZUSA, CALIF.
Research in energetic compounds
[AD-A137484] 10 p1454 N84-19497

FOM-INST. VOOR PLASMAFYSICA, RIJNHUIZEN, JUTPHAAS (NETHERLANDS).
A numerical model for diffusion of helium in a hydrogen plasma
[REPT-83-1471] 03 p0450 N84-12964
An absolute calibration method for electron cyclotron emission spectrometers
[REPT-83-149] 13 p1994 N84-22941
Electron Cyclotron Emission (ECE) measurements on the TORTUR 3 Tokamak
[REPT-83-148] 13 p2045 N84-23274
Transport of deuterium, tritium and helium in a Tokamak
[REPT-84-150] 17 p2766 N84-27567
Soft X-ray electron temperature measurements on TORTUR
[REPT-84-151] 17 p2766 N84-27568
Electrostatic drift models in toroidal geometry
[REPT-84-152] 17 p2767 N84-27569
Activities report in plasma physics
19 p3109 N84-29755

FONDAZIONE UGO BORDONI, ROME (ITALY).
Reduction of structural complexity in evaluating convolutions by polynomial transforms
[FUB-59-1981] 03 p0426 N84-12794
Economic study of long distance optical fibre links
[FUB-38-1982] 03 p0443 N84-12908
Description of the preliminary measurements carried out on the 11 GHz experimental facility at Roma-Monte S. Pancrazio
[FUB-39-1982] 05 p0671 N84-14411
Model of the behavior of the human visual system for the perception of contour elements
[FUB-44-1982] 05 p0714 N84-14677
System hardware for the implementation of frame protocol in packet switched networks
[FUB-58-1981] 05 p0731 N84-14803
Analysis of a network structure for algorithm testing
[FUB-1-1983] 05 p0732 N84-14804
The possibility of reduction of the subjective redundance of image signals with particular reference to contour coding
[FUB-43-1982] 05 p0748 N84-14911
Activities report in communications research performed in cooperation with Higher Institute for Posts and Telegraph (ISPT) 06 p0826 N84-15384
Spread spectrum transmission. Part 1: General characteristics
[FUB-49-1982-PT-1] 06 p0826 N84-15385
The small transmitter receiver stations in the Sirio experiment
[FUB-50-1982] 06 p0826 N84-15386
Statistic prediction techniques of rain attenuation starting from pluviometric statistics
[FUB-51-1982] 06 p0826 N84-15387
Maximum entropy linear prediction method
[FUB-48-1982] 06 p0902 N84-15857
Linear prediction methods
[FUB-52-1982] 06 p0902 N84-15858
Geometric methods for linear prediction
[FUB-54-1982] 06 p0903 N84-15859
Land mobile radio services: Acts of the 2nd Convention
[FUB-7-1983] 10 p1476 N84-19642
Development prospects for land mobile radio systems in Italy 10 p1477 N84-19650
The mobile radio service in the integrated network
10 p1477 N84-19652
Multiple access mobile radio systems for private networks 10 p1477 N84-19654
Data transmission at 1200 Baud in mobile or fixed radio links with interchannel interferences
10 p1478 N84-19655
Design of receiver transmitters for use in multiple access networks 10 p1478 N84-19656
Experimental evaluation of the interference of a frequency hopping signal on a television signal
10 p1478 N84-19659
Speaker recognition: Example of execution of a phonic test
[FUB-55-1982] 10 p1483 N84-19690
Analysis of receivers provided with equalizers for digital radio links in the presence of multipath fading
[FUB-56-1982] 10 p1483 N84-19691
Analysis of the behavior of some types of synchronizer for numerical radio links in the presence of atmospheric multipath transmission
[FUB-57-1982] 10 p1483 N84-19692
Attenuation data bank in the project COST 205: Generation, control, and preliminary analysis
[FUB-2-1983] 10 p1483 N84-19693
Test methodology for the level two subsystem of an X25 procedure for data terminal equipment
[FUB-3-1983] 10 p1483 N84-19694
An efficient method for the conversion to residue number systems and its application to convolutions
[FUB-53-1982] 14 p2220 N84-24319

FOOD AND DRUG ADMINISTRATION, SILVER SPRING, MD.
Mechanical behavior of ultra high molecular weight polyethylene
[PB84-175538] 16 p2473 N84-25851

FORD AEROSPACE AND COMMUNICATIONS CORP., COLORADO SPRINGS, COLO.
The evolution of Air Force Space Mission Command, control and communications
[AD-P002149] 14 p2137 N84-23814

FORD AEROSPACE AND COMMUNICATIONS CORP., PALO ALTO, CALIF.
Antenna tracking mechanism for geostationary satellites 15 p2348 N84-25091
On failure modeling
[AD-A141760] 19 p3087 N84-29600
The liquid bipropellant stage concept: Filling the OTV gap 20 p3140 N84-29936
Bipolar nickel-hydrogen batteries for aerospace applications 23 p3739 N84-33701
Fatigue induced cracking in aluminum LN-2 shroud of 39 foot vacuum chamber 24 p3862 N84-34476

FORD MOTOR CO., DEARBORN, MICH.
Time-temperature studies of high temperature deterioration phenomena in lubricant systems: Synthetic ester lubricants
[AD-A135464] 08 p1166 N84-17594
Comments on laser-excited fluorescence of the hydroxyl radical: Relaxation coefficients at atmospheric pressure, appendix 5
[NASA-CR-175442] 11 p1662 N84-20843
Shot noise limited detection of OH using the technique of laser induced fluorescence
[NASA-CR-175433] 11 p1662 N84-20844
HC quench layer formation in combustion processes
[DE84-005068] 12 p1823 N84-21883

FOREST PRODUCTS LAB., MADISON, WIS.
Long-term load performance of hardboard I-beams
[AD-A136091] 09 p1334 N84-18706
Effect of mechanical stress on the dielectric properties of wood
[AD-A140608] 17 p2680 N84-27069
How some test variables affect bending, tension, and compression values for particle panel products
[AD-A143627] 23 p3761 N84-33836

FOREST SERVICE, ASHEVILLE, N.C.
The hardwood resource on nonindustrial private forest land in the southeast Piedmont
[PB83-252759] 04 p0556 N84-13663

FOREST SERVICE, NEW ORLEANS, LA.
Forest statistics for southwest-north Alabama counties
[PB83-251314] 04 p0556 N84-13662
Forest statistics for southwest-south Alabama counties, Forest Service resource bulletin
[PB83-249763] 04 p0556 N84-13664
The forest resources of Puerto Rico, Forest Service resource bulletin
[PB83-249995] 04 p0556 N84-13665
Forest statistics for southeast Alabama counties, Forest Service resource bulletin
[PB83-250753] 04 p0556 N84-13666
Forest statistics for west central Alabama counties, Forest Service resource bulletin
[PB83-249961] 04 p0556 N84-13668

FOREST SERVICE, OGDEN, UTAH.
Forest area and timber resource statistcs for state and private lands in New Mexico, 1980, Forest Service resource bulletin
[PB83-251157] 04 p0556 N84-13667

FORSCHUNGSINSTITUT DER DEUTSCHEN BUNDESPOST, DARMSTADT (WEST GERMANY).
Contribution to the question bit error performance of CCITT study group 18
[FI-44-TBR-92] 12 p1810 N84-21799
Temperature dependance and temporal fluctuations of the birefringence of some single-mode fibers
[FI-452-TBR-56] 14 p2225 N84-24356
Investigation of noise in silicon avalanche photodiodes
[FI-14-TBR-11] 14 p2244 N84-24474
The frequency characteristics of optical components used for communication systems based on optical frequency-division multiplex
[FI-451-TBR-9] 15 p2407 N84-25451

Error margins by segmentation of speech signals with autocorrelation procedures for linear prediction coding systems
[FI-13-TBR-17] 16 p2481 N84-25911
Maximum likelihood decoding of AMI-coded digital transmission and additive Gaussian disturbance
[FI-44-TBR-91] 16 p2482 N84-25917
Reduction of the strut radiation of reflector antennas
[FI-454-TBR-35] 16 p2482 N84-25918
Dipole arrays with sector-shaped patterns for applications in mobile radio communications
[FI-454-TBR-34] 19 p3009 N84-29076
Height profile of the field strength of reception by multipath propagation in the cm wave range
[FI-455-TBR-75] 19 p3010 N84-29081
Generation of two stage random graphs
[FI-032-TB-16] 23 p3732 N84-33654

FORSCHUNGSINSTITUT FUER FUNK UND MATHEMATIK, WERTHOVEN (WEST GERMANY).
Estimation of the flight parameters of low flying aircraft using the radiated noise
[LFD-211] 15 p2259 N84-24569
Utilization of satellite observations to determine the mean orbital elements
[LFD-219] 15 p2269 N84-24627
Estimation of channel capacity of the time variable multipath channel
[LFD-208] 15 p2318 N84-24912
Pattern deformation of scalar antenna arrays due to near field backscatter
[LFD-210] 15 p2318 N84-24913
Transmission loss calculations for systems with antennas close to the ground using a digital data base
[LFD-218] 15 p2318 N84-24914
Estimating the trajectory of a sound source moving without acceleration using observations from a single stationary sensor
[LFD-215] 16 p2553 N84-26381

FORSCHUNGSINSTITUT FUER HOCHFREQUENZPHYSIK, WERTHHOVEN (WEST GERMANY).
Backscatter measurements on snow covered terrain at 94 GHz
[REPT-4-84] 20 p3172 N84-30144
Doppler-based target localization by a distributed system of omnidirectional sensors
[REPT-3-95] 23 p3729 N84-33636

FORSCHUNGSINSTITUT FUER INFORMATIONSVERARBEITUNG, KARLSRUHE (WEST GERMANY).
Coincident extraction of line objects from stereo image pairs
[AD-A133892] 05 p0697 N84-14576
Standard methods for image processing. Part 4: Operating instructions for the program system
[BMVG-FBWT-83-1] 08 p1213 N84-17915

FORSCHUNGSINSTITUT HOHENSTEIN, BOENNIGHEIM (WEST GERMANY).
Reduction of heat insulation upon soaking of the insulation layer
[BMFT-FB-T-83-193] 07 p1004 N84-16513

FORWARD (ROBERT L.), OXNARD, CALIF.
Alternate propulsion energy sources
[AD-A131939] 03 p0346 N84-12249

FOSTER-MILLER ASSOCIATES, INC., WALTHAM, MASS.
Design and development of military petroleum hoseline system
[AD-A134374] 07 p0960 N84-16222
Steam bottoming cycle for an adiabatic diesel engine
[NASA-CR-168255] 22 p3676 N84-33304

FOUNDATION FOR FIRE SAFETY, ROSSLYN, VA.
Smoke inhalation injury 04 p0511 N84-13350

FOURIER INST., GRENOBLE (FRANCE).
On a fundamental inequality and the singularities of an analytic function defined by the LC-Dirichletian element 13 p2032 N84-23177

FRANCHE-COMTE UNIV., BESANCON (FRANCE).
Reanalysis of mechanical structures 15 p2349 N84-25099

FRANKLIN INST., NEWARK, DEL.
Particle theory, cosmology and relativity
[DE84-003990] 11 p1760 N84-21489

FRANKLIN RESEARCH CENTER, PHILADELPHIA, PA.
Operation of the power information center: Performance of secretariat functions and information exchange activities in the advanced power field of the interagency advanced power group
[NASA-CR-174570] 02 p0302 N84-11981
Chronic effects of repeated mechanical trauma to the skin: A description of the problem in the workplace
[PB84-181767] 20 p3261 N84-30695

FRAUNHOFER-INST. FUER ANGEWANDTE FESTKOERPERPHYSIK, FREIBURG (WEST GERMANY).
Investigation of electrochromic effects for display application
[BMFT-FB-T-83-212] 10 p1457 N84-19519
Study of dry resistant techniques for electron beam lithography
[BMFT-FB-T-84-037] 19 p3028 N84-29206
Investigation of electro-optical effects in liquid crystals for high information density over a wide temperature range
[BMFT-FB-T-84-120] 23 p3831 N84-34304

FRAUNHOFER-INST. FUER ATMOSPHAERISCHE UMWELTFORSCHUNG, GARMISCH-PARTENKIRCHEN (WEST GERMANY).
Scientific analysis of existing data on aerosol dispersion and transport in a mountain valley
[AD-A142013] 20 p3238 N84-30555

FRAUNHOFER-INST. FUER BETRIEBSFESTIGKEIT, DARMSTADT (WEST GERMANY).
Comparison of fatigue life prediction based on local strains and nominal stresses respectively
[LBF-FB-169(183)] 10 p1518 N84-19937

FRAUNHOFER-INST. FUER FESTKOERPERTECHNOLOGIE, MUNICH (WEST GERMANY).
Technology of thin silicon foils in respect to the fabrication of monolithic integrated sensors
[BMFT-FB-T-33-089] 02 p0206 N84-11347
Fabrication of structures on semiconductors by X-rays: Comparison and optimization of mask technologies
[BMFT-FB-T-83-071] 02 p0300 N84-11968
Investigation of silicon materials for solar cells. Part 1: Segregation and gettering properties of certain contaminations. Part 2: Measurement of electrical parameters
[BMFT-FB-T-83-204] 10 p1531 N84-20026
Investigations to improve the stability of thermal oxides on polycrystalline and single crystalline silicon
[BMFT-FB-T-84-052] 19 p3113 N84-29780

FRAUNHOFER-INST. FUER INFORMATIONS- UND DATENVERARBEITUNG, KARLSRUHE (WEST GERMANY).
Fundamentals and physical limits of holographic memories with and without associative recall
[BMFT-FB-DV-83-002] 02 p0225 N84-11475
On-line preprocessing of gray scale images
[BMFT-FB-DV-83-004] 12 p1909 N84-22435
Improving the legibility of computer printouts
[BMFT-FB-DV-84-001] 16 p2542 N84-26315

FRAUNHOFER-INST. FUER SOLARE ENERGIESYSTEME, FREIBURG (WEST GERMANY).
Mass spectrometric analysis of silicon for solar cells
[BMFT-FB-T-83-134] 02 p0192 N84-11244

FRAUNHOFER INST. FUER WERKSTOFFMECHANIK, FREIBURG (WEST GERMANY).
Fracture behavior under impact
[AD-A136056] 09 p1333 N84-18702
Fracture behavior under impact
[AD-A136057] 09 p1333 N84-18703
On some current problems in experimental fracture dynamics
[AD-P003102] 16 p2466 N84-25807

FREIBURG UNIV. (WEST GERMANY).
Considerations on a permanent inventory and monitoring system for European forests 03 p0395 N84-12582
First results of the evaluations of the European SAR 580 data for agricultural and forestry purposes in test site D6, Freiburg (West Germany) 03 p0398 N84-12599
Remote sensing from space for forestry purposes 08 p1176 N84-17659
Investigation of spectral signatures of differently damaged trees and forest stands 23 p3769 N84-33892
Calculation of flood hydrographs using satellite-derived land-use information in the Dreisam watershed, S. W. Germany 23 p3771 N84-33904
Carbohydrate-protein interactions 23 p3805 N84-34123
Protein single crystal growth under microgravity 23 p3805 N84-34124

FREIE UNIV., BERLIN (WEST GERMANY).
Optimized He 2 cooling systems for space application. Behavior and handling of superfluid helium at G = 0, phase 1
[BMFT-FB-W-83-008] 02 p0207 N84-11349
Optimized He 2 cooling systems for space application. Behavior and handling of superfluid helium at g = 0, phase 2
[BMFT-FB-W-84-006] 19 p3025 N84-29185

FREQUENCY ELECTRONICS, INC., MITCHEL FIELD, N.Y.
Vibration resistant quartz crystal resonators
[AD-A132274] 04 p0526 N84-13459

FRITZ-HABER-INSTITUT, MAX-PLANCK-GESELLSCHAFT, BERLIN-DAHLEM (WEST GERMANY).
The development and study of sensitive and process-compatible polymers for X-ray lithography
[BMFT-FB-T-83-122] 02 p0202 N84-11314

FUEL INJECTION DEVELOPMENT CORP., CHERRY HILL, N.J.
Lean limit control for internal combustion engines
[DE84-006542] 15 p2344 N84-25071

FUJIKURA LTD., SAKURA (JAPAN).
Characteristics of heat and flame resistant optical fiber cables 11 p1726 N84-21260
Research and development of long heat pipes and their applications 20 p3170 N84-30126

FULMER RESEARCH INST. LTD., STOKE POGES (ENGLAND).
Field emission electric propulsion: Additional propellants: Further tests on indium and alloys
[R664] 06 p0796 N84-15186
Radiation effects in the Joint European Torus Experiment: Guidelines for preliminary design
[R857/2] 06 p0919 N84-15971
Review report of the third year's activities on the study survey of advanced materials
[R878] 12 p1790 N84-21675
Solidification of Al-Pb alloys under microgravity in Texus-7, preliminary report 17 p2613 N84-26730

FUNDACAO CALOUSTE GULBENKIAN, LISBON (PORTUGAL).
Elements of functions of a complex variable 06 p0906 N84-15881

FURUKAWA ELECTRIC CO. LTD., TOKYO (JAPAN).
Fabrication and evaluation of a high density multi fiber plastic connector 11 p1720 N84-21223

FUTURE SYSTEMS, INC., GAITHERSBURG, MD.
Advanced technology satellites in the commercial environment. Volume 1: Executive summary
[NASA-CR-174635-VOL-1] 11 p1621 N84-20611
Advance technology satellites in the commercial environment, volume 2
[NASA-CR-174635-VOL-2] 11 p1621 N84-20612

FWG ASSOCIATES, INC., TULLAHOMA, TENN.
Doppler lidar signal and turbulence study
[NASA-CR-170976] 08 p1163 N84-17574

G

G K SYSTEMS, INC., WESTLAKE VILLAGE, CALIF.
Advanced ICRF launchers for heating and current drive in large Tokamaks
[DE84-009092] 19 p3108 N84-29750

GA TECHNOLOGIES, INC., SAN DIEGO, CALIF.
Nonlinear theory of lower hybrid current drive II
[DE84-007292] 15 p2410 N84-25469
Corrosion behavior of experimental Ni-Cr-Mo-W-Al-Ti-Zr-C alloys in simulated advanced-HTGR helium
[DE84-010487] 18 p2814 N84-27867
Reduced equations in three dimensional geometry
[DE84-009401] 20 p3282 N84-30841
Density variation due to wave heating in Tokamak plasmas
[DE84-009402] 20 p3305 N84-30993
High power neutral beam heating on Doublet 3
[DE84-012471] 21 p3501 N84-32186
An improved method for the prediction of centrifugal compressor rotational-tone noise
[DE84-013345] 22 p3605 N84-32842
Behavior of orbits of two coupled oscillators
[DE84-013379] 22 p3659 N84-33197

GAERTNER (W. W.) RESEARCH, INC., STAMFORD, CONN.
Multispectral Data Processing System (MDPS)
[AD-A133426] 06 p0896 N84-15816

GALILEO ELECTRO-OPTICS CORP., STURBRIDGE, MASS.
Evaluation of multicomponent fluoride glass candidates for double crucible drawn optical fiber
[AD-A131932] 03 p0441 N84-12893

GARD, INC., NILES, ILL.
Ultrasonic inspection for roadwheel bondline quality
[AD-A132608] 05 p0690 N84-14531

GARDNER RESEARCH CO., PALO ALTO, CALIF.
Multipath link and modem design for satellite mobile communications
[ESA-CR(P)-1833] 12 p1809 N84-21793

GARHWAL UNIV., SRINAGAR (INDIA).
Studies in environmental geomorphology of Dudhatoli Ridge Garhwal, Himalay, India 23 p3770 N84-33902

GARRETT CORP., LOS ANGELES, CALIF.
Aircraft fuel tank inerting system
[AD-A141863] 19 p2964 N84-28785

GARRETT CORP., PHOENIX, ARIZ.
A turbomechanical thrust vector control for advanced intercontinental ballistic missiles
20 p3143 N84-29953
GARRETT TURBINE ENGINE CO., PHOENIX, ARIZ.
Executive summary, aerothermal modeling program, phase 1
[NASA-CR-174602] 03 p0348 N84-12263
Aerothermal modeling program, phase 1
[NASA-CR-168243-VOL-1] 03 p0348 N84-12264
Aerothermal modeling program, phase 1
[NASA-CR-168243-VOL-2] 03 p0348 N84-12265
Low-cost single-crystal turbine blades, volume 1
[NASA-CR-168218] 06 p0805 N84-15247
Advanced turbocharger design study program
[NASA-CR-174633] 12 p1822 N84-21879
Contact-stress analysis of elastic-viscoelastic interface conditions
[AD-A138834] 13 p1964 N84-22759
Dilution jet mixing program
[NASA-CR-174624] 17 p2609 N84-26702
Advanced Gas Turbine (AGT)
[NASA-CR-174694] 19 p3117 N84-29805
High temperature ceramic interface study
[NASA-CR-174728] 23 p3836 N84-34331
GAS RESEARCH INST., CHICAGO, ILL.
Guidelines for evaluation of commercial fossil fuels gasification concepts
[PB84-132570] 09 p1291 N84-18429
Critical issues in solid oxide fuel cell development
11 p1739 N84-21344
GATES LEARJET CORP., DENVER, COLO.
Determination of elevator and rudder hinge forces on the Learjet model 55 aircraft 06 p0860 N84-15604
GATES LEARJET CORP., WICHITA, KANS.
A brief review of aircraft controls research opportunities in the general aviation field 11 p1619 N84-20595
Computer aided modeling and post processing with NASTRAN analysis 22 p3609 N84-32869
GAUBIUS INST., LEIDEN (NETHERLANDS).
Fibrinogen, plasminogen and tissue-type plasminogen activator: Their role in the fibinolytic system
23 p3804 N84-34121
GCA CORP., BEDFORD, MASS.
Acid rain information book
[DE83-013693] 12 p1845 N84-22028
Locating and estimating air emissions from sources of chloroform
[PB84-200617] 22 p3619 N84-32935
Locating and estimating air emissions from sources of carbon tetrachloride
[PB84-200625] 22 p3620 N84-32936
GEC MACHINES PROPRIETARY LTD. FOUNDRY (ENGLAND).
Measuring quality achievements
08 p1168 N84-17605
GEC TURBINE GENERATORS, LEICESTER (ENGLAND).
Practical experience of engineering software production to a structured programming standard
05 p0723 N84-14744
GEC TURBINE GENERATORS LTD., WHETSTONE (ENGLAND).
Practical implications of the use of aluminide coatings for the corrosion protection of superalloys in gas turbines 23 p3703 N84-33476
GENERAL ACCOUNTING OFFICE, WASHINGTON, D. C.
Air Force and Navy trainer aircraft acquisition programs
[PB83-231076] 01 p0002 N84-10012
Bibliography of documents issued by the GAO (General Accounting Office) on matters related to ADP (Automatic Data Processing) January 1982 - December 1982
[PB83-238766] 02 p0273 N84-11788
Guidance needed if better Freedom of Information Act costs reports are desired
[PB83-242040] 02 p0303 N84-11987
Implications of joint NASA/DOD participation in Space Shuttle operations
[PB84-122472] 08 p1120 N84-17286
Proposed National Technical Information Service revolving fund
[PB84-103076] 08 p1239 N84-18097
Greater emphasis on testing needed to make computer software more reliable and less costly
[PB84-113513] 09 p1370 N84-18944
Safety standards on small passenger aircraft with nine or fewer seats are significantly less stringent than on larger aircraft
[PB84-142033] 12 p1767 N84-21526
Progress in improving program and budget information for Congressional use
[AD-A137491] 12 p1920 N84-22511
Air Force progress in implementing the phase 4 base level computer replacement program
[AD-A139378] 14 p2203 N84-24221
Studies of US universities' research equipment needs inconclusive
[AD-A141784] 19 p2970 N84-28821
The changing airline industry: A status report through 1982
[GAO/RCED-83-179] 20 p3127 N84-29858
Federal Aviation Administration's system for prioritizing airport grants
[PB84-181650] 20 p3133 N84-29893
National Aeronautics and Space Administration's first-year implementation of the Federal Managers' Financial Integrity Act
[PB84-186770] 20 p3314 N84-31044
Department of Energy's activities to limit distribution of certain unclassified scientific and technical information
[PB84-189158] 21 p3520 N84-32302
Legislation needed to clarify future of consumer protection and federal preemption after the Civil Aeronautics Board sunsets
[PB84-210103] 22 p3533 N84-32371
Analysis of benefits realized from multiyear contracting for the Black Hawk helicopter
[AD-A143485] 22 p3669 N84-33254
Alaska Land Conveyance Program: A slow, complex and costly process
[PB84-207265] 22 p3674 N84-33294
GENERAL ATOMIC CO., SAN DIEGO, CALIF.
Comparison of calculated results from 2 analytical models with measured data from a heat-exchanger flow test
[DE83-013071] 01 p0082 N84-10534
Acoustic resonance in heat-exchanger tube banks
[DE83-011413] 02 p0219 N84-11436
Superconducting magnets for gyrotron tubes
[DE83-012815] 02 p0299 N84-11962
Hardware and software configuration of the Doublet 3 diagnostic-data-acquisition computer system
[DE83-013427] 03 p0418 N84-12733
Comparative evaluation of existing concepts for a 10-tesla FED toroidal field coil
[DE83-012817] 03 p0429 N84-12815
Real-time diagnostic-data-acquisition system for the Doublet 3 Tokamak fusion experiment
[DE83-015871] 03 p0445 N84-12927
Nuclear design of a very-low-activation fusion reactor
[DE83-017470] 03 p0448 N84-12949
Variational-moment method for computing magnetohydrodynamic equilibria
[DE83-017477] 03 p0450 N84-12957
Low-activation fusion-reactor design studies
[DE83-017688] 04 p0608 N84-14014
Chemical vapor deposition of oriented tungsten foils for thermionic cathodes
[AD-A132379] 04 p0612 N84-14040
Numerical study of electromagnetic fluid turbulence
[DE84-002388] 05 p0750 N84-14923
Magnetic fluctuations in high-beta sub p Tokamak plasmas
[DE83-015872] 05 p0751 N84-14929
The 3-D MHD stability of high-beta free-boundary Tokamak plasmas with finite edge-pressure-gradient and limiter stabilization
[DE84-009188] 20 p3303 N84-30976
GENERAL DYNAMICS/ASTRONAUTICS, SAN DIEGO, CALIF.
A study of space station needs, attributes and architectural options. Midterm briefing, executive summary
[NASA-CR-173446] 18 p2805 N84-27808
GENERAL DYNAMICS/CONVAIR, FORT WORTH, TEX.
Space station needs, attributes and architectural options. Summary of major study activities and results. Space station program observations
[NASA-CR-173345] 09 p1267 N84-18275
Definition of technology development missions for early space stations orbit transfer vehicle serving. Phase 2, task 1: Space station support of operational OTV servicing
[NASA-CR-170984] 10 p1434 N84-19377
A study of space station needs, attributes and architectural options. Final briefing: Cost working group discussion session
[NASA-CR-173713] 18 p2806 N84-27810
Design study of test models of maneuvering aircraft configurations for the National Transonic Facility (NTF)
[NASA-CR-3827] 23 p3696 N84-33422
GENERAL DYNAMICS/CONVAIR, SAN DIEGO, CALIF.
Design of advanced technology maneuvering aircraft models for the National Transonic Facility
14 p2098 N84-23590
A study of space station needs, attributes and architectural options. Volume 1: Executive summary
[NASA-CR-173705] 18 p2805 N84-27803
A study of space station needs, attributes and architectural options. Volume 2: Technical. Book 1: Mission requirements
[NASA-CR-173706] 18 p2805 N84-27804
A study of space station needs, attributes, and architectural options, volume 2, technical. Book 2: Mission implementation concepts
[NASA-CR-173690] 18 p2805 N84-27806
A study of space station needs, attributes and architectural options, volume 2, technical. Book 3: Economic benefits, costs and programmatics
[NASA-CR-173689] 18 p2805 N84-27807
Design study of test models of maneuvering aircraft configurations for the National Transonic Facility (NTF)
[NASA-CR-3827] 23 p3696 N84-33422
GENERAL DYNAMICS CORP., FORT WORTH, TEX.
Development of V/STOL methodology based on a higher order panel method
[NASA-CR-166491] 01 p0004 N84-10024
The engineering significance of defects in composite structures 01 p0035 N84-10222
System architecture: Key to future avionics capabilities 06 p0768 N84-15035
A video bus for weapon system integration
06 p0771 N84-15051
Integration of ICNIA into advanced high performance fighter aircraft 06 p0772 N84-15059
Color display technology in advanced fighter cockpits
06 p0772 N84-15061
Lessons learned in the development of the F-16 flight control system 06 p0777 N84-15092
TAS: A Transonic Aircraft/Store flow field prediction code
[NASA-CR-3721] 06 p0781 N84-15114
Development of fatigue and crack propagation design and analysis methodology in a corrosive environment for typical mechanically-fastened joints. Volume 1: Phase I documentation
[AD-A136414] 09 p1331 N84-18691
Development of fatigue and crack propagation design and analysis methodology in a corrosive environment for typical mechanically-fastened joints. Volume 2: State-of-the-art assessment
[AD-A136415] 09 p1331 N84-18692
Distributed processing tools definition. Volume 1: Hardware and software technologies for tightly-coupled distributed systems
[AD-A137686] 11 p1704 N84-21105
Distributed processing tools definition. Volume 2: Application of software engineering technology
[AD-A137687] 11 p1704 N84-21106
Distributed processing tools definition. Volume 3: An integrated software engineering environment for distributed processing software development
[AD-A137688] 11 p1704 N84-21107
A wind tunnel database using RIM
12 p1891 N84-22313
Study of aerodynamic technology for single-cruise-engine VSTOL fighter/attack aircraft, phase 1
[NASA-CR-166268] 18 p2788 N84-27693
Durability methods development, volume 7
[AD-A142400] 20 p3128 N84-29865
USAF durability design handbook: Guidelines for the analysis and design of durable aircraft structures
[AD-A142424] 20 p3128 N84-29866
Adhesive bond and composite strength screening system developmental study
[FZM-7184] 20 p3161 N84-30073
Application of JOVIAL (J-73) to digital flight controls
[AD-P003525] 21 p3330 N84-31129
A common 1553B I/O channel for the F-16
[AD-P003546] 21 p3333 N84-31150
Embedded information transfer technology assessment
[AD-A142649] 21 p3391 N84-31518
GENERAL DYNAMICS CORP., GROTON, CONN.
Characterization of fiber composite flywheels by ultrasonic imaging techniques
[DE84-004689] 10 p1452 N84-19487
GENERAL DYNAMICS CORP., SAN DIEGO, CALIF.
Auxiliary heat-exchanger flow-distribution test
[DE83-012698] 01 p0082 N84-10535
Electromagnetic waves near dielectric structures
[AD-A132630] 05 p0670 N84-14403
Photovoltaic concentrator pointing dynamics and plasma interaction study 08 p1111 N84-17224
Crew and life support: ECLSS
09 p1268 N84-18280
Inherent problems in designing two-failure tolerant electromechanical actuators 15 p2348 N84-25088
A study of space station needs, attributes and architectural options. Volume 2: Technical. Book 1: Mission requirements. Appendixes 1 and 2
[NASA-CR-173769] 18 p2805 N84-27805

A study of space station needs, attributes and architectural options, midterm briefing
[NASA-CR-173714] 18 p2805 N84-27809
Application of 1553B to MRASM (Medium Range Air to Surface Missile): A systems look
[AD-P003540] 21 p3332 N84-31144
MIL-STD-1553B in MRASM (Medium Range Air to Surface Missile): The designer's challenge
[AD-P003541] 21 p3333 N84-31145

GENERAL DYNAMICS CORP., ST. LOUIS, MO.

A study of space station needs, attributes and architectural options
[NASA-CR-173997] 24 p3859 N84-34459

GENERAL DYNAMICS CORP., WARREN, MICH.

An evaluation of automated control of the oxyfuel cutting process for M1 vehicle fabrication
[AD-A134073] 05 p0688 N84-14520

GENERAL DYNAMICS/FORT WORTH, TEX.

Advanced Ultra-Violet (UV) aircraft fire detection system. Volume 3: Ground Support Equipment (GSE) for system check-out
[AD-A130298] 01 p0006 N84-10039
Elements for successful implementation of computing standards
[AD-P003566] 21 p3336 N84-31171
Quantum leap in avionics
[AD-P003584] 21 p3340 N84-31189

GENERAL ELECTRIC CO., ARLINGTON, VA.

Representation of information in software documentation
[AD-A131470] 02 p0273 N84-11783
Documentation of concurrent programs
[AD-A131476] 02 p0273 N84-11784

GENERAL ELECTRIC CO., BINGHAMTON, N.Y.

Cycloconverter on the all-electric airplane
01 p0011 N84-10069
Permanent magnet generator rotor containment study
[AD-A131252] 01 p0138 N84-10908
Pulse width modulated DC link converter development
[AD-A134486] 07 p0997 N84-16467

GENERAL ELECTRIC CO., BURLINGTON, VT.

Neutron radiographic study of liquid propellant combustion 13 p1949 N84-22669

GENERAL ELECTRIC CO., CINCINNATI, OHIO.

Installation of electric generators on turbine engines
01 p0010 N84-10061
Blade loss transient dynamics analysis with flexible bladed disk
[NASA-CR-168176] 04 p0486 N84-13193
Clean catalytic combustor program
[NASA-CR-168323] 06 p0789 N84-15151
Aerothermal modeling. Executive summary
[NASA-CR-168330] 06 p0790 N84-15152
Aerothermal modeling, phase 1. Volume 1: Model assessment
[NASA-CR-168296-VOL-1] 06 p0790 N84-15155
Aerothermal modeling, phase 1. Volume 2: Experimental data
[NASA-CR-168296-VOL-2] 06 p0790 N84-15156
Broad specification fuels combustion technology program
[NASA-CR-168179] 06 p0812 N84-15283
Tip cap for a rotor blade
[NASA-CASE-LEW-13654-1] 13 p1931 N84-22560
NASA/General Electric broad-specification fuels combustion technology program
14 p2107 N84-23638
Analytical fuel property effects: Small combustors
14 p2108 N84-23639
Analysis of fuel system technology for broad property fuels 14 p2108 N84-23644
Experimental investigation of shock-cell noise reduction for dual-stream nozzles in simulated flight comprehensive data report. Volume 1: Test nozzles and acoustic data
[NASA-CR-168336-VOL-1] 14 p2220 N84-24323
Experimental investigation of shock-cell noise reduction for dual-stream nozzles in simulated flight comprehensive data report. Volume 2: Laser velocimeter data, static pressures and shadowgraph photos
[NASA-CR-168336-VOL-2] 14 p2220 N84-24324
Combustor technology for broadened-properties fuels
15 p2289 N84-24736
Status of understanding for bearing materials
15 p2342 N84-25060
Free jet feasibility study of a thermal acoustic shield concept for AST/VCE application: Single stream nozzles
[NASA-CR-3758] 19 p3096 N84-29661
JT15D simulated flight data evaluation
[NASA-CR-172322] 22 p3536 N84-32387
High temperature electronics technology
[AD-A143571] 22 p3586 N84-32714
Experimental investigation of shock-cell noise reduction for single-stream nozzles in simulated flight, comprehensive data report. Volume 1: Test nozzles and acoustic data
[NASA-CR-168234-VOL-1] 22 p3652 N84-33148
Experimental investigation of shock-cell noise reduction for single-stream nozzles in simulated flight, comprehensive data report. Volume 2: Laser velocimeter data
[NASA-CR-168234-VOL-2] 22 p3652 N84-33149
Experimental investigation of shock-cell noise reduction for single-stream nozzles in simulated flight, comprehensive data report. Volume 3: Shadowgraph photos and facility description
[NASA-CR-168234-VOL-3] 22 p3652 N84-33150
Air modulation apparatus
[NASA-CASE-LEW-13524-1] 23 p3694 N84-33410
Nozzle performance calibration and turbomachinery operational analysis of Turbo-Powered Simulators (TPS) for the NASA-Langley EET propulsion airframe integration investigation
[NASA-CR-165949] 23 p3695 N84-33416
Subsonic/transonic stall flutter investigation of a rotating rig
[NASA-CR-174625] 23 p3695 N84-33417
Gas turbine engine design considerations as related to alloys of high critical element content
23 p3703 N84-33470

GENERAL ELECTRIC CO., DAYTONA BEACH, FLA.

The Program Planning Review (PPR): Milestone or millstone?
[AD-P003493] 21 p3514 N84-32259

GENERAL ELECTRIC CO., EVENDALE, OHIO.

Energy efficient engine: Flight propulsion system, preliminary analysis and design update
[NASA-CR-167980] 02 p0179 N84-11170
Aircraft gas turbine guide
[GE-AEG-607R(10/80)] 07 p0953 N84-16183
Effects of surface chemistry on hot corrosion life
[NASA-CR-174683] 15 p2295 N84-24774

GENERAL ELECTRIC CO., FAIRFIELD, CONN.

Space station needs, attributes and architectural options. Part 1: Summary
[NASA-CR-175382] 09 p1267 N84-18270

GENERAL ELECTRIC CO., HUNTSVILLE, ALA.

Analysis and calculation of macrosegregation in a casting ingot, exhibits C and E
[NASA-CR-171030] 14 p2127 N84-23752

GENERAL ELECTRIC CO., LANHAM, MD.

Interactive digital image processing for terrain data extraction, phase 4
[AD-A140197] 16 p2510 N84-26107
Thematic Mapper Image Processing System (TIPS) processing status 20 p3206 N84-30368
LANDSAT-4 MSS geometric correction: Methods and results 20 p3213 N84-30409

GENERAL ELECTRIC CO., LYNN, MASS.

Rotorcraft contingency power study
[NASA-CR-174675] 15 p2261 N84-24580

GENERAL ELECTRIC CO., OAK RIDGE, TENN.

A proposed RF-technology R/D plan for the United States
[DE84-000643] 04 p0522 N84-13434

GENERAL ELECTRIC CO., PHILADELPHIA, PA.

New developments in composite-flywheel containment
[DE83-012583] 03 p0383 N84-12497
Parametric testing and evaluation of a free-piston Stirling engine/linear-compressor system
[DE83-017262] 04 p0545 N84-13590
Design and fabrication of a prototype system for photovoltaic residences in the southwest
[DE82-016271] 05 p0700 N84-14592
Copper vapor laser scale demonstration
[AD-A133327] 06 p0850 N84-15543
Investigation of articulated panel dynamics
08 p1112 N84-17230
Structures and mechanisms 09 p1269 N84-18286
Space Station needs, attributes and architectural options. Volume 2, book 2, part 2, Task 2: Information management system
[NASA-CR-173317] 09 p1271 N84-18301
Composite ring-disk flywheel design, fabrication and testing
[DE84-004761] 10 p1453 N84-19488
Liner environment effects study
11 p1613 N84-20556
Technical and economic feasibility of Stirling cycle industrial heat pumps
[DE84-005486] 11 p1653 N84-20793
Design and development of a stand-alone concentrator photovoltaic array
[DE84-005860] 11 p1675 N84-20930
Stirling engine applications study
[PB84-148055] 12 p1823 N84-21888
Materials properties data base computerization
12 p1889 N84-22303
Design and development of a hybrid tracker point focus fresnel passively cooled concentrator photovoltaic array
[DE84-006365] 13 p2009 N84-23031
Improving slipring performance
15 p2347 N84-25086
Space station needs, attributes, and architectural options. Volume 1. Executive summary
[NASA-CR-173710] 18 p2806 N84-27816
LANDSAT-4 system description
20 p3205 N84-30361
An overview of the Thematic Mapper geometric correction system 20 p3206 N84-30367
On orbit surfacing of thermal control surfaces
[NASA-CR-171121] 21 p3352 N84-31266
Design and selection of bypass diodes
22 p3582 N84-32688

GENERAL ELECTRIC CO., PITTSFIELD, MASS.

Compact gas insulated transformer
[DE84-006426] 12 p1814 N84-21822

GENERAL ELECTRIC CO., SCHENECTADY, N. Y.

Mobile radio alternative systems study. Volume 1: Traffic model
[NASA-CR-168062] 01 p0061 N84-10402
Mobile radio alternative systems study. Volume 2: Terrestrial
[NASA-CR-168063] 01 p0061 N84-10403
Mobile radio alternative systems study satellite/terrestrial (hybrid) systems concepts
[NASA-CR-168064] 01 p0061 N84-10404
Environmental crack-growth-measurement techniques
[DE83-900734] 01 p0097 N84-10630
Development of a cesium-vapor-lamp system for triggering photothyristors
[DE83-902691] 02 p0215 N84-11407
Extraction and compilation of numerical and factual data 07 p1086 N84-17063
Progress toward a coordinated system of databases covering the engineering properties of materials
07 p1087 N84-17068
Evaluation of advanced technologies for power transformers
[DE84-004046] 10 p1487 N84-19719
Theoretical studies of metal clusters and of chemisorption on metals
[AD-A138175] 12 p1791 N84-21683
Applications of laser scattering probes to turbulent diffusion flames
[AD-A138207] 12 p1792 N84-21685
Method for determining how to operate and control wind turbine arrays in utility systems
[DE84-005817] 12 p1813 N84-21817
Employment of adaptive learning techniques for the discrimination of acoustic emissions
[AD-A138142] 12 p1899 N84-22366
Cathode materials development for carbonate fuel cells
[DE84-010033] 15 p2363 N84-25179
SEM (Scanning-Electron-Microscopy) studies of magnetic domains in amorphous metals
[AD-A140718] 17 p2624 N84-26793
Development of sintered Si3N4 for high performance thermomechanical applications
[AD-A140795] 17 p2627 N84-26807
Long-term materials test program
[DE84-008899] 18 p2815 N84-27870
Improved charge injection device and a focal plane interface electronics board for stellar tracking
[NASA-CR-171066] 19 p3012 N84-29092
Utilization of amorphous metals in electric motors. Power systems technology program
[DE84-009483] 19 p3018 N84-29136
Long Term Materials Test Program
[DE84-014791] 23 p3719 N84-33579
Investigation of rapidly solidified Ni3Al-based alloys
[AD-A144174] 24 p3883 N84-34604

GENERAL ELECTRIC CO., ST. PETERSBURG, FLA.

Human factors: A necessary tool for industry
[DE84-007531] 15 p2385 N84-25304
Estimating reliability of an electrical insulating system
[DE84-010633] 18 p2834 N84-27993
Success with Data Management 4 at the DOE Pinellas Plant
[DE84-008021] 19 p3116 N84-29802
A review of anode phenomena in vacuum arcs
[DE84-012371] 21 p3395 N84-31547

GENERAL ELECTRIC CO., SUNNYVALE, CALIF.

RADC (Rome Air Development Center) DDP (Distributed Data Processing) topology evaluation
[AD-A134701] 08 p1212 N84-17909

GENERAL ELECTRIC CO., SYRACUSE, N.Y.

A study of a class of detection waveforms having nearly ideal range-Doppler ambiguity properties
[AD-A132597] 05 p0669 N84-14401
Extraterrestrial radio noise and its effect on radar performance 06 p0870 N84-15662

Pulsed heterodyne CO2 laser/scanner system. Volume 1: Assembly report
[AD-A135059] 08 p1164 N84-17577
Pulsed heterodyne CO2 laser/scanner system. Volume 2: Operating instructions
[AD-A135060] 08 p1164 N84-17578
Application of symbolic computation to the analysis of mechanical systems, including robot arms
[AD-P002940] 14 p2197 N84-24180
Integration of monolithic microwave integrated circuits into phased array antenna systems
[AD-P003403] 19 p3014 N84-29107
Acousto-Optic Adaptive Processing (AOAP)
[AD-A141445] 19 p3100 N84-29689
Architecture, hardware and software issues in fielding the next generation DOD processors
[AD-P003581] 21 p3339 N84-31186

GENERAL ELECTRIC CO., UTICA, N. Y.
Criteria for accelerated random vibration tests with non-linear damping 10 p1513 N84-19902

GENERAL MOTORS CORP., INDIANAPOLIS, IND.
Advanced Gas Turbine (AGT) technology development
[NASA-CR-168235] 06 p0852 N84-15554
Advanced Gas Turbine (AGT) Technology Project
[NASA-CR-174629] 18 p2849 N84-28089

GENERAL MOTORS RESEARCH LABS., WARREN, MICH.
Amorphous zirconium-nickel films formed by solid state reactions
[DE84-003570] 07 p0976 N84-16326

GENERAL POWER CORP., PAOLI, PA.
Wave engine technology development
[AD-A139175] 14 p2155 N84-23911

GENERAL RESEARCH CORP., SANTA BARBARA, CALIF.
RF systems in space. Volume 2: Space-based radar analyses
[AD-A133735] 05 p0668 N84-14394
RF systems in space. Volume 1: Space antennas frequency (SARF) simulation
[AD-A133734] 05 p0668 N84-14395
COBOL automated verification system, implementation phase
[AD-A141063] 19 p3074 N84-29504
J73AVS: A JOVIAL J73 automated verification system
[AD-P003521] 21 p3329 N84-31125

GENERAL SOFTWARE CORP., LANDOVER, MD.
LANDSAT-4 horizon scanner performance evaluation
[E84-10079] 07 p1022 N84-16626
LANDSAT-4 horizon scanner full orbit data averages
[E84-10080] 07 p1022 N84-16627

GENEVA UNIV. (SWITZERLAND).
Determinants connected with a trace on a Banach algebra 22 p3635 N84-33036
Morphometric and biophysical study of bone tissue in immobilization-induced osteoporosis in the growing rat 23 p3809 N84-34152

GENOA UNIV. (ITALY).
Turbine aerodynamic design using through-flow theory. Meridional through-flow calculation 06 p0840 N84-15474

GEO-CENTERS, INC., NEWTON, MASS.
Characterization of hydroxylammonium nitrate (HAN) at various pressures and temperatures
[AD-A131574] 02 p0203 N84-11324
Measurement of friction and wear on modified surfaces
[AD-A132364] 04 p0544 N84-13583
Evaluation of radiation damage to Metal-Oxide-Semiconductor (MOS) devices
[AD-A133593] 06 p0923 N84-16002
Quantitative Secondary Ion Mass Spectroscopy (SIMS)
[AD-A134195] 08 p1125 N84-17315
Intrinsic and extrinsic properties of fiber optic sensor materials
[AD-A135893] 09 p1389 N84-19072
Use of a polyacetylene cathode in primary lithium-thionyl chloride cells
[AD-A136791] 13 p1986 N84-22896

GEOLOGICAL SURVEY, ALBANY, N.Y.
Microseismic monitoring for evidence of geothermal heat in the capital district of New York
[PB83-248807] 04 p0556 N84-13659
Water resources data for New York, water year 1982. Volume 2: Long Island
[PB84-119536] 09 p1339 N84-18742
Water resources data for New York, water year 1982. Volume 1: Eastern New York excluding Long Island
[PB84-114198] 09 p1339 N84-18744
Water resources data for New York, water year 1982. Volume 3: Western New York
[PB84-119544] 10 p1527 N84-20003

GEOLOGICAL SURVEY, ALEXANDRIA, VA.
Alaska's mineral resources
[DE83-016599] 03 p0401 N84-12623

GEOLOGICAL SURVEY, ANCHORAGE, ALASKA.
Water resources data for Alaska, water year 1982
[PB84-119569] 09 p1340 N84-18753

GEOLOGICAL SURVEY, AUSTIN, TEX.
Water resources data Texas: Water year, 1982. Volume 1: Arkansas River Basin, Red River Basin, Sabine River Basin, Neches River Basin, Trinity River Basin and intervening coastal basins
[PB84-133271] 10 p1527 N84-20006

GEOLOGICAL SURVEY, BATON ROUGE, LA.
Base line for determining local, small-scale vertical movements in Louisiana
[DE84-002569] 05 p0704 N84-14619
Water resources data for Louisiana, water year 1982. Volume 1: Central and Northern Louisiana
[PB84-118546] 09 p1339 N84-18750

GEOLOGICAL SURVEY, BISMARCK, N. DAK.
Water resources data for North Dakota: Water year, 1982
[PB84-136589] 10 p1528 N84-20008

GEOLOGICAL SURVEY, BOSTON, MASS.
Water resources data for New Hampshire and Vermont, Water Year 1982
[PB84-161868] 14 p2170 N84-24000
Water resources data for Massachusetts and Rhode Island, water year 1982
[PB84-180009] 20 p3229 N84-30521

GEOLOGICAL SURVEY, CARSON CITY, NEV.
Water resources data for Nevada, water year 1982
[PB84-120385] 09 p1340 N84-18755

GEOLOGICAL SURVEY, CHAMPAIGN, ILL.
Geology of carbonate aggregate resources of Illinois, Illinois mineral notes
[PB83-251140] 04 p0565 N84-13725

GEOLOGICAL SURVEY, CHARLESTON, W. VA.
Water resources data for West Virginia, water year 1982
[PB84-120161] 09 p1340 N84-18754

GEOLOGICAL SURVEY, COLUMBIA, S.C.
Water resources data for South Carolina, water year 1982
[PB84-162577] 14 p2170 N84-24003

GEOLOGICAL SURVEY, DENVER, COLO.
Compilation of selected faults and lineaments that may be relevant to a study of seismic activity in southern Nevada and part of adjacent California
[DE83-017085] 03 p0409 N84-12673
Geology of faults exposed in trenches in Crater Flat, Nye County, Nevada
[DE84-000181] 04 p0564 N84-13716
Application of Heat Capacity Mapping Mission data to regional geologic analysis for mineral and energy resource evaluation
[E84-10078] 07 p1021 N84-16625
Principal facts for gravity stations in the Nevada portion of the Kingman 1 degree by 2 degree quadrangle
[PB84-103084] 08 p1189 N84-17749
Aeromagnetic map of Yucca Mountain and surrounding regions, southwest Nevada
[DE84-003920] 10 p1526 N84-19995
Southern Great Basin seismological data report for 1981 and preliminary data analysis
[DE84-005687] 15 p2369 N84-25213
Principal facts, base station descriptions and plots for gravity stations on and near the Butte 1 degree x 2 degree quadrangle, Montana
[PB84-168103] 15 p2369 N84-25216
Interpretations of magnetic anomalies at a potential repository site located in the Yucca Mountain area, Nevada test site
[DE84-013723] 23 p3798 N84-34085

GEOLOGICAL SURVEY, FLAGSTAFF, ARIZ.
Evolution of the Uranus-Neptune planetesimal swarm: Consequences for the Earth 13 p2074 N84-23445
High-resolution color images of Io 13 p2075 N84-23446
Characterization of surficial geologic units on Venus from Pioneer Venus radar data: A progress report 13 p2076 N84-23454
Mercury: New identification of ancient multi-ring basins and implications for geologic evolution 13 p2077 N84-23463
Impact of Upheaval Dome, Utah 13 p2078 N84-23465
Volcanism in the Valles Marineris 13 p2080 N84-23480
Dark streaks on talus slopes, Mars 13 p2084 N84-23499
Small-scale polygons on Mars 13 p2085 N84-23505
Multiprocess evolution of landforms in the Kharga Region, Egypt: Applications to Mars 13 p2086 N84-23511
Multi-image photometric solutions for the Galilean satellites 13 p2087 N84-23522
Rapid extraction of relative topography from Viking orbiter images. 2: Application to irregular topographic features 13 p2087 N84-23523
Radar backscatter modelling 13 p2088 N84-23525
Ancient volcano-tectonic structures of the Olympus Mons Region, Mars 13 p2089 N84-23535
Mars apleostratigraphy 13 p2090 N84-23536
Valles Marineris layered deposits: Implications of origin 13 p2090 N84-23537
The Galilean Satellite Geological Mapping Program, 1983 13 p2090 N84-23541
The geology of Thaumasia-northeast quadrant 15 p2427 N84-25579
Preliminary results of albedo correlation between Europa and Ganymede 15 p2427 N84-25581
Intraband radiometric performance of the LANDSAT-4 Thematic Mapper 20 p3209 N84-30389
Tests of low-frequency geometric distortions in LANDSAT-4 images 20 p3211 N84-30397

GEOLOGICAL SURVEY, HARRISBURG, PA.
Water resources data for Pennsylvania, Water Year 1982. Volume 1: Delaware River Basin
[PB84-161579] 14 p2170 N84-23999

GEOLOGICAL SURVEY, HELENA, MONT.
Water resources data for Montana, water year 1982. Volume 1: Hudson Bay Basin, Missouri River Basin
[PB84-117506] 09 p1339 N84-18749
Water resources data for Montana, water year 1982. Volume 2: Columbia River Basin
[PB84-118561] 09 p1340 N84-18752

GEOLOGICAL SURVEY, HURON, S. DAK.
Water resources data for South Dakota, water year 1982
[PB84-117175] 09 p1339 N84-18748

GEOLOGICAL SURVEY, IDAHO FALLS, IDAHO.
Water resources data for Idaho, water year 1982. Volume 1: Great Basin and Snake River Basin above King Hill
[PB84-118470] 09 p1338 N84-18740
Water resources data for Idaho, water year 1982. Volume 2: Upper Columbia River Basin and Snake River Basin below King Hill
[PB84-118488] 09 p1338 N84-18741

GEOLOGICAL SURVEY, INDIANAPOLIS, IND.
Water resources data for Indiana, water year 1982
[PB84-114990] 09 p1339 N84-18747

GEOLOGICAL SURVEY, IOWA CITY, IOWA.
Water resources data: Iowa water year, 1982
[PB84-137215] 10 p1528 N84-20009

GEOLOGICAL SURVEY, LAKEWOOD, COLO.
Water resources data for Colorado, water year 1982. Volume 3: Dolores River Basin, Green River Basin, and San Juan River Basin
[PB84-120146] 09 p1339 N84-18743
Water resources data for Colorado, water year 1982. Volume 2: Colorado River Basin above Dolores River
[PB84-120138] 10 p1527 N84-20004
The Lf-Hf evolution of KREEP 11 p1756 N84-21461

GEOLOGICAL SURVEY, LITTLE ROCK, ARK.
Water resources data for Arkansas, water year 1982
[PB84-181296] 20 p3229 N84-30522

GEOLOGICAL SURVEY, LOUISVILLE, KY.
Water resources data, Kentucky water year 1982
[PB84-162320] 14 p2171 N84-24004

GEOLOGICAL SURVEY, MENLO PARK, CALIF.
Study of seismic response at Stations 6 and 7, El Centro Strong Motion Array, Imperial Valley, California
[PB84-119924] 09 p1346 N84-18795
The structure of the Ionian lithosphere 13 p2073 N84-23435
Ring spacing of Mercurian multi-ring basins and basin ring formation 13 p2078 N84-23464
Ode to gravity: Depth/diameter for fresh craters on Mercury 13 p2079 N84-23470
Martian dust storms witnessed by Viking Lander 1 13 p2081 N84-23487
Freezing of Martian streams under climatic conditions 13 p2083 N84-23498
Strong motion program report
[USGS-CIRC-914] 14 p2175 N84-24026
Stratigraphic and volcano-tectonic relations of Crater Flat Tuff and some older volcanic units, Nye County, Nevada
[DE84-010923] 20 p3242 N84-30584
MULAP4: A multi-linear analysis program for ground motion studies of horizontally layered systems
[PB84-182815] 20 p3243 N84-30591
Temperature profiles from Salt Valley, Utah
[DE84-900996] 21 p3444 N84-31854
Assessment of low-temperature geothermal resources of the United States, 1982
[DE84-007193] 22 p3615 N84-32902

GEOLOGICAL SURVEY, ORLANDO, FLA.
Water resources data for Florida, water year 1982. Volume 1B: Northeast Florida ground water
[PB84-161876] 14 p2170 N84-24001
Water resources data for Florida, water year 1982. Volume 1A: Northeast Florida surface water
[PB84-162338] 14 p2170 N84-24002
GEOLOGICAL SURVEY, PORTLAND, OREG.
Water resources data for Oregon, water year 1982. Volume 1: Eastern Oregon
[PB84-164326] 14 p2171 N84-24005
Water resources data for Oregon, water year 1982. Volume 2: Western Oregon
[PB84-164334] 14 p2171 N84-24006
GEOLOGICAL SURVEY, RESTON, VA.
Evaluation of radiometric and geometric characteristics of LANDSAT-D imaging system
[E84-10050] 04 p0553 N84-13643
Application of Heat Capacity Mapping Mission data to regional geologic analysis for mineral and energy resource evaluation
[E84-10078] 07 p1021 N84-16625
Research, investigations and technical developments: National Mapping Program, 1982
[USGS-OPEN-FILE-83-568] 10 p1524 N84-19985
Land use and land cover digital data
[GS-CIRC-895-E] 10 p1525 N84-19987
Geochemistry of volcanic rocks from the Wawa greenstone belt 11 p1680 N84-20963
Symposium Proceedings: A National program for the assessment and development of the mineral resources of the United States Exclusive Economic Zone
[US-CIRC-929] 18 p2866 N84-28192
Chapter 6: The US Geological Survey program and plans in the EEZ 18 p2866 N84-28193
Analysis of LANDSAT-4 TM data for lithologic and image mapping purpose 20 p3209 N84-30390
GEOLOGICAL SURVEY, RICHMOND VA.
Water resources data for Virginia, water year 1982
[PB84-118553] 09 p1340 N84-18751
GEOLOGICAL SURVEY, SALT LAKE CITY, UTAH.
Water resources data for Utah, water year 1982
[PB84-120484] 09 p1340 N84-18756
GEOLOGICAL SURVEY, SAN JUAN (PUERTO RICO).
Water resources data for Puerto Rico, 1981 - 1982
[PB84-114701] 09 p1339 N84-18746
GEOLOGICAL SURVEY, ST. PAUL, MINN.
Water resources data for Minnesota, water year 1982. Volume 1: Great Lakes and Souris-Red-Rainy River Basins
[PB84-163047] 14 p2171 N84-24007
Water resources data for Minnesota water year, 1982. Volume 2: Upper Mississippi and Missouri River Basins
[PB84-163054] 14 p2171 N84-24008
GEOLOGICAL SURVEY, TRENTON, N.J.
Water resources data for New Jersey, water year 1982. Volume 1: Atlantic Slope Basins, Hudson River to Cape May
[PB84-119726] 09 p1338 N84-18736
Water resources data for New Jersey, water year 1982. Volume 2: Delaware River Basin and tributaries to Delaware Bay
[PB84-119734] 09 p1338 N84-18737
GEOLOGICAL SURVEY, TUSCALOOSA, ALA.
Water resources data for Alabama, water year 1982
[PB84-183250] 20 p3229 N84-30523
GEOLOGICAL SURVEY, URBANA, ILL.
Water resources data for Illinois, water year 1982. Volume 1: Illinois except Illinois River Basin
[PB84-120112] 09 p1338 N84-18738
Water resources data for Illinois, water year 1982. Volume 2: Illinois River Basin
[PB84-120120] 09 p1338 N84-18739
GEOLOGICAL SURVEY, VANCOUVER, WASH.
The 19 March 1982 eruption and lahar at Mount Saint Helens: Implications for Martian outflow channels?
13 p2083 N84-23495
Drainage evolution in the debris avalanche deposits near Mount Saint Helens, Washington
13 p2083 N84-23496
GEOLOGICAL SURVEY, WASHINGTON, D.C.
Analysis of the world distribution of metal-rich subsea manganese nodules
[USGS-CIRC-886] 03 p0395 N84-12577
Evidence for acid-precipitation-induced trends in stream chemistry at hydrologic bench-mark station
[USGS-CIRC-910] 10 p1531 N84-20029
The Marine Geology Program of the US Geological Survey
[USGS-CIRC-906] 11 p1677 N84-20944
Earthquakes in the United States, January - March 1982
[USGS-CIRC-896-A] 11 p1677 N84-20945
US Geological Survey Polar Research Symposium. Abstracts with program
[USGS-CIRC-911] 14 p2160 N84-23934
Antarctic mapping and international coordination
14 p2160 N84-23935
Configuration of eastern Gondwanaland
14 p2160 N84-23936
Mineral resources of Antarctica
14 p2160 N84-23937
Speculations on the petroleum resources of Antarctica
14 p2160 N84-23938
Planned marine geophysical geological surveys of the Wilkes Land and Ross Sea margins
14 p2160 N84-23939
Satellite image atlas of glaciers: The Polar regions
14 p2161 N84-23940
Wind, waves and swell in the Antarctic marginal ice zone by SEASAT radar altimeter 14 p2161 N84-23941
Surveying in Antarctica during the International Geophysical Year 14 p2161 N84-23942
The Duffek intrusion of Antarctica and a survey of its minor metals related to possible resources
14 p2161 N84-23943
Crystallization of the Duffek intrusion, Antarctica
14 p2161 N84-23944
Geophysical investigations of the Dufek intrusion and the surrounding region 14 p2161 N84-23945
Geology of the Neptune Range, Antarctica
14 p2162 N84-23946
Proterozoic to mesozoic mobile-belt geology, Pensacola Mountains, Antarctica 14 p2162 N84-23947
Sedimentology of the Horlick Formation (Lower Devonians), Ohio Range, Transantarctic Mountains
14 p2162 N84-23948
Small-scale magnetic features of the polar regions
14 p2162 N84-23949
Paleomagnetic studies in Antarctica
14 p2162 N84-23950
Mars-analog studies in Wright and Victoria Valleys, Antarctica 14 p2163 N84-23951
An isotopic and chemical study of Lake Vanda and Don Juan Pond, Antarctica 14 p2163 N84-23952
Climatic significance of lacustrine deposits around Lake Vanda and Don Juan Pond, Antarctica
14 p2163 N84-23953
Program for mapping Antarctica
14 p2163 N84-23954
The use of satellite technology in the search for meteorites in Antarctica aut 01Meunier, Tony K.
14 p2163 N84-23955
Glacological and geological studies of Antarctica with satellite remote sensing technology
14 p2163 N84-23956
Modeling the movement at the polar ice cap at the South Pole 14 p2164 N84-23957
Tectonic evolution of the Arctic continental margin in the Beaufort and Chukchi Seas: Evidence from seismic reflections 14 p2164 N84-23958
The Arctic platform in the national petroleum reserve in Alaska: Deposition, deformation and petroleum potential 14 p2164 N84-23959
Oil and gas resources of the North Slope, Alaska
14 p2164 N84-23960
Petroleum source rock richness, type and maturity for four rock units on the Alaskan North Slope: Are they sources for the two oil types? 14 p2164 N84-23961
Emerging recognition of the nonfuel mineral resources of Arctic Alaska 14 p2164 N84-23962
Coal occurrence, quality and resource assessment, national petroleum reserve in Alaska
14 p2164 N84-23963
Permafrost and the geothermal regime
14 p2165 N84-23964
Glaciation in Arctic Alaska 14 p2165 N84-23965
A pleistocene sand desert in Arctic Alaska
14 p2165 N84-23966
Sedimentary facies on an ice dominated shelf, Beaufort Sea, Alaska 14 p2165 N84-23967
Quaternary sedimentation on the Alaskan Beaufort shelf: Sediment sources, glacioeustatism and regional tectonics 14 p2165 N84-23968
Geochemical detection of prospective petroleum areas in Arctic regions 14 p2166 N84-23972
Hydrology of the North Slope, Alaska
14 p2166 N84-23973
Geothermal resources of southern Idaho
[USGS-CIRC-866] 14 p2168 N84-23988
Summary of workshops concerning regional seismic source zones of parts of the conterminous United States convened by the US Geological Survey 1979 - 1980, Golden, Colorado
[USGS-CIRC-898] 14 p2174 N84-24025
Earthquakes in the United States, April - June 1982
[USGS-CIRC-896-B] 14 p2175 N84-24026
A review of classical silicate-rock analysis and recommended modifications of classical methods of analysis
[USGS-CIRC-864] 14 p2175 N84-24027
GEOLOGICAL SURVEY, WOODS HOLE, MASS.
Georges Bank monitoring program: Analysis of trace metals in bottom sediments during the second year of monitoring
[PB84-169465] 16 p2534 N84-26269
Panel 1A: Geologic studies related to oil and gas development in the EEZ 18 p2866 N84-28194
Environmental geologic studies on the United States mid- and north Atlantic outer continental shelf area, 1980-1982. Volume 1: Executive summary
[PB84-187939] 20 p3252 N84-30639
Environmental geologic studies on the United States mid- and north Atlantic outer continental shelf area, 1980-1982. Volume 2: Mid-Atlantic region
[PB84-187947] 20 p3252 N84-30640
Environmental geologic studies on the United States mid-and north Atlantic outer continential shelf area, 1980-1982. Volume 3: North Atlantic region
[PB84-187954] 20 p3252 N84-30641
GEOLOGICAL SURVEY OF CANADA, OTTAWA (ONTARIO).
The Archean crust in the Wawa-Chapleau-Timmins region. A field guidebook prepared for the 1983 Archean Geochemistry-Early Crustal Genesis Field Conference
11 p1681 N84-20969
GEOLOGICAL SURVEY OF GREENLAND, COPENHAGEN (DENMARK).
Glaciological applications of LANDSAT images in connection with hydropower investigations in West Greenland 03 p0398 N84-12598
GEORGE WASHINGTON UNIV., WASHINGTON, D.C.
An analysis of shock coalescence including three-dimensional effects with application to sonic boom prediction 02 p0288 N84-11890
Vibration response of geometrically nonlinear elastic beams to pulse and impact loading
[NASA-CR-174495] 03 p0388 N84-12527
NASA space biology accomplishments, 1982
[NASA-TM-86244] 04 p0488 N84-13206
Invariant means on semi-topological transformation semigroups 04 p0593 N84-13912
Photon-stimulated ion desorption from condensed CO and N2
[AD-A133925] 05 p0647 N84-14254
Understanding localized behavior in the Auger spectra of covalent systems such as graphite
[AD-A133924] 05 p0647 N84-14255
Comparison of autoionization and photoelectron spectra of CO
[AD-A133902] 05 p0647 N84-14256
Multiangular scanning absorption techniques for three dimensional combustion diagnostics
[AD-A133811] 05 p0648 N84-14263
Research on nonsteady flow induction
[AD-A133894] 05 p0680 N84-14468
Static and dynamic stiffness reduction of graphite/epoxy composite laminates under fatigue loading
06 p0797 N84-15194
Research in some applied, and the modelling aspects of, reliability theory
[AD-A133424] 06 p0855 N84-15567
The parabolic approximation for sound propagation in stratified moving media 06 p0907 N84-15893
Comparison of photon stimulated dissociation of gas phase, solid and chemisorbed water
[AD-A134986] 08 p1125 N84-17314
A program of research in environmental modeling
[NASA-CR-173281] 08 p1182 N84-17697
Terrestrial whisker growth experiments which anticipate some special effects of a space station environment
[NASA-CR-175440] 11 p1627 N84-20647
Effects of a porous plug on orifice induced static pressure error 12 p1764 N84-21507
A computational method for predicting the effects of varying Reynolds number and dynamic pressure on flexible wings at transonic speeds 12 p1764 N84-21508
Discrete random media techniques for microwave modeling of vegetated terrain 12 p1832 N84-21939
Discrete random media techniques for microwave modeling of vegetated terrain 12 p1834 N84-21952
Convexity and concavity properties of the optimal value function in parametric nonlinear programming
[AD-A138202] 12 p1881 N84-22264
Generalized convexity and concavity properties of the optimal value function in parametric nonlinear programming
[AD-A138220] 12 p1882 N84-22265
Investigations of the structure and electromagnetic interactions of few body systems
[DE84-006852] 12 p1902 N84-22388
Energetics of vortex ring formation
[AD-A138795] 13 p1927 N84-22539
Sedimentology and invertebrate paleontology of Triassic and Jurassic Lacustrine deposits, Culpeper Basin, northern Virginia 13 p2014 N84-23064

KINSYN and micro KINSYN: User-friendly computer systems for linkage design 15 p2312 N84-24873
The compressible aerodynamics of rotating blades using an acoustic formulation 16 p2442 N84-25670
A modified modal method for nonlinear dynamic analysis of structures 16 p2501 N84-26052
Determination of failure characteristics of materials and structures
[AD-A142310] 19 p3037 N84-29262
A steady-state version of a dynamic optimal budgeting problem
[AD-A142261] 20 p3312 N84-31034
Hydrogeology, digital solute-transport simulation, and geochemistry of the Lower Cretaceous aquifer system near Baltimore, Maryland 21 p3425 N84-31728
The Quaternary history and stratigraphy of the Cape Fear River valley, North Carolina 21 p3438 N84-31815
Solution and sensitivity analysis of RESDYN model 1a using SENSUMT
[AD-A142788] 21 p3515 N84-32267
Publications of the NASA space biology program for 1980 - 1984
[NASA-TM-86857] 22 p3628 N84-32990
The design of a quantal response experiment: An empirical approach
[AD-P003843] 24 p3939 N84-34931

GEORGETOWN UNIV., WASHINGTON, D.C.

Ultrasonic reflection from solid halfspaces and from solid plates
[AD-A129886] 01 p0140 N84-10916
Study of the effect of adsorbed ions on the electrosorption of organic molecules and the kinetics of formation of condensed films
[AD-A137892] 11 p1730 N84-21286
Characterization and scattering of bounded ultrasonic beams
[AD-A138491] 12 p1899 N84-22369

GEORGIA INST. OF TECH., ATLANTA.

Marine Air Traffic Control And Landing System (MATCALS) investigation
[AD-A130309] 01 p0007 N84-10045
Metal-insulator-metal junctions as surface sources of intermodulation
[AD-A130451] 01 p0043 N84-10279
The effects of powder metallurgical processing and intermediate thermal mechanical treatment on the fatigue properties of high strength aluminum alloys
[AD-A130790] 01 p0044 N84-10282
Interface bonding of shotcrete reinforced brick masonry assemblages, volume 1
[PB83-223206] 01 p0058 N84-10382
Interface bonding of shotcrete reinforced brick masonry assemblages. Volume 2: Appendices
[PB83-223214] 01 p0059 N84-10383
Supplemental grounding of extending EMP collectors
[AD-A131255] 01 p0067 N84-10440
Modeling of parasitic effects in discrete passive components
[AD-A130458] 01 p0070 N84-10460
Kinetic studies of the reactions of CH3O2 with NO2 and OH with HNO3
[AD-A130922] 01 p0105 N84-10685
Measurement of lung function using the magnetometer system
[AD-A130841] 01 p0114 N84-10738
Dynamic programming algorithms and analyses for nonserial networks, part 1
[AD-A130885] 01 p0122 N84-10795
A fast heuristic based on spacefilling curves for minimum-weight matching in the plane
[AD-A129857] 01 p0129 N84-10846
In-situ light scattering techniques for determining aerosol size distributions and optical constants
[AD-A131363] 01 p0148 N84-10970
FEED (Field Exploitation of Elevation Data) evaluation
[AD-A131318] 02 p0277 N84-11812
Study of an asymptotic method for helicopter rotor blade aerodynamic loads 03 p0327 N84-12135
Interaction of stress waves and cracks using a second order accurate finite difference method 03 p0387 N84-12522
A case study of gravity wave-convective storm interactions 03 p0406 N84-12659
Ripple-reduction poloidal-field coils for Tokamak reactors
[DE83-009532] 03 p0445 N84-12922
A viscous-inviscid interactive procedure for rotational flow in cascades of two dimensional airfoils of arbitrary shape
[NASA-CR-174609] 04 p0478 N84-13149
Characterization of high-temperature vapor-phase species and vapor-solid interactions of import to combustion and gasification processes in the energy technologies
[DE83-015166] 04 p0494 N84-13242
Study of turbulent flow in a wing-fuselage type juncture 05 p0628 N84-14128
The effect of microstructure on the properties of high strength aluminum alloys
[AD-A133997] 05 p0653 N84-14296
Behavior of aluminum on the burning surface of a solid propellant 05 p0662 N84-14351
Chemical stabilization of subgrade soil for the strategic expeditionary landing field
[AD-A132876] 05 p0663 N84-14356
The use of cyclone modeling in the erection of precast segmental aerial construction
[AD-A132885] 05 p0663 N84-14358
Continuously deforming finite element method for moving free surface heat transfer problems 05 p0683 N84-14489
Bending of beams, plates and laminates: Refined theories and comparative studies 05 p0691 N84-14540
Analysis of the nonlinear large deformation behavior of composite cylindrical shells
[AD-A133761] 05 p0693 N84-14549
Effects of neutral beam injection on impurity transport in Tokamaks
[DE84-001857] 05 p0750 N84-14926
Combustion at the interface of an oxidizer-fuel slab system 06 p0800 N84-15215
Computation of steady internal flows using integral representation methods with finite series expansions 06 p0833 N84-15418
An assumed deviatoric stress-velocity-pressure mixed finite element method for unsteady convective, incompressible viscous flow 06 p0833 N84-15420
Far Infrared Radiometric Spectrometer (FIRRS)
[AD-A133552] 06 p0847 N84-15527
Nonlinear analysis of thin shells by the hybrid mixed finite-element method 06 p0856 N84-15578
Mechanical property characterization of F-100/934 graphite-epoxy composite material 06 p0928 N84-16031
Visual cues in the simulation of low-level flight
[AD-A135461] 08 p1202 N84-17839
Inorganic analysis in a controlled ecological life support system
[NASA-CR-173299] 08 p1204 N84-17852
Techniques for the inorganic analysis in a controlled ecological life support system 08 p1204 N84-17853
Standard research materials: Feces and urine 08 p1205 N84-17854
Notions of dependency satisfaction
[AD-A135303] 08 p1211 N84-17902
Development of a prototype experiment for treating CELSS and PCELSS wastes to produce nutrients for plant growth
[NASA-CR-173167] 09 p1277 N84-18341
Acoustic signature from flames as a combustion diagnostic tool
[AD-A136447] 09 p1278 N84-18347
Antenna pattern measurements to characterize the out-of-band behavior of reflector antennas
[AD-A136199] 09 p1304 N84-18525
Modeling of transient heat pipe operation
[NASA-CR-173305] 09 p1312 N84-18575
Program mutation: An approach to software testing
[AD-A135775] 09 p1368 N84-18933
Computational solution of random equations
[AD-A136418] 09 p1375 N84-18978
Dissipative effects in the beam-beam interaction of intersecting storage rings
[DE84-004871] 09 p1388 N84-19064
Turbulence generated pressure fluctuations in a class of interior flows 10 p1423 N84-19306
Mechanical behavior of superplastically formed sandwich panels 10 p1453 N84-19490
Radiofrequency radiation effects on excitable tissues
[AD-A137772] 11 p1695 N84-21056
Binary classification and the subtractive approach
[AD-A137716] 11 p1701 N84-21099
Linear or nonlinear wave problems with input sets
[AD-A137811] 11 p1714 N84-21177
Analysis of excess attenuation in optical fibers subjected to low temperatures 11 p1722 N84-21232
Operational evaluation of a new 435-mHz radiation facility
[AD-A138474] 12 p1773 N84-21564
FEED (Field exploitation of Elevation Data) software documentation
[AD-A137977] 12 p1879 N84-22246
Rocket motor aeroacoustics 13 p1944 N84-22642
Effect of oscillations upon velocity distributions in simulated solid propellant flow environments 13 p1945 N84-22646
Dependence of burning rate of AP-polymer sandwiches on thickness of the binder laminae 13 p1946 N84-22653
Conditions for inflammation of accumulated aluminum in the propellant combustion zone 13 p1947 N84-22660
Heterogeneous diffusion flame stabilization: Constant density results 13 p1952 N84-22689
Computation of radiation in stratified media by Fast Fourier Transform (FFT)
[AD-A138647] 13 p1982 N84-22869
Achievements and plans of the Solar Thermal Advanced Research Center
[DE84-005480] 14 p2172 N84-24010
Analysis of the Von Karman equations by group methods
[AD-P002948] 14 p2198 N84-24188
Saturated tearing modes in Tokamaks, renewal proposal
[DE84-006851] 14 p2229 N84-24370
Holographic data storage crystals for LDEF (A0044) 15 p2277 N84-24677
Investigation of the effects of long-duration exposure on active optical system components (S0050) 15 p2279 N84-24687
The two-slab burning problem
[AD-A139818] 15 p2287 N84-24719
Combustion of ammonium perchlorate-polymer sandwiches
[AD-A139873] 15 p2302 N84-24814
Friction in elastohydrodynamic contacts 15 p2316 N84-24897
Temperature effects in elastohydrodynamically lubricated contacts 15 p2340 N84-25049
Distributed and decentralized control in fully distributed processing systems
[AD-A140120] 15 p2418 N84-25520
Path-independent integrals in dynamic fracture mechanics
[AD-P003111] 16 p2468 N84-25816
Evaluation of process systems for effective management of aluminum finishing wastewaters and sludges
[PB84-170661] 16 p2520 N84-26178
A numerical analysis for blade tip loadings on a thick bladed hovering helicopter rotor 17 p2599 N84-26658
Corrosion behavior of ion plated films 17 p2621 N84-26777
A new second order accurate finite difference method for dynamic response of elastic-plastic finite deformation problems 17 p2678 N84-27056
Development of an EM-based lifeform monitor
[AD-A140583] 17 p2745 N84-27430
A model of human problem solving in dynamic environments
[AD-A140862] 17 p2748 N84-27446
Solar Total Energy Project (STEP) performance analysis of high temperature energy storage subsystem 18 p2874 N84-28249
Static versus dynamic presentation of visual cues in simulated low level flight
[AD-P003360] 18 p2913 N84-28473
Artificial intelligence applied to spectrum estimation
[AD-A142202] 19 p3007 N84-29062
Multichannel linear predictive coding of color images
[AD-A142260] 19 p3008 N84-29069
Procedures for signal reconstruction from noisy phase
[AD-A142185] 19 p3016 N84-29120
An iterative method for restoring noisy blurred images
[AD-A142201] 19 p3016 N84-29122
A three-dimensional dynamical-chemical model of the mesosphere and lower thermosphere for upper atmospheric research
[AD-A142200] 19 p3054 N84-29379
Pilot interaction with automated airborne decision making systems
[NASA-CR-173782] 19 p3068 N84-29464
Software support for fully Distributed/Loosely coupled processing systems, volume 1
[AD-A141500] 19 p3076 N84-29518
Software support for fully distributed/loosely coupled processing systems. Volume 2: Appendix-selected papers
[AD-A141501] 19 p3076 N84-29519
Morphological skeleton representation and coding of binary images
[AD-A142250] 19 p3079 N84-29536
A graph theoretic technique for the generation of systolic implementations for shift-invariant flow graphs
[AD-A142251] 19 p3090 N84-29615
A maximum-likelihood approach to image segmentation by texture
[AD-A142323] 19 p3090 N84-29619
Molecular beam epitaxy of HgCdTe
[AD-A141574] 19 p3110 N84-29761
Interference drag in a simulated wing-fuselage juncture
[NASA-CR-3811] 20 p3126 N84-29853

A procedure for designing exact reconstruction filter banks for tree-structured subband coders
[AD-A142345] 20 p3173 N84-30150
A review of the literature on training simulators. Translators: Transfer of training and simulator fidelity
[AD-A142732] 20 p3263 N84-30700
Spectral and invertibility properties of band matrices
[AD-A142637] 20 p3261 N84-30831
Rotation and impurity transport in a Tokamak plasma with directed neutral beam injection
[DE84-008014] 20 p3306 N84-30996
Inelastic and dynamic fracture and stress analyses
21 p3421 N84-31697
Investigation of neutral beam driven impurity flow reversal as an impurity control method in future Tokamaks
[DE84-008655] 21 p3501 N84-32191
A survey of the methods of MHD analysis of magnetic islands
[DE84-008658] 21 p3502 N84-32197
Nonlinear elastic stability analysis of plane frames
22 p3607 N84-32853
Random vibrations of multicomponent structures
22 p3607 N84-32854
The design and performance of a parallel computer architecture for simulation 22 p3637 N84-33054
The influence of grain structure, testing temperature and environment on the monotonic and low cycle fatigue behavior of a high strength aluminum-copper-lithium alloy 23 p3716 N84-33556
Research in millimeter wave techniques
[NASA-CR-173964] 24 p3893 N84-34655
Two-dimensional signal processing and storage and theory and applications of electromagnetic measurements
[AD-A144266] 24 p3898 N84-34680
Turbulent boundary layers developing over compliant surfaces
[AD-A144268] 24 p3900 N84-34698
Estimating the number and duration of cognitive processes using the within-task subtractive method
[AD-A144617] 24 p3937 N84-34923

GEORGIA STATE UNIV., ATLANTA.
A study of heat release rate distribution in a gas turbine combustor by acoustic measurements
22 p3536 N84-32385

GEORGIA UNIV., AIKEN, S.C.
Fates and biological effects of polycyclic aromatic hydrocarbons in aquatic systems
[PB83-250191] 04 p0561 N84-13698

GEORGIA UNIV., ATHENS.
Effects of surface area and pore size upon liquid chromatographic fractionations of polystyrene oligomers using ethylphenyl derivatized silicas
[DE83-014632] 01 p0051 N84-10327
Role of calcium and calmodulin in plant cell regulation
02 p0263 N84-11725
Comparative assessment of LANDSAT-4 MSS and TM data quality for mapping applications in the southeast
[E84-10040] 04 p0551 N84-13633
Splines and the Galerkin method for solving the integral equations of scattering theory
[CSIR-TWISK-257] 04 p0586 N84-13873
Some new results on Grubbs' estimators
[AD-A133922] 05 p0739 N84-14852
Analysis and comparison of some integer factoring algorithms 08 p1224 N84-17995
Operation of the Computer Software Management and Information Center (COSMIC)
[NASA-CR-173353] 10 p1558 N84-20207
Polyphosphorus compounds containing phosphorus-nitrogen bonds
[AD-A137722] 11 p1628 N84-20655
Comparative assessment of LANDSAT-D MSS and TM data quality for mapping applications in the Southeast
[E84-10138] 16 p2506 N84-26086
Quantum mechanical studies of heavy ion scattering processes
[DE84-010124] 19 p3103 N84-29711
Geometric accuracy of LANDSAT-4 MSS image data
20 p3212 N84-30406
Twelfth NASTRAN Users' Colloquium
[NASA-CP-2328] 22 p3609 N84-32864

GEOSCIENCE, LTD., SOLANA BEACH, CALIF.
Thermal property measurement techniques and some results for CdTe
[AD-A131455] 02 p0299 N84-11959
Thermal property measurement techniques and some results for CdTe
[AD-A133899] 05 p0753 N84-14936
Thermal property measurement techniques and some results for CdTe and (Hg,Cd)Te alloys
[AD-A139375] 14 p2242 N84-24462

GERMAN AIR FORCE, FUERSTENFELDBRUK (WEST GERMANY).
Hearing loss associated with helicopter flight
16 p2537 N84-26285

GERMAN ARMY, BUECKBURG (WEST GERMANY).
Disorientation in helicopter flight
16 p2536 N84-26284

GERMANISCHER LLOYD, HAMBURG (WEST GERMANY).
Examination of the final design of the rotor blades GROWIAN 1
[BMFT-FB-T-83-306] 15 p2362 N84-25174

GESAMTHOCHSCHULE, ESSEN (WEST GERMANY).
Wave propagation in elastic-viscoplastic bodies
[REPT-23] 19 p3034 N84-29242

GESAMTHOCHSCHULE, KASSEL (WEST GERMANY).
Air pollution, environmental policy, and economics in the Federal Republic of Germany
[GHK-07] 05 p0701 N84-14601

GESELLSCHAFT FUER ELEKTRISCHEN STRASSEN-VERKEHR M.B.H., ESSEN (WEST GERMANY).
Development of a new charger system
[BMFT-FB-T-83-305] 15 p2328 N84-24977

GESELLSCHAFT FUER ELEKTROMETALLURGIE M.B.H., DUESSELDORF (WEST GERMANY).
MoO3, ex MoS2, with further processing of the metal-bearing waste sulfuric acid generated in the process
[BMFT-FB-T-83-297] 15 p2366 N84-25196

GESELLSCHAFT FUER ELEKTRONISCHE INFORMATIONSVERABEITUNG M.B.H., AACHEN (WEST GERMANY).
The software engineering environment project model (PROMOD) 05 p0722 N84-14737

GESELLSCHAFT FUER KOHLEVERFLUESSIGUNG M.B.H., SAARBRUECKEN (WEST GERMANY).
Preparation of a design study for the construction of a 2 million tons/annum commercial scale hydrogenation plant
[BMFT-FB-T-83-135] 03 p0405 N84-12652

GESELLSCHAFT FUER MATHEMATIK UND DATENVERARBEITUNG, BONN (WEST GERMANY).
Software development based on multigrid techniques
[GMD-84] 17 p2751 N84-27459

GESELLSCHAFT FUER STRAHLEN- UND UMWELTFORSCHUNG M.B.H., MUNICH (WEST GERMANY).
Report on measurements of terrestrial radiation in the Schwandorf area and the radiological load of the river Naab
[GSF-A-6/83] 16 p2520 N84-26180

GETTY OIL CO., LOS ANGELES, CALIF.
An introduction to geometric programming
[AD-P002962] 14 p2200 N84-24202

GEWERKSCHAFT AUGUSTE VICTORIA, MARL (WEST GERMANY).
Enhanced safety by means of clear information on hazards and operational disturbances by a plain language communication device
[BMFT-FB-HA-84-010] 18 p2830 N84-27971

GHENT UNIV. (BELGIUM).
Inventoring and monitoring of landscape as a natural and cultural resource 03 p0397 N84-12594
Measuring landscape information content and distribution on a SAR-580 image
03 p0397 N84-12596
Interpretability of wetland on SEASAT-A imagery in the polderland of Flanders: A structural approach
03 p0397 N84-12597
Iterative techniques for the solution of elliptic finite difference equations 06 p0835 N84-15435
Iterative solution of the finite difference potential equations for subsonic and transonic flows
06 p0835 N84-15436
Completely continuous multipliers from L sub 1 (G) into L sub infinity (G) 22 p3636 N84-33047

GHS RESEARCH AND DEVELOPMENT, SCOTTSDALE, ARIZ.
Electrical and structural characterization of web dendrite crystals 18 p2939 N84-28643

GINER, INC., WALTHAM, MASS.
Studies involving high temperature desulfurization/regeneration reactions of metal oxides for fuel cell development
[DE84-003096] 18 p2876 N84-28261

GKSS-FORSCHUNGSZENTRUM GEESTHACHT (WEST GERMANY).
Windpowered generators. Test field Pellworm. The test of the Aeroman system
[GKSS-83-E-15] 02 p0243 N84-11589
Effect of specimen geometry on stable crack growth by nonlinear material behavior
[GKSS-83-E-38] 10 p1463 N84-19554
Wind energy test field Pellworm: Tests of the plant Bruemmer BW 120S
[GKSS-83-E-42] 13 p2010 N84-23035
Meteorological investigations at the wind test site Pellworm
[GKSS-83-E-61] 13 p2018 N84-23082
Parametrization of the turbulent diffusion in the atmosphere using the turbulent energy equation(s)
[GKSS-83-E-60] 14 p2174 N84-24019
Review of the application of fracture mechanics: Possibilities and actual limits
[GKSS-83-E-63] 15 p2349 N84-25098
Hydrogen chloride measurements with a Differential Absorption and Scattering (DAS) lidar in the marine atmosphere 23 p3779 N84-33965
State-of-the art Differential Absorption and Scattering (DAS) lidar for SO2 and NO2 23 p3780 N84-33966
The influence of perturbing water properties in chlorophyll mapping 23 p3780 N84-33970
Measuring and data evaluation systems at the wind test site Pellworm
[GKSS-84-E-12] 23 p3791 N84-34044

GLASGOW UNIV. (SCOTLAND).
Bias in polarimetric estimators
09 p1412 N84-19235
An algorithm for the prediction of unsteady potential flow about an arbitrary aerofoil
[GU-AERO-8306] 15 p2257 N84-24553
An investigation of three-dimensional stall development on NACA 23012 and NACA 0012 aerofoils
[GU-AERO-8300] 15 p2257 N84-24554
A simplified method of evaluating aircraft handling qualities using a pilot transfer function model
[GU-AERO-8302] 15 p2264 N84-24595
Fast estimation of state feedback gain for the design of aircraft autopilots
[GU-AERO-8305] 15 p2264 N84-24596

GLEASON WORKS, ROCHESTER, N.Y.
Advanced finishing methods for spiral bevel and hypoid gears 09 p1293 N84-18451

GLOBAL GEOCHEMISTRY CORP., CANOGA PARK, CALIF.
Analysis of gases in the Earth's crust
[PB83-243972] 02 p0251 N84-11643

GLOBAL MARINE DEVELOPMENT, INC., IRVINE, CALIF.
Marine seismic System(MSS) deployment. Phase IV: Investigation of techniques and deployment scenarios for installation of tri-axial seismometer in a borehole in the deep ocean
[AD-A132300] 04 p0563 N84-13710
Panel 2A: Offshore oil and gas technology assessment 18 p2866 N84-28196
Marine Seismic System (MSS) deployment. Phase 5: An investigation of techniques and deployment scenarios for installation of triaxial seismometer in a borehole in the deep ocean
[AD-A142873] 21 p3444 N84-31850

GOERZ (JERRY W.), LEXINGTON, KY.
Improved generator for use with low-speed rotating machines
[DE84-000375] 05 p0676 N84-14448

GOETTINGEN UNIV. (WEST GERMANY).
Development of a device for evaluation of interferograms
[BMFT-FB-T-84-097] 21 p3407 N84-31613
IUE observations of multiple nucleus galaxies
24 p3971 N84-35148

GOODELL-GRIVAS, INC., SOUTHFIELD, MICH.
Accident surrogates for use in analyzing highway safety hazards. Volume 1: Executive summary
[PB84-174739] 16 p2477 N84-25883
Accident surrogates for use in analyzing highway safety hazards, volume 2
[PB84-174747] 16 p2478 N84-25884
Accident surrogates for use in analyzing highway safety hazards. Volume 3: Appendices A-G
[PB84-174754] 16 p2478 N84-25885

GOODRICH (B. F.) CO., AKRON, OHIO.
Linear and nonlinear viscoelastic constitutive relations of cord reinforced elastomers
[DE84-002371] 05 p0660 N84-14338

GOODYEAR AEROSPACE CORP., AKRON, OHIO.
MPP disk subsystem
[NASA-CR-175227] 15 p2388 N84-25325
Innovative structures for space applications
[GAC-19-1563] 16 p2458 N84-25757
System definition study of deployable, non-metallic space structures
[NASA-CR-171090] 19 p2980 N84-28887
Closing the gap between aircraft and simulator training with Limited Field-Of-View (LFOV) visual systems
[AD-P003448] 21 p3508 N84-32225

GOODYEAR AEROSPACE CORP., LITCHFIELD PARK, ARIZ.
Processor architecture for airborne SAR systems
07 p0989 N84-16406
NASTRAN analysis of nuclear effects on helicopter transparencies
[AD-P003234] 17 p2597 N84-26647
GOUGH (PAUL) ASSOCIATES, INC., PORTSMOUTH, N.H.
Continuum modeling of stick charge combustion
13 p1947 N84-22662
Multi-dimensional, multiphase flow analysis of flamespreading in a stick propellant charge
13 p1948 N84-22663
GOULD, INC., OXNARD, CALIF.
Advanced strain-gage pressure transducer
[AD-A136063] 09 p1303 N84-18518
GOULD, INC., ROLLING MEADOWS, ILL.
Maintenance-free, deep-discharge, lead-acid battery for photovoltaic applications: Phase two
[DE83-013561] 02 p0214 N84-11401
Integral inverter/battery charger for use in electric vehicles
[NASA-CR-168177] 07 p1086 N84-17073
A battery charger and state of charge indicator
[NASA-CR-173961] 23 p3743 N84-33725
GRADIENT LENS CORP., ROCHESTER, N.Y.
10.6 micrometer gradient index optical component design
[AD-A141343] 18 p2932 N84-28594
GRAZ UNIV. (AUSTRIA).
Implement of the computer program-system MOSS (Map overlay and statistical system) on a VAX-11 series computer under VMS
[AD-A137104] 10 p1525 N84-19992
On the two-body problem with variable masses
19 p3117 N84-29808
Numerical integration with Lie-series
19 p3118 N84-29814
Evaluation of radar stereo viewability by means of a simulation technique 23 p3779 N84-33959
GREEN MOUNTAIN RADIO RESEARCH CO., WINOOSKI, VT.
Polarized-interferometer feasibility study
[NASA-CR-170979] 11 p1656 N84-20805
GREMLI SYSTEMDYNAMIK A.G., ABTWIL (SWITZERLAND).
Surge prediction in industrial compressors
16 p2489 N84-25969
GRENOBLE UNIV. (FRANCE).
Waves on vortex cores and their relation to vortex breakdown 03 p0326 N84-12128
GRENOBLE-1 UNIV. (FRANCE).
Annals of the Fourier Institute, volume 33, no. 4
[ISSN-0373-0956] 13 p2031 N84-23172
Annals of the Fourier Institute, volume 33, no. 3
[ISSN-0373-0956] 14 p2210 N84-24264
Annals of the Fourier Institute, volume 34, no. 1
[ISSN-0373-0956] 22 p3633 N84-33025
Singularities connected with a trace on a Banach algebra 22 p3634 N84-33034
Annals of the Fourier Institute, volume 34, no. 2
[ISSN-0373-0956] 22 p3635 N84-33038
Infinitesmal deformation of locally symmetrical Riemann spaces. 2: Blaschke's infinitesimal conjecture for complex projective space 22 p3636 N84-33049
GRONINGEN RIJKSUNIVERSITEIT (NETHERLANDS).
Application of protein crystals for structure and function analysis 23 p3804 N84-34119
GROUPEMENT POUR LE DEVELOPPEMENT DE LA TELEDETECTION AEROSPATIALE, TOULOUSE (FRANCE).
SPOT potential applications: An overview of the results of the simulation campaigns 03 p0396 N84-12587
The SPOT distribution system
03 p0400 N84-12615
GRUMMAN AEROSPACE CORP., BETHPAGE, N.Y.
Enhancement of the CAVE computer code
[NASA-CR-3731] 04 p0532 N84-13501
Orbiter-based construction equipment study. The HPA/DTA technology advancement plan
[NASA-CR-174605] 05 p0644 N84-14233
A wing concept for supersonic maneuvering
[NASA-CR-3763] 06 p0781 N84-15115
Mach 0.6 to 3.0 flows over rectangular cavities
[AD-A134579] 06 p0782 N84-15121
Implementation of elastic-plastic structural analysis into NASTRAN 06 p0860 N84-15606
Control definition study for advanced vehicles
[NASA-CR-3738] 07 p0958 N84-16212
The COREL and W12SC3 computer programs for supersonic wing design and analysis
[NASA-CR-3676] 08 p1096 N84-17130
Space station needs, attributes and architectural options. Part 1: Summary
[NASA-CR-175382] 09 p1267 N84-18270
Thermal control 09 p1269 N84-18289
Space Station needs, attributes and architectural options. Volume 2, book 1, part 1: Mission requirements
[NASA-CR-173312] 09 p1270 N84-18296
Space Station needs, attributes and architectural options. Volume 2, book 1, part 2, task 1: Mission requirements
[NASA-CR-173313] 09 p1270 N84-18297
Space Station needs, attributes and architectural options. Volume 2, book 1, part 3: Manned Space Station relevance to commercial telecommunications satellites
[NASA-CR-173314] 09 p1270 N84-18298
Space Station needs, attributes and architectural options. Volume 2, book 1, part 4: Payload element mission data sheets
[NASA-CR-173315] 09 p1270 N84-18299
Space Station needs, attributes and architectural options. Volume 2, book 2, part 1: Mission implementation concepts
[NASA-CR-173316] 09 p1270 N84-18300
Space Station needs, attributes and architectural options. Volume 2, book 2, part 2, Task 2: Information management system
[NASA-CR-173317] 09 p1271 N84-18301
Space Station needs, attributes and architectural options. Volume 2, book 2, part 3: Communication system
[NASA-CR-173318] 09 p1271 N84-18302
Space Station needs, attributes and architectural options, volume 2, book 2, part 4: International reports
[NASA-CR-173319] 09 p1271 N84-18303
Space Station needs, attributes and architectural options, volume 2, book 3: Cost and programmatics
[NASA-CR-173320] 09 p1271 N84-18304
An investigation of turbulence mechanisms in V/STOL upwash flow fields
[AD-A137775] 11 p1603 N84-20498
Body-freedom flutter of a 1/2-scale forward-swept-wing model, an experimental and analytical study
[NASA-CR-172324] 12 p1771 N84-21553
Direct-contact high-temperature thermal energy storage heat exchanger
[DE84-000012] 12 p1816 N84-21839
Solid carbon oxidation and radiation in exhaust plumes
13 p1941 N84-22623
Effect of space environment on space-based radar phased-array antenna (A0133) 15 p2271 N84-24638
Space environment effects (M0006)
15 p2279 N84-24690
Manned geosynchronous mission requirements and systems analysis study extension
[NASA-CR-173547] 15 p2281 N84-24700
Space station needs, attributes, and architectural options. Volume 1. Executive summary
[NASA-CR-173710] 18 p2806 N84-27816
Aircraft multiplexing system architecture and stores compatibility
[AD-P003530] 21 p3331 N84-31134
Single chip MIL-STD-1553B bus interface unit keeps pace with chip sets
[AD-P003537] 21 p3332 N84-31141
Space Station Systems Analysis Study. Volume 1: Executive summary, part 1 and 2
[NASA-CR-161590] 21 p3352 N84-31263
Space Station Systems Analysis Study. Volume 2: Program review report
[NASA-CR-161231] 21 p3352 N84-31264
Space Station Systems Analysis Study. Volume 2: Program options, book 1, parts 1 and 2
[NASA-CR-161927] 21 p3352 N84-31265
User friendly authoring languages: An alternative approach
[AD-P003461] 21 p3510 N84-32238
Multi-leg heat pipe evaporator
[NASA-CASE-MSC-20812-1] 22 p3592 N84-32748
Improved monogroove heat pipe design: Insulated liquid channel with bridging wick
[NASA-CASE-MSC-20497-1] 24 p3899 N84-34692
GRUMMAN AEROSPACE CORP., CALVERTON, N.Y.
Real time testing: The next generation
24 p3850 N84-34416
GRUMMAN AEROSPACE CORP., PRINCETON, N.J.
Monte Carlo study of ICRF start-up and sustained mode operation in tandem mirrors
[DE84-005808] 11 p1738 N84-21338
Monte Carlo studies of tandem mirror plasmas interacting with waves in the Ion Cyclotron Range of Frequencies
[DE84-006901] 18 p2934 N84-28605
GRUMMAN DATA SYSTEMS CORP., CALVERTON, N.Y.
Application of advanced parameter identification methods for flight flutter data analysis with comparisons to current techniques 24 p3848 N84-34401
GT-DEVICES, ALEXANDRIA, VA.
Investigation of a pulsed electrothermal thruster
[NASA-CR-166266] 03 p0343 N84-12227
Research and development of a plasma jet mass accelerator as a driver for impact fusion
[DE84-012940] 22 p3659 N84-33198
GTE COMMUNICATIONS PRODUCTS CORP., NEEDHAM HEIGHTS, MASS.
RF design and performance of a multibeam, multiband antenna
[AD-P003512] 21 p3385 N84-31480
GTE LABS., INC., BAYSIDE, N.Y.
Arc discharge convection studies: A Space Shuttle experiment 18 p2799 N84-27761
GTE LABS., INC., WALTHAM, MASS.
Critical dynamics for continuous rapid solidification processing
[AD-A134257] 07 p0974 N84-16313
Switching behavior of bistable resonators filled with two-level atoms 14 p2236 N84-24419
Polarization bistability in cholesteric liquid crystals
14 p2236 N84-24420
Low power optical bistability near bound excitons in cadmium sulfide 14 p2241 N84-24451
Lithium cell reactions
[AD-A142976] 21 p3391 N84-31522
GTE SATELLITE CORP., PRINCETON, N.J.
Ni-Cd battery life expectancy in geosynchronous orbit
23 p3738 N84-33667
GTE SYLVANIA, INC., NEEDHAM HEIGHTS, MASS.
Bidirectional fiber optic cable adapter
[AD-A133371] 06 p0824 N84-15370
GTE SYSTEMS GROUP, PHOENIX, ARIZ.
DCP (Distributed software engineering control process): Experience in bootstrapping an Ada (trademark) environment
[AD-P003424] 20 p3270 N84-30756
GUELPH UNIV. (ONTARIO).
Correlation structure in iterated Farlie-Gumbel-Morgenstern distributions
[AD-A137055] 10 p1571 N84-20293
GULF AND WESTERN APPLIED SCIENCE LABS., WALTHAM, MASS.
Ion deposited carbon coatings
[AD-A135068] 08 p1136 N84-17390
GULF SOUTH RESEARCH INST., NEW ORLEANS, LA.
Encapsulated multifunction corrosion inhibitive primer
[AD-A144311] 24 p3889 N84-34626
GULTON INDUSTRIES, INC., ALBUQUERQUE, N.MEX.
NIMBUS-ERB instrument study
[NASA-CR-165922] 02 p0222 N84-11459
Nimbus-Earth radiation budget instrument analysis
[NASA-CR-172318] 14 p2175 N84-24029
GUNMA UNIV., MAEBASHI (JAPAN).
Macroscopic plasma behavior and charged particle acceleration in the plasma focus
10 p1581 N84-20363

H

HACHINOHE INST. OF TECH. (JAPAN).
Pulse-train residue arithmetic circuit using multiple-valued charge-coupled devices and its application to digital filter
[AD-P002345] 14 p2191 N84-24136
HAHN-MEITNER-INSTITUT FUER KERNFORSCHUNG, BERLIN (WEST GERMANY).
Regular operator approximation theory
[HMI-B-389] 08 p1226 N84-18008
Development and investigation of a high level token passing module for local communication networks
[HMI-B-387] 15 p2322 N84-24941
The numerical treatment of linear integrodifferential equations
[HMI-B-381] 15 p2399 N84-25398
Special methods for spline functions associated to uniform grids
[HMI-B-381] 15 p2399 N84-25399
GfW handbook: Irradiation test guidelines for radiation hardness of electronic components
[HMI-B-380] 17 p2664 N84-26994
HAIFA UNIV. (ISRAEL).
Quotient algebras for logics of imprecision
[AD-P002330] 14 p2189 N84-24121
Towards a formal multi-valued utility theory
[AD-P002356] 14 p2193 N84-24147
HAMBURG UNIV. (WEST GERMANY).
The celestial mechanics experiment (E 11) of HELIOS
[BMFT-FB-W-83-016] 08 p1243 N84-18124
Influences affecting separation in monotectic alloys under microgravity 17 p2612 N84-26723
A three-dimensional description of the sea surface by means of marine navigation radar
23 p3771 N84-33906

HAMBURGER STAHLWERKE G.M.B.H. (WEST GERMANY).
Measures for the improvement of the continuous casting procedure (electromagnetic stirring)
[BMFT-FB-T-83-138] 02 p0207 N84-11348
HAMILTON STANDARD, WINDSOR LOCKS, CONN.
Technology and benefits of aircraft counter rotation propellers
[NASA-CR-168258] 04 p0485 N84-13186
Preprototype SAWD subsystem
[NASA-CR-171760] 10 p1553 N84-20177
HAMPTON INST., VA.
Adsorption of humic acids and trace metals in natural waters
[NASA-CR-174481] 02 p0238 N84-11563
Local effects of partly-cloudy skies on solar and emitted radiations
[NASA-CR-173189] 07 p1035 N84-16711
An intense excitation source for high power (Blue-green) laser
[AD-A135873] 09 p1322 N84-18637
A radiative transfer model for remote sensing of laser induced fluorescence of phytoplankton in non-homogeneous turbid water
[NASA-CR-173777] 19 p3063 N84-29432
Teaching Ada (trademark) at Hampton Institute
[AD-P003420] 20 p3270 N84-30752
Studies of new media radiation induced laser
[NASA-CR-173846] 21 p3408 N84-31616
Summer faculty fellowship program, 1984
[NASA-CR-172409] 21 p3507 N84-32221
HANFORD ENGINEERING DEVELOPMENT LAB., RICHLAND, WASH.
Comparison between measured and predicted performance of a high speed, free surface liquid jet flowing along a curved wall
[DE83-012728] 01 p0082 N84-10530
Fusion materials irradiation test facility test-cell instrumentation
[DE83-012823] 01 p0085 N84-10552
Fracture behavior of unirradiated HT-9 and modified 9Cr-1Mo welds
[DE83-016021] 01 p0098 N84-10636
Concurrent Pascal for RSX-11M
[HEDL-TME-82-45] 01 p0120 N84-10777
Hydrogen trapping by yttrium in low-temperature lithium
[DE83-012721] 02 p0194 N84-11263
Low activation approaches to materials development
[DE83-015972] 02 p0196 N84-11273
Miniature charpy-impact test results for the irradiated ferritic alloys HT-9 and modified 9Cr-1Mo
[DE83-016935] 03 p0354 N84-12300
Quality is not a dirty word
[DE83-012166] 03 p0385 N84-12510
Conceptual design of the high-flux VTA-2 test assembly for FMIT
[DE83-017022] 03 p0446 N84-12935
Factors which determine the swelling rate of austenitic stainless steels
[DE84-001474] 05 p0656 N84-14315
Imaging of fast-neutron sources using solid-state track-recorder pinhole radiography
[DE84-001466] 05 p0685 N84-14504
Use of subsized specimens for evaluating the fracture toughness of irradiated materials
[DE84-001500] 05 p0693 N84-14553
Design and use of nonstandard tensile specimens for irradiated materials testing
[DE84-001468] 06 p0806 N84-15254
Use of the disk bend test to assess irradiation performance of structural alloys
[DE84-001484] 06 p0806 N84-15255
Ultrasonic test data acquisition and defect verification of stainless steel welds at 4000 deg F
[DE83-012146] 06 p0855 N84-15570
Miniature center-cracked-tension specimen for fatigue crack growth testing
[DE84-001470] 06 p0862 N84-15615
Fracture-mechanics behavior of neutron-irradiated alloy A-286
[DE84-001467] 07 p0975 N84-16320
Neutron cross sections for defect production by high-energy displacement cascades in copper
[DE84-002116] 07 p1083 N84-17045
Correlation of yield stress changes in 316 stainless steel irradiated with high-energy and fission neutrons
[DE84-002115] 08 p1133 N84-17368
Correlation of fracture toughness with tensile properties for irradiated 20% cold-worked 316 stainless steel
[DE84-003954] 08 p1135 N84-17379
Thermal creep and stress-affected precipitation of 20% cold-worked 316 stainless steel
[DE84-004933] 10 p1461 N84-19539
Stability of the FMIT high speed, free surface liquid jet flowing along a curved wall
[DE84-003856] 10 p1494 N84-19767
Guidelines-software verification
[DE84-003899] 11 p1709 N84-21138
Continuous energy gamma-ray spectrometry
[DE84-006349] 14 p2123 N84-23726
Fuel Systems for compact fast space reactors
[DE84-006545] 14 p2223 N84-24343
Contribution to the 6th annual report on special purpose materials for magnetically confined fusion reactors: Solid breeder materials
[DE84-008181] 15 p2411 N84-25470
Ring ductility of irradiated Inconel 706 and Nimonic PE16
[DE84-010397] 20 p3155 N84-30034
Transmutation of manganese: Substituted steels in STARFIRE
[DE84-010402] 20 p3155 N84-30035
Strategies for analytical applications and implementation of a multi-purpose laboratory robot
[DE84-012379] 20 p3198 N84-30314
Microprocessor enhanced real time manual control of an industrial robot
[DE84-011805] 21 p3413 N84-31645
Fundamentals of computer security
[DE84-011476] 21 p3469 N84-31989
Effective thermophysical and elastic properties of materials with voids
[DE84-013942] 22 p3549 N84-32465
Fundamental alloy studies
[DE84-013941] 22 p3555 N84-32513
Fracture toughness of irradiated HT-9
[DE84-013935] 23 p3719 N84-33578
HANGZHOU UNIV. (CHINA).
The synthesis of ternary functions under fixed polarities and ternary I-2L circuits
[AD-P002381] 14 p2196 N84-24172
HANSEN (R. C.), INC., TARZANA, CALIF.
Focal region characteristics of focused microwave array antennas
[AD-A138557] 13 p1982 N84-22867
HANSEN (R. G.) AND ASSOCIATES, SANTA BARBARA, CALIF.
Testing and characterizations of infrared sensor over the temperature range of 2 Kelvin to 300 Kelvin
06 p0820 N84-15347
Suitability of commercially available laboratory cryogenic refrigerators to support shipboard electro-optical systems in the 10 - 77 Kelvin region 06 p0821 N84-15355
HARRIS CORP., MELBOURNE, FLA.
Vibration test environments for electronics mounted in a remotely piloted vehicle 10 p1513 N84-19903
Vibration test software for electronics mounted in a remotely piloted vehicle 10 p1513 N84-19904
The design of a low loss light-weight s-band phase shifter
[AD-P003406] 19 p3015 N84-29110
The mechanical design of a high-power, dual frequency, millimeter-wave antenna feed system
[AD-P003409] 19 p3015 N84-29113
Experience with Ada (trademark) for the Graphical Kernel System
[AD-P003426] 20 p3271 N84-30758
Ada (trademark) design language concerns
[AD-P003431] 20 p3271 N84-30763
Hoop/column antenna RF verification model. Volume 2: Analysis and correlation
[NASA-CR-172413] 21 p3382 N84-31462
Hoop/column antenna: RF verification model. Volume 1: Test results
[NASA-CR-172412] 21 p3382 N84-31463
HARRIS-INTERTYPE CORP., MELBOURNE, FLA.
Optical signal processing
[AD-A135906] 09 p1389 N84-19074
HARRY DIAMOND LABS., ADELPHI, MD.
Fluidic generator to power rocket proximity fuze
[AD-A131062] 01 p0029 N84-10184
Physical and computer modeling of military earth grounding practices in a HEMP (High-Altitude Electromagnetic Pulse) environment
[AD-A130141] 01 p0070 N84-10454
Theoretical analysis of nonreciprocal electromagnetic surface wave devices
[AD-A131630] 02 p0209 N84-11368
Topically classified bibliography on shapes of falling drops, drops in electric fields and related topics
[AD-A131134] 03 p0371 N84-12417
Nonlinear force on an unpolarized relativistic test particle to second order in the total field in a nonequilibrium beam-plasma system
[AD-A131631] 03 p0444 N84-12919
A high performance fiber optic telemetry link for use in a space radiation simulator
[AD-A132738] 05 p0643 N84-14232
Fluidics: Basic components and applications
[AD-A134046] 05 p0679 N84-14485
Low-cost stator material for M734 alternators
[AD-A126804] 07 p0997 N84-16464
Writing TSO (Time Sharing Option) commands in FORTRAN
[AD-A136584] 09 p1367 N84-18925
Nonlinear dynamic polarization force on a relativistic test particle in a nonequilibrium beam-plasma system
[AD-A136768] 10 p1577 N84-20331
The total field in collective bremsstrahlung in a nonequilibrium relativistic beam-plasma system
[AD-A136595] 10 p1585 N84-20391
A new multifunction acousto-optic signal processor
12 p1906 N84-22413
TLINES: A computer program for circuits of transmission lines
[AD-A139596] 14 p2142 N84-23844
Spectral power density extrema for microwave emission from a relativistic reflex triode
[AD-A139771] 15 p2329 N84-24984
On the form of the collective bremsstrahlung recoil force in a nonequilibrium relativistic beam-plasma system
[AD-A139895] 15 p2410 N84-25467
Crystal-field splittings of the Hund ground states of ndN ions in S4 symmetry: Theory and application to the Ga-3+ Gd-3Sc-2Ga-3O-12
[AD-A140623] 17 p2768 N84-27574
Uniform magnetic-field-induced free-electron laser in a waveguide
[AD-A141195] 18 p2846 N84-28073
Theoretical methods in the calculation of the bremsstrahlung recoil force in a nonequilibrium beam-plasma system
[AD-A142136] 19 p3089 N84-29609
Rare-earth ion-host lattice interactions: 15. Analysis of the spectra of Nd3+ in Gd3Sc2Ga3O12
[AD-A142555] 20 p3309 N84-31015
The concentric spherical cavity TE and TM (Transverse Electromagnetic and Transverse Magnetic) eigenvalues
[AD-A143985] 23 p3732 N84-33652
HARVARD MEDICAL SCHOOL, BOSTON, MASS.
Symposium on mathematical modeling of circadian systems
[AD-A133636] 05 p0713 N84-14673
HARVARD-SMITHSONIAN CENTER FOR ASTROPHYSICS, CAMBRIDGE, MASS.
Spectroscopic measurements of solar wind generation
03 p0466 N84-13071
Multiple transonic solutions and a new class of shock transitions in solar and stellar winds
03 p0468 N84-13083
Observation of winds in cool stars
03 p0468 N84-13084
Formation of standing shocks in stellar winds and related astrophysical flows 03 p0469 N84-13088
Interpreting the solar wind ionization state
03 p0473 N84-13115
Classification methods: An introductory survey
09 p1406 N84-19204
Ultraviolet and optical observations of metal deficient red giants and chromospheric models
24 p3974 N84-35166
HARVARD UNIV., CAMBRIDGE, MASS.
Speeds: A new technique for the analysis and optimization of queueing networks
[PB83-228951] 01 p0137 N84-10901
Phase-slip centers and their interactions
[AD-A130914] 01 p0153 N84-11006
Transient response of superconducting microbridges to supercritical currents
[AD-A130913] 01 p0153 N84-11007
Joint services electronics program
[AD-A130985] 02 p0213 N84-11392
The computer fire codes and required new data
04 p0513 N84-13369
Fields and currents and charges on obstacles in a parallel-plate simulator at selected frequencies and with pulse excitation
[AD-A132406] 04 p0520 N84-13418
On the interactions of incentive and information structures
[DE83-012084] 04 p0616 N84-14065
Surveys of globular cluster and galactic plane X-ray sources 04 p0622 N84-14102
Baroclinic instability of atmospheric jets
06 p0877 N84-15704
The causation and variability of the northern winter quasi-stationary planetary waves
06 p0877 N84-15705
The role of microorganisms in marine corrosion processes
[AD-A133113] 06 p0885 N84-15757
Optical and X-ray selected samples of quasars: Evolution of the luminosity distributions
06 p0937 N84-16090

Aperture synthesis observations of star forming regions: Compact H2 regions and masers
06 p0937 N84-16092
Some issues related to evolution of planetary atmospheres 06 p0939 N84-16103
Transport processes in planetary atmospheres
06 p0939 N84-16104
Global Change: A Biogeochemical Perspective
[NASA-CR-173210] 07 p1027 N84-16656
Projection pursuit regression: Some mathematics
[AD-A134544] 07 p1063 N84-16894
Computer modeling of aircraft cabin fires
[PB84-101153] 08 p1101 N84-17162
Parallel computation 08 p1208 N84-17875
On acyclic database decompositions
[AD-A135105] 08 p1209 N84-17887
Quantification of interference and detectability properties of visual stimuli for optimal display design
[AD-A135438] 08 p1232 N84-18049
Atomic transport in metallic glasses
[AD-A136363] 09 p1282 N84-18373
Numerical fluid dynamics
[AD-A135900] 09 p1315 N84-18593
Picosecond laser pulse interactions with metallic and semiconductor surfaces
[AD-A135693] 09 p1395 N84-19112
Transient horizontal flame spread tests on cellular plastics - experimental results, volume 1
[PB84-135458] 10 p1469 N84-19595
Sources and sinks for nitrous oxide and experimental studies of the source of atmospheric COS, CS-2 and CH-3-Cl
[NASA-CR-175404] 10 p1531 N84-20030
Average sedimentary rock rare Earth element patterns and crustal evolution: Some observations and implications from the 3800 Ma ISUA supracrustal belt, West Greenland 11 p1678 N84-20953
Estimation and prediction of oceanic eddy fields
[AD-P002652] 11 p1689 N84-21017
A far-infrared laser study of small-area superconducting tunnel junctions
[AD-A137186] 11 p1744 N84-21383
Optimization of transparent electrode for solar cell and chemical vapor deposition of amorphous silicon
[DE83-017780] 12 p1843 N84-22014
Bulk formation of metallic glasses and amorphous silicon from the melt
[NASA-CR-171012] 13 p1963 N84-22752
Simulation and assimilation of satellite altimeter data at the oceanic mesoscale 17 p2720 N84-27312
Topics in quantum field theory and cosmology
17 p2769 N84-27583
Seyfert galaxy narrow-line regions: A spectroscopic investigation 17 p2774 N84-27612
Dynamical studies of clusters of galaxies
17 p2775 N84-27619
A hybrid N-body/Fokker-Planck stellar dynamical code with application to late core collapse in globular clusters
17 p2775 N84-27620
Is there a speed limit? 18 p2935 N84-28616
The effect of creep on the residual stresses generated during silicon sheet growth 18 p2938 N84-28634
Measurement of lifetimes of the vibrational levels of the B state of N2
[AD-A142161] 19 p3101 N84-29702
A theoretical study of the energetics and dynamics of high energy inelastic collision processes
[AD-A142799] 21 p3497 N84-32163
Unraveling photosystems
[DE84-013812] 22 p3629 N84-32994
Theoretical issues in the design and verification of distributed systems 22 p3643 N84-33096
Drift mobilities by time-of-flight methods and time-dependent phototransport in the nanosecond regime in amorphous semiconductors
[DE84-014906] 22 p3666 N84-33241
Invariant formulation of and radiative corrections in quantum gravity 22 p3668 N84-33249
The nature and origin of refractory inclusions in the Allende meteorite 22 p3678 N84-33318
Interaction of high intensity subnanosecond CO2 laser pulses with molecules
[AD-A143654] 23 p3754 N84-33795
The undercooling of liquids 24 p3881 N84-34590

HASKINS LABS., INC., NEW HAVEN, CONN.

Status and progress of studies on the nature of speech, instrumentation for its investigation and practical applications
[AD-A136416] 09 p1298 N84-18488

HATFIELD POLYTECHNIC (ENGLAND).

Low thrust orbit optimization for interplanetary missions, volume 1
[ESA-CR(P)-1904-VOL-1] 23 p3697 N84-33430
Low thrust orbit optimization for interplanetary missions, volume 2
[ESA-CR(P)-1904-VOL-2] 23 p3697 N84-33431

HAUNI-WERKE KOERBER UND CO., HAMBURG (WEST GERMANY).

Creep feed grinding: Advanced profile grinding technology 09 p1292 N84-18439

HAUTE-ALSACE UNIV., MULHOUSE (FRANCE).

Formation and destruction of organic pollutants in thermal systems and flames 15 p2291 N84-24752

HAWAII INST. OF GEOPHYSICS, HONOLULU.

Remote sensing and geologic studies of the planetary crusts
[NASA-CR-173216] 07 p1091 N84-17092
Spectral analyses of high-frequency Pn, Sn phases from very shallow focus earthquakes
[AD-A137778] 11 p1681 N84-20973
The Role of Eddies in the General Ocean Circulation: Proceedings of Aha Huliko's Hawaiian Winter Workshop
[AD-A137212] 11 p1689 N84-21014
Evidence for the direct atmospheric forcing of mid-ocean eddies
[AD-P002656] 11 p1690 N84-21021
On the driving of ocean currents by Rossby waves
[AD-P002659] 11 p1690 N84-21024
New models for landform evolution on Io
13 p2074 N84-23443
A generalized behavioral model for rotating short period comets with spectral orbital elements and axial orientation 13 p2075 N84-23451
Recent comet impacts on the moon: The evidence from spectral reflectance studies 13 p2076 N84-23453

HAWAII UNIV., HONOLULU.

The modelling of the solar upper photosphere and lower chromosphere based upon ATM data
[NASA-CR-170920] 02 p0308 N84-12021
Spectral reflectance of near-earth asteroids: Implications for composition, origin and evolution
05 p0762 N84-15000
Seamount paleomagnetism and Pacific plate tectonics
11 p1677 N84-20943
SeaMARC 2 side-scan images of submarine volcances: Potential analogues for Venus 11 p1754 N84-21452
Venus analogues on the Earth's ocean floor(?): Volcanic terrains seen by SeaMARC 2 side scan sonar
11 p1755 N84-21456
The plumes of IO: A detection of solid sulfur dioxide particles
[NASA-CR-175414] 12 p1922 N84-22523
Voyager feature-fixed photometry of lapetus
13 p2074 N84-23440
Volcanism in Elysium Planitia, Mars
13 p2080 N84-23481
Surface compositions in the Aristarchus Region: Implications for regional stratigraphy
13 p2087 N84-23519
Hypsometric studies of Mars.
13 p2089 N84-23530
Convective heat transfer in porous media
15 p2317 N84-24903
Effects of appraisal salience on immediate and memory-based judgments
[AD-A140334] 16 p2538 N84-26295
Development and application of low energy X-ray and electron physics
[AD-A140480] 16 p2556 N84-26397
BCH codes for large IC random-access memory systems
[NASA-CR-166549] 17 p2751 N84-27460
Determination of the Io heat flow. 1: Eclipse observations
[NASA-CR-173631] 17 p2774 N84-27614
On Io, all that flickers is not cold
[NASA-CR-173447] 17 p2777 N84-27631
Recent ground-based observations of the global properties of the Sun 17 p2779 N84-27644
Low energy X-ray and electron physics and applications to diagnostics development for laser-produced plasma research
[DE84-009842] 18 p2934 N84-28604
Reed Solomon codes for error control in byte organized computer memory systems
[NASA-CR-173803] 19 p3080 N84-29542
Exploratory Energy Research Program of the University of Hawaii at Manoa
[DE84-014910] 23 p3784 N84-34000

HAWAII UNIV., MANOA.

Automatic-repeat-request error control schemes
[NASA-CR-170605] 02 p0207 N84-11353
Stream-water storage in the ocean using an impermeable membrane
[PB83-248369] 04 p0517 N84-13394
A rectangular gate merged MOSBJT
[AD-A132450] 04 p0525 N84-13453
The BJT-JFET: A novel merged device structure
[AD-A132373] 04 p0525 N84-13454
Numerical modeling of the MOSBJT
[AD-A132351] 04 p0525 N84-13456
Effects of simultaneous phosphorus and arsenic diffusions on emitter push and dislocation generation
[AD-A132331] 04 p0612 N84-14042
Influences on group productivity. 2: Factors inherent in the person. A bibliographic synopsis
[AD-A131015] 06 p0891 N84-15790
Field surveys of carbon monoxide in commercial settings using personal exposure monitors
[PB84-211291] 22 p3599 N84-32797

HAWAIIAN DREDGING AND CONSTRUCTION CO., HONOLULU.

Ocean thermal energy conversion cold water pipe at-sea test program
[PB83-221119] 01 p0060 N84-10393

HAZELTINE CORP., GREENLAWN, N. Y.

Interactive communication systems simulation model (ICSSM) extension
[AD-A135704] 09 p1302 N84-18509
Study and design of a cylindrical lens array antenna for wideband electronic scanning
[AD-A138808] 13 p1983 N84-22875
Axial-conductances angular filter investigation
[AD-A142802] 21 p3386 N84-31487

HAZELTINE CORP., MCLEAN, VA.

An adaptive CBT (Computer Based Training) courseware authoring system to meet the needs of military authors
[AD-P003460] 21 p3510 N84-32237

HEALTH EFFECTS RESEARCH LAB., RESEARCH TRIANGLE PARK, N. C.

Evaluation of motor vehicle and other combustion emissions using short-term genetic bioassays
[PB83-233270] 01 p0112 N84-10731
Radiofrequency radiation exposure for bio-effects research at the Health Effects Research Laboratory, Research Triangle Park, North Carolina
[PB83-229591] 01 p0115 N84-10747
Influence of nitrogen dioxide on xenobiotic metabolism in animals
[PB83-239723] 02 p0265 N84-11743
Bioassay of particulate organic matter from ambient air
[PB83-239731] 02 p0267 N84-11754
Event-related brain potentials: An alternative methodology for neurotoxicological research
[PB83-246116] 04 p0573 N84-13775
Biological effects of radiofrequency radiation: Review draft, parts 1, 2 and 3
[PB83-262550] 05 p0714 N84-14680
Immunologic effects of electromagnetic fields (1981 - 1983)
[PB84-190602] 22 p3631 N84-33008
Integration of species sensitivity and dosimetry data in the extrapolation of ozone and nitrogen dioxide health data from animals to man
[PB84-195312] 22 p3631 N84-33010

HEBREW UNIV., JERUSALEM (ISRAEL).

Crystal growth and applications of mercuric iodide
[DE83-016731] 02 p0299 N84-11966
Fourth International Conference on Photochemical Conversion and Storage of Solar Energy
[DE83-014760] 03 p0403 N84-12638
The orientation distribution on nonspherical aerosol particles within a cloud
[AD-A140470] 16 p2526 N84-26216
Syntheses and characterization of novel graphite intercalation compounds with inorganic fluorides
[AD-A140801] 17 p2619 N84-26762
Electronic excitation in molecular collisions: Structural, dynamic and kinetic considerations
[AD-A143956] 23 p3822 N84-34236

HEIDELBERG UNIV. (WEST GERMANY).

Laser light scattering at the POSEIDON plasma focus device 10 p1584 N84-20384
Corona models tested with IUE and Einstein observations 24 p3970 N84-35139

HEIMATVERBAND FUER DEN KREIS STEINBURG, ITZENHOE (WEST GERMANY).

Aircraft over Steinberg (West Germany)
[REPT-5/1982] 10 p1424 N84-19316

HEINRICH-HERTZ-INSTITUT, BERLIN (WEST GERMANY).

Broadband communication with fiber optic channels
[BMFT-FB-T-83-118] 02 p0211 N84-11377

HELIONETICS, INC., SAN DIEGO, CALIF.

Semiconductor processing with excimer lasers
[DE83-007509] 03 p0380 N84-12477
Beam processing for high-efficiency Si solar cells
[DE84-002059] 06 p0874 N84-15690

HELIOTRONIC G.M.B.H., BURGHAUSEN (WEST GERMANY).

Silicon foils growth by interface-controlled crystallization 18 p2937 N84-28628

HELL (RUDOLPH), KIEL (WEST GERMANY).

Laser color recording unit
[BMFT-FB-T-84-098] 21 p3411 N84-31633

HELSINKI UNIV. (FINLAND).
The specific solutions of a uniform algebraic differential equation of the second order
[ISSN-0066-1953] 04 p0575 N84-13783
On the growth of the spherical derivative of a meromorphic function 04 p0575 N84-13785
On the range of real coefficients of functions with bounded boundary rotation 04 p0575 N84-13789
On the structure of self-similar fractals 04 p0576 N84-13791
Quasiconformal semiflows 04 p0576 N84-13792
On the order of quasiregular mappings 04 p0576 N84-13793
On the Harnack constant and the boundary behavior of Harnack functions 04 p0576 N84-13796
Regular n-gons and Fuchsian groups 04 p0576 N84-13798
Twisted sums of nuclear Frechet spaces 04 p0576 N84-13800
Empirical studies of program behaviour in virtual memory
[PB84-112267] 08 p1214 N84-17821
An algorithm for additive representation of positive integers
[ISSN-0355-0087] 12 p1892 N84-22325
Magnetic activity in lower main sequence stars 24 p3975 N84-35175

HELSINKI UNIV. OF TECHNOLOGY, ESPOO (FINLAND).
Range and endurance of jet-engined airplanes at constant altitude
[REPT-83-A1-SER-A] 04 p0483 N84-13175
F-harmonic measure in space 04 p0576 N84-13794
Convolution of generalized vector measures 04 p0577 N84-13803
Complex vector algebra in electromagnetics
[REPT-S-125] 09 p1304 N84-18526
Elements of dyadic algebra and its application in electromagnetics
[REPT-S-126] 09 p1304 N84-18527
Dielectrically loaded corrugated waveguide: Variational analysis of a nonstandard eigenproblem
[REPT-S-131] 09 p1305 N84-18528
Application of noise waves and scattering/scattering-transfer matrices for noise analysis of microwave mixers
[REPT-S-137] 09 p1305 N84-18529
Cyrogenic FET IF-amplifier for a mm wave mixer
[REPT-S-124] 09 p1310 N84-18566
Approaching noise performance limits of Schottky-barrier mixers at millimeter waves
[REPT-S-134] 09 p1310 N84-18567
On the dielectric properties of dry snow in the 800 MHz to 13 GHz range
[REPT-S-135] 09 p1337 N84-18733
Computer programs for continuum measurements at the Metsaehovi Radio Research Station
[REPT-S-130] 09 p1370 N84-18943
Variational methods for nonstandard eigenvalue problems in waveguide and resonator analysis
[REPT-S-128] 09 p1379 N84-19012
Transversely anisotropic optical fiber: Variatioonal analysis of a nonstandard eigen problem
[REPT-S-133] 09 p1390 N84-19080
Asymptotic analysis of weakly guiding anisotropic optical fibers
[REPT-S-136] 09 p1390 N84-19081
Proceedings of the 16th Finnish Astronomers' Days
[REPT-S-129] 09 p1413 N84-19241
Spectral line receiver for 80-90 GHz designed at the Helsinki University of Technology 09 p1413 N84-19243
Derivation of the properties of the cosmic background radiation from a static world model 09 p1413 N84-19244
Observations of variable millimeter wave radio sources at Metsaehovi 09 p1413 N84-19245
A homologous microwave flare on May 29, 1980 09 p1413 N84-19246
Solar rotation rate determined from millimeter data 09 p1413 N84-19247
The 433 Eros and 624 Hektor. A physical model for two highly elongated asteroids 09 p1414 N84-19250
Circular polarimetry of the magnetic compact binary AM Herculis 09 p1414 N84-19251
Measurements of the solar 160 min oscillation at the Metsaehovi radio research station in 1980-1982 and comparison with the results at the Crimean Astrophysical Observatory
[REPT-S-138] 09 p1416 N84-19268
Improved computer programs for microwave Sun observation at the Metsaehovi radio research station
[REPT-S-140] 09 p1417 N84-19269
Exact image theory for the Sommerfeld half-space problem with a vertical magnetic dipole
[REPT-S-142] 10 p1572 N84-20301
Design of single component airfoils using an inverse boundary element method
[REPT-83-A2-SER-A] 12 p1765 N84-21512
A computer program for point-surface microwave continuum observation
[REPT-S-141] 15 p2320 N84-24925
Exact image theory for the Sommerfeld half-space problem with a vertical electric di-pole
[REPT-S-144] 15 p2320 N84-24926
Analysis of a Cassegrain antenna having a Gaussian illumination pattern
[REPT-S-147] 15 p2320 N84-24927
Is a partially filled cylindrical resonator operating on the TE sub 011 mode desirable for the determination of permittivity?
[REPT-S-148] 15 p2320 N84-24928
Feed system for the Metsaehovi cooled 75-95 GHz receiver
[REPT-S-146] 15 p2328 N84-24978
Cryogenic 75-95 GHz front-end for the Metsaehovi radio telescope
[REPT-S-145] 15 p2424 N84-25564

HEMLOCK SEMICONDUCTOR CORP., MICH.
Development of a polysilicon process based on chemical vapor deposition, phase 1 and phase 2
[NASA-CR-173957] 23 p3786 N84-34015

HENDERSON (MADELINE M.), BETHESDA, MD.
Compilation of cooperative data element dictionary of five federal agencies' systems for processing of technical report literature
[AD-A130797] 01 p0161 N84-11059

HERAEUS (W. C.) G.M.B.H., HANAU (WEST GERMANY).
New process for recycling of rhodium and iridium from old catalysts
[BMFT-FB-T-83-179] 08 p1126 N84-17321

HERCULES, INC., MAGNA, UTAH.
Synthesis of energetic prepolymers
[AD-A135770] 09 p1288 N84-18409
A summary of the mechanisms of delayed detonation 13 p1947 N84-22658
Prediction of crack extension direction in unidirectional composites
[VPI-E-84-27] 24 p3878 N84-34572

HERCULES POWDER CO., WILMINGTON, DEL.
On the analysis of thick walled composite material cylindrical shells 15 p2311 N84-24867

HERION-WERKE K.G., STUTTGART (WEST GERMANY).
Emission-proof valves
[BMFT-FB-HA-83-028] 10 p1503 N84-19822

HERIOTT-WATT UNIV., EDINBURGH (SCOTLAND).
Connection between Ikeda instability and phase conjugation 14 p2232 N84-24390
Room temperature optical bistability in semiconductors and realization of optical and gates 14 p2233 N84-24393
Multi-parameter universal route to chaos in a Fabry-Perot resonator 14 p2233 N84-24399
Observation of optical hysteresis in an all-optical passive ring cavity 14 p2240 N84-24447

HERSH ACOUSTICAL ENGINEERING, CHATSWORTH, CALIF.
Experimental investigation of rocket motor flow-turning acoustic losses
[AD-A144168] 24 p3866 N84-34504

HERSHEY (MILTON S.) MEDICAL CENTER, HERSHEY, PA.
Cognition and arousal as predictors of risk taking: Effects of load and cognitive style
[AD-A134324] 08 p1203 N84-17843
Task differences, stylistic characteristics and physiological arousal
[AD-A134335] 08 p1203 N84-17844
Effects of load, cognitive complexity and type A on satisfaction
[AD-A134415] 08 p1203 N84-17846
Effects of stressors on task performance and satisfaction
[AD-A139039] 14 p2187 N84-24101
A player's manual for a complex disaster decision simulation
[AD-A140776] 17 p2747 N84-27438

HEURCHROME, COLOMBES (FRANCE).
Development of protective coatings obtained by low pressure plasma spraying 18 p2934 N84-28607

HEWLETT-PACKARD CO., PALO ALTO, CALIF.
Distributed data base systems with special emphasis toward POREL 12 p1890 N84-22308

HIBBITT, KARLSSON AND SORENSEN, PROVIDENCE, R.I.
Dynamic kinking and bifurcation of cracks in plane strain
[AD-P003113] 16 p2468 N84-25818

HIGH ALTITUDE OBSERVATORY, BOULDER, COLO.
Interaction of convection and small-scale magnetic fields: Influence on the solar luminosity 17 p2779 N84-27642
The K2-Dwarf V471 TAU: A stellar version of solar variability 17 p2779 N84-27647
The solar constant, climate, and some tests of the storage hypothesis 17 p2780 N84-27649

HIGH TECHNOLOGY CORP., HAMPTON, VA.
COSAL: A black-box compressible stability analysis code for transition prediction in three-dimensional boundary layers
[NASA-CR-165925] 18 p2836 N84-28002

HIMEJI INST. OF TECH. (JAPAN).
Synthesis method for ternary logic function based on NAND-type polypheck
[AD-P002348] 14 p2192 N84-24139

HIROSHIMA UNIV. (JAPAN).
Energy levels and transition probabilities of low Z ions for electric field determination 11 p1736 N84-21325
Three-valued logic and its application to the query language of incomplete information
[AD-P002355] 14 p2192 N84-24146
On the boundary limits of harmonic functions with gradient in L sup p 22 p3634 N84-33030

HKC SYSTEMS (PTY) LTD. (SOUTH AFRICA).
Site computers 05 p0717 N84-14701

HOCHSCHULE DER BUNDESWEHR, MUNICH (WEST GERMANY).
Direct force control 01 p0014 N84-10090
Computation of the sample range in presence of conditions on generalized variance 02 p0285 N84-11872
Design of transonic compressor cascades for minimal shock losses and comparison with test results 07 p0955 N84-16192
Control of dynamic systems based on graphic information 13 p2029 N84-23159
Seminar on Zeroing Methods and Applications, spring trimester, 1983 16 p2540 N84-26304
Similarity transformations of the Euler equations and their numerical evaluation 16 p2540 N84-26306
Conference on Vector Calculators, Winter Quarter 1983 16 p2548 N84-26355

HOECHST A.G., GENDORF (WEST GERMANY).
Fluorothermoplastics for long life, weatherproof composites
[BMFT-FB-T-84-082] 20 p3164 N84-30096

HOESCH HUETTENWERKE A.G., DORTMUND (WEST GERMANY).
Development, production and marketing of a temporarily protected blackplate (TPP)
[BMFT-FB-T-83-195] 10 p1463 N84-19555

HOHENHEIM UNIV., STUTTGART (WEST GERMANY).
Hygienic microbiological/virological examination of an airwasher concerning the emission of airborne microorganisms
[BMFT-FB-T-83-130] 02 p0265 N84-11742
Possibilities of using ICL: Distributed array processor 16 p2549 N84-26357

HOHMAN PLATING AND MFG., INC., DAYTON, OHIO.
Practical applications and uses of solid lubricant films 15 p2342 N84-25056

HOKKAIDO UNIV., SAPPORO (JAPAN).
Unfoldings of foliations with multiform first integrals 14 p2210 N84-24269
Low Temperature Science. Series A: Physical Science
[ISSN-0439-3538] 15 p2352 N84-25112
The e Studies of the behavior of a snow cover on a mountain slope. 14: Poisson's ratio of snow, 2 15 p2353 N84-25120
Estimation of melting rate of snow by simple formulae using only air temperature 15 p2353 N84-25121
Optical properties of melting snow, 1 15 p2354 N84-25122
Water balance at a small watershed during the snowmelt season, 1 15 p2354 N84-25123
Water balance at a small watershed during the snowmelt season. 2: Runoff analysis 15 p2354 N84-25124
Simultaneous observation of snowfall intensity and visibility in winter at Sapporo 15 p2354 N84-25125
Characteristics of snow cover on sea ice and formation of snow ice 15 p2354 N84-25126

Data Report. Low Temperature Science. Series A: Physical Sciences
[ISSN-0385-3683] 23 p3762 N84-33842
Report of pit-wall observations of snow cover in Sapporo, 1982 - 1983 23 p3762 N84-33843
Snow cover observations at Avalanche Research Station, Toikanbetsu, northern Hokkaido, 15 (1982-1983 winter) 23 p3762 N84-33844
Radiation measurement of snowy season in 1982-1983 at Sapporo 23 p3762 N84-33845
Distribution of pack ice of Okhotsk Sea coast of Hokkaido observed with sea ice radar network, January-April 1983 23 p3762 N84-33846
BASIC programs 2 23 p3762 N84-33847

HOLLANDSE SIGNAALAPPARATEN N. V., HENGELO (NETHERLANDS).
Software flexibility ensured success of Dutch Astronomical Netherlands Satellite (ANS) and Infrared Astronomical Satellite (IRAS) satellites 05 p0725 N84-14758

HONEYWELL CORPORATE TECHNOLOGY CENTER, BLOOMINGDALE, MINN.
E-beam written computer generated holograms
[AD-A133772] 05 p0684 N84-14499
GaAs gigabit monolithic optoelectronic transmitter
[AD-A136894] 10 p1589 N84-20413

HONEYWELL ELECTRO-OPTICS CENTER, LEXINGTON, MASS.
Use of holographic linear Fringe Linearization Interferometry (FLI) for detection of defects
[AD-A129323] 01 p0083 N84-10543
Development of a HgCdTe photomixer and impedance matched GaAs FET amplifier
[NASA-CR-170608] 02 p0213 N84-11390
Holographic FLI (Fringe Linearization Interferometry) for detection of defects
[AD-A135663] 09 p1318 N84-18612
Holographic FLI for detection of defects
[AD-A142733] 20 p3189 N84-30258

HONEYWELL, INC., BLOOMINGTON, MINN.
The 30-GHz monolithic receive module
[NASA-CR-168326] 11 p1642 N84-20737
Study of mechano-chemical machining of ceramics and the effect on thin film behavior
[AD-A142542] 20 p3162 N84-30080

HONEYWELL, INC., CLEARWATER, FLA.
Space shuttle descent flight control design requirements and experiments Learned, Pt. 1 p 617-628 01 p0022 N84-10142

HONEYWELL, INC., HORSHAM, PA.
Electric Remotely Piloted Vehicle (ERPV)
[AD-A136201] 09 p1310 N84-18563

HONEYWELL, INC., MINNEAPOLIS, MINN.
Performance and robustness aspects of digital control systems 01 p0015 N84-10098
Fine line electromigration. The effect of crossed thermal gradients
[AD-A138854] 13 p2046 N84-23279
Characterization of uncertainty for large space structure control problems 15 p2268 N84-24619
Research pressure instrumentation for NASA Space Shuttle main engine, modification no. 5
[NASA-CR-171122] 21 p3404 N84-31594
Research pressure instrumentation for NASA Space Shuttle main engine, modification no. 5
[NASA-CR-173860] 21 p3405 N84-31596
Research pressure instrumentation for NASA Space Shuttle main engine, modification no. 6
[NASA-CR-171126] 22 p3597 N84-32780
Research pressure instrumentation for NASA Space Shuttle main engine, modification no. 5
[NASA-CR-171125] 22 p3597 N84-32781
Research pressure instrumentation for NASA Space Shuttle main engine, modification no. 5
[NASA-CR-171128] 22 p3622 N84-32949
Research pressure instrumentation for NASA Space Shuttle main engine
[NASA-CR-173932] 23 p3702 N84-33463

HONEYWELL, INC., ST. LOUIS PARK, MINN.
NASA Demonstration Advanced Avionics System (DAAS) 03 p0314 N84-12048

HONEYWELL, INC., WEST COVINA, CALIF.
Determining cost and training effectiveness tradeoffs for trainer design: Test of an experimental model
[AD-P003455] 21 p3509 N84-32232

HONEYWELL POWER SOURCES CENTER, HORSHAM, PA.
Safety studies on Li/SOCl-2 reserve battery
[AD-A132279] 04 p0526 N84-13458
Related studies in long term lithium battery stability 23 p3736 N84-33676
Reserve Li/SOCl2 battery safety testing 23 p3736 N84-33678

HONEYWELL SYSTEMS AND RESEARCH CENTER, MINNEAPOLIS, MINN.
Reference manual for the Ada programming language
[AD-A131511] 01 p0123 N84-10800
Advanced topics in robustness for multivariable control
[AD-A134606] 07 p1058 N84-16850
Opportunities for aircraft controls research 11 p1619 N84-20599
Tracking with intermittent radar coverage. 1: Interruptions after each collected frame of imagery
[AD-P003322] 18 p2910 N84-28458
Tracking with intermittent radar coverage. 2: Interruptions after two or more consecutively-collected frames of imagery
[AD-P003323] 18 p2910 N84-28459
Interactive flight control system analysis program
[NASA-CR-172352] 19 p2968 N84-28807
Hierarchical multisensor image understanding
[AD-A144593] 24 p3898 N84-34688

HOPITAL BELLEVUE SAINT ETIENNE (FRANCE).
Bone changes in acutely immobilized patients: Results and perspectives 23 p3807 N84-34140

HOPITAL D'INSTRUCTION DES ARMEES, PARIS (FRANCE).
Ventricular pre-excitation syndromes 11 p1699 N84-21084
Echocardiography in the expert examination of flying personnel 11 p1700 N84-21090
Exploration of arterial function using Doppler flow determination. Application to aeronautical and space medicine 11 p1700 N84-21091
The contribution of nuclear medicine to cardiology 11 p1700 N84-21092

HOPITAL D'INSTRUCTION DES ARMEES, VERSAILLES (FRANCE).
The exercise electrocardiogram 11 p1699 N84-21085
Continuous ECG monitoring by the Holter method 11 p1700 N84-21086
The Holter method in aeronautical medicine 11 p1700 N84-21087

HORTON (JAMES), ARCADIA, CALIF.
Photographic memory: The storage and retrieval of data 18 p2843 N84-28053
Polycrystalline silicon sheets for solar cells by the improved spinning method 18 p2937 N84-28626

HOUSTON UNIV., TEX.
Vibration control of large linear quadratic symmetric systems
[NASA-CR-174536] 01 p0093 N84-10608
Mixture models for dependent observations 03 p0393 N84-12562
Fast algebraic methods for multivariable control systems
[AD-A132719] 05 p0733 N84-14811
The effects of external and self excitations on axisymmetric jet turbulence and noise 05 p0743 N84-14878
Effects of hydrogen on strength and ductility of tantalum 06 p0807 N84-15260
Millimeter wave guiding structures and antennas
[AD-A133528] 06 p0825 N84-15376
Nondestructive measurement of bulk residual stresses
[AD-A134600] 07 p1013 N84-16573
Aromatic biosynthesis in pine tissues 09 p1357 N84-18866
Interactions of light and gravity on growth, orientation, and lignin biosynthesis in mung beans 09 p1359 N84-18879
A Kosloff/Basal method, 3D migration program implemented on the CYBER 205 supercomputer 10 p1562 N84-20232
Atmospheric transmittance model for a solar beam propagating between a heliostat and a receiver
[DE84-007980] 18 p2953 N84-28716
Microstructural studies of hydrogen and deuterium in BCC refractory metals
[DE84-011506] 21 p3367 N84-31357

HOVEMERE LTD., SEVENOAKS (ENGLAND).
Feasibility study on the application of Fabry-Perot interferometry and imaging photon detectors to ocean colour monitoring
[OMD/HVM-83] 23 p3784 N84-34002

HOWARD UNIV., WASHINGTON, D. C.
The dynamics and control of large flexible space structures, 6
[NASA-CR-174450] 01 p0027 N84-10173
Numerical calculations of turbulent recirculating heat transfer beyond two-dimensional back-steps and sudden pipe expansions 03 p0374 N84-12439
Low-frequency Raman scattering from vitreous and molten B2O3
[AD-A132698] 05 p0649 N84-14269
Low frequency Raman spectra of V-B2O3 as a function of temperature and pressure
[AD-A132699] 05 p0649 N84-14270
Development of short gate FET's
[AD-A133852] 05 p0674 N84-14431
Coaxial measurement of the translational distribution of CS produced in the laser photolysis of CS2 at 193nm
[AD-A134613] 07 p0970 N84-16286
Sound velocity anisotropy in cubic crystals
[NASA-CR-175344] 07 p1079 N84-17016
Two photon excitation as a tool for atmospheric and kinetic research
[NASA-CR-175378] 08 p1228 N84-18026
Environmental effects on the dynamics and control of an orbiting large flexible antenna system
[NASA-CR-175448] 11 p1623 N84-20627
Navigation system and method
[NASA-CASE-GSC-12508-1] 13 p1929 N84-22546
Attitude and shape control of large space structures 13 p2019 N84-23091
NASA/Howard University Large Space Structures Institute
[NASA-CR-173425] 14 p2244 N84-24476
Megamechanics research Consortium 14 p2244 N84-24477
Stabilization of a flexible body (hoop-column) antenna by feedback control law 14 p2245 N84-24478
Mathematical analysis 14 p2245 N84-24479
Optimization of space structures 14 p2245 N84-24480
Dynamics and control of flexible orbiting systems 14 p2245 N84-24481
Microprocessor based implementation of attitude and shape control of large space structures 14 p2245 N84-24482
Aerodynamics of sounding rockets at supersonic speeds 16 p2455 N84-25743
Development of short gate FET's
[AD-A140819] 17 p2663 N84-26992
The dynamics and control of large flexible space structures, part 7
[NASA-CR-173781] 19 p2981 N84-28892
Temperature dependence of the Raman OH-stretching overtone from liquid water
[AD-A143131] 21 p3359 N84-31305
Raman investigation of the rate of OH uptake in stressed and unstressed optical fibers
[AD-A143142] 21 p3498 N84-32172

HRB-SINGER, INC., STATE COLLEGE, PA.
Audio signal management techniques
[AD-A130391] 01 p0062 N84-10410

HUBSCHRAUBERFLUGPLAZ DER US-ARMY, FRANKFURT AM MAIN (WEST GERMANY).
Noise emission by helicopters 03 p0457 N84-13007

HUFFMAN (PAUL R.), INC., PEMBERVILLE, OHIO.
Recycling the kinetic energy of an automobile
[DE83-004201] 06 p0851 N84-15551

HUGHES AIRCRAFT CO., CULVER CITY, CALIF.
Development of a generator stator insulation system
[AD-A130376] 01 p0070 N84-10455
Lightning mapping sensor study
[NASA-CR-170908] 04 p0566 N84-13731

HUGHES AIRCRAFT CO., EL SEGUNDO, CALIF.
Chemistry, characterization and processing of IMC curing polymers
[AD-A133479] 06 p0810 N84-15274
Computer program for analysis of split-Stirling-cycle cryogenic coolers 06 p0820 N84-15344
Slotted waveguide array antennas for spaceborne SAR applications 07 p0987 N84-16397
Head-Up Display (HUD) technology demonstration
[AD-A134695] 08 p1104 N84-17180
Evaluation of army remotely piloted vehicle mission payload operator performance in simulated artillery missions
[AD-A137602] 11 p1703 N84-21103
Advanced nickel-hydrogen cell configuration study
[NASA-CR-173417] 13 p1985 N84-22889
Chemistry of processible acetylene-terminated imides
[AD-A139417] 14 p2122 N84-23720
An approach to attitude control maneuvers which helps maintain orbit inclination 15 p2268 N84-24618
Aircrew performance with simulated advanced radar and FLIR (Forward Looking Infrared) sensors in single- and two-place crew stations
[AD-P003269] 18 p2907 N84-28434
Ku-Band rendezvous radar performance computer simulation model
[NASA-CR-171804] 22 p3576 N84-32650
Advanced strain-isolation-pad material with bonded fibrous construction
[NASA-CR-166599] 23 p3723 N84-33592

HUGHES AIRCRAFT CO., FULLERTON, CALIF.
Reliability model demonstration study, volume 1
[AD-A138196] 12 p1881 N84-22262

Reliability model demonstration study, volume 2
[AD-A136197] 12 p1881 N84-22263
An Ada (trademark) network: A real-time distributed computer system
[AD-P003423] 20 p3270 N84-30755

HUGHES AIRCRAFT CO., LONG BEACH, CALIF.
Cost and performance analysis of visual and sensor simulation systems using Defense Mapping Agency data bases
[AD-A135955] 09 p1259 N84-18220
Qualification and testing of modules
22 p3585 N84-32704
A study of the interaction of millimeter wave fields with biological systems
[AD-A144150] 24 p3935 N84-34910

HUGHES AIRCRAFT CO., LOS ANGELES, CALIF.
Kevlar-49/epoxy case skirt structural fatigue strength
20 p3143 N84-29955
Electrical safety for high voltage arrays
22 p3584 N84-32697
Prediction model for the life of nickel-cadmium batteries in geosynchronous orbit satellites
23 p3737 N84-33686

HUGHES AIRCRAFT CO., TORRANCE, CALIF.
Ka-band GaAs FET noise receiver/device development
[NASA-CR-175176] 10 p1484 N84-19705
Development program for a 200kW, CW gyrotron
[DE84-007945] 14 p2149 N84-23874
Improved computer modelling of magnetron injection guns for gyrotrons
[DE84-007536] 15 p2330 N84-24992
V-band IMPATT transmitter
[NASA-CR-175249] 18 p2832 N84-27976

HUGHES ASSOCIATES, INC., KENSINGTON, MD.
Evaluation of 95 gpm inductors for aqueous film forming foam
[AD-A141242] 18 p2818 N84-27894

HUGHES HELICOPTERS, CULVER CITY, CALIF.
Application of the kinetic energy calculation as an aid in mode identification 10 p1511 N84-19688
Liquid crystal light valve structures
[NASA-CASE-MSC-20036-1] 12 p1912 N84-22457
Noise reduction experience at Hughes Helicopter, Inc.
19 p3096 N84-29666
Priority for empirical methods development
19 p3097 N84-29671
A designer's viewpoint: Requirements for reducing helicopter noise 19 p3099 N84-29684
Preliminary design study of a higher harmonic blade feathering control system
[NASA-CR-159327] 23 p3695 N84-33418

HUGHES RESEARCH LABS., MALIBU, CALIF.
Development of advanced inert-gas ion thrusters
[NASA-CR-168206] 01 p0029 N84-10180
Nuclear magnetic resonance gyroscope
[AD-A130102] 01 p0083 N84-10539
Investigation of optical fibers for nonlinear optics
[AD-A130656] 01 p0147 N84-10965
Kinetics of solid-phase crystallization in ion-implanted and deposited amorphous-silicon films
[DE83-015499] 02 p0300 N84-11967
Plasma polymerized high energy density dielectric films for capacitors
[NASA-CR-168233] 04 p0505 N84-13310
Multiwavelength bidirectional coupler-decouplers
[AD-A132908] 05 p0747 N84-14907
Study of phase diagrams of ternary semiconductors
[AD-A133556] 06 p0923 N84-16000
The 25 kW resonant dc/dc power converter
[NASA-CR-168273] 08 p1149 N84-17481
Phase conjugate optical resonator
[AD-A136071] 09 p1390 N84-19077
Concurrent VLSI architectures for two dimensional signal processing systems 09 p1402 N84-19162
The applications of silicon liquid crystal light valves to optical data processing: A review
12 p1905 N84-22409
Real-time implementation of nonlinear optical processing functions
[AD-A138843] 13 p2043 N84-23256
New materials for infrared transmitting electrooptic filters
[AD-A139272] 14 p2224 N84-24349
A study of the mechanics of radiation damage in fiber optical waveguides
[AD-A139590] 14 p2225 N84-24352
Development of new electro-optic and acousto-optic materials
[AD-A139946] 15 p2408 N84-25453
Locking of diode gain modules using optical conjugation techniques
[AD-A141234] 18 p2846 N84-28075
Design study of floating point systolic VLSI chip
[AD-A141868] 19 p3013 N84-29102
Recent advances in LPE GaAs-based solar cells
19 p3044 N84-29310
Phase conjugate optics
[AD-A141960] 20 p3299 N84-30951
Effects of cyclohexyl groups and ortho-substituents on the viscosity of ester liquid crystal components
[AD-A143028] 21 p3504 N84-32205
Liquid crystal materials for matrix displays
[AD-A143039] 21 p3504 N84-32206
Improved materials for DC dynamic scattering at elevated temperatures
[AD-A143076] 21 p3504 N84-32207
Definition, analysis and development of an optical data distribution network for integrated avionics and control systems. Part 2: Component development and system integration
[NASA-CR-172429] 22 p3657 N84-33181
Investigation of optical fibers for nonlinear optics
[AD-A143565] 22 p3657 N84-33185
Basic problems in InP technology
[AD-A143456] 22 p3663 N84-33222
Long life nickel electrodes for a nickel-hydrogen cell: Cycle life tests 23 p3739 N84-33698

HUGHES TOOL CO., CULVER CITY, CALIF.
Nonlinear analysis of a bolted marine riser connector using NASTRAN substructuring
22 p3610 N84-32875

HULBURT (E. O.) CENTER FOR SPACE RESEARCH, WASHINGTON, D.C.
HRTS observations of the fine structure and dynamics of the solar chromosphere and transition zone
03 p0466 N84-13070
Suprathermal electron tail distributions in a space-simulation beam plasma discharge
05 p0638 N84-14199
Real-time in-situ targeting of geoplasma domains for purposes of chemical injection and artificial triggering of equatorial spread-F 05 p0639 N84-14208
Determination of propagation limitations at HF by real-time update of a computer model from oblique sounder data 06 p0869 N84-15660
On the utilization of ionospheric diagnostics in the single-site location of HF emitters
06 p0870 N84-15661

HULETTS ALUMINIUM LTD., PIETERMARITZBURG (SOUTH AFRICA).
The manufacture and finishing of aluminium extrusion dies 09 p1293 N84-18447

HULL UNIV. (ENGLAND).
The use of TEA and multiatmosphere CO2 lasers in active remote sensing 24 p3907 N84-34749

HUMAN ENGINEERING LABS., ABERDEEN PROVING GROUND, MD.
Missile component repair while wearing NBC protective clothing
[AD-A137315] 10 p1553 N84-20180
Human engineering guidelines for management information systems. Change 1
[AD-A137808] 11 p1703 N84-21104
Emulation of a voice interactive Doppler navigation set
[AD-A140204] 16 p2446 N84-25687
Risk-taking performance of military personnel: Sex differences and practice effects
[AD-P003262] 18 p2906 N84-28429

HUMAN PERFORMANCE RESEARCH, INC., GOLETA, CALIF.
Computer based landing signal officer carrier aircraft recovery model
[AD-A133507] 06 p0894 N84-15808

HUMAN RESOURCES RESEARCH ORGANIZATION, ALEXANDRIA, VA.
Memory organization-based methods of instruction: A comparison with performance-oriented training
[AD-A137640] 11 p1701 N84-21098
Memory organization-based methods of instruction: Rationale and development
[AD-A137504] 11 p1702 N84-21101
Development of a computer-assisted simulation of tactical voice communications. Phase 1: Conceptual design
[AD-A143036] 21 p3386 N84-31492

HUNGARIAN ACADEMY OF SCIENCES, BUDAPEST.
Selfdual classes and automorphism groups
[AD-P002341] 14 p2191 N84-24132
On free spectra of clones with sharply transitive automorphism groups
[AD-P002342] 14 p2191 N84-24133

HUNTER COLL., NEW YORK.
Relating spatial patterns in image data to scene characteristics 03 p0394 N84-12573
Reflectance modeling 12 p1831 N84-21935
Ion conduction poly(vinyl acetate)
[AD-A142249] 19 p3096 N84-29660

HUNTER GEOPHYSICS, MOUNTAIN VIEW, CALIF.
Determination of propped fracture length by detection of injected magnetic material with surface superconducting magnetometers
[PB84-181320] 17 p2698 N84-27176

HUNTING GEOLOGY AND GEOPHYSICS LTD., BOREHAM WOOD (ENGLAND).
SIR-A aids regional geology: Comparisons of SIR-A imagery with SLAR and LANDSAT over Guyana, Venezuela, Nicarargua and Mali
07 p0988 N84-16401

HUYGENS LABORATIUM, LEIDEN (NETHERLANDS).
Evolution of interstellar grains
16 p2569 N84-26486
The 3 micron ice band 16 p2570 N84-26494
Experiments on chemical and physical evolution of interstellar grain mantles 16 p2570 N84-26495

HYDEX CORP., FAIRFAX, VA.
Remote sensing and hydrologic models
[E84-10082] 07 p1022 N84-16628
Review of hydrologic models for evaluating use of remote sensing capabilities 07 p1022 N84-16629
Strategies for using remotely sensed data in hydrologic models 07 p1022 N84-16630
A method to combine remotely sensed and in situ measurements: Program documentation
[E84-10172] 21 p3426 N84-31735

HYDRAULIC RESEARCH TEXTRON, VALENCIA, CALIF.
A study of digitally controlled flight control actuation
[AD-A133274] 06 p0791 N84-15160

HYDROLOGIC ENGINEERING CENTER, DAVIS, CALIF.
Infiltration and soil moisture redistribution in HEC-1
[AD-A141626] 19 p3041 N84-29295

HYDROMETEOROLOGICAL INST. (CZECHOSLOVAKIA).
Radar meteorology for flight assistance formation of data bank for use of radar and satellite data
18 p2887 N84-28322
Dynamics of radar cloud characteristics
18 p2887 N84-28325

HYDROMETEOROLOGICAL INST. OF THE SOCIALIST REPUBLIC OF CROATIA, ZAGREB (YUGOSLAVIA).
Cloud seeding with TG-10 rockets
18 p2888 N84-28329
Some radar measurements in the North Adriatic Sea
18 p2888 N84-28330
Planned radar network in hail suppression
18 p2888 N84-28331

I

IAP RESEARCH, INC., DAYTON, OHIO.
Optimization of electromagnetic propulsion systems
20 p3139 N84-29929
Pulsed inductive energy store
[AD-A144282] 24 p3916 N84-34796

IBM FEDERAL SYSTEMS DIV., BETHESDA, MD.
Defense industry attitudes about AF interface standards report of an electronics industries association survey
[AD-P003570] 21 p3337 N84-31175

IBM FEDERAL SYSTEMS DIV., HOUSTON, TEXAS.
Cleanroom certification model
13 p2028 N84-23147
Projecting manpower to attain quality
13 p2028 N84-23148
A commonality approach to DoD command and control centers
[AD-P002153] 14 p2138 N84-23818

IBM FEDERAL SYSTEMS DIV., MANASSAS, VA.
LSI (Large Scale Integrated) design for testability: Design, demonstration and testability analysis
[AD-A135899] 09 p1308 N84-18550

IBM FEDERAL SYSTEMS DIV., OWEGO, N. Y.
Optimal reduced order controllers for discrete-time linear systems with partial state estimation
[AD-P002952] 14 p2199 N84-24192
Standard ISAs (Instruction Set Architectures) and VLSI (Very Large Scale Integration): Two interacting trends
[AD-P003563] 21 p3336 N84-31168

IBM FRANCE S. A., PARIS.
Interpretation of combined LANDSAT-Heat Capacity Mapping Mission (HCMM) data for geological analysis. Evaluation of scale effect on interpretation of a multisource image 23 p3769 N84-33894

IBM NORWAY, OSLO.
Infrared photothermal radiometry
[AD-A140562] 17 p2765 N84-27561

IBM RESEARCH LAB., SAN JOSE, CALIF.
Remote sensing applications of pulsed photothermal radiometry
[AD-A130154] 01 p0086 N84-10563
Thermal diffusivity in thin films measured by noncontact single-ended Pulsed-Laser-Induced thermal radiometry
[AD-A135991] 09 p1396 N84-19116

Theory of surface enhanced Raman scattering: A prospective view
[AD-A138320] 12 p1793 N84-21690
Surface plasmon-enhanced Raman scattering at thin silver films
[AD-A138321] 12 p1793 N84-21691
The potential dependence of surface plasmon-enhanced second harmonic generation at thin film silver electrodes
[AD-A138322] 12 p1793 N84-21692
Techniques of flash radiometry
[AD-A138412] 12 p1908 N84-22427
Pulsed-laser generation of ultra-short acoustic pulses: Application for thin-film ultrasonic measurements
[AD-A141874] 19 p3100 N84-29690
Optical generation and detection of acoustic pulse profiles in gases for novel ultrasonic absorption spectroscopy
[AD-A141876] 19 p3104 N84-29720
Photothermal spectroscopy of weakly absorbing samples using a thermal wave phase shifter
[AD-A142056] 19 p3104 N84-29721
Raman and infrared spectroscopy of molecules adsorbed on metal electrodes
[AD-A143466] 22 p3547 N84-32454
The interpretation of very low frequency Raman scattering from roughened silver electrodes: Clusters, cavities or complexes?
[AD-A143471] 22 p3657 N84-33184
Second harmonic generation at thin film silver electrodes via surface polaritons
[AD-A143597] 23 p3824 N84-34254
Spectroscopy of adsorbates by transient laser calorimetry
[AD-A144473] 24 p3880 N84-34584
Measurement of small elastic anisotropy in solids using laser induced ultrasonic pulses
[AD-A144296] 24 p3912 N84-34775
Pulsed photothermal radiometry for noncontact spectroscopy, material testing and inspection measurement
[AD-A144640] 24 p3964 N84-35101
Photothermal analysis of thin films
[AD-A144472] 24 p3967 N84-35120

IBM S.A. PROPRIETARY LTD., JOHANNESBURG (SOUTH AFRICA).
Keeping your fingers crossed won't help
05 p0718 N84-14702

IBM WATSON RESEARCH CENTER, YORKTOWN HEIGHTS, N.Y.
Study of the physics of insulating films as related to the reliability of metal-oxide semiconductor devices
[AD-A133674] 05 p0754 N84-14944
Laser studies of molecular dynamics
[AD-A138102] 12 p1820 N84-21864
A fast complementation algorithm for sum-of-products expressions of multiple-valued input binary functions
[AD-P002339] 14 p2191 N84-24130
Automated microdensitometer for digitizing astronomical plates 18 p2841 N84-28039
High-efficiency multi-colored photovoltaic cells
[PB84-200575] 22 p3619 N84-32932

ICF, INC., WASHINGTON, D. C.
Economic assessment of nine geothermal direct use applications
[DE84-006475] 12 p1844 N84-22021
The design of information structures: Basic allocation strategies for organizations
[AD-P002909] 13 p1981 N84-22861
Computer analysis of effects of altering jet fuel properties on refinery costs and yields
[NASA-CR-174642] 18 p2820 N84-27908

ICON, INC., SAN DIEGO, CALIF.
Device 2E6 (ACMS) Air Combat Maneuvering Simulator instructor console review
[AD-A138972] 13 p1935 N84-22587
Fleet project team participation in major aviation training device development, acquisition and support
[AD-A144182] 24 p3857 N84-34452

IDAHO NATIONAL ENGINEERING LAB., IDAHO FALLS.
Real-time attenuation of heated optical fibers in a nuclear reactor
[DE83-015141] 03 p0438 N84-12873
Thermomagnetic generator
[DE84-007685] 15 p2365 N84-25189

IDAHO UNIV., MOSCOW.
Hydrologic flow determination for hydropower feasibility analysis
[PB83-219758] 01 p0101 N84-10655
Aquaculture techniques: A production forecasting model for aquaculture systems
[PB83-221713] 01 p0112 N84-10730
Improved acid electrolytes for fuel cells
[PB84-179779] 16 p2519 N84-26173
Thermal ground water flow systems in the thrust zone in southeastern Idaho
[DE84-011598] 20 p3229 N84-30517
In-stream distribution and hydraulic and ecological effects of volcanic ash from Mount St. Helens eruption
[PB84-169382] 20 p3230 N84-30526

IFM AKUSTIBYRAN A.B., STOCKHOLM (SWEDEN).
Theoretical evaluation of the structural performance of Swedish fighter aircraft windshields subjected to bird impact
[AD-P003235] 17 p2597 N84-26648

IIT RESEARCH INST., CHICAGO, ILL.
Laser surface hardened patterns for increased ballistic protection
[AD-A130385] 01 p0043 N84-10277
Fire management-suppression system-concepts relating to aircraft cabin fire safety
[FAA-CT-82-134] 05 p0628 N84-14130
Extremely Low Frequency (ELF) communications system ecological monitoring program: Plan and summary of 1982 progress
[AD-A135482] 08 p1144 N84-17445
Embedded gage impact study
[NASA-CR-172227] 08 p1161 N84-17558
Intrasystem Analysis Program (IAP) code summaries
[AD-A135673] 09 p1301 N84-18507
Reliability modeling of critical electronic devices
[AD-A135705] 09 p1328 N84-18669
Interference measurements on amplitude compandored single sideband (ACSB) land mobil radio
[PB84-123645] 10 p1484 N84-19702
Representative electromagnetic field intensities near the Clam Lake, Wisconsin and Republic, Michigan ELF (Extremely Low Frequency) facilities
[AD-A140798] 17 p2654 N84-26972
An improved MSK generator diagnostic unit
[AD-A140568] 17 p2672 N84-27028
Creep-rupture behavior of candidate Stirling engine iron supperalloys in high-pressure hydrogen. Volume 2: Hydrogen creep-rupture behavior
[NASA-CR-174705] 19 p2992 N84-28961
Simulation of powder distribution in IITRI bag experiments
[AD-A141941] 20 p3170 N84-30128
Property screening and evaluation of ceramic turbine materials
[AD-A142739] 21 p3343 N84-31210

IIT RESEARCH INST., ROME, N.Y.
Data and analysis center for software: An IAC in transition
[AD-A135985] 09 p1369 N84-18936
An approach to software baseline generation
13 p2028 N84-23149

ILC DATA DEVICE CORP., BOHEMIA, N.Y.
MIL-STD-1553 interface application notes
[AD-P003539] 21 p3332 N84-31143

ILLINOIS INST. OF TECH., CHICAGO.
Metal-induced embrittlement of high purity 4140 steel by indium or indium-tin eutectic alloy
02 p0192 N84-11250
Symbol synchronization for the TDRSS decoder
[NASA-CR-170603] 02 p0207 N84-11352
Surface embrittlement of ductile polymers: A fracture mechanics approach 05 p0857 N84-14321
Permanence analysis of a concatenated coding scheme for error control
[NASA-CR-175345] 07 p0991 N84-16422
Understanding transition to turbulence in shear layers
[AD-A134796] 08 p1159 N84-17548
Applications of operations research and management information system concepts to management of large software projects 11 p1718 N84-21204
Enhancing effectiveness of information retrieval systems with relational thesauri 11 p1747 N84-21399
A study of reduced dependence in multi-valued sequential machines
[AD-P002326] 14 p2189 N84-24117
Automated design of combinational networks under specific constraints: A theorem proving approach
[AD-P002377] 14 p2195 N84-24168
Electrochemistry of carbides and carbon cathodes in molten halides
[DE84-007966] 15 p2287 N84-24725
On the undetected error probability of a concatenated coding scheme for error control
[NASA-CR-173613] 16 p2541 N84-26313
Fast decoding of a d(min) = 6 RS code
[NASA-CR-173620] 16 p2544 N84-26326
An extended d(min) = 4 RS code
[NASA-CR-173619] 16 p2544 N84-26327
Control of separated flowfields using forced unsteadiness 17 p2596 N84-26654
Surface embrittlement of polyethylene pipe grade resins
[PB84-181973] 17 p2627 N84-26811
Conceptual experiments in transition to turbulence through combined visualization and hot-wire techniques
[AD-A142193] 19 p3024 N84-29181
Undetected error probability and throughput analysis of a concatenated coding scheme
[NASA-CR-173983] 24 p3945 N84-34977

ILLINOIS STATE UNIV., NORMAL.
Molten salt electrochemical systems
[AD-A135108] 08 p1124 N84-17304

ILLINOIS STATE WATER SURVEY, CHAMPAIGN.
Summary of the VIN field program: Summer 1979
[AD-A130836] 01 p0108 N84-10704
Climate fluctuations in Illinois: 1901-1960
[PB84-159896] 14 p2181 N84-24069
Studies of statistical techniques to evaluate weather modification. Volume 1: Reports of OSET
[PB84-182906] 20 p3248 N84-30620
Variational objective analyses for cyclone studies
24 p3924 N84-34840

ILLINOIS STATE WATER SURVEY, URBANA.
Statistics of instantaneous rainfall rates
[AD-A130089] 01 p0107 N84-10695
Sub-cloud layer kinematics and convective rainfall in central Illinois
[AD-A134483] 07 p1039 N84-16741

ILLINOIS UNIV., CHAMPAIGN.
The event related brain potential as an index of information processing, cognitive activity, and skill acquisition: A program of basic research
[AD-A137779] 11 p1702 N84-21100
Psychophysiological tools in engineering psychology
[AD-P003337] 18 p2911 N84-28461

ILLINOIS UNIV., CHICAGO.
An experimental study of heat and momentum transfer in pipe flow of viscoelastic fluids
01 p0076 N84-10497
Singularities at the tip of a crack normal to the interface of an anisotropic layered composite
[AD-A131504] 01 p0096 N84-10625
A collection of A-optimal designs for control-test treatment comparisons, part 1
[AD-A129322] 01 p0132 N84-10866
Formation of surface layers during oxidation of a Fe-Mn-Si alloy
[DE83-009495] 03 p0354 N84-12302
Studies of collisional and nonlinear radiative processes for development of coherent UV and XUV sources
[AD-A131837] 03 p0379 N84-12467
Acoustic modelling and analysis of pulsating combustion in a gas-fired pulse burner 04 p0594 N84-13921
Generation of coherent, vacuum ultraviolet and extreme ultraviolet radiation 05 p0665 N84-14370
An experimental study of steady and pulsating heat transfer in curved tubes 06 p0845 N84-15515
A three-dimensional photoelastic investigation of stresses and cracks formed in concrete around deformed reinforcing bars 06 p0862 N84-15621
The 2-stage selection procedures based on tests
[AD-A133405] 06 p0904 N84-15871
Component relevancy in multistate systems
[AD-A137727] 11 p1713 N84-21169
On segmentation of digital images using spatial and contextual information via a 2-dimensional Markov model
[AD-A137942] 11 p1715 N84-21186
Shock waves in 3-dimensional elastic solids
[AD-A138018] 12 p1826 N84-21906
Polarization utilization in radar target reconstruction: C-wide (Multi-frequency) band relationship of a target's characteristic operators with its unique set of natural eigenfrequencies
[AD-A140092] 15 p2321 N84-24938
A theoretical analysis of natural convection towers for solar energy conversion
[DE83-011956] 16 p2512 N84-26118
Stress analysis of wire hoist rope
[PB84-172618] 17 p2681 N84-27075
Search for extended-lifetime optically excited laser media
[DE84-009795] 18 p2847 N84-28076
Perceptual factors in low altitude flight
[AD-P003329] 18 p2911 N84-28460
Nitrolysis of the CN single bond and related chemistry of nitro and nitroso groups
[AD-A141825] 19 p2989 N84-28937
Organic azides as jet fuel additives: Synthesis of azides and micro-explosion characteristics of droplets
20 p3144 N84-29963
A comparative study of linear array synthesis technique using a personal computer
[AD-P003500] 21 p3383 N84-31468
Probability of undetected error after decoding for a concatenated coding scheme
[NASA-CR-173837] 21 p3470 N84-31992

Hybrid stress reduced-Mindlin elements for thin multilayer plates with application to edge contact problems 22 p3606 N84-32857
Effect of Weissenberg number on turbulent heat transfer and friction factor of viscoelastic fluids 23 p3745 N84-33743
Surface property modification of silicon
[NASA-CR-173952] 23 p3788 N84-34023

ILLINOIS UNIV., URBANA.

Fluid dynamic mechanisms and interactions within separated flows and their effects on missile aerodynamics
[AD-A130831] 01 p0079 N84-10514
Harmonic generation in paramagnetic spin systems
[AD-A130895] 01 p0153 N84-11004
Optimization of long range major rehabilitation of airfield pavements 02 p0182 N84-11181
Rubber removal from porous friction course
[FAA-PM-83-31] 02 p0182 N84-11184
The application of multivariate source/receptor models to aerosol mass apportionment
[DE83-014592] 02 p0245 N84-11603
Photosynthesis in intact plants
[DE83-016045] 02 p0264 N84-11740
Artificial intelligence implications for information retrieval
[AD-A131382] 02 p0278 N84-11821
Thermolysis of 4-methyl-4-phenyl malonyl peroxide: A new oxygen dependent chemiluminescent reaction
[AD-A131863] 03 p0349 N84-12268
Flame acceleration mechanisms under conditions of partial confinement
[PB83-244012] 03 p0358 N84-12328
Transport and relaxation processes in supercritical fluids
[DE83-015966] 03 p0373 N84-12432
Design and implementation of a preprocessing system for a sodium lidar
[NASA-CR-174595] 03 p0378 N84-12462
Observations of the upper troposphere and lower stratosphere using the urbana coherent-scatter radar
[NASA-CR-174594] 03 p0407 N84-12664
TFTR alpha extraction and measurement project
[DE83-016120] 03 p0448 N84-12947
The mechanics of delamination in fiber-reinforced composite materials. Part 1: Stress singularities and solution structure
[NASA-CR-172269] 04 p0491 N84-13221
The mechanics of delamination in fiber-reinforced composite materials. Part 2: Delamination behavior and fracture mechanics parameters
[NASA-CR-172270] 04 p0491 N84-13222
FASTBUS diagnostic language users manual, version 3(74)
[DE83-017932] 04 p0581 N84-13837
Averaging procedures of multiphase conservation equations
[DE83-014686] 04 p0592 N84-13908
CTR plasma engineering studies
[DE84-001279] 04 p0607 N84-14006
Research activities that occurred in the Coordinated Science Laboratory for July 1, 1982 through Jun 30, 1983
[AD-A132132] 04 p0623 N84-14108
The effects of task structures, dynamics of difficulty changes, and strategic resource allocation training on time-sharing performance
[AD-A134112] 05 p0715 N84-14685
Processing phenomena and the dissociation between subjective and objective workload measures
[AD-A134050] 05 p0715 N84-14686
Untutored concept learning
[AD-A133766] 05 p0732 N84-14808
Rapid solidification processing and powder metallurgy of Al alloys
[AD-A133873] 06 p0806 N84-15250
Analysis of short pulse laser altimetry data obtained over horizontal path
[NASA-CR-170612] 06 p0849 N84-15535
Remote sensing of atmospheric pressure and sea state from satellites using short-pulse multicolor laser altimeters 06 p0872 N84-15674
Crack healing in polymers
[AD-A134488] 07 p0979 N84-16343
Experimental study of a dielectric antenna at the frequency range of 76-80 GHz
[AD-A134429] 07 p0993 N84-16438
An investigation of strip lines and fin lines with periodic stubs
[AD-A134430] 07 p0997 N84-16466
Identifying different item response curves
[AD-A133259] 07 p1049 N84-16798
Workshop on the Physics and Modeling of Submicron Structures
[AD-A134528] 07 p1081 N84-17026
Transport and relaxation processes in supercritical fluids
[DE84-002162] 07 p1081 N84-17030
Trailing edge flow conditions as a factor in airfoil design
[NASA-CR-173294] 08 p1098 N84-17140
Control strategies for complex systems for use in aerospace avionics
[AD-A135072] 08 p1104 N84-17179
Studies in fin-line antenna design for phased array applications
[AD-A135255] 08 p1144 N84-17444
Research in aeronomy
[NASA-CR-175370] 08 p1185 N84-17721
Algorithm for the detection and integration of highly oscillatory ordinary differential equations using a generalized unified modifiec divided difference representation
[DE84-003585] 08 p1222 N84-17978
High field transport of free carriers at the Si-SiO2 interface
[AD-A135338] 08 p1235 N84-18071
Development of a stress-dependent finite element slab model
[AD-A135836] 09 p1332 N84-18694
Investigation of high efficiency large TBW line acoustic wave convolvers
[AD-A135686] 09 p1387 N84-19056
X-ray topographic measurements of strain fields
[AD-A136310] 09 p1394 N84-19103
Numerical methods for analyzing electromagnetic scattering
[NASA-CR-175423] 10 p1473 N84-19620
Coupling between 2 arbitrarily oriented dipoles through multilayered shields
[AD-A137129] 10 p1478 N84-19660
The limits of multiple resource theory: The role of task correlation/integration in optimal display formatting
[AD-A136692] 10 p1554 N84-20182
A comparison of homogeneous and heterogeneous display formats in information integration and nonintegration tasks
[AD-A136693] 10 p1554 N84-20183
A study of the coherent structures in the viscous wall region of a turbulent flow
[AD-A137875] 11 p1652 N84-20788
Turbulent flow over small amplitude solid waves
[AD-A137876] 11 p1653 N84-20789
Theoretical and experimental analysis of laser altimeters for barometric measurements over the ocean
[NASA-CR-175443] 11 p1662 N84-20842
Systems of nonlinear algebraic equations arising in simulation of semiconductors devices
[DE84-006490] 11 p1716 N84-21195
Defect electrochemistry of oxide electrodes 11 p1742 N84-21364
Surface ignition and heterogeneous catalysis of hydrocarbon fuels
[AD-A138214] 12 p1792 N84-21686
Research planning task group study-thermal destruction
[PB84-145119] 12 p1804 N84-21764
Negative ion beam requirements for compact tori
[DE84-005752] 12 p1910 N84-22447
The effects of a spatial information format on decision making performance in a C3 (Command, Control, and Communications) probabilistic information integration task
[AD-P002887] 13 p1979 N84-22848
Nonlinear interactions between the pumping kinetics, fluid dynamics and optical resonator of CW fluid flow lasers
[AD-A139189] 14 p2150 N84-23882
Finite element model for nonaxisymmetric structure with rate dependent yield conditions
[AD-A139530] 14 p2158 N84-23930
Near Chapman-Jouget detonations
[AD-P002974] 14 p2201 N84-24210
On the moments of an additive function 14 p2210 N84-24265
Numerical simulation of strongly non-isothermal compression molding flows 15 p2306 N84-24834
Fluid flow in laser melted pool 15 p2306 N84-24837
Fatigue damage and crack growth in random short-fiber reinforced composites 15 p2308 N84-24847
Investigation of charge coupled devices for signal processing
[AD-A139820] 15 p2329 N84-24985
Dimensionality, scoring, and related problems in adaptive testing
[AD-A139849] 15 p2383 N84-25290
An expert distributed robotics system with comprehension and learning abilities in the aircraft flight domain
[AD-A139826] 15 p2384 N84-25300
Viscoelastic effect on dynamic crack propagation in Homalite 100
[AD-P003115] 16 p2468 N84-25820
Stress intensity factors for slightly kinked, partially closed cracks in compression
[AD-A140550] 16 p2503 N84-26064
The embedded operating system project
[NASA-CR-173438] 16 p2542 N84-26319
Exciplex ionic dissociation in non-polar solvent induced by multipolar salt complexes
[AD-A140919] 17 p2620 N84-26766
Baroclinic instability in the stratosphere and mesosphere 17 p2683 N84-27082
Interpretation of MST radar returns from clear air 17 p2683 N84-27085
Mesospheric scatter and its microstructure 17 p2684 N84-27090
Pulse stuttering as a remedy for aliased ground backscatter 17 p2685 N84-27098
Jicamarca mesospheric observations 17 p2686 N84-27100
Nighttime mesospheric returns associated with a large scale flare event 17 p2686 N84-27103
A comment on some drawbacks of monostatic radars 17 p2686 N84-27106
Spaced antenna drift 17 p2687 N84-27108
Effects of geophysical noise on the accuracy of wind determination 17 p2687 N84-27113
The Urbana MST radar, capabilities and limitations 17 p2691 N84-27136
Design considerations for MST radar antennas 17 p2693 N84-27153
Real-time MST radar signal processing using a microcomputer running under FORTH 17 p2695 N84-27165
Review of correlation techniques 17 p2695 N84-27166
Optimation of cooled shields in insulations
[NASA-CR-166583] 18 p2836 N84-27999
Initial validation of a functional age profile for aviators
[AD-P003271] 18 p2907 N84-28436
The limits of multiple resource theory in display formatting: Effects of task integration
[AD-P003321] 18 p2910 N84-28457
Mechanical properties of metal hydrides
[AD-A141496] 19 p2994 N84-28970
Nuclear magnetic resonance study of the structure of simple molecules adsorbed on metal surfaces: Acetylene on platinum
[DE84-008661] 19 p2996 N84-28981
High speed FETs fabricated in GaAs/AlGaAs layered structures prepared by molecular beam epitaxy
[AD-A141058] 19 p3013 N84-29096
A statistical procedure for assessing test dimensionality
[AD-A142179] 19 p3068 N84-29462
A multiple processing resource explanation of the subjective dimensions of operator workload
[AD-A141455] 19 p3070 N84-29480
Quasi-Newton and multigrid methods for semiconductor device simulation
[DE84-008487] 19 p3112 N84-29773
Formation of dispersions of rare earth oxides in titanium alloys using rapid solidification processing
[DE84-008664] 20 p3157 N84-30048
Experimental studies of laterally seeded recrystallized polysilicon on silicon dioxide
[AD-A142382] 20 p3162 N84-30077
The missing cone problem in computer tomography and a model for interpolation in synthetic aperture radar
[AD-A142421] 20 p3174 N84-30157
Performance of digital communications over selective fading channels
[AD-A142427] 20 p3174 N84-30158
A simulation program with latency exploitation for the transient analysis of digital circuits
[AD-A142377] 20 p3177 N84-30181
Modeling and extraction of interconnect parameters in very-large-scale integrated circuits
[AD-A142381] 20 p3178 N84-30182
A minimum area VLSI (Very Large Scale Integrated) architecture for O(logn) time sorting
[AD-A142414] 20 p3266 N84-30723
Analysis and control of a class of stiff linear distributed systems
[AD-A142364] 20 p3280 N84-30821
A numerical algorithm for chained aggregation and modified chained aggregation
[AD-A142394] 20 p3280 N84-30822
New algorithms for near neighbor searching
[AD-A142404] 20 p3280 N84-30824
The complexity of sorting on distributed systems
[AD-A142415] 20 p3281 N84-30825
Diffusion and electrical properties of sulfur implanted in gallium arsenide
[AD-A142405] 20 p3308 N84-31012

Fun with supersymmetric quantum mechanics
[DE84-011329] 20 p3312 N84-31031
Flapping-torsional response of helicopter rotor blades to turbulence excitation 21 p3327 N84-31110
High temperature X-ray decomposition studies of alpha phase nickel-silicon and beta phase copper-aluminum-nickel alloys 21 p3364 N84-31338
Phase transformations in nearly stoichiometric nickel-manganese alloys 21 p3364 N84-31340
Rapid solidification and undercooling of aluminum germanium alloys: Characterization and control of microstructure
[DE84-012395] 21 p3367 N84-31361
Performance of digital communications over selective fading channels 21 p3381 N84-31456
A method for the combination of stochastic time varying load effects 21 p3417 N84-31669
Modeling the behavior of type 304 stainless steel with a unified creep-plasticity theory
21 p3417 N84-31672
Software design issues in the implementation of hierarchical display editors 21 p3463 N84-31953
Page indexing for textual information retrieval systems
21 p3517 N84-32277
Numerical methods for analyzing electromagnetic scattering
[NASA-CR-173916] 22 p3575 N84-32645
Visible and near-infrared dissociation lasers
[AD-A143295] 22 p3601 N84-32807
Higher layer protocols for a workstation architecture
[DE84-013649] 22 p3641 N84-33087
Distributions of central quadratic forms in normal variables: A comparison of algorithms
[AD-A143468] 22 p3646 N84-33116
Signal detection in multiple-access channels
[AD-A143796] 23 p3731 N84-33648
The effect of lesions in the preoptic-anterior hypothalamus on the reflexive responses of rats to cold stress
[AD-A144020] 23 p3805 N84-34126
The workload book: Assessment of operator workload to engineering systems
[NASA-CR-166596] 23 p3810 N84-34160
Timing performance of phased-locked loops in optical pulse position modulation communication systems
[NASA-CR-173970] 23 p3824 N84-34253
Deflagration to shock to detonation transition of energetic propellants
[AD-A144469] 24 p3890 N84-34632
Monolithic microwave integrated circuit devices for active array antennas
[NASA-CR-173981] 24 p3897 N84-34675
Variational objective analyses for cyclone studies
24 p3924 N84-34840
Research in the design of high-performance reconfigurable systems
[NASA-CR-173998] 24 p3942 N84-34957

ILLINOIS UNIV., URBANA-CHAMPAIGN.

Research initiation: Aggregated hierarchical control
[PB83-226761] 01 p0135 N84-10887
A numerical study of the structure and vertical transport properties of a tropical convective system
02 p0252 N84-11651
Charge transfer cross-sections for N V and S III ions interacting with hydrogen atoms in astrophysical plasmas 02 p0307 N84-12014
Numerical analysis of stable crack growth in elastic-plastic materials in small scale and general yielding 03 p0391 N84-12549
The FASTBUS segment driver microcode description
[DE83-017972] 04 p0523 N84-13437
Polymer characterization by electrohydrodynamic ionization mass spectrometry: Probing composition and chemistry of mixtures in solution
06 p0809 N84-15264
Studies in unsteady penetrative thermal convection
06 p0833 N84-15422
The effect of turbulent atmosphere on backscattered waves 06 p0870 N84-15664
Middle latitude forcing of a model tropical atmosphere with horizontally nonuniform basic states
06 p0880 N84-15724
Ambipolar diffusion in interstellar clouds: One-dimensional, isothermal collapse
06 p0939 N84-16099
The interstellar medium along the line of sight toward X Per 06 p0939 N84-16101
Multilevel semantic analysis and problem-solving in the flight-domain
[NASA-CR-173177] 07 p1050 N84-16804
SAGA: A project to automate the management of software production systems
[NASA-CR-173206] 07 p1054 N84-16823
Role of Al-2O-3 in sintering of submicron yttria-stabilized ZrO-2 powders
[AD-A136798] 10 p1460 N84-19533
Stable Alfven wave dynamo action in the reversed field pinch
[DE84-004986] 10 p1586 N84-20397
Backward moving Altarelli-Parisi equations for transverse momentum calculations in jets
[ILL-(TH)-84-10] 11 p1712 N84-21164
The study of microstrip antenna arrays and related problems
[NASA-CR-173534] 14 p2136 N84-23807
Models of purposive human organization: A comparative study
[AD-A138871] 14 p2247 N84-24491
Predicted TF41 performance with the AGARD research fuel 15 p2293 N84-24763
Theory of the electronic structure and optical properties of organic solids: Exciton effects
[AD-A142544] 20 p3149 N84-29993
Wave attenuation and mode dispersion in a waveguide coated with lossy dielectric material
[NASA-CR-173820] 20 p3172 N84-30145
On fixed-interval minimum symbol error probability detection
[AD-A142465] 20 p3283 N84-30849
Numerical solution of the Euler and the Navier-Stokes equations for a compressible flow problem
21 p3397 N84-31551
Crack kinetics of the nickel-hydrogen system
21 p3416 N84-31665
Characterization of thermo-mechanical fatigue
21 p3418 N84-31673
The changes in the compressive and tensile yield strengths during uniaxial cyclic loading
21 p3418 N84-31674
Theoretical studies of the pulsar magnetosphere
21 p3437 N84-31809
Microfacies, depositional environments and diagenesis of the Amapa carbonates (Paleocene - Middle Miocene) Foz Do Amazonas Basin, offshore northeast Brazil
21 p3439 N84-31817
Microfacies, depositional models and diagenesis of Lagoa Feia Formation (lower cretaceous), Campos Basin, offshore Brazil 21 p3440 N84-31827
Argillic alteration associated with the Amethyst Vein System, Creede Mining District, Colorado
21 p3441 N84-31832
Content duplication among documents on specific subjects 21 p3516 N84-32274
The relationship between administrative style and the use of computer-based systems: An attitudinal study of academic library professionals 21 p3517 N84-32276
Theoretical models for the polarization of astronomical masers 21 p3522 N84-32313
The physical nature of the symbiotic stars
21 p3524 N84-32325
Momentum distributions in hcp, bcc, and liquid He-4
[DE84-014679] 23 p3831 N84-34300

IMHAUSEN-CHEMIE G.M.B.H., LAHR (WEST GERMANY).

Fundamental research for production of high polymers on synthesis gas basis
[BMFT-FB-T-84-075] 19 p3001 N84-29016

IMPERIAL COLL. OF SCIENCE AND TECHNOLOGY, LONDON (ENGLAND).

Instabilities in trailing vortices: Flow visualization using hot-wire anemometry 03 p0321 N84-12103
Turbulence modelling: A state-of-the-art review
[CFD/83/3] 03 p0374 N84-12435
A revised two-equation model of turbulence
[CFD/83/5] 03 p0374 N84-12436
Introduction to turbulent shear flows
06 p0837 N84-15449
Turbulent flow downstream of a backward-facing step
[CFD/83/2] 07 p1005 N84-16515
The magnetic-field investigation on ISPM
09 p1260 N84-18230
The ISPM cosmic-ray and solar-particle investigation
09 p1262 N84-18236
The role of hydrogen in the stress corrosion failure of high strength Al-Zn-Mg alloys
[AD-A136212] 09 p1284 N84-18388
Developing flow in S-shaped ducts. 2: Circular cross-section duct
[NASA-CR-3759] 09 p1312 N84-18572
The Z-pinch program at Imperial College
10 p1583 N84-20372
Energetics of oxygen ion transport in fluorite, perovskite and other oxide structures 11 p1740 N84-21354
Oxygen exchange measurements on zirconia-yttria electrolyte surfaces modified by various dopants
11 p1742 N84-21367
Calculations of intermittency in self-preserving, free turbulent jets and wakes
[CFD/83/10] 15 p2332 N84-25006
An improved version of the k-W model of turbulence
[CFD/83/1] 18 p2837 N84-28011
Proc. of a Course of Lectures and Computer Workshops on Computer Simulation of Multi-Phase Flows
[CFD/83/4] 18 p2838 N84-28012
Entrainment and deposition of drops in a dispersed 2-phase flow: An experimental investigation
[CFD/83/6] 18 p2838 N84-28013
Unsteady laminar natural convection inside an annular cavity
[CFD-83/8] 18 p2838 N84-28014
Simulation of vehicle aerodynamics by means of a general-purpose computer program
[CFD/84/4] 19 p2960 N84-28759
Mathematical modelling of Laser/Material interactions
[AD-A141096] 19 p3029 N84-29206
Progress in the development of an intermittency model of turbulence
[CFD/83/7] 20 p3188 N84-30255
Prediction of the temperature characteristics in intermittent, free turbulent shear layers
[CFD/84/1] 20 p3188 N84-30256
An application of fine potential theory to prove a Phragmen Lindeloef theorem 22 p3635 N84-33043
Evaluation of service lubricants and metals correlation of bench tests with engines
[AD-A143971] 23 p3718 N84-33569
Bursts and pressure fluctuations in turbulent boundary layers
[AD-A143811] 23 p3747 N84-33754
Circular-scan photochron streak camera for spaceborne laser ranging applications 24 p3906 N84-34741

IMPHY S.A. (FRANCE).

Vacuum recycling effect on minor elements in superalloys 23 p3704 N84-33481

IMPULSE ELECTRONICS, INC., LEXINGTON, MASS.

Long-life, high-current thyratrons for fast discharge lasers
[AD-A140817] 17 p2663 N84-26991

INDIAN INST. OF SCIENCE, BANGALORE.

Fourier optics for the Maxwell field: Formalism and applications
[DE84-002845] 06 p0826 N84-15383

INDIAN INST. OF TECH., BOMBAY.

On the breakdown of acceleration waves in radiative magneto-fluids 15 p2402 N84-25415

INDIAN INST. OF TECH., MADRAS.

On the Fatou set of monic polynomials
04 p0575 N84-13788
Surface fatigue characteristics of transmission gears
15 p2307 N84-24843

INDIAN INST. OF TECH., NEW DELHI.

Turbomachine blade vibration
10 p1505 N84-19839
Analytical and experimental investigation of rotating blade response due to nozzle passing frequency excitation 10 p1515 N84-19917

INDIAN SPACE RESEARCH ORGANIZATION, BANGALORE.

Thermal network correction by simplex optimization
10 p1442 N84-19422
An approach for agricultural drought monitoring using NOAA/AVHRR and LANDSAT imagery
23 p3769 N84-33893

INDIAN SPACE RESEARCH ORGANIZATION, TRIVANDRUM.

Separation and staging mechanisms for the Indian SLV-3 launch vehicle 15 p2349 N84-25095

INDIAN STATISTICAL INST., NEW DELHI.

On the A-integrability of singular integral transforms
22 p3635 N84-33042

INDIANA UNIV., BLOOMINGTON.

HEAO 1-A1 observations of AM Herculis and related objects
[NASA-CR-170907] 01 p0164 N84-11077
Polarity of the amphibian egg
02 p0263 N84-11731
An X-ray and optical survey of s-type Markarian galaxies 05 p0762 N84-14996
Theoretical and experimental studies of the electronic structure of the Mo3(Micro3-0)(Micro3-OR)(Micro-OR)3(OR)6 type of triangulo metal atom cluster compound
[AD-A133516] 06 p0915 N84-15951
Jet-impact nebulization for sample introduction in inductively coupled plasma spectrometry
[AD-A133152] 06 p0920 N84-15962
Spectroscopy of thermal energy transport
[AD-A134670] 08 p1235 N84-18073
Cytoplasmic rearrangements associated with amphibian egg symmetrization 09 p1357 N84-18867
A detailed consideration of resonance radiation trapping in the argon inductively coupled plasma
[AD-A136633] 09 p1391 N84-19085
A comparison of signal-to-noise ratios for near-infrared detectors
[AD-A138127] 12 p1907 N84-22426

Mini, micro, and high-efficiency torches for the ICP (Inductively-Coupled Plasma): Toys or tools?
[AD-A138144] 12 p1909 N84-22440
Toward a theory of library and information science
13 p2067 N84-23405
Time-resolved spectrophotometry of the nova-like cataclysmic variables RW trianguium and UX Ursa Majoris 13 p2069 N84-23408
A new method for obtaining individual component spectra from those of complex mixtures
[AD-A139262] 14 p2122 N84-23719
A detailed consideration of resonance radiation trapping in the argon inductively coupled plasma
[AD-A139369] 14 p2222 N84-24334
The effects of task variability, sensory reinforcement, and monetary reinforcement on performance, satisfaction, and intrinsic motivation 17 p2769 N84-27584
The effect of radiation pressure in nova ejecta
17 p2777 N84-27629
Reactions of metal-metal multiple bonds. Part 14: Synthesis and characterization of triangulo-W3 and Mo2W-oxo capped alkoxide clusters. Comproportionation of M-M triple bonds, sigma(2)pi(4) and d(o) Metal-oxo groups: M triple bond M + M triple bond O yields M3(micron 3-O)
[AD-A141067] 19 p2987 N84-28930
Indiana University Theoretical Particle Physics Group
[DE84-010593] 20 p3293 N84-30903
Multiphoton ionization mass and photoelectron spectroscopy
[AD-A143823] 23 p3714 N84-33542

INDUSTRIAL COLL. OF THE ARMED FORCES, WASHINGTON, D.C.
Identification of bottlenecks and capacity constraints in F-14, F-15, F-16, and F/A-18 aircraft production
[AD-A134629] 08 p1095 N84-17121
Mobilization and defense management technical reports series. Management implications of industrial support capabilities for Space Shuttle operations
[AD-A137460] 10 p1438 N84-19390

INDUSTRIAL ENVIRONMENTAL RESEARCH LAB., RESEARCH TRIANGLE PARK, N. C.
Indicators of hazard for polycyclic organic matter
[PB84-167493] 15 p2288 N84-24730
X-ray diffraction phase analysis of process and pollution control device samples
[PB84-168632] 15 p2367 N84-25201

INDUSTRIEANLAGEN-BETRIEBSGESELLSCHAFT M.B.H., OTTOBRUNN (WEST GERMANY).
Hydraulic actuators and associated components suited for multiaxis vibration systems 03 p0339 N84-12201
Concept of a safety system for a servohydraulic test facility 03 p0339 N84-12202
Mathematical modeling and simulation of multiaxis hydraulic test facilities 03 p0339 N84-12204
Simulation of electro-servo-hydraulic actuator for high quality testing 03 p0340 N84-12206
Simulation of mechanical cross coupling of multiaxes vibration facilities 03 p0340 N84-12207
The new space simulation and thermal vacuum facility WSA/TVA 10 p1448 N84-19460
Distortion measurement of antennas under space simulation conditions with high accuracy and high resolution by means of holography
24 p3864 N84-34491

INFLATION SYSTEMS INTERNATIONAL, CANYON COUNTRY, CALIF.
Development, test and delivery of solid propellant generators for inflation of PFD's
[AD-A130477] 21 p3460 N84-31946

INFODAS GESELLSCHAFT FUER SYSTEMENTWICKLUNG UND INFORMATIONSVERBEITUNG M.B.H., COLOGNE (WEST GERMANY).
Concept of a secure information system consisting of the components operating system, data base, dialogue system, and applications
[BMFT-FB-DV-83-005] 12 p1920 N84-22508

INFORMATICS GENERAL CORP., BELLEVUE, NEB.
Communications Support Processor (CSP)
[AD-A130360] 01 p0064 N84-10419

INFORMATICS GENERAL CORP., PALO ALTO, CALIF.
Guidelines for testing and release procedures
[NASA-CR-166581] 21 p3464 N84-31962

INFORMATICS, INC., PALO ALTO, CALIF.
CDC to CRAY FORTRAN conversion manual
[NASA-CR-166574] 12 p1879 N84-22243

INFORMATION AND CONTROL SYSTEMS, INC., HAMPTON, VA.
ATOPS B-737 inner-loop control system linear model construction and verification
[NASA-CR-166055] 01 p0012 N84-10078
Algorithms for output feedback, multiple-model, and decentralized control problems
11 p1617 N84-20583
Investigation and appreciation of optimal output feedback. Volume 1: A convergent algorithm for the stochastic infinite-time discrete optimal output feedback problem
[NASA-CR-3828] 21 p3344 N84-31217
Investigation, development and application of optimal output feedback theory. Volume 2: Development of an optimal, limited state feedback outer-loop digital flight control system for 3-D terminal area operation
[NASA-CR-3829] 21 p3344 N84-31218
A simulation of remote sensor systems and data processing algorithms for spectral feature classification
[NASA-CR-172393] 22 p3597 N84-32784

INFORMATION SPECTRUM, INC., ARLINGTON, VA.
Project UPGRADE extended statistical analysis
[AD-A130823] 01 p0137 N84-10897
Ris assessment techniques: A handbook for program management personnel
[AD-A131596] 03 p0457 N84-13010
Enhancement and verification of the Navy CASEE model (Calendar year 1982 task)
[AD-A133077] 05 p0730 N84-14793
Lessons learned--advanced attack helicopter
[AD-A135521] 08 p1104 N84-17177
Multiple launch rocket system: A case study of manpower, personnel and training requirements determination
[AD-A137644] 11 p1620 N84-20606
Enhancement and verification of the Navy CASEE (Comprehensive Aircraft Support Effectiveness Evaluation) model (calendar year 1983 task)
[AD-A138516] 12 p1764 N84-21505

INFORMATION VENTURES, INC., PHILADELPHIA, PA.
Biological Effects of Nonionizing Electromagnetic Radiation, volume 7, number 2-4, July - December 1982
[AD-A134674] 08 p1197 N84-17805
Biological effects of nonionizing electromagnetic radiation. Volume 8, Number 1: A digest of current literature
[AD-A139296] 15 p2380 N84-25283

INFRARED LABS., INC., TUCSON, ARIZ.
Advanced components for spaceborne infrared astronomy
[NASA-CR-166585] 17 p2671 N84-27025

INNSBRUCK UNIV. (AUSTRIA).
Snow and ice monitoring by microwave techniques
08 p1176 N84-17660
Data set description and bias
09 p1408 N84-19197
Correction of data-quality induced bias
09 p1409 N84-19209
Tunable far infrared semiconductor sources
[AD-A137777] 11 p1647 N84-20767

INRIA, ROCQUENCOURT (FRANCE).
Design and complexity of VLSI algorithms
08 p1208 N84-17876

INSTITUT AEROTECHNIQUE DE SAINT-CYR, SAINT-CYR-L'ECOLE (FRANCE).
Producing a cryogenic gust in an Eiffel type atmospheric wind tunnel with short gust 14 p2095 N84-23569

INSTITUT D'AERONOMIE SPATIALE DE BELGIQUE, BRUSSELS.
Interdisciplinary study of directional discontinuities in the solar wind with ISPM 09 p1263 N84-18242
Summary of 25 years of spacecraft launching
[AERONOMICA-ACTA-A-34-1983]
16 p2455 N84-25744
A sample performance of the grille spectrometer aboard Spacelab
[AERONOMICA-ACTA-A-281-1984]
16 p2494 N84-26003
Coupling between the thermosphere and the stratosphere: The role of nitric oxide
[AERONOMICA-ACTA-A-270-1983]
16 p2520 N84-26175
Self-oscillations and predictability in climate dynamics
[AERONOMICA-ACTA-A-278-1984]
16 p2527 N84-26226
Boundary layers in space plasmas: A kinetic model of tangential discontinuities
[AERONOMICA-ACTA-A-280-1984]
16 p2558 N84-26406
On molecular scattering in the terrestrial atmosphere: An empirical formula for its calculation in the homosphere
[AERONOMICA-ACTA-A-284-1984]
20 p3239 N84-30564
Trace constituants measurements deduced from spectrometric observations onboard Spacelab
[AERONOMICA-ACTA-A-286-1984]
20 p3239 N84-30565

INSTITUT D'ASTROPHYSIQUE, PARIS (FRANCE).
Far UV excess and gas content of SO galaxies
24 p3971 N84-35144
Interstellar lines in high resolution IUE spectra of run-away B type stars 24 p3973 N84-35160
Ultraviolet fluxes of blue straggler stars
24 p3974 N84-35165

INSTITUT DE GENIE LOGICIEL, PARIS (FRANCE).
A Specification Assistance System (SAS)
05 p0721 N84-14731

INSTITUT DE PHYSIQUE DU GLOBE, PARIS (FRANCE).
Somali current studied from SEASAT altimetry
17 p2719 N84-27307

INSTITUT DE RECHERCHE DE TRANSPORTS, BRON (FRANCE).
The lead file: Car fuel additives
[INFORM-NOTE-29] 17 p2725 N84-27341

INSTITUT DE SOUDURE, PARIS (FRANCE).
Improving comfort of welders by reducing preheating temperatures
[CETIM-12-Y-413] 21 p3414 N84-31651
Investigation of in position end to end welding of an aluminum alloy by electron beam
[CETIM-12-Y-442] 21 p3414 N84-31652

INSTITUT FRANCAIS DU PETROLE, RUEIL-MALMAISON.
Radar bathymetry : A review
03 p0400 N84-12612
Modeling of elastic wave propagation by finite difference and finite element methods 23 p3777 N84-33944

INSTITUT FUER ANGEWANDTE GEODAESIE, FRANKFURT AM MAIN (WEST GERMANY).
Reports on cartography and geodesy, series 1: Original reports, no. 89
[ISSN-0469-4236] 07 p1018 N84-16602
BIZEPS and raster graphics 07 p1018 N84-16603
Production of printing originals for multicolor printings using raster plotters working on an electrostatic basis
07 p1018 N84-16604
The graphical kernel system: Concepts and realization in Common Graphical Manager (CGM)
07 p1018 N84-16605
Transformation procedures for interactive digitizing apparatus 07 p1018 N84-16606
New developments in digitizing and processing map data on large scales by Ordnance Survey (OS), Southampton, England 07 p1018 N84-16607
Automation in digitizing large scale maps
07 p1019 N84-16608
Digitizing of block and parish boundary maps: Aids, experiences and problems 07 p1019 N84-16609
Computer assisted processing of soil productivity assessment data for the production of soil classification maps on the basis of soil productivity assessment data on the scale 1:5000 (DGK 5 Bo)
07 p1019 N84-16610
A program system for computer assisted acquisition and analysis of classification maps in land association
07 p1019 N84-16611
Use of the interactive graphical system SICAD for computer assisted land evaluation and redistribution in land consolidation 07 p1019 N84-16612
Automatic connection of map edges for adjacent CIPS data bases 07 p1019 N84-16613
Software concept for an interactive graphics system for large scale topographic cartography
07 p1019 N84-16614
Reports on cartography and geodesy, series 1: Original reports, number 90
[ISSN-0469-4236] 08 p1173 N84-17643
The importance of radio interferometry for geodynamics 08 p1173 N84-17644
Investigations of Doppler position determination following the short arc and semi short arc techniques
08 p1174 N84-17645
Results of permanent Doppler measurements at the satellite observation station Wettzell
08 p1174 N84-17646
Calibration measurements of Doppler receivers
08 p1174 N84-17647
Results of the simultaneous Doppler measuring campaign HOTDOC from 29 September to 10 October 1979 08 p1174 N84-17648
The mobile laser ranging system and its planned use in the framework of international research on geodynamics 08 p1174 N84-17649
Digital signal processing in computer aided cartography
[SER-C-278-MITT-163] 10 p1526 N84-19998
A European astro-gravimetric geoid
[SER-B-269] 17 p2727 N84-27355
The computation of an astrogravimetric geoid by adjustment 17 p2727 N84-27357
Investigation of the combination of geodetic point aggregations
[SER-C-285] 18 p2866 N84-28199
Reports on cartography and geodesy. Series 2: Translations, number 40
[ISSN-0469-4244] 19 p3039 N84-29279
The program ORBDOP (extended GEODOP)
19 p3039 N84-29280

Satellite Doppler point positioning using the Navy Navigation Satellite System 19 p3039 N84-29281
Final results of Doppler point positioning at several timekeeping laboratories in Europe 19 p3039 N84-29282
Noise reduction and line following in multiscanned data 19 p3039 N84-29283
Contributions to imaging quality and heighting accuracy of aerial cameras used at fairly high altitudes 19 p3040 N84-29284
Report on the International Cartographic Association Seminar on computer assisted mapping and charting 19 p3040 N84-29285
Reports on cartography and geodesy. Series 1: Original reports, number 91
[ISSN-0469-4236] 19 p3040 N84-29286
Public water supply base map 1 : 200,000 19 p3040 N84-29287
Relationships between ellipsoid parameters 19 p3040 N84-29288
Doppler observation campaign in the Ivory Coast: Reconnaissance, measuring, interpretation and experience 19 p3040 N84-29289
Design and operation mode of Nd:YAP lasers in Modular Transportable Laser Ranging System (MTLRS) 19 p3040 N84-29290
Automation-associated revision conception of the general topographic map 1 : 200,000 using raster data 19 p3040 N84-29291
A data management system for digital raster maps 19 p3041 N84-29292
Reports on cartography and geodesy. Series 2: Translations, number 41. Report on high precision gravimetry, volume 2
[ISSN-0469-4244] 19 p3043 N84-29306
Reports on cartography and geodesy. Series 1: Original reports, number 92
[ISSN-0469-4236] 20 p3225 N84-30495
DIGMAP, an interactive graphic support system for mine survey 20 p3225 N84-30496
Automatic symbol generating for topographic maps using raster data processing following the example of the general topographic map 1:200,000 (TUEK 200) 20 p3226 N84-30497
Application of FASTRAK by Skandinavisk Autodigitaliserings AB (SADAB) cartographic service 20 p3226 N84-30498
COMEDG: A program to combine logically independent line segments into geometrically coherent lines 20 p3226 N84-30499
Automation assisted gathering, processing, and representation of topographic data for the production of the German basic map 1:5000 - height in Lower Saxony 20 p3226 N84-30500
Forest generalization by digital raster data processing 20 p3226 N84-30501
Cooperative line extraction of aerial photos and maps 20 p3226 N84-30502
Software research for computer aided cartography at the Berlin Technical University 20 p3226 N84-30503
An example of computer aided generalization of TK 25 20 p3227 N84-30504
An investigation of the reproduction of the general topographic map 1:200,000 in shortened scale with a digital raster data processing system 20 p3227 N84-30505
A system for automatic digitization of cartographic line drawings 20 p3227 N84-30506
Raster processing for regional planning tasks 20 p3227 N84-30507
The automated cadastral plan, a source for the topographic country map works 20 p3227 N84-30508
Suggestion for a cartographic pattern recognition system using digital raster data processing methods 20 p3227 N84-30509

INSTITUT FUER DIGITALE BILDVERARBEITUNG UND GRAPHIK, GRAZ (AUSTRIA).
Evaluation of radargrammetric stereo
[AD-A139565] 14 p2141 N84-23835
Differential rectification of SLR-images using map-derived and radar-generated digital elevation models
[AD-A141828] 19 p3006 N84-29054

INSTITUT FUER INFORMATIK, ZURICH (SWITZERLAND).
Algorithms and file structures for computational geometry
[AD-A144381] 24 p3951 N84-35018

INSTITUT FUER RUNDFUNKTECHNIK, MUNICH (WEST GERMANY).
Graphic and visual presentation of aerospace date 11 p1751 N84-21431

INSTITUT FUER WEHRMEDIZIN UND HYGIENE, KOBLENZ (WEST GERMANY).
Sustained military operations with particular reference to prolonged exercise 11 p1699 N84-21081

INSTITUT GEOGRAPHIQUE NATIONAL, BRUSSELS (BELGIUM).
Remote sensing and topographic maps 03 p0398 N84-12600

INSTITUT GEOGRAPHIQUE NATIONAL, PARIS (FRANCE).
Research on land use cartography by remote sensing 18 p2867 N84-28201
Remote sensing of the Santonge littoral. Processing and interpretation of satellite images
[ISBN-2-85929-016-8] 18 p2867 N84-28202

INSTITUT NATIONAL D'ASTRONOMIE ET DE GEOPHYSIQUE, PARIS (FRANCE).
A new measuring machine in Paris 18 p2842 N84-28047

INSTITUT NATIONAL DE RECHERCHE D'INFORMATIQUE ET D'AUTOMATIQUE, ROCQUENCOURT (FRANCE).
Validation methods for mathematical models of flexible satellite dynamics
[ESA-CR(P)-1794] 08 p1113 N84-17241

INSTITUT NATIONAL DES SCIENCES APPLIQUEES DE LYON, VILLEURBANNE (FRANCE).
A set function approach to cluster analysis 09 p1412 N84-19237
Dynamic behavior of composite layered beams by the finite element method 10 p1511 N84-19892
Prediction of critical speeds, unbalance and nonsynchronous forced response of rotors 10 p1515 N84-19918

INSTITUT ROYAL METEOROLOGIQUE DE BELGIQUE, BRUSSELS.
Publications 20 p3245 N84-30594

INSTITUT STRAUMANN, A.G., WALDENBURG (EAST GERMANY).
Mechanochemical effects in demineralization and mineralization of bone 23 p3808 N84-34146

INSTITUTE FOR ADVANCED STUDY, PRINCETON, N.J.
On the structure of self-similar fractals 04 p0576 N84-13791

INSTITUTE FOR ATMOSPHERIC OPTICS AND REMOTE SENSING, HAMPTON, VA.
Forward multiple scattering corrections as function of detector field of view
[AD-A130631] 01 p0106 N84-10686
Development of a global model for atmospheric backscatter at CO2 wavelengths
[NASA-CR-171130] 21 p3382 N84-31459
Development of a global model for atmospheric backscatter at CO2 wavelengths
[NASA-CR-171117] 21 p3442 N84-31835
Development of a global model for atmospheric backscatter at CO2 wavelengths
[NASA-CR-171116] 21 p3442 N84-31836
Development of a global model for atmospheric backscatter at CO2 wavelengths
[NASA-CR-171127] 21 p3442 N84-31837
Development of a global model for atmospheric backscatter at CO2 wavelengths 24 p3924 N84-34838

INSTITUTE FOR COORDINATION OF COMPUTING TECHNIQUES, BUDAPEST (HUNGARY).
Qualigraph: A software tool for quality metrics and graphic documentation 05 p0723 N84-14739

INSTITUTE FOR DEFENSE ANALYSES, ALEXANDRIA, VA.
C-3I local area networks: An assessment
[AD-A134194] 07 p0992 N84-16431
IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study bibliography
[AD-A137327] 10 p1503 N84-19825
R and M (Reliability and Maintainability) parameter analysis document IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A137328] 10 p1503 N84-19826
Artificial intelligence applications to maintenance technology working group report IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A137329] 10 p1503 N84-19827
Cabling and connectors technology working group report IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A137330] 10 p1504 N84-19828
Structural composites technology working group report IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A137331] 10 p1504 N84-19829
Directed energy technology working group report IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A137332] 10 p1504 N84-19830
Fiber optics technology working group report IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study. Part 1: Executive summary
[AD-A137333] 10 p1504 N84-19831
Operational software technology working group report IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A137335] 10 p1504 N84-19832
Electronic packaging and interconnect technology working group report IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A137336] 10 p1504 N84-19833
Mechanical systems conditioning monitoring technology working group report IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability Maintainability) study
[AD-A137524] 10 p1504 N84-19834
Power supply technology working group report IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A137525] 10 p1504 N84-19835
Testing technology working group report IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A137526] 10 p1504 N84-19836
VHSIC technology working group report (IDA/OSD R&M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A137720] 11 p1646 N84-20766
CAD/CAM technology working group report IDA/OSD R/M (Institute for Defense Analyses/Office of the Secretary of Defense Research and Maintainability) study
[AD-A137761] 11 p1666 N84-20867
Report of findings and recommendations: Software Engineering Institute Study Panel
[AD-A138282] 12 p1882 N84-22267
Nondestructive Evaluation Technology Working Group report (IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability study)
[AD-A139484] 14 p2156 N84-23919
Integrated systems of manufacture (robotics) technology working group report (IDA/OSD Rand M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study)
[AD-A140304] 16 p2477 N84-25878
Competition as an acquisition strategy: Impact of competitive research and development on procurement costs
[AD-A141313] 18 p2944 N84-26867
F/A-18 AN/APG-65 radar case study report (IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A142103] 19 p3007 N84-29057
AN/TPQ-36 and AN/TPQ-37 firefinder radars case study report (IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Research and Maintainability) study
[AD-A142104] 19 p3007 N84-29058
AN/APN-128 Lightweight Doppler Navigation System (LDNS) case study report (IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A142072] 20 p3127 N84-29860
F-15 AN/APG-63 radar case study report IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A142071] 20 p3129 N84-29873
F-16 APG-66 fire control radar case study report IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A142075] 20 p3129 N84-29874
R and M (Reliability and Maintainability) program review elements document (IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A142073] 20 p3199 N84-30322
T700 engine case study report. IDA/OSD R and M (Institute for Defense Analyses/Office of the Secretary of Defense Reliability and Maintainability) study
[AD-A143104] 21 p3343 N84-31211

C3I (Command, Control, Communications and Intelligence) information systems internetwork study
[AD-A144271] 24 p3942 N84-34958
Operating costs of aircraft and flight simulators
[AD-A144241] 24 p3969 N84-35132

INSTITUTE FOR ENERGY ANALYSIS, OAK RIDGE, TENN.
Carbon dioxide emissions from fossil fuels: A procedure for estimation and results for 1950 - 1981
[DOE/NBB-0036] 19 p3052 N84-29365

INSTITUTE FOR ENERGY ANALYSIS, WASHINGTON, D.C.
An analysis of possible future atmospheric retention of fossil fuel CO-2
[DOE/OR-21400/1] 23 p3793 N84-34054

INSTITUTE FOR FOREIGN POLICY ANALYSIS, INC., CAMBRIDGE, MASS.
Transatlantic policy divergencies: Implications for the United States
[AD-A140574] 17 p2773 N84-27606

INSTITUTE FOR IMAGE PROCESSING COMPUTER MAPPING, GRAZ (AUSTRIA).
Experiments to correct a digital map data base using scene analysis
[AD-A139447] 14 p2248 N84-24499

INSTITUTE FOR PERCEPTION RVO-TNO, SOESTERBERG (NETHERLANDS).
Technique for measuring the sound pressure levels under flying helmets and headsets
[IZF-1982-39] 02 p0269 N84-11765
Some issues in research on effects of sustained work and sleep loss on performance
11 p1697 N84-21071
Motion sickness
[IZF-1983-21] 12 p1866 N84-22158
Time to Line Crossing (TLC): A new method to describe driving performance
[IZF-1983-10] 12 p1867 N84-22165
Societal versus individual decision making: How they might differ
[IZF-1983-20] 12 p1867 N84-22166
Open and closed loop steering in a lane change maneuver
[IZF-1983-22] 12 p1867 N84-22167
Investigation of the effect of the viewing target height on the eye height of sitting Visual Display Unit (VDU) operators
[IZF-1983-9] 12 p1869 N84-22177
Optimal control model applications and field measurements with respect to car driving
[IZF-1983-18] 12 p1892 N84-22324
Comparative investigation of the sound attenuation of four types of flyer helmets
[IZF-1983-7] 12 p1899 N84-22370
Active sound reduction systems
[IZF-1983-8] 12 p1900 N84-22371
The audiomat: An automatic audiometer to be used in occupational audiometry
[IZF-1983-17] 12 p1900 N84-22372
Annoyance ratings for impulse and traffic sounds presented in quiet surroundings
[IZF-1983-23] 12 p1900 N84-22373
Annoyance ratings for impulse and traffic sounds at two different background noise levels
[IZF-1983-27] 17 p2725 N84-27345
The effects of marginal vitamin deficiency on mental performance
[IZF-1983-29] 18 p2914 N84-28483
Ergonomic aspects of road vehicles. Part 1: A literature survey of some aspects
[IZF-1983-15] 18 p2915 N84-28487
A re-evaluations of cancellation theory: Visual, vestibular and oculomotor contributions to perceived object motion
[AD-B082936] 19 p3067 N84-29455
Visual obscuration by smoke screens: Results of the Oldebroek 2 trials, May 1981 Part 1: Theory, methods and photometric analysis
[IZF-1984-10] 19 p3105 N84-29730
Selection of elements in process schemes on Cathode Ray Tube (CRT). A comparative study between four types of trackballs
[IZF-1984-4] 20 p3182 N84-30213
Orientation of ergonomic aspects of the Universal Dynamometer Device
[IZF-1983-25] 20 p3199 N84-30315

INSTITUTE FOR TELECOMMUNICATION SCIENCES, BOULDER, COLO.
Optimum reception in non-Gaussian electromagnetic interference environments. Part 2: Optimum and suboptimum threshold signal detection in class A and B noise
[PB83-241141] 03 p0363 N84-12364
Alternative transmission media for third-generation interface standards
[PB83-238345] 03 p0363 N84-12365
Further investigations of the multiple knife-edge attenuation function
[PB83-245043] 04 p0523 N84-13442
The IF-77 electromagnetic wave propagation model
[AD-A134504] 07 p0993 N84-16441
The use of burst transmission to increase communication range: A feasibility study
[PB84-111400] 08 p1147 N84-17467
Estimating the performance of telecommunication systems using the ionospheric transmission channel. Ionospheric communications analysis and prediction program user's manual
[PB84-111210] 08 p1147 N84-17468
Climatological coefficients for rain attenuation at millimeter wavelengths
[PB84-104272] 08 p1148 N84-17475
Atmospheric millimeter wave propagation model
[PB84-143494] 11 p1645 N84-20754
Global maps of foF2 derived from observations and theoretical values
[PB84-163906] 15 p2369 N84-25215
The evaluation of prediction models for microwave attenuation by rainfall
[PB84-182104] 20 p3176 N84-30170
NETWORK: A user oriented, interactive, station-siting program for NOAA (National Oceanic and Atmospheric Administration) VHF weather radio
[PB84-202233] 21 p3466 N84-31978
Microwave terrestrial link rain attenuation prediction parameter analysis
[PB84-207984] 22 p3578 N84-32666
Computer-based transmission monitor and control system
[PB84-202068] 22 p3639 N84-33069

INSTITUTE OF ASTRONOMY, CAMBRIDGE (ENGLAND).
The automated photographic measuring facility at Cambridge
18 p2842 N84-28043
Next generation microdensitometer
18 p2842 N84-28048

INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, NEW YORK, N.Y.
IEEE Transactions on Nuclear Science. Volume NS-30, no. 4, part 2: 1983 Particle Accelerator Conference
[DE84-007400] 20 p3294 N84-30914

INSTITUTE OF GAS TECHNOLOGY, CHICAGO, ILL.
Synthetic fuels from US oil shales: A technical and economic verification of the HYTORT PROCESS
[DE83-005440] 01 p0053 N84-10345
Medium- and high-pressure sonic leak pinpointing
[PB83-228361] 01 p0086 N84-10557
USAF advanced terrestrial energy study. Volume 1: Project summary
[AD-A133803] 05 p0699 N84-14588
High-temperature molten salt thermal energy storage systems for solar applications
[NASA-CR-167916] 06 p0873 N84-15679
USAF advanced terrestrial energy study. Volume 2: Technology handbook
[AD-A133272] 06 p0873 N84-15684
USAF advanced terrestrial energy study. Volume 3: Parameter survey
[AD-A133501] 06 p0874 N84-15685
USAF advanced terrestrial energy study. Volume 4: Analysis, data, and bibliography
[AD-A133514] 06 p0874 N84-15686
Systems analysis of electricity production from coal using fuel cells
[NASA-CR-173157] 07 p1026 N84-16645
Electrochemistry of the sulfide-polysulfide couple
[DE84-005881] 11 p1629 N84-20661
Biothermal conversion of biomass and wastes to methane
[DE84-006052] 11 p1675 N84-20931
Gas-fired heat pump research and development: Review and assessment
[PB84-153907] 14 p2135 N84-23796
Effects of H2S on molten carbonate fuel cells
[DE84-010485] 20 p3234 N84-30531
Effects of system and geometrical parameters on the flow of Class-B solids in overflow standpipes
[DE84-013948] 22 p3594 N84-32762
Advanced onboard storage concepts for natural gas-fueled automotive vehicles
[NASA-CR-174655] 23 p3790 N84-34036

INSTITUTE OF GEOLOGICAL SCIENCES, EDINBURGH (SCOTLAND).
Magnetic results 1982: Eskdalemuir, Hartland and Lerwick Observatories
[BULL-15] 18 p2880 N84-28289

INSTITUTE OF MARINE RESEARCH, HELSINKI (FINLAND).
Investigation of ice dynamics in the marginal ice zone
[AD-A138558] 17 p2737 N84-27387

INSTITUTE OF NUCLEAR RESEARCH, SWIERK (POLAND).
Preliminary investigations of 360 kJ plasma focus device, part 2
10 p1581 N84-20359
Studies on ion beams produced in a plasma focus, part 2
10 p1582 N84-20364
The optimization method for the Mather plasma focus device
10 p1583 N84-20377

INSTITUTE OF OCEAN SCIENCES, SIDNEY (BRITISH COLUMBIA).
Eddy heat flux in the North Pacific
[AD-P002666] 11 p1691 N84-21031
Some comments on the atmospheric boundary layer over the ocean and its parameterization, appendix K
18 p2885 N84-28306

INSTITUTE OF OCEANOGRAPHIC SCIENCES, BIRKENHEAD (ENGLAND).
The effects of wind waves on sea level at the coast
[IOS-155] 07 p1042 N84-16754
An algorithm to compute the geoid surface
[IOS-168] 18 p2881 N84-28290
Routine storm surge forecasting using numerical models: Procedures and computer programs for use on the CDC CYBER 205E at the British Meteorological Office
[IOS-167] 18 p2891 N84-28353
Publications and reports of the Institute of Oceanographic Sciences 1979-1982
[IOS-170] 18 p2892 N84-28354
Charts of the O1, K1, N2, M2, and S2 tides in the Celtic Sea including M2 and S2 tidal currents
[IOS-169] 18 p2893 N84-28360

INSTITUTE OF OCEANOGRAPHIC SCIENCES, TAUNTON (ENGLAND).
Sizewell-Dunwich Banks field study, topic report 7: A study of nearshore sediment transport process
[IOS-146] 02 p0258 N84-11690
Nonlinear filter system for image preprocessing
[BMFT-FB-DV-83-001] 02 p0274 N84-11796
Cruises undertaken by the Institute of Oceanographic Sciences, Tauton, 1981
[IOS-133] 07 p1041 N84-16753
Surface wave propagation over sinusoidally varying topography: Theory and observation
[IOS-159-PT-1] 13 p1991 N84-22922
Surface wave propagation over sinusoidally varying topography: Theory and observation
[IOS-159-PT-2] 13 p1991 N84-22923
Waves recorded off the Eddystone lighthouse. Data for September 1978 to August 1981 at posiion 50 deg 10 min N, 004 deg 15 min W: Summary analysis and interpretation report
[IOS-132] 13 p2019 N84-23090
Sedimentation studies relevant to low-level radioactive effluent dispersal in the Irish Sea. Part 3: An evaluation of possible mechanisms for the incorporation of radionuclides into marine sediments
[IOS-178] 19 p3062 N84-29431

INSTITUTE OF OCEANOGRAPHIC SCIENCES, WORMLEY (ENGLAND).
Geotechnical properties of deep sea sediments: A critical review of measurement techniques
[IOS-134] 02 p0258 N84-11689
The CTD data collected in the Rockall trough on RRS Shackleton Cruise 5c/78 during JASIN 1978
[IOS-147] 02 p0258 N84-11691
Long SeaSoar CTD sections in the northeast Atlantic Ocean collected during RRS Discovery Cruise 116
[IOS-148] 02 p0258 N84-11692
Benthic boundary layer - IOS modelling programme
[IOS-162] 07 p1074 N84-16983
Structural studies of the northwest Iberian continental margin using long-range side-scan sonar
[IOS-161] 15 p2366 N84-25198
Benthic boundary layer: IOS observational programme
[IOS-163] 15 p2372 N84-25232
CTD data from the N.E. Atlantic 31N to 46N, July 1982 Discovery cruise 130
[IOS-165] 15 p2372 N84-25233
Surface and atmospheric boundary layer. Observations from ships, appendix D
18 p2884 N84-28299
Preliminary studies of the total cation exchange capacity of sediments from two North Atlantic study sites
[IOS-158] 19 p3062 N84-29430
King's Trough Flank: Geological and geophysical investigations of its suitability for high-level radioactive waste disposal
[IOS-166] 20 p3299 N84-30950

INSTITUTE OF PLASMA PHYSICS AND LASER MICROFUSION, WARSAW (POLAND).
Review of plasma flow research at the Institute of Plasma Physics and Laser Microfusion (IPPLM)
10 p1581 N84-20358
A diode model of high energy particle emission in the plasma focus device
10 p1582 N84-20368

INSTITUTE OF SPACE AND ASTRONAUTICAL SCIENCE, TOKYO (JAPAN).

Highlights of the electron beam experiments in space in Japan 05 p0637 N84-14191

Beam Plasma Discharge (BPD) experiments in the laboratory 05 p0638 N84-14197

Space experiments with particle accelerators (SEPAC). Science problems of SEPAC/Spacelab 1 mission 05 p0641 N84-14221

Flow visualization and LDV measurement of turbulent mixing layers
[REPT-606] 06 p0834 N84-15424

Synthesis of insensitive controllers in linear quadratic control problems
[REPT-605] 06 p0900 N84-15841

Fine pointing control of the solar UV telescope on the sounding rocket S-520-5
[ISAS-608] 06 p0938 N84-16094

Zero gravity experiment of superfluid helium
[ISAS-604] 07 p0960 N84-16225

Gas-particle mixture flows in a spinning solid rocket motor
[ISAS-607] 07 p0965 N84-16252

An analysis of the buckling of truncated or complete spherical shells under axial compressive loads 07 p0985 N84-16379

Thermofluidynamics of heat pipes 10 p1443 N84-19423

Measurement of alpha/epsilon ratio by using a Sun pointing satellite Tansei 4 10 p1446 N84-19447

Measurement of incidence angle dependence of solar absorptance 10 p1447 N84-19452

Design and operation of a deployable truss structure 15 p2347 N84-25082

An MPD thruster with liquid metal injection
[ISAS-610] 20 p3165 N84-30103

Proceedings of the Symposium on Mechanics for Space Flight
[ISAS-SP-2] 20 p3168 N84-30114

Numerical simulation of autorotation 20 p3168 N84-30118

A numerical study of artificial electron aurora experiments
[ISAS-611] 20 p3240 N84-30568

Derivation of crustal magnetic anomalies from MAGSAT
[REPT-609] 20 p3240 N84-30569

Experimental study on porous-plug phase separator for superfluid He2
[ISAS-612] 20 p3308 N84-31008

INSTITUTE OF THEORETICAL ASTRONOMY, LENINGRAD (USSR).

Theory of rotation of the rigid Earth 07 p1030 N84-16674

INSTITUTE TNO FOR MECHANICAL CONSTRUCTIONS, DELFT (NETHERLANDS).

Experimental verification of constitutive equations for plasticity under biaxial, cyclic and nonradial loading conditions
[REPT-5011202-81-1] 17 p2625 N84-26798

Prediction of ductile crack growth in the austenitic steel WN 1.4948 at ambient and elevated temperature
[REPT-5011202-81-2] 17 p2625 N84-26799

Experimental verification of constitutive equations for creep and the interaction of creep and plasticity under biaxial loading conditions
[REPT-5011202-81-3] 17 p2625 N84-26800

Multidirectional force and moment transducer
[REPT-5211901-80-1] 17 p2629 N84-26815

Multidirectional force and moment transducer 17 p2629 N84-26816

Pressure compensated force transducer 17 p2629 N84-26817

INSTITUTO DE ELECTRONICA DE COMMUNICACIONES, MADRID (SPAIN).

Development of a slotted waveguide array panel for SAR antenna: Electrical design and testing
[IEC-MO-80/11] 23 p3732 N84-33656

INSTITUTO DE PESQUISAS ESPACIAIS, SAO JOSE DOS CAMPOS (BRAZIL).

The effects of solar incidence angle over digital processing of LANDSAT data
[E84-10007] 01 p0099 N84-10641

Mission analysis: Definition of orbital geometry of artificial satellites
[INPE-2843-TDL/141] 02 p0184 N84-11194

Dynamic analysis of spacecraft trajectory and attitude in an orbital insertion
[INPE-2845-TDL/142] 02 p0185 N84-11203

Ion thruster project
[INPE-2803-PRE/363] 02 p0186 N84-11205

Determination of ccmposition profile for isomorphic binary alloys
[INPE-2813-RPE/438] 02 p0193 N84-11251

Lidar studies of the alkali metals
[INPE-2892-PRE/411] 02 p0193 N84-11252

Preparation of anhydrous hydrazine
[INPE-2606-PRE/366] 02 p0203 N84-11320

An on-board control and supervision system for multiple space mission applications is considered
[INPE-2824-PRE/378] 02 p0206 N84-11354

A carrier recovery closed loop implementation in high velocity PSK modems by digital techniques
[INPE-2822-PRE/376] 02 p0208 N84-11355

Analysis of a communication interface using multimicroprocessing
[INPE-2823-PRE/377] 02 p0208 N84-11356

An on board control and supervisory system
[INPE-2812-TDL/139] 02 p0208 N84-11357

Adaptation and arrangements for transparency microfilming
[INPE-2831-PRE/382] 02 p0222 N84-11454

Comparison of SCC magnitudes at MAGSAT altitudes (325-550 km) and at ground locations
[INPE-2890-PRE/409] 02 p0239 N84-11564

Maps of favorable areas for tuna fishing in the southwestern Atlantic prepared from satellite data
[INPE-2891-PRE/410] 02 p0239 N84-11565

Spectral behavior of four soils from the state of Sao Paulo at the orbital, field, and laboratory levels
[INPE-2878-TDL/144] 02 p0239 N84-11566

Digital transmission and visualization of meteorological satellite images
[INPE-2809-PRE/367] 02 p0239 N84-11567

Atmospheric correction studies/processing image no. I-100
[INPE-2870-RPE/442] 02 p0239 N84-11568

Solar wind energy transfer to the terrestrial magnetosphere by magnetic junction in the magnetopause
[INPE-2848-RPE/439] 02 p0247 N84-11617

Vertical mapping of quasistatic and large scale ionospheric electric fields in low latitudes
[INPE-2838-PRE/385] 02 p0247 N84-11618

Study on the applicability of the international ionospheric model IRI 79 for obtaining electron density profiles
[INPE-2817-PRE/372] 02 p0247 N84-11619

Tidal and solar cycle effects on the OI 5577 angstrom, NaD and OH(8,3)airglow emissions observed at 23 deg S
[INPE-2901-PRE/419] 02 p0248 N84-11620

A study of the surface layer on an extremely rough surface
[INPE-2829-PRE/381] 02 p0248 N84-11621

Behavior of the total electron content in the ionosphere in Sao Jose dos Campos during magnetic storms in 1980
[INPE-2810-PRE/368] 02 p0248 N84-11623

Applications of fluid mechanics to meteorology
[INPE-2839-PRE/386] 02 p0253 N84-11655

The southern oscilation: Oceanic-atmospheric circulation changes and related rainfall anomalies
[INPE-2903-PRE/420] 02 p0253 N84-11656

Periodicities in the rainfall patterns of different regions in India
[INPE-2899-PRE/418] 02 p0253 N84-11657

A data compressor system
[INPE-2847-PRE/389] 02 p0270 N84-11766

Portable kernel for computers
[INPE-2877-PRE/403] 02 p0271 N84-11775

Recursive analysis of the geomagnetic vector field
[INPE-2865-PRE/400] 02 p0272 N84-11776

Digital image processing
[INPE-2873-PRE/402] 02 p0277 N84-11816

A numerical method for solving by approximation an advanced integro-differential equation
[INPE-2826-PRE/379] 02 p0279 N84-11830

Systems dynamics: Recent technical advances and current projects
[INPE-2846-PRE/388] 02 p0286 N84-11874

Introduction to fuzzy decision rules
[INPE-2855-TDL/143] 02 p0286 N84-11875

Efficiency of wood as a passive shielding for particles and photons of 0.5 to 4.6 MeV between 940 and 377 mb
[INPE-2864-PRE/399] 02 p0288 N84-11891

Photoconductor fabrication for operation in the thermal infrared
[INPE-2835-PRE/384] 02 p0298 N84-11952

A cluster model for two-dimensional disordered systems
[INPE-2895-PRE/414] 02 p0298 N84-11953

Observations of galactic center for annihilation line at 0.511 MeV
[INPE-2907-PRE/421] 02 p0305 N84-12000

Influence of the magnetic field in the temporal evolution of solar flare X-ray and microwave radiation
[INPE-2842-TDL/140] 02 p0308 N84-12020

Satellite communication, part 1
[INPE-2893-PRE/417] 03 p0359 N84-12337

Digital image registration by sequential analysis
[INPE-2940-PHE/429] 03 p0376 N84-12446

Single Pb (1-x)Sn(x) Te crystal growth by vapor phase transport, with formation of a liquid/solid interface
[INPE-2811-PRE/369] 03 p0451 N84-12967

Simulation and analysis of low altitude terrestrial satellites
[INPE-2754-PRE/330] 04 p0488 N84-13209

L band low noise amplifier project
[INPE-2794-PRE/356] 04 p0524 N84-13445

INTAC: A computer-aided test interface
[INPE-2792-TDL/138] 04 p0524 N84-13446

Geologic survey in the south-central region of Mato Grosso
[E84-10039] 04 p0551 N84-13632

Application of remote sensing to hydrological problems and floods
[E84-10046] 04 p0553 N84-13639

Rise in the frequency of cloud cover in LANDSAT data for the period 1973 to 1981
[E84-10047] 04 p0553 N84-13640

Interpretation of aeromagnetic anomalies of the Quadrilatero Ferrifero region
[INPE-2897-PRE/416] 04 p0582 N84-13707

FORTH: An unconventional programming language
[INPE-2894-PRE/413] 04 p0578 N84-13813

Use of an exact penalty function for optimization of discrete problems
[INPE-2769-PRE/342] 04 p0588 N84-13883

Study of the optimal control problem solving in the Bolza form by the finite element method
[INPE-2750-PRE/326] 04 p0588 N84-13884

Telescope calibration for gamma spectroscopy with a new Ge(Li) diode configuration
[INPE-2885-PRE/407] 04 p0619 N84-14083

Subsystem duplexer for a 6-4 GHz Earth station
[INPE-2795-PRE/357] 05 p0666 N84-14379

Numerical problems for the implantation of an INPE atmospheric correction system for LANDSAT images
[INPE-2801-PRE/361] 05 p0721 N84-14727

Sensitivity analysis of the influence of the flexibility of solar panels on the attitude dynamics of artificial satellites
[INPE-2763-PRE/337] 07 p0961 N84-16232

Combustion instability: Measurement of acoustic admittance in solid propellant
[INPE-2789-NTE/201] 07 p0980 N84-16352

Urban land use of the Sao Paulo metropolitan area by automatic analysis of LANDSAT data
[E84-10069] 07 p1020 N84-16616

Multiseasonal and geobotanical approach in remote detection of greisenization areas in the Serra da Pedra Branca Granite, Goias State, Brazil
[E84-10070] 07 p1020 N84-16617

CNPq/INPE LANDSAT system
[E84-10071] 07 p1020 N84-16618

Geostationary meteorological satellite image navigation
[INPE-2772-RPE/435] 07 p1023 N84-16632

On the estimation of zero-plane displacement for tall vegetation
[INPE-2946-PRE/430] 07 p1023 N84-16634

Assessments by satellite of meteorological data for water resources
[INPE-2949-PRE/432] 07 p1023 N84-16635

A preliminary study of the observed vertical mode structure of the summer circulation over tropical South America
[INPE-2914-PRE/426] 07 p1031 N84-16689

Energy transfer by magnetopause reconnection and the substorm parameter epsilon
[INPE-2908-PRE/422] 07 p1031 N84-16690

Are Northern Hemisphere tropospheric ozone densities larger?
[INPE-2910-PRE/423] 07 p1031 N84-16691

Maximum entropy spectral analysis of total zone
[INPE-2979-PRE/441] 07 p1032 N84-16694

Monthly variation of 200 MB flow in the tropics
[INPE-2953-PRE/435] 07 p1032 N84-16695

Blocking in the Southern Hemisphere, during 1975-1979
[INPE-2994-PRE/446] 07 p1032 N84-16696

Tropical heat sources and their associated large-scale atmospheric circulation
[INPE-2727-TDL/133] 07 p1032 N84-16697

A vector concept based on set theory
[INPE-2977-PRE/439] 07 p1068 N84-16936

The hydrogen molecule for a two-dimensional system
[INPE-2981-PRE/443] 07 p1071 N84-16958

Clustering model in n-doped many-valley semiconductors
[INPE-2911-PRE/424] 07 p1079 N84-17015

UNISPACE-82: Recommendations addressed to member states on the development of indigenous capabilities and follow-up actions for their implementation
[INPE-2915-PRE/427] 07 p1087 N84-17071

The October 1983 recurrence of the outburst of the Orion water maser source and its past history
[INPE-2985-PRE/444] 07 p1088 N84-17076
The simplest solar microbursts flux and circular polarization at 22 GHz
[INPE-2970-PRE/436] 07 p1092 N84-17104
PULSAR: A balloon-borne experiment to detect variable low energy gamma-ray
[INPE-2950-PRE/433] 07 p1093 N84-17108
INTAC: Digital and analog circuit test language
[INPE-2764-PRE/338] 08 p1211 N84-17898
Model and analysis of a communication interface with distributed processing for application in a communication network by packet switching
[INPE-2773-TDL/136] 08 p1215 N84-17926
Geography information systems project
[INPE-2782-PRE/348] 08 p1239 N84-18100
Voice processor for a single channel per carrier FM earth station
[INPE-2707-TDL/130] 09 p1298 N84-18485
Science analysis by knowledge stored in associative networks
[INPE-2784-PRE/350] 09 p1366 N84-18920
Error measurement of a deterministic approximation for stochastic production planning problem
[INPE-2768-PRE/341] 09 p1381 N84-19017
Meteorological database
[INPE-2790-PRE/353] 09 p1399 N84-19135
A semianalytic method of orbital propagation for mission analysis
[INPE-2748-PRE/324] 10 p1435 N84-19360
Capture of satellite stabilized by gravity gradient with a flexible mast during and after deployment
[INPE-2749-PRE/325] 10 p1436 N84-19383
Active mixer with dual gated FET
[INPE-2744-TDL/135] 10 p1484 N84-19704
Current status of th Brazilian LANDSAT facilities
10 p1523 N84-19977
Study of the seasonal variation of the tropical ocean front between the Brazil Current and the Malvinas Current, using oceanographic and SMS-2 satellite data
[INPE-2780-TDL/137] 10 p1539 N84-20082
An inventory planning system
[INPE-2766-PRE/339] 10 p1591 N84-20423
Oscillation phenomena in the solar atmosphere and modulation by microwave radiation
[INPE-2743-TDL/134] 10 p1596 N84-20463
Low noise microwave frequency synthesizers
[INPE-2796-PRE/358] 11 p1642 N84-20733
Tidal oscillations in the atmospheric sodium layer
[INPE-3008-PRE/454] 12 p1846 N84-22033
The night airglow O2(1-Sigma) atmospheric band at 8645A and the rotational temperature observed at 23 deg S
[INPE-3021-PRE/459] 12 p1846 N84-22034
Vertical and horizontal phase propagation in the mesopause region observed by the OI5577 angstrom, O/sub 2 atmospheric band, NaD and OH(8,3) band nightglow emissions
[INPE-3022-PRE/460] 12 p1846 N84-22035
Plasma bubble irregularity occurrence and zonal velocities under quiet and disturbed conditions, from polarimeter observations
[INPE-3023-PRE/461] 12 p1846 N84-22036
Solar cycle related range type spread F occurrence characteristics over equatorial and low latitude stations in Brazil
[INPE-3024-PRE/462] 12 p1846 N84-22037
Longitudinal extent of the characteristics of the equatorial electrojet
[INPE-3027-PRE/465] 12 p1847 N84-22038
Equatorial plasma bubble eastward velocity characteristics from scanning airglow photometer measurements over Cachoeira Paulista
[INPE-3026-PRE/464] 12 p1847 N84-22039
Low latitude F-region studies using the OI6300 angstrom and 7744 angstrom nightglow measurements at Cachoeira Paulista, Brazil
[INPE-3025-PRE/463] 12 p1847 N84-22040
The ocean and the dynamics of the tropical atmosphere: Its possible predictability
[INPE-2998-PRE/450] 12 p1847 N84-22041
The water balance and climate
[INPE-2997-PRE/449] 12 p1859 N84-22114
The Amazon and climate
[NASA-CR-173406] 12 p1860 N84-22115
Two-dimensional impurity bands at semiconductor hetero-structure interfaces
[INPE-2996-PRE/448] 12 p1912 N84-22456
Stochastic techniques applied to the smoothing treatment of bias and compression of artificial satellite tracking and telemetry data
[INPE-2909-TDL/148] 13 p1938 N84-22604
Atmospheric correction study/atmospheric model optimization
[INPE-2959-RPE/448] 13 p2010 N84-23040
Influence of extratropical heteorological phenomenon on the northeast Brazilian climate: A study using finite elements
[INPE-2912-PRE/425] 13 p2016 N84-23072
A one dimensional model for the study of upwelling
[INPE-2936-RPE/445] 13 p2018 N84-23086
Ordered address binary trees: A technique for the optimization of access to trees on disk
[INPE-2916-PRE/426] 13 p2026 N84-23133
Study of variability in extragalactic radio sources at 22 GHz and 44 GHz
[INPE-2913-TDL/149] 13 p2092 N84-23549
Utilization of digital LANDSAT imagery for the study of granitoid bodies in Rondonia: Case example of the Pedra Branca massif
[E84-10120] 14 p2167 N84-23979
Evaluation of the effects of the seasonal variation of solar elevation angle and azimuth on the processes of digital filtering and thematic classification of relief units
[E84-10121] 14 p2167 N84-23980
Semi-analytical procedure for the propagation of artificial satellite orbits based on parameter estimation
[INPE-2757-PRE/333] 15 p2270 N84-24628
Principles of combustion
[INPE-2759-MD/023] 15 p2286 N84-24717
Orbital imagery: A cartographic solution
[INPE-2820-PRE/374] 15 p2357 N84-25143
SIRIUS: Bibliographic search and retrieval system
[INPE-2771-PRE/344] 15 p2417 N84-25512
Equipment for measuring the distance of satellite in low orbit
[INPE-3126-PRE/517] 16 p2455 N84-25739
Numerical orbit generators of artificial earth satellites
[INPE-3050-RPE/455] 16 p2455 N84-25740
Satellite communication, part 2
[INPE-3107-PRE/506] 16 p2481 N84-25906
Low noise amplifier at L band
[INPE-3128-PRE/519] 16 p2483 N84-25925
Basic elements of the tilting filter photometer
[INPE-3124-MD/026] 16 p2495 N84-26006
Basic elements of laser radar
[INPE-3123-MD/025] 16 p2497 N84-26021
Irrigated rice area estimation using remote sensing techniques: Project's proposal and preliminary results
[E84-10131] 16 p2506 N84-26081
Principal components technique analysis for vegetation and land use discrimination
[E84-10135] 16 p2506 N84-26083
Sampling system for wheat (Triticum aestivum L) area estimation using digital LANDSAT MSS data and aerial photographs
[E84-10139] 16 p2506 N84-26087
Evaluation of solar angle variation over digital processing of LANDSAT imagery
[E84-10140] 16 p2507 N84-26088
Evaluation of entropy and JM-distance criterions as features selection methods using spectral and spatial features derived from LANDSAT images
[E84-10141] 16 p2507 N84-26089
Application of LANDSAT data to the study of urban development in Brasilia
[E84-10142] 16 p2507 N84-26090
An integrated software system for geometric correction of LANDSAT MSS imagery
[E84-10143] 16 p2507 N84-26091
Forest inventory using multistage sampling with probability proportional to size
[E84-10144] 16 p2507 N84-26092
Multiseasonal variables in digital image enhancements for geological applications
[E84-10145] 16 p2508 N84-26093
Field data observed during the geological excursion in the west-central region of the Sul-Riograndе Shield
[E84-10146] 16 p2508 N84-26094
The use of an image registration technique in the urban growth monitoring
[E84-10147] 16 p2508 N84-26095
Evaluation of SIR-A (Shuttle Imaging Radar) images from the Tres Marias region (Minas Gerais State, Brazil) using derived spatial features and registration with MSS-LANDSAT images
[E84-10148] 16 p2508 N84-26096
Results of field observations of radio waves in alluvial deposits in Cara state from 1:100.000: Fortaleza, Canirde, Taperuaba, Santa Quiteria, Sobral, and Sao Luiz do Curu
[INPE-3061-NTE/216] 16 p2509 N84-26100
Methodological approach in lithological discrimination by digital processing: A case study in the Serra do Ramalho, state of Bahia
[INPE-3108-PRE/507] 16 p2509 N84-26101
A simplified upper atmosphere model to explain seasonal phenomena
[INPE-3071-PRE/488] 16 p2521 N84-26181
On the 1983 drought in Northeast Brazil
[INPE-3110-PRE/509] 16 p2528 N84-26229
The management of atmospheric resources in food production
[INPE-3121-PRE/514] 16 p2528 N84-26231
Seasonal oscillations of the subtropical convergence between the Brazil and Malvinas currents, using oceanographic and SMS-2 satellite data
[INPE-3092-PRE/497] 16 p2532 N84-26255
Maps of favorable areas for tuna fishing to the South and Southeast of Brazil prepared from SMS-2 satellite data
[INPE-3102-PRE/501] 16 p2532 N84-26256
The initial orientation of homing pigeons on the magnetic equator, with and without Sun compass
[INPE-3104-PRE/503] 16 p2534 N84-26271
Optimal design of a storage system with constant or linear release rate
[INPE-3125-PRE/516] 16 p2541 N84-26311
Programming language LANAC 2 and implementation for a SISCO MB-8000
[INPE-3090-TDL/163] 16 p2543 N84-26322
Trends in data communication by computer networks in space missions
[INPE-3068-PRE/485] 16 p2545 N84-26338
A problem in the optimal control of queueing workloads for the M/G/1 file
[INPE-3106-PRE/505] 16 p2546 N84-26339
Virtual Z-trees: A balancing technique for multiway search trees
[INPE-3093-TDL/164] 16 p2547 N84-26348
Compacted virtual search tree and addressed ordered binary trees for file organization
[INPE-3075-TDL/161] 16 p2548 N84-26349
On the relationship between Gaussian and binomial models for image registration by sequential tests of hyphoteses
[INPE-3047-PRE/470] 16 p2548 N84-26350
Resistivity of a 2-D electron gas under strong magnetic field using a memory function formulation
[INPE-3118-PRE/513] 16 p2558 N84-26407
Resistivity of a disordered 2-D electron gas in terms of force-force correlation function
[INPE-3065-PRE/482] 16 p2558 N84-26408
Impurity states in 2- and 3-dimensional disordered systems
[INPE-3066-PRE/483] 16 p2559 N84-26416
The 2-D impurity states associated with inversion layers
[INPE-3081-PRE/493] 16 p2559 N84-26417
Memory function formalism applied to electronic transport in disordered systems
[INPE-3064-PRE/481] 16 p2559 N84-26418
A calculation of the pressure dependent energy bands of cooper chloride
[INPE-3094-PRE/498] 16 p2559 N84-26419
A cluster model for the determination of the state of impurities in crystal
[INPE-3048-PRE/471] 16 p2559 N84-26420
The use of photointerpretation for socio-economic characterization of urban population
[INPE-3067-PRE/484] 16 p2561 N84-26426
Brazil national report on radio astronomy (1981 - 1984)
[INPE-3052-PRE/473] 16 p2573 N84-26516
Timing analysis of hard X-ray emission and 22 GHz flux and polarization in a solar burst
[INPE-3103-PRE/502] 16 p2581 N84-26551
Design study for a low density wind tunnel
[INPE-3072-TDL/160] 17 p2610 N84-26707
A preliminary definition of the Brazilian Complete Space Mission (MECB) ground segment
[INPE-3036-NTE/215] 17 p2612 N84-26717
Optimal position of solar arrays on sunsychronous satellites
[INPE-3010-RPE/454] 17 p2614 N84-26732
Satellite control by stabilizing flaps
[INPE-2889-TDL/145] 17 p2614 N84-26733
Safety in the handling of rocket motors
[INPE-3033-NTE/214] 17 p2616 N84-26745
Analysis of housekeeping radiolinks satellite/ground station
[INPE-3097-NTE/217] 17 p2652 N84-26957
System requirements for a SCPC FM low capacity Earth station
[INPE-2943-NTE/207] 17 p2652 N84-26958
Comparative measurement of capacitance in solar cells for space and terrestrial applications
17 p2662 N84-26984
Identification and estimation of the area planted with irrigated rice based on the visual interpretation of LANDSAT MSS data
[E84-10164] 17 p2710 N84-27256
A sampling system for estimating the cultivation of wheat (Triticum aestivum L) from LANDSAT data
[E84-10165] 17 p2711 N84-27257

Project SERGE: Brazil referential field data for the SIR-A experiment
[INPE-2973-NTE/210] 17 p2711 N84-27259

A report of Ceara Project activities
[INPE-2988-RPE/452] 17 p2711 N84-27260

Research and applications of data from environmental satellites: Determining parameters and developing interpretation techniques for applications of environmental satellite data
[INPE-3005-NTE/213] 17 p2711 N84-27261

Basic elements of nuclear geophysics
[INPE-3002-PRE/452] 17 p2726 N84-27350

A report on the task of collecting geological and structural data in Rio de Janeiro state
[INPE-2851-NTE/203] 17 p2726 N84-27351

Field studies in the structural society project: Mineralized lineaments
[INPE-2876-NTE/205] 17 p2726 N84-27352

A system for managing meteorological data
[INPE-3029-PRE/466] 17 p2733 N84-27373

A numerical model for studying some coastal circulation
[INPE-2904-RPE/444] 17 p2737 N84-27386

Microcomputer and mythology: Procrustean assignments
[INPE-3012-PRE/455] 17 p2749 N84-27449

Where and how variables are structured in the ZX81/TS1000/ TK82C/CP200 memory
[INPE-3014-PRE/457] 17 p2749 N84-27450

A fast interpolator with slope specification
[INPE-3058-PRE/478] 17 p2751 N84-27462

A proposal for the extension of the LISP language
[INPE-3056-PRE/476] 17 p2752 N84-27463

Automatic image processing
[INPE-3001-MD/024] 17 p2752 N84-27464

A static analyzer of FORTRAN programs
[INPE-3016-TDL/155] 17 p2752 N84-27465

Bringing together various programs and data packets in the ZX81/TS1000/TK82C/CP200 memory
[INPE-3013-PRE/456] 17 p2752 N84-27466

Data smoothing: An automatic algorithm
[INPE-3034-PRE/468] 17 p2752 N84-27467

Is artificial intelligence possible?
[INPE-3007-PRE/453] 17 p2757 N84-27499

Study of the numerical solution of some diffusion problems using the finite element method
[INPE-3003-TDL/154] 17 p2757 N84-27504

The efficiency of wood as a passive shield for particles and photons of 0.5 to 4.6 MeV between 940 and 377 mb
[INPE-2900-TDL/146] 17 p2764 N84-27554

Search for new water vapor masers in the direction of ROW 19-20, 38 and 48-49
[INPE-3039-TDL/156] 17 p2775 N84-27622

Boundary conditions for the phenomena of solar bursts established from the statistical behavior of hard X-ray bands
[INPE-2906-TDL/147] 17 p2780 N84-27653

A stochastic approach to global error estimation in the numerical solution of ordinary differential equations
19 p3118 N84-29815

An adaptive satellite orbit estimation scheme using an analytical approach and a dynamical model compensation technique 19 p3119 N84-29821

A rapid estimation of near earth satellite lifetimes with quasi-dynamic atmospheric model with application to a proposed Brazilian satellite 19 p3119 N84-29823

Attitude determination using strapdown inertial sensors and adaptive estimation
[INPE-3180-PRE/545] 21 p3327 N84-31106

An adaptive attitude controller for terrestrial artificial satellites
[INPE-3186-PRE/551] 21 p3349 N84-31243

A rocket-borne Langmuir probe for in-situ measurement of ionospheric plasma
[INPE-3206-PRE/564] 21 p3349 N84-31244

Optimization of the capture process for a rigid satellite stabilized by gravity gradient
[INPE-3184-PRE/549] 21 p3349 N84-31245

Pitch control of a satellite using stabilizing flaps
[INPE-3185-PRE/550] 21 p3349 N84-31246

BRESEX: On board supervision, basic architecture and preliminary aspects for payload and space shuttle interface
[NASA-CR-173673] 21 p3353 N84-31271

Phase modulator in 41.650 MHz
[INPE-3177-PRE/544] 21 p3391 N84-31515

P-I-N Diode Switches Project
[INPE-3171-PRE/541] 21 p3391 N84-31516

Synthesis of MIG-type electron guns for gyrotrons
[INPE-3191-PRE/555] 21 p3391 N84-31517

Nonlinear theory of the free-electron laser
[INPE-3193-PRE/557] 21 p3409 N84-31618

The INPE handouts to the 6th LANDSAT Technical Working Group (LTWG) Meeting
[E84-10176] 21 p3427 N84-31738

Two years experience testing solar collectors in Brazil
[INPE-3221-RPE/461] 21 p3434 N84-31785

Nighttime enhancements in the TEC and magnetic storm response of the tropical F-region over Brazil
[INPE-3038-PRE/469] 21 p3442 N84-31839

Variability in the height distribution of electrojet currents of Jicamarca
[INPE-3205-PRE/563] 21 p3442 N84-31840

Comparison between density profiles obtained at Cachoeira Paulista, Brazil, and deduced from IRI-79 model
[INPE-3136-PRE/527] 21 p3443 N84-31843

Temperature oscillations and ozone correlations in the lower stratosphere of Natal (6 deg S)
[INPE-3116-PRE/512] 21 p3443 N84-31844

The use of infrared imagery in the study of fault zones
[INPE-3143-PRE/529] 21 p3443 N84-31845

On the zonally averaged temperature in the Southern Hemisphere
[INPE-3139-PRE/528] 21 p3443 N84-31846

Teleconnections and sea surface temperature anomaly effects on the drought of 1983 in northeast Brazil
[INPE-3214-PRE/567] 21 p3446 N84-31867

Interannual variations of rainfall in northeast Brazil and their connections with the large-scale features
[INPE-3207-PRE/565] 21 p3447 N84-31868

Daily variations of temperature and humidity within and above Amazonian forest
[INPE-3196-PRE/560] 21 p3447 N84-31869

Application of an adaptive noise technique on state estimation to data smoothing
[INPE-3187-PRE/552] 21 p3465 N84-31963

Auxiliary programs for the Metal-Enclosed Microstrips Project
[INPE-3172-PRE/542] 21 p3465 N84-31964

A fast method for computer image enhancement
[INPE-3170-PRE/540] 21 p3465 N84-31965

The surface generation using weighted splines
[INPE-3160-PRE/534] 21 p3470 N84-31994

State estimation and parameter identification: An approach involving a pair consisting of the initial state and the trajectory
[INPE-3183-PRE/548] 21 p3471 N84-31995

Compensating technique using one active control scheme to nullify the acummulated effect of modelling deviation
[INPE-3181-PRE/546] 21 p3471 N84-31996

Smoothing on the frequency domain
[INPE-3182-PRE/547] 21 p3471 N84-31997

Tutorial: Fuzzy sets and applications
[INPE-3168-PRE/538] 21 p3471 N84-31998

Ray tracing study of electron cyclotron heating in the TBR 2 Tokamak
[INPE-3192-PRE/556] 21 p3500 N84-32181

A description of the ground segment of CNES, ESA, and TELESAT
[INPE-2984-NTE/211] 22 p3539 N84-32407

Comparison of analytical theories for studying the contraction of artificial satellite orbits
[INPE-2746-PRE/322] 22 p3540 N84-32409

Quantitative interpretation of aeromagnetic anomalies in the Sinclinal Gandarela
[INPE-3070-PRE/487] 22 p3614 N84-32898

DCP systems and characteristics
[INPE-2948-PRE/431] 22 p3614 N84-32899

Solar tides in the mesospheric sodium layer
[INPE-2942-TDL/151] 22 p3622 N84-32953

The severity of the Brazilian freeze of 1981 as monitored in real time by satellite
[INPE-2586-PRE/234] 22 p3625 N84-32967

Aspects of the Brazil current system according to SMS-2, NOAA-6, and Tiros-N satellites for 1979 to 1980
[INPE-2975-RPE/450] 22 p3627 N84-32982

Southern oscillation-El Nino events: Characteristics, evolution, and precipitation anomalies
[INPE-2976-PRE/438] 22 p3627 N84-32983

The compression of digital imagery by transformation
[INPE-2893-PRE/412] 22 p3639 N84-33073

Quantitative analysis of satellite infrared imagery using digital storage equipment
[INPE-2978-PRE/440] 22 p3639 N84-33074

The use of pipeline techniques in the architecture of digital processors employed in real time applications
[INPE-2992-TDL/153] 22 p3639 N84-33075

Controller technique of compensation figured in an active control scheme on the accumulated effects of deviation in the modeling
[INPE-2987-TDL/152] 22 p3643 N84-33100

Analytical soluation for computing first and second order ordinary differential equations using a method of series development
[INPE-2980-PRE/442] 22 p3645 N84-33110

Development of a spectroradiometer with a linear network of detectors from standard CCD
[INPE-3095-TDL/165] 22 p3657 N84-33180

Manufacture and characterization of Pb(1-x)Sn(x)Te photoconductors
[INPE-3045-TDL/157] 22 p3682 N84-33212

Quantitative treatment of fuzzy relations in the process of allocating resources to R and D projects
[INPE-2761-PRE/336] 22 p3688 N84-33251

Satellite telemetry
[INPE-2854-PRE/394] 23 p3699 N84-33444

Artificial satellites, orbital motion
[INPE-3163-RPE/458] 23 p3699 N84-33445

A simulation of a satellite power supply system
[INPE-3140-TDL/166] 23 p3699 N84-33446

Improvements in the process of dehydrating hydrazine by sodium hydroxide
[INPE-3198-PRE/561] 23 p3712 N84-33531

Determination of microwave attenuation due to the influence of atmospheric gases using the radiometric technique
[INPE-2850-PRE/391] 23 p3730 N84-33637

FM synthesizer-modulator with 1200 channels for SCPC transmission of voice signals by satellite
[INPE-2815-PRE/371] 23 p3730 N84-33638

Decommutation system
[INPE-3148-NTE/220] 23 p3730 N84-33639

Electromagnetic wave propagation in magnetoionic media
[INPE-3189-PRE/553] 23 p3730 N84-33640

Analysis of microstrip line tolerance using the Monte-Carlo method
[INPE-2814-PRE/370] 23 p3740 N84-33705

Microwave bandstop filters as dielectric resonators
[INPE-3055-PRE/475] 23 p3740 N84-33706

A microwave oscillator controlled by pressure and stabilized by a 1250 MHz cavity resonator
[INPE-3173-PRE/543] 23 p3741 N84-33712

The theory of free electron lasers
[INPE-3158-TDL/170] 23 p3753 N84-33790

On the use of meteorologic satellites in hydrology
[INPE-2879-PRE/404] 23 p3763 N84-33851

Quality measures for estimating the proportions of different classes within a single image resolution element (Pixel)
[INPE-2791-PRE/354] 23 p3763 N84-33852

Mapping project on land use changes in the carboniferous region of Santa Catarina
[NASA-CR-173946] 23 p3763 N84-33853

Irrigated lands: Monitoring by remote sensing
[NASA-CR-173945] 23 p3763 N84-33854

Forestry inventory based on multistage sampling with probability proportional to size
[INPE-2869-RPE/441] 23 p3763 N84-33855

A comparative study of different products of sensor systems applied in a lithologic-structural analysis of the Quadrilatero Ferrifero area, Minas Gerais
[INPE-3210-TDL/174] 23 p3764 N84-33856

Chemical analysis of ions in rain water in natural regions: Correlations with aerosols in the atmosphere
[INPE-2858-PRE/395] 23 p3792 N84-34052

Preliminary chemical analysis of rain water in Cubatao: Ambient effects
[INPE-2857-PRE/396] 23 p3792 N84-34053

Barreira do Inferno: Five years of ozone research
[INPE-2974-PRE/437] 23 p3796 N84-34073

Development of an automatic system for the treatment of magnetotelluric data
[INPE-3165-TDL/171] 23 p3797 N84-34075

Introduction to atmospheric geophysics
[INPE-3169-PRE/539] 23 p3797 N84-34079

The variation of range type spread F occurrence with a solar cycle at Fortaleza and Cachoeira Paulista
[INPE-3209-PRE/566] 23 p3797 N84-34080

Temporal and latitudinal distribution of ionosphere irregularity in Brazil, data analysis of scintillations in very high frequencies and ionograms
[INPE-3179-TDL/172] 23 p3798 N84-34081

Atmospheric Science Workshop on the Meteorology of the Antarctic Region at INPE
[INPE-3202-RPE/460] 23 p3800 N84-34093

Automatic drawing of synoptic charts
[INPE-3146-RPE/456] 23 p3800 N84-34094

Synoptic meteorology in Antarctica
[INPE-3201-NTE/222] 23 p3800 N84-34095

A scientific visit to the Institute of Polar Study of Japan
[INPE-3161-NTE/221] 23 p3801 N84-34097

A first attempt to identify areas of high probability for the occurrence of surface skipjack schools (Katsuwonus pelamis), from an analysis of oceanographic data for the south-southeast region of Brazil
[INPE-2972-RPE/449] 23 p3803 N84-34112

Simple microprogrammed controllers: An alternate approach
[INPE-3069-PRE/486] 23 p3812 N84-34171

The development of LANAC/II language for concurrent programming
[INPE-2781-PRE/347] 23 p3813 N84-34180

Flexible disk data storage unit
[INPE-2962-RPE/451] 23 p3814 N84-34181
Introduction to PASCAL language
[INPE-2888-PRE/408] 23 p3814 N84-34182
PASCAL-MP: A language for the algebraic and numerical manipulation of polynomials
[INPE-3057-PRE/477] 23 p3814 N84-34183
PROCAOC: A program for computation, analysis and optimization of circuits
[INPE-3135-PRE/526] 23 p3814 N84-34184
Project active and passive microwave devices with auxiliary computer
[INPE-3152-TDL/169] 23 p3814 N84-34185
Worst case performance of some heuristics for lot size problems
[INPE-3134-PRE/525] 23 p3817 N84-34205
Equivalence between maximization problems subjected to inequality constraints
[INPE-3166-PRE/536] 23 p3818 N84-34206
Research salaries
[INPE-2971-NTE/209] 23 p3832 N84-34307
Difficulties of scientific and technological planning
[INPE-2786-PRE/352] 23 p3832 N84-34308
A heuristic method for the problem of the distribution of perishable cargos
[INPE-3133-PRE/524] 23 p3832 N84-34309
A problem of determining the optimal policy for maintenance systems with reserve machines and a variable number of servers
[INPE-3197-TDL/173] 23 p3832 N84-34310
Objectives: Activities and needs of the digital simulation laboratory, attitude and orbit control systems, and the thermal control laboratory of the space mechanics and control department
[INPE-3174-RPE/459] 23 p3833 N84-34311
The problem of determining the optimum policy for maintaining systems with spare machines and a number of variable servers
[INPE-3132-PRE/523] 23 p3833 N84-34312
An optimum policy for a system of maintenance with control by a repair time distribution
[INPE-3131-PRE/522] 23 p3833 N84-34313
Hierarchical planning systems applied to production: A study
[INPE-3147-PRE/531] 23 p3833 N84-34314
Catalog of existing published periodicals of INPE, Volume 7
[INPE-2886-NTE/206] 23 p3834 N84-34320
A national program for data collection platforms: Information techniques for users
[INPE-3137-NTE/219] 24 p3858 N84-34456
Stochastic control of pitch motion of satellites using stabilizing flaps
[INPE-3235-PRE/584] 24 p3859 N84-34458
A fault-tolerant multiprocessing unit for on-board satellite supervision and control
[INPE-3244-PRE/590] 24 p3866 N84-34500
Vertical mode decomposition and model resolution
[INPE-3230-PRE/580] 24 p3918 N84-34805
Large scale tropical heat sources and global atmospheric energy propagation associated with droughts in Northeast Brazil
[INPE-3227-PRE/578] 24 p3918 N84-34806
Transient convection over the Amazon/Bolivia region and the dynamics of drought over northeast Brazil
[INPE-3226-PRE/577] 24 p3922 N84-34823
A synoptic study of the influence of extra-tropical latitude systems on the climatic variability in northeast Brazil
[INPE-3225-PRE/576] 24 p3922 N84-34824
A study of the influence of extra-tropical latitude systems on the climatic variability in Northeast Brazil
[INPE-3264-PRE/595] 24 p3922 N84-34825
Are droughts predictable?
[INPE-3274-PRE/598] 24 p3923 N84-34826
Contouring program for generation of sea surface temperature maps
[INPE-3260-RPE/464] 24 p3935 N84-34906
On parameter identification and state estimation for distributed parameter systems
[INPE-3236-PRE/585] 24 p3949 N84-35004
A few necessary considerations for the use of the finite element methods by non-specialists
[INPE-3238-PRE/586] 24 p3949 N84-35005
Representation of the Fokker-Plank collision term for Coulomb interaction as series of Legendre polynomials
[INPE-3232-PRE/582] 24 p3949 N84-35006
A note on the eigenvalues of a layered system
[INPE-3263-PRE/594] 24 p3950 N84-35007
Nonlinear effects in electron cyclotron resonance heating of plasmas
[INPE-3233-PRE/583] 24 p3964 N84-35103
Impurity cluster states in disordered 2-dimensional systems: A self-consistent Hartree-Fock-Roothaan model
[INPE-3223-PRE/574] 24 p3966 N84-35115
The 22 GHz continuum and spectral index maps of the galactic center region
[INPE-3275-PRE/599] 24 p3987 N84-35239
Long time behaviour of the interplanetary magnetic field-sectorial structure
[INPE-3222-PRE/573] 24 p3990 N84-35245
Meteor showers effects in the low terrestrial ionosphere detected at VLF ionosonde and long distance propagation paths
[INPE-3242-PRE/588] 24 p3990 N84-35246
Nonlinear temporal modulation of pulsar radioemission
[INPE-3272-PRE/597] 24 p3995 N84-35282

INSTITUTO DE PESQUISAS ESPACIAIS, SAO PAULO (BRAZIL).
Algorithm for real time control of non linear systems with application to the control satelite alignment systems
[INPE-2755-PRE/331] 09 p1265 N84-18263
Simplified analysis of the problem of retrieval for a stabilized artificial satellite by a gravity gradient
[INPE-2756-PRE/332] 09 p1270 N84-18295
Satellite attitude stability provided by a rotor subjected to difficult operating conditions
[INPE-2747-PRE/323] 10 p1436 N84-19384
INTAC: Digital and analog circuit test stations
[INPE-2741-PRE/320] 11 p1656 N84-20803
Effect of the angle of observation and of surface roughness in the spectral behavior of soils under varied moisture conditions
[INPE-2777-RPE/436] 11 p1671 N84-20904
Specifications for a low capacity SCPC FM Earth station
[INPE-2944-NTE/208] 17 p2652 N84-26959
Observations of radiation exchange above and below Amazonian forest
[INPE-3194-PRE/558] 21 p3447 N84-31870

INSTITUTO GEOFISICO DEL PERU, LIMA.
Equatorial MST radars: Further consideration
17 p2683 N84-27083
The Arecibo Observatory as an MST radar
17 p2691 N84-27138
Decoders for MST radars 17 p2692 N84-27146
Spectral moment estimation in MST radars
17 p2696 N84-27173

INSTITUTO NACIONAL DE TECNICA AEROESPACIAL, ESTEBAN TERRADAS, TORREJON DE ARDOZ (SPAIN).
Ice formation in aircraft 06 p0783 N84-15130
Status of fiber reinforced materials
06 p0799 N84-15209
The influence of the environment on the mechanical characteristics of composite materials: Design considerations
[INTA-INFORME-I-1/221/720/83047]
06 p0811 N84-15281
Improving a chemical method to determine the epoxy equivalent in epoxy resins
[REPT-I-4/241/720/83.063] 10 p1469 N84-19593
Development situation for guiding systems
18 p2797 N84-27747
The low temperature behavior of lubricant greases
18 p2819 N84-27902
Application of liquid column chromotography to the study of lubricant oils and ester separation
18 p2819 N84-27903
Tensile properties of plastic propellant ICP 200-P129 with CIS 1.4 polyisoprene
[INTA-NT-N-223/410/83.038] 18 p2821 N84-27913
Basic mathematical formulation of contaminant dispersions 18 p2878 N84-28274
Ultraviolet study of the stellar population of the giant extragalactic HII region NGC 604
24 p3971 N84-35145

INSTITUTO NACIONAL DE TECNICA AEROESPACIAL, MADRID (SPAIN).
Study of aerospace materials, coatings, adhesions and processes. Aircraft icing processes
[AD-A139743] 15 p2257 N84-24557
Development of capsular adhesive systems and evaluation of their stability
[AD-A140083] 15 p2302 N84-24816
Coating of self-catalytic nickel on aluminum and aluminum alloys
[AD-A140697] 17 p2623 N84-26791
Development of simulators for guiding systems
18 p2797 N84-27750
Application of the liquid column chromatography to the study of lubricating oils and esters separation
18 p2817 N84-27889
Defects and materials characterization by analysis of ultrasonic signals
[AD-A141180] 18 p2851 N84-28101
Basic mathematical formulation of the contaminant dispersion processes 18 p2877 N84-28268

INSTITUTO QUIMICO DE SARRIA, BARCELONA (SPAIN).
Construction of engineering drawings using a personal computer 16 p2544 N84-26329
Analysis of metals in atmospheric particules for spectrophotometry of atomic absorption
18 p2877 N84-28269
Utilization of AC and DC converters in the design and use of a system of acquisition retrieval of analogic data
18 p2944 N84-28669

INSTITUTO SUPERIOR TECNICO, LISBON (PORTUGAL).
Droplet size distribution and liquid volume concentration in a water spray: Predictions and measurements
15 p2291 N84-24748

INSTITUTO TECNOLOGICO DE AERONAUTICA, SAO JOSE DOS CAMPOS (BRAZIL).
Comment on coupled perturbations on orbits of artificial earth satellites 19 p3119 N84-29824

INSTITUUT TNO VOOR BOUWMATERIALEN EN BOUWCONSTRUCTIES, DELFT (NETHERLANDS).
Heron, volume 28, no. 1, 1983. Dynamic elasto-plastic model for reinforced concrete members
[PB84-109057] 08 p1172 N84-17635

INSTITUUT TNO VOOR WERKTUIGKUNDIGE CONSTRUCTIES, DELFT (NETHERLANDS).
Optimization of constructions by means of the finite element method
[IWECO-5071303-82-2] 02 p0283 N84-11856
Modeling by means of networks
[IWECO-5177401-83-1] 12 p1804 N84-21761
Optimization of a stiffened plate
[IWECO-5071303-82-1] 12 p1827 N84-21911
Investigation of the strength of a flycatcher wheel suspension
[IWECO-5075410-83-01] 12 p1827 N84-21912
Handbook on shock reducing devices
[IWECO-5072311-82-1] 18 p2854 N84-28120
Verification of the plate element with bending (element 11) of the program OPTIMA
[IWECO-5074403-83-2] 18 p2854 N84-28121
Coupling of the program OPTIMA to the pre and post processor SUPERTAB
[IWECO-5074403-100-83-1] 18 p2922 N84-28532

INSTITUUT TNO VOOR WISKUNDE, INFORMATIEVERWERKING EN STATISTIEK, THE HAGUE (NETHERLANDS).
DISCRIM: A modification of TWINSPAN (Hill, 1979) to construct simple discriminant functions and to classify attributes, given a hierarchial classification of samples
17 p2756 N84-27493
Differential weights for samples and attributes in the ordination program DECORANA and the classification program TWINSPAN (Hill, 1979)
17 p2756 N84-27494

INSTRUCTIONAL SCIENCE AND DEVELOPMENT, INC., SAN DIEGO, CALIF.
Automated Instructional Media Selection (AIMS)
[AD-A135749] 10 p1552 N84-20168

INSTRUMENTS SERVICE AERODYNAMIQUE, LONGJUMEAU (FRANCE).
Ruled and holographic gratings experiment (A0138-5)
15 p2278 N84-24682

INTEGRATED SYSTEMS, INC., PALO ALTO, CALIF.
A systolic signal processor for recursive filtering
09 p1402 N84-19156
Real-time flutter analysis
[NASA-CR-170412] 11 p1605 N84-20512
Modular computing networks: A new methodology for analysis and design of parallel Algorithms/Architectures
[AD-A139600] 14 p2209 N84-24261
Vibration Control Of Space Structures VCOSS A: High and low-authority hardware implementations
[AD-A139931] 15 p2281 N84-24702
Canonical realizations of completely regular modular computing networks
[AD-A142010] 20 p3277 N84-30802
Comparison of frequency-domain and time-domain rotorcraft vibration control methods
[NASA-CR-166570] 24 p3852 N84-34431

INTELLIGENT SOFTWARE SYSTEMS, INC., AMHERST, MASS.
A system for embedding data displays in graphical contexts
[AD-A143630] 23 p3815 N84-34191

INTELLIMAC, INC., ROCKVILLE, MD.
Ada (trademark) for business and other non-DOD applications
[AD-P003425] 20 p3271 N84-30757

INTERA ENVIRONMENTAL CONSULTANTS LTD., HOUSTON, TEX.
Adjoint sensitivity theory for steady-state ground-water flow
[DE84-003335] 09 p1337 N84-18732

INTERA ENVIRONMENTAL CONSULTANTS LTD., OTTAWA (ONTARIO).
Optimizing image quality for SAR
23 p3777 N84-33950
INTERACTIVE SYSTEMS CORP., LITTLETON, COLO.
Hexagonal data base study
[AD-A135532] 08 p1212 N84-17907
INTERGOVERNMENTAL OCEANOGRAPHIC COMMISSION, PARIS (FRANCE).
Integrated Global Ocean Services System (IGOSS): Guide to the IGOSS data processing and services system
[WMO-623] 13 p2019 N84-23089
INTERIOR DEPT., WASHINGTON, D.C.
Alaska's mineral resources
[DE84-006918] 14 p2170 N84-23998
INTERMETRICS, INC., CAMBRIDGE, MASS.
Computer program development specification for Ada integrated environment: KAPSE (Kernel Ada Programming Support Environment)/Database, type b5, B5-AIE(1).KAPSE(1)
[AD-A134092] 05 p0726 N84-14766
Computer program development specification for Ada integrated environment: Virtual memory methodology, B5-AIE(1).VMM(2)
[AD-A134091] 05 p0726 N84-14767
System specification for Ada integrated environment type A AIE(1)
[AD-A134080] 05 p0726 N84-14769
Computer program development specification for Ada integrated environment: MAPSE debugging facilities, B5-AIE(1).DBUG(1)
[AD-A134070] 05 p0727 N84-14771
Computer program development specification for Ada integrated environment. MAPSE command processor B5-AIE(1).MCP (1)
[AD-A134033] 05 p0727 N84-14772
Computer program development specification for Ada integrated environment. Ada compiler phases B5-AIE (1). COMP (1)
[AD-A134032] 05 p0727 N84-14773
Computer program development specification for Ada integrated environment: Program integration facilities, type b5, B5-AIE (1). PIF (1)
[AD-A134003] 05 p0727 N84-14774
Learning the Ada (trademark) integrated environment
[AD-P003417] 20 p3270 N84-30749
INTERMETRICS, INC., DAYTON, OHIO.
Architectural and control considerations for a high speed signal processor implemented with an Ada (Trademark) executive
[AD-P003594] 21 p3341 N84-31199
INTERMETRICS, INC., HUNTINGTON BEACH, CALIF.
The Multiple System OFP Support (MSOS) system, a Pre-PMRT capability for evaluating tactical software
[AD-P003524] 21 p3330 N84-31128
INTERMETRICS, INC., HUNTSVILLE, ALA.
IMCS reflight certification requirements and design specifications
[NASA-CR-170968] 08 p1102 N84-17167
SEPAC: Spacelab Mission 1 report
[NASA-CR-170980] 08 p1107 N84-17196
PDSS/IMC qualification test user's manual
[NASA-CR-171025] 15 p2389 N84-25334
PDSS/IMC qualification test software acceptance procedures
[NASA-CR-171026] 15 p2389 N84-25335
Reflight certification software design specifications
[NASA-CR-171138] 21 p3465 N84-31966
INTERMOUNTAIN FOREST AND RANGE EXPERIMENT STATION, OGDEN, UTAH.
Evaluating proposed improvements of public rangelands
[PB83-251124] 04 p0556 N84-13669
Weather summaries for Coram Experimental Forest, Northwestern Montana: An international biosphere reserve
[PB84-182443] 20 p3248 N84-30615
Computer programs for summarizing climatic data stored in the National Fire Weather Data Library
[PB84-197011] 21 p3449 N84-31886
INTERNAL REVENUE SERVICE, ARLINGTON, VA.
Computer-based training starter kit
[PB83-248815] 04 p0574 N84-13780
INTERNATIONAL BUSINESS MACHINES CORP., MILWAUKEE, WIS.
Quenchings and outbursts of extragalactic radio sources: Nine years of 3.3-mm measurements and comparisons with centimeter-wave variations
[AD-A138233] 13 p2092 N84-23550
INTERNATIONAL BUSINESS MACHINES CORP., PALO ALTO, CALIF.
LANDSAT-4 radiometric and geometric correction and image enhancement results 20 p3206 N84-30370
INTERNATIONAL BUSINESS MACHINES CORP., POUGHKEEPSIE, N.Y.
The implementation and use of multivalued logic in a VLSI environment
[AD-P002344] 14 p2191 N84-24135
INTERNATIONAL BUSINESS MACHINES CORP., RESEARCH TRIANGLE PARK, N.C.
Material requirements for multimedia communications cable 11 p1724 N84-21248
Design of a twisted pair cable for a token passing local area network 11 p1724 N84-21249
Measurement of the characteristic impedance of balanced twisted pairs using scattering parameters
11 p1725 N84-21250
INTERNATIONAL BUSINESS MACHINES CORP., SAN JOSE, CALIF.
Optical probing of photoacoustic propagation for noncontact measurement of flows, temperatures and chemical compositions
[AD-A134129] 05 p0684 N84-14496
Profile of laser-produced acoustic pulse in a liquid
[AD-A134138] 05 p0686 N84-14510
Theory of electronic, atomic and molecular collisions
[AD-A134025] 05 p0743 N84-14883
Photothermal spectroscopy using a pyroelectric thin film detector
[AD-A134291] 07 p0969 N84-16281
The development of a new class of holographic materials
[AD-A140298] 16 p2496 N84-26017
INTERNATIONAL BUSINESS MACHINES S. A. E., MADRID (SPAIN).
Planning an experiment for digital image processing
16 p2490 N84-25976
Post-processing: Extracting and displaying useful information from digital images
16 p2491 N84-25977
INTERNATIONAL CENTRE FOR DIFFRACTION DATA, SWARTHMORE, PA.
Standard X-ray diffraction power patterns: Section 20 - data for 71 substances
[PB84-155191] 14 p2244 N84-24475
INTERNATIONAL CENTRE FOR THEORETICAL PHYSICS, TRIESTE (ITALY).
Ground-state properties and optical excitations of a solvated electron in molten alkali halides
[DE84-701191] 24 p3881 N84-34587
Electrical conductivity in random alloys
[DE84-701207] 24 p3884 N84-34611
Distortions in frequency spectra of signals associated with sampling-pulse shapes
[DE84-701747] 24 p3896 N84-34672
Steady state creep in quartz
[DE84-701196] 24 p3912 N84-34776
Selection rules for the spontaneous phase transitions in magnetoelastic metamagnets
[DE84-701200] 24 p3960 N84-35070
Elastic scattering of positrons with hydrogen and lithium atoms at intermediate energies
[DE84-701187] 24 p3962 N84-35092
Optical properties of amorphous silicon: Some problem areas
[DE84-701201] 24 p3964 N84-35102
Elementary excitations and quasi-two-dimensional behaviour in a GaAs field effect transistor
[DE84-701190] 24 p3967 N84-35122
Impurity states in the presence of an interface
[DE84-701192] 24 p3967 N84-35123
INTERNATIONAL COAL REFINING CO., ALLENTOWN, PA.
Effect of feed gas trace components on the SRC-1 hydrogen purification unit
[DE84-012975] 22 p3562 N84-32556
INTERNATIONAL COUNCIL OF SCIENTIFIC UNIONS, ROME (ITALY).
Report of the Fourth Session of the Joint Scientific Committee 02 p0256 N84-11679
INTERNATIONAL COUNCIL OF SCIENTIFIC UNIONS, URBANA, ILL.
Middle Atmosphere Program. Handbook for MAP, volume 9
[NASA-CR-173439] 17 p2662 N84-27076
INTERNATIONAL DATA CORP., MCLEAN, VA.
Computer science and technology: Future information processing technology, 1983
[PB83-257618] 06 p0896 N84-15820
INTERNATIONAL GEOPHYSICAL YEAR WORLD DATA CENTER A, BOULDER, COLO.
The changing world of geomagnetism: A brief history relating to magnetic observatories
09 p1343 N84-18776
INTERNATIONAL INST. FOR AERIAL SURVEY AND EARTH SCIENCES, ENSCHEDE (NETHERLANDS).
Major water conservation and reclamation projects in the Jianghan Plain and surroundings, Hubei Province, China 03 p0397 N84-12593
Several aspects of the sequential processing of photogrammetric bundle blocks
16 p2505 N84-26077
INTERNATIONAL INST. FOR APPLIED SYSTEMS ANALYSIS, LAXENBURG (AUSTRIA).
Liquefied energy gas terminal risk: A comparison and evaluation
[IIASA-RR-83-34] 15 p2360 N84-25161
Environmental modeling under uncertainty: Monte Carlo simulation
[IIASA-RR-83-28] 15 p2365 N84-25192
Decision support for innovation management: Application to the lighting industry
[IIASA-RR-83-29] 15 p2416 N84-25503
Assessing the impact of climatic change in cold regions
[IIASA-SR-84-1] 19 p3057 N84-29394
Activities in applied systems analysis
21 p3475 N84-32026
INTERNATIONAL LASER SYSTEMS, INC., ORLANDO, FLA.
Laser Resonator
[NASA-CASE-GSC-12565-1] 05 p0686 N84-14509
INTERNATIONAL NICKEL CO., INC., SUFFERN, N. Y.
Oxidation of Inconel alloy MA754 at low oxidation potential
[DE83-017191] 04 p0501 N84-13288
INTERNATIONAL SCHOOL FOR ADVANCED STUDIES, TRIESTE (ITALY).
Ground-state properties and optical excitations of a solvated electron in molten alkali halides
[DE84-701191] 24 p3881 N84-34587
Theory of the interface between a classical plasma and a hard wall
[DE84-701221] 24 p3966 N84-35111
INTERNATIONAL TELECOMMUNICATIONS SATELLITE ORGANIZATION, WASHINGTON, D. C.
Nonstationary resonance oscillations
10 p1506 N84-19848
Ice depolarization on low-angle 2 GHz satellite downlinks 15 p2323 N84-24946
Comparative performance assessment of INTELSAT 5 nickel hydrogen and nickel cadmium batteries
23 p3740 N84-33704
INTERNATIONAL TRADE ADMINISTRATION, WASHINGTON, D.C.
Competitive assessment of the U.S. Civil aircraft industry
[PB84-154913] 15 p2419 N84-25525
INTERSCIENCE, INC., SCHENECTADY, N.Y.
World survey of magnetic mirror confinement research facilities
[DE84-009715] 19 p3108 N84-29749
IONICS, INC., WATERTOWN, MASS.
Anion permselective membrane
[NASA-CR-174725] 19 p3050 N84-29358
Reference plant for high temperature electrodialysis desalting of seawater
[PB84-195841] 22 p3549 N84-32471
IONOSPHERIC PREDICTION SERVICE, DARLINGHURST (AUSTRALIA).
Handbook - H8: Description of services
15 p2367 N84-25202
IOWA DEPT. OF WATER, AIR AND WASTE MANAGEMENT, DES MOINES.
Air quality report, 1982
[PB84-166750] 17 p2725 N84-27346
IOWA STATE UNIV. OF SCIENCE AND TECHNOLOGY, AMES.
Aerodynamics of advanced axial-flow turbomachinery
[AD-A131360] 01 p0012 N84-10073
A generalized solution technique for the parabolized Navier-Stokes equations 02 p0173 N84-11137
Linear and nonlinear models of Mira variable stars
02 p0304 N84-11996
Load deflection characteristics of inflated structures
[NASA-CR-174585] 03 p0311 N84-12028
High-sensitivity laser spectroscopy with atoms from a cooled helium jet
[DE84-000614] 04 p0540 N84-13554
An evaluation of the broadband direction finding capabilities of array signal processing techniques
05 p0665 N84-14368
Development of the linear displacement discontinuity method 05 p0691 N84-14536
A comparison study of the energetics of standing and transient eddies between two general circulation models: The GLAS Climate Model and the NCAR Community Climate Model 06 p0680 N84-15726
Research in space physics at the University of Iowa, 1982
[NASA-CR-175411] 11 p1754 N84-21447
The government relationship to industry in technology transfer and development
[AD-P002772] 13 p2053 N84-23319

Analysis of the Von Karman equations by group methods
[AD-P002948] 14 p2198 N84-24188
Use of transformed LANDSAT data in regression estimation of crop acreages 17 p2708 N84-27246
Effect of radial inflow on vortex intensification and its application to wind vortex generators 17 p2724 N84-27335
The effect of growth rate on interface morphology 18 p2936 N84-28624
Stator blade row geometry modification influence on two-stage, axial-flow compressor aerodynamic performance
[AD-A141793] 19 p2966 N84-28797
Aerodynamic design and performance of a two-stage, axial-flow compressor (Baseline)
[AD-A141796] 19 p2966 N84-28798
Application of the implicit MacCormack scheme to the parabolized Navier-Stokes equations
[NASA-CR-166579] 19 p3020 N84-29148

IOWA UNIV., IOWA CITY.

Stabilization of the solvent Methyl-n-Amyl Ketone (MAK) in vinyl paints
[AD-A131059] 01 p0050 N84-10323
High-altitude observations of an intense inverted-V event
[NASA-CR-174468] 01 p0104 N84-10678
Currents in the Earth's magnetotail
[NASA-CR-174467] 01 p0104 N84-10679
A measure of the conformity of a parameter set to a trend: The partially ordered case
[AD-A131214] 02 p0285 N84-11866
A model for chorus associated electrostatic bursts
[NASA-CR-174489] 03 p0432 N84-12832
Jupiter Data Analysis Program: Analysis of Voyager wideband plasma wave observations
[NASA-CR-174575] 03 p0465 N84-13058
Observations of nonlinear behavior in a low-pressure discharge column
[AD-A132321] 04 p0605 N84-13996
Whistler mode turbulence generated by electron beams in Earth's bow shock
[NASA-CR-173143] 07 p1034 N84-16707
Segmented testing
[NASA-CR-173188] 07 p1058 N84-16855
Error latency estimation using functional fault modeling
[NASA-CR-173207] 07 p1058 N84-16856
Interpretation of STS-3/plasma diagnostics package results in terms of large space structure plasma interactions
[NASA-CR-173266] 07 p1075 N84-16991
Hysteresis in a low-pressure argon discharge, revision
[AD-A134387] 07 p1076 N84-16995
Interaction of the space shuttle orbiter with the ionospheric plasma 08 p1117 N84-17265
Finite analytic numerical solutions of laminar and turbulent convective heat transfer for pipe flow past a cavity 08 p1154 N84-17515
Shape optimal design and free boundary value problems 08 p1154 N84-17516
Three-dimensional turbulent boundary layer on a body of revolution at incidence
[AD-A135454] 08 p1158 N84-17539
Turbulence measurements in plane jets and plumes in crossflow
[PB84-105303] 08 p1160 N84-17554
A demand-driven, coroutine-based implementation of a nonprocedural language 08 p1211 N84-17895
Temporal finite elements based on a minimum principle for initial value problems 08 p1216 N84-17935
Turbulence measurements in plane jets and plumes in crossflow 10 p1496 N84-19783
The plasma sheet boundary layer
[AD-A137399] 10 p1537 N84-20069
Unsteady turbulent boundary layers
[AD-A137853] 11 p1652 N84-20787
Configuration space Faddeev calculations
[DE84-006492] 11 p1730 N84-21289
Study of large-scale mixing in developing wakes behind streamlined bodies
[NASA-CR-173478] 12 p1766 N84-21517
Study of unsteady turbulent boundary layers
[AD-A138156] 12 p1816 N84-21837
Use of MAGSAT anomaly data for crustal structure and mineral resources in the US midcontinent
[E84-10112] 13 p2005 N84-23005
A summary of whistlers observed by Voyager 1 at Jupiter
[NASA-CR-173415] 13 p2091 N84-23545
Vehicle dynamic analysis with flexible components
[AD-P002939] 14 p2197 N84-24179
STS-3/OSS-1 Plasma Diagnostics Package (PDP) measurements of Orbiter-generated V x B potentials and electrostatic noise
[AD-P002105] 16 p2522 N84-26191
A laboratory investigation of the high-frequency Farley-Buneman instability
[NASA-CR-173435] 16 p2525 N84-26215
Production of plasma with variable, radial electric fields
[NASA-CR-173434] 16 p2558 N84-26413
Computer-aided optimal design of constrained dynamic systems 17 p2675 N84-27040
Plastic behavior of 304 stainless steel under plastic-strain controlled loading conditions 17 p2677 N84-27051
Whistler mode turbulence at Earth's bow shock: Generation via electron beams and ray path integrated amplification 17 p2726 N84-27349
Low frequency electric and magnetic noise along the auroral field lines
[NASA-CR-173641] 17 p2727 N84-27358
Distributions of aurora and ionospheric currents observed simultaneously on a global scale
[AD-A140615] 17 p2727 N84-27360
Generation of broadband electrostatic noise by ion beam instabilities in the magnetotail
[NASA-CR-173643] 17 p2728 N84-27362
Delayed feedback optimal controller 17 p2756 N84-27498
Testament of general boundary conditions and point-wise state variable constraints in optimum design for static and dynamic response
[PB84-192749] 20 p3204 N84-30356
Soliton collapse during ionospheric heating
[DE84-009994] 20 p3241 N84-30576
Theoretical aspects of mirror fusion
[DE84-009139] 20 p3305 N84-30988
Geometrical relationships of Pioneer 11 to Uranus and Voyager 2 in 1985-86
[NASA-CR-173675] 22 p3539 N84-32406
Measurement of skin friction in unsteady boundary layers using a flush-mounted hot-film gage
[PB84-197995] 22 p3596 N84-32773
Aggradation and degradation at alluvial-channel beds
[PB84-201557] 22 p3615 N84-32905
Test procedures and design methods for reliable large scale integrated circuits and systems
[AD-A143324] 22 p3638 N84-33061
Path integrated growth of auroral kilometric radiation
[NASA-CR-173995] 24 p3919 N84-34812

IOWA UNIV., MAXWELL.

Modification of the eta-invariant code for application of a modular grid network
[AD-A135817] 16 p2547 N84-26347

IRT CORP., SAN DIEGO, CALIF.

CW (Continuous Wave) antenna design and testing
[AD-A131291] 02 p0210 N84-11369
Proton electrostatic analyzer
[AD-A133588] 06 p0848 N84-15528
Experimental studies of secondary ion emission from well-characterized surfaces
[AD-A133186] 06 p0914 N84-15943
Space electron-induced discharge coupling into satellite electronics
[AD-P002114] 16 p2523 N84-26200

ISCAR LTD., NAHARIYA (ISRAEL).

Thermal properties of coating materials and their effect on the efficiency of coated cutting tools 09 p1292 N84-18440

ISRAEL INST. OF METALS, HAIFA.

Laser beam technology promoting high speed and selective plating processes
[AD-A143715] 23 p3754 N84-33797

ISRO SATELLITE CENTRE, PEENYA, BANGALORE (INDIA).

Management and performance of APPLE battery in high temperature environment 23 p3738 N84-33693

ISTITUTO DI FISICA TEORICA DELL UNIV., TRIESTE (ITALY).

Ground-state properties and optical excitations of a solvated electron in molten alkali halides
[DE84-701191] 24 p3881 N84-34587

ISTITUTO DI RICERCA E TECNOLOGIA PER LO STUDIO DEL PLASMA NELLO SPAZIO, FRASCATI (ITALY).

Radio scintillations at large elongation angles: Contributions of waves versus discontinuities
[IFSI-82-4] 03 p0362 N84-12358
Analysis of some filtering and data analysis methods for gravitational wave antennas with resonant transducers
[IFSI-82-11] 03 p0362 N84-12359
Data analysis for gravitational wave antenna with resonant transducers
[IFSI-82-12] 03 p0363 N84-12360
Guidance of electromagnetic waves in the ionosphere and magnetosphere
[IFSI-82-15] 03 p0363 N84-12361
Correlation between two spacecraft in the Doppler detection of a gravitational background radiation
[IFSI-83-7] 03 p0363 N84-12362
Orbiting wire as a dynamo: Auxiliary power possibilities for space platforms
[IFSI-83-3] 03 p0405 N84-12653
A comparison between GEOS 1 magnetic field measurements and some models of the geomagnetic field
[IFSI-82-5] 03 p0409 N84-12675
Observation of multiple ion beams in the magnetotail low latitude boundary layer. Evidence for a double H+ population
[IFSI-82-10] 03 p0409 N84-12676
Dissipative instabilities of magnetic neutral layers with velocity shear
[IFSI-82-13] 03 p0451 N84-12965
The structure of the plasma sheet-lobe boundary in the Earth's magnetotail
[NASA-TM-85434] 03 p0463 N84-13049
Interplanetary Alfvenic fluctuations: A statistical study of the directional variations of the magnetic field
[IFSI-82-14] 03 p0463 N84-13050
Comment on the observed plasma densities in Jupiter's distant magnetotail (wake); a possible explanation
[IFSI-83-2] 03 p0465 N84-13062
Interplanetary perturbations associated with type 4 solar flares
[IFSI-82-6] 03 p0475 N84-13129
The behavior of the cosmic ray equatorial anisotropy inside fast solar wind streams ejected by coronal holes
[IFSI-82-16] 03 p0475 N84-13130
Study of a gravitational antenna coupled to a resonant capacitive transducer: Equivalent circuit and noise spectra
[IFSI-82-3] 05 p0677 N84-14450
Double parametric oscillator
[IFSI-83-1] 05 p0677 N84-14451
Low noise amplifier with a JFET inlet stage
[IFSI-83-8] 05 p0677 N84-14452
Control of the HP3325 frequency synthesizer by a PDP 11 computer for gravitational experiments
[IFSI-83-9] 05 p0683 N84-14492
Application of the maximum entropy method to the spectral analysis of geophysics data. Results of some preliminary tests on theoretical series
[IFSI-82-1] 05 p0705 N84-14626
The programs used to compare the predictions of some geomagnetic models with the measurements from the experiment S-331 onboard the GEOS-1 satellite
[IFSI-82-2] 05 p0705 N84-14627
Computer graphics hardware and software of the HP 1000F system
[IFSI-82-8] 05 p0720 N84-14720
Activities in interplanetary space physics
[IFSI-82-7] 05 p0761 N84-14993
Description of 1982 activities in interplanetary physics
[IFSI-83-5] 05 p0761 N84-14994
Measurement of atmospheric moisture and extinction coefficient in the near infrared at Cima Ekar
[IFSI-83-6] 05 p0782 N84-14999

ISTITUTO DI RICERCHE BREDA S.P.A., MILAN (ITALY).

Creep-low cycle fatigue interaction of 2 1/4 Cr 1 Mo steel at high temperature 16 p2501 N84-26051
Technological effects of pressure vessel manufacturing processes on steel properties
[EUR-7614] 17 p2622 N84-26780
Stress corrosion resistance of structural steels in high chloride environments
[EUR-7435] 17 p2622 N84-26781

ISTITUTO NAZIONALE DI FISICA NUCLEARE, FRASCATI (ITALY).

Multi-parametric data acquisition system with DC11-C interface towards PDP 11/34
[DE82-906300] 02 p0275 N84-11798

ISTITUTO NAZIONALE DI FISICA NUCLEARE, TRIESTE (ITALY).

Simplified analysis of a capacitive resonant transducer with a SQUID amplifier
[IFSI-83-4] 05 p0686 N84-14508

ISTITUTO SUPERIORE DELLE POSTE E DELLE TELECOMUNICAZIONI, ROME (ITALY).

Cordless telephone: A new degree of freedom for the telephone user 10 p1478 N84-19658

ISTITUTO SUPERIORE DI SANITA, ROME (ITALY).

Preliminary result of our new Nationwide Evaluation of X-ray Trends (NEXT) program for Italy
[ISS-L-84/3] 20 p3260 N84-30693

ITEK CORP., LEXINGTON, MASS.

Morphologic studies of the Moon and planets
[NASA-CR-173886] 22 p3678 N84-33319

ITT ADVANCED TECHNOLOGY CENTER, SHELTON, CONN.

Software psychology: The need for an interdisciplinary program
[PB84-176718] 17 p2755 N84-27486

ITT AEROSPACE/OPTICAL DIV., FORT WAYNE, IND.
Image dissector camera system study
[NASA-CR-171759] 11 p1656 N84-20806
Study in spurious sensitivity of electronics
[AD-A143947] 23 p3742 N84-33719
ITT DEFENSE COMMUNICATIONS DIV., NUTLEY, N.J.
Limited connected speech experiment
[AD-A131048] 01 p0066 N84-10433
ITT ELECTRO-OPTICAL PRODUCTS DIV., ROANOKE, VA.
Ultra low loss optical fiber cable assemblies, volume 2
[AD-A132008] 03 p0440 N84-12891
Ultra low loss optical fiber cable assemblies, volume 1
[AD-A132007] 03 p0440 N84-12892

J

JACKSON STATE UNIV., MISS.
A preliminary survey of plankton and periphyton in the Turn Barge Canal and basin area of Kennedy Space Center, Florida 06 p0926 N84-16027
JAPAN ATOMIC ENERGY RESEARCH INST., IBARAKI.
Numerical analyses for scrape-off plasmas in FER divertor chamber 11 p1734 N84-21313
JAPAN ATOMIC ENERGY RESEARCH INST., TOKAI.
Effects of pulsed and/or dual ion irradiation on microstructural evolution in a Ti and Si modified Austenitic alloy
[DE84-003411] 08 p1134 N84-17374
Atomic processes for plasma diagnostics in Tokamaks 11 p1734 N84-21311
JAPAN BROADCASTING CORP., TOKYO.
An experimental system of FM data-broadcasting
[NHK-SERIAL-293] 15 p2319 N84-24919
Development of automatic measuring system for image pickup tubes
[NHK-LN-295] 15 p2335 N84-25014
Measurements of rain attenuation at 12 GHz with the BSE
[NHK-LN-292] 15 p2370 N84-25218
The physical and psychological factors governing sound-image quality
[NHK-SERIAL-298] 15 p2403 N84-25424
A new objective method of evaluating image sharpness
[NHK-SERIAL-296] 15 p2407 N84-25449
A consideration on the capability of receiving character-information
[NHK-SERIAL-294] 15 p2417 N84-25511
Perceived C/U ratio measuring equipment for TV ghost images
[NHK-LABS-NOTE-300] 19 p3003 N84-29036
A method of measuring distortion noise in digital audio equipment
[NHK-LABS-NOTE-299] 20 p3177 N84-30174
Two-way unidirectional condenser microphone
[NHK-LABS-NOTE-297] 20 p3177 N84-30175
JAPAN SOCIETY FOR AERONAUTICAL AND SPACE SCIENCES, TOKYO.
Transactions of the Japan Society for Aeronautical and Space Sciences, vol. 26, no. 73, November 1983
[ISSN-0549-3811] 07 p0984 N84-16374
JAYCOR, ALEXANDRIA, VA.
Diode dynamics, beam generation and transport and plasma erosion opening switch development
[AD-A129821] 01 p0070 N84-10457
Polarization studies in electron cyclotron heating experiments on the Versator 2 Tokamak
[AD-A130808] 01 p0149 N84-10978
Alternate implosion models for the plane parallel diode
[AD-A131275] 02 p0295 N84-11937
Thermionic cathode, MITL (Magnetically Insulated Transmission Line) and auxiliary coils systems investigations for the modified betatron
[AD-A133757] 05 p0744 N84-14887
Elliptic solvers for NORDA ocean models and a quasi-geostrophic regional eddy-mean energetics package
[AD-A133754] 06 p0884 N84-15751
Results from a two-layer and a reduced gravity model of the Alboran Sea; and vertical shear from tops
[AD-A133753] 06 p0884 N84-15752
BERTHA: A versatile transmission line and circuit code
[DE84-002984] 07 p0998 N84-16474
Investigation of the thermal initiation of detonation in nitromethane
[AD-A136211] 09 p1316 N84-18598
The modified betatron accelerator experiment
[AD-A137447] 10 p1576 N84-20328
Transmission system development for electron cyclotron heating experiments of a Tokamak plasma
[AD-A140688] 17 p2766 N84-27566
Elliptic solvers for Mediterranean Sea ocean modeling
[AD-A142306] 19 p3062 N84-29429
Plasma switch development
[AD-A143233] 22 p3586 N84-32711
JAYCOR, DEL MAR, CALIF.
Recent results in the Los Alamos compact torus program
[DE83-014147] 03 p0446 N84-12930
JAYCOR, SAN DIEGO, CALIF.
The 2-step ECRH current-drive study
[DE83-012745] 01 p0150 N84-10983
Theoretical studies of fusion physics. Volume 1: Summary
[DE83-010378] 03 p0445 N84-12924
Theoretical studies of fusion physics. Volume 2: Appendices
[DE83-010371] 03 p0445 N84-12925
Latchup window tests
[AD-A138680] 13 p1986 N84-22894
Literature review of spacecraft charging
[AD-A140543] 16 p2458 N84-25761
Theoretical studies of Elmo Bumpy Torus (EBT)
[DE84-010814] 20 p3303 N84-30978
JAYCOR, SANTA MONICA, CALIF.
External wave-launcher study
[DE84-001124] 04 p0523 N84-13441
JEFFERSON MEDICAL COLL., PHILADELPHIA, PA.
Assessment of ultrasonic B-scan imaging for detection and quantification of atherosclerotic lesions in human carotid and illofemoral arteries and in arteries of animals
[PB83-261123] 05 p0714 N84-14678
JEPPSON (MORRIS R.), CARMEL, CALIF.
Microwave methods and apparatus for paving and paving maintenance
[DE84-016306] 06 p0822 N84-15359
JERSEY CITY STATE COLL., N. J.
Experiences in teaching Ada (trademark)
[AD-P003419] 20 p3270 N84-30751
JET PROPULSION LAB., CALIFORNIA INST. OF TECH., PASADENA.
Evaluation of LANDSAT-4 TM and MSS ground geometry performance without ground control
[E84-10022] 01 p0099 N84-10644
Thermal energy storage evaluation and life testing
[NASA-CR-174464] 01 p0102 N84-10660
JPL highlights, 1981
[NASA-CR-174535] 01 p0159 N84-11046
A new algorithm for constrained nonlinear least-squares problems, part 1
[NASA-CR-174480] 02 p0283 N84-11855
Optical fiber tactile sensor
[NASA-CASE-NPO-15375-1] 02 p0293 N84-11921
Photoelectrochemical electrodes
[NASA-CASE-NPO-15458-1] 03 p0348 N84-12262
Corrosion resistant coating
[NASA-CASE-NPO-15928-1] 03 p0352 N84-12289
Laser activated MTOS microwave device
[NASA-CASE-NPO-16112-1] 03 p0378 N84-12463
Autoregressive models for use in scene segmentation 03 p0393 N84-12561
SAR speckle noise reduction using Wiener filter 03 p0393 N84-12568
Fluidized bed gasification of biomass to methane
[NASA-CASE-NPO-15903-1] 03 p0403 N84-12635
Method and apparatus for minimizing convection during crystal growth from solution
[NASA-CASE-NPO-15811-1] 03 p0451 N84-12968
Solar Wind Five
[NASA-CP-2280] 03 p0466 N84-13067
Observational constraints on solar wind acceleration mechanisms 03 p0467 N84-13078
Solar cycle variations in the interplanetary magnetic field 03 p0469 N84-13091
The effect of the solar field reversal on the modulation of galactic cosmic rays 03 p0471 N84-13101
The Telecommunications and Data Acquisition Report
[NASA-CR-174610] 04 p0518 N84-13401
Orbit determination of highly elliptical Earth orbiters using VLBI and delta VLBI measurements 04 p0518 N84-13402
The effects of Reed-Solomon code shortening on the performance of coded telemetry systems 04 p0518 N84-13403
Detectors for optical communications: A review 04 p0518 N84-13404
Superconducting niobium thin film slow-wave structures 04 p0518 N84-13405
VLSI architectures for computing multiplications and inverses in GF(2-m) 04 p0518 N84-13406
Deformable subreflector computed by geometric optics 04 p0519 N84-13407
An EPROM-based function generator 04 p0519 N84-13408
Polynomial driven time base and PN generator 04 p0519 N84-13409
RF performance of a proposed L-band antenna system 04 p0519 N84-13410
Intercontinental time and frequency transfer using a global positioning system timing receiver 04 p0519 N84-13411
NASTRAN structural model for the large 64-meter antenna pedestal. Part 2: Improved model 04 p0519 N84-13412
Energy consumption analysis of the Venus Deep Space Station (DSS-13) 04 p0519 N84-13413
A study of the charged particle calibration requirements for the Deep Space Network 04 p0519 N84-13414
Design issues in the GCF Mark 4 development 04 p0520 N84-13415
Results of the Australian geodetic VLBI experiment 04 p0520 N84-13416
Pressure letdown method and device for coal conversion systems
[NASA-CASE-NPO-15100-1] 05 p0698 N84-14583
Proceedings of the US Department of Energy Photovoltaics Program Annual Review
[DE83-010325] 05 p0699 N84-14589
Ada and the NASA software environment 05 p0724 N84-14749
JPL closeup
[NASA-CR-175324] 06 p0793 N84-15168
Optimal design of gas adsorption refrigerators for cryogenic cooling 06 p0820 N84-15348
A general computer model for predicting the performance of gas sorption refrigerators 06 p0820 N84-15349
LaNi5 hydride cryogenic refrigerator test results 06 p0821 N84-15350
Cascade Joule-Thomson refrigerators 06 p0821 N84-15354
Maser cavity servo-tuning system
[NASA-CASE-NPO-15890-1] 06 p0849 N84-15536
Discharge cell for optogalvanic spectroscopy having orthogonal relationship between the probe laser and discharge axis
[NASA-CASE-NPO-16271-1] 06 p0849 N84-15537
Remote sensing with spaceborne synthetic aperture imaging radars: A review 06 p0867 N84-15648
Research on the use of space resources
[NASA-CR-173213] 07 p0961 N84-16227
Supercritical multicomponent solvent coal extraction
[NASA-CASE-NPO-15767-1] 07 p0965 N84-16255
Antimisting kerosene: Base fuel effects, blending and quality control techniques
[NASA-CR-174509] 07 p0980 N84-16351
Atomization and combustion performance of antimisting kerosene and jet fuel
[NASA-CR-174507] 07 p0980 N84-16353
Antimisting fuel breakup and flammability
[NASA-CR-174508] 07 p0981 N84-16354
Spaceborne Imaging Radar Symposium
[NASA-CR-173186] 07 p0987 N84-16390
Substance geology of the western desert in Egypt and Sudan revealed by Shuttle Imaging Radar (SIR-A) 07 p0987 N84-16392
Use of coregistered radar, visible and IR images for geologic remote sensing 07 p0987 N84-16393
Shuttle Imaging Radar: A/B sensors 07 p0987 N84-16395
Stereo imaging with spaceborne radars 07 p0988 N84-16400
Use of radar image texture in geologic mapping 07 p0988 N84-16402
The SIR-A atlas 07 p0989 N84-16405
Performance evaluation of the JPL interim digital SAR processor 07 p0989 N84-16407
Real-time digital processing of SAR data 07 p0989 N84-16408
Real-time synthetic aperture radar image formation utilizing an electrooptic spatial light modulator 07 p0989 N84-16411
Radar image interpretation techniques applied to sea ice geophysical problems 07 p0990 N84-16413
Observations of internal waves in the Gulf of California by SEASAT SAR 07 p0990 N84-16414
Spaceborne radar research in the 1960's 07 p0990 N84-16417
A user's manual for the NASA/JPL synthetic aperture radar and the NASA/JPL L and C band scatterometers
[NASA-CR-173209] 07 p0992 N84-16428
The development of efficient coding for an electronic mail system
[NASA-CR-173201] 07 p0992 N84-16429
Electrodes for solid state devices
[NASA-CASE-NPO-15161-1] 07 p0996 N84-16456
Application of image processing technology to problems in manuscript encapsulation
[NASA-CR-173200] 07 p1007 N84-16528
Solar thermal technology evaluation, fiscal year 1982. Volume 1: Executive summary
[NASA-CR-173190] 07 p1025 N84-16640

Solar thermal technology evaluation, fiscal year 1982. Volume 2: Technical
[NASA-CR-173191] 07 p1025 N84-16641
ECUT: Energy Conversion and Utilization Technologies program. Chemical Processes project report, FY 1982
[NASA-CR-173212] 07 p1025 N84-16642
The value of residential photovoltaic systems: A comprehensive assessment
[NASA-CR-173205] 07 p1025 N84-16643
Solar parabolic technology evaluation
[NASA-CR-173203] 07 p1025 N84-16644
Global Change: A Biogeochemical Perspective
[NASA-CR-173210] 07 p1027 N84-16656
Evaluation of thermal data for geologic applications
[NASA-CR-173211] 07 p1033 N84-16703
Remote measurements of ozone, water vapor and liquid water content, and vertical profiles of temperature in the lower troposphere
[NASA-CR-173206] 07 p1033 N84-16704
Report of the NASA workshop on tidal research
[NASA-CR-173204] 07 p1040 N84-16744
Radiation protection for manned space activities
[NASA-CR-173202] 07 p1047 N84-16791
Contactless pellet fabrication
[NASA-CASE-NPO-15592-1] 07 p1069 N84-16940
Vibrating-chamber levitation systems
[NASA-CASE-NPO-16142-1] 07 p1070 N84-16948
Gravity enhanced acoustic levitation method and apparatus
[NASA-CASE-NPO-16147-1] 07 p1070 N84-16949
Ion beam accelerator system
[NASA-CASE-NPO-15547-1] 07 p1071 N84-16959
Hollow cathode apparatus
[NASA-CASE-NPO-15560-1] 07 p1076 N84-16993
Planetary geometry handbook: Venus positional data, 1988 - 2020, volume 2
[NASA-CR-173192] 07 p1091 N84-17096
Planetary geometry handbook: Mars positional data, 1990 - 2020, volume 3
[NASA-CR-173193] 07 p1091 N84-17097
Planetary geometry handbook: Jupiter positional data, 1985 - 2020, volume 4
[NASA-CR-173194] 07 p1091 N84-17098
Planetary geometry handbook: Saturn positional data, 1985 - 2020, volume 5
[NASA-CR-173195] 07 p1091 N84-17099
The 55-meter-structure flight experiment
08 p1112 N84-17233
Refractory materials for high-temperature thermoelectric energy conversion
[NASA-CR-173159] 08 p1136 N84-17388
Apparatus and method for destructive removal of particles contained in flowing fluid
[NASA-CASE-NPO-15426-1] 08 p1161 N84-17555
Effects of systematic errors on the mixing ratios of trace gases obtained from occulation spectra
[NASA-CR-175371] 08 p1231 N84-18046
Interplanetary mission design handbook. Volume 1, part 2: Earth to Mars ballistic mission opportunities, 1990-2005
[NASA-CR-173306] 09 p1260 N84-18226
The ISPM unified radio and plasma wave experiment
09 p1262 N84-18237
Thermal conductivity behavior of boron carbides
[NASA-CR-173165] 09 p1316 N84-18600
In vitro seed to seed growth on clinostats
09 p1356 N84-18863
A parallel VLSI architecture for a digital filter using a number theoretic transform 09 p1400 N84-19141
Problem-oriented specification of concurrent algorithms 09 p1400 N84-19145
Starprobe thermal shield evolution
10 p1448 N84-19462
The Telecommunications and Data Acquisition Report
[NASA-CR-173263] 10 p1473 N84-19621
Another look at the optimum frequencies for a water vapor radiometer 10 p1473 N84-19622
Inversion algorithms for water vapor radiometers operating at 20.7 and 31.4 GHz
10 p1473 N84-19623
DSN microwave antenna holography
10 p1474 N84-19624
Loop gain and circuit parameters for residual carrier tracking in the advanced DSN block V receiver
10 p1474 N84-19625
X-band uplink ground systems development
10 p1474 N84-19626
Doppler system phase transfer functions for a system with an X-band uplink and X-band and S-band downlinks
10 p1474 N84-19627
Transfer function bounds for partial-unit-memory convolutional codes based on reduced state diagram
10 p1474 N84-19628
Simulations for full unit-memory and partial unit-memory convolutional codes with real-time minimal-byte-error probability decoding algorithm 10 p1474 N84-19629
Signal-to-noise ratio and combiner weight estimation for symbol stream combining 10 p1474 N84-19630
A systolic VLSI design of a pipeline Reed-Solomon decoder 10 p1474 N84-19631
ISEE-3 microwave filter requirements
10 p1475 N84-19632
Telemetry simulation assembly implementation in the DSN 10 p1475 N84-19633
Operator workload measurement validation for the MARK IV DSCC monitor and control subsystem
10 p1475 N84-19634
First results of GPS time transfer to Australia
10 p1475 N84-19635
Implementation of large antennas for deep space mission support 10 p1475 N84-19636
Enhanced radio frequency carrier margin improvements for an array of receiving systems with unequal predetection signal-to-noise ratios 10 p1475 N84-19637
Optimum cyclic redundancy codes for noisier channels
10 p1475 N84-19638
SETI investigations at Jodrell Bank, England: September through November 1983 10 p1476 N84-19639
Acoustic environments for JPL shuttle payloads based on early flight data 10 p1512 N84-19898
Test bed ion engine development
[NASA-CR-174623] 11 p1624 N84-20632
Increased voltage photovoltaic cell
[NASA-CASE-NPO-16155-1] 11 p1673 N84-20917
Oceanic mesoscale variability and general circulation from satellite altimetry: A status report
[AD-P002653] 11 p1689 N84-21018
Demonstration of the coast-down technique for determining train resistances
[NASA-CR-173468] 12 p1765 N84-21515
Results of the 1983 NASA/JPL balloon flight solar cell calibration program
[NASA-CR-173465] 12 p1779 N84-21609
A probabilistic analysis of silicon cost
[NASA-CR-173461] 12 p1801 N84-21741
Product assurance technology for procuring reliable, custom LSI/VLSI electronics
[NASA-CR-173405] 12 p1812 N84-21810
Performance evaluation and geologic utility of LANDSAT-4 TM and MSS data
[E84-10099] 12 p1828 N84-21918
Effects of vegetation canopy structure on microwave scattering 12 p1832 N84-21942
Bidirectional spectral reflectance of Earth resources: Influence of scene complexity and atmospheric effects on remote sensing 12 p1833 N84-21946
Satellite-Derived Sea Surface Temperature: Workshop 1
[NASA-CR-173450] 12 p1834 N84-21955
Satellite-derived sea surface temperature: Introduction 12 p1834 N84-21956
Analysis techniques 12 p1834 N84-21957
Processing system 12 p1835 N84-21958
In situ data 12 p1835 N84-21959
Satellite data 12 p1835 N84-21960
Comparison of satellite and in situ data
12 p1835 N84-21961
Conclusions and recommendations
12 p1835 N84-21962
Pilot Ocean Data System (PODS) file format specifications 12 p1836 N84-21968
Three-way partitioning of sea surface temperature measurement error 12 p1836 N84-21969
Photovoltaic energy systems
[DOE/CE-0033/1] 12 p1838 N84-21979
Proceedings of the Flat-Plate Solar Array Project Research Forum on Photovoltaic Metallization Systems
[NASA-CR-173477] 12 p1838 N84-21980
Economic implications of current systems
12 p1838 N84-21982
Field test experience 12 p1838 N84-21984
Getting the current out 12 p1838 N84-21986
Observations of solar-cell metallization corrosion
12 p1839 N84-21988
Module degradation catalyzed by metal-encapsulation reactions 12 p1839 N84-21989
An assessment of advanced technology for industrial cogeneration
[NASA-CR-173456] 12 p1841 N84-22001
NASA flight electronics environmental stress screening survey
[NASA-CR-173472] 12 p1841 N84-22002
A survey of gas-side fouling in industrial heat-transfer equipment
[NASA-CR-173469] 12 p1841 N84-22003
JPL tests of a LaJet concentrator facet
[NASA-CR-173470] 12 p1841 N84-22004
Advanced cogeneration research study: Executive summary
[NASA-CR-173467] 12 p1841 N84-22005
Cogeneration computer model assessment: Advanced cogeneration research study
[NASA-CR-173453] 12 p1841 N84-22006
Survey of cogeneration: Advanced cogeneration research study
[NASA-CR-173454] 12 p1842 N84-22007
Chemical bonding technology for terrestrial photovoltaic modules
[NASA-CR-173460] 12 p1842 N84-22008
Photovoltaic power conditioning subsystem: State of the art and development opportunities
[NASA-CR-173458] 12 p1842 N84-22009
Solar tests of aperture plate materials for solar thermal dish collectors
[NASA-CR-173462] 12 p1842 N84-22010
Publications of the JPL Solar Thermal Power Systems Project, 1976 to 1983
[NASA-CR-173464] 12 p1842 N84-22011
ECUT: Energy Conversion and Utilization Technologies program. Heterogeneous catalysis modeling program concept
[NASA-CR-173463] 12 p1842 N84-22012
Description of algorithms for processing Coastal Zone Color Scanner (CZCS) data
[NASA-CR-173466] 12 p1863 N84-22138
Observation model and parameter partials for the JPL VLBI parameter estimation software MASTERFIT-V1.0
[NASA-CR-173455] 12 p1879 N84-22245
A comparison of radiation damage in liner ICs from cobalt-60 gamma rays and 2.2-MeV electrons
[NASA-CR-173474] 12 p1901 N84-22380
Spatial interferometry for white light processing: The coherence interferometer 12 p1905 N84-22407
Background sources in optical communications
[NASA-CR-173457] 12 p1907 N84-22422
The physics of a single-event upset in integrated circuits: A review and critique of analytical models for charge collection
[NASA-CR-173471] 12 p1912 N84-22459
Characterization of grain boundaries in silicon
[NASA-CR-173459] 12 p1912 N84-22460
MMH-nitrate and plume deposits from NTO/MMH engines 13 p1941 N84-22620
Multiple point source model for three dimensional plume flow fields 13 p1941 N84-22625
Very low thrust gaseous oxygen-hydrogen rocket engine ignition technology 13 p1952 N84-22692
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA-CASE-NPO-15494-2] 13 p1993 N84-22935
The Pennsylvania defoliation application pilot test
[E84-10111] 13 p2004 N84-23004
Oil shale extraction using super-critical extraction
[NASA-CASE-NPO-15656-1] 13 p2006 N84-23012
Chemically rechargeable battery
[NASA-CASE-NPO-16024-1] 13 p2007 N84-23020
Topex: Observing the oceans from Space
[NASA-CR-173490] 13 p2018 N84-23085
Short time-scale surface changes on Io
13 p2075 N84-23447
The planet crossing asteroid survey: Progress in the analysis of populations and terrestrial-planet cratering rates 13 p2075 N84-23449
Properties of simulated comet mantle
13 p2076 N84-23452
Geomorphic clues to the Martian volatile inventory. 1: Flow ejecta blankets 13 p2079 N84-23474
Effusion rate, length, and area relationships for some lava flows on Hawaii and Mount Etna with planetary implications 13 p2080 N84-23482
A possible source for the Martian circumpolar dune material 13 p2082 N84-23490
Geomorphic clues to the Martian volatile inventory: Landslides 13 p2086 N84-23516
Galilean satellite multispectral data base production
13 p2087 N84-23521
Is there radar evidence for liquid water on Mars?
13 p2088 N84-23529
Correction and geological analysis of lunar 3.8 CM radar data 13 p2089 N84-23531
Mapping and geological analysis of Mercury radar data 13 p2089 N84-23532
Mercury: Topographic and geologic data from Earth-based radar observations
13 p2089 N84-23533
Non-steady combustion of composite solid propellants
[AD-A139182] 14 p2132 N84-23776
NASA Oceanic Processes Program, fiscal year 1983
[NASA-TM-86248] 14 p2183 N84-24078
A feasibility study of the production of low loss IR fibers in space
[NASA-CR-173430] 14 p2225 N84-24351
Solar-array-materials passive LDEF experiment (A0171) 15 p2274 N84-24656
Fiber optic data transmission experiment (S0109)
15 p2279 N84-24688

Reciprocating magnetic refrigerator employing tandem porous matrices within a reciprocating displacer
[NASA-CASE-NPO-16257-1] 15 p2305 N84-24830
Ice depolarization on low-angle 2 GHz satellite downlinks 15 p2323 N84-24946
Laser pulse detection method and apparatus
[NASA-CASE-NPO-16030-1] 15 p2339 N84-25037
Smart motor technology 15 p2349 N84-25096
Protective telescoping shield for solar concentrator
[NASA-CASE-NPO-16236-1] 15 p2361 N84-25164
Solar thermal system engineering guidebook
[NASA-CR-173432] 15 p2361 N84-25165
ECUT: Energy Conversion and Utilization Technologies program. Industry, university and research interest in the US Department of Energy ECUT biocatalysis research activity
[NASA-CR-173553] 15 p2361 N84-25167
Photovoltaic energy systems: Program summary fiscal year 1983
[DE84-009179] 15 p2364 N84-25186
Nanosequencer digital logic controller
[NASA-CASE-NPO-16116-1] 15 p2385 N84-25306
Publications of the Jet Propulsion Laboratory 1982
[NASA-CR-173539] 15 p2417 N84-25510
The source of Mangalla Vales
15 p2426 N84-25573
Planet-crossing asteroid survey
15 p2427 N84-25580
Nonaerospace uses of JPL technology: A report on technology transfer
[NASA-CR-172804] 15 p2429 N84-25588
Labeled cells as research, diagnostic and therapeutic tools 15 p2429 N84-25589
Computer-assisted chromosome analysis
15 p2430 N84-25590
SAMICS: Engineering/economic model to predict costs 15 p2430 N84-25591
Mass spectrometer for simultaneous detection of ions over wide range of mass 15 p2430 N84-25592
Digital image processing of muscle biopsies
15 p2430 N84-25593
Artificial blood substitutes 15 p2430 N84-25594
Helium-neon lasers for remote measurements of natural gas leaks 15 p2430 N84-25595
Helical rotary screw expanders to generate electricity from geothermal brines 15 p2430 N84-25596
Ultrasound visualization of cardiovascular systems
15 p2430 N84-25597
Computer-aided analysis of atherosclerosis
15 p2431 N84-25598
Composite materials in automobile weight reduction
15 p2431 N84-25599
Detonation-and-flame arresters for gasoline-vapor recovery systems 15 p2431 N84-25600
Flashback flame arresters for fuel cargo tanks
15 p2431 N84-25601
The telecommunications and data acquisition report
[NASA-CR-173565] 16 p2478 N84-25889
Arcsecond positions for milliarcsecond VLBI nuclei of extragalactic radio sources, part 2: 207 sources
16 p2478 N84-25890
Submilliarcsecond VLBI observations of the close pair GC 1342+662 and GC 1342+663
16 p2478 N84-25891
Magnetically enhanced hydrogen gas dissociator: A progress report 16 p2479 N84-25892
X-band uplink technology demonstration at DSS-13
16 p2479 N84-25893
Effects of NRZ-M modulation on convolutional codes performance 16 p2479 N84-25894
New short constraint length, rate 1/N convolutional codes which minimize required E sub b/N sub o for given bit error rate 16 p2479 N84-25895
An easy-to-implement coding scheme for multifrequency PPM 16 p2479 N84-25896
DSS 13 microprocessor antenna controller
16 p2479 N84-25897
TDA assessment of recommendations for space data system standards 16 p2479 N84-25898
Goldstone R/D high speed data acquisition system
16 p2480 N84-25899
Demodulator and accumulator for the high-speed data acquisition system 16 p2480 N84-25900
Effect of RF filtering on the performance of uncoded PCM/PM telemetry channels 16 p2480 N84-25901
Time interval errors of a Flicker-noise generator
16 p2480 N84-25902
Minimum-distance problems in protocol design
16 p2480 N84-25903
Note on the optimum search strategy for uniformly distributed CW transmitters 16 p2480 N84-25904
An investigation of the effects of scan separation on the sensitivity of the SETI all sky survey for the case of Gaussian noise 16 p2480 N84-25905
The use of satellite observations of the ocean surface in commercial fishing operations
[AD-P003120] 16 p2533 N84-26261
Digitally controlled sonars
[AD-P003121] 16 p2533 N84-26262
Seeing Halley's Comet: A guide for observers in the Northern Hemisphere
[NASA-CR-173604] 16 p2574 N84-26517
Neutral carbon in the Egg Nebula (AFGL 2688)
[NASA-TM-84360] 16 p2574 N84-26518
Voyager 1 imaging and IRIS observations of Jovian methane absorption and thermal emission: Implications for cloud structure
[NASA-CR-173567] 16 p2579 N84-26544
Alternative voice switching and control system display panel format simulation and evaluation
[NASA-CR-173644] 17 p2654 N84-26973
A new parameterization of an empirical model for wind/ocean scatterometry 17 p2712 N84-27269
Satellite remote sensing over ice
17 p2719 N84-27308
Solar total irradiance variability measurements by the SMM/ACRIM I experiment 17 p2778 N84-27636
Satellite Emission Range Inferred Earth Survey (SERIES) project
[NASA-CR-173728] 18 p2791 N84-27714
Interplanetary mission design handbook. Volume 1, part 1: Earth to Venus ballistic mission opportunities, 1991-2005
[NASA-CR-173736] 18 p2801 N84-27779
Synthetic aperture radar target simulator
[NASA-CASE-NPO-15024-1] 18 p2827 N84-27951
Land Mobile Satellite Service (LMSS) channel simulator: An end-to-end hardware simulation and study of the LMSS communications links
[NASA-CR-173744] 18 p2828 N84-27956
Requirements for a transformerless power conditioning system
[NASA-CR-173742] 18 p2833 N84-27981
Performance of the Lester battery charger in electric vehicles
[NASA-CR-173726] 18 p2833 N84-27982
A survey of gas-side fouling measuring devices
[NASA-CR-173734] 18 p2836 N84-28003
Ion mass spectrometer
[NASA-CASE-NPO-15423-1] 18 p2838 N84-28016
Shaft transducer having dc output proportional to angular velocity
[NASA-CASE-NPO-15706-1] 18 p2838 N84-28017
Aerosol backscatter lidar calibration and data interpretation
[NASA-CR-173738] 18 p2845 N84-28067
Centrifugal-reciprocating compressor
[NASA-CASE-NPO-14597-2] 18 p2848 N84-28081
Solar energy modulator
[NASA-CASE-NPO-15388-1] 18 p2867 N84-28203
ECUT: Energy Conversion and Utilization Technologies program - Biocatalysis research activity
[NASA-CR-173752] 18 p2868 N84-28207
A review of the silicon material task
[NASA-CR-173743] 18 p2868 N84-28210
Effects of voltage control in utility interactive dispersed storage and generation systems
[NASA-CR-173730] 18 p2869 N84-28211
CONC/11: A computer program for calculating the performance of dish-type solar thermal collectors and power systems
[NASA-CR-173735] 18 p2869 N84-28212
Solar parabolic dish technology evaluation report
[NASA-CR-173725] 18 p2870 N84-28217
The kinematic Stirling engine as an energy conversion subsystem for paraboloidal dish solar thermal plants
[NASA-CR-173724] 18 p2870 N84-28218
Summary of photovoltaic system performance models
[NASA-CR-173737] 18 p2870 N84-28220
Second-law efficiency of solar-thermal cavity receivers
[NASA-CR-173732] 18 p2871 N84-28223
Proceedings of the Fifth Parabolic Dish Solar Thermal Power Program
[NASA-CR-173745] 18 p2871 N84-28224
Concentrator development 18 p2871 N84-28225
Parabolic Dish Concentrator (PDC-1)
18 p2871 N84-28226
Advanced solar receivers 18 p2872 N84-28232
Solar tests of aperture plate materials for solar thermal dish collectors 18 p2872 N84-28233
Non-DOE-sponsored domestic dish activities
18 p2872 N84-28234
Stirling module development overview
18 p2873 N84-28240
Brayton module development overview
18 p2874 N84-28245
Special pyrheliometer shroud development
18 p2875 N84-28255
Rapid Test Bed Concentrator (TBC) alignment techniques 18 p2875 N84-28256
Implementation of the Sun position calculation in the PDC-1 control microprocessor 18 p2875 N84-28257
Recent solar measurements results at the parabolic dish test site 18 p2875 N84-28258
Environmental, health and safety assessment of photovoltaics
[NASA-CR-173739] 18 p2877 N84-28267
Cloud cover typing from environmental satellite imagery. Discriminating cloud structure with Fast Fourier Transforms (FFT)
[NASA-CR-173727] 18 p2883 N84-28296
Observing ocean-atmosphere exchanges with space-borne sensors, appendix C
18 p2884 N84-28298
Satellite-Derived Sea Surface Temperature: Workshop-2
[NASA-CR-173740] 18 p2892 N84-28355
Evaluation of the HARDMAN comparability methodology for manpower, personnel and training
[NASA-CR-173733] 18 p2915 N84-28485
A guideline for heavy ion radiation testing for Single Event Upset (SEU)
[NASA-CR-173731] 18 p2929 N84-28576
Integrating IR detector imaging systems
[NASA-CASE-NPO-15805-1] 18 p2932 N84-28590
Proceedings of the Flat-Plate Solar Array Project Research Forum on the High-Speed Growth and Characterization of Crystals for Solar Cells
[NASA-CR-173746] 18 p2935 N84-28614
High-speed growth of silicon crystals: Flat-plate solar array perspective 18 p2935 N84-28615
Crystallization of silicon ribbons
18 p2936 N84-28618
Hybrid vehicle assessment. Phase 1: Petroleum savings analysis
[NASA-CR-173741] 18 p2947 N84-28682
Viking: The exploration of Mars
[NASA-EP-208] 18 p2953 N84-28715
Excess science accommodation capabilities and excess performance capabilities assessment for Mars Geoscience and Climatology Orbiter: Extended study
[NASA-CR-173765] 19 p2978 N84-28882
Spin-polarized triplet helium
[NASA-CR-173787] 19 p2987 N84-28929
The NASA welding assessment program
19 p3048 N84-29339
Radiation Damage Workshop
19 p3049 N84-29348
Flat-plate solar array project: Experimental process system development unit for producing semiconductor-grade silicon using the silane-to-silicon process
[NASA-CR-173762] 19 p3049 N84-29348
Synthesis of major economic studies of residential photovoltaics
[NASA-CR-173766] 19 p3049 N84-29349
Laser-assisted solar cell metallization processing
[NASA-CR-173764] 19 p3050 N84-29354
Laser-assisted solar cell metallization processing
[NASA-CR-173763] 19 p3050 N84-29355
Mission and trajectory design for the Venus orbiting imaging radar 19 p3120 N84-29831
A bibliography of planetary geology principal investigators and their associates, 1982 - 1983
[NASA-TM-86249] 19 p3121 N84-29840
Very low thrust and low chamber pressure GO2/GH2 thruster technology 20 p3136 N84-29910
A study of methods for alleviation of flow decay risk to the Galileo spacecraft 20 p3137 N84-29919
Purification of nitrogen tetroxide for long-term reliability
20 p3137 N84-29920
Stress-corrosion crack-growth study of titanium alloy Ti-6Al-4V exposed to Freon PCA and nitrogen tetroxide MON-1 20 p3138 N84-29923
Cost evaluation of space station propulsion system options 20 p3139 N84-29932
An integrated space station propulsion system
20 p3139 N84-29933
Oxygen/hydrogen thrusters for the space station auxiliary propulsion systems 20 p3140 N84-29934
Thrust level requirements for space station on-orbit propulsion 20 p3140 N84-29935
Dual arm master controller concept: Consolidated fuel reprocessing program
[NASA-CR-173843] 20 p3196 N84-30296
An analysis LANDSAT-4 Thematic Mapper geometric properties 20 p3210 N84-30392
Preliminary geologic/spectral analysis of LANDSAT-4 Thematic Mapper data, Wind River/Bighorn basin area, Wyoming 20 p3213 N84-30413
Data integrity factors affecting the construction of the mapping, charting, and geodesy data base
[NASA-CR-173835] 20 p3228 N84-30511
Laser-assisted solar cell metallization processing
[NASA-CR-173875] 21 p3409 N84-31619

Phobos: Close encounter imaging from the Viking Orbiters
[NASA-RP-1109] 21 p3525 N84-32330
Telecommunications and data acquisition support for the Pioneer Venus Project: Pioneers 12 and 13, prelaunch through March 1984
[NASA-CR-173693] 22 p3539 N84-32403
Submillimeter, millimeter, and microwave spectral line catalogue
[NASA-CR-173699] 22 p3546 N84-32448
Stabilized unsaturated polyesters
[NASA-CASE-NPO-16103-1] 22 p3558 N84-32530
Synchronization tracking in pulse position modulation receiver
[NASA-CASE-NPO-16256-1] 22 p3572 N84-32620
The Telecommunications and Data Acquisition Report
[NASA-CR-173885] 22 p3572 N84-32622
A high-performance hybrid RF isolation amplifier 22 p3572 N84-32623
Optimization of antenna structure design 22 p3572 N84-32624
High power K sub a -band transmitter for planetary radar and spacecraft uplink 22 p3572 N84-32625
Magnetic refrigeration development 22 p3573 N84-32626
Potential surface improvements by bump removal for 64-m antenna 22 p3573 N84-32627
The 64-m antenna automatic subreflector focusing controller 22 p3573 N84-32628
Intermodulation product levels in flame-sprayed materials 22 p3573 N84-32629
Performance simulation for unit-memory convolutional codes with byte-oriented Viterbi decoding algorithm 22 p3573 N84-32630
A simple algorithm for the metric traveling salesman problem 22 p3573 N84-32631
Symbol-stream combiner: Description and demonstration plans 22 p3574 N84-32632
Error-trellis syndrome decoding techniques for convolutional codes 22 p3574 N84-32633
Coherent digital demodulation of a residual carrier signal using IF sampling 22 p3574 N84-32634
A strategy for successful deep space information transmission in bad weather 22 p3574 N84-32635
Tropospheric delay effects in radio interferometry 22 p3574 N84-32636
Investigation and rehabilitation to extend service life of DSS-13 antenna concrete foundation 22 p3574 N84-32637
NASTRAN structural model for the large 64-meter antenna pedestal. Part 3: Applications to hydrostatic bearing oil film 22 p3574 N84-32638
Availability of the DSN telemetry data system and its major elements, including the TWM assemblies 22 p3575 N84-32639
A study of DSN traveling wave maser system reliability 22 p3575 N84-32640
GCF compatibility with packets and data compression 22 p3575 N84-32641
Earth orientation effects on mobile VLBI baselines 22 p3575 N84-32642
Mojave base station implementation 22 p3575 N84-32643
Proceedings of the Flat-Plate Solar Array Project Research Forum on the Design of Flat-Plate Photovoltaic Arrays for Central Stations
[NASA-CR-173918] 22 p3582 N84-32683
Source-circuit design overview 22 p3582 N84-32684
Hot-spot heating in central-station arrays 22 p3582 N84-32686
Electrical insulation design requirements and reliability goals 22 p3583 N84-32691
Hipot and continuity qualification est experience 22 p3583 N84-32692
Laboratory experience with voltage breakdown 22 p3583 N84-32693
Breakdown of organic insulators 22 p3583 N84-32694
Qualification tests and electrical measurements: Practice and problems 22 p3585 N84-32703
Stable density stratification solar pond
[NASA-CASE-NPO-15419-2] 22 p3616 N84-32910
A new solar cell design for improved open circuit voltage and high efficiency
[NASA-CASE-NPO-16126-1] 22 p3616 N84-32911
Solar-heated oil shale retort
[NASA-CASE-NPO-16392-1] 22 p3616 N84-32912
Wind loading on solar concentrators: Some general considerations
[NASA-CR-173896] 22 p3616 N84-32915
Review of solar fuel-producing quantum conversion processes
[NASA-CR-173904] 22 p3617 N84-32916
Solar photochemical process engineering for production of fuels and chemicals
[NASA-CR-173910] 22 p3617 N84-32917
A nomographic methodology for use in performance trade-off studies of parabolic dish solar power modules
[NASA-CR-173908] 22 p3617 N84-32918
Survey of manufacturers of high-performance heat engines adaptable to solar applications
[NASA-CR-173911] 22 p3617 N84-32919
Module utilization committee
[NASA-CR-173898] 22 p3617 N84-32920
Flate-plate photovoltaic power systems handbook for Federal agencies
[NASA-CR-173901] 22 p3617 N84-32921
Stand-alone flat-plate photovoltaic power systems: System sizing and life-cycle costing methodology for Federal agencies
[NASA-CR-173903] 22 p3618 N84-32922
Low loss splicing method for single-mode optical fiber
[NASA-CASE-NPO-16294-1] 22 p3656 N84-33179
FET charge sensor and voltage probe
[NASA-CASE-NPO-16045-1] 22 p3662 N84-33211
Polycrystalline silicon study: Low-cost silicon refining technology prospects and semiconductor-grade polycrystalline silicon availability through 1988
[NASA-CR-173897] 22 p3662 N84-33213
Data communication between data terminal equipment and the JPL administrative data base management system 22 p3672 N84-33278
Conceptual design of a monitoring system for the Charters of Freedom
[NASA-CR-173909] 22 p3673 N84-33285
Effects of expiration of the Federal energy tax credit on the National Photovoltaics Program
[NASA-CR-173900] 22 p3675 N84-33299
Energy Conversion and Utilization Technologies Program (ECUT) electrocatalysis research
[NASA-CR-173939] 23 p3713 N84-33534
Glass heating panels and method for preparing the same from architectural reflective glass
[NASA-CASE-NPO-15753-1] 23 p3723 N84-33589
Charge control investigation of rechargeable lithium cells 23 p3736 N84-33671
Characterization of glass fiber separator material for lithium batteries 23 p3736 N84-33674
Kinetics of open circuit processes in undischarged Li/SOCl2 cells
[CONTRIB-336] 23 p3736 N84-33675
Boundary-layer linear stability theory 23 p3748 N84-33759
Portable reflectance spectrometer
[NASA-CASE-NPO-13556-1] 23 p3749 N84-33766
Means and method for calibrating a photon detector utilizing electron-photon coincidence
[NASA-CASE-NPO-15644-1] 23 p3749 N84-33767
Phase sensitive guidance sensor for wire-following vehicles
[NASA-CASE-NPO-15341-1] 23 p3750 N84-33769
Retrieval of vertical moisture profiles with microwave radiometry 23 p3775 N84-33929
Experimental validation of a millimeter wave radar technique to remotely sense atmospheric pressure at the Earth's surface 23 p3775 N84-33935
Digital filter processor design for spaceborne scatterometers 23 p3777 N84-33948
Calibration of precise satellite altimetry for the ionosphere and wet troposphere 23 p3778 N84-33955
Airborne Visible/Infrared Imaging Spectrometer (AVIRIS): An advanced tool for Earth remote sensing 23 p3781 N84-33976
NASA scatterometer research data processing system: Requirements and design 23 p3781 N84-33979
NASA scatterometer on NROSS: A system for global observations of oceanic winds 23 p3782 N84-33980
Demonstration of an active airborne IR laser system for geologic remote sensing 23 p3782 N84-33984
The Venus Radar Mapper: Radar system design for highly elliptical orbits 23 p3782 N84-33986
Photovoltaic module encapsulation design and materials section, volume 2
[NASA-CR-173902] 23 p3786 N84-34013
Development of metallization process
[NASA-CR-173956] 23 p3786 N84-34014
Development of a polysilicon process based on chemical vapor deposition, phase 1 and phase 2
[NASA-CR-173957] 23 p3786 N84-34015
Design, analysis and test verification of advanced encapsulation systems
[NASA-CR-173955] 23 p3787 N84-34016
Stress studies in EFG
[NASA-CR-173960] 23 p3787 N84-34018
Large-area sheet task advanced dendritic web growth development
[NASA-CR-173958] 23 p3787 N84-34019
Silicon solar cell process development, fabrication and analysis
[NASA-CR-173950] 23 p3787 N84-34020
Progress research of non-Cz silicon material
[NASA-CR-173949] 23 p3787 N84-34021
Development of metallization process: FSA project, cell and module formation research area
[NASA-CR-173951] 23 p3788 N84-34022
Surface property modification of silicon
[NASA-CR-173952] 23 p3788 N84-34023
Development and fabrication of a solar cell junction processing system
[NASA-CR-174948] 23 p3788 N84-34024
Comprehensive silicon solar cell computer modeling
[NASA-CR-173953] 23 p3788 N84-34025
Process Research of Poycrystalline Silicon Material (PROPSM)
[NASA-CR-173934] 23 p3788 N84-34026
Excimer laser annealing to fabricate low cost solar cells
[NASA-CR-173938] 23 p3788 N84-34027
Design, analysis and test verification of advanced encapsulation systems
[NASA-CR-173941] 23 p3789 N84-34028
Investigation of test methods, material properties and processes for solar cell encapsulants
[NASA-CR-173940] 23 p3789 N84-34029
Development of metallization process. FSA project, cell and module formation research area
[NASA-CR-173959] 23 p3789 N84-34030
Development of metallization process
[NASA-CR-173943] 23 p3789 N84-34031
Interactions of twin boundaries and dislocations in solar silicon
[NASA-CR-173942] 23 p3789 N84-34032
Process Research of Polycrystalline Silicon Material (PROPSM)
[NASA-CR-173935] 23 p3789 N84-34033
Low cost solar array project. Experimental process system development unit for producing semiconductor-grade silicon using the silane-to-silicon process
[NASA-CR-173936] 23 p3789 N84-34034
Nickel-iron battery system safety
[NASA-CR-173937] 23 p3790 N84-34035
A search for 183-GHz emission from water in late-type stars
[NASA-TM-85987] 23 p3838 N84-34348
A modeling analysis program for the JPL Table Mountain Io sodium cloud data
[NASA-CR-173971] 23 p3844 N84-34386
System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] 24 p3855 N84-34443
Pipelined digital SAR azimuth correlator using hybrid FFT-transversal filter
[NASA-CASE-NPO-15519-1] 24 p3893 N84-34651
Correlation spectrometer having high resolution and multiplexing capability
[NASA-CASE-NPO-15558-1] 24 p3901 N84-34705
Saltless solar pond
[NASA-CASE-NPO-15808-1] 24 p3916 N84-34792
Radiation effects in silicon and gallium arsenide solar cells using isotropic and normally incident radiation
[NASA-CR-174007] 24 p3916 N84-34793
Epitaxial thinning process
[NASA-CASE-NPO-15786-1] 24 p3966 N84-35112
Process and apparatus for growing a crystal ribbon
[NASA-CASE-NPO-15629-1] 24 p3966 N84-35113

JET PROPULSION LAB., CAPE CANAVERAL, FLA.
Telecommunications and data acquisition systems support for Voyager missions to Jupiter and Saturn, 1972-1981, prelaunch through Saturn encounter
[NASA-CR-174571] 02 p0183 N84-11186

JIWAJI UNIV., GWAHOR (INDIA).
An epicycloidal hole under uniform tangential force in an infinite, isotropic, compressible medium in second order elasticity 15 p2401 N84-25407

JOHANN-WOLFGANG-GOETHE-UNIV., FRANKFURT AM MAIN (WEST GERMANY).
Theory of resonance-enhanced optical nonlinearities in semiconductors 14 p2234 N84-24407
Simulations of the dynamics of optical bistability with fluctuations 14 p2236 N84-24421

JOHN CARROLL UNIV., CLEVELAND, OHIO.
Studies of the propagation of elastic waves in fluids and solids
[AD-A137603] 11 p1729 N84-21278

JOHNS HOPKINS UNIV., BALTIMORE, MD.
Fuel ignition by high voltage capacitive discharges
[PB83-209155] 01 p0039 N84-10245
On gravity from SST, geoid from SEASAT, and plate age and fracture zones in the Pacific
[E84-10025] 02 p0238 N84-11559
Geoid anomalies and fracture zones in the Pacific Ocean
[E84-10052] 05 p0696 N84-14572

Short period P-wave attenuation in the middle and lower mantle of the Earth 05 p0706 N84-14633
The magnetic petrology of the deep crust and the interpretation of regional magnetic anomalies 05 p0706 N84-14634
An extreme ultraviolet study of Tokamak plasmas using a time-resolving spectrograph 05 p0748 N84-14915
Rocket and laboratory studies in aeronomy and astronomy
[NASA-CR-173272] 07 p1088 N84-17075
Analysis of an error detection scheme for parallel computations
[AD-A134819] 08 p1152 N84-17496
Testability of interconnection structures
[AD-A135431] 08 p1168 N84-17607
Acoustic emission determination of deformation mechanisms leading to failure of naval alloys, volume 1
[AD-A135387] 08 p1171 N84-17626
Acoustic emission determination of deformation mechanisms leading to failure of naval alloys, volume 2
[AD-A135388] 08 p1171 N84-17627
Exhaust emissions from a diesel engine
[PB84-122910] 08 p1184 N84-17713
The delineation and interpretation of the Earth's gravity field
[NASA-CR-173310] 08 p1185 N84-17722
Biochemical indicators of thermal stress: Selected genetic and physiological parameters
[PB84-100122] 08 p1198 N84-17808
Precipitation in rapidly solidified Al-Mn alloys
[AD-A136128] 09 p1284 N84-18385
Positive and negative reinforcement effects on behavior in a three-person microsociety
[NASA-CR-173164] 09 p1363 N84-18902
Analysis of an error masking scheme for parallel computations
[AD-A136372] 09 p1374 N84-18971
Estimation and reconstruction for stochastic processes and deterministic functions
[AD-A136571] 09 p1382 N84-19024
An approach to reliable parallel data processing 09 p1402 N84-19157
Quantum chemical investigations of the mechanism of cationic polymerization and theoretical prediction of crystal densities and decomposition pathways of energetic molecules
[AD-A137271] 10 p1465 N84-19571
The magnetic petrology of the deep crust and the interpretation of regional magnetic anomalies
[NASA-CR-175407] 10 p1533 N84-20041
Petrologic and geophysical study of the source of long wavelength crustal magnetic anomalies
[NASA-CR-175168] 11 p1677 N84-20946
Metastable phases of rapidly solidified Al-rich, Al-Fe alloys
[AD-A139598] 14 p2128 N84-23757
Optical communication with laser diode arrays
[NASA-CR-173533] 14 p2150 N84-23879
Dye laser traveling wave amplifier
[NASA-CR-175228] 15 p2338 N84-25036
Morning twilight observations of the zodiacal light and terrestrial airglow 16 p2526 N84-26222
Ultrasonic and optical evaluation of surgical implant materials and devices. A durability study of pericardial bioprostheses
[NASA-CR-173437] 16 p2535 N84-26274
The diffuse ultraviolet background: 1700 - 2900 Angstroms 16 p2576 N84-26534
On the response to ocean surface currents in synthetic aperture radar imagery 17 p2718 N84-27304
Petrologic and geophysical sources of long-wavelength crustal magnetic anomalies
[NASA-CR-175245] 18 p2878 N84-28276
Strict redundancy schemes for non-sequential detector reliability. Part 1: Analysis
[AD-A141875] 19 p3006 N84-29055
Behavioral and biological effects of changes in group size and membership
[NASA-CR-173801] 19 p3067 N84-29457
A new optical technique for rapid determination of creep and fatigue thresholds at high temperature
[AD-A142675] 20 p3202 N84-30341
Ultraviolet studies of interstellar matter 23 p3839 N84-34356

JOHNS HOPKINS UNIV., LAUREL, MD.

The information content of spaceborne SAR ocean image spectra 23 p3771 N84-33905
Comparison of ocean wave energy measured by SEASAT synthetic aperture radar with SAR surface wave imaging theories 23 p3771 N84-33908

JOHNS HOPKINS UNIV., SHADYSIDE, MD.

Chesapeake Bay nutrient dynamics study
[PB84-190982] 20 p3229 N84-30524

JOHNSON CONTROLS, INC., MILWAUKEE, WIS.

Effect of antimony on lead-acid battery negative electrode
[DE83-014880] 03 p0369 N84-12404
Research, development and demonstration of lead-acid batteries for electric vehicle propulsion
[DE84-000468] 04 p0527 N84-13464

JOINT ECONOMIC COMMITTEE (U. S. CONGRESS).

The impact of robotics on employment
[GPO-21-160] 05 p0715 N84-14684

JOINT INST. FOR LAB. ASTROPHYSICS, BOULDER, COLO.

The JILA (Joint Institute for Laboratory Astrophysics) portable absolute gravity apparatus
[AD-A132199] 05 p0684 N84-14495
Models for the active and quiescent regions on the RS CVN-type system 2 Pegasi (HD 224085) 24 p3978 N84-35197

JOINT PUBLICATIONS RESEARCH SERVICE, ARLINGTON, VA.

USSR report: Transportation, no. 126
[JPRS-84457] 01 p0001 N84-10001
Mininster Bugayev promises improved Aeroflot services 01 p0001 N84-10002
Deputy Minister Svechnikov on civil aviation construction projects 01 p0001 N84-10003
Start automated traffic control system operational at Krasnodar 01 p0001 N84-10004
Improved air shipment of fruit reported this year 01 p0001 N84-10005
Upgraded Yakutsk airport opens to IL-62 service 01 p0001 N84-10006
Uzbek SSR city of Shakhrisabz opens new airport: Tourism planned 01 p0001 N84-10007
USSR report: Science and technology, no. 19
[JPRS-84497] 01 p0054 N84-10348
Trade agreements on know-how discussed 01 p0054 N84-10349
Measures to step up practical use of scientific work discussed 01 p0054 N84-10350
Effects of science, technology on structure of production process 01 p0054 N84-10351
Successes, shortcomings in using production wastes as raw material 01 p0054 N84-10352
Use of scientific potential in industry discusses 01 p0055 N84-10353
Designers voice complaints, suggestions regarding their work 01 p0055 N84-10354
Soviet economist discusses efficient use of scientific potential 01 p0055 N84-10355
Scientists discuss increased production with fewer workers 01 p0055 N84-10356
Scientist discusses problems in introducing new technology 01 p0055 N84-10357
Acceleration of S&T progress discussed 01 p0055 N84-10358
Academician outlines accomplishments, new developments in optical physics 01 p0055 N84-10359
Improved planning for local territorial units urged 01 p0055 N84-10360
Effect from introduction of new technology in the Georgian SSR 01 p0056 N84-10361
Scientific-production complexes organized in Georgia 01 p0056 N84-10362
Contributions of academic institutes to effectiveness of new technology in the Georgian SSR 01 p0056 N84-10363
Work of Estonian Astrophysics and Atmospheric Physics Institute described 01 p0056 N84-10364
Uzbek scientific intelligentsia under developed Socialism 01 p0056 N84-10365
China report: Science and technology, no. 208
[JPRS-84474] 01 p0118 N84-10766
Nationwide computer users' information retrieval system 01 p0118 N84-10767
YIDOYU-1: Computer system for optimal wing design 01 p0118 N84-10768
USSR report: Science and technology policy, no. 18
[JPRS-84484] 01 p0157 N84-11034
The socialist and developing countries: Technology transfer 01 p0157 N84-11035
Scientific, technical cooperation among CEMA member-countries urged 01 p0157 N84-11036
Stronger union of science and industry demanded 01 p0157 N84-11037
Improvements noted in patent information system for CEMA member-countries 01 p0158 N84-11038
Organizational improvements in CEMA scientific, technical cooperation sought 01 p0158 N84-11039
Pravda article on inventions elicits response 01 p0158 N84-11040
Improved management of scientific progress in Armenia urged 01 p0158 N84-11041
Lack of support for introduction of Soviet inventions scored 01 p0158 N84-11042
Sixth all-union congress of inventors held 01 p0158 N84-11043
Applications of academic research neglected by industry 01 p0158 N84-11044
Science and technology programs discussed 01 p0158 N84-11045
USSR report: Transportation, no. 129
[JPRS-84573] 02 p0167 N84-11094
Poor quality aircraft exterior surfaces cause greater fuel expenditures 02 p0167 N84-11095
Polyurethane aircraft coatings for fuel savings 02 p0167 N84-11096
Innovations for improving performance, aerodynamic properties of aircraft 02 p0167 N84-11097
East Europe report: Scientific affairs, no. 789
[JPRS-84426] 02 p0205 N84-11336
Programmed M3T 300 terminals discussed 02 p0205 N84-11337
AVT 110 automatic multiple probe tester described 02 p0205 N84-11338
Report on development, installation of industrial robots 02 p0205 N84-11339
USSR report: Space Biology and Aerospace Medicine, volume 17, no. 5, September - October 1983
[JPRS-84655] 02 p0259 N84-11693
Study of cardiovascular system during long-term spaceflights 02 p0259 N84-11694
Simulation of cerebrocranial trauma for evaluation and development of gear to protect pilots against impacts 02 p0259 N84-11695
Aircraft crew diet in emergency situations 02 p0259 N84-11696
Changes in cardiac output and orthostatic stability of cosmonauts 02 p0259 N84-11697
Hemodynamic reactions to positive intrathoracic pressure at +G sub z accelerations 02 p0259 N84-11698
Normal human coronary circulation during postural tests and decompression of lower half of body 02 p0259 N84-11699
Dynamics of rheographic parameters of cerebral circulation and circulation in the extremities during active orthostatic test 02 p0260 N84-11700
Effect of redistribution of blood on severity of spatial position illusions in weightlessness 02 p0260 N84-11701
Free amino acids of blood before and after short-term spaceflights 02 p0260 N84-11702
Changes in blood urea content under hypokinetic conditions 02 p0260 N84-11703
Energy metalbolism enzymes in simulation of some spaceflight factors 02 p0260 N84-11704
Morphometric study of rat adrenal medulla during long-term hypokinesia 02 p0260 N84-11705
Effect of eleuterococcus extract on recovery processes in rats following seven-day hypokinesia 02 p0260 N84-11706
Effect of hypokinesia on amino acid metabolism in rats on diets differing in calcium and phosphorus content 02 p0261 N84-11707
Demonstration of gas bubbles in canine pulmonary artery and aorta by means of ultrasonic echography with intravenous air infusion 02 p0261 N84-11708
Physiological and ecological characteristics of the water fern, azolla pinnata, and prospects of using it in biological life-support system for man 02 p0261 N84-11709
Prediction of vomiting in dogs exposed to radiation with shielding of midabdomen 02 p0261 N84-11710
Condition of erythrocytes during long-term exposure to magnetic field 02 p0261 N84-11711
Experimental psychological methods used in expert evaluation of mental work capacity of flight personnel in the presence of functional disturbances and central nervous system diseases 02 p0261 N84-11712
Objectivization of evaluation of speech intelligibility during flights 02 p0261 N84-11713
Determination of a subjects condition according to pitch of the vocal vowel 'A' 02 p0261 N84-11714
Method for assessing mental stress in operators 02 p0262 N84-11715
A method of assessing cardiac function with bicycle ergometry in expert medical certification of pilots 02 p0262 N84-11716
Evaluation of skeletal muscle tone by recording lateral rigidity 02 p0262 N84-11717
Method for identifying trace contaminants in chamber atmosphere at high pressure 02 p0262 N84-11718
Device for graded exercising of rats in pressure chamber 02 p0262 N84-11719
USSR report: Space, no. 25
[JPRS-84946] 05 p0633 N84-14159
Manned flight chronology 05 p0633 N84-14160
Krasnaya Zvezda on advantages of Cosmos-1443 modular spacecraft 05 p0633 N84-14161
Cosmonauts use new instruments for Earth study 05 p0633 N84-14162

Elektrotopograf experiment on Salyut-7
05 p0633 N84-14163

Ocean color studies from Salyut-7
05 p0633 N84-14164

Fundamental astrometry today and tomorrow
05 p0634 N84-14165

The 5th Symposium on Gravitational Physiology
05 p0634 N84-14166

Remote sensing of the Earth and agriculture
05 p0634 N84-14167

Avduyevskiy on accomplishments and prospects of cosmonautics
05 p0634 N84-14168

West Europe report: Science and technology, no. 169 [JPRS-84936]
05 p0634 N84-14169

High cost, lack of interest, money for Spacelab launches
05 p0634 N84-14170

Danish crystal-growth experiment aboard Spacelab
05 p0634 N84-14171

USSR rept.: Electronics and electrical engineering. Radar signal reception against background of random interference [JPRS-UEE-84-001]
07 p0986 N84-16389

USSR report: Life sciences. Effects of nonionizing electromagnetic radiation, no. 13 [JPRS-84991]
07 p1043 N84-16762

Permeability of sodium sulfacyl through membrane structures differing in degree of organization with exposure to low-frequency magnetic field
07 p1043 N84-16763

Change in immunobiological reactivity under the effect of combined exposure to microwaves, infrasound and gamma radiation
07 p1043 N84-16764

Influence of variable magnetic field on bactericidal effect of ionizing radiation
07 p1043 N84-16765

Animal sensitivity to super-high frequency electromagnetic fields in correlation to age
07 p1043 N84-16766

New trends in standardization of electromagnetic microwave radiation
07 p1044 N84-16767

Use of electromagnetic field in patients following a disruption of cerebral circulation
07 p1044 N84-16768

USSR report: Space Biology and Aerospace Medicine, Vol. 17, No. 6, November - December 1983 94 p [JPRS-USB-84-001]
07 p1044 N84-16769

Practical applications of advances in aviation medicine
07 p1044 N84-16770

Shielding part of bone marrow as a method of local protection against cosmic radiation
07 p1044 N84-16771

Fluid intake at high altitudes
07 p1044 N84-16772

Mental status and work capacity of Salyut-6 station crew members
07 p1044 N84-16773

Changes in some rheological parameters of blood in experiments simulating weightlessness
07 p1044 N84-16774

G suit of bladderless type as a means of improving orthostatic stability after water immersion hypokinesia nd exposure to accelerations
07 p1045 N84-16775

Study of metabolic sequelae of using positive intrapulmonary pressure during exposure to accelerations
07 p1045 N84-16776

Effect of sydnocarb on hemodynamics and redistribution of blood during functional tests following six-hour antiorthostatic hypokinesia
07 p1045 N84-16777

Respiratory tract closing volume and structure of total lung capacity during seven-day hypokinesia in head-down position
07 p1045 N84-16778

Evaluation of human blood morphological composition during exercise in sealed chamber with different concentrations of ammonia
07 p1045 N84-16779

Metabolic disturbances in man in an environment with low ammonia level and their correction by graded physical exercise
07 p1045 N84-16780

Metabolism and nutritional status in emergency situations without food supply or on a low-calorie diet
07 p1046 N84-16781

Effect of periodic accelerations of 5 G on kinetics of erythrocyte hemolysis in white rats
07 p1046 N84-16782

Neuronal-vascular relations in lateral geniculate body and superior colliculi of cats after exposure to accelerations
07 p1046 N84-16783

Study of vibration resonance frequencies in rats
07 p1046 N84-16784

Comparative characteristics of erythron reactions to hypoxic hypoxia, immobilization and high-intensity stationary magnetic field
07 p1046 N84-16785

Plant waste processing on a solid substrate for a biological life-support system for man
07 p1046 N84-16786

Detection of latent atherosclerotic stenosing lesions to great vessels of the head in flight personnel
07 p1046 N84-16787

Bioecholocation method for inestigation of parameters of intracranial circulation of blood and fluid in man
07 p1047 N84-16788

Experimentally produced biped monkeys as a model for multipurpose research in gravity biology and physiology
07 p1047 N84-16789

USSR report: Space [JPRS-USP-84-001]
09 p1263 N84-18247

Manned flight chronology
09 p1263 N84-18248

PIRAMIG and PGN experiments
09 p1263 N84-18249

Cosmonaut training
09 p1264 N84-18250

Beregovoy on cosmonaut training
09 p1264 N84-18251

Spacecraft simulators
09 p1264 N84-18252

Commentary on Prognoz-9 satellite
09 p1264 N84-18253

Biomedical experiments on Soviet-French flight
09 p1264 N84-18254

Development of space botany experiments
09 p1264 N84-18255

Spacecraft command-measurement complex
09 p1264 N84-18256

Nelepo describes Intercosmos-Black Sea experiment
09 p1265 N84-18257

Cosmos-1500 SLR used for Arctic ice reconnaissance
09 p1265 N84-18258

Pravda scores US reaction to draft treaty on use of force in space
09 p1265 N84-18259

Comment on direct television broadcast by satellite
09 p1265 N84-18260

International space organizations
09 p1265 N84-18261

USSR report: Earth sciences [JPRS-UES-84-003]
11 p1669 N84-20891

Measures to improve anti-hail service
11 p1669 N84-20892

Dynamics of freely ascending convective jets initiated by active admixture
11 p1669 N84-20893

Measurements of coefficient of turbulent diffusion in middle-latitude strato- and mesosphere
11 p1670 N84-20894

Symposium on Ocean Monitoring held in Tallinn
11 p1670 N84-20895

Seismological measurements on ocean floor
11 p1670 N84-20896

Soviet investigations of Earth's gravity field
11 p1670 N84-20897

Determining density of upper mantle rocks
11 p1670 N84-20898

Influence of stratospheric aerosols forming during combustion of rocket fuels on Earth's albedo
11 p1670 N84-20899

Determining optical characteristics of stratospheric aerosol by multifrequency laser sounding method
11 p1670 N84-20900

Altitudinal change in continuous absorption in atmospheric transparency window 8-12 microns
11 p1670 N84-20901

Vertical temperature gradient in troposphere and its relationship to surface temperature according to empirical data
11 p1671 N84-20902

China report: Science and technology [JPRS-CST-84-009]
12 p1773 N84-21561

First Chinese-built fighter simulator described
12 p1773 N84-21562

USSR report: Space [JPRS-USP-84-002]
12 p1774 N84-21566

Lyakhov and Aleksandrov work with Pion experiment on Salyut-7
12 p1774 N84-21567

Materials study experiments with Elektrotopograf on Salyut-7
12 p1774 N84-21568

Cosmonauts evaluate color results from Elektrotopograf experiment
12 p1774 N84-21569

Results from first series of Elektrotopograf experiments
12 p1774 N84-21570

Discussion of cosmonaut EVA for solar battery installation
12 p1774 N84-21571

Details of cosmonauts' installation of solar batteries
12 p1774 N84-21572

Landing of Soyuz T-9 cosmonauts
12 p1774 N84-21573

Flight director Ryumin on achievements of Soyuz T-9 flight
12 p1774 N84-21574

Techniques and instruments for cosmonaut remote sensing
12 p1775 N84-21575

Astron satellite
12 p1775 N84-21576

Research continues with Intercosmos-Bolgariya-1300 satellite
12 p1775 N84-21577

Academician Barsukov interviewed on Venera results
12 p1775 N84-21578

Design modifications on Venera-15, -16
12 p1775 N84-21579

Development of Venera-15, -16 radars
12 p1775 N84-21580

First imagery from Venera-15, -16 shown
12 p1775 N84-21581

Fourier spectrometry research on Venera-15, -16
12 p1775 N84-21582

Forecasting satellite motion
12 p1775 N84-21583

Benefits from satellite programs cited
12 p1776 N84-21584

List of recent Soviet space launches
12 p1776 N84-21585

USSR report: Materials science and metallurgy [JPRS-UMS-84-001]
12 p1783 N84-21633

Microstructure of aluminum alloy in early stages of spalling
12 p1783 N84-21634

Fracture of aluminum in uniaxial and biaxial extension at 473-77 deg K
12 p1783 N84-21635

Features of physiochemical reaction in aluminum-boron composite material
12 p1783 N84-21636

Reinforcing materials based on magnesium oxide
12 p1783 N84-21637

Effect of concentrated energy streams on materials: Problems and prospects
12 p1784 N84-21638

Effect of electron irradiation on relaxation of tension in aluminum and aluminum alloys
12 p1784 N84-21639

Specifics of structure formation in nitrides synthesized by laser action on metals
12 p1784 N84-21640

Influence of aging in martensite state on mechanical properties of Cu-Al-Zn system Beta-alloy
12 p1784 N84-21641

Program for processing raw materials
12 p1784 N84-21642

Obtaining metallic powders by ultrasonic atomization of melts
12 p1785 N84-21643

Experimental study of powder production process using centrifugal atomization
12 p1785 N84-21644

Obtaining titanium carbide powder from titanium shavings
12 p1785 N84-21645

Nitration of intermetallide TiAl3
12 p1785 N84-21646

Strength of hard alloy elements of high pressure apparatus for synthesis of superhard materials
12 p1785 N84-21647

Interrelationship between temperature intervals of inverse martensite transformation and shape restoration in titanium nickelide-based alloys
12 p1786 N84-21648

Martensite transformation and shape memory in Ti0.5Ni0.5-xPd sub x system alloys
12 p1786 N84-21649

Fluctuations in chemical composition of titanium alloy Beta-solid solution in preseparation stage
12 p1786 N84-21650

New method and equipment for high-frequency welding of pipe
12 p1786 N84-21651

Welding with alloying and ultrasonic treatment with an ion beam
12 p1786 N84-21652

Overall mechanization of assembly and welding processes in the manufacture of ships' structures
12 p1787 N84-21653

Mechanization of assembly and welding operations in manufacture of ship hull structures
12 p1787 N84-21654

Introduction of productive welding and surfacing technological processes to production of nuclear powerplant equipment
12 p1787 N84-21655

Certain features of a vacuum magnetic-impulse welding process
12 p1787 N84-21656

Superfine wire made from new alloy
12 p1787 N84-21657

Laser screens of ZnSe produced by bridgeman method
12 p1787 N84-21658

Structural features of polycrystalline ZnSe and solid solutions ZnSa sub I-x S sub x
12 p1788 N84-21659

Influence of anisotropy and viscosity on propagation on waves in multilayer cylinders
12 p1788 N84-21660

Analysis of unsteady processes caused by nonaxisymmetrical loading of finite multilayer cylinders
12 p1788 N84-21661

Specifics of processes of deformation and microfracture of amorphous iron-based alloys
12 p1788 N84-21662

USSR Report: Life sciences, biomedical and behavioral sciences [JPRS-UBB-84-003]
12 p1864 N84-22145

USSR report: Space Biology and Aerospace Medicine, volume 18, no. 1, January - February 1984 [JPRS-USB-84-002]
12 p1864 N84-22149

Muscle tone changes in individuals of different age groups submitted to simulated weightlessness
12 p1864 N84-22150

Thirteenth Gagarin Conference
12 p1865 N84-22151

East Europe report: Scientific affairs [JPRS-ESA-84-010]
12 p1897 N84-22356

Concerted effort for nationwide computer literacy
12 p1897 N84-22357

Fiber-optics symposium, scientific agreement describe
12 p1897 N84-22358
USSR report: Engineering and equipment
[JPRS-UEQ-84-004] 13 p1967 N84-22772
Feasibility anlysis of novel technological principles of producing multicomponent mechanisms
13 p1968 N84-22773
Dynamic stifness of closed gas-static bearing with regulator 13 p1968 N84-22774
Improvement of dynamic characteristics of gas-static bearings 13 p1968 N84-22775
Controller for the electro-optical shutter of a dual pulse laser 13 p1968 N84-22776
Procedure for wall temperature measurement in a metal vapor laser 13 p1968 N84-22777
Hollow cathode cell for pulsed lasers using metal vapors and their chemical compounds
13 p1968 N84-22778
Utilizing light focusing by gas discharge medium for stabilization of emission power of He-Ne laser at wavelength of 6401 angstroms
13 p1969 N84-22779
Experience with development of sealed linear waveguide electron accelerators 13 p1969 N84-22780
Television system for monitoring target position in laser thermonuclear fusion experiments
13 p1969 N84-22781
Miniaturized pulsed CO2 laser with sealed electron source 13 p1969 N84-22782
Central burst of simultaneously rotating and gravitating body 13 p1969 N84-22783
Separation flow past bodies with fixed separation sites
13 p1970 N84-22784
Discharge of ideal gas into vacuum
13 p1970 N84-22785
More precise numerical simulation of transsonic flow through passages in turbomachines
13 p1970 N84-22786
Effect of rotation on thermal state of runner blade through effect on heat transfer on coolant side
13 p1970 N84-22787
Thermal characteristics of plasma reactors with cylindrical and conical multijet mixing chambers
13 p1970 N84-22788
Effect of hydromechanical inertia forces on stability of cylindrical hydrodynamic bearing
13 p1971 N84-22789
Exact solution to problem of interaction between wedge moving at supersonic velocity and interface of two gaseous media 13 p1971 N84-22790
Theory of hypersonic three-dimensional flow of nonsteady gas stream with relaxation past thin wing with arbitrary aspect ratio 13 p1971 N84-22791
Excitation of Tollmin-Schlichting waves in boundary layer at vibrating surface of infinite-span sweptback wing
13 p1971 N84-22792
Calculation of apparent masses in blade ring
13 p1971 N84-22793
Interaction of unsteady spatial boundary layer with hypersonic flow near rapidly heated portion of surface
13 p1971 N84-22794
Hypersonic flow around flat body in case of intense radiative heat exchange 13 p1972 N84-22795
Transonic flow around protruding corner with free streamline 13 p1972 N84-22796
Wave drag of elongated astroid bodies at moderate supersonic flight velocities 13 p1972 N84-22797
Study of large viscoplastic strains in cylindrical shells by method of magnetic-pulse loading
13 p1972 N84-22798
Estimation of local stress intensity in flanged thin-wall shell structures under heavy thermal load
13 p1972 N84-22799
Stressed-strained state of flanged shells under heavy thermal load beyond elastic limit
13 p1972 N84-22800
Plane motion of solid body on rough surface of annular bearing rotating about its axis perpendicular to plane of motion 13 p1973 N84-22801
System for torque control of unbalanced rotor during passage through resonance 13 p1973 N84-22802
Automatic elimination of static unbalance of rotor in anisotropic bearings 13 p1973 N84-22803
Approach to solving problem of acoustic wave diffraction by elastic shell 13 p1973 N84-22804
Solving statics problems of thick-walled cylindrical shells with loose contact between layers
13 p1973 N84-22805
Apparatus for certification of angular-displacement transducers 13 p1973 N84-22806
Measuring roughness of ultrasmooth surfaces by reflectometric method 13 p1974 N84-22807
Balancing of flexible rotors with simultaneous precise determination of influencing factors
13 p1974 N84-22808
West Europe report: Science and technology
[JPRS-WST-84-011] 13 p2038 N84-23224
Qualities of SEP ceramic-ceramic Cerasep composites
13 p2038 N84-23225
French ONERA acquires U.S. supercomputer for research 13 p2038 N84-23226
Thomson semiconductors bipolar IC strategy to 1986
13 p2039 N84-23227
USSR report: Science and technology policy
[JPRS-UST-84-004] 13 p2064 N84-23387
Incentives for new production discussed
13 p2064 N84-23388
Use of economic mechanisms in managing scientific and technical progress 13 p2064 N84-23389
Computer developments at Institute of Automation and Electrometry described 13 p2065 N84-23390
USSR report: Science and technology policy
[JPRS-UST-84-007] 13 p2065 N84-23391
Technical and economic indicators for industrial technological institutes 13 p2065 N84-23392
Research in man-machine interaction discussed
13 p2065 N84-23393
USSR report: Science and technology policy
[JPRS-UST-84-005] 13 p2065 N84-23394
Prerequisites for scientific-technical progress enumerated 13 p2065 N84-23395
Problems of prompt adoption of new technology discussed 13 p2065 N84-23396
Landmarks of progress 13 p2065 N84-23397
USSR report: Transportation
[JPRS-UTR-84-004] 14 p2093 N84-23551
Ministry official on improving all-weather aviation capabilities 14 p2093 N84-23552
Legal expert expounds on new civil air code
14 p2093 N84-23553
Ilyushin design bureau achievements profiled
14 p2093 N84-23554
USSR report: Political and sociological affairs, no. 1389. Chapters from Brezhnev's Reminiscences
[JPRS-83124] 14 p2112 N84-23658
Cosmic October 14 p2112 N84-23659
West Europe report: Science and technology
[JPRS-WST-84-013] 14 p2118 N84-23694
Britain's ICI develops new easy-to-shape composites
14 p2118 N84-23695
Swedish activities in new ceramic materials, processes 14 p2119 N84-23696
East Europe report: Science and technology
[JPRS-ESA-84-012] 14 p2133 N84-23784
Methanol viewed as alternative to gasoline
14 p2133 N84-23785
West Europe report: Science and technology
[JPRS-WST-84-001] 14 p2135 N84-23799
Saab claims world's most modern engine-assembly plant 14 p2135 N84-23800
Volvo LCP: New materials, production methods
14 p2136 N84-23801
East Europe report: Scientific affairs
[JPRS-ESA-84-009] 14 p2136 N84-23802
New developments in science, technology described. Specialized GEO-20 minicomputer system
14 p2136 N84-23803
New integrated circuit technology
14 p2136 N84-23804
First infrared radiation detector
14 p2136 N84-23805
New acid-proof protective coating
14 p2136 N84-23806
USSR report: Machine tools and metalworking equipment
[JPRS-UMM-84-008] 14 p2155 N84-23913
Industry urged to increase output of NC machine tool, robotics 14 p2155 N84-23914
Industry official on progress in Soviet robotics program
14 p2155 N84-23915
Use of robots in Estonian auto, machine tool industries viewed 14 p2155 N84-23916
East Europe report: Scientific affairs
[JPRS-ESA-84-008] 14 p2174 N84-24020
Article examines presence of KR-85 in atmosphere
14 p2174 N84-24021
Measurements concerning increase of atmospheric radiokrypton content 14 p2174 N84-24022
Measurements of atmospheric Kr-85 concentration at ATOMKI from 1966 to 1977 14 p2174 N84-24023
USSR report: Human resources
[JPRS-UHR-84-009] 14 p2187 N84-24103
Robotics impact on labor productivity examined
14 p2187 N84-24104
USSR report: Machine tools and metalworking equipment
[JPRS-UMM-84-009] 14 p2188 N84-24108
Resistance to robots in Soviet metallurgical plants noted 14 p2188 N84-24109
Impact of Latvian Robotics Institute on industry modernization 14 p2188 N84-24110
Belorussia's industry robotization program discussed
14 p2188 N84-24111
Level of robotization of Kazakhstan industry viewed
14 p2188 N84-24112
Control algorithms of Soviet HCS Rusalka for robots analyzed 14 p2188 N84-24113
USSR report. Life sciences: Biomedical and behavioral sciences
[JPRS-UBB-84-007] 14 p2250 N84-24515
Uracil and uridine photolysis on lunar soil
14 p2250 N84-24516
Contributions of space medicine to medical research
14 p2251 N84-24517
Effects of lunar soil and metal oxides on thermal and radiochemical stability of amino acids
14 p2251 N84-24518
Worldwide report: Telecommunications policy, research and development
[JPRS-TTP-84-005] 15 p2327 N84-24971
International law gives states right to jam foreign radio broadcasts 15 p2327 N84-24972
USSR report: Space Biology and Aerospace Medicine, volume 18, no. 2, March - April 1984
[JPRS-USB-84-004] 15 p2374 N84-25247
Some aspects of dosimetry in studies of biological effects of nonionizing electromagnetic radiation
15 p2375 N84-25248
Main results of medical studies on Salyut-6--Soyuz program 15 p2375 N84-25249
Blood plasma amino acid levels in cosmonauts before and after 175-day mission aboard Salyut-6
15 p2375 N84-25250
Evaluation of changes in human axial skeletal bone structures during long-term spaceflights
15 p2375 N84-25251
Study of erythrocyte adhesion in cosmonauts
15 p2375 N84-25252
Sanitary and hygienic features of cabin environment in Salyut-7 orbital station 15 p2375 N84-25253
Dynamics of changes in metabolic and endocrine processes in helicopter crews during commercial flights
15 p2375 N84-25254
Choice of psychophysiological criterion to assess whole-body low-frequency vibration
15 p2376 N84-25255
Evaluation of some hemodynamic parameters of pilots during flights 15 p2376 N84-25256
Some psychological consequences of prolonged social isolation 15 p2376 N84-25257
Adaptive effects of repeated immersion on man
15 p2376 N84-25258
Circadian rhythm of human heart rate during antiorthostatic tests 15 p2376 N84-25259
Effect of working in two shifts on circadian rhythm of heart rate 15 p2376 N84-25260
Efficacy of conditioning animals to hypoxia during sleep 15 p2377 N84-25261
Morphological study of primate muscle fibers and microcirculation during head-down hypokinesia
15 p2377 N84-25262
Structural distinctions of thyroid C cells and parathyroid glands of primates during head-down hypokinesia
15 p2377 N84-25263
Method of determining intensity of elimination of microorganisms from human upper respiratory tract
15 p2377 N84-25264
Oxidative enzyme activity in rat blood plasma and subcellular fraction of liver following flight aboard Cosmos-936 biosatellite 15 p2377 N84-25265
Effect of centrifuging on survival of early larvae of common frogs 15 p2377 N84-25266
Nucleic acid content of canine liver during long-term experimental hypokinesia 15 p2377 N84-25267
Influence of exam stress on cardiac function of students differing in level of physical activity
15 p2378 N84-25268
Mouse adrenal corticosterone content during prolonged exposure to high-intensity stationary magnetic field
15 p2378 N84-25269
Review of book on space radiobiology
15 p2378 N84-25270
New book on metabolism under hypodynamic conditions 15 p2378 N84-25271
USSR report: Transportation
[JPRS-UTR-84-016] 17 p2598 N84-26652
Achievements of Kamov helicopter design bureau
17 p2598 N84-26653
USSR report: Electronics and electrical engineering
[JPRS-UEE-84-007] 17 p2630 N84-26821
Algorithms of adaptive Markov filtration of noisy speech signals 17 p2630 N84-26822
Structural function of lunar relief according to radar data 17 p2630 N84-26823
Loss function used in optimization of array of coupled tracking radioelectronic systems
17 p2630 N84-26824

Optimization of two-coordinate surface radar station by combination of technical and economic indices
17 p2630 N84-26825
Synthesis of devices for optimum processing of signals in low-altitude radio altimeter 17 p2630 N84-26826
Stable heterodyning system in RT-22 radio telescope for millimetric-wave spectroscopy
17 p2630 N84-26827
Collective mode of evolution of plasma produced by optical breakdown in aerosol medium
17 p2631 N84-26828
On the possibilities of single-antenna ionosphere sounding 17 p2631 N84-26829
Electrodynamic analysis of active wave-guide slot line based on GaAs 17 p2631 N84-26830
On the problem of cylindrical array radiation through inhomogeneous dielectric layer
17 p2631 N84-26831
Concerning Q of a cylindrical dielectric resonator screened by a waveguide 17 p2631 N84-26832
Trajectories of radio waves in linear layer with isometric inhomogeneities 17 p2631 N84-26833
Statistics of field of multistage phased antenna array
17 p2632 N84-26834
Detection of space-time signal with scattering from background of isotropic noise field
17 p2632 N84-26835
Radiochannel with curved antenna utilizing three-dimensional excitation 17 p2632 N84-26836
Characteristic faults of input stabilizing and correcting equipment in television transmitting stations
17 p2632 N84-26837
Method of flicker suppression in television image
17 p2632 N84-26838
Dispersion of sequential detection time for signals submerged in autoregressional interference
17 p2632 N84-26839
Analysis of operation of frequency synthesizer of television receiver with micro-electronic computer in a control circuit 17 p2632 N84-26840
Requirements to be met by parameters of high-definition television systems for cinematography
17 p2633 N84-26841
How to check line channel of IKM-15 digital pulse-code-modulation transmission system
17 p2633 N84-26842
Noise of 1/f form in polycrystalline aluminum films
17 p2633 N84-26843
Efficiency comparison of quasi-optimum direction finding algorithms used for point sources of signals
17 p2633 N84-26844
Evaluation of characteristics of system of space-time processing of signals by statistical simulation method
17 p2633 N84-26845
Concerning criteria for evaluation of amplitude-frequency characteristic of two-signal selectivity of radio reception channel 17 p2633 N84-26846
Investigation of asynchronous detector with self-pumping based on Gunn diode
17 p2633 N84-26847
Synthesis of frequency spectra based on use of multilevel pulse sequences 17 p2634 N84-26848
Method of analysis of combination oscillations of arbitrary nonlinear system for spectrum conversion
17 p2634 N84-26849
Investigation of duration of multichannel sequential signal detection procedure 17 p2634 N84-26850
Time characteristics of search for compound signals with respect to delay 17 p2634 N84-26851
Noise immunity of optical lines with imprecise levels of signal and noise 17 p2634 N84-26852
Procedure for calculation of stages with operational direct-current amplifiers 17 p2634 N84-26853
Microprocessor parallel processing for digital filters
17 p2634 N84-26854
Improvement in analog error autocorrection circuit
17 p2634 N84-26855
Peculiarities of minimization of mixer noise factor
17 p2635 N84-26856
Criteria for accuracy of rotary transformers
17 p2635 N84-26857
Cross section for absorption of partly shielded dielectric sphere 17 p2635 N84-26858
Action of external interference-carrying field on nonuniform multiwire shield 17 p2635 N84-26859
Effect of multifold trapping of carriers on transient photocurrent in amorphous semiconductors
17 p2635 N84-26860
Variation of carrier concentration caused by band structure reconstruction in tellurium and tin-doped Al(x)Ga(1-x)As solid solutions 17 p2636 N84-26861
The 1/f noise in conditions of high geometrical magnetoresistances 17 p2636 N84-26862
Nonlinear transmission of laser radiation by ZnTe monocrystals at helium temperatures
17 p2636 N84-26863
Complemented Scharfetter-Gummel condition
17 p2636 N84-26864
Coupling of current and frequency-modulated noise in Gunn oscillators 17 p2636 N84-26865
Equipment and results of test of cooler for electro-optical transducer 17 p2636 N84-26866
Pulse and interval distributor with sensor control
17 p2637 N84-26867
Assurance of unity of tests of semiconductor products
17 p2637 N84-26868
Evaluation of precision of triangulation method of determining coordinates 17 p2637 N84-26869
Use of fiber light guides for evaluation of precision characteristics of pulsed laser range finders
17 p2637 N84-26870
Effect of certain geometrical parameters on metrological characteristics of multichamber black body
17 p2637 N84-26871
Photoelectric master means of measurement of energy and maximum power of pulsed lasers
17 p2637 N84-26872
Precision photometer for measurement of low levels of maximum power of pulses laser radiation
17 p2638 N84-26873
Measurement of flux density of sound energy
17 p2638 N84-26874
Optimum time of day and night for measuring distances in turbulent atmosphere with optical range finders (case of high rise of laser beam above ground surfaces)
17 p2638 N84-26875
Use of microprocessor techniques in frequency measuring organs 17 p2638 N84-26876
Ellipsoidal magnetostatic shield
17 p2638 N84-26877
Two-stage regenerative microwave amplifiers with reduced nonlinear distortions 17 p2638 N84-26878
Phase inverter based on dielectric stripline waveguide with mobile metal plate 17 p2638 N84-26879
Automatic measurement of bandwidth of microwave resonators 17 p2638 N84-26880
Transformers with voltage regulation for electric supply networks 17 p2639 N84-26881
Stability of fuses under cyclic load
17 p2639 N84-26882
Investigation of plane phased array of piezoelectric transducers with one-lobe directivity diagram
17 p2639 N84-26883
West Europe report: Science and technology [JPRS-WST-84-018] 17 p2640 N84-26888
Second Ariane launch pad at Kourou, Belgian participation 17 p2640 N84-26889
Sweden's STU proposes funding for metals, ceramics approach 17 p2640 N84-26890
New material, process spins off from Volvo LCP 2000 program 17 p2640 N84-26891
Siemens plans 256 K memory chip to catch up with Japan 17 p2640 N84-26892
Siemens strategy includes DM 1 billion for submicrons IC's 17 p2640 N84-26893
Description of FRG basic research in X-ray lithography
17 p2640 N84-26894
USSR report: Engineering and equipment [JPRS-UEQ-84-003] 17 p2640 N84-26895
Economics of installation of solar heating plants
17 p2641 N84-26896
Improvement of surface planing with diamond tool
17 p2641 N84-26897
Utilization of selective mass transfer for increasing performance capability of hinges subject to heavy loads
17 p2641 N84-26898
Novel method of assembling large multicomponent machine sets 17 p2641 N84-26899
Novel technological solutions to treatment of threads in micrometric measuring tools
17 p2641 N84-26900
Dependence of realizability of selective mass transfer during friction of aluminum bronzes against steel on composition of lubricating fluid 17 p2641 N84-26901
Dependence of realizability of selective mass transfer during friction of tin bronzes against steel in hydraulic system mechanisms on concentration of alloying elements 17 p2642 N84-26902
Estimation of wear rate during selective mass transfer
17 p2642 N84-26903
Zero wear (selective mass transfer): New step toward higher wear resistance of machine parts
17 p2642 N84-26904
Procedure for determination of damping capability of turbomachine blades subjected to heat and centrifugal forces 17 p2642 N84-26905
Estimating thermal fatigue strength of prototype blades in gas turbine engine 17 p2642 N84-26906
Determining orientation of solid object
17 p2642 N84-26907
Equations in Rodrigues-Hamilton parameters for heavy solid body rotating about fixed point
17 p2643 N84-26908
Equations of small oscillations for inertial navigation system taking into account Earth's ellipsoidality
17 p2643 N84-26909
Mechanics of rigid gyroscopic systems
17 p2643 N84-26910
Control of quadriaxial cardan suspension
17 p2643 N84-26911
Method of deriving equations of motion for dynamically adjustable gyroscope 17 p2643 N84-26912
Probabilistic characteristics of perturbation torques in gyroscopes with electrostatic suspension
17 p2643 N84-26913
Analytical description of hypersonic gas jet discharged into motionless medium or into supersonic companion stream 17 p2644 N84-26914
Aerodynamic and thermal characteristics of 3-dimensional stellate bodies in rarefied gas
17 p2644 N84-26915
Mathematical modeling of transient separation flow around circular cylinder 17 p2644 N84-26916
Interaction of jet discharged from container and opposing supersonic stream of rarefied gas
17 p2644 N84-26917
Method of calculating strong viscous interaction at delta wing 17 p2644 N84-26918
Mixed boundary-value problems pertaining to profile of supersonic nozzles and channels
17 p2645 N84-26919
Flow of stellar wind past X-radiation source
17 p2645 N84-26920
Logarithmic decrement of oscillations of low-viscosity fluid rotating inside cylindrical vessel
17 p2645 N84-26921
Interaction of air shock waves and porous shield
17 p2645 N84-26922
Aerodynamics of hovering 17 p2645 N84-26923
Asymptotic theory of separation flow
17 p2646 N84-26924
Effect of injection into boundary layer on flow of supersonic stream past oscillating cone
17 p2646 N84-26925
Effect of nonhomogeneity on nonlinear stabilization of acoustic vibrations in heat emitting medium within bounded volume 17 p2646 N84-26926
Vortical-potential flow of ideal fluid along plane with depression 17 p2646 N84-26927
Supersonic three-dimensional jet flow in channel
17 p2646 N84-26928
Separation flow of transsonic water stream past circular cone 17 p2647 N84-26929
Immersion of disk in compressible fluid at angle to free surface 17 p2647 N84-26930
Magnetohydrodynamic flow past nonconducting wedge 17 p2647 N84-26931
Regular reflection of strong shock wave by wedge surface 17 p2647 N84-26932
Separation flow at concave conical wings
17 p2647 N84-26933
Passage of waves in fluids through damping interlayers and their interaction with barrier
17 p2647 N84-26934
Effect of acoustic perturbations on flow structure in boundary layer with unfavorable pressure gradient
17 p2648 N84-26935
Three-dimensional turbulent boundary layers at bielliptical bodies in stream of compressible gas at some angle of attack 17 p2648 N84-26936
Interaction of turbulent boundary layer and upward density jump at transsonic stream velocities
17 p2648 N84-26937
Turbulent boundary layer at plate with suction at various angles 17 p2648 N84-26938
Turbulent flow of aerosol in rotating channels of turbomachines 17 p2649 N84-26939
Vibrations of and radiation from shell of revolution under hoop load 17 p2649 N84-26940
Evaluation of energy characteristics of bipedal walking and running by model analysis 17 p2649 N84-26941
Treatment of walking as controllable self-excited oscillations 17 p2649 N84-26942
Subharmonic vibrations of rotor mounted in rolling bearings 17 p2649 N84-26943
Stability of steady motion of planar body in field of central force 17 p2649 N84-26944
Stability of periodic oscillations of almost axisymmetric satellite in plane of elliptical orbit
17 p2650 N84-26945
Integrable equations of motion by inertia for two bodies coupled through spherical hinge
17 p2650 N84-26946
Experimental study of behavior of cylindrical shells with lumped masses under dynamic external pressure
17 p2650 N84-26947

Effect of pressure wave on cylindrical sandwich shell immersed in compressible fluid
17 p2650 N84-26948
Effect of elastically suspended masses on stability of elastic panels in supersonic stream
17 p2650 N84-26949
Three-dimensional stressed state of longitudinally corrugated elastic cylinders 17 p2651 N84-26950
Elastoplastic double-wall shells under intricate nonisothermal load 17 p2651 N84-26951
Stressed and strained state of cylindrical shells reinforced with hoops 17 p2651 N84-26952
Residual stresses in long double-layer cylinder under nonsteady cooling 17 p2651 N84-26953
Orientation and calibration of three-dimensional tachometer with aid of available angle data
17 p2651 N84-26954
USSR report: Earth sciences [JPRS-UES-84-004] 17 p2696 N84-27177
Climate modeling at Pacific Ocean Institute of Geography 17 p2697 N84-27178
Evaluation of probabilities of large deviations of climatic characteristics from present levels
17 p2697 N84-27179
Present-day status of investigations of anthropogenic influence on atmospheric ozone
17 p2697 N84-27180
Modeling seasonal evolution of thermal regime of ocean-atmosphere system 17 p2697 N84-27181
Turbulent pulsations of horizontal and vertical wind velocity components in clouds of different genera
17 p2697 N84-27182
Density, specific humidity and water vapor elasticity above condensation level 17 p2697 N84-27183
Radiative heat exchange in atmosphere disturbed by volcanic eruption 17 p2698 N84-27184
Self-similar regimes of nonstationary turbulent convection 17 p2698 N84-27185
Trapped topographic waves in Baltic Sea
17 p2698 N84-27186
Generalized spectra of slightly nonlinear Rossby waves 17 p2698 N84-27187
Seasonal variability of surface currents in world ocean
17 p2698 N84-27188
Fractionation of chemical elements at ocean-atmosphere interface 17 p2698 N84-27189
Influence of wind on rate of gas exchange through ocean-atmosphere interface 17 p2699 N84-27190
Fluctuation of velocity distribution under influence of suspended particles on turbulence in bottom current
17 p2699 N84-27191
Some characteristics of radiation field in medium with fluctuating optical parameters 17 p2699 N84-27192
Shelf waves in presence of currents and stability of boundary currents 17 p2699 N84-27193
Asymptotic form of solution of problem of seasonal evolution of thermal regime in ocean
17 p2699 N84-27194
Forming of upper homogeneous layer in Mediterranean basin 17 p2699 N84-27195
Cross-spectral analysis of atmospheric pressure microfluctuations and low-frequency sea level changes
17 p2699 N84-27196
Supercritical regimes in Rossby wave propagation
17 p2700 N84-27197
Quasibiennial cycle of thermodynamic atmosphere-ocean interaction in North Atlantic
17 p2700 N84-27198
Magnetohydrodynamic generator helps predict earthquakes 17 p2700 N84-27199
Descriptive statistical model of earthquake focal radiation and its application in evaluating short-period strong movement 17 p2700 N84-27200
Uniqueness of inverse problem in gravimetry for homogeneous polyhedrons 17 p2700 N84-27201
Solution of direct problem in gravimetry on spherical Earth 17 p2700 N84-27202
Seismicity as stochastic process with physical parameters 17 p2700 N84-27203
Deep geophysical investigations in zones of present-day active volcanism 17 p2701 N84-27204
Local gravity anomalies and crustal density inhomogeneities in southern Kurile Islands
17 p2701 N84-27205
Geophysical and tectonic characteristics of Mongolian-Okhotsk seismic zone
17 p2701 N84-27206
Seismic model of Earth's crust in southern Sea of Okhotsk region and some results of its geological inerpretation 17 p2701 N84-27207
Dependence of velocity on depth determined from travel-time curves of refracted waves in randomly inhomogeneous media 17 p2701 N84-27208
Economical difference methods for solving direct problems in gravimetric and magnetic prospecting
17 p2702 N84-27209
Density inhomogeneities in upper mantle of eastern Indian Ocean 17 p2702 N84-27210
Ray trajectories in stochastic media with linear dependence of deterministic velocity component on depth 17 p2702 N84-27211
Spherical wave refraction with short distances of source from interface 17 p2702 N84-27212
Discrepancies in kinematic parameters of earthquakes according to observations by regional and world networks of stations 17 p2702 N84-27213
Excitation of spheroidal oscillations in viscoelastic Earth 17 p2702 N84-27214
Possible interpretation of discrepancy in results of absolute gravity determination at Sevres
17 p2703 N84-27215
Nature of 640-KM seismic boundary
17 p2703 N84-27216
New data on upper mantle literal inhomogeneities in western Eurasia 17 p2703 N84-27217
Shot waves in frozen ground
17 p2703 N84-27218
New variant of evaluation of predicted petroleum and as reserves on genetic basis 17 p2703 N84-27219
Optimum density structure of upper mantle along Japan - Shatskiy Rise - Emperor Sea mounts geotraverse
17 p2704 N84-27220
Allowance for geomagnetic field variations and tie-in of observations in highly precise aeromagnetic surveys
17 p2704 N84-27221
Determining parameters of radiating focus from amplitude spectra of body waves
17 p2704 N84-27222
Possible sources of irregular geomagnetic variations
17 p2704 N84-27223
Ionospheric effect of partial solar eclipse of 31 July 1981 17 p2704 N84-27224
Influence of electric fields on potential waves in Earth's magnetosphere 17 p2705 N84-27225
Uniqueness in plane inverse problems in gravimetry and magnetometry 17 p2705 N84-27226
Emission effects of memory in rocks
17 p2705 N84-27227
Hydrogeological and hydrometeorological precursors of Ashkhabad catastrophic earthquake
17 p2705 N84-27228
Method for evaluating parameters of magnetized object of great horizontal extent 17 p2705 N84-27229
Possibilities of studying inelastic properties and characteristics of medium inhomogeneity using spectra of scattered waves 17 p2706 N84-27230
Geoacoustic method for continuous monitoring of stressed-strained state of Earth's crust
17 p2706 N84-27231
Physical nature of geomagnetic microbays
17 p2706 N84-27232
Structure and direction of evolution of European tectonosphere according to geological and geophysical data 17 p2706 N84-27233
Modeling anisotropic properties of media with oriented fractures 17 p2706 N84-27234
Algorithm for determining coordinates of hypocenters of near earthquakes and seismic wave propagation velocity in layer 17 p2706 N84-27235
Influence of tropospheric aerosol on integral albedo of cloudy atmosphere. Underlying surface system
17 p2707 N84-27236
Influence of velocity shear on character of flow of incompressible stratified fluid around obstacle
17 p2707 N84-27237
Limiting ranges in atmospheric radioacoustic sounding
17 p2707 N84-27238
Movement mechanism of solitary synoptic eddies
17 p2707 N84-27239
Condensational variability of scattering phase function
17 p2707 N84-27240
Peculiarities in determining small contents of atmospheric moisture by surface radio thermal sounding methods 17 p2707 N84-27241
Drift movement of aerosol particles in field of atmospheric gravity waves 17 p2708 N84-27242
Asymptotic formulas for distribution moments in solution of radiation transfer equation in stochastic medium
17 p2708 N84-27243
Magnetic effect of quiet ring current
17 p2708 N84-27244
USSR Report: Life sciences biomedical and behavioral sciences [JPRS-UBB-84-013] 17 p2740 N84-27397
Physiological assessment of capacity for processing increasing amounts of visual information by human operators 17 p2740 N84-27398
Biofeedback methods and quality of operator's performance 17 p2740 N84-27399
Genetic control and phenotypic correction of cellular immune response to H-antigen of Salmonella typhimurium 17 p2740 N84-27400
Modelling of multi-signal immobilized immunogens
17 p2741 N84-27401
Lack of an effect of corpuscular vaccine against I phase Q-fever on persistence and reactivation of Coxiella burnetii infection in mouse and guinea pigs tissue
17 p2741 N84-27402
Use of radial hemolysis method in gel for detection of antibodies to Bunya virus Lednice (Turlock virus group)
17 p2741 N84-27403
Clinical-immunological spectrum of Leishmaniases
17 p2741 N84-27404
Relationship between cardiovascular system response and adrenocortical glucocorticoid function on exposure to diffuse, low-intensity helium-neon laser emission
17 p2741 N84-27405
Laser cell analyzer 17 p2741 N84-27406
Health education of population in conection with widespread use of laser radiation
17 p2742 N84-27407
Laser Doppler spectroscopy of biological objects
17 p2742 N84-27408
Activity of respiratory system during laser irradiation of brain structures 17 p2742 N84-27409
Allomonades: New group of vibrionaceae family microorganisms 17 p2742 N84-27410
Effect of decimeter waves on physical-chemical state of membranes, thymocyte chromatin and immunological reactivity of an organism 17 p2742 N84-27411
Change in spectrum of blood hormones under influence of centimeter range microwaves
17 p2742 N84-27412
Gene mutations, chromosome aberrations and survivability after X-ray irradiation of Chinese hamster cell culture under conditions of cysteamine protection
17 p2743 N84-27413
Possibilities of creating invariant man-machine systems 17 p2743 N84-27414
USSR report: Transportation [JPRS-UTR-84-005] 18 p2784 N84-27668
Designer, scientist on projected developments in aviation 18 p2784 N84-27669
Hungarian officials comment on performance of Soviet-built aircraft 18 p2784 N84-27670
Successful Arctic testing of KA-32 helicopter
18 p2784 N84-27671
New world records set by AN-72 transport
18 p2784 N84-27672
IL-76 used successfully for Arctic cargo air drops
18 p2784 N84-27673
USSR Report: Transportation [JPRS-UTR-84-009] 18 p2790 N84-27709
Antonov Bureau developing new STOL turbofan for use in far north 18 p2790 N84-27710
Status, future plans for Aeroflot's meteorological support 18 p2790 N84-27711
Process for renovating aircraft tires tested
18 p2790 N84-27712
USSR Report: Electronics and electrical engineering [JPRS-UEE-84-002] 18 p2822 N84-27915
Spectrum of phase fluctuations during probing of ionosphere 18 p2822 N84-27916
First All-Union Symposium on M.A.P.: Conclusion of report 18 p2822 N84-27917
Wavefront reversal in nonstationary medium with large-scale inhomogeneities description by operator equations 18 p2822 N84-27918
Scattering of electromagnetic waves at edge of semiinfinite dielectric layer embedded in ideally conducting half-space 18 p2822 N84-27919
Possibility of extending Kirchhoff's approximation to problems of wave diffraction by transparent nonhomogeneous bodies 18 p2822 N84-27920
Speckle statistics in radar images of sea surface obtained with horizontal polarization
18 p2823 N84-27921
Intensity fluctuations during specular reflection of light beams in turbulent atmosphere
18 p2823 N84-27922
Structure of quasi-hyperbolic stochasticity in inertial self-excited oscillator 18 p2823 N84-27923
High-sensitivity correlation receiver for radio interferometry 18 p2823 N84-27924
Standardization of terminology in field of ionizing radiations and their measurements
18 p2823 N84-27925
Inspection of products for reliability indicators
18 p2824 N84-27926
Automated inspection of analog-digital standard replacement components 18 p2824 N84-27927
Microprocessor devices for analog signal processing
18 p2824 N84-27928
Measurement of thickness of SiO/sub 2 insulation layers in silicon structures with dielectric insulation
18 p2824 N84-27929

Passage of strong electromagnetic pulse through semiconductor in external magnetic field
18 p2824 N84-27930
Persistant relaxation of excess charge carriers in epitaxial pure n-GaAs 18 p2824 N84-27931
Impact ionization in semiconductors by microwave field in the presence of an arbitrarily oriented constant magnetic field 18 p2825 N84-27932
Photoconductivity of alpha-Si-H in infrared range of spectrum 18 p2825 N84-27933
Effect of electric field on build-up and annealing of E5-centers in GaAs 18 p2825 N84-27934
Spectral dependence of magnetoresistivity in heterophase photoconductors based on CdSe
18 p2825 N84-27935
Dependence of properties of Josephson junctions at semiconductor surface on parameters of subsurface layer 18 p2825 N84-27936
Injection currents in GaAs triple crystals
18 p2825 N84-27937
Role of charged state in build-up and annealing of deep centers in GaAs irradiated by protons
18 p2825 N84-27938
High-resistance measuring standards of electrical resistance 18 p2826 N84-27939
Novelties in design of instruments for measuring high ac voltages 18 p2826 N84-27940
Digital phase meter 18 p2826 N84-27941
Amplitude-frequency method of measuring phase of reflection coefficient 18 p2826 N84-27942
Effect of laminated structure in materials based on complexes with charge transfer
18 p2826 N84-27943
Photographic characteristics of polymer composite including complex with charge transfer
18 p2826 N84-27944
Spherical heat radiation receiver with white target
18 p2827 N84-27945
East Europe Report: Scientific affairs [JPRS-ESA-84-004] 18 p2827 N84-27946
Microelectronic components development in seventh 5-year plan described 18 p2827 N84-27947
EMG 7177 programmable graphic calculator, control system 18 p2827 N84-27948
GD 80: Computer assisted device for engineers
18 p2827 N84-27949
Institute achievements in man-machine relations
18 p2827 N84-27950
West Europe report: Science and technology. FRG: Concept paper on microelectronics, communications technology [JPRS-WST-84-023] 18 p2835 N84-27996
USSR report: Earth sciences [JPRS-UES-84-005] 18 p2855 N84-28132
Weather modification technology shown at all-union conference 18 p2855 N84-28133
Socialist-bloc Conference on Climate Forecasting
18 p2856 N84-28134
methodological problems in evaluating and predicting water-ice resources in mountainous areas
18 p2856 N84-28135
New facts concerning dessication of Central Asia
18 p2856 N84-28136
Analytical model of latitudinal variation of dispersion and spectra of fluctuations of zonally averaged surface temperature 18 p2856 N84-28137
Temperature response of cryosphere area in northern hemisphere 18 p2856 N84-28138
Computerized hydrologic research complex 'Gidrozond' 18 p2856 N84-28139
Data bank on Pacific and Indian Oceans
18 p2856 N84-28140
Underwater laser anemometer for measuring ocean currents 18 p2857 N84-28141
Variability of vertical distributions of sea water temperature and light extinction index in section across Mascarene Ridge 18 p2857 N84-28142
Development of upper mixed ocean layer with increase in stability and in presence of wind
18 p2857 N84-28143
Subalkaline basaltic magmatism of active ocean-continent transition zones
18 p2857 N84-28144
Peridotites of the Khizen Fault (Southeastern Pacific Ocean) 18 p2857 N84-28145
Evaluating parameters of vertical exchange of ocean waters by radioisotopic methods
18 p2858 N84-28146
Density model of upper mantle under oceans
18 p2858 N84-28147
Prognostic relationships for surface temperature anomalies in northern part of Pacific Ocean
18 p2858 N84-28148
Changes in relative instantaneous spreading rates in the Indian Ocean 18 p2858 N84-28149
Tectonic and magmatic rock of central Pacific Ocean
18 p2858 N84-28150
Formation and distribution of kimberlites in the eastern Siberian platform in connection with deep structure specifics 18 p2858 N84-28151
Features of sound penetration from air into water
18 p2858 N84-28152
Modeling kinetics of aerodisperse phase in ocean surface layer 18 p2859 N84-28153
Tsunami warning system discussed at seismologists' meeting 18 p2859 N84-28154
Diode-laser gas analyzer for geophysical studies
18 p2859 N84-28155
New book discusses normal geomagnetic field
18 p2859 N84-28156
Problems in seismic anisotropy of thin-layered media
18 p2859 N84-28157
Spectral approach to interpretation of electromagnetic anomalies in case of E-polarization
18 p2859 N84-28158
Separating normal and anomalous fields using measurements in limited area 18 p2859 N84-28159
Detailed study of Earth's crust in Baykal rift zone according to refracted waves data
18 p2860 N84-28160
Faults and nature of seismic discontinuities in continental crust section 18 p2860 N84-28161
Strong earthquake spatial-temporal correlations
18 p2860 N84-28162
Vertical movements and magnetic variations before earthquakes 18 p2860 N84-28163
New types of transient processes observed in electromagnetic sounding 18 p2860 N84-28164
Genetic types of geological bodies of sedimentary mantle (based on seismic profiling data)
18 p2861 N84-28165
Application of recurrent formulas for solving main geodetic problems 18 p2861 N84-28166
Gravity computations at low altitudes
18 p2861 N84-28167
Normal magnetic field maps for Caucasus region for epoch 1980 18 p2861 N84-28168
Solution of direct three-dimensional problems in gravimetry and magnetometry with arbitrary continuous laws of density and magnetization distribution
18 p2861 N84-28169
Interfering elastic wave components
18 p2862 N84-28170
Method for summing Gaussian beams in isotropic elasticity theory 18 p2862 N84-28171
Gravity field response to elastic deformations of Earth
18 p2862 N84-28172
Motion of virtual geomagnetic pole
18 p2862 N84-28173
Relationship between residual displacements, strains and tilts of Earth's surface and earthquake focus characteristics 18 p2862 N84-28174
Size distribution of fragments forming during solid body destruction 18 p2863 N84-28175
Characteristic rock dimensions and hierarchical properties of seismicity 18 p2863 N84-28176
Adiabatic structure in mantle transition zone
18 p2863 N84-28177
Two types of continental breakup
18 p2863 N84-28178
Specifics of development of long-term variations in anomalous geomagnetic field on Crimean peninsula
18 p2863 N84-28179
Some specifics of influence of pore pressure on physical properties of deformable rocks
18 p2864 N84-28180
Regional natural electric fields and their prospecting significance 18 p2864 N84-28181
Magnetometer for study of temperature variation of saturation magnetism of rock specimens
18 p2864 N84-28182
Aerosol chamber of Atmospheric Optics Institute
18 p2864 N84-28183
Spacecraft-aided aerial studies of atmosphere's electrostatic zones 18 p2864 N84-28184
Evaluations of coefficient of vertical exchange in lower thermosphere 18 p2864 N84-28185
Signal power during radioacoustic sounding of turbulent atmosphere 18 p2864 N84-28186
Well-developed convective cloud cover as source of internal waves 18 p2865 N84-28187
Comparison of qualitative and quantitative measurements of temperature turbulence with monostatic sodar 18 p2865 N84-28188
Wind velocity and temperature profiles in atmospheric surface layer for neutral and unstable stratification conditions 18 p2865 N84-28189
Hamiltonian representation of equations of hydrodynamics and its use in describing wave movements in currents with shear 18 p2865 N84-28190
Quasigeostrophic movements in barotropic and baroclinic fluid 18 p2865 N84-28191
USSR report: Life sciences, biomedical and behavioral sciences [JPRS-UBB-84-011] 18 p2894 N84-28364
Physiological responsiveness of operators in relation to work and homeostatic disorders
18 p2894 N84-28365
Functional status in relation to work, performance and health 18 p2895 N84-28366
Electrosleep in prophylaxis of psychoneural stress and recovery of mental performance in operators
18 p2895 N84-28367
EEG informational content in prediction of work performance 18 p2895 N84-28368
Functional status of operators and its systemic and technical determinants 18 p2895 N84-28369
Problems and perspectives of Alpine work physiology
18 p2895 N84-28370
Effects of long-term exposure to low positive temperatures on cold-induced vasodilation
18 p2896 N84-28371
Circulatory dynamics in expeditionary tour of duty
18 p2896 N84-28372
Occupational efficiency in relation to psychophysiological characteristics
18 p2896 N84-28373
Individual responses to combined heat and physical load 18 p2896 N84-28374
Effects of adaptation to hot climate on thermoreception 18 p2896 N84-28375
Effects of natural light conditions on biorhythms in polar dwellers 18 p2897 N84-28376
Variations in EEG in relation to brain functional status
18 p2897 N84-28377
Biofeedback regulation of pulmonary ventilation
18 p2897 N84-28378
Spatiotemporal structure of quanta of industrial work and its physiological basis 18 p2897 N84-28379
Effects of short-term heat adaptation on certain indicators of physical capacity for work
18 p2897 N84-28380
Criteria of human cold adaptation
18 p2897 N84-28381
Psychology and study of human factor in management
18 p2898 N84-28382
Structure of formal-dynamic properties of human psyche in signal systems interaction 18 p2898 N84-28383
Response of cardiac rhythm to information load
18 p2898 N84-28384
Influence of level of adaptation to light upon estimation of brightness 18 p2898 N84-28385
Role of feedback in regulation of ideomotor movements 18 p2898 N84-28386
Perception of binaural temporal shifts
18 p2898 N84-28387
East Europe Report: Science and technology. Czechoslovakia: Computer technology examined [JPRS-ESA-84-022] 18 p2918 N84-28499
Selections on computer technology in CSSR
18 p2918 N84-28500
Tesla computer semiconductor memory
18 p2918 N84-28501
GDR robotron office computers
18 p2918 N84-28502
Acoustic surface wave applications
18 p2918 N84-28503
New integrated circuit casing
18 p2918 N84-28504
Exhibit of new technology 18 p2918 N84-28505
Electronics seminar contributions enumerated
18 p2918 N84-28506
VARS: Multilevel automated control system
18 p2918 N84-28507
ELORG permanent exhibition
18 p2919 N84-28508
Robotron image processing systems
18 p2919 N84-28509
Robotron remote processing systems
18 p2919 N84-28510
Robotron digitalization unit 18 p2919 N84-28511
USSR report: Space [JPRS-USP-84-003] 19 p2970 N84-28823
Manned flight chronology 19 p2970 N84-28824
Comments on goals of 'Soyuz T-10' flight
19 p2970 N84-28825
Medical research program of 'Soyuz T-10' crew
19 p2971 N84-28826
Goals of cosmonaut At'kov's medical studies on 'Salyut-7' 19 p2971 N84-28827
Soyuz T-10 docks with 'Salyut-7'
19 p2971 N84-28828
Changes in 'Soyuz T-10' crew work schedule
19 p2971 N84-28829
Cosmonauts begin research program on 'Salyut-7'
19 p2971 N84-28830

Docking of 'Progress-19', mapping and survey work
19 p2971 N84-28831
Comet studies, medical research on 'Salyut-7'
19 p2971 N84-28832
Feoktistov: Space program ready for manufacturing shops in orbit 19 p2971 N84-28833
Deputy flight director Blagov on 211-day flight of Berezovoy and Lebedev 19 p2971 N84-28834
Food specialists discuss cosmonaut diet
19 p2971 N84-28835
Feoktistov recounts planning for Gagarin spaceflight
19 p2971 N84-28836
Night landing of 'Soyuz-23' cosmonauts in Lake Tengiz recounted 19 p2972 N84-28837
Research on 'Prognoz-9' and 'Astron' satellites
19 p2972 N84-28838
Development of space holography
19 p2972 N84-28839
Joint Soviet-American project for detection of gravitational waves 19 p2972 N84-28840
Numerical-analytical method for computing movement of 12-hour artificial earth satellites in near-circular orbits
19 p2972 N84-28841
Space in Keplerian orbits 19 p2972 N84-28842
Numeric extension of periodic solutions to Lagrangian system with two degrees of freedom
19 p2972 N84-28843
Flights to asteroids with space vehicle maneuvers near Venus, Earth, Mars and Jupiter
19 p2973 N84-28844
Guaranteed accuracy in determining orbit of Halley's Comet 19 p2973 N84-28845
Diffuse auroral zone. Part 7: Dynamics of equatorial boundary in field of diffuse electron spill in evening sector 19 p2973 N84-28846
Further analysis of plasma bursts in high-latitude boundary layer of earth 19 p2973 N84-28847
Ion kinetics, minor neutral and excited components in D-region with high level of ionization
19 p2973 N84-28848
Cutoff for solar cosmic rays in Earth's magnetosphere in magnetically quiet periods 19 p2973 N84-28849
Ion makeup in upper atmosphere affected by source of X-ray radiation 19 p2973 N84-28850
Quasicircular equatorial orbits of artificial earth satellites with allowance for light pressure
19 p2974 N84-28851
Formulation of theory of artificial earth satellite motion by Hori-Deprit method 19 p2974 N84-28852
Three-element radiointerferometer with very long baselines 19 p2974 N84-28853
Localization of X-ray bright spots relative to cells in solar chromospheric grid 19 p2974 N84-28854
Venera-15, -16 radar imagery of Venus
19 p2974 N84-28855
Processing of 'Venera-15, -16' radar mapping imagery
19 p2974 N84-28856
Roughness of surface of Venus from bistatic radar data 19 p2975 N84-28857
Unbalanced infrared radiation and natural laser effect in atmospheres of Venus and Mars
19 p2975 N84-28858
Interpretation of gravitational anomalies on Mars, Venus and Earth 19 p2975 N84-28859
Generalized model of lunar gravitational field
19 p2975 N84-28860
Optical studies of moon rock samples at various degrees of maturity 19 p2975 N84-28861
Distribution of craters of various age on Martian surface 19 p2976 N84-28862
Feasibility of formation of discrete dust belts around Earth 19 p2976 N84-28863
Earth's dust envelop 19 p2976 N84-28864
Space biology and medicine: Yesterday and today
19 p2976 N84-28865
Development of equipment for 'Cosmos-1514' biosatellite 19 p2976 N84-28866
Results from study of Earth resources from space
19 p2976 N84-28867
Investigating spatial distribution of phytoplankton in Lake Baykal by optical methods 19 p2976 N84-28868
Deep crustal structure on space images
19 p2977 N84-28869
Sensing of factors involved in development of exogenous processes on space photographs of arid territories 19 p2977 N84-28870
Structural-geomorphological interpretation of lineaments detected from space photographs and patterns of mineral distribution 19 p2977 N84-28871
Seasonal variation of spectral brightness coefficients for barley and rye 19 p2977 N84-28872
Organizing work with information flows in system for automated processing of data from remote sensing of the Earth for use in agriculture 19 p2977 N84-28873
Automated search for control images on photographs of Earth's surface using spectral analysis
19 p2978 N84-28874
Method for creating synthesized images using diazo color films 19 p2978 N84-28875
Criteria for efficiency of experiments in remote sensing
19 p2978 N84-28876
Izvestiya assails U.S. military space plans
19 p2978 N84-28877
U. S. ASAT program viewed as element of space militarization policy 19 p2978 N84-28878
Further commentary on U. S. ASAT program
19 p2978 N84-28879
List of recent Soviet space launches
19 p2978 N84-28880
USSR report: Earth sciences
[JPRS-UES-84-006] 20 p3223 N84-30479
Inevitable climatic changes 20 p3223 N84-30480
Results of ocean-atmosphere interaction studies in West Atlantic 20 p3223 N84-30481
Spatial distribution of advective heat influxes in atmosphere over Northern Hemisphere and its relationship to heat influxes from ocean 20 p3223 N84-30482
Dependence of crustal structure of eastern Pacific Ocean on its age 20 p3223 N84-30483
Structure of ocean floor in relation to conditions for formation of lithosphere 20 p3223 N84-30484
Developments of research on prediction of earthquakes, tsunami and volcanic eruptions in Far East
20 p3224 N84-30485
Interpreting three-dimensional gravitational and magnetic anomalies 20 p3224 N84-30486
Changes in Earth's rotation rate caused by zonal tide and their manifestations in atmospheric pressure field
20 p3224 N84-30487
Quasi-two-day variation of lower thermosphere wind velocities 20 p3224 N84-30488
Stability criterion for moist compressible atmosphere and energy conditions for development of convective cloud cover: Numerical experiment 20 p3224 N84-30489
Effect of antiscreening of outgoing thermal radiation by cloud cover 20 p3224 N84-30490
Accuracy of one approximate method for computing radiative fluxes in presence of broken clouds
20 p3225 N84-30491
Small-angle method in study of single and multiple scattering 20 p3225 N84-30492
Resonance absorption of narrow-band laser radiation by atmospheric gases 20 p3225 N84-30493
Interpreting spectra of sea surface aerial photographs
20 p3225 N84-30494
USSR report: Space Biology and Aerospace Medicine, vol. 18, no. 3, May - June 1984
[JPRS-USB-84-005] 20 p3252 N84-30642
Use of vitamins during adaptation to high altitudes
20 p3252 N84-30643
Reliability and efficiency of Kubicek rheographic method for monitoring cardiac output and stroke volume
20 p3253 N84-30644
Walking erect as a factor in development of arterial hypertension in primates 20 p3253 N84-30645
Effect of dihydroergotamine on human circulation during orthostatic tests 20 p3253 N84-30646
Circulatory changes in orthostatic position in the presence of hyperthermia 20 p3253 N84-30647
Blood plasma free amino acids under hypokinetic conditions 20 p3253 N84-30648
Human stomach motor and evacuatory functions during antiorthostatic hypokinesia 20 p3253 N84-30649
Circadian pattern of simian functional parameters during hypokinesia and in the recovery period
20 p3253 N84-30650
Dynamics of red blood cell changes in rats during acute immobilization 20 p3254 N84-30651
Ultrasound distribution and bone calcium content in experimental animals submitted to hypokinesia and weightlessness 20 p3254 N84-30652
Ultrasonography of canine soft tissues during decompression 20 p3254 N84-30653
Functional state and work capacity of man when breathing oxygen and hypoxic mixtures under positive pressure 20 p3254 N84-30654
Adrenal-hypothalamus-pituitary system reactions in rats cooled in a hypoxic-hypercapnic gas atmosphere
20 p3254 N84-30655
Exchange of gases and physical work capacity in natives of different geographic regions
20 p3254 N84-30656
Rat behavior in selection of negative stimulus: Pain or exposure to electromagnetic field
20 p3255 N84-30657
Effect of high ammonia content in pressure chamber atmosphere on human adrenocortical system function
20 p3255 N84-30658
Effect of living conditions in confined space on formation of bacterial aerosol 20 p3255 N84-30659
Nomogram for demonstrating change in central venous and pulmonary artery pressure during decompression of different parts of the body 20 p3255 N84-30660
Dependence of blood coagulating and fibrinolytic systems on functional state of lysosomal system of neutrophil leukocytes during exposure of the body to low barometric pressure 20 p3255 N84-30661
Simulation of physiological effects of negative pressure on man 20 p3255 N84-30662
Individual distinctions of human sleeping respiration at altitude of 4200 meters 20 p3256 N84-30663
USSR report: Life sciences. Biomedical and behavioral sciences
[JPRS-UBB-84-016] 20 p3257 N84-30675
Engineering physiology: New area for use of control theory 20 p3257 N84-30676
Bilateral carotid ligation and effects of electromagnetic field on conditioned reflex retention and cerebral nucleic acid levels 20 p3258 N84-30677
Time-dependent spinal cord changes following nonionizing microwave irradiation
20 p3258 N84-30678
Effect of constant and low-frequency magnetic fields on biological systems 20 p3258 N84-30679
Dissociation of amino acid-DNA complexes under influence of long-wave UV light
20 p3258 N84-30680
Reactions of cerebral cortex neurons to alternating magnetic field on glutamic acid
20 p3258 N84-30681
Influence of microwave electromagnetic radiation and certain hormones on osmotic resistance of mouse erythrocytes 20 p3259 N84-30682
USSR report: Physics and mathematics
[JPRS-UPM-84-001] 20 p3285 N84-30662
Excitation of sound by light 20 p3285 N84-30863
Use of Peltier effect for small signal amplification and conversion 20 p3286 N84-30864
Detecting optical polarization of nuclei in semiconductors with super-conducting quantum interferometer
20 p3286 N84-30865
New phase transition in Si and GaAs exposed to picosecond laser pulses 20 p3286 N84-30866
Impact of weak electric field on photoconductivity of modified vitreous As2Se3 20 p3286 N84-30867
Impact of laser radiation on optical properties of polymer liquid crystal in phase transition range
20 p3286 N84-30868
Noncubic magnetic anisotropy in YSmLuCaFeGe garnet films 20 p3287 N84-30869
Polarization of paraexciton luminescence in Cu2O crystals in magnetic field 20 p3287 N84-30870
Electron-microscopic microstructural examination of glassy Ge-Se semiconductors 20 p3287 N84-30871
Instability of collapsing cylindrical shell during magnetic energy density 20 p3287 N84-30872
Excitation of quasi-static magnetic fields in axial structures 20 p3287 N84-30873
Inertial and shear flow 20 p3288 N84-30874
New lasing ferroelectric material Pb5Ge3O11-Nd-3(+)
20 p3288 N84-30875
High-Q open resonator structures with sparse spectrum 20 p3288 N84-30876
Plasma in diverter during intense recycling
20 p3288 N84-30877
Dynamics of plasma corona on spherical targets irradiated by laser 20 p3288 N84-30878
Heating and implosion of spherical targets irradiated by laser 20 p3288 N84-30879
Control computer and automation subsystem equipment in Delfin Facility 20 p3289 N84-30880
Studies of amplifier module in Delfin Facility for heating thermonuclear plasma 20 p3289 N84-30881
Holographic image subtraction by recording in Fourier plane and space filtration with thin light beam
20 p3289 N84-30882
Microspectrophotometer for crystal analysis by absorption reflectometry 20 p3289 N84-30883
Nature of polarized vibronic sidebands of biexciton absorption in Alpha-oxygen 20 p3289 N84-30884
USSR report: Transportation
[JPRS-UTR-84-024] 21 p3329 N84-31119
Advanced system for testing new helicopter transmissions 21 p3329 N84-31120
USSR report: Space
[JPRS-USP-84-004] 21 p3347 N84-31228
Innovations in cosmonaut medical monitoring, physical conditioning 21 p3347 N84-31229
Medical research in first 100 days of Salyut-7 flight
21 p3347 N84-31230
Cosmonaut Berezovoy's memoirs on 211-day spaceflight 21 p3347 N84-31231
Excerpt from cosmonaut Aleksandrov's flight diary
21 p3347 N84-31232
Results from Astron satellite after one year in orbit
21 p3347 N84-31233

Hypokinesia experiment studies effects of weightlessness 21 p3347 N84-31234
Pravda cites advantages of project for orbiting solar reflectors 21 p3347 N84-31235
Space transportation systems of the future 21 p3348 N84-31236
Advantages of metallic fuels for rocket propulsion 21 p3348 N84-31237
Azerbaijan Institute develops subsatellite measurement systems 21 p3348 N84-31238
List of recent Soviet space launches 21 p3348 N84-31239
USSR report: Electronics and electrical engineering [JPRS-UEE-84-008] 21 p3376 N84-31427
Results of investigation of adaptive speech codes 21 p3376 N84-31428
Use of space-diverse photoreceivers for analysis of interference patterns 21 p3377 N84-31429
Adaptive multibeam antenna array 21 p3377 N84-31430
Television transmitting antenna of decimeter band system based on tubes 720 and 1020 mm in diameter 21 p3377 N84-31431
Adaptive antennas for tropospheric radio relay lines 21 p3377 N84-31432
Design of short-wave absorption lines 21 p3377 N84-31433
Analysis of noise temperature of optical waveguide 21 p3377 N84-31434
Equipment for monitoring and control of television transmitters 21 p3378 N84-31435
Multi-criteria approach to selection of optimal connections in large-scale integrated circuits 21 p3378 N84-31436
Measurement of integrated circuit element dimensions taking into account real etching profile according to diffraction pattern 21 p3378 N84-31437
Realization of high-frequency filters according to theory of guided spherical waves 21 p3378 N84-31438
Effect of ion treatment of substrates on initial stage of buildup of metal films 21 p3378 N84-31439
Large-signal amplifier based on ferrimagnetic echo 21 p3378 N84-31440
Circuit engineering principles for construction of bipolar large-scale integrated circuit storage devices and very large-scale main memory 21 p3379 N84-31441
Dielectric-grating band-pass filters 21 p3379 N84-31442
Cold-cathode gas-discharge modulator power tube 21 p3379 N84-31443
Regulation of mechanical characteristic of iron-powder electromagnetic brake 21 p3379 N84-31444
Operating modes of superconducting current converters in service 21 p3379 N84-31445
Infrared ellipsometer method for determination of parameters of thin epitaxial structures with buried layer: Specimens with dull inactive surface 21 p3379 N84-31446
Phase light range finder 21 p3380 N84-31447
Microwave phase modulators using semiconductor diodes (survey) 21 p3380 N84-31448
Alternating acoustoelectric current generated by interaction of two waves in acoustic microwaveguide 21 p3380 N84-31449
Calculation of hydraulic friction losses in dc motors filled with liquid dielectric 21 p3380 N84-31450
Waveguide characteristics of resonators with arbitrary distribution of dielectric permittivity 21 p3380 N84-31451
Alignment of multistate laser amplifiers with periodic space filtration of beam 21 p3381 N84-31452
Modelling of transfer processes in monopolar semiconductor structures with submicron dimensions 21 p3381 N84-31453
USSR report: Life sciences. Effects of nonionizing electromagnetic radiation [JPRS-UNE-84-001] 21 p3452 N84-31903
Medical applications of lasers 21 p3452 N84-31904
Age-related responses to de- and hyperhydration 21 p3452 N84-31905
Effects of whole-body cold exposure on erythrocyte morphology 21 p3452 N84-31906
Effects of climate on kininogen levels in healthy human subjects 21 p3452 N84-31907
Heart rhythm changes in response to sensorimotor load of varying complexity 21 p3452 N84-31908
Correlation between individual alpha-rhythm parameters and operator's performance while subjected to maximum information input 21 p3453 N84-31909
Stability of physiological and psychological human functions under extreme environmental conditions 21 p3453 N84-31910
Psychophysiological aspects of monotonous human activity 21 p3453 N84-31911
USSR report: Life sciences. Biomedical and behavioral sciences [JPRS-UBB-84-012] 21 p3454 N84-31916
First mixed crew in space 21 p3454 N84-31917
Ergonomic analysis of human operation of video terminal 21 p3454 N84-31918
Results of psychophysiological study of Videoton terminal operators 21 p3454 N84-31919
Realization of human work capacity: Interdisciplinary problems 21 p3454 N84-31920
Stress in work 21 p3454 N84-31921
Analysis of some aspects of mechanism of action of helium-neon laser 21 p3455 N84-31922
Immediate effects of hyperbaric oxygenation on body oxygen supply 21 p3455 N84-31923
USSR report: Life sciences. Biomedical and behavioral sciences [JPRS-UBB-84-017] 21 p3455 N84-31924
Link between indexes for mental work capacity and parameters in circulatory system before and after physical stress 21 p3455 N84-31925
Effect of body temperature on human work capacity 21 p3455 N84-31926
Link between characteristics of EEG rhythms in biofeedback control and indexes for operator activity 21 p3455 N84-31927
Quantitative assessment of role of spatial frequencies of images in visual recognition of numbers 21 p3455 N84-31928
Link between blood catecholamine levels and individual features in dynamics of operator error 21 p3456 N84-31929
Changes in arterial pressure in static work as function of time of day and degree of disturbance in Earth's magnetic field 21 p3456 N84-31930
Dynamics of functional status and subjective sensations in process of heat adaptation 21 p3456 N84-31931
Study of spatial asymmetry in human external electrical field 21 p3456 N84-31932
Psychophysics of proprioceptive sensibility 21 p3456 N84-31933
USSR report: Physics and mathematics [JPRS-UPM-84-003] 21 p3477 N84-32043
Dependence of acoustic properties of sound absorbing fibrous materials on their structure 21 p3477 N84-32044
Parametric excitation of transverse acoustic slot waves in solids by means of microwave electric field 21 p3478 N84-32045
Simulation of vibratory processes in damped structures with temperature-frequency characteristics of vibration absorbing materials taken into account 21 p3478 N84-32046
Relation between pressure pulse generated in optoacoustic receiver and intensity of stimulating laser pulse 21 p3478 N84-32047
Sound field of turbulent wake 21 p3478 N84-32048
Nonlinear scattering of radio waves by metal objects 21 p3478 N84-32049
Amplification of traveling magnetostatic waves by parametric pumping 21 p3479 N84-32050
Calculating electric fields in semiconductor structures when singularities are present 21 p3479 N84-32051
Electrical characteristics of metal-dielectric-semiconductor systems produced on epitaxial silicon structures with various dielectrics 21 p3479 N84-32052
Investigation of Bragg reflection of electromagnetic surface waves by diffraction grating 21 p3479 N84-32053
Stability of stationary rotation of cylinder filled with stratified viscous incompressible fluid 21 p3479 N84-32054
Formation of coherent structures by acoustical effects in a turbulent wake 21 p3480 N84-32055
Transition from laminar to turbulent flow under action of acoustic vibrations 21 p3480 N84-32056
Propagation of gas jet in liquid 21 p3480 N84-32057
Free oscillations of ideal stratified fluid in container 21 p3480 N84-32058
Similarity criteria for spectra of pressure fluctuations in turbulent boundary layer at wall 21 p3480 N84-32059
Noncontradictory method of calculating radiation transfer, and problem of shock wave structure 21 p3481 N84-32060
Gasdynamic study of model with combustion in shock tunnel 21 p3481 N84-32061
Hypersonic three-dimensional flow of radiating gas around wing 21 p3481 N84-32062
Hypersonic flow of viscous gas on surface of blunt cone with strong blow-in in blunted region 21 p3481 N84-32063
Coefficient of surface friction with turbulent flow in boundary layer 21 p3481 N84-32064
Improving energy performance and duty time of production process CW electrical ionization CO2 lasers by using five-component lasing mixtures 21 p3481 N84-32065
IRIS pulsing ruby light source 21 p3482 N84-32066
New type of dye laser with light-induced distributed feedback 21 p3482 N84-32067
Apparatus based on holographic focusing diffraction grating for measurement of diffraction efficiency of three-dimensional image holograms 21 p3482 N84-32068
Newly discovered effect of interaction of optical radiation and glass 21 p3482 N84-32069
Source of optical pumping for high-resolution spectroscopy with semiconductor laser 21 p3482 N84-32070
Experimental study of strong nonlinear-optics effects in liquid crystals 21 p3483 N84-32071
Double scattering background in a CW lidar 21 p3483 N84-32072
Resonance and edge amplification of an electric field in a plasma resonance layer and acceleration of particles at plasma inhomogeneities 21 p3483 N84-32073
Nonlinear dynamics of resonance-type instability in high-density electron beam: Analytical solution 21 p3483 N84-32074
Cooling of semiinfinite body under conditions of nonlinear heat transfer at surface 21 p3483 N84-32075
Conditions of filtration burning of porous condensed systems with multiple passage of reaction wave 21 p3483 N84-32076
Stable method for solving linear programming problem with approximate data 21 p3484 N84-32077
Two-phase methods of solving canonical problem of linear programming 21 p3484 N84-32078
Economical multiplication of Boolean equations 21 p3484 N84-32079
Sequential method of minimizing nonlinear function on simplex 21 p3484 N84-32080
USSR report: Physics and mathematics [JPRS-UPM-84-005] 21 p3484 N84-32081
Electromagnetic excitation of sound in metals 21 p3484 N84-32082
Influence of exciton movement in magnetic field on luminescence. Indirect forbidden transitions in Ge 21 p3485 N84-32083
Electromagnetic effects in strong field of single crystals 21 p3485 N84-32084
Nonequilibrium optical and acoustic phonons in semiconductors 21 p3485 N84-32085
Investigation of statistical characteristics of random signals in nonlinear medium 21 p3485 N84-32086
Oscillations of elastic airplane due to wind gust 21 p3485 N84-32087
Supersonic nonsteady flow past flat and axisymmetric pointed bodies 21 p3485 N84-32088
Supersonic jet-cavity interaction pulsation 21 p3485 N84-32089
Diffusion transfer during near-sonic turbulence 21 p3486 N84-32090
Flow structures and their evolution in turbulent shear layer 21 p3486 N84-32091
Motion of vortex pair between parallel walls 21 p3486 N84-32092
Chemical lasers 21 p3486 N84-32093
Study of emission spectrum of tea CO2 lasers with intracavity absorber 21 p3486 N84-32094
Experiments in development of powerful dye laser 21 p3486 N84-32095
Multifrequency emission from submillimeter lasers 21 p3487 N84-32096
Picosecond parametric optical oscillator with amplification of radiation from tunable semiconductor laser 21 p3487 N84-32097
Waveguide CO2 laser with 7.5 W power rating 21 p3487 N84-32098
Focusers of obliquely incident laser radiation 21 p3487 N84-32099
Fiber optic light guides based on polymer coated multicomponent glasses 21 p3487 N84-32100
Using information on tangential target motion in space-time signal processing 21 p3487 N84-32101
Bremsstrahlung from longitudinal plasma waves produced by subthermal electrons in plasma 21 p3488 N84-32102
Energy characteristics of plasma generated in air near target by radiation from CO2 laser 21 p3488 N84-32103
Production of dense plasma column in strong magnetic fields and its diagnosis by laser methods 21 p3488 N84-32104

Plasma beam instability of bounded electron beam in weak magnetic field 21 p3488 N84-32105
Heat transfer by radiation in hydrogen plasma 21 p3488 N84-32106
Differential equations for movement of triaxial gyroscopic stabilizer on moving base 21 p3488 N84-32107
Propagation of nonlinear compression pulses through granular media 21 p3489 N84-32108
Non-integrability of planar oscillation equation for satellite in elliptical orbit 21 p3489 N84-32109
USSR report: Electronics and electrical engineering [JPRS-UEE-84-006] 22 p3565 N84-32580
Synthesis of antennas with weak superdirectivity 22 p3565 N84-32581
Angle resolution of wideband signals received by two slightly diverse linear antenna arrays 22 p3565 N84-32582
Thermoscopic study of diffraction current distribution 22 p3565 N84-32583
Concerning power recovered by receiving antenna from incident field 22 p3566 N84-32584
Intensity of radiowave scattering on anisotropic irregularities with various positions of scattering volume about caustic zone 22 p3566 N84-32585
Reflection of electromagnetic waves from inhomogeneous media 22 p3566 N84-32586
Optimum synthesis of stepped second class phase-shifters 22 p3566 N84-32587
Relations between algorithms of adaptive optimization of antenna arrays and algorithms of optimum detection of multidimensional stochastic signal 22 p3566 N84-32588
Autocorrelation receiver for Doppler short-range radar systems 22 p3566 N84-32589
Threshold signals for detector having stabilization of false alarm probability 22 p3567 N84-32590
Adaptive analog-to-digital converter 22 p3567 N84-32591
Light-emitting diode matrix flat screen 22 p3567 N84-32592
Estimation of sensitivity threshold in integrating analog-to-digital converters with averaging of readings 22 p3567 N84-32593
Inductive transducer for displacement-to-frequency conversion 22 p3567 N84-32594
Simulator-probe for diagnostic testing of short-wave radio channels 22 p3567 N84-32595
Peculiarities in construction of optical receivers for digital fiber-optic communication lines 22 p3568 N84-32596
Random signal recognition based on spectral moments 22 p3568 N84-32597
Interrelation between parameters of M-type traveling wave tube 22 p3568 N84-32598
Frequency conversion in photomultiplier during interaction of photoelectron beam and electric field in heterodyne 22 p3568 N84-32599
High-speed thyristors on weakly doped GaAs 22 p3568 N84-32600
Image identification by method of integral fluctuations 22 p3568 N84-32601
Josephson point contacts noise properties at microwave 22 p3569 N84-32602
Utilization of nonlinear properties of IMPATT-diodes in microwave devices (survey) 22 p3569 N84-32603
Superconductive films in microwave microelectronics (survey) 22 p3569 N84-32604
Intermodulation distortions in semiconductor microwave receivers and transmitters (survey) 22 p3569 N84-32605
Approximation models for electrodynamic systems in solid state millimetric wave devices 22 p3569 N84-32606
Millimetric wave frequency converter using Gunn-effect diode 22 p3570 N84-32607
Design of locked microwave oscillators on basis of scattering parameters of transistors operating in large signal mode 22 p3570 N84-32608
Correlational estimation of parameters of solid state microwave devices 22 p3570 N84-32609
Modulation of microwave power with electron transfer diodes 22 p3570 N84-32610
Stable asynchronous two-frequency oscillations in Gunn-effect diode with open resonator structure 22 p3570 N84-32611
Intermodulation in protective semiconductor microwave devices 22 p3571 N84-32612
Evaluation of the limiting accuracy in determining the coordinates of a point light source by a television tracking system using an image dissector with the presence of a nonstationary current component 22 p3571 N84-32613
USSR report: Life sciences. Biomedical and behavioral sciences [JPRS-UBB-84-018] 22 p3629 N84-32996
Pilot jet lag experiments described 22 p3629 N84-32997
Effect of cyclic changes in cultivation conditions of growth kinetics and physiological properties of yeasts 22 p3629 N84-32998
Microbiology and food program 22 p3629 N84-32999
Modeling of lethal electric shock 22 p3629 N84-33000
Resistance of microorganisms from mesosphere to periodic freezing-thawing 22 p3630 N84-33001
Effects of insulin and hydrocortisone on energy metabolism in rats irradiated with fast, 60 MeV neutrons 22 p3630 N84-33002
West Europe report: Science and technology [JPRS-WST-84-030] 22 p3651 N84-33141
Swedish research in high-temperature ceramics, superalloys 22 p3651 N84-33142
French firm uses unique flexible workshop with laser cutter 22 p3651 N84-33143
Sweden: Optical fiber carries laser power for welding 22 p3651 N84-33144
USSR report: Transportation [JPRS-UTR-84-026] 23 p3687 N84-33368
Civil aviation officials review ministerial concerns, goals 23 p3687 N84-33369
Aeroproyekt institute's work in aviation facility design 23 p3687 N84-33370
USSR report: Materials science and metallurgy [JPRS-UMS-84-006] 23 p3705 N84-33489
Activated aluminum alloy for generating hydrogen fuel 23 p3705 N84-33490
MHD technology in aluminum casting 23 p3706 N84-33491
Study of size factor effect on low-cycle fatigue of aluminum alloys 23 p3706 N84-33492
Portable electromagnetic flaw detector for metal products 23 p3706 N84-33493
C.A.T. scanner for detecting flaws in metals 23 p3706 N84-33494
Corrosion resistant glass coating for metals 23 p3706 N84-33495
Scale effect of fiber strength and properties of fiber-based unidirectional composites 23 p3706 N84-33496
Deformation of fiber-reinforced laminated composite near free surface 23 p3706 N84-33497
Deformability and bearing strength of shells made on release mandrel 23 p3707 N84-33498
Development of ferrous metallurgy described 23 p3707 N84-33499
Mechanical properties of components made from powders received by processing low-grade porous titanium 23 p3707 N84-33500
Production of extra-pure iron for cermet bearings 23 p3707 N84-33501
Powder metallurgy R and D organizations featured 23 p3707 N84-33502
Effect of stress concentration on fatigue resistance of heat-resistant nickel alloys 23 p3707 N84-33503
Kinetic time-temperature equation for creep of heat-resistant alloys taking aging into account 23 p3708 N84-33504
Elastic properties of textured sheets of two-phase titanium alloys 23 p3708 N84-33505
Texture effect on anisotropy of electric and magnetic properties of titanium alpha-alloys 23 p3708 N84-33506
Electron microscope study of processes of polygonization and recrystallization in alpha-phase of two-phase (alpha + beta)-titanium alloys with plate structure 23 p3708 N84-33507
Plasticity of large-grain titanium alloy type VT30 in the beta area 23 p3708 N84-33508
Low-cycle fatigue of VT1-0 alloy and changes in its fine structure at temperatures of 293-4.2 deg K 23 p3708 N84-33509
Deformation and failure of titanium aluminide 23 p3709 N84-33510
Effect of thermocyclic processing on phase composition and structure of VT22 alloy 23 p3709 N84-33511
Bonding materials by gas-phase precipitation 23 p3709 N84-33512
Certain features of laser welding with penetrating melting 23 p3709 N84-33513
Narrow-seam laser welding of components of low thickness 23 p3709 N84-33514
Fusing capacity of concentrated laser beam 23 p3710 N84-33515
Increasing fusion efficiency in laser welding with dynamic beam focusing 23 p3710 N84-33516
Certain metallurgical properties of laser welding 23 p3710 N84-33517
Effect of surface condition and edge preparation on metal fusion during laser welding 23 p3710 N84-33518
USSR report: Machine tools and metalworking equipment [JPRS-UMM-84-016] 23 p3728 N84-33623
Versatility of new east, west European robots viewed 23 p3728 N84-33624
Kirov's plant troubles with robotization 23 p3728 N84-33625
Administrative obstacles to robotization recalled 23 p3728 N84-33626
Robotization of stamping operation reviewed 23 p3726 N84-33627
East Europe report: Scientific affairs [JPRS-ESA-84-007] 23 p3728 N84-33628
CEMA cooperation in microelectronics research, production 23 p3728 N84-33629
Soviet integrated circuits in use in GDR 23 p3728 N84-33630
Worldwide report: Telecommunications policy, research and development [JPRS-TTP-84-029] 23 p3732 N84-33657
Stand on space station participation to be surveyed 23 p3732 N84-33658
Perspectives on European satellite communications 23 p3732 N84-33659
USSR report: Life sciences. Biomedical and behavioral sciences [JPRS-UBB-84-020] 23 p3805 N84-34128
Physical training of cosmonauts for intercosmos program missions 23 p3805 N84-34129
Effects of prolonged weightlessness on orchidaceae proteins 23 p3805 N84-34130
Genetic study of plasmid integration in yeast chromosomes. Report 1: Effect of integration of episomal plasmid in meiotic crossover in chromosome 3 23 p3806 N84-34131
Genetic study of plasmid integration in yeast chromosomes. Report 2: Analysis of irregular meiotic segregation 23 p3806 N84-34132
Obtaining yeast vector marked by mutation of multiple antibiotic resistance 23 p3806 N84-34133
East Europe report: Science and technology [JPRS-ESA-84-035] 23 p3813 N84-34178
Selections on CSSR electronics, computer technology: MHB8804 integrated circuit 23 p3813 N84-34179
USSR report: Transportation [JPRS-UTR-84-027] 24 p3851 N84-34422
ARSSR civil aviation chief on Aeroflot's work in Armenia 24 p3851 N84-34423
More use of helicopters in construction work urged 24 p3851 N84-34424
Improvements in work of aircraft repair plant no. 402 24 p3851 N84-34425
Role of aerodynamics in Tupolev, Ilyushin aircraft designs 24 p3851 N84-34426
USSR report: Chemistry [JPRS-UCH-84-007] 24 p3867 N84-34508
Electrofilters from polymer materials 24 p3867 N84-34509
Polymers as substitutes for metal and lumber 24 p3867 N84-34510
Polyacetylene and K 24 p3868 N84-34511
USSR report: Materials science and metallurgy, no. 94 [JPRS-85025] 24 p3868 N84-34512
Attachment for an X-ray diffractometer for studying transformations in materials 24 p3868 N84-34513
Experimental study of stress-deformed state of three-layer shells made with anisotropic high-module composite materials 24 p3868 N84-34514
An approach for estimating the impact of carbon-reinforced plastic 24 p3868 N84-34515
Fracture toughness of crystalline and composite superhard materials 24 p3868 N84-34516
Seizing in friction of composite materials with differing phase compositions 24 p3868 N84-34517
Hardening alloy surfaces by laser irradiation 24 p3869 N84-34518
Thermal effect of pulsed laser irradiation on the surface of metallic mirrors 24 p3869 N84-34519
Metallogenic studies in Kazakhstan outlined 24 p3869 N84-34520
Effect of stretch rate on texture and mechanical properties of nickel-cobalt alloys 24 p3869 N84-34521
Device for high frequency arc welding 24 p3869 N84-34522
Control of seam formation in welding with a light beam 24 p3869 N84-34523
Effect of protective gas composition on seam formation during laser welding 24 p3870 N84-34524
Features of laser welding of AMg6 alloy 24 p3870 N84-34525
Structure and properties of amorphous powder material after explosive loading 24 p3870 N84-34526
Anodic electrochemical processing of amorphous alloys 24 p3870 N84-34527

Amorphous metallic materials
24 p3870 N84-34526
Fatigue crack growth in vacuum and in gaseous media
24 p3870 N84-34529
Dependance of rate of growth in aqueous corrosive medium on electrochemical conditions at tip of crack
24 p3871 N84-34530
Modern methods of studying initial stage of fatigue fracture in metals 24 p3871 N84-34531
Carbide phases in high-temperature nickel-hafnium alloys 24 p3871 N84-34532
USSR report: Materials science and metallurgy, no. 91
[JPRS-84129] 24 p3871 N84-34533
Significance of the environment in corrosion cracking of Al-Mg and Al-Li-Mg system alloys
24 p3871 N84-34534
Structure and properties of granulated aluminum alloys containing transition metals 24 p3872 N84-34535
Influence of natural exposure in space on physical-mechanical properties of carbon reinforced plastic 24 p3872 N84-34536
Composite materials with aluminum matrix reinforced with carbon fibers 24 p3872 N84-34537
Highly porous powder-fiber composite materials
24 p3872 N84-34538
Fracture mechanism of carbon and boron reinforced plastics with shear between layers
24 p3872 N84-34539
Planning of plates reinforced with equally stressed fibers of constant cross section 24 p3872 N84-34540
Processing the results of fatigue testing of structural materials damaged by corrosion
24 p3873 N84-34541
Passivation of amorphous alloys with various phosphorus contents 24 p3873 N84-34542
Matched evaporation of alloys in a vacuum
24 p3873 N84-34543
Thermal physics of plasma atomization onto fiber materials 24 p3873 N84-34544
Dynamic stress in elastic areas developing upon interaction of intensive heat fluxes with solid bodies
24 p3873 N84-34545
Influence of laser hardening on mechanical properties of type 45 steel 24 p3873 N84-34546
High speed laser formation of small diameter apertures in printed circuit board blanks 24 p3874 N84-34547
Estimating target temperature in laser experiments in nitrogen at high pressures 24 p3874 N84-34548
Failure of aluminum alloy in the presplitting stage
24 p3874 N84-34549
Predicting fatigue durability of duralumin specimens
24 p3874 N84-34550
Far north as source of nonferrous metals
24 p3874 N84-34551
Use of concentrated solar energy to form slip coatings
24 p3874 N84-34552
Corrosion protective properties of coatings obtained by hydraulic pulse compacting of aluminum powder
24 p3875 N84-34553
Hydrogen embrittlement of titanium and its alloys
24 p3875 N84-34554
Electrochemical behavior of amorphous titanium-based alloy after various annealing conditions
24 p3875 N84-34555
Generation of reactive stresses in TiNi alloy
24 p3875 N84-34556
Relationship of structure with cyclic crack resistance of Alpha-titanium alloys 24 p3875 N84-34557
Optimization of initial microstructures of OT4-1 alloy elements joined by diffusion welding
24 p3875 N84-34558
Influence of conditions and medium of annealing on short-term strength and fatigue resistance of welded joints in OT4 titanium alloy 24 p3876 N84-34559
Study of specifics of formation of stress and strain in making circular welded joints in aluminum alloy envelopes 24 p3876 N84-34560
Comparative estimate of cyclic strength of welded joints in titanium alloys 24 p3876 N84-34561
Explosive welding in the manufacture of titanium shells 24 p3876 N84-34562
Discussion of superplasticity effect
24 p3876 N84-34563
Improving the design of multilayer pipes
24 p3876 N84-34564
Study of superfine interactions in amorphous chromium-containing alloys by Mossbauer spectroscopy
24 p3877 N84-34565
Anodic dissolution of transition metal carbides at high current density 24 p3877 N84-34566
Production methods and properties of metal powders for high temperature pressing 24 p3877 N84-34567
Creep of LaCrO-3Cr ceramic-metallic material
24 p3877 N84-34568
Influence of boundary volume structure on grain boundary relaxation of cast heat resistant nickel alloys
24 p3877 N84-34569
Influence of nitrogen-hydrogen-containing media on heat resistance properties of nickel-based alloys
24 p3877 N84-34570
Worldwide report: Telecommunications policy, research and development
[JPRS-TTP-84-002] 24 p3891 N84-34634
Domestic satellite communication system to be established in China 24 p3891 N84-34635
New markets for integrated circuits firms in UK, France and West Germany 24 p3891 N84-34636
Review of West Germany's DFS satellite telecommunications program 24 p3891 N84-34637
Thomson develops new optical reader, digital switching system: Gigadisc reader recorder
24 p3891 N84-34638
USSR report: Machine tools and metalworking equipment
[JPRS-UMM-84-017] 24 p3891 N84-34640
Laser impulse drilling machine discussed
24 p3891 N84-34641
Small orifice laser cutting machine viewed
24 p3891 N84-34642
Technical features of robotized machining system viewed 24 p3892 N84-34643
Decision-making process in management automation
24 p3892 N84-34644
West Europe report: Science and technology, no. 157
[JPRS-84434] 24 p3892 N84-34645
Swedish firm first in Scandinavia to master GaAs technology 24 p3892 N84-34646
Commentary on Philips R and D strategy, policies, major efforts 24 p3892 N84-34647
OECD study shows Sweden has highest robot-worker ratio 24 p3892 N84-34648
Midi-robots get underway in September: Lab-industry link 24 p3892 N84-34649
Lamberton Robotics develops new robot to handle heavy loads 24 p3892 N84-34650
USSR report: Cybernetics, computers and automation technology
[JPRS-UCC-84-001] 24 p3940 N84-34942
Status of scientific research in field of computer technology in country's vuzes 24 p3940 N84-34943
Problems of improving management of use of computer technology in higher schools 24 p3940 N84-34944
Computers on the job 24 p3941 N84-34945
Autonomous microprocessor controllers for scientific research automation systems 24 p3941 N84-34946
Microprocessors for analog signal processing
24 p3941 N84-34947
Optoelectronic programmable logic arrays
24 p3941 N84-34948
Method of acceleration of arithmetic calculations
24 p3941 N84-34949
High-performance specialized processors for calculation of elementary and special functions
24 p3941 N84-34950
System for recording and input to computer of one-dimensional images of dim objects and high-speed processes 24 p3941 N84-34951
Software debugging devices for microprocessors
24 p3941 N84-34952
Structural approach to design of multiprocessor database management system
24 p3942 N84-34953
Image input/output controller-interface based on 16-bit microprocessor 24 p3942 N84-34954
Industrial optodigital inspection system
24 p3942 N84-34955
Improving automated statistical data processing
24 p3942 N84-34956
East Europe report: Science and technology
[JPRS-ESA-84-033] 24 p3943 N84-34960
Delta computer network to be expanded
24 p3943 N84-34961
New computer developments described
24 p3943 N84-34962
East Europe report: Science and technology
[JPRS-ESA-84-027] 24 p3943 N84-34963
Trends in microprocessor technology outlined
24 p3943 N84-34964
New computer developments described
24 p3943 N84-34965
Development of microelectronics described
24 p3943 N84-34966
East Europe report: Science and technology
[JPRS-ESA-84-028] 24 p3943 N84-34967
Robotron K 1520 microcomputer
24 p3943 N84-34968
Microcomputers of Socialist countries
24 p3944 N84-34969
Computers, microprocessors, economy of USSR
24 p3944 N84-34970
Initial steps in utilization of robots
24 p3944 N84-34971
Academician Vamos interviewed on automation related problems 24 p3944 N84-34972
East European report: Science and technology
[JPRS-ESA-84-031] 24 p3960 N84-35071
Selections on computer technology in CSSR: Computers yesterday and today
24 p3960 N84-35072
Monolithic 8-bit converter 24 p3960 N84-35073
Microcomputer-aided A/D converters
24 p3960 N84-35074
EC 1027 computer system 24 p3960 N84-35075
Current concerns in fields of hydrology, meteorology
24 p3960 N84-35076
East Europe report: Science and technology
[JPRS-ESA-84-025] 24 p3960 N84-35077
CEMA computer cooperation, problems described: Application of British technology
24 p3960 N84-35078
CEMA computer hardware cooperation
24 p3960 N84-35079
R-35 computer shortcomings
24 p3961 N84-35080
Socialist countries cooperate in computer R and D
24 p3961 N84-35081
Inventions, new technologies approved by Academy of Sciences: Invention using ultrasound
24 p3961 N84-35082
Device for measuring oxygen
24 p3961 N84-35083
Digital electronic hygrometer
24 p3961 N84-35084

JOINT RADIO COMMITTEE OF THE NATIONALISED POWER INDUSTRIES, LONDON (ENGLAND).
Field strength predictions using a computer and a terrain data base 10 p1476 N84-19643

JOINT RESEARCH CENTRE OF THE EUROPEAN COMMUNITIES, ISPRA (ITALY).
Monitoring of renewable resources (a land information system for Europe) 03 p0395 N84-12581
Marine remote sensing activities of the Joint Research Center, Ispra, Italy 03 p0396 N84-12586
Thermohydraulics in liquid metals
06 p0842 N84-15491
Liquid metal experimental facilities
06 p0842 N84-15492
Remote monitoring of sediments and chlorophyll as traces of pollutant movements in a Mediterranean coastal area 23 p3780 N84-33969
EURDYN: Computer programs for the nonlinear transient analysis of structures submitted to dynamic loading. EURDYN (release 3) users' manual
[DE84-700988] 24 p3912 N84-34777

JOINT TECHNICAL COORDINATING GROUP FOR AIRCRAFT SURVIVABILITY, WASHINGTON, D.C.
Modified QKLOOK program, change 1
[AD-A131507] 01 p0087 N84-10567
The aircraft infrared measurements guide
[AD-A132598] 05 p0747 N84-14905
Aircraft survivability 10 p1508 N84-19869

JOINT TEST FORCE, KIRTLAND AFB, N.MEX.
IFFN (Identification Friend, Foe, or Neutral) report. Phase 1: Design activities
[AD-A133702] 05 p0669 N84-14397
Program master plan
[AD-A141554] 19 p3005 N84-29049

JUNTA DE ENERGIA NUCLEAR, MADRID (SPAIN).
A program for the automatic request of magnetic tapes filing and reading of its contents (processor PCINTA)
[JEN-545] 04 p0578 N84-13815
Code BETAL to calculation Alpha/Beta activities in environmental samples
[JEN-549] 04 p0578 N84-13816
Recommended values of the humidity correction factor k sub h for determining exposure in an X-ray beam with free-air chambers
[JEN-542] 04 p0593 N84-13915
Optical absorption and thermoluminescence in MgO:Ni and MgO:Li irradiated at room temperature
[JEN-556] 16 p2561 N84-26427
Volatilization-excitation phenomena and efficiency of spectrochemical buffers in the analysis of geological samples. 1: The action of the mixture Li2CO3 graphite
[JEN-555] 17 p2729 N84-27369

JYVASKYLA UNIV. (FINLAND).
F-harmonic measure in space
04 p0576 N84-13794
On quasi-parabolic problems with normal boundary conditions 04 p0576 N84-13797

K

KAGAWA UNIV. (JAPAN).
Reliability-based design principle of composite materials with failure probability as a statistic
15 p2309 N84-24851

KAISER ELECTRONICS, SAN JOSE, CALIF.
En route/terminal ATC (Air Traffic Control) operations concept
[AD-A138991] 13 p1929 N84-22550

KAISERSLAUTERN UNIV. (WEST GERMANY).
Preparation of thin amorphous silicon films for thin film solar cells
[BMFT-FB-T-84-018] 16 p2518 N84-26166
Generation of ultra-short laser pulses in the visible and near infrared for a spaceborne laser ranging transmitter
24 p3906 N84-34740

KAJIMA INST. OF CONSTRUCTION TECHNOLOGY, TOKYO (JAPAN).
Study on strength, elastic modulus of artifical lightweight aggregate concrete
[PB83-224824] 01 p0059 N84-10389
Study on small scale model tests for reinforced concrete structures- small scale model tests by using 3mm diameter deformed re-bars
[PB83-224832] 01 p0059 N84-10390
Seismic behavior of steel bent-bracing system
[PB83-224840] 01 p0061 N84-10399

KAKIOKA MAGNETIC OBSERVATORY (JAPAN).
Report of the geomagnetic and geoelectric observations, 1982 (rapid variations)
[KMO-23] 20 p3240 N84-30567

KALI-CHEMIE, HANNOVER (WEST GERMANY).
Cycle of waste heat energy transformation
[BMFT-FB-T-83-173] 07 p1026 N84-16652

KAMAN SCIENCES CORP., COLORADO SPRINGS, COLO.
Satellite system survivability
[AD-P002147] 14 p2137 N84-23812

KANAZAWA UNIV. (JAPAN).
Structures and properties of polymers important to their wear behavior 14 p2154 N84-23902

KANNER (LEO) ASSOCIATES, REDWOOD CITY, CALIF.
Equations governing the liquid-film flow over a plane with heat flux and interfacial phase change
[DE83-017528] 04 p0536 N84-13525
Numerical simulation and practical testing of a rotation-symmetric ion source for gas mass spectrometers
[DE84-002925] 07 p0970 N84-16288
Stark spectroscopy of hydrogen lines in turbulent plasma. 1: Low-frequency turbulence
[DE84-004443] 11 p1737 N84-21333
Properties of polymers: Some uses in electronics, part 1
[DE84-012863] 21 p3370 N84-31386

KANSAI UNIV., OSAKA (JAPAN).
Human behavior 04 p0511 N84-13351
A preprocessing procedure method in ternary clause selection
[AD-P002327] 14 p2189 N84-24118

KANSAS STATE UNIV., MANHATTAN.
Excited state kinetics of mercury halides and mixtures with N2 and Xe
[AD-A135432] 08 p1124 N84-17310
Intercepted photosynthetically active radiation estimated by spectral reflectance
[E84-10109] 12 p1829 N84-21927
The geology of Mare Acidalium quadrangle Mars
15 p2428 N84-25582
Strength of composite beams with eccentric, reinforced, rectangular web openings 17 p2679 N84-27063
Chemistry of energetic fragments: Hypovalent radicals
[AD-A143269] 22 p3547 N84-32453

KANSAS UNIV., LAWRENCE.
A lifting surface theory in rotational flow
[NASA-CR-172233] 01 p0002 N84-10017
Microwave radiometric sensitivity to soil moisture under vegetation cover 01 p0098 N84-10640
Microwave remote sensing of snow experiment description and preliminary results
[E84-10009] 02 p0236 N84-11547
Pilot controls and SPIRF flight
03 p0312 N84-12038
A fault-tolerant distributed computer network design and analysis for an integrated flight control system
03 p0336 N84-12189
Analysis of nonplanar wing-tip mounted lifting surfaces on low-speed airplanes 06 p0786 N84-15142
Theoretical and software considerations for nonlinear dynamic analysis
[NASA-CR-174504] 06 p0858 N84-15589
Radar and infrared remote sensing of terrain, water resources, arctic sea ice, and agriculture
06 p0868 N84-15651
Computer control of a seven degree of freedom manipulator arm 06 p0931 N84-16051
Mapping and monitoring renewable resources with space SAR 07 p0988 N84-16403
Backscattering from inhomogeneous media with irregular boundaries
[AD-A134500] 07 p0993 N84-16440
An inventory of state natural resources information systems
[E84-10072] 07 p1020 N84-16619
Focusing the parabolic antenna
[NASA-CR-173304] 08 p1173 N84-17642
Scattering models in the microwave regime
12 p1831 N84-21937
Measuring and modeling of the dielectric properties and attenuation of vegetation 12 p1832 N84-21940
Determination of the sources of radar scattering
12 p1832 N84-21941
Scattering models in the microwave regime
12 p1834 N84-21950
Measuring and modeling of the dielectric properties and attenuation of vegetation 12 p1834 N84-21953
Determination of the sources of radar scattering
12 p1834 N84-21954
Equal weights, flat maxima, and trivial decisions
[AD-A138506] 12 p1895 N84-22342
Theoretical and experimental study of radar backscatter from sea ice
[AD-A139866] 15 p2321 N84-24935
Many-body processes in atomic and molecular physics
[DE84-007336] 15 p2406 N84-25441
Analysis of Voyager observations of ion and electron phase space densities in the magnetospheres of Jupiter and Saturn 16 p2580 N84-26548
The geomagnetosystem: Charged particle trajectories in the geomagnetic tail 16 p2581 N84-26556
Development of a thermal and structural model for a NASTRAN finite-element analysis of a hypersonic wing test structure 17 p2599 N84-26656
Notes on a theory of terrorism
[AD-P003242] 18 p2903 N84-28409
General aviation aircraft interior noise problem: Some suggested solutions
[NASA-CR-173784] 19 p3099 N84-29685
Nordsee radar backscatter measurements data report
[AD-A141914] 20 p3173 N84-30148

KANSAS UNIV. CENTER FOR RESEARCH, INC., LAWRENCE.
Interaction of the radar waves with the capillary waves on the ocean
[AD-A129690] 01 p0064 N84-10421
Radar remote sensing for crop classification and canopy condition assessment: Ground-data documentation
[E84-10020] 01 p0099 N84-10643
The influence of sensor and flight parameters on texture in radar images 03 p0394 N84-12575
A simulation study of scene confusion factors in sensing soil moisture from orbital radar
[E84-10042] 04 p0552 N84-13635
Weight and balance for the airmass incorporated sunburst model C ultralight
[NASA-CR-175356] 07 p0950 N84-16163
Determination of the static performance of a Cuyuna cc model UL-430RR engine
[NASA-CR-175354] 07 p0953 N84-16179
Measurement of transmission loss characteristics using acoustic intensity techniques at the KU-FRL Acoustic Test Facility
[NASA-CR-173187] 07 p1069 N84-16942
Development of a thermal and structural model for a NASTRAN finite-element analysis of a hypersonic wing test structure
[NASA-CR-170413] 08 p1170 N84-17620
Microwave dielectric constant dependence on soil tension
[AD-A134651] 08 p1178 N84-17673
Marginal ice zone experiment (1983). Part 1: Ice characterization measurements. Part 2. Helicopter-borne and ship-based radar backscatter measurement of sea ice in the marginal ice zone
[AD-A139894] 15 p2373 N84-25238
Scanning wind-vector scatterometers with two pencil beams 17 p2713 N84-27271
The investigation of a variable camber blade lift control for helicopter rotor systems
[NASA-CR-3503] 18 p2788 N84-27695
Development and evaluation of a performance modeling flight test approach based on quasi steady-state maneuvers
[NASA-CR-170414] 18 p2793 N84-27724
VORCAM: A computer program for calculating vortex lift effect of cambered wings by the suction analogy
[NASA-CR-165800] 23 p3690 N84-33387
Modeling the polarization dependence of the attenuation in vegetation canopies 23 p3767 N84-33876

The effect of row direction on the microwave emission from vegetation canopies 23 p3767 N84-33877
Dielectric measurements of soils in the 3 to 37 GHz band between -50C and 23C 23 p3768 N84-33883
The dielectric behavior of snow in the 3 to 37 GHz range 23 p3768 N84-33884
Active microwave measurements of sea ice in the marginal ice under summer conditions
23 p3772 N84-33913
Estimation of albedo and optical thickness with the radiative transfer method 23 p3778 N84-33952
The effect of wavelength filtering in rough surface scattering 23 p3778 N84-33957

KANTROWITZ (MIN) AND ASSOCIATES, INC., ALBUQUERQUE, N. MEX.
Do users ruin design intentions?
16 p2515 N84-26144

KAPTEYN ASTRONOMICAL LAB., GRONINGEN (NETHERLANDS).
Spectroscopy of the 4.6 - 4.7 micron interstellar absorption features 16 p2570 N84-26492
Spectroscopy of the 3.3 and 3.4 micron dust emission features 16 p2570 N84-26496
Spectroscopy of the 4.6 - 4.7 micron interstellar absorption features 18 p2948 N84-28690
Spectroscopy of the 3.3 and 3.4 micron dust emission features 18 p2948 N84-28694
The interstellar media in the Scorpius-Ophiuchus region 24 p3973 N84-35161
Interstellar and nebular absorption lines in planetary nebulae 24 p3973 N84-35162
Hot central stars in planetary nebulae
24 p3977 N84-35193

KARLSRUHE UNIV. (WEST GERMANY).
The specific solutions of a uniform algebraic differential equation of the second order 04 p0575 N84-13790
Eulerian and Lagrangian predictions of particulate two phase flows
[KU-SFB-80/T/222] 05 p0682 N84-14461
Hydrotreating of coal derived liquids
[BMFT-FB-T-83-175] 07 p0973 N84-16304
Computation of strongly swirling axi-symmetric free jets
[KU-SFB-80/T/216] 07 p1004 N84-16512
Shock structure near a wall in pure inert gas and in binary inert gas mixtures 07 p1005 N84-16517
Investigation to diminish the heavy metal concentrations in sewage sludges with organic complexing reagents
[BMFT-FB-T-83-158] 07 p1027 N84-16660
Solution of the Riemann problem for a polytropic gas
[REPT-22] 10 p1457 N84-19517
Thermal properties of binary aqueous solutions at high temperatures and high pressure
[BMFT-FB-T-83-217] 12 p1794 N84-21701
System for Application oriented Requirement Specification (SARS)
[BMFT-FB-DV-83-006] 12 p1885 N84-22286
Materials investigations 14 p2125 N84-23737
Macroscopic and microscopic appearance of separation fractures 14 p2125 N84-23740
Microscopic appearance of vibratory fractures
14 p2126 N84-23742
Fracture mechanics in the analysis of damage
14 p2126 N84-23749
Theoretical studies of solid particles in laminar and turbulent flows
[KU-SFB-80/T/223] 14 p2148 N84-23863
Optical measurements of droplet size distributions: Special considerations in the parameter definition for fuel atomizers 15 p2290 N84-24745
Development of temperature-, velocity- and concentration-profiles in a curved combustor
15 p2292 N84-24757
Problems of computing costs in decision problems
16 p2505 N84-26075
A device for the acceleration of convergence of a monotonously enclosing iteration method
16 p2541 N84-26307
False diffusion in three-dimensional steady flow calculations
[KU-SFB-80/T/224] 17 p2669 N84-27017
DANTE: A semantic data model for use in the construction sector
[KU-IB-17/83] 17 p2754 N84-27480
Development of a self-adapted error-controlled difference method to solve the three-dimensional laminar incompressible boundary layer equations by numerically given contours determined by points
[REPT-24/83] 19 p3025 N84-29186
Development of integrated digital circuits with Josephson junctions
[BMFT-FB-T-84-044] 19 p3113 N84-29777
The SLxE program for the solution of nonlinear systems for elliptic differential equations
[REPT-23/83] 24 p3953 N84-35033

KATHOLIEKE UNIVERSITEIT TE LEUVEN (BELGIUM).
Melting and solidification of metallic composites
17 p2613 N84-26726
Analysis of collagen and noncollagenous proteins in bone particles fractionated by gradient density fractionation 23 p3808 N84-34144
KAYSER THREDE G.M.B.H., MUNICH (WEST GERMANY).
Modular and standardized GAS payload hardware
18 p2799 N84-27765
The G-002 JUFO-1 payload: Its objectives and results
18 p2801 N84-27776
KELLOGG COMMUNICATIONS CORP., LITTLETON, COLO.
Computer science and technology: Future information processing technology, 1983
[PB83-257618] 06 p0886 N84-15820
KELVINATOR COMPRESSOR CO., GRAND RAPIDS, MICH.
Research and development of energy-efficient appliance motor-compressors. Volume 4: Production demonstration and field test
[DE84-005083] 10 p1472 N84-19611
Research and development of energy-efficient high back-pressure compressor
[DE84-011827] 20 p3170 N84-30131
KEMA (N. V.), ARNHEM (NETHERLANDS).
Corrosion of unalloyed steels in different alkaline solutions at high temperatures and under high pressures
[S/T-REPT-VOL-1-NO-1] 20 p3159 N84-30060
Resonance in the water circuit of a cooling tower
[S/T-REPT-VOL-1-NO-2] 20 p3188 N84-30254
Neutron embrittlement of the reactor vessel in Borssele as determined from Charpy specimens
[S/T-REPT-VOL-1-NO-4] 20 p3204 N84-30352
Environmental effects of increasing the amount of district heating in the Netherlands
[S/T-REPT-VOL-1-NO-5] 20 p3238 N84-30558
Human reliability analysis using event trees
[S/T-REPT-VOL-1-NO-3] 20 p3265 N84-30718
KENT STATE UNIV., OHIO.
Metastable superconducting pairs with large momentum
[AD-A136246] 09 p1385 N84-19045
Automatic finite element generators
21 p3420 N84-31695
KENT UNIV., CANTERBURY (ENGLAND).
The ISPM dust experiment 09 p1262 N84-18239
Multiple-foil microabrasion package (A0023)
15 p2276 N84-24666
Analysis of hydroxyl data from comet Austin 1982g
24 p3981 N84-35223
KENTRON, INC., ARLINGTON, VA.
Accounting utility for determining individual usage of production level software systems
[NASA-CR-172414] 21 p3464 N84-31959
KENTRON INTERNATIONAL, INC., HAMPTON, VA.
Nonlinear dynamics and control of a vibrating rectangular plate
[NASA-CR-172215] 03 p0368 N84-12528
Tests on a CAST 7 two-dimensional airfoil in a streamlining test section
[NASA-CR-172291] 08 p1097 N84-17136
An empirical method for predicting the mixing noise levels of subsonic circular and coaxial jets
[NASA-CR-3786] 09 p1385 N84-19048
Upper and lower bounds for semi-Markov reliability models of reconfigurable systems
[NASA-CR-172340] 12 p1897 N84-22353
Application of near-term technology to a Mach 2.0 variable-sweep-wing, supersonic-cruise executive jet
[NASA-CR-172321] 14 p2104 N84-23621
Application of selected advanced technologies to high performance, single-engine, business airplanes
[NASA-CR-172361] 18 p2792 N84-27719
A theoretical study of resin flows for thermosetting materials during prepreg processing
[NASA-CR-172442] 23 p3724 N84-33596
KENTRON TECHNICAL CENTER, HAMPTON, VA.
An approximation formula for a class of Markov reliability models
[NASA-CR-172290] 07 p1068 N84-16935
KENTUCKY UNIV., LEXINGTON.
Formaldehyde as a density probe of interstellar clouds
02 p0307 N84-12015
Stability of a pair of stationary vortices in the leeward side of a cylinder in a potential flowfield
[AD-A131917] 03 p0320 N84-12095
Structural characterization of dispersed metal catalysts
[DE83-017145] 03 p0354 N84-12305
A feasibility study of electromagnetic DE-spin system for Earth orbiting satellites 06 p0930 N84-16040
Studies of electrically stimulated rat limb and peripheral nerve regeneration
[AD-A134358] 08 p1197 N84-17806
Rabbit neurobehavioral toxicity from aluminum
[PB84-103266] 08 p1198 N84-17809
Algorithms, modeling and estimation for linear systems
[AD-A135134] 08 p1218 N84-17951
Research in theoretical nuclear physics
[DE84-006976] 12 p1902 N84-22387
Water resources data, Kentucky water year 1982
[PB84-162320] 14 p2171 N84-24004
Nonlinear vibrations of a rubber support system constrained by a fixed surface 15 p2313 N84-24878
Development of limb volume measuring system
[NASA-CR-171789] 16 p2495 N84-26008
An improved analysis of the thermal buckling of silicon sheet 18 p2938 N84-28633
Studies on B-(Pyrazol-1'-yl)pyrazaboles
[AD-A141115] 19 p2998 N84-28997
Response of the cardiovascular system to vibration and combined stresses
[AD-A142166] 19 p3066 N84-29450
The bromination of pyrazabole
[AD-A144264] 24 p3880 N84-34581
Harmonic control to reduce torque pulsations in brushless dc motor drives
[AD-A144216] 24 p3897 N84-34677
KENYON COLL., GAMBIER, OHIO.
Calcium elicited asymmetric auxin transport in gravity influenced root segments 09 p1352 N84-18835
KEO CONSULTANTS, BROOKLINE, MASS.
Optical ionospheric mapping
[AD-A140508] 16 p2526 N84-26218
KERNFORSCHUNGSANLAGE, JUELICH (WEST GERMANY).
Investigation of inhomogeneity in ceramic reactor materials using laser-localized emission spectroscopy
[JUEL-1834] 03 p0357 N84-12323
Investigation of the statistical mechanics of linear polymers for various physical conditions
[JUEL-1832] 03 p0357 N84-12324
First investigations on a wrapped fiber blanket insulation with massive spacers consisting of carbon fiber composite
[JUEL-1840] 05 p0646 N84-14247
Constitutive equations for the creep behavior of nickel-base alloys for High Temperature Reactor (HTR) components in the temperature range 1023-1273 K
[JUEL-1843] 05 p0657 N84-14318
Carbide precipitation in nickel-base model alloys and its influence on ductility and fracture behavior at room temperature
[JUEL-1845] 05 p0657 N84-14319
Quantitative sputter profiling at surfaces and interfaces 06 p0816 N84-15314
Statistical trend analysis methodology for rare failures in changing technical systems
[JUEL-SPEZ-215] 07 p1067 N84-16928
Superfluid hydrodynamics of inhomogeneous states: Systems with broken gauge-translation-symmetry
[JUEL-1858] 10 p1495 N84-19773
Investigation of the earthquake behavior of the research reactor FRJ-2 (DIDO)
[JUEL-SPEZ-222] 12 p1848 N84-22047
Hydrodynamic theory of convective transport across a dynamically stabilized diffuse boundary layer
[JUEL-1869] 13 p2046 N84-23275
Parallel processors: Aspects of interaction between calculator architecture and algorithms
16 p2549 N84-26360
Development of reaction-bonded silicon carbide (SiSiC)-ceramics
[JUEL-1873] 18 p2819 N84-27901
Contribution ot the high temperature deformation behavior of the austenitic steel 1.4981 after neutron irradiation
[JUEL-1904] 23 p3720 N84-33584
A high resolution system for analogue recording and digital processing of measured values in fusion research
[JUEL-1909] 23 p3752 N84-33786
Life tests of ball bearings at 120C in helium atmosphere
[JUEL-1911] 23 p3757 N84-33816
GROWIAN: Electric current from wind energy
23 p3786 N84-34009
Magneto-optical studies of epitaxial EuS films and (EuS/SrS) layer systems
[JUEL-1910] 23 p3831 N84-34302
KERNFORSCHUNGSZENTRUM, KARLSRUHE (WEST GERMANY).
Temperature distributions, boiling and dry-out behind local blockages 06 p0843 N84-15495
Sodium boiling experiments in bundle geometries under fast transient and steady state conditions
06 p0843 N84-15496
The BLOW-3A: A theoretical model to describe transient two phase flow conditions in Liquid Metal Fast Breeder Reactor (LMFBR) coolant channels
06 p0843 N84-15497
Theoretical simulation of thermohydraulic behavior of sodium cooled subassemblies in steady state and transient conditions 06 p0843 N84-15498
Experimental investigation of turbulent flow in the inlet region of an eccentric annulus
[KFK-3573] 07 p1004 N84-16511
Heat transfer for turbulent flow of helium or hydrogen in a tube at high temperatures: Evaluation with the method of Petukhov
[KFK-3593] 07 p1005 N84-16518
KESTREL INST., PALO ALTO, CALIF.
Synthesis of efficient structures for concurrent computation
[AD-A135892] 09 p1368 N84-18930
KETRON, INC., WAYNE, PA.
Evaluating and quantifying user perception of pavement serviceability
[PB83-207308] 01 p0058 N84-10375
KHD LUFTFAHRTTECHNIK G.M.B.H., OBERURSEL (WEST GERMANY).
Secondary power systems for fighter aircraft experiences today and requirements for a next generation 03 p0334 N84-12171
KIEL UNIV. (WEST GERMANY).
Handling and processing of hydrographic data
[REPT-111] 07 p1041 N84-16751
Transport processes in the central equatorial Atlantic and their influence on the heat content
[REPT-113] 07 p1041 N84-16752
The ISPM cosmic-ray and solar-particle investigation
09 p1262 N84-18236
Long wave radiance to space and net flux at the surface 10 p1535 N84-20056
The eddy field of the Central North Atlantic
[AD-P002664] 11 p1691 N84-21029
Determination of sea surface temperatures from high resolution infrared satellite measurements
[REPT-115] 12 p1837 N84-21975
Measurement of heavy cosmic-ray nuclei on LDEF (M0002-2) 15 p2276 N84-24664
Quantities of interest to climatology and atmospheric physics, volume 2 16 p2529 N84-26239
Temperature and humidity profiles in the atmosphere from spaceborne lasers: A feasibility study
17 p2716 N84-27292
Differential absorption lidar in space for temperature and humidity profiles in the atmosphere
24 p3907 N84-34748
IUE-high resolution of ONV-stars
24 p3976 N84-35180
Spectral analysis of helium poor hot subdwarfs
24 p3976 N84-35181
Mass loss from the central star of NCG 3242
24 p3977 N84-35194
An estimate of V348 Sgr effective temperature
24 p3978 N84-35201
KING RESEARCH, INC., ROCKVILLE, MD.
The use and value of Defense Technical Information Center products and services
[AD-A130805] 01 p0161 N84-11061
KING'S COLL., LONDON (ENGLAND).
Spectroscopic research at high pressure and variable temperature
[AD-A143759] 23 p3713 N84-33537
KINGSTON POLYTECHNIC, KINGSTON-UPON-THAMES (ENGLAND).
Design environments and the user interface for CAD of control systems 01 p0015 N84-10095
Introduction and review of some jet interference phenomena relevant to V/STOL aircraft
16 p2436 N84-25626
KIRUNA GEOPHYSICAL INST. (SWEDEN).
Observations of He+ ions in the solar wind
[KGI-PREPRINT-064] 15 p2428 N84-25585
An explanation of the spectral seasonal variations in the night airglow emissions
[KGI-PREPRINT-066] 18 p2880 N84-28288
Space physics research activities report
[ISSN-0347-6405] 18 p2928 N84-28567
Ion waves generated by streaming particles
[KGI-PREPRINT-065] 18 p2935 N84-28612
KITT PEAK NATIONAL OBSERVATORY, TUCSON, ARIZ.
Helium 10830 angstrom irradiance: 1975-1983
17 p2779 N84-27648
Quasars as probes of the intergalactic medium
24 p3972 N84-35154
KLEIN ASSOCIATES, YELLOW SPRINGS, OHIO.
Using comparison-based methods for predicting and designing
[AD-P003364] 18 p2913 N84-28477
KLM ROYAL DUTCH AIRLINES, AMSTERDAM (NETHERLANDS).
APU in commercial airline operation
03 p0334 N84-12173

KLOECKNER-HUMBOLDT-DEUTZ A.G., OBERURSEL (WEST GERMANY).
Production of cubic crystalline boron nitride
[BMFT-FB-T-84-025] 16 p2471 N84-25836
KLOECKER-WERKE A.G., BREMEN (WEST GERMANY).
Cladding of carbon steel with stainless steel
[BMFT-FB-T-84-030] 18 p2816 N84-27877
KLOECKNER-WERKE A.G., TROISDORF (WEST GERMANY).
A light assembly system of sections adaptable to sound or heat insulation, for numerous applications
[BMFT-FB-T-83-085] 02 p0288 N84-11889
KMS FUSION, INC., ANN ARBOR, MICH.
Simulations and theoretical implications of KMS transport experiments for 1.05 micron and 0.53 micron laser radiation
[DE84-000824] 04 p0542 N84-13570
Absolutely unstable stimulated Brillouin scattering and 2-plasmon decay
[DE84-000823] 04 p0611 N84-14032
A low loss quasioptical cavity for a two-stage Free Electron Laser (FEL)
[AD-A133321] 06 p0850 N84-15541
Limiting energy spread at high laser intensities using phase space displacement
[AD-A133322] 06 p0850 N84-15542
Two-stage FEL (Free Electron Laser) program
[AD-A133508] 06 p0850 N84-15546
Study of robotics systems applications to the space station program
[NASA-CR-173703] 18 p2807 N84-27819
Singlet oxygen generator for a solar powered chemically pumped iodine laser
[NASA-CR-172364] 19 p2982 N84-28899
Coated silica shells: An advanced hydrogen storage system
[DE84-008986] 20 p3163 N84-30088
Holographic interferometry using 20-picosecond UV pulses to obtain time resolved hydro measurements of selenium and gold plasmas
[DE84-009485] 20 p3191 N84-30269
Experiments and theory on half-harmonic light and 2-plasmon decay
[DE84-008945] 20 p3193 N84-30276
VUV instrument calibrations for laser-plasma studies
[DE84-010507] 20 p3303 N84-30974
KNOLLS ATOMIC POWER LAB., SCHENECTADY, N. Y.
Vectorized Monte Carlo methods for reactor lattice analysis 10 p1559 N84-20216
Characterization of zirconium alloy oxidation films by alternating current impedence
[DE84-006225] 13 p1965 N84-22766
Consistent hydrodynamic mass for parallel prismatic beams in a fluid-filled container
[DE84-010381] 18 p2853 N84-28116
Utilization of basic language programming with EEPROM technology for data acquisition applications and development
[DE84-010380] 18 p2921 N84-28526
KOBE UNIV. (JAPAN).
Stability problems of rotor systems 10 p1506 N84-19851
KOKUSAI DENSHIN DENWA CO. LTD., TOKYO (JAPAN).
Design and test results of optical fiber units for optical submarine cable 11 p1723 N84-21243
KONINKLIJKE/SHELL-LABORATORIUM, AMSTERDAM (NETHERLANDS).
Development of an instrumented riser joint 17 p2629 N84-26818
KONKOLY OBSERVATORY, BUDAPEST (HUNGARY).
Some problems in calibrating UBV photometry for effective temperature and surface gravity 15 p2422 N84-25546
KONSTANZ UNIV. (WEST GERMANY).
The sodium sulfur battery system: Investigation of the solid electrolyte beta alumina
[BMFT-FB-T-83-123] 02 p0216 N84-11416
KOOL VIEW CO., INC., MADISON, WIS.
Honeycomb insulating shade
[DE84-001270] 09 p1276 N84-18335
KOREAN INST. OF SCIENCE AND TECHNOLOGY, SEOUL.
New fabrication process for a tubular LiAl/FeS cell battery
[DE83-014305] 01 p0074 N84-10488
Periodic window, period doubling, and chaos in a liquid crystal bistable optical device 14 p2238 N84-24432
KORF-STAHL A.G., BADEN-BADEN (WEST GERMANY).
Reduced electric reactance for electric arc furnace
[BMFT-FB-T-83-303] 15 p2328 N84-24976
KORSCH OPTICS, INC., HUNTSVILLE, ALA.
Technical support for AXAF
[NASA-CR-170950] 06 p0917 N84-15959
KRAFTWERK UNION A.G., MULHEIM (WEST GERMANY).
Superconducting AC generators
[BMFT-FB-T-84-102] 23 p3744 N84-33737
KROHNE MESSTECHNIK G.M.B.H. UND CO. K.G., DUISSBURG (WEST GERMANY).
A study for developing an ultrasonic Doppler flowmeter
[BMFT-FB-T-84-135] 23 p3752 N84-33788
KRUPP (FRIED.) G.M.B.H., ESSEN (WEST GERMANY).
Development of low cost amorphous materials with high saturation flux density
[BMFT-FB-T-83-213] 10 p1463 N84-19558
Design, manufacture and tests of a locking and unlocking mechanism, using memory elements (vem); layout, manufacture and testing of a tracking mechanism, using memory elements for locking/unlocking and driving and being suitable for qualification (NFMM)
[BMFT-FB-W-84-012] 19 p3033 N84-29236
KRUPP STAHL A.G., BOCHUM (WEST GERMANY).
Automated detection of internal and surface defects in moving strip
[BMFT-FB-T-84-079] 19 p3033 N84-29239
KULITE SEMI-CONDUCTOR PRODUCTS, INC., RIDGEFIELD, N. J.
Temperature compensation and shunt calibration of semiconductor pressure transducers
[AD-P002686] 11 p1658 N84-20821
KYOTO UNIV. (JAPAN).
Collisional-radiative model for helium-like ions: Application to intermediate-density plasmas
[IPPJ-647] 06 p0919 N84-15976
The effect of excitation anisotropy in the laser-induced fluorescence spectroscopy of plasmas 11 p1735 N84-21319
Spectroscopy in heliotron E 11 p1735 N84-21320
Axiomatic characterization and comparative analysis of preference on desirability and possibility
[AD-P002329] 14 p2189 N84-24120
Generation of ternary majority functions of four or less variables
[AD-P002337] 14 p2190 N84-24128
Classification of Nash manifolds 14 p2211 N84-24274
Chaos and optical bistability: Bifurcation structure 14 p2231 N84-24382
Grain formation in the expanding gas flow around cool luminous stars 16 p2569 N84-26489
Heterogeneous condensation of ice mantle around silicate core grain in molecular cloud 16 p2570 N84-26491
Far infrared extinction coefficients of minerals of interest for astronomical observations 16 p2571 N84-26502
Origin of amorphous interstellar grains 16 p2571 N84-26503
Nova Aquilae 1982: The nature of its dust 16 p2572 N84-26504
Outline of the Mu radar 17 p2691 N84-27140
A transceiver module of the Mu radar 17 p2692 N84-27147
Grain formation in the expanding gas flow around cool luminous stars 18 p2947 N84-28687
Heterogeneous condensation of ice mantle around silicate core grain in molecular cloud 18 p2948 N84-28689
Far infrared extinction coefficients of minerals of interest for astronomical observations 18 p2949 N84-28700
Origins of amorphous interstellar grains 18 p2949 N84-28701
Freejets of rotationally relaxing diatomic gases 20 p3169 N84-30119
Visualization for a free jet by a laser induced fluorescence method and its structure 20 p3169 N84-30120
KYUSHU INST. OF TECH., KITAKYUSHU (JAPAN).
Properties of echo spectra observed by MST radars 17 p2696 N84-27171
KYUSHU UNIV., FUKUOKA (JAPAN).
Technology Reports of the Kyushu University, vol. 56, no. 3, June 1983
[ISSN-0023-2718] 07 p0982 N84-16359
Sound radiation by vortex-body interaction 07 p0982 N84-16360
Frequency characteristics of spring constants of a suspended transmission line 07 p0982 N84-16361
Kinetic model on substrate-metabolic system and growth of microorganisms in activated sludge 07 p0982 N84-16362
An experimental study on wave interception by several pairs of balloons and a pair of grouped several balloons in submerged state 07 p0982 N84-16363
Suboptimal LQ control problem using reconstructed state feedback control law 07 p0982 N84-16364
Influence of unbalanced three-phase current on characteristics of high-speed LIM 07 p0983 N84-16365
Brushless self-excited type three-phase synchronous motor driven by GTO inverter 07 p0983 N84-16366
Fatigue damage of an annealed 0.45 percent C steel under fully-reversed tension-compression cycling 07 p0983 N84-16367
Fatigue process of hard steels 07 p0983 N84-16368
Fluid-dynamic error in measurement of periodic flow by spherical yawmeter and flow separation on yawmeter head 07 p0983 N84-16369
A method of economical gear finishing of surface hardened gears 07 p0983 N84-16370
Characteristics of grindability of P/M high speed steel: Influence of peripheral wheel speed on wheel wear and surface quality 07 p0984 N84-16371
Study on deep-hole boring by BTA system solid boring tool: Burnishing effect and guiding action of tool head 07 p0984 N84-16372
Critical heat flux in forced convection boiling of Freon in a tube at high subcritical pressure: In the case of vapor-liquid mixture at inlet 07 p0984 N84-16373

L

L'AIR LIQUIDE, SASSENAGE (FRANCE).
Food preservation with gas 11 p1640 N84-20719
L'GARDE, INC., NEWPORT BEACH, CALIF.
Geothermal Elastomeric Materials Technology Transfer (GEM-TT) Program
[DE83-013118] 01 p0050 N84-10325
Highly accurate inflatable reflectors
[AD-A143628] 23 p3825 N84-34255
LA JOLLA INST., CALIF.
Scattering of waves by irregularities in periodic discrete lattic spaces. Part 2: Calculations
[AD-A130665] 01 p0140 N84-10917
Identification of new potential scientific and technology areas for DoD application. Summary of activities
[AD-A134372] 07 p1084 N84-17050
Fractal phase screens
[AD-A137804] 11 p1714 N84-21175
The analytic structure of ordinary and partial differential equation
[AD-A144121] 24 p3950 N84-35011
Low-energy collisions excited atoms
[AD-A144192] 24 p3961 N84-35087
LABEN SPACE INSTRUMENTATION AND SYSTEMS, MILAN (ITALY).
The role of quality assurance in the development of software for space applications 05 p0723 N84-14743
Onboard software testing and qualification 05 p0724 N84-14754
LABORATOIRE CENTRAL DE BIOLOGIE AEROSPATIALE, PARIS (FRANCE).
A comparative study in the animal of the toxicity of the combustion products of diverse materials 22 p3632 N84-33015
LABORATOIRE CENTRAL DE TELECOMMUNICATIONS, PARIS (FRANCE).
Multiple paths on the ocean surface 06 p0870 N84-15666
LABORATOIRE D'ETUDE DES TRANSMISSIONS IONOSPHERIQUES, CACHAN (FRANCE).
Adaptive protection of detecion systems operating by spread spectrum 06 p0868 N84-15652
Contending with jamming in decametric waves in an adaptive system of all-directional antennas 06 p0868 N84-15653
LABORATOIRE DE MEDECINE AEROSPATIALE, BRETIGNY-SUR-ORGE (FRANCE).
Value of the lower body negative pressure test in aerospace medicine 11 p1701 N84-21096
Methods and major findings of cardiovascular exploration involving the human centrifuge 11 p1701 N84-21097
LABORATOIRE DE METEOROLOGIE DYNAMIQUE, PARIS (FRANCE).
Calibration of TM data from ground-based measurements 20 p3209 N84-30385
LABORATOIRE SUISSE DE RECHERCHES HORLOGERES, NEUCHATEL (SWITZERLAND).
Moisture resistant MoS2-based composite lubricant films 09 p1296 N84-18468
Lubrication of mountings subject to contact corrosion 09 p1296 N84-18469
LABORATORIO DE ACUSTICA E SONICA, SAO PAULO (BRAZIL).
Techniques of condition monitoring and fault diagnosis in industry 04 p0546 N84-13595
Techniques for predictive maintenance in industrial installation and failure diagnostic 10 p1503 N84-19824

Vibration exposures concerning the drivers of trucks and vehicles operated by Rodotigre
10 p1552 N84-20173
Micrometric cleaning of steel tubes through ultrasonic cavitation
[REPT-61584] 21 p3491 N84-32125
Agglomeration and pecipitation by sonic-inertial means: Abstract of the state of the art
[REPT-0563/84] 21 p3491 N84-32126

LABORATORIUM ELEKTRONISCHE ONTWIKKELINGEN VOOR DE KRIJGSMACHT TNO, OEGSTGEEST (NETHERLANDS).
Coupling of airborne sound in a sandy soil
[LEOK-TR-1983-09] 13 p2040 N84-23236

LABORATORY FOR ELECTRONIC DEVELOPMENT OF THE ARMED FORCES, OEGSTGEEST (NETHERLANDS).
Feasibility study for the improvement of automatic detection of bird migration with radar images
[LEOK-TR-1983-12] 18 p2790 N84-27704
An Electronic Counter Measures (ECM) program generator
[LEOK-TR-1983-13] 18 p2830 N84-27970
Inventory RF radiation levels in the Netherlands, part 1
[LEOK-TR-1984-02-PT-1] 20 p3175 N84-30167
Description of a microwave system for the measurement of close to carrier AM and FM noise spectra
[LEOK-TR-1984-04] 20 p3176 N84-30168

LAJET ENERGY CO., ABILENE, TEX.
LEC system development 18 p2874 N84-28248

LAKE SHORE CRYOTRONICS, INC., WESTERVILLE, OHIO.
Enthalpy - improved dielectric insulation for superconducting wires
[AD-A131857] 03 p0356 N84-12316

LAMONT-DOHERTY GEOLOGICAL INST., PALISADES, N. Y.
Geophysical data from drifting ice stations FRAM 4 and TRISTEN
[AD-A133370] 06 p0866 N84-15640
Climate-chemistry connection
[DE84-001950] 06 p0882 N84-15739
Variation of Arctic cloud cover during summer 1979, part 1
[DE84-008996] 19 p3057 N84-29395

LAMONT-DOHERTY GEOLOGICAL OBSERVATORY, PALISADES, N. Y.
Physical oceanography report STD data from drifting ice station Fram 1
[AD-A134244] 08 p1196 N84-17797
Variation of arctic cloud cover in summer: Results through February 1983
[DE84-005098] 11 p1688 N84-21010
ONR-Sponsored meeting to discuss South Atlantic and Indian Ocean physical oceanographic research
[AD-A140030] 15 p2374 N84-25242
Canyon and slope processes study. Volume 1: Executive summary
[PB84-169481] 17 p2738 N84-27391
Canyon and slope processes study. Volume 2: Physical processes
[PB84-169499] 17 p2738 N84-27392
Canyon and slope processes study. Volume 3: Biological processes
[PB84-169507] 17 p2738 N84-27393
Arctic physical oceanography
[AD-A144596] 24 p3935 N84-34909

LANCASTER UNIV. (ENGLAND).
Theoretical aspects of photoclinometric terrain profiling on the Galilean satellites 13 p2074 N84-23441

LANCHESTER POLYTECHNIC, COVENTRY (ENGLAND).
A diagnostic technique for improving combustor performance 19 p2967 N84-28800
Super upwinding elements of doubt and discrete differences of opinion on the numerical muddling of the incomprehensible defective confusion equation
19 p3025 N84-29188
Parameterization and shape of B-spline curves for CAD 19 p3080 N84-29541
A multigrid finite element method
23 p3818 N84-34213

LANDSAT TECHNICAL WORKING GROUP.
Proceedings of the Fourth Meeting of the LANDSAT Technical Working Group (LTWG). Attachments
[LIB-PRO-0012] 10 p1523 N84-19971
LANDSAT-D communication systems in-orbit performance 10 p1523 N84-19972
LANDSAT-4 status 10 p1523 N84-19973
Summary of LANDSAT Technical Working Group (LTWG) meetings 10 p1524 N84-19984

LANGUAGE SERVICES, KNOXVILLE, TENN.
Formation of free hydrogen during radiolysis in a bed of clay
[DE83-017724] 03 p0350 N84-12275
Calculation of ballistic focusing of ion beams
[DE84-012870] 20 p3297 N84-30934
Pulsed high-current source of negatively charged hydrogen ions
[DE84-012989] 21 p3496 N84-32158
Electromagnetic theory of an antenna for ICR heating of a plasma in Tokamaks
[DE84-012988] 21 p3503 N84-32200
Adone parameters, beam structure and luminosity
[DE84-012866] 22 p3653 N84-33154

LAQUE CENTER FOR CORROSION TECHNOLOGY, INC., WRIGHTSVILLE BEACH, N.C.
Corrosion fatigue of high strength fastener materials in seawater
[NASA-CR-174677] 17 p2723 N84-27328

LARGO SOLAR SYSTEMS, INC., PLANTATION, FLA.
Developing proto-type pump which would utilize unique thermo-dynamic cycle
[DE84-000323] 05 p0688 N84-14523

LASER ANALYTICS, INC., BEDFORD, MASS.
Development of long wavelength semiconductor diode lasers near 28 microns for use in infrared heterodyne spectrometers
[NASA-CR-175253] 22 p3600 N84-32802

LASSEN RESEARCH, MANTON, CALIF.
Research study: Organization and development of organized convection in the boundary layer
[NASA-CR-171115] 21 p3398 N84-31552
Morphology and development of organized convection in the boundary layer 24 p3930 N84-34880

LAUSANNE UNIV. (SWITZERLAND).
Mechanochemical effects in demineralization and mineralization of bone 23 p3808 N84-34146

LAVAL UNIV. (QUEBEC).
The effects of fuel composition upon heat transfer in gas turbine combustors 15 p2290 N84-24740

LEADERSHIP AND MANAGEMENT DEVELOPMENT CENTER, MAXWELL AFB, ALA.
A field study of Air Force organization structures
[AD-A142389] 20 p3312 N84-31035

LEAR SIEGLER, INC., GRAND RAPIDS, MICH.
Performance validation of Lear Siegler flight management systems 17 p2586 N84-26578

LEEDS UNIV. (ENGLAND).
The potential of the single screw compressor
11 p1640 N84-20722
An investigation of the interaction between multiple dilution jets and combustion products
15 p2292 N84-24758
Non-steady state effects in EHL
15 p2341 N84-25051
Kinetics and mechanisms of thermolytic interconversions of boron hydrides
[AD-A143525] 22 p3547 N84-32455

LEHIGH UNIV., BETHLEHEM, PA.
Raman scattering temperature measurements for water vapor in nonequilibrium dispersed two-phase flow
[DE83-900107] 01 p0080 N84-10522
Elastic-plastic fracture of cylindrical shells containing part-through circumferential cracks
03 p0391 N84-12553
Mechanical response of materials with physical defects. Part 3. A material testing program for size and rate effects
[AD-A133762] 05 p0693 N84-14548
Coupled diffusion and deformation theory: Hygrothermal stress distribution around crack-like defects
05 p0694 N84-14558
A generalized couple theory of hygrothermal-elasticity: Transient effects in composite laminate with circular cavity
[AD-A134376] 07 p0968 N84-16271
A cylindrical shell with a stress-free end which contains an axial part-through or through crack
[NASA-CR-173290] 08 p1169 N84-17617
A pressurized cylindrical shell with a fixed end which contains an axial part-through or through crack
[NASA-CR-173291] 08 p1169 N84-17618
Transient thermal stresses in a reinforced hollow disk or cylinder containing a radial crack
[NASA-CR-173292] 08 p1170 N84-17619
Symposium on Advanced Methods of Catalyst Characterization, November 1-2, 1982
[AD-A136209] 09 p1280 N84-18359
The effects of cylindrical surface modifications on turbulent boundary layers
[AD-A136296] 09 p1314 N84-18585
Fundamental radiation damage processes in silicon
[AD-A136033] 09 p1396 N84-19119
Quasi-cleavage and martensite habit plane
[AD-A137378] 10 p1459 N84-19527
Crack paths and hydrogen-assisted crack growth response in AISI 4340 steel
[AD-A137388] 10 p1459 N84-19528
A synthesized model of the near-wall behavior in turbulent boundary layers
[AD-A137029] 10 p1493 N84-19764
Surface cracks in a plate of finite width under tension or bending
[NASA-CR-172309] 10 p1516 N84-19926
The crack-inclusion interaction problem
[NASA-CR-172308] 10 p1516 N84-19928
Role of microstucture in hydrogen assisted cracking
11 p1631 N84-20667
Late developments in the field of heat recovery
11 p1640 N84-20727
A pseudo-elastic material damage model involving local stiffness change and crack growth
11 p1667 N84-20873
Stress intensity factors in a reinforced thick-walled cylinder
[NASA-CR-172307] 11 p1668 N84-20879
An interactive modeling program for the generation of planar polygons for boundary type solids representations of wire frame models 12 p1874 N84-22210
Corrosion control through a better understanding of the metallic substrate/organic coating/interface
[AD-A139086] 13 p1961 N84-22739
Experimental observations of vortex ring interaction with the fluid adjacent to a surface
[AD-A138999] 13 p1990 N84-22917
A study of fatigue crack propagation in powder metallurgy hot isotatically pressed nickel-base alloy
[AD-A139290] 14 p2127 N84-23754
Longitudinally stiffened composite multi-layer cylindrical shells (and rings) under internal pressure
15 p2309 N84-24855
The status of the simple fluid
15 p2314 N84-24886
Theoretical and experimental investigation of coherent structure in the turbulent boundary layer
[AD-A140517] 16 p2493 N84-25996
Three-dimensional non-self-similar crack growth in elastic-plastic materials 17 p2678 N84-27055
Material damage and structural instability analysis: Local and global stationary values of the strain energy density function 17 p2678 N84-27057
Analysis of fracture modes during extrusion and drawing of bimetal rods or wire
[DE84-009849] 20 p3157 N84-30051
Characterization of block copolymers based on poly(3,3 -bis(ethoxymethyl)oxetane) and other novel polyethers
[AD-A142606] 20 p3162 N84-30081
Crack problems for bonded nonhomogeneous materials under antiplane shear loading
[NASA-CR-173892] 22 p3609 N84-32863
Application of surface magnetoplasmons on semiconductor substrates
[AD-A143767] 23 p3830 N84-34293

LEIDEN UNIV. (NETHERLANDS).
Quadratic fields and factorization
08 p1225 N84-18002
Evolution of interstellar grains
18 p2947 N84-28684
The 3 micron ice band 18 p2948 N84-28692
Experiments on chemical and physical evolution of interstellar grain mantles 18 p2948 N84-28693
Ice in comet dust 18 p2949 N84-28702
Glycosaminoglycans in fetal bone mineralization
23 p3809 N84-34156
An experimental study of praseodymium intermetallic compounds at low temperatures
[DE83-704748] 24 p3884 N84-34612
A comprehensive ultraviolet extinction study: Grain model and grain evolution implications
24 p3982 N84-35232

LEIDEN UNIV. OBSERVATORY (NETHERLANDS).
Computational methods for ideal compressible flow
06 p0838 N84-15462

LENOX INST. FOR RESEARCH, INC., MASS.
A modified standard method for the determination of ozone residual concentration by spectrophotometry
[PB84-204684] 21 p3363 N84-31335

LETTERMAN ARMY INST. OF RESEARCH, SAN FRANCISCO, CALIF.
Acute intramuscular toxicity (LD50) of 1,1'-trimethylenebis (4-(Hydroxyiminomethyl) pyridinium bromide) monohydrate, (TMB-4) in male mice
[AD-A133148] 06 p0886 N84-15758
Laser retinal injury
[AD-A144187] 24 p3936 N84-34916
Visual function changes after laser exposure
[AD-A144210] 24 p3936 N84-34917

LEYBOLD-HERAEUS G.M.B.H., COLOGNE (WEST GERMANY).
Gifford-McMahon refrigerator with split cold head
06 p0820 N84-15346
Development of low noise vacuum vane pumps
[BMFT-FB-HA-84-009] 18 p2850 N84-28094

LEYBOLD-HERAEUS G.M.B.H., HANAU/MAIN (WEST GERMANY).
Development of a prototype cathode sputtering plant
[BMFT-FB-T-83-251] 10 p1472 N84-19617
LIBRARY OF CONGRESS, WASHINGTON, D. C.
Policy and legal issues involved in the commercialization of space
[GPO-21-495] 01 p0163 N84-11069
Quarks
[TB-83-7] 19 p3100 N84-29694
Women in the sciences
[TB-83-8] 19 p3114 N84-29784
Space activities of the United States, Soviet Union, and other launching countries/organizations, 1957-1983
[GPO-33-265] 23 p3696 N84-33425
LICK OBSERVATORY, MOUNT HAMILTON, CALIF.
Astronomical application of IR CID technology
[NASA-CR-166584] 18 p2844 N84-28057
LICK OBSERVATORY, SANTA CRUZ, CALIF.
Spectrophotometry of 2 complete samples of flat radio spectrum quasars
[NASA-CR-175343] 07 p1088 N84-17077
LIEGE UNIV. (BELGIUM).
Finite difference methods for convective-diffusive equations 06 p0835 N84-15432
The accuracy of the finite difference computations of recirculating free convective flows 06 p0839 N84-15471
Cohomology of the 3-differentiable of the Poisson algebra of a symplectic manifold 13 p2032 N84-23175
Analytic wave front and microlocal decomposition distributions 14 p2211 N84-24272
Computational techniques for hypersonic flows 16 p2442 N84-25666
LIEGE UNIV., COINTE-OUGREE (BELGIUM).
Comparative study of period determination methods 09 p1410 N84-19216
Statistical determination of the precision obtained by a photometric reduction algorithm 09 p1410 N84-19217
LIFE SYSTEMS, INC., CLEVELAND, OHIO.
Advanced air revitalization system testing
[NASA-CR-166540] 08 p1205 N84-17855
Static feed water electrolysis subsystem testing and component development
[NASA-CR-166539] 08 p1205 N84-17856
Electrochemical carbon dioxide concentrator subsystem development
[NASA-CR-166538] 08 p1205 N84-17857
LIGHTNING AND TRANSIENTS RESEARCH INST., ST. PAUL, MINN.
An experimental and theoretical investigation of an Nemp (nuclear electromagnetic pulse simulator) type fast rise lightning simulator
[AD-A141283] 18 p2890 N84-28346
LIGHTNING LOCATION AND PROTECTION, INC., TUCSON, ARIZ.
Lightning data analysis
[AD-A138136] 12 p1860 N84-22118
LILLE UNIV. (FRANCE).
The NEPHOS program: Preliminary results 10 p1536 N84-20061
LINCOLN LAB., MASS. INST. OF TECH., LEXINGTON.
Durable copper polyimide adhesive bonds
[AD-A130221] 01 p0049 N84-10319
A compact Q-K/band dual frequency feed horn
[AD-A130258] 01 p0063 N84-10416
Restructurable VLSI program
[AD-A131246] 01 p0072 N84-10472
High efficiency, low cost thin GaAs solar cells
[NASA-CR-168265] 01 p0102 N84-10662
Laser remote sensing of atmospheric pollutants
[AD-A130259] 01 p0103 N84-10670
A distributed signal processing architecture
[AD-A130227] 01 p0119 N84-10771
On perturbation theory
[AD-A130213] 01 p0131 N84-10856
Distributed sensor network
[AD-A131245] 01 p0140 N84-10919
An algorithm for multiple target tracking and data correlation
[AD-A131313] 02 p0273 N84-11786
Mean-square optimal, full-order compensation of structural systems with uncertain parameters
[AD-A131276] 02 p0281 N84-11841
Effect of frequency-averaging on estimation of clutter statistics used in setting CFAR detection thresholds
[AD-A131947] 03 p0360 N84-12343
Traffic alert and collision avoidance system (TCAS): A functional overview of active TCAS I
[AD-A132261] 04 p0482 N84-13171
Airborne Intelligent Display (AID) phase 1 software development
[ATC-123] 04 p0484 N84-13181
Wideband integrated Voice/Data technology
[AD-A132284] 04 p0521 N84-13421
Application of pseudoinversion to linear system identification with discrete measurements
[AD-A132283] 04 p0521 N84-13422
Close approaches between satellites in circular orbits
[AD-A133779] 05 p0642 N84-14224
Relativity and radars
[AD-A133791] 05 p0668 N84-14391
A programmable voice processor for fighter aircraft applications
[AD-A133780] 05 p0668 N84-14393
Laser photodeposition and photoetching study
[AD-A134095] 05 p0752 N84-14934
Earth coverage corrugated horns (44.5 GHz and 20.7 GHz)
[AD-A133241] 06 p0823 N84-15386
Distributed sensor network
[AD-A133250] 06 p0909 N84-15903
Channel tracking errors and the adaptive multiple-beam antenna
[AD-A134596] 07 p0994 N84-16443
Solid state research work of the Solid State Division at Lincoln Laboratory
[AD-A134594] 07 p1081 N84-17028
A search for Earth-crossing asteroids, supplement
[NASA-CR-173255] 07 p1092 N84-17101
Sampling mismatch and timing jitter in pulse-Doppler radar
[AD-A134683] 08 p1144 N84-17447
A search for Earth-crossing asteroids
[NASA-CR-175374] 08 p1245 N84-18139
A refined model for radar homing intercepts
[AD-A136108] 09 p1254 N84-18187
Multi-dimensional signal processing research program
[AD-A135732] 09 p1302 N84-18511
Perturbations on the reception characteristics of antennas on Diego Garcia due to the presence of a GEODSS site
[AD-A136107] 09 p1303 N84-18520
Optical detection loss due to air-borne salts on Diego Garcia
[AD-A136120] 09 p1346 N84-18792
More optimal searches
[AD-A136934] 10 p1436 N84-19387
Design of microwave beam-switching networks
[AD-A137240] 10 p1478 N84-19661
Numerical solutions to ill-posed and well-posed impedance boundary condition integral equations
[AD-A137353] 10 p1479 N84-19664
Protocol software for a packet voice terminal
[AD-A136938] 10 p1481 N84-19678
On mean Kullback-Leibler's information maximum likelihood principle and uncertain nonlinear systems
[AD-A137222] 10 p1569 N84-20279
Fundamentals of mode S parity coding
[DOT/FAA/PM-83/6] 11 p1642 N84-20736
The Lorentz Transformation and the radar Doppler equation
[AD-A137901] 11 p1643 N84-20745
On the estimation of spectral parameters using burst waveforms
[AD-A137932] 11 p1644 N84-20746
A CCD photometric camera for satellite observation
[AD-A137214] 11 p1660 N84-20833
Mode S surveillance netting
[AD-A138267] 12 p1768 N84-21531
Distributed estimation in the MIT/LL (Massachusetts Institute of Technology/Lincoln Laboratory) DSN (Distributed Sensor Networks) test-bed
[AD-P002897] 13 p1980 N84-22656
Evaluation of the comprehension of non-continuous, sped-up vocoded speech: A strategy for coping with fading HF (High Frequency) channels
[AD-A138650] 13 p1982 N84-22871
General aviation TCAS (Traffic Alert and Collision Avoidance System) avionics (GATCAS)
[AD-A139145] 14 p2104 N84-23618
Vocoder analysis based on properties of the human auditory system
[AD-A138660] 14 p2141 N84-23837
Coherent laser radar remote sensing
[AD-A139448] 14 p2151 N84-23885
Panoramic sky monitor (PANSKY)
[AD-A139440] 14 p2176 N84-24035
Wideband integrated voice/data technology
[AD-A139924] 15 p2321 N84-24937
Adaptive compensation for atmospheric turbulence effects on optical propagation 15 p2325 N84-24960
Restructurable VLSI program
[AD-A139959] 15 p2329 N84-24987
Expected energy method for electro-optical SNR calculations
[AD-A139984] 15 p2398 N84-25389
Solid state research
[AD-A140027] 15 p2413 N84-25488
Materials, Processes and Testing Laboratory. Summarizing module performance at MIT Lincoln Laboratory experimental photovoltaic test sites, 1977 - 1982
[DOE/ET-20279/188] 16 p2512 N84-26122
Defense switched network technology and experiments program
[AD-A140609] 17 p2653 N84-26968
Multi-dimensional signal processing research program
[AD-A141273] 18 p2917 N84-28497
High-quality silicon films prepared by zone-melting recrystallization 18 p2939 N84-28638
Earth coverage corrugated horns (44.5 GHz and 20.7 GHz)
[AD-P003410] 19 p3015 N84-29114
Lead salt diode lasers and development of tunable solid state lasers for remote sensing
[NASA-CR-173783] 19 p3029 N84-29207
Optimal design of high-efficiency single-junction and tandem concentrator space cells at 80 deg C and 100 SUNS 19 p3046 N84-29326
High-efficiency Conventional Cells Workshop 19 p3049 N84-29345
Angles-only, ground-based, initial orbit determination
[AD-A142994] 21 p3348 N84-31241
The discrimination of pitch in pulse trains and speech
[AD-A142996] 21 p3492 N84-32127
Solid state research
[AD-A142991] 21 p3504 N84-32204
A comparison of storm tracking and extrapolation algorithms
[DOT-FAA-PM-84/1] 23 p3800 N84-34091
The Lincoln Laboratory-Aerospace Medical Research Laboratory digital speech test facility
[AD-A144303] 24 p3894 N84-34662
VLSI (Very Large Scale Integrated) self-testing using exhaustive bit patterns
[AD-A144299] 24 p3898 N84-34681
Atmospheric refraction error and its compensation for passive optical sensors
[AD-A144377] 24 p3963 N84-35098
Electronic properties of grain boundaries in GaAs: A study of oriented bicrystals prepared by epitaxial lateral overgrowth
[AD-A144358] 24 p3967 N84-35118
LINCOM CORP., LOS ANGELES, CALIF.
User manual of the CATSS system (version 1.0) communication analysis tool for space station
[NASA-CR-171728] 08 p1142 N84-17431
Satellite Data Transmission (SDT) requirement
[NASA-CR-175231] 15 p2319 N84-24920
Autonomous Integrated Receive System (AIRS) requirements definition. Volume 1: Executive summary
[NASA-CR-175261] 22 p3575 N84-32646
Autonomous Integrated Receive System (AIRS) requirements definition. Volume 2: Design and development
[NASA-CR-175262] 22 p3576 N84-32647
Autonomous Integrated Receive System (AIRS) requirements definition. Volume 3: Performance and simulation
[NASA-CR-175263] 22 p3576 N84-32648
Autonomous Integrated Receive System (AIRS) requirements definition. Volume 4: Functional specification for the prototype Automated Integrated Receive System (AIRS)
[NASA-CR-175264] 22 p3576 N84-32649
LINKOEPING UNIV. (SWEDEN).
The photoelectrochemistry of conducting polymers
[DE84-010889] 20 p3164 N84-30093
LIPPKE (PAUL) G.M.B.H. UND CO. K.G., NEUWIED (WEST GERMANY).
Intelligent infrared sensor
[BMFT-FB-T-84-092] 22 p3658 N84-33189
LISTER HILL NATIONAL CENTER FOR BIOMEDICAL COMMUNICATIONS, BETHESDA, MD.
Videodisc premastering facility: Technical evaluation
[PB84-135821] 11 p1661 N84-20840
LITTLE (ARTHUR D.), INC., CAMBRIDGE, MASS.
Supercritical fluid regeneration of adsorbents
[PB83-207597] 01 p0058 N84-10377
Heat sealable, flame and abrasion resistant coated fabric
[NASA-CASE-MSC-18382-2] 05 p0658 N84-14324
Catalog of selected heavy duty transport energy management models
[NASA-CR-168299] 05 p0761 N84-14991
Computer science and technology: Future information processing technology, 1983
[PB83-257618] 06 p0896 N84-15820
An assessment of the benefits of using infrared thermography to measure the temperature of discrete electronic components operating in a vacuum
[AD-A134350] 07 p0997 N84-16485
Human capabilities 09 p1268 N84-18282

New applications for phosphoric acid fuel cells
[NASA-CR-168203] 09 p1341 N84-18757
Assessment of internal combustion engines as drivers for heat pumps
[DE84-005072] 10 p1502 N84-19821
Heat resistant protective hand covering
[NASA-CASE-MSC-20261-2] 13 p2022 N84-23113
Heat resistant protective hand covering
[NASA-CASE-MSC-20261-1] 18 p2915 N84-28484
Edge Stabilized Ribbon (ESR); stress, dislocation density and electronic performance 18 p2937 N84-28630
The development of a high-capacity instrument module heat transport system, appendixes
[NASA-CR-175260] 22 p3592 N84-32750
Methods for estimating physicochemical properties of inorganic chemicals of environmental concern
[AD-A144154] 24 p3917 N84-34799

LITTON MELLONICS SYSTEMS DEVELOPMENT DIV., FORT BENNING, GA.
Preliminary evaluation of the light pen as the key component in a microcomputer-based simulator
[AD-A132596] 05 p0719 N84-14712

LITTON SYSTEMS, INC., MORRIS PLAINS, N. J.
Manufacturing methods and technology engineering for 'Growth of large diameter Nd:YAG laser crystals'
[AD-A139902] 15 p2413 N84-25486
Preparation of mixed perovskite oxides for blue-green lasers
[AD-A142195] 19 p3111 N84-29768

LITTON SYSTEMS, INC., WOODLAND HILLS, CALIF.
Nuclear moment alignment, relaxation and detection mechanisms
[AD-A131546] 02 p0223 N84-11464
Rubidium frequency standard study
[AD-A134713] 08 p1151 N84-17492

LITTON TECHNISCHE WERKE, FREIBURG (WEST GERMANY).
Development of a redundant computer system for flight augmentation
[BMFT-FB-W-83-027] 10 p1431 N84-19356
Initial alignment and augmentation of the ARINC 705 strapdown AHRS LTR-81 16 p2447 N84-25699

LNK CORP., SILVER SPRING, MD.
Analysis of subpixel registration accuracy
03 p0394 N84-12570

LNR COMMUNICATIONS, INC., HAUPPAUGE, N. Y.
The 30 GHz communications satellite low noise receiver
[NASA-CR-168254] 04 p0517 N84-13398
The 20 GHz solid state transmitter design, impatt diode development and reliability assessment
[NASA-CR-174716] 23 p3741 N84-33715

LOCKHEED AIRCRAFT CORP., BURBANK, CALIF.
On-orbit spacecraft/stage servicing during STS life cycle
[NASA-CR-171775] 11 p1622 N84-20617

LOCKHEED-CALIFORNIA CO., BURBANK.
Primary electric power generation systems for advanced-technology engines 01 p0010 N84-10060
Preliminary Aeroelastic Design of Structures (PADS) methods development and application
02 p0170 N84-11117
Effects of Nacelle configuration/position on performance of subsonic transport
[NASA-CR-3743] 02 p0174 N84-11144
Low-temperature forming of beta titanium alloys
[NASA-CR-3706] 02 p0193 N84-11253
Flight service evaluation of advanced composite ailerons on the L-1011 transport aircraft
[NASA-CR-172246] 04 p0491 N84-13223
Development of the L-1011 four-dimensional flight management system
[NASA-CR-3700] 09 p1254 N84-18183
L-1011 testing with relaxed static stability
11 p1618 N84-20591
Fuel system design concepts for broad property fuels
14 p2109 N84-23645
Development of an advanced composite aileron for the L-1011 transport aircraft
[NASA-CR-3517] 18 p2810 N84-27836
Development and flight evaluation of an augmented stability active controls concept with a small horizontal tail
[NASA-CR-165951] 19 p2967 N84-28805
A study of stiffness, residual strength and fatigue life relationships for composite laminates
[NASA-CR-172211] 20 p3146 N84-29978
Flight service evaluation of Kevlar-49 epoxy composite panels in wide-bodied commercial transport aircraft
[NASA-CR-172344] 21 p3356 N84-31287
Development and flight evaluation of an augmented stability active controls concept with a small tail
[NASA-CR-173880] 22 p3537 N84-32395
Integrated technology wing design study
[NASA-CR-3586] 23 p3693 N84-33402

LOCKHEED CORP., BURBANK, CALIF.
Flight service evaluation of Kevlar-49 epoxy composite panels in wide-bodies commercial transport aircraft
[NASA-CR-166065] 01 p0030 N84-10188

LOCKHEED ELECTRONICS CO., HOUSTON, TEX.
Software development guidelines
[NASA-CR-171748] 09 p1366 N84-18919

LOCKHEED ELECTRONICS CO., PLAINFIELD, N. J.
Development of a generalized human-machine interface
[AD-P002888] 13 p1979 N84-22849
Geodesic cone antenna
[AD-P003408] 19 p3015 N84-29112

LOCKHEED ENGINEERING AND MANAGEMENT SERVICES CO., INC., HOUSTON, TEX.
AgRISTARS documents tracking list report
[E84-10030] 01 p0100 N84-10647
Accomplishments of the NASA Johnson Space Center portion of the soil moisture project in fiscal year 1981
[E84-10090] 10 p1521 N84-19961
Evaluation of a native vegetation masking technique
[E84-10108] 12 p1829 N84-21926
Investigation of TM band-to-band registration using the JSC registration processor 20 p3211 N84-30398
Preliminary evaluation of Thematic Mapper image data quality 20 p3214 N84-30415
Columbia: The first five flights. Entry heating data series. Volume 6: The upper leeside surface centerline
[NASA-CR-171795] 22 p3541 N84-32414
Columbia: The first 5 flights entry heating data series. Volume 5: The side fuselage and payload bay door
[NASA-CR-171732] 22 p3541 N84-32416

LOCKHEED ENGINEERING AND MANAGEMENT SERVICES CO., INC., LAS VEGAS, NEV.
Statistical correlations of surface wind data: A comparison between a National Weather Service station and a nearby aerometric network
[PB83-237263] 02 p0257 N84-11680

LOCKHEED-GEORGIA CO., MARIETTA.
LANN (Lockheed, AFWAL, NASA-Langley and NLR) wing test program: Acquisition and application of unsteady transonic data for evaluation of three-dimensional computational methods
[NASA-CR-174466] 01 p0005 N84-10032
Computer-Aided Design and Evaluation Techniques (CADET)
[AD-A130146] 01 p0121 N84-10784
A grid-embedding transonic flow analysis computer program for wing/nacelle configurations
[NASA-CR-166529] 04 p0480 N84-13158
A computer program for the calculation of three-dimensional transonic nacelle/inlet flowfields
[NASA-CR-166528] 04 p0480 N84-13159
Orthotropic hole element 06 p0859 N84-15595
POSTOP: Postbuckled open-stiffener optimum panels-theory and capability
[NASA-CR-172259] 09 p1329 N84-18679
Skin-stiffener interface stresses in composite stiffened panels
[NASA-CR-172261] 09 p1330 N84-18681
POSTOP: Postbuckled open-stiffener optimum panels, user's manual
[NASA-CR-172260] 09 p1330 N84-18682
Experimental study of the separating confluent boundary-layer. Volume 2: Experimental data
[NASA-CR-166018] 11 p1600 N84-20481
Basic experimental study of the coupling between flow instabilities and incident sound
[NASA-CR-3789] 11 p1728 N84-21275
Evaluation of 3-D graphics software: A case study
12 p1875 N84-22222
CIM's bridge from CADD to CAM: Data management requirements for manufacturing engineering
12 p1889 N84-22301

LOCKHEED MISSILE AND SPACE CO., BURBANK, CALIF.
Satellite services handbook. Interface guidelines
[NASA-CR-171774] 12 p1777 N84-21597

LOCKHEED MISSILES AND SPACE CO., HUNTSVILLE, ALA.
A survey of electric laser codes
[AD-A132352] 04 p0540 N84-13551
SSME structural dynamic model development
[NASA-CR-170960] 08 p1121 N84-17287
Manufacturing in space: Fluid dynamics numerical analysis
[NASA-CR-175401] 10 p1491 N84-19748
Space Shuttle main engine powerhead structural modeling, stresc and fatigue life analysis. Volume 1: Gasdynamic environment of the SSME HPFTP and HPOTP turbines
[NASA-CR-170999] 11 p1625 N84-20635
Space Shuttle main engine powerhead structural modeling, stress and fatigue life analysis. Volume 2: Dynamics of blades and nozzles SSME HPFTP and HPOTP
[NASA-CR-171000] 11 p1625 N84-20636
Space Shuttle main engine powerhead structural modeling, stress and fatigue life analysis. Volume 3: Stress summay of blades and nozzles at FPL and 115 percent RPL loads. SSME HPFTP and HPOTP blades and nozzles
[NASA-CR-171001] 11 p1625 N84-20637
Space Shuttle main engine, powerhead structural modeling, stress and fatigue life analysis. Volume 4: Summary of investigation of unscheduled events and special tasks
[NASA-CR-171002] 11 p1625 N84-20638
Diffuser/ejector system for a very high vacuum environment
[NASA-CASE-MRS-25791-1] 18 p2797 N84-27749
SPAR improved structure-fluid dynamic analysis capability, phase 2
[NASA-CR-171078] 19 p3021 N84-29153
Spartan Release Engagement Mechanism (REM) stress and fracture analysis
[NASA-CR-173779] 19 p3034 N84-29244
Preliminary engineering report for design of a subscale ejector/diffuser system for high expansion ratio space engine testing
[NASA-CR-171137] 21 p3354 N84-31273

LOCKHEED MISSILES AND SPACE CO., KENNEDY SPACE CENTER, FLA.
Contamination control and cleanliness level integrity for the Space Shuttle Orbiter PLB, payloads and facilities at KSC 24 p3865 N84-34498

LOCKHEED MISSILES AND SPACE CO., PALO ALTO, CALIF.
Solar magnetic fields study
[AD-A130491] 01 p0166 N84-11088
Radiative properties of advanced spacecraft heat shield materials
[NASA-CR-3740] 02 p0193 N84-11258
Evaluation of selective solar-absorber surfaces, phase 2
[DE84-000067] 04 p0559 N84-13685
Investigation of a para-ortho hydrogen reactor for application to spacecraft sensor cooling
[NASA-CR-175131] 06 p0916 N84-15957
Numerical techniques for high incidence reentry aerodynamics
[AD-A134178] 07 p0948 N84-16149
X-ray sensor development for magnetospheric research
[NASA-CR-173172] 07 p1006 N84-16525
Laser effects and vulnerability program. Liquid propellant characterization
[AD-A134584] 07 p1010 N84-16550
Effects of combined ultraviolet and oxygen plasma environment on spacecraft thermal control materials
10 p1446 N84-19449
The plasma sheet boundary layer
[AD-A137399] 10 p1537 N84-20069
Iron-copper metallization for flexible solar/cell arrays
12 p1841 N84-22000
Modeling effects of composition on the burn rates of nitrate ester-based energetic binders
13 p1951 N84-22685
Theory of optical bistability in collinear degenerate four-wave mixing 14 p2238 N84-24434
Design of a precision etalon position control system for a cryogenic spectrometer 15 p2348 N84-25093
Space station needs, attributes and architectural options: Midterm review, executive overview
[NASA-CR-173707] 18 p2806 N84-27818
User's guide to the NOZL3D and NOZLIC computer programs
[NASA-CR-159173] 19 p3020 N84-29150
Strategic blue-green communication filters
[AD-A142353] 20 p3173 N84-30151

LOCKHEED MISSILES AND SPACE CO., SUNNYVALE, CALIF.
Lessons learned from the development and manufacture of ceramic reusable surface insulation materials for the space shuttle orbiters 01 p0025 N84-10158
Satellite services system analysis study, part 3
[NASA-CR-171718] 02 p0183 N84-11188
Satellite services system analysis study: Propellant transfer system
[NASA-CR-174573] 02 p0183 N84-11189
A preliminary study of solar powdered aircraft and associated power trains
[NASA-CR-3699] 04 p0486 N84-13194
Aeroelastic stability analysis of the light weight tank LH-2 cable tray
[LMSC/D059511] 05 p0692 N84-14543
Attitude, control and stabilization
09 p1268 N84-18281

Power 09 p1269 N84-18288
Space station needs, attributes and architectural options. Volume 4, attachment 1: Task 2 and 3 mission implementation and cost
[NASA-CR-173330] 09 p1269 N84-18290
Space station needs, attributes and architectural options. Volume 2, attachment 2: Supporting data and analysis reports
[NASA-CR-173329] 09 p1269 N84-18291
Space station needs, attributes and architectural options. Volume 1: Executive summary NASA
[NASA-CR-172792] 09 p1269 N84-18292
Space station needs, attributes and architectural options. Volume 1, attachment 1: Executive summary NASA
[NASA-CR-173337] 09 p1270 N84-18293
Space station needs, attributes and architectural options. Volume 1, attachment 2: Supporting data and analysis reports
[NASA-CR-173336] 09 p1270 N84-18294
System engineering management guide
[AD-A136020] 09 p1398 N84-19129
Approximate numerical predictions of impact-induced structural responses 10 p1511 N84-19890
Practical solutions to simulation difficulties in subscale wind tunnel tests 14 p2097 N84-23581
A minimization method for engineering estimation
[AD-P002372] 14 p2195 N84-24163
Vibration Control Of Space Structures VCOSS A: High and low-authority hardware implementations
[AD-A139931] 15 p2281 N84-24702
Structural sizing of a solar powered aircraft
[NASA-CR-172313] 16 p2448 N84-25702
Space station needs, attributes and architectural options. Volume 3, task 1: Mission requirements
[NASA-CR-173712] 18 p2806 N84-27811
Space station needs, attributes and architectural options. Volume 3, attachment 1, task 1: Mission requirements
[NASA-CR-173716] 18 p2806 N84-27812
Space station needs, attributes and architectural options. Volume 4, task 2 and 3: Mission implementation and cost
[NASA-CR-173715] 18 p2806 N84-27813
Space station needs, attributes and architectural options: Study summary
[NASA-CR-173692] 18 p2806 N84-27814
Piecewise simulaton proton test of gallium arsenide and thin silicon solar cells 19 p3045 N84-29317
Transparent arrays: Progress toward higher efficiency 19 p3048 N84-29338
Multi-100kW: Planar low cost solar array development
[NASA-CR-171119] 20 p3234 N84-30529
ACOSS twelve (active control of space structures)
[AD-A143829] 23 p3701 N84-33458

LOCTITE S.A. (PROPRIETARY) LTD. (SOUTH AFRICA).
Applications for anaerobic adhesives, with particular reference to the replacement of conventional locking devices 09 p1291 N84-18433

LOGICA B.V., ROTTERDAN (NETHERLANDS).
Project management and quality assurance in a multiapplication environment 05 p0723 N84-14745

LOGICA LTD., LONDON (ENGLAND).
Static analysis package
[REPT-71.3794] 12 p1884 N84-22283

LOGICON, INC., LEXINGTON, MASS.
Analysis and programming for research in the physics of the upper atmosphere
[AD-A144203] 24 p3919 N84-34811

LOGICON, INC., SAN DIEGO, CALIF.
White paper: An overview of how the IFFN (Identification Friend, Foe, or Neutral) evaluation testbed system will be used
[AD-A141453] 19 p3004 N84-29042

LOGISTICS MANAGEMENT INST., WASHINGTON, D. C.
The aircraft availability model: Conceptual framework and mathematics
[AD-A132927] 05 p0626 N84-14115
Local automation model: Functional description
[AD-A133389] 06 p0935 N84-16077
A strategy for improving overhead cost control
[AD-A134661] 08 p1238 N84-18092
Analysis of incentives for productivity-enhancing investment
[AD-P002770] 13 p2053 N84-23317
Improved management of support resources
[AD-P002808] 13 p2059 N84-23354
A concept for mission-oriented planning for system acquisition at the Defense Communications Agency
[AD-P002823] 13 p2061 N84-23368
System safety in aircraft acquisition
[AD-A141492] 19 p2960 N84-28763
Local automation model: System specification
[AD-A141503] 19 p3116 N84-29798

LONDON UNIV. (ENGLAND).
The alpha-crustacyanin, the lobster carapace astaxanthin-protein 23 p3804 N84-34122

LORD CORP., ERIE, PA.
Active attenuation of propeller blade passage noise
[NASA-CR-172386] 20 p3290 N84-30886

LOS ALAMOS SCIENTIFIC LAB., N. MEX.
Melting of metals above 100 GPa
[DE83-015261] 01 p0046 N84-10299
Performance of the perfluorocarbon liquid/plastic film capacitor technology in repetitive discharge pulse power service
[DE83-012502] 01 p0073 N84-10477
Design of a 20-MJ coaxial generator
[DE83-014152] 01 p0073 N84-10481
Optical properties of explosive-driven waves in noble gases
[DE83-015236] 01 p0082 N84-10536
Development of a point-electrode conductivity salinometer with high-spatial-resolution for use in very-saline solutions
[DE83-011170] 01 p0085 N84-10550
High-repetition-rate amplification of 16 (SIGMA) micron radiation
[DE83-012782] 01 p0087 N84-10569
Use of fiber optics and laser-induced fluorescence for remote measurements of UF6 in strong rotation
[DE83-014195] 01 p0088 N84-10575
Alignment telescope for Antares
[DE83-014179] 01 p0088 N84-10576
Factors affecting plastic instability and sheet formability
[DE83-011146] 01 p0097 N84-10631
Creep and thermal effects in aging solids
[DE83-012673] 01 p0098 N84-10635
Statistical crack mechanics
[DE83-014124] 01 p0098 N84-10637
Interactive modeling of scintillation pulses by visual overlay of computed pulse shapes with the raw data
[DE83-012668] 01 p0124 N84-10805
Future directions in large-scale scientific computing
[DE83-013229] 01 p0124 N84-10807
Coherent Anti-Stokes Raman Scattering (CARS) detection or hot atom reaction product internal energy distributions
[DE83-012684] 01 p0142 N84-10936
Effects of vane-tip geometry on the electric fields in radio-frequency quadrupole linacs
[DE83-013214] 01 p0143 N84-10937
New program for the least-squares calculation of atomic energy levels
[DE83-014076] 01 p0143 N84-10941
Performance demonstration of a high-power space-reactor heat-pipe design
[DE83-012688] 01 p0145 N84-10952
Space reactor preliminary mechanical design
[DE83-012689] 01 p0145 N84-10953
Neutronic and thermal design considerations for heat-pipe reactors
[DE83-012690] 01 p0145 N84-10954
Initial evaluation of molybdenum-rhenium alloy for reactor heat pipes
[DE83-012687] 01 p0145 N84-10955
Ion-source and ion-accelerator development at Los Alamos
[DE83-014123] 01 p0146 N84-10959
Fast, non-linear optical-scattering spectroscopy in shock-compressed organic liquids
[DE83-007548] 01 p0148 N84-10972
Studies of an inductively coupled plasma with a Fourier-transform spectrometer
[DE83-014194] 01 p0151 N84-10991
Recent results from the ZT-40M reversed-field pinch program
[DE83-014149] 01 p0151 N84-10993
Fluctuations in 3 Los Alamos experiments
[DE83-014158] 01 p0151 N84-10994
Evidence for stacking faults in multiaxial strained alpha-brass
[DE83-014118] 01 p0155 N84-11019
DATATRIEVE used in a control-system database
[DE83-014187] 01 p0162 N84-11064
Space Nuclear-Safety Program
[DE83-016351] 02 p0186 N84-11211
Raman spectroscopies in shock-compressed materials
[DE83-014170] 02 p0190 N84-11236
Los Alamos mini-review. Numerical calculations of hydrogen-air combustion
[DE83-016508] 02 p0191 N84-11240
Organotin piezo- and pyroelectric polymer films
[DE83-009903] 02 p0201 N84-11306
Kinetics of structural relaxation in metallic glasses
[DE83-015924] 02 p0201 N84-11309
Experimental investigation of explosive-driven plasma-compression opening switches
[DE83-0124200] 02 p0214 N84-11399
InP:Fe picosecond photoconductors
[DE83-015237] 02 p0215 N84-11410
Flow-through boundary conditions for time-dependent, buoyancy-influenced flow simulations using low order finite elements
[DE83-010256] 02 p0218 N84-11430
Numerical simulation of the countercurrent flow in a gas centrifuge
[DE83-013323] 02 p0218 N84-11432
Single-pulse coherent Raman spectroscopy in shock-compressed benzene
[DE83-014140] 02 p0219 N84-11433
Three-dimensional computer modeling of a shock-recovery experiment
[DE83-015915] 02 p0220 N84-11441
Mach disc formation in cylindrical recovery systems
[DE83-015912] 02 p0220 N84-11442
The velocity of sound behind strong shock waves in 2024 Al
[DE83-015927] 02 p0220 N84-11446
Optical emission of exploding-film and wire-initiated discharges
[DE83-014154] 02 p0223 N84-11466
Smarter radiation monitors for safeguards and security
[DE83-015259] 02 p0224 N84-11468
Photoconductive power switches
[DE83-015239] 02 p0224 N84-11469
Optically pumped ultraviolet and infrared lasers driven by exploding metal films and wires
[DE83-014169] 02 p0226 N84-11484
High-efficiency free-electron-laser experiments
[DE83-015218] 02 p0227 N84-11487
A novel 15.9-micron source
[DE83-015234] 02 p0227 N84-11490
Modeling of modification experiments involving neutral-gas release
[DE83-012785] 02 p0250 N84-11634
Creating unstable velocity-space distributions with barium injections
[DE83-012783] 02 p0250 N84-11635
Draft remarks for the IFIPS Congress 1983 panel on how to obtain high performance for high-speed processors
[DE83-012669] 02 p0277 N84-11814
Momentum-control volumes for finite-difference codes
[DE83-007566] 02 p0282 N84-11849
Chaos in semiclassical model of multiphoton excitation of spherical top molecules
[DE83-014201] 02 p0289 N84-11897
Multi-isotopic gamma ray assay system for alpha contaminated waste
[DE83-015254] 02 p0292 N84-11917
Auger and depth profile analysis of synthetic crystals for dispersion of soft X-rays
[DE83-015257] 02 p0293 N84-11918
Radiation damage in optical fibers
[DE83-012740] 02 p0295 N84-11932
Single-mode fiber-optic sensor for high currents
[DE83-014163] 02 p0295 N84-11933
The possible unifying effect of the dynamic theory
[DE83-014082] 02 p0301 N84-11973
Special functions and group theory in theoretical physics
[DE83-015642] 02 p0301 N84-11975
Effects of nonlinear loads on antennas and scatterers 03 p0365 N84-12376
Megavolt pulse transformer powered by a fast plate generator
[DE83-014189] 03 p0366 N84-12384
Progress in developing repetitive pulse systems utilizing inductive energy storage
[DE83-015167] 03 p0367 N84-12388
Novel optical pin using microballoons
[DE83-015222] 03 p0367 N84-12391
Subharmonic buncher for the Los Alamos free-electron laser oscillator experiment
[DE83-015220] 03 p0380 N84-12474
Infrared-laser spectroscopy using a long-pathlength absorption cell
[DE83-014197] 03 p0381 N84-12480
Electron-beam diagnostics for the Los Alamos free-electron oscillator experiment
[DE83-017230] 03 p0381 N84-12481
Selective laser ionization for mass-spectral isotopic analysis
[DE83-017303] 03 p0381 N84-12483
Evolution of long pulses in a tapered wiggler free-electron laser
[DE83-017235] 03 p0381 N84-12484
The Los Alamos free-electron-laser oscillator experiment: Plans and present status
[DE83-017290] 03 p0382 N84-12485
Proceedings of the 16th LAMPF Users-Group Meeting
[DE83-013215] 03 p0382 N84-12488

Microearthquakes induced during hydraulic fracturing at the Fenton Hill HDR site: The 1982 experiments
[DE83-014191] 03 p0408 N84-12672

Variations in task and the ideal observer
[DE83-015394] 03 p0416 N84-12723

Linked state machines
[DE83-4000123] 03 p0419 N84-12736

Review of the ANSI metafile and virtual device interface standardization activities
[DE83-015925] 03 p0419 N84-12737

Vectorized Monte Carlo photon transport
[DE83-014807] 03 p0434 N84-12843

Hadronic multiplicity distributions: Example of a universal stochastic mechanism
[DE83-015232] 03 p0434 N84-12845

Solitons and polarons in quasi-one dimensional conducting polymers and related materials
[DE83-015233] 03 p0435 N84-12853

Space nuclear safety program
[DE83-014070] 03 p0437 N84-12869

Space reactors: Past, present and future
[DE83-011177] 03 p0437 N84-12870

Developing a 500-eV proton beam
[DE83-012781] 03 p0439 N84-12880

Effect of RF structure on cumulative beam breakup
[DE83-017302] 03 p0439 N84-12882

Longitudinal space-charge effects in bunched beams
[DE83-017305] 03 p0440 N84-12888

Survey of flash X-ray techniques and applications
[DE83-017234] 03 p0442 N84-12904

High-speed videography combined with an x-ray image intensifier for dynamic radiography
[DE83-017233] 03 p0442 N84-12905

Computational synergetics and innovation in wave, vortex, and plasma cloud dynamics
[DE83-015252] 03 p0445 N84-12928

Recent results in the Los Alamos compact torus program
[DE83-014147] 03 p0446 N84-12930

Muon spin relaxation in ferromagnetic PdMn
[DE83-012659] 03 p0453 N84-12979

Dense molecular thermodynamics
[DE83-015216] 03 p0457 N84-13006

Electron heating at interplanetary shocks
03 p0470 N84-13096

Solar wind minor ions: Recent observations
03 p0472 N84-13110

Plasma properties of driver gas following interplanetary shocks observed by ISEE-3 03 p0474 N84-13123

Interaction of the plasma tail of comet Bradfield 1979L on 1980 February 6 with a possibly flare-generated solar-wind disturbance 03 p0475 N84-13126

Photon damping in cosmic-ray acceleration in active galactic nuclei
[DE83-011320] 03 p0476 N84-13133

Physics at the proposed National Underground Science Facility
[DE84-001345] 04 p0488 N84-13203

Surface science study of selective ethylene epoxidation catalyzed by the Ag(110) surface: Structural sensitivity
[DE84-001324] 04 p0494 N84-13246

Flame fronts with complex chemical networks
[DE84-001175] 04 p0496 N84-13255

Low-hysteresis materials for magnetic refrigeration: Gd sub 1-x/Er sub x/Al2
[DE84-001685] 04 p0505 N84-13307

Structural performance of ceramics in a high-fluence fusion environment
[DE84-001311] 04 p0508 N84-13329

Relaxation in spin glasses: Similarities and differences from ordinary glasses
[DE84-001719] 04 p0508 N84-13330

Electrical and thermal modeling of railguns
[DE84-001361] 04 p0515 N84-13387

Microwave generators: Oscillating virtual cathodes and reflexing electrons
[DE84-001346] 04 p0522 N84-13433

Propagation of a radio-frequency pulsed signal over the Earth. The JOLLY programs
[DE84-000109] 04 p0523 N84-13439

Pulsed-power diode generation of high-power microwaves
[DE84-001344] 04 p0523 N84-13440

High-Q perpendicular-biased ferrite-tuned cavity
[DE83-017291] 04 p0529 N84-13478

Vapor-phase heat-transport system
[DE84-001341] 04 p0535 N84-13516

Equations governing the liquid-film flow over a plane with heat flux and interfacial phase change
[DE83-017528] 04 p0536 N84-13525

Evidence for a hot electron flux limit in laser-produced plasma experiments
[DE84-001365] 04 p0540 N84-13555

Laser-plasma interaction at 10.6 microns
[DE84-001038] 04 p0541 N84-13560

Design of a high-brightness, low-jitter, short-pulse laser for plasma diagnostics
[DE84-000129] 04 p0541 N84-13564

Approach to single-molecule detection by laser-induced fluorescence
[DE84-001338] 04 p0542 N84-13572

Chemical conversion surfaces for solar-energy applications
[DE84-000107] 04 p0558 N84-13681

Nevada test site seismic-telemetry measurements
[DE84-000447] 04 p0564 N84-13719

Variational method for adaptive grid generation
[DE83-017312] 04 p0583 N84-13850

Network file-storage system
[DE84-001068] 04 p0585 N84-13863

Remarks on the Kuramoto-Sivashinsky equation
[DE84-001018] 04 p0590 N84-13901

PR beam-pulse formation and control
[DE84-001354] 04 p0596 N84-13936

Recent developments in the understanding of pion-nucleus scattering
[DE84-001017] 04 p0597 N84-13942

Simulation studies on a novel betatron injection scheme
[DE84-001337] 04 p0598 N84-13946

Space-time evolution of the nonlinear 2-stream instability
[DE84-001336] 04 p0599 N84-13950

ARCHSIM: A proton-synchrotron tracking program, including longitudinal space charge
[DE84-001335] 04 p0599 N84-13952

PATH: A lumped-element beam-transport simulation program with space charge
[DE84-001330] 04 p0599 N84-13953

Filamentation instability of ion acoustic waves driven by a scattered relativistic beam
[DE84-001323] 04 p0599 N84-13956

Simulations of the effects of mobile ions on the relativistic beam-plasma instability for intense beams
[DE84-000369] 04 p0607 N84-14003

Energetic plasma-beam propagation in weak and strong magnetic fields
[DE84-001362] 04 p0607 N84-14005

High-density Z-pinch research
[DE83-017311] 04 p0608 N84-14013

Study on diffusion of the vertical magnetic field in the toroidal stabilizing shell of the ZT-40M reversed-field-pinch device
[DE83-016353] 04 p0610 N84-14023

Materials needs for compact fusion reactors
[DE84-001366] 04 p0611 N84-14031

Study of defects produced in tungsten by 800-MeV protons using field-ion microscopy
[DE84-001359] 04 p0613 N84-14048

Revision of the statistical mechanics of phonons to include phonon line widths
[DE83-017229] 04 p0614 N84-14051

Prediction of high-pressure phase transitions in solid N2 and the pressure dependence of the intramolecular vibrational frequencies
[DE83-015260] 04 p0615 N84-14057

Review of astrophysical research at Los Alamos
[DE83-017304] 04 p0620 N84-14091

Nuclear physics problems for accreting neutron stars
[DE83-017297] 04 p0620 N84-14092

Microprobe analyses of rare-earth-element fractionation in meteoritic minerals
[DE83-017326] 04 p0621 N84-14097

Inverse comptonization vs. thermal synchrotron
[DE84-001039] 04 p0622 N84-14105

Modeling of modification experiments involving neutral gas release 05 p0640 N84-14209

Creating unstable velocity-space distributions with barium injections 05 p0640 N84-14214

Novel hard metal compositions and properties
[DE84-001736] 05 p0656 N84-14310

Measured Hugoniot states of a 2-element fluid, O-2 + N sub 2 prime, near 2 Mg/m-3
[DE83-015910] 05 p0662 N84-14349

Alternative gaseous-fuels safety assessment
[DE84-001735] 05 p0662 N84-14350

Using photoconductivity to improve image-tube gating speeds
[DE84-001732] 05 p0676 N84-14443

The 240-kA switch with potential application in electromagnetic-launch systems
[DE84-001174] 05 p0677 N84-14449

New-generation low-power radiation survey instruments
[DE84-001716] 05 p0685 N84-14506

CRAY-1 instruction analysis: A comparison of two methods
[DE83-012778] 05 p0730 N84-14794

Modeling the user in intelligent user interfaces
[DE84-012664] 05 p0730 N84-14795

The MIXPAC: A subroutine package for calculating equations of state for equilibrium mixtures of materials
[DE84-002302] 05 p0730 N84-14796

Vectorization of algorithms for solving systems of elliptic difference equations
[DE83-014125] 05 p0738 N84-14848

White Horse program review, FY 82
[DE84-002290] 05 p0745 N84-14896

High-speed videography for optical and X-ray imaging
[DE84-002272] 05 p0748 N84-14910

Study of limiter damage in a magnetic-field error region of the ZT-40M experiment
[DE84-001711] 05 p0750 N84-14924

Filamentation instability associated with a relativistic beam and a finite-temperature, collisional plasma
[DE84-002303] 05 p0750 N84-14928

Impurities in the heavy-Fermion superconductor UBe13
[DE84-001731] 05 p0755 N84-14951

Calculation of structures and magnetic orientations in solid alpha- and beta-O-2 as a function of pressure
[DE83-015215] 05 p0756 N84-14958

Prediction of pressure induced structural phase transitions and internal mode frequency changes in solid N2+
[DE83-014279] 05 p0756 N84-14960

Benchmarking unstructured systems
[DE83-011175] 05 p0758 N84-14969

Some observable indicators of s-process environments
[DE84-001720] 05 p0763 N84-15006

Role of the radiation pressure gradient in giant and supergiant star evolution
[DE84-001715] 05 p0763 N84-15007

The 3-10 keV and 0.1- to 2-MeV observations of 4 gamma-ray bursts
[DE84-001334] 05 p0766 N84-15022

Production and characterization of beta-silicon carbide and alpha-silicon nitride whiskers for ceramic matrix composites
[LA-9650-MS] 06 p0797 N84-15197

Equation of state for the detonation products of several simple explosives
[DE83-017266] 06 p0813 N84-15290

LARC: Computer codes for Lagrangian analysis of stress-guage data to obtain decompositon rates through correlation to thermodynamic variables
[DE84-002404] 06 p0813 N84-15292

The theory of an active magnetic regenerative refrigerator 06 p0821 N84-15351

Fabrication of a hermetically sealed connector
[DE84-002322] 06 p0830 N84-15402

Nanosecond image-shuttering studies at Los Alamos National Laboratory
[DE84-001733] 06 p0830 N84-15405

Optical diagnostics for condensed-phase shock-compressed molecular systems
[DE84-001172] 06 p0845 N84-15510

Two-phase flow studies
[DE84-001727] 06 p0845 N84-15511

Application of two-dimensional discrete-ordinates methods to multiple scattering of laser radiation
[AD-A133258] 06 p0849 N84-15539

Numerical experiments with CONCHAS-SPRAY: Compression stroke of an external chamber diesel engine
[DE84-002321] 06 p0853 N84-15561

Numerical simulations of convectively excited gravity waves
[DE84-001867] 06 p0879 N84-15718

Microinstabilities in the high latitude F region: A brief review
[DE84-001709] 06 p0879 N84-15719

Numerical methods for tracking interfaces
[DE84-001730] 06 p0902 N84-15854

Scattering and absorption of light by soot particles
[DE84-002308] 06 p0918 N84-15967

A new numerical method for the transient gas-dyanmic code EVENT
[LA-9594-MS] 06 p0920 N84-15977

A multipurpose production controller for plasma physics codes
[LA-9477-MS] 06 p0920 N84-15978

Superconducting ground state of a strongly interacting electron system: UBe13
[DE84-001708] 06 p0923 N84-16003

Structural studies at elevated pressure and reduced temperatures using synchrotron radiation: Application to Ce.8La.1Th.1
[DE84-001793] 06 p0924 N84-16007

Electron-electron interactions and broken symmetry in one dimension
[DE84-001704] 06 p0925 N84-16014

Processing time using Datatrieve-11, clunks, and FORTRAN
[DE84-001706] 06 p0935 N84-16081

Energy distributions and yields of secondary ions and electrons emitted by GIOTTO during Halley encounter
[DE84-001661] 06 p0940 N84-16105
Phototransformation of polycyclic aromatic hydrocarbons into stable, mutagenic components
[DE84-001747] 07 p0966 N84-16261
Numerical simulation and practical testing of a rotation-symmetric ion source for gas mass spectrometers
[DE84-002925] 07 p0970 N84-16288
Resonance ionization mass spectroscopy at Los Alamos National Laboratory
[DE84-001705] 07 p0972 N84-16297
SAMPLE: Software for VAX FORTRAN execution timing
[DE84-003819] 07 p1055 N84-16834
Deuteron forward photodisintegration: Meson currents and relativity
[DE84-001314] 07 p1072 N84-16968
Physics with LAMPF 2
[DE83-016338] 07 p1073 N84-16972
Space nuclear safety program, April 1983
[DE84-002325] 07 p1074 N84-16978
Space nuclear safety program, May 1983
[DE84-002324] 07 p1074 N84-16979
Space nuclear safety program, June 1983
[DE84-003555] 07 p1074 N84-16980
Space Nuclear Safety Program, March 1983
[DE84-002259] 07 p1074 N84-16981
Modular stellarator reactor: A Fusion power plant
[DE84-002268] 07 p1077 N84-17001
Plasma effects on Heliac configurations: A preliminary investigation
[DE84-002299] 07 p1077 N84-17002
Database transfers between several systems
[DE84-003841] 07 p1085 N84-17056
Status and future of the use of numerical and factual data 07 p1086 N84-17060
Comparisons between observational color-magnitude diagrams and synthetic cluster diagrams for young star clusters in the Magellanic Clouds
[DE84-001870] 07 p1089 N84-17085
Log N-log S in inconclusive
[NASA-CR-173153] 07 p1093 N84-17111
Gamma-burst emission from neutron-star accretion
[NASA-TM-85436] 07 p1094 N84-17112
Joint timing analysis of A0535 + 26 at 1980 outburst
[DE84-001320] 07 p1094 N84-17113
Ten years of Vela X-ray observations
[DE84-001302] 07 p1094 N84-17114
Defense, energy, and basic research at the Los Alamos National Laboratory
[DE83-015241] 07 p1094 N84-17116
Energy distributions and yields of secondary ions and electrons emitted by GIOTTO during Halley encounter
08 p1118 N84-17272
Equation of state of fluid NH-3 from P-V-T and ultrasound measurements to 12 kbar
[DE83-015913] 08 p1125 N84-17316
Manual of analytical methods for radiobioassay
[DE84-003978] 08 p1126 N84-17318
Detection of elements in biomedical fluids by laser-induced breakdown spectroscopy
[DE84-003838] 08 p1126 N84-17319
Acquisition systems for heat transfer measurement
[DE84-003779] 08 p1160 N84-17551
Precisely aligned internal magnetic probes for the reversed-field pinch experiment, ZT-40
[DE84-003704] 08 p1233 N84-18058
Fourier transform and polychromator studies of the inductively coupled plasma
[DE84-003975] 08 p1233 N84-18059
Using the surface tension to estimate the condensate density of superfluid He-4
[DE83-011325] 08 p1236 N84-18077
Probabilistic planning and budgeting for R and D programs involving activities of high uncertainty
[DE84-002310] 08 p1238 N84-18093
Multidomain, multirecord-type Datatrieve-11 databases
[DE84-001707] 08 p1241 N84-18110
Stability of the low degree 5 minute solar oscillations
[DE84-003786] 08 p1246 N84-18143
The ISPM solar-wind plasma experiment
09 p1261 N84-18231
Frictional hot-spots and statistical crack mechanics
[DE84-003784] 09 p1290 N84-18423
Fundamental research on explosives
[DE84-001201] 09 p1290 N84-18425
Fuel cells for transportation applications
[DE84-003969] 09 p1310 N84-18564
Prospects for single-molecule detection in liquids by laser-induced fluorescence
[DE84-001702] 09 p1324 N84-18647
Passive solar design procedures for Naval installations
[AD-A136329] 09 p1341 N84-18760

Anomalous resistivity at the field null of the FRC: A quasi-linear expression based upon flute-type modes
[DE84-003556] 09 p1393 N84-19094
Constraints on stellar evolution from pulsations
[DE84-003787] 09 p1415 N84-19261
Some investigations about the Carson opacities
[DE84-003785] 09 p1415 N84-19262
Line width and line shape analysis in the inductively coupled plasma by high resolution Fourier transform spectrometry
[DE84-004358] 10 p1457 N84-19513
Pattern formation by shock processes
[DE83-015249] 10 p1469 N84-19592
Los Alamos real-time and digital radiography plans
[DE84-004327] 10 p1482 N84-19685
Smart instrumentation development at Los Alamos
[DE84-003821] 10 p1499 N84-19798
Development of CO2 and KrF gas lasers as drivers for inertial confinement fusion
[DE84-004329] 10 p1501 N84-19810
Influence of a plasma during laser welding
[DE84-004414] 10 p1502 N84-19820
Plasma sheet behavior during substorms
[DE84-003833] 10 p1537 N84-20070
Implications of the 1100 UT 22 March, 1979 CDAW 6 substorm event for the role of magnetic reconnection in the geomagnetic tail
[DE84-004335] 10 p1537 N84-20071
Cray/VAX interactive graphics system
[DE84-003826] 10 p1564 N84-20249
High density Z-pinch research
10 p1582 N84-20371
Plasma engineering design of a Compact Reversed-Field Pinch Reactor (CRFPR)
[DE84-004334] 10 p1586 N84-20394
Electrical design of a high current density air-core reversed-field pinch ZTP
[DE84-004321] 10 p1586 N84-20395
Poloidal field system design for the ZT-H reversed field pinch experiment
[DE84-004328] 10 p1586 N84-20396
Toroidal magnetic field system for 2-MA reversed-field pinch experiment
[DE84-004322] 10 p1586 N84-20399
Solar flares: An extreme of reconnection
[DE84-004413] 10 p1597 N84-20467
Development of the VLS process for SiC whisker growth
[DE84-004376] 11 p1628 N84-20652
Development of the CARS method for measurement of pressure and temperature gradients in centrifuges
[DE84-006321] 11 p1629 N84-20660
Stability of planar multifluid plasma equilibria by Arnold's method
[DE84-004332] 11 p1655 N84-20801
First operation of the Los Angeles free-electron laser oscillator
[DE84-006024] 11 p1664 N84-20856
Test techniques for model development of repetitive service energy storage capacitors
[DE84-004312] 11 p1674 N84-20925
Particle and field signatures of substorms in the near magnetotail
[DE84-003777] 11 p1683 N84-20984
Family of almost periodic Schroedinger operators
[DE83-017308] 11 p1717 N84-21199
Semigroup associated with a quasi-linear system in which the coupling is linear
[DE84-004227] 11 p1719 N84-21210
Obtaining the zero-temperature equation of state from shock data
[DE84-006696] 11 p1728 N84-21272
Current sensing in magnetic fusion experiments by Faraday rotation in single-mode optical fibers
[DE84-004326] 11 p1732 N84-21298
Nonlinear optics: Where do we go from here
[DE84-006028] 11 p1732 N84-21300
Stark spectroscopy of hydrogen lines in turbulent plasma. 1: Low-frequency turbulence
[DE84-004443] 11 p1737 N84-21333
Magnetic field topologies of the relaxed states of turbulent discharges
[DE84-004330] 11 p1737 N84-21334
Experiment in benchmarking database systems
[DE84-003840] 11 p1750 N84-21423
Computer simulation of reconnection in planetary magnetospheres
[DE84-001389] 11 p1758 N84-21479
Equation of state for titanium dihydride
[DE84-006698] 12 p1794 N84-21698
Effect of hydrogen on the mechanical properties of a U5.7Nb alloy
[DE84-006679] 12 p1799 N84-21732
X-ray imaging of biological specimens
[DE84-006287] 12 p1819 N84-21855

State variable method of fault tree analysis
[DE84-006007] 12 p1824 N84-21891
Multidimensional modeling of atmospheric effects and surface heterogeneities on remote sensing
12 p1833 N84-21945
Stratospheric tritium sampling
[DE84-006074] 12 p1848 N84-22045
How to use TRIX RED to format equations for REDPP and other tricks
[DE84-006326] 12 p1884 N84-22260
Space nuclear safety program
[DE84-003558] 12 p1904 N84-22398
Space nuclear safety program
[DE84-006693] 12 p1904 N84-22399
Optical engineering at Los Alamos: A history
[DE83-009905] 12 p1908 N84-22431
Analysis of anelastic relaxations controlled by a spectrum of relaxation times
[DE84-006014] 12 p1915 N84-22479
Lattice for a low-field superconducting super collider
[DE84-006022] 12 p1916 N84-22482
Dipole aperture and superconductor requirements
[DE84-006011] 12 p1916 N84-22483
An electrodynamic interpretation of virtual-cathode oscillations
[DE84-008001] 14 p2142 N84-23846
Three-dimensional computer modeling of dynamic reconnection in the magnetotail
[DE84-007480] 14 p2176 N84-24037
Space Nuclear Safety Program, September 1983
[DE84-007989] 14 p2224 N84-24344
Application for surveying technology for the alignment of large optical systems
[DE84-006005] 14 p2225 N84-24353
Microtheory of collisionless shock current layers
[DE84-007500] 14 p2229 N84-24366
Acoustically compensated two-wavelength interferometry for plasma density measurements: One-dimensional theory and applications
[DE84-007983] 14 p2229 N84-24368
Parameters of a possible FRC adiabatic compression experiment
[DE84-007487] 14 p2230 N84-24371
Electrical conductivity of an arbitrarily dense plasma
[DE84-008006] 14 p2230 N84-24374
Translation of field-reverse configurations in the FRX C/T experiment
[DE84-007489] 14 p2230 N84-24376
Coaxial slow source: A quasi-static FRC formation concept
[DE84-007476] 14 p2230 N84-24377
Isothermal calorimetric investigation of a reversible reaction in rapidly solidified Fe40Ni40B20
[DE84-006013] 15 p2298 N84-24791
Solutions in synthetic and biological polymers
[DE84-007505] 15 p2302 N84-24817
Laser diagnostics of materials and chemistry
[DE84-007469] 15 p2339 N84-25043
Patterns of energy levels and spectra for polyatomic molecules
[DE84-007501] 15 p2405 N84-25436
Inappropriateness of the finite Larmor radius model for the tilting mode in field reversed configurations
[DE84-007467] 15 p2411 N84-25473
One-dimensional transport code for field-reversed configurations
[DE84-007449] 15 p2411 N84-25477
Sustainment dynamo reexamined: Nonlocal electrical conductivity of plasma in a stochastic magnetic field
[DE84-007485] 15 p2412 N84-25478
Transport, stability and relaxation of a Spheromak
[DE84-007285] 15 p2412 N84-25479
Assessment of fuel cell propulsion systems
[DE84-006323] 15 p2420 N84-25536
Cooling-load implications for residential passive solar heating systems 16 p2513 N84-26126
Status of the class A performance evaluation program
16 p2514 N84-26134
Convective heat transfer inside passive solar buildings
16 p2517 N84-26154
Vapor-phase heat-transport system
16 p2518 N84-26161
Interaction of the neutral deuterium flux with a field-reversed configuration
[DE84-007488] 16 p2559 N84-26415
Evaluation of proposed human subject certification tests for self-contained breathing apparatus
[PB84-172212] 17 p2748 N84-27447
Initiation and accretion experiment on the HDZP
[DE84-009997] 18 p2933 N84-28601
Magnetic refrigeration: The promise and the problems
[DE84-007481] 19 p3002 N84-29028
Plant and operational features of the BPA 30 MJ superconducting magnetic energy storage system
[DE84-006006] 19 p3011 N84-29086

Principles and prospects for micro heat pipes
[DE84-006035] 19 p3020 N84-29149
Capabilities of broadly-tunable free-electron lasers
[DE84-009998] 19 p3030 N84-29219
Learning about supercomputers on a microcomputer with no keyboard: A science museum exhibit
[DE84-001177] 19 p3073 N84-29496
Computer graphics support service
[DE84-010001] 19 p3079 N84-29540
Role of magnetic reconnection phenomena in the reversed-field pinch
[DE84-007470] 19 p3108 N84-29748
Ceramics for fusion devices
[DE84-011409] 20 p3162 N84-30082
Practical aspects of tuning a ringed RFQ
[DE84-011366] 20 p3175 N84-30163
General-purpose RFQ design program
[DE84-011327] 20 p3175 N84-30165
Diagnostics of a high current capillary discharge
[DE84-011369] 20 p3179 N84-30194
Electronics Division research and development
[DE84-011024] 20 p3180 N84-30200
Some considerations on silicone oil in high-current and energy-deconnecting mechanisms
[DE84-011021] 20 p3180 N84-30203
Electron velocity distributions near collisionless shocks
[DE84-011352] 20 p3185 N84-30235
Dust particles in high speed flows: Calculations of small particle reentry hydrodynamics
[DE84-010998] 20 p3186 N84-30245
Heat pipe technology issues
[DE84-011384] 20 p3187 N84-30248
New experimental techniques with the split Hopkinson pressure bar
[DE84-003818] 20 p3190 N84-30268
Free electron lasers and related topics
[DE84-011332] 20 p3193 N84-30277
Electron beam diagnostic for the Los Alamos free electron laser oscillator experiment
[DE84-011348] 20 p3193 N84-30278
The XUV/VUV free-electron laser oscillator
[DE84-011347] 20 p3193 N84-30279
Exploration of phase stability in the surfatron accelerator
[DE84-011416] 20 p3193 N84-30280
Inductively stabilized excimer lasers
[DE84-011371] 20 p3194 N84-30284
Efficient forward conversion in a Raman generator
[DE84-007466] 20 p3194 N84-30285
A convective mechanism for inhibition of heat conduction in laser produced plasmas
[DE84-011336] 20 p3194 N84-30289
Criterion for quasibrittle crack growth
[DE84-010052] 20 p3203 N84-30349
Economics of a conceptual 75 MW hot dry rock geothermal electric power station
[DE83-015926] 20 p3236 N84-30539
Investigation of laminar shocks
[DE84-010074] 20 p3242 N84-30582
Evolution of structure in the PLACES barium clouds
[DE84-010996] 20 p3242 N84-30583
Some physical concepts in complex terrain meteorology derived from the Department of Energy's ASCOT program
[DE84-010059] 20 p3247 N84-30607
Interfacing CAMAC to a high-speed multiprocessor bit slice data-acquisition system
[DE84-009986] 20 p3273 N84-30780
Current research in parallel microprocessing systems at Los Alamos
[DE84-011342] 20 p3277 N84-30804
Intelligent optical design program
[DE84-010071] 20 p3279 N84-30813
Hamiltonian structure of field-line equations
[DE84-011019] 20 p3282 N84-30836
An improved accuracy general remapping algorithm
[DE84-004320] 20 p3282 N84-30837
MHD equilibrium and stability of rotating FRCs with excluded multipole fields
[DE84-007477] 20 p3284 N84-30853
Internal magnetic field measurements in a translating field-reversed configuration
[DE84-010054] 20 p3284 N84-30854
Institutional supporting research highlights in physics and mathematics, fiscal year 1983
[DE84-011025] 20 p3284 N84-30855
Commissioning tests of the Bonneville Power Administration 30 MJ superconducting magnetic energy storage unit
[DE84-006033] 20 p3285 N84-30860
Electron motion in solenoidal magnetic fields using a first order symplectric integration algorithm
[DE84-011341] 20 p3293 N84-30910
New directions in linear accelerators
[DE84-011412] 20 p3294 N84-30911
RFQ radial matching sections and fringe fields
[DE84-011408] 20 p3295 N84-30920
Pion elastic and inelastic scattering from (40) (42) (44) (48)Ca and (54)Fe
[DE84-009080] 20 p3296 N84-30927
Space nuclear safety program
[DE84-011015] 20 p3298 N84-30943
High energy nuclear structures
[DE84-010062] 20 p3299 N84-30947
Generalized Poisson brackets and nonlinear Liapunov stability: Application to reduced MHD
[DE84-009973] 20 p3302 N84-30972
Lyapunov stability conditions for a relativistic multifluid plasma
[DE84-010004] 20 p3303 N84-30973
Equilibrium and stability of the Los Alamos spheromak
[DE84-010064] 20 p3303 N84-30975
Ion reflection, gyration, and dissipation at supercritical shocks
[DE84-011353] 20 p3303 N84-30980
Space resolved absolutely calibrated VUV spectroscopic measurements on CTX
[DE84-007490] 20 p3304 N84-30984
Mixed mode operation in CTX
[DE84-007493] 20 p3304 N84-30985
Ohmic heating to 100-eV and helicity injection in CTX
[DE84-007494] 20 p3304 N84-30986
Confinement time and energy balance in the CTX spheromak
[DE84-007492] 20 p3304 N84-30987
Analysis of surface currents on the CTX mesh flux conserver
[DE84-007491] 20 p3305 N84-30989
Two novel plasma diagnostics
[DE84-009970] 20 p3305 N84-30990
Plasma simulation studies of electron acceleration for beat wave and single frequency-laser heating schemes
[DE84-009988] 20 p3305 N84-30992
The 19th Moriond meeting: Summary talk
[DE84-010053] 20 p3319 N84-31072
The galactic acceleration of ultrahigh energy cosmic rays
[DE84-012442] 20 p3320 N84-31080
Photon losses in cosmic ray acceleration in active galactic nuclei
[DE84-012583] 20 p3321 N84-31081
Hydrogen transport, mixing, and combustion studies
[DE84-012455] 21 p3360 N84-31317
Chemical kinetics in hydrogen-air flames
[DE84-011002] 21 p3361 N84-31323
Properties of polymers: Some uses in electronics, part I
[DE84-012863] 21 p3370 N84-31386
Properties of polymers: Some uses in electronics, part two
[DE84-012864] 21 p3371 N84-31387
Disappearance rates of C2(a 3 Pi u) and C2(X 1 Sigma g +) with O2 over the temperature range 298-1300 deg K
21 p3373 N84-31405
Lumped-circuit model of four vane RFQ resonator
[DE84-011343] 21 p3387 N84-31497
Operational parameters of a 2.0-MeV RFQ linac
[DE84-011368] 21 p3387 N84-31498
RFQ simulation code
[DE84-011385] 21 p3387 N84-31499
Development of thermionic integrated circuits for applications in hostile environments
[DE84-011374] 21 p3393 N84-31533
Energy storage capacitors. Lecture 4: Appendix
[DE84-010040] 21 p3395 N84-31546
Heat pipe technology development for high temperature space radiator applications
[DE84-012444] 21 p3402 N84-31581
Two-dimensional vapor flow analysis in heat pipes
[DE84-012581] 21 p3402 N84-31582
Heat pipe development status
[DE84-012580] 21 p3402 N84-31583
Operational performance of the Antares alignment system
[DE84-012659] 21 p3410 N84-31632
The effect of finite rotation on a problem in plastic deformation
[DE84-012627] 21 p3423 N84-31710
Slideline vertification for multilayer pressure vessel and piping analysis including tangential analysis
[DE84-004333] 21 p3423 N84-31711
Climatic change and streamflow in the southwest
[DE84-012658] 21 p3432 N84-31776
Suprathermal ions upstream of the Earth's bow shock
[DE84-012625] 21 p3444 N84-31855
Resonances in electron-molecule scattering and photoionization
[DE84-012660] 21 p3494 N84-32139
Metastable complexes of helium-hydrogen isotopes
[DE84-009995] 21 p3496 N84-32160
Space reactor fuels performance and development issues
[DE84-011414] 21 p3497 N84-32164
Reentry analysis
[DE84-012640] 21 p3498 N84-32167
Microstructural stability of copper electroplate
[DE84-010070] 21 p3498 N84-32174
High density Z pinch as a small low-energy fusion device
[DE84-009992] 21 p3502 N84-32198
Nonthermal effects on the diagnostics of a collapsing gas shell Z-pinch
[DE84-009996] 21 p3502 N84-32199
The selective epoxidation of ethylene catalyzed by silver: Mechanistic details revealed by single-crystal studies
[DE84-009987] 21 p3506 N84-32215
Theoretical study of cepheid light curves
[DE84-012453] 21 p3523 N84-32322
Pressure-dependent resistive behavior of YbBe13
[DE84-010068] 22 p3555 N84-32514
Thermomagnetic properties of GdPd
[DE84-009991] 22 p3556 N84-32515
Refueling considerations for liquid-hydrogen fueled vehicles
[DE84-012623] 22 p3562 N84-32557
Magnetic switches and circuits, revision 2
[DE84-014141] 22 p3588 N84-32725
High-efficiency particulate air filter behavior at high-speed flows
[DE84-014137] 22 p3595 N84-32769
Breakdown processes in large-area cold-cathode vacuum triodes
[DE84-014026] 22 p3602 N84-32817
Evaluation of bidirectionally conducting thyratrons for pulsed excimer lasers
[DE84-013890] 22 p3602 N84-32818
Rapid microbial identification by circular intensity differential scattering
[DE84-013894] 22 p3629 N84-32993
MECA: A supercomputer for Monte Carlo
[DE84-014129] 22 p3638 N84-33066
Prolonging the life of software
[DE84-001722] 22 p3641 N84-33088
High-order sparse factorization methods for elliptic boundary value problems
[DE84-012582] 22 p3646 N84-33122
Investigation of an empirical probability measure based test for multivariate normality
[DE84-012626] 22 p3649 N84-33135
Monte Carlo estimation under different distributions using the same simulation
[DE84-012438] 22 p3649 N84-33136
Thermal instabilities in the edge region of reversed-field pinches
[DE84-013861] 22 p3659 N84-33196
Anomalous surface impedance in reentrant ferromagnetic superconductors
[DE84-012634] 22 p3664 N84-33230
Dynamical scaling in 3He-4He liquid mixtures
[DE84-010072] 22 p3665 N84-33233
Period-doubling 2-torus state in a convecting He-3-superfluid He-4 solution
[DE84-009985] 22 p3666 N84-33243
Onset of oscillations in symmetric convective states in a superfluid He-3-He-4 mixture
[DE84-009984] 22 p3666 N84-33244
Dynamics of normal-zone propagation in Ta at small currents
[DE84-009990] 22 p3666 N84-33245
Some masses for population 1 and 2 cepheids
[DE84-014032] 22 p3677 N84-33311
Model for GCR-particle fluxes in stony meteorites and production rates of cosmogenic nuclides
[NASA-CR-173923] 22 p3679 N84-33321
Temperature and heat-flux distributions in a strip-heated composite slab
[DE84-006016] 23 p3712 N84-33529
Energetic particle sounding at the magnetopause and implications for magnetic reconnection
[NASA-CR-173963] 23 p3799 N84-34086
Supraconvergence and functions that sum to zero on cycles
[DE84-013889] 23 p3818 N84-34210
Solution of simultaneous polynomial equations by elimination in MACSYMA
[DE84-013891] 23 p3818 N84-34211
Compton scattering of photons from electrons in thermal (Maxwellian) motion: Electron heating
[DE84-013860] 23 p3823 N84-34241
Toroidal equilibrium in an iron-core reversed field pinch
[DE84-013858] 23 p3826 N84-34283
Observations of ramped current operation in ZT-40M
[DE84-015076] 23 p3829 N84-34286

Optical effects of the gravitationally induced concentration gradient in tricritical 3He-4He
[DE84-009972] 23 p3830 N84-34297
Cepheid evolution
[DE84-014027] 23 p3839 N84-34352
Secular stability of rotating stars
[DE84-014011] 23 p3839 N84-34353
A low Earth orbit molecular beam space simulation facility 24 p3863 N84-34483

LOUGHBOROUGH UNIV. OF TECHNOLOGY (ENGLAND).
A thin-walled beam finite element
[TT-8302] 03 p0425 N84-12779
Dissociation charts for use in spark ignition engine performance work (S.I. units)
[TT-8403] 18 p2850 N84-28095
The inclusion of flexible joints in the stiffness method
[TT-8401] 18 p2854 N84-28122
On the Bell-Szekeres solution for colliding electromagnetic waves
[MATHS-RES-176] 19 p3010 N84-29078
Algebraic and dynamic characterizations of poles and zeroes at infinity
[MATHS-RES-175] 19 p3091 N84-29626
Algebraically special, nonaligned nonnull Einstein-Maxwell fields
[MATHS-RES-178] 19 p3114 N84-29783
Inference based on ranks with multiple failure time or grouped survival data
[MATHS-RES-177] 20 p3200 N84-30324
Formulation of stiffness matrices for elastic buckling of thin-walled open section prismatic columns
[TT-8402] 20 p3204 N84-30353
On square-full integers in a short interval
[MATHS-RES-170] 23 p3818 N84-34212
Results of a questionnaire on the teaching of Computer-Aided Engineering (CAE) on undergraduate courses
[TT-8404] 24 p3937 N84-34919

LOUISIANA STATE UNIV., BATON ROUGE.
A study of texture analysis algorithms
[AD-A131498] 01 p0123 N84-10802
An alternative approach to quantum statistics
[AD-A131525] 01 p0137 N84-10899
Ecological models of the Mississippi Deltaic Plain Region: Data collection and presentation
[PB83-239012] 02 p0245 N84-11604
Soot formation from polycyclic aromatics
[DE83-009750] 03 p0349 N84-12271
Continuum mechanics approach to streamflow modeling
[PB83-265041] 05 p0698 N84-14581
Computer-Aided Structural Engineering (CASE) project. Reference manual: Computer graphics program for generation of engineering geometry (SKETCH)
[AD-A133493] 06 p0898 N84-15828
physico-chemical investigation of some areas of fundamental significance to biophysics
[DE83-017404] 07 p1043 N84-16761
Shock tube study of the fuel structure effects on the chemical kinetic mechanisms responsible for soot formation
[NASA-CR-174661] 12 p1790 N84-21677
Research in elementary particle physics
[DE84-006130] 12 p1903 N84-22392
Permafrost on Mars: distribution, formation, and geological role 13 p2085 N84-23506
Studies on sub-micron devices with emphasis on MOS systems
[DE84-010029] 15 p2415 N84-25499
The development of a geopressured energy management information and analysis system in support of research planning: Third year
[PB84-174481] 16 p2511 N84-26116
Geodetic graphs and convexity
21 p3425 N84-31729
Solar flares and magnetospheric particles: Investigations based upon the ONR-602 experiment
[AD-A143144] 21 p3526 N84-32336
Geomorphic approach to hydrograph synthesis, with potential for application to ungaged watersheds
[PB84-190115] 22 p3615 N84-32904

LOUISIANA STATE UNIV., NEW ORLEANS.
The effects of high frequency positive pressure ventilation on hypoxic pulmonary vasoconstriction
10 p1549 N84-20151

LOUISVILLE UNIV., KY.
Extensions of suspension systems to measure effects of hypokinesia/hypodynamia and antiorthostasis in rats
09 p1355 N84-18855
Effects of suspension on tissue levels of glucocorticoid receptors 09 p1360 N84-18884

LOWELL OBSERVATORY, FLAGSTAFF, ARIZ.
Post-mission Viking data anaysis
[NASA-CR-173451] 12 p1776 N84-21587
The occultation of AG+29 deg 398 by 98 Minerva
[NASA-CR-173827] 20 p3319 N84-31066

LOWELL UNIV., MASS.
Synthesis and characterization of some thermotropic nematic and cholesteric polymers
06 p0808 N84-15262
Automatic electron density profiles from digital ionograms 06 p0869 N84-15659
Automatic real time ionogram scaler with true height analysis - artist
[AD-A135174] 08 p1187 N84-17732
Reattachment of a three-dimensional, incompressible jet to an adjacent axisymmetric inclined surface
[AD-A136288] 09 p1314 N84-18584
Further development of a computer algorithm for the automatic determination of space vehicle potential in real time
[AD-A137041] 10 p1571 N84-20292
Ionospheric research using digital ionosondes
[AD-A140012] 15 p2368 N84-25210
A high frequency radio technique for measuring plasma drifts in the ionosphere
[AD-A140509] 16 p2526 N84-26219

LOYOLA UNIV., CHICAGO, ILL.
EPR spectra of rare earth s-state ions in glassy systems
[DE83-014686] 01 p0155 N84-11022
The role of gravity in leaf blade curvatures
09 p1357 N84-18865

LTV AEROSPACE CORP., DALLAS, TEX.
ICAM (Integrated Computer Aided Manufacturing) conceptual design for computer-integrated manufacturing. Volume 4, part 5, task D: Quality assurance/quality, control/technical requirement/tasks, quality assurance modeling and analysis, architecture for product assurance, (TTD)
[AD-A144691] 24 p3948 N84-34999

LUDWIG-MAXIMILIANS-UNIVERSITAET, MUNICH (WEST GERMANY).
Improvement of flat plate collectors for solar energy conversion
[BMFT-FB-T-84-042] 16 p2519 N84-26167

LUFTHANSA GERMAN AIRLINES, FRANKFURT (WEST GERMANY).
Lufthansa German Airlines experience with cabin and cockpit windows of Boeing 707, 727, 737, 747, Douglas DC10 and Airbus A300
[AD-P003226] 17 p2596 N84-26639

LUFTHANSA G.M.B.H., HAMBURG (WEST GERMANY).
Cost efficient on board power for airline operation
03 p0335 N84-12180

LULEA UNIV. (SWEDEN).
Lubricant rheology in concentrated contacts
15 p2341 N84-25050

LUMIN, INC., TUSCALOOSA, ALA.
Real time optical interferometric image addition and subtraction by wave polarization
[AD-A134125] 05 p0746 N84-14902

LUNAR AND PLANETARY INST., HOUSTON, TEX.
Workshop on Pristine Highlands Rocks and the early History of the Moon
[NASA-CR-174584] 03 p0465 N84-13059
Workshop on a Cross Section of Archean Crust
[NASA-CR-175451] 11 p1677 N84-20947
Thermal contraints on high-pressure granulite metamorphism of supracrustal rocks
11 p1678 N84-20948
Metamorphic fluids and uplift-erosion history of a portion of the Kapuskasing structural zone, Ontario, as deduced from fluid inclusions 11 p1680 N84-20962
Fifteenth Lunar and Planetary Science Conference. Press Abstracts
[NASA-CR-175409] 11 p1754 N84-21448
Cosmic ray exposure of SNC meteorites and constraints on their derivation from Mars 11 p1754 N84-21449
Impact basins and the volcanics of Mars
11 p1755 N84-21457
Activities at the Lunar and Planetary Institute
[NASA-CR-173528] 14 p2166 N84-23974
Geophysical investigations of a geothermal anomaly at Wadi Ghadir, eastern Egypt
[NASA-CR-173527] 14 p2175 N84-24030

LUND INST. OF TECH. (SWEDEN).
Modeling and simulation techniques
01 p0015 N84-10096
Practical aspects of digital implementation of control laws 01 p0016 N84-10101
On crack paths
[AD-P003110] 16 p2488 N84-25815

LUND UNIV. (SWEDEN).
New Fe 2 lines in IUE spectra of stars
24 p3977 N84-35187

LUTECH, INC., HAYWARD, CALIF.
Design of incident field B-dot sensor for the nose boom of NASA F-106B aircraft
[AD-A141765] 19 p2964 N84-28787
Alternative labelling schemes in electromagnetic topology
[AD-A144300] 24 p3954 N84-35037

LYON-1 UNIV. (FRANCE).
Some aspects in pattern recognition
09 p1412 N84-19238
Canonic measurements in the classic moment problem 22 p3635 N84-33041

M

M/A-COM GALLIUM ARSENIDE PRODUCTS, INC., BURLINGTON, MASS.
The technical, economic and institutional feasibility of customer premises Earth stations for INTELSAT service
[PB84-128404] 10 p1484 N84-19703

M/A-COM LASER DIODE, INC., NEW BRUNSWICK, N.J.
Hermetic single longitudinal mode CW lasers coupled to single mode optical fiber pigtails
[AD-A143628] 23 p3754 N84-33792

M/A-COM LINKABIT, INC., MCLEAN, VA.
M/A-COM linkabit eastern operations
[AD-A136463] 09 p1299 N84-18490
The DARPA Internet project: M/A-COM LINKABIT eastern operation
[AD-A137661] 11 p1711 N84-21155

M/A-COM LINKABIT, INC., SAN DIEGO, CALIF.
Trends in convolutional coding
13 p1976 N84-22830

MACAULAY-BROWN, INC., FAIRBORN, OHIO.
Human response to pyridostigmine bromide
[AD-A140960] 18 p2900 N84-28395

MACDONALD, DETTWILER AND ASSOCIATES LTD., RICHMOND (BRITISH COLUMBIA).
A fast, programmable hardware architecture for spaceborne SAR processing 07 p0989 N84-16409

MACKINNON CONSULTING SERVICES, HOUSTON, TEX.
AEM of extraterrestrial materials
[NASA-CR-167781] 17 p2777 N84-27630

MACQUARIE UNIV., NORTH RYDE (AUSTRALIA).
A comparative study of the fatty acid composition of prochloron lipids 10 p1544 N84-20115

MADISON MAGNETICS, INC., WIS.
Magnetic suspension and balance system study
[NASA-CR-3802] 20 p3132 N84-27688

MADRID UNIV. (SPAIN).
Study on optimal tracking strategy
[GMV-211/83] 08 p1113 N84-17243

MAGNAVOX GOVERNMENT AND INDUSTRIAL ELECTRONICS CO., MAHWAH, N. J.
Split-Stirling, linear-resonant, cryogenic refrigerators for detector cooling 06 p0819 N84-15342

MAGNETIC CORP. OF AMERICA, WALTHAM, MASS.
The insulation of copper wire by the electrostatic coating process
[AD-A137715] 11 p1648 N84-20785

MAGNETIC OBSERVATORY, HERMANUS (SOUTH AFRICA).
Geomagnetic and related geophysical phenomena
[CSIR-SR-MAG-3] 07 p1032 N84-16693
Papers presented at the Symposium on Upper Atmosphere Research in South Africa
[CSIR-S-325] 09 p1343 N84-18775
The present status of research at the Magnetic Observatory 09 p1343 N84-18777
Upper atmosphere research at Rhodes University since 1940: A review 09 p1344 N84-18779

MAINE UNIV., ORONO.
Computer simulation of phosphorus cycling in the sediment-water system of eutrophic lakes
[PB84-140573] 11 p1672 N84-20912
Approximations for elastic layers and a three-dimensional elasticity solution for a simply supported rectangular plate 15 p2314 N84-24884

MAINZ UNIV. (WEST GERMANY).
Remarks concerning the application of polynomial zeroing methods on the algebraic eigenvalue problem
16 p2541 N84-26309

MAN-TURBOMOTOREN G.M.B.H., MUNICH (WEST GERMANY).
Laser-plasma interaction and self organization phenomena in magnetoplasmas
10 p1584 N84-20382

MANAGEMENT AND TECHNICAL SERVICES CO., HOUSTON, TEX.
Energy balance and the composition of weight loss during prolonged space flight
[NASA-CR-171745] 08 p1199 N84-17820
Water immersion and its computer simulation as analogs of weightlessness
[NASA-CR-171746] 08 p1200 N84-17821

MANAGEMENT CONSULTING AND RESEARCH, INC., FALLS CHURCH, VA.
US military aircraft cost handbook
[AD-A136035] 09 p1249 N84-18158
The problem of cost growth
[AD-P002792] 13 p2057 N84-23339
Independent cost estimates: A case study joint vertical lift aircraft (JVX) program
[AD-P002797] 13 p2057 N84-23343
MANAGEMENT SCIENCE ASSOCIATES, LOS ALTOS, CALIF.
Evaluation of surface storage facilities for explosives, blasting agents and other explosive materials
[PB84-168392] 17 p2639 N84-26686
MANCHESTER COLL. OF SCIENCE AND TECHNOLOGY (ENGLAND).
Optical extinction theorem theory of optical multi-stability bifurcations and turbulence in the Fabry-Perot interferometer 14 p2239 N84-24442
Optical bistability from the Dicke model 14 p2239 N84-24443
MANCHESTER UNIV. (ENGLAND).
SISAL: Streams and Iteration in a Single-Assignment Language. Language reference manual, version 1.1
[DE83-016576] 04 p0582 N84-13843
A laboratory study of aircraft precipitation static charging
[AD-A142561] 21 p3443 N84-31848
Textile ballistic performance (data base)
[AD-A143249] 22 p3560 N84-32541
MANITOBA UNIV., WINNIPEG.
Static and dynamic behavior of mechanical components associated with electrical transmission lines 10 p1505 N84-19844
An experimental hybrid model for a bilinear hysteretic system 10 p1514 N84-19910
The Pikwitonei granulite domain: A lower crustal level along the Churchill-Superior boundary in central Manitoba 11 p1680 N84-20967
Phase error effects on the radiation patterns of space-fed planar phased arrays
[AD-P003505] 21 p3384 N84-31473
On the quasi-periodic microstrip snake antenna with metal trough backing
[AD-P003510] 21 p3384 N84-31478
On the hydrodynamic corrections of SEASAT-ALT data and geodynamic application 23 p3777 N84-33945
MANLABS, INC., CAMBRIDGE, MASS.
Computer-based methods for thermodynamic analysis of materials processing
[AD-A136085] 09 p1397 N84-19123
MANTECH INTERNATIONAL CORP., ALEXANDRIA, VA.
Army digital test requirements analytic report
[AD-A137394] 10 p1486 N84-19714
MANVILLE SERVICE CORP., DENVER, COLO.
Opacification of high temperature fibrous insulation
[NASA-CR-166578] 21 p3356 N84-31285
MARBURG UNIV. (WEST GERMANY).
Electronic properties of amorphous silicon (a-Si:H)
[BMFT-FB-T-83-154] 05 p0699 N84-14590
MARCONI AVIONICS LTD., BOREHAM WOOD (ENGLAND).
A code of practice to constrain Ada (Trademark)
[AD-P003559] 21 p3335 N84-31163
MARCONI AVIONICS LTD., ROCHESTER (ENGLAND).
Integration of fire control, navigation system and head up display 03 p0315 N84-12060
Certification experience of the Jaguar fly-by-wire demonstrator aircraft integrated flight control system 06 p0777 N84-15095
Third generation MIL-STD-1553B LSI chip set
[AD-P003542] 21 p3333 N84-31146
Options and opportunities for standards: A NATO/AGARD viewpoint
[AD-P003577] 21 p3338 N84-31182
MARCONI CO. LTD., CHELMSFORD (ENGLAND).
Ocean wave imaging by SAR 06 p0867 N84-15649
Simple MTI using synthetic aperture radar 23 p3765 N84-33868
Measurement of geometric distortion in airborne SAR images 23 p3778 N84-33951
Direct and inverse methods for ocean-wave imaging by SAR 23 p3783 N84-33995
MARCONI CO. LTD., GREAT BADDOW (ENGLAND).
A long range propagation experiment to investigate the incidence of anomalous propagation in the north Atlantic 06 p0871 N84-15669
A radio interference model for western Europe 15 p2325 N84-24963
MARCONI SPACE AND DEFENCE SYSTEMS LTD., PORTSMOUTH (ENGLAND).
Software configuration management 05 p0723 N84-14742
The TM/TC processor study report
[BL-5577] 23 p3700 N84-33449
ERS synthetic aperture radar design 23 p3783 N84-33989
The active microwave instrument for ERS-1 23 p3783 N84-33990
Verification techniques for satellite-borne synthetic aperture radars 23 p3783 N84-33992
The in-flight calibration of a satellite-borne wind scatterometer 23 p3783 N84-33993
MARINE BIOLOGICAL LAB., WOODS HOLE, MASS.
Deforestation measured by LANDSAT: Steps toward a method
[DE83-016645] 04 p0554 N84-13652
Test of the use of LANDSAT imagery to detect changes in the area of forest in the tropics
[DE84-004444] 08 p1179 N84-17680
MARINE RESEARCH INST., HELSINKI (FINLAND).
Investigation of ice dynamics in the marginal ice zone
[AD-A134599] 08 p1196 N84-17799
Investigation of ice dynamics in the marginal zone
[AD-A138558] 15 p2374 N84-25243
MARKO MATERIALS, INC., NORTH BILLERICA, MASS.
Advanced powder metallurgy aluminum alloys via rapid solidification technology
[NASA-CR-172343] 16 p2464 N84-25794
MARQUARDT CORP., VAN NUYS, CALIF.
Preliminary scramjet design for hypersonic airbreathing missile application
[NASA-CR-3742] 04 p0486 N84-13195
Low thrust bipropellant engine development 20 p3136 N84-29912
Firebolt derivative/ramjet engine feasibility investigation (core engine program): Program summary 20 p3144 N84-29962
MARQUETTE UNIV., MILWAUKEE, WIS.
Properties of mercury-cadmium-telluride solid solutions
[AD-A130224] 01 p0156 N84-11025
MARSHALL-MCSHANE, PRESCOTT, ARIZ.
G-38, 39 and 40: An artist's exploration of space 18 p2801 N84-27774
MARTIN ACOUSTICS SOFTWARE TECHNOLOGY, SAN DIEGO, CALIF.
Transmission lines with very lossy conductors and seawater return
[AD-A130739] 01 p0065 N84-10427
MARTIN LUTHER-UNIVERSITAET, HALLE-WITTENBERG (EAST GERMANY).
Quasicon formal extensions, Fredholm eigenvalues, and Grunsky coefficient conditions 04 p0577 N84-13804
MARTIN MARIETTA AEROSPACE, BETHESDA, MD.
Space station needs, attributes and architectural options study. Briefing material: Final review and executive summary
[NASA-CR-173321] 09 p1267 N84-18273
MARTIN MARIETTA AEROSPACE, DENVER, COLO.
Cell-substrate bonding system design and development
[DE84-000963] 04 p0558 N84-13678
Cryogenic Fluid Management Experiment (CFME) trunnion verification testing
[NASA-CR-168310] 07 p0985 N84-16381
Technology needs of advanced Earth observation spacecraft
[NASA-CR-3698] 08 p1114 N84-17248
Power subsystem automation study
[NASA-CR-170974] 08 p1180 N84-17686
Braking-turning-maneuvering stability of heavy transporters 10 p1512 N84-19897
A free-form modal survey suspension system for large test articles 10 p1513 N84-19907
RIM as the data base management system for a material properties data base 12 p1891 N84-22312
Space station needs, attributes and architectural options study. Briefing material, mid-term review
[NASA-CR-173536] 15 p2279 N84-24692
SREM (Software Requirements Engineering Methodology) evaluation, volume 1
[AD-A141631] 19 p3077 N84-29525
SREM (Software Requirements Engineering Methodology) evaluation. Volume 2: Specifications and technical data
[AD-A141632] 19 p3078 N84-29526
Hydrogen fluoride formation and metal corrosion in freon-contaminated propellants 20 p3137 N84-29921
MPD thruster comparisons with advanced chemical systems for auxiliary propulsion applications 20 p3139 N84-29928
Measurement amplifier
[NASA-CASE-MFS-25868-1] 22 p3581 N84-32680
In flight performance of a six ampere-hour nickel-cadmium battery in low Earth orbit 23 p3738 N84-33690
Development of a thermal environment simulator for large test articles in a vacuum 24 p3861 N84-34469
Standardization in software conversion of (ROM) estimating 24 p3862 N84-34475
Manned maneuvering unit simulations on the Space Operations Simulator 24 p3864 N84-34490
MARTIN MARIETTA AEROSPACE, ORLANDO, FLA.
E/O (Electro-Optical) augmentation environmental temperature test
[AD-A134296] 07 p1075 N84-16988
Pyrotechnic shock test and test simulation 10 p1508 N84-19873
Standards and integrated avionic digital system architecture
[AD-P003561] 21 p3336 N84-31166
MARTIN MARIETTA CORP., BALTIMORE, MD.
Environmental durability of aluminum adhesive joints protected with hydration inhibitors
[AD-A135304] 09 p1288 N84-18412
MARTIN MARIETTA CORP., DENVER, COLO.
Molecular contamination math model support
[NASA-CR-170899] 01 p0028 N84-10174
Evaluation and prediction of long-term environmental effects of nonmetallic materials, second phase
[NASA-CR-170915] 02 p0244 N84-11595
Development of an autonomous video rendezvous and docking system, phase 3
[NASA-CR-170969] 08 p1115 N84-17249
Fluid management 09 p1268 N84-18284
Effects of yttrium microalloying on the epitaxial grain growth in Ti-6Al-4V weld fusion zones
[AD-A137272] 10 p1459 N84-19526
Manufacturing cost analysis for photovoltaic concentrator tracking structures
[DE84-006318] 13 p2009 N84-23032
Passive Sun seeker/tracker and a thermally activated power module 15 p2348 N84-25089
Application of TOS/AMS to TDRS E and F
[NASA-CR-171124] 21 p3346 N84-31225
Spacecraft servicing demonstration plan
[NASA-CR-171132] 21 p3351 N84-31258
Teleoperator human factors study
[NASA-CR-171120] 21 p3460 N84-31944
Teleoperator human factors study
[NASA-CR-173890] 22 p3633 N84-33022
MARTIN MARIETTA CORP., NEW ORLEANS, LA.
Aeroelastic stability analysis of the light weight tank LH-2 cable tray
[LMSC/D059511] 05 p0692 N84-14543
MARTIN MARIETTA LABS., BALTIMORE, MD.
Study of factors determining the radiation sensitivity of quartz crystal oscillators (A0189) 15 p2279 N84-24686
MARTINI ENGINEERING, RICHLAND, WASH.
Revised isothermal analysis program for Stirling engines
[DE83-017276] 03 p0384 N84-12504
MARYLAND UNIV., BALTIMORE.
Fitting a multiple regression function
[AD-A133482] 06 p0905 N84-15874
MARYLAND UNIV., COLLEGE PARK.
Coherent scattering of light into high frequency radiowaves
[AD-A130691] 01 p0066 N84-10431
New method in elementary particle detection
[AD-A131238] 01 p0142 N84-10932
Microstructural origins of hot spots in RDX explosive and several reference inert materials
[AD-A132056] 03 p0357 N84-12325
Image matching using generalized Hough transforms 03 p0394 N84-12569
Pyramid methods in image analysis 03 p0426 N84-12796
Iron charge states observed in the solar wind 03 p0473 N84-13112
Human behavior 04 p0511 N84-13352
The MGM Grand Hotel fire: A case study of human reaction to fire 04 p0512 N84-13358
Project People 2: An extended interview study of behavior response patterns in health care facility fire incidents 04 p0512 N84-13359
The quantum hall effect 04 p0611 N84-14036
Combining testing with formal specifications: A case study
[AD-A134110] 05 p0726 N84-14764
Analysis of data flow for SIMD (Single Instruction Multiple Data) systems
[AD-A133248] 06 p0895 N84-15812
TOF for heavy stable particle identification 06 p0913 N84-15936
The effects of space charge on ionic mobility measurements in cylindrical geometries 06 p0922 N84-15993
Sea height information from complex SAR data
[NASA-CR-173199] 07 p1060 N84-16872
A novel algorithm for sea surface height estimation using complex SAR data 07 p1060 N84-16873
Optimal estimation with chaotic dynamics 07 p1060 N84-16874

Optimal inference with chaotic dynamics
07 p1060 N84-16875
Application of hierarchical data structures to geographical information systems
[AD-A134999] 08 p1177 N84-17670
Beam front accelerators
[DE84-003709] 08 p1229 N84-18032
Theory of image analysis and recognition
[AD-A135453] 08 p1240 N84-18106
Formation of dust lanes in spiral galaxies by radiation pressure 08 p1244 N84-18130
Investigation of cold cathode and RF excitation for long life CO2 waveguide lasers
[AD-A136088] 09 p1323 N84-18643
Research in programming languages and software engineering
[AD-A136037] 09 p1369 N84-18937
Development of realistic algorithms for matrix computations on parallel computers
[AD-A136570] 09 p1376 N84-18990
Feedback and adaptive finite element solution of one-dimensional boundary value problems
[AD-A136018] 09 p1378 N84-19000
Inspection errors in link sampling
[AD-A135636] 09 p1382 N84-19029
Parallel algorithms for image analysis, extended summary 09 p1402 N84-19161
Measurement of structural damping using the random decrement technique 10 p1514 N84-19915
Seasonal climate fluctuations as steady and periodic flow states of a barotropic model of planetary waves
10 p1542 N84-20108
Remote sensing training for Corps of Engineering personnel: The university training module concept
[NASA-CR-175204] 10 p1549 N84-20154
Parallel logic programming and ZMOB and parallel systems software and hardware
[AD-A137068] 10 p1564 N84-20246
Higher order crossings
[AD-A137086] 10 p1571 N84-20296
Norm estimates for a maximal right inverse of the divergence operator in spaces of piecewise polynomials
[AD-A136889] 10 p1573 N84-20309
Charge state resolved energy spectra of He, N, Ar, and Ne ions 10 p1582 N84-20366
Study of electron beam production by a plasma focus
10 p1582 N84-20367
A high resolution solar atlas for fluorescence calculations
[NASA-CR-173366] 10 p1597 N84-20465
Method for accessing distributed heterogeneous databases 11 p1749 N84-21412
Development of probabilistic rigid pavement design methodologies for military airfields
[AD-A138212] 12 p1804 N84-21760
Laboratory infrared studies relevant to Io: A satellite to the planet Jupiter
[NASA-CR-173378] 12 p1922 N84-22522
Asymptotic models for wave scattering from very rough surfaces 13 p1984 N84-22883
Incorporation of remotely sensed soil moisture data into a hydrologic runoff model 13 p2007 N84-23017
On the generation and use of quantitative criteria for assessing software maintenance quality
13 p2025 N84-23128
Current research in the Software Engineering Laboratory (SEL) 13 p2026 N84-23138
Monitoring software development through dynamic variables 13 p2027 N84-23139
Characteristics of a prototype experiment
13 p2027 N84-23140
Structural coverage of functional testing
13 p2027 N84-23141
Examining functional acceptance testing with structural coverage metrics 13 p2027 N84-23142
Evaluating multiple coordinated windows for programming workstations 13 p2027 N84-23146
Strategies and mechanisms for the diffusion of scientific and technical information: A comparative study
13 p2067 N84-23406
Some device count comparisons for reduced control stores using MOS (Metal-Oxide Semiconductor) circuits
[AD-P002361] 14 p2193 N84-24152
Formal specification and verification of distributed system
[AD-A139305] 14 p2203 N84-24220
On mapping cube graphs on VLSI array and tree architectures
[AD-A139306] 14 p2205 N84-24234
Neutral gas plasma interactions and critical ionization velocity phenomena
[AD-A139233] 14 p2228 N84-24360
On the plasma physics on the beam plasma discharge
[AD-A139265] 14 p2228 N84-24361
Scaling of the beam plasma discharge for low magnetic fields
[AD-A139415] 14 p2229 N84-24363
Thermal and nonthermal phenomena in solar flare loops at 20 cm wavelength and in X-rays
[NASA-CR-173429] 14 p2252 N84-24522
Evidence accumulation for spatial reasoning in aerial image understanding
[AD-A139874] 15 p2336 N84-25025
Embedding of networks of processors into hypercubes
[AD-A139847] 15 p2397 N84-25384
A parallel method for natural texture synthesis
[AD-A139869] 15 p2398 N84-25385
On mapping homogeneous graphs on a linear array-processor model
[AD-A139912] 15 p2398 N84-25386
Modular matrix multiplication on a linear array
[AD-A139852] 15 p2400 N84-25404
Synthesis of natural textures on 3-d surfaces
[AD-A139869] 15 p2407 N84-25452
Dynamic crack growth in polymers
[AD-P003106] 16 p2467 N84-25811
Land-surface influences on weather and climate
[NASA-CR-173595] 16 p2529 N84-26234
The influence of localized precipation-induced D-region ionization enhancements on subionospheric VLF progation 17 p2726 N84-27348
Applications of satellite observations to the radiation budget, fluxes and the general circulation
[PB83-256818] 17 p2735 N84-27383
Sex steroids do not affect muscle weight, oxidative metabolism or cytosolic androgen reception binding of functionally overloaded rat Plantaris muscles
[NASA-CR-173630] 17 p2739 N84-27394
Light scattering measurements of critical fluctuations in an optically thin binary liquid sample
17 p2765 N84-27559
Studies of some plasma instabilities in space physics
17 p2766 N84-27562
MHD stability of the spheromak
17 p2766 N84-27563
Spatial fluctuations in the diffuse cosmic X-ray background, volumes 1 and 2 17 p2775 N84-27621
An estimation problem in faulty inspection sampling, revised
[AD-A141247] 18 p2851 N84-28103
The approximation theory for the p-version of the finite element method, part 2
[AD-A140952] 18 p2925 N84-28550
The postprocessing technique in the finite element method the theory and experience
[AD-A140953] 18 p2925 N84-28551
Finite element methods for the solution of problems with rough input data
[AD-A140955] 18 p2925 N84-28552
Conforming finite element methods for incompressible and nearly incompressible continua
[AD-A141117] 19 p3023 N84-29171
Parallel image processing and image understanding
[AD-A142162] 19 p3042 N84-29300
Evidence accumulation for spatial reasoning
[AD-A142174] 19 p3042 N84-29302
The factorization method for two points boundary value problems for ODE's and its relation to the finite difference method
[AD-A141829] 19 p3088 N84-29604
An adaptive method of lines with error control for parabolic equations of the reaction-diffusion type
[AD-A142253] 19 p3090 N84-29616
Acceleration of ions and electrons by wave-particle interactions
[AD-A142341] 20 p3292 N84-30900
New approach to polarized proton scattering based on Dirac dynamics
[DE84-008018] 20 p3296 N84-30926
Fundamental research in applied mathematics
[AD-A143123] 21 p3474 N84-32016
A geographic information system for regional hydrologic modeling 22 p3613 N84-32891
Historical and projected shoreline changes: Ocean City and north Assateague Island, Maryland
[PB84-190206] 22 p3628 N84-32987
Dynamic programming and transitive closure on linear pipelines
[AD-A143527] 22 p3640 N84-33079
A theory of error-based testing
[AD-A143533] 22 p3640 N84-33081
Simulation of large networks of processors by smaller ones
[AD-A143529] 22 p3643 N84-33098
Frequency response design methods for large scale systems
[DE84-013111] 22 p3644 N84-33103
Degrees of adjacency or surroundedness
[AD-A143528] 22 p3646 N84-33118
Persistence of the Hopf bifurcation under singular perturbations
[DE84-013871] 22 p3646 N84-33120
A study of the temporal and spectral characteristics of gamma ray bursts 22 p3680 N84-33331
New method in elementary particle detection
[AD-A144057] 23 p3822 N84-34240
Solar Terrestrial Physics: Present and Future
[NASA-RP-1120] 23 p3836 N84-34332
Reconnection of magnetic fields
23 p3836 N84-34333
Particle acceleration 23 p3836 N84-34334
Evolution of solar magnetic flux
23 p3836 N84-34335
MHD waves and turbulence in the Sun and interplanetary medium 23 p3837 N84-34336
Coupling of the solar wind to the magnetosphere
23 p3837 N84-34337
Coronal transients and their interplanetary effects
23 p3837 N84-34338
Connection between the magnetosphere and ionosphere 23 p3837 N84-34339
Substorms in the magnetosphere
23 p3837 N84-34340
Impact of flares on the solar terrestrial environment
23 p3837 N84-34341
Collisionless shock waves in the solar terrestrial environment 23 p3837 N84-34342
Assesment of plasma transport and convection at high latitudes 23 p3837 N84-34343
High latitude ionospheric structure
23 p3837 N84-34344
Investigation of ion beam production and acceleration using linear electron beams and a pulse powered plasma focus
[AD-A144525] 24 p3962 N84-35088

MARYLAND UNIV., PRINCESS ANNE.

Use of microwaves to improve nutritional value of soybeans for future space inhabitants
[NASA-CR-175336] 07 p1051 N84-16805

MASCHINENFABRIK AUGSBURG-NUERNBERG A.G., MUNICH (WEST GERMANY).

Growian rotorblades: Production development, construction and test
[BMFT-FB-T-83-111] 02 p0233 N84-11526
Construction of two wind turbines AEROMAN 11/11 for Indonesia
[BMFT-FB-T-83-143] 03 p0384 N84-12505
Development of an ultrasonic testing procedure for electron beam welded parts for aerospace applications
[BMFT-FB-W-72-011] 03 p0386 N84-12515
Support development program for the qualification of solar farm collectors
[BMFT-FB-T-83-207] 08 p1181 N84-17896
Development of new absorber coatings for high temperature applications
[BMFT-FB-T-84-033] 16 p2471 N84-25837
Compressed air production with waste heat utilization in industry 23 p3727 N84-33619
M.A.N. heat pumps in industry and communities, and their efficiency 23 p3747 N84-33755
Enhanced efficiency of modern four-stroke Diesel engines in generator operation
23 p3757 N84-33817
Wind energy: Large windpower systems to produce electric energy 23 p3785 N84-34008
Solar energy. M.A.N. systems and their efficiency
23 p3791 N84-34045
Wind energy. M.A.N. systems and their efficiency
23 p3791 N84-34046
Increase of the electric power characteristic number in industrial power stations. Adaptation of Power-Heat Coupling (PHC) to a new consumption structure
23 p3791 N84-34047
Hourly values of electricity and heat consumption and electricity supply conditions. Fundamentals of Block Heating Power Station (BHPS) construction
23 p3792 N84-34048
Efficiency and operating experience of Block Heating Power Stations (BHPS) 23 p3792 N84-34049
Optimization of the thermodynamic cycles of a collective heating power station 23 p3832 N84-34305

MASSACHUSETTS COMPUTER ASSOCIATES, INC., WAKEFIELD.

NSW (National Software Works) executive enhancements II
[AD-A129022] 01 p0120 N84-10781

MASSACHUSETTS INST. OF TECH., BOSTON.

Adaptive control: Myths and realities
11 p1618 N84-20586

MASSACHUSETTS INST. OF TECH., CAMBRIDGE.

Eigenmode analysis of unsteady one-dimensional Euler equations
[NASA-CR-172217] 01 p0003 N84-10022

Simple structural unit model for core-dependent properties of symmetrical tilt boundaries
[DE83-012620] 01 p0044 N84-10284

Characterization of p-type CdTe electrodes in acetonitrile/electrolyte solutions. Nearly ideal behavior from reductive surface pretreatments
[AD-A130764] 01 p0071 N84-10466

Space applications of Automation, Robotics And Machine Intelligence Systems (ARAMIS). Volume 3, phase 2: Executive summary
[NASA-CR-3736] 01 p0089 N84-10582

Space Applications of Automation, Robotics and Machine Intelligence Systems (ARAMIS), phase 2. Volume 1: Telepresence technology base development
[NASA-CR-3734] 01 p0089 N84-10583

Space Applications of Automation, Robotics and Machine Intelligence Systems (ARAMIS), phase 2. Volume 2: Telepresence project applications
[NASA-CR-3735] 01 p0090 N84-10584

Improvement of reliability of welding by in-process sensing and control (development of smart welding machines for girth welding of pipes)
[DE83-017012] 01 p0091 N84-10595

A subdivision algorithm in configuration space for findpath with rotation
[AD-A130565] 01 p0130 N84-10850

Technical analyses and related planning assistance in supporting of DOE's superconducting magnetic energy storage program
[DE83-012005] 01 p0139 N84-10909

Finding edges and lines in images
[AD-A130824] 01 p0147 N84-10967

Ray-tracing analysis of electron-cyclotron-resonance heating in straight stellarators
[DE83-013854] 01 p0149 N84-10982

Chemically derivatized semiconductor photoelectrodes
[AD-A130716] 01 p0152 N84-11003

Safety and protection for large-scale superconducting magnets. A FY 1982 report
[DE83-012961] 01 p0154 N84-11013

Application of active and passive suspension techniques to improve high speed ground vehicle performance
[PB83-224576] 01 p0164 N84-11076

Investigation of air transportation technology at MIT
02 p0168 N84-11104

Lateral runway approach guidance using Loran-C
02 p0168 N84-11105

Development of real-time ATC simulation facility
02 p0168 N84-11106

Relative-datum Loran navigation
02 p0168 N84-11107

Determining attitude of object from needle map using extended Gaussian image
[AD-A131617] 02 p0240 N84-11571

Computational studies in the interpretation of structure and motion: Summary and extension
[AD-A131598] 02 p0265 N84-11746

An extremum principle for shape from contour
[AD-A131321] 02 p0272 N84-11780

Fault tolerant optimal control
[NASA-CR-174471] 02 p0278 N84-11822

Scaling theorems for zero-crossings
[AD-A131599] 02 p0281 N84-11839

High-field Tokamaks with DD-DT operation and tritium-breeding requirements
[DE83-013092] 02 p0296 N84-11939

Review of aircraft crash structural response research
[AD-A131696] 03 p0331 N84-12160

Design and operation of a light-scattering device for sizing and velocimetry of large droplets
[DE83-902641] 03 p0377 N84-12456

Using structural and functional information in diagnostic design
[AD-A131659] 03 p0423 N84-12769

Representations for reasoning about change
[AD-A131649] 03 p0424 N84-12772

The effects of small noise on implicitly defined non-linear dynamical systems
[AD-A131632] 03 p0428 N84-12808

The 12-T solenoid-design options for the MFTF-B upgrade
[DE83-016646] 03 p0430 N84-12817

Study of excited state energy transfer processes
[AD-A131777] 03 p0433 N84-12837

Beam plasma turbulence study
[AD-A131946] 03 p0444 N84-12917

A model for stresses in circular magnets for toroidal fusion devices
[DE83-016535] 03 p0447 N84-12937

Constraints on the scale of toroidal-fusion experiments with application to the design of a helical-axis stellarator
[DE83-016812] 03 p0449 N84-12950

Role of thermal conduction in the acceleration of the solar wind 03 p0467 N84-13079

The radial evolution of the solar wind, 1-10 AU
03 p0472 N84-13106

Structures and properties of rapidly solidified 9Cr-1Mo steel
[DE84-001276] 04 p0499 N84-13276

Irradiation response in titanium-modified austenitic stainless steels prepared by rapid-solidification processing. Part 3. A model for the effect of titanium addition
[DE84-001296] 04 p0500 N84-13281

Irradiation response in titanium-modified austenitic stainless steels prepared by rapid-solidification processing. Part 2. Dual-ion irradiations
[DE84-001297] 04 p0500 N84-13282

Irradiation response in titanium-modified austenitic stainless steels prepared by rapid-solidification processing. Part 1: Microstructural response to neutron irradiation
[DE84-001298] 04 p0501 N84-13283

Asymptotic optimality of shortest path routing
[AD-A132280] 04 p0521 N84-13423

Wafer-scale integration of systolic arrays
[AD-A132536] 04 p0525 N84-13450

Miniaturized disk bend tests of neutron-irradiated path A type alloys
[DE84-001277] 04 p0549 N84-13618

Planar embedding of planar graphs
[AD-A132538] 04 p0579 N84-13820

Impossibility of distributed consensus with one faulty process
[AD-A132503] 04 p0580 N84-13823

Issues in the design and implementation of Act2
[AD-A132326] 04 p0580 N84-13826

Adaptive spectral smoothing
[AD-A132574] 04 p0588 N84-13887

PLY: A system of plausibility inference with a probabilistic basis
[AD-A132537] 04 p0588 N84-13889

Concurrency control for resilient nested transactions
[AD-A132501] 04 p0589 N84-13891

On bisecting random graphs
[AD-A132500] 04 p0589 N84-13892

Hydrogen pellet injection into Alcator C
[DE83-016878] 04 p0609 N84-14018

Plasma/neutral gas transport in divertors and limiters
[DE84-001594] 04 p0611 N84-14034

Principles of superionic conduction
[DE84-001215] 04 p0613 N84-14044

Structure and phase transitions in bromine and potassium-mercury intercalated graphite
[AD-A133863] 05 p0645 N84-14244

Magnetic properties of CoCl2-Intercalated graphite
[AD-A133860] 05 p0648 N84-14260

A molecular orbital model of intergranular embrittlement
[AD-A133056] 05 p0655 N84-14307

Homogenizing properties of diblock polymers in blends of corresponding homopolymers
[AD-A132832] 05 p0659 N84-14334

Homopolymer-induced microphase separation of a homogeneous diblock copolymer
[AD-A133069] 05 p0660 N84-14337

Computational methods for complex flowfields
[AD-A133970] 05 p0680 N84-14467

The response of a laminar boundary layer to sound and wall vibration
[AD-A132843] 05 p0681 N84-14474

MIT miniaturized disk bend test
[DE84-001275] 05 p0694 N84-14554

Active and passive remote sensing of ice
[AD-A133672] 05 p0697 N84-14577

Development of analytical methodology for the measurement of chlorine and bromine in the stratosphere
[AD-A132640] 05 p0703 N84-14614

Picking up an object from a pile of objects
[AD-A133631] 05 p0716 N84-14691

An argument for soft layering of protocols
[AD-A133948] 05 p0718 N84-14708

A 2-tiered approach to specifying programs
[AD-A133949] 05 p0727 N84-14775

Efficient demand-driven evaluation (2)
[AD-A133879] 05 p0727 N84-14776

The smoothest velocity field and token matching schemes
[AD-A133633] 05 p0732 N84-14809

Hypothesizing channels through free-space in solving the findpath problem
[AD-A133632] 05 p0732 N84-14810

Symmetric set theory, a general theory of isomorphism, abstraction, and representation
[AD-A133630] 05 p0741 N84-14868

Switchable zero order diffraction gratings as light valves
[AD-A133010] 05 p0747 N84-14908

A model for superconductivity in graphite intercalation compounds
[AD-A133862] 05 p0753 N84-14937

The anomalous magnetoresistance of graphite at high magnetic fields
[AD-A133861] 05 p0753 N84-14938

Mission definition study for a VLBI station utilizing the Space Shuttle
[NASA-CR-175126] 06 p0794 N84-15173

Asymptotic analysis of numerical wave propagation in finite difference equations
[NASA-CR-175323] 06 p0822 N84-15360

Dynamic control of session input rates in communication networks
[AD-A133572] 06 p0825 N84-15379

Input-output characterization of an ultrasonic testing system by digital signal analysis
[NASA-CR-3756] 06 p0854 N84-15565

Plane strain fracture toughness of polyethylene pipe materials
[MIT-RR-R82-2] 06 p0857 N84-15586

Growth processes of snow
[AD-A133136] 06 p0866 N84-15639

Visual routines
[AD-A133634] 06 p0891 N84-15782

Efficient demand-driven evaluation
[AD-A133477] 06 p0898 N84-15827

Analyzing the roles of descriptions and actions in open systems
[AD-A133614] 06 p0905 N84-15878

The numerical synthesis and inversion of acoustic fields using the Hankel transform with application to the estimation of the plane wave reflection coefficient of the ocean bottom
[AD-A133156] 06 p0908 N84-15901

Project objectives and progress at the Research Laboratory of Electronics
[RLE-125] 06 p0926 N84-16016

A mercuric detector system for X-ray astronomy. 2. Results from flight tests of a balloon borne instrument
[NASA-CR-175329] 06 p0938 N84-16095

Development of a mercuric iodide solid state spectrometer for X-ray astronomy
[NASA-CR-175330] 06 p0938 N84-16096

Optimal mistuning for enhanced aeroelastic stability of transonic fans
[NASA-CR-173179] 07 p0953 N84-16180

Reliability issues in active control of large flexible space structures
[NASA-CR-175341] 07 p0964 N84-16248

Edge display spanning trees and recovery in data communication networks
[AD-A134378] 07 p0993 N84-16437

Extensions and applications of a second-order landsurface parameterization
[NASA-CR-175144] 07 p1023 N84-16636

Two fundamental issues in multiprocessing: The dataflow solution
[AD-A134239] 07 p1052 N84-16813

The dynamics of software development project management: An integrative systems dynamic perspective
[NASA-CR-175342] 07 p1054 N84-16824

Comments on bounded error adaptive control
[NASA-CR-173139] 07 p1057 N84-16848

Redundancy relations and robust failure detection
[NASA-CR-173252] 07 p1058 N84-16854

Study of parametric instabilities during the Alcator C lower hybrid wave heating experiments
[DE84-002809] 07 p1077 N84-17000

Crystal growth of device quality GaAs in space
[NASA-CR-173148] 07 p1079 N84-17013

Hierarchical database decomposition: A technique for database concurrency control
[AD-A134356] 07 p1084 N84-17052

Solving uninterpreted equations with context free expression grammars
[AD-A133613] 07 p1085 N84-17055

General requirements for Shuttle flight experiments
08 p1110 N84-17221

Charging effects observed on Voyager 1 near Jupiter
08 p1116 N84-17260

Nyquist frequency
[AD-A135023] 08 p1144 N84-17440

A catalogue of spreading modulation spectra
[AD-A134850] 08 p1145 N84-17454

Basic and applied research in the field of electronics and communications
[AD-A135283] 08 p1150 N84-17487

Research Laboratory of Electronics
[AD-A135319] 08 p1150 N84-17488

RLE (Research Laboratory of Electronics)
[AD-A134812] 08 p1151 N84-17495

Computation of potential flows with embedded vortex rings and applications to helicopter rotor wakes
[NASA-CR-166542] 08 p1156 N84-17526

Development of ultrasonic modeling techniques for the study of crustal inhomogeneities
[AD-A134501] 08 p1187 N84-17738

Acoustic data and uncertainty in geotechnical site characterization offshore
[PB84-100908] 08 p1196 N84-17801
Temporal aspects of eye movement when viewing multiple targets
[AD-A134853] 08 p1201 N84-17828
Automation, supervisory control and workload in flight management
[NASA-CR-166474] 08 p1202 N84-17838
Maximum likelihood reconstruction in emission tomography with time-of-flight information: A limited study
[AD-A135061] 08 p1217 N84-17944
An algebraic approach to analysis and control of time-scales
[AD-A135115] 08 p1218 N84-17949
Linear and nonlinear filtering and related inverse scattering problems
[AD-A135175] 08 p1219 N84-17954
Noise
[AD-A135066] 08 p1222 N84-17983
Detection of abrupt changes in dynamic systems
[NASA-CR-173217] 08 p1223 N84-17988
A cooperative program to stimulate student involvement through the MIT Undergraduate Research Opportunity Program
[NASA-CR-173300] 08 p1237 N84-18086
Hot wire in low Reynolds number flow
08 p1237 N84-18087
Flow behavior in the Wright Brothers Facility
[WBWT-TR-1187] 08 p1237 N84-18088
Adaptation of two-dimensional transonic analysis code, TSFOIL, for use in modeling adaptive wall test sections
08 p1238 N84-18089
Calculating C-grids with fine and embedded mesh regions
[CFDL-TR-83-7] 08 p1238 N84-18090
Development of a prototype experiment for treating CELSS and PCELSS wastes to produce nutrients for plant growth
[NASA-CR-173167] 09 p1277 N84-18341
Ignition and unsteady flame propagation in turbulent reactive flows
[AD-A136450] 09 p1279 N84-18349
Repetitively pulsed electric laser acoustic studies, volume 1
[AD-A136538] 09 p1322 N84-18636
Development and applications of the microchannel spatial light modulator
[AD-A136132] 09 p1323 N84-18645
Constructing a depth map from images
[AD-A135679] 09 p1337 N84-18731
A multiprocessor emulation facility
[AD-A136094] 09 p1365 N84-18915
Simulation tools for digital LSI (Large Scale Integration) design
[AD-A136116] 09 p1369 N84-18938
Preliminary report on the Larch shared language
[AD-A136117] 09 p1369 N84-18939
Optimally robust redundancy relations for failure detection in uncertain systems
[NASA-CR-173166] 09 p1377 N84-18997
A framework for solving VLSI (Very Large Scale Integration) graph layout problems
[AD-A136143] 09 p1378 N84-19003
Convergence theories of distributed iterative process: A survey
[AD-A135875] 09 p1382 N84-19027
Extended Gaussian images
[AD-A135747] 09 p1389 N84-19073
Self and cross tests of astronomical hypothesis and optimal cutoff bias-free nonparametric estimation
09 p1412 N84-19234
Some unsteady aerodynamic characteristics of separated and attached flow
[AD-A137070] 10 p1422 N84-19300
Fracture, longevity (fatigue), dynamics, and aeroelasticity of composite structures
[AD-A137047] 10 p1452 N84-19486
Photochemical conversion of H-2Os-3(CO)10(P-Donor) to H-2Oc-3(CO)9(P-Donor) in solution and on high surface area silica
[AD-A136991] 10 p1455 N84-19501
A dielectric study of the Time-Temperature-Transformation (TTT) diagram of DGEBA epoxy resins cured with DDS (Diaminodiphenylsulfone)
[AD-A137358] 10 p1466 N84-19573
Distributed optimization algorithms with communications
[AD-A137476] 10 p1480 N84-19672
Fundamental issues of multiple accessing
[AD-A136676] 10 p1481 N84-19675
Lubrication and support of a single piston ring
[DE84-004368] 10 p1502 N84-19818
Source signature recovery in reverberant structures
10 p1515 N84-19922
On the complexity of distributed decision problems
[AD-A137443] 10 p1570 N84-20283
Growth of cadmium telluride by pulling under liquid encapsulation
[AD-A136842] 10 p1589 N84-20412
Structural unit/grain boundary dislocation model for grain boundary structure
[DE84-003167] 10 p1589 N84-20416
Study of the structure of grain boundaries in metals
[DE84-005493] 11 p1635 N84-20689
Speech recognition: Acoustic phonetic and lexical knowledge representation
[AD-A137697] 11 p1643 N84-20742
Spectroscopic evaluation of Nd(3+):CAMGAR and H sub o(3+):YLF as 0.94 micrometer lasers
[AD-A137610] 11 p1662 N84-20845
Feasibility of remotely manipulated welding in space. A step in the development of novel joining technologies
[NASA-CR-175437] 11 p1664 N84-20857
Tectonic deformation of the Andes and the configuration of the subducted slab in central Peru: Results from a micro-seismic experiment
[NASA-CR-175445] 11 p1681 N84-20972
Recent work and thoughts on eddy-mean flow interaction
[AD-P002651] 11 p1689 N84-21016
The impact of Gulf Stream rings upon the Slope Water
[AD-P002662] 11 p1691 N84-21027
Application of marine acoustic systems
[PB84-141381] 11 p1692 N84-21037
Data flow computer architecture
[DE84-004198] 11 p1704 N84-21111
Implementation of MACLISP on a large address space computer
[DE84-005042] 11 p1710 N84-21145
Research in algebraic manipulation
[AD-A137742] 11 p1713 N84-21171
Research in algebraic manipulation
[AD-A137776] 11 p1714 N84-21174
Microwave emission from relativistic electron beams
[AD-A137752] 11 p1730 N84-21285
High resolution X-ray spectra of H- and He-like argon from the Alcator C Tokamak 11 p1735 N84-21321
Sloshing-ion equilibria in the TARA endplugs
[DE84-003360] 11 p1738 N84-21337
Relation between structure and conductivity in the nasicon solid solution system 11 p1743 N84-21374
On the stability of flight vehicles in the low Reynolds number non-linear regime
[AD-A138379] 12 p1773 N84-21559
Remote sensing of Earth terrain
12 p1831 N84-21938
Remote sensing of Earth terrain
12 p1834 N84-21951
Global energy and CO2-induced climate change
[PB84-145895] 12 p1862 N84-22131
Global energy futures and CO2-induced climate change, appendices
[PB84-145903] 12 p1862 N84-22132
Global energy future and CO2 induced climate change: Executive summary
[PB84-145911] 12 p1862 N84-22133
Stresses in a submarine topography under ocean waves
[DE84-005722] 12 p1863 N84-22139
Introduction to tandem mirror physics
[DE84-006644] 12 p1911 N84-22451
X-ray photoelectron and Auger electron spectroscopic study of the CdTe surface resulting from various surface pretreatments: Correlations of photoelectrochemical and capacitance-potential behavior with surface chemical composition
[AD-A138601] 13 p1956 N84-22714
Proceedings of the 6th MIT/ONR (Massachusetts Institute of Technology/Office of Naval Research) Workshop on C3 (Command, Control, and Communications) Systems
[AD-A138614] 13 p1977 N84-22835
Information processing and decisionmaking organizations: A mathematical description
[AD-P002878] 13 p1978 N84-22839
A model for asynchronous distributed computation
[AD-P002879] 13 p1978 N84-22840
Information theoretic models of memory in human decisionmaking models
[AD-P002883] 13 p1978 N84-22844
Optimal maneuver detection and estimation in multiobject tracking
[AD-P002899] 13 p1981 N84-22858
A framework for evaluation of surveillance algorithms
[AD-P002901] 13 p1981 N84-22859
The design of information structures: Basic allocation strategies for organizations
[AD-P002909] 13 p1981 N84-22861
Optimal file allocation problems for distributed data bases in unreliable computer networks, 2
[AD-P002913] 13 p1981 N84-22864
Linear dynamics of cables and chains
13 p2000 N84-22978
Human factors in space telepresence
[NASA-CR-173420] 13 p2023 N84-23119
Implementation of an optimal multicommodity network flow algorithm based on gradient projection and a path flow formulation
[AD-A138935] 13 p2029 N84-23154
Empirical analysis of a token ring network
[AD-A138905] 13 p2030 N84-23164
Precise measurement of refractive index and absorption coefficient of near millimeter wave and far infrared materials
[AD-A138656] 13 p2043 N84-23253
InP materials
[AD-A138992] 13 p2047 N84-23282
Differential degradation of Martian impact basins
13 p2078 N84-23468
Elysium Region, Mars: Characterization of tectonic features 13 p2089 N84-23534
Satellite orbit theory for a small computer
[AD-A139406] 14 p2112 N84-23660
Experimental study of the fluxes of reduced sulfur gasses from a salt water marsh
[PB84-159318] 14 p2181 N84-24064
Picking parts out of a bin
[AD-A139257] 14 p2187 N84-24106
Automatic synthesis of fine-motion strategies for robots
[AD-A139532] 14 p2188 N84-24107
Fingerprint theorems for zero-crossings
[AD-A139181] 14 p2212 N84-24280
On the stability of flight vehicles in the low Reynolds number non-linear regime
[AD-A140008] 15 p2258 N84-24561
Flutter and force response of mistuned rotors using standing wave analysis
[NASA-CR-173555] 15 p2262 N84-24586
Mechanisms of photochemical reactions of transition metal complexes: Excited state electron transfer and organometallic photochemistry
[AD-A140006] 15 p2287 N84-24722
Studies of metastable microcrystalline and glassy alloys
[AD-A139941] 15 p2297 N84-24787
Heat flow, fluid flow and solidification phenomena in weld pools 15 p2306 N84-24835
A microchemical derivation of the differential equations of interfacial statics. 3: Line tension
15 p2307 N84-24844
A designer's perception of computer-aided design
15 p2312 N84-24871
How to assemble tree machines
[AD-A139963] 15 p2330 N84-24988
Conical flows with leading edge vortices
15 p2333 N84-25013
Fundamental design problems of distributed systems for the hard real-time environment
[AD-A139996] 15 p2392 N84-25358
On the sequential nature of unification
[AD-A139939] 15 p2398 N84-25388
Comments on bounded error adaptive control
[NASA-CR-173542] 15 p2399 N84-25393
Detection of expansion at large angle grain boundaries using electron diffraction
[DE84-007889] 15 p2414 N84-25496
Introduction to unsteady flow in turbomachines
16 p2489 N84-25962
Stability of pumps and compressors
16 p2489 N84-25963
Numerical methods for Bayes sequential decision problems
[AD-A140418] 16 p2551 N84-26369
Multiple buoyancy driven flows in a vertical cylinder heated from below
[NASA-CR-173626] 17 p2666 N84-27001
Measurements of the low wavenumber wall pressure spectral density during transition on a flat plate
[AD-A140753] 17 p2668 N84-27013
Effects of lateral heterogeneities on the propagation, scattering, and attenuation of the seismic waves and the characterization of the seismic source
[AD-A140595] 17 p2727 N84-27359
Dynamic module replacement in a distributed programming system
[AD-A140619] 17 p2752 N84-27469
An application of number theory to the organization of raster-graphics memory
[AD-A140638] 17 p2758 N84-27508

On the representation of probability distributions as the convolution of symmetric and completely asymmetric parts
[AD-A140843] 17 p2760 N84-27528
Radial segregation induced by natural convection and melt/solid interface shape in vertical Bridgman growth
[NASA-CR-173627] 17 p2767 N84-27571
Development of FT-IR attenuated total internal reflection dichroism technique for structural characterization of polymer surfaces
[AD-A140805] 17 p2768 N84-27577
Spacescapes/payloads for the arts: Administrative and technical aspects of the New Wave Ruby Falls Get Away Special Project are reviewed in perspective
18 p2799 N84-27762
Experimental and theoretical studies of creep crack growth
[AD-A141193] 18 p2814 N84-27862
The Lincoln low-rate vocoder: A 1200/2400 bps LPC-10 voice terminal
[AD-A141291] 18 p2829 N84-27963
Status report on asymptotic methods for the analysis, estimation, and control of stochastic dynamic systems
[AD-A140931] 18 p2925 N84-28547
Passive and active circuits for vertical plasma stabilization
[DE84-006857] 18 p2933 N84-28599
Crystal growth of device quality GaAs in space
[NASA-CR-173749] 18 p2935 N84-28613
Mathematical modelling of high-speed ribbon systems: A case study of edge-defined film-fed growth
18 p2938 N84-28632
Maximization of growth rates during Czochralski pulling 18 p2940 N84-28646
Infrared nonlinear processes in semiconductors
[AD-A141032] 18 p2940 N84-28649
Transformation plasticity in high-strength materials
[DE84-006855] 19 p2966 N84-28922
Transport phenomena in improved electrochemical cell design for the production of magnesium
[DE84-006436] 19 p2995 N84-28978
Electrical monitoring of polymerization reactions with the charge-flow transistor
[AD-A142267] 19 p3000 N84-29010
The role of boundary layer capacitance at blocking electrodes in the interpretation of dielectric cure data in adhesives
[AD-A142188] 19 p3016 N84-29121
Active and passive remote sensing of ice
[AD-A141473] 19 p3041 N84-29293
Defect interactions in GaAs single crystals
19 p3046 N84-29323
Specification and implementation of atomic data types
[AD-A141823] 19 p3078 N84-29529
Application of asymptotic methods of theoretical computer science and combinatorics to problems in the design of VLSI circuits
[AD-A142262] 19 p3090 N84-29617
Linear and nonlinear filtering and stochastic control
[AD-A142229] 19 p3093 N84-29645
Iterative coupling of partitioned clusters in the scattered-wave molecular-orbital method
[AD-A141522] 19 p3101 N84-29697
Particle confinement during lower-hybrid current drive in the Versator 2 Tokamak
[DE84-006941] 19 p3106 N84-29737
Plasma studies on ion diodes
[AD-A142183] 19 p3107 N84-29743
Relativistic electromagnetic instabilities near electron cyclotron frequency and harmonics
[DE84-009672] 19 p3107 N84-29745
Decentralized estimation in communication networks with delay
[AD-A142376] 20 p3174 N84-30155
Parallelism in manipulator dynamics. Revision
[AD-A142515] 20 p3196 N84-30299
European views on controlling acid rain
[PB84-194208] 20 p3239 N84-30563
Using chemically reactive tracers to determine temperature characteristics of geothermal reservoirs
[DE84-011373] 20 p3242 N84-30580
Mechanisms of interannual ocean-atmosphere interactions
[NASA-CR-173834] 20 p3245 N84-30595
PRISM: A practical real-time imaging stereo matcher
[AD-A142532] 20 p3259 N84-30686
Computational experiments with a feature based stereo algorithm
[AD-A142549] 20 p3259 N84-30687
Interaction of human cognitive models and computer-based models in supervisory control
[AD-A142677] 20 p3265 N84-30717
An algorithm for parsing flow graphs
[AD-A142440] 20 p3273 N84-30773
Some design guidelines and discrete-time adaptive controllers
[NASA-CR-173800] 20 p3278 N84-30808
Design issues in parallel architectures for artificial intelligence
[AD-A142482] 20 p3278 N84-30809
Artificial intelligence and robotics
[AD-A142488] 20 p3278 N84-30810
Smoothed local symmetries and their implementation
[AD-A142489] 20 p3279 N84-30811
The curvature primal sketch
[AD-A142460] 20 p3281 N84-30827
Switchable zero order diffraction gratings as light valves
[AD-A142513] 20 p3300 N84-30953
Linear theory of lower hybrid heating
[DE84-010577] 20 p3303 N84-30979
Lower hybrid experiments at the 1 MW level on Alcator C: Heating and current drive
[DE84-010586] 20 p3304 N84-30981
Realistic modelling of lower hybrid current drive with multiple codes
[DE84-010576] 20 p3304 N84-30982
Plasma Fusion Center technical research programs
[DE84-007954] 20 p3304 N84-30983
Ion bombardment effects of the fatigue life of stainless steel under simulated fusion first wall conditions
[DE84-001300] 21 p3367 N84-31359
Flow in a tapered centrifuge
[DE84-012553] 21 p3401 N84-31573
New variational formulations of hybrid stress elements
21 p3420 N84-31690
A pioneer deep ocean mining venture
[PB84-199645] 21 p3433 N84-31780
The copycat project: An experiment in nondeterminism and creative analogies
[AD-A142744] 21 p3470 N84-31990
Atmospheric propagation effects on infrared radars
[AD-A143196] 22 p3576 N84-32651
Three-dimensional circuit layouts
[AD-A143430] 22 p3586 N84-32713
Summary of research performed at MIT Laboratory for Computer Science
[AD-A143459] 22 p3638 N84-33064
Extending binary Byzantine agreement to multivalued Byzantine agreement
[AD-A143424] 22 p3640 N84-33077
Low temperature epitaxial deposition of silicon by plasma enhanced CVD (Chemical Vapor Deposition)
[AD-A143208] 22 p3662 N84-33216
Impurity and defect characterization in epitaxial GaAs InP and the ternary and quaternary compound semiconductors
[AD-A143551] 22 p3664 N84-33225
Computer simulation of the heavy-duty turbo-compounded diesel cycle for studies of engine efficiency and performance
[NASA-CR-174755] 22 p3676 N84-33306
RLE Progress Report no. 126
[RLE-PR-126] 22 p3681 N84-33336
Molecule microscopy 22 p3681 N84-33337
Semiconductor surface studies
22 p3681 N84-33338
Atomic resonance and scattering
22 p3681 N84-33339
Chemical reaction dynamics at surfaces
22 p3681 N84-33340
X-ray diffuse scattering 22 p3682 N84-33341
Phase transitions in chemisorbed systems
22 p3682 N84-33342
Optics and quantum electronics
22 p3682 N84-33343
Quantum optics and photonics
22 p3682 N84-33344
Optical spectroscopy of disordered materials and X-ray scattering from surfaces 22 p3682 N84-33345
Infrared nonlinear optics 22 p3682 N84-33346
Quantum transport in low dimensional disordered systems 22 p3682 N84-33347
Microwave and quantum magnetics
22 p3683 N84-33348
Radio astronomy 22 p3683 N84-33349
Electromagnetic wave theory and remote sensing
22 p3683 N84-33350
Electronic properties of amorphous silicon dioxide
22 p3683 N84-33351
Photon correlation spectroscopy and applications
22 p3683 N84-33352
Submicron structures technology and research
22 p3683 N84-33353
Plasma dynamics 22 p3683 N84-33354
Optical propagation and communication
22 p3683 N84-33355
Communication networks 22 p3683 N84-33356
Digital signal processing 22 p3684 N84-33357
Speech communication 22 p3684 N84-33358
Linguistics 22 p3684 N84-33359
Cognitive information processing
22 p3684 N84-33360
Custom integrated circuits 22 p3684 N84-33361
Communications biophysics 22 p3684 N84-33362
Physiology 22 p3684 N84-33363
Electromagnetic launchers and guns, phase 1
[AD-A143778] 23 p3698 N84-33435
On the hierarchy of interfacial dislocation structure
[DE84-014160] 23 p3719 N84-33573
Compatibilizing effect of a diblock copolymer of isotactic polystyrene and isotactic polypropylene in blends of the corresponding homopolymers
[AD-A143959] 23 p3724 N84-33601
Passive microwave remote sensing of the atmosphere from satellites 23 p3774 N84-33923
Sinterable ceramic powders from laser heated gas phase reactions and rapidly solidified ceramic materials
[AD-A144439] 24 p3889 N84-34627
Throughput for packet radio networks with dynamic power levels
[AD-A144415] 24 p3895 N84-34664
Periodic control of the individual-blade-control helicopter rotor
[NASA-CR-166607] 24 p3911 N84-34771
Adaptive control with variable dead-zone nonlinearities
[NASA-CR-173980] 24 p3948 N84-35001
Synthesis and characterization of superconducting electronic materials
[AD-A144137] 24 p3966 N84-35116

MASSACHUSETTS UNIV., AMHERST.

Interurethane hydrogen bonding in thermoplastic polyurethane elastomers
[AD-A131368] 02 p0200 N84-11300
Calcium and mitosis 02 p0262 N84-11722
Decentralized control of scheduling in distributed processing systems
[AD-A131548] 02 p0301 N84-11976
Radiolysis of resist polymers. 1: Poly(methyl-alpha-haloacrylates) and copolymers with methylmethacrylate
[AD-A131864] 03 p0356 N84-12315
A search for radio pulsars in the Northern sky: Discovery of a pulsar in a unique binary system
03 p0462 N84-13040
The excitation of SiO in circumstellar envelopes
03 p0462 N84-13041
Radiolysis of resist polymers. 2: Poly(haloalkylmethacrylates) and copolymers with methylmethacrylate
[AD-A132095] 04 p0507 N84-13321
Bayes smoothing algorithms for segmentation of images modelled by Markov random fields
[AD-A133966] 05 p0734 N84-14817
Application of the Gibbs distribution to image segmentation
[AD-A133406] 06 p0901 N84-15850
A model for ordinal filtering of digital images
[AD-A134705] 08 p1232 N84-18052
Venus topography: Clue to hot-lithosphere tectonics?
11 p1679 N84-20958
Applications of functional analytic and Martingale methods to problems in queueing network theory
[AD-A137748] 11 p1718 N84-21208
Deformation studies of polymers by Fourier transform infrared spectroscopy 13 p1962 N84-22751
Method of initial functions for thick shells
13 p2003 N84-22996
Stratigraphic, geochemical, and petrologic studies of the Ammonoosuc volcanics, northcentral Massachusetts and southwestern New Hampshire 13 p2013 N84-23059
Model reference adaptive control systems: The hybrid approach 13 p2031 N84-23169
MM-wavelength measurements of CO in the atmosphere of Mars and SO2 in the atmosphere of Venus
13 p2072 N84-23429
Ice-covered volcanic water flows on Ganymede
13 p2073 N84-23432
New maps of Lakshmi Planum and eastern Aphrodite, Venus 13 p2077 N84-23457
A case for olivine on Mars 13 p2087 N84-23520
Interpretation of planetary stress systems: Determination of tectonic over-printing in Northwest Wyoming 13 p2090 N84-23540
A study of error detection and correction codes
[AD-A139398] 14 p2156 N84-23917
Metal-chelate polymers: Structural/property relationships as a function of the metal ion
[AD-A140205] 16 p2471 N84-25839
Cluster analysis package for image segmentation
[AD-P003117] 16 p2532 N84-26258
Simulation experiments with goal-seeking adaptive elements
[AD-A140295] 16 p2546 N84-26343

Research in adaptive control hybrid and constrained structure systems
[AD-A140496] 16 p2547 N84-26345
Microwave remote sensing of ocean surface wind speed and rain rates over tropical storms
17 p2716 N84-27288
Uniaxial draw of poly(ethylene oxide) by solid state extrusion
[AD-A141923] 20 p3161 N84-30074
Crystalline-state extrusion of low density polyethylenes
[AD-A142017] 20 p3161 N84-30075
A selection principle in Benard-type convection
[NASA-CR-173869] 21 p3398 N84-31559
Economic application of assembly robots: Elements of sensor applications to programmable feeders
[PB84-193200] 21 p3415 N84-31656
Linear polarization and total flux density of silicon monoxide masers and active extragalactic objects at millimeter wavelengths 21 p3522 N84-32314
The kinematics of the emission line gas in quasars and active galactic nuclei 21 p3524 N84-32326
Thermal degradation studies of segmented thermoplastic elastomers
[AD-A143954] 23 p3724 N84-33600
Dynamics of heat, mass and momentum transfer in an inductively coupled plasma
[DE84-014121] 23 p3828 N84-34282
On the semilattice of weak orders of a set
[AD-A144631] 24 p3952 N84-35023

MATERIALPRUEFUNGSANSTALT, STUTTGART (WEST GERMANY).

The influence of overheating on the development of structures, on ductility, and on corrosion resistance of the heat effect zones of stabilized austenitic nickel-chromium steels
[MPA-83-03] 18 p2815 N84-27872

MATERIALS QUALITY ASSURANCE DIRECTORATE, LONDON (ENGLAND).

Multi-detector gel permeation chromatography and its application to the analysis of industrial samples
[MQAD-R06] 03 p0351 N84-12283

MATERIALS RESEARCH LABS., ASCOT VALE (AUSTRALIA).

A torsion testing machine for measurement of shear strength of foam
[AD-A133027] 05 p0693 N84-14552
Permeability of flexible materials used in fuel storage tanks. Part 2: A method of measurement and preliminary results
[AD-A133451] 06 p0853 N84-15558
Bending of beams subjected to transverse impacts
[AD-A137840] 11 p1668 N84-20884
Development of an X-ray facility for radiation dosimetry studies
[MRL-R-910] 16 p2555 N84-26391
Deformation and fracture studies of polymers in the scanning electron microscope 17 p2626 N84-26802
Detonation parameters for Australian high-explosives composition
[AD-A143655] 23 p3726 N84-33609

MATERIALS RESEARCH LABS., MELBOURNE (AUSTRALIA).

X-ray fluorescence analysis for barium, zinc, calcium and phosphorus in oil additives
[MRL-TN-475] 05 p0646 N84-14249
X-ray fluorescence determination of sulphur in oils by a thin film method
[MRL-TN-474] 05 p0646 N84-14250
Mercuric 5-nitrotetrazole, a possible replacement for lead azide in Australian ordnance. Part 1: An assessment of preparation methods
[MRL-R-901] 05 p0661 N84-14344
Permeability of flexible materials used in fuel storage tanks. Part 1: General review
[MRL-TN-459] 05 p0662 N84-14353
Measurement of velocity and displacement of a transvarestraint testing machine
[MRL-TN-473] 05 p0683 N84-14493
Bending of beams subjected to transverse impacts
[MRL-R-886] 05 p0692 N84-14544
A preliminary assessment of observer expectations in target detection tasks
[MRL-R-893] 05 p0715 N84-14682
USERSIN: An interactive user-interface for FORTRAN SIN
[MRL-R-877] 05 p0721 N84-14728
Results from an experimental railgun system: ERGS-1A
[MRL-R-875] 05 p0743 N84-14879
Concentration of sulphuric acid: Premature failure of Bamag pots
[MRL-R-885] 08 p1123 N84-17301
Cyclic voltammetry of polysulfide (Thiokol) prepolymers and related compounds
[MRL-R-911] 08 p1136 N84-17387
The MRL small scale gap test for the assessment of shock sensitivity of high explosives
[MRL-R-896] 08 p1139 N84-17408
Experimental electromagnetic launchers at MRL
[MRL-R-894] 08 p1150 N84-17482
Large amplitude waves generated by an explosive mechanism
[MRL-R-905] 08 p1155 N84-17524
Improvements to high speed rotating prism cameras including on board timing and event pulse generators
[MRL-TN-476] 08 p1161 N84-17557
The response of rats to cutaneous dosing with trichothecene mycotoxins
[MRL-R-902] 08 p1197 N84-17803
Initial acceleration for electromagnetic launchers: A feasibility study on chemical propellants
[MRL-TN-478] 11 p1639 N84-20712
Marine fouling at HMAS Stirling, western Australia
[MRL-R-914] 11 p1692 N84-21038
Checklist and bibliography of benthic marine macroalgae recorded from northern Australia. 1: Rhodophyta
[MRL-R-912] 11 p1692 N84-21039
High-temperature oxidation of alpha nickel-silicon. 1: Reaction kinetics; thermogravimetry
[MRL-R-887] 12 p1796 N84-21717
ESR steel deoxidation and slag practice: Influence on inclusion morphology
[MRL-R-915] 12 p1796 N84-21718
Interactions between F-111 fuselage fuel tank sealants. Part 1: Characterisation of polyester sealants and their hydrolytic degradation products
[MRL-R-657-PT-1] 16 p2470 N84-25828
A thermal stability test for primary explosive stab sensitizers: Study of the thermal and hydrolytic stability of 1-picryl-5-nitrotetrazole
[MRL-R-918] 16 p2473 N84-25853
Performance results of a small-calibre electromagnetic launcher
[MRL-R-917] 16 p2483 N84-25924
Shock wave modelling and the HULL computer code formation of Mach stems
[MRL-R-907] 16 p2486 N84-25942
The nicrosil versus nisil type N thermocouple: A commercial reality
[MRL-R-903] 16 p2495 N84-26005
Characteristics of a plasma-injection-controlled discharge for CO2 mixing lasers
[MRL-R-922] 16 p2497 N84-26020
Speeding up the help hydrodynamic code
[MRL-R-925] 16 p2543 N84-26321
Service-life induced failure of bird impact resistant windshields
[AD-P003195] 17 p2591 N84-26608
Influence of container interactions on the vaporization thermodynamics of nickel
[MRL-R-884] 17 p2622 N84-26784
Detonation parameters for Australian high-explosives composition
[MRL-R-822] 17 p2628 N84-26812
The effect of injection molding processing parameters on the environmental stress cracking resistance of polycarbonate moldings
[MRL-R-924] 20 p3201 N84-30332
Pulsed hydrogen-fluoride laser
[MRL-R-831] 22 p3600 N84-32803
The effects of impurities and additives on the growth of polycrystalline TNT
[MRL-R-916] 24 p3890 N84-34629
Extracts from symposium: Countersurveillance 1983
[MRL-R-921] 24 p3914 N84-34779
Passive countersurveillance: An overview
24 p3914 N84-34781
Cognitive processes in target acquisition
24 p3914 N84-34783
Development of texture descriptions for images
24 p3914 N84-34785
The theory of Fourier descriptors and how they may be used to characterize shape 24 p3915 N84-34787
Two approaches to the instrumental estimation of detectability 24 p3915 N84-34789
Millimetre waves: A problem for the future
24 p3915 N84-34790
Railgun plasma armature characterisation experiments
[MRL-R-928] 24 p3965 N84-35104

MATERIALS SCIENCES CORP., SPRING HOUSE, PA.

Guidelines for composite materials research related to general aviation aircraft
[NASA-CR-3720] 02 p0187 N84-11218

MATHEMATICAL GEOSCIENCES, INC., LEXINGTON, MASS.

Geodetic use of GEOSAT-A
[AD-A137993] 13 p2011 N84-23048

MATHEMATICAL SCIENCES NORTHWEST, INC., BELLEVUE, WASH.

Radial plasma measurements and calculations in the center of a 3-meter laser-heated theta pinch
[DE83-015545] 01 p0150 N84-10989
Investigation of water rotor turbofans for Cruise Missile engines, volume 2
[AD-A131168] 02 p0180 N84-11173
Investigation of wave rotor turbofans for Cruise Missile engines, volume 1
[AD-A131167] 02 p0180 N84-11174
Advanced-laser development for isotope separation
[DE83-016151] 02 p0227 N84-11488
Long-life, high-current thyratrons for fast discharge lasers
[AD-A140817] 17 p2663 N84-26991
Tapered-wiggler free-electron laser oscillator program
[AD-A144053] 23 p3755 N84-33799

MATHEMATICAL SCIENCES NORTHWEST, INC., SAN MARCOS, CALIF.

Technology development for tapered-wiggler free-electron lasers
[AD-A142319] 19 p3029 N84-29213

MATHEMATISCH CENTRUM, AMSTERDAM (NETHERLANDS).

A proof rule for restoring logic circuits
[MC-IW-227/83] 07 p1000 N84-16484
On the simulation of many storage heads by a single one
[MC-IW-226/83] 07 p1053 N84-16818
On the simulation of many storage heads by one
[MC-IW-228/83] 07 p1053 N84-16819
Algebraic tools for system construction
[MC-IW-234/83] 07 p1053 N84-16820
Guidelines for the design of large modular scientific libraries in Ada
[MW-NN-31/83] 07 p1056 N84-16840
The axiomatic semantics of programs based on Hoare's logic
[MC-IW-236/83] 07 p1056 N84-16841
The infinite horizon optimal control problem on manifolds
[MC-BW-181/83] 07 p1058 N84-16851
Parallel algorithms in combinatorial optimization: An annotated bibliography
[MC-BW-189/93] 07 p1058 N84-16853
Random number generators for a pocket calculator
[MC-SW-93/83] 07 p1064 N84-16904
On iterative procedures of asymptotic inference
[MC-SW-94/83] 07 p1064 N84-16905
The dynamics of structured populations: Some examples
[MC-TW-241/83] 07 p1064 N84-16906
On the stability of the cell size distribution
[MC-TW-242/83] 07 p1065 N84-16907
Clines induced by a geographical barrier
[MC-TW-244/83] 07 p1065 N84-16908
Projective monads and extensions of functors
[MC-ZW-195/83] 07 p1065 N84-16909
Local recognition of Tits' geometries of classical type
[MC-ZW-197/83] 07 p1065 N84-16910
Computation of some parameters of Lie geometries
[MC-ZW-198/83] 07 p1065 N84-16911
Generalized functions as linear functionals on generalized functions
[MC-ZW-199/83] 07 p1065 N84-16912
Stability in linear multistep methods for pure delay equations
[MC-NW-152/83] 07 p1065 N84-16913
A portable vector-code for autonomous multigrid modules
[MC-NW-154/83] 07 p1065 N84-16914
A comparative survey of numerical methods for the linear generalized Abel integral equation
[MC-NW-155/83] 07 p1065 N84-16915
An abstraction mechanism for process algebra
[MC-IW-231/83] 07 p1066 N84-16916
An algebraic specification method for processes over a finite action set
[MC-IW-232/83] 07 p1066 N84-16917
The algebra of recursively defined processes and the algebra of regular processes
[MC-IW-235/83] 07 p1066 N84-16918
On specifying sets of integers
[MC-IW-237/83] 07 p1066 N84-16919
Multigrid methods for problems with a small parameter in the highest derivative
[MC-NW-158/83] 07 p1066 N84-16920
Termination strategies for Newton iteration in full multigrid methods
[MC-NW-159/83] 07 p1066 N84-16921
On M-functions and nonlinear relaxation methods
[MC-NW-160/83] 07 p1066 N84-16922
Current algebras and the identification problem
[MC-BW-187/83] 07 p1066 N84-16923

A Berry-Esseen bound for symmetric statistics
[MC-SW-95/83] 07 p1067 N84-16929
Chaos and order
[MC-TW-243/83] 07 p1067 N84-16930
Nonexistance of finite dimensional filters for conditional statistics of the cubic sensor problem
[MC-BW-176/83] 07 p1067 N84-16931
On the weak finite stochastic realization problem
[MC-BW-184/83] 07 p1067 N84-16932
Scheduling theory since 1981: An annotated bibliography
[MC-BW-188/83] 07 p1068 N84-16934
Foundations of computer science 4. Distributed systems. Part 1: Algorithms and complexity
[MATH-CENTRE-TRACTS-158-PT-1] 08 p1207 N84-17873
Foundations of computer science 4. Distributed systems. Part 2: Semantics and logic
[MATH-CENTRE-TRACTS-159-PT-2] 08 p1208 N84-17879
Processes and the denotational semantics of concurrency 08 p1208 N84-17881
Eisenstein series on the metaplectic group: An algebraic approach
[MATH-CENTRE-TRACTS-161] 08 p1217 N84-17937
Abstract automath
[MATH-CENTRE-TRACTS-160] 08 p1217 N84-17938
Tests for preference
[MATH-CENTRE-TRACTS-162] 08 p1217 N84-17939
Markov decision processes with continuous time parameter
[MATH-CENTRE-TRACTS-164] 08 p1217 N84-17940
The covariant classification of two-dimensional smooth commutative formal groups over an algebraically closed field of positive characteristic
[MATH-CENTRE-TRACTS-157] 08 p1223 N84-17989
Computational methods in number theory, part 1
[MATH-CENTRE-TRACTS-154-PT-1] 08 p1223 N84-17990
Perfect numbers and aliquot sequences 08 p1224 N84-17996
On a secure public-key cryptosystem 08 p1224 N84-17997
Factorization of polynomials 08 p1224 N84-17998
Computational methods in number theory, part 2
[MATH-CENTRE-TRACTS-155-PT-2] 08 p1225 N84-17999
Numerical computation of special zeros of partial sums of Riemann's zeta function 08 p1225 N84-18005
Query processing and data allocation in distributed database systems
[MATH-CENTRE-TRACTS-156] 08 p1239 N84-18101
A survey of three language-independent programming environments
[MC-IW-240/83] 13 p2029 N84-23160
An N to the 1.618th power lower bound on the time to simulate one queue or two pushdown stores by one tape
[MC-IW-245/83] 13 p2030 N84-23161
Factoring multivariate integral polynominals
[MC-IW-229/83] 13 p2034 N84-23190
Factoring multivariate integral polynomials, part 2
[MC-IW-230/83-PT-2] 13 p2034 N84-23191
On orthogonal polynomials on a half line and the associated kernel polynomials
[MC-BW-182/83] 13 p2034 N84-23192
Symmetric systems with semisimple structure algebra: The quaternionic case
[NASA-CR-173421] 13 p2034 N84-23193
The equicontinuous structure relation and extension of functions defined on G-spaces
[MC-ZW-192/83] 13 p2034 N84-23194
Linear multistep methods with minimized truncation error for periodic initial value problems
[MC-NW-157/83] 13 p2034 N84-23195
Compactness in semantics for merge and fair merge
[MC-IW-238/83] 13 p2035 N84-23199
Big omega versus the wild functions
[MC-IW-239/83] 13 p2035 N84-23200
Polynomial factorization by root approximation
[MC-IW-242/83] 13 p2035 N84-23201
Distributed elections in an Archimedean ring of processors (preliminary version)
[MC-IW-243/83] 13 p2035 N84-23202
The simple roots of real-time computation hierarchies (preliminary version)
[MC-IW-244/83] 13 p2035 N84-23203
Bifurcation of map resonance 1 : 4
[MC-TW-245/83] 13 p2035 N84-23204
Local bifurcation of a logistic delay map
[MC-TW-246/83] 13 p2035 N84-23205
A note on the overflow process from a finite Markovian queue
[MC-BW-179/83] 13 p2036 N84-23211
Stochastic dynamical systems with a cyclic structure
[MC-TW-247/83] 13 p2037 N84-23214
A framework for the probabilistic analysis of hierarchial planning systems
[MC-BW-180/83] 13 p2037 N84-23216
Some analytical aspects of the peakedness concept
[MC-BW-183/83] 13 p2037 N84-23217
Process algebra semantics for queues
[MC-IW-241/83] 13 p2037 N84-23219
Connectivity of circulant digraphs
[MC-BW-186/83] 13 p2038 N84-23220
Hereditary subdirect irreducibility in graphs
[MC-ZW-193/83] 13 p2038 N84-23221
Linear Volterra convolution equations: Semigroups small solutions and convergence of projection operators
[MC-TW-248/83] 13 p2038 N84-23223
Two infinite sequences of near polygons
[MC-ZW-194/83] 14 p2215 N84-24302
New very large amicable pairs
[MC-NW-153/83] 14 p2215 N84-24303
A comparitive study of ADI splitting methods for parabolic equations in two space dimensions
[MC-NW-156/83] 14 p2215 N84-24304
Factoring multivariate polynomials over algebraic number fields
[MC-IW-233/83] 14 p2215 N84-24305
On two-tape real time computation and queues
[MC-IW-246/83] 17 p2750 N84-27455
On the design of an editor for the B programming language
[MC-IW-248/83] 17 p2754 N84-27484
Algebra of communicating processes with abstraction
[CWI-CS-R8403] 17 p2754 N84-27485
Top-down design and the algebra of communicating processes
[CWI-CS-R8401] 17 p2756 N84-27495
The weak stochastic realization problem for discrete-time counting processes
[MC-BW-191/83] 17 p2761 N84-27532
Invariance properties of the conditional independence relation
[MC-BW-193/83] 17 p2761 N84-27533
Optimal control of partially observable stochastic systems with an exponential-of-integral performance index
[MC-BW-194/83] 17 p2761 N84-27534
A note on Delbrouck's approximate solution to the heterogeneous blocking problem
[MC-BW-190/83] 17 p2761 N84-27536
The relaxation time of two queueing systems in series
[MC-BW-192/83] 17 p2761 N84-27537
Typesetting and TROFF
[MC-IW-247/83] 17 p2772 N84-27601
Hopf bifurcation and symmetry: Traveling and standing waves on the circle
[MC-TW-249/83] 19 p3091 N84-29631
Uniqueness of Whittaker models for irreducible objects in Alg(Mp(k))
[MC-ZW-203/83] 19 p3092 N84-29639
Interval estimates for posterior probabilities in a multivariate normal classification model
[MC-SW-96/83] 19 p3094 N84-29650
Periodicity and absolute regularity
[MC-SW-97/83] 19 p3094 N84-29651
G-spaces: Compactifications and pseudocompactness
[MC-ZW-200/83] 19 p3095 N84-29658
Abstraction, specification and implementation techniques with an application to garbage collection
[MATH-CENTRE-TRACTS-166] 21 p3467 N84-31980
Multiple grid methods for equations of the second kind with applications in fluid mechanics
[MATH-CENTRE-TRACTS-163] 21 p3474 N84-32018
Upper bounds for the numbers of solutions of diophantine equations
[MATH-CENTRE-TRACTS-168] 21 p3474 N84-32019
On point processes
[MATH-CENTRE-TRACTS-165] 21 p3475 N84-32025
Nonnegative matrices in dynamic programming
[MATH-CENTRE-TRACTS-167] 21 p3475 N84-32028
On the uniqueness of a regular thin near octagon on 288 vertices (or the semibiplane belonging to the Mathieu group M12)
[MC-ZW-196/83] 21 p3476 N84-32029
Some observations concerning the zero-curves of the real and imaginary parts of Riemann's zeta function
[MC-ZW-201/83] 21 p3476 N84-32030
An infinite series of symmetric designs
[MC-ZW-202/83] 21 p3476 N84-32031

MATHETICS, INC., SAN DIEGO, CALIF.
Pilot behavior models for LSO (Landing Signal Officer) training systems
[AD-A135823] 10 p1552 N84-20169

MATRA ESPACE, PARIS-VELIZY (FRANCE).
Multifunction spacecraft attitude estimation and navigation system 15 p2267 N84-24611
Statistical methods of pattern recognition
[ISBN-2-7225-0694-7] 16 p2544 N84-26330
Assessment of data handling configuration for on-board operation system definition
[DM55/JPS/JP/321.82] 19 p2982 N84-28896
Detailed system studies on rendezvous and docking. Part 1: Executive summary
[ESA-CR(P)-1894-PT-1] 23 p3697 N84-33428
Telemetry/Telecommand (TM/TC) processor study
[MATRA-144-TM-TC-03-002] 23 p3699 N84-33448

MATRA SERVICE AERODYNAMIQUE, LE CHESNAY (FRANCE).
Effect of space exposure of some epoxy matrix composites on their thermal expansion and mechanical properties (A0138-8) 15 p2272 N84-24640

MATRA SERVICE AERODYNAMIQUE, RUEIL-MALMAISON (FRANCE).
Vacuum-deposited optical coatings experiment (A0138-4) 15 p2278 N84-24681

MATRA SERVICE AERODYNAMIQUE, TOULOUSE (FRANCE).
SPOT on-board software test and validation: Methodology and tools 05 p0724 N84-14755
Preparation of standard electrical testability provisions for space equipment. Volume 1: Executive summary
[DM.51/CV/JP/327.83-VOL-1] 08 p1153 N84-17507
Preparation of standard electrical provisions for space equipments
[DM.51/CV/JP/327.83-VOL-2] 08 p1153 N84-17508
Thermal control of Telecom 1 10 p1441 N84-19413
Active thermal control of the faint object camera 10 p1442 N84-19419
Study on the perturbation of lunar and planetary orbiters
[MATRA-CMT-RT005] 23 p3697 N84-33429
Statistical method for the calculation of the coverage of the celestial sphere including Sun, Moon and Earth constraints (analysis document)
[MATRA-CMT-RT101/016] 23 p3839 N84-34354

MATRA SERVICE AERODYNAMIQUE, VELIZY-VILLACOUBLAY (FRANCE).
Method for designing future weapons systems: Example of the very short distance ground-air systems 21 p3350 N84-31250

MATRECON, INC., OAKLAND, CALIF.
Permeability of polymetric membrane lining materials
[PB84-166859] 15 p2302 N84-24818

MAX-PLANCK-GESELLSCHAFT ZUER FOERDERUNG DER WISSENSCHAFT E.V., GARCHING (WEST GERMANY).
Portrait of the Max-Planck research organization and its institutes 03 p0458 N84-13015

MAX-PLANCK-INST. FUER AERONOMIE, KATLENBURG-LINDAU (WEST GERMANY).
Radial evolution of ion distribution functions 03 p0470 N84-13094
The average solar wind in the inner heliosphere: Structures and slow variations 03 p0472 N84-13105
Associations between coronal mass ejections and interplanetary shocks 03 p0474 N84-13121
On the field configuration in magnetic clouds 03 p0475 N84-13125
Summary of ionospheric heating experiments at Tromsoe (Norway) 05 p0635 N84-14178
The electron and ion spectra of radar returns from the critical height during ionospheric heating experiments 05 p0636 N84-14185
Fast magnetospheric echoes of energetic electron beams 05 p0636 N84-14187
Results of foil cloud experiments performed at Esrange (Kiruna, Sweden) and Andenes (Andoya, Norway) during the Energy Budget Campaign, November 1981
[BMFT-FB-W-83-012] 07 p1034 N84-16710
A dawn to dusk electric field in the Jovian magnetosphere
[NASA-CR-166463] 08 p1245 N84-18136
The ISPM energetic panel particle composition experiment 09 p1261 N84-18233
The ISPM interstellar neutral-gas experiments 09 p1261 N84-18234

The delta S (delta R)-2 question: The pulse-length dependence of signal power for Fresnel scatter
17 p2685 N84-27099

The spaced antenna drift method
17 p2687 N84-27107

The relationship between strength of turbulence and backscattering radar power at HF and VHF
17 p2689 N84-27125

On the extraction of atmospheric turbulence parameters from radar backscatter Doppler spectra. Part 1: Theory
17 p2689 N84-27127

Mesopheric turbulence intensities measured with a HF radar at 35 deg S. Part 2
17 p2689 N84-27128

Complementary code and digital filtering for detection of weak VHF radar signals from the mesoscale
17 p2690 N84-27134

VHF radar measurements during MAP/WINE
17 p2691 N84-27135

The mobile Sousy-Doppler radar: Technical design and first results
17 p2693 N84-27152

Observations of fast magnetospheric echoes of artificially injected electrons above an auroral arc
[BMFT-FB-W-84-014] 19 p3055 N84-29390

The Optical Coincidence Information Retrieval system (OCIR)
[MPAE-L-66-84-10] 20 p3316 N84-31059

MAX-PLANCK-INST. FUER CHEMIE, MAINZ (WEST GERMANY).

A multi-element study of ISUA iron-formation, W-Greenland
11 p1680 N84-20961

MAX-PLANCK-INST. FUER EISENFORSCHUNG, DUESSELDORF (WEST GERMANY).

An investigation into thermomechanical treatment by rolling of High Strength Low Alloy (HSLA) steels for improving their mechanical and technological properties
[BMFT-FB-T-83-083] 02 p0197 N84-11284

Influence of the tramp elements on the properties of steel, metallurgical processes for controlling the contents of tramp elements
[BMFT-FB-T-83-189] 07 p0977 N84-16331

Random fatigue of steels: Sequence effects during the crack initiation phase
[BMFT-FB-T-84-040] 16 p2466 N84-25804

MAX-PLANCK-INST. FUER EXTRATERRESTRISCHE PHYSIK, GARCHING (WEST GERMANY).

Critical velocity experiments in space
05 p0639 N84-14203

Influence of wake and photoemission on electric field measurements with a double probe on GEOS-2
08 p1116 N84-17261

ISEE observations of magnetopause reconnection: The energy balance
08 p1185 N84-17720

The ISPM dust experiment
09 p1262 N84-18239

MAX-PLANCK-INST. FUER FESTKOERPERFORSCHUNG, STUTTGART (WEST GERMANY).

Silicon liquid phase epitaxy with solution transport by centrifugal forces and investigation and characterization of silicon epitaxial layers by transmission electron microscopy
[BMFT-FB-T-83-097] 02 p0300 N84-11969

Research on diffusion and complex behavior of elements forming recombination centers in silicon by means of optical and electrical measurement techniques
[BMFT-FB-T-83-117] 02 p0300 N84-11971

Analysis of impurities forming recombination centers in silicon
[BMFT-FB-T-84-049] 19 p3113 N84-29779

MAX-PLANCK-INST. FUER KERNPHYSIK, HEIDELBERG (WEST GERMANY).

The phenomenology of deep-inelastic processes
[DE83-016622] 02 p0292 N84-11913

The ISPM dust experiment
09 p1262 N84-18239

Chemical and isotopic measurements of micrometeoroids by secondary ion mass spectrometry (A0187-2)
15 p2276 N84-24670

The Project STRAFAM: Test of a new parachute based instrument carrier for stratospheric research
[BMFT-FB-W-84-021] 21 p3445 N84-31859

MAX-PLANCK-INST. FUER METALLFORSCHUNG, STUTTGART (WEST GERMANY).

Optimization of SiC-based materials
[BMFT-FB-T-83-161] 05 p0661 N84-14343

Thermodynamics of the decomposition of liquid alloys
17 p2612 N84-26721

Ostwald ripening, interfacial energies and diffusion coefficients in monotectic systems
17 p2613 N84-26727

MAX-PLANCK-INST. FUER METEOROLOGIE, HAMBURG (WEST GERMANY).

On the detection of underwater bottom topography by imaging radars
17 p2718 N84-27301

MAX-PLANCK-INST. FUER PHYSIK UND ASTROPHYSIK, GARCHING (WEST GERMANY).

Information processing for the infrared balloon telescope Goldener Drache
[MPE-38] 03 p0461 N84-13035

Electrostatic waves and anomalous transport in the solar wind
03 p0470 N84-13095

Iron charge states observed in the solar wind
03 p0473 N84-13112

Survey of He(+)/He(2+) abundance ratios in energetic particle events
03 p0474 N84-13117

Dynamics of quasineutral beams
05 p0639 N84-14201

The role of momentum transfer to the ambient plasma in critical velocity experiments
05 p0639 N84-14205

Colored bubbles: An experiment for triggering equatorial spread F
05 p0640 N84-14212

Ion coupling to magnetosheath bulk motion
05 p0641 N84-14217

Plasma confinement and interaction experiments
05 p0641 N84-14218

ROSAT-FI design review
[MPE-39] 08 p1109 N84-17209

Precision measurements of line positions and profile at a wavelength of ten micrometers
[MPE-180] 10 p1579 N84-20346

Galactic gamma radiation and the interstellar medium
[MPE-179] 10 p1597 N84-20469

Physics and chemistry in the primitive solar nebula
[MPE-PREPRINT-21] 13 p2091 N84-23547

Activities report of the Institute of Extraterrestrial Physics
[MPE-181] 15 p2423 N84-25557

The characteristics of the cylindrical drift chambers of the detector CELLO: Investigation with muons from high altitude cosmic rays
[MPI-PAE/EXP.E1.125] 19 p3028 N84-29205

Activities report of the Werner-Heisenberg Institute of Physics
[ISSN-0173-6256] 19 p3103 N84-29714

MAX-PLANCK-INST. FUER PHYSIK UND ASTROPHYSIK, MUNICH (WEST GERMANY).

Activities report of the Institute for Extraterrestrial Physics
13 p2069 N84-23407

MAX-PLANCK-INST. FUER PLASMAPHYSIK, GARCHING (WEST GERMANY).

Energy conserving nonrelativistic guiding center mechanics and the Galilean principle of relativity
[IPP-6/219] 02 p0296 N84-11878

Crunk-Nicholson difference schemes for solving coupled systems of nonlinear diffusion equations
[IPP-6/223] 03 p0424 N84-12776

Axisymmetric MHD equilibria with flow
[IPP-6/230] 13 p2044 N84-23262

Ring-type support concept for twisted coils (finite element simulation)
[IPP-2/271] 20 p3200 N84-30327

Semi-implicit method for three-dimensional compressible MHD simulation
[IPP-6/234] 20 p3301 N84-30961

The use of isotopically-enriched carbon probes for erosion deposition measurements in the ASDEX divertor
[DE84-012329] 20 p3307 N84-31006

MAX-PLANCK-INST. FUER QUANTENOPTIK, GARCHING (WEST GERMANY).

Radiation pressure induced optical bistability
14 p2241 N84-24457

MAX-PLANCK-INST. FUER RADIOASTRONOMIE, BONN (WEST GERMANY).

The fluctuation spectrum of molecular clouds
09 p1408 N84-19201

MAX-PLANCK-INSTITUT FUER STROEMUNGSFORSCHUNG, GOETTINGEN (WEST GERMANY).

Influence of physical and air traffic conditions on aircraft noise emission to the ground
[MPIS-11/1982] 02 p0177 N84-11159

Elementary reactions of NH2 radicals in the gas, phase 3
[MPIS-2/1983] 05 p0652 N84-14285

Transonic noise generation by duct and profile flow
[AD-A129367] 06 p0908 N84-15899

Experimental investigation of the turbulent flow in smooth and longitudinal grooved tubes
[MPIS-3/1983] 07 p1004 N84-16510

Acoustic damping by microcondensate
07 p1070 N84-16952

Experimental investigation of channel meandering
[REPT-5/1983] 09 p1336 N84-18724

Detection methods for atoms and radicals in the gas phase
[MPIS-1/1983] 10 p1577 N84-20334

Initial experiments on profile vortex interaction
[MPIS-6/1983] 12 p1766 N84-21520

Investigations of radical-radical reactions using a far infrared Laser Magnetic Resonance (Fir-LMR) spectrometer
[MPIS-4/1983] 13 p1958 N84-22730

Mass spectroscopic investigations of the reactions of O2 (1 deltag) with furan, 2-methylfuran, and 2,5-dimethylfuran in the gas phase
[MPIS-7/1983] 13 p1958 N84-22731

Experimental investigations of rivulet meanders
[MPIS-5/1983] 13 p2006 N84-23015

Aerodynamic sound generation by turbulent boundary layer flow along solid and compliant walls
[MPIS-116/1983] 13 p2040 N84-23239

Electronically excited products in the reactions of O(3PJ) atoms with halogenated ethenes
[MPIS-8/1983] 13 p2041 N84-23244

Primary patterns of electronically excited molecules in the gas phase 2
[MPIS-9/1983] 13 p2041 N84-23245

Changes of phase and waves on depressurization of liquids with high specific heat
[MPIS-MITT-77] 15 p2332 N84-25003

Splitting of condensation shock waves in fluids of high specific heat
[MPIS-MITT-76] 16 p2487 N84-25949

Some theoretical results on Mach reflection of moderately strong shock waves
[MPIS-14/1983] 17 p2668 N84-27016

An investigation of the interaction of vortex rings and a laminar free jet flow
[MPIS-16/1983] 18 p2837 N84-28009

Primary processes of electronically excited molecules in vapor phase, part 3
[MPIS-12/1983] 18 p2930 N84-28582

Boundary layer solution for the Rayleigh-Benard convection problem
[MPIS-19/1983] 19 p3026 N84-29189

Investigation of laser induced radical reactions using time resolved infrared and coherent anti-Stokes Raman scattering (CARS) spectroscopy
[MPIS-17/1983] 20 p3151 N84-30008

Detection of NH-2O-radicals by far-infrared laser magnetic resonance spectroscopy
[MPIS-6/1984] 20 p3151 N84-30010

Measurements of integral state-specific cross sections of inelastic collisions between NO and noble gases
[MPIS-18/1983] 20 p3297 N84-30935

Scattering experiments on rotational excitation of methane in collision with noble gases
[MPIS-3/1984] 20 p3297 N84-30936

Photodissociation of H2O at 15 nm: State distribution and spatial orientation of the OH (x2pi) decay products
[MPIS-5/1984] 23 p3715 N84-33552

The effect of aircraft with noise certificates according to class ICAO Annex 16 on the determination of noise protection domains following the law on protection against aircraft noise
[MPIS-117/1983] 23 p3821 N84-34234

Study of the contributions of chemical and van der Waal forces to interaction between fluorine and Ar, Kr and Xe, using molecular beam scattering investigations of integral scattering cross sections
[MPIS-1/1984] 23 p3823 N84-34248

Energy transfer in atom-molecule collisions with suprathermal collision energy
[MPIS-2/1984] 23 p3824 N84-34249

Investigation of reactions of the methylene radical by means of a far infrared-laser magnetic resonance (FIR-LMR) spectrometer
[MPIS-4/1984] 24 p3881 N84-34588

MAXWELL LABS., INC., SAN DIEGO, CALIF.

Capacitor hardness demonstration program
[AD-A133045] 05 p0676 N84-14442

High-current betatron, phase 1
[AD-A143748] 23 p3824 N84-34252

MAYO FOUNDATION, ROCHESTER, MINN.

Signal processing in high data rate environments. Design tradeoffs in the exploitation of parallel architectures and fast system clock rates. An overview
09 p1401 N84-19151

MCBER AND CO., BOSTON, MASS.

Organizational structures, processes, and problems: A literature review and taxonomy
[AD-A140979] 18 p2943 N84-28665

MCC ASSOCIATES, INC., SILVER SPRING, MD.

Proceedings of the Passive and Hybrid Solar Energy Update
[CONF-830980] 16 p2513 N84-26125

MCDONNELL AIRCRAFT CO., ST. LOUIS, MO.

Effect of defects on aircraft composite structures
01 p0035 N84-10221

V/STOL (Vertical/Short Takeoff and Landing) low speed and transition equivalent systems analysis
[AD-A131955] 03 p0330 N84-12156

Processing science for AS/3501-6 carbon/epoxy composites
[AD-A132323] 04 p0506 N84-13316
Advanced F/A-18 avionics 06 p0770 N84-15048
Avionics fault tree analyzer 06 p0771 N84-15053
Measurement of hydrogen in high strength steels using the barnacle electrode
[AD-A139655] 15 p2297 N84-24784
Jet flowfields 16 p2437 N84-25631
Windshield weight reduction through the use of high strength glass and polyurethane interlayers
[AD-P003186] 17 p2590 N84-26599
Study of aerodynamic technology for single-cruise-engine V/STOL fighter/attack aircraft
[NASA-CR-166269] 19 p2961 N84-28767
Preparation and cleanliness verifications of a space simulation chamber for contamination sensitive test specimens 24 p3865 N84-34495

MCDONNELL CENTER FOR SPACE SCIENCES, ST. LOUIS, MO.
Chemical and isotopic measurements of micrometeoroids by secondary ion mass spectrometry (A0187-2) 15 p2276 N84-24670

MCDONNELL-DOUGLAS ASTRONAUTICS CO., HUNTINGTON BEACH, CALIF.
Development of a consensus standard for determining thermal performance of high-concentration-ratio solar collectors
[DE83-005129] 06 p0872 N84-15676
STEP flight experiments Large Deployable Reflector (LDR) telescope 06 p1112 N84-17231
Space Station needs, attributes and architectural options: Summary briefing
[NASA-CR-173326] 09 p1267 N84-18271
Data management 09 p1269 N84-18287
Target track and stabilization for manportable direct fire missiles
[AD-A136219] 09 p1271 N84-18306
Strain histories associated with stage separation systems using linear shaped charge 10 p1508 N84-19874
Conceptual design study. Science and Applications Space Platform (SASP). Final briefing
[NASA-CR-173520] 14 p2114 N84-23670
Second interim briefing (D3). Evolutionary Science and Applications Space Platform. Characterization of concepts, tasks A and B
[NASA-CR-173521] 14 p2115 N84-23671
Space station needs, attributes, and architectural options: Commercial opportunities in space
[NASA-CR-173698] 18 p2803 N84-27788
Space station needs, attributes, and architectural options: Technology development
[NASA-CR-173697] 18 p2803 N84-27789
Space station needs, attributes, and architectural options: Space station program cost analysis
[NASA-CR-173696] 18 p2803 N84-27790
Space station needs, attributes, and architectural options: Brief analysis
[NASA-CR-173695] 18 p2803 N84-27791
Space station needs, attributes and architectural options: Midterm main briefing
[NASA-CR-173687] 18 p2803 N84-27792
Space station needs, attributes and architectural options: Architectural options and selection
[NASA-CR-173694] 18 p2804 N84-27793
Space station needs, attributes, and architectural options: Mission requirements
[NASA-CR-173693] 18 p2804 N84-27794
Environmental degradation of solar optical materials, volume 2
[DE84-006505] 19 p3051 N84-29362
Fluidic thrust vector control thruster development 20 p3141 N84-29940
A high performance MIL-STD-1750A microprocessor
[AD-P003549] 21 p3334 N84-31153

MCDONNELL-DOUGLAS ASTRONAUTICS CO., ST. LOUIS, MO.
Models of maintenance resources interaction: Peacetime operations
[AD-A131379] 03 p0457 N84-13011
Cascade variable-conductance heat pipe (A0076) 15 p2274 N84-24651
Design and development of Shuttle Get-Away-Special experiment G-0074 18 p2800 N84-27770
A study of leeside flow field heat transfer on Shuttle Orbiter configuration
[NASA-CR-172362] 22 p3540 N84-32410
Failure analysis of nickel-hydrogen cell subjected to simulated low Earth orbit cycling 23 p3740 N84-33703

MCDONNELL-DOUGLAS AUTOMATION CO., ST. LOUIS, MO.
Translators between CADD and section 5 of the ANSI Y14.26M standard 12 p1871 N84-22192
Reflections on representing non-geometric data 12 p1874 N84-22216
Modeling concepts for communication of geometric shape data 12 p1875 N84-22217

MCDONNELL-DOUGLAS CORP., LONG BEACH, CALIF.
Unsteady boundary layers on thin bodies of revolution
[AD-A136257] 09 p1313 N84-18583
Optimized bolted joint
[NASA-CASE-LAR-13250-1] 11 p1664 N84-20859

MCDONNELL-DOUGLAS CORP., ST. LOUIS, MO.
NASA/MSFC NASTRAN auxiliary I/O routines 06 p0858 N84-15592
Testing for severe aerodynamically induced vibration environments 10 p1513 N84-19905
Product definition data interface 12 p1891 N84-22314
Space station needs, attributes and architectural options: Mission requirements
[NASA-CR-173691] 18 p2806 N84-27817

MCDONNELL-DOUGLAS ELECTRONICS CO., ST. CHARLES, MO.
New concepts in aircrew training using computer generated imagery: A study report
[AD-P003451] 21 p3509 N84-32228

MCDONNELL-DOUGLAS RESEARCH LABS., ST. LOUIS, MO.
Optimum microstructures for SPF (superplastic forming) using hydrovac
[AD-A130944] 01 p0044 N84-10280
Aging of polymeric materials
[AD-A132250] 04 p0506 N84-13318
Influence of rare-earth additions on properties of titanium alloys. Effects of yttrium and erbium additives on rapid solidification processing, superplastic forming, welding, and strengthening of titanium alloys
[AD-A133669] 05 p0654 N84-14299
Laser radar analyses
[AD-A133295] 06 p0850 N84-15540
Investigation of short-pulse electron-beam propagation
[AD-A140383] 16 p2556 N84-26396
Control of jet flowfield dynamics
[AD-A143631] 23 p3746 N84-33750

MCDONNELL-DOUGLAS TECHNICAL SERVICES CO., INC., HOUSTON, TEX.
Techniques for assessment of ascent aerodynamic characteristics of the space shuttle launch system 01 p0019 N84-10121

MCDONNELL-DOUGLAS TECHNICAL SERVICES CO., INC., HUNTSVILLE, ALA.
A definition of STS accommodations for attached payloads
[NASA-CR-172223] 01 p0018 N84-10114

MCELROY (RALPH) CO., AUSTIN, TEX.
Electroactive heterocyclic polymers
[DE83-013592] 02 p0200 N84-11305
Process for isotope separation
[DE84-001983] 06 p0844 N84-15507
Protective plasma envelope
[DE84-013316] 21 p3502 N84-32194
Probing a plasma with high-energy beams of atoms using threshold detectors
[DE84-013360] 21 p3502 N84-32195
Flute instability of plasma in a gas-dynamic trap
[DE84-013348] 23 p3828 N84-34284
Influence of plasma flow on flute instability
[DE84-013314] 23 p3829 N84-34285

MCGILL UNIV., MONTREAL (QUEBEC).
Hydrogen-air detonations
[DE83-009289] 03 p0350 N84-12278
High energy electromagnetic shower position measurement by a fine grained scintillation hodoscope 06 p0912 N84-15928
A measurement of the response of an SCG1-C scintillation glass shower detector to 2-17.5 GeV positrons 06 p0913 N84-15930
Physical properties and structure of ion-containing polymers
[AD-A139137] 14 p2129 N84-23766
Measurement of the energy resolution and related properties of an SCG1-C scintillation glass shower counter array for 1 to 25 GeV positrons
[DE84-007246] 14 p2148 N84-23871
Measurement of electromagnetic shower position and size with a saturated avalanche tube hodoscope and a fine grained scintillation hodoscope
[DE84-007247] 15 p2337 N84-25032
The vertical profile of reflectivity as an indicator of the active regions in PEP experiment 18 p2887 N84-28320

MCGRAW-EDISON CO., ST. LOUIS, MO.
Solid state power controller fuse development program
[AD-A142118] 19 p3016 N84-29118

MCMASTER UNIV., HAMILTON (ONTARIO).
On geometrical accuracy in precise metal forming 15 p2308 N84-24845

MCQUEST MARINE RESEARCH AND DEVELOPMENT CO. LTD., BURLINGTON (ONTARIO).
Application of computer image processing to underwater surveys
[AD-P003122] 16 p2533 N84-26283

MEASUREMENT CONCEPT CORP., ROME, N. Y.
I and W (Indications and Warning) data base management systems analysis
[AD-A139339] 14 p2247 N84-24497

MEASUREMENTS GROUP, INC., RALEIGH, N.C.
Measurement of residual strains and stresses in transparent materials
[AD-P003209] 17 p2593 N84-26622

MECHANICAL TECHNOLOGY, INC., ALBANY, N.Y.
Split-Stirling-cycle displacer linear-electric drive 06 p0820 N84-15343

MECHANICAL TECHNOLOGY, INC., LATHAM, N. Y.
Automatic combustor controller development and liquid-fuel combustor design program
[AD-A130368] 01 p0052 N84-10335
Stirling-engine heat-actuated heat pump
[DE83-017137] 04 p0537 N84-13529
Free-piston Stirling engine experimental program: Part 1. Baseline test summary
[DE84-003659] 07 p1012 N84-16567
Automotive Stirling engine development program
[NASA-CR-168205] 08 p1242 N84-18117
Free-piston Stirling engine experimental program: Part 2. An evaluation of loss mechanisms
[DE84-003658] 09 p1325 N84-18661
Research study of pressure instrumentation
[NASA-CR-171143] 21 p3405 N84-31599
Automotive Stirling engine development program
[NASA-CR-174622] 21 p3521 N84-32305
Automotive Stirling Engine Development Program. RESD summary report
[NASA-CR-174674] 22 p3677 N84-33307

MEDICAL BIOLOGICAL LAB. RVO-TNO, RIJSWIJK (NETHERLANDS).
Toxicology of tetrachloroethylene
[MBL-1983-3] 12 p1866 N84-22159
Toxicology of styrene
[MBL-1983-11] 12 p1866 N84-22160

MEGAPULSE, INC., BEDFORD, MASS.
An experimental investigation of the improvement in the reception of TM (Transverse Magnetic)-polarized LF (Low-Frequency) waves with a two-element spaced array
[AD-A142478] 20 p3175 N84-30159

MEIJI UNIV., KAWASAKI (JAPAN).
Synthesis of axion systems for the three-valued predicate logic by means of the special four-valued logic
[AD-P002358] 14 p2193 N84-24149
Regular ternary logic functions. Ternary logic functions suitable for treating ambiguity
[AD-P002366] 14 p2194 N84-24157

MELBOURNE UNIV., PARKVILLE (AUSTRALIA).
The time it takes to see 24 p3914 N84-34782

MERIDIAN CORP., FALLS CHURCH, VA.
Requirements analysis for forward funding tracking system, volume 1
[AD-A136840] 10 p1591 N84-20425
Requirements analysis for milestone tracking system, volume 2
[AD-A136841] 10 p1591 N84-20426
Synthesis of major economic studies of residential photovoltaics
[NASA-CR-173766] 19 p3049 N84-29349
Ocean Energy Technology Program
[DE84-012052] 20 p3236 N84-30542

MERLIN GERIN, GRENOBLE (FRANCE).
New techniques for medium voltage SF6 switches
[CAHIERS-TECHNIQUES-121] 10 p1488 N84-19726
Electromagnetic compatibility
[CAHIERS-TECHNIQUES-120] 15 p2322 N84-24942
Rotating arc cutoff with a Fluarc switch or a Rollarc contactor in SF6
[CAHIERS-TECHNIQUES-123] 15 p2330 N84-24993
Guide for designing industrial high tension networks
[CAHIERS-TECHNIQUES-124] 15 p2330 N84-24994
Control fo switching induced surges using SF6 devices
[CAHIERS-TECHNIQUES-125] 15 p2331 N84-24995
Selectivity of low tension circuit protection: The SELLIM system
[CAHIERS-TECHNIQUES-126] 15 p2331 N84-24996

MESSERSCHMITT-BOELKOW-BLOHM/ENTWICKLUNG SPRING NORD, BREMEN (WEST GERMANY).
Transonic configuration design 03 p0318 N84-12081

Engine/airframe interference
03 p0319 N84-12085

MESSERSCHMITT-BOELKOW-BLOHM G.M.B.H., BREMEN (WEST GERMANY).

Problems of system identification in flight vibration testing
[AGARD-R-720] 16 p2451 N84-25718

Successful utilization of economic, light aluminum-casted structures in airplane construction
[VFW-31/83-O] 16 p2562 N84-26439

Generation of marker lines by means of marker loads
17 p2680 N84-27074

Flexible manufacturing line for aircraft structures of sheet metal
[BMFT-FB-W-84-011] 19 p2955 N84-28731

Development of a 6-component balance for the cryogenic range
[BMFT-FB-W-84-022] 20 p3191 N84-30270

MESSERSCHMITT-BOELKOW-BLOHM G.M.B.H., HAMBURG (WEST GERMANY).

APU operational efficiency 03 p0335 N84-12181

Access to maintenance via Aircraft Integrated Data System (AIDS): Future aspects of the expanded AIDS
17 p2585 N84-26567

Feasibility study of a low cost Energy Performance Management System (EPMS)
[BMFT-FB-W-84-015] 21 p3328 N84-31116

Unsteady aerodynamics of fast moving control surfaces
[BMFT-FB-W-84-020] 21 p3328 N84-31117

MESSERSCHMITT-BOELKOW-BLOHM G.M.B.H., LAMPOLDSHAUSEN (WEST GERMANY).

Exploratory testing of the MBB 10 N bipropellant engine. Volume 2: Preliminary exhaust plume investigations
[MBB-UR-561-82-VOL-2] 23 p3702 N84-33464

Exploratory testing of the MBB 10 N Bipropellant engine. Volume 1: Characterization tests
[MBB-UR-572/82-VOL-1] 24 p3867 N84-34505

MESSERSCHMITT-BOELKOW-BLOHM G.M.B.H., MUNICH (WEST GERMANY).

Experimental investigation of delaminations in carbon fibre composite 01 p0033 N84-10209

Aeroelastic design considerations in the development of helicopters 02 p0171 N84-11126

Preliminary design of aircraft using structural optimization methods 02 p0172 N84-11133

Increasing significance of electromagnetic effects in modern aircraft development 06 p0769 N84-15041

Concept of a fighter aircraft weapon delivery system
06 p0773 N84-15064

Concepts for avionic and weapon integration facilities
06 p0774 N84-15070

Software testing of safety critical systems
06 p0774 N84-15073

Tornado autopilot measures to ensure survivability after failures 06 p0777 N84-15094

New flight deck design in the light of the operational capabilities 06 p0778 N84-15097

Status report of the programs
14 p2105 N84-23626

The MBB business activities' report
14 p2247 N84-24494

Investigation of critical surface degradation effects on coatings and solar cells developed in Germany (S1002)
15 p2275 N84-24658

Experimental investigation of delaminations in carbon fiber composite
[MBB-FE-214/S/PUB/107] 16 p2562 N84-26434

CSTS: The software test system for the TORNADO auto pilot
[MBB-FE-325/S/PUB/118] 16 p2562 N84-26436

A principal rotor without joints and pillows, made of fiber materials, for dynamic systems of future helicopters
[MBB-UD-384-83-O] 16 p2562 N84-26440

A rear engine without joints and pillows
[MBB-UD-383-83-O] 16 p2563 N84-26441

On validation of mission software by closed-loop testing in realtime
[MBB-UA-770-83-O] 16 p2563 N84-26446

Energy source today and tomorrow
[MBB-UR-602-82-O] 16 p2564 N84-26452

Fabrication of pressure vessels from fiber reinforced aluminum by electroforming for space application
[BMFT-FB-W-84-009] 19 p3032 N84-29235

Testing of coatings in space, Long Duration Exposure Facility (LDEF)
[BMFT-FB-W-84-017] 21 p3353 N84-31269

A technique to determine lift and drag polars in flight
24 p3848 N84-34402

Aircraft tests in the clearance program for the use of a combat aircraft from a runway after damage repair
24 p3848 N84-34404

Flight test techniques used for proof of structural integrity of Tornado when carrying external stores
24 p3849 N84-34413

MESSERSCHMITT-BOELKOW-BLOHM G.M.B.H., OTTOBRUNN (WEST GERMANY).

Spacecraft thermal control selection for seven years of lifetime in synchronous orbit
[MBB-UR-584-82-OE] 02 p0185 N84-11200

Investigation on the oxide layer of aluminium with respect to adhesive bonding
[MBB-BB-530-82-OE] 02 p0202 N84-11315

Electroforming of complicated structures for the nuclear and aerospace industry
[MBB-BB-536-82-OE] 02 p0207 N84-11350

Fast Multi Purpose Combat Craft Concept (FMPCC) for a high speed naval craft
[MBB-UT-18-82-OE] 02 p0207 N84-11351

Solar high and low temperature application for arid countries
[MBB-UR-583-82-OE] 02 p0251 N84-11640

System for computer generated images and digital radar landmass simulation systems
[MBB-UA-686-82-OE] 02 p0275 N84-11797

Vortex flow simulations past wings using the Euler-equations 03 p0324 N84-12118

Development and flight test of an active flutter suppression system for the F-4F with stores. Part 3. Flight demonstration of the active flutter suppression system
[AD-A131972] 03 p0337 N84-12191

Quality control and sample comparison by differential modal analysis
[MBB-BB-543-83-OE] 03 p0386 N84-12514

Economic production of aircraft structures made of fiber reinforced materials
[MBB-UT-23-82-OE] 05 p0625 N84-14109

Connection of large Airbus components taking example of control surfaces junctions
[MBB-UT-07-82-OE] 05 p0629 N84-14134

Reduced stability in a modern commercial aircraft and center of gravity control
[MBB-UT-22-82-OE] 05 p0632 N84-14156

Development, production and testing of the primary structure for the Shuttle Pallet Satellite (SPAS-01)
[MBB-UR-580-82-OE] 05 p0642 N84-14227

Torsional vibration measurements on fiber reinforced composites
[MBB-BB-524-82-OE] 05 p0645 N84-14240

The effect of humidity on the thermomechanical behavior of carbon fiber reinforced epoxy resins
[MBB-BB-526-82-OE] 05 p0645 N84-14241

Noise reduction of automobile tires
[MBB-BB-539-83-OE] 05 p0687 N84-14517

High power bogie for 350 km/h. Design and definition
[MBB-UD-376-OE] 05 p0687 N84-14518

Thin-layer solar cells made of amorphous silicon
[MBB-UA-664-82-OE] 05 p0698 N84-14584

Modular Optoelectronic Multispectral Scanner (MOMS). Digital image storage
[MBB-UA-686-82-OE] 05 p0746 N84-14901

Cost problems in international collaboration
[MBB-UA-671-82-OE] 05 p0760 N84-14988

Development, design and testing of the engineering model of the electric propulsion system Radiofrequency Ion Thrust Assembly (RITA)
[BMFT-FB-W-83-017] 07 p0965 N84-16254

Characterization of aluminum oxide layers (pretreatment of plated aluminum sheet metal for adhesive bonding)
[MBB-BB-549/83-O] 07 p0977 N84-16330

Study of Attitude Control and Guidance System (ACGS) for orbit change stage
[ESA-CR(P)-1797] 08 p1120 N84-17285

Feasibility study of an automatic protein growth facility using the retrievable carrier
[MBB-URV-131(82)] 09 p1263 N84-18246

Laser range finding technology for space to space applications. Volume 1: Laser diode range finder functional model
[MBB-UR-608-83-O-VOL-1] 09 p1324 N84-18648

Design and test of a cryogenic phase separator for zero-g environment 10 p1442 N84-19418

Exact solution for emission from surface elements of a planet 10 p1447 N84-19453

Feasibility study of advanced optical techniques for ocean color measurement
[MBB-R3700/292] 12 p1837 N84-21974

Development and demonstration of economic production systems in airframe construction. Part 2: Technological phase. Part 6: Review
14 p2093 N84-23555

Alpha jet pylon 14 p2093 N84-23556

MRCA run-in floors 14 p2093 N84-23557

Statistical and vibratory fatigue limit characteristics of aluminum cast alloys 14 p2093 N84-23558

Additionally compressed titanium fine cast components 14 p2094 N84-23559

Economic riveting: Different bore qualities, fittings, connection elements 14 p2094 N84-23560

Welding of components made of the aluminum cast alloy A357 14 p2094 N84-23561

Superplastic transformation and diffusion welding of titanium alloys 14 p2094 N84-23562

Aluminum precision forging components
14 p2094 N84-23563

Modern helicopter development in Germany
[MBB-UD-395-83-O] 14 p2105 N84-23627

Planning and implementation of automated cutting in the precision engineering industry
[MBB-UA-772-83-O] 14 p2135 N84-23794

Electronics in weapon systems
[MBB-UA-768-83-O] 14 p2143 N84-23850

Miniaturized Measurement and Testing (MMT) system
[MBB-UA-767-83-O] 14 p2203 N84-24226

Profitability improvement of projects by early consideration of life cycle cost reduction
[MBB-UR-620-83-O] 14 p2247 N84-24495

Operational demonstration of a field of high performance flat plate collectors with isothermal heat transport
[BMFT-FB-T-83-2] 15 p2362 N84-25171

Projects and programs as a reflection of the performances of engineers in aircraft making by Hans-Wocke
[MBB-UT-24-83-O] 16 p2433 N84-25608

Orbit maneuvers with finite thrust
[MBB-UR-654-83-O] 16 p2455 N84-25741

Kuwait, phase 3/stage 1: Application and test program for the Sulaibyah food/water/power system
[BMFT-FB-T-84-024] 16 p2476 N84-25876

EMV norms: Introduction to the norms of electromagnetic accomodation
[MBB-UR-652-83-O] 16 p2481 N84-25910

Iterative solution of the three-dimensional nonlinear potential equation of the gas dynamcis for ultrasonic flows 16 p2541 N84-26310

Technical and scientific publication 1983: Research and development 16 p2561 N84-26430

Magnetic roll/yaw attitude control of a momentum biased near polar orbit satellite
[MBB-UR-629-83-O] 16 p2561 N84-26432

Characterization of aluminum oxide layers
[MBB-BB-549-83-O] 16 p2561 N84-26433

Vortex flap system for thin wings
[MBB-FE-122/S/PUB/102] 16 p2562 N84-26435

The Airbus: The state-of-the-art today, and future developments
[MBB-UT-22-83-O] 16 p2562 N84-26437

Status and future application of the RF-propulsion systems RITA including interplanetary missions
[MBB-UR-646-83-O] 16 p2563 N84-26444

Transponder optimization by computer simulation
[MBB-UR-617-83-O] 16 p2563 N84-26445

Multiprofile-streak technique
[MBB-UA-776-83-O] 16 p2564 N84-26447

Characterizing shaped charge by stand-off behavior
[MBB-UA-693-83-O] 16 p2564 N84-26448

Image quality of passive and active scanners
[MBB-UA-684-83-O] 16 p2564 N84-26449

NC-controlled machine with a cable
[MBB-UT-21-83-O] 16 p2564 N84-26450

Important CAD/CAM utilization at MBB
[MBB-Z-13-83-O] 16 p2564 N84-26451

Project management in the 80's
[MBB-UR-631-83-O] 16 p2564 N84-26454

Final network: Objectives, scopes, benefits
[MBB-UR-670-83-O] 16 p2567 N84-26469

Study on critical assessment of IR CCD arrays for spaceborne reflected and thermal IR imagers
[ESA-CR(P)-1881] 17 p2616 N84-26744

Experimental exhaust plume investigation with MBB 10 N bipropellant thruster
[MBB-UR-558-84] 17 p2617 N84-26747

Aeroelastic problems caused by tornados and their successful treatment with technologies that result from experiences of precedent intensive technologic modernizing
[MBB-FE-294/S/PUB/110] 19 p3035 N84-29253

Wind energy converter GROWIAN 2
[BMFT-FB-T-84-063] 19 p3051 N84-29364

Simulation procedure for the calculation of aircraft noise 19 p3100 N84-29692

Continuous wave (CW) diode laser instrumentation for rendezvous and docking maneuvers in geosynchronous orbits 24 p3908 N84-34752

Laser diode range finder - target acquisition and tracking system functional model/demonstration model
24 p3908 N84-34754

MESSERSCHMITT-BOELKOW-BLOHM G.M.B.H., SCHROBENHAUSEN (WEST GERMANY).

Warheads for SAM systems 21 p3351 N84-31257

MESSINA UNIV. (ITALY).

The elements of the rotation matrices in terms of Rodriguez's parameters
[AD-A136550] 09 p1376 N84-18988

The optical spectra of aerosols
[AD-A135687] 09 p1377 N84-18993

The optical spectra of aerosols
[AD-A141571] 19 p3104 N84-29719
Scattering properties of a moving dielectric object
[AD-A142845] 21 p3386 N84-31489

METAALINSTITUT TNO, APELDOORN (NETHERLANDS).
Study of the lubrication mechanism of thin film lubricated concentrated steel contacts. The influence of pre-treatment of the steel on the load carrying capacity
[AD-A135067] 08 p1166 N84-17593

METALLGESELLSCHAFT, A.G., FRANKFURT AM MAIN (WEST GERMANY).
Heat pipes made of roll bond panels
[BMFT-FB-T-83-116] 02 p0242 N84-11588
Maintenance free lead acid battery with high cycle life and a new type of grid
[BMFT-FB-T-83-156] 05 p0677 N84-14453
Deep drawing of continuously cast and rolled zinc sheet
[BMFT-FB-T-83-214] 10 p1472 N84-19614
Utilization of zirconium wastes in Al-special alloys
[BMFT-FB-T-84-020] 16 p2485 N84-25802

METEOROLOGICAL OFFICE, BRACKNELL (ENGLAND).
Mathematical algorithms to maximize performance in numerical weather prediction 10 p1558 N84-20209
The use of observational studies in the design of oceanic atmospheric boundary layer parameterizations in atmospheric circulation models, appendix E
18 p2884 N84-26300
The cloudy marine boundary layer in the meteorological office climate model, appendix I
18 p2885 N84-26304
Comments on atmospheric boundary layer forcing of ocean models, appendix J 18 p2885 N84-26305

METEOROLOGICAL OFFICE, LONDON (ENGLAND).
Baroclinic inertial instability in the non-static equilibrium atmosphere
[BLL-TRANS-1568-(9022.552)] 08 p1189 N84-17751
Estimation of parameters of spray clouds
[BLL-TRANS-1571-(9022.552)] 08 p1190 N84-17752
Some parameters characterising the icing of ships from spray
[BLL-MO-TRANS-1570-(9022.552)] 08 p1190 N84-17753

METEOROLOGICAL SATELLITE CENTER, TOKYO (JAPAN).
Meteorological Satellite Center Technical Note, no. 8, 1983
[ISSN-0388-9653] 09 p1346 N84-18796
Comparison of the cloud top heights evaluated from GMS infrared image with the heights reported by air-line pilots, part 2 09 p1346 N84-18797
A comparison of moisture and temperature fields derived from meteorological satellite vertical sounding (NOAA-TOVS) data with Rawinsonde data, part 2
09 p1347 N84-18798
Analysis of sea ice in the Sea of Okhotsk using LANDSAT-MSS data (comparison with GMS data)
09 p1347 N84-18799
Partial level down in brightness of Geostationary Meteorological Satellite (GMS) infrared (IR) images caused by the Moon 09 p1347 N84-18800
Rapid fading of the signal level on 2 GHz microwave communication link between CDAS and MSC
09 p1347 N84-18801
VISSR observation of the solar eclipse in rapid-interval limited scan mode 09 p1347 N84-18802
A history of the satellite wind estimation at MSC and the present accuracy of satellite winds
09 p1347 N84-18803
On the infra-red brightness level increase caused by the sun light during the eclipse period
09 p1347 N84-18804
GMS observations of Typhoon 8305(Abby) and heavy rainfall of eastern Japan
[ISSN-0388-9653] 16 p2528 N84-26230
Introduction to Meteorological Satellite Center of Japan Meteorological Agency 21 p3446 N84-31864
GMS observations of Typhoon 8205, 8212, 8213
23 p3800 N84-34092
Meteorological Satellite Center Technical Note no. 9, 1984
[ISSN-0388-9653] 24 p3921 N84-34816
The Karman vortex street detected by the geostationary meteorological satellite Himawari
24 p3921 N84-34817
Clouds with appearance like Cb-cloud on satellite imagery 24 p3921 N84-34818
A new procedure of objective target cloud selection for the GMS cloud wind estimation system and the accuracy of the resultant wind vectors 24 p3921 N84-34819
An explanation of the revised DVORAK technique for estimating tropical cyclone intensity using satellite cloud imagery and some results of its application to two 1982 storms 24 p3921 N84-34820
VISSR IR grid data processing
24 p3922 N84-34821
Introduction to the International Satellite Cloud Climatology Project (ISCCP) 24 p3922 N84-34822

METGLAS PRODUCTS, PARSIPPANY, N.J.
Rapidly solidified alloys made by chill block melt-spinning processes 18 p2937 N84-28625

METROPOLITAN COLL. OF TECHNOLOGY, TOKYO (JAPAN).
Rotating and propagating LIB stabilized by self-induced magnetic field
[IPPJ-640] 03 p0444 N84-12916

METZELER KAUTSCHUK G.M.B.H., MUNICH (WEST GERMANY).
Use of radiation curing for the production of coated fabrics, profiles, flocking
[BMFT-FB-T-83-176] 07 p0980 N84-16350

MIAMI UNIV., CORAL GABLES, FLA.
Experimental hydrogen-fueled automotive engine design data-base project, volume 1
[DE83-017023] 02 p0204 N84-11331
Experimental hydrogen-fueled automotive engine design data-base project. Volume 2: Main technical report
[DE83-017025] 02 p0204 N84-11332
Interdisciplinary study on artificial intelligence
[AD-A131359] 02 p0278 N84-11819
Effect of inspiratory muscle fatigue on perception of added loads in humans 10 p1548 N84-20150
Experimental hydrogen-fueled automotive engine design data-base project. Volume 3: Main technical report (appendices)
[DE83-017362] 18 p2848 N84-28086
Numerical and analytical studies of steady detonation waves with expansion losses
[AD-A142601] 20 p3184 N84-30232
Holocene sediments and evolution of the Indian River (Atlantic coast of Florida) 21 p3426 N84-31730

MIAMI UNIV., FLA.
Magnetic anomalies in east Pacific using MAGSAT data
[E84-10060] 06 p0864 N84-15630
Subsynoptic variations in SEASAT winds
[PB84-131697] 09 p1350 N84-18823
Analysis of SEASAT wind observations in the Gulf of Mexico and the Caribbean Sea
[PB84-131309] 09 p1350 N84-18824
Optical thickness as related to pollutant episodes and the concentration of visibility degrading pollutants
[NASA-CR-175203] 10 p1531 N84-20028
Modeling of inhalation administration of vapors with capacity limited clearance
[AD-A138847] 13 p2020 N84-23098

MICHIGAN STATE UNIV., EAST LANSING.
Radar waveform synthesis for target identification
[AD-A130363] 01 p0063 N84-10412
Modifications of the boundary-element method for application to bending of layered composites
02 p0187 N84-11217
Studies of the correlation of electrode kinetics with molecular structure
[AD-A131704] 03 p0433 N84-12838
Photo interpretation key to Michigan land cover/use
[E84-10048] 04 p0553 N84-13641
Extending the lifetime of operational systems through corrosion tracking and prediction
[AD-A133931] 05 p0625 N84-14112
Transient waveform synthesis for radar target discrimination 05 p0664 N84-14366
A modular twin bus microprocessor system for laboratory automation
[AD-A133372] 06 p0896 N84-15815
Some topics in finite elasticity
08 p1169 N84-17614
The effect of locus of control on performance with man-machine dialogues 08 p1239 N84-18098
Studies on age-hardening in spinodally modulated alloys: Experimental and theoretical
[DE84-004650] 09 p1285 N84-18390
An attempt to localize and identify the gravity sensing mechanism of plants 09 p1352 N84-18833
Effect of temperature on some of the mechanical properties of Cu-10Ni-6Sn spinodal alloy
[DE84-004432] 10 p1461 N84-19538
Experimental validation of the component synthesis method for predicting vibration of liquid-filled piping
10 p1510 N84-19882
Performance feedback effects under varying conditions of goals, feedback type, and choice
[AD-A136703] 10 p1550 N84-20157
Computer simulations of gravitational encounters between pairs of binary star systems
10 p1595 N84-20456
Free stream turbulence and density ratio effects on the interaction region of a jet in a cross flow
11 p1611 N84-20546
The Alpha-Helix Concept: Innovative utilization of the Space Station Program. A report to the National Aeronautical and Space Administration requesting establishment of a Sensory Physiology Laboratory on the Space Station
[NASA-CR-175436] 11 p1621 N84-20610
Corrosion in large aircraft: Management of the problem 11 p1631 N84-20666
TEM studies on the deformation structure of Cu-10Ni-6Sn spinodal alloy
[DE84-004426] 11 p1635 N84-20690
Interpreting Michigan forest cover types from color infrared aerial photographs
[E84-10097] 12 p1828 N84-21917
Operationalizing halo: Problems with the computation of a standard deviation across dimensions within rates
[AD-A138393] 12 p1867 N84-22164
Use of remote sensing for land use policy formulation
[E84-10117] 14 p2167 N84-23977
Aerial photography for ecological site mapping
14 p2169 N84-23990
Ill-posed problems in optimal control systems and a method to solve them 17 p2756 N84-27497
Computer modeling of pulsed chemical lasers
[AD-A141889] 19 p3029 N84-29212
Spatial electron density and electric field strength measurements in microwave cavity experiments
[NASA-CR-173907] 22 p3582 N84-32682

MICHIGAN STATE UNIV., HICKORY CORNERS.
Limnology, second edition
[DE83-016792] 03 p0402 N84-12627
Dissolved organic matter and lake metabolism: Biochemistry and controls of nutrient flux dynamics in lakes
[DE83-016789] 04 p0571 N84-13761

MICHIGAN TECHNOLOGICAL UNIV., HOUGHTON.
Hydrogen embrittlement of titanium sheet under multiaxial deformation paths
[AD-A133846] 05 p0654 N84-14298
Deformation and fracture of P/M titanium alloys
[AD-A135612] 09 p1283 N84-18378
Properties of 3-dimensional energetic solids and molecular crystals
[AD-A137927] 11 p1744 N84-21382
Stochastic modeling of EDM with a view to off-line optimization
[PB84-162296] 17 p2639 N84-26885
Performance and test criteria for dc fuses, phase 1
[PB84-202662] 21 p3395 N84-31548
Microstructural development and control in liquid phase sintering; processing, structures and properties of cold worked metal matrix composites
[AD-A143188] 22 p3555 N84-32509

MICHIGAN UNIV., ANN ARBOR.
Curing of graphite/epoxy composites
01 p0030 N84-10186
Curing of graphite/epoxy composites
[AD-A130071] 01 p0030 N84-10191
Limit analysis of plates by a finite element approach
01 p0093 N84-10604
Centroid scaling of citation data: Charting the history of a scientific specialty, plate tectonics
01 p0104 N84-10673
Optimization of finite element grids using interpolation error 01 p0128 N84-10835
Eddy-correlation measurements of the resistance to vertical transport of ozone
[DE83-015363] 02 p0244 N84-11600
Gravitropic responses in the grass pulvinus: Model system for asymmetric growth 02 p0263 N84-11728
Calcium ions, stores, and modulators: What is the gravity receptor connection? 02 p0264 N84-11733
Bibliography of coefficient of friction literature relating to slip type accidents
[PB83-243626] 03 p0359 N84-12334
To quench our thirst: The present and future status of freshwater resources of the United States, part 3
[DE83-016791] 03 p0401 N84-12625
Relative symmetries of differential equations
[DE83-015231] 03 p0426 N84-12790
The 83-inch cyclotron research program
[DE83-015827] 03 p0435 N84-12852
Hadron-hadron collider group
[DE83-010704] 03 p0437 N84-12865
Slippery versus slip resistant work surfaces: The background for a regulatory definition
[PB83-243634] 04 p0516 N84-13392
Reflection and identification studies applied to terrain imaging radar
[AD-A132401] 04 p0520 N84-13419
Quasiconformal semiflows 04 p0576 N84-13792
The Crab Nebula: A theoretical and observational study 04 p0617 N84-14074

Studies of cataclysmic variables
04 p0619 N84-14084
Extragalactic emission-line objects and the Michigan-Tololo survey 04 p0622 N84-14101
The stratified turbulent mixing layer: Velocity and concentration measurements compared with a discrete vortex model 05 p0626 N84-14117
Optimum aerodynamic maneuvers of orbiting vehicles
05 p0629 N84-14133
Shock tube study of the ignition and combustion of aluminum
[AD-A134035] 05 p0661 N84-14345
Oscillations of a slowly rotating weakly stratified gaseous planet 05 p0765 N84-15016
Nonlinear inverse perturbation method in dynamic redesign 06 p0779 N84-15107
Asymptotic theory of an unseparated supersonic turbulent boundary layer at a compression corner
06 p0780 N84-15112
Design, construction, and use of a high-resolution, two-component LDA 06 p0833 N84-15419
Plastic flows of tubes and blocks
06 p0833 N84-15421
Heat generation in aircraft tires under braked rolling conditions
[NASA-CR-3768] 06 p0858 N84-15587
Vacuum ultraviolet photofragmentation of H2O and NO2: Laboratory studies and atmospheric applications
06 p0876 N84-15703
Scintillation chamber operation of calorimeters for colliding beam detectors 06 p0912 N84-15927
The perceptual component of relationships in library networks 06 p0934 N84-16070
Structure and characteristics of heterogeneous detonation
[AD-A134492] 07 p1002 N84-16497
Optimum design of millimeter-wave impatt diode oscillators
[AD-A135335] 08 p1151 N84-17489
Dynamic behavior of nonuniform tire/wheel assemblies
[PB84-125541] 08 p1167 N84-17598
Applications of Non-Self-Adjoint operator theory to the Singularity Expansion Method (SEM) and to the Eigenmode Expansion Method (EEM) in acoustic and electromagnetic problems
[AD-A135177] 08 p1219 N84-17955
Study of finitistic channel models
[AD-A136139] 09 p1303 N84-18521
Development of innovative millimeter-wave broadband mixers
[AD-A136134] 09 p1310 N84-18562
Protein changes in leaf-sheath pulvini of barley (hordeum) induced by gravistimulation
09 p1352 N84-18832
Mammalian gravity receptors: Structure and metabolism 09 p1353 N84-18840
Cellular localization of Na(+), K(+)-ATPase in the mammalian vestibular system 09 p1359 N84-18880
A CRAY-Class multiprocessor simulator
[AD-A136555] 09 p1365 N84-18913
Cluster analysis of rare earths in stellar spectra
09 p1410 N84-19222
Coordinated research in robotics and integrated manufacturing
[AD-A137042] 10 p1555 N84-20191
Chemiluminescent/laser diode measurement technique intercomparison and captive air measurement program
[PB84-134485] 11 p1661 N84-20839
Optimal maneuvers of orbital transfer vehicles
13 p1939 N84-22606
Microwave curing of composites
13 p1955 N84-22708
Adaptive array combined with spread spectrum in communications 13 p1976 N84-22825
Strength of bolted joints in laminated composites
13 p2002 N84-22992
The vertical redistribution of a pollutant tracer due to cumulus convection 13 p2013 N84-23057
Estimating monthly rainfall from geostationary satellite imagery over Amazonia, Brazil 13 p2016 N84-23069
Detection of dotted forms in a structured visual noise environment
[AD-A138853] 13 p2022 N84-23108
Adaptive control strategies for computer-controlled manipulators 13 p2023 N84-23114
Dynamics and evolution of cD galaxies
13 p2072 N84-23425
Martian paleoclimate 13 p2072 N84-23427
Measurement and analysis of diffuse solar irradiance
13 p2091 N84-23546
INTFL-8401 computer tomography for interferomatic aerodynamic measurements
[AD-A139591] 14 p2101 N84-23611
Modeling of zero gravity venting
[NASA-CR-173503] 14 p2145 N84-23854
The detection of nonplanar surfaces in visual space
[AD-A138761] 14 p2185 N84-24093
The detection of faint space objects using solid state imaging detectors
[AD-A139297] 14 p2250 N84-24513
Influence of extended exposure in space on mechanical properties of high-toughness graphite-epoxy composite material (A0019) 15 p2271 N84-24637
Pressure induced radial diffusion of a fluid through a thick walled highly elastic cylinder
15 p2313 N84-24881
The interaction of large space structures with the near-Earth environment
[AD-P002115] 16 p2523 N84-26201
The simulation of deformable mechanical systems using vector processors 17 p2675 N84-27045
Strength of bolted joints in laminated composites
[AD-A141826] 19 p2966 N84-28921
Vectorized sparse elimination
[AD-A141131] 19 p3095 N84-29657
Large-signal characterization of nonlinear two-port active networks
[AD-A142462] 20 p3178 N84-30184
Lossless symmetric TEM line IMPATT diode power combiners
[AD-A142599] 20 p3178 N84-30187
Characterization of real-time computers
[NASA-CR-3807] 20 p3277 N84-30801
A model of inter-organizational influences on organizational processes
[AD-A142450] 20 p3313 N84-31037
Effect of crystallization of grain boundary phase on the high temperature strength of silicon nitride ceramics
[DE84-011786] 21 p3371 N84-31392
Comparison of CRT (Cathode Ray Tube) antireflection filters
[PB84-202753] 22 p3590 N84-32742
Thermally induced instabilities of two-layer fluid systems 22 p3592 N84-32745
The chemical and physical changes on lubricated surfaces 22 p3602 N84-32820
Simplifications in the simulation of mechanisms containing flexible members 22 p3607 N84-32855
Remote sensing for geobotanical prospecting
22 p3613 N84-32889
Diagensis and deformation of the Madison Group, Colorado and Utah overthrust belt
22 p3620 N84-32938
The allocation of data and programs in distributed data processing environments 22 p3670 N84-33261
A methodology for the distribution of databases
22 p3670 N84-33265
Adaptive subject description in document retrieval
22 p3675 N84-33298
Ground-based observations of equatorial thermosphere dynamics with a Fabry-Perot interferometer
[NASA-CR-174005] 24 p3933 N84-34897
White light optical information processing
[AD-A144142] 24 p3963 N84-35096

MICHIGAN UNIV., FLINT.
Wind erosion and dune formation on high frozen bluffs
13 p2062 N84-23493

MICRO-SURFACE FINISHING PRODUCTS, INC., WILTON, IOWA.
The reduction of life-cycle costs through continuing acrylic maintenance
[AD-P003224] 17 p2596 N84-26637

MICROELECTRONICS CENTER OF NORTH CAROLINA, RESEARCH TRIANGLE PARK.
The Microelectronics Center: A new force in cooperative VLSI signal processing research
09 p1403 N84-19166

MICROWAVE ASSOCIATES, INC., BURLINGTON, MASS.
Development of innovative millimeter-wave broadband mixers
[AD-A136134] 09 p1310 N84-18562

MIDDLE EAST TECHNICAL UNIV., ANKARA (TURKEY).
Aeroacoustic noise measurements in wind tunnel
14 p2097 N84-23584
Evaluation of multi-dimensional flux models for radiative transfer in combustion chambers: A review
15 p2293 N84-24760
A droplet evaporation rate controlled combustion model 15 p2293 N84-24761
Middle East Technical University Journal of Pure and Applied Sciences, volume 15, no. 2
15 p2401 N84-25406
Lower and upper bounds for EXP d+(X,Y)
15 p2401 N84-25408
Query execution in the distributed RAP DBM systems
15 p2401 N84-25409
The effect of loading rate and temperature on fracture initiation toughness in a low strength steel
15 p2401 N84-25410
Middle East Technical University Journal of Pure and Applied Sciences, volume 15, no. 3
15 p2401 N84-25411
Selection of a mineral-base lubricant for the cold rolling of aluminum strip 15 p2401 N84-25412
Electron paramagnetic resonance (EPR) study of calcite (CaCO3) containing both Mn-2+ and Pb-2+ cations
15 p2401 N84-25413
Effect of iron on the electron paramagnetic resonance (EPR) spectra of Mn-2+ ions in polycrystalline calcite
15 p2402 N84-25414
Free vibration analysis of uniform and nonuniform cantilever beams by including the effects of transverse shear deformation and rotary inertia
15 p2402 N84-25417
Application of regular associated solution model to the liquidus curves of the Sn-Te and Sn-SnS systems
15 p2402 N84-25418

MIDDLE TENNESSEE STATE UNIV., MURFREESBORO.
A report on superfluid helium flow through porous plugs for space science applications 06 p0930 N84-16043
Population control of self-replicating systems: Option C 06 p0930 N84-16044

MIDDLETON (DAVID), NEW YORK.
Multiple-element threshold signal detection of underwater acoustic signals in nongaussian interference environments
[AD-A140620] 17 p2763 N84-27548

MIDWEST RESEARCH INST., GOLDEN, COLO.
Oil/salt hydrate direct-contact heat-exchange experiments
[DE83-009396] 01 p0082 N84-10533
Height extrapolation of wind data
[DE83-012974] 01 p0109 N84-10706
Acoustic ranging technique with application to assessment of low-frequency acoustic noise of wind turbines
[DE83-009106] 01 p0140 N84-10921
Ethanol fuels reference guide: A decision-makers guide to ethanol fuels
[DE83-014401] 02 p0204 N84-11329
Raft thermocline thermal storage
[DE83-011962] 02 p0218 N84-11431
Acoustical measurements of DOE/NASA MOD-0 wind turbine at Plum Brook Station, Ohio
[DE83-011971] 02 p0242 N84-11584
Matrix approach for testing mirrors, part 1
[DE83-009398] 02 p0242 N84-11585
Photovoltaics advanced research and development bibliography
[DE83-009399] 02 p0302 N84-11983
Review of potential satellite techniques for mesoscale mapping of insolation
[DE83-011998] 03 p0401 N84-12622
Polymer degradation on reflecting metal films: Fourier transform infrared (FTIR) reflection-absorbance studies
[DE83-012129] 03 p0404 N84-12641
Thermochemical energy systems research
[DE83-012132] 03 p0404 N84-12644
Passive-solar performance: Summary of 1981-1982 class B results
[DE83-009407] 03 p0405 N84-12650
Model for illuminance on horizontal and vertical surfaces
[DE83-011973] 03 p0475 N84-13127
Graphical method for determining interflected daylight in clear climates
[DE83-011989] 03 p0475 N84-13128
Experimental study of three-dimensional natural convection at high Rayleigh number
[DE83-011982] 04 p0537 N84-13530
Design analysis of advanced photovoltaic technologies
[DE84-000008] 04 p0557 N84-13675
Matrix approach to testing mirrors, part 2
[DE83-011996] 04 p0558 N84-13676
County-level wind resource estimates for DOE Region 5
[DE84-000009] 04 p0566 N84-13744
Yields photosynthetic efficiencies, and proximate chemical composition of dense cultures of marine microalgae, a subcontract report
[DE83-011992] 04 p0570 N84-13757
Analysis and modeling of photosynthetic bacterial hydrogen production plants
[DE84-000003] 04 p0570 N84-13758
Proceedings of the US Department of Energy Photovoltaics Program Annual Review
[DE83-010325] 05 p0699 N84-14589
New polyconjugated oxidation-reduction polymers, as well as a method and apparatus for electrochemical regeneration
[DE84-002813] 06 p0810 N84-15276
Evaluation of air-cooled central receivers
[DE83-005130] 06 p0833 N84-15423

Direct steam generation in line-focus solar collectors
[DE83-006030] 06 p0872 N84-15678
The SERI advanced and innovative wind energy concepts program
[DE83-011960] 06 p0873 N84-15680
Determination of freeze protection heat loss from a parabolic trough solar system
[DE84-000005] 06 p0874 N84-15689
Progress in polycrystalline thin-film solar cells
[DE83-012131] 06 p0875 N84-15691
Aerodynamic sources of acoustic radiation from a single MOD-2 wind turbine
[DE84-000013] 06 p0909 N84-15905
Biomass electrochemistry
[DE84-000020] 07 p0971 N84-16293
High-temperature direct absorption research
[DE84-000019] 07 p1003 N84-16505
Solid State Photovoltaics Research Branch
[DE84-000022] 07 p1083 N84-17043
Polymeric glazings
[DE84-000016] 08 p1138 N84-17402
Advanced photovoltaic system simulator to demonstrate the performance of advanced photovoltaic cells and devices
[DE83-009405] 08 p1180 N84-17688
Television interference measurements near the MOD-2 WT array at Goodnoe Hills, Washington
[DE84-000030] 10 p1482 N84-19688
Solar Thermal Technology Program: Polymer synthesis and characterization subtask, FY 1983
[DE84-000094] 10 p1530 N84-20022
Meteorological/atmospheric effects on the performance of solar photovoltaic energy conversion devices
[DE84-000018] 11 p1674 N84-20927
Air/molten salt direct-contact heat-transfer experiment and economic analysis
[DE84-000060] 11 p1675 N84-20928
Active solar heating and cooling program. Polymer stabilization film-forming, high-temperature polymers
[DE84-000093] 11 p1675 N84-20929
Photovoltaic energy systems
[DOE/CE-0033/1] 12 p1838 N84-21979
Materials and cells for high-efficiency solar-to-electric conversion
[DE83-011961] 12 p1843 N84-22015
Low-temperature IPH parabolic troughs: Design variations and cost-reduction potential
[DE84-000024] 12 p1843 N84-22016
Oscillating wind energy conversion systems
[DE84-000067] 12 p1843 N84-22018
R and D decision methods for photovoltaic program planning
[DE84-000011] 12 p1918 N84-22494
Photovoltaic energy systems: Program summary fiscal year 1983
[DE84-009179] 15 p2364 N84-25186
Artificial upwelling driven by salinity differences in the ocean
[DE84-000066] 15 p2374 N84-25244
Solar and internal gain adjustments in calculation of energy conservation savings
[DE83-011983] 16 p2512 N84-26119
Wind energy systems for electric utilities: A synthesis of value studies
[DE83-011968] 16 p2512 N84-26121
An assessment of dehumidifier geometries for desiccant cooling systems
[DE83-011991] 16 p2512 N84-26123
Technical and cost benefits of lightweight, stretched-membrane heliostats
[DE83-009408] 16 p2513 N84-26124
Measured versus predicted performance of the SERI test house: A validation study 16 p2513 N84-26128
Predicting energy savings attributed to daylighting 16 p2514 N84-26132
Passive solar manufactured buildings development and analyses 16 p2514 N84-26137
Measured performance of 50 passive solar residences in the United States 16 p2514 N84-26138
The transfer of passive research and development results to industry and the user community 16 p2516 N84-26151
Solid state phase change materials for thermal energy storage in passive solar heated buildings 16 p2518 N84-26163
Protecting wind access: A preliminary assessment
[DE83-011970] 16 p2528 N84-26227
Preliminary comparison of insolation measurements, forecasts, and estimates from satellite imagery
[DE84-004435] 18 p2883 N84-28293
Orientation and morphology effects in rapid silicon sheet solidification 18 p2937 N84-28627
Solid state photovoltaic research
[DE84-004494] 18 p2942 N84-28656
Research directions and progress in SERI advanced high efficiency concepts program 19 p3046 N84-29325
Survey of the preparation, purity, and availability of silanes
[DE84-000090] 20 p3163 N84-30084
Requirements for high-temperature air-cooled central receivers
[DE84-000081] 20 p3235 N84-30534
Performance tests of the Solar Steam, Incorporated, 9-m deep-dish solar concentrating collector
[DE84-000079] 20 p3235 N84-30535
Photo/Biological Hydrogen Principal Investigators Review Meeting: Proceedings of the May 1983 Program Review
[DE84-000083] 20 p3235 N84-30536
Technical and cost potential for lightweight, stretched-membrane heliostat technology
[DE84-004433] 20 p3236 N84-30543
Sunlight probability data for select cities in the US
[DE84-000006] 20 p3247 N84-30605
Selected bibliography of solar thermal literature. Volume 1: Bibliography
[DE84-011386] 20 p3315 N84-31052
Solar Radiation Data Directory: A guide to solar radiation and meteorological data collection activities in the US
[DE84-000095] 20 p3315 N84-31057
Wind energy: a brief assessment
[DE84-012208] 21 p3434 N84-31788
SERI photovoltaics advanced research and development: FY 1983 accomplishments
[DE84-004493] 21 p3434 N84-31789
Wind energy systems for electric utilities: A synthesis of value studies
[DE84-004520] 21 p3435 N84-31796
Selected bibliography of solar thermal literature. Volume 2: Indexes
[DE84-009363] 21 p3518 N84-32288
CdS/CuInSe2 heterojunction cell research
[DE84-004508] 22 p3618 N84-32926
Proceedings of the Solar Thermal-Photochemical Conversion Workshop
[DE84-000089] 22 p3619 N84-32929
Evaluation of sulfuric acid hydrolysis processes for alcohol fuel production
[DE84-004524] 23 p3715 N84-33548
Insolation assessment studies
[DE84-004523] 23 p3798 N84-34084
Documentation of data processing procedures and extension of Class B data analysis
[SERI/STR-254-2085] 23 p3815 N84-34189
Thin-film photovoltaic research and development program of the Solar Energy Research Institute
[SERI/TP-211-2125] 23 p3829 N84-34290
An experimental approach to evaluating environmental degradation mechanisms in bisphenol-A polycarbonate films on metallic substrates
[SERI/TR-255-1602] 24 p3917 N84-34798

MIDWEST RESEARCH INST., KANSAS CITY, MO.
Task validation for studies on fragmented sleep and cognitive efficiency under stress
[AD-A130260] 01 p0116 N84-10753
Appraisal of scientific resources for emergency management
[AD-A133285] 06 p0933 N84-16062
Experimental results for the rapid determination of the freezing point of fuels
[NASA-CR-168305] 09 p1290 N84-18419
Comprehensive assessment of the specific compounds present in combustion processes. Volume 1: Pilot study of combustion emissions variability
[PB84-140870] 11 p1630 N84-20665
Containerless high temperature property measurements by atomic fluorescence
[NASA-CR-171038] 15 p2412 N84-25481

MIKROS SYSTEMS CORP., MERCERVILLE, N.J.
A new silicon-on-sapphire MIL-STD-1750A microprocessor
[AD-P003551] 21 p3334 N84-31155

MILAN UNIV. (ITALY).
Application of multivariate analysis to the parameters of parameters of astrophysical objects 09 p1408 N84-19199
Self-pulsing, breathing and chaos in optical bistability and the laser with injected signal 14 p2232 N84-24386
Effects of the radial variation of the electric field on some instabilities in lasers and in optical bistability 14 p2238 N84-24433
Interactive Automatic System (iasp): An expert system to help photointerpretation 23 p3779 N84-33961
UV observations on the variable quasar PG 1351+64 24 p3972 N84-35153
Preliminary results of coordinated optical UV and X-ray observations of magnetic white dwarfs in binaries 24 p3980 N84-35216

MILCOM, INC., NEEDHAM, MASS.
Effect of spatial decorrelation on nulling performance of linear adaptive array
[AD-A143013] 21 p3400 N84-31570

MILITAIR HOSPITAAL DR. A. MATHIJSEN, UTRECHT (NETHERLANDS).
Ophthalmological investigation among contact lens wearers in military service
[REPT-AR/MHAM-1983-1] 21 p3458 N84-31940

MILITARY ACADEMY, WEST POINT, N. Y.
Impact of IPAD on CAD/CAM database university research 12 p1891 N84-22318
The role of relevant experience and intellectual ability in determining the performance of military leaders: A contingency model explanation
[AD-P003303] 18 p2909 N84-28448
Teaching Ada (trademark) at the US Military Academy
[AD-P003418] 20 p3270 N84-30750

MILLSAPS COLL., JACKSON, MISS.
Rheoceptive mediators of graviperception in a water flea: Morphological implications of antennal-socket setae in daphnia magna 09 p1360 N84-18883

MINDLIN (RAYMOND D.), GRANTHAM, N.H.
Vibrations of doubly-rotated-cut quartz plates with monoclinic symmetry
[AD-A135948] 09 p1377 N84-18996

MINE SAFETY AND HEALTH ADMINISTRATION, DENVER, COLO.
Use of aircraft imagery in evaluating ground stability at open-pit uranium mines in Gas Hills, Wyoming
[DE83-903011] 03 p0401 N84-12621

MINISTERE DE L'ENVIRONMENT ET DU CADRE DE VIE, NEUILLY (FRANCE).
Actual state and recent evolution of the French coast observed by remote sensing using LANDSAT recordings 03 p0399 N84-12606
Remote sensing applied to marine pollution control 03 p0399 N84-12607

MINISTERO DELL'AGRICOLTURA E DELLE FORESTE, ROME (ITALY).
Problems in hail prevention 18 p2888 N84-28328

MINISTRY OF COMMUNICATIONS, TAIPEI (TAIWAN).
On the study of the prediction method of ionospheric F2-layer critical frequency 24 p3955 N84-35043
Some preliminary results of ionospheric slab thickness observations at Lunping 24 p3956 N84-35045
A further study on the spatial correlation of the total electron content at pairs of subionospheric points located at the Crest Zone of the Equatorial Anomaly 24 p3956 N84-35046

MINISTRY OF DEFENCE, LONDON (ENGLAND).
Some comments on the hazards associated with manoeuvring flight in severe turbulence at high speed and low altitude 06 p0776 N84-15089
Artificial aging of transparent aerospace materials
[AD-P003210] 17 p2593 N84-26623

MINISTRY OF DEFENCE, WALTHAM ABBEY (ENGLAND).
The locus of environmental crack growth in bonded aluminium alloy joints
[AERE-R-11069] 18 p2816 N84-27880

MINISTRY OF NATIONAL DEFENCE, ATHENS (GREECE).
On the generation of vortical flow at hypersonic speeds over elliptical cones 03 p0323 N84-12114

MINISTRY OF POSTS AND TELECOMMUNICATIONS, TOKYO (JAPAN).
Measurements of microwave backscattering signatures of the ocean surface using X-band and Ka-band airborne scatterometer/radiometer system 23 p3771 N84-33907

MINISTRY OF TRANSPORT AND CIVIL AVIATION (ENGLAND).
Deficiencies of current flight data recorders in accidents investigation 17 p2586 N84-26575

MINNESOTA DEPT. OF ENERGY AND ECONOMIC DEVELOPMENT, ST. PAUL.
Zoning for wind machines: A guide for Minnesota communities
[PB84-129568] 10 p1531 N84-20027

MINNESOTA MINING AND MFG. CO., ST. PAUL.
Versatile fire barrier systems for telephone cable 11 p1723 N84-21241
Polymeric web lens evaluation
[DE84-010108] 19 p3000 N84-29013

MINNESOTA UNIV., DULUTH.
Clastic sedimentary rocks of the Michipicoten Volcanic-sedimentary belt, Wawa, Ontario 11 p1679 N84-20960
Cerebral metabolism and blood brain transport: Toxicity of organophosphorous compounds
[AD-A142705] 22 p3630 N84-33005

MINNESOTA UNIV., MINNEAPOLIS.
Optimizing coagulation-adsorption for haloform and TOC (Total Organic Carbon) reduction
[PB83-210757] 01 p0058 N84-10378

Computation of three-dimensional flows in ducts of varying cross sections
[AD-A130194] 01 p0078 N84-10509
Effect of periodic, tapered enlargements and contractions on turbulent heat transfer and fluid flow in a circular duct 02 p0217 N84-11422
Evaluation of some remote sensing techniques for oil and crop management 02 p0234 N84-11538
Turbulent tube-flow heat transfer coefficients in the presence of flow imbalance in the tubes of a parallel array 03 p0374 N84-12437
Positive ion-molecule reactions in OCS/hydrocarbon mixtures
[AD-A132350] 04 p0493 N84-13237
Quasiconformal mappings with free boundary components 04 p0577 N84-13801
Scheduling supercomputers
[AD-A132512] 04 p0579 N84-13822
Study of plasma chemistry and plasma processing
[AD-A132207] 04 p0606 N84-13997
Far infrared studies on superconductors and heat-capacity studies on liquid crystals
[DE84-001105] 04 p0613 N84-14046
A second kind of Beam-Plasma Discharge (BPD): Rocket and laboratory results 05 p0637 N84-14193
Wave attenuation in damped periodic structures
[AD-A133736] 05 p0693 N84-14550
Fault detection using abstracted models of finite-state machines 05 p0721 N84-14724
Far-infrared studies on superconductors and heat-capacity studies on liquid crystals
[DE84-001123] 05 p0756 N84-14957
Sputtering of multicomponent materials 06 p0816 N84-15312
Energy absorption by polymer crazing
[NASA-CR-173275] 07 p0978 N84-16335
Propagation of crazing in viscoelastic media
[NASA-CR-173244] 07 p1015 N84-16583
Deterministic chaos in materials exhibiting phase transitions
[AD-A135172] 08 p1158 N84-17537
Electron ballistic effects in III-V semiconductors
[AD-A135353] 08 p1235 N84-18072
The ISPM unified radio and plasma wave experiment 09 p1262 N84-18237
A Systolic Design Rule Checker (SDRC)
[AD-A136194] 09 p1378 N84-19006
Continuous chemical reaction chromatography
[DE84-004089] 10 p1456 N84-19509
Extragalactic radio sources: Rapid variability at 90 GHz
[AD-A136533] 10 p1595 N84-20451
Eigenspace design techniques for active flutter suppression 11 p1617 N84-20581
Shearing deformation of simple materials 11 p1666 N84-20872
The study of a mass spectrometer-beam system for measurements of ozone and other minor constituents of the stratosphere 11 p1677 N84-20942
High temperature oxide electrolytes for the splitting of water. The ROC process 11 p1740 N84-21351
Film cooling on a gas turbine blade near the end wall
[AD-A138794] 13 p1933 N84-22569
Wave attenuation in periodic structures
[AD-A138924] 13 p2001 N84-22984
Asymptotics and numerics
[AD-P002934] 14 p2196 N84-24174
Nonuniqueness and stability of the configuration of flow of immiscible fluids with different viscosities
[AD-P002937] 14 p2196 N84-24177
Helical shear of an elastic circular tube with non-convex stored energy 15 p2313 N84-24882
Sputtering as a technique for applying tribological coatings 15 p2342 N84-25059
Time dependent quasifracture nucleation and propagation 15 p2349 N84-25097
A theoretical analysis of the aerodynamic and structural forces associated with a ribbon parachute canopy in steady descent 16 p2443 N84-25671
Second-order effects in complex rheological flows 16 p2494 N84-25999
Floating potentials and the hot plasma generated by an electron-beam-emitting rocket in the ionosphere
[AD-P002107] 16 p2522 N84-26193
High temperature oxide electrolytes for the splitting of water--the ROC process
[AD-A140881] 17 p2620 N84-26765
Studies of heat transfer in complex internal flows
[AD-A140804] 17 p2668 N84-27014
Studies of acoustical properties of bulk porous flexible materials
[NASA-CR-173622] 17 p2762 N84-27544
Surface acoustic admittance and absorption of highly porous, layered, fibrous materials 17 p2762 N84-27545
Acoustic structure and propagation in highly porous, layered, fibrous materials 17 p2762 N84-27546
Absorptive surfaces of extended reaction angle of incidence considerations 17 p2763 N84-27547
Elemental advances of ultraheavy cosmic rays
[NASA-CR-173650] 17 p2781 N84-27658
Data compression techniques for astronomy 18 p2842 N84-28041
Techniques of isophotometry 18 p2842 N84-28042
Vertebrate behavior and ecology
[DE84-007318] 20 p3257 N84-30673
Simple examples of non linear truss behavior
[AD-A143368] 22 p3611 N84-32882
Raman spectroscopic study of acetylene on supported rhodium catalysts
[AD-A144099] 23 p3714 N84-33544
The effect of internal hydrogen on near-threshold fatigue crack propagation in iron base systems 23 p3717 N84-33560
Heat transfer from a circular cylinder due to a slot jet impingement 23 p3746 N84-33747
Rapid determination of upper and lower bounds to buckling loads and natural frequencies of non-uniform bars 23 p3759 N84-33827
Computer-based measurement of intellectual capabilities
[AD-A144065] 23 p3810 N84-34162

MINNESOTA UNIV., ST. PAUL.

A study of Minnesota land and water resources using remote sensing
[E84-10023] 02 p0237 N84-11558
Experimental study of the thermodynamics of thin films and surfaces
[DE84-010361] 18 p2943 N84-28660
Study of variable extinction of hot stars with circumstellar dust shells
[NASA-CR-173844] 21 p3522 N84-32315
Changes in TM response of soil scenes due to tillage, residue, and weathering 23 p3766 N84-33874

MISSION RESEARCH CORP., ALBUQUERQUE, N. MEX.

Single event upset phenomena from high energy neutrons
[AD-A131287] 02 p0292 N84-11914
Beam propagation experimental study
[AD-A133310] 06 p0915 N84-15946
Toroidal self-field corrections to the linear dispersion relation for the negative mass instability in a modified betatron
[AD-A135940] 09 p1377 N84-18995
Modified betatron accelerator studies
[AD-A137508] 10 p1576 N84-20329

MISSION RESEARCH CORP., ALEXANDRIA, VA.

Numerical simulations of the NRL collective particle accelerator
[AD-A135533] 08 p1228 N84-18028

MISSION RESEARCH CORP., SAN DIEGO, CALIF.

Nuclear-induced lightning aurora experiment
[AD-A131274] 02 p0249 N84-11628
Ion-ion recombination rate in the EMP source region
[AD-A131148] 03 p0360 N84-12339
Electron charging and SGEMP (System Generated Electromagnetic Pulse) studies on satellite dielectrics
[AD-A143012] 21 p3353 N84-31268

MISSION RESEARCH CORP., SANTA BARBARA, CALIF.

Forbidden line radiation cooling of high altitude plasmas
[AD-A131266] 01 p0149 N84-10979
The effects of aperture antennas after signal propagation through anisotropic ionized media
[AD-A138286] 12 p1807 N84-21781

MISSISSIPPI STATE HIGHWAY DEPT., JACKSON.

Evaluation of Chem-Crete high strength modified asphalt concentrate
[PB84-105089] 08 p1172 N84-17636

MISSISSIPPI STATE UNIV., MISSISSIPPI STATE.

An analytical and experimental study of spectral analysis techniques for turbulence data obtained using laser velocimetry 02 p0217 N84-11424
A fully vectorized numerical solution of the incompressible Navier-Stokes equations
[NASA-CR-174496] 04 p0531 N84-13491
Numerical solution of the Navier-Stokes equations for arbitrary 2-dimensional multi-element airfoils
[NASA-CR-173251] 07 p1061 N84-16876
The generation of three-dimensional body-fitted coordinate systems for viscous flow problems
[AD-A136503] 09 p1314 N84-18588
Application of remote sensing to state and regional problems
[E84-10128] 14 p2168 N84-23986
Biochemical studies on the initiation of odor sensing
[AD-A129926] 14 p2184 N84-24085
Generation of three dimensional grids through elliptic differential equations 16 p2491 N84-25983
The importance of dynamically-adaptive grids in the numerical solution of partial differential equations 16 p2492 N84-25984
High density circuit technology
[NASA-CR-162039] 19 p3012 N84-29089
High density circuit technology, part 3
[NASA-CR-162040] 19 p3012 N84-29090
High density circuit technology
[NASA-CR-162041] 19 p3012 N84-29091
High density circuit technology, part 1
[NASA-CR-162008] 19 p3012 N84-29094
Generalized roughness effects on turbulent boundary layer heat transfer. A discrete element predictive approach for turbulent flow over rough surfaces
[AD-A141943] 20 p3183 N84-30227
Analysis of space telescope data collection systems
[NASA-CR-171129] 21 p3464 N84-31958
System analysis for the Huntsville Operational Support Center distributed computer system
[NASA-CR-171136] 22 p3643 N84-33097
Quasiconformal mappings and grid generation
[NASA-CR-173920] 22 p3644 N84-33105
A fully vectorized numerical solution of the incompressible Navier-Stokes equations 23 p3688 N84-33375
Transonic viscous-inviscid interaction using Euler and inverse boundary-layer equations 23 p3688 N84-33376

MISSISSIPPI STATE UNIV., STATE COLLEGE.

The use of an adaptive grid in a solution of the Navier-Stokes equations for incompressible flow 02 p0173 N84-11139
Preliminary designs for modifications to the X-ray source and beam monitor of the Marshall Space Flight Center's X-ray Calibration Facility 06 p0928 N84-16032
An evaluation of Techroll seal flexible joint material 06 p0929 N84-16037
Three-dimensional unsteady Euler equation solutions using flux vector splitting
[NASA-CR-173254] 07 p1058 N84-16857
Three-dimensional, time-dependent, compressible, turbulent, integral boundary layer equations in general curvilinear coordinates and their numerical solutions 22 p3529 N84-32348
An investigation of a new flight test method for measuring the performance of general aviation aircraft 22 p3534 N84-32375
A discrete element prediction approach for turbulent flow over rough surfaces 23 p3746 N84-33744

MISSISSIPPI UNIV., UNIVERSITY.

Amplification of sound by gas phase reactions
[AD-A133747] 05 p0649 N84-14266
An acoustic levitation technique for the study of nonlinear oscillations of gas bubbles in liquids
[AD-A132858] 05 p0681 N84-14477
Propagation of sound through a gas with an over-population of excited vibrational states
[AD-A134181] 07 p1070 N84-16950
An experimental study of cylindrical antennas radiating in or near a lossy half space
[AD-A138206] 12 p1807 N84-21779
An analysis of the coax-fed monopole in a general medium
[AD-A137981] 12 p1811 N84-21805
Scattering of an electromagnetic plane wave from a perfectly electrically conducting half-plane in the proximity of planar media discontinuities
[AD-A138968] 13 p1983 N84-22876
Mie scattering as a technique for the sizing of air bubbles
[AD-A142737] 21 p3498 N84-32170
Severe storm electricity 24 p3926 N84-34851

MISSOURI UNIV., COLUMBIA.

A climatology of synoptic scale atmospheric structure prior to severe convective storms 02 p0253 N84-11653
Estimation of two-parameter logistic item response curves
[AD-A137223] 10 p1569 N84-20280
Image compression: A 2-dimensional run-length coding 13 p2030 N84-23162
Contextual classification of remotely sensed data 17 p2708 N84-27245
An investigation of organizational climate: Definition, measurement, and usefulness as a diagnostic technique 17 p2771 N84-27595
A relational database system for microcomputers: Analysis, design, implementation and performance evaluation 17 p2771 N84-27598
Near-infrared surface photometry of barred spiral galaxies 17 p2775 N84-27618
Schottky barrier and homojunction gallium arsenide solar cells 22 p3615 N84-32907

Analysis of reward functions in learning: Unconscious information processing: Noncognitive determinants of response strength
[AD-A144152] 24 p3937 N84-34920

MISSOURI UNIV., KANSAS CITY.
Optical properties of natural minerals and other materials in the 350-50000 cM-1 spectral region
[AD-A133530] 06 p0918 N84-15965
Passive yaw damping of a teetered rotor versus delta-3 angle values
[DE84-009758] 20 p3236 N84-30545
Operation and calibration of the Wincharger 450 model SWECS
[DE84-009757] 20 p3237 N84-30546

MISSOURI UNIV., ROLLA.
Experimental determination of transport coefficients in CO2 laser gas mixtures
[DE83-013638] 01 p0088 N84-10572
Robust estimates of ordered parameters
[AD-A131204] 02 p0282 N84-11846
Tests for an increasing trend in the intensity of a Poisson process: A power study
[AD-A131213] 02 p0285 N84-11867
Tests for and against trends among Poisson intensities
[AD-A131212] 02 p0285 N84-11868
Effect of radiofrequency radiation on DNA duplex stability and replication
[AD-A133526] 07 p1042 N84-16759
Characterization of high temperature electrically conducting oxides
[DE84-002687] 08 p1236 N84-18076
Reliability studies of ceramic capacitors
[AD-A136378] 09 p1287 N84-18403
Redox behavior of high temperature electrodes 11 p1741 N84-21359
The database management system: A topic and a tool 12 p1891 N84-22316
Approximating the level probabilities in order restricted inference: The simple tree ordering
[AD-A140684] 17 p2760 N84-27525
Neutron diffraction studies of some rare earth-transition metal deuterides
[AD-A140757] 17 p2764 N84-27557
Research support for plasma diagnostics on Elmo Bumpy Torus - development of a multichannel Hall-probe based diamagnetic diagnostic instrument and observation and modeling of EBT electron rings
[DE84-008810] 18 p2933 N84-28600
Weight characteristics of future spacecraft thermal management systems
[AD-A141403] 19 p2982 N84-28895
MEA/A-1 experiment 81F01 conducted on STS-7 flight, June 1983. Containerless processing of glass forming melts
[NASA-CR-171048] 19 p2997 N84-28993
Kinetic processes in high pressure gases. Excited state collisions
[AD-A141827] 20 p3152 N84-30016
Electrochemistry Research Needs for Mineral and Primary Materials Processing: Report of Workshop
[PB84-192905] 20 p3159 N84-30062
Effects of radiofrequency radiation on differentiation of erythroleukemic cells
[AD-A143038] 21 p3453 N84-31914
Calorimetric determination of the thermodynamic behavior of reversible liquid-phase reactions for use in energy storage
[DE84-010437] 21 p3507 N84-32218

MISSOURI UNIV., ST. LOUIS.
Low energy ion-neutral collisions
[DE84-005392] 11 p1730 N84-21287

MITCHELL AND GAUTHIER ASSOCIATES, HUNTSVILLE, ALA.
ACSL (Advanced Continuous Simulation Language) simulation of a third order Butterworth filter using implementations derived from both Z and S domain representations
[AD-A140302] 16 p2545 N84-26335

MITCO TOOL CO., PIETERMARITZBURG (SOUTH AFRICA).
High speed steel special cutting tools: Their design and application 09 p1292 N84-18443

MITRE CORP., BEDFORD, MASS.
Efficient utilization of the DRAMA service channel
[AD-A133286] 06 p0823 N84-15368
Jam-resistant speech encoding
[AD-A134707] 08 p1145 N84-17448
HQ AFSC selection of a microprocessor development system
[AD-A134930] 08 p1210 N84-17891
Hewlett-Packard 7221T plotter user's manual
[AD-A135881] 09 p1368 N84-18929
ARDS (Automated Requirements Development System) user's manual. Volume 1: Document analysis, revision
[AD-A135925] 09 p1398 N84-19128
Effective Earth radius for refraction of radio waves at altitudes above 1 km
[AD-A137095] 10 p1482 N84-19683
Software Acquisition Resource Expenditure (SARE) data collection methodology
[AD-A137084] 10 p1564 N84-20247
Voice preprocessing system incorporating a real-time spectrum analyzer with programmable switched-capacitor filters
[AD-A137999] 12 p1805 N84-21769
Local network wideband interconnection alternatives
[AD-A138604] 13 p1982 N84-22868
Software Cost Estimation Workshop report
[AD-A139840] 15 p2392 N84-25354
Preliminary program manager's guide to Ada
[AD-A140347] 16 p2565 N84-26457
A study of the feasibility of duplicating JAMPS applications software in the Ada programming language
[AD-A140884] 17 p2753 N84-27477
Environments for evaluating performance of C3I (Command, Control, Communications, and Intelligence) systems
[AD-P003237] 18 p2902 N84-28404
Connector and cable assembly specifications for the SHAPE fiber optic network
[AD-A141280] 18 p2932 N84-28593
User-system interface design in system acquisition
[AD-A140956] 18 p2943 N84-28664
Range corrections for airborne radar - A joint STARS study
[AD-A142363] 20 p3174 N84-30154
Software support for a video disc based terrain map display system
[AD-A143700] 23 p3834 N84-34324
Large screen display technology survey
[AD-A144222] 24 p3902 N84-34711

MITRE CORP., MCLEAN, VA.
Performance of the collision avoidance logic during preliminary flight tests of the traffic alert and collision avoidance system (TCAS 3)
[MTR-82W238] 02 p0176 N84-11158
Defense data network subscriber interface guide
[AD-A132877] 05 p0670 N84-14406
A concept for reducing oceanic separation minima through the use of a TCAS-derived CDTI
[NASA-CR-172258] 07 p0952 N84-16177
System safety study of minimum TCAS II (Traffic Alert and Collision Avoidance System)
[AD-A138674] 13 p1929 N84-22548
Software for explicitly probabilistic mathematics
[AD-P002881] 13 p1978 N84-22842
Guidelines for developing NASA (National Aeronautics and Space Administration) ADP security risk management plans
[NASA-CR-173564] 16 p2542 N84-26317
Guidelines for development of NASA (National Aeronautics and Space Administration) computer security training programs
[NASA-CR-173562] 16 p2542 N84-26318
Assessment of techniques for evaluating computer systems for Federal Agency procurements
[PB84-176494] 17 p2756 N84-27496
Aircraft traffic density in the Los Angeles basin
[AD-A141435] 19 p2961 N84-28768
Guidelines for contingency planning NASA (National Aeronautics and Space Administration) ADP security risk reduction decision studies
[PB84-189836] 20 p3268 N84-30737
Moebius r-2R lens
[AD-P003511] 21 p3385 N84-31479
Test and evaluation of the Satellite-Aided Maritime Search and Rescue System (SAMSARS). Volume 1: System description and test results
[PB84-184621] 22 p3540 N84-32412
Test and evaluation of the Satellite-Aided Maritime Search and Rescue System (SAMSARS). Volume 2: Hardware circuitry and software programs
[PB84-184639] 22 p3540 N84-32413
The Gain-Spread-Excitation theorem
[AD-A144447] 24 p3951 N84-35020

MITSUBISHI ELECTRIC MFG. CO. LTD., AMAGASAKI (JAPAN).
Degradation of thermal shield materials in the space radiation environment 10 p1446 N84-19448

MITSUBISHI HEAVY-INDUSTRIES LTD., TOKYO (JAPAN).
Study on creep-fatigue life prediction using simple high temperature low cycle fatigue testing machines
[PB83-224121] 01 p0086 N84-10559

MIYAZAKI UNIV. (JAPAN).
Remarks on thermal analyses of thin 4He films in superfluid heat pipe 20 p3169 N84-30121

MMR TECHNOLOGIES, INC., MOUNTAIN VIEW, CALIF.
Low cost microminiature refrigerators for large unit volume applications 06 p0822 N84-15356

MOBIL RESEARCH AND DEVELOPMENT CORP., PAULSBORO, N.J.
Two-stage process for conversion of synthesis gas to high quality transportation fuels
[DE84-009824] 20 p3166 N84-30108

MOBIL TYCO SOLAR ENERGY CORP., WALTHAM, MASS.
Overview of characterization techniques for high speed crystal growth 18 p2936 N84-28619
Experimental aspects of the study of stress generating mechanisms in silicon sheet growth 18 p2938 N84-28635
Defects in high speed growth of EFG silicon ribbon 18 p2939 N84-28642
Stress studies in EFG
[NASA-CR-173960] 23 p3787 N84-34018

MODAR, INC., NATICK, MASS.
Development of a prototype experiment for treating CELSS and PCELSS wastes to produce nutrients for plant growth
[NASA-CR-173167] 09 p1277 N84-18341
Evaluation of organic carbon analyzers for space application
[NASA-CR-171755] 09 p1317 N84-18607

MODERN ANALYSIS, INC., RIDGEWOOD, N. J.
Study of noise transmission through double wall aircraft windows
[NASA-CR-172182] 02 p0287 N84-11884

MOLI ENERGY LTD., BURNABY (BRITISH COLUMBIA).
Performance and safety characteristics of lithium-molybdenum disulfide cells 23 p3736 N84-33672

MONRONEY (MIKE) AERONAUTICAL CENTER, OKLAHOMA CITY, OKLA.
Uniform mass distribution properties and body size appropriate for the 50 percentile male aircrewmember, 1980 - 1990
[AD-A142946] 21 p3461 N84-31948

MONSANTO ELECTRONIC MATERIALS CO., ST. PETERS, MO.
Overview of bulk silicon crystal growth 18 p2935 N84-28617

MONSANTO RESEARCH CORP., DAYTON, OHIO.
High temperature (1645 deg C, 3000 deg F) surface ignition test apparatus for fluids
[AD-A132658] 05 p0649 N84-14268
Turbine engine lubricant reclamation
[AD-A135926] 09 p1288 N84-18410
Properties of aircraft fuels and related materials
[AD-A141068] 19 p3001 N84-29019
Passive sampling device for ambient air and personal monitoring
[PB84-210046] 22 p3599 N84-32798

MONSANTO RESEARCH CORP., MIAMISBURG, OHIO.
Calorimeter operating system implemented on a Z-80 microcomputer in read only memory
[DE83-016647] 03 p0419 N84-12734
Component temperature versus laser-welding parameters
[DE84-000362] 04 p0541 N84-13559
Eddy current thickness gauge for reel-to-reel tape processes
[DE84-004050] 08 p1162 N84-17567
Atomic absorption spectrophotometric methods for the determination of phosphorous and silicon in steel
[DE84-002826] 09 p1286 N84-18395
Energetic materials separations and specific polymorph preparations via thermal gradient sublimation
[DE84-002830] 09 p1290 N84-18422

MONTANA STATE COLL., BOZEMAN.
Exploring the interaction of the Vroom/Yetton model and leadership style (LPC) (Least Preferred Coworker) as it predicts performance
[AD-P003247] 18 p2904 N84-28414
Subordinate perceptions of contingent leaders: Do followers accept our theories?
[AD-P003248] 18 p2904 N84-28415

MONTANA STATE UNIV., BOZEMAN.
Microbial fouling and its effect on power generation
[AD-A131084] 01 p0112 N84-10726
The hydrodynamic stability of a supersonic laminar boundary layer over a rough wall
[AD-A137056] 10 p1422 N84-19299
Quantum structure of adsorbates on semiconductor surfaces
[AD-A143465] 22 p3663 N84-33223

MONTANA WATER RESOURCES RESEARCH CENTER, BOZEMAN.
Meteorological and climatological approach in determining snowpack accumulation at snow course sites in a Montana watershed
[PB83-226852] 01 p0110 N84-10714

MONTREAL UNIV. (QUEBEC).
Completeness for uniformly delayed circuits
[AD-P002325] 14 p2189 N84-24116

MOREHOUSE COLL., ATLANTA, GA.
On the conversion of LINPACK to Ada
[AD-P002941] 14 p2197 N84-24181
MORGANTOWN TECHNOLOGY CENTER, W. VA.
An evaluation of the Malvern optical particle monitor
[DE83-017039] 23 p3751 N84-33775
MORROW (CHARLES T.), ENCINITAS, CALIF.
Shock spectral analysis by personal computer, using the IFT algorithm 10 p1509 N84-19875
MORTON THIOKOL, BRIGHAM CITY, UTAH.
Acoustic and photoelectric burnout detection of T-burner grains 13 p1946 N84-22650
Combustion of high-aluminum-content propellants 13 p1947 N84-22661
Space aging of solid rocket materials (P0005) 15 p2275 N84-24659
Nitrate ester polyether glycol prepolymers 20 p3142 N84-29947
Development and fabrication of a graphite/epoxy motor case for air launch missile applications 20 p3142 N84-29948
Characterization of filament wound Kevlar and glass composites for rocket motor applications 20 p3142 N84-29949
High energy binders
[AD-A142347] 20 p3166 N84-30105
MOSCOW STEEL AND ALLOYS INST. (USSR).
High temperature solid oxide electrolytes for research in metallurgical processes and steelmaking 11 p1740 N84-21352
MOTOREN- UND TURBINEN-UNION MUENCHEN G.M.B.H. (WEST GERMANY).
Advanced combustor liner cooling concepts 15 p2292 N84-24756
Development of high temperature ceramic parts for vehicular gas turbines
[BMFT-FB-T-84-006] 15 p2301 N84-24812
Testing of turboshaft engines 16 p2453 N84-25729
Increase of efficiency in cooled high temperature turbines
[BMFT-FB-W-84-019] 21 p3343 N84-31212
Measures for materials conservation in aero-engine construction 23 p3702 N84-33468
MOTOROLA, INC., CARLISLE, PA.
Manufacturing technology for high quality swept-culture growth quartz
[AD-A133500] 06 p0923 N84-15998
MOTOROLA, INC., PHOENIX, ARIZ.
Qualification testing of solar photovoltaic powered refrigerator freezers for medical use in remote geographic locations
[NASA-CR-168181] 15 p2361 N84-25162
MOUND LAB., MIAMISBURG, OHIO.
Characterization of glass-filled engineering thermoplastic composites
[DE84-000361] 04 p0492 N84-13231
Diffusion properties and phase transitions of the metalic glass a-Zr2-PdH-x
[DE83-016626] 05 p0660 N84-14341
Quantitative determination of hydrogen by pulsed nuclear magnetic resonance spectroscopy
[DE84-002831] 06 p0802 N84-15227
Dynamic thermography of thermite chemical heat sources
[DE84-002837] 07 p0971 N84-16291
PETN homolog analysis and large-scale preparation of pure PETN homologs by High-Performance Liquid Chromatography (HPLC)
[DE84-002169] 07 p0972 N84-16300
Surface compatibility studies of potassium perchlorate reaction with pyrotechnic fuels
[DE84-002829] 08 p1140 N84-17412
Potassium perchlorate reaction with pyrotechnic fuels
[DE84-002840] 08 p1140 N84-17413
Determination of Cr(6) and Cr(3) by ICP
[DE83-016627] 10 p1457 N84-19515
MA-2026 environmental monitoring system
[DE84-006222] 11 p1676 N84-20938
Ultrasonic inspection of MC2893 strength member assembly weld
[DE84-007084] 12 p1824 N84-21892
Periods found in heat measurements obtained by calorimetry
[DE84-007446] 14 p2220 N84-24321
Milliwatt generator heat source
[DE84-008207] 15 p2407 N84-25447
Interface formation in physically deposited films
[MLM-3089] 16 p2470 N84-25827
Determination of the optimum crystallization conditions of a high thermal expansion glass-ceramic
[DE84-009734] 19 p3000 N84-29014
Batch and continuous recrystallization of secondary explosives
[DE84-009735] 19 p3002 N84-29024
Thermal shock: High temperature high energy rate testing
[DE84-014147] 22 p3612 N84-32886
Characterization of polyetheretherketone and other engineering thermoplastics
[DE84-010668] 23 p3725 N84-33603
Incorporation of an Nd:YAG laser engraver into Mound's machining operations
[DE84-014339] 23 p3755 N84-33801
MOUNT WILSON OBSERVATORY, PASADENA, CALIF.
Limb darkening variations 17 p2779 N84-27645
A next generation microdensitometer? 18 p2842 N84-28044
MRJ, INC., FAIRFAX, VA.
Motorized thermal control shade 10 p1444 N84-19436
MUELLER ASSOCIATES, INC., BALTIMORE, MD.
Energy technology characterizations handbook: Environmental pollution and control factors, third edition
[DOE/EP-0093] 16 p2511 N84-26117
Development of solar materials and components 16 p2518 N84-26162
MUENSTER UNIV. (WEST GERMANY).
Secondary ion emission from adsorbate layers on polycrystalline Ni 06 p0815 N84-15306
Nonlinear equation systems for parabolic differential equations and differential equation systems 16 p2540 N84-26305
Experiences with a PDS 2020 GM 18 p2840 N84-28028
MUHR UND BENDER, ATTENDORN (WEST GERMANY).
Optimization of production conditions and material characteristics of tubular stabilizer bars
[BMFT-FB-T-83-177] 07 p0986 N84-16385
MUNTERS ROTAIRE LTD., HUNTINGDON (ENGLAND).
Humidity control: The pattern for change 11 p1639 N84-20718

N

NAGOYA UNIV. (JAPAN).
X-ray spectroscopic study of high-temperature plasmas by curved crystal spectrometer
[IPPJ-639] 01 p0148 N84-10975
Magnetohydrodynamic equilibrium and stability of spheromak plasma in flux conserver
[IPPJ-642] 03 p0443 N84-12909
A steady-state axisymmetric toroidal system
[IPPJ-643] 03 p0443 N84-12910
Atomic processes in hot dense plasma
[IPPJ-AM-31] 03 p0443 N84-12911
Cross sections for charge transfers of highly ionized ions in hydrogen atoms
[IPPJ-AM-30] 03 p0443 N84-12912
Bibliography on atomic processes in hot dense plasmas
[IPPJ-AM-29] 03 p0443 N84-12913
Electron capture and loss cross sections for collisions between heavy ions and hydrogen molecules, revised
[IPPJ-AM-28] 03 p0444 N84-12914
Considerations of the three-wave interactions
[IPPJ-641] 03 p0444 N84-12915
Rotating and propagating LIB stabilized by self-induced magnetic field
[IPPJ-640] 03 p0444 N84-12916
Dissipation of magnetic energy during disruptive current termination
[IPPJ-644] 06 p0919 N84-15973
Extraction of volume produced H(-) or D(-) ions from a sheet plasma I
[IPPJ-645] 06 p0919 N84-15974
Non-stochastic acceleration of protons in the magnetic neutral sheet
[IPPJ-646] 06 p0919 N84-15975
Rotational temperature measurements in free jet expansions of N2 using the electron beam fluorescence technique 07 p0984 N84-16376
Quasi-doublet-lattice method for oscillating thin airfoils in subsonic flow 07 p0985 N84-16378
Energy dependence of the yields of ion-induced sputtering of monatomic solids
[IPPJ-AM-32] 07 p1076 N84-16992
Neoclassical transport associated with collisionless detrapping in a bumpy torus
[IPPJ-651] 10 p1580 N84-20350
Effect of lower hybrid wave heating on alpha-particle dynamics
[IPPJ-649] 10 p1580 N84-20351
ICRF heating experiments on JIPP T-II
[IPPJ-650] 10 p1580 N84-20352
Transport studies of ECH heated bumpy torus plasmas
[IPPJ-652] 10 p1580 N84-20353
Dynamically accelerated superthermal electrons in microwave plasma interaction
[IPPJ-648] 10 p1580 N84-20354
Experimental studies on plasma confinement in Nagoya bumpy torus
[IPPJ-655] 10 p1580 N84-20355
Buildup and sustainment of 10(13) and cm(-3) plasma by ICRF in RFC-XX
[IPPJ-653] 10 p1580 N84-20356
Enhancement of the excitation and deexcitation rate coefficient of ions in dense plasmas: The role of autoionizing states
[IPPJ-661] 11 p1733 N84-21302
Annual review, April 1982 - March 1983
[ISSN-0547-1567] 11 p1733 N84-21303
Conceptual design of the RFC reactor
[IPPJ-659] 11 p1733 N84-21304
Ion Bernstein wave heating experiment on JIPPT-II-U device
[IPPJ-662] 11 p1734 N84-21305
Compact toroids with rotating halo-the spintor
[IPPJ-658] 11 p1734 N84-21306
Transport of a multiple-ion species plasma in the collisionless regime in a bumpy torus
[IPPJ-657] 11 p1734 N84-21307
The kinetic equation in an imperfect ionized plasma
[IPPJ-656] 11 p1734 N84-21308
Bounce resonance heating and radial transport of electrons in magnetic mirrors
[IPPJ-654] 11 p1734 N84-21309
Proceedings on Symposium on Atomic Collision Data for Diagnostics and Modelling of Fusion Plasmas
[IPPJ-AM-33] 11 p1734 N84-21310
Impurity transport in Tokamaks 11 p1734 N84-21312
Emission properties of highly ionized iron spectra for spectroscopic plasma diagnositcs 11 p1735 N84-21314
Evaluation of excitation cross sections by plasma spectroscopy 11 p1735 N84-21315
Atomic collision data for beam probe diagnostics of magnetically confined high temperature plasmas 11 p1735 N84-21318
Atomic and molecular processes in discharge cleaning plasmas 11 p1736 N84-21322
A comment on atomic processes relevant to alpha particle diagnostics 11 p1736 N84-21323
Wavelength measurement of X-ray lines from He-like ions 11 p1736 N84-21326
Summary of the Symposium on Atomic Collision Data for Diagnostics and Modelling of Fusion Plasma 11 p1736 N84-21328
Heavy ion fusion reactor HIBLIC-1. Conceptual design of heavy ion fusion reactor
[IPPJ-663] 12 p1909 N84-22436
A classical picture of anomalous effects in a Tokamak
[IPPJ-664] 13 p2044 N84-23263
External excitation of ion cyclotron drift waves in a two-ion species plasma
[IPPJ-665] 13 p2044 N84-23264
Moving ring reactor KARIN-I
[IPPJ-660] 13 p2044 N84-23265
P-valued input, Q-valued output threshold logic and its application to the synthesis of P-valued logical networks
[AD-P002336] 14 p2190 N84-24127
The deficiency of entire functions with Fejer gaps 14 p2210 N84-24267
Dependence of the backscattering coefficients of light ions upon angle of incidence
[IPPJ-AM-34] 15 p2409 N84-25459
Extraction of volume produced H(-) or D(-) ions from a sheet plasma 2
[IPPJ-666] 15 p2409 N84-25460
Start-up and quasi-stationary drive of plasma current by lower hybrid wave in the JPII T-IIU Tokamak
[IPPJ-667] 15 p2409 N84-25461
Heavy ion beam probe for the study of plasma confinement in Nagoya bumpy torus
[IPPJ-669] 15 p2409 N84-25462
Ablation accelerator (ABLAC) as driver for impact fusion
[IPPJ-668] 15 p2410 N84-25463
Introduction to the theory of fluid and magnetofluid turbulence
[IPPJ-670] 17 p2766 N84-27565
Steady-state solutions of propagating LIB with rotating motion
[IPPJ-672] 19 p3106 N84-29734
The dc acceleration of charged particles by an electrostatic wave propagating obliquely to a magnetic field vector B sub O
[IPPJ-671] 19 p3106 N84-29735
The effect of trapped electrons on the beam-induced current 2
[IPPJ-673] 19 p3106 N84-29736

Numerical analysis of the burst in the turbulent boundary layer, based on the three-dimensional oriax model
20 p3168 N84-30116
Kolmogorov-style argument for the decaying homogeneous MHD turbulence
[IPPJ-677] 20 p3301 N84-30963
The influence of the relativistic character of the electron HF motion on the non-linear wave dynamics in plasmas
[IPPJ-676] 20 p3301 N84-30964
Finite-element-analysis of fields radiated from ICRF antenna
[IPPJ-675] 20 p3301 N84-30965
Formation of spatial Alfven resonance and global modes in an inhomogeneous plasma
[IPPJ-674] 20 p3302 N84-30966
Electron capture cross sections in high energy He2+ + neutral Li collisions
[IPPJ-679] 21 p3500 N84-32182
Proceedings of Collaborating Research Meeting on Particle-Beam Applications to Fusion Research
[IPPJ-678] 21 p3500 N84-32184
Turbulent diffusion for the radial twist map
[IPPJ-685] 23 p3826 N84-34267
Catastrophe in plasma focus evolution
[IPPJ-686] 23 p3826 N84-34268
Numerical analysis on the ion species ratios in a steady state hydrogen plasma
[IPPJ-687] 23 p3826 N84-34269
Alpha-particle simulation using NBI beam and ICRF wave
[IPPJ-688] 23 p3827 N84-34270
Impurity origin during ICRF heating in JIPP T-IIU Tokamak
[IPPJ-682] 23 p3827 N84-34271
Visible-light imaging MHD studies of the edge plasma in the JIPP-T-IIU Tokamak
[IPPJ-683] 23 p3827 N84-34272
Abnormal energy deposition on the wall through plasma disruptions
[IPPJ-684] 23 p3827 N84-34273
Effects of neutrals on particle transport of a plasma
[IPPJ-681] 23 p3827 N84-34274
Plasma heating, confinement and stabilization experiments in axisymmetric mirror-cusp device
[IPPJ-690] 24 p3965 N84-35105

NANCY UNIV. (FRANCE).
Low temperature structure and properties of graphite lamellar compounds
[AD-A140875] 17 p2768 N84-27579
Fatou theorem for the proper functions of invariant potential operators by a group of Cartan displacements
22 p3635 N84-33037

NAPLES UNIV. (ITALY).
In the labyrinth of many valued logics
[AD-P002331] 14 p2190 N84-24122
Characterization of heavy oil sprays in isothermal and burning conditions with laser light scattering measurements in the sideward region
15 p2294 N84-24766
Aerodynamic instability of cable-stayed bridges: Theoretical experimental study of stall flutter
18 p2789 N84-27700
Preliminary experimental and theoretical results on cantilever vibration absorbers applied for aircraft cabin vibration
[SPER-8390] 18 p2794 N84-27730
Theoretical and experimental results of dynamic behavior of periodically stiffened cylindrical shell
18 p2794 N84-27731
On the stick-free longitudinal dynamic stability of a general aviation aircraft equipped with an all-movable horizontal tail
18 p2797 N84-27748
Relativistic particle dynamics: Lagrangian proof of the no-interaction theorem
[DE84-009147] 19 p3102 N84-29707

NARCO SCIENTIFIC, HOUSTON, TEX.
Development of engineering prototype of Life Support Module (LSM)
[NASA-CR-171806] 22 p3633 N84-33023

NATAL UNIV., DURBAN (SOUTH AFRICA).
Magnetospheric and atmospheric physics at the University of Natal
09 p1344 N84-18778
Laboratory measurements of subsynchronous resonance
[RL-8845] 11 p1667 N84-20877

NATAL UNIV., PIETERMARITZBURG (SOUTH AFRICA).
Etching of defects on crystal surfaces
06 p0814 N84-15300

NATIONAL ACADEMY OF ENGINEERING, WASHINGTON, D. C.
Strengthening the government-university partnership in science
[PB83-230670] 02 p0302 N84-11979

NATIONAL ACADEMY OF SCIENCES - NATIONAL RESEARCH COUNCIL, WASHINGTON, D. C.
Snow and ice research: An assessment
[PB83-231662] 01 p0101 N84-10656
Challenges to astronomy and astrophysics: Working documents of the Astronomy Survey Committee
[PB83-203984] 01 p0165 N84-11080
Polymers of phosphonylmethyl-2,4- and -2,6-diamino benzenes and the like
[NASA-CASE-ARC-11506-1] 03 p0356 N84-12313
Separated isotopes: Vital tools for science and medicine
[DE83-011646] 04 p0603 N84-13981
Elastomer-modified phosphorus-containing imide resins
[NASA-CASE-ARC-11400-1] 05 p0657 N84-14322
Energy use: The human dimension
[DE84-001405] 05 p0714 N84-14676
Effective use of earthquake data
[AD-A134077] 06 p0878 N84-15712
Ocean research for understanding climatic variations: Priorities and goals for the 1980's
[PB84-105816] 08 p1192 N84-17768
Evaluation of the FEMA (Federal Emergency Management Agency) model for estimating potential coastal flooding from hurricanes and its application to Lee County, Florida
[PB84-105832] 08 p1192 N84-17769
Producer gas: Another fuel for motor transport
[PB84-129774] 09 p1291 N84-18427
Alcohol fuels: Options for developing countries
[PB84-129808] 09 p1291 N84-18428
Earth science investigations in the United States Antarctic Research Program (USARP)
[PB84-119460] 09 p1336 N84-18722
El Nino and the southern oscillation: A scientific plan
[PB84-129733] 09 p1351 N84-18825
Arctic Terrestrial Environmental Research Programs of the Office of Energy Research, Department of Energy: Evaluations and recommendations. Appendix B: Components of an Arctic Terrestrial Environmental Research Program
[PB84-129766] 11 p1672 N84-20913
Evaluative report on the National Engineering Laboratory, National Bureau of Standards, fiscal year 1983
[PB84-129873] 11 p1747 N84-21398
Changing climate
[PB84-148576] 12 p1862 N84-22135
Current trends in atomic spectroscopy
[PB84-162957] 13 p1959 N84-22732
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-3] 13 p1961 N84-22745
Priorities for detailed quality assessments of the National Defense Stockpile nonfuel materials
[NMAB-403] 13 p2006 N84-23011
Research briefings for the Office of Science and Technology Policy, the National Science Foundation and selected federal departments and agencies, 1983
[PB84-161322] 14 p2124 N84-23732
Providing R and D (Research and Development) test fuels from alternate energy sources: An assessment of options
[NASA-CR-173427] 14 p2133 N84-23783
Toward an International Geosphere-Biosphere Program: A Study of Global Change
[PB84-161769] 14 p2176 N84-24038
Computational modeling and mathematics applied to the physical sciences
[DE84-008252] 14 p2214 N84-24301
Current trends in atomic spectroscopy. Report on a workshop held in Tucson, Arizona, October 24-26, 1982
[AD-A139288] 14 p2222 N84-24333
Activities of the Aeronautics and Space Engineering Board Commission on Engineering and Technical Systems
[NASA-CR-173529] 15 p2265 N84-24600
Proceedings of a workshop: Multidisciplinary Use of the Very Long Baseline Array
[NASA-CR-173541] 15 p2338 N84-25034
Advanced nuclear systems for portable power in space
[PB84-148568] 15 p2365 N84-25191
Acid deposition: Atmospheric processes in eastern North America, a review of current scientific understanding
[PB84-173095] 16 p2526 N84-26220
Causes and effects of changes in stratospheric ozone: Update 1983
[PB84-176072] 17 p2729 N84-27368
Role of theory in space science
[NASA-CR-173444] 18 p2798 N84-27757
Method for the preparation of thin-skinned asymmetric reverse osmosis membranes and products thereof
[NASA-CASE-ARC-11359-1] 18 p2894 N84-28361
Guidelines for health surveillance in the NASA (National Aeronautics and Space Administration) workplace
[NASA-CR-173677] 18 p2899 N84-28390
Debris Flows, Landslides, and Floods in the San Francisco Bay Region, January 1982: Overview and summary of a conference
[PB84-194737] 20 p3243 N84-30590
Review of NASA's (National Aeronautics and Space Administration) Numerical Aerodynamic Simulation Program
[NASA-CR-173842] 20 p3276 N84-30799
Practical applications of a space station
[NASA-CR-173672] 21 p3353 N84-31270
Producer gas: Another fuel for motor transport
[DE84-901066] 21 p3375 N84-31416
Polar research board report, 1983 and future plans
[PB84-194315] 21 p3433 N84-31779
Seismological studies of the continental lithosphere
[PB84-194752] 21 p3446 N84-31862
Japan Sea central region tsunami of 26 May 1983. A reconnaisance report
[PB84-194703] 21 p3451 N84-31901
An ocean climate research strategy
[PB84-194828] 21 p3452 N84-31902
An evaluating report on the Institute for Computer Sciences and Technology, National Bureau of Standards, fiscal year 1983
[PB84-194802] 21 p3516 N84-32271
Global Observations and Understanding of the General Circulation of the Oceans
[NASA-CR-173905] 22 p3627 N84-32986
Workshop on Systems Analysis
[PB84-194661] 22 p3650 N84-33138
Solar-terrestrial data access distribution and archiving
[NASA-CR-173906] 22 p3675 N84-33295
Computational modeling and mathematics applied to the physical sciences
[PB84-180512] 23 p3819 N84-34222
Evaluation of methodologies for estimating vulnerability to electromagnetic pulse effects
[AD-A144408] 24 p3894 N84-34663

NATIONAL AERONAUTIC ASSOCIATION, WASHINGTON, D. C.
World and United States aviation and space records, as of June 1, 1983
01 p0001 N84-10009

NATIONAL AERONAUTICAL ESTABLISHMENT, OTTAWA (ONTARIO).
Aeroelastic response of an aircraft wing to random loads
[AD-A130476] 01 p0004 N84-10028
A new method of estimating wind tunnel wall interference in the unsteady two-dimensional flow,
[AD-A130475] 01 p0004 N84-10029
Viscous three-dimensional flow separations from high-wing propeller-turbine nacelle models
03 p0323 N84-12115
Evaluation of the effects of lateral and longitudinal aperiodic modes on helicopter instrument flight handling qualities
[AD-A134116] 05 p0629 N84-14135
The use of flight recorders in the investigation of aircraft mishaps
06 p0775 N84-15078
Capabilities of the NRCC/NAE flight impact simulator facility
[AD-A130849] 06 p0784 N84-15136
Unsteady pressure and force measurements associated with transonic buffeting of a two-dimensional supercritical airfoil
[AD-A133139] 06 p0844 N84-15503
Hygrothermal effects in continuous fibre reinforced composites. Part 2: Physical properties
[AD-A135766] 09 p1276 N84-18331
Hygrothermal effects in continuous fibre reinforced composites. Part 3: Mechanical properties 1 - static tests
[AD-A135767] 09 p1276 N84-18332
Hygrothermal effects in continuous fibre reinforced composites. Part 4: Mechanical properties 2 - fatigue and time-dependent properties
[AD-A135768] 09 p1276 N84-18333
Flight tests of instrumentation for airborne carbon dioxide flux measurement
[AD-A135856] 09 p1342 N84-18767
Implementation of Nisitani's body force method for the solution of notch problems
[AD-A137690] 11 p1668 N84-20881
Comparison of the stress concentration factor of a hole near a circular edge notch with an engineering estimate
[AD-A137691] 11 p1668 N84-20882
Dual adsorber-capillary column system for gas chromatographic analysis of air samples
[AD-A138305] 12 p1792 N84-21689
Prediction of resonance frequencies for ventilated wall wind tunnels
14 p2097 N84-23580

Recent developments and future directions in dynamic stability research at NAE, Ottawa
14 p2097 N84-23582
Hygrothermal effects in continuous fibre reinforced composites. Part 1: Thermal and moisture diffusion in composite materials
[AD-A128228] 18 p2810 N84-27837
Theoretical and measured airflow about the Twin Otter wing
[AD-A141974] 20 p3126 N84-29855
Transonic equivalence rule with lift
[AD-A143591] 23 p3690 N84-33389
Trace elements and residual elements in superalloys
23 p3705 N84-33487

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, WASHINGTON, D. C.
Aeronautical Engineering: A continuing bibliography with indexes (supplement 165)
[NASA-SP-7037(165)] 01 p0001 N84-10008
Aeronautics Research and Technology Program and specific objectives, fiscal year 1982
[NASA-TM-85474] 01 p0002 N84-10011
Spacelab: An international short-stay orbiting laboratory
[NASA-EP-165] 01 p0027 N84-10172
Investigations into the burning-out of organic substances in the ceramic body
[NASA-TM-77065] 01 p0049 N84-10315
Method of manufacturing ceramic shaped articles
[NASA-TM-77242] 01 p0057 N84-10370
Flexible composite film for printed circuit board
[NASA-TM-77109] 01 p0069 N84-10452
The NASA Geodynamics Program: An overview
[NASA-TP-2147] 01 p0104 N84-10675
An overview of artificial intelligence and robotics. Volume 1: Artificial intelligence. Part B: Applications
[NASA-TM-85836] 01 p0128 N84-10834
Aeronautics and space report of the President, 1982 activities
[NASA-TM-85454] 01 p0166 N84-11093
Energy: A continuing bibliography with indexes, issue 38
[NASA-SP-7043(38)] 02 p0241 N84-11578
Bone and calcium alterations during spaceflight
02 p0263 N84-11729
Programmatic comments 02 p0263 N84-11732
Great prospects for fiber optics sensors
[NASA-TM-77357] 02 p0293 N84-11922
Aeronautical Engineering: A continuing bibliography with indexes (supplement 166)
[NASA-SP-7037(166)] 03 p0311 N84-12027
STS-9 Spacelab 1 press kit
[P83-10209] 03 p0341 N84-12214
Containerless electromagnetic levitation melting of Cu-Fe and Ag-Ni alloys
[NASA-TM-82553] 03 p0352 N84-12288
Aerospace Medicine and Biology: A continuing bibliography with indexes (supplement 250)
[NASA-SP-7011(250)] 03 p0415 N84-12712
NASA patent abstracts bibliography. Section 1: Abstracts. A continuing bibliography
[NASA-SP-7039(23)-SECT-1] 03 p0458 N84-13017
NASA Patent Abstracts Bibliography. Section 2: Indexes. A continuing bibliography (supplement 23)
[NASA-SP-7039(23)-SECT-2] 03 p0458 N84-13018
National Aeronautics and Space Act of 1958, as amended and related legislation
[GPO-24-491] 03 p0460 N84-13032
Spinoff, 1983
[NASA-TM-85475] 03 p0461 N84-13033
NASA Facts: IRAS - Mapping the Infrared Sky
[NASA-FACTS-139] 03 p0461 N84-13036
Aeronautical Engineering, a continuing bibliography with indexes
[NASA-SP-7037(168)] 04 p0477 N84-13136
Aeronautical Engineering: A continuing bibliography with indexes (supplement 167)
[NASA-SP-7037(167)] 04 p0477 N84-13137
Technology for large space systems: A bibliography with indexes
[NASA-SP-7046(09)] 04 p0488 N84-13204
NASA space biology accomplishments, 1982
[NASA-TM-86244] 04 p0488 N84-13206
Propagation effects on satellite systems at frequencies below 10 GHz, a handbook for satellite systems design, 1st edition
[NASA-RP-1108] 04 p0517 N84-13397
Aerospace Medicine and Biology: A continuing bibliography with indexes (supplement 251)
[NASA-SP-7011(251)] 04 p0572 N84-13767
Laminarization of a boundary layer in a supersonic nozzle by cooling of the surface
[NASA-TM-77341] 05 p0626 N84-14119
Nutation damper for the AMPTE-IRM satellite: Final Report
[NASA-TM-77330] 05 p0643 N84-14228
Report on new calculations of the magnetic potential of the Earth
[NASA-TM-77329] 05 p0702 N84-14608
An overview of artificial intelligence and robotics. Volume 1: Artificial intelligence. Part C: Basic AI topics
[NASA-TM-85839] 05 p0732 N84-14805
Etching of moldavities under natural conditions
[NASA-TM-77334] 05 p0764 N84-15014
Wind tunnel investigations of glider fuselages with different waistings and wing arrangements
06 p0781 N84-15116
Three-dimensional effects on airfoils
[NASA-TM-77025] 06 p0781 N84-15118
Helicopter blade tips
[NASA-TM-77370] 06 p0782 N84-15119
Flow mechanism and experimental investigation of a rotating stall in transonic compressors
[NASA-TM-77373] 06 p0782 N84-15122
New investigation of short wings with lateral jets
[NASA-TM-77347] 06 p0782 N84-15124
Recognizing defects in carbon-fiber reinforced plastics
[NASA-TM-76947] 06 p0786 N84-15143
Fuel economy in aviation
[NASA-SP-462] 06 p0786 N84-15144
Trichite growth during oxidation of titanium and TA6V4 alloy by water vapor at high temperatures
[NASA-TM-76974] 06 p0805 N84-15248
Screening and classification of ceramic powders
[NASA-TM-77092] 06 p0809 N84-15270
Recording and reproduction of microwave holograms using a scanning procedure and their subsequent optical processing
[NASA-TM-77349] 06 p0846 N84-15519
Design procedures for compressor blades
[NASA-TM-77085] 06 p0852 N84-15552
Experimental determination of gap flow-conditioned forces at turbine stages and their effect on the running stability of simple rotors
[NASA-TM-77293] 06 p0852 N84-15553
Nonuniformity of the Earth's rotation and the motion of the poles
[NASA-TM-77337] 06 p0877 N84-15709
Aerospace medicine and biology: A continuing bibliography with indexes (supplement 252)
[NASA-SP-7011(252)] 06 p0886 N84-15783
A study on airborne integrated display system and human information processing
[NASA-TM-77338] 06 p0891 N84-15789
Thermal and electrical interaction of tantalum with a low temperature chemically active plasma flow
[NASA-TM-77374] 06 p0920 N84-15980
Computations of the current profile influence on tearing instability
[NASA-TM-77285] 06 p0920 N84-15981
A guide to research in NASA history, 7th edition
[NASA-TM-85486] 06 p0935 N84-16076
JBFA - buoyant flight
[NASA-TM-76815] 07 p0946 N84-16136
The drag of magnetically suspended wind-tunnel models with nose-cones of various shapes
[NASA-TM-77325] 07 p0946 N84-16137
Solar-cell airplane Solair 1
[NASA-TM-77061] 07 p0950 N84-16164
SUN WORSHIPER: McCready's Solar Challenger flies over the English Channel
[NASA-TM-77327] 07 p0950 N84-16166
Transonic cryogenic test section for the Goettingen tube facility
[NASA-TM-77050] 07 p0959 N84-16219
Experimental study of fluid deicing system in the NASA Icing Research Tunnel
[NASA-TM-77097] 07 p0960 N84-16220
Visiting spacemen
[NASA-TM-77294] 07 p0960 N84-16226
Gravitational orientation of the orbital complex, Salyut-6--Soyuz
[NASA-TM-77299] 07 p0961 N84-16228
41-B tenth Space Shuttle mission
[NASA-NEWS-RELEASE-84-4] 07 p0963 N84-16241
Long life communication satellites: Electric power supply during the eclipse period
[NASA-TM-77351] 07 p0965 N84-16253
A simple approach to determination of stiffness characteristics of unidirectional composites
[NASA-TM-77066] 07 p0967 N84-16263
Influence of deflocculant on the isoelectric point of refractory powders: Considerations on the action of deflocculant
[NASA-TM-77364] 07 p0969 N84-16277
Some aspects of mathematical and chemical modeling of complex chemical processes
[NASA-TM-77055] 07 p0969 N84-16279
Dispersion alloys TEXUS-Experiments: TEXUS-01 B TEXUS 7, TEM-01 B
[NASA-TM-77531] 07 p0973 N84-16308
Structure, preparation and properties of refractory compounds and systems (hard materials and hard metals)
[NASA-TM-77076] 07 p0974 N84-16309
A contribution to the manufacture and characteristics of steel-wire-reinforced aluminum
[NASA-TM-76977] 07 p0974 N84-16310
Silicon nitride: A ceramic material with outstanding resistance to thermal shock and corrosion
[NASA-TM-77067] 07 p0978 N84-16336
The US space station: Potential base for a spaceborne microwave facility 07 p0991 N84-16420
Shock conditions and shock wave structures in a steady flow in a dissipative fluid
[NASA-TM-77381] 07 p1001 N84-16490
The movement of water droplets in clouds around the nose of an atmospheric research aircraft
[NASA-TM-77358] 07 p1001 N84-16491
The start-up of a gas turbine engine using compressed air tangentially fed onto the blades of the basic turbine
[NASA-TM-77021] 07 p1012 N84-16563
Solar cells of metal-free phthalocyanine dispersed in polyvinyl carbazole. 1: Effects of the recrystallization of H2PC on cell characteristics
[NASA-TM-77043] 07 p1025 N84-16639
The elements of the Earth's magnetism for the Epochs 1600, 1650, 1700, 1780, 1842 and 1885, and their secular changes derived from observations calculated using the coefficients of the Gaussian 'General Theory of Earth's Magnetism'
[NASA-TM-77100] 07 p1033 N84-16700
On the determination of the coefficients of the Gaussian general theory of the Earth's magnetism for the year 1885 and about the relationship of the three Earth-magnetic elements
[NASA-TM-77105] 07 p1033 N84-16701
The magnetic state of the Earth (according to the magnetic maps for 1880.0 published by the German Naval Office)
[NASA-TM-77058] 07 p1033 N84-16702
Studies of proteinograms in dermatophytes by disc electrophoresis. 1. Protein bands in relation to growth phase
[NASA-TM-77095] 07 p1042 N84-16755
Birth of space plant growing
[NASA-TM-77244] 07 p1042 N84-16756
Aerospace Medicine and Biology: A continuing bibliography with indexes (supplement 253)
[NASA-SP-7011(253)] 07 p1047 N84-16790
Development of a systems theoretical procedure for evaluation of the work organization of the cockpit crew of a civil transport airplane
[NASA-TM-77359] 07 p1051 N84-16806
The actual content of quantum theoretical kinematics and mechanics
[NASA-TM-77379] 07 p1083 N84-17046
Astronomical observatories
[NASA-TM-77295] 07 p1089 N84-17082
Periods of activity cycles in late-type stars
[NASA-TM-77297] 07 p1091 N84-17094
Preliminary discussion on the origin of Lei-gong-mo (tektites)
[NASA-TM-77328] 07 p1091 N84-17095
Aeronautical engineering. A continuing bibliography with indexes, supplement 169, January 1984
[NASA-SP-7037(169)] 08 p1095 N84-17117
A new dimension in space experimentation
[NASA-NF-140] 08 p1109 N84-17210
Considerations on the external combustion system of the Stirling hot gas engine
[NASA-TM-77026] 08 p1123 N84-17302
Current trends and research challenges in land remote sensing 08 p1174 N84-17651
The effect of various carbon sources on the growth of single-celled cyanophyta
[NASA-TM-77090] 08 p1197 N84-17804
Introduction to acoustic emission
[NASA-TM-77088] 08 p1227 N84-18016
Rotary wing aircraft and technical publications of NASA, 1970 - 1982
[NASA-TM-85521] 08 p1239 N84-18102
The Concorde and aeronautical research
[NASA-TM-76973] 09 p1249 N84-18153
Reduction of the shock wave intensity by modifying the transonic blade trailing edge
[NASA-TM-77029] 09 p1251 N84-18169
Air intakes for a probative missile of rocket ramjet
[NASA-TM-77407] 09 p1251 N84-18170
Remarks on the layout of the subsonic free jet wind tunnels
[NASA-TM-77326] 09 p1258 N84-18214
Remembered images, NASA 1958-1983
[NASA-EP-200] 09 p1260 N84-18224
Investigations on the system boron-carbon silicon
[NASA-TM-77375] 09 p1275 N84-18324

The definition of the process of electrochemical impregnation of nickel electrodes
[NASA-TM-77356] 09 p1277 N84-18338
Adsorbent phosphates
[NASA-TM-76999] 09 p1277 N84-18339
Characterization of ceramic powders by an X-ray measuring method
[NASA-TM-77094] 09 p1286 N84-18398
Air-jet milling of grinding materials
[NASA-TM-77366] 09 p1291 N84-18430
Second All-Union Seminar on Hydromechanics and Heat-Mass Transfer in Weightlessness. Abstracts of reports: Table of contents
[NASA-TM-77534] 09 p1312 N84-18576
The NASTRAN theoretical manual
[NASA-SP-221(06)] 09 p1329 N84-18677
Earth Resources: A continuing bibliography with indexes, issue 40
[NASA-SP-7041(40)] 09 p1336 N84-18723
Testing the authenticity of moldavite by electron microscopy
[NASA-TM-77335] 09 p1343 N84-18773
The magnetic state of the Earth at epoch 1885.0
[NASA-TM-77342] 09 p1343 N84-18774
NASA Space Biology Program. Eighth annual symposium's program and abstracts
[NASA-CP-2299] 09 p1351 N84-18829
Significant NASA inventions available for licensing in foreign countries
[NASA-SP-7038(05)] 09 p1399 N84-19133
Significant NASA inventions available for licensing in foreign countries
[NASA-SP-7038(07)] 09 p1399 N84-19134
Aerospace bibliography, seventh edition
[NASA-TM-85436] 09 p1399 N84-19136
Stellar atmospheric structural patterns
[NASA-SP-471] 09 p1414 N84-19253
Introductory comments on stellar atmospheric structure and its modeling 09 p1414 N84-19254
Speculative-theoretical modeling of the atmosphere enveloping a hypothetical (closed, thermal) star 09 p1414 N84-19255
Empirical-theoretical survey of the variety of peculiarities and anomalies in the atmospheres enveloping actual stars 09 p1414 N84-19256
Characteristics of distinctive regions comprising stellar atmospheres 09 p1415 N84-19257
Observed distinctive radial sequences of the distinctive atmospheric regions comprising stellar atmospheres 09 p1415 N84-19258
Inferences on the thermodynamic characteristics of a star from the observed distinctive radial sequences of the distinctive atmospheric regions comprising that stellar atmosphere 09 p1415 N84-19259
Construction of a model of the Venus surface and its use in processing radar observations
[NASA-TM-77298] 09 p1416 N84-19264
With a view to their practical solution: Sixty years with NACA and NASA, 1915 - 1976
[NASA-TM-85555] 09 p1418 N84-19277
Aeronautical engineering, a continuing bibliography with indexes
[NASA-SP-7037(171)] 10 p1419 N84-19279
National Aerospace Laboratory News (Japan)
[NASA-TM-76962] 10 p1427 N84-19335
Use of adaptive walls in 2D tests
[NASA-TM-77380] 10 p1432 N84-19359
Public announcement of flight opportunity for materials science experiments on the Spacelab Mission D1: Extract
[NASA-TM-77277] 10 p1434 N84-19378
Flow processes in overexpanded chemical rocket nozzles. Part 1: Flow separation
[NASA-TM-77396] 10 p1450 N84-19470
Flow processes in overexpanded chemical rocket nozzles. Part 2: Side loads due to asymmetric separation
[NASA-TM-77395] 10 p1450 N84-19471
Synthesis of polyamides from diamines of the fluorene series
[NASA-TM-77398] 10 p1451 N84-19476
Resin composition
[NASA-TM-77457] 10 p1451 N84-19477
Flexible substrate for printed wiring
[NASA-TM-77459] 10 p1451 N84-19478
Investigation of the thermophysical properties of high-melting materials with the aid of a complex of instruments
[NASA-TM-77402] 10 p1453 N84-19491
Method of refining 2,2-isopropylidenebis-3,5-dibromophenylene-4-oxydiethanol
[NASA-TM-77458] 10 p1453 N84-19492
Stability and electrokinetic potential of silicon carbide suspensions in aqueous organic media
[NASA-TM-77428] 10 p1454 N84-19494
Properties of carbon fibers with various coatings
[NASA-TM-77027] 10 p1464 N84-19563
Standardization and selection of a method for evaluating shear resistance of lubricating oils with polymer additives
[NASA-TM-77383] 10 p1465 N84-19569
Influence parameters of impact grinding mills
[NASA-TM-77352] 10 p1471 N84-19607
Fluorescent discharge lamp
[NASA-TM-77456] 10 p1485 N84-19706
On transit time instability in liquid jets
[NASA-TM-77455] 10 p1490 N84-19742
Hydromechanics and heat and mass exchange in weightlessness (Russian book): Table of contents
[NASA-TM-77533] 10 p1490 N84-19743
NASA TM processing system description and status 10 p1524 N84-19979
Energy: A continuing bibliography with indexes, issue 39
[NASA-SP-7043(39)] 10 p1528 N84-20011
Evaluation of nickel-hydrogen battery for space application
[NASA-TM-77355] 10 p1528 N84-20012
The elements of the Earth's magnetism and their secular changes between 1550 and 1915
[NASA-TM-77343] 10 p1533 N84-20043
Studies on proteinograms in dermatorphytes by disc electrophoresis. Part 2: Protein bands of keratinophilic fungi
[NASA-TM-77096] 10 p1545 N84-20127
Aeronautical Engineering: 1983 cumulative index
[NASA-SP-7037(170)] 10 p1546 N84-20133
Aerospace Medicine and Biology: A continuing bibliography with indexes (supplement 255)
[NASA-SP-7011(255)] 10 p1546 N84-20134
The DFVLR main department for central data processing, 1976 - 1983
[NASA-TM-77314] 10 p1556 N84-20196
Stationary and non-stationary nonlinear optical spectroscopy on surface polaritons
[NASA-TM-77388] 10 p1578 N84-20340
Subbarrier absorption in a stationary superlattice
[NASA-TM-77387] 10 p1587 N84-20402
The preparation of BP single crystals by high pressure flux method
[NASA-TM-77389] 10 p1587 N84-20403
NASA patent abstracts bibliography. Section 1: Abstracts
[NASA-SP-7039(24)-SECT-1] 10 p1592 N84-20432
Patent abstracts bibliography, a continuing bibliography. Section 2: Indexes
[NASA-SP-7039(24)-SECT-2] 10 p1592 N84-20433
Kinematics, influence functions and field quantities for disturbance propagation from moving disturbance sources
[NASA-TM-77410] 11 p1601 N84-20489
Development of a VOR/DME model for an advanced concepts simulator
[NASA-TM-85717] 11 p1604 N84-20505
NASA control research overview 11 p1615 N84-20568
Two-dimensional wind tunnel
[NASA-TM-76963] 11 p1620 N84-20602
Technique for manufacturing nickel electrodes
[NASA-TM-77239] 11 p1632 N84-20671
Particle size distribution of typical ceramic raw materials by laser granulometry
[NASA-TM-77385] 11 p1636 N84-20696
Shearing stability of lubricants
[NASA-TM-77435] 11 p1636 N84-20697
Recent trends and theoretical background in sintering of silicon carbide ceramics
[NASA-TM-77378] 11 p1636 N84-20698
Technique for removing resin from a molded object
[NASA-TM-77240] 11 p1641 N84-20729
Aerospace Medicine and Biology: 1983 cumulative index
[NASA-SP-7011(254)] 11 p1693 N84-21043
Aerospace medicine and biology: A continuing bibliography with indexes
[NASA-SP-7011(256)] 11 p1693 N84-21044
Automatic evaluation of interferograms
[NASA-TM-76953] 11 p1731 N84-21291
Polarization radiation in the planetary atmosphere delimited by a heterogeneous diffusely reflecting surface
[NASA-TM-77296] 11 p1731 N84-21292
NASA Administrative Data Base Management Systems, 1983
[NASA-CP-2304] 11 p1747 N84-21403
NASA's emerging productivity program 11 p1748 N84-21404
Action Information Management System (AIMS): A user's view 11 p1748 N84-21405
Automated RTOP management system 11 p1748 N84-21406
NASA Scientific and Technical Information System (STI) and new directory of numerical data bases 11 p1749 N84-21413
Aeronautical Engineering: A continuing bibliography, supplement 172
[NASA-SP-7037(172)] 12 p1763 N84-21492
The NASTRAN user's manual
[NASA-SP-222(06)] 12 p1825 N84-21899
Energy: A continuing bibliography with indexes, issue 40, January 1984
[NASA-SP-7043(40)] 12 p1837 N84-21977
Satellite data relay and platform locating in oceanography. Report of the In Situ Ocean Science Working Group
[NASA-TM-85443] 12 p1860 N84-22116
Aerospace Medicine and Biology: A continuing bibliography with indexes, supplement 257
[NASA-SP-7011(257)] 12 p1864 N84-22146
The star splitters: The high energy astronomy observatories
[NASA-SP-466] 12 p1921 N84-22516
NASA Thesaurus supplement. Part 1: Hierarchical listing
[NASA-SP-7051(SUPPL-1)] 13 p2066 N84-23398
Reports of planetary geology program, 1983
[NASA-TM-86246] 13 p2073 N84-23431
Cratering history of the Saturnian satellites 13 p2079 N84-23473
Computation of viscous flows over airfoils, including separation, with a coupling approach
[NASA-TM-77079] 14 p2101 N84-23607
Aerodynamic characteristics of the 40- by 80/80- by 120-foot wind tunnel at NASA Ames Research Center
[NASA-TM-85946] 14 p2104 N84-23622
Development of MCAERO wing design panel method with interactive graphics module
[NAS 1.60:3775] 14 p2104 N84-23623
A study of helicopter gust response alleviation by automatic control
[NASA-TM-85870] 14 p2111 N84-23655
Future space transport
[NASA-TM-77554] 14 p2114 N84-23668
Grain boundary engineering of mechanical strength of silicon nitride (Si3N4)
[NASA-TM-77433] 14 p2119 N84-23699
Strength evaluation test of pressureless-sintered silicon nitride at room temperature
[NASA-TM-77394] 14 p2119 N84-23700
Rheological study of clay-kaolin aqueous suspensions
[NASA-TM-77363] 14 p2121 N84-23711
Deflocculation of clay suspensions using sodium polyacrylates
[NASA-TM-77432] 14 p2121 N84-23712
Gas pressure sintering of Beta-Sialon with Z=3
[NASA-TM-77421] 14 p2129 N84-23765
The role of water in slip casting
[NASA-TM-77578] 14 p2134 N84-23786
Earth Resources: A continuing bibliography with indexes
[NASA-SP-7041(41)] 14 p2166 N84-23975
Discussion of the design of satellite-laser measurement stations in the eastern Mediterranean under the geological aspect. Contribution to the earthquake prediction research by the Wegener Group and to NASA's Crustal Dynamics Project
[NASA-TM-77412] 14 p2175 N84-24031
A spatial model of wind shear and turbulence for flight simulation
[NASA-TP-2313] 14 p2178 N84-24044
Aerospace Medicine and Biology: A continuing bibliography with indexes (supplement 258)
[NASA-SP-7011(258)] 14 p2184 N84-24088
Velocities of guided ultrasonic waves in heterogeneous medium
[NASA-TM-77445] 14 p2221 N84-24325
Manifestation of the Fermi resonance in surface polariton spectra
[NASA-TM-77386] 14 p2222 N84-24330
Fiber optic sensors
[NASA-TM-77404] 14 p2224 N84-24346
Preliminary study of microtektites first discovered in the central Pacific by China
[NASA-TM-77470] 14 p2250 N84-24514
Spacecraft control research at NASA 15 p2266 N84-24604
Space-exposed experiment developed for students 15 p2277 N84-24676
Effects of chemical releases by the STS-3 Orbiter on the ionosphere
[NASA-CR-171032] 15 p2367 N84-25204
Advances in planetary geology
[NASA-TM-86247] 15 p2426 N84-25567
Nitrogen threshold experiment 15 p2427 N84-25578
Astronautics and aeronautics, 1976. A chronology
[NASA-SP-4021] 15 p2431 N84-25602

Aeronautical Engineering, a continuing bibliography with indexes, supplement 173
[NASA-SP-7037(173)] 16 p2433 N84-25603
Aeronautical Engineering: A continuing bibliography with indexes, supplement 174
[NASA-SP-7037(174)] 16 p2433 N84-25604
Cold-air performance of compressor-drive turbine of department of energy upgraded automobile gas turbine engine. 3: Performance of redesigned turbine
[NASA-TM-83627] 16 p2438 N84-25644
Technology for large space systems: A bibliography with indexes
[NASA-SP-7046(10)] 16 p2454 N84-25736
Living and working in space. A history of Skylab
[NASA-SP-4208] 16 p2454 N84-25737
Fabrication of highly dense SiN4 ceramics without additives by high pressure sintering
[NASA-TM-77425] 16 p2470 N84-25829
Microanalytical study of some cosmic dust discovered in sea-floor sediments in China
[NASA-TM-77409] 16 p2504 N84-26068
Development of a new, completely implantable intraventricular pressure meter and preliminary report of its clinical experience
[NASA-TM-77121] 16 p2535 N84-26276
Analytical solution of 1st and 2nd ordinary differential equations using the REDUCE 2 algebra manipulation program
[NASA-TM-77446] 16 p2548 N84-26351
Crystallization of the glassy phase of grain boundaries in silicon nitride
[NASA-TM-77466] 16 p2560 N84-26421
Management. A continuing bibliography for NASA managers, with indexes
[NASA-SP-7500(18)] 16 p2561 N84-26429
The Pilot Land Data System: Report of the Program Planning Workshops
[NASA-TM-86250] 16 p2566 N84-26468
NASA, the first 25 years: 1958 - 1983
[NASA-EP-182] 16 p2583 N84-26563
An experiment proposed and set up by the readers will be flying on board the Shuttle; these are the rules of the game; the experiments of others
[NASA-TM-77102] 17 p2612 N84-26718
Aerospace Medicine and Biology: A continuing bibliography with indexes (supplement 259)
[NASA-SP-7011(259)] 17 p2743 N84-27415
Abundances in galactic H2 regions, 3: G25.4-0.2, G45.5+0.06, M8, S159 and DR22
[NASA-TM-85962] 17 p2774 N84-27616
Solar Irradiance Variations on Active Region Time Scales
[NASA-CP-2310] 17 p2778 N84-27635
Proceedings of a Workshop on Research Needs in Heterogeneous Tropospheric Chemistry
[NASA-CP-2320] 18 p2855 N84-28131
Aeronautical Engineering: A continuing bibliography with indexes (supplement 175)
[NASA-SP-7037(175)] 19 p2955 N84-28726
Aeronautical Engineering: A Continuing Bibliography with indexes (supplement 176)
[NASA-SP-7037(176)] 19 p2956 N84-28733
Growian rotor blades: Production development, construction and test
[NASA-TM-77479] 19 p2965 N84-28793
Design of wind shear filters
[NASA-TM-77460] 19 p2968 N84-28808
The F2 wind tunnel at Fauga-Mauzac
[NASA-TM-77482] 19 p2969 N84-28814
Hot-pressed silicon nitride with various lanthanide oxides as sintering additives
[NASA-TM-77424] 19 p2985 N84-28916
Investigation of the influence of the zeta-potential on the filtration rate in the presence of collectors
[NASA-TM-77447] 19 p2987 N84-28927
Organic materials for ceramic molding processes
[NASA-TM-77438] 19 p2997 N84-28991
Pressure filtration of ceramic pastes. 4: Treatment of experimental data
[NASA-TM-77454] 19 p2997 N84-28992
Grinding kinetics and equilibrium states
[NASA-TM-77430] 19 p3002 N84-29025
Stabilized luminous arcs (rotating arcs) in nitrogen and carbon dioxide at pressures of one to forty atmospheres
[NASA-TM-77506] 19 p3012 N84-29095
Flow properties of concentrated suspensions
[NASA-TM-77431] 19 p3021 N84-29154
Numerical solution for the interaction of shock wave with laminar boundary layer in two-dimensional flow on a flat plate
[NASA-TM-77408] 19 p3022 N84-29160
Dynamic property studies of Sterling engines
[NASA-TM-77719] 19 p3031 N84-29225
The statistical theory of the fracture of fragile bodies. Part 2: The integral equation method
[NASA-TM-77449] 19 p3035 N84-29250
NASA-OAST photovoltaic energy conversion program
19 p3044 N84-29308
Space station 19 p3049 N84-29344
Hydrogen storage in the form of metal hydrides
[NASA-TM-77453] 19 p3050 N84-29356
Aerospace Medicine and Biology: A continuing bibliography with indexes (supplement 260)
[NASA-SP-7011(260)] 19 p3064 N84-29440
Boundary migration and disappearance of voids in Alpha-Al2O3 at 2000 deg C
[NASA-TM-77436] 19 p3110 N84-29758
Analysis of airfoil transitional separation bubbles
[NASA-CR-3791] 20 p3126 N84-29854
Calculation of the statistical characteristics of surface
[NASA-TM-77462] 20 p3183 N84-30222
Geodynamics
[NASA-CP-2325] 20 p3222 N84-30475
Geodynamics: Introduction and background
20 p3222 N84-30476
Projection for space geodynamics, 1988-1998
20 p3222 N84-30477
Recommended program activities, 1988-1998
20 p3223 N84-30478
NASA space biology accomplishments, 1983-84
[NASA-TM-86654] 20 p3256 N84-30664
Aerospace Medicine and Biology: A continuing bibliography with indexes (supplement 261)
[NASA-SP-7011(261)] 20 p3259 N84-30683
Index to NASA News Releases and Speeches, 1983
[NASA-TM-85509] 20 p3314 N84-31047
Earth resources, a continuing bibliography with indexes
[NASA-SP-7041(42)] 21 p3425 N84-31725
NASA patent abstracts bibliography, a continuing bibliography. Section 1: Abstracts (Supplement 25)
[NASA-SP-7039(25)-SECT-1] 21 p3516 N84-32272
Microgravity Science Applications Bibliography: 1984 revision
[NASA-TM-86651] 21 p3518 N84-32283
Aeronautical Engineering: A continuing bibliography with indexes (supplement 177)
[NASA-SP-7037(177)] 22 p3529 N84-32342
Aeronautical Engineering: A Continuing Bibliography with indexes
[NASA-SP-7037(178)] 22 p3529 N84-32343
The NASA photovoltaic technology program
[NASA-TM-83685] 22 p3542 N84-32426
Publications of the NASA space biology program for 1980 - 1984
[NASA-TM-86857] 22 p3628 N84-32990
Aerospace Medicine and Biology: A continuing bibliography with indexes
[NASA-SP-7011(262)] 22 p3630 N84-33003
NASA Patents Abstracts bibliography: A continuing bibliography. Section 2: Indexes (supplement 25)
[NASA-SP-7039(25)-SECT-2] 22 p3669 N84-33257
NASA Administrative Data Base Management Systems, 1984
[NASA-CP-2323] 22 p3671 N84-33266
Effective organizational solutions for implementation of DBMS software packages 22 p3671 N84-33268
Spinoff, 1984
[NASA-TM-85596] 22 p3676 N84-33305
Aeronautics and space report of the President, 1983 activities
[NASA-TM-85538] 22 p3684 N84-33364
Kasprzyk airfoil. The first wind-tunnel tests
[NASA-TM-77757] 23 p3689 N84-33380
Experimental determination of the inertia constants of an airplane or of a missile
[NASA-TM-77767] 23 p3689 N84-33381
A possibility of avoiding surface roughness due to insects
[NASA-TM-77419] 23 p3690 N84-33384
Comparison of combustion efficiencies for ramjet engines
[NASA-TM-77749] 23 p3694 N84-33411
Non-destructive evaluation techniques, high temperature ceramic component parts for gas turbines
[NASA-TM-77755] 23 p3694 N84-33413
Space station program description document. Books 1-7
[NASA-TM-86652-BK-1-7] 23 p3698 N84-33437
Space station program description document: Introduction and summary, book 1
[NAS 1.15:86652-BK-1] 23 p3698 N84-33438
Mission description document, book 2
[NAS 1.15:86652-BK-2] 23 p3698 N84-33439
System requirements and characteristics, book 3
[NAS 1.15:86652-BK-3] 23 p3698 N84-33440
Advanced development program, books 4 and 5
[NAS 1.15:86652-BK-4/5] 23 p3699 N84-33441
System operations, book 6
[NAS 1.15:86652-BK-6] 23 p3699 N84-33442
Program plan, book 7
[NAS 1.15:86652-BK-7] 23 p3699 N84-33443
Interactions between satellites and plasma
[NASA-TM-77476] 23 p3700 N84-33451
Space stations: Living in zero gravity, developmental task for psychologists and space environmental experts
[NASA-TM-77620] 23 p3700 N84-33454
Behavior of Al2O3 and SiO2 with heating in a Cl2 + CO stream
[NASA-TM-77487] 23 p3713 N84-33533
Research on oxidation by air and tempering of Raney nickel electrocatalysts for the H2 anodes of alkali combustion materials cells
[NASA-TM-77414] 23 p3713 N84-33535
Effects of applied pressure on hot-pressing of Beta-SiC
[NASA-TM-77397] 23 p3723 N84-33593
Oxidation characteristics of molybdenum-zirconium oxide cermets
[NASA-TM-77622] 23 p3723 N84-33594
Visualization of the 3-dimensional flow around a model with the aid of a laser knife
[NASA-TM-77497] 23 p3746 N84-33748
Balloon test project: Cosmic Ray Antimatter Calorimeter (CRAC)
[NASA-TM-77461] 23 p3750 N84-33772
An analysis of the effect of biological and physical parameters of a wetlands grass biome on the spectral modeling of phytomass and primary productivity
23 p3769 N84-33891
Remote sensing of the marginal ice zone during Marginal Ice Zone Experiment (MIZEX) 83
23 p3772 N84-33910
Study of the system of middle atmosphere-ionosphere using remote-sensing data
[NASA-TM-77764] 23 p3797 N84-34074
Ultrastructural alterations in skeletal muscle fibers of rats after exercise
[NASA-TM-76976] 23 p3804 N84-34117
Human capabilities in space
[NASA-TM-87360] 23 p3811 N84-34165
System design of a remotely operated, program controlled measurement table for the calibration of the Egret experiment. Part A: Program control
[NASA-TM-77758] 23 p3812 N84-34172
Experimental research on electric propulsion. Note 5: Experimental study of a magnetic field stabilized arc-jet
[NASA-TM-77474] 23 p3826 N84-34266
Master list and index to NASA directives
[NASA-TM-87362] 23 p3834 N84-34321
Trends in Planetary Data Analysis. Executive summary of the Planetary Data Workshop
[NASA-CP-2333] 23 p3841 N84-34363
Planetary Data Workshop, part 1
[NASA-CP-2343-PT-1] 23 p3841 N84-34366
Planetary data definition 23 p3841 N84-34367
User requirements 23 p3841 N84-34368
Configuration and implementation
23 p3842 N84-34369
Imaging data 23 p3842 N84-34370
Non-imaging remote sensing data
23 p3842 N84-34371
In situ data 23 p3842 N84-34372
Radio science 23 p3842 N84-34373
Earth-based planetary data 23 p3842 N84-34374
Laboratory 23 p3842 N84-34375
Planetary Data Workshop, part 2
[NASA-CP-2343-PT-2] 23 p3842 N84-34376
Database management 23 p3843 N84-34377
SOFT-1: Imaging processing software
23 p3843 N84-34378
Non-imaging software/data analysis requirements
23 p3843 N84-34379
Geometry software common to all experiments
23 p3843 N84-34380
Networking 23 p3843 N84-34381
Planetary science analysis support system: Hardware report 23 p3843 N84-34382
A new method of evaluating the side wall interference effect on airfoil angle of attack by suction from the side walls
[NASA-TM-77722] 24 p3852 N84-34432
GROB G-112: Flight testing fulfills expectations
[NASA-TM-77745] 24 p3854 N84-34438
Cryogenic wind tunnel technology. A way to measurement at higher Reynolds numbers
[NASA-TM-77481] 24 p3857 N84-34451
Dynamic analysis of evolutive conservative systems. Discussion of eigenmode crossings
[NASA-TM-77052] 24 p3860 N84-34462
Phenomenology of plasma engine cathodes at high current rates and low pressures
[NASA-TM-77729] 24 p3866 N84-34502
Silicon carbide material sintered bodies manufacturing
[NASA-TM-77596] 24 p3878 N84-34574
Directional solidification of Al2-Cu-Al and Al3-Ni-Al eutectics during TEXUS rocket flight
[NASA-TM-77552] 24 p3883 N84-34602

Application of quantitative microscopy to ceramics
[NASA-TM-77420] 24 p3868 N84-34618
Heat transfer characteristics of regenerator matrix (case of packed wire gauzes)
[NASA-TM-77448] 24 p3899 N84-34693
Contribution to the performance of microjets
[NASA-TM-77730] 24 p3900 N84-34694
Magnetic record support
[NASA-TM-77619] 24 p3902 N84-34709
Electronic 4-wheel drive control device
[NASA-TM-77618] 24 p3910 N84-34764
The calculation of molecular Eigen-frequencies
[NASA-TM-77759] 24 p3961 N84-35086
Measurement and evaluation of arc characteristics (Ar,N2)
[NASA-TM-77507] 24 p3965 N84-35106
Study of annoyance due to urban automobile traffic. Annex 5: Sociological study
[NASA-TM-77515] 24 p3968 N84-35124
Voyager 1 and 2 atlas of six Saturnian satellites
[NASA-SP-474] 24 p3989 N84-35242
On Mars: Exploration of the red planet, 1958 - 1978
[NASA-SP-4212] 24 p3990 N84-35248
Why Mars? 24 p3990 N84-35249
The cart before the horse: Mariner spacecraft and launch vehicles 24 p3990 N84-35250
The search for Martian life begins, 1959 - 1965 24 p3990 N84-35251
Voyager: Perils of advanced planning, 1960 - 1967 24 p3991 N84-35252
Reorganization and creation of Viking 24 p3991 N84-35253
Viking orbiter and its Mariner inheritance 24 p3991 N84-35254
Viking lander: Creating the science teams 24 p3991 N84-35255
Viking lander: Building a complex spacecraft 24 p3991 N84-35256
Safe havens: Selecting landing sites for Viking 24 p3991 N84-35257
Site certification and landing 24 p3991 N84-35258
On Mars 24 p3991 N84-35259
Meteorite bombardment and dating of planetary surfaces
[NASA-TM-77558] 24 p3991 N84-35260

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION. AMES RESEARCH CENTER, MOFFETT FIELD, CALIF.

An experimental investigation of a free-tip rotor configuration in a forward flight wind-tunnel test
[NASA-TM-84409] 01 p0003 N84-10018
Subsonic high-angle-of-attack aerodynamic characteristics of a cone and cylinder with triangular cross sections and a cone with a square cross section
[NASA-TM-84377] 01 p0003 N84-10019
Model helicopter rotor high-speed impulsive noise: Measured acoustics and blade pressures
[NASA-TM-85850] 01 p0003 N84-10020
Flight measurements of hinged-plate wing-spoiler hinge moments
[NASA-TM-84343] 01 p0003 N84-10021
A simulation investigation of the effects of engine-and thrust-response characteristics on helicopter handling qualities
[NASA-TM-85849] 01 p0005 N84-10034
Optimization of aircraft seat cushion fire blocking layers
[NASA-TM-85430] 01 p0006 N84-10037
Development and flight test of an X-band precision approach concept for remote-area rotorcraft operations
[NASA-TM-84398] 01 p0007 N84-10041
Flight evaluation results from the general-aviation advanced avionics system program
[NASA-TM-84397] 01 p0007 N84-10042
Time controlled descent guidance algorithm for simulation of advanced ATC systems
[NASA-TM-84373] 01 p0007 N84-10043
Numerical calculation of the transonic potential flow past a cranked wing
[NASA-TM-84301] 01 p0008 N84-10049
Application of an adaptive blade control algorithm to a gust alleviation system
[NASA-TM-85848] 01 p0012 N84-10079
Control of the forebody vortex orientation by asymmetric air injection. Part A: Application to enhance departure/spin recovery of fighter aircraft and Part B: Details of the flow structure 01 p0014 N84-10088
Catalytic surface effects on space thermal protection system during Earth entry of flights STS-2 through STS-5 01 p0024 N84-10152
An experimental documentation of trailing-edge flows at high Reynolds number
[NASA-TM-84375] 01 p0076 N84-10498
The growth of paracoccus halodenitrificans in a defined medium
[NASA-TM-84411] 01 p0111 N84-10724
The physiological effects of simultaneous exposures to heat and vibration
[NASA-TM-84400] 01 p0113 N84-10732
Airloads on bluff bodies, with application to the rotor-induced downloads on tilt-rotor aircraft
[NASA-TM-84401] 02 p0174 N84-11142
Rotor/body aerodynamic interactions
[NASA-TM-85844] 02 p0174 N84-11143
Flight test results of the strapdown ring laser gyro tetrad inertial navigation system
[NASA-TM-84358] 02 p0176 N84-11157
Simulation and evaluation of the Sh-2F helicopter in a shipboard environment using the interchangeable cab system
[NASA-TM-84387] 02 p0180 N84-11176
Adaptive inverse control for helicopter vibration reduction
[NASA-TM-84336] 02 p0181 N84-11177
A flight-test evaluation of a go-around control system for a twin engine powered-lift STOL airplane
[NASA-TM-84408] 02 p0181 N84-11178
Curing of epoxy resins with 1-DI(2-chloroethoxyphosphinyl) methyl-2,4 and -2,6-diaminobenzene
[NASA-TM-84350] 02 p0186 N84-11212
Fluoroether modified epoxy composites
[NASA-CASE-ARC-11418-1] 02 p0187 N84-11213
Transmission electron microscopy characterization of microstructural features of Al-Li-Cu alloys
[NASA-TM-84384] 02 p0193 N84-11255
Stress-corrosion behavior of aluminum-lithium alloys in aqueous environments
[NASA-TM-85853] 02 p0193 N84-11256
A surface analytical examination of Stringer particles in Al-Li-Cu alloys
[NASA-TM-85854] 02 p0193 N84-11257
Composition and analysis of a model waste for a CELSS (Controlled Ecological Life Support System)
[NASA-TM-84368] 02 p0269 N84-11760
An overview of the demonstration advanced avionics system guest pilot evaluation conducted at Ames Research Center 03 p0314 N84-12049
On issues concerning flow separation and vortical flows in three dimensions 03 p0321 N84-12100
Numerical simulation of vortex breakdown by the vortex-filament method 03 p0325 N84-12126
Augmentation of fighter-aircraft performance by spanwise blowing over the wing leading edge 03 p0326 N84-12133
Visual accommodation trainer-tester
[NASA-CASE-ARC-11426-1] 03 p0338 N84-12193
Polymers of phosphonylmethyl-2,4- and -2,6-diamino benzenes and the like
[NASA-CASE-ARC-11506-1] 03 p0356 N84-12313
Computation of turbulent flows over backward-facing step
[NASA-TM-85851] 03 p0371 N84-12414
Thermal conductance measurements of pressed OFHC copper contacts at liquid helium temperatures
[NASA-TM-85861] 03 p0429 N84-12809
Spatial dependences in the distant solar wind: Pioneers 10 and 11 03 p0472 N84-13107
Rotor systems research aircraft: Fixed-wing simulations results
[NASA-TM-85863] 04 p0483 N84-13176
Flight testing the Rotor Systems Research Aircraft (RSRA)
[NASA-TM-85852] 04 p0483 N84-13177
Preliminary results of the first static calibration of the RSRA helicopter active-isolator rotor balance system
[NASA-TM-84395] 04 p0483 N84-13178
Flight test and analyses of the B-1 structural mode control system at supersonic flight conditions
[NASA-CR-170405] 04 p0487 N84-13197
Flight-test of the glide-slope track and flare-control laws for an automatic landing system for a powered-lift STOL airplane
[NASA-TP-2128] 04 p0487 N84-13198
Solution of Poisson equations for 3-dimensional grid generations
[NASA-TM-85857] 04 p0588 N84-13886
Baffle system employing reflective surfaces
[NASA-TM-84406] 04 p0604 N84-13985
Origin and evolution of the Saturn system
[NASA-TM-85847] 04 p0621 N84-14096
The use of oil for in-flight flow visualization
[NASA-TM-84915] 05 p0627 N84-14122
NASA B-57B severe storms flight program
[NASA-TM-84921] 05 p0628 N84-14129
Comparison of flight results with digital simulation for a digital electronic engine control in an F-15 airplane
[NASA-TM-84903] 05 p0630 N84-14144
Design implications from AFTI/F-16 flight test
[NASA-TM-86026] 05 p0632 N84-14157
Elastomer-modified phosphorus-containing imide resins
[NASA-CASE-ARC-11400-1] 05 p0657 N84-14322
Higher-order derivative correlations and the alignment of small-scale structures in isotropic numerical turbulence
[NASA-TM-84407] 05 p0679 N84-14464
Project management techniques for highly integrated programs
[NASA-TM-86023] 05 p0757 N84-14965
Design, development and flight test of a demonstration advanced avionics system 06 p0773 N84-15067
Incident reporting: Its role in aviation safety and the acquisition of human error data 06 p0775 N84-15081
Pilot human factors in stall/spin accidents of supersonic fighter aircraft 06 p0779 N84-15102
AFTI/F-16 flight test results and lessons
[NASA-TM-84920] 06 p0791 N84-15159
A helium-3 refrigerator employing capillary confinement of liquid cryogen 06 p0821 N84-15353
Numerical computation of transonic flow governed by the full-potential equation 06 p0839 N84-15469
Preflight transient dynamic analyses of B-52 aircraft carrying Space Shuttle solid rocket booster drop-test vehicle
[NASA-TM-84925] 06 p0858 N84-15588
Special opportunities in helicopter aerodynamics
[NASA-TM-84396] 07 p0946 N84-16138
Computational aerodynamics and supercomputers
[NASA-TM-85887] 07 p0946 N84-16139
Comparison of calculated and measured pressures on straight and swept-tip model rotor blades
[NASA-TM-85872] 07 p0947 N84-16143
A laser velocimeter system for large-scale aerodynamic testing
[NASA-TM-84393] 07 p0947 N84-16144
X-29 flight-research program
[NASA-TM-86025] 07 p0951 N84-16168
Real-time pilot guidance system for improved flight test maneuvers
[NASA-TM-84922] 07 p0952 N84-16176
Flight test experience with pilot-induced-oscillation suppression filters
[NASA-TM-86026] 07 p0958 N84-16213
A helicopter flight investigation of roll-control sensitivity, damping and cross coupling in a low altitude lateral maneuvering task
[NASA-TM-84376] 07 p0959 N84-16216
Simulator scene display evaluation
[NASA-CASE-ARC-11504-1] 07 p0960 N84-16221
Structure-activity correlations for organophosphorus ester anticholinesterases. Part 2: CNDO/2 calculations applied to ester hydrolysis rates
[NASA-TM-85888] 07 p0966 N84-16257
Process for preparing phthalocyanine polymers
[NASA-CASE-ARC-11511-1] 07 p0966 N84-16259
Amine terminated bisaspartimides, process for preparation thereof, and polymers thereof
[NASA-CASE-ARC-11421-1] 07 p0978 N84-16340
Vinyl styrylpyridines and their copolymerization with bismaleimide resins
[NASA-CASE-ARC-11429-1-CU] 07 p0979 N84-16341
Laser velocimetry in the low-speed wind tunnels at Ames Research Center
[NASA-TM-85885] 07 p1007 N84-16526
Techniques for avoiding discrimination errors in the dynamic sampling of condensable vapors
[NASA-TM-85886] 07 p1007 N84-16527
Application of holography to flow visualization
[NASA-TM-84325] 07 p1007 N84-16530
Visual slant misperception and the Black-Hole landing situation
[NASA-TM-85866] 07 p1049 N84-16795
Bifurcation analysis of aircraft pitching motions near the stability boundary
[NASA-TM-85881] 08 p1097 N84-17137
Mathematical modeling of the aerodynamic characteristics in flight dynamics
[NASA-TM-85880] 08 p1098 N84-17141
A recontoured, upper surface designed to increase the maximum lift coefficient of a modified NACA 65 (0.82) (9.9) airfoil section
[NASA-TM-85855] 08 p1099 N84-17144
In-flight load testing of advanced shuttle thermal protection systems
[NASA-TM-86024] 08 p1115 N84-17250
Research and technology report, 1983
[NASA-TM-85865] 08 p1247 N84-18152
Hover test of a full-scale hingeless helicopter rotor: Aeroelastic stability, performance and loads data
[NASA-TM-85892] 09 p1255 N84-18190
Flight evaluation of the DEEC secondary control air-start capability
[NASA-TM-84910] 09 p1257 N84-18203

An experimental investigation of the impingement of a planar shock wave on an axisymmetric body at Mach 3
[NASA-TM-84410] 09 p1312 N84-18573
Effect of creep in titanium alloy Ti-6Al-4V at elevated temperature on aircraft design and flight test
[NASA-TM-86033] 09 p1330 N84-18685
Structural development and gravity 09 p1353 N84-18842
Bone loss in tail-suspended rats in restricted to the unweighted limbs 09 p1353 N84-18843
Simulating certain aspects of hypogravity: Effects on the mandibular incisors of suspended rats (PULEH model) 09 p1353 N84-18844
Hyper-gravitational effects on metabolism and thermoregulation 09 p1358 N84-18871
Helicopter impulsive noise: Theoretical and experimental status
[NASA-TM-84390] 09 p1386 N84-19050
An assessment of the capability to calculate tilting prop-rotor aircraft performance, loads and stability
[NASA-TP-2291] 10 p1427 N84-19333
In-flight acoustic testing techniques using the YO-3A Acoustic Research Aircraft
[NASA-TM-85895] 10 p1427 N84-19334
Simulation applications at NASA Ames Research Center
[NASA-TM-85846] 10 p1432 N84-19362
Fire-retardant decorative inks for aircraft interiors
[NASA-TM-85876] 10 p1451 N84-19475
Acoustic responses of coupled fluid-structure system by acoustic-structural analogy 10 p1510 N84-19883
Nitrite reduction in paracoccus halodenitrificans: Evidence for the role of a cd-type cytochrome in ammonia formation
[NASA-TM-85883] 10 p1545 N84-20125
Biomedical Research Division significant accomplishments for FY 1983
[NASA-TM-85929] 10 p1545 N84-20128
An experimental evaluation of the Sternberg task as a workload metric for helicopter Flight Handling Qualities (FHQ) research
[NASA-TM-85884] 10 p1553 N84-20176
Three-dimensional flow over a conical afterbody containing a centered propulsive jet: A numerical simulation 10 p1560 N84-20222
Navier-Stokes simulation of homogeneous turbulence on the CYBER 205 10 p1560 N84-20224
Evaluation of a flow direction probe and a pitot-static probe on the F-14 airplane at high angles of attack and sideslip
[NASA-TM-84911] 11 p1606 N84-20514
A review of recent developments in flight test techniques at the Ames Research Center, Dryden Flight Research Facility
[NASA-TM-86039] 11 p1606 N84-20515
An automated stall-speed warning system
[NASA-TM-84917] 11 p1607 N84-20520
The development of an airborne instrumentation computer system for flight test
[NASA-TM-86036] 11 p1607 N84-20521
Space shuttle pilot-induced-oscillation research testing
[NASA-TM-86034] 11 p1615 N84-20566
Flying qualities criteria for superaugmented aircraft 11 p1615 N84-20569
A summary of rotorcraft handling qualities research at NASA Ames Research Center 11 p1615 N84-20571
Practical aspects of modeling aircraft dynamics from flight data 11 p1616 N84-20575
Mixing 4D-equipped and unequipped aircraft in the terminal area 11 p1616 N84-20577
Nonlinear systems approach to control system design 11 p1618 N84-20585
AFTI/F-16 digital flight control system experience 11 p1619 N84-20592
Abrasion by aeolian particles: Earth and Mars
[NASA-CR-3788] 11 p1628 N84-20654
Fire resistant polymers based on 1-((dialkoxyphosphonyl)methyl)-2,4- and -2,6-diaminobenzenes
[NASA-CASE-ARC-11512-1] 11 p1637 N84-20702
Crossed hot-wire data acquisition and reduction system
[NASA-TM-85871] 11 p1656 N84-20807
Laboratory glassware rack for seismic safety
[NASA-CASE-ARC-11422-1] 11 p1657 N84-20808
Detection of extrasolar planets by the large deployable reflector
[NASA-TM-85874] 11 p1757 N84-21471
The role of simulation in the development and flight test of the HiMAT vehicle
[NASA-TM-84912] 12 p1769 N84-21537
Numerical analysis of a variable camber rotor blade as a lift control device
[NASA-CR-173452] 12 p1769 N84-21538
Turbulence structures associated with the bursting event
[NASA-TM-85944] 12 p1815 N84-21831
A compressible Navier-Stokes code for turbulent flow modeling
[NASA-TM-85899] 12 p1815 N84-21833
Hygrothermal influence on delamination behavior of graphite/epoxy laminates
[NASA-TM-85935] 12 p1826 N84-21904
SETI science working group report
[NASA-TP-2244] 12 p1869 N84-22178
Computer graphics in aerodynamic analysis 12 p1873 N84-22206
A collection of procedures for defining airplane surfaces for input to PANAIR 12 p1875 N84-22220
Using a commercial CAD system for simultaneous input to theoretical aerodynamic programs and wind-tunnel model construction 12 p1875 N84-22223
Numerical modeling of D-mappings with applications to chemical kinetics
[NASA-TM-84332] 12 p1893 N84-22326
Application of a fractional-step method to incompressible Navier-Stokes equation
[NASA-TM-85898] 12 p1893 N84-22328
Programmable masks for optical information processing 12 p1906 N84-22415
Thermal contacts between metal and glass for use at cryogenic temperatures
[NASA-TM-85856] 12 p1907 N84-22423
Infrared emission associated with chemical reactions on Shuttle and SIRTF surfaces
[NASA-TM-85875] 12 p1921 N84-22515
V/STOL concepts in the United States: Past, present, and future
[NASA-TM-85938] 13 p1926 N84-22532
Numerical simulation of the tip vortex off a low-aspect-ratio wing at transonic speed
[NASA-TM-85932] 13 p1926 N84-22535
Assessment of aerodynamic performance of V/STOL and STOVL fighter aircraft
[NASA-TM-85937] 13 p1926 N84-22536
Preliminary experience with a stereoscopic video system in a remotely piloted aircraft application
[NASA-TM-84909] 13 p1931 N84-22557
Frequency encoded auditory display of the critical tracking task
[NASA-TM-85869] 13 p1931 N84-22558
V/STOL maneuverability and control
[NASA-TM-85939] 13 p1935 N84-22584
A formulation and analysis of combat games
[NASA-TM-85927] 13 p1935 N84-22585
Space station architecture, module, berthing hub, shell assembly, berthing mechanism and utility connection channel
[NASA-CASE-ARC-11505-1] 13 p1939 N84-22612
Fire and heat resistant laminating resins based on maleimido substituted aromatic cyclotriphosphazenes
[NASA-CASE-ARC-11428-1] 13 p1953 N84-22697
Process for preparing perfluorotriazine elastomers and precursors thereof
[NASA-CASE-ARC-11402-1] 13 p1961 N84-22744
Phosphorus-containing imide resins
[NASA-CASE-ARC-11368-3] 13 p1961 N84-22745
Carboranylmethylene-substituted phosphazenes and polymers thereof
[NASA-CASE-ARC-11370-1] 13 p1962 N84-22750
Turbulence modeling
[NASA-TM-85889] 13 p1989 N84-22913
Electronic scanning pressure measuring system and transducer package
[NASA-CASE-ARC-11361-1] 13 p1993 N84-22934
Modulated voltage metastable ionization detector
[NASA-CASE-ARC-11503-1] 13 p2019 N84-23093
Far-IR spectroscopy of the galactic center: Neutral and ionized gas in the central 10 pc of the galaxy
[NASA-CR-166510] 13 p2070 N84-23411
Origin and evolution of the Saturn system 13 p2073 N84-23433
Geologic studies of outer solar system satellites: Iapetus and Europa 13 p2075 N84-23448
The Borealis Basin of Mars 13 p2079 N84-23472
Long range transport of fine grained sediments on Mars: Atmospheric dust loading, as inferred from Viking Lander imaging data 13 p2082 N84-23488
Physical aspects of computing the flow of a viscous fluid
[NASA-TM-85893] 14 p2100 N84-23605
Water-tunnel study of transition flow around circular cylinders
[NASA-TM-85879] 14 p2100 N84-23606
NASA-FAA helicopter Microwave Landing System curved path flight test
[NASA-TM-85933] 14 p2103 N84-23617
A mathematical model of the UH-60 helicopter
[NASA-TM-85890] 14 p2110 N84-23653
Advanced leading edge thermal-structure concept. Direct bond reusable surface insulation to a composite structure
[NASA-TM-85941] 14 p2113 N84-23665
An explicit predictor-corrector solver with applications to Burgers' equation
[NASA-TM-84402] 14 p2211 N84-24276
Acoustic measurements of a full-scale rotor with four tip shapes. Volume 1: Text, appendices A and B
[NASA-TM-85878-VOL-1] 14 p2221 N84-24327
V/STOL wind-tunnel testing
[NASA-TM-85936] 15 p2253 N84-24526
Unsteady laminar boundary-layer calculations on oscillating configurations including backflow. Part 2: Airfoil in high-amplitude pitching motion. Dynamic stall
[NASA-TM-84319-PT-2] 15 p2254 N84-24537
Navier-Stokes calculations for the vortex of a rotor in hover
[NASA-TM-85894] 15 p2255 N84-24540
Development and flight test of a helicopter compact, portable, precision landing system concept
[NASA-TM-85951] 15 p2259 N84-24566
Highly integrated digital engine control system on an F-15 airplane
[NASA-TM-86040] 15 p2262 N84-24587
Preliminary flight test results of the F100 EMD engine in an F-15 airplane
[NASA-TM-85902] 15 p2262 N84-24588
Spinning disk calibration method and apparatus for laser Doppler velocimeter
[NASA-CASE-ARC-11510-1] 15 p2335 N84-25015
Optical measurements of fluctuating temperatures in a supersonic turbulent flow using one- and two-photon, laser-induced fluorescence
[NASA-TM-85949] 15 p2336 N84-25020
Acoustic measurements of a full-scale rotor with four tip shapes. Volume 2: Appendices C, D, E and F
[NASA-TM-85878-VOL-2] 15 p2403 N84-25426
A hardware/software simulation for the video tracking system of the Kuiper Airborne Observatory telescope
[NASA-TM-85896] 15 p2424 N84-25562
V/STOL concepts in the United States: Past, present, and future 16 p2436 N84-25628
V/STOL maneuverability and control 16 p2437 N84-25632
V/STOL wind-tunnel testing 16 p2437 N84-25633
Assessment of aerodynamic performance of V/STOL and STOVL fighter aircraft 16 p2437 N84-25636
Nonlinear problems in flight dynamics
[NASA-TM-85940] 16 p2439 N84-25648
Recent developments in multigrid methods for the steady Euler equations 16 p2492 N84-25988
Optical system with reflective baffles
[NASA-CASE-ARC-11502-1] 16 p2557 N84-26400
The composition of interstellar grain mantles 16 p2570 N84-26490
New infrared observations of IRS1, IRS3 and the adjacent nebula in the OMC-2 cluster 16 p2572 N84-26506
Far-IR selected star formation regions
[NASA-TM-85955] 16 p2574 N84-26521
183 GHz water line variation: An energetic outburst in orion KL
[NASA-TM-85956] 16 p2574 N84-26522
Detection of shocked atomic gas in the Kleinmann-Low nebula
[NASA-TM-85967] 16 p2574 N84-26523
NGC 2024: Far-infrared and radio molecular observations
[NASA-TM-85954] 16 p2575 N84-26524
The energetics and mass structure of regions of star formation
[NASA-TM-85953] 16 p2575 N84-26525
The nature of AFGL 2591 and its associated molecular outflow: Infrared and millimeter-wave observations
[NASA-TM-85963] 16 p2575 N84-26526
A computational method for viscous incompressible flows
[NASA-TM-85958] 17 p2600 N84-26664
A solution procedure for three-dimensional incompressible Navier-Stokes equation and its application
[NASA-TM-85978] 17 p2600 N84-26666
An analysis of rotor blade twist variables associated with different Euler sequences and pretwist treatments
[NASA-TM-84394] 17 p2606 N84-26693
Fan blade shake test results for the 40- by 80-foot/80- by 120-foot wind tunnel
[NASA-TM-85859] 17 p2618 N84-26753
W3 North: Far-infrared and radio molecular observations
[NASA-TM-85961] 17 p2774 N84-27615
Application of supercomputers to computational aerodynamics
[NASA-TM-85965] 18 p2785 N84-27680

Numerical optimization design of advanced transonic wing configurations
[NASA-TM-85950] 18 p2792 N84-27718
Evaluation of HiMAT aircraft landing approach lateral control gearing using simulation and a visual display
[NASA-TM-84916] 18 p2796 N84-27743
Thermal response of Space Shuttle wing during reentry heating
[NASA-TM-85907] 18 p2802 N84-27785
Metal phthalocyanine polymers
[NASA-CASE-ARC-11405-1] 18 p2817 N84-27884
Design considerations for a HE-3 refrigerator for space applications
[NASA-TM-85973] 18 p2836 N84-28001
Method for the preparation of thin-skinned asymmetric reverse osmosis membranes and products thereof
[NASA-CASE-ARC-11359-1] 18 p2894 N84-28361
NASA-Ames Summer High School Apprenticeship Research Program (SHARP)
[NASA-TM-85554] 18 p2943 N84-28661
Grain destruction in interstellar shocks 18 p2947 N84-28685
The composition of interstellar grain mantles 18 p2947 N84-28688
New infrared observations of IRS1, IRS3, and the adjacent nebula in the OMC-2 cluster 18 p2950 N84-28705
Proceedings of the Large Deployable Reflector Science and Technology Workshop. Volume 1: Executive Summary
[NASA-CP-2275-VOL-1] 18 p2950 N84-28709
A practical adaptive-grid method for complex fluid-flow problems
[NASA-TM-85989] 19 p2958 N84-28745
Numerical simulation of boundary-layer transition
[NASA-TM-85984] 19 p2958 N84-28746
A numerical simulation of three-dimensional flow in an adaptive wall wind tunnel
[NASA-TP-2351] 19 p2958 N84-28750
Improving the efficiency of smaller transport aircraft
[NASA-TM-85992] 19 p2963 N84-28780
Preliminary flight evaluation of F100 engine model derivative airstart capability in an F-15 airplane
[NASA-TM-86031] 19 p2965 N84-28792
A review of US Army aircrew-aircraft integration research programs
[NASA-TM-85947] 19 p2968 N84-28809
Application of the implicit MacCormack scheme to the parabolized Navier-Stokes equations
[NASA-CR-166579] 19 p3020 N84-29148
Uniform apparent contrast noise: A picture of the noise of the visual contrast detection system
[NASA-TM-85867] 19 p3067 N84-29456
Understanding a technical language: A scheme-based approach
[NASA-TM-85868] 19 p3070 N84-29478
Study of the mapping of Navier-Stokes algorithms onto multiple-instruction/multiple-data-stream computers
[NASA-TM-85945] 19 p3080 N84-29544
An efficient approximate factorization implicit scheme for the equations of gasdynamics
[NASA-TM-85957] 19 p3082 N84-29556
A comparison of wind tunnels suitable for rotorcraft noise studies 19 p3096 N84-29665
Rotary wing aerodynamically generated noise 19 p3097 N84-29668
Experiment versus theory 19 p3098 N84-29679
Aerodynamic prediction I 19 p3098 N84-29680
Aerodynamic predictions II 19 p3098 N84-29681
Effect of boattail geometry on the acoustics of parallel baffles in ducts
[NASA-TM-85981] 19 p3099 N84-29686
A method for three-dimensional modeling of wind-shear environments for flight simulator applications
[NASA-TM-85969] 20 p3127 N84-29857
Flight characteristics of a manned, low-speed, controlled deep stall vehicle
[NASA-TM-86041] 20 p3128 N84-29863
Effect of control logic modifications on airstart performance of F100 engine model derivative engines in an F-15 airplane
[NASA-TM-85900] 20 p3130 N84-29879
Flight investigation of various control inputs intended for parameter estimation
[NASA-TM-85901] 20 p3131 N84-29884
Simulator evaluation of a remotely piloted vehicle lateral landing task using a visual display
[NASA-TM-85903] 20 p3131 N84-29885
Elliptic grid generation for three-dimensional geometries 20 p3168 N84-30117
Viscous computation of a space shuttle flow field
[NASA-TM-85977] 20 p3183 N84-30225
He-3 cooling systems for space
[NASA-TM-85985] 20 p3183 N84-30226
Assessment of Thematic Mapper band-to-band registration by the block correlation method 20 p3210 N84-30396
Impact of LANDSAT MSS sensor differences on change detection analysis 20 p3212 N84-30408
The effect of spatial, spectral and radiometric factors on classification accuracy using thematic mapper data
[NASA-TM-85995] 20 p3227 N84-30510
The influence of a wind tunnel on helicopter rotational noise: Formulation of analysis
[NASA-TM-85982] 20 p3290 N84-30887
Computational aerodynamics and artificial intelligence
[NASA-TM-85994] 21 p3324 N84-31089
Development and application of an analysis of axisymmetric body effects on helicopter rotor aerodynamics using modified slender body theory
[NASA-TM-85934] 21 p3324 N84-31090
Unsteady transonic aerodynamic and aeroelastic calculations about airfoils and wings
[NASA-TM-85986] 21 p3324 N84-31092
Potential application of artificial concepts to aerodynamic simulation
[NASA-TM-85976] 21 p3324 N84-31093
Comparison of the full potential and Euler formulations for computing transonic airfoil flows
[NASA-TM-85983] 21 p3324 N84-31094
Software modifications to the Demonstration Advanced Avionics Systems (DAAS)
[NASA-TM-85942] 21 p3327 N84-31105
Results of the first complete static calibration of the RSRA rotor-load-measurement system
[NASA-TP-2327] 21 p3328 N84-31111
Software control and system configuration management: A systems-wide approach
[NASA-TM-85908] 21 p3328 N84-31112
Fuel conservative guidance concept for shipboard landing of powered-lift aircraft
[NASA-TM-85971] 21 p3344 N84-31215
Calculation of boundary layers of oscillating airfoils
[NASA-TM-85943] 21 p3398 N84-31554
Optical stark effect in the 2-photon spectrum of NO
[NASA-TM-85964] 21 p3492 N84-32131
Large Deployable Reflector Science and Technology Workshop. Volume 3: Systems and Technology Assessment
[NASA-CP-2275-VOL-3] 21 p3523 N84-32318
Large Deployable Reflector Science and Technology Workshop. Volume 3: Systems and technology assessment. Introduction 21 p3523 N84-32319
Technology Panel reports 21 p3523 N84-32320
Large Deployable Reflector Science and Technology Workshop. Volume 3: Systems and technology assessment. Conclusions 21 p3523 N84-32321
Studies of low-mass star formation with the large deployable reflector
[NASA-TM-85960] 21 p3524 N84-32328
Improvements in the accuracy and stability of algorithms for the small-disturbance and full-potential equations applied to transonic flows
[NASA-TM-85970] 22 p3530 N84-32350
Simulation of transonic separated airfoil flow by finite difference viscous-inviscid interaction
[NASA-TM-85980] 22 p3531 N84-32358
Computer studies of hybrid-slotted working sections with minimum interference at subsonic speeds
[NASA-TM-86002] 22 p3535 N84-32379
A mathematical simulation model of the CH-47B helicopter, volume 2
[NASA-TM-84351] 22 p3535 N84-32380
NASA rotor system research aircraft flight-test data report: Helicopter and compound configuration
[NASA-TM-85843] 22 p3535 N84-32381
Air data position-error calibration using state reconstruction techniques
[NASA-TM-86029] 22 p3535 N84-32384
A flight-test and simulation evaluation of the longitudinal final approach and landing performance of an automatic system for a light wing loading STOL aircraft equipped with wing spoilers
[NASA-TM-85873] 22 p3537 N84-32393
Minimum-fuel, 3-dimensional flightpath guidance of transfer jets
[NASA-TP-2326] 22 p3537 N84-32394
Synthesis and characterization of phosphorus-containing polyamides and copolyamides based on 1methyl]-2,4- and -2,6-diaminobenzenes
[NASA-TM-85877] 22 p3543 N84-32431
Hygrothermal effects on mechanical behavior of graphite/epoxy laminates beyond initial failure
[NASA-TM-86001] 22 p3544 N84-32438
Superfluid helium 2 liquid-vapor phase separation: Technology assessment
[NASA-TM-85966] 22 p3593 N84-32752
The structure of the vorticity field in turbulent channel flow. Part 1: Analysis of instantaneous fields and statistical correlations
[NASA-TM-86019] 22 p3593 N84-32753
Shoulder and hip joint for hard space suits and the like
[NASA-CASE-ARC-11534-1] 22 p3633 N84-33021
Second- and third-order upwind difference schemes for hyperbolic conservation laws
[NASA-TM-85959] 22 p3644 N84-33106
Strategies for converting to a DBMS environment 22 p3671 N84-33267
NASA Ames summary high school apprenticeship research program, 1983 research papers
[NASA-TM-85931] 22 p3684 N84-33365
Trends in computational capabilities for fluid dynamics
[NASA-TM-86012] 23 p3689 N84-33383
Fire blocking systems for aircraft seat cushions
[NASA-CASE-ARC-11423-1] 23 p3691 N84-33394
Hover test of a full-scale hingeless rotor
[NASA-TM-85990] 23 p3692 N84-33401
Propulsion control experience used in the Highly Integrated Digital Electronic Control (HIDEC) program
[NASA-TM-85914] 23 p3695 N84-33415
The effect of spatial, spectral and radiometric factors on classification accuracy using Thematic Mapper data 23 p3766 N84-33872
Sensitivity of bone cell populations to weightlessness and simulated weightlessness 23 p3809 N84-34151
A cryogenically cooled, multidetector spectrometer for infrared astronomy
[NASA-TM-86004] 23 p3840 N84-34359
Saturn's rings: 3-mm low-inclination observations and derived properties
[NASA-TM-87363] 23 p3844 N84-34387
The development of an airborne instrumentation computer system for flight test 24 p3851 N84-34421
Identification and verification of frequency-domain models for XV-15 tilt-rotor aircraft dynamics
[NASA-TM-86009] 24 p3856 N84-34445
Three-dimensional laser Doppler anemometer measurements of a jet in a crossflow
[NASA-TM-85997] 24 p3900 N84-34695
Enthalpy damping for the steady Euler equations
[NASA-TM-86008] 24 p3950 N84-35009

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION. HUGH L. DRYDEN FLIGHT RESEARCH CENTER, EDWARDS, CALIF.

The use of oil for in-flight flow visualization
[NASA-TM-84915] 05 p0627 N84-14122
X-29 flight-research program
[NASA-TM-86025] 07 p0951 N84-16168
Flight test experience with pilot-induced-oscillation suppression filters
[NASA-TM-86028] 07 p0958 N84-16213
In-flight load testing of advanced shuttle thermal protection systems
[NASA-TM-86024] 08 p1115 N84-17250
Flight evaluation of the DEEC secondary control air-start capability
[NASA-TM-84910] 09 p1257 N84-18203
Effect of creep in titanium alloy Ti-6Al-4V at elevated temperature on aircraft design and flight test
[NASA-TM-86033] 09 p1330 N84-18685
Evaluation of a flow direction probe and a pitot-static probe on the F-14 airplane at high angles of attack and sideslip
[NASA-TM-84911] 11 p1606 N84-20514
Space shuttle pilot-induced-oscillation research testing
[NASA-TM-86034] 11 p1615 N84-20566
Flying qualities criteria for superaugmented aircraft 11 p1615 N84-20569
Practical aspects of modeling aircraft dynamics from flight data 11 p1616 N84-20575
AFTI/F-16 digital flight control system experience 11 p1619 N84-20592
The role of simulation in the development and flight test of the HiMAT vehicle
[NASA-TM-84912] 12 p1769 N84-21537
Preliminary experience with a stereoscopic video system in a remotely piloted aircraft application
[NASA-TM-84909] 13 p1931 N84-22557
Acoustic flight testing of advanced design propellers on a JetStar aircraft 18 p2783 N84-27661
F-111 TACT natural laminar flow glove flight results 18 p2783 N84-27662
KC-135 Winglet Program Review
[NASA-CP-2211] 18 p2787 N84-27686
KC-135 winglet program overview 18 p2787 N84-27687
KC-135 wing and winglet flight pressure distributions, loads, and wing deflection results with some wind tunnel comparisons 18 p2787 N84-27688
In-flight lift and drag measurements on a first generation jet transport equipped with winglets 18 p2787 N84-27689

KC-135A winglet flight flutter program
18 p2788 N84-27692
Preliminary flight evaluation of F100 engine model derivative airstart capability in an F-15 airplane
[NASA-TM-86031] 19 p2965 N84-28792
Software control and system configuration management: A systems-wide approach
[NASA-TM-85908] 21 p3328 N84-31112
The development of an airborne instrumentation computer system for flight test 24 p3851 N84-34421

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION. EARTH RESOURCES LABS., BAY ST. LOUIS, MISS.

Land cover change monitoring within the east central Louisiana study site: A case for large area surveys with LANDSAT multispectral scanner data
[E84-10031] 02 p0238 N84-11562
Earth Resources Laboratory research and technology
[E84-10033] 03 p0395 N84-12576
A correlation analysis of percent canopy closure versus TMS spectral response for selected forest sites in the San Juan National Forest, Colorado
[E84-10066] 06 p0865 N84-15635
Analysis of data acquired by synthetic aperture radar over Dade County, Florida, and Acadia Parish, Louisiana
[E84-10067] 06 p0865 N84-15636
Classification and area estimation of land covers in Kansas using ground-gathered and LANDSAT digital data
[E84-10068] 06 p0865 N84-15637
An initial analysis of LANDSAT 4 Thematic Mapper data for the classification of agricultural, forested wetland, and urban land covers
[E84-10073] 07 p1020 N84-16620
Parametric analysis of synthetic aperture radar data acquired over truck garden vegetation
23 p3767 N84-33878

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION. FLIGHT RESEARCH CENTER, EDWARDS, CALIF.

Inflatable device for installing strain gage bridges
[NASA-CASE-FRC-11068-1] 03 p0375 N84-12443

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION. GODDARD INST. FOR SPACE STUDIES, NEW YORK.

Molecular clouds and galactic spiral structure
[NASA-TP-2288] 10 p1595 N84-20457
Three dimensional global modeling of atmospheric CO2
[NASA-TM-85444] 12 p1847 N84-22043
Vegetation, land-use and seasonal albedo data sets: Documentation of archived data tape
[E84-10133] 15 p2357 N84-25142
Geological rhythms and cometary impacts
[NASA-TM-86116] 21 p3524 N84-32327

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION. GODDARD SPACE FLIGHT CENTER, GREENBELT, MD.

Hy-wire and fast electric field change measurements near an isolated thunderstorm, appendix C
[NASA-TM-85072] 01 p0107 N84-10692
Antartic sea ice, 1973 - 1976: Satellite passive-microwave observations
[NASA-SP-459] 01 p0110 N84-10718
Rapid X-ray variability of active galaxies
[NASA-TM-85101] 01 p0165 N84-11082
Circinus X-1: A laboratory for studying the accretion phenomenon in compact binary X-ray sources
[NASA-TM-85095] 01 p0165 N84-11083
Saturn's outer magnetosphere
[NASA-TM-85105] 01 p0165 N84-11084
Report on active and planned spacecraft and experiments
[NASA-TM-85455] 02 p0183 N84-11187
Orbit determination and prediction study for Dynamic Explorer 2
[NASA-TM-85098] 02 p0183 N84-11192
Effects of vegetation canopy on the radar backscattering coefficient
[NASA-TM-85070] 02 p0208 N84-11359
Geodynamics Branch research report, 1982
[NASA-TM-85078] 02 p0233 N84-11527
Aircraft remote sensing of soil moisture and hydrologic parameters, Taylor Creek, Florida, and Little River, Georgia, 1979 data report
[E84-10010] 02 p0236 N84-11548
Passive microwave sensing of soil moisture content: Soil bulk density and surface roughness
[E84-10019] 02 p0237 N84-11556
On gravity from SST, geoid from SEASAT, and plate age and fracture zones in the Pacific
[E84-10025] 02 p0238 N84-11559
Predictability of time averages: The influence of the boundary forcing
[NASA-TM-85092] 02 p0248 N84-11624
Application of the Lienard-Wiechert solution to a lightning return stroke model
[NASA-TM-85082] 02 p0253 N84-11658
Forecasting tropical cyclone recurvature with upper tropospheric winds
[NASA-TM-85114] 02 p0253 N84-11659
Report of the first Nimbus-7 SMMR Experiment Team Workshop
[NASA-TM-85093] 02 p0257 N84-11684
Real-time 3-D X-ray and gamma-ray viewer
[NASA-CASE-GSC-12640-1] 02 p0293 N84-11920
Determining the alpha dynamo parameter in incompressible homogeneous magnetohydrodynamic turbulence
[NASA-TM-85110] 02 p0295 N84-11936
Documentation for the machine-readable version of the Fourth Cambridge Radio Survey Catalogue (4C) (Pilkington, Gower, Scott and Wills 1965, 1967)
[NASA-TM-85456] 02 p0305 N84-12002
Documentation for the machine-readable version of the revised Catalogue of Stellar Rotational Velocities of Uesugi and Fukuda (1982)
[NASA-TM-85457] 02 p0305 N84-12003
Self-consistent models for Coulomb heated X-ray pulsar atmospheres
[NASA-TM-85087] 02 p0307 N84-12012
Shuttle measured contaminant environment and modeling for payloads. Preliminary assessment of the space telescope environment in the shuttle bay
[NASA-TM-85111] 03 p0341 N84-12216
GSFC flywheel status 03 p0344 N84-12230
Combined attitude control and energy storage
03 p0345 N84-12237
Magnetic bearings for inertial energy storage
03 p0345 N84-12242
Assessment of potential for batteries in space applications 03 p0346 N84-12246
Holding fixture for a hot stamping press
[NASA-CASE-GSC-12619-1] 03 p0382 N84-12491
Unidirectional flexural pivot
[NASA-CASE-GSC-12622-1] 03 p0383 N84-12492
Crustal deformation, the earthquake cycle, and models of viscoelastic flow in the asthenosphere
[NASA-TM-85117] 03 p0407 N84-12662
Scale lengths in quasi-parallel shocks
[NASA-TM-85109] 03 p0407 N84-12663
Luminosity enhancement in relativistic jets and altered luminosity functions for beamed objects
[NASA-TM-85053] 03 p0440 N84-12889
Development of a segmented n-type germanium detector, and its application to astronomical gamma-ray spectroscopy
[NASA-TM-85435] 03 p0461 N84-13039
Spectral analysis of magnetohydrodynamic fluctuations near interplanetary schocks
[NASA-TM-85119] 03 p0462 N84-13044
Radial variations of large-scale magnetohydrodynamic fluctuations in the solar wind
[NASA-TM-85116] 03 p0463 N84-13045
Boundary layers in cataclysmic variables: The HEAO-1 X-ray constraints
[NASA-TM-85112] 03 p0463 N84-13046
The structure of the plasma sheet-lobe boundary in the Earth's magnetotail
[NASA-TM-85434] 03 p0463 N84-13049
Interpretation of 3He variations in the solar wind
[NASA-TM-85049] 03 p0466 N84-13065
Magnetohydrodynamic turbulence in the solar wind
03 p0467 N84-13073
The collapse of the local, Spitzer-Haerm formulation and a global-local generalization for heat flow in an inhomogeneous, fully ionized plasma
03 p0468 N84-13080
Radio evidence for interplanetary streamers in the range 10-170 solar radii 03 p0471 N84-13103
The relative abundance of 3He(++) in the solar wind
03 p0473 N84-13111
Velocity profiles of interplanetary shocks
03 p0474 N84-13122
Interaction of the plasma tail of comet Bradfield 1979L on 1980 February 6 with a possibly flare-generated solar-wind disturbance 03 p0475 N84-13126
Analysis of multispectral scanner (MSS) and Thematic Mapper (TM) performance (pre-launch and post-launch)
[E84-10043] 04 p0552 N84-13636
Postglacial rebound observed by Lageos and the effective viscosity of the lower mantle
[NASA-TM-84982] 04 p0562 N84-13705
Rain estimation from satellites: An examination of the Griffith-Woodley technique
[NASA-TM-84969] 04 p0566 N84-13735
Soft X-ray spectral observations of quasars and high X-ray luminosity Seyfert galaxies
[NASA-TM-85118] 04 p0619 N84-14082
Characteristics of gamma-ray line flares
[NASA-CR-174608] 04 p0621 N84-14098
Cosmic ray antimatter and baryon symmetric cosmology
[NASA-TM-83958] 04 p0622 N84-14103
Tuned analog network
[NASA-CASE-GSC-12650-1] 05 p0673 N84-14421
Thermal control system
[NASA-CASE-GSC-12771-1] 05 p0678 N84-14461
Laser Resonator
[NASA-CASE-GSC-12565-1] 05 p0686 N84-14509
The Heat Capacity Mapping Mission (HCMM) anthology
[E84-10051] 05 p0695 N84-14563
Introduction: Historical perspective on the HCMM program 05 p0695 N84-14564
Principles of thermal remote sensing
05 p0695 N84-14565
Interpretation of HCMM images: A regional study
05 p0696 N84-14566
A gallery of HCMM images 05 p0696 N84-14567
Significant results from the HCMM program
05 p0696 N84-14568
Summary and overview 05 p0696 N84-14569
The HCMM system: Development and performance
05 p0696 N84-14570
LANDSAT-4 sensor performance
[E84-10053] 05 p0697 N84-14573
Refrigeration for Cryogenic Sensors
[NASA-CP-2287] 06 p0818 N84-15327
NASA needs and trends in cryogenic cooling
06 p0818 N84-15329
Design of an adiabatic demagnetization refrigerator for studies in astrophysics 06 p0821 N84-15352
Analysis of a high-frequency Stirling Cycle compressor for cryogenic cooling in space
[NASA-TM-85066] 06 p0852 N84-15555
A NASTRAN DMAP procedure for calculation of base excitation modal participation factors
06 p0859 N84-15599
Spectral characterization of the LANDSAT thematic mapper sensors
[E84-10065] 06 p0865 N84-15634
Remote sensing of atmospheric pressure and sea state from satellites using short-pulse multicolor laser altimeters 06 p0872 N84-15674
Pilot climate data system: A state-of-the-art capability in scientific data management
[NASA-TM-85115] 06 p0881 N84-15731
Thermal electron heating rate: A derivation
[NASA-TM-85124] 06 p0914 N84-15941
Comment on the extinct paradox
[NASA-TM-85113] 06 p0917 N84-15958
Optical multiple sample vacuum integrating sphere
[NASA-CASE-GSC-12849-1] 06 p0917 N84-15960
Decimetric gyrosynchrotron emission during a solar flare
[NASA-TM-85123] 06 p0940 N84-16107
Turbulent heating in solar cosmic ray theory
[NASA-TM-85074] 06 p0940 N84-16108
Thermally induced spin rate ripple on spacecraft with long radial appendages
[NASA-TM-85058] 07 p0964 N84-16249
High stability buffered phase comparator
[NASA-CASE-GSC-12645-1] 07 p0996 N84-16454
The effects of vegetation and soil hydraulic properties on passive microwave sensing of soil moisture: Data report for the 1982 fiels experiments
[NASA-TM-85106] 07 p1023 N84-16633
User's guide for SBUV/TOMS ozone derivative products
[NASA-RP-1116] 07 p1036 N84-16720
Saturn's ionosphere: Inferred electron densities
[NASA-TM-85121] 07 p1092 N84-17102
Voyager observations of Jovian millisecond radio bursts
[NASA-TM-86052] 07 p1093 N84-17109
Gamma-burst emission from neutron-star accretion
[NASA-TM-85436] 07 p1094 N84-17112
Thermal energy management process experiment
08 p1110 N84-17222
Probe measurement of DC electric fields
08 p1116 N84-17255
Interaction of the space shuttle orbiter with the ionospheric plasma 08 p1117 N84-17265
Impact ionization effects on Pioneer Venus Orbiter
08 p1118 N84-17270
Models of the hard X-ray spectrum of AM Herculis and implications for the accretion rate
[NASA-TM-86045] 08 p1242 N84-18123
Power spectral signatures of interplanetary corotating and transient flows
[NASA-TM-86051] 08 p1244 N84-18131
Milgrom's revision of cosmic dynamics: Amending Newton's laws or Keplers?
[NASA-TM-86049] 08 p1244 N84-18132

Interplanetary flow systems associated with cosmic ray modulation in 1977 - 1980
[NASA-TM-85120] 08 p1246 N84-18149
Rapporteur paper for sessions MG1, MG3 and MG4: Modulation theory, interplanetary propagation and interplanetary acceleration
[NASA-TM-86047] 08 p1247 N84-18150
A study of the diffuse galactic gamma radiation
[NASA-TM-86055] 08 p1247 N84-18151
The ISPM solar-wind ion composition spectrometer
09 p1261 N84-18232
The ISPM unified radio and plasma wave experiment
09 p1262 N84-18237
Performance appraisal of VAS radiometry for GOES-4, -5 and -6
[NASA-TM-85125] 09 p1344 N84-18781
Primer for the Transportable Applications Executive
[NASA-TM-86062] 09 p1367 N84-18921
On the maximum-entropy/autoregressive modeling of time series
[NASA-TM-86057] 09 p1372 N84-18961
Goddard Space Flight Center contributions to the University of California, Santa Cruz Summer Workshop on High Energy Transients
[NASA-TM-86050] 09 p1406 N84-19186
Neutrons and gamma rays from solar flares
09 p1406 N84-19187
Gamma ray bursts: A 1983 overview
09 p1406 N84-19188
The spectral properties of gamma-ray bursts: A review of recent development 09 p1406 N84-19189
Frequency of fast, narrow gamma-ray bursts and burst classification 09 p1407 N84-19190
Equilibria in strongly magnetized pair plasmas
09 p1407 N84-19191
Implications of the three GRB optical flashes
09 p1407 N84-19192
The rapidly moving telescope: An instrument for the precise study of optical transients
09 p1407 N84-19193
Spectral variability in early-type binary X-ray systems
[NASA-TM-86060] 09 p1407 N84-19195
A balloon-borne high-resolution spectrometer for observations of gamma-ray emission from solar flares
[NASA-TM-86069] 09 p1416 N84-19266
Spacelab Data Processing Facility
[NASA-TM-85556] 10 p1435 N84-19362
Recent and planned developments at the Goddard Space Flight Center in thermal control technology
10 p1440 N84-19402
The 12 micron band of ethane: A spectral catalog from 765 cm(-1) to 900 cm(-1)
[NASA-TM-85108] 10 p1454 N84-19493
L band push broom microwave radiometer: Soil moisture verification and time series experiment Delmarva Peninsula
[E84-10084] 10 p1520 N84-19955
Radar response from vegetation with nodal structure
[E84-10085] 10 p1520 N84-19956
CYBER 200 Applications Seminar
[NASA-CP-2295] 10 p1558 N84-20208
Computer simulations of space-borne meteorological systems on the CYBER 205 10 p1558 N84-20210
Research and technology, fiscal year 1983
[NASA-TM-85557] 10 p1592 N84-20434
Method of coating a substrate with a rapidly solidified metal
[NASA-CASE-GSC-12880-1] 11 p1632 N84-20670
Topics in the optimization of millimeter-wave mixers
[NASA-TP-2287] 11 p1645 N84-20758
Longwave radiation parameterization for UCLA/GLAS GCM
[NASA-TM-86072] 11 p1681 N84-20971
RAMIS DBMS update 11 p1748 N84-21407
Quantitative evaluation of 3 DBMS: ORACLE, SEED AND INGRES 11 p1748 N84-21410
Automated administrative data bases
11 p1749 N84-21411
NASA-wide standard administrative systems
11 p1749 N84-21415
DBMS as a tool for project management
11 p1749 N84-21416
Use of DBMS in multi-step information systems for LANDSAT 11 p1749 N84-21417
The case for antiparticles in the extragalactic cosmic radiation
[NASA-TM-86070] 11 p1760 N84-21487
Optical characteristics of young quasars as sources of the cosmic X-ray background
[NASA-TM-85069] 11 p1760 N84-21488
Fundamental remote sensing science research program. Part 1: Scene radiation and atmospheric effects characterization project
[NASA-TM-86078] 12 p1830 N84-21929
NASA fundamental remote sensing science research program 12 p1830 N84-21930
Comprehensive understanding for vegetated scene radiance relationships 12 p1830 N84-21933
Atmospheric effects on remote sensing of the Earth's surface 12 p1832 N84-21943
Comprehensive understanding for vegetated scene radiance relationships 12 p1833 N84-21947
Sea surface temperatures from the Nimbus-7 scanning multichannel microwave radiometer
12 p1835 N84-21963
A statistical method to sense sea surface temperature from the Nimbus-7 scanning multichannel microwave radiometer 12 p1835 N84-21964
Measurement of sea surface temperature from HIRS2/MSU 12 p1836 N84-21966
Research Review, 1983
[NASA-TM-86053] 12 p1850 N84-22049
Simulation studies of proposed observing systems and their impact on numerical weather prediction
12 p1850 N84-22050
Evaluation of glass model precipitation forecasts for North America during SOP-1 12 p1850 N84-22051
Observing system simulation experiments related to space-borne Lidar wind profiling. Part 1: Forecast impacts of highly idealized observing systems
12 p1850 N84-22052
Observing system simulation experiments related to space-borne Lidar wind profiling. Part 2: Sensitivity to atmospheric and instrumental influences
12 p1850 N84-22053
FGGE data impact studies in the Southern Hemisphere 12 p1850 N84-22054
SASS wind forecast impact studies using the GLAS and NEPRF systems: Preliminary conclusions
12 p1851 N84-22055
Regional correlation between TOMS total ozone from NIMBUS-7 satellite and geopotential height from the GLAS analysis 12 p1851 N84-22056
Comparison of AMSU temperature soundings with those produced by HIRS and AMTS 12 p1851 N84-22057
Water vapor profile retrieval simulation studies for the HIRS/MSU and AMTS/MSU sounders
12 p1851 N84-22058
Results of the joint NASA/NOAA AMTS/HIRS2 sounding simulation test 12 p1851 N84-22059
Improved HIRS2/MSU soundings using tropopause information 12 p1851 N84-22060
Comparison of GLAS retrieved cloud fields with model generated rainfall fields 12 p1851 N84-22061
High resolution GLAS on the MCIDAS
12 p1852 N84-22062
A new algorithm for tuning of computed radiances for HIRS2/MSU 12 p1852 N84-22063
The prediction of tropopause height from clusters of brightness temperatures and its application in the stratified regression temperature retrievals using microwave and infrared satellite measurements
12 p1852 N84-22064
Applications of cluster analysis to satellite soundings
12 p1852 N84-22065
Effect of high latitude filtering on NWP skill
12 p1852 N84-22066
The effect of compact implicit differencing in a baroclinic primitive equations model 12 p1852 N84-22067
A Lagrangian method for a two layer shallow water model 12 p1853 N84-22068
Multivariate optimum interpolation of surface pressure and winds over oceans 12 p1853 N84-22069
Design of a linear projector for use with the normal modes of the GLAS 4th order GCM
12 p1853 N84-22070
Computational aspects of the nonlinear normal mode initialization of the GLAS 4th order GCM
12 p1853 N84-22071
A user friendly operating system for the GLAS 4th order forecast-analysis system 12 p1853 N84-22072
Empirically derived second order schemes for the advection equations with minimum dissipation and dispersion errors 12 p1853 N84-22073
On the effect of using the Shapiro filter to smooth winds on a sphere 12 p1853 N84-22074
Lagged average forecasting, some operational considerations 12 p1854 N84-22075
Application of augmented-Lagrangian methods in meteorology: Comparison of different conjugate-gradient codes for large-scale minimization
12 p1854 N84-22076
Predictability experiments using a low order empirically corrected dynamical model 12 p1854 N84-22077
Investigation of the equatorial orographic-dynamic mechanism applying the bounded derivative method
12 p1854 N84-22078
Postprocessing for the UCLA climate model
12 p1854 N84-22079
The growth, propagation and decay of global scale Rossby waves during FGGE 12 p1854 N84-22080
Interannual variability of Indian monsoon rainfall
12 p1855 N84-22081
The simulation of transient statistics of the Southern Hemispheric circulation by the GLAS seasonal cycle model: Preliminary results 12 p1855 N84-22082
Localized blocking accounted for by slow variations of the zonal driving 12 p1855 N84-22083
Teleconnection patterns in the Southern Hemisphere
12 p1855 N84-22084
Ocean fluxes simulated by the GLAS GCM
12 p1855 N84-22085
On the role of the transient eddies in maintaining the seasonal mean circulation 12 p1855 N84-22086
Two contrasting Northern Hemisphere winters: 1980 - 1981 and 1981 - 1982 12 p1855 N84-22087
Prospects for improvement of zonal mean temperatures in the UCLA general circulation model
12 p1856 N84-22088
Forced stationary solutions in a barotropic channel: Multiple equilibria and theory of nonlinear resonance
12 p1856 N84-22089
Stratocumulus simulations with a general circulation model 12 p1856 N84-22090
Climate sensitivity with a seasonal cycle energy balance model 12 p1856 N84-22091
Design for and efficient dynamic climate model with realistic geography 12 p1856 N84-22092
Design of coupled ocean-atmosphere experiments
12 p1856 N84-22093
Long-term dynamical stability and transition in a spectral model 12 p1856 N84-22094
Diagnosis of the GLAS climate model's stationary planetary waves using a linearized steady state model
12 p1856 N84-22095
Horizontal energy propagation in a baroclinic atmosphere with meridional and zonal structure
12 p1857 N84-22096
Development and preliminary tests of a new long-wave radiation parameterization 12 p1857 N84-22097
Simulations of the stratocumulus-topped boundary layer with a third-order closure model
12 p1857 N84-22098
Problems with the process partitioning theory of stratocumulus entrainment 12 p1857 N84-22099
Can cloud-top entrainment promote cloud growth?
12 p1857 N84-22100
On the bimodality of temperature and moisture near stratocumulus cloud tops 12 p1858 N84-22101
An ensemble formulation of PBL fluxes in a GCM
12 p1858 N84-22102
A note on the temporal behavior of bucket hydrologies
12 p1858 N84-22103
Time dependent land and vegetation canopy temperatures 12 p1858 N84-22104
A new parameterization of 15 micron radiative transfer for a GCM 12 p1858 N84-22105
GCM sensitivity to 1982 - 1983 equatorial Pacific sea surface temperature anomalies
12 p1858 N84-22106
Impact of prescribed diabatic heating on short range weather forecasts 12 p1858 N84-22107
The sensitivity of a general circulation model to Saharan dust heating 12 p1858 N84-22108
Influence of surface roughness of a desert
12 p1859 N84-22109
Role of soil moisture in maintaining droughts
12 p1859 N84-22110
A dynamical basis for the parameterization of organized deep convection in large-scale numerical models
12 p1859 N84-22111
Some properties of transient phenomena in the extra-tropical region and their importance in the seasonal mean flow 12 p1859 N84-22112
Low frequency variability and tropical-extratropical interactions 12 p1859 N84-22113
The influence of ground conductivity on the structure of RF radiation from return strokes
[NASA-TM-86065] 12 p1860 N84-22117
Detection of bump-on-tail reduced electron velocity distributions at the electron foreshock boundary
[NASA-TM-86067] 12 p1922 N84-22518
X-ray spectra and time variability of active galactic nuclei
[NASA-TM-86071] 12 p1922 N84-22519
The orbit of Lageos and solar eclipses
[NASA-TM-86076] 12 p1923 N84-22525
Navigation system and method
[NASA-CASE-GSC-12508-1] 13 p1929 N84-22546
Experimental investigation of the low NO/sub x vortex airblast annular combustor
[NASA-TM-83615] 13 p1932 N84-22567
Review of the effects of microstructure on fatigue in aluminum alloys
[NASA-TM-83626] 13 p1960 N84-22735
Low noise tuned amplifier
[NASA-CASE-GSC-12567-1] 13 p1985 N84-22887

Energetics of the magnetosphere, revised
[NASA-TM-86063] 13 p2010 N84-23041
Software Engineering Laboratory (SEL) data base reporting software user's guide and system description. Volume 1: Introduction and user's guide
[NASA-TM-85608] 13 p2025 N84-23129
Software Engineering Laboratory (SEL) data base reporting software user's guide and system description. Volume 2: Program descriptions
[NASA-TM-85609] 13 p2025 N84-23130
Glossary of Software Engineering Laboratory terms
[NASA-TM-85606] 13 p2026 N84-23135
An approach to software cost estimation
[NASA-TM-85607] 13 p2026 N84-23136
Proceedings of the Eighth Annual Software Engineering Workshop
[NASA-TM-85445] 13 p2026 N84-23137
Managers handbook for software development
[NASA-TM-85604] 13 p2028 N84-23150
Dual aperture multispectral Schmidt objective
[NASA-CASE-GSC-12756-1] 13 p2042 N84-23248
Documentation for the machine-readable version of a supplement to the Bright Star catalogue (Hoffleit, Saladyga and Wlasuk 1983)
[NASA-TM-85573] 13 p2070 N84-23415
Documentation for the machine-readable version of the catalogue of 20457 Star positions obtained by photography in the declination zone -48 deg to -54 deg (1950)
[NASA-TM-85572] 13 p2070 N84-23416
Documentation for the machine-readable version of a table of Redshifts for Abell clusters (Sarazin, Rood and Struble 1982)
[NASA-TM-85571] 13 p2070 N84-23417
Documentation for the machine-readable version of the SAO-HD-GC-DM cross index version 1983
[NASA-TM-85570] 13 p2071 N84-23418
Documentation for the machine-readable version of the Smithsonian Astrophysical Observatory Star catalogue (SAO) version 1984
[NASA-TM-85574] 13 p2071 N84-23419
Documentation for the machine-readable version of the general catalogue of 33342 stars for the epoch 1950 (Boss 1937)
[NASA-TM-85568] 13 p2071 N84-23420
Documentation for the machine-readable version of the Survey of the Astrographic Catalogue From 1 to 31 Degrees of Northern Declination (Fresneau 1983)
[NASA-TM-85569] 13 p2071 N84-23421
The reaction NH2 + PH3 yields NH3 + PH2: Absolute rate constant measurement and implication for NH3 and PH3 photochemistry in the atmosphere of Jupiter
[NASA-TM-85063] 13 p2072 N84-23430
Distribution and properties of small volcanoes in Acidalia Planitia 13 p2080 N84-23478
Development of baseline random vibration environment criteria for Shuttle pallet payload subsystems
[NASA-TM-86087] 14 p2113 N84-23666
Solar absorptance and thermal emittance of some common spacecraft thermal-control coatings
[NASA-RP-1121] 14 p2119 N84-23698
Thermal detectors as X-ray spectrometers
[NASA-TM-86092] 14 p2148 N84-23866
A comparison of numerical results of Arctic Sea ice modeling with satellite images 14 p2165 N84-23969
Arctic Sea ice by passive microwave observations from the Nimbus-5 Satellite 14 p2166 N84-23970
Microwave radiometer experiment of soil moisture sensing at BARC test site during summer 1981
[NASA-TM-86056] 14 p2168 N84-23989
Predictability of the Earth's polar motion
[NASA-TM-86095] 14 p2169 N84-23991
Documentation of the GLAS fourth order general circulation model. Volume 1: Model documentation
[NASA-TM-86064-VOL-1] 14 p2179 N84-24048
Documentation of the GLAS fourth order general circulation model. Volume 2: Scalar code
[NASA-TM-86064-VOL-2] 14 p2179 N84-24049
Documentation of the GLAS fourth order general calculation model. Volume 3: Vectorized code for the Cyber 205
[NASA-TM-86064-VOL-3] 14 p2179 N84-24050
ERB master archival tape specification no. T 134081 ERB MAT, revision 1
[NASA-TM-85612] 14 p2204 N84-24230
Acoustic-optic spectrometer. 1: Noise contributions and system consideration
[NASA-TM-85613] 14 p2221 N84-24326
An X-ray survey of variable radio bright quasars
[NASA-TM-86094] 14 p2250 N84-24512
Energetic electrons in impulsive solar flares
[NASA-TM-86102] 14 p2251 N84-24519
Low-temperature heat pipe experiment package (HEPP) for LDEF (S1001) 15 p2274 N84-24652
Solar-array-materials passive LDEF experiment (A0171) 15 p2274 N84-24656
Diffusely reflecting paints including polytetrafluoroethylene and method of manufacture
[NASA-CASE-GSC-12883-1] 15 p2300 N84-24806
Coated flexible laminate and method of its production
[NASA-CASE-GSC-12913-1] 15 p2301 N84-24807
Calculations of atmospheric transmittance in the 11 micrometer window for estimating skin temperature from VISSR infrared brightness temperatures
[NASA-TM-86105] 15 p2319 N84-24922
Multispectral linear array multiband selection device
[NASA-CASE-GSC-12911-1] 15 p2335 N84-25016
The 18th Aerospace Mechanisms Symposium
[NASA-CP-2311] 15 p2346 N84-25078
The design and development of a release mechanism for space shuttle life-science experiments 15 p2347 N84-25079
A passively controlled appendage deployment system for the San Marco D/L spacecraft 15 p2347 N84-25081
Design and test of a low-temperature liner driver/rate controller 15 p2347 N84-25083
Spacelab 4: Primate experiment support hardware 15 p2348 N84-25092
The electron Echo 6 mechanical deployment systems 15 p2348 N84-25094
Auroral kilometric radiation: Wave modes, harmonic and source region electron density structures
[NASA-TM-86101] 15 p2367 N84-25203
Modeling glacial climates
[NASA-TM-86106] 15 p2371 N84-25221
Facilities for meteorological research at NASA Goddard/Wallops Flight Facility
[NASA-TM-84422] 15 p2371 N84-25223
Pair production rates in mildly relativistic, magnetized plasmas
[NASA-TM-86103] 15 p2405 N84-25434
Optical scanner
[NASA-CASE-GSC-12897-1] 15 p2407 N84-25450
LHEA contributions to the Future of Ultraviolet Astronomy Based on Six Years of IUE Research
[NASA-TM-86098] 15 p2423 N84-25559
Ultraviolet and X-ray observations of active galactic nuclei: Constraints on models of the broad emission line region 15 p2423 N84-25560
Very recent IUE observations of 2 BL Lacertae orbits 15 p2424 N84-25561
Matter antimatter domains: A possible solution to the CP domain wall problem in the early universe
[NASA-TM-86100] 15 p2425 N84-25565
Acceleration of runaway electrons and Joule heating in solar flares
[NASA-TM-86112] 15 p2428 N84-25583
Correlated measurements of UHF radar signatures, RF radiation and electric field changes from lightning
[NASA-TM-84425] 16 p2481 N84-25907
Statistical correlation of structural mode shapes from test measurements and NASTRAN analytical values
[NASA-TM-86044] 16 p2501 N84-26054
Observations of the Earth's magnetic field from the Space Station: Measurement at high and extremely low altitude using Space Station-controlled free-flyers
[NASA-TM-86119] 16 p2521 N84-26183
Nimbus 7 SMMR derived seasonal variations in the water vapor, liquid water and surface winds over the global oceans
[NASA-TM-86080] 16 p2528 N84-26233
Measures and metrics for software development
[NASA-TM-85805] 16 p2543 N84-26323
Modification to shock fitting program
[NASA-TM-86097] 16 p2548 N84-26353
Particle acceleration by turbulent magnetohydro-dynamic reconnection
[NASA-TM-86121] 16 p2558 N84-26409
Technical publications of the NASA Wallops Flight Facility, 1980 through 1983
[NASA-TM-84421] 16 p2566 N84-26467
Far infrared supplement: Catalog of infrared observations
[NASA-RP-1119] 16 p2574 N84-26519
Catalog of infrared observations including: Bibliography of infrared astronomy and index of infrared source positions
[NASA-RP-1118] 16 p2574 N84-26520
Vibrational and rotational excitation of CO in comets. Part 1: Non-equilibrium calculations. Part 2: Results of the calculation for standard bright comet, comet Iras-Araki-Alcock and comet Halley
[NASA-TM-86122] 16 p2579 N84-26545
Coalescence of two pressure waves associated with stream interactions
[NASA-TM-86120] 16 p2581 N84-26554
Nuclear processes in the jets of SS433
[NASA-TM-86109] 16 p2582 N84-26560
Cosmic rays and the emission line regions of active galactic nuclei
[NASA-TM-86110] 16 p2582 N84-26561
TOPEX orbital radiation study
[NASA-TM-85447] 16 p2582 N84-26562
Spaceborne sensors (1983-2000 AD): A forecast of technology
[NASA-TM-86083] 17 p2616 N84-26743
Outgassing data for selecting spacecraft materials
[NASA-RP-1124] 17 p2617 N84-26751
Techniques for studying gravity waves and turbulence 17 p2688 N84-27115
Heat Capacity Mapping Radiometer (HCMR) data processing algorithm, calibration, and flight performance evaluation
[E84-10153] 17 p2709 N84-27248
High resolution observations of low contrast phenomena from an Advanced Geosynchronous Platform (AGP) 17 p2712 N84-27266
Remote sensing of air-sea interactions 17 p2712 N84-27267
Some case studies of ocean wave physical processes utilizing the GSFC airborne radar ocean wave spectrometer 17 p2715 N84-27283
Non-Gaussian statistical models of surface wave fields for remote sensing applications 17 p2715 N84-27284
Altimeter height measurement errors introduced by the presence of variable cloud and rain attenuation 17 p2716 N84-27289
The evolutionary trend in airborne and satellite radar altimeters 17 p2718 N84-27300
The impact of scatterometer wind data on global weather forecasting 17 p2720 N84-27314
First global analysis of SEASAT scatterometer winds and potential for meteorological research 17 p2720 N84-27315
Matrix partitioning and EOF/principal component analysis of Antarctic Sea ice brightness temperatures
[NASA-TM-83916] 17 p2721 N84-27319
A comparative review of bow shocks and magnetopauses
[NASA-TM-86114] 17 p2726 N84-27353
The Z3 model of Saturns magnetic field and the Pioneer 11 vector helium magnetometer observations
[NASA-TM-86118] 17 p2776 N84-27623
Interaction of the plasma tail of comet Bradfield 1979L on 1980 February 6 with a possibly flare-generated solar-wind disturbance
[NASA-TM-85617] 17 p2777 N84-27632
Energy flow continuity in solar active regions 17 p2779 N84-27643
Temporal variations of solar UV spectral irradiance caused by solar rotation and active region evolution 17 p2780 N84-27650
Thermal bifurcation in the upper solar photosphere inferred from heterodyne spectroscopy of OH rotational lines
[NASA-TM-86128] 17 p2781 N84-27654
A radiometric Bode's Law: Predictions for Uranus
[NASA-TM-86074] 17 p2781 N84-27659
Get away special experimenter's symposium
[NASA-CP-2324] 18 p2799 N84-27758
El Paso/Yslete schools Get-Away Special Space Shuttle student projects 18 p2799 N84-27766
Gypsy moths and American dog ticks: Space partners 18 p2800 N84-27768
An investigation of the phototropic effect on seedling orientation in a microgravity environment: A student involvement project 18 p2800 N84-27771
Project Explorer: Get Away Special #007 18 p2800 N84-27773
Astronomical Microdensitometry Conference
[NASA-CP-2317] 18 p2839 N84-28020
Performance testing of the high altitude observatory PDS microdensitometer 18 p2839 N84-28022
Positive-feedback photometric drift in the PDS 18 p2840 N84-28025
Off-axis coherently pumped laser
[NASA-CASE-GSC-12592-1] 18 p2845 N84-28065
Apparatus for and method of compensating dynamic unbalance
[NASA-CASE-GSC-12550-1] 18 p2848 N84-28082
Workpiece positioning vise
[NASA-CASE-GSC-12762-1] 18 p2848 N84-28083
Field-aligned electron density irregularities near 500 km. Equator to polar cap topside sounder Z mode observations
[NASA-TM-86091] 18 p2879 N84-28277
Tortuosity of lightning return stroke channels
[NASA-TM-86104] 18 p2883 N84-28295
Interaction of the ABL with stratocumulus and cumulus cloud layers, appendix N 18 p2885 N84-28309
Memory-based parallel data output controller
[NASA-CASE-GSC-12447-2] 18 p2916 N84-28491
Considerations on command and response language features for a network of heterogeneous autonomous computers
[NASA-TM-86089] 18 p2923 N84-28535

NIMBUS observation processing system requirements NG-13. ERB master archival. Tape specification no. T134081 ERB Mat, revision 1
[NASA-TM-85388] 18 p2944 N84-28668

Large-scale interplanetary magnetic fields: Voyager 1 and 2 observations between 1 AU and 9.5 AU
[NASA-TM-86088] 18 p2952 N84-28712

Repairing Solar Max: The Solar Maximum Repair Mission
[NASA-EP-205] 19 p2979 N84-28883

Rotatable electric cable connecting system
[NASA-CASE-GSC-12899-1] 19 p3011 N84-29085

Preflight study of San Marco D/L GaAs solar cell panels 19 p3047 N84-29334

LANDSAT-4 Science Investigations Summary, including December 1983 Workshop results, volume 1
[E84-10166] 20 p3205 N84-30359

The LANDSAT-4 program: An overview 20 p3205 N84-30360

Multispectral Scanner (MSS) instrument description 20 p3205 N84-30362

An overview of LANDSAT-4 and the Thematic Mapper 20 p3206 N84-30364

Radiometric calibration and processing procedure for reflective bands on LANDSAT-4 protoflight Thematic Mapper 20 p3206 N84-30366

Thematic Mapper image production in the engineering checkout phase 20 p3206 N84-30369

TM digital image products for applications 20 p3206 N84-30371

Spectral characterization of the LANDSAT Thematic Mapper sensors 20 p3207 N84-30372

Pre-launch absolute radiometric calibration of LANDSAT-4 protoflight Thematic Mapper 20 p3207 N84-30373

Relative radiometric calibration of LANDSAT TM reflective bands 20 p3207 N84-30374

Thermal band characterization of LANDSAT-4 Thematic Mapper 20 p3207 N84-30376

LANDSAT-4 Science Investigations Summary, including December 1983 Workshop results, volume 2
[E84-10167] 20 p3208 N84-30380

Radiometric accuracy assessment of LANDSAT-4 Multispectral Scanner (MSS) data 20 p3211 N84-30401

Spectral characterization of the LANDSAT-4 MSS sensors 20 p3211 N84-30402

Geometric accuracy assessment of LANDSAT-4 Multispectral Scanner (MSS) 20 p3212 N84-30407

Impact of Thematic Mapper sensor characteristics on classification accuracy 20 p3213 N84-30410

Assessment of computer-based geologic mapping of rock units in the LANDSAT-4 scene of northern Death Valley, California 20 p3214 N84-30416

Quick look analysis of TM data of the Washington, District of Columbia area 20 p3214 N84-30418

Preliminary comparisons of the information content and utility of TM versus MSS data 20 p3215 N84-30423

LANDSAT-4 Thematic Mapper scene characteristics for a suburban and regional test site 20 p3216 N84-30429

Final comparison of TM and MSS data for surface mine assessment in Logan County, West Virginia 20 p3216 N84-30430

Comparison of land cover information from LANDSAT Multispectral Scanner (MSS) and airborne Thematic Mapper Simulator (TMS) data for hydrologic applications 20 p3216 N84-30431

Relative accuracy assessment of LANDSAT-4 MSS and TM data for level 1 land cover inventory 20 p3217 N84-30432

Earth Observing System. Volume 1, part 2: Science and mission requirements. Working group report appendix
[NASA-TM-86129-VOL-1-PT-2] 20 p3217 N84-30433

Global hydrologic cycle 20 p3217 N84-30434

Global biogeochemistry: An overview 20 p3217 N84-30435

Biogeochemical considerations 20 p3217 N84-30436

Biological oceanography 20 p3217 N84-30437

Inland aquatic resources and biogeochemical cycles 20 p3217 N84-30438

Forest environments 20 p3218 N84-30439

Land biology 20 p3218 N84-30440

Tropospheric chemistry 20 p3218 N84-30441

Geology 20 p3218 N84-30442

Interior of the Earth 20 p3218 N84-30443

Oceanic transport 20 p3218 N84-30444

Polar glaciology 20 p3218 N84-30445

Sea ice 20 p3218 N84-30446

Tropospheric science 20 p3219 N84-30447

Middle atmospheric science 20 p3219 N84-30448

Aeronomy 20 p3219 N84-30449

Earth Observing System. Science and mission requirements, volume 1, part 1
[NASA-TM-86129-VOL-1-PT-1] 20 p3219 N84-30450

Earth Observing System, introduction 20 p3219 N84-30451

Observational requirements and measurement systems concepts 20 p3219 N84-30452

Implementation strategy 20 p3219 N84-30453

Earth Observing System, conclusions and recommendations 20 p3219 N84-30454

Research activities of the Geodynamics Branch
[NASA-TM-86123] 20 p3220 N84-30455

Update: San Andreas Fault experiment 20 p3220 N84-30456

Crustal deformation and earthquakes 20 p3220 N84-30457

Results of laser ranging collocations during 1983 20 p3220 N84-30458

A comparison between Lageos laser ranging and VLBI determined baselines 20 p3220 N84-30459

Geodynamics of crustal deformation and seismotectonic block movements in central Europe 20 p3220 N84-30460

Sensitivity of SLR baselines to errors in Earth orientation 20 p3220 N84-30461

Analysis of the Earth's variable rotation 20 p3221 N84-30462

SEASAT observations of lithospheric flexure 20 p3221 N84-30463

Lageos orbit and the albedo problem 20 p3221 N84-30464

Lageos orbit and solar eclipses 20 p3221 N84-30465

Verification of the accuracy of GEM-L2 in response to criticism by Lambeck and Coleman 20 p3221 N84-30466

Geodyn systems development 20 p3221 N84-30467

The ERODYN and QRPIG computer programs 20 p3221 N84-30468

Ocean circulation studies 20 p3222 N84-30469

Global mean sea surface based upon SEASAT altimeter data 20 p3222 N84-30470

An objective analysis technique for extrapolating tidal fields 20 p3222 N84-30471

SEASAT altimetry for surface height of inland seas 20 p3222 N84-30472

Accuracy of mapping the Earth's gravity field fine structure with a spaceborne gravity gradiometer mission 20 p3222 N84-30473

Soil moisture from temperature measurements at the Earth's surface, update 20 p3222 N84-30474

Some contributions to knowledge of the magnetospheric plasma by ISEE investigators
[NASA-TM-86124] 20 p3301 N84-30962

Submillimeter wavelength survey of the galactic plane from l = -5 deg to l = +62 deg: Structure and energetics of the inner disk
[NASA-TM-86077] 20 p3319 N84-31069

Fundamental and harmonic emission in interplanetary type 2 radio bursts
[NASA-TM-86099] 20 p3320 N84-31079

Radiometric calibration and processing procedure for reflective bands on LANDSAT-4 protoflight Thematic Mapper
[E84-10056] 21 p3426 N84-31731

The near-Earth magnetic field at 1980 determined from MAGSAT data
[E84-10170] 21 p3426 N84-31733

Characterization of the LANDSAT sensors' spatial responses
[E84-10171] 21 p3426 N84-31734

TM digital image products for applications
[E84-10178] 21 p3426 N84-31749

Relative radiometric calibration of LANDSAT TM reflective bands
[E84-10179] 21 p3426 N84-31750

Prelaunch absolute radiometric calibration of the reflective bands on the LANDSAT-4 protoflight Thematic Mapper
[E84-10180] 21 p3426 N84-31751

Prelaunch absolute radiometric calibration of LANDSAT-4 protoflight Thematic Mapper
[E84-10181] 21 p3429 N84-31752

Characterization of radiometric calibration of LANDSAT-4 TM reflective bands
[E84-10182] 21 p3429 N84-31753

TM digital image products for applications
[E84-10183] 21 p3429 N84-31754

Spectral characterization of the LANDSAT Thematic Mapper sensors
[E84-10184] 21 p3429 N84-31755

Introduction to Thematic Mapper investigations. Section 1: Radiometry. Section 2: Geometry
[E84-10185] 21 p3429 N84-31756

Relative radiometric calibration of LANDSAT TM reflective bands
[E84-10186] 21 p3429 N84-31757

Age discrimination among basalt flows using digitally enhanced LANDSAT imagery
[E84-10189] 21 p3430 N84-31760

Prescription of land-surface boundary conditions in GISS GCM 2: A simple method based on high-resolution vegetation data bases
[NASA-TM-86096] 21 p3430 N84-31761

Conservation laws of wave action and potential enstrophy for Rossby waves in a stratified atmosphere
[NASA-TM-86058] 21 p3442 N84-31838

A device-dependent interface for interactive image display
[NASA-TM-86136] 21 p3461 N84-31949

Pilot climate data system user's guide
[NASA-TM-86084] 21 p3463 N84-31956

Large amplitude MHD waves upstream of the Jovian bow shock: Reinterpretation
[NASA-TM-86131] 21 p3525 N84-32333

Two probable optical flashes from gamma-ray bursters
[NASA-TM-86126] 21 p3526 N84-32337

Photon-photon absorption and the uniqueness of the spectra of active galactic nuclei
[NASA-TM-86117] 21 p3526 N84-32338

Electronic Switching Spherical Array (ESSA) antenna systems
[NASA-TM-86127] 22 p3572 N84-32621

The correction of aberrations computed in the aperture plane of multifrequency microwave radiometer antennas
[NASA-TM-86090] 22 p3581 N84-32679

Forecasting of high voltage insulation performance: Testing of recommended potting materials and of capacitors
[NASA-TM-85536] 22 p3581 N84-32681

Accuracy of three dimensional solid finite elements 22 p3609 N84-32867

Mapping magnetized geologic structures from space: The effect of orbital and body parameters
[E84-10191] 22 p3614 N84-32895

Administrative automation in a scientific environment 22 p3671 N84-33269

A user view of office automation or the integrated workstation 22 p3671 N84-33271

Axions, neutrinos and strings: The formation of structure in an SO(10) universe
[NASA-TM-86139] 22 p3678 N84-33317

A geographic comparison of selected large-scale planetary surface features
[NASA-TM-86147] 22 p3679 N84-33320

Expressions to determine temperatures and emission measures for solar X-ray events from GOES measurements
[NASA-TM-86142] 22 p3679 N84-33325

Microwave and X-ray observations of delayed brightenings at sites remote from the primary flare locations
[NASA-TM-86140] 22 p3680 N84-33326

Three precise gamma-ray burst source locations
[NASA-TM-86132] 22 p3680 N84-33332

The broad-band X-ray spectrum of a QSO sample
[NASA-TM-85071] 22 p3681 N84-33333

Engineering and design properties of thallium-doped sodium iodide and selected properties of sodium-doped cesium iodide
[NASA-RP-1131] 23 p3726 N84-33613

The 1983 Goddard Space Flight Center Battery Workshop
[NASA-CP-2331] 23 p3735 N84-33668

Inertial energy storage for spacecraft 23 p3735 N84-33669

Performance of the IUE spacecraft batteries after 70 months 23 p3738 N84-33692

Comparison of standard and heart-pacer type 3rd electrodes in design variable cells 23 p3738 N84-33694

EMU battery/module service tool characterization study 23 p3739 N84-33696

Imaging X-ray spectrometer
[NASA-CASE-GSC-12682-1] 23 p3749 N84-33765

Utilization of active microwave roughness measurements to improve passive microwave soil moisture estimates over bare soils 23 p3770 N84-33898

Observation of variations in the composition of sea ice in the Greenland MIZ during early summer 1983 with the Nimbus-7 SMMR 23 p3773 N84-33916

Passive microwave characteristics of the Bering Sea ice cover during Marginal Ice Zone Experiment (MIZEX) West 23 p3773 N84-33917

Analysing remotely sensed data on the Massively Parallel Processor 23 p3779 N84-33963

MHD processes in the outer heliosphere
[NASA-TM-86137] 23 p3845 N84-34391

Thirteenth Space Simulation Conference. The Payload: Testing for Success
[NASA-CP-2340] 24 p3861 N84-34468
San Marco D/L solar array system design and performance
[NASA-TM-86125] 24 p3916 N84-34795
Large-scale, near-Earth, magnetic fields from external sources and the corresponding induced internal field
[NASA-TM-85012] 24 p3918 N84-34807
Geophysical interpretation of satellite laser ranging measurements of crustal movement in California
[NASA-TM-86148] 24 p3919 N84-34808
Andean tectonics: Implications for Satellite Geodesy
[NASA-TM-86160] 24 p3919 N84-34809
NASA climate data catalog
[NASA-TM-86085] 24 p3923 N84-34827
Methodology for interpretation of SST retrievals using the AVHRR split window algorithm
[NASA-TM-85100] 24 p3934 N84-34905
Apparatus for disintegrating kidney stones
[NASA-CASE-GSC-12652-1] 24 p3936 N84-34913
RECOZ data reduction and analysis: Programs and procedures
[NASA-TM-87365] 24 p3944 N84-34973
Interactive digital signal processor
[NASA-TM-83997] 24 p3944 N84-34974
Pilot climate data system: User's guide for charts subsystem
[NASA-TM-86151] 24 p3945 N84-34975
Physics of nonmagnetic relativistic thermal plasmas
[NASA-TM-86154] 24 p3965 N84-35107
Geocoded data structures and their applications to Earth science investigations
[NASA-TM-86113] 24 p3968 N84-35127
A general scientific information system to support the study of climate-related data
[NASA-TM-86152] 24 p3968 N84-35128
Optically-thick, highly-variable plasma in interacting binaries 24 p3980 N84-35211
Egress spectra of the new eclipsing supergiant 22 Vulpeculae 24 p3980 N84-35215
Instrumentation studies for FUSE-Columbus 24 p3982 N84-35229
X-ray spectra of clusters of galaxies
[NASA-TM-86115] 24 p3982 N84-35234
Temperature and elemental abundances in the Abell cluster A 576 derived from X-ray observations
[NASA-TM-85103] 24 p3987 N84-35238
Implications of a class of grand unified theories for large scale structure in the universe
[NASA-TM-86146] 24 p3987 N84-35240
Plasma electron analysis: Voyager plasma science experiment
[NASA-TM-85037] 24 p3989 N84-35243
Wet model of Saturn's ionosphere: Water from the rings
[NASA-TM-86144] 24 p3992 N84-35262
A new class of solar burst with MM-wave emission but only at the highest frequency (90 GHz)
[NASA-TM-87369] 24 p3992 N84-35264
Spatial fluctuations in the diffuse cosmic X-ray background
[NASA-TM-85029] 24 p3994 N84-35281

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION. LYNDON B. JOHNSON SPACE CENTER, HOUSTON, TEX.

Plume base flow simulation technology 01 p0018 N84-10116
Launch vehicle aerodynamic data base development comparison with flight data 01 p0018 N84-10117
Shuttle booster separation aerodynamics 01 p0019 N84-10123
Shuttle launch debris: Sources, consequences, solutions 01 p0019 N84-10124
Ascent air data system results from the space shuttle flight test program 01 p0020 N84-10125
Space shuttle orbiter venting: Lessons learned 01 p0020 N84-10126
Space shuttle entry longitudinal aerodynamic comparisons of flights 1-4 with preflight predictions 01 p0020 N84-10128
Space shuttle orbiter reaction control subsystem flight data anomalies 01 p0021 N84-10131
Minimum testing of the space shuttle orbiter for stability and control derivatives 01 p0021 N84-10134
Shuttle ascent GN&C postflight results 01 p0022 N84-10140
The application of aerodynamic uncertainties in the design of the entry trajectory and flight control system of the space shuttle orbiter 01 p0022 N84-10141
Shuttle orbiter boundary layer transition at flight and wind tunnel conditions 01 p0023 N84-10149
A review of nonequilibrium effects and surface catalysis on shuttle heating 01 p0024 N84-10154
Space shuttle orbiter reusable surface insulation flight results 01 p0025 N84-10157
Space shuttle orbiter leading-edge flight performance compared to design goals 01 p0025 N84-10161
The development of aerodynamic uncertainties for the space shuttle orbiter 01 p0026 N84-10164
Flying the orbiter in the approach/landing phase 01 p0027 N84-10170
Absorbent product and articles made therefrom
[NASA-CASE-MSC-18223-2] 02 p0269 N84-11758
Space station energy sizing 03 p0344 N84-12233
The Boeing flywheel study 03 p0344 N84-12235
Space station control requirements and flywheel system weights for combined momentum and energy storage 03 p0344 N84-12236
Estimating location parameters in a mixture model 03 p0392 N84-12559
Initial experimental results from a laboratory size beam plasma discharge device 05 p0638 N84-14198
Research and technology at the Lyndon B. Johnson Space Center
[NASA-TM-58257] 05 p0758 N84-14973
High altitude aerodynamic platform concept evaluation and prototype engine testing
[NASA-TM-58256] 07 p0953 N84-16182
Method and technique for installing light-weight, fragile, high-temperature fiber insulation
[NASA-CASE-MSC-16934-3] 07 p0966 N84-16262
Method and apparatus for simulating gravitational forces on a living organism
[NASA-CASE-MSC-20202-1] 07 p1050 N84-16803
The ISPM dust experiment 09 p1262 N84-18239
Accomplishments of the NASA Johnson Space Center portion of the soil moisture project in fiscal year 1981
[E84-10090] 10 p1521 N84-19961
AgRISTARS: Agriculture and resources inventory surveys through aerospace remote sensing
[E84-10091] 10 p1522 N84-19962
Antarctic Meteorite Newsletter. Volume 7, number 1: Sample requests and allocations
[NASA-TM-85559] 10 p1596 N84-20462
Space Station medical sciences concepts
[NASA-TM-58255] 11 p1693 N84-21040
Toward a complete inventory of stratospheric dust particles with implications and their classification 11 p1756 N84-21464
A study of the relation between crop growth and spectra reflectance parameters 12 p1831 N84-21936
A study of the relation between crop growth and spectra reflectance parameters 12 p1833 N84-21949
Desktop computer graphics for RMS/payload handling flight design 12 p1871 N84-22196
The triangle compare method of hidden-line elimination 12 p1873 N84-22205
Liquid crystal light valve structures
[NASA-CASE-MSC-20036-1] 12 p1912 N84-22457
Device and method for frictionally testing materials for ignitability
[NASA-CASE-MSC-20622-1] 13 p1937 N84-22596
Satellite Services Catalog: Tools and equipment
[NASA-TM-85627] 13 p1937 N84-22597
Pre-stressed thermal protection systems
[NASA-CASE-MSC-20254-1] 13 p1938 N84-22601
Apparatus for releasably connecting first and second objects in predetermined space relationship
[NASA-CASE-MSC-18969-1] 13 p1938 N84-22605
Tanker orbit transfer vehicle and method
[NASA-CASE-MSC-20543-1] 13 p1939 N84-22610
Constant force friction damper
[NASA-CASE-MSC-20505-1] 13 p1939 N84-22611
Operational update to the RCS flow field of the space shuttle orbiter 13 p1942 N84-22626
Doppler radar having phase modulation of both transmitted and reflected return signals
[NASA-CASE-MSC-18675-1] 13 p1975 N84-22820
Heat resistant protective hand covering
[NASA-CASE-MSC-20261-2] 13 p2022 N84-23113
Light transmitting window assembly
[NASA-CASE-MSC-18417-1] 13 p2042 N84-23251
Caleras in the solar system 13 p2061 N84-23485
Weathered stony meteorites from Victoria Land, Antarctica, as possible guides to rock weathering on Mars 13 p2085 N84-23509
Salts in the dry valleys of Antartica 13 p2085 N84-23510
Interstellar-gas experiment (A0038) 15 p2275 N84-24660
The chemistry of micrometeorcids (A0187-1) 15 p2276 N84-24669
L Chondrite meteorites: A compilation and preliminary analyses 15 p2427 N84-25576
Sheath shapes: A 3-D generalization of the Child-Langmuir sheath model for large high-voltage space structures in dense plasmas
[AD-P002124] 16 p2525 N84-26210
A representational basis for the development of a distributed expert system for Space Shuttle flight control
[NASA-TM-58258] 16 p2544 N84-26328
Performance criteria guideline for three explosion protection methods of electrical equipment rated up to 15,000 volts AC
[NASA-TM-85528] 17 p2640 N84-26887
Method and apparatus for receiving and tracking phase modulated signals
[NASA-CASE-MSC-16170-2] 18 p2828 N84-27952
High resolution bone mineral densitometry with a gamma camera
[NASA-TM-85386] 18 p2899 N84-28391
Verification of an altitude decompression sickness prevention protocol for Shuttle operations utilizing a 10.s psi pressure stage
[NASA-TM-58259] 18 p2899 N84-28392
Heat resistant protective hand covering
[NASA-CASE-MSC-20261-1] 18 p2915 N84-28484
Digital interface for bi-directional communication between a computer and a peripheral device
[NASA-CASE-MSC-20258-1] 18 p2916 N84-28492
Antarctic Meteorite Newsletter, volume 7, number 2: Sample requests and allocations
[NASA-TM-85385] 18 p2953 N84-28714
Flight data file: STS-4 crew activity plan
[NASA-TM-85502] 19 p2978 N84-28881
Space Shuttle Orbiter improved auxiliary power unit 20 p3144 N84-29965
Preliminary evaluation of Thematic Mapper image data quality 20 p3214 N84-30415
Thematic Mapper data quality and performance assessment in renewable resources/agriculture remote sensing 20 p3215 N84-30422
Preliminary evaluation of TM for soils information 20 p3216 N84-30427
Increase in whole-body peripheral vascular resistance during three hours of air or oxygen prebreathing
[NASA-TM-58261] 20 p3259 N84-30684
Fundamental remote science research program. Part 2: Status report of the mathematical pattern recognition and image analysis project
[NASA-TM-58260] 21 p3430 N84-31762
Pulmonary artery location during microgravity activity: Potential impact for chest-mounted Doppler during space travel
[NASA-TM-58262] 21 p3457 N84-31935
Foldable self-erecting joint
[NASA-CASE-MSC-20635-1] 22 p3542 N84-32424
Multi-leg heat pipe evaporator
[NASA-CASE-MSC-20812-1] 22 p3592 N84-32748
Linear motion valve
[NASA-CASE-MSC-20148-1] 22 p3603 N84-32823
Spectral characterization of biophysical characteristics in a boreal forest: Relationship between Thematic Mapper band reflectance and leaf area index for Aspen 23 p3766 N84-33875
Space Shuttle reaction control subsystem propellant tank masked screen test 24 p3862 N84-34477
Ground test challenges in the development of the Space Shuttle orbiter auxiliary power unit 24 p3862 N84-34478
The role of the Shuttle Engineering Simulator in the Solar Max rescue mission 24 p3864 N84-34489
Improved monogroove heat pipe design: Insulated liquid channel with bridging wick
[NASA-CASE-MSC-20497-1] 24 p3899 N84-34692

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION. JOHN F. KENNEDY SPACE CENTER, COCOA BEACH, FLA.

Research and technology at the Kennedy Space Center
[NASA-TM-83092] 05 p0759 N84-14975
Video processor for air traffic control beacon system
[NASA-CASE-KSC-11155-1] 06 p0829 N84-15395
Chronology of KSC and KSC related events for 1981
[NASA-TM-85510] 06 p0933 N84-16060
STS-9: Orbital workshop spacelab to fly on ninth Shuttle mission
[NASA-TM-85497] 07 p0963 N84-16242
Chronology of KSC and KSC related events for 1981
[NASA-TM-85498] 07 p1084 N84-17047
Intercenter Problem Reporting and Corrective Action System (PRACAS) 11 p1748 N84-21408
Chronology of KSC and KSC related events, 1982
[NASA-TM-85576] 12 p1917 N84-22491
Liquid hydrogen polygeneration system and process
[NASA-CASE-KSC-11304-1] 19 p3001 N84-29017
The administrative window into the integrated DBMS 22 p3671 N84-33270
Use of multi-frequency, multi-polarization, multi-angle airborne radars for class discrimination in a southern temperature forest 23 p3767 N84-33881

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION. LANGLEY RESEARCH CENTER, HAMPTON, VA.

Effect of thrust vectoring and wing maneuver devices on transonic aeropropulsive characteristics of a supersonic fighter
[NASA-TP-2119] 01 p0004 N84-10025

Shuttle Performance: Lessons Learned, part 1
[NASA-CP-2283-PT-1] 01 p0018 N84-10115

Supersonic loads due to shuttle-orbiter/external-tank attachment structures 01 p0019 N84-10122

A review of preflight estimates of real-gas effects on space shuttle aerodynamic characteristics 01 p0020 N84-10129

Analysis of shuttle oscillation in the Mach Number = 1.7 to Mach Number = 1.0 range 01 p0021 N84-10132

Stability and control over the supersonic and hypersonic speed range 01 p0021 N84-10135

Lateral-directional stability investigation of the space shuttle orbiter at Mach 6 01 p0022 N84-10137

Aerodynamic coefficient identification package dynamic data accuracy determinations: Lessons learned 01 p0022 N84-10138

Remotely driven model control surfaces for efficient wind-tunnel operations 01 p0022 N84-10139

Shuttle Performance: Lessons Learned, part 2
[NASA-CP-2283-PT-2] 01 p0023 N84-10144

Orbiter catalytic/noncatalytic heat transfer as evidenced by heating to contaminated surfaces on STS-2 and STS-3 01 p0024 N84-10153

Filler bar heating due to stepped tiles in the shuttle orbiter thermal protection system 01 p0024 N84-10155

Leeward centerline and side fuselage entry heating predictions for the space shuttle orbiter 01 p0025 N84-10156

Life considerations of the shuttle orbiter densified-tile thermal protection system 01 p0025 N84-10159

Subsonic longitudinal performance coefficient extraction from shuttle flight data: An accuracy assessment for determination of data base updates 01 p0026 N84-10163

Shuttle flight pressure instrumentation: Experience and lessons for the future 01 p0026 N84-10167

A comparison of measured and theoretical predictions for STS ascent and entry sonic booms 01 p0027 N84-10168

On the stability of the unsteady boundary layer on a cylinder oscillating transversely in a viscous fluid
[NASA-CR-172216] 01 p0076 N84-10499

The evolution equations for Taylor vortices in the small gap limit
[NASA-CR-172249] 01 p0077 N84-10501

Pressure and heating-rate distributions on a corrugated surface in a supersonic turbulent boundary layer
[NASA-TP-1024] 01 p0077 N84-10504

Portable dynamic pressure generator for static and dynamic calibration of in situ pressure transducers
[NASA-TM-85687] 01 p0063 N84-10538

Parametric tip effects for conformable rotor applications
[NASA-TM-85682] 01 p0094 N84-10609

Aeromechanical stability of a hingeless rotor in hover and forward flight: Analysis and wind tunnel tests
[NASA-TM-85683] 01 p0094 N84-10610

Vertical drop test of a transport fuselage section located forward of the wing
[NASA-TM-85679] 01 p0094 N84-10611

A methodology for exploiting parallelism in the finite element process
[NASA-CR-172219] 01 p0127 N84-10831

High resolution schemes and the entropy condition
[NASA-CR-172218] 01 p0128 N84-10836

Spectral methods for time dependent partial differential equations
[NASA-CR-172241] 01 p0128 N84-10837

Field-incidence transmission of treated orthotropic and laminated composite panels
[NASA-TM-85680] 01 p0139 N84-10911

Investigation of effects of microphone position and orientation on near-ground noise measurements
[NASA-TP-2004] 01 p0139 N84-10913

Joint University Program for Air Transportation Research, 1982
[NASA-CP-2285] 02 p0167 N84-11099

Family of airfoil shapes for rotating blades
[NASA-CASE-LAR-12843-1] 02 p0173 N84-11136

Reynolds number tests of an NPL 9510 airfoil in the Langley 0.3-meter transonic cryogenic tunnel
[NASA-TM-85663] 02 p0173 N84-11141

A computer program for estimating the aerodynamic characteristics of NACA 16-series airfoils
[NASA-TM-85696] 02 p0174 N84-11145

A ground test measurement system for the shuttle entry air data system
[NASA-TM-85707] 02 p0184 N84-11193

Metal matrix composite structural panel construction
[NASA-CASE-LAR-12807-1] 02 p0187 N84-11214

Prediction of impact force and duration during low velocity impact on circular composite laminates
[NASA-TM-85703] 02 p0188 N84-11219

Surface analysis of graphite fiber reinforced polyimide composites
[NASA-TM-85700] 02 p0188 N84-11220

Metallurgical characterization of the fracture of several high strength aluminum alloys
[NASA-TP-1086] 02 p0189 N84-11230

Video model deformation system for the National Transonic Facility
[NAS 1.15:85681] 02 p0222 N84-11457

A technique for dynamically calibrating pressure transducers at cryogenic temperatures
[NASA-TM-85695] 02 p0222 N84-11458

Proposed fast-response oxygen monitoring and control system for the Langley 8-foot high-temperature tunnel
[NASA-TP-2218] 02 p0223 N84-11460

High-speed digital signal normalization for feature identification
[NASA-TM-85719] 02 p0270 N84-11767

User's guide for a computer program for calculating the zero-lift wave drag of complex aircraft configurations
[NASA-TM-85670] 02 p0271 N84-11774

The use of singular value gradients and optimization techniques to design robust controllers for multiloop systems
[NASA-TM-85720] 02 p0277 N84-11815

Spectral methods for partial differential equations
[NASA-CR-172248] 02 p0280 N84-11832

Research and technology, 1983
[NASA-TM-85702] 02 p0309 N84-12026

Controls, Displays, and Information Transfer for General Aviation IFR Operations
[NASA-CP-2279] 03 p0311 N84-12029

Single pilot IFR program overview and status 03 p0311 N84-12030

Analysis of general aviation single-pilot IFR incident data obtained from the NASA Aviation Safety Reporting System 03 p0312 N84-12033

General aviation single pilot IFR autopilot study 03 p0312 N84-12035

Flight test validation of a design procedure for digital autopilots 03 p0312 N84-12036

A simulator evaluation of an automatic terminal approach system 03 p0312 N84-12037

Advanced symbology for general aviation approach to landing displays 03 p0313 N84-12039

Pilot response with conventional displays 03 p0313 N84-12040

Single pilot scanning behavior in simulated instrument flight 03 p0313 N84-12041

A simulator evaluation of a rate-enhanced instrument landing system display 03 p0313 N84-12042

Display research: Pilot response with the "follow-me" box display 03 p0313 N84-12043

Proposed study to determine potential flight applications and human factors design guidelines of voice recognition/synthesis systems 03 p0314 N84-12047

Transonic airfoil development 03 p0317 N84-12076

Transonic empirical configuration design process 03 p0318 N84-12079

Geometries for roughness shapes in laminar flow
[NASA-CASE-LAR-13255-1] 03 p0320 N84-12092

Recent studies at NASA-Langley of vortical flows interacting with neighboring surfaces 03 p0322 N84-12109

Experimental investigation of forebody and wing leading-edge vortex interactions at high angles of attack 03 p0322 N84-12110

Solar powered aircraft
[NASA-CASE-LAR-12615-1] 03 p0330 N84-12154

Evaluation of a total energy-rate sensor on a transport airplane
[NASA-TP-2212] 03 p0332 N84-12164

Simulator study of flight characteristics of a large twin-fuselage cargo transport airplane during approach and landing
[NASA-TP-2183] 03 p0337 N84-12190

Integrated Flywheel Technology, 1983
[NASA-CP-2290] 03 p0343 N84-12228

Integrated Power/Attitude Control System (IPACS) 03 p0344 N84-12229

IPACS electronics: Comments on the original design and current efforts at Langley Research Center 03 p0345 N84-12240

Annular Momentum Control Device (AMCD) 03 p0345 N84-12241

Advanced Control and Power System (ACAPS) technology program 03 p0345 N84-12243

Analytical prediction of aerothermal environment in a wing-elevon cove
[NASA-TM-85711] 03 p0370 N84-12412

Low energy electron magnetometer using a monoenergetic electron beam
[NASA-CASE-LAR-12706-1] 03 p0375 N84-12444

Ride quality meter
[NASA-CASE-LAR-12882-1] 03 p0375 N84-12445

Vertical shaft windmill
[NASA-CASE-LAR-12923-1] 03 p0383 N84-12493

The Dugdale model for the compact specimen
[NASA-TM-85714] 03 p0388 N84-12529

Vertical drop test of a transport fuselage center section including the wheel wells
[NASA-TM-85706] 03 p0388 N84-12531

A model for the distributed storage and processing of large arrays
[NASA-CR-172252] 03 p0420 N84-12742

Design, development and use of the finite element machine
[NASA-CR-172250] 03 p0424 N84-12777

An overview of aerodynamic research and technology requirements as related to some military needs
[NASA-TM-85691] 04 p0477 N84-13138

Some thoughts concerning large load-carrying vehicles
[NASA-TM-85701] 04 p0477 N84-13139

XTRAN2L: A program for solving the general-frequency unsteady transonic small disturbance equation
[NASA-TM-85723] 04 p0479 N84-13150

Tabulation of data from tests of an NPL 9510 airfoil in the Langley 0.3-meter transonic cryogenic tunnel
[NASA-TM-84579] 04 p0479 N84-13151

Investigation of installation effects on twin-engine convergent-divergent nozzles
[NASA-TP-2205] 04 p0479 N84-13152

Vortex flap flow reattachment line and subsonic longitudinal aerodynamic data on 50 deg to 74 deg Delta wings on common fuselage
[NASA-TM-84618] 04 p0480 N84-13160

Internal pressure distributions for a two-dimensional thrust-reversing nozzle operating at a free-stream Mach number of zero
[NASA-TM-85655] 04 p0480 N84-13161

Aerodynamic force measurements with a strain-gage balance in a cryogenic wind tunnel
[NASA-TP-2251] 04 p0480 N84-13162

Thrust-induced effects on subsonic longitudinal aerodynamic characteristics of a vectored-engine-over-wing configuration
[NASA-TP-2228] 04 p0481 N84-13163

Aerodynamic characteristics, including effect of body shape, of a Mach 6 aircraft concept
[NASA-TP-2235] 04 p0481 N84-13164

Effect of thrust reverser operation on the lateral-directional characteristics of a three-surface F-15 model at transonic speeds
[NASA-TP-2234] 04 p0481 N84-13165

Comparison of low-altitude wind-shear statistics derived from measured and proposed standard wind profiles
[NASA-TM-85668] 04 p0482 N84-13172

Simulator study of pilot-aircraft-display system response obtained with a three-dimensional-box pictorial display
[NASA-TP-2122] 04 p0484 N84-13182

Characterization of the general purpose research furnace for low-G directional solidification experiments
[NASA-TM-85718] 04 p0489 N84-13211

Cobalt ion-containing epoxies
[NASA-TM-85715] 04 p0505 N84-13309

An application of nonlinear programming to the design of regulators of a linear-quadratic formulation
[NASA-CR-172253] 04 p0515 N84-13380

Complex eigenvalues for the stability of Couette flow
[NASA-CR-172251] 04 p0531 N84-13492

Embedded cavity drag in steady and unsteady flows
[NASA-CR-172275] 04 p0531 N84-13493

The disturbance flow field produced by an evolving vortex
[NASA-TP-2245] 04 p0532 N84-13500

Pressure system recertification at NASA-Langley Research Center
[NASA-TM-85733] 04 p0543 N84-13576

Stability, vibration and passive damping of partially restrained imperfect columns
[NASA-TM-85697] 04 p0548 N84-13608

Restricted maximum principles for elastic bodies
[NASA-CR-172255] 04 p0548 N84-13609

Theoretical basis for design of thermal-stress-free fasteners
[NASA-TP-2226] 04 p0548 N84-13614

Proceedings of a Workshop on Assessment of Techniques for Measuring Tropospheric N sub x O sub y
[NASA-CP-2292] 04 p0562 N84-13706

Kinematic equations for resolved-rate control of an industrial robot arm
[NASA-TM-85685] 04 p0585 N84-13866

The compressible aerodynamics of rotating blades based on an acoustic formulation
[NASA-TP-2197] 04 p0594 N84-13923

A simple model of space radiation damage in GaAs solar cells
[NASA-TP-2242] 04 p0603 N84-13978
A flight test of laminar flow control leading-edge systems
[NASA-TM-85712] 05 p0625 N84-14110
Three-dimensional implicit lambda methods
[NASA-CR-172264] 05 p0627 N84-14123
Magnetic heading reference
[NASA-CASE-LAR-12638-1] 05 p0629 N84-14132
Hot melt recharge system
[NASA-CASE-LAR-12881-1] 05 p0658 N84-14323
Self-correcting electronically scanned pressure sensor
[NASA-CASE-LAR-12686-1] 05 p0683 N84-14491
Apparatus and method for jet noise suppression
[NASA-CASE-LAR-11903-2] 05 p0742 N84-14873
Flow improvements in the circuit of the Langley 4- by 7-meter tunnel
[NASA-TM-85662] 06 p0781 N84-15117
Loads and aeroelasticity division research and technology accomplishments for FY 1982 and plans for FY 1983
[NASA-TM-84594] 06 p0782 N84-15120
Design considerations for remotely piloted, high-altitude airplanes powered by microwave energy
[NASA-TM-85730] 06 p0786 N84-15145
An alternate concept for expanding man's presence in space
[NASA-TM-84617] 06 p0794 N84-15172
Capture-ejector satellites
[NASA-TM-85686] 06 p0795 N84-15179
Mechanical fastener
[NASA-CASE-LAR-12738-2] 06 p0795 N84-15180
Analysis of local delaminations and their influence on composite laminate behavior
[NASA-TM-85728] 06 p0798 N84-15199
User's manual for GAMNAS: Geometric and Material Nonlinear Analysis of Structures
[NASA-TM-85734] 06 p0798 N84-15200
Analysis of interlaminar stresses in thick composite laminates with and without edge delamination
[NASA-TM-85738] 06 p0798 N84-15201
Thermal analysis research applicable to space station technology needs
[NASA-TM-84658] 06 p0834 N84-15426
Status of research at the Institute for Computer Applications in Science and Engineering (ICASE)
[NASA-CR-172267] 06 p0895 N84-15811
Spinning mode acoustic radiation from the flight inlet
[NASA-CR-172273] 06 p0908 N84-15896
Acoustic shocks in a variable area duct containing near sonic flows
[NASA-CR-172274] 06 p0908 N84-15897
A review of underwater acoustic systems and methods for locating objects lost at sea
[NASA-TM-85727] 06 p0908 N84-15898
In-trail dynamics of multiple CDTI-equipped aircraft queues
[NASA-TM-85699] 07 p0953 N84-16178
Conceptual design and simulator implementation of an automatic terminal approach system
[NASA-TM-85667] 07 p0959 N84-16215
Missile rolling tail brake torque system
[NASA-CASE-LAR-12751-1] 07 p0961 N84-16231
Synchronously deployable truss structure
[NASA-CASE-LAR-13117-1] 07 p0964 N84-16250
Evaluation of a non-catalytic coating for metallic TPS
[NASA-TM-85745] 07 p0974 N84-16312
Phenoxy resins containing pendent ethynyl groups
[NASA-TM-85747] 07 p0978 N84-16338
Processing study of a polyimidesulfone adhesive
[NASA-TM-85742] 07 p0978 N84-16339
Surface accuracy measurement sensor test on a 50-meter antenna surface model
[NASA-TM-85689] 07 p0992 N84-16427
Effect of nonideal square-law detection on static calibration in noise-injection radiometers
[NASA-TM-85684] 07 p0997 N84-16462
Rotary target V-block
[NASA-CASE-LAR-12007-3] 07 p1006 N84-16523
Solar pumped laser
[NASA-CASE-LAR-12870-1] 07 p1009 N84-16542
Powder fed sheared dispersal particle generator
[NASA-CASE-LAR-12785-1] 07 p1011 N84-16561
Buckling loads of stiffened panels subjected to combined longitudinal compression and shear: Results obtained with PASCO, EAL, and STAGS computer programs
[NASA-TP-2215] 07 p1015 N84-16585
Effect of structural flexibility on the design of vibration-isolating mounts for aircraft engines
[NASA-TM-85725] 07 p1016 N84-16590
Structural optimization: Challenges and opportunities
[NASA-TM-85741] 07 p1016 N84-16591
Investigation of fuselage acoustic treatment for a twin-engine turboprop aircraft in flight and laboratory tests
[NASA-TM-85722] 07 p1069 N84-16947
Intermediate energy proton stopping power for hydrogen molecules and monoatomic helium gas
07 p1071 N84-16955
Low-energy proton stopping power of N2, O2 and water vapor and deviations from Bragg's rule
07 p1071 N84-16956
Ablation effects in oxygen-lead fragmentation at 2.1 GeV/nucleon
[NASA-TM-85704] 07 p1074 N84-16977
Spectral methods for the Euler equations: Chebyshev methods and shock-fitting
[NASA-CR-172295] 08 p1095 N84-17118
Spectral methods for the Euler equations: Fourier methods and shock-capturing
[NASA-CR-172294] 08 p1095 N84-17119
Wave drag as the objective function in transonic fighter wing optimization
[NASA-TP-2265] 08 p1096 N84-17127
Theoretical and experimental engine-inlet flow fields for fighter forebodies
[NASA-TP-2270] 08 p1097 N84-17132
Aerodynamic characteristics of a Sparrow 3 missile model in the flow field of a generalized parent body at Mach 2.86
[NASA-TM-85713] 08 p1097 N84-17134
Loads and aeroelasticity division research and technology accomplishments for FY 1983 and plans for FY 1984
[NASA-TM-85740] 08 p1097 N84-17135
A comparison of two position estimate algorithms that use ILS localizer and DME information. Simulation and flight test results
[NASA-TP-2281] 08 p1102 N84-17165
Friction and wear behavior of aluminum and composite airplane skins
[NASA-TP-2262] 08 p1103 N84-17175
Wind-tunnel free-flight investigation of a model of a forward-swept-wing fighter configuration
[NASA-TP-2230] 08 p1105 N84-17184
An on-line equivalent system identification scheme for adaptive control
[NASA-TM-85737] 08 p1105 N84-17185
IMAGES: A digital computer program for interactive modal analysis and gain estimation for eigensystem synthesis
[NASA-TM-85690] 08 p1105 N84-17186
STEP Experiment Requirements
[NASA-CP-2294] 08 p1109 N84-17211
Space Technology Experiments Platform (STEP) overview
08 p1109 N84-17212
STEP mechanical systems 08 p1109 N84-17213
STEP electronic system design
08 p1109 N84-17214
STEP experiment integration
08 p1109 N84-17215
Deployable beam flight experiment (MAST)
08 p1110 N84-17218
Erectable beam experiment 08 p1110 N84-17219
Vibration isolation technology experiment
08 p1111 N84-17228
Integrated Power/Attitude Control System (IPACS) technology experiment 08 p1111 N84-17229
Large deployable antenna flight experiment for the Space Technology Experiments Platform (STEP)
08 p1112 N84-17232
Large inflated-antenna system
08 p1112 N84-17234
Adaptive microwave reflector
08 p1112 N84-17235
Microwave reflector characterization using simple instruments in EVA 08 p1112 N84-17236
Correlations of supersonic boundary-layer transition on cones including effects of large axial variations in wind-tunnel noise
[NASA-TP-2229] 08 p1157 N84-17534
A nonintrusive nuclear monitor for measuring liquid contents in sealed vessels
[NASA-TM-85754] 08 p1161 N84-17560
Threshold kinetics of a solar-simulator-pumped iodine laser
[NASA-TP-2241] 08 p1163 N84-17575
A finite difference scheme for the equilibrium equations of elastic bodies
[NASA-CR-172293] 08 p1170 N84-17621
Flight measurement and analysis of AAFE RADSCAT wind speed signature of the ocean
[NASA-TM-85646] 08 p1194 N84-17784
Modelling algorithm execution time on processor arrays
[NASA-CR-172289] 08 p1211 N84-17899
PASCAL/48 reference manual
[NASA-TM-85752] 08 p1211 N84-17900
Spline-based estimation techniques for parameters in elliptic distributed systems
[NASA-TM-85439] 08 p1218 N84-17947
Experimental blade vortex interaction noise characteristics of a utility helicopter at 1/4 scale
[NASA-TM-84653] 08 p1227 N84-18018
Neon transport in selected organic composites
[NASA-TM-85693] 08 p1231 N84-18044
Airframe technology for aircraft energy efficiency
[NASA-TM-85749] 09 p1249 N84-18154
Airfoil interaction with impinging vortex
[NASA-TP-2273] 09 p1250 N84-18159
Aerodynamic design for improved manueverability by use of three-dimensional transonic theory
[NASA-TP-2282] 09 p1250 N84-18161
An experimental investigation of nacelle-pylon installation on an unswept wing at subsonic and transonic speeds
[NASA-TP-2246] 09 p1250 N84-18162
Body and canard effects on an attached-flow maneuver wing at Mach 1.62
[NASA-TP-2249] 09 p1250 N84-18163
Investigation of trailing-edge-flap, spanwise-blowing concepts on an advanced fighter configuration
[NASA-TP-2250] 09 p1251 N84-18164
Static internal performance including thrust vectoring and reversing of two-dimensional convergent-divergent nozzles
[NASA-TP-2253] 09 p1251 N84-18165
Effects of motion base and g-seat cueing of simulator pilot performance
[NASA-TP-2247] 09 p1255 N84-18189
Reconfigurable multivariable control law for commercial airplane using a direct digital output feedback design
[NASA-TM-85759] 09 p1257 N84-18206
Space Station Technology, 1983
[NASA-CP-2293] 09 p1268 N84-18277
Buckling of a sublaminate in a quasi-isotropic composite laminate
[NASA-TM-85755] 09 p1275 N84-18325
Structural efficiency studies of corrugated compression panels with curved caps and beaded webs
[NASA-TP-2272] 09 p1329 N84-18675
Concepts for improving the damage tolerance of composite compression panels
[NASA-TM-85748] 09 p1329 N84-18678
Airborne measurements of launch vehicle effluent of STS-2 launch on November 12, 1981 at Cape Canaveral, Florida
[NASA-TP-2260] 09 p1342 N84-18764
Aircraft and background noise annoyance effects
[NASA-TM-85744] 09 p1386 N84-19051
Noise-reduction measurements of stiffened and unstiffened cylindrical models of an airplane fuselage
[NASA-TM-85716] 09 p1386 N84-19052
Scientific and technical information output of the Langley Research Center
[NASA-TM-85735] 09 p1399 N84-19137
Delta wings with shock-free cross flow
[NASA-CR-172297] 10 p1419 N84-19282
On the stability of an infinite swept attachment line boundary layer
[NASA-CR-172300] 10 p142J N84-19285
Convergence of generalized MUSCL schemes
[NASA-CR-172306] 10 p1420 N84-19286
Tests of a NACA 65(sub 1)-213 airfoil in the NASA Langley 0.3-meter transonic cryogenic tunnel
[NASA-TM-85732] 10 p1420 N84-19287
Steady internal flow and aerodynamic loads analysis of shuttle thermal protection system
[NASA-TP-2255] 10 p1439 N84-19393
A manned-machine space station construction concept
[NASA-TM-85762] 10 p1439 N84-19395
Repeatability of mixed-mode adhesive debonding
[NASA-TM-85753] 10 p1464 N84-19565
Experimental and theoretical deposition rates from salt-seeded combustion gases of a Mach 0.3 burner rig
[NASA-TP-2225] 10 p1490 N84-19741
Experimental and analytical investigation of active loads control for aircraft landing gear
10 p1510 N84-19886
Evaluation of ride quality prediction methods for helicopter interior noise and vibration environments
[NASA-TP-2261] 10 p1549 N84-20155
Institute for Computer Applications in Science and Engineering (ICASE)
[NASA-CR-172304] 10 p1556 N84-20195
Efficient spares matrix multiplication scheme for the CYBER 203 10 p1561 N84-20225
Spectral methods in time for hyperbolic equations
[NASA-CR-172302] 10 p1568 N84-20274
Newton like: Minimal residual methods applied to transonic flow calculations
[NASA-CR-172305] 10 p1568 N84-20275

Atlas of high resolution infrared spectra of carbon dioxide
[NASA-TM-85764] 10 p1576 N84-20325

Generalization of the subsonic kernel function in the s-plane, with applications to flutter analysis
[NASA-TP-2292] 11 p1600 N84-20480

Entropy condition satisfying approximations for the full potential equations of transonic flow
[NASA-TM-85751] 11 p1601 N84-20485

Wing planform effects at supersonic speeds for an advanced fighter configuration
[NASA-TP-2269] 11 p1601 N84-20486

Potential flow through a cascade of alternately displaced circular bodies: The rod-wall wind tunnel boundary conditions
[NASA-TM-85750] 11 p1601 N84-20487

Wingtip vortex propeller
[NASA-CASE-LAR-13019-1] 11 p1602 N84-20495

Aircraft control position indicator
[NASA-CASE-LAR-12984-1] 11 p1607 N84-20522

NASA Aircraft Controls Research, 1983
[NASA-CP-2296] 11 p1615 N84-20567

Large aircraft handling qualities
11 p1615 N84-20570

Implications of control technology on aircraft design
11 p1615 N84-20573

Reliability and maintainability assessment factors for reliable fault-tolerant systems 11 p1616 N84-20574

Applications of model structure determination to flight test data 11 p1616 N84-20576

Application of fuel/time minimization techniques to route planning and trajectory optimization
11 p1616 N84-20578

Feedback laws for fuel minimization for transport aircraft 11 p1617 N84-20579

Tools for active control system design
11 p1617 N84-20582

Flight test results for the Digital Integrated Automatic Landing Systems (DIALS): A modern control full-state feedback design 11 p1618 N84-20589

Experiences with the design and implementation of flutter suppression systems 11 p1619 N84-20593

Construction concept for erecting an offset-fed antenna
[NASA-TM-85774] 11 p1623 N84-20626

Aerospace vehicle
[NASA-CASE-LAR-13155-1] 11 p1624 N84-20628

Improved impact tolerant material
[NASA-CASE-LAR-12887-1] 11 p1627 N84-20649

Effect of impact damage and open holes on the compression strength of tough resin/high strain fiber laminates
[NASA-TM-85756] 11 p1627 N84-20650

Process for improving moisture resistance of epoxy resins by addition of chromium ions
[NASA-CASE-LAR-13226-1] 11 p1636 N84-20700

Analysis of rectangular microstrip antennas
[NASA-TP-2276] 11 p1642 N84-20735

Performance of alkaline battery cells used in emergency locator transmitters
[NASA-TP-2277] 11 p1646 N84-20759

Tensile testing apparatus
[NASA-CASE-LAR-13243-1] 11 p1656 N84-20804

Optimized bolted joint
[NASA-CASE-LAR-13250-1] 11 p1664 N84-20859

Static and dynamic structural-sensitivity derivative calculations in the finite-element-based Engineering Analysis Language (EAL) system
[NASA-TM-85743] 11 p1668 N84-20880

Method for thermal monitoring subcutaneous tissue
[NASA-CASE-LAR-13028-1] 11 p1694 N84-21053

Stability of finite difference models containing two boundaries or interfaces
[NASA-CR-172319] 11 p1712 N84-21165

Ultrasonic angle beam standard reflector
[NASA-CASE-LAR-13153-1] 11 p1728 N84-21274

Test-engine and inlet performance of an aircraft used for investigating flight effects on fan noise
[NASA-TP-2254] 11 p1729 N84-21277

Mean excitation energies for stopping powers in various materials using local plasma oscillator strengths
[NASA-TP-2271] 11 p1760 N84-21485

Transonic calculation of airfoil stability and response with active controls
[NASA-TM-85770] 12 p1765 N84-21513

Wind-tunnel investigation of an advanced general aviation canard configuration
[NASA-TM-85760] 12 p1769 N84-21539

Simulation of a cockpit-display concept for executing a wake-vortex avoidance procedure
[NASA-TP-2300] 12 p1770 N84-21542

Hot melt adhesive pad surface attachment assembly concept for on-orbit operations
[NASA-TM-85771] 12 p1777 N84-21598

Operational modules for space station construction
[NASA-TM-85772] 12 p1779 N84-21608

Edge crack growth of thermally aged graphite/polyimide composites
[NASA-TM-85763] 12 p1789 N84-21667

Survey of NASA research on crash dynamics
[NASA-TP-2298] 12 p1826 N84-21901

A user-oriented and computerized model for estimating vehicle ride quality
[NASA-TP-2299] 12 p1866 N84-22162

Dose in critical body organs in low Earth orbit
[NASA-TM-85778] 12 p1867 N84-22169

Computer-Aided Geometry Modeling
[NASA-CP-2272] 12 p1869 N84-22179

Surface grid generation for wing-fuselage bodies
12 p1870 N84-22186

Interactive geometry modeling of space station conceptual designs 12 p1871 N84-22191

An intersection algorithm for moving parts
12 p1871 N84-22193

Interactive modeling using the PATRAN-G program
12 p1872 N84-22201

Interactive graphics for quick-geometry modeling
12 p1872 N84-22202

Mathematical synthesization of complex structures
12 p1876 N84-22224

Geometric modeling of large space antenna deployment 12 p1876 N84-22225

Cumulative reports and publications through 31 December 1983
[NASA-CR-172326] 12 p1876 N84-22226

IPAD 2: Advances in Distributed Data Base Management for CAD/CAM
[NASA-CP-2301] 12 p1889 N84-22299

Management of CAD/CAM information: Key to improved manufacturing productivity 12 p1889 N84-22300

On the grid generation methods in harmonic mapping on plane and curved surfaces
[NASA-CR-172331] 12 p1893 N84-22327

Study of stator-vane fluctuating pressures in a turbofan engine for static and flight tests
[NASA-TP-2217] 12 p1898 N84-22363

An abrasion-ablation model description of galactic heavy-ion fragmentation
[NASA-TP-2305] 12 p1903 N84-22396

Optical Information Processing for Aerospace Applications 2
[NASA-CP-2302] 12 p1904 N84-22402

Image-plane processing for improved computer vision
12 p1904 N84-22404

Systolic triple-matrix product calculations
12 p1906 N84-22419

Slotted variable camber flap
[NASA-CASE-LAR-12541-1] 13 p1930 N84-22551

Development and analysis of a STOL supersonic cruise fighter concept
[NASA-TM-85777] 13 p1930 N84-22553

Numerical predictions of residence times behind a rearward facing step with transverse injection
13 p1951 N84-22687

Thermoset-thermoplastic aromatic polyamide containing N-propargyl groups
[NASA-CASE-LAR-12723-2] 13 p1962 N84-22746

Ethynyl and substituted ethynyl-terminated polysulfones
[NASA-CASE-LAR-12931-1] 13 p1962 N84-22747

Polyphenylene ethers with imide linking groups
[NASA-CASE-LAR-12980-1] 13 p1962 N84-22749

An analysis of shock coalescence including three-dimensional effects with application to sonic boom extrapolation
[NASA-TP-2214] 13 p1988 N84-22906

Hybrid perturbation/Bubnov-Galerkin technique for nonlinear thermal analysis
[NASA-TP-2145] 13 p1988 N84-22907

Ultrasonic transducer with Gaussian radial pressure distribution
[NASA-CASE-LAR-12967-1] 13 p1993 N84-22932

Acoustic ground impedance meter
[NASA-CASE-LAR-12995-1] 13 p1993 N84-22933

Prediction of fatigue crack-growth patterns and lives in three-dimensional cracked bodies
[NASA-TM-85787] 13 p2000 N84-22979

Photoelectrochemical cells including chalcogenophosphate photoelectrodes
[NASA-CASE-LAR-12958-1] 13 p2007 N84-23019

Operational experience with the National Transonic Facility 14 p2094 N84-23565

High Reynolds number tests of the cast 10-2/DOA2 transonic airfoil at ambient and cryogenic temperature conditions 14 p2096 N84-23575

An evaluation of factors affecting the flow quality in wind tunnels 14 p2096 N84-23577

A model for reaction rates in turbulent reacting flows
[NASA-TM-85746] 14 p2110 N84-23650

Effect of aerodynamic and angle-of-attack uncertainties on the blended entry flight control system of the Space Shuttle from Mach 10 to 2.5
[NASA-TP-2283] 14 p2110 N84-23652

Low-speed wind-tunnel study of the high-angle-of-attack stability and control characteristics of a cranked-arrow-wing fighter configuration
[NASA-TM-85776] 14 p2110 N84-23654

Decoupled control analysis of a large flexible space antenna with linear quadratic regulator comparisons
[NASA-TP-2293] 14 p2115 N84-23675

Fracture temperature and flaw growth in nitronic 40 at cryogenic temperatures
[NASA-TP-2312] 14 p2127 N84-23750

Evaluation tests of platinum resistance thermometers for a cryogenic wind tunnel application
[NASA-TM-85803] 14 p2148 N84-23865

Intensity and absorbed-power distribution in a cylindrical solar-pumped dye laser
[NASA-TP-2321] 14 p2150 N84-23878

Analytical results for postbuckling behavior of plates in compression and shear
[NASA-TM-85766] 14 p2157 N84-23922

An aeroelastician's perspective of wind tunnel and flight experiences with active control of structural response and stability
[NASA-TM-85761] 14 p2157 N84-23924

Stress-intensity factor equations for cracks in three-dimensional finite bodies subjected to tension and bending loads
[NASA-TM-85793] 14 p2157 N84-23925

Spectral methods for partial differential equations
[AD-P002960] 14 p2202 N84-24216

Aeropropulsive characteristics of nonaxisymmetric-nozzle thrust reversers at Mach numbers from 0 to 1.20
[NASA-TP-2306] 15 p2254 N84-24538

Long Duration Exposure Facility (LDEF). Mission 1 Experiments
[NASA-SP-473] 15 p2270 N84-24632

Introduction to Long-Duration Exposure Facility
15 p2270 N84-24633

Space exposure of composite materials for large space structures (A0134) 15 p2271 N84-24639

Exposure of spacecraft coatings (S0010)
15 p2273 N84-24648

LDEF thermal measurements system (P0003)
15 p2274 N84-24654

Interplanetary dust experiment (A0201)
15 p2277 N84-24671

Space debris impact experiment (S0001)
15 p2277 N84-24672

Meteoroid damage to spacecraft
15 p2277 N84-24673

Effect of space exposure on pyroelectric infrared detectors (A0135) 15 p2278 N84-24679

Phenoxy resins containing pendent ethynyl groups and cured resins therefrom
[NASA-CASE-LAR-13262-1] 15 p2300 N84-24805

The effect of matrix properties and fiber properties on impact failure mechanics 15 p2310 N84-24863

Latching mechanism for deployable-restowable columns
[NASA-CASE-LAR-13169-1] 15 p2343 N84-25063

The design and development of a solar tracking unit
15 p2348 N84-25090

A robust pseudo-inverse spectral filter applied to the Earth Radiation Budget Experiment (ERBE) scanning channels
[NASA-TM-85781] 15 p2370 N84-25219

Effects of simulated flight on the structure and noise of underexpanded jets
[NASA-TP-2308] 15 p2403 N84-25422

Installation noise measurements of model SR and CR propellers
[NASA-TM-85790] 15 p2403 N84-25425

Chopped molecular beam multiplexing system
[NASA-CASE-LAR-13174-1] 15 p2404 N84-25431

Molecular velocimetry using stimulated Raman spectroscopy
[NASA-TM-85808] 15 p2405 N84-25433

Reynolds number effects on pressure loss and turbulence characteristics of four tube-bundle heat exchangers
[NASA-TM-85807] 16 p2439 N84-25645

The ESA activities on future launchers
16 p2441 N84-25657

The next generation of reentry vehicles: NASA's view
16 p2441 N84-25658

Shuttle flight data analysis 16 p2441 N84-25659

An algorithm for maximum likelihood estimation using an efficient method for approximating sensitivities
[NASA-TP-2311] 16 p2451 N84-25717

Modification of NASA Langley 8 foot high temperature tunnel to provide a unique national research facility for hypersonic air-breathing propulsion systems
[NASA-TM-85783] 16 p2454 N84-25733
Dynamic characteristics of a space-station solar wing array
[NASA-TM-85780] 16 p2458 N84-25758
Space radiation effects on graphite-epoxy composite materials
[NASA-TM-85478] 16 p2460 N84-25769
Edge analyzing properties of center/surround response functions in cybernetic vision
[NASA-TM-85809] 16 p2484 N84-25927
Drag of two-dimensional small-amplitude symmetric and asymmetric wavy walls in turbulent boundary layers
[NASA-TP-2318] 16 p2486 N84-25944
Canonical solutions for unsteady flow fields
[NASA-TM-85812] 16 p2486 N84-25947
New technique for calibrating hydrocarbon gas flowmeters
[NASA-TM-85792] 16 p2495 N84-26007
Effect of preforming adherends on static and fatigue strength of bonded composite single-lap joints
[NASA-TP-2324] 16 p2501 N84-26053
An operating system for future aerospace vehicle computer systems
[NASA-TM-85784] 16 p2546 N84-26340
Noise generated by a propeller in a wake
[NASA-TM-85794] 16 p2553 N84-26382
Langley aeronautics and space test highlights, 1983
[NASA-TM-85806] 16 p2583 N84-26564
Natural laminar flow experiments on modern airplane surfaces
[NASA-TP-2256] 17 p2599 N84-26660
Aerodynamic design using numerical optimization
[NASA-TM-85550] 17 p2599 N84-26661
Spatial derivatives of flow quantities behind curved shocks of all strengths
[NASA-TM-85782] 17 p2600 N84-26665
Low-speed investigation of effects of wing leading- and trailing-edge flap deflections and canard incidence on a fighter configuration equipped with a forward-swept wing
[NASA-TM-85795] 17 p2600 N84-26667
Calculation of vertical and ramp-assisted takeoffs for supersonic cruise fighters
[NASA-TM-85818] 17 p2600 N84-26668
Support interference of wind tunnel models: A selective annotated bibliography
[NASA-TM-81909-SUPPL] 17 p2610 N84-26708
Aerothermal performance and damage tolerance of a Rene 41 metallic standoff thermal protection system at Mach 6.7
[NASA-TM-85773] 17 p2615 N84-26739
Selection of actuator locations for static shape control of large space structures by heuristic integer programing
[NASA-TM-85769] 17 p2616 N84-26741
A numerical study of the 2- and 3-dimensional unsteady Navier-Stokes equations in velocity-vorticity variables using compact difference schemes
[NASA-CR-172353] 17 p2667 N84-27004
Analysis of lateral and torsional vibration characteristics of beams and shafts with end located rotational masses
[NASA-TM-84593] 17 p2679 N84-27065
Stress decay in an orthotropic half-plane under self-equilibrating sinusoidal loading
[NASA-TM-85791] 17 p2679 N84-27066
Measurements of ocean wave spectra and modulation transfer function with the airborne two frequency scatterometer 17 p2715 N84-27282
Upset susceptibility study employing circuit analysis and digital simulation
[NASA-TM-85822] 17 p2733 N84-27374
Data and results of a laboratory investigation of microprocessor upset caused by simulated lightning-induced analog transients
[NASA-TM-85821] 17 p2733 N84-27376
Care 3: Hands-on demonstration and tutorial
[NASA-TM-85811] 17 p2749 N84-27448
STABCAR: A program for finding characteristic root systems having transcendental stability matrices
[NASA-TP-2165] 17 p2751 N84-27461
A new method for determining acoustic-liner admittance in a rectangular duct with grazing flow from experimental data
[NASA-TP-2310] 17 p2762 N84-27543
Advanced aerodynamics. Selected NASA research
[NASA-CP-2206] 18 p2783 N84-27660
Measured transonic unsteady pressures on an energy efficient transport wing with oscillating control surfaces 18 p2783 N84-27663
Status of advanced airfoil tests in the Langley 0.3-meter transonic cryogenic tunnel 18 p2783 N84-27664
Langley high-lift research on a high-aspect-ratio supercritical wing configuration 18 p2784 N84-27665
EET theoretical design techniques 18 p2784 N84-27666
Aerodynamic characteristics of 2 NASA supercritical airfoils with different maximum thickness
[NASA-TM-X-2532] 18 p2784 N84-27667
Bibliography of Supersonic Cruise Research (SCR) program from 1980 to 1983
[NASA-RP-1117] 18 p2785 N84-27674
Recent modifications and calibration of the Langley low-turbulence pressure tunnel
[NASA-TP-2328] 18 p2785 N84-27675
Effect of fuselage upwash on the supersonic longitudinal aerodynamic characteristics of 2 fighter configurations
[NASA-TP-2330] 18 p2785 N84-27676
Preliminary indications of water film distribution and thickness on an airfoil in a water spray
[NASA-TM-85796] 18 p2785 N84-27677
Unconventional missile concepts from consideration of varied mission requirements
[NASA-TM-85829] 18 p2785 N84-27679
Viscous-inviscid interaction method including wake effects for three-dimensional wing-body configurations
[NASA-TP-1910] 18 p2786 N84-27682
High Reynolds number tests of a Boeing BAC I airfoil in the Langley 0.3-meter transonic cryogenic tunnel
[NASA-TM-81922] 18 p2786 N84-27684
Two-dimensional aerodynamic characteristics of an airfoil designed for two
[NASA-TP-1965] 18 p2788 N84-27694
XSECT: A computer code for generating fuselage cross sections - user's manual
[NASA-TM-83218] 18 p2788 N84-27696
Heads up display
[NASA-CASE-LAR-12630-1] 18 p2795 N84-27733
Tension waves in tethered satellite cables
[NASA-TM-85799] 18 p2807 N84-27820
Delamination growth analysis in quasi-isotropic laminates under loads simulating low-velocity impact
[NASA-TM-85819] 18 p2809 N84-27833
An investigation of chemically-induced improvement in saturation moisture characteristics of epoxies
[NASA-TM-85826] 18 p2809 N84-27834
Interlaminar fracture of composites
[NASA-TM-85768] 18 p2809 N84-27835
Shell tile thermal protection system
[NASA-CASE-LAR-12862-1] 18 p2817 N84-27886
Investigation of fast initialization of spacecraft bubble memory systems
[NASA-TM-85832] 18 p2832 N84-27977
Thermoelectric temperature control system for the pushbroom microwave radiometer (PBMR)
[NASA-TM-85824] 18 p2836 N84-28000
Strain gage calibration
[NASA-CASE-LAR-12743-1] 18 p2839 N84-28019
Directional gear ratio transmissions
[NASA-CASE-LAR-12644-1] 18 p2848 N84-28084
Tubing and cable cutting tool
[NASA-CASE-LAR-12786-1] 18 p2848 N84-28085
VIBRA: An interactive computer program for steady-state vibration response analysis of linear damped structures
[NASA-TM-85789] 18 p2852 N84-28112
Radionuclide counting technique for measuring wind velocity and direction
[NASA-CASE-LAR-12971-1] 18 p2883 N84-28292
Medical clip
[NASA-CASE-LAR-12650-1] 18 p2899 N84-28388
Process of making medical clip
[NASA-CASE-LAR-12650-2] 18 p2899 N84-28389
Computer generated animation and movie production at LARC: A case study
[NASA-CR-172375] 18 p2917 N84-28494
Current and future graphics requirements for LaRC and proposed future graphics system
[NASA-TM-85726] 18 p2917 N84-28495
A comparison of two photogrammetric algorithms for the measurement of model deformation in the National Transonic Facility
[NASA-TM-85830] 18 p2919 N84-28513
CARE 3: Model overview and user's guide
[NASA-TM-85810] 18 p2920 N84-28514
An implementation of the programming structural synthesis system (PROSSS)
[NASA-TM-83180] 18 p2920 N84-28517
An implementation of the distributed programming structural synthesis system (PROSSS)
[NASA-TM-83253] 18 p2920 N84-28518
Regions of attraction and ultimate boundedness for linear quadratic regulators with nonlinearities
[NASA-TP-2322] 18 p2923 N84-28538
Kinematic control of robot with degenerate wrist
[NASA-TP-2341] 18 p2923 N84-28539
Scientific and technical training in the Soviet Union
[NASA-TM-86252] 18 p2954 N84-28725
Shapes for rotating airfoils
[NASA-CASE-LAR-12396-1] 19 p2956 N84-28732
Pressure distribution data from tests of 2.29-meter (7.5-ft.) span EET high-lift research model in Langley 4-by 7-meter tunnel
[NASA-TM-83111] 19 p2957 N84-28739
Two-dimensional aerodynamic characteristics of three rotorcraft airfoils at Mach numbers from 0.35 to 0.90
[NASA-TP-2000] 19 p2957 N84-28743
Calculation of unsteady aerodynamics for four AGARD standard aeroelastic configurations
[NASA-TM-85817] 19 p2958 N84-28747
Aerospace engineering design by systematic decomposition and multilevel optimization
[NASA-TM-85823] 19 p2962 N84-28775
An experimental and theoretical analysis of the aerodynamic characteristics of a biplane-winglet configuration
[NASA-TM-85815] 19 p2963 N84-28779
Space Shuttle separate-surface control-system study
[NASA-TP-2340] 19 p2967 N84-28801
Interactive systems design and synthesis of future spacecraft concepts
[NASA-TM-86254] 19 p2981 N84-28893
Conceptual design of a mobile remote manipulator system 19 p2982 N84-28894
Fastener load tests and retention systems tests for cryogenic wind-tunnel models
[NASA-TM-85805] 19 p2993 N84-28964
Sulfone-ester polymers containing pendent ethynyl groups
[NASA-CASE-LAR-13316-1] 19 p2996 N84-28987
Ethynyl-terminated ester oligomers and polymers therefrom
[NASA-CASE-LAR-13118-1] 19 p2997 N84-28988
An investigation of the existence of a surface water layer on aircraft radomes during simulated flight in heavy precipitation
[NASA-TM-85813] 19 p3003 N84-29035
The Goertler vortex instability mechanism in three-dimensional boundary layers
[NASA-CR-172370] 19 p3021 N84-29158
A spectral collocation method for the Navier-Stokes equations
[NASA-CR-172365] 19 p3021 N84-29159
Precision manipulator heating and cooling apparatus for use in UHV systems with sample transfer capability
[NASA-CASE-LAR-13040-1] 19 p3026 N84-29191
Structures and Dynamics Division research and technology plans for FY 1984 and accomplishments for FY 1982
[NASA-TM-85828] 19 p3034 N84-29245
Three-dimensional finite-element analysis of chevron-notched fracture specimens
[NASA-TM-85798] 19 p3035 N84-29249
Analysis of normalized radar cross section (sigma-O) signature of Amazon rain forest using SEASAT scatterometer data
[E84-10168] 19 p3039 N84-29278
Equivalent electron fluence for solar proton damage in GaAs shallow junction cells 19 p3046 N84-29324
Preliminary space station solar array structural design study 19 p3047 N84-29335
Physiological, Psychological, and Social Effects of Noise
[NASA-RP-1115] 19 p3069 N84-29465
Definitions of noise and noise pollution 19 p3069 N84-29466
Physical measures of sound and noise 19 p3069 N84-29467
Physiological functioning of the ear and masking 19 p3069 N84-29468
Speech communications in noise 19 p3069 N84-29469
Loudness, noisiness, and vibration effects 19 p3069 N84-29470
Presbycusis, sociocusis, and nosocusis 19 p3069 N84-29471
Noise-induced hearing loss and its prediction 19 p3069 N84-29472
Noise-induced hearing impairment and handicap 19 p3069 N84-29473
Mental and psychomotor task performance in noise 19 p3069 N84-29474
Nonauditory-system response to noise and effects on health 19 p3070 N84-29475
Reactions to community noise 19 p3070 N84-29476
Guidelines for assessment and control of noise 19 p3070 N84-29477
Human exposure in low Earth orbit
[NASA-TP-2344] 19 p3070 N84-29479
Production version of the extended NASA-Langley vortex lattice FORTRAN computer program. Volume 2: Source code
[NASA-TM-83304] 19 p3073 N84-29500
A new minimax algorithm
[NASA-CR-172382] 19 p3074 N84-29503

Solution of a tridiagonal system of equations on the finite element machine
[NASA-TM-85710] 19 p3080 N84-29543
Management of CAD/CAM information: Key to improved manufacturing productivity
[NASA-TM-86255] 19 p3080 N84-29545
A modified least squares formulation for a system of first order equations
[NASA-CR-172372] 19 p3082 N84-29557
Conjugate gradient coupled with multigrid for an indefinite problem
[NASA-CR-172379] 19 p3082 N84-29558
TVD finite difference schemes and artificial viscosity
[NASA-CR-172373] 19 p3082 N84-29559
Spectral methods for exterior elliptic problems
[NASA-CR-172380] 19 p3082 N84-29560
Estimation of coefficients and boundary parameters in hyperbolic systems
[NASA-CR-172389] 19 p3082 N84-29562
The semi-Markov unreliability range evaluator program
[NASA-TM-86261] 19 p3093 N84-29640
A numerical scheme for the identification of hybrid systems describing the vibration of flexible beams with tip bodies
[NASA-CR-172388] 19 p3095 N84-29655
Rotorcraft noise
[NASA-CP-2234] 19 p3096 N84-29662
Psychoacoustic considerations for helicopter noise quantification: Metrics, human response and criteria
19 p3098 N84-29675
Rotorcraft noise prediction 19 p3098 N84-29677
Rotor noise prediction technology: Theoretical approach 19 p3098 N84-29678
Some aerodynamic discoveries and related NACA/NASA research programs following World War 2
[NASA-TM-86258] 20 p3125 N84-29847
Acceleration to a steady state for the Euler equations
[NASA-CR-172396] 20 p3126 N84-29852
Field repair of AH-16 helicopter window cutting assemblies
[NASA-TM-85831] 20 p3128 N84-29864
User's manual for a fuel-conservative descent planning algorithm implemented on a small programmable calculator
[NASA-TM-86275] 20 p3129 N84-29871
Design of a candidate flutter suppression control law for DAST ARW-2
[NASA-TM-86257] 20 p3131 N84-29883
Heat transfer and oil flow studies on a single-stage-to-orbit control-configured winged entry vehicle
[NASA-TM-85833] 20 p3133 N84-29897
Approximation techniques for parameter estimation and feedback control for distributed models of large flexible structures
[NASA-CR-172411] 20 p3135 N84-29903
Propulsion options for orbit-on-demand
20 p3136 N84-29915
Rapid adhesive bonding concepts
[NASA-TM-86256] 20 p3145 N84-29968
ACEE Composite Structures Technology: Review of selected NASA research on composite materials and structures
[NASA-CP-2321] 20 p3145 N84-29969
Residual-strength tests of L-1011 vertical fin components after 10 and 20 years of simulated flight service 20 p3145 N84-29970
Worldwide flight and ground-based exposure of composite materials 20 p3145 N84-29971
Comparison of toughened composite laminates using NASA standard damage tolerance tests
20 p3145 N84-29972
Synthesis and toughness properties of resins and composites 20 p3146 N84-29973
Tensile strength of composite sheets with unidirectional stringers and crack-like damage
20 p3146 N84-29974
Impact dynamics research on composite transport structures 20 p3146 N84-29975
Postbuckling behavior of graphite-epoxy panels
20 p3146 N84-29976
Studies of noise transmission in advanced composite material structures 20 p3146 N84-29977
Grain-refining heat treatments to improve cryogenic toughness of high-strength steels
[NASA-TM-85816] 20 p3152 N84-30014
Methods for analysis of cracks in three-dimensional solids
[NASA-TM-86266] 20 p3201 N84-30330
Fatigue and Fracture Branch: A compendium of recently completed and on-going research projects
[NASA-TM-85825] 20 p3201 N84-30331
Stratospheric NO and NO2 profiles at sunset from analysis of high-resolution balloon-borne infrared solar absorption spectra obtained at 33 deg N and calculations with a time-dependent photochemical model
[NASA-TM-86285] 20 p3240 N84-30566
Global Biology Research Program: Biogeochemical Processes in Wetlands
[NASA-CP-2316] 20 p3256 N84-30665
Executive summary: Background
20 p3256 N84-30666
Geographic distribution of wetland parameters: The foundation of a data base 20 p3256 N84-30667
A framework for wetlands research: Development of a wetlands data base 20 p3256 N84-30668
Augmenting computer networks
[NASA-CR-172399] 20 p3277 N84-30800
Spectral methods for compressible flow problems
[NASA-CR-172395] 20 p3279 N84-30816
Singular value decomposition with systolic arrays
[NASA-CR-172396] 20 p3279 N84-30817
Legendre-tau approximation for functional differential equations. Part 2: The linear quadratic optimal control problem
[NASA-CR-172397] 20 p3280 N84-30818
A route generator concept for aircraft onboard fault monitoring
[NASA-TM-86264] 21 p3326 N84-31104
Fiber optics for the future - wavelength division multiplexing
[AD-P003579] 21 p3339 N84-31184
Effect of external pressure environment on the internal noise level due to a source inside a cylindrical tank
[NASA-TM-85814] 21 p3346 N84-31226
Aerothermal loads analysis for high speed flow over a quilted surface configuration
[NASA-TM-86280] 21 p3399 N84-31560
Electroless-plating technique for fabricating thin-wall convective heat-transfer models
[NASA-TP-2349] 21 p3399 N84-31561
A blackbody-pumped CO2-N2 transfer laser
[NASA-TP-2347] 21 p3408 N84-31617
Active controls: A look at analytical methods and associated tools
[NASA-TM-86269] 21 p3419 N84-31684
Large deflections of circular isotropic membranes subjected to arbitrary axisymmetric loading
[NASA-TM-86271] 21 p3419 N84-31686
A model of asynchronous iterative algorithms for solving large, sparse, linear systems
[NASA-CR-172418] 21 p3469 N84-31988
Flux-vector splitting and Runge-Kutta methods for the Euler equations
[NASA-CR-172415] 21 p3470 N84-31993
Annoyance caused by propeller airplane flyover noise
[NASA-TP-2356] 21 p3491 N84-32124
Subsonic and transonic unsteady- and steady-pressure measurements on a rectangular supercritical wing oscillated in pitch
[NASA-TM-85765] 22 p3530 N84-32348
Fast solutions to the steady state compressible and incompressible fluid dynamic equations
[NASA-CR-172416] 22 p3530 N84-32349
Experience with transonic unsteady aerodynamic calculations
[NASA-TM-86278] 22 p3530 N84-32353
Fuselage and nozzle pressure distributions of a 1/12-scale F-15 propulsion model at transonic speeds. Effect of fuselage modifications and nozzle variables
[NASA-TP-2333] 22 p3531 N84-32354
Lightning swept-stroke attachment patterns and flight conditions for storm hazards 1981
[NASA-TM-86279] 22 p3532 N84-32365
Validation of an Active Gear, Flexible Aircraft Take-off and Landing analysis (AGFATL)
[NASA-TP-2353] 22 p3534 N84-32378
Aircraft liftmeter
[NASA-CASE-LAR-12518-1] 22 p3535 N84-32383
Structural performance of orthogonal tetrahedral truss Space-Station configurations
[NASA-TM-86260] 22 p3542 N84-32422
Hole interaction and load introduction effects for compression-loaded laminates with holes
[NASA-TM-86287] 22 p3544 N84-32435
Failure analysis of a graphite/epoxy laminate subjected to bolt bearing loads
[NASA-TM-86297] 22 p3544 N84-32436
A study of the effects of end-cap molecular species on environmental characteristics of polimidesulfones
[NASA-TM-86283] 22 p3544 N84-32437
A simple rectangular element for 2-dimensional analysis of laminated composites
[NASA-TM-86291] 22 p3544 N84-32439
A system for controlling the oxygen content of a gas produced by combustion
[NASA-CASE-LAR-13257-1] 22 p3546 N84-32447
Response of Inconel 617 superalloy to combined ground-based and STS reentry exposure
[NASA-TM-86293] 22 p3554 N84-32505
Residual mechanical properties of Ti-6Al-4V after simulated Space Shuttle reentry
[NASA-TM-86294] 22 p3554 N84-32506
Effect of alloy chemistry and exposure conditions on the oxidation of titanium
[NASA-TM-86295] 22 p3555 N84-32507
Structural pressure sensitive silicone adhesives
[NASA-CASE-LAR-13270-1] 22 p3558 N84-32532
Technique for measuring gas conversion factors
[NASA-CASE-LAR-13220-1] 22 p3598 N84-32786
Volumetric fuel quantity gauge
[NASA-CASE-LAR-13147-1] 22 p3598 N84-32787
Aircraft landing dynamics facility carriage weld test program
[NASA-TM-85802] 22 p3603 N84-32827
Opening of an interface flaw in a layered elastic half-plane under compressive loading
[NASA-TM-86282] 22 p3611 N84-32877
Proceedings of a Workshop on Polar Stratospheric Clouds: Their Role in Atmospheric Processes
[NASA-CP-2318] 22 p3622 N84-32952
Summary of research in applied mathematics, numerical analysis and computer science at the Institute for Computer Applications in Science and Engineering
[NASA-CR-172421] 22 p3633 N84-33024
The well-posedness of the Kuramoto-Sivashinsky equation
[NASA-CR-172431] 22 p3637 N84-33053
On the impact of communication complexity in the design of parallel numerical algorithms
[NASA-CR-172436] 22 p3637 N84-33059
Parameter estimation for the Euler-Bernoulli-beam
[NASA-CR-172417] 22 p3645 N84-33107
The exponential accuracy of Fourier and Tchebyshev differencing methods
[NASA-CR-172435] 22 p3645 N84-33108
On accuracy conditions for the numerical computation of waves
[NASA-CR-172433] 22 p3645 N84-33111
Numerical solutions of acoustic wave propagation problems using Euler computations
[NASA-CR-172434] 22 p3645 N84-33112
The time evolution of spectral discretizations of hyperbolic systems
[NASA-CR-172432] 22 p3645 N84-33113
Langley experience with ADABAS/NATURAL
22 p3671 N84-33272
Strip and load data 22 p3672 N84-33273
NATURAL graphics 22 p3672 N84-33274
Asynchronous file transfer to IBM PC's
22 p3672 N84-33275
Status tracking system for reports
22 p3672 N84-33276
NASA metrology information system: A NEMS subsystem 22 p3672 N84-33279
Langley's views on NEMS 22 p3672 N84-33280
LaRC local area networks to support distributed computing 22 p3673 N84-33281
Aerodynamic design of the contoured wind-tunnel liner for the NASA supercritical, laminar-flow-control, swept-wing experiment
[NASA-TP-2335] 23 p3688 N84-33377
An experimental and theoretical investigation of deposition patterns from an agricultural airplane
[NASA-TP-2348] 23 p3689 N84-33379
High Reynolds number tests of the cast 10-2/DOA 2 airfoil in the Langley 0.3-meter transonic cryogenic tunnel, phase 2
[NASA-TM-86273] 23 p3689 N84-33382
Data from tests of a R4 airfoil in the Langley 0.3-meter transonic cryogenic tunnel
[NASA-TM-85739] 23 p3690 N84-33385
Helicopter anti-torque system using strakes
[NASA-CASE-LAR-13233-1] 23 p3692 N84-33400
Curved cap corrugated sheet
[NASA-CASE-LAR-12884-1] 23 p3700 N84-33450
Galactic heavy-ion shielding using electrostatic fields
[NASA-TM-86265] 23 p3700 N84-33453
Compression failure mechanisms in unidirectional composites
[NASA-TM-85834] 23 p3711 N84-33523
Analysis of instability-related growth of a through-width delamination
[NASA-TM-86301] 23 p3711 N84-33524
Development of a 611 MHz feed for a 9-meter reflector
[NASA-TM-86300] 23 p3730 N84-33641
Theoretical and experimental studies of error in square-law detector circuits
[NASA-TM-86307] 23 p3741 N84-33714
A formulation of rotor-airframe coupling for design analysis of vibrations of helicopter airframes
[NASA-RP-1089] 23 p3760 N84-33832

A review of chevron-notched fracture specimens
[NASA-TM-85797] 23 p3760 N84-33834
SASS 1 model function evaluation and upgrade
23 p3778 N84-33956
Combined effect of noise and vibration on passenger acceptance
[NASA-TM-86284] 23 p3810 N84-34161
Validation of a fault-tolerant clock synchronization system
[NASA-TP-2346] 23 p3816 N84-34198
Software Implemented Fault-Tolerant (SIFT) user's guide
[NASA-TM-86289] 23 p3817 N84-34199
Rational-spline approximation with automatic tension adjustment
[NASA-TP-2366] 23 p3817 N84-34204
Ground vibration test of F-16 airplane with initial decoupler pylon
[NASA-TM-86259] 24 p3854 N84-34439
Model mount system for testing flutter
[NASA-CASE-LAR-12950-1] 24 p3856 N84-34448
Fabrication of glass gas cells for the HALOE and MAPS satellite experiments
[NASA-TM-86302] 24 p3866 N84-34501
Process for improving mechanical properties of epoxy resins by addition of cobalt ions
[NASA-CASE-LAR-13230-1] 24 p3878 N84-34571
Ground exposure of composite materials for helicopters
[NASA-TM-86311] 24 p3879 N84-34577
Melt-flow-toughness modified polyimide
[NASA-CASE-LAR-13135-1] 24 p3887 N84-34616
Spaceborne lidar investigations of the atmosphere
24 p3907 N84-34743
An ER-2 aircraft airborne lidar as part of the development program of a spaceborne system: A potential NASA/CNES cooperative project 24 p3907 N84-34744
Mixed models and recugion techniques for large-rotation, nonlinear analysis of shells of revolution with application to tires
[NASA-TP-2343] 24 p3912 N84-34773
GASP cloud- and particle-encounter statistics and their application to LPC aircraft studies. Volume 1: Analysis and conclusions
[NASA-TM-85835] 24 p3923 N84-34828

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION. LEWIS RESEARCH CENTER, CLEVELAND, OHIO.

Aircraft Electric Secondary Power
[NASA-CP-2282] 01 p0009 N84-10055
Three-phase, high-voltage, high-frequency distributed bus system for advanced aircraft
01 p0010 N84-10058
Application of advanced materials to rotating machines 01 p0010 N84-10063
Intercalated graphite electrical conductors
01 p0010 N84-10064
New developments in power semiconductors
01 p0011 N84-10065
Lightweight, high-frequency transformers
01 p0011 N84-10066
High-current, high-frequency capacitors
01 p0011 N84-10067
All-purpose bidirectional four-quadrant controller
01 p0011 N84-10070
Resin selection criteria for tough composite structures
[NASA-TM-83449] 01 p0048 N84-10310
A comparison of the domestic satellite communications forecast to the year 2000
[NASA-TM-83516] 01 p0062 N84-10405
Examination, evaluation and repair of laminated wood blades after service on the Mod-OA wind turbine
[NASA-TM-83483] 01 p0102 N84-10664
Economic competitiveness of fuel cell onsite integrated energy systems
[NASA-TM-83403] 01 p0102 N84-10665
Matrix effects in ion-induced emission as observed in Ne collisions with Cu-Mg and Cu-Al alloys
[NASA-TM-83061] 01 p0141 N84-10923
F100 multivariable control synthesis program. Computer implementation of the F100 multivariable control algorithm
[NASA-TP-2231] 02 p0180 N84-11171
Resistojet propulsion for large spacecraft systems
[NASA-TM-83489] 02 p0186 N84-11206
Size scale effect in cavitation erosion
[NASA-TM-83533] 02 p0193 N84-11254
A review of the use of wear-resistant coatings in the cutting-tool industry
[NASA-TM-83512] 02 p0199 N84-11295
Overview of liquid lubricants for advanced aircraft
[NASA-TM-83529] 02 p0199 N84-11296
Geometric models, antenna gains, and protection ratios as developed for BC SAT-R2 conference software
[NASA-TM-83381] 02 p0208 N84-11358
The subjective effect of multiple co-channel frequency modulated television interference
[NASA-TM-83415] 02 p0208 N84-11360
Hybrid power semiconductor switch
[NASA-CASE-LEW-13922-1] 02 p0212 N84-11389
Application of laser anemometry in turbine engine research
[NASA-TM-83513] 02 p0222 N84-11456
Numerical methods and computers used in elastohydrodynamic lubrication
[NASA-TM-83524] 02 p0228 N84-11498
Special cases of friction and applications
[NASA-TM-83523] 02 p0229 N84-11500
Wide range weight functions for the strip with a single edge crack
[NASA-TM-83478] 02 p0231 N84-11512
NASA redox storage system development project, calendar year 1982
[NASA-TM-83469] 02 p0241 N84-11579
Bacterial degradation of polychlorinted biphenyls in sludge from an industrial sewer lagoon
[NASA-TM-83543] 02 p0243 N84-11594
Embedding methods for the steady Euler equations
[NASA-TM-83481] 02 p0279 N84-11831
Correlation of flight effects on centerline velocity decay for cold-flow acoustically excited jets
[NASA-TM-83502] 02 p0287 N84-11883
Cross spectra between pressure and temperature in a constant-area duct downstream of a hydrogen-fueled combustor
[NASA-TM-83463] 02 p0287 N84-11885
A generalized computer code for developing dynamic gas turbine engine models (DIGTEM)
[NASA-TM-83506] 03 p0333 N84-12166
Some comments on longevity by a technologist
03 p0346 N84-12247
Solid impingement erosion mechaniams and characterization of erosion resistance of ductile metals
[NASA-TM-83492] 03 p0352 N84-12287
A multistage spent particle collector and a method for making same
[NASA-CASE-LEW-13914-1] 03 p0376 N84-12447
A graphics subsystem retrofit design for the bladed-disk data acquisition system
[NASA-TM-83510] 03 p0418 N84-12730
A real-time implementation of an advanced sensor failure detection, isolation, and accommodation algorithm
[NASA-TM-83553] 04 p0477 N84-13140
Performance degradation of a typical twin engine commuter type aircraft in measured natural icing conditions
[NASA-TM-83564] 04 p0483 N84-13173
Flame radiation and liner heat transfer in a tubular-can combustor
[NASA-TM-83538] 04 p0485 N84-13186
Three-dimensional viscous design methodology for advanced technology aircraft supersonic inlet systems
[NASA-TM-83558] 04 p0485 N84-13190
INHYD: Computer code for intraply hybrid composite design. A users manual
[NASA-TP-2239] 04 p0491 N84-13224
Replacing critical and strategic refractory metal elements in nickel-base superalloys
[NASA-TM-83528] 04 p0498 N84-13264
Microwave monolithic integrated circuit development for future spaceborne phased array antennas
[NASA-TM-83518] 04 p0517 N84-13399
A system for the simulation and evaluation of satellite communication networks
[NASA-TM-83531] 04 p0517 N84-13400
Computation of viscous flow in curved ducts and comparison with experimental data
[NASA-TM-83548] 04 p0532 N84-13494
Measurement of rolling friction by a damped oscillator
[NASA-TP-2257] 04 p0543 N84-13577
An improved finite-difference analysis of uncoupled vibrations of tapered cantilever beams
[NASA-TM-83495] 04 p0548 N84-13610
MOD-2 wind turbine development
[NASA-TM-83460] 04 p0557 N84-13670
PREWATE: An interactive preprocessing computer code to the Weight Analysis of Turbine Engines (WATE) computer code
[NASA-TM-83545] 04 p0578 N84-13812
Acceleration of convergence of vector sequences
[NASA-TP-2193] 04 p0588 N84-13885
On some flow characteristics of conventional and excited jets
[NASA-TM-83503] 04 p0594 N84-13922
Inverted velocity profile semi-annular nozzle jet exhaust noise experiments
[NASA-TM-83525] 04 p0595 N84-13924
Research and technology, 1983
[NASA-TM-83540] 04 p0615 N84-14061
Fiberoptics for propulsion control system
[NASA-TM-83542] 05 p0625 N84-14111
Design and performance of a fixed, nonaccelerating, guide vane cascade that operates over an inlet flow angle range of 80 deg
[NASA-TM-83519] 05 p0626 N84-14120
Multicomponent velocity measurement in a pison-cylinder configuration using laser velocimetry
[NASA-TM-83534] 05 p0627 N84-14121
Ceramic composite liner material for gas turbine combustors
[NASA-TM-83490] 05 p0631 N84-14145
A review of NASA combustor and turbine heat transfer research
[NASA-TM-83541] 05 p0631 N84-14146
Flow visualization and interpretation of visualization data for deflected thrust V/STOL nozzles
[NASA-TM-83554] 05 p0631 N84-14147
Topological reaction rate measurements related to scoffing
[NASA-TM-83486] 05 p0652 N84-14288
Particulate erosion mechanisms
[NASA-TM-83551] 05 p0652 N84-14289
Additive for zinc electrodes
[NASA-CASE-LEW-13286-1] 05 p0673 N84-14422
Heat transfer distributions around nominal ice accretion shapes formed on a cylinder in the NASA Lewis icing research tunnel
[NASA-TM-83557] 05 p0679 N84-14463
A dynamic analysis of rotary combustion engine seals
[NASA-TM-83536] 05 p0688 N84-14519
Complexities of high temperature metal fatigue: Some steps toward understanding
[NASA-TM-83507] 05 p0691 N84-14541
A simplified method for elastic-plastic-creep structural analysis
[NASA-TM-83509] 05 p0692 N84-14542
Use of the WEST-1 wind turbine simulator to predict blade fatigue load distribution
[NASA-TM-83532] 05 p0699 N84-14586
A possible explanation for the present difference between linear noise theory and experimental data for supersonic helical tip speed propellers
[NASA-TM-83467] 05 p0742 N84-14874
Silicon carbide, a high temperature semiconductor
[NASA-TM-83514] 05 p0752 N84-14932
Downsizing assessment of automotive Stirling engines
[NASA-TM-83468] 05 p0761 N84-14989
Generation of sound in turbulent shear flows
06 p0768 N84-15031
Detroit space odessey
[NASA-TM-85487] 06 p0792 N84-15164
Arc spray fabrication of metal matrix composite monotape
[NASA-CASE-LEW-13828-1] 06 p0798 N84-15203
Evaluation of CO2 and CO dopants in hydrogen to reduce hydrogen permeation in the Stirling engine heater head tube alloy CG-27
[NASA-TM-83535] 06 p0805 N84-15246
Tensile and compressive constitutive response of 316 stainless steel at elevated temperatures
[NASA-TM-83506] 06 p0805 N84-15249
Performance of computer-designed small-size multistage depressed collectors for a high-perveance traveling wave tube
[NASA-TP-2248] 06 p0829 N84-15394
Fluid shielding of high-velocity jet noise
[NASA-TP-2259] 06 p0907 N84-15894
Cleveland Space Odyssey
[NASA-TM-85493] 06 p0927 N84-16020
Chicago Meets Outer Space program
[NASA-TM-85492] 06 p0927 N84-16021
Aeronautical propulsion: Present status and future directions
[NASA-TM-83589] 07 p0943 N84-16119
Analytical study of blowing boundary-layer control for subsonic V/STOL inlets
[NASA-TM-83576] 07 p0946 N84-16141
Assessment of three-dimensional inviscid codes and loss calculations for turbine aerodynamic computations
[NASA-TM-83571] 07 p0947 N84-16142
Dynamic behavior of spiral-groove and Rayleigh-Step self-acting face seals
[NASA-TP-2266] 07 p0953 N84-16181
HYTESS: A hypothetical turbofan engine simplified simulation
[NASA-TM-83561] 07 p0954 N84-16184
Digital computer program for generating dynamic turbofan engine models (DIGTEM)
[NASA-TM-83446] 07 p0954 N84-16185
Design concepts for low-cost composite engine frames
[NASA-TM-83544] 07 p0954 N84-16186
End-wall boundary layer measurements in a two-stage fan 07 p0957 N84-16208
Electromagnetic propulsion test facility
[NASA-TM-83568] 07 p0961 N84-16229

Centaur D-1A guidance/software system
[NASA-TM-83552] 07 p0962 N84-16234

Radiating dipole model of interference induced in spacecraft circuitry by surface discharges
[NASA-TP-2240] 07 p0964 N84-16247

Oxidation resistant slurry coating for carbon-based materials
[NASA-CASE-LEW-13923-1] 07 p0967 N84-16266

Micronized coal burner facility
[NASA-CASE-LEW-13426-1] 07 p0969 N84-16276

Application of induction coil measurements to the study of superalloy hot corrosion and oxidation
[NASA-TM-83560] 07 p0974 N84-16311

Friction and morphology of magnetic tapes in sliding contact with nickel-zinc ferrite
[NASA-TP-2267] 07 p0977 N84-16334

Characteristic morphological and frictional changes in sputtered MoS/sub 2 films
[NASA-TM-83565] 07 p0985 N84-16380

Ladder supported ring bar circuit
[NASA-CASE-LEW-13570-1] 07 p0995 N84-16452

Development of an instrument for real-time computation of indicated mean effective pressure
[NASA-TP-2236] 07 p0997 N84-16461

Some inelastic effects of thermal cycling on yttria-stabilized zirconia
[NASA-TM-83488] 07 p1001 N84-16492

Advanced high temperature heat flux sensors
[NASA-TM-83526] 07 p1001 N84-16493

Effects of broadened property fuels on radiant heat flux to gas turbine combustor liners
[NASA-TM-83537] 07 p1001 N84-16494

Flutter of swept fan blades
[NASA-TM-83547] 07 p1015 N84-16587

Improved finite-difference vibration analysis of pretwisted, tapered beams
[NASA-TM-83549] 07 p1015 N84-16588

Bending fatigue of electron-beam-welded foils. Application to a hydrodynamic air bearing in the Chrysler/DOE upgraded automotive gas turbine engine
[NASA-TM-83539] 07 p1016 N84-16589

A real-time, portable, microcomputer-based jet engine simulator
[NASA-TM-83550] 07 p1052 N84-16812

AESOP: An interactive computer program for the design of linear quadratic regulators and Kalman filters
[NASA-TP-2221] 07 p1057 N84-16843

Noise of the SR-6 propeller model at 2 deg and 4 deg angles of attack
[NASA-TM-83515] 07 p1069 N84-16946

Programs for calculating quasi-three-dimensional flow in a turbomachine blade row
[NASA-TM-83568] 08 p1098 N84-17138

Comparison of secondary flows predicted by a viscous code and an inviscid code with experimental data for a turning duct
[NASA-TM-83575] 08 p1098 N84-17142

Investigation of flow phenomena in a transonic fan rotor using laser anemometry
[NASA-TM-83555] 08 p1098 N84-17143

NASCAP simulations of spacecraft charging of the SCATHA satellite 08 p1117 N84-17268

The role of potential barrier formation in spacecraft charging 08 p1118 N84-17269

Preliminary study of thermomechanical fatigue of polycrystalline MAR-M 200
[NASA-TP-2280] 08 p1130 N84-17350

Metallic glass as a temperature sensor during ion plating
[NASA-TM-83566] 08 p1130 N84-17351

Tribological characteristics of gold films deposited on metals by ion plating and vapor deposition
[NASA-TM-83572] 08 p1130 N84-17352

Factors which influence directional coarsening of Gamma prime during creep in nickel-base superalloy single crystals
[NASA-TM-83595] 08 p1131 N84-17353

Influence of composition on the microstructure and mechanical properties of a nickel-base superalloy single crystal
[NASA-TM-83563] 08 p1131 N84-17354

Influence of cobalt, tantalum and tungsten on the high temperature mechanical properties of single crystal nickel-base superalloys
[NASA-TM-83479] 08 p1131 N84-17355

A mathematical model for the doubly-fed wound rotor generator, part 2
[NASA-TM-83581] 08 p1149 N84-17479

Hot-flow tests of a series of 10-percent-scale turbofan forced mixing nozzles
[NASA-TP-2268] 08 p1156 N84-17525

Experimental study of bubble cavities attached to a rotating shaft in a reservoir
[NASA-TM-83586] 08 p1157 N84-17533

Effects of different rub models on simulated rotor dynamics
[NASA-TP-2220] 08 p1166 N84-17590

The ball bearing as a rheological test device
[NASA-TM-83570] 08 p1166 N84-17591

Hydrodynamic lubrication of rigid nonconformal contacts in combined rolling and normal motion
[NASA-TM-83578] 08 p1166 N84-17592

A study of nucleation and growth of thin films by means of computer simulation: General features
[NASA-TM-83559] 08 p1222 N84-17982

Laboratory degradation of Kapton in a low energy oxygen ion beam
[NASA-TM-83530] 09 p1272 N84-18310

Analysis of thermoelectric properties of high-temperature complex alloys of nickel-base, iron-base and cobalt-base groups
[NASA-TP-2278] 09 p1281 N84-18370

Water-vapor effects on friction of magnetic tape in contact with nickel-zinc ferrite
[NASA-TP-2279] 09 p1286 N84-18399

Beam impingement angle effects on secondary electron emission characteristics of textured pyrolytic graphite
[NASA-TP-2285] 09 p1286 N84-18400

Mechanism of lubrication by tricresylphosphate (TCP)
[NASA-TP-2274] 09 p1324 N84-18653

Comparison of predicted and experimental thermal performance of angular-contact ball bearings
[NASA-TP-2275] 09 p1325 N84-18654

Engine cyclic durability by analysis and material testing
[NASA-TM-83577] 09 p1330 N84-18683

Tabulations of ambient ozone data obtained by GASP (Global Air Sampling Program) airliners, March 1975 to July 1979
[NASA-TM-82742] 09 p1348 N84-18806

Simplified combustion noise theory yielding a prediction of fluctuating pressure level
[NASA-TP-2237] 09 p1386 N84-19049

Ceramic wear in indentation and sliding
[NASA-TM-83585] 10 p1465 N84-19566

Durable solid lubricant coatings for foil gas bearings to 315 deg C
[NASA-TM-83596] 10 p1465 N84-19567

Broadcasting satellites at 12 GHz for Region 2: Technical characteristics
[NASA-TM-83522] 10 p1476 N84-19640

Rural land mobile radio market assessment and satellite and terrestrial system concepts
[NASA-TM-83591] 10 p1476 N84-19641

High efficiency IMPATT diodes for 60 GHz intersatellite link applications
[NASA-TM-83584] 10 p1485 N84-19708

The infinite line pressure probe
[NASA-TM-83582] 10 p1498 N84-19787

First order ball bearing kinematics
[NASA-TM-83592] 10 p1502 N84-19816

Road load simulator tests of the Gould phase 1 functional model silicon controlled rectifier ac motor controller for electric vehicles
[NASA-TM-83497] 10 p1529 N84-20016

Electric vehicle propulsion alternatives
[NASA-TM-83504] 10 p1529 N84-20017

Operating system for a real-time multiprocessor propulsion system simulator
[NASA-TM-83605] 10 p1566 N84-20258

RTMPL: A structured programming and documentation utility for real-time multiprocessor simulations
[NASA-TM-83606] 10 p1566 N84-20259

Low frequency noise in a quiet, clean, general aviation turbofan engine
[NASA-TM-83520] 10 p1575 N84-20320

Coaxial carbon plasma gun deposition of amorphous carbon films
[NASA-TM-83600] 10 p1587 N84-20404

Progress toward the development of an aircraft icing analysis capability
[NASA-TM-83562] 11 p1601 N84-20490

Experimental investigation of tangential blowing applied to a subsonic V/STOL inlet
[NASA-TP-2297] 11 p1602 N84-20493

Combustion Fundamentals Research
[NASA-CP-2309] 11 p1608 N84-20525

Fuel spray diagnostics 11 p1608 N84-20527

Application of improved numerical schemes 11 p1610 N84-20537

Numerical modeling of turbulent flow 11 p1610 N84-20538

Modeling of dilution jet flowfields 11 p1611 N84-20547

Fast algorithms for combustion kinetics calculations: A comparison 11 p1612 N84-20554

Random vortex method for combusting flows 11 p1613 N84-20558

Transient flow combustion 11 p1613 N84-20560

Combustor flame flashback 11 p1614 N84-20561

Formulation of blade-flutter spectral analyses in stationary reference frame
[NASA-TP-2296] 11 p1614 N84-20562

Identification of multivariable high-performance turbofan engine dynamics from closed loop data 11 p1617 N84-20580

Application of advanced control techniques to aircraft propulsion systems 11 p1618 N84-20590

Parametric analysis of hollow conductor parallel and coaxial transmission lines for high frequency space power distribution
[NASA-TM-83601] 11 p1625 N84-20639

Homogeneous reactions of hydrocarbons, silane, and chlorosilanes in radiofrequency plasmas at low pressures
[NASA-TP-2301] 11 p1626 N84-20643

Mechanism of corrosion of Ni base superalloys by molten Na2MoO4 at elevated temperatures
[NASA-TM-83580] 11 p1632 N84-20672

Mechanical contact induced transformation from the amorphous to the crystalline state in metallic glass
[NASA-TM-83583] 11 p1632 N84-20673

Vortex generating flow passage design for increased film cooling effectiveness
[NASA-CASE-LEW-14039-1] 11 p1651 N84-20782

Frictional and morphological properties of Au-MoS2 films sputtered from a compact target
[NASA-TM-83604] 11 p1664 N84-20858

Development of a simplified procedure for cyclic structural analysis
[NASA-TP-2243] 11 p1667 N84-20878

Voltage controlling mechanisms in low resistivity silicon solar cells: A unified approach
[NASA-TM-83612] 11 p1673 N84-20916

Thermionic-photovoltaic energy converter
[NASA-CASE-LEW-14077-1] 11 p1673 N84-20918

Radical and ion molecule mechanisms in the polymerization of hydrocarbons and chlorosilanes in RF plasmas at low pressures (1.0 torr)
[NASA-TM-83602] 11 p1736 N84-21329

Correlations between plasma variables and the deposition process of Si films from chlorosilanes in low pressure RF plasma of argon and hydrogen
[NASA-TM-83603] 11 p1737 N84-21330

Real-time hybrid computer simulation of a small turboshaft engine and control system
[NASA-TM-83579] 12 p1771 N84-21548

Analysis of a topping-cycle, aircraft, gas-turbine-engine system which uses cryogenic fuel
[NASA-TP-2294] 12 p1771 N84-21549

Analysis of stress-strain, fracture and ductility behavior of aluminum matrix composites containing discontinuous silicon carbide reinforcement
[NASA-TM-83610] 12 p1789 N84-21666

Friction and wear of iron in sulfuric acid
[NASA-TP-2289] 12 p1796 N84-21716

Ion-beam nitriding of steels
[NASA-TM-83599] 12 p1797 N84-21719

Friction and wear of nickel in sulfuric acid
[NASA-TP-2290] 12 p1797 N84-21721

Characterization and measurement of polymer wear
[NASA-TM-83628] 12 p1800 N84-21739

Overview of zirconia with respect to gas turbine applications
[NASA-TP-2286] 12 p1801 N84-21740

A TWT amplifier with a linear power transfer characteristic and improved efficiency
[NASA-TM-83590] 12 p1810 N84-21803

Review and status of heat-transfer technology for internal passages of air-cooled turbine blades
[NASA-TP-2232] 12 p1814 N84-21828

Effect of a rotor wake on heat transfer from a circular cylinder
[NASA-TM-83613] 12 p1815 N84-21832

Measurement of fluid properties using rapid-double-exposure and time-average holographic interferometry
[NASA-TM-83630] 12 p1818 N84-21849

Method of reducing temperature in high-speed photography
[NASA-TM-83620] 12 p1907 N84-22421

Simultaneous cabin and ambient ozone measurements on two Boeing 747 airplanes. Volume 2: January to October 1978
[NASA-TM-81733] 12 p1917 N84-22488

Overview of NASA Lewis Research Center free-piston Stirling engine activities
[NASA-TM-83649] 12 p1921 N84-22512

Analysis of inviscid and viscous flows in cascades with an explicit multiple-grid algorithm
[NASA-TM-83636] 13 p1925 N84-22527

Redesign and cascade tests of a supercritical controlled diffusion stator blade-section
[NASA-TM-83635] 13 p1926 N84-22533

Real time pressure signal system for a rotary engine
[NASA-CASE-LEW-13622-1] 13 p1931 N84-22559

Tip cap for a rotor blade
[NASA-CASE-LEW-13654-1] 13 p1931 N84-22560
Dual clearance squeeze film damper
[NASA-CASE-LEW-13506-1] 13 p1932 N84-22562
Oxidizing seal for a turbine tip gas path
[NASA-CASE-LEW-14053-1] 13 p1932 N84-22563
Comparison between measured turbine stage performance and the predicted performance using quasi-3D flow and boundary layer analyses
[NASA-TM-83640] 13 p1932 N84-22564
Preliminary investigation of a two-zone swirl flow combustor
[NASA-TM-83637] 13 p1932 N84-22565
Determination of compressor in-stall characteristics from engine surge transients
[NASA-TM-83639] 13 p1932 N84-22566
High voltage-high power components for large space power distribution systems
[NASA-TM-83648] 13 p1940 N84-22615
Cathode degradation and erosion in high pressure arc discharges
[NASA-TM-83638] 13 p1942 N84-22631
Diamondlike flake composites
[NASA-CASE-LEW-13837-1] 13 p1953 N84-22695
Diamondlike flakes
[NASA-CASE-LEW-13837-2] 13 p1953 N84-22696
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-3] 13 p1953 N84-22698
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-4] 13 p1953 N84-22699
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-5] 13 p1953 N84-22700
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-6] 13 p1953 N84-22701
Select fiber composites for space applications: A mechanistic assessment
[NASA-TM-83631] 13 p1954 N84-22702
Separator development and testing of nickel-hydrogen cells
[NASA-TM-83653] 13 p1955 N84-22712
Method of making a light weight battery plaque
[NASA-CASE-LEW-13349-1] 13 p1960 N84-22734
Aeronautics and Space Engineering Board: Aeronautics Assessment Committee
[NASA-TM-85594] 13 p1967 N84-22771
Radiation damage and defect behavior in ion-implanted, lithium counterdoped silicon solar cells
[NASA-TM-83646] 13 p1985 N84-22690
Advances in solid state switchgear technology for large space power systems
[NASA-TM-83652] 13 p1986 N84-22891
Development of high frequency low weight power magnetics for aerospace power systems
[NASA-TM-83656] 13 p1986 N84-22892
Vortex generating flow passage design for increased film-cooling effectiveness and surface coverage
[NASA-TM-83617] 13 p1989 N84-22909
Aerodynamic effect of combustor inlet-air pressure on fuel jet atomization
[NASA-TM-83611] 13 p1989 N84-22910
Heat transfer in serpentine passages with turbulence promoters
[NASA-TM-83614] 13 p1989 N84-22911
Multicolor printing plate joining
[NASA-CASE-LEW-13598-1] 13 p1992 N84-22930
Method and apparatus for coating substrates using a laser
[NASA-CASE-LEW-13526-1] 13 p1995 N84-22944
Method of fabricating an abradable gas path seal
[NASA-CASE-LEW-13269-2] 13 p1997 N84-22957
Heat pipes to reduce engine exhaust emissions
[NASA-CASE-LEW-12590-1] 13 p1997 N84-22958
Improved compliant hydrodynamic fluid journal bearing
[NASA-CASE-LEW-13670-1] 13 p1997 N84-22959
A 37.5-kW point design comparison of the nickel-cadmium battery, bipolar nickel-hydrogen battery, and regenerative hydrogen-oxygen fuel cell energy storage subsystems for low Earth orbit
[NASA-TM-83651] 13 p2008 N84-23022
Design considerations for a 10-kW integrated hydrogen-oxygen regenerative fuel cell system
[NASA-TM-83684] 13 p2008 N84-23023
Design of a 1-kWh bipolar nickel hydrogen battery
[NASA-TM-83647] 13 p2008 N84-23024
Advanced designs for IPV nickel-hydrogen cells
[NASA-TM-83643] 13 p2008 N84-23025
Teardown analysis of a ten cell bipolar nickel-hydrogen battery
[NASA-TM-83618] 13 p2008 N84-23026
The effect of diffusion induced lattice stress on the open-circuit voltage in silicon solar cells
[NASA-TM-83667] 13 p2008 N84-23027
Method of making an ion beam sputter-etched ventricular catheter for hydrocephalus shunt
[NASA-CASE-LEW-13107-2] 13 p2019 N84-23095
Fan noise reduction achieved by removing tip flow irregularities behind the rotor - forward arc test configurations
[NASA-TM-83616] 13 p2040 N84-23235
Government - contractor interaction
[AD-P002768] 13 p2053 N84-23315
Assessment of Alternative Aircraft Fuels
[NASA-CP-2307] 14 p2106 N84-23630
Trends of jet fuel demand and properties
14 p2106 N84-23631
NASA broad-specification fuels combustion technology program
14 p2107 N84-23637
Fuel system research and technology: An overview of the NASA program
14 p2108 N84-23641
Research on aviation fuel instability
14 p2108 N84-23642
In-flight atmospheric and fuel tank temperature measurements
14 p2108 N84-23643
Contingency power concepts for helicopter turboshaft engine
[NASA-TM-83679] 14 p2109 N84-23648
Discharges on a negatively biased solar array in a charged particle environment
[NASA-TM-83644] 14 p2118 N84-23690
Ground correlation investigation of thruster spacecraft interactions to be measured on the IAPS flight test
[NASA-TM-83598] 14 p2118 N84-23691
Kinetics of chromium ion absorption by cross-linked polyacrylate films
[NASA-TM-83661] 14 p2118 N84-23693
Simulation of lubricating behavior of a thioether liquid lubricant by an electrochemical method
[NASA-TP-2316] 14 p2129 N84-23764
Group-type hydrocarbon standards for high-performance liquid chromatographic analysis of middistillate fuels
[NASA-TP-2317] 14 p2131 N84-23774
Tribology in the 80's. Volume 1: Sessions 1 to 4
[NASA-CP-2300-VOL-1] 14 p2152 N84-23891
Importance and definition of materials in tribology. Status of understanding
14 p2152 N84-23893
Metallic adhesion and bonding
14 p2153 N84-23897
The strength of the metal. Aluminum oxide interface
14 p2153 N84-23898
Considerations in friction and wear
14 p2154 N84-23903
Thermal and oxidative stabilities of liquid lubricants
14 p2154 N84-23907
Vibration and flutter of mistuned bladed-disk assemblies
[NASA-TM-83634] 14 p2157 N84-23923
Comparison of free-piston Stirling engine model predictions with RE1000 engine test data
[NASA-TM-83650] 14 p2249 N84-24509
Calculation of transonic flow in a linear cascade
[NASA-TM-83697] 15 p2255 N84-24539
Combustor liner construction
[NASA-CASE-LEW-14035-1] 15 p2260 N84-24577
Lewis Research Center spin rig and its use in vibration analysis of rotating systems
[NASA-TP-2304] 15 p2260 N84-24578
Tandem fan applications in advanced STOVL fighter configurations
[NASA-TM-83689] 15 p2261 N84-24579
Supersonic STOVL ejector aircraft from a propulsion point of view
[NASA-TM-83641] 15 p2261 N84-24581
Supersonic STOVL aircraft with turbine bypass/turbo-compressor engines
[NASA-TM-83686] 15 p2261 N84-24582
An overview of NASA intermittent combustion engine research
[NASA-TM-83668] 15 p2261 N84-24583
Combustion gas properties of various fuels of interest to gas turbine engineers
[NASA-TM-83682] 15 p2261 N84-24584
Sensor failure detection for jet engines using analytical redundance
[NASA-TM-83695] 15 p2262 N84-24585
Performance of a high-work low aspect ration turbine tested with a realistic inlet radial temperature profile
[NASA-TM-83655] 15 p2262 N84-24589
Ion-beam-textured and coated surfaces experiment (S1003) 15 p2273 N84-24650
Solar-array-materials passive LDEF experiment (A0171) 15 p2274 N84-24656
Advanced photovoltaic experiment (S0014)
15 p2274 N84-24657
Dilute plasma coupling currents to a high voltage solar array in weak magnetic fields
[NASA-TM-83687] 15 p2283 N84-24708
Method for strengthening boron fibers
[NASA-CASE-LEW-13826-2] 15 p2284 N84-24711
Impact resistance of fiber composites: Energy absorbing mechanisms and environmental effects
[NASA-TM-83594] 15 p2284 N84-24712
Research on aviation fuel instability
15 p2289 N84-24734
Detailed fuel spray analysis techniques
15 p2291 N84-24747
Performance of thermal barrier coatings in high heat flux environments
[NASA-TM-83663] 15 p2295 N84-24772
Low wear partially fluorinated polyimides
[NASA-TM-83629] 15 p2301 N84-24808
Elastohydrodynamic lubrication of smooth surfaces
15 p2315 N84-24895
Surface topography-connections between lubrication and failure initiation 15 p2316 N84-24896
A review of internal combustion engine combustion chamber process studies at NASA Lewis Research Center
[NASA-TM-83666] 15 p2331 N84-24999
Computational modeling of jet induced mixing of cryogenic propellants in low-G
[NASA-TM-83703] 15 p2331 N84-25000
Holographic aids for internal combustion engine flow studies
[NASA-TM-83681] 15 p2335 N84-25017
Optimization of fringe-type laser anemometers for turbine engine component testing
[NASA-TM-83658] 15 p2335 N84-25019
Tribology in the 80's. Volume 2: Sessions 5 - 8
[NASA-CP-2300-VOL-2] 15 p2340 N84-25047
Elastohydrodynamic lubrication. Status of understanding 15 p2340 N84-25048
Status and new directions for solid lubricant coatings and composite materials 15 p2341 N84-25055
Status of plasma physics techniques for the deposition of tribological coatings 15 p2342 N84-25058
Status of understanding for gear materials
15 p2342 N84-25061
Dual clearance squeeze film damper for high load conditions
[NASA-TM-83619] 15 p2343 N84-25064
Results of electric-vehicle propulsion system performance on three lead-acid battery systems
[NASA-TM-83657] 15 p2361 N84-25166
An advanced pitch change mechanism incorporating a hybrid traction drive
[NASA-TM-83709] 16 p2433 N84-25605
An analytical method to predict efficiency of aircraft gearboxes
[NASA-TM-83716] 16 p2433 N84-25606
Application of an optimization method to high performance propeller designs
[NASA-TM-83710] 16 p2433 N84-25607
Application of a quasi-3D inviscid flow and boundary layer analysis to the hub-shroud contouring of a radial turbine
[NASA-TM-83669] 16 p2439 N84-25647
Development of dynamic simulation of TF34-GE-100 turbofan engine with post-stall capability
[NASA-TM-83660] 16 p2450 N84-25712
On modeling dilution jet flowfields
[NASA-TM-83708] 16 p2450 N84-25713
On-orbit cryogenic fluid transfer
[NASA-TM-83688] 16 p2457 N84-25753
Propulsion issues for advanced orbit transfer vehicles
[NASA-TM-83624] 16 p2459 N84-25762
Space station propulsion analysis study
[NASA-TM-83715] 16 p2459 N84-25764
Tribological applications of surface analysis
[NASA-TM-83707] 16 p2460 N84-25766
Dynamic stress analysis of smooth and notched fiber composite flexural specimens
[NASA-TM-83694] 16 p2460 N84-25770
Creep-rupture behavior of candidate Stirling engine alloys after long-term aging at 760 deg C in low-pressure hydrogen
[NASA-TM-83676] 16 p2464 N84-25793
Deposition stress effects on thermal barrier coating burner rig life
[NASA-TM-83670] 16 p2470 N84-25830
Effect of substrate chemical pretreatment on the tribological properties of graphite films
[NASA-TM-83574] 16 p2470 N84-25831
Determination of the key parameters affecting historic communications satellite trends
[NASA-TM-83633] 16 p2481 N84-25908
Secondary pattern computation of an arbitrarily shaped main reflector
[NASA-TM-85527] 16 p2481 N84-25909
Low-frequency switching voltage regulators for terrestrial photovoltaic systems
[NASA-TM-83625] 16 p2483 N84-25926

A semi-direct procedure using a local relaxation factor and its application to an internal flow problem
[NASA-TM-83704] 16 p2486 N84-25946
Unsteady flow in turbomachinery: An overview
16 p2488 N84-25961
Numerical aspects of unsteady flow calculations
16 p2489 N84-25968
Three component velocity measurements using Fabry-Perot interferometer
[NASA-TM-83692] 16 p2495 N84-26010
Factors that affect the fatigue strength of power transmission shafting
[NASA-TM-83608] 16 p2498 N84-26029
Charged particle effects on space systems
[AD-P002103] 16 p2522 N84-26189
High voltage solar array models and Shuttle tile charging
[AD-P002123] 16 p2525 N84-26209
A theoretical prediction of the acoustic pressure generated by turbulence-flame front interactions
[NASA-TM-83587] 16 p2553 N84-26383
Real-time simulation of an automotive gas turbine using the hybrid computer
[NASA-TM-83593] 16 p2569 N84-26484
Space power technology into the 21st Century
[NASA-TM-83690] 17 p2616 N84-26746
Microstructure and orientation effects on properties of discontinuous silicon carbide/aluminum composites
[NASA-TP-2302] 17 p2617 N84-26749
ICAN: Integrated composites analyzer
[NASA-TM-83700] 17 p2618 N84-26755
Interply layer degradation effects on composite structural response
[NASA-TM-83702] 17 p2618 N84-26756
Effects of alloy composition on cyclic flame hot-corrosion attack of cast nickel-base superalloys at 900 deg C
[NASA-TP-2338] 17 p2622 N84-26783
P/M superalloys: A troubled adolescent?
[NASA-TM-83623] 17 p2622 N84-26785
Some fundamental aspects of solidification in a supercooled melt
[NASA-TM-83714] 17 p2623 N84-26787
Sputtered coatings for protection of spacecraft polymers
[NASA-TM-83706] 17 p2626 N84-26803
Design of power-transmitting shifts
[NASA-RP-1123] 17 p2675 N84-27041
Spin analysis of concentrated traction contacts
[NASA-TM-83713] 17 p2675 N84-27042
An analysis of traction drive torsional stiffness
[NASA-TM-83712] 17 p2675 N84-27043
Large, horizontal-axis wind turbines
[NASA-TM-83546] 17 p2722 N84-27327
Characteristics of arc currents on a negatively biased solar cell array in a plasma
[NASA-TM-83728] 18 p2807 N84-27824
Performance capabilities of the 12-centimeter Xenon ion thruster
[NASA-TM-83674] 18 p2808 N84-27825
Method and apparatus for gripping uniaxial fibrous composite materials
[NASA-CASE-LEW-13758-1] 18 p2808 N84-27829
Progressive fracture of fiber composites
[NASA-TM-83701] 18 p2809 N84-27831
Simplified composite micromechanics equations for strength, fracture toughness and environmental effects
[NASA-TM-83696] 18 p2809 N84-27832
Coating with overlay metallic-cermet alloy systems
[NASA-CASE-LEW-13639-2] 18 p2813 N84-27855
Interaction of sulfuric acid corrosion and mechanical wear of iron
[NASA-TM-83717] 18 p2813 N84-27857
Modeling degradation and failure of Ni-Cr-Al overlay coatings
[NASA-TM-83672] 18 p2813 N84-27858
In-situ measurements of alloy oxidation/corrosion/erosion using a video camera and proximity sensor with microcomputer control
[NASA-TM-83673] 18 p2813 N84-27859
Chemical approach for controlling nadimide cure temperature and rate
[NASA-CASE-LEW-13770-1] 18 p2817 N84-27885
Evaluation of two polyimides and of an improved liner retention design for self-lubricating bushings
[NASA-TM-83719] 18 p2817 N84-27887
Test results for 27.5- to 30-GHz communications satellite receivers
[NASA-TM-83662] 18 p2828 N84-27954
Dielectric based submillimeter backward wave oscillator circuit
[NASA-CASE-LEW-13736-1] 18 p2831 N84-27974
Parameter studies of gear cooling using an automatic finites element mesh generator
[NASA-TM-83721] 18 p2849 N84-28087
An investigation of the transient thermal analysis of spur gears
[NASA-TM-83724] 18 p2849 N84-28088
Chromium electrodes for REDOX cells
[NASA-CASE-LEW-13653-1] 18 p2868 N84-28205
Overview of advanced Stirling and gas turbine engine development programs and implications for solar thermal electrical applications 18 p2872 N84-28231
Ion sputter textured graphite electrode plates
[NASA-CASE-LEW-12919-2] 18 p2928 N84-28565
Velocity and temperature characteristics of two-stream, coplanar jet exhaust plumes
[NASA-TM-83730] 19 p2965 N84-28790
An overview of the NASA rotary engine research program
[NASA-TM-83699] 19 p2965 N84-28791
Detailed flow measurements in casing boundary layer of 429-meter-per-second-tip-speed two-stage fan
[NASA-TP-2052] 19 p2966 N84-28795
Effects of long-time elevated temperature exposures on hot-isostatically-pressed power-metallurgy Udimet 700 alloys with reduced cobalt contents
[NASA-TM-83632] 19 p2985 N84-28917
Hygrothermomechanical fracture stress criteria for fiber composites with sense-parity
[NASA-TM-83691] 19 p2985 N84-28918
Chemical mechanisms and reaction rates for the initiation of hot corrosion of IN-738
[NASA-TP-2319] 19 p2992 N84-28958
Oxidation and corrosion resistance of candidate Stirling engine heater-head-tube alloys
[NASA-TM-83609] 19 p2992 N84-28962
Advanced high temperature materials for the energy efficient automotive Stirling engine
[NASA-TM-83659] 19 p2992 N84-28963
Erosion of iron-chromium alloys by glass particles
[NASA-TP-2354] 19 p2993 N84-28965
Deposition of diamondlike carbon films
[NASA-CASE-LEW-14080-1] 19 p2996 N84-28986
Secondary electron emission characteristics of ion-textured copper and high-purity isotropic graphite surfaces
[NASA-TP-2342] 19 p2997 N84-28989
Oxygen diffusion in alpha-Al2O3
[NASA-TM-83622] 19 p2997 N84-28990
Properties of ferrites important to their friction and wear behavior
[NASA-TM-83718] 19 p2997 N84-28994
Oxygen recombination in individual pressure vessel nickel-hydrogen batteries
[NASA-CASE-LEW-13822-1] 19 p3011 N84-29084
Turbulence and surface heat transfer near the stagnation point of a circular cylinder in turbulent flow
[NASA-TM-83732] 19 p3021 N84-29157
Efficiency of nonstandard and high contact ratio involute spur gears
[NASA-TM-83725] 19 p3031 N84-29223
Lubricant jet flow phenomena in spur and helical gears with modified center distances and/or addendums for out-of-mesh conditions
[NASA-TM-83723] 19 p3031 N84-29224
Operating characteristics of a three-piece-inner-ring large-bore roller bearing to speeds of 3 million DN
[NASA-TP-2355] 19 p3031 N84-29226
A computer program for predicting nonlinear uniaxial material responses using viscoplastic models
[NASA-TM-83675] 19 p3034 N84-29247
Mode 2 fatigue crack growth specimen development
[NASA-TM-83722] 19 p3034 N84-29248
Space Photovoltaic Research and Technology 1983. High Efficiency, Radiation Damage, and Blanket Technology
[NASA-CP-2314] 19 p3043 N84-29307
Optimal design of GaAs-based concentrator space solar cells for 100 AMO, 80 deg C operation
19 p3044 N84-29312
Radiation tolerance of low resistivity, high voltage silicon solar cells 19 p3045 N84-29318
Cell and defect behavior in lithium-counterdoped solar cells 19 p3046 N84-29322
Plasmon device design: Conversion from surface to junction plasmons with grating-couplers
19 p3047 N84-29330
High speed, low cost, LEO-thermal-cycling facility
19 p3048 N84-29340
Electrochemical storage 19 p3048 N84-29342
Solar array: Plasma interactions
19 p3048 N84-29343
Effect of vortex generators on the power conversion performance and structural dynamic loads of the Mod-2 wind turbine
[NASA-TM-83680] 19 p3049 N84-29347
Helicopter engine core noise
19 p3098 N84-29676
Comparison of icing cloud instruments for 1982-1983 icing season flight program
[NASA-TM-83569] 20 p3129 N84-29870
Energy efficient engine program contributions to aircraft fuel conservation
[NASA-TM-83741] 20 p3130 N84-29876
Fuel savings potential of the NASA Advanced Turboprop Program
[NASA-TM-83736] 20 p3130 N84-29878
Factors that influence space station propulsion requirements 20 p3139 N84-29931
Propulsion issues for advanced orbit transfer vehicles
20 p3140 N84-29937
Effects of water-vapor on friction and deformation of polymeric magnetic media in contact with a ceramic oxide
[NASA-TM-83727] 20 p3161 N84-30072
Spectrum/orbit utilization program for geostationary satellites
[NASA-TM-83759] 20 p3172 N84-30146
MMIC technology for advanced space communications systems
[NASA-TM-83749] 20 p3173 N84-30147
Atomization of liquid sheets in high pressure airflow
[NASA-TM-83731] 20 p3183 N84-30223
Acoustic pressures emanating from a turbomachine stage
[NASA-TM-83734] 20 p3183 N84-30224
Orbital stability in combined uniform axial and three-dimensional wiggler magnetic fields for free-electron lasers
[NASA-TM-83753] 20 p3192 N84-30273
Transmission efficiency measurements and correlations with physical characteristics of the lubricant
[NASA-TM-83740] 20 p3195 N84-30293
Summary of drive-train component technology in helicopters
[NASA-TM-83726] 20 p3195 N84-30294
Improved methods of vibration analysis of pretwisted, airfoil blades
[NASA-TM-83735] 20 p3200 N84-30329
Development of a lightweight nickel electrode
[NASA-TM-86861] 20 p3234 N84-30528
Feedback in separated flows over symmetric airfoils
[NASA-TM-83758] 21 p3324 N84-31091
Acoustic excitation: A promising new means of controlling shear layers
[NASA-TM-83772] 21 p3325 N84-31096
The potential impact of new power system technology on the design of a manned space station
[NASA-TM-83770] 21 p3354 N84-31272
A comparison of the efficiency of numerical methods for integrating chemical kinetic rate equations
21 p3355 N84-31280
Calculation of vaporization rates assuming various rate determining steps: Application to the resistojet
[NASA-TM-83757] 21 p3355 N84-31283
Application of finite element substructuring to composite micromechanics
[NASA-TM-83729] 21 p3356 N84-31288
Overlay coating degradation by simultaneous oxidation and coating/substrate interdiffusion
[NASA-TM-83738] 21 p3365 N84-31344
High-temperature cyclic oxidation data, volume 1
[NASA-TM-83665] 21 p3365 N84-31345
Failure analysis of plasma-sprayed thermal barrier coatings
[NASA-TM-83777] 21 p3365 N84-31347
Evaluation of the effect of crack closure on fatigue crack growth of simulated short cracks
[NASA-TM-83778] 21 p3365 N84-31348
Empirical relations for cavitation and liquid impingement erosion processes
[NASA-TP-2339] 21 p3365 N84-31349
Adhesion between polymers and evaporated gold and nickel films
[NASA-TP-2360] 21 p3369 N84-31379
The 20 and 30 GHz MMIC technology for future space communication antenna system
[NASA-TM-83745] 21 p3382 N84-31460
Monolithic microwave integrated circuits: Interconnections and packaging considerations
[NASA-TM-83774] 21 p3382 N84-31461
Dual ion beam deposition of carbon films with diamondlike properties
[NASA-TM-83743] 21 p3390 N84-31512
The effects of lithium counterdoping on radiation damage and annealing in n(+)p silicon solar cells
[NASA-TM-83755] 21 p3390 N84-31513
Deposition of Na2SO4 from salt-seeded combustion gases of a high velocity burner rig
[NASA-TM-83751] 21 p3398 N84-31558
Lubrication of machine elements
[NASA-RP-1126] 21 p3413 N84-31640

Nonlinear displacement analysis of advanced propeller structures using NASTRAN
[NASA-TM-83737] 21 p3419 N84-31683
Cyclic torsion testing
[NASA-TM-83756] 21 p3419 N84-31687
Nonlinear Structural Analysis
[NASA-CP-2297] 21 p3419 N84-31688
Nonlinear analysis for high-temperature composites: Turbine blades/vanes 21 p3421 N84-31699
Photovoltaics: The endless spring
[NASA-TM-83684] 21 p3433 N84-31782
Climatology of ozone at altitudes from 19,000 at 59,000 feet based on combined GASP and ozonesonde data
[NASA-TP-2303] 21 p3446 N84-31865
Time dependent wave envelope finite difference analysis of sound propagation
[NASA-TM-83744] 21 p3490 N84-32118
Analysis of the effect on combustor noise measurements of acoustic waves reflected by the turbine and combustor inlet
[NASA-TM-83760] 21 p3491 N84-32122
Preliminary experiments on phase conjugation for flow visualization
[NASA-TM-83766] 21 p3498 N84-32169
Summary of recent NASA propeller research
[NASA-TM-83733] 22 p3529 N84-32344
Unsteady transonic flow in cascades
[NASA-TM-83780] 22 p3530 N84-32351
Investigation of the three-dimensional flow field within a transonic fan rotor: Experiment and analysis
[NASA-TM-83739] 22 p3531 N84-32357
Analytical and experimental investigation of stator endwall countouring in a small axial-flow turbine
[NASA-TP-2309] 22 p3536 N84-32388
A high energy stage for the National Space Transporation System
[NASA-TM-83795] 22 p3540 N84-32411
Improved heat exchanger for electrothermal devices
[NASA-CASE-LEW-14037-1] 22 p3542 N84-32425
Preliminary design of a 10-kW thermophotovoltaic system for space applications
[NASA-TM-83768] 22 p3543 N84-32427
GCKP84-general chemical kinetics code for gas-phase flow and batch processes including heat transfer effects
[NASA-TP-2320] 22 p3546 N84-32446
Microstructure and surface chemistry of amorphous alloys important to their friction and wear behavior
[NASA-TM-83762] 22 p3555 N84-32508
The friction behavior of semiconductors Si and GaAs in contact with pure metals
[NASA-TM-83779] 22 p3558 N84-32531
RF sputtered silicon and hafnium nitrides as applied to 440C steel
[NASA-TM-86862] 22 p3559 N84-32536
The 20 x 20 high speed microwave switches
[NASA-TM-83775] 22 p3575 N84-32644
A study of the high frequency limitations of series resonant converters
[NASA-CR-173868] 22 p3581 N84-32678
Piezoelectric deicing device
[NASA-CASE-LEW-13773-2] 22 p3597 N84-32782
Structural design of a vertical antenna boresight 18.3 by 18.3-m planar near-field antenna measurement system
[NASA-TM-83781] 22 p3597 N84-32783
Characteristics and capacities of the NASA Lewis Research Center high precision 6.7- by 6.7-m planar near-field scanner
[NASA-TM-83785] 22 p3598 N84-32789
Thermal analysis of a planetary transmission with spherical roller bearings operating after complete loss of oil
[NASA-TP-2367] 22 p3603 N84-32824
Characterization of erosion of metallic materials under cavitation attack in a mineral oil
[NASA-TP-2368] 22 p3603 N84-32825
The role of the reflection coefficient in precision measurement of ultrasonic attenuation
[NASA-TM-83788] 22 p3606 N84-32849
Negative electrode catalyst for the iron-chromium REDOX energy storage system
[NASA-CASE-LEW-14028-1] 22 p3616 N84-32909
Air modulation apparatus
[NASA-CASE-LEW-13524-1] 23 p3694 N84-33410
Response of a small-turboshaft-engine compression system to inlet temperature distortion
[NASA-TM-83765] 23 p3694 N84-33414
Design guidelines for assessing and controlling spacecraft charging effects
[NASA-TP-2361] 23 p3700 N84-33452
Understanding the roles of the strategic element cobalt in nickel base superalloys 23 p3703 N84-33471
Fracture surface characteristics of notched anglepliied graphite/epoxy composites
[NASA-TM-83786] 23 p3711 N84-33522
Effect of gravity on halogenated hydrocarbon flame retardant effectiveness
[NASA-TM-83761] 23 p3713 N84-33536
Overlay metallic-cermet alloy coating systems
[NASA-CASE-LEW-13639-1] 23 p3716 N84-33555
Low cycle fatigue behavior of conventionally cast MAR-M 200 AT 1000 deg C
[NASA-TM-83769] 23 p3717 N84-33564
Friction behavior of silicon in contact with titanium, nickel, silver and copper
[NASA-TP-2362] 23 p3723 N84-33590
Improved thermal barrier coating system
[NASA-CASE-LEW-14057-1] 23 p3724 N84-33595
FTIR analysis of aviation fuel deposits
[NASA-TM-83773] 23 p3726 N84-33608
Photovoltaic power system for satellite Earth stations in remote areas: Project status and design description
[NASA-TM-83789] 23 p3730 N84-33642
Simplified dc to dc converter
[NASA-CASE-LEW-13495-1] 23 p3734 N84-33663
Regenerative hydrogen-oxygen fuel cell-electrolyzer systems for orbital energy storage 23 p3735 N84-33670
Test results of a ten cell bipolar nickel-hydrogen battery 23 p3739 N84-33702
Diesel engine catalytic combustor system
[NASA-CASE-LEW-12995-1] 23 p3756 N84-33808
Cogeneration Technology Alternatives Study (CTAS). Volume 2: Comparison and evaluation of results
[NASA-TM-81401] 23 p3790 N84-34038
An experimental investigation of the effect of boundary layer refraction on the noise from a high-speed propeller
[NASA-TM-83764] 23 p3821 N84-34230
A theoretical model for the cross spectra between pressure and temperature downstream of a combustor
[NASA-TM-83671] 23 p3821 N84-34231
Baseline performance and emissions data for a single-cylinder, direct-injected diesel engine
[NASA-TM-86873] 23 p3836 N84-34330
Identification of quasi-steady compressor characteristics from transient data
[NASA-CR-174685] 24 p3855 N84-34444
The energy dependence and surface morphology of Kapton (trademark) degradation under atomic oxygen bombardment 24 p3863 N84-34484
Fracture modes in notched anglepliied composite laminates
[NASA-TM-83802] 24 p3878 N84-34576
Fundamentals of Alloy Solidification Applied to Industrial Processes
[NASA-CP-2337] 24 p3881 N84-34589
Evaluation of candidate Stirling engine heater tube alloys after 3500 hours exposure to high pressure doped hydrogen or helium
[NASA-TM-83782] 24 p3883 N84-34603
The role of material properties in adhesion
[NASA-TM-83792] 24 p3888 N84-34619
Optical and other property changes of M-50 bearing steel surfaces for different lubricants and additive prior to scuffing
[NASA-TM-83746] 24 p3888 N84-34620
Ultrasonic velocity measurement using phase-slope cross-correlation methods
[NASA-TM-83794] 24 p3911 N84-34769
Supersonic jet shock noise reduction
[NASA-TM-83799] 24 p3961 N84-35085

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION. MANNED SPACECRAFT CENTER, LANGLEY STATION, VA.

Separation processes during binary monotectic alloy production
[NASA-TM-82579] 15 p2295 N84-24773

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION. MARSHALL SPACE FLIGHT CENTER, HUNTSVILLE, ALA.

Space Processing Applications Rocket (SPAR) project SPAR 7
[NASA-TM-82535] 01 p0018 N84-10112
Calculation of shuttle base heating environments and comparison with flight data 01 p0023 N84-10145
Solid rocket booster thrust vector control subsystem description
[NASA-TM-82546] 01 p0029 N84-10183
Cryogenic insulation strength and bond tester
[NASA-CASE-MFS-25910-1] 02 p0199 N84-11297
Resilient seal ring assembly with spring means applying force to wedge member
[NASA-CASE-MFS-25678-1] 02 p0228 N84-11497
In-house welding studies supporting the prelaunch assessment of the STS-6 main engines
[NASA-TM-82552] 02 p0229 N84-11499
Apparatus for adapting an end effector device remotely controlled manipulator arm
[NASA-CASE-MFS-25949-1] 02 p0229 N84-11501
MSFC exhaust effluent diffusion predictions and measurements for STS-1, STS-2, STS-3, and STS-4
[NASA-TM-82551] 02 p0243 N84-11593
Prosthetic occlusive device for an internal passageway
[NASA-CASE-MFS-25740-1] 02 p0265 N84-11744
Self-locking telescoping manipulator arm
[NASA-CASE-MFS-25906-1] 02 p0269 N84-11761
Materials processing in space program tasks-supplement
[NASA-TM-82548] 03 p0338 N84-12196
Electrical power trade-offs 03 p0344 N84-12232
Space station attitude control system concept and requirements 03 p0344 N84-12234
IPACS attitude control technology considerations 03 p0345 N84-12238
Flywheel electronics 03 p0345 N84-12239
Power system considerations and test activities 03 p0345 N84-12244
IPACS guidance navigation and control system considerations and test activities 03 p0346 N84-12245
Constant-output atomizer
[NASA-CASE-MFS-25631-1] 03 p0370 N84-12406
Potential means of support for materials processing in space. A history of government support for new technology
[NASA-TM-82554] 04 p0488 N84-13205
Galvanic coupling between D6AC steel, 6061-T6 aluminum, Inconel 718 and graphite-epoxy composite material: Corrosion occurrence and prevention
[NASA-TP-2236] 04 p0497 N84-13263
Coil planet centrifugation as a means for small particle separation
[NASA-TM-82561] 04 p0570 N84-13756
The Marshall Space Flight Center Low-Energy Ion Facility: A preliminary report
[NASA-TM-82559] 04 p0596 N84-13933
Solidification rate influence on orientation and mechanical properties of MAR-M-246+Hf
[NASA-TM-82558] 05 p0653 N84-14290
Heat sealable, flame and abrasion resistant coated fabric
[NASA-CASE-MSC-18382-2] 05 p0658 N84-14324
High speed machining of space shuttle external tank liquid hydrogen barrel panel
[NASA-TM-82557] 05 p0662 N84-14352
Electrical self-aligning connector
[NASA-CASE-MFS-25211-2] 05 p0673 N84-14423
Control system for an induction motor with energy recovery
[NASA-CASE-MFS-25477-1] 05 p0673 N84-14424
Space shuttle exhaust cloud properties
[NASA-TP-2258] 05 p0702 N84-14606
Atmospheric environment for space shuttle (STS-8) launch
[NASA-TM-82560] 05 p0708 N84-14636
FY 1983 scientific and technical reports, articles, papers and presentations
[NASA-TM-82547] 05 p0759 N84-14974
Propulsion apparatus and method using boil-off gas from a cryogenic liquid
[NASA-CASE-MFS-25946-1] 06 p0796 N84-15183
Development of an improved protective cover/light block for multilayer insulation
[NASA-TM-82563] 06 p0809 N84-15269
Liquid management in low gravity using baffled rotating containers
[NASA-TP-2263] 06 p0834 N84-15427
Some properties of a 5-parameter bivariate probability distribution
[NASA-TM-82550] 06 p0904 N84-15866
The generalized Euler-Mascheroni constants
[NASA-TP-2264] 06 p0906 N84-15880
Significant scientific and technical results at Marshal Space Flight Center
[NASA-TM-82562] 06 p0935 N84-16075
A dc to dc converter
[NASA-CASE-MFS-25430-1] 07 p0995 N84-16453
Pulsed thyristor trigger control circuit
[NASA-CASE-MFS-25616-1] 07 p0996 N84-16455
High gradient directional solidification furnace
[NASA-CASE-MFS-25963-1] 07 p1007 N84-16531
Clamp-mount device
[NASA-CASE-MFS-25510-1] 07 p1011 N84-16560
High-temperature, high-pressure optical cell
[NASA-CASE-MFS-26000-1] 07 p1075 N84-16986
Spectral slicing X-ray telescope with variable magnification
[NASA-CASE-MFS-25942-1] 07 p1089 N84-17084
Space Processing Applications Rocket (SPAR) project, SPAR 9
[NASA-TM-82549] 08 p1113 N84-17239
Interaction of the space shuttle orbiter with the ionospheric plasma 08 p1117 N84-17265

A potential control method for thermal plasma measurements on the DE-1 spacecraft
08 p1119 N84-17276
Methods for keeping a conductive spacecraft near the plasma potential 08 p1119 N84-17277
Wind speed and direction shears with associated vertical motion during strong surface winds
[NASA-TM-82566] 08 p1190 N84-17756
Evidence linking coronal mass ejections with interplanetary magnetic clouds
[NASA-TM-82564] 08 p1245 N84-18141
Electromagnetic levitation coil fabrication technique for MSFC containerless processing facilities
[NASA-TM-82565] 09 p1306 N84-18535
Low loss injector for Space Shuttle main engine. Center director's discretionary fund
[NASA-TM-82567] 10 p1450 N84-19469
Ultra-high molecular weight silphenylene-siloxane polymers
[NASA-TP-2295] 10 p1464 N84-19564
The new MSFC Solar vector magnetograph. Center director's discretionary fund
[NASA-TM-82568] 10 p1497 N84-19786
A note on the ratio of positively correlated gamma variates 10 p1573 N84-20305
A differential equations approach to the modal location for a family of bivariate gamma distributions
10 p1573 N84-20307
The AXAF technology program: The optical flats tests
[NASA-TM-82570] 10 p1578 N84-20341
A study of the solidification parameters influencing structures and properties in MAR-M246(Hf)
[NASA-TM-82569] 11 p1633 N84-20675
Self-indexing latch system
[NASA-CASE-MFS-25956-1] 11 p1664 N84-20860
A polytetrafluorethylene insulated cable for high temperature oxygen aerospace applications
11 p1723 N84-21238
Tethers in space: Birth and growth of a new avenue to space utilization
[NASA-TM-82571] 12 p1779 N84-21607
The Advanced X-ray Astrophysics Facility. Observing the universe in X-rays
[NASA-EP-199] 12 p1921 N84-22517
Space probe/satellite ejection apparatus for spacecraft
[NASA-CASE-MFS-15429-1] 13 p1939 N84-22609
Method for sequentially processing a multi-level interconnect circuit in a vacuum chamber
[NASA-CASE-MFS-25670-1] 13 p1985 N84-22884
Three phase power factor controller
[NASA-CASE-MFS-25535-2] 13 p1985 N84-22885
Motor power control circuit for ac induction motors
[NASA-CASE-MFS-25323-1] 13 p1985 N84-22886
Bellows flow-induced vibrations
[NASA-TM-82556] 13 p1989 N84-22912
Two-dimensional scanner apparatus
[NASA-CASE-MFS-25687-1] 13 p1992 N84-22928
Method of and apparatus for double-exposure holographic interferometry
[NASA-CASE-MFS-25405-1] 13 p1992 N84-22929
A statistical evaluation and comparison of VISSR Atmospheric Sounder (VAS) data and corresponding rawinsonde measurements
[NASA-TM-82575] 13 p2016 N84-23071
Application of VISSR Atmospheric Sounder (VAS) data
[NASA-TM-82574] 13 p2016 N84-23073
Shock response spectra variational analysis for pyrotechnic qualification testing of flight hardware
[NASA-TP-2315] 14 p2115 N84-23676
Automated rendezvous and docking: A parametric study
[NASA-TP-2314] 14 p2115 N84-23677
Finite-difference fluid dynamics computer mathematical models for the design and interpretation of experiments for space flight
[NASA-TP-2323] 14 p2144 N84-23852
Atmospheric environment for Space Shuttle (STS-9) launch
[NASA-TM-82572] 14 p2179 N84-24047
Geometric interpretations of the Discrete Fourier Transform (DFT)
[NASA-TP-2332] 14 p2189 N84-24114
A comparative look at sunspot cycles
[NASA-TP-2325] 14 p2251 N84-24520
Atomic-oxygen stimulated outgassing (A0034)
15 p2271 N84-24635
Interaction of atomic oxygen with solid surfaces at orbital altitudes (A0114) 15 p2271 N84-24636
Thermal control surface experiment (S0069)
15 p2273 N84-24649
Transverse flat-plate heat pipe experiment (S1005)
15 p2274 N84-24653
Solar-array-materials passive LDEF experiment (A0171) 15 p2274 N84-24656
Trapped-proton energy spectrum determination (M0002-1) 15 p2276 N84-24663
Linear energy transfer spectrum measurement experiment (P0006) 15 p2276 N84-24665
Effects of solar radiation on glasses
15 p2279 N84-24685
Atmospheric environment for Space Shuttle (STS-11) launch
[NASA-TM-82580] 15 p2366 N84-25194
Investigation of thermospheric winds relative to space station orbital altitudes
[NASA-TM-82577] 15 p2371 N84-25220
Magnetohydrodynamic power generation
[NASA-TP-2331] 15 p2409 N84-25458
Space processing applications rocket project. SPAR 8
[NASA-TM-82578] 16 p2455 N84-25745
Determination of the succinonitrile-benzene and succinonitrile-cyclohexanol phase diagrams by thermal and UV spectroscopic analysis
[NASA-TM-82581] 16 p2462 N84-25778
The interaction of large space structures with the near-Earth environment
[AD-P002115] 16 p2523 N84-26201
A stochastic modal for photon noise induced by charged particles in multiplier phototubes of the space telescope fine guidance sensors
[NASA-TP-2337] 16 p2556 N84-26398
Natural environment design criteria for the space station program definition phase
[NASA-TM-82585] 17 p2615 N84-26740
Frontiers of Remote Sensing of the Oceans and Troposphere from Air and Space Platforms
[NASA-CP-2303] 17 p2711 N84-27262
Irradiance from stars based on blackbody theory
[NASA-TM-82582] 17 p2775 N84-27617
Diffuser/ejector system for a very high vacuum environment
[NASA-CASE-MRS-25791-1] 18 p2797 N84-27749
Marshall Amateur Club experiment (MARCE)
18 p2800 N84-27767
Space Shuttle with rail system and aft thrust structure securing solid rocket boosters to external tank
[NASA-CASE-MFS-25853-1] 18 p2802 N84-27784
Three stage rocket vehicle with parallel staging
[NASA-CASE-MFS-25878-1] 18 p2803 N84-27787
Phase detector for three-phase power factor controller
[NASA-CASE-MFS-25854-1] 18 p2832 N84-27975
Device for determining frost depth and density
[NASA-CASE-NFS-25754-1] 18 p2839 N84-28018
Characteristics of the MSFC, PDS microdensitometer
18 p2840 N84-28026
Pyrotechnic shock: A literature survey of the Linear Shaped Charge (LSC)
[NASA-TM-82583] 18 p2852 N84-28109
An investigation into the probabilistic combination of quasi-static and random accelerations
[NASA-TM-82584] 18 p2852 N84-28111
Sonic levitation apparatus
[NASA-CASE-MFS-25828-1] 18 p2928 N84-28568
Apparatus for measuring charged particle beam
[NASA-CASE-MFS-25641-1] 18 p2929 N84-28575
Pattern recognition for Space Applications Center director's discretionary fund
[NASA-TM-82586] 18 p2951 N84-28710
The ASTRO-1 preliminary design review coupled load analysis
[NASA-TM-82587] 19 p3034 N84-29246
Atmospheric environment for space shuttle (STS-13) launch
[NASA-TM-82588] 19 p3057 N84-29396
High pressure LOX/natural gas staged combustion technology 20 p3138 N84-29927
Dielectric cure monitoring: Preliminary studies
[NASA-TM-86452] 21 p3369 N84-31378
A high voltage electrical power system for low Earth orbit applications
[NASA-TM-86453] 21 p3390 N84-31511
Nighttime observations of thunderstorm electrical activity from a high altitude airplane
[NASA-TM-86455] 21 p3405 N84-31597
Radial Si latches vibration test data review
[NASA-TM-86454] 21 p3412 N84-31638
Testing and evaluation of Vespel up to 450 deg F when used in nuts and bolts as a self-locking element
[NASA-TM-86456] 21 p3412 N84-31639
Warm fog dissipation using large volume water sprays
[NASA-CASE-MFS-25962-1] 22 p3538 N84-32398
Containerless high purity pulling process and apparatus for glass fibers
[NASA-CASE-MFS-25905-2] 22 p3564 N84-32569
Measurement amplifier
[NASA-CASE-MFS-25866-1] 22 p3581 N84-32680
Mesoscale observations of lightning from Space Shuttle
[NASA-TM-86451] 22 p3598 N84-32788
Laser furnace technology for zone refining
[NASA-TM-86459] 22 p3600 N84-32805
Materials testing of the IUS techroll seal material
[NASA-TM-86462] 22 p3604 N84-32829
Bi-directional control system for energy flow in a solar powered flywheel
[NASA-CASE-MFS-25978-1] 22 p3616 N84-32913
Computer vision for real-time orbital operations. Center directors discretionary fund
[NASA-TM-86457] 22 p3640 N84-33076
A review of micrometeoroid flux measurements and models for low orbital altitudes of the Space Station
[NASA-TM-86466] 23 p3700 N84-33455
Induced environment contamination monitor: Preliminary results from the Spacelab 1 flight
[NASA-TM-86461] 23 p3701 N84-33461
Development of in situ stiffness properties for shuttle booster filament wound case
[NASA-TP-2377] 23 p3711 N84-33521
High-pressure hydrogen testing of single crystal superalloys for advanced rocket engine turbopump turbine blades
[NASA-TM-86464] 23 p3717 N84-33563
Coupling an induction motor type generator to ac power lines
[NASA-CASE-MFS-25302-2] 23 p3734 N84-33660
Three-phase power factor controller with induced EMF sensing
[NASA-CASE-MFS-25852-1] 23 p3734 N84-33661
Longwall shearer tracking system
[NASA-CASE-MFS-25717-1] 23 p3749 N84-33768
Impacting device for testing insulation
[NASA-CASE-MFS-25862-2] 23 p3756 N84-33807
Payload crew training complex simulation engineer's handbook
[NASA-TM-86465] 23 p3814 N84-34186
On long-term periodicities in the sunspot record
[NASA-TM-86458] 23 p3844 N84-34388
LEO atomic oxygen effects on spacecraft materials: STS-5 results
[NASA-TM-86463] 24 p3867 N84-34506
NASA/MSFC FY-84 Atmospheric Processes Research Review
[NASA-CP-2329] 24 p3923 N84-34829
Theoretical analyses of baroclinic flows
24 p3923 N84-34830
Theoretical flow regime diagrams for the AGCE
24 p3923 N84-34831
GFFC experiment progress 24 p3924 N84-34833
Numerical studies of baroclinic instability at small Richardson number 24 p3924 N84-34834
Laboratory studies of baroclinic instability at small Richardson number 24 p3924 N84-34835
Overview of global scale research Doppler lidar activities 24 p3924 N84-34836
Atmospheric backscatter research
24 p3924 N84-34837
Dynamics and energetics of the South Pacific convergence zone during FGGE SOP-1
24 p3926 N84-34850
Nighttime observations of thunderstorm electrical activity from a high altitude airplane
24 p3926 N84-34853
Lightning mapper development: Status and requirements 24 p3927 N84-34854
Lightning Observations above and below clouds
24 p3927 N84-34856
Storm severity detecion (RF)
24 p3927 N84-34857
Lightning observations from the Space Shuttle
24 p3928 N84-34862
Overview of mesocale research Doppler lidar activities
24 p3928 N84-34863
Analysis of MSFC ground-based Doppler lidar data
24 p3929 N84-34867
Severe storm initiation and dvelopment from satellite infrared imagery and Rawlinsonde data
24 p3929 N84-34872
Mesoscale analysis of VAS 6.7 micron image data for several case studies 24 p3930 N84-34873
An apllication of VISSR atmospheric sounder (VAS) data in mesoscale analysis 24 p3930 N84-34874
Cloud scale influences on mesoscale precipitation patterns 24 p3930 N84-34879
Satellite Precipitation and Cloud Experiment (SPACE)
24 p3931 N84-34887
A statistical evaluation and comparison of VISSR Atmospheric Sounder (VAS) data
24 p3932 N84-34892
Automated mesoscale winds derived from GOES multispectral imagery 24 p3933 N84-34895
Sensor studies and space flight opportunities
24 p3933 N84-34896
Real-time solar magnetograph operation system software design and user's guide
[NASA-TM-86467] 24 p3945 N84-34976

Signal-to-noise ratio for the wide field-planetary camera of the Space Telescope
[NASA-TM-86472] 24 p3983 N84-35235
Studies of solar magnetic fields during the solar maximum year
[NASA-TM-86469] 24 p3992 N84-35265

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION. NATIONAL SPACE TECHNOLOGY LABS., BAY SAINT LOUIS, MISS.

Progress in the scene-to-map registration investigation 03 p0394 N84-12572
Method for treating wastewater using microorganisms and vascular aquatic plants
[NASA-CASE-NSTL-10] 03 p0406 N84-12654
LANDSAT scene-to-scene registration accuracy assessment 20 p3212 N84-30405
An initial analysis of LANDSAT-4 Thematic Mapper data for the discrimination of agricultural, forested wetland, and urban land covers 20 p3213 N84-30414

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION. PASADENA OFFICE, CALIF.

Optical fiber tactile sensor
[NASA-CASE-NPO-15375-1] 02 p0293 N84-11921
High dynamic global positioning system receiver
[NASA-CASE-NPO-16171-1-CU] 03 p0330 N84-12151
Photoelectrochemical electrodes
[NASA-CASE-NPO-15458-1] 03 p0348 N84-12262
Corrosion resistant coating
[NASA-CASE-NPO-15928-1] 03 p0352 N84-12289
Laser activated MTOS microwave device
[NASA-CASE-NPO-16112-1] 03 p0378 N84-12463
Fluidized bed gasification of biomass to methane
[NASA-CASE-NPO-15903-1] 03 p0403 N84-12635
Method and apparatus for minimizing convection during crystal growth from solution
[NASA-CASE-NPO-15811-1] 03 p0451 N84-12968
Pressure letdown method and device for coal conversion systems
[NASA-CASE-NPO-15100-1] 05 p0698 N84-14583
Maser cavity servo-tuning system
[NASA-CASE-NPO-15890-1] 06 p0849 N84-15536
Discharge cell for optogalvanic spectroscopy having orthogonal relationship between the probe laser and discharge axis
[NASA-CASE-NPO-16271-1] 06 p0849 N84-15537
Supercritical multicomponent solvent coal extraction
[NASA-CASE-NPO-15767-1] 07 p0965 N84-16255
Electrodes for solid state devices
[NASA-CASE-NPO-15161-1] 07 p0996 N84-16456
Contactless pellet fabrication
[NASA-CASE-NPO-15592-1] 07 p1069 N84-16940
Vibrating-chamber levitation systems
[NASA-CASE-NPO-16142-1] 07 p1070 N84-16948
Gravity enhanced acoustic levitation method and apparatus
[NASA-CASE-NPO-16147-1] 07 p1070 N84-16949
Ion beam accelerator system
[NASA-CASE-NPO-15547-1] 07 p1071 N84-16959
Hollow cathode apparatus
[NASA-CASE-NPO-15560-1] 07 p1076 N84-16993
Apparatus and method for destructive removal of particles contained in flowing fluid
[NASA-CASE-NPO-15426-1] 08 p1161 N84-17555
Increased voltage photovoltaic cell
[NASA-CASE-NPO-16155-1] 11 p1673 N84-20917
Supercritical solvent coal extraction
[NASA-CASE-NPO-15210-1] 13 p1955 N84-22709
Absorbable-susceptor joining of ceramic surfaces
[NASA-CASE-NPO-15640-1] 13 p1962 N84-22748
Radiative cooler
[NASA-CASE-NPO-15465-1] 13 p1988 N84-22903
Method and apparatus for precision control of radiometer
[NASA-CASE-NPO-15398-1] 13 p1992 N84-22931
Instrumentation for sensing moisture content of material using a transient thermal pulse
[NASA-CASE-NPO-15494-2] 13 p1993 N84-22935
Spectrophone stabilized laser with line center offset frequency control
[NASA-CASE-NPO-15516-1] 13 p1994 N84-22943
Oil shale extraction using super-critical extraction
[NASA-CASE-NPO-15656-1] 13 p2006 N84-23012
Wind and solar powered turbine
[NASA-CASE-NPO-15496-1] 13 p2007 N84-23018
Chemically rechargeable battery
[NASA-CASE-NPO-16024-1] 13 p2007 N84-23020
Acoustic rotation control
[NASA-CASE-NPO-15689-1] 13 p2039 N84-23233
Programmable scan/read circuitry for charge coupled device imaging detectors
[NASA-CASE-NPO-15345-1] 13 p2042 N84-23247
Reciprocating magnetic refrigerator employing tandem porous matrices within a reciprocating displacer
[NASA-CASE-NPO-16257-1] 15 p2305 N84-24830
Laser pulse detection method and apparatus
[NASA-CASE-NPO-16030-1] 15 p2339 N84-25037
Protective telescoping shield for solar concentrator
[NASA-CASE-NPO-16236-1] 15 p2361 N84-25164
Nanosequencer digital logic controller
[NASA-CASE-NPO-16116-1] 15 p2385 N84-25306
Low-frequency radio navigation system
[NASA-CASE-NPO-15264-1] 18 p2791 N84-27713
Synthetic aperture radar target simulator
[NASA-CASE-NPO-15024-1] 18 p2827 N84-27951
Ion mass spectrometer
[NASA-CASE-NPO-15423-1] 18 p2838 N84-28016
Shaft transducer having dc output proportional to angular velocity
[NASA-CASE-NPO-15706-1] 18 p2838 N84-28017
Centrifugal-reciprocating compressor
[NASA-CASE-NPO-14597-2] 18 p2848 N84-28081
Solar energy modulator
[NASA-CASE-NPO-15388-1] 18 p2867 N84-28203
Solar concentrator protective system
[NASA-CASE-NPO-15662-1] 18 p2867 N84-28204
Integrating IR detector imaging systems
[NASA-CASE-NPO-15805-1] 18 p2932 N84-28590
Stabilized unsaturated polyesters
[NASA-CASE-NPO-16103-1] 22 p3558 N84-32530
Synchronization tracking in pulse position modulation receiver
[NASA-CASE-NPO-16256-1] 22 p3572 N84-32620
Stable density stratification solar pond
[NASA-CASE-NPO-15419-2] 22 p3616 N84-32910
A new solar cell design for improved open circuit voltage and high efficiency
[NASA-CASE-NPO-16126-1] 22 p3616 N84-32911
Solar-heated oil shale retort
[NASA-CASE-NPO-16392-1] 22 p3616 N84-32912
Low loss splicing method for single-mode optical fiber
[NASA-CASE-NPO-16294-1] 22 p3656 N84-33179
FET charge sensor and voltage probe
[NASA-CASE-NPO-16045-1] 22 p3662 N84-33211
Glass heating panels and method for preparing the same from architectural reflective glass
[NASA-CASE-NPO-15753-1] 23 p3723 N84-33589
Portable reflectance spectrometer
[NASA-CASE-NPO-13556-1] 23 p3749 N84-33766
Means and method for calibrating a photon detector utilizing electron-photon coincidence
[NASA-CASE-NPO-15644-1] 23 p3749 N84-33767
Phase sensitive guidance sensor for wire-following vehicles
[NASA-CASE-NPO-15341-1] 23 p3750 N84-33769
System for indicating fuel-efficient aircraft altitude
[NASA-CASE-NPO-15351-2] 24 p3855 N84-34443
Pipelined digital SAR azimuth correlator using hybrid FFT-transversal filter
[NASA-CASE-NPO-15519-1] 24 p3893 N84-34651
Correlation spectrometer having high resolution and multiplexing capability
[NASA-CASE-NPO-15558-1] 24 p3901 N84-34705
Saltless solar pond
[NASA-CASE-NPO-15808-1] 24 p3916 N84-34792
Epitaxial thinning process
[NASA-CASE-NPO-15786-1] 24 p3966 N84-35112
Process and apparatus for growing a crystal ribbon
[NASA-CASE-NPO-15629-1] 24 p3966 N84-35113

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION. WALLOPS FLIGHT CENTER, WALLOPS ISLAND, VA.

Thin film strain transducer
[US-PATENT-APPL-SN-526770] 03 p0376 N84-12448
Thin film strain transducer
[NASA-CASE-WLP-10055-1] 18 p2838 N84-28015

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION. WHITE SANDS TEST FACILITY, N. MEX.

Iron nitrate and MON-3 nitrogen tetroxide 20 p3136 N84-29909

NATIONAL AEROSPACE LAB., AMSTERDAM (NETHERLANDS).

Experimental vortex analyzer
[NLR-MP-82006-U] 02 p0175 N84-11151
Computational methods for subsonic and transonic aerodynamic design 03 p0317 N84-12074
Application of computational procedures in aerodynamic design 03 p0318 N84-12078
Engine/airframe interference drag at cruise conditions, using propulsion simulation
[NLR-TR-82012-U] 03 p0321 N84-12098
Computational vortex flow aerodynamics 03 p0324 N84-12117
Aspects of second- and third-order panel methods demonstrated for the two-dimensional flat plate problem
[NLR-TR-81074-U] 03 p0373 N84-12433
Results of a new version of the LTRAN2-NLR (LTRANV) for unsteady viscous transonic flow computations
[NLR-TR-81078-U] 03 p0374 N84-12434
Reliability and flexibility of the Infrared Astronomical Satellite (IRAS) on-board software 05 p0724 N84-14756
Verification and validation of Infrared Astronomical Satellite (IRAS) on-board software 05 p0725 N84-14757
Infrared Astronomical Satellite (IRAS) end-to-end data system 05 p0725 N84-14763
Wind tunnel tests on a model of a semisubmersible platform and comparison of the results with full-scale data
[NLR-MP-82014-U] 06 p0780 N84-15113
Computational procedures in transonic aerodynamic design
[NLR-MP-82020-U] 06 p0783 N84-15131
Helix and Felix: Loading standards for use in the fatigue evaluation of helicopter rotor components
[NLR-MP-82041-U] 06 p0787 N84-15149
Some notes on 3-dimensional turbulent boundary layer data and turbulence modeling
[NLR-MP-82007-U] 06 p0845 N84-15513
We need simplicity and speed. Some examples of simple and fast methods for the measurement of deformations of structures
[NLR-MP-82021-U] 06 p0862 N84-15616
Material selection and structural design for safety and durability
[NLR-MP-82023-U] 06 p0862 N84-15617
Human visual information processing: Basic viewpoints from psychology and human engineering research
[NLR-MP-82032-U] 06 p0892 N84-15798
The creation of the NLR benchmark package and the performance of two new CDC comuters with it
[NLR-MP-82015-U] 06 p0896 N84-15819
Numerical modeling and fast-solver calculation of approximately normal shocks
[NLR-MP-82026-U] 06 p0902 N84-15856
Some new developments in exact integral equation formulations for sub- or transonic potential flow
[NLR-MP-82024-U] 06 p0903 N84-15860
A survey of solution techniques for nonlinear finite element equations
[NLR-MP-82027-U] 06 p0903 N84-15861
A local-relaxation method for solving convection-diffusion equations
[NLR-MP-82030-U] 06 p0903 N84-15862
Unsteady viscous transonic flow computations using LTRAN2-NLR code coupled with Green's lag-entrainment method
[NLR-MP-82052-U] 09 p1253 N84-18181
Trending of cruise drag
[NLR-TR-82078-U] 09 p1256 N84-18200
Low-speed handling qualities of advanced transport aircraft: A comparison of ground-based and in-flight simulator experiments
[NLR-TR-82041-U-REV] 09 p1258 N84-18212
Three-dimensional boundary layer calculations on wings, starting from the fuselage
[NLR-MP-82060-U] 09 p1317 N84-18603
New analytical methods for the prediction of fatigue crack growth under realistic loading
[NLR-MP-82055-U] 09 p1335 N84-18713
A comparison of the Cellular Logic Image Processor (CLIP) 4; Distributed Array Processor (DAP) and Massively Parallel Processor (MPP) processor-array implementations
[NLR-MP-82054-U] 09 p1366 N84-18917
Multigrid methods for boundary integral equations
[NLR-MP-82059-U] 09 p1379 N84-19011
Acoustic radiation from a semiinfinite annular duct in a uniform subsonic mean flow
[NLR-MP-82045-U] 09 p1387 N84-19059
An engineering data management system for computer aided design
[NLR-MP-82050-U] 09 p1405 N84-19180
Corrosion and corrosion prevention in gas turbines
[NLR-MP-82048-U] 10 p1431 N84-19355
Uniaxial model for gas-loaded variable conductance heat pipe performance: The effects of vapor flow, friction, and inertia 10 p1443 N84-19424
Fatigue and fracture toughness in aluminum
[NLR-MP-82058-U] 10 p1463 N84-19556
An infrastructure for computational fluid dynamics for computer aided design
[NLR-MP-82046-U] 10 p1495 N84-19774
Functioning of mathematics in institutes for applied scientific research
[NLR-MP-82056-U] 10 p1572 N84-20300
Security, a set of rules or an approach
[NLR-MP-82047-U] 10 p1593 N84-20442
Application of computational procedures in aerodynamic design
[NLR-MP-83012-U] 12 p1766 N84-21521
Computational vortex flow aerodynamics
[NLR-MP-83017-U] 12 p1766 N84-21522

An interactive system for the analysis and constrained minimization of induced drag of aircraft configurations (SAMID)
[NLR-MP-82057-U] 12 p1767 N84-21523
Computational methods for subsonic and transonic aerodynamic design
[AD-B079994] 12 p1767 N84-21524
Airborne real time multisensor navigation
[AD-B079957] 12 p1768 N84-21534
Two-dimensional flight-path reconstruction by means of spline approximation
[NLR-TR-82075-U] 12 p1769 N84-21541
Erosion of corrosion resistant coatings for jet engine compressors
[NLR-MP-83010-U] 12 p1771 N84-21550
A torque motor for a low friction single axis turntable
[NLR-MP-82036-U] 12 p1778 N84-21603
Cryptography in a communication system
[NLR-MP-82051-U] 12 p1808 N84-21787
Shannon: Theory and cryptography
[NLR-MP-82053-U] 12 p1808 N84-21788
Structural deformation: A comprehensive survey of modern measurement methods
[NLR-TR-82021-U] 12 p1827 N84-21909
Functional requirements for the development and use of a software-cost database
[AD-B079998] 12 p1885 N84-22287
Acoustic wave propagation through shear layer of the German-Dutch open jet wind tunnel (DNW)
[NLR-MP-83003-U] 12 p1901 N84-22379
Reprogrammable onboard mission of IRAS
[NLR-MP-83014-U] 13 p1937 N84-22600
The application of cold worked holes (in aircraft structures)
[NLR-TR-81120-U] 13 p2002 N84-22990
Comparison of processor arrays with pipeline processors for image processing
[NLR-MP-83011-U] 13 p2030 N84-23165
The European Transonic Windtunnel (ETW)
14 p2094 N84-23566
Half-model testing in the NLR high speed wind tunnel HST: Its technique and application
14 p2098 N84-23588
The use of Arall in fuselage skins
[AD-B060831] 15 p2260 N84-24572
Fracture toughness and corrosion properties of the aluminum plate alloys 7010-T651 and 7150-T6E189
[NLR-TR-82125-U] 15 p2296 N84-24781
Engineering property comparisons of PM alloy X7091-T7E69 and IM alloy forgings
[NLR-TR-82054-U] 15 p2296 N84-24782
Effect of cooling rate on corrosion properties and microstructure of high strength aluminum alloys
[NLR-TR-82105-U] 15 p2297 N84-24783
Electromagnetic compatibility in aerospace vehicles
[NLR-MP-83002-U] 15 p2320 N84-24929
Preliminary experiments with an electro-osmotic heat pipe laboratory model
[AD-B061344] 15 p2332 N84-25004
Results of a study of residual stresses and fatigue crack growth in lugs with expanded holes
[NLR-MP-83024-U] 15 p2349 N84-25100
Analysis of deformation and stresses near cold worked holes
[NLR-TR-82113-U] 15 p2349 N84-25101
A multivariate autoregressive display monitoring model
[NLR-MP-83033-U] 15 p2384 N84-25296
Compression and Decompression of Imaging Sensor Signals (CADISS): An image (de)compression system for deep space application
[NLR-MP-83028-U] 15 p2390 N84-25339
Introduction to computer-aided design/computer-aided manufacturing
[NLR-MP-83018-U] 15 p2393 N84-25363
A generalized class of certainty and information measures
[NLR-MP-82038-U] 15 p2397 N84-25379
Numerical computation of vortical flows about wings
16 p2492 N84-25987
Stress gages
[AD-B080780] 16 p2495 N84-26012
Review of aeronautical fatigue investigations in the Netherlands during the period March 1981 - February 1983
[AD-B082166] 16 p2502 N84-26057
Operational loads on B-747 aircraft: Design assumptions, actual experience and maintenance aspects 17 p2585 N84-26569
A quasi-simultaneous calculation method for strongly interacting viscous flow around an infinite swept wing
[NLR-MP-83001-U] 17 p2601 N84-26672
Integrating multigrid relaxation into a robust fast-solver for transonic potential flows around lifting airfoils
[NLR-MP-83021-U] 17 p2601 N84-26673
Transonic panel method for the full potential equation applied to multi-component airfoils
[NLR-MP-83030-U] 17 p2601 N84-26674
Half-model testing in the NLR High Speed Tunnel (HST): Its technique and application
[NLR-MP-83036-U] 17 p2601 N84-26675
Operational loads on B-747 aircraft: Design assumptions, actual experience and maintenance aspects
[NLR-MP-83051-U] 17 p2606 N84-26697
Operating conditions and materials selection and development in gas turbines
[NLR-MP-81012-U] 17 p2610 N84-26705
Inertial-optical attitude determination and model following control of maneuvering spacecraft
[NLR-MP-83053-U] 17 p2616 N84-26742
Fugacity of gaseous hydrogen
[NLR-MP-83038-U] 17 p2669 N84-27019
A numerical view on strong viscous-inviscid interaction
[NLR-MP-83049-U] 17 p2669 N84-27020
Uniaxial model for gas-loaded variable conductance heat pipe performance; the effects of vapor flow, friction and inertia
[NLR-MP-83058-U] 17 p2669 N84-27021
The K-distributions extrapolated on the basis of stress intensity rates
[NLR-MP-83048-U] 17 p2680 N84-27073
Hot spot reflectance measurements applied to green biomass estimation and crop growth monitoring
[NLR-MP-83037-U] 17 p2721 N84-27323
Flight Track and Aircraft Noise Monitoring System (FANAMOS)
[NLR-MP-83043-U] 17 p2725 N84-27343
Implementation of cellular-logic operators using 3 x 3 convolution and table look-up hardware
[NLR-MP-83039-U] 17 p2750 N84-27454
Comparison of some software reliability models for simulated and real failure data
[NLR-MP-83032-U] 17 p2754 N84-27481
A data management and presentation tool for engineering and research
[NLR-MP-83044-U] 17 p2754 N84-27482
An axiomatic theory of concentration and diversity
[NLR-MP-83015-U] 17 p2760 N84-27531
Contributions to the theory of sound propagation in ducts with bulk-reacting lining
[NLR-MP-83064-U] 17 p2763 N84-27551
Dynamic behavior of wind turbines
[NLR-MP-83047-U] 18 p2876 N84-28263
A cost data base for the development of technical/scientific software
[NLR-TR-83047-U] 18 p2922 N84-28529
Current development at National Aerospace Laboratory (NLR) and Fokker in computer aided aerodynamic design
[NLR-MP-83031-U] 18 p2922 N84-28530
A concurrent PASCAL implementation on a Rolm 1664
[NLR-MP-83035-U] 18 p2922 N84-28531
Improved pilot model for application to a computer flight testing program for helicopters
[NLR-MP-83052-U] 20 p3129 N84-29869
Review and comparison of discrete and continuous gust methods for the determination of airplane design loads
[NLR-TR-82134-U] 20 p3132 N84-29886
Half-model testing in the NLR high speed wind tunnel (HST)
[NLR-TR-82123-U] 20 p3132 N84-29891
Description and validation of the two dimensional test setup for multiple airfoils in the pressurized wind tunnel HST
[NLR-TR-83031-U] 20 p3132 N84-29892
The effects of strain rate and temperature on the fracture behavior of three structural adhesives
[AD-B084418] 20 p3164 N84-30097
Prediction and analysis of variable reluctance stepmotor drive systems
[NLR-TR-81139-U] 20 p3182 N84-30216
Grid-size reduction in flow calculations on infinite domains by higher-order far-field asymptotics in numerical boundary conditions
[NLR-MP-83029-U] 20 p3187 N84-30253
Some computational aspects of the stability analysis of nonlinear structures
[NLR-MP-82034-U] 20 p3204 N84-30351
Three image compression algorithms for Compression and Decompression of Imaging Sensor Signals (CADISS)
[NLR-MP-83027-U] 20 p3275 N84-30791
Instrumentation for in-flight acoustic measurements in an engine intake
[NLR-MP-83060-U] 20 p3292 N84-30898
Liquid flow through mesh-wire gauze wicks
[NLR-TR-83104-U] 21 p3403 N84-31592
The influence of Computer Aided Design (CAD) on research
[NLR-MP-83026-U] 21 p3467 N84-31984
Technical evaluation report on the Fluid Dynamics Panel Symposium on Wind Tunnels and Testing Techniques
[AGARD-AR-193] 22 p3539 N84-32402
Application of a probabilistic tracking filter: A first evaluation with emphasis on air traffic control. Part 1: Evaluation results
[NLR-TR-82088-U-PT-1] 23 p3692 N84-33397
Application of a probabilistic tracking filter: A first evaluation with emphasis on air traffic control. Part 2: Live traffic samples
[NLR-TR-82088-U-PT-2] 23 p3692 N84-33398
The microwave landing system (MLS)
[NLR-MP-83070-U] 23 p3692 N84-33399
The application of fiber optics in aircraft instrumentation: Technology assessment
[NLR-TR-83048-U] 23 p3694 N84-33409
Engineering property comparisons of Powder Metallurgy (PM) alloy X7901-T7E69 and Ingot Metallurgy (IM) alloy forgings
[NLR-MEMO-SM-83-050-U] 23 p3720 N84-33583
Detection-filter representations for Markov jump diffusions
[NLR-TR-82019-U] 23 p3820 N84-34226
Determination of performance and stability characteristics from dynamic manoeuvres with a transport aircraft using parameter identification techniques
24 p3847 N84-34400

NATIONAL AEROSPACE LAB., EMMELOORD (NETHERLANDS).

Inertial-optical attitude determination and model following control of maneuvering spacecraft
15 p2267 N84-24613

NATIONAL AEROSPACE LAB., TOKYO (JAPAN).

An approximate method of estimating the aerodynamic interference between two parallel bodies (normal force and side force)
[NAL-TR-752] 04 p0479 N84-13154
A new operation method for a large-scale shock tunnel
[NAL-TR-765] 04 p0487 N84-13200
A study of air breathing rockets. 3: Supersonic mode combustors
[NAL-TR-756] 04 p0489 N84-13213
New relationships for turbulent plumes
[NAL-TR-763] 04 p0532 N84-13495
Tensile strength of pressureless-sintered silicon nitride at elevated temperature
[NAL-TR-753] 04 p0548 N84-13611
Strain analysis of thin composites with Moire method
[NAL-TR-754] 04 p0548 N84-13612
Some grid generations using conformal mapping
[NAL-TR-758] 04 p0586 N84-13871
Grid generation for cascades using conformal mapping
[NAL-TR-760] 04 p0586 N84-13872
Experiment of a shockless transonic airfoil
[NAL-TR-783] 09 p1251 N84-18166
Calculation of three-dimensional flying object in shockless transonic flow
[NAL-TR-782] 09 p1251 N84-18167
Doublet point method for calculations on oscillatory lifting surfaces. Part 1: Subsonic flow
[NAL-TR-781-PT-1] 09 p1251 N84-18168
Strapdown inertial guidance system: Onboard software and its evaluation
[NAL-TR-775] 09 p1254 N84-18184
Numerical simulation of transonic flutter of a high-aspect-ratio transport wing
[NAL-TR-776T] 09 p1257 N84-18208
Instrumentation techniques for aerodynamic heating measurement in NAL hypersonic gun tunnel
[NAL-TR-780] 09 p1258 N84-18213
Results of the test on ONERA calibration model M5 in NAL 2m x 2m Transonic Wind Tunnel
[NAL-TR-774T] 09 p1259 N84-18215
Optimal low-thrust interplanetary orbit transfer including Earth escape spiral trajectory
[NAL-TR-778T] 09 p1266 N84-18264
A method for aerodynamic and aerothermodynamic conceptual design of capsule type reentry vehicle
[NAL-TR-779] 09 p1272 N84-18309
Numerical schemes used in the computer program for nozzle performance predications of liquid rocket engines
[NAL-TR-771] 09 p1274 N84-18316
An experimental and analytical study on spray flow field by liquid/gas coaxial injector elements. 3: Application for the combustion performance prediction model of LO2/LH2 rocket combustion
[NAL-TR-769] 09 p1274 N84-18317
Computations of transonic, chemically reacting flows in rocket nozzles
[NAL-TR-766] 09 p1274 N84-18318

Study of burnout frame rockets. 1: Study of small rocket with burnout frame for weather modifications
[NAL-TR-764] 09 p1274 N84-18319
Theoretical treatment of the mechanism of residual thrust
[NAL-TR-777] 09 p1274 N84-18320
In-plane shear properties of a fabric-CFRP/aluminum-honeycomb sandwich construction
[NAL-TR-773] 09 p1275 N84-18327
Pneumatic atomisation with coaxial injectors: Measurements of drop size by diffraction method and liquid phase fraction by attenuation method
[NAL-TR-768] 09 p1312 N84-18574
Nonlinear sloshing analysis of liquid in containers with arbitrary geometries
[NAL-TR-757] 09 p1313 N84-18579
On an extension of free stream-line theory
[NAL-TR-772] 09 p1313 N84-18580
Buckling strength of corrugated shear webs
[NAL-TR-759] 09 p1330 N84-18684
Dual corelated random excitation technique for modal testing
[NAL-TR-762] 09 p1372 N84-18962
Suppression of peak noise by reshaping coaxial flow circumferentially under static conditions
[NAL-TR-770] 09 p1386 N84-19053
Scattering distribution characteristics of rare gases reflected from metal surface with absorbed gas molecules
[NAL-TR-761] 09 p1394 N84-19101
Lunar exploration by polar orbiter
[NAL-TR-755] 09 p1416 N84-19265
Shock and seismic response spectra in design problems 10 p1506 N84-19856
An experimental study on the induced rolling moment due to wing-tail interference and roll-controllable two-stage rocket
[NAL-TR-793] 12 p1777 N84-21599
A transportable cryostat
[NAL-TR-791] 12 p1818 N84-21850
An experimental and analytical study of spray flow fields formed by liquid/gas coaxial injector elements
[NAL-TR-745] 15 p2331 N84-24997
Doublet point method for calculations on oscillatory lifting surfaces. Part 2: Supersonic flow
[NAL-TR-785-PT-2] 16 p2439 N84-25649
Wind tunnel investigation of the rolling moment of a rectangular wind with some winglets on the left upper tip
[NAL-TR-788] 16 p2440 N84-25650
Aerodynamic characteristics of fan-jet STOL aircraft
[NAL-TR-790] 16 p2440 N84-25651
A study of liquid hydrogen cooled LO2/LH2 rocket combustor with channel wall construction
[NAL-TR-767] 16 p2459 N84-25763
Threadwise analysis of woven fabric composites
[NAL-TR-792T] 16 p2470 N84-25832
Evaluation of thermocouple and thermal radiation instrumentation for measuring gas turbine combustor liner temperature
[NAL-TR-784] 16 p2495 N84-26009
Effect of outer race misalignment on the high speed performance of ball bearings
[NAL-TR-786] 16 p2498 N84-26028
Creep deformation measurement of polymer strips after buckling by Moire method
[NAL-TR-789] 16 p2501 N84-26055
Perception of the movement of visual scenes during horizontal body rotation
[NAL-TR-787] 16 p2538 N84-26292
Some methods for numerical conformal mapping
[NAL-TR-794T] 16 p2548 N84-26354
National Aerospace Laboratory, 1982
19 p2969 N84-28813

NATIONAL AIR AND SPACE MUSEUM, WASHINGTON, D.C.
Morphology of buried craters: Lava thickness estimates by simulated flooding 13 p2079 N84-23471
Compressional features in the Tharsis Region of Mars: Geographic 13 p2090 N84-23538
Compressional features in the Tharsis Region of Mars: Orientations and Timing of Deformation
13 p2090 N84-23539

NATIONAL ASSOCIATION OF HOME BUILDERS RESEARCH FOUNDATION, INC., ROCKVILLE, MD.
Development of an industry-based residential thermal program evaluation program 16 p2515 N84-26139
International energy agency solar heating and cooling programme: Task 8, passive and hybrid solar low energy buildings 16 p2515 N84-26140

NATIONAL ASTRONOMY AND IONOSPHERE CENTER, ARECIBO, PUERTO RICO.
Volcanism and rift formation in Beta Regio, Venus: New radar results 11 p1754 N84-21450

NATIONAL BIOMEDICAL RESEARCH FOUNDATION, WASHINGTON, D. C.
Investigation of compounds essential for the origin of life
[NASA-CR-173538] 15 p2378 N84-25272

NATIONAL BUILDING RESEARCH INST., PRETORIA (SOUTH AFRICA).
High alumina cement concrete
[CSIR-BRR-573] 04 p0505 N84-13311
An analysis of cloud cover at Johannesburg, Cape Town and Durban, in South Africa
[CSIR-NBRI-SR-BOU-60] 04 p0566 N84-13734

NATIONAL BUREAU OF ECONOMIC RESEARCH, INC., WASHINGTON, D. C.
Microstructure and electrical properties of ceria-based ceramic electrolytes 11 p1741 N84-21361

NATIONAL BUREAU OF STANDARDS, BOULDER, COLO.
Multi-scale analyses of meteorological conditions affecting Pan American World Airways flight 759
[PB83-222562] 01 p0006 N84-10040
Tensile, compressive, and shear properties of a 64-kg/m3 polyurethane foam at low temperatures
[PB83-204818] 01 p0051 N84-10330
Measured ionospheric Doppler spreading of HF ground backscatter
[PB83-220764] 01 p0068 N84-10446
Atmospheric infrared backscatter:: Summary of present knowledge and recommendations for future work
[PB83-222281] 01 p0106 N84-10690
Applied J-integral in HY130 tensile panels and implications for fitness for service assessment
[PB83-240598] 02 p0196 N84-11290
Approximate formulas for the far fields and gain of open-ended rectangular waveguide
[PB83-233999] 02 p0212 N84-11384
Materials studies for magnetic fusion energy applications at low temperatures, part 6
[PB83-259630] 05 p0657 N84-14320
Measurement of multimode optical fiber attenuation
[PB83-151207] 05 p0748 N84-14913
A cryocooler for applications requiring low magnetic and mechanical interference 06 p0818 N84-15333
An approach to optimization of low-power Stirling cryocoolers 06 p0818 N84-15334
Hydrogen sulfide provisional thermophysical properties from 188 to 700 K at pressures to 75 MPa
[PB84-122704] 08 p1127 N84-17329
Handbook for broadband isotropic antenna system. Volume 1: Operation manual
[PB84-101948] 08 p1153 N84-17510
Effects of variations in heat treatment on the mechanical properties and microstructure of ASTM A710 Grade A Class 3 steel
[AD-A136328] 09 p1282 N84-18371
Picosecond time difference measurements utilizing CAMAC-based ANSI/IEEE-488 data acquisition hardware. Operating manual IE3, version 1.0
[PB84-116011] 09 p1319 N84-18616
Nonlinear least squares regression using STAR-PAC: The standards time series and regression package
[PB84-166214] 15 p2394 N84-25365
Reference flat pulse generator
[PB84-162163] 17 p2672 N84-27030
2.0 GHz to 4.0 GHz automated radiometer operation and service manual
[PB84-165158] 17 p2672 N84-27031
Introduction to STARPAC. The standards time series and regression package
[PB84-178367] 17 p2755 N84-27492
Electron excitation of vibrational states of D2 and H2 and detection of excited states by laser-induced fluorescence
[AD-A141038] 18 p2846 N84-28070
Residual stress measurements using shear-horizontal waves from electromagnetic acoustic transducers
[PB84-190636] 20 p3176 N84-30171
Measurement of multimode optical fiber attenuation: An NBS special test service
[PB84-192202] 21 p3499 N84-32179

NATIONAL BUREAU OF STANDARDS, GAITHERSBURG, MD.
Microsegregation during directional solidification
24 p3882 N84-34587

NATIONAL BUREAU OF STANDARDS, WASHINGTON, D.C.
The mechanism of anaerobic (microbial) corrosion
[AD-A131223] 01 p0044 N84-10283
Turbulent wind effects on tension leg platform surge
[PB83-207464] 01 p0058 N84-10376
Numerical procedure for an inviscid stability analysis of an axisymmetric jet
[PB83-224071] 01 p0083 N84-10537
Development of a calorimeter forimultaneously measuring heat release and mass loss rates
[PB83-222711] 01 p0085 N84-10555
Project for improved performance of radiometric standard detectors (110-380 nm)
[PB83-224014] 01 p0085 N84-10556
Assessment of ultrasonic reference block calibration methodology
[PB83-225870] 01 p0086 N84-10558
Utility programs for generating the Hershey character fonts on microcomputers and laboratory plotters
[PB83-220467] 01 p0125 N84-10813
Computer modeling of the vapor compression cycle with constant flow area expansion device
[PB83-226639] 01 p0156 N84-11029
Computer modeling of the vapor compression cycle with constant flow area expansion device: Appendix J
[PB83-226647] 01 p0156 N84-11030
Journal of Research of the National Bureau of Standards, volume 88, number 1, January - February 1983
[PB83-226704] 01 p0160 N84-11055
Journal of Research of the National Bureau of Standards. Volume 87, Number 6, November-December 1982
[PB83-226670] 01 p0160 N84-11056
Significance of a wall effect in enclosures with growing fires
[PB83-235671] 02 p0192 N84-11247
Laser-Cooled and Trapped Atoms
[PB83-238196] 02 p0192 N84-11249
Relationship between morphology and mechanical properties of ultra high molecular weight polyethylene
[PB83-240960] 02 p0202 N84-11317
Computer science and technology: Microcomputer: A review of federal agency experiences
[PB83-238972] 02 p0271 N84-11772
FASTMENU: A set of FORTRAN programs for analyzing surface texture
[PB83-240838] 02 p0276 N84-11804
Computer science and technology: Care and handling of computer magnetic storage media
[PB83-237271] 02 p0276 N84-11809
Performance of add-on-type heat pump water heaters using two different test methods
[PB83-222703] 03 p0359 N84-12332
Center for electronics and electrical engineering technical progress bulletin covering signals and systems program, April 1982 - September 1982
[PB83-241158] 03 p0369 N84-12405
Nondestructive evaluation publications, 1981
[PB83-239574] 03 p0386 N84-12517
Thermodynamic surface for water: The formulation and computer programs
[PB83-249789] 04 p0496 N84-13256
Fire investigation 04 p0510 N84-13344
Building systems and smoke control
04 p0511 N84-13348
Recent US progress in fire growth modeling
04 p0511 N84-13354
Emergency evacuation flow models
04 p0512 N84-13360
Escape and rescue model 04 p0512 N84-13361
Measuring evacuation difficulty
04 p0512 N84-13363
Recent progress at NBS in fire growth modeling
04 p0513 N84-13372
Study of biological samples obtained from victims of MGM Grand Hotel fire 04 p0514 N84-13374
Lateral-torsional response of structures subjected to seismic waves
[PB83-239582] 04 p0516 N84-13390
Programmer's manual for the fire safety evaluation system cost minimizer computer program
[PB83-251447] 04 p0517 N84-13395
Proceedings of the 3rd LAN-Transport Workshop. Report of the third workshop for local area network implementors of the NBS specifications of the International Standards Organization transport class 4 protocol: Special interest group on file transfer protocol
[PB83-251348] 04 p0555 N84-13657
Size of letters required for visibility as a function of viewing distance and observer visual acuity
[PB83-250589] 04 p0574 N84-13782
Specification and interpretation of data modal semantics: An integration of two approaches
[PB83-249714] 04 p0584 N84-13856
Proceedings of the Third LAN-Transport Workshop. Report of the Third Workshop for Local Area Network Implementors of the NBS Specifications of the International Standards Organization Transport Class 4 Protocol Special Interest Group on File Transfer Protocol
[PB83-251348] 04 p0584 N84-13857
Application of quantum chemistry to atmospheric chemistry
[AD-A133636] 05 p0648 N84-14261
Application of solidification theory to rapid solidification processing
[AD-A134132] 05 p0653 N84-14291

Effect of contact damage on the strength of ceramic materials
[AD-A133746] 05 p0658 N84-14327
Temperature dependent hysteresis study in polyvinylidene fluoride
[AD-A132675] 05 p0658 N84-14331
Rigorous bounds for the calculated dielectric constants of ferroelectric polymers
[AD-A132741] 05 p0659 N84-14332
Pre-existing polarization and influence of electrode materials on PVF2 electrets as determined by thermal pulse and pyroelectric methods
[AD-A132696] 05 p0659 N84-14335
Semiconductor measurement technology: A FORTRAN program for analysis of data from microelectronic test structures
[PB83-263764] 05 p0677 N84-14454
Prediction of floating solid velocities in unsteady partially filled pipe flow
[PB83-259586] 05 p0682 N84-14484
Photonuclear data index, 1973-1981, supplement 2 to NBS (National Bureau of Standards) special publication 380
[PB83-251363] 05 p0746 N84-14898
Simulated precipitation reference materials, 4
[PB83-139376] 06 p0883 N84-15742
Computer science and technology: Future information processing technology, 1983
[PB83-257616] 06 p0896 N84-15820
Laser cooling and trapping of neutral atoms
[AD-A134333] 07 p1009 N84-16547
General review of numerical data bases
07 p1087 N84-17067
Look at techniques for the dimensional calibration of standard microscopic particles
[PB84-112648] 08 p1126 N84-17324
Ozone reactions in aqueous solutions: A bibliography
[PB84-109883] 08 p1127 N84-17325
Journal of Research of the National Bureau of Standards. Volume 88, Number 3, May-June 1983
[PB84-115799] 08 p1127 N84-17326
Passive films, surface structure and stress corrosion and crevice corrosion susceptibility
[AD-A135549] 08 p1132 N84-17363
NBS (National Bureau of Standards): Materials measurements
[NASA-CR-173162] 08 p1136 N84-17364
Journal of Research of the National Bureau of Standards. Volume 88, Number 5, September-October 1983
[PB84-125293] 08 p1139 N84-17406
Report of the 68th National Conference on Weights and Measures 1983
[PB84-110998] 08 p1141 N84-17425
Civilian residential fire fatality rates: Six high-rate states versus six low-rate states
[PB84-102615] 08 p1142 N84-17427
Development of power system measurements
[PB84-109691] 08 p1153 N84-17509
AC voltage calibrations for the 0.1 Hz to 10 Hz frequency range
[PB84-109667] 08 p1163 N84-17570
National Bureau of Standards Journal of Research, volume 88, no. 4, July - August 1983
[PB84-115849] 08 p1163 N84-17571
Specifications, tolerances, and other technical requirements for weighing and measuring devices
[PB84-125764] 08 p1163 N84-17572
Determination of the viscoelastic shear modulus using forced torsional vibrations
[PB84-119700] 08 p1173 N84-17638
Computer Science and Technology: Proceedings of the 19th Meeting of the Computer Performance Evaluation Users Group (CPEUG)
[PB84-114529] 08 p1210 N84-17892
Initial graphics exchange specification test library, version 1.3
[PB84-102144] 08 p1214 N84-17922
Application of solidification theory to rapid solidification processing
[AD-A135882] 09 p1263 N84-18360
Calculations of wall fire spread in an enclosure
[PB84-123165] 09 p1297 N84-18481
Proceedings of a Symposium on Laser Induced Damage in Optical Materials: 1981
[PB84-127869] 09 p1324 N84-18649
Guidance on software maintenance
[PB84-128951] 09 p1371 N84-18952
Optical time-domain reflectometer performance and calibration studies
[PB84-110964] 09 p1390 N84-19082
Hysteresis in copolymers of vinylidene fluoride and trifluoroethylene
[AD-A137446] 10 p1466 N84-19577
Stress corrosion of ceramic materials
[AD-A136729] 10 p1467 N84-19581
A high-speed data acquisition system for fluid mechanics measurements
[PB84-134592] 10 p1496 N84-19781
Performance criteria for restoration coatings for porcelain enamel surfaces
[PB84-141787] 11 p1638 N84-20709
Tensile, comprehensive and sharp properties of a 96 kg/m3 cubic meter Polyurethane foam at low temperatures
[PB84-143643] 11 p1638 N84-20710
The characteristics of iris-fed millimeterwave rectangular microstrip patch antennas
[PB84-134634] 11 p1648 N84-20775
Calibration of vibration pickups at high frequencies
[AD-P002691] 11 p1659 N84-20826
Center for Electronics and Electrical Engineering Technical Progress Bulletin covering center programs, October - December 1982
[PB84-137322] 11 p1705 N84-21115
Proceedings of the 4th LAN-Transport Workshop
[PB84-138825] 11 p1705 N84-21116
Specifications for a federal information processing standard data dictionary system
11 p1749 N84-21414
Standard reference material containing 2.5 percent austenite (SRM 488)
[PB84-143296] 12 p1799 N84-21735
Characterization of acid rain for source identification. Task 1: Sulfur isotope rationing
[DE84-006510] 12 p1845 N84-22030
IGES, a key interface specification for CAD/CAM systems integration 12 p1874 N84-22215
Data distribution in the NBS Automated Manufacturing Reseach Facility 12 p1891 N84-22315
Polymer Science and Standards Divisions report, 1983
14 p2130 N84-23773
Fiberoptic probe for measuring high frequency temperature fluctuations in combustion gases
[DE84-006784] 14 p2148 N84-23869
Standard Reference Materials (SRM) 1969: Rubidium triple-point standard: A temperature reference standard near 39.30C
[PB84-149996] 14 p2149 N84-23876
Measurement techniques for high-resistivity detector-grade silicon
[PB84-155902] 14 p2149 N84-23877
Bibliography of the literature on optical storage technology
[PB84-150184] 14 p2204 N84-24227
Computer science and technology: Guide on data models in the selection and use of database management systems
[PB84-162189] 14 p2206 N84-24243
Journal of Research of the National Bureau of Standards. Volume 88, Number 6, November-December 1983
[PB84-160605] 14 p2220 N84-24322
Piece-wise analytic evaluation of the radiative tail from elastic and inelastic electron scattering
[PB84-155290] 14 p2223 N84-24342
Optical fiber characterization: Attenuation, frequency domain bandwidth, and radiation patterns, volume 2
[PB84-158914] 14 p2226 N84-24357
Proceedings of the 12th Joint Panel Conference of the US-Japan Cooperative Program in Natural Resources: Wind and Seismic Effects
[PB84-167758] 15 p2318 N84-24911
Computer science and technology: Selection of microcomputer systems
[PB84-167725] 15 p2389 N84-25331
Retroreflectance MAP (Measurement Assurance Program) service for coefficient of luminous intensity
[PB84-164938] 15 p2408 N84-25457
Mechanical behavior of ultra high molecular weight polyethylene
[PB84-175538] 16 p2473 N84-25851
Assessing the credibility of the calorific value of municipal solid waste
[PB84-175470] 16 p2474 N84-25861
Thermal actuation of extinguishing systems
[PB84-177156] 16 p2478 N84-25886
Results from the NBS passive test building: A status report 16 p2514 N84-26135
Initial results from testing passive solar components in the NBS calorimeter 16 p2517 N84-26160
Guide to available mathematical software
[PB84-171305] 16 p2545 N84-26337
Survey of sensitivity analysis methodology
[PB84-166701] 16 p2552 N84-26375
Techniques in high-temperature resistance thermometry. 1: Construction of the NBS-design high temperature platinum resistance thermometer. 2: Toroidal resistor for high-temperature platinum resistance thermometers
[PB84-164110] 17 p2672 N84-27029
Materials research activities at the National Bureau of Standards (1975-1982) pertaining to active solar heating and cooling systems
[PB84-154780] 17 p2723 N84-27332
Comparing software development methodologies for Ada (trade name): A study plan
[PB84-178029] 17 p2755 N84-27491
Assessment of techniques for evaluating computer systems for Federal Agency procurements
[PB84-176494] 17 p2756 N84-27496
Friction and wear characteristics of molecular compound classes from lubricating base oils. Part 1: Separation and chemical characterization
[PB84-167741] 18 p2820 N84-27904
Electron emission and ion desorption spectroscopy of clean and oxidized Ti(0001)
[AD-A141319] 18 p2930 N84-28579
Free radical detection and dynamics in propellant ignition and combustion systems
[AD-A142180] 19 p3002 N84-29023
Summary of work on cooled ion frequency standard, fiscal year 1984
[AD-A142189] 19 p3007 N84-29061
An investigation of lyolinescence techniques for application in radiation protection dosimetry
[PB83-263236] 19 p3053 N84-29373
Decision analysis model for passenger-aircraft fire safety with application to fire-blocking of seats
[AD-A142477] 20 p3127 N84-29859
Fire induced flows through room openings - flow coefficients
[PB84-176759] 20 p3151 N84-30011
Characterization of organometallic polymers by chromatographic methods and nuclear magnetic resonance, part 2
[PB84-183599] 20 p3165 N84-30100
Directional extreme wind speed data for the design of buildings and other structures
[PB84-178847] 20 p3171 N84-30139
Computer science and technology: Report on approaches to database translation
[NBS-SP-500-115] 20 p3268 N84-30739
Computer science and technology: Introduction to software packages
[NBS-SP-500-114] 20 p3268 N84-30740
Measurement techniques for high-power semiconductor materials and devices
[DE84-010425] 20 p3309 N84-31016
Laboratory evaluation of the steady-state and part load performance of absorption type heating and cooling equipment
[PB84-182146] 21 p3376 N84-31426
Triply differential studies of atomic and molecular photoionization using synchrotron radiation
[AD-A142834] 21 p3493 N84-32133
I/O channel interface
[NBS-FIPS-PUB-60-2] 22 p3637 N84-33057
The NBS data management technology program
22 p3672 N84-33277
Liquified natural gas densities: Summary of research program at the National Bureau of Standards
[PB84-202647] 22 p3675 N84-33297

NATIONAL CENTER FOR APPROPRIATE TECHNOLOGY, BUTTE, MONT.
Using the earth to heat and cool homes
[DE84-007102] 12 p1816 N84-21840
Technical assistance and information dissemination for the appropriate technology small grants program
[DE84-010957] 20 p3313 N84-31042
Appropriate technology management information system
[DE84-010952] 20 p3315 N84-31056

NATIONAL CENTER FOR ATMOSPHERIC RESEARCH, BOULDER, COLO.
Mechanism and rates of the gas phase oxidations of sulfur dioxide and the nitrogen oxides in the atmosphere
[PB83-231324] 01 p0106 N84-10691
Description of NCAR (National Center for Atmospheric Research) community climate model (CCMOB)
[PB83-231068] 01 p0110 N84-10715
The mechanism of meteorological noise
[PB83-241489] 02 p0257 N84-11681
Theory of winds in late-type evolved and pre-main-sequence stars 03 p0468 N84-13085
Stellar winds driven by multi-line scattering
03 p0469 N84-13087
Interplanetary scintillation observations of the solar wind close to the Sun and out of the ecliptic
03 p0471 N84-13102
Quasi-steady solar wind dynamics
03 p0474 N84-13120
Documentation of NCAR (National Center for Atmospheric Research) CCMOB program modules
[PB83-263996] 05 p0710 N84-14651

Users' guide for the NCAR (National Center for Atmospheric Research) CCM (Community Climate Model) modular processor
[PB83-264002] 05 p0710 N84-14652
Effect of diabatic and frictional processes on frontal circulations
[PB84-104074] 08 p1193 N84-17778
Frontogenesis in a moist atmosphere
[PB84-104066] 08 p1193 N84-17779
Evaluation of performance measures for an urban photochemical model
[PB84-115062] 09 p1343 N84-18771
Guide to transform software for nonlinear normal-mode initialization of the NCAR community forecast model
[PB84-119130] 09 p1350 N84-18820
2nd Joint Solar Dynamics Project data summary: Solar magnetic field, chromospheric and coronal observations near the time of the 11 June 1983 solar eclipse
[NASA-CR-173340] 09 p1417 N84-19272
Regional acid deposition: Models and physical processes
[PB84-115997] 10 p1532 N84-20035
Regional acid deposition: Design and management plan for a comprehensive modeling system
[PB84-116003] 10 p1532 N84-20037
Simulation of midlatitude variability
[AD-P002655] 11 p1690 N84-21020
On the mean dynamical balances of the Gulf Stream Recirculation Zone
[AD-P002661] 11 p1691 N84-21026
Computer communications with Mauna Loa Solar Observatory
[PB84-137256] 11 p1705 N84-21114
Summary of solar activity observed in the Mauna Loa Solar Observatory, 1980 - 1983
[PB84-137587] 11 p1760 N84-21484
Case studies on convective storms, case study 1, 13 July 1978: First echo case
[PB84-147479] 12 p1862 N84-22134
Experimental study of the fluxes of reduced sulfur gasses from a salt water marsh
[PB84-159318] 14 p2181 N84-24064
Applications of airborne remote sensing in atmospheric sciences research 17 p2715 N84-27286
Evaluation of meteorological airborne Doppler radar 17 p2715 N84-27287
Precipitation and precipitation efficiencies derived from single Doppler radar 18 p2887 N84-28321
Doppler weather radar applications to terminal and enroute air traffic control 18 p2887 N84-28324
Atmospheric chemistry of H2O2, NO3, HONO, and HNO3: Influence of aqueous phase and heterogeneous processes
[PB84-183680] 20 p3243 N84-30592
Monthly mean determination of the solar semidiurnal surface pressure oscillation at Batavia from 1866 through 1944
[PB84-184795] 20 p3244 N84-30593
National Center for Atmospheric Research
[PB84-183581] 20 p3249 N84-30621
White light solar corona: An atlas of 1983 K-coronameter synoptic charts
[PB84-184159] 20 p3320 N84-31075
Extending normal mode initialization: A new method
[PB84-196435] 21 p3449 N84-31885
Measurements inside Oklahoma thunderstorms
[PB84-206911] 21 p3450 N84-31891
Studies in climate
[PB84-196385] 22 p3626 N84-32977
Normal modes of the NCAR (National Center for Atmospheric Research) Community Forecast Model (CFM)
[PB84-191220] 22 p3642 N84-33094

NATIONAL CENTER FOR DEVICES AND RADIOLOGICAL HEALTH, ROCKVILLE, MD.
Sterile devices: A GMP (Good Manufacturing Practices) workshop manual
[PB83-226563] 01 p0061 N84-10400
Performance of a new 916 MHz direct contact applicator with reduced leakage, a detailed analysis
[PB83-226621] 01 p0114 N84-10742
Instrumentation for nonionizing radiation measurement
[PB84-180603] 20 p3191 N84-30271

NATIONAL CENTRAL UNIV., CHUNG-LI (TAIWAN).
Chung-Li, Taiwan dual mode (Doppler and spaced antenna) VHF radar: Preliminary specifications 17 p2691 N84-27141
A study of multispectral model of land cover 24 p3955 N84-35042
Study of metal-insulator transition 24 p3955 N84-35044
Model study of the atmospheric frontogenesis. 2: Theoretical model 24 p3956 N84-35047
The geologic and geophysical study of the Hengchung Peninsula, southern Taiwan, 1 24 p3957 N84-35052

NATIONAL CENTRE OF TRIBOLOGY, RISLEY (ENGLAND).
Thermal conductance and torque of thin section four-point contact ball bearings in vacuum
[ESA-ESTL-54] 06 p0853 N84-15562
Activities report of the European Space Tribology Laboratory (ESTL)
[ESA-ESTL-55] 06 p0853 N84-15563
Torque properties of oscillating, dry-lubricated ball bearings in vacuum
[ESA-ESTL-57] 23 p3758 N84-33820

NATIONAL CHENG KUNG UNIV., TAINAN (TAIWAN).
Finite element analysis of axisymmetric forging 15 p2307 N84-24838
Vibrations and stability of thick plates 24 p3958 N84-35059
Post-buckling of initially stressed thick plates 24 p3958 N84-35060

NATIONAL CHIAO TUNG UNIV., HSINCHU (TAIWAN).
A computer program designed for contour chart plotting 24 p3959 N84-35088

NATIONAL CHUNG HSING UNIV., TAICHUNG (TAIWAN).
Some algebraic properties of the monoid of languages and its applications 24 p3955 N84-35040
On the Skorohod representation 24 p3955 N84-35041
Boundary layer thermal stresses in cross-ply composite laminates 24 p3958 N84-35057

NATIONAL CLASSIFICATION MANAGEMENT SOCIETY, ALEXANDRIA, VA.
Classification management. Journal of the National Classification Management Society, volume 18, 1982
[AD-A138480] 12 p1919 N84-22502

NATIONAL CLASSIFICATION MANAGEMENT SOCIETY, INC.
Classification management. Journal of the national classification management society, volume 19, 1983
[AD-A143015] 21 p3518 N84-32286

NATIONAL CLIMATE PROGRAM OFFICE, ROCKVILLE, MD.
Proceedings of the Conference on Cooperative Climate Services
[PB84-152081] 12 p1863 N84-22137

NATIONAL CLIMATE PROGRAM OFFICE, WASHINGTON, D.C.
National Climate Program
[PB83-253278] 05 p0710 N84-14649

NATIONAL CLIMATIC CENTER, ASHEVILLE, N. C.
Wind and wave summaries for selected U.S. Coast Guard operating areas
[AD-A130647] 01 p0108 N84-10702

NATIONAL COMMISSION ON LIBRARIES AND INFORMATION SCIENCE, WASHINGTON, D. C.
Preserve the sense of Earth from space
[DE84-900854] 15 p2359 N84-25159
Goals and activities of the National Commission on Libraries and Information Science
[ISSN-0091-2972] 22 p3673 N84-33282
A decade of accomplishment
[ISSN-0091-2972] 22 p3673 N84-33283

NATIONAL CONCRETE MASONRY ASSOCIATION, HERNDON, VA.
Multi-family update to the passive solar construction handbook 16 p2516 N84-26149

NATIONAL DEFENCE HEADQUARTERS, OTTAWA (ONTARIO).
Satellite tactical communications at high altitudes
[AD-P002145] 14 p2137 N84-23810
Optimization of satellite orbital parameters for oceanic surveillance
[AD-P002158] 14 p2139 N84-23824
Corrosion control maintenance practices for Canadian aircraft 16 p2435 N84-25621

NATIONAL DEFENSE UNIV., WASHINGTON, D. C.
The national space program from the fifties into the eighties
[AD-A134799] 08 p1107 N84-17197
Cohesion in the US military
[AD-A140828] 17 p2747 N84-27439

NATIONAL ELECTRICAL ENGINEERING RESEARCH INST., PRETORIA (SOUTH AFRICA).
The 1980 International Aerospace Conference on Lightning and Static Electricity
[CSIR-ELEK-249] 04 p0566 N84-13733
Integrated circuit failure mechanism detected by IMMA 06 p0815 N84-15305
Environmental factors as a source of failure in integrated circuits 08 p1168 N84-17604

NATIONAL ENGINEERING LAB., EAST KILBRIDE (SCOTLAND).
The development of a multi-axis hydraulic vibration test facility at the National Engineering Laboratory, Scotland 03 p0339 N84-12200
Flow measurement facilities at NEL on 1 August 1983
[NEL-686] 13 p1991 N84-22924

NATIONAL ENVIRONMENTAL SATELLITE CENTER, WASHINGTON, D. C.
Spatial and temporal distribution of Northern Hemisphere snow cover
[PB84-118348] 09 p1350 N84-18819
Precipitation monitoring over land from satellites by microwave radiometry 23 p3774 N84-33924

NATIONAL ENVIRONMENTAL SATELLITE SERVICE, WASHINGTON, D. C.
Determination of the planetary radiation budget from TIROS-N satellites
[PB84-100916] 08 p1189 N84-17748
A statistical technique for forecasting severe weather from vertical soundings by satellite and radiosonde
[PB84-114099] 08 p1192 N84-17772
NOAA (National Oceanic and Atmospheric Administration) satellite programs briefing
[PB84-108349] 08 p1193 N84-17781
Fire detection using the NOAA (National Oceanic and Atmospheric Administration)-series satellites
[PB84-176890] 17 p2722 N84-27324
Mariners Weather Log, Volume 28, Number 1, January-February-March 1984
[PB84-175710] 17 p2735 N84-27385
Monitoring of long waves in the eastern Equatorial pacific 1981-1983 using satellite multi-channel sea surface temperature charts
[PB84-190487] 21 p3451 N84-31900

NATIONAL GAS TURBINE ESTABLISHMENT, FARNBOROUGH (ENGLAND).
Application of an inviscid-viscous interaction method to transonic compressor cascades 07 p0954 N84-16190

NATIONAL GEODETIC SURVEY, ROCKVILLE, MD.
Subsidence monitoring for state of Arizona
[PB84-126960] 08 p1189 N84-17750
Statistical tests for detecting crustal movements using Bayesian inference
[PB84-198811] 21 p3445 N84-31861
HEART OF GOLD: Computer routines for large sparse, least squares computations
[PB84-196492] 21 p3467 N84-31987

NATIONAL GEOPHYSICAL AND SOLAR-TERRESTRIAL DATA CENTER, BOULDER, COLO.
Solar-geophysical data number 465, May 1983. Part 2: (Comprehensive reports). Data for November 1982, October 1980 and miscellanea
[PB83-228551] 01 p0165 N84-11081
Solar-geophysical data number 462, February 1983. (Supplement). Explanation of data reports
[PB83-216234] 01 p0166 N84-11089
Solar-geophysical data, number 463, March 1983. Part 2: (Comprehensive reports). Data for September 1982, September 1980 and miscellanea. Explanation of data reports issued as number 462 (supplement) February 1983
[PB83-216317] 01 p0166 N84-11090
Solar-geophysical data number 464, April 1983. Part 1: Prompt report. Data for March 1983, February 1983 and late data. Explanation of data reports issued as number 462 (supplement) February 1983
[PB83-222489] 01 p0166 N84-11091
Solar-Geophysical Data number 465, May 1983. Part 1: Prompt reports. Data for April and March 1983, and late data
[PB83-228544] 02 p0305 N84-12005
Solar-geophysical data number 464, April 1983. Part 2: (Comprehensive reports). Data for October 1982 and Miscellanea
[PB83-222497] 02 p0306 N84-12022
Natural hazards photograph catalog, key to geophysical records documentation no. 20
[PB83-250415] 04 p0557 N84-13674
Solar-geophysical data center number 467, July 1983, part 1 (prompt reports). Data for June 1983, May 1983 and late data
[PB84-100486] 08 p1246 N84-18144
Solar-geophysical data number 467, July 1983, part 2 (comprehensive reports). Data for January 1983, November 1980 and miscellanea
[PB84-100494] 08 p1246 N84-18145
Solar-geophysical data number 468, August 1983. Part 1. (Prompt reports). Data for July 1983, June 1983 and late data
[PB84-116573] 09 p1417 N84-19270
Solar-geophysical data number 468, August 1983. Part 2. (Comprehensive reports). Data for February 1983 and miscellanea
[PB84-116581] 09 p1417 N84-19271
Catalog of seismogram archives (revised)
[PB84-127976] 10 p1537 N84-20074
Proceedings of Aeromagnetic Data Workshop
[PB84-127125] 10 p1538 N84-20077

NATIONAL GEOPHYSICAL DATA CENTER, BOULDER, COLO.
Solar-geophysical data comprehensive reports, no. 466. Data for December 1982 and miscellanea. Explanation of data reports issued as number 462 (supplement), part 2
[PB83-253443] 05 p0765 N84-15018
Solar-geophysical data prompt report, no. 466. Data for May 1983, April 1983 and late data. Explanation of data reports issued as number 462 (supplement), part 1
[PB83-253435] 07 p1093 N84-17107
Solar-goephysical data number 469, September 1983. Part 1: (Prompt reports. Data for August 1983, July 1983 and late data)
[PB84-125913] 09 p1417 N84-19273
Solar-geophysical data number 469, September 1983, part 2 (comprehensive reports). Data for March 1983 and miscellanea
[PB84-125921] 09 p1417 N84-19274
Solar-geophysical data no. 470, October 1983. Part 2: (Comprehensive reports). Data for April 1983, December 1980, January 1981 and miscellanea
[PB84-140367] 11 p1760 N84-21483
Solar-geophysical data no. 470, October 1983. Part 1: (Prompt reports), data for September 1983, August 1983 and late data
[PB84-140359] 12 p1923 N84-22526
Solar-Geophysical Data number 471, November 1983. Part 1: (Prompt reports). Data for October 1983, September 1983 and late data
[PB84-156991] 14 p2252 N84-24523
Solar-Geophysical Data number 471, November 1983. Part 2: Comprehensive reports. Data for May 1983 and miscellanea
[PB84-157007] 14 p2252 N84-24524
Solar-geophysical data number 473. Part 1: (Prompt reports) data for December 1983, November 1983 and late data
[PB84-180611] 20 p3320 N84-31073
Solar-geophysical data number 473. Part 2: (Comprehensive reports) data for July 1983, March 1981 and miscellanea
[PB84-180629] 20 p3320 N84-31074
Solar-geophysical data prompt reports, February 1984, number 474. Part 1: Data for January 1984, December 1983 and late data. Explanation of data reports issued as number 474 (supplement) February 1984
[PB84-186669] 20 p3320 N84-31076
Solar-geophysical data comprehensive reports, February 1984, number 474. Part 2: Data for August 1983, April 1981 and miscellanea. Explanation of data reports issued as number 474 (supplement) February 1984
[PB84-186671] 20 p3320 N84-31077
Solar-geophysical data explanation of reports, February 1984, number 474, supplement
[PB84-186697] 20 p3320 N84-31078
Solar-Geophysical Data, no. 475, March 1984. Part 1: Prompt reports. Data for September 1983, May 1981
[PB84-201508] 22 p3680 N84-33329
Solar-Geophysical Data, no. 475, March 1984. Part 2: Comprehensive reports. Data for September 1983, May 1981 and miscellanea
[PB84-201516] 22 p3680 N84-33330

NATIONAL HURRICANE CENTER, CORAL GABLES, FLA.
Tropical cyclone data tape for the North Atlantic Basin, 1886 - 1983: Contents, limitations and uses
[NOAA-TM-MWS-NHC-22] 16 p2531 N84-26252
National Weather Service hurricane probability program
[PB84-182757] 20 p3248 N84-30619

NATIONAL HURRICANE CENTER, MIAMI, FLA.
Annual data and verification tabulation Atlantic tropical cyclones, 1983
[PB84-161330] 14 p2181 N84-24067

NATIONAL INST. FOR AERONAUTICS AND SYSTEMS TECHNOLOGY, PRETORIA (SOUTH AFRICA).
An analytical method to calculate the flow field about blunt bodies of revolution at incidence in supersonic free stream flow
[CSIR-NIAST-82/72] 04 p0479 N84-13156
Phase locked loop theory and application: A precise paper
[CSIR-NIAST-82/57] 04 p0524 N84-13444
The linear vortex distribution using the alternative approach
[NIAST-82/60] 07 p0945 N84-16133
Approximation of compressible fluid in fluid-structure interaction problems
[CSIR-R/NIAST-15] 11 p1651 N84-20778

NATIONAL INST. FOR METALLURGY, RANDBURG (SOUTH AFRICA).
The descaling of 3Cr12 steel
06 p0817 N84-15322
Surface chemistry in the flotation of minerals
06 p0817 N84-15323
Spectroscopic studies on surface reactions between minerals and reagents in flotation systems
06 p0817 N84-15324

NATIONAL INST. FOR OCCUPATIONAL SAFETY AND HEALTH, CINCINNATI, OHIO.
Registry of toxic effects of chemical substances. User's guide to the RTECS computer tape
[PB83-223172] 01 p0115 N84-10748

NATIONAL INST. FOR PERSONNEL RESEARCH, JOHANNESBURG (SOUTH AFRICA).
The programming and validation of the computerised version of the intermediate mental alertness test
[CSIR-PERS-303] 04 p0573 N84-13776
Women at work and stress
[R/PERS-626] 04 p0573 N84-13777

NATIONAL INST. FOR SCIENTIFIC AND TECHNICAL CREATION, BUCHAREST (ROMANIA).
The Levi problem for cohomology classes
22 p3634 N84-33032

NATIONAL INST. FOR TRANSPORT AND ROAD RESEARCH, PRETORIA (SOUTH AFRICA).
Hazardous location identification by computer
[CSIR-TR-RF/6/81] 04 p0578 N84-13814
The behavior of a slag base pavement structure at P39/1, Erasmia under heavy vehicle simulator loading
[RP/5/82] 11 p1639 N84-20716

NATIONAL INST. FOR WATER RESEARCH, PRETORIA (SOUTH AFRICA).
A laboratory manual for the determination of metals in water and wastewater by atomic absorption spectrophotometry
[CSIR-TECH-GUIDE-K63] 11 p1628 N84-20653

NATIONAL INST. OF MENTAL HEALTH, BETHESDA, MD.
Presynaptic elements involved in the maintenance of the neuromuscular junction 09 p1358 N84-18875
Bioassay, isolation and studies on the mechanism of action of neurite extension factor
09 p1359 N84-18881

NATIONAL INST. OF MENTAL HEALTH, ROCKVILLE, MD.
Neurophysiological approaches to higher brain functions
[PB84-175769] 17 p2746 N84-27434

NATIONAL INST. OF POLAR RESEARCH, TOKYO (JAPAN).
Meteorites News. Japanese collection of Antarctic meteorites, volume 1, number 1
10 p1596 N84-20461

NATIONAL INST. VOOR KERNFYSICA EN HOGE ENERGIEYSICA, AMSTERDAM (NETHERLANDS).
Activities in nuclear and high energy physics
08 p1231 N84-18043
Activities in nuclear and high energy physics
[B8467321] 20 p3299 N84-30949
Activities in nuclear and high energy physics
23 p3824 N84-34250

NATIONAL LIBRARY OF MEDICINE, BETHESDA, MD.
Permuted medical subject headings, 1984
[PB83-234781] 03 p0460 N84-13027
Medical subject headings, tree structures, 1984
[PB83-223164] 03 p0460 N84-13028
Medical Subject Headings, Annotated Alphabetic List, 1984
[PB83-223156] 03 p0460 N84-13029
Medical subject headings, tree annotations, 1984. Technical notes, Medlars indexing instructions
[PB84-120047] 09 p1405 N84-19181
Medlars indexing instructions, tumar key supplement, 1984 (Technical Notes)
[PB84-120039] 11 p1750 N84-21424
NLM (National Library of Medicine) Online Services Reference Manual: Supplement
[PB84-186808] 21 p3520 N84-32300
Notes for medical catalogers, 1983
[PB84-195874] 22 p3675 N84-33296

NATIONAL MARITIME INST., FELTHAM (ENGLAND).
An assessment of some methods for calculating wave loading
[NMI-R-162] 05 p0694 N84-14555
Wave climate synthesis using NMIMET: A trilogy of published papers
[NMI-R-167] 18 p2855 N84-28127
Assessment of a new global capability for wave climate synthesis 18 p2855 N84-28128
Ocean Wave Statistics: A new look
18 p2855 N84-28129
Wave climate synthesis worldwide
18 p2855 N84-28130

NATIONAL MARITIME INST., TEDDINGTON (ENGLAND).
Evaluation of aerodynamic admittance of a model bridge oscillating with vertical motion
[NMI-R-175] 18 p2851 N84-28104
The aerodynamic admittance of model bridges
[NMI-R-176] 18 p2851 N84-28105
Wave force investigations at the second Christchurch Bay Tower
[NMI-R177] 20 p3250 N84-30626

NATIONAL MATERIALS ADVISORY BOARD, WASHINGTON, D. C.
High-performance, low-energy-curing resins
[AD-A141524] 19 p2998 N84-29000

NATIONAL MECHANICAL ENGINEERING RESEARCH INST., PRETORIA (SOUTH AFRICA).
Hydraulic hoisting and backfilling
[CSIR-ME-452] 04 p0532 N84-13498
Instruction manual for the use of the CSIR triaxial rock stress measuring equipment
[CSIR-ME-1763] 04 p0538 N84-13535
Design, selection and simulation of air conditioning systems by computer. Part 3: Program data preparation and reference manual
[CSIR-ME-1465-PT-3] 10 p1471 N84-19604
The development of wrought heat-resisting alloys for gas turbines
[CSIR-ME-1778] 11 p1632 N84-20669
Research on alternative fuels
[CSIR-RME-465] 11 p1639 N84-20711
An accurate and economical plate-bending hybrid finite element 11 p1712 N84-21163
Work capsule for lightweight hydrostatic machines
[CSIR-RR-581] 13 p1988 N84-22905

NATIONAL OBSERVATORY, RIO DE JANEIRO (BRAZIL).
Lagrangian singularities: Applications
19 p3118 N84-29812

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, ANN ARBOR, MICH.
Great lakes monthly hydrologic data
[PB84-114545] 09 p1339 N84-18745
Investigation of the currents and density structures of Lake Erie
[PB84-140334] 11 p1672 N84-20911

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, BOULDER, COLO.
Magnetohydrodynamic modeling of coronal structure and expansion 03 p0468 N84-13081
Glaciological data: Permafrost. A bibliography, 1978 - 1982
[PB83-249730] 04 p0565 N84-13724
Acoustic-gravity wave dispersion relations in a baroclinic atmosphere
[PB83-248690] 04 p0565 N84-13726
A survey of underwater-acoustic ray tracing techniques
[PB83-250522] 04 p0596 N84-13931
Aircraft hazard assessment from a clear-air radar and meteorological tower study of gravity wave events
[PB83-257139] 05 p0710 N84-14650
Light scattering condensation nuclei, and air mass trajectories at Whiteface Mountain: Summer 1982
[PB84-104363] 08 p1188 N84-17742
NIMBUS-7 SBUV (Solar Backscatter Ultraviolet) observations of solar UV spectal irradiance variations caused by solar rotation and active-region evolution for the period November 7, 1978 - October 26, 1979
[PB84-108166] 08 p1188 N84-17743
Homogeneous magnitude system of the Eurasian continent: S and L waves
[PB84-101161] 09 p1188 N84-17744
Summary of earthquake intensity file: A computerized file of the effects of earthquakes in the United States
[PB84-101443] 08 p1189 N84-17745
The GOES X-ray imager feasibility demonstration
[PB84-111970] 09 p1319 N84-18614
Operational uses for a solar soft X-ray imaging telescope
[PB84-137538] 11 p1756 N84-21466
BETA: A program for calculating and archiving backscattering profiles taken with the NOAA National Oceanic and Atmospheric Administration) coherent lidar system
[PB84-150168] 14 p2177 N84-24040
Numerical modeling of ionospheric parameters from global IMS (International Magnetospheric Study) magnetometer data for the CDAW-6 intervals
[PB84-151307] 14 p2177 N84-24041
A preliminary study of the feasibility of detecting long-term trends in atmospheric humidity
[DE84-006417] 14 p2180 N84-24055
Profs' Doppler radar data processing system. Part 1: Design and implementation with application to NEXRAD algorithms
[PB84-165224] 14 p2182 N84-24073
Preliminary report of HF (High-Frequency) radar measurements of surface currents East of the Strait of Gilbraltar near Marbella, Spain: October 7-22, 1982, part 1
[PB84-154244] 14 p2183 N84-24083

Jet stream related observations by MST radars
17 p2682 N84-27078
On the morphology of the scattering medium as seen by MST/ST radars 17 p2684 N84-27086
Range gate dependence of specular echoes
17 p2684 N84-27088
Is VHF Fresnel reflectivity due to low frequency buoyancy waves? 17 p2684 N84-27089
The effects of pulse rate, power, width and coding on signal detectability 17 p2685 N84-27093
Discrimination against interfering signals at the Poker Flat MST radar 17 p2685 N84-27097
Solar control of winter mesospheric echo occurrence at Poker Flat, Alaska 17 p2686 N84-27102
Estimating unbiased horizontal velocity components from ST/MST radar measurements: A case study
17 p2687 N84-27110
On the measurement of vertical velocity by MST radar
17 p2687 N84-27111
Accuracy of vertical velocity determination
17 p2687 N84-27112
Techniques for studying gravity waves and turbulence: Horizontal, vertical and temporal resolution needed
17 p2688 N84-27116
Existence of a persistent background of turbulence
17 p2688 N84-27118
Techniques for studying gravity waves and turbulence: Vertical wind speed power spectra from the troposphere and stratosphere obtained under light wind conditions
17 p2688 N84-27120
Characteristics of Sunset radar
17 p2690 N84-27131
Capabilities and limitations of existing MST radars: Colorado wind profilers 17 p2690 N84-27132
Capabilities and limitations of existing MST radars: Poker Flat 17 p2690 N84-27133
Design considerations for high-power VHF radar transceivers: Distributed versus single large transmitter
17 p2692 N84-27144
Design considerations for high-power VHF radar transceivers: The Poker Flat MST radar phase control system 17 p2692 N84-27148
Design considerations for high-power VHF radar transceivers: Phase matching long coaxial cables using a cable radar 17 p2693 N84-27149
Design considerations for high-power VHF radar transceivers: T/R switch design
17 p2693 N84-27151
Full versus limited versus no steerability
17 p2693 N84-27155
Review of specific antenna configurations: An estimate of cost and performance versus frequency for a simple (10 Lambda)-2 clear-air radar antenna array
17 p2694 N84-27158
Data analysis techniques: Spectral processing
17 p2695 N84-27168
Signal processing at the Poker Flat MST radar
17 p2695 N84-27169
Parameterization of spectrum
17 p2696 N84-27172
SAR imagery of ocean-wave swell traveling in an arbitrary direction 17 p2714 N84-27278
Comparison of airborne turbulence-indicating doppler radar systems with ground-based doppler radar systems
[AD-A141474] 19 p3005 N84-29043
Program for Regional Observing and Forecasting Services (PROFS)
[PB84-179928] 20 p3248 N84-30618
Analysis of some cloud and frontal events recorded during the Boulder Upslope Cloud Observation Experiment (BUCOE) of 1982
[PB84-179662] 20 p3249 N84-30622
Variability of the convection field pattern in South Florida and its relationship to the synoptic flow
[PB84-177393] 20 p3249 N84-30623
Preliminary report of HF radar measurements of surface currents east of the Strait of Gibraltar near Marbella, Spain, 7-22 October 1982, part 2
[PB84-183664] 20 p3251 N84-30637
The NOAA-ERL-ARL solar UV radiation and climate research project program description
[PB84-183292] 20 p3319 N84-31070
Geophysical monitoring for climatic change Number 11,
[PB84-181841] 21 p3449 N84-31883
Environmental Research Laboratories publication abstracts, FY 1983
[PB84-189323] 21 p3450 N84-31892
High frequency radar software reference manual for product one
[PB84-194885] 22 p3578 N84-32685
Frequency correlation of HF skywave ground backscatter Doppler spectra
[PB84-204353] 22 p3578 N84-32668
Statistics at HF skywave ground backscatter Doppler spectra
[PB84-204973] 22 p3578 N84-32669
Combined ground-based and satellite remote sensing of temperature 23 p3774 N84-33926
Simultaneous remote sensing of atmospheric turbulence by radar optical means: A comparison
23 p3775 N84-33932
Radar cross section measurements of wingtip vortices
23 p3775 N84-33934

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, COLUMBIA, MO.

Argentina wheat yield model
[E84-10101] 12 p1828 N84-21919
Argentina soybean yield model
[E84-10102] 12 p1828 N84-21920
Brazil wheat yield covariance model
[E84-10103] 12 p1829 N84-21921
Brazil soybean yield covariance model
[E84-10104] 12 p1829 N84-21922
Argentina corn yield model
[E84-10105] 12 p1829 N84-21923

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, MIAMI, FLA.

Empirical study of HF air to ground communications at the Research Facilities Center based on radio logs, 1973 - 1982
[PB83-222588] 01 p0068 N84-10447
Research facilities report, fiscal year 1982
[PB83-224857] 01 p0110 N84-10713
Omega Dropwindsonde processing
[PB83-248773] 03 p0412 N84-12700
Calibration of meteorological measurements made by NOAA (National Oceanic and Atmospheric Administration) WP3D aircraft, 1983
[PB84-127463] 10 p1541 N84-20099
Fiscal Year 1983 programs, fiscal year 1984 projections
[PB84-158146] 14 p2181 N84-24066
Current velocity profiles in the Straits of Florida from the Pegagus current profiler: Subtropical Atlantic Climate Study 1982
[PB84-154335] 14 p2183 N84-24084
Acoustic ray-path fluctuations induced by El Nino
[PB84-167709] 16 p2534 N84-26270
Study of NOAA (National Oceanic and Atmospheric Administration) WP-3D terminal navigation errors based on navigators logbooks: 1977-1983
[PB84-155738] 17 p2605 N84-26692

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, NORMAN, OKLA.

Real time divergence measurement from single Doppler radar
[AD-A140558] 17 p2653 N84-26966

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, PRINCETON, N.J.

Geophysical Fluid Dynamics Laboratory activities FY1982, plans-FY1983
[PB83-232827] 01 p0101 N84-10657
The FGGE level 3-B daily global analyses, part 1
[PB83-221051] 01 p0109 N84-10709
FGGE level 3-B daily global analyses. Part 2: (Mar. 1979 - May 1979)
[PB84-100270] 08 p1193 N84-17780
FGGE level 3-B daily global analyses, part 3
[PB84-135854] 10 p1541 N84-20101
Ocean modelling on the CYBER 205 at GFDL
10 p1559 N84-20212
Geophysical Fluid Dynamics Laboratory activities, FY83, plans FY84
[PB84-148790] 15 p2374 N84-25245

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, ROCKVILLE, MD.

Branching Atmospheric Trajectory (BAT) model
[PB83-233023] 01 p0110 N84-10717
User requirements and a high level design of the hydrographic software/data processing subsystem of an airborne laser hydrography system
[PB83-228569] 01 p0127 N84-10830
Tide tables 1984, high and low water predictions, central and western Pacific Ocean and Indian Ocean
[PB83-255166] 05 p0711 N84-14660
Preparing meteorological data for use in routine dispersion calculations: Workgroup summary
[PB84-119890] 08 p1193 N84-17774
NOAA program for data analysis for the first detection of CO/sub 2 induced-climate change
[DE84-006509] 12 p1861 N84-22125
National severe local storms operations plan
[PB84-155241] 14 p2180 N84-24061
Report to the Congress on ocean pollution
[PB84-166768] 15 p2374 N84-25246
Selection of a general purpose language and a real-time language suitable for shipboard data system 3
[PB84-180892] 20 p3275 N84-30795
Federal plan for meteorological services and supporting research, fiscal year 1985
[PB84-182732] 21 p3449 N84-31884
National Hurricane Operations Plan
[PB84-198837] 21 p3450 N84-31888
Proceedings of the 8th Annual Climate Diagnostics Workshop
[PB84-192418] 21 p3450 N84-31893

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, SEATTLE, WASH.

A satellite study of ocean internal waves
[PB83-248708] 04 p0556 N84-13661
Winter currents on the eastern Bering Sea shelf
[PB83-248823] 04 p0570 N84-13753
Vertical sections of oxygen, phosphate, silicate, nitrate and nitrite from the NORPAX Shuttle Experiment
[PB84-138759] 11 p1692 N84-21036
The variability of the surface wind field in the equatorial Pacific Ocean: Criteria for satellite measurements
17 p2717 N84-27296
Proceedings of Tsunami Symposium
[PB84-183482] 20 p3252 N84-30638
METLIB-2: A program library for calculating and plotting atmospheric and oceanic fields
[PB84-205434] 21 p3450 N84-31890
Surface winds in some Alaskan passes
[PB84-194745] 21 p3450 N84-31895
Bering Air-Sea-Ice Study (BASICS), February and March, 1981
[PB84-196161] 22 p3615 N84-32903
Topographic effects of the Alaskan stream on shelf currents
[PB84-205137] 22 p3628 N84-32988

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, SUITLAND, MD.

Using the NOAA-7 AVHRR data to monitor El Chichon aerosol evolution and subsequent sea surface temperatures anomalies 10 p1539 N84-20083
NOAA satellite-derived operational sea surface temperature products 12 p1835 N84-21965

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, WASHINGTON, D. C.

Mariners Weather Log, Spring 1983, volume 27, number 2
[PB83-220491] 01 p0109 N84-10708
Satellite activities of NOAA (National Environmental Satellite Data and Information Service) 1982
[PB83-252510] 04 p0568 N84-13747
Economic benefits of operational environmental satellites
[PB83-252932] 04 p0569 N84-13748
Mariners weather log, volume 27, number 3, summer 1983
[PB84-108356] 08 p1192 N84-17771
LANDSAT-4 commercialization update
10 p1523 N84-19974
NOAA position for TM data distribution
10 p1524 N84-19981
Gulf stream system landward surface edge statistics
[PB84-104314] 10 p1543 N84-20112
North American climatic data catalog, part 1
[PB84-150366] 12 p1863 N84-22136
Nimbus-7 ERB (Earth Radiation Budget) Sub-Target Radiance Tape (STRT) data base
[PB84-149921] 14 p2177 N84-24039
Environmental satellite imagery, October 1983
[PB84-160001] 14 p2181 N84-24068
Federal plans for cooperative backup among operational processing centers
[PB84-174796] 16 p2531 N84-26253
The NESDIS-SEL Lear aircraft instruments and data recording system
[NOAA-TR-NESDIS-9] 17 p2607 N84-26698
The impact of satellite temperature soundings on the forecasts of a small national meteorological service
17 p2717 N84-27295
Recent advances in multispectral sensing of ocean surface temperature from space
17 p2717 N84-27297
LANDSAT-4 Thematic Mapper calibration and atmospheric correction 20 p3209 N84-30384
The advantages of sounding with the smaller detectors of the VISSR atmospheric sounder
[NOAA-TM-NESDIS-6] 20 p3240 N84-30571
International Meteorological Satellite System: Issues and options
[PB84-199603] 21 p3450 N84-31889
Satellite activities of NOAA, 1983
22 p3540 N84-32408
Mariners Weather Log, Volume 28, Number 2, April-May-June 1984
[PB84-204569] 22 p3626 N84-32978
Tropical cyclone intensity analysis using satellite data
[NOAA-TR-NESDIS-11] 23 p3800 N84-34096

NATIONAL OCEANOGRAPHIC DATA CENTER, WASHINGTON, D. C.
NODC (National Oceanographic Data Center) inventory of XBT data along transects in U.S. Atlantic and Gulf coastal waters from NMFS/MARD ship of opportunity program for 1981
[PB84-122662] 08 p1197 N84-17802
Mariners Weather Log, volume 27, number 2, Fall 1983
[PB84-133115] 10 p1541 N84-20100
Key to oceanographic records documentation
[PB84-166360] 21 p3519 N84-32299
NATIONAL OPINION RESEARCH CENTER, CHICAGO, ILL.
A response model for multiple choice items
[AD-A139396] 14 p2214 N84-24297
Estimation of latent group effects
[AD-A139299] 14 p2218 N84-24310
NATIONAL PHYSICAL LAB., TEDDINGTON (ENGLAND).
An interactive computer program for analysis of ultrasonic modulus data on anistropic materials
[NPL-DMA(A)-68] 03 p0388 N84-12526
Ada-Europe guidelines for the portability of Ada programs, second edition
[NPL-DITC-27/83] 03 p0419 N84-12739
Guidelines for the design of large modular scientific libraries in Ada
[NPL-DITC-28/83] 03 p0420 N84-12740
Fundamental approach to design and prediction of performance of forming tools 09 p1294 N84-18453
A theoretical analysis of the influence of crack dimensions and geometry on mass transport in corrosion fatigue cracks
[NPL-DMA(A)-69] 12 p1825 N84-21897
Application of the PAFEC 75 software package
[NPL-QU-66] 12 p1878 N84-22240
Calculations of repeatability
[NPL-RS(EXT)-69] 12 p1886 N84-22347
Some aspects of creep in nickel-base super alloys
[NPL-DMA(A)-72] 15 p2294 N84-24769
Numerical solution of rectangular anisotropic plates in flexure with free edges
[NPL-DMA(A)-71] 15 p2346 N84-25075
Design calculations associated with the laying of submarine communication cables
[NPL-DMA(A)-76] 15 p2346 N84-25077
A sixth annotated bibliography of recent publications on data security and cryptography
[NPL-DITC-35/83] 15 p2385 N84-25305
A critical assessment of thermodynamic data for the Ca-Mg system
[NPL-DMA(A)-73] 15 p2415 N84-25500
Activities report of the Division of Quantum Metrology
[NPL-QU-AR-82] 16 p2494 N84-26002
The density of liquid slags containing iron oxide
[NPL-DMA(A)-75] 17 p2622 N84-26782
Tutorial material on the real data types in Ada
[NPL-DITC-34/83] 17 p2751 N84-27458
The Demos multi-computer project: Hardware aspects
[NPL-DITC-36/84] 18 p2917 N84-28493
Converting to Ada packages
[NPL-DITC-39/84] 18 p2919 N84-28512
An optical technique for assessing the long-term accuracy of lateral extensometers
[NPL-DMA(A)-78] 19 p3026 N84-29190
Creep damage mechanics and micromechanisms
[NPL-DMA(A)-77] 19 p3034 N84-29243
Elastic buffers for digital rings
[NPL-DITC-38/84] 20 p3172 N84-30143
Eyebolts for lift suspension
[NPL-DMA(A)-70] 20 p3195 N84-30292
Potential of metal-matrix composites as superalloy substitutes 23 p3703 N84-33474
Trace elements in superalloys and the implications for recycling 23 p3705 N84-33484
NATIONAL PHYSICAL RESEARCH LAB., PRETORIA (SOUTH AFRICA).
Spectrographic investigation of gold by Grimm lamp
[CSIR-SR-283] 04 p0493 N84-13233
Proceedings of Symposium on Surface Science and its Industrial Implications
[ISBN-0-7988-2417-4] 06 p0814 N84-15298
A new non-destructive and standardless method for the thickness determination of thin films by XRF measurement 06 p0815 N84-15308
Use of scanning electron microscopy in studying surface reactions of metals with hydrogen 06 p0816 N84-15318
NATIONAL PRODUCTIVITY INST., PRETORIA (SOUTH AFRICA).
Productivity and the forging industry 09 p1293 N84-18448
NATIONAL RADIO ASTRONOMY OBSERVATORY, CHARLOTTESVILLE, VA.
Crystal gazing. Part 2: Implications of advanced in digital data storage technology 18 p2842 N84-28049
NATIONAL RESEARCH COUNCIL OF CANADA, OTTAWA (ONTARIO).
Effective-width model for evacuation flow 04 p0512 N84-13362
Project Waterhole III 05 p0640 N84-14210
Sequential barium releases to study tangential versus rotational discontinuities in auroral arcs 05 p0640 N84-14215
The ISPM cosmic-ray and solar-particle investigation 09 p1262 N84-18236
The relationship between electrical conductivity and temperature of aviation turbine fuels containing static dissipator additives
[AD-A135751] 09 p1290 N84-18421
Equations of motion for rigid multibody systems
[AD-A137234] 10 p1569 N84-20281
Development of low temperature cure epoxy paint for offshore steel structures in cold areas
[NRC/CNR-TT-2078] 11 p1636 N84-20694
The iNet Gateway trial 11 p1750 N84-21427
Scientific numeric databases 11 p1751 N84-21430
The Laplacian resonance and tidal dissipation 13 p2073 N84-23434
Aviation fuel specification requirements: Their significance and future trends 15 p2289 N84-24733
Performance derivation of turbojets and turbofans from tests in sea-level test cells 16 p2453 N84-25728
Degradation of the bird impact resistance of polycarbonate
[AD-P003193] 17 p2591 N84-26606
Comparison of bullet resistance of new and aged polycarbonate
[AD-P003198] 17 p2592 N84-26611
NATIONAL RESEARCH INST., BANKURA (INDIA).
On the face-shear vibrations of contoured crystal plates 10 p1511 N84-19891
NATIONAL RESEARCH INST. FOR MATHEMATICAL SCIENCES, PRETORIA (SOUTH AFRICA).
Interacting weights in multiple attribute decision making
[CSIR-TWISK-270] 04 p0586 N84-13874
The linear hierarchical model and its application in the econometric analysis
[CSIR-TWISK-274] 04 p0587 N84-13875
Generalized composite integration rules in the presence of a singularity
[CSIR-TWISK-272] 04 p0587 N84-13876
Estimation of the Manova eigenvalues under the random effects model
[CSIR-TWISK-271] 04 p0587 N84-13877
A Numerov-Galerkin technique applied to a finite element shallow-water equations model with enforced conservation of integral invariants and selective lumping
[CSIR-TWISK-276] 04 p0587 N84-13878
Selecting a subset of regression variables so as to maximize the prediction accuracy at a specified point
[CSIR-TWISK-275] 04 p0591 N84-13903
A method for stratigraphic correlation of several boreholes
[CSIR-TWISK-281] 07 p1032 N84-16692
Strategies using an observer for steering a random motion of a point in a multitarget environment
[CSIR-TWISK-265] 07 p1049 N84-16794
Performance criteria for comparing constrained nonlinear programming codes
[CSIR-TWISK-279] 07 p1053 N84-16822
The automatic transmission optimal control problem
[CSIR-TWISK-286] 07 p1057 N84-16844
Aids for decision making with conflicting objectives
[CSIR-SWISK-32] 07 p1059 N84-16861
Comment on the energy variation method
[CSIR-TWISK-293] 07 p1059 N84-16862
Splines and a three-body separable expansion for scattering problems
[CSIR-TWISK-291] 07 p1059 N84-16863
A convex hull algorithm for planar simple polygons
[CSIR-TWISK-290] 07 p1059 N84-16864
Rates of convergence of Gaussian quadrature for singular integrands
[CSIR-TWISK-288] 07 p1059 N84-16865
On conditions for success of Sklansky's convex hull algorithm
[CSIR-TWISK-282] 07 p1059 N84-16866
On the convergence of Galerkin approximation schemes for second-order hyperbolic equations in energy and negative norms
[CSIR-TWISK-280] 07 p1059 N84-16867
Numerical evaluation of finite Fourier integrals
[CSIR-TWISK-273] 07 p1060 N84-16868
Dynamic meteorology; control theory and optimization. Research programme, 1983-1984
[CSIR-SWISK-31] 07 p1094 N84-17115
Methods for describing the coexistence of competing degrees of freedom in a many body system
[CSIR-TWISK-298] 11 p1712 N84-21159
Multi-Bayesian estimation theory
[CSIR-TWISK-296] 11 p1712 N84-21160
Generalized Dinkelbach-type algorithms
[CSIR-TWISK-295] 11 p1712 N84-21161
On an algorithm for external triangulation of ELV polygons
[CSIR-TWISK-287] 11 p1712 N84-21162
The numerical solution of three stochastic differential games
[CSIR-TWISK-292] 11 p1718 N84-21205
Variable selection in heteroscedastic discriminant analysis
[CSIR-TWISK-283] 13 p2031 N84-23171
Interactive decision analysis and modelling
[CSIR-TWISK-294] 15 p2400 N84-25403
NATIONAL RESEARCH INST. FOR OCEANOLOGY, STELLENBOSCH (SOUTH AFRICA).
The nature and analysis of random waves in shallow water. Part 1: Text and figures
[CSIR-RR-388/1-PT-1] 04 p0532 N84-13496
The nature and analysis of random waves in shallow water. Part 2: Appendices
[CSIR-RR-388/2-PT-2] 04 p0532 N84-13497
Investigation of the generation of regular waves by a sliding valve pneumatic wave generator
[CSIF-RR-553] 04 p0543 N84-13579
NRIO microcomputer system
[CSIR-T/SEA-8134] 04 p0577 N84-13805
An interdisciplinary oceanographic database
[CSIR-T/SEA-8207] 04 p0616 N84-14064
NATIONAL SCIENCE COUNCIL, TAIPEI (TAIWAN).
Scientific research abstracts in Republic of China, 1983 24 p3955 N84-35038
Remote sensing of coastal environment: The estuarine processes of Ta-Tu River 24 p3955 N84-35039
The geologic study of Taiwan area following up the acquisition of Taiwan SLAR imagery 24 p3957 N84-35051
An alternative mathematical approach to movement as complex human behavior 24 p3957 N84-35054
The research and fabrication of electronic materials and the establishment of characterization center of electronic materials 24 p3958 N84-35063
NATIONAL SCIENCE FOUNDATION, WASHINGTON, D.C.
Papers for and a summary of a Workshop on The Role of Basic Research in Science and Technology: Case Studies in Energy R and D (Research and Development)
[PB83-213637] 01 p0159 N84-11052
Academic science/engineering: R and D funds, fiscal year 1981(detailed statistical tables)
[PB83-228213] 01 p0160 N84-11057
International Conference on Vibrations at Surfaces (3rd)
[AD-A131794] 03 p0433 N84-12834
Report of the Information Technology Workshop
[PB84-163203] 14 p2248 N84-24500
The process of technological innovation: Reviewing the literature 16 p2566 N84-26466
Reactive resonance and angular distributions in the rotating linear model
[DE84-011354] 20 p3295 N84-30919
Federal funds for research and development, fiscal years 1981, 1982 and 1983, volume 31
[PB84-189596] 20 p3314 N84-31045
Federal funds for research and development, fiscal years 1982, 1983 and 1984. Volume 32: Detailed statistical tables
[PB84-189604] 20 p3314 N84-31046
National Science Foundation, volume 1
[PB84-193234] 20 p3316 N84-31061
Guide to programs, fiscal year 1984: Guide describing National Science Foundation programs and activities
[PB84-193226] 21 p3516 N84-32270
Report of the Information Technology Workshop
[AD-A144212] 24 p3968 N84-35126
NATIONAL SEVERE STORMS FORECAST CENTER, KANSAS CITY, MO.
Development of the Centralized Storm Information System (CSIS) for use in severe weather prediction 24 p3932 N84-34890
NSSFC: VAS assessment activities 24 p3932 N84-34891
NATIONAL SEVERE STORMS LAB., NORMAN, OKLA.
Single Doppler velocity signatures: An Atlas of patterns in clean air/widespread precipitation and convective storms
[PB84-155779] 14 p2181 N84-24063

Fresnel zone considerations for reflection and scatter from refractive index irregularities
17 p2684 N84-27091
An evaluation of the accuracy of some radar wind profiling techniques 17 p2687 N84-27109
Investigation of the detectability and lifetime of gust fronts and other weather hazards to aircraft
[AD-A141552] 19 p3058 N84-29404
Severe storm electricity 24 p3927 N84-34860

NATIONAL SPACE DEVELOPMENT AGENCY, TOKYO (JAPAN).
Evaluation of modal testing techniques for spacecraft structures 10 p1513 N84-19906
Operational status of the LANDSAT-5 ground station
10 p1523 N84-19976
Description and status report on TM processing system 10 p1523 N84-19978
An R and D model of a synthetic aperture radar antenna 23 p3777 N84-33949

NATIONAL TAIWAN UNIV., TAIPEI.
Preliminary study of LANDSAT imageries of Taiwan and its surroundings 24 p3956 N84-35050
Application of compartmentalization/air lock of simulated pressurized aircraft and tolerance of lung to rapid decompression in different laboratory animals
24 p3957 N84-35053
Analysis of fatigue crack propagation of structural steel members subjected to variable amplitude fatigue stress
24 p3957 N84-35055
Effect of stacking sequence on fatigue life of composite materials 24 p3958 N84-35058
Design and implementation of a reentrant page editing processor 24 p3959 N84-35066

NATIONAL TECHNICAL INFORMATION SERVICE, SPRINGFIELD, VA.
Corporate Author Authority List, 1983
[PB83-156034] 02 p0302 N84-11980
Directory of Federal technology resources, 1984
[PB84-100015] 19 p3115 N84-29793
Directory of computerized data files, 1984
[PB84-160126] 21 p3520 N84-32303

NATIONAL TECHNICAL UNIV., ATHENS (GREECE).
Boundary layer development on rotating bodies of revolution 07 p0957 N84-16204
Urban millimeter wave propagation studies
[AD-A134465] 07 p0993 N84-16439

NATIONAL TELECOMMUNICATIONS AND INFORMATION ADMINISTRATION, ANNAPOLIS, MD.
FM spectral modeling and FDM/FM simulation programs
[PB84-118934] 08 p1147 N84-17469
Spectrum resource assessment in the 5650-5925 MHz
[PB84-127430] 09 p1305 N84-18530
Assessment of satellite power flux-density limits in the 2025-2300 MHz frequency range, part 1
[PB84-129402] 09 p1305 N84-18532
Spectrum resource assessment in the 162-174 MHz frequency band
[PB84-210244] 22 p3578 N84-32667

NATIONAL TELECOMMUNICATIONS AND INFORMATION ADMINISTRATION, BOULDER, COLO.
Estimates of millimeter wave attenuation for 18 United States cities
[PB83-240630] 02 p0211 N84-11381
Digital microwave transmission tests at the Pacific Missile Test Center, Pt. Mugu, California
[PB83-251454] 05 p0671 N84-14412
Attenuation of millimeter waves on Earth-space paths by rain clouds
[PB84-115120] 08 p1148 N84-17471
A diagnostic probe to investigate propagation at millimeter wavelengths
[PB84-104223] 08 p1148 N84-17473
Method for counting errors, deletions, and additions when both transmitted and received data are known
[PB84-127620] 09 p1305 N84-18531
Computation of linear communication antennas
[PB84-143502] 11 p1645 N84-20755
Millimeter wave attenuation in moist air: Laboratory measurements and analysis
[AD-A139502] 14 p2140 N84-23832
Primer on Integrated Services Digital Networks (ISDN): Implications for future global communications
[PB84-152586] 14 p2141 N84-23839
An atmospheric millimeter wave propagation model
[AD-A139154] 14 p2176 N84-24033
Prediction of multipath fading on terrestrial microwave links at frequencies of 11 GHz and greater
15 p2324 N84-24953
Locally optimum and suboptimum detector performance in a non-Gaussian interference environment
[PB84-184738] 20 p3176 N84-30173

NATIONAL TELECOMMUNICATIONS AND INFORMATION ADMINISTRATION, WASHINGTON, D.C.
Interoperability of the European Defense Communications System with TRI-service tactical communications
[PB83-240614] 02 p0211 N84-11383
International Telecommunication Standards: Issues and Implications for the '80's
[PB83-241471] 03 p0363 N84-12366
Air-to-ground HF (High Frequency) propagation prediction model for fast multicircuit computation
[PB84-145961] 12 p1810 N84-21802
Americal National Standard X3.102 user reference manual
[PB84-155571] 17 p2654 N84-26977
Effect of bandwidth and interference rejection on the spectrum efficiency of land mobile radio systems
[PB84-158369] 17 p2654 N84-26978
Policy implications of information technology
[PB84-183219] 20 p3316 N84-31060

NATIONAL TRANSPORTATION SAFETY BOARD, WASHINGTON, D. C.
Aircraft accident report: Midair collision of North American Rockwell Aero Commander model 560E, N3827C and Cessna 182Q, N96402, Livingston, New Jersey, November 20, 1982
[PB83-910403] 01 p0006 N84-10036
Safety report: General aviation crashworthiness project, phase 1
[PB83-917004] 03 p0328 N84-12142
Aircraft accident report - United Airlines Flight 2885, N8053U, McDonnell Douglas DC-8-54F, Detroit, Michigan, January 11, 1983
[PB83-910407] 04 p0481 N84-13168
Aircraft accident report - A. E. Staley Manufacturing Company, Inc., Canadair Challenger CL-600, N605C, Hailey, Idaho, January 3, 1983
[PB83-910405] 04 p0482 N84-13169
Aircraft accident report: Eastern Air Lines, Inc., Boeing 727-225, N8838E, Raleigh, North Carolina, November 12, 1975
[PB83-910406] 11 p1603 N84-20500
Aircraft accident report. Western Helicopters, Inc., Bell-UH-1B, N87701, Valencia, California July 23, 1982
[PB84-910402] 11 p1603 N84-20502
Aircraft accident report: Sierra Pacific Airlines, DHC-6-300, N361V, Hailey, Idaho, February 15, 1983
[PB84-910403] 12 p1767 N84-21525
Aircraft accident report. Eastern Air Lines, Incorporated, Lockheed L-1011, N334EA, Miami International Airport, Miami, Florida, May 5, 1983
[NTSB-AAR-84-04] 14 p2103 N84-23613
Annual review of aircraft accident data: US general aviation, 1980
[PB84-182914] 16 p2443 N84-25672
Safety recommendations A-84-1 through -3
16 p2443 N84-25673
Safety recommendation A-84-7
16 p2443 N84-25674
Safety recommendations A-84-8 and -9, and A-84-17 through -20 16 p2444 N84-25675
Safety recommendation(s) A-84-10 and -11
16 p2444 N84-25676
Safety recommendations A-84-12 and -13
16 p2444 N84-25677
Safety recommendations A-84-14 and -15
16 p2444 N84-25678
Safety recommendation(s) A-84-16
16 p2444 N84-25679
Safety recommendation: Cessna Model 402C airplane, September 5, 1983, Tampa International Airport, Tampa, Florida 16 p2444 N84-25680
Statistical review of alcohol-involved aviation accidents
[NTSB-SS-84-03] 16 p2445 N84-25681
Upgraded aircraft accident recorder standards
17 p2586 N84-26574
McCauley Aviation, Inc. Mitsubishi MU-2B, N72B near Jeffersonville, Georgia, March 24, 1983 aircraft accident report
[PB84-910401] 18 p2789 N84-27702
Aircraft accident report: Las Vegas Airlines, Flight 88, Piper PA-31-350, Grand Canyon, Arizona, August 17, 1983
[PB84-910405] 19 p2960 N84-28760
Safety study: Airport certification and operations
[PB84-917002] 19 p2960 N84-28761
Aircraft accident report. Midair collision: McDonnell-Douglas F-4C Beech D-55 Baron, Cherry Point, North Carolina, 9 January 1983
[PB84-910407] 22 p3533 N84-32368

NATIONAL TSING HUA UNIV., HSINCHU (TAIWAN).
Stress analysis of foam sandwich semi-monocoque structures 24 p3958 N84-35061
Interfacial reactions of nickel and cobalt thin films on silicon 24 p3959 N84-35064
Large scale software development project on the design of a computer network system 24 p3959 N84-35065

NATIONAL WEATHER SERVICE, ANCHORAGE, ALASKA.
Climatological frequency distributions for Juneau, Alaska
[PB84-154814] 14 p2180 N84-24059

NATIONAL WEATHER SERVICE, FORT WORTH, TEX.
Evaluation of point precipitation probability forecasts using radar estimates of rainfall areal coverage
[PB84-121060] 09 p1350 N84-18821
Review of the use of the thermodynamic diagram and its functions (with the application towards AFOS)
[PB84-120815] 09 p1350 N84-18822

NATIONAL WEATHER SERVICE, GARDEN CITY, N.Y.
TERR, PERR, and GIGC: Three programs to compute verification statistics
[PB84-127521] 08 p1193 N84-17775
Decoder for manually digitized radar observations
[PB84-127539] 09 p1351 N84-18826
Slick and quick data entry for AFOS Era Verification (AEV) programs
[PB84-138726] 10 p1542 N84-20103
MDR-processing manually digitized obeervations
[PB84-161462] 14 p2181 N84-24070
RANP: Stability Analysis Plot Program
[PB84-161447] 14 p2181 N84-24071
Zones
[PB84-174325] 20 p3248 N84-30616
Automated analysis of upper air soundings to specify precipitation type
[PB84-174333] 20 p3248 N84-30617
Verification of asynchronous transmissions
[PB84-189885] 20 p3268 N84-30738
A computer calculation and display station for slosh hurricane surge model data
[PB84-198753] 21 p3449 N84-31887
WARN: A warning formatter
[PB84-204551] 21 p3467 N84-31985

NATIONAL WEATHER SERVICE, KANSAS CITY, MO.
Some basic elements of thunderstorm forecasting
[PB83-222604] 01 p0109 N84-10710
Multipurpose weather roundup program
[PB83-222612] 01 p0110 N84-10711
Assembly language graphics library (EGR1.LB) with Fortran interfacing
[PB83-239624] 03 p0422 N84-12757
Meteorological applications library (CRH.LB)
[PB84-122639] 08 p1193 N84-17776
Thermodynamics library for AFOS (Automation of Field Operations and Services) programmers (THERMO LB)
[PB84-122621] 08 p1215 N84-17925
Program ERROR
[PB84-128081] 09 p1370 N84-18948
Climatological Summary Programs F6 and CLIMAT
[PB84-185941] 20 p3246 N84-30603

NATIONAL WEATHER SERVICE, SALT LAKE CITY, UTAH.
Climate of Phoenix, Arizona (revised)
[PB83-246801] 03 p0412 N84-12699
Stratified maximum temperature relationships between sixteen zone stations in Arizona and respective key stations
[PB83-249904] 04 p0568 N84-13746

NATIONAL WEATHER SERVICE, SILVER SPRING, MD.
National Weather Service public forecast verification summary, April 1978 to March 1982
[PB83-232173] 01 p0110 N84-10716
Pertinent meteorological data for hurricane Allen of 1980
[PB84-104322] 08 p1192 N84-17766
Probable maximum precipitation and snowmelt criteria for southeast Alaska
[PB84-104371] 08 p1193 N84-17777
AFOS (Automation of Field Operations and Services)-era forecast verification
[PB84-129303] 10 p1541 N84-20098
Generalized Exponential Markov (GEM) updating procedure for AFOS (Automation of Field Operations and Services)
[PB84-154822] 14 p2180 N84-24060
Experimental wind forecasts from the local AFOSMOS (Automation of Field Operations and Services Model Output Statistics) program
[PB84-155514] 14 p2180 N84-24062
Public response to hurricane probability forecasts
[PB84-158658] 14 p2182 N84-24077
Index numbers for North and Central America, the Caribbean and U.S. stations in the Pacific: Fifth editions
[PB84-159599] 15 p2372 N84-25231
Selected worldwide marine weather broadcasts
[PB84-192855] 21 p3450 N84-31894

NATIONAL WEATHER SERVICE, WASHINGTON, D.C.
Operational numerical weather prediction on the CYBER 205 at the National Meteorological Center
10 p1559 N84-20211
NATURAL ENVIRONMENT RESEARCH COUNCIL, LONDON (ENGLAND).
The use of thematic mapper data for land cover discrimination: Preliminary results from the UK SATMaP programme
[E84-10038] 04 p0551 N84-13631
NATURAL ENVIRONMENT RESEARCH COUNCIL, SWINDON (ENGLAND).
The United Kingdom SATMaP program
[E84-10002] 04 p0551 N84-13627
The use of Thematic Mapper data for land cover discrimination: Preliminary results from the UK Satmap programme 20 p3216 N84-30428
NAVAL ACADEMY, ANNAPOLIS, MD.
Bending fatigue of a particulate SiC/Al 6061 metal matrix composite
[AD-A134108] 05 p0653 N84-14293
Dielectric relaxation in poly(ethylene oxide) complexed with alkali metal perchlorates
[AD-A134464] 07 p0970 N84-16284
Effect of pressure on conductivity in Poly(Ethylene oxide) complexed with alkali metal salts
[AD-A134562] 07 p0970 N84-16285
Ion implantation in polymers
[AD-A134482] 07 p0979 N84-16342
Stability enhancement of a flexible robot manipulator
[AD-A134185] 07 p1051 N84-16807
Optical excitation of trapping states in Fe doped InP
[AD-A134183] 07 p1080 N84-17019
Determination of individual temperatures and luminosities in eclipsing binary star systems
[AD-A134182] 08 p1244 N84-18133
Summary of research, academic departments, 1982-1983
[AD-A140059] 15 p2416 N84-25507
Electrical and differential scanning calorimetry studies of poly(ethylene oxide) complexed with alkaline earth thiocyanates
[AD-A143198] 22 p3546 N84-32449
Association and bound motion in alkali metal doped cadmium fluoride
[AD-A143200] 22 p3546 N84-32450
NMP, electrical relaxation, and high pressure electrical conductivity in ion conducting polymers
[AD-A143202] 22 p3546 N84-32451
Electrically conducting poly(vinyl acetate)
[AD-A143199] 22 p3559 N84-32538
Anomalous pressure dependence of dipolar relaxation times in rare earth doped lead fluoride
[AD-A143201] 22 p3662 N84-33215
Laser damage and effects bibliography. Part 1: Journal literature through 1982
[AD-A144313] 24 p3908 N84-34755
NAVAL AEROSPACE MEDICAL RESEARCH LAB., PENSACOLA, FLA.
Eruption of permanent dentition in rhesus monkeys exposed to ELF (Extremely low frequency) fields
[AD-A132065] 03 p0413 N84-12703
Effects of pulsed microwaves at 1.28 and 5.62 GHz on Rhesus monkeys (Macaca mulatta) performing an exercise task at three levels of work
[AD-A132057] 03 p0413 N84-12704
A restraint chair with rowing-like movement for exposing exercising nonhuman primates to microwave irradiation
[AD-A132047] 03 p0413 N84-12705
Effect of pulsed 5.62 GHz microwaves on squirrel monkeys (Saimiri sciureus) performing a repeated acquisition task
[AD-A132045] 03 p0413 N84-12706
Figural aftereffects: An explanation in terms of multiple mechanisms in the human visual system
[AD-A132066] 03 p0415 N84-12715
An age comparison of the vestibulo-ocular counterroll reflex
[AD-A132064] 03 p0415 N84-12716
Vestibulo-ocular reflex gain in man during active versus passive oscillation and the influence of voluntary gaze-control tasks
[AD-A132006] 03 p0415 N84-12717
The effects of character stroke width on the visibility of a head-coupled display
[AD-A132046] 04 p0484 N84-13183
Interactive voice technology: Variations in the vocal utterances of speakers performing a stress-inducing task
[AD-A135932] 09 p1302 N84-18514
Ultrastructural evaluation of the retina in retinopathy of prematurity and correlations with vitamin E therapy
[AD-A135929] 10 p1547 N84-20143
Distribution of visual characteristics of Naval aviation personnel
[AD-A135930] 10 p1547 N84-20144
Performance consistency on a perceptual-motor task as a correlate of achievement motivation
[AD-A135933] 10 p1552 N84-20170
The use of a small digital computer for on-line behavioral experiments
[AD-A138975] 13 p2025 N84-23126
Airsickness during Naval flight officer training: Fleet readiness squadrons
[AD-A138973] 14 p2185 N84-24095
The assessment of nonionizing radiation hazards
[AD-P003294] 18 p2908 N84-28444
NAVAL AIR DEVELOPMENT CENTER, WARMINSTER, PA.
High-voltage (270 V) dc power-generating system for fighter aircraft 01 p0010 N84-10057
Methods of improving the matrix dominated performance of composite structures: A technical review
[AD-A131257] 01 p0032 N84-10201
The VTX duty cycle developed from T-2C and TA-4J engine usage data
[AD-A133992] 05 p0631 N84-14149
Aircraft water-based solid film lubricants
[AD-A133732] 05 p0658 N84-14328
A servo controlled rapid response anti-g valve
[AD-A134042] 05 p0715 N84-14687
Avionics/crew station integration
06 p0769 N84-15042
Crew station evaluation in a dynamic flight simulation facility 06 p0774 N84-15069
Electrofluidic angular rate sensor for ejection seat thrust vector control
[AD-A133233] 06 p0784 N84-15137
The effect of superposing ripple loading of maneuver load cycles
[AD-A132653] 06 p0786 N84-15148
Theoretical predictions for VLF radio propagation
[AD-A133168] 06 p0823 N84-15364
Statistical review of counting accelerometer data for Navy and Marine fleet aircraft from 1 January 1962 to 31 December 1982
[AD-A134289] 07 p0951 N84-16169
The 2-dimensional inextensible lifting membrane airfoil, theory and experiment
[AD-A135251] 08 p1099 N84-17147
Aluminum-manganese plating from a molten salt bath
[AD-A135240] 08 p1131 N84-17356
Blood flow measurements under high-G conditions: Early prediction of Gz tolerance
[AD-A134653] 08 p1200 N84-17823
TIGS (table plot interactive graphics system)--an interactive graphical system for the creation and correction of tabular data sets
[AD-A135522] 08 p1212 N84-17906
Determination of the effect of strain rate on the mechanical properties of graphite-epoxy laminates
[AD-A136334] 09 p1276 N84-18328
USN/USAF Anti-G-Suit consolidation program
[AD-A136138] 09 p1364 N84-18908
Intercalation compounds: A new class of materials as advanced solid lubricants (wear life studies and differential thermal analysis)
[AD-A137424] 10 p1466 N84-19576
Development of a pressurized anti-exposure barrier system
[AD-A137130] 10 p1553 N84-20178
Solar-blind Raman lidar, phase 2
[AD-A137604] 11 p1732 N84-21295
Cleaning compound efficiency; test method for aircraft surface cleaners
[AD-A138515] 12 p1764 N84-21504
A Generalized Escape System Simulation (GESS) computer program: GESS user's guide, version 2, volume 1
[AD-A138844] 13 p1928 N84-22545
The curing of a bisphenol A type epoxy resin with 1,8 Diamino-P-Menthane
[AD-A138977] 13 p1964 N84-22761
Corrosion and load transfer effects on fatigue of mechanically fastened joints. Fatigue of zero load transfer specimen
[AD-A139042] 13 p2001 N84-22985
Factors affecting human tolerance to sustained acceleration
[AD-A138520] 13 p2021 N84-23101
Physiological acceptability tests of the modified SJU-5/A ejection seat for the F-18 aircraft
[AD-A139416] 14 p2103 N84-23614
Passive Arm Restraint Curtain (PARC) for Navy aircraft ejection seats
[AD-A139435] 14 p2103 N84-23615
Soliton propagation in one-dimensional organic conductors
[AD-A139386] 14 p2242 N84-24463
Low velocity, transverse normal impact of a clamped plate 15 p2310 N84-24860
Fuel fire tests of the helicopter crewman jacket
[AD-A140037] 15 p2385 N84-25302
Fuel fire tests of polytetra-fluoroethylene anti-exposure suits
[AD-A140038] 15 p2385 N84-25303
Current procurement specification design requirements for US Navy aircraft 16 p2434 N84-25615
Methodology for assessment of corrosion costs
16 p2435 N84-25623
Helicopter Pilot/Copilot survival system
[AD-A140358] 16 p2445 N84-25682
Development of lateral-directional equivalent system models for selected U.S. Navy tactical aircraft
[AD-A141672] 19 p2968 N84-28810
Causes and prevention of structural materials failures in naval environments
[AD-A141560] 19 p2994 N84-28972
Natural weathering of selected organic matrix composites
[AD-A144091] 23 p3711 N84-33527
NAVAL AIR ENGINEERING CENTER, LAKEHURST, N.J.
Prediction of hydraulic pump failures through wear debris analysis
[AD-A131386] 02 p0229 N84-11503
Capacity selector valve electronics enclosure assembly controller card assembly test specifications: Revision
[AD-A144349] 24 p3898 N84-34682
NAVAL AIR REWORK FACILITY, NORFOLK, VA.
New initiatives in international programs
[AD-P002813] 13 p2060 N84-23359
NAVAL AIR SYSTEMS COMMAND, WASHINGTON, D. C.
Multi-year procurement a 'Team approach'
[AD-P002780] 13 p2055 N84-23327
US Navy hindcast spectral ocean wave model climatic atlas: North Atlantic Ocean
[AD-A141810] 20 p3250 N84-30627
NAVAL AIR TEST CENTER, PATUXENT RIVER, MD.
Crash Position Indicator/Crash Survivable Flight Data Recorder ejectable versus nonejectable
[AD-A132329] 04 p0484 N84-13184
The impact of the F/A-18 aircraft digital flight control system and displays on flight testing and safety
06 p0777 N84-15091
Utilization of double integration methodology to determine an aircraft's vertical displacement
[AD-P002681] 11 p1658 N84-20818
The silicon AIDS (Airborne Integrated Data Systems)
17 p2587 N84-26583
Crash Position Indicator/Crash Survival Flight Data Recorder (CPI/CSFDR): Ejectable versus nonejectable
17 p2587 N84-26584
Simulation applied to the avionics system testing in the F/A-18 24 p3849 N84-34409
NAVAL AVIONICS CENTER, INDIANAPOLIS, IND.
Data word standardization
[AD-P003543] 21 p3333 N84-31147
Navy packaging standardization thrusts
[AD-P003564] 21 p3336 N84-31169
NAVAL BIODYNAMICS LAB., NEW ORLEANS, LA.
A high-performance analog-to-digital conversion subsystem suitable for the study of evoked potentials, with design considerations for the eclipse $140 (trademark) computer
[AD-A130353] 01 p0071 N84-10461
Effects of impact acceleration on somatosensory evoked potentials
[AD-A130280] 01 p0113 N84-10734
Effects of head impact acceleration on human performance: Overview and preliminary battery identification
[AD-A130286] 01 p0116 N84-10754
A detailed evaluation of the Endevco model 7302 (trade name) angular accelerometer
[AD-A134882] 08 p1162 N84-17562
Current research at the U.S. Naval Biodynamics Laboratory on human whole-body motion and vibration
[AD-A138367] 12 p1865 N84-22155
Massed practice: Does it change the statistical properties of performance tests?
[AD-A139338] 15 p2383 N84-25294
Error in CALSPAN 3-dimensional crash vehicle simulation computer program for the case of massless segments
[AD-A141783] 19 p3078 N84-29528
Photodigitizing procedures
[AD-A143589] 22 p3599 N84-32793
A method of photo data reduction, with design considerations for the NOVA 800 and UNIVAC 1100/83 computers
[AD-A144537] 24 p3947 N84-34997
NAVAL CIVIL ENGINEERING LAB., PORT HUENEME, CALIF.
The OTEC (Ocean Thermal Energy Conversion) mooring technology
[PB83-221168] 01 p0060 N84-10396

Fluidized bed air-to-air heat pump evaporator evaluation
[AD-A133072] 05 p0681 N84-14479
Pulse echo ultrasonic techniques for underwater inspection of steel waterfront structures
[AD-A133701] 05 p0689 N84-14527
An investigation of the indirect boundary element method in One- and two-dimensional elastostatics
[AD-A133142] 06 p0900 N84-15843
Design guidelines for heating aircraft hangars with radiant heaters
[AD-A138496] 12 p1774 N84-21565
Thermal energy recovery in gas turbine engine test cells
[AD-A139457] 14 p2172 N84-24009
Field demonstration of three-phase wanlass motors
[AD-A140085] 15 p2330 N84-24989
Feasibility of using Photovoltaic Power Systems (PPS) with High Pressure Sodium (HPS) lamps for magazine entry lighting
[AD-A140146] 16 p2519 N84-26169
Seawater hydraulics: Development and evaluation of an experimental diver tool system
[AD-A142032] 19 p3032 N84-29231
Preliminary guidelines for maintenance of polyurethane foam (PUF) roofing systems
[AD-A143458] 22 p3560 N84-32543
Fuel cell power systems for Navy applications
[AD-A143402] 22 p3618 N84-32923
Guide to technical documents. Volume 2: January 1983 through December 1983
[AD-A143596] 23 p3834 N84-34322

NAVAL COASTAL SYSTEMS LAB., PANAMA CITY, FLA.

Design guidelines for carbon dioxide scrubbers
[AD-A130459] 01 p0117 N84-10761

NAVAL COASTAL SYSTEMS CENTER, PANAMA CITY, FLA.

Development of passive diver thermal protection system
[AD-A130685] 01 p0117 N84-10762
Compendium of US incompressible flow facilities
[AD-A143650] 23 p3696 N84-33424

NAVAL ELECTRONIC SYSTEMS COMMAND, WASHINGTON, D. C.

Doing C2 (Command Control) experiments using war games
[AD-P002875] 13 p1977 N84-22836
Mortality and spareparts: A conceptual analysis
[AD-P002826] 13 p2062 N84-23371

NAVAL ENVIRONMENTAL PREDICTION RESEARCH FACILITY, MONTEREY, CALIF.

Short-range local forecasting of coastal summer stratus by statistical techniques, a pilot study
[AD-A134590] 07 p1040 N84-16742
Directory of research publications
[AD-A138224] 12 p1860 N84-22119
The use of satellite observed cloud patterns in Northern Hemisphere 300 mb and 1000/300 mb numerical analysis
[AD-A141215] 18 p2889 N84-28340
A spiral analysis technique for monitoring and predicting tropical cyclone intensity using satellite data
[AD-A141468] 19 p3058 N84-29401
Tropical cyclone sea-state probability model development and application
[AD-A142212] 19 p3059 N84-29407
Rain rate climatologies over marine regions
[AD-A144066] 23 p3802 N84-34109

NAVAL FACILITIES ENGINEERING COMMAND, ALEXANDRIA, VA.

Architecture earth-sheltered buildings: Design Manual 1.4
[AD-A140831] 17 p2629 N84-26820

NAVAL FLEET MATERIAL SUPPORT OFFICE, MECHANICSBURG, PA.

RIM-AIR (Repairable Integrated Model for aviation) study
[AD-A131141] 02 p0169 N84-11113

NAVAL HEALTH RESEARCH CENTER, SAN DIEGO, CALIF.

A survey of body fat content of U.S. Navy male personnel
[AD-A131500] 01 p0113 N84-10736
Minicomputer administered tasks in the study of effects of sustained work on human performance
[AD-A133870] 05 p0715 N84-14688
Benzodiazepine effects on arousal threshold during sleep
[AD-A133151] 07 p1047 N84-16792
Extending human effectiveness during sustained operations through sleep management
[AD-A134782] 08 p1200 N84-17825
Cognitive performance change during a 6-hour hike at low temperature in simulated rain, at controlled walking rates
[AD-A138358] 13 p2020 N84-23100
Aerobic/calisthenic and aerobic/circuit weight training programs for Navy men: A comparative study
[AD-A140971] 18 p2900 N84-28396
Health risks associated with aircraft model type among US Navy pilots
[AD-P003270] 18 p2907 N84-28435

NAVAL INTELLIGENCE SUPPORT CENTER, WASHINGTON, D. C.

Applications of composite materials in helicopter construction
[AD-A136678] 10 p1427 N84-19336

NAVAL MATERIAL COMMAND, WASHINGTON, D. C.

The Navy program to develop replacements for critical and strategic materials 23 p3704 N84-33478

NAVAL MEDICAL RESEARCH INST., BETHESDA, MD.

Efficiency of high-frequency ventilation as determined by nitrogen washouts: A model study
[AD-A131331] 02 p0265 N84-11745
A non-dimensional analysis of cardiovascular response to cold stress. Part 1: Identification of the physical parameters that govern the thermoregulatory function of the cardiovascular system
[AD-A138710] 15 p2380 N84-25285

NAVAL OBSERVATORY, FLAGGSTAFF, ARIZ.

Microdensitometer electronics modification
18 p2840 N84-28030

NAVAL OBSERVATORY, WASHINGTON, D.C.

Predicting variations in Earth rotation
09 p1411 N84-19225
Observations of faint planetary satellites with a charge-coupled device 19 p3120 N84-29832

NAVAL OCEAN RESEARCH AND DEVELOPMENT ACTIVITY, BAY ST. LOUIS, MISS.

A description of the NORDA satellite remote sensing hardware/software for prospective users
[AD-A130779] 01 p0067 N84-10438
A bathythermograph to sound velocity profile program for the HP-41CV calculator, including a Northern Hemisphere salinity profile library
[AD-A130761] 01 p0111 N84-10720
Assessment of potential SSM/I (Special Sensor Microwave/Imager) ice products in light ESMR (Electrically Scanning Microwave Radiometer) and SMMR (Scanning Microwave Spectrometer) ice classification algorithms
[AD-A130961] 02 p0239 N84-11570
A position paper: Mesoscale oceanography from GEOSAT
[AD-A132292] 04 p0569 N84-13749
An analysis of aircraft data collected in the Alboran Sea during Donde Va?, 6 - 18 October 1982
[AD-A133995] 06 p0883 N84-15746
Snow thickness and brightness temperature on multi-year ice
[AD-A133940] 06 p0884 N84-15747
Expendable bathythermograph (XBT) measurements in the Western Alboran Sea, October 1982
[AD-A133939] 06 p0884 N84-15748
The advection of submesoscale thermal features in the Alboran Sea Gyre
[AD-A133877] 06 p0884 N84-15749
Short-term measurements of surface currents associated with the Alboran Sea during Donde Va?
[AD-A133812] 06 p0884 N84-15750
The Grand Banks experiment: A satellite/aircraft/ship experiment to explore the ability of specialized radars to define ocean fronts
[AD-A136181] 09 p1304 N84-18522
Mechanical details of a modified Hamilton Frame velocimeter
[AD-A136180] 09 p1318 N84-18613
Open water and thin ice detection in the Arctic marginal ice zone using reflectometer signal analysis
[AD-A136043] 10 p1543 N84-20110
Statistics of vertical shear from a hemispheric model
[AD-A136179] 10 p1543 N84-20111
Piezometer probe technology for geotechnical investigations in coastal and deep-ocean environments
[AD-P002689] 11 p1659 N84-20824
Short term measurements of omnidirectional ambient noise in the southwest Atlantic during January 1981
[AD-A137666] 11 p1692 N84-21033
A second order upwind flux method for hyperbolic conservation laws
[AD-A139769] 15 p2332 N84-25008
Performance tests of 4-5 year old lithium sulphur dioxide batteries
[AD-A139842] 15 p2363 N84-25176
Analysis of airborne electromagnetic systems for mapping thickness of sea ice
[AD-A139786] 15 p2373 N84-25235
PAME Proceedings, Pattern Analysis in the Marine Environment, An Ocean Science and Technology Workshop
[AD-A140195] 16 p2532 N84-26257
Principal components as a method for atmospherically correcting coastal zone color scanner data
[AD-P003124] 16 p2533 N84-26265
The satellite altimeter as a platform for observation of the oceanic mesoscale 17 p2718 N84-27299
The depiction of Alboran Sea Gyre during Donde Va? using remote sensing and conventional data
17 p2719 N84-27306
The importance of altimeter and scatterometer data for ocean prediction 17 p2720 N84-27316
Sampling strategies and four-dimensional assimilation of altimetric data for ocean monitoring and prediction
17 p2721 N84-27317
The influence of actual and apparent geoid error on ocean analysis and prediction 17 p2721 N84-27318
Ocean optical remote sensing capability statement
[AD-A140589] 17 p2721 N84-27321
Analyzing temperature data from XBT grid surveys
[AD-A140685] 17 p2737 N84-27388
Microwave radiometric measurement of sea surface salinity
[AD-A141302] 18 p2893 N84-28359
GEOSAT Ocean Applications Program (GOAP) initial data processing and analysis system test and evaluation plan
[AD-A141673] 19 p3062 N84-29426
Deep-Towed Array Geophysical System (DTAGS): A hardware description
[AD-A142970] 21 p3444 N84-31851
Hydrographic measurements in the western Arlboran Sea, October 1982
[AD-A143588] 22 p3627 N84-32985

NAVAL OCEAN SYSTEMS CENTER, SAN DIEGO, CALIF.

On-line monitoring guide for technical personnel
[AD-A131044] 01 p0159 N84-11047
Network design tool for EHF satellite communications networks
[AD-A131812] 03 p0361 N84-12349
Optical extinction coefficients beneath marine stratus clouds. Comparison of coefficients calculated from observed aerosol spectra with coefficients specified by the Navy aerosol model
[AD-A132011] 03 p0410 N84-12685
Technology assessment: 1983 forecast of future test technology requirements
[AD-A132421] 04 p0623 N84-14107
ELF/VLF (Extremely Low Frequency/Very Low Frequency) long path pulse program for antennas of arbitrary elevation and orientation
[AD-A133876] 05 p0667 N84-14388
XWVG: A waveguide program for trilinear tropospheric ducts. Computer program for calculating the signal levels of EM (Electromagnetic) waves propagating over seawater
[AD-A133667] 05 p0669 N84-14399
F-region variability and HF-propagation
06 p0869 N84-15658
Microfiche Image Transmission System (MITS) demonstration field evaluation of microfacsimile
[AD-A134716] 08 p1145 N84-17450
Asymptotic properties of extended Yule-Walker estimates of the AR parameters of an ARMA (autoregressive moving-average)
[AD-A134981] 08 p1221 N84-17970
Propagation of ELF (extremely low frequencies) waves in the spherical Earth-ionosphere waveguide with transverse and longitudinal variation of properties
[AD-A135890] 09 p1300 N84-18502
Signal processing applications of systolic array technology (extended summary)
09 p1399 N84-19139
Comments on measures of performance of selected signal detectors
[AD-A137102] 10 p1482 N84-19684
Temperature effects of cement joints in ceramic-stack resonators
[AD-A137435] 10 p1486 N84-19716
Computing confidences in tactical rule-based systems by using Dempster-Shafer theory
[AD-A137274] 10 p1562 N84-20237
Equatorial scintillation of satellite signals and some drift characteristics of the scintillation
[AD-A137555] 11 p1642 N84-20738
Active reliability engineering, technical concept and program plan. A solid-state systems approach to increased reliability and availability in military systems
[AD-A137541] 11 p1666 N84-20866
A unified approach to modeling and combining of evidence through random set theory
[AD-P002880] 13 p1978 N84-22841
A man-machine interface concept for a state-of-art, shipboard, command/control console
[AD-P002894] 13 p1980 N84-22854

Microprocessor Database Management Systems (DBMS): Evaluation and comparison of three commercial DBMS
[AD-A139560] 14 p2203 N84-24222
Blue-green propagation through clouds
15 p2323 N84-24949
Tropospheric propagation assessment
15 p2326 N84-24965
CURV 3: Characteristics and mission applications
[AD-A140225] 17 p2629 N84-26819
NOSC (Naval Ocean Systems Center)-Hawaii perceptual sciences research program
[AD-P003361] 18 p2913 N84-28474
Factors affecting visual performance with stereoscopic television displays
[AD-P003362] 18 p2913 N84-28475
HP-85/Mini-Ranger navigation system
[AD-A142131] 19 p2961 N84-26770
Sensitivity of a lidar inversion algorithm to parameters relating atmospheric backscatter and extinction
[AD-A141585] 19 p3054 N84-29378
Kernel Ada Programming Support Environment (KAPSE) interface team, public report, volume 3
[AD-A141576] 19 p3077 N84-29523
The KAPSE (Kernel Ada (Trademark) Programming Support Environment) interface team
[AD-P003557] 21 p3335 N84-31161
The least squares lattice algorithm: An alternate derivation with a discussion of numerical conditioning
[AD-A143439] 22 p3645 N84-33114

NAVAL OCEANOGRAPHY COMMAND CENTER/JOINT TYPHOON WARNING CENTER, FPO SAN FRANCISCO, CALIF.

Forecast verification and reconnaissance data for Southern Hemisphere tropical cyclones
[AD-A130187] 01 p0108 N84-10700
Tropical cyclones affecting Guam (1671-1960)
[AD-A134016] 05 p0708 N84-14638
Tropical cyclone report, January - December 1963
[AD-A137836] 11 p1687 N84-21000

NAVAL OCEANOGRAPHY COMMAND DETACHMENT, ASHEVILLE, N.C.

Climatic publications
[AD-A136021] 09 p1349 N84-18816
Climatic study of the southern California operating area near coastal zone
[AD-A137698] 11 p1687 N84-20999

NAVAL OCEANOGRAPHIC OFFICE, BAY ST. LOURS, MISS.

Geophysics and tectonic development of the Caroline Basin
[AD-A131314] 02 p0258 N84-11686
Multivariate, minimum-curvature splines for randomly spaced data
[AD-A132319] 04 p0590 N84-13899
Water mass classification in the North Atlantic using IR digital data and Bayesian decision theory
[AD-P003125] 16 p2534 N84-26266

NAVAL ORDNANCE STATION, INDIAN HEAD, MD.

Vernier Rocket Motor Mk 84 Mod 0 quality evaluation
[AD-A133301] 06 p0796 N84-15185
Tangential mode instability in double-base solid rocket motors: A case study
13 p1946 N84-22652

NAVAL PERSONNEL RESEARCH AND DEVELOPMENT CENTER, SAN DIEGO, CALIF.

Effects of behavioral objectives and instructions on earning a category task
[AD-A130386] 01 p0116 N84-10750
Productivity improvement in a purchase division: Evaluation of a Performance Contingent Reward System (PCRS)
[AD-A133589] 07 p1050 N84-16801

NAVAL POSTGRADUATE SCHOOL, MONTEREY, CALIF.

A critique of NAVSTAR Global Positioning System, user equipment, configuration control for DoD common and Navy unique items
[AD-A131234] 01 p0008 N84-10047
The CEMS (Comprehensive Engine Management System) IV OAP (Oil Analysis Program) algorithm
[AD-A131055] 01 p0011 N84-10072
The cost growth problem: A realistic diagnosis and solution
[AD-A131082] 01 p0159 N84-11049
Racial bias and predictive validity in testing for selection
[AD-A131830] 03 p0416 N84-12722
Computer system design environment software development plan
[AD-A131651] 03 p0420 N84-12747
An experimental investigation into the forebody and engine inlet airflow characteristics of a photographic reconnaissance window pallet on the RF/A-18 aircraft
[AD-A132271] 04 p0481 N84-13167
Helicopter vertical stabilizer design considerations
[AD-A132308] 04 p0483 N84-13180
A microcomputer program package of the USAF stability and control DATCOM
[AD-A132143] 04 p0487 N84-13199
A gas turbine combustor test facility for fuel composition investigations
[AD-A132479] 04 p0487 N84-13201
An experimental investigation of soot behavior in a gas turbine combustor
[AD-A132210] 04 p0487 N84-13202
Characterization of the structure and substructure of thermally transformation cycled Cu-Zn-Al shape memory alloys
[AD-A132341] 04 p0499 N84-13270
Thermomechanical processing of M-50 steel
[AD-A132272] 04 p0499 N84-13271
Signal processor interface simulation of the AN/SPY-1A radar controller
[AD-A132170] 04 p0522 N84-13429
An experimental evaluation of the thermal performance of a rotating heat pipe with internal axial fins
[AD-A132553] 04 p0533 N84-13504
Measurement of velocity distributions in turbulent jets using a laser Doppler velocimeter
[AD-A132316] 04 p0533 N84-13506
Condensation heat transfer of steam on a single horizontal tube
[AD-A132245] 04 p0533 N84-13508
An analysis of smooth and axially finned, rotating heat pipe condensers
[AD-A132141] 04 p0534 N84-13509
Probabilistic fatigue life predictions of structural components in high-cycle fatigue regimes
[AD-A132425] 04 p0549 N84-13615
The effects of environment and dwell on high temperature fatigue crack growth of 2 1/4 Cr - 1 Mo steel
[AD-A132147] 04 p0549 N84-13617
An analysis of pC-3 micropulsion in the geomagnetic field
[AD-A132443] 04 p0563 N84-13709
Quasi-Lagrangian diagnostics applied to an extratropical explosive cyclogenesis in the North Pacific
[AD-A132213] 04 p0568 N84-13741
Baroclinic Rossby wave signature in a general circulation ocean model
[AD-A132219] 04 p0569 N84-13750
Ocean mixing and circulation response in the marginal ice zone
[AD-A132174] 04 p0569 N84-13751
Design and implementation of a BASIC cross-compiler and virtual memory management system for the TI-59 programmable calculator
[AD-A132172] 04 p0577 N84-13808
The design of backtrack algorithms
[AD-A132299] 04 p0580 N84-13828
Model Statement Language/analyzer (MSL/MSA): A top-down Problem Statement Language/analyzer (PSL/PSA) approach for the user dialogue in decision support systems
[AD-A132273] 04 p0580 N84-13829
Utilization of Ada as a program design language
[AD-A132244] 04 p0580 N84-13830
A user's guide to ARSPIQ: The univariate time series analysis program for autoregressive spectral information quantile identification
[AD-A132217] 04 p0581 N84-13831
Automated design of microprocessor-based digital filters
[AD-A132214] 04 p0581 N84-13832
Development of a GIFTS (graphics-oriented interactive finite-element time-sharing system) plotting package compatible with either PLOT10 or IBM/DSM graphics
[AD-A132195] 04 p0581 N84-13833
Benchmarking the join operations of relational database machines
[AD-A132312] 04 p0584 N84-13861
Logic design of a shared disk system in a multi-micro computer environment
[AD-A132165] 04 p0585 N84-13862
Artificial intelligence techniques for industrial applications in job shop scheduling
[AD-A132164] 04 p0586 N84-13867
An introduction to the parabolic equation for acoustic propagation
[AD-A132315] 04 p0595 N84-13925
Calculation of atmospheric transmittance by IBM 3033 computer code LOWTRAN IIIB
[AD-A132123] 04 p0604 N84-13989
The effect of condensate inundation on steam condensation heat transfer to wire-wrapped tubing
[AD-A132175] 04 p0615 N84-14060
Knowledge base management for model management systems
[AD-A132211] 04 p0615 N84-14062
Bank-to-Turn cruise missile terminal guidance and control law comparison
[AD-A132595] 05 p0629 N84-14136
Powerplant selection for conceptual helicopter design
[AD-A132982] 05 p0632 N84-14153
An analysis of the satellite kinematics model in the Naval Warfare Gaming System
[AD-A134039] 05 p0643 N84-14229
Excitation frequency dependence of conductivity of electrolytic solutions
[AD-A132782] 05 p0650 N84-14272
Degradation of fracture toughness in steels due to prior strain: A predictive model
[AD-A132600] 05 p0654 N84-14300
The structure and behavior of vacuum plasma sprayed overlay coatings on nickel based superalloys
[AD-A132631] 05 p0654 N84-14301
An investigation of substrate effects on type two hot corrosion of marine gas turbine materials
[AD-A132833] 05 p0655 N84-14303
Fatigue crack growth rates of high-magnesium aluminum-magnesium alloys as influenced by solution treatment time and alloy content
[AD-A132928] 05 p0655 N84-14305
On the unsteady response of an oceanic front to local atmospheric forcing
[AD-A132215] 05 p0708 N84-14637
A statistical approach for determining subsurface thermal structure from sea surface temperature in the northeast Pacific Ocean
[AD-A132204] 05 p0711 N84-14658
Microcomputer networking: A CP/M-Based application
[AD-A134124] 05 p0718 N84-14707
General Purpose Electronic Test Equipment (GPETE) acquisition considerations for automated calibration
[AD-A133865] 05 p0718 N84-14709
Design of relational database benchmarks
[AD-A133651] 05 p0719 N84-14710
Technical and economic analysis of the planned visual display terminal employment for the Stock Point Logistics Integrated Communications Environment (SPLICE)
[AD-A133642] 05 p0719 N84-14711
INTEL 432/670 Ada benchmark performance evaluation in the Multiprocessor/Multiprocess environment
[AD-A132774] 05 p0719 N84-14715
The use of a microcomputer system as an aid to classical and digital control system design and analysis
[AD-A132945] 05 p0720 N84-14718
Design and implementation of software protocol in VAX/VMS using ethernet local area network
[AD-A133699] 05 p0728 N84-14778
Relational programming
[AD-A133643] 05 p0728 N84-14779
The software engineering prototype
[AD-A132612] 05 p0728 N84-14782
A computer science version of Goedel's theorem
[AD-A132903] 05 p0730 N84-14790
A horizontal range versus depth solution of sound source position under general sound velocity conditions using the Lloyd's mirror interference pattern
[AD-A134097] 05 p0742 N84-14875
An investigation of cascade energy density effects using classical trajectory simulations of sputtering by molecular ions
[AD-A132539] 05 p0743 N84-14880
Stimulated Cerenkov radiation beam monitor
[AD-A132817] 05 p0744 N84-14889
A calculator adaptation of the Markov chain model for manpower analysis
[AD-A132990] 05 p0757 N84-14966
The determination of user information requirements during the development of management information systems
[AD-A132998] 05 p0759 N84-14980
A summary of the Naval Postgraduate School Research Program
[AD-A132871] 05 p0766 N84-15024
A guideline for the planning and system requirement determination of a computer based educational system
[AD-A133529] 06 p0898 N84-15829
Report of tests of a compressor configuration of DCA blading
[AD-A133350] 07 p1002 N84-16501
Data analysis and modeling of arctic sea ice subsurface roughness
[AD-A133349] 07 p1041 N84-16750
Variable area ejector-diffuser model tests
[AD-A134843] 08 p1105 N84-17182
Characteristics of a four nozzle, slotted mixing stack with slanted shroud, gas eductor system
[AD-A134794] 08 p1159 N84-17547
A determination of the constants for a second-order closure turbulence model from geophysical data
[AD-A134826] 08 p1195 N84-17795

A computer program for solving the parabolic equation using an implicit finite-difference solution method and incorporating exact interface conditions
[AD-A135325] 08 p1212 N84-17903

A multiple leg TMA (Target Motion Analysis) procedure with programs for the Hewlett-Packard HP-41CV, the Hewlett-Packard HP-75C, the sharp pC-1500 (TRS-80 pC and the Radio Shack TRS-80 model 100 portable computers
[AD-A134870] 08 p1213 N84-17912

Linear time-variant space-variant filters and the WKB approximation
[AD-A134886] 08 p1228 N84-18021

Computer programs for helicopter high speed flight analysis
[AD-A136376] 09 p1255 N84-18191

Computer program for preliminary helicopter design
[AD-A136026] 09 p1256 N84-18197

Development of a flight simulation concept and aerodynamic buildup for investigation of departure prevention systems in tactical aircraft
[AD-A136182] 09 p1259 N84-18221

Electromagnetic near-field computations for a broadcast monopole using Numerical Electromagnetics Code (NEC)
[AD-A135975] 09 p1303 N84-18516

Interpretation of a SAR (Synthetic Aperture Radar) image of the Bay of Biscay
[AD-A135981] 09 p1303 N84-18517

An iteration algorithm for optimal network flows
[AD-A136183] 09 p1304 N84-18523

VLSI (Very Large Scale Integrated) design of a 16 bit very fast pipelined carry look ahead adder
[AD-A136356] 09 p1306 N84-18540

Analysis and testing of the thermal design of the electronic package in the US Army's Upgraded Logic Module (ULM)
[AD-A135998] 09 p1308 N84-18551

Design and analysis of a generalized class of fin-line filters
[AD-A136050] 09 p1309 N84-18558

Experimental investigation of turbulent heat transfer in straight and curved rectangular ducts
[AD-A136239] 09 p1313 N84-18581

Impulsively-started flow about rectangular cylinders
[AD-A136029] 09 p1315 N84-18595

Design optimization of marine reduction gears
[AD-A136352] 09 p1325 N84-18656

Numerical simulation of the forcing of monsoon surges by mid-latitude baroclinic waves
[AD-A136274] 09 p1348 N84-18807

A model for tidal circulation adapted to Monterey Bay, California
[AD-A135077] 09 p1351 N84-18827

Finite element grid optimization
[AD-A136025] 09 p1378 N84-19001

A multi-period repair parts inventory model for a naval air rework facility
[AD-A136873] 10 p1419 N84-19280

Experimental determination of the relative flow at the tip of a transonic axial compressor rotor
[AD-A137483] 10 p1420 N84-19288

An application of the Navstar global positioning system in navigation track reconstruction for Naval exercises
[AD-A136807] 10 p1425 N84-19321

A comparison of two extended Kalman filter algorithms for air-to-air passive ranging
[AD-A136838] 10 p1426 N84-19323

Position determination with Loran-C triplets using the Hewlett-Packard HP-57C, the Sharp PC-1500 (TRS-80 PC-2) or the Radio Shack TRS-80 model 100 portable computers
[AD-A137009] 10 p1426 N84-19327

Preliminary assessment of a rotary detonation engine concept
[AD-A137492] 10 p1431 N84-19354

Design and testing of scaled ejector-diffusers for jet engine test facility applications
[AD-A136745] 10 p1432 N84-19364

Effects of preheat on weldments of NICOP steel
[AD-A137145] 10 p1458 N84-19524

Characterizations of preheated and non-preheated HY-80 steel weldments by transmission electron microscopy
[AD-A136966] 10 p1460 N84-19537

A layered communication system for ethernet
[AD-A136799] 10 p1481 N84-19676

Flow generation in a novel centrifugal diffuser test device
[AD-A136874] 10 p1492 N84-19754

An error analysis of range-azimuth positioning
[AD-A136775] 10 p1525 N84-19990

An evaluation of 700 mb aircraft reconnaissance data for selected Northwest Pacific tropical cyclones
[AD-A137362] 10 p1540 N84-20089

A quasi-lagrangian diagnostics investigation of rapid cyclogenesis in a polar air stream
[AD-A136844] 10 p1540 N84-20091

Analysis of observed and modeled mixed layers: Nocal (northern California) region
[AD-A136773] 10 p1543 N84-20109

A mathematical model for oxygen toxicity in man
[AD-A137379] 10 p1547 N84-20139

The effect of noise and display orientation on cognitive performance
[AD-A136808] 10 p1550 N84-20158

A microcomputer based general linear programming optimization package
[AD-A137506] 10 p1557 N84-20198

Implementation of a reliability shorthand on the Apple 2(+) microcomputer
[AD-A136778] 10 p1557 N84-20203

A user-oriented microprocessor shell command language interpreter
[AD-A136809] 10 p1563 N84-20242

SIMTBED: A graphical test bed for analyzing and reporting the results of a statistical simulation experiment
[AD-A136812] 10 p1563 N84-20243

Efficient computation of the k-terminal reliability of directed acyclic networks
[AD-A136900] 10 p1570 N84-20286

Description and analysis of PACAM 5 (Piloted Air Combat Analysis Model) as a tactical decision aid with a user's guide for operation at NPS
[AD-A136793] 10 p1574 N84-20313

Near-optimal finite solutions to the 3 and 4 step discrete evasion games
[AD-A136811] 10 p1574 N84-20314

Absolute electroacoustic measurement of temperature oscillations in superfluid helium by the reciprocity method
[AD-A136951] 10 p1575 N84-20322

Benchmarking relational database machines' capabilities in supporting the database administrators' functions and responsibilities
[AD-A137413] 10 p1593 N84-20437

Benchmarking the selection and projection operations and ordering capabilities of relational database machines
[AD-A136776] 10 p1593 N84-20438

Statistical models for estimating overhead costs
[AD-A137351] 10 p1593 N84-20444

Determination of boundary layer transition and separation on double circular arc compressor blades in a large subsonic cascade
[AD-A137550] 11 p1652 N84-20786

Nonparametric statistics test software package
[AD-A137170] 11 p1708 N84-21132

An expected value air combat model simulation algorithm to predict missions performance in tactical air operations
[AD-A137651] 11 p1718 N84-21207

Cerenkov radiation from bunched electron beams, revised
[AD-A137533] 11 p1729 N84-21280

Diffraction effects in Cerenkov radiation
[AD-A137540] 11 p1729 N84-21281

Decision theory: Individual biases and their effect on forecasting in an organization
[AD-A137943] 11 p1746 N84-21395

Survivability design guidelines for Fly-By-Wire Flight Control Systems development
[AD-A138211] 12 p1772 N84-21557

Some links between turtle geometry and analytic geometry
[AD-A138319] 12 p1882 N84-22269

Methodology for benefit analysis of CAD/CAM (Computer-Aided Design/Computer-Aided Manufacturing) in USN shipyards
[AD-A138398] 12 p1882 N84-22270

Top-down statistical estimation on a database
[AD-A138318] 12 p1896 N84-22351

Measurements of direct path and folded path optical scintillation using a corner cube reflector
[AD-A138485] 12 p1908 N84-22429

Diophantine inferences from statistical aggregates on few-valued attributes
[AD-A138365] 12 p1919 N84-22501

Educational aids in aircraft combat survivability
[AD-A139090] 13 p1931 N84-22556

An investigation of experimental techniques for obtaining particulate behavior in metallized solid propellant combustion 13 p1947 N84-22659

Three-dimensional, primitive-variable model for solid-fuel ramjet combustion 13 p1952 N84-22688

Three-dimensional, primitive-variable model for solid-fuel ramjet combustion
[AD-A138756] 13 p1956 N84-22715

The heat treatment response of thermomechanically processed M-50 steel
[AD-A138571] 13 p1960 N84-22736

Lanchester's equations and game theory
[AD-P002877] 13 p1978 N84-22838

Investigation of non-linear estimation of natural resonances in target identification
[AD-A139027] 13 p1984 N84-22878

Underwater shock-induced responses of submerged cylindrical structures
[AD-A139072] 13 p2002 N84-22987

Coherence study of geomagnetic fluctuations in frequency range .04 - 0.8 HZ between remote land sites
[AD-A138542] 13 p2011 N84-23042

The effect of interior motion on seasonal thermocline evolution
[AD-A138270] 13 p2018 N84-23088

Documentation for software maintenance
[AD-A138663] 13 p2028 N84-23152

Contractor 'Hungriness' and the relative profitability of DoD business
[AD-P002796] 13 p2057 N84-23342

Application of a distributed routing algorithm to a packet-switched communications network
[AD-A139147] 14 p2140 N84-23828

Development of the A-6E/A-6E TRAM/KA-6D NATOPS (Naval Air Training and Operating Procedures Standardization) calculator aided performance planning system (NCAPPS)
[AD-A138897] 14 p2186 N84-24100

A methodology for benchmarking relational database machines
[AD-A139104] 14 p2202 N84-24217

Computer programs for helicopter data display and conceptual design
[AD-A139096] 14 p2205 N84-24231

Development of a microcomputer-based engineering design optimization software package
[AD-A139123] 14 p2205 N84-24232

The normal approximation and queue control for response times in a processor-shared computer system model
[AD-A139587] 14 p2210 N84-24263

System safety and the Coast Guard lighter-than-air system project
[AD-A139807] 15 p2258 N84-24564

Computer simulated development of a command to Line-of-Sight missile using on-off control
[AD-A140041] 15 p2280 N84-24697

Design and analysis of Coordinated Bank-To-Turn (CBTT) autopilots for Bank-To-Turn (BTT) missiles
[AD-A140103] 15 p2280 N84-24698

Analysis of symmetric reinforcement of quasi-isotropic graphite-epoxy plates with a circular cutout under uniaxial tensile loading
[AD-A139998] 15 p2285 N84-24715

The effect of cold work on martensitic transformations in CU-ZN-AL shape memory alloys
[AD-A139975] 15 p2297 N84-24789

Electrical spray modification with various fuels in a t56 combustor
[AD-A139961] 15 p2304 N84-24824

Operational performance characteristics of a multiply-shrouded, angled-diffuser stack gas eductor in turbulent cross-flow
[AD-A139953] 15 p2343 N84-25068

One-dimensional model hindcasts of cold anomalies in the North Pacific ocean
[AD-A139870] 15 p2373 N84-25236

Observations of inertio-gravity waves in the wake of Hurricane Frederic
[AD-A139944] 15 p2373 N84-25239

An internal review and operational trial of a human factors engineering self-paced course in accordance with the instructional systems development process
[AD-A140011] 15 p2385 N84-25301

A guide to macro and micro computer performance evaluation
[AD-A140127] 15 p2389 N84-25329

A knowledge-based system for LP (Linear Programming) modeling
[AD-A139991] 15 p2392 N84-25357

APL (A Programming Language) TUTOR: An on-line instructional facility
[AD-A140117] 15 p2393 N84-25359

Naval aviation IMA repair capability: A readiness to resources approach
[AD-A140465] 16 p2434 N84-25612

Computer program to simulate digital computer based longitudinal flight control laws in a high performance aircraft
[AD-A140143] 16 p2451 N84-25719

Multiple path static routing protocols for packet switched networks
[AD-A140166] 16 p2483 N84-25919

Holographic investigation of solid propellant combustion particles
[AD-A140168] 16 p2496 N84-26016
Non-linear transient response of flat plate to air shock wave
[AD-A140491] 16 p2503 N84-26063
Low-level stratus prediction using binary statistical regression: A report using Moffett Field data
[AD-A140468] 16 p2551 N84-26370
An analysis of naval aviation configuration status accounting
[AD-A140473] 16 p2565 N84-26460
Specialized common carriers: Long distance alternatives for military installations
[AD-A140596] 17 p2653 N84-26967
A comparison of the tube-side performance of enhanced heat transfer tubing for Naval condensers
[AD-A126938] 17 p2667 N84-27008
Flow visualization study of natural convection from a heated protrusion in a liquid filled rectangular enclosure
[AD-A140696] 17 p2668 N84-27012
Heat transfer measurements of internally finned rotating heat pipes
[AD-A140847] 17 p2668 N84-27015
Response of an atmospheric prediction model to time-dependent sea-surface temperatures
[AD-A140730] 17 p2734 N84-27377
Renormalization of seasonals in the additive seasonal model: Is it necessary?
[AD-A140799] 17 p2734 N84-27379
The implementation of a multi-backend database system (MDBS). Part 4: The revised concurrency control and directory management processes and the revised definitions of inter-process and inter-computer messages
[AD-A140874] 17 p2750 N84-27453
HP-41C programs and instructions for probability and statistics
[AD-A140573] 17 p2752 N84-27468
Design of an integrated software system based on the relational data base model
[AD-A140628] 17 p2752 N84-27470
PROJMNG FORTRAN: An interactive computer program for use with the defense management simulation exercise
[AD-A140709] 17 p2753 N84-27472
Suppression of finite-amplitude effects in sloshing modes in cylindrical cavities
[AD-A140652] 17 p2758 N84-27509
On the distribution of complexity for de Bruijn sequences
[AD-A140679] 17 p2758 N84-27510
An autoregressive process for Beta random variables
[AD-A140848] 17 p2759 N84-27514
High-speed recursive digital filter realization
[AD-A140904] 17 p2759 N84-27517
A note on the derivation of theoretical autocovariances for ARMA models
[AD-A140829] 17 p2760 N84-27527
Computer simulation studies of sputtering from clean tungsten and nitrogen reacted tungsten and molybdenum surfaces
[AD-A140900] 17 p2769 N84-27581
The decision for the optimal price in competitive bidding: The case of a Korean construction company
[AD-A140556] 17 p2770 N84-27585
Contract audit followup: Its impact on defense contracting
[AD-A140627] 17 p2770 N84-27587
The introduction of uncertainty techniques to the productivity investment fund
[AD-A140664] 17 p2770 N84-27591
Control systems
[AD-A140901] 17 p2771 N84-27592
An analysis of Department of Defense financial and acquisition policies in support of military contingency requirements
[AD-A140620] 17 p2773 N84-27607
Sensitivity analysis of predicted reacting flow characteristics in solid fuel ramjet combustors
[AD-A141279] 18 p2796 N84-27740
Effect of shroud geometry on the effectiveness of a short mixing stack gas eductor model
[AD-A132173] 18 p2836 N84-28004
The design of a test procedure for the measurement of acoustic damping materials at low stress
[AD-A132701] 18 p2853 N84-28113
Synoptic classification and horizontal homogeneity of the refractive index structure function parameter in the surface layer
[AD-A140925] 18 p2879 N84-28280
A study of precipitation occurrence using visual and infrared satellite data
[AD-A141012] 18 p2889 N84-28338
Empirical and dynamic modes in the CCS (California current system)
[AD-A141047] 18 p2892 N84-28357

A three-dimensional transonic, potential flow computer program, its conversion to IBM FORTRAN and utilization
[AD-A140936] 18 p2921 N84-28521
Office automation: A look beyond word processing
[AD-A132764] 18 p2944 N84-28670
The database management module of the SPLICE system
[AD-A132795] 18 p2945 N84-28671
The Enforcer aircraft program: A lower-cost alternative weapon system
[AD-A141564] 19 p2955 N84-28728
The effect of component redundancy upon aircraft combat survivability
[AD-A141815] 19 p2964 N84-28784
Proposal and development plan for an aircraft systems integration laboratory
[AD-A141827] 19 p2970 N84-28822
Elastic-plastic fracture toughness testing methods
[AD-A142033] 19 p3036 N84-29259
Error analysis for winters' additive seasonal forecasting system
[AD-A141355] 19 p3058 N84-29399
Hydrographic data from the OPTOMA (Ocean Prediction Through Observations, Modeling and Analysis) program OPTOMA2, legs I and II, 31 July - 14 August, 1982
[AD-A141547] 19 p3061 N84-29424
Hydrographic data from the OPTOMA (Ocean Prediction Through Observations, Modeling and Analysis) program: OPTOMA1, 8 to 13 March 1982
[AD-A141666] 19 p3061 N84-29425
The space-time scales of variability in oceanic thermal structure off the central California coast
[AD-A142040] 19 p3062 N84-29428
A design method for a state feedback microcomputer controller of a wide bandwidth analog plant
[AD-A142101] 19 p3072 N84-29490
Real-time applications in multiprocessor systems
[AD-A142130] 19 p3072 N84-29492
A tutorial for the Ramtek 9460 raster graphics system and the di-3000 graphics package
[AD-A141834] 19 p3078 N84-29530
Absolute bounds on the mean and standard deviation of transformed data for constant-derivative transformations
[AD-A141854] 19 p3088 N84-29605
The approximate solution of a simple constrained search path moving target problem using moving horizon policies
[AD-A142164] 19 p3089 N84-29612
Cerenkov radiation generated by periodic electron bunches in a finite air path
[AD-A142063] 19 p3101 N84-29700
Performance evaluation tools for a multi-backend database system
[AD-A141786] 19 p3116 N84-29800
Application of sensitivity analysis to aerodynamic parameters of a bank to turn missile
[AD-A141940] 20 p3134 N84-29899
Effects of emotional and perceptual-motor stress on a voice recognition system's accuracy: An applied investigation
[AD-A142554] 20 p3175 N84-30160
Surface disturbances due to trailing vortices
[AD-A142693] 20 p3184 N84-30233
Characterization of submerged-arc and gas-metal-arc weldments in hY-100 steel
[AD-A141939] 20 p3196 N84-30298
A synoptic case study analysis of the ocean temperature anomalies in the central Pacific region, 1976 - 1979
[AD-A142548] 20 p3251 N84-30631
Interannual variability in sea-surface temperature at one location along the central California coast
[AD-A142553] 20 p3251 N84-30632
Computer graphics enhancement for COMEL (communications electronics)
[AD-A141920] 20 p3269 N84-30741
Improvements to software maintenance methods in real time embedded aviation flight systems
[AD-A141949] 20 p3269 N84-30742
CHART and SKETCH: An interactive computer graphics program
[AD-A141997] 20 p3269 N84-30744
A retrievable recipe for inverse t
[AD-A142557] 20 p3281 N84-30829
Computer simulation studies of sputtering and multimer formation from clean and oxygen reacted surfaces of titanium, vanadium and niobium
[AD-A141998] 20 p3308 N84-31009
The application of a general purpose data base management system to design automation
[AD-A141999] 20 p3314 N84-31048
Superplasticity in thermomechanically processed high magnesium aluminum-magnesium alloys
[AD-A143164] 21 p3366 N84-31356

Analysis of modern analog and digital communication channels from a manager's perspective
[AD-A143161] 21 p3387 N84-31494
An analytical evaluation of spall suppression of impulsively loaded aluminum panels based on a 1-dimensional stress wave propagation model
[AD-A143173] 21 p3422 N84-31708
Large-scale atmosphere-ocean coupling
[AD-A143162] 21 p3447 N84-31873
Sources of error in objective analysis
[AD-A142772] 21 p3474 N84-32020
A comparison of 2 acoustic parabolic transmission loss models for compatibility with the wavenumber technique in the determination of source depth
[AD-A143079] 21 p3492 N84-32128
Measurement of LINAC bunch parameters using the Cerenkov effect
[AD-A143128] 21 p3493 N84-32136
Radiation from intense electron beams associated with the Cherenkov mechanism
[AD-A143350] 22 p3577 N84-32657
Representation of potential flow about axisymmetric bodies with discrete singularities
[AD-A143526] 22 p3594 N84-32760
Report of tests of a compressor configuration of CD (Controlled Diffusion) blading
[AD-A143499] 22 p3604 N84-32832
Use of the tensor product for numerical weather prediction by the finite element method, part 1
[AD-A143273] 22 p3625 N84-32970
Time development of Cerenkov radiation
[AD-A143225] 22 p3653 N84-33155
Optimal digital control of a bank-to-turn missile
[AD-A144043] 23 p3699 N84-33447
An evaluation of polymer coatings for the promotion of dropwise condensation of steam
[AD-A144018] 23 p3725 N84-33602
Cooling of high power generators and motors for electric propulsion
[AD-A144049] 23 p3742 N84-33720
Measurement of range-resolved water vapor concentration by coherent CO2 differential absorption lidar
[AD-A143594] 23 p3753 N84-33791
Effect of boundary conditions on the damping characterstics of a randomly excited cast nickel-aluminum bronze specimen at low stress levels
[AD-A143685] 23 p3761 N84-33837
A study of antarctic remote site automatic weather station data (1980-81) from the ross ice shelf area
[AD-A143738] 23 p3802 N84-34105
An evaluation of the SPADS automated cloud analysis program
[AD-A143987] 23 p3802 N84-34106
Predictability of inversions at Vandenberg (VBG) AFB, California
[AD-A144042] 23 p3802 N84-34107
Use of the tensor product for numerical weather prediction by the finite element method, part 2
[AD-A144064] 23 p3802 N84-34108
Spatial structures of optical parameters in the California current as measured with the Nimbus-7 coastal zone color scanner
[AD-A144070] 23 p3803 N84-34115
Development of real-time error ellipses as an indicator of Kalman filter performance
[AD-A143698] 23 p3812 N84-34174
A comparison of impedance measurement techniques in air
[AD-A143638] 23 p3821 N84-34232
An analysis of the effectiveness of the problem solving skills for managers training package--USCG
[AD-A144017] 23 p3834 N84-34317
The simulation of a major Automated Information System (AIS) on a microcomputer
[AD-A143599] 23 p3834 N84-34323
The creation of a central database on a microcomputer network
[AD-A143875] 23 p3835 N84-34326
An analysis of three approaches to the helicopter preliminary design problem
[AD-A144315] 24 p3854 N84-34440
Computer program to simulate the lateral-directional response of a high performance aircraft digital electronic flight control system
[AD-A144480] 24 p3856 N84-34447
An analysis of coherent digital receivers in a jamming environment
[AD-A144441] 24 p3895 N84-34667
Computer aided data acquisition and control of an internal combustion engine
[AD-A144425] 24 p3946 N84-34990
Interactive implementation of the optimal systems control design program (OPTSYSX) on the IBM 3033
[AD-A144159] 24 p3948 N84-35000

Short-pulse laser and plasma surface interactions
[AD-A144538] 24 p3965 N84-35109
Comparative analysis of government and private sector ADP acquisition
[AD-A144523] 24 p3969 N84-35131

NAVAL RESEARCH LAB., WASHINGTON, D. C.

Generalized list detection for coded MFSK/FH signaling on ading and jamming channels
[AD-A130199] 01 p0063 N84-10414
Survey of radar Automatic Detection and Tracking (ADT)
[AD-A130358] 01 p0064 N84-10420
A matched filter doppler processor for airborne radar
[AD-A130653] 01 p0065 N84-10425
Microcomputer aided tracking (MCAT)
[AD-A130651] 01 p0065 N84-10426
Range resolution of targets
[AD-A131065] 01 p0067 N84-10437
The 2400- to 800-B/S LPC (Linear Predictive Coder) rate converter
[AD-A129825] 01 p0070 N84-10456
Phthalocyanine derivatives specifically designed for fabrication of organic semiconductor gas sensors
[AD-A130611] 01 p0083 N84-10540
Design and operation of a collective millimeter-wave free-electron laser
[AD-A131628] 01 p0087 N84-10568
Small scale structure in the Earth's ionosphere: Theory and numerical simulation
[AD-A130462] 01 p0105 N84-10680
Long wavelength limit of the E X B instability
[AD-A129812] 01 p0105 N84-10681
Parametric excitation and suppression of convective plasma instabilities in the high latitude F-region ionosphere
[AD-A130652] 01 p0105 N84-10682
High-latitude F-region irregularities: Intensity and scale size distributions
[AD-A130889] 01 p0105 N84-10684
On the application of optical signal processing to the solution of Riccati equations
[AD-A130710] 01 p0133 N84-10869
Some probability models related to classical occupacy with possible applications to tactical analysis
[AD-A131056] 01 p0137 N84-10898
A review of research in chemical-acoustic coupling
[AD-A129896] 01 p0140 N84-10915
Optical waveguide gas sensors
[AD-A130629] 01 p0148 N84-10969
Anode plasma expansion in pinch-reflex diodes
[AD-A131083] 01 p0149 N84-10977
Stimulated Brillouin backscatter in long scale length plasmas
[DE83-013817] 01 p0150 N84-10984
Temperature dependence of hydrolysis of polyimide wire insulation
[AD-A131334] 02 p0200 N84-11301
A statistical examination of the effect of composition on the freezing points of hydro-carbon mixtures
[AD-A131000] 02 p0203 N84-11321
A FORTRAN computer program to compute the radiation pattern of an array-fed paraboloid reflector
[AD-A131060] 02 p0209 N84-11363
Measurements of atmospheric aerosols: Experimental methods and results of measurements off the east coast of the United States
[AD-A130998] 02 p0248 N84-11626
A methodology for collecting valid software engineering data
[AD-A131332] 02 p0272 N84-11781
Numerical simulation of high energy light ion beam flow through a foilless diode
[AD-A131001] 02 p0289 N84-11892
A broadband high power millimeter to centimeter spectrometer
[AD-A131629] 02 p0294 N84-11927
The historical records of the Naval Research Laboratory: A guide for researchers
[AD-A131620] 02 p0302 N84-11982
Techniques for locating a remote HF transmitter from single-site measurements
[AD-A132014] 03 p0360 N84-12342
Performance analysis of a three-dimensional microwave lens in a cylindrical array scanning application
[AD-A131891] 03 p0360 N84-12345
Numerical simulations of fuel droplet flows using a Lagrangian triangular mesh
[NASA-CR-168263] 03 p0370 N84-12411
RF conditioned dc discharges for excitation of rare gas halide lasers
[DE83-016537] 03 p0381 N84-12479
Creation of ultra-high-pressure shocks by the collision of laser-accelerated disks: Experiment and theory
[DE83-017366] 03 p0382 N84-12486
Transverse horizontal coherence and low-frequency array gain limits in the deep ocean
[AD-A131916] 03 p0430 N84-12821
Dynasty 2: A nonlinear implicit code for relativistic electron beam tracking studies
[AD-A131592] 03 p0432 N84-12829
Associations between coronal mass ejections and interplanetary shocks 03 p0474 N84-13121
Algorithms for single-signal and multisignal minimum-cross-entropy spectrum analysis
[AD-A132400] 04 p0520 N84-13420
On a relation between Maximum-Likelihood classification and Minimum-Cross-Entropy classification
[AD-A132237] 04 p0521 N84-13426
A compact optical pulse compressor with computer-generated holographic masks for radar applications
[AD-A132152] 04 p0522 N84-13430
Decoupling ion efficiency from impedance in pulsed power diodes
[DE83-018114] 04 p0528 N84-13470
Theoretical modeling of the plasma-erosion opening switch for inductive-storage applications
[DE84-001843] 04 p0529 N84-13483
Pseudospectral solution of inviscid flows with multiple discontinuities
[AD-A132084] 04 p0534 N84-13510
Analysis of stability and symmetry implications for ICF
[DE84-000640] 04 p0540 N84-13556
Vortex shedding and laser ablation
[DE84-000301] 04 p0541 N84-13565
Real-time processing system for the NRL (Naval Research Laboratory) remote sensing experiment: Phelps Bank, July 1982
[AD-A132151] 04 p0553 N84-13645
Data validation and summary for the NRL remote sensing experiment: Phelps Bank, July, 1982. Part 2: Meteorology
[AD-A132105] 04 p0553 N84-13646
Computed survey spectra of 2-5 micron atmospheric absorption
[AD-A132526] 04 p0563 N84-13708
Multisignal Minimum-Cross-Entropy spectrum analysis weighted priors
[AD-A132358] 04 p0589 N84-13896
Optimum depth of propagation in shallow water
[AD-A132182] 04 p0595 N84-13927
Optical properties of the marine aerosol as predicted by a BASIC version of the Navy aerosol model
[AD-A132411] 04 p0604 N84-13986
EPR spectroscopy of thermally initiated free radicals in RDX
[AD-A133976] 05 p0646 N84-14251
Dielectric resonators for use in microwave and millimeter-wave GaAs circuits
[AD-A132681] 05 p0675 N84-14440
Data validation and summary for the NRL remote sensing experiment. Phelps Bank, July 1982. Part 1: Hydrography
[AD-A132083] 05 p0697 N84-14575
Interface specifications for the SCR (A-7E) application data types module
[AD-A132717] 05 p0729 N84-14785
The effect of field index fluctuations on the dynamics of a high current electron ring in a modified betatron accelerator
[AD-A133089] 05 p0745 N84-14891
Electrostatic ion-cyclotron waves in magnetospheric plasmas: Non-local aspects
[NASA-CR-174501] 05 p0749 N84-14917
Non-LTE radiation from an argon seeded microballoon implosion 2
[AD-A133679] 05 p0749 N84-14919
Tearing instability in an anisotropic neutral sheet
[AD-A132684] 05 p0749 N84-14920
A comprehensive description of the mission sensor microwave imager (SSM/I) environmental parameter extraction algorithm
[AD-A134052] 05 p0759 N84-14976
Confidence region for the evaluation of HF DF single site location systems
[AD-A133208] 06 p0785 N84-15140
US Navy program in small cryocoolers
06 p0818 N84-15328
Considerations for choosing microwave transistors in high power shipboard search radars
[AD-A133279] 06 p0823 N84-15367
Aperture efficiency considerations in the convolution synthesis of symmetrical hexagonal arrays
[AD-A133367] 06 p0824 N84-15369
Performance characteristics of passive coherence estimators
[AD-A133209] 06 p0829 N84-15396
The relation between power and energy in the shock initiation of detonations. 1: Basic theoretical considerations and the effects of geometry
[AD-A133468] 06 p0844 N84-15505
On laser air breakdown, threshold power and laser generated channel length
[AD-A133211] 06 p0849 N84-15538
Dynamics of a high current electron ring in a conventional betatron accelerator
[AD-A133291] 06 p0914 N84-15945
Beam current limitations due to instabilities in modified and conventional betatrons
[AD-A133337] 06 p0915 N84-15947
Finite geometry effects on the stability of a charged beam propagating through a relativistic annular electron beam
[AD-A133338] 06 p0915 N84-15948
Heat-storage materials for IRCM
[AD-A133110] 06 p0917 N84-15961
Observation of magnetic fields in laser-produced plasma using the Zeeman effect
[DE84-002742] 06 p0921 N84-15989
Variation of laser absorption with plasma scalelength in long-scalelength plasmas
[DE84-002743] 06 p0921 N84-15991
Role of pressure in understanding the anomalous superconductivity in europium (molybdenum)6(sulfur)8 and (TMTSF)2FSO3
[DE83-017292] 06 p0925 N84-16012
European Scientific Notes. Volume 37, number 9
[AD-A133558] 06 p0935 N84-16079
Calculation of cosmic ray induced single event upsets: Program CRUP (Cosmic Ray Upset Program)
[AD-A133620] 06 p0941 N84-16113
Analysis of the performance of the free electron bolometer
[AD-A134139] 07 p1008 N84-16533
A comparison of SMMR (Scanning Multichannel Microwave Radiometer) and airborne microwave measurements during GOASEX (Gulf of Alaska experiment)
[AD-A134514] 07 p1008 N84-16534
A new data base of supercooled cloud variables for altitudes up to 10,000 ft. AGL and the implications for low altitude aircraft icing
[DOT/FAA/CT-83/21] 07 p1036 N84-16718
The use of ion implantation for materials processing
[AD-A134457] 07 p1072 N84-16963
X-ray production in long-scale length laser-plasma interaction experiments
[DE84-002472] 07 p1076 N84-16997
Extensions of the theory of the electron-phonon interaction in metals: A collection
[AD-A134140] 07 p1079 N84-17018
Dependence of thermoluminescence output on temperature during irradiation for several thermoluminescence phosphors
[AD-A134940] 08 p1125 N84-17313
A new derivation for the rough surface reflection coefficient and for the distribution of sea wave elevations
[AD-A134774] 08 p1145 N84-17453
Adaptive feedforward linear wideband HF power bank
[AD-A134744] 08 p1151 N84-17493
Automated acceptance test procedures for wideband microwave synthesized signal generator testing
[AD-A134923] 08 p1162 N84-17563
The evolution of spontaneous and coherent radiation in the free electron laser oscillator
[AD-A134458] 08 p1165 N84-17583
Nonlinear mode coupling theory of the lower-hybrid-drift instability
[AD-A135538] 08 p1187 N84-17734
Sea salt aerosol, atmospheric radon and meteorological observations in the western South Atlantic Ocean (February 1981)
[AD-A134792] 08 p1195 N84-17794
BERTHA: A versatile transmission line and circuit code
[AD-A135024] 08 p1209 N84-17886
Solitary waves in water colliding head-on
[AD-A135537] 08 p1220 N84-17964
A comparison of explicit time integration techniques for the finite element shock wave equations
[AD-A134757] 08 p1220 N84-17968
External injection into a high current modified betatron accelerator
[AD-A134694] 08 p1229 N84-18030
Time dependent, compressible simulations of shear flows: Tests of outflow boundary conditions
[AD-A136410] 09 p1314 N84-18587
Power-series solutions of the gasdynamic equations for Mach reflection of a planar shock by a wedge
[AD-A135953] 09 p1315 N84-18594

Computer-model results for the beach-escarpment-induced distortion of onshore wind flow at the northwest point of San Nicolas Island, California
[AD-A135952] 09 p1349 N84-18815
Anomalous transport in current sheets
[AD-A136030] 09 p1378 N84-19002
Reactive shock phenomena in condensed materials: Formulation of the problem and method of solution
[AD-A136514] 09 p1385 N84-19046
NRL (Naval Research Laboratory) plasma formulary, revised
[AD-A135787] 09 p1391 N84-19086
Status of light ion inertial fusion research at NRL (Naval Research Laboratory)
[AD-A135951] 09 p1392 N84-19087
Frequency stability analysis of GPS (Global Positioning System) NAVSTARs 3 and 4 rubidium clocks and the NAVSTARs 5 and 6 cesium clocks
[AD-A137376] 10 p1425 N84-19318
Multi-element X-ray shields for spacecraft
[AD-A137105] 10 p1449 N84-19466
Microbial deterioration of hydrocarbon fuels from oil shale, coal and petroleum. III: Inhibition of fungi by fuels from coal
[AD-A137177] 10 p1469 N84-19596
New high power coherent radiation sources
[AD-A137317] 10 p1479 N84-19662
Longitudinal resistivity and intermediate Mach number collisionless transverse magnetosonic shocks
[AD-A137122] 10 p1491 N84-19749
Nonlinear theory of the E x B instability with an inhomogeneous electric field
[AD-A137132] 10 p1569 N84-20277
Atomic structure in strongly coupled neon plasmas
[AD-A137341] 10 p1576 N84-20327
Thermal vacuum test facility
[AD-A137712] 11 p1620 N84-20607
Dry chemical development: A model for the extinction of hydrocarbon flames
[AD-A137952] 11 p1628 N84-20656
Real-time update of 2 H. F. (High Frequency) channel evaluation models by oblique sounding
[AD-A137556] 11 p1643 N84-20739
UHF (Ultra-High Frequency) propagation measurements
[AD-A137637] 11 p1643 N84-20741
A beam current density monitor for intense electron beams
[AD-A137146] 11 p1660 N84-20832
Accuracy of software development activity data: The software cost reduction project
[AD-A137639] 11 p1706 N84-21122
Optimal control and filter gains for the stationary continuous or discrete time LQG problem - A FORTRAN program
[AD-A137667] 11 p1713 N84-21168
Plasma current and conductivity effects on hose instability
[AD-A137549] 11 p1729 N84-21282
Linearization of an analog fiber-optic system using the quasi-feedforward technique
[AD-A137529] 11 p1731 N84-21294
Fast collisionless tearing in an anisotropic neutral sheet
[NASA-CR-175415] 11 p1737 N84-21331
Electrochemical applications of stabilized zirconia
11 p1740 N84-21353
High-temperature deuterated lubricants: Additives, mechaniams, and methods
[AD-A138114] 12 p1801 N84-21743
Mirror antenna dual-band lightweight mirror design
[AD-A138113] 12 p1806 N84-21776
The construction of a Nd:YAG laser and observation of the output
[AD-A138055] 12 p1820 N84-21860
On the convective properties of the resistive hose instability in an intense relativistic electron beam
[AD-A137527] 12 p1902 N84-22386
Integrated optical signal processing with magnetostatic waves 12 p1907 N84-22420
Analog fiber optics: Pragmatic considerations beyond the textbook
[AD-A137528] 12 p1908 N84-22430
Atomic data calculations for application to the diagnostics of Tokamak plasmas. FY 1982 report
[DE84-006132] 12 p1910 N84-22446
A novel X-ray backlighting method for Rayleigh-Taylor instability measurements on ablatively driven targets
[AD-A138644] 13 p1993 N84-22937
Spectroscopic measurements of the Laser-HANE plasma
[AD-A138685] 13 p1995 N84-22947
Absolutely uniform illumination of laser fusion pellets
[AD-A138944] 13 p1995 N84-22951
Introduction to the Laser-HANE experiment and summary of low-pressure interaction results
[AD-A138945] 13 p1996 N84-22952
Rayleigh-Taylor instability in the presence of a stratified shear layer
[AD-A138544] 13 p2011 N84-23043
Long wavelength limit of interchange instabilities
[AD-A138943] 13 p2011 N84-23047
The electron density and temperature in the photoionized background gas (N2) surrounding a laser produced plasma
[AD-A138651] 13 p2044 N84-23266
High performance composites and adhesives for V/STOL aircraft
[AD-A139168] 14 p2119 N84-23702
Range-Doppler Moving Target Indicator (MTI) analysis and assessment
[AD-A139579] 14 p2141 N84-23836
A circuit design for multiplexed digital correlation at 60 MHz
[AD-A139117] 14 p2142 N84-23842
Study of gain, bandwidth, and tunability of a millimeter-wave free-electron laser operating in the collective regime
[AD-A139285] 14 p2151 N84-23884
A high-gain 35 GHz free-electron laser amplifier experiment
[AD-A139593] 14 p2151 N84-23886
Numerical and analytical studies of beam channel tracking
[AD-A139148] 14 p2222 N84-24332
Two methods for calculating the physical optics field
[AD-A139116] 14 p2224 N84-24347
Optical imaging of a coupling region between inter-streaming plasmas
[AD-A139191] 14 p2224 N84-24348
Long wavelength limit of the current convective instability
[AD-A139172] 14 p2228 N84-24358
Magnetic bubble formation produced by an expanding laser plasma
[AD-A139188] 14 p2228 N84-24359
A transmission line bridge for the diagnostics of plasma channels
[AD-A139286] 14 p2228 N84-24362
Theory of beam channel hydrodynamics
[AD-A139595] 14 p2229 N84-24365
Heavy ions in space (M0001)
15 p2275 N84-24662
Draft standard method of test for plane-strain stress-corrosion-cracking resistance of metallic materials in marine environments
[AD-A139752] 15 p2297 N84-24785
H. F. Frequency management by frequency sharing as assisted by models updated in real-time
[AD-A139896] 15 p2321 N84-24936
The effects of meteorology on marine aerosol and optical and in propagation 15 p2323 N84-24950
Instrumentation requirements for small scale towed temperature measurements
[AD-A139897] 15 p2336 N84-25026
Blast-wave analysis of high-pressure coupling shells
[AD-A139687] 15 p2350 N84-25108
A method to compute the contact force of a body impacting a ring-stiffened cylindrical shell using a lumped parameter finite-difference model
[AD-A139723] 15 p2350 N84-25109
Channel cooling by turbulent convective mixing
[AD-A139724] 15 p2410 N84-25466
REB (Relativistic Electron Beam)/channel tracking experiments in low pressure ammonia
[AD-A140209] 16 p2555 N84-26394
Observation of Rayleigh-Taylor-Like structures in a laser-accelerated foil
[AD-A140294] 16 p2556 N84-26399
Estimating spectral indices from transforms of discrete representations of density functions
[AD-A140164] 16 p2557 N84-26404
MHD (Magnetohydrodynamic) simulation of a comet magnetosphere
[AD-A140208] 16 p2580 N84-26546
The effects of moisture on fracture toughness and thermal relaxation of stretched acrylic plastics
[AD-P003197] 17 p2591 N84-26610
Fluroepoxy and fluroacrylic transparencies
[AD-P003201] 17 p2592 N84-26614
The dual-frequency scatterometer reexamined
17 p2714 N84-27280
An improved dual-frequency technique for the remote sensing of ocean currents and wave spectra
17 p2714 N84-27281
An extreme ultraviolet spectrometer experiment for the Shuttle Get Away Special Program
18 p2801 N84-27778
GC and GC/MS (Gas Chromatography/Mass Spectrometry) analysis protocols
[AD-A141017] 18 p2811 N84-27843
A collective interaction klystron
[AD-A141275] 18 p2834 N84-27991
Computer simulation of the effects of transmission-averaging in microdensitometry
18 p2843 N84-28056
On the linear stability of two-dimensional barium clouds. 1: The inviscid case
[AD-A141284] 18 p2880 N84-28285
Collective ion acceleration by a reflexing electron beam: Model and scaling
[AD-A141241] 18 p2929 N84-28577
Flux diffusion and acceleration in a high current modified betatron
[AD-A141277] 18 p2931 N84-28584
Optical signal processing for surveillance
[AD-A140957] 18 p2932 N84-28591
Plasma discharge chemistry
[AD-A141033] 18 p2932 N84-28596
Influence of microturbulence on early time HANE structure
[AD-A141244] 18 p2933 N84-28597
Poly(ethylene maleate) - cyclopentadiene: A model reactive polymer-vapor system for evaluation of a SAW (Surface Acoustic Wave) microsensor
[AD-A141531] 19 p2999 N84-29001
Comparison of six integrators used in long-term radar integrations
[AD-A141536] 19 p3005 N84-29046
Mechanism of operation and design considerations for surface acoustic wave device vapor sensors
[AD-A141537] 19 p3027 N84-29195
Overview of ultraviolet remote sensing of the ionosphere
[AD-A141533] 19 p3041 N84-29294
A comparative study of linear array synthesis technique using a personal computer
[AD-A141444] 19 p3076 N84-29515
Program PREGA pivotal regression analysis of gamma-ray spectra from NaI(T1) detectors for the ND6620 computer
[AD-A141539] 19 p3077 N84-29520
Influence of collisions on the magnetized ion-ion instability
[AD-A141464] 19 p3101 N84-29696
High current induction accelerators
[AD-A142303] 19 p3102 N84-29703
Quasi-steady state multi-plasma cloud configuration in the ionosphere
[AD-A141532] 19 p3107 N84-29739
Research in dense plasma atomic physics
[AD-A141538] 19 p3107 N84-29740
Advanced concepts theory
[AD-A141568] 19 p3107 N84-29741
A Bumpy Torus betatron
[AD-A141840] 19 p3107 N84-29742
NRC survey on plasma physics and fluids fusion plasma confinement and heating. Chapter 8: Inertial confinement fusion
[AD-A142302] 19 p3107 N84-29744
Satellite orbit theories based on the elimination of the parallax 19 p3118 N84-29819
A high-resolution target-tracking concept using spectral estimation techniques
[AD-A141921] 20 p3173 N84-30149
A computer model for a multiple high PRF pulse Doppler radar
[AD-A142357] 20 p3173 N84-30152
List metric detection of coded FH/MFSK (Frequency-Hopped Multiple Frequency Shift Keying) in a tone jamming environment
[AD-A142358] 20 p3174 N84-30153
Numerical simulations of the structure and propagation of self-sustained detonations
[AD-A142486] 20 p3184 N84-30230
Measurements of high resolution spectra on the Omega laser at Rochester University
[DE84-012419] 20 p3195 N84-30290
The breaking of ocean surface waves
[AD-A142356] 20 p3250 N84-30629
Proton-induced single event upsets in the SBP9989 microprocessor
[AD-A142448] 20 p3266 N84-30724
Proton-induced single event upsets in 71 Earth-satellite environments
[AD-A142435] 20 p3272 N84-30771
Modifications to iterative recursion unfolding algorithms and computer codes to find more appropriate neutron spectra
[AD-A142475] 20 p3273 N84-30775
Measurements of spatially resolved high resolution spectra of laser-produced plasmas
[DE84-012418] 20 p3305 N84-30995

Shock-initiated decomposition of nitramines with laser diagnositcs
[AD-A142820] 21 p3372 N84-31401
Airblast simulations using flux-corrected transport codes
[AD-A142820] 21 p3400 N84-31567
Fatigue crack growth behavior of an oxide dispersion strengthened MA956 alloy
[AD-A142059] 21 p3421 N84-31702
Longitudinal and transverse instabilities in a high current modified betatron electron accelerator
[AD-A142822] 21 p3493 N84-32132
Studies of hydrogenated amorphous silicon
[DE84-011888] 21 p3505 N84-32211
Liquid and solid phase compositions in a partially frozen jP-5 fuel low in n-alkanes
[AD-A143390] 22 p3561 N84-32553
Length distribution of chords through a rectangular volume
[AD-A143302] 22 p3577 N84-32654
Passive line-of-sight stabilization for an infrared sensor
[AD-A143305] 22 p3599 N84-32792
An entropy maximum principle and instantaneous failure statistics
[AD-A143299] 22 p3607 N84-32851
Aerosol measurements at an optical propagation site on the Outer Hebrides
[AD-A143564] 22 p3625 N84-32972
Determination of sea surface temperature with N-ROSS (Navy-Remote Ocean Sensing System)
[AD-A143563] 22 p3627 N84-32984
Angular resolution of coherent and noncoherent sources
[AD-A143287] 22 p3648 N84-33129
Point response functions for unfilled optical arrays
[AD-A143384] 22 p3657 N84-33183
Modified Thomson parabola ion spectrometers for use in laser generated plasma experiments
[AD-A143298] 22 p3658 N84-33190
Influence of magnetic shear on the collisional current driven ion cyclotron instability
[AD-A143391] 22 p3659 N84-33191
An entropy maximum principle and relaxation phenomena
[AD-A143531] 22 p3668 N84-33250
Deep reconditioning testing for near Earth orbits
23 p3738 N84-33689
Millimeter wave radiometric images of the marginal ice zone
23 p3772 N84-33912
Finite temperature effects on the evolution of ionospheric barium clouds in the presence of a conducting background ionosphere
[AD-A143592] 23 p3798 N84-34082
Software for a computer controlled laser Doppler velocimeter
[AD-A143786] 23 p3815 N84-34193
A standard organization for specifying abstract interfaces
[AD-A143787] 23 p3815 N84-34194
Stability of laminar electron layers
[AD-A143788] 23 p3822 N84-34235
The structural chemistry of energetic compounds
[AD-A143955] 23 p3822 N84-34237
Vibrational energy relaxation and dissociation in N2
[AD-A143606] 23 p3827 N84-34276
Electrostatic equations for large scale plasma simulation studies
[AD-A143640] 23 p3828 N84-34277
A users guide to KLYSMA 2: A multifluid transport code
[AD-A143784] 23 p3828 N84-34278
A study of long aerosol initiated laser induced air breakdown plasmas
[AD-A143967] 23 p3828 N84-34279
A proposed technique for creation and detection of hot electron ionization and gain effects in a laser-produced tin plasma
[AD-A144025] 23 p3828 N84-34281
Research studies on magnetohydrodynamic systems and modeling solar dynamical behavior
[AD-A143680] 23 p3844 N84-34389
Theory of vorticity generation by shock wave and flame interactions
[AD-A144432] 24 p3880 N84-34582
Isolated-word speech recognition using multi-section vector quantization code books
[AD-A144433] 24 p3895 N84-34665

NAVAL SEA SYSTEMS COMMAND, WASHINGTON, D.C.

Selection of multiple sources in weapon systems acquisition
[AD-P002837] 13 p2063 N84-23382
Improving system affordability
[AD-A142387] 20 p3318 N84-31062

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER, ANNAPOLIS, MD.

Computer program for performance and sizing analysis of compact counter-flow plate-fin heat exchangers, research and development report
[AD-A129856] 01 p0078 N84-10508
Experimental investigation of tearing-instability phenomena for structural materials
[DE83-900676] 01 p0097 N84-10629
Design, construction and test of a 0.61-meter-diameter, epoxy impregnated superconductive magnet
[AD-A135339] 08 p1226 N84-18009
Effect of electromagnetic stirring on weld pools
[AD-A136718] 10 p1480 N84-19532
Bimetal and multimetal galvanic corrosion prediction using long- and short-term polarization curves
[AD-A139893] 15 p2297 N84-24786
Characterization of organometallic polymers by chromatographic methods and nuclear magnetic resonance, part 2
[PB84-183599] 20 p3165 N84-30100
Friction and wear studies of liquid metal wetted, metallic fiber brushes
[AD-A143473] 22 p3604 N84-32831

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER, BETHESDA, MD.

Optimum forebody shaping for axisymmetric submersibles with turbulent boundary layers and BLO (Boundary Layer Control) afterbodies
[AD-A130950] 01 p0079 N84-10515
Computer center introductory reference manual for CDC 6000
[AD-A130941] 01 p0122 N84-10797
A survey of robotic technology
[AD-A130999] 02 p0269 N84-11762
Robotics: An introduction to today's robot and future trends
[AD-A132070] 03 p0423 N84-12768
Rubber-modified epoxy and glass laminates for application to naval ship structures
[AD-A133305] 06 p0798 N84-15204
Cavitation inception observations on axisymmetric headforms with turbulence stimulators
[AD-A133517] 06 p0844 N84-15506
Interactive mechanisms of sliding-surface bearings
[AD-A133127] 06 p0852 N84-15556
The GPRIME approach to finite element modeling
06 p0859 N84-15594
Generalizing the TRAPRG and TRAPAX finite elements
06 p0859 N84-15596
Finite element analysis of fluid-filled elastic piping systems
06 p0859 N84-15600
Numerical computation of steady state scattered sound external to submerged infinite cylinders by combining finite element and integral equation methods
[AD-A134773] 08 p1227 N84-18020
A calculation of the parabolized Navier-Stokes equations for turbulent axisymmetric flows using streamline coordinates and k-epsilon turbulence model
[AD-A136240] 09 p1313 N84-18582
Economic analysis model program user's manual (Burroughs version)
[AD-A135950] 09 p1405 N84-19182
A time domain analysis of a rigid two-bladed fully gimballed helicopter rotor with circulation control
[AD-A136947] 10 p1422 N84-19296
The evolution of spectral techniques in Navy shock design
10 p1508 N84-19871
Computer generation of plan of action and milestone schedule
[AD-A137057] 10 p1564 N84-20244
Investigation of a pneumatic thrust deflector based on circulation control technology
[AD-A128950] 11 p1652 N84-20784
Cable fire studies using the Ohio State University release rate apparatus
11 p1726 N84-21261
Mechanical face seal technology: A literature survey
[AD-A138434] 12 p1822 N84-21881
NASTEK: Interactive display of NASTRAN-generated plots
[AD-A138831] 13 p2001 N84-22983
Use of helicopters to develop operational concepts for V/STOL (vertical and short takeoff and landing) aircraft in naval missions
[AD-A139354] 14 p2105 N84-23624
Interactive signal synthesis system user's guide
[AD-A139594] 14 p2206 N84-24238
A finite element method for the gas dynamics equations in 2 dimensions and in conservation form
[AD-A139774] 15 p2333 N84-25009
Expanding the permanent file directory on the CDC (Control Data Corporation) NOS/BE (Network Operating System/Batch Environment) operating systems
[AD-A140005] 15 p2418 N84-25519
Rubber to backing bond strength for stave bearings
[AD-A140513] 16 p2499 N84-26033
Mixing-length formulations for turbulent boundary layers over arbitrarily rough surfaces
[AD-A140560] 17 p2667 N84-27009
A model of rotor blade first natural flapping response for up to three/rev excitations
[AD-A141725] 19 p2963 N84-28782
Interactive Signal and Pattern Analysis and Recognition Systems (ISPARS). Users' guide
[AD-A141421] 19 p3075 N84-29514
Program descriptions for Interactive Signal and Pattern Analysis and Recognition System (ISPARS)
[AD-A141575] 19 p3077 N84-29522
Extreme value estimates for arbitrary bandwidth Gaussian processes using the analytic envelope
[AD-A141665] 19 p3086 N84-29591
Surface layer effects on the mechanical behavior of metals
[AD-A142280] 20 p3152 N84-30018
J-integral tearing instability analysis for 8-inch diameter ASTM A106 steel pipe
[AD-A142589] 20 p3153 N84-30023
An integral prediction method for three-dimensional flow separation
[AD-A142551] 20 p3184 N84-30231
Investigation of parameters influencing the deflection of a thick wall jet by a thin wall jet coflowing over a rounded corner
[AD-A142773] 21 p3325 N84-31099
Effect of radial load distribution on the first-harmonic inflow velocity of a helicopter rotor at transition speeds
[AD-A142840] 21 p3325 N84-31100
Finite element prediction of acoustic scattering and radiation from submerged elastic structures
22 p3610 N84-32874
Aerodynamic feasibility for airborne retrieval of a remotely piloted vehicle
[AD-A143695] 23 p3693 N84-33404

NAVAL SUBMARINE MEDICAL CENTER, GROTON, CONN.

Standards for protective goggles for use in the cold
[AD-A137288] 10 p1553 N84-20179

NAVAL SUBMARINE MEDICAL RESEARCH LAB., GROTON, CONN.

The computerization of material safety data sheet information
[AD-A131992] 03 p0459 N84-13021
The stability of visual field measures with repeated testing
[AD-A132704] 05 p0713 N84-14674
Proceedings of the 3rd Tripartite Conference on Submarine Medicine: France, United Kingdom and the United States
[AD-A133150] 06 p0889 N84-15777
Cold weather goggles. 6: Effectiveness of yellow filters
[AD-A136241] 09 p1363 N84-18904
A test of electroluminescent panels for a helicopter emergency escape lighting system
[AD-A139478] 14 p2103 N84-23616
Visual clarity with a black-and-White scene
[AD-A141498] 19 p3065 N84-29445

NAVAL SURFACE WEAPONS CENTER, WHITE OAK, MD.

Investigation of the electrochemical formation of Li-C intercalation compounds
[AD-A130879] 01 p0037 N84-10233
Analysis and synthesis of 1,2,4-butanetriol
[AD-A130875] 01 p0052 N84-10338
High space harmonic perturbations in traveling wave tubes
[AD-A130204] 01 p0070 N84-10458
Further results on the predictions of collapse pressure of a ring stiffened cylindrical shell subject to hydrostatic pressure
[AD-A130877] 01 p0095 N84-10619
Synthesis of energetic materials
[AD-A130974] 02 p0200 N84-11299
Synthesis and properties of trisubstituted trinitrobenzenes. TATB analogs
[AD-A131619] 02 p0203 N84-11322
Microstructural origins of hot spots in RDX explosive and several reference inert materials
[AD-A132056] 03 p0357 N84-12325
Water entry impact shock on flat faced cylindrical missiles
[AD-A131937] 03 p0371 N84-12419
High altitude aerodynamic tests with simulated heat-shield outgassing
[AD-A132078] 04 p0492 N84-13227
Shock induced molecular excitation in solids
[AD-A132236] 04 p0596 N84-13935
Ultrasonic NDE of bonds in multilayered systems
[AD-A133619] 05 p0689 N84-14530
Adaptive signal detection for the optimal communications receiver
[AD-A133498] 06 p0824 N84-15374

An active filter primer
[AD-A134838] 08 p1152 N84-17498
High altitude maneuver control tests in the NSWC (Naval Surface Weapons Center) hypervelocity wind tunnel
[AD-A136105] 09 p1253 N84-18178
Stable response of damped linear systems
10 p1507 N84-19361
Fluid-structure interaction by the method of characteristics 10 p1510 N84-19884
Moisture transport in composites during repair work
[AD-A138658] 13 p1954 N84-22703
Effect of pressure on the static and dynamic acoustic properties of porous rubber
[AD-A138744] 13 p1963 N84-22756
Grit blasting a distributed roughness based on a 30% probability of exceedence
[AD-A138779] 13 p1974 N84-22809
The beam-density effect on energy loss of a relativistic charged particle beam
[AD-A139051] 13 p2041 N84-23241
Synthesis of energetic materials
[AD-A141495] 19 p3001 N84-29021
Testing of candidate batteries for global positioning system 23 p3736 N84-33677
High rate discharge studies of Li/SO2 batteries
23 p3737 N84-33680
Battery Material Symposium
[AD-A143815] 23 p3742 N84-33717
Properties of principal TL (thermoluminescence) dosimeters
[AD-A143635] 23 p3751 N84-33776

NAVAL TRAINING ANALYSIS AND EVALUATION GROUP, ORLANDO, FLA.
The design and production of a procedure training aid using the procedure learning format and the computer automated page layout (PLA) routine
[AD-A139988] 15 p2383 N84-25292

NAVAL TRAINING EQUIPMENT CENTER, ORLANDO, FLA.
Predictor displays as training aids in carrier landings
[AD-A136643] 10 p1433 N84-19367
Part-task training strategies in simulated carrier landing final approach training
[AD-A136670] 10 p1549 N84-20156
Annotated bibliography of human factors laboratory reports (1945-1968): Supplement 4, 1979-1983
[AD-A142141] 19 p3071 N84-29481
Real-time CGSI (Computer Generated Synthesized Imagery)-single pipeline processor
[AD-P003480] 21 p3512 N84-32247
VHSIC (Very High Speed Integrated Circuits) for training systems
[AD-P003484] 21 p3513 N84-32251

NAVAL UNDERWATER SYSTEMS CENTER, NEW LONDON, CONN.
Optimum multisensor, multitarget localization and tracking
[AD-A129605] 01 p0139 N84-10914
FOSS (Fiber Optic Sensor System) FDM (Feasibility Demonstration Model) electrooptical tow cable termination
[AD-A131319] 02 p0294 N84-11925
The effect of noisy reflection data on an inverse method for determining the structure of a layered ocean bottom
[AD-A131976] 03 p0430 N84-12820
Mathematical models of nonlinear galvanic polarization
[AD-A132403] 04 p0589 N84-13895
Exact performance of general second-order processors for Gaussian inputs
[AD-A134098] 05 p0733 N84-14816
Optimum filtering required for broadband detection of Gaussian processes
[AD-A133721] 05 p0735 N84-14823
Accurate efficient evaluation of cumulative or exceedance probability distributions directly from characteristic functions
[AD-A133703] 05 p0740 N84-14858
Sound propagation through a moderate coastal upwelling: Comparison of modeling prediction with experimental data
[AD-A133782] 05 p0742 N84-14876
Propagating plane harmonic waves through finite length plates of variable thickness using finite element techniques 06 p0860 N84-15601
Propagation of flexural and membrane waves with fluid loaded NASTRAN plate and shell elements
06 p0860 N84-15602
High resolution spectrum analysis by dominant mode enhancement 09 p1401 N84-19153
Connecticut ELF (Extremely Low Frequency) field strength measurements, March to May 1978
[AD-A137385] 10 p1479 N84-19666
Connecticut ELF (Extremely Low Frequency) field measurements, May to July 1977
[AD-A137416] 10 p1480 N84-19668
New formulas for HED (Horizontal Electric Dipole), HMD (Horizontal Magnetic Dipole), VED (Vertical Electric Dipole), and VMD (Vertical Magnetic Dipole) subsurface-to-subsurface propagation
[AD-A139030] 13 p2033 N84-23187
New formulas that extend Norton's farfield elementary dipole equations to the quasi-nearfield range
[AD-A139057] 13 p2034 N84-23188
Extension of finitely conducting Earth-Image-Theory results to any range
[AD-A139144] 14 p2139 N84-23827
TRISTEN/FRAM IV arctic ambient noise measurements
[AD-A140656] 17 p2763 N84-27549
Inversion of the acoustic plane wave reflection response of a layered ocean bottom
[AD-A132794] 18 p2928 N84-28570
Detection of randomly occuring signals using spectra and frequency domain kurtosis estimates
[AD-A141461] 19 p3084 N84-29573
High-frequency acoustic backscatter from the sea surface
[AD-A143536] 22 p3652 N84-33152

NAVAL UNDERWATER SYSTEMS CENTER, NEWPORT, R.I.
The fast Fourier transform as a signal processing technique
[AD-A131011] 01 p0133 N84-10872
Numerical methods for singular perturbation problems
[AD-A134696] 08 p1220 N84-17968
Observations of sea surface conditions during WEAP (Weapons Environmental Acoustics Program) experiment, May 1982: An example of real-time monitoring of the upper ocean environment
[AD-A140021] 15 p2374 N84-25241

NAVAL WAR COLL., NEWPORT, R. I.
Operation of communications satellite systems during crisis and conflict
[AD-P002150] 14 p2138 N84-23815
The feasibility, practicality and utility of P-3 inflight refueling
[AD-A143419] 22 p3535 N84-32382
AVCAL (Aviation Consolidated Allowance) restoration program and aircraft material condition
[AD-A144045] 23 p3687 N84-33366
Naval applications for Remotely Piloted Vehicles (RPV's)
[AD-A143826] 23 p3693 N84-33405

NAVAL WEAPONS CENTER, CHINA LAKE, CALIF.
Turbulent mixing and combustion of multi-phase reacting flows in ramjet and ducted rocket environment
[AD-A133802] 05 p0632 N84-14152
Magnetic properties of iron and low-carbon steel for soft magnet application
[AD-A134120] 05 p0653 N84-14292
Avionics concept evaluation at the force level
06 p0769 N84-15038
Navy's advanced aircraft armament system program concept objectives 06 p0770 N84-15045
Polarization diversity combining for reduction of angular scintillation: Probability density function for a Two-Point-Scatterer target
[AD-A135859] 09 p1300 N84-18499
Closed loop adaptive control of a 4.0 gigaHertz reactively steered microstrip array - experimental results
[AD-A137523] 10 p1486 N84-19717
Thermally stable elastomers: A review
[AD-A137914] 11 p1638 N84-20707
Products from the detonation of trinitrotoluene in air and nitrogen
[AD-A137809] 11 p1639 N84-20713
A technique for increasing the optical strength of single-crystal NaCl and KCl through temperature cycling
[AD-A138280] 12 p1820 N84-21867
Analysis of acoustic chamber pressure oscillations in shuttle high-pressure SRB's 13 p1946 N84-22651
Condensed phase temperature profiles in deflagrating HMX 13 p1947 N84-22657
Modeling the self-deflagration of HMX
13 p1951 N84-22682
Detailed flow measurements in fuel-rich, particle-laden plumes 13 p1952 N84-22690
Reactively steered adaptive array (Resaa)
13 p1976 N84-22826
Electrochemical reduction reactions involving formic acid
[AD-A139479] 14 p2123 N84-23721
An evaluation of permanent solder masks for high reliability applications
[AD-A139234] 14 p2134 N84-23787
Aircrew Gliding Escape System (AGES) exploratory development investigation of aircrew emergency escape ram-air inflated, flexible wing
[AD-A139928] 15 p2258 N84-24565
Numerical solution of algebraic matrix Riccati equations
[AD-A139929] 15 p2398 N84-25387
Laser Induced Damage in Optical Materials: 1982
[PB84-175124] 16 p2498 N84-26025
Investigation of acoustic emission during fracture toughness testing of chevron-notched specimens
[AD-A141315] 18 p2814 N84-27865
Analysis of particulates in the exhaust plume of a TF30 engine at military power
[AD-A142510] 20 p3131 N84-29882
Interfacial interaction and adhesion in composite materials 20 p3144 N84-29961

NAVAL WEAPONS ENGINEERING SUPPORT ACTIVITY, WASHINGTON, D. C.
Aircrew Automated Escape Systems (AAES) In-service Usage Data Analyses, volume 1
[AD-A134833] 08 p1100 N84-17154
Aircrew Automated Escape Systems (AAES) In-service Usage Data Analyses, volume 2
[AD-A134834] 08 p1100 N84-17155

NAVAL WEAPONS SUPPORT CENTER, CRANE, IND.
Evaluation program for secondary spacecraft cells. Initial evaluation tests of General Electric Company 4.0 ampere-hour nickel-cadmium spacecraft cells for the AMPTE satellite program
[NASA-CR-173357] 09 p1341 N84-18758
Qualification evaluation tests of 20.0 ampere-hour sealed nickel-cadmium cells
[NASA-CR-173358] 09 p1341 N84-18759
Visible pyrotechnic flare spectroscopy using vidicons
[AD-A140263] 16 p2474 N84-25857
Visible spectra of standard Navy colored flares
[AD-A140342] 16 p2474 N84-25858
Evaluation of aircraft battery charge, discharge, and analyzation requirements for ground support equipment
[AD-A144243] 24 p3897 N84-34678

NAVY EXPERIMENTAL DIVING UNIT, PANAMA CITY, FLA.
Evaluation of a carbon dioxide scrubber in a 2-lock recompression chamber
[AD-A141052] 19 p2969 N84-28816

NAVY PERSONNEL RESEARCH AND DEVELOPMENT CENTER, SAN DIEGO, CALIF.
Methods for improving the user-computer interface
[AD-A132657] 05 p0719 N84-14713
Tailored testing theory and practice: A basic model, normal ogive submodels, and tailored testing algorithms
[AD-A133385] 06 p0897 N84-15824
Guide to the development of a human factors engineering data retrieval system
[AD-A136918] 10 p1554 N84-20187
Decision and display analysis in a simple surveillance problem
[AD-P002886] 13 p1979 N84-22847
Evaluation of eye movement training for Navy pilots
[AD-A139489] 14 p2185 N84-24091
Computer-managed instruction: Individual differences in student performance
[AD-A139708] 15 p2382 N84-25286
Computer-managed instruction: Stability of cognitive components
[AD-A139681] 15 p2383 N84-25291
Microcomputer network for Computerized Adaptive Testing (CAT)
[AD-A140256] 16 p2546 N84-26341
Microcomputer network for Computerized Adaptive Testing (CAT): Program listing. Supplement
[AD-A141569] 19 p3077 N84-29521
Biomagnetism: Possible new predictor of personnel performance
[AD-A142451] 20 p3262 N84-30697
Spatial performance, cognitive representation and cerebral procedures
[AD-A144095] 23 p3811 N84-34163

NAVY UNDERWATER SOUND REFERENCE LAB., ORLANDO, FLA.
Measurement of hydroacoustic particle motion by hot-film anemometry
[AD-A138015] 12 p1901 N84-22383

NDT TECHNOLOGIES, INC., SOUTH WINDSOR, CONN.
Electromagnetic inspection of wire ropes using sensor arrays
[AD-A141164] 18 p2851 N84-28100
Electromagnetic inspection of wire ropes using sensor arrays
[AD-A142012] 20 p3199 N84-30321

NEBRASKA UNIV., LINCOLN.
Satellite observations of variations in southern hemisphere snow cover
[PB83-252908] 04 p0568 N84-13745
New elements for analysis of space frames with tapered members
05 p0695 N84-14561

Entropy production during fatigue as a criterion for failure. The critical entropy threshold: A mathematical model for fatigue
[AD-A134767] 08 p1171 N84-17628
Experimental measurement of material damping using digital test equipment 10 p1514 N84-19913
Turbulent exchange of carbon dioxide, water vapor, heat and momentum over crop surfaces 10 p1538 N84-20079
An angular velocimeter for aerospace applications
[AD-P002682] 11 p1658 N84-20819
Scattering and depolarization of electromagnetic waves-full wave solutions
[AD-A138349] 12 p1807 N84-21782
Bidirectional reflectance modeling of non-homogeneous plant canopies 12 p1830 N84-21932
Improper ferroelectricity: A theoretical and experimental investigation
[AD-A138401] 12 p1898 N84-22362
Scattering and depolarization of electromagnetic waves--full wave solutions
[AD-A139810] 15 p2321 N84-24934
Optimum backscatter cross section of the ocean as measured by synthetic aperture radars 17 p2714 N84-27276
Hyperspherical coordinate theory of 2 electron atomic processes
[DE84-009447] 19 p3102 N84-29705
Inventory of geothermal resources in Nebraska
[DE84-009679] 20 p3229 N84-30518
Absolute photoionization cross sections of atomic oxygen
[NASA-CR-173873] 21 p3492 N84-32130
Optical and electrical properties of organic dye crystals
[DE84-014930] 22 p3666 N84-33240

NEILSEN ENGINEERING AND RESEARCH, INC., MOUNTAIN VIEW, CALIF.
Effects of blowing spanwise from the tips of low-aspect ratio wings of varying taper ratio, with application to improving STOL capability of fighter aircraft
[AD-A135688] 09 p1252 N84-18175
Preliminary method for estimating hinge moments of all-movable controls
[AD-A139726] 15 p2264 N84-24597
Research on topics in perturbation methods, transonic flow theory, numerical analysis and adaptive grid generation
[AD-A143641] 23 p3833 N84-34315

NELSON AND JOHNSON ENGINEERING, INC., BOULDER, COLO.
The historical development and basis of human factors guidelines for automated systems in aeronautical operations
[NASA-CR-166560] 10 p1552 N84-20174

NETHERLANDS COMMITTEE FOR GEOPHYSICS AND SPACE RESEARCH, AMSTERDAM.
Space research in the Netherlands 09 p1407 N84-19194

NETHERLANDS FOUNDATION FOR RADIO ASTRONOMY, DWINGELO.
Correcting radio astronomy interferometry observations for ionospheric refraction 15 p2324 N84-24957

NEVADA UNIV., LAS VEGAS.
An analysis of the annual temperature wave propagating through an alluvial soil
[DEL83-014883] 02 p0219 N84-11434

NEVADA UNIV., RENO.
A preliminary analysis of precipitation in southern Nevada
[DE83-016648] 02 p0256 N84-11678
Growth of epitaxial ice crystals on covellite (CuS) under reduced air pressure 02 p0306 N84-12008
Development of design hyetographs for southern Nevada
[DE84-001227] 04 p0554 N84-13649
Relationships among precipitation, snowmelt, subsurface flow, groundwater recharge and streamflow generation in the Clear Creek watershed, eastern Sierra Nevada
[PB83-253344] 05 p0697 N84-14579
The vapor pressure of Salt-HCl-Water solutions below 0 C
[AD-A141184] 18 p2811 N84-27845
Geologic and hydrologic research on the Moana geothermal system, Washoe County, Nevada
[DE84-012409] 21 p3431 N84-31770
Geochemistry, age and strontium composition of late tertiary and quaternary basalts and andesites in western Nevada and their relation to geothermal potential
[DE84-012404] 21 p3444 N84-31852

NEVADA UNIV. SYSTEM, RENO.
Constant-output atomizer
[NASA-CASE-MFS-25631-1] 03 p0370 N84-12406
Parametric model for peak flow prediction in ungaged ephemeral watersheds
[PB83-249698] 04 p0555 N84-13658

NEW ALCHEMY INST., WOODS HOLE, MASS.
Matching wind turbine rotors and loads: Computational methods for designers
[DE84-006921] 12 p1843 N84-22019

NEW ENGLAND APPAREL MANUFACTURERS' ASSOCIATION, INC., FALL RIVER, MASS.
Manual for implementing a Shared Time Engineering Program (STEP) September 1980 through September 1983
[PB84-144260] 12 p1804 N84-21765

NEW HAMPSHIRE UNIV., DURHAM.
Coronal heating by waves 03 p0466 N84-13068
Acceleration of heavy ions in the solar wind 03 p0474 N84-13118
Plasma jet effects on the ionospheric plasma 05 p0639 N84-14202
Multiple scattering from a random and inhomogeneous slab 06 p0863 N84-15624
Digital analysis of pulse code modulated signals in telecommunications channels 16 p2483 N84-25922
A proportional piezoelectric electropneumatic servovalve design
[AD-A140224] 16 p2499 N84-26031
Alkali-SCl2 chemiluminescence: Vibrational population inversion in the B state of S2
[AD-A143639] 23 p3754 N84-33794

NEW JERSEY INST. OF TECH., NEWARK.
Broadband base isolated asymmetrically fed VHF antenna 06 p0827 N84-15393
Decision rules applied to spread spectrum signal detection
[AD-A144253] 24 p3894 N84-34861

NEW MEXICO INST. OF MINING AND TECHNOLOGY, SOCORRO.
Study of defects produced in tungsten by 800-MeV protons using field-ion microscopy
[DE84-001359] 04 p0613 N84-14048
The transition from an Archean granite-greenstone terrain into a charnockite terrain in southern India 11 p1678 N84-20952
Nighttime observations of thunderstorm electrical activity from a high altitude airplane 24 p3926 N84-34853
Lightning observations from the Space Shuttle 24 p3928 N84-34862

NEW MEXICO STATE UNIV., LAS CRUCES.
Speed-dependent collision effects on radar back-scattering from the ionosphere
[NASA-CR-173077] 03 p0359 N84-12396
The transient response of circular foil heat-flux gages
[DE83-017785] 04 p0538 N84-13541
Mie code AGAUS 82
[AD-A133489] 06 p0918 N84-16964
Spaceborne SAR sensor architecture 07 p0987 N84-16394
Multifrequency synthetic aperture radar antenna comparison study
[NASA-CR-171736] 08 p1143 N84-17434
Cylindrical microstrip array: C-band beacon antenna array with 48 rectangular radiating elements fed in-phase
[AD-A135144] 08 p1144 N84-17442
State-coupled low temperature geothermal resource assessment program, Fiscal Year 1982
[DE84-002640] 10 p1526 N84-19997
Development of a non-volatile programmable digital to analog converter subsystem for PCM (Pulse-Code Modification) telemetry systems
[AD-A137878] 11 p1622 N84-20620
Human factors affecting pilot performance in vertical and translational instrument flight
[AD-A139141] 14 p2187 N84-24105
Temporal albedo variations in Saturn's atmosphere 17 p2776 N84-27627
Eye accommodation, personality, and autonomic balance
[AD-A141499] 19 p3065 N84-29446
Cognitive organization as a function of flying experience
[AD-A141767] 19 p3068 N84-29459
Antenna performance verification at launch site. A feasibility study on preflight performance testing of stripline slot arrays mounted on a rocket
[AD-A143266] 22 p3577 N84-32653

NEW MEXICO UNIV., ALBUQUERQUE.
Analysis of a solar heat pipe heating and absorption cooling system 01 p0076 N84-10496
Heat checking in the contact zone of a face seal: A three-dimensional model of a single moving asperity
[AD-A130756] 01 p0079 N84-10513
Model for the saturation of the hydromagnetic Rayleigh-Taylor instability
[DE83-012629] 01 p0150 N84-10986
Specific surface measurements of shock-modified powders
[DE83-016230] 02 p0196 N84-11275
Theoretical studies of oxygen-iodine laser mechanisms and new laser concepts
[AD-A132374] 04 p0540 N84-13550
The effects of hyperbaric elemental gases on the rate coefficient of K(+) influx in mammalian synaptosomes 04 p0570 N84-13754
Virtual cathode oscillations
[AD-A135120] 08 p1228 N84-18027
Ion beam assisted deposition of SiO2
[AD-A136247] 09 p1278 N84-18342
Least favorable response of inelastic structures
[AD-A136289] 09 p1330 N84-18687
Identification of damage in hysteretic structures
[AD-A136342] 09 p1331 N84-18688
Development of criteria for the use of asphalt-rubber as a Stress-Absorbing Membrane Interlayer (SAMI)
[AD-A137412] 10 p1471 N84-19608
Mathematical models for damageable structures
[AD-A136574] 10 p1572 N84-20298
Primitive meteorites: Where do they come from and how do they form? 11 p1755 N84-21458
Physics of high temperature, dense plasmas
[AD-A138872] 13 p2044 N84-23268
Chronology, morphology and stratigraphy of pumiceous pyroclastic-flow (ignimbrite) deposits from the eruption of Mount St. Helens on 18 May 1983 13 p2080 N84-23476
Classification of volcanoes of the Kane Patera Quadrangle of Io: Proportions of lava flows and pyroclastic flows 13 p2080 N84-23477
A regression model for the temporal development of soil pipes and associated gullies in the alluvial-fill valley of the Rio Puerco, central New Mexico 13 p2084 N84-23502
Investigations of vacuum ultraviolet and soft X-ray lasers
[AD-A140362] 16 p2497 N84-26024
Numerical simulation of a three-dimensional chemical laser flow field including radiation produced by laser induced fluorescence 16 p2498 N84-26026
A high dispersion spectral analysis of three pre-main sequence stars 16 p2576 N84-26532
Photoionization investigation of iodine molecules and clusters in a supersonic molecular beam
[AD-A142645] 20 p3292 N84-30901
An anisotropic lens for launching TEM waves on a conducting circular conical system
[AD-A144140] 24 p3893 N84-34858
Minigrant program. A differential geometric approach to electromagnetic lens design
[AD-A144239] 24 p3950 N84-35013

NEW ORLEANS UNIV., LA.
Zeeman studies of shallow donors and excitons in quantum wells
[AD-A144487] 24 p3967 N84-35121

NEW SOUTH WALES UNIV., KENSINGTON (AUSTRALIA).
Experimental determination of the particle motions associated with the low order acoustic modes in enclosures
[NASA-CR-174542] 02 p0287 N84-11882
Equivalence techniques for vibration testing 10 p1506 N84-19850
An extension of deLeeuw's theorem to the N-dimensional rotation group 22 p3636 N84-33046

NEW SOUTH WALES UNIV., SYDNEY (AUSTRALIA).
The production and evaluation of high-strength optical fibre 19 p3104 N84-29717
The impact of a computerized network on the quality of work life in two college of advanced education libraries in New South Wales 19 p3115 N84-29792

NEW UNIV. OF ULSTER, COLERAINE (NORTHERN IRELAND).
Metal contacts in semiconductors
[AD-A136109] 09 p1396 N84-19120

NEW YORK ACADEMY OF SCIENCES, N. Y.
Proceedings of the 4th International Conference on Physicochemical Hydrodynamics
[DE83-012765] 04 p0537 N84-13532

NEW YORK CITY TECHNICAL COLL., BROOKLYN, N.Y.
Dependence of hydromagnetic energy spectra on interplanetary parameters
[AD-A138745] 13 p2036 N84-23209

NEW YORK SEA GRANT INST., ALBANY.
Great Lakes coastal geology: Stratigraphy and bluff recession along the Lake Erie coast, New York
[PB84-128933] 10 p1538 N84-20075

NEW YORK STATE COLL. OF AGRICULTURE AND LIFE SCIENCES, ITHACA.
Understanding picture-text instructions
[AD-A139746] 15 p2382 N84-25287

NEW YORK STATE DEPT. OF ENVIRONMENTAL CONSERVATION, ALBANY.
Turbulent diffusion behind vehicles: Experiments and verification of roadway models
[PB84-194273] 21 p3326 N84-31101
NEW YORK STATE DEPT. OF HEALTH, ALBANY.
Methane producing bacteria: Immunological characterization 19 p3064 N84-29438
NEW YORK STATE UNIV., BINGHAMTON.
Testability of VLSI (Very Large Scale Integration) leakage faults in CMOS (Complementary Metal Oxide Semiconductor)
[AD-A138978] 13 p2047 N84-23281
NEW YORK UNIV., NEW YORK.
Tornado Wind Energy Conversion System (TWECS) evaluation program
[PB83-227207] 01 p0103 N84-10669
New results for transition probabilities in two-level systems: The large detuning regime
[AD-A131783] 03 p0433 N84-12835
Perception of higher derivatives of visual motion
[AD-A133908] 06 p0888 N84-15773
Theoretical studies relating to the interaction of radiation with matter: Atomic collision processes occurring in the presence of radiation fields
[AD-A134299] 07 p1071 N84-16960
Accuracy of stable schemes for 2D scalar conservation laws
[DE84-004989] 08 p1222 N84-17976
Automatic adaptive grid refinement for the Euler equations
[NASA-CR-173161] 08 p1222 N84-17977
Problems solved and unsolved concerning linear and nonlinear partial differential equations
[DE84-004990] 09 p1379 N84-19008
Relativistic broadening near cyclotron resonance
[AD-A136224] 09 p1391 N84-19084
Neuromagnetic investigation of workload and attention
[AD-A136172] 10 p1548 N84-20147
Preliminary results in implementing a model of the world economy on the CYBER 205: A case of large sparse nonsymmetric linear equations 10 p1561 N84-20228
Kinetic theory of gases, magneto-fluid dynamics and their application
[AD-A137082] 10 p1585 N84-20390
Evaluation of step directions in optimization algorithms
[DE84-006044] 11 p1716 N84-21194
Axisymmetric, non-ideal MHD states with steady flow
[DE84-006045] 11 p1738 N84-21340
Comparing the NYU Ultracomputer with other large-scale parallel processors
[DE84-006043] 12 p1878 N84-22239
Dispersion spectroscopy of optical electron transfer in solution
[AD-A139101] 14 p2121 N84-23713
The coupling of tracked and interior waves in a front tracking scheme
[AD-P002944] 14 p2197 N84-24184
Kinetic theory of gases, magneto-fluid dynamics and their application
[AD-A139616] 15 p2332 N84-25007
Inner-sphere reorganization in optical electron transfer
[AD-A139722] 15 p2405 N84-25435
Annual report on grant AFOSR-80-0228
[AD-A140512] 16 p2550 N84-26365
The method of complex characteristics for design of transonic compressors 17 p2599 N84-26659
A rigid embedding of the closed Friedmann manifold 17 p2757 N84-27502
Neuromagnetic investigation of workload and attention
[AD-A140946] 18 p2900 N84-28394
Gas-liquid correlation of ionization energies
[AD-A141255] 18 p2930 N84-28578
Study of transonic flow over swept wings
[NASA-CR-173799] 19 p2956 N84-28734
Magnetohydrodynamic equilibrium and stability of stellarators
[DE84-010731] 20 p3305 N84-30994
Analysis of three-dimensional transonic compressors
[NASA-CR-166580] 22 p3531 N84-32356
Concurrency control using locks in distributed databases 22 p3670 N84-33262
Solvation and dielectric dispersion in optical electron transfer
[AD-A144183] 24 p3880 N84-34580
NEW YORK UNIV., WESTBURY.
Investigation of aerodynamics of non axisymmetric projectiles
[AD-A139107] 14 p2101 N84-23609
NEW YORK UNIV. MEDICAL CENTER.
Effects of microwaves on cell membrane permeability
[AD-A142979] 21 p3453 N84-31913
NEWCASTLE-UPON-TYNE UNIV. (ENGLAND).
Numerical simulation of stalling flows by an integral equation method 07 p0956 N84-16199
NI-TEC, INC., NILES, ILL.
An introduction to geometric programming
[AD-P002962] 14 p2200 N84-24202
NIEDERSAECHSISCHES LANDESAMT FUER BODENFORSCHUNG, HANNOVER (WEST GERMANY).
Migration of natural gas and resevoir formation in east lower Saxony
[BMFT-FB-T-83-153] 02 p0250 N84-11639
NIELSEN ENGINEERING AND RESEARCH, INC., MOUNTAIN VIEW, CALIF.
Aerodynamic characteristics of missile controls 01 p0014 N84-10092
Triservice program for extending missile aerodynamic data base and prediction program using rational modeling
[AD-A132455] 04 p0481 N84-13166
Determination of optimum fin planform and airfoil section for minimizing fin hinge moment
[AD-A134523] 07 p0948 N84-16151
Prediction of vortex shedding from circular and noncircular bodies in supersonic flow
[NASA-CR-3754] 08 p1096 N84-17129
A study of prediction methods for the high angle-of-attack aerodynamics of straight wings and fighter aircraft
[NASA-CR-3764] 08 p1097 N84-17131
Studies and vorticity effects by the Euler equations with emphasis on supersonic flow fields
[AD-A135118] 08 p1157 N84-17535
Application of a global solar wind/planetary obstacle interaction computational model: Earth, Venus, Mars, Jupiter and Saturn studies
[NASA-CR-173531] 16 p2572 N84-26509
Application of a global solar wind/planetary obstacle interaction computational model: Earth, Venus, Mars, Jupiter and Saturn studies 16 p2572 N84-26510
NIHON UNIV., FUNABASHI (JAPAN).
Logic-type Schmitt circuit using multi-valued gates
[AD-P002353] 14 p2192 N84-24144
NIHON UNIV., TOKYO (JAPAN).
An application of gap regenerator/expander precooled by two stage G-M refrigerator 06 p0819 N84-15337
NIJMEGEN UNIV. (NETHERLANDS).
Crystallization of the membrane protein rhodopsin 23 p3804 N84-34120
NIPPON ELECTRIC CO. LTD., TOKYO (JAPAN).
A case study of spaceborne synthetic aperture radar system design for the Earth Resources Satellite 23 p3782 N84-33987
Some test results of synthetic aperture radar transmitter and receiver 23 p3783 N84-33988
NIPPON TELEGRAPH AND TELEPHONE PUBLIC CORP., TOKYO (JAPAN).
Large scale fire test of cable installed in tunnels 11 p1727 N84-21263
NKF KABEL B.V., WADDINXVEEN (NETHERLANDS).
Computerised optical fibre characterisation 11 p1727 N84-21266
NODA (EDWARD K.) AND ASSOCIATES, HONOLULU, HAWAII.
OTEC (Ocean Thermal Energy Conversion) cold water pipe at-sea test program. Volume 2.F.: Environmental design criteria
[PB83-221127] 01 p0060 N84-10394
Environmental design criteria for the 1/3 scale OTEC cold water pipe at-sea test site off Honolulu, Hawaii
[PB83-221143] 01 p0060 N84-10395
NORD-MICRO ELEKTRONIC FEINMECHANIK G.M.B.H., FRANKFORT (WEST GERMANY).
Development of a digital air data computer using modern microprocessors, hybrid circuits, and pressure sensors with frequency output
[BMFT-FB-W-84-018] 21 p3343 N84-31208
NORDDEUTSCHE MENDE RUNDFUNK K.G., BREMEN (WEST GERMANY).
Super 8 film scanning set by using a CCD-line
[BMFT-FB-T-83-249] 10 p1483 N84-19697
NORDEN SYSTEMS, INC., NORWALK, CONN.
Rebuttal to floating a satellite on microwaves
[AD-P003413] 19 p3016 N84-29117
NORTH AMERICAN AIR DEFENSE COMMAND, PETERSON AFB, COLO.
Reliability in space: Program manager and user awareness
[AD-P002148] 14 p2137 N84-23813
NORTH AMERICAN WEATHER CONSULTANTS, INC., SALT LAKE CITY, UTAH.
Continuing design, review and analysis work for the Sierra Cooperative Pilot Project
[PB84-143627] 11 p1688 N84-21012
NORTH CAROLINA AGRICULTURAL AND TECHNICAL STATE UNIV., GREENSBORO.
Computer aided techniques for crew station design, work-space Organizer-WORG, workstation layout Generator-WOLAG
[AD-A132981] 05 p0716 N84-14693
Refined test methods in evaluating brittle material strengths
[AD-A133596] 06 p0861 N84-15610
Thermal conductivity of ternary and quaternary III-V compounds
[AD-A135336] 08 p1235 N84-18070
Material growth and characterization for solid state devices
[NASA-CR-173265] 10 p1587 N84-20401
Millimeter wave metal-insulator-metal detector/mixer diode
[AD-A138391] 12 p1812 N84-21815
Effect of fatigue and thermal loads on silicon carbon fiber reinforced glass matrix composites
[DE84-007464] 14 p2121 N84-23710
NORTH CAROLINA COLL., DURHAM.
High precision material study at near millimeter wavelengths
[AD-A133575] 06 p0918 N84-15966
NORTH CAROLINA DEPT. OF NATURAL RESOURCES AND COMMUNITY DEVELOPMENT, RALEIGH.
Geologic map and mineral resources summary of the Farner Quadrangle, Tennessee and North Carolina
[DE83-902886] 02 p0240 N84-11578
NORTH CAROLINA STATE UNIV., RALEIGH.
Bond characteristics of epoxy coated reinforced bars
[PB83-205518] 01 p0058 N84-10379
Development of a sweep-frequency electromagnetic exploration method for three-dimensional terrain analysis
[AD-A129607] 01 p0064 N84-10422
Research in numerical linear algebra and numerical methods for large-scale least squares and other problems
[AD-A131400] 02 p0280 N84-11838
Numerical solution of the two-phase, three dimensional boundary layer in laminar film condensation over a curved surface 03 p0375 N84-12442
North Carolina used-motor-oil re-refining program: Economics and logistics and operating results
[DE84-001448] 06 p0810 N84-15277
Use of LANDSAT MSS (multispectral scanner) digital data in water quality mapping of the Neuse River estuary, North Carolina
[PB83-256750] 06 p0867 N84-15645
Effects of high energy radiation on the mechanical properties of epoxy graphite fiber reinforced composites
[NASA-CR-173293] 08 p1122 N84-17292
An analytical study of cylindrical- and spherical-rectangular microstrip antennas 08 p1142 N84-17428
A stochastic network formulation for performance assessment and life-cycle modeling in complex system design
[AD-A135337] 08 p1219 N84-17960
Electronics/electrical manufacturing industry research needs
[PB84-122969] 11 p1648 N84-20774
Model identification and parameter estimation of the power, lift, and drag of light aircraft from a single maneuver 13 p1930 N84-22552
Parametric and nonparametric Fast Kalman echo cancellation 13 p1987 N84-22901
Orthogonal schemes for structural optimization
[AD-P002954] 14 p2199 N84-24194
Fundamental studies of growth, doping and transformation in beta silicon carbide
[AD-A139179] 14 p2241 N84-24458
An evaluation of the directed flow graph methodology
[NASA-CR-173593] 16 p2543 N84-26324
Fundamental studies of growth, doping and transformation in beta silicon carbide
[AD-A140924] 17 p2769 N84-27582
An investigation of resonant optoacoustic cells
[PB83-251637] 18 p2929 N84-28572
Precision digital dilatometry: A microcomputer-based approach to sintering studies
[DE84-009794] 19 p3073 N84-29497
Continental shelf processes affecting the oceanography of the South Atlantic Bight
[DE84-010113] 20 p3251 N84-30635
Study of nonlinear singular systems
[AD-A142348] 20 p3280 N84-30820
Physical properties of CdTe films grown by hotwall and molecular beam techniques
[AD-A143180] 22 p3662 N84-33214
NORTH CAROLINA UNIV., CHAPEL HILL.
Statistical evaluation of the effectiveness of the 1976 version of the FMVSS 301: Fuel system integrity
[PB83-205211] 01 p0164 N84-11075

Analysis of a delayed delta modulator
[AD-A131208] 02 p0282 N84-11845
Weak and strong law results for a function of the spacings
[AD-A130705] 03 p0425 N84-12782
An iterated logarithm law result for extreme values from Gaussian sequences
[AD-A129559] 03 p0427 N84-12798
Asymptotic maximal deviation of m-smoothers
[AD-A131906] 03 p0427 N84-12799
An alternative to the Monte Carlo estimation of network reliability
[AD-A131849] 03 p0427 N84-12800
Research in theoretical physics
[DE83-016622] 03 p0456 N84-13004
Oxygen insufficiency and energy failure in brain: Uncoupling of oxidative phosphorylation at low oxygen concentration 05 p0714 N84-14681
A case grammar approach to error correction in computer programs 05 p0721 N84-14725
The chemistry of transition metal carbene complexes
[AD-A133541] 06 p0801 N84-15225
Moment estimators of defect pattern frequencies, allowing for inspection error
[AD-A133487] 06 p0855 N84-15568
A law of the iterated logarithm for non-parametric regression function estimators
[AD-A133260] 06 p0901 N84-15847
On jackknifing kernel regression function estimators
[AD-A133236] 06 p0904 N84-15867
On the maximum likelihood estimate for logistic errors-in-variables regression models
[AD-A133253] 06 p0904 N84-15868
Estimating critical path and arc probabilities in stochastic activity networks
[AD-A134255] 07 p1067 N84-16925
Capacity of mismatched Gaussian channels
[AD-A134982] 08 p1145 N84-17455
Convergence of quadratic forms in p-stable random variables and theta sub p-radonifying operators
[AD-A135314] 08 p1219 N84-17959
Identification of a class of filtered Poisson processes
[AD-A134970] 08 p1221 N84-17969
Analysis of adaptive differential PCM (Pulse-Code Modulator) of a stationary Gauss-Markov input
[AD-A136518] 09 p1299 N84-18492
The nonlinear filtering problem for the unbounded case
[AD-A136501] 09 p1376 N84-18985
Infinite dimensional stochastic differential equation models for spatially distributed neurons
[AD-A136507] 09 p1376 N84-18986
Research in stochastic processes
[AD-A136222] 09 p1381 N84-19018
Harmonizable stable processes on groups: Spectral, ergodic and interpolation properties
[AD-A136504] 09 p1384 N84-19041
System for producing high-resolution polarized and unpolarized beams with a tandem accelerator
[DE84-004054] 09 p1388 N84-19063
A study of phase transitions
[AD-A136449] 09 p1395 N84-19108
Research in stochastic processes
[AD-A137736] 11 p1717 N84-21202
On the stability of signal detection
[AD-A138525] 12 p1808 N84-21785
Performance in dual tasks
[AD-A138603] 14 p2186 N84-24096
Indicators of hazard for polycyclic organic matter
[PB84-167493] 15 p2288 N84-24730
Estimating network reliability with accelerated convergence rates on error bounds
[AD-A139841] 15 p2397 N84-25383
An estimation problem in faulty inspection sampling, revised
[AD-A141247] 18 p2851 N84-28103
Random rays, geometric acoustics, and the parabolic wave equation
[AD-A141398] 19 p3083 N84-29568
Capacity of generalized mismatched Gaussian channels
[AD-A141399] 19 p3083 N84-29569
A note on average mutual information for spherically invariant processes
[AD-A141401] 19 p3083 N84-29570
Random field satisfying a linear partial differential equation with random forcing term
[AD-A141686] 19 p3088 N84-29606
An exhaustive analysis of multiplicative congruential random number generators with modulus 2(31)-1
[AD-A143085] 21 p3473 N84-32015
Subgroups of continuous groups acting differentiably on the half-line 22 p3634 N84-33028

NORTH CAROLINA UNIV., CHARLOTTE.
Research on shock models, wear processes, replacement and maintenance policies
[AD-A135620] 09 p1382 N84-19028

NORTH CAROLINA UNIV., RALEIGH.
Heterojunction solid-state devices for millimeter-wave sources
[AD-A135389] 08 p1151 N84-17490
The electroplastic effect in metals
[AD-A141526] 19 p2994 N84-28971

NORTH CENTRAL FOREST EXPERIMENT STATION, ST. PAUL, MINN.
Microcomputer scientific software series 1: The numerical information manipulation system
[PB83-263624] 05 p0731 N84-14797
Microcomputer scientific software series 2: General linear model-regression
[PB83-263632] 05 p0731 N84-14798
Microcomputer scientific software series 3: General linear model-analysis of variance
[PB83-263640] 05 p0731 N84-14799

NORTH DAKOTA GEOLOGICAL SURVEY, GRAND FORKS.
Geological and geochemical controls on the chemical evolution of subsurface water in undisturbed and surface-mined landscapes in western North Dakota
[PB84-126952] 08 p1180 N84-17685

NORTH DAKOTA STATE UNIV., FARGO.
Application of Kelgraph to electrochemical detection to flow injection analysis and high performance liquid chromatography
[PB83-226928] 01 p0039 N84-10248
New approaches to the synthesis of novel organosilanes
[AD-A141803] 19 p2985 N84-28913

NORTH DAKOTA UNIV., GRAND FORKS.
Volcanic forms in the Kane Patera region, Io 13 p2073 N84-23437

NORTH DAKOTA WATER RESOURCES RESEARCH INST., FARGO.
Characterization of Kel-F-graphite composite (Kelgraf) electrodes and application to detection in flowing streams
[PB83-224204] 01 p0039 N84-10247

NORTH GEORGIA COLL., DAHLONEGA.
Interfacing a two-stage image intensifier tube to an echelle spectrograph 06 p0929 N84-16035

NORTH TEXAS STATE UNIV., DENTON.
Coherent propagation and sum frequency generation into the vacuum ultraviolet
[AD-A130729] 01 p0066 N84-10428
Phase conjugation in a ring laser cavity
[AD-A131156] 02 p0226 N84-11480
Relationship of characteristics of the research methods used in two subfields of geology and the growth of published research in those subfields 02 p0245 N84-11606
Investigation of nonlinear optical properties of semiconductors
[AD-A139227] 14 p2242 N84-24459
Study of VUV generation by coherent resonant frequency mixing in metal vapors
[AD-A140800] 17 p2663 N84-26989

NORTH WIND POWER CO., INC., MORETOWN, VT.
North Wind 4-kilowatt wind-system development. Phase 1: Design and analysis. Volume 1: Executive summary
[DE83-012278] 01 p0103 N84-10668

NORTHEAST RADIO OBSERVATORY CORP., WESTFORD, MASS. HAYSTACK OBSERVATORY.
Spectral characteristics of the MST radar returns 17 p2685 N84-27094
Parametrization of Fresnel returns in middle-atmosphere radar experiments 17 p2689 N84-27123
Stratosphere and troposphere (S-T) studies at Millstone Hill. Recent results, capabilities and limitations 17 p2691 N84-27137
Data processing techniques used with MST radars: A review 17 p2694 N84-27159
Decoding: Software implementations 17 p2694 N84-27161
A note on the use of coherent integration in periodogram analysis of MST radar signals 17 p2695 N84-27163

NORTHEASTERN UNIV., BOSTON, MASS.
GSE for balloon-borne I.M.S.: Decommutator and D/A units
[AD-A131845] 03 p0377 N84-12452
Factors explaining decisions to terminate or continue an R and D project, executive summary
[PB83-256802] 05 p0758 N84-14971
Factors explaining decisions to terminate or continue an R and D project
[PB83-256594] 05 p0758 N84-14972
Signal encoding and telemetry systems for space vehicles
[AD-A134445] 07 p0963 N84-16244

Asynchronous discrete control of continuous processes
[AD-A135257] 08 p1215 N84-17930
Alloy development, processing and characterization of devitrified titanium base microcrystalline alloys
[AD-A136589] 09 p1282 N84-18374
Dynamical friction in condensed matter
[DE84-004202] 10 p1589 N84-20415
Oscillatory length dependent conductivity in periodic and almost periodic crystals
[DE84-004364] 11 p1745 N84-21384
Dynamical threshold behavior of a sliding charge density wave
[DE84-004304] 11 p1745 N84-21389
Metastable transition metal alloys produced by rapid quenching: Structure and properties
[AD-A138296] 12 p1798 N84-21729
Signal processing circuit development
[AD-A138648] 13 p1982 N84-22870
Theory of exterior and harmonic eigenstrains 16 p2503 N84-26065
Remote data acquisition system
[AD-A143347] 22 p3541 N84-32419

NORTHERN RESEARCH AND ENGINEERING CORP., WOBURN, MASS.
Engineering research on positive displacement gas expanders, phase 1
[DE84-008977] 20 p3198 N84-30310

NORTHROP CORP., HAWTHORNE, CALIF.
Control of advanced fighter aircraft 01 p0014 N84-10089
Application of flight controls technology to engine control systems 03 p0315 N84-12061
Operational readiness and its impact on fighter avionics system design 06 p0768 N84-15037
Towards the functional partitioning of highly integrated, fault tolerant avionics signal processors 06 p0770 N84-15047
Simulation requirements to support the development of a fault tolerant avionic system 06 p0774 N84-15072
Investigation of fatigue crack-growth resistance of aluminum alloys under spectrum loading
[AD-A133206] 06 p0806 N84-15251
Integration of flight test data into a real-time simulation 09 p1259 N84-18216
Fighter aircraft flight control technology design requirements 11 p1619 N84-20597

NORTHROP CORP., NORWOOD, MASS.
Micro-Optic gyro technology
[AD-A130990] 02 p0223 N84-11461

NORTHROP RESEARCH AND TECHNOLOGY CENTER, PALOS VERDES PENINSULA, CALIF.
Scaling studies of efficient Raman converters
[AD-A130382] 01 p0086 N84-10560

NORTHROP SERVICES, INC., RESEARCH TRIANGLE PARK, N. C.
Empirical background calculation method for multi-channel X-ray spectrometers
[PB84-130475] 09 p1319 N84-18618
Dosimetry of ozone and nitrogen dioxide in man and animals
[PB84-195304] 22 p3631 N84-33009

NORTHWEST TELECOMMUNICATION ENGINEERING INST., XIAN (CHINA).
The optimization of GMC over GF(p)
[AD-P002373] 14 p2195 N84-24164

NORTHWESTERN UNIV., EVANSTON, ILL.
Effect of point defects on mechanical properties of metals
[DE83-014989] 01 p0046 N84-10297
Investigation of microstructural changes in ferritic stainless steels caused by high-temperature deformation
[DE83-015331] 01 p0046 N84-10298
Nonlinear stability control
[DE83-014341] 01 p0082 N84-10532
Temperature analysis in lubricated simple sliding rough contacts 01 p0089 N84-10579
Mathematical models for inelastic behavior and cracking of concrete structures 01 p0093 N84-10605
Coherence and turbulence effects on the intensity scintillations at optical frequencies 01 p0146 N84-10960
First passage times in stochastic differential equations of mathematical physics and engineering
[AD-A131705] 03 p0417 N84-12728
Theory of hyperfine anomalies in muonic atoms
[DE83-015392] 03 p0438 N84-12872
The measurement of elastic constants for the determination of stresses by X-rays
[AD-A132330] 04 p0590 N84-13897
Determining stresses in the presence of nonlinearities in interplanar spacing versus Sin squared Psi
[AD-A132365] 04 p0612 N84-14041
Mathematical analysis of digital phase locked loops over fading communication channels 05 p0664 N84-14364

Numerical methods for jointed media and structures
05 p0691 N84-14538
Fracture toughness of fiber reinforced concrete
[AD-A133809] 05 p0692 N84-14547
Theoretical studies on heterogeneous combustion
[DE84-003178] 07 p0971 N84-16289
Chloride ion conductivity in a plasticized quaternary ammonium polymer
[AD-A135373] 08 p1124 N84-17305
Bifurcation and stability theory with application to problems of combustion and flame propagation
[AD-A135383] 08 p1124 N84-17306
Thermocapillary flows and their stability: Effects of surface layers and combination
[NASA-CR-170962] 08 p1155 N84-17522
Plane stress crack-line fields for crack growth in an elastic perfectly-plastic material
[AD-A134868] 08 p1171 N84-17630
Synthesis and chemistry of energetic metallotetrazadienes
[AD-A136269] 09 p1278 N84-18344
Synthesis and properties of elevated temperature P/M aluminum alloys
[AD-A135956] 09 p1283 N84-18379
Mechanics of geomaterials: Rocks, concretes, soils. Preprints, William Prager Symposium
[PB84-112812] 09 p1297 N84-18482
Direct and inverse diffraction problems for QNDE (Quantitative Non-Destructive Evaluation) applications
[AD-A135838] 09 p1327 N84-18668
Efficient finite element methods for transient nonlinear analysis of shells
[AD-A136044] 09 p1333 N84-18701
Markov processes applied to control, replacement, and signal analysis
[AD-A136508] 09 p1382 N84-19023
Yield enhancement by fault tolerant systolic arrays (summary) 09 p1402 N84-19158
Effects of fatigue on the G.P. zones in Al-Zn alloys
[AD-A137518] 10 p1459 N84-19530
Size distribution for G.P. zones in dilute Al-Zn alloys
[AD-A137519] 10 p1459 N84-19531
The stability and dynamics of elastic structures and fluid flows
[AD-A137184] 10 p1491 N84-19750
Lean limit phenomena 11 p1612 N84-20552
Pre-transition phenomena in an iron-nickel alloy prior to the Martensite transformation
11 p1632 N84-20668
On the mechanical and thermoelectric behavior of composition modulated foils 11 p1666 N84-20870
Elastic quarter plane and quarter space boundary value problems 11 p1667 N84-20876
Hidden and embedded structure in linear programs
[AD-A137773] 11 p1707 N84-21125
Microwave sintering of ceramics
[AD-A138402] 12 p1801 N84-21744
The relationship of engineering properties to the molecular structure of polymeric materials: Damage accumulation processes
[AD-A138411] 12 p1801 N84-21745
Plastic deformations near a rapidly propagating crack tip
[AD-A138273] 12 p1826 N84-21907
An approach to control the evolution of software systems 13 p2025 N84-23127
The representation and synthesis of design specifications for distributed software systems
13 p2030 N84-23163
Order-preserving dynamic hashing schemes for associative searching in data base systems
13 p2066 N84-23400
Constitutive models for static and dynamic response of geotechnical materials
[AD-A139293] 14 p2134 N84-23790
The Thirteenth International Symposium on Multiple-Valued Logic
[AD-A136457] 14 p2189 N84-24115
On the number of locations required in the content-addressable memory implementation of multiple-varied functions
[AD-P002338] 14 p2190 N84-24129
Tabular methods for the design of CCD (Charge-Coupled Devices) multiple-valued circuits
[AD-P002347] 14 p2192 N84-24138
A quaternary cellular array complex number multiplier
[AD-P002362] 14 p2193 N84-24153
Relations among system diagnosis models with 3-valued test outcomes
[AD-P002374] 14 p2195 N84-24165
Elastohydrodynamic lubrication of rough surfaces
15 p2315 N84-24896
Micro-elastohydrodynamic lubrication
15 p2341 N84-25053
Stoichiometric CO reduction by supported metal carbonyls
[PB84-175025] 16 p2474 N84-25862
Bounds on network reliability
16 p2552 N84-26371
Failure times and optimal stopping rules of generalized shock models 16 p2552 N84-26372
Functions in first order data bases
16 p2565 N84-26461
Optimization of query processing in distributed databases systems 16 p2567 N84-26474
Numerical radiative transfer in Be disks
16 p2577 N84-26538
The stability and dynamics of elastic structures and fluid flows
[AD-A141206] 18 p2837 N84-28006
Microstructural evaluation of a ferritic stainless steel by small angle neutron scattering
[DE84-009487] 19 p2995 N84-28980
The effect of turbulence on the atmospheric transmittance
[AD-A141133] 19 p3004 N84-29039
Experimental natural convective studies within a compound parabolic concentrator enclosure
[DE84-006967] 19 p3025 N84-29184
An equality which yields zero velocity surfaces
19 p3117 N84-29810
Organic azides as jet fuel additives: Synthesis of azides and micro-explosion characteristics of droplets
20 p3144 N84-29963
Mechanistic studies of catalytic methanol synthesis
[DE84-008380] 21 p3359 N84-31308
Effect of inertia on finite near-tip deformation for fast Mode-3 crack growth
[AD-A142947] 21 p3422 N84-31706
On the mechanics of fatigue crack growth due to contact loading 22 p3608 N84-32859
Defect clusters and electrical properties in transition metal monoxides
[DE84-014851] 22 p3666 N84-33242
Deduction in nonhorn databases
22 p3670 N84-33263
Methodology for software maintenance
[AD-A143763] 23 p3815 N84-34192
Markov processes applied to control, replacement and signal analysis
[AD-A144225] 24 p3953 N84-35034

NORTON AFB BALLISTIC MISSILE OFFICE, CALIF.
The structure of processing resource demands in monitoring automatic systems
[AD-P003319] 18 p2910 N84-28455

NORTON (KENT K.), GARDEN GROVE, CALIF.
Land use planning for sources of nonionizing electromagnetic radiation
[PB84-156363] 17 p2771 N84-27594

NORWEGIAN DEFENCE RESEARCH ESTABLISHMENT, KJELLER.
F-16 Penguin anti-ship missile integration
03 p0315 N84-12059
Preliminary results from the Heating Rocket (HERO) project: In situ measurements of ionospheric modifications using sounding rockets 05 p0636 N84-14183
Ionospheric modification by electron beams. Results from electron accelerator experiments on rockets in Norway 05 p0637 N84-14188
Plasma heating generated by a rocket-borne electron accelerator 05 p0637 N84-14189
A study on the gastrointestinal hormones and the gastric acid secretion during physical stress in man
[NDRE/PUBL-83/1001] 10 p1546 N84-20136
General introduction to the study on the gastrointestinal hormones and the gastric acid secretion during physical stress in man 10 p1546 N84-20137
The effect of physical stress on gastric secretion and pancreatic polypeptide levels in man
10 p1546 N84-20138
Attention, performance, and sustained activation in military air traffic controllers 11 p1698 N84-21076
Modulation of the cholinergic mechanisms in the bronchial smooth muscle
[NDRE/PUBL-84/1001] 21 p3457 N84-31937

NORWEGIAN TELECOMMUNICATIONS ADMINISTRATION RESEARCH ESTABLISHMENT, KJELLER.
Measurements of atmospheric effects on satellite links at very low elevation angle 15 p2323 N84-24948

NORWICH UNIV., NORTHFIELD, VT.
Windows on a future world: Human dimensions of Air Force doctrine in the 21st century
[AD-P003307] 18 p2909 N84-28449

NOTRE DAME UNIV., IND.
Experimental studies of boundary layer transition on a spinning and non-spinning axisymmetric body
01 p0002 N84-10014
Analog fault diagnosis of large-scale electronic circuits
[AD-A133491] 06 p0830 N84-15400
Real-time implementation of a speech digitization algorithm combining time-domain harmonic scaling and adaptive residual coding, volume 1
[AD-A135232] 08 p1150 N84-17485
Real-time implementation of a speech digitization algorithm combining time-domain harmonic scaling and adaptive residual coding, volume 2
[AD-A135233] 08 p1150 N84-17486
An experimental and analytic study of the flow subsonic wind tunnel inlets
[AD-A138865] 13 p1927 N84-22540
The make or buy decision--Its nature and impact
[AD-P002779] 13 p2054 N84-23326
Increasing the Contractor/Subcontractor/Vendor bidding lists
[AD-P002836] 13 p2063 N84-23381
Performance analysis of the word synchronization properties of the outer code in a TDRSS decoder
[NASA-CR-173551] 15 p2319 N84-24921
Cut-off rate calculations for the outer channel in a concatenated cooling system
[NASA-CR-173612] 16 p2541 N84-26312
Fast decoding techniques for extended single-and-double-error-correcting Reed Solomon codes
[NASA-CR-173617] 16 p2543 N84-26325
Incentive contracts and cost growth
[AD-A140930] 18 p2943 N84-28663
Evaluating the availability, role, and performance of subcontractors in the aerospace industry
[AD-A141408] 19 p3114 N84-29788

NOTTINGHAM UNIV. (ENGLAND).
A general method for the evaluation of degree of completeness
[AD-P002354] 14 p2192 N84-24145

NOVA UNIV., DANIA, FLA.
First- and second-phase gravity field solutions based on satellite altimetry
[AD-A142256] 19 p3054 N84-29381
Analysis linking the tensor structure to the least-squares method
[AD-A142159] 19 p3089 N84-29611

NOXSO CORP., PADUCAH, KY.
Adsorbent regenerator
[DE84-012969] 22 p3549 N84-32468

NUCLEAR POWER GROUP LTD., RISLEY (ENGLAND).
The stress analysis of a rotating cylinder experiment to determine crack growth in thick section steel
[DE84-701733] 24 p3913 N84-34778

O

O'DONNELL AND ASSOCIATES, INC., PITTSBURGH, PA.
Development of a simplified procedure for rocket engine thrust chamber life prediction with creep
[NASA-CR-168261] 10 p1450 N84-19472

OAK RIDGE ASSOCIATED UNIVERSITIES, TENN.
International carbon dioxide-related activities: The international organizations involved and US bilateral arrangements
[DE83-016013] 02 p0245 N84-11602
Sensitive collinear laser spectroscopy on fast atom and ion beams
[DE84-003403] 10 p1456 N84-19512
Relationship between global fossil-fuel comsumption and the concentration of carbon dioxide in the atmosphere, part 1
[PB84-123413] 10 p1532 N84-20036
Relationship between global fossil-fuel consumption and the concentration of carbon dioxide in the atmosphere, part 2
[PB84-138841] 11 p1683 N84-20985
Changing pattern of carbon dioxide emissions
[DE84-010086] 19 p3052 N84-29371
Guide to computer-based training
[DE84-012244] 21 p3466 N84-31975

OAK RIDGE GASEOUS DIFFUSION PLANT, TENN.
Numerical studies of the isotope distribution in a gas centrifuge using a tapered, double-parabolic axial flow
[DE83-013011] 01 p0081 N84-10528
A gas-flow tracing technique applicable to rotating systems boundary layer on a rotating disk
[DE83-012761] 03 p0372 N84-12425
Practical computation of multidimensional thermal flows in a gas centrifuge
[DE83-005697] 03 p0372 N84-12426
ANALYSIS/PLOT: A graphics package for use with the SORT/ANALYSIS data bases
[DE83-017886] 04 p0583 N84-13847
Management information system for engineering
[DE84-001655] 05 p0760 N84-14984
Diode laser spectrophotometry for monitoring acetylene on-line in a liquefaction plant
[DE84-002117] 06 p0851 N84-15548

Computer-Output Microfiche (COM) on the Oak Ridge computer network
[DE84-002422] 06 p0899 N84-15836
Remarks on the axial flow taper in a countercurrent gas centrifuge
[DE84-002931] 07 p1003 N84-16506
Perturbation solution for gas flow in a tapered rotor
[DE84-002930] 07 p1003 N84-16507
ARIES: A computer program for the solution of first kind integral equations with noisy data
[DE84-003908] 07 p1056 N84-16838
Finite element simulation of viscous incompressible flows
[DE84-004355] 10 p1494 N84-19769
Remote thermometry of moving surfaces by laser-induced fluorescence of surface-bonded phosphor
[DE84-004264] 10 p1498 N84-19792
Technique for modal data acquisition in remote locations using hand portable instrumentation
[DE84-005755] 12 p1819 N84-21854
Aspects of electroless nickel plating on molybdenum
[DE84-006434] 20 p3158 N84-30057
Determination of evaporation rates of organic solvents by thin-film evaporometer
[DE84-012308] 21 p3360 N84-31313
Ekman boundary conditions for numerical models of centrifuge flows
[DE84-013576] 22 p3595 N84-32765

OAK RIDGE NATIONAL LAB., TENN.

Composition gradients in electrolyzed LiCl-KCl melts
[DE83-012347] 01 p0037 N84-10237
Positron spectroscopy applied to the analysis of surfaces
[DE82-008836] 01 p0038 N84-10238
Carbon in live vegetation of major world ecosystems
[DE83-015328] 01 p0101 N84-10654
Effects of acid precipitation and natural processes on cation leaching from 4 diverse forest ecosystems
[DE83-015759] 01 p0103 N84-10671
Nonparametric estimation of the distribution of time to onset for specific diseases in survival/sacrifice experiments
[DE83-013726] 01 p0112 N84-10728
The relevance of experimental animal studies to the human experience
[DE83-014053] 01 p0112 N84-10729
Intercomparison of stable-element content of foods by statistical methods
[DE83-014029] 01 p0118 N84-10764
Survey of error propagation in systems
[DE83-009817] 01 p0134 N84-10878
KWIC index for numerical linear algebra
[DE83-014889] 01 p0135 N84-10882
Optimization of next-event estimation probability in Monte Carlo shielding calculations
[DE83-012643] 01 p0137 N84-10900
Coulomb explosion and recent methods for studying molecular decomposition
[DE83-012348] 01 p0142 N84-10933
Heavy-ion reaction mechanisms studied with the spin spectrometer
[DE83-015716] 01 p0144 N84-10950
Calculations of Channeling in Semiconductor Superlattices
[DE83-012040] 01 p0154 N84-11011
Microstructure and properties of TiB2 implanted with 1-MeV nickel
[DE83-014020] 01 p0154 N84-11012
Dopant incorporation during nonequilibrium solidification
[DE83-014052] 01 p0154 N84-11014
Proceedings of the 1982 Integrated Data Users Workshop
[DE83-014761] 01 p0162 N84-11066
Catalog of the Oak Ridge National Laboratory Meteorological Tape Library
[DE83-017493] 01 p0162 N84-11067
Sodium-sulfate solubilities in high-temperature (250 to 3740C) salt and acid solutions
[DE83-015813] 02 p0191 N84-11241
Development of modified 9 Cr-1 Mo steel
[DE83-003450] 02 p0194 N84-11262
Tensile behavior of three commercial ferritic steels after low-temperature irradiation
[DE83-014044] 02 p0195 N84-11264
Structure-property relationships in ion-implanted ceramics
[DE83-015505] 02 p0202 N84-11313
Immobilized chloroplast-ferredoxin-hydrogenase system for the simultaneous photoproduction of hydrogen and oxygen
[DE83-015703] 02 p0205 N84-11333
Vertical concentric-tube ground-coupled heat exchangers
[DE83-014003] 02 p0219 N84-11435
Simultaneous heat and mass transfer in absorption of gases in turbulent liquid films
[DE83-016394] 02 p0220 N84-11445
Response of installed temperature sensors
[DE83-015509] 02 p0224 N84-11471
Efficiency terms for Stirling-engine systems
[DE83-014670] 02 p0229 N84-11505
Role of the oceans in the carbon cycle
[DE83-015530] 02 p0258 N84-11688
Calculations of radiation fields and monkey mid-head and mid-thorax responses in AFRRI-TRIGA reactor facility experiments
[DE83-015483] 02 p0264 N84-11741
Accuracy of external personnel dosimetry systems in mixed neutron and gamma radiation fields
[DE83-015712] 02 p0266 N84-11751
Microprocessor multi-task monitor
[DE83-012590] 02 p0270 N84-11769
Parallel processor for fast event analysis
[DE83-014050] 02 p0271 N84-11770
Solution of sparse underdetermined systems of linear equations
[DE83-016460] 02 p0283 N84-11853
Neoclassical transport in a multiple-helicity torsatron in the low-collisionality regime: Strong radial electric-field limit
[DE83-016463] 02 p0296 N84-11941
Dielectronic recombination: An introduction
[DE83-015738] 02 p0296 N84-11942
Review of Stirling-engine mathematical models
[DE83-016454] 02 p0301 N84-11974
Overview of state-of-the-art flywheel technology
03 p0344 N84-12231
Radiation damage and phase instability in irradiated stainless steel
[DE83-017190] 03 p0354 N84-12303
Comparison of damage microstructures in neutron-irradiated vanadium and iron
[DE83-017189] 03 p0354 N84-12304
Isotope dependence of the breakdown strength of gases
[DE83-017272] 03 p0373 N84-12430
Dynamic analysis of the fluidyne
[DE83-017283] 03 p0384 N84-12500
Effects of pressure-drop correlations on Stirling-engine predicted performance
[DE83-017279] 03 p0384 N84-12501
Electron-microscope observation of crack propagation and a dislocation model of fracture
[DE83-014623] 03 p0389 N84-12540
Creep and tensile properties of alloy 800H-Hastelloy X weldments
[DE83-017067] 03 p0390 N84-12542
Inventory of numeric data for carbon dioxide research
[DE83-017571] 03 p0406 N84-12657
Comments on ISO/TC 97/SC 18/WG3 N120
[DE83-011391] 03 p0420 N84-12748
Using PAFEC as a preprocessor for COSMIC/NASTRAN
[DE83-017179] 03 p0421 N84-12755
Why didn't Box-Jenkins win (again)?
[DE83-014043] 03 p0427 N84-12802
Implications of heavy-ion-induced satellite X-ray emission. 1: Introduction
[DE83-015682] 03 p0435 N84-12851
Electron-molecule interactions in gases and liquids: The electron-attachment process in gases and nonpolar liquids
[DE83-017205] 03 p0436 N84-12863
Electron-ion collisions
[DE83-017211] 03 p0437 N84-12867
Theoretical aspects of throat-launch microwave heating in EBT-S
[DE83-015762] 03 p0438 N84-12875
PATRAM '83: 7th International Symposium on Packaging and Transportation of Radioactive Materials, summaries
[DE83-012390] 03 p0439 N84-12881
Generation of monoenergetic positrons
[DE83-015535] 03 p0440 N84-12887
Design of the Advanced Toroidal Facility (ATF-1)
[DE83-012641] 03 p0445 N84-12923
Detailed modeling of microwave energy deposition in EBT devices
[DE83-017496] 03 p0449 N84-12952
Monte Carlo calculations of neutron and gamma-ray energy spectra for fusion-reactor shield design: Comparison with experiment
[DE83-016932] 03 p0449 N84-12956
Electron-cyclotron-heating experiments in Tokamaks and stellarators
[DE83-017210] 03 p0450 N84-12958
Propagation and absorption of electromagnetic waves in fully relativistic plasmas
[DE83-017246] 03 p0450 N84-12959
Effect of magnetic bending on the high-frequency stability of the ELMO Bumpy Torus
[DE83-017177] 03 p0450 N84-12961
Hydrogen in MgO crystals thermochemically reduced at very high temperatures
[DE83-014058] 03 p0453 N84-12981
Implications of heavy-ion-induced satellite X-ray emission. Part 2: Production of K and L X-rays by 0.9 to 2.6 MeV/u Ar ions in thick targets of V, Cu, Nb, Ta, and Pt
[DE83-015681] 03 p0453 N84-12982
Transient heat transfer in superfluid helium, part 2
[DE83-015767] 03 p0453 N84-12984
Superconductor stability, 1983: A review
[DE83-015506] 03 p0454 N84-12990
Superconducting stability, 1983: A review
[DE83-017262] 03 p0455 N84-12995
Two types of values and their assessment by the collective interest
[DE83-012064] 03 p0460 N84-13031
In-situ photoacoustic spectrometry for corrosion studies
[DE84-001994] 04 p0496 N84-13254
Effect of phosphorus on the swelling and precipitation behavior of austenitic stainless steels during irradiation
[DE84-000412] 04 p0499 N84-13275
Effect of implanted helium on the microstructure and creep properties of ordered (FeO.49 NiO.51) V-3 alloys
[DE84-000691] 04 p0500 N84-13278
Modeling binary-alloy solidification processes: Numerical implementation
[DE84-001587] 04 p0501 N84-13284
Microstructure of 9 Cr-1 MoVNb steel irradiated to 40 dpa at elevated temperatures in HFIR
[DE84-000339] 04 p0501 N84-13285
Electrochemical etching of titanium-alloy castings
[DE84-000244] 04 p0501 N84-13286
Oxidation of Inconel alloy MA754 at low oxidation potential
[DE83-017191] 04 p0501 N84-13288
Mass transfer behavior of a modified austenitic stainless steel in lithium
[DE84-000338] 04 p0502 N84-13293
A comparison of the irradiated tensile properties of a high-manganese austenitic steel and type 316 stainless steel
[DE84-000260] 04 p0502 N84-13294
Diffusivities of hydrogen in yttrium and yttrium alloys
[DE84-000411] 04 p0503 N84-13298
Low-cycle fatigue behavior of oxygen-free high-conductivity copper at 300C in high vacuum
[DE84-000725] 04 p0504 N84-13305
Segregation and domain structure in rapidly solidified Ni3Al
[DE83-017188] 04 p0504 N84-13306
Models of simultaneous heat and moisture transfer in soils
[DE84-001580] 04 p0534 N84-13513
Oak Ridge heat-pump models. Part 1. A steady-state computer design model for air-to-air heat pumps
[DE84-001577] 04 p0535 N84-13519
Performance test results of an absorption heat pump which is designed to utilize low-temperature 600C (1400F) industrial waste heat
[DE83-017194] 04 p0537 N84-13533
Stirling engine patents: International patent inventory
[DE84-002378] 04 p0545 N84-13592
Solution of groundwater-flow equations using an orthogonal finite-element scheme
[DE84-000690] 04 p0554 N84-13648
Update of pulsed-laser processing technology for high-efficiency silicon solar cells
[DE84-000638] 04 p0559 N84-13684
Calibration of laboratory bioassays with results from microcosms and ponds
[DE83-017224] 04 p0560 N84-13692
Atmospheric retention of anthropogenic CO2: Scenario dependence of the airborne fraction
[DE83-016854] 04 p0565 N84-13723
Nuclear-medicine
[DE84-000346] 04 p0571 N84-13759
Chemical and physical characterization of the activation of ribulosebiphosphate carboxylase/oxygenase
[DE83-017226] 04 p0571 N84-13764
Short introduction to office applications of markup language
[DE83-011400] 04 p0582 N84-13844
Analysis-plot generation code with significance levels computed using Kolmogorov-Smirnov statistics valid for both large and small samples
[DE84-001581] 04 p0592 N84-13907
Algorithm for computing significance levels using the Kolmogorov-Smirnov statistic and valid for both large and small samples
[DE84-001586] 04 p0592 N84-13909

Ambipolarity and transport with resonant ion diffusion in EBT
[DE84-000333] 04 p0606 N84-14000

Experimental results on finite-beta limits and transport in the ISX-B Tokamak
[DE84-000258] 04 p0606 N84-14001

A practical sublimation source for large-scale chromium gettering in fusion devices
[DE84-000724] 04 p0606 N84-14002

Ion-beam surface analysis in plasma-edge studies
[DE84-001578] 04 p0607 N84-14004

Inverse plasma equilibria
[DE84-000723] 04 p0607 N84-14008

Electron-drift velocity and ionization and attachment coefficients in gases/mixtures for diffuse-discharge opening switches
[DE83-017206] 04 p0609 N84-14017

Background information and technical basis for assessment of environmental implications of magnetic fusion energy
[DE83-018300] 04 p0611 N84-14030

Solid-State Division
[DE84-000296] 04 p0613 N84-14045

Neutron-scattering studies of magnetic superconductors
[DE84-000393] 04 p0614 N84-14054

Standard format for data films
[DE84-000345] 04 p0616 N84-14068

Matrix-isolation photoacoustic spectroscopy
[DE84-001967] 05 p0651 N84-14277

Mechanical-property characterization of an electroslag-cast valve body of CF8M composition
[DE84-002253] 05 p0655 N84-14309

Solidification and phase stability in austenitic stainless steels
[DE84-001937] 05 p0656 N84-14312

Transport properties of polycrystalline Ni3Al
[DE84-001969] 05 p0656 N84-14313

Apparent thermal conductivity measurements by an unguarded technique
[DE84-001964] 05 p0685 N84-14503

Indirect processes in electron-ion scattering
[DE84-002381] 05 p0745 N84-14897

Metals and ceramics research: Processing, properties, and applications
[ORNL-5943] 06 p0796 N84-15187

Effects of pulsed dual-ion irradiation on phase transformations and microstructure in Ti-modified austenitic alloy
[DE84-001985] 06 p0807 N84-15257

Stirling engines with controlled evaporation of a two-phase two-component working fluid
[DE83-017284] 06 p0853 N84-15560

Using PAFEC as a preprocessor for COSMIC/NASTRAN 06 p0858 N84-15593

Methodology for the objective validation of model performance, with an application to atmospheric transport models
[DE83-015693] 06 p0875 N84-15693

Robotics-related technology in the nuclear industry
[DE83-017131] 06 p0893 N84-15799

Sparse Matrix Software Catalog
[AD-A133559] 06 p0898 N84-15830

Assessment of Fisher and logistic linear quadratic discrimation models
[ORNL/CSD-TM-200] 06 p0904 N84-15865

Equilibrium studies for low-aspect-ratio torsatrons
[DE84-002264] 06 p0920 N84-15979

Radial structure of curvature-driven instabilities in hot-electron plasma
[DE84-002256] 06 p0921 N84-15986

Raman measurements of the mobile cation vibrations in Na, K, Ag and Li (ALPHA)'-alumina
[DE83-015697] 06 p0924 N84-16005

Mechanical properties of types 304 and 316 stainless steel after long-term aging and exposure
[DE84-003325] 07 p0976 N84-16327

Creep properties of modified 9 Cr-1 Mo steel
[DE84-003174] 07 p0976 N84-16328

Swelling behavior of a simple ferritic alloy
[DE84-003162] 07 p0976 N84-16329

Characterization and analysis of cavity development during creep of ceramics at elevated temperature
[DE84-003113] 07 p0979 N84-16345

Transformation toughened and whisker reinforced ceramics
[DE84-003281] 07 p0979 N84-16346

Influence of cation stoichiometry on the electrical conductivity and high-temperature stability of MgO:Al/sub 2O/sub 3 spinel
[DE84-003305] 07 p0980 N84-16348

Research opportunities in salt hydrates for thermal energy storage
[DE84-002977] 07 p1026 N84-16650

Normalized emittance of SITEX negative ion source
[DE84-003285] 07 p1072 N84-16967

Studies in RF emission and absorption in EBT plasmas
[DE84-002118] 07 p1076 N84-16996

Engineering aspects of disruption current decay
[DE84-002995] 07 p1076 N84-16998

Steepest descent moment method for three-dimensional magnetohydrodynamic equilibria
[DE84-002993] 07 p1076 N84-16999

Numerical simulation of the plasma current quench following a disruptive energy loss
[DE84-003151] 07 p1077 N84-17004

Characterization of the TEXTOR plasma edge using deposition probe techniques
[DE84-003308] 07 p1078 N84-17011

Hydration of (BETA)-prime-prime-alumina
[DE83-015686] 07 p1083 N84-17041

Reliability and maintainability data acquisition in equipment development tests
[DE84-002994] 07 p1084 N84-17051

Comparison of the characteristics of graphites irradiated at 600 and 9000 deg C
[DE83-015695] 08 p1123 N84-17297

Improved swelling resistance for PCA austenitic stainless steel under HFIR irradiation through microstructural control
[DE84-003203] 08 p1133 N84-17370

Development of modified 9 Cr-1 Mo steel for elevated-temperature service
[DE84-003161] 08 p1133 N84-17372

Temperature aspects of pulsed ion bombardment in an austenitic alloy
[DE84-003382] 08 p1134 N84-17376

Effect of specimen size and nickel content on the impact properties of 12 Cr-1 MoVW ferritic steel
[DE84-003270] 08 p1134 N84-17377

Ion beam modification of ceramics
[DE84-003302] 08 p1138 N84-17403

Diesel fuel extenders and substitutes
[DE84-003402] 08 p1167 N84-17597

Conductivity mapping of underground flow channels and moisture anomalies in carbonate terrain using electromagnetic methods
[DE84-004098] 08 p1178 N84-17677

Estimation of small area populatons using remote sensing and other approaches
[DE84-003404] 08 p1178 N84-17678

Atmospheric deposition to forests
[DE84-003384] 08 p1182 N84-17700

Chemical and biological processes in CO/sub 2-ocean models
[DE84-003304] 08 p1182 N84-17702

Can we delay a greenhouse warming
[DE84-003390] 08 p1183 N84-17703

Torsional ultrasonic technique for reactor vessel liquid level measurement
[DE84-003357] 08 p1228 N84-18024

Two-level compromise designs for estimating main effects and detecting interactions
[DE84-002997] 08 p1238 N84-18094

Guide to the bibliographic format used by the Carbon Dioxide Information Center
[DE84-004109] 09 p1280 N84-18361

Mechanical properties of a modified 2 1/4 Cr-1 Mo steel for pressure vessel applications
[DE84-004105] 09 p1285 N84-18394

Status, needs, and opportunities for structural ceramics in advanced heat engines
[DE84-003307] 09 p1289 N84-18413

Electron spin resonance study of thermal instability reactions in jet fuels
[NASA-CR-168333] 09 p1289 N84-18418

Chemical reactions possibly useful for low temperature thermal energy storage
[DE84-004126] 09 p1342 N84-18763

Fourier-Motzkin elimination as a technique for error localization
[DE84-003309] 09 p1379 N84-19009

ATF-1 torsatron studies
[DE84-003314] 09 p1392 N84-19089

Proceedings of the Advanced Bumpy Torus Concepts Workshop
[DE84-002406] 09 p1392 N84-19091

Ceramic coatings for heat engine materials: Status and future needs
[DE84-003401] 10 p1468 N84-19590

Evaluations of the Irwin (ALPHA) sub Ic adjustment for small specimen fracture toughness data
[DE84-003292] 10 p1518 N84-19936

Space reactor shielding: An assessment of the technology
[DE84-003319] 10 p1577 N84-20335

Tokamak plasma position dynamics and feedback control
[DE84-004424] 10 p1586 N84-20393

Algorithm to calculate proportional area transformation factors for digital geographic databases
[DE84-004456] 10 p1593 N84-20440

Typographical terminology
[DE84-001981] 10 p1593 N84-20441

Comparison of field performance of a high efficiency heat pump with and without a desuperheater water heater
[DE84-005816] 11 p1653 N84-20795

FORAST: A regional scale study of forest responses to air pollutants
[DE84-003269] 11 p1675 N84-20933

MAPPER user's manual
[DE84-003478] 11 p1708 N84-21133

Graphics specification for graphical requirements for computer-aided control system design
[DE84-004367] 11 p1708 N84-21135

ORNL trends and balances, 1984-1989
[DE84-006320] 11 p1746 N84-21397

Open systems interconnection for the defence community 11 p1750 N84-21426

Carbon cycle research plan
[DE84-006221] 12 p1861 N84-22124

Human factors in remote control engineering development activities
[DE84-003201] 12 p1868 N84-22176

Inductive current startup in large Tokamaks with expanding minor radius and RF assist
[DE84-006683] 12 p1911 N84-22450

High resolution ultrasonic densitometer
[DE84-003387] 13 p1994 N84-22939

Options for an ignited tokamak
[DE84-007927] 13 p2045 N84-23272

Evaluation of arctic test of tritium radioluminescent lighting
[AD-A139176] 14 p2104 N84-23619

Photosynthetic water splitting, phase 1
[DE84-006847] 14 p2124 N84-23729

Orthogonal schemes for structural optimization
[AD-P002954] 14 p2199 N84-24194

Overview of DOE-sponsored heat pump research
[DE84-007561] 15 p2333 N84-25011

Theoretical analysis of a kinematic Stirling-cycle heat pump for space conditioning applications
[DE84-010240] 15 p2344 N84-25072

Dislocation shielding model of fracture toughness
[DE84-007539] 15 p2351 N84-25111

Joint hearing on carbon dioxide and the greenhouse effect. Testimony presented to Subcommittee on Natural Resources, Agriculture Research and Environment and Subcommittee on Investigations and Oversight of the Science and Technology Committee, US House of Representatives
[DE84-007527] 15 p2372 N84-25230

FLOCHT: A system of FORTRAN codes for computer drawn flow charts and diagrams
[DE84-007569] 15 p2393 N84-25362

Conversational eigenanalysis program for solving differential equations
[DE84-007560] 15 p2399 N84-25397

Updating LU factorizations for computing stationary distributions
[DE84-007566] 15 p2400 N84-25402

Recent progress on ATF
[DE84-007523] 15 p2411 N84-25476

Theoretical study of neutron scattering cross sections in semiconductors
[DE84-007540] 15 p2415 N84-25498

Modeling binary alloy solidification processes
[ORNL/CSD-117] 16 p2464 N84-25790

An annotated bibliography covering generation and use of evaluated cross section uncertainty files
[BNL-NCS-51684] 16 p2566 N84-26465

Developments in open tubular liquid chromatography
[DE84-010585] 18 p2812 N84-27853

Capillary zone electrophoresis: Instrumentation and use with nonaqueous solvents
[DE84-010617] 18 p2812 N84-27854

Metallographic examinations of type 304 stainless steel (heat 9T2796) tested in high-temperature uniaxial and multiaxial experiments
[DE84-010637] 18 p2814 N84-27866

Liquid metal corrosion considerations in alloy development
[DE84-008512] 18 p2815 N84-27868

Advancement of remote technology: Past perspectives and future plans
[DE84-008517] 18 p2849 N84-28092

Experimental stress analysis and fatigue tests of five 12-in NPS ANSI Standard B169 tees
[DE84-010280] 18 p2853 N84-28117

Impact of vegetative hydrocarbon emissions on ambient ozone levels and control program development
[DE84-008515] 18 p2878 N84-28273

Regression methods for binomial and Poisson distributed data
[DE84-009714] 18 p2927 N84-28564
Baryon distribution in relativistic heavy-ion collisions
[DE84-008509] 18 p2930 N84-28581
Equilibrium calculations for helical axis stellarators
[DE84-010636] 18 p2933 N84-28598
Nonlinear interaction of tearing modes: A comparison between the Tokamak and the reversed field pinch configurations
[DE84-010582] 18 p2934 N84-28606
Nonequilibrium crystal growth during laser annealing of silicon 18 p2939 N84-28639
Band structure effects in the electronic properties of solids assessible in neutron scattering studies
[DE84-008557] 18 p2941 N84-28654
Direct measurement of a VUV transition oscillator strength in xenon
[DE84-008555] 18 p2941 N84-28655
Utilization of amorphous metals in electric motors. Power systems technology program
[DE84-009483] 19 p3018 N84-29136
ORNL research programs on refrigeration systems, ECUT materials and tribology
[DE84-007542] 19 p3032 N84-29232
Problem definition study on emission by-product hazards from diesel engines for confined space Army workplaces
[AD-A141377] 19 p3052 N84-29367
Engineering scoping study of the production of hydrogen and oxygen from the cerium oxide-sodium phosphate/carbonate thermochemical cycle
[DE84-010629] 20 p3150 N84-29998
Resonance ionization spectroscopy of argon, krypton and xenon using vacuum ultraviolet light
[DE84-011655] 20 p3150 N84-30006
Sulfur and antimony segregation to creep cavity surfaces in Ni and an FCC Fe-Ni-Cr alloy
[DE84-011458] 20 p3154 N84-30028
High-temperature alloys: Theory and design
[DE84-010428] 20 p3154 N84-30029
Ion implantation, ion beam mixing and annealing studies of metals in Al2O3, SiC and Si3N4
[DE84-012336] 20 p3157 N84-30052
Nuclear electromagnetic pulse (EMP) and electric power systems
[DE84-010665] 20 p3175 N84-30166
Negative ion formation in SF6 spark by-products
[DE84-012340] 20 p3181 N84-30212
Advanced teleoperation in nuclear applications: Consolidated fuel reprocessing program
[DE84-011631] 20 p3197 N84-30303
Advancement of remote systems technology: Past perspectives and future plans
[DE84-011460] 20 p3198 N84-30309
Automated planning for intelligent machines in energy-related applications
[DE84-011666] 20 p3279 N84-30815
Invention of a tunable damper for use with an acoustic waveguide in hostile environments
[DE84-013109] 20 p3292 N84-30897
Introduction to neutron scattering by magnetic excitations
[DE84-008579] 20 p3293 N84-30904
Role of trench caps in the shallow land burial of low level wastes
[DE84-011824] 20 p3298 N84-30944
Information Center Complex publications and presentations, 1971-1982
[DE84-010603] 20 p3315 N84-31055
Improvements in mechanical properties in SiC by the addition of TiC particles
[DE84-012352] 21 p3358 N84-31297
Comparative studies of vapor and liquid-phase impregnation of porous silicon nitride and silicon carbide materials
[DE84-012867] 21 p3359 N84-31309
Conceptual basis of resonance ionization spectroscopy
[DE84-011662] 21 p3360 N84-31318
Historical survey of resonance ionization spectroscopy
[DE84-011654] 21 p3361 N84-31319
Isotopically selective counting of noble gas atoms, using resonance ionization spectroscopy
[DE84-011638] 21 p3361 N84-31320
Perspective of the corrosive behavior of lithium and sodium
[DE84-011635] 21 p3367 N84-31362
Observations on the sliding wear of ceramics
[DE84-012344] 21 p3372 N84-31395
Transport properties and dielectric strengths of gas mixtures for use in diffuse discharge opening switches
[DE84-011444] 21 p3394 N84-31536
Performance test results of a lithium bromide-water absorption heat pump that uses low-temperature (60 deg C(140 deg F)) waste heat
[DE84-013129] 21 p3403 N84-31586
Theory of 4-wave mixing for VUV generation
[DE84-011663] 21 p3410 N84-31630
Advanced remotely maintainable force-reflecting servomanipulator concept
[DE84-011634] 21 p3414 N84-31646
Basis research on intelligent robotic systems operating in hostile environments: New developments at ORNL
[DE84-011464] 21 p3414 N84-31647
Atmospheric retention of anthrogenic CO2: Scenario dependence of the airborne fraction
[DE84-012079] 21 p3448 N84-31879
Inventory of numeric data for carbon dioxide research, revision 1
[DE84-013683] 21 p3449 N84-31881
Physics of ion sputtering
[DE84-011664] 21 p3495 N84-32150
Dual arc penning ion source gas flow experiments
[DE84-011637] 21 p3495 N84-32151
Nonlinear analysis of Stirling engine thermodynamics
[DE84-013493] 21 p3507 N84-32219
Review of existing environmental and natural resource data bases
[DE84-012039] 21 p3519 N84-32292
An evaluation of the system 2000 data base management system for use in major item system mapping
[DE84-013130] 21 p3519 N84-32296
Chemical vapor deposition of erosion resistant TiB-2 coatings
[DE84-012351] 22 p3556 N84-32518
Ion bombardment damage in a modified Fe-9Cr-1Mo steel
[DE84-014288] 22 p3557 N84-32522
INTERMD: A computer program to predict intermodulation product generation on two-way FM radio frequencies
[DE84-013767] 22 p3578 N84-32661
Current assessment of the potential of dielectric gas mixtures for industrial applications
[DE84-011658] 22 p3588 N84-32724
Development of advanced thermal insulation for appliances
[DE84-013132] 22 p3594 N84-32763
Microstructural analysis for series 300 stainless steel sheet welds and tensile samples
[DE84-008513] 22 p3605 N84-32837
Algorithms for error localization of discrete data
[DE84-014417] 22 p3641 N84-33089
Reliability of initial-value MHD calculations of Tokamak disruptions
[DE84-013600] 22 p3659 N84-33193
Accelerated convergence of the steepest-descent method for magnetohydrodynamic equilibria
[DE84-013602] 22 p3659 N84-33195
Synergistic effects in plasma surface interactions
[DE84-012346] 22 p3660 N84-33199
Propagation and absorption of electromagnetic waves in fully relativistic plasmas
[DE84-013627] 22 p3660 N84-33204
Fatigue behavior at 650 deg of 20 percent-cold-worked type 316 stainless steel irradiated at 550 deg C in the HFIR
[DE84-014269] 23 p3718 N84-33572
A modified tritium trick technique for doping vanadium alloys with helium
[DE84-014267] 23 p3720 N84-33581
PCMSOL-1: A computer simulation code for a direct gain passive solar structure. Part 2: PCMSOL-1 users guide
[ORNL/CSD-127/P-2] 23 p3790 N84-34040
Computer implementation of a globally averaged model of the world carbon cycle
[DOE/NBB-0062] 23 p3793 N84-34055
User's guide for an IBM PL/I implementation of the international standard organization DIS 8211 information processing-specification for a data descriptive file for information interchange
[ORNL/CSD-TM-207] 23 p3814 N84-34188
The EBT-S 28-GHz, 200-kW, CW, mixed-mode, quasi-optical plasma heating system
[DE84-014415] 23 p3829 N84-34287
Studies of compound states of atomic negative ions using laser beams
[AD-A144653] 24 p3962 N84-35091

OAK RIDGE Y-12 PLANT, TENN.

Computer-Integrated Manufacturing (CIM): Turning visions to reality
[DE83-015481] 01 p0091 N84-10593
Degradation of shape memory effect
[DE83-016586] 03 p0353 N84-12295
Dilatometric investigation of phase-transformation kinetics in HP 9-4-20 steel
[DE84-001180] 04 p0500 N84-13280
Low-cycle fatigue behavior of oxygen-free high-conductivity copper at 3000C in high vacuum
[DE84-000725] 04 p0504 N84-13305
INTERACT execute facility for job scheduling and manipulation
[DE84-001653] 05 p0758 N84-14968
Ion plating in corrosion protection
[DE84-001182] 06 p0807 N84-15256
Machine monitoring for turning machine
[DE84-010214] 19 p3003 N84-29029
User's guide to Sphere and Plate Interactive Display Routine (SPIDR)
[DE84-012855] 21 p3466 N84-31976
Improved techniques for data acquisition and analysis on X-ray diffraction equipment
[Y-2282] 23 p3750 N84-33774

OAKLAND ELECTRIC, INC., BERKELEY, CALIF.

Design and microprocessor-based implementation of digital frequency selective filters for application in terrain roughness identification
[AD-A133459] 06 p0897 N84-15828

OAKLAND UNIV., ROCHESTER, MICH.

Shot noise limited detection of OH using the technique of laser induced fluorescence
[NASA-CR-175433] 11 p1662 N84-20844
Relevant and irrelevant legal structures: Distinguishing private sector from DOD contracting
[AD-P003241] 18 p2903 N84-28408
The transfer of atoms, ions and molecular groups in solution. Part 1: Models and limits
[AD-A142333] 20 p3147 N84-29981
The transfer of atoms, ions and molecular groups in solution. Part 2: Tunnelling between harmonic wells
[AD-A142334] 20 p3147 N84-29982
The transfer of atoms, ions and molecular groups in solution. Part 3: Monte Carlo methods for the evaluation of rate constants
[AD-A142335] 20 p3147 N84-29983
A Taylor series in symmetry-adaptable functions
[AD-A142336] 20 p3280 N84-30819
Development of shearography for nondestructive testing of highway structure
[PB84-187244] 22 p3585 N84-32577

OAO CORP., GREENBELT, MD.

Air operations language for military space ground systems
[AD-P002146] 14 p2137 N84-23811
Dynamic spacecraft simulators in military space ground systems
[AD-P002159] 14 p2139 N84-23825

OBSERVATOIRE DE BESANCON (FRANCE).

Application of maximum likelihood and Monte Carlo methods to local studies of stellar velocity fields
09 p1409 N84-19211

OBSERVATOIRE DE MARSEILLE (FRANCE).

The ultraviolet spectrum of stars having optical Fe 2 emission lines 24 p3977 N84-35188

OBSERVATOIRE DE PARIS (FRANCE).

Interstellar lines in high resolution IUE spectra of run-away B type stars 24 p3973 N84-35160
Possible identifying characteristics of Be stars
24 p3976 N84-35185

OBSERVATOIRE DE PARIS-MEUDON (FRANCE).

Measurement of macroscopic plasma parameters with a radio experiment: Interpretation of the quasi-thermal noise spectrum observed in the solar wind
03 p0470 N84-13096
Anomalous behavior of ISEE-1 detected by the electron density experiment 08 p1116 N84-17259
The ISPM unified radio and plasma wave experiment
09 p1262 N84-18237
The Seyfert 1 galaxy NGC 4593 (3). Very rapid variations of its far UV spectrum and their implications
24 p3971 N84-35147
The wind and chromosphere of the Herbig Ae star AB Aur as seen by IUE 24 p3975 N84-35173
Ultraviolet orbital variability of the intermediate polars
24 p3980 N84-35217

OBSERVATOIRE DE STRASBOURG (FRANCE).

Preliminary results of a statistical classification of ultraviolet stellar spectra 09 p1409 N84-19205
Predictions: Also an astronomical tool
09 p1410 N84-19219
Prediction of spectral classification from photometric data. Application to the MK spectral classification and the Geneva photometric system
09 p1410 N84-19221
The interstellar absorption in the direction of some nearby A stars 24 p3972 N84-35155
Interstellar lines in high resolution IUE spectra of run-away B type stars 24 p3973 N84-35160
Search for chromospheric indicators in A dwarf stars
24 p3974 N84-35169
The Mg 2 lines in A dwarf stars
24 p3974 N84-35170
The search for superionization lines in A dwarf stars
24 p3975 N84-35171

Statistical classification of IUE stellar spectra by the Variable Procrustean Bed (VPB) approach
24 p3975 N84-35178
OCEAN DATA SYSTEMS, INC., MONTEREY, CALIF.
Forecasters handbook for the Middle East/Arabian Sea
[AD-A134312] 07 p1039 N84-16739
OCEAN DATA SYSTEMS, INC., ROCKVILLE, MD.
Underwater acoustic modeling techniques
10 p1507 N84-19864
OCEAN RESEARCH CONSULTANTS, LA JOLLA, CALIF.
Long-term trends in dynamic height and sea surface temperature
[DE83-014868] 02 p0258 N84-11687
OCEAN WEATHER, INC., COS COB, CONN.
Potential impact of remote sensing data on sea-state analysis and prediction
[E84-10083] 10 p1520 N84-19954
OESTERREICHISCHES FORSCHUNGSZENTRUM SEIBERSDORF G.M.B.H., VIENNA.
Development of a method for wear measurement of thermoplast journal bearings
[OEFZS-4271] 18 p2649 N84-28093
Poly (ADP-ribose) in nucleoids
[OEFZS-4267] 18 p2900 N84-28399
Radiation protection problems caused by nonionizing electromagnetic radiation in Austria
[OEFZS-4268] 18 p2900 N84-28400
The Austrian primary standard for ionizing radiation dosimetry results of international intercomparisons
[OEFZS-4269] 18 p2900 N84-28401
Considerations on the dimensioning of decay tanks for liquid radioactive wastes (basic methods and examples)
[OEFZS-4249] 18 p2931 N84-28586
Physical models and numerical methods of the reactor dynamic computer program RETRAN
[OEFZS-4272] 18 p2931 N84-28587
Activities report of the Department of Chemistry
[OEFZS-4273] 18 p2931 N84-28588
OFFICE NATIONAL D'ETUDES ET DE RECHERCHES AEROSPATIALES, LECLERC (FRANCE).
Progress in computation of viscous inviscid interaction
07 p0954 N84-16189
OFFICE NATIONAL D'ETUDES ET DE RECHERCHES AEROSPATIALES, PARIS (FRANCE).
A nonlinear control law for piloting aircraft in the air-to-ground attack phase 03 p0317 N84-12071
Interaction between a shock-wave and a vortex flow
03 p0321 N84-12104
Visualization of vortical type flows in three dimensions
03 p0322 N84-12107
Simulation of turbulent flows with a point vortex method 03 p0324 N84-12119
Experimentation with turbulent flows experiencing the effects of an adverse pressure gradient
03 p0325 N84-12127
La Recherche Aerospatiale, Bimonthly Bulletin, no. 1983-1/212, January-February 1983
[ESA-TT-814] 03 p0429 N84-12810
Development of the basic methods needed to predict the aeroelastic behavior of helicopters
03 p0429 N84-12811
Present trends in structural analysis at ONERA
03 p0429 N84-12812
Random eddies in wakes and mixing layers
03 p0429 N84-12813
La Recherche Aerospatiale, Bimonthly Bulletin, no. 1982-4, 209/July-August 1982
[ESA-TT-781] 04 p0477 N84-13141
La Recherche Aerospatiale, Bimonthly Bulletin, no. 1982-5, 210/September-October 1982
[ESA-TT-785] 04 p0477 N84-13142
La Recherche Aerospatiale, Bimonthly Bulletin, no. 1982-2, 207/March-April 1982
[ESA-TT-759] 04 p0478 N84-13143
Bifurcation theory applied to the study of control losses on combat aircraft 04 p0478 N84-13144
Analysis of pressure distributions on a wing with an oscillating trailing edge flap in subsonic and transonic flow 04 p0478 N84-13145
La Recherche Aerospatiale, Bimonthly Bulletin, no. 1982-6, 211/November-December 1982
[ESA-TT-801] 04 p0515 N84-13382
La Recherche Aerospatiale, Bimonthly Bulletin, no. 1982-3, 208/May-June 1982
[ESA-TT-771] 04 p0593 N84-13916
Helicopter noise 06 p0767 N84-15027
Experimental methods in compressor noise studies
06 p0767 N84-15028
Instrumentation and signal analysis
06 p0768 N84-15032
A systematic characterization of the effects of atmospheric electricity on the operational conditions of aircraft 06 p0776 N84-15086
A coupling method for the inverse mode calculation of transonic internal flows with a shock wave
07 p0955 N84-16194
An experimental method for analyzing shock-boundary layer interactions in cascades 07 p0955 N84-16195
La Recherche Aerospatiale, bimonthly bulletin number 1983-2, 213/March-April
[ESA-TT-817] 08 p1226 N84-18013
La Recherche Aerospatiale bimonthly bulletin, number 1983-3, 214/May-June
[ESA-TT-822] 08 p1226 N84-18014
Aerospace research activities
09 p1253 N84-18179
La Recherche Aerospatiale, Bimonthly bulletin, number 1983-4, 215/July-August
[ESA-TT-823] 13 p1935 N84-22589
Ground/flight test techniques and correlation
14 p2096 N84-23574
New TPS calibration bench, and ejector tests
14 p2099 N84-23594
Vortical flow exploration methods developed for the F1 wind tunnel 14 p2099 N84-23598
New methods of excitation, acquisition and data reduction about unsteady wind tunnel tests
14 p2099 N84-23599
Optimizing the maneuvers of an observation satellite for rapid overflight of a precise point on Earth
15 p2268 N84-24617
Design of a combustion chambers with reverse flow for small gas turbines 15 p2290 N84-24742
Prediction of turbulent reactive flow
15 p2293 N84-24762
La Recherche Aerospatiale, Bimonthly Bulletin, number 1983-5, 216/September - October
[ESA-TT-836] 15 p2402 N84-25419
Robustness qualification and improvement of multivariable regulators, with application to airplane control
[ONERA-NT-1983-2] 16 p2451 N84-25720
The wind tunnel S2MA of the aerodynamic testing plant in Modane-Avrieux, France
[ONERA-NT-1983-5] 16 p2454 N84-25735
Unsteady combustion of composite fuel droplets
[ONERA-NT-1983-3] 16 p2462 N84-25781
Possibilities of infrared spectroscopy with tunable semiconductro lasers
[ONERA-NT-1983-4] 16 p2462 N84-25782
La Recherche Aerospatiale, Bimonthly Bulletin, no. 1983-6, 217/November-December
[ESA-TT-841] 16 p2476 N84-25870
Robustness quantification for nonlinear sampled-data systems with dynamic multiplicative perturbations
16 p2476 N84-25871
Analysis of the sound field radiated by the Ariane launch vehicle during lift-off 16 p2476 N84-25872
Characterization of pressure transducers for future cryogenic wind tunnels 16 p2476 N84-25873
Developments in structural vibration testing methods
16 p2476 N84-25874
A nonlinear model of laminated plate, using combined variables 16 p2476 N84-25875
Resonant coherent anti-Stokes Raman scattering
[ONERA-P-1983-3] 16 p2487 N84-25954
Pseudo-unsteady systems for steady inviscid flows
[ONERA-P-1983-4] 16 p2487 N84-25955
A finite difference method for inverse mode calculations of a three-dimensional boundary layer
[AD-B071559] 16 p2488 N84-25956
The computation of inviscid-viscous coupled equations by a finite element method
[ONERA-NT-1983-1] 16 p2488 N84-25957
Contribution to the study of a numerical implicit method for solving the Euler equations
[ONERA-NT-1983-8] 16 p2488 N84-25958
Numerical prediction of multireactive turbulent flows by a Eulerian-Lagrangian method
[ONERA-NT-1983-9] 16 p2488 N84-25959
Implicit time dependent methods for the solution of the Euler equations 16 p2492 N84-25989
Implicit time dependent methods for the solution of the Euler equations. Part 2: Application to transonic flows
16 p2492 N84-25990
Flight dynamics and aircraft piloting
[ONERA-P-1983-1] 16 p2539 N84-26301
The principle of virtual work and associated variational principles
[AD-B071515] 16 p2549 N84-26361
Contribution to the study of light aircraft propeller noise
[AD-B073101] 16 p2554 N84-26386
Computation of noise radiating from a free jet perpendicular to its axis via laser anenometry measurements
[ONERA-NT-1983-6] 16 p2554 N84-26387
Study of low temperature plastic deformation mechanisms of alpha-titanium single crystals
[ONERA-NT-1983-7] 16 p2560 N84-26422
The ONERA Aeronautics Research Establishment in Cannes (France)
[ONERA-P-1983-2] 16 p2565 N84-26455
Stratospheric concentration of nitric acid, ozone and sulphurous carbonyl: Measurement of nitric acid absorption in the Q branch of the v4 band as a function of temperature
[AD-B071596] 17 p2724 N84-27336
Tensile strength and recrystallization of the 7010 and 7475 alloys: Low cycle fatigue of the 7010 alloy
[REPT-18/5069-M] 18 p2815 N84-27873
La Recherche Aerospatiale, Bimonthly Bulletin, no. 1984-1, 218/ January - February
[ESA-TT-858] 20 p3125 N84-29850
Residual curing stress of carbon-resin composites
[ONERA-RT-6/3521-M] 20 p3147 N84-29980
OFFICE NATIONAL D'ETUDES ET DE RECHERCHES AEROSPATIALES, TOULOUSE (FRANCE).
Effects of unsteadiness on turbulent boundary layers
06 p0838 N84-15457
Three-dimensional wake of a swept wing
06 p0838 N84-15458
Computing the three dimensional boundary layer in a compressor 07 p0956 N84-16200
The T2 cryogenic wind tunnel with self-adaptable walls at ONERA/CERT 14 p2095 N84-23567
Thermal control coatings experiment (A0138-6)
15 p2273 N84-24647
Study of meteoroid impact craters on various materials (A0138-1) 15 p2276 N84-24667
Attempt at dust debris collection with stacked detectors (A0138-2) 15 p2276 N84-24668
Optical fibers and components experiment (A0138-7)
15 p2278 N84-24683
An aerodynamic study of combustion in the combustion chambers of turbomachines: Experimental and theoretical approaches 15 p2293 N84-24764
Description and prediction of transition in two-dimensional, incompressible flow
23 p3748 N84-33758
OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, D. C.
Meeting the automatic data processing and telecommunications needs of the federal government: A five-year plan
[PB83-195255] 08 p1241 N84-18111
OFFICE OF NAVAL INTELLIGENCE, WASHINGTON, D. C.
Multi-sensor fusion, communications and information warfare
[AD-P002895] 13 p1980 N84-22855
OFFICE OF NAVAL RESEARCH, BAY ST. LOUIS, MISS.
Progress report abstracts, Oceanic Biology Program
[AD-A140840] 17 p2737 N84-27390
OFFICE OF NAVAL RESEARCH, LONDON (ENGLAND).
Fiber composite materials research in the UK: Assessment report
[AD-A132386] 04 p0492 N84-13226
International Meeting on Lithium Batteries
[AD-A132371] 04 p0525 N84-13455
The 1982 International Congress of Photographic Science
[AD-A132372] 04 p0538 N84-13536
Fourth Europhysical Conference on Lattice Defects in Ionic Crystals
[AD-A132387] 04 p0612 N84-14039
European Scientific Notes, volume 37, number 8
[AD-A133938] 05 p0759 N84-14977
European Scientific Notes, volume 37, number 7
[AD-A132676] 05 p0759 N84-14979
Applied psychology in Europe: An ONR perspective
[AD-A133093] 06 p0892 N84-15797
Robot manipulator control
[AD-A129365] 06 p0893 N84-15800
The 11th International Congress on Acoustics
[AD-A134345] 07 p1070 N84-16951
European Scientific Notes, volume 37, numbers 10/11
[AD-A134360] 07 p1084 N84-17053
Proceedings of the 9th World Computer Congress. IFIP (International Federation of Information Processing)
[AD-A136317] 09 p1365 N84-18911
European Scientific Notes, volume 37, no. 12
[AD-A135883] 09 p1404 N84-19173
European Scientific Notes, volume 38, number 1
[AD-A136868] 10 p1598 N84-20472
European Scientific Notes, Volume 38, Number 2
[AD-A137652] 11 p1746 N84-21394
European Scientific Notes, volume 38, no. 3
[AD-A138163] 12 p1918 N84-22498
Fast Electrical and Optical Diagnostic Principles and Techniques: A NATO Advanced Study Institute
[AD-A138598] 13 p1993 N84-22936

A survey of European robotics research
[AD-A138952] 13 p2024 N84-23122
Statistics and operations research in Europe--1983
[AD-A138953] 13 p2037 N84-23215
Bibliography of the research staff of the UK Institute of Oceanographic Sciences, Bidston Observatory (1979-83)
[AD-A138597] 14 p2183 N84-24080
Software tools survey
[PB84-145572] 14 p2208 N84-24256
Validation summary report, United Information Services, Inc., CDC CYBER 175, CDC COBOL 5.3 level 552
[PB84-156679] 14 p2208 N84-24257
Validation summary report, Data General Corporation, Eclipse MV/8000, AOS/VS COBOL revision 2.18
[PB84-156116] 14 p2208 N84-24258
Validation summary report, NCR Corporation, NCR V8585, VRX FORTRAN version 25
[PB84-156108] 14 p2209 N84-24259
Science in the European Economic Community: A self-assessment and a detailed plan of action
[AD-A139078] 14 p2247 N84-24492
European research on polymers and composites
[AD-A139760] 15 p2302 N84-24813
The 6th International Conference on Computing Methods in Applied Sciences and Engineering
[AD-A139824] 15 p2317 N84-24906
European scientific notes. Volume 38, Number 4
[AD-A140039] 15 p2416 N84-25506
European scientific notes. Volume 38, number 6
[AD-A142175] 19 p3116 N84-29801
Europe approaches chaos with electrical circuits
[AD-A142085] 20 p3177 N84-30179
European scientific notes, volume 38, no. 5
[AD-A141713] 21 p3518 N84-32285
European scientific notes, Volume 38, Number 7
[AD-A143238] 22 p3674 N84-33287
Physics in Europe: A data file of selected research
[AD-A143428] 22 p3674 N84-33289
Bioelectromagnetics research in West Germany: An assessment
[AD-A144297] 24 p3935 N84-34911
Bioelectromagnetics research in France: An assessment
[AD-A144305] 24 p3936 N84-34912
European scientific notes
[AD-A144223] 24 p3995 N84-35284

OFFICE OF NAVAL RESEARCH, SAN FRANCISCO, CALIF.

ONR (Office of Naval Research) Far East Scientific Bulletin. Volume 9, Number 1, January to March 1984
[AD-A140826] 17 p2770 N84-27589
Japanese research institutes funded by private corporations
[AD-A140892] 17 p2772 N84-27600

OFFICE OF NAVAL RESEARCH, WASHINGTON, D. C.

Computing theory and practice
09 p1403 N84-19167

OFFICE OF NAVAL RESEARCH LIASON OFFICE, FAR EAST, APO, SAN FRANCISCO, CALIF.

ONR Far East Scientific Bulletin. Volume 8, no. 3, July - September 1983
[AD-A134272] 08 p1240 N84-18109
ONR (Office of Naval Research) Far East Scientific Bulletin, volume 8, no. 4, October - December 1983
[AD-A138184] 12 p1783 N84-21632

OFFICE OF RADIATION PROGRAMS, WASHINGTON, D. C.

Environmental Radiation Data Report 33, January - March 1983
[PB84-104785] 08 p1183 N84-17708
Environmental Radiation Data Report 31, July - September 1982
[PB84-104801] 08 p1183 N84-17709
Environmental Radiation Data Report 32, October December 1982
[PB84-104793] 08 p1184 N84-17710

OFFICE OF SOFTWARE DEVELOPMENT, FALLS CHURCH, VA.

Data General Corporation ECLIPSE MV/8000, AOS/VS BASIC revision 2.20
[PB83-233452] 01 p0119 N84-10776
The TRW DATACOM AWS 246, TRW COBOL, Version 8.0 (Pre-Release)
[PB83-228148] 01 p0125 N84-10814
The NCR Corporation, WS 210, NCR COBOL Release 3.0 (Pre-Release)
[PB83-228171] 01 p0125 N84-10815
Burroughs Corporation B21-6T (512K), B20 COBOL Release 3.0 (Pre-Release)
[PB83-228130] 01 p0125 N84-10816
Convergent technologies IWS 111, CT COBOL Version 8.0 (Pre-Release)
[PB83-228122] 01 p0125 N84-10817
Convergent technologies AWS 267, CT BASIC Version 8.0 (Pre-Release)
[PB83-227306] 01 p0125 N84-10818
Burroughs Corporation B21-6T (512K), B20 BASIC Release 3.0 (Pre-Release)
[PB83-227298] 01 p0126 N84-10819
Convergent technologies, IWS 111, CT FORTRAN Version 8.0 (Pre-Release)
[PB83-227280] 01 p0126 N84-10820
The TRW Datacom, AWS 267, TRW BASIC Version 8.0 (Pre-Release)
[PB83-227272] 01 p0126 N84-10821
The TRW Datacom, AWS 246, TRW FORTRAN Version 8.0 (Pre-Release)
[PB83-227264] 01 p0126 N84-10822
The NCR Corporation, Office Systems Division, WS 210, NCR FORTRAN Release 3.0 (Pre-Release)
[PB83-227256] 01 p0126 N84-10823
The NRC Corporation, Office Systems division, WS 150 16Mb, NRC BASIC Release 3.0 (Pre-Release)
[PB83-227249] 01 p0126 N84-10824
Burroughs Corporation, B21-6T (512K), B20 FORTRAN Release 2.0 (Pre-Release)
[PB83-227231] 01 p0126 N84-10825
Data General Corporation ECLIPSE C/350, AOS FORTRAN 77, revision 2.11
[PB83-233460] 01 p0126 N84-10826
Burroughs Corporation B21-6T (512K), B20 COBOL release 3.0 (Pre-Release)
[PB83-233254] 01 p0127 N84-10827
Convergent technologies, IWS 111, CT COBOL version 8.0 (Pre-Release)
[PB83-233247] 01 p0127 N84-10828
Data General Corporation ECLIPSE C/350, MP/BASIC revision 2.00
[PB83-233478] 01 p0127 N84-10829
Data General Corporation ECLIPSE C/350, AOS and AOS/VS HICOBOL revision 2.00
[PB83-233486] 02 p0275 N84-11799
Data General Corporation ECLIPSE MV/8000, AOS/VS FORTRAN 77 revision 2.11
[PB83-233262] 02 p0275 N84-11800
Digital Equipment Corporation VAX-11/750, VAX-11 BASIC V2.0
[PB83-233213] 02 p0275 N84-11801
Digital Equipment Corporation, PDP-11/24, PDP-11 BASIC-PLUS-2
[PB83-233205] 02 p0275 N84-11802
Perkin-Elmer, Perkin-Elmer 3240, FORTRAN 7 release RO5-01
[PB83-233072] 02 p0275 N84-11803
NCR Corporation, NCR 19300, ITX COBOL, release 1.0 (COBOL technical report)
[PB83-241943] 02 p0276 N84-11805
NCR Corporation, NCR 19300, NCR ITX COBOL release 1.0
[PB83-241935] 02 p0276 N84-11806
Computer Sciences Corporation UNIVAC 1100/80, CSTS BASIC - release BAS160
[PB83-237412] 02 p0276 N84-11807
Data Generation Corporation Eclipse MV/8000, AOS/VS COBOL Revision 2.14
[PB83-237396] 02 p0276 N84-11808
The TRW DATACOM AWS 246, TRW COBOL Version 8.0 (Pre-Release)
[PB83-233981] 02 p0276 N84-11810
The NCR Corporation, Office Systems Division, WS 210, NCR COBOL release 3.0 (Pre-Release)
[PB83-233718] 02 p0276 N84-11811
Perkin-Elmer, Perkin-Elmer 3230 COBOL R07 (pre-release)
[PB83-238600] 03 p0423 N84-12766
Hewlett Packard HP 3000 series 40, COBOL 11/3000 version A.00.09
[PB83-254805] 04 p0584 N84-13858
Hewlett Packard HP 3000 series 40, COBOL 11/3000 version A.00.09 (COBOL technical report)
[PB83-254813] 04 p0584 N84-13859
Differences in COBOL syntax between vendors' implementations
[PB83-263392] 05 p0720 N84-14721
Sperry Univac, Univac 1100/80, UBASIC/BBASIC level 9R1
[PB84-113901] 08 p1214 N84-17919
Sperry Univac, Univac 1100/80, ASCII FORTRAN level 10R1A
[PB84-113893] 08 p1214 N84-17920
Burroughs Corporation, Burroughs B3955, Burroughs COBOL, version 6.7
[PB84-128446] 09 p1370 N84-18947
Harris Corporation, Harris H800, FORTRAN 77 NON-SAU, version 3.12
[PB84-128479] 09 p1370 N84-18948
Harris Corporation, Harris H800, VOS COBOL, version 3.0
[PB84-128487] 09 p1370 N84-18949
Harris Corporation, Harris H800, Harris COBOL, version 3.0
[PB84-128495] 09 p1370 N84-18950
Harris Corporation, Harris H800, FORTRAN 77 SAU, version 3.12
[PB84-128503] 09 p1371 N84-18951
Honeywell Information Systems, DPS 8/49C, COBOL C84.3U1 B06
[PB84-134758] 10 p1557 N84-20204
Honeywell International Systems DPS 8/70 FORTRAN-77 REL COO
[PB84-136191] 10 p1557 N84-20205
Tandem Computers, Incorporated, Tandem Nonstop 2 COBOL T9201E01
[PB84-137199] 10 p1558 N84-20206
Control Data Corporation CYBER 205 model 442 200 (G201-25)
[PB84-137421] 10 p1565 N84-20256
SDC/A Burroughs Corporation B94 CMS system CMS COBOL release 3.05
[PB84-140235] 10 p1565 N84-20257
Honeywell Information Systems DPS 8/49 FORTRAN (8) FZ3.0
[PB84-138213] 11 p1710 N84-21148
Honeywell Information Systems DPS 6/96 BASIC Interpreter Release 4.0
[PB84-139765] 11 p1710 N84-21149
Burroughs Corporation B3955 Burroughs FORT77 Version 6.7
[PB84-137223] 11 p1710 N84-21150
Honeywell Information Systems DPS 8/70M MULTICS FORTRAN compiler version 10.2
[PB84-140714] 11 p1710 N84-21151
Honeywell Information Systems DPS 6/96 FORTRANA release 2.1
[PB84-141233] 11 p1711 N84-21152
Cray Research, Incorporated, Cray 1-S Cray FORTRAN (CFT) version 1.11 Bugfix 1
[PB84-141258] 11 p1711 N84-21153
Validation report IBM Corporation, IBM 5360 MODEL B24, SYSTEM/36 COBOL release 1
[PB84-149228] 12 p1885 N84-22288
D and B Computing Services, Inc., AMDAHL 470 V/8, IBM FORTRAN VS Release 3, Mod 0
[PB84-149327] 12 p1885 N84-22290
Digital Equiptment Corporation, VAX 11/730, VAX-11 BASIC V2.2
[PB84-149806] 12 p1885 N84-22291
Burroughs Corporation, Burroughs B-7800, FORTRAN 77 Version III.4.1
[PB84-149913] 12 p1885 N84-22292
Honeywell Information Systems, DPS 6/96, CoBOLA Release 4.0
[PB84-150010] 12 p1886 N84-22293
IBM Corporation, IBM 5360 model B24 SYSTEM/36 COBOL Release 1
[PB84-150226] 12 p1886 N84-22294
Prime Computer, Incorporated, PRIME 750, FORTRAN-77, revision 19.3.1
[PB84-151265] 12 p1886 N84-22296
Digital Equipment Corporation, PDP-11/44, PDP-11 FORTRAN V5.0
[PB84-151273] 12 p1886 N84-22297
Validation report: Digital Equipment Corporation, VAX 11/780, PDP-11 FORTRAN V5.0
[PB84-149236] 12 p1886 N84-22298
Sperry Univac, OS/3 BASIC Version 9.0
[PB84-150218] 14 p2206 N84-24240
Data General Corporation, Eclipse MV/8000, AOS/VS HICOBOL, revision 2.01
[PB84-157346] 14 p2206 N84-24241
Intel Corporation INTEL System 86/330A, FoRTRAN 86 Release 2.1
[PB84-155134] 14 p2207 N84-24248
Prime Computer, Incorporated, Prime 750, COBOL-74 19.4, revised
[PB84-155985] 14 p2207 N84-24249
Data General Corporation, Eclipse MV/8000, AOS FORTRAN 77 2.21, revised
[PB84-156124] 14 p2207 N84-24250
COBOL technical report, United Information Services, Incorporated, CDC CYBER 175, CDC COBOL 5.3 level 552
[PB84-156587] 14 p2208 N84-24251
Wang Laboratories, Incorporated, VS-100 VS COBOL, Version 3.8.1
[PB84-156595] 14 p2208 N84-24252
COBOL technical report, Wang Laboratories, Incorporated, VS-100 VS COBOL Version 3.8.1
[PB84-156678] 14 p2208 N84-24253
Burroughs Corporation B7800, Large Systems BASIC 3.4.1
[PB84-157379] 14 p2208 N84-24254
IBM Corporation, IBM 5360 model B24, SYSTEM/36 BASIC Release 1 (5727-BL1)
[PB84-157171] 14 p2208 N84-24255

Gould Incorporated, Gould concept 32/87, FORTRAN 77/X32 Rel. 2.0
[PB84-175603] 17 p2755 N84-27488
Gould Incorporated, Gould Concept 32/87, FORTRAN 77+Rel.4.0
[PB84-175629] 17 p2755 N84-27489
IBM Corporation, IBM 4341, IBM BASIC/MVS release 1.0
[PB84-175611] 17 p2755 N84-27490
Modular Computer System, Inc. Modular NASA extended FORTRAN 78 C.1
[PB84-180231] 20 p3267 N84-30734
Burroughs Corporation, B5900, large systems COBOL74 3.4.1.
[PB84-181379] 20 p3268 N84-30735
Burroughs Corporation B1000 system interactive, BASIC release 11.0
[PB84-180215] 20 p3275 N84-30794
Data General Corporation ECLIPSE MV/8000, MP-BASIC revision 3.00
[PB84-181361] 20 p3275 N84-30796
United Information Services, Inc. CDC Cyber 175, super BASIC version 1.0
[PB84-181387] 20 p3276 N84-30797

OFFICE OF TECHNOLOGY ASSESSMENT, WASHINGTON, D.C.
Technology and East-West trade: An update
[PB83-234955] 01 p0163 N84-11068
Airport and air traffic control system
[OTA-STI-175] 03 p0329 N84-12143
Airport and air traffic control system. Executive summary 03 p0329 N84-12144
Airport and air traffic control system. Introduction and overview 03 p0329 N84-12145
The National Airspace System 03 p0329 N84-12146
Aviation growth scenarios 03 p0329 N84-12147
Technology and the future evolution of the ATC system 03 p0329 N84-12148
Airport capacity alternatives 03 p0329 N84-12149
Policy implications 03 p0329 N84-12150
Workshop on Arms Control in Space
[LC-84-601064] 14 p2248 N84-24505
Commercial biotechnology: An international analysis
[PB84-173808] 16 p2535 N84-26272
International competitiveness in electronics
[PB84-170695] 16 p2568 N84-26475
Report to Congress of the Office of Technology Assessment
[PB84-173814] 16 p2568 N84-26482
Salyut: Soviet steps toward permanent human presence in space
[PB84-181437] 20 p3135 N84-29905
Remote sensing and the private sector: Issues for discussion
[PB84-160777] 20 p3229 N84-30520
Wetlands: Their use and regulation
[PB84-175918] 20 p3239 N84-30561
Technology, innovation and regional economic development. Background paper 2: Encouraging high-technology development
[PB84-180181] 21 p3522 N84-32310

OFFICE OF THE CHIEF OF STAFF (ARMY), WASHINGTON, D. C.
The Army study program fiscal year 1984 report, volume 1
[AD-A136213] 09 p1398 N84-19130
The Army study program fiscal year 1984 report, volume 2
[AD-A136214] 09 p1396 N84-19131
Where to find it. Information resource centers, A quick reference booklet
[AD-A133117] 11 p1750 N84-21419

OFFICE OF THE COMPTROLLER OF THE ARMY, WASHINGTON, D. C.
Now: An initial approach to collection of major materiel systems actual costs
[AD-A139845] 15 p2416 N84-25505
Results of a research study to identify historical RDTE (Research, Development, Test and Evaluation) obligations and expenditures on major Army materiel and non-materiel systems
[AD-A139328] 15 p2416 N84-25508

OFFICE OF THE DEPUTY UNDER SECRETARY OF DEFENSE FOR RESEARCH AND DEVELOPMENT (RESEARCH AND ADVANCED TECHNOLOGY), WASHINGTON, D.C.
The Department of Defense statement on the science and technology program by Dr. Edith W. Martin, Deputy Under Secretary of Defense for Research and Advanced Technology before the Subcommittee on Research and Development of the Committee on Armed Services of the United States House of Representatives, 98th Congress, second session
[AD-A139402] 14 p2246 N84-24488

OFFICE OF THE SECRETARY OF DEFENSE, WASHINGTON, D. C.
Word processors in aerospace/defense information services: Use of distributed information systems by the Office of the Secretary of Defense 11 p1751 N84-21429

OFFICE OF THE UNDER SECRETARY OF DEFENSE FOR RESEARCH AND ENGINEERING, WASHINGTON, D. C.
Department of Defense computer technology. A report to Congress
[AD-A132899] 05 p0720 N84-14716
Report of the DOD-University forum working group on engineering and science education
[AD-A138205] 13 p2049 N84-23292
The industrial modernization incentives program: An experimental effort to improve defense contractor productivity
[AD-P002771] 13 p2053 N84-23318
Contract requirements: A key to controlling DoD acquisition costs
[AD-P002828] 13 p2062 N84-23373

OFFICINE GALILEO S.P.A., FLORENCE (ITALY).
Study of advanced signal processing and calibration for IRES (infrared sensors)
[REPT-458-DT-5] 12 p1782 N84-21628

OGDEN AIR LOGISTICS CENTER, HILL AFB, UTAH.
Qualification of a new MAPO source and ERL-510 curing agent for Minuteman Stage I UF-2121 liner
[AD-A137539] 11 p1626 N84-20640
Surveillance report. Stage I dissected motors. Phase XIV. Propellant and component testing
[AD-A139201] 14 p2132 N84-23777
LGM-30B, stage 2 dissected motor test report
[AD-A140337] 16 p2460 N84-25765
Stage I propellant surveillance report glacial acrylic acid motors GAA-001 and GAA-002 TP-H1011
[AD-A141099] 19 p3001 N84-29020

OHIO STATE UNIV., COLUMBUS.
Vibration analysis of turbomachinery blades by shell theory 01 p0009 N84-10053
Transient heat flow across uni-directional fibers in composites
[AD-A131052] 01 p0032 N84-10199
Workshop on Research Techniques in Wave Propagation and Scattering
[AD-A130270] 01 p0063 N84-10415
Selected aspects of radio interference from HVDC (High Voltage Direct Current) converter stations
[PB83-219675] 01 p0075 N84-10494
The effects of atmospheric water vapor absorption on infrared laser propagation in the 5 micrometer band
[AD-A130788] 01 p0087 N84-10566
Modeling of the transmissibility through rolling-element bearings under radial and moment loads 01 p0089 N84-10580
General 3rd Airborne antenna radiation pattern code users manual
[AD-A130359] 01 p0121 N84-10790
Radiation patterns of an antenna mounted on the off-mid section of an ellipsoid
[AD-A130956] 02 p0209 N84-11362
An approach to expert systems for mechanical design
[AD-A131340] 02 p0272 N84-11777
CSRL (Conceptual Structures Representation Language): A language for expert systems diagonsis
[AD-A131403] 02 p0272 N84-11782
Expert systems: Matching techniques to tasks
[AD-A131385] 02 p0279 N84-11826
An experimental study of an ultra-mobile vehicle for off-road transportation
[AD-A131449] 02 p0303 N84-11991
Study to determine the IFR operational profile and problems to the general aviation pilot 03 p0311 N84-12032
A summary and integration of research concerning single pilot IFR operational problems 03 p0312 N84-12034
Accuracy estimates of gravity potential differences between western Europe and United States through Lageos satellite laser ranging network
[AD-A131838] 03 p0406 N84-12669
Kinetics of growth and decay of excited rare-gas atoms and molecules in the pulse radiolysis of pure rare gases and of mixtures of rare gases with molecular quenching agents
[DE83-017016] 03 p0436 N84-12856
Adaptive array behavior with periodic phase modulated interference
[AD-A132229] 04 p0521 N84-13427
An experimental study of multi-link models of human postural dynamics and control 04 p0572 N84-13769
Proceedings of the 38th Symposium on Molecular Spectroscopy
[AD-A133957] 05 p0646 N84-14252
Analysis of electromagnetic backscatter from an inlet cavity configuration
[AD-A133626] 05 p0669 N84-14400
Cascaded adaptive arrays 05 p0671 N84-14415
Analysis of airborne antenna pattern and mutual coupling and their effects on adaptive array performance 05 p0672 N84-14416
Volume integrals associated with the inhomogeneous Helmholtz equation. Part 1: Ellipsoidal region
[NASA-CR-3749] 05 p0689 N84-14525
Volume integrals associated with the inhomegeneous Helmholtz equation. Part 2: Cylindrical region; rectangular region
[NASA-CR-3750] 05 p0689 N84-14526
Investigation of an error theory for conjoint measurement methodology
[AD-A133946] 05 p0734 N84-14818
Least square approximation by linear combinations of multipoles
[AD-A134069] 05 p0741 N84-14867
A study of magnetic, line-blanketed model atmospheres 05 p0762 N84-15001
Effect of UV illumination on the sublimation of basal surfaces of zinc oxide
[AD-A133383] 06 p0801 N84-15222
Radiation patterns of an antenna mounted on the mid-section of an ellipsoid
[AD-A133203] 06 p0823 N84-15365
Adaptive arrays for multiple simultaneous desired signals
[AD-A133486] 06 p0824 N84-15373
The calculated performance of some radar and transmissometer systems in rain and fog at 35, 94, 140 and 240 GHz, volume 1
[AD-A133587] 06 p0825 N84-15380
Coherent electromagnetic wave propagation and scattering in random media
[AD-A133601] 06 p0825 N84-15381
Optical flow and texture variables useful in simulating self motion (2)
[AD-A133597] 06 p0889 N84-15779
Interacting boundary-layer solutions for laminar separated flow past airfoils
[NASA-CR-172287] 07 p0946 N84-16140
Results of an experimental program investigating the effects of simulated ice on the performance of the NACA 63A415 airfoil with flap
[NASA-CR-168288] 07 p0947 N84-16145
Potential flow analysis of glaze ice accretions on an airfoil
[NASA-CR-168282] 07 p0947 N84-16146
A spectrum of methane from 700 to 5500 cm-1
[NASA-CR-175360] 07 p0969 N84-16280
Advanced adaptive antenna techniques
[AD-A134300] 07 p0993 N84-16434
Advanced adaptive antenna techniques
[AD-A134301] 07 p0993 N84-16435
Reference coordinate systems for Earth dynamics: A preview 07 p1029 N84-16668
Effects of adopting new precession, nutation and equinox corrections on the terrestrial reference frame 07 p1029 N84-16670
Reference frame requirements and the MERIT campaign
[REPT-329] 07 p1029 N84-16671
On the establishment and maintenance of a modern conventional terrestrial reference system
[NOAA-TR-NOS95-NGS-24] 07 p1029 N84-16672
Basic research for the geodynamics program
[NASA-CR-175337] 07 p1032 N84-16699
Least squares methods of analyzing spectroscopic data
[NASA-CR-173241] 07 p1059 N84-16858
Least squares methods of analyzing spectroscopic data
[NASA-CR-175335] 07 p1061 N84-16877
The infrared spectral analysis of CF/sub 2Cl/sub 2
[NASA-CR-173198] 07 p1075 N84-16985
Measurements of chromospheric densities and geometrical extensions of late-type giant and super-giant stars
[NASA-CR-175236] 07 p1089 N84-17079
Documentation of ice shapes on the main rotor of a UH-1H helicopter in hover
[NASA-CR-168332] 08 p1098 N84-17139
The retrieval of atmospheric constituent mixing-ratio profiles from solar absorption spectra
[NASA-CR-173303] 08 p1186 N84-17730
A test strategy for high resolution image scanners
[AD-A134998] 08 p1231 N84-18048
Electrocatalysis of oxygen using water soluble metal porphyrins and chemically modified porphyrin electrodes
[AD-A136062] 09 p1280 N84-18358
The performance of an LMS (Least Mean Square) adaptive array with frequency hopped signals
[AD-A136461] 09 p1298 N84-18489

A user's manual for Electromagnetic Surface Patch (ESP) code. Version 2: Polygonal plates and wires
[AD-A135837] 09 p1300 N84-18497
Transient current density waveforms on a perfectly conducting sphere
[AD-A135862] 09 p1300 N84-18500
Effects of mutual coupling on the performance of adaptive arrays
[AD-A136083] 09 p1309 N84-18560
Effects of assuming independent component failure times, if they are actually dependent, in a series system
[AD-A136567] 09 p1327 N84-18657
The role of calcium in the gravitropic response of roots 09 p1352 N84-18834
Analysis of the kinematic properties data of the shoulder complex during forced motion
[AD-A135913] 09 p1362 N84-18895
Distributed knowledge base systems for diagnosis and information retrieval
[AD-A136577] 09 p1404 N84-19171
Pairwise balanced latin squares should always be used for within-subjects designs
[AD-A137283] 10 p1569 N84-20282
Free vibration analysis with beam models which include bending warping, torsion warping and anticlastic bending effects 11 p1667 N84-20874
Finite element investigations of thermo-elastic and thermo-plastic consolidation 11 p1667 N84-20875
The effect of vertical datum inconsistencies on the determination of gravity related quantities
[AD-A137881] 11 p1682 N84-20978
Distributed knowledge base systems for diagnosis and information retrieval
[AD-A137828] 11 p1750 N84-21421
Microstrip analysis techniques
[AD-A137972] 12 p1811 N84-21804
Cardiac swimming and a traditional rehabilitation program of bike-walk-jog; a comparison of maximal oxygen consumption and strength 12 p1864 N84-22148
Analyzing program methodologies using software science
[AD-A138121] 12 p1881 N84-22259
Rank-based inference for linear models: Asymmetric errors
[AD-A138404] 12 p1894 N84-22340
Optical pulse generator using liquid crystal light valve 12 p1906 N84-22414
Optical residue addition and storage units using a Hughes liquid crystal light valve 12 p1906 N84-22417
Ultrasonic methods to study shadow boundaries of diffracting cracks. Ultrasonic caustics in NDE (Non-Destructive Evaluation)
[AD-A138839] 13 p1999 N84-22970
Expert systems for price analysis: A feasibility study
[AD-P002795] 13 p2057 N84-23341
An intelligent manual for price analysis
[AD-P002798] 13 p2057 N84-23344
Engineering calculations for communications satellite systems planning
[NASA-CR-173532] 14 p2113 N84-23662
Adaptive arrays for satellite communications
[NASA-CR-173548] 15 p2320 N84-24924
Do satellite magnetic anomaly data accurately portray the crustal component? 15 p2356 N84-25134
Long-wavelength magnetic and gravity anomaly correlations of Africa and Europe 15 p2356 N84-25135
US aeromagnetic and satellite magnetic anomaly comparisons 15 p2356 N84-25136
Analysis of carbon dioxide bands near 2.2 micrometers
[NASA-CR-173605] 16 p2462 N84-25779
Hydrogen attack mechanisms in a 2-1/4 Cr1 Mo welded steel 16 p2464 N84-25789
Joint services electronics program
[AD-A140434] 16 p2485 N84-25936
An interpretive study of plate and shell buckling
[AD-A140487] 16 p2502 N84-26062
The development of a bidirectional multi-speed impact model of the adult human thorax 16 p2535 N84-26273
Identification of scattering mechanisms from measured impulse response signatures of several conducting objects
[AD-A140773] 17 p2653 N84-26971
Simultaneous retrieval of atmospheric temperatures and ray paths from occultation spectra
[NASA-CR-173649] 17 p2726 N84-27354
Suppression of asymmetric acid efflux and gravitropism in maize roots treated with auxin transport inhibitors of sodium orthovanadate
[NASA-CR-173634] 17 p2740 N84-27395
Report on the feasibility of designing expert systems for contract price analysis
[AD-A140854] 17 p2770 N84-27590
Kinetic-elastic approach for time-dependent rheological data on slurry fuels and polymers
[AD-A141210] 18 p2821 N84-27911
An experimental study of an ultra-mobile vehicle for off-road transportation
[AD-A141323] 18 p2849 N84-28091
The design of an expert system for contract price analysis
[AD-A140927] 18 p2943 N84-28662
Development of low cost filler materials for welding high strength steels
[AD-A141724] 19 p2994 N84-28973
A numerical simulation of the dispersal of aerial sprays
[NASA-CR-165816] 19 p3020 N84-29151
The generation of a mass point model from surface gravity data
[AD-A142327] 19 p3054 N84-29382
A study of the application of software metrics to COBOL
[AD-A141467] 19 p3076 N84-29516
The influence of nitrogen on the sensitization, corrosion, mechanical and microstructural properties of stainless steels
[DE83-017203] 20 p3157 N84-30050
Computational method for thermoviscoelasticity with application to rock mechanics
[DE84-003087] 20 p3242 N84-30585
Theoretical and experimental investigations of asymmetric turbulent supersonic free shear layers 21 p3323 N84-31088
Transfer during sliding wear of selected metal systems 21 p3364 N84-31341
Environmentally-controlled crack growth rate of type 304 stainless steel in high temperature sulfate solutions 21 p3364 N84-31342
Modeling, control and simulation of three-dimensional robotic systems with application to biped locomotion 21 p3460 N84-31943
Research on computer aided testing of pilot response to critical in-flight events
[NASA-CR-173871] 21 p3460 N84-31945
A spectrophotometric study of temporal variations in the optical spectrum of SS 433 21 p3522 N84-32312
New gallium precursors for the formation of high purity gallium arsenide by metal organic vapor phase deposition
[AD-A143361] 22 p3663 N84-33219
Approximate methods for obtaining the complex natural electromagnetic oscillations of an object
[AD-A143913] 23 p3821 N84-34229

OHIO UNIV., ATHENS.
Investigation of air transportation technology at Ohio University, 1982 02 p0167 N84-11100
Enhanced character sizes for the VDM-1 video display board 02 p0168 N84-11101
RF front end interface and AGC modification 02 p0168 N84-11102
Preliminary description of the area navigation software for a microcomputer-based Loran-C receiver 02 p0168 N84-11103
Weather data communication and utilization 03 p0313 N84-12045
Path discrepancies between great circle and rhumb line
[NASA-TM-85522] 08 p1102 N84-17168
Engineering and technical services to improve reliability and maintainability of instrument landing system components
[DOT/FAA/PM-84/7] 11 p1604 N84-20503
Processor-controlled timing module for LORAN-C receiver
[NASA-CR-175424] 11 p1604 N84-20504
A micro-computer based system to compute magnetic variation
[NASA-CR-173376] 11 p1604 N84-20506
Instrument landing system critical area studies
[AD-A138228] 12 p1768 N84-21530
Microprocessor automation for the Dynaflect Deflection Measuring System
[PB84-180413] 20 p3171 N84-30135

OHIO WESLEYAN UNIV., DELAWARE.
Functional assessment of laser irradiation
[AD-A139490] 15 p2378 N84-25273
Functional assessment of laser irradiation
[AD-A139507] 15 p2378 N84-25274

OITA UNIV. (JAPAN).
Micropower CMOS implementation of three-valued logic functions
[AD-P002333] 14 p2190 N84-24124

OKLAHOMA CITY AIR LOGISTICS CENTER, TINKER AFB, OKLA.
Training acquisition personnel through a local college
[AD-P002766] 13 p2052 N84-23313
Reshaping the philosophy of spare parts acquisition: Project PACER PRICE
[AD-P002791] 13 p2056 N84-23338

OKLAHOMA STATE UNIV., STILLWATER.
Switchable 10-bit PCM decoder
[AD-A130461] 01 p0070 N84-10459
Processor-controlled DAC-20 (digital-to-analog converter)
[AD-A132260] 04 p0526 N84-13460
Surface contact wear and abrasive wear in lubricated sliding mechanisms 04 p0543 N84-13573
Turbulence characteristics of swirling flowfields
[NASA-CR-175392] 10 p1490 N84-19744
Confined turbulent swirling recirculating flow predictions
[NASA-CR-175397] 10 p1491 N84-19745
Investigations of flowfields found in typical combustor geometries 11 p1611 N84-20544
Spectroscopic investigations of materials for tunable infrared lasers
[AD-A138324] 12 p1821 N84-21869
Study of defects produced by the growth, post treatment and fabrication of quartz
[AD-A138327] 12 p1914 N84-22471
Transient three-dimensional predictions of turbulent flows in cylindrical and cartesian coordinate systems 13 p1991 N84-22927
A discrete-element analysis for large deflection of thin plates: A combined effect of geometric and material nonlinearities 13 p2003 N84-22995
Study of defects produced by the growth, post treatment and fabrication of quartz
[AD-A139834] 15 p2413 N84-25485
Detection of damage in hydraulic components by acoustic emission techniques
[AD-A143262] 22 p3607 N84-32850
Turbulence characteristics of swirling flowfields 23 p3687 N84-33371
Parameter measurement methods for interfacing hydraulic systems with microelectronic instruments and controllers
[AD-A144208] 24 p3902 N84-34710

OKLAHOMA UNIV., NORMAN.
Transverse shear effects in bimodular composite laminates
[AD-A130261] 01 p0031 N84-10195
Forced vibration of Timoshenko beams of multimodular materials
[AD-A130372] 01 p0095 N84-10617
Inelastic stability of tapered, singly-symmetric beam-columns 02 p0230 N84-11509
Three-dimensional analysis of composite plates with material nonlinearity
[AD-A131884] 03 p0347 N84-12258
The effects of channel tortuosity on electromagnetic radiations from lightning return strokes 03 p0359 N84-12335
Optimization of waverider configurations generated from non-axisymmetric flows past a nearly circular cone 06 p0780 N84-15108
Relationships between thunderstorm mesoscale circulation and tornadogenesis 06 p0880 N84-15727
A critical evaluation of new plate theories applied to laminated composites
[AD-A137789] 11 p1668 N84-20883
Research and theory on predecision processes
[AD-A137962] 12 p1866 N84-22163
New theory for thick, composite-material rings
[AD-A138538] 13 p2001 N84-22981
Ability and expertise in act generation
[AD-A137973] 13 p2022 N84-23110
Problem analysis and definition in act generation
[AD-A137978] 13 p2022 N84-23111
A structured design of multiple-valued LSI/VLSI with built-in testing capability
[AD-P002328] 14 p2189 N84-24119
Nonlinear analysis of laminated, bimodular composite material structures
[AD-A139942] 15 p2285 N84-24714
Transverse shear effects in bimodular composite laminates 15 p2309 N84-24854
Four-dimensional satellite data assimilation
[AD-A139904] 15 p2372 N84-25228
Deflection and vibration in shear-deformable beams and liminated composites made of bimodular and multimodular materials 16 p2503 N84-26066
Ionic reactions in the Earth's upper atmosphere
[AD-A141185] 18 p2880 N84-28283
Multi-valued LSI/VLSI logic design 22 p3580 N84-32670
Retrieval of thermal and microphysical variables in observed convective storms 23 p3799 N84-34089
Analysis of lidar, radar and satellite measurements on severe thunderstorms and their environments 24 p3928 N84-34864

OLD DOMINION UNIV., NORFOLK, VA.
Analysis of an effusive sampling device for analysis of boundary layer gases
[NASA-CR-174532] 01 p0120 N84-10778
Turbulent wall pressure simulation
[AD-A132297] 04 p0533 N84-13507
An investigation of accelerating mechanisms in a plasma focus relevant to interrupting switches
[AD-A133462] 06 p0920 N84-15983
Data reduction programs for a laser radar system
[NASA-CR-173152] 07 p0992 N84-16430
Transition to turbulence in plane channel flow
[NASA-CR-173149] 07 p1000 N84-16486
Self-shadowing of orbiting trusses
[NASA-CR-173215] 07 p1012 N84-16565
Preliminary study of (2-D) digital filtering for dealiasing NOSS wind direction data
[NASA-CR-173147] 07 p1036 N84-16721
Application of the method of lines for solutions of the Navier-Stokes equations using a nonuniform grid distribution
[NASA-CR-173180] 07 p1060 N84-16870
A study of physical processes for space radiation protection
[NASA-CR-173183] 07 p1071 N84-16954
A theoretical model for calculation of molecular stopping power 07 p1071 N84-16957
Investigation of design considerations for a complex demodulation filter
[NASA-CR-173295] 08 p1107 N84-17195
Airborne antenna pattern calculations
[NASA-CR-173284] 08 p1143 N84-17436
Analysis of longwave radiation for the Earth-atmosphere system
[NASA-CR-173155] 08 p1143 N84-17437
Stability of the laminar boundary layer in a streamwise corner
[NASA-CR-173282] 08 p1157 N84-17532
Theoretical studies of solar-pumped lasers
[NASA-CR-173283] 08 p1164 N84-17576
A modified lifting line theory for wing-propeller interference
[NASA-CR-173324] 09 p1252 N84-18171
Accurate evaluation of homogenous and nonhomogeneous gas emissivities
[NASA-CR-173307] 09 p1277 N84-18340
Transition to turbulence in plane channel flows
[NASA-CR-172298] 09 p1313 N84-18577
Component mode synthesis and large deflection vibrations of complex structures
[NASA-CR-173338] 09 p1329 N84-18680
An analytical design procedure for the determination of effective leading edge extensions on thick delta wings
[NASA-CR-172351] 10 p1419 N84-19284
Interaction of two-dimensional transverse jet with a supersonic mainstream
[NASA-CR-175446] 11 p1602 N84-20492
Analysis of flow dynamics through small diameter gas sampling systems
[NASA-CR-175447] 11 p1728 N84-21276
Development and operation of a real-time data acquisition system for the NASA, Langley Research Center Differential Absorption Lidar
[NASA-CR-173397] 12 p1918 N84-22495
Large deflection multimode response of clamped rectangular panels to acoustic excitation, volume 1
[AD-A139622] 15 p2350 N84-25107
An investigation of aerodynamic characteristics of wings having vortex flow using different numerical codes
[NASA-CR-173596] 16 p2438 N84-25639
On the space shuttle wing thermal-structural analysis 16 p2457 N84-25755
Oculometric indices of simulator and aircraft motion
[NASA-CR-3801] 16 p2537 N84-26291
Finite element thermal-structural analysis of cable-stiffened space structues
[NASA-CR-173709] 18 p2852 N84-28108
Identification of aerosol composition from multi-wavelength lidar measurements
[NASA-CR-173445] 18 p2877 N84-28266
A review and evaluation of research concerning the performance effects of nuclear radiation
[AD-P003295] 18 p2908 N84-28445
Assessment of learning abilities using rate measures
[AD-P003340] 18 p2911 N84-28463
Design of multivariable feedback control systems via spectral assignment using reduced-order models and reduced-order observers
[NASA-CR-173448] 18 p2923 N84-28537
Computer program documentation for a subcritical wing design code using higher order far-field drag minimization
[NASA-CR-3457] 19 p2957 N84-28740
Programming for energy monitoring/display system in multicolor lidar system research
[NASA-CR-165875] 19 p3073 N84-29498
Implementation of uniform perturbation method for potential flow past axisymmetric and two-dimensional bodies
[NASA-CR-173829] 20 p3125 N84-29851
Theoretcial studies of solar-pumped lasers
[NASA-CR-173833] 20 p3192 N84-30274
Feasibility studies of Conversion Electron Moessbauer Spectroscopy (CEMS) of iron-doped InP
[AD-A142463] 20 p3309 N84-31014
Graduate engineering research participation in aeronautics
[NASA-CR-173849] 21 p3507 N84-32220
Visual information transfer. 1: Assessment of specific information needs. 2: The effects of degraded motion feedback. 3: Parameters of appropriate instrument scanning behavior
[NASA-CR-173913] 22 p3633 N84-33020
Control methodologies for large space structures
[NASA-CR-173987] 24 p3861 N84-34467
OLIN CORP., MARION, ILL.
Combustion of GAP, part 1 20 p3142 N84-29952
Development of GAP-TAGN-PEG propellants. Part 1: Study of ingredients 20 p3143 N84-29954
Synthesis of diazidodiesters 20 p3143 N84-29956
OLIVETTI (C.) AND C., S.P.A., TURIN (ITALY).
AMIX: An automated system for handling error notification data 05 p0722 N84-14734
OLSON (RICHARD E.), COLBY, KANS.
On-site analysis to assess the feasibility of wind power
[DE84-009762] 20 p3247 N84-30606
OMEGA-P, INC., NEW HAVEN, CONN.
Gyrotron backward-wave oscillator
[AD-A140908] 17 p2664 N84-26993
OMNI TECHNOLOGY, FREEMONT, CALIF.
Development of standardized specifications for screening space level integrated circuits and semiconductors
[NASA-CR-171100] 19 p3012 N84-29093
ONSALA SPACE OBSERVATORY (SWEDEN).
Millimeter radio astronomy at Onsala (Sweden) 09 p1413 N84-19242
OPEN UNIV., MILTON (ENGLAND).
Acoustic-to-Seismic coupling over porous ground surfaces
[AD-A138753] 13 p2011 N84-23046
OPERATIONAL RESEARCH AND ANALYSIS ESTABLISHMENT, OTTAWA (ONTARIO).
Computer aided construction of ground attack mission profiles over European terrain 06 p0772 N84-15060
OPERATIONS RESEARCH, INC., SILVER SPRING, MD.
Analysis and summary of OTEC (Ocean Thermal Energy Conversion) cold water pipe costs
[PB83-221002] 01 p0060 N84-10392
Aeronautics systems technology studies
[NASA-CR-174572] 02 p0167 N84-11098
Effects of spacecraft reflections on RF interferometer position location accuracy
[NASA-CR-175244] 18 p2828 N84-27955
Multipath induced errors in meteorological Doppler/interferometer location systems
[NASA-CR-175243] 18 p2844 N84-28058
WARC and CCIR support for spectrum-orbit planning
[NASA-CR-163048] 19 p2979 N84-28884
OPTICAL COATING LAB., INC., CITY OF INDUSTRY, CALIF.
Silicon solar cell process development, fabrication and analysis
[NASA-CR-173950] 23 p3787 N84-34020
OPTICAL COATING LAB., INC., SANTA ROSA, CALIF.
Damage thresholds of thin film materials and high reflectors at 248 nm
[DE83-012663] 03 p0380 N84-12472
Recent damage results for antireflection coatings at 355 NM
[DE84-011560] 21 p3371 N84-31388
OPTICAL DESIGN SERVICE, TUCSON, ARIZ.
An optical analysis of the Farrand VCASS (Visually Coupled Airborne Systems Simulator) helmet-mounted display
[AD-A136649] 10 p1430 N84-19350
OPTICAL SOCIETY OF AMERICA, WASHINGTON, D. C.
Topical Meeting on Optical Bistability
[AD-A138998] 14 p2231 N84-24381
OPTISCHE WERKE G. RODENSTOCK, MUNICH (WEST GERMANY).
Simulation of the reaction of optical systems in the manufacturing process
[BMFT-FB-T-84-128] 23 p3728 N84-33622
OPTRA, INC., EVERETT, MASS.
Rapid identification of micro-organisms
[AD-A132831] 06 p0886 N84-15759
Fiber optic current probe
[DE84-007964] 19 p3105 N84-29729
ORANGE FREE STATE UNIV., BLOEMFONTEIN (SOUTH AFRICA).
Various solutions in multiple Bayesian's decision and multinormal estimation problems
[TR-78] 04 p0588 N84-13882
A predictive view of the detection of influential observations in Gmanova
[CSIR-TR-83] 04 p0591 N84-13904
Asymptotic null and nonnull distributions of three multivariate test statistics in Gmanova
[TR-82] 04 p0592 N84-13905
A formula for the sputtering yield of polycrystalline materials 06 p0816 N84-15313
Oxygen adsorption and initial oxidation of single crystal first row transition metal and alloy surfaces 06 p0816 N84-15316
Surface segration and diffusion investigations by means of AES 06 p0816 N84-15319
A stopping rule for a multi-person cooperative game
[TR-87] 08 p1222 N84-17981
OREGON GRADUATE CENTER FOR STUDY AND RESEARCH, BEAVERTON.
Evaluation of turbulence induced noise in coherent anti-Stokes Raman scattering
[NASA-CR-166544] 08 p1227 N84-18015
Evaluation of single crystal LaB6 cathodes for use in a high frequency backward wave oscillator tube
[NASA-CR-173343] 10 p1485 N84-19709
Analysis of microstructure and strengthening mechanisms in laser surface alloyed Fe-Cr and Fe-C-Cr alloy systems
[AD-A137971] 12 p1797 N84-21722
OREGON HEALTH SCIENCES UNIV., PORTLAND.
Countercurrent distribution of biological cells
[NASA-CR-170958] 06 p0885 N84-15755
OREGON STATE SYSTEM OF HIGHER EDUCATION, MONMOUTH.
The structure of turbulent entraining flow in an annulus with a rotating screen 06 p0832 N84-15416
OREGON STATE UNIV., CORVALLIS.
Effect of low-proof fuel alcohol on crankcase oil dilution in an Otto-cycle engine
[DE83-016425] 01 p0091 N84-10594
CTD transect of the Kuroshio Extension 27-42 deg N, 152 deg E
[AD-A131329] 01 p0111 N84-10721
Passive source localization from spatially correlated angle-of-arrival data
[AD-A133141] 06 p0822 N84-15362
Phase transformation study of Cu2S
[AD-A135587] 09 p1279 N84-18352
TDPAC (Time Differential Perturbed Angular Correlations) study of liquid and amorphous se sub (1-x)Te sub x alloys
[AD-A135588] 09 p1279 N84-18353
Laboratory evaluation of novel particulate control concepts for jet engine test cells
[AD-A137641] 11 p1620 N84-20603
A 2-step bilinear filtering approximation
[AD-A138350] 12 p1894 N84-22338
Bayes least squares linear regression is asymptotically full Bayes: Estimation of spectral densities
[AD-A138351] 12 p1897 N84-22352
Neutron radiographic study of liquid propellant combustion 13 p1949 N84-22669
On a simple adaptive tracking filter
[AD-A138955] 13 p2033 N84-23186
Undersea sound speed and range estimation
[AD-A138954] 13 p2040 N84-23237
Experiments examining the shapes of isolated bars in comparison with those occurring in braided rivers 13 p2084 N84-23503
The erosion of streamlined islands, longitudinal grooves and scour marks: Implications to the origin of the Martian outflow channels 13 p2084 N84-23504
Review of preliminary analysis techniques for tension structures
[AD-A139853] 15 p2350 N84-25110
Linearized model for wind turbines in yaw 17 p2722 N84-27325
A numerical study of the coastal stratus cloud in a two-dimensioanl meso-scale model 17 p2733 N84-27371
The rapid sampling vertical profiler MILDEX, October-November 1983
[AD-A140965] 18 p2892 N84-28356
WAZP observations during MILDEX October-November 1983
[AD-A141048] 18 p2893 N84-28358
Preliminary study of a radiantly heated fluidized bed for the production of high purity silicon
[NASA-CR-173758] 19 p3050 N84-29352
Wind energy assessment studies in the Goodnoe Hills and Cape Blanco areas
[DE84-010087] 19 p3059 N84-29409

Nonlinear observability and mixed-coordinate bearing-only signal processing
[AD-A141624] 19 p3088 N84-29603
Hierarchial command, control and coupled bilinear systems
[AD-A142401] 20 p3280 N84-30823
State estimation and control of conditionally linear systems
[AD-A142455] 20 p3281 N84-30826
Analysis of wind turbines in yaw
[DE84-013620] 21 p3435 N84-31794
Regional Wind Energy Assessment Program report. Appendix: Wind statistics summaries
[DE84-011835] 21 p3448 N84-31876
Regional wind energy assessment program
[DE84-011832] 21 p3448 N84-31878
Calculation of the pressure distribution on a pitching airfoil with application to the Darrieus rotor
[DE84-013571] 22 p3532 N84-32363
Paleomagnetism, rock magnetism and diagenesis in hemipelagic sediments from the northeast Pacific Ocean and the Gulf of California 22 p3621 N84-32944
Wake studies at the flowind vertical axis wind turbine generator site
[DE84-014837] 23 p3691 N84-33392
Thermistor chain observations during MILDEX (mixed layer dynamics experiment)
[AD-A143933] 23 p3803 N84-34114
A boundary layer parameterization for a general model
[AD-A144224] 24 p3915 N84-34791

OREGON UNIV., EUGENE.
Relativistic calculations and measurements of energies, Auger rates and lifetimes
[AD-A130094] 01 p0141 N84-10924
Amplitude analysis of elastic p-p scattering at 6 GeV/c at all t's
[DE83-015875] 02 p0291 N84-11909
Theory of elementary particles
[DE83-015904] 03 p0437 N84-12871
Liouvillian Green's-function theory of spectral line shape
[AD-A132467] 04 p0589 N84-13894
Pacific Northwest solar radiation data
[DE84-002335] 06 p0882 N84-15738
Relativistic calculations and measurements of energies, Auger rates, and lifetimes
[AD-A143423] 22 p3663 N84-33220

ORGANIZATION RESEARCH GROUP OF TIDEWATER, INC., NORFOLK, VA.
A questionnaire assessment of estimated radiation effects upon military task performance
[AD-P003254] 18 p2905 N84-28421

OSAKA ELECTRO-COMMUNICATION UNIV. (JAPAN).
Fuzzy reasoning under new compositional rules of inference
[AD-P002364] 14 p2194 N84-24155
Retrieval for remote sensing image data base with multimedia user interface 23 p3766 N84-33870

OSAKA UNIV. (JAPAN).
Dense plasma focus research at the Institute of Laser Engineering, Osaka (Japan) 10 p1581 N84-20360
Diagnostics and simulation in G-XII implosion experiments 11 p1735 N84-21316
Atomic processes for modeling of inertial confinement fusion plasma 11 p1735 N84-21317
Atomic hydrogen beam probing with spectroscopic technique 11 p1736 N84-21324
A fast complementation algorithm for sum-of-products expressions of multiple-valued input binary functions
[AD-P002339] 14 p2191 N84-24130
A blowup phenomenon of the working fluid in a two-phase closed thermosyphon 20 p3169 N84-30122

OSAKA UNIV., TOYONAKA (JAPAN).
On the probability of undetected error for the maximum distance separable codes
[NASA-CR-170604] 02 p0279 N84-11829

OSSERVATORIO ASTRONOMICO, BRERA, MILAN (ITALY).
Some applications of multiple regression analysis 09 p1410 N84-19220
Discriminant analysis in astronomy 09 p1411 N84-19223

OSSERVATORIO ASTRONOMICO, PADOVA (ITALY).
An automatic procedure to reduce a large amount of spectrophotometric data 09 p1409 N84-19212
The preparation of the measurements at the PDS at the Padova Observatory: Report on an experience with the development of an astronomical data base environment 18 p2843 N84-28050

OSSERVATORIO ASTRONOMICO, TRIESTE (ITALY).
An automatic fitting procedure for comparing observed and computed spectral distributions 09 p1408 N84-19200
A classification algorithm for star-galaxy counts 09 p1409 N84-19207
The PDS-VAX intelligent plate scanning system of Trieste Astronomical Observatory 18 p2841 N84-28035
IUE impact on the studies of the Zeta Aur, Algol and W Ser interacting binary systems 24 p3971 N84-35142
Use of high resolution IUE spectra of MG 2 in cool stars to probe the local interstellar medium 24 p3973 N84-35156
An upper limit to the Beryllium abundance in the population 2 star HD 140283 from a high resoluion IUE spectrum 24 p3974 N84-35167
IUE spectra of three A0 V stars rotating close to their break-up velocity: HD 119921, HD 129685, HD 181296 24 p3975 N84-35172
An IUE study of Be stars with Fe 2 emissions in the visible 24 p3976 N84-35186
The spectrum of the symbiotic star CH Cygni in January 1984 24 p3980 N84-35210
A study of mass accretion in Algol from high resolution IUE spectra 24 p3980 N84-35213
Observed particularities during the eclipse of Epsilon Aurigae 24 p3980 N84-35214
Standard stars: Automatic line identification of IUE high resolution spectra 24 p3981 N84-35225

OSSERVATORIO TICINESE, LOCARNO-MONTI (SWITZERLAND).
Digital radar information in the Swiss Meteorological Institute 18 p2886 N84-28319
Presentation of 5 films to illustrate the theory of precipitation measurements by radar 18 p2889 N84-28336

OTAGO UNIV., DUNEDIN (NEW ZEALAND).
Polarization switching with J=1/2 to J=1/2 atoms in a ring cavity 14 p2237 N84-24423
Polarization switching with sodium vapour 14 p2239 N84-24445

OTTAWA UNIV. (ONTARIO).
A united fracture kinetics representation of the three regions of stress corrosion cracking 15 p2307 N84-24842
Studies of the electric field distribution in biological bodies: Experimental dosimetry at radio frequencies
[AD-A143507] 22 p3628 N84-32992

OULU UNIV. (FINLAND).
Observations of short period magnetic pulsations during the SBARMO-79 campaign: Data summary
[REPT-90/1982] 13 p2012 N84-23052
Quick-look tables of continuous pulsations (Pc1) and Intervals of Pulsations of Diminishing Periods (IPDP) magnetic pulsation events recorded in Finland during IMS years 1976-1979: Data summary
[REPT-92/1982] 13 p2012 N84-23053
Absolute photopeak efficiency values for an intrinsic well-type Ge detector in the gamma ray region 0.1 to 3.0 MeV
[REPT-2(1984)] 18 p2900 N84-28398
Polyphase tectonics of the Oceanus Procellarum area on the Moon 23 p3841 N84-34364
Terra scarps indicating youngest terra faults on the Moon 23 p3841 N84-34365
Numerical simulations of collisions in self-gravitating systems 24 p3987 N84-35237
Planetary tectonics 24 p3990 N84-35247

OVERSEAS RELATIONS BRANCH TRANSLATION SERVICE, LONDON (ENGLAND).
Transient overvoltages on cable sheaths
[BLL-OA-TRANS-2620-(6196.3)] 01 p0069 N84-10448
Investigation of the possibilities for the electrodeposition of titanium from non-aqueous solutions
[BLL-OA-TRANS-3069-(6196.3)] 04 p0498 N84-13267
Current state of titanium coating methods
[BLL-OA-TRANS-3067-(6196.3)] 04 p0498 N84-13268
The effect of water on the dielectric performance of a cable
[BLL-OA-TRANS-2634-(6196.3)] 04 p0524 N84-13447
Service experience of EDF 20 kV XLPe insulated cable
[BLL-OA-TRANS-2633-(6196.3)] 04 p0524 N84-13448
Temperature rise of handles and knobs
[BLL-OA-TRANS-3047-(6196.3)] 04 p0533 N84-13502
Radial thermomechanical behaviour
[BLL-OA-TRANS-2639-(6196.3)] 04 p0533 N84-13503
A melt for the electrolytic application of titanium plating
[BLL-OA-TRANS-3111-(6L96.3)] 06 p0804 N84-15241
Vacuum ionic carburisation
[BLL-OA-TRANS-3149-(6196.3)] 08 p1122 N84-17291
Applications of solvent extraction in hydrometallurgy
[BLL-OA-TRANS-3162-(6196.3)] 08 p1126 N84-17334
Nitriding with a pulsed glow discharge
[BLL-OA-TRANS-3168-(6169.3)] 08 p1128 N84-17335
The electrochemical behaviour of titanium platinum alloys in anodic oxidation processes. 1: Kinetics and selectivity of the process of the combined formation of O2, H2S2O8 and O3 on the titanium-platinum alloy
[BLL-OA-TRANS-3093-(6196.3)] 08 p1128 N84-17336
Electrodeposition method
[BLL-OA-TRANS-3134-(6196.3)] 08 p1128 N84-17337
Production of titanium powders by the electrolysis of chloride-fluoride melts with a soluble anode
[BLL-OA-TRANS-3136-(6196.3)] 08 p1128 N84-17338
Process and cell arrangement for producing difficult to reduce elements by fused salt electrolysis
[BLL-OA-TRANS-3137-(6196.3)] 08 p1129 N84-17339
Method and apparatus for the rapid determination of gases, oxygen in particular, and of the combined forms in which they are present in metals
[BLL-OA-TRANS-3127-(6196.3)] 08 p1129 N84-17340
Optimization of the parameters of the arc suppressing system of high-voltage apparatuses with a thyristor attachment
[BLL-OA-TRANS-3139-(6196.3)] 08 p1149 N84-17476
Infrared heating
[BLL-OA-TRANS-3121-(6196.3)] 08 p1154 N84-17512
Heat pump units with electrically driven compressors for water heating
[BLL-OA-TRANS-3181-(6196.3)] 08 p1154 N84-17514
The cathode material for a plasma-arc heater
[BLL-OA-TRANS-3126-(6196.3)] 08 p1232 N84-18053
Problems encountered in connection with the removal of small concentrations of noxious gases by the use of liquid absorbents
[BLL-OA-TRANS-3182-(6196.3)] 09 p1277 N84-18337
Electroplated metal coatings produced by fused salt electrolysis
[BLL-OA-TRANS-3140-(6196.3)] 09 p1281 N84-18366
The evaporation of iron and its alloying elements, copper and manganese, under reduced pressure using the levitation melting technique
[BLL-OA-TRANS-3117-(6196.3)] 09 p1281 N84-18367
Method for forming an insulating film on electromagnetic steel sheet
[BLL-OA-TRANS-3124-(6196.3)] 09 p1281 N84-18368
A melt for electrolytic tungsten plating
[BLL-OA-TRANS-3160-(6196.3)] 09 p1281 N84-18369
Research into the electrodeposition of antimony
[BLL-OA-TRANS-3112-(6196.3)] 09 p1305 N84-18533
Extra losses in the inductor windings of induction heaters and electric machines
[BLL-OA-TRANS-3114-(6196.3)] 09 p1306 N84-18534
The effect of pressure on complex heat exchange in a channel with an electric arc
[BLL-OA-TRANS-3090-(6196.3)] 09 p1311 N84-18569
Rotating cathode device for molten salt bath
[BLL-OA-TRANS-3173-(6196.3)] 09 p1317 N84-18604

OWENS-ILLINOIS GLASS CO., TOLEDO, OHIO.
Evaluation of NRL glass for fiber optics, phase 2
[AD-A136017] 09 p1390 N84-19076

OXFORD UNIV. (ENGLAND).
Convolution of generalized vector measures 04 p0577 N84-13803
A proposed method for model temperature conditioning in cryogenic wind tunnels
[OUEL-1480/83] 07 p0960 N84-16224
Wind tunnel study of natural gas dispersion from models of pipeline fractures and measurements of source characteristics
[OUEL-1466/83] 07 p1005 N84-16516

Some considerations on boundary integral equation method: A dynamic program for two-dimensional fracture mechanics problems
[OUEL-1468/83] 07 p1017 N84-16600
Articles in self-tuning and adaptive control
[OUEL-1474/83] 07 p1057 N84-16845
Introduction to self-tuning controllers
07 p1057 N84-16846
Implementation of self-tuning controllers
07 p1057 N84-16847
The AMTE/OUEL underwater jet noise rig
[OUEL-1491/83] 07 p1070 N84-16953
Work done on D. P. machine
[OUEL-1488/83] 07 p1079 N84-17012
On optimality OLF control
[OUEL-1493/83] 10 p1567 N84-20263
On equivalence between optimal stochastic control and open-loop feedback control 10 p1567 N84-20264
About equivalence between closed-loop and open-loop feedback controls 10 p1567 N84-20265
Stresses round a circular hole in a uniform plate subject to hydrostatic compression, under various conditions of support, in plane stress and plane strain
[OUEL-1497/83] 12 p1827 N84-21910
Representations of uncertainty and robustness
[OUEL-1489/83] 12 p1892 N84-22322
Adequate/inadequate representations of uncertainty and their implications for robustness analysis
[OUEL-1498/83] 12 p1892 N84-22323
NIPROP: A computer package for the thermodynamic and thermophysical properties of nitrogen
[OUEL-1485/83] 12 p1917 N84-22487
Wind tunnel modelling of buoyant plumes
[OUEL-1513/84] 15 p2256 N84-24552
The effect of cooling rate from the gamma-phase on the strain-rate sensitivity of a uranium 2w/o molybdenum alloy
[OUEL-1492/83] 15 p2296 N84-24779
Tensile impact testing of fibre-reinforced composites
15 p2316 N84-24901
High rate straining and mechanical properties of materials
[OUEL-1502/83] 15 p2350 N84-25106
A computer package for designing pH regulation systems 15 p2391 N84-25344
An implementation of Watson's algorithm for computing 2-dimensional Delaunay triangulations
[OUEL-1509/83] 15 p2391 N84-25345
A review of the basic concepts of dense gas dispersion with special regard to modelling of heat transfer
[OUEL-1512/84] 16 p2487 N84-25952
Fracture initiation in glass-reinforced plastics under impact compression
[OUEL-1516/84] 19 p3037 N84-29265
Representation of uncertainty and robustness tests for multivariable feedback systems
[OUEL-1517/84] 19 p3091 N84-29627
Extensions of the small-mu test for robust stability
[OUEL-1518/84] 19 p3091 N84-29628
An H sup inf minimax approach to the design of robust control systems
[OUEL-1520/84] 19 p3091 N84-29629
A robustness test for distributed feedback systems
[OUEL-1522/84] 19 p3091 N84-29630

P

PACIFIC MISSILE TEST CENTER, POINT MUGU, CALIF.
Tidal and lunar data for Point Mugu, San Nicolas Island and the Barking Sands area, 1984
[AD-A135243] 09 p1351 N84-18828
PACIFIC NORTHWEST LAB., RICHLAND, WASH.
Status of wind-turbine wakes research in the federal wind energy program
[DE83-013828] 01 p0005 N84-10033
Improved corrosion resistance of fine-grained 304 stainless steel in H20-CO-CO2-N2 atmospheres
[DE83-013755] 01 p0046 N84-10295
Methanol production by catalytic gasification of wood
[DE83-013744] 01 p0053 N84-10341
Technical and economic investigations of a low-temperature Rankine-cycle heat engine
[DE83-016757] 01 p0091 N84-10596
Making use of wind energy: A course in evaluating and choosing sites for small wind machines
[DE83-014945] 01 p0109 N84-10707
Using the glyph concept to create user-definable display formats
[DE83-013831] 01 p0124 N84-10806
Low-level radioactive waste disposal in the oceans
[DE83-013367] 01 p0145 N84-10956
Hydrogen embrittlement of a 12 Cr-1 Mo steel
[DE83-016781] 02 p0195 N84-11270
Corrosion-resistant behavior of amorphous and crystallized Fe-Ni-Cr-W alloys
[DE83-016815] 02 p0197 N84-11280
Test application of a semi-objective approach to wind forecasting for wind-energy applications
[DE83-016641] 02 p0256 N84-11676
Concepts of dose to soft tissue at the cellular level
[DE83-013830] 02 p0266 N84-11748
Evaluation of a draft standard on performance specifications for health physics instrumentation
[DE83-016169] 02 p0266 N84-11749
Evaluation of a draft standard on performance specifications for health physics instrumentation
[DE83-016186] 02 p0266 N84-11750
Applied extreme-value statistics
[DE83-013347] 02 p0285 N84-11870
TRAN-STAT (statistics for environmental studies) no. 20, May 1982
[DE83-015096] 02 p0285 N84-11871
Vitrification of highly-loaded SDS zeolites
[DE83-006198] 02 p0292 N84-11915
Disparate changes in the physical properties of graphite
[DE83-015986] 03 p0357 N84-12321
Initial operation of the compressed air experiment at Pittsfield, Illinois
[DE83-016930] 03 p0404 N84-12643
Innovative industrial-materials processes
[DE83-016784] 03 p0405 N84-12649
Detecting long-term ecological effects in forests and food chains
[DE83-003469] 03 p0406 N84-12655
Estimating long-term mean winds from short-term wind data
[DE83-017417] 03 p0412 N84-12693
A subsynoptic environment associated with two inter-mountain severe thunderstorm events
[DE83-014498] 03 p0412 N84-12694
TRAN-STAT (statistics for environmental studies). Issue no. 24: Field sampling designs, simple random and stratified random sampling
[DE83-016826] 03 p0427 N84-12803
Weighted nonparametric tail estimation procedures
[DE83-017870] 03 p0428 N84-12804
Development of materials for open-cycle MHD
[DE83-016334] 03 p0445 N84-12926
Management of QA in an R and D organization
[DE83-016924] 03 p0458 N84-13014
Grain boundary segregation and environmental degradation of a ferritic stainless steel
[DE83-016927] 04 p0502 N84-13289
Modeling crack-growth processes in fusion-reactor materials
[DE84-000477] 04 p0502 N84-13291
Radiation-induced phosphorus segregation in austenitic and ferritic alloys
[DE84-000903] 04 p0504 N84-13302
Dislocation/obstacle interactions during low-dose irradiation creep of nickel
[DE84-001416] 04 p0504 N84-13303
Pulsed-ion-irradiated microstructures in molybdenum
[DE84-000679] 04 p0504 N84-13304
Relationships between strength, electrical conductivity, and density for oxidized PGX graphite
[DE83-016184] 04 p0507 N84-13325
Physical modeling of the champagne effect
[DE84-001813] 04 p0516 N84-13388
A guide for effluent radiological measurements at DOE installations
[DE83-016639] 04 p0538 N84-13542
Atomic-beam density determination from laser-induced fluorescence interval distributions
[DE84-000677] 04 p0542 N84-13571
Transport assessment: Arid task. Model verification studies
[DE84-000121] 04 p0555 N84-13653
Mobility of organic complexes of nickel and cobalt in soils
[DE83-017897] 04 p0564 N84-13720
Use of fauna as biomonitors
[DE83-016082] 04 p0571 N84-13762
Life histories and monitoring strategies: Some lessons from field experience
[DE83-016164] 04 p0571 N84-13763
Developing computer-graphics programs for specialized applications
[DE83-016181] 04 p0581 N84-13836
Double beta decay: Recent developments and projections
[DE84-000476] 04 p0598 N84-13944
Radiation hardening of oxygen-doped niobium by 14-MeV neutrons
[DE84-000103] 04 p0610 N84-14026
Management and display of data analysis environments for large data sets
[DE84-001414] 04 p0616 N84-14069
Data dictionary model for relational databases
[DE84-002584] 05 p0759 N84-14981
ALDS project: Motivation, statistical database management issues, perspectives, and directions
[DE84-001412] 05 p0760 N84-14983
Scaling wind characteristics for designing small and large wind turbines
[DE83-014501] 06 p0880 N84-15728
Microstructure and phase composition of sputter-deposited zirconia-yttria films
[DE84-003352] 07 p1082 N84-17039
Corrosion behavior of Ni(+)-ion irradiated NiTi alloys
[DE84-003891] 09 p1285 N84-18392
Geostatistics software user's manual for the Geosciences Research and Engineering Department PDP 11/70 computer
[DE84-004149] 09 p1369 N84-18940
Advanced cleaning by mass finishing
[DE84-004850] 10 p1472 N84-19612
Wire tensile testing for radiation hardening experiments
[DE84-005884] 11 p1634 N84-20684
Potential transport errors in single-layer wind fields
[DE84-003446] 11 p1675 N84-20932
Weather pattern climatology of the US
[DE84-005883] 11 p1688 N84-21011
Architecture for a user interface management system
[DE84-003982] 11 p1710 N84-21146
Preparation and properties of electrically conducting ceramics based on indium oxide-rare Earth oxides-hafnium oxide 11 p1741 N84-21360
TRAN-STAT statistics for environmental studies. Statistical distributions for contaminant studies, and the estimation of average concentrations
[DE84-006579] 12 p1845 N84-22029
Biological effects of electric fields: An overview
[DE84-005888] 12 p1864 N84-22144
Relationship of regional water quality to aquifer thermal energy storage
[DE84-006649] 14 p2169 N84-23992
Simulation of winds as seen by a rotating vertical axis wind turbine blade
[DE84-009033] 14 p2180 N84-24056
Supercritical fluid methods in analytical chemistry
[DE84-008289] 15 p2288 N84-24728
Corrosion of carbon steel in oxidizing caustic solutions
[DE84-000209] 15 p2298 N84-24792
Measurement of unsaturated flow below the root zone at an arid site
[DE84-006575] 15 p2359 N84-25158
Whole building performance monitoring: Measurements on baseline buildings 16 p2515 N84-26145
Monitored retrievable storage program. Status and plans for meeting NWPA requirements
[DE84-008680] 18 p2931 N84-28585
Survey and analysis of materials research and development at selected federal laboratories
[DE84-008904] 20 p3145 N84-29967
Solving corrosion problems with surface analysis
[DE84-008652] 20 p3154 N84-30025
Sputter-deposited metallic and ceramic coatings for heat engines
[DE84-011401] 20 p3154 N84-30030
Environmental assisted fracture of cast and wrought steels in brine
[DE84-011870] 20 p3158 N84-30058
INFIL1D: A quasi-analytical model for simulating one-dimensional, constant flux infiltration
[DE84-008905] 20 p3187 N84-30250
Qualifications of ultrasonic testing for nuclear inservice inspection applications
[DE84-011899] 20 p3200 N84-30323
Overview of wind turbine siting considerations
[DE84-011686] 20 p3237 N84-30547
Identification and preliminary characterization of global water resource issues which may be affected by CO2-induced climate change
[DE84-011127] 20 p3246 N84-30604
Worldwide energy resource distribution estimates
[DE84-012216] 20 p3248 N84-30612
US average wind power by season
[DE84-012214] 20 p3248 N84-30613
A user-oriented laboratory data entry computer system designed to reduce errors
[DE84-011901] 20 p3267 N84-30730
Development of a document preparation staff within an office automation environment
[DE84-008649] 20 p3313 N84-31041
Analytical characterization of coatings and thin overlayers
[DE84-011902] 21 p3371 N84-31389
State of technology of direct contact heat exchanging
[DE84-012824] 21 p3402 N84-31585
Holographic investigation of thermal nonequilibrium vapor generation
[DE84-011905] 21 p3406 N84-31607

Optical coating materials for the ultraviolet: Selection and characterization
[DE84-011504] 21 p3410 N84-31629
Measurement of turbulent wind velocities using a rotating boom apparatus
[DE84-012417] 21 p3448 N84-31875
US annual average wind power
[DE84-012215] 21 p3448 N84-31877
Algorithm for secondary electron emission from water vapor by high velocity ions
[DE84-011871] 21 p3494 N84-32142
Large HAWT (Horizontal-Axis Wind Turbine) wake measurement and analysis
[DE84-013269] 22 p3596 N84-32772
Develop real-time dosimetry concepts and instrumentation for long-term missions
[NASA-CR-171809] 22 p3599 N84-32791
Verification of hourly forecasts of wind turbine power output
[PNL-4900] 22 p3616 N84-32914
Wind shear for large wind turbine generators at selected tail tower sites
[DE84-011790] 22 p3626 N84-32974
Basic principles and recent observations of rotationally sampled wind
[DE84-013267] 22 p3626 N84-32976
Basic geometric algorithms for use with graphic input
[DE84-013256] 22 p3642 N84-33090
Aircraft, ships, spacecraft, nuclear plants and quality
[DE84-013262] 22 p3655 N84-33166
Project summaries, supplement
[DE84-013678] 23 p3744 N84-33734
Seasonal thermal energy storage
[DE84-013854] 23 p3791 N84-34042
Historical carbon dioxide: Abundances derived from the Smithsonian spectrobolograms
[DOE/NBB-0063] 23 p3793 N84-34056
A guide for disposition of radioactive material sources
[DOE/EP-0088] 23 p3824 N84-34251
Rotationally sampled wind characteristics and correlations with MOD-0A wind turbine response
[PNL-5238] 24 p3916 N84-34794

PACIFIC-SIERRA RESEARCH CORP., LOS ANGELES, CALIF.
Estimated effects of ionizing radiation upon military task performance: Individual combat crewmember assessment
[AD-P003255] 18 p2905 N84-28422

PACIFIC SOUTHWEST FOREST AND RANGE EXPERIMENT STATION, BERKELEY, CALIF.
WNDCOM: Estimating surface winds in mountainous terrain
[PB84-157700] 13 p2018 N84-23083

PACIFICA-SIERRA RESEARCH CORP., LOS ANGELES, CALIF.
Initial human response to nuclear radiation
[AD-A137543] 11 p1694 N84-21054

PADERBORN UNIV. (WEST GERMANY).
Recycling conform design 23 p3705 N84-33488

PAKISTAN SPACE AND UPPER ATMOSPHERE RESEARCH COMMITTEE, KARACHI.
Space research in Pakistan: A relentless pursuit 21 p3346 N84-31227

PAN AMERICAN UNIV., EDINBURG, TEX.
Seasonal soybean crop reflectance
[E84-10049] 04 p0553 N84-13642

PANNATONI (RONALD F.), MORRISTOWN, N.J.
A new eigenfunction expansion and its application to waveguide acoustics
[AD-A138946] 13 p2040 N84-23236

PAPIERMOLEN 4, LEIDEN (NETHERLANDS).
Multi-dimensional continued fraction algorithms 08 p1225 N84-18003

PAR ENTERPRISES, INC., FAIRFAX, VA.
Assessment of the BCL and ORL chemical heat pumps
[DE83-011450] 01 p0080 N84-10518

PARIS-SUD UNIV., ORSAY (FRANCE).
Investigation of a microwave discharge in argon/helium mixtures
[LP-202] 07 p0995 N84-16451
New results of the ACO storage ring free electron laser
[AD-A137785] 11 p1663 N84-20848
Ion-ion correlations and phase transitions in nascion type materials 11 p1743 N84-21375
The Fourier Plancherel transform of the analytic Lie group. 1: Weyl algebras and differential operators 13 p2032 N84-23176
A result on extension of C.R. functions 14 p2210 N84-24270
Density and dimension 14 p2211 N84-24275
Microwave discharges in capillary tubes
[LP-203] 16 p2558 N84-26410
Role of excitation frequency in discharges created by surface waves
[LP-205] 16 p2558 N84-26411
The role of metastables in reactive plasmas
[LP-206] 19 p3109 N84-29756
The Fourier Plancherel transform for Lie groups. 2: Nilpotent groups 22 p3634 N84-33026
Characterizations of zeros in the functions of some Nevanlinna type classes in the bidisk 22 p3634 N84-33029
Uniqueness in the Cauchy problem for second order operators with real symbols 22 p3636 N84-33045
Bounded Hessian functions 22 p3636 N84-33048
Interstellar lines in high resolution IUE spectra of run-away B type stars 24 p3973 N84-35160

PARIS UNIV. (FRANCE).
Ten years of Hoare's logic, a survey. Part 2: Nondeterminism 08 p1209 N84-17882

PARIS UNIV., ORSAY (FRANCE).
Anomalous laser induced bunch lengthening on the ACO storage ring free electron laser
[AD-A138814] 13 p1995 N84-22949
UV and VUV degradation of very high reflectivity mirrors for use in a storage ring free electron laser
[AD-A138740] 13 p2043 N84-23255

PARIS V UNIV. (FRANCE).
Managerial and organizational determinants of efficiency in research teams (social sciences)
[AD-A144153] 24 p3968 N84-35125

PARIS VI UNIV. (FRANCE).
Least squares and domain decomposition methods applied to the numerical solution of nonlinear problems in fluid dynamics 06 p0839 N84-15468
Stability of C* algebras of a folliated manifold 14 p2211 N84-24273
Periodic orbits and libration in the Mimas-Tethys case 19 p3121 N84-29839
Analytic automorphisms of a bounded Reinhardt domain in a complex Banach space with base 22 p3636 N84-33044
Brownian motion and random walks on manifolds 22 p3636 N84-33051
Solid state batteries, literature survey, analysis of pertinent results and prospective for further research
[AD-A144252] 24 p3897 N84-34679

PARIS XI UNIV., ORSAY (FRANCE).
Research and development for investigations of metallic adsorptions on metal surfaces by optical techniques complemented by dc resistivity and auger spectroscopy
[AD-A131739] 03 p0361 N84-12351

PARKER (LEE W.), INC., CONCORD, MASS.
Contributions to satellite sheath and wake modeling 08 p1117 N84-17266
A model of electrostatic charging and sheath structure of GIOTTO near Halley's comet 08 p1118 N84-17274
Sheath shapes: A 3-D generalization of the Child-Langmuir sheath model for large high-voltage space structures in dense plasmas
[AD-P002124] 16 p2525 N84-26210

PASTEUR (LOUIS) UNIV., STRASBOURG (WEST GERMANY).
Optical bistability in CuCl 14 p2241 N84-24456

PATENT AND TRADEMARK OFFICE, WASHINGTON, D. C.
Design patents
[PB83-224063] 05 p0760 N84-14985

PATRAS UNIV. (GREECE).
Researching the man-machine system as a function of soil-environment system 10 p1511 N84-19894
A stochastic model for the Man-Machine-Soil-Environment System (MMSES) and the influence of vibrations 10 p1512 N84-19895

PATTERN ANALYSIS AND RECOGNITION CORP., NEW HARTFORD, N.Y.
Advanced pattern recognition
[AD-A132339] 04 p0604 N84-13987
ECM (Electronic Counter Measure) signal discrimination and identification techniques
[AD-A133427] 06 p0824 N84-15372
Operational test and evaluation of the meter engineering development model
[AD-A125166] 07 p1007 N84-16532
Report on functional design specification for the automated alphanumeric data entry system
[AD-A142518] 20 p3266 N84-30725

PAVIA UNIV. (ITALY).
The search for gravitational waves with ISPM 09 p1263 N84-18241
Future of laser interformetry in space 24 p3906 N84-34737

PDA ENGINEERING, SANTA ANA, CALIF.
Heat transfer measurements in cold wind tunnels
[AD-A135740] 09 p1315 N84-18591

PEDA CORP., PALO ALTO, CALIF.
Universal single level implicit algorithm for gasdynamics
[NASA-CR-166531] 08 p1216 N84-17936

PEDCO-ENVIRONMENTAL, INC., DURHAM, N.C.
A study of personal exposure to carbon monoxide in Denver, Colorado
[PB84-146125] 12 p1866 N84-22161

PEL, INC., BATON ROUGE, LA.
Risk analysis: Comparing different contract types
[AD-P002788] 13 p2056 N84-23335
Interactive risk analysis and development of standardized factors
[AD-A140758] 17 p2753 N84-27473

PENNSYLVANIA COLL. OF OPTOMETRY, PHILADELPHIA.
ERG (Electroretinogram) implicit time: An exploration of high frequency wavelets recorded in the human visual system
[AD-A134575] 08 p1201 N84-17832

PENNSYLVANIA STATE UNIV., MIDDLETOWN.
Teach Ada (trademark) as the student's first programming language?
[AD-P003422] 20 p3270 N84-30754

PENNSYLVANIA STATE UNIV., STATE COLLEGE.
The boundary layer on compressor cascade blades
[NASA-CR-173514] 15 p2332 N84-25001

PENNSYLVANIA STATE UNIV., UNIVERSITY PARK.
An investigation of cavity cycling for ventilated and natural cavities
[AD-A130641] 01 p0078 N84-10511
Mechanisms of wear in single and two-phase materials
[DE83-014651] 01 p0091 N84-10592
Lateral variations in geologic structure and tectonic setting from remote sensing data
[AD-A130758] 01 p0105 N84-10683
Clustering of the least squares lattice PARCOR (partial correlation) coefficients: A pattern-recognition approach to steady state synthetic vowell identification
[AD-A131503] 01 p0134 N84-10876
The performance of small jet noise silencers for industrial applications
[PB83-234047] 02 p0230 N84-11507
A numerical study of the global axisymmetric circulation with varying heating and rotation rates 02 p0246 N84-11607
Applications of Hilbert space theory to optimal and adaptive space-time processing
[AD-A131401] 02 p0286 N84-11876
Free-radical and ion chemistry of volatile silanes, germanes, and phosphines
[DE83-016389] 03 p0350 N84-12277
Acoustic pulse scattering from impedance covered cylinders
[AD-A131653] 03 p0431 N84-12822
A theoretical and experimental study of turbulent particle-laden jets
[NASA-CR-168293] 04 p0485 N84-13187
White light signal processing with the application to spread spectrum communications
[AD-A132418] 04 p0520 N84-13417
Targeted basic studies of ferroelectric and ferroelastic materials for piezoelectric transducer applications
[AD-A132136] 04 p0526 N84-13481
Studies of ions in a drift field: Laser diagnostics of excited states and measurements of thermochemical properties at equilibrium
[DE84-000363] 04 p0541 N84-13562
Development of a technique for short-term prediction of hydrometeors using advection and physical forcing
[AD-A132259] 04 p0567 N84-13740
Physiological responses of normotensives and essential hypertensives to exercise in the heat 04 p0572 N84-13768
Introduction: Advances and opportunities in cluster research
[DE84-000364] 04 p0594 N84-13917
Targeted basic studies of ferroelectric and ferroelastic materials for piezoelectric transducer applications
[AD-A132262] 04 p0612 N84-14043
A very large array 1411 MHz radio survey: Properties of complete samples of radio and optically selected QSO candidates in a high galactic-latitude field 04 p0618 N84-14076
Parametric acoustic array formation via weak collinear and noncollinear interaction in dispersive fluids
[AD-A133660] 05 p0875 N84-14436
Study of field adsorption using pulsed-laser atom-probe field-ion microscopy
[DE84-002280] 05 p0687 N84-14513
Comparison of steady state transitions in truncated spectral and finite difference models of two-dimensional shallow convection 06 p0832 N84-15417
Three-dimensional turbulent boundary layers 06 p0838 N84-15459

Three-dimensional turbulent boundary layers in turbomachines 06 p0838 N84-15460
Analysis of plates by the initial-value method 06 p0863 N84-15622
Combined use of remote sensing and seismic observations to infer geologically recent crustal deformation, active faulting, and stress fields [E84-10057] 06 p0864 N84-15628
Synthesis of regional crust and upper-mantle structure from seismic and gravity data [E84-10061] 06 p0864 N84-15631
A diagnostic case study of the effects of deep extratropical convection on the large-scale temperature and moisture structure 06 p0875 N84-15695
Ocean temperature changes induced by tropical cyclones 06 p0879 N84-15722
Some effects of surface heating and topography on the regional severe storm environment 06 p0880 N84-15723
Utilization of satellite data in mesoscale models of severe weather [NASA-CR-175122] 06 p0881 N84-15730
Acoustic diffraction by an impedance-covered edge [AD-A133266] 06 p0909 N84-15904
Annulus wall boundary layer development in a compressor stage, including the effects of tip clearance 07 p0957 N84-16207
An investigation of tip-wall vortex cavitation in an axial-flow pump [AD-A134357] 07 p1002 N84-16496
Large deformation analysis of a cylindrical shell under pure bending and pressurization 07 p1015 N84-16582
Case studies using GOES infrared data and a planetary boundary layer model to infer regional scale variations in soil moisture [NASA-CR-173250] 07 p1022 N84-16631
International Ultraviolet Explorer observations of Wolf-Rayet binaries: Wind structures [NASA-CR-175235] 07 p1089 N84-17081
The effect of gas bubbles and cavity dimensions on the local electrode potential within pits, crevices and cracks [AD-A134729] 08 p1132 N84-17364
Electrical-shock prevention. Volume 1: Protection of maintenance personnel [PB84-102946] 08 p1206 N84-17865
Electrical-shock prevention. Volume 2: Ground-fault interrupting devices [PB84-102953] 08 p1206 N84-17866
Electrical-shock prevention. Volume 3: Fault protection for motion-drive equipment [PB84-102961] 08 p1206 N84-17867
Electrical-shock prevention. Volume 4: Overhead-line contact fatalities [PB84-102979] 08 p1207 N84-17868
Combustion of agglomerates formed by carbon slurry fuels [AD-A136390] 09 p1278 N84-18345
Cyclic and high polymeric phosphazenes as carrier molecules for carboranyl, metallo, or bioactive side groups [AD-A135656] 09 p1288 N84-18407
Biophysical mechanism of differential growth during gravitropism 09 p1356 N84-18861
Structure of glasses containing transition metal ions [DE84-004211] 10 p1468 N84-19591
Frontogenesis in a moist atmosphere 10 p1542 N84-20106
Predictions of spray combustion interactions 11 p1609 N84-20532
Kinematic analysis of Hurricane Frederick (1979) using satellite, aircraft and Rawinsonde data [NASA-CR-175430] 11 p1685 N84-20988
Development of a data management front-end for use with a LANDSAT-based information system [NASA-CR-175151] 11 p1749 N84-21418
International ultraviolet explorer observations of Wolf-Rayet binaries: Wind structures 11 p1757 N84-21467
Transparent conductive coatings 12 p1840 N84-21999
Rank-based inference for linear models: Asymmetric errors [AD-A138404] 12 p1894 N84-22340
Advances in white-light optical signal processing 12 p1905 N84-22406
Direct measurement of high frequency solid propellant response functions 13 p1945 N84-22649
Nitramine propellant ignition under rapid gas loading conditions 13 p1950 N84-22677
On the limiting electrode potential in cavities and its role in deciding between SCC (Stress Corrosion Cracking) and HC (Hydrogen Cracking) in metals [AD-A138585] 13 p1955 N84-22713
Organometallic chemistry of weakly solvated transition metal cations [DE84-006987] 13 p1958 N84-22726
Carboranylmethylene-substituted phosphazenes and polymers thereof [NASA-CASE-ARC-11370-1] 13 p1962 N84-22750
Electrical, chemical, and microstructural characterization of gettering mechanisms for VLSI (Very Large Scale Integrated Circuits) [AD-A138662] 13 p1986 N84-22893
State space method for optimal design of shock absorbers with floating boundaries 13 p1998 N84-22966
Geology and geochronology of the southeast border of the Bitterroot Dome: Implications for the structural evolution of the Mylonitic Carapace 13 p2014 N84-23065
Safety eye protection through use of fast acting optical switching [AD-A138582] 13 p2023 N84-23120
H alpha and TiO band observations of RS CVn stars 13 p2069 N84-23410
A rapid method for predicting suction distributions to maintain attached, laminar boundary layers on bodies of revolution [AD-A139125] 14 p2145 N84-23856
Status of new direction of liquid lubricants 14 p2154 N84-23905
The impact resistance of SiC and other mechanical properties of SiC and Si3N4 [NASA-CR-165325] 15 p2301 N84-24809
Optimal design of rotating disk with temperature gradient 15 p2313 N84-24877
Silicon carbide fiber/mullite composites from rapidly solidified aluminosilicate powder [AD-A140529] 16 p2469 N84-25825
Utilization of alternative fuels in diesel engines [NASA-CR-174669] 17 p2628 N84-26813
Experimental study using Nearfield Acoustical Holography of sound transmission fuselage sidewall structures [NASA-CR-173639] 17 p2671 N84-27024
Penn State Get Away Special 18 p2799 N84-27759
Nitramine propellant crack tip ignition and crack propagation of a burning sample under rapid pressurization [AD-A141246] 18 p2811 N84-27848
The structure of evaporating and combusting sprays: Measurements and predictions [NASA-CR-173778] 19 p3021 N84-29155
An inverse laminar boundary layer problem with assigned wall shear: The mechul function revisited [AD-A142328] 19 p3025 N84-29182
A theoretical and experimental study of turbulent nonevaporating sprays [NASA-CR-174668] 20 p3130 N84-29677
Effect of turbulent boundary layer flow on measurement of acoustic pressure and intensity, revised [AD-A142473] 20 p3184 N84-30229
On measuring the acoustic intensity of hydroacoustic sources [AD-A142484] 20 p3291 N84-30893
Blade endwall flows in an axial flow compressor stage 21 p3343 N84-31209
Crystallite size and support effects on CO hydrogenation reactions [DE84-012474] 21 p3360 N84-31314
A space-marching method for the Navier-Stokes equations for internal flows 21 p3397 N84-31550
Mathematical modeling of longitudinal profile adjustment in alluvial streams 21 p3425 N84-31726
Petrography and depositional environment of the Herrin (no. 6) seam in central, eastern and northwestern Illinois 21 p3438 N84-31813
The depositional environments and petrography of the Stirling Quartzite Death Valley Region, California and Nevada 21 p3439 N84-31816
A three-dimensional ray method and its application to the study of wave propagation in crustal structure with curved layers 21 p3439 N84-31821
Acoustic propagation in the surface layer under convectively unstable conditions 21 p3489 N84-32111
A theoretical and experimental study of turbulent evaporating sprays [NASA-CR-174760] 22 p3536 N84-32390
The effects of porous material on microbubble skin friction reduction [AD-A143401] 22 p3593 N84-32756
Heat transfer, fluid flow and element vaporization in laser welding [DE84-011783] 22 p3605 N84-32839
Tape casting of Honeywell PZT type 3 powder [AD-A144215] 24 p3888 N84-34623
The application of satellite data to study the effects of latent heat release on cyclones 24 p3925 N84-34841
The use of satellite data in understanding and predicting convective and large-scale dynamical processes 24 p3925 N84-34842

PENNSYLVANIA TRANSPORTATION INST., UNIVERSITY PARK.

Analytical and experimental study of grooved pavement runoff [AD-A141021] 18 p2798 N84-27752

PENNSYLVANIA UNIV., PHILADELPHIA.

Structure and properties of intercalated graphite fiber-polymer composites [AD-A130832] 01 p0032 N84-10198
Very-high-energy nuclear physics [DE83-013379] 01 p0146 N84-10957
Experimental studies of the geometric and electronic structure of chemisorption bonding [PB83-243949] 02 p0192 N84-11248
Hadron-hadron collider group [DE83-010704] 03 p0437 N84-12865
Topics in graphite intercalation chemistry with applications to fiber reinforced composites 05 p0646 N84-14248
Research in adaptive beamforming for satellite communications [AD-A133733] 05 p0668 N84-14396
A microscopic analysis of brittle fracture in deformable solids 05 p0691 N84-14537
Generating data flow programs from nonprocedural specifications [AD-A132609] 05 p0728 N84-14780
High resolution 3-d tomographic imaging by wavelength and polarization diversity [AD-A134101] 05 p0747 N84-14903
K-type overcontact binaries 05 p0763 N84-15003
Scintillators and waveshifters for fast scintillator-WSB calorimetry 06 p0913 N84-15929
Calorimetry at L = 10/sup 33 06 p0913 N84-15931
Electromagnetic, gravitational, and neutrino waves in flat and curved spacetime 06 p0941 N84-16111
Development of new intercalated cathode materials for use in sodium batteries [NASA-CR-173145] 07 p0997 N84-16460
Photoemission spectroscopy and the optical properties of surface [PB84-100445] 08 p1127 N84-17331
Structural and electrochemical properties of platinum-titanium laser surface alloys 08 p1129 N84-17346
A new approach to polymer chemistry: Organometallic and bioactive phosphazenes [AD-A135429] 08 p1137 N84-17396
A method of measurement of behavioral factors affecting information systems design and use: An application of multidimensional scaling in uncovering individual psychological structure 08 p1239 N84-18099
Deep diode arrays for X-ray detection [NASA-CR-175178] 09 p1306 N84-18537
Importance of gravity for plant growth and behavior 09 p1356 N84-18864
Annealing effects in ferromagnetic amorphous alloys [AD-A136843] 10 p1460 N84-19534
Laminar condensation heat and mass transfer to a drop moving at intermediate or high Reynolds number 11 p1651 N84-20777
Proton transport in beta alumina 11 p1739 N84-21345
Proton transport in beta alumina 11 p1743 N84-21371
Many electron effects in the photoelectron spectra of condensed nitric oxide [AD-A138130] 12 p1791 N84-21681
Theoretical studies of metal clusters and of chemisorption on metals [AD-A138175] 12 p1791 N84-21683
Cyclic deformation and fatigue of monocrystalline Ni-base superalloys [AD-A138052] 12 p1797 N84-21724
The electronic structure of C(2x2)S/Fe(100): S 3p-level dispersions and linewidths. Revision [AD-A138124] 12 p1797 N84-21725
Segregation of Si and Sn to the Fe(100) surface in the Fe-6.2% Si-0.03% Sn alloy [AD-A138154] 12 p1798 N84-21726
Momentum dependent line shapes in photoemission [AD-A137968] 12 p1913 N84-22461
High angular resolution microwave sensing with large, sparse, random arrays [AD-A138717] 13 p1983 N84-22874
Automated dynamic analysis of mechanisms with flexible links 15 p2311 N84-24870
Non-Hertzian rolling contact with longitudinal creepage 15 p2315 N84-24894

Evaluating organizational change through improved understanding of managerial schemata
17 p2771 N84-27596
Investigation of mechanisms underlying odor recognition
[AD-A140969] 18 p2914 N84-28482
High-level operations in nonprocedural programming languages
[AD-A143470] 22 p3640 N84-33078

PENNWALT CORP., KING OF PRUSSIA, PA.
Foamable PVDF fluoroplastic for wire and cable applications 11 p1722 N84-21230

PERCEPTRONICS, INC., MENLO PARK, CALIF.
Alternative knowledge acquisition interface structures
[AD-A139019] 13 p2022 N84-23109

PERCEPTRONICS, INC., WOODLAND HILLS, CALIF.
Mental representation of circuit diagrams: Individual differences in procedural knowledge
[AD-A136876] 10 p1550 N84-20159
Integrating research on perceived and acceptable risk within the psychometric paradigm
[AD-A140833] 17 p2747 N84-27440
Operator alertness/workload assessment using stochastic model-based analysis of myoelectric signals
[AD-A144535] 24 p3937 N84-34921

PERFORMANCE MEASUREMENT ASSOCIATES, INC., VIENNA, VA.
Factors affecting specifications for computer software programs
[AD-A133070] 05 p0730 N84-14792
Transformations of software design and code may lead to reduced errors 13 p2027 N84-23145

PERKIN-ELMER AND CO. G.M.B.H., MUNICH (WEST GERMANY).
Experience in surface analysis applied to technical material problems 06 p0815 N84-15303
Grain boundary segregation and cavity formation in creep embrittled Cr-Mo steels 06 p0817 N84-15320

PERKIN-ELMER CORP., DANBURY, CONN.
Optical coating in space
[NASA-CR-175441] 11 p1731 N84-21290
Optimization of thermal systems with sensitive optics, electronics, and structures
[NASA-CR-3745] 13 p1939 N84-22608
Predictive thermal-vacuum modeling by variable coefficients 24 p3864 N84-34493
Hubble space telescope component qualification utilizing a residual gas analyzer
24 p3865 N84-34497

PHALO CORP., MANCHESTER, N.H.
Breakout cables for short haul fiber optic systems
11 p1728 N84-21270

PHILIPS DATA SYSTEMS B. V., APELDOORN (NETHERLANDS).
Factorization algorithms of exponential order
08 p1224 N84-17994

PHILIPS LABS., BRIARCLIFF MANOR, NEW YORK.
A 10 deg K triple-expansion Stirling-cycle cryocooler
06 p0819 N84-15336
Life test performance of a Philips rhombic-drive refrigerator with bellows seals 06 p0819 N84-15341
A magnetically suspended linearly driven cryogenic refrigerator 06 p0820 N84-15345

PHILIPS MEDICAL SERVICE, EINDHOVEN (NETHERLANDS).
Review of occupational medicine relevant to aviation medicine 22 p3631 N84-33012

PHILIPS TELECOMMUNICATION INDUSTRIES, HILVERSUM (NETHERLANDS).
Correlative phase modulation for fixed satellite services, volume 1 (phase 1)
[PTI-SB-2363-21-3505-VOL-1] 08 p1147 N84-17465
Correlative phase modulation for fixed satellite service-s. Volume 2: Supplementary report
[PTI-SB-2363-21-3794-VOL-2] 08 p1147 N84-17466

PHILIPS ZENTRALLABORATORIUM G.M.B.H., HAMBURG (WEST GERMANY).
Electrophoretic recording of color images with high quality
[BMFT-FB-T-83-319] 12 p1794 N84-21702

PHILLIPS PETROLEUM CO., BARTLESVILLE, OKLA.
Antiwear additive mechanicsms in sliding contacts
14 p2154 N84-23906

PHOENIX CORP., MCLEAN, VA.
Detailed design of a variable volume hydrogen maser
[NASA-CR-175221] 11 p1662 N84-20841
Off-axis coherently pumped laser
[NASA-CASE-GSC-12592-1] 18 p2845 N84-28065

PHOTOMETRICS, INC., WOBURN, MASS.
Determination of stratospheric wind profiles by digital analysis
[AD-A140502] 16 p2531 N84-26251
Turbulent diffusion, dissipation, and winds from calibrated photographs of artificial clouds
[AD-A143231] 22 p3623 N84-32956
Experiments on interaction of keV particle beams with the ionosphere
[AD-A143277] 22 p3623 N84-32957

PHOTOWATT INTERNATIONAL, INC., TEMPE, ARIZ.
Solar cell metallization: Historical perspective
12 p1838 N84-21981

PHRASOR SCIENTIFIC, INC., DUARTE, CALIF.
Ion source for a rocket payload
[AD-A135051] 08 p1121 N84-17289

PHYSICAL DYNAMICS, INC., BELLVUE, WASH.
Improvement of the scintillation-irregularity model in WBMOD
[AD-A131536] 02 p0249 N84-11632
HILAT: A pre-launch overview
[AD-A137266] 11 p1683 N84-20983
The transient gravity wave critical layer
[AD-A141095] 19 p3053 N84-29377

PHYSICAL SCIENCES, INC., ANDOVER, MASS.
Experimental and theoretical studies of laser propulsion phenomenology
[AD-A140995] 18 p2846 N84-28069
Molten carbonate fuel cell performance model update
[DE84-012932] 22 p3589 N84-32733

PHYSICS INTERNATIONAL CO., SAN LEANDRO, CALIF.
Scientific program and abstracts
[DE83-017620] 04 p0601 N84-13967

PHYSICS LAB. RVO-TNO, THE HAGUE (NETHERLANDS).
Experimental and theoretical analysis of the relation between received signal power and signal to noise ratio of a heterodyne laser detection system
[PHL-1983-02] 02 p0228 N84-11495
Investigation into a digital modulation method for a frequency hopping system, using a low bit rate
[PHL-1983-44] 12 p1808 N84-21790
A CW-CO2 laser range finder using heterodyne detection and on-off amplitude modulation
[PHL-1983-34] 12 p1821 N84-21871
PASCAL packages for ASC II file I/O and CDC and dynamic strings
[PHL-1983-18] 12 p1884 N84-22285
Project Noorwijk. Part 4: The radar backscatter of oil spills as measured at platform Noordwijk
[PHL-1983-47] 17 p2725 N84-27344
Project Noordwijk, part 5: Analysis of the fading component of the radar backscatter
[AD-B083044] 19 p3010 N84-29082
Gate arrays
[AD-B082958] 20 p3182 N84-30214
A system for policy analysis in manpower planning. Part 2: Design of the dialogue component
[AD-B082961] 20 p3313 N84-31043

PHYSIKALISCH-TECHNISCHE BUNDESANSTALT, BRUNSWICK (WEST GERMANY).
A contribution to the calculation of measurement uncertainty and optimization of measuring strategies in coordinate measurement
[PTB-ME-39] 02 p0206 N84-11345
Electronic measuring instruments for mixtures of fluids
[PTB-ME-40] 02 p0225 N84-11474
Comparison between vortex flowmeter and pressure flowmeters
[PTB-ME-47] 10 p1499 N84-19800
Process controlled measuring valve acquisition taking example by the noise measuring technique
[PTB-E-25] 16 p2554 N84-26389

PIERCE (ALLAN D.), MARIETTA, GA.
Analytical modeling of random thermal fluctuations in the NORDA (Naval Ocean Research and Development Activity) high-frequency sound scattering facility
[AD-A142520] 20 p3250 N84-30630

PILKINGTON BROS. LTD., ORMSKIRK (ENGLAND).
Robust estimation with censored and grouped data: An application of the EM algorithm
[MATHS-RES-174] 07 p1067 N84-16927

PISA UNIV. (ITALY).
Aerodynamic computation method of airfoil cascades subjected to viscous flow 07 p0956 N84-16198
Precise measurements of bistability in a CO/sub 2 laser with intracavity saturable absorber
14 p2238 N84-24431

PARK (GEORGE W.) SEED CO., INC., GREENWOOD, S.C.
Seeds in space experiment (P0004-1)
15 p2277 N84-24675

PITTSBURGH UNIV., PA.
Computational analyses of unsteady flow past airfoils with flapping and/or pitching motion
01 p0002 N84-10013
Optical pattern recognition for missile guidance
[AD-A130097] 01 p0018 N84-10113
Simulation of systolic networks with a syntax directed solver for systems of sequence equations
[AD-A130232] 01 p0064 N84-10417
Stability of rotating disk flows
01 p0076 N84-10495
Elasto-plastic analysis of plane stress problems using uniaxial symmetric Tresca yield surface and kinematic hardening 01 p0093 N84-10606
Solution manifolds and submanifolds of parametrized equations and their discretization errors
[AD-A130186] 01 p0131 N84-10857
Rejection of multivariate outliers
[AD-A130686] 01 p0133 N84-10870
Likelihood ratio tests on covariance matrices and mean vectors of complex multivariate normal populations and their applications in time series
[AD-A131523] 01 p0133 N84-10874
Study of materials having significance for high energy magnet production and for hydrogen storage
[AD-A130900] 01 p0138 N84-10906
Fundamental research directed to advanced high temperature coating systems beyond the current state-of-the-art systems
[AD-A131618] 02 p0194 N84-11261
Approximation methods in multidimensional filter design and related problems encountered in multidimensional system design
[AD-A131316] 02 p0280 N84-11836
Analysis of finite difference discretizations of Navier-Stokes problems on mapped domains
02 p0283 N84-11858
Computation of three-dimensional unsteady flow in rigid and deformable curved tubes 03 p0375 N84-12440
OI 630.0 nm optical measurements of neutral winds, temperatures and airglow enhancements during the BIME program
[AD-A131695] 03 p0408 N84-12671
Limit theorems for the eigenvalues of product of two random matrices
[AD-A131682] 03 p0425 N84-12787
The design and implementation of debugging systems for languages with advanced control structures
04 p0578 N84-13811
A comparative study of the factors linking psychology and information science 04 p0616 N84-14063
A study of the empirical mass-luminosity diagram for early type stars 04 p0618 N84-14075
Surface studies of WO3/Al2O3 and Ni/W/Al2O3 catalysts
[DE84-000930] 05 p0651 N84-14283
Heat and mass transfer during the growth and dissociation of gas hydrates in porous media
[PB83-255414] 05 p0682 N84-14482
Electron spectroscopy study of SiC
[AD-A134352] 07 p1080 N84-17023
Lithological characterization of crystalline basement rock provinces of the interior of the United States
[NASA-CR-175180] 08 p1186 N84-17727
Problem solving abilities
[AD-A134717] 08 p1202 N84-17840
Studies of supported metal catalysts
[DE84-004210] 09 p1285 N84-18389
Investigation into the role of sodium chloride deposited on oxide and metal substrates in the initiation of hot corrosion
[NASA-CR-173377] 11 p1633 N84-20676
Spectroscopic studies of the products of the reactions of excited noble-gas atoms
[AD-A137750] 11 p1730 N84-21264
Integrity in database systems
11 p1747 N84-21400
Studies of coercive force of permanent magnet materials
[AD-A138123] 12 p1898 N84-22360
Laboratory studies of atomic collision processes
[AD-A137992] 12 p1901 N84-22362
Application of Magsat lithospheric modeling in South America. Part 1: Processing and interpretation of magnetic and gravity anomaly data
[E84-10115] 13 p2005 N84-23008
Project management: Evolution and influence
[AD-P002824] 13 p2061 N84-23369
Problem solving and reasoning
[AD-A138889] 14 p2186 N84-24099
Diagnostic algorithms for contour dynamics
[AD-P002947] 14 p2198 N84-24187
Simulation of heat transfer and fluid flow in the solidification of alloys 15 p2306 N84-24836
Flow between rotating disks. Part 1: Basic flow
15 p2315 N84-24890
Flow between rotating disks. Part 2: Stability
15 p2315 N84-24891
High Reynolds number solutions for incompressible viscous flow using the reduced basis technique
15 p2317 N84-24905
Application of MAGSAT to lithospheric modeling in South America. Part 2: Synthesis of geologic and seismic data for development of integrated crustal models
[E84-10126] 15 p2355 N84-25128

Correlation of tectonic provinces of South America and the Caribbean region with MAGSAT anomalies
15 p2355 N84-25130
Relation of MAGSAT anomalies to the main tectonic provinces of South America 15 p2356 N84-25137
Relation of MAGSAT and gravity anomalies to the main tectonic provinces of South America
15 p2357 N84-25138
The role of the Automated Plate Measuring (APM) machine in developing a program to discover QSOs automatically 18 p2843 N84-28054
Atomic collisions and plasma physics
[AD-A141320] 18 p2880 N84-28286
Multivariate analysis and its applications
[AD-A140942] 18 p2925 N84-28549
Interactions between erosion and corrosion of metals and alloys at elevated temperatures
[AD-A141410] 19 p2993 N84-28968
Error estimates for non-linear finite element computations
[AD-A141404] 19 p3084 N84-29571
Error estimations and adaptive techniques for nonlinearized parametrized equations
[AD-A142041] 19 p3088 N84-29607
Promotion effects on the synthesis of higher alcohols
[DE84-009916] 20 p3166 N84-30109
On the design of a Pipelined/Systolic finite element system
[AD-A142558] 20 p3281 N84-30830
A finite element implementation of the dual variable method for the Navier-Stokes equations
22 p3592 N84-32746
Computational fluid dynamics at the ICMA (Institute of Computational Mathematics and Applications)
[AD-A143510] 22 p3594 N84-32759
Horizontal cylindrical vessels supported by saddles subjected to vertical and lateral force fields
22 p3608 N84-32858
Chemical reactions, radiative and energy transfer processes of important atmospheric species
[AD-A143264] 22 p3653 N84-33156
Predictions of satisfaction with automated library circulation systems 22 p3670 N84-33259
Photoionization models of the MgII and CIV selected clouds observed in absorption in QSO spectra
22 p3678 N84-33314
Local climatological investigation of wind fields in the lower Monongahela Valley of Allegheny County, Pennsylvania 23 p3799 N84-34086
The determination of frequencies and mass characteristics of binary stars in open clusters
23 p3839 N84-34355
Solidification structures grown under induced flow and continuous casting of steel 24 p3883 N84-34599
Ground-based observations of equatorial thermosphere dynamics with a Fabry-Perot interferometer
[NASA-CR-174005] 24 p3933 N84-34897
SPIRIT: An evolutionally designed intelligent tutoring system
[AD-A144638] 24 p3949 N84-35003
Tests for sphericity under correlated multivariate regression equations model
[AD-A144658] 24 p3952 N84-35024

PLANETARY SCIENCE INST., TUCSON, ARIZ.
Analysis of regolith electromagnetic scattering as constrained by high resolution Earth-based measurements of the lunar microwave emission
[NASA-CR-174577] 05 p0764 N84-15012
Does saturation cratering exist in the solar system?
13 p2078 N84-23467

PLANNING RESEARCH CORP., MCLEAN, VA.
Integrating micro-computers with a centralized DBMS: ORACLE, SEED AND INGRES
11 p1748 N84-21409

PLESSEY CO. LTD., ROMSEY (ENGLAND).
Horizon and Prime Communication Programs HCP and PCP
[REPT-72/84/R006U] 19 p3003 N84-29033

PLESSEY RADAR LTD., CHESSINGTON (ENGLAND).
The estimation and correction of refractive bending in the AR3-D tactical radar systems
15 p2325 N84-24958

PLYMOUTH POLYTECHNIC (ENGLAND).
The mechanical properties of carbon fibre with glass fibre reinforced plastics 15 p2284 N84-24710
The mechanical properties of carbon fibre with glass fibre hybrid reinforced plastics 21 p3357 N84-31292

POITIERS UNIV. (FRANCE).
Analytical solutions for the flow field induced by a spherical flame expanding at constant velocity
06 p0836 N84-15445

POLHEMUS NAVIGATION SCIENCES, INC., ESSEX JUNCTION, VT.
The 3SPACE digitizer: A new input device for solid geometry modeling 12 p1872 N84-22200

POLISH ACADEMY OF SCIENCES, WARSAW.
Conference on Ultrasonics in Biology and Medicine, UBIOMED 6: Report summaries
[ISSN-0208-5658] 01 p0111 N84-10723
The shock wave structure in one-component gas and in binary gas mixture
[ISSN-0208-5658] 03 p0370 N84-12407
Hamiltonian for antisotropic bodies with defects
[ISSN-0208-5658] 03 p0451 N84-12966
Solvability of the leakage problem for the hydrodynamic Euler equations in Sobolev spaces
07 p1000 N84-16485
Stability of flow processes for dissipative solids with internal imperfections
[ISSN-0208-5658] 15 p2331 N84-24998
The exact surface impedance approach to problems of diffraction in open waveguides 16 p2478 N84-25888
Methods of analyzing processes of plastic working of metal, part 1 19 p2990 N84-28948
Methods of analyzing processes of plastic working of metal, part 3 19 p2990 N84-28949
Methods of analyzing processes of plastic working of metal, part 2 19 p2990 N84-28950
Methods of analyzing processes of plastic working of metal, part 4 19 p2991 N84-28951
Acoustic emission accompanying phase change in deformed 1H18N9T steel
[ISSN-0208-5658] 19 p2991 N84-28952
Green's function for a dielectric wave-guide filled with a dispersion medium
[ISSN-0208-5658] 19 p3003 N84-29032
Representation of TEM feidls in gyrotropic media by scalar Hertz potentials
[ISSN-0208-5658] 19 p3003 N84-29034
Flow of a simple viscoelastic fluid in a thin lubricating oil
[ISSN-0208-5658] 19 p3019 N84-29145
Limiting load capacity and weld measurements
[ISSN-0208-5658] 19 p3033 N84-29241
Use of the Doppler ultrasound method to evaluate the rate of blood flow in children with patent ductus arteriosus
[ISSN-0208-5658] 19 p3064 N84-29441
Experimental and clinical research on the effectiveness of ultrasound in vascular surgery
[ISSN-0208-5658] 19 p3064 N84-29442
Problems of constitutive modeling and stability of dissipative bodies
[ISSN-0208-5658] 19 p3081 N84-29551
Asymptotic solutions of dispersive quasi-linear equations
[ISSN-0208-5658] 19 p3081 N84-29552
Comparison of the Liapunov Method and the method of total disparities using the example of selected differential equations
[ISSN-0208-5658] 19 p3081 N84-29553
Present-day problems in identification of dynamic systems: A review
[ISSN-0208-5658] 19 p3082 N84-29555
Analysis of the influence of nonlinear and dissipative effects in atmospheric plasma
[ISSN-0208-5658] 19 p3106 N84-29732
Effect of the density of ionized particles on the plasma response in the plasmosphere
[ISSN-0208-5658] 19 p3106 N84-29733
General condition of the limiting state for isotropic materials
[ISSN-0208-5658] 23 p3712 N84-33530
Microscopic studies of accelerated destruction of plastic contact in kinematic pairs from different metals
[ISSN-0208-5658] 23 p3716 N84-33554
Review of the strength of brittle rock materials
23 p3722 N84-33586
Some aspects of the deformation and brittle destruction of elastooptic materials 23 p3722 N84-33587
Strength of gypsum in complex states of stress
23 p3722 N84-33588
Study of the process of destruction of fibroconcrete slabs under a static load simulating the action of a motor vehicle's wheel on a bridge
[ISSN-0208-5658] 23 p3726 N84-33612
Uniform asymptotic solution of the problem of diffraction for a linear quadrupole source
[ISSN-0208-5658] 23 p3729 N84-33631
Wiener-Hopf technique for the equation U(alpha) = K(alpha) L(alpha) + D(alpha) in the case of function K(alpha) with zeroes
[ISSN-0208-5658] 23 p3729 N84-33632
Analysis of the solution of the problem of diffraction on an asymmetric impedance half-plane
[ISSN-0208-5658] 23 p3729 N84-33633
Algorithmization and programming of operator activities for parametric synthesis of speech using the CT-1 system controlled by the MERA 303 minicomputer
[ISSN-0208-5658] 23 p3729 N84-33634
Segmentation of the speech signal based on changes in energy distribution in the spectrum
[ISSN-0208-5658] 23 p3729 N84-33635
Use of methods of transmission line electrical theories to analyze one-dimensional dynamic problems of consolidation theory
[ISSN-0208-5658] 23 p3734 N84-33662
Existence and equivalence of solutions of mixed problems for Euler's hydrodynamic equations
[ISSN-0208-5658] 23 p3745 N84-33738
Multicriterion optimization of construction
[ISSN-0208-5658] 23 p3759 N84-33822
The effect of thermomechanical coupling in the case of a thick-wall sphere and tube subjected to internal pressure
[ISSN-0208-5658] 23 p3759 N84-33823
Solutions of nonlinear equations of magneto-ionic theory
[ISSN-0208-5688] 23 p3794 N84-34059
Green's function for a plane waveguide formulated with electronic plasma
[ISSN-0208-5658] 23 p3826 N84-34265

POLITECNICO DI MILANO (ITALY).
The role of aeroelasticity in the preliminary design of helicopter rotors 02 p0172 N84-11130
Fast flutter clearance by parameter variation
02 p0172 N84-11135
Boundary layer segmentation on sharp highly swept leading edges and its effects on secondary vortices
03 p0326 N84-12132
CONSTRUCT: A tool for programming in the large
05 p0722 N84-14733
Fundamentals of elasticity theory
07 p1030 N84-16680
Variational methods in elasticity theory
07 p1030 N84-16681
Problems, examples and exercises
07 p1030 N84-16682
Implementation of a stand alone FORTRAN version of the TOPSIM simulation package
[ESA-CR(P)-1825] 12 p1884 N84-22284
Integrated use of radar and satellite data
18 p2888 N84-28334
Nonlinear burning stability of solid propellants
[AD-A143573] 22 p3562 N84-32554
Analysis of the metric camera black and white images over Italy 23 p3764 N84-33859

POLITECNICO DI TORINO (ITALY).
Adaptive control of thermal fluid loops for space applications 10 p1444 N84-19433
A discriminant analysis of radar data applied to severe storms 23 p3775 N84-33933

POLYATOMICS RESEARCH, INC., MOUNTAIN VIEW, CALIF.
Theoretical research program to predict the properties of molecules and clusters containing transition metal atoms
[NASA-CR-173924] 22 p3554 N84-32502

POLYTECHNIC INST. OF NEW YORK, BROOKLYN.
Bulk availability
[AD-A129863] 01 p0129 N84-10845
Research in network management techniques for tactical data communications networks
[AD-A131357] 02 p0209 N84-11365
Rays and modes on concave surfaces
[AD-A131411] 02 p0210 N84-11371
Research in net management techniques for tactical data networks
[AD-A131674] 03 p0361 N84-12352
Digital communications over satellite channels
05 p0664 N84-14365
Some robust techniques in radar signal processing
05 p0664 N84-14367
An analysis of noise and interference in a satellite based mobile communications system
05 p0665 N84-14369
Rotationally symmetric arrays of apertures on conducting spherical surfaces 05 p0673 N84-14419
Acoustic radiation from submerged structures at characteristic frequencies 05 p0742 N84-14872
Interaction of electromagnetic fields with plasma
[AD-A135173] 08 p1232 N84-18054
Fatigue-induced and time-dependent changes in thermomechanical properties of hybrid composite laminates
[PB84-126333] 09 p1277 N84-18336
Fatigue crack propagation in Ti-Mn alloys: The role of the Bauschinger effect
[AD-A136036] 09 p1283 N84-18383
Basic research in electronics (JSEP) Joint Services Electronics Program
[AD-A136290] 09 p1306 N84-18538

Transverse and quantum effects in light control by light; (A) parallel beams: Pump dynamics for three level superfluorescence; and (B) counterflow beams: An algorithm for transverse, full transient effects in optical bi-stability in a Febryperot cavity
[AD-A136906] 10 p1578 N84-20342
Lumped element and leaky-wave antennas for millimeter waves
[AD-A139512] 14 p2140 N84-23833
Deformation of bimetallic bicrystals of Alpha-Ti/Beta-Ti-13Mn
[AD-A140263] 16 p2469 N84-25822
Analysis of nonuniform dielectric waveguides for millimeter-wave applications
[AD-A141406] 19 p3013 N84-29098
Photoemission studies of mixed valent systems
[DE84-010797] 20 p3310 N84-31020

POLYTECHNIC INST. OF NEW YORK, FARMINGDALE.
Laser interaction with metallic surfaces
[AD-A126269] 03 p0378 N84-12464
An investigation of RF currents in a magnetized plasma using a slow wave structure
[AD-A135880] 09 p1385 N84-19047
Kinetics of complexation of the macrocycles 18C6 and 12C4 ethers with LiAsF-6 in 1,2-dimethoxyethane at 25 deg C
[AD-A143086] 21 p3359 N84-31304

POMONA COLL., CLAREMONT, CALIF.
Visual organization and information processing
[PB84-170778] 15 p2384 N84-25295

PONTIFICIA UNIV. CATOLICA DO ECUADOR QUITO (BRAZIL).
Quasitransitive algebras
[AD-P002343] 14 p2191 N84-24134

PORT ELIZABETH UNIV., CAPE PROVINCE (SOUTH AFRICA).
Surface photoluminescence and it application
06 p0815 N84-15304

PORTLAND CEMENT ASSOCIATION, SKOKIE, ILL.
Prestressed pavement accelerated testing program
[PB83-225763] 01 p0059 N84-10385
Evaluation of innovative concepts relating to prestressed concrete pavements, volume 5
[PB83-222349] 01 p0059 N84-10386

PORTLAND STATE UNIV., OREG.
Galactic explosions, cosmic dust invasions, and climatic change 11 p1757 N84-21489
Geochemical analyses, age dates, and flow-volume estimates for quaternary volcanic rocks, Southern Cascade Mountains, Washington
[DE84-007662] 15 p2368 N84-25211

PORTSMOUTH POLYTECHNIC (ENGLAND).
The conjoint action of high and low cycle fatigue
[AD-A139205] 14 p2158 N84-23927
A system to measure LOS atmospheric transmittance at 19 GHz 15 p2324 N84-24951

POTCHEFSTROOM UNIV. FOR CHRISTIAN HIGHER EDUCATION (SOUTH AFRICA).
Modulation of cosmic rays with particular reference to the Hermanus neutron monitor
09 p1344 N84-18780

POWER KINETICS, INC., TROY, N.Y.
Recent developments: PKI square dish for the Soleras Project 18 p2873 N84-28237

POZNAN TECHNICAL UNIV. (POLAND).
Transonic flow over an isolated profile and through a cascade of blade. Phenomenological analysis
05 p0626 N84-14118
An algebraic method for hazard analysis with the maximum number of spikes in combinational and sequential circuits
[AD-P002369] 14 p2194 N84-24160
A method of test generation for verification of wiring correctness
[AD-P002376] 14 p2195 N84-24167

PPG INDUSTRIES, INC., PITTSBURGH, PA.
New aircraft windshield applications using ion exchange glass
[AD-P003187] 17 p2590 N84-26600
T-38 student windshield birdproofing efforts utilizing metal and composite materials for aft arch reinforcement
[AD-P003189] 17 p2590 N84-26602
Development of lightweight commercial aircraft windshields with new high strength glasses
[AD-P003190] 17 p2590 N84-26603
Protective linear materials for transparent plastics
[AD-P003204] 17 p2592 N84-26617

PRAKLA-SEISMOS G.M.B.H., HANNOVER (WEST GERMANY).
System for recording, processing and interpreting vertical seismic profiles
[BMFT-FB-T-83-152] 02 p0250 N84-11638
Numerical modeling techniques according to the wave equation and the ray method
[BMFT-FB-T-83-136] 03 p0362 N84-12354
Combined sweeps for seismic reflection surveys using the VIBROSEIS system
[BMFT-FB-T-83-211] 10 p1537 N84-20073

PRATT AND WHITNEY AIRCRAFT, EAST HARTFORD, CONN.
Program for development of strain tolerant thermal barrier coating system
[NASA-CR-173214] 07 p0978 N84-16337
Stationary state computational fluid dynamics for aero-propulsion devices 21 p3354 N84-31278
Three-dimensional stress analysis using the boundary element method 21 p3421 N84-31700
Turbine blade and vane heat flux sensor development, phase 1
[NASA-CR-168297] 22 p3598 N84-32790

PRATT AND WHITNEY AIRCRAFT, WEST PALM BEACH, FLA.
X-ray wear metal monitor
[AD-A131251] 01 p0012 N84-10076
Dynamic gas temperature measurement system, volume 1
[NASA-CR-168267-VOL-1] 07 p1007 N84-16529
Error reduction program: A progress report
11 p1609 N84-20536
Fuel effects on gas turbine engine combustion
[AD-A138385] 12 p1803 N84-21753
V/STOL model fan stage rig design report
[NASA-CR-174688] 14 p2106 N84-23629
Fuel effects on gas turbine combustion systems
15 p2289 N84-24737
Instrumentation techniques in sea level test facilities
16 p2453 N84-25727
NASA Orbit Transfer Rocket Engine Technology Program
[NASA-CR-168156] 19 p2983 N84-28901

PRATT AND WHITNEY AIRCRAFT GROUP, EAST HARTFORD, CONN.
Development of strain tolerant thermal barrier coating systems, tasks 1 - 3
[NASA-CR-168251] 03 p0355 N84-12312
Parallel processor engine model program
[NASA-CR-174641] 10 p1431 N84-19353
Propulsion control technology
11 p1619 N84-20600
Impact of corporate resource allocation decisions on national security objectives: Dissynergism in aerospace industrial resource planning
[AD-P002801] 13 p2058 N84-23347
Status of understanding for seal materials
15 p2343 N84-25062
Energy efficient engine fan component detailed design report
[NASA-CR-165466] 18 p2795 N84-27737
Energy efficient engine: Low-pressure turbine subsonic cascade component development and integration program
[NASA-CR-165592] 18 p2795 N84-27738
Energy efficient engine high-pressure turbine detailed design report
[NASA-CR-165608] 19 p2965 N84-28788
Energy efficient engine: Turbine intermediate case and low-pressure turbine component test hardware detailed design report
[NASA-CR-167973] 19 p2965 N84-28789
Energy efficient engine component development and integration program
[NASA-CR-173884] 22 p3536 N84-32389

PRATT AND WHITNEY AIRCRAFT GROUP, WEST PALM BEACH, FLA.
Low strain, long life creep fatigue of AF2-1DA and INCO 718
[NASA-CR-167989] 01 p0042 N84-10268
Heat transfer and thermal stability of alternative aircraft fuels, volume 1
[AD-A137404] 10 p1469 N84-19597
Heat transfer and thermal stability of alternative aircraft fuels. Volume 2: Appendices
[AD-A137405] 10 p1469 N84-19598
Fuel property effects on USN gas turbine combustors
14 p2107 N84-23636
The NASA broad specification fuels combustion technology program at Pratt and Whitney
14 p2108 N84-23640
Application of rapidly solidified superalloys
[AD-A139350] 14 p2127 N84-23755
Statistics of crack growth in engine materials. Volume 2: Spectrum loading and advanced techniques
[AD-A140920] 17 p2680 N84-27072
Behavior of Ni-Cr-Si coating alloys in Na2SO4, V2O5 and mixed salt hot corrosion
[DE84-012386] 21 p3367 N84-31363
Weibull analysis handbook
[AD-A143100] 21 p3475 N84-32023
Manufacturing developments to reduce strategic materials usage 23 p3703 N84-33475
Coating developments to restrict strategic materials usage 23 p3704 N84-33483
Investigation of thermal coking rates of Air Force jet fuels
[AD-A144421] 24 p3890 N84-34831

PRATT AND WHITNEY AIRCRAFT OF CANADA LTD., MISSISSAUGA (ONTARIO).
Alternate fuels combustion research
[AD-A138575] 13 p1965 N84-22769
Fuel character effects on performance of small gas turbine combustion systems 15 p2290 N84-24738

PRC SYSTEMS SERVICES CO., MCLEAN, VA.
County-level wind resource estimates for DOE Region 5
[DE84-000009] 04 p0568 N84-13744

PRECISION DEVICES LTD., HUNTSVILLE, ALA.
Low gravity experiment for studying a rotating fluid having a free surface
[NASA-CR-170923] 03 p0371 N84-12413
Design and construction of equipment items for geophysical fluid flow models
[NASA-CR-171017] 15 p2335 N84-25018

PRESTON POLYTECHNIC (ENGLAND).
Observation of the interstellar ice grain feature in the Taurus molecular clouds
[DE84-004316] 10 p1595 N84-20453
Observations of the interstellar ice grain feature in the Taurus molecular clouds 16 p2570 N84-26493
Observations of the interstellar ice grain feature in the Taurus molecular clouds 18 p2948 N84-28691

PRETORIA UNIV. (SOUTH AFRICA).
Depth resolution due to instrumental factors in sputter-assisted depth profiling
06 p0816 N84-15315
Evaluation of the pitting corrosion resistance of a Fe-12% Cr alloy 06 p0817 N84-15321
The heterogeneous nucleation of ice I
06 p0817 N84-15325
Structural properties of epitaxial single layer metals on (110) B.C.C. metal substrates 06 p0817 N84-15326

PRICE WATERHOUSE AND CO., WASHINGTON, D. C.
Report on U.S. domestic and international telecommunications and information markets
[PB84-166362] 17 p2772 N84-27602

PRINCETON COMBUSTION RESEARCH LABS., INC., N.J.
Fluid-dynamically coupled solid propellant combustion instability - cold flow simulation
13 p1945 N84-22644
Asymptotic condensed phase analysis of deflagrating monopropellants with subsurface exothermicity
13 p1946 N84-22656
Analysis of combustion oscillations in heterogeneous systems
[AD-A144436] 24 p3880 N84-34583

PRINCETON RESOURCES, INC., N. J.
Evaluation of non-intrusive flow measurement techniques for a re-entry flight experiment
[NASA-CR-172142] 04 p0489 N84-13212

PRINCETON UNIV., N. J.
The detection of signals in impulsive noise
[AD-A130393] 01 p0062 N84-10409
Suboptimal threshold detection in narrowband non-Gaussian noise
[AD-A129629] 01 p0071 N84-10464
Effects of reflections and trapped ions on the thermionic emitter sheath
[DE83-010233] 01 p0150 N84-10988
Investigation of air transportation technology at Princeton University 02 p0169 N84-11108
Cockpit voice recognition program at Princeton University 02 p0169 N84-11109
Distributed processing and fiber optic communications in air data measurements 02 p0169 N84-11110
Data acquisition for stall/spin flight research
02 p0169 N84-11111
Wind tunnel wall interference
[AD-A131396] 02 p0175 N84-11149
The Tracked Wing In Ground-Effect (TWIG)
03 p0330 N84-12155
Interaction of a dislocation with a crack
[AD-A131912] 03 p0389 N84-12536
Mechanisms of monsoonal cyclogenesis
03 p0410 N84-12680
Adjustment in the oceans: The long-period tides and coastal upwelling 03 p0413 N84-12702
On differential equations of nonlocal elasticity and solutions of screw dislocation and surface waves
[AD-A131911] 03 p0425 N84-12786
Faint galaxies in the Coma cluster: Luminosity function and spatial distribution 03 p0464 N84-13053
Geomorphic studies of Mars 03 p0465 N84-13063
Evaluation of non-intrusive flow measurement techniques for a re-entry flight experiment
[NASA-CR-172142] 04 p0489 N84-13212

Ionization equilibrium in isolated H 2 regions
04 p0619 N84-14066
High temperature catalytically assisted combustion
[AD-A133864] 05 p0648 N84-14259
Studies of flame spread in an opposed flow over surfaces of solid fuels 05 p0652 N84-14286
A solution-adaptive finite-volume algorithm with application to problems in planetary entry
05 p0678 N84-14457
Impurity poloidal asymmetries and plasma rotation in the PDX Tokamak 05 p0748 N84-14914
Energetic ion beam-plasma interactions
[AD-A133816] 05 p0749 N84-14918
Large scale anisotropy of the 3K cosmic background radiation at 24.8, 31.4 and 46.0 GHZ
05 p0765 N84-15020
A study of helicopter rotor aerodynamics in ground-effect at low speeds 06 p0779 N84-15106
Formation and properties of polymers used in organic matrix composites
[AD-A134502] 07 p0979 N84-16344
Computing tides, nutations and tidally-induced variations in the Earth's rotation rate for a rotating, elliptical Earth
07 p1030 N84-16675
Aeroelastic analysis using nonlinear aerodynamic methods
[AD-A135133] 08 p1099 N84-17148
A photoacoustic study of chemically active systems
[AD-A134683] 08 p1125 N84-17311
VLSI, algorithms and graphics
08 p1208 N84-17878
Princeton VLSI project
[AD-A136551] 09 p1307 N84-18546
Princeton VLSI project
[AD-A136552] 09 p1307 N84-18547
Princeton VLSI project
[AD-A136553] 09 p1308 N84-18548
The role of surface generated radicals in catalytic combustion 11 p1613 N84-20555
Automatic generation of 3-D envelopes
12 p1872 N84-22197
Transonic flow calculations using triangular finite elements 13 p1925 N84-22529
Data acquisition and aerodynamic coefficient estimation at high angles of attack 13 p1927 N84-22542
Nearly optimal detection of signals in non-Gaussian noise
[AD-A138657] 13 p1983 N84-22872
Effects of transverse loading on the thickness shear resonance frequencies in crystal plates
13 p2003 N84-22994
Computer methods for industrial automation and robotics 13 p2031 N84-23168
Multi-sensor array time-delay estimation with small phase incoherences
[AD-A138867] 13 p2033 N84-23183
The luminosity function of galaxies in CO-12
13 p2071 N84-23424
Dynamical relaxation in stellar systems
13 p2072 N84-23426
Magnetic properties of Martian surface material
[NASA-CR-173491] 15 p2425 N84-25566
Panel method for perturbations of transonic flows with finite shocks 16 p2442 N84-25669
Barotropic studies of stationary extratropical anomalies in the troposphere 16 p2527 N84-26224
On the structure and forcing of tropospheric stationary waves 16 p2527 N84-26225
On the structure of the narrow cold-frontal rainband
16 p2532 N84-26254
Energetic ion beam-plasma interactions
[AD-A140173] 16 p2558 N84-26412
Research in extragalactic astrophysics
[NASA-CR-173606] 16 p2577 N84-26536
V-V compact group of galaxies
[NASA-CR-173609] 16 p2577 N84-26537
The origin of magnemite on Mars
[NASA-CR-173492] 16 p2579 N84-26543
Radiative forcing of the Venus mesosphere
16 p2580 N84-26549
Princeton VLSI project
[AD-A140588] 17 p2663 N84-26986
Nonlinear growth of perturbations in an Einstein-De Sitter cosmology 17 p2776 N84-27624
Parameterization of the ABL and OBL in a GFDL model, appendix M 18 p2885 N84-28308
The problem of climate and climate variations
[WCP-72] 18 p2886 N84-28312
Microwave and theoretical studies for Cosmic Background Explorer satellite
[NASA-CR-175248] 18 p2954 N84-28721
Research into self-timed VLSI circuits
[AD-A141871] 19 p3014 N84-29103
On continuous distributions of dislocations in nonlocal elasticity
[AD-A141858] 19 p3036 N84-29257
Inversion of spectral lineshapes to yield collisional rate constants
[AD-A142661] 20 p3149 N84-29994
Nonlocal continuum theory for dislocation and fracture
[AD-A142538] 20 p3202 N84-30340
Chemical poisoning in model heterogeneous reactions
[DE84-012461] 21 p3360 N84-31315
Princeton VLSI project
[AD-A142959] 21 p3391 N84-31521
Temperature derivatives of elastic stiffnesses and frequency-temperature behavior of quartz crystal plates
21 p3418 N84-31675
Bi- and poly-optimal confidence limits for a location and parameter
[AD-A142980] 21 p3473 N84-32012
Strong confidence intervals: A compromise between the Gaussian and the slash
[AD-A142981] 21 p3475 N84-32021
The use of double sampling in studying robustness
[AD-A142982] 21 p3475 N84-32022
Variance-stable R-estimators
[AD-A143172] 21 p3475 N84-32024
The shape of the Sun 21 p3526 N84-32334
Investigation of the external flow analysis for density measurements at high altitude
[NASA-CR-173881] 22 p3530 N84-32352
The transformation of liquid to amorphous solid: The time to vitrify for styrene polymerization
[AD-A143228] 22 p3547 N84-32452
Robust C(Alpha)-type tests for linear models
[AD-A143177] 22 p3648 N84-33125
Bounded-influence inference in regression
[AD-A143195] 22 p3648 N84-33126
Robust model selection in regression
[AD-A143209] 22 p3648 N84-33127
In-flight investigation of longitudinal flying qualities criteria
[AD-A143614] 23 p3695 N84-33419
Combustion chemistry of vibrationally excited oxygen
[AD-A143791] 23 p3714 N84-33540
Artificial intelligence theory and reconfigurable control systems
[AD-A143766] 23 p3817 N84-34203
Robust confidence intervals for a scale parameter: A compromise between the Gaussian and the slash
[AD-A143666] 23 p3820 N84-34223

PRINS MAURITS LAB. TNO, RIJSWIJK (NETHERLANDS).
Results and interpretation of labor-hygienic studies in the paintshop of the jet engine depot of the Woensdrecht airbase
[PML-1982-54] 02 p0269 N84-11759
Estimate of blast wave properties
06 p0836 N84-15443
Vapor cloud explosion experiments
06 p0836 N84-15444
Interaction of gas explosions with buildings
06 p0836 N84-15447
Radiative heat transfer, Favre-averaging and turbulence closure models for combustion applications
[VTH-LR-383] 10 p1496 N84-19780
Simulation of the ignition of a mixture of hydrogen and oxygen
[PML-1983-34] 12 p1790 N84-21676
Thermal stability of diethylene glycol dinitrate (DEGN) propellant
[PML-1983-22] 12 p1803 N84-21752
Investigation of the usefulness of the smoke generator Draeger model MK V for fire services exercises onboard ships
[PML-1983-6] 12 p1804 N84-21759
Investigation of detonation chains. Part 13: Continuous measurement of the detonation velocity of pressed TNT using an ultrahigh speed camera
[PML-1982-3] 12 p1814 N84-21825
Regression analysis of fragment perforation data
[PML-1982-4] 12 p1821 N84-21873
Description of optical measurement techniques for the interaction of shock waves with objects
[PML-1983-10] 12 p1904 N84-22401
Flow pattern in an indoor rocket test stand during static firing of solid propellant rocket motors
[PML-1983-40] 17 p2614 N84-26731
The penetration model of Dehn
[PML-1984-5] 20 p3199 N84-30316

PRITCHARD (C. LEWIS), CROSSVILLE, TENN.
Gasogen for automobile use
[DE84-000712] 06 p0813 N84-15291

PRITSKER AND ASSOCIATES, INC., ALBUQUERQUE, N. MEX.
A computer simulation to predict target identification latencies
[AD-P003272] 18 p2907 N84-28437

PRO-CRIT (PTY) LTD., RANDBURG (SOUTH AFRICA).
Construction planning and control: Current practice and continuing challenges 05 p0718 N84-14706

PROFESSIONAL STAFF ASSOCIATION OF THE RANCHO LOS AMIGOS HOSPITAL, INC., DOWNEY, CALIF.
Short-term human respiratory effects of nitrogen dioxide: Determination of quantitative dose-response profiles. Phase 1: Exposure of healthy volunteers to 4 PPM NO/sub 2
[PB84-132299] 10 p1548 N84-20148

PROJECTS EXPEDITED (PROPRIETARY) LTD. (SOUTH AFRICA).
Friction welding 09 p1292 N84-18436

PROPRIETARY SOFTWARE, INC., LOS ANGELES, CALIF.
Management overview of the benefits of efficient JOVIAL J73/1750A software tools
[AD-P003519] 21 p3329 N84-31123

PROPRIETARY SOFTWARE SYSTEMS, INC., BEVERLY HILLS, CALIF.
Planning of operational software implementation tool
[AD-P003595] 21 p3341 N84-31200

PROTOTYP WERKE, ZELL (WEST GERMANY).
Economic roughing and finish milling with end mills made of high speed tool steel class HSSE: High cobalt alloyed 09 p1292 N84-18442

PUBLIC SERVICE ELECTRIC AND GAS CO., NEWARK, N. J.
Battery Energy Storage Test (BEST) facility
[DE84-012127] 20 p3237 N84-30548

PUBLIC SERVICE SATELLITE CONSORTIUM, WASHINGTON, D.C.
Satellite communications for the Pacific islands. Second year report
[NASA-CR-173171] 07 p0986 N84-16388
Pacific Basin Communications Study, volume 1
[NASA-CR-173173] 12 p1805 N84-21767
Pacific Basin Communication Study, volume 2
[NASA-CR-173174] 12 p1805 N84-21768

PUERTO RICO UNIV., MAYAGUEZ.
Microcomputers: A tool for planning and scheduling construction projects
[PB83-211201] 01 p0160 N84-11053
Generation of mesoscale hydrodynamic phenomena by the Grappler and Whiting Seamounts, southeast of Puerto Rico
[PB84-148196] 12 p1863 N84-22140
Two phase system; Interfacial turbulence
[AD-A143182] 22 p3593 N84-32754

PUERTO RICO UNIV., RIO PIEDRAS.
An exactly solvable model for ideally polarizable interfaces
[AD-A138719] 13 p2033 N84-23162
The ideally polarizable interface: A solvable model and general sum rules
[AD-A138720] 13 p2036 N84-23207

PUERTO RICO UNIV., SAN JUAN.
Development of alternative energy science and engineering in the Caribbean
[PB84-145648] 12 p1845 N84-22026
Development of alternative energy science and engineering in the Caribbean
[PB84-181106] 20 p3237 N84-30552

PUGH (PAUL F.) AND ASSOCIATED PROFESSIONAL ENGINEERS, OAKLAND, CALIF.
Energy conservative cable system demonstration project
[DE84-008982] 20 p3179 N84-30195

PULSE SCIENCES, INC., SAN LEANDRO, CALIF.
Low-inductance, dual-feed diode development
[DE84-000117] 04 p0527 N84-13465
Pulsed power for racetrack induction accelerators
[AD-A143289] 22 p3653 N84-33157

PURDUE UNIV., LAFAYETTE, IND.
Semielliptical cracks along holes in plates and lugs
[AD-A130786] 01 p0096 N84-10622
Pringle: A parallel processor to emulate CHiP (configurable highly parallel) computers
[AD-A129152] 01 p0119 N84-10770
Evaluation of Fourier descriptors for target recognition in digital imagery
[AD-A130182] 01 p0129 N84-10844
On two-stage bayes selection procedures
[AD-A130301] 01 p0136 N84-10890
Optimal sampling in selection problems
[AD-A130248] 01 p0136 N84-10891
Light aircraft sound transmission study
[NASA-CR-174540] 01 p0139 N84-10910
Thermophysical property determination using transient techniques
[AD-A130707] 01 p0156 N84-11027
On the distribution of the studentized maximum of equally correlated normal random variables
[AD-A131529] 02 p0282 N84-11848
Selection procedures for optimal subsets of regression variables
[AD-A131567] 02 p0285 N84-11869

Transmission of sound through a cylindrical shell and a light aircraft fuselage 02 p0287 N84-11881
Combustion modeling of composite solid propellants 03 p0351 N84-12285
Laser velocimeter measurements and analysis in turbulent flows with combustion, part 2
[AD-A131882] 03 p0372 N84-12421
Buckled plate vibrations, large amplitude vibrations and nonlinear flutter of elastic plates using high-order triangular finite elements 03 p0387 N84-12523
Evaluation of the crack gage as an advanced individual aircraft tracking concept 03 p0391 N84-12551
Simulation aspects in the study of rectification of satellite scanner data 03 p0394 N84-12571
Numerical simulation of convective scaling 03 p0406 N84-12660
Mechanisms of elevated-temperature rupture in single-phase ceramics
[DE83-017779] 04 p0508 N84-13327
A rotary vane open reversed Brayton cycle air conditioning and refrigeration system 04 p0543 N84-13574
LANDSAT 4 image data quality analysis
[E84-10036] 04 p0551 N84-13629
On the singularities of certain nonlinear partial differential equations 04 p0575 N84-13787
Photo-induced field emissions from metallic surfaces
[DE84-000872] 04 p0601 N84-13966
Research on aero-thermodynamic distortion induced structural dynamic response of multi-stage compressor blading
[AD-A133853] 05 p0632 N84-14151
Grain structure identification by ultrasound frequency averaging and deconvolution
[AD-A134054] 05 p0653 N84-14294
Specific heat of British, Czechoslovakian, French, German, Japanese, Polish, Romanian and Swedish stainless steels, state-of-the-art report
[AD-A132991] 05 p0655 N84-14306
Initiation, growth, and coalescence of small fatigue cracks
[AD-A133935] 05 p0692 N84-14545
Shape recognition and description: A comparative study
[AD-A132842] 05 p0737 N84-14843
Application of interactive computer graphics in finite element analysis 06 p0856 N84-15575
Seismic properties of the crust and uppermost mantle of North America
[NASA-CR-175134] 06 p0877 N84-15708
On Bayes and empirical bayes rules for selecting good populations
[AD-A133396] 06 p0904 N84-15869
An estimation problem relating to subset selection for normal populations
[AD-A133387] 06 p0904 N84-15870
The 2-stage selection procedures based on tests
[AD-A133405] 06 p0904 N84-15871
A numerical investigation of the multiple vortex phenomenon: Vortex number and structure as a function of swirl ratio 06 p0931 N84-16049
A new treatment of incomplete information and retrieval in relational data bases 06 p0934 N84-16069
Fuel effects on gas turbine combustion
[AD-A134503] 07 p0954 N84-16187
Specific heat of octahydro-1,3,5,7tetranitro-1,3,5,7-tetrazocine (HMX)
[AD-A134564] 07 p0966 N84-16260
Analytical and experimental investigation of soil reinforcing
[AD-A134343] 07 p0985 N84-16383
Parameterization of cloud effects on the absorption of solar radiation
[NASA-CR-175154] 07 p1035 N84-16712
An approach to rotation invariant texture classification and some experimental results
[AD-A134197] 07 p1061 N84-16881
Light aircraft sound transmission study
[NASA-CR-173175] 07 p1069 N84-16941
Dynamics and control of forward swept wing aircraft
[NASA-CR-175369] 08 p1103 N84-17172
Precipitation mechanisms in aluminum-lithium alloys
[AD-A134836] 08 p1133 N84-17367
Three-dimensional measurements of fatigue crack closure
[NASA-CR-175366] 08 p1169 N84-17616
In vitro chlorophyll photosynthetic reaction
[PB84-104892] 08 p1198 N84-17810
Objective measure of pilot workload
[NASA-CR-173296] 08 p1205 N84-17858
On using selection procedures with binomial models
[AD-A135275] 08 p1219 N84-17957
Nonparametric selection procedures for a two-way layout problem
[AD-A135385] 08 p1220 N84-17962
Isotonic procedures for selecting populations better than a standard: Two-parameter exponential distributions
[AD-A135445] 08 p1223 N84-17985
The integrated manual and automatic control of complex flight systems
[NASA-CR-173308] 09 p1257 N84-18207
Monolithic ZnO SAW (Surface Acoustic Waves) structures
[AD-A135987] 09 p1309 N84-18557
Detection of bright spots in seismic signal using pattern recognition techniques
[AD-A136210] 09 p1346 N84-18793
Mechanical regulation of plant growth and development 09 p1355 N84-18858
A versatile parallel image processor system
[AD-A136292] 09 p1365 N84-18910
VLSI architectures for recognition of context-free languages 09 p1402 N84-19160
VLSI architectures for pattern analysis and image database management 09 p1403 N84-19163
Evaluation of the crack growth gage concept as an individual aircraft tracking device, volume 2
[AD-A136933] 10 p1428 N84-19341
Proposal for a free electron laser in the X-ray region
[DE84-004735] 10 p1501 N84-19808
Vehicle-structure interactions in bridge dynamics 10 p1506 N84-19853
Performance feedback effects under varying conditions of goals, feedback type, and choice
[AD-A136703] 10 p1550 N84-20157
Vibrational relaxation of diatomic molecules in solids at low temperatures 10 p1559 N84-20217
The vectorization of a ray tracing program for image generation 10 p1561 N84-20231
Large enhancement of the Sagnac effect based on nonlinearly induced nonreciprocity
[AD-A137080] 10 p1579 N84-20344
Cooperative pilot-optimal augmentation system synthesis for complex flight vehicles 11 p1605 N84-20511
Turbulence characteristics of an axisymmetric reacting flow 11 p1611 N84-20548
Saturated laser fluorescence in turbulent sooting flames at high pressure 11 p1612 N84-20551
Spontaneous ignition characteristics of gaseous hydrocarbon-air mixtures 11 p1613 N84-20557
Pilot modeling, modal analysis, and control of large flexible aircraft 11 p1617 N84-20584
Analysis of large space structures 11 p1623 N84-20621
Transport properties of selected metal oxides 11 p1740 N84-21356
Synthesis of Co2+ and Ni2+ stabilized beta alumina 11 p1744 N84-21378
An optimal control approach to pilot/vehicle analysis and Neal-Smith criteria
[NASA-CR-170416] 12 p1771 N84-21551
Remote sensing of agricultural crops and soils
[E84-10107] 12 p1829 N84-21925
Measurement and modeling of the optical scattering properties of crop canopies 12 p1831 N84-21934
Measurement and modeling of the optical scattering properties of crop canopies 12 p1833 N84-21948
Effects of particle size distribution in thick film conductors 12 p1839 N84-21991
Metallization with generic metallo-organic inks 12 p1840 N84-21996
The virtual front end: Towards better management of solid geometric data 12 p1874 N84-22213
Highly parallel processing of relational databases
[AD-A137961] 12 p1877 N84-22231
Variable structure control of interconnected systems with applications to power systems
[DE84-006587] 12 p1892 N84-22321
An optical surface tracking device which determines a solid propellant's burning rate 13 p1944 N84-22638
Insitu measurement of burning rate 13 p1944 N84-22639
On the oscillatory flowfield in solid rocket motors 13 p1945 N84-22645
Effect of non-constant solid phase thermal properties on temperature sensitivity of solid propellant 13 p1946 N84-22654
Investigation of combustion characteristics of a high chamber pressure rocket motor 13 p1952 N84-22693
Intramolecular electron transfer at metal surfaces. 1. Relative energetics of some corresponding outer- and inner-sphere pathways involving halide and pseudohalide bridging ligands
[AD-A139021] 13 p1956 N84-22716
Electron-transfer kinetics of redox centers anchored to metal surfaces: Weak- versus strong-overlap reaction pathways
[AD-A139043] 13 p1956 N84-22718
Observation of surface-enhanced Raman scattering for transition-metal hexaammine cations at the outer Helmholtz plane: Implications for enhancement mechanisms at electrochemical interfaces
[AD-A139045] 13 p1956 N84-22719
Intramolecular electron transfer at metal surfaces. 2: Comparisons of ligand-bridged CR(3) reduction kinetics at silver versus mercury electrodes
[AD-A139047] 13 p1956 N84-22720
Surface-enhanced Raman spectroscopy of electrochemically characterized interfaces. Relations between Raman scattering intensity and surface coverage for simple anionic adsorbates
[AD-A139054] 13 p1957 N84-22721
Utility of surface reaction entropies for examining reactant-solvent interactions at electrochemical interfaces. Ferricinium-ferrocene attached to platinum electrodes
[AD-A139055] 13 p1957 N84-22722
Redox thermodynamics of surface-bound reactants. Illustrative behavior of Cobalt(3)/(2) macrobicyclic cage complexes
[AD-A139058] 13 p1957 N84-22723
A method for evaluating the surface concentrations of 2 like-charged ions simultaneously adsorbed at an electrode-solution interface
[AD-A139074] 13 p1957 N84-22724
The influence of specific reactant-solvent interactions on intrinsic activation entropies for outer-sphere electron transfer reactions
[AD-A139081] 13 p1957 N84-22725
Application of Magsat lithospheric modeling in South America. Part 1: Processing and interpretation of magnetic and gravity anomaly data
[E84-10115] 13 p2005 N84-23008
New techniques for measuring single event related brain potentials
[AD-A138694] 13 p2021 N84-23107
Personnel technology: Performance appraisal, a process approach
[AD-A138359] 13 p2022 N84-23112
Intramolecular electron transfer at metal surfaces. 3: Influence of bond conjugation on reduction kinetics of Cobalt (3) anchored to metal surfaces via thiophenecarboxylate ligands
[AD-A139066] 13 p2041 N84-23242
An experimental estimate of the electron-tunneling distance for some outer-sphere electrochemical reactions
[AD-A139049] 13 p2047 N84-23284
Flame propagation in heterogeneous mixtures of fuel drops and air
[NASA-CR-174644] 14 p2131 N84-23775
Characterization and estimation of 2-dimensional ARIMA (Autoregressive Moving Average) models
[AD-A139120] 14 p2211 N84-24279
Cyclotron bistability of electrons in vacuum and semiconductors 14 p2236 N84-24418
Light-induced nonreciprocity: Directional optical bistability; spectroscopy of induced anisotropy; nonlinear Sagnac effect 14 p2241 N84-24452
Optimal cooperative control synthesis applied to a control-configured aircraft
[NASA-CR-170411] 15 p2264 N84-24593
CO + H/sub 2 reaction over nitrogen-modified iron catalysts
[DE84-009048] 15 p2288 N84-24727
Effect of initial stresses on the impact behavior of graphite-epoxy laminates 15 p2310 N84-24859
Application of MAGSAT to lithospheric modeling in South America. Part 2: Synthesis of geologic and seismic data for development of integrated crustal models
[E84-10126] 15 p2355 N84-25128
Euro-African MAGSAT anomaly-tectonic observations 15 p2355 N84-25129
Reduced to pole long-wavelength magnetic anomalies of Africa and Europe 15 p2355 N84-25132
Satellite magnetic anomalies of Africa and Europe 15 p2356 N84-25133
LANDSAT-4 image data quality analysis
[E84-10134] 16 p2506 N84-26082
On the optimality of some subset selection procedures
[AD-A140180] 16 p2549 N84-26362
Bayes-p* subset selection procedures for the best population
[AD-A140179] 16 p2551 N84-26367
Subset selection procedures: A review and an assessment
[AD-A140266] 16 p2551 N84-26368
Transonic aeroelastic stability and response of conventional and supercritical airfoils including active controls 17 p2598 N84-26855
Development of a 2-dimensional turbulent jet under natural and excited conditions 17 p2666 N84-26997
Large eddy interactions in curved wall boundary layers: Model and implications 17 p2666 N84-26998

A new 48 D.O.F. quadrilateral shell element with variable-order polynomial and rational B-spline geometries with rigid body modes 17 p2678 N84-27058
LANDSAT-4 image data quality analysis
[E84-10158] 17 p2709 N84-27250
Meteorological models for estimating phenology of corn
[E84-10160] 17 p2709 N84-27252
Aggregating available soil water holding capacity data for crop yield models
[E84-10161] 17 p2710 N84-27253
Costs of measuring leaf area index of corn
[E84-10162] 17 p2710 N84-27254
The Pringle parallel computer
[AD-A140852] 17 p2750 N84-27452
Introduction to the Poker Parallel Programming Environment
[AD-A140851] 17 p2753 N84-27476
A generalization of autocorrelation and partial autocorrelation functions useful for identification of ARIMA(p,q) processes
[AD-A140860] 17 p2759 N84-27516
Anomalies in, and crystallization of supercooled water and aqueous solutions
[AD-A140582] 17 p2767 N84-27573
Results of the Purdue University GAS-1 payload 18 p2799 N84-27760
Nuclear particle detection using a track-recording solid 18 p2800 N84-27769
Three-dimensional measurements of fatigue crack closure
[NASA-CR-173679] 18 p2852 N84-28110
Computer-automated technological innovation in three manufacturing sectors
[AD-P003309] 18 p2909 N84-28450
Noise path identification using face-to-face and side-by-side microphone arrangements
[NASA-CR-173708] 18 p2928 N84-28569
Injection of drag reducing additives into turbulent water flows: Results from factorial design
[AD-A141675] 19 p3024 N84-29177
The effect of thickness on fatigue crack propagation in 7475-T731 aluminum alloy sheet
[NASA-CR-172367] 19 p3035 N84-29251
Two-dimensional computer simulation of EMVJ and grating solar cells under AMO illumination 19 p3044 N84-29313
A distributed memory management system for PASM
[AD-A141360] 19 p3072 N84-29487
Purdue plane structures analyzer 2: A computerized wood engineering system, 1983 version
[AD-A142042] 19 p3078 N84-29533
PURDU-WINCOF: A computer code for establishing the performance of a fan-compressor unit with water ingestion
[NASA-CR-168005] 20 p3130 N84-29875
Solvent, ligand, and ionic charge effects on reaction entropies for simple transition-metal redox couples
[AD-A142374] 20 p3147 N84-29984
The prediction of electrochemical reactivities from contemporary theory: Some comparisons with experiment
[AD-A142406] 20 p3147 N84-29985
Surface-enhanced Raman spectroscopy of electrochemically characterized interfaces. Transition-metal isothiocyanate adsorbates at silver adsorbates
[AD-A142407] 20 p3148 N84-29986
Surface-Enhanced Raman Scattering for redox-active adsorbates: Pentaammineosmium (3)/(2) and Pentaammineruthenium (2) containing nitrogen heterocycle ligands
[AD-A142418] 20 p3148 N84-29987
The reliability of standard rate constants for rapid electrochemical reactions
[AD-A142445] 20 p3148 N84-29989
Electrochemical activation parameters for surface-attached reactants evaluation of unimolecular frequency factors for representative ligand-bridged reactions
[AD-A142483] 20 p3148 N84-29990
LANDSAT-4 MSS and TM spectral class comparison and coherent noise analysis 20 p3208 N84-30381
Spatial resolution estimation of LANDSAT-4 TM data 20 p3210 N84-30394
Interactive aircraft flight control and aeroelastic stabilization
[NASA-CR-173866] 21 p3344 N84-31214
Measurement of the absorption coefficient using the sound-intensity technique
[NASA-CR-173848] 21 p3490 N84-32115
Study of double wall panels for use in propeller driven aircraft
[NASA-CR-173847] 21 p3490 N84-32116
Prediction of light aircraft interior sound pressure level using the room equation
[NASA-CR-173840] 21 p3490 N84-32117
Linearized dynamical model for the NASA/IEEE SCOLE configuration
[NASA-CR-172394] 22 p3542 N84-32423
Multicomponent diffusion under general chemical potential gradients
[DE84-010830] 22 p3548 N84-32458
LANDSAT-4 image data quality analysis
[E84-10173] 22 p3613 N84-32893
The Blue ChiP Project
[AD-A143474] 22 p3638 N84-33065
The prediction of acoustical particle motion using an efficient polynomial curve fit procedure
[NASA-CR-173915] 22 p3651 N84-33145
A study of methods to predict and measure the transmission of sound through the walls of light aircraft. A survey of techniques for visualization of noise fields
[NASA-CR-173917] 22 p3652 N84-33146
LANDSAT-4 MSS and Thematic Mapper data quality and information content analysis 23 p3766 N84-33871
MOD silver metallization for photovoltaics
[NASA-CR-173975] 24 p3884 N84-34610
Utilization of satellite cloud information to diagnose the energy state and transformations in extratropical cyclones 24 p3925 N84-34846
Dynamics and energetics of the South Pacific convergence zone during FGGE SOP-1 24 p3926 N84-34850

PURKYNE UNIV., BRNO (CZECHOSLOVAKIA).

Problems in the spectroscopy of cool carbon stars 15 p2422 N84-25549
Spectral analysis of Beta Pegasi 15 p2422 N84-25551
Computer programs for processing of spectra 15 p2423 N84-25556

Q

QUANTA-RAY, INC., MOUNTAIN VIEW, CALIF.

Laser chromatography (gaseous electrophoresis) of chemical agents
[AD-A130948] 01 p0087 N84-10565

QUANTUM DESIGN, INC., SAN DIEGO, CALIF.

A conceptual design study for the secondary mirror drive of the shuttle infrared telescope facility (SIRTF)
[NASA-CR-166562] 10 p1501 N84-19813

QUEBEC UNIV., TROIS-RIVERES.

Roots of N-valued switching functions
[AD-P002350] 14 p2192 N84-24141

QUEEN MARY COLL., LONDON (ENGLAND).

Introductory remarks and review of 1979 symposium 01 p0013 N84-10083
Dynamic effects of controls 01 p0013 N84-10086
Alfven solitons in the solar wind 03 p0467 N84-13075
Development of high modulus polydiacetylene fibres for use in fibre-reinforced composites
[AD-A140912] 17 p2627 N84-26809
An analysis of the helium-weak stars HD 144334 24 p3976 N84-35182

QUEENS COLL., FLUSHING, N. Y.

Computerized audio processor
[AD-A130390] 01 p0063 N84-10411

QUEENS UNIV., BELFAST (NORTHERN IRELAND).

Eigenvalue methods for vibration analysis 2 10 p1507 N84-19865
Charge exchange and related processes 11 p1736 N84-21327
Further studies of nearby high velocity interstellar gas 24 p3973 N84-35157

QUEENSBOROUGH COMMUNITY COLLEGE, BAYSIDE, N. Y.

Sensory redundancy management: The development of a design methodology for determining threshold values through a statistical analysis of sensor output data
[NASA-CR-173270] 07 p1059 N84-16859

QUEENSLAND UNIV., ST. LUCIA (AUSTRALIA).

Deployment of a secondary concentrator to increase the intercept factor of a dish with large slope errors 18 p2875 N84-28252

R

R AND D ASSOCIATES, MARINA DEL REY, CALIF.

An estimate of HF/VHF surface-wave communication link reaches in the West German forest environment
[AD-A131262] 01 p0067 N84-10441
Developing new materials at elevated temperatures and pressures
[AD-A141235] 18 p2940 N84-28650

RACAL-DECCA LTD., CHESSINGTON (ENGLAND).

10 cm radar ground clutter measurements taken from a coastal steamer radar on passage from Bergen to North Cape in May 1982 06 p0871 N84-15667

RADIAN CORP., DURHAM, N.C.

Locating and estimating air emissions from sources of acrylonitrile
[PB84-200609] 22 p3619 N84-32934

RADIATION MONITORING DEVICES, INC., WATERTOWN, MASS.

Replicated CdTe substrates
[AD-A133114] 06 p0922 N84-15994
Low cost, sprayed CuInSe2 solar cell research
[DE84-005339] 10 p1530 N84-20023
Low cost, sprayed CuInSe2 solar cell research
[DE84-010480] 20 p3235 N84-30533

RADIO RESEARCH LABS., TOKYO (JAPAN).

Remote sensing of rain by an airborne dual-frequency microwave scatterometer/radiometer 23 p3774 N84-33927
Differential emission measurement for atmospheric absorption by a ground-based microwave radiometer 23 p3774 N84-33928

RADIO TECHNICAL COMMISSION FOR AERONAUTICS, WASHINGTON, D. C.

Minimum operational performance standards for airborne radio communications equipment operating within the radio frequency range 117.975 - 137.000 MGz
[RTCA/DO-186] 11 p1642 N84-20734
Minimum operational performance standards for traffic alert and collision avoidance system (TCAS) airborne equipment, volume 1
[RTCA/DO-185-VOL-1] 16 p2445 N84-25685
Minimum operational performance standards for traffic alert and collision avoidance system (TCAS) airborne equipment, volume 2
[RTCA/DO-185-VOL-2] 16 p2445 N84-25686

RAND CORP., SANTA MONICA, CALIF.

The flexural behavior of PACSAT (passive communication satellite) in orbit
[AD-A131406] 02 p0184 N84-11195
Bounding the costs of hedging against Space Shuttle contingencies: A policy analytic approach
[N1829-AF] 02 p0184 N84-11196
Perspectives on oversight management of software development projects
[AD-A133404] 06 p0933 N84-16064
Strategies of cooperation in distributed problem solving
[AD-A136527] 09 p1371 N84-18955
A practical guide to MAXLIK
[RAND/N-1914-RC-REV] 11 p1706 N84-21118
The subjective function approach for analyzing systems
[RAND/P-6893] 11 p1718 N84-21206
Information systems, security and privacy
[RAND/P-6930] 11 p1747 N84-21402
Successful use of microcomputers in classroom instruction
[RAND/P-6653] 12 p1876 N84-22229
Self-teaching guide to Rand's text processor
[RAND/N-2056-RC-REV] 12 p1879 N84-22244
A development of logistics management models for the Space Transportation System
[NASA-CR-173504] 14 p2113 N84-23664
Designing readable and reusable tables
[RAND/P-6945] 14 p2247 N84-24496
CLARIFY: An on-line guide for revising technical prose
[N-2037-RC] 15 p2417 N84-25509
Techniques for the analysis of spectral and orbital congestion in space systems
[AD-A140841] 17 p2614 N84-26734
Interference problems for nongeostationary satellites
[NASA-CR-173717] 18 p2802 N84-27780
Distributed problem solving for air fleet control: Framework and implementations
[AD-A143168] 21 p3327 N84-31108
Using statistical tools
[RAND/N-2121-PSSP] 22 p3647 N84-33124
Rand's experience in applying artificial intelligence techniques to strategic-level military-political war gaming
[P-6977] 22 p3649 N84-33137
Interactive information environments: A plan for enabling interdisciplinary research
[RAND/N-2115] 22 p3673 N84-33284
Scientific and technical information transfer: Issues and options
[RAND/N-2131-NSF] 22 p3673 N84-33286
Overview: Techniques for the analysis of spectral and orbital congestion in space systems
[AD-A143973] 23 p3697 N84-33426
Information systems: The challenge of the future for the Air Force Communications Command
[AD-A144277] 24 p3969 N84-35129

RANDOM APPLICATIONS, INC., MONTROSE, COLO.
Applications of differential phase statistics to studies of c3 and spread spectrum communications
[AD-A142204] 19 p3007 N84-29063
RANDOMLINE, INC., HUNTINGDON VALLEY, PA.
Behavioral and prenatal effects of 60-Hz fields
[DE84-001126] 05 p0712 N84-14664
RANGE COMMANDERS COUNCIL, WHITE SANDS MISSILE RANGE, N. MEX.
Joint operating procedure for interrange scheduling
[AD-A130680] 01 p0017 N84-10111
Range reference atmosphere 0-70Km altitude, Wallops Island, Virginia
[AD-A131327] 02 p0254 N84-11661
Dugway, Utah range reference atmosphere 0-30 Km altitude
[AD-A131110] 02 p0254 N84-11664
Range reference atmosphere 0-70 km altitude
[AD-A132487] 04 p0567 N84-13737
White Sands Missile Range, New Mexico Range reference atmosphere 0-70 km altitude
[AD-A132471] 04 p0567 N84-13738
IRIG standard for distributing interrange vector acquisition data
[AD-A133617] 06 p0793 N84-15170
Range reference atmosphere 0-30 km altitude, Eglin AFB, Florida
[AD-A133506] 06 p0882 N84-15734
Taquec, Guam Island. Range reference atmosphere 0-30 km altitude
[AD-A133618] 06 p0882 N84-15736
Interrange scheduling and Universal Documentation System (UDS) document development and transmission
[AD-A134398] 07 p0981 N84-16230
Range reference atmosphere 0-70 KM altitude
[AD-A134186] 07 p1036 N84-16722
Barking Sands, Hawaii. Range reference atmosphere 0-70 km altitude
[AD-A137406] 10 p1590 N84-20421
Twelfth Transducer Workshop
[AD-A137304] 11 p1657 N84-20809
Ascension Island, South Atlantic Range reference atmosphere, 0.66 km altitude
[AD-A138470] 12 p1861 N84-22122
Range safety transponder catalog
[AD-A140095] 15 p2270 N84-24631
Digital microwave system design guide
[AD-A139738] 15 p2329 N84-24982
Universal documentation system handbook - an introduction to the universal documentation system
[AD-A140140] 16 p2455 N84-25742
Universal documentation system handbook. Supplement 2: Procedures for the electronic processing of level 1, 2 and 3 test requirements and support information
[AD-A141850] 19 p2980 N84-28886
Flight termination receiver catalog
[AD-A144155] 24 p3894 N84-34657
RASSELSTEIN AKTIENGESELLSCHAFT, NEUWIED (WEST GERMANY).
Improvement of manufacturing of drawn and ironed steel cans
[BMFT-FB-T-83-094] 02 p0198 N84-11286
Detinning of tin plate scrap
[BMFT-FB-T-84-045] 16 p2466 N84-25805
RATIONAL ALTERNATIVES, SANTA FE, N. MEX.
Passive solar design guidelines and evaluation criteria for builders 16 p2516 N84-26153
RATIONALISIERUNGS-KURATORIUM DER DEUTSCHEN WIRTSCHAFT E.V., FRANKFURT (WEST GERMANY).
Laser technology: Material for separating, joining and surface treating
[RKW-836] 16 p2497 N84-26019
RAVEN INDUSTRIES, INC., SIOUX FALLS, S. DAK.
Space Shuttle inflatable training articles
[NASA-CR-171761] 11 p1622 N84-20618
Space Shuttle inflatable training articles. Appendices D and I: Drawings
[NASA-CR-171762] 11 p1622 N84-20619
RAYLO CHEMICALS LTD., EDMONTON (ALBERTA).
Low cost acetylene terminated polymers
[AD-A140040] 19 p2998 N84-28996
RAYTHEON CO., BEDFORD, MASS.
Wideband microstrip ring radiator
[AD-P003507] 21 p3384 N84-31475
RAYTHEON CO., GOLETA, CALIF.
Adaptive cancellation techniques
[AD-A136946] 10 p1481 N84-19680
Designing antennas to price; or the economics of antenna design
[AD-P003412] 19 p3015 N84-29116
RAYTHEON CO., LEXINGTON, MASS.
A 20-GHz IMPATT diode development
[S-3057] 02 p0212 N84-11387
RAYTHEON CO., SUDBURY, MASS.
Manufacturing Methods and Technology (MM&T) program. 10.6 micrometer carbon dioxide TEA (Transverely Excited Atmospheric) lasers
[AD-A137490] 10 p1500 N84-19805
Fault tolerant spaceborne computer 15 p2266 N84-24607
PAS/NEB: A PASCAL language tool for the MCF (Military Computer Family)
[AD-P003535] 21 p3332 N84-31139
RAYTHEON CO., WALTHAM, MASS.
Cathode driven high gain crossed-field amplifier
[AD-A133030] 05 p0676 N84-14441
1 megawatt, 100 GHz gyrotron study
[DE84-006527] 12 p1814 N84-21823
RAYTHEON CO., WAYLAND, MASS.
Antenna pattern characteristics of fine-steered pencil beams
[AD-P003516] 21 p3385 N84-31484
RCA ADVANCED TECHNOLOGY LABS., CAMDEN, N. J.
Multispectral linear array visible and shortwave infrared sensors 23 p3781 N84-33977
RCA ASTRO-ELECTRONICS DIV., PRINCETON, N. J.
Information theoretic models of memory in human decisionmaking models
[AD-P002883] 13 p1978 N84-22844
Evolution and flight history of the Defense Meteorological Satellite Program (DMSP) propulsion module 20 p3137 N84-29917
RCA SATCOM battery in orbit performance update and accelerated life test results 23 p3738 N84-33691
RCA GOVERNMENT COMMUNICATIONS SYSTEMS, CAMDEN, N. J.
On-line traffic monitor
[AD-A131356] 02 p0209 N84-11364
RCA GOVERNMENT SYSTEMS DIV., MOORESTOWN, N. J.
Military Computer Family Operating System: An Ada (trademark) application
[AD-P003427] 20 p3271 N84-30759
Ada (trademark) as a program design language: Have the major issues been addressed and answered?
[AD-P003430] 20 p3271 N84-30762
The impact of NEBULA, MCF (Military Computer Family), and Ada (Trademark) on real-time embedded computer systems
[AD-P003534] 21 p3331 N84-31138
Ada (Trademark) as a program design language. A rational approach to transitioning industry to the world of Ada through a program design language criteria
[AD-P003556] 21 p3335 N84-31160
RCA GOVERNMENT SYSTEMS DIV., PRINCETON, N.J.
Excess science accommodation capabilities and excess performance capabilities assessment for Mars Geoscience and Climatology Orbiter: Extended study
[NASA-CR-173765] 19 p2978 N84-28882
RCA SOLID STATE TECHNOLOGY CENTER, SOMERVILLE, N. J.
Characterization of silicon-gate CMOS/SOS integrated circuits processed with ion implantation
[NASA-CR-161988] 19 p3011 N84-29087
READING UNIV. (ENGLAND).
The United Kingdom SATMaP program
[E84-10002] 04 p0551 N84-13627
Equations of fluid flow, finite difference approximations and basic mathematical properties of each 06 p0834 N84-15430
Exposure to space radiation of high-performance infrared multilayer filters and materials technology experiments (A0056) 15 p2277 N84-24678
The use of Thematic Mapper data for land cover discrimination: Preliminary results from the UK Satmap programme 20 p3216 N84-30428
REEVES (C. RICHARD), AUSTIN, TEX.
High efficiency heat pump using ground heat source
[DE84-006385] 22 p3594 N84-32761
REGIONAL PLANNING COUNCIL, BALTIMORE, MD.
Scenario planning: Energy considerations in the long range urban transportation planning process
[DE84-013590] 22 p3677 N84-33308
REGIS COLL., WESTON, MASS.
Ionospheric irregularities and geomagnetic field fluctuations due to ionospheric heating 05 p0636 N84-14184
RELIABILITY ANALYSIS CENTER, GRIFFISS AFB, N. Y.
Impact of electrostatics on IC (Integrated Circuit) fabrication
[AD-A137372] 10 p1486 N84-19713
RELIABILITY SCIENCES, INC., ARLINGTON, VA.
Electrostatic discharge (ESD) simulator experiment (testing of some switches/relays for application to an ESD simulation circuit)
[AD-A134580] 07 p0998 N84-16468
REMOTE SENSING SYSTEMS, SAUSALITO, CALIF.
New algorithms for microwave measurements of ocean winds 17 p2713 N84-27272
REMTECH, INC., HUNTSVILLE, ALA.
MINIVER upgrade for the AVID system. Volume 1: LANMIN user's manual
[NASA-CR-172212] 01 p0120 N84-10779
MINIVER upgrade for the AVID system. Volume 2: LANMIN input guide
[NASA-CR-172213] 01 p0120 N84-10780
MINIVER upgrade for the AVID system. Volume 3: EXITS user's and input guide
[NASA-CR-172214] 02 p0271 N84-11773
RENSSELAER OBSERVATORY, TROY, N. Y.
Reduced grain boundary mobility and the sintering of molybdenum
[AD-A140265] 16 p2469 N84-25823
RENSSELAER POLYTECHNIC INST., TROY, N. Y.
Fatigue crack growth and low cycle fatigue of two nickel base superalloys
[NASA-CR-174534] 01 p0042 N84-10267
The use of affine transformations in the analysis of stability and vibrations of orthotropic plates 01 p0093 N84-10603
Semiconductor surface characterization using transverse acoustoelectric voltage versus voltage measurements
[AD-A131347] 02 p0298 N84-11955
Composite structural materials
[NASA-CR-174597] 03 p0347 N84-12257
Adaptive finite element methods for parabolic partial differential equations
[NASA-CR-174490] 03 p0417 N84-12727
Physical modeling of the champagne effect
[DE84-001813] 04 p0516 N84-13368
Generating three-dimensional surface models of solid objects from multiple projections
[AD-A132392] 04 p0580 N84-13824
Fatigue of niobium at elevated temperatures
[DE84-001373] 05 p0656 N84-14314
Fault tolerant signal processing using finite fields and error-correcting codes
[AD-A133927] 05 p0667 N84-14386
Numerical methods for singularly perturbed differential equations with applications
[AD-A133741] 05 p0734 N84-14821
Pressure quenched excitonic solids
[AD-A133817] 05 p0753 N84-14940
Biaxial fatigue of graphite/epoxy + or - 45 sub s tubes 06 p0799 N84-15210
Finite element analysis of moisture and external loading effects in composites 06 p0799 N84-15211
Heat capacity and thermodynamic properties of linear macromolecules 06 p0809 N84-15263
Digital communication in the presence of impulsive noise 06 p0827 N84-15392
Direct multivariable model reference adaptive control with applications to large structural systems 06 p0900 N84-15840
Investigation to optimize the passive shock wave-boundary layer control for supercritical airfoil drag reduction
[NASA-CR-173276] 07 p0946 N84-16135
Surface topographical changes measured by phase-locked interferometry
[NASA-CR-3757] 07 p1074 N84-16984
Composite structural materials
[NASA-CR-173259] 08 p1122 N84-17293
Tempering kinetics of alloy steels as a function of quench rate and M sub s temperature
[AD-A134806] 08 p1132 N84-17365
On the effect of fine grain size on the M sub s temperature in Fe-27Ni-0.025C alloys
[AD-A134807] 08 p1133 N84-17366
Emission FTIR analyses of thin microscopic patches of jet fuel residue deposited on heated metal surface
[NASA-CR-166331] 08 p1139 N84-17410
Simply instrumentable and optimal digitization of analog information sources
[AD-A135124] 08 p1150 N84-17484
Nonlinear systems in infinite dimensional state spaces
[AD-A136530] 09 p1384 N84-19042
Cochlear mechanics: Analysis for a pure tone
[AD-A136438] 09 p1386 N84-19055
Excitonic solids
[AD-A135972] 09 p1396 N84-19115
Protective oxide films
[DE84-004088] 10 p1461 N84-19543
Modeling the mechanical behavior of elastomeric styrene-butadiene-styrene block copolymers 11 p1635 N84-20693
The analysis of elastic-plastic deformation and stress at finite strain and their evaluation
[AD-A137931] 11 p1669 N84-20887
Physical processes in fluids
[NASA-CR-170990] 12 p1814 N84-21827
The effect of fluid inertia and viscoelasticity in squeeze-film damper bearings
[AD-A138054] 12 p1822 N84-21880

Interactive graphics for geometry modeling
12 p1873 N84-22207
Investigation of the effects of pressure gradient, temperature and wall temperature ratio on the stagnation point heat transfer for circular cylinders and gas turbine vanes
[NASA-CR-174667] 14 p2109 N84-23649
Research and research needs in colloidal interactions
[PB84-161231] 14 p2124 N84-23731
Asymptotics and numerics
[AD-P002934] 14 p2196 N84-24174
A numerical technique in the hydrodynamic theory of foil bearings
[AD-P002966] 14 p2200 N84-24204
Stability of plane near-equidiffusional flames without invoking the constant-density approximation
[AD-P002972] 14 p2201 N84-24208
Transient photochemistry of neutral red
[AD-A131564] 18 p2810 N84-27839
Lubricant foaming and aeration study, part 1
[AD-A141298] 18 p2819 N84-27896
Transport processes in dendritic crystallization
18 p2936 N84-28621
Effect of refractory elements on the coherency strain and flow stress on nickel-base superalloys
[AD-A142220] 19 p2994 N84-28975
Adaptive spread spectrum receiver using acoustic surface wave technology
[AD-A142129] 19 p3007 N84-29060
Influence of horizontally-random bottom structure on acoustic intensity in a shallow ocean
[AD-A141383] 19 p3099 N84-29688
Corrosion fatigue of an Al-Zn-Mg alloy and an Al-Mg-Li alloy 21 p3364 N84-31339
Creep-fatigue interactions in advanced eutectic superalloys
[AD-A142872] 21 p3422 N84-31705
Mass transfer from a circular cylinder: Effects of flow unsteadiness and slight nonuniformities
[NASA-CR-174759] 22 p3593 N84-32751
Non-destructive testing of semiconductors using surface acoustic wave
[AD-A143559] 22 p3664 N84-33228
Extended abstracts of the Proceedings of the 2nd International Symposium on Halide Glasses
[AD-A144269] 24 p3888 N84-34624

RESART-IMH A.G., MAINZ (WEST GERMANY).

Research and development on the encapsulation of solar cells with improved potting and cover materials
[BMFT-FB-T-83-309] 15 p2363 N84-25175

RESEARCH AND DATA SYSTEMS, INC., LANHAM, MD.

An analysis of new techniqes for radiometric correction of LANDSAT-4 Thematic Mapper images
[E84-10086] 10 p1521 N84-19957
Users guide for ERB 7 MAT (including the first year quality control)
[NASA-CR-170514] 13 p2026 N84-23134
An analysis of the high frequency vibrations in early Thematic Mapper scenes 20 p3210 N84-30395

RESEARCH INST. OF COLORADO, FORT COLLINS.

Photodeposition of nitride insulators on 3-5 substrates
[NASA-CR-173393] 12 p1797 N84-21720
Conduct of the International Multigrid Conference
[NASA-CR-173823] 19 p3090 N84-29618

RESEARCH INST. OF NATIONAL DEFENCE, LINKOEPING (SWEDEN).

Computer model for a circular symmetric cavity with application for lens antennas
[FOA-C-30332-E] 02 p0211 N84-11380
Frequency stabilization of carbon dioxide lasers
[FOA-C-30328-E1] 02 p0228 N84-11496
The radiance from an isotropic point source in a multiple scattering medium
[FOA-C-30326-E2] 02 p0295 N84-11935
Observations and classifications with a 35/94 GHz radiometer of terrain near Motala, Sweden, July 1982
[FOA-C-30325-E1,E3] 03 p0402 N84-12630
A computer model for an imaging coherent laser radar
[FOA-C-30341-E] 06 p0826 N84-15388
Microwave tubes: Literature survey number 4, comprising the year 1982
[FOA-C-30331-E] 06 p0831 N84-15407
Landsat 4 TM-data: Examples of resolution capacity
[FOA-C-30329-E1] 06 p0867 N84-15644
Image processing for low resolution target finders
[FOA-C-30297-E1,E3] 07 p0962 N84-16238
Control unit for frequency shift for short wave radio transmission
[FOA-C-30269-E2] 07 p0994 N84-16447
Information technique 1982: Underwater technique
[FOA-C-30296-E1,E2,E3] 07 p1085 N84-17058
SAPIENS MEMO 5: The mechanical design of the EMP-simulator SAPIENS
[FOA-C-30320-A3] 08 p1106 N84-17192
Investigation of encryptation for satellite communications
[FOA-C-30300-E1] 08 p1146 N84-17457
Nuclear explosion effects on telecommunication, etc. (effect of EMP and of ionizing radiation on electronics and optical electronics
[FOA-C-30302-A3] 08 p1146 N84-17458
Comparative antenna measurements in real environment: Steerable null antenna at 30 - 76 MHz
[FOA-C-30303-E2] 08 p1146 N84-17459
A program for computer-controlled impedance measurement within the microwave range
[FOA-C-30330-E3] 08 p1146 N84-17460
Silent radar: A study of the performances of a navigational radar with limited range
[FOA-C-30334-E1] 08 p1146 N84-17461
Transmission line transformers; theory and design data
[FOA-C-30327-E] 08 p1152 N84-17503
Distance measurement to line of sight obstacles close to roads, a commission from Statens Vaeg och Trafikinstitute (VTI)
[FOA-C-30333-E1] 08 p1165 N84-17586
Report from the URSI Commission F Symposium on Wave Propagation and Remote Sensing
[FOA-C-30340-E2] 08 p1179 N84-17682
Development of a computer program for road detection in satellite images
[FOA-C-30316-E1] 08 p1214 N84-17917
Desk-top computer controlled instrument lathe for machining with high form accuracy
[FOA-C-30339-E1,E3] 08 p1214 N84-17918
Image analysis with use of range information
[FOA-C-30335-E1] 08 p1222 N84-17979
Some signal processing methods based on covariance estimates of signal and noise
[FOA-C-30343-E1] 10 p1484 N84-19701
Studiee and tests of pyroelectric vidicons
[FOA-C-30317-E1] 10 p1489 N84-19738
A controller for frequency hopping, with a frequency synthesizer
[FOA-C-30350-E4] 10 p1489 N84-19739
LINUS, a line-selective equipment for AGA thermovision
[FOA-C-30348-E4] 10 p1500 N84-19802
Future sea mapping technique: Travel report. Activities in sea mapping technique, laser technique and acoustics at some institutes in Northern Europe
[FOA-C-30346-E1] 10 p1527 N84-20002
An improved version of the chamfer matching algorithm
[FOA-C-30344-E1] 10 p1572 N84-20303
Characterization of microstrip fixtures, a broadband model for a microstrip connector
[FOA-C-30336-E] 12 p1814 N84-21824
The research of National Defence's (FOA) future policy document on space technology
[FOA-A-30034-E1] 15 p2265 N84-24602
Design and calibration of a CW coherent laser radar
[FOA-C-30345-E1] 15 p2320 N84-24930
Diffraction of a line sink field
[FOA-C-30353-E] 15 p2320 N84-24931
Informatics 1983: Signal processing
[FOA-A-30033-E] 15 p2321 N84-24932
Contour-to-grid transformation: Development of a method for generation of a sparse grid structure out of terrain elevation contours
[FOA-C-30349-E1] 15 p2359 N84-25156
Activities report of the Laboratory for Computer Science (FOA 32)
[FOA-C-30356-E1] 15 p2388 N84-25326
Programs for handling Raster Chain (RC) coded images
[FOA-C-30351-E1] 15 p2390 N84-25341
Computer program for treating and compiling ionospheric data
[FOA-C-30354-E] 15 p2391 N84-25346
Geometrical transformation of binary images
[FOA-C-30342-E1] 15 p2397 N84-25380
Reporting of indication data
[FOA-C-30352-E] 15 p2407 N84-25446
Data base dependent aggregation operators in a map oriented information system
[FOA-C-30347-E1] 15 p2417 N84-25514
Backscatter from a corner reflector close to a two-antenna radar system
[FOA-C-30355-E1] 18 p2830 N84-27968
Near field effects in radiometer measurements
[FOA-C-30357-E1] 18 p2830 N84-27969
Proceedings of the Conference on Microwave Signatures in Remote Sensing
[FOA-C-30359-E1,E3] 19 p3042 N84-29305
Radio spectrum conservation technique
[FOA-C-30358-E2] 23 p3732 N84-33653
Transient circuit overvoltages in Swedish manufacturing industry
[FOA-E-30002-E26] 23 p3744 N84-33735
Effects of transient ionizing radiation in various generations of TTL-circuits in the 54/74 series
[FOA-C-30365-A3] 23 p3744 N84-33736
Scintillometer for measuring atmospheric turbulence
[FOA-C-30363-E1] 23 p3752 N84-33785
Apparatus for the determination of ion drift in MIS structures
[FOA-C-30360-E1] 23 p3831 N84-34301

RESEARCH INST. OF NATIONAL DEFENCE, STOCKHOLM (SWEDEN).

Ballistic impact on carbon fiber reinforced epoxy composites
[FOA-C-20497-F9] 02 p0189 N84-11227
A method for the preparation of small particles of pure compounds or of compounds containing small amounts of foreign elements
[FOA-C-20502-A1] 02 p0192 N84-11246
Coherence of appraisal and coping: Parachute jump effectiveness
[FOA-C-55058-H3] 03 p0416 N84-12724
Description of a calibrator for piezoelectric pressure transducers
[FOA-C-20496-D4] 05 p0686 N84-14507
Experimental technique for handling and analysis of particles collected after nuclear explosions
[FOA-C-20503-A1] 05 p0746 N84-14899
Resin development in advanced composites
[FOA-C-20509-F9] 06 p0799 N84-15208
Investigation of the positioning system at Recal-Decca Survey Ltd. (RDS), London
[FOA-C-20476-D8(E2,E3)] 07 p0950 N84-16162
The strategic balance, the MX-system and deficiencies in the SALT Treaty
[FOA-C-10207-M3] 07 p0962 N84-16235
Path correction of free flight projectiles by cross firing of subsidiary projectiles
[FOA-C-20468-D3] 07 p0962 N84-16236
Investigation on Kpsi-guidance (quasi-objective carrying guidance)
[FOA-C-20482-E3] 07 p0962 N84-16237
A literature survey of the electrical resistance and thermal properties of modern composites and of the fibers and matrices that constitute them
[FOA-C-20505-D6(F9)] 07 p0968 N84-16274
Photogrammetric method for determining geometric visual perception
[FOA-C-20478-D8] 07 p1008 N84-16539
RSAW: A computer program for processing and presentation of geographic information
[FOA-C-20473-D8(F8)] 07 p1085 N84-17057
Explosion and fire hazards in an oil-oxygen system
[FOA-C-20507-D1] 08 p1101 N84-17159
Terminal work in the process industry: Experience in a time perspective. Part 2: A few years after the installation
[FOA-C-56039-H2-PT-2] 08 p1141 N84-17422
Technical theory of pneumatic beams
[FOA-C-20504-E4] 08 p1172 N84-17634
Preliminary field tests for detecting flying targets in front of a land background
[FOA-C-56033-H2] 08 p1204 N84-17847
Detection of flying targets in front of a land background: Laboratory tests
[FOA-C-56034-H2] 08 p1204 N84-17848
Detection of flying targets in front of a land background: Field tests
[FOA-C-56035-H2] 08 p1204 N84-17849
Man and machine. The role of human factors in system development
[FOA-A-56005-H2] 08 p1206 N84-17863
Protection against heat radiation in the steel industry
[FOA-C-20500-E4] 08 p1206 N84-17864
Improvement of the memory allocation algorithm for evaluating query language expressions in the relational database handler CANTOR
[FOA-C-20508-D8] 08 p1213 N84-17916
Reduction of propeller noise by a reflecting rubber layer
[FOA-C-20506-E4] 08 p1228 N84-18025
Psychological research in USA within the areas of anti-tank helicopter operations and man-computer interactions: Study trip to USA, May-June 1983
[FOA-C-53012-H2] 10 p1552 N84-20172
Report on study trip to France, 28 June-9 July 1983
[FOA-C-59007-H1] 10 p1555 N84-20193
Current tube description of the focus plasma
10 p1584 N84-20379
Filamentation in the plasma focus as a plasma Meissner effect 10 p1584 N84-20380
Report on an information trip to Holland, August - September 1983
[FOA-C-59006-H2] 10 p1592 N84-20431

Multipath propagation at 11, 18, and 36 GHz due to ducting
[FOA-C-20511-E2] 12 p1810 N84-21800
Rain attenuation at 11, 18, and 36 GHz
[FOA-C-20512-E2] 12 p1810 N84-21801
Deconvolution based on source scaling applied to teleseismic signals
[FOA-C-20514-T1] 12 p1848 N84-22046
Base blend projectiles: Range calculation program and efficiency comparisons
[FOA-C-20516-D2] 15 p2280 N84-24695
Aging control number 4 of gas generator grains for RB 05 and RB 24
[FOA-C-20528-D1(D3)] 15 p2303 N84-24820
Hazardous conditions in single enclosures subjected to fire
[FOA-C-20524-D6] 15 p2305 N84-24831
Test of a system for positioning: Sensitron
[FOA-C-20519-D8] 15 p2336 N84-25023
Air blast loadings on building elements from detonating 8.4 Kg Comp high explosive charges
[FOA-C-20522-D4] 15 p2349 N84-25102
Blast loadings of emergency exits for air-raid shelters type E
[FOA-C-20530-D4(D6)] 15 p2350 N84-25103
Measurement of small amounts of xenon-133 in air: Report on a series of measures and tests in Stockholm and in Ljungbyhed
[FOA-C-20515-A1] 15 p2366 N84-25197
Tube waves recorded in a seismic crosshole experiment
[FOA-C-20521-E1] 15 p2368 N84-25208
Human factors in weapon systems
[FOA-A-56006-H2] 15 p2384 N84-25297
A computer program for mapping regions in a geographic data base with raster structure
[FOA-C-20529-D8] 15 p2390 N84-25340
Real-time simulation in a terrain model: Mathematical description
[FOA-C-56041-H2] 15 p2390 N84-25343
Microexplosions in boreholes
[FOA-C-20523-E1] 15 p2406 N84-25445
What's domain skill? Frames in information seeking
[FOA-C-53014-H2] 15 p2417 N84-25515
A geographic information system for forest management
[FOA-C-20531-D8] 15 p2418 N84-25516
Attempt to study by ocular inspection the influence of rubber quality on the sealing effects of O-rings
[FOA-C-20526-E4] 16 p2498 N84-26030
Travel report from the first International Programming Conference
[FOA-C-20520-D8] 16 p2544 N84-26332
Analysis of incidents during helicopter missions
[FOA-C-53016-H2] 18 p2790 N84-27706
Correlations between incidents during helicopter missions and background variables and moods
[FOA-C-53017-H2] 18 p2790 N84-27707
Parachuting in night conditions
[FOA-C-59010-H1] 18 p2790 N84-27708
Tomographic velocity estimation in the presence of low velocity zones
[FOA-C-20535-E1] 18 p2880 N84-28287
Report on a visit to England, 7-10 November 1983
[FOA-C-59009-H1] 18 p2901 N84-28402
The military aircrew work environment
[FOA-A-59005-H1-H2] 18 p2915 N84-28490
Color order systems for computer graphics. Part 1: Transformation of Natural Color System (NCS) data into CIELAB color space
[FOA-C-53013-H2] 18 p2922 N84-28528
Parachute descent from altitude 5000 to 7000 meters
[FOA-C-59008-H1] 19 p2959 N84-28756
Plastic rotating bands, obturators and sabots
[FOA-C-20534-D2] 19 p2996 N84-28985
FOA-SUB underwater vehicle system: A brief description of the system and its state, Spring 1984
[FOA-C-20536-E1(E3)] 19 p3003 N84-29030
Cutting of fiber reinforced polymers with a CW CO-2 laser: An experimental study
[FOA-C-20527-D9] 19 p3030 N84-29220
Computer-aided mapping in the USA: Experiences from a study tour in November 1983
[FOA-C-20533-D8] 19 p3042 N84-29304
Improved G-Tolerance with assisted positive pressure breathing and anti-gravity suit with ready pressure and faster filling
[FOA-A-58002-H1] 19 p3071 N84-29486
General principles in text analysis
[FOA-C-56042-H2] 19 p3116 N84-29804
Third World Congress on Emergency and Disaster Medicine
[FOA-C-52005-H4] 20 p3260 N84-30692
Common data base experiment: Detection and location capacity
[FOA-C-20538-T1] 20 p3316 N84-31058

RESEARCH INST. OF NATIONAL DEFENCE, UMEA (SWEDEN).
Immobilization of biomolecules on semiconductor surfaces
[FOA-C-40178-C2(B2,A3)] 06 p0831 N84-15408
Dose conversion factors for inhaled radionuclides
[FOA-C-40184-A3] 06 p0890 N84-15786
Airborne fallout monitoring
[FOA-A-40045-A3] 08 p1183 N84-17705
Risk models for risk distance prediction during release of toxic industrial chemicals caused by acts of war
[FOA-C-40185-C2(H2)] 08 p1183 N84-17707
A model for simulation of a fluctuating plume
[FOA-C-40165-A1(C1)] 08 p1188 N84-17741
Effectiveness of a device for detection of bacteriological aerosols; improvements in standardization and sensitivity in the laboratory
[FOA-C-40175-B2] 10 p1546 N84-20132
DARK: A computer based system for simulating the potential hazards from releases of pressurized gases
[FOA-C-40183-C2] 10 p1565 N84-20255
Interactive computer program VISION 4 (visual information system interactive online for FOA 4) for plotting and data analysis
[FOA-C-40182-A3,B2,C2] 15 p2390 N84-25342
Method for evaluation of petroleum products corrosivity using piezoelectric crystals, part 1
[FOA-C-40189-B4-PT-1] 23 p3726 N84-33611
The stability of atropine, stored in the Swedish autoinjector
[FOA-C-40191-C3] 23 p3805 N84-34127

RESEARCH TRIANGLE INST., RESEARCH TRIANGLE PARK, N.C.
Personal exposure to volatile organics and other compounds indoors and outdoors: The TEAM (Total Exposure Assessment Methodology) study
[PB83-231357] 01 p0115 N84-10744
Optimization of GC/MS based Tenax collection method for toxic organics
[PB83-229476] 02 p0222 N84-11455
CDTI target selection criteria
[NASA-CR-3776] 08 p1104 N84-17178
Technology transfer of the air quality assessment model
[AD-A139582] 14 p2173 N84-24018
Effects of aircraft and flight parameters on energy-efficient profile descents in time-based metered traffic
[NASA-CR-172338] 17 p2604 N84-26685
Evaluation of sampling methods for gaseous atmospheric samples
[PB84-190735] 20 p3151 N84-30012
Sampling report for the study of personal CO (carbon monoxide) exposure
[PB84-181957] 20 p3239 N84-30560
Comprehensive silicon solar cell computer modeling
[NASA-CR-173953] 23 p3788 N84-34025

RESOURCE CONSULTANTS, INC., FORT COLLINS, COLO.
Snowpack ground-truth manual
[NASA-CR-170584] 02 p0239 N84-11569

RESOURCE INTERNATIONAL, INC., COLUMBUS, OHIO.
Mechanistic methodology for airport pavement design with engineering fabrics. Volume 1: Theoretical and experimental base
[DOT/FAA/PM-84-9.1] 24 p3857 N84-34450

RETINA FOUNDATION, BOSTON, MASS.
Eye movements and spatial pattern vision
[AD-A140949] 18 p2914 N84-28481

RF MONOLITHICS, INC., DALLAS, TEX.
Etched cavity SAW (Surface Acoustic Wave) resonator elements for multipole filter applications
[AD-A131002] 02 p0288 N84-11886

RHEOLOGY RESEARCH, GAITHERSBURG, MD.
Development of methods of evaluation extensional properties of polymer solutions from measurements of shear
[AD-A140451] 16 p2472 N84-25845

RHODE ISLAND UNIV., KINGSTON.
The Gordon Research Conference on Holography and Optical Information Processing
[AD-A129137] 02 p0293 N84-11923
Gordon Conference on Physical Metallurgy (1983)
[AD-A134034] 05 p0653 N84-14295
The Role of Oxygen Radicals in Biology and Medicine
[AD-A133053] 05 p0712 N84-14663
Design and prototype implementation of SCAN: A programming language for scene analysis
08 p1210 N84-17893
Fixed point implementations of fast Kalman algorithms
[AD-A136188] 09 p1378 N84-19005
Parallel implementation of likelihood-based estimation and detection 09 p1400 N84-19148
Studies of the velocity structure of the Gulf Stream east of Cape Hatteras
[AD-P002663] 11 p1691 N84-21028
DATMAN FORTRAN user's guide version 3.0
[PB84-149251] 12 p1885 N84-22289
Boron in the marine atmosphere
13 p2010 N84-23038
Fluvial drainage systems: Margaritifer Sinus and Agyre (NC, NE) quadrangles, Mars 13 p2083 N84-23497
Eolian quartz granulometry as a paleowind indicator in the Northeast Equatorial Atlantic, North Pacific and Southeast Equatorial Pacific 23 p3796 N84-34069
Shelf circulation studies on the northeastern United States Continental Shelf 23 p3803 N84-34111
On the estimation of the 1st-order autoregressive parameter
[AD-A144284] 24 p3950 N84-35014

RHODE ISLAND UNIV., NARRAGANSETT.
Arctic haze: Natural or pollution?
[AD-A134263] 07 p1039 N84-16737

RICARDO & CO., ENGINEERS (1927) LTD., SHOREHAM-BY-SEA (ENGLAND).
Evaluation of unthrottled combustion system options for light duty applications with future syncrude derived fuels
[DE83-017047] 03 p0358 N84-12327
Optimum engine for methanol utilization
[PB83-239459] 03 p0385 N84-12507

RICE INST., HOUSTON, TEX.
A new approach to synthesis problems in linear system theory
[PB84-124742] 09 p1379 N84-19014

RICE (PHILIP L.), BOULDER, COLO.
Modification of the Propagation Measurement File (PMF)
[PB84-169796] 17 p2655 N84-26980

RICE UNIV., HOUSTON, TEX.
Metallurgical characterization of Niobium/Tin superconducting multifilamentary wires
[AD-A131018] 01 p0044 N84-10281
A critical analysis of the uses of multiple regression in the study of human judgement
[AD-A131224] 01 p0116 N84-10755
Computational methods for static and dynamic systems and engineering applications
[PB83-227314] 01 p0135 N84-10884
Modified quasilinearization algorithm for optimal control problems with nondifferential constraints and general boundary conditions. Part 1: Theory
[PB83-226944] 01 p0135 N84-10885
Modified quasilinearization algorithm for optimal control problems with nondifferential constraints and general boundary conditions. Part 2: Examples
[PB83-226936] 01 p0135 N84-10886
The measurement of the diffusive motion of protons in biological systems
[AD-A129276] 01 p0142 N84-10930
Multivariate density estimation and remote sensing
03 p0393 N84-12560
New conformal solution theory
[PB83-249441] 03 p0457 N84-13008
Prediction of multicomponent liquid-mixture viscosity from binary thermodynamic data
[DE83-011934] 04 p0536 N84-13524
Cognitive components underlying the digit symbol test
[PB83-250464] 04 p0574 N84-13779
Self-consistent magnetosphere for a static aligned rotator 04 p0619 N84-14085
Optical measurements of a large-scale laboratory Beam Plasma Discharge (BPD) 05 p0638 N84-14196
Optimal approximation algorithms for digital filter design 05 p0673 N84-14420
High latitude field aligned currents
05 p0702 N84-14605
Study to syntheaize and interpret data from several satellites and ground magnetometers
[AD-A132670] 05 p0703 N84-14616
The temporal evolution of short scale striations in the heated ionosphere 05 p0706 N84-14631
Study plasma interactions in the auroral ionosphere
[NASA-CR-175352] 07 p1032 N84-16698
Conformal solution methods based on the hard convex body expansion theory, section 1
[PB84-100940] 08 p1128 N84-17332
Review of radio-frequency, nonlinear effects on the ionosphere
[DE84-003832] 08 p1188 N84-17739
Fluid mechanical aspects of cell culture
[NASA-CR-171749] 09 p1360 N84-18886
Algorithms for computing (H sup (infinity symbol)) optimal transfer functions
[PB84-127448] 09 p1380 N84-19015
Modular matrix multiplication on a linear array
[AD-A139852] 15 p2400 N84-25404
Self-regulating galaxy formation. Part 1: HII disk and Lyman alpha pressure
[NASA-CR-173592] 16 p2577 N84-26535
Thermodynamic and kinetic properties of interstitial solid solutions
[AD-A132783] 18 p2942 N84-28659

Infrared absorption spectroscopy with color center lasers
[DE84-006812] 19 p2990 N84-26945
Imagery and spectroscopy of supernova remnants and H-2 regions
[NASA-CR-171799] 19 p3121 N84-29841
Phase and volumetric studies for methane/synthesis gas separations: The hydrogen-carbon monoxide-methane system
[PB84-214394] 21 p3375 N84-31417
The effect of information display format on multiple-cue judgment
[AD-A142884] 21 p3459 N84-31941
Supersonic metal cluster beams
[DE84-012976] 22 p3556 N84-32516
Optional stopping performance under graphic and numeric CRT formatting
[AD-A143274] 22 p3586 N84-32712

RIJKSDIENST VOOR DE IJSSELMEERPOLDERS, LELYSTAD (NETHERLANDS).
Long term policy planning concerning Harderbos (Netherlands)
[REPT-178] 21 p3432 N84-31777
The use of aquatic plants to purify waste water in recreational waters
[REPT-226] 21 p3437 N84-31805

RIO GRANDE ASSOCIATES, HOUSTON, TEX.
The temperature sensitivity of doubly rotated quartz resonators
[AD-A142537] 20 p3178 N84-30186

RISO NATIONAL LAB., ROSKILDE (DENMARK).
A study of the weather record from Fanoe (1872-1980) including an analysis of climate variation
[AD-A136694] 10 p1540 N84-20090

RIVERSIDE RESEARCH INST., NEW YORK.
Communication system studies for the submarine laser communications system
[AD-A135661] 09 p1301 N84-18504

ROBERTS ASSOCIATES, INC., VIENNA, VA.
Analysis of electrophoresis performance
[NASA-CR-171034] 15 p2286 N84-24716
Mathematical model for a simplified Bridgman-Stockbarger crystal growing system
[NASA-CR-171108] 21 p3504 N84-32202

ROCHESTER GENERAL HOSPITAL, N. Y.
Prosthetic occlusive device for an internal passageway
[NASA-CASE-MFS-25740-1] 02 p0265 N84-11744
Development and marketing of a prosthetic urinary control valve system
[NASA-CR-170994] 12 p1867 N84-22168

ROCHESTER INST. OF TECH., N. Y.
LANDSAT 4 band 6 data evaluation
[E84-10001] 02 p0235 N84-11543
LANDSAT 4 band 6 data evaluation
[E84-10012] 02 p0236 N84-11550
LANDSAT 4 band 6 data evaluation
[E84-10054] 05 p0697 N84-14574
LANDSAT 4 band 6 data evaluation
[E84-10119] 13 p2005 N84-23009
On some dynamic problems in layered elastic-viscoelastic beams 15 p2309 N84-24856
Evaluation of the radiometric integrity of LANDSAT-4 Thematic Mapper band 6 data 20 p3207 N84-30375
LANDSAT 4 band 6 data evaluation
[E84-10175] 21 p3427 N84-31737

ROCHESTER UNIV., N. Y.
Resonance fluorescence of many interacting adatoms at a metal surface
[AD-A129866] 01 p0038 N84-10239
Laser-induced bound states at surfaces: Ion neutralization and adsorption
[AD-A130278] 01 p0086 N84-10562
Microwaves, hyperthermia, and human leukocyte function
[PB83-225375] 01 p0115 N84-10746
Resonance fluorescence of a two-level atom near a metal surface
[AD-A130277] 01 p0141 N84-10928
Development of a focussing-crystal spectrograph for X-rays from laser-fusion targets
[DE83-012802] 01 p0148 N84-10973
Optical systems and statistical optics
[AD-A131297] 02 p0294 N84-11928
Four frames suffice. A provisionary model of vision and space
[AD-A132359] 04 p0580 N84-13825
Advanced Hough transform implementations
[AD-A132522] 04 p0589 N84-13890
Two-dimensional accretion disk structure and stability 04 p0620 N84-14090
Localized magnetization arising from spin-dependent impurity potentials in the Wolff model
[AD-A133652] 05 p0742 N84-14871
Application of the density matrix multipole expansion to stark quantum beats from beam-foil-excited hydrogen atoms
[AD-A133603] 06 p0797 N84-15193
An experimental investigation of the boundary layer structures in a partially-filled horizontal and rapidly-rotating cylinder 06 p0832 N84-15414
Instability and transition in the boundary layer 06 p0846 N84-15516
Development of an XUV amplifier 06 p0848 N84-15532
Exposure chamber for studies of pollutant gases and aerosols in human subjects: Design considerations
[DE84-001135] 06 p0890 N84-15785
Emission of short-wavelength photons from ion-surface charge exchange
[AD-A133183] 06 p0914 N84-15942
Observations of the unidentified 3.3 microns emission feature in compact HII regions 06 p0937 N84-16089
Software clock-divider
[DE84-001266] 07 p1053 N84-16817
Laser-induced molecular dynamics: Rate processes in the gas phase and at solid surfaces
[AD-A134426] 07 p1072 N84-16962
Resonance fluorescence and photon trapping of two atoms on a metallic surface
[AD-A134512] 07 p1072 N84-16964
Synthesis and characterization of binuclear Schiff base complexes of nickel, copper, and manganese
[AD-A135493] 08 p1132 N84-17360
Theoretical aspects of laser-induced periodic surface structure formation
[AD-A134875] 08 p1164 N84-17581
Hierarchical cache accumulators for sequential mode estimation
[AD-A134698] 08 p1212 N84-17908
Time-varying speckle phenomena in astronomical imaging and in laser scattering 08 p1242 N84-18118
Development of X-ray laser media. Measurement of gain and development of cavity resonators for wavelengths near 130 angstroms, volume 1
[AD-A136305] 09 p1320 N84-18621
Development of X-ray laser media. Measurement of gain and development of cavity resonators for wavelengths near 130 angstroms, volume 2
[AD-A136306] 09 p1320 N84-18622
Development of X-ray laser media. Measurement of gain and development of cavity resonators for wavelengths near 130 angstroms, volume 3
[AD-A136307] 09 p1320 N84-18623
Theoretical study of laser-stimulated chemical vapor deposition processes of importance in microelectronics
[AD-A136433] 09 p1321 N84-18631
Laser-induced electron-phonon processes on metal surfaces
[AD-A136435] 09 p1321 N84-18632
Laser-induced surface migration via surface plasmons
[AD-A136436] 09 p1321 N84-18633
Laser-induced neutralization and negative-ion formation in surface scattering
[AD-A135907] 09 p1322 N84-18641
Characterization of scattering media using non-Gaussian speckle patterns
[AD-A136465] 09 p1388 N84-19065
The role of phonons in the excitation and relaxation of adspecies
[AD-A137066] 10 p1455 N84-19504
Inertial fusion research at the University of Rochester: Progress in direct drive
[DE84-003691] 10 p1501 N84-19807
Solid modelling: History, status and current research directions 12 p1870 N84-22187
Nonlinear optics with broad-band lasers
[DE84-005769] 12 p1908 N84-22432
Resonance fluorescence of a two-level atom near a metal surface. 2: Case of a strong driving field
[AD-A138275] 12 p1914 N84-22469
Negative-ion formation from surface scattering and the Anderson correlation energy U
[AD-A138390] 12 p1914 N84-22473
Fracture toughness processes
[DE84-007244] 13 p2002 N84-22989
Computer and database location in designing distributed computer systems 13 p2066 N84-23399
Short-pulse short-wavelength optical probe for laser plasma
[DE84-008336] 14 p2230 N84-24375
Critical quantum fluctuations in optical bistability 14 p2232 N84-24391
Bistable operation of two semiconductor lasers in an external cavity: Rate-equation analysis 14 p2233 N84-24400
Observation of bistability in a Josephson device 14 p2235 N84-24409
Theory of multistability in Josephson junction devices 14 p2235 N84-24410
Intrinsic instabilities in homogeneously broadened lasers 14 p2235 N84-24411
Conductivity in semiconductors induced by vibrational-to-electronic energy transfer
[AD-A140094] 16 p2553 N84-26380
The ROE file system
[AD-A140497] 16 p2567 N84-26473
Theory of laser-induced surface chemistry with applications to microelectronics and heterogeneous catalysis
[AD-A141832] 19 p2989 N84-28938
Investigation of sol-gel antireflection coatings
[DE84-008381] 19 p3030 N84-29218
Microwaves and human leukocyte function: Exposure of human mononuclear leukocytes to microwave energy pulse-modulated at 16 Hz or at 60 Hz
[AD-A141071] 19 p3065 N84-29443
Characterization of micron-sized, optical coating defects by photothermal deflection microscopy
[DE84-011150] 20 p3301 N84-30960
Nonlocal heat transport by non-Maxwellian electrons
[DE84-012391] 20 p3306 N84-31000
Observation of scattered light between Omega-2 and 3/2-Omega in short wavelength laser produced plasmas
[DE84-012533] 20 p3306 N84-31001
A new model of Raman spectra in laser produced plasma
[DE84-012487] 20 p3307 N84-31005
The effects of internal stress and phase transformations on fracture 21 p3417 N84-31671
A superconducting microwave parametric converter transducer sensitive to 10 to the minus nineteenth power m harmonic motion 21 p3489 N84-32112
A new model of Raman spectra in laser produced plasma
[DE84-009625] 21 p3501 N84-32188
How useful are odd-integer half-harmonics
[DE84-012392] 21 p3501 N84-32190
Optical and infrared polarization as a probe of matter near stars 21 p3524 N84-32324
Formation of electron-hole pairs in a semiconductor by vibrationally-excited molecules
[AD-A143552] 22 p3664 N84-33226
Efficient editing of solid models by exploiting structural and spatial locality
[TM-46] 23 p3815 N84-34190
Boolean operations in solid modelling: Boundary evaluation and merging algorithms
[TM-26] 23 p3818 N84-34207
Laser control of chemical reactions
[AD-A144359] 24 p3908 N84-34758

ROCKEFELLER UNIV., NEW YORK.
Hadron-hadron collider group
[DE83-010704] 03 p0437 N84-12865
Pea amyloplast DNA is qualitatively similar to pea chloroplast DNA 09 p1359 N84-18877

ROCKET RESEARCH CORP., REDMOND, WASH.
Hydrazine APU starter development
[AD-A131575] 02 p0180 N84-11175
Hot gas APU starter for advanced aircraft applications 03 p0335 N84-12178
Performance verification tests of an uprated augmented catalytic thruster 20 p3136 N84-29911
Radiative resistojet performance characterization tests
[NASA-CR-174763] 23 p3701 N84-33462

ROCKETDYNE, CANOGA PARK, CALIF.
Super integrated power unit for fighter aircraft 03 p0335 N84-12183
Atomization and mixing study
[NASA-CR-170943] 06 p0834 N84-15428
Space shuttle main engine turbopump transducer
[AD-P002680] 11 p1658 N84-20817
Inorganic halogen oxidizers
[AD-A139127] 14 p2121 N84-23714
Production of hydrogen from renewable resources
[DE84-000082] 14 p2132 N84-23780
Methane heat transfer investigation
[NASA-CR-171051] 19 p3001 N84-29018
SSME modifications for on-demand launch vehicles 20 p3136 N84-29914
LOX/CH4 for reusable high performance booster engines 20 p3138 N84-29926
Retardation analytical model to extend service life
[NASA-CR-173891] 22 p3608 N84-32862
Research study for effects of case flexibility on bearing loads and rotor stability
[NASA-CR-171147] 23 p3756 N84-33811

ROCKWELL INTERNATIONAL CORP., ANAHEIM, CALIF.
Mechanisms and kinetics of diphthalocyanine electrode processes
[AD-A131726] 03 p0349 N84-12270

Theoretical and experimental investigation of heterojunction interfaces
[AD-A135896] 09 p1395 N84-19111
Development of low cost custom hybrid microcircuit technology
[NASA-CR-161977] 18 p2832 N84-27978
Development of a qualification standard for adhesives used in hybrid microcircuits
[NASA-CR-161978] 18 p2832 N84-27979
Maximum supercooling in liquid 3He-4He mixtures near the tricritical point
[DE84-010076] 22 p3665 N84-33232

ROCKWELL INTERNATIONAL CORP., CANOGA PARK, CALIF.
Space reactor system and subsystem investigations: Assessment of technology issues for the reactor and shield subsystem, SP-100 Program
[DE84-001586] 04 p0603 N84-13979
Space-reactor system and subsystem investigations: Cost and schedule estimates for reactor and shield subsystems technology development. SP-100 program
[DE84-000112] 04 p0603 N84-13984
Comparison of measured and calculated helium production in nickel using newly evaluated neutron cross sections for (59)Ni
[DE84-000565] 04 p0611 N84-14035
SP-100 program: Space reactor system and subsystem investigations
[DE84-003217] 08 p1231 N84-18045
Proceedings of the Passive and Hybrid Solar Energy Update
[CONF-830980] 16 p2513 N84-26125

ROCKWELL INTERNATIONAL CORP., COLUMBUS, OHIO.
Flight evaluation of a linear optical displacement transducer
[AD-A132638] 05 p0630 N84-14141
Study of aerodynamic technology for single-cruise-engine V/STOL fighter/attack aircraft
[NASA-CR-166270] 19 p2956 N84-28738

ROCKWELL INTERNATIONAL CORP., DOWNEY, CALIF.
Space shuttle launch vehicle aerodynamic uncertainties: Lessons learned 01 p0019 N84-10118
Launch vehicle aerodynamic flight test results 01 p0019 N84-10119
Aerodynamic analysis of the loft anomaly observed on orbital flight tests of the space shuttle 01 p0019 N84-10120
Development of space shuttle ignition overpressure environment and correlation with flight data 01 p0020 N84-10127
Approach to establishing the effect of aeroelasticity on aerodynamic characteristics of the space shuttle orbiter 01 p0021 N84-10133
Orbiter entry heating lessons learned from development flight test program 01 p0023 N84-10148
Orbiter windward surface entry Heating: Post-orbital flight test program update 01 p0024 N84-10150
Shuttle TPS thermal performance and analysis methodology 01 p0025 N84-10160
Space shuttle wing leading edge heating environment prediction derived from development flight data 01 p0025 N84-10162
The calibration and flight test performance of the space shuttle orbiter air data system 01 p0026 N84-10165
Development of deployable structures for large space platform systems. Volume 1: Executive summary
[NASA-CR-170913] 01 p0028 N84-10175
Development of deployable structures for large space platforms. Volume 2: Design development
[NASA-CR-170914] 01 p0028 N84-10176
Method and technique for installing light-weight, fragile, high-temperature fiber insulation
[NASA-CASE-MSC-16934-3] 07 p0986 N84-16262
Development of Test Article Building Block (TABB) for deployable platform systems 08 p1111 N84-17226
A deployable structure and solar array controls experiment for STEP 08 p1111 N84-17227
Space Station needs, attributes, and architectural options study
[NASA-CR-173327] 09 p1267 N84-18274
Space Shuttle Orbiter rudder/speed brake actuation system 09 p1295 N84-18461
Ice impact testing of space shuttle thermal protection system materials 10 p1509 N84-19880
Shuttle interaction study
[NASA-CR-173400] 12 p1777 N84-21592
Shutter interaction study extension
[NASA-CR-173401] 12 p1777 N84-21593
Shuttle interaction study extension
[NASA-CR-173398] 12 p1777 N84-21594
Shutter Interaction Study
[NASA-CR-173402] 12 p1777 N84-21595
Shuttle interaction study extension
[NASA-CR-173403] 12 p1777 N84-21596
Constant force friction damper
[NASA-CASE-MSC-20505-1] 13 p1939 N84-22611
Repair techniques for celion/LARC-160 graphite/polyimide composite structures
[NASA-CR-3794] 17 p2617 N84-26752
Space station: Cost and benefits
[NASA-CR-173718] 18 p2806 N84-27815
Directional gear ratio transmissions
[NASA-CASE-LAR-12644-1] 18 p2848 N84-28084
Shuttle orbiter main propulsion system hardware development and certification for flight 20 p3135 N84-29907
The space transportation system reaction control system and orbital maneuvering subsystem 20 p3135 N84-29908
Space Shuttle Orbiter improved auxiliary power unit 20 p3144 N84-29965
Results of the AFRSI detailed-environment test of the 0.035-scale SSV pressure-loads model 84-0 in the Ames 11x11 ft. TWT and the Lewis 8x6 ft. and 10x10 ft. SWT (OA-310A, B, C), volume 2
[NASA-CR-167686] 21 p3351 N84-31260
Results of the AFRSI detailed-environment test of the 0.035-scale SSV pressure-loads model 84-0 in the Ames 11x11 ft. TWT and the Lewis 8x6 ft. and 10x10 ft. SWT (OA-310A, B, C), volume 1
[NASA-CR-167685] 21 p3352 N84-31261
Charge control investigation of rechargeable lithium cells 23 p3736 N84-33671

ROCKWELL INTERNATIONAL CORP., EL SEGUNDO, CALIF.
A flutter optimization program for complete aircraft structural design 02 p0172 N84-11134

ROCKWELL INTERNATIONAL CORP., GOLDEN, COLO.
Changes in acoustic emission peaks in precipitation strenghtened alloys with heat tretment
[DE83-013611] 01 p0045 N84-10289
Development of a unique Physical Metrology Laboratory Recall System
[DE83-017415] 03 p0423 N84-12767
Elastomeric impression materials and cleaning systems for residue removal
[RFP-3442] 06 p0814 N84-15296
Further abbreviation of the machining schedule for producing surface-damage-free beryllium
[DOE/TIC-4500-REV-69] 06 p0814 N84-15297
Component development
[DE84-005829] 11 p1634 N84-20681
Small wind systems field evaluation. Volume 1: Executive summary and program description
[DE84-006916] 12 p1844 N84-22023
Small wind systems field evaluation. Volume 2: Institutional issues
[DE84-006913] 12 p1844 N84-22024
Performance and size estimating for wind systems
[DE84-006980] 13 p2009 N84-23033
Rocky Flats Wind Energy Research Center, fiscal year 1982
[DE84-006829] 14 p2173 N84-24013
Small wind systems (field evaluation). Volume 4: Small wind system performance data
[DE84-006920] 14 p2173 N84-24014
Computerized version of the summary of binary phase diagrams
[DE84-009405] 15 p2299 N84-24800
Small wind systems field evaluation. Volume 3: Utility issues
[DE84-006919] 15 p2365 N84-25190
Plasma behavior in vacuum coating using hot hollow cathode: A literature survey and proposal for experiment
[DE84-007907] 15 p2411 N84-25471
Quality engineering and control
[DE84-011603] 20 p3150 N84-30001
A comprehensive guide to the literature on acoustic emission from composites
[DE84-011064] 21 p3358 N84-31296
Analysis of wind turbines in yaw
[DE84-013620] 21 p3435 N84-31794
Design of a digital telemetry data collection system
[DE84-013916] 22 p3541 N84-32420

ROCKWELL INTERNATIONAL CORP., HOUSTON, TEX.
Mission operations impact of specific shuttle vehicle improvements
[AD-P002152] 14 p2138 N84-23817

ROCKWELL INTERNATIONAL CORP., HUNTSVILLE, ALA.
Space Shuttle AFRSI OMS pod environment test using model 81-0 test fixture in the Ames Research Center 9x7-foot supersonic wind tunnel (OS-314A/B/C)
[NASA-CR-167689] 24 p3860 N84-34464

ROCKWELL INTERNATIONAL CORP., LOS ANGELES, CALIF.
Airplane actuation trade study
[AD-A130709] 01 p0013 N84-10080
Delamination growth in composite structures under inplane compression loading 01 p0036 N84-10224
Airloads research study. Volume 1: Flight test loads acquisition
[NASA-CR-170409] 08 p1103 N84-17173
Airloads research study. Volume 2: Airload coefficients derived from wind tunnel data
[NASA-CR-170410] 08 p1103 N84-17174
SPF/DB primary structure for supersonic aircraft (T-38 horizontal stabilizer)
[NASA-CR-163114] 18 p2813 N84-27860
Performance measurement of low concentration ratio solar array for space application 19 p3047 N84-29333

ROCKWELL INTERNATIONAL CORP., PITTSBURGH, PA.
Transient response dynamic module modifications to include static and kinetic friction effects 22 p3610 N84-32872
Ground test article for deployable space structure systems
[NASA-CR-171158] 24 p3858 N84-34457

ROCKWELL INTERNATIONAL CORP., RICHLAND, WASH.
Numerical modeling of parametric uncertainties in flow through porous media: Development and initial testing of PORSTAT
[DE84-006682] 11 p1654 N84-20798

ROCKWELL INTERNATIONAL CORP., SEAL BEACH, CALIF.
Low concentration ratio solar array structural configuration 08 p1111 N84-17225

ROCKWELL INTERNATIONAL CORP., THOUSAND OAKS, CALIF.
Research on microstructurally developed toughening mechanisms in ceramics
[AD-A130394] 01 p0049 N84-10316
Low-power radiation-hard GaAs RAM
[AD-A132325] 04 p0526 N84-13457
Detection of closed internal fatigue cracks
[DE83-017686] 04 p0549 N84-13620
AlGaAsSb vapor phase epitaxy and laser program
[AD-A133123] 06 p0922 N84-15995
LEC GaAs for integrated circuit applications
[NASA-CR-173267] 07 p1079 N84-17014
Advanced on-board signal processor GaAs memory
[AD-A135465] 08 p1210 N84-17890
Advanced filter technology
[AD-A135446] 08 p1232 N84-18050
InGaPAs by metalorganic chemical vapor deposition
[AD-A135281] 08 p1234 N84-18069
Research on ferroelectric materials for millimeter wave application
[AD-A137128] 10 p1588 N84-20405
Growth of HgCdTe by modified molecular beam epitaxy
[AD-A137243] 10 p1588 N84-20407
Sintering phenomena of non-oxide silicon compounds
[DE84-006599] 12 p1802 N84-21747
Temperature-compensated piezoelectric materials
[AD-A139279] 14 p2242 N84-24460
Growth of crystals from solutions in low gravity (A0139A) 15 p2270 N84-24634
LSI/VLSI (Large Scale Integration/Very Large Scale Integration) ion implanted GaAs (Gallium Arsenide) IC processing
[AD-A139676] 15 p2328 N84-24979
LSI/VLSI (Large Scale Integration/Very Large Scale Integration) ion implanted GaAs (Gallium Arsenide) IC processing. Appendix A: Feasibility analysis of Gallium-Arsenide mask programmable functions and logic arrays for high performance communications systems
[AD-A139677] 15 p2328 N84-24980
LSI/VLSI (Large Scale Integration/Very Large Scale Integration) ion implanted GaAs (Gallium Arsenide) IC processing. Appendix B: Two-dimensional modeling of GaAs MESFET devices for integrated high-speed logic circuits
[AD-A139678] 15 p2328 N84-24981
Low power radiation hard GaAs RAM
[AD-A139930] 15 p2329 N84-24986
Undoped buffer layer development
[AD-A139758] 15 p2413 N84-25484
Study of asymptotic theory of transonic wind tunnel wall interference
[AD-A141431] 19 p2958 N84-28751
Research on the crystal growth and dielectric properties of high permittivity ferroelectric materials
[AD-A142125] 19 p3111 N84-29767
Application of electrochemical and mechanical impedance measurements to corrosion induced failures
[AD-A142468] 20 p3153 N84-30021
Monolithic SAW oscillators on silicon
[AD-A143664] 23 p3741 N84-33716

Growth of CdTe/HgTe superlattice with the LADA (Laser Assisted Deposition and Annealing) techniques
[AD-A143948] 23 p3830 N84-34295
Strengthening and strength uniformity of structral ceramics
[AD-A144302] 24 p3869 N84-34625

ROCKWELL INTERNATIONAL CORP., TULSA, OKLA.
Evaluation of long-duration exposure to the natural space environment on graphite-polyimide and graphite-epoxy mechanical properties (A0175)
15 p2272 N84-24643

ROCKWELL INTERNATIONAL SCIENCE CENTER, THOUSAND OAKS, CALIF.
Deformation and fatigue of aircraft structural alloys
[AD-A133947] 05 p0654 N84-14297
Lunar sample analysis
[NASA-CR-171772] 11 p1758 N84-21476
Lunar sample analysis
[NASA-CR-171771] 11 p1758 N84-21477
Producible alternative to CdTe for epitaxy (PACE-2) of LWIR HgCdTe
[AD-A136255] 12 p1914 N84-22468
Ferroelectric tungsten bronze bulk crystals and epitaxial thin films for electro-optic device applications
[AD-A139693] 13 p2046 N84-23278
Ion implanted GaAs IC. Process technology
[AD-A139348] 14 p2242 N84-24461
Processing and properties of airframe materials
[AD-A140832] 17 p2624 N84-26797
Single crystal growth of ferroelectric tungsten bronze compositions for SAW applications
[AD-A141741] 19 p3110 N84-29763
Processing science to increase the reliability of ceramics
[AD-A143207] 22 p3559 N84-32539
Energy Conversion and Utilization Technologies Program (ECUT) electrocatalysis research
[NASA-CR-173939] 23 p3713 N84-33534

ROCKY MOUNTAIN FOREST AND RANGE EXPERIMENT STATION, FORT COLLINS, COLO.
San Juan Mountains avalanche study: Evaluation and prediction of avalanche hazard, meteorological and avalanche observations
[PB84-202704] 21 p3432 N84-31778

ROHR INDUSTRIES, INC., CHULA VISTA, CALIF.
Re-design and fabrication of titanium multi-wall Thermal Protection System (TPS) test panels
[NASA-CR-172247] 12 p1780 N84-21610

ROLLS-ROYCE LTD., BRISTOL (ENGLAND).
All-electric accessory drive systems: Implications on engine design and performance
03 p0336 N84-12184
Recent research on the efflux of the Rolls-Royce vaporiser fuel injector 15 p2290 N84-24743
V/STOL propulsion system aerodynamics
16 p2436 N84-25630
Development testing: Use of sea level test beds and rigs 16 p2453 N84-25726
The development of military aircraft engine monitoring systems 17 p2585 N84-26570

ROLLS-ROYCE LTD., DERBY (ENGLAND).
Engine reliability through bearing condition monitoring
[PNR-90168] 13 p1933 N84-22570
Acoustic emission: A brief introduction to some of its uses in the aero engine industry
[PNR-90172] 13 p1933 N84-22571
Optical gas temperature measurement in gas turbines
[PNR-90174] 13 p1933 N84-22572
Emissions variability and traversing on production RB211 engines
[PNR-90176] 13 p1933 N84-22573
Engine affordability
[PNR-90178] 13 p1933 N84-22574
The development of advanced specimen testing and analysis techniques applied to fracture mechanics lifing of gas turbine components
[PNR-90179] 13 p1933 N84-22575
Turboprop engine design concepts
[PNR-90181] 13 p1933 N84-22576
The accelerating pace of advancing aero engine technology
[PNR-90191] 13 p1934 N84-22577
Helicopter engine technology with particular reference to the Rolls-Royce Gem engine
[PNR-90193] 13 p1934 N84-22578
Some themes on Rolls-Royce military engine technology. Part 1: Old and new engines for combat aircraft. Part 2: After-burning technology
[PNR-90195] 13 p1934 N84-22579
Fuel efficient engines for large transport
[PNR-90196] 13 p1934 N84-22580
Industrial and marine engine derivatives: A spin-off from aviation
[PNR-90197] 13 p1934 N84-22581
The design and development of a low emissions Transply combustor for the civil Spey engine
[PNR-90198] 13 p1934 N84-22582
The future for titanium and superalloys
[PNR-90175] 13 p1961 N84-22742
The cyclic behaviour of a powder Ni-base superalloy
[PNR-90182] 13 p1961 N84-22743
High temperature adhesives for structural applications: A review
[PNR-90171] 13 p1965 N84-22767
Multi-small hole drilling by EDM
[PNR-90184] 13 p1975 N84-22813
Manufacturing influence of design and its importance to successful automation
[PNR-90189] 13 p1975 N84-22814
A review of advanced manufacturing technology
[PNR-90194] 13 p1975 N84-22815
Infrared temperature measurements in combustion systems
[PNR-90170] 13 p1994 N84-22942
Laser drilling of aero engine components
[PNR-90185] 13 p1996 N84-22956
Cost effectiveness of reliability in the aerospace industry
[PNR-90187] 13 p1999 N84-22971
SIRE: An integrated reliability and cost model for the aerospace industry
[PNR-90192] 13 p1999 N84-22972
Proven design + new technology = reliability + economy
[PNR-90199] 13 p1999 N84-22973
Aircraft noise legislation: An overkill
[PNR-90167] 13 p2010 N84-23037
A high temperature optical displacement measuring system
[PNR-90186] 13 p2044 N84-23261
Corporate DP planning: New approaches and new concerns
[PNR-90180] 13 p2064 N84-23386
Future engine technologies and their effect on maintenance
[PNR-90190] 14 p2110 N84-23651
The design and development of a low emissions transply combustor for the civil Spey engine
15 p2292 N84-24755
Encounters with surge 16 p2489 N84-25966
The use of Jominy end quench to assess the hardenability of higher strength titanium alloys
[PNR-90169] 19 p2991 N84-28957
Low aspect ratio turbine design at Rolls-Royce
19 p3023 N84-29169
The initial mechanical design of hot gas turbine blading using limited information
[PNR-90183] 19 p3032 N84-29234

ROLM CORP., SAN JOSE, CALIF.
A MIL-STD-1750A computer employing the MDAC (McDonnell Douglas Astronautics Corporation) CMOS-SOS chipset
[AD-P003550] 21 p3334 N84-31154

ROME AIR DEVELOPMENT CENTER, GRIFFISS AFB, N.Y.
Two-layer model of line-of-sight refractive multipath propagation
[AD-A130474] 01 p0064 N84-10418
Microwave interaction with thin multiple conductive coatings
[AD-A131091] 01 p0067 N84-10435
On the odd-symmetry of minimum phase-only perturbations
[AD-A130514] 01 p0131 N84-10860
Further considerations in models of rough surface scattering
[AD-A130424] 01 p0146 N84-10962
The evolution and practical applications of failure modes and effects analyses
[AD-A131358] 02 p0272 N84-11778
The use of a beam space representation and nonlinear programming in phase-only nulling
[AD-A131365] 02 p0272 N84-11779
Probability expressions, with applications to fault testing in digital networks
[AD-A131367] 02 p0284 N84-11860
Simultaneous nulling in the sum and difference patterns of a monopulse antenna
[AD-A131865] 03 p0361 N84-12347
Phase-only nulling at symmetric pattern locations
[AD-A133128] 06 p0822 N84-15361
S-band range tracker and Surveillance Lab interface
[AD-A134730] 08 p1145 N84-17451
Correcting feed displacements in a space fed lens antenna
[AD-A137702] 11 p1643 N84-20743
Scattering experiments at the Ipswich electromagnetic measurements facility: Calibration with perfectly conducting spheres
[AD-A138028] 12 p1806 N84-21772
Dislocations in Syton polished InP
[AD-A138041] 12 p1913 N84-22463
Automating the source selection process
[AD-P002835] 13 p2063 N84-23380
Beyond the data base: Technology for information resource management
[AD-A138840] 13 p2067 N84-23402
C3I modeling and simulation
[AD-A139264] 14 p2140 N84-23830
A vector space approach to time-variant energy spectral analysis
[AD-A140196] 16 p2553 N84-26378
A statistical channel model for adaptive HF communications via a severely disturbed ionosphere
[AD-A141237] 18 p2829 N84-27960
Air Force Technical Objective Document (TOD) C(3)I (command, control, communications and intelligence) - fiscal year 1985
[AD-A141276] 18 p2829 N84-27961
Narrowband (LPC-10) vocoder performance under combined effects of random bit errors and jet aircraft cabin noise
[AD-A141333] 18 p2830 N84-27967
An integrating dosimeter for pulsed radiation
[AD-A141288] 18 p2844 N84-28062
Reliability growth testing effectiveness
[AD-A141232] 18 p2851 N84-28102
Grating lobe characteristics of arrays with uniformly illuminated contiguous subarrays
[AD-A142332] 19 p3009 N84-29072
Proceedings of the Antenna Applications Symposium, volume 1
[AD-A142003] 19 p3014 N84-29104
Antenna applications and system engineering
[AD-P003401] 19 p3014 N84-29105
Propagation loss in electrostatically variable SAW delay lines
[AD-A142433] 20 p3178 N84-30183
Nulling in array patterns with orthogonal analytic cancellation beams
[AD-A142719] 20 p3178 N84-30188
Static frequency-temperature characteristics of doubly rotated quartz
[AD-A142456] 20 p3309 N84-31013
A general purpose computer architecture investigation facility
[AD-P003573] 21 p3338 N84-31178
MIL-STD defense system software development
[AD-P003590] 21 p3341 N84-31195
APSE database user scenario
[AD-P003593] 21 p3341 N84-31198
Proceedings of the Antenna Applications Symp., volume 2
[AD-A142754] 21 p3383 N84-31467
Feed error effects on lens performance
[AD-P003513] 21 p3385 N84-31481
HF prediction using adiabatic invariant theory
[AD-A143239] 22 p3576 N84-32652
Broadside radar cross section of the perfectly conducting cube
[AD-A143321] 22 p3577 N84-32656
Preparation of high purity Ga(X)In(1-x) by the VPE-hydride method with a gallium-indium alloy source
[AD-A143275] 22 p3663 N84-33218
Reducing grating lobes due to subarray amplitude tapering
[AD-A143644] 23 p3730 N84-33644
LISP implementation baseline investigation
[AD-A144244] 24 p3946 N84-34983
LOGLISP sequential forms with resolution semantics
[AD-A144413] 24 p3946 N84-34989
Analytic models for radiation induced loss in optical fibers I
[AD-A144630] 24 p3964 N84-35100

ROME AIR DEVELOPMENT CENTER, HANSCOM AFB, MASS.
Nulling with limited degrees of freedom
[AD-A132276] 04 p0521 N84-13424
A simulation analysis of space-based and airborne moving platform radars in look-down clutter
[AD-A133813] 05 p0667 N84-14389
HF over-the-horizon mapping of the Greenland icecap
06 p0868 N84-15654
The effect of a low-altitude nuclear burst on millimeter wave propagation 15 p2323 N84-24947
Influence of oxygen on defect production in electron-irradiated, boron-doped silicon
19 p3045 N84-29320

ROME UNIV. (ITALY).
Linear prediction methods
[FUB-52-1982] 06 p0902 N84-15858
Hallistocardiography: A non-invasive method advancing towards clinical application 11 p1701 N84-21093
Bistability in optical waveguides
14 p2239 N84-24436

A decentralized active control system for a large flexible structure in space 15 p2268 N84-24622
Cosmic ray NM-64 neutron monitor data-9, January-December 1980, Rome, Italy
[IFSI-83-11] 18 p2954 N84-28722
Cosmic ray NM-64 neutron monitor data-10, January-December 1981, Rome, Italy
[IFSI-83-12] 18 p2954 N84-28723
Cosmic ray NM-64 neutron monitor data-9, January-December 1982, Rome, Italy
[IFSI-83-13] 18 p2954 N84-28724
Evaluation of the attenuation length of a scintillator by means of a computer simulation of the light collection efficiency in long scintillation counters
[NOTA-INTERNA-820] 20 p3176 N84-30169
Supersymmetric nonlinear sigma models constrained on a noncompact manifold
[PREPRINT-356] 20 p3283 N84-30843
Staggered fermions and rotation-gauge invariance
[PREPRINT-357] 20 p3297 N84-30937
Some negative results for avoiding lattice fermionic doubling
[PREPRINT-358] 20 p3297 N84-30938
On the stability of boundary-induced flows and modons
[PREPRINT-372] 21 p3403 N84-31591
Canonical commutation relations and Gauss' law in the temporal gauge
[PREPRINT-360] 23 p3819 N84-34216
Local and global integrability of anomalous ward identities
[PREPRINT-364] 23 p3819 N84-34217
A remark on the Korteweg-de Vries equation
[PREPRINT-403] 23 p3819 N84-34218
Weak interactions on the lattice
[TH.3774-CERN] 23 p3819 N84-34219
Search for excited quarks
[PREPRINT-383] 23 p3823 N84-34246
Testing the six quark sheme
[PREPRINT-402] 23 p3823 N84-34247
Search for the radiative decay of a cosmic relic particle with IUE 24 p3982 N84-35231

ROMERO (ANTONIO R.), NORTH HIGHLANDS, CALIF.
Maintenance communications for the 1990's
[AD-A133978] 05 p0666 N84-14383

ROSE-HULMAN INST. OF TECH., TERRE HAUTE, IND.
Conference Grant for 2nd World Congress on Biomaterials
[AD-A143129] 21 p3454 N84-31915
Gallium arsenide field-effect transistor magnetic field studies
[AD-A144058] 23 p3742 N84-33721

ROSS (BERND) ASSOCIATES, SAN DIEGO, CALIF.
Development of an all-metal thick film cost effective metallization system for solar cells
[NASA-CR-173760] 19 p3049 N84-29350

ROUEN UNIV. (FRANCE).
Conformal mapping and almost Lipschitzian curves 22 p3635 N84-33040

ROYAL AIR FORCE, BARRY (ENGLAND).
Uninstalled aero engine testing in operation in the Royal Air Force 16 p2453 N84-25731

ROYAL AIR FORCE, FARNBOROUGH (ENGLAND).
An RAF viewpoint on aircraft structural integrity 12 p1764 N84-21503

ROYAL AIR FORCE INST. OF AVIATION MEDICINE, FARNBOROUGH (ENGLAND).
Adaptation to irregularity of rest and activity 11 p1697 N84-21070
Hypnotics and air operations 11 p1697 N84-21072
Workload of personnel engaged in air defence 11 p1699 N84-21079
Human factors of air operations in the South Atlantic campaign 11 p1699 N84-21080
Visual problems in helicopter operations 16 p2536 N84-26283
Thermal control problems in military helicopters 16 p2537 N84-26286
Mental performance in mild oxygen deficiency
[IAM-409] 17 p2746 N84-27433

ROYAL AIRCRAFT ESTABLISHMENT, BEDFORD (ENGLAND).
Experimental methods to determine control effectiveness in wind tunnels 01 p0013 N84-10087
Some results from a programme of research into the structure of vortex flow fields around missile shapes 03 p0323 N84-12111
Worldwide experience of wind shear during 1981-1982 06 p0776 N84-15087
An introduction to numerical methods suitable for the Euler equations 06 p0835 N84-15431
Recent developments in the measurement of time-dependent pressures 14 p2100 N84-23601
Assessing pilot workload in flight 24 p3849 N84-34408
Using an airborne CO2 CW laser for free stream airspeed and windshear measurements 24 p3850 N84-34417

ROYAL AIRCRAFT ESTABLISHMENT, FARNBOROUGH (ENGLAND).
Fractographic analysis of failures in CFRP 01 p0033 N84-10204
The effect of damage on the tensile and compressive performance of carbon fibre laminates 01 p0034 N84-10213
The significance of defects and damage in composite structures 01 p0035 N84-10219
In-service NDI of composite structures: An assessment of current requirements and capabilities 01 p0035 N84-10220
The initial design of active control systems for a flexible aircraft 02 p0171 N84-11125
Recent advances in parachute technology
[RAE-TM-FS(F)-514] 03 p0319 N84-12089
Theoretical modelling of three-dimensional vortex flows in aerodynamics 03 p0324 N84-12116
Some considerations of the efficiency of sewn lap joints in a nylon webbing
[RAE-TR-83009] 03 p0355 N84-12310
Influence of the airframe on the performance of antennas for avionics 03 p0364 N84-12372
Relationship between the glass transition temperature and the chemical structure of polymers
[RAE-LIB-TRANS-2098] 04 p0505 N84-13312
Extrusion. State of the art and development, review paper
[RAE-TRANS-2102] 04 p0515 N84-13381
Relationships between the glass transition, thermodynamic and mechanical values as possible sources of information correlating material properties with chemical structure
[BR-90008] 05 p0644 N84-14238
A future system design technique based on functional decomposition, supported by quantifiable design aims, and guidelines for minimum maintenance costs 06 p0769 N84-15039
DEF STAN 00-18: A family of compatible digital interface standards 06 p0771 N84-15049
Increased aircraft survivability using direct voice input 06 p0778 N84-15100
Meteor scatter communication in an air-ground environment
[RAE-TM-RAD-NAV-224] 09 p1298 N84-18484
Meteor scatter communication in an air-ground environment
[AD-A135669] 09 p1301 N84-18506
Investigation of pulsed performance of an electrothermal hydrazine thruster, using a special see-through thruster
[AD-A137408] 10 p1451 N84-19473
The flow of an electrorheological suspension in cells of different geometries
[RAE-TRANS-2111] 11 p1646 N84-20760
On the optical assessment of the void content in composite materials
[RAE-TM-MAT/STR-1024] 12 p1789 N84-21664
Disturbances from ventilated tunnel walls in aerofoil testing 14 p2096 N84-23573
Composites for increased wear resistance: Current achievements and future prospects 14 p2154 N84-23904
The design and performance of a combustor with a multiple jet primary zone 15 p2291 N84-24749
Prediction of field strengths near HF transmitters
[AD-B078278] 15 p2319 N84-24917
Corrosion control requirements for UK military aircraft 16 p2434 N84-25614
Experimental pressure distributions on axisymmetric forebodies at Mach 3 and angles of attack up to 17.5 degrees
[AD-A140321] 16 p2442 N84-25668
Data acquisition and processing in sea-level test beds 16 p2453 N84-25730
Structure formation in an electric field and the composition of electrorheological suspensions
[AD-B081902] 16 p2482 N84-25777
The wiper abrasion and rain erosion resistance of transparent materials and coatings for aircraft glazing
[AD-P003227] 17 p2596 N84-26640
Note on an accident to the Boulton Paul 120 VT 951 delta aircraft
[RAE-STRUCT-ACC-248] 17 p2603 N84-26677
Note on the structural failure of Handley page 88 (E6/48) VX.330
[RAE-STRUCT-ACC-245] 17 p2603 N84-26678
Theoretical modelling of three-dimensional vortex flows in aerodynamics
[AD-A134966] 17 p2667 N84-27007
Theory of digital imaging from orbital synthetic aperture radar
[AD-A141152] 18 p2828 N84-27957
Behaviour of a vortex sheet separating from a smooth surface
[RAE-TR-77058] 18 p2836 N84-27998
Practical problems with CO2 laser radar tests
[RAE-TRANS-2113] 22 p3600 N84-32804
Oxygen affinity of hemoglobin, 3 hours after passive increase in altitude from 400 to 1800 metres
[RAE-TRANS-2118] 22 p3630 N84-33004
An evaluation of the Boeing wedge test for the assessment of CFRP surface pretreatment
[AD-A144050] 23 p3711 N84-33526
Powder metallurgy for the economical manufacture of aeronautical components in titanium alloy
[AD-B076255] 23 p3717 N84-33562
The perception of saturation and hue on colour cathode ray tubes
[AD-A143645] 23 p3811 N84-34167
Reference systems for the evaluation of dead-reckoning navigation equipment 24 p3848 N84-34406

ROYAL ARMAMENT RESEARCH AND DEVELOPMENT ESTABLISHMENT, FORT HALSTEAD (ENGLAND).
The basic ply properties of a Kevlar 49/epoxy resin composite system
[AD-A136614] 09 p1286 N84-18397

ROYAL AUSTRALIAN NAVY RESEARCH LAB., EDGECLIFF.
A computer program for the prediction of search radar performance
[AD-A131080] 01 p0067 N84-10436
Afternoon effect studies, part 1
[AD-A130926] 01 p0140 N84-10918
Comparisons of Naval Air Station, NOWRA oceanographic analyses with independently obtained ship and satellite data
[AD-A136462] 10 p1526 N84-19994
Comparisons of sea-surface temperature obtained from ship and satellite data
[AD-A138257] 13 p2018 N84-23087
A model of radar propagation and detection
[AD-A139531] 14 p2141 N84-23834
The calculation of the radar vertical coverage diagram
[AD-A143647] 23 p3731 N84-33645

ROYAL GREENWICH OBSERVATORY, HAILSHAM (ENGLAND).
The current status and future upgrade of the PDS at the Royal Greenwich Observatory 18 p2840 N84-28031
A UV glimpse of T Tauri stars 24 p3975 N84-35174

ROYAL GREENWICH OBSERVATORY, HERSTMONCEUX (ENGLAND).
First, second and third Herstmonceux catalogues of stars for 1950.0
[BULL-189] 08 p1243 N84-18125
Narrow-band photometry of faint red stars, 2
[BULL-191] 08 p1243 N84-18126
Maximum-likelihood estimation of kinematic parameters 09 p1412 N84-19232
Ultraviolet observations of normal galaxies 24 p3970 N84-35136

ROYAL INST. OF TECH., STOCKHOLM (SWEDEN).
Auroral arc classification scheme based on the observed arc-associated electric field pattern
[TRITA-EPP-83-01] 02 p0251 N84-11641
Rapid energization of electrons in a critical velocity discharge experiment
[TRITA-EPP-83-02] 02 p0297 N84-11947
Thermal effects on surface ripple charges for waves on a plasma column
[TRITA-EPP-83-03] 02 p0297 N84-11948
Spontaneous transfer of magnetically stored energy to kinetic energy by electric double layers
[TRITA-EPP-83-05] 02 p0297 N84-11949
Solar system history as recorded in the Saturnian ring structure
[NASA-CR-174477] 02 p0307 N84-12013
The potential of ISEE in different plasma environments 08 p1116 N84-17257
Three-dimensional potential structure associated with Birkeland currents
[TRITA-EPP-83-09] 12 p1912 N84-22455
Space research and cosmic plasma physics
[TRITA-EPP-83-06] 12 p1922 N84-22520
Magnetic field aligned electric fields
[TRITA-EPP-83-07] 12 p1922 N84-22521
Solubility of hydrogen in metals and its effect of pore-formation and embrittlement
[NASA-CR-173399] 14 p2127 N84-23751
Photogrammetric research
[TRITA-FMI-47] 15 p2358 N84-25146
Photogrammetric research at the Royal Institute of Technology, Stockholm, Sweden 15 p2358 N84-25147
Mathematical aspects of digital terrain information. A progress report from ISPRS Working Group III:3 15 p2358 N84-25148

Design of interactive graphics for Digital Elevation Model (DEM) sampling 15 p2358 N84-25149
Correlating aerial photographs to LANDSAT Multispectral Sensor (MSS) data to measure ground control points 15 p2358 N84-25150
General triangulation: Incorporating photogrammetric and other observations 15 p2358 N84-25151
GENTRI: A system for simultaneous adjustment of photogrammetric and other observations 15 p2358 N84-25152
The question of accuracy in the transition from analogue to analytic photogrammetry 15 p2359 N84-25153
Multi-models to increase accuracy 15 p2359 N84-25154
Geometrical testing of X, Y plotters 15 p2359 N84-25155
Space results on the solidification of immiscible alloys 17 p2612 N84-26722
Publications from the Department of Plasma Physics and the Unit of Accelerator Technology: Index and abstracts, 1983
[TRITA-EPP-83-10] 17 p2766 N84-27564
MHD dynamo action in space plasmas
[TRITA-EPP-84-06] 18 p2934 N84-28610
An improved microwave interferometer technique for plasma density measurements
[TRITA-EPP-83-08] 18 p2935 N84-28611
Magnetospheric research and the history of the solar system
[TRITA-EPP-84-04] 18 p2952 N84-28713
Cosmogony as an extrapolation of magnetospheric research
[NASA-CR-173440] 18 p2953 N84-28720

ROYAL LIBRARY OF BELGIUM, BRUSSELS.
The standardization of bibliographic data 11 p1751 N84-21432

ROYAL MILITARY COLL. OF SCIENCE, SHRIVENHAM (ENGLAND).
Alkane soluble transition metal complexes
[AD-A137252] 10 p1458 N84-19525
Investigation of new concepts for designing millimetre-wave antennas
[AD-A137350] 10 p1479 N84-19663
Some aspects of guidance loop design for SAM systems 21 p3350 N84-31251

ROYAL NAVAL PERSONNEL RESEARCH COMMITTEE, LONDON (ENGLAND).
Motion illness: A bibliography
[AD-A139342] 15 p2379 N84-25276

ROYAL NETHERLANDS AIR FORCE, VOLKEL.
Increasing birdstrike rates and improved birdstrike analysis of the Royal Netherlands Air Force
[AD-P003216] 17 p2594 N84-26629

ROYAL NETHERLANDS AIRCRAFT FACTORIES FOKKER, SCHIPHOL-OOST.
Transonic flutter clearance for a supercritical transport aircraft in the preliminary stage 02 p0170 N84-11121
Spacelab scientific airlock 09 p1295 N84-18460
A Variable Conductance Heat Pipe (VCHP) radiator system for communications payloads 10 p1440 N84-19406
Thermal control design of ISPM 10 p1441 N84-19408
Thermal design and performance of the IRAS spacecraft system 10 p1441 N84-19415
A thermal analyis approach applied in early stages of a program 10 p1442 N84-19421

ROYAL NETHERLANDS METEOROLOGICAL INST., DE BILT.
On the growth of gravity-capillary waves by wind
[KNMI-WR-83-10] 03 p0412 N84-12696
Hundred years later: September 1883 - September 1983; annotated bibliography of the first Dutch North Pole expedition 1882-1883
[KNMI-83-02] 05 p0696 N84-14571
Bibliography of the climate of the Netherlands and atmospheric conditions in the Netherlands
[KNMI-164] 05 p0708 N84-14635
Organized microscale structure of the windstorm of 12 May 1983 in Utrecht and vicinity
[KNMI-TR-36] 05 p0709 N84-14647
Dispersion experiments with sulfur hexafluoride from the 213m high meteorological mast at Cabauw in the Netherlands 08 p1183 N84-17706
Observations of surface water temperature and salinity in the Eastern part of the East Scheldt from 1921 until present
[KNMI-TR-40(FM)] 10 p1526 N84-19999
Review of publications on the Dutch wind climate
[KNMI-TR-41(FM)] 10 p1539 N84-20081
The reading of plots in weather and water wave charts
[KNMI-152-BV-10] 10 p1540 N84-20092
A model to calculate hourly temperatures from three regular readings, part 3
[KNMI-165-3] 10 p1540 N84-20093
Observations of surface water temperature and salinity in the East Scheldt during the period 1894-1982
[KNMI-WR-83-12(FM)] 10 p1540 N84-20094
Weather effects on electricity peak loads in the Southwest of the Netherlands and verification of the estimation of these maxima, 1 January 1972 - 1 January 1983
[KNMI-WR-83-14(DM)] 10 p1540 N84-20095
The storm of 12 May 1983, Ascension day
[KNMI-TR-44(CWD)] 10 p1541 N84-20096
The use of trajectories in short range weather forecasting
[KNMI-TR-35] 12 p1861 N84-22126
Investigation of the characteristics of the ECMWF model using the P27 system
[KNMI-TR-39] 12 p1861 N84-22127
A compound Weibull model for the description of surface wind velocity distributions
[KNMI-WR-83-13] 12 p1862 N84-22129
Distortion of the wind field by the Cabauw meteorological tower
[KNMI-WR-83-15] 12 p1862 N84-22130
Forecasting the windstorm of 12 May 1983 (Acension Day)
[KNMI-TR-43] 13 p2017 N84-23079
Wind climate of the Netherlands
[ISBN-90-12-04466-9] 14 p2178 N84-24045
The evaluation of rain gages, illustrated by the Thies rain gage and the electrical rain gage of the Royal Netherlands Meteorological Institute (KNMI)
[KNMI-WR-83-16] 14 p2180 N84-24057
Internal gravitation waves in a stably stratified atmosphere
[KBMI-WR-84-1] 15 p2368 N84-25206
The specific humidity profile of the convective atmospheric boundary layer
[KNMI-WR-84-2] 15 p2368 N84-25207
Meteorologic report based on the work of Oosterscheldewerken
[KNMI-TR-45] 16 p2529 N84-26236
A scheme for mass and wind analysis on a limited area using multivariate three-dimensional optimum interpolation: Scientific documentation and first evaluation
[KNMI-TR-46] 17 p2734 N84-27382
Weather satellites
[KNMI-152-BV-3] 18 p2802 N84-27783
On mixed-layer models for the atmospheric boundary layer, appendix G 18 p2884 N84-28302
Climatology of heating-degree days in the Netherlands during the years 1961-1980
[KNMI-TR-47] 18 p2891 N84-28351

ROYAL NORWEGIAN COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH, KJELLER.
Multifrequency scattering for target characterization and identification: A summary of recent results 06 p0870 N84-15663
The Norwegian Seismic Array (NORSAR). Phase 3
[AD-A134038] 06 p0878 N84-15713
Ocean waves and turbulence as observed with an adaptive coherent multifrequency radar 17 p2714 N84-27279

ROYAL OBSERVATORY, EDINBURGH (SCOTLAND).
Drift analysis: A forgotten technique 09 p1411 N84-19226
Royal Observatory, Edinburgh: Research and Facilities 1983
[ISBN-0-902553-27-5] 10 p1594 N84-20446
Cosmology 10 p1594 N84-20447
Quasars and galaxies with active nuclei 10 p1594 N84-20448
Normal galaxies 10 p1594 N84-20449
The life cycle of stars 10 p1594 N84-20450
Work at high altitude: A clinical and physiological study at the United Kingdom Infrared Telescope, Mauna Kea, Hawaii
[REPT-11] 12 p1864 N84-22147
Catalogue of stellar ultraviolet fluxes. A compilation of absolute stellar fluxes measured by the Sky Survey Telescope (S2/68) aboard the ESRO satellite TD-1 15 p2423 N84-25558
Proceedings of the Workshop on Laboratory and Observational Infrared Spectra of Interstellar Dust
[ISBN-0-902553-29-1] 16 p2569 N84-26485
Structure in the interstellar polarization curve and the nature of the polarizing grains 16 p2572 N84-26507
Why use a microdensitometer other than a PDS? 18 p2841 N84-28038
Photographic surveys of the southern sky 18 p2843 N84-28052
Laboratory and observational infrared spectra of interstellar dust
[ROE-OR-12] 18 p2947 N84-28683
Structure in the interstellar polarization curve and the nature of the polarizing grains 18 p2950 N84-28706
Study of hot spot galaxies 24 p3971 N84-35143
The hydrogen-deficient irregular variable star V348 SGR 24 p3978 N84-35200

ROYAL SIGNALS AND RADAR ESTABLISHMENT, CHRISTCHURCH (ENGLAND).
An algorithm for the estimation of limiting recognition range of image intensifier systems
[SRDE-7100] 15 p2389 N84-25333

ROYAL SIGNALS AND RADAR ESTABLISHMENT, MALVERN (ENGLAND).
Noise reduction and segmentation of IR images using CO-median filters
[RSRE-MEMO-3582] 03 p0366 N84-12378
Dielectric loss measurement at millimetre wave frequencies using an untuned cavity
[RSRE-MEMO-3597] 03 p0366 N84-12379
An introduction to the AXIS test box
[RSRE-MEMO-3583] 03 p0418 N84-12729
The AXIS test box software report
[RSRE-MEMO-3585] 03 p0420 N84-12741
Sensor head performance, responsivity and NETD using pyroelectric linear arrays
[RSRE-MEMO-3608] 09 p1317 N84-18605
Zooming and smoothing images using convolution procedures
[AD-A135659] 09 p1372 N84-18957
The use of the MASCOT philosophy for the construction of Ada programs
[AD-A137417] 10 p1563 N84-20239
Polarimetric principles and techniques
[AD-A139252] 12 p1805 N84-21766
Real time speech recognition on a distributed digital processing array
[AD-A139097] 14 p2139 N84-23826
Non-linear Fabry-Perot transmission in A CdHgTe etalon 14 p2239 N84-24437
RSRE speech data base recordings (1983). Part 1: Specification of vocabulary and recording procedure
[AD-A139361] 15 p2318 N84-24916
Considerations pertinent to propagation prediction methods applied to airborne microwave equipment 15 p2326 N84-24970
Implementation of the sign-logarithm arithmetic FFT
[AD-A139355] 15 p2396 N84-25373
The multistate reflectometer
[AD-A139318] 15 p2407 N84-25448
A reassessment of the measurement uncertainty of the XT-90 twin T dual admittance bridge
[AD-A139253] 16 p2483 N84-25923
Intermediate access switch: A multiprocessor application
[AD-A140363] 16 p2485 N84-25935
High speed crystal growth by Q-switched laser melting 18 p2938 N84-28637
A compact frequency-stable pulsed CO-2 laser
[AD-A143216] 22 p3600 N84-32806
Wind measurement with coherent laser radar at 10 microns 24 p3907 N84-34750

RPK CORP., ATHENS, GA.
A new method for generating and maintaining rigid formats in NASTRAN 06 p0860 N84-15605
The design and usage of the new data management features in NASTRAN 22 p3609 N84-32866
COSMIC/NASTRAN on the Cray computer systems 22 p3609 N84-32868

RUETGERSWERKE A.G., FRANKFURT AM MAIN (WEST GERMANY).
Electrographite electrodes from coal tar pitch super needle coke for electric steel manufacturing
[BMFT-FB-T-83-067] 02 p0197 N84-11281

RUHR UNIV., BOCHUM (WEST GERMANY).
Calculation of unsteady flow in tubes of combustion engines with special regard to multiple branching
[REPT-82.8] 03 p0370 N84-12410
Use of the one-dimensional theory of the filament of flow for the interpretation and synthesis of mufflers in exhaust pipes of internal combustion engines
[REPT-81.4] 03 p0383 N84-12494
Unified operator description, nonlinear buckling and post-buckling analysis of thin elastic shells
[RUB-IFM-MITT-34] 06 p0857 N84-15582
The ISPM dust experiment 09 p1262 N84-18239
Variational principles in thermoplasticity. Part 1: Heat transfer and plasticity
[RUB-IFM-MITT-33-PT-1] 10 p1490 N84-19740
An extremal-variational principle for unsteady thermal conduction applied to thermoelastic problems using finite elements
[MITT-35] 12 p1814 N84-21826
Methodical layout of mechanical systems with regard to optimum vibrational behavior
[REPT-36] 12 p1825 N84-21898
Some remarks on the definition of material isotropy 17 p2761 N84-27539

RUTGERS - THE STATE UNIV., NEW BRUNSWICK, N. J.
Ionic conductivity in lithium hexaoxometallate solid solutions
[AD-A131842] 03 p0346 N84-12250
A study of critical factors affecting the development of performance measures in evaluating bibliographic information retrieval systems 03 p0460 N84-13030
A knowledge based approach to VLSI CAD
[AD-A133692] 05 p0675 N84-14434
Crazing and fatigue behaviour of one and two phase polymers 06 p0811 N84-15282
Services for the analysis and evaluation of information
[PB84-104504] 08 p1241 N84-18113
Mechanical and physical properties of poly(vinylidene fluoride) at high pressures and temperatures
[AD-A137842] 11 p1637 N84-20705
Kinematic and dynamic analysis of high-speed intermittent-motion mechanisms
[AD-A137903] 11 p1665 N84-20862
High pressure melting and crystallization of Nylon-11
[AD-A138858] 13 p1964 N84-22760
Theoretical investigation of three-dimensional shock wave-turbulent boundary layer interactions, part 2
[AD-A138722] 13 p1990 N84-22916
Study of particulate formation and radiant heat loss in direct injection-type diesel engines
[PB84-160100] 15 p2344 N84-25073
Eye movements and visual information processing
[AD-A140438] 16 p2538 N84-26296
Numerical simulation of shock/turbulent boundary layer interactions over 2-D compression corners
17 p2666 N84-27000
High pressure electron resonance studies of electronic, magnetic, and structural phase transitions
[DE84-008814] 18 p2941 N84-28653
Analysis and regulation of nonlinear and generalized linear systems
[AD-A144671] 24 p3952 N84-35029

RUTGERS - THE STATE UNIV., PISCATAWAY, N. J.
A numerical method in solving a coupled thermoelasticity equation and some results
[AD-A130183] 01 p0129 N84-10843
The effect of plasticizer on the polarizer of Poly(vinylidene fluoride) films
[AD-A140770] 17 p2626 N84-26806
Piezoelectric properties and ferroelectric hysteresis effects in unaxially stretched Nylon-11 films
[AD-A140683] 17 p2768 N84-27575
X-ray topographic methods and application to analysis of electronic materials 18 p2940 N84-28645
Pressure-dependence of glass transition temperature of elastomeric glasses
[AD-A141485] 19 p2998 N84-28999
The nature of the critical and strategic materials problem 23 p3702 N84-33466

RUTGERS UNIV., NEW BRUNSWICK, N. J.
New materials for organic photovoltaic cells
[DE83-016845] 03 p0404 N84-12645
Ionic conductivity of Li7BiO6
[AD-A135386] 08 p1124 N84-17307
Ionic conductivity in lithium hexaoxometallate solid solutions 11 p1744 N84-21379
Effective elastic moduli of an isotropic, two-phase composite 15 p2309 N84-24852
Dynamic instability of suddenly heated, thick, composite shells 15 p2309 N84-24853
Metal-silicate relationships in differentiated meteorites
[NASA-CR-173929] 23 p3843 N84-34384

RUTGERS UNIV., NEWARK, N. J.
Optimization of high speed linkages
15 p2312 N84-24872

RUTHERFORD HIGH ENERGY LAB., CHILTON (ENGLAND).
Design considerations of a proposed UK VHF radar
17 p2692 N84-27142

S

SAAB-SCANIA, LINKOPING (SWEDEN).
Investigations concerning improvements of the SAAB 37 windshield birdstrike resistance
[AD-P003217] 17 p2595 N84-26630

SAAB-SPACE A.B., LINKOEPING (SWEDEN).
Viking satellite thermal control analytical verification and test 10 p1441 N84-19410
Current requirements on specifications for corrosion prevention 16 p2435 N84-25618

SAARLAND UNIV., SAARBRUCKEN (WEST GERMANY).
CTX: A system for computer-aided indexing
[BMFT-FB-ID-83-006] 02 p0303 N84-11986

SACLANT ASW RESEARCH CENTER, LA SPEZIA (ITALY).
A system for receiving and analyzing meteorological satellite data at small meteorological/oceanographic centres or aboard ship
[AD-A137215] 10 p1540 N84-20088
A directory of European, Middle Eastern, and North African coastal ground control points for mapping satellite images
[AD-A142019] 20 p3228 N84-30512
Wind-generated noise in shallow water
[AD-A141981] 20 p3290 N84-30890

SACRAMENTO PEAK OBSERVATORY, SUNSPOT, N. MEX.
Coronal transients in FE XIV 5303A: First two-dimensional photoelectric ground-based observations 03 p0466 N84-13072
The Sacramento Peak fast microphotometer
18 p2841 N84-28040

SAFT AMERICA, INC., COCKEYSVILLE, MD.
Evaluation of mica substitutes for use in thermal batteries
[AD-A140650] 17 p2723 N84-27330

SAINT LOUIS UNIV., MO.
Experiments on factors that influence muscular function in man
[AD-A133928] 06 p0888 N84-15771
Contributions to the theory of quantum 1/f noise
08 p1236 N84-18082
Cardiovascular and respiratory responses to muscular activity during immersion in water at different temperatures
[AD-A138894] 14 p2185 N84-24094
A kinetic energy study of the meso beta-scale storm environment during AVE-SESAME 5 (20-21 May 1979)
[NASA-CR-3820] 23 p3800 N84-34090
Statistical analysis and use of the VAS radiance data
24 p3929 N84-34870
Statistical structure of convective periods derived from satellite ground based data 24 p3931 N84-34882

SALFORD UNIV. (ENGLAND).
Simulation algorithms for parallel processes
[CSC-1023/00-FIN] 18 p2921 N84-28527

SALK INSTITUTE FOR BIOLOGICAL STUDIES, SAN DIEGO, CALIF.
Nonenzymatic formation of energy-rich lactoyl and glyceroyl thioesters from glyceraldehyde and a thiol
[NASA-CR-173833] 17 p2617 N84-26748

SALZBURG UNIV. (AUSTRIA)
On some extensions of a theorem of Hardy and Littlewood 04 p0575 N84-13784

SAN ANTONIO AIR LOGISTICS CENTER, KELLY AFB., TEX.
Fuel system O-ring leaks on post P.D.M. (Programmed Depot Maintenance) C-5A aircraft
[AD-A137885] 11 p1606 N84-20519

SAN DIEGO STATE UNIV., CALIF.
Terrain effects in resistivity and magnetotelluric surveys
[DE83-014084] 02 p0240 N84-11575
Signal detection for same-shape families of non-homogeneous Poisson processes
[AD-A135032] 08 p1217 N84-17942
Mechanism of shoot gravitropism
09 p1352 N84-18836

SAN FERNANDO LABS., PACOIMA, CALIF.
Fabrication and coating of selected diesel engine components for combustion durability testing
[DE84-002188] 09 p1326 N84-18662

SAN FERNANDO OBSERVATORY, EL SEGUNDO, CALIF.
Ground-based measurements of solar irradiance variations 17 p2778 N84-27639
Two-dimensional photometry of active regions
17 p2778 N84-27640

SAN JACINTO COLL., PASADENA, TEX.
Wind-powered heat pump experiment
[DE84-003141] 07 p1026 N84-16647

SAN JOSE STATE UNIV., CALIF.
Fluoroether modified epoxy composites
[NASA-CASE-ARC-11418-1] 02 p0187 N84-11213
Process for preparing perfluorotriazine elastomers and precursors thereof
[NASA-CASE-ARC-11402-1] 13 p1961 N84-22744
Application of surface acoustic wave devices to radio telemetry
[NASA-CR-173597] 16 p2457 N84-25756
Characterization and degradation studies on synthetic polymers for aerospace application
[NASA-CR-166597] 21 p3355 N84-31284

SANDERS AND THOMAS, INC., POTTSTOWN, PA.
Preliminary operating assessment advanced Heat Recovery Incinerator (HRI). Site One: O'Connor Combustor Corporation
[AD-A131254] 01 p0103 N84-10667

SANDERS ASSOCIATES, INC., NASHUA, N. H.
XeF pumped Tm:YLF laser scaling
[AD-A140004] 15 p2339 N84-25041
Near-term Brayton module status
18 p2874 N84-28246
A wide band 44 GHz printed circuit conformal array
[AD-P003404] 19 p3014 N84-29108

SANDIA LABS., ALBUQUERQUE, N. MEX.
Effects of solvent and supporting electrolyte on the electrochemical reduction of sulfur dioxide
[DE83-013436] 01 p0036 N84-10241
Fracture-toughness testing of ductile cast irons
[DE83-010824] 01 p0046 N84-10294
Sol-gel transition in simple silicates, 2
[DE83-013975] 01 p0051 N84-10329
RAVEN, a 5-jK, 1.5-MV repetitive pulser
[DE83-013643] 01 p0071 N84-10465
Zinc/bromine prototype-batteries evaluation
[DE83-011861] 01 p0072 N84-10473
A 2-MJ staged explosive generator
[DE83-013677] 01 p0072 N84-10474
A survey of the state-of-the-art in aging of electronics with application to nuclear-power-plant instrumentation
[DE83-012696] 01 p0073 N84-10478
Correlation of electrical conductivity and thermal decomposition of phenolic materials
[DE83-009186] 01 p0074 N84-10487
Insulation-resistance measurements of coated and uncoated printed wiring boards
[DE83-015457] 01 p0074 N84-10489
Growth and decay of one-dimensional shock waves in chemically reacting multiphase mixtures
[DE83-011134] 01 p0080 N84-10519
Gas-transfer analysis. Section B: Real gas results via the vanderWaals equation of state and virial extension of its limiting Abel-Noble form
[DE83-013281] 01 p0081 N84-10527
Numerical method for computing flow through partially saturated porous media
[DE83-007910] 01 p0081 N84-10529
Transient-temperatures-measurement errors
[DE83-006300] 01 p0085 N84-10549
Ultraviolet-laser triggering of a 5-megavolt multistage gas switch
[DE83-013641] 01 p0087 N84-10570
E-beam pulsewidth scaling for a large KrF laser
[DE83-013632] 01 p0087 N84-10571
Velocity interferometry for time-resolved high-velocity measurements
[DE83-013968] 01 p0088 N84-10577
Helium/solid powder o-ring leakage correlation experiments
[DE83-013773] 01 p0090 N84-10588
Microstructural effects on wave propagation in solids
[DE83-012609] 01 p0096 N84-10626
CAD/CAM: Influencing the skilled trades
[DE83-015188] 01 p0125 N84-10812
Computation of Bessel functions of complex argument
[DE83-013528] 01 p0134 N84-10881
Edge-sealed PLZT shutters for operation in high-humidity/temperature environments
[DE83-012627] 01 p0148 N84-10971
Generation of ultrafast optical fiducials for shock-wave experiments
[DE83-013765] 01 p0148 N84-10974
Charge characteristics of ion-implanted and annealed nitride/oxide/Si structures
[DE83-012625] 01 p0153 N84-11009
Axial-channeling studies of strained layer superlattices
[DE83-013309] 01 p0154 N84-11010
Monte Carlo simulation of shock-induced lattice damage
[DE83-015189] 01 p0154 N84-11016
Pressure studies of organic superconductors
[DE83-015344] 01 p0155 N84-11021
Microstructures of pulse-melted Fe-Ti-C alloys
[DE83-015213] 01 p0155 N84-11024
Particle-tear energy contribution to the toughness of rubber-modified epoxies
[DE83-010396] 02 p0188 N84-11223
An evaluation of the effect of cell voltage and termination current on barrier anodic Al2O3 film formation
[DE83-013961] 02 p0195 N84-11266
Specific surface measurements of shock-modified powders
[DE83-016230] 02 p0196 N84-11275
Control of precious-metal plating baths using electrogravimetric analysis
[DE83-016772] 02 p0196 N84-11276
Analysis of soldering-induced cracking of BaTiO3 ceramic capacitors
[DE83-013980] 02 p0200 N84-11304
Polyimides for use in integrated circuits
[DE83-016769] 02 p0201 N84-11310
Origin of pyroelectricity in polyvinilydene fluoride
[DE83-015227] 02 p0201 N84-11311

Dielectric breakdown of MXB-71 phenolic and Sylgard 184/GMB silicone at high temperature
[DE83-016768] 02 p0201 N84-11312
Velocity Interferometer System for Any Reflector (VISAR): Studies of wave growth in granular explosives
[DE83-013772] 02 p0204 N84-11330
Switching-speed improvements in PLZT shutters
[DE83-013096] 02 p0214 N84-11403
Effect of environment and materials properties on the friction and wear behavior of precious metal electrical contact alloy couples
[DE83-010403] 02 p0215 N84-11409
Simple ideal gas model of the Pavlovskii high-explosive opening switch
[DE83-016630] 02 p0215 N84-11411
Global wiring strategy for IC and PC routing
[DE83-009934] 02 p0215 N84-11412
SAGUARO: A finite-element computer program for partially saturated porous flow problems
[DE83-015603] 02 p0219 N84-11438
Refractive index and equation of state of a shock-compressed aqueous solution of zinc chloride
[DE83-016302] 02 p0220 N84-11443
Optical surveillance for international safeguards: Present and future
[DE83-014278] 02 p0223 N84-11465
Carbon piezoresistive stress gauge
[DE83-016505] 02 p0224 N84-11470
Design, performance and operation of the laser interferometric dilatometer
[DE83-014359] 02 p0226 N84-11483
Particle-velocity measurements of laser-induced shock waves using ORVIS
[DE83-016503] 02 p0228 N84-11494
Status of the vertical-axis wind-trubine program, 1983
[DE83-013096] 02 p0229 N84-11504
Characterization of conservatism in mechanical shock testing of structures
[DE83-013524] 02 p0232 N84-11521
Dynamic heterogeneous response of aluminum and copper to stress waves
[DE83-015229] 02 p0232 N84-11522
Numerical modeling of dynamic material response
[DE83-016233] 02 p0232 N84-11524
Membranes and separators for flowing-electrolyte batteries: A review
[DE83-016246] 02 p0242 N84-11586
Tenth Photovoltaic Concentrator Project Integration Meeting
[DE83-012338] 02 p0242 N84-11587
An approach to modeling of human performance for purposes of probabilistic risk assessment
[DE83-009292] 02 p0269 N84-11764
Use of desktop computers for data acquisition
[DE83-014277] 02 p0270 N84-11768
Radiation testing of the CMOS 8085 microprocessor family
[DE83-014604] 02 p0271 N84-11771
Computation of Bessel functions of complex argument and large order
[DE83-014463] 02 p0282 N84-11851
Proceedings of the Workshop on Ion Mixing and Surface Layer Alloying
[AD-A131469] 02 p0289 N84-11895
Operational factors in the design of the PBFA 2 accelerator
[DE83-013076] 02 p0290 N84-11900
The COMET: A 6-MV, 400-kJ, magnetically-switched pulse-power module
[DE83-013077] 02 p0290 N84-11901
Transient electron transport in gases
[DE83-009188] 02 p0291 N84-11906
Thick deposits and overlays for fusion-reactor applications
[DE83-014626] 02 p0293 N84-11919
Optical analysis of a gimballed mirror system
[DE83-0165765] 02 p0295 N84-11934
Effects of pressure on deep electronic levels in semiconductors
[DE83-016247] 02 p0299 N84-11965
Tubular battery and transistorized controller outdoor laboratory test program
[DE83-016231] 02 p0304 N84-11995
Evaluation of the kinematic variable (back stress) response of metals
[DE83-008381] 03 p0353 N84-12293
Accelerated compatibility testing using corrosion fatigue techniques
[DE83-015104] 03 p0353 N84-12296
Strain rate effects on ductile/brittle transitions in steels
[DE83-016906] 03 p0355 N84-12308
In-situ permeation tests of elastomeric O-ring seals
[DE83-015622] 03 p0356 N84-12318
Chemical properties of metallic glasses
[DE83-017353] 03 p0357 N84-12322
High-average-power rep rate systems
[DE83-013769] 03 p0366 N84-12385
Power-loading effects in gas-discharge models
[DE83-016504] 03 p0368 N84-12393
Stress production and relief in the gold/silicon eutectic die-attach process
[DE83-015230] 03 p0369 N84-12400
The performance of the perfluorocarbon liquid/plastic-film capacitor technology in pulse-power service. A current status report
[DE83-014606] 03 p0369 N84-12402
Numerical simulation of plastic fluids
[DE83-007911] 03 p0372 N84-12424
Use of superposition in calculating cooling requirements for circuit cards containing arrays of electronic components
[DE83-016091] 03 p0373 N84-12428
Experimental mixed-convection heat transfer from a large, vertical surface in a horizontal flow
[DE83-016419] 03 p0373 N84-12429
Automated data reduction for optical interferometric data
[DE83-012075] 03 p0377 N84-12457
Transient temperature response of strain gages, revision 1
[DE83-017514] 03 p0378 N84-12459
Hermetically sealed microminiature multisocket connector
[DE83-017484] 03 p0384 N84-12503
A comparison of finite-element predictions and experimental data for the forced response of the DOE 100 kW vertical-axis wind turbine
[DE83-012624] 03 p0389 N84-12537
Single specimen J-integral testing
[DE83-016069] 03 p0390 N84-12543
Mechanics of fracture under high-rate stress loading
[DE83-013770] 03 p0390 N84-12544
PLT: A multipurpose plotting package
[DE83-018261] 03 p0419 N84-12735
DRAMIN: Transferring data from the Applicon graphic system to A DRAM input file user guide
[DE83-018235] 03 p0421 N84-12753
Double porosity model for acoustic wave propagation in fractured-porous rock
[DE83-017823] 03 p0431 N84-12823
Using inner-shell X-rays as an ion-beam diagnostic
[DE83-017784] 03 p0436 N84-12857
Beam-target interaction of intense ion beams: Theory and experiment
[DE83-018264] 03 p0436 N84-12858
Magnetic trapping of intense ion beams
[DE83-017356] 03 p0437 N84-12866
Development of a portable specular reflectometer for monitoring solar-mirror materials
[DE83-016065] 03 p0442 N84-12901
Instabilities in cylindrical plasma liners imploded by high magnetic fields
[DE83-013640] 03 p0445 N84-12921
Ion stopping in heated targets
[DE83-017800] 03 p0447 N84-12941
Applied-B ion diode experiments on PBFA 1
[DE83-017792] 03 p0447 N84-12942
Diagnosing the ion beam on the applied-B diode
[DE83-017822] 03 p0447 N84-12943
Light-ion-beam fusion
[DE83-018263] 03 p0448 N84-12944
Ampfion hybrid diodes on hydramite and PBFA-1
[DE83-017824] 03 p0448 N84-12945
Chemical erosion of first-wall materials by atomic hydrogen at high temperatures
[DE83-017161] 03 p0450 N84-12962
Radiation-induced transient acoustic loss in quartz crystals
[DE83-012626] 03 p0453 N84-12980
Hole trapping, recombination, and space charge in irradiated Sandia oxides
[DE83-015212] 03 p0454 N84-12986
Proceedings of the Workshop on Ion Mixing and Surface Layer Alloying
[DE83-015354] 03 p0455 N84-12994
Physics of ion implantation: Ion-cascade processes and physical state of the implanted solid
[DE83-017152] 03 p0455 N84-12998
Quantitative determination of the intenstities of known components in spectra obtained from surface analytical techniques
[DE84-000926] 04 p0493 N84-13239
Fluidized-bed and salt-bath heat treating (AISI 4130 and 4340 alloy steels)
[DE84-000979] 04 p0502 N84-13290
Measurement of thermal conductivity from high-temperature pulse diffusivity and calorimetry measurements
[DE84-000353] 04 p0503 N84-13297
Finite-element analysis of an epoxy-curing process
[DE84-000452] 04 p0507 N84-13323
Automated thermal conductivity probe and applications to powders
[DE84-000451] 04 p0508 N84-13328
Low-inductance, dual-feed diode development
[DE84-000117] 04 p0527 N84-13465
Superregenerative amplifier in linear mode as a radar range gate-derivations
[DE84-000978] 04 p0528 N84-13474
ESD evaluation of radiation-hardened, high-reliability CMOS and MNOS ICs
[DE84-000136] 04 p0529 N84-13481
Use of numerical heat-transfer techniques to analyze thermal-comparator conductivity measurements
[DE84-000945] 04 p0535 N84-13515
Construction and verification of a finite-element method for nonisothermal flows in porous media
[DE83-017158] 04 p0536 N84-13522
Particle velocity measurements in laser irradiated foils using ORVIS
[DE83-016629] 04 p0541 N84-13563
Thermal modeling of laser welding with a quasi-1-dimensional approach
[DE84-001292] 04 p0544 N84-13585
Sizing defects using annular-array techniques with an automated ultrasonic data-acquisition system
[DE84-001644] 04 p0546 N84-13597
Alternative shock characterizations for consistent shock-test specification
[DE84-000482] 04 p0549 N84-13619
Structural analysis of a glass/space frame parabolic-trough solar collector for various operating positions
[DE84-001137] 04 p0550 N84-13622
Seismic investigation of the Multi-Well Experiment site
[DE84-000943] 04 p0555 N84-13655
Photovoltaic concentrators: Recent developments
[DE84-001641] 04 p0559 N84-13687
Stress-wave experiments on selected crustal rocks and minerals
[DE84-001613] 04 p0563 N84-13714
Computerized art plotting system. Volume 1: Horizontal bar charts (second edition)
[DE83-018113] 04 p0582 N84-13839
User's guide to Sandia TEX
[DE83-016763] 04 p0582 N84-13840
Portable FORTRAN contour-plotting subprogram
[DE83-017422] 04 p0582 N84-13846
Direct measurement of the energy spectrum of an intense proton beam
[DE84-000457] 04 p0597 N84-13939
Thomson-scattering measurements of electron temperature and density in a plasma channel created by a relativistic electron beam
[DE84-000356] 04 p0597 N84-13940
Tomographic technique in relativistic electron beam experiments
[DE84-000357] 04 p0598 N84-13949
Proto-I axial-focusing experiments
[DE84-000458] 04 p0599 N84-13951
IBEX: Annular beam propagation experiment
[DE84-000456] 04 p0599 N84-13954
Origin of electron-bombardment enhanced reactivity of graphite with hydrogen
[DE83-017561] 04 p0600 N84-13960
Grad-B drift transport of high current electron beams
[DE84-000115] 04 p0602 N84-13977
Analysis of mechanisms for anode plasma formation in ion diodes
[DE83-017793] 04 p0608 N84-14010
Overview of ion-diode research
[DE83-017791] 04 p0608 N84-14012
Hybrid ion diode theory and computations
[DE84-000102] 04 p0610 N84-14029
Steady-state hydrogen transport in solids exposed to fusion-reactor plasmas. Part 3: Applications of theory
[DE84-001646] 04 p0611 N84-14033
Understanding localized behavior in the Auger spectra of covalent systems such as graphite
[AD-A133924] 05 p0647 N84-14255
Chemistry of shock compression: A bibliography
[DE84-002192] 05 p0651 N84-14279
Chemical modification of chemisorptive and catalytic properties of nickel
[DE84-002046] 05 p0655 N84-14308
Measurement of precipitate nucleation times in molten metals by pulsed surface melting
[DE84-002383] 05 p0656 N84-14311
Approximate linear stability analysis of a model of adiabatic shear-band formation
[DE84-001918] 05 p0656 N84-14316
Transmission lines for pulsed power applications
[DE84-002754] 05 p0676 N84-14446
Tape joint design guidelines
[DE84-002052] 05 p0688 N84-14522

Theoretical treatment of the current neutralization of high intensity light ion beams in argon
[DE84-000118] 05 p0745 N84-14893
Ion-implanted strained-layer superlattice device
[DE84-000101] 05 p0754 N84-14949
Ion channeling analysis of GaAs/sub x/P/sub 1-x/GaP strained-layer superlattices
[DE84-002536] 05 p0755 N84-14952
Energy release and transformation of shock-modified zirconia upon annealing to 1550 deg C
[DE83-017801] 05 p0755 N84-14954
X-ray diffraction line-broadening studies on shock-loaded TiO-2 and Al2O-3
[DE83-016161] 05 p0755 N84-14955
High-speed, low-altitude payload delivery using a single large ribbon parachute
[DE84-002731] 06 p0783 N84-15128
New, high performance rotating parachute
[DE84-002382] 06 p0783 N84-15129
Pit initiation resistance of ferritic stainless steels in chloride environments from 800 to 2600C
[DE84-000355] 06 p0807 N84-15258
Volume recovery in glasses: A free-volume diffusion process
[DE83-013771] 06 p0811 N84-15280
Time delay estimation using the adaptive delay element
[DE84-002042] 06 p0830 N84-15403
Second-order adaptive infinite impulse response filter
[DE84-001768] 06 p0831 N84-15406
General method for fatigue analysis of vertical axis wind turbine blades
[DE84-002654] 06 p0861 N84-15613
Microcrack damage model of brittle rock
[DE84-002068] 06 p0879 N84-15717
InAsSb strained-layer superlattices for long wavelength detector applications
[DE84-001055] 06 p0924 N84-16004
An In0 2Ga0 8As/GaAs, modulation-doped, strained-layer superlattice field-effect transistor
[DE84-000136] 06 p0924 N84-16006
Ion-beam analysis and ion implantation in the study of diffusion
[DE84-000954] 06 p0924 N84-16008
Densification of shock-treated aluminum nitride and aluminum oxide
[DE84-003251] 07 p0968 N84-16273
Correlations between surface structure and catalytic reactivity for alkane hydrogenolysis over nickel
[DE84-002610] 07 p0971 N84-16292
Photoenhancement of gas-solid reactions by surface excitation
[DE84-003106] 07 p0972 N84-16299
Microstructures of stainless steels exhibiting reduced friction and wear after implantation with Ti and C
[DE84-002252] 07 p0975 N84-16318
Membrane separators for circulating electrolyte storage batteries
[DE84-002106] 07 p0998 N84-16471
Effects of water on the cathode passivation by lithium dithionite in the Li/SO2 battery
[DE84-003103] 07 p0998 N84-16473
Line-source E-beam crystallization of silicon-on-insulator films
[DE84-003218] 07 p0999 N84-16478
Pulsed-laser atom probe: Recent applications
[DE82-020093] 07 p1010 N84-16551
Wind load and life-cycle testing of second generation heliostats
[DE84-003333] 07 p1026 N84-16648
COBOL programming standards at Sandia labs
[DE84-001790] 07 p1055 N84-16835
Error estimators for stiff differential equations
[DE84-003331] 07 p1064 N84-16901
Light ion beam fusion research at Sandia National Laboratories
[DE84-002109] 07 p1078 N84-17007
Comparison of thermal, line-source electron beam and CW laser annealing for the fabrication of ErSi/sub 2 Schottky barrier on Si
[DE84-003105] 07 p1081 N84-17031
Resonance between channeled particle wavelengths and periodicity of strained-layer superlattices
[DE84-002173] 07 p1081 N84-17032
Material properties of semiconductor strained-layer superlattices
[DE84-002103] 07 p1082 N84-17034
Effects of light and modulation frequency on spin-dependent trapping at silicon grain boundaries
[DE84-002107] 07 p1082 N84-17035
Modification of point defects in quartz for device applications
[DE84-002611] 07 p1082 N84-17036
Development of the parachute recovery system for the LBRV-2 reentry vehicle
[DE84-003340] 08 p1100 N84-17151
Friction and wear reduction of 440C stainless steel by ion implantation
[DE84-003255] 08 p1133 N84-17371
Theory of dynamic ferroelectricity
[DE84-002609] 08 p1152 N84-17500
Sensitivity and accuracy analysis of pulse diffusivity measurements on layered samples
[DE84-002104] 08 p1165 N84-17584
Frequency and mode shape calculations for vertical axis wind turbines using reduction techniques and complex eigensolvers
[DE84-003316] 08 p1172 N84-17633
Study of thermal fatique of soldered photovoltaic cells by thermal resistance measurement
[DE84-003764] 08 p1181 N84-17692
L2-projection for transferring data between finite element meshes
[DE84-000063] 08 p1221 N84-17973
Light ion fusion
[DE84-003767] 08 p1233 N84-18061
Metallic microwave conductivity in shock-loaded rutile
[DE84-002174] 08 p1235 N84-18075
Dynamic fragmentation of ferroelectric ceramics using the torsional Kolsky bar
[DE84-003726] 09 p1289 N84-18415
Factorization using the quadratic sieve algorithm
[DE84-004140] 09 p1379 N84-19010
X-ray line broadening studies on aluminum nitride, titanium carbide and titanium diboride modified by high pressure shock loading
[DE84-003257] 10 p1463 N84-19553
Some recent results in wave propagation
[DE84-003107] 10 p1482 N84-19686
In situ laser measurements of silicon CVD
[DE84-004148] 10 p1501 N84-19809
Altering the application of the traditional systems lifecycle
[DE84-000052] 10 p1505 N84-19837
An explosive driven shock tube for verifying survival of radioisotope heat sources during space shuttle launch accident 10 p1509 N84-19876
Effect of measurement system phase response on shock spectrum computation 10 p1509 N84-19877
Evaluation and control of conservatism in drop table shock tests 10 p1509 N84-19879
Factorization using the quadratic sieve algorithm
[DE84-004996] 10 p1572 N84-20299
Detection of multiple sinusoids using an adaptive cascaded structure
[DE84-005521] 11 p1645 N84-20753
Complex impedance of Ca/CaCrO4/Fe thermal batteries
[DE84-005507] 11 p1647 N84-20771
Numerical solution for a spinning, nutating, fluid-filled cylinder
[DE84-005878] 11 p1654 N84-20799
Drift prediction for a roll-stabilized inertial measurement system
[AD-P002674] 11 p1657 N84-20811
Effect of measurement system phase response on shock spectrum computation
[AD-P002688] 11 p1659 N84-20823
Systems approach to measuring short-duration acceleration transients
[AD-P002690] 11 p1659 N84-20825
Analysis of a time-of-flight neutron spectrometer
[DE84-006504] 11 p1661 N84-20836
Standard environmental test methods
[DE84-006471] 11 p1666 N84-20868
Mapping the acid stimulation in the Beowawe geothermal field using surface electrical potentials
[DE84-004995] 11 p1672 N84-20908
Modeling of the regional hydraulics of the Rustler Formation
[DE84-005859] 11 p1672 N84-20910
One solution to STAR-1100 in a dual machine environment
[DE83-017160] 11 p1704 N84-21109
SANDUS MA164 digital data acquisition system specifications, November 8, 1982
[DE84-006502] 11 p1704 N84-21110
Flexible automated waveform recorder data acquisition program
[DE84-005553] 11 p1709 N84-21141
Interpolation for Runge-Kutta methods
[DE84-006455] 11 p1716 N84-21193
Location errors in time-of-arrival types of systems with augmenting equations
[DE84-006250] 11 p1717 N84-21198
AC conductivity of polycrystalline Ca-Alpha-double prime-alumina
[DE84-005529] 11 p1745 N84-21386
Structural phase transitions at high pressure: Quantum effects
[DE84-005724] 11 p1745 N84-21390
Development of the parachute recovery system for the LBRV-2 reentry vehicle
[DE84-001540] 12 p1766 N84-21518
Compatibility and accelerated aging study for Li(Si)/FeS/sub 2 thermally activated batteries
[DE84-006099] 12 p1813 N84-21818
Field experience with voltage breakdown in photovoltaic (PV) arrays
[DE84-005551] 12 p1844 N84-22020
Solid modelling in the Department of Energy 12 p1870 N84-22188
Step sizes used by one-step codes for ODEs
[DE84-006317] 12 p1895 N84-22344
Step size control in ODE solvers
[DE84-006391] 12 p1895 N84-22345
Reliability analysis using network simulation
[DE84-006990] 12 p1904 N84-22397
Preliminary results of the effects of sewing, packing and parachute deployment on material strength
[DE84-006464] 13 p1927 N84-22541
Plasma-initiated laser deposition of polycrystalline and monocrystalline silicon films
[DE84-005527] 13 p1996 N84-22953
Thick-wall Kevlar 49/epoxy pressure vessels
[DE84-003102] 14 p2120 N84-23707
Mechanical behavior of surface aminated polyaramid fabric/epoxy composites
[DE84-006230] 14 p2120 N84-23708
Energy and statistical effects in the dynamic fragmentation of metal rings
[DE84-005458] 14 p2128 N84-23760
Testing of sealed lead-acid batteries
[DE84-008209] 14 p2141 N84-23840
Some difficulties developing a large-scale research grade CAD program for a production environment
[DE84-005549] 14 p2142 N84-23845
Helical screw rheometer: A new concept in rotational rheometry
[DE84-004055] 14 p2149 N84-23873
Intercomparison of zinc freezing point cells and standard platinum resistance thermometers
[DE84-007440] 14 p2149 N84-23875
Laser-induced etching of insulators using a dc glow discharge in silane
[DE84-007570] 14 p2151 N84-23888
Comparison of finite element predictions and experimental data for the forced response of the DOE 100 kW vertical axis wind turbine
[DE84-007977] 14 p2159 N84-23932
Observations of damage and transport of hydrogen in ion bombarded polycrystalline silicon
[DE84-008035] 14 p2243 N84-24468
Improved prediction of parachute line sail during lines-first deployment
[DE84-007340] 15 p2258 N84-24563
Examination of frontal development during a dry forward combustion
[DE84-008304] 15 p2288 N84-24726
Study of Deflagration-to-Detonation Transition (DDT) in the granular explosive, CP
[DE84-009500] 15 p2305 N84-24828
Gravitational instability of an interface between two second-order fluids 15 p2314 N84-24887
Studies of elastic-plastic response under high pressure shock loading 15 p2316 N84-24900
Diagnostic tools for mapping California EOR processes
[DE84-006232] 15 p2359 N84-25157
Solar molten salt electric experiment
[DE84-006340] 15 p2363 N84-25178
Local error estimating by doubling
[DE84-010107] 15 p2363 N84-25180
Adaptive coherence estimation
[DE84-006486] 15 p2393 N84-25361
German-English technical glossary
[DE84-007978] 15 p2418 N84-25521
Model catalytic studies using metal single crystals
[DE84-010267] 18 p2812 N84-27850
Simulation of electromagnetic instabilities of high-voltage gaps
[DE84-010624] 18 p2812 N84-27851
Gel structures in leached alkali silicate glass
[DE84-009928] 18 p2819 N84-27899
Shell shock structural code, fourth edition
[DE84-009549] 18 p2853 N84-28118
Operational experience from solar thermal energy projects 18 p2874 N84-28251
Research library goes online: The use of DOBIS/LIBIS at the Sandia Technical Library
[DE84-010265] 18 p2945 N84-28676
System 2000 to dBASE 2 and back again
[DE84-008031] 18 p2945 N84-28677
Atmospheric transmittance model for a solar beam propagating between a heliostat and a receiver
[DE84-007980] 18 p2953 N84-28716

High temperature electrical conductivity of rigid polyurethane foam
[DE84-008699] 19 p3018 N84-29137
Linear stability of general magnetically insulated electron flow
[DE84-010148] 19 p3018 N84-29138
Transient response of GaAs microwave power FET to X-ray pulses
[DE84-008816] 19 p3019 N84-29139
Fragmentation under impulsive stress loading
[DE84-006341] 19 p3037 N84-29263
Stability of explicit Runge-Kutta methods
[DE84-008902] 19 p3090 N84-29621
Preparation of device quality strained-layer superlattices
[DE84-009488] 19 p3112 N84-29776
Operations manual for the data acquisition and reduction system, Area III Actuator Test Facility
[DE84-008906] 19 p3116 N84-29803
Experimental facilities to study hydrogen combustion and detonation
[DE84-008998] 20 p3149 N84-29997
Thin flame model for reactive flow in porous materials
[DE84-011406] 20 p3150 N84-30002
Pulsed-laser atom-probe studies of surface chemical reactions
[DE84-012811] 20 p3151 N84-30007
Experimental research facility for creep-rupture testing of tantalum alloy T-111
[DE84-012030] 20 p3155 N84-30036
Creep-fatigue and temperature synergisms in alloy 800
[DE84-010131] 20 p3157 N84-30046
Liquid metal infiltration of an aluminum alloy into a packed column of B4C particles
[DE84-012136] 20 p3158 N84-30055
Alkali-free phosphate glasses for high temperature, high electrical resistivity applications
[DE84-011533] 20 p3164 N84-30091
Quality control analysis of TA-23 glass seals for lithium ambient temperature batteries
[DE84-011719] 20 p3164 N84-30094
Lead zirconate-lead titanate (PZT) ceramics from organic-derived precursors
[DE84-009921] 20 p3164 N84-30095
Acoustical communications by means of small explosive charges
[DE84-008903] 20 p3175 N84-30161
UV laser triggering of crowbars used in the Sandia lightning simulator
[DE84-009064] 20 p3180 N84-30199
Zinc/bromine batteries: A status review
[DE84-008973] 20 p3181 N84-30206
Lightning simulator circuit parameters and performance for severe-threat, high-action-integral testing
[DE84-009065] 20 p3181 N84-30211
A users manual for the laser welding code WELD2D
[DE84-011167] 20 p3197 N84-30306
Method for defining the distribution of triaxial stress states in underground structures
[DE84-010591] 20 p3202 N84-30342
Instrumenting and interpreting the time-varying response of structural systems
[DE84-009067] 20 p3203 N84-30346
Development of a high-pressure quasi-isentropic plane wave generating capability
[DE84-011619] 20 p3203 N84-30348
Photovoltaic concentrators: Present status and future role
[DE84-005520] 20 p3235 N84-30532
Comparison of lightning flash rates from the PBE sensor and streak counting from the DMSP satellite
[DE84-006722] 20 p3246 N84-30602
Quality Assurance (QA) procedures for computer software in department 1510
[DE84-012131] 20 p3273 N84-30778
SLATEC mathematical subprogram library, version 2.0
[DE84-010750] 20 p3274 N84-30782
Software quality assurance programs: Key elements of concern in selected commercial approaches
[DE84-009486] 20 p3274 N84-30785
Graphics workstation switching unit
[DE84-011626] 20 p3275 N84-30788
GRAPH 2: A digitizing and graph plotting program
[DE84-010747] 20 p3282 N84-30834
Boolean computation of optimum hitting sets
[DE84-012920] 20 p3283 N84-30842
Propagation of acoustic waves in partially saturated porous media
[DE84-010536] 20 p3291 N84-30896
Ambient temperature testing of the G-tunnel heated block
[DE84-009927] 20 p3298 N84-30945
Energy-resolving carbon resistance probes for plasma edge characterization
[DE84-012235] 20 p3306 N84-30997
Strained layer superlattice materials for millimeter wave FET's, phase 1
[DE84-011475] 20 p3308 N84-31007
Transient response of GaAs microwave power FET to X-ray pulses
[DE84-010145] 20 p3309 N84-31017
Common data input-retrieval system
[DE84-010972] 20 p3315 N84-31053
DBMS conversion case study
[DE84-011205] 20 p3315 N84-31054
Stretch effects in plane premixed hydrogen-air flames
[DE84-012035] 21 p3360 N84-31311
Sodium compatibility of refractory metal alloy/304L braze joints
[DE84-012877] 21 p3368 N84-31364
Enhanced low-temperature performance of a multicell LiSOC1sub2 battery
[DE84-011680] 21 p3394 N84-31537
Emerging battery technologies
[DE84-011193] 21 p3394 N84-31538
Multicell LiSOCl sub 2 reserve battery
[DE84-012812] 21 p3395 N84-31542
New approach to the effective stress principle
[DE84-006963] 21 p3401 N84-31574
Lower confidence bounds on system reliability using component data: Maximum methodology
[DE84-012813] 21 p3415 N84-31658
A data acquisition and analysis system for fiber creep testing
[DE84-012654] 21 p3422 N84-31709
NASTRAN-based computer program for structural dynamic analysis of horizontal axis wind turbine
[DE84-011257] 21 p3423 N84-31713
Combined experimental/analytical modeling using component mode synthesis
[DE84-013147] 21 p3423 N84-31715
Neutron damage effects in AlGaAs/GaAs solar cells
[DE84-009448] 21 p3435 N84-31791
Solar thermal parabolic dish systems: Technology and applications
[DE84-012239] 21 p3435 N84-31792
A comparative evaluation of new low-cost array field designs for grid-connected photovoltaic systems
[DE84-010978] 21 p3435 N84-31797
APC-2: An electron beam propagation code
[DE84-011532] 21 p3494 N84-32144
PIXE and PBFA 2: Pulsed X-ray source feasibility study
[DE84-011535] 21 p3496 N84-32155
A multi-GHz multi-channel photonic analog data processing system
[DE84-012281] 21 p3499 N84-32175
Radiation effects in optoelectronic devices
[DE84-012889] 21 p3499 N84-32176
Current status of calculations and measurements of ion stopping power in ICF plasmas
[DE84-005880] 21 p3501 N84-32187
Irradiation of optimized, MBE grown, AlGaAs radiation hardened photodiode
[DE84-008034] 21 p3504 N84-32208
Superlattice structures grown by molecular beam epitaxy
[DE84-011288] 21 p3505 N84-32209
Technology transfer revisited
[DE84-012233] 21 p3519 N84-32293
Highly sensitive high resolution Raman spectroscopy using resonant ionization methods
[DE84-012240] 22 p3548 N84-32460
Dielectric breakdown distributions of large dielectric constant liquids
[DE84-013216] 22 p3548 N84-32461
Physical techniques for profiling heterogeneous polymer degradation
[DE84-013807] 22 p3560 N84-32547
Effect of thermal aging on the output of a pyrotechnic actuator
[DE84-012903] 22 p3562 N84-32558
Optical fiber termination and splicing techniques
[DE84-013919] 22 p3564 N84-32572
Ampule tests to simulate glass corrosion in ambient temperature lithium batteries, volume 2
[DE84-014330] 22 p3589 N84-32732
Review of flow battery testing at Sandia
[DE84-011186] 22 p3589 N84-32734
A 50 kJ repetitively pulsed capacitor bank
[DE84-012959] 22 p3589 N84-32735
Least-squares smoothing of direct-exchange in zonal analysis
[DE84-002612] 22 p3595 N84-32770
Rectangular heat source on a semi-infinite solid: An analysis of a thin film heat flux gage
[DE84-012234] 22 p3599 N84-32796
Failure prediction of notched pressure vessels using the CTOD approach
[DE84-013057] 22 p3612 N84-32883
Computer system for fiber creep testing
[DE84-014453] 22 p3612 N84-32885
Thermal modeling of line focus photovoltaic systems
[DE84-013920] 22 p3618 N84-32927
Concentrating photovoltaic technology
[DE84-012275] 22 p3619 N84-32931
Solving low density knapsacks
[DE84-006964] 22 p3641 N84-33085
Some practical Runge-Kutta formulas
[DE84-013539] 22 p3646 N84-33123
Asymptotic relative efficiencies of the rank transformation procedure in randomized complete block designs
[DE84-010600] 22 p3649 N84-33134
Experimental investigation of certain beam transport issues in a pulsed transmission line linear accelerator
[DE84-011191] 22 p3654 N84-33164
PVC (polyvinylchloride) pipe reliability and failure modes
[DE84-013862] 23 p3725 N84-33604
Ultraviolet laser triggering of the 6 MV PBFA-2 gas switch
[DE84-014004] 23 p3755 N84-33802
Sandia National Laboratories administrative data processing systems
[DE84-014328] 23 p3817 N84-34202

SANDIA LABS., KIRTLAND AFB, N. MEX.
TOPAZ: A computer code for modeling heat transfer and fluid flow in arbitrary networks of pipes, flow branches, and vessels
[DE84-006275] 11 p1709 N84-21142

SANDIA LABS., LIVERMORE, CALIF.
The X-ray-diffraction analysis of corrosion products of Fe-Ni-Cr alloys formed in molten-nitrate salts
[DE83-013317] 01 p0046 N84-10293
Zero-dimensional model of compressible gas flow in networks of pressure vessels: Program TRIC
[DE83-017121] 03 p0373 N84-12431
Gauge block isometer development
[DE83-018288] 03 p0378 N84-12458
Fundamental combustion and diagnostics research at Sandia
[DE84-001787] 05 p0651 N84-14280
Porosity decrease in laser welds of stainless steel using plasma control
[DE84-002194] 05 p0688 N84-14521
Sodium heat transfer system modeling
[DE84-002051] 07 p1004 N84-16509
Biaxial tension tests of HERF 304L stainless steel
[DE84-006205] 11 p1634 N84-20685
Optical and electronic methods for weld arc viewing
[DE84-009731] 19 p3032 N84-29233
Thermocouple simulation: A calibration technique
[DE84-012408] 21 p3406 N84-31606

SANTA BARBARA RESEARCH CENTER, GOLETA, CALIF.
HgCdTe surface study program
[AD-A132071] 03 p0349 N84-12266
Thematic Mapper (TM) instrument description
20 p3205 N84-30363
Thematic Mapper sensor characteristics
20 p3206 N84-30365
HgCdTe surface and defect study program
[AD-A142342] 20 p3308 N84-31010

SANTA CLARA UNIV., CALIF.
Secondary flow spanwise deviation model for the stators of NASA middle compressor stages
[NASA-CR-173360] 09 p1256 N84-18202
Research and development of alcohol fuel usage in spark ignited engines
[DE84-011177] 21 p3374 N84-31412

SANTA FE RESEARCH CORP., N. MEX.
Effects of diesel vehicles on visibility in California
[PB84-122167] 08 p1184 N84-17714

SAO PAULO UNIV. (BRAZIL).
The Motion of Planets and Natural and Artificial Satellites, volume 2 19 p3117 N84-29806
Formal solutions in a double resonant problem
19 p3118 N84-29813
A numerical averaging procedure for the Galilean Satellites system 19 p3118 N84-29816
Galilean satellites: Observations, ephemerides and theories 19 p3120 N84-29829
A 2:1 Commensurability in Uranus-Neptune system
19 p3120 N84-29833
A note about Lie series and some applications
19 p3121 N84-29836
A simple theory of Trojan asteroids
19 p3121 N84-29837

SARGENT AND LUNDY, ENGINEERS, CHICAGO, ILL.
Integrated analysis and design for multi-level performance criteria 15 p2314 N84-24885

SARKARIA (K. S.), CHANDIGARH (INDIA).
Non-degenerescence of some spectral sequences
22 p3634 N84-33027

SASKATCHEWAN UNIV., SASKATOON.
Measurement of the horizontal velocity of wind perturbations in the middle atmosphere by spaced MF radar systems 17 p2688 N84-27121
SCHAFER (W. J.) ASSOCIATES, INC., WAKEFIELD, MASS.
Assessment of the adequacy of US accelerator technology for Department of Energy Missions
[DE84-001632] 04 p0598 N84-13945
Proof of principle experiment for a coherent CO2 waveguide laser array
[AD-A139121] 14 p2150 N84-23881
Analyses on the low voltage free electron laser
[AD-A143681] 23 p3754 N84-33796
SCHIRMER-PLATE SIEMPELKAMP HYDRAULISCHE PRESSEN G.M.B.H., KREFELD (WEST GERMANY).
Technical information concerning rubber cushion presses 02 p0206 N84-11346
SCHLAICH UND PAETNER BERATENDE INGENIEURE IM BAUWESEN, STUTTGART (WEST GERMANY).
A photovoltaic concentrator for 500 Wpk using a C50-Si generator and a glass-laminated metal membrane reflector
[BMFT-FB-T-84-050] 16 p2519 N84-26168
SCHLUMBERGER-DOLL RESEARCH, RIDGEFIELD, CONN.
Profile inversion of a planar medium with a line source or a point source 23 p3776 N84-33938
Diffraction of waves by bed boundaries in an open borehole 23 p3776 N84-33939
SCHLUMBERGER WELL SURVEYING CORP., HOUSTON, TEX.
Radial inversion of TE measurements in a borehole 23 p3776 N84-33940
SCHMITT (RAINER), GLASHUTTEN (WEST GERMANY).
Investigations of micro-turbulence in the bottom of the boundary layer
[AD-A138524] 12 p1861 N84-22123
SCHNEIDER (JOS.) OPTISCHE WERKE A.G., BAD KREUZNACH (WEST GERMANY).
Graphical error analysis
[BMFT-FB-T-84-081] 22 p3642 N84-33093
SCHOOL OF AEROSPACE MEDICINE, BROOKS AFB, TEX.
Matched survival analysis (MSURV)
[AD-A131337] 02 p0284 N84-11861
Linear rank procedures for matched observations
[AD-A131338] 02 p0284 N84-11862
A laboratory comparison of portable cooling systems for workers exposed to two levels of heat stress
[AD-A131848] 03 p0372 N84-12423
Combined effects of ionizing radiation and anticholinesterase exposure on rodent motor performance
[AD-A131847] 03 p0414 N84-12707
Decompression procedures for flying after diving, and diving at altitudes above sea level
[AD-A132039] 04 p0572 N84-13771
Duration of memory loss due to electron beam exposure
[AD-A132941] 06 p0886 N84-15760
Organizational-climate dimensions: A conceptual and judgmental analysis
[AD-A132898] 06 p0934 N84-16068
A set of organizational-climate measures: Internal consistency, factor structure, and predictive power
[AD-A135352] 09 p1398 N84-19132
Aircrew fatigue during extended transport, tactical, and command post operations 11 p1698 N84-21075
Yellow ophthalmic filters in the visual acquisition of aircraft
[AD-A138536] 13 p2020 N84-23097
Motor performance in irradiated rats as a function of radiation source, dose, and time since exposure
[AD-A141209] 18 p2894 N84-28363
Psychological evaluation of aircrew members
[AD-P003286] 18 p2908 N84-28440
Animal models for the assessment of laser induced eye damage
[AD-P003293] 18 p2908 N84-28443
Hyperbaric chamber equipment: A consolidated equipment list from selected multiplace hyperbaric facilities
[AD-A141702] 19 p2970 N84-28820
Delayed effects of proton irradiation in Macaca mulatta. 3: Glucose intolerance
[AD-A142289] 20 p3256 N84-30669
Elementary principles of linear accelerators
[DE84-007911] 20 p3294 N84-30913
Total aerosol volume computed from laser spectrometer particle-size data for comparison with flame photometer total-mass data
[AD-A143171] 21 p3359 N84-31306
Measurement of specific absorption rate in human phantoms exposed to simulated Air Force radar emissions
[AD-A143570] 22 p3631 N84-33007
SCHOTT GLASWERKE, MAINZ (WEST GERMANY).
Development of fine-structured components for gas discharge displays
[BMFT-FB-T-84-031] 19 p3000 N84-29015
SCHUNK UND EBE G.M.B.H., GIESSEN (WEST GERMANY).
Torsion characteristics of isotropic and carbon fiber reinforced carbons
[REPT-35] 02 p0189 N84-11226
SCHWEIZERISCHE METEOROLOGISCHE ZENTRALANSTALT, ZURICH.
Prospective use of a mobile radiation system to validate techniques of radiation estimations from satellite records 10 p1536 N84-20064
SCHWELMER EISENWERK MUELLER UND CO. G.M.B.H., SCHWELM (WEST GERMANY).
Investigations of mechanical properties of high strength steels and their suitability for glass lining
[BMFT-FB-T-84-076] 21 p3368 N84-31370
SCI-TEC, INC., PRINCETON, N.J.
A program to improve solar blind UV (ultraviolet) flash lamps
[AD-A141909] 20 p3177 N84-30177
SCICON CONSULTANCY INTERNATIONAL LTD., LONDON (ENGLAND).
Command decision makers and their modes of interaction
[AD-P002882] 13 p1978 N84-22843
The use of reciprocal polar co-ordinates in passive tracking
[AD-P002906] 13 p1981 N84-22860
SCIENCE AND EDUCATION ADMINISTRATION, GAINESVILLE, FLA.
Evaluation of insecticides, repellents, and other approaches to the control of coastal stand flies, culicoides spp
[AD-A141132] 19 p3063 N84-29435
SCIENCE APPLICATIONS, INC., ALBUQUERQUE, N. MEX.
Evaluation of pumps for wind-driven irrigation
[DE83-013438] 01 p0090 N84-10587
SCIENCE APPLICATIONS, INC., BOULDER, COLO.
Electron-cyclotron maser and whistler instabilities in a relativistic electron plasma with loss-cone distribution
[DE84-001607] 04 p0541 N84-13561
Resonant-3-wave mode coupling in inhomogeneous plasmas: Symmetry breaking by omega meson-*
[DE84-001633] 04 p0606 N84-13999
Locally omnigenous tandem-mirror design
[DE84-001605] 04 p0607 N84-14007
Nonlinear orbits in free-electron lasers with a linear magnetic wiggler and a strong axial magnetic guide field
[AD-A135984] 09 p1323 N84-18642
Introduction to tandem mirror physics
[DE84-006644] 12 p1911 N84-22451
A rf-induced stability of mirrors with inverted pressure profiles
[DE84-007018] 13 p2045 N84-23273
Ballooning precessional instabilities in a single cell hot electron plasma
[DE84-007017] 14 p2230 N84-24373
RF-induced stability and transport in axisymmetric tandem mirrors
[DE84-010842] 20 p3306 N84-30999
Azimuthal electric fields and tandem ambipolarity
[DE84-010843] 21 p3501 N84-32189
SCIENCE APPLICATIONS, INC., CHATSWORTH, CALIF.
Spray combustion of synthetic fuels. Phase 2. Spray-combustion phenomena
[DE83-014541] 02 p0191 N84-11242
Turbulent transport models for scramjet flowfields
[NASA-CR-172284] 10 p1491 N84-19747
Detailed flow measurements in fuel-rich, particle-laden plumes 13 p1952 N84-22690
Computational hierarchy for the analysis of combustion phenomena in ramjet environments 21 p3354 N84-31277
SCIENCE APPLICATIONS, INC., DAYTON, OHIO.
A stochastic atmospheric model for remote sensing applications
[NASA-CR-172181] 01 p0100 N84-10648
Development of color criteria for advanced displays
[AD-A143246] 22 p3630 N84-33006
SCIENCE APPLICATIONS, INC., HUNTSVILLE, ALA.
The control of float zone interfaces by the use of selected boundary conditions
[NASA-CR-170959] 07 p1079 N84-17017
SCIENCE APPLICATIONS, INC., LA JOLLA, CALIF.
Reversed-field pinch large aspect ratio equilibrium
[DE83-016771] 03 p0449 N84-12953
d-d Tokamak reactor assessment
[DE83-016127] 04 p0609 N84-14019
Studies in RF emission and absorption in EBT plasmas
[DE84-002118] 07 p1076 N84-16996
Reversed-field pinch dynamics and transport studies
[DE84-009054] 15 p2411 N84-25472
The importance of neutrals, transient effects, and the Earth's magnetic field on sheath structure
[AD-P002119] 16 p2524 N84-26205
DDRFP transport code
[DE84-008573] 19 p3109 N84-29753
Ambient temperature testing of the G-tunnel heated block
[DE84-009927] 20 p3298 N84-30945
SCIENCE APPLICATIONS, INC., LOS ANGELES, CALIF.
Application of the CONTAM 3 computer model to the prediction of heating, forces, and contamination on a communications satellite 13 p1941 N84-22621
CONTAM 3 plus improved CONTAM 3 usability 13 p1941 N84-22622
Recent applications of the CONTAM 3 computer model to spacecraft propulsion systems 20 p3137 N84-29916
SCIENCE APPLICATIONS, INC., MCLEAN, VA.
Image Understanding, 14th Workshop
[AD-A130251] 01 p0147 N84-10963
Review of ionospheric VLF and ELF generation 05 p0634 N84-14174
The space shuttle environment as evidence of critical ionization phenomena 05 p0639 N84-14204
Wireless communication systems
[AD-A135830] 09 p1300 N84-18496
Spaceborne Gravity Gradiometers
[NASA-CP-2305] 09 p1335 N84-18716
Spaceborne Gravity Gradiometers. Part 1: Summary and recommendations 09 p1335 N84-18717
Spaceborne Gravity Gradiometers. Part 2: Role of gravity gradiometers in NASA's programs 09 p1335 N84-18718
Spaceborne Gravity Gradiometers. Part 3: Instrument status and prospects 09 p1335 N84-18719
Spaceborne Gravity Gradiometers. Part 4: Common problems 09 p1336 N84-18720
Spaceborne Gravity Gradiometers. Part 5: Development plan 09 p1336 N84-18721
Technical specifications for spread function model
[AD-A137292] 10 p1575 N84-20321
Velocity shear stabilization of the current convective instability
[AD-A137963] 12 p1909 N84-22439
Active Program Research Requirements (APRR), volume 1
[DE84-002141] 12 p1921 N84-22513
Cost realism: Assuring more realistic contractor cost proposals
[AD-P002800] 13 p2058 N84-23346
Active ionospheric generation on ELF/VLF waves
[AD-A139317] 14 p2176 N84-24034
Upper ocean shear during JASIN: A deterministic and statistical analysis
[AD-A139077] 14 p2183 N84-240[illegible]
Plasma physics issues in advanced simulati[illegible] research
[AD-A139628] 15 p2410 N84-25485
Study of e-beam propagation in the ionosphere and magnetosphere
[AD-A142206] 19 p3054 N84-29380
Energy release and fluid dynamics in multiphase systems
[AD-A142402] 20 p3184 N84-30228
Geophysical plasmas and atmospheric modeling
[AD-A142573] 20 p3240 N84-30572
Three-dimensional computer model for the atmospheric general circulation experiment
[NASA-CR-171109] 21 p3446 N84-31863
Parts on demand: Evaluation of approaches to achieve flexible manufacturing systems for Navy parts on demand, volume 1
[AD-A143248] 22 p3604 N84-32830
Temporal evolution of whistler growth in a cold plasma injection experiment
[NASA-CR-173972] 23 p3828 N84-34280
Research and development support for the Center for Seismic Studies
[AD-A144442] 24 p3920 N84-34813
SCIENCE APPLICATIONS, INC., MONTEREY, CALIF.
Tropical cyclone wind probability forecasting for the southern hemisphere (WINDPSH)
[AD-A136146] 09 p1350 N84-18817
Forecast aids for predicting tropical cyclone associated gusts and sustained winds for Agana, Hong Kong, Kadena and Misawa
[AD-A137846] 11 p1687 N84-21001
SCIENCE APPLICATIONS, INC., ORLANDO, FLA.
Synthetic flight training system study
[AD-A139392] 14 p2111 N84-23658

SCIENCE APPLICATIONS, INC., PALO ALTO, CALIF.
Software development and maintenance guidelines, volume 1
[DE83-902192] 02 p0274 N84-11793
SCIENCE APPLICATIONS, INC., PLEASANTON, CALIF.
Moving finite elements in 2-D
[AD-A131279] 02 p0281 N84-11842
Moving finite elements in 2-D
[AD-A132700] 05 p0736 N84-14831
Radially resolved simulation of a high-gain free electron laser amplifier
[DE84-003751] 08 p1165 N84-17585
Moving finite element research for shock hydrodynamics, continuum mechanics and combustion
[AD-P002970] 14 p2201 N84-24206
Moving finite elements in 2-D. Technical report: Year 3
[DE84-008551] 20 p3282 N84-30840
SCIENCE APPLICATIONS, INC., PRINCETON, N.J.
Fully-coupled analysis of jet mixing problems. Part 1. Shock-capturing model, SCIPVIS
[NASA-CR-3761] 06 p0834 N84-15425
SCIENCE APPLICATIONS, INC., RALEIGH, N.C.
Long-term salinity, temperature and current measurements in upper Chesapeake Bay
[PB84-180280] 20 p3251 N84-30636
South Atlantic physical oceanography study (year 5). Volume 1: Executive summary
[PB84-187855] 21 p3451 N84-31899
SCIENCE APPLICATIONS RESEARCH, RIVERDALE, MD.
Multiresolution spatially constrained clustering of remotely sensed data on the massively parallel processor 23 p3779 N84-33962
SCIENCE APPLICATIONS, INC., SAN DIEGO, CALIF.
Satellite measurements of marine aerosols 06 p0871 N84-15671
Satellite measurements of atmospheric aerosols
[AD-A135241] 08 p1190 N84-17757
AVHRR aerosol ground truth experiment
[PB84-157882] 14 p2181 N84-24065
Procurement of materials required to fabricate and test space-qualified quadrant photo tubes for the SHAD satellite sensor
[AD-A139862] 15 p2280 N84-24696
SCIENCE APPLICATIONS, INC., SCHAUMBURG, ILL.
Joint Atomic Information Exchange Group information management project. Briefing outlining functions and specifications of JAIEG automated information management system
[DE84-001800] 06 p0936 N84-16082
Joint Atomic Information Exchange Group information management project. Task 2 briefing document. System specification and hardware/software purchase recommendations for JAIEG automated information management system
[DE84-001798] 06 p0936 N84-16083
Cost estimation model for advanced planetary programs, fourth edition
[NASA-CR-173495] 13 p1936 N84-22590
Advanced planetary studies
[NASA-CR-173496] 13 p1936 N84-22591
Comet nucleus sample return mission
[NASA-CR-173501] 13 p1936 N84-22592
Titan exploration with advanced systems. A study of future mission concepts
[NASA-CR-173499] 13 p1936 N84-22593
Performance assessment of planetary missions as launched from an orbiting space station
[NASA-CR-173498] 13 p1936 N84-22594
A review of in situ propellant production techniques for solar system exploration
[NASA-CR-173494] 13 p1936 N84-22595
SCIENCE APPLICATIONS, INC., WAYNE, PA.
Numerical simulation of flow over rough surfaces, including effects of shock waves
[AD-A134700] 08 p1159 N84-17545
SCIENCE RESEARCH COUNCIL, CHILTON (ENGLAND).
Ionospheric factors affecting the performance of HF sky-wave sea-state radars 06 p0868 N84-15656
Pattern recognition and image processing review
[AD-B084815] 08 p1211 N84-17897
Calculation of two-dimensional focusing factor distribution due to specular flux transfer between general curves 10 p1448 N84-19459
The use of dual-polarization radar data to predict attenuation from precipitation on Earth-space paths
[ESA-CR(P)-1845] 12 p1809 N84-21798
A GaAs refractometer for tropospheric studies 15 p2324 N84-24952
Radar altimetry over sea ice 17 p2719 N84-27309
The broad absorption line region in NGC 4151 24 p3971 N84-35146
A general survey of the correlation of interstellar element depletion with line-of-sight density indicators 24 p3973 N84-35158
Interstellar chlorine abundance: Results and implications of a large-scale survey 24 p3973 N84-35159
IUE data reduction facilities on Starlink 24 p3982 N84-35226
Phase-dependent stellar wind absorptions in interacting Wolf-Rayet binaries 24 p3982 N84-35233
SCIENTIFIC-ATLANTA, INC., ATLANTA, GA.
A dual-ported, dual-polarized spherical near-field probe
[AD-P003514] 21 p3385 N84-31482
SCIENTIFIC RESEARCH ASSOCIATES, INC., GLASTONBURY, CONN.
Further development of a method for computing three-dimensional subsonic viscous flows in turbofan lobe mixers
[NASA-CR-168304] 05 p0679 N84-14462
Computation of discrete slanted hole film cooling flow using the Navier-Stokes equations
[AD-A137022] 10 p1493 N84-19763
Solution of 3-dimensional time-dependent viscous flows. Part 2: Development of the computer code
[NASA-CR-166565-PT-2] 17 p2666 N84-27002
Solution of 3-dimensional time-dependent viscous flows. Part 3: Application to turbulent and unsteady flows
[NASA-CR-166565-PT-3] 17 p2667 N84-27003
Solution of 3-dimensional time-dependent viscous flows. Part 1: Investigation of candidate algorithms
[NASA-CR-166565-PT-1] 17 p2757 N84-27503
Investigation of the mechanism of transonic shock wave/boundary layer interactions using a Navier-Stokes analysis
[AD-A141551] 19 p2959 N84-28752
Three-dimensional unsteady viscous flow analysis over airfoil sections
[NASA-CR-172368] 19 p3020 N84-29152
Development of a design-oriented Navier-Stokes cascade analysis
[AD-A144594] 24 p3901 N84-34703
SCIENTIFIC TRANSLATION SERVICE, SANTA BARBARA, CALIF.
On the analytical form of the Earth's magnetic attraction expressed as a function of time
[NASA-TM-77344] 05 p0702 N84-14609
SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA, CALIF.
A review of optical data analysis related to the modelling of visible and optical infrared atmospheric properties
[AD-A131486] 01 p0106 N84-10687
An experimental device for real time determination of slant path atmospheric contrast transmittance (prototype status)
[AD-A134000] 05 p0702 N84-14610
Passive remote sensing of ocean optical propagation parameters 06 p0872 N84-15673
Program in marine physics applied to Navy undersea missions
[AD-A133119] 06 p0885 N84-15753
Marine environmental acoustics
[AD-A133245] 06 p0909 N84-15902
Swirls and plumes or application of statistical methods to satellite-derived sea surface temperatures
[AD-A135482] 10 p1528 N84-20010
Prochloron research
[NASA-CR-173264] 10 p1543 N84-20113
Prochloron on synaptula 10 p1543 N84-20114
Prochloron 10 p1544 N84-20116
Prochloron-ascidian symbioses: Photosynthetic potential and productivity 10 p1544 N84-20117
Diurnal rhythm in the cell-division frequency of prochloron (prochlorophyta) in nature 10 p1544 N84-20118
Chlorophyll and carotenoid pigments of prochloron (prochlorophyta) 10 p1544 N84-20119
Report of prochloron research, IPE-7 (Palau, February 1982) 10 p1544 N84-20122
IPE 7 10 p1545 N84-20123
An ancient depleted mantle source for Archean crust in Rajasthan, India 11 p1679 N84-20957
Ventilated and unventilated models of the wind-driven circulation
[AD-P002657] 11 p1690 N84-21022
Hamilton's principle as the basis for ocean circulation models
[AD-P002658] 11 p1690 N84-21023
Annual and interannual variability in the Kuroshio Current System
[AD-P002665] 11 p1691 N84-21030
Magnetic anomalies of the ocean
[AD-A139602] 15 p2373 N84-25234
Analytic techniques for estimating visible image transmission properties of the atmosphere
[AD-A142524] 20 p3300 N84-30954
SCRIPPS INSTITUTION OF OCEANOGRAPHY, SAN DIEGO, CALIF.
Yields photosynthetic efficiencies, and proximate chemical composition of dense cultures of marine microalgae, a subcontract report
[DE83-011992] 04 p0570 N84-13757
Estimating oceanic rainfall using microwave and GOES infrared satellite data
[PB83-253013] 05 p0709 N84-14648
SDRC ENGINEERING SERVICES LTD., HERTS (ENGLAND).
Calculation of forced response to base excitation using experimentally derived modal participation factors 03 p0340 N84-12205
SEARCH TECHNOLOGY, INC., PALO ALTO, CALIF.
Reliability analysis of an ultra-reliable fault tolerant control system
[NASA-CR-166594] 21 p3345 N84-31219
SEATTLE UNIV., WASH.
Exponential-fitted methods for integrating stiff systems of ordinary differential equations: Applications to homogeneous gas-phase chemical kinetics 21 p3355 N84-31279
Identification of gamma-ray lines observed from SS433
[DE84-013829] 22 p3681 N84-33335
SECORD (NELSON W.), BRIGHTON, MICH.
WECS - load controlled pitch - variable load conversion to heat
[DE84-005328] 11 p1674 N84-20922
SEGNALAMENTO MARITTIMO ED AEREO S.P.A., FLORENCE (ITALY).
Statistical data on anomalous propagation in the Tyrrhenian Sea using an X-band link 06 p0871 N84-15668
SEIKEI UNIV., TOKYO (JAPAN).
Scaling laws on fire spread 04 p0513 N84-13368
SELENIA S.P.A., ROME (ITALY).
Rivista Tecnica Selenia, volume 8, number 2, 1982 06 p0906 N84-15882
Advanced techniques of laser telemetry 06 p0906 N84-15883
An approach to logistic problems by the L-transform method 06 p0906 N84-15884
Optimum and sub-optimum processors for multistatic radar systems 06 p0906 N84-15885
A digital ferrite phase-shifter for high power S-band operation 06 p0906 N84-15886
Rivista Tecnica Selenia, volume 8, number 3, 1983 06 p0906 N84-15887
Local area networks: Impact on shipboard applications 06 p0907 N84-15888
A radar signal processor implemented with surface acoustic waves devices 06 p0907 N84-15889
The maximum entropy method and its application to clutter cancellation 06 p0907 N84-15890
The meteorological data distribution mission on board SIRIO satellite 06 p0907 N84-15891
SAR transmitter
[SES/ENG/TN-254/83] 16 p2484 N84-25928
Rivista Tecnica Selenia, volume 8, number 1 17 p2652 N84-26961
The life cycle cost of integrated logistic support 17 p2652 N84-26962
Frequency modulation with noise in a sampled Automatic Frequency Control (AFC) system 17 p2652 N84-26963
Introduction to multiradar tracking systems 17 p2653 N84-26964
Application of sputtering technology to microwave integrated circuit fabrication 17 p2653 N84-26965
Missile system for low altitude air defence 21 p3351 N84-31255
SEMCOR, INC., FARMINGDALE, N.J.
MIL-STD-1553 multiplex applications handbook. Addendum: Chapter 11
[AD-A131551] 02 p0210 N84-11372
Interface control document for AN/ARC-186 VHF-AM/FM radio
[AD-A136939] 10 p1481 N84-19679
Interface control document for RT-XXXX/ARC-164 UHF-AM radio
[AD-A136970] 10 p1481 N84-19681
SEMICONDUCTOR RESEARCH CORP., RESEARCH TRIANGLE PARK, N.C.
VLSI signal processing: Basis for cooperation 09 p1403 N84-19168
SEMIX, INC., GAITHERSBURG, MD.
Effects of non-equilibrium solidification on the material properties of brick silicon for photovoltaics 18 p2940 N84-28648
SEMTEC, INC., HUNTSVILLE, ALA.
Transient and diffusion analysis of HgCdTe
[NASA-CR-162049] 20 p3152 N84-30015

SENER, S.A., MADRID (SPAIN).
Accuracy in folding mirror mechanism displacement law 09 p1295 N84-18464
SERVICE DE L'ENVIRONNEMENT ATMOSPHERIQUE, DORVAL (QUEBEC).
Introduction of a finite-element boundary layer model into a regional forecasting model, appendix L 18 p2885 N84-28307
SERVICE METEOROLOGIQUE METROPOLITAN, PARIS (FRANCE).
D-19 evaluating the height of tropospheric conduction of evaporation 15 p2325 N84-24962
SERVICE TECHNIQUES DES PROGRAMMES AERONAUTIQUES, PARIS (FRANCE).
Protection equipment against high velocity ejections [STPA/CIN-6] 18 p2790 N84-27705
SERVICIO METEOROLOGICO ITALIANO, ROME.
Upper air sounding subprogram of Alpine Experiment (ALPEX) 18 p2889 N84-28337
SEVERN COMMUNICATIONS CORP., SEVERNA PARK, MD.
Survey of atmospheric radiation components for the Gamma and Cosmic Ray Astrophysics Branch of the Space Science Division of the Naval Research Laboratory [AD-A141134] 19 p3124 N84-29845
SEVILLE TRAINING SYSTEMS CORP., PENSACOLA, FLA.
Processes of skill performance: A foundation for the design and use of training equipment [AD-A136879] 10 p1550 N84-20160
SHANGHAI INST. OF RAILWAY TECHNOLOGY (CHINA).
The new method of implementation for ternary logic system [AD-P002332] 14 p2190 N84-24123
Low power 2-of-3-valued CMOS self-checking circuits [AD-P002334] 14 p2190 N84-24125
SHE CORP., SAN DIEGO, CALIF.
Regeneration experiments below 10K in a regenerative-cycle cryocooler 06 p0818 N84-15332
4.0 K cryocooler project [DE84-000332] 06 p0822 N84-15358
SHEFFIELD UNIV. (ENGLAND).
The use of airborne thematic mapper simulation data for the estimation and mapping of Green Leaf Area Index (GLAI) 03 p0398 N84-12602
On sensitivity, compensation and the approach to the asymptotes in multivariable root-loci [RR-222] 03 p0426 N84-12795
Load control of a 300 hp tunnelling machine: Controller modification and testing for underground trials [RR-230] 05 p0688 N84-14524
Design of Smith control schemes for time-delay systems based on plant step data [RR-231] 05 p0733 N84-14812
Geometric conditions for generic structure of multivariable root-loci [RR-227] 05 p0738 N84-14849
Identification of nonlinear systems [RR-232] 05 p0739 N84-14850
Direct digital control of the electric arc furnace [RR-233] 13 p1974 N84-22811
Robustness and sensitivity of Smith predictor controllers for time-delay systems [RR-238] 13 p1974 N84-22812
Analysis of the transfer function model of tray-type binary distillation columns with liquid hydraulic delay [RR-234] 13 p1975 N84-22816
The effects of widening time constants and increasing time delay on controller design using approximate models [RR-239] 13 p1975 N84-22817
Stability and performance deterioration due to modelling errors [RR-236] 13 p2031 N84-23166
Parameterization and approximation methods in feedback theory with applications in high gain, fast sampling and cheap optimal control [RR-241] 13 p2031 N84-23167
On nonlinear systems and algebraic geometry [RR-240] 13 p2034 N84-23196
On systems with spectral cluster points and their relation to H sup p spaces [RR-235] 13 p2038 N84-23222
On the generation of infinite dimensional bilinear systems and Volterra series [RR-228] 14 p2219 N84-24318
Problem independent numerical simulation of two-phase flow in combustors 15 p2294 N84-24768
A simulation aid to gain estimates for robust tuning regulators [RR-245] 18 p2922 N84-28533
Least squares parameter estimation algorithms for nonlinear systems [RR-225] 18 p2923 N84-28536
Identification of a nonlinear difference equation model of an industrial diesel generator [RR-246] 18 p2926 N84-28559
Nonlinear perturbations of dynamical systems and nonlinear controllability [RR-249] 18 p2926 N84-28560
Some notes on optimization of confidence bands in process control based on approximate models [RR-215] 19 p3003 N84-29031
Control systems design for linear dynamic systems using simple models: Some case studies. Part 1: The single-input/single-output case [RR-247-PT-1] 20 p3171 N84-30134
The 8th European Specialist Workshop on Active Microwave Semiconductor Devices 4-6 may 1983 [AD-A142252] 20 p3177 N84-30180
A simulation technique for checking the circle criterion [RR-248] 20 p3267 N84-30733
Input-output parametric models for nonlinear systems. Part 1: Deterministic nonlinear systems [RR-251-PT-1] 20 p3283 N84-30844
Input-output parametric models for nonlinear systems. Part 2: Stochastic nonlinear systems [RR-252-PT-2] 20 p3283 N84-30845
Linear structures in bilinear systems [RR-250] 20 p3284 N84-30852
SHELL EXPLORATION AND PRODUCTION LAB., RIJSWIJK (NETHERLANDS).
A multigrid method and a combined multigrid-conjugate gradient method for elliptic problems with strongly discontinuous coefficients in general domains [PUBL-604-REV] 08 p1222 N84-17980
SHERBROOKE UNIV. (QUEBEC).
Dynamics of heat, mass and momentum transfer in an inductively coupled plasma [DE84-013499] 22 p3660 N84-33200
Plasma-particle interaction effects in induction plasma modelling under dense loading conditions [DE84-013388] 22 p3660 N84-33203
SHIRLEY (JEFF W.), COLUMBIA, S.C.
Hybrid space heating/cooling system with Trombe wall, underground venting, and assisted heat pump [DE84-000406] 04 p0559 N84-13686
SHOCK AND VIBRATION INFORMATION CENTER (DEFENSE), WASHINGTON, D. C.
The Shock and Vibration Digest, volume 15, no. 9 [AD-A134750] 08 p1168 N84-17609
The Shock and Vibration Digest, volume 15, no. 5 [AD-A131729] 10 p1505 N84-19838
The Shock and Vibration Digest, volume 15, no. 6 [AD-A131730] 10 p1505 N84-19841
The Shock and Vibration Digest, volume 15, no. 7 [AD-A132576] 10 p1505 N84-19845
The Shock and Vibration Digest, volume 15, no. 8 [AD-A133708] 10 p1506 N84-19849
The Shock and Vibration Digest, volume 15, no. 12 [AD-A138158] 10 p1506 N84-19852
The Shock and Vibration Digest, volume 15, no. 10 [AD-A136898] 10 p1506 N84-19855
The Shock and Vibration Digest, volume 15, no. 11 [AD-A137065] 10 p1507 N84-19858
The Shock and Vibration Digest, volume 16, no. 1 [AD-A137502] 10 p1507 N84-19862
The Shock and Vibration Bulletin. Part 1: Welcome, keynote address, invited papers, pyrotechnic shock, and shock testing and analysis [AD-A134452] 10 p1507 N84-19866
Technical information support for survivability 10 p1508 N84-19868
The Shock and Vibration Bulletin. Part 2: Fluid-structure dynamics and dynamic analysis [AD-A134453] 10 p1510 N84-19881
The Shock and Vibration Bulletin. Part 3: Vehicle dynamics and vibration: Test and criteria [AD-A134454] 10 p1511 N84-19893
The Shock and Vibration Bulletin. Part 4: Damping and machinery dynamics [AD-A134455] 10 p1514 N84-19908
The Shock and Vibration Digest, volume 16, no. 2 [AD-A139098] 12 p1821 N84-21874
The Shock and Vibration Digest, volume 16, no. 3 [AD-A139707] 13 p2000 N84-22976
The Shock and Vibration Digest, volume 16, no. 4 [AD-A141077] 21 p3418 N84-31676
The Shock and Vibration Digest, volume 16, no. 7 [AD-A143958] 21 p3418 N84-31679
SIEBELAIR CORP., LOS ANGELES, CALIF.
NSI-1 Squib adapter development and final test report for usage on space shuttle gas sampler valve/bottle assembly 3270 [NASA-CR-171735] 08 p1161 N84-17556
SIECOR CORP., HICKORY, N.C.
Design/Process optimization of paired computer interconnecting cable for local area networks 11 p1725 N84-21251
Recent developments in mini-unit cable 11 p1725 N84-21255
SIEGEN UNIV., (WEST GERMANY).
Performance capabilities of laser ranging sensors 24 p3904 N84-34726
SIEMENS A.G., ERLANGEN (WEST GERMANY).
Electrochemical-treeing (ECT) structures in high-voltage cable insulation [BMFT-FB-T-83-087] 02 p0215 N84-11413
Superconducting resonators [BMFT-FB-T-84-119] 23 p3831 N84-34303
SIEMENS A.G., MUNICH (WEST GERMANY).
Microelectronic bending and pressure sensors [BMFT-FB-T-83-100] 02 p0225 N84-11478
Amorphous silicon solar cells [BMFT-FB-T-83-112] 02 p0243 N84-11590
Techniques for integrated text and image processing and communication [BMFT-FB-T-83-104] 02 p0302 N84-11985
Optical multiplexers and demultiplexers for optical wavelength-division multiplex transmission systems [BMFT-FB-T-83-167] 05 p0748 N84-14912
New digital integrated Circuit (IC) concept for color TV receivers [BMFT-FB-T-83-261] 10 p1488 N84-19729
Development of microcomputer compatible power switches [BMFT-FB-T-83-277] 10 p1488 N84-19731
Reliability assurance using test structures, phase 2 [ESA-CR(P)-1827-VOL-1] 12 p1825 N84-21694
Reliability assurance using test structures, phase 3 [ESA-CR(P)-1827-VOL-2] 12 p1825 N84-21695
Development of VLSI memories [BMFT-FB-T-84-022] 16 p2560 N84-26423
The S-Web technique for high-speed growth of Si sheets 18 p2937 N84-28629
A high-speed characterization technique for solar silicon 18 p2939 N84-28641
Flat panel [BMFT-FB-T-84-048] 19 p3019 N84-29141
Optically nonlinear materials for tunable UV-lasers [BMFT-FB-T-84-133] 23 p3755 N84-33806
SIEMPELKAMP GIESSEREI K. G., KREFELD (WEST GERMANY).
Development of a process controlled pressline of enhanced technology for the production of sheet metal parts for the aircraft industry by a high pressure rubber pad system [BMFT-FB-W-83-006] 05 p0626 N84-14116
SIERRA ENERGY AND ACOUSTICS CONSULTANTS, SACRAMENTO, CALIF.
Documentation of data processing procedures and extension of Class B data analysis [SERI/STR-254-2085] 23 p3815 N84-34189
SIERRA GEOPHYSICS, INC., REDMOND, WASH.
Determination of strong ground motion in complex structures using dynamic raytracing [AD-A138559] 14 p2176 N84-24036
A real-time air dispersion modeling system [AD-A141405] 19 p3052 N84-29368
SIERRACIN CORP., SYLMAR, CALIF.
A new and unique conductive element for aircraft transparencies [AD-P003188] 17 p2590 N84-26601
The certification of polycarbonate transparencies: An appeal for reasonable requirements [AD-P003225] 17 p2596 N84-26638
SIGMA RESEARCH, INC., RICHLAND, WASH.
Representativeness of meteorological observations [DE83-017699] 04 p0568 N84-13743
SIGNAL TECHNOLOGY, INC., GOLETA, CALIF.
Processing techniques for intelligibility improvement to speech with co-channel interference [AD-A135702] 09 p1302 N84-18508
SIGNATRON, INC., LEXINGTON, MASS.
Adaptive techniques for troposcatter [AD-A142226] 19 p3008 N84-29068
Theoretical analysis of microwave propagation [AD-A143762] 23 p3731 N84-33647
SIKORSKY AIRCRAFT, STRATFORD, CONN.
Aeroelastic considerations in the design of high speed rotors 02 p0171 N84-11128
UH-60A Black Hawk engineering simulation program. Volume 1: Mathematical model [NASA-CR-166309] 19 p2968 N84-28806
Acoustic design criteria and validation 19 p3096 N84-29663
Acoustic methodology review 19 p3098 N84-29674
State of the art: Design for noise I 19 p3099 N84-29682
SIMMONDS PRECISION PRODUCTS, INC., VERGENNES, VERMONT.
Economic impact of fuel properties on turbine powered business aircraft 14 p2109 N84-23648

Study of effects of fuel properties in turbine-powered business aircraft
[NASA-CR-174627] 16 p2473 N84-25854

SIMON FRASER UNIV., BURNABY (BRITISH COLUMBIA).
Regeneration efficiency, shuttle heat loss and thermal conductivity in epoxy-composite annular gap regenerators from 4K to 80K 06 p0818 N84-15335

SIMPSON WEATHER ASSOCIATES, CHARLOTTESVILLE, VA.
Wind energy assessment for western Maryland
[PB84-184613] 20 p3237 N84-30553

SIMULA, INC., TEMPE, ARIZ.
Crashworthy cyclic control stick
[AD-A135150] 08 p1103 N84-17176
Design and development of an automatically controlled variable-load energy absorber
[AD-A142683] 20 p3128 N84-29868
Development of 2 underseat energy absorbers for application to crashworthy passenger seats for general aviation aircraft
[NASA-CR-158927] 22 p3533 N84-32367

SINGER CO., BINGHAMTON, N.Y.
Digital interface for bi-directional communication between a computer and a peripheral device
[NASA-CASE-MSC-20258-1] 18 p2916 N84-28492
A comparison of simulator procurement/program practices: Military versus commercial
[AD-P003453] 21 p3509 N84-32230
Effectiveness of multi-year and advance procurement contracts
[AD-P003462] 21 p3510 N84-32239
A laser image generation system for helicopter Nap-Of-the-Earth (NOE) flight training
[AD-P003481] 21 p3512 N84-32248
Data base management of software development
[AD-P003486] 21 p3513 N84-32253
A four-dimensional thunderstorm model for flight simulators
[AD-P003492] 21 p3514 N84-32258

SINGER CO., LANCING (ENGLAND).
Digital control loading: A microprocessor-based approach
[AD-P003483] 21 p3512 N84-32250

SINGER CO., LITTLE FALLS, N. J.
Application guidelines for quality assurance procedures for hybrid microcircuits
[AD-A131395] 02 p0214 N84-11405

SINGER CO., SUNNYVALE, CALIF.
Image generator architectures and features
[AD-P003449] 21 p3508 N84-32226
Low-Altitude Database Development Evaluation and Research (LADDER)
[AD-P003468] 21 p3511 N84-32243
Synthetic aperture radar simulation
[AD-P003474] 21 p3512 N84-32246

SINGER CO., WAYNE, N. J.
The design, simulation and developmental testing of the Space Shuttle Data Bus System
15 p2269 N84-24624

SINGLETON MATERIALS ENGINEERING LABS., KNOXVILLE, TENN.
Testing of epoxy-phenolic coating for lining carbon steel pipe
[DE84-000073] 04 p0507 N84-13322

SIPPICAN OCEAN SYSTEMS, INC., MARION, MASS.
Expendable current profiler (XCP, Mod 7)
[AD-A142936] 21 p3451 N84-31897

SIRA INST. LTD., CHISLEHURST (ENGLAND).
Feasibility study of advanced optical techniques for ocean color measurement
[MBB-R3700/292] 12 p1837 N84-21974

SKF INDUSTRIES, INC., KING OF PRUSSIA, PA.
Lubrication of engineering surfaces, phase 2
[DE84-005685] 11 p1665 N84-20863
Mechanical interactions of rough surfaces
[DE84-014097] 22 p3605 N84-32841
Solid lubrication design methodology
[NASA-CR-174690] 22 p3677 N84-33309

SKF TECHNOLOGY SERVICES, KING OF PRUSSIA, PA.
Development of a 3-d microscale topography system, phase 1
[AD-A137871] 11 p1633 N84-20677
Development of a 3-d microscale topography system, phase 2
[AD-A137872] 11 p1633 N84-20678
Lubrication of engineering surfaces, phase 2
[DE84-006344] 12 p1822 N84-21878
Development of a 3-D microscale topography system
[AD-A138809] 13 p2006 N84-23013
Mechanical interactions of rough surfaces
[DE84-008589] 20 p3198 N84-30311

SKIDAWAY INST. OF OCEANOGRAPHY, SAVANNAH, GA.
Coordination: Southeast Continental Shelf studies
[DE84-004165] 11 p1692 N84-21034
Biological processes in the water column of the South Atlantic Bight
[DE84-004336] 11 p1692 N84-21035

SLOVAK ACADEMY OF SCIENCES, TATRANSKA LOMNICA (CZECHOSLOVAKIA).
V 505 Monocerotis: New binary shell star
15 p2423 N84-25553

SMITH (JESSE B.), GARLAND, TEX.
Vehicular pressure measuring system
[DE84-003426] 07 p1008 N84-16536

SMITH-KETTLEWELL INST. OF VISUAL SCIENCES, SAN FRANCISCO, CALIF.
The mechanism of human velocity discrimination
[AD-A144527] 24 p3936 N84-34918

SMITHSONIAN ASTROPHYSICAL OBSERVATORY, CAMBRIDGE, MASS.
Solar EUV, XUV and soft X-ray telescope facilities
[NASA-CR-170602] 02 p0305 N84-11999
Radioactivites in returned lunar materials and in meteorites
[NASA-CR-171710] 02 p0308 N84-12018
High Resolution Imager (HRI) for the Roentgen Satellite (ROSAT) definition study
[NASA-CR-174598] 03 p0342 N84-12223
Theoretical studies in molecular fragmentation: Processes, energetics and diagnostics
[AD-A134008] 05 p0743 N84-14884
Information sources and services in astronomy, astrophysics, and related space sciences
05 p0762 N84-14998
Data analysis and theoretical studies for atmospheric Explorer C, D and E
[NASA-CR-175121] 06 p0878 N84-15711
Satellite-tracking and Earth dynamics research programs
[NASA-CR-173182] 07 p0962 N84-16233
Upgrading and performance of the SAO laser ranging system in Matera
[NASA-CR-173176] 07 p1009 N84-16543
Radioactivities in returned lunar materials and in meteorites
[NASA-CR-175347] 07 p1090 N84-17089
Mineralogical investigations of lunar samples and meteorites
[NASA-CR-173246] 07 p1091 N84-17093
The calculation of theoretical chromospheric models and the interpretation of solar spectra from rockets and spacecraft
[NASA-CR-175351] 07 p1092 N84-17105
Rapid magnetic energy release, its possible role in coronal heating and solar wind acceleration
[AD-A133170] 07 p1093 N84-17106
Investigation of electrodynamic stabilization and control of long orbiting tethers
[NASA-CR-170972] 08 p1115 N84-17251
A new model of the geomagnetic variation in the upper atmosphere
[AD-A135210] 08 p1187 N84-17733
Combined ultraviolet studies of astronomical sources
[NASA-CR-175234] 08 p1242 N84-18121
Theoretical studies of X-ray emission from supernova remnants and other non-equilibrium astrophysical plasmas
[NASA-CR-175394] 10 p1597 N84-20468
A large-area gamma-ray imaging telescope system
[NASA-CR-175435] 11 p1620 N84-20604
A study of a space-station-associated multiple spacecraft Michelson spatial interferometer
[NASA-CR-175438] 11 p1624 N84-20630
Development of a high resolution cylindrical crystal spectrometer for line shape and spectral diagnostics of X-rays emitted from-hot-plasmas
[DE84-005664] 11 p1661 N84-20835
Formation of chondrules by drag heating in dust-enriched environments 11 p1756 N84-21463
Mineralogic and petrologic studies of meteorites and lunar samples
[NASA-CR-175390] 11 p1758 N84-21478
The Advanced X-ray Astrophysics Facility. Observing the universe in X-rays
[NASA-EP-199] 12 p1921 N84-22517
A normal incidence, high resolution X-ray telescope for solar coronal observations
[NASA-CR-173518] 13 p2070 N84-23412
Cometary nucleus and active regions
13 p2075 N84-23450
The study of the physics of cometary nuclei
[NASA-CR-173519] 13 p2091 N84-23543
Satellite tracking and Earth dynamics research programs
[NASA-CR-173502] 14 p2112 N84-23661
Atomic hydrogen for low temperature atomic hydrogen masers and in-vacuum dissociators for VLG-11 series masers
[NASA-CR-173506] 14 p2150 N84-23880
Measurements of ionization balance parameters in atomic ions
[DE84-007884] 14 p2222 N84-24337
Investigation of dynamic noise affecting geodynamics information in a tethered subsatellite
[NASA-CR-173558] 15 p2319 N84-24923
Observational and theoretical studies of rich clusters with multiple subcondensations
[NASA-CR-173618] 16 p2575 N84-26528
Experimental studies in molecular fragmentation: Processes, energetics and diagnostics
[AD-A136648] 18 p2810 N84-27840
Measurement of H2O and other trace gases in the stratosphere using a high resolution far-infrared spectrometer at 28 km
[NASA-CR-173879] 22 p3622 N84-32951
Dynamic model of the Earth's upper atmosphere
[NASA-CR-3835] 22 p3624 N84-32965
Research relative to high energy astrophysics
[NASA-CR-173878] 22 p3678 N84-33315
Advanced X-ray Astrophysics Facility (AXAF)
[NASA-CR-171156] 23 p3698 N84-33434
Viking radio science data analysis and synthesis
[NASA-CR-173966] 23 p3843 N84-34385

SOCIAL SECURITY ADMINISTRATION, BALTIMORE, MD.
Productivity measurement in software engineering
[PB83-227330] 01 p0160 N84-11054

SOCIETA ITALIANA PER L'ESERCIZIO TELEFONICO, ROME (ITALY).
Evolution of public land mobile telephone systems in Europe 10 p1477 N84-19649
Development of the public mobile radio services in Italy 10 p1477 N84-19651

SOCIETE ANONYME BELGE DE CONSTRUCTIONS AERONAUTIQUES, BRUSSELS (BELGIUM).
Two-phase heat transport system conceptual studies
[SABCA-JPM/LN/HO5/N117] 18 p2807 N84-27822

SOCIETE ANONYME D'ETUDES ET REALISATIONS NUCLEAIRES, LIMEIL-BREVANNES (FRANCE).
Image dissector tube star trackers performance: Advantages and drawbacks as compared to those of charge transfer device star trackers
15 p2266 N84-24606

SOCIETE BELGE POUR L'INDUSTRIE NUCLEAIRE, BRUSSELS (BELGIUM).
Single phase sodium flow in complex and deformed generators 06 p0842 N84-15489
Thermohydraulic applications of liquid metals in the non-nuclear field 06 p0843 N84-15501

SOCIETE D'ETUDES ET DE SERVICES POUR SOUFFLERIES ET INSTALLATIONS AEROTHERMODYNAMIQUES, PARIS (FRANCE).
Investigation of free jets issued from small solid propellant rocket engines 08 p1121 N84-17290

SOCIETE D'ETUDES TECHNIQUES ET D'ENTREPRISES GENERALES, LEPLESSIS-ROBINSON (FRANCE).
Comparative study of image data produced by satellites with different characteristics
[ESA-CR(P)-1867] 16 p2509 N84-26103

SOCIETE DE FABRICATION D'INSTRUMENTS DE MESURE, MASSY (FRANCE).
Strapdown inertial systems for tactical missiles using mass unbalanced two-axis rate gyros
16 p2447 N84-25696
Aircraft Integrated Data Systems (AIDS) on medium size aircraft 17 p2587 N84-26582

SOCIETE EUROPEENE DE PROPULSION, SAINT-MEDARD-EN-JALLES (FRANCE).
Dissecting composite parts: A valuable aid in concept design and nondestructive control
01 p0033 N84-10207

SOCIETE EUROPEENNE DE PROPULSION, VERNON (FRANCE).
GEOS 1 and 2 in flight evaluation of the reaction control system
[SEP-TS/S/194/JM/30301/81(1)]
08 p1113 N84-17242
Industrialization of emitters modules, part 2
[SEP-TS/SE/BT/10457/83-PT-2]
16 p2475 N84-25866

SOCIETE MICROTURBO, TOULOUSE (FRANCE).
Auxilliary power systems with gas turbines
03 p0334 N84-12170

SOCIETE NATIONALE D'ETUDES ET DE CONSTRUCTION DE MOTEURS D'AVIATION, MOISSY-CRAMAYEL (FRANCE).
The relations between the numerical control of the engine and other aircraft functions
03 p0315 N84-12062
Predicting combustor efficiency and stability performances 15 p2294 N84-24765
Determination of the stable operating conditions of an axial flow compressor 16 p2490 N84-25971

SOCIETE NATIONALE D'ETUDE ET DE CONSTRUCTION DE MOTEURS D'AVIATION, PARIS (FRANCE).
Problems presented to engine builders by the recycling of metallic materials 23 p3704 N84-33482
SOCIETE NATIONALE ELF AQUITAINE, PAU (FRANCE).
Modeling of elastic wave propagation by finite difference and finite element methods 23 p3777 N84-33944
SOCIETE NATIONALE INDUSTRIELLE AEROSPATIALE, CANNES (FRANCE).
Model mission study for laser synchronization of clocks
[SNIAS-221-CA/LP] 08 p1162 N84-17569
Failure mode prediction analysis using the Reliability Information Software (RIF) 09 p1295 N84-18463
Preliminary tests on the u-shaped heat pipes of TV-SAT/TDF-1 10 p1440 N84-19403
Thermal control of the EXOSAT European satellite 10 p1441 N84-19409
Thermal control of multimission battery compartment of SPOT 10 p1445 N84-19440
Overcoming unobservability in 3-axis stabilization of satellites 15 p2267 N84-24610
Microwelding of various metallic materials under ultravacuum (A0138-10) 15 p2272 N84-24642
The front concept and profile reduction numberings
[SNIAS-832-440-102] 15 p2397 N84-25381
Study of concentration for space photovoltaic generator: Executive summary
[SNIAS-2726-CA/EM/G] 19 p2983 N84-28903
SOCIETE NATIONALE INDUSTRIELLE AEROSPATIALE, LES MUREAUX (FRANCE).
Kinetic energy accumulator applications to electric vehicles
[SNIAS-831-422-101] 07 p1088 N84-17074
Orbital propulsion module system configuration study. Volume 1: Executive summary
[S/DT/YA-25-030-VOL-1] 08 p1120 N84-17282
Orbital propulsion module system configuration study, volume 2
[S/DT/YA-25-030-VOL-2] 08 p1120 N84-17283
Guide for designing pyrotechnics systems for payloads on manned or unmanned vehicles
[SNIAS-NT-2-01(0)] 12 p1803 N84-21757
Description of an electromagnetic compatibility laboratory
[SNIAS-832-422-103] 15 p2321 N84-24933
Quality control in large systems development phase
[SNIAS-832-422-102] 15 p2346 N84-25074
Multipath pyrotechnic relay: Conception with numerical simulations and experimental validation
[SNIAS-832-422-101] 16 p2474 N84-25855
Batteries and accumulators for future Aerospatiale projects
[SNIAS-841-422-111] 21 p3355 N84-31282
Combustion of redox mixes in the Through Bulkhead Initiator (TBI) configuration
[SNIAS-841-422-115] 21 p3363 N84-31332
Comparison of simulation and measurement techniques for continuous waves and pulses
[SNIAS-841-422-103] 21 p3388 N84-31501
A technique for simulating conduction interference created by electromagnetic pulses (EMP)
[SNIAS-841-422-104] 21 p3388 N84-31502
Calculation of low altitude electromagnetic pulses in the first moments
[SNIAS-841-422-105] 21 p3388 N84-31503
Calculation of high altitude electromagnetic pulses due to X and gamma photons
[SNIAS-841-422-106] 21 p3388 N84-31504
Coupling of electromagnetic pulses created by a nuclear explosion on the ground with overhead power cables
[SNIAS-841-422-107] 21 p3388 N84-31505
Calculation of electromagnetic fields on the surface of and inside cavities
[SNIAS-841-422-108] 21 p3388 N84-31506
Calculation of currents induced in a network of overhead power lines by an electromagnetic impulse
[SNIAS-841-422-109] 21 p3388 N84-31507
Test means and methods linked to experiments on systems
[SNIAS-841-422-110] 21 p3389 N84-31508
Text processing in the writing of contracts
[SNIAS-841-422-102] 21 p3519 N84-32297
SOCIETE NATIONALE INDUSTRIELLE AEROSPATIALE, MARIGNANE (FRANCE.)
Estimated analysis of the aeroelastic behavior of tail rotors 02 p0172 N84-11129
Experimental modal analysis
[SNIAS-832-210-110] 16 p2440 N84-25655
System concepts for helicopter air-to-air combat
[SNIAS-832-210-102] 16 p2448 N84-25705
The development of the Navy variant of the Dauphin 2 helicopter
[SNIAS-832-210-106] 16 p2448 N84-25706
Aerospatiale's experience on helicopter flight in icing conditions
[SNIAS-832-210-107] 16 p2448 N84-25707
A new method of analysis of composite structures
[SNIAS-832-210-105] 16 p2461 N84-25773
Nondestructive testing of composite structures
[SNIAS-832-210-108] 16 p2500 N84-26045
The SARIB vibration absorber
[SNIAS-832-210-104] 16 p2502 N84-26058
Single-pilot IFR flights and operations
[SNIAS-832-210-103] 16 p2552 N84-26374
Towards a better understanding of helicopter external noise
[SNIAS-832-210-113] 16 p2554 N84-26388
SOCIETE NATIONALE INDUSTRIELLE AEROSPATIALE, PARIS (FRANCE).
Value and competition
[SNIAS-832-501-101] 15 p2416 N84-25504
The industry's materials: SNIAS and general conditions of its environment
[SNIAS-832-502-101] 16 p2475 N84-25865
A new concept for guiding missiles with an application to the ground-air system 21 p3350 N84-31253
Contribution of the industry to a better adaptation of helicopters to military requirements
[SNIAS-841-210-102] 23 p3687 N84-33367
SOCIETE NATIONALE INDUSTRIELLE AEROSPATIALE, SAINT-MEDARD-EN-JALLES (FRANCE).
Industrial applications for plasma torches
[SNIAS-832-430-101] 15 p2305 N84-24829
Multidirectional composites in ballistic and aerospace vehicles
[SNIAS-832-430-102] 16 p2458 N84-25759
SOCIETE NATIONALE INDUSTRIELLE AEROSPATIALE, SURESNES (FRANCE).
The influence of fabrication flows on the static and dynamic behavior of structures made of carbon-resin composites 01 p0034 N84-10215
Cracking threshold on steel used in aeronautical construction: Influence of the environment
[SNIAS-832-551-101] 16 p2465 N84-25797
Influence of the environment on the application and drying quality of organic paints
[SNIAS-832-551-102] 16 p2471 N84-25833
Modern structure materials: Present situation and evolution perspectives
[SNIAS-841-551-103] 21 p3328 N84-31118
Investigation of damage and damage propagation in static and fatigue tests on carbon epoxy composites
[SNIAS-841-551-102] 21 p3358 N84-31298
Calorimetric and thermogravimetric analysis applied to industrial polymers
[SNIAS-841-551-101] 21 p3372 N84-31399
SOCIETE NATIONALE INDUSTRIELLE AEROSPATIALE, TOULOUSE (FRANCE).
Aerospatial'es approach to the study of flutter at the design stage of the project 02 p0170 N84-11118
The 310 airbus test in the ONERA wind tunnel: Flight-wind tunnel comparison 14 p2098 N84-23587
A vectorized finite element method for computation of transonic tridimensional potential flows
[SNIAS-832-111-105] 15 p2257 N84-24555
Airbus A-310. Tests in the ONERA's F1 wind tunnel: Comparison of flight/wind tunnel
[SNIAS-832-111-110] 15 p2257 N84-24556
Statistical approach to damage tolerance assessment
[SNIAS-832-111-112] 15 p2260 N84-24575
Data exchange and transfer structures
[SNIAS-832-111-103] 15 p2391 N84-25347
Solid modeling at SNIAS
[SNIAS-832-111-106] 15 p2391 N84-25348
SNIAS's experience and work in the geometric modeling area
[SNIAS-832-111-107] 15 p2391 N84-25349
Renovation of the Helice
[SNIAS-832-111-109] 16 p2448 N84-25703
Carbon structures on the wing of the regional transport plane ATR-42
[SNIAS-832-111-113] 16 p2448 N84-25704
Full Authority Digital Engine Control (FADEC)
[SNIAS-832-111-101] 16 p2450 N84-25714
Predicting the delamination of a multistage composite
[SNIAS-832-111-102] 16 p2461 N84-25771
Composite materials: The user and the producer
[SNIAS-832-111-108] 16 p2461 N84-25772
Implementation and performance of algorithms on a vector calculator
[SNIAS-832-111-104] 18 p2920 N84-28519
SOFIA UNIV. (BULGARIA).
Removal of ambiguity of two-dimensional gray level variance spectra obtained by processing ship radar images of ocean waves 23 p3772 N84-33909
SOFTCOM SYSTEMS, INC., HUNTSVILLE, ALA.
SPAR improved structure-fluid dynamic analysis capability, phase 2
[NASA-CR-171078] 19 p3021 N84-29153
SOFTECH, INC., WALTHAM, MASS.
Integrated Computer-Aided Manufacturing (ICAM) architecture part 3. Volume 1: Architecture part 3: Accomplishments
[AD-A134249] 07 p1055 N84-16829
Ada compiler validation summary report: ROLM Ada compiler, version 4.42 V-002
[AD-A136732] 10 p1557 N84-20199
Ada compiler validation report: Western digital STC-Ada compiler, version C1.OM V-004
[AD-A136738] 10 p1557 N84-20200
Ada compiler validation summary report: NYU Ada/Ed, version 19.7 V-001
[AD-A136759] 10 p1557 N84-20201
Ada compiler validation summary report: ROLM Ada compiler, version 4.52 V-003
[AD-A136760] 10 p1557 N84-20202
Integrated Computer-Aided Manufacturing (ICAM) architecture. Part 3, volume 2: Procedures
[AD-A137422] 10 p1563 N84-20240
Ada (Trademark) primer
[AD-A140660] 17 p2753 N84-27471
Ada (Trademark) case studies II
[AD-A140818] 17 p2753 N84-27475
Introduction to Ada, a higher order language. L103 teacher's guide
[AD-A141848] 19 p3078 N84-29531
Ada (registered trademark) technical overview. L102 teacher's guide
[AD-A141862] 19 p3078 N84-29532
The US Army model Ada (trademark) training curriculum
[AD-P003415] 20 p3269 N84-30747
Configuration management with the Ada (trademark) language
[AD-P003416] 20 p3269 N84-30748
The CECOM summer faculty research program
[AD-P003421] 20 p3270 N84-30753
Integrated Computer-Aided Manufacturing (ICAM) architecture, part 3. Volume 5: Composite function model of manufacture product (MFG0)
[AD-A142337] 20 p3272 N84-30766
Ada (Registered trademark) training curriculum. Software engineering for managers. M101: Teachers exercise guide
[AD-A142425] 20 p3272 N84-30767
Ada (registered trademark) training curriculum. Ada (registered trademark) for software managers, L201. Teachers' guide: Volume 1
[AD-A142430] 20 p3272 N84-30768
Ada (registered trademark) training curriculum. Ada (registered trademark) for software managers, L201. Teachers guide: Volume 2
[AD-A142431] 20 p3272 N84-30769
Ada (Registered trademark) training curriculum. Software engineering for managers. M101: Teachers guide
[AD-A142432] 20 p3272 N84-30770
Integrated Computer-Aided Manufacturing (ICAM) architecture. Part 3, volume 4: Composite information model of design product (DES 1)
[AD-A142447] 20 p3273 N84-30774
The evolution of the JOVIAL/J73 language from definition to use
[AD-P003518] 21 p3329 N84-31122
Ada (Trademark) training considerations
[AD-P003560] 21 p3335 N84-31164
Ada (trade name) orientation for managers L101 teacher's guide
[AD-A141846] 21 p3465 N84-31968
Integrated Computer-Aided Manufacturing (ICAM) architecture. Part 3, Volume 6: Composite information model of 'Manufacture product' (MFG1)
[AD-A143072] 21 p3466 N84-31973
ADA (trademark) training curriculum. Programming methodology m203 teacher's guide
[AD-A143581] 22 p3641 N84-33082
ADA (trademark) training curriculum. Basic ADA programming l202 teacher's guide, volume 1
[AD-A143584] 22 p3641 N84-33083
ADA (trademark) training curriculum. Basic ADA programming l202 teacher's guide, volume 2
[AD-A143585] 22 p3641 N84-33084
US Army Ada training curriculum. Curriculum catalog, 1984
[AD-A144188] 24 p3945 N84-34978
Ada training curriculum. Introduction to software engineering, M102: Teachers' guide
[AD-A144236] 24 p3945 N84-34980
Ada training curriculum. Introduction to software engineering, M102. Teacher's guide: Exercises
[AD-A144237] 24 p3945 N84-34981
Ada (trademark) training curriculum. Software engineering methodologies M201 teacher's workbook
[AD-A144240] 24 p3945 N84-34982

Ada (trademark) training curriculum. Software engineering methodologies m201 teacher's guide, volume 1
[AD-A144256] 24 p3946 N84-34984
Ada (trademark) training curriculum. Software engineering methodologies M201 teacher's guide, volume 2
[AD-A144257] 24 p3946 N84-34985
Ada (trademark) training curriculum. Software engineering methodologies M201 teacher's guide, volume 3
[AD-A144258] 24 p3946 N84-34986
Integrated Computer-Aided Manufacturing (ICAM) architecture, part 3. Volume 7: MFG01 glossary
[AD-A144426] 24 p3947 N84-34991
Ada (trademark) training curriculum. Advanced Ada Topics 1305, teacher's guide exercises
[AD-A144497] 24 p3947 N84-34993
Ada (trademark) training curriculum. Advanced Ada Topics 1305, teacher's guide exercises, volume 1
[AD-A144498] 24 p3947 N84-34994
Ada (trademark) training curriculum. Advanced Ada Topics 1305, teacher's guide exercises, volume 2
[AD-A144499] 24 p3947 N84-34995
Ada training curriculum. Advanced Ada topics l305 teacher's guide exercises, volume 3
[AD-A144500] 24 p3947 N84-34996

SOFTLAB G.M.B.H., MUNICH (WEST GERMANY).
The project library PLUS: A general overview
05 p0724 N84-14751

SOFTWARE AND ENGINEERING ASSOCIATES, INC., SANTA ANA HEIGHTS, CALIF.
Improved Two-Dimensional Kinetics (TDK) computer program
[NASA-CR-170922] 03 p0346 N84-12248

SOFTWARE ENGINEERING ASSOCIATES, INC., TORRANCE, CALIF.
Object code optimization in a standard compiler
[AD-P003520] 21 p3329 N84-31124

SOHAR, INC., LOS ANGELES, CALIF.
Microcomputers: Introduction to features and uses
[PB84-178821] 17 p2750 N84-27456
Fault tolerant software modules for SIFT
[NASA-CR-165874] 21 p3463 N84-31955

SOHIO PETROLEUM CO., CLEVELAND, OHIO.
Satellite elevation magnetic and gravity models of major South American plate tectonic features
15 p2355 N84-25131

SOHIO PETROLEUM CO., SAN FRANCISCO, CALIF.
Vectorization of a penalty function algorithm for well scheduling 10 p1562 N84-20233

SOLAR ENERGY TECHNOLOGY, INC., BEDFORD, MASS.
Reflector antennas with low sidelobes, low cross polarization, and high aperture efficiency
[NASA-CR-174670] 21 p3383 N84-31464

SOLAR POWER CORP., WOBURN, MASS.
Solar photovoltaic powered refrigerators/freezers for medical use in remote geographic locations
[NASA-CR-168268] 15 p2361 N84-25163

SOLAR STEAM, INC., TACOMA, WASH.
Continuing research at Solar Steam, Incorporated
18 p2873 N84-28238

SOLAR THERMAL TEST FACILITIES, ALBUQUERQUE, N. MEX.
Ceramic heat exchanger design methodology
[DE84-010581] 21 p3370 N84-31385

SOLAR TURBINES INTERNATIONAL, SAN DIEGO, CALIF.
Small auxiliary power unit design constraints
03 p0334 N84-12172
Experimental study of the operating characteristics of premixing-prevaporizing fuel/air mixing passages
[NASA-CR-168279] 05 p0630 N84-14143
Heat/mass flow enhancement design for a metal hydride assembly, phase 2
[DE84-007182] 13 p1990 N84-22920
High temperature metallic recuperator
[PB84-207860] 22 p3564 N84-32575
Erosion mechanisms of metals
[AD-A144194] 24 p3884 N84-34605

SOLAREX CORP., ROCKVILLE, MD.
Process Research On Polycrystalline Silicon Material (PROPSM)
[NASA-CR-173754] 18 p2869 N84-28213
Process Research On Polycrystalline Silicon Material (PROPSM)
[NASA-CR-173753] 18 p2869 N84-28214
Is structural interface standardization beneficial?
22 p3585 N84-32702
Process Research of Poycrystalline Silicon Material (PROPSM)
[NASA-CR-173934] 23 p3788 N84-34026
Process Research of Polycrystalline Silicon Material (PROPSM)
[NASA-CR-173935] 23 p3789 N84-34033

SONALYSTS, INC., WATERFORD, CONN.
Communications network design and costing model technical manual
[NASA-CR-168236] 05 p0666 N84-14376
Communications network design and costing model programmers manual
[NASA-CR-168237] 05 p0666 N84-14377
Communications network design and costing model users manual
[NASA-CR-168238] 05 p0666 N84-14378

SONEX RESEARCH, INC., ANNAPOLIS, MD.
NAHBE (Naval Academy Heat Balanced Engine) m151 retrofit evaluation
[AD-A133475] 06 p0853 N84-15559

SONICRAFT, INC., CHICAGO, ILL.
Atmospheric transmittance/radiance computer code FASCOD2
[AD-A130241] 01 p0147 N84-10964
Advanced edit system
[AD-A134952] 08 p1213 N84-17913

SONOMA TECHNOLOGY, INC., SANTA CRUZ, CALIF.
Characterization of reactants, reaction mechanisms and reaction products leading to extreme acid rain and acid aerosol conditions in southern California
[PB83-252825] 04 p0561 N84-13697

SOUTH AFRICAN ASTRONOMICAL OBSERVATORY, SUTHERLAND.
Correlated errors in a functional relationship: Estimation of the color term in the Period Luminosity-Color (PLC) for Long Magellanic Clouds (LMC) Cepheids
09 p1411 N84-19228

SOUTH AFRICAN BUREAU OF STANDARDS, PRETORIA.
Management input in quality 08 p1168 N84-17602

SOUTH AFRICAN COPPER DEVELOPMENT ASSOCIATION (PTY) LTD., MARSHALLTOWN.
Surface coating systems for copper and copper alloys
06 p0815 N84-15311

SOUTH AFRICAN INST. FOR PRODUCTION ENGINEERING, PRETORIA.
Fourth Seminar on Efficient Metal Forming and Mechining
[ISBN-0-7988-2556-1] 09 p1292 N84-18438
Cold forming and upsetting in the fastener industry
09 p1293 N84-18445
Broaching today 09 p1293 N84-18450

SOUTH AFRICAN INST. OF CIVIL ENGINEERS, PRETORIA.
Symposium on Computers in Construction
[CSIR-S-285] 05 p0717 N84-14695
Computer simulation of construction operations
05 p0718 N84-14704
Is critical path planning the answer
05 p0718 N84-14705

SOUTH AFRICAN INST. OF REFRIGERATION AND AIR CONDITIONING, PRETORIA.
Frigair 1983. Papers
[CSIR-S-281] 11 p1639 N84-20717
Design and application of two stage evaporative cooling systems 11 p1640 N84-20720
Scale prevention and removal by hydrodynamic fluid treatment 11 p1640 N84-20721
Free cooling: A total HVAC design concept
11 p1640 N84-20723
Computer control of refrigerating plants
11 p1640 N84-20724
Analysis of structural storage air conditioning systems
11 p1640 N84-20725

SOUTH AUSTRALIAN INST. OF TECH., ADELAIDE.
Infrared characteristics of gas plumes
[AD-A131796] 03 p0349 N84-12269

SOUTH CAROLINA UNIV., COLUMBIA.
Fourier shape analysis: A multivariate pattern recognition approach
[AD-P003118] 16 p2532 N84-26259
On the damped nonlinear equation w sub tt = sigma (w) sub xx gamma w sub t
[AD-A142263] 19 p3008 N84-29070

SOUTH DAKOTA SCHOOL OF MINES AND TECHNOLOGY, RAPID CITY.
Characterization of humidity sensors and physical properties of h20
[AD-A139024] 13 p1993 N84-22938

SOUTH DAKOTA STATE UNIV., BROOKINGS.
Metabolic characteristics of post-exercise ketosis: The protective effects of training 10 p1549 N84-20152

SOUTHAMPTON UNIV. (ENGLAND).
Performance measurements of a pilot superconducting solenoid model core for a wind tunnel magnetic suspension and balance system
[NASA-CR-172243] 03 p0338 N84-12192
Prediction of dynamic effects due to vehicles crossing military bridges
[ISVR-TR-120] 03 p0391 N84-12548
The dynamic in plane response at the centre of a rotating elastic disc due to oscillatory in plane forces at the rim
[ISVR-TR-121] 04 p0548 N84-13613
A review of source location/assessment techniques
06 p0767 N84-15029
Shock associated noise 06 p0767 N84-15030
Ion measurements on GEOS using a negatively biased sensor on a positively charged spacecraft
08 p1117 N84-17263
The status of analytical preparation for 2-dimensional testing at high transonic speeds in the University of Southampton transonic self-streamlining wind tunnel
[NASA-CR-3785] 11 p1602 N84-20494
The design and operational development of self-streamlining 2-dimensional flexible walled test sections
[NASA-CR-172328] 13 p1926 N84-22534
Heat/mass flow enhancement design for a metal hydride assembly, phase 2
[DE84-007182] 13 p1990 N84-22920
Electrochemistry at the molecular level
[AD-A140070] 15 p2287 N84-24723
Techniques and instrumentation for the measurement of transient sound energy flux
[ISVR-TR-122A] 15 p2404 N84-25427
Hypersonic static and dynamic stability. Part 1: Equations of motion and flight dynamics
16 p2441 N84-25663
Hypersonic static and dynamic stability. Part 2: Inviscid prediction methods for unsteady hypersonic flow
16 p2442 N84-25664
Hypersonic static and dynamic stability. Part 3: Experimental techniques, experimental results and viscous effects 16 p2442 N84-25665
Computation of imaginary-side pressure distributions over the flexible walls of the test section insert for the 0.3-M transonic cryogenic tunnel
[NASA-CR-172363] 18 p2785 N84-27678
Activities report of the Institute of Sound and Vibration Research 19 p3100 N84-29693
Audiometric configurations and repeatability in noise-induced hearing loss
[ISVR-TR-123] 20 p3260 N84-30694
Engineering changes to the 0.1m cryogenic wind tunnel at Southampton University
[NASA-CR-172430] 22 p3538 N84-32397
Periodicity searches with IUE: Studies of pulsating galactic X-ray sources 24 p3981 N84-35218

SOUTHEASTERN CENTER FOR ELECTRICAL ENGINEERING EDUCATION, INC., ST. CLOUD, FLA.
USAF/SCEEE summary faculty research program, research reports, volume 1
[AD-A130769] 01 p0157 N84-11032
USAF/SCEEE summary faculty research program (1982) research reports, volume 2
[AD-A130770] 03 p0457 N84-13009
Basic EMC technology advancement for c3 systems. Volume 2A: Macromodels of op amps for CADA applications
[AD-A133661] 05 p0675 N84-14435
The United States Air Force graduate student summer support program, 1983. Management report
[AD-A139363] 14 p2245 N84-24483
United States Air Force summer faculty research program, 1983. Program management report
[AD-A139366] 14 p2245 N84-24484
United States Air Force summer faculty research program, 1983, volume 1
[AD-A139403] 14 p2245 N84-24485
United States Air Force summer faculty research program, 1983, volume 2
[AD-A139404] 14 p2246 N84-24486
Basic EMC (electromagnetic compatibility) technology advancement for c3 systems. Volume 1: A nonlinear macromodel of the bipolar integrated circuit operational amplifier for electromagnetic interference analysis
[AD-A141369] 19 p3004 N84-29040

SOUTHERN CONNECTICUT STATE COLL., NEW HAVEN.
Analysis of permafrost depths on Mars
15 p2426 N84-25569

SOUTHERN METHODIST UNIV., DALLAS, TEX.
Scanning laser Doppler anemometer and its application in turbulent separated flow
[AD-A130923] 01 p0084 N84-10548
Robust ABLUE's (Asymptotically Best Linear Unbiased Estimators) for location and scale parameter estimation
[AD-A130752] 01 p0132 N84-10867
A note on optimal and robust spacing selection
[AD-A130427] 01 p0136 N84-10888
Minimum distance estimation of mixture model parameters: Asymptotic results and simulation comparisons with maximum likelihood
[AD-A130426] 01 p0136 N84-10889
Site-dependent inelastic response spectra
06 p0862 N84-15620

Theoretical and empirical terrestrial heat flow studies
06 p0875 N84-15896

Estimation of parameters in linear structural relationships: Sensitivity to the choice of the ratio of error variances
[NASA-CR-171756] 09 p1372 N84-18958

Center of Excellence for Applied Mathematical and Statistical Research in support of development of multicrop production monitoring capability
[E84-10062] 10 p1520 N84-19953

Crop area estimation based on remotely-sensed data with an accurate but costly subsample
[E84-10087] 10 p1521 N84-19958

Estimation of discontinuous coefficients in parabolic systems: Applications to reservoir simulation
[NASA-CR-172301] 10 p1568 N84-20273

An experimental study of the properties of surface pressure fluctuations in strong adverse pressure gradient turbulent boundary layers
[NASA-CR-175410] 11 p1601 N84-20488

Sensor noise and Kalman filter for aided inertial navigation system
[AD-A143360] 22 p3534 N84-32372

Statistical analyses for nondestructive testing
[AD-A143668] 23 p3758 N84-33821

SOUTHERN RESEARCH INST., BIRMINGHAM, ALA.

Mathematical model of electrostatic precipitation for the Texas Instruments Programmable 59 calculator
[PB83-261669] 04 p0560 N84-13695

Mathematical model of electrostatic precipitation (revision 3). Volume 1: Modeling and programming
[PB84-212679] 22 p3549 N84-32469

Mathematical model of electrostatic precipitation (revision 3). Volume 2: User's manual
[PB84-212687] 22 p3549 N84-32470

SOUTHERN SCIENCE, DUNEDIN, FLA.

A study of research needs and priorities in radioactive waste management
[DE84-009045] 20 p3298 N84-30946

SOUTHWEST RESEARCH INST., SAN ANTONIO, TEX.

Research on fire-resistant diesel fuel flammability mitigation mechanisms
[AD-A130743] 01 p0052 N84-10337

Thin film strain transducer
[US-PATENT-APPL-SN-526770] 03 p0376 N84-12448

Magnetospheric plasma studies using data from the dynamics high and low altitude plasma instruments
[AD-A131793] 03 p0408 N84-12670

Intumescent reaction mechanisms: An analytic model
[AD-A132586] 04 p0491 N84-13225

Investigation of sources, properties and preparation of distillate test fuels
[NASA-CR-168227] 04 p0508 N84-13332

Middle distillate fuel stability characteristics: A review
[AD-A132156] 04 p0509 N84-13337

Alternative fuels for medium-speed diesel engines (AFFMSDE) program: Slurries, emulsions, and blended-fuel extenders; cylinder wear measurements, staged injection
[DE84-000524] 04 p0510 N84-13340

Characterization and analysis of cavity development during creep of ceramics at elevated temperature
[DE84-003113] 07 p0979 N84-16345

Heavy-duty diesel emissions as a function of alternate fuels
[PB84-120716] 09 p1291 N84-18426

Engine-transmission angular-contact ball thrust bearing endurance tests
[AD-A136264] 09 p1325 N84-18655

Compressive strength and damage mechanisms in partially stabilized zirconia
[AD-A137513] 10 p1459 N84-19529

The study and modeling of high temperature fatigue crack propagation in austenitic stainless steel
[DE84-005391] 10 p1462 N84-19552

After-test engine inspection of US Army administrative and light-tactical vehicles operated on gasohol and unleaded gasoline
[AD-A137312] 10 p1502 N84-19817

Heavy-duty fuel economy program phase 5: Investigation of a heavy-duty 3-way catalyst system
[PB84-135722] 11 p1639 N84-20715

Study of the effects of metallurgical factors on the growth of fatigue microcracks
[AD-A137954] 11 p1669 N84-20888

Fuel property effects on Navy aircraft fuel systems
14 p2109 N84-23647

U.S. Army alternative gas-turbine fuels research: MERADCOM
15 p2290 N84-24739

Study of the influence of metallurgical factors on fatigue and fracture of aerospace structural materials
[AD-A140659] 17 p2623 N84-26789

Revision and experimental verification of the hazard assessment computer system models for spreading, movement, dissolution, and dissipation of insoluble chemicals spilled onto water, volume 1
[AD-A140635] 17 p2724 N84-27337

Low frequency electric and magnetic noise along the auroral field lines
[NASA-CR-173641] 17 p2727 N84-27358

Thin film strain transducer
[NASA-CASE-WLP-10055-1] 18 p2838 N84-28015

Development of carbon slurry fuels for transportation (hybrid fuels, phase 2)
[NASA-CR-174659] 19 p2992 N84-28980

Effects of micronic filtration on turbine engine lubricant deposition
[AD-A141802] 19 p2999 N84-29007

Effects of wear metal on lubricant deposition
[AD-A142027] 19 p2999 N84-29008

Thickener/fluid interaction in lubricating greases
[AD-A142276] 20 p3161 N84-30076

High-temperature lubricants for minimum-cooled diesel engines
[AD-A142426] 20 p3162 N84-30078

A new approach to the evaluation of the effects of stress state and interfacial properties on the behavior of advanced metal matrix composites
[AD-A143083] 21 p3357 N84-31294

A research study of the assessment of escape impairment by irritant combustion gases in postcrash aircraft fires
[FAA-CT-84-16] 22 p3533 N84-32366

Engine wear with methanol fuel in a nitrogen-free environment
[AD-A143530] 22 p3604 N84-32833

Development of accelerated fuel-engine qualification procedures
[AD-A143845] 23 p3693 N84-33406

Evaluation of the effects of stress state and interfacial properties on the behavior of advanced metal matrix composites
[AD-A143911] 23 p3711 N84-33525

Storm severity detecion (RF)
24 p3927 N84-34857

SOUTHWEST TEXAS STATE UNIV., SAN MARCOS.

Project FIRST (Faculty Information and Research Service for Texas) technical description of project and results
[PB84-161629] 14 p2248 N84-24501

Synthesis of resin polymers for chemical agent defense
[AD-A141035] 18 p2818 N84-27892

SPACE AND MISSILE TEST CENTER, PATRICK AFB, FLA.

Range safety display system upgrade
[AD-A133789] 05 p0642 N84-14225

Eastern Space and Missile Center (ESMC) capability
[AD-A133788] 05 p0642 N84-14226

Pacific barrier radar 3 (PACBAR 3)
[AD-A133790] 05 p0668 N84-14392

SPACE COMMUNICATIONS CO., GAITHERSBURG, MD.

Study of a Tracking and Data Acquisition System (TDAS) in the 1990's
[NASA-CR-173262] 10 p1433 N84-19368

Study of a tracking and data acquisition system for the 1990's. Volume 1: User community characteristics
[NASA-CR-175194] 10 p1433 N84-19370

Study of a tracking and data acquisition system for the 1990's. Volume 3: TDAS Communication Mission Model
[NASA-CR-175195] 10 p1434 N84-19371

SPACE ORDNANCE SYSTEMS, INC., CANYON COUNTRY, CALIF.

Feasibility demonstration of booster cross-over system for 3 1/2 inch SRB/MLP frangible nut system
[NASA-CR-170895] 01 p0029 N84-10182

SPACE ORDNANCE SYSTEMS, INC., SAUGUS, CALIF.

Pyrotechnic clear path egress system for the T-38 trainer aircraft
[AD-P003184] 17 p2589 N84-26597

SPACE POWER, INC., SUNNYVALE, CALIF.

Thermionic conversion reactor technology assessment
[DE84-007611] 22 p3655 N84-33168

SPACE SCIENCES, INC., MONROVIA, CALIF.

Mass spectrometric decomposition studies on several azido and nitrato polymers, thermal plasticizers and novel nitramines
[AD-A134636] 08 p1137 N84-17398

SPACE TELESCOPE SCIENCE INST., BALTIMORE, MD.

Clustering properties of stars outside the galactic disk
09 p1408 N84-19198

Astronomical and statistical algorithms used in the Space Telescope guide star selection system
09 p1409 N84-19206

Near infrared observations of the visual reflection nebulae NGC 7023, NGC 2023 and NGC 2068
16 p2570 N84-26497

The near infrared polarization of NGC 7023
16 p2572 N84-26508

PDS concepts and astronomical applications: An overview
18 p2840 N84-28029

The PDS for space telescope guide star selection system: Status and improvements
18 p2840 N84-28032

Storage, retrieval, and analysis of ST data
18 p2843 N84-28051

Near infrared observations of the visual reflection nebulae NGC 1023, NGC 2023, and NGC 2068
18 p2948 N84-28695

The near infrared polarization of NGC 7023
18 p2950 N84-28707

On detecting diffuse ultraviolet radiation of cosmological origin
[PREPRINT-10] 23 p3840 N84-34382

Ultraviolet studies of the interstellar medium
24 p3970 N84-35137

SPAR AEROSPACE LTD., STE-ANNE-DE-BELLEVUE (QUEBEC).

Design of an orbital heating simulator using IR techniques
24 p3864 N84-34487

SPAR AEROSPACE LTD., TORONTO (ONTARIO).

Getaway Special competition: Overview
18 p2799 N84-27764

SPECIAL METALS CORP., NEW HARTFORD, N.Y.

Characterization of macrosegregation in ESR IN-718
24 p3882 N84-34598

SPECTRA RESEARCH SYSTEMS, INC., HUNTSVILLE, ALA.

Bearing tester data compilation, analysis and reporting and bearing math modeling, volume 1
[NASA-CR-171039] 15 p2340 N84-25046

SPECTRAL SCIENCES, INC., BURLINGTON, MASS.

Application of the direct simulation Monte Carlo method to mass spectrometer flow
[AD-A142326] 19 p3094 N84-29647

LWIR signature from EXCEDE SPECTRAL
[AD-A144169] 24 p3860 N84-34483

SPECTROLAB, INC., SYLMAR, CALIF.

Non-noble metal based metallization systems
12 p1839 N84-21993

Panel fabrication utilizing GaAs solar cells
19 p3048 N84-29337

Improved techniques of parallel gap welding and monitoring
19 p3048 N84-29341

Development of metallization process
[NASA-CR-173956] 23 p3786 N84-34014

Design, analysis and test verification of advanced encapsulation systems
[NASA-CR-173955] 23 p3787 N84-34016

Development of metallization process: FSA project, cell and module formation research area
[NASA-CR-173951] 23 p3788 N84-34022

Design, analysis and test verification of advanced encapsulation systems
[NASA-CR-173941] 23 p3789 N84-34028

Development of metallization process. FSA project, cell and module formation research area
[NASA-CR-173959] 23 p3789 N84-34030

Development of metallization process
[NASA-CR-173943] 23 p3789 N84-34031

Development of metallization process: FSA project, cell and module formation research area
[NASA-CR-173996] 24 p3884 N84-34609

SPECTRON DEVELOPMENT LABS., INC., COSTA MESA, CALIF.

Development and implementation of advanced diagnostic techniques
11 p1608 N84-20528

Temperature, concentration, and size measurements in turbulent reactive flows
13 p1943 N84-22633

SPECTRON DEVELOPMENT LABS, INC., SEATTLE, WASH.

Investigation of the Rayleigh critical angle phenomenon for the characterization of surface properties
[AD-A131530] 03 p0360 N84-12340

SPECTRUM TECHNOLOGY, INC., VIRGINIA BEACH, VA.

Single pilot IFR accident data analysis
03 p0311 N84-12031

SPEECH COMMUNICATION RESEARCH LAB., LOS ANGELES, CALIF.

Preliminary analysis of automatic speech recognition and synthesis technology
[AD-A138976] 13 p1983 N84-22877

SPELMAN COLL., ATLANTA, GA.

Numerical solutions of non-uniquely solvable integral equations using finite rank modifications
[AD-A142149] 19 p3089 N84-29610

SPENCERTOWN GEO-SOLAR ASSOCIATES, N.Y.

Ground-coupled heat pump demonstration
[PB84-156223] 14 p2135 N84-23797

SPERRY CORP., CLEARWATER, FLA.
Radio frequency distribution assembly, operations and maintenance manual
[AD-A143664] 23 p3731 N84-33649
SPERRY FLIGHT SYSTEMS, PHOENIX, ARIZ.
Conceptual design of a noncontacting power transfer device for the ASPS Vernier system
[NASA-CR-172238] 22 p3581 N84-32677
SPERRY GYROSCOPE CO., CLEARWATER, FLA.
Radio frequency distribution assembly
[AD-A143575] 22 p3577 N84-32658
SPERRY GYROSCOPE CO., GREAT NECK, N. Y.
BANDIT in NASTRAN 06 p0858 N84-15591
SPERRY RAND CORP., BLUE BELL, PA.
Future developments of a hybrid CAD/CAM system
12 p1890 N84-22310
SPERRY RAND CORP., GREAT NECK, N. Y.
A compact fully overlapping subarray antenna
[AD-P003407] 19 p3015 N84-29111
SPERRY RAND CORP., PHOENIX, ARIZ.
Performance validation of Sperry Flight Management Systems (FMS) 17 p2587 N84-26580
SPERRY RAND CORP., ST. PAUL, MINN.
Magneto-optic garnet and liquid crystal optical switches 12 p1905 N84-22410
SPERRY RAND RESEARCH CENTER, SUDBURY, MASS.
S-I-S mm-wave mixers and detectors
[AD-A134762] 08 p1235 N84-18074
SPERRY RESEARCH CENTER, SUDBURY, MASS.
Multipole monolithic Surface Acoustic Wave (SAW) resonator filters
[AD-A136123] 09 p1309 N84-18561
Tunneling through amorphous silicon barriers
[AD-A135666] 09 p1395 N84-19110
Optically induced changes in the Faraday rotation spectra of the ferromagnetic semiconductor CdCr/sub 2/Se/sub 4 14 p2233 N84-24398
Sperry low temperature geothermal conversion system, phase 1 and phase 2. Volume 6: Economic studies
[DE84-008039] 15 p2363 N84-25181
Sperry Low Temperature Geothermal Conversion System, Phase 1 and Phase 2. Volume 3: Systems description
[DE84-008042] 18 p2876 N84-26260
SPERRY SYSTEMS MANAGEMENT, HUNTSVILLE, ALA.
COSMIC/NASTRAN free-field input
22 p3609 N84-32865
SPERRY UNIVAC, ST. PAUL, MINN.
A programmable bus control interface
[AD-P003536] 21 p3332 N84-31140
The Ada (Trademark) run-time environment
[AD-P003558] 21 p3335 N84-31162
SPIRE CORP., BEDFORD, MASS.
Development of GaAs/Si and GaAs/Si monolithic structures for future space solar cells
19 p3046 N84-29327
Development and fabrication of a solar cell junction processing system
[NASA-CR-174948] 23 p3788 N84-34024
Excimer laser annealing to fabricate low cost solar cells
[NASA-CR-173938] 23 p3788 N84-34027
SPRINGBORN LABS., INC., ENFIELD, CONN.
Investigation of test methods, material properties, and processes for solar cell encapsulants
[NASA-CR-173755] 18 p2868 N84-28209
Investigation of test methods, material properties and processes for solar cell encapsulants
[NASA-CR-173748] 18 p2870 N84-28219
Investigation of test methods, material properties and processes for solar cell encapsulants
[NASA-CR-173940] 23 p3789 N84-34029
SRI INTERNATIONAL CORP., MENLO PARK, CALIF.
Microkinetics of stress-corrosion cracking in stem-turbine disc alloys
[DE83-902290] 01 p0048 N84-10307
Evaluation of WES one-dimensional dynamic soil testing procedures
[AD-A130925] 01 p0057 N84-10371
Dynamic pulse buckling, theory and experiment. Handbook
[AD-A130910] 01 p0095 N84-10621
Prediction of crack growth aqueous environments
[AD-A131485] 01 p0096 N84-10626
The anisotropy of high latitude nighttime F-region irregularities
[AD-A131215] 01 p0106 N84-10688
Evidence of East-West structure in large-scale F-region plasma enhancements in the auroral zone
[AD-A131263] 01 p0106 N84-10689
Direct biological effects of increased atmospheric carbon dioxide levels
[PB83-224360] 01 p0115 N84-10749
Fault tolerant architectures for integrated aircraft electronics systems
[NASA-CR-172226] 01 p0119 N84-10769
LIDAR (light detection and ranging) measurements for astronomical refraction. Feasibility and system definition study
[AD-A130740] 01 p0147 N84-10966
A comparative evaluation of quantitative decision-making approaches
[PB83-214106] 01 p0159 N84-11050
A comparative evaluation of quantitative decision-making approaches
[PB83-214114] 01 p0159 N84-11051
Temperature limitation of primary and secondary alkaline battery electrodes
[DE83-015009] 02 p0214 N84-11404
Response of cracks in structural materials to short pulse loads
[AD-A131565] 02 p0231 N84-11519
Computer vision research and its applications to automated cartography
[AD-A131289] 02 p0240 N84-11572
High-latitude and equatorial research support for predicting high-altitude nuclear effects
[AD-A131431] 02 p0249 N84-11630
Recommendations for NASA research and development in artificial intelligence
[NASA-CR-170585] 02 p0277 N84-11817
Research on interactive acquisition and use of knowledge
[AD-A131306] 02 p0278 N84-11823
Reduction of CO2 to methanol and methane by photo and dark reactions on semiconductor electrodes
[PB83-249490] 03 p0358 N84-12329
Shape from shading: An assessment
03 p0394 N84-12574
Study of nitration and oxidation in oxynitrogen systems
[AD-A132742] 05 p0650 N84-14271
Lagrange gage studies of nonideal explosives containing NH-4NO-3
[AD-A132760] 05 p0661 N84-14347
The effects of naturally-occurring propagation disturbances on discrete focused arrays
[AD-A132645] 05 p0670 N84-14404
Image understanding research and its application to cartography and computer-based analysis of aerial imagery
[AD-A133495] 06 p0866 N84-15642
Propagation effects in satellite-borne synthetic aperture radars 06 p0867 N84-15650
In situ characterization of seawater using a computerized suite of optical instruments 06 p0872 N84-15675
Spatiotemporal characteristics of visual localization
[AD-A133952] 06 p0888 N84-15770
Research topics in statistical database management
[DE84-002581] 06 p0935 N84-16080
Computer simulation of two-dimensional impact tests on propellant
[DE84-002460] 07 p0981 N84-16356
Characterization of initiation and detonation by Lagrange gage techniques
[DE84-002462] 07 p0981 N84-16357
An interval logic for higher-level temporal reasoning
[NASA-CR-172262] 07 p1053 N84-16821
Knowledge representation and natural-language semantics
[AD-A135476] 08 p1212 N84-17905
Organometallics in high energy chemistry
[AD-A135715] 09 p1275 N84-18323
Silicon nitride joining
[AD-A136547] 09 p1287 N84-18404
Phenomenology of structured plasma in the ionosphere
[AD-A136396] 09 p1345 N84-18784
Neurophysiological bases of event-related potentials
[AD-A135263] 09 p1362 N84-18897
OBJ-1, a study in executable algebraic formal specification
[AD-A136282] 09 p1367 N84-18922
Development and analysis of the Software Implemented Fault-Tolerance (SIFT) computer
[NASA-CR-172146] 09 p1371 N84-18953
Studies of Electron-Beam-Induced decomposition of benzene
[AD-A137241] 10 p1454 N84-19496
Machine intelligence research applied to industrial automation
[PB84-123348] 10 p1473 N84-19618
Installing a copy of the ARPA/DMA image understanding testbed at the US Army engineer topographic laboratories
[AD-A136999] 10 p1525 N84-19991
Research on interactive acquisition and use of knowledge
[AD-A137436] 10 p1568 N84-20270
Three-dimensional locating of industrial parts
[PB84-134790] 11 p1641 N84-20731
Chatanika radar and S3-2 measurements of auroral-zone electrodynamics in the midnight sector
[AD-A137947] 11 p1644 N84-20748
Propagation effects in satellite-based synthetic aperture radars
[AD-A138681] 13 p1983 N84-22873
Power transfer for microwave discharges
[AD-A138868] 13 p2044 N84-23267
The chemistry of nitrogen compounds in combustion processes
[AD-A139539] 14 p2123 N84-23723
USAFSAM (USAF School of Aerospace Medicine) review and analysis of radiofrequency radiation bioeffects literature
[AD-A140023] 15 p2379 N84-25280
Investigation, development, and evaluation of performance proving for fault-tolerant computers
[NASA-CR-166008] 15 p2385 N84-25307
STP: A mechanized logic for specification and verification 15 p2386 N84-25308
Specifying and verifying ultra-reliability and fault-tolerance properties 15 p2386 N84-25309
The hierarchical specification and mechanical verification of the SIFT design 15 p2386 N84-25310
Overview of code verification
15 p2386 N84-25311
A summary of HDM 15 p2386 N84-25312
Automatic construction of verification generators from Hoare logics 15 p2386 N84-25313
The PASCAL-HDM verification system
15 p2386 N84-25314
HDM/PASCAL verification system user's manual
15 p2387 N84-25315
The SIFT code specification 15 p2387 N84-25316
The proof of the SIFT implementation
15 p2387 N84-25317
A formal semantics for the SRI hierarchical program design methodology 15 p2387 N84-25318
On why it is impossible to prove that the BDX90 dispatcher implements a time-sharing system
15 p2387 N84-25319
Defining of the BDX930 assembly language
15 p2387 N84-25320
Verification of numerical algorithms
15 p2387 N84-25321
The use of a formal simulator to verify a simple real time control program 15 p2388 N84-25322
Hierarchical design and verification for VLSI
15 p2388 N84-25323
Three lectures on theorem-proving and program verification 15 p2388 N84-25324
Short pulse fracture mechanics
[AD-P003105] 16 p2467 N84-25810
Dynamic fracture behavior of structural materials
[AD-A140381] 16 p2502 N84-26060
Elementary processes in the catalytic combustion of methane (mechanism, intermediates and controlling reactions)
[PB84-181965] 17 p2620 N84-26770
Laser probes of propellant combustion chemistry
[AD-A140767] 17 p2628 N84-26814
MST radar data-base management
17 p2696 N84-27175
Fault tolerant architectures for integrated aircraft electronics systems, task 2
[NASA-CR-172282] 18 p2795 N84-27734
Ion photofragment spectroscopy: Structure and dissociation of molecular ions
[AD-A141196] 18 p2811 N84-27846
A bibliography of packet radio literature
[AD-A141299] 18 p2830 N84-27964
Basic study of fuel storage stability
[AD-A142194] 19 p2966 N84-28799
Packet radio temporary note index
[AD-A141528] 19 p3005 N84-29045
Distributed avionic computers
[AD-A142140] 19 p3073 N84-29494
Adaptive modeling and real-time simulation
[AD-A141648] 19 p3095 N84-29656
Diagnostics development for E-beam excited air channels: Optical studies of the PHERMEX electron beam
[AD-A142095] 19 p3101 N84-29701
Spray pyrolysis of cadmium sulfide/copper indium selenide cells
[DE84-004491] 20 p3235 N84-30537
High-latitude ionospheric irregularities
[AD-A142648] 20 p3241 N84-30573
Reduction of CO2 to methanol and methane by photo and dark reactions on semiconductor electrodes
[PB84-214360] 21 p3363 N84-31334

USAFSAM (USAF School of Aerospace Medicine)
review and analysis of radiofrequency radiation bioeffects literature
[AD-A142961] 21 p3453 N84-31912
Artificial Intelligence-Robotics applications to Navy aircraft maintenance
[AD-A143219] 22 p3529 N84-32345
Research on parallelism in problem-solving systems
[AD-A144414] 24 p3954 N84-35036

STADTWERKE MANNHEIM A.G. (WEST GERMANY).
Thermostatic fine control valves mounted on the radiators in district heating systems
[BMFT-FB-T-83-169] 07 p1012 N84-16568

STAHLWERKE PEINE-SALZGITTER A.G. (WEST GERMANY).
Wide flanged beams with improved properties
[BMFT-FB-T-83-082] 02 p0197 N84-11283
Ultrasonic billet testing equipment for surface defects
[BMFT-FB-T-83-192] 07 p1014 N84-16576
Study of the recovery of valuable metal starting materials from steelsworks slag
[BMFT-FB-T-83-183] 10 p1532 N84-20034

STAIGER, MOHILO G.M.B.H., SCHORNDORF (WEST GERMANY).
Control and supervision of nut fastening by means of a microcomputer
[BMFT-FB-T-84-106] 23 p3757 N84-33818

STAL REFRIGERATION, NORRKOEPING (SWEDEN).
Capacity control of screw compressor units
11 p1640 N84-20726

STANDARD COMMUNICATION LABS. LTD., HARLOW (ENGLAND).
High reliability semiconductor lasers for data links between satellites 24 p3904 N84-34724

STANDARD ELEKTRIK LORENZ A.G., NUREMBURG (WEST GERMANY).
Research on the use of metal-organic compounds as photoconductors in electrophotography
[BMFT-FB-T-84-112] 23 p3825 N84-34262

STANDARD TELECOMMUNICATION LABS. LTD., HARLOW (ENGLAND).
Requirements on reliability models, and their consequences 05 p0723 N84-14740
Development of flame retardant, low aggressivity cables 11 p1723 N84-21239

STANDARD TELEFON OG KABELFABRIK A/S, OSLO (NORWAY).
Low-smoke, halogenfree ship-offshore/onshore cables with improved flame retardance and fire resistance
11 p1723 N84-21240

STANFORD JOINT INST. FOR SURFACE AND MICROSTRUCTURAL RESEARCH, MOFFETT FIELD, CALIF.
Fabrication and properties of multilayer structures
[NASA-CR-174506] 06 p0922 N84-15997

STANFORD LINEAR ACCELERATOR CENTER, CALIF.
Transient high-field behavior of niobium superconducting cavities
[DE83-011852] 01 p0068 N84-10443
New control system for the SLAC accelerator klystrons for SLC
[DE83-012706] 01 p0073 N84-10480
Fast multichannel analog storage system
[DE83-012711] 01 p0119 N84-10773
Damping ring rf system for SIC
[DE83-011853] 01 p0143 N84-10938
Applications of vacuum technology to novel accelerator problems
[DE83-012710] 01 p0143 N84-10942
Improving the phase stability of the SLAC RF driveline network for SLC operation
[DE83-012714] 01 p0143 N84-10943
Microwave measurements of azimuthal asymmetries in accelerating fields of disk-loaded waveguides
[DE83-012705] 02 p0210 N84-11373
Application of the Green's function method to some nonlinear problems of an electron storage ring. Part 1. The Green's function for the Fokker-Planck equation
[DE83-014829] 02 p0282 N84-11850
Latest on polarization in electron storage rings
[DE83-012764] 02 p0290 N84-11902
Status of the SLAC SNOOP diagnostic module for FASTBUS
[DE83-012715] 02 p0290 N84-11903
Emittance calculations for the Stanford linear collider injector
[DE83-011851] 02 p0290 N84-11904
Blowup of a weak beam due to interaction with a strong beam in an electron storage ring
[DE83-016089] 02 p0291 N84-11908
Free-electron-laser research
[DE83-016957] 03 p0382 N84-12489
Monitoring of the Stanford Linac microbunches' position
[DE83-012712] 03 p0433 N84-12840
From accelerators to storage rings to ?
[DE83-011849] 03 p0434 N84-12842
Minimal unitary (covariant) scattering theory
[DE83-014896] 03 p0435 N84-12849
Covariant theory with a confined quantum
[DE83-014897] 03 p0435 N84-12850
Baryon-antibaryon angular correlations in quark jets
[DE83-015923] 03 p0435 N84-12854
Jet production and high p/sub T/ phenomena in photon-photon reactions
[DE83-016397] 03 p0437 N84-12868
Physics at very high energies
[DE83-012854] 03 p0438 N84-12878
Tau and B lifetime measurements from the MARK 2
[DE83-016219] 03 p0439 N84-12879
Cryogenic testing of the TPC superconducting solenoid
[DE84-000528] 04 p0527 N84-13467
Ideal of the perfect magnet-superconducting systems
[DE83-015080] 04 p0529 N84-13482
Toward a constructive physics
[DE83-016844] 04 p0594 N84-13919
Motion of ionized electrons under the intense electromagnetic field of the beam
[DE84-001396] 04 p0599 N84-13955
Theoretical perspectives on strange physics
[DE83-018085] 04 p0601 N84-13965
The e+e- collisions in the multi-TeV region
[DE84-000993] 04 p0601 N84-13968
Physics with polarized beams in e+e(-) colliders
[DE83-016441] 04 p0602 N84-13976
New heavy-ion-fusion accelerator research program
[DE83-014898] 04 p0609 N84-14016
Surface properties of metal-nitride and metal-carbide films deposited on Nb for RF superconductivity
[DE84-001491] 04 p0614 N84-14055
Multiplication models in projection pursuit
[DE84-001142] 05 p0741 N84-14866
New particles and interactions
[DE84-001444] 05 p0745 N84-14894
Plasma beat-wave accelerator
[DE84-001601] 05 p0750 N84-14925
A 650 mm long liquid hydrogen target for use in a high intensity electron beam
[DE84-002552] 06 p0916 N84-15955
Problems at the interface between perturbative and nonperturbative quantum chromodynamics
[DE84-002375] 06 p0926 N84-16018
Linearity and resolution of photodiodes
[DE84-002761] 07 p0998 N84-16470
High pulse power RF sources for linear colliders
[DE84-003517] 07 p0999 N84-16477
Measurement errors in TDC's using digital techniques
[DE84-002133] 07 p1008 N84-16537
A 650 mm long liquid hydrogen target for use in a high intensity electron beam
[DE84-007086] 12 p1902 N84-22389
Second order particle motion equations and linear chromaticity calculation in accelerator rings
[DE84-005895] 12 p1903 N84-22391
Program for a constructive physics
[DE84-005425] 12 p1916 N84-22486
Measurement of the energy resolution and related properties of an SCG1-C scintillation glass shower counter array for 1 to 25 GeV positrons
[DE84-007246] 14 p2148 N84-23871
Some optics alternatives for the FFS
[DE84-008255] 14 p2225 N84-24355
Large area spark counters with fine time and position resolution
[DE84-007804] 15 p2337 N84-25031
Measurement of electromagnetic shower position and size with a saturated avalanche tube hodoscope and a fine grained scintillation hodoscope
[DE84-007247] 15 p2337 N84-25032
Large area spark counter with fine time and position resolution
[DE84-008203] 19 p3028 N84-29202
Particel substructure. A common theme of discovery in this century
[DE84-006776] 19 p3113 N84-29782
Klystron voltage pulse timing experiment
[DE84-011753] 20 p3177 N84-30176
Recommendations for on-site vibration standards
[DE84-011756] 20 p3181 N84-30207
Analytic solution for the problem of gridded gap-electron flow interaction
[DE84-008975] 20 p3181 N84-30209
Computer simulation of the Lasertron
[DE84-012242] 20 p3194 N84-30287
Making electron beams for SLC linac
[DE84-012072] 20 p3293 N84-30907
Temperature rise calculations for the beam pipe in the SLC arcs
[DE84-011764] 20 p3295 N84-30924
High-gradient, pulsed operation of superconducting niobium cavities
[DE84-012498] 20 p3311 N84-31030
High power RF klystrons for linear accelerators
[DE84-012074] 21 p3392 N84-31527
Using ions to probe the transverse size of a bunch
[DE84-012772] 21 p3494 N84-32141
Engineering basis for selection of positron source material
[DE84-011772] 21 p3494 N84-32143
Further effects of ions in the arcs
[DE84-011761] 21 p3495 N84-32149
Applied chromodynamics
[DE84-009136] 21 p3495 N84-32152
Phase and amplitude control system for Stanford Linear Accelerator
[DE84-011773] 21 p3496 N84-32156
Acceleration of high charge density electron beams in the SLAC linac
[DE84-012415] 21 p3497 N84-32161
A 1-dimensional disk model simulation for klystron design
[DE84-013793] 22 p3588 N84-32727
Implicit function method for the Liouville equation
[DE84-013282] 22 p3650 N84-33140
Future of high energy physics
[DE84-013513] 22 p3654 N84-33165

STANFORD TELECOMMUNICATIONS, INC., MCLEAN, VA.
Study of a Tracking and Data Acquisition System (TDAS) in the 1990's
[NASA-CR-173262] 10 p1433 N84-19368
Tracking and data acquisition system for the 1990's. Volume 1: Executive summary
[NASA-CR-175193] 10 p1433 N84-19369
Study of a tracking and data acquisition system for the 1990's. Volume 1: User community characteristics
[NASA-CR-175194] 10 p1433 N84-19370
Study of a tracking and data acquisition system for the 1990's. Volume 3: TDAS Communication Mission Model
[NASA-CR-175195] 10 p1434 N84-19371
Study of tracking and data acquisition system for the 1990's. Volume 4: TDAS space segment architecture
[NASA-CR-175212] 10 p1434 N84-19372
Tracking and data acquisition system for the 1990's. Volume 5: TDAS ground segment architecture and operations concept
[NASA-CR-175197] 10 p1434 N84-19373
Tracking Data Acquisition System (TDAS) for the 1990's. Volume 6: TDAS navigation system architecture
[NASA-CR-175198] 10 p1434 N84-19374
Tracking and data acquisition system for the 1990's. Volume 7: TDAS space technology assessment
[NASA-CR-175199] 10 p1434 N84-19375
Tracking and data acquisition system for the 1990's. Volume 8: TDAS frequency planning
[NASA-CR-175200] 10 p1434 N84-19376

STANFORD UNIV., CALIF.
Fundamentals of analysis for digital control systems
01 p0014 N84-10094
Direct digital design via pole placement techniques
01 p0015 N84-10099
Multifrequency HF radar observations of currents and current shears
[AD-A131528] 01 p0067 N84-10439
Research on algorithms for adaptive array antennas
[AD-A131064] 01 p0072 N84-10469
Background information on the He(3) nuclear gyroscope
[AD-A130755] 01 p0084 N84-10545
The Korean auroral records, 1507 - 1747 and the SAR (Stable Auroral Red) arcs
[NASA-CR-174472] 01 p0104 N84-10677
Representations of perceptions of risks
[AD-A131443] 01 p0117 N84-10759
Hard CPU related failures and system activity: Measurement and modelling
[AD-A130821] 01 p0119 N84-10772
Automated stereo perception
[AD-A130645] 01 p0122 N84-10792
Directly executed languages
[AD-A130704] 01 p0122 N84-10794
Verification of concurrent programs: A temporal proof system
[AD-A131501] 01 p0123 N84-10801
Documentation for FDCALC and FDCORE
[DE83-013886] 01 p0124 N84-10808
Computational experience in solving equilibrium models by a sequency of linear complementarity problems
[DE83-011189] 01 p0124 N84-10811
Adaptive mesh refinement for hyperbolic partial differential equations
[AD-A130162] 01 p0131 N84-10859

A systolic architecture for singular value decomposition
[AD-A130098] 01 p0132 N84-10864
Simulation of non-Markovian systems
[AD-A130837] 01 p0133 N84-10871
Numerical solution of systems of simultaneous polynomial equations
[DE83-015832] 01 p0135 N84-10883
Further examination of simulated percentage points
[AD-A130338] 01 p0136 N84-10893
Weighing evidence: The design and comparison of probability
[AD-A131475] 01 p0137 N84-10896
Detection of solar gravity mode oscillations
[NASA-CR-174469] 01 p0165 N84-11086
Local measurements of turbulent boundary layer heat transfer on a concave surface using liquid crystals
02 p0221 N84-11451
An experimental study of the dynamics of an unsteady turbulent boundary layer 02 p0221 N84-11452
The magnetic field gradiometer
[AD-A131477] 02 p0223 N84-11462
Laser techniques for extreme-ultraviolet spectroscopy
[DE83-014834] 02 p0227 N84-11486
A nested-decomposition approach for solving staircase linear programs
[DE83-3013560] 02 p0274 N84-11792
Computational experience with the octahedral algorithm and related results
[DE83-015834] 02 p0283 N84-11854
Tests for exponentiality when origin and scale parameters are unknown
[AD-A131377] 02 p0284 N84-11864
Structural studies of amorphous Mo-Ge alloys through the semiconductor-metal transition
[DE83-016525] 02 p0299 N84-11964
On the structure of the turbulent vortex
03 p0321 N84-12102
Steady and unsteady flow models for airfoils with spoiler 03 p0327 N84-12136
Control of flexible spacecraft by optimal model following 03 p0342 N84-12222
Advanced diagnostics and instrumentation for chemically reactive flow systems
[AD-A131614] 03 p0346 N84-12251
Rising bubbles
[AD-A131572] 03 p0371 N84-12418
Laser physics and laser spectroscopy
[AD-A131720] 03 p0379 N84-12470
Cumulative damage in components of steel structures under cyclic inelastic loading 03 p0391 N84-12550
On the dynamic fracture of bars, beams and plates
03 p0391 N84-12552
Effects of microstructure and pore fluids on the acoustic properties of granular materials
[AD-A131963] 03 p0408 N84-12668
User's guide for SOL/NPSOL: A FORTRAN package for nonlinear programming
[DE83-016903] 03 p0421 N84-12751
User's guide for SOL/QPSOL: A FORTRAN package for quadratic programming
[DE83-016990] 03 p0421 N84-12752
Artificial intelligence: Cognition as computation
[AD-A131804] 03 p0423 N84-12770
Search among queues
[AD-A131639] 03 p0424 N84-12773
Kingman's subadditive ergodic theorem
[AD-A131795] 03 p0427 N84-12801
Fabrication and properties of multilayer structures
[AD-A131934] 03 p0451 N84-12969
Analytical model of rotor wake aerodynamics in ground effect
[NASA-CR-166533] 04 p0480 N84-13157
High energy efficient solid state laser sources
[NASA-CR-174606] 04 p0539 N84-13548
External versus intuitive reasoning: The conjunction fallacy in probability judgment
[AD-A131601] 04 p0574 N84-13778
The amplitude density function and high-resolution frequency analysis of time series
[AD-A132466] 04 p0592 N84-13906
Preparation of infrared optic fibers using new materials
[AD-A132311] 04 p0604 N84-13988
Buckling, postbuckling, and crippling of materially nonlinear composite plates 05 p0644 N84-14239
Research on adaptive antenna techniques 5
[AD-A133676] 05 p0669 N84-14398
A clocking discipline for two-phase digital integrated circuits 05 p0677 N84-14455
Acoustoelasticity: Scanning with shear waves
05 p0695 N84-14560
Generation of feasible descent directions in continuous time linear programming
[DE84-002506] 05 p0717 N84-14694
A study of software failures and recovery in the MVS operating system
[AD-A132681] 05 p0728 N84-14783
Laser and electron beam processing of semiconductors: CW beam-recrystallized polysilicon as a device-worthy material
[AD-A133759] 05 p0753 N84-14942
Laser and electron beam processing of semiconductors: CW beam processing of ion implanted silicon
[AD-A133758] 05 p0754 N84-14943
Joint services electronics program
[AD-A132992] 05 p0754 N84-14948
An experimental study of airfoil-spoiler aerodynamics
06 p0784 N84-15133
Aerodynamics, aeroelasticity, and stability of hang gliders 06 p0784 N84-15134
Three-dimensional, periodic halo orbits in the restricted three-body problem 06 p0793 N84-15167
High resolution ultraviolet laser spectroscopy of mercury and helium 06 p0800 N84-15214
The CARS spectroscopy in a supersonic jet
06 p0800 N84-15216
The satellite applications of amplitude companded single sideband modulation 06 p0827 N84-15391
Experimental mixed convection heat transfer from a large vertical surface in a horizontal flow
06 p0832 N84-15412
Numerical simulation of separated flows
06 p0832 N84-15413
An experimental investigation of the structure of a turbulent reattaching flow behind a backward-facing step
06 p0832 N84-15415
Improved turbulence models based on large eddy simulation of homogeneous, incompressible turbulent flows 06 p0845 N84-15514
All-fiber gyroscope with optical-Kerr-effect compensation 06 p0846 N84-15518
Subpicosecond-relaxation studies using tunable-laser-induced-grating techniques
06 p0848 N84-15531
Coherent effects in laser spectroscopy
06 p0849 N84-15533
Aeroelastic analysis of a Darrieus type wind turbine blade with troposkien geometry 06 p0863 N84-15623
Wave propagation in porous rock and models for crustal structure 06 p0876 N84-15698
Dip-moveout by Fourier transform
06 p0876 N84-15699
Development and perturbation analysis of model stochastic equations for global circulation
06 p0883 N84-15743
On the fitting of Pearson curves to sums of independent random variables
[AD-A133153] 06 p0900 N84-15844
Control of impurities in the epitaxial growth of high quality GaAs
[AD-A133187] 06 p0922 N84-15996
Fabrication and properties of multilayer structures
[NASA-CR-174506] 06 p0922 N84-15997
Power line radiation in the magnetosphere
07 p0986 N84-16387
Mechanisms for SAR imaging of ocean surface phenomena: Theory and experiment
07 p0990 N84-16416
Report of significant accomplishments. Joint services electronics program of the Edward L. Ginzton laboratory
[AD-A133360] 07 p0998 N84-16469
Multistate reliability
[AD-A134589] 07 p1013 N84-16572
Permanent CPU errors and system activity: Measurement and modelling
[AD-A134467] 07 p1052 N84-16814
Projection pursuit regression: Some mathematics
[AD-A134544] 07 p1063 N84-16894
Triangulations (tilings) and certain block triangular matrices
[DE84-003579] 07 p1064 N84-16902
Asymmetric Wiener control
[AD-A134531] 07 p1067 N84-16926
Comparison of thermal, line-source electron beam and CW laser annealing for the fabrication of ErSi/sub 2 Schottky barrier on Si
[DE84-003105] 07 p1081 N84-17031
Technique for the rapid generation of OH radicals behind shock waves and its application to the study of combustion kinetics
[DE84-003183] 08 p1126 N84-17317
Combustion gas spectroscopy using tunable lasers
[DE84-004976] 08 p1126 N84-17320
Acoustic microscopy at cryogenic temperatures
[AD-A135089] 08 p1141 N84-17421
Research in VLSI systems. Heuristic programming project and VLSI theory project. A fast turn around facility for very large scale integration (VLSI)
[AD-A134809] 08 p1151 N84-17494
Photodiagnostics of turbulent flows using laser-induced fluorescence
[NASA-CR-166546] 08 p1155 N84-17519
Improved turbulence models based on large eddy simulation of homogeneous, incompressible turbulent flows
[NASA-CR-166541] 08 p1156 N84-17528
Verification of concurrent programs: A temporal proof system 08 p1209 N84-17884
Experience with a regular expression compiler
[AD-A135202] 08 p1209 N84-17888
Statistical data processing, system modeling and reliability
[AD-A135208] 08 p1223 N84-17984
Growth and evaluation of AgGaS2 and AgGaSe2 for infrared nonlinear applications
[NASA-CR-175185] 08 p1234 N84-18066
Film synthesis and new superconductors
[AD-A135102] 08 p1234 N84-18068
The program complexity of searching a table
[AD-A135299] 08 p1240 N84-18104
The interpretation of hard X-ray polarization measurements in solar flares
[NASA-CR-172790] 08 p1246 N84-18142
Center of excellence in aerospace manufacturing automation
[AD-A136477] 09 p1249 N84-18155
Research on new approaches to optical systems for inertial rotation sensing
[AD-A136045] 09 p1254 N84-18186
Research in VLSI (Very Large Scale Integration) systems
[AD-A136413] 09 p1307 N84-18542
A structured design methodology for VLSI systems
[AD-A135725] 09 p1308 N84-18554
Experimental study of flow reattachment in a single-sided sudden expansion
[NASA-CR-3765] 09 p1312 N84-18571
The Mark 3 linac as a high current source for FEL (Free Electron Lasers) experiments
[AD-A136312] 09 p1320 N84-18625
Investigation of optimum magnet geometries for gain-expanded free-electron lasers
[AD-A136494] 09 p1321 N84-18634
Isolation and characterization of beta-glucan synthase: A potential biochemical regulator of gravistimulated differential cell wall loosening 09 p1359 N84-18882
Neurophysiological bases of event-related potentials
[AD-A135263] 09 p1362 N84-18897
Verification of hardware design correctness: Symbolic execution techniques and criteria for consistency
[AD-A136466] 09 p1365 N84-18912
Reasoning about digital circuits
[AD-A136634] 09 p1365 N84-18914
A statistical study of hardware related software errors in MVS
[AD-A135726] 09 p1368 N84-18931
Wiener-Poisson control problems
[AD-A135943] 09 p1372 N84-18956
On the Fatou inequality
[AD-A136383] 09 p1374 N84-18973
Corrected diffusion approximations and their applications
[AD-A136384] 09 p1374 N84-18974
On the representation of a basis for the null space
[AD-A136419] 09 p1375 N84-18979
Rounding errors in some recursive methods used in computational probability
[PB84-124734] 09 p1379 N84-19013
Average run lengths of an optimal method of detecting a change in distribution
[AD-A136385] 09 p1381 N84-19019
Some alternatives to Bayes' rule
[AD-A135944] 09 p1383 N84-19033
Average optimality criteria in the problems with unlimited control rates
[PB84-127943] 09 p1384 N84-19040
Research and crystal growth on high dielectric constant materials for mm wave applications
[AD-A136281] 09 p1394 N84-19102
Investigation of metallic impurities introduced into SiO/sub 2
[AD-A136008] 09 p1396 N84-19117
Rule-based statistical calculations on a database abstract
[AD-A136638] 09 p1404 N84-19172
Universal relation database systems
[AD-A135707] 09 p1404 N84-19176
Research in VLSI systems
[AD-A137398] 10 p1486 N84-19715
Classification of the California Desert for geology-energy-mineral resource potential geostatistical classification
[PB84-100668] 10 p1538 N84-20078
Precise control of flexible manipulators
[NASA-CR-175389] 10 p1553 N84-20175

Navier-Stokes simulation of homogeneous turbulence on the CYBER 205 10 p1560 N84-20224
Inspections with unknown detection probabilities [AD-A136890] 10 p1573 N84-20310
Rough surface scattering via the smoothing method [AD-A137025] 10 p1575 N84-20323
Simulation methodology [AD-A137127] 10 p1592 N84-20436
Velocity visualization in gaseous flows 11 p1610 N84-20543
SH wave propagation in a laminated composite 11 p1627 N84-20646
Superplastic bonding and ultrahigh carbon steel laminated composites [AD-A137807] 11 p1627 N84-20651
Fast algorithms for improved speech coding and recognition [AD-A137569] 11 p1643 N84-20740
Ultrasonic transducer arrays for nondestructive testing 11 p1645 N84-20757
Computation of viscous flow about advanced projectiles [AD-A137935] 11 p1653 N84-20790
Transverse mode dynamics in a free electron laser [AD-A137738] 11 p1662 N84-20846
Experimental investigation of the characteristics of an ultraviolet storage ring laser [AD-A137751] 11 p1662 N84-20847
Evolution of the transverse modes in a FEL (Free Electron Lasers), and application to the Orsay experiment [AD-A137797] 11 p1663 N84-20849
MINOS 5.0 user's guide [DE84-005640] 11 p1709 N84-21140
An overview of recursive least squares estimation and lattice filters [AD-A137554] 11 p1713 N84-21166
Numerical methods for partial differential equations [AD-A137624] 11 p1713 N84-21167
Stationary stochastic asymmetric control [AD-A137565] 11 p1717 N84-21201
Decomposition and scaling-inequality for line-sum-symmetric nonnegative matrices [DE84-005639] 11 p1719 N84-21211
Fracture mechanics evaluation of the static fatigue life of optical fibers in bending 11 p1727 N84-21265
Measurement of stress with acoustic waves 11 p1728 N84-21273
Mechanisms of catalytic oxidation of hydrocarbons in a solid-electrolyte fuel cell 11 p1742 N84-21366
Bibliography and abstracts of papers pertaining to applied mathematics [AD-A137823] 11 p1750 N84-21420
Research activities of the Applied Mathematics Group [AD-A137838] 11 p1750 N84-21422
The impulsive hard X-rays from solar flares [NASA-CR-175431] 11 p1759 N84-21480
Modelling of deformation and fracture in high-temperature structural materials [DE84-006452] 12 p1798 N84-21731
Laser detection of chemical agents [AD-A138122] 12 p1820 N84-21865
Diode pumped fiber laser [AD-A138198] 12 p1820 N84-21866
Stereo reconstruction study [AD-A138208] 12 p1836 N84-21970
Computer modeling of complete IC fabrication process [AD-A138006] 12 p1879 N84-22247
Can Leontief and P-matrices be rescaled positive definite [DE84-004802] 12 p1897 N84-22355
Advanced diagnostics for reacting flows 13 p1943 N84-22637
Distributed estimation systems [AD-P002898] 13 p1980 N84-22857
Progress and problems in storage ring free electron lasers [AD-A138683] 13 p1995 N84-22946
Anomalous laser induced bunch lengthening on the ACO storage ring free electron laser [AD-A138814] 13 p1995 N84-22949
Data compression [AD-A138541] 13 p2024 N84-23124
UV and VUV degradation of very high reflectivity mirrors for use in a storage ring free electron laser [AD-A138740] 13 p2043 N84-23255
RF properties of superconducting A-15 compounds [AD-A139067] 13 p2047 N84-23285
The case for aeolian control of meter-scale surface texture on Mars 13 p2068 N84-23528
An investigation of the structure and high temperature mechanical properties of oxide dispersion strengthened alloys [AD-A139359] 14 p2128 N84-23756
Experimental mixed convection heat transfer from a large, vertical surface in a horizontal flow [HMT-36] 14 p2146 N84-23864
Preliminary DSRS design [AD-A138890] 14 p2169 N84-23995
Photoacoustic imaging [AD-A139298] 14 p2224 N84-24350
GUIDON: A computer-aided instructional program [AD-A139999] 15 p2383 N84-25293
The advantages of abstract control knowledge in expert system design [AD-A139978] 15 p2396 N84-25370
Strategic explanations for a diagnostic consultation system [AD-A140014] 15 p2396 N84-25371
Switching net models: Rudimentary behavior, representations and applications [AD-A140047] 15 p2398 N84-25391
Approximations for expected values of normal order statistics with an application to goodness-of-fit [AD-A139970] 15 p2400 N84-25401
High magnetic field MHD generator program [DE84-007690] 15 p2411 N84-25474
Optical processing 16 p2490 N84-25975
Coherent structure modeling of viscous sublayer turbulence for incompressible flow with heat transfer and for compressible flow [AD-A140478] 16 p2493 N84-25994
Effective viscosity of a periodic suspension [AD-A140483] 16 p2493 N84-25995
Electron beam experiments and other observations from STS-3 [AD-P002106] 16 p2522 N84-26192
Ada advanced error detector [AD-A140273] 16 p2544 N84-26334
Annotation language design for Ada (ANNA) [AD-A140452] 16 p2545 N84-26336
Reflection, scattering, and absorption of acoustic waves by rough surfaces [AD-A140523] 16 p2555 N84-26390
Fundamental processes in partially ionized plasmas [AD-A140549] 16 p2558 N84-26414
Extragalactic radio sources [NASA-CR-173606] 16 p2582 N84-26557
Hard X-ray and microwave morphology [NASA-CR-173568] 16 p2582 N84-26559
Nonlinear phenomena in electromagnetic and acoustic wave propagation [AD-A140716] 17 p2653 N84-26989
Defects at electrode-oxide and electrode-silicon interfaces in VHSI device structures [AD-A140814] 17 p2663 N84-26990
Techniques for measurement of vertical and horizontal velocities: Monostatic versus bistatic measurements 17 p2686 N84-27105
Synthetic aperture radar images of ocean waves, theories of imaging physics and experimental tests 17 p2714 N84-27275
Risk: The long and the short [AD-A140580] 17 p2746 N84-27436
Comments on a problem of Chernoff and Petkau [AD-A140911] 17 p2759 N84-27518
Comment on corrected diffusion approximations in certain random walk problems' [AD-A140923] 17 p2759 N84-27519
Detection of solar gravity mode oscillations [NASA-CR-173642] 17 p2781 N84-27655
Emission model of gamma-ray bursts [NASA-CR-173629] 17 p2781 N84-27656
An analysis of wave interactions in swept-wing flows [NASA-CR-173723] 18 p2786 N84-27661
Theory and experiments on chemical instabilities [AD-A140947] 18 p2810 N84-27841
Tunable optical sources [AD-A140984] 18 p2845 N84-28066
Interactive programming [AD-A141186] 18 p2921 N84-28525
Corrected diffusion approximations to first passage times [AD-A140940] 18 p2925 N84-28548
Study of gas-surface interactions by laser-induced fluorescence detection [AD-A141559] 19 p2988 N84-28933
Auger electron pumping of short wavelength lasers [DE84-009240] 19 p3030 N84-29217
Sorting by recursive partitioning [AD-A141583] 19 p3077 N84-29524
Runtime detection and description of deadness errors in Ada tasking [AD-A142239] 19 p3079 N84-29535
On the equivalence of logical databases [AD-A141541] 19 p3085 N84-29579
Algorithms for zonal methods and development of three dimensional mesh generation procedures [AD-A141692] 19 p3086 N84-29592
A uniform bound for the tail probability of Kolmogorov-Smirnov statistics [AD-A141761] 19 p3093 N84-29643
Measurement techniques using ultrashort optical pulses [DE84-009241] 19 p3105 N84-29728
A new approach to database logic [AD-A141130] 19 p3115 N84-29795
A note on lossless database decompositions [AD-A141488] 19 p3116 N84-29797
Research in VLSI (Very Large Scale Integration) systems [AD-A142511] 20 p3178 N84-30185
Flow of foam through porous media [DE84-012410] 20 p3186 N84-30246
A theory for cross-coupling in ultrasonic transducer arrays [DE84-010327] 20 p3189 N84-30259
New adaptive processor for coherent signals and interference [AD-A142638] 20 p3273 N84-30776
Asymmetric Wainer-Poisson control [AD-A142452] 20 p3283 N84-30848
Applications of combinatorics to the busy period in several queueing models [AD-A142492] 20 p3284 N84-30850
Elastic domain wall waves in ferroelectric ceramics and single crystals [AD-A142393] 20 p3308 N84-31011
Computation of inviscid transonic flow using flux vector splitting in generalized coordinates 21 p3323 N84-31087
Wing design for minimum drag with practical constraints 21 p3327 N84-31109
An on-line equivalent system identification scheme for adaptive control 21 p3343 N84-31213
Optimal low-thrust transfers to geosynchronous orbit 21 p3348 N84-31240
Helium thrustor propulsion system for precise attitude control and drag compensation of the gravity Probe-B satellite 21 p3349 N84-31242
Attitude dynamics of the Galileo spacecraft 21 p3352 N84-31262
Physical aging and its influence on the reliability of network epoxies and epoxy-matrix composites [NASA-CR-173870] 21 p3356 N84-31289
Determining the number of signals by information theoretic criteria [AD-A142748] 21 p3386 N84-31486
Computer simulation of surface and film processes [NASA-CR-173682] 21 p3419 N84-31682
Element-by-element solution procedures for nonlinear structural analysis 21 p3420 N84-31694
Discrimination of iron alteration minerals in remote sensing data 21 p3425 N84-31727
Geology, petrology and tectonic significance of the Mesozoic Paleoceanic terranes of the Vizcaino Peninsula, Baja California Sur, Mexico 21 p3438 N84-31810
Geology of the Portrerillos District, Atacama, Chile 21 p3438 N84-31811
Geology and geochemistry of the Arctic prospect, Ambler District, Alaska 21 p3438 N84-31814
Retrogenesis of the Basal Zone of the Stillwater Complex, Montana 21 p3439 N84-31818
The petrology and geochemistry of the Yerington Batholith and the Ann-Mason Porphyry Copper Deposit, Western Nevada 21 p3441 N84-31828
Pharmacologic counter measures minimizing post-space flight orthostatic intolerance [NASA-CR-173861] 21 p3457 N84-31936
Unified theory and measurements of elastic waves in polycrystalline materials 21 p3489 N84-32110
Theory of acoustic speckle 21 p3490 N84-32114
Generation and application of finely focused low energy electron beams 21 p3492 N84-32129
The user's mental model of an information retrieval system: Effects on performance 21 p3516 N84-32275
A physical database design methodology using the property of separability 21 p3517 N84-32281
Radio scintillations observed during atmospheric occultations of Voyager: Internal gravity waves at Titan and magnetic field orientations at Jupiter and Saturn 21 p3525 N84-32331
Studies in a transonic rotor aerodynamics and noise facility [NASA-CR-166586] 22 p3538 N84-32389
Laser physics and laser techniques [AD-A143538] 22 p3601 N84-32809
Cyclotron resonant scattering of energetic electrons by electromagnetic waves in the magnetosphere 22 p3621 N84-32946
S-1 software development and maintenance [DE84-013071] 22 p3642 N84-33091

Duality in inexact fractional programming with set-inclusive constraints
[DE84-023584] 22 p3642 N84-33092
Distribution results for positive definite quadratic forms with repeated roots
[AD-A143450] 22 p3645 N84-33115
Relationships among classes of spherical matrix distributions
[AD-A143215] 22 p3648 N84-33128
Variability orderings related to coverage problems on the circle
[AD-A143364] 22 p3648 N84-33130
Diamond surface: Atomic and electronic structure
[DE84-013518] 22 p3665 N84-33234
An experimental investigation of an underexpanded rectangular jet ejector 23 p3688 N84-33374
Film cooling on a convex wall: Heat transfer and hydrodynamic measurements for full and partial coverage 23 p3745 N84-33741
A fast accurate algorithm for solving the steady 3-dimensional equations for inviscid rotational flow 23 p3746 N84-33745
A nonstationary relaxation technique for solving the equations of gas dynamics 23 p3746 N84-33746
Refined methods of aeroelastic analysis and optimization
[NASA-CR-173967] 23 p3760 N84-33835
Materials for high-temperature thermoelectric conversion
[NASA-CR-173969] 23 p3786 N84-34011
The Hall (Nevada moly) molybdenum deposit, Nye County, Nevada: Geology, alteration, mineralization and geochemical dispersion 23 p3795 N84-34062
The shear wave velocity structure of the lithosphere in central and northern California 23 p3795 N84-34063
Applications of teleseismic body waves to shallow Earth structure 23 p3795 N84-34064
Pipelined orthogonal digital lattice filters
[AD-A143902] 23 p3818 N84-34208
Optical computing research
[AD-A143994] 23 p3825 N84-34258
Superconducting and semiconducting properties of electron-beam evaporated materials
[DE84-013470] 23 p3830 N84-34296
Concept and design studies for the exploration of high energy gamma ray astronomy on the Gamma Ray Observatory 23 p3838 N84-34348
Temperature compensation of surface transverse waves for stable oscillator applications
[AD-A144245] 24 p3894 N84-34660
A new adaptive antenna system for coherent signals and interference
[AD-A144355] 24 p3898 N84-34683
Joint services electronics program
[AD-A144444] 24 p3898 N84-34684
Joint services electronics program
[AD-A144445] 24 p3898 N84-34685
High Marangoni Number convection in a square cavity: Additional results
[AD-A144485] 24 p3901 N84-34701
End-point control of flexible robots
[AD-A144428] 24 p3910 N84-34766
Implementation of logical query languages for databases
[AD-A144435] 24 p3947 N84-34992
Spatio-temporal spectral analysis by eigenstructure methods
[AD-A144361] 24 p3951 N84-35017
Research and crystal growth on high dielectric constant materials for mm wave applications
[AD-A144412] 24 p3967 N84-35119
Approaches for updating databases with incompleted information and nulls
[AD-A144319] 24 p3969 N84-35130

STANFORD UNIV., PALO ALTO, CALIF.

VLF wave injections from the ground 05 p0634 N84-14173
Results from wave injection experiments on the Porcupine rocket 05 p0635 N84-14175
Electron beam experiments aboard the Space Shuttle 05 p0638 N84-14195

STAR ENTERPRISES, BLOOMINGTON, IND.

Behavioral biology of mammalian reproduction and development for a space station
[NASA-CR-173493] 13 p2019 N84-23092

STARKE (BASIL) (PTY) LTD., CAPE TOWN (SOUTH AFRICA).

Computers for the smaller contractors 05 p0718 N84-14703

STATE UNIV. OF NEW YORK, ALBANY.

Solar radiative impacts of graphitic carbon (soot) in aerosols, clouds and snow 02 p0243 N84-11592
Diagnostic studies of atmospheric blocking patterns 02 p0246 N84-11611
The turbulent transfer of ions to the Earth's surface 05 p0706 N84-14630
Defect studies in semiconductors 05 p0752 N84-14931
An anisotropic model of diffuse solar radiation with application to an optimization of compound parabolic collectors 05 p0765 N84-15017
Thematic mapper radiomtric variability on ostensibly uniform agricultural scenes
[E84-10035] 06 p0864 N84-15626
Clear atmospheric effects on insolation illustrated by broad-band radiometer measurements 06 p0876 N84-15701
Demonstration of angular anisotropy in the output of Thematic Mapper
[E84-10095] 10 p1522 N84-19965
Particle scattering studies on foreign ions in superionic conductors
[AD-A137231] 10 p1588 N84-20406
Is the Kapuskasing structure the site of a cryptic suture 11 p1678 N84-20949
Origin of the Moon: In search of the holy grail 11 p1754 N84-21451
Cenozoic tectonics of the Caribbean: Structural and stratigraphic studies in Jamaica and Hispaniola 13 p2013 N84-23062
Structure of the Brevard Zone and Blue Ridge near Lenoir, North Carolina, with observations on oblique crenulation cleavage and a preliminary theory for irrotational structures in shear zones 13 p2014 N84-23067
Effect of asymmetric Ekman dissipation on finite-amplitude baroclinic disturbance 16 p2527 N84-26223
High energy channeling and its applications
[DE84-007251] 19 p3103 N84-29715
High yield wind energy resources in the mid-Hudson River basin
[PB84-184951] 20 p3234 N84-30530
Modification of the surface temperature by an artificial cirrus cloud
[DE84-011387] 20 p3247 N84-30611
The gas-heating phase in electrical breakdown
[AD-A141961] 20 p3302 N84-30967
Nighttime observations of thunderstorm electrical activity from a high altitude airplane 24 p3926 N84-34853
Remote observations of severe storms 24 p3927 N84-34859
Lightning observations from the Space Shuttle 24 p3928 N84-34862

STATE UNIV. OF NEW YORK, BINGHAMTON.

Computer-aided analysis of reconstructability analysis of many-dimensional relations
[PB84-127935] 09 p1380 N84-19016
The visibility of stationary and moving targets in the plane subject to a Poisson field of shadowing elements
[AD-A141305] 18 p2927 N84-28562
Approximating the probabilities of detecting and of hitting targets and the probability distribution of the number of trials along the visible portions of curves in the plane subject to a Poisson shadowing process
[AD-A141327] 18 p2927 N84-28563
Biocidal quaternary ammonium resin
[NASA-CR-171802] 19 p3063 N84-29433
Geology of the Gualan and Southern Sierra de las Minas Quadrangles, Guatemala 21 p3441 N84-31834
Usual initial and final state effects in quantum chromodynamics
[DE84-010422] 21 p3495 N84-32148

STATE UNIV. OF NEW YORK, BUFFALO.

Review of repetitive-pulse-power component technology
[DE83-011784] 01 p0073 N84-10475
The lapse rate, surface albedo and global climatic stability: Experiments with an annual zonal energy balance model 02 p0246 N84-11610
Polymer coated electrodes in ambient temperature molten salts
[AD-A133202] 06 p0801 N84-15220
Experimental investigation of the turbulent axisymmetric jet 08 p1155 N84-17518
Reasoning in multiple belief spaces 08 p1210 N84-17894
Dynamic behavior of underground structures 10 p1507 N84-19860
Time optimal digital control of multi-unit paper web dynamics 13 p2002 N84-22991
East Butte: A volcanic dome of the Eastern Snake River Plain, Idaho 13 p2079 N84-23475
Electrochemical and spectroscopic studies of polypyridine complexes of Fe(2)/(3) and Ru(2)/(3) in the aluminum chloride: N-(1-Butyl)Pyridinium chloride molten salt
[AD-A139170] 14 p2122 N84-23715
Electrochemical polymerization of pyrrole and electrochemistry of polypyrrole films in ambient temperature molten salts
[AD-A139174] 14 p2122 N84-23716
Increased electrochemical window in ambient temperature neutral ionic liquids
[AD-A139194] 14 p2122 N84-23717
Cathodic stripping voltammetry of thioamides on a rotating silver disk electrode
[AD-A139200] 14 p2122 N84-23718
Critically damped dynamic systems 15 p2313 N84-24879
Random multiple access methods in multi-user communication systems 22 p3571 N84-32616
Stresses and displacements in linear Maxwell non-isothermal circular plates on Winkler foundation and with radial and transverse variation in material properties 22 p3608 N84-32856

STATE UNIV. OF NEW YORK, STONY BROOK.

Research on surface physics and crystallography at NSLS
[DE83-015035] 01 p0155 N84-11017
Developing higher plant systems in space 02 p0263 N84-11727
Two-fluid gravitational instabilities in a galactic disk 02 p0305 N84-11998
Hadron-hadron collider group
[DE83-010704] 03 p0437 N84-12865
On interpolation methods for boundary value ordinary differential equations 04 p0586 N84-13869
Self-consistent spherical accretion and models of quasars 04 p0620 N84-14088
Tenth International Thermal Spraying Conference
[AD-A133074] 05 p0663 N84-14359
High sensitivity comparison of potential differences between two Josephson junctions 05 p0752 N84-14930
Computer networks without a shared memory
AFOSR-81-0197
[AD-A135074] 08 p1215 N84-17927
Numerical solution of singular integral equations arising in mixed boundary value problems of elasticity
[AD-A134673] 08 p1220 N84-17985
Cells, embryos and development in space 09 p1356 N84-18862
Metal oxide anodes for the photoelectrochemical generation of oxygen
[DE84-004168] 10 p1456 N84-19511
X-ray holographic microscopy experiments at the Brookhaven synchrotron light source
[DE84-004289] 10 p1499 N84-19796
Stable isotope studies
[DE84-002436] 10 p1577 N84-20332
Background research in support of the new grant proposal: Research consortium for X-ray topography on line X-19 at NSLS
[DE84-004212] 10 p1589 N84-20414
Use of olivine and plagioclase saturation surfaces for the petrogenetic modeling of recrystallized basic plutonic systems 11 p1679 N84-20956
Granitic rocks and metasediments in Archean crust, Rainy Lake area, Ontario: ND isotope evidence for mantle-like SM/ND sources 11 p1680 N84-20964
Dynamic, hierarchical decision problems
[AD-P002912] 13 p1981 N84-22863
Geochemistry and origin of regional dolomites
[DE84-008257] 15 p2369 N84-25214
Ion implantation metallurgy: A study of the composition, structure and corrosion behavior of surface alloys formed by ion implantation and ion beam mixing
[AD-A140713] 17 p2624 N84-26792
Thermally-sprayed active metal coatings for corrosion protection in marine environments
[AD-A140783] 17 p2624 N84-26795
The impact of communicating through computers 17 p2750 N84-27457
Multiphoton ionization spectroscopy and photochemistry of transient species
[DE84-010424] 20 p3295 N84-30922

STATE UNIV. OF NEW YORK, SYRACUSE.

The effect of point-spread function interaction with radiance from heterogeneous scenes on multitemporal signature analysis 20 p3211 N84-30400

STATE UNIV. OF NEW YORK AT BUFFALO, AMHERST.

Multiple steady states of buoyancy induced flow in cold water and their stability 04 p0530 N84-13487
Arrays of very small voltammetric electrodes based on reticulated vitreous carbon
[AD-A134031] 05 p0674 N84-14426
Plasma magnetic field measurement by intracavity absorption
[DE84-005152] 10 p1500 N84-19806
Dynamics of a simple system subjected to random impact 10 p1511 N84-19889

Computer aided layout of procedure information for training and job aiding
[AD-A139347] 14 p2205 N84-24236
CO-2 laser heating of silicon and applications
[DE84-008273] 15 p2339 N84-25042

STEIN ENGINEERING SERVICES, INC., PHOENIX, ARIZ.
Measurements on and with non-linear systems: Problems and approaches
[AD-P002673] 11 p1657 N84-20810

STENCEL AERO ENGINEERING CORP., ARDEN, N.C.
The Stencel S4S ejection seat: A study in new pyrotechnic developments 20 p3141 N84-29943

STERREWACHT, LEIDEN (NETHERLANDS).
The 3.3 micron mapping of NGC 7027
16 p2571 N84-26499
The 3.3 micron mapping of NGC 7027
18 p2949 N84-28697

STEVENS INST. OF TECH., HOBOKEN, N. J.
Pulsed electrodeposition of amorphous and composite alloys
[AD-A132848] 05 p0646 N84-14246
An NMR study of solid hydrogen using packer solid echoes and rotating reference frame relaxation
06 p0922 N84-15992
A study of waves on a curved space-time
08 p1237 N84-18083
The influence of gyroscopic forces on the dynamic behavior and flutter of rotating blades
[NASA-CR-175444] 11 p1608 N84-20524
Time domain analysis and synthesis of robust controllers for large scale LQG (Linear Quadratic Gaussian) regulators
[AD-A137760] 11 p1713 N84-21172
Behavior of cascaded airfoils under conditions of high mean loading and flow unsteadiness
[AD-A139799] 15 p2263 N84-24592
On the structure of rotational instabilities in non-Newtonian fluids 15 p2315 N84-24892
Applications of the scanning electron microscope to concrete failure (Axial, biaxial, and dynamic)
[AD-A141788] 19 p3036 N84-29256

STIRLING THERMAL MOTORS, INC., ANN ARBOR, MICH.
The base engine for solar Stirling power
18 p2875 N84-28254

STOCKHOLM UNIV. (SWEDEN).
A system for measuring fluxes of trace gases to and from soil and vegetation with a chamber technique
[CM-61] 07 p1028 N84-16662
Computer-based conferencing
11 p1752 N84-21435
Activities report of the Institute of Meteorology
[AR-82-83] 12 p1861 N84-22128
Thin sets in nonlinear potential theory
13 p2032 N84-23178
Sulfate in precipitation. A presentation of data from the European Air Chemistry Network
[CM-64] 15 p2367 N84-25199
Atmospheric selenium
[CM-66] 17 p2728 N84-27366
Lagrangian time scales connected with clouds and precipitation
[CM-65] 18 p2891 N84-28350
The blue-green spectrum of gaseous Pb2 wave numbers and constants of the FOu+ - XOg+ system
[USIP-84-06] 20 p3151 N84-30009
RF sputtering and annealing of amorphous zinc telluride films
[USIP-84-04] 20 p3159 N84-30061
Flavor mixing and the six quark model
[USIP-84-08] 20 p3298 N84-30940
On the closure of spaces of sums of ridge functions and the range of the X-ray transform
22 p3635 N84-33035

STONE AND WEBSTER ENGINEERING CORP., BOSTON, MASS.
Modular stellarator reactor: A Fusion power plant
[DE84-002268] 07 p1077 N84-17001
Major salt beds of the Palo Duro and Dalhart Basins, Texas
[DE84-005255] 12 p1837 N84-21973

STRAPDOWN ASSOCIATES, INC., MINNETONKA, MINN.
Advances in strapdown sensors
16 p2446 N84-25693
Strapdown system algorithms
16 p2446 N84-25694

STRASBOURG UNIV. (FRANCE).
Some remarks on second order stationary process (or weak stationarity) 09 p1412 N84-19239

STRATHCLYDE UNIV., GLASGOW (SCOTLAND).
The influence of lattice imperfections on the chemical reactivity of solids. The growth and perfection of TNT (trinitro-toluene) single crystals
[AD-A140408] 16 p2560 N84-26425
The influence of lattice imperfections on the chemical reactivity of solids. The growth, perfection and defect properties of PETN (pentaerythritol tetranitrate) and RDX (cyclotrimethylene trinitramine) single crystals, part 1
[AD-A141271] 18 p2941 N84-28651
The influence of lattice imperfections on the chemical reactivity of solids. The growth, perfection and defect properties of PETN (pentaerythritol tetranitrate) and RDX (cyclotrimethylene trinitramine) single crystals, part 2
[AD-A141272] 18 p2941 N84-28652

STRUCTURAL DYNAMICS RESEARCH CORP., MILFORD, OHIO.
A geometric modeler based on a dual-geometry representation polyhedra and rational b-splines
12 p1869 N84-22181

STRUCTURAL SEMANTICS, PALO ALTO, CALIF.
Linguistic methodology for the analysis of aviation accidents
[NASA-CR-3741] 06 p0784 N84-15135

STUTTGART UNIV. (WEST GERMANY).
Viscous effects and heat transfer in a calculation method for axialsymmetric flow in multistage turbomachines using the stream function 07 p0956 N84-16201
Deformation 07 p1030 N84-16683
Spacetime operational geodesy
07 p1031 N84-16684
Geodetic reference frames 07 p1031 N84-16685
Global dynamics 07 p1031 N84-16686
Global displacement models 1
07 p1031 N84-16687
Global displacement models 2
07 p1031 N84-16688
Extended experimental and theoretical investigations to quantify ductile fracture behavior, using MnMoNi 55
[MPA-82-01] 09 p1334 N84-18709
Influence of deformation behavior, oxydation, and temperature on the long time cyclic stress behavior of high temperature steels
[MPA-82-02] 09 p1334 N84-18710
Proceedings of the 3rd International Workshop on Plasma Focus Research
[IPF-83-6] 10 p1581 N84-20357
Ion and neutron emission of the Poseidon plasma focus 10 p1582 N84-20370
Theoretical treatment of turbulent plasma dynamics
10 p1584 N84-20381
Prospects of the plasma focus for magnetic fusion
10 p1585 N84-20386
Field emission electric propulsion. Further testing of mercury as propellant
[IRA-83-P-6] 12 p1782 N84-21629
Technical applications of solar energy. Project photovoltaic systems and project selective coatings
[BMFT-FB-T-83-299] 12 p1844 N84-22025
The basic equations for a four component theory of turbulent magnetoplasmadynamics
[IPF-83-3] 12 p1911 N84-22453
Far field radiation patterns from open ended oversized circular waveguides and identification of multimode outputs of gyrotrons
[IPF-83-5] 12 p1911 N84-22454
Activities report of the Institut fuer Plasmaforschung
13 p2046 N84-23276
Theoretical and experimental investigations for the construction of a continuous, RF-excited waveguide CO2-laser with high frequency tunability and high output power
[IPF-83-1] 14 p2151 N84-23889
Regular and stochastic motions of charged particles in electrostatic waves
[IPF-83-7] 14 p2223 N84-24341
The significance of the pinch phase for the production of neutrons in a plasma focus
[IPF-83-2] 14 p2231 N84-24379
Magnetoacoustic heating and Flux-Conserving-Tokamak (FCT) equilibria in a belt pinch
[IPF-83-4] 14 p2231 N84-24380
Technical use of solar energy. Part 1. Thin films solar cells
[BMFT-FB-T-83-298-PT-1] 15 p2362 N84-25172
Technical use of solar energy: Conversion from solar to thermal energy, solar cooling and thermal energy storage
[BMFT-FB-T-83-300] 15 p2362 N84-25173
Interactive creation of instructions for interactive graphic analysis (INGA)
[ISD-300] 15 p2390 N84-25337
A study of the different solution methods for nonlinear problems
[ISD-304] 15 p2396 N84-25376
Gaussian quadrature formulae for tetrahedronal regions
[ISD-307] 15 p2396 N84-25377
Interactive creations and modification of chinese characters
[ISD-299] 15 p2417 N84-25513

SURREY UNIV., GUILDFORD (ENGLAND).
Adaptive correction of control machines
[ISD-301] 16 p2484 N84-25929
An inductive process in automatic recording of crack propagation
[ISD-298] 16 p2502 N84-26056
Mathematical models of photogrammetric point determination 16 p2504 N84-26070
Stochastic models for point manifolds
16 p2504 N84-26072
Reliability and discernability of extended Gauss-Markov models 16 p2505 N84-26076
Utilization of light wave scales and opto-electronic transformers for measuring distortion and expansion
[ISD-309] 16 p2557 N84-26402
Thermodynamics of the decomposition of liquid alloys
17 p2612 N84-26721
POPSAT: A candidate satellite system for solid Earth applications and sciences. Preliminary feasibility study. Volume 1: Summary
[ESA-CR(P)-1882-VOL-1] 17 p2614 N84-26735
POPSAT: A candidate satellite system for solid Earth applications and sciences. Preliminary feasibility study. Volume 2: Development program
[ESA-CR(P)-1882-VOL-2] 17 p2614 N84-26736
The influence of overheating on the development of structures, on ductility, and on corrosion resistance of the heat effect zones of stabilized austenitic nickel-chromium steels
[MPA-83-03] 18 p2815 N84-27872
Precision clock generators in Ta thin film technology
[BMFT-FB-T-84-073] 19 p3019 N84-29144
The concept of the Low Intermediate Frequency Translation Loop (LIFTL) and its application on a CO2 laser intersatellite data link system
24 p3905 N84-34733
Design criteria for space based laser ranging systems
24 p3908 N84-34751

SUMITOMO ELECTRIC INDUSTRIES LTD., KANUMA (JAPAN).
Development of copper-coated aluminum-shielded wire 11 p1719 N84-21214

SUMITOMO ELECTRIC INDUSTRIES LTD., OSAKA (JAPAN).
Development of composite fiber-optic electric-power umbilical cable and optical feedthrough for deep ocean mining 11 p1722 N84-21231

SUMITOMO HEAVY INDUSTRIES LTD., HIRATSUKA (JAPAN).
A small and light weight heat exchanger for on-board helium refrigerator 06 p0619 N84-15339

SUMITOMO ELECTRIC INDUSTRIES LTD., YOKOHAMA (JAPAN).
Design and characteristics of radiating pair cable
11 p1720 N84-21217
Performance characteristics of VAD single mode fibers in mass production basis 11 p1725 N84-21254
Development of short-distance optical transmission cord 11 p1727 N84-21268

SUN DESIGNS, GLEN MOORE, PA.
Flat-plate solar-collector performance data base and user's manual
[DE83-011993] 04 p0558 N84-13682

SUNDSTRAND ADVANCED TECHNOLOGY GROUP, ROCKFORD, ILL.
Implementing microprocessor technology in aircraft electrical power generating system control
03 p0336 N84-12185

SUNDSTRAND AVIATION-ROCKFORD, ILL.
Electric Remotely Piloted Vehicle (ERPV)
[AD-A136201] 09 p1310 N84-18563

SUNDSTRAND CORP., ROCKFORD, ILL.
The 400-Hz aircraft power-generation systems: Advancing the baseline 01 p0010 N84-10056

SUNSTRAND ENERGY SYSTEMS, ROCKFORD, ILL.
Space Shuttle Orbiter improved auxiliary power unit
20 p3144 N84-29965

SUNPOWER, INC., ATHENS, OHIO.
Gas-fired duplex free-piston Stirling refrigerator
[PB84-171537] 17 p2639 N84-26884
SPIKE-2: A practical Stirling engine for kilowatt level solar power 18 p2873 N84-26239

SUOMALAINEN TIEDEAKATEMIA, HELSINKI (FINLAND).
On 4th-order homogeneous functionals in the class of bounded univalent functions 15 p2396 N84-25374
Hyperharmonic cones and hyperharmonic morphisms
[ISBN-951-41-0476-5] 21 p3475 N84-32027

SURREY UNIV., GUILDFORD (ENGLAND).
Mathematical modeling of a continuum. Related modal analysis. Volume 1: Problem analysis
[ESA-CR(P)-1862-VOL-1] 16 p2552 N84-26376
Mathematical modelling of a continuum. Related modal analysis. Part 3: Programmer's manual
[ESA-CR(P)-1862-VOL-3] 16 p2553 N84-26377

Mathematical modelling of a continuum. Related modal analysis. Volume 2: User's manual
[ESA-CR(P)-1862-VOL-2] 16 p2553 N84-26379

SUSQUEHANNA RESOURCES AND ENVIRONMENT, INC., JOHNSON CITY, N.Y.

Applications of texture analysis for rock types discrimination, phase 2
[AD-A142268] 19 p3042 N84-29303

SUSSEX UNIV., BRIGHTON (ENGLAND).

Squeeze-film damping of rotor-dynamic systems
08 p1168 N84-17610

SUTHERLAND SPROULL AND ASSOCIATES, INC., PITTSBURGH, PA.

Walking machine control programming
[AD-A134435] 07 p1051 N84-16809

SUZUKI METAL INDUSTRY CO. LTD. (JAPAN).

The heat pipe exchanger with controllable heat exchanging area 20 p3169 N84-30124
Experimental study of the naphtaline heat pipe
20 p3169 N84-30125

SUZUKI SHOKAN CO. LTD. (JAPAN).

Compact Claude cycle refrigerator for laboratory use
06 p0819 N84-15338

SVERDRUP AND PARCEL, INC., ST. LOUIS, MO.

Stochastic simulation of creep behavior
15 p2316 N84-24899

SVERDRUP TECHNOLOGY, INC., ARNOLD AIR FORCE STATION, TENN.

Dynamic certification of a thrust-measuring system for large solid rocket motors 06 p0860 N84-15603
Inertial Upper Stage (IUS) Solid Rocket Motor (SRM) core flow sampling at high altitudes
[AD-A134997] 08 p1121 N84-17288
Collision widths of CO lines broadened by water vapor at elevated temperatures
[AD-A136121] 09 p1323 N84-18644
Status of new aerothermodynamic analysis tool for high-temperature resistant transparencies
[AD-P003236] 17 p2598 N84-26649

SWEDISH METEOROLOGICAL AND HYDROLOGICAL INST., NORKOEPING.

Use of radar in the pilot project
18 p2887 N84-28323
Radar network in Sweden 18 p2888 N84-28333

SWEDLOW, INC., GARDEN GROVE, CALIF.

An improved acrylic sheet material with enhanced craze resistance
[AD-P003203] 17 p2592 N84-26616
Specialty coatings for increased service life of acrylic aircraft transparencies, part 2
[AD-P003206] 17 p2593 N84-26619
Monolithic F-16 uniform thickness stretched acrylic canopy transparency program
[AD-A140645] 17 p2606 N84-26694

SYDNEY UNIV. (AUSTRALIA).

Buckling of stiffened cylindrical bins under wind loading
[PB84-137926] 10 p1518 N84-19941
Nonlinear analysis of thin-walled I-sections in bending
[PB84-137918] 11 p1669 N84-20890
Soot formation in diffusion flames
15 p2291 N84-24750

SYNECTICS CORP., ROME, N. Y.

Interactive raster data structure study
[AD-A130195] 01 p0100 N84-10649

SYNERGY, INC., WASHINGTON, D. C.

Develop a normative or descriptive model of the international/domestic civil aviation industry, volume 3
[AD-A131878] 03 p0314 N84-12051
Develop a normative or descriptive model of the international/domestic civil aviation industry, volume 2
[AD-A131877] 03 p0314 N84-12052
Develop a normative or descriptive model of the international/domestic civil aviation industry. Volume 1: Executive summary
[AD-A131876] 03 p0314 N84-12053

SYRACUSE RESEARCH CORP., N. Y.

Properties of a new rank statistic for comparing two populations in an arbitrary right censoring sampling scheme
[AD-A139640] 15 p2400 N84-25400

SYRACUSE UNIV., N. Y.

Polymeric microelectronics
[AD-A130523] 01 p0049 N84-10317
Surface acoustic wave/silicon monolithic sensor/processor
[NASA-CR-174541] 01 p0056 N84-10366
Electromagnetic coupling to an infinite wire through a small aperture of arbitrary shape
[AD-A130425] 01 p0062 N84-10407
Extended development procedure EDeP user's manual
[AD-A131381] 01 p0116 N84-10756
The heteroscedastic method: Theory and applications
[AD-A129525] 01 p0137 N84-10895
Analytical evaluation of the potential due to a uniformly charged planar triangular region
[AD-A130810] 01 p0138 N84-10907
Multiplane finite element method: Applications to fiber reinforced material 03 p0348 N84-12261
Thermal stress analysis of annular glass-to-metal seals under thermal shock 03 p0370 N84-12408
Prospects for Cerenkov ring imaging at hadron colliders 06 p0913 N84-15934
The discrete convolution method for solving some large moment matrix equations
[AD-A135420] 08 p1226 N84-18007
EMC (electromagnetic compatibility) modeling and analysis: A probabilistic approach
[AD-A135664] 09 p1301 N84-18505
Some critical issues in VLSI signal processor implementation 09 p1403 N84-19164
Logic programming and knowledge base maintenance
[AD-A137062] 10 p1564 N84-20245
Literature survey on oxidations and fatigue lives at elevated temperatures
[NASA-CR-174639] 11 p1633 N84-20674
Electromagnetic coupling between a conducting body and an aperture in an infinite conducting plane
[AD-A138394] 12 p1898 N84-22361
Electromagnetic radiation and scattering from a system of conducting bodies interconnected by wires
13 p1984 N84-22882
An error-specific approach to testing
13 p2027 N84-23143
A guidebook for software reliability assessment
[AD-A139240] 14 p2205 N84-24233
Research program in elementary particle theory
[DE84-006867] 14 p2223 N84-24338
Computer programs for electromagnetic coupling between a conducting body and an aperture in an infinite conducting plane
[AD-A142975] 21 p3386 N84-31491
Solution of some additional electromagnetic problems by the discrete convolution method
[AD-A143056] 21 p3387 N84-31493
Crack tip field and fatigue crack growth in general yielding and low cycle fatigue
[NASA-CR-174686] 22 p3554 N84-32503
Computer calculated analysis of subsurface formation porosities in central New York state
22 p3620 N84-32941
Spherically symmetric radiation in gravitational collapse 22 p3677 N84-33312
Calculation of the excess inductance of a microstrip discontinuity
[AD-A143819] 23 p3742 N84-33718
Deformation of the subsurface silurian and devonian rocks of the southern tier of New York State
23 p3795 N84-34067

SYRACUSE UNIV., UTICA, N. Y.

Information retrieval research support
[AD-A131990] 03 p0459 N84-13022

SYSTEM DEVELOPMENT CORP., MCLEAN, VA.

Guideline for computer security certification and accreditation. Category: ADP (Automatic Data Processing) operations. Subcategory: Computer security. Federal information processing standards
[FIPS-PUB-102] 20 p3268 N84-30736

SYSTEM DEVELOPMENT CORP., SAN DIEGO, CALIF.

Ingres to dBASE and financial spreadsheet program packages
[AD-A139626] 15 p2391 N84-25351

SYSTEM PLANNING CORP., ARLINGTON, VA.

Synthesis of refractory compounds with gasless combustion reactions
[AD-A140296] 16 p2472 N84-25842

SYSTEMS AND APPLIED SCIENCES CORP., HAMPTON, VA.

Mesocyclone detection and classification algorithm
[AD-A131826] 03 p0411 N84-12691
Interaction of aerodynamic noise with laminar boundary layers in supersonic wind tunnels
[NASA-CR-3621] 11 p1651 N84-20781
Advanced laser stratospheric monitoring systems analyses
[NASA-CR-172348] 16 p2552 N84-26373
Empirical studies of upper atmospheric species
[NASA-CR-172437] 21 p3443 N84-31847

SYSTEMS AND APPLIED SCIENCES CORP., HYATTSVILLE, MD.

FGGE/SBUV tape specification and shipping letter description
[NASA-CR-170482] 06 p0934 N84-16071
FGGE/ERBM tape specification and shipping letter description
[NASA-CR-170547] 06 p0934 N84-16072
FGGE/ERBZ tape specification and shipping letter description
[NASA-CR-170548] 06 p0934 N84-16073
FGGE/SMMR-30 tape specification and shipping letter description
[NASA-CR-170550] 06 p0935 N84-16074
Memory efficient solution of the primitive equations for numerical weather prediction on the CYBER 205
10 p1559 N84-20213
User's guide for ERB-7 SEFDT. Volume 3: Quality control report for year-2
[NASA-CR-170618] 16 p2581 N84-26552
User's guide for ERB 7 SEFDT. Volume 1: User's guide. Volume 2: Quality control report, year 1
[NASA-CR-170616] 16 p2581 N84-26553
The use of linear feature detection to investigate Thematic Mapper data performance and processing
20 p3210 N84-30393
User's guide for ERB 7 matrix. Volume 1: Experiment description and quality control report for year 1
[NASA-CR-170619] 21 p3464 N84-31960
NIMBUS 7 Earth Radiation Budget (ERB) matrix user's guide. Volume 2: Tape specifications
[NASA-CR-170620] 21 p3464 N84-31961

SYSTEMS AND APPLIED SCIENCES CORP., MONTEREY, CALIF.

Assessing and displaying the effects of elevated trapping layers in support of Navy command and control
[AD-A142216] 19 p3008 N84-29065

SYSTEMS AND APPLIED SCIENCES CORP., RIVERDALE, MD.

Objective analysis and prediction techniques
[AD-A131465] 02 p0256 N84-11675

SYSTEMS AND APPLIED SCIENCES CORP., SILVER SPRING, MD.

The use of linear feature detection to investigate thematic mapper data performance and processing
[E84-10037] 04 p0551 N84-13630

SYSTEMS AND APPLIED SCIENCES CORP., VIENNA, VA.

Objective analysis and prediction techniques, 1983
[AD-A142441] 20 p3245 N84-30599

SYSTEMS APPLICATIONS, INC., SAN RAFAEL, CALIF.

Statistical correlations of surface wind data: A comparison between a National Weather Service station and a nearby aerometric network
[PB83-237263] 02 p0257 N84-11680
Human exposure to atmospheric concentrations to selected chemicals, volume 1
[PB84-102540] 08 p1202 N84-17835

SYSTEMS ASSOCIATES, INC., LONG BEACH, CALIF.

Command flight path display, phase 1 and 2
[AD-A140870] 17 p2611 N84-26711
Command flight path display, phase 1 and 2. Appendices A - E
[AD-A140871] 17 p2611 N84-26712

SYSTEMS CONTROL, INC., PALO ALTO, CALIF.

Assessment of load-frequency-control impacts caused by small wind turbines
[DE82-011513] 06 p0872 N84-15677
Adaptive decentralized control
[AD-A142160] 19 p3081 N84-29549

SYSTEMS CONTROL TECHNOLOGY, INC., PALO ALTO, CALIF.

A general field theory for vortex structure and interaction
[AD-A134146] 07 p1033 N84-16705
Cloud bands structure of Hurricane David, 1979: A case study
[AD-A144529] 24 p3934 N84-34904

SYSTEMS CONTROL TECHNOLOGY, INC., WEST PALM BEACH, FLA.

CONUS Loran-C error budget: Flight-test
[AD-A139871] 15 p2259 N84-24568
CONUS (Continental United States) Omega/VLF data collection: Flight test
[AD-A140252] 16 p2446 N84-25688

SYSTEMS DYNAMICS, INC., GAINESVILLE, FLA.

Space Shuttle propulsion parameter estimation using optimal estimation techniques, volume 1
[NASA-CR-170935] 03 p0341 N84-12213

SYSTEMS PRODUCTIVITY AND MANAGEMENT CORP., DAYTON, OHIO.

Microprocessors in aircrew training devices
[AD-P003485] 21 p3513 N84-32252

SYSTEMS RESEARCH LABS., INC., DAYTON, OHIO.

Electroluminescent formation lights for HC-130 P/N special operations. 1: Flight test candidates
[AD-A137662] 11 p1606 N84-20516
Two-dimensional fast Fourier transforms in image processing
[AD-A139997] 15 p2398 N84-25390
Effects of ionizing radiation and restraint stress on activity, avoidance conditioning, and stomach ulcers in albino rats
[AD-A141515] 19 p2984 N84-28911
Characterization of the microstructures of various materials
[AD-A141946] 20 p3152 N84-30017

SYSTEMS SCIENCE AND SOFTWARE, LA JOLLA, CALIF.
Numerical simulation of the velocity records from the SRI grout spheres experiment
[AD-A131267] 01 p0096 N84-10627
Surface wave path corrections, deterministic discrimination and body wave attenuation
[AD-A133574] 06 p0878 N84-15714
Transient gas flow along single or bundled electrical cables surrounded by a permeable medium
[DE84-004791] 10 p1494 N84-19772
Shock isolated accelerometer
[AD-P002692] 11 p1660 N84-20827
Mechanisms that limit potentials on ionospheric satellites
[AD-P002118] 16 p2524 N84-26204
Polar code development
[AD-P002122] 16 p2524 N84-26208
SYSTEMS TECHNOLOGY, INC., HAWTHORNE, CALIF.
Control/display trade-off study for single-pilot instrument flight rule operations 03 p0313 N84-12044
Tentative STOL (short-takeoff-and-landing) flying qualities criteria for MIL standard and handbook
[AD-A132857] 05 p0629 N84-14138
Space Shuttle flying qualities and flight control system assessment study, phase 2
[NASA-CR-170406] 05 p0633 N84-14158
Helistat simulation studies
[NASA-CR-166567] 11 p1614 N84-20564
Space shuttle flying qualities criteria assessment, phase 3
[NASA-CR-170407] 11 p1614 N84-20565
Flexible aircraft flying and ride qualities
11 p1615 N84-20572

T

TACTICAL AIR COMMAND, LANGLEY AFB, VA.
AQM-81A firebolt
[AD-A135895] 09 p1255 N84-18194
TACTICAL AIR WARFARE CENTER, EGLIN AFB, FLA.
F-15 Limited Field of View visual system training effectiveness evaluation
[AD-A144309] 24 p3938 N84-34925
TALLEY INDUSTRIES OF ARIZONA, INC., MESA.
High performance, low flame temperature nitramine propellant development 20 p3141 N84-29946
TALLY INDUSTRIES, INC., MESA, ARIZ.
Investigation of organic oxidizers for high performance low flame temperature gas generator applications
13 p1950 N84-22676
TARTAN LABS., INC., PITTSBURGH, PA.
The NEBULA standard computer architecture
[AD-P003532] 21 p3331 N84-31136
TARTU ASTRONOOMIA OBSERVATOORIUMI (USSR).
A methodological look at astronomical statistics in the light of unbiased estimation 09 p1411 N84-19229
Synthetic spectra of red giants
15 p2422 N84-25550
TARTU STATE UNIV. (USSR).
Phase dispersion minimization methods for estimation of periods from unequally spaced sequences of data
09 p1408 N84-19202
TATA INST. OF FUNDAMENTAL RESEARCH, BOMBAY (INDIA).
On Waring's problem g (4) or = 20
03 p0425 N84-12781
On a class of orbit closures with unique minimal sets
07 p1060 N84-16869
Harmonic maps from S-2 to IHP-2
22 p3645 N84-33109
TATA RESEARCH DEVELOPMENT AND DESIGN CENTRE, PUNE (INDIA).
Transport properties of fluorite oxides
11 p1740 N84-21355
TAYLOR WOODROW CONSTRUCTION LTD., SOUTHALL (ENGLAND).
Study of the practicalities of concrete for OTEC (Ocean Thermal Energy Conversion) and other marine applications
[PB83-221887] 01 p0060 N84-10398
TECHNICAL COOPERATION PROGRAM, REDSTONE ARSENAL, ALA.
Radar signal processing architectures and algorithms in digital VLSI (Very Large Scale Integration)
[PB84-140110] 11 p1645 N84-20756
TECHNICAL INFORMATION CENTER, OAK RIDGE, TENN.
Subject categories with scope definitions and limitations
[DE83-008754] 02 p0302 N84-11984
Energy Data Base. Serial titles with ISSN listing
[DE84-003876] 21 p3518 N84-32289
Energy Data Base corporate author entries
[DE84-003877] 21 p3518 N84-32290
TECHNICAL RESEARCH CENTRE OF FINLAND, ESPOO.
Note on standardization of implant tests
[VTT-RR-189] 02 p0198 N84-11288
Reactor pressure vessel steels ASME SA 533B and SA508.C1.2: Microstructural investigations
[VTT-RR-219] 07 p0977 N84-16333
The effect of post weld heat treatment on welds in steel structures
[VTT-RR-217] 07 p1013 N84-16570
A microstatistical model for carbide induced cleavage fracture
[VTT-RR-220] 07 p1017 N84-16599
HEXANN-EVALU: A Monte Carlo program system for pressure vessel neutron irradiation calculation
[VTT-RR-210] 07 p1073 N84-16975
Hydraulic cylinder seals in arctic conditions
[VTT-207] 14 p2155 N84-23912
Ultrasonic inspection of internal defects in castings
[VTT-201] 14 p2156 N84-23920
Determination of weld hydrogen content
[VTT-240] 15 p2296 N84-24777
Ion plating as a deposition method for tribological coatings
[VTT-13] 15 p2296 N84-24778
Comparison of the force scale up to 1 MN between the Physikalisch-Technischen Bundesanstalt (PTB), West Germany and the Technical Research Centre of Finland (VTT)
[VTT-229] 15 p2336 N84-25021
Weld quality monitoring system
[VTT-RR-263] 19 p3033 N84-29240
Friction in low speed lubricated rolling and sliding contacts
[VTT-16] 20 p3199 N84-30318
TECHNICAL UNIV. OF DENMARK, LYNGBY.
On the assessment of errors due to antenna pattern imperfections: Executive summary
[TUD-R-253] 02 p0210 N84-11376
Introductory studies of natural contamination and manmade pollution in Danish waters
03 p0399 N84-12608
Passive radiometry and other remote sensing data interpretation for oil slick thickness assesement, in an experimental case 03 p0399 N84-12609
Statistical lineament analysis in South Greenland based on LANDSAT imagery 23 p3770 N84-33901
Microwave radiometry for oil pollution monitoring, measurement and systems 23 p3781 N84-33975
TECHNICAL UNIV. OF ISTANBUL (TURKEY).
Dynamic applications of piezoelectric crystals. Part 3: Experimental studies 10 p1505 N84-19840
TECHNICAL UNIV. OF WARSAW (POLAND).
Properties of solutions of ordinary and partial differential equations describing the motion of mechanical systems
[ISSN-0208-5658] 07 p1058 N84-16852
TECHNICOLOR GOVERNMENT SERVICES, INC., MOFFETT FIELD, CALIF.
An evaluation of thematic mapper simulator data for the geobotanical discrimination of rock types in Southwest Oregon
[NASA-CR-166569] 12 p1828 N84-21915
Land cover and terrain mapping for the development of digital data bases for wildlife habitat assessment in the Yukon Flats National Wildlife Refuge, Alaska
14 p2166 N84-23971
TECHNICOLOR GRAPHIC SERVICES, INC., SIOUX FALLS, S. DAK.
Study of Thematic Mapper and Multispectral Scanner data applications 20 p3215 N84-30421
TECHNION - ISRAEL INST. OF TECH., HAIFA.
Ignition delay times of propene oxygen argon mixtures
[AD-A130464] 01 p0037 N84-10232
On the effect of gyroscopic forces on the instability of certain fluid-elastic systems. Part 1: Definitions
[PUBL-340] 04 p0532 N84-13499
Dynamics of a mobile tank partially filled with liquid: Equations of motion and their linearization
[WU-PAPER-174] 05 p0678 N84-14460
Coherently pumped two-frequency laser-type devices
[AD-A133439] 06 p0850 N84-15545
Fatigue crack propagation in Al-alloy lugs under constant amplitude and maneuver spectrum loading
[TAE-497] 06 p0857 N84-15585
Optimal reconstructions and n-widths
[AD-A133576] 06 p0902 N84-15853
Improved dynamic models for air combat analysis
[TAE-483] 06 p0905 N84-15876
On modifications of the Zakharov equation for surface gravity waves
[AD-A135050] 08 p1217 N84-17943
Emission and transmission of atmospheric radiation and their influence on the performance of electro-optics systems measurement, analysis and modelling
[AD-A137359] 10 p1479 N84-19685
Evolution of nonlinear wave groups on water of slowly-varying depth
[AD-A137420] 10 p1491 N84-19751
Measurement of atmospheric transmission over long paths in the infrared spectral region
[AD-A139619] 15 p2368 N84-25209
Calculation of aerodynamic characteristics of wings with thickness and camber by a new method based on the modified vortex lattice method
[TAE-493] 16 p2438 N84-25640
Design methodology for real-time distributed systems
[AD-A140886] 17 p2754 N84-27478
Evolution of nonlinear wave groups on water of slowly-varying depth
[AD-A141260] 18 p2837 N84-28008
The stability of atmospheric fields induced by localized topography and heat sources
[AD-A141357] 19 p3058 N84-29400
TECHNION RESEARCH AND DEVELOPMENT FOUNDATION LTD., HAIFA (ISRAEL).
Durability of structural adhesively bonded systems
[AD-A140714] 17 p2626 N84-26805
Formation of silicide contacts using codeposited refractory metals alloy films
[AD-A142879] 21 p3391 N84-31519
TECHNISCHE HOCHSCHULE, AACHEN (WEST GERMANY).
Experimental and theoretical studies of electron beam lithography for the fabrication of semiconductor circuits with submicron dimensions: Water distortion, comparison of results
[BMFT-FB-T-83-088] 02 p0216 N84-11414
Investigation of two-component two-phase channel flow with heat supply for application in inside cooled turbine blades 02 p0221 N84-11447
Investigation of the distancemeter Geodimeter 122 and the Autoranger-A 02 p0234 N84-11537
A contribution to the problem of vortex breakdown
03 p0325 N84-12125
The hydraulic multiaxes vibrator: Its capabilities to simulate real mechanical environments and to verify aerospace structures 03 p0339 N84-12198
Practical experience during installation of the large multiaxes vibration test facility SAMSON
03 p0339 N84-12199
Polyester fiber reinforcement of thermosetting molding compounds
[BMFT-FB-T-83-155] 05 p0661 N84-14342
Wind energy concentration within vortex flow fields and its utilization for the generation of energy, phase 1
[BMFT-FB-T-83-157] 05 p0700 N84-14591
Finite-difference approximations of the Navier-Stokes equations for incompressible flows
06 p0835 N84-15434
The change of the mechanical properties of steel strip in processing lines
[BMFT-FB-T-83-178] 08 p1135 N84-17383
Oligomerization and butenolysis of olefins by metathesis: Contributions to a chemical use of industrial C4-olefins
[BMFT-FB-T-83-184] 10 p1457 N84-19518
Very large scale integration logical and physical structures of VLSI systems
[BMFT-FB-T-83-267] 10 p1488 N84-19730
Integrated filters in MOS technology
[BMFT-FB-T-83-194] 10 p1590 N84-20419
Electron microscopy for damage analysis
14 p2125 N84-23738
Thermally induced fractures 14 p2126 N84-23743
Wear damage to materials 14 p2126 N84-23747
Decision algorithms in fuzzy situations
[AD-P002968] 14 p2201 N84-24205
Study on the effects of niobium, vanadium, titanium and/or rare Earth metals on the properties and processing of high-tensile, weldable structural steels
[BMFT-FB-T-83-318] 15 p2295 N84-24775
Unsteady interactions in supersonic compressor stages 16 p2490 N84-25972
Stochastic bounds on distributions of optimal value functions with applications to PERT, network flow and reliability
[REPT-81] 17 p2771 N84-27593
Chemical utilization of the olefinic byproducts in pyrolysis naphtha by carbonylation and alkylation reaction
[BMFT-FB-T-84-064] 19 p2985 N84-28914
Calculation of three dimensional viscous flows in annular cascades using parabolized Navier-Stokes equations
19 p3023 N84-29168
TECHNISCHE HOCHSCHULE, DARMSTADT (WEST GERMANY).
The kinetic theory of gases with applications in rarefied gas dynamics
[PREPRINT-746] 02 p0221 N84-11449
Presentation of a new adaptive intraframe prediction procedure
[IND-FB-112] 07 p0994 N84-16446

Circuit Board Intermediate Language (CBIL): A data base for circuit board description
[IND-FB-110] 09 p1369 N84-18942
Lifetime prediction for electronic components and circuits using the phase noise measuring method
[FB-111] 10 p1487 N84-19723
Radiation and particle emission from a 1.6 kJ plasma focus 10 p1581 N84-20362
Particle acceleration by electron plasma waves 10 p1582 N84-20369
A plasma focus with improved reproducibility 10 p1583 N84-20375
Dynamics of microstructures 10 p1583 N84-20376
Observation of nonlinear phenomena 10 p1584 N84-20385
A stochastic method in hydraulic design of open channels
[PREPRINT-790] 12 p1817 N84-21845
A solution to the problem of the flow around a circular cylinder between two parallel plates with the Monte Carlo method
[PREPRINT-791] 12 p1817 N84-21846
The probabilistic analysis on the influence of roughness to depth and velocity in open channels
[PREPRINT-792] 12 p1817 N84-21847
The invariance of cones and wedges under flows
[PREPRINT-796] 12 p1817 N84-21848
Galerkin's method and stabilization method for variable type equations
[PREPRINT-789] 12 p1895 N84-22346
Flight simulation investigations for the problem of flyability of noise optimal approach and takeoff paths
[IFD-3/83] 14 p2221 N84-24329
Micro-reactions of metal contacts on various types of GaAs surfaces
[AD-A139412] 14 p2242 N84-24464
Growth of electrically charged soot particles in flames 15 p2291 N84-24751
Digital sound transmission methods for TV sound tracks
[BMFT-FB-W-84-007] 19 p3009 N84-29075
Studies on the insulation effect of rubber springs in complex structures in the acoustic frequency range
[BMFT-FB-HA-84-001] 19 p3037 N84-29264
Experimental investigations on airfoils with different geometries in the domain of high angles of attack
[REPT-A-5/84-PT-1] 23 p3691 N84-33393

TECHNISCHE HOCHSCHULE, HANOVER (WEST GERMANY).

Coding of color video signals for digital magnetic tape recording at low bit rates
[BMFT-FB-T-83-185] 07 p0995 N84-16450

TECHNISCHE HOGESCHOOL, DELFT (NETHERLANDS).

An experimental investigation of the vortex flow over delta and double-delta wings at low speed 03 p0322 N84-12106
Multidimensional explicit difference schemes for hyperbolic conservation laws
[NASA-CR-172254] 03 p0425 N84-12778
Reflection and transmission of electromagnetic waves at a rough interface between two different media
[PB83-217588] 06 p0826 N84-15389
Diffraction of a plane electromagnetic wave by an elliptic cylinder: The multi-origin technique
[PB83-166769] 06 p0827 N84-15390
Computation of the temperature distribution due to eddy-currents in the wall of a power transformer
[PB83-217273] 06 p0831 N84-15410
Brief note of the stress intensity factor of elliptical cracks
[PB83-216911] 06 p0862 N84-15618
Introduction to the FORTRAN 14 programs Duvorol and Contact for the solution of 3 D elastostatic half-space contact problems with and without friction
[PB83-147421] 06 p0898 N84-15833
Constrained function minimization. Comparison of the augmented Lagrangian and sequentially increasing penalty method
[PB83-217265] 06 p0903 N84-15863
Least-square iterative techniques for solving integral equations
[PB83-166751] 06 p0903 N84-15864
Stability of a rubber half-space
[WTHD-159] 07 p0949 N84-16156
Agglomeration in suspension
[WTHD-160] 07 p0973 N84-16305
Wave propagation in a thin walled liquid filled initially stressed tube
[MEAH-24] 07 p1005 N84-16519
Approximation dispersion equations for thin walled liquid filled tubes
[MEAH-25] 07 p1005 N84-16520
Wave propagation in fluid lines
[MEAH-26] 07 p1005 N84-16521
The principle of virtual work and a principle of virtual heat as a basis for nonlinear finite element analysis
[WTHD-157] 07 p1005 N84-16522
Heron, volume 28, no. 1, 1983. Dynamic elasto-plastic model for reinforced concrete members
[PB84-109057] 08 p1172 N84-17635
A survey of the Control system Analysis and Synthesis Program (CASPAR) package for Aerospace Research
[VTH-LR-336] 10 p1423 N84-19304
Wind tunnel tests on an outer wing segment of the ASW-19X sailplane
[VTH-LR-369] 10 p1423 N84-19305
Centralized warning systems for the new generation of airliners
[VTH-LR-373] 10 p1424 N84-19315
Lecture notes on the principles and practice of airplane performance prediction. Part 1: Basic elements
[VTH-LR-385-VOL-1] 10 p1429 N84-19345
Lecture notes on the principles and practice of airplane performance prediction. Part 2: Point-performance in steady symmetric and unsymmetric flight
[VTH-LR-385-VOL-2] 10 p1429 N84-19346
Lecture notes on the principles and practice of airplane performance prediction. Part 3: Path performance in quasi steady and unsteady symmetric flight
[VTH-LR-385-VOL-3] 10 p1429 N84-19347
SKETCH: A computer program for plotting a transport airplane configuration in conceptual design
[VTH-LR-388] 10 p1429 N84-19348
Lecture notes on airplane stability and control 1, part 1
[VTH-LR-384-PT-1] 10 p1431 N84-19357
Lecture notes on airplane stability and control 1, part 2
[VTH-LR-384-PT-2] 10 p1432 N84-19358
Rapid solidification processing of Al-Cu-Li-Mg alloys
[VTH-LR-380] 10 p1464 N84-19560
Fatigue crack growth in aluminum alloy sheet material under constant amplitude and simplified flight simulation loading
[VTH-LR-381] 10 p1464 N84-19561
On bifurcation phenomena in conical flow patterns
[VTH-LR-378] 10 p1495 N84-19779
Radiative heat transfer, Favre-averaging and turbulence closure models for combustion applications
[VTH-LR-383] 10 p1496 N84-19780
A theory of filament wound pressure vessels
[VTH-LR-379] 10 p1503 N84-19823
A testing machine for statistical analysis of small imperfect shells, part 1
[VTH-LR-357-PT-1] 10 p1518 N84-19938
Interpolation between calculated stress intensity factors of semi and quarter elliptical cracks
[VTH-LR-368] 10 p1518 N84-19939
Comparison between empirical and calculated stress intensity factors of hole edge cracks
[VTH-LR-376] 10 p1518 N84-19940
Accuracy of visually perceived roll angle and roll rate using an artificial horizon and peripheral displays
[VTH-LR-377] 10 p1552 N84-20171
Linearization based on least squares approximation with application to finite dimensional system equations
[VTH-LR-364] 10 p1572 N84-20302
An introduction to the technique of singular perturbations applied to performance optimization problems in atmospheric flight mechanics
[VTH-LR-374] 12 p1769 N84-21540
Precise orbit determination for ERS-1
[ESA-CR(P)-1842] 12 p1776 N84-21591
The peel strength of aramid aluminum laminate (ARALL)
[VTH-LR-397] 12 p1790 N84-21673
Aramid Aluminum Laminate (ARALL): A material for the next generation of aircraft, a state of the art
[VTH-LR-400] 12 p1790 N84-21674
Solid fuel combustion chamber
[VTH-LR-392] 12 p1803 N84-21756
Investigation of the laminar turbulent boundary layer transition on the rotor blades of the 25 m wind turbine HAT
[VTH-LR-390] 12 p1817 N84-21844
Displacement angle relation for the cross crank mechanism: An exact kinematic measure synthesis
[WTHD-155] 12 p1823 N84-21886
Nondestructive ultrasonic investigation of modern fiber reinforced composites
[VTH-LR-382] 12 p1824 N84-21893
An assessment of the static strength of flush head aluminum alloy rivets in two grades of aramid aluminium laminate (ARALL) sheet
[VTH-LR-391] 12 p1827 N84-21913
Some aspects of the high equatorial orbit for the Tropical Earth Resources Satellite (TERS)
[VTH-LR-404] 12 p1904 N84-22400
Rapid solidification research on aluminum alloys at Delft University of Technology 15 p2295 N84-24771
Spherical propagation models for multipath-propagation predictions 15 p2324 N84-24956
Analysis of POPSAT gravity model errors
[ESA-CR(P)-1883] 17 p2615 N84-26737
Airfield Noise Evaluation Program (ANEP)
[VTH-LR-370] 17 p2725 N84-27342
Man-machine systems group
[WTHD-161] 20 p3263 N84-30703
The Man-Machine Systems Group 20 p3263 N84-30704
Summaries of doctorate theses 20 p3263 N84-30705
Supervisory control: Introduction and theory 20 p3263 N84-30706
Modeling the human operator's supervising behavior 20 p3264 N84-30707
A utility plant simulator for control room experiments 20 p3264 N84-30708
Fault management 20 p3264 N84-30709
A model of the shoulder girdle for use in rehabilitation 20 p3264 N84-30710
Information processing for use in the treatment of severely physically handicapped persons 20 p3264 N84-30711
Treatment of patients with a lesion of the brachial plexus 20 p3264 N84-30712
Evaluation of arm protheses for unilateral amputees 20 p3264 N84-30713
Proprioception 20 p3264 N84-30714
Communication aids for the handicapped 20 p3265 N84-30715
Human reliability analysis using event trees
[S/T-REPT-VOL-1-NO-3] 20 p3265 N84-30716
Two algorithms for the contact problem in elastostatics, 1982
[PB83-147678] 20 p3275 N84-30793
Space/Airborne Laser Ranging (SALR) as complement to groundbased transportable Satellite Laser Ranging (SLR) 24 p3906 N84-34742

TECHNISCHE HOGESCHOOL, EINDHOVEN (NETHERLANDS).

Partially ordered computations with applications to VLSI design 08 p1208 N84-17880
The Schuler principle: A discussion of some facts and misconceptions
[EUT-83-E-136] 10 p1427 N84-19330
On the application of biphase coding in data communication systems
[EUT-82-E-132] 10 p1483 N84-19698
Computation of the Wyner-Ziv rate distortion function
[EUT-83-E-140] 10 p1484 N84-19699
Data communications in the mobile radio channel
[EUT-83-E-142] 10 p1484 N84-19700
The Page Matrix: An excellent tool for noise filtering of Markov parameters, order testing and realization
[EUT-82-E-127] 10 p1489 N84-19735
Arcing phenomena in high voltage fuses
[EUT-83-E-137] 10 p1489 N84-19736
Interruption of a dry-type transformer in no-load by a vacuum circuit-breaker
[EUT-83-E-141] 10 p1489 N84-19737
The Pascal Plus (PAP) preprocessor: A precompiler for a language for concurrent processing on a multiprocessor system
[EUT-82-E-130] 10 p1565 N84-20254
Markovian models of a transactional system supported by checkpointing and recovery strategies. Part 1: A model with state-dependent parameters
[EUT-82-E-128-PT-1] 10 p1566 N84-20260
Markovian models of a transactional system supported by checkpointing and recovery strategies. Part 2: AA model with a specified number of transactions between checkpoints
[EUT-82-E-129-PT-2] 10 p1566 N84-20261
Job handling in a network of distributed processors
[EUT-82-E-131] 10 p1566 N84-20262
Time optimal control of a crane
[EUT-83-E-135] 10 p1568 N84-20271
A single server queue with mixed types of interruptions: Application to the modeling of checkpointing and recovery in a transactional system
[EUT-83-E-138] 10 p1574 N84-20315
Two-dimensional MHD boundary layers in argon-cesium plasmas
[EUT-83-E-139] 10 p1587 N84-20400
A method for solving Boltzmann's equation in semiconductors by expansion in Legendre polynomials
[EUT-83-E-134] 10 p1590 N84-20420
Measurement and calculation of parameters in the silox diffusion process
[EUT-83-E-133] 13 p2048 N84-23289
Computation of the fluid-borne noise in hydrostatic systems and ways to decrease it
[BMFT-FB-HA-84-023] 21 p3403 N84-31593
On Froude's number and the thickness of bones during growth 23 p3807 N84-34139

TECHNISCHE HOGESCHOOL TWENTE, ENSCHEDE (NETHERLANDS).
Edge- and contour detection for correction of low-pass filtered images
[PB83-217489] 06 p0918 N84-15969
Tolerance analysis and related measurements on MVL-CCD's (Multiple-valued-Charge-Coupled Devices)
[AD-P002346] 14 p2191 N84-24137

TECHNISCHE PHYSISCHE DIENST TNO-TH, DELFT (NETHERLANDS).
Visualization of patterns corresponding to the Fourier components of a vibration by interference holography
[TPD-1982-0-1] 02 p0222 N84-11453
Measurements of the impulse response and reverberation underwater in the depressurized towing tank MARIN
[TPD-208.730/1] 12 p1900 N84-22374
The measurement of mechanical point admittances by means of hammer excitation and tape recording. Part 1: A feasibility study
[TPD-308.780/1-VOL-1] 12 p1900 N84-22375
The measurement of mechanical point admittances by means of hammer excitation and tape recording. Part 2: Measuring and processing rules
[TPD-308.780/2-VOL-2] 12 p1900 N84-22376
On the measurement of structure-borne sound energy flow along pipes. Part 3: Analysis of systematic and random errors
[TPD-308.785/1] 12 p1900 N84-22377
Structure-borne sound transfer functions of a Dunlop Super "D" flexible mounting
[TPD-408.870/1] 17 p2763 N84-27552
Activities of the Technical Physics Service of the Dutch Central Organization for Scientific Research, past and present 23 p3845 N84-34393

TECHNISCHE UNIV., BERLIN (WEST GERMANY).
On Fuchsian groups of accessible type 04 p0576 N84-13795
Some aspects of two-dimensional compressible turbulent boundary layers 06 p0837 N84-15456
Reliability of electrical machines and drives, part 1
[BMFT-FB-T-83-163-PT-1] 07 p0999 N84-16480
Reliability of electrical machines and drives, part 2
[BMFT-FB-T-83-164-PT-2] 07 p0999 N84-16481
Suitability of viscoelastic materials for nutation damping of spin-stabilized satellites
[ILR-55] 09 p1272 N84-18307
Design of a project plan for the establishment of a lunar factory
[ILR-MITT-123] 10 p1435 N84-19379
Development of a wind tunnel test section with adaptive flexible walls for three-dimensional flow
[BMFT-FB-W-83-026] 10 p1495 N84-19776
Simulation analysis and derivation of accuracy requirements for future terminal area navigation. Part 1: Single aircraft analysis
[BMFT-FB-W-83-035-PT-1] 12 p1768 N84-21535
Simulation analysis and derivation of accuracy requirements for future terminal area navigation. Part 2: Multi aircraft analysis
[BMFT-FB-W-83-036-PT-2] 12 p1769 N84-21536
Running stability of large rotor bearing foundation models
[ILR-MITT-124/1983] 12 p1823 N84-21887
A short note on recent advances in the adaptive wall technique for 3D-model tests at the TU-Berlin 14 p2095 N84-23571
Desulfurization of hot reducing gas by means of metal oxides in a fixed bed reactor
[BMFT-FB-T-84-015] 16 p2463 N84-25783
Structure and mechanical properties in the Al2O3-MgO system 19 p2996 N84-28984
Shaft-hub deformation analysis by means of holography
[SCHR-KONSTR.TECH-5] 19 p3028 N84-29204
Research activities. Part 1: Statements
[ISBN-3-7983-0959-0] 20 p3321 N84-31082
Compact receivers for Shuttle Imaging Radar (SIR)-B SAR mission 23 p3778 N84-33953

TECHNISCHE UNIV., BRUNSWICK (WEST GERMANY).
Observations of hydromagnetic turbulence in the solar wind 03 p0467 N84-13074
Influence of windshear on flight safety 06 p0776 N84-15088
Procedure of treating a case of damage 14 p2125 N84-23735
Classification, causes, and characteristics of fractures 14 p2125 N84-23736
Microscopic and macroscopic appearance of ductile violent fractures (slide fractures) 14 p2125 N84-23739
Macroscopic appearance of vibratory fractures 14 p2126 N84-23741
Numerical mathematics by vector calculation: Theory and practical experiments 16 p2549 N84-26356
On-line acquisition and processing of flight mechanical data on board the research aircraft of the Technische Universitaet, Brunswick 17 p2587 N84-26585
Investigation of the technology of the microwave landing system Time Reference Scanning Beam (TRSB)
[BMFT-FB-W-84-008] 19 p2962 N84-28774

TECHNISCHE UNIV., CLAUSTHAL-ZELLERFELD (WEST GERMANY).
Development of the texture and plastic anisotropy in steels upon hot rolling, transformation and cold rolling
[BMFT-FB-T-83-219] 10 p1463 N84-19559
Internal iteration methods 16 p2541 N84-26306
Reaction kinetics in glass melts. Corrosion of SiO-2. TEXUS 4 project 18 p2819 N84-27900

TECHNISCHE UNIV., DARMSTADT (WEST GERMANY).
Tidal effects in geodetic observations 07 p1030 N84-16676
Geodetic aspects of ESA projects, studies and investigations 07 p1030 N84-16677
A note on atmospheric effects in the Earth's rotation 07 p1030 N84-16678

TECHNISCHE UNIV., GRAZ (AUSTRIA).
Actitities report on the projet DESBOD
[REPT-5] 03 p0460 N84-13025
Geodesy and Global Geodynamics 07 p1028 N84-16665
Variational methods in Earth rotation 07 p1030 N84-16673
Plasma processes caused by an electron beam injected from a high altitude rocket probe. Part 1: Neutralization processes
[IWF-8302] 17 p2728 N84-27363
Plasma processes caused by an electron beam injected from a high altitude rocket probe. Part 2: Studies of beam-plasma discharge
[IWF-8303] 17 p2728 N84-27364
Measurement of nitric oxide in the equatorial D-region and other relevant parameters
[IWF-8304] 17 p2728 N84-27365
The magnetic field experiment for the Venus-Halley (VEGA) mission
[IWF-8301] 17 p2777 N84-27633

TECHNISCHE UNIV., FREISING (WEST GERMANY).
The X, and L-band radar backscatterer analysis of agricultural crops in West Germany 23 p3767 N84-33879

TECHNISCHE UNIV., HANOVER (WEST GERMANY).
Albedo of the Sahara 10 p1534 N84-20052
Geometrically nonlinear analysis of beam-in-space structures
[MITT-28] 12 p1827 N84-21914
Meteorological and climatological conditions affecting the vertical structure of visibility in Northern Germany
[AD-A139126] 14 p2179 N84-24052
Critical slowing down and magnetically-induced self-pulsing in a sodium-filled Fabry-Perot resonator 14 p2240 N84-24449
Detection of errors in the functional adjustment model 16 p2505 N84-26074
Meteorological measurements in the Northern German coastal area for wind energy prospection
[BMFT-FB-T-84-017] 16 p2529 N84-26241
Computation of a high resolution European Gravimetric Geoid (EGG 1) 17 p2727 N84-27356
Development of a production method for hard dielectric coating systems
[BMFT-FB-T-84-116] 23 p3727 N84-33621
Meteorological and climatological conditions affecting the vertical structure of visibility in northern Germany
[AD-A144352] 24 p3934 N84-34902

TECHNISCHE UNIV., MUNICH (WEST GERMANY).
Gust alleviation 02 p0181 N84-11180
Partitioned Runge-Kutta procedures for numerical solution for nonstiff and stiff initial value problems
[TUM-M8304] 02 p0279 N84-11828
High-sensitivity mass spectrometry with a tandem accelerator
[DE83-017914] 03 p0350 N84-12274
Establishing observation equations by means of series expansion into eigenfunctions
[TUM-MITT-163] 05 p0739 N84-14851
Fundamental approaches for determining the radiation budget (and corresponding activities at Meteorologisches Institut, Munich (MIM) and Institut fuer Physik der Atmosphaere (IPA)) 10 p1535 N84-20053
The shortwave radiation budget depending on the optical parameters of the atmosphere 10 p1535 N84-20054
Accuracy of the short wave radiation budget derived from Meteosat-VIS-data 10 p1535 N84-20055
Chemical and isotopic measurements of micrometeoroids by secondary ion mass spectrometry (A0187-2) 15 p2276 N84-24670
On a series of problems with machines: Costs of modernization and storage in case of demand
[TUM-M8312] 16 p2475 N84-25863
POPSAT: A candidate satellite system for solid Earth applications and sciences. Preliminary feasibility study. Volume 1: Summary
[ESA-CR(P)-1882-VOL-1] 17 p2614 N84-26735
POPSAT: A candidate satellite system for solid Earth applications and sciences. Preliminary feasibility study. Volume 2: Development program
[ESA-CR(P)-1882-VOL-2] 17 p2614 N84-26736
A concept for the processing and display of Thematic Mapper data 20 p3214 N84-30417
Modular Optoelectronic Multispectral Scanner (MOMS) program outline and future aspects 23 p3764 N84-33861
Modular Optoelectronic Multispectral Scanner (MOMS)-01 on STS-7 and STS-11: Missions and results 23 p3765 N84-33862
The information network for a real-time controlled data acquisition of the Modular Optoelectronic Multispectral Scanner (MOMS) 23 p3765 N84-33863
Spectral significance of Modular Optoelectronic Multispectral Scanner (MOMS) versus LANDSAT data and future aspects: Preliminary results 23 p3765 N84-33864
Modular Optoelectronic Multispectral Scanner (MOMS), interpretation and evaluation of the MOMS-image Arica, west coast of South America 23 p3765 N84-33866
The Pilbara district in northwestern Australia: A case study for the geological application of Modular Optoelectronic Multispectral Scanner (MOMS) and LANDSAT data 23 p3765 N84-33867
The applicability of improved remote sensing data for lithological and structural mapping 23 p3770 N84-33899
Laser remote sensing measurements of natural target reflectivities 23 p3782 N84-33983
Center of mass correction and its confidence for the Precise Orbital Positioning Satellite (Popsat) 24 p3906 N84-34738
Systems analysis and computer simulation studies of the laser ranging measurement process 24 p3906 N84-34739
Spectral analysis of (very) hot stars: Methods and results 24 p3971 N84-35140

TECHNISCHE UNIV., VIENNA (AUSTRIA).
Anisotropy and microstructure of Sm2(Co, Fe, Cu, Zr)17 magnetic materials
[AD-A131961] 03 p0352 N84-12291
Rectification of multispectral scanner images
[GEOWISS-MITT-24-1983] 03 p0402 N84-12628
EDDA: A very high level data flow specification language 05 p0722 N84-14735
Surface analysis by particle beams 06 p0814 N84-15301
Prospects of laser communications in space 24 p3903 N84-34718
Experimental assessment of semiconductor lasers for optical data links in space 24 p3905 N84-34729
Receiver concepts for data transmission at 10 microns 24 p3905 N84-34732

TECHNISCHE UNIV. MUNICH, GARCHING (WEST GERMANY).
Use of remote sensing methods for the ecological mapping project of the European community 03 p0395 N84-12580
The modular optoelectronic scanner (MOMS) on STS-7, June 83 03 p0396 N84-12589
Flow technical problems with transitions between partial and complete filling and with flow measurement in channel sections.
[TUM-SFB-81] 08 p1160 N84-17552
Requirements for spaceborne remote sensing in geology 08 p1175 N84-17657
Remote sensing for geology 08 p1177 N84-17668

TECHNISCHER UEBERWACHUNGS-VEREIN BAYERN E.V., MUNICH (WEST GERMANY).
Developing of practical methods for the determination of the stagnation temperature and the durability of solar collectors
[BMFT-FB-T-83-227] 10 p1530 N84-20024

TECHNO SYSTEM DEVELOPMENTS, NAPLES (ITALY).
Multipoint method for sample temperature measurement in a mirror furnace
[TS-14-83] 23 p3752 N84-33789

TECHNOLOGY AND MANAGEMENT SYSTEMS, INC., BURLINGTON, MASS.
Unconfined vapor cloud explosions: A review of recent theories and experiments 06 p0835 N84-15439

TECHNOLOGY DEVELOPMENT CORP., SANTA CLARA, CALIF.
Data engineering systems: Computerized modeling and data bank capabilities for engineering analysis 12 p1873 N84-22203

TECHNOLOGY DEVELOPMENT OF CALIFORNIA, ARLINGTON, TEX.
System planning tool to measure cost avoidance resulting from independent assessment techniques applied to test program software development
[AD-P003588] 21 p3340 N84-31193
TECHNOLOGY, INC., SAN ANTONIO, TEX.
Stress assessment through voice analysis
[AD-A132577] 04 p0573 N84-13773
N1 and P1 components of the visual evoked response in humans. A topographical and functional comparison
[AD-A137030] 10 p1547 N84-20141
TECSI-SOFTWARE, PARIS (FRANCE).
Coherent management support in the Ada environment 05 p0724 N84-14748
TEL-AVIV UNIV. (ISRAEL).
A study of the angular radiation of Smith-Purcell radiation
[AD-A130095] 01 p0141 N84-10925
Some double-valued representations of the linear groups
[DE84-001525] 04 p0583 N84-13913
On the relationship between transitional and fully turbulent shear flow
[AD-A133808] 05 p0680 N84-14469
Mutual adaptiveness of man and machine in information acquisition tasks
[AD-A135449] 08 p1216 N84-17932
Operational soil moisture predicted model
[AD-A136381] 09 p1337 N84-18729
The efficient use of spectral and finite difference methods for the solution of certain hyperbolic and parabolic problems
[AD-A139477] 14 p2214 N84-24299
The effective behavior of inelastic composites 15 p2308 N84-24850
Coastal bathymetry and currents from LANDSAT data 17 p2718 N84-27303
Dynamics of large molecules and molecular clusters
[AD-A143386] 22 p3560 N84-32542
Manipulation of the mixing process between streams of different velocity and temperature in the presence of pressure gradient
[AD-A143467] 22 p3593 N84-32757
TELDIX LUFTFAHRT-AUSRUESTUNGS G.M.B.H., HEIDELBERG (WEST GERMANY).
A high resolution stepping motor 09 p1297 N84-18476
A double gimballed momentum wheel for precision 3-axis attitude control 15 p2266 N84-24608
Pointing, acquisition and tracking for intersatellite optical data links 24 p3905 N84-34735
TELECOM AUSTRALIA RESEARCH LABS., MELBOURNE.
Review of activities, 1982 - 1983
[ISSN-0314-1357] 05 p0766 N84-15023
Use of plain copper conductors in lieu of tinned-copper for internal cables 11 p1719 N84-21213
Behaviour of four non-migratory antioxidants in solid polyethylene insulation 11 p1721 N84-21228
TELEDYNE BROWN ENGINEERING, COLORADO SPRINGS, COLO.
History of on-orbit satellite fragmentations
[NASA-CR-171814] 24 p3859 N84-34461
TELEDYNE BROWN ENGINEERING, HUNTSVILLE, ALA.
Payload missions integration
[NASA-CR-170902] 01 p0027 N84-10171
Payload missions integration
[NASA-CR-170949] 06 p0794 N84-15171
Payload missions integration
[NASA-CR-170977] 09 p1260 N84-18225
Radome analysis
[AD-A136805] 10 p1481 N84-19677
Soviet military capabilities in space
[AD-P002156] 14 p2139 N84-23821
Research in solar physics: Some techniques for analyzing data from the ultraviolet spectrometer and polarimeter
[NASA-CR-171035] 15 p2428 N84-25584
TELEDYNE CAE, TOLEDO, OHIO.
Gas-turbine demonstration of pyrolysis-derived fuels
[DE83-013610] 01 p0053 N84-10342
A jet fuel starter for lowest system life cycle cost 03 p0335 N84-12179
Variable stator radial turbine
[NASA-CR-174663] 13 p1932 N84-22568
TELEDYNE ENERGY SYSTEMS, TIMONIUM, MD.
Development of electrolysis-cell separator for 1250C operation. Advanced alkaline electrolysis cell development
[DE84-000439] 04 p0530 N84-13484
TELEDYNE ENGINEERING SERVICES, WALTHAM, MASS.
Fatigue considerations in view of measured load spectra
[AD-A140221] 17 p2679 N84-27067
TELEDYNE GEOTECHNICAL, GARLAND, TEX.
Development of the model 52500 strain-inertial seismometer system (prototype)
[AD-A143572] 22 p3624 N84-32961
TELEDYNE RYAN AERONAUTICAL CO., SAN DIEGO, CALIF.
Firebolt derivative/ramjet engine feasibility investigation (core engine program): Program summary 20 p3144 N84-29962
TELEDYNE SYSTEMS CO., NORTHRIDGE, CALIF.
The application of standards to the TDY-750 (TIGERSHARK) mission computer
[AD-P003567] 21 p3337 N84-31172
TELEFUNKEN ELECTRONIC G.M.B.H., HEILBRONN (WEST GERMANY).
Production oriented 3-5 epitaxy
[BMFT-FB-T-83-286] 13 p2048 N84-23290
Improvements of properties and quality of LED displays
[BMFT-FB-T-84-043] 19 p3019 N84-29140
TELESOFT, SAN DIEGO, CALIF.
Seeding the Ada (trademark) software components industry
[AD-P003432] 20 p3272 N84-30764
TELESPAZIO, S.P.A., ROME (ITALY).
Traffic routing in a switched regenerative satellite. Volume 1, task 3: Traffic assignment
[ESA-CR(P)-1792-VOL-1] 08 p1147 N84-17463
Traffic routing in a switched regenerative satellite. Volume 2, task 4: Review (executive summary)
[ESA-CR(P)-1792-VOL-2] 08 p1147 N84-17464
ERS-1 Mission: Fucino Station
[ESA-CR(P)-1831-VOL-2] 12 p1809 N84-21792
TELSYSTEMES QUESTEL, PARIS (FRANCE).
Sharing command languages and software 11 p1751 N84-21428
TEMPLE UNIV., PHILADELPHIA, PA.
Dynamic aspects of the dye-sensitized photoconductivity of semiconductors
[DE84-001132] 04 p0615 N84-14059
Implementing an ADA kernel on NEBULA
[AD-A132745] 05 p0719 N84-14714
Amplitude distributions of the spider heartpulse in response to gravitational stimuli 09 p1353 N84-18841
Fluorescent guests in thermotropic and chirality in lyotropic liquid crystals
[AD-A139985] 15 p2413 N84-25487
TENNESSEE EASTMAN CORP., OAK RIDGE.
Structural analysis of the support system for a large compressor driven by a synchronous electric motor 22 p3610 N84-32873
TENNESSEE TECHNOLOGICAL UNIV., COOKEVILLE.
Design and evaluation of small water turbines
[DE84-000404] 04 p0544 N84-13586
Synthesis of N-substituted silaneamines: Monomeric precursors of silicon carbide-nitride fibers 06 p0929 N84-16033
Stiffness properties for dynamic modeling of composite graphite-epoxy cylindrical orthotropic shells 06 p0932 N84-16054
A perturbation method for self-coupled combustion-instability problems 15 p2317 N84-24904
Cleavage of aromatic carbon-carbon bonds
[DE84-010161] 22 p3543 N84-32432
One-sided r-reliable intervals and their associated confidences on the sum of two Continuous/Independent, random variables
[AD-A143387] 22 p3648 N84-33131
TENNESSEE UNIV., KNOXVILLE.
Dynamic model for an induction motor and its verification
[DE83-013738] 01 p0074 N84-10484
Evaluation of low melting halide systems for battery applications
[AD-A131330] 02 p0242 N84-11582
Information loss caused by noise in models for dichotomous items
[AD-A131369] 02 p0280 N84-11834
Nonlinear elastic behavior of piezoelectric trigonal crystals: Measurements on quartz and LiNbO3
[AD-A131350] 02 p0298 N84-11956
Acoustic streaming as a mechanism of the Ranque-Hilsch effect 03 p0319 N84-12088
Effect of noise in the three-parameter logistic model
[AD-A131867] 03 p0416 N84-12721
Rank modification method for certain singular systems of linear equations 03 p0427 N84-12797
An analysis of the interaction between a submerged jet and a receiver-diffuser in a reverse-flow diverter
[DE83-012593] 04 p0536 N84-13521
Preionization and start-up in the ISX-B Tokamak using electron cyclotron heating at 28 GHz
[DE84-002261] 06 p0920 N84-15984
Analytical and numerical solution for a solidifying liquid alloy slab 06 p0927 N84-16025
GP-B error modeling and analysis
[NASA-CR-170985] 09 p1372 N84-18960
State-space structures for the realization of low roundoff noise digital filters 13 p1987 N84-22900
Biaxial orientation and mechanical properties of amorphous polymers 13 p1998 N84-22965
Low temperature fluorination of aerosol suspensions of hydrocarbons utilizing elemental fluorine
[AD-A139958] 15 p2287 N84-24721
A tensor constitutive equation for turbulent flow 15 p2314 N84-24888
Spectral analysis of groove spacing on Ganymede 15 p2426 N84-25570
Measurement of local connective heat transfer coefficients of four ice accretion shapes
[NASA-CR-174680] 16 p2439 N84-25646
Finite elements in computational fluid dynamics 16 p2491 N84-25982
Spatial image processing masks from frequency domain specifications
[AD-P003126] 16 p2534 N84-26267
A study of thermal properties and the heating process in asphaltic concrete
[AD-A141691] 19 p3035 N84-29254
Differential charge transfer and continuum electron capture studies for ions in atomic hydrogen
[DE84-009675] 19 p3102 N84-29708
Fabrication of biaxially oriented films via poly(p-phenylene terephthalamide)/H2SO4 liquid crystalline dopes
[AD-A141755] 19 p3111 N84-29764
Capillary separations with calorimetric absorbance detection
[DE84-012466] 20 p3195 N84-30291
A combined thermodynamic study of nickel-base alloys
[DE84-013467] 21 p3368 N84-31368
Automatic camera tracking for remote manipulators
[DE84-011455] 21 p3407 N84-31608
Variability of practice and the transfer of training of motor skills
[AD-A142896] 21 p3459 N84-31942
TENNESSEE UNIV., TULLAHOMA.
Acoustic shocks in a variable area duct containing near sonic flows
[NASA-CR-172274] 06 p0908 N84-15897
TENNESSEE UNIV. SPACE INST., TULLAHOMA.
Studies of convection in a solidifying binary mixture at reduced gravity
[NASA-CR-170916] 02 p0190 N84-11231
The treatment of convected vortices in compressible potential flow 03 p0324 N84-12121
Statistical analysis of turbulence data from the NASA Marshall Space Flight Center atmospheric boundary layer tower array facility
[NASA-CR-3737] 04 p0566 N84-13730
The development of a digital processing system for accurate range determinations 06 p0930 N84-16046
Measurement of spray combustion processes 11 p1609 N84-20530
Numeric and fluid dynamic representation of tornadic double vortex thunderstorms
[NASA-CR-171023] 15 p2370 N84-25217
Transonic interference flow-field analysis for wing-body-pylon-store
[AD-A141811] 19 p2959 N84-28754
Theoretical analyses of baroclinic flows 24 p3923 N84-34830
TENNESSEE VALLEY AUTHORITY, CHATTANOOGA.
A microprocessor-based range meter for electric vehicles
[DE83-902237] 02 p0304 N84-11993
Battery test results on Gould GC2-EV200
[DE84-900635] 20 p3181 N84-30208
TVA and the electric vehicle
[DE84-900907] 20 p3318 N84-31065
Test and evaluation of the Philips Model PE 1701 and Lester Model 9865 electric vehicle battery chargers
[DE84-901243] 21 p3394 N84-31541
TENNESSEE VALLEY AUTHORITY, NORRIS.
A numerical simulation of heat transfer in evaporative cooling towers
[DE84-901142] 21 p3402 N84-31580
TERRA-MAR, MOUNTAIN VIEW, CALIF.
Alternative strategies for space station financing
[NASA-CR-175412] 11 p1752 N84-21437
TEST GROUP (6585TH), HOLLOMAN AFB, N. MEXICO
Transmitted thrust on a large dual rail rocket sled system
[AD-A137151] 11 p1621 N84-20608
TEST SYSTEMS, INC., PHOENIX, ARIZ.
MIL-STD-1553: Testing and test equipment
[AD-P003545] 21 p3333 N84-31149

TETRA TECH, INC., PASADENA, CALIF.
Techniques for measuring radiance in the air and sea
06 p0871 N84-15672
TEXAS A&M UNIV., COLLEGE STATION.
X-ray emission in heavy-ion collisions
[DE83-008776] 01 p0144 N84-10946
Thermodynamic properties for natural gas binaries
[PB83-228403] 01 p0157 N84-11031
Rarefaction velocities in shocked tantalum and the high-pressure melting point
[DE83-015916] 02 p0195 N84-11268
On surface circulation of the eastern north Pacific
02 p0257 N84-11682
Marine manganese accretions: Nodule micronodule comparisons among major ocean basins
02 p0257 N84-11683
Time series model identification by estimating information, memory and quantiles
[AD-A131155] 02 p0261 N84-11843
The SSME seal test program: Leakage tests for helically-grooved seals
[NASA-CR-170921] 03 p0383 N84-12495
Optimization of ultrasonic flaw detection in railroad rail
[PB83-236919] 03 p0386 N84-12518
Proceedings of the NASA Symposium on Mathematical Pattern Recognition and Image Analysis
[E84-10032] 03 p0392 N84-12557
Spline classification methods
03 p0393 N84-12564
Quantile data analysis of image data
03 p0393 N84-12565
Discrimination relative to measures of non-normality
03 p0393 N84-12566
Repeated-measures analysis of image data
03 p0393 N84-12567
A numerical study on the evolution of tornadoes
03 p0409 N84-12679
Laser-induced fluorescence line narrowing in atomic vapors
[DE83-018216] 04 p0541 N84-13558
The influence of convective activity on the vorticity budget
[NASA-CR-3752] 04 p0567 N84-13736
Time series long memory identification and quantile spectral analysis
[AD-A132240] 04 p0590 N84-13900
Research on composite materials for structural design
[AD-A134059] 05 p0645 N84-14242
Macrocycles containing tin. Syntheses of symmetrical macrocycles containing 2 or 4 diphenylstanna units
[AD-A133697] 05 p0659 N84-14329
Evaluation of fabric interlayers
[PB83-253245] 05 p0664 N84-14363
A user's guide to BISAM: The bivariate data modeling program
[AD-A132722] 05 p0729 N84-14786
Informative quantile functions and identification of probability distribution types
[AD-A132723] 05 p0740 N84-14861
Luminescence probe studies of nafion polyelectrolytes
[AD-A133519] 06 p0801 N84-15224
Development of visible/infrared/microwave agriculture classification and biomass estimation algorithms, volume 2
[E84-10059] 06 p0864 N84-15629
Investigation of the arc cloud complex
06 p0928 N84-16029
Phase averaged measurements of the coherent structure of a mach number 0.6 jet
[NASA-CR-175359] 07 p0945 N84-16134
Bit weighting and soft decision demodulation for image compression & error control
[AD-A134187] 07 p1054 N84-16825
Analytical study of the twin-jet shielding
[NASA-CR-175357] 07 p1069 N84-16943
Space Shuttle ice suppression system validation, volume 1
[NASA-CR-171740] 08 p1114 N84-17244
Space Shuttle ice suppression system validation, volume 2
[NASA-CR-171741] 08 p1114 N84-17245
Space Shuttle ice suppression system validation, volume 3
[NASA-CR-171742] 08 p1114 N84-17246
Thermophysical properties of gaseous carbon dioxide/water mixtures
[PB84-125228] 08 p1127 N84-17330
Fracture and contact problems for linearly viscoelastic material
[AD-A135111] 08 p1170 N84-17624
Mechanical and transport properties of rocks at high temperatures and pressures. Task 3. Mechanical properties of rocks at high temperatures and pressures
[DE84-003438] 08 p1188 N84-17740
Progress in numerical calculations of ion-atom collisions
[DE84-003405] 08 p1229 N84-18033
Learning from numerical calculations of ion-atom collisions
[DE84-003265] 08 p1229 N84-18035
Rotordynamic forces developed by labyrinth seals
[AD-A136217] 09 p1316 N84-18599
Identification of a volatile phytotoxin from algae
09 p1358 N84-18876
Science of integration
[AD-A135590] 09 p1364 N84-18906
Rotordynamic characteristics of the HPOTP (High Pressure Oxygen Turbopump) of the SSME (Space Shuttle Main Engine)
[NASA-CR-170987] 10 p1438 N84-19389
SSME interstage seal research
[NASA-CR-170995] 11 p1624 N84-20631
Modeling and robust control of a compliant robotic manipulator via the finite element method
11 p1703 N84-21102
Mach number correlation for a two-dimensional helicopter rotor-blade analysis in the tip region
12 p1765 N84-21509
Identification of airfoil characteristics for optimum wind turbine performance
12 p1765 N84-21510
Inverse transonic airfoil design methods including boundary layer and viscous interaction effects
[NASA-CR-173449] 12 p1765 N84-21514
On the effects of post cure cool down and environmental conditioning on residual stresses in composite laminates
12 p1788 N84-21663
Chemical properties and film casting of radiation grafted ion-containing polymers
[AD-A138551] 13 p1963 N84-22754
CONSERVB: A numerical method to compute soil water content and temperature profiles under a bare surface
[E84-10113] 13 p2005 N84-23006
A microwave systems approach to measuring root zone soil moisture
[E84-10114] 13 p2005 N84-23007
Bivariate quadratic splines on crisscross trianguiations
[AD-P002979] 14 p2202 N84-24215
The nature and use of formal control systems for management control and strategy implementation
[AD-A139083] 14 p2247 N84-24493
Balloon materials degradation (S1906)
15 p2273 N84-24646
An investigation into the injection molding of PMR-15 polyimide
[NASA-CR-173550] 15 p2301 N84-24810
Resonant scattering of waves in random particulate composites
15 p2310 N84-24861
Dynamic, steady-state crack propagation in linear isotropic viscoelastic material
[AD-P003114] 16 p2468 N84-25819
Area estimation using multiyear designs and partial crop identification
[E84-10151] 16 p2509 N84-26099
Luminescence titrations of polyelectrolytes
[AD-A140823] 17 p2619 N84-26763
Ion exchange selectivity of Nafion films on electrode surfaces
[AD-A140824] 17 p2620 N84-26764
Development of land based radar polarimeter processor system
[NASA-CR-173636] 17 p2652 N84-26960
Crop moisture estimation over the southern Great Plains with dual polarization 1.66 centimeter passive microwave data from Nimbus 7
[E84-10163] 17 p2710 N84-27255
Evaluation of dissociated and steam-reformed methanol as automotive engine fuels
[NASA-CR-168242] 18 p2821 N84-27909
Signal detection and block truncation coding for image compression
[AD-A141162] 18 p2829 N84-27958
The dynamic steady-state propagation of an anti-plane shear crack in a general linearly viscoelastic layer
[AD-A140980] 18 p2853 N84-28115
Factor stability and construct validation of Yukl's MBS (Managerial Behavior Survey) for military leadership
[AD-P003246] 18 p2904 N84-28413
Effects of confirmed and disconfirmed expectations: A naturally occuring experiment
[AD-A141857] 19 p3068 N84-29461
Multiple time series modeling and time series theoretic statistical methods
[AD-A141891] 19 p3093 N84-29644
Macrocycles containing tin. Synthesis and structure of 1,10-Diphenyl-1,10-Distannabicycle (8.8.8)Hexacosane
[AD-A142703] 20 p3145 N84-29966
A study of a two-frequency NMR maser
21 p3408 N84-31615
Environmental impact research program. An implicit, wiggle-free, and accurate upstream finite-difference algorithm for the 1-dimensional transport-diffusion equation
[AD-A143141] 21 p3436 N84-31802
Origin and evolution of the West Philippine Basin
21 p3439 N84-31820
Convergence tectonics of the Peru Trench: 8 deg S - 15 deg S latitude
21 p3440 N84-31824
Design of a composite wing extension for a general aviation aircraft
[NASA-CR-173832] 22 p3534 N84-32377
Development and characterization analysis of a radar polarimeter
[NASA-CR-175259] 22 p3598 N84-32785
Intermediate-energy nuclear theory
[DE84-012971] 22 p3654 N84-33161
High energy physics research at Texas Agriculture and Mining University
[DE84-011616] 22 p3655 N84-33167
An exploratory analysis of the relationship between media richness and managerial information processing
[AD-A143503] 22 p3674 N84-33293
TRANSEP: A program for high lift separated flow about airfoils
[NASA-CR-3376] 23 p3690 N84-33386
High performance liquid chromatographic studies of the ion exchange selectivity of Nafion
[AD-A144646] 24 p3881 N84-34585
Application of satellite data to tropic/subtropic moisture coupling
24 p3926 N84-34849
Radar analyses of mesoscale meteorological phenomena during the AVE/VAS correlation field experiment
24 p3932 N84-34889
VAS sounding data evaluation
24 p3933 N84-34893
TEXAS CHRISTIAN UNIV., FORT WORTH.
Synthesis of phosphorus-nitrogen polymers using Si-N-P reagents
[AD-A135224] 08 p1137 N84-17392
A twisted P-C double bond: Synthesis and structure of a (Methylene)phosphine Fe-CO-4 complex
[AD-A141502] 19 p2984 N84-28907
Substitution and addition reactions of a (Methylene)phosphine with alkyllithium reagents
[AD-A141512] 19 p2984 N84-28908
Synthesis and structure of sulfur derivatives of a (methylene)phosphine
[AD-A141513] 19 p2984 N84-28909
TEXAS DEPT. OF WATER RESOURCES, AUSTIN.
Climatic atlas of Texas
[PB84-162908] 14 p2182 N84-24074
TEXAS INSTRUMENTS, INC., DALLAS.
30/20 GHz spacecraft GaAs FET solid state transmitter for trunking and customer-premise-service application
[NASA-CR-168276] 07 p0997 N84-16463
GaAs FET logic at low temperatures
[AD-A135007] 08 p1150 N84-17483
Development of a solar energy system
[DE83-014236] 08 p1180 N84-17690
Development of a solar energy system: Executive summary
[DE83-014392] 08 p1181 N84-17693
A hybrid silicon membrane spatial light modulator for optical information processing 12 p1905 N84-22408
GaAs/GaAlAs bipolar heterojunction gate array
[AD-A138203] 12 p1913 N84-22466
Advances in spiral antenna technology
[AD-P003411] 19 p3015 N84-29115
TEXAS RESEARCH INST., INC., AUSTIN.
Effects of stress on permeation and polyurethane degradation
[AD-A140260] 16 p2472 N84-25841
TEXAS TECHNOLOGICAL UNIV., LUBBOCK.
Coordinated research program in pulsed power physics
[AD-A129554] 01 p0138 N84-10905
Space-variant optical systems
[AD-A130096] 01 p0146 N84-10961
Reverse bias second breakdown in power switching transistors
[AD-A130145] 02 p0213 N84-11391
Dynamic-stall regulation of the Darrieus turbine
[DE83-017994] 03 p0321 N84-12097
Nonlinear transformat
[NASA-CR-166506] 06 p0905 N84-15877
Mathematical methodology for evaluating simulation of flow in porous media
[DE84-004775] 09 p1316 N84-18601
Deep traps in AlGaAs layers at AlGaAs-GaAs interfaces
[DE84-005234] 11 p1745 N84-21387
Coordinated research program in pulsed power physics
[AD-A139321] 14 p2142 N84-23843

Nonlinear analysis of rectangular glass plates by Galerkin method
[PB84-159649] 15 p2302 N84-24819
Pulsed power research colloquium
[AD-A141318] 18 p2876 N84-26259
Review of research under the Joint Services Electronics Program
[AD-A141458] 19 p3013 N84-29100
Feedback systems and simultaneous design
[AD-A143547] 22 p3644 N84-33102
Space-variant optical systems
[AD-A143996] 23 p3825 N84-34259

TEXAS UNIV., ARLINGTON.
Finite element method for incompressible laminar boundary layer flows 08 p1096 N84-17126
Plasticity of laminated composites 15 p2308 N84-24849

TEXAS UNIV., AUSTIN.
A mechanical proof of the turing completeness of pure LISP
[AD-A130625] 01 p0121 N84-10785
Proof-checking, theorem proving and program verification
[AD-A130638] 01 p0123 N84-10799
A fully automatic proof of an ordered tree insertion function
[AD-A130720] 01 p0133 N84-10868
Impact of clumps on plasma stability and the nature of turbulence in a saturated state
[DE83-012927] 01 p0149 N84-10980
Variational method for the three-dimensional inverse-equilibrium problem in toroids: Part 2
[DE83-012925] 01 p0149 N84-10981
Heat conduction process in Tokamak hot-ion plasmas
[DE83-014884] 01 p0150 N84-10987
Cognitive processes and knowledge structures used in solving physics problems
[PB83-225177] 01 p0157 N84-11033
A finite element study of instabilities in rubber elasticity 02 p0199 N84-11293
Effects of rigid inclusions on wave propagation
[AD-A131366] 02 p0209 N84-11366
Electronics research at the University of Texas at Austin
[AD-A131130] 02 p0213 N84-11397
Analysis of nonclassical friction laws for contact problems in elastostatics 02 p0230 N84-11511
The Regulatory Functions of Calcium and the Potential Role of Calcium in Mediating Gravitational Responses in Cells and Tissues
[NASA-CP-2286] 02 p0262 N84-11720
Evidence for a regulatory role of calcium in gravitropism 02 p0262 N84-11721
Summary of study group session discussions 02 p0264 N84-11739
Construction of three-dimensional vacuum magnetic fields with dense nested flux surfaces
[DE83-012600] 02 p0267 N84-11880
W decay in supergravity GUTS
[DE83-015144] 02 p0291 N84-11911
The polarization and anisotropy on large angular scales of the microwave background radiation in homogeneous cosmologies 02 p0306 N84-12007
Orbital resonances and planetary accretion in the early solar system evolution 02 p0307 N84-12016
An empirical Bayes approach to spatial analysis 03 p0393 N84-12563
Estimation of uncertainty in coal resources
[DE83-902538] 03 p0401 N84-12620
The use of a formal simulator to verify a simple real time control program
[AD-A131732] 03 p0420 N84-12745
Observations of soft X-ray fluctuations with an imaging array on TEXT
[DE83-018118] 03 p0447 N84-12938
Dynamical evolution of substucture in molecular clouds 03 p0462 N84-13043
The chemical evolution of the coma of comet P/Stephan-Oterma 03 p0464 N84-13055
Detection of cracks on highway pavements
[PB83-238204] 04 p0516 N84-13389
Finite-element analysis of incompressible laminar and turbulent flow with heat transfer
[DE84-000042] 04 p0536 N84-13523
Early mechanisms in radiation-induced biological damage
[DE84-001511] 04 p0572 N84-13765
Energetic-particle stabilization of ballooning modes in Tokamaks
[DE83-016205] 04 p0609 N84-14020
Hamiltonian formulation of reduced magnetohydrodynamics
[DE83-016758] 04 p0609 N84-14021
Variational theory of RF-driven currents
[DE83-016745] 04 p0609 N84-14022
Nonlinear kinetic theory of a single helicity tearing instability
[DE84-000049] 04 p0610 N84-14024
Linear relativistic gyrokinetic equation in general magnetically confined plasmas
[DE84-000048] 04 p0610 N84-14027
Do pions condense in neutron-star matter?
[DE84-000463] 04 p0620 N84-14093
Loop coalescence in flares and coronal X-ray brightening
[DE83-013070] 04 p0621 N84-14099
Suppression of interference flutter by composite tailoring 05 p0632 N84-14155
A study of magnetotelluric fields in laterally inhomogeneous Earth models 05 p0671 N84-14413
The local wavenumber spectrum and its applications in turbulence and noise 05 p0672 N84-14417
Computation of compressible flows using finite elements and optimization techniques 05 p0678 N84-14456
A finite element analysis of incompressible laminar and turbulent flow with heat transfer past irregular surfaces 05 p0682 N84-14485
Bottomside sinusoidal waves, a new class of equatorial plasma irregularities 05 p0705 N84-14628
Mathematical simulation of diver performance
[AD-A133844] 05 p0713 N84-14671
A language for the specification and representation of programs in a data flow model of computation 05 p0731 N84-14800
Performance analysis of loosely coupled computer systems 05 p0731 N84-14801
Light deflection and time delay in the solar gravitational field 05 p0746 N84-14900
Realization of first order optical systems using thin lenses
[DE84-002848] 05 p0747 N84-14909
The abundances and evolutionary state of the early R stars 05 p0764 N84-15010
Multishaker modal testing
[NASA-CR-170952] 06 p0847 N84-15521
Digital multishaker modal testing
[NASA-CR-170951] 06 p0847 N84-15522
Elimination of stochasticity in stellarators
[DE84-001560] 06 p0921 N84-15985
Nonlinear interaction of toroidicity induced drift modes
[DE84-001562] 06 p0921 N84-15987
Drift waves in rotating plasmas
[DE84-000391] 06 p0921 N84-15988
Sustained self-reversal in the reversed field pinch
[DE84-001559] 06 p0921 N84-15990
Energy stores and switches for rail-launcher systems
[NASA-CR-173249] 07 p0996 N84-16458
Finite element analysis of incompressible turbulent backstep flow with heat transfer
[DE84-003101] 07 p1003 N84-16502
Experimental apparatus for studying moving thermoacoustic sources
[AD-A134517] 07 p1010 N84-16549
Chemical composition of acid precipitation in Texas, volume 1
[DE84-900411] 07 p1027 N84-16659
Beat-wave current drive in a magnetized plasma
[DE84-001556] 07 p1077 N84-17003
APQ-102 imaging radar digital image quality study
[NASA-CR-171738] 08 p1143 N84-17435
A study of microwave and millimeter-wave quasi-optical planar mixers
[AD-A135252] 08 p1144 N84-17443
Earth strain measurements with the transportable laser ranging system: Field techniques and planning
[NASA-CR-175150] 08 p1186 N84-17725
Wave propagation study of the central Mediterranean Sea using ocean bottom seismometers
[AD-A135484] 08 p1195 N84-17790
Mathematical simulation of the cardiopulmonary system
[AD-A135460] 08 p1200 N84-17822
A distributed procedure to detect and/or deadlock
[AD-A135459] 08 p1212 N84-17904
Preserving asymmetry by symmetric processes and distributed fair conflict resolution
[AD-A135458] 08 p1223 N84-17986
Distributed algorithms for various problems
[AD-A135452] 08 p1240 N84-18105
Studies of polymer-bound macrocyclic polytertiary phosphines
[AD-A135718] 09 p1288 N84-18408
Quantization and detection in signal processing
[AD-A136560] 09 p1299 N84-18494
Development of an advanced ocean-bottom sensor system
[AD-A135901] 09 p1345 N84-18788
Inhibition of gravitropism in oat coleoptiles by calcium chelation 09 p1352 N84-18831
Particle simulation of drift waves in a sheared magnetic field
[DE84-004026] 09 p1393 N84-19093
The construction of a highly transportable laser ranging station
[NASA-CR-175400] 10 p1500 N84-19803
Analysis of a high-strength concrete model under biaxial compression
[AD-A137050] 10 p1518 N84-19935
Continuity and internal properties of Gulf Coast sandstones and their implications for geopressured fluid production
[DE84-004396] 10 p1526 N84-19996
Adapting iterative algorithms for solving large sparse linear systems for efficient use on the CDC CYBER 205 10 p1560 N84-20220
Ray modeling methods for range dependent ocean environments
[AD-A137202] 10 p1569 N84-20278
Non-gravitational force modelling and altimeter measurement modelling for SEASAT-A satellite 11 p1621 N84-20609
Development of catalysts for the utilization of carbon monoxide
[DE84-005475] 11 p1629 N84-20659
Relaxation, regularity and operator theoretical methods for a class of problems in nonlinear elastostatics 11 p1666 N84-20871
Nonlinear trapped electron response for drift wave turbulence in Tokamaks
[DE84-005385] 11 p1737 N84-21335
Electromagnetic universes 11 p1757 N84-21468
Analysis of Sweet Lake geopressured-geothermal aquifer
[DE84-006053] 12 p1836 N84-21972
Volumetric representation for object model acquisition 12 p1870 N84-22189
The extreme point characterizations of semi-infinite dual non-archimedean balls
[AD-A138016] 12 p1893 N84-22330
Renormalization theory of stationary homogeneous strong turbulence in a collisionless plasma
[DE84-006724] 12 p1910 N84-22443
Theory of anomalous tearing mode growth and the major Tokamak disruption
[DE84-005383] 12 p1911 N84-22448
Quantification of subjective ratings through conjoint measurement analysis
[AD-A138810] 13 p1930 N84-22554
Dynamics analysis of electrodynamic satellite tethers. Equations of motion and numerical solution algorithms for the tether
[NASA-CR-171777] 13 p1937 N84-22598
Geology, geochemistry, and geochronology of volcanic rocks between Cuauhtemoc and La Junta, central Chihahua, Mexico 13 p2014 N84-23066
Microscopic study of the influence of impurities on interface bonding
[AD-A139300] 14 p2120 N84-23705
Theoretical studies of solids under extreme conditions
[AD-A139352] 14 p2132 N84-23778
Artificial mass concept and transonic viscous flow equation
[AD-P002946] 14 p2198 N84-24186
Computer modeling of fast collisionless reconnection
[DE84-006714] 14 p2229 N84-24367
Study of generalized toroidal cusp configurations
[DE84-006662] 14 p2229 N84-24369
Free-boundary stability of straight stellarators
[DE84-008272] 14 p2230 N84-24378
Optical bistability with two-level atoms 14 p2231 N84-24383
Charge separation on semiconductor surfaces: Basic aspects
[DE84-007214] 14 p2244 N84-24472
Survival probability of non-linear oscillators subjected to broad-band random disturbances 15 p2312 N84-24875
On supernovae as a source of interstellar dust: The current observational picture 16 p2569 N84-26488
Infrared polarimetry of young clusters 16 p2572 N84-26505
Analysis of transmission lines on semiconductor substrate
[AD-A140711] 17 p2663 N84-26987
Acoustic attenuation in ocean sediments found in shallow water regions
[AD-A140869] 17 p2763 N84-27550
Thin film models of SMSI (Show Strong Metal-Support Interactions) catalysts: Pt on oxidized titanium
[AD-A140569] 17 p2767 N84-27572
Accretion disks, precessing jets and the asymmetric emission lines of QSOs
[NASA-CR-173632] 17 p2774 N84-27613

Computer-aided design of millimeter wave e-plane filters
[AD-A141016] 18 p2833 N84-27987
Microdensitometer errors: Their effect on photometric data reduction 18 p2839 N84-28024
Optimal and suboptimal estimation of nonlinear stochastic systems
[AD-A140929] 18 p2925 N84-28546
On supernovae as a source of interstellar dust. The current observational picture 18 p2947 N84-28686
Infrared polarimetry of young clusters 18 p2950 N84-28704
The duality between expected utility and penalty in stochastic linear programming
[AD-A141393] 19 p3075 N84-29513
A method for constructing a unimodal inferential or prior distribution
[AD-A141389] 19 p3083 N84-29566
A limit theorem on characteristic functions via an extremal principle
[AD-A141390] 19 p3083 N84-29567
Pareto-optimality, efficiency analysis and empirical production functions
[AD-A141768] 19 p3088 N84-29601
Stability and capture of asteroids 19 p3118 N84-29811
Inclined geosynchronous satellites 19 p3119 N84-29820
Minor planet observations and a dynamical reference system 19 p3120 N84-29828
NASA-Texas Planetary Program
[NASA-CR-173798] 19 p3121 N84-29842
A study of distributed millimeter-wave isolators
[AD-A142729] 20 p3179 N84-30189
Geothermal potential along the Balcones/Ouachita trend, central Texas: Ongoing assessment and selected case studies
[DE84-010826] 20 p3241 N84-30578
Spinorial relativistic rotator: The transformation from quasi-Newtonian to Minokowski coordinates
[DE84-009091] 20 p3282 N84-30839
Nonlinear dynamics of magnetic islands with curvature and pressure
[DE84-010968] 20 p3285 N84-30859
Research program in elementary particle theory
[DE84-011502] 20 p3297 N84-30933
Interaction of the precessional wave with free-boundary Alfven surface waves in tandem mirrors
[DE84-012527] 20 p3307 N84-31003
Stability and convergence of underintegrated finite element approximations 21 p3420 N84-31696
Lineaments of Texas: Possible surface expressions of deep-seated phenomena
[DE84-010827] 21 p3445 N84-31858
Fatigue behavior of longitudinal transverse stiffener intersection
[PB84-202092] 22 p3612 N84-32887
Fatigue behavior of welded joints subjected to variable amplitude stresses
[PB84-207620] 22 p3612 N84-32888
The effect of queueing disciplines on response times in distributed systems
[DE84-012639] 22 p3641 N84-33086
Relative motion characteristics of 2 near-Earth Satellites
[NASA-CR-173887] 22 p3678 N84-33316
Parabolized Navier-Stokes solutions for hypersonicflow fields 23 p3688 N84-33373
A study of the tribological properties of graphite fiber-glass matrix composites 23 p3710 N84-33520
Thermodynamic analysis of journal bearings operating under steady state loading in laminar regime 23 p3756 N84-33809
Analysis of Laramide and younger deformation of a segment of the Big Bend region, Texas 23 p3794 N84-34060
Depositional history and sedimentology of upper cretaceous mancos shale and lower mesaverde group. Northwestern Colorado: Migrating shelfbar and wave-dominated shoreline deposits 23 p3796 N84-34068
Paleogeography and tectonics of the Redding section, Eastern Klamath Belt, Northern California 23 p3796 N84-34070
Geomorphology and hydrogeology of the Edwards Plateau karst, central Texas 23 p3796 N84-34071
Modeling and control of an on-board oxygen generation system 23 p3811 N84-34164
Low radio frequency extragalactic variable sources 23 p3845 N84-34390
Nonlinear interaction of two noncollinear sound waves in a rectangular waveguide
[AD-A144440] 24 p3895 N84-34666
Rehosting the theorem prover
[AD-A144356] 24 p3946 N84-34987
Program verification
[AD-A144360] 24 p3946 N84-34988
Ordered incidence geometry and the geometric foundations of convexity theory
[AD-A144286] 24 p3951 N84-35015
A computational logic with quantifiers
[AD-A144335] 24 p3951 N84-35016
Information-theoretic non-parametric unimodal density estimation
[AD-A144522] 24 p3953 N84-35035

TEXAS UNIV., DALLAS.
High power fast pulse lasers 17 p2673 N84-27033
On the statistical analysis of cloud seeding experiments 17 p2733 N84-27370
Study of outgassing and decomposition of Space Shuttle heat protection tiles, fillers and adhesive
[NASA-CR-173974] 24 p3860 N84-34465

TEXAS UNIV., EL PASO.
Thermal and electric energy and desalination with a salt gradient solar pond
[DE84-900416] 08 p1181 N84-17691
Application of Magsat lithospheric modeling in South America. Part 1: Processing and interpretation of magnetic and gravity anomaly data
[E84-10115] 13 p2005 N84-23008
Application of MAGSAT to lithospheric modeling in South America. Part 2: Synthesis of geologic and seismic data for development of integrated crustal models
[E84-10126] 15 p2355 N84-25128
A crustal structure study of South America 15 p2357 N84-25139

TEXAS UNIV., GALVESTON.
Formation and remodeling of the early wound matrix
[AD-A134576] 08 p1201 N84-17833

TEXAS UNIV. AT DALLAS, RICHARDSON.
An improved ion drift meter
[AD-A140043] 15 p2283 N84-24707
Drift scintillation meter
[AD-A142523] 20 p3302 N84-30968

TEXAS UNIV. HEALTH SCIENCE CENTER, DALLAS.
Biochemical and histochemical adaptations of skeletal muscle to rat suspension 09 p1354 N84-18849
Cardiac chamber volumes by echocardiography using a new mathematical method: A promising technique for zero-G use 09 p1358 N84-18874

TEXAS UNIV. HEALTH SCIENCE CENTER, HOUSTON.
Growth and differentiation of mammalian embryonic tissues exposed to hypergravity in vivo and in vitro 09 p1357 N84-18869
System for the management of trauma and emergency surgery in space
[NASA-CR-175439] 11 p1693 N84-21045

TEXAS UNIV. HEALTH SCIENCE CENTER, SAN ANTONIO.
The effects of organophosphorus anticholinesterase compounds on brain glucose and energy metabolism
[AD-A137819] 11 p1695 N84-21058
The role of neural reflexes in control of the cardiovascular system during stress
[AD-A140938] 18 p2899 N84-28393

TEXAS WOMAN'S UNIV., HOUSTON.
Crew and life support: EVA 09 p1268 N84-18279

TEXSTAR CORP., GRAND PRAIRIE, TEX.
Testing polycarbonate for utilization in the production of transparent enclosures
[AD-P003192] 17 p2591 N84-26605

TEXTRON BELL AEROSPACE CO., BUFFALO, N. Y.
Forced vibration analysis of rotating cyclic structures in NASTRAN
[NASA-CR-165429] 02 p0231 N84-11514
Finite element forced vibration analysis of rotating cyclic structures
[NASA-CR-165430] 02 p0231 N84-11515
NASTRAN flutter analysis of advanced turbopropellers
[NASA-CR-167926] 05 p0631 N84-14148
NASTRAN documentation for flutter analysis of advanced turbopropellers
[NASA-CR-167927] 06 p0790 N84-15153
Bladed-shrouded-disc aeroelastic analyses: Computer program updates in NASTRAN level 17.7
[NASA-CR-165428] 06 p0790 N84-15154
Development of improved LACV-30 propeller blade coatings for protection against sand and rain erosion and marine environment corrosion
[AD-A132999] 18 p2821 N84-27914
NASTRAN forced vibration analysis of rotating cyclic structures
[NASA-CR-173821] 19 p3035 N84-29252
The compatibility of MON-3 and 301 cryoformed stainless steel 20 p3138 N84-29924
Study of high performance alloy electroforming
[NASA-CR-173828] 20 p3152 N84-30013
Study of high performance alloy electroforming
[NASA-CR-173865] 21 p3366 N84-31350
Slave finite elements: The temporal element approach to nonlinear analysis 21 p3420 N84-31689
Study of high performance alloy electroforming
[NASA-CR-173979] 23 p3717 N84-33565

TEXTRON BELL HELICOPTER, FORT WORTH, TEX.
Flight service evaluation of composite components on the Bell helicopter model 206L, flight service report
[NASA-CR-172296] 10 p1452 N84-19479

TEXTRON BELL TECHNICAL OPERATIONS, TUCSON, ARIZ.
Performance of telecommunications systems in a random probabilistic environment. Task 1: Comparisons of spread-spectrum and conventional narrowband modulation methods
[PB84-158542] 17 p2655 N84-26979
Performance of telecommunications systems in a random probabilistic environment. Task 2: Single source interference with random parameters
[PB84-158534] 17 p2655 N84-26981

TEXTRON, INC., IRVINE, CALIF.
Foreign technology summary of flight crucial flight control systems 11 p1618 N84-20587
Technology review of flight crucial flight controls
[NASA-CR-172332] 13 p1934 N84-22583

THEORY AND APPLICATIONS UNLIMITED CORP., LOS GATOS, CALIF.
Simulation and analysis of differential global positioning system for civil helicopter operations
[NASA-CR-166534] 10 p1425 N84-19317

THERMACORE, INC., LANCASTER, PA.
Power flattening , techniques for radioisotopic thermoelectric generators
[AD-A142937] 21 p3391 N84-31520

THERMAL SCIENCES, INC., SUNNYVALE, CALIF.
Assessment of real gas effects on the prediction of the aerodynamics of high velocity Army shells
[AD-A134739] 08 p1099 N84-17150

THERMO ELECTRON CORP., WALTHAM, MASS.
Open-cycle vapor compression heat pump
[PB83-226429] 01 p0059 N84-10384
Design and development of a high-concentration and high-effieciency photovoltaic concentrator using a curved Fresnel lens
[DE84-000967] 04 p0558 N84-13679
An RC-1 organic Rankine bottoming cycle for an adiabatic diesel engine
[NASA-CR-168256] 21 p3521 N84-32306

THERMO ELECTRON ENGINEERING CORP., WALTHAM, MASS.
High-temperature CVD heat pipe development
[DE83-017893] 12 p1816 N84-21838

THERMO MECHANICAL SYSTEMS CO., CANOGA PARK, CALIF.
Calculation of the 3-D viscous flow at the endwall leading edge region of an axial annular turbine cascade
[NASA-CR-168275] 21 p3325 N84-31095

THIOKOL CHEMICAL CORP., MARSHALL, TEX.
Resonance line broadening of alkali metals in pyrotechnic flames
[AD-A135685] 09 p1279 N84-18355

THIOKOL CORP., BRIGHAM CITY, UTAH.
Replacement of PBNA in HB and HC polymers used in SRM propellant and liner
[NASA-CR-170936] 03 p0355 N84-12311

THOMAS ELECTRONICS INC., WAYNE N. J.
Manufacturing Methods and Technology (MM and T) specifications for miniature cathode ray tube
[AD-A131042] 01 p0072 N84-10468
Manufacturing Methods and Technology (MM and T) specifications for miniature cathode ray tube
[AD-A132797] 05 p0675 N84-14439

THOMAS (H. H. B. M.), FARNBOROUGH (ENGLAND).
The aerodynamics of aircraft control: A general survey in the context of active control technology 01 p0013 N84-10084

THOMPSON (H. I.) FIBER GLASS CO., COMPTON, CALIF.
Double layered tailorable advanced blanket insulation
[NASA-CR-166600] 23 p3723 N84-33591

THOMSON-CSF, BAGNEUX (FRANCE).
Advanced technology for SAM systems analysis, synthesis and simulation 21 p3350 N84-31249

THOMSON-CSF, CAGNES SUR MER (FRANCE).
Chirp signal generator feasibility study
[TH-CSF-DASM-83/001/106] 07 p0999 N84-16482
New principle of array processing in underwater passive listening 09 p1401 N84-19152

THOMSON-CSF, CONFLANS-SAINTE-HONORINE (FRANCE).
Termination of cylindrical grooved optical cables 11 p1720 N84-21220
Cylindrical v-grooved non-metallic optical fibre cable 11 p1723 N84-21242

THOMSON-CSF, MALAKOFF (FRANCE).
Homing head imperfections altering missile guidance 21 p3351 N84-31256

THOMSON-CSF, PARIS (FRANCE).
Study of a satellite communication system for wideband communications: Executive summary
[ESA-CR(P)-1839] 12 p1809 N84-21795
THOMSON-CSF, TOULOUSE (FRANCE).
Thermal control of the SPOT satellite payload telemetry 10 p1447 N84-19456
THORN EMI, HAYES (ENGLAND).
Chemical and physical processes on nonemissive grids
[EVT-825] 12 p1794 N84-21700
THYSSEN SCHMIEDETECNIK, REMSCHEID (WEST GERMANY).
Precision forging of front fan blades, abridged version
[BMFT-FB-T-83-205] 10 p1472 N84-19613
Development of an isothermal forming technique for the production of precision parts made from titanium alloys
[BMFT-FB-T-83-220] 10 p1472 N84-19616
THYSSEN STAHL A.G., DUISBURG (WEST GERMANY).
Development of a multilayer process based on the down draft principle for the sintering of iron ore
[BMFT-FB-T-83-065] 02 p0197 N84-11282
Investigations made to improve the cold-cracking and the fracture behavior of welded joints in high-strength structural steels
[BMFT-FB-T-84-034] 16 p2466 N84-25803
TICRA APS, COPENHAGEN (DENMARK).
Experimental spherical near field antenna test facility, phase 3. Volume 2: Study of an offset reflector antenna with a sagging feed support
[S-179-01-VOL-2] 12 p1809 N84-21794
TOBYHANNA ARMY DEPOT, PA.
Aluminum foil shield effectiveness for electronic cables 11 p1719 N84-21215
TOHOKU ELECTRIC POWER CO., INC., SENDAI (JAPAN).
Non-metallic optical cable with optical fiber catenary for long span aerial application 11 p1722 N84-21235
TOHOKU UNIV., SENDAI (JAPAN).
Japanese activities in refrigeration technology 06 p0818 N84-15330
The Record of Electrical and Communication Engineering Conversazione Tohoku University, volume 52, no. 4
[ISSN-0385-7719] 13 p2039 N84-23228
All-aluminum-alloy UHV chamber for molecular beam epitaxy, 1 13 p2039 N84-23229
Surface acoustic wave resonators in layered substrates with large electromechanical coupling coefficient 13 p2039 N84-23230
Transmitting two-level balanced code within the bandwidth of straight binary code-transmission 13 p2039 N84-23231
Image processing algorithms for a multiple-valued array processor
[AD-P002359] 14 p2193 N84-24150
The Record of Electrical and Communication Engineering Conversazione, volume 53, no. 1, Jul. 1984
[ISSN-0385-7719] 22 p3563 N84-32565
A study on accurate frequency-control of semiconductor lasers 22 p3563 N84-32566
On applications of a specification and description language NESDEL to communication protocols 22 p3563 N84-32567
An automatic syntheses of hardware algorithm 22 p3563 N84-32568
The Record of Electrical and Communication Engineering Conversazione, volume 52, no. 3, February 1984
[ISSN-0385-7719] 23 p3740 N84-33707
The 19th Electrical Communication Research Institute Symposium: Future prospects for the optical computer 23 p3740 N84-33708
The design of an English word-processor for scientific and technical use in which superscripts, subscripts and Greek characters are operated in one-touch, 1 23 p3741 N84-33709
The design of an English word-processor for scientific and technical use in which superscripts, subscripts and Greek characters are operated in one-touch, 2 23 p3741 N84-33710
The loudness of complex noise consisted of impact sound and steady noise 23 p3741 N84-33711
TOKUSHIMA BUNRI UNIV. (JAPAN).
Cyclic ST-AN codes and modular ST distance
[AD-P002367] 14 p2194 N84-24158
TOKYO ASTRONOMICAL OBSERVATORY (JAPAN).
Facular limb-darkening functions for irradiance modeling 17 p2778 N84-27638
TOKYO DENKI UNIV. (JAPAN).
Research Reports of the Faculty of Engineering, no. 31
[DEC/1983/31] 21 p3476 N84-32034
Steady state performance of single-phase reaction motor 21 p3476 N84-32035
Ion-molecule reactions and plasma parameters of positive column in oxygen glow discharge 21 p3476 N84-32036
Nonlinear dynamics in excitable nerve membranes 21 p3477 N84-32037
Effect of thermal irradiation from evaporation source to photo-darkening sensitivity of vacuum deposited AgBr film 21 p3477 N84-32038
Properties of bubble domains in cholesteric-nematic mixtures 21 p3477 N84-32039
Hydrogen-bond energies of dimer formation and UV absorption spectra of mono-methyl substituted 2-pyridones 21 p3477 N84-32040
Improvement in quality of silicon-based amorphous films 21 p3477 N84-32041
Considerations on deformable ability and ultimate strength of aseismic walls. Part 2: About the derivation of a formula on ultimate shearing stress of walls and its applied verification for some experimental results 21 p3477 N84-32042
TOKYO ELECTRIC POWER CO., INC. (JAPAN).
Field trial of composite fiber-optic overhead ground wire 11 p1720 N84-21221
TOKYO FIRE DEPT. (JAPAN).
Effect of carbon monoxide (CO) on firefighters 04 p0512 N84-13357
TOKYO INST. OF TECH. (JAPAN).
Future direction of research in wear and wear resistant materials. Status of understanding 14 p2153 N84-23900
Behaviors of polymer additives under EHL and influences of interactions between additives on friction modification 14 p2154 N84-23908
TOKYO METROPOLITAN UNIV. (JAPAN).
Functions of uniformly bounded characteristic 04 p0577 N84-13802
TOKYO NATIONAL TECHNICAL COLL. (JAPAN).
An experimental study of helical guide-type rotating heat pipe 20 p3169 N84-30123
TOKYO SHIBAURA ELECTRIC CO. LTD. (JAPAN).
Exponential calculus of microdifferential operators of infinite order, part 1 13 p2033 N84-23181
TOKYO UNIV. (JAPAN).
Current researches on fire retardant materials in Japan 04 p0510 N84-13342
Recent Japanese progress in fire modeling 04 p0511 N84-13353
Modeling of compartment fires 04 p0512 N84-13364
New modeling of compartment fires and problem of flashover 04 p0513 N84-13365
Response of flame spread phenomena to ambient air stream velocity changes 04 p0514 N84-13373
An enhanced Oct-tree data structure and operations for solid modeling 12 p1874 N84-22214
Evolution of cavity microstructure in ion-irradiated 316 SS and Fe-20Ni-15Cr alloy
[DE84-012111] 20 p3158 N84-30053
TOKYO UNIV. OF EDUCATION (JAPAN).
Measurements of CARS intensity in hydrogen molecule behind shock waves 07 p0984 N84-16375
Optimization of laminated composite cylindrical shells for axial buckling 07 p0985 N84-16377
TOLEDO UNIV., OHIO.
Numerical simulation of two-dimensional heat transfer in composite bodies with application to de-icing of aircraft components
[NASA-CR-168283] 04 p0531 N84-13490
Statistical simulation of GaAs MESFETS
[AD-A133923] 05 p0674 N84-14428
Grid flexibility and patching techniques 11 p1610 N84-20540
Thermal stress analysis for a wood composite blade
[NASA-CR-173394] 12 p1826 N84-21903
The crater density of a linear feature 15 p2427 N84-25577
A study of the stiffened tubular joints using finite element method 17 p2679 N84-27061
Thermal-stress analysis for wood composite blade
[NASA-CR-173830] 21 p3419 N84-31685
TORONTO UNIV., DOWNSVIEW (ONTARIO).
Random-choice solutions for weak spherical shock-wave transitions of n-waves in air with vibrational excitation
[UTIAS-253] 01 p0077 N84-10502
Transition flow ion transport via integral Boltzmann equation
[UTIAS-269] 03 p0432 N84-12828
Design of a lateral ride comfort control system for STOL aircraft
[UTIAS-TN-247] 07 p0950 N84-16165
A study of washout filters for a simulator motion base
[UTIAS-TN-246] 07 p0959 N84-16218
An approach to the design of airfoils with high lift to drag ratios
[UTIAS-TN-245] 09 p1250 N84-18160
Interaction between local and overall buckling modes in axially stiffened cylindrical shells
[UTIAS-247] 09 p1328 N84-18674
Normal reflection of a shock wave at a rigid wall in a dusty gas
[UTIAS-274] 12 p1815 N84-21829
Laser Doppler velocimetry measurements of mean velocity and turbulent stress tensor components in a free isothermal swirling jet
[UTIAS-281] 12 p1815 N84-21830
Research activities at the Institute for Aerospace Studies, 1982 12 p1917 N84-22492
The effect of space environment exposure on the properties of polymer matrix composite materials (A0190) 15 p2272 N84-24644
Space structure vibration modes: How many exist? Which ones are important?
[NASA-CR-173442] 17 p2615 N84-26738
Stability diagrams for a rigid gyrostat in a circular orbit
[UTIAS-TN-243] 17 p2671 N84-27023
Design and analysis of a longitudinal ride comfort control system for a Short Take-Off and Landing (STOL) aircraft
[UTIAS-TN-254] 17 p2748 N84-27442
TORONTO UNIV. (ONTARIO).
Numerical analysis of dusty supersonic flow past blunt axisymmetric bodies
[UTIAS-267] 01 p0003 N84-10023
Computation of influence of defects on static and fatigue strength of composites 01 p0034 N84-10217
Performance of antennas in plasma 03 p0365 N84-12377
Initial decay of flow properties of planar, cylindrical and spherical blast waves
[UTIAS-TN-244] 03 p0371 N84-12416
An experimental and numerical study of weak spherical N-waves produced by exploding wires
[UTIAS-TECH-NOTE-248] 11 p1651 N84-20779
An analytical and numerical study of the interaction of rarefaction waves with area changes in ducts. Part 1: Area reductions
[UTIAS-272] 11 p1651 N84-20780
Structural variation of proterozoic dikes in central Superior Province: A possible reflection of post-Archean shield deformation 11 p1678 N84-20954
Aerodynamic forces on an airship hull in atmospheric turbulence
[UTIAS-277] 14 p2100 N84-23604
Formation of a shock wave in a dusty gas by a moving piston
[UTIAS-275] 14 p2145 N84-23853
Ternary transmission to local area networks
[AD-P002360] 14 p2193 N84-24151
Lateral dispersion of a high-energy ion beam in a scattering medium
[UTIAS-278] 14 p2222 N84-24331
Nonstationary oblique-shock-wave reflections in air
[UTIAS-270] 21 p3399 N84-31562
Analytical and numerical study of the flow in a shock tube with an area change at the diaphragm section
[UTIAS-TN-255] 21 p3399 N84-31563
Response of a plaster-wood room subjected to simulated sonic booms
[UTIAS-276] 21 p3421 N84-31701
An atomic oxygen facility for studying polymer materials for spacecraft applications 24 p3863 N84-34482
TOSHIBA RESEARCH AND DEVELOPMENT CENTER, KAWASAKI (JAPAN).
Development of a thermal controller for space application 10 p1445 N84-19437
A 1-dimensional disk model simulation for klystron design
[DE84-013793] 22 p3588 N84-32727
TOULOUSE UNIV. (FRANCE).
Extension in Hardy classes of holomorphic functions and Carleson measures extimates for the bar delta equation 14 p2210 N84-24268
Serre's spectral sequence and homotopy 22 p3636 N84-33050
On the relationships between radar backscattering coefficient and vegetation canopy characteristics 23 p3766 N84-33882
Automatic analysis of bitemporal LANDSAT data: An application to the study of the evolution of vegetation-covered areas in a tropical region 23 p3768 N84-33887
TOWSON STATE UNIV., MD.
Logical optimization for database uniformization
[NASA-CR-173836] 21 p3518 N84-32282
TOYO UNIV., KAWAGOE (JAPAN).
Synthesis of multivalued logic circuits using hyperplanes
[AD-P002335] 14 p2190 N84-24126
TRACER TECHNOLOGIES, INC., NEWTON, MASS.
Evaluation of a laser-based photoacoustic spectrometer in measurement of stable-isotope ratios
[DE83-014628] 01 p0088 N84-10574

TRACOR HYDRONAUTICS, INC., LAUREL, MD.
Fatigue testing of OTEC cold water pipe glass-reinforced plastic materials
[PB84-128958] 09 p1335 N84-18715
TRACOR, INC., AUSTIN, TEX.
Transportable GPU (General Processor Units) chip set technology for standard computer architectures
[AD-P003553] 21 p3334 N84-31157
TRACOR JITCO, INC., ROCKVILLE, MD.
OTS (Office of Toxic Substances) Information Architecture Notebook
[PB84-188655] 21 p3520 N84-32301
TRADOC SYSTEMS ANALYSIS ACTIVITY, WHITE SANDS MISSILE RANGE, N. MEX.
The 2-on-1 stochastic duel
[AD-A143679] 23 p3820 N84-34224
TRANE CO., LACROSSE, WIS.
Heat recovery subsystem and overall system integration of fuel cell on-site integrated energy systems
[NASA-CR-168309] 11 p1673 N84-20915
TRANSPORTATION ADVISORS, INC., FORT LAUDERDALE, FLA.
Services to conduct seminars on truck fuel economy for fleet owners and owner operators
[DE83-013365] 02 p0304 N84-11992
TRANSPORTATION RESEARCH BOARD, WASHINGTON, D.C.
Atmospheric emergencies: Existing capabilities and future needs
[PB83-250779] 05 p0701 N84-14602
Material certification and material-certification effectiveness
[PB84-143270] 12 p1804 N84-21762
Engineering fabrics in transportation construction
[PB84-144856] 12 p1804 N84-21763
Criteria for use of asphalt friction surfaces
[PB84-155613] 14 p2135 N84-23798
TRANSPORTATION SYSTEMS CENTER, CAMBRIDGE, MASS.
Synopsis and recommendations of the TSC Workshop on differential operation of NAVSTAR GPS, June 1983
[PB84-121599] 08 p1103 N84-17170
Evaluation of visibility sensors at the Eglin Air Force Base climatic chamber
[AD-A135375] 08 p1190 N84-17758
NAVSTAR GPS simulation and analysis program
[PB84-134402] 10 p1427 N84-19332
Specification of the transmitted signal of the OMEGA navigation system
[AD-A137673] 11 p1605 N84-20509
AWOS (Automatic Weather Observing System) sensor evaluation. Transmissometer, forward-scatter meter and lidar ceilometer
[AD-A138743] 13 p2017 N84-23074
General aviation activity and avionics survey
[AD-A139936] 15 p2254 N84-24536
Differential NAVSTAR GPS (Global Positioning System) design concept for Harbor/Harbor entrance marine navigation
[AD-A141665] 19 p2961 N84-28769
Panama Canal Fog Navigation Study: Candidate system definition
[PB84-180793] 20 p3249 N84-30624
Panama Canal Fog Navigation Study: System requirements statement
[PB84-179811] 20 p3249 N84-30625
Thunderstorm impact on Denver air traffic control operations and the role of NEXRAD (Next Generation Weather Radar)
[PB84-189729] 22 p3534 N84-32374
A survey of state-of-the-art LORAN-C receivers
[AD-A144199] 24 p3853 N84-34434
TRENTON STATE COLL., N. J.
The representation of part-whole information in memory
[PB84-180140] 20 p3263 N84-30701
TRIANGLE UNIVERSITIES NUCLEAR LAB., DURHAM, N.C.
System for producing high-resolution polarized and unpolarized beams with a tandem accelerator
[DE84-004054] 09 p1388 N84-19063
TRIESTE UNIV. (ITALY).
Geodesy and geotectonics 07 p1029 N84-16666
On the structure of the tidal field
07 p1030 N84-16679
TRINITY COLL., DUBLIN (IRELAND).
Prolonged heavy vehicle driving performance: Effects of unpredictable shift onset and duration and convoy versus independent driving conditions
[AD-A139747] 15 p2384 N84-25298
TRINITY UNIV., SAN ANTONIO, TEX.
Energy and peak power saved by passively cooled residences 16 p2513 N84-26130
TROCHOID POWER CORP., EDEN PRAIRIE, MINN.
Positive displacement rotary compressor for vapor compression
[PB83-232744] 01 p0092 N84-10599
TRONDHEIM UNIV. (NORWAY).
The break-up mechanism of a streamwise directed vortex 03 p0325 N84-12123
TRUMPF G.M.B.H. UND CO., DITZINGEN (WEST GERMANY).
Laser cutting: An advanced technology in sheet metal working 09 p1293 N84-18452
TRW DEFENSE AND SPACE SYSTEMS GROUP, REDONDO BEACH, CALIF.
Microwave backscattering from short gravity waves. A deterministic, coherent and dual-polarized laboratory study
[AD-A131217] 01 p0111 N84-10719
Development of instrumentation for monitoring carbon fiber emission
[PB83-233726] 03 p0378 N84-12460
Frequency domain digital filtering with VLSI
09 p1400 N84-19142
Multibus Avionic Architecture Design Study (MAADS)
[AD-A138226] 12 p1770 N84-21546
Multiple access adaptive antennas
13 p1976 N84-22823
Enhancement of spread-spectrum systems through adaptive antenna techniques 13 p1976 N84-22824
Space station needs attributes and architectural options study costing working group briefing
[NASA-CR-173517] 15 p2265 N84-24601
Vibration Control Of Space Structures VCOSS B: Momentum exchange and truss dampening
[AD-A139910] 15 p2281 N84-24701
Wall quench and flammability limit effects on exhaust hydrocarbon emission
[DE84-009754] 21 p3359 N84-31307
TRW DEFENSE SYSTEMS GROUP, REDONDO BEACH, CALIF.
Model of solar cell proton damage
19 p3045 N84-29316
TRW ELECTRONIC COMPONENTS GROUP, PHILADELPHIA, PA.
Field expedient repair of fiber optic cables
[AD-A134276] 07 p0985 N84-16382
TRW ELECTRONIC SYSTEMS GROUP, REDONDO BEACH, CALIF.
A 20-GHz IMPATT transmitter
[NASA-CR-168076] 02 p0212 N84-11385
A 20-GHz IMPATT transmitter, summary
02 p0212 N84-11386
A 20-GHz IMPATT diode development
[S-3057] 02 p0212 N84-11387
S-band SBAW microwave source, phase 2
[NASA-CR-175153] 08 p1142 N84-17432
The 20 GHz spacecraft FET solid state transmitter
[NASA-CR-168240] 08 p1149 N84-17477
V-band integrated quadriphase modulator
[NASA-CR-175159] 08 p1149 N84-17480
Communications 09 p1269 N84-18285
K-band latching switches
[NASA-CR-168253] 15 p2327 N84-24973
TRW ENERGY SYSTEMS GROUP, REDONDO BEACH, CALIF.
Photodetachment neutralizer development. Laser-resonator study. Volume 1: Summary
[DE84-001682] 06 p0851 N84-15547
TRW, INC., CLEVELAND, OHIO.
Fabrication development for ODS-superalloy, air-cooled turbine blades
[NASA-CR-174650] 16 p2450 N84-25711
Space Station Needs, Attributes and Architectural Options. Contractor orientation briefings
[NASA-CR-173999] 24 p3859 N84-34460
Porosity and environment 24 p3882 N84-34593
TRW, INC., COLORADO SPRINGS, COLO.
Distributed database performance modeling
[AD-P002157] 14 p2139 N84-23823
TRW, INC., EL SEGUNDO, CALIF.
Optical analog repeater development for a one GHz bandwidth recirculating delay line
[AD-A133658] 05 p0675 N84-14437
TRW, INC., MCLEAN, VA.
Cogeneration: Status and environmental issues
[PB84-155175] 17 p2723 N84-27334
TRW, INC., PHILADELPHIA, PA.
Fiber optics expanded beam connector
[AD-A131125] 02 p0294 N84-11929
TRW, INC., REDONDO BEACH, CALIF.
Apparatus analysis and preliminary design of low gravity porous solids experiment for STS Orbiter mid-deck
[NASA-CR-168248] 01 p0017 N84-10109
Enhanced compressible fluids investigation
[AD-A131622] 02 p0218 N84-11428
Improved high temperature resistant matrix resins
[NASA-CR-168210] 19 p2998 N84-28995
An advanced host-target environment for the military computer family
[AD-P003428] 20 p3271 N84-30760
Development of partially fluorinated resin apex seals
[NASA-CR-174706] 22 p3603 N84-32828
The 1.4 gb/s optical repeater development
[AD-A143331] 22 p3657 N84-33182
Navy mobility fuels evaluation
[AD-A144171] 24 p3890 N84-34630
TRW SPACE TECHNOLOGY LABS., REDONDO BEACH, CALIF.
Study of multi-kilowatt solar arrays for Earth orbit applications
[NASA-CR-170939] 03 p0403 N84-12634
Lightning mapper sensor design study
[NASA-CR-170909] 04 p0566 N84-13732
Waves in Space Plasmas (WISP): A space plasma lab active experiment 05 p0642 N84-14223
Applications of Josephson junction squids and arrays
[AD-A134114] 05 p0673 N84-14425
ACOSS Fourteen (Active Control of Space Structures)
[AD-A133411] 06 p0795 N84-15181
The nature of microwave backscattering from water waves 06 p0870 N84-15665
Plasma wave experiment for the ISEE-3 mission
[NASA-CR-175132] 06 p0919 N84-15972
Space station needs, attributes and architectural options study. Final review executive summary briefing
[NASA-CR-173674] 09 p1267 N84-18272
Three-color pyrometer for burning particle temperature measurement 13 p1943 N84-22635
Study of solar array switching power management technology for space power system
[NASA-CR-167890-EXEC-SUM]
13 p2008 N84-23021
A summary of whistlers observed by Voyager 1 at Jupiter
[NASA-CR-173415] 13 p2091 N84-23545
Preliminary design of two Space Shuttle fluid physics experiments
[NASA-CR-174649] 14 p2114 N84-23667
Space plasma high-voltage drainage experiment (A0054) 15 p2274 N84-24655
Conditions for two-cell structure in severe vortical storms
[AD-A138242] 17 p2734 N84-27381
Demonstration of SQUID (Superconducting QUantum Interference Device) parametric amplifier
[AD-A141326] 18 p2834 N84-27992
Wall effects on combustion in an engine
[AD-A141418] 19 p2966 N84-28798
The nature of microwave backscattering from water waves
[AD-A141877] 19 p3006 N84-29056
Solar cell degradation in proton radiation orbits
19 p3045 N84-29315
Preliminary concept of a 100-kilowatt miniaturized Cassegrainian concentrator solar array
19 p3047 N84-29332
Tracking and Data Relay Satellite launch recovery mission 20 p3137 N84-29918
Thrust balance efficiency measurements for a pulsed inductive thruster 20 p3139 N84-29930
Raman spectroscopy measurements of flame quenching in a duct-type crevice, appendix B
[DE84-009328] 21 p3362 N84-31329
Preliminary silver-hydrogen cell test results
23 p3739 N84-33697
Innovative method for the thermal cycling of large spacecraft systems 24 p3861 N84-34470
Tape heating method for space simulation testing
24 p3864 N84-34488
TRW SYSTEMS AND ENERGY, REDONDO BEACH, CALIF.
Ongoing data reduction, theoretical studies and supporting research in magnetospheric physics
[NASA-CR-173419] 13 p2010 N84-23039
TSINGHUA UNIV., BEIJING (CHINA).
Plasma focus research in China
10 p1581 N84-20361
TUEBINGEN UNIV. (WEST GERMANY).
The diffuse interstellar medium in the Magellanic clouds (review) 24 p3974 N84-35163
UV-bright stars in galactic globular clusters, their far-UV spectra and their contribution to the globular cluster luminosity 24 p3974 N84-35164
Optical and ultraviolet observations of FK Comae stars 24 p3978 N84-35198
TUFTS UNIV., BOSTON, MASS.
Stress fractures: The remodelling response to excessive repetitive loading
[AD-A130881] 06 p0887 N84-15765
Static versus dynamic loads as an influence on bone remodelling
[NASA-CR-173365] 09 p1360 N84-18887

Regulation of bone mass by mechanical strain
[NASA-CR-173363] 09 p1360 N84-18688
The combined influence of stretch, mobility and electrical stimulation in the prevention of muscle fiber atrophy caused hypokinesia and hypodynamia
[NASA-CR-173994] 24 p3936 N84-34914

TUFTS UNIV., MEDFORD, MASS.
A successive transformation method for the dynamic analysis of damped systems 05 p0694 N84-14559
Very Large Array observations of solar active regions. 4: Structure and evolution of radio bursts from 20 cm loops
[AD-A133907] 06 p0940 N84-16109
The circularly polarized sun at 12.6 cm wavelength
[AD-A133688] 06 p0940 N84-16110
Three dimensional structure and time development of radio emission from solar active regions
[AD-A126640] 07 p1093 N84-17110
Plasma modification of graphite fibers and its effect on composite properties
[AD-A136558] 09 p1276 N84-18329
Durability and failure analyses of a silane treated Alpha-Al2O3/Polyethylene joint in wet environment
[AD-A136089] 09 p1333 N84-18705
Control of bone remodelling by applied dynamic loads
[NASA-CR-173287] 09 p1361 N84-18889
Bright, rapid, highly polarized radio spikes from the M dwarf AD Leo
[AD-A136205] 09 p1418 N84-19275
Possible detection of thermal cyclotron lines from small sources within solar active regions
[AD-A136218] 10 p1597 N84-20466
Very large array observations of solar active regions
[AD-A139287] 15 p2428 N84-25586
Optics and materials research for controlled radiant energy transfer in buildings 16 p2517 N84-26159

TUNIS UNIV. (TUNISIA).
Littlewood Paley's g function associated with a singular differential operator (0, infinity) 13 p2032 N84-23180

TURIN UNIV. (ITALY).
Noise as a public health problem, volume 1
[AD-A142412] 21 p3436 N84-31799
Noise as a public health problem, volume 2
[AD-A142413] 21 p3436 N84-31800

TURKU UNIV. (FINLAND).
The fate of the magellanic clouds 09 p1413 N84-19248
Orbital eccentricity in a logarithmic potential 09 p1414 N84-19249
The 70 cm Schmidt telescope of Turku University observatory 09 p1414 N84-19252

TUSKEGEE INST., ALA.
Ultrahigh molecular weight aromatic siloxane polymers 06 p0930 N84-16042
Operating system interface for Ada (trademark) instructors
[AD-P003433] 20 p3272 N84-30765

TYCHO TECHNOLOGY, INC., BOULDER, COLO.
Design considerations for high-power VHF radar transceivers (keynote paper) 17 p2692 N84-27143
MST radar transmitter control and monitor system 17 p2693 N84-27150
Delay line and mutual coupling considerations for MST radar antenna arrays 17 p2694 N84-27157

U

UHDE G.M.B.H., DORTMUND (WEST GERMANY).
Waste water treatment with the aid of the addition of activated carbon into the aeration station and reactivation of the spent carbon
[BMFT-FB-T-83-186] 07 p1028 N84-16661

ULTRACOM, INC., DEL MAR, CALIF.
Development of a proposed standard for the exchange of scientific microcomputer programs
[PB84-157940] 14 p2207 N84-24244

ULTRAMET, PACOIMA, CALIF.
Platinum group coatings for refractory metals
[AD-A143792] 23 p3718 N84-33568
High temperature oxidation resistant coatings
[AD-A143633] 23 p3724 N84-33597

ULTRASYSTEMS, INC., IRVINE, CALIF.
Synthesis of perfluoroalkylene dianilines
[NASA-CR-168004] 02 p0189 N84-11228
Thermal oxidative degradation reactions of perfluoroalkiethers
[NASA-CR-168224] 02 p0189 N84-11229

UMGENI WATER BOARD, PIETERMARITZBURG (SOUTH AFRICA).
Integrated budget control using a desktop computer 05 p0717 N84-14697

UNC NUCLEAR INDUSTRIES, INC., RICHLAND, WASH.
Vibration monitoring using a computer-network approach
[DE83-012123] 02 p0232 N84-11523
A new technique for measuring metal surface properties at the Rayleigh critical angle
[DE84-001770] 08 p1172 N84-17632

UNDERWRITERS LABS., INC., NEW YORK.
Safety-related requirements for photovoltaic modules and arrays
[NASA-CR-173747] 18 p2868 N84-28208

UNIFORMED SERVICES UNIV. OF THE HEALTH SCIENCES, BETHESDA, MD.
Aftereffects associated with one and two stressors across conditions of complete, partial, or no control
[AD-P003299] 18 p2908 N84-28446

UNION CARBIDE CORP., GREENVILLE, S.C.
Orthogonal schemes for structural optimization
[AD-P002954] 14 p2199 N84-24194
Testing and failure analysis to improve screening techniques for hermetically sealed metallized film capacitors for low energy applications
[NASA-CR-162071] 19 p3011 N84-29088

UNION CARBIDE CORP., OAK RIDGE, TENN.
Response of the North American corn belt to climate warming, CO2
[DE83-017873] 04 p0564 N84-13721

UNION CARBIDE CORP., TARRYTOWN, N.Y.
Organosilane polymers. Part 7: Sodium-derived vinylic polysilanes
[AD-A141649] 19 p2984 N84-28912
Organosilane polymers. 5: Hydrosilyl-modified polycarbosilane precursors for silicon carbide
[AD-A141546] 19 p2999 N84-29002
Organosilane polymers. 6: Branched polysilahydrocarbon precursors for silicon carbide
[AD-A141558] 19 p2999 N84-29003
Organosilane polymers, 8
[AD-A141627] 19 p2999 N84-29004

UNION CARBIDE CORP., TONAWANDA, N.Y.
Flat-plate solar array project: Experimental process system development unit for producing semiconductor-grade silicon using the silane-to-silicon process
[NASA-CR-173762] 19 p3049 N84-29348
Low cost solar array project. Experimental process system development unit for producing semiconductor-grade silicon using the silane-to-silicon process
[NASA-CR-173936] 23 p3789 N84-34034

UNION COLL., SCHENECTADY, N.Y.
An expression of strain energy involving couple stresses in solids 15 p2313 N84-24880

UNISEARCH ASSOCIATES, INC., CONCORD (ONTARIO).
Measurement of NO, NO/sub 2, and HNO/sub 3 using a tunable diode laser system. Phase 2: Modification to permit automated simultaneous multi-species monitoring and feasibility study of extension to H/sub 2O/sub 2, CH/sub 2O and HONO
[PB84-160076] 14 p2151 N84-23890

UNITED INDUSTRIES CORP., BELLEVUE, WASH.
Airborne wind measurements at Cape Blanco, Oregon
[DE84-013662] 21 p3448 N84-31880

UNITED KINGDOM ATOMIC ENERGY AUTHORITY, CULHAM (ENGLAND).
Thermohydraulics of LMFBR core catchers 06 p0843 N84-15500
Laser light scattering from density fluctuations in the Culham focus 10 p1584 N84-20383
Possibility of using pulsed CO2 lasers for radiation scattering diagnostics in Tokamak plasmas
[BLL-CTO-2199-(9091.9F)] 12 p1909 N84-22437
Anisoptropic diffusion kinetics of metals and carbides in pyrolytic graphite
[BLL-CTO-2261-(9091.9F)] 19 p2991 N84-28953

UNITED KINGDOM ATOMIC ENERGY AUTHORITY, DORCHESTER (ENGLAND).
Non-inertial flow of dilute polymer solutions in a sudden contraction
[BLL-WH-558-(9091.9F)] 20 p3183 N84-30221

UNITED KINGDOM ATOMIC ENERGY AUTHORITY, DOUNREAY (SCOTLAND).
Mass transfer during drop formation in the presence of interfacial turbulence in the liquid-liquid systems
[BLL-DOUNREAY-TR-923-(9091.9F)] 09 p1311 N84-18568

UNITED KINGDOM ATOMIC ENERGY AUTHORITY, HARWELL (ENGLAND).
Surface modification of some titanate minerals subjected to hydrothermal chemical attack
[AERE-R-10799] 01 p0039 N84-10249
The detection of pitting corrosion in stainless steel using double-layer activation
[AERE-R-9751] 01 p0047 N84-10304
Some effects of anisotropic roughening on the wetting of metal surfaces
[AERE-R-10976] 01 p0047 N84-10305
A Fourier transform technique which measures phase delays between ultrasonic impulses with sufficient accuracy for the determination of residual stresses in metals
[AERE-R-1093] 01 p0047 N84-10306
The effects of specimen size, specimen geometry and data analysis procedures on ductile crack growth resistance curves
[AERE-R-10906] 01 p0098 N84-10638
Effects of space radiation on advanced semiconductor devices. Part 1: A review of current theories and practice in cosmic ray simulation
[G-2532-VOL-1] 08 p1153 N84-17505
Effects of space radiation on advanced semiconductor devices. Part 2: Cosmic ray simulation experiments for the study of single event upsets in CMOS technology
[G-2745-VOL-2] 08 p1153 N84-17506

UNITED KINGDOM ATOMIC ENERGY AUTHORITY, LONDON (ENGLAND).
Metallurgical aspects and mechanical properties of weld metal in automatic submerged arc welding
[BLL-RISLEY-TR-4875-(9091.9F)] 09 p1324 N84-18650

UNITED KINGDOM ATOMIC ENERGY AUTHORITY, RISLEY (ENGLAND).
No. 263 chemical and electrochemical properties in molten alkaline hydroxides. 11: Potential-acidity diagram for iron in molten sodium hydroxide at 350 deg C
[BLL-RISLEY-TR-4761-(9091.9F)] 01 p0036 N84-10228
Embrittlement of steels due to galvanizing or coating with zinc paint: An investigation of embrittlement in welding or heating operations
[AERE-TR-4774] 06 p0805 N84-15244
Sliding electric contacts in space: Observations on existing technology and new trends in low-speed applications 09 p1294 N84-18455
The stiffness torque and thermal conductance of thin-sector four-point contact ball bearings for use in spacecraft mechanisms 09 p1295 N84-18465
Computational methods for ball bearings in spacecraft 09 p1295 N84-18466
Some observations on the performance of Fomblin Z25 oil and Braycote 3L-38RP grease in ball bearings and gear boxes 09 p1296 N84-18467
The tribology of gears for satellite applications 09 p1296 N84-18470
Achievement of reliability by thermal vacuum testing of spacecraft mechanisms 09 p1296 N84-18472
Chemical vapour deposition coating of hard metals with special reference to boron and boron compounds
[BLL-RISLEY-TRANS-4877] 12 p1795 N84-21705
The ductility of metal diffusion coatings on nickel alloys and their characterization
[BLL-RISLEY-TRANS-4883] 12 p1795 N84-21706
Ion plating of coatings made from high melting point metals
[BLL-RISLEY-TRANS-4879] 12 p1796 N84-21715
Polymers which are resistant to ionizing radiation for paints used in light water nuclear power stations
[BLL-RISLEY-TR-4907-(9091.9F)] 17 p2626 N84-26801
Ultrasonic techniques for the inspection of nuclear components
[BLL-RISLEY-TR-4905-(9091.9F)] 18 p2850 N84-28098
Defect sizing using the time of flight technique on the RNL RSV plate
[ND-R-790(R)] 18 p2850 N84-28099
Photoelastic investigation of the stress concentration factor in welded joints
[ND-R-816(R)] 18 p2852 N84-28106
Solving crack problems with analytical techniques and the finite elements method
[BLL-RISLEY-TR-4940-(9091.9F)] 20 p3200 N84-30325
Calculation of crack behaviour on exposure to thermal shock
[BLL-RISLEY-TR-4941-(9091.9F)] 20 p3200 N84-30326
Gas chromatographic analysis of nitrogen
[BLL-RISLEY-TRANS-4563-(9091.9)] 22 p3545 N84-32443
Weldability of steels: Study of cracking and methods of examination
[BLL-RISLEY-TRANS-4519-(9091.9)] 22 p3550 N84-32475
Stress corrosion cracking of stainless steels in sea water at ambient temperature
[BLL-RISLEY-TRANS-4556-(9091.9)] 22 p3550 N84-32476
Chromium-magnesium stainless steels, resistant to stress corrosion cracking in magnesium and calcium chloride solutions
[BLL-RISLEY-TRANS-4571-(9091.9)] 22 p3550 N84-32477

Stress corrosion cracking of austenitic stainless steels in sea water: An investigation of test methods
[BLL-RISLEY-TRANS-4568-(9091.9)] 22 p3551 N84-32478
Procedure for the electroplating of sintered materials containing carbide or cast alloys of tungsten, molybdenum, titanium or zirconium
[BLL-RISLEY-TRANS-4557-(9091.9)] 22 p3551 N84-32484
Robotisation of dye penetrant inspection: A study of a prototype and its development
[BLL-RISLEY-TRANS-4585-(9091.9)] 22 p3606 N84-32847
Eddy current testing of steam generator tubes
[BLL-RISLEY-TRANS-4584-(9091.9)] 22 p3606 N84-32848

UNITED KINGDOM ATOMIC ENERGY AUTHORITY, SPRINGFIELDS (ENGLAND).
Fatigue crack growth in austenitic stainless steel
[ND-R-802(S)] 18 p2813 N84-27856
The effect of section thickness on the fatigue performance of simple welded joints
[ND-R-941(S)] 18 p2852 N84-28107
Surfaces, Coatings and Protection
[ND-R-751(S)] 18 p2931 N84-28583

UNITED KINGDOM ATOMIC ENERGY AUTHORITY, WINDSCALE (ENGLAND).
Corrosion of TIG welded austenitic stainless steels
[BLL-WINDSCALE-TR-959-(9091.F)] 06 p0803 N84-15235

UNITED KINGDOM INFRARED TELESCOPE UNIT, HILO, HAWAII.
Origins of the 3.28 micron dust emission feature 16 p2571 N84-26500
Origins of the 3.28 micron dust emission feature 18 p2949 N84-28698
Nova Aquilae 1982: The nature of its dust 18 p2950 N84-28703

UNITED NATIONS INDUSTRIAL DEVELOPMENT ORGANIZATION, VIENNA (AUSTRIA).
Licensing computer software: Basic considerations as to protection and licensing of computer software and its implications for developing countries
[PB84-150689] 12 p1886 N84-22295
Ceramic glazes: Basic information
[PB84-150663] 14 p2130 N84-23772
Advance in materials technology: Monitor issue number 1
[PB84-196286] 21 p3369 N84-31377
Guidelines for software production in developed countries
[PB84-202795] 21 p3467 N84-31986

UNITED RESEARCH CORP., SANTA MONICA, CALIF.
Nonperiodic fluctuations induced by stationary surface waviness on a semi-infinite plate
[AD-A130820] 02 p0174 N84-11146

UNITED STATES INTERNATIONAL UNIV., SAN DIEGO, CALIF.
Thought control from parenting, to behavior mod, to cults, to brainwashing
[AD-P003240] 18 p2903 N84-28407

UNITED STATES STEEL CORP., MONROEVILLE, PA.
Thermomechanical processing and texture development in Ni-Cr-Mo and Mn-Mo-B armor steels
[AD-A142352] 20 p3153 N84-30020

UNITED STIRLING A.B. MALMO (SWEDEN).
United Stirling's solar engine development: The background for the Vanguard engine 18 p2873 N84-28242
Testing of the United Stirling 4-95 solar Stirling engine on test bed concentrator 18 p2873 N84-28243

UNITED TECHNOLOGIES CORP., EAST HARTFORD, CONN.
An assessment of the use of antimisting fuel in turbofan engines
[NASA-CR-168081] 01 p0052 N84-10332
Deformation studies in workable superalloys
[AD-A131606] 02 p0194 N84-11260
Deposit formation and heat transfer in hydrocarbon rocket fuels
[NASA-CR-168277] 03 p0343 N84-12225
Research and development of subsurface acoustic wave device configurations for sensor applications
[AD-A133659] 05 p0742 N84-14877
Energetics and collision dynamics of electronic transition lasers
[AD-A135894] 09 p1322 N84-18639
Combustor liner construction
[NASA-CASE-LEW-14035-1] 15 p2260 N84-24577
Alternative fuel deposit formation 15 p2289 N84-24735
Energy efficient engine high-pressure turbine supersonic cascade technology report
[NASA-CR-165567] 18 p2796 N84-27739
Materials for Advanced Turbine Engines (MATE): Project 3: Design, fabrication and evaluation of an oxide dispersion strengthened sheet alloy combustor liner
[NASA-CR-174691] 22 p3554 N84-32504

UNITED TECHNOLOGIES CORP., SAN JOSE, CALIF.
Coupling between velocity oscillations and solid propellant combustion 13 p1944 N84-22643
Solid propellant nonlinear constitutive theory extension
[AD-A139957] 15 p2304 N84-24823
Nonlinear structural characterization of solid propellants 20 p3142 N84-29951
Kevlar-49/epoxy case skirt structural fatigue strength 20 p3143 N84-29955
Stress transducer interpretation analysis and stability data 20 p3143 N84-29957

UNITED TECHNOLOGIES CORP., SOUTH WINDSOR, CONN.
Development of molten carbonate fuel cell power plant technology
[DE84-002367] 10 p1487 N84-19720
On-site fuel cell power plant technology development program
[PB84-125095] 10 p1538 N84-20076

UNITED TECHNOLOGIES CORP., SUNNYVALE, CALIF.
Propellant nonlinear constitutive theory extension: Preliminary results
[AD-A133364] 06 p0812 N84-15287

UNITED TECHNOLOGIES OF NEW MEXICO, INC., EAST HARTFORD, CONN.
Optical support Hartmann sensor optical simulation
[AD-A142525] 20 p3300 N84-30955

UNITED TECHNOLOGIES RESEARCH CENTER, EAST HARTFORD, CONN.
Research and development program for the development of advanced time-temperature dependent constitutive relationships. Volume 1: Theoretical discussion
[NASA-CR-168191-VOL-1] 01 p0094 N84-10613
Research and development program for the development of advanced time-temperature dependent constitutive relationships. Volume 2: Programming manual
[NASA-CR-168191-VOL-2] 01 p0094 N84-10614
Rotor-vortex interaction noise
[NASA-CR-3744] 01 p0139 N84-10912
Helicopter rotor wake geometry and its influence in forward flight. Volume 2: Wake geometry charts
[NASA-CR-3727] 03 p0320 N84-12091
Aeroelastic analysis for propellers - mathematical formulations and program user's manual
[NASA-CR-3729] 03 p0388 N84-12530
Heat transfer retardation at elevated temperatures. Phase 1: Analysis of heat transfer retardation configurations and materials
[AD-A133509] 06 p0926 N84-16017
Compressor and turbine blade boundary layer separation 07 p0955 N84-16196
Compressor rotor aerodynamics 07 p0958 N84-16210
Helicopter rotor wake geometry and its influence in forward flight. Volume 1: Generalized wake geometry and wake effect on rotor airloads and performance
[NASA-CR-3726] 08 p1099 N84-17149
Mechanisms and reaction dynamics related to methane combustion
[PB84-100932] 08 p1128 N84-17333
Aviation-fuel property effects on combustion
[NASA-CR-168334] 08 p1139 N84-17407
Mass and momentum turbulent transport experiments with confined swirling coaxial jets
[NASA-CR-168252] 08 p1156 N84-17530
Hot-wire measurements of velocity and temperature fluctuations in a heated turbulent boundary layer
[AD-A135212] 08 p1158 N84-17538
Analysis of transonic shock induced separated flow including normal pressure gradients
[AD-A137052] 10 p1422 N84-19298
Mass and momentum transport experiments with swirling flow 11 p1610 N84-20541
Extension to an analysis of turbulent swirling compressible flow for application to axisymmetric small gas turbine ducts
[NASA-CR-165597] 11 p1753 N84-21445
ALESEP: A computer program for the analysis of airfoil leading edge separation bubbles
[NASA-CR-172310] 13 p1926 N84-22537
Influence of fuel chemical properties on gas turbine combustors 14 p2107 N84-23634
A study of adherent oxide formation
[AD-A139505] 14 p2123 N84-23722
Abrasive tip treatment for use on compressor blades
[NASA-CR-174666] 15 p2343 N84-25065
Theoretical study of the radiative and kinetic properties of selected metal oxides and air molecules
[AD-A141230] 18 p2811 N84-27847
Investigation of the kinetics of catalyzed combustion of fuel
[AD-A142153] 19 p2989 N84-28939
Facility requirements for helicopter noise research 19 p3097 N84-29672
A study of the dependence of microsegregation on critical solidification parameters in rapidly-quenched structures
[AD-A142293] 20 p3153 N84-30019
Waste heat recovery from adiabatic diesel engines by exhaust-driven Brayton cycles
[NASA-CR-168257] 21 p3521 N84-32307
A linear aerodynamic analysis for unsteady transonic cascades
[NASA-CR-3833] 22 p3531 N84-32355
Refinement and evaluation of helicopter real-time self-adaptive active vibration controller algorithms
[NASA-CR-3821] 23 p3689 N84-33378

UNIVERSAL ENERGY SYSTEMS, INC., DAYTON, OHIO.
Sharp PC-1500 pocket computer solutions to composite materials formulas
[AD-A130421] 01 p0031 N84-10193
Multi-ducted inlet combustor research and development
[AD-A135906] 09 p1257 N84-18205
Sharp PC-1500 pocket computer solutions to statistical data analysis of composite materials or metals
[AD-A135086] 09 p1276 N84-18334
Panasonic HR-1800 hand-held computer solutions to composite materials formulas
[AD-A139798] 15 p2391 N84-25352
A review of crack closure
[AD-A142273] 19 p3036 N84-29261
A model of the performance characteristics of silicon-gallium infrared detectors for low background applications
[AD-A143932] 23 p3825 N84-34256

UNIVERSAL PROPULSION CO., PHOENIX, ARIZ.
History of aircraft escape system propulsion 20 p3141 N84-29941

UNIVERSIDAD AUTONOMA DE MADRID, CANTOBLANCO (SPAIN).
Electronic properties of semiconductor interfaces
[AD-A130745] 01 p0152 N84-11002

UNIVERSIDAD POLITECNICA DE BARCELONA (SPAIN).
Mapping land use in Catalonia (Spain) 03 p0400 N84-12613

UNIVERSIDAD POLITECNICA DE MADRID (SPAIN).
Self-beating instabilities in bistable devices 14 p2236 N84-24415
Empirical and analytical study of instabilities in hybrid optical bistable systems 14 p2236 N84-24416

UNIVERSIDADE ESTADUAL DE CAMPINAS (BRAZIL).
Purification of metals by zone melting. An optimization 15 p2307 N84-24839
Grain refinement of commercial aluminum by niobium and zirconium additions to the melt 15 p2307 N84-24841

UNIVERSIDADE ESTADUAL DE PAULISTA, GUARATINGUETA (BRAZIL).
Stability of equilibrium in problems with double resonance 19 p3117 N84-29809

UNIVERSIDADE FEDERAL DE PARANA, CURITIBA (BRAZIL).
Drag on geodynamic satellites 19 p3118 N84-29818

UNIVERSIDADE FEDERAL DE PERNAMBUCO, RECIFE (BRAZIL).
Periodic and quasi-periodic motions in triple stellar systems 19 p3117 N84-29807

UNIVERSIDADE FEDERALE DO RIO GRAND DO SUL, PORTO ALEGRE (BRAZIL).
Thermal instabilities in the edge region of reversed-field pinches
[DE84-013861] 22 p3659 N84-33196

UNIVERSITE CATHOLIQUE DE LOUVAIN (BELGIUM).
SAR 580: Images for agricultural and forest survey. First results in middle Belgium 03 p0397 N84-12595
Recent developments of spectral and pseudospectral methods in fluid dynamics 16 p2492 N84-25985
A tentative unified sea model for scattering and emission 17 p2715 N84-27285

UNIVERSITE DE FRANCHE-COMTE, BRESANCON (FRANCE).
On the Z sub 2 extensions of an imaginary quadratic field 13 p2031 N84-23173
Infinitesimal L-classes of a group of algebraic numbers 22 p3635 N84-33039

UNIVERSITE DES SCIENCES ET TECHNIQUES DE LILLE (FRANCE).
Solution of the compressible Navier-Stokes equations: Applications to complex turbulent flows 16 p2492 N84-25991

UNIVERSITE DES SCIENCES ET TECHNIQUES DU LANGUEDOC, MONTPELLIER (FRANCE).
A cluster analysis of visual and near-infrared light curves of long period variable stars 09 p1409 N84-19210
UNIVERSITIES SPACE RESEARCH ASSOCIATION, COLUMBIA, MD.
Initialization of a mesoscale model for April 10, 1979, using alternative data sources
[NASA-CR-3826] 24 p3921 N84-34815
The effects of latent heat release on the waves with Ekman pumping 24 p3926 N84-34847
UNIVERSITIES SPACE RESEARCH ASSOCIATION, HUNTSVILLE, ALA.
Determination of rainfall and condensational heating in the South Pacific convergence zone during FGGE SOP-1 24 p3925 N84-34843
Use of satellite data in a diagnostic parameterization of convective heating 24 p3925 N84-34844
Maxwell currents beneath thunderstorms 24 p3926 N84-34852
Numerical simulation of mesoscale precipitation 24 p3930 N84-34876
Statistical severe storm nowcasting comparison of VAS and Rawinsonde soundings 24 p3930 N84-34878
UNIVERSITY CHEMICAL LABS., CAMBRIDGE (ENGLAND).
Types of technical content of data 07 p1086 N84-17061
UNIVERSITY COLL., DORKING (ENGLAND).
Observations of sea ice and icebergs from satellite radar altimeters 17 p2720 N84-27311
UNIVERSITY COLL., GALWAY (IRELAND).
Electro-optical transmission and liquid water content of fogs and clouds
[AD-A134307] 07 p1039 N84-16738
Electro-optical transmission and liquid water content of fogs and clouds
[AD-A142294] 20 p3245 N84-30597
UNIVERSITY COLL., LONDON (ENGLAND).
A study of satellite radar altimeter operation over ice-covered surfaces
[ESA-CR(P)-1810] 08 p1179 N84-17683
Reflection acoustic microscopy for Micro-NDE
[AD-A136321] 09 p1327 N84-18665
High precision phase shifting techniques
[AD-A138397] 12 p1807 N84-21783
Observations of differential charging with METEOSAT
[AD-P002112] 16 p2523 N84-26198
Limb-darkening and metal abundances in the sdOB primary of the eclipsing binary LB 3459 (AA Dor) 24 p3976 N84-35183
Observations of extensive variability in the ultraviolet spectrum of xi Per 24 p3977 N84-35190
A model of the planetary nebula NGC 3918 based on IUE observations 24 p3978 N84-35195
IUE observations of the X-ray binary A0538 66: Recent results on a remarkable recurrent 24 p3981 N84-35221
The ultraviolet astronomy mission: Columbus 24 p3982 N84-35228
UNIVERSITY COLL. OF SWANSEA (WALES).
Domain splitting for an explicit hyperbolic solver
[C/R/469/83] 07 p1060 N84-16871
An adaptive finite element method for high speed compressible flow
[NASA-CR-173443] 17 p2601 N84-26669
UNIVERSITY OF CENTRAL FLORIDA, ORLANDO.
An analytical model for evaluating database update schemes 05 p0760 N84-14986
On obtaining physical meaning from the parameters in the Weibull distribution
[AD-A138574] 13 p2036 N84-23206
A comparison of several alternatives to maximum likelihood for the Weibull distribution
[AD-A138721] 13 p2036 N84-23208
UNIVERSITY OF EASTERN KENTUCKY, RICHMOND.
Studies of neutron and proton nuclear activation in low-Earth orbit 2 06 p0930 N84-16041
Study of proton and neutron activation of metal samples in low Earth orbit
[NASA-CR-171113] 21 p3430 N84-31763
UNIVERSITY OF ELECTRO-COMMUNICATIONS, TOKYO (JAPAN).
Quenched Carbonaceous Composite (QCC): A likely candidate for interstellar grains 16 p2571 N84-26501
Quenched Carbonaceous Composite (QCC): A likely candidate for interstellar grains 18 p2949 N84-28699
UNIVERSITY OF NORTHEAST LOUISIANA, MONROE.
Progressive impact cratering 13 p2078 N84-23469
Inversion of topography in Martian highlands terrains 13 p2086 N84-23512
UNIVERSITY OF NORTHERN ARIZONA, FLAGSTAFF.
Swirl, expansion ratio and blockage effects on confined turbulent flow
[NASA-CR-175391] 10 p1491 N84-19746
Relationships and tectonics of the Jg-7 quadrangle of Ganymede 13 p2091 N84-23542
UNIVERSITY OF NORTHERN COLORADO, GREELEY.
The effect of aerobic capacity on VO2 max values measured during leg ergometry and combined arm and leg ergometry 10 p1548 N84-20149
UNIVERSITY OF NORTHERN ILLINOIS, DE KALB.
Tools for the creation of IMS database designs from Entity-Relationship diagrams
[DE84-000592] 04 p0616 N84-14066
The crustal tectonics and history of Europa: A structural, morphological, and comparative analysis 15 p2426 N84-25568
Studies of structural properties and their relationship to critical parameters in superconducting materials
[AD-A143556] 22 p3664 N84-33227
UNIVERSITY OF PETROLEUM AND MINERALS, DHAHRAN (SAUDI ARABIA).
Detection and monitoring of the 1983 Nowruz oil spill using AVHRR data 23 p3780 N84-33972
UNIVERSITY OF SOUTH FLORIDA, ST. PETERSBURG.
Optical means of measuring particle-sea interactions in the Caribbean Sea and Gulf of Mexico
[AD-A131290] 02 p0257 N84-11685
The biochemistry and physiology of bacterial adhesion to surfaces
[AD-A138271] 13 p2019 N84-23094
Evaluation of Stokes settling equation for variable density aggregates
[AD-A140878] 17 p2721 N84-27322
UNIVERSITY OF SOUTH FLORIDA, TAMPA.
Evaluation of a ground transient electromagnetic remote sensing method for the deep detection and monitoring of salt water interfaces
[PB83-253351] 05 p0698 N84-14580
Volterra transfer functions from pulse tests for mildly nonlinear channels
[AD-A135703] 09 p1308 N84-18553
An instrumental conditioning method for establishing chronic arousal
[AD-A140808] 17 p2740 N84-27396
UNIVERSITY OF SOUTHERN CALIFORNIA, LOS ANGELES.
Numerical aspects of control design computations 01 p0015 N84-10097
Research in electronics: Joint services electronics program
[AD-A130791] 01 p0072 N84-10470
Multiple-pulse laser-induced damage in crystaline and fused quartz
[DE83-015458] 01 p0154 N84-11015
A summary of research on microprocessor networks
[AD-A131325] 02 p0277 N84-11813
The interplanetary hydrogen and helium glow and the inferred interstellar gas properties 03 p0472 N84-13109
Fast convolution algorithms and associated VHSIC architectures
[AD-A133851] 05 p0674 N84-14432
Studies of the electronic properties of two-dimensionally confined carriers in MIS (Metal-Insulator-Semiconductor) Inversion/Accumulation layers, heterojunctions and quantum wells
[AD-A134094] 05 p0752 N84-14935
Evaluation of gallium nitride for active microwave devices
[AD-A132988] 05 p0754 N84-14947
Eddy detection within turbulent shear flows 06 p0837 N84-15453
The bursting phenomenon in bounded shear flows 06 p0837 N84-15454
Large scale motion in turbulent boundary layers 06 p0837 N84-15455
A representation for shape based on peaks and ridges in the difference of low-pass transform
[AD-A133299] 06 p0901 N84-15849
Performance appraisal revisited
[AD-A132841] 06 p0932 N84-16059
Incentives for controlling the performance of high technology and professional employees
[AD-A134074] 06 p0933 N84-16061
Organizational outcomes of creativity
[AD-A132825] 06 p0933 N84-16066
The design of effective reward systems
[AD-A132859] 06 p0934 N84-16067
Optical properties of metals
[AD-A134285] 07 p1075 N84-16987
Strong motion effects due to seismic waves in dipping layers
[PB84-127919] 08 p1189 N84-17747
Motivation and performance appraisal behavior
[AD-A134311] 08 p1203 N84-17842
Automated synthesis of digital hardware modules: Simulation and verification of interconnections
[AD-A135298] 08 p1210 N84-17889
Characteristics of an integrated optics ring resonator
[AD-A135878] 09 p1389 N84-19069
Scientific report on the International Conference on Metastable and Modulated Semiconductor Structures (MMSS) held at Pasadena, California on 6-10 December 1982
[AD-A136204] 09 p1396 N84-19121
Proceedings of USC Workshop on VLSI and Modern Signal Processing
[AD-A136855] 09 p1399 N84-19138
Linear or square array for eigenvalue and singular value decompositions? 09 p1401 N84-19150
Impact of VLSI on modern signal processing 09 p1402 N84-19155
Design of office information systems
[AD-A136523] 09 p1404 N84-19170
Detailed kinetic studies of excited and/or transient species
[AD-A137278] 10 p1500 N84-19804
AdaRel: A relational extension of Ada
[AD-A137108] 10 p1562 N84-20234
Programming productivity enhancement by the use of application generators
[AD-A137124] 10 p1562 N84-20235
On the relation between wire length distributions and placement of logic on master slice ICs
[AD-A137848] 11 p1647 N84-20768
A data structure for VLSI synthesis and verification
[AD-A137880] 11 p1647 N84-20769
Laser chemical vapor deposition
[AD-A137827] 11 p1663 N84-20850
An analysis of application generators
[AD-A137159] 11 p1708 N84-21131
Equal weights, flat maxima, and trivial decisions
[AD-A138506] 12 p1895 N84-22342
Research Trends in Military Communications
[AD-A138229] 13 p1975 N84-22821
A digital adaptive array processing algorithm for communications 13 p1977 N84-22834
Assumption of risk in the R and D environment
[AD-P002757] 13 p2051 N84-23304
An application of the causal-integrative model
[AD-P002786] 13 p2056 N84-23333
Rationalization, standardization and interoperability: Protecting US interests in the process
[AD-P002814] 13 p2060 N84-23360
Finite element analysis of wrinkling membranes
[NASA-CR-172325] 14 p2158 N84-23926
Nonlinearities at the bandgap in InAs 14 p2233 N84-24395
Optical bistability in four-level nonradiative dyes 14 p2237 N84-24425
Travelling wave bistability 14 p2237 N84-24426
A search variability in the UV spectrum of Pi Aquarii and Fe 3 shell lines of Be stars
[NASA-CR-173611] 16 p2575 N84-26527
High resolution measurements of impurity-induced localized vibrational modes in semiconductors
[AD-A141577] 19 p3110 N84-29762
Wave uplift pressure on horizontal platforms
[PB84-190628] 20 p3188 N84-30257
Nonlinear real-time optical signal processing
[AD-A142619] 20 p3300 N84-30956
Pioneer 10 and Voyager observations of the interstellar medium in scattered emission of the He584 A and H Lya 1216 A lines
[NASA-CR-173931] 23 p3840 N84-34361
Particle excitation, airglow and H2 vibrational disequilibrium in the atmosphere of Jupiter
[NASA-CR-173930] 23 p3843 N84-34383
UNIVERSITY OF SOUTHERN CALIFORNIA, MARINA DEL REY.
The GIST behavior explainer
[AD-A130730] 01 p0122 N84-10793
Large-area mercuric iodide photodectors
[DE83-013035] 03 p0441 N84-12898
A linguistic overview of the Nigel text generation grammar
[AD-A134491] 07 p1057 N84-16849
Inquiry semantics: A functional semantics of natural language grammar
[AD-A135153] 08 p1215 N84-17929
Issues in satellite packet video communication
[AD-A135942] 09 p1303 N84-18515
Analysis of reliable multicast algorithms for local networks
[AD-A135807] 09 p1369 N84-18935
The impact of VLSI on signal processing 09 p1402 N84-19159
Active databases as a paradigm for enhanced computing environments
[AD-A135808] 09 p1404 N84-19177

Extending grammars to new domains
[AD-A137110] 10 p1567 N84-20266
Systemic grammar in computation: The Nigel case
[AD-A139251] 14 p2209 N84-24262
Automating the transformational development of software, volume 1
[AD-A139860] 15 p2392 N84-25355
Automating the transformational development of software. Volume 2: Appendices
[AD-A139918] 15 p2392 N84-25356
The MOSIS (MOS implementation) system (What it is and how to use it)
[AD-A139744] 15 p2418 N84-25517
Discourse structures for text generation
[AD-A140278] 16 p2546 N84-26342
Reuse in the context of a transformation based methodology
[AD-A141514] 19 p2984 N84-28910
Specification and transformation: Automated implementation
[AD-A141064] 19 p3074 N84-29505
Tools for specification validation and understanding
[AD-A141079] 19 p3074 N84-29506
Graphics language, version 2.2
[AD-A142438] 20 p3272 N84-30772
Implementation of INTERLISP on the VAX
[AD-A141707] 21 p3465 N84-31967
Satellite communication of real-time packet video images
[AD-A143613] 23 p3730 N84-33643
Name server design for distributed systems
[AD-A143634] 23 p3812 N84-34173
The domain name system
[AD-A143618] 23 p3817 N84-34201

UNIVERSITY OF SOUTHERN CALIFORNIA, REDONDO BEACH.

A performance-based technique for assessing equipment maintainability
[AD-A133518] 06 p0894 N84-15809

UNIVERSITY OF SOUTHERN ILLINOIS, CARBONDALE.

How to protect a wind turbine from lightning
[NASA-CR-168229] 01 p0102 N84-10661
An estimation problem relating to subset selection for normal populations
[AD-A133387] 06 p0904 N84-15870

UNIVERSITY OF SOUTHERN MISSISSIPPI, HATTIESBURG.

Low energy electron magnetometer using a monoenergetic electron beam
[NASA-CASE-LAR-12706-1] 03 p0375 N84-12444
Improved polymers for enhanced-oil-recovery synthesis and rheology
[DE83-017371] 04 p0507 N84-13324
Thiazine dyes for use in photogalvanic cells
[DE84-009097] 15 p2330 N84-24990
Photogalvanic cells driven by electron transfer quenching of excited singlet states
[DE84-009099] 15 p2330 N84-24991

UNIVERSITY OF SOUTHWESTERN LOUISIANA, LAFAYETTE.

Automatic synthesis of abstract data type implementations from abstract specifications
08 p1211 N84-17896
A unified data flow model for fault tolerant computers
[NASA-CR-173479] 12 p1877 N84-22230
NASA RECON: Course development, administration, and evaluation
[NASA-CR-173922] 23 p3834 N84-34318

UNIVERSITY OF THE PACIFIC, FOREST GROVE, OREG.

Evaluation of factors producing visual evoked response variability
[AD-A133917] 06 p 0888 N84-15772

UNIVERSITY OF THE PACIFIC, STOCKTON, CALIF.

Influence of stress, weightlessness, and simulated weightlessness on differentiation of preosteoblasts
09 p 1354 N84-18846

UNIVERSITY OF WESTERN CAROLINA, CULLOWHEE, N.C.

The impact of factory automation and robotics on the contracting and acquisition processes
[AD-P002830] 13 p 2062 N84-23375

UNIVERSITY OF WESTERN ILLINOIS, MACOMB.

On system diagnosis with multivalued test outcomes
[AD-P002375] 14 p 2195 N84-24166

UNIVERSITY OF WESTERN MICHIGAN, KALAMAZOO.

Simultaneous electron capture and excitation in ion-atom collisions
[DE83-005799] 06 p0910 N84-15907
Research on nonparametric methods for linear models
[AD-A135850] 09 p1377 N84-18992
On the robust rank analysis of linear models with nonsymetric error distributions
[AD-A135792] 09 p1377 N84-18994
Robust estimation based on Walsh averages for the general linear model
[AD-A136187] 09 p1378 N84-19004
A robust multiple correlation coefficient for the rank analysis of linear models
[AD-A135666] 09 p1383 N84-19030
Testing hypotheses in linear models with weighted rank statistics
[AD-A135759] 09 p1383 N84-19032
Correlated charge changing interactions and K X-ray emission in ion-atom collisions
[DE84-008645] 18 p2930 N84-26580
Use of sperm enzymes to detect genotoxic agents
[AD-A142724] 20 p3260 N84-30691

UNIVERSITY SPACE RESEARCH ASSOCIATION, HUNTSVILLE, ALA.

Evaluation of 2 1-D cloud models for the analysis of VAS soundings
[NASA-CR-3771] 06 p0881 N84-15729
NASA/MSFC ground-based Doppler lidar nocturnal boundary layer experiment (Noblex)
[NASA-CR-3778] 11 p1731 N84-21293

UOP, INC., SAN DIEGO, CALIF.

Development and demonstration of a spiral-wound thin-film composite membrane system for the economical production of oxygen-enriched air, phases 1, 2 and 3
[DE84-002918] 07 p0972 N84-16298

UPPSALA IONOSPHERIC OBSERVATORY (SWEDEN).

Activities report on ionospheric observation
[UIO-AR-83-05] 03 p0409 N84-12674
Observations of stimulated electromagnetic emissions during ionospheric heating experiments
05 p0635 N84-14179
Experimental and theoretical aspects of the generation of MHD waves by chemical releases in the ionosphere
05 p0639 N84-14206
Ionospheric observation activities report
[UIO-SR-84-01] 17 p2728 N84-27367

UPPSALA UNIV. (SWEDEN).

First observations of 140 MHz plasma line backscatter during healthy experiments at Tromsoe
[UIO-SR-84-02] 20 p3243 N84-30588
The growth of plurisubharmonic functions in infinite domain 22 p3634 N84-33033

URBAN INST., WASHINGTON, D.C.

Motivating managers: A guide to performance targeting and performance-based pay in state and local governments
[PB83-237834] 02 p0301 N84-11978

URBAN MASS TRANSPORTATION ADMINISTRATION, WASHINGTON, D.C.

Microcomputers in transportation: Software and source book
[PB84-195155] 22 p3638 N84-33067

URW UNTERNEHMENSBERATUNG, HAMBURG (WEST GERMANY).

Development of hardware and software for automatic optical surface inspection with laser scanners
[BMFT-FB-T-84-111] 23 p3755 N84-33805

UTAH STATE UNIV., BEDFORD, MASS.

Atmosphere temperature profile recovery using partial interferometry
[AD-A144196] 24 p3919 N84-34810

UTAH STATE UNIV., LOGAN.

Wave and particle observations associated with the beam plasma discharge in a space simulation chamber
04 p0489 N84-13210
Electrodynamic tether experiments in the ionosphere
05 p0642 N84-14222
A study of plasmaspheric density distributions for diffusive equilibrium conditions
[AD-A132643] 05 p0703 N84-14615
Gravitropism in leafy dicot stems
09 p1355 N84-18857
Space Shuttle charging results
[AD-P002104] 16 p2522 N84-26190
Models of the ionospheric environment
[AD-P002121] 16 p2524 N84-26207
Fuzzy algorithms for pattern recognition
[AD-P003119] 16 p2533 N84-26260
Evidence for parallel elongated structures in the mesosphere 17 p2689 N84-27122
Water geochemistry of hydrothermal systems, Wood River District, Idaho
[DE84-012190] 21 p3431 N84-31769
LWIR signature from EXCEDE SPECTRAL
[AD-A144169] 24 p3860 N84-34463
Hypervelocity supersonic nozzle beam source of atomic oxygen 24 p3863 N84-34480
Design study of ion anti-contamination system
[AD-A144197] 24 p3963 N84-35097

UTAH UNIV., SALT LAKE CITY.

Stormer equation implementation using offset dipole coordinates derived from specified geographic coordinates
[AD-A130079] 01 p0104 N84-10678
The high zenith angle limits of cosmic ray access to an Earth satellite
[AD-A130216] 01 p0166 N84-11092
Technical and economic study of ethanol distillation from low temperature sources
[DE83-013073] 02 p0204 N84-11327
Internal noise of low-frequency preamplifiers
[AD-A131532] 02 p0213 N84-11398
Land use inventory of Salt Lake County, Utah from color infrared aerial photography 1982
[E84-10015] 02 p0237 N84-11553
Three-dimensional model for wind flow and pollutant transport-diffusion over complex terrain
02 p0243 N84-11591
Numerical simulation of global ozone transport during stratospheric sudden warming 02 p0245 N84-11605
Parameterization of solar radiative transfer in clear and cloudy atmospheres 02 p0246 N84-11608
Ultrasound tomography by Galerkin or moment methods
[AD-A131408] 02 p0266 N84-11747
Explicit, nearly optimal, linear rational approximation with preassigned poles
[AD-A131392] 02 p0280 N84-11837
Rational function frequency extrapolation in ultrasonic tomography
[AD-A131447] 02 p0288 N84-11888
Identifying environmental features for land management decisions
[E84-10016] 03 p0392 N84-12556
Electrochemistry of chemically sensitive field effect transistors
[AD-A133984] 05 p0674 N84-14427
Three-dimensional magnetotelluric interpretation
05 p0706 N84-14632
A portable real-time data processing system for standard meteorological radiosondes
[NASA-CR-175358] 07 p1036 N84-16719
Electrode noise in beta aluminas
[AD-A134837] 08 p1152 N84-17497
Constraint driven synthesis of hardware design
08 p1207 N84-17870
International Conference on Stiff Computation
[AD-A135265] 08 p1219 N84-17956
The cosmic ray energy spectrum from 2 x 10-17 to 10-e-19 EV 08 p1246 N84-18146
An adaptive, noise tolerant, frequency extrapolation algorithm for diffraction corrected ultrasound tomography
[AD-A136455] 09 p1375 N84-18982
Electrochemistry of anilines. 2: Oxidation to dications, electrochemical and UV/VIS spectroelectrochemical investigation
[AD-A136949] 10 p1454 N84-19498
Voltammetric studies of Zomepirac sodium and its determination in tablets by differential-pulse polarography
[AD-A136982] 10 p1455 N84-19499
Simulation of edge effects in electroanalytical experiments by orthogonal collocation. Part 4: Application to voltammetric experiments
[AD-A136988] 10 p1455 N84-19500
Electrochemically Modulated Infrared Spectroscopy (EMIRS). Experimental details
[AD-A137040] 10 p1455 N84-19503
Polymerization of 3-methyl-2,5-Dibromothiophene utilizing n-butyl lithium and Copper(II) chloride
[AD-A136955] 10 p1468 N84-19585
Anodic oxidation of furans in aprotic solvents
[AD-A137081] 10 p1468 N84-19587
Some mathematical tools for a modeller's workbench
12 p1873 N84-22204
Computer-aided surface representation and design
12 p1875 N84-22218
Rediflow multiprocessing
[DE84-003194] 12 p1884 N84-22282
Theoretical and experimental study of solid phase miscibility gaps in 3/4 quaternary alloys
[DE84-004391] 12 p1915 N84-22478
Generation of vehicle wobbling by the unsteady flow field in a spinning solid propellant rocket motor
13 p1945 N84-22648
Prediction of atmospheric flow and dispersion over sloping terrain 13 p2012 N84-23056
Riparian habitat on the Humboldt River, Deeth to Elko, Nevada
[E84-10116] 14 p2167 N84-23976
Enviropod handbook: A guide to preparation and use of the Environmental Protection Agency's light-weight aerial camera system
[E84-10123] 14 p2168 N84-23982

EPA Enviropod. A summary of the use of the Enviropod under a Memorandum of Understanding among EPA Region 8, the State of Utah, and the University of Utah Research Institute
[E84-10124] 14 p2168 N84-23983
Identifying environmental features for land management decisions
[E84-10125] 14 p2168 N84-23984
A stereospecific vapor detector
[AD-A139965] 15 p2337 N84-25028
Studies on light scattering and absorption properties of ice clouds for visible and infrared laser wavelengths
[AD-A140528] 16 p2557 N84-26405
Quantum solutions and strange solutions in many-body problems
[AD-A140436] 16 p2565 N84-26459
Matrix cracking in composites and its effects on damaged ply constitutive behavior
17 p2677 N84-27052
Manufacture of DPFC-DMS polymer in the SKG range
[NASA-CR-166276] 18 p2817 N84-27888
Transformation of Ada program units into silicon
[AD-A141004] 18 p2833 N84-27986
Spectral averaging and low-frequency sampling modifications for the IQS 401 FFT (Fast Fourier Transform) spectrum analyzer
[AD-A141181] 18 p2834 N84-27990
Fourier transform photoacoustic spectroscopy
[DE84-010216] 19 p2990 N84-28946
Bias removal for conventional magnetotelluric data
[DE84-012189] 20 p3241 N84-30579
Biological effects of millimeter-wave irradiation: Living bacterial organisms
[AD-A142474] 20 p3256 N84-30670
Electrolytic degradation of lithia-stabilized polycrystalline beta-alumina
[DE84-008668] 20 p3311 N84-31027
Results of a detailed gravity survey in the Alamosa area, Alamosa County, Colorado
[DE84-012188] 21 p3444 N84-31853
Acoustic propagation in a thermally stratified atmosphere
[NASA-CR-173863] 21 p3491 N84-32121
Effect of processing conditions on the reliability of crosslinked polyethlene cable insulation
[DE84-014902] 22 p3560 N84-32546
Carbon-13 and proton nuclear magnetic resonance analysis of shale-derived refinery products and jet fuels and of experimental referee broadened-specification jet fuels
[NASA-CR-174761] 22 p3561 N84-32552

UTRECHT STATE UNIV. (NETHERLANDS).
Distributed computing 08 p1208 N84-17874
Systolic computation and VLSI
08 p1208 N84-17877

V

VACUUMSCHMELZE G.M.B.H., HANAU (WEST GERMANY).
Amorphous metals with high magnetic permeability
[BMFT-FB-T-84-056] 19 p2996 N84-28983
Investigations of magnetic wires for sensor applications
[BMFT-FB-T-84-110] 23 p3752 N84-33787

VALENCIA UNIV. (SPAIN).
Use of satellites in frost forecasting: SIPHES
23 p3775 N84-33931

VALTEC, WEST BOYLSTON, MASS.
Design, fabrication and testing of a ruggedized fiberoptic cable 11 p1724 N84-21245
Optical and mechanical properties of single mode cables at 1300 nm 11 p1726 N84-21258

VALVO G.M.B.H., HAMBURG (WEST GERMANY).
Development of new integrated concepts for digital color video processing
[BMFT-FB-T-83-079] 02 p0210 N84-11375
Further development in electron beam lithography
[BMFT-FB-T-83-099] 02 p0216 N84-11415
Predevelopment of IR-CCD components
[BMFT-FB-T-83-133] 03 p0456 N84-13001
Development of technology, circuit design and simulation procedures for Very Large Scale Integration (VLSI) systems, volume 1
[BMFT-FB-T-83-170-VOL-1] 10 p1487 N84-19724
Development of technology, circuit design and simulation procedures for Very Large Scale Integration (VLSI) systems, volume 2
[BMFT-FB-T-83-170-VOL-2] 10 p1487 N84-19725
High speed, low power MOS technologies
[BMFT-FB-T-83-289] 12 p1916 N84-22484
All solid state CCD image sensor
[BMFT-FB-T-84-046] 19 p3113 N84-29778

VALVO ROEHREN- UND HALBLEITERWERKE DER PHILIPS G.M.B.H., HAMBURG (WEST GERMANY).
Nonvolatile, electrically erasable programmable ROM
[BMFT-FB-T-84-008] 15 p2412 N84-25482
VLSI systems of digital signal processing for consumer applications
[BMFT-FB-T-84-060] 19 p3019 N84-29143

VAN VLECK OBSERVATORY, MIDDLETOWN, CONN.
On the frequency of wide pairs among nearby dwarf stars 09 p1412 N84-19236

VANDERBILT UNIV., NASHVILLE, TENN.
Spectroscopic studies of lasing transitions in the diatomic mercury halides
[AD-A131466] 02 p0226 N84-11481
Intracellular calcium receptors: Calmodulin and related proteins 02 p0263 N84-11724
Carboxylic acid ionophores as probes of the role of calcium in biological systems 02 p0264 N84-11735
Computational spectroscopy
[DE84-003754] 07 p0971 N84-16290
Theoretical studies of atomic transitions
[DE84-002628] 07 p1073 N84-16970
Physiological changes in fast and slow muscle with simulated weightlessness 09 p1354 N84-18850
A finite element model for the analysis and optimal design of beams and plates with variable flexural rigidity
21 p3417 N84-31668
A statistical classification model for a database system 21 p3517 N84-32279
A non-first-normal-form relational database model
21 p3517 N84-32280
Substitution and conservation technology for chromium 23 p3703 N84-33473

VARIAN ASSOCIATES, PALO ALTO, CALIF.
The 60-GHz gyrotron development program
[DE83-012922] 02 p0214 N84-11402
Organometallic epitaxy for GaAs/AlGaAs microwave transistors and integrated circuits
[AD-A133569] 06 p0923 N84-16001
Klystron manufacturing technology program
[AD-A135782] 09 p1309 N84-18555
Analysis of the output mode from 60 GHz, 200 kW pulsed and CW gyrotrons
[DE84-004586] 10 p1497 N84-19785
First 200 kW CW operation of a GHz gyrotron
[DE84-004573] 10 p1498 N84-19794
Infrared monitoring of gyrotron windows
[DE84-004442] 10 p1499 N84-19799
The 100 GHz, 1 MW, CW gyrotron study program
[DE84-005751] 12 p1813 N84-21819
60 GHz gyrotron development program
[DE84-006606] 13 p1967 N84-22899
Low-cost GaAs solar cell development
[AD-A138938] 13 p2047 N84-23280
Development of high-efficiency concentrator cell configuration
[DE84-008356] 14 p2173 N84-24012
Development of mechanically-stacked multijunction solar cell for concentrator applications
[DE84-008355] 15 p2363 N84-25177
Development of a 30 percent efficient 3-junction monolithic cascade solar cell 19 p3047 N84-29328

VARIGAS RESEARCH, INC., TIMONIUM, MD.
Efficiency of compressed-air systems
[DE84-002599] 05 p0663 N84-14361
Compressed air systems: A guidebook on energy and cost savings
[DE84-008802] 20 p3170 N84-30133

VARTA AKTIENGESELLSCHAFT FORSCHUNGS- UND ENTWICKLUNGSZENTRUM, KELKHEIM (WEST GERMANY).
Nickel cadmium cell SD 15 K, qualification and operation of a modularized battery 50 Ah, 100 v
[BMFT-FB-W-83-030] 10 p1488 N84-19728

VARTA BATTERIE A.G., KELKHEIM (WEST GERMANY).
Development of a modular battery
[BMFT-FB-W-83-021] 08 p1153 N84-17504
Lead-acid battery with improved cycle life and increased efficiency for lead leveling application and electric road vehicles
[BMFT-FB-T-83-225] 10 p1489 N84-19734

VDO-LUFTFAHRTGERAETE WERK ADOLF SCHINDLING G.M.B.H., FRANKFURT (WEST GERMANY).
Computer symbol generator and control panel for an integrated cockpit color display information system
[BMFT-FB-W-83-007] 02 p0179 N84-11169

VEDA, INC., DAYTON, OHIO,
Some management initiatives to improve embedded commercial computer and training device life cycle support
[AD-P003494] 21 p3514 N84-32260

VEECO INSTRUMENTS, PLAINVIEW, N.Y.
Dry etching of metallization 12 p1840 N84-21997

VEREINIGTE ALUMINIUM-WERKE A.G., BONN (WEST GERMANY).
Manufacturing and properties of aluminum sheet from mixed scrap materials
[BMFT-FB-T-84-007] 15 p2296 N84-24776

VEREINIGTE ELEKTRIZITAETSWERKE WESTFALEN A.G., DORTMUND (WEST GERMANY).
Testing of the box transformer 10/04.4 kV in the network of the electricity supply company
[BMFT-FB-T-83-165] 07 p1000 N84-16483

VEREINIGTE FLUGTECHNISCHE WERKE G.M.B.H., BREMEN (WEST GERMANY).
Influence of main design parameters on flutter behaviour for aircraft configurations with heavy concentrated masses 02 p0170 N84-11122
Modification of wing design to increase lift for future Airbus derivatives (NEW)
[BMFT-FB-W-83-005] 02 p0178 N84-11167
Ground and inflight operational effects of APU's
03 p0335 N84-12182
Civil component program integrated Wing-Engine-System (IFAS), phase 1
[BMFT-FB-W-83-018] 10 p1429 N84-19343
Long term in-service evaluation of CFRP components (spoilers) on Airbus A300, phase 1
[BMFT-FB-W-83-028] 10 p1429 N84-19344
On improving the fatigue performance of a double-shear lap joint
[VFW-29/83-O] 16 p2561 N84-26431
Ground and inflight operational effects of APU's
[VFW-30/83-O] 16 p2562 N84-26438
Unsteady aerodynamics of moving control surfaces at the Airbus wing
[BMFT-FB-W-84-001] 19 p2968 N84-28811

VERMONT UNIV., BURLINGTON.
Mechanical signature analysis
10 p1505 N84-19843
Damped pneumatic spring as shock isolator: Generalized analysis and design procedure
10 p1515 N84-19916
Organophosphazenes: 17: The synthesis of trimethylsilylacetylene and terminal acetylene derivatives of hexfluorocyclotriphosphazene
[AD-A141429] 19 p2983 N84-28906
Sensitivity based segmentation and identification in automatic speech recognition
[AD-A142255] 19 p3008 N84-29068
Influence of the interfacial layer on electrooptical properties of heterojunction solar cells
[DE84-013285] 22 p3618 N84-32925

VERVE RESEARCH CORP., ROCKVILLE, MD.
General aviation pilot and aircraft activity survey
[PB84-154301] 14 p2100 N84-23602

VICOM SYSTEMS, INC., SAN JOSE, CALIF.
Digital image processing and analysis
16 p2490 N84-25974

VICTORIA UNIV. (BRITISH COLUMBIA).
The simplification of multiple-valued symmetric functions
[AD-P002340] 14 p2191 N84-24131

VICTORIA UNIV., WELLINGTON (NEW ZEALAND).
ISPM and the heliosphere 09 p1260 N84-18228

VIGYAN RESEARCH ASSOCIATES, INC., HAMPTON, VA.
Vortical flow management for improved configuration aerodynamics: Recent experiences
03 p0326 N84-12129

VILLANOVA UNIV., PA.
Ultraviolet studies of nova-like variables with the IUE
[NASA-CR-175233] 07 p1089 N84-17080
Application of stress-generated heat in composites to thermographic NDT 15 p2310 N84-24864

VIRGINIA ASSOCIATED RESEARCH CENTER, NEWPORT NEWS.
TWINTN4: A program for transonic four-wall interference assessment in two-dimensional wind tunnels
[NASA-CR-3777] 08 p1106 N84-17189

VIRGINIA HIGHWAY AND TRANSPORTATION RESEARCH COUNCIL, CHARLOTTESVILLE.
Microwave reflection measurements of the dielectric properties of concrete
[PB84-173624] 17 p2654 N84-26976

VIRGINIA MASON RESEARCH CENTER, SEATTLE, WASH.
Interaction of anti-G measures and chest wall mechanics in determining gas exchange
[AD-A133740] 06 p0889 N84-15775

VIRGINIA POLYTECHNIC INST. AND STATE UNIV., BLACKSBURG.
A dynamic model for aircraft poststall departure
01 p0012 N84-10077
Viscous shock-layer predictions of three-dimensional nonequilibrium flows past the space shuttle at high angle of attack 01 p0024 N84-10151

Advanced fatigue damage development in graphite epoxy laminates
[AD-A130190] 01 p0031 N84-10194
A critical study of the role of the surface oxide layer in titanium bonding
[NASA-CR-174531] 01 p0041 N84-10266
Improved transistor-controlled and commutated brushless DC motors for electric vehicle propulsion
[NASA-CR-168053] 01 p0069 N84-10450
Update and review of accuracy assessment techniques for remotely sensed data
[E84-10029] 01 p0099 N84-10646
Advanced fatigue damage development in graphite epoxy laminates 02 p0187 N84-11216
A simple model for the depolarizing effects of rain and ice on Earth-satellite links in the 10 to 30 GHz frequency range
[NASA-CR-174482] 02 p0211 N84-11382
Parameter identification and control of distributed-parameter systems 02 p0286 N84-11873
Relative elevation determination from LANDSAT imagery 03 p0392 N84-12558
Perturbation methods for slightly damped gyroscopic systems 04 p0537 N84-13534
Continued research on selected parameters to minimize community annoyance from airport noise
[NASA-CR-174607] 04 p0559 N84-13688
Solution of the 2-point boundary value problems of optimal spacecraft rotational maneuvers 04 p0586 N84-13870
Injection, atomization, ignition and combustion of liquid fuels in high-speed air streams
[AD-A133806] 05 p0648 N84-14264
Advances in computer-aided process planning
[PB83-252254] 05 p0664 N84-14362
Experimental study of active vibration control
[AD-A133818] 05 p0692 N84-14546
Geometrically nonlinear analysis of layered anisotropic plates and shells 05 p0695 N84-14562
Computational and experimental study of trailing vortices 06 p0779 N84-15103
Fatigue damage-strength relationships in composite laminates. Volume 1
[AD-A133485] 06 p0799 N84-15206
Nonlinear viscoelastic characterization of structural adhesives
[NASA-CR-172279] 06 p0809 N84-15268
The influence of surface roughness on the transfer and wear of polymers
[AD-A133527] 06 p0810 N84-15275
Spatial reasoning to determine stream network from LANDSAT imagery
[E84-10063] 06 p0865 N84-15632
Two stochastic modeling problems in communications and navigation
[AD-A133458] 06 p0905 N84-15873
Climb-dash real-time calculations
[NASA-CR-173184] 07 p0943 N84-16115
On-board near-optimal climb-dash energy management 07 p0943 N84-16116
Optimal symmetric flight with an intermediate vehicle model 07 p0943 N84-16117
Energy state revisited 07 p0943 N84-16118
Optimal symmetric flight with an intermediate vehicle model
[NASA-CR-173181] 07 p0951 N84-16167
Flow trajectories, mixing and entropy fluxes in a turbine cascade 07 p0955 N84-16193
Surface analysis in composite bonding
[NASA-CR-175353] 07 p0967 N84-16264
Development of improved coating for advanced carbon-carbon components
[NASA-CR-173248] 07 p0967 N84-16265
Input filter compensation for switching regulators
[NASA-CR-173247] 07 p0996 N84-16459
A computer study of detonation waves in dispersed powdered high explosives
[AD-A134226] 07 p1054 N84-16827
Analysis and acoustooptical measurements of bulk and surface acoustic wave fields
[NASA-CR-173271] 07 p1069 N84-16945
Muon spin rotation in solids
[NASA-CR-172789] 08 p1234 N84-18067
Design and evaluation of a pulsating-flow wind tunnel
[PB84-116086] 09 p1260 N84-18223
Control of large flexible spacecraft by the independent modal-space control method
[NASA-CR-3760] 09 p1265 N84-18262
Viscoelastic analysis of adhesive stresses in bonded joints
[NASA-CR-173243] 09 p1288 N84-18411
Exact and finite-element analysis of laminated shells
[AD-A135849] 09 p1332 N84-18695
A comparison of optical versus hardware fourier transforms
[AD-A136223] 09 p1373 N84-18963
Recursive interpolation of space-limited scenes
[AD-A136215] 09 p1379 N84-19007
Siloxane modifiers for epoxy resins
[AD-A136782] 10 p1467 N84-19582
Heat transfer in oscillatory flow
[DE84-005193] 10 p1494 N84-19768
An assessment of the accuracy of orthotropic photoelasticity
[NASA-CR-3773] 10 p1516 N84-19924
GENIE: A computer-based task for experiments in human-computer interaction
[AD-A137473] 10 p1553 N84-20181
Issues in interaction language specification and representation
[AD-A136943] 10 p1555 N84-20188
The behavioral demonstrator: A requirements specification executor
[AD-A136944] 10 p1555 N84-20189
Dialogue management: New concepts in human-computer interface development
[AD-A136945] 10 p1555 N84-20190
Applied mathematics of transport theory
[DE84-004135] 10 p1590 N84-20422
Fracture behavior of thick, laminated graphite/epoxy composites
[NASA-CR-3784] 11 p1627 N84-20648
Quality metrics of digitally derived imagery and their relation to interpreter performance: 8
[AD-A137726] 11 p1660 N84-20830
A revised STONEMAN for distributed Ada (trademark) support environments
[AD-A137940] 11 p1707 N84-21127
Contact stresses in pin-loaded orthotropic plates
[NASA-CR-173475] 12 p1825 N84-21900
Simultaneous analysis and design
[NASA-CR-172334] 12 p1826 N84-21902
Rainfall chemistry and potential beneficial-detrimental impact to indigenous vegetation
[AD-A138471] 12 p1845 N84-22027
Three-dimensional nonequilibrium viscous shock-layer flow over the Space Shuttle orbiter 13 p1925 N84-22530
Calculation of the flow over a stalled airfoil 13 p1925 N84-22531
Three-dimensional nonequilibrium viscous shock-layer flows over complex reentry vehicles 13 p1927 N84-22543
Experimental investigation of the internal flow field in STOL engine inlets 13 p1927 N84-22544
Application of control theory to large flexible structures using the independent modal-space control method 13 p1940 N84-22617
Active control of distributed structures 13 p1940 N84-22618
Measurement of solid propellant burning rates employing microwave techniques 13 p1944 N84-22640
Thermoset-thermoplastic aromatic polyamide containing N-propargyl groups
[NASA-CASE-LAR-12723-2] 13 p1962 N84-22746
Ultrasonic transducer with Gaussian radial pressure distribution
[NASA-CASE-LAR-12967-1] 13 p1993 N84-22932
An evaluation of algorithms for extracting stress intensity factors from photoelastic data for 3 dimensional problems 13 p2000 N84-22974
Large deformation behavior of long shallow cylindrical composite panels
[NASA-CR-173286] 13 p2000 N84-22975
Assessment of microdamage development during tensile loading of graphite/epoxy laminates
[AD-A139128] 14 p2119 N84-23701
Fatigue damage - strength relationships in composite laminates, volume 2
[AD-A139241] 14 p2120 N84-23704
The influence of surface topography on polymer friction 14 p2153 N84-23899
CLFE2D: A generalized plane strain finite element program laminated composites subject to mechanical and hygrothermal loading
[NASA-CR-173507] 14 p2157 N84-23921
Anodic oxide formation on Ti-6Al-4V in chromic acid for adhesive bonding
[AD-A140057] 15 p2298 N84-24790
Surface and bulk phase separations in block copolymers and their blends
[AD-A140020] 15 p2302 N84-24815
An integral optical method for determining stress intensity factors 15 p2311 N84-24866
Ice depolarization on low-angle 2 GHz satellite downlinks 15 p2323 N84-24946
Input filter compensation for switching regulators
[NASA-CR-173557] 15 p2327 N84-24975
Human-computer interactions and decision behavior
[AD-A139759] 15 p2384 N84-25299
Temperature dependence of elastic and strength properties of T300/5208 graphite-epoxy
[NASA-CR-173616] 16 p2460 N84-25767
Residual stresses in cross-ply composite tubes
[NASA-CR-173540] 16 p2460 N84-25768
Thermo-mechanical and thermal behavior of high-temperature structural materials
[AD-A140520] 16 p2461 N84-25775
Cumulative creep damage for polycarbonate and polysulfone
[NASA-CR-173433] 16 p2471 N84-25840
Microbiological and biochemical studies towards optimization of substrate utilization by methanogenic bacteria
[PB84-179753] 16 p2474 N84-25859
Three-dimensional laminar separation
[AD-A140378] 16 p2493 N84-25993
A critical review of noise production models for turbulent, gas-fueled burners
[NASA-CR-3803] 16 p2554 N84-26384
The nonlinear viscoelastic response of resin matrix composite laminates
[NASA-CR-3772] 17 p2617 N84-26750
Leakage currents in degraded multi-layer ceramic capacitors
[AD-A140157] 17 p2662 N84-26985
Computer-aided design of robots 17 p2674 N84-27037
The stress distribution in pin-loaded orthotropic plates 17 p2678 N84-27059
Finite element analysis of bonded joints
[AD-A140559] 17 p2680 N84-27068
Solar collector test procedures: Development of a method to refer measured efficiencies to standardized test conditions
[PB84-165299] 17 p2723 N84-27333
A non-dimensional analysis of cardiovascular response to cold stress. Part 1: Identification of the physical parameters that govern the thermoregulatory function of the cardiovascular system
[AD-A138710] 17 p2745 N84-27429
A specification technique for the common APSE (Ada programming support environments) interface set
[AD-A140889] 17 p2754 N84-27479
An analysis of relationships among size, technology and structure in a contextually limited setting 17 p2771 N84-27597
A fundamental approach to the sticking of insect residues to aircraft wings
[NASA-CR-173721] 18 p2791 N84-27717
Composite laminates with negative through-the-thickness Poisson's ratios
[NASA-CR-173681] 18 p2809 N84-27830
Intrinsic mechanisms of multi-layer ceramic capacitor failure
[AD-A141050] 18 p2834 N84-27988
Visual display technology: A developing challenge for the behavioral scientist
[AD-P003290] 18 p2908 N84-28441
Free edge strain concentrations in real composite laminates: Experimental-theoretical correlation
[NASA-CR-173818] 19 p2986 N84-28919
Analytical model of strength loss in filament wound spherical vessels
[DE84-010213] 19 p2986 N84-28923
Real jet effects on dual jets in a crossflow
[NASA-CR-173817] 19 p3022 N84-29161
Seismic response for multicomponent earthquakes
[PB84-193747] 20 p3204 N84-30354
Operator performance on flat-panel displays with line and cell failures
[AD-A142340] 20 p3265 N84-30716
Applied mathematics of transport theory
[DE84-011498] 20 p3282 N84-30838
Residual strength of five boron/aluminum laminates with crack-like notches after fatigue loading
[NASA-CR-3815] 21 p3357 N84-31290
A shear deformable shell element for laminated composites 21 p3420 N84-31691
Direct generation of seismic floor response spectra for classically and nonclassically damped structures
[PB84-191675] 21 p3445 N84-31860
Analytical investigation of synchrophasing as a means of reducing aircraft interior noise
[NASA-CR-3823] 21 p3491 N84-32123
Analysis, testing, and evaluation of faulted and unfaulted Wye, Delta, and open Delta connected electromechanical actuators
[NASA-CR-171808] 22 p3585 N84-32707
Space Station 23 p3701 N84-33456
A characterization of the fracture behavior of thick, notched, laminated graphite-epoxy composites 23 p3710 N84-33519
Nonlinear effects in hydrodynamic stability 23 p3748 N84-33762

Secondary instability of shear flows
23 p3748 N84-33763
Broken-formations of the Pulaski thrust sheet near Pulaski, Virginia
23 p3794 N84-34061
Effect of physical properties on break-up and atomization of liquid jets in a supersonic crossflow
24 p3851 N84-34427
Prediction of crack extension direction in unidirectional composites
[VPI-E-84-27] 24 p3878 N84-34572
A comparison of experimental and theoretical results for leakage, pressure distribution, and rotordynamic coefficients for annular gas seals
[NASA-CR-174000] 24 p3910 N84-34765

VIRGINIA UNIV., CHARLOTTESVILLE.
Optimal constrained representation and filtering of signals
[AD-A129157] 01 p0069 N84-10453
Design and testing of high performance brushes
[AD-A131348] 02 p0213 N84-11394
Experiments on the nuclear interactions of pions
[DE83-016285] 03 p0434 N84-12844
Digital control system for space structural dampers
[NASA-CR-175355] 07 p0964 N84-16246
Design study of magnetic eddy-current vibration suppression dampers for application to cryogenic turbomachinery
[NASA-CR-173273] 07 p1012 N84-16562
New horizons in electromagnetic physics
[DE84-002600] 08 p1230 N84-18039
Flowfield measurements in a model scramjet combustion using laser-induced iodine fluorescence
[NASA-CR-175399] 10 p1419 N84-19283
Carrier recovery methods for a dual-mode modem: A design approach
[NASA-CR-173355] 10 p1432 N84-19360
Lateral forces on pump impellers: A literature review
10 p1507 N84-19863
Rat body size, composition and growth at hypo- and hypergravity
[NASA-CR-175393] 10 p1545 N84-20126
Spectroscopy of surface adsorbed molecules
[DE84-005254] 10 p1589 N84-20417
Glow discharge as an atomization and ionization device
[DE84-005253] 11 p1629 N84-20662
Chemical ionization mass spectrometry: New methodology
[AD-A138037] 12 p1791 N84-21678
Turbulent flow annular pump seals: A literature review
12 p1822 N84-21875
The representation of manipulable solid objects in a relational database
12 p1871 N84-22190
The implementation and use of Ada on distributed systems with high reliability requirements
[NASA-CR-175413] 12 p1876 N84-22228
A knowledge based interactive procedure for planning and decision support under uncertainty and parameter imprecision
[AD-P002890] 13 p1979 N84-22851
An evaluation of ARIADNE (alternative ranking interactive aid based on dominance structure information elicitation)
[AD-P002891] 13 p1980 N84-22852
Award fee contract provisions as a program management tool
[AD-P002776] 13 p2054 N84-23323
Quantitative and experimental modelling of sapping networks
13 p2084 N84-23500
A note on mixed exponential approximations for GI/G/1 waiting times
[AD-A139534] 14 p2219 N84-24313
Magnetic impurities in superconductors
[DE84-007671] 14 p2243 N84-24467
Design considerations for a monolithic, GaAs, dual-mode, QPSK/QASK, high-throughput rate transceiver
[NASA-CR-173560] 15 p2327 N84-24974
Classification of coastal environments, shorezone profile dynamics
[AD-A139947] 15 p2373 N84-25240
Satellite observations of a monsoon depression
[NASA-CR-173590] 16 p2528 N84-26232
Tidal effects and globular clusters
16 p2578 N84-26542
The use of novel processing procedures for improving the overall fatigue resistance of high strength aluminum alloys
[AD-A141107] 19 p2993 N84-28966
Digital control system for space structural dampers
[NASA-CR-173867] 21 p3353 N84-31267
Literature review of tilting pad and turbulent hydrostatic journal bearings for nuclear main coolant pumps
21 p3418 N84-31680
The implementation and use of Ada on distributed systems with high reliability requirements
[NASA-CR-173841] 21 p3463 N84-31954
Climate prediction. Part 1: Cyclone frequency
[AD-A143576] 22 p3625 N84-32973
Research in computer science
[NASA-CR-173857] 22 p3637 N84-33056

VISIDYNE, INC., BURLINGTON, MASS.
SMM-UVSP ozone profile inversion programs
[NASA-CR-175216] 10 p1533 N84-20042

VITRO LABS., SILVER SPRING, MD.
Reliability and maintainability study of select solar-energy-system components in the National Solar Data Network
[DE83-011974] 03 p0404 N84-12647

VLIEGBASIS VOLKEL (NETHERLANDS).
Physiological and psychological aspects of the piloting of modern high-performance combat aircraft
06 p0778 N84-15099

VON KARMAN INST. FOR FLUID DYNAMICS, RHODE-SAINT-GENESE (BELGIUM).
Laser velocimetry study of compressibility effects on the flow field of a delta wing
03 p0322 N84-12108
Aeroacoustics: Ten Years of Research
[VKI-LS-1983-05] 06 p0767 N84-15025
A model of the trailing edge separation on an airfoil
[AD-A126703] 06 p0782 N84-15125
Introduction to computational fluid dynamics
[VKI-LS-1983-01] 06 p0834 N84-15429
A finite difference technique for laminar and turbulent compressible boundary layers
06 p0835 N84-15433
Unconfined gas explosions
[VKI-LS-1983-02] 06 p0835 N84-15438
Characterization of the pressure wave originating in the explosion of a gas cloud
06 p0836 N84-15446
Turbulent shear flows
[VKI-LS-1983-03] 06 p0837 N84-15448
Computational Fluid Dynamics, volume 1
[VKI-LS-1983-04-VOL-1] 06 p0838 N84-15461
Computational Fluid Dynamics, volume 2
[VKI-LS-1983-04-VOL-2] 06 p0839 N84-15467
Computation of turbulent gas-particle suspension flows in channels
06 p0839 N84-15470
Aerothermodynamics of Low Pressure Steam Turbines and Condensers, volume 1
[VKI-LS-1983-06-VOL-1] 06 p0840 N84-15472
Aerothermodynamics of Low Pressure Steam Turbines and Condensers, Volume 2
[VKI-LS-1983-06-VOL-2] 06 p0841 N84-15482
Two dimensional condensing flow in transonic turbine cascades
06 p0841 N84-15484
Thermohydraulics of liquid metals, volume 1
[VKI-LS-1983-07-VOL-1] 06 p0841 N84-15487
Turbulence modeling in liquid metal free convection
06 p0842 N84-15490
Thermohydraulics of liquid metals, volume 2
[VKI-LS-1983-07-VOL-2] 06 p0842 N84-15494
The effects of acoustic excitation on the mixing of two parallel laminar streams of fluid
[AD-A126788] 06 p0843 N84-15502
The salt-gradient solar pond
[AD-A126702] 06 p0873 N84-15683
Effects of a skewed inlet end wall boundary layer on the 3-D flow field in an annular turbine cascade
07 p0956 N84-16202
Similar velocity profiles and integral quantities of a boundary layer on a rotating cylinder
[VKI-NT-148] 08 p1160 N84-17553
Three dimensional/boundary layer interaction: Laminar and turbulent behaviour
[AD-A137060] 10 p1493 N84-19765
The study of an idealized wing/body junction
[AD-A139933] 15 p2257 N84-24559
The effect of strakes on vortical flows applied to aircraft
[AD-A139989] 15 p2257 N84-24560
Hypersonic Aerothermodynamics
[VKI-LS-1984-01] 16 p2440 N84-25656
Hypersonic test facilities
16 p2441 N84-25661
Unsteady Flow in Turbomachines, volume 1
[VKI-LS-1984-02-VOL-1] 16 p2488 N84-25960
Unsteady Flow in Turbomachines, volume 2
[VKI-LS-1984-02-VOL-2] 16 p2489 N84-25965
Structure of rotating stall cells. Part 1: Absolute motion
16 p2489 N84-25967
Structure of rotating stall cells. Part 2: Relative motion
16 p2490 N84-25970
Digital Image Processing in Fluid Dynamics
[VKI-LS-1984-03] 16 p2490 N84-25973
Laser speckle velocimetry in fluid dynamics applications
16 p2491 N84-25979
Computational Fluid Dynamics, volume 1
[VKI-LS-1984-04-VOL-1] 16 p2491 N84-25980
Computational Fluid Dynamics, volume 2
[VKI-LS-1984-04-VOL-2] 16 p2492 N84-25986
Secondary flows and endwall boundary layers in axial turbomachines
[VKI-LS-1984-05] 19 p3022 N84-29162
Experimental research on secondary flows in annular turbine cascades at the Von Karman Institute
19 p3022 N84-29165
Three-dimensional rotational inviscid flow calculation
19 p3022 N84-29166
A study of pollutant dispersal in a 2-dimensional field including gravity effects
[AD-A144295] 24 p3900 N84-34699

VOUGHT CORP., DALLAS, TEX.
Improved wave drag predictions using modified linear theory
[NASA-CR-174494] 03 p0320 N84-12096
Development of a contact heat exchanger for a constructable radiator system
[NASA-CR-171730] 08 p1155 N84-17523
High capacity heat pipe performance demonstration
[NASA-CR-171733] 08 p1157 N84-17531
Crew survivable helicopter undercarriage
[AD-A137770] 11 p1606 N84-20517
Flexible radiator thermal vacuum test report
[NASA-CR-171764] 11 p1623 N84-20622
Flexible radiator system
[NASA-CR-171765] 11 p1623 N84-20623
Flexible radiator system: Executive summary
[NASA-CR-171766] 11 p1623 N84-20624
Design and manufacturing practices to minimize corrosion in aircraft
16 p2435 N84-25620
Advanced prediction technique for the low speed aerodynamics of V/STOL aircraft. Volume 1: Technical discussion
[NASA-CR-166442-VOL-1] 17 p2600 N84-26662
Advanced prediction technique for the low speed aerodynamics of V/STOL aircraft. Volume 2: User's manual
[NASA-CR-166442-VOL-2] 17 p2600 N84-26663
Elliptical orbit performance computer program
[NASA-CR-165832] 18 p2920 N84-28515
NEMAR plotting computer program
[NASA-CR-165831] 18 p2920 N84-28516
Study of aerodynamic technology for single-cruise engine V/STOL fighter/attack aircraft
[NASA-CR-166271] 19 p2956 N84-28737
Moments of inclination error distribution computer program
[NASA-CR-165824] 19 p3073 N84-29501
Aircraft-store Electrical Interconnection System (AEIS) functional requirements
[AD-P003527] 21 p3330 N84-31131
Signal set standardization for the aircraft-store electrical interconnection system
[AD-P003528] 21 p3330 N84-31132
Low temperature evaluation of advanced technology hydraulic system (8,000 psi)
[AD-A143389] 22 p3538 N84-32396

VOUGHT CORP. ADVANCED TECHNOLOGY CENTER, INC., DALLAS, TEX.
Beta titanium alloy metal-metal laminates: Fabrication, structure and mechanical properties
[AD-A130378] 01 p0043 N84-10278
Afterbody propulsor performance validation for A 2.65 fineness ratio body advanced tactical vehicle
[AD-A131259] 01 p0080 N84-10517
The effect of environment on the mechanical behavior of AS/3501-6 graphite/epoxy material
[AD-A133331] 06 p0799 N84-15205

VRIJE UNIVERSITEIT, BRUSSELS (BELGIUM).
Finite element methods for potential flows
06 p0835 N84-15437
A viscid inviscid interaction procedure for two dimensional cascades
07 p0955 N84-16191
End-wall boundary layer calculations in multistage axial compressors
07 p0957 N84-16205

VSE CORP., CAMARILLO, CALIF.
A guide to the Electrical Analysis Software System (EASS)
[AD-A144680] 24 p3947 N84-34998

VTI, INC., DAYTON, OHIO.
A cost based acquisition planning model utilizing expert system concepts
[AD-P002783] 13 p2055 N84-23330

W

WAGENINGEN AGRICULTURAL UNIV. (NETHERLANDS).
Radar backscattering of forest stands
23 p3767 N84-33880
Estimating net rainfall, evaporation and water storage of a bare soil from sequential L-band emissivities
23 p3769 N84-33889

WAIKATO UNIV., HAMILTON (NEW ZEALAND).
Quantum theory of optical excitonic bistability
14 p2237 N84-24427
WAKE FOREST COLL., WINSTON-SALEM, N.C.
Atom-jump versus continuous models for fast ion conduction
11 p1741 N84-21357
WAKE FOREST UNIV., WINSTON-SALEM, N.C.
Measurement of thigmomorphogenesis and gravitropism by non-intrusive computerized video image processing
09 p1356 N84-18859
The roles of callose, elicitors and ethylene in thigmomorphogenesis and gravitropism
09 p1356 N84-18860
Quantum chemical study of methane oxidation species
[NASA-CR-173819] 19 p2987 N84-28928
WALES UNIV., SWANSEA.
High speed inviscid compressible flow by the finite element method
[NASA-CR-173556] 15 p2332 N84-25002
WALTER REED ARMY INST. OF RESEARCH, WASHINGTON, D.C.
Comparing well-being and stress of several high risk Army groups
[AD-P003264] 18 p2906 N84-28430
Animal models of human performance: Structural and functional approaches to extrapolating from animal to man
[AD-P003292] 18 p2908 N84-28442
Complex demodulation: A technique for assessing periodic components in sequentially sampled data
[AD-P003845] 24 p3939 N84-34933
WALTER REED ARMY MEDICAL CENTER, WASHINGTON, D.C.
Age effects on active duty Army MMPI (Minnesota Multiphasic Personality Inventory) profiles
[AD-P003343] 18 p2911 N84-28464
WANDEL UND GOLTERMANN G.M.B.H. UND CIE, ENINGEN UNTER ACHALM (WEST GERMANY).
Communication techniques: Measuring technique principles and application examples
05 p0671 N84-14410
WANZHONG MACHINERY PLANT, SICHUAN (CHINA).
Vector expansion transformation of logic algebra
[AD-P002349] 14 p2192 N84-24140
WAPORA, INC., WASHINGTON, D.C.
Survey of environmental regulations applying to geothermal exploration, development and use
[PB84-173665] 16 p2519 N84-26174
WARSAW UNIV. (POLAND).
On L sup p-integrability in PDE's and quasiregular mappings for large exponents 04 p0576 N84-13799
Absorptive optical bistability with laser amplitude fluctuations 14 p2238 N84-24430
WARSAW UNIV. OBSERVATORY (POLAND).
Analysis of MgII lines in algol
15 p2422 N84-25547
Model stellar atmosphere and spectrum computations with minicomputer 15 p2423 N84-25555
WARWICK UNIV. COVENTRY (ENGLAND).
The fairness problem and nondeterministic computing networks 08 p1209 N84-17883
WASHINGTON STATE DEPT. OF NATURAL RESOURCES, OLYMPIA.
Preparation of residual gravity maps for the southern Cascade Mountains, Washington using Fourier analysis
[DE84-012546] 19 p3055 N84-29384
Targeting geothermal exploration sites in the Mount St. Helens area using solid mercury surveys
[DE84-012547] 20 p3229 N84-30519
Geological and geothermal investigation of the lower Wind River valley southwestern Washington Cascade Range
[DE84-012545] 21 p3431 N84-31771
Complete Bouguer gravity anomaly map, Cascade Mountains, Washington
[DE84-012548] 21 p3445 N84-31856
WASHINGTON STATE ENERGY OFFICE, OLYMPIA.
Cost effectiveness of converting to alternative motor vehicle fuels. A technical assistance study for the city of Longview
[DE84-010479] 21 p3375 N84-31415
WASHINGTON STATE UNIV., PULLMAN.
Fracto-emission from polymers
[AD-A132462] 04 p0506 N84-13314
Focused acoustical and optical backscattering from spheres and properties of optoacoustic sources
[AD-A133744] 05 p0747 N84-14904
Estimation: Comments on least squares and other topics 09 p1411 N84-19227
Determining and modeling the response of piezoresistance transducers to dynamic loading
[AD-A137121] 10 p1498 N84-19788
Commentary on Columbia River instream flows
[PB84-133651] 10 p1527 N84-20007
Electronic spectra of condensed phase under shock conditions
[AD-A137531] 11 p1652 N84-20785
C1 K-edge X-ray absorption studies of concentrated ferric chloride solutions
[AD-A142190] 19 p2989 N84-28940
Multiple scattering effects in EXAFS (Extended X-ray Absorption Fine Structure): Comparison between theory and experiment for Pt metal
[AD-A142199] 19 p2989 N84-28941
Determination of structural parameters from EXAFS (Extended X-ray Absorption Fine Structure): Application to solutions and catalysts
[AD-A142205] 19 p2989 N84-28942
Study of strong electrolytes by X-ray spectroscopy at the c1 k-edge
[AD-A142225] 19 p2989 N84-28943
Fracto-emission from graphite/epoxy composites
[NASA-CR-173845] 21 p3357 N84-31291
Low temperature geothermal resource evaluation of the Moses Lake-Ritzville-Connell area, Washington
[DE84-012505] 21 p3432 N84-31773
Fracto-emission from polymers
[AD-A144149] 24 p3888 N84-34622
WASHINGTON UNIV., SEATTLE.
A study of transonic normal shock wave-turbulent boundary layer interactions in axisymmetric internal flow
01 p0002 N84-10015
Sulfur extended asphalt pavement evaluation in the State of Washington: SR 270 highway pavement performance report
[PB83-205567] 01 p0058 N84-10380
Sulfur extended asphalt pavement evaluation: Executive summary
[PB83-205971] 01 p0058 N84-10381
Advanced experimental techniques in crack tip analysis
[AD-A130719] 01 p0095 N84-10618
Hydroacoustics research in Seattle, Washington, 1967 - 1981. An annotated bibliography
[PB83-220483] 01 p0111 N84-10722
Aerodynamics of E-beam sustained discharges in flow
[AD-A130100] 01 p0141 N84-10926
A study of the convective atmospheric boundary and surface layers 02 p0246 N84-11609
Horizontal energy propagation and barotropic instability in a quasi-linear model of the atmosphere
02 p0247 N84-11614
A comparison of baroclinic eddy heat-transport parameterizations to a simplified general circulation model 02 p0252 N84-11650
A study of coherent structures in the near-neutral marine atmospheric boundary layer 03 p0406 N84-12658
Study of vibrational energy transfer at a surface by a time-of-flight method
[AD-A131798] 03 p0432 N84-12833
High temperature gas energy transfer
[AD-A131782] 03 p0433 N84-12836
University of Washington superconducting-booster project
[DE83-015689] 03 p0434 N84-12846
Clustering and ordering in 3-5 alloys
[AD-A131785] 03 p0452 N84-12974
Cross sections relevant to gamma-ray astronomy: Alpha-particle-induced reactions
[DE83-015533] 03 p0461 N84-13038
Problems of stellar evolution in star clusters of the Magellanic clouds 03 p0463 N84-13051
Ultra-relativistic heavy ions and cosmic rays
[DE83-015881] 03 p0476 N84-13134
Investigation of axisymmetric confined turbulent jet mixing in the near region with adverse pressure gradient
04 p0478 N84-13148
Reverse combustion along constant geometry fissures in heterogeneous fuels 04 p0492 N84-13232
A composite analysis of a tropical squall-line system
04 p0565 N84-13727
Precipitation development in midlatitude cyclones: A study of cloud structures and processes
04 p0566 N84-13728
A numerical study of cloud and precipitation processes in mesoscale rainbands 04 p0566 N84-13729
An abundance analysis of the cool barium stars
04 p0620 N84-14087
Baroclinic waves in the atmosphere of Mars: Observations, linear instability, and finite-amplitude evolution 04 p0621 N84-14094
Frequency-shaped estimation and robust controller design for aircraft flight control in wind disturbances
05 p0632 N84-14154
Soliton bag: Dynamics and the quark plasma
[DE84-001103] 05 p0745 N84-14895
The 182-Hf: A new short-lived r-process chronometer
[DE83-015698] 05 p0764 N84-15009
XCP measurements off California in October 1982: Cruise report and preliminary results
[AD-A133051] 06 p0885 N84-15754
Effects of long-term low-level radiofrequency radiation exposure on rats. Volume 1: Design, facilities, and procedures
[AD-A134079] 06 p0885 N84-15756
Average vibrational energy transfer during a single collision of excited molecules with heat bath molecules
[AD-A133391] 06 p0915 N84-15949
Giant dipole resonances built on excited states
[DE84-001549] 06 p0916 N84-15954
Hf-182: A new stopwatch for the early solar system
[DE83-011486] 07 p1090 N84-17088
Nonlinear resonance
[AD-A135117] 08 p1218 N84-17950
Scientific and technical information system for the Washington State Legislature
[PB84-100650] 08 p1241 N84-18112
Effects of long-term low-level radiofrequency radiation exposure on rats. Volume 3: SAR (Specific Absorption Rate) in rats exposed in 2450-MHz circularly polarized waveguide
[AD-A135376] 09 p1361 N84-18890
Effects of long-term low-level radiofrequency radiation exposure on rats. Volume 2: Average SAR and SAR distribution in man exposed to 450-MHz RFR
[AD-A135455] 09 p1361 N84-18891
A study of the discrepant QSO X-ray luminosity function from the HEAO-2 data archive
[NASA-CR-173311] 09 p1413 N84-19240
The vertical propagation of internal gravity waves in a compressible atmosphere 10 p1538 N84-20080
Self-monitoring. Cognitive processes and performance
[AD-A137043] 10 p1551 N84-20164
Interactive computer modeling of combustion chemistry and coalescence-dispersion modeling of turbulent combustion 11 p1612 N84-20553
Eddy: Mean flow interaction diagnostics
[AD-P002654] 11 p1690 N84-21019
The west spitsbergen current: Transport, forcing, and variability
[AD-A137532] 11 p1691 N84-21032
Borophosphate vitreous electrolytes: The relationship between local order, thermal stability and ion transport
11 p1743 N84-21372
Effects of long-term low-level radiofrequency radiation exposure on rats. Volume 4: Open-field behavior and corticosterone
[AD-A137743] 12 p1863 N84-22141
Interactive wire-frame ship hullform generation and display 12 p1874 N84-22209
Vibrational energy transfer at a surface in reacting systems. Decomposition of azomethane
[AD-A137966] 12 p1901 N84-22381
Mixing of swirling flows and behavior of wet flows
[AD-A138697] 13 p1989 N84-22915
Effects of long-term low-level radiofrequency radiation exposure on rats. Volume 5: Evaluation of the immune system's response
[AD-A138535] 14 p2184 N84-24087
Performance in dual tasks
[AD-A138603] 14 p2186 N84-24096
A Unified Model of Attention and Problem Solving
[AD-A138787] 14 p2186 N84-24097
Social support and performance in complex organizations
[AD-A138888] 14 p2186 N84-24098
Remote sensing of floe size distribution and surface topography
[E84-10132] 15 p2357 N84-25141
Basic and applied research related to the technology of space energy conversion systems, 1982 - 1983
[NASA-CR-173554] 15 p2361 N84-25168
A numerical study of the controlled flow tunnel for a high lift model
[NASA-CR-166572] 16 p2438 N84-25642
A numerical study of the controlled flow tunnel for a high lift model 16 p2452 N84-25721
Crack branching, crack arrest and rapid tearing
[AD-P003112] 16 p2468 N84-25817
A dynamic fracture assessment of impact damage in structural ceramics 16 p2469 N84-25826
Circumferential cracks in cylindrical shells
16 p2501 N84-26050
Chemical abundances in old open and metal-rich globular clusters in the galaxy 16 p2577 N84-26539
Scatterometer capabilities in remotely sensing geophysical parameters over the ocean: The status and the possibilities 17 p2712 N84-27268
Observing atmospheric water in storms with the Nimbus 7 scanning multichannel microwave radiometer
17 p2716 N84-27291

Physical performance tests as predictors of task performance
[AD-P003257] 18 p2905 N84-28424
Parallel programming and the poker programming environment
[AD-A141026] 18 p2921 N84-28523
Subgradient methods in deterministic and stochastic optimization
[AD-A141216] 18 p2926 N84-28556
Cosmic rays, solar activity, magnetic coupling, and lightning incidence
[NASA-CR-3812] 19 p3057 N84-29397
Using interactive computing to expand intelligence testing: A critique and prospectus
[AD-A141657] 19 p3072 N84-29489
Study of stimulated Brillouin and Raman scattering
[DE84-011260] 20 p3194 N84-30266
Vegetation and climates of the last 45,000 years in the vicinity of the Nevada Test Site, south-central Nevada
[DE84-009032] 20 p3247 N84-30610
Multivariate curve resolution in liquid chromatography
[DE84-013797] 22 p3549 N84-32466
Analysis of dynamic mixed-mode crack tip stress patterns
[AD-A143329] 22 p3611 N84-32880
The petrology, structure and geochemistry of an Archean terrane in the North Snowy Block, Beartooth Mountains, Montana 22 p3620 N84-32940
Geology, petrology and geochronology of the metamorphic rocks of Meatiq Dome, Central Eastern Desert, Egypt 22 p3621 N84-32942
Lower tertiary biostratigraphy and paleoecology of the Quilcene-Discovery Bay area, northeast Olympic Peninsula, Washington 22 p3621 N84-32943
Wave propagation in dense geophysical media
[AD-A143213] 22 p3623 N84-32955
X-ray spectroscopy of solids under pressure
[DE84-013790] 22 p3665 N84-33237
Nuclear magnetic resonance studies of ion motion in solid electrolytes
[DE84-013846] 22 p3665 N84-33238
Surface based brightness temperatures of sea ice in the Bering and Greenland Seas 23 p3773 N84-33918
Solar influence on terrestrial weather and global lightning patterns via cosmic ray modulations 24 p3927 N84-34855
Studies of midaltitude cyclone structure with SEASAT scanning multichannel microwave radiometer 24 p3930 N84-34877

WASHINGTON UNIV., ST. LOUIS, MO.
Structure of the Saint Francois Mountains and surrounding lead belt, south east Missouri: Inferences from thermal IR and other data sets
[E84-10027] 01 p0099 N84-10645
Structure and properties of polyethylene
[PB83-243931] 02 p0202 N84-11316
Copernicus observational searches for OH and H2O in diffuse clouds
[NASA-CR-170601] 02 p0305 N84-12004
Effect of blade structural parameters on helicopter vibrational characteristics
[AD-A134547] 07 p0951 N84-16174
Design of helicopter rotor blades for optimum dynamic characteristics
[NASA-CR-175380] 08 p1103 N84-17171
Small gravitationally elicited voltage transients in pea stems 09 p1352 N84-18836
The effects of spaceflight on the mineralization of rat incisor dentin 09 p1353 N84-18845
Participation of ethylene in gravitropism 09 p1359 N84-18878
Development and application of the p-version of the finite element method
[AD-A137059] 10 p1571 N84-20294
Non-destructive evaluation of composite materials using ultrasound
[NASA-CR-173416] 13 p1999 N84-22969
Impurity and defect interactions in GaAs
[AD-A139592] 14 p2243 N84-24465
Elemental advances of ultraheavy cosmic rays
[NASA-CR-173650] 17 p2781 N84-27658
The postprocessing technique in the finite element method the theory and experience
[AD-A140953] 18 p2925 N84-28551
A psychophysiological mapping of cognitive processes
[AD-A144557] 24 p3937 N84-34922

WASHINGTON UNIV. HOSPITAL, SEATTLE.
Effects of long-term low-level radiofrequency radiation exposure on rats. Volume 6: Hematological, serum chemistry, thyroxine, and protein electrophoresis evaluations
[AD-A141124] 19 p3063 N84-29434

WATERLOO UNIV. (ONTARIO).
Vibration of overhead transmissions lines 4 10 p1506 N84-19854
Vibrations and stability of mechanical systems, 3 21 p3419 N84-31681

WATKINS-JOHNSON CO., PALO ALTO, CALIF.
Design, construction and long life endurance testing of cathode assemblies for use in microwave high-power transmitting tubes
[NASA-CR-168112] 01 p0069 N84-10451

WAYNE STATE UNIV., DETROIT, MICH.
Electronic-relaxation processes in polyatomic molecules aut 01Lim, Edward C.
[DE83-008738] 01 p0144 N84-10945
Bending of transversally loaded orthotropic rectangular and sector plates 03 p0387 N84-12520
Analysis of some acoustics-jet flow interaction problems
[NASA-CR-175340] 07 p1069 N84-16944
Shot noise limited detection of OH using the technique of laser induced fluorescence
[NASA-CR-175433] 11 p1662 N84-20844
On the control of a linear stochastic system with finite horizon
[AD-P002949] 14 p2198 N84-24189
Thermal wave imaging for non-destructive evaluation of subsurface cracks in opaque materials 17 p2676 N84-27046
Free charged particle behavior in intense laser fields
[DE84-013700] 22 p3653 N84-33160
A study of the cross flow fan 23 p3688 N84-33372

WEAPONS SYSTEMS RESEARCH LAB., ADELAIDE (AUSTRALIA).
Colour testing of nitrocellulose propellants by a spectrophotometric method
[AD-A133091] 05 p0662 N84-14348
Wind tunnel tests on a tube-launched missile configuration with a deflectable nose control and a novel wrap-around fin stabiliser
[AD-A142082] 20 p3134 N84-29900
Static thrust augmentation of rocket motors by air entrainment
[AD-A143179] 22 p3543 N84-32430
Investigation into the internal aerodynamic design and associated errors in a fast descent ducted sonde for the measurement of atmospheric pressure and temperature (AMPARS phase 2)
[AD-A143189] 22 p3625 N84-32969
Autonomous surveillance in the visual spectral region 24 p3914 N84-34786

WEAPONS SYSTEMS RESEARCH LAB., SALISBURY (AUSTRALIA).
Large diameter optical slip-rings
[WSRL-0342-TM] 24 p3963 N84-35095

WEATHER SQUADRON (28TH). NEW YORK 09238. DETACHMENT 36.
Terminal forecast reference notebook for RAF Alconbury, England
[AD-A133835] 05 p0708 N84-14640

WEATHER WING (1ST), HICKAM AFB, HAWAII.
A study of Western North Pacific tropical storms and typhoons that intensify after recurvature
[AD-A138792] 13 p2017 N84-23075

WEATHER WING (5TH), LANGLEY AFB, VA.
World-wide sea-surface temperatures
[AD-A131892] 03 p0411 N84-12689

WEIDLINGER ASSOCIATES, MENLO PARK, CALIF.
Large-scale numerical analysis of three-dimensional seismic waves
[AD-A144610] 24 p3920 N84-34814

WEIDLINGER ASSOCIATES, NEW YORK, N.Y.
Theory of viscoplastic shells for dynamic response
[AD-A131272] 01 p0096 N84-10624
Yield surface for bars including warping restraint
[AD-A131393] 03 p0388 N84-12533
Submerged shock response of a linearly elastic shell of revolution containing internal structure. User's manual for the ELSHOK code
[AD-A131282] 03 p0389 N84-12534

WEISSMAN (DAVID E.), NORTHPORT, N.Y.
The dependence of the radar modulation transfer function on environmental conditions and wave parameters (A contribution to studies of radar backscattering from the sea surface). Revision
[AD-A133064] 05 p0670 N84-14408
A study of the dependence of radar backscatter cross section on wind speed and wave slope from the MARSEN experimental results (a contribution to studies of radar backscattering from the sea surface). Supplement to final report
[AD-A135041] 08 p1144 N84-17441

WEIZMANN INST. OF SCIENCE, REHOVOTH (ISRAEL).
GRIDPACK: Toward unification of general grid programming
[AD-A131692] 03 p0420 N84-12746
Multiquark exotics
[DE83-017958] 04 p0601 N84-13964
The physical mechanism of optical instabilities 14 p2232 N84-24389
Multigrid techniques: The 1984 guide with applications to fluid dynamics 16 p2491 N84-25981

WESLEYAN UNIV., MIDDLETOWN, CONN.
Scarp development in the Valles Marineris 13 p2086 N84-23515

WEST VIRGINIA UNIV., MORGANTOWN.
Switched-capacitor sampled-data networks with communication applications 08 p1142 N84-17429
Analysis of electrical accident prevention countermeasures
[PB84-102987] 06 p1207 N84-17869
Synthesis algorithm for minimal components in T-ulm networks
[AD-P002379] 14 p2196 N84-24170
Stall delay by boundary layer blowing and/or suction 21 p3323 N84-31086

WESTEC SERVICES, INC., SAN DIEGO, CALIF.
Liu fault diagnosis investigation
[AD-A137552] 11 p1706 N84-21119

WESTECH SYSTEMS, INC., PHOENIX, ARIZ.
Microgravity silicon zoning investigation
[NASA-CR-170919] 04 p0486 N84-13207

WESTERN ELECTRIC CO., INC., PRINCETON, N.J.
Resonant Frustrated Total Reflection (FTR) approach to optical bistability in semiconductors 14 p2234 N84-24405

WESTERN RESEARCH CORP., SAN DIEGO, CALIF.
Radiative collisional laser feasibility demonstration
[AD-A135793] 09 p1322 N84-18640

WESTFAELISCHE WILHELMS UNIV., MUENSTER (WEST GERMANY).
Physical and chemical investigations on real catalyst surfaces
[BMFT-FB-T-83-273] 13 p1958 N84-22729

WESTGATE RESEARCH CORP., LOS ANGELES, CALIF.
Chemistry and application of ozone and ozone/UV light for water reuse-2
[PB84-140557] 11 p1630 N84-20664

WESTINGHOUSE DEFENSE AND ELECTRONIC SYSTEMS CENTER, BALTIMORE, MD.
MM and T: Ceramic metal substrates for hybrid electronics
[AD-A132514] 04 p0505 N84-13313
Solid state transmitters for spaceborne radars 07 p0988 N84-16398
MM&T-Ceramic metal substrates for hybrid electronics: Handbook
[AD-A140689] 17 p2623 N84-26790
The use of computer ISA (Instruction Set Architectures) and software standards at Westinghouse Defense Electronics Center
[AD-P003552] 21 p3334 N84-31156
Westinghouse uses USAF-developed standards
[AD-P003572] 21 p3338 N84-31177
Analysis of directivity as a function of scan angle for planar arrays of radiating slots
[AD-P003503] 21 p3383 N84-31471
Conformal array analysis
[AD-P003504] 21 p3384 N84-31472

WESTINGHOUSE ELECTRIC CORP., ANNAPOLIS, MD.
Advanced motor-controller development
[AD-A140299] 16 p2484 N84-25934

WESTINGHOUSE ELECTRIC CORP., BALTIMORE, MD.
Tactical requirements impact on avionics/weapon system design 06 p0768 N84-15036
Development of scanning dipole array
[AD-P003405] 19 p3014 N84-29109

WESTINGHOUSE ELECTRIC CORP., LIMA, OHIO.
DC-link approach to constant-frequency aircraft power 01 p0011 N84-10068

WESTINGHOUSE ELECTRIC CORP., MADISON, PA.
Nonlinear bending and collapse analysis of a poked cylinder and other point-loaded cylinders
[DE84-001853] 07 p1017 N84-16595
Combination of earthquake direction effects
[DE84-001848] 07 p1034 N84-16709
Modular stellarator reactor: A Fusion power plant
[DE84-002268] 07 p1077 N84-17001

WESTINGHOUSE ELECTRIC CORP., PHILADELPHIA, PA.
Applications of through-flow theory 06 p0840 N84-15477
Trends in steam turbine design, testing and manufacturing 06 p0840 N84-15478

WESTINGHOUSE ELECTRIC CORP., PITTSBURGH, PA.
Hydrogen-evolution monitoring as a measure of steam-generator corrosion
[DE83-900677] 01 p0044 N84-10285
Effect of calcium hydroxide and carbonates on IGA and SCC of Alloy 600
[DE83-902229] 01 p0045 N84-10286
Research, development and demonstration of nickel-iron batteries for electric-vehicle propulsion
[DE83-015755] 01 p0073 N84-10479

Development and fabrication of an augmented power transistor
[NASA-CR-168262] 02 p0212 N84-11388
MSW (magnetostatic wave) variable time-delay techniques
[AD-A133770] 05 p0753 N84-14941
Recent advances in variable speed electrical generator systems for large wind turbines
[DE84-001833] 06 p0830 N84-15404
Techniques for sensor-based diagnosis
[AD-A133297] 06 p0896 N84-15814
Cell performance and life characteristics of solid oxide electrolyte fuel cells 11 p1739 N84-21343
Vapor deposition of stabilized zirconium oxide electrolyte and lanthanum chromite interconnection for multiple cell fabrication 11 p1739 N84-21346
Microstructure-property relationship for porous CaO stabilized ZrO2 support tubes 11 p1739 N84-21347
AC measurements on fuel cells and fuel cell components 11 p1741 N84-21362
Some non-electrochemical requirements for air electrode materials of high temperature solid electrolyte fuel cells 11 p1742 N84-21363
Process research of non-CZ silicon material
[NASA-CR-173759] 19 p3050 N84-29353
Wind turbine generator interaction with conventional diesel generators on Block Island, Rhode Island. Volume 1: Executive summary
[NASA-CR-168318] 19 p3050 N84-29357
Laser-assisted solar cell metallization processing
[NASA-CR-173875] 21 p3409 N84-31619
Wind turbine generator interaction with conventional diesel generators on Block Island, Rhode Island. Volume 2: Data analysis
[NASA-CR-168319] 21 p3433 N84-31783
Investigation of Doubly-Fed Machine in Variable Speed Applications
[DE84-012943] 22 p3618 N84-32928
Flat-plate solar array project process development area, process research of non-CZ silicon material
[NASA-CR-173926] 23 p3786 N84-34012
Process research of non-CZ silicon material
[NASA-CR-173954] 23 p3787 N84-34017
Large-area sheet task advanced dendritic web growth development
[NASA-CR-173958] 23 p3787 N84-34019
Progress research of non-Cz silicon material
[NASA-CR-173949] 23 p3787 N84-34021

WESTINGHOUSE ELECTRIC CORP., SUNNYVALE, CALIF.
Comparison of statistical energy analysis and finite element analysis vibration prediction with experimental results 10 p1516 N84-19923

WESTINGHOUSE HANFORD CO., RICHLAND, WASH.
Transmission of fast neutrons from the Li(d,xn) reaction through thick iron
[DE83-015975] 03 p0439 N84-12884
Feasibility of thermal NDE methods for Naval thermal spray coatings
[DE84-001463] 06 p0855 N84-15569
In-reactor creep behavior of selected ferritic alloys
[DE83-017005] 07 p0976 N84-16322
Fracture toughness of ferritic alloys irradiated in HFIR
[DE84-004594] 10 p1462 N84-19547

WESTINGHOUSE RESEARCH AND DEVELOPMENT CENTER, PITTSBURGH, PA.
Iron-air battery development
[DE83-015842] 01 p0073 N84-10482
Void-free epoxy castings for cryogenic insulators and seals
[DE83-017273] 04 p0529 N84-13479
High PRF HgBr laser life testing
[AD-A132660] 05 p0686 N84-14511
Double-injection, deep-impurity switch development
[NASA-CR-168335] 09 p1306 N84-18536
Measurement of heat pump processes induced by laser radiation
[NASA-CR-168324] 09 p1319 N84-18620
Thin film technology of high-critical-temperature superconducting electronics
[AD-A136722] 10 p1589 N84-20411
Fluorescence and electron energy loss cross sections in mercuric bromide
[AD-A137153] 11 p1629 N84-20657
High-efficiency dual-stroke compressor for heat pumps
[DE84-005813] 11 p1665 N84-20865
Laser assisted deposition 12 p1840 N84-21998
A parametric study of surface transformation hardening with high-power lasers
[AD-A140160] 16 p2497 N84-26023
Control of thermal stress in dendritic web growth 18 p2938 N84-28636
Laser-assisted solar cell metallization processing
[NASA-CR-173764] 19 p3050 N84-29354
Laser-assisted solar cell metallization processing
[NASA-CR-173763] 19 p3050 N84-29355
Superconducting electronic film structures
[AD-A141113] 19 p3110 N84-29760
Advanced electric heat pump dual-stroke compressor and system development
[DE84-007916] 20 p3185 N84-30239
Wide spectrum antireflective coating for laser fusion systems
[DE84-013211] 22 p3601 N84-32814
Investigation of the MBE growth of InSb and novel quantum well structures
[AD-A144151] 24 p3967 N84-35117

WESTLAND AIRCRAFT LTD., YEOVIL (ENGLAND).
The interpretation of design requirements for multi-market helicopters 16 p2435 N84-25617

WESTLAND HELICOPTERS LTD., YEOVIL (ENGLAND).
An empirical appraisal of defects in composites 01 p0034 N84-10211
The influence of aeroelastic stability requirements on helicopter design 02 p0171 N84-11127

WESTMINSTER COLL., FULTON, MO.
Optical constant determination of thin films condensed on transmitting and reflecting substrates
[AD-A140845] 17 p2768 N84-27578

WESTON OBSERVATORY, MASS.
Investigation of magnetic field measurements
[AD-A130422] 01 p0138 N84-10904
Geokinetic effects on motion sensitive instrumentation, systems and facilities
[AD-A142682] 20 p3241 N84-30575

WESTON (ROY F.), INC., WEST CHESTER, PA.
Installation restoration general environmental technology development. Task 3: Guidelines for in-place closure of dry lagoons. Volume 2: Evaluation of in-place closure technologies
[AD-A140655] 17 p2724 N84-27338
Operation and maintenance of selected ozone and ultraviolet disinfection systems
[PB84-180124] 20 p3265 N84-30719

WHEATON COLL., NORTON, MASS.
The ionization structure of planetary nebulae. 4: NGC 6853
[NASA-CR-173240] 07 p1090 N84-17086
The ionization structure of planetary nebulae V NGC 3242
[NASA-CR-173914] 22 p3679 N84-33322

WHIDDON (WILLIAM I.) AND ASSOCIATES, INC., BETHESDA, MD.
A laboratory approach to technology transfer: The passive solar cooling system concept example 16 p2516 N84-26152

WHITE SANDS MISSILE RANGE, N.MEX.
Application of the principal component method to trajectory estimation
[AD-P002951] 14 p2199 N84-24191
Evaluation of optical data collection instrumentation in the desert environment
[AD-P003847] 24 p3939 N84-34934

WHITMORE ENTERPRISES, SAN ANTONIO, TEX.
Lower body graduated negative pressure system
[NASA-CR-171717] 03 p0417 N84-12725

WHITTIER COLL., CALIF.
Glacial and periglacial landforms in Denmark: Scandinavian analogs for Martian features 13 p2085 N84-23507
Curvilinear ground on Mars: The search for terrestrial analogs 13 p2085 N84-23508
Temporal and spatial distribution of exhumed topography 13 p2087 N84-23517

WICAT SYSTEMS, INC., OREM, UTAH.
Instructional systems development model for interactive videodisc
[AD-A136737] 10 p1498 N84-19790
Interactive videodisc design and production, workshop guide
[AD-A136830] 10 p1498 N84-19791

WICHITA STATE UNIV., KANS.
Low aspect ratio wing/body vortex interaction at large angles of pitch and yaw 02 p0173 N84-11140
An experimental investigation of separated three dimensional flow on general aviation twin-engine aircraft 03 p0319 N84-12087
A study of wing-body aerodynamic interference of a light twin aircraft utilizing a panel method potential flow program 03 p0327 N84-12134
Analytical design of a liquid hydrogen fueled turbofan-ramjet engine for flight Mach numbers zero to five 03 p0336 N84-12187
Fourier shape analysis: A multivariate pattern recognition approach
[AD-P003118] 16 p2532 N84-26259
Experimental studies of flow separation of three airfoils at low speeds
[NASA-CR-3530] 19 p2956 N84-28736

WIEN UNIV. (AUSTRIA).
A microprocessor-based control system for the Vienna PDS microdensitometer 18 p2841 N84-28037

WIGGIN ALLOYS LTD., HEREFORD (ENGLAND).
Oxide dispersion strengthened alloys 23 p3703 N84-33472

WILCOXON RESEARCH, ROCKVILLE, MD.
Performance evaluation of sensors
[AD-P002675] 11 p1657 N84-20812

WILLIAM BEAUMONT ARMY HOSPITAL, EL PASO, TEX.
The effects of REFORGER (return of forces to Germany) exercise participation on soldiers' attitudes
[AD-P003260] 18 p2906 N84-28427

WILLIAMS COLL., WILLIAMSTOWN, MASS.
Atomic hydrogen maser investigations of hydrogen atom interactions from 4 K to 12 K
[AD-A134917] 08 p1165 N84-17582
Near millimeter wave action in n-GaAs
[AD-A138602] 13 p2042 N84-23252

WISCONSIN HUMAN INFORMATION PROCESSING PROGRAM, MADISON.
Risk and distributional inequality
[AD-A140373] 16 p2565 N84-26458

WISCONSIN UNIV., MADISON.
Nonexistence of a shock layer in gas dynamics with a nonconvex equation of state
[AD-A129169] 01 p0078 N84-10506
Atlas of Northern Hemisphere extratropical cyclone activity, 1958 - 1977
[PB83-225722] 01 p0110 N84-10712
Smooth solutions to a quasi-linear system of diffusion equations for a certain population model
[AD-A129180] 01 p0128 N84-10839
A note on the geometry of Kullback-Leibler information numbers
[AD-A129170] 01 p0129 N84-10840
Block iterative methods for elliptic finite element equations
[AD-A129150] 01 p0129 N84-10841
A generalization of Denjoy's theorem on diffeomorphisms of the circle
[AD-A130575] 01 p0130 N84-10848
On the superlinear Ambrosetti-Prodi problem
[AD-A130574] 01 p0130 N84-10849
Implications of analytical investigations about the semiconductor equations on device modeling programs
[AD-A130549] 01 p0130 N84-10851
Fingers in a Hele-Shaw cell with surface tension
[AD-A130548] 01 p0130 N84-10852
Multiple critical points of invariant functionals and applications
[AD-A130544] 01 p0130 N84-10853
Directionally efficient robust estimators of location via exponential embedding
[AD-A130525] 01 p0130 N84-10854
On complex rational approximation by interpolation at preselected nodes
[AD-A130526] 01 p0131 N84-10855
Asymptotic behaviors of the solution of an elliptic equation with penalty terms
[AD-A130473] 01 p0131 N84-10858
A local existence and uniqueness theorem for a K-BKZ-fluid
[AD-A130503] 01 p0131 N84-10861
Constrained nonlinear least squares
[AD-A130502] 01 p0132 N84-10862
Granular jumps down an inclined plane
[AD-A130501] 01 p0132 N84-10863
Evaluation of controlling low altitude aerial photography using high altitude aerotriangulation 02 p0234 N84-11539
A candidate hypothesis for the generation of quasi-biennial variations in sea level pressure 02 p0252 N84-11652
Excited-state processes of relevance to photoelectrochemistry
[AD-A131300] 02 p0298 N84-11957
Photoluminescent properties of n-GaAs electrodes: Applications of the dead-layer model to photoelectrochemical cells
[AD-A131301] 02 p0298 N84-11958
Some theoretical studies of the interstellar medium 02 p0306 N84-12006
Solidification of aluminum and aluminum alloys at high levels of undercooling 03 p0351 N84-12286
Phytochrome from green plants: Assay, purification, and characterization
[DE83-017447] 03 p0414 N84-12710
Drift wave studies in a linear multiple mirror
[DE83-016881] 03 p0449 N84-12951
The winds and coronae of early-type stars 03 p0469 N84-13086
Analytical investigation of meso-scale boundary layer forced by surface temperature variation in a stratified sheared atmosphere 04 p0562 N84-13702
Polarization effects in the luminescence of cadmium selenide electrodes
[AD-A133951] 05 p0647 N84-14253

Droplet decomposition in a reactive atmosphere: Complete responses for large activation energies
[AD-A132840] 05 p0650 N84-14273
Note on evaporation in capillaries
[AD-A132850] 05 p0650 N84-14275
A free-boundary problem arising from a galvanizing process
[AD-A132853] 05 p0655 N84-14304
Some remarks on the creeping flow of the second grade fluid
[AD-A132806] 05 p0681 N84-14473
On a viscometric flow of a simple fluid
[AD-A132852] 05 p0681 N84-14476
The interfaces of one-dimensional flows in porous media
[AD-A132862] 05 p0681 N84-14478
Solving elliptic-parabolic problems
[AD-A133726] 05 p0734 N84-14822
Initial-boundary value problems for linear hyperbolic systems
[AD-A132644] 05 p0735 N84-14829
Numerical analysis of boundary value problem of elliptic type by means penalty and the finite difference and its application to free boundary problem
[AD-A132805] 05 p0736 N84-14834
The 1-dimensional structured phase transformations under prescribed loads
[AD-A132807] 05 p0736 N84-14835
Central configurations of the N-body problem
[AD-A132820] 05 p0736 N84-14836
Stabilization of solutions for a class of parabolic integro-differential equations
[AD-A132821] 05 p0736 N84-14837
Numerical analysis of a Stefan problem
[AD-A132823] 05 p0737 N84-14838
A collocation method for computing eigenvalues and eigenfunctions of the Laplacian
[AD-A132827] 05 p0737 N84-14839
Cauchy flux and sets of finite perimeter
[AD-A132834] 05 p0737 N84-14840
Implementation of a subgradient projection algorithm II
[AD-A132835] 05 p0737 N84-14841
A coordinate transformation for the porous media equation that renders the free-boundary stationary
[AD-A132839] 05 p0737 N84-14842
A 3-component system of competition and diffusion
[AD-A132860] 05 p0738 N84-14844
Directed graphs and traveling waves
[AD-A132861] 05 p0738 N84-14845
More results on the convergence of iterative methods for the symmetric linear complementarity problem
[AD-A132863] 05 p0738 N84-14846
On the use of marginal likelihood in time series model estimation
[AD-A132828] 05 p0740 N84-14862
A rapid convergence method for a singular perturbation problem
[AD-A132837] 05 p0740 N84-14863
Measures of nonlinearity for segmented regression models
[AD-A132838] 05 p0740 N84-14864
An efficient generator of uniformly distributed random deviates between zero and one
[AD-A132851] 05 p0741 N84-14865
Collisional excitation and radiation of atoms and molecules
[AD-A134093] 05 p0743 N84-14881
Rotational energy transfer in highly vibrationally excited hydrogen fluoride and deuterium fluoride
[AD-A133102] 05 p0745 N84-14892
Microscopic study of semiconductor heterojunctions
05 p0757 N84-14962
Keynesian chaos
[AD-A132836] 05 p0760 N84-14987
Visible and infrared continuum spectropolarimetric observations of ten OB supergiant and O emission line stars 05 p0762 N84-14995
Laser optical pumping of sodium and lithium atom beams 06 p0849 N84-15534
Investigation of static and dynamic fracture of orthotropic media by photomechanics 06 p0863 N84-15625
Investigation of antarctic crust and upper mantle using MAGSAT and other geophysical data
[E84-10055] 06 p0864 N84-15627
A comparison of NMC models (1977) on precipitation forecasts for east coast cyclogenesis
06 p0879 N84-15720
Possible tidal modulation of the Indian monsoon onset
06 p0879 N84-15721
Bone blood flow measured by (41)Ar clearance formed by (44)Ca(n,(-)) (41)Ar
[DE83-017600] 06 p0886 N84-15761
Experimental designs for quantal response models
[AD-A133416] 06 p0901 N84-15851
Diffraction techniques
[AD-A133254] 06 p0914 N84-15944
State-to-state unimolecular reaction dynamics
[DE84-003009] 06 p0916 N84-15952
Minimal drag for wings with prescribed lift, roll moment and yaw moment
[AD-A134572] 07 p0948 N84-16152
The Froude number for solitary waves
[AD-A134548] 07 p1002 N84-16498
On the model equations which describe nonlinear wave motions in a rotating fluid
[AD-A134556] 07 p1002 N84-16499
Remarks on the stability of viscometric flow
[AD-A134571] 07 p1002 N84-16500
Some efficient random number generators for micro computers
[AD-A134558] 07 p1053 N84-16815
Some experiences with gasp-like microcomputer simulation languages in FORTRAN, Pascal, and Ada
[AD-A134543] 07 p1055 N84-16832
Homogenization for a Volterra equation
[AD-A134427] 07 p1061 N84-16882
Morse type index theory for flows and periodic solutions for Hamiltonian equations
[AD-A134431] 07 p1061 N84-16883
Estimation of posterior probabilities using multivariate smoothing splines and generalized cross-validation
[AD-A134518] 07 p1062 N84-16884
An accurate theory and simple fourth order governing equations for orthotropic and composite cylindrical shells
[AD-A134532] 07 p1062 N84-16886
A parametric bootstrap procedure for testing separate families of hypotheses
[AD-A134533] 07 p1062 N84-16887
The Birkhoff-Lewis fixed point theorem and a conjecture of V. I. Arnold
[AD-A134534] 07 p1062 N84-16888
On perturbations of stability inequalities with an application to finite difference approximations of ODE's
[AD-A134535] 07 p1062 N84-16889
Note on subharmonic solutions of a Hamiltonian vector field
[AD-A134537] 07 p1062 N84-16890
Diffusion on viscous fluids, existence and asymptotic properties of solutions
[AD-A134538] 07 p1063 N84-16891
A variational approach to superlinear elliptic problems
[AD-A134541] 07 p1063 N84-16892
A characterization of an element of best simultaneous approximation
[AD-A134542] 07 p1063 N84-16893
The number of solutions of an equation from catalysis
[AD-A134555] 07 p1063 N84-16896
Periodic solutions of Lagrangian systems on a compact manifold
[AD-A134557] 07 p1063 N84-16897
Sufficiency of exact penalty minimization
[AD-A134559] 07 p1063 N84-16898
Efficient model-based sequential designs for sensitivity experiments
[AD-A134573] 07 p1064 N84-16899
Experimental study of high beta toroidal plasmas
[DE84-004869] 07 p1078 N84-17006
Species-specific densities of states of ga and as in the chemisorption of H2O on GaAs(110)
[AD-A134344] 07 p1080 N84-17022
Species-specific densities of states of ga and as in the chemisorption of oxygen on GaAs(110)
[AD-A134416] 07 p1080 N84-17024
Optical studies of dynamical process in disordered materials
[DE84-002048] 07 p1083 N84-17042
Studies of silicon refractory metal interfaces: Photoemission study of interface formation and compound nucleation
[AD-A135340] 08 p1131 N84-17358
Correlation of fracture toughness with tensile properties for irradiated 20% cold-worked 316 stainless steel
[DE84-003954] 08 p1135 N84-17379
The time development of a blast wave with shock heated electrons
[NASA-CR-175364] 08 p1156 N84-17529
A statistical-dynamical study of the large-scale intraseasonal variability of the northern hemisphere winter circulation 08 p1184 N84-17716
Enhancement of SEASAT wind-stress measurements using data from GOES
[PB84-111244] 08 p1192 N84-17773
Control theory of hyperbolic systems
[AD-A135146] 08 p1218 N84-17952
Morphology and movements of polarization features on Venus
[NASA-CR-166464] 08 p1245 N84-18137
Limits on diffuse X-ray emission from M101
[NASA-CR-170978] 08 p1246 N84-18147
Design criteria and eigensequence plots for satellite computed tomography
[NASA-CR-172787] 09 p1267 N84-18276
Influence of surface tension and surface shear on final coat thickness in jet-stripped continuous coating of sheet materials
[AD-A136402] 09 p1314 N84-18586
Wideband monolithic microwave amplifier study
[AD-A136424] 09 p1318 N84-18606
Combined tension-torsion of a cylindrical mixture of an elastic solid and fluid
[AD-A136351] 09 p1331 N84-18689
A high-order test for optimality of bang-bang controls
[AD-A136375] 09 p1371 N84-18954
A singular perturbation analysis of the fundamental semiconductor device equations
[AD-A136322] 09 p1373 N84-18964
Interval methods for fixed-point problems
[AD-A136323] 09 p1373 N84-18965
Structure and stability of finite dimensional approximations for functional differential equations
[AD-A136324] 09 p1373 N84-18966
A singular free boundary problem
[AD-A136325] 09 p1373 N84-18967
Applications of natural constraints in critical point theory to periodic solutions of natural Hamiltonian systems
[AD-A136348] 09 p1373 N84-18968
Finite difference methods for the incompressible Navier-Stokes equations: A survey
[AD-A136353] 09 p1374 N84-18969
Global existence and asymptotics in one-dimensional nonlinear viscoelasticity
[AD-A136367] 09 p1374 N84-18970
Using interval methods for the numerical solution of ODE'S (Ordinary Differential Equations)
[AD-A136373] 09 p1374 N84-18972
Simplified confidence intervals for an awkward nonlinear model
[AD-A136403] 09 p1374 N84-18975
Applications of natural constraints in critical point theory to boundary value problems on domains with rotation symmetry
[AD-A136404] 09 p1374 N84-18976
Linear complementarity problems solvable by an efficient polynomially bounded pivoting algorithm
[AD-A136405] 09 p1374 N84-18977
Initial value problems for viscoelastic liquids
[AD-A136425] 09 p1375 N84-18980
Numerical methods for stiff two-point boundary value problems
[AD-A136427] 09 p1375 N84-18981
A unified approach to ARMA (autoregressive-moving average) model identification and preliminary estimation
[AD-A136426] 09 p1381 N84-19020
On ARMA (autoregressive moving average) representations for white noise in a Markovian environment
[AD-A136354] 09 p1386 N84-19054
The mathematical structure of elementary particles
[AD-A136295] 09 p1387 N84-19060
ICRF waveguide couplers
[DE84-004042] 09 p1392 N84-19092
A nonlinear eigenvalue problem modelling the avalanche effect in semiconductor diodes
[AD-A136368] 09 p1394 N84-19106
The Cauchy and Born hypotheses for crystals
[AD-A136374] 09 p1395 N84-19107
Multi-computer parallel arrays, pipeline arrays and pyramids 09 p1400 N84-19147
Analytical studies of turbulent flow fields
[AD-A137008] 10 p1493 N84-19761
The special effort processing of FGGE data
[NASA-CR-175214] 10 p1524 N84-19986
Stable convex sets of matrices
[AD-A136659] 10 p1574 N84-20317
Properties of multiphase polyurethane systems
[AD-A137542] 11 p1637 N84-20703
Computation of current-voltage-characteristics in a semiconductor device using arc-length continuation
[AD-A137919] 11 p1647 N84-20770
On the role of the baroclinic structure in extratropical cyclone development: A case study
11 p1684 N84-20987
A numerical model of interactions between a polar ice stream, the ocean and the solid earth: Application to ice stream E, West Antarctica 11 p1689 N84-21013
Smoothing, regularization and ill-posed inverse problems; robust and convex estimation of functions of several variables
[AD-A137810] 11 p1714 N84-21176
Numerical schemes for a model for nonlinear dispersive waves
[NASA-CR-175416] 11 p1714 N84-21179
Randomized estimators for time integrals
[AD-A137921] 11 p1714 N84-21180
New exact solutions in non-linear elasticity
[AD-A137928] 11 p1715 N84-21181

The autocorrelation function of seasonal ARMA models
[AD-A137929] 11 p1715 N84-21182
A bivariate C-2 Clough-Tocher scheme
[AD-A137930] 11 p1715 N84-21183
The Dirichlet-Neumann boundary control problem associated with Maxwell's equations in a cylindrical region
[AD-A137937] 11 p1715 N84-21184
Comparison of the dichotomous and polychotomous quantal response models
[AD-A137938] 11 p1715 N84-21185
Normal modes of a LaGrangian system constrained in potential well
[AD-A137948] 11 p1715 N84-21187
Simple computable bounds for solutions of linear complementarity problems and linear programs
[AD-A137949] 11 p1715 N84-21188
A topological version of a theorem of Mather on twist maps
[AD-A137950] 11 p1716 N84-21189
Minimax methods for indefinite functionals
[AD-A137953] 11 p1716 N84-21190
On the logical development of statistical models
[AD-A137936] 11 p1717 N84-21203
Differential games, optimal control and directional derivatives of viscosity solutions of Bellman's and Isaacs' equations
[AD-A137939] 11 p1718 N84-21209
Properties of polyurethane anionomers: Ionization via bimolecular nucleophilic displacement of the urethane hydrogen
[AD-A137988] 12 p1801 N84-21742
Two-fluid couette flow between concentric cylinders
[AD-A137969] 12 p1815 N84-21834
Use of VAS multispectral data for sea surface temperature determination 12 p1836 N84-21967
Some considerations in estimating data transformations
[AD-A137960] 12 p1893 N84-22329
A boundary modulus of continuity for a class of singular parabolic equations
[AD-A138019] 12 p1893 N84-22331
Developments in the theory of nonlinear first-order partial differential equations
[AD-A138020] 12 p1893 N84-22332
On the asymptotics of maximum likelihood and related estimators based on type 2 censored data
[AD-A137958] 12 p1896 N84-22348
Gas filled dynamics for laser driven fusion reactors
[DE84-005181] 12 p1910 N84-22444
Neoclassical current studies in high beta plasmas
[DE84-005052] 12 p1910 N84-22445
Numerical methods for transient semiconductor device modelling
[AD-A137970] 12 p1913 N84-22462
A finite difference study of the stretching and break-up of filaments of polymer solutions
[AD-A139258] 14 p2130 N84-23767
Bubbles rising in a tube and jets falling from a nozzle
[AD-A139266] 14 p2145 N84-23858
Hydrodynamic interactions between particles in low-Reynolds-number flow: A modular approach
[AD-A139269] 14 p2146 N84-23859
Hyperpyrexia and head trauma
[AD-A139420] 14 p2185 N84-24090
Instability of the flow of two immiscible liquids with different viscosities in a pipe
[AD-P002935] 14 p2196 N84-24175
Flow past a flexible membrane
[AD-P002938] 14 p2197 N84-24178
Application of symbolic computation to the analysis of mechanical systems, including robot arms
[AD-P002940] 14 p2197 N84-24180
An introduction to the scientific computing language PASCAL-SC (PASCAL for Scientific Computation)
[AD-A139316] 14 p2205 N84-24235
Remarks on the Ambrosetti-Prodi problem
[AD-A139237] 14 p2212 N84-24282
The numerical calculation of traveling wave solutions of nonlinear parabolic equations on the line
[AD-A139238] 14 p2212 N84-24283
Multivariate perpendicular interpolation
[AD-A139254] 14 p2212 N84-24284
On the Taylor approximation of control systems
[AD-A139255] 14 p2212 N84-24285
On a theorem of Szegoe on univalent convex maps of the unit circle
[AD-A139256] 14 p2212 N84-24286
The Dirichlet problem for harmonic maps from the disk into the Euclidean n-sphere
[AD-A139259] 14 p2213 N84-24287
Local asymptotic approximation of nonlinear control systems
[AD-A139260] 14 p2213 N84-24288
Uniqueness of connecting orbits in the equation y(3) = y2 - 1
[AD-A139261] 14 p2213 N84-24289
On the equidecomposability of a regular triangle and a square of equal areas
[AD-A139270] 14 p2213 N84-24290
Exact boundary conditions at an artificial boundary for partial differential equations in cylinders
[AD-A139310] 14 p2213 N84-24292
On the almost periodicity of the solutions of an integrodifferential equation
[AD-A139312] 14 p2213 N84-24293
On small period, large amplitude normal modes of natural Hamiltonian systems
[AD-A139314] 14 p2213 N84-24294
Estimating time averages via randomly-spaced observations
[AD-A139315] 14 p2214 N84-24295
The linear quadratic optimal control problem for infinite dimensional systems with unbounded input and output operators
[AD-A139333] 14 p2214 N84-24296
Bias in nonlinear regression
[AD-A139239] 14 p2218 N84-24308
Experimental design: Review and comment
[AD-A139268] 14 p2218 N84-24309
Residuals in nonlinear regression
[AD-A139309] 14 p2218 N84-24311
Bootstrap inference with stratified samples
[AD-A139313] 14 p2218 N84-24312
Bifurcation and multiplicity results for nonlinear elliptic problems involving critical sobolev exponents
[AD-A139332] 14 p2219 N84-24315
Mechanistic studies related to the metal catalyzed reduction of carbon monoxide to hydrocarbons
[DE84-007963] 15 p2288 N84-24729
Dynamic response of rotating beams with nonconstant angular velocity 16 p2503 N84-26067
A correction factor to f-chart predictions of active solar fraction in active-passive heating systems
16 p2513 N84-26127
Remote measurements of tropospheric aerosol scattering properties by an airborne high spectral resolution lidar 16 p2520 N84-26179
Determination of nebular temperature and density from radio recombination lines 16 p2578 N84-26541
Limits on soft X-ray flux from distant emission regions
[NASA-CR-173591] 16 p2582 N84-26558
Design of mechanical joints in composites
17 p2674 N84-27038
The influence of sleep state on ventilatory control in humans 17 p2746 N84-27435
Collisional energy transfer in highly vibrationally excited molecules
[AD-A140772] 17 p2765 N84-27558
The 10 plasma torus: Its structure and sulfur emission spectra 17 p2776 N84-27626
An improved logarithmic amplifier circuit for PDS microdensitometers 18 p2841 N84-28034
The VAX/VMS device driver and user operation program for the Midwestern Astronomical Data Reduction and Analysis Facility PDS microdensitometer
18 p2841 N84-28036
The design of manually operated controls for a six-degree-of-freedom groundborne walking vehicle: Control strategies and stereotypes
[AD-P003273] 18 p2907 N84-28438
Distributed parameter control techniques with application to adaptive control of certain flutter phenomena, November 1, 1982 to October 31, 1983
[AD-A140943] 18 p2923 N84-28540
Control theory of partial differential equations
[AD-A140945] 18 p2924 N84-28541
Edge waves by boundary collocation
[AD-A137959] 18 p2924 N84-28545
Inertial confinement fusion reactor studies
[DE84-008675] 18 p2933 N84-28602
Two-step sequential reactions for large activation energies-revisited
[AD-A141750] 19 p2988 N84-28934
Hyperbolicity and change of type in the flow of viscoelastic fluids
[AD-A141508] 19 p3023 N84-29172
Remarks on the flow between two parallel rotating plates
[AD-A141582] 19 p3023 N84-29174
Note on the displacement effect in a spinning fluid
[AD-A141599] 19 p3024 N84-29175
Wave-less free-surface pressure distributions
[AD-A141630] 19 p3024 N84-29176
Dynamic changes of phase in a van der Waals fluid
[AD-A141708] 19 p3024 N84-29178
Stochastic models for common failures of components
[AD-A141490] 19 p3033 N84-29237
Zinc selenide photoelectrodes. Efficient radiative recombination in a stable photoelectrochemical cell
[AD-A141869] 19 p3051 N84-29360
On pairs of positive solutions for a class of semilinear elliptic problems
[AD-A141504] 19 p3084 N84-29574
Gwilym Jenkins: Experimental design and time series
[AD-A141506] 19 p3084 N84-29575
The cauchy problem in one-dimensional nonlinear viscoelasticity
[AD-A141507] 19 p3084 N84-29576
A note on equality in Anderson's theorem
[AD-A141509] 19 p3084 N84-29577
A maximum principle for an elliptic system and applications to semilinear problems
[AD-A141600] 19 p3085 N84-29581
L infinity stability of an exponentially decreasing solution of the problem Delta u + f(x,u) = o in r(n)
[AD-A141601] 19 p3085 N84-29582
A geometric proof of total positivity for spline interpolation
[AD-A141606] 19 p3085 N84-29583
Global existence of classical solutions to the equations of motion for materials with fading memory
[AD-A141607] 19 p3085 N84-29584
A free boundary problem for degenerate quasilinear parabolic equations
[AD-A141608] 19 p3085 N84-29585
On the range of a regenerative sequence
[AD-A141652] 19 p3086 N84-29586
A direct approach to the Villarceau circles of a torus
[AD-A141653] 19 p3086 N84-29587
Closed geodesics for the Jacobi metric and periodic solutions of prescribed energy of natural Hamiltonian systems
[AD-A141654] 19 p3086 N84-29588
Multiple limit point bifurcation for Fredholm operators of non-zero index
[AD-A141660] 19 p3086 N84-29589
Use of simultaneous autoregressive models in balanced incomplete block and lattice square designs
[AD-A141661] 19 p3086 N84-29590
A remark on semilinear perturbations of abstract parabolic equations
[AD-A141695] 19 p3087 N84-29593
Simple bounds for solutions of monotone complementarity problems and convex programs
[AD-A141699] 19 p3087 N84-29594
On a class of quasilinear partial integrodifferential equations with singular kernels
[AD-A141700] 19 p3087 N84-29595
Morse theory for symmetric functionals on the sphere and an application to a bifurcation problem
[AD-A141709] 19 p3087 N84-29596
The effect of aggregation in nonlinear regression
[AD-A141728] 19 p3087 N84-29597
Analysis of an integration method for rapidly oscillating integrands
[AD-A141731] 19 p3087 N84-29598
Local linear independence of the translates of a box spline
[AD-A141749] 19 p3087 N84-29599
Jackknife and bootstrap inference in regression and a class of representations for the LSE
[AD-A141505] 19 p3093 N84-29641
Estimation of the generalized extreme-value distribution by the method of probability weighted moments
[AD-A141696] 19 p3093 N84-29642
Experimental study of impurity production in the Tokapole II Tokamak
[DE84-009659] 19 p3109 N84-29754
Intermediate-range grid model and user's guide for atmospheric sulfur dioxide and sulfate concentrations and depositions: Wisconsin Power Plant Impact Study
[PB84-189257] 20 p3238 N84-30558
Control theory of partial differential equations
[AD-A142636] 20 p3279 N84-30812
Experimental observation of the shear Alfven resonance in a Tokamak
[DE84-012993] 20 p3306 N84-30998
Oscillatory instability in a 2-fluid Benard problem
[AD-A142792] 21 p3399 N84-31565
Numerical solution of viscoplastic flow problems by augmented lagrangians
[AD-A142793] 21 p3400 N84-31566
Hopf bifurcation in two-component flow
[AD-A142844] 21 p3400 N84-31568
Global solutions for the one-dimensional equations of a viscous reactive gas
[AD-A142931] 21 p3400 N84-31569
Lidar observations and modeling of atmospheric mixed layer entrainment processes 21 p3437 N84-31807
Applications of the AVE-SESAME data sets to mesoscale studies
[NASA-CR-3819] 21 p3446 N84-31866

Asymptotic estimates for resolvents of some nonintegrable Volterra kernels
[AD-A141662] 21 p3471 N84-31999
Directional convexity and finite optimality conditions
[AD-A141698] 21 p3471 N84-32000
Bayesian models for response surfaces, 2: Estimating the response surface
[AD-A142768] 21 p3471 N84-32001
Finite dimensional compensators for infinite dimensional systems with unbounded control action
[AD-A142808] 21 p3472 N84-32002
Bayesian models for response surfaces. 1: The equivalence of several models and their relationship to smoothing splines
[AD-A142843] 21 p3472 N84-32003
On the controlled approximation order from certain spaces of smooth bivariate splines
[AD-A142868] 21 p3472 N84-32004
Statistical inference for reliability from stress strength relationships: The normal case
[AD-A142883] 21 p3472 N84-32005
Convergence of bivariate cardinal interpolation
[AD-A142894] 21 p3472 N84-32006
Weighted inequalities and degenerate elliptic partial differential equations
[AD-A142895] 21 p3472 N84-32007
Efficient sequential designs with binary data
[AD-A142904] 21 p3473 N84-32008
Globally convergent procedures for solving nonlinear minimization problems
[AD-A142905] 21 p3473 N84-32009
Spline approximation for retarded systems and the Ricatti equation
[AD-A142963] 21 p3473 N84-32010
The arithmetic of differentiation
[AD-A142964] 21 p3473 N84-32011
Assessment of local influence
[AD-A143002] 21 p3473 N84-32014
Optically pumped polarized alkali atomic beams and targets
[DE84-012389] 21 p3495 N84-32147
A study of the drawing process for optical fibers
[AD-A142930] 21 p3498 N84-32171
Disruptive instabilities in a poloidal divertor tokamak
[DE84-013054] 21 p3501 N84-32192
Second harmonic electron cyclotron emission studies of Tokapole-2 plasmas
[DE84-013103] 21 p3502 N84-32193
Equitable assignment rules
[AD-A142809] 21 p3515 N84-32268
Properties of UV-cured polyurethane acrylates: Effect of polyol type and molecular weight
[AD-A143176] 22 p3559 N84-32537
Properties of UV-curable polyurethane acrylates: Effect of reactive diluent
[AD-A143241] 22 p3559 N84-32540
Petrography and ultrasonic wave velocity in the Admire Formation (Permian), Kansas 22 p3621 N84-32945
The climatic impact of volcanic activity
22 p3624 N84-32963
Dynamical simulation of cloudy boundary layer flow during cold air outbreaks 22 p3624 N84-32964
Local electronic properties of semiconductor surfaces and interfaces
[DE84-013606] 22 p3666 N84-33239
Ultraviolet interstellar absorption toward stars in the small Magellanic cloud 22 p3677 N84-33313
Solidification of highly undercooled liquid droplets
[AD-A143692] 23 p3714 N84-33543
Numerical solutions for cavitating flow of a fluid with surface tension past a curved obstacle
[AD-A144695] 24 p3901 N84-34704
Studies of lightning data in conjunction with geostationary satellite data 24 p3928 N84-34861
Regional scale simulation of atmospheric structure using VAS data 24 p3929 N84-34869
Mesoscale ageostrophic circulations associated with baroclinic jet streaks 24 p3930 N84-34875
Applications of the AVE-Sesame data sets to mesoscale studies 24 p3931 N84-34886
Evaluation and development of new VAS remote sensing algorithms 24 p3933 N84-34894
A new method of evaluating normal and t-tail areas
[AD-P003842] 24 p3939 N84-34930
A study of some multi-grid ideas
[AD-A144465] 24 p3951 N84-35021
Iterative methods for elliptic problems and the discovery of Q
[AD-A144483] 24 p3952 N84-35022
Triangular extrapolation
[AD-A144660] 24 p3952 N84-35025
Morse theory for flows in presence of a symmetry group
[AD-A144661] 24 p3952 N84-35026
The generic local time-optimal stabilizing controls in dimension 3
[AD-A144662] 24 p3952 N84-35027
Multivariate scattered data derivative generation by functional minimization
[AD-A144663] 24 p3952 N84-35028
Non-existence of global solutions of partial of f(u sub t) with respect to t in two and three space dimensions
[AD-A144692] 24 p3952 N84-35030
Rising bubbles in a two-dimensional tube with surface tension
[AD-A144693] 24 p3953 N84-35031
Convergence of difference approximations of quasilinear evolution equations
[AD-A144694] 24 p3953 N84-35032
Cloud and ice in the planetary scale circulation and in climate
[NASA-CR-173992] 24 p3990 N84-35244

WISCONSIN UNIV., MILWAUKEE.
Topics in gravitation and gauge fields
02 p0247 N84-11616
Gravitational perturbation of the hydrogen spectrum
02 p0251 N84-11646
Numerical study of a separating and reattaching flow by using Reynolds-stress tubulence closure
[NASA-CR-166547] 08 p1097 N84-17133
Lattice statistics
[AD-A136588] 09 p1382 N84-19025
Diagnostics of rainfall anomalies in the Nordeste during the global weather experiment
[SAPR-1] 16 p2529 N84-26235

WISCONSON UNIV., STEVENS POINT.
Training decision-makers to be creative: A management process model
[AD-P003347] 18 p2912 N84-28466

WISSENSCHAFTSZENTRUM, BERLIN (WEST GERMANY).
Increase of worker autonomy at the industrial work place as shown in three humanization projects in Sweden, in Great Britain and in the USA
[BMFT-FB-HA-83-031] 16 p2564 N84-26453

WITWATERSRAND UNIV., JOHANNESBURG (SOUTH AFRICA).
Biaxial fatigue, a review of the literature
[FRP-82/17] 04 p0498 N84-13266
The measurement of surface texture and its correlation with function 06 p0814 N84-15299
Surface and near-surface analysis of diamond by RBS
06 p0814 N84-15302
Metal formability in bulk deformation processes
09 p1293 N84-18446

WOLFE (STEVE), ATLANTA, GA.
Maximum-efficiency dc-motor project for electric vehicles
[DE84-000791] 07 p0999 N84-16479

WOODS HOLE OCEANOGRAPHIC INSTITUTION, MASS.
Sediment transport in a tidal inlet
[PB83-242271] 03 p0402 N84-12632
Long term upper ocean study (LOTUS) at 34 deg N, 70 deg W: Meteorological sensors, data and heat fluxes for May-October 1982 (LOTUS-3 and LOTUS-4)
[AD-A133883] 05 p0711 N84-14659
The long term upper ocean study (LOTUS). Cruise summary and hydrographic data report, ENDEAVOR 97, April 1983
[AD-A134005] 06 p0883 N84-15745
The numerical synthesis and inversion of acoustic fields using the Hankel transform with application to the estimation of the plane wave reflection coefficient of the ocean bottom
[AD-A133156] 06 p0908 N84-15901
A compilation of moored current meter data from the western North Pacific. Volume 31, 1980 - 1982
[AD-A134234] 08 p1196 N84-17796
Hydrographic station data of five surveys of the beta-triangle in the eastern North Atlantic, 1978 - 1981
[PB84-100874] 08 p1196 N84-17800
Waves and circulation driven by oscillatory winds in an idealized ocean basin
[AD-P002650] 11 p1689 N84-21015
Observational evidence for an eddy-driven deep circulation in the North Atlantic
[AD-P002660] 11 p1690 N84-21025
FINDIF: A software package to create synthetic seismograms by finite differences
[AD-A138904] 14 p2183 N84-24081
A compilation of moored current meter data from the region of the North Pacific boundary current, volume 33
[AD-A140687] 17 p2737 N84-27389
Panel 1B: Assessment and scientific understanding of hard mineral resources in the EEZ
18 p2866 N84-28195
Bottom-mounted profiling winch
[AD-A141808] 19 p3032 N84-29230
Undersea acoustic research
[AD-A142339] 20 p3291 N84-30891
MAGSAT correlations with geoid anomalies
[E84-10174] 21 p3427 N84-31736
MAGSAT correlations with geoid anomalies
[E84-10190] 22 p3613 N84-32894

WOODS (JAMES E.), AMES, IOWA.
NBS (National Bureau of Standards) Workshop: Environmental Control for Archival Records Storage
[PB83-242230] 03 p0460 N84-13026

WOODWARD-CLYDE CONSULTANTS, ROCKVILLE, MD.
Geotechnical and geologic design considerations for a shelf mounted OTEC (Ocean Thermal Energy Conversion) facility
[PB84-166147] 20 p3238 N84-30554

WOODARD-CLYDE CONSULTANTS, SAN FRANCISCO, CALIF.
Seismicity of the Paradox Basin and the Colorado Plateau interior
[DE84-011620] 20 p3228 N84-30516

WORLD CLIMATE PROGRAMME, GENEVA (SWITZERLAND).
The International Satellite Cloud Climatology Project (ISCCP) preliminary implementation plan, revision 1
[WCP-35-REV-1] 23 p3801 N84-34098
Rainfall patterns in the desert
[WCP-75] 23 p3801 N84-34099
Report of the Meeting of Experts on the Design of a Pilot Atmospheric-Hydrological Experiment for the WCRP
[WCP-76] 23 p3801 N84-34100
Report of the Meeting of Experts on Sea Ice and Climate Modelling
[WCP-77] 23 p3801 N84-34101
Report of the Second Session of the JSC/CCCO WOCE Scientific Steering Group
[WCP-81] 23 p3801 N84-34102
Report of the Planning Meeting on International Satellite Cloud Climatology Project (ISCCP)
[WCP-28] 24 p3933 N84-34898
The International Satellite Cloud Climatology Project (ISCCP) preliminary implementation plan
[WCP-20] 24 p3933 N84-34899
WMO project on research and monitoring of atmospheric CO2. Report of the WMO(CAS) Meeting of Experts on the CO2 Concentrations from Pre-Industrial Times to I.G.Y.
[REPT-1] 24 p3934 N84-34900

WORLD METEOROLOGICAL ORGANIZATION, GENEVA (SWITZERLAND).
Composition of the WMO
[WMO-5] 02 p0254 N84-11680
Report of the Fourth Session of the Joint Scientific Committee 02 p0256 N84-11679
Guide to agricultural meteorological practices, second edition
[WMO-134] 03 p0412 N84-12697
Tropical cyclone operational plan for the Southwest Indian Ocean
[WMO-618] 06 p0882 N84-15741
Guide to meteorological instruments and methods of observation
[WMO-8] 08 p1191 N84-17764
World Weather Watch: The plan and implementation program, 1984-1987
[WMO-617] 13 p2017 N84-23078
Integrated Global Ocean Services System (IGOSS): Guide to the IGOSS data processing and services system
[WMO-623] 13 p2019 N84-23089
Guide to hydrological practices. Volume 2: Analysis, forecasting and other applications
[WMO-168] 15 p2358 N84-25145
Guide to climatological practices, second edition
[WMO-100] 15 p2371 N84-25225
World Weather Watch Planning report no. 38: Very short range forecasting: Observations, methods and systems
[WMO-621] 15 p2371 N84-25226
Report of the WMO/CAS expert meeting on atmospheric boundary layer parameterization over the oceans for long range forecasting and climate models
[WCP-74] 18 p2884 N84-28297
The International Satellite Cloud Climatology Project (ISCCP): Cloud analysis algorithm intercomparison
[WCP-73] 18 p2886 N84-28313
Seminar on Radar Meteorology
[WMO-626] 18 p2886 N84-28314
World meteorological activities report
[WMO-628] 20 p3248 N84-30614
Report of the second session of the International Working Group on Data Management for the International Satellite Cloud Climatology Project (ISCCP)
[WCP-52] 23 p3801 N84-34103

WRIGHT AERONAUTICAL CORP., PATERSON, N.J.
Standardized computing system SDS80
[AD-P003585] 21 p3340 N84-31190

WRIGHT STATE UNIV., DAYTON, OHIO.
Investigation of the dynamics and threshold behavior of endothermic negative ion-neutral reactions
[DE84-001369] 04 p0602 N84-13975
A general measurement design philosophy for the Kalman filter estimation with special application given to the imaging radar autofocus update
[AD-A133895] 05 p0734 N84-14819
Photoluminescence excitation of the 1.441-eV cation antisite emission in p-type GaAs
[AD-A134332] 07 p1080 N84-17021
Compound semiconductor characterization
[AD-A143601] 23 p3830 N84-34292
WROCLAW UNIV. (POLAND).
Evaluation of the quality of predictions in the case of a variable with strongly asymmetric distribution
09 p1410 N84-19215
WUERZBURG UNIV. (WEST GERMANY).
Activities report of the institute of Astronomy and Astrophysics 03 p0463 N84-13048
WYLE LABS., INC., HUNTSVILLE, ALA.
Acoustic environmental accuracy requirements for response determination
[NASA-CR-171003] 13 p2039 N84-23234
WYOMING UNIV., LARAMIE.
Snowy Range Observatory: Climatological and streamflow data report 1982
[PB83-243147] 03 p0403 N84-12633
Field and laboratory studies of ice nucleation in winter orographic clouds 03 p0409 N84-12678
Optimal delay estimation in a multiple sensor array having spatially correlated noise
[AD-A133810] 05 p0734 N84-14820
Infrared measurements of AFGL (Air Force Geophysics Laboratory) sources
[AD-A133553] 06 p0938 N84-16098
A study of polymer matrix fatigue properties
[AD-A135076] 08 p1122 N84-17294
Cloud physics investigations by the University of Wyoming in HIPLEX 1977-1982
[PB84-106756] 08 p1192 N84-17770
Acid precipitation in southeastern Wyoming
[PB84-132521] 10 p1533 N84-20039
Geophysical consequences of phanerozoic and Archean crustal evolution: Evidence from crustal cross-sections
11 p1679 N84-20955
Axial test methods development for 3-D cylindrical-weave carbon-carbon composite materials
[AD-A136221] 12 p1790 N84-21672
Cloud physics studies in SCPP (Sierra Cooperative Pilot Project) during 1982-1983
[PB84-176452] 17 p2735 N84-27384
Solid surface luminescence analysis
[DE84-011254] 20 p3310 N84-31022
A 1-dimensional time dependent model of the stratospheric aerosol 21 p3437 N84-31808
Depositional environment and petrology of the Medicine Peak Quartzite (early proterozoic), southern Wyoming
21 p3441 N84-31829
Recent eolian activity and paleoclimate fluctuations in the Ferris Lost Soldier Area, South-Central Wyoming
21 p3441 N84-31830

X

XEROX PALO ALTO RESEARCH CENTER, CALIF.
Vibrational studies of the structure of disordered solids
[AD-A142297] 20 p3202 N84-30338
XEROX WEBSTER RESEARCH CENTER, N.Y.
Chemical bonding, interdiffusion and electronic structure at InP, GaAs, and si-metal interfaces
[AD-A141809] 19 p2988 N84-28936
XONICS, INC., VAN NUYS, CALIF.
AFCRL (Air Force Cambridge Research Laboratories) acoustic wind sensor system
[AD-A133739] 05 p0708 N84-14641

Y

YALE UNIV., NEW HAVEN, CONN.
Analysis of the Howells-Applebaum algorithm in the presence of moving interference. The use of lattice filters in daptive array processors. Stability analysis of LMS adaptive filters. Adaptive array processors with moving interference
[AD-A130218] 01 p0063 N84-10413
The plasma membrane calcium pump
02 p0264 N84-11734
The behavior of cold gas in spheroidal galactic potentials 02 p0306 N84-12010
Simulations of galaxy mergers
03 p0464 N84-13054
Collisional energy exchange in polyatomic molecules
[AD-A133942] 05 p0744 N84-14886
Classifying bugs is a tricky business
[AD-A133264] 06 p0895 N84-15813
PROUST: Knowledge-based program understanding
[AD-A133447] 06 p0897 N84-15825
A learning approach to routing in data communication networks
[REPT-8212] 06 p0899 N84-15834
An investigation of the use of iterative linear equation solvers in codes for large stiff systems of ODE's
[AD-A133189] 06 p0901 N84-15845
Rotational CARS application to simultaneous and multiple-point temperature and concentration determination in a turbulent flow
[NASA-CR-175334] 07 p1001 N84-16489
Wave-particle interactions on relativistic electron beams
[AD-A134270] 07 p1009 N84-16545
Hydrogen storage by molecular polyhydrides
[AD-A136431] 09 p1278 N84-18346
Mechanisms of gravirerception and response in pea seedlings 09 p1353 N84-18839
The extension and application of global compaction techniques for horizontal scientific code
[AD-A135794] 09 p1368 N84-18934
Rotational cars application to simultaneous and multiple-point temperature and concentration determination in a turbulent flow
[NASA-CR-3783] 09 p1385 N84-19044
Interfacial tension between water and selected superheated liquids by quadrupole oscillations of drops
[AD-A136996] 10 p1455 N84-19502
Comparisons of rational engineering correlations of thermophoretically-augmented particle mass transfer with STAN5-predictions for developing boundary layers
[NASA-CR-168221] 10 p1471 N84-19606
A normative model of work team effectiveness
[AD-A136396] 10 p1551 N84-20165
An intergroup perspective on group dynamics
[AD-A135582] 10 p1551 N84-20167
Time map maintenance
[AD-A137236] 10 p1567 N84-20268
Simultaneous multipoint measurements of density gradients and temperature in a flame
[DE84-006832] 12 p1794 N84-21697
Fiscal and monetary policy in a general equilibrium model
[AD-A138502] 12 p1920 N84-22510
Representing and acquiring geographic knowledge
[AD-A139308] 14 p2189 N84-23994
Singular value computations with systolic arrays
[AD-A139302] 14 p2211 N84-24277
Solving the Poisson equation on the FPS-164 (Floating Point System-164)
[AD-A139307] 14 p2211 N84-24278
A parallel QR method using fast Givens' rotations
[AD-A139184] 14 p2212 N84-24281
A hybrid Chebyshev Krylov subspace algorithm for solving nonsymmetric systems of linear equations
[AD-A139301] 14 p2213 N84-24291
An approximate Newton method for coupled nonlinear systems
[AD-A139589] 14 p2214 N84-24300
Preconditioning by fast direct methods for non-self-adjoint nonseparable elliptic equations
[AD-A139360] 14 p2219 N84-24316
Limits of pattern discrimination in human vision
[AD-A139921] 15 p2379 N84-25278
Thermoregulation: Long-term microwave effects
[AD-A140844] 17 p2745 N84-27432
A high performance bulk memory system
[AD-A140780] 17 p2749 N84-27451
Software psychology: The need for an interdisciplinary program
[PB84-176718] 17 p2755 N84-27486
The explanation game
[AD-A140681] * 17 p2757 N84-27500
Preconditioned iterative methods for nonselfadjoint or indefinite elliptic boundary value problems
[AD-A140777] 17 p2758 N84-27511
Parallel scaled givens rotations for the solution of linear least squares problems
[AD-A140778] 17 p2758 N84-27512
Stable explicit schemes for equations of the Schroedinger type
[AD-A140779] 17 p2758 N84-27513
To the wilderness and beyond: The application of a model for transformal change
[AD-P003249] 18 p2904 N84-28416
Numerical methods for nonlinear elliptic eigenvalue problems
[DE84-010408] 18 p2926 N84-28558
Electron impact cross sections for molecular lasers
[AD-A141754] 19 p3029 N84-29211
A stable explicit scheme for the ocean acoustic wave equation
[AD-A141800] 19 p3062 N84-29427
Local uniform mesh refinement with moving grids
[AD-A141782] 19 p3088 N84-29602
Techniques for large sparse systems arising from continuation methods
[DE84-010410] 20 p3282 N84-30833
PLTMGC: A multi-grid continuation program for parameterized nonlinear elliptic systems
[DE84-010406] 21 p3474 N84-32017
Systematic jointing in the cardium sandstone along the Bow River, Alberta, Canada 22 p3620 N84-32937
Editing by example 22 p3639 N84-33070
Strain release along ocean transform faults
24 p3918 N84-34804
Observational and theoretical studies of the evolving structure of baroclinic waves 24 p3925 N84-34845
Carbon and nitrogen abundances in field dwarf stars
24 p3966 N84-35236
Resonant 3-wave interactions and an application to the 160 minute solar oscillation 24 p3992 N84-35263
YALE UNIV. OBSERVATORY, NEW HAVEN, CONN.
Diagnosing a PDS microdensitometer
18 p2839 N84-28021
Improvements to the Photometric response and positional accuracy of the Yale PDS 2020G microdensitometer 18 p2840 N84-28033
YAMANASHI UNIV., KOFU (JAPAN).
Relativistic vector sub p x vector sub b acceleration of charged particles by an obliquely propagating electrostatic wave
[IPPJ-680] 21 p3500 N84-32183
YARDNEY ELECTRIC CORP., PAWCATUCK, CONN.
Bipolar nickel-hydrogen batteries for aerospace applications 23 p3739 N84-33701
YATSUSHIRO TECHNICAL COLL., KUMAMOTO (JAPAN).
Realization and analysis of a mask-programmable I2L multivalued logic circuit
[AD-P002352] 14 p2192 N84-24143
YLYK LTD., ANN ARBOR, MICH.
High speed low-cost ways to get messages from a sender to a receiver when some channels linking them become inoperative
[AD-A142831] 21 p3386 N84-31488
YOKOHAMA MUNICIPAL UNIV. (JAPAN).
Physiological function of combustion gas and especially that of CN 04 p0514 N84-13376
YORK UNIV., DOWNSVIEW (ONTARIO).
Numerical simulation of spacecraft charging phenomena at high altitude
[AD-A130043] 01 p0028 N84-10178
Convex integration of non-linear systems of partial differential equations 14 p2210 N84-24271
Is there a good way to model spacecraft charging in the presence of space-charge coupling, flow and magnetic fields?
[AD-P002102] 16 p2521 N84-26188
The threshold temperature effect in high-voltage spacecraft charging
[AD-P002120] 16 p2524 N84-26206
YORK UNIV., TORONTO (ONTARIO).
Incident velocity distributions on sampling electrodes of spacecraft plasma instruments 08 p1117 N84-17267
YOUNG (ARTHUR) AND CO., WASHINGTON, D. C.
Office automation management guide
[AD-A131770] 03 p0458 N84-13012
YOUNG (EDMOND) AND ASSOCIATES, MICKLETON, N.J.
Opportunities for the chemical industry in space, part 1
[NASA-CR-173594] 16 p2462 N84-25776
YOUNGSTOWN STATE UNIV., OHIO.
Ada (trademark) tasking in numerical analysis
[AD-P003429] 20 p3271 N84-30761

Z

ZANINGER ENGINEERING CO., SAN JOSE, CALIF.
Investigate alternative interconnection strategies for arrays of wind turbine generators
[ORNL/SUB-82-69804/1] 16 p2512 N84-26120
ZARAGOZA UNIV. (SPAIN).
Study on the influence of X-ray focus on the image quality in radiological systems 17 p2764 N84-27555
ZEISS (CARL), OBERKOCHEN (WEST GERMANY).
Modular image analysis system
[BMFT-FB-T-84-074] 21 p3499 N84-32177
Optimizing tools for generating spherical surfaces and polishing powders in optical production technology
[BMFT-FB-T-84-094] 21 p3499 N84-32178
Development of production technologies for the series production of optical components with aspheric surfaces
[BMFT-FB-T-84-115] 23 p3727 N84-33620
Development of a 60 cm photographic Zenith telescope, and construction of a prototype
[BMFT-FB-T-84-122] 23 p3826 N84-34263

ZIMBABWE UNIV., SALISBURY.
The use of Auger electron spectroscopy and ellipsometry in the study of corrosion inhibition
06 p0815 N84-15307
The greenstone belts of Zimbabwe
11 p1681 N84-20968
ZURICH UNIV. (SWITZERLAND).
Crop identification of SAR data using digital textural analysis
07 p0988 N84-16404
Measurement of diffusion constant by pulsed magnetic field gradient NMR in Ag26I13W4O16 RbAg4I5 and KAg4I5
11 p1743 N84-21373
The NMR laser: A nonlinear solid state system showing chaos
14 p2239 N84-24440
Multitemporal LANDSAT urban area classification
23 p3768 N84-33886
The potential of low dose computed tomography in assessing space flight induced bone loss
23 p3807 N84-34141
ZYCOR, INC., AUSTIN, TEX.
Manual and automated line generalization and feature displacement
[AD-A143250] 22 p3614 N84-32900

CONTRACT NUMBER INDEX

Typical Contract Number Index Listing

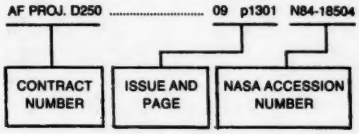

Listings in this index are arranged alphanumerically by contract number. Under each contract number, the NASA accession numbers denoting documents that have been produced as a result of research done under that contract are arranged in ascending order. The issue and page number identify the *STAR* issue in which the document was announced and the page number on which the citation appears. The NASA accession number denotes the number by which the citation is identified on that page.

A-4638 ..... 08 p1117 N84-17267
A/KLU/019 ..... 12 p1827 N84-21912
AF PROJ 2304 ..... 04 p0546 N84-13596
AF PROJ. AFSD 20 p3202 N84-30337
AF PROJ. A032 ..... 01 p0105 N84-10683
AF PROJ. C50-3 ..... 15 p2408 N84-25454
AF PROJ. C654 ..... 06 p0795 N84-15181
AF PROJ. C655 ..... 09 p1273 N84-18311
09 p1273 N84-18312
15 p2282 N84-24703
15 p2282 N84-24704
AF PROJ. D250 ..... 09 p1301 N84-18504
AF PROJ. D302 ..... 12 p1836 N84-21970
AF PROJ. F12141 ..... 19 p3076 N84-29515
AF PROJ. F59553 ..... 18 p2889 N84-28340
AF PROJ. F63521 ..... 16 p2546 N84-26341
AF PROJ. HM88 ..... 19 p2970 N84-28820
AF PROJ. ILIR 05 p0660 N84-14336
05 p0702 N84-14610
06 p0847 N84-15527
08 p1136 N84-17390
08 p1186 N84-17731
09 p1388 N84-19067
14 p2122 N84-23720
15 p2410 N84-25468
AF PROJ. LDFP 17 p2654 N84-26974
19 p3095 N84-29656
AF PROJ. LDPP 13 p2047 N84-23281
AF PROJ. LD14 ..... 09 p1301 N84-18505
AF PROJ. LD16 ..... 04 p0520 N84-13417
15 p2408 N84-25453
AF PROJ. MOIE 08 p1145 N84-17448
AF PROJ. M0097PN 19 p3078 N84-29528
AF PROJ. RR01301 ..... 18 p2932 N84-28596
AF PROJ. R244 ..... 15 p2418 N84-25520
19 p3076 N84-29518
19 p3076 N84-29519
AF PROJ. R256 ..... 14 p2169 N84-23995
AF PROJ. TKG0 ..... 08 p1108 N84-17205
AF PROJ. TKSI 11 p1621 N84-20608
AF PROJ. 1L1-61102-AH-42 ..... 10 p1563 N84-20241
AF PROJ. 1L1-62622-A-552 ..... 06 p0849 N84-15539
AF PROJ. 1L1-62622-D-554 ..... 11 p1728 N84-21271
AF PROJ. 2D60 ..... 17 p2727 N84-27359
AF PROJ. 3D10 ..... 10 p1481 N84-19678
AF PROJ. 3D30 ..... 01 p0140 N84-10919
AF PROJ. 3E1-63777-A-879 ..... 08 p1200 N84-17826
AF PROJ. 3G10 ..... 03 p0360 N84-12343
AF PROJ. 3M1-61102-BS-10 ..... 08 p1205 N84-17860
AF PROJ. 3T10 ..... 01 p0140 N84-10919
04 p0521 N84-13421
10 p1481 N84-19678
15 p2321 N84-24937
AF PROJ. 4A1-61101-A-91D 18 p2818 N84-27895
AF PROJ. 4A1-61102-B-52C 08 p1177 N84-17672
AF PROJ. 4D30 ..... 24 p3898 N84-34681
AF PROJ. 06RA 18 p2829 N84-27961
AF PROJ. 231 ..... 24 p3898 N84-34687
AF PROJ. 240-1 ..... 09 p1255 N84-18192
AF PROJ. 317J 03 p0441 N84-12894
AF PROJ. 411L 05 p0668 N84-14393
AF PROJ. 492B 06 p0823 N84-15368
AF PROJ. 649L 01 p0049 N84-10319
02 p0281 N84-11841
05 p0642 N84-14224
07 p1061 N84-17028
15 p2413 N84-25488
21 p3504 N84-32204
AF PROJ. 667-0 ..... 22 p3625 N84-32971
AF PROJ. 672A 08 p1108 N84-17206
AF PROJ. 1121 ..... 06 p0900 N84-15839
AF PROJ. 1123 ..... 01 p0016 N84-10106
02 p0268 N84-11757
07 p1050 N84-16802
08 p1106 N84-17190
08 p1106 N84-17191
09 p1259 N84-18219
24 p3857 N84-34455
AF PROJ. 1130 ..... 17 p2653 N84-26970
AF PROJ. 1174 ..... 01 p0063 N84-10411
AF PROJ. 1205 ..... 18 p2830 N84-27967
AF PROJ. 1710 ..... 03 p0457 N84-13011
07 p1052 N84-16811
10 p1430 N84-19349
16 p2567 N84-26471
AF PROJ. 1900 ..... 01 p0012 N84-10074
01 p0103 N84-10670
11 p1620 N84-20603
14 p2151 N84-23885
15 p2304 N84-24822
AF PROJ. 1921 ..... 20 p3256 N84-30669
AF PROJ. 1926 ..... 03 p0331 N84-12159
03 p0332 N84-12163
13 p1930 N84-22555
13 p2002 N84-22988
17 p2589 N84-26596
17 p2606 N84-26694
19 p2998 N84-28998
AF PROJ. 1955 ..... 14 p2247 N84-24497
AF PROJ. 2001 ..... 12 p1820 N84-21866
16 p2560 N84-26426
AF PROJ. 2002 ..... 07 p1080 N84-17025
12 p1812 N84-21815
AF PROJ. 2003 ..... 08 p1104 N84-17180
08 p1213 N84-17911
12 p1770 N84-21546
13 p1925 N84-22528
AF PROJ. 2022 ..... 02 p0209 N84-11364
AF PROJ. 2029 ..... 06 p0823 N84-15366
07 p0994 N84-16443
10 p1478 N84-19661
AF PROJ. 2036 ..... 09 p1283 N84-18383
AF PROJ. 2054 ..... 01 p0053 N84-10329
01 p0103 N84-10666
10 p1471 N84-19608
14 p2104 N84-23619
14 p2173 N84-24018
15 p2317 N84-24907
AF PROJ. 2064 ..... 09 p1301 N84-18507
AF PROJ. 2103 ..... 10 p1532 N84-20031
19 p3052 N84-29368
AF PROJ. 2104 ..... 06 p0786 N84-15146
AF PROJ. 2127 ..... 03 p0340 N84-12211
AF PROJ. 2155 ..... 06 p0824 N84-15372
AF PROJ. 2183 ..... 01 p0064 N84-10419
AF PROJ. 2202 ..... 03 p0331 N84-12159
AF PROJ. 2277 ..... 08 p1151 N84-17492
AF PROJ. 2283 ..... 05 p0668 N84-14393
AF PROJ. 2295 ..... 01 p0131 N84-10856
05 p0668 N84-14391
09 p1303 N84-18520
09 p1346 N84-18792
10 p1436 N84-19387
11 p1643 N84-20745
11 p1660 N84-20833
14 p2176 N84-24035
15 p2398 N84-25389
AF PROJ. 2301 ..... 01 p0066 N84-10428
01 p0066 N84-10431
01 p0138 N84-10905
01 p0141 N84-10924
01 p0141 N84-10925
01 p0141 N84-10926
01 p0147 N84-10965
01 p0157 N84-11032
02 p0223 N84-11464
02 p0289 N84-11894
02 p0296 N84-11938
03 p0356 N84-12316
03 p0379 N84-12467
03 p0379 N84-12470
03 p0433 N84-12837
03 p0444 N84-12918
03 p0457 N84-13009
04 p0596 N84-13935
05 p0648 N84-14261
05 p0743 N84-14881
05 p0749 N84-14918
05 p0753 N84-14940
06 p0782 N84-15125
06 p0850 N84-15544
06 p0873 N84-15683
06 p0892 N84-15794
06 p0914 N84-15943
06 p0915 N84-15946
06 p0920 N84-15983
08 p1232 N84-18054
09 p1320 N84-18621
09 p1320 N84-18622
09 p1320 N84-18625
09 p1321 N84-18627
09 p1321 N84-18634
09 p1322 N84-18636
09 p1385 N84-19045
09 p1385 N84-19047
09 p1390 N84-19077
09 p1394 N84-19104
09 p1396 N84-19115
09 p1397 N84-19125
11 p1662 N84-20846
11 p1662 N84-20847
11 p1663 N84-20848
11 p1663 N84-20849
11 p1663 N84-20850
11 p1683 N84-20981
11 p1730 N84-21285
13 p1995 N84-22946
13 p1995 N84-22949
13 p2043 N84-23255
13 p2044 N84-23268
14 p2132 N84-23778
14 p2142 N84-23843
14 p2150 N84-23881
14 p2222 N84-24333
14 p2245 N84-24483
14 p2245 N84-24484
14 p2245 N84-24485
14 p2246 N84-24486
15 p2257 N84-24557
15 p2257 N84-24559
15 p2257 N84-24560
15 p2302 N84-24816
15 p2368 N84-25209
16 p2497 N84-26024
16 p2556 N84-26397
16 p2558 N84-26412
16 p2558 N84-26414
17 p2623 N84-26791
17 p2663 N84-26989
17 p2663 N84-26991
18 p2876 N84-28259
19 p3029 N84-29208
AF PROJ. 2303 ..... 01 p0044 N84-10283
01 p0141 N84-10927
01 p0141 N84-10929
01 p0156 N84-11026
03 p0349 N84-12270

	03	p0380	N84-12471
	03	p0432	N84-12830
	03	p0433	N84-12838
	03	p0452	N84-12972
	05	p0649	N84-14267
	05	p0703	N84-14612
	05	p0744	N84-14886
	05	p0744	N84-14890
	08	p1124	N84-17304
	08	p1136	N84-17391
	08	p1137	N84-17393
	08	p1166	N84-17594
	09	p1259	N84-18220
	09	p1278	N84-18343
	09	p1278	N84-18344
	09	p1280	N84-18358
	09	p1288	N84-18408
	09	p1322	N84-18639
	09	p1323	N84-18643
	09	p1323	N84-18646
	09	p1333	N84-18705
	09	p1392	N84-19088
	10	p1468	N84-19586
	10	p1576	N84-20326
	11	p1628	N84-20655
	11	p1683	N84-20981
	11	p1730	N84-21284
	11	p1730	N84-21286
	13	p1966	N84-22770
	14	p2150	N84-23862
	18	p2810	N84-27841
	18	p2811	N84-27842
	18	p2811	N84-27846
	19	p2985	N84-28913
	19	p2988	N84-28935
	19	p2998	N84-28996
	19	p3029	N84-29212
	19	p3101	N84-29698
	19	p3101	N84-29699
	23	p3714	N84-33541
AF PROJ. 2304	01	p0063	N84-10413
	01	p0066	N84-10434
	01	p0069	N84-10453
	01	p0072	N84-10471
	01	p0092	N84-10600
	01	p0123	N84-10802
	01	p0123	N84-10803
	01	p0129	N84-10841
	01	p0129	N84-10842
	01	p0132	N84-10866
	01	p0133	N84-10874
	01	p0134	N84-10875
	01	p0134	N84-10877
	01	p0136	N84-10894
	02	p0272	N84-11777
	02	p0272	N84-11782
	02	p0273	N84-11785
	02	p0273	N84-11787
	02	p0278	N84-11821
	02	p0279	N84-11826
	02	p0280	N84-11836
	02	p0281	N84-11842
	02	p0281	N84-11844
	02	p0282	N84-11845
	02	p0284	N84-11859
	02	p0294	N84-11926
	03	p0371	N84-12418
	03	p0417	N84-12726
	03	p0424	N84-12771
	03	p0427	N84-12798
	03	p0427	N84-12799
	03	p0428	N84-12808
	04	p0590	N84-13898
	05	p0667	N84-14386
	05	p0674	N84-14432
	05	p0690	N84-14532
	05	p0726	N84-14764
	05	p0732	N84-14808
	05	p0733	N84-14815
	05	p0734	N84-14821
	05	p0734	N84-14822
	05	p0735	N84-14824
	05	p0735	N84-14825
	05	p0739	N84-14854
	05	p0739	N84-14855
	05	p0739	N84-14856
	05	p0739	N84-14857
	05	p0740	N84-14859
	06	p0899	N84-15835
	06	p0900	N84-15842
	06	p0901	N84-15845
	06	p0901	N84-15846
	06	p0901	N84-15847
	06	p0904	N84-15867
	06	p0904	N84-15868
	08	p1104	N84-17179
	08	p1150	N84-17484
	08	p1157	N84-17536
	08	p1158	N84-17537
	08	p1170	N84-17624
	08	p1209	N84-17887
	08	p1211	N84-17902
	08	p1212	N84-17904
	08	p1212	N84-17905
	08	p1215	N84-17927
	08	p1215	N84-17928
	08	p1215	N84-17930
	08	p1218	N84-17945
	08	p1218	N84-17946
	08	p1218	N84-17947
	08	p1218	N84-17948
	08	p1218	N84-17949
	08	p1218	N84-17950
	08	p1218	N84-17951
	08	p1218	N84-17952
	08	p1219	N84-17953
	08	p1219	N84-17954
	08	p1219	N84-17955
	08	p1219	N84-17956
	08	p1219	N84-17958
	08	p1219	N84-17959
	08	p1223	N84-17984
	08	p1223	N84-17986
	08	p1228	N84-18027
	08	p1238	N84-18091
	08	p1240	N84-18104
	08	p1240	N84-18105
	08	p1240	N84-18106
	09	p1299	N84-18492
	09	p1299	N84-18493
	09	p1299	N84-18494
	09	p1303	N84-18521
	09	p1314	N84-18588
	09	p1316	N84-18597
	09	p1327	N84-18667
	09	p1365	N84-18910
	09	p1365	N84-18913
	09	p1367	N84-18923
	09	p1368	N84-18930
	09	p1369	N84-18937
	09	p1376	N84-18985
	09	p1376	N84-18986
	09	p1376	N84-18987
	09	p1376	N84-18989
	09	p1376	N84-18990
	09	p1378	N84-18999
	09	p1379	N84-19007
	09	p1381	N84-19018
	09	p1381	N84-19022
	09	p1382	N84-19023
	09	p1382	N84-19024
	09	p1382	N84-19025
	09	p1382	N84-19028
	09	p1383	N84-19035
	09	p1384	N84-19038
	09	p1384	N84-19039
	09	p1384	N84-19041
	09	p1384	N84-19042
	09	p1391	N84-19084
	09	p1404	N84-19170
	09	p1404	N84-19171
	09	p1404	N84-19176
	10	p1491	N84-19750
	10	p1562	N84-20234
	10	p1562	N84-20235
	10	p1564	N84-20245
	10	p1564	N84-20246
	10	p1569	N84-20276
	10	p1570	N84-20290
	10	p1571	N84-20294
	10	p1571	N84-20296
	10	p1573	N84-20312
	10	p1575	N84-20323
	10	p1585	N84-20390
	11	p1707	N84-21125
	11	p1708	N84-21131
	11	p1713	N84-21169
	11	p1713	N84-21171
	11	p1713	N84-21172
	11	p1714	N84-21174
	11	p1717	N84-21202
	11	p1718	N84-21208
	11	p1750	N84-21420
	11	p1750	N84-21421
	11	p1750	N84-21422
	14	p2156	N84-23917
	14	p2203	N84-24220
	14	p2205	N84-24234
	15	p2332	N84-25007
	15	p2336	N84-25025
	15	p2384	N84-25300
	15	p2397	N84-25384
	15	p2398	N84-25385
	15	p2398	N84-25388
	15	p2400	N84-25400
	15	p2400	N84-25404
	15	p2407	N84-25452
	16	p2547	N84-26345
	16	p2550	N84-26364
	16	p2550	N84-26365
	16	p2565	N84-26459
	17	p2754	N84-27478
	17	p2759	N84-27507
	18	p2829	N84-27958
	18	p2837	N84-28006
	18	p2921	N84-28525
	18	p2923	N84-28540
	18	p2924	N84-28541
	18	p2925	N84-28546
	18	p2925	N84-28547
	18	p2925	N84-28549
	18	p2926	N84-28556
	19	p2982	N84-28896
	19	p3004	N84-29038
	19	p3007	N84-29062
	19	p3008	N84-29069
	19	p3016	N84-29120
	19	p3016	N84-29122
	19	p3072	N84-29487
	19	p3079	N84-29536
	19	p3085	N84-29578
	19	p3085	N84-29579
	19	p3090	N84-29615
	19	p3090	N84-29619
	19	p3095	N84-29657
	19	p3115	N84-29795
	19	p3116	N84-29797
	20	p3173	N84-30150
	23	p3818	N84-34208
AF PROJ. 2305	01	p0018	N84-10113
	01	p0072	N84-10469
	01	p0072	N84-10470
	01	p0083	N84-10539
	01	p0084	N84-10545
	01	p0131	N84-10860
	01	p0146	N84-10961
	01	p0146	N84-10962
	01	p0152	N84-11001
	02	p0272	N84-11779
	02	p0293	N84-11923
	02	p0294	N84-11928
	03	p0360	N84-12344
	03	p0379	N84-12466
	03	p0452	N84-12978
	05	p0647	N84-14257
	05	p0669	N84-14400
	05	p0674	N84-14430
	05	p0674	N84-14431
	05	p0684	N84-14499
	05	p0734	N84-14819
	05	p0742	N84-14877
	05	p0747	N84-14903
	05	p0752	N84-14934
	05	p0753	N84-14939
	05	p0753	N84-14941
	06	p0822	N84-15361
	09	p1254	N84-18186
	09	p1254	N84-18188
	09	p1306	N84-18539
	09	p1309	N84-18559
	09	p1323	N84-18645
	09	p1373	N84-18963
	09	p1387	N84-19056
	09	p1389	N84-19069
	09	p1390	N84-19075
	09	p1390	N84-19078
	10	p1571	N84-20291
	10	p1579	N84-20344
	10	p1579	N84-20345
	11	p1641	N84-20730
	12	p1806	N84-21772
	12	p1807	N84-21782
	12	p1807	N84-21783
	12	p1811	N84-21806
	13	p1982	N84-22869
	13	p1983	N84-22874
	13	p2033	N84-23184
	13	p2043	N84-23254
	13	p2043	N84-23256
	14	p2140	N84-23833
	15	p2321	N84-24934
	15	p2329	N84-24985
	17	p2663	N84-26992
	19	p3013	N84-29101
	20	p3178	N84-30183
	20	p3178	N84-30188
	20	p3309	N84-31013
	22	p3577	N84-32656

AF PROJ. 2308
01 p0044 N84-10281
01 p0050 N84-10324
01 p0066 N84-10429
01 p0083 N84-10543
01 p0140 N84-10917
01 p0153 N84-11008
01 p0156 N84-11025
02 p0194 N84-11260
02 p0194 N84-11261
02 p0231 N84-11517
02 p0231 N84-11519
02 p0294 N84-11930
02 p0298 N84-11955
03 p0360 N84-12340
03 p0452 N84-12974
05 p0645 N84-14244
05 p0648 N84-14260
05 p0653 N84-14294
05 p0653 N84-14295
05 p0653 N84-14296
05 p0654 N84-14297
05 p0674 N84-14428
05 p0752 N84-14935
05 p0753 N84-14937
05 p0753 N84-14938
06 p0806 N84-15250
06 p0806 N84-15253
06 p0923 N84-15999
07 p1080 N84-17021
09 p1249 N84-18155
09 p1278 N84-18342
09 p1283 N84-18379
09 p1284 N84-18387
09 p1287 N84-18404
09 p1318 N84-18612
09 p1395 N84-19113
09 p1396 N84-19121
09 p1397 N84-19123
10 p1555 N84-20191
10 p1588 N84-20405
12 p1913 N84-22463
12 p1914 N84-22471
13 p1960 N84-22738
13 p2046 N84-23279
13 p2047 N84-23282
14 p2127 N84-23754
14 p2128 N84-23756
14 p2224 N84-24350
15 p2391 N84-25350
15 p2397 N84-25382
15 p2413 N84-25484
15 p2413 N84-25485
16 p2502 N84-26060
17 p2619 N84-26762
17 p2623 N84-26789
17 p2624 N84-26797
18 p2814 N84-27862
18 p2940 N84-28649
19 p2993 N84-28966
19 p2994 N84-28974
19 p3110 N84-29760
19 p3110 N84-29762
19 p3110 N84-29763
22 p3663 N84-33218
24 p3888 N84-34621
24 p3964 N84-35100

AF PROJ. 2307
01 p0005 N84-10031
01 p0012 N84-10073
01 p0031 N84-10194
01 p0031 N84-10196
01 p0078 N84-10507
01 p0090 N84-10585
01 p0095 N84-10616
01 p0096 N84-10622
01 p0096 N84-10623
01 p0121 N84-10789
02 p0175 N84-11149
02 p0206 N84-11341
02 p0209 N84-11366
03 p0320 N84-12095
03 p0385 N84-12509
05 p0627 N84-14124
05 p0632 N84-14151
05 p0645 N84-14242
05 p0680 N84-14467
05 p0680 N84-14468
05 p0680 N84-14469
05 p0680 N84-14471
05 p0692 N84-14545
05 p0692 N84-14546
05 p0692 N84-14547
05 p0693 N84-14548
05 p0693 N84-14549
05 p0744 N84-14885
06 p0799 N84-15206
06 p0799 N84-15207
06 p0812 N84-15287
07 p0948 N84-16150
07 p0968 N84-16272
07 p1016 N84-16592
08 p1099 N84-17146
08 p1156 N84-17538
08 p1158 N84-17539
08 p1159 N84-17545
08 p1159 N84-17548
09 p1252 N84-18174
09 p1252 N84-18175
09 p1276 N84-18330
09 p1276 N84-18334
09 p1313 N84-18583
09 p1314 N84-18584
09 p1314 N84-18585
09 p1314 N84-18589
09 p1315 N84-18591
09 p1315 N84-18592
09 p1316 N84-18599
09 p1330 N84-18687
09 p1331 N84-18688
09 p1332 N84-18694
09 p1332 N84-18695
09 p1332 N84-18696
09 p1333 N84-18701
09 p1334 N84-18708
10 p1422 N84-19298
10 p1422 N84-19299
10 p1422 N84-19300
10 p1452 N84-19486
10 p1493 N84-19761
10 p1493 N84-19763
10 p1493 N84-19764
10 p1493 N84-19765
10 p1498 N84-19788
10 p1511 N84-19887
10 p1518 N84-19935
10 p1571 N84-20295
10 p1572 N84-20298
11 p1603 N84-20498
11 p1668 N84-20886
12 p1789 N84-21670
13 p1927 N84-22539
13 p1927 N84-22540
13 p1933 N84-22569
13 p1954 N84-22704
13 p1989 N84-22914
13 p1989 N84-22915
13 p1990 N84-22916
13 p1990 N84-22917
14 p2102 N84-23612
14 p2120 N84-23704
14 p2120 N84-23706
14 p2134 N84-23790
14 p2134 N84-23791
14 p2158 N84-23928
15 p2304 N84-24823
15 p2350 N84-25107
15 p2391 N84-25352
16 p2493 N84-25994
16 p2493 N84-25996
16 p2493 N84-25997
17 p2601 N84-26670
17 p2609 N84-26704
18 p2796 N84-27741
19 p2959 N84-28754
19 p2966 N84-28797
19 p2968 N84-28798
19 p2986 N84-28920
19 p3035 N84-29254
19 p3036 N84-29256
19 p3036 N84-29258
19 p3086 N84-29592

AF PROJ. 2308
01 p0011 N84-10071
01 p0012 N84-10075
01 p0112 N84-10725
01 p0156 N84-11027
02 p0295 N84-11931
03 p0346 N84-12251
03 p0372 N84-12421
05 p0631 N84-14150
05 p0632 N84-14152
05 p0647 N84-14258
05 p0648 N84-14259
05 p0648 N84-14263
05 p0648 N84-14264
05 p0661 N84-14345
05 p0679 N84-14466
07 p1054 N84-16827
08 p1123 N84-17303
09 p1257 N84-18205
09 p1273 N84-18313
10 p1455 N84-19505
11 p1668 N84-20885
14 p2132 N84-23776
18 p2811 N84-27845
18 p2846 N84-28069

AF PROJ. 2309
03 p0406 N84-12669
08 p1187 N84-17738
10 p1498 N84-19789
11 p1681 N84-20973
11 p1682 N84-20978
14 p2112 N84-23660
14 p2176 N84-24036
15 p2337 N84-25030

AF PROJ. 2310
03 p0377 N84-12452
03 p0406 N84-12671
05 p0643 N84-14231
05 p0703 N84-14612
05 p0733 N84-14814
06 p0866 N84-15639
06 p0882 N84-15735
09 p1345 N84-18791
11 p1683 N84-20980
11 p1687 N84-21003
11 p1714 N84-21175
11 p1732 N84-21296
16 p2557 N84-26405
18 p2879 N84-28281
18 p2880 N84-28283
18 p2890 N84-28344
19 p3053 N84-29377
19 p3058 N84-29400

AF PROJ. 2311
01 p0028 N84-10178
01 p0104 N84-10676
01 p0165 N84-11085
01 p0165 N84-11087
01 p0166 N84-11088
01 p0166 N84-11092
03 p0377 N84-12453
05 p0703 N84-14615
05 p0703 N84-14616
05 p0704 N84-14617
06 p0940 N84-16109
06 p0940 N84-16110
07 p1093 N84-17106
09 p1416 N84-19267
09 p1418 N84-19275
10 p1571 N84-20292
10 p1597 N84-20466
11 p1644 N84-20748
11 p1682 N84-20979
11 p1759 N84-21482
13 p2036 N84-23209
14 p2250 N84-24513
14 p2251 N84-24521
15 p2428 N84-25586

AF PROJ. 2312
01 p0114 N84-10739
05 p0667 N84-14385
05 p0713 N84-14673
06 p0888 N84-15771
06 p0889 N84-15775
06 p0889 N84-15776
08 p1200 N84-17822
11 p1643 N84-20744
11 p1695 N84-21056
11 p1695 N84-21057
13 p2020 N84-23098
16 p2538 N84-26294
16 p2546 N84-26343
18 p2899 N84-28393
20 p3259 N84-30685

AF PROJ. 2313
04 p0572 N84-13770
05 p0734 N84-14818
06 p0888 N84-15770
06 p0888 N84-15772
06 p0888 N84-15773
06 p0889 N84-15779
07 p1049 N84-16798
08 p1202 N84-17839
08 p1232 N84-18049
09 p1382 N84-18897
09 p1382 N84-18899
09 p1383 N84-18901
10 p1548 N84-20147
11 p1660 N84-20830
11 p1695 N84-21059
11 p1702 N84-21100
13 p1930 N84-22554
13 p2021 N84-23107
14 p2184 N84-24089
15 p2379 N84-25278
15 p2379 N84-25279
15 p2383 N84-25289
16 p2538 N84-26296
16 p2538 N84-26297
18 p2900 N84-28394
18 p2914 N84-28481
19 p3002 N84-29026
19 p3065 N84-29446
19 p3068 N84-29459

AF PROJ. 2338	01	p0043	N84-10279
	01	p0067	N84-10435
	01	p0070	N84-10460
	02	p0214	N84-11405
	02	p0272	N84-11778
	02	p0284	N84-11860
	05	p0675	N84-14435
	05	p0689	N84-14528
	05	p0689	N84-14529
	09	p1303	N84-18519
	09	p1306	N84-18553
	09	p1328	N84-18669
	10	p1480	N84-19669
	10	p1480	N84-19670
	10	p1480	N84-19671
	10	p1480	N84-19673
	10	p1480	N84-19674
	11	p1644	N84-20750
	18	p2834	N84-27989
	18	p2851	N84-28102
	19	p3004	N84-29040
	19	p3004	N84-29041
AF PROJ. 2348	01	p0006	N84-10039
	19	p2964	N84-28785
AF PROJ. 2363	05	p0720	N84-14717
AF PROJ. 2401	01	p0005	N84-10032
	01	p0032	N84-10199
	01	p0094	N84-10615
	02	p0178	N84-11163
	02	p0178	N84-11164
	02	p0223	N84-11463
	03	p0337	N84-12191
	08	p1122	N84-17296
	08	p1170	N84-17623
	08	p1171	N84-17629
	09	p1322	N84-18638
	10	p1428	N84-19340
	10	p1428	N84-19341
	15	p2281	N84-24701
	15	p2281	N84-24702
	17	p2680	N84-27070
	19	p2964	N84-28783
AF PROJ. 2402	01	p0120	N84-10782
	01	p0120	N84-10783
	02	p0249	N84-11631
	03	p0331	N84-12157
	03	p0331	N84-12158
	06	p0681	N84-15733
	12	p1860	N84-22118
	18	p2890	N84-28346
	20	p3302	N84-30967
AF PROJ. 2403	01	p0013	N84-10080
	01	p0121	N84-10784
	02	p0175	N84-11153
	02	p0176	N84-11154
	02	p0176	N84-11155
	02	p0177	N84-11162
	02	p0179	N84-11168
	03	p0330	N84-12152
	05	p0629	N84-14138
	06	p0791	N84-15160
	09	p1255	N84-18193
AF PROJ. 2404	01	p0016	N84-10102
	01	p0083	N84-10541
	02	p0218	N84-11426
	07	p0948	N84-16153
	14	p2111	N84-23657
AF PROJ. 2418	01	p0044	N84-10280
	03	p0352	N84-12290
	04	p0499	N84-13272
	05	p0625	N84-14112
	21	p3366	N84-31352
AF PROJ. 2419	02	p0188	N84-11221
	02	p0200	N84-11303
	06	p0810	N84-15274
	08	p1138	N84-17401
	16	p2472	N84-25844
	18	p2819	N84-27897
	21	p3405	N84-31600
AF PROJ. 2420	02	p0231	N84-11516
	14	p2158	N84-23927
	17	p2680	N84-27072
AF PROJ. 2421	03	p0331	N84-12161
	13	p1964	N84-22762
	16	p2469	N84-25824
AF PROJ. 2422	07	p1016	N84-16593
	09	p1287	N84-18405
AF PROJ. 2423	06	p0922	N84-15994
AF PROJ. 2503	10	p1579	N84-20343
AF PROJ. 2506	06	p1234	N84-18068
AF PROJ. 2527	12	p1881	N84-22262
	12	p1881	N84-22263
	19	p3074	N84-29504
AF PROJ. 2528	09	p1369	N84-18936
AF PROJ. 2530	14	p2209	N84-24260
	15	p2368	N84-25328
AF PROJ. 2531	01	p0120	N84-10781
	04	p0580	N84-13827
AF PROJ. 2612	19	p2970	N84-28819
AF PROJ. 2621	01	p0016	N84-10105
AF PROJ. 2646	03	p0411	N84-12692
AF PROJ. 2673	01	p0016	N84-10104
	03	p0338	N84-12195
	07	p0985	N84-16383
	10	p1517	N84-19929
	17	p2611	N84-26713
	19	p2969	N84-28818
AF PROJ. 2688	05	p0709	N84-14643
	19	p3004	N84-29039
AF PROJ. 2698	01	p0119	N84-10771
	01	p0131	N84-10856
	05	p0668	N84-14391
	09	p1303	N84-18520
	09	p1346	N84-18792
	10	p1436	N84-19387
	11	p1643	N84-20745
	11	p1660	N84-20833
	14	p2176	N84-24035
	15	p2398	N84-25389
AF PROJ. 2726	02	p0284	N84-11861
	02	p0284	N84-11862
AF PROJ. 2729	03	p0372	N84-12423
	18	p2818	N84-27892
	18	p2900	N84-28395
	21	p3359	N84-31306
AF PROJ. 2739	01	p0148	N84-10969
AF PROJ. 2743	10	p1432	N84-19363
	10	p1555	N84-20192
AF PROJ. 2781	01	p0107	N84-10694
	17	p2653	N84-26966
AF PROJ. 3017	19	p3075	N84-29510
	19	p3075	N84-29511
AF PROJ. 3020	06	p0923	N84-15998
AF PROJ. 3048	01	p0012	N84-10076
	04	p0506	N84-13319
	04	p0509	N84-13336
	05	p0649	N84-14268
	07	p0954	N84-16187
	08	p1101	N84-17157
	08	p1158	N84-17542
	08	p1159	N84-17543
	08	p1159	N84-17544
	09	p1278	N84-18345
	09	p1288	N84-18410
	10	p1424	N84-19314
	12	p1803	N84-21753
	13	p1965	N84-22769
	18	p2819	N84-27896
	18	p2821	N84-27911
	19	p2999	N84-29007
	19	p3001	N84-29019
AF PROJ. 3058	05	p0676	N84-14442
AF PROJ. 3059	02	p0186	N84-11208
	02	p0186	N84-11209
AF PROJ. 3066	01	p0084	N84-10546
	09	p1303	N84-18518
	09	p1368	N84-18932
	20	p3197	N84-30301
AF PROJ. 3145	01	p0052	N84-10335
	01	p0102	N84-10660
	01	p0138	N84-10908
	02	p0180	N84-11175
	02	p0242	N84-11582
	05	p0699	N84-14588
	06	p0830	N84-15398
	06	p0830	N84-15401
	06	p0873	N84-15684
	06	p0874	N84-15685
	06	p0874	N84-15686
	07	p0997	N84-16467
	13	p2047	N84-23280
	19	p2982	N84-28895
AF PROJ. 3201	03	p0425	N84-12785
	06	p0843	N84-15502
	13	p2011	N84-23048
AF PROJ. 3205	06	p0896	N84-15816
AF PROJ. 3211	02	p0249	N84-11629
AF PROJ. 3276	18	p2889	N84-28341
	19	p3058	N84-29402
AF PROJ. 3326	04	p0540	N84-13550
AF PROJ. 3763	02	p0213	N84-11391
	04	p0520	N84-13418
	09	p1395	N84-19109
	15	p2329	N84-24983
	19	p2964	N84-28787
AF PROJ. 3923	22	p3601	N84-32808
AF PROJ. 4130	12	p1805	N84-21769
AF PROJ. 4506	05	p0667	N84-14389
	05	p0668	N84-14394
	05	p0668	N84-14395
	08	p1145	N84-17451
	14	p2140	N84-23830
	19	p3100	N84-29689
AF PROJ. 4519	01	p0121	N84-10790
	05	p0668	N84-14396
	06	p0824	N84-15373
	09	p1302	N84-18509
	09	p1309	N84-18580
	16	p2553	N84-26378
AF PROJ. 4594	01	p0066	N84-10433
	01	p0100	N84-10649
	04	p0604	N84-13987
	09	p1302	N84-18511
	13	p2067	N84-23402
	18	p2917	N84-28497
AF PROJ. 4600	01	p0084	N84-10418
	04	p0521	N84-13424
	06	p0922	N84-15995
	11	p1643	N84-20743
	13	p1982	N84-22870
	13	p1983	N84-22875
	18	p2829	N84-27960
	18	p2844	N84-28062
	19	p3005	N84-29047
	19	p3005	N84-29048
	19	p3005	N84-29050
	19	p3006	N84-29051
	19	p3006	N84-29052
	19	p3006	N84-29053
	19	p3014	N84-29104
	22	p3576	N84-32652
AF PROJ. 4643	05	p0670	N84-14404
	08	p1186	N84-17731
	08	p1187	N84-17732
	10	p1536	N84-20066
	11	p1682	N84-20976
	13	p2011	N84-23044
	15	p2368	N84-25210
	16	p2526	N84-26218
	16	p2526	N84-26219
	18	p2860	N84-28284
	22	p3623	N84-32959
AF PROJ. 5270	09	p1368	N84-18929
AF PROJ. 5581	03	p0459	N84-13022
	08	p1212	N84-17909
	11	p1704	N84-21105
	11	p1704	N84-21106
	11	p1704	N84-21107
	11	p1707	N84-21128
	11	p1707	N84-21129
	11	p1708	N84-21130
	12	p1883	N84-22276
	12	p1884	N84-22277
	14	p2203	N84-24223
	14	p2203	N84-24224
	14	p2203	N84-24225
	14	p2205	N84-24233
	16	p2544	N84-26334
	16	p2545	N84-26336
	19	p3074	N84-29506
	19	p3077	N84-29525
	19	p3078	N84-29526
AF PROJ. 5720	09	p1398	N84-19128
	16	p2565	N84-26457
AF PROJ. 5730	14	p2156	N84-23918
	15	p2284	N84-24709
	18	p2808	N84-27826
AF PROJ. 5797	24	p3965	N84-35110
AF PROJ. 6095	14	p2106	N84-23628
AF PROJ. 6110	14	p2137	N84-23808
AF PROJ. 6114	01	p0117	N84-10758
	03	p0459	N84-13019
AF PROJ. 6244	14	p2247	N84-24498
AF PROJ. 6302	05	p0713	N84-14672
	07	p1027	N84-16657
	09	p1362	N84-18896
AF PROJ. 6320	09	p1302	N84-18510
	09	p1349	N84-18813
	09	p1349	N84-18814
AF PROJ. 6430	06	p0823	N84-15366
	07	p0994	N84-16443
	10	p1478	N84-19661
AF PROJ. 6670	01	p0107	N84-10693
	01	p0108	N84-10701
	02	p0256	N84-11675
	03	p0407	N84-12667
	03	p0410	N84-12682
	03	p0410	N84-12683
	03	p0410	N84-12686
	03	p0411	N84-12687
	03	p0411	N84-12691
	04	p0567	N84-13740
	05	p0666	N84-14382
	05	p0670	N84-14402
	05	p0708	N84-14639
	08	p1164	N84-17577
	08	p1164	N84-17578
	10	p1539	N84-20084

	10	p1539	N84-20087
	11	p1687	N84-21003
	11	p1687	N84-21004
	11	p1687	N84-21005
	12	p1860	N84-22120
	13	p2017	N84-23076
	13	p2036	N84-23206
	13	p2036	N84-23208
	18	p2889	N84-28339
	18	p2890	N84-28345
	18	p2890	N84-28347
	20	p3246	N84-30600
	20	p3246	N84-30601
	21	p3447	N84-31872
	22	p3577	N84-32655
AF PROJ. 6687	05	p0703	N84-14614
	07	p1034	N84-16706
	10	p1536	N84-20067
	11	p1671	N84-20906
	11	p1682	N84-20977
	13	p2011	N84-23045
	16	p2531	N84-26251
	22	p3623	N84-32958
AF PROJ. 6690	03	p0407	N84-12665
	04	p0563	N84-13713
	08	p1187	N84-17733
	11	p1687	N84-21002
	13	p1937	N84-22599
AF PROJ. 6759	08	p1144	N84-17442
AF PROJ. 6810	15	p2392	N84-25354
AF PROJ. 6893	07	p1051	N84-16810
AF PROJ. 7055	01	p0062	N84-10410
	09	p1302	N84-18508
AF PROJ. 7184	01	p0113	N84-10733
	07	p1050	N84-16799
	10	p1430	N84-19350
	11	p1606	N84-20516
	11	p1701	N84-21099
	12	p1868	N84-22174
	13	p2020	N84-23099
	14	p2184	N84-24086
	15	p2398	N84-25390
	17	p2588	N84-26587
AF PROJ. 7231	06	p0897	N84-15822
	07	p1042	N84-16757
	09	p1362	N84-18895
	10	p1545	N84-20130
	12	p1899	N84-22368
	13	p2024	N84-23121
	14	p2185	N84-24092
	15	p2404	N84-25428
	16	p2830	N84-27965
AF PROJ. 7233	09	p1304	N84-18524
AF PROJ. 7381	13	p1964	N84-22762
AF PROJ. 7600	02	p0248	N84-11625
	05	p0741	N84-14867
	14	p2146	N84-23862
	15	p2354	N84-25127
	22	p3623	N84-32960
AF PROJ. 7601	01	p0138	N84-10904
	02	p0185	N84-11201
	03	p0340	N84-12209
	03	p0340	N84-12210
	03	p0444	N84-12917
	08	p1121	N84-17289
	15	p2283	N84-24707
	16	p2526	N84-26217
AF PROJ. 7622	01	p0065	N84-10424
AF PROJ. 7655	05	p0708	N84-14641
AF PROJ. 7659	01	p0070	N84-10459
	03	p0320	N84-12093
	03	p0342	N84-12218
	04	p0526	N84-13460
	07	p0963	N84-16244
	11	p1622	N84-20620
	14	p2140	N84-23831
AF PROJ. 7661	01	p0028	N84-10179
	03	p0408	N84-12670
	03	p0432	N84-12831
	06	p0848	N84-15528
	10	p1448	N84-19463
	10	p1585	N84-20387
	15	p2283	N84-24706
	16	p2458	N84-25761
AF PROJ. 7670	01	p0106	N84-10687
	01	p0147	N84-10964
	04	p0563	N84-13712
	05	p0763	N84-15005
	06	p0938	N84-16098
	11	p1706	N84-21123
	11	p1707	N84-21126
AF PROJ. 7719	04	p0573	N84-13773
	07	p1063	N84-16895
	19	p3002	N84-29026
	23	p3812	N84-34169
AF PROJ. 7755	13	p2020	N84-23097
AF PROJ. 7757	03	p0414	N84-12707
	06	p0885	N84-15756
	06	p0886	N84-15760
	07	p1042	N84-16759
	09	p1361	N84-18890
	09	p1361	N84-18891
	10	p1547	N84-20141
	12	p1773	N84-21564
	12	p1863	N84-22141
	14	p2184	N84-24067
	15	p2379	N84-25280
	18	p2894	N84-28363
	19	p2984	N84-28911
	19	p3063	N84-29434
	19	p3065	N84-29443
	20	p3256	N84-30669
	22	p3631	N84-33007
AF PROJ. 7820	13	p1982	N84-22871
	14	p2141	N84-23837
	18	p2829	N84-27963
AF PROJ. 7930	04	p0572	N84-13771
	09	p1279	N84-18354
	09	p1364	N84-18906
	09	p1398	N84-19132
AF PROJ. 8809	03	p0444	N84-12920
	05	p0693	N84-14551
AF PROJ. 9749	03	p0417	N84-12727
	05	p0735	N84-14825
AF PROJ. 9991	01	p0118	N84-10763
	10	p1598	N84-20471
	17	p2770	N84-27586
AF PROJ. 9993	03	p0379	N84-12468
	03	p0379	N84-12469
	11	p1682	N84-20974
	11	p1682	N84-20975
	13	p1940	N84-22616
	19	p3114	N84-29786
	19	p3114	N84-29787
AF 33(615)-5106	09	p1304	N84-18524
AF-AFOSR-ISSA-82-00030	14	p2132	N84-23776
AF-AFOSR-ISSA-83-00027	19	p3090	N84-29618
AF-AFOSR-82-K-0007	22	p3648	N84-33132
AF-AFOSR-0003-80	19	p3029	N84-29212
AF-AFOSR-0004-82	11	p1707	N84-21125
AF-AFOSR-0005-81	08	p1139	N84-17410
AF-AFOSR-0005-82	09	p1283	N84-18379
AF-AFOSR-0006-82	22	p3534	N84-32372
AF-AFOSR-0007-80	01	p0063	N84-10413
AF-AFOSR-0007-82	05	p0736	N84-14833
AF-AFOSR-0008-80	19	p2993	N84-28967
AF-AFOSR-0009-79	08	p1232	N84-18054
	09	p1385	N84-19047
AF-AFOSR-0009-80	20	p3148	N84-29992
AF-AFOSR-0009-81	09	p1323	N84-18646
AF-AFOSR-0009B-79	08	p1232	N84-18054
AF-AFOSR-0010-79	11	p1682	N84-20979
AF-AFOSR-0010-80	22	p3664	N84-33227
AF-AFOSR-0010-82	09	p1284	N84-18387
	19	p2994	N84-28974
AF-AFOSR-0011-80	18	p2811	N84-27842
AF-AFOSR-0012-81	01	p0114	N84-10739
AF-AFOSR-0012-82	13	p1983	N84-22874
AF-AFOSR-0013-81	09	p1278	N84-18343
AF-AFOSR-0013-84	19	p3007	N84-29064
AF-AFOSR-0014-81	01	p0123	N84-10801
	09	p1365	N84-18914
	18	p2921	N84-28525
AF-AFOSR-0015-80	21	p3422	N84-31705
AF-AFOSR-0016-80	10	p1491	N84-19750
	18	p2837	N84-28006
AF-AFOSR-0017-80	14	p2134	N84-23790
AF-AFOSR-0018-79	08	p1218	N84-17952
	10	p1493	N84-19761
	11	p1715	N84-21184
	18	p2923	N84-28540
	18	p2924	N84-28541
	20	p3279	N84-30812
AF-AFOSR-0018-82	10	p1597	N84-20464
AF-AFOSR-0018-83	14	p2189	N84-24115
AF-AFOSR-0019-83	06	p0940	N84-16109
	06	p0940	N84-16110
	09	p1418	N84-19275
	15	p2428	N84-25586
AF-AFOSR-0020-81	09	p1391	N84-19084
	10	p1585	N84-20390
	15	p2332	N84-25007
AF-AFOSR-0021-81	12	p1807	N84-21783
AF-AFOSR-0021-82	19	p3013	N84-29101
AF-AFOSR-0021-83	09	p1278	N84-18344
AF-AFOSR-0022-81	14	p2128	N84-23756
AF-AFOSR-0023-83	15	p2368	N84-25209
AF-AFOSR-0024-80	19	p3065	N84-29448
AF-AFOSR-0025-79	07	p1066	N84-16923
	18	p2925	N84-28546
AF-AFOSR-0026-79	01	p0141	N84-10924
AF-AFOSR-0027-79	16	p2556	N84-26397
AF-AFOSR-0028-79	09	p1283	N84-18383
AF-AFOSR-0029-80	13	p1978	N84-22844
AF-AFOSR-0029-82	09	p1382	N84-19024
AF-AFOSR-0029-83	14	p2127	N84-23754
AF-AFOSR-0030-80	04	p0503	N84-13298
	04	p0503	N84-13299
AF-AFOSR-0030-82	01	p0069	N84-10453
	02	p0284	N84-11859
AF-AFOSR-0031-80	02	p0209	N84-11366
AF-AFOSR-0033-82	18	p2829	N84-27958
AF-AFOSR-0034-79	03	p0371	N84-12418
AF-AFOSR-0037-80	10	p1579	N84-20345
AF-AFOSR-0038-82	08	p1219	N84-17956
AF-AFOSR-0039-81	06	p0920	N84-15983
AF-AFOSR-0040-82	13	p1990	N84-22916
AF-AFOSR-0040-83	24	p3893	N84-34656
	24	p3950	N84-35013
AF-AFOSR-0041-81	24	p3884	N84-34606
AF-AFOSR-0041-82	05	p0692	N84-14545
AF-AFOSR-0044-80	21	p3366	N84-31353
AF-AFOSR-0044-82	01	p0066	N84-10428
AF-AFOSR-0046-81	13	p1960	N84-22738
AF-AFOSR-0047-81	09	p1299	N84-18494
AF-AFOSR-0049-82	18	p2811	N84-27845
AF-AFOSR-0050-82	06	p0888	N84-15773
AF-AFOSR-0050-83	14	p2132	N84-23778
AF-AFOSR-0051-82	10	p1493	N84-19765
AF-AFOSR-0052-81	20	p3280	N84-30820
AF-AFOSR-0053-79	20	p3281	N84-30832
AF-AFOSR-0053-83	19	p3008	N84-29068
AF-AFOSR-0054-80	09	p1303	N84-18521
AF-AFOSR-0055-82	03	p0408	N84-12671
AF-AFOSR-0058-82	09	p1323	N84-18643
AF-AFOSR-0059-81	09	p1320	N84-18621
	09	p1320	N84-18622
	09	p1320	N84-18623
AF-AFOSR-0060-79	13	p2044	N84-23268
AF-AFOSR-0060-81	01	p0141	N84-10925
AF-AFOSR-0060-82	15	p2337	N84-25030
AF-AFOSR-0061-80	03	p0380	N84-12471
AF-AFOSR-0061-81	06	p0850	N84-15544
AF-AFOSR-0061-82	14	p2156	N84-23917
AF-AFOSR-0061-83	19	p2993	N84-28966
AF-AFOSR-0063-83	20	p3131	N84-29880
	20	p3196	N84-30297
AF-AFOSR-0064-80	16	p2438	N84-25640
AF-AFOSR-0064-82	12	p1870	N84-22189
AF-AFOSR-0065-80	06	p0806	N84-15253
AF-AFOSR-0065-83	19	p3042	N84-29301
AF-AFOSR-0067-81	03	p0433	N84-12837
AF-AFOSR-0068-83	20	p3283	N84-30847
AF-AFOSR-0069-83	19	p3058	N84-29400
AF-AFOSR-0071-82	10	p1452	N84-19486
AF-AFOSR-0072-81	09	p1334	N84-18706
AF-AFOSR-0076-79	01	p0146	N84-10961
	23	p3825	N84-34259
AF-AFOSR-0076-82	19	p3029	N84-29206
AF-AFOSR-0077-82	14	p2158	N84-23927
AF-AFOSR-0078-79	07	p1016	N84-16592
AF-AFOSR-0078-81	06	p0889	N84-15779
AF-AFOSR-0078-82	09	p1376	N84-18990
AF-AFOSR-0079-80	03	p0379	N84-12466
AF-AFOSR-0080-79	01	p0141	N84-10927
AF-AFOSR-0081-83	23	p3816	N84-34197
AF-AFOSR-0082-81	20	p3300	N84-30956
AF-AFOSR-0083-82	16	p2493	N84-25994
AF-AFOSR-0085-82	16	p2538	N84-26296
AF-AFOSR-0085-83	23	p3811	N84-34167
AF-AFOSR-0086-81	09	p1330	N84-18687
	09	p1331	N84-18688
AF-AFOSR-0087-82	18	p2814	N84-27862
AF-AFOSR-0088-83	24	p3937	N84-34923
AF-AFOSR-0089-79	11	p1730	N84-21284
AF-AFOSR-0089-80	02	p0194	N84-11261
AF-AFOSR-0089-83	01	p0128	N84-10837
AF-AFOSR-0090-79	09	p1288	N84-18408
AF-AFOSR-0091-79	01	p0018	N84-10113
	09	p1254	N84-18188
	12	p1905	N84-22405
AF-AFOSR-0091-81	03	p0444	N84-12918
AF-AFOSR-0092-83	19	p3110	N84-29762
AF-AFOSR-0095-80	14	p2250	N84-24513
AF-AFOSR-0095-82	11	p1683	N84-20981
AF-AFOSR-0095-83	24	p3950	N84-35011
AF-AFOSR-0096-82	11	p1651	N84-20779
	12	p1815	N84-21829
	14	p2145	N84-23853
	21	p3399	N84-31582
AF-AFOSR-0097-82	01	p0077	N84-10502
AF-AFOSR-0098-80	13	p1981	N84-22863
AF-AFOSR-0098-82	09	p1389	N84-19069
AF-AFOSR-0100-83	17	p2682	N84-27077
AF-AFOSR-0101-83	22	p3594	N84-32758
AF-AFOSR-0102-83	24	p3895	N84-34688
AF-AFOSR-0105-82	09	p1385	N84-19045
AF-AFOSR-0106-81	05	p0749	N84-14918

AF-AFOSR-0107-80	15	p2350	N84-25107
AF-AFOSR-0108-83	16	p2558	N84-26414
AF-AFOSR-0110-81	09	p1367	N84-18923
AF-AFOSR-0110-82	19	p3008	N84-29067
AF-AFOSR-0111-80	01	p0115	N84-10746
AF-AFOSR-0111-83	13	p2043	N84-23258
AF-AFOSR-0112-81	01	p0123	N84-10802
AF-AFOSR-0113-82	22	p3644	N84-33102
AF-AFOSR-0116-81	01	p0136	N84-10894
	16	p2550	N84-26364
	19	p3115	N84-29791
AF-AFOSR-0116-83	10	p1496	N84-19789
AF-AFOSR-0119-82	05	p0674	N84-14428
AF-AFOSR-0119-83	05	p0853	N84-14295
AF-AFOSR-0120-83	24	p3967	N84-35121
AF-AFOSR-0122-81	04	p0546	N84-13596
	04	p0590	N84-13898
	05	p0690	N84-14532
	05	p0739	N84-14854
	06	p0899	N84-15835
	09	p1383	N84-19035
	09	p1384	N84-19038
	10	p1573	N84-20310
	17	p2758	N84-27507
AF-AFOSR-0123-79	08	p1200	N84-17822
AF-AFOSR-0125-81	18	p2810	N84-27841
AF-AFOSR-0126-79	05	p0753	N84-14940
	09	p1396	N84-19115
AF-AFOSR-0126-82	10	p1579	N84-20344
AF-AFOSR-0126-83	15	p2257	N84-24560
AF-AFOSR-0127-79	05	p0735	N84-14825
AF-AFOSR-0127-82	05	p0734	N84-14819
AF-AFOSR-0127-83	15	p2257	N84-24559
AF-AFOSR-0128-81	16	p2497	N84-26024
AF-AFOSR-0128-82	09	p1390	N84-19078
AF-AFOSR-0130-79	03	p0379	N84-12467
AF-AFOSR-0130-81	05	p0674	N84-14430
AF-AFOSR-0130-82	09	p1314	N84-18589
AF-AFOSR-0132-82	10	p1498	N84-19788
AF-AFOSR-0133-80	14	p2150	N84-23882
AF-AFOSR-0133-81	05	p0713	N84-14673
AF-AFOSR-0133-83	23	p3742	N84-33721
AF-AFOSR-0134-79	10	p1575	N84-20323
	11	p1750	N84-21420
	11	p1750	N84-21422
AF-AFOSR-0134-81	05	p0627	N84-14124
AF-AFOSR-0135-79	11	p1663	N84-20850
AF-AFOSR-0135-82	08	p1219	N84-17954
	19	p3093	N84-29645
AF-AFOSR-0136-82	05	p0680	N84-14467
AF-AFOSR-0137-83	24	p3936	N84-34926
AF-AFOSR-0142-81	09	p1332	N84-18695
AF-AFOSR-0142-83	22	p3663	N84-33219
AF-AFOSR-0143-82	09	p1332	N84-18694
AF-AFOSR-0144-82	08	p1202	N84-17839
AF-AFOSR-0145-81	24	p3890	N84-34632
AF-AFOSR-0145-83	24	p3962	N84-35088
AF-AFOSR-0146-82	15	p2400	N84-25400
AF-AFOSR-0146-83	24	p3900	N84-34698
AF-AFOSR-0147-82	10	p1571	N84-20292
AF-AFOSR-0148-80	08	p1158	N84-17539
AF-AFOSR-0148-82	11	p1695	N84-21059
AF-AFOSR-0149-83	19	p3068	N84-29463
AF-AFOSR-0150-82	01	p0044	N84-10281
AF-AFOSR-0150-83	22	p3646	N84-33119
AF-AFOSR-0151-80	05	p0674	N84-14432
AF-AFOSR-0152-80	13	p2021	N84-23107
AF-AFOSR-0152-81	17	p2754	N84-27478
AF-AFOSR-0152-82	08	p1170	N84-17624
AF-AFOSR-0153-80	05	p0667	N84-14386
AF-AFOSR-0154-82	24	p3959	N84-35069
AF-AFOSR-0155-80	16	p2547	N84-26345
AF-AFOSR-0158-80	09	p1365	N84-18913
	19	p3095	N84-29657
AF-AFOSR-0159-82	05	p0648	N84-14284
AF-AFOSR-0160-80	09	p1315	N84-18592
AF-AFOSR-0160-82	06	p0888	N84-15772
AF-AFOSR-0164-81	09	p1395	N84-19113
AF-AFOSR-0164-82	01	p0066	N84-10431
AF-AFOSR-0166-80	19	p3101	N84-29699
AF-AFOSR-0166-82	10	p1569	N84-20276
AF-AFOSR-0166-83	23	p3825	N84-34258
AF-AFOSR-0167-80	17	p2619	N84-26762
AF-AFOSR-0167-81	09	p1332	N84-18696
AF-AFOSR-0167-82	11	p1718	N84-21208
AF-AFOSR-0168-82	24	p3909	N84-34759
AF-AFOSR-0169-81	03	p0360	N84-12344
AF-AFOSR-0169-83	23	p3825	N84-34257
AF-AFOSR-0170-80	01	p0132	N84-10666
	11	p1713	N84-21169
AF-AFOSR-0170-81	13	p2043	N84-23254
AF-AFOSR-0171-81	19	p3008	N84-29070
AF-AFOSR-0171-82	08	p1157	N84-17536
AF-AFOSR-0172-81	05	p0736	N84-14835
	09	p1384	N84-19042
AF-AFOSR-0172-82	13	p1959	N84-22732
AF-AFOSR-0173-80	14	p2222	N84-24333
	08	p1124	N84-17304
AF-AFOSR-0174-83	24	p3962	N84-35089
AF-AFOSR-0175-80	08	p1218	N84-17950
AF-AFOSR-0175-82	05	p0734	N84-14818
AF-AFOSR-0176-80	01	p0131	N84-10857
	22	p3594	N84-32758
	22	p3594	N84-32759
AF-AFOSR-0176-82	19	p3089	N84-29614
AF-AFOSR-0177-81	05	p0653	N84-14294
AF-AFOSR-0177-83	18	p2880	N84-26283
AF-AFOSR-0178-82	10	p1571	N84-20296
AF-AFOSR-0179-81	06	p0889	N84-15776
AF-AFOSR-0181-82	02	p0231	N84-11517
	20	p3153	N84-30024
AF-AFOSR-0183-83	20	p3292	N84-30901
AF-AFOSR-0185-80	16	p2491	N84-25983
	16	p2492	N84-25984
AF-AFOSR-0186-80	13	p1989	N84-22915
AF-AFOSR-0186-82	06	p0806	N84-15250
AF-AFOSR-0187-81	01	p0153	N84-11008
AF-AFOSR-0188-81	08	p1150	N84-17484
AF-AFOSR-0188-82	05	p0632	N84-14151
AF-AFOSR-0189-82	24	p3953	N84-35034
AF-AFOSR-0189-83	24	p3897	N84-34677
AF-AFOSR-0190-80	02	p0273	N84-11785
	02	p0273	N84-11787
	03	p0424	N84-12771
AF-AFOSR-0190-81	08	p1218	N84-17948
	19	p3085	N84-29578
AF-AFOSR-0192-80	05	p0734	N84-14821
AF-AFOSR-0192-81	09	p1382	N84-19025
AF-AFOSR-0193-81	06	p0901	N84-15845
AF-AFOSR-0194-82	05	p0693	N84-14548
AF-AFOSR-0196-80	24	p3952	N84-35029
AF-AFOSR-0197-81	08	p1215	N84-17927
AF-AFOSR-0198-81	01	p0134	N84-10677
	06	p0901	N84-15846
	08	p1218	N84-17946
	08	p1218	N84-17947
	08	p1219	N84-17958
	09	p1378	N84-18999
	19	p3082	N84-29562
	19	p3089	N84-29613
	22	p3646	N84-33117
	23	p3818	N84-34209
AF-AFOSR-0198-82	05	p0649	N84-14267
AF-AFOSR-0200-83	09	p1373	N84-18963
AF-AFOSR-0201-82	06	p0873	N84-15683
AF-AFOSR-0202-81	10	p1518	N84-19935
AF-AFOSR-0203-82	06	p0843	N84-15502
AF-AFOSR-0203-83	16	p2558	N84-26412
AF-AFOSR-0204-80	08	p1219	N84-17955
AF-AFOSR-0204-82	06	p0782	N84-15125
AF-AFOSR-0204-83	21	p3436	N84-31799
	21	p3436	N84-31800
AF-AFOSR-0205-81	08	p1212	N84-17904
	08	p1223	N84-17986
	08	p1240	N84-18105
AF-AFOSR-0210-81	13	p2020	N84-23098
AF-AFOSR-0211-82	09	p1396	N84-19121
AF-AFOSR-0212-80	08	p1209	N84-17887
	08	p1211	N84-17902
	08	p1240	N84-18104
	09	p1404	N84-19176
	19	p3085	N84-29579
	19	p3115	N84-29795
	19	p3116	N84-29797
	24	p3947	N84-34992
	24	p3969	N84-35130
AF-AFOSR-0213-81	08	p1099	N84-17146
AF-AFOSR-0213-82	09	p1316	N84-18597
AF-AFOSR-0214-81	09	p1309	N84-18557
AF-AFOSR-0215-82	09	p1314	N84-18584
AF-AFOSR-0216-82	10	p1510	N84-19885
AF-AFOSR-0216-83	18	p2879	N84-28281
AF-AFOSR-0217-82	05	p0692	N84-14546
AF-AFOSR-0220-82	13	p1930	N84-22554
AF-AFOSR-0221-80	06	p0888	N84-15771
AF-AFOSR-0221-81	08	p1219	N84-17953
	09	p1384	N84-19039
AF-AFOSR-0223-81	05	p0674	N84-14431
	17	p2663	N84-26992
AF-AFOSR-0226-82	05	p0753	N84-14939
AF-AFOSR-0227-81	05	p0693	N84-14549
AF-AFOSR-0228-80	16	p2550	N84-26365
AF-AFOSR-0228-83	20	p3273	N84-30776
	21	p3386	N84-31486
	24	p3898	N84-34683
	24	p3951	N84-35017
AF-AFOSR-0229-80	13	p1981	N84-22861
AF-AFOSR-0230-80	13	p1989	N84-22914
AF-AFOSR-0230-81	07	p1054	N84-16827
AF-AFOSR-0230-82	08	p1238	N84-18091
AF-AFOSR-0231-82	03	p0452	N84-12974
AF-AFOSR-0232-82	09	p1404	N84-19170
	10	p1562	N84-20234
	10	p1562	N84-20235
	11	p1708	N84-21131
	22	p3640	N84-33080
AF-AFOSR-0234-82	09	p1379	N84-19007
AF-AFOSR-0235-81	01	p0156	N84-11026
AF-AFOSR-0236-82	23	p3754	N84-33797
AF-AFOSR-0238-82	01	p0050	N84-10324
	24	p3888	N84-34621
AF-AFOSR-0239-80	19	p2985	N84-28913
AF-AFOSR-0240-81	05	p0747	N84-14903
AF-AFOSR-0241-82	20	p3184	N84-30232
AF-AFOSR-0243-80	24	p3950	N84-35012
AF-AFOSR-0243-81	24	p3963	N84-35096
AF-AFOSR-0243-82	05	p0692	N84-14547
AF-AFOSR-0244-81	06	p0892	N84-15794
AF-AFOSR-0245-80	09	p1382	N84-19028
AF-AFOSR-0246-82	08	p1158	N84-17537
AF-AFOSR-0248-81	05	p0648	N84-14259
AF-AFOSR-0248-82	14	p2224	N84-24350
AF-AFOSR-0249-82	10	p1579	N84-20343
AF-AFOSR-0250-80	11	p1713	N84-21171
	11	p1714	N84-21174
AF-AFOSR-0250-82	19	p3035	N84-29254
AF-AFOSR-0250-83	22	p3648	N84-33131
AF-AFOSR-0251-81	20	p3196	N84-30297
AF-AFOSR-0251-83	14	p2231	N84-24381
AF-AFOSR-0253-82	11	p1641	N84-20730
AF-AFOSR-0255-82	02	p0272	N84-11777
	02	p0272	N84-11782
	02	p0279	N84-11826
	09	p1404	N84-19171
	11	p1750	N84-21421
AF-AFOSR-0255-83	14	p2199	N84-24194
AF-AFOSR-0256-80	19	p3036	N84-29256
AF-AFOSR-0257-80	16	p2565	N84-26459
AF-AFOSR-0257-82	02	p0293	N84-11923
AF-AFOSR-0258-82	18	p2925	N84-28547
AF-AFOSR-0262-80	11	p1730	N84-21286
AF-AFOSR-0263-83	15	p2379	N84-25279
AF-AFOSR-0265-80	01	p0012	N84-10075
	05	p0631	N84-14150
	13	p1951	N84-22686
AF-AFOSR-0266-81	11	p1668	N84-20886
AF-AFOSR-0267-80	10	p1422	N84-19299
AF-AFOSR-0267-82	22	p3663	N84-33223
AF-AFOSR-0271-80	03	p0433	N84-12838
AF-AFOSR-0273-82	19	p3036	N84-29258
AF-AFOSR-0275-82	01	p0129	N84-10841
	05	p0734	N84-14822
	24	p3951	N84-35021
	24	p3952	N84-35022
AF-AFOSR-0277-82	08	p1228	N84-18027
AF-AFOSR-0281-82	22	p3664	N84-33228
AF-AFOSR-0284-80	03	p0452	N84-12978
AF-AFOSR-0285-82	09	p1345	N84-18791
AF-AFOSR-0288-80	01	p0152	N84-11001
AF-AFOSR-0289-82	01	p0141	N84-10926
AF-AFOSR-0292-82	10	p1564	N84-20245
AF-AFOSR-0300-82	20	p3259	N84-30685
AF-AFOSR-0301-82	10	p1468	N84-19586
AF-AFOSR-0303-82	10	p1564	N84-20246
AF-AFOSR-0304-82	08	p1215	N84-17928
AF-AFOSR-0305-82	24	p3911	N84-34770
AF-AFOSR-0307-82	09	p1327	N84-18667
AF-AFOSR-0315-82	10	p1571	N84-20294
AF-AFOSR-0316-82	15	p2257	N84-24557
	15	p2302	N84-24816
	17	p2623	N84-26791
	18	p2851	N84-28101
AF-AFOSR-0318-83	19	p3082	N84-29561
AF-AFOSR-0321-82	09	p1375	N84-18981
AF-AFOSR-0323-82	21	p3443	N84-31848
AF-AFOSR-0326-82	09	p1378	N84-19003
	19	p3090	N84-29617
AF-AFOSR-0329-82	20	p3281	N84-30831
	20	p3291	N84-30894
AF-AFOSR-0335-82	21	p3461	N84-31947
AF-AFOSR-0340-82	05	p0733	N84-14815
	05	p0739	N84-14856
	10	p1573	N84-20312
AF-AFOSR-0343-82	01	p0072	N84-10471
	09	p1376	N84-18989
AF-AFOSR-0344-82	09	p1306	N84-18539
AF-AFOSR-0345-82	24	p3936	N84-34918
AF-AFOSR-0351-82	13	p2033	N84-23184
AF-AFOSR-0355-83	19	p3079	N84-29535
AF-AFOSR-0361-83	19	p2982	N84-28896
AF-AFOSR-0490-83	01	p0129	N84-10842
AF-AFOSR-0600-83	01	p0011	N84-10071
AF-AFOSR-0709-82	01	p0044	N84-10283
AF-AFOSR-0925-82	08	p1123	N84-17303
AF-AFOSR-2962-76	01	p0028	N84-10178
AF-AFOSR-3137-77	01	p0141	N84-10929
AF-AFOSR-3236-77	01	p0092	N84-10600
AF-AFOSR-3271-77	06	p0895	N84-15812

	08	p1240	N84-18106
AF-AFOSR-3275-77	05	p0680	N84-14469
AF-AFOSR-3328-77	09	p1323	N84-18645
AF-AFOSR-3337-77	02	p0175	N84-11149
AF-AFOSR-3340-77	01	p0105	N84-10683
AF-AFOSR-3405-77	01	p0128	N84-10837
AF-AFOSR-3426-77	22	p3664	N84-33228
AF-AFOSR-3434-77	02	p0294	N84-11928
AF-AFOSR-3439-77	05	p0648	N84-14263
AF-AFOSR-3467-77	02	p0249	N84-11629
AF-AFOSR-3471-78	05	p0653	N84-14296
AF-AFOSR-3519-78	08	p1218	N84-17951
AF-AFOSR-3530-78	05	p0752	N84-14935
AF-AFOSR-3533-78	05	p0744	N84-14885
AF-AFOSR-3534-78	11	p1695	N84-21057
AF-AFOSR-3542-78	02	p0280	N84-11836
AF-AFOSR-3550-78	09	p1376	N84-18987
AF-AFOSR-3574-78	02	p0296	N84-11938
	09	p1397	N84-19125
AF-AFOSR-3581-78	09	p1365	N84-18910
	19	p3072	N84-29487
AF-AFOSR-3582-78	22	p3638	N84-33061
AF-AFOSR-3602-78	03	p0417	N84-12728
AF-AFOSR-3611-78	01	p0156	N84-11025
AF-AFOSR-3633-78	08	p1104	N84-17179
AF-AFOSR-3649-78	05	p0743	N84-14881
AF-AFOSR-3657-78	18	p2899	N84-28393
AF-AFOSR-3665-78	02	p0294	N84-11930
AF-AFOSR-3672-78	09	p1280	N84-18358
AF-AFOSR-3674-78	19	p3004	N84-29038
AF-AFOSR-3675-78	18	p2876	N84-28259
AF-AFOSR-3695-78	02	p0281	N84-11844
	06	p0900	N84-15842
	09	p1299	N84-18493
AF-AFOSR-3705-78	09	p1287	N84-18405
AF-AFOSR-3707-78	13	p2036	N84-23209
AF-AFOSR-3708-78	22	p3664	N84-33225
AF-AFOSR-6475	11	p1613	N84-20555
AF-AFOSR-0258-82	03	p0428	N84-12808
AF-AFOSR-3426-77	02	p0298	N84-11955
AF-F04701-82-C-0083	08	p1115	N84-17254
AF-78-3514	09	p1381	N84-19022
AF-80-0185	09	p1314	N84-18588
AF-81-0051	11	p1628	N84-20655
AF-81-0086	10	p1572	N84-20298
AF-81-0191	12	p1811	N84-21808
AF-81-0198	08	p1218	N84-17945
AF-82-0165	09	p1278	N84-18342
AF-82-0189	09	p1382	N84-19023
AF-82-0258	08	p1218	N84-17949
AF-83-0019	10	p1597	N84-20466
AF-83-0139	11	p1713	N84-21172
AFOSR ISSA 82-0017	05	p0648	N84-14261
AFOSR ISSA 82-00029	03	p0433	N84-12834
AFOSR-MIPR-81-0004	13	p1946	N84-22656
AFOSR-MIPR-82-00010	05	p0632	N84-14152
AFOSR-NTP-0638	13	p1944	N84-22639
	13	p1945	N84-22645
AGREEMENT-2057/072-XR/AERO			
	07	p0960	N84-16224
AGRISTARS PROJ. IT-E2-04233	07	p0986	N84-16404
AI&DS PROJ. 1026	09	p1384	N84-19037
AID-DAN-5538-G-SS-1023-00	09	p1291	N84-18427
	09	p1291	N84-18428
AID/C-1433	09	p1291	N84-18428
AID/TA-C-1433	09	p1291	N84-18427
ARF-3905	15	p2365	N84-25192
ARO-20-78	07	p1039	N84-16741
ARPA ORDER 2496	06	p0824	N84-15375
ARPA ORDER 2551	03	p0407	N84-12666
	06	p0878	N84-15713
	06	p0878	N84-15714
ARPA ORDER 2843	07	p1009	N84-16546
ARPA ORDER 2897	22	p3624	N84-32961
ARPA ORDER 3011	03	p0452	N84-12975
	03	p0452	N84-12976
	03	p0452	N84-12977
ARPA ORDER 3045	04	p0521	N84-13423
	06	p0825	N84-15379
	07	p0993	N84-16437
	10	p1481	N84-19675
	13	p2029	N84-23154
	24	p3895	N84-34664
ARPA ORDER 3345	01	p0140	N84-10919
	06	p0909	N84-15903
ARPA ORDER 3384	14	p2242	N84-24461
	15	p2328	N84-24979
	15	p2328	N84-24980
	15	p2328	N84-24981
ARPA ORDER 3391	03	p0360	N84-12343
ARPA ORDER 3396	16	p2542	N84-26316
ARPA ORDER 3414	02	p0277	N84-11818
	05	p0726	N84-14765
ARPA ORDER 3456	01	p0147	N84-10963
ARPA ORDER 3460	09	p1371	N84-18955
ARPA ORDER 3493	05	p0753	N84-14942
	05	p0754	N84-14943
ARPA ORDER 3503	15	p2408	N84-25454
ARPA ORDER 3570	14	p2242	N84-24460
ARPA ORDER 3584-7	02	p0184	N84-11195
ARPA ORDER 3597	19	p3072	N84-29493
ARPA ORDER 3654	23	p3701	N84-33456
ARPA ORDER 3655	15	p2282	N84-24703
	15	p2282	N84-24704
ARPA ORDER 3673	04	p0521	N84-13421
	15	p2321	N84-24937
ARPA ORDER 3674	09	p1299	N84-18490
ARPA ORDER 3706	03	p0451	N84-12969
	06	p0922	N84-15997
ARPA ORDER 3710	07	p1084	N84-17050
ARPA ORDER 3751	05	p0653	N84-14291
	09	p1283	N84-18380
ARPA ORDER 3771	09	p1400	N84-19143
	15	p2270	N84-24830
	15	p2388	N84-25327
ARPA ORDER 3793	09	p1302	N84-18512
ARPA ORDER 3797	01	p0072	N84-10472
	15	p2329	N84-24987
	24	p3898	N84-34681
ARPA ORDER 3829	04	p0579	N84-13817
ARPA ORDER 3855	09	p1299	N84-18491
ARPA ORDER 3862	10	p1525	N84-19991
ARPA ORDER 3923	09	p1321	N84-18627
	22	p3601	N84-32808
ARPA ORDER 3925	20	p3184	N84-30233
ARPA ORDER 3985	03	p0349	N84-12266
ARPA ORDER 4031	08	p1151	N84-17491
	12	p1812	N84-21813
	19	p3016	N84-29119
	19	p3073	N84-29495
ARPA ORDER 4042	04	p0563	N84-13710
ARPA ORDER 4045	01	p0080	N84-10517
ARPA ORDER 4099	01	p0142	N84-10932
	23	p3822	N84-34240
ARPA ORDER 4100	04	p0526	N84-13457
	15	p2329	N84-24986
ARPA ORDER 4102	05	p0754	N84-14944
ARPA ORDER 4109	03	p0360	N84-12340
ARPA ORDER 4128	10	p1454	N84-19496
	19	p3101	N84-29701
ARPA ORDER 4147	05	p0675	N84-14434
ARPA ORDER 4148	09	p1383	N84-18905
ARPA ORDER 4152	21	p3444	N84-31850
ARPA ORDER 4238	19	p2983	N84-28782
ARPA ORDER 4250	09	p1301	N84-18504
ARPA ORDER 4270	08	p1146	N84-17456
ARPA ORDER 4272	05	p0731	N84-14802
ARPA ORDER 4288	19	p3042	N84-29303
ARPA ORDER 4295	14	p2105	N84-23625
ARPA ORDER 4302	12	p1836	N84-21970
ARPA ORDER 4305	18	p2833	N84-27986
ARPA ORDER 4344	09	p1284	N84-18385
ARPA ORDER 4395	08	p1233	N84-18057
	11	p1660	N84-20832
	11	p1729	N84-21282
	12	p1813	N84-21820
	12	p1902	N84-22386
	14	p2222	N84-24332
	14	p2228	N84-24362
	14	p2229	N84-24365
	15	p2410	N84-25466
	16	p2555	N84-26394
	16	p2556	N84-26396
ARPA ORDER 4397	17	p2727	N84-27359
ARPA ORDER 4406	06	p0878	N84-15714
ARPA ORDER 4427	12	p1913	N84-22466
ARPA ORDER 4435	06	p0878	N84-15714
ARPA ORDER 4487	24	p3898	N84-34687
ARPA ORDER 4522	23	p3754	N84-33798
	24	p3909	N84-34760
ARPA ORDER 4526	09	p1283	N84-18380
ARPA ORDER 4550	04	p0612	N84-14038
ARPA ORDER 4576	10	p1479	N84-19667
ARPA ORDER 4606	17	p2619	N84-26759
ARPA ORDER 4665	12	p1812	N84-21810
	14	p2225	N84-24351
ARPA ORDER 4733	02	p0299	N84-11959
	05	p0753	N84-14936
	14	p2242	N84-24462
ARPA ORDER 4941	21	p3391	N84-31520
ARPA ORDER 4959	19	p3081	N84-29548
AR00001	09	p1276	N84-18328
AS3-22543	09	p1290	N84-18419
AT(0-4-3)-34	04	p0601	N84-13971
AT(29-2)-474	03	p0409	N84-12673
A01/75/K	18	p2830	N84-27970
A76/K/072	02	p0222	N84-11453
A76/K/104	12	p1899	N84-22370
A76/KL/039	12	p1790	N84-21676
A76/KM/030	12	p1900	N84-22377
A77/KL/052	02	p0228	N84-11495
	12	p1821	N84-21871
A78/K/072	12	p1900	N84-22372
A78/KL/009	12	p1814	N84-21825
A78/KLU/065	02	p0269	N84-11759
A79/KL/130	12	p1821	N84-21873
	20	p3199	N84-30316
A79/KL/131	20	p3199	N84-30315
A79/KL/151	19	p3105	N84-29730
A79/KL/152	12	p1808	N84-21790
A79/KM/134	20	p3182	N84-30213
A80/K/112	02	p0269	N84-11765
A80/KM/003	12	p1900	N84-22375
	12	p1900	N84-22376
A80/KM/066	12	p1804	N84-21761
A80/KM/109	12	p1804	N84-21759
A81/KL/039	12	p1803	N84-21752
A81/KL/040	18	p2915	N84-28487
A81/KLU/051	18	p2790	N84-27704
A81/KM/009	17	p2763	N84-27552
A82/K/100	21	p3458	N84-31940
A82/K/145	12	p1900	N84-22371
A82/KM/005	12	p1900	N84-22374
A82/KM/030	02	p0283	N84-11856
	12	p1827	N84-21911
	18	p2854	N84-28121
	18	p2922	N84-28532
A83/KM/001	20	p3313	N84-31043
BGC-2130/14	07	p1005	N84-16518
BMFT-BV-14-B7-74	05	p0635	N84-14176
BMFT-FKZ-01-QS-103/3	23	p3765	N84-33666
BMFT-Q1-ON-048	09	p1262	N84-18239
BMFT-REF-01-D00/74A	05	p0635	N84-14176
	05	p0639	N84-14201
BMFT-RV-14-B7/74	05	p0639	N84-14201
BMFT-RV-14-B8/74	03	p0473	N84-13112
	03	p0474	N84-13117
BMFT-01-ON-088	09	p1262	N84-18238
BMFT-01-QV-059-ZA/SN/SLN-7910			
	18	p2819	N84-27900
BMFT-01-XO-078-AK/RT/WRT-2076			
	17	p2664	N84-26994
BMFT-01-ZG-098-ZK/NT/NTS-1016			
	10	p1472	N84-19614
BMFT-03-VM-018-A/C-027	08	p1126	N84-17322
BMFT-321/7591/RGB-8001	15	p2360	N84-25161
BMI-SR-271	16	p2485	N84-25939
BMVG-FOA-T/RF31/81005/82302			
	15	p2269	N84-24627
	20	p3172	N84-30144
BMVG-T/RF-37-A-0003-A-13003	15	p2318	N84-24913
B99-QAXR	20	p3262	N84-30697
CEC-B10-F-495-I	07	p1073	N84-16974
CHI PROJ. 793-R	08	p1238	N84-18095
CHI PROJ. 8113-R	22	p3669	N84-33255
	22	p3669	N84-33256
CNES-78-212	09	p1262	N84-18238
CNES-79-212	09	p1262	N84-18238
CNES-80-212	09	p1262	N84-18238
CNES-81-212	09	p1262	N84-18238
CNES-82-212	09	p1262	N84-18238
CNES-214	05	p0635	N84-14177
C93/293	06	p0843	N84-15500
DA PROJ. A3E-62777-A-879	24	p3894	N84-34658
DA PROJ. C22-3	12	p1907	N84-22425
DA PROJ. F43-400	23	p3815	N84-34193
DA PROJ. F58-524	14	p2185	N84-24095
DA PROJ. F59-553	15	p2371	N84-25227
DA PROJ. F63-522	15	p2383	N84-25291
DA PROJ. F65-559	20	p3131	N84-29882
DA PROJ. F71-541	15	p2297	N84-24786
DA PROJ. IT1-61102-BH-57	22	p3560	N84-32541
	23	p3747	N84-33754
	24	p3897	N84-34679
DA PROJ. M00-95	10	p1553	N84-20179
DA PROJ. M01-00-PN	13	p1979	N84-22846
DA PROJ. RR0-0001	07	p1041	N84-16750
DA PROJ. RR0-1109	14	p2151	N84-23886
	18	p2931	N84-28584
DA PROJ. RR0-1301	18	p2811	N84-27843
DA PROJ. RR0-4204	03	p0416	N84-12721
DA PROJ. RR0-4209	15	p2384	N84-25299
DA PROJ. R01-109	23	p3822	N84-34235
DA PROJ. R02-303	14	p2158	N84-23931
DA PROJ. R12-99-OS	15	p2336	N84-25026
DA PROJ. SRO-100	18	p2921	N84-28523
DA PROJ. S99-QAXH	21	p3400	N84-31570
DA PROJ. W05-24	07	p1008	N84-16534
DA PROJ. 1A1-28150-1A-1A	17	p2623	N84-26786
DA PROJ. 1E1-62777-A-878	04	p0483	N84-13179
DA PROJ. 1L1-1101-A-91A	01	p0108	N84-10703
DA PROJ. 1L1-6211-AH-71	06	p0918	N84-15964
DA PROJ. 1L1-61101-A-71A	13	p2029	N84-23157
DA PROJ. 1L1-61101-A-91-A	15	p2410	N84-25467
	19	p3089	N84-29609
DA PROJ. 1L1-61101-A-91A	02	p0209	N84-11368
	03	p0371	N84-12417
	06	p0847	N84-15524

	10	p1577	N84-20331
	10	p1585	N84-20391
	11	p1638	N84-20708
	14	p2142	N84-23844
DA PROJ. 1L1-61101-AH-45	20	p3195	N84-30294
	21	p3325	N84-31095
DA PROJ. 1L1-61102-A-31B	17	p2768	N84-27574
DA PROJ. 1L1-61102-A-71A	05	p0648	N84-14265
DA PROJ. 1L1-61102-AH-42	02	p0285	N84-11865
	03	p0389	N84-12535
	07	p1054	N84-16828
	21	p3422	N84-31707
DA PROJ. 1L1-61102-AH-43	01	p0004	N84-10027
	01	p0077	N84-10505
	01	p0079	N84-10516
	02	p0203	N84-11323
	03	p0320	N84-12094
	03	p0349	N84-12267
	03	p0371	N84-12420
	05	p0661	N84-14346
	05	p0680	N84-14472
	06	p0783	N84-15127
	06	p0801	N84-15221
	06	p0812	N84-15285
	08	p1159	N84-17546
	08	p1164	N84-17579
	09	p1252	N84-18176
	11	p1629	N84-20658
	15	p2303	N84-24821
	16	p2485	N84-25940
	16	p2502	N84-26059
	16	p2502	N84-26061
	16	p2547	N84-26347
	17	p2668	N84-27011
	19	p3036	N84-29260
	20	p3162	N84-30079
	23	p3747	N84-33752
DA PROJ. 1L1-61102-AH-44	05	p0679	N84-14465
	18	p2846	N84-28073
	23	p3732	N84-33652
DA PROJ. 1L1-61102-AH-45	06	p0798	N84-15199
	08	p1103	N84-17175
	10	p1464	N84-19565
	13	p1932	N84-22568
	15	p2343	N84-25065
	16	p2439	N84-25647
	18	p2788	N84-27694
	18	p2809	N84-27835
	19	p2957	N84-28743
DA PROJ. 1L1-61102-AH-48	01	p0062	N84-10408
	03	p0361	N84-12352
	07	p0993	N84-16439
DA PROJ. 1L1-61102-AH-51	20	p3161	N84-30076
DA PROJ. 1L1-61102-AH-60	08	p1170	N84-17625
	14	p2145	N84-23857
DA PROJ. 1L1-61102-B-53A	05	p0708	N84-14642
	17	p2734	N84-27380
DA PROJ. 1L1-61102-BH-57	06	p0923	N84-16001
	09	p1279	N84-18349
	19	p3089	N84-29610
DA PROJ. 1L1-61102-H-45	18	p2852	N84-28112
DA PROJ. 1L1-61122-AH-60	04	p0493	N84-13238
DA PROJ. 1L1-62105-AH-84	01	p0050	N84-10320
	02	p0188	N84-11222
	10	p1467	N84-19563
DA PROJ. 1L1-62111-AH-71	05	p0747	N84-14906
DA PROJ. 1L1-62122-AH-60	17	p2619	N84-26758
DA PROJ. 1L1-62202-AH-85	08	p1104	N84-17181
DA PROJ. 1L1-62209-AH-76	08	p1103	N84-17176
	11	p1603	N84-20497
DA PROJ. 1L1-62601-AH-91	09	p1283	N84-18377
	19	p2993	N84-28969
	20	p3153	N84-30020
DA PROJ. 1L1-62603-AH-18	08	p1152	N84-17499
	17	p2760	N84-27526
DA PROJ. 1L1-62618-AH-80	01	p0084	N84-10547
	03	p0338	N84-12194
	03	p0418	N84-12731
	03	p0420	N84-12744
	05	p0627	N84-14125
	05	p0627	N84-14126
	07	p0947	N84-16148
	08	p1099	N84-17150
	09	p1253	N84-18177
	10	p1420	N84-19289
	10	p1491	N84-19753
	11	p1653	N84-20791
	14	p2101	N84-23610
	16	p2547	N84-26344
	17	p2610	N84-26709
	17	p2758	N84-27506
	18	p2789	N84-27699
	19	p3023	N84-29173
	22	p3531	N84-32359
	22	p3532	N84-32360
	22	p3532	N84-32361

DA PROJ. 1L1-62622-A-552	01	p0106	N84-10686
DA PROJ. 1L1-62701-AH-92	05	p0747	N84-14907
	06	p0824	N84-15370
DA PROJ. 1L1-62705-AH-94	04	p0526	N84-13459
DA PROJ. 1L1-62706-A-553	11	p1637	N84-20704
	16	p2555	N84-26395
DA PROJ. 1L1-62706-A-554	05	p0735	N84-14827
DA PROJ. 1L1-62709-DH-95	01	p0049	N84-10317
DA PROJ. 1L1-62715-A-042	04	p0589	N84-13893
DA PROJ. 1L1-62720-D-048	18	p2811	N84-27844
DA PROJ. 1L1-62723-AH-98	19	p2999	N84-29005
DA PROJ. 1L1-62733-AH-20	05	p0658	N84-14325
	08	p1216	N84-17933
DA PROJ. 1L1-161101-A-91A	03	p0444	N84-12919
DA PROJ. 1L2-62209-AH-76	01	p0094	N84-10609
	01	p0094	N84-10610
	10	p1549	N84-20155
DA PROJ. 1L2-63102-D-071	22	p3545	N84-32440
DA PROJ. 1L4-63726-DK-41	18	p2798	N84-27754
DA PROJ. 1L6-626	17	p2654	N84-26975
DA PROJ. 1L6-62616-AH-77	05	p0667	N84-14384
	09	p1302	N84-18513
DA PROJ. 1L7-62733-AH-20	10	p1502	N84-19817
	20	p3162	N84-30078
	21	p3413	N84-31642
DA PROJ. 1L7-63702-DG-11	04	p0486	N84-13196
DA PROJ. 1M4-63615-DE-76	01	p0029	N84-10184
DA PROJ. 1M4-63721-DJ-30	09	p1332	N84-18699
DA PROJ. 1T1-61101-A-91A	17	p2618	N84-26757
DA PROJ. 1T1-61102-AH-51	01	p0052	N84-10337
	04	p0509	N84-13337
DA PROJ. 1T1-61102-BH-57	01	p0136	N84-10892
	01	p0152	N84-11002
	03	p0352	N84-12291
	03	p0361	N84-12351
	03	p0420	N84-12746
	04	p0507	N84-13320
	05	p0697	N84-14576
	06	p0902	N84-15853
	07	p1062	N84-16885
	08	p1217	N84-17943
	09	p1327	N84-18665
	09	p1332	N84-18700
	09	p1333	N84-18702
	09	p1333	N84-18703
	09	p1377	N84-18993
	09	p1396	N84-19120
	10	p1479	N84-19663
	10	p1479	N84-19665
	10	p1525	N84-19992
	11	p1647	N84-20767
	12	p1861	N84-22123
	13	p2011	N84-23046
	14	p2179	N84-24052
	14	p2248	N84-24499
	16	p2526	N84-26216
	16	p2560	N84-26425
	17	p2626	N84-26805
	17	p2627	N84-26809
	17	p2728	N84-27361
	18	p2789	N84-27703
	18	p2837	N84-28008
	18	p2866	N84-28198
	18	p2941	N84-28651
	18	p2941	N84-28652
	19	p3006	N84-29054
	19	p3104	N84-29719
	20	p3228	N84-30513
	20	p3245	N84-30597
	21	p3386	N84-31489
	21	p3391	N84-31519
	22	p3562	N84-32554
	22	p3611	N84-32879
	23	p3713	N84-33537
	23	p3718	N84-33569
	24	p3934	N84-34902
DA PROJ. 1T1-62105-AH-84	08	p1137	N84-17394
DA PROJ. 1T1-62720-D-048	10	p1470	N84-19601
DA PROJ. 1X4-63707-D-437	01	p0071	N84-10463
DA PROJ. 2Q1-61101-B-74F	21	p3459	N84-31942
DA PROJ. 2Q1-61102-B-74-D	24	p3936	N84-34915
	24	p3968	N84-35125
DA PROJ. 2Q1-61102-B-74-F	24	p3937	N84-34920
DA PROJ. 2Q1-61102-B-74D	08	p1216	N84-17932
DA PROJ. 2Q1-61102-B-74F	15	p2384	N84-25298
DA PROJ. 2Q1-62717-A-779	20	p3313	N84-31037
DA PROJ. 2Q1-62717-A-790	15	p2362	N84-25288
	21	p3386	N84-31492
DA PROJ. 2Q1-62722-A-791	10	p1498	N84-19790
	10	p1498	N84-19791
	10	p1554	N84-20184
	10	p1592	N84-20428
	11	p1620	N84-20606
	19	p3066	N84-29451
DA PROJ. 2Q2-62722-A-795	17	p2611	N84-26710
DA PROJ. 2Q2-63731-A-792	18	p2943	N84-28665

	20	p3262	N84-30696
	21	p3349	N84-31247
DA PROJ. 2Q2-63739-A-793	19	p3067	N84-29458
DA PROJ. 2Q2-63743-A-794	05	p0715	N84-14683
	05	p0719	N84-14712
	11	p1701	N84-21098
	11	p1702	N84-21101
	14	p2246	N84-24490
	14	p2247	N84-24491
DA PROJ. 2Q7-62722-A-765	03	p0459	N84-13020
DA PROJ. 3A1-61101-A-91C	10	p1545	N84-20129
DA PROJ. 3A1-61102-B-71P	15	p2378	N84-25274
DA PROJ. 3D30	06	p0909	N84-15903
DA PROJ. 3E1-16777-A-879	06	p0887	N84-15768
DA PROJ. 3E1-61102-BS-04	10	p1545	N84-20129
DA PROJ. 3E1-62720-A-835	18	p2877	N84-28270
	24	p3917	N84-34799
DA PROJ. 3E1-62773-A-819	12	p1868	N84-22173
DA PROJ. 3E1-62777-A-845	10	p1547	N84-20140
DA PROJ. 3E1-62777-A-878	01	p0117	N84-10760
	03	p0415	N84-12714
	03	p0417	N84-12726
	06	p0893	N84-15801
	12	p1867	N84-22170
	12	p1868	N84-22171
	15	p2378	N84-25273
	17	p2748	N84-27443
	19	p3065	N84-29448
	24	p3938	N84-34924
DA PROJ. 3E1-62777-A-879	01	p0114	N84-10737
	01	p0116	N84-10753
	05	p0713	N84-14669
	06	p0847	N84-15523
	06	p0887	N84-15769
	08	p1200	N84-17824
	10	p1548	N84-20145
	10	p1548	N84-20146
	12	p1868	N84-22173
	15	p2380	N84-25281
	15	p2380	N84-25284
	16	p2535	N84-26277
	19	p3066	N84-29452
	19	p3066	N84-29453
	19	p3066	N84-29454
	23	p3811	N84-34168
DA PROJ. 3E1-162777-A-879	06	p0887	N84-15766
DA PROJ. 3M1-61102-BS-01	17	p2740	N84-27396
DA PROJ. 3M1-61102-BS-10	03	p0414	N84-12708
	11	p1696	N84-21061
	16	p2538	N84-26293
	18	p2894	N84-28362
	22	p3630	N84-33005
DA PROJ. 3M1-61192-BS-10	07	p1042	N84-16758
DA PROJ. 3M1-62734-A-875	03	p0416	N84-12719
	06	p0890	N84-15780
	11	p1695	N84-21058
	15	p2380	N84-25282
DA PROJ. 3S1-62772-A-874	24	p3936	N84-34916
DA PROJ. 3T10	06	p0909	N84-15903
DA PROJ. 4AT-62719-AT-40	05	p0663	N84-14357
DA PROJ. 4A1-61101-A-91D	06	p0861	N84-15609
	08	p1177	N84-17671
DA PROJ. 4A1-61102-A-91-D	15	p2287	N84-24720
DA PROJ. 4A1-61102-AT-22	01	p0057	N84-10371
	12	p1804	N84-21760
DA PROJ. 4A1-61102-AT-23	18	p2818	N84-27893
DA PROJ. 4A1-61102-AT-24	07	p1040	N84-16746
	09	p1256	N84-18198
	09	p1350	N84-18818
DA PROJ. 4A1-61102-B-52C	08	p1143	N84-17438
	08	p1178	N84-17675
DA PROJ. 4A1-62707-A-855	16	p2510	N84-26107
DA PROJ. 4A1-62720-A-896	11	p1729	N84-21279
	13	p1974	N84-22810
	19	p3052	N84-29369
DA PROJ. 4A1-62731-AT-41	17	p2623	N84-26788
DA PROJ. 4A1-62781-AT-45	24	p3898	N84-34686
	24	p3942	N84-34959
DA PROJ. 4A6-65805-M-857	11	p1653	N84-20792
DA PROJ. 4A7-62707-A-855	19	p3041	N84-29297
	19	p3078	N84-29527
DA PROJ. 4A7-62707-AF-55	01	p0100	N84-10651
DA PROJ. 4A7-62720-A-896	12	p1919	N84-22500
DA PROJ. 4A7-62730-AT-42	07	p0986	N84-16384
	08	p1160	N84-17549
	08	p1191	N84-17762
	09	p1325	N84-18658
	09	p1382	N84-19026
	15	p2317	N84-24908
DA PROJ. 4A7-62731-AT-41	01	p0057	N84-10372
	21	p3465	N84-31971
	21	p3466	N84-31972
DA PROJ. 4A7-62781-AT-45	19	p3051	N84-29359
DA PROJ. 8H3-63304-D-215	01	p0096	N84-10625
	07	p0988	N84-16271
DA PROJ. 2054	17	p2611	N84-26714

DA PROJ. 2301	12	p1898	N84-22359
	18	p2846	N84-28070
DA PROJ. 2402	08	p1100	N84-17153
DA PROJ. 2418	13	p1961	N84-22740
DA PROJ. 3384	15	p2328	N84-24979
DA PROJ. 4600	03	p0361	N84-12347
DA PROJ. 4643	05	p0703	N84-14613
DA PROJ. 7670	03	p0461	N84-13037
DA PROJ. 7930	06	p0934	N84-16068
DA PROJ. 612105-2571	09	p1276	N84-18329
DA-ERO-78-G-006	15	p2384	N84-25298
DA-ERO-78-G-078	16	p2560	N84-26425
DA-ERO-79-G-0011	09	p1327	N84-18665
DA-ERO-79-G-0033	10	p1458	N84-19525
DAAB07-77-C-0375	15	p2413	N84-25486
DAAB07-78-A-6606	08	p1240	N84-18103
DAAB07-78-C-2922	03	p0440	N84-12891
	03	p0440	N84-12892
DAAB07-79-G-6231	21	p3385	N84-31480
DAAB07-82-C-J030	02	p0294	N84-11929
DAAB07-82-C-J071	05	p0747	N84-14907
DAAB07-82-C-J231	01	p0071	N84-10463
DAAB07-82-K-J015	02	p0301	N84-11976
DAAB07-83-C-K514	17	p2753	N84-27471
	17	p2753	N84-27475
	19	p3078	N84-29531
	19	p3078	N84-29532
	20	p3272	N84-30767
	20	p3272	N84-30768
	20	p3272	N84-30769
	20	p3272	N84-30770
	21	p3465	N84-31968
	22	p3641	N84-33082
	22	p3641	N84-33083
	22	p3641	N84-33084
	24	p3945	N84-34978
	24	p3945	N84-34980
	24	p3945	N84-34981
	24	p3945	N84-34982
	24	p3946	N84-34984
	24	p3946	N84-34985
	24	p3946	N84-34986
	24	p3947	N84-34993
	24	p3947	N84-34994
	24	p3947	N84-34995
	24	p3947	N84-34996
DAAB07-83-D-F058	10	p1481	N84-19679
	10	p1481	N84-19681
DAAD07-80-D-0206	17	p2734	N84-27380
DAAE07-81-C-4058	06	p0897	N84-15826
DAAE07-82-C-4017	19	p2993	N84-28969
DAAE07-82-C-4058	05	p0688	N84-14520
DAAE07-82-C-4063	18	p2921	N84-28522
DAAE07-82-M-9053	01	p0043	N84-10277
DAAE07-83-C-R040	14	p2155	N84-23910
DAAE07-83-M-R028	04	p0544	N84-13582
DAAE07-83-M-R040	12	p1791	N84-21682
DAAG-29-83-K0029	19	p3082	N84-29562
DAAG07-82-K-J156	24	p3894	N84-34661
DAAG24-83-K-0058	08	p1139	N84-17410
DAAG27-80-C-0056	05	p0646	N84-14246
DAAG29-77-G-0003	21	p3474	N84-32016
DAAG29-77-G-0008	12	p1898	N84-22362
DAAG29-77-G-0055	02	p0200	N84-11300
DAAG29-77-G-0102	06	p0810	N84-15275
DAAG29-77-G-0103	07	p0951	N84-16174
DAAG29-77-G-0121	14	p2129	N84-23766
DAAG29-77-G-0139	02	p0280	N84-11837
	02	p0288	N84-11888
DAAG29-77-G-0166	02	p0280	N84-11838
DAAG29-77-G-0207	11	p1714	N84-21176
DAAG29-77-G-0222	08	p1124	N84-17306
DAAG29-78-C-0021	01	p0005	N84-10030
	11	p1603	N84-20497
DAAG29-78-G-0046	05	p0729	N84-14788
	05	p0729	N84-14789
DAAG29-78-G-0057	03	p0320	N84-12094
DAAG29-79-C-0005	02	p0210	N84-11371
DAAG29-79-C-0057	01	p0064	N84-10422
DAAG29-79-C-0085	06	p0905	N84-15873
DAAG29-79-C-0087	09	p1278	N84-18347
DAAG29-79-C-0092	01	p0148	N84-10970
DAAG29-79-C-0103	08	p1201	N84-17832
DAAG29-79-C-0108	18	p2942	N84-28659
DAAG29-79-C-0110	03	p0421	N84-12752
DAAG29-79-C-0128	19	p2999	N84-29006
DAAG29-79-C-0131	06	p0918	N84-15965
DAAG29-79-C-0142	07	p0979	N84-16343
DAAG29-79-C-0155	04	p0580	N84-13823
	22	p3640	N84-33077
DAAG29-79-C-0159	14	p2129	N84-23766
DAAG29-79-C-0161	01	p0134	N84-10877
	06	p0901	N84-15846
	09	p1378	N84-18999
DAAG29-79-C-0183	08	p1124	N84-17306
DAAG29-79-C-0184	01	p0079	N84-10514
DAAG29-79-C-0190	11	p1627	N84-20651
DAAG29-79-C-0208	01	p0032	N84-10198
DAAG29-79-C-0215	21	p3386	N84-31486
	23	p3818	N84-34206
	24	p3898	N84-34683
DAAG29-79-D-1001	09	p1280	N84-18360
DAAG29-79-D-1002	06	p0801	N84-15225
	09	p1395	N84-19108
DAAG29-79-G-0017	11	p1652	N84-20787
	12	p1816	N84-21837
	22	p3596	N84-32773
DAAG29-79-G-0045	05	p0736	N84-14832
DAAG29-80-C-0002	23	p3713	N84-33538
DAAG29-80-C-0004	08	p1172	N84-17631
DAAG29-80-C-0007	06	p0801	N84-15223
DAAG29-80-C-0018	11	p1633	N84-20679
DAAG29-80-C-0026	11	p1663	N84-20853
DAAG29-80-C-0030	08	p1220	N84-17965
DAAG29-80-C-0032	21	p3474	N84-32016
DAAG29-80-C-0033	14	p2184	N84-24085
DAAG29-80-C-0034	12	p1898	N84-22362
DAAG29-80-C-0038	08	p1187	N84-17735
DAAG29-80-C-0041	01	p0078	N84-10506
	01	p0128	N84-10839
	01	p0129	N84-10840
	01	p0130	N84-10848
	01	p0130	N84-10849
	01	p0130	N84-10851
	01	p0130	N84-10852
	01	p0130	N84-10853
	01	p0130	N84-10854
	01	p0131	N84-10855
	01	p0131	N84-10858
	01	p0131	N84-10861
	01	p0132	N84-10862
	01	p0132	N84-10863
	05	p0650	N84-14273
	05	p0650	N84-14275
	05	p0655	N84-14304
	05	p0681	N84-14473
	05	p0681	N84-14476
	05	p0681	N84-14478
	05	p0735	N84-14829
	05	p0736	N84-14834
	05	p0736	N84-14835
	05	p0736	N84-14836
	05	p0736	N84-14837
	05	p0737	N84-14838
	05	p0737	N84-14839
	05	p0737	N84-14840
	05	p0737	N84-14841
	05	p0737	N84-14842
	05	p0738	N84-14844
	05	p0738	N84-14845
	05	p0738	N84-14846
	05	p0740	N84-14862
	05	p0740	N84-14863
	05	p0740	N84-14864
	05	p0741	N84-14865
	05	p0760	N84-14987
	07	p0948	N84-16152
	07	p1002	N84-16498
	07	p1002	N84-16499
	07	p1002	N84-16500
	07	p1053	N84-16815
	07	p1055	N84-16832
	07	p1061	N84-16882
	07	p1062	N84-16886
	07	p1062	N84-16887
	07	p1062	N84-16888
	07	p1062	N84-16889
	07	p1062	N84-16890
	07	p1063	N84-16891
	07	p1063	N84-16892
	07	p1063	N84-16893
	07	p1063	N84-16896
	07	p1063	N84-16897
	07	p1063	N84-16898
	07	p1064	N84-16899
	09	p1331	N84-18689
	09	p1371	N84-18954
	09	p1373	N84-18964
	09	p1373	N84-18965
	09	p1373	N84-18966
	09	p1373	N84-18967
	09	p1373	N84-18968
	09	p1374	N84-18969
	09	p1374	N84-18970
	09	p1374	N84-18972
	09	p1374	N84-18975
	09	p1374	N84-18976
	09	p1374	N84-18977
	09	p1375	N84-18980
	09	p1375	N84-18981
	09	p1381	N84-19020
	09	p1386	N84-19054
	09	p1387	N84-19060
	09	p1394	N84-19106
	09	p1395	N84-19107
	10	p1574	N84-20317
	11	p1647	N84-20770
	11	p1714	N84-21179
	11	p1714	N84-21180
	11	p1715	N84-21181
	11	p1715	N84-21182
	11	p1715	N84-21183
	11	p1715	N84-21184
	11	p1715	N84-21185
	11	p1715	N84-21187
	11	p1715	N84-21188
	11	p1716	N84-21189
	11	p1716	N84-21190
	11	p1717	N84-21203
	11	p1718	N84-21209
	12	p1815	N84-21834
	12	p1893	N84-22329
	12	p1893	N84-22331
	12	p1893	N84-22332
	12	p1896	N84-22348
	12	p1913	N84-22462
	14	p2130	N84-23767
	14	p2145	N84-23855
	14	p2145	N84-23858
	14	p2146	N84-23859
	14	p2196	N84-24175
	14	p2197	N84-24178
	14	p2201	N84-24209
	14	p2205	N84-24235
	14	p2212	N84-24282
	14	p2212	N84-24283
	14	p2212	N84-24284
	14	p2212	N84-24285
	14	p2212	N84-24286
	14	p2213	N84-24287
	14	p2213	N84-24288
	14	p2213	N84-24289
	14	p2213	N84-24290
	14	p2213	N84-24292
	14	p2213	N84-24293
	14	p2213	N84-24294
	14	p2214	N84-24295
	14	p2214	N84-24296
	14	p2218	N84-24308
	14	p2218	N84-24309
	14	p2218	N84-24311
	14	p2218	N84-24312
	14	p2219	N84-24315
	18	p2924	N84-28545
	19	p2988	N84-28934
	19	p3023	N84-29172
	19	p3023	N84-29174
	19	p3024	N84-29175
	19	p3024	N84-29176
	19	p3024	N84-29178
	19	p3033	N84-29237
	19	p3084	N84-29574
	19	p3084	N84-29575
	19	p3084	N84-29576
	19	p3084	N84-29577
	19	p3085	N84-29581
	19	p3085	N84-29582
	19	p3085	N84-29583
	19	p3085	N84-29584
	19	p3085	N84-29585
	19	p3086	N84-29586
	19	p3086	N84-29587
	19	p3086	N84-29588
	19	p3086	N84-29589
	19	p3086	N84-29590
	19	p3087	N84-29593
	19	p3087	N84-29594
	19	p3087	N84-29595
	19	p3087	N84-29596
	19	p3087	N84-29597
	19	p3087	N84-29598
	19	p3087	N84-29599
	19	p3093	N84-29641
	19	p3093	N84-29642
	21	p3399	N84-31565
	21	p3400	N84-31566
	21	p3400	N84-31568
	21	p3400	N84-31569
	21	p3471	N84-31999
	21	p3471	N84-32000
	21	p3471	N84-32001
	21	p3472	N84-32002
	21	p3472	N84-32003
	21	p3472	N84-32004
	21	p3472	N84-32005
	21	p3472	N84-32006
	21	p3472	N84-32007
	21	p3473	N84-32008

	21	p3473	N84-32009	
	21	p3473	N84-32010	
	21	p3473	N84-32011	
	21	p3473	N84-32014	
	21	p3496	N84-32171	
	21	p3515	N84-32268	
	24	p3901	N84-34704	
	24	p3939	N84-34930	
	24	p3952	N84-35025	
	24	p3952	N84-35026	
	24	p3952	N84-35027	
	24	p3952	N84-35028	
	24	p3952	N84-35030	
	24	p3953	N84-35031	
	24	p3953	N84-35032	
DAAG29-80-C-0046	05	p0650	N84-14271	
DAAG29-80-C-0053	08	p1125	N84-17311	
DAAG29-80-C-0054	02	p0200	N84-11300	
DAAG29-80-C-0057	05	p0713	N84-14675	
DAAG29-80-C-0067	06	p0855	N84-15567	
	24	p3939	N84-34931	
DAAG29-80-C-0076	05	p0661	N84-14347	
DAAG29-80-C-0080	02	p0299	N84-11960	
DAAG29-80-C-0081	02	p0280	N84-11835	
DAAG29-80-C-0082	19	p2959	N84-28752	
DAAG29-80-C-0084	17	p2764	N84-27557	
DAAG29-80-C-0085	08	p1235	N84-18073	
DAAG29-80-C-0086	09	p1327	N84-18668	
DAAG29-80-C-0088	08	p1235	N84-18070	
DAAG29-80-C-0092	07	p0951	N84-16174	
DAAG29-80-C-0093	12	p1826	N84-21906	
DAAG29-80-C-0099	02	p0200	N84-11302	
DAAG29-80-C-0100	01	p0044	N84-10282	
DAAG29-80-C-0101	12	p1791	N84-21678	
DAAG29-80-C-0103	12	p1913	N84-22465	
DAAG29-80-C-0104	08	p1150	N84-17487	
DAAG29-80-C-0105	17	p2619	N84-26761	
DAAG29-80-C-0111	12	p1792	N84-21686	
DAAG29-80-C-0114	06	p0923	N84-16001	
DAAG29-80-C-0116	06	p0923	N84-16000	
DAAG29-80-C-0120	09	p1368	N84-18933	
DAAG29-80-C-0122	19	p2966	N84-28799	
DAAG29-80-C-0123	09	p1279	N84-18349	
DAAG29-80-C-0125	08	p1234	N84-18069	
DAAG29-80-C-0131	12	p1820	N84-21864	
DAAG29-80-C-0132	22	p3586	N84-32708	
DAAG29-80-C-0139	14	p2225	N84-24352	
DAAG29-80-C-0142	19	p2989	N84-28939	
DAAG29-80-C-0144	14	p2129	N84-23766	
DAAG29-80-C-0149	09	p1389	N84-19074	
DAAG29-80-G-0005	06	p0918	N84-15966	
DAAG29-80-G-0010	01	p0122	N84-10795	
	01	p0123	N84-10798	
DAAG29-80-G-0014	09	p1322	N84-18637	
DAAG29-80-K-0006	02	p0284	N84-11863	
DAAG29-80-K-0011	11	p1744	N84-21381	
DAAG29-80-K-0012	19	p3110	N84-29761	
DAAG29-80-K-0013	12	p1879	N84-22247	
DAAG29-80-K-0014	12	p1791	N84-21679	
DAAG29-80-K-0018	07	p0993	N84-16440	
DAAG29-80-K-0020	06	p0915	N84-15950	
DAAG29-80-K-0022	22	p3576	N84-32651	
DAAG29-80-K-0023	12	p1797	N84-21722	
DAAG29-80-K-0025	02	p0280	N84-11838	
DAAG29-80-K-0031	12	p1801	N84-21744	
DAAG29-80-K-0034	11	p1669	N84-20688	
DAAG29-80-K-0035	19	p2988	N84-28933	
DAAG29-80-K-0036	01	p0138	N84-10906	
DAAG29-80-K-0040	07	p1002	N84-16497	
DAAG29-80-K-0041	07	p0979	N84-16344	
DAAG29-80-K-0042	07	p1062	N84-16884	
	11	p1714	N84-21176	
DAAG29-80-K-0046	09	p1308	N84-18554	
	09	p1365	N84-18912	
DAAG29-80-K-0047	21	p3370	N84-31383	
DAAG29-80-K-0048	09	p1388	N84-19065	
DAAG29-80-K-0049	17	p2628	N84-26814	
DAAG29-80-K-0051	02	p0213	N84-11396	
DAAG29-80-K-0052	12	p1823	N84-21882	
DAAG29-80-K-0057	12	p1789	N84-21669	
DAAG29-80-K-0059	17	p2663	N84-26990	
DAAG29-80-K-0061	12	p1881	N84-22259	
	19	p3076	N84-29516	
DAAG29-80-K-0062	14	p2202	N84-24218	
DAAG29-80-K-0064	12	p1822	N84-21880	
DAAG29-80-K-0067	22	p3586	N84-32709	
DAAG29-80-K-0068	23	p3714	N84-33543	
DAAG29-80-K-0069	08	p1235	N84-18071	
DAAG29-80-K-0071	11	p1633	N84-20679	
DAAG29-80-K-0073	13	p2024	N84-23124	
DAAG29-80-K-0074	23	p3830	N84-34293	
DAAG29-80-K-0077	05	p0733	N84-14811	
DAAG29-80-K-0078	09	p1278	N84-18346	
DAAG29-80-K-0080	08	p1151	N84-17490	
DAAG29-80-K-0081	12	p1901	N84-22382	
DAAG29-80-K-0082	13	p2042	N84-23252	
DAAG29-80-K-0083	08	p1210	N84-17869	
	11	p1647	N84-20768	
	11	p1647	N84-20769	
DAAG29-80-K-0085	13	p1986	N84-22893	
DAAG29-80-K-0087	08	p1235	N84-18072	
DAAG29-80-K-0088	15	p2297	N84-24787	
DAAG29-80-K-0093	15	p2302	N84-24815	
DAAG29-80-K-0097	12	p1820	N84-21865	
DAAG29-80-K-0099	22	p3547	N84-32453	
DAAG29-81-C-0009	10	p1571	N84-20297	
	21	p3473	N84-32013	
DAAG29-81-C-0015	17	p2619	N84-26760	
DAAG29-81-C-0020	05	p0736	N84-14831	
DAAG29-81-C-0021	05	p0730	N84-14791	
DAAG29-81-C-0023	01	p0087	N84-10565	
DAAG29-81-C-0032	03	p0323	N84-12112	
DAAG29-81-D-0100	01	p0032	N84-10200	
	05	p0645	N84-14245	
	05	p0675	N84-14438	
	05	p0754	N84-14945	
	06	p0918	N84-15964	
	08	p1099	N84-17150	
	08	p1231	N84-18048	
	12	p1773	N84-21563	
	16	p2547	N84-26347	
DAAG29-81-G-0004	19	p3089	N84-29610	
DAAG29-81-G-0014	09	p1322	N84-18637	
DAAG29-81-K-0001	14	p2123	N84-23723	
DAAG29-81-K-0003	15	p2413	N84-25487	
DAAG29-81-K-0004	03	p0402	N84-12632	
DAAG29-81-K-0009	13	p2043	N84-23253	
DAAG29-81-K-0012	19	p3024	N84-29181	
DAAG29-81-K-0013	11	p1653	N84-20790	
DAAG29-81-K-0015	14	p2101	N84-23611	
DAAG29-81-K-0016	11	p1665	N84-20862	
DAAG29-81-K-0020	12	p1811	N84-21804	
DAAG29-81-K-0021	21	p3465	N84-31970	
DAAG29-81-K-0023	11	p1744	N84-21380	
DAAG29-81-K-0024	19	p3007	N84-29062	
	19	p3008	N84-29069	
	19	p3016	N84-29120	
	19	p3016	N84-29122	
	19	p3079	N84-29536	
	19	p3090	N84-29615	
	19	p3090	N84-29619	
	20	p3173	N84-30150	
	24	p3898	N84-34680	
DAAG29-81-K-0027	19	p2993	N84-28968	
DAAG29-81-K-0030	12	p1798	N84-21730	
DAAG29-81-K-0032	17	p2653	N84-26969	
DAAG29-81-K-0038	18	p2845	N84-28068	
DAAG29-81-K-0042	11	p1714	N84-21177	
	14	p2198	N84-24188	
DAAG29-81-K-0045	12	p1845	N84-22027	
DAAG29-81-K-0047	22	p3555	N84-32509	
DAAG29-81-K-0049	21	p3357	N84-31294	
	23	p3711	N84-33525	
DAAG29-81-K-0053	08	p1144	N84-17443	
	18	p2833	N84-27987	
DAAG29-81-K-0055	22	p3662	N84-33214	
DAAG29-81-K-0057	05	p0754	N84-14948	
	21	p3386	N84-31486	
	24	p3898	N84-34683	
	24	p3898	N84-34684	
	24	p3898	N84-34685	
DAAG29-81-K-0059	05	p0719	N84-14714	
DAAG29-81-K-0062	20	p3283	N84-30849	
	23	p3731	N84-33648	
DAAG29-81-K-0065	22	p3623	N84-32955	
DAAG29-81-K-0066	19	p3007	N84-29060	
DAAG29-81-K-0071	23	p3754	N84-33795	
DAAG29-81-K-0075	19	p2994	N84-28971	
DAAG29-81-K-0084	01	p0087	N84-10566	
DAAG29-81-K-0086	09	p1275	N84-18323	
DAAG29-81-K-0087	22	p3662	N84-33216	
DAAG29-81-K-0088	05	p0737	N84-14843	
DAAG29-81-K-0097	23	p3714	N84-33542	
DAAG29-81-K-0108	02	p0282	N84-11847	
DAAG29-81-K-0111	12	p1873	N84-22204	
DAAG29-81-K-0120	12	p1798	N84-21728	
DAAG29-81-K-0121	12	p1798	N84-21727	
	16	p2466	N84-25808	
	17	p2624	N84-26794	
DAAG29-81-K-0125	07	p1016	N84-16594	
DAAG29-81-K-0127	14	p2201	N84-24209	
	19	p2988	N84-28934	
DAAG29-81-K-0128	18	p2914	N84-28482	
DAAG29-81-K-0132	02	p0280	N84-11838	
	14	p2199	N84-24194	
DAAG29-81-K-0137	15	p2337	N84-25028	
DAAG29-81-K-0138	12	p1797	N84-21723	
	15	p2297	N84-24788	
DAAG29-81-K-0140	08	p1131	N84-17358	
DAAG29-81-K-0142	08	p1178	N84-17673	
DAAG29-81-K-0152	16	p2469	N84-25823	
DAAG29-81-K-0156	01	p0124	N84-10808	
	03	p0421	N84-12751	
	09	p1375	N84-18979	
	11	p1709	N84-21140	
DAAG29-81-K-0160	07	p1054	N84-16826	
	08	p1213	N84-17910	
	08	p1223	N84-17987	
DAAG29-81-K-0166	12	p1897	N84-22354	
DAAG29-81-K-0168	24	p3939	N84-34929	
DAAG29-81-K-0171	09	p1368	N84-18934	
DAAG29-81-K-0174	09	p1375	N84-18978	
DAAG29-81-K-0175	01	p0153	N84-11004	
DAAG29-81-K-0178	19	p3094	N84-29646	
DAAG29-82-C-0001	16	p2496	N84-26017	
DAAG29-82-C-0010	05	p0736	N84-14832	
DAAG29-82-C-0011	06	p0886	N84-15759	
DAAG29-82-C-0022	14	p2179	N84-24051	
DAAG29-82-G-0005	22	p3593	N84-32754	
DAAG29-82-G-0090	14	p2198	N84-24185	
DAAG29-82-K-0002	05	p0736	N84-14835	
	05	p0737	N84-14842	
DAAG29-82-K-0013	06	p0825	N84-15381	
DAAG29-82-K-0014	12	p1797	N84-21724	
DAAG29-82-K-0016	11	p1669	N84-20687	
DAAG29-82-K-0017	14	p2123	N84-23724	
DAAG29-82-K-0029	21	p3400	N84-31568	
DAAG29-82-K-0034	17	p2619	N84-26761	
DAAG29-82-K-0046	23	p3714	N84-33540	
DAAG29-82-K-0048	21	p3359	N84-31304	
DAAG29-82-K-0051	21	p3399	N84-31565	
DAAG29-82-K-0069	21	p3400	N84-31569	
DAAG29-82-K-0074	06	p0825	N84-15376	
DAAG29-82-K-0075	14	p2101	N84-23609	
DAAG29-82-K-0077	02	p0280	N84-11833	
DAAG29-82-K-0080	19	p3007	N84-29064	
DAAG29-82-K-0081	05	p0709	N84-14644	
DAAG29-82-K-0083	08	p1151	N84-17489	
DAAG29-82-K-0084	07	p0993	N84-16438	
	07	p0997	N84-16466	
	08	p1144	N84-17444	
DAAG29-82-K-0086	14	p2197	N84-24179	
DAAG29-82-K-0089	19	p3007	N84-29064	
DAAG29-82-K-0090	01	p0128	N84-10836	
	09	p1372	N84-18959	
	10	p1420	N84-19286	
DAAG29-82-K-0100	05	p0659	N84-14333	
DAAG29-82-K-0105	01	p0119	N84-10772	
	05	p0728	N84-14783	
	07	p1052	N84-16814	
	08	p1219	N84-17960	
	09	p1368	N84-18931	
DAAG29-82-K-0109	01	p0122	N84-10794	
DAAG29-82-K-0119	10	p1589	N84-20412	
DAAG29-82-K-0154	06	p0901	N84-15851	
	07	p1064	N84-16899	
	11	p1715	N84-21185	
	21	p3473	N84-32008	
DAAG29-82-K-0155	11	p1715	N84-21186	
DAAG29-82-K-0156	22	p3648	N84-33128	
DAAG29-82-K-0163	01	p0122	N84-10796	
DAAG29-82-K-0168	05	p0736	N84-14833	
	08	p1220	N84-17961	
	22	p3648	N84-33132	
	22	p3650	N84-33139	
DAAG29-82-K-0176	12	p1873	N84-22204	
DAAG29-82-K-0178	21	p3473	N84-32012	
	21	p3475	N84-32021	
	21	p3475	N84-32022	
	21	p3475	N84-32024	
	22	p3648	N84-33125	
	22	p3648	N84-33126	
	22	p3648	N84-33127	
DAAG29-82-K-0188	05	p0650	N84-14274	
DAAG29-82-K-0190	14	p2119	N84-23701	
DAAG29-82-K-0196	09	p1321	N84-18631	
DAAG29-82-K-0197	03	p0417	N84-12727	
DAAG29-82-K-0198	02	p0278	N84-11819	
DAAG29-82-M-0174	01	p0063	N84-10415	
DAAG29-83-C-0003	12	p1816	N84-21836	
DAAG29-83-C-0010	19	p2966	N84-28796	
DAAG29-83-K-0003	22	p3682	N84-33341	
DAAG29-83-K-0004	12	p1816	N84-21837	
	22	p3596	N84-32773	
DAAG29-83-K-0006	19	p3013	N84-29098	
DAAG29-83-K-0007	14	p2197	N84-24184	
DAAG29-83-K-0012	02	p0266	N84-11747	
	02	p0280	N84-11837	
	09	p1375	N84-18982	
DAAG29-83-K-0014	14	p2198	N84-24189	
DAAG29-83-K-0024	12	p1898	N84-22360	
DAAG29-83-K-0029	19	p3089	N84-29613	
	22	p3646	N84-33117	
DAAG29-83-K-0051	02	p0281	N84-11843	
	04	p0581	N84-13831	
	04	p0590	N84-13900	
	05	p0729	N84-14786	
	05	p0740	N84-14861	

DAAG29-83-K-0052 ..... 17 p2734 N84-27378
DAAG29-83-K-0067 ..... 23 p3731 N84-33646
23 p3731 N84-33651
DAAG29-83-K-0084 ..... 14 p2200 N84-24200
14 p2200 N84-24201
22 p3594 N84-32758
DAAG29-83-K-0086 ..... 19 p3072 N84-29491
DAAG29-83-K-0092 ..... 09 p1386 N84-19055
DAAG29-83-K-0105 ..... 16 p2469 N84-25825
DAAG29-83-K-0123 ..... 17 p2714 N84-27276
DAAG29-83-K-0147 ..... 11 p1647 N84-20768
DAAG29-83-K-0176 ..... 18 p2927 N84-28562
18 p2927 N84-28563
DAAG29-83-K-0177 ..... 14 p2213 N84-24291
14 p2214 N84-24300
19 p3062 N84-29427
DAAG29-83-M-0065 ..... 13 p1975 N84-22821
DAAG29-83-M-0101 ..... 16 p2466 N84-25806
DAAG29-83-M-0234 ..... 09 p1381 N84-19021
DAAG29-83-M-0258 ..... 15 p2306 N84-24833
DAAG29-84-K-0003 ..... 09 p1393 N84-19097
09 p1393 N84-19100
DAAG29-84-K-0007 ..... 22 p3648 N84-33132
DAAG29-84-K-0048 ..... 23 p3817 N84-34203
DAAG46-77-C-0028 ..... 08 p1138 N84-17400
DAAG46-80-C-0057 ..... 09 p1276 N84-18329
DAAG46-81-K-0086 ..... 01 p0096 N84-10625
DAAG46-82-C-0047 ..... 11 p1606 N84-20517
DAAG46-82-C-0053 ..... 17 p2627 N84-26807
DAAG46-82-C-0054 ..... 20 p3153 N84-30020
DAAG46-82-C-0060 ..... 22 p3545 N84-32440
DAAG46-82-K-0006 ..... 07 p0968 N84-16271
DAAG46-82-K-0056 ..... 13 p2023 N84-23120
DAAH01-80-C-1289 ..... 04 p0540 N84-13551
DAAH01-80-C-1618 ..... 09 p1271 N84-18308
DAAH01-81-C-B057 ..... 12 p1778 N84-21601
DAAH01-81-C-B120 ..... 05 p0746 N84-14902
DAAH01-81-C-B138 ..... 02 p0223 N84-11461
DAAH01-82-D-A008 ..... 01 p0122 N84-10791
14 p2113 N84-23663
DAAH01-83-P-0805 ..... 18 p2802 N84-27782
DAAH01-83-P-1020 ..... 18 p2802 N84-27781
DAAK10-78-C-0323 ..... 13 p1949 N84-22669
DAAK10-79-C-0221 ..... 13 p1949 N84-22669
DAAK10-79-C-0384 ..... 23 p3698 N84-33435
DAAK10-81-C-0040 ..... 01 p0129 N84-10843
DAAK10-81-C-0266 ..... 09 p1280 N84-18357
13 p1951 N84-22683
DAAK10-81-C-0334 ..... 02 p0218 N84-11428
DAAK10-82-C-0138 ..... 14 p2132 N84-23779
DAAK10-82-C-0245 ..... 17 p2764 N84-27556
DAAK10-83-D-0009 ..... 08 p1099 N84-17148
DAAK11-79-C-0100 ..... 01 p0106 N84-10686
DAAK11-80-C-0104 ..... 13 p1946 N84-22656
DAAK11-80-Q-0106 ..... 09 p1388 N84-19068
DAAK11-81-C-0064 ..... 22 p3531 N84-32359
22 p3532 N84-32360
22 p3532 N84-32361
DAAK11-82-C-0007 ..... 14 p2158 N84-23930
DAAK11-82-C-0017 ..... 17 p2724 N84-27338
DAAK11-82-C-0053 ..... 13 p1947 N84-22662
DAAK11-82-C-0078 ..... 08 p1158 N84-17541
DAAK11-82-C-0104 ..... 13 p2043 N84-23257
DAAK11-82-M-0008 ..... 16 p2472 N84-25845
DAAK11-83-C-0001 ..... 17 p2671 N84-27026
DAAK20-79-C-0272 ..... 04 p0526 N84-13459
DAAK20-80-C-0254 ..... 18 p2910 N84-28458
18 p2910 N84-28459
DAAK20-80-C-0278 ..... 11 p1647 N84-20769
DAAK20-81-C-0133 ..... 11 p1703 N84-21103
DAAK21-79-C-0117 ..... 16 p2499 N84-26031
DAAK21-80-G-0076 ..... 04 p0505 N84-13313
17 p2623 N84-26790
DAAK21-82-C-0107 ..... 05 p0667 N84-14384
09 p1302 N84-18513
DAAK21-83-C-0082 ..... 17 p2654 N84-26975
DAAK29-80-K-0010 ..... 15 p2322 N84-24939
DAAK30-79-C-0045 ..... 04 p0544 N84-13581
DAAK30-79-C-0121 ..... 05 p0690 N84-14531
DAAK40-78-D-0010 ..... 16 p2545 N84-26335
DAAK50-82-G-0002 ..... 07 p1075 N84-16988
DAAK51-80-C-0025 ..... 11 p1603 N84-20497
DAAK51-81-C-0047 ..... 21 p3325 N84-31095
DAAK51-82-C-0039 ..... 08 p1103 N84-17176
DAAK60-83-C-0031 ..... 06 p0887 N84-15765
DAAK70-79-C-0042 ..... 02 p0229 N84-11502
DAAK70-79-C-0131 ..... 01 p0070 N84-10455
DAAK70-79-C-0153 ..... 16 p2510 N84-26107
DAAK70-79-C-0180 ..... 08 p1213 N84-17913
DAAK70-80-C-0001 ..... 01 p0052 N84-10337
20 p3162 N84-30078
DAAK70-80-C-0034 ..... 10 p1467 N84-19584
DAAK70-80-C-0045 ..... 03 p0383 N84-12496
DAAK70-80-C-0053 ..... 01 p0049 N84-10317
DAAK70-80-C-0127 ..... 23 p3835 N84-34328
DAAK70-80-C-0168 ..... 01 p0072 N84-10468
05 p0675 N84-14439
DAAK70-80-C-0214 ..... 18 p2798 N84-27754
DAAK70-80-C-0216 ..... 07 p0960 N84-16222
DAAK70-81-C-0048 ..... 10 p1500 N84-19805
DAAK70-81-C-0059 ..... 08 p1177 N84-17670
DAAK70-81-C-0128 ..... 04 p0509 N84-13338
06 p0813 N84-15289
10 p1470 N84-19602
DAAK70-81-C-0175 ..... 20 p3170 N84-30128
DAAK70-81-C-0209 ..... 23 p3693 N84-33406
DAAK70-81-C-0261 ..... 08 p1178 N84-17676
DAAK70-81-F-0491 ..... 02 p0277 N84-11812
DAAK70-82-C-0001 ..... 01 p0052 N84-10337
04 p0509 N84-13337
10 p1502 N84-19817
20 p3161 N84-30076
20 p3162 N84-30078
22 p3604 N84-32833
DAAK70-82-C-0011 ..... 01 p0100 N84-10651
DAAK70-82-C-0017 ..... 18 p2821 N84-27914
DAAK70-82-C-0061 ..... 11 p1646 N84-20765
DAAK70-82-C-0100 ..... 04 p0520 N84-13419
DAAK70-82-C-0104 ..... 22 p3607 N84-32650
DAAK70-82-C-0133 ..... 08 p1212 N84-17907
DAAK70-82-C-0149 ..... 22 p3614 N84-32900
DAAK70-82-C-0162 ..... 24 p3902 N84-34710
DAAK70-82-C-0196 ..... 05 p0663 N84-14355
DAAK70-82-K-0204 ..... 12 p1879 N84-22246
DAAK80-79-C-0258 ..... 02 p0210 N84-11372
DAAK80-80-C-0507 ..... 20 p3269 N84-30748
DAAK80-80-G-0520 ..... 10 p1486 N84-19714
DAAK80-80-K-0579 ..... 02 p0209 N84-11365
03 p0361 N84-12352
DAAK80-81-C-0077 ..... 06 p0824 N84-15370
DAAK80-81-C-0085 ..... 07 p0985 N84-16382
DAAK80-81-C-0089 ..... 06 p0866 N84-15643
06 p0896 N84-15817
DAAK80-81-C-0136 ..... 01 p0062 N84-10408
DAAK80-81-C-0187 ..... 17 p2753 N84-27475
21 p3335 N84-31164
DAAK80-81-C-0190 ..... 10 p1430 N84-19352
DACA39-82-M-0095 ..... 01 p0057 N84-10371
DACW09-80-M-1205 ..... 14 p2170 N84-23997
DACW39-78-C-0092 ..... 20 p3228 N84-30515
DACW39-81-M-0715 ..... 21 p3466 N84-31974
DACW39-81-M-4377 ..... 21 p3436 N84-31802
DACW39-82-M-1125 ..... 06 p0878 N84-15716
DAERO-78-G-078 ..... 18 p2941 N84-28651
18 p2941 N84-28652
DAJA27-81-C-0220 ..... 07 p1002 N84-16498
DAJA37-79-C-0504 ..... 03 p0420 N84-12746
DAJA37-79-C-0516 ..... 03 p0361 N84-12351
DAJA37-80-C-0031 ..... 09 p1278 N84-18348
DAJA37-80-C-0183 ..... 10 p1479 N84-19663
DAJA37-80-C-0234 ..... 06 p0902 N84-15853
DAJA37-80-C-0243 ..... 07 p1062 N84-16885
DAJA37-80-C-0255 ..... 24 p3936 N84-34915
DAJA37-80-C-0264 ..... 01 p0136 N84-10892
DAJA37-80-C-0303 ..... 17 p2626 N84-26805
DAJA37-80-C-0372 ..... 09 p1284 N84-18388
DAJA37-80-C-0477 ..... 22 p3547 N84-32455
DAJA37-80-C-0493 ..... 09 p1396 N84-19120
DAJA37-80-C-0645 ..... 22 p3593 N84-32757
DAJA37-81-C-0003 ..... 07 p1039 N84-16738
20 p3245 N84-30597
DAJA37-81-C-0013 ..... 09 p1333 N84-18702
09 p1333 N84-18703
DAJA37-81-C-0045 ..... 17 p2768 N84-27579
DAJA37-81-C-0046 ..... 11 p1647 N84-20767
DAJA37-81-C-0053 ..... 22 p3611 N84-32679
DAJA37-81-C-0065 ..... 08 p1216 N84-17932
DAJA37-81-C-0162 ..... 23 p3747 N84-33754
DAJA37-81-C-0179 ..... 09 p1337 N84-18729
DAJA37-81-C-0196 ..... 22 p3560 N84-32542
DAJA37-81-C-0210 ..... 13 p2011 N84-23046
DAJA37-81-C-0214 ..... 04 p0507 N84-13320
DAJA37-81-C-0215 ..... 22 p3562 N84-32554
DAJA37-81-C-0220 ..... 07 p1063 N84-16896
DAJA37-81-C-0221 ..... 18 p2866 N84-28198
DAJA37-81-C-0223 ..... 06 p0850 N84-15545
DAJA37-81-C-0236 ..... 09 p1332 N84-18700
DAJA37-81-C-0251 ..... 06 p0908 N84-15899
DAJA37-81-C-0286 ..... 24 p3968 N84-35125
DAJA37-81-C-0288 ..... 23 p3713 N84-33537
DAJA37-81-C-0501 ..... 17 p2627 N84-26809
DAJA37-81-C-0504 ..... 10 p1479 N84-19665
DAJA37-81-C-0594 ..... 10 p1458 N84-19525
DAJA37-81-C-0895 ..... 09 p1376 N84-18988
09 p1377 N84-18993
19 p3104 N84-29719
21 p3386 N84-31489
DAJA37-81-M-0395 ..... 16 p2560 N84-26425
DAJA37-82-C-0050 ..... 03 p0352 N84-12291
DAJA37-82-C-0058 ..... 24 p3951 N84-35018
DAJA37-82-C-0118 ..... 01 p0152 N84-11002
DAJA37-82-C-0189 ..... 14 p2179 N84-24052
24 p3934 N84-34902
DAJA37-82-C-0234 ..... 22 p3560 N84-32541
DAJA37-82-C-0243 ..... 05 p0697 N84-14576
DAJA37-82-C-0300 ..... 08 p1217 N84-17943
10 p1491 N84-19751
18 p2837 N84-28008
DAJA37-82-C-0465 ..... 08 p1166 N84-17593
DAJA38-80-C-0032 ..... 01 p0128 N84-10837
10 p1568 N84-20274
14 p2214 N84-24299
DAJA45-82-C-0004 ..... 06 p0878 N84-15715
DAJA45-83-C-0001 ..... 23 p3718 N84-33569
DAJA45-83-C-0004 ..... 16 p2526 N84-26216
DAJA45-83-C-0012 ..... 14 p2242 N84-24464
DAJA45-83-C-0013 ..... 21 p3391 N84-31519
DAJA45-83-C-0018 ..... 19 p3006 N84-29054
DAJA45-83-C-0019 ..... 17 p2624 N84-26796
DAJA45-83-C-0022 ..... 14 p2248 N84-24499
DAJA45-83-C-0025 ..... 24 p3897 N84-34679
DAJA45-83-C-0030 ..... 16 p2472 N84-25843
DAJA45-83-C-0034 ..... 08 p1196 N84-17799
15 p2374 N84-25243
17 p2737 N84-27387
DAJA45-83-C-0037 ..... 20 p3238 N84-30555
DAJA45-83-C-0038 ..... 12 p1861 N84-22123
DAJA45-83-C-0051 ..... 18 p2789 N84-27703
20 p3228 N84-30513
DAJA45-83-M-0168 ..... 20 p3177 N84-30180
DAJA45-83-M-0210 ..... 08 p1178 N84-17674
DAJA45-83-M-0264 ..... 17 p2751 N84-27458
DAJA45-84-C-0005 ..... 21 p3386 N84-31489
DAJA45-84-C-0011 ..... 10 p1525 N84-19992
DAJA45-84-C-0021 ..... 17 p2728 N84-27361
DAMD17-75-C-5008 ..... 15 p2378 N84-25273
15 p2378 N84-25274
DAMD17-76-C-6053 ..... 17 p2740 N84-27396
DAMD17-80-C-0075 ..... 01 p0116 N84-10753
DAMD17-81-C-1057 ..... 06 p0887 N84-15766
06 p0887 N84-15768
10 p1548 N84-20145
DAMD17-81-C-1240 ..... 11 p1695 N84-21058
DAMD17-82-C-2136 ..... 22 p3830 N84-33005
DAMD17-83-C-3274 ..... 24 p3917 N84-34799
DAMD17-84-G-4005 ..... 21 p3454 N84-31915
DARPA ORDER 2496 ..... 06 p0825 N84-15377
06 p0825 N84-15378
11 p1644 N84-20747
DARPA ORDER 2646 ..... 03 p0411 N84-12692
DARPA ORDER 3343 ..... 03 p0441 N84-12895
DARPA ORDER 3519 ..... 14 p2224 N84-24349
DARPA ORDER 3650 ..... 06 p0850 N84-15543
DARPA ORDER 3654 ..... 06 p0795 N84-15181
DARPA ORDER 3673 ..... 10 p1481 N84-19678
DARPA ORDER 3704 ..... 10 p1586 N84-20407
12 p1914 N84-22466
DARPA ORDER 3773 ..... 09 p1307 N84-18542
DARPA ORDER 3818 ..... 19 p3029 N84-29213
DARPA ORDER 3862 ..... 06 p0866 N84-15642
DARPA ORDER 3957 ..... 13 p1952 N84-22694
DARPA ORDER 4100 ..... 08 p1210 N84-17890
DARPA ORDER 4114 ..... 06 p0897 N84-15823
08 p1161 N84-17561
DARPA ORDER 4240 ..... 10 p1588 N84-20405
DARPA ORDER 4361 ..... 02 p0180 N84-11173
02 p0180 N84-11174
DARPA ORDER 4395 ..... 02 p0225 N84-11478
03 p0432 N84-12829
23 p3827 N84-34276
DARPA ORDER 4456 ..... 07 p1051 N84-16809
DARPA ORDER 4462 ..... 09 p1318 N84-18611
DARPA ORDER 4540 ..... 13 p2046 N84-23278
DARPA ORDER 4541 ..... 09 p1396 N84-19117
DARPA ORDER 4670 ..... 14 p2155 N84-23910
DARPA ORDER 4746 ..... 16 p2499 N84-26032
20 p3196 N84-30300
DARPA ORDER 4856 ..... 08 p1165 N84-17585
DARPA ORDER 4947 ..... 24 p3951 N84-35020
DARPA-29601-80-C-0040 ..... 21 p3498 N84-32174
DASG60-78-L-0079 ..... 08 p1219 N84-17960
DASG60-80-C-0057 ..... 03 p0418 N84-12732
20 p3273 N84-30777
DASG60-81-C-0006 ..... 09 p1383 N84-19036
DASG60-81-C-0104 ..... 07 p1010 N84-16550
DASG60-81-C-0109 ..... 10 p1481 N84-19677
DASG60-83-C-0112 ..... 24 p3985 N84-35108
DASG60-84-C-0005 ..... 24 p3859 N84-34461
DCA100-78-C-0053 ..... 07 p1084 N84-17048
07 p1084 N84-17049
DCA100-80-C-0042 ..... 05 p0684 N84-14498
DCA100-82-C-0005 ..... 18 p2829 N84-27959
DCA100-82-C-0026 ..... 08 p1150 N84-17485
08 p1150 N84-17486
DCA100-82-C-0061 ..... 04 p0522 N84-13431
04 p0522 N84-13432
DCA100-83-C-0047 ..... 18 p2829 N84-27962
DCA100-83-C-0049 ..... 15 p2418 N84-25518

DE-AC01-76ET-10348 ..... 01 p0092 N84-10597
DE-AC01-76ET-20356 ..... 12 p1838 N84-21979
DE-AC01-77ET-29069 ..... 10 p1487 N84-19719
DE-AC01-78CS-54266 ..... 04 p0510 N84-13340
DE-AC01-79CS-40287 ..... 02 p0190 N84-11237
DE-AC01-79CS-40294 ..... 07 p0972 N84-16298
DE-AC01-79ET-29365 ..... 12 p1892 N84-22321
DE-AC01-80CS-40402 ..... 03 p0356 N84-12320
DE-AC01-80CS-50021 ..... 03 p0356 N84-12327
DE-AC01-80CS-50184 ..... 02 p0304 N84-11992
DE-AC01-80PE-70039 ..... 02 p0201 N84-11310
DE-AC01-80RA-50418 ..... 04 p0616 N84-14065
DE-AC01-80RA-50419 ..... 23 p3820 N84-34227
DE-AC01-80RA-50420 ..... 07 p1066 N84-16923
22 p3644 N84-33103
DE-AC01-81EV-10450 ..... 16 p2511 N84-26117
DE-AC01-82CE-15095 ..... 12 p1816 N84-21840
20 p3313 N84-31042
20 p3315 N84-31056
DE-AC01-82CE-15151 ..... 20 p3313 N84-31038
20 p3313 N84-31039
DE-AC01-82CE-30719 ..... 20 p3236 N84-30542
DE-AC01-82CE-762221 ..... 22 p3646 N84-33120
DE-AC01-82EP-12079 ..... 12 p1845 N84-22026
DE-AC01-82ER-30029 ..... 04 p0559 N84-13683
DE-AC01-82ER-30041 ..... 05 p0704 N84-14622
10 p1530 N84-20020
DE-AC01-82ER-30042 ..... 20 p3298 N84-30946
DE-AC01-82ER-40075 ..... 04 p0598 N84-13945
DE-AC01-82ER-53126 ..... 20 p3303 N84-30978
DE-AC01-83EP-15100 ..... 16 p2511 N84-26117
DE-AC02-73ER-05007 ..... 24 p3987 N84-35240
DE-AC02-76CH-00016 ..... 01 p0045 N84-10291
01 p0050 N84-10325
01 p0053 N84-10343
01 p0053 N84-10344
01 p0090 N84-10590
01 p0098 N84-10639
01 p0112 N84-10727
01 p0114 N84-10741
01 p0142 N84-10935
01 p0144 N84-10947
02 p0191 N84-11243
02 p0204 N84-11328
02 p0214 N84-11400
02 p0228 N84-11493
02 p0244 N84-11596
02 p0244 N84-11599
02 p0244 N84-11601
02 p0289 N84-11896
03 p0347 N84-12256
03 p0350 N84-12275
03 p0367 N84-12386
03 p0368 N84-12399
03 p0390 N84-12541
03 p0390 N84-12545
03 p0416 N84-12720
03 p0421 N84-12754
03 p0431 N84-12826
03 p0436 N84-12862
03 p0438 N84-12872
03 p0438 N84-12874
03 p0441 N84-12896
03 p0446 N84-12934
03 p0454 N84-12967
03 p0454 N84-12989
04 p0503 N84-13298
04 p0503 N84-13299
04 p0503 N84-13300
04 p0515 N84-13383
04 p0515 N84-13385
04 p0528 N84-13476
04 p0529 N84-13477
04 p0530 N84-13484
04 p0538 N84-13539
04 p0571 N84-13760
04 p0600 N84-13963
04 p0601 N84-13969
04 p0602 N84-13974
04 p0603 N84-13982
04 p0614 N84-14050
04 p0614 N84-14056
04 p0615 N84-14058
05 p0671 N84-14409
05 p0685 N84-14502
05 p0685 N84-14505
05 p0701 N84-14597
05 p0720 N84-14719
06 p0910 N84-15906
06 p0910 N84-15907
06 p0910 N84-15908
06 p0911 N84-15915
06 p0912 N84-15921
06 p0912 N84-15924
06 p0913 N84-15935
06 p0914 N84-15939
06 p0916 N84-15953
06 p0925 N84-16011
07 p0971 N84-16294
07 p0974 N84-16315
07 p0975 N84-16316
07 p0976 N84-16323
07 p1008 N84-16538
07 p1010 N84-16553
DE-AC02-76CH-03000 ..... 01 p0119 N84-10775
01 p0144 N84-10944
02 p0309 N84-12025
03 p0384 N84-12502
03 p0426 N84-12791
03 p0435 N84-12855
03 p0456 N84-12999
03 p0476 N84-13132
04 p0515 N84-13386
04 p0603 N84-13983
06 p0907 N84-15892
10 p1498 N84-19793
14 p2148 N84-23871
15 p2337 N84-25032
15 p2389 N84-25330
19 p3079 N84-29539
08 p1229 N84-18034
08 p1230 N84-18037
09 p1390 N84-19079
10 p1461 N84-19545
10 p1499 N84-19796
10 p1501 N84-19808
10 p1501 N84-19811
10 p1532 N84-20033
10 p1560 N84-20219
11 p1688 N84-21007
11 p1738 N84-21342
11 p1742 N84-21368
11 p1757 N84-21472
12 p1903 N84-22395
13 p1990 N84-22920
14 p2124 N84-23728
14 p2128 N84-23759
14 p2142 N84-23847
14 p2223 N84-24340
14 p2243 N84-24470
15 p2299 N84-24797
15 p2299 N84-24799
15 p2340 N84-25045
15 p2364 N84-25187
15 p2402 N84-25420
15 p2405 N84-25437
15 p2414 N84-25494
16 p2566 N84-26465
17 p2758 N84-27511
18 p2812 N84-27849
18 p2844 N84-28063
18 p2891 N84-28349
18 p2928 N84-28566
19 p3103 N84-29713
20 p3146 N84-29979
20 p3149 N84-29995
20 p3155 N84-30031
20 p3155 N84-30032
20 p3155 N84-30033
20 p3164 N84-30093
20 p3167 N84-30112
20 p3179 N84-30191
20 p3179 N84-30192
20 p3290 N84-30889
20 p3293 N84-30905
20 p3294 N84-30915
20 p3295 N84-30923
20 p3296 N84-30928
20 p3310 N84-31020
21 p3368 N84-31367
21 p3374 N84-31409
21 p3374 N84-31410
21 p3374 N84-31411
21 p3392 N84-31524
21 p3393 N84-31530
21 p3436 N84-31803
21 p3451 N84-31898
21 p3494 N84-32145
21 p3496 N84-32157
21 p3496 N84-32159
22 p3547 N84-32456
22 p3547 N84-32457
22 p3562 N84-32558
22 p3595 N84-32764
22 p3612 N84-32884
22 p3645 N84-33111
22 p3646 N84-33121
22 p3653 N84-33154
22 p3654 N84-33162
22 p3665 N84-33236
22 p3667 N84-33246
24 p3881 N84-34586
DE-AC02-76CH-03073 ..... 04 p0610 N84-14027
18 p2932 N84-28595
20 p3163 N84-30086
DE-AC02-76CR-03073 ..... 20 p3156 N84-30044
DE-AC02-76ER-01116 ..... 03 p0436 N84-12856
DE-AC02-76ER-01195 ..... 04 p0523 N84-13437
04 p0581 N84-13837
11 p1712 N84-21164
DE-AC02-76ER-01198 ..... 03 p0350 N84-12273
19 p2996 N84-28981
20 p3157 N84-30048
21 p3367 N84-31361
23 p3831 N84-34300
DE-AC02-76ER-01367 ..... 01 p0046 N84-10297
DE-AC02-76ER-02009 ..... 20 p3293 N84-30903
DE-AC02-76ER-02167 ..... 03 p0435 N84-12852
DE-AC02-76ER-02192 ..... 01 p0144 N84-10945
DE-AC02-76ER-02271 ..... 21 p3495 N84-32153
DE-AC02-76ER-02313 ..... 07 p0975 N84-16317
22 p3556 N84-32517
DE-AC02-76ER-02383 ..... 08 p1222 N84-17978
11 p1716 N84-21195
19 p3112 N84-29773
22 p3641 N84-33087
DE-AC02-76ER-02718 ..... 11 p1730 N84-21287
DE-AC02-76ER-02754 ..... 10 p1468 N84-19591
DE-AC02-76ER-02945 ..... 10 p1456 N84-19509
DE-AC02-76ER-02960 ..... 11 p1634 N84-20686
DE-AC02-76ER-02978 ..... 11 p1745 N84-21388
22 p3655 N84-33170
DE-AC02-76ER-03077 ..... 08 p1222 N84-17976
08 p1222 N84-17977
09 p1379 N84-19008
09 p1391 N84-19084
11 p1716 N84-21194
11 p1738 N84-21340
12 p1878 N84-22239
20 p3305 N84-30994
DE-AC02-76ER-03166 ..... 21 p3367 N84-31360
DE-AC02-76ER-03416 ..... 03 p0350 N84-12277
DE-AC02-76ER-03459 ..... 05 p0656 N84-14314
DE-AC02-76ER-03533 ..... 14 p2223 N84-24338
DE-AC02-76ER-04027 ..... 22 p3545 N84-32441
DE-AC02-76ERO-3077 ..... 13 p2044 N84-23262
DE-AC02-76ET-11304 ..... 15 p2364 N84-25183
DE-AC02-76ET-15352 ..... 01 p0150 N84-10988
DE-AC02-76ET-20279 ..... 05 p0700 N84-14592
16 p2512 N84-26122
DE-AC02-76ET-29368 ..... 20 p3237 N84-30548
DE-AC02-76ET-51001 ..... 03 p0418 N84-12733
DE-AC02-76ET-52040 ..... 04 p0607 N84-14006
10 p1586 N84-20397
12 p1910 N84-22447
DE-AC02-76ET-53016 ..... 21 p3500 N84-32185
DE-AC02-76ET-53051 ..... 03 p0449 N84-12951
07 p1078 N84-17006
19 p3109 N84-29754
20 p3306 N84-30998
21 p3501 N84-32192
DE-AC02-76ET-53052 ..... 11 p1661 N84-20835
DE-AC02-76EV-01105 ..... 06 p0886 N84-15761
DE-AC02-76EV-01332 ..... 20 p3257 N84-30673
DE-AC02-76EV-01599 ..... 03 p0401 N84-12625
03 p0402 N84-12627
04 p0571 N84-13761
DE-AC02-76EV-02360 ..... 13 p2010 N84-23036
DE-AC02-76EV-03490 ..... 06 p0890 N84-15785
DE-AC02-77CH-00178 ..... 01 p0082 N84-10533
01 p0140 N84-10921
02 p0204 N84-11329
02 p0218 N84-11431
02 p0242 N84-11584
02 p0242 N84-11585
02 p0302 N84-11983
03 p0401 N84-12622
03 p0404 N84-12641
03 p0404 N84-12644
03 p0404 N84-12647
03 p0405 N84-12650
03 p0475 N84-13127
03 p0475 N84-13128
04 p0537 N84-13530
04 p0557 N84-13675
04 p0558 N84-13676
04 p0558 N84-13682
04 p0568 N84-13744
04 p0570 N84-13757
04 p0570 N84-13758
06 p0833 N84-15423
19 p3102 N84-29706
19 p3102 N84-29709
20 p3190 N84-30265
20 p3292 N84-30902
21 p3494 N84-32140
22 p3578 N84-32662
22 p3681 N84-33334

	06	p0872	N84-15678
	06	p0874	N84-15689
	06	p0875	N84-15691
	06	p0909	N84-15905
	08	p1180	N84-17688
	11	p1674	N84-20927
	12	p1838	N84-21979
	12	p1843	N84-22014
	12	p1843	N84-22015
	12	p1918	N84-22494
	15	p2364	N84-25186
	20	p3163	N84-30090
	20	p3315	N84-31052
	21	p3434	N84-31788
	21	p3518	N84-32268
	23	p3831	N84-34298
DE-AC02-77CS-34539	02	p0220	N84-11440
DE-AC02-77ER-04222	15	p2288	N84-24729
DE-AC02-77ER-04341	21	p3360	N84-31315
DE-AC02-77ER-04433	07	p0971	N84-16289
DE-AC02-77ER-04435	22	p3666	N84-33239
DE-AC02-77ER-04441	01	p0155	N84-11020
DE-AC02-77ER-04445	15	p2287	N84-24725
DE-AC02-77ER-04451	20	p3311	N84-31027
DE-AC02-77ER-04463	21	p3360	N84-31314
DE-AC02-77ER-04471	22	p3660	N84-33200
	23	p3828	N84-34282
DE-AC02-77ET-25502	07	p0999	N84-16476
DE-AC02-77ET-53001	05	p0750	N84-14922
DE-AC02-77EV-04320	22	p3660	N84-33203
DE-AC02-77EV-04361	04	p0597	N84-13937
DE-AC02-78CS-54936	21	p3413	N84-31641
DE-AC02-78ER-04660	01	p0146	N84-10957
DE-AC02-78ER-04693	03	p0455	N84-12992
	11	p1741	N84-21358
DE-AC02-78ER-04938	10	p1453	N84-19489
DE-AC02-78ER-05001	19	p3103	N84-29715
DE-AC02-78ER-05002	01	p0044	N84-10284
	10	p1589	N84-20416
	11	p1635	N84-20689
	15	p2414	N84-25496
	23	p3719	N84-33573
DE-AC02-78ER-05007	11	p1760	N84-21489
DE-AC02-78ER-05031	23	p3715	N84-33549
DE-AC02-78ER-10107	04	p0499	N84-13276
	04	p0500	N84-13281
	04	p0500	N84-13282
	04	p0501	N84-13283
	04	p0549	N84-13618
	05	p0694	N84-14554
DE-AC02-78ET-51013	01	p0149	N84-10982
	01	p0154	N84-11013
	02	p0296	N84-11939
	03	p0430	N84-12817
	03	p0447	N84-12937
	03	p0449	N84-12950
	04	p0609	N84-14018
	04	p0611	N84-14034
	07	p1077	N84-17000
	11	p1738	N84-21337
	12	p1911	N84-22451
	18	p2933	N84-28599
	19	p3106	N84-29737
	19	p3107	N84-29745
	20	p3303	N84-30979
	20	p3304	N84-30981
	20	p3304	N84-30982
	20	p3304	N84-30983
DE-AC02-78ET-52027	21	p3367	N84-31359
DE-AC02-79ER-10357	11	p1710	N84-21145
DE-AC02-79ER-10359	12	p1799	N84-21734
DE-AC02-79ER-10367	20	p3157	N84-30051
DE-AC02-79ER-10377	19	p2990	N84-28946
DE-AC02-79ER-10421	22	p3560	N84-32546
DE-AC02-79ER-10428	10	p1461	N84-19543
DE-AC02-79ER-10444	22	p3667	N84-33248
DE-AC02-79ER-10461	04	p0613	N84-14046
	05	p0756	N84-14957
DE-AC02-79ER-10463	03	p0404	N84-12645
DE-AC02-79ER-10464	04	p0601	N84-13966
DE-AC02-79ER-10473	10	p1502	N84-19818
	11	p1704	N84-21111
DE-AC02-79ER-10474	01	p0091	N84-10595
DE-AC02-79ER-10482	07	p1010	N84-16554
DE-AC02-79ER-10485	09	p1285	N84-18389
DE-AC02-79ER-10496	04	p0540	N84-13554
DE-AC02-79ET-15440	10	p1487	N84-19720
	23	p3715	N84-33551
DE-AC02-79ET-27225	21	p3403	N84-31587
DE-AC02-79ET-29071	12	p1814	N84-21822
DE-AC02-79EV-10097	10	p1537	N84-20072
DE-AC02-79EV-10098	19	p3059	N84-29408
	23	p3801	N84-34104
DE-AC02-80CS-30259	16	p2514	N84-26136
DE-AC02-80CS-30260	03	p0457	N84-13005
DE-AC02-80CS-30603	16	p2518	N84-26162
DE-AC02-80ER-10556	20	p3204	N84-30350
	23	p3719	N84-33577
DE-AC02-80ER-10575	03	p0442	N84-12902
DE-AC02-80ER-10591	04	p0508	N84-13327
DE-AC02-80ER-10597	11	p1739	N84-21345
	11	p1743	N84-21371
DE-AC02-80ER-10598	08	p1236	N84-18076
	11	p1741	N84-21359
DE-AC02-80ER-10612	10	p1577	N84-20332
DE-AC02-80ER-10619	21	p3371	N84-31392
DE-AC02-80ER-10624	20	p3310	N84-31022
DE-AC02-80ER-10631	14	p2222	N84-24337
DE-AC02-80ER-10646	15	p2416	N84-25502
DE-AC02-80ER-10660	20	p3295	N84-30922
DE-AC02-80ER-10668	04	p0602	N84-13975
DE-AC02-80ER-10669	22	p3653	N84-33160
DE-AC02-80ER-10691	20	p3247	N84-30611
DE-AC02-80ER-10693	11	p1665	N84-20863
	12	p1822	N84-21878
DE-AC02-80ER-10699	01	p0164	N84-11079
DE-AC02-80ER-10701	02	p0264	N84-11740
DE-AC02-80ER-10722	18	p2812	N84-27852
DE-AC02-80ER-10735	05	p0660	N84-14338
DE-AC02-80ER-10740	10	p1589	N84-20414
DE-AC02-80ER-10748	15	p2406	N84-25441
DE-AC02-80ER-10750	01	p0155	N84-11017
	07	p0971	N84-16294
DE-AC02-80ER-10753	22	p3680	N84-33328
DE-AC02-80ER-10766	11	p1693	N84-21041
DE-AC02-80ER-53104	02	p0296	N84-11941
DE-AC02-80ET-10789	11	p1742	N84-21383
DE-AC02-80ET-17019	23	p3743	N84-33729
DE-AC02-80ET-17089	11	p1739	N84-21343
	11	p1739	N84-21346
	11	p1739	N84-21347
	11	p1741	N84-21362
DE-AC02-80ET-25209	10	p1456	N84-19511
DE-AC02-80ET-26502	01	p0139	N84-10909
DE-AC02-80ET-37249	07	p0975	N84-16321
DE-AC02-80EV-10403	02	p0245	N84-11603
DE-AC02-80EV-10468	04	p0554	N84-13652
	06	p1179	N84-17680
DE-AC02-80RA-50293	05	p0712	N84-14664
DE-AC02-81CE-90033	19	p2989	N84-28944
	19	p2995	N84-28978
DE-AC02-81CS-30632	16	p2515	N84-26141
DE-AC02-81CS-90215	12	p1816	N84-21838
DE-AC02-81ER-10841	21	p3475	N84-32022
	23	p3820	N84-34223
DE-AC02-81ER-10855	10	p1457	N84-19516
DE-AC02-81ER-10856	13	p2002	N84-22989
DE-AC02-81ER-10857	05	p0687	N84-14513
DE-AC02-81ER-10860	08	p1228	N84-18023
DE-AC02-81ER-10866	10	p1589	N84-20415
	11	p1745	N84-21384
	11	p1745	N84-21389
DE-AC02-81ER-10880	19	p3064	N84-29438
DE-AC02-81ER-10881	04	p0615	N84-14059
DE-AC02-81ER-10887	18	p2943	N84-28660
DE-AC02-81ER-10903	03	p0414	N84-12710
DE-AC02-81ER-10907	22	p3556	N84-32519
DE-AC02-81ER-10910	21	p3368	N84-31365
DE-AC02-81ER-10911	07	p1043	N84-16760
	20	p3150	N84-30005
DE-AC02-81ER-10913	22	p3548	N84-32458
DE-AC02-81ER-10942	09	p1285	N84-18390
	10	p1461	N84-19538
	11	p1635	N84-20690
DE-AC02-81ER-10948	04	p0545	N84-13591
DE-AC02-81ER-10956	07	p0975	N84-16319
DE-AC02-81ER-10960	01	p0046	N84-10298
	19	p2995	N84-28980
DE-AC02-81ER-10969	12	p1794	N84-21697
DE-AC02-81ER-10971	18	p2942	N84-28657
DE-AC02-81ER-10972	20	p3157	N84-30050
DE-AC02-81ER-10978	15	p2339	N84-25042
DE-AC02-81ER-10979	12	p1908	N84-22432
DE-AC02-81ER-10992	13	p1958	N84-22726
DE-AC02-81ER-10996	14	p2214	N84-24300
	17	p2758	N84-27513
	18	p2926	N84-28558
	19	p3062	N84-29427
	20	p3282	N84-30833
	21	p3474	N84-32017
DE-AC02-81ER-40001	21	p3495	N84-32147
DE-AC02-81ER-40014	03	p0438	N84-12877
DE-AC02-81ER-40038	11	p1730	N84-21289
DE-AC02-81ER-53110	20	p3302	N84-30970
DE-AC02-81ER-53122	10	p1500	N84-19806
DE-AC02-81ER-60023	01	p0104	N84-10674
	21	p3448	N84-31874
DE-AC02-81EV-10665	11	p1688	N84-21010
	19	p3057	N84-29395
DE-AC02-81RA-50292	06	p0830	N84-15404
	22	p3618	N84-32928
DE-AC02-82CE-30746	16	p2517	N84-26158
DE-AC02-82CE-30749	16	p2515	N84-26142
DE-AC02-82CE-30753	16	p2517	N84-26159
DE-AC02-82CE-30755	16	p2518	N84-26164
DE-AC02-82CE-40556	01	p0054	N84-10346
DE-AC02-82CH-10122	20	p3235	N84-30538
	20	p3274	N84-30781
DE-AC02-82ER-12033	11	p1655	N84-20802
DE-AC02-82ER-12037	01	p0091	N84-10592
DE-AC02-82ER-12038	10	p1461	N84-19540
	10	p1461	N84-19541
	10	p1461	N84-19544
	10	p1462	N84-19548
	10	p1462	N84-19549
DE-AC02-82ER-12039	12	p1863	N84-22142
DE-AC02-82ER-12046	11	p1715	N84-21183
	24	p3952	N84-35028
DE-AC02-82ER-12058	07	p0970	N84-16287
DE-AC02-82ER-12064	22	p3668	N84-33241
DE-AC02-82ER-12076	09	p1289	N84-18414
DE-AC02-82ER-12081	19	p3102	N84-29705
DE-AC02-82ER-12085	22	p3629	N84-32994
DE-AC02-82ER-12089	11	p1740	N84-21351
DE-AC02-82ER-13026	10	p1530	N84-20023
	20	p3235	N84-30533
DE-AC02-82ER-40073	19	p3103	N84-29716
DE-AC02-82ER-53136	20	p3305	N84-30988
DE-AC02-82ER-53140	11	p1738	N84-21338
	18	p2934	N84-28605
DE-AC02-82ER-60045	02	p0244	N84-11597
DE-AC02-82ER-60055	04	p0541	N84-13562
	04	p0594	N84-13917
DE-AC02-82ER-60063	01	p0088	N84-10474
DE-AC02-82F1-11680	16	p2515	N84-26140
DE-AC02-83CE-30752	16	p2516	N84-26148
DE-AC02-83CE-40652	20	p3198	N84-30310
DE-AC02-83CE-89000	16	p2515	N84-26139
DE-AC02-83CH-10093	07	p0971	N84-16293
	07	p1003	N84-16505
	08	p1138	N84-17402
	10	p1482	N84-19688
	10	p1530	N84-20022
	11	p1675	N84-20928
	11	p1675	N84-20929
	12	p1816	N84-21839
	12	p1843	N84-22016
	12	p1843	N84-22018
	12	p1844	N84-22022
	14	p2132	N84-23780
	15	p2374	N84-25244
	18	p2883	N84-28293
	18	p2942	N84-28656
	20	p3163	N84-30084
	20	p3235	N84-30534
	20	p3235	N84-30535
	20	p3235	N84-30536
	20	p3235	N84-30537
	20	p3236	N84-30543
	20	p3311	N84-31026
	20	p3315	N84-31057
	21	p3434	N84-31789
	21	p3435	N84-31795
	21	p3435	N84-31796
	22	p3618	N84-32926
	22	p3619	N84-32929
	23	p3715	N84-33548
	23	p3790	N84-34039
	23	p3798	N84-34084
	23	p3829	N84-34290
	24	p3917	N84-34798
DE-AC02-83CH-10140	02	p0219	N84-11439
	04	p0554	N84-13851
	09	p1337	N84-18732
	09	p1346	N84-18794
	12	p1837	N84-21973
	20	p3228	N84-30516
DE-AC02-83ER-13069	19	p3090	N84-29620
DE-AC02-83ER-13112	15	p2369	N84-25214
DE-AC02-83ER-13116	18	p2930	N84-28580
DE-AC02-83ER-40089	20	p3310	N84-31024
DE-AC02-83ER-40098	04	p0540	N84-13554
DE-AC02-83ER-40108	21	p3495	N84-32148
DE-AC02-83ER-45023	07	p1083	N84-17042
DE-AC02-83ER-45025	07	p1082	N84-17037
	12	p1915	N84-22477
DE-AC02-83ER-45029	19	p2986	N84-28922
DE-AC02-83ER-45030	22	p3605	N84-32839
DE-AC02-83ER-45043	22	p3666	N84-33242
DE-AC02-83ER-52090	09	p1392	N84-19092
DE-AC02-83ER-53147	03	p0448	N84-12947
DE-AC02-83ER-53154	12	p1910	N84-22445
DE-AC02-83ER-53162	20	p3306	N84-31002
DE-AC02-83ER-60104	19	p3059	N84-29410
DE-AC02-83ER-80027	19	p3105	N84-29729
DE-AC02-84ER-13163	20	p3198	N84-30311
	22	p3605	N84-32841
DE-AC02-87CH-10093	06	p0810	N84-15276

DE-AC03-70SF-00515	21	p3497	N84-32161
DE-AC03-75SF-00515	04	p0599	N84-13955
DE-AC03-76ET-53057	04	p0541	N84-13561
	04	p0606	N84-13999
	04	p0607	N84-14007
	13	p2045	N84-23273
	14	p2230	N84-24373
	20	p3306	N84-30999
	21	p3501	N84-32189
DE-AC03-76SF-00098	01	p0037	N84-10235
	01	p0045	N84-10290
	01	p0047	N84-10300
	01	p0069	N84-10449
	01	p0075	N84-10492
	01	p0080	N84-10520
	01	p0081	N84-10524
	01	p0127	N84-10832
	01	p0142	N84-10934
	01	p0143	N84-10940
	01	p0144	N84-10951
	01	p0155	N84-11018
	01	p0155	N84-11023
	02	p0195	N84-11267
	02	p0195	N84-11269
	02	p0201	N84-11308
	02	p0203	N84-11325
	02	p0210	N84-11374
	02	p0214	N84-11404
	02	p0220	N84-11444
	02	p0224	N84-11467
	02	p0227	N84-11489
	02	p0228	N84-11492
	02	p0232	N84-11520
	02	p0244	N84-11598
	02	p0250	N84-11633
	02	p0274	N84-11790
	02	p0292	N84-11913
	02	p0299	N84-11961
	02	p0299	N84-11963
	03	p0347	N84-12255
	03	p0350	N84-12276
	03	p0350	N84-12279
	03	p0367	N84-12392
	03	p0368	N84-12398
	03	p0369	N84-12401
	03	p0419	N84-12738
	03	p0420	N84-12749
	03	p0434	N84-12847
	03	p0436	N84-12861
	03	p0439	N84-12885
	03	p0440	N84-12886
	03	p0441	N84-12895
	03	p0446	N84-12929
	03	p0455	N84-12993
	03	p0455	N84-12996
	03	p0456	N84-13003
	04	p0494	N84-13245
	04	p0495	N84-13248
	04	p0495	N84-13249
	04	p0495	N84-13250
	04	p0495	N84-13251
	04	p0496	N84-13253
	04	p0499	N84-13274
	04	p0515	N84-13384
	04	p0526	N84-13462
	04	p0527	N84-13467
	04	p0527	N84-13468
	04	p0528	N84-13475
	04	p0535	N84-13520
	04	p0538	N84-13538
	04	p0538	N84-13540
	04	p0558	N84-13680
	04	p0598	N84-13943
	04	p0598	N84-13948
	04	p0600	N84-13961
	04	p0602	N84-13973
	04	p0605	N84-13994
	04	p0613	N84-14044
	04	p0613	N84-14049
	05	p0651	N84-14281
	05	p0651	N84-14282
	05	p0660	N84-14340
	05	p0663	N84-14360
	05	p0697	N84-14578
	05	p0700	N84-14596
	05	p0704	N84-14621
	05	p0755	N84-14950
	05	p0755	N84-14953
	05	p0759	N84-14982
	06	p0886	N84-15762
	06	p0910	N84-15910
	06	p0910	N84-15911
	06	p0924	N84-16009
	06	p0927	N84-16019
	07	p0998	N84-16475
	07	p0999	N84-16476
	07	p1011	N84-16557
	07	p1064	N84-16900
	07	p1073	N84-16973
	07	p1074	N84-16982
	07	p1081	N84-17029
	08	p1162	N84-17566
	08	p1221	N84-17975
	08	p1228	N84-18022
	08	p1231	N84-18042
	08	p1236	N84-18080
	09	p1342	N84-18768
	09	p1405	N84-19178
	09	p1418	N84-19278
	10	p1457	N84-19514
	10	p1461	N84-19542
	10	p1462	N84-19546
	10	p1462	N84-19550
	10	p1487	N84-19722
	10	p1499	N84-19795
	10	p1560	N84-20218
	10	p1564	N84-20250
	10	p1577	N84-20333
	10	p1590	N84-20418
	11	p1629	N84-20661
	11	p1629	N84-20663
	11	p1634	N84-20682
	11	p1634	N84-20683
	11	p1635	N84-20692
	11	p1654	N84-20796
	11	p1654	N84-20797
	11	p1673	N84-20920
	11	p1676	N84-20937
	11	p1708	N84-21134
	11	p1709	N84-21139
	11	p1711	N84-21156
	11	p1716	N84-21196
	11	p1717	N84-21200
	11	p1730	N84-21288
	11	p1745	N84-21385
	11	p1746	N84-21392
	11	p1746	N84-21393
	12	p1794	N84-21699
	12	p1828	N84-21916
	12	p1884	N84-22281
	12	p1903	N84-22390
	12	p1903	N84-22394
	12	p1911	N84-22452
	12	p1915	N84-22476
	12	p1915	N84-22480
	12	p1919	N84-22505
	13	p1965	N84-22764
	13	p2006	N84-23014
	13	p2009	N84-23030
	13	p2041	N84-23243
	13	p2045	N84-23269
	13	p2045	N84-23271
	13	p2048	N84-23286
	13	p2048	N84-23287
	14	p2123	N84-23725
	14	p2123	N84-23727
	14	p2128	N84-23761
	14	p2223	N84-24339
	14	p2224	N84-24345
	14	p2243	N84-24471
	14	p2244	N84-24473
	14	p2252	N84-24525
	15	p2364	N84-25184
	15	p2393	N84-25360
	15	p2412	N84-25480
	15	p2414	N84-25492
	15	p2418	N84-25522
	16	p2513	N84-26131
	16	p2514	N84-26133
	16	p2515	N84-26143
	16	p2517	N84-26155
	16	p2517	N84-26156
	16	p2517	N84-26157
	16	p2519	N84-26170
	16	p2519	N84-26171
	16	p2543	N84-26320
	18	p2815	N84-27869
	18	p2945	N84-28675
	19	p2989	N84-28944
	19	p2995	N84-28979
	19	p2996	N84-28982
	19	p3025	N84-29183
	19	p3033	N84-29238
	19	p3071	N84-29485
	19	p3112	N84-29772
	19	p3112	N84-29775
	20	p3150	N84-30004
	20	p3154	N84-30027
	20	p3163	N84-30083
	20	p3163	N84-30087
	20	p3167	N84-30110
	20	p3180	N84-30201
	20	p3180	N84-30202
	20	p3181	N84-30210
	20	p3190	N84-30266
	20	p3243	N84-30586
	20	p3247	N84-30609
	20	p3274	N84-30783
	20	p3274	N84-30784
	20	p3285	N84-30858
	20	p3294	N84-30912
	20	p3295	N84-30918
	20	p3296	N84-30929
	20	p3296	N84-30930
	20	p3298	N84-30942
	20	p3300	N84-30958
	20	p3311	N84-31029
	21	p3359	N84-31310
	21	p3361	N84-31322
	21	p3361	N84-31325
	21	p3362	N84-31327
	21	p3392	N84-31525
	21	p3393	N84-31535
	21	p3402	N84-31584
	21	p3410	N84-31626
	21	p3445	N84-31857
	21	p3493	N84-32137
	21	p3493	N84-32138
	21	p3498	N84-32173
	21	p3505	N84-32213
	22	p3548	N84-32459
	22	p3549	N84-32464
	22	p3556	N84-32520
	22	p3557	N84-32521
	22	p3588	N84-32726
	22	p3589	N84-32731
	22	p3590	N84-32737
	22	p3590	N84-32740
	22	p3595	N84-32767
	22	p3619	N84-32930
	22	p3629	N84-32995
	22	p3653	N84-33159
	22	p3659	N84-33192
	22	p3665	N84-33235
	22	p3667	N84-33247
	22	p3680	N84-33327
	23	p3715	N84-33550
	23	p3719	N84-33576
	23	p3812	N84-34170
	23	p3823	N84-34242
	23	p3823	N84-34243
DE-AC03-76SF-00326	03	p0421	N84-12752
DE-AC03-76SF-00472	20	p3257	N84-30672
DE-AC03-76SF-00515	01	p0068	N84-10443
	01	p0073	N84-10480
	01	p0119	N84-10772
	01	p0119	N84-10773
	01	p0143	N84-10938
	01	p0143	N84-10942
	01	p0143	N84-10943
	02	p0210	N84-11373
	02	p0282	N84-11850
	02	p0290	N84-11902
	02	p0290	N84-11903
	02	p0290	N84-11904
	02	p0291	N84-11908
	03	p0382	N84-12489
	03	p0433	N84-12840
	03	p0434	N84-12842
	03	p0435	N84-12849
	03	p0435	N84-12850
	03	p0435	N84-12854
	03	p0437	N84-12868
	03	p0438	N84-12878
	03	p0439	N84-12879
	04	p0527	N84-13467
	04	p0529	N84-13482
	04	p0594	N84-13919
	04	p0601	N84-13968
	04	p0602	N84-13976
	04	p0609	N84-14016
	04	p0614	N84-14055
	05	p0741	N84-14866
	05	p0745	N84-14894
	05	p0750	N84-14925
	06	p0916	N84-15955
	06	p0926	N84-16018
	07	p0999	N84-16477
	07	p1008	N84-16537
	07	p1052	N84-16814
	12	p1902	N84-22389
	12	p1903	N84-22391
	12	p1903	N84-22393
	12	p1916	N84-22486
	14	p2225	N84-24355
	15	p2337	N84-25031
	15	p2408	N84-25456
	19	p3028	N84-29202

	19	p3113	N84-29782
	20	p3177	N84-30176
	20	p3181	N84-30207
	20	p3181	N84-30209
	20	p3194	N84-30287
	20	p3293	N84-30907
	20	p3294	N84-30913
	20	p3295	N84-30924
	20	p3311	N84-31028
	20	p3311	N84-31030
	21	p3392	N84-31527
	21	p3494	N84-32141
	21	p3494	N84-32143
	21	p3495	N84-32149
	21	p3495	N84-32152
	21	p3496	N84-32156
	22	p3588	N84-32727
	22	p3650	N84-33140
	22	p3654	N84-33165
DE-AC03-77CS-51212	02	p0204	N84-11331
	02	p0204	N84-11332
DE-AC03-78ER-01885	12	p1802	N84-21747
DE-AC03-78ET-13333	01	p0053	N84-10342
DE-AC03-78ET-27125	15	p2363	N84-25181
	18	p2876	N84-28260
DE-AC03-79ET-15450	20	p3167	N84-30111
DE-AC03-79ET-27131	15	p2363	N84-25181
	18	p2876	N84-28260
DE-AC03-79SF-10763	18	p2953	N84-28716
DE-AC03-80ER-53092	03	p0445	N84-12924
	03	p0445	N84-12925
DE-AC03-81CS-30569	20	p3184	N84-30234
DE-AC03-81CS-40520	05	p0663	N84-14361
	20	p3170	N84-30133
DE-AC03-81ER-10858	20	p3282	N84-30840
DE-AC03-81ER-10964	04	p0494	N84-13240
	04	p0494	N84-13244
	04	p0534	N84-13514
	05	p0651	N84-14278
DE-AC03-81ER-53113	03	p0449	N84-12953
	04	p0609	N84-14019
	19	p3109	N84-29753
DE-AC03-81SF-11558	14	p2172	N84-24010
DE-AC03-81SF-11564	20	p3186	N84-30246
DE-AC03-81SF-11573	12	p1921	N84-22513
DE-AC03-82ER-13000	02	p0299	N84-11964
	12	p1903	N84-22391
	22	p3665	N84-33234
DE-AC03-82ER-51030	19	p3108	N84-29751
DE-AC03-82ER-51031	01	p0150	N84-10983
DE-AC03-82ER-52063	04	p0523	N84-13441
DE-AC03-82SF-11593	03	p0404	N84-12640
DE-AC03-82SF-11655	12	p1843	N84-22017
DE-AC03-83ER-53150	15	p2411	N84-25472
DE-AC03-83SF-11725	22	p3655	N84-33168
DE-AC03-84ER-52104	22	p3680	N84-33202
DE-AC04-76CH-00016	07	p1082	N84-17038
DE-AC04-76DP-00053	03	p0419	N84-12734
	04	p0492	N84-13231
	04	p0541	N84-13559
	05	p0660	N84-14341
	06	p0802	N84-15227
	07	p0971	N84-16291
	07	p0972	N84-16300
	08	p1140	N84-17412
	08	p1140	N84-17413
	08	p1162	N84-17567
	09	p1286	N84-18395
	09	p1290	N84-18422
	11	p1676	N84-20938
	12	p1824	N84-21892
	14	p2220	N84-24321
	15	p2407	N84-25447
	16	p2470	N84-25827
	19	p3000	N84-29014
	19	p3002	N84-29024
	20	p3150	N84-29999
	20	p3180	N84-30204
	22	p3612	N84-32686
	23	p3725	N84-33603
	23	p3755	N84-33801
DE-AC04-76DP-00613	01	p0085	N84-10551
	01	p0093	N84-10602
	02	p0188	N84-11224
	04	p0492	N84-13229
	04	p0508	N84-13331
	04	p0539	N84-13544
	04	p0539	N84-13545
	04	p0582	N84-13842
	06	p0898	N84-15832
	08	p1135	N84-17382
	08	p1206	N84-17862
	10	p1482	N84-19551
	11	p1661	N84-20834
	12	p1799	N84-21733
	12	p1802	N84-21749
	12	p1823	N84-21885
	12	p1878	N84-22238
	13	p1998	N84-22963
	15	p2340	N84-25044
	20	p3197	N84-30302
	20	p3197	N84-30305
	21	p3406	N84-31602
	23	p3752	N84-33784
DE-AC04-76DP-00656	14	p2121	N84-23709
	15	p2385	N84-25304
	18	p2834	N84-27993
	19	p3116	N84-29802
	21	p3395	N84-31547
	23	p3720	N84-33582
DE-AC04-76DP-00789	01	p0038	N84-10241
	01	p0046	N84-10293
	01	p0046	N84-10294
	01	p0051	N84-10329
	01	p0071	N84-10465
	01	p0072	N84-10473
	01	p0072	N84-10474
	01	p0073	N84-10475
	01	p0073	N84-10477
	01	p0074	N84-10487
	01	p0074	N84-10489
	01	p0080	N84-10519
	01	p0081	N84-10527
	01	p0081	N84-10529
	01	p0085	N84-10549
	01	p0087	N84-10570
	01	p0087	N84-10571
	01	p0088	N84-10577
	01	p0090	N84-10588
	01	p0096	N84-10628
	01	p0125	N84-10812
	01	p0134	N84-10881
	01	p0148	N84-10971
	01	p0148	N84-10974
	01	p0150	N84-10986
	01	p0153	N84-11009
	01	p0154	N84-11010
	01	p0154	N84-11016
	01	p0155	N84-11021
	01	p0155	N84-11024
	02	p0188	N84-11223
	02	p0195	N84-11266
	02	p0196	N84-11275
	02	p0196	N84-11276
	02	p0200	N84-11304
	02	p0201	N84-11311
	02	p0201	N84-11312
	02	p0204	N84-11330
	02	p0214	N84-11401
	02	p0214	N84-11403
	02	p0215	N84-11409
	02	p0215	N84-11411
	02	p0215	N84-11412
	02	p0219	N84-11438
	02	p0220	N84-11443
	02	p0223	N84-11465
	02	p0224	N84-11470
	02	p0226	N84-11483
	02	p0228	N84-11494
	02	p0229	N84-11504
	02	p0232	N84-11521
	02	p0232	N84-11522
	02	p0232	N84-11524
	02	p0242	N84-11586
	02	p0242	N84-11587
	02	p0269	N84-11764
	02	p0270	N84-11768
	02	p0271	N84-11771
	02	p0282	N84-11851
	02	p0289	N84-11895
	02	p0290	N84-11900
	02	p0290	N84-11901
	02	p0291	N84-11906
	02	p0293	N84-11919
	02	p0295	N84-11934
	02	p0299	N84-11965
	02	p0304	N84-11995
	03	p0321	N84-12097
	03	p0350	N84-12278
	03	p0353	N84-12293
	03	p0353	N84-12296
	03	p0355	N84-12308
	03	p0356	N84-12318
	03	p0357	N84-12322
	03	p0366	N84-12385
	03	p0368	N84-12393
	03	p0369	N84-12400
	03	p0369	N84-12402
	03	p0369	N84-12403
	03	p0373	N84-12428
	03	p0373	N84-12429
	03	p0373	N84-12431
	03	p0377	N84-12457
	03	p0378	N84-12458
	03	p0378	N84-12459
	03	p0384	N84-12503
	03	p0390	N84-12543
	03	p0390	N84-12544
	03	p0419	N84-12735
	03	p0421	N84-12753
	03	p0431	N84-12823
	03	p0436	N84-12857
	03	p0436	N84-12858
	03	p0437	N84-12866
	03	p0442	N84-12901
	03	p0445	N84-12921
	03	p0447	N84-12941
	03	p0447	N84-12942
	03	p0447	N84-12943
	03	p0448	N84-12944
	03	p0448	N84-12945
	03	p0450	N84-12962
	03	p0453	N84-12980
	03	p0454	N84-12986
	03	p0455	N84-12994
	03	p0455	N84-12998
	03	p0461	N84-13039
	04	p0502	N84-13290
	04	p0503	N84-13297
	04	p0508	N84-13328
	04	p0527	N84-13463
	04	p0527	N84-13465
	04	p0528	N84-13473
	04	p0528	N84-13474
	04	p0529	N84-13481
	04	p0535	N84-13515
	04	p0536	N84-13522
	04	p0536	N84-13523
	04	p0538	N84-13541
	04	p0541	N84-13563
	04	p0544	N84-13585
	04	p0546	N84-13597
	04	p0549	N84-13619
	04	p0550	N84-13622
	04	p0555	N84-13655
	04	p0558	N84-13678
	04	p0558	N84-13679
	04	p0559	N84-13687
	04	p0563	N84-13714
	04	p0582	N84-13839
	04	p0582	N84-13840
	04	p0582	N84-13846
	04	p0597	N84-13939
	04	p0597	N84-13940
	04	p0598	N84-13949
	04	p0599	N84-13951
	04	p0599	N84-13954
	04	p0600	N84-13960
	04	p0602	N84-13977
	04	p0608	N84-14010
	04	p0608	N84-14012
	04	p0610	N84-14029
	04	p0611	N84-14033
	05	p0647	N84-14255
	05	p0651	N84-14279
	05	p0651	N84-14280
	05	p0655	N84-14308
	05	p0656	N84-14311
	05	p0656	N84-14316
	05	p0676	N84-14446
	05	p0688	N84-14521
	05	p0688	N84-14522
	05	p0745	N84-14893
	05	p0754	N84-14949
	05	p0755	N84-14952
	05	p0755	N84-14954
	05	p0755	N84-14955
	06	p0783	N84-15128
	06	p0783	N84-15129
	06	p0807	N84-15258
	06	p0811	N84-15280
	06	p0830	N84-15403
	06	p0831	N84-15406
	06	p0861	N84-15613
	06	p0879	N84-15717
	06	p0924	N84-16004
	06	p0924	N84-16006
	06	p0924	N84-16008
	07	p0968	N84-16273
	07	p0971	N84-16292
	07	p0972	N84-16299
	07	p0975	N84-16318
	07	p0998	N84-16471
	07	p0998	N84-16473
	07	p0999	N84-16478
	07	p1003	N84-16502
	07	p1004	N84-16509
	07	p1010	N84-16551

07 p1010 N84-16552
07 p1026 N84-16648
07 p1026 N84-16649
07 p1055 N84-16835
07 p1064 N84-16901
07 p1078 N84-17007
07 p1081 N84-17031
07 p1081 N84-17032
07 p1082 N84-17034
07 p1082 N84-17035
07 p1082 N84-17036
08 p1100 N84-17151
08 p1133 N84-17371
08 p1136 N84-17388
08 p1152 N84-17500
08 p1165 N84-17584
08 p1172 N84-17633
08 p1180 N84-17689
08 p1181 N84-17692
08 p1221 N84-17973
08 p1233 N84-18061
08 p1235 N84-18075
09 p1289 N84-18415
09 p1316 N84-18600
09 p1379 N84-19010
10 p1463 N84-19553
10 p1482 N84-19686
10 p1501 N84-19809
10 p1505 N84-19837
10 p1509 N84-19879
10 p1572 N84-20299
11 p1634 N84-20685
11 p1645 N84-20753
11 p1647 N84-20771
11 p1647 N84-20773
11 p1654 N84-20799
11 p1661 N84-20836
11 p1666 N84-20868
11 p1672 N84-20908
11 p1672 N84-20910
11 p1675 N84-20930
11 p1704 N84-21109
11 p1704 N84-21110
11 p1709 N84-21141
11 p1709 N84-21142
11 p1716 N84-21193
11 p1717 N84-21198
11 p1745 N84-21386
11 p1745 N84-21390
12 p1766 N84-21518
12 p1813 N84-21818
12 p1844 N84-22020
12 p1863 N84-22139
12 p1895 N84-22344
12 p1895 N84-22345
12 p1904 N84-22397
13 p1927 N84-22541
13 p1996 N84-22953
13 p2009 N84-23031
13 p2009 N84-23032
14 p2120 N84-23707
14 p2120 N84-23708
14 p2126 N84-23760
14 p2141 N84-23840
14 p2148 N84-23869
14 p2149 N84-23873
14 p2149 N84-23875
14 p2151 N84-23888
14 p2159 N84-23932
14 p2173 N84-24012
14 p2243 N84-24466
15 p2258 N84-24563
15 p2288 N84-24726
15 p2305 N84-24828
15 p2314 N84-24887
15 p2316 N84-24900
15 p2359 N84-25157
15 p2363 N84-25177
15 p2363 N84-25178
15 p2363 N84-25180
15 p2393 N84-25361
15 p2418 N84-25521
18 p2812 N84-27850
18 p2812 N84-27851
18 p2819 N84-27899
18 p2853 N84-28118
18 p2945 N84-28676
18 p2945 N84-28677
19 p2995 N84-28980
19 p3000 N84-29013
19 p3018 N84-29137
19 p3018 N84-29138
19 p3019 N84-29139
19 p3032 N84-29233
19 p3037 N84-29263
19 p3051 N84-29362

DE-AC04-76DP-03533 ..... 01 p0045 N84-10289
01 p0103 N84-10668
03 p0423 N84-12767
06 p0814 N84-15296
06 p0814 N84-15297
11 p1634 N84-20681
12 p1843 N84-22019
12 p1844 N84-22023
12 p1844 N84-22024
13 p2009 N84-23033
19 p3090 N84-29621
19 p3112 N84-29776
19 p3116 N84-29803
20 p3149 N84-29997
20 p3150 N84-30002
20 p3151 N84-30007
20 p3158 N84-30055
20 p3164 N84-30091
20 p3164 N84-30094
20 p3164 N84-30095
20 p3180 N84-30198
20 p3180 N84-30199
20 p3181 N84-30206
20 p3181 N84-30211
20 p3186 N84-30242
20 p3189 N84-30261
20 p3197 N84-30306
20 p3202 N84-30342
20 p3203 N84-30346
20 p3203 N84-30348
20 p3235 N84-30532
20 p3246 N84-30602
20 p3273 N84-30778
20 p3274 N84-30782
20 p3274 N84-30785
20 p3275 N84-30788
20 p3282 N84-30834
20 p3283 N84-30842
20 p3291 N84-30896
20 p3294 N84-30916
20 p3298 N84-30945
20 p3300 N84-30959
20 p3306 N84-30997
20 p3308 N84-31007
20 p3309 N84-31017
20 p3315 N84-31053
20 p3315 N84-31054
21 p3368 N84-31364
21 p3392 N84-31528
21 p3393 N84-31529
21 p3394 N84-31537
21 p3394 N84-31538
21 p3394 N84-31540
21 p3395 N84-31542
21 p3401 N84-31574
21 p3415 N84-31658
21 p3422 N84-31709
21 p3423 N84-31713
21 p3423 N84-31715
21 p3434 N84-31787
21 p3435 N84-31791
21 p3435 N84-31792
21 p3435 N84-31797
21 p3494 N84-32144
21 p3496 N84-32155
21 p3499 N84-32175
21 p3499 N84-32176
21 p3501 N84-32187
21 p3504 N84-32208
21 p3505 N84-32209
21 p3519 N84-32293
22 p3532 N84-32363
22 p3548 N84-32460
22 p3548 N84-32461
22 p3560 N84-32547
22 p3564 N84-32572
22 p3589 N84-32732
22 p3589 N84-32734
22 p3589 N84-32735
22 p3589 N84-32736
22 p3595 N84-32770
22 p3599 N84-32796
22 p3606 N84-32844
22 p3612 N84-32883
22 p3612 N84-32885
22 p3618 N84-32927
22 p3619 N84-32931
22 p3641 N84-33085
22 p3646 N84-33123
22 p3649 N84-33134
22 p3654 N84-33163
22 p3654 N84-33164
23 p3725 N84-33604
23 p3725 N84-33605
23 p3755 N84-33802
23 p3817 N84-34202

DE-AC04-76DR-00789 ..... 20 p3155 N84-30036
21 p3360 N84-31311
21 p3406 N84-31606
DE-AC04-76EV-01013 ..... 06 p0875 N84-15694
DE-AC04-77AL-04047 ..... 10 p1487 N84-19721
DE-AC04-77CH-00178 ..... 07 p1083 N84-17043
DE-AC04-78CS-15361 ..... 04 p0559 N84-13685
DE-AC04-78ET-13329 ..... 21 p3359 N84-31307
21 p3362 N84-31329
DE-AC04-79ET-15303 ..... 12 p1823 N84-21883
DE-AC05-76ET-53036 ..... 04 p0609 N84-14022
DE-AC05-76OR-00033 ..... 02 p0245 N84-11602
10 p1456 N84-19512
19 p3052 N84-29371
21 p3466 N84-31975
DE-AC05-76OR-00333 ..... 03 p0402 N84-12626
DE-AC05-76OR-02908 ..... 23 p3761 N84-33839
DE-AC05-78ET-53043 ..... 03 p0447 N84-12938
DE-AC05-78OR-03054 ..... 22 p3562 N84-32556
DE-AC05-79ER-10013 ..... 21 p3395 N84-31543
DE-AC05-79ET-53036 ..... 01 p0149 N84-10981
DE-AC05-81ER-10846 ..... 22 p3659 N84-33198
DE-AC05-82OR-20900 ..... 21 p3401 N84-31573
DE-AC05-83MA-40000 ..... 06 p0936 N84-16082
06 p0936 N84-16083
DE-AC05-84CR-21400 ..... 20 p3307 N84-31006
DE-AC05-84OR-21400 ..... 15 p2344 N84-25072
15 p2363 N84-25179
18 p2812 N84-27853
18 p2812 N84-27854
18 p2814 N84-27866
18 p2815 N84-27868
18 p2849 N84-28092
18 p2853 N84-28117
18 p2878 N84-28273
18 p2927 N84-28564
18 p2930 N84-28581
18 p2933 N84-28598
18 p2933 N84-28600
18 p2934 N84-28606
18 p2941 N84-28654
18 p2941 N84-28655
19 p3018 N84-29136
20 p3150 N84-29998
20 p3150 N84-30006
20 p3154 N84-30028
20 p3154 N84-30029
20 p3156 N84-30038
20 p3157 N84-30052
20 p3170 N84-30131
20 p3175 N84-30166
20 p3181 N84-30212
20 p3190 N84-30264
20 p3196 N84-30296
20 p3197 N84-30303
20 p3198 N84-30309
20 p3279 N84-30815
20 p3285 N84-30857
20 p3292 N84-30897
20 p3293 N84-30904
20 p3297 N84-30934
20 p3315 N84-31055
21 p3358 N84-31297
21 p3360 N84-31318
21 p3361 N84-31319
21 p3361 N84-31320
21 p3367 N84-31362
21 p3372 N84-31395
21 p3394 N84-31536
21 p3403 N84-31586
21 p3407 N84-31608
21 p3410 N84-31630
21 p3414 N84-31647
21 p3448 N84-31879
21 p3449 N84-31881
21 p3466 N84-31976
21 p3495 N84-32150
21 p3495 N84-32151
21 p3496 N84-32158
21 p3503 N84-32200
21 p3507 N84-32219
21 p3519 N84-32292
21 p3519 N84-32296
22 p3545 N84-32442
22 p3556 N84-32516
22 p3557 N84-32522
22 p3578 N84-32661
14 p2173 N84-24013
14 p2173 N84-24014
15 p2299 N84-24800
15 p2365 N84-25190
15 p2411 N84-25471
20 p3150 N84-30001
21 p3358 N84-31296
21 p3435 N84-31794
22 p3541 N84-32420

	22	p3588	N84-32724
	22	p3594	N84-32763
	22	p3595	N84-32765
	22	p3602	N84-32819
	22	p3641	N84-33089
	22	p3659	N84-33193
	22	p3659	N84-33195
	22	p3660	N84-33199
	22	p3660	N84-33204
	23	p3718	N84-33572
	23	p3719	N84-33575
	23	p3720	N84-33581
	23	p3727	N84-33617
	23	p3793	N34-34054
	23	p3793	N84-34055
	23	p3829	N84-34287
	24	p3962	N84-35091
DE-AC05-84OS-21400	19	p2986	N84-28923
	19	p3003	N84-29029
	22	p3605	N84-32837
	23	p3823	N84-34244
DE-AC05-84OT-21400	21	p3360	N84-31313
DE-AC05-76OR-00033	19	p3052	N84-29365
DE-AC05-84OR-21400	20	p3298	N84-30944
	21	p3414	N84-31646
DE-AC06-65RL-01830	20	p3145	N84-29967
	20	p3154	N84-30025
	20	p3238	N84-30557
DE-AC06-75RL-01830	14	p2180	N84-24056
DE-AC06-76BL-01857	02	p0232	N84-11523
DE-AC06-76ET-53027	01	p0150	N84-10989
DE-AC06-76FF-02170	01	p0082	N84-10530
	01	p0085	N84-10552
	02	p0198	N84-11273
	03	p0354	N84-12300
	03	p0385	N84-12510
	03	p0439	N84-12884
	03	p0446	N84-12935
	05	p0656	N84-14315
	05	p0693	N84-14553
	06	p0806	N84-15254
	06	p0806	N84-15255
	06	p0855	N84-15569
	06	p0855	N84-15570
	06	p0862	N84-15615
	07	p0975	N84-16320
	07	p0976	N84-16322
	07	p1083	N84-17045
	08	p1133	N84-17368
	08	p1135	N84-17379
	10	p1461	N84-19539
	10	p1462	N84-19547
	10	p1494	N84-19767
	11	p1709	N84-21138
	14	p2123	N84-23726
	14	p2223	N84-24343
	15	p2411	N84-25470
	20	p3155	N84-30034
	20	p3155	N84-30035
	20	p3198	N84-30314
	21	p3413	N84-31645
	21	p3469	N84-31989
	22	p3549	N84-32465
	22	p3555	N84-32513
	23	p3719	N84-33578
DE-AC06-76FP-02170	01	p0098	N84-10636
DE-AC06-76RL-01830	01	p0005	N84-10033
	01	p0017	N84-10107
	01	p0046	N84-10295
	01	p0053	N84-10341
	01	p0080	N84-10523
	01	p0091	N84-10596
	01	p0109	N84-10706
	01	p0109	N84-10707
	01	p0124	N84-10806
	01	p0145	N84-10956
	02	p0195	N84-11270
	02	p0197	N84-11280
	02	p0219	N84-11439
	02	p0256	N84-11676
	02	p0266	N84-11748
	02	p0266	N84-11749
	02	p0266	N84-11750
	02	p0285	N84-11870
	02	p0285	N84-11871
	02	p0292	N84-11915
	03	p0357	N84-12321
	03	p0404	N84-12643
	03	p0405	N84-12649
	03	p0406	N84-12655
	03	p0412	N84-12693
	03	p0412	N84-12694
	03	p0427	N84-12803
	03	p0428	N84-12804
	03	p0445	N84-12926
	03	p0458	N84-13014
	04	p0502	N84-13289
	04	p0502	N84-13291
	04	p0504	N84-13302
	04	p0504	N84-13303
	04	p0504	N84-13304
	04	p0507	N84-13325
	04	p0516	N84-13388
	04	p0538	N84-13542
	04	p0542	N84-13571
	04	p0554	N84-13651
	04	p0555	N84-13653
	04	p0564	N84-13720
	04	p0569	N84-13752
	04	p0571	N84-13762
	04	p0571	N84-13763
	04	p0581	N84-13836
	04	p0598	N84-13944
	04	p0610	N84-14026
	04	p0616	N84-14069
	05	p0759	N84-14981
	05	p0760	N84-14983
	06	p0880	N84-15726
	06	p0935	N84-16080
	07	p1082	N84-17039
	09	p1285	N84-18392
	09	p1326	N84-18662
	09	p1337	N84-18732
	09	p1346	N84-18794
	09	p1369	N84-18940
	10	p1472	N84-19612
	10	p1502	N84-19819
	10	p1529	N84-20019
	11	p1634	N84-20684
	11	p1688	N84-21011
	11	p1710	N84-21146
	12	p1837	N84-21973
	12	p1845	N84-22029
	12	p1864	N84-22144
	14	p2169	N84-23992
	15	p2288	N84-24726
	15	p2298	N84-24792
	15	p2359	N84-25158
	16	p2515	N84-26145
	18	p2931	N84-28585
	20	p3154	N84-30030
	20	p3158	N84-30058
	20	p3163	N84-30085
	20	p3187	N84-30250
	20	p3200	N84-30323
	20	p3237	N84-30547
	20	p3246	N84-30604
	20	p3248	N84-30612
	20	p3248	N84-30613
	20	p3267	N84-30730
	20	p3313	N84-31041
	21	p3371	N84-31389
	21	p3402	N84-31585
	21	p3406	N84-31607
	21	p3410	N84-31629
	21	p3448	N84-31875
	21	p3448	N84-31877
	21	p3494	N84-32142
	22	p3596	N84-32772
	22	p3599	N84-32791
	22	p3616	N84-32914
	22	p3626	N84-32976
	22	p3642	N84-33090
	22	p3655	N84-33166
	23	p3744	N84-33734
	23	p3791	N84-34042
	23	p3793	N84-34056
	23	p3824	N84-34251
	24	p3916	N84-34794
DE-AC06-76RL-01857	08	p1172	N84-17632
DE-AC06-77FF-02170	01	p0120	N84-10777
DE-AC06-77RL-01030	11	p1654	N84-20798
	20	p3198	N84-30308
DE-AC06-79ET-15322	21	p3367	N84-31363
DE-AC06-80ET-33067	02	p0227	N84-11488
DE-AC06-81ER-40048	03	p0434	N84-12846
	03	p0461	N84-13038
	03	p0476	N84-13134
	05	p0745	N84-14895
	05	p0764	N84-15009
	06	p0916	N84-15954
	07	p1090	N84-17088
	22	p3681	N84-33335
DE-AC07-76GJ-01664	22	p3548	N84-32462
DE-AC07-76ID-01570	01	p0051	N84-10328
	01	p0080	N84-10518
	01	p0082	N84-10531
	01	p0151	N84-10992
	02	p0269	N84-11763
	02	p0274	N84-11789
	02	p0274	N84-11791
	02	p0274	N84-11794
	03	p0438	N84-12873
	04	p0499	N84-13273
	04	p0534	N84-13511
	04	p0537	N84-13531
	06	p0804	N84-15240
	10	p1494	N84-19766
	11	p1634	N84-20680
	11	p1657	N84-20813
	11	p1661	N84-20838
	11	p1674	N84-20921
	11	p1706	N84-21136
	11	p1709	N84-21143
	11	p1710	N84-21144
	12	p1802	N84-21748
	13	p1994	N84-22940
	15	p2365	N84-25189
	20	p3164	N84-30092
	20	p3274	N84-30787
	21	p3361	N84-31321
	21	p3362	N84-31328
	21	p3372	N84-31396
	21	p3401	N84-31578
	21	p3414	N84-31649
	21	p3415	N84-31657
	21	p3423	N84-31714
	21	p3519	N84-32291
	21	p3519	N84-32294
	21	p3519	N84-32295
	22	p3557	N84-32523
	22	p3675	N84-33300
	23	p3791	N84-34043
DE-AC07-79ET-27014	15	p2368	N84-25211
	19	p3055	N84-29384
	20	p3229	N84-30519
	21	p3431	N84-31771
	21	p3432	N84-31773
	21	p3445	N84-31856
	23	p3784	N84-33999
DE-AC07-79ID-01675	20	p3190	N84-30263
DE-AC07-79ID-12079	20	p3241	N84-30579
	21	p3431	N84-31769
	21	p3444	N84-31853
DE-AC07-80ID-12099	12	p1844	N84-22021
DE-AC07-82ID-12239	11	p1653	N84-20793
DE-AC08-79ET-27111	10	p1526	N84-19996
DE-AC08-79ET-27112	12	p1836	N84-21972
DE-AC08-80DP-40124	07	p1053	N84-16817
	10	p1501	N84-19807
	14	p2230	N84-24375
	19	p3030	N84-29218
	20	p3301	N84-30960
	20	p3306	N84-31000
	20	p3306	N84-31001
	20	p3307	N84-31005
	21	p3501	N84-32188
	21	p3501	N84-32190
DE-AC08-81DP-40156	04	p0610	N84-14025
DE-AC08-81NV-10162	02	p0256	N84-11678
	04	p0554	N84-13649
DE-AC08-81NV-10174	05	p0704	N84-14619
DE-AC08-81VN-10162	02	p0219	N84-11434
DE-AC08-82DP-40152	04	p0542	N84-13570
	04	p0611	N84-14032
	20	p3163	N84-30088
	20	p3191	N84-30269
	20	p3193	N84-30276
	20	p3303	N84-30974
DE-AC08-83DP-40178	02	p0227	N84-11486
	19	p3030	N84-29217
DE-AC08-83NV-10282	02	p0299	N84-11968
	03	p0441	N84-12898
	04	p0554	N84-13650
	12	p1819	N84-21856
	21	p3406	N84-31605
	21	p3409	N84-31624
DE-AC09-76SF-00001	08	p1160	N84-17550
DE-AC09-76SR-00001	01	p0091	N84-10591
	02	p0292	N84-11916
	03	p0354	N84-12301
	03	p0355	N84-12309
	03	p0389	N84-12539
	04	p0535	N84-13517
	04	p0564	N84-13715
	06	p0805	N84-15245
	06	p0894	N84-15810
	07	p0976	N84-16325
	11	p1666	N84-20869
	11	p1672	N84-20909
	11	p1705	N84-21112
	11	p1712	N84-21158
	14	p2128	N84-23758
	20	p3198	N84-30313
	21	p3414	N84-31648
	21	p3466	N84-31977
	22	p3605	N84-32838
	23	p3715	N84-33547

DE-AC09-81SR-10957 ..... 19 p3073 N84-29497
DE-AC12-76SN-00052 ..... 13 p1965 N84-22766
18 p2853 N84-28116
18 p2921 N84-28526
23 p3743 N84-33726
23 p3751 N84-33782
23 p3752 N84-33783
DE-AC13-76GJ-01664 ..... 04 p0554 N84-13647
06 p0866 N84-15638
DE-AC15-76CL-02395 ..... 07 p1017 N84-16595
DE-AC15-76CL-50003 ..... 07 p1017 N84-16595
07 p1034 N84-16709
DE-AC19-80BC-10114 ..... 04 p0545 N84-13587
DE-AC19-80BC-10257 ..... 09 p1316 N84-18601
DE-AC20-79ET-14102 ..... 01 p0053 N84-10345
DE-AC21-79ET-15457 ..... 18 p2815 N84-27870
23 p3719 N84-33579
DE-AC21-80ET-14705 ..... 22 p3594 N84-32762
DE-AC21-81FE-15078 ..... 22 p3589 N84-32733
DE-AC21-81MC-16021 ..... 18 p2876 N84-28261
DE-AC21-81MC-16537 ..... 04 p0494 N84-13242
DE-AC21-83MC-20037 ..... 23 p3803 N84-34116
DE-AC21-83MC-20212 ..... 20 p3234 N84-30531
DE-AC22-80ET-15611 ..... 15 p2411 N84-25474
DE-AC22-80PC-30026 ..... 20 p3187 N84-30251
DE-AC22-80PC-30204 ..... 05 p0651 N84-14283
DE-AC22-80PC-30300 ..... 13 p1943 N84-22633
DE-AC22-81PC-40273 ..... 13 p1943 N84-22635
DE-AC22-81PC-40276 ..... 02 p0191 N84-11242
DE-AC22-82FE-80148 ..... 22 p3549 N84-32468
DE-AC22-83PC-80019 ..... 20 p3166 N84-30108
DE-AC79-80BP-17530 ..... 19 p3059 N84-29409
DE-AC79-81BP-29182 ..... 23 p3691 N84-33392
DE-AC79-82BP-34337 ..... 21 p3448 N84-31880
DE-AIO1076PR-06010 ..... 16 p2514 N84-26135
DE-AI01-76ET-20319 ..... 01 p0090 N84-10587
DE-AI01-76ET-20320 ..... 01 p0102 N84-10661
05 p0699 N84-14586
08 p1149 N84-17479
17 p2722 N84-27327
17 p2723 N84-27328
19 p3049 N84-29347
19 p3050 N84-29357
21 p3433 N84-31783
DE-AI01-76ET-20356 ..... 07 p1025 N84-16643
12 p1801 N84-21741
12 p1838 N84-21980
12 p1842 N84-22008
12 p1842 N84-22009
12 p1912 N84-22460
15 p2364 N84-25186
18 p2868 N84-28210
18 p2870 N84-28220
18 p2935 N84-28614
20 p3150 N84-30000
20 p3309 N84-31019
22 p3582 N84-32683
22 p3617 N84-32920
22 p3617 N84-32921
22 p3618 N84-32922
22 p3662 N84-33213
22 p3675 N84-33299
23 p3786 N84-34013
DE-AI01-76PR-06010 ..... 16 p2474 N84-25861
16 p2517 N84-26160
20 p3309 N84-31016
DE-AI01-77CS-1040 ..... 06 p0852 N84-15554
DE-AI01-77CS-51040 ..... 01 p0089 N84-10581
05 p0761 N84-14989
06 p0805 N84-15246
07 p1016 N84-16589
08 p1242 N84-18117
11 p1753 N84-21445
16 p2464 N84-25793
16 p2569 N84-26484
18 p2849 N84-28089
19 p2992 N84-28961
19 p2992 N84-28962
19 p2992 N84-28963
21 p3521 N84-32305
22 p3677 N84-33307
24 p3883 N84-34603
DE-AI01-77CS-51044 ..... 01 p0069 N84-10450
04 p0617 N84-14071
07 p1088 N84-17073
09 p1406 N84-19185
10 p1529 N84-20014
10 p1529 N84-20016
10 p1529 N84-20017
15 p2361 N84-25166
18 p2821 N84-27909
DE-AI01-77DP-40042 ..... 04 p0540 N84-13556
04 p0541 N84-13565
DE-AI01-77ET-13111 ..... 21 p3434 N84-31784
23 p3790 N84-34038
DE-AI01-77ET-20342 ..... 15 p2364 N84-25182
DE-AI01-77ET-28383 ..... 22 p3615 N84-32902
DE-AI01-78CS-54209 ..... 18 p2947 N84-28682
23 p3743 N84-33725
23 p3744 N84-33733
DE-AI01-79ET-20305 ..... 04 p0557 N84-13670
DE-AI01-79ET-20320 ..... 01 p0102 N84-10664
DE-AI01-79ET-20485 ..... 16 p2483 N84-25926
DE-AI01-79ET-25204 ..... 01 p0075 N84-10493
DE-AI01-79ET-29372 ..... 18 p2869 N84-28211
DE-AI01-80CS-50194 ..... 16 p2438 N84-25644
21 p3521 N84-32306
22 p3676 N84-33304
22 p3677 N84-33309
23 p3836 N84-34330
23 p3836 N84-34331
DE-AI01-80CS-50294 ..... 22 p3676 N84-33306
DE-AI01-80ET-17088 ..... 01 p0102 N84-10665
02 p0241 N84-11581
04 p0557 N84-13672
04 p0557 N84-13673
17 p2723 N84-27329
DE-AI01-81CS-50006 ..... 05 p0699 N84-14587
14 p2131 N84-23775
17 p2628 N84-26813
19 p2992 N84-28960
23 p3790 N84-34036
DE-AI01-81CS-66001 ..... 07 p1025 N84-16642
12 p1842 N84-22012
15 p2361 N84-25167
18 p2868 N84-28207
DE-AI01-81CS-90103 ..... 22 p3677 N84-33308
DE-AI01-82CS-50286 ..... 10 p1470 N84-19603
DE-AI01-82ER-53125 ..... 12 p1910 N84-22448
DE-AI01-82ER-60059 ..... 12 p1861 N84-22125
14 p2180 N84-24055
DE-AI01-82ER-60082 ..... 12 p1847 N84-22043
DE-AI01-82NE-50004 ..... 03 p0381 N84-12479
DE-AI02-80CS-83116 ..... 21 p3505 N84-32211
DE-AI04-80AL-12726 ..... 02 p0241 N84-11579
02 p0241 N84-11580
19 p3050 N84-29358
DE-AI05-76EV-03688 ..... 04 p0568 N84-13743
DE-AI05-82OR-1005 ..... 12 p1921 N84-22512
14 p2249 N84-24509
DE-AI07-80ID-12138 ..... 18 p2836 N84-28003
DE-AI08-76DP-00474 ..... 03 p0409 N84-12673
DE-AI08-78ET-44802 ..... 04 p0564 N84-13716
10 p1526 N84-19995
15 p2369 N84-25213
20 p3242 N84-30584
20 p3247 N84-30610
23 p3796 N84-34085
DE-AI08-79DP-40092 ..... 01 p0149 N84-10977
01 p0150 N84-10984
04 p0528 N84-13470
04 p0529 N84-13483
06 p0921 N84-15989
06 p0921 N84-15991
07 p0998 N84-16474
07 p1076 N84-16997
20 p3195 N84-30290
20 p3305 N84-30995
DE-AI08-79DT-40092 ..... 05 p0749 N84-14919
DE-AI21-80ET-17088 ..... 01 p0102 N84-10663
09 p1341 N84-18757
15 p2362 N84-25169
16 p2518 N84-26165
23 p3790 N84-34037
DE-AI21-83MC-20022 ..... 16 p2534 N84-26268
DE-AI22-82PC-53141 ..... 12 p1845 N84-22030
DE-AL02-82ER-12046 ..... 14 p2212 N84-24284
24 p3952 N84-35025
DE-AM03-76SF-00034 ..... 01 p0133 N84-10873
04 p0572 N84-13766
08 p1232 N84-18055
08 p1233 N84-18056
22 p3660 N84-33202
DE-AM03-76SF-00326 ..... 01 p0124 N84-10808
01 p0124 N84-10811
01 p0135 N84-10883
02 p0274 N84-11792
02 p0283 N84-11854
03 p0421 N84-12751
05 p0717 N84-14694
08 p1126 N84-17317
11 p1709 N84-21140
11 p1719 N84-21211
12 p1897 N84-22355
20 p3274 N84-30784
DE-AM03-76SF-00700 ..... 16 p2513 N84-26125
DE-AM03-76SF-00767 ..... 05 p0699 N84-14589
06 p0811 N84-15278
DE-AM03-76SR-00767 ..... 21 p3401 N84-31572
DE-AM04-80AF-13137 ..... 18 p2870 N84-28218
DE-AM04-80AL-13137 ..... 18 p2869 N84-28212
18 p2870 N84-28217
18 p2871 N84-28223
18 p2871 N84-28224
22 p3616 N84-32915
22 p3617 N84-32916
22 p3617 N84-32917
22 p3617 N84-32918
22 p3617 N84-32919
DE-AM06-76PR-0225 ..... 11 p1743 N84-21372
DE-AS03-76SF-00034 ..... 20 p3150 N84-30003
DE-AS03-76SF-00767 ..... 14 p2213 N84-24292
DE-AS03-79ER-10358 ..... 01 p0133 N84-10873
DE-AS05-76ER-02408 ..... 09 p1388 N84-19063
DE-AS05-76ER-03992 ..... 02 p0291 N84-11911
04 p0593 N84-13913
04 p0620 N84-14093
05 p0747 N84-14909
06 p0826 N84-15383
19 p3102 N84-29707
20 p3282 N84-30839
20 p3297 N84-30933
DE-AS05-76ER-04043 ..... 03 p0434 N84-12844
DE-AS05-76ER-04936 ..... 10 p1456 N84-19512
DE-AS05-76ER-05034 ..... 10 p1456 N84-19512
DE-AS05-76ER-05111 ..... 21 p3367 N84-31357
DE-AS05-76ER-05126 ..... 20 p3296 N84-30926
DE-AS05-76ER-05223 ..... 22 p3654 N84-33161
DE-AS05-76ET-53045 ..... 17 p2757 N84-27505
DE-AS05-76EV-03018 ..... 07 p1043 N84-16761
DE-AS05-76EV-03408 ..... 04 p0572 N84-13785
DE-AS05-77ER-05490 ..... 12 p1903 N84-22392
DE-AS05-77ER-05528 ..... 14 p2244 N84-24472
DE-AS05-78ER-05776 ..... 10 p1589 N84-20417
DE-AS05-78ER-05940 ..... 08 p1229 N84-18032
DE-AS05-78ER-05951 ..... 21 p3368 N84-31368
DE-AS05-78ER-06035 ..... 22 p3556 N84-32516
DE-AS05-78ER-06036 ..... 01 p0144 N84-10946
DE-AS05-78ET-10747 ..... 04 p0504 N84-13301
DE-AS05-78ET-52025 ..... 03 p0445 N84-12922
05 p0750 N84-14926
20 p3306 N84-30996
21 p3501 N84-32191
21 p3502 N84-32197
DE-AS05-79ER-10332 ..... 12 p1902 N84-22388
DE-AS05-79ER-10361 ..... 08 p1188 N84-17740
DE-AS05-79ER-10399 ..... 11 p1629 N84-20659
DE-AS05-79ER-10419 ..... 08 p1230 N84-18038
DE-AS05-79ER-10448 ..... 03 p0456 N84-13004
DE-AS05-79ER-10459 ..... 15 p2415 N84-25499
DE-AS05-79ER-10475 ..... 10 p1462 N84-19552
DE-AS05-79ER-10477 ..... 19 p2990 N84-28945
DE-AS05-79ER-10512 ..... 19 p3102 N84-29708
DE-AS05-80ER-10578 ..... 04 p0541 N84-13558
DE-AS05-80ER-10618 ..... 07 p0971 N84-16290
07 p1073 N84-16970
DE-AS05-80ER-10635 ..... 11 p1629 N84-20662
DE-AS05-80ER-10655 ..... 15 p2413 N84-25490
DE-AS05-80ER-10666 ..... 11 p1716 N84-21196
DE-AS05-80ER-10711 ..... 10 p1590 N84-20422
20 p3282 N84-30838
DE-AS05-81ER-10959 ..... 14 p2243 N84-24467
DE-AS05-81ER-40003 ..... 09 p1388 N84-19064
DE-AS05-81ER-40008 ..... 01 p0156 N84-11028
02 p0292 N84-11912
15 p2399 N84-25395
DE-AS05-81ER-40039 ..... 22 p3655 N84-33167
DE-AS05-81ER-53117 ..... 14 p2229 N84-24370
DE-AS05-82ER-12022 ..... 09 p1260 N84-18223
10 p1494 N84-19768
DE-AS05-82ER-12044 ..... 07 p0979 N84-16345
DE-AS05-82ER-12061 ..... 18 p2941 N84-28653
DE-AS05-82ER-12098 ..... 03 p0354 N84-12305
DE-AS05-82ER-13008 ..... 04 p0536 N84-13524
DE-AS05-82ER-40074 ..... 12 p1902 N84-22387
DE-AS05-82NE-37900 ..... 07 p0976 N84-16324
11 p1635 N84-20687
DE-AS05-83ER-13127 ..... 20 p3195 N84-30291
DE-AS05-83ER-45045 ..... 14 p2121 N84-23710
DE-AS05-83FR-45039 ..... 21 p3368 N84-31366
DE-AS07-77ET-28407 ..... 20 p3229 N84-30517
DE-AS07-78ID-01717 ..... 10 p1526 N84-19997
DE-AS07-79ET-27205 ..... 20 p3229 N84-30518
DE-AS07-79ID-12057 ..... 20 p3241 N84-30578
21 p3445 N84-31858
DE-AS08-81DP-40128 ..... 01 p0148 N84-10973
DE-AS08-81DP-40135 ..... 01 p0088 N84-10572
20 p3307 N84-31004
DE-AS08-81DP-40142 ..... 18 p2847 N84-28076
DE-AS08-81DP-40153 ..... 18 p2934 N84-28604
DE-AS08-81DP-40157 ..... 12 p1910 N84-22444
DE-AS08-81DP-40160 ..... 18 p2933 N84-28602
DE-AS08-81DP-40163 ..... 11 p1663 N84-20854
11 p1738 N84-21336
DE-AS08-81DP-40167 ..... 18 p2847 N84-28077
DE-AS08-83DP-40179 ..... 19 p3105 N84-29728
DE-AS09-76ER-00854 ..... 01 p0051 N84-10327

DE-AS09-76EV-00901	11	p1692	N84-21034
DE-AS09-76EV-00902	20	p3251	N84-30635
DE-AS09-76EV-00936	11	p1692	N84-21035
DE-AS09-80ER-10671	10	p1456	N84-19510
DE-AS09-83ER-13098	19	p3103	N84-29711
DE-AS19-80BC-10321	04	p0507	N84-13324
DE-AS19-80BC-10343	01	p0091	N84-10594
DE-AS20-82LC-10886	20	p3242	N84-30585
DE-AT03-S1ER-40029	12	p1903	N84-22393
DE-AT03-76ER-10369	20	p3150	N84-30003
DE-AT03-76ER-70057	12	p1798	N84-21731
DE-AT03-76ER-70058	08	p1126	N84-17320
DE-AT03-76ER-70068	08	p1126	N84-17317
DE-AT03-76ER-70185	04	p0572	N84-13766
DE-AT03-76ER-70217	04	p0601	N84-13971
DE-AT03-76ER-70278	03	p0382	N84-12487
DE-AT03-76ER-70286	02	p0290	N84-11899
DE-AT03-76ER-71013	04	p0494	N84-13243
DE-AT03-76ER-71043	23	p3830	N84-34296
DE-AT03-76ER-72012	21	p3401	N84-31572
DE-AT03-76ER-72018	01	p0124	N84-10808
	01	p0124	N84-10811
	01	p0135	N84-10883
	02	p0274	N84-11792
	02	p0283	N84-11854
	03	p0421	N84-12751
	03	p0421	N84-12752
	05	p0717	N84-14694
	07	p1084	N84-16902
	11	p1709	N84-21140
	11	p1719	N84-21211
	12	p1897	N84-22355
	22	p3642	N84-33092
DE-AT03-76ER-75016	13	p1965	N84-22765
	14	p2130	N84-23770
DE-AT03-76ET-35301	01	p0082	N84-10534
	01	p0082	N84-10535
DE-AT03-76ET-51011	02	p0299	N84-11962
	03	p0429	N84-12815
	03	p0445	N84-12927
	03	p0448	N84-12949
	03	p0450	N84-12957
	04	p0608	N84-14014
	05	p0750	N84-14923
	05	p0751	N84-14929
DE-AT03-76ET-53064	10	p1570	N84-20287
	10	p1570	N84-20288
	10	p1585	N84-20388
	10	p1585	N84-20389
DE-AT03-80ER-10708	20	p3159	N84-30059
	20	p3163	N84-30089
DE-AT03-80ER-52061	08	p1232	N84-18055
	21	p3502	N84-32196
DE-AT03-80ET-27252	22	p3564	N84-32571
	22	p3564	N84-32573
	22	p3564	N84-32574
DE-AT03-81ER-10865	20	p3189	N84-30259
DE-AT03-81ER-10870	06	p0811	N84-15278
DE-AT03-81ER-10934	12	p1915	N84-22478
DE-AT03-81NE-33080	01	p0154	N84-11015
DE-AT03-82ER-12023	02	p0219	N84-11436
DE-AT03-82ER-12063	23	p3720	N84-33580
DE-AT03-82ER-52081	18	p2815	N84-27871
DE-AT03-82ER-54010	08	p1233	N84-18056
DE-AT03-82SF-11687	04	p0603	N84-13979
	04	p0603	N84-13984
	08	p1231	N84-18045
DE-AT03-84ER-51044	21	p3501	N84-32186
DE-AT03-84ER-53158	15	p2410	N84-25469
	19	p3108	N84-29750
	20	p3282	N84-30841
	20	p3303	N84-30976
	20	p3305	N84-30993
	22	p3659	N84-33197
DE-AT03-84SF-11962	18	p2814	N84-27867
DE-AT03-84SF-11963	22	p3605	N84-32842
DE-AT03-60090	21	p3493	N84-32137
DE-AT04-81AL-16228	12	p1841	N84-22004
	12	p1842	N84-22010
DE-AT06-76ER-70004	02	p0291	N84-11909
	03	p0437	N84-12871
DE-AT06-76ER-70006	02	p0250	N84-11636
DE-AT06-81AL-16228	07	p1025	N84-16644
DE-AT06-83ER-45038	22	p3665	N84-33237
DE-AT06-83ER-60108	22	p3549	N84-32466
DE-A01-80RA5236	13	p2034	N84-23193
DE-A101-78CS-54209	18	p2833	N84-27982
DE-BM-J0-113009	08	p1206	N84-17865
DE-FC01-79ER-10000	08	p1180	N84-17690
	08	p1181	N84-17693
DE-FC01-83FE-60149	20	p3166	N84-30106
DE-FC03-80ER-10692	06	p0822	N84-15358
DE-FC03-80RA-50075	21	p3431	N84-31770
	21	p3444	N84-31852
DE-FC04-80CS-30264	03	p0403	N84-12639
DE-FC05-77ET-10069	03	p0351	N84-12281
DE-FC07-79ID-12038	02	p0240	N84-11575
DE-FC07-82ID-12423	10	p1456	N84-19507
DE-FC08-80NV-10113	21	p3522	N84-32309
DE-FC21-83FE-60181	22	p3543	N84-32432
DE-FG01-80CS-15022	15	p2344	N84-25071
DE-FG01-80CS-40338	06	p0810	N84-15277
DE-FG01-80IR-10321	01	p0057	N84-10374
DE-FG01-81CS-15040	03	p0384	N84-12499
DE-FG01-81CS-15074	20	p3179	N84-30195
DE-FG01-81ER-12001	14	p2214	N84-24301
	23	p3819	N84-34222
DE-FG01-81ER-60021	11	p1672	N84-20913
DE-FG01-82CE-15146	06	p0822	N84-15359
DE-FG02-79ER-10531	22	p3618	N84-32925
DE-FG02-79ER-10534	15	p2330	N84-24990
	15	p2330	N84-24991
DE-FG02-79ER-10535	22	p3666	N84-33240
DE-FG02-79ER-10536	15	p2414	N84-25495
	15	p2414	N84-25497
DE-FG02-79ER-10545	14	p2173	N84-24015
DE-FG02-79ET-00088	19	p3112	N84-29771
DE-FG02-80CS-83105	14	p2143	N84-23849
DE-FG02-80CS-83106	11	p1745	N84-21387
DE-FG02-80CS-83111	10	p1530	N84-20021
DE-FG02-80CS-83114	11	p1674	N84-20923
DE-FG02-80CS-84054	19	p3025	N84-29184
DE-FG02-81CS-30834	16	p2513	N84-26127
DE-FG02-81ER-10961	03	p0403	N84-12638
DE-FG02-81R5-10309	11	p1674	N84-20922
DE-FG02-81R5-10326	06	p0851	N84-15551
DE-FG02-82CE-30748	16	p2516	N84-26149
DE-FG02-82ER-12020	04	p0537	N84-13532
DE-FG02-83ER-40088	20	p3294	N84-30914
DE-FG03-81ER-10250	23	p3784	N84-34000
DE-FG03-84CE-50036	21	p3374	N84-31412
DE-FG05-80ET-53088	01	p0149	N84-10980
	01	p0149	N84-10981
	01	p0150	N84-10987
	02	p0287	N84-11880
	04	p0609	N84-14020
	04	p0609	N84-14021
	04	p0610	N84-14024
	04	p0610	N84-14027
	04	p0621	N84-14099
	06	p0921	N84-15985
	06	p0921	N84-15987
	06	p0921	N84-15988
	06	p0921	N84-15990
	07	p1077	N84-17003
	09	p1393	N84-19093
	11	p1737	N84-21335
	12	p1910	N84-22443
	12	p1911	N84-22448
	14	p2229	N84-24367
	14	p2229	N84-24369
	14	p2230	N84-24378
	20	p3285	N84-30859
	20	p3307	N84-31003
DE-FG05-82ER-40058	08	p1230	N84-18039
DE-FG06-79R0-00003	21	p3375	N84-31415
DE-FG07-81ID-12327	02	p0203	N84-11326
DE-FG07-81ID-12337	02	p0204	N84-11327
DE-FG22-80PC-30247	03	p0349	N84-12271
DE-FG22-80PC-30303	11	p1653	N84-20794
DE-FG22-81PC-40277	12	p1803	N84-21755
DE-FG22-81PC-40809	01	p0038	N84-10240
	07	p0972	N84-16302
DE-FG22-82PC-50796	10	p1494	N84-19771
	20	p3185	N84-30241
DE-FG22-82PC-50800	03	p0373	N84-12432
	07	p1081	N84-17030
DE-FG22-82PC-50804	15	p2288	N84-24727
DE-FG22-82PC-50810	20	p3166	N84-30109
DE-FG22-83PC-60783	21	p3362	N84-31330
DE-FG22-83PC-60807	15	p2287	N84-24724
	21	p3360	N84-31312
DE-FG44-80R4-10224	04	p0559	N84-13686
DE-FG44-80R4-10243	04	p0544	N84-13586
DE-FG44-80R4-10249	05	p0676	N84-14448
DE-FG44-81R-410435	04	p0558	N84-13677
DE-FG44-81R4-10406	06	p0813	N84-15291
DE-FG44-81R4-10432	07	p0999	N84-16479
DE-FG44-81R4-10464	05	p0688	N84-14523
DE-FG45-80CS-69105	10	p1531	N84-20027
DE-FG46-79R6-10997	07	p1026	N84-16647
DE-FG46-80R6-12053	07	p1008	N84-16536
DE-FG46-80R6-12054	22	p3594	N84-32761
DE-FG47-80R7-01109	12	p1843	N84-22013
DE-FG47-81R7-01219	20	p3247	N84-30606
DE-FG47-81R7-01221	19	p3051	N84-29363
	20	p3236	N84-30545
	20	p3237	N84-30546
DE-FG47-81R7-01250	21	p3507	N84-32218
DE-FG97-80ET-46630	04	p0555	N84-13654
DEAG29-82-K-0178	23	p3820	N84-34223
DEN3-32	08	p1242	N84-18117
	21	p3521	N84-32305
	22	p3677	N84-33307
DEN3-65	01	p0069	N84-10450
DEN3-156	06	p0873	N84-15679
DEN3-167	19	p3117	N84-29805
DEN3-168	01	p0088	N84-10581
	06	p0852	N84-15554
	18	p2849	N84-28089
DEN3-189	04	p0617	N84-14071
DEN3-201	15	p2362	N84-25169
DEN3-205	16	p2518	N84-26165
DEN3-211	21	p3390	N84-31514
DEN3-235	11	p1753	N84-21445
DEN3-238	15	p2361	N84-25163
DEN3-240	15	p2361	N84-25162
DEN3-241	02	p0241	N84-11581
	04	p0557	N84-13672
	04	p0557	N84-13673
	11	p1673	N84-20915
	17	p2723	N84-27329
DEN3-249	07	p1088	N84-17073
DEN3-250	02	p0241	N84-11580
DEN3-257	21	p3434	N84-31784
DEN3-258	10	p1529	N84-20014
DEN3-263	19	p2992	N84-28960
DEN3-264	19	p3050	N84-29358
DEN3-275	19	p3050	N84-29357
DEN3-287	12	p1822	N84-21877
DEN3-291	09	p1341	N84-18757
DEN3-295	05	p0699	N84-14587
DEN3-300	22	p3676	N84-33304
DEN3-301	05	p0761	N84-14991
DEN3-302	21	p3521	N84-32306
DEN3-303	19	p2992	N84-28961
DEN3-304	21	p3521	N84-32307
DEN3-323	22	p3677	N84-33309
DEN3-324	23	p3836	N84-34331
DEN3-327	23	p3790	N84-34036
DEN3-354	19	p3050	N84-29357
DEN3-954	21	p3433	N84-31783
DE84-003087	20	p3242	N84-30585
DE84-011790	22	p3626	N84-32974
DFG-AR-44/42	16	p2502	N84-26056
DFG-AR-44/43	16	p2484	N84-25929
DFG-AR-44/49	16	p2557	N84-26402
DFG-AR-44/53	16	p2484	N84-25929
DFG-BR-201/16	02	p0181	N84-11180
DFG-DA-64/22	02	p0221	N84-11447
DFG-DA-64/26	02	p0221	N84-11447
DFG-DA-64/28	02	p0221	N84-11447
DFG-DR-131/4-1	24	p3979	N84-35202
DFG-FR-325/21-1	24	p3971	N84-35148
DFG-GA-187/9	12	p1823	N84-21887
DFG-GA-187/12	12	p1823	N84-21887
DFG-GA-187/14	12	p1823	N84-21887
DFG-HA-515/57	23	p3691	N84-33393
DFG-IHD-SB-74-SU-40/20	02	p0253	N84-11654
DFG-SFB-72	17	p2689	N84-27022
DFG-SFB-132	24	p3970	N84-35139
DFG-131/5-1	24	p3979	N84-35202
DFGH61-80-C-00143	08	p1142	N84-17426
DFVLR-3-719-101	12	p1782	N84-21626
DFVLR-232-11	12	p1782	N84-21626
DGR-481/179	20	p3299	N84-30950
DGR-481/203	19	p3062	N84-29431
DI-BM-J0-100011	17	p2681	N84-27075
DI-BM-J0-100068	17	p2748	N84-27447
DI-BM-J0-113009	08	p1206	N84-17866
	08	p1206	N84-17867
	08	p1207	N84-17868
DI-BM-J0-134014	20	p3159	N84-30062
DI-BM-J0-275010	08	p1180	N84-17685
DI-BM-J0-318071	17	p2639	N84-26886
DI-YA512-CT9-66	10	p1538	N84-20078
DI-1-07-81-V-0230	21	p3432	N84-31778
DI-2-07-81-V0256	17	p2735	N84-27384
DI-7-07-83-V0001	08	p1192	N84-17770
DI-9-07-85-V0021	08	p1194	N84-17782
DI-07-83-V0008	11	p1688	N84-21012
DI-12-14-5001-38	04	p0552	N84-13637
	06	p0865	N84-15633
DI-14-08-0001-G-824	21	p3446	N84-31862
DI-14-08-0001-19720	08	p1185	N84-17723
DI-14-12-0001-29178	17	p2738	N84-27391
	17	p2738	N84-27392
	17	p2738	N84-27393
DI-14-12-0001-29201	21	p3451	N84-31899
DI-14-12-0001-30025	16	p2534	N84-26269
DI-14-16-0009-80073	02	p0245	N84-11604
DI-14-34-0001-0216	01	p0112	N84-10730
DI-14-34-0001-0232	04	p0555	N84-13658
DI-14-34-0001-0447	01	p0039	N84-10246
DI-14-34-0001-0529	17	p2725	N84-27347
DI-14-34-0001-1103	08	p1179	N84-17684
	20	p3230	N84-30527
DI-14-34-0001-1128	01	p0110	N84-10714

DI-14-34-0001-1154	10	p1533	N84-20039
DI-14-34-0001-1231	11	p1672	N84-20912
DI-14-34-0001-1436	11	p1630	N84-20684
DI-14-34-0001-1449	03	p0351	N84-12284
DI-14-34-0001-1466	20	p3230	N84-30526
DI-14-34-0001-2101	04	p0496	N84-13257
DI-14-34-0001-2107	20	p3257	N84-30674
DI-14-34-0001-2108	09	p1343	N84-18770
DI-14-34-0001-2110	05	p0698	N84-14580
DI-14-34-0001-2113	04	p0517	N84-13394
DI-14-34-0001-2114	01	p0101	N84-10655
DI-14-34-0001-2120	05	p0698	N84-14581
	22	p3615	N84-32904
DI-14-34-0001-2122	22	p3628	N84-32967
DI-14-34-0001-2135	06	p0867	N84-15645
DI-14-34-0001-2143	08	p1192	N84-17767
DI-14-34-0001-2151	10	p1527	N84-20007
DI-14-34-0001-2154	03	p0403	N84-12633
DI-14-34-0001-7525	22	p3549	N84-32471
DI-14-34-0001-8527	17	p2620	N84-26769
DI-14-34-0001-9030	05	p0697	N84-14579
DI-14-34-0001-9036	01	p0039	N84-10248
DI-14-34-0001-9262	04	p0517	N84-13394
DLA900-79-C-1007	05	p0655	N84-14306
DLA900-79-C-1266	09	p1325	N84-18655
DLR-11.0120	10	p1496	N84-19780
DMA800-78-C-0060	17	p2718	N84-27302
DNA PROJ. G52-AAXE	02	p0210	N84-11369
DNA PROJ. I25-AAXH	11	p1683	N84-20983
DNA PROJ. I25-AAXY	01	p0066	N84-10432
	09	p1345	N84-18784
DNA PROJ. I25-BMXI	13	p1996	N84-22952
	22	p3658	N84-33190
DNA PROJ. N99-QAXA	01	p0095	N84-10621
DNA PROJ. S99-QAXH	02	p0249	N84-11630
DNA PROJ. S99-QMXB	01	p0105	N84-10682
	13	p2011	N84-23047
	19	p3107	N84-29739
	22	p3659	N84-33191
DNA PROJ. T99-QAXL	08	p1209	N84-17886
DNA PROJ. X99-QAXV	02	p0292	N84-11914
	03	p0360	N84-12339
DNA PROJ. Y99-QAXS	01	p0096	N84-10624
	03	p0389	N84-12534
DNA PROJ. 99-QAXH	09	p1300	N84-18502
DNA001-51-C-0010	06	p0867	N84-15650
DNA001-78-C-0287	01	p0095	N84-10621
DNA001-79-C-0083	21	p3353	N84-31268
DNA001-79-C-0189	02	p0295	N84-11937
DNA001-79-C-0210	02	p0210	N84-11369
DNA001-80-C-0056	01	p0124	N84-10804
DNA001-80-C-0096	01	p0149	N84-10979
DNA001-80-C-0140	02	p0292	N84-11914
DNA001-80-C-0294	01	p0067	N84-10440
DNA001-81-C-0006	12	p1807	N84-21781
DNA001-81-C-0010	13	p1983	N84-22873
DNA001-81-C-0048	01	p0096	N84-10624
	03	p0388	N84-12533
	03	p0389	N84-12534
DNA001-81-C-0061	12	p1910	N84-22441
DNA001-81-C-0067	11	p1694	N84-21054
DNA001-81-C-0076	01	p0106	N84-10688
	02	p0249	N84-11630
DNA001-81-C-0092	02	p0249	N84-11632
DNA001-81-C-0130	01	p0066	N84-10432
DNA001-81-C-0151	02	p0249	N84-11628
DNA001-81-C-0175	03	p0360	N84-12339
DNA001-81-C-0189	11	p1683	N84-20983
DNA001-81-C-0281	13	p1986	N84-22894
DNA001-82-C-0015	18	p2811	N84-27847
DNA001-82-C-0021	01	p0106	N84-10689
	09	p1345	N84-18784
DNA001-82-C-0043	01	p0096	N84-10627
DNA001-82-C-0052	01	p0067	N84-10441
DNA001-82-C-0271	11	p1660	N84-20627
DNA001-82-C-0273	21	p3400	N84-31570
DNA001-82-C-0309	24	p3894	N84-34663
DNA001-83-C-0266	12	p1815	N84-21829
	14	p2145	N84-23853
	21	p3399	N84-31562
DO-A01-78-3108	22	p3540	N84-32412
	22	p3540	N84-32413
DOE-DGR481/176	15	p2372	N84-25232
DOE-FA79WAI-061	19	p3003	N84-29035
DOE-PECD/7/9/023	15	p2372	N84-25233
DOT-CG-80359-A	17	p2679	N84-27067
DOT-DG-835285-A	11	p1604	N84-20507
DOT-FA01-80-C-10080	16	p2446	N84-25688
DOT-FA72WAI-261	12	p1768	N84-21531
DOT-FA72WAI-267	11	p1642	N84-20736
DOT-FA72WAI-817	04	p0482	N84-13171
DOT-FA72WAI-877	14	p2104	N84-23618
DOT-FA74WA-3423	17	p2733	N84-27372
DOT-FA76WA-3788	17	p2652	N84-26956
DOT-FA77WAI-817	04	p0484	N84-13181
DOT-FA78WA-4096	06	p0790	N84-15157
	06	p0791	N84-15158
	11	p1614	N84-20563
DOT-FA78WAI-893	09	p1348	N84-18806
	12	p1917	N84-22488
	17	p2733	N84-27375
	21	p3446	N84-31865
DOT-FH-11-8894	01	p0059	N84-10385
	01	p0059	N84-10386
DOT-FH-11-9492	16	p2477	N84-25883
	16	p2478	N84-25884
	16	p2478	N84-25885
DOT-FH-11-9620	01	p0058	N84-10380
DOT-HS-9-02273	01	p0092	N84-10598
DRET-80/493	06	p0839	N84-15468
DRET-81-34.029.00.470.75.01	21	p3358	N84-31299
DRET-81-34.662.00.470.75.01	15	p2257	N84-24555
DRET-82/043	06	p0839	N84-15468
DRET-82/468	03	p0326	N84-12128
DRET-83-34.B3	20	p3147	N84-29980
DRG474/154	18	p2851	N84-28105
DTCG23-80-C-20026	17	p2724	N84-27337
DTCG23-80-C-20031	21	p3460	N84-31946
DTFA01-80-C-10030	17	p2605	N84-26689
	17	p2607	N84-26699
	19	p2961	N84-28766
DTFA01-80-Y-10546	23	p3800	N84-34091
DTFA01-81-C-10037	18	p2798	N84-27752
DTFA01-81-C-10043	24	p3857	N84-34450
DTFA01-81-C-10085	02	p0182	N84-11184
DTFA01-81-C-20101	11	p1604	N84-20503
DTFA01-81-Y-10521	19	p3058	N84-29404
DTFA01-81-Y-10523	09	p1259	N84-18222
DTFA01-81-Y-10557	19	p3005	N84-29043
DTFA01-82-C-10003	02	p0176	N84-11158
	19	p2961	N84-28768
DTFA01-82-C-10027	18	p2795	N84-27735
DTFA01-82-C-10050	12	p1768	N84-21530
DTFA01-82-Y-10513	17	p2715	N84-27287
DTFA01-82-Y-10539	07	p0993	N84-16441
DTFA01-82-Y-30562	19	p2961	N84-28765
DTFA01-83-C-20041	15	p2259	N84-24568
DTFA01-83-P-81230	15	p2404	N84-25429
DTFA01-83-Y-10554	13	p1929	N84-22550
DTFA01-84-C-0001	13	p1929	N84-22548
DTFA01-84-C-0010	20	p3125	N84-29848
DTFA03-80-A-00215	07	p0980	N84-16351
	07	p0980	N84-16353
	07	p0981	N84-16354
DTFA03-81-A-00149	01	p0006	N84-10037
DTFA03-81-C-00059	06	p0788	N84-15150
DTFA03-81-C-00076	20	p3161	N84-30073
DTFA03-81-00065	22	p3533	N84-32366
DTFA30-80-C-00092	05	p0628	N84-14130
DTFA30-83-A-0034	20	p3127	N84-29859
DTN22-81-C-06006	01	p0164	N84-11075
DTRS56-80-C-00018	01	p0164	N84-11076
DTRS56-80-C-00029	15	p2344	N84-25073
DTRS56-80-C-00032	03	p0386	N84-12518
DTRS56-81-C-00025	22	p3565	N84-32577
DTRS56-82-C-00014	10	p1516	N84-19928
DTRS57-80-C-00073	02	p0217	N84-11420
DTRS57-82-C-00039	14	p2100	N84-23602
DTRS57-83-C-0029	24	p3853	N84-34434
E(04-3)-1212	18	p2848	N84-28086
EC-77-C-01-2134	10	p1487	N84-19719
EC-77-C-01-4042	04	p0557	N84-13675
ED-77-C-02-4539	02	p0220	N84-11440
EE-77-C-04-4047	10	p1487	N84-19721
EEC-CLI-027-B(G)	16	p2527	N84-26226
EEC-6210-KB/401	17	p2622	N84-26781
EEC-6210-74/4/402	17	p2622	N84-26780
EF-77-C-01-4042	02	p0218	N84-11431
EG-77-C-01-4042	01	p0140	N84-10921
	02	p0242	N84-11584
	02	p0242	N84-11585
	03	p0401	N84-12622
	03	p0404	N84-12641
	03	p0404	N84-12644
	03	p0404	N84-12647
	03	p0475	N84-13127
	03	p0475	N84-13128
	04	p0537	N84-13530
	04	p0558	N84-13676
	04	p0568	N84-13744
	04	p0570	N84-13757
	04	p0570	N84-13758
	06	p0872	N84-15676
	06	p0872	N84-15678
	06	p0873	N84-15680
	06	p0874	N84-15689
	06	p0909	N84-15905
	07	p0971	N84-16293
	07	p1083	N84-17043
	08	p1180	N84-17688
	11	p1674	N84-20927
	12	p1816	N84-21839
	12	p1843	N84-22015
	12	p1918	N84-22494
	16	p2512	N84-26118
	16	p2512	N84-26119
	16	p2512	N84-26121
	16	p2512	N84-26123
	16	p2513	N84-26124
	16	p2513	N84-26128
	16	p2514	N84-26132
	16	p2514	N84-26138
	16	p2518	N84-26163
	16	p2528	N84-26227
	20	p3247	N84-30605
	23	p3815	N84-34189
EMW-C-0835	08	p0933	N84-16062
EMW-C-0979	02	p0209	N84-11367
EPA-IAG-AD-89-F-2A008	03	p0378	N84-12461
EPA-R-804442	20	p3230	N84-30525
EPA-R-804578	05	p0682	N84-14483
EPA-R-805318	04	p0573	N84-13774
EPA-R-805325	16	p2511	N84-26115
EPA-R-805332	18	p2929	N84-28572
EPA-R-805868	12	p1846	N84-22032
EPA-R-806216	22	p3549	N84-32469
	22	p3549	N84-32470
EPA-R-806377	01	p0058	N84-10378
EPA-R-806390	01	p0115	N84-10746
EPA-R-806479	01	p0106	N84-10691
EPA-R-806558	08	p1184	N84-17713
EPA-R-806819	12	p1804	N84-21764
EPA-R-806878	20	p3238	N84-30556
EPA-R-807031	12	p1885	N84-22289
EPA-R-807412	16	p2511	N84-26115
EPA-R-807512	16	p2520	N84-26178
EPA-R-807637	20	p3229	N84-30524
EPA-R-808039	01	p0115	N84-10746
EPA-R-810475	21	p3326	N84-31101
EPA-R-8053365	08	p1105	N84-17187
EPA-68-01-5913	16	p2519	N84-26174
EPA-68-01-5915	11	p1630	N84-20665
EPA-68-01-6651	21	p3520	N84-32301
EPA-68-02-2683	04	p0560	N84-13695
EPA-68-02-2991	20	p3151	N84-30012
EPA-68-02-3066	08	p1202	N84-17835
EPA-68-02-3122	12	p1794	N84-21703
EPA-68-02-3273	03	p0378	N84-12460
EPA-68-02-3423	02	p0222	N84-11455
EPA-68-02-3469	22	p3599	N84-32798
EPA-68-02-3487	21	p3363	N84-31333
EPA-68-02-3679	20	p3239	N84-30560
EPA-68-02-3697	15	p2338	N84-25035
EPA-68-02-3716	01	p0115	N84-10749
EPA-68-02-3731	14	p2182	N84-24075
EPA-68-02-3745	16	p2463	N84-25788
EPA-68-02-3755	12	p1866	N84-22161
EPA-68-02-4033	09	p1319	N84-18618
EPA-68-03-1647	03	p0385	N84-12507
EPA-68-03-2220	11	p1639	N84-20715
EPA-68-03-2560	17	p2723	N84-27334
EPA-68-03-2969	15	p2302	N84-24818
EPA-68-03-3019	20	p3265	N84-30719
EPA-68-03-3050	02	p0257	N84-11680
EPA-68-03-3089	12	p1795	N84-21704
	12	p1799	N84-21736
EPA-68-03-3679	01	p0115	N84-10744
EPA-69-03-2884	09	p1291	N84-18426
EPRI PROJ. S117-1	01	p0044	N84-10285
EPRI PROJ. S193-2	01	p0045	N84-10287
EPRI PROJ. S193-3	01	p0045	N84-10286
EPRI PROJ. TPS-81-817	04	p0565	N84-13723
EPRI PROJ. 255-2	20	p3237	N84-30548
EPRI PROJ. 623-5	02	p0191	N84-11241
EPRI PROJ. 1136-18	21	p3394	N84-31541
EPRI PROJ. 1291-2	02	p0215	N84-11407
EPRI PROJ. 1367-1	03	p0401	N84-12620
EPRI PROJ. 1964-1	01	p0073	N84-10476
EPRI PROJ. 2006-3	01	p0097	N84-10630
EPRI PROJ. 2198-1	20	p3238	N84-30557
EPRI T117-1	11	p1635	N84-20688
ERNO-CC-DS-000-100	10	p1443	N84-19427
	10	p1443	N84-19428
ESA-81-IG-28-R3-61	03	p0340	N84-12207
ESA-82/17	09	p1362	N84-18900
ESA-82/18	09	p1362	N84-18900
ESA-3807/78/NL-HP(SC)	03	p0339	N84-12202
ESA-3879/79/NL-MS	03	p0339	N84-12204
ESA-4122/79/NL-PP	16	p2484	N84-25928
ESA-4389/80/NL-AK(SC)	12	p1790	N84-21675
ESA-4442/80/NL-AK(SC)	09	p1289	N84-18416
ESA-4479/80/F-DD(SC)	02	p0210	N84-11376
ESA-4524/81/D-JS(SC)	16	p2509	N84-26103
ESA-4596/81/NL-AK(SC)	10	p1442	N84-19418
ESA-4660/81/D-IM(SC)	07	p1023	N84-16637
ESA-4730/81/D-JS(SC)	08	p1113	N84-17243
ESA-4759/81/NL-PP(SC)	16	p2458	N84-25747
ESA-4774/81/D-JS(SC)	23	p3697	N84-33430

	23	p3697	N84-33431
ESA-4790/81/NL-PP	18	p2921	N84-28527
ESA-4820/81/NL-PP(SC)	08	p1153	N84-17507
	08	p1153	N84-17508
ESA-4860/81/NL-AK	12	p1803	N84-21757
ESA-4870/81/NL-AK(SC)	12	p1776	N84-21588
	12	p1776	N84-21589
ESA-4914/18/NL-PP(SC)	13	p2018	N84-23081
ESA-4914/81/NL-PP(SC)	13	p2017	N84-23080
ESA-4952/81/F-FC(SC)	08	p1141	N84-17423
	08	p1141	N84-17424
ESA-4963/81/NL-MS	08	p1153	N84-17505
	08	p1153	N84-17506
ESA-5003/82/F-FC(SC)	09	p1263	N84-18246
ESA-5084/82/NL-HP(SC)	16	p2496	N84-26018
ESA-5090/82/NL-PB(SC)	12	p1782	N84-21629
ESA-5130/83/HGE-I(SC)	12	p1809	N84-21791
	12	p1809	N84-21792
ESA-5131/82/F-CG(SC)	08	p1162	N84-17569
ESA-5154/82/NL-PP	08	p1120	N84-17282
	08	p1120	N84-17283
ESA-5172/82/NL-PP(SC)	12	p1794	N84-21700
ESA-5179/82/NL-PP(SC)	03	p0339	N84-12204
ESA-5182/82/F-CG(SC)	08	p1179	N84-17683
ESA-5235/82/F-CG(SC)	12	p1837	N84-21974
ESA-5242/82/F-CG(SC)	23	p3784	N84-34002
ESA-5309/83/F-CG(SC)	17	p2614	N84-26735
	17	p2614	N84-26736
ESA-5325/83/NL-PB(SC)	10	p1442	N84-19418
ESA-5346/83/WL-PB(SC)	18	p2807	N84-27822
ESA-5389/83	23	p3697	N84-33428
ESA-5390/83/NL-BI(SC)	23	p3697	N84-33427
ESA-5753/82	23	p3752	N84-33789
ESOC-5219/82/D-JS(SC)	23	p3697	N84-33429
ESOC-5227/82/D-IM(SC)	12	p1776	N84-21591
ESOC-5335/83/D-JS(SC)	23	p3839	N84-34354
ESTEC-2565/75/HP(SC)	12	p1825	N84-21894
	12	p1825	N84-21895
ESTEC-2991/76/NL-AK(SC)	08	p1113	N84-17241
ESTEC-3273/77/NL-AK	23	p3702	N84-33464
	24	p3867	N84-34505
ESTEC-3640/78/NL-AK	08	p1113	N84-17242
ESTEC-4006/79	16	p2482	N84-25913
ESTEC-4099/79/NL-PP	06	p0853	N84-15563
	23	p3758	N84-33820
ESTEC-4099/79/NL-PP(SC)	06	p0853	N84-15562
ESTEC-4156/79/NL-PP(SC)	16	p2552	N84-26376
	16	p2553	N84-26377
	16	p2553	N84-26379
ESTEC-4315/80/NL-AK(SC)	12	p1778	N84-21605
ESTEC-4316/80/NL-AK(SC)	12	p1782	N84-21630
ESTEC-4327/80/NL-AK(SC)	12	p1782	N84-21628
ESTEC-4345/80/NL-PP(SC)	23	p3732	N84-33656
ESTEC-4346/80/NL-AK(SC)	12	p1780	N84-21611
	12	p1780	N84-21616
	12	p1781	N84-21620
	12	p1782	N84-21624
ESTEC-4348/80/NL-AL(SC)	12	p1782	N84-21625
ESTEC-4350/80/NL-PP	12	p1782	N84-21626
ESTEC-4418/80/NL-DG(SC)	16	p2456	N84-25748
ESTEC-4435/80/NL-AK(SC)	06	p0795	N84-15182
ESTEC-4485/80/NL-MS(SC)	08	p1147	N84-17465
	08	p1147	N84-17466
ESTEC-4496/80/NL-AK(SC)	23	p3701	N84-33459
ESTEC-4537/80/NL-MS(SC)	12	p1809	N84-21798
ESTEC-4626/81/NL-MS(SC)	08	p1147	N84-17463
	08	p1147	N84-17464
ESTEC-4679/81/NL-PP	12	p1884	N84-22283
ESTEC-4680/81/ML-MS(SC)	18	p2888	N84-28334
ESTEC-4681/81/NL-HP(SC)	09	p1324	N84-18648
	17	p2673	N84-27035
ESTEC-4682/81/NL-MS	12	p1809	N84-21794
ESTEC-4708/81/NL-AK	09	p1334	N84-18712
ESTEC-4710/81/NL-PP	19	p2982	N84-28898
ESTEC-4712/81/NL-HP(SC)	09	p1273	N84-18314
ESTEC-4793/81/NL-AK(SC)	06	p0796	N84-15186
ESTEC-4844/81/NL-PP(SC)	07	p0999	N84-16482
ESTEC-4868/81/NL-HP(SC)	16	p2529	N84-26237
	16	p2529	N84-26239
	16	p2529	N84-26240
ESTEC-4868/81/NL/HP(SC)	16	p2529	N84-26238
ESTEC-4884/81/NL-AK(SC)	08	p1120	N84-17285
ESTEC-4888/81/NL-AK	17	p2617	N84-26747
ESTEC-4919/81/NL-PP(SC)	12	p1884	N84-22284
ESTEC-4931/81/NL-GM(SC)	12	p1809	N84-21795
ESTEC-5047/82/NL-HP	15	p2390	N84-25339
	20	p3275	N84-30791
ESTEC-5099/82/NL-PB(SC)	12	p1782	N84-21627
ESTEC-5146/82/NL-GH(SC)	12	p1809	N84-21793
ESTEC-5152/82/NL-PB	16	p2475	N84-25866
ESTEC-5156/82/NL-PB(SC)	08	p1120	N84-17284
ESTEC-5157/82/NL-GM(SC)	12	p1809	N84-21796
	12	p1809	N84-21797
ESTEC-5159/82/NL-HP(SC)	24	p3906	N84-34740
	24	p3906	N84-34741
ESTEC-5169/82/NL-GM(SC)	23	p3732	N84-33655
ESTEC-5176/82/NL-PP	08	p1191	N84-17765
ESTEC-5191/82/NL-GM(SC)	17	p2616	N84-26744
ESTEC-5297/82/NL-BI	16	p2474	N84-25856
ESTEC-5512/83/NL-MS	17	p2615	N84-26737
ESTEC-5584/83/NL-BS(SC)	23	p3700	N84-33449
ESTEC-5585/83/NL-BS(SC)	23	p3699	N84-33448
ET-78-C-02-4633	18	p2876	N84-28260
ET-78-C-02-4687	14	p2197	N84-24180
EY-36-C-02-0016	11	p1714	N84-21179
EY-76-C-06-1830	09	p1337	N84-18732
EY-76-S-02-1599	04	p0571	N84-13761
EY-76-S-02-2313	07	p0975	N84-16317
	22	p3556	N84-32517
EY-76-S-03-0034	04	p0601	N84-13971
EY-76-S-06-2229	02	p0250	N84-11636
E00014-82-F-0094	04	p0613	N84-14047
FA-79-WAI-020	07	p1036	N84-16718
FAA PROJ. 081-502-520	02	p0182	N84-11182
FAA PROJ. 156-410-01W	19	p3058	N84-29404
FAA PROJ. 181-350-400	01	p0006	N84-10035
FAA PROJ. 181-350-420	07	p0949	N84-16158
FAA PROJ. 182-340-200	07	p1036	N84-16718
FC02-80CS-30525	09	p1276	N84-18335
FFA PROJ. HU-2302	03	p0348	N84-12260
FG01-81CS-15072	06	p0874	N84-15687
FG01-81ER-10984	04	p0603	N84-13981
FMV-F-FL-82223-80-001-21-001	03	p0348	N84-12260
FMV-F-FL-82223-80-183-21-001	03	p0366	N84-12516
FMV-F-INK-82223-80-183-21-001	06	p0783	N84-15132
FMV-F-K-82223-78-003-21-001 ..	09	p1253	N84-18180
FMV-F-K-82223-78-170-21-001 ..	09	p1253	N84-18180
FMV-F-K-82223-80-183-21-001 ..	09	p1253	N84-18180
F12-131	12	p1806	N84-21776
F12-152	22	p3599	N84-32792
F21-222	11	p1731	N84-21294
	12	p1908	N84-22430
F21-243	23	p3815	N84-34194
F21-245	14	p2140	N84-23628
F33-321	23	p3742	N84-33717
F34-372	16	p2474	N84-25857
F34-573	16	p2474	N84-25858
F41-400	09	p1331	N84-18691
	09	p1331	N84-18692
F41-422	13	p1954	N84-22703
F41-451	15	p2258	N84-24565
F43-431	08	p1226	N84-18009
F43-433	12	p1801	N84-21743
F52-55-T	23	p3802	N84-34109
F54-502	14	p2119	N84-23702
F57-526	10	p1554	N84-20187
F58-524	12	p1865	N84-22155
	13	p2025	N84-23126
F58-528	08	p1200	N84-17825
	09	p1302	N84-18514
F59-551	07	p1040	N84-16742
	11	p1642	N84-20738
	19	p3054	N84-29378
	24	p3934	N84-34904
F59-553	08	p1113	N84-17240
F60-433	10	p1593	N84-20444
F60-534	22	p3560	N84-32543
F60-536	15	p2350	N84-25110
F61-541	09	p1282	N84-18371
F61-542	08	p1131	N84-17356
	12	p1764	N84-21504
	23	p3711	N84-33527
F61-545	17	p2723	N84-27330
F62-582	08	p1150	N84-17483
F62-584	18	p2834	N84-27992
F63-521	14	p2214	N84-24297
	14	p2218	N84-24310
F63-522	15	p2382	N84-25266
F65-559	11	p1639	N84-20713
F65-571	22	p3561	N84-32553
	24	p3890	N84-34630
F66-412	13	p2001	N84-22983
F68-342	11	p1729	N84-21280
	11	p1729	N84-21281
	14	p2151	N84-23884
F68-343	13	p2041	N84-23241
F04611-75-C-0042	20	p3143	N84-29957
F04611-79-C-0012	02	p0186	N84-11208
	02	p0186	N84-11209
F04611-79-C-0019	20	p3143	N84-29957
F04611-79-C-0030	05	p0661	N84-14345
F04611-80-C-0011	13	p1942	N84-22628
F04611-80-C-0048	05	p0676	N84-14442
F04611-80-C-0052	06	p0812	N84-15287
	15	p2304	N84-24823
	20	p3142	N84-29951
F04611-81-C-0028	14	p2156	N84-23918
F04611-81-C-0041	24	p3866	N84-34504
F04611-82-C-0029	20	p3139	N84-29929
F04611-82-C-0041	13	p1942	N84-22630
F04611-82-C-0049	20	p3139	N84-29928
F04611-82-C-0058	20	p3139	N84-29930
F04611-82-K-0063	13	p1945	N84-22649
F04611-82-X-0008	13	p1947	N84-22659
	18	p2806	N84-27826
F04611-82-X-0010	18	p2806	N84-27826
F04611-83-C-0013	03	p0346	N84-12249
F04611-83-C-0029	13	p1941	N84-22622
F04611-83-C-0052	23	p3825	N84-34255
F04611-83-C-0055	23	p3718	N84-33568
F04611-83-C-0056	23	p3724	N84-33597
F04611-83-K-0047	13	p1945	N84-22648
F04611-83-X-0010	13	p1947	N84-22659
F04700-83-M-0052	09	p1349	N84-18814
F04700-83-M-0053	09	p1302	N84-18510
F04700-83-M-0054	09	p1349	N84-18813
F04701-72-C-0221	20	p3137	N84-29917
F04701-74-C-0020	15	p2269	N84-24626
F04701-77-C-0062	08	p1117	N84-17262
F04701-78-C-0018	15	p2269	N84-24626
F04701-81-C-0082	16	p2580	N84-26550
F04701-82-C-0083	01	p0121	N84-10788
	02	p0175	N84-11148
	02	p0190	N84-11234
	02	p0210	N84-11370
	02	p0213	N84-11395
	02	p0226	N84-11479
	04	p0521	N84-13428
	05	p0685	N84-14501
	06	p0818	N84-15331
	07	p0968	N84-16270
	07	p0970	N84-16283
	07	p0992	N84-16433
	07	p0993	N84-16436
	07	p1009	N84-16546
	07	p1010	N84-16548
	08	p1132	N84-17359
	08	p1139	N84-17411
	08	p1164	N84-17580
	10	p1470	N84-19603
	15	p2282	N84-24705
	16	p2523	N84-26199
	16	p2525	N84-26212
	16	p2580	N84-26550
F04701-83-C-002	24	p3865	N84-34496
F04701-83-C-0084	09	p1299	N84-18495
	09	p1308	N84-18549
	09	p1345	N84-18785
	09	p1388	N84-19066
	10	p1595	N84-20451
	12	p1790	N84-21671
	12	p1819	N84-21859
	12	p1824	N84-21890
	12	p1847	N84-22042
	12	p1914	N84-22467
	12	p1914	N84-22472
	13	p1926	N84-22538
	13	p1987	N84-22897
	13	p1995	N84-22950
	13	p2001	N84-22982
	13	p2092	N84-23548
	13	p2092	N84-23550
	14	p2175	N84-24032
	14	p2252	N84-24522
	17	p2663	N84-26988
	17	p2673	N84-27034
	18	p2924	N84-28542
	19	p3075	N84-29512
	19	p3076	N84-29517
	19	p3089	N84-29608
	21	p3392	N84-31523
	22	p3586	N84-32710
	22	p3623	N84-32954
	23	p3724	N84-33598
F04704-83-C-0001	20	p3142	N84-29949
F08606-79-C-0001	06	p0878	N84-15713
F08606-80-C-0014	22	p3624	N84-32961
F08606-80-C-0016	06	p0878	N84-15714
F08606-80-C-0021	03	p0407	N84-12666
F08635-71-K-0036	07	p0965	N84-16383
F08635-76-C-0306	16	p2447	N84-25697
F08635-80-C-0206	01	p0016	N84-10105
	03	p0338	N84-12195
F08635-81-C-0235	19	p2959	N84-28754
F08635-81-C-0258	16	p2477	N84-25879
F08635-81-K-0003	11	p1620	N84-20603
F08635-81-K-0281	23	p3747	N84-33753
F08635-82-C-0131	01	p0012	N84-10074
F08635-82-C-0187	17	p2611	N84-26713
F08635-82-C-0214	01	p0016	N84-10104
F08635-82-C-0315	01	p0016	N84-10103
F08635-82-C-0374	19	p3052	N84-29368
F08635-82-K-0062	20	p3163	N84-30227
F08635-82-K-0102	08	p0786	N84-15146
F08635-83-C-0052	15	p2292	N84-24753
F08635-83-C-0136	19	p2969	N84-28818
F09603-77-A-0708	10	p1467	N84-19580
F12131	14	p2141	N84-23836

F12141	20	p3266	N84-30724
F19628-8-C-0002	23	p3800	N84-34091
F19628-73-C-0201	05	p0708	N84-14641
F19628-78-C-0087	01	p0166	N84-11088
F19628-78-C-0163	19	p3114	N84-29786
	19	p3114	N84-29787
F19628-78-C-0188	15	p2391	N84-25350
	15	p2397	N84-25382
F19628-78-C-0200	01	p0106	N84-10687
F19628-79-C-0105	06	p0923	N84-15999
F19628-79-C-0108	20	p3302	N84-30968
F19628-79-C-0120	01	p0147	N84-10964
F19628-79-C-0125	19	p3054	N84-29380
F19628-79-C-0152	03	p0444	N84-12917
F19628-80-C-0002	01	p0049	N84-10319
	01	p0063	N84-10416
	01	p0072	N84-10472
	01	p0103	N84-10670
	01	p0119	N84-10771
	01	p0131	N84-10856
	01	p0140	N84-10919
	02	p0273	N84-11786
	02	p0281	N84-11841
	03	p0360	N84-12343
	04	p0484	N84-13181
	04	p0521	N84-13421
	04	p0521	N84-13422
	05	p0642	N84-14224
	05	p0668	N84-14391
	05	p0668	N84-14393
	06	p0823	N84-15366
	06	p0909	N84-15903
	07	p0994	N84-16443
	08	p1144	N84-17447
	08	p1145	N84-17454
	09	p1254	N84-18187
	09	p1302	N84-18511
	09	p1303	N84-18520
	09	p1346	N84-18792
	10	p1436	N84-19387
	10	p1478	N84-19661
	10	p1479	N84-19664
	10	p1481	N84-19678
	10	p1569	N84-20279
	11	p1642	N84-20736
	11	p1643	N84-20745
	11	p1644	N84-20746
	11	p1660	N84-20833
	13	p1982	N84-22871
	13	p2047	N84-23282
	14	p2104	N84-23618
	14	p2141	N84-23837
	14	p2151	N84-23885
	14	p2176	N84-24035
	15	p2321	N84-24937
	15	p2329	N84-24987
	15	p2398	N84-25389
	15	p2413	N84-25488
	17	p2653	N84-26968
	18	p2829	N84-27963
	18	p2917	N84-28497
	21	p3348	N84-31241
	21	p3492	N84-32127
	24	p3894	N84-34662
	24	p3898	N84-34681
	24	p3963	N84-35096
	24	p3967	N84-35118
F19628-80-C-0005	01	p0138	N84-10904
F19628-80-C-0009	05	p0703	N84-14616
F19628-80-C-0021	06	p0866	N84-15639
F19628-80-C-0031	06	p0847	N84-15527
F19628-80-C-0042	09	p1304	N84-18525
F19628-80-C-0050	07	p0963	N84-16244
F19628-80-C-0056	05	p0669	N84-14400
F19628-80-C-0064	06	p0869	N84-15659
	08	p1187	N84-17732
	15	p2368	N84-25210
	16	p2526	N84-26219
F19628-80-C-0067	12	p1914	N84-22471
F19628-80-C-0076	06	p0938	N84-16098
F19628-80-C-0086	15	p2413	N84-25485
F19628-80-C-0090	07	p1093	N84-17110
F19628-80-C-0106	23	p3731	N84-33647
F19628-80-C-0110	13	p1983	N84-22875
F19628-80-C-0124	11	p1682	N84-20974
F19628-80-C-0125	03	p0340	N84-12211
F19628-80-C-0127	13	p1940	N84-22616
F19628-80-C-0130	06	p0922	N84-15995
F19628-80-C-0133	22	p3623	N84-32957
F19628-80-C-0146	20	p3175	N84-30159
F19628-80-C-0150	05	p0753	N84-14941
F19628-80-C-0151	13	p1982	N84-22870
F19628-80-C-0153	16	p2526	N84-26218
F19628-80-C-0175	24	p3919	N84-34611
F19628-80-C-0184	08	p1164	N84-17577
	08	p1164	N84-17578
F19628-80-C-0185	20	p3299	N84-30951
F19628-80-C-0201	08	p1121	N84-17289
F19628-80-C-0205	06	p0848	N84-15528
F19628-80-C-0208	16	p2580	N84-26550
F19628-80-C-0211	10	p1536	N84-20067
F19628-80-C-0216	11	p1682	N84-20975
F19628-81-C-0001	06	p0823	N84-15368
F19628-81-C-0004	08	p1144	N84-17442
	22	p3577	N84-32653
F19628-81-C-0044	14	p2176	N84-24036
F19628-81-C-0067	21	p3366	N84-31487
F19628-81-C-0072	20	p3148	N84-29988
F19628-81-C-0073	03	p0441	N84-12893
F19628-81-C-0078	19	p3015	N84-29111
F19628-81-C-0079	01	p0070	N84-10459
	04	p0526	N84-13460
F19628-81-C-0081	15	p2408	N84-25453
F19628-81-C-0117	19	p3009	N84-29071
F19628-81-C-0128	20	p3178	N84-30186
F19628-81-C-0140	24	p3861	N84-34466
F19628-81-C-0141	06	p0882	N84-15735
F19628-81-C-0146	16	p2531	N84-26251
F19628-81-C-0157	11	p1682	N84-20977
F19628-81-C-0162	03	p0377	N84-12452
F19628-81-K-0002	18	p2880	N84-28286
F19628-81-K-0003	16	p2526	N84-26217
F19628-81-K-0005	20	p3241	N84-30575
F19628-81-K-0011	16	p2521	N84-26185
	18	p2880	N84-28284
F19628-81-K-0013	05	p0703	N84-14614
F19628-81-K-0016	15	p2329	N84-24985
F19628-81-K-0020	01	p0104	N84-10676
	01	p0166	N84-11092
F19628-81-K-0022	22	p3653	N84-33156
F19628-81-K-0023	05	p0702	N84-14610
F19628-81-K-0024	03	p0472	N84-13104
	24	p3993	N84-35266
F19628-81-K-0025	12	p1807	N84-21782
	15	p2321	N84-24934
F19628-81-K-0026	09	p1416	N84-19267
F19628-81-K-0031	09	p1387	N84-19056
F19628-81-K-0032	16	p2525	N84-26214
F19628-81-K-0033	08	p1187	N84-17733
F19628-81-K-0038	04	p0520	N84-13417
F19628-81-K-0039	08	p1187	N84-17738
F19628-81-K-0044	14	p2140	N84-23833
F19628-81-K-0045	19	p3054	N84-29379
F19628-81-K-0046	24	p3915	N84-34791
F19628-81-K-0049	13	p1982	N84-22869
F19628-81-K-0051	03	p0470	N84-13093
	08	p1186	N84-17731
F19628-81-K-0057	19	p3004	N84-29039
F19628-82-C-0001	05	p0670	N84-14406
	08	p1145	N84-17448
	08	p1210	N84-17891
	09	p1368	N84-18929
	09	p1398	N84-19128
	10	p1482	N84-19683
	10	p1564	N84-20247
	12	p1805	N84-21769
	13	p1982	N84-22868
	16	p2565	N84-26457
	18	p2943	N84-28664
	20	p3174	N84-30154
	23	p3834	N84-34324
	24	p3902	N84-34711
F19628-82-C-0017	19	p3008	N84-29066
F19628-82-C-0023	02	p0256	N84-11675
	03	p0411	N84-12691
	20	p3245	N84-30599
F19628-82-C-0028	11	p1759	N84-21482
F19628-82-C-0034	10	p1539	N84-20084
F19628-82-C-0048	19	p3094	N84-29647
F19628-82-C-0060	20	p3300	N84-30954
F19628-82-C-0067	06	p0923	N84-15998
F19628-82-C-0081	16	p2524	N84-26204
	16	p2524	N84-26208
F19628-82-C-0087	22	p3623	N84-32956
F19628-82-C-0111	11	p1622	N84-20620
F19628-82-C-0144	13	p2011	N84-23048
F19628-82-K-0001	13	p2036	N84-23206
	13	p2036	N84-23208
F19628-82-K-0002	14	p2112	N84-23660
F19628-82-K-0003	21	p3447	N84-31871
F19628-82-K-0007	19	p3054	N84-29381
	19	p3089	N84-29611
F19628-82-K-0011	16	p2525	N84-26214
F19628-82-K-0015	03	p0469	N84-13090
F19628-82-K-0017	05	p0741	N84-14867
	19	p3054	N84-29382
F19628-82-K-0018	07	p1093	N84-17106
F19628-82-K-0019	18	p2832	N84-28595
F19628-82-K-0022	03	p0408	N84-12669
	11	p1682	N84-20978
F19628-82-K-0023	04	p0567	N84-13740
F19628-82-K-0024	03	p0408	N84-12670
F19628-82-K-0029	15	p2354	N84-25127
F19628-82-K-0033	03	p0377	N84-12453
F19628-82-K-0034	15	p2283	N84-24706
F19628-82-K-0037	19	p3101	N84-29702
F19628-82-K-0039	03	p0340	N84-12210
F19628-82-K-0041	15	p2283	N84-24707
F19628-82-K-0045	11	p1644	N84-20748
F19628-83-C-0027	18	p2890	N84-28344
F19628-83-C-0037	22	p3541	N84-32419
F19628-83-C-0046	08	p1151	N84-17492
F19628-83-C-0053	03	p0425	N84-12785
F19628-83-C-0056	24	p3860	N84-34463
	24	p3919	N84-34810
	24	p3963	N84-35097
F19628-83-C-0147	16	p2458	N84-25761
F19628-83-K-0001	05	p0703	N84-14615
F19628-83-K-0011	24	p3894	N84-34660
F19628-83-K-0024	05	p0636	N84-14184
F19628-84-C-0001	15	p2392	N84-25354
	17	p2753	N84-27477
	18	p2932	N84-28593
	24	p3951	N84-35020
F21242	05	p0729	N84-14785
F29601-81-C-0013	10	p1471	N84-19608
F29601-81-K-0010	04	p0520	N84-13418
F29601-81-K-0037	02	p0213	N84-11391
F29601-82-C-0027	15	p2329	N84-24983
	19	p2964	N84-28787
	24	p3954	N84-35037
F29601-82-C-0036	03	p0444	N84-12920
F29601-82-K-0009	03	p0441	N84-12894
F29601-82-K-0017	04	p0540	N84-13550
F29601-83-C-0023	20	p3300	N84-30955
F30602-76-C-0054	03	p0411	N84-12692
F30602-78-C-0083	09	p1301	N84-18505
	12	p1836	N84-21970
F30602-78-C-0120	15	p2418	N84-25520
F30602-78-C-0148	01	p0129	N84-10844
F30602-78-C-0222	09	p1301	N84-18507
F30602-78-C-0230	01	p0070	N84-10460
F30602-79-C-0042	19	p3074	N84-29505
F30602-79-C-0068	01	p0121	N84-10790
F30602-79-C-0115	15	p2408	N84-25454
F30602-79-C-0181	02	p0214	N84-11405
F30602-79-C-0195	03	p0459	N84-13022
F30602-79-C-0231	14	p2247	N84-24498
F30602-80-C-0022	16	p2544	N84-26334
	16	p2545	N84-26336
F30602-80-C-0046	01	p0072	N84-10469
F30602-80-C-0062	19	p3004	N84-29041
F30602-80-C-0101	19	p3074	N84-29504
F30602-80-C-0105	09	p1303	N84-18519
F30602-80-C-0139	23	p3815	N84-34192
F30602-80-C-0197	01	p0063	N84-10411
F30602-80-C-0232	07	p1007	N84-16532
F30602-80-C-0265	12	p1883	N84-22276
	12	p1884	N84-22277
F30602-80-C-0267	08	p1212	N84-17909
F30602-80-C-0272	19	p3077	N84-29525
	19	p3078	N84-29526
F30602-80-C-0273	12	p1881	N84-22262
	12	p1881	N84-22263
F30602-80-C-0285	06	p0824	N84-15372
F30602-80-C-0286	14	p2247	N84-24497
F30602-80-C-0291	05	p0726	N84-14766
	05	p0726	N84-14767
	05	p0726	N84-14769
	05	p0727	N84-14771
	05	p0727	N84-14772
	05	p0727	N84-14773
	05	p0727	N84-14774
F30602-80-C-0319	04	p0604	N84-13987
F30602-80-C-0330	11	p1707	N84-21128
	11	p1707	N84-21129
	11	p1708	N84-21130
F30602-81-C-0001	09	p1302	N84-18509
F30602-81-C-0004	01	p0064	N84-10419
F30602-81-C-0028	14	p2203	N84-24223
	14	p2203	N84-24224
	14	p2203	N84-24225
F30602-81-C-0035	06	p0896	N84-15816
F30602-81-C-0062	05	p0675	N84-14435
	19	p3004	N84-29040
F30602-81-C-0084	10	p1480	N84-19669
	10	p1480	N84-19670
	10	p1480	N84-19671
	10	p1480	N84-19673
	10	p1480	N84-19674
	11	p1644	N84-20750
F30602-81-C-0119	05	p0668	N84-14394
	05	p0668	N84-14395
F30602-81-C-0132	14	p2209	N84-24260
	15	p2388	N84-25328
	21	p3462	N84-31950
F30602-81-C-0142	11	p1704	N84-21105
	11	p1704	N84-21106

	11	p1704	N84-21107
F30602-81-C-0155	01	p0066	N84-10433
F30602-81-C-0169	14	p2169	N84-23995
	14	p2205	N84-24233
	19	p3005	N84-29047
	19	p3005	N84-29048
	19	p3005	N84-29050
	19	p3006	N84-29051
	19	p3006	N84-29052
	19	p3006	N84-29053
F30602-81-C-0180	09	p1273	N84-18311
	09	p1273	N84-18312
	15	p2282	N84-24703
	15	p2282	N84-24704
	19	p3095	N84-29655
F30602-81-C-0190	05	p0689	N84-14528
	05	p0689	N84-14529
F30602-81-C-0194	06	p0795	N84-15181
F30602-81-C-0208	01	p0120	N84-10781
F30602-81-C-0213	04	p0580	N84-13827
F30602-81-C-0218	19	p3095	N84-29656
F30602-81-C-0219	02	p0209	N84-11364
F30602-81-C-0222	13	p2047	N84-23281
F30602-81-C-0224	18	p2834	N84-27989
F30602-81-C-0226	09	p1302	N84-18508
F30602-81-C-0227	13	p2046	N84-23279
F30602-81-C-0236	09	p1328	N84-18669
F30602-81-C-0239	09	p1301	N84-18504
F30602-81-C-0249	19	p3076	N84-29518
	19	p3076	N84-29519
F30602-81-C-0260	23	p3701	N84-33458
F30602-81-C-0264	19	p3100	N84-29689
F30602-81-C-0268	01	p0043	N84-10279
F30602-81-C-0279	01	p0100	N84-10649
F30602-81-C-0280	09	p1369	N84-18936
F30602-81-C-0299	10	p1486	N84-19713
F30602-81-C-0300	01	p0062	N84-10410
F30602-81-K-0056	01	p0122	N84-10793
	19	p3074	N84-29506
F30602-81-K-0211	05	p0668	N84-14396
F30602-82-C-0009	06	p0824	N84-15373
	09	p1309	N84-18560
F30602-82-C-0064	17	p2654	N84-26974
F30602-82-C-0135	09	p1308	N84-18553
F33601-80-C-0339	09	p1310	N84-18563
F33615-67-C-1887	09	p1304	N84-18524
F33615-69-C-1683	09	p1304	N84-18524
F33615-70-C-1557	09	p1304	N84-18524
F33615-72-C-1483	09	p1304	N84-18524
F33615-76-C-0029	09	p1304	N84-18524
F33615-76-C-2148	03	p0335	N84-12178
F33615-76-C-3103	01	p0120	N84-10782
	01	p0120	N84-10783
	03	p0331	N84-12159
	13	p2002	N84-22988
	17	p2597	N84-26645
F33615-76-C-5136	14	p2127	N84-23755
F33615-77-C-0074	03	p0457	N84-13011
F33615-77-C-2023	19	p2964	N84-28785
F33615-77-C-2029	01	p0006	N84-10039
F33615-77-C-2083	07	p0958	N84-16210
F33615-77-C-3123	20	p3128	N84-29865
	20	p3128	N84-29866
F33615-77-C-5155	03	p0331	N84-12160
F33615-78-C-1551	19	p3072	N84-29493
F33615-78-C-2003	02	p0180	N84-11175
F33615-78-C-2005	08	p1158	N84-17542
	08	p1159	N84-17543
	08	p1159	N84-17544
F33615-78-C-2023	05	p0649	N84-14268
F33615-78-C-2064	09	p1303	N84-18518
F33615-78-C-2075	02	p0242	N84-11582
F33615-78-C-2080	01	p0052	N84-10334
F33615-78-C-3603	02	p0175	N84-11153
	02	p0176	N84-11154
	02	p0176	N84-11155
F33615-78-C-3614	02	p0177	N84-11162
F33615-78-C-5005	20	p3131	N84-29881
F33615-78-C-5077	17	p2592	N84-26612
F33615-78-D-0617	16	p2818	N84-27892
F33615-78-D-0629	09	p1364	N84-18906
F33615-79-C-0014	01	p0117	N84-10758
	03	p0459	N84-13019
F33615-79-C-0027	16	p2567	N84-26471
F33615-79-C-0503	07	p1051	N84-16810
	10	p1430	N84-19350
F33615-79-C-1729	09	p1308	N84-18550
F33615-79-C-1887	08	p1104	N84-17180
F33615-79-C-2027	08	p1101	N84-17157
F33615-79-C-2052	09	p1288	N84-18410
F33615-79-C-2093	10	p1424	N84-19314
F33615-79-C-3030	01	p0016	N84-10102
	01	p0032	N84-10199
	01	p0078	N84-10507
	03	p0320	N84-12095
F33615-79-C-3402	06	p0820	N84-15344
F33615-79-C-3615	01	p0013	N84-10080
F33615-79-C-3618	17	p2611	N84-26711
	17	p2611	N84-26712
F33615-79-C-5061	24	p3889	N84-34626
F33615-79-C-5084	08	p1136	N84-17390
F33615-79-C-5100	21	p3343	N84-31210
F33615-79-C-5101	06	p0810	N84-15274
F33615-79-C-5122	05	p0625	N84-14112
F33615-80-C-0004	19	p3088	N84-29459
F33615-80-C-0018	04	p0573	N84-13773
F33615-80-C-0020	16	p2538	N84-26297
F33615-80-C-0512	07	p1027	N84-16657
	09	p1362	N84-18896
F33615-80-C-0514	18	p2900	N84-28395
F33615-80-C-0603	19	p2984	N84-28911
F33615-80-C-0610	10	p1547	N84-20141
F33615-80-C-0612	06	p0885	N84-15756
	09	p1361	N84-18890
	09	p1361	N84-18891
	12	p1863	N84-22141
	14	p2184	N84-24087
	19	p3063	N84-29434
F33615-80-C-0613	07	p1042	N84-16759
F33615-80-C-1002	07	p1054	N84-16825
F33615-80-C-1088	16	p2546	N84-26343
F33615-80-C-2002	13	p1965	N84-22769
F33615-80-C-2004	10	p1428	N84-19337
F33615-80-C-2017	18	p2819	N84-27896
F33615-80-C-2021	18	p2821	N84-27911
F33615-80-C-2022	03	p0356	N84-12316
F33615-80-C-2032	01	p0138	N84-10908
F33615-80-C-2034	19	p2999	N84-29007
F33615-80-C-2040	09	p1322	N84-18636
F33615-80-C-2041	05	p0699	N84-14588
	06	p0873	N84-15684
	06	p0874	N84-15685
	06	p0874	N84-15686
F33615-80-C-2075	06	p0830	N84-15398
F33615-80-C-3002	09	p1315	N84-18591
F33615-80-C-3213	01	p0005	N84-10032
F33615-80-C-3234	10	p1428	N84-19340
	10	p1428	N84-19341
F33615-80-C-3401	03	p0331	N84-12159
	13	p1930	N84-22555
	13	p2002	N84-22988
	17	p2589	N84-26596
	17	p2597	N84-26645
	19	p2998	N84-28998
	23	p3691	N84-33395
F33615-80-C-3403	01	p0120	N84-10782
	01	p0120	N84-10783
F33615-80-C-3604	05	p0629	N84-14138
F33615-80-C-3623	06	p0791	N84-15160
F33615-80-C-5079	20	p3152	N84-30017
F33615-80-C-5103	18	p2943	N84-28663
F33615-80-C-5109	07	p1055	N84-16829
	10	p1563	N84-20240
	20	p3272	N84-30766
	20	p3273	N84-30774
	21	p3466	N84-31973
	24	p3947	N84-34991
F33615-80-C-5118	01	p0044	N84-10280
F33615-80-D-4000	14	p2173	N84-24018
F33615-80-K-0022	14	p2184	N84-24089
F33615-81-C-0005	08	p1106	N84-17190
	08	p1106	N84-17191
F33615-81-C-0006	21	p3509	N84-32229
F33615-81-C-0500	09	p1362	N84-18895
F33615-81-C-0501	18	p2907	N84-28434
F33615-81-C-0505	14	p2184	N84-24086
F33615-81-C-0513	06	p0897	N84-15822
F33615-81-C-0517	16	p2538	N84-26294
F33615-81-C-0621	09	p1279	N84-18354
F33615-81-C-1406	07	p1080	N84-17021
	19	p3110	N84-29762
	23	p3830	N84-34292
F33615-81-C-1437	06	p0825	N84-15380
F33615-81-C-1517	13	p1925	N84-22528
F33615-81-C-1520	12	p1770	N84-21546
F33615-81-C-2007	01	p0052	N84-10335
F33615-81-C-2021	19	p2999	N84-29008
F33615-81-C-2025	13	p2047	N84-23280
F33615-81-C-2035	19	p3001	N84-29019
F33615-81-C-2052	19	p3016	N84-29118
F33615-81-C-2058	19	p2982	N84-28895
F33615-81-C-2061	07	p0997	N84-16467
F33615-81-C-2065	01	p0012	N84-10076
F33615-81-C-2067	07	p0954	N84-16187
F33615-81-C-2070	21	p3391	N84-31522
F33615-81-C-2074	09	p1257	N84-18205
F33615-81-C-2076	06	p0830	N84-15401
F33615-81-C-2092	12	p1803	N84-21753
F33615-81-C-3201	08	p1171	N84-17629
F33615-81-C-3220	15	p2281	N84-24702
F33615-81-C-3235	15	p2281	N84-24701
F33615-81-C-3410	12	p1860	N84-22118
F33615-81-C-3412	17	p2598	N84-26649
F33615-81-C-3416	17	p2606	N84-26694
F33615-81-C-3421	03	p0331	N84-12157
	03	p0331	N84-12158
F33615-81-C-3612	01	p0121	N84-10784
F33615-81-C-3620	02	p0177	N84-11162
F33615-81-C-3622	09	p1255	N84-18193
F33615-81-C-5015	19	p3036	N84-29261
	23	p3761	N84-33838
F33615-81-C-5019	08	p1137	N84-17393
F33615-81-C-5050	01	p0030	N84-10191
	19	p2988	N84-28921
F33615-81-C-5051	02	p0231	N84-11516
F33615-81-C-5095	23	p3825	N84-34256
	23	p3830	N84-34294
F33615-81-C-5119	24	p3948	N84-34999
F33615-81-K-0011	08	p1201	N84-17828
F33615-81-K-0014	04	p0572	N84-13770
F33615-81-K-0616	01	p0115	N84-10748
F33615-81-K-0618	11	p1695	N84-21056
F33615-81-K-0620	12	p1773	N84-21564
F33615-81-K-1418	12	p1812	N84-21815
F33615-81-K-1429	20	p3178	N84-30184
	20	p3178	N84-30187
F33615-81-K-1581	07	p1080	N84-17025
F33615-81-K-2003	03	p0372	N84-12421
F33615-81-K-3008	13	p1927	N84-22540
F33615-81-K-3020	19	p3086	N84-29592
F33615-81-K-3206	01	p0096	N84-10622
F33615-81-K-3225	01	p0031	N84-10194
	06	p0799	N84-15206
	14	p2120	N84-23704
F33615-81-K-5014	20	p3202	N84-30341
F33615-81-K-5082	07	p1016	N84-16593
F33615-82-C-0002	10	p1430	N84-19349
F33615-82-C-0013	06	p0900	N84-15839
F33615-82-C-0500	22	p3630	N84-33006
F33615-82-C-0501	12	p1899	N84-22368
	20	p3291	N84-30692
F33615-82-C-0511	13	p2020	N84-23099
	15	p2398	N84-25390
F33615-82-C-0521	15	p2404	N84-25428
F33615-82-C-0610	15	p2379	N84-25280
	21	p3453	N84-31912
F33615-82-C-1749	12	p1820	N84-21866
F33615-82-C-1785	09	p1259	N84-18220
F33615-82-C-1842	21	p3391	N84-31518
F33615-82-C-2210	24	p3890	N84-34631
F33615-82-C-2217	14	p2150	N84-23881
F33615-82-C-2224	24	p3916	N84-34796
F33615-82-C-2242	21	p3475	N84-32023
F33615-82-C-2244	17	p2663	N84-26991
F33615-82-C-3403	18	p2890	N84-28346
F33615-82-C-3605	24	p3858	N84-34446
F33615-82-C-5001	01	p0031	N84-10193
	07	p0968	N84-16272
	09	p1276	N84-18334
	15	p2391	N84-25352
	23	p3825	N84-34256
F33615-82-C-5016	14	p2122	N84-23720
F33615-82-C-5030	20	p3199	N84-30320
F33615-82-C-5039	03	p0331	N84-12161
	03	p0352	N84-12290
	13	p1964	N84-22762
	16	p2469	N84-25824
	24	p3862	N84-34474
F33615-82-C-5051	19	p2998	N84-28996
F33615-82-C-5076	06	p0922	N84-15994
F33615-82-C-5095	17	p2770	N84-27588
F33615-82-C-5102	22	p3555	N84-32510
	22	p3555	N84-32511
F33615-82-C-5114	13	p2057	N84-23341
	13	p2057	N84-23344
	17	p2770	N84-27590
	18	p2943	N84-28662
F33615-82-C-5121	13	p2063	N84-23381
	19	p3114	N84-29788
F33615-82-K-0631	20	p3256	N84-30670
F33615-82-K-0634	21	p3453	N84-31914
F33615-82-K-2256	09	p1278	N84-18345
F33615-82-K-3016	20	p3126	N84-29656
F33615-82-K-3021	09	p1252	N84-18174
F33615-82-K-5038	05	p0660	N84-14336
F33615-82-K-5108	24	p3910	N84-34786
F33615-82-M-3029	08	p1159	N84-17545
F33615-83-C-0511	11	p1606	N84-20516
F33615-83-C-1048	20	p3148	N84-29991
F33615-83-C-2370	24	p3901	N84-34703
F33615-83-C-3217	17	p2680	N84-27070
F33615-83-C-3401	20	p3141	N84-29945
F33615-83-C-5080	17	p2598	N84-26651
F33615-83-K-0504	20	p3260	N84-30691
F33615-83-K-0609	19	p3065	N84-29443
F33615-83-K-3008	14	p2111	N84-23657
F33615-83-K-5075	17	p2753	N84-27473
F33657-72-C-0379	20	p3141	N84-29942

F33657-76-C-2055	03	p0335	N84-12179
F33657-81-C-2100	05	p0628	N84-14131
F33657-81-C-2150	13	p1977	N84-22837
F34601-80-G-0192	09	p1310	N84-18563
F40600-79-C-0002	02	p0174	N84-11146
F40600-82-C-0005	19	p2958	N84-28751
F41000	06	p0786	N84-15148
F41689-81-C-0012	07	p1049	N84-16798
F41689-82-C-0068	22	p3636	N84-33060
F41689-83-C-0016	18	p2911	N84-28463
F42600-81-C-4713	20	p3143	N84-29958
F49260-78-C-0083	14	p2242	N84-24460
F49620-C-0182	14	p2233	N84-24398
F49620-77-C-0010	01	p0141	N84-10929
F49620-77-C-0013	08	p1159	N84-17548
F49620-77-C-0059	02	p0231	N84-11519
F49620-77-C-0087	14	p2242	N84-24461
F49620-77-C-0101	07	p1067	N84-16931
F49620-78-C-0009	08	p1234	N84-18068
F49620-78-C-0019	01	p0066	N84-10429
F49620-78-C-0036	10	p1493	N84-19763
F49620-78-C-0055	11	p1660	N84-20830
F49620-78-C-0071	09	p1314	N84-18585
	10	p1493	N84-19764
	13	p1990	N84-22917
	16	p2493	N84-25996
F49620-78-C-0088	01	p0084	N84-10545
F49620-78-C-0104	24	p3884	N84-34605
F49620-79-C-0003	17	p2601	N84-26670
F49620-79-C-0036	10	p1517	N84-19929
F49620-79-C-0054	23	p3833	N84-34315
F49620-79-C-0058	08	p1223	N84-17984
	20	p3273	N84-30776
	24	p3898	N84-34683
F49620-79-C-0085	09	p1333	N84-18705
F49620-79-C-0099	15	p2386	N84-25306
F49620-79-C-0117	24	p3952	N84-35029
F49620-79-C-0131	03	p0424	N84-12771
F49620-79-C-0137	19	p3077	N84-29524
F49620-79-C-0143	01	p0123	N84-10803
F49620-79-C-0149	11	p1714	N84-21179
F49620-79-C-0159	02	p0295	N84-11931
	05	p0647	N84-14258
F49620-79-C-0178	09	p1309	N84-18559
F49620-79-C-0181	07	p1057	N84-16849
	08	p1215	N84-17929
	10	p1567	N84-20266
	14	p2209	N84-24262
	16	p2546	N84-26342
F49620-79-C-0188	24	p3954	N84-35036
F49620-79-C-0191	01	p0138	N84-10905
	14	p2142	N84-23843
F49620-79-C-0198	16	p2557	N84-26405
F49620-79-C-0206	01	p0096	N84-10623
	14	p2120	N84-23706
F49620-79-C-0233	11	p1702	N84-21100
F49620-80-C-0001	05	p0726	N84-14764
	09	p1369	N84-18937
	14	p2203	N84-24220
F49620-80-C-0002	05	p0752	N84-14934
F49620-80-C-0005	09	p1392	N84-19088
F49620-80-C-0008	18	p2940	N84-28649
F49620-80-C-0013	15	p2383	N84-25289
F49620-80-C-0014	01	p0106	N84-10689
F49620-80-C-0017	21	p3497	N84-32163
F49620-80-C-0020	09	p1397	N84-19123
F49620-80-C-0026	05	p0744	N84-14886
F49620-80-C-0029	05	p0684	N84-14499
F49620-80-C-0030	05	p0654	N84-14297
F49620-80-C-0041	09	p1390	N84-19077
F49620-80-C-0043	05	p0680	N84-14468
	13	p1927	N84-22539
F49620-80-C-0046	01	p0083	N84-10539
F49620-80-C-0047	08	p1136	N84-17391
F49620-80-C-0060	03	p0349	N84-12270
F49620-80-C-0061	08	p1166	N84-17594
F49620-80-C-0068	11	p1662	N84-20846
	11	p1662	N84-20847
	11	p1663	N84-20848
	11	p1663	N84-20849
	13	p1995	N84-22946
	13	p1995	N84-22949
	13	p2043	N84-23255
F49620-80-C-0074	05	p0647	N84-14257
F49620-80-C-0086	02	p0206	N84-11341
	14	p2134	N84-23791
F49620-80-C-0091	03	p0346	N84-12251
F49620-80-C-0101	15	p2328	N84-24979
	15	p2328	N84-24980
	15	p2328	N84-24981
F49620-81-C-0006	05	p0753	N84-14937
F49620-81-C-0013	06	p0914	N84-15943
F49620-81-C-0015	01	p0066	N84-10434
	01	p0134	N84-10875
	22	p3649	N84-33133
F49620-81-C-0016	06	p0915	N84-15946
F49620-81-C-0018	13	p1945	N84-22644
F49620-81-C-0024	01	p0142	N84-10932
F49620-81-C-0027	13	p1944	N84-22643
F49620-81-C-0030	10	p1455	N84-19505
F49620-81-C-0036	24	p3889	N84-34625
F49620-81-C-0038	15	p2413	N84-25484
F49620-81-C-0040	03	p0360	N84-12340
F49620-81-C-0041	10	p1422	N84-19298
F49620-81-C-0043	18	p2796	N84-27741
F49620-81-C-0047	03	p0379	N84-12470
F49620-81-C-0051	19	p3081	N84-29549
F49620-81-C-0053	08	p1158	N84-17538
F49620-81-C-0055	06	p0889	N84-15775
F49620-81-C-0065	11	p1681	N84-20973
F49620-81-C-0067	19	p3079	N84-29534
F49620-81-C-0070	01	p0072	N84-10470
F49620-81-C-0072	05	p0735	N84-14824
F49620-81-C-0073	02	p0281	N84-11842
F49620-81-C-0077	09	p1321	N84-18627
F49620-81-C-0079	23	p3755	N84-33799
F49620-81-C-0086	13	p2043	N84-23256
F49620-81-C-0090	10	p1588	N84-20405
F49620-81-C-0097	09	p1322	N84-18639
F49620-81-C-0098	09	p1321	N84-18634
F49620-81-K-0001	09	p1287	N84-18404
F49620-81-K-0006	18	p2811	N84-27846
F49620-81-K-0007	16	p2502	N84-26060
F49620-81-K-0011	01	p0156	N84-11027
	07	p0966	N84-16260
F49620-81-K-0012	22	p3663	N84-33221
F49620-81-K-0016	08	p1232	N84-18049
F49620-81-K-0017	01	p0140	N84-10917
F49620-82-C-0001	01	p0083	N84-10543
	09	p1318	N84-18612
	20	p3189	N84-30258
F49620-82-C-0002	24	p3920	N84-34814
F49620-82-C-0007	09	p1368	N84-18930
F49620-82-C-0009	02	p0282	N84-11845
	03	p0425	N84-12782
	03	p0427	N84-12798
	03	p0427	N84-12799
	06	p0901	N84-15847
	06	p0904	N84-15867
	06	p0904	N84-15868
	08	p1219	N84-17959
	09	p1299	N84-18492
	09	p1376	N84-18985
	09	p1376	N84-18986
	09	p1381	N84-19018
	09	p1384	N84-19041
	11	p1717	N84-21202
F49620-82-C-0013	13	p1945	N84-22646
	13	p1947	N84-22660
	13	p1952	N84-22689
F49620-82-C-0017	05	p0679	N84-14466
F49620-82-C-0018	02	p0184	N84-11196
	06	p0933	N84-16064
	17	p2614	N84-26734
F49620-82-C-0020	05	p0680	N84-14471
F49620-82-C-0025	11	p1603	N84-20498
F49620-82-C-0028	02	p0194	N84-11260
F49620-82-C-0030	01	p0147	N84-10965
	22	p3657	N84-33185
F49620-82-C-0032	16	p2493	N84-25997
F49620-82-C-0033	02	p0213	N84-11397
F49620-82-C-0035	01	p0157	N84-11032
	03	p0457	N84-13009
	11	p1701	N84-21099
	14	p2245	N84-24483
	14	p2245	N84-24484
	14	p2245	N84-24485
	14	p2246	N84-24486
F49620-82-C-0040	22	p3663	N84-33222
F49620-82-C-0047	02	p0223	N84-11464
F49620-82-C-0051	02	p0289	N84-11894
F49620-82-C-0053	14	p2141	N84-23835
F49620-82-C-0055	09	p1313	N84-18583
F49620-82-C-0057	05	p0645	N84-14242
F49620-82-C-0058	11	p1714	N84-21175
F49620-82-C-0061	09	p1252	N84-18175
F49620-82-C-0062	24	p3880	N84-34583
F49620-82-C-0064	10	p1570	N84-20290
F49620-82-C-0071	02	p0294	N84-11926
F49620-82-C-0074	05	p0742	N84-14877
F49620-82-C-0077	23	p3754	N84-33798
	23	p3755	N84-33800
	24	p3909	N84-34760
F49620-82-C-0078	19	p3110	N84-29763
F49620-82-C-0080	08	p1215	N84-17930
F49620-82-C-0083	15	p2413	N84-25489
F49620-82-C-0084	09	p1306	N84-18538
F49620-82-C-0089	10	p1555	N84-20191
F49620-82-C-0090	15	p2268	N84-24619
F49620-82-C-0092	09	p1249	N84-18155
F49620-82-C-0094	23	p3741	N84-33716
F49620-82-C-0095	01	p0083	N84-10539
F49620-82-C-0097	05	p0667	N84-14385
	11	p1643	N84-20744
F49620-82-K-0001	01	p0133	N84-10870
	03	p0425	N84-12787
	18	p2925	N84-28549
	24	p3952	N84-35024
F49620-82-K-0004	17	p2727	N84-27359
F49620-82-K-0006	09	p1362	N84-18899
F49620-82-K-0007	05	p0739	N84-14855
	05	p0739	N84-14857
	05	p0740	N84-14859
	11	p1713	N84-21169
F49620-82-K-0008	19	p3007	N84-29064
	24	p3898	N84-34687
F49620-82-K-0009	02	p0278	N84-11821
	05	p0732	N84-14808
	15	p2384	N84-25300
F49620-82-K-0012	18	p2926	N84-28556
F49620-82-K-0013	09	p1333	N84-18701
F49620-82-K-0014	10	p1548	N84-20147
	18	p2900	N84-28394
F49620-82-K-0015	22	p3601	N84-32809
F49620-82-K-0016	09	p1362	N84-18897
F49620-82-K-0017	06	p0899	N84-15838
	06	p0933	N84-16063
F49620-82-K-0022	09	p1320	N84-18625
F49620-82-K-0023	24	p3961	N84-35087
F49620-82-K-0024	06	p0888	N84-15770
F49620-82-K-0028	24	p3966	N84-35116
F49620-82-K-0029	09	p1254	N84-18186
F49620-82-K-0031	08	p1212	N84-17905
F49620-82-K-0083	09	p1316	N84-18599
F49620-83-C-0001	24	p3937	N84-34921
F49620-83-C-0008	11	p1730	N84-21285
F49620-83-C-0011	05	p0645	N84-14244
	05	p0648	N84-14260
	05	p0753	N84-14937
	05	p0753	N84-14938
F49620-83-C-0016	02	p0227	N84-11486
F49620-83-C-0026	15	p2379	N84-25278
F49620-83-C-0027	19	p3029	N84-29209
F49620-83-C-0029	19	p3042	N84-29303
F49620-83-C-0035	19	p3110	N84-29760
F49620-83-C-0039	18	p2846	N84-28069
F49620-83-C-0048	23	p3746	N84-33750
F49620-83-C-0052	18	p2914	N84-28481
F49620-83-C-0054	17	p2623	N84-26789
F49620-83-C-0055	17	p2624	N84-26797
F49620-83-C-0059	24	p3937	N84-34922
F49620-83-C-0061	19	p3053	N84-29377
F49620-83-C-0062	13	p1933	N84-22569
F49620-83-C-0066	20	p3260	N84-30689
F49620-83-C-0082	14	p2205	N84-24234
	15	p2336	N84-25025
	15	p2397	N84-25384
	15	p2398	N84-25385
	15	p2398	N84-25386
	15	p2400	N84-25404
	15	p2407	N84-25452
	19	p3042	N84-29300
	19	p3042	N84-29302
	22	p3640	N84-33079
	22	p3643	N84-33098
	22	p3646	N84-33118
F49620-83-C-0085	19	p3007	N84-29063
F49620-83-C-0095	23	p3822	N84-34240
F49620-83-C-0096	10	p1571	N84-20295
F49620-83-C-0112	09	p1394	N84-19104
F49620-83-C-0134	24	p3898	N84-34688
F49620-83-C-0149	22	p3601	N84-32808
F49620-83-C-0153	23	p3742	N84-33719
F49620-83-C-0160	21	p3386	N84-31488
F49620-83-K-0002	19	p3066	N84-29450
F49620-83-K-0004	13	p1943	N84-22637
F49620-83-K-0007	14	p2158	N84-23928
F49620-83-K-0018	22	p3640	N84-33081
F49620-83-K-0020	22	p3663	N84-33220
F49620-83-K-0021	19	p3013	N84-29096
F49620-83-K-0022	10	p1571	N84-20291
F49620-83-K-0023	19	p2966	N84-28797
	19	p2966	N84-28798
F49620-83-K-0025	20	p3241	N84-30573
F49629-82-K-0001	01	p0133	N84-10874
F49629-83-C-0084	08	p1216	N84-17936
F49642-81-C-0237	03	p0314	N84-12051
	03	p0314	N84-12052
	03	p0314	N84-12053
F49642-82-C-0129	19	p3088	N84-29601
F58524	03	p0459	N84-13021
	15	p2383	N84-25294
F61541	06	p0852	N84-15556
F61542	05	p0658	N84-14328
F65559	16	p2477	N84-25879
F66512	05	p0681	N84-14479
F41400000	06	p0784	N84-15137
F59551697	04	p0604	N84-13986

GA PROJ. 3235	02	p0299	N84-11962
	03	p0429	N84-12815
	03	p0448	N84-12949
GA PROJ. 3344	03	p0445	N84-12927
GA PROJ. 3384	02	p0219	N84-11436
GA PROJ. 3411	15	p2410	N84-25469
	22	p3659	N84-33197
GA PROJ. 7700	18	p2814	N84-27867
GRI-5081-211-0558	17	p2696	N84-27176
GRI-5081-241-0604	17	p2639	N84-26684
GRI-5081-360-0490	17	p2620	N84-26770
HA-514/59	14	p2221	N84-24329
HDL PROJ. A103C4	02	p0209	N84-11368
HDL PROJ. A10225	10	p1585	N84-20391
HDL PROJ. Y91EY1	09	p1367	N84-18925
HDO-TNO-0.0373/K	20	p3176	N84-30168
HSE-1533	20	p3195	N84-30292
H42-BAXY	13	p1990	N84-22919
ISEA-2E/000	05	p0690	N84-14533
	05	p0690	N84-14534
	06	p0855	N84-15572
IWIS-06.17822	17	p2756	N84-27493
	17	p2756	N84-27494
I25-AAXH	18	p2811	N84-27847
I25-BMXI	13	p1995	N84-22947
	13	p2044	N84-23266
	15	p2350	N84-25108
JAYCOR PROJ. 6188	01	p0070	N84-10457
JHO/1033	06	p0919	N84-15971
JPL PROJ. 5030-569	18	p2947	N84-28682
JPL PROJ. 5101-238	18	p2935	N84-28614
JPL PROJ. 5101-244	18	p2868	N84-28210
JPL PROJ. 5105-129	18	p2871	N84-28223
JPL PROJ. 5105-132	18	p2869	N84-28212
JPL PROJ. 5105-133	18	p2871	N84-28224
JPL PROJ. 5105-136	22	p3617	N84-32918
JPL PROJ. 5220-22	18	p2870	N84-28220
JPL PROJ. 5220-23	22	p3675	N84-33299
JPL PROJ. 5260-32	22	p3618	N84-32922
JPL PROJ. 6072.1	18	p2868	N84-28209
	18	p2870	N84-28219
JPL-055567	23	p3789	N84-34028
JPL-953733	08	p1116	N84-17260
JPL-954334	19	p3049	N84-29348
	23	p3789	N84-34034
JPL-954527	18	p2868	N84-28209
	18	p2870	N84-28219
	23	p3789	N84-34029
JPL-954929	18	p2870	N84-28222
JPL-955089	23	p3787	N84-34020
JPL-955392	18	p2868	N84-28208
JPL-955533	23	p3786	N84-34015
JPL-955567	23	p3787	N84-34016
JPL-955640	23	p3788	N84-34024
JPL-955782	23	p3743	N84-33725
JPL-955843	23	p3787	N84-34019
JPL-955902	18	p2869	N84-28213
	18	p2869	N84-28214
JPL-955909	23	p3787	N84-34017
JPL-955954	02	p0211	N84-11382
JPL-956046	18	p2870	N84-28221
	18	p2939	N84-28640
	23	p3789	N84-34032
JPL-956053	23	p3788	N84-34023
JPL-956133	19	p3050	N84-29352
JPL-956205	23	p3786	N84-34014
	23	p3788	N84-34022
	23	p3789	N84-34030
	23	p3789	N84-34031
JPL-956249	04	p0517	N84-13397
JPL-956291	19	p2978	N84-28882
JPL-956312	18	p2938	N84-28634
	18	p2938	N84-28635
	23	p3787	N84-34018
JPL-956369	18	p2869	N84-28215
	18	p2869	N84-28216
JPL-956465	23	p3790	N84-34035
JPL-956525	19	p3049	N84-29351
JPL-956615	19	p3050	N84-29354
	19	p3050	N84-29355
	21	p3409	N84-31619
JPL-956616	19	p3050	N84-29353
	23	p3787	N84-34021
JPL-956685	19	p3049	N84-29349
JPL-956698	23	p3788	N84-34026
	23	p3789	N84-34033
JPL-956741	23	p3788	N84-34025
JPL-956797	23	p3788	N84-34027
J0094	04	p0492	N84-13227
J0318081	17	p2640	N84-26887
KC-04-02-01	04	p0496	N84-13255
KE-AC06-76FF-02170	02	p0194	N84-11263
KU-0T/VI/17	10	p1484	N84-19699
LR-154	20	p3301	N84-30960
L82/ALG/107	20	p3175	N84-30167
MA-7-38048	17	p2627	N84-26810
MAA903-81-C-0348	07	p1081	N84-17031
MBB-R3700/2642R	09	p1324	N84-18648
	17	p2673	N84-27035
MBB-3700/2950-R	17	p2616	N84-26744
MDA903-77-C-0211	16	p2542	N84-26316
MDA903-77-C-0272	06	p0824	N84-15375
	06	p0825	N84-15377
	06	p0825	N84-15378
MDA903-77-C-0331	01	p0123	N84-10800
MDA903-78-C-0128	05	p0753	N84-14942
	05	p0754	N84-14943
MDA903-78-C-0180	14	p2224	N84-24349
MDA903-78-C-0290	07	p1081	N84-17031
MDA903-78-C-0294	09	p1249	N84-18158
MDA903-78-C-2023	10	p1498	N84-19790
	10	p1498	N84-19791
MDA903-78-G-0008	24	p3937	N84-34920
MDA903-79-C-0018	10	p1503	N84-19825
	10	p1503	N84-19826
	10	p1503	N84-19827
	10	p1504	N84-19828
	10	p1504	N84-19829
	10	p1504	N84-19830
	10	p1504	N84-19831
	10	p1504	N84-19832
	10	p1504	N84-19833
	10	p1504	N84-19834
	10	p1504	N84-19835
	10	p1504	N84-19836
	11	p1646	N84-20766
	11	p1666	N84-20867
	12	p1882	N84-22267
	14	p2156	N84-23919
	16	p2477	N84-25878
	18	p2944	N84-28667
	19	p3007	N84-29057
	19	p3007	N84-29058
	20	p3127	N84-29860
	20	p3129	N84-29873
	20	p3129	N84-29874
	20	p3199	N84-30322
	21	p3343	N84-31211
	24	p3942	N84-34958
MDA903-79-C-0188	10	p1588	N84-20407
MDA903-79-C-0320	07	p0992	N84-16431
MDA903-79-C-0330	20	p3313	N84-31037
MDA903-79-C-0429	09	p1302	N84-18512
MDA903-79-C-0588	06	p0866	N84-15842
MDA903-79-C-0680	08	p1151	N84-17494
	09	p1307	N84-18542
	10	p1486	N84-19715
	23	p3818	N84-34208
MDA903-79-C-0687	10	p1557	N84-20199
	10	p1557	N84-20200
	10	p1557	N84-20201
	10	p1557	N84-20202
MDA903-79-C-0690	03	p0458	N84-13012
MDA903-80-C-0107	08	p1151	N84-17494
	08	p1209	N84-17888
	10	p1486	N84-19715
MDA903-80-C-0155	04	p0579	N84-13817
MDA903-80-C-0223	11	p1701	N84-21098
	11	p1702	N84-21101
MDA903-80-C-0345	05	p0719	N84-14712
MDA903-80-C-0353	05	p0670	N84-14405
	09	p1298	N84-18486
MDA903-80-C-0432	08	p1151	N84-17494
	10	p1486	N84-19715
MDA903-80-C-0476	06	p0823	N84-15363
MDA903-80-C-0496	03	p0349	N84-12266
MDA903-80-M-8914	18	p2943	N84-28665
MDA903-81-C-0100	05	p0754	N84-14944
MDA903-81-C-0126	08	p1210	N84-17890
MDA903-81-C-0166	05	p0626	N84-14115
	06	p0935	N84-16077
	08	p1238	N84-18092
	19	p2960	N84-28763
	19	p3116	N84-29798
MDA903-81-C-0216	21	p3459	N84-31942
MDA903-81-C-0290	13	p1999	N84-22970
MDA903-81-C-0333	05	p0731	N84-14802
	13	p1980	N84-22857
MDA903-81-C-0335	09	p1303	N84-18515
	09	p1369	N84-18935
	09	p1402	N84-19159
	09	p1404	N84-19177
	15	p2418	N84-25517
	19	p2984	N84-28910
	20	p3272	N84-30772
	21	p3465	N84-31967
	23	p3730	N84-33643
	23	p3812	N84-34173
	23	p3817	N84-34201
MDA903-81-C-0348	03	p0452	N84-12975
	03	p0452	N84-12976
	03	p0452	N84-12977
MDA903-81-C-0365	19	p3088	N84-29601
	24	p3951	N84-35015
MDA903-81-C-0386	11	p1620	N84-20606
MDA903-81-C-0411	18	p2833	N84-27986
MDA903-81-C-0484	03	p0451	N84-12969
MDA903-81-C-0541	10	p1554	N84-20184
	10	p1592	N84-20428
MDA903-81-C-0555	09	p1284	N84-18385
MDA903-81-C-0568	15	p2382	N84-25288
MDA903-81-C-0578	06	p0922	N84-15997
MDA903-81-M-4220	14	p2247	N84-24491
MDA903-82-C-0061	09	p1371	N84-18955
	21	p3327	N84-31108
MDA903-82-C-0064	06	p0825	N84-15377
	06	p0825	N84-15378
	09	p1309	N84-18556
	11	p1644	N84-20747
MDA903-82-C-0068	02	p0184	N84-11195
MDA903-82-C-0101	19	p3074	N84-29507
MDA903-82-C-0102	07	p1051	N84-16809
MDA903-82-C-0140	19	p3066	N84-29451
MDA903-82-C-0159	01	p0153	N84-11005
	07	p1081	N84-17027
	10	p1588	N84-20409
MDA903-82-C-0160	01	p0147	N84-10963
MDA903-82-C-0339	09	p1398	N84-19129
MDA903-82-C-0348	04	p0612	N84-14038
MDA903-82-C-0376	07	p1084	N84-17050
MDA903-82-C-0385	10	p1525	N84-19991
MDA903-82-C-0390	08	p1146	N84-17456
MDA903-82-C-0398	10	p1479	N84-19667
MDA903-82-C-0427	17	p2619	N84-26759
MDA903-82-C-0434	19	p2998	N84-29000
MDA903-82-C-0511	21	p3386	N84-31492
MDA903-82-G-0055	03	p0457	N84-13010
	08	p1104	N84-17177
MDA903-82-K-0058	02	p0303	N84-11991
	18	p2849	N84-28091
MDA903-82-K-0153	09	p1363	N84-18905
MDA903-82-K-0382	11	p1713	N84-21166
MDA903-82-K-0412	09	p1396	N84-19117
MDA903-83-C-0024	09	p1299	N84-18490
	11	p1711	N84-21155
MDA903-83-C-0027	02	p0240	N84-11572
	03	p0394	N84-12574
MDA903-83-C-0051	17	p2773	N84-27606
MDA903-83-C-0053	06	p0897	N84-15823
	08	p1161	N84-17561
MDA903-83-C-0056	02	p0299	N84-11959
MDA903-83-C-0067	04	p0526	N84-13457
	15	p2329	N84-24986
MDA903-83-C-0103	14	p2105	N84-23625
MDA903-83-C-0108	20	p3308	N84-31010
MDA903-83-C-0156	05	p0753	N84-14936
	14	p2242	N84-24482
MDA903-83-C-0196	13	p1978	N84-22839
MDA903-83-C-0202	20	p3270	N84-30756
MDA903-83-C-0335	08	p1151	N84-17494
	10	p1486	N84-19715
	19	p3077	N84-29524
	20	p3178	N84-30185
MDA903-83-C-0342	10	p1591	N84-20425
	10	p1591	N84-20426
MDA903-83-C-0379	12	p1914	N84-22468
MDA903-83-C-0470	09	p1299	N84-18491
MDA903-83-K-0312	12	p1893	N84-22330
MDA903-83-K-0400	14	p2128	N84-23757
MDA903-83-M-5896	15	p2338	N84-25034
MDA903-84-C-0020	24	p3920	N84-34813
MDA903-84-C-0031	24	p3969	N84-35132
MDA903-84-C-0059	19	p3061	N84-29548
MDA903-84-K-0062	20	p3178	N84-30185
MDA904-82-C-0415	13	p1983	N84-22877
MH-33279	15	p2384	N84-25295
MIPR-ARO-6-82	14	p2140	N84-23632
MIPR-ARO-30-79	14	p2140	N84-23632
MIPR-ARO-42-80	14	p2140	N84-23632
MIPR-ARO-46-82	07	p1081	N84-17026
MIPR-ARO-51-81	14	p2140	N84-23632
MIPR-ARO-64-82	14	p2140	N84-23632
MIPR-ARO-101-83	14	p2140	N84-23632
MIPR-CES-82-3	03	p0358	N84-12331
MIPR-CES-82-3A	03	p0358	N84-12331
MIPR-CIAO-81-58	01	p0057	N84-10372
MIPR-FY1455-82-N0635	18	p2846	N84-28070
MIPR-FY1455-83-NO621	18	p2846	N84-28070
MIPR-FY1456-81-0014	13	p1954	N84-22704
	19	p2986	N84-28920
MIPR-FY1456-81-00017	11	p1652	N84-20784
MIPR-FY1456-83-N0026	17	p2609	N84-26703
MIPR-FY7121-79-00011	01	p0165	N84-11085
MIPR-FY7121-80-00003	01	p0165	N84-11085
MIPR-FY7121-81-00001	01	p0165	N84-11085
MIPR-FY7121-82-00007	01	p0028	N84-10179
MIPR-FY7121-82-00009	01	p0165	N84-11085
MIPR-FY7121-82-00015	06	p0810	N84-15272

MIPR-HC1001-9-400	01	p0070	N84-10454
MIPR-N-82-40	19	p2970	N84-28819
MIPR-N-84-18	20	p3166	N84-30104
MIPR-N84334-82-MP-00009	07	p1027	N84-16657
MIPR-RPL-39004	19	p2987	N84-28929
MIPR-5-82	21	p3366	N84-31355
MIPR-6-82	14	p2176	N84-24033
MIPR-8-81	21	p3366	N84-31355
MIPR-16-81	14	p2142	N84-23843
MIPR-26-78	21	p3366	N84-31354
	21	p3366	N84-31355
MIPR-27-80	21	p3366	N84-31354
	21	p3366	N84-31355
MIPR-30-79	14	p2176	N84-24033
MIPR-42-80	14	p2176	N84-24033
MIPR-51-81	14	p2176	N84-24033
MIPR-82-577	24	p3896	N84-34670
MIPR-82-676	05	p0643	N84-14232
MIPR-82-684	01	p0105	N84-10684
MIPR-101-83	14	p2176	N84-24033
MIPR-105-83	14	p2121	N84-23714
MIPR-113-84	19	p3002	N84-29023
MO-A01-78-00-4092	06	p0871	N84-15671
MO-A01-78-00-4137	01	p0060	N84-10392
MO-A01-78-00-4331	06	p1192	N84-17773
MO-A01-004332	23	p3770	N84-33897
	23	p3770	N84-33898
MOD-AT-2027/016/MAT	15	p2296	N84-24780
	15	p2299	N84-24802
MOD-2048/026XR/STR	15	p2257	N84-24554
MPI-FD7	09	p1408	N84-19200
	09	p1409	N84-19207
MRI PROJ. 7541-D	06	p0933	N84-16062
MR00001	05	p0713	N84-14674
MR00101	02	p0265	N84-11745
MR04101	07	p1047	N84-16792
	13	p2020	N84-23100
	15	p2380	N84-25285
MVMA PROJ. 1161	08	p1167	N84-17598
M00-95	09	p1363	N84-18904
M00-96-PN	12	p1865	N84-22155
	18	p2900	N84-28396
M00-97-PN	08	p1162	N84-17562
	22	p3599	N84-32793
M0100PN	03	p0459	N84-13021
M0933	15	p2383	N84-25294
M00140-80-C-0097	15	p2289	N84-24735
NAG-0226-52-1288	07	p1069	N84-16941
NAG-2384	13	p2034	N84-23193
NAG-7610	16	p2521	N84-26184
NAGW-3	09	p1351	N84-18830
NAGW-4	07	p1089	N84-17083
NAGW-14	06	p0938	N84-16095
	06	p0938	N84-16096
NAGW-18	17	p2781	N84-27657
NAGW-24	02	p0308	N84-12019
NAGW-34	09	p1352	N84-18832
NAGW-42	07	p1091	N84-17092
NAGW-52	05	p0639	N84-14202
NAGW-56	07	p1040	N84-16745
NAGW-60	09	p1357	N84-18867
NAGW-62	09	p1416	N84-19263
NAGW-69	05	p0638	N84-14196
NAGW-70	09	p1358	N84-18876
NAGW-76	03	p0466	N84-13068
	03	p0474	N84-13118
NAGW-78	18	p2932	N84-28595
NAGW-79	03	p0468	N84-13083
	03	p0469	N84-13088
NAGW-83	09	p1357	N84-18870
NAGW-91	19	p3123	N84-29844
NAGW-92	04	p0621	N84-14098
NAGW-95	02	p0237	N84-11553
	03	p0392	N84-12556
	14	p2167	N84-23976
	14	p2168	N84-23982
	14	p2168	N84-23984
NAGW-96	09	p1356	N84-18859
	09	p1356	N84-18860
NAGW-97	09	p1352	N84-18833
NAGW-104	08	p1245	N84-18138
NAGW-106	23	p3840	N84-34361
NAGW-116	07	p1090	N84-17090
	07	p1092	N84-17100
	16	p2576	N84-26530
NAGW-117	10	p1597	N84-20468
NAGW-124	20	p3319	N84-31068
NAGW-130	08	p1097	N84-17137
NAGW-131	09	p1357	N84-18865
NAGW-135	13	p2091	N84-23544
NAGW-139	03	p0464	N84-13057
NAGW-140	09	p1354	N84-18849
NAGW-163	23	p3840	N84-34361
NAGW-181	10	p1543	N84-20113
NAGW-200	03	p0471	N84-13099
	03	p0471	N84-13100
NAGW-201	16	p2575	N84-26528
NAGW-230	09	p1352	N84-18836
NAGW-232	07	p1092	N84-17101
	08	p1245	N84-18139
NAGW-235	05	p0638	N84-14195
	05	p0642	N84-14222
NAGW-236	09	p1353	N84-18843
NAGW-238	09	p1354	N84-18847
NAGW-239	09	p1352	N84-18837
NAGW-242	09	p1353	N84-18841
NAGW-249	03	p0468	N84-13083
	03	p0469	N84-13088
	03	p0473	N84-13115
NAGW-263	07	p1091	N84-17091
NAGW-264	03	p0473	N84-13113
NAGW-266	07	p1021	N84-16624
	14	p2168	N84-23987
	17	p2720	N84-27313
	21	p3426	N84-31732
NAGW-268	23	p3786	N84-34011
NAGW-277	09	p1354	N84-18848
NAGW-278	16	p2573	N84-26515
NAGW-294	08	p1246	N84-18142
NAGW-297	09	p1352	N84-18834
	17	p2740	N84-27395
NAGW-301	09	p1353	N84-18844
	09	p1353	N84-18845
NAGW-304	17	p2718	N84-27304
NAGW-308	09	p1355	N84-18856
NAGW-309	09	p1354	N84-18852
NAGW-316	23	p3843	N84-34383
NAGW-336	22	p3679	N84-33323
NAGW-337	03	p0465	N84-13058
	13	p2091	N84-23545
NAGW-338	09	p1354	N84-18851
NAGW-346	09	p1357	N84-18868
NAGW-356	09	p1354	N84-18846
NAGW-362	17	p2688	N84-27117
NAGW-363	22	p3614	N84-32896
NAGW-364	17	p2728	N84-27362
NAGW-365	03	p0342	N84-12223
NAGW-368	09	p1352	N84-18835
NAGW-370	07	p1028	N84-16663
NAGW-372	15	p2425	N84-25566
NAGW-387	07	p1060	N84-16872
NAGW-397	13	p2070	N84-23412
NAGW-411	23	p3843	N84-34385
NAGW-420	09	p1352	N84-18838
NAGW-438	09	p1357	N84-18869
NAGW-440	13	p2087	N84-23520
NAGW-441	23	p3840	N84-34360
NAGW-448	07	p1054	N84-16824
NAGW-455	21	p3427	N84-31739
NAGW-468	17	p2715	N84-27282
NAGW-469	09	p1354	N84-18850
NAGW-475	23	p3838	N84-34347
NAGW-478	15	p2332	N84-25002
	17	p2601	N84-26669
NAGW-480	09	p1356	N84-18861
NAGW-511	24	p3974	N84-35166
NAGW-543	21	p3523	N84-32316
NAGW-3542	07	p1089	N84-17062
NAG1-1	07	p0992	N84-16430
NAG1-11	07	p1069	N84-16943
NAG1-18	08	p1155	N84-17520
NAG1-20	16	p2543	N84-26324
NAG1-21	08	p1143	N84-17437
	09	p1277	N84-18340
NAG1-37	07	p1001	N84-16489
	09	p1385	N84-19044
NAG1-58	01	p0139	N84-10910
	02	p0287	N84-11882
	07	p1069	N84-16941
	18	p2928	N84-28569
	21	p3490	N84-32115
	21	p3490	N84-32116
	21	p3490	N84-32117
	22	p3651	N84-33145
	22	p3652	N84-33146
NAG1-75	01	p0002	N84-10017
NAG1-76	08	p1098	N84-17140
NAG1-84	07	p1022	N84-16631
NAG1-87	07	p1035	N84-16711
NAG1-95	07	p1058	N84-16855
	07	p1058	N84-16856
NAG1-107	12	p1899	N84-22365
NAG1-112	07	p0945	N84-16134
NAG1-122	02	p0238	N84-11563
NAG1-126	07	p0964	N84-16248
NAG1-135	07	p1009	N84-16544
NAG1-138	07	p1054	N84-16823
NAG1-154	09	p1393	N84-19096
NAG1-157	21	p3344	N84-31214
NAG1-158	03	p0388	N84-12527
NAG1-164	19	p3029	N84-29207
NAG1-166	08	p1227	N84-18017
	21	p3491	N84-32120
NAG1-168	12	p1826	N84-21902
NAG1-173	10	p1419	N84-19283
NAG1-182	04	p0539	N84-13548
NAG1-184	22	p3534	N84-32377
NAG1-186	08	p1222	N84-17977
NAG1-198	03	p0418	N84-12732
NAG1-203	07	p0943	N84-16115
	07	p0943	N84-16116
	07	p0943	N84-16117
	07	p0943	N84-16118
	07	p0951	N84-16167
NAG1-211	16	p2535	N84-26274
NAG1-216	17	p2671	N84-27024
NAG1-225	09	p1265	N84-18262
NAG1-226	07	p1058	N84-16857
NAG1-227	06	p0809	N84-15268
	09	p1288	N84-18411
	16	p2471	N84-25840
NAG1-228	07	p1000	N84-16486
	09	p1313	N84-18577
NAG1-231	19	p3035	N84-29251
NAG1-235	14	p2158	N84-23926
NAG1-242	22	p3637	N84-33056
NAG1-243	22	p3639	N84-33071
NAG1-248	02	p0188	N84-11220
NAG1-250	08	p1103	N84-17171
NAG1-252	01	p0041	N84-10266
NAG1-256	24	p3860	N84-34465
NAG1-257	07	p1012	N84-16565
	18	p2852	N84-28108
NAG1-258	10	p1568	N84-20273
NAG1-260	12	p1876	N84-22228
NAG1-261	21	p3325	N84-31097
NAG1-263	07	p1069	N84-16945
NAG1-264	11	p1627	N84-20648
NAG1-269	01	p0128	N84-10836
NAG1-270	01	p0128	N84-10836
	09	p1372	N84-18959
	10	p1420	N84-19286
NAG1-271	12	p1877	N84-22230
NAG1-278	07	p0978	N84-16335
	07	p1015	N84-16583
NAG1-283	21	p3491	N84-32121
NAG1-284	02	p0199	N84-11294
NAG1-286	04	p0491	N84-13221
	04	p0491	N84-13222
NAG1-288	07	p1050	N84-16804
NAG1-296	20	p3277	N84-30801
NAG1-297	08	p1157	N84-17532
NAG1-300	18	p2791	N84-27717
NAG1-301	09	p1329	N84-18680
NAG1-304	04	p0547	N84-13607
NAG1-305	08	p1103	N84-17172
NAG1-306	20	p3126	N84-29853
NAG1-318	24	p3861	N84-34467
NAG1-321	08	p1169	N84-17616
	18	p2852	N84-28110
NAG1-322	10	p1553	N84-20175
NAG1-330	07	p0946	N84-16135
NAG1-332	08	p1149	N84-17478
NAG1-339	16	p2464	N84-25791
	16	p2464	N84-25792
NAG1-343	07	p0967	N84-16264
	16	p2460	N84-25767
	16	p2460	N84-25768
	16	p2460	N84-25769
	18	p2809	N84-27830
NAG1-345	07	p0950	N84-16163
	07	p0953	N84-16179
NAG1-349	07	p0964	N84-16246
	21	p3353	N84-31267
	21	p3463	N84-31954
NAG1-355	08	p1217	N84-17941
NAG1-370	01	p0093	N84-10608
NAG1-378	09	p1275	N84-18326
NAG1-383	14	p2244	N84-24476
NAG1-390	21	p3491	N84-32123
NAG1-392	09	p1312	N84-18575
NAG1-402	18	p2786	N84-27681
NAG1-410	18	p2924	N84-28544
NAG1-451	22	p3633	N84-33020
NAG1-468	22	p3542	N84-32423
NAG2-42	09	p1312	N84-18571
NAG2-48	18	p2845	N84-28066
NAG2-82	13	p2034	N84-23193
NAG2-85	16	p2457	N84-25756
NAG2-93	08	p1245	N84-18137
NAG2-100	17	p2739	N84-27394
NAG2-105	08	p1156	N84-17526
NAG2-110	12	p1766	N84-21517
NAG2-112	21	p3460	N84-31945
NAG2-115	17	p2599	N84-26661
NAG2-116	14	p2104	N84-23620
	21	p3344	N84-31216
NAG2-123	19	p3068	N84-29464

NAG2-134	16	p2575	N84-26525
NAG2-145	24	p3989	N84-35241
NAG2-153	24	p3995	N84-35283
NAG2-159	12	p1912	N84-22458
NAG2-160	08	p1097	N84-17133
NAG2-170	08	p1204	N84-17852
NAG2-177	19	p3026	N84-29192
NAG2-179	07	p0945	N84-16131
NAG2-189	06	p0905	N84-15877
NAG2-201	07	p1020	N84-16619
NAG2-202	16	p2543	N84-26325
	16	p2544	N84-26326
	16	p2544	N84-26327
	17	p2751	N84-27460
	19	p3080	N84-29542
NAG2-203	06	p0905	N84-15877
NAG2-208	16	p2574	N84-26523
NAG2-219	18	p2836	N84-27999
NAG2-220	21	p3412	N84-31634
	21	p3412	N84-31635
	21	p3412	N84-31636
	21	p3412	N84-31637
NAG2-256	19	p3022	N84-29161
NAG2-272	24	p3936	N84-34914
NAG2-278	21	p3398	N84-31559
NAG3-5	12	p1905	N84-22405
NAG3-9	01	p0003	N84-10022
	06	p0822	N84-15360
NAG3-16	15	p2361	N84-25168
NAG3-17	11	p1601	N84-20488
NAG3-20	08	p1116	N84-17258
NAG3-22	01	p0042	N84-10267
NAG3-23	13	p2001	N84-22980
NAG3-27	22	p3561	N84-32552
NAG3-28	07	p0947	N84-16145
	07	p0947	N84-16146
NAG3-32	06	p0858	N84-15589
NAG3-33	21	p3420	N84-31690
NAG3-41	10	p1516	N84-19925
NAG3-44	11	p1633	N84-20676
NAG3-47	11	p1608	N84-20524
NAG3-50	10	p1516	N84-19927
NAG3-54	21	p3420	N84-31693
NAG3-57	05	p0652	N84-14287
	10	p1458	N84-19523
NAG3-72	04	p0531	N84-13490
NAG3-74	10	p1490	N84-19744
	10	p1491	N84-19745
	10	p1491	N84-19746
NAG3-83	16	p2439	N84-25646
NAG3-84	09	p1406	N84-19185
NAG3-91	17	p2628	N84-26813
NAG3-98	09	p1290	N84-18420
NAG3-124	16	p2554	N84-26384
NAG3-129	15	p2301	N84-24810
NAG3-131	01	p0009	N84-10054
	04	p0485	N84-13189
NAG3-132	15	p2389	N84-25336
NAG3-142	18	p2821	N84-27909
NAG3-147	11	p1612	N84-20554
	21	p3355	N84-31280
NAG3-159	14	p2113	N84-23662
NAG3-160	12	p1826	N84-21905
NAG3-161	17	p2762	N84-27544
NAG3-186	16	p2498	N84-26027
NAG3-190	04	p0485	N84-13187
	11	p1609	N84-20532
	19	p3021	N84-29155
	20	p3130	N84-29877
	22	p3536	N84-32390
NAG3-201	09	p1313	N84-18578
	10	p1471	N84-19606
	10	p1490	N84-19741
NAG3-204	20	p3130	N84-29875
NAG3-205	08	p1139	N84-17410
NAG3-209	09	p1274	N84-18322
NAG3-212	09	p1256	N84-18202
NAG3-214	15	p2262	N84-24586
NAG3-219	06	p0873	N84-15681
NAG3-220	07	p0996	N84-16459
	15	p2327	N84-24975
NAG3-222	07	p1074	N84-16984
NAG3-223	24	p3912	N84-34774
NAG3-227	21	p3355	N84-31279
NAG3-244	21	p3365	N84-31344
NAG3-245	11	p1611	N84-20546
NAG3-246	01	p0094	N84-10612
NAG3-249	19	p3044	N84-29312
NAG3-260	23	p3694	N84-33412
NAG3-263	07	p1012	N84-16562
NAG3-266	14	p2131	N84-23775
NAG3-270	16	p2485	N84-25941
NAG3-273	08	p1098	N84-17139
NAG3-276	12	p1796	N84-21716
	12	p1797	N84-21721
NAG3-277	01	p0061	N84-10401
NAG3-288	15	p2319	N84-24918
NAG3-292	14	p2109	N84-23649
NAG3-294	11	p1612	N84-20554
NAG3-295	13	p1963	N84-22753
NAG3-298	21	p3420	N84-31695
NAG3-303	07	p0996	N84-16458
NAG3-305	22	p3582	N84-32682
NAG3-316	15	p2327	N84-24974
NAG3-317	21	p3420	N84-31692
NAG3-318	15	p2331	N84-25000
NAG3-319	21	p3420	N84-31694
NAG3-320	08	p1115	N84-17252
NAG3-328	06	p0854	N84-15565
NAG3-329	21	p3420	N84-31696
NAG3-333	18	p2936	N84-28621
NAG3-339	02	p0279	N84-11831
NAG3-340	05	p0689	N84-14526
NAG3-346	21	p3421	N84-31697
NAG3-348	11	p1633	N84-20674
	22	p3554	N84-32503
NAG3-350	11	p1610	N84-20542
NAG3-353	11	p1613	N84-20555
NAG3-362	08	p1168	N84-17606
NAG3-370	11	p1609	N84-20530
NAG3-373	12	p1826	N84-21903
	21	p3419	N84-31685
NAG3-382	10	p1454	N84-19495
NAG3-394	22	p3676	N84-33306
NAG3-401	11	p1609	N84-20535
NAG3-418	14	p2136	N84-23807
NAG3-419	16	p2481	N84-25909
NAG3-420	24	p3897	N84-34675
NAG3-434	10	p1485	N84-19709
NAG3-449	07	p1075	N84-16991
	15	p2367	N84-25204
NAG3-464	24	p3878	N84-34575
NAG3-475	10	p1473	N84-19620
	20	p3172	N84-30145
	22	p3575	N84-32645
NAG3-536	15	p2320	N84-24924
NAG3-3161	10	p1432	N84-19360
NAG4-1	09	p1257	N84-18207
	12	p1771	N84-21551
	15	p2264	N84-24593
NAG4-7	05	p0781	N84-14990
NAG4-9	07	p1059	N84-16859
NAG5-10	23	p3774	N84-33923
NAG5-17	08	p1228	N84-18026
NAG5-20	09	p1336	N84-18725
	09	p1336	N84-18726
NAG5-30	23	p3767	N84-33877
NAG5-31	13	p2005	N84-23006
	13	p2005	N84-23007
	17	p2652	N84-26960
	23	p3769	N84-33889
NAG5-32	05	p0696	N84-14572
	08	p1185	N84-17722
NAG5-35	18	p2878	N84-28276
NAG5-38	24	p3972	N84-35154
NAG5-47	08	p1242	N84-18122
NAG5-49	06	p0864	N84-15628
NAG5-58	07	p1035	N84-16717
	08	p1190	N84-17755
	10	p1578	N84-20336
NAG5-69	23	p3838	N84-34349
NAG5-77	06	p0864	N84-15631
NAG5-82	07	p1089	N84-17079
	24	p3970	N84-35139
	24	p3978	N84-35197
NAG5-83	01	p0099	N84-10642
NAG5-87	03	p0468	N84-13084
	08	p1242	N84-18121
	24	p3974	N84-35166
NAG5-102	11	p1685	N84-20988
NAG5-106	07	p1035	N84-16712
NAG5-107	08	p1186	N84-17729
NAG5-126	16	p2575	N84-26527
NAG5-130	03	p0474	N84-13118
NAG5-131	06	p0865	N84-15632
NAG5-134	07	p1023	N84-16636
NAG5-136	08	p1186	N84-17726
NAG5-137	20	p3245	N84-30595
NAG5-156	07	p1079	N84-17016
NAG5-160	15	p2357	N84-25141
NAG5-190	21	p3522	N84-32315
NAG5-201	07	p1089	N84-17081
NAG5-205	07	p1089	N84-17080
NAG5-211	07	p0996	N84-16457
NAG5-220	08	p1234	N84-18066
NAG5-234	02	p0207	N84-11352
	02	p0207	N84-11353
	02	p0279	N84-11829
	07	p0991	N84-16422
	16	p2541	N84-26312
	16	p2541	N84-26313
	21	p3470	N84-31992
	24	p3945	N84-34977
NAG5-266	07	p1089	N84-17079
NAG5-267	21	p3518	N84-32282
NAG5-268	23	p3776	N84-33952
NAG5-271	08	p1173	N84-17642
NAG5-275	08	p1242	N84-18120
NAG5-287	22	p3677	N84-33310
NAG5-294	22	p3678	N84-33315
NAG5-297	16	p2528	N84-26232
NAG5-300	11	p1681	N84-20972
NAG5-310	17	p2727	N84-27356
NAG5-316	09	p1267	N84-18276
NAG5-319	09	p1344	N84-18762
NAG5-321	21	p3427	N84-31736
	22	p3613	N84-32894
NAG5-325	15	p2319	N84-24923
NAG5-346	22	p3678	N84-33316
NAG5-354	17	p2716	N84-27291
NAG5-356	14	p2150	N84-23879
NAG5-368	13	p2027	N84-23140
NAG5-377	24	p3942	N84-34957
NAG5-394	22	p3622	N84-32950
NAG5-601	05	p0639	N84-14202
NAG5-613	03	p0466	N84-13071
NAG5-615	24	p3933	N84-34897
NAG5-28209	12	p1871	N84-22190
NAG6-5	07	p1032	N84-16698
NAG6-11	05	p0639	N84-14202
NAG6-12	05	p0639	N84-14202
NAG6-15	07	p1036	N84-16719
NAG8-362	01	p0184	N84-11077
NAG8-383	16	p2577	N84-26537
NAG8-431	08	p1246	N84-18147
NAG8-433	09	p1413	N84-19240
NAG8-446	06	p0941	N84-16112
NAG9-25	09	p1360	N84-18887
	09	p1360	N84-18888
	09	p1361	N84-18889
NAG9-29	07	p1091	N84-17093
NAG9-42	07	p1090	N84-17089
NAG05-11	18	p2879	N84-28279
NAMRL PROJ. F51524	03	p0413	N84-12706
NAMRL PROJ. F58524	03	p0413	N84-12704
	03	p0413	N84-12705
NAMRL PROJ. F58528	03	p0415	N84-12716
NAMRL PROJ. M0096	04	p0484	N84-13183
NAMRL PROJ. M0096PN	03	p0413	N84-12703
NAONR-18-69	08	p1132	N84-17363
NAS-C-60878-D	01	p0102	N84-10662
NASA ORDER C-055049-D	03	p0370	N84-12411
NASA ORDER C-2742911	12	p1841	N84-22001
NASA ORDER H-27954-B	08	p1136	N84-17384
NASA ORDER H-59314-B	17	p2715	N84-27287
NASA ORDER L-7965-B	19	p3020	N84-29151
NASA ORDER S-5705-AG	09	p1341	N84-18758
NASA ORDER S-10757-C	02	p0237	N84-11554
	03	p0392	N84-12555
	07	p1021	N84-16622
	13	p2004	N84-23003
	17	p2709	N84-27247
NASA ORDER S-10772-C	04	p0551	N84-13626
	08	p1173	N84-17641
NASA ORDER S-12407-C	04	p0553	N84-13643
NASA ORDER S-50864-A	03	p0470	N84-13097
NASA ORDER S-79678-B	07	p1021	N84-16625
NASA ORDER S-98091-B	04	p0552	N84-13634
NASA ORDER S-714408-B	10	p1485	N84-19707
NASA ORDER T-9388-J	24	p3859	N84-34481
NASA ORDER W-13709	24	p3989	N84-35242
NASA ORDER W-14606	01	p0155	N84-11023
NASA ORDER W-15084	17	p2714	N84-27278
NASA ORDER WO-8395	24	p3989	N84-35242
NASW-448	21	p3464	N84-31957
NASW-2974	10	p1500	N84-19803
NASW-3035	13	p1936	N84-22590
	13	p1936	N84-22591
NASW-3159	17	p2774	N84-27614
NASW-3165	04	p0488	N84-13206
	20	p3256	N84-30664
	22	p3628	N84-32990
NASW-3199	10	p1490	N84-19742
	23	p3694	N84-33413
	23	p3804	N84-34117
NASW-3244	05	p0764	N84-15012
NASW-3247	10	p1558	N84-20207
	12	p1878	N84-22242
NASW-3291	10	p1497	N84-19784
NASW-3309	19	p2979	N84-28884
NASW-3317	15	p2378	N84-25272
NASW-3367	05	p0764	N84-15013
	12	p1922	N84-22524
NASW-3389	11	p1677	N84-20947
	14	p2166	N84-23974
	14	p2175	N84-24030
NASW-3425	16	p2542	N84-26317
	16	p2542	N84-26318

	20	p3268	N84-30737
NASW-3435	09	p1312	N84-18572
NASW-3455	14	p2133	N84-23783
	15	p2265	N84-24600
NASW-3482	18	p2798	N84-27757
NASW-3488	07	p0986	N84-16388
	12	p1805	N84-21767
	12	p1805	N84-21768
NASW-3503	05	p0702	N84-14607
NASW-3504	06	p0919	N84-15972
NASW-3510	07	p0986	N84-16258
NASW-3511	20	p3276	N84-30799
NASW-3541	01	p0057	N84-10370
	01	p0069	N84-10452
	02	p0293	N84-11922
	05	p0626	N84-14119
	05	p0702	N84-14608
	05	p0764	N84-15014
	06	p0781	N84-15116
	06	p0782	N84-15122
	06	p0782	N84-15124
	06	p0846	N84-15519
	06	p0852	N84-15552
	06	p0891	N84-15789
	07	p0946	N84-16137
	07	p0950	N84-16164
	07	p0950	N84-16166
	07	p0959	N84-16219
	07	p0961	N84-16228
	07	p0969	N84-16277
	07	p0974	N84-16310
	07	p1001	N84-16491
	07	p1025	N84-16639
	07	p1042	N84-16755
	07	p1042	N84-16756
	07	p1051	N84-16806
	07	p1091	N84-17094
	07	p1091	N84-17095
	08	p1123	N84-17302
	08	p1197	N84-17804
	09	p1249	N84-18153
	09	p1251	N84-18169
	09	p1251	N84-18170
	09	p1256	N84-18214
	09	p1275	N84-18324
	09	p1277	N84-18338
	09	p1277	N84-18339
	09	p1291	N84-18430
	09	p1343	N84-18773
	09	p1343	N84-18774
	09	p1416	N84-19264
	10	p1432	N84-19359
	10	p1450	N84-19470
	10	p1451	N84-19477
	10	p1451	N84-19478
	10	p1453	N84-19491
	10	p1453	N84-19492
	10	p1465	N84-19569
	10	p1471	N84-19607
	10	p1485	N84-19706
	10	p1556	N84-20196
	10	p1587	N84-20402
	10	p1587	N84-20403
	11	p1601	N84-20489
	11	p1632	N84-20671
	11	p1636	N84-20696
	11	p1636	N84-20697
	11	p1636	N84-20698
	11	p1641	N84-20729
	11	p1731	N84-21291
	14	p2101	N84-23607
	14	p2114	N84-23668
	14	p2121	N84-23711
	14	p2121	N84-23712
	14	p2129	N84-23765
	14	p2175	N84-24031
	16	p2470	N84-25829
	16	p2535	N84-26276
	19	p2969	N84-28814
	19	p2985	N84-28916
	19	p2997	N84-28991
	19	p3002	N84-29025
	19	p3022	N84-29160
	19	p3110	N84-29758
	20	p3183	N84-30222
	23	p3689	N84-33380
	23	p3690	N84-33384
	23	p3694	N84-33411
	23	p3713	N84-33533
	23	p3713	N84-33535
	23	p3723	N84-33593
	23	p3723	N84-33594
	23	p3812	N84-34172
	23	p3826	N84-34266
	24	p3854	N84-34436
	24	p3878	N84-34574
	24	p3899	N84-34693
	24	p3902	N84-34709
	24	p3968	N84-35124
	24	p3991	N84-35260
NASW-3542	01	p0049	N84-10315
	05	p0643	N84-14228
	05	p0702	N84-14609
	06	p0781	N84-15118
	06	p0782	N84-15119
	06	p0786	N84-15143
	06	p0805	N84-15248
	06	p0809	N84-15270
	06	p0852	N84-15553
	06	p0877	N84-15709
	06	p0920	N84-15980
	06	p0920	N84-15981
	07	p0946	N84-16136
	07	p0960	N84-16220
	07	p0965	N84-16253
	07	p0967	N84-16263
	07	p0973	N84-16308
	07	p0974	N84-16309
	07	p0978	N84-16336
	07	p1001	N84-16490
	07	p1033	N84-16700
	07	p1033	N84-16701
	07	p1033	N84-16702
	07	p1083	N84-17046
	08	p1227	N84-18016
	09	p1286	N84-18398
	09	p1312	N84-18576
	10	p1427	N84-19335
	10	p1434	N84-19378
	10	p1450	N84-19471
	10	p1451	N84-19476
	10	p1454	N84-19494
	10	p1464	N84-19563
	10	p1490	N84-19743
	10	p1528	N84-20012
	10	p1533	N84-20043
	10	p1545	N84-20127
	10	p1578	N84-20340
	11	p1620	N84-20602
	11	p1731	N84-21292
	14	p2119	N84-23699
	14	p2119	N84-23700
	14	p2221	N84-24325
	14	p2222	N84-24330
	14	p2224	N84-24346
	14	p2250	N84-24514
	16	p2504	N84-26068
	16	p2548	N84-26351
	19	p2965	N84-28793
	19	p2968	N84-28808
	19	p2987	N84-28927
	19	p2997	N84-28992
	19	p3012	N84-29095
	19	p3021	N84-29154
	19	p3031	N84-29225
	19	p3035	N84-29250
	19	p3050	N84-29356
	23	p3750	N84-33772
	24	p3852	N84-34432
	24	p3857	N84-34451
	24	p3860	N84-34462
	24	p3866	N84-34502
	24	p3883	N84-34602
	24	p3888	N84-34618
	24	p3900	N84-34694
	24	p3910	N84-34764
	24	p3961	N84-35086
	24	p3965	N84-35106
NASW-3554	02	p0167	N84-11098
NASW-3570	07	p1006	N84-16525
NASW-3606	17	p2713	N84-27272
NASW-3622	09	p1335	N84-18716
	13	p1936	N84-22592
	13	p1936	N84-22593
	13	p1936	N84-22594
	13	p1936	N84-22595
NASW-3680	09	p1266	N84-18265
	09	p1266	N84-18266
	09	p1266	N84-18267
	09	p1266	N84-18268
	09	p1267	N84-18269
	18	p2804	N84-27795
	18	p2804	N84-27796
	18	p2804	N84-27797
	18	p2804	N84-27798
	18	p2804	N84-27799
	18	p2804	N84-27800
	18	p2805	N84-27801
	18	p2805	N84-27802
NASW-3681	09	p1267	N84-18272
	15	p2265	N84-24601
	24	p3859	N84-34460
NASW-3682	09	p1267	N84-18275
	18	p2805	N84-27803
	18	p2805	N84-27804
	18	p2805	N84-27805
	18	p2805	N84-27806
	18	p2805	N84-27807
	18	p2805	N84-27808
	24	p3859	N84-34459
NASW-3683	09	p1267	N84-18274
NASW-3684	09	p1269	N84-18290
	09	p1269	N84-18291
	09	p1269	N84-18292
	09	p1270	N84-18293
	09	p1270	N84-18294
	18	p2806	N84-27811
	18	p2806	N84-27812
	18	p2806	N84-27813
	18	p2806	N84-27814
NASW-3685	09	p1267	N84-18270
	09	p1270	N84-18296
	09	p1270	N84-18297
	09	p1270	N84-18298
	09	p1270	N84-18299
	09	p1270	N84-18300
	09	p1271	N84-18301
	09	p1271	N84-18302
	09	p1271	N84-18303
	09	p1271	N84-18304
	18	p2806	N84-27816
NASW-3686	09	p1267	N84-18273
	15	p2279	N84-24692
NASW-3687	09	p1267	N84-18271
	18	p2803	N84-27788
	18	p2803	N84-27789
	18	p2803	N84-27790
	18	p2803	N84-27791
	18	p2803	N84-27792
	18	p2804	N84-27793
	18	p2804	N84-27794
	18	p2806	N84-27818
NASW-3690	06	p0919	N84-15972
	13	p2010	N84-23039
NASW-3728	10	p1546	N84-20135
	11	p1693	N84-21046
	17	p2743	N84-27416
	17	p2743	N84-27417
NASW-3740	11	p1664	N84-20857
NASW-3741	12	p1776	N84-21586
NASW-3744	11	p1693	N84-21045
NASW-3745	13	p2019	N84-23092
NASW-3748	11	p1621	N84-20610
NASW-3749	18	p2899	N84-28390
NASW-3750	11	p1752	N84-21437
NASW-3751	18	p2807	N84-27819
NASW-3752	08	p1133	N84-17369
	18	p2798	N84-27755
NASW-3753	11	p1731	N84-21290
NASW-3755	11	p1624	N84-20630
NASW-3773	19	p3080	N84-29618
NASW-3775	18	p2798	N84-27756
NASW-3787	13	p2066	N84-23401
NASW-3789	16	p2569	N84-26483
NASW-3791	16	p2572	N84-26509
NASW-3797	13	p2023	N84-23119
NASW-3805	17	p2682	N84-27076
NASW-3826	16	p2462	N84-25776
NASW-3846	23	p3834	N84-34318
NASW-3949	23	p3844	N84-34386
NAS1-11621	01	p0030	N84-10188
	21	p3356	N84-31287
NAS1-13897	21	p3364	N84-31343
NAS1-14101	06	p0895	N84-15811
	11	p1714	N84-21179
NAS1-14279	10	p1452	N84-19479
NAS1-14472	06	p0895	N84-15811
NAS1-14552	23	p3695	N84-33418
NAS1-14568	03	p0320	N84-12091
	08	p1099	N84-17149
NAS1-14583	22	p3533	N84-32367
NAS1-14605	10	p1420	N84-19265
NAS1-14700	19	p2963	N84-28776
NAS1-14742	18	p2796	N84-27744
	19	p2967	N84-28802
	19	p2967	N84-28803
NAS1-14744	18	p2786	N84-27683
	19	p2956	N84-28735
	23	p3693	N84-33403
NAS1-14869	24	p3878	N84-34573
NAS1-14952	18	p2792	N84-27722
NAS1-15000	18	p2920	N84-28515
	18	p2920	N84-28516
	19	p3073	N84-29501
NAS1-15025	19	p2985	N84-28915
NAS1-15069	04	p0491	N84-13223
	18	p2810	N84-27836
NAS1-15084	19	p3020	N84-29150

NAS1-15105 ..... 07 p1002 N84-16495
23 p3746 N84-33749
NAS1-15925 ..... 18 p2786 N84-27685
18 p2792 N84-27720
18 p2792 N84-27723
18 p2796 N84-27744
19 p2963 N84-28777
19 p2963 N84-28778
19 p2967 N84-28802
19 p2967 N84-28803
19 p2967 N84-28804
NAS1-15326 ..... 19 p2967 N84-28805
22 p3537 N84-32395
NAS1-15327 ..... 18 p2792 N84-27721
19 p2955 N84-28727
19 p2957 N84-28742
NAS1-15336 ..... 15 p2395 N84-25366
NAS1-15338 ..... 23 p3778 N84-33956
NAS1-15345 ..... 23 p3695 N84-33416
NAS1-15351 ..... 08 p1096 N84-17130
NAS1-15357 ..... 06 p0781 N84-15115
NAS1-15367 ..... 04 p0532 N84-13501
NAS1-15428 ..... 09 p1371 N84-18953
21 p3463 N84-31955
NAS1-15434 ..... 04 p0486 N84-13195
NAS1-15435 ..... 19 p3069 N84-29465
NAS1-15528 ..... 15 p2385 N84-25307
15 p2386 N84-25308
15 p2386 N84-25309
NAS1-15568 ..... 02 p0193 N84-11253
NAS1-15646 ..... 12 p1780 N84-21610
NAS1-15648 ..... 07 p1036 N84-16721
08 p1107 N84-17195
NAS1-15749 ..... 17 p2618 N84-26754
NAS1-15759 ..... 01 p0012 N84-10078
21 p3344 N84-31217
21 p3344 N84-31218
NAS1-15763 ..... 21 p3382 N84-31462
21 p3382 N84-31463
NAS1-15782 ..... 19 p3099 N84-29687
NAS1-15806 ..... 16 p2552 N84-26373
NAS1-15810 ..... 03 p0425 N84-12778
06 p0838 N84-15462
06 p0895 N84-15811
10 p1568 N84-20275
12 p1871 N84-22193
19 p3021 N84-29159
19 p3074 N84-29503
NAS1-15829 ..... 22 p3657 N84-33181
NAS1-15946 ..... 01 p0118 N84-10765
NAS1-15949 ..... 09 p1329 N84-18679
09 p1330 N84-18681
09 p1330 N84-18682
NAS1-15975 ..... 21 p3365 N84-31346
NAS1-15988 ..... 10 p1491 N84-19747
NAS1-16000 ..... 03 p0388 N84-12528
07 p1068 N84-16935
08 p1097 N84-17136
08 p1211 N84-17899
09 p1385 N84-19048
12 p1897 N84-22353
14 p2104 N84-23621
18 p2785 N84-27678
18 p2792 N84-27719
21 p3464 N84-31959
22 p3538 N84-32397
23 p3724 N84-33596
NAS1-16028 ..... 11 p1600 N84-20481
NAS1-16031 ..... 11 p1600 N84-20482
11 p1602 N84-20491
NAS1-16078 ..... 12 p1871 N84-22195
12 p1872 N84-22199
18 p2917 N84-28494
18 p2917 N84-28495
NAS1-16087 ..... 01 p0022 N84-10138
01 p0026 N84-10163
02 p0184 N84-11197
11 p1622 N84-20616
18 p2802 N84-27786
20 p3134 N84-29901
NAS1-16117 ..... 02 p0287 N84-11884
NAS1-16199 ..... 09 p1254 N84-18183
NAS1-16205 ..... 16 p2438 N84-25641
NAS1-16273 ..... 23 p3693 N84-33402
NAS1-16300 ..... 15 p2259 N84-24567
NAS1-16304 ..... 08 p1104 N84-17178
NAS1-16392 ..... 01 p0139 N84-10912
NAS1-16394 ..... 01 p0128 N84-10837
06 p0895 N84-15811
06 p0908 N84-15896
10 p1568 N84-20273
10 p1568 N84-20275
12 p1871 N84-22193
19 p3021 N84-29159
19 p3082 N84-29562
20 p3126 N84-29852
21 p3470 N84-31993
NAS1-16406 ..... 20 p3146 N84-29978
NAS1-16423 ..... 02 p0193 N84-11258
NAS1-16436 ..... 19 p2968 N84-28807
NAS1-16448 ..... 17 p2617 N84-26752
NAS1-16468 ..... 02 p0222 N84-11459
14 p2175 N84-24029
NAS1-16481 ..... 19 p3074 N84-29502
NAS1-16521 ..... 22 p3652 N84-33147
NAS1-16535 ..... 06 p0834 N84-15425
NAS1-16572 ..... 11 p1651 N84-20781
NAS1-16579 ..... 02 p0176 N84-11156
NAS1-16585 ..... 13 p1926 N84-22537
20 p3126 N84-29854
NAS1-16612 ..... 06 p0782 N84-15123
12 p1766 N84-21516
NAS1-16617 ..... 03 p0322 N84-12110
NAS1-16636 ..... 07 p0958 N84-16212
NAS1-16643 ..... 14 p2096 N84-23577
NAS1-16644 ..... 02 p0174 N84-11144
NAS1-16652 ..... 08 p1231 N84-18047
NAS1-16738 ..... 16 p2448 N84-25701
NAS1-16740 ..... 04 p0479 N84-13153
11 p1600 N84-20479
NAS1-16756 ..... 08 p1114 N84-17248
NAS1-16763 ..... 08 p1161 N84-17558
NAS1-16804 ..... 02 p0187 N84-11218
NAS1-16808 ..... 12 p1789 N84-21668
NAS1-16839 ..... 22 p3540 N84-32410
NAS1-16848 ..... 23 p3696 N84-33422
NAS1-16870 ..... 22 p3597 N84-32784
NAS1-16887 ..... 23 p3692 N84-33396
NAS1-16900 ..... 12 p1876 N84-22227
NAS1-16909 ..... 22 p3581 N84-32677
NAS1-16916 ..... 10 p1420 N84-19285
18 p2836 N84-28002
19 p3021 N84-29159
NAS1-16923 ..... 07 p1015 N84-16586
20 p3200 N84-30328
NAS1-16975 ..... 04 p0486 N84-13194
16 p2448 N84-25702
NAS1-16978 ..... 04 p0574 N84-13781
08 p1227 N84-18017
21 p3491 N84-32120
NAS1-16982 ..... 16 p2539 N84-26298
NAS1-16983 ..... 01 p0120 N84-10779
01 p0120 N84-10780
02 p0271 N84-11773
NAS1-17006 ..... 01 p0100 N84-10648
NAS1-17023 ..... 17 p2604 N84-26685
NAS1-17026 ..... 08 p1097 N84-17131
NAS1-17027 ..... 08 p1096 N84-17129
NAS1-17067 ..... 01 p0119 N84-10769
07 p1053 N84-16821
18 p2795 N84-27734
NAS1-17070 ..... 01 p0076 N84-10499
01 p0077 N84-10501
01 p0127 N84-10831
01 p0128 N84-10836
02 p0280 N84-11832
03 p0417 N84-12727
03 p0420 N84-12742
03 p0424 N84-12777
04 p0515 N84-13380
04 p0531 N84-13492
04 p0548 N84-13609
05 p0627 N84-14123
06 p0895 N84-15811
06 p0908 N84-15897
08 p1095 N84-17118
08 p1095 N84-17119
08 p1170 N84-17621
08 p1211 N84-17899
10 p1419 N84-19282
10 p1420 N84-19285
10 p1420 N84-19286
10 p1556 N84-20195
10 p1568 N84-20274
11 p1712 N84-21165
12 p1876 N84-22226
12 p1893 N84-22327
17 p2667 N84-27004
19 p3021 N84-29158
19 p3021 N84-29159
19 p3082 N84-29557
19 p3082 N84-29559
19 p3082 N84-29560
19 p3095 N84-29655
20 p3135 N84-29903
20 p3277 N84-30800
20 p3279 N84-30816
20 p3279 N84-30817
20 p3280 N84-30818
21 p3469 N84-31988
21 p3470 N84-31993
22 p3530 N84-32349
22 p3633 N84-33024
22 p3637 N84-33053
22 p3637 N84-33059
22 p3645 N84-33108
22 p3645 N84-33112
22 p3645 N84-33113
NAS1-17072 ..... 14 p2101 N84-23606
NAS1-17089 ..... 21 p3443 N84-31847
NAS1-17099 ..... 01 p0120 N84-10778
10 p1419 N84-19284
11 p1728 N84-21276
NAS1-17100 ..... 21 p3357 N84-31290
NAS1-17102 ..... 12 p1771 N84-21553
NAS1-17130 ..... 01 p0003 N84-10022
01 p0127 N84-10831
01 p0128 N84-10837
02 p0280 N84-11832
03 p0420 N84-12742
03 p0424 N84-12777
04 p0531 N84-13493
06 p0895 N84-15811
06 p0908 N84-15896
06 p0908 N84-15897
08 p1095 N84-17118
08 p1095 N84-17119
08 p1211 N84-17899
10 p1556 N84-20195
10 p1568 N84-20273
12 p1876 N84-22226
19 p3021 N84-29159
19 p3082 N84-29558
19 p3082 N84-29560
19 p3082 N84-29562
20 p3126 N84-29852
20 p3135 N84-29903
20 p3277 N84-30800
20 p3280 N84-30818
21 p3469 N84-31988
21 p3470 N84-31993
22 p3530 N84-32349
22 p3633 N84-33024
22 p3637 N84-33059
22 p3645 N84-33111
NAS1-17138 ..... 07 p0952 N84-16177
NAS1-17152 ..... 13 p1939 N84-22608
NAS1-17175 ..... 19 p3082 N84-29557
NAS1-17176 ..... 14 p2104 N84-23623
NAS1-17231 ..... 20 p3290 N84-30886
NAS1-17244 ..... 19 p2958 N84-28748
NAS1-17261 ..... 22 p3645 N84-33113
NAS1-17403 ..... 11 p1618 N84-20587
13 p1934 N84-22583
NAS1-17428 ..... 20 p3132 N84-29888
NAS1-17555 ..... 12 p1890 N84-22304
12 p1890 N84-22305
12 p1890 N84-22306
NAS1-17570 ..... 21 p3490 N84-32119
NAS1-17573 ..... 19 p3020 N84-29152
NAS1-17578 ..... 16 p2464 N84-25794
NAS1-17584 ..... 19 p2982 N84-28899
NAS1-23782 ..... 07 p0991 N84-16426
NAS2-3682 ..... 18 p2805 N84-27809
NAS2-3743 ..... 11 p1620 N84-20604
NAS2-5472 ..... 03 p0473 N84-13111
NAS2-6553 ..... 06 p1245 N84-18136
NAS2-8788 ..... 03 p0323 N84-12112
NAS2-9104 ..... 10 p1419 N84-19281
NAS2-9482 ..... 06 p0919 N84-15972
NAS2-9646 ..... 16 p2437 N84-25631
NAS2-9830 ..... 18 p2788 N84-27697
18 p2788 N84-27698
19 p2957 N84-28741
23 p3690 N84-33388
NAS2-10016 ..... 17 p2666 N84-27002
17 p2667 N84-27003
17 p2757 N84-27503
NAS2-10060 ..... 11 p1603 N84-20501
17 p2603 N84-26679
NAS2-10064 ..... 18 p2817 N84-27888
NAS2-10184 ..... 16 p2437 N84-25631
NAS2-10288 ..... 16 p2451 N84-25716
NAS2-10330 ..... 11 p1614 N84-20564
NAS2-10626 ..... 19 p2968 N84-28806
NAS2-10676 ..... 23 p3814 N84-34187
NAS2-10740 ..... 24 p3902 N84-34708
NAS2-10762 ..... 11 p1600 N84-20478
NAS2-10859 ..... 14 p2096 N84-23577
NAS2-10961 ..... 08 p1205 N84-17855
NAS2-11000 ..... 18 p2788 N84-27693
NAS2-11001 ..... 19 p2961 N84-28767
NAS2-11002 ..... 19 p2956 N84-28738
NAS2-11003 ..... 19 p2956 N84-28737
NAS2-11052 ..... 06 p0784 N84-15135
NAS2-11059 ..... 23 p3723 N84-33592
NAS2-11080 ..... 12 p1765 N84-21511
14 p2096 N84-23577

	24	p3652	N84-34428
	24	p3652	N84-34429
	24	p3652	N84-34430
NAS2-11087	08	p1205	N84-17856
NAS2-11101	12	p1828	N84-21915
NAS2-11125	22	p3539	N84-32406
NAS2-11129	08	p1205	N84-17857
NAS2-11151	09	p1256	N84-18196
NAS2-11156	17	p2600	N84-26662
	17	p2600	N84-26663
NAS2-11161	16	p2437	N84-25631
NAS2-11167	01	p0004	N84-10024
NAS2-11260	23	p3689	N84-33378
NAS2-11271	24	p3652	N84-34431
NAS2-11276	16	p2445	N84-25684
NAS2-11277	06	p0781	N84-15114
NAS2-11285	04	p0480	N84-13158
	04	p0480	N84-13159
NAS2-11294	21	p3356	N84-31285
NAS2-11339	10	p1425	N84-19317
NAS2-11346	10	p1525	N84-19988
NAS2-11351	23	p3723	N84-33591
NAS2-11504	08	p1216	N84-17936
NAS2-11523	10	p1552	N84-20174
NAS2-11555	12	p1879	N84-22243
	21	p3464	N84-31962
NAS2-11646	10	p1501	N84-19813
NAS2-11739	17	p2671	N84-27025
NAS3-403	14	p2145	N84-23854
NAS3-2271	08	p1156	N84-17530
NAS3-20072	22	p3554	N84-32504
NAS3-20073	06	p0805	N84-15247
NAS3-20605	23	p3695	N84-33417
NAS3-20643	02	p0179	N84-11170
NAS3-20646	18	p2795	N84-27737
	18	p2795	N84-27738
	18	p2796	N84-27739
	19	p2965	N84-28788
	19	p2965	N84-28789
	22	p3536	N84-32389
NAS3-20662	05	p0630	N84-14143
NAS3-21249	02	p0175	N84-11152
	17	p2733	N84-27375
NAS3-21726	11	p1744	N84-21376
NAS3-22003	06	p0789	N84-15151
NAS3-22045	01	p0052	N84-10332
NAS3-22063	06	p0812	N84-15283
NAS3-22110	17	p2609	N84-26702
NAS3-22137	19	p3096	N84-29661
NAS3-22224	07	p1079	N84-17014
NAS3-22232	19	p3047	N84-29326
NAS3-22245	06	p0873	N84-15682
NAS3-22247	09	p1306	N84-18536
NAS3-22249	13	p1985	N84-22689
NAS3-22336	15	p2327	N84-24973
NAS3-22343	21	p3383	N84-31464
NAS3-22367	01	p0042	N84-10268
NAS3-22442	17	p2711	N84-27258
NAS3-22474	01	p0029	N84-10180
NAS3-22491	23	p3741	N84-33715
NAS3-22492	02	p0212	N84-11385
NAS3-22494	04	p0517	N84-13398
NAS3-22503	08	p1149	N84-17477
NAS3-22504	07	p0997	N84-16463
NAS3-22507	16	p2450	N84-25711
NAS3-22514	22	p3652	N84-33148
	22	p3652	N84-33149
	22	p3652	N84-33150
NAS3-22517	02	p0189	N84-11229
NAS3-22519	02	p0189	N84-11228
NAS3-22523	11	p1636	N84-20695
NAS3-22533	02	p0231	N84-11514
	02	p0231	N84-11515
	05	p0631	N84-14148
	06	p0790	N84-15153
	06	p0790	N84-15154
	19	p3035	N84-29252
NAS3-22536	08	p1117	N84-17268
NAS3-22548	03	p0355	N84-12312
	07	p0978	N84-16337
NAS3-22656	13	p2006	N84-23021
NAS3-22750	12	p1822	N84-21879
NAS3-22753	03	p0388	N84-12530
NAS3-22758	05	p0679	N84-14462
NAS3-22779	14	p2106	N84-23629
NAS3-22780	18	p2820	N84-27908
NAS3-22782	02	p0212	N84-11388
NAS3-22783	04	p0508	N84-13332
NAS3-22813	15	p2343	N84-25065
NAS3-22824	11	p1625	N84-20634
	11	p1636	N84-20699
NAS3-22827	14	p2109	N84-23646
	16	p2473	N84-25854
NAS3-22828	04	p0505	N84-13310
NAS3-22877	09	p1319	N84-18620
NAS3-23043	04	p0485	N84-13186
NAS3-23044	16	p2433	N84-25605
NAS3-23052	05	p0699	N84-14585
NAS3-23054	22	p3603	N84-32828
NAS3-23154	07	p1007	N84-16529
NAS3-23157	07	p0958	N84-16210
NAS3-23159	08	p1149	N84-17481
NAS3-23163	13	p1932	N84-22568
NAS3-23166	14	p2220	N84-24323
	14	p2220	N84-24324
NAS3-23167	08	p1139	N84-17407
NAS3-23171	19	p2983	N84-28901
NAS3-23244	01	p0061	N84-10402
	01	p0061	N84-10403
	01	p0061	N84-10404
NAS3-23245	07	p0985	N84-16381
NAS3-23248	03	p0343	N84-12226
	04	p0490	N84-13218
NAS3-23250	07	p0991	N84-16423
	07	p0991	N84-16424
NAS3-23254	01	p0017	N84-10109
NAS3-23273	01	p0094	N84-10613
	01	p0094	N84-10614
NAS3-23274	19	p2998	N84-28995
NAS3-23279	21	p3420	N84-31689
NAS3-23280	04	p0524	N84-13443
NAS3-23281	04	p0486	N84-13193
NAS3-23283	10	p1431	N84-19353
NAS3-23286	11	p1728	N84-21275
NAS3-23289	04	p0498	N84-13265
NAS3-23293	07	p0963	N84-16243
	09	p1313	N84-18578
	10	p1471	N84-19606
	10	p1490	N84-19741
	14	p2141	N84-23841
NAS3-23343	10	p1450	N84-19472
NAS3-23344	03	p0343	N84-12225
NAS3-23348	05	p0666	N84-14376
	05	p0666	N84-14377
	05	p0666	N84-14378
NAS3-23352	22	p3543	N84-32428
	22	p3543	N84-32429
NAS3-23353	20	p3139	N84-29931
NAS3-23356	11	p1642	N84-20737
NAS3-23523	03	p0348	N84-12263
	03	p0348	N84-12265
NAS3-23525	06	p0790	N84-15152
	06	p0790	N84-15155
	06	p0790	N84-15156
NAS3-23529	22	p3598	N84-32790
NAS3-23531	16	p2450	N84-25710
NAS3-23537	24	p3855	N84-34444
NAS3-23538	11	p1608	N84-20528
NAS3-23542	12	p1790	N84-21677
NAS3-23606	04	p0588	N84-13885
NAS3-23684	21	p3405	N84-31595
NAS3-23686	11	p1609	N84-20536
NAS3-23696	22	p3531	N84-32355
NAS3-23697	21	p3421	N84-31700
NAS3-23705	15	p2261	N84-24580
NAS3-23774	14	p2114	N84-23667
NAS3-23779	03	p0343	N84-12227
NAS3-23783	11	p1621	N84-20611
	11	p1621	N84-20612
NAS3-23868	23	p3701	N84-33462
NAS3-23923	07	p0991	N84-16425
NAS3-23926	15	p2295	N84-24774
NAS3-24094	11	p1609	N84-20531
NAS3-34964	23	p3756	N84-33811
NAS4-2651	18	p2813	N84-27860
NAS4-2769	08	p1103	N84-17173
	08	p1103	N84-17174
NAS4-2932	04	p0487	N84-13197
NAS4-2940	05	p0633	N84-14158
NAS4-2955	11	p1605	N84-20512
NAS4-3005	11	p1614	N84-20565
NAS5-26	16	p2529	N84-26234
NAS5-175	07	p1088	N84-17077
NAS5-2062	06	p0919	N84-15972
NAS5-2677	18	p2841	N84-28034
NAS5-11437	06	p0878	N84-15711
NAS5-17377	12	p1829	N84-21924
NAS5-17664	07	p1022	N84-16626
NAS5-20062	03	p0474	N84-13117
NAS5-20094	01	p0104	N84-10678
NAS5-20682	06	p0910	N84-15909
	06	p0919	N84-15972
NAS5-22947	17	p2778	N84-27637
NAS5-22965	22	p3622	N84-32948
NAS5-23740	09	p1344	N84-18782
NAS5-23777	02	p0236	N84-11547
NAS5-23864	11	p1662	N84-20841
NAS5-24151	02	p0305	N84-11999
NAS5-24350	05	p0697	N84-14573
	16	p2574	N84-26519
NAS5-24420	01	p0104	N84-10677
	01	p0165	N84-11088
	17	p2781	N84-27655
NAS5-24455	05	p0638	N84-14195
	16	p2522	N84-26190
	16	p2522	N84-26192
NAS5-24486	18	p2954	N84-28721
NAS5-25030	06	p0877	N84-15708
NAS5-25172	06	p0820	N84-15345
NAS5-25543	06	p0794	N84-15173
NAS5-25690	08	p1119	N84-17276
NAS5-25693	17	p2727	N84-27358
NAS5-25753	09	p1262	N84-18237
NAS5-25792	06	p0916	N84-15957
NAS5-25897	08	p1186	N84-17725
NAS5-25968	10	p1484	N84-19705
NAS5-25977	06	p0864	N84-15627
NAS5-25980	11	p1760	N84-21486
	16	p2580	N84-26550
NAS5-26086	10	p1533	N84-20042
NAS5-26200	22	p3600	N84-32802
NAS5-26240	18	p2832	N84-27980
NAS5-26249	06	p0872	N84-15673
NAS5-26257	01	p0104	N84-10679
	17	p2728	N84-27362
NAS5-26287	13	p2005	N84-23008
NAS5-26326	15	p2355	N84-25128
NAS5-26350	22	p3592	N84-32750
NAS5-26363	17	p2727	N84-27358
NAS5-26365	02	p0213	N84-11390
NAS5-26425	13	p2005	N84-23005
NAS5-26446	07	p1022	N84-16629
	07	p1022	N84-16630
NAS5-26453	02	p0235	N84-11546
NAS5-26468	11	p1749	N84-21418
NAS5-26533	01	p0099	N84-10645
NAS5-26540	10	p1524	N84-19986
NAS5-26548	10	p1433	N84-19368
	10	p1433	N84-19369
	10	p1433	N84-19370
	10	p1434	N84-19371
	10	p1434	N84-19372
	10	p1434	N84-19373
	10	p1434	N84-19374
	10	p1434	N84-19375
	10	p1434	N84-19376
NAS5-26555	09	p1409	N84-19206
	18	p2840	N84-28029
	18	p2840	N84-28032
	18	p2841	N84-28037
NAS5-26650	10	p1549	N84-20154
NAS5-26658	08	p1142	N84-17432
NAS5-26686	22	p3598	N84-32785
NAS5-26689	02	p0209	N84-11361
NAS5-26714	12	p1860	N84-22116
NAS5-26725	08	p1149	N84-17480
NAS5-26727	18	p2832	N84-27976
NAS5-26739	03	p0473	N84-13112
NAS5-26753	06	p0934	N84-16071
	06	p0934	N84-16073
	06	p0935	N84-16074
NAS5-26768	10	p1531	N84-20028
NAS5-26772	22	p3575	N84-32646
	22	p3576	N84-32647
	22	p3576	N84-32648
	22	p3576	N84-32649
NAS5-26802	02	p0239	N84-11569
NAS5-26819	03	p0432	N84-12832
	07	p1034	N84-16707
	17	p2728	N84-27362
NAS5-26859	04	p0551	N84-13629
	16	p2506	N84-26082
	17	p2709	N84-27250
	22	p3613	N84-32893
	23	p3766	N84-33871
NAS5-26890	10	p1520	N84-19954
NAS5-26896	10	p1454	N84-19493
NAS5-26962	08	p1108	N84-17203
	11	p1620	N84-20605
NAS5-27197	18	p2923	N84-28535
NAS5-27254	02	p0236	N84-11551
NAS5-27269	22	p3656	N84-33178
NAS5-27274	16	p2575	N84-26529
NAS5-27285	09	p1306	N84-18537
NAS5-27297	12	p1860	N84-22115
NAS5-27323	02	p0235	N84-11543
	02	p0236	N84-11550
	05	p0697	N84-14574
	13	p2005	N84-23009
	21	p3427	N84-31737
NAS5-27338	02	p0277	N84-11817
NAS5-27343	06	p0852	N84-15555
NAS5-27346	07	p1020	N84-16615
	15	p2357	N84-25140
NAS5-27371	10	p1521	N84-19957
NAS5-27377	02	p0238	N84-11561
	16	p2506	N84-26085
NAS5-27382	04	p0552	N84-13637

	04	p0552	N84-13838
	06	p0865	N84-15633
	11	p1671	N84-20905
	13	p2004	N84-23000
	16	p2506	N84-26084
NAS5-27383	16	p2506	N84-26086
NAS5-27384	02	p0235	N84-11544
	19	p3038	N84-29275
NAS5-27393	04	p0551	N84-13630
	06	p0934	N84-16072
	07	p1036	N84-16720
NAS5-27425	18	p2844	N84-28059
NAS5-27463	02	p0235	N84-11545
	07	p1021	N84-16621
	13	p2003	N84-22997
	19	p3039	N84-29277
NAS5-27466	10	p1439	N84-19394
NAS5-27510	15	p2319	N84-24920
NAS5-27513	02	p0230	N84-11508
NAS5-27554	21	p3426	N84-31735
NAS5-27577	02	p0236	N84-11549
	16	p2508	N84-26097
NAS5-27580	02	p0237	N84-11555
	10	p1522	N84-19964
	14	p2167	N84-23978
	17	p2709	N84-27251
NAS5-27595	06	p0864	N84-15626
	10	p1522	N84-19965
NAS5-27597	15	p2279	N84-24691
	18	p2878	N84-28275
NAS5-27613	15	p2388	N84-25325
NAS5-27617	10	p1592	N84-20435
NAS5-27641	18	p2828	N84-27955
	18	p2844	N84-28058
NAS5-27654	10	p1529	N84-20015
NAS5-27664	07	p1022	N84-16627
NAS5-27728	13	p2026	N84-23134
NAS5-27752	03	p0470	N84-13097
NAS5-27888	19	p3039	N84-29276
	22	p3539	N84-32404
	22	p3539	N84-32405
NAS5-28063	16	p2581	N84-26552
	16	p2581	N84-26553
	21	p3464	N84-31960
	21	p3464	N84-31961
NAS7-100	01	p0102	N84-10660
	03	p0330	N84-12151
	03	p0352	N84-12289
	03	p0378	N84-12463
	03	p0403	N84-12635
	03	p0451	N84-12968
	03	p0467	N84-13078
	03	p0470	N84-13097
	03	p0471	N84-13101
	03	p0472	N84-13107
	03	p0474	N84-13123
	04	p0517	N84-13397
	05	p0724	N84-14749
	06	p0849	N84-15536
	06	p0849	N84-15537
	06	p0867	N84-15648
	07	p0961	N84-16227
	07	p0987	N84-16390
	07	p0992	N84-16428
	07	p0992	N84-16429
	07	p1033	N84-16703
	07	p1040	N84-16744
	07	p1070	N84-16949
	07	p1091	N84-17096
	07	p1091	N84-17097
	07	p1091	N84-17098
	07	p1091	N84-17099
	08	p1136	N84-17388
	09	p1260	N84-18226
	09	p1260	N84-18230
	10	p1512	N84-19898
	11	p1673	N84-20917
	12	p1779	N84-21609
	12	p1863	N84-22138
	12	p1879	N84-22245
	12	p1901	N84-22380
	12	p1912	N84-22459
	13	p1993	N84-22935
	13	p2004	N84-23004
	13	p2006	N84-23012
	15	p2305	N84-24830
	15	p2339	N84-25037
	15	p2361	N84-25164
	15	p2385	N84-25306
	16	p2533	N84-26262
	21	p3409	N84-31619
	22	p3558	N84-32530
	22	p3572	N84-32620
	22	p3616	N84-32910
	22	p3616	N84-32911
	22	p3616	N84-32912
	22	p3656	N84-33179
	22	p3662	N84-33211
	23	p3736	N84-33675
	23	p3775	N84-33935
	23	p3786	N84-34012
	23	p3788	N84-34024
NAS7-100-956205	24	p3884	N84-34609
NAS7-100-956679	24	p3884	N84-34610
NAS7-918	01	p0099	N84-10644
	03	p0471	N84-13099
	03	p0471	N84-13100
	06	p0793	N84-15168
	06	p0820	N84-15348
	06	p0821	N84-15354
	07	p1007	N84-16528
	07	p1025	N84-16640
	07	p1025	N84-16642
	07	p1025	N84-16643
	07	p1025	N84-16644
	07	p1026	N84-16645
	07	p1027	N84-16656
	07	p1033	N84-16704
	07	p1047	N84-16791
	07	p1070	N84-16948
	09	p1356	N84-18863
	11	p1624	N84-20632
	12	p1812	N84-21810
	12	p1828	N84-21918
	12	p1834	N84-21955
	12	p1841	N84-22001
	12	p1841	N84-22003
	12	p1841	N84-22006
	12	p1842	N84-22007
	13	p1941	N84-22620
	14	p2225	N84-24351
	17	p2712	N84-27269
	17	p2720	N84-27315
	18	p2791	N84-27714
	18	p2801	N84-27779
	18	p2828	N84-27956
	18	p2833	N84-27981
	18	p2833	N84-27982
	18	p2836	N84-28003
	18	p2845	N84-28067
	18	p2868	N84-28207
	18	p2868	N84-28210
	18	p2869	N84-28211
	18	p2869	N84-28212
	18	p2870	N84-28217
	18	p2870	N84-28218
	18	p2870	N84-28220
	18	p2871	N84-28223
	18	p2871	N84-28224
	18	p2877	N84-28267
	18	p2883	N84-28296
	18	p2892	N84-28355
	18	p2915	N84-28485
	18	p2929	N84-28576
	18	p2935	N84-28614
	18	p2947	N84-28682
	19	p2978	N84-28882
	20	p3136	N84-29910
	22	p3546	N84-32448
	22	p3616	N84-32915
	22	p3617	N84-32917
	22	p3617	N84-32918
	22	p3617	N84-32920
	22	p3618	N84-32922
	22	p3662	N84-33213
	22	p3673	N84-33285
	22	p3675	N84-33299
	23	p3736	N84-33671
	23	p3786	N84-34013
NAS8-3281	10	p1491	N84-19748
NAS8-27976	17	p2781	N84-27658
NAS8-30490	03	p0355	N84-12311
NAS8-31170	21	p3405	N84-31598
NAS8-31718	15	p2370	N84-25217
NAS8-31908	15	p2428	N84-25584
NAS8-31958	06	p0877	N84-15706
NAS8-31986	19	p3011	N84-29087
NAS8-31993	21	p3352	N84-31263
	21	p3352	N84-31264
	21	p3352	N84-31265
NAS8-32350	01	p0018	N84-10114
NAS8-32667	23	p3698	N84-33434
NAS8-32712	01	p0027	N84-10171
	06	p0794	N84-15171
	09	p1260	N84-18225
NAS8-32807	05	p0638	N84-14195
	15	p2367	N84-25204
	16	p2522	N84-26191
NAS8-32815	12	p1867	N84-22168
NAS8-32981	20	p3234	N84-30529
NAS8-32989	04	p0488	N84-13208
NAS8-33074	12	p1814	N84-21827
NAS8-33076	13	p1938	N84-22602
NAS8-33096	19	p3073	N84-29499
NAS8-33219	02	p0308	N84-12021
NAS8-33272	06	p0938	N84-16097
NAS8-33370	23	p3800	N84-34090
NAS8-33379	13	p2039	N84-23234
NAS8-33385	18	p2832	N84-27978
	18	p2832	N84-27979
NAS8-33448	19	p3012	N84-29089
	19	p3012	N84-29090
	19	p3012	N84-29091
	19	p3012	N84-29094
NAS8-33513	22	p3592	N84-32749
NAS8-33570	21	p3464	N84-31958
NAS8-33573	14	p2127	N84-23752
NAS8-33575	06	p0885	N84-15755
NAS8-33578	02	p0244	N84-11595
NAS8-33592	14	p2114	N84-23670
	14	p2115	N84-23671
NAS8-33698	20	p3152	N84-30015
NAS8-33716	03	p0383	N84-12495
	11	p1624	N84-20631
	24	p3910	N84-34765
NAS8-33776	04	p0567	N84-13736
NAS8-33799	21	p3446	N84-31866
NAS8-33825	08	p1102	N84-17167
	15	p2369	N84-25334
	15	p2389	N84-25335
	21	p3465	N84-31966
NAS8-33881	08	p1155	N84-17522
NAS8-33884	19	p3057	N84-29397
NAS8-33957	19	p3011	N84-29088
NAS8-33971	05	p0842	N84-14223
NAS8-33978	06	p0809	N84-15267
NAS8-33979	10	p1438	N84-19392
	11	p1623	N84-20625
	16	p2548	N84-26352
NAS8-33980	06	p0847	N84-15521
	06	p0847	N84-15522
NAS8-33982	08	p1117	N84-17262
	08	p1119	N84-17276
	15	p2368	N84-25205
	19	p3053	N84-29374
	23	p3827	N84-34275
NAS8-34010	11	p1731	N84-21293
NAS8-34131	03	p0403	N84-12634
NAS8-34214	19	p3047	N84-29333
NAS8-34263	08	p1102	N84-17166
NAS8-34268	02	p0190	N84-11231
NAS8-34333	15	p2371	N84-25222
NAS8-34381	01	p0089	N84-10582
	01	p0089	N84-10583
	01	p0090	N84-10584
NAS8-34383	15	p2412	N84-25481
NAS8-34426	09	p1372	N84-18960
NAS8-34502	06	p0904	N84-15866
	10	p1573	N84-20304
NAS8-34503	09	p1256	N84-18201
	09	p1366	N84-18918
NAS8-34504	06	p0834	N84-15428
NAS8-34505	10	p1438	N84-19389
NAS8-34529	23	p3750	N84-33773
NAS8-34535	11	p1652	N84-20783
NAS8-34573	03	p0466	N84-13066
NAS8-34592	13	p1968	N84-22908
NAS8-34622	09	p1348	N84-18805
	19	p3057	N84-29398
NAS8-34627	04	p0566	N84-13730
NAS8-34644	19	p3012	N84-29092
NAS8-34651	01	p0029	N84-10182
NAS8-34656	23	p3698	N84-33433
NAS8-34657	24	p3858	N84-34457
NAS8-34677	01	p0028	N84-10175
	01	p0028	N84-10176
NAS8-34679	08	p1115	N84-17249
	21	p3404	N84-31594
NAS8-34686	15	p2340	N84-25046
NAS8-34744	06	p0881	N84-15732
NAS8-34746	08	p1169	N84-17615
	08	p1170	N84-17622
NAS8-34747	08	p1107	N84-17196
NAS8-34750	03	p0371	N84-12415
NAS8-34751	21	p3446	N84-31863
NAS8-34758	19	p2997	N84-28993
NAS8-34767	06	p0881	N84-15729
	24	p3921	N84-34815
NAS8-34769	21	p3405	N84-31596
	22	p3597	N84-32780
	22	p3597	N84-32781
	23	p3702	N84-33463
NAS8-34773	21	p3398	N84-31552
NAS8-34891	18	p2936	N84-28622
NAS8-34893	13	p1940	N84-22613
	13	p1940	N84-22614
	14	p2115	N84-23672
	14	p2115	N84-23673

	14	p2115	N84-23674
	19	p2981	N84-28891
NAS8-34901	06	p0793	N84-15165
NAS8-34904	21	p3523	N84-32317
NAS8-34906	22	p3643	N84-33097
NAS8-34908	10	p1502	N84-19815
	13	p1997	N84-22960
	23	p3756	N84-33810
NAS8-34920	04	p0488	N84-13207
NAS8-34938	08	p1180	N84-17686
NAS8-34941	04	p0566	N84-13732
NAS8-34942	04	p0566	N84-13731
NAS8-34943	06	p0917	N84-15959
NAS8-34945	01	p0028	N84-10174
NAS8-34947	22	p3624	N84-32965
NAS8-34960	11	p1656	N84-20805
NAS8-34969	09	p1364	N84-18909
NAS8-34972	24	p3932	N84-34889
NAS8-34973	08	p1121	N84-17267
NAS8-34975	19	p3021	N84-29153
NAS8-34977	19	p3001	N84-29018
NAS8-34978	11	p1625	N84-20635
	11	p1625	N84-20636
	11	p1625	N84-20637
	11	p1625	N84-20638
NAS8-35015	21	p3405	N84-31599
NAS8-35016	12	p1779	N84-21606
NAS8-35017	01	p0029	N84-10181
	15	p2281	N84-24699
	16	p2457	N84-25752
NAS8-35023	15	p2335	N84-25018
NAS8-35036	08	p1115	N84-17251
NAS8-35039	10	p1434	N84-19377
NAS8-35043	13	p1939	N84-22607
NAS8-35046	03	p0346	N84-12248
NAS8-35050	10	p1501	N84-19814
NAS8-35051	21	p3354	N84-31273
NAS8-35053	19	p2983	N84-28900
NAS8-35108	07	p1079	N84-17017
NAS8-35145	23	p3718	N84-33566
NAS8-35180	21	p3430	N84-31763
NAS8-35184	21	p3460	N84-31944
	22	p3633	N84-33022
NAS8-35185	06	p1163	N84-17574
NAS8-35324	03	p0341	N84-12213
NAS8-35326	19	p3020	N84-29147
	19	p3021	N84-29156
NAS8-35329	11	p1705	N84-21117
NAS8-35339	01	p0028	N84-10177
	08	p1117	N84-17262
NAS8-35342	21	p3352	N84-31266
NAS8-35416	13	p1963	N84-22752
NAS8-35473	23	p3698	N84-33432
NAS8-35481	03	p0371	N84-12413
NAS8-35496	21	p3351	N84-31258
NAS8-35498	19	p2980	N84-28887
NAS8-35507	22	p3608	N84-32862
NAS8-35508	21	p3398	N84-31553
NAS8-35594	21	p3382	N84-31459
	21	p3442	N84-31835
	21	p3442	N84-31836
	21	p3442	N84-31837
NAS8-35599	19	p3034	N84-29244
NAS8-35617	21	p3346	N84-31225
NAS8-35670	20	p3134	N84-29902
NAS8-35767	07	p0965	N84-16251
NAS8-35817	20	p3152	N84-30013
	21	p3366	N84-31350
	23	p3717	N84-33565
NAS8-35822	19	p3026	N84-29194
NAS8-35823	19	p3012	N84-29093
NAS8-35912	15	p2286	N84-24716
NAS8-35914	23	p3838	N84-34351
NAS8-35916	21	p3498	N84-32168
NAS8-35983	21	p3504	N84-32202
NAS9-11539	11	p1758	N84-21476
	11	p1758	N84-21477
NAS9-12932	08	p1199	N84-17820
NAS9-13247	01	p0026	N84-10166
NAS9-13624	10	p1553	N84-20177
NAS9-14523	08	p1199	N84-17820
NAS9-14776	11	p1623	N84-20622
	11	p1623	N84-20623
	11	p1623	N84-20624
NAS9-14907	08	p1155	N84-17523
NAS9-15452	16	p2495	N84-26008
NAS9-15487	08	p1199	N84-17820
NAS9-15800	01	p0100	N84-10647
	09	p1366	N84-18919
	10	p1521	N84-19961
	11	p1622	N84-20617
	12	p1777	N84-21597
	12	p1829	N84-21926
	22	p3541	N84-32414
	22	p3541	N84-32416
NAS9-15840	22	p3576	N84-32650
NAS9-15958	02	p0202	N84-11318
	02	p0202	N84-11319
	02	p0205	N84-11335
NAS9-16067	06	p0794	N84-15174
	06	p0794	N84-15175
	06	p0794	N84-15176
	06	p0794	N84-15177
NAS9-16121	02	p0183	N84-11188
	02	p0183	N84-11189
NAS9-16135	07	p0988	N84-16399
NAS9-16151	04	p0557	N84-13671
	13	p2009	N84-23028
NAS9-16153	12	p1777	N84-21592
	12	p1777	N84-21593
	12	p1777	N84-21594
	12	p1777	N84-21595
	12	p1777	N84-21596
NAS9-16281	22	p3585	N84-32707
NAS9-16283	01	p0026	N84-10166
	13	p1938	N84-22603
	21	p3351	N84-31259
	21	p3351	N84-31260
	22	p3541	N84-32415
	24	p3860	N84-34464
NAS9-16328	08	p1199	N84-17820
	08	p1200	N84-17821
NAS9-16433	09	p1360	N84-18886
NAS9-16438	10	p1520	N84-19953
NAS9-16442	16	p2535	N84-26275
NAS9-16443	08	p1114	N84-17244
	08	p1114	N84-17245
	08	p1114	N84-17246
NAS9-16457	12	p1829	N84-21927
NAS9-16467	07	p0988	N84-16399
NAS9-16468	05	p0644	N84-14233
NAS9-16473	07	p0991	N84-16421
NAS9-16491	17	p2777	N84-27630
NAS9-16497	08	p1143	N84-17435
NAS9-16528	12	p1829	N84-21925
	17	p2709	N84-27252
	17	p2710	N84-27253
	17	p2710	N84-27254
NAS9-16538	16	p2508	N84-26098
NAS9-16582	08	p1157	N84-17531
NAS9-16596	19	p3121	N84-29841
NAS9-16604	19	p3063	N84-29433
NAS9-16657	22	p3559	N84-32535
NAS9-16664	03	p0392	N84-12557
	03	p0394	N84-12573
	03	p0394	N84-12574
NAS9-16675	09	p1317	N84-18607
NAS9-16723	22	p3633	N84-33023
NAS9,16744	13	p1937	N84-22598
NAS9-16785	16	p2509	N84-26099
NAS9-16810	03	p0417	N84-12725
NAS9-16814	08	p1161	N84-17556
NAS9-16822	17	p2710	N84-27255
NAS9-16850	08	p1161	N84-17559
NAS9-16854	11	p1622	N84-20618
	11	p1622	N84-20619
NAS9-16868	08	p1142	N84-17431
NAS9-16923	11	p1656	N84-20806
NAS9-17200	20	p3259	N84-30684
	21	p3457	N84-31935
NAS9-95519	08	p1143	N84-17434
NAS10-10438	14	p2113	N84-23664
NAS10-10541	13	p1965	N84-22768
NA79AA-D-0010	21	p3433	N84-31780
NA79AA-D-00102	03	p0402	N84-12632
NA79RA-C-00051	05	p0637	N84-14193
NA79RA-C-00104	09	p1351	N84-18825
NA79SA-C-00737	09	p1350	N84-18823
	09	p1350	N84-18824
NA79SA-C-00740	05	p0709	N84-14648
NA80AA-D-00035	17	p2735	N84-27383
NA80AA-D-00056	05	p0710	N84-14653
NA80AA-D-00077	03	p0402	N84-12632
NA80RA-D-00085	23	p3775	N84-33930
NA80SA-C-00830	08	p1192	N84-17768
NA80SA-M-00653	09	p1335	N84-18715
NA81AA-D-00027	10	p1538	N84-20075
NA81AA-D-00069	08	p1196	N84-17801
	11	p1692	N84-21037
NA81RA-C-00077	17	p2778	N84-27637
NA81RA-D-00034	10	p1541	N84-20102
NA81RA-G-00254	05	p0700	N84-14596
NA81SA-C-00728	01	p0060	N84-10393
NA82SA-C-00083	12	p1837	N84-21976
NA82SA-C-00761	14	p2181	N84-24063
NA83AA-A-02632	15	p2338	N84-25034
NA83AA-D-0016	22	p3626	N84-32979
NA83SA-C-00106	14	p2181	N84-24065
NBS PROJ. 5610454	10	p1467	N84-19581
NBS-DA-3010	05	p0664	N84-14362
NBS-G7-9011	04	p0513	N84-13369
NBS-G8-9022	17	p2723	N84-27333
NBS-NB-805180	08	p1127	N84-17327
NB80-SBCA-0450	06	p0896	N84-15820
NB81-NADA-2026	08	p1101	N84-17162
NB82-NADA-3033	20	p3172	N84-30140
NB82-SBCA-1505	11	p1747	N84-21398
	21	p3516	N84-32271
NB82SB-C-A1654	17	p2750	N84-27456
NCA2-IR562-401	16	p2541	N84-26312
NCA2-OR340-301	19	p3020	N84-29148
NCA2-OR840-202	21	p3357	N84-31291
NCB-226072	05	p0688	N84-14524
NCC-2-102	09	p1358	N84-18876
NCC-292	18	p2788	N84-27695
NCCI-6	19	p3099	N84-29685
NCCI-8	08	p1163	N84-17575
NCCI-62	07	p0967	N84-16265
NCC1-6	07	p1069	N84-16942
NCC1-11	19	p3063	N84-29432
NCC1-15	13	p2000	N84-22975
	14	p2157	N84-23921
	19	p2986	N84-28919
NCC1-28	12	p1918	N84-22495
	18	p2877	N84-28266
NCC1-32	19	p3073	N84-29498
NCC1-36	12	p1871	N84-22193
NCC1-39	08	p1182	N84-17697
NCC1-40	24	p3912	N84-34773
NCC1-42	07	p1071	N84-16954
	11	p1760	N84-21485
NCC1-55	19	p2987	N84-28928
NCC1-64	04	p0489	N84-13212
NCC1-65	09	p1252	N84-18171
	20	p3125	N84-29851
NCC1-68	07	p1060	N84-16870
NCC1-69	08	p1106	N84-17189
NCC2-15	08	p1156	N84-17526
NCC2-28	21	p3355	N84-31284
NCC2-60	11	p1628	N84-20654
NCC2-64	08	p1156	N84-17527
NCC2-71	16	p2471	N84-25840
	17	p2617	N84-26750
NCC2-82	08	p1155	N84-17519
NCC2-89	22	p3538	N84-32399
NCC2-92	12	p1769	N84-21538
NCC2-103	21	p3356	N84-31289
NCC2-125	21	p3419	N84-31682
NCC2-133	07	p0947	N84-16147
NCC2-148	22	p3554	N84-32502
NCC2-169	18	p2844	N84-28057
NCC2-171	21	p3503	N84-32201
NCC2-228	08	p1205	N84-17859
NCC2-232	21	p3457	N84-31936
NCC2-233	23	p3810	N84-34160
NCC2-234	22	p3613	N84-32892
NCC2-235	08	p1205	N84-17858
NCC3-3	16	p2486	N84-25943
NCC3-7	01	p0102	N84-10661
NCC3-17	23	p3790	N84-34037
NCC3-21	21	p3365	N84-31349
NCC3-28	12	p1797	N84-21720
NCC5-13	11	p1677	N84-20946
NCC5-21	06	p0877	N84-15708
NCC5-22	10	p1522	N84-19963
NCC5-24	15	p2338	N84-25036
NCC5-600	16	p2481	N84-25907
NCC9-4	01	p0099	N84-10643
NCC9-6	04	p0552	N84-13635
NCC9-9	09	p1372	N84-18958
	10	p1521	N84-19958
NCR-25-001-55	07	p1061	N84-16876
NE-5061-015	03	p0412	N84-12696
	18	p2876	N84-28262
NE-5061-016	03	p0412	N84-12696
	09	p1387	N84-19057
	18	p2876	N84-28262
NERC-MSS-82	03	p0398	N84-12602
NGL-05-002-034	09	p1415	N84-19260
	10	p1597	N84-20464
NGL-05-002-105	04	p0562	N84-13704
	07	p1028	N84-16664
	08	p1155	N84-17521
	09	p1287	N84-18401
	16	p2495	N84-26011
NGL-05-007-190	06	p0910	N84-15909
NGL-05-020-008	05	p0634	N84-14173
NGL-05-020-243	23	p3760	N84-33835
NGL-05-020-272	04	p0621	N84-14098
NGL-06-003-057	24	p3970	N84-35139
NGL-09-015-150	11	p1758	N84-21478
NGL-12-001-011	09	p1417	N84-19272
	17	p2779	N84-27644
NGL-12-001-057	12	p1922	N84-22523
	17	p2774	N84-27614
	17	p2777	N84-27631
NGL-14-001-001	03	p0466	N84-13069
NGL-14-005-1817	08	p1185	N84-17721

NGL-16-001-002	01	p0104	N84-10678
	01	p0104	N84-10679
	07	p1034	N84-16707
NGL-16-001-043	07	p1034	N84-16707
	16	p2525	N84-26215
	16	p2558	N84-26413
	17	p2728	N84-27362
	24	p3919	N84-34812
NGL-21-002-033	15	p2428	N84-25583
NGL-22-009-124	02	p0278	N84-11822
	07	p1057	N84-16848
	07	p1058	N84-16854
	08	p1223	N84-17988
	09	p1377	N84-18997
	15	p2399	N84-25393
	20	p3278	N84-30808
	24	p3948	N84-35001
NGL-23-004-083	04	p0553	N84-13641
	12	p1828	N84-21917
	14	p2167	N84-23977
NGL-24-005-263	02	p0237	N84-11558
NGL-25-001-054	14	p2168	N84-23986
NGL-31-001-252	02	p0169	N84-11110
NGL-33-018-003	03	p0347	N84-12257
	08	p1122	N84-17293
NGL-50-002-044	08	p1156	N84-17529
	16	p2577	N84-26535
	16	p2582	N84-26558
NGR-05-002-016	03	p0471	N84-13100
NGR-05-002-160	03	p0464	N84-13056
	03	p0465	N84-13064
	03	p0471	N84-13099
	23	p3845	N84-34392
NGR-05-003-511	13	p2070	N84-23411
NGR-05-005-055	13	p2070	N84-23413
	13	p2070	N84-23414
NGR-05-020-559	01	p0104	N84-10677
	01	p0165	N84-11086
	17	p2781	N84-27655
NGR-05-020-668	16	p2582	N84-26557
	17	p2781	N84-27656
NGR-06-002-112	10	p1450	N84-19467
	10	p1450	N84-19468
	21	p3354	N84-31274
	21	p3354	N84-31275
NGR-06-003-176	08	p1242	N84-18119
NGR-09-015-002	07	p0962	N84-16233
	14	p2112	N84-23661
NGR-09-015-002-SUPPL-93	07	p1009	N84-16543
NGR-09-015-145	02	p0308	N84-12018
NGR-09-050-019	15	p2366	N84-25195
NGR-12-001-011	03	p0468	N84-13082
NGR-17-003-021	19	p2956	N84-28736
NGR-21-001-001	07	p1088	N84-17075
NGR-21-001-111	09	p1363	N84-18902
	19	p3067	N84-29457
NGR-21-002-199	14	p2252	N84-24522
	15	p2428	N84-25583
NGR-21-002-316	24	p3994	N84-35281
NGR-24-005-050	17	p2781	N84-27658
NGR-26-008-001	17	p2781	N84-27658
NGR-28-002-021	21	p3492	N84-32130
NGR-33-016-201	19	p2956	N84-28734
	22	p3531	N84-32356
NGR-36-009-017	08	p1102	N84-17168
	11	p1604	N84-20504
	11	p1604	N84-20506
NGR-39-007-011	08	p1169	N84-17617
	08	p1169	N84-17618
	08	p1170	N84-17619
	10	p1516	N84-19926
	10	p1516	N84-19928
	11	p1668	N84-20879
	22	p3609	N84-32863
NGR-39-010-149	09	p1356	N84-18864
NGR-39-030-010	09	p1356	N84-18864
NGR-44-012-152	19	p3121	N84-29842
NGR-47-003-052	11	p1602	N84-20492
	21	p3507	N84-32220
NGR-005-002-160	17	p2781	N84-27658
NGT-01-005-021	06	p0927	N84-16022
NGT-22-009-901	08	p1156	N84-17526
NGT-34-003-801	14	p2251	N84-24519
NGT-47-003-800	16	p2537	N84-26291
NGT-47-020-800	21	p3507	N84-32221
NGT-47-020-801	08	p1163	N84-17575
NIH-GM-13557	04	p0572	N84-13765
NIH-HL-14985	06	p0887	N84-15766
	06	p0887	N84-15768
NIH-RR-00886	04	p0572	N84-13765
NIVR-1722	20	p3164	N84-30097
NIVR-1743	15	p2296	N84-24782
	23	p3720	N84-33583
NIVR-1745	09	p1258	N84-18212
NIVR-1773	09	p1387	N84-19059
NIVR-1776	09	p1335	N84-18713
NIVR-1777	09	p1335	N84-18713
NIVR-1822	09	p1335	N84-18713
NIVR-1823	09	p1335	N84-18713
NIVR-1833	15	p2332	N84-25004
	17	p2689	N84-27021
	21	p3403	N84-31592
NIVR-1853	17	p2601	N84-26673
NIVR-1855	12	p1827	N84-21909
NIVR-1865	17	p2601	N84-26672
NIVR-1866	17	p2601	N84-26674
NIVR-1869	15	p2297	N84-24783
NIVR-1870	12	p1885	N84-22287
	18	p2922	N84-28529
NIVR-1896	20	p3292	N84-30898
NIVR-1903	15	p2349	N84-25101
NIVR-1906	15	p2296	N84-24781
NIVR-1943	12	p1769	N84-21541
NIVR-1945	12	p1767	N84-21523
NIVR-1950	15	p2260	N84-24572
NIVR-1987	20	p3275	N84-30791
NIVR-1997	17	p2616	N84-26742
NIVR-1998	17	p2616	N84-26742
NMI-P/352029	18	p2851	N84-28104
NMI-P/352045	18	p2851	N84-28105
NOAA-NA82-RA-D-00001	11	p1691	N84-21027
NOAA-03-78-BO1-60	05	p0637	N84-14193
NOO24-C-5384	09	p1261	N84-18235
NOSC PROJ. F59551	03	p0410	N84-12685
NR PROJ. F57-526	10	p1433	N84-19367
NR PROJ. F58-524	10	p1547	N84-20144
NR PROJ. F58-528	10	p1552	N84-20170
NR PROJ. RR0-4204	11	p1713	N84-21173
NR PROJ. RR0-4209	10	p1547	N84-20142
NR PROJ. S13-07	10	p1486	N84-19716
NR PROJ. X06-99	10	p1425	N84-19318
NR PROJ. X07-92	10	p1480	N84-19668
NR PROJ. Z02-208	10	p1466	N84-19576
NR PROJ. Z08-38	10	p1469	N84-19597
	10	p1469	N84-19598
NR PROJ. 031-689	08	p1132	N84-17365
	08	p1133	N84-17366
NR PROJ. 031-858	10	p1460	N84-19532
NR PROJ. 036-097	10	p1459	N84-19527
	10	p1459	N84-19528
NR PROJ. 036-106	04	p0498	N84-13269
NR PROJ. 036-163	04	p0589	N84-13895
NR PROJ. 039-202	01	p0050	N84-10321
NR PROJ. 041-519	09	p1382	N84-19027
NR PROJ. 042-267	01	p0136	N84-10893
	11	p1717	N84-21201
NR PROJ. 042-343	10	p1592	N84-20436
NR PROJ. 042-407	09	p1377	N84-18994
	09	p1383	N84-19032
NR PROJ. 042-467	03	p0428	N84-12807
	06	p0901	N84-15848
NR PROJ. 042-470	05	p0734	N84-14820
NR PROJ. 042-479	01	p0132	N84-10867
	01	p0136	N84-10889
NR PROJ. 043-343	01	p0133	N84-10871
NR PROJ. 047-033	06	p0933	N84-16065
NR PROJ. 047-143	11	p1719	N84-21211
	12	p1897	N84-22355
NR PROJ. 047-200	10	p1573	N84-20310
NR PROJ. 047-607	03	p0425	N84-12784
	10	p1591	N84-20427
NR PROJ. 047-624	21	p3515	N84-32267
NR PROJ. 048-647	02	p0277	N84-11813
NR PROJ. 048-667	04	p0589	N84-13892
NR PROJ. 049-189	04	p0589	N84-13891
NR PROJ. 049-345	01	p0121	N84-10786
NR PROJ. 049-383	06	p0825	N84-15379
	10	p1481	N84-19675
NR PROJ. 049-456	04	p0580	N84-13823
NR PROJ. 049-459	09	p1399	N84-19138
NR PROJ. 049-500	01	p0123	N84-10799
	01	p0133	N84-10868
NR PROJ. 051-539	01	p0037	N84-10231
	01	p0049	N84-10318
NR PROJ. 051-579	01	p0071	N84-10466
	01	p0152	N84-11003
	10	p1455	N84-19501
NR PROJ. 051-622	09	p1391	N84-19085
	12	p1909	N84-22440
NR PROJ. 051-679	18	p2810	N84-27839
NR PROJ. 051-690	05	p0647	N84-14253
NR PROJ. 051-733	21	p3359	N84-31305
NR PROJ. 051-736	05	p0752	N84-14933
NR PROJ. 051-818	21	p3504	N84-32207
NR PROJ. 053-714	05	p0659	N84-14329
NR PROJ. 056-498	01	p0142	N84-10931
NR PROJ. 056-578	17	p2767	N84-27572
NR PROJ. 056-681	05	p0647	N84-14254
	05	p0647	N84-14255
	05	p0647	N84-14256
NR PROJ. 056-703	06	p0915	N84-15951
NR PROJ. 056-749	07	p1072	N84-16962
	08	p1164	N84-17581
	09	p1322	N84-18641
NR PROJ. 056-6731	10	p1588	N84-20410
NR PROJ. 064-410	03	p0389	N84-12536
	03	p0425	N84-12786
NR PROJ. 064-436	09	p1332	N84-18698
NR PROJ. 064-478	01	p0095	N84-10618
NR PROJ. 064-609	01	p0095	N84-10617
NR PROJ. 064-670	09	p1331	N84-18693
NR PROJ. 083-102	01	p0111	N84-10721
NR PROJ. 083-231	03	p0410	N84-12681
NR PROJ. 083-275	10	p1543	N84-20109
NR PROJ. 083-556	01	p0111	N84-10719
NR PROJ. 092-545	08	p1124	N84-17309
NR PROJ. 092-549	03	p0432	N84-12833
	03	p0433	N84-12836
	06	p0915	N84-15949
	12	p1901	N84-22381
NR PROJ. 092-558	24	p3886	N84-34622
NR PROJ. 093-064	10	p1465	N84-19571
NR PROJ. 093-069	23	p3822	N84-34237
NR PROJ. 097-452	01	p0078	N84-10509
NR PROJ. 097-457	06	p0926	N84-16017
NR PROJ. 150-467	02	p0280	N84-11834
NR PROJ. 150-474	11	p1713	N84-21173
NR PROJ. 154-445	15	p2383	N84-25290
NR PROJ. 156-564	11	p1637	N84-20705
NR PROJ. 157-465	05	p0726	N84-14781
NR PROJ. 170-910	09	p1363	N84-18902
NR PROJ. 170-927	10	p1569	N84-20282
NR PROJ. 196-158	05	p0715	N84-14685
	10	p1554	N84-20182
	10	p1554	N84-20183
NR PROJ. 196-159	09	p1363	N84-18903
	18	p2929	N84-28571
NR PROJ. 196-165	06	p0894	N84-15809
NR PROJ. 196-168	05	p0716	N84-14693
NR PROJ. 197-058	01	p0117	N84-10759
	01	p0137	N84-10896
NR PROJ. 197-066	12	p1866	N84-22163
NR PROJ. 197-074	01	p0116	N84-10755
NR PROJ. 201-207	05	p0684	N84-14494
	05	p0712	N84-14667
NR PROJ. 201-484	21	p3457	N84-31938
NR PROJ. 205-046	01	p0044	N84-10283
NR PROJ. 229-046	08	p1171	N84-17628
NR PROJ. 319-116	11	p1744	N84-21383
NR PROJ. 356-554	08	p1138	N84-17399
NR PROJ. 356-577	08	p1137	N84-17396
NR PROJ. 356-646	05	p0659	N84-14334
NR PROJ. 356-655	05	p0659	N84-14330
	21	p3370	N84-31384
NR PROJ. 356-691	10	p1466	N84-19573
NR PROJ. 356-739	01	p0037	N84-10234
NR PROJ. 359-638	10	p1529	N84-20018
NR PROJ. 359-650	06	p0829	N84-15397
NR PROJ. 359-718	10	p1455	N84-19499
	10	p1468	N84-19585
NR PROJ. 359-746	08	p1124	N84-17305
NR PROJ. 372-012	11	p1744	N84-21383
NR PROJ. 372-121(427)	23	p3830	N84-34295
NR PROJ. 384-836	07	p1070	N84-16950
NR PROJ. 387-133	01	p0111	N84-10719
NR PROJ. 393-071	24	p3962	N84-35091
NR PROJ. 394-055	04	p0589	N84-13894
NR PROJ. 395-609	09	p1320	N84-18624
	09	p1320	N84-18626
	09	p1321	N84-18628
	09	p1321	N84-18629
	09	p1321	N84-18630
	09	p1394	N84-19105
NR PROJ. 627-793	07	p0970	N84-16284
	07	p0979	N84-16342
	22	p3546	N84-32450
	22	p3546	N84-32451
	22	p3559	N84-32538
	22	p3662	N84-33215
NR PROJ. 627-802	08	p1124	N84-17307
NR PROJ. 627-838	06	p0801	N84-15224
NR PROJ. 633-844	01	p0086	N84-10563
	05	p0684	N84-14496
	05	p0686	N84-14510
	09	p1396	N84-19116
NR PROJ. 634-742	08	p1132	N84-17360
NR PROJ. 657-694	04	p0533	N84-13507
NR PROJ. 657-728	11	p1652	N84-20788
	11	p1653	N84-20789
NR PROJ. 659-795	23	p3724	N84-33600
NR PROJ. 659-797	03	p0357	N84-12325
NR PROJ. 659-798	03	p0357	N84-12325
NR PROJ. 667-437	01	p0117	N84-10757
	09	p1364	N84-18907
NR PROJ. 871-1	10	p1552	N84-20168
NRC-A-7400	23	p3777	N84-33945
NRL PROJ. 212-22	08	p1151	N84-17493
NRL-44-1422-0-1	03	p0370	N84-12411

NSF APR-75-08154	06	p0901	N84-15849
NSF AST-78-17292	18	p2841	N84-28040
NSF AST-79-00894	18	p2841	N84-28034
NSF AST-79-16870	19	p3120	N84-29826
NSF AST-80-11445	18	p2841	N84-28034
NSF AST-80-19874	03	p0469	N84-13087
	09	p1407	N84-19195
NSF AST-81-21099	18	p2841	N84-28034
NSF AST-81-21463	09	p1412	N84-19236
NSF AST-81-21863	17	p2778	N84-27640
NSF AST-83-02843	14	p2252	N84-24525
NSF AST-83-03119	15	p2336	N84-25034
NSF ATM-76-22200	01	p0110	N84-10712
NSF ATM-76-83361	21	p3450	N84-31896
NSF ATM-77-20580	01	p0165	N84-11086
	17	p2781	N84-27655
NSF ATM-77-24420	01	p0104	N84-10677
NSF ATM-77-28187	12	p1847	N84-22042
	14	p2175	N84-24032
NSF ATM-78-08865	01	p0108	N84-10704
	07	p1039	N84-16741
NSF ATM-78-23658	01	p0106	N84-10689
NSF ATM-79-18379	17	p2696	N84-27174
NSF ATM-79-18761	01	p0110	N84-10712
NSF ATM-79-24010	21	p3447	N84-31873
NSF ATM-79-24687	11	p1690	N84-21019
NSF ATM-80-00060	17	p2685	N84-27094
	17	p2689	N84-27123
	17	p2691	N84-27137
	17	p2694	N84-27159
	17	p2694	N84-27161
	17	p2695	N84-27163
NSF ATM-80-12908	23	p3775	N84-33930
NSF ATM-80-19563	08	p1185	N84-17721
	17	p2686	N84-27100
NSF ATM-80-22550	05	p0638	N84-14196
NSF ATM-81-1753	03	p0469	N84-13092
NSF ATM-81-03089	14	p2252	N84-24522
NSF ATM-81-03809	15	p2428	N84-25583
NSF ATM-81-07027	20	p3248	N84-30620
NSF ATM-81-08381	17	p2688	N84-27117
NSF ATM-81-13078	17	p2682	N84-27079
NSF ATM-81-14427	05	p0636	N84-14184
NSF ATM-81-15257	18	p2932	N84-28595
NSF ATM-81-17275	17	p2689	N84-27122
NSF ATM-81-17355	17	p2778	N84-27638
NSF ATM-81-17440	08	p1185	N84-17721
NSF ATM-81-19302	03	p0475	N84-13124
NSF ATM-81-19563	17	p2687	N84-27108
NSF ATM-81-20371	08	p1185	N84-17721
	17	p2684	N84-27090
	17	p2685	N84-27098
	17	p2686	N84-27103
	17	p2687	N84-27113
	17	p2693	N84-27153
	17	p2695	N84-27165
	17	p2695	N84-27166
NSF ATM-81-20455	03	p0469	N84-13089
NSF ATM-81-21723	03	p0408	N84-12671
	24	p3933	N84-34897
NSF ATM-82-02440	24	p3933	N84-34897
NSF ATM-82-04041	08	p1185	N84-17721
NSF ATM-82-08677	02	p0256	N84-11677
NSF ATM-82-08931	06	p0870	N84-15664
NSF ATM-82-09603	03	p0469	N84-13090
NSF ATM-82-10343	21	p3445	N84-31857
NSF ATM-82-10691	16	p2573	N84-26513
	16	p2573	N84-26514
	16	p2573	N84-26515
NSF ATM-82-11002	09	p1415	N84-19260
	10	p1597	N84-20464
NSF ATM-82-12791	04	p0565	N84-13722
NSF ATM-82-14730	09	p1393	N84-19093
	14	p2229	N84-24367
NSF ATM-82-18125	08	p1246	N84-18142
	16	p2582	N84-26559
NSF ATM-83-00426	08	p1119	N84-17276
NSF ATM-83-03172	08	p1246	N84-18142
NSF BNS-81-11470	09	p1298	N84-18488
NSF C-760	14	p2181	N84-24064
NSF CEE-78-05124	01	p0059	N84-10387
	01	p0059	N84-10388
NSF CEE-79-26392	01	p0060	N84-10391
NSF CEE-80-02583	01	p0058	N84-10382
	01	p0059	N84-10383
NSF CEE-80-10691	10	p1511	N84-19889
NSF CEE-80-23003	22	p3615	N84-32905
NSF CEE-80-26767	14	p2159	N84-23933
NSF CEE-81-05790	04	p0505	N84-13308
	04	p0516	N84-13391
	04	p0550	N84-13623
	05	p0694	N84-14556
	20	p3171	N84-30137
NSF CEE-81-07217	09	p1297	N84-18480
	20	p3171	N84-30136
	20	p3203	N84-30343
	20	p3205	N84-30358
NSF CEE-81-09100	21	p3445	N84-31860
NSF CEE-81-10050	20	p3205	N84-30357
NSF CEE-81-18214	15	p2302	N84-24819
NSF CEE-81-19696	08	p1189	N84-17747
NSF CEE-81-19962	16	p2478	N84-25867
NSF CEE-82-08208	09	p1297	N84-18482
NSF CEE-82-13851	20	p3204	N84-30356
NSF CEE-82-14070	20	p3204	N84-30354
NSF CEE-82-19358	20	p3243	N84-30590
	21	p3451	N84-31901
NSF CEP-81-03635	20	p3310	N84-31021
NSF CHE-78-00637	05	p0674	N84-14427
NSF CHE-80-25282	05	p0651	N84-14277
NSF CHE-82-18765	20	p3296	N84-30930
NSF CME-79-18057	08	p1173	N84-17639
NSF CME-79-18170	10	p1561	N84-20226
NSF CME-79-19817	03	p0325	N84-12122
NSF CME-79-21993	12	p1863	N84-22139
NSF CME-80-06797	08	p1160	N84-17554
NSF CME-80-17860	09	p1312	N84-18571
NSF CPE-80-23182	08	p1127	N84-17330
NSF CPE-81-15163	01	p0009	N84-10054
	04	p0485	N84-13189
NSF CPE-83-01523	20	p3159	N84-30062
NSF DAR-78-16320	12	p1830	N84-21928
NSF DAR-78-261622	02	p0301	N84-11978
NSF DAR-79-18530	17	p2675	N84-27044
NSF DAR-79-22248	11	p1641	N84-20731
NSF DAR-80-23130	10	p1473	N84-19618
NSF DEB-81-15316	06	p0882	N84-15739
NSF DEB-82-07117	08	p1218	N84-17946
NSF DMR-78-22462	18	p2936	N84-28620
NSF DMR-79-04155	01	p0153	N84-11006
	01	p0153	N84-11007
NSF DMR-79-11137	11	p1744	N84-21378
NSF DMR-79-21210	03	p0354	N84-12302
NSF DMR-79-23647	11	p1739	N84-21345
	11	p1743	N84-21370
	11	p1743	N84-21371
	21	p3370	N84-31382
NSF DMR-79-235702	17	p2769	N84-27580
NSF DMR-80-06966	19	p3007	N84-29064
NSF DMR-80-20249	11	p1744	N84-21378
NSF DMR-80-20429	15	p2410	N84-25464
NSF DMR-81-04985	18	p2940	N84-28645
NSF DMR-81-19295	10	p1466	N84-19573
NSF DMR-82-16972	04	p0590	N84-13897
	04	p0612	N84-14041
	19	p2995	N84-28980
NSF DMR-82-60638	13	p1943	N84-22633
NSF DMR-83-08052	18	p2936	N84-28621
NSF DMS-83-15316	19	p3088	N84-29604
NSF DMS-84-01511	24	p3952	N84-35030
NSF DPP-80-06922	07	p1041	N84-16747
	08	p1187	N84-17736
NSF DPP-80-09304	11	p1691	N84-21032
NSF DPP-80-22282	05	p0634	N84-14173
NSF DPP-80-22540	05	p0634	N84-14173
NSF DPP-81-7265	22	p3614	N84-32896
NSF DPP-81-00153	11	p1691	N84-21032
NSF DPP-81-20024	08	p1187	N84-17736
NSF DPP-82-07009	09	p1336	N84-18722
NSF DPP-82-07098	01	p0101	N84-10656
NSF EAR-78-03654	08	p1185	N84-17723
NSF EAR-78-12942	09	p1287	N84-18401
NSF EAR-81-09591	01	p0046	N84-10299
	02	p0195	N84-11268
NSF EAR-81-15236	02	p0248	N84-11622
	07	p1040	N84-16745
	08	p1185	N84-17723
	08	p1186	N84-17728
	16	p2521	N84-26182
NSF EAR-81-16026	16	p2495	N84-26011
NSF ECF-81-16138	07	p1066	N84-16923
NSF ECS-78-21062	01	p0049	N84-10317
NSF ECS-78-25182	11	p1719	N84-21211
NSF ECS-79-18667	01	p0135	N84-10885
	01	p0135	N84-10886
NSF ECS-79-19880	10	p1481	N84-19675
NSF ECS-79-23893	06	p0893	N84-15804
NSF ECS-79-25404	15	p2393	N84-25364
NSF ECS-80-03558	11	p1663	N84-20854
NSF ECS-80-06590	09	p1380	N84-19016
NSF ECS-80-07102	06	p0908	N84-15901
NSF ECS-80-12974	01	p0124	N84-10808
	01	p0135	N84-10883
	02	p0274	N84-11792
	02	p0283	N84-11854
	03	p0421	N84-12751
	03	p0421	N84-12752
	05	p0717	N84-14694
	11	p1709	N84-21140
	11	p1719	N84-21211
	12	p1897	N84-22355
NSF ECS-80-16580	09	p1402	N84-19160
NSF ECS-80-16581	09	p1402	N84-19162
NSF ECS-80-17867	09	p1379	N84-19013
	09	p1384	N84-19040
NSF ECS-80-22033	07	p1067	N84-16931
NSF ECS-81-2070	03	p0418	N84-12732
NSF ECS-81-02895	09	p1379	N84-19014
	09	p1380	N84-19015
NSF ECS-81-04646	23	p3815	N84-34190
	23	p3818	N84-34207
NSF ECS-81-05978	16	p2550	N84-26364
NSF ECS-81-05984	13	p1981	N84-22863
NSF ECS-81-14571	05	p0738	N84-14846
NSF ECS-81-17483	14	p2236	N84-24417
NSF ECS-81-19886	09	p1346	N84-18793
NSF ECS-82-01370	12	p1881	N84-22264
	12	p1882	N84-22265
NSF ECS-82-03276	14	p2195	N84-24165
NSF ECS-82-05425	06	p0902	N84-15852
	10	p1591	N84-20427
	11	p1706	N84-21120
	11	p1706	N84-21121
NSF ECS-82-06495	20	p3278	N84-30808
NSF ECS-82-10673	13	p1981	N84-22863
NSF ECS-82-10960	07	p1057	N84-16848
	15	p2399	N84-25393
	20	p3278	N84-30808
	24	p3948	N84-35001
NSF ECS-82-11476	16	p2550	N84-26364
NSF ECS-82-14081	19	p3075	N84-29513
	19	p3083	N84-29567
	24	p3951	N84-35015
NSF ECS-82-15465	14	p2204	N84-24228
	14	p2204	N84-24229
NSF ECS-82-17631	20	p3280	N84-30822
NSF ECS-82-17668	09	p1382	N84-19027
	13	p2029	N84-23154
NSF ECS-83-106	24	p3895	N84-34664
NSF ECS-83-02087	23	p3778	N84-33957
NSF ENG-77-22756	08	p1160	N84-17554
NSF ENG-78-15231	01	p0137	N84-10901
NSF ENG-79-02506	06	p0902	N84-15852
NSF ENG-79-08351	01	p0092	N84-10600
NSF ENG-79-08778	01	p0135	N84-10887
NSF ENG-79-18667	01	p0135	N84-10884
NSF ESC-81-02894	02	p0207	N84-11353
NSF INT-83-02757	20	p3237	N84-30552
NSF ISI-81-05585	05	p0758	N84-14971
	05	p0758	N84-14972
NSF ISP-79-16510	14	p2248	N84-24501
NSF ISP-80-19579	08	p1241	N84-18112
NSF ISP-80-19800	03	p0458	N84-13016
NSF IST-80-12419	05	p0732	N84-14807
NSF IST-80-25761	16	p2567	N84-26473
NSF IST-81-20254	05	p0732	N84-14808
NSF IST-82-10564	02	p0277	N84-11818
NSF MCS-77-02082	01	p0131	N84-10859
NSF MCS-78-00763	03	p0420	N84-12742
NSF MCS-78-05299	01	p0131	N84-10857
NSF MCS-78-07410	10	p1567	N84-20266
NSF MCS-78-22328	12	p1891	N84-22317
NSF MCS-78-25301	01	p0129	N84-10840
NSF MCS-79-01689	14	p2195	N84-24169
NSF MCS-79-03555	21	p3398	N84-31559
NSF MCS-79-03716	01	p0129	N84-10840
NSF MCS-79-04081	15	p2386	N84-25308
NSF MCS-79-09139	01	p0133	N84-10871
NSF MCS-79-09495	01	p0123	N84-10801
	09	p1365	N84-18914
NSF MCS-79-15171	17	p2669	N84-27022
NSF MCS-79-18792	15	p2392	N84-25355
	15	p2392	N84-25356
	19	p3074	N84-29505
NSF MCS-79-21258	12	p1878	N84-22239
NSF MCS-79-23110	02	p0265	N84-11746
	06	p0891	N84-15792
NSF MCS-79-23769	19	p3078	N84-29529
NSF MCS-79-26009	01	p0124	N84-10808
	01	p0135	N84-10883
	02	p0274	N84-11792
	02	p0283	N84-11854
	03	p0421	N84-12751
	03	p0421	N84-12752
	05	p0717	N84-14694
	11	p1709	N84-21140
	11	p1719	N84-21211
	12	p1897	N84-22355
NSF MCS-79-27062	01	p0078	N84-10506
	01	p0128	N84-10839
	01	p0129	N84-10840
	01	p0130	N84-10851
	01	p0130	N84-10854
	01	p0131	N84-10861
	05	p0650	N84-14273
	05	p0655	N84-14304
	05	p0735	N84-14829
	05	p0738	N84-14845

	05	p0740	N84-14864
	07	p1002	N84-16499
	07	p1062	N84-16887
	09	p1373	N84-18967
	09	p1374	N84-18975
	14	p2201	N84-24209
	19	p3023	N84-29172
	21	p3400	N84-31568
NSF MCS-79-277062	07	p1002	N84-16500
NSF MCS-80-00213	01	p0137	N84-10896
NSF MCS-80-01944	05	p0737	N84-14842
NSF MCS-80-01960	01	p0130	N84-10852
	01	p0132	N84-10863
	14	p2145	N84-23858
	14	p2197	N84-24178
	19	p3024	N84-29176
	24	p3953	N84-35031
NSF MCS-80-02856	16	p2533	N84-26260
NSF MCS-80-02946	11	p1718	N84-21209
	12	p1893	N84-22332
NSF MCS-80-06930	01	p0123	N84-10801
NSF MCS-80-06938	17	p2758	N84-27508
NSF MCS-80-12907	04	p0579	N84-13820
NSF MCS-80-21704	18	p2851	N84-28103
NSF MCS-80-24649	09	p1374	N84-18974
NSF MCS-81-01661	19	p3085	N84-29583
NSF MCS-81-02380	05	p0736	N84-14835
	05	p0737	N84-14842
	19	p3087	N84-29594
NSF MCS-81-02684	16	p2567	N84-26473
NSF MCS-81-04008	04	p0579	N84-13820
NSF MCS-81-04874	09	p1369	N84-18941
NSF MCS-81-05896	22	p3641	N84-33087
NSF MCS-81-06181	14	p2211	N84-24278
	17	p2749	N84-27451
	19	p3088	N84-29602
NSF MCS-81-10556	05	p0740	N84-14863
	11	p1716	N84-21190
NSF MCS-81-11586	09	p1365	N84-18914
NSF MCS-81-16678	22	p3640	N84-33077
NSF MCS-81-19774	02	p0274	N84-11792
	05	p0717	N84-14694
	11	p1719	N84-21211
	12	p1897	N84-22355
NSF MCS-81-19848	05	p0727	N84-14775
	09	p1369	N84-18939
NSF MCS-81-20839	04	p0531	N84-13492
NSF MCS-81-21750	12	p1873	N84-22204
NSF MCS-81-21838	01	p0135	N84-10883
	02	p0283	N84-11854
	11	p1719	N84-21211
NSF MCS-81-21940	01	p0136	N84-10894
NSF MCS-82-00632	07	p1063	N84-16898
	11	p1715	N84-21188
	19	p3087	N84-29594
NSF MCS-82-00788	01	p0128	N84-10836
	09	p1372	N84-18959
	10	p1420	N84-19286
NSF MCS-82-00883	10	p1568	N84-20273
NSF MCS-82-01539	21	p3398	N84-31559
NSF MCS-82-01768	19	p3089	N84-29613
NSF MCS-82-02056	04	p0496	N84-13255
NSF MCS-82-02259	03	p0425	N84-12782
NSF MCS-82-02943	01	p0121	N84-10785
	01	p0123	N84-10799
	01	p0133	N84-10868
	03	p0420	N84-12745
	24	p3946	N84-34988
	24	p3951	N84-35016
NSF MCS-82-03405	08	p1209	N84-17888
NSF MCS-82-03485	11	p1647	N84-20769
NSF MCS-82-03486	19	p3078	N84-29529
NSF MCS-82-03692	12	p1873	N84-22204
NSF MCS-82-05166	02	p0278	N84-11824
NSF MCS-82-05335	08	p1218	N84-17945
	08	p1218	N84-17946
NSF MCS-82-05355	01	p0134	N84-10877
	06	p0901	N84-15846
	08	p1219	N84-17958
	09	p1378	N84-18999
	19	p3082	N84-29562
	19	p3089	N84-29613
	22	p3646	N84-33117
NSF MCS-82-07496	10	p1565	N84-20251
	23	p3817	N84-34200
NSF MCS-82-07965	14	p2197	N84-24184
NSF MCS-82-10822	09	p1381	N84-19021
NSF MCS-82-10830	15	p2398	N84-25388
NSF MCS-82-10950	09	p1373	N84-18966
	09	p1374	N84-18970
	09	p1375	N84-18980
	14	p2130	N84-23767
	14	p2214	N84-24296
	14	p2218	N84-24309
	19	p3023	N84-29172
	19	p3084	N84-29576
	19	p3085	N84-29584
	19	p3087	N84-29595
	19	p3087	N84-29599
	21	p3471	N84-32001
	21	p3472	N84-32002
	21	p3472	N84-32003
	21	p3472	N84-32004
	21	p3472	N84-32007
	21	p3473	N84-32009
	21	p3473	N84-32010
NSF MCS-82-15064	05	p0650	N84-14275
	07	p1002	N84-16500
	19	p3023	N84-29172
	19	p3087	N84-29595
	21	p3400	N84-31568
	24	p3901	N84-34704
NSF MCS-82-17445	20	p3281	N84-30825
NSF MCS-83-00293	12	p1893	N84-22331
NSF MCS-83-00984	19	p3077	N84-29524
NSF MCS-83-02038	08	p1212	N84-17908
NSF MCS-83-02391	22	p3640	N84-33077
NSF MCS-83-03242	10	p1573	N84-20309
NSF MCS-83-06854	22	p3640	N84-33077
NSF MCS-83-09926	19	p3088	N84-29607
NSF MCS-83-10542	21	p3476	N84-32032
NSF MEA-79-11255	09	p1395	N84-19107
NSF MEA-79-17999	17	p2639	N84-26685
NSF MEA-80-16565	09	p1313	N84-18583
NSF MEA-81-09250	19	p2986	N84-28919
NSF MEA-81-11917	21	p3415	N84-31656
NSF MEA-81-14378	09	p1326	N84-18664
NSF MEA-81-20311	09	p1277	N84-18336
NSF MEA-82-07140	10	p1464	N84-19562
NSF MEA-82-09083	08	p1169	N84-17617
	08	p1169	N84-17618
	10	p1516	N84-19926
	11	p1668	N84-20879
NSF MEA-82-11424	23	p3815	N84-34190
	23	p3818	N84-34207
NSF MEA-82-16463	11	p1648	N84-20774
NSF MEA-82-18226	11	p1715	N84-21181
NSF OCE-78-25700	11	p1689	N84-21015
NSF OCE-80-15789	08	p1196	N84-17800
NSF OCE-80-19448	06	p0882	N84-15739
NSF OCE-80-23763	11	p1689	N84-21015
NSF OCE-81-9486M	11	p1689	N84-21015
NSF OCE-82-12426	21	p3452	N84-31902
NSF OCE-83-11753/R	22	p3627	N84-32986
NSF OIR-82-12817	14	p2187	N84-24102
NSF OIR-83-12023	09	p1319	N84-18619
NSF PCM-81-03298	17	p2740	N84-27395
NSF PFR-78-06095	09	p1297	N84-18479
NSF PFR-78-10631	20	p3243	N84-30590
NSF PFR-79-08257	20	p3205	N84-30357
NSF PFR-79-08261	09	p1335	N84-18714
NSF PFR-79-08984	20	p3204	N84-30355
NSF PFR-80-09478	09	p1319	N84-18617
NSF PHY-79-09146	08	p1229	N84-18035
NSF PHY-79-21336	04	p0540	N84-13554
NSF PHY-80-15694	14	p2252	N84-24525
NSF PHY-80-22530	06	p0910	N84-15910
NSF PHY-80-23603	14	p2223	N84-24342
NSF PHY-82-06076	13	p1959	N84-22732
NSF PHY-82-07150	15	p2405	N84-25436
NSF PHY-82-09562	04	p0598	N84-13944
NSF PLN-82-18330	14	p2124	N84-23732
NSF PRA-79-20587	08	p1238	N84-18095
	08	p1239	N84-18096
NSF PRA-80-07238	01	p0159	N84-11050
	01	p0159	N84-11051
NSF PRA-81-18601	22	p3669	N84-33255
	22	p3669	N84-33256
NSF PRA-82-06113	12	p1862	N84-22131
	12	p1862	N84-22132
	12	p1862	N84-22133
NSF PRA-84-00609	22	p3673	N84-33286
NSF SED-79-12803	01	p0157	N84-11033
NSF SES-82-07295	09	p1377	N84-18998
NSF SES-83-42754	12	p1920	N84-22510
NSF 74-06375-A01	17	p2669	N84-27022
NSF 82-17015	01	p0110	N84-10715
	09	p1350	N84-18820
	09	p1417	N84-19272
	10	p1532	N84-20035
NSF-79-06337	03	p0373	N84-12428
NSF-82-17015	10	p1532	N84-20037
NSF-67016628	08	p1241	N84-18113
NSG-25-001-055	04	p0531	N84-13491
NSG-350	21	p3356	N84-31288
NSG-1113	07	p1069	N84-16944
NSG-1174	12	p1765	N84-21514
	23	p3690	N84-33386
NSG-1206	08	p1237	N84-18086
NSG-1297	06	p0797	N84-15196
	14	p2119	N84-23697
NSG-1323	14	p2197	N84-24180
NSG-1342	08	p1234	N84-18067
NSG-1357	19	p2957	N84-28740
NSG-1414	01	p0027	N84-10173
	11	p1623	N84-20627
	19	p2961	N84-28892
NSG-1450	20	p3290	N84-30888
NSG-1471	16	p2542	N84-26319
NSG-1561	16	p2438	N84-25639
NSG-1567	08	p1122	N84-17292
NSG-1588	08	p1164	N84-17576
	20	p3192	N84-30274
NSG-1577	22	p3644	N84-33105
NSG-1595	21	p3408	N84-31616
NSG-1598-SUPPL-3	04	p0559	N84-13686
NSG-1601	13	p1999	N84-22369
NSG-1603	01	p0093	N84-10606
NSG-1605	03	p0311	N84-12028
NSG-1607	06	p0858	N84-15587
NSG-1611	01	p0056	N84-10366
NSG-1614	11	p1760	N84-21485
NSG-1621	10	p1516	N84-19924
NSG-1622	07	p0946	N84-16140
NSG-1629	23	p3690	N84-33387
NSG-1630	22	p3530	N84-32352
NSG-1650	16	p2923	N84-26537
NSG-1655	08	p1143	N84-17436
NSG-2118	08	p1202	N84-17838
NSG-2225	10	p1545	N84-20126
NSG-2234	09	p1355	N84-18853
NSG-2260	16	p2438	N84-25642
NSG-2266	24	p3911	N84-34771
NSG-2284	11	p1628	N84-20654
NSG-2325	09	p1355	N84-18855
NSG-2397	08	p1227	N84-18015
NSG-2400	04	p0480	N84-13157
NSG-2403	09	p1277	N84-18341
NSG-3011	09	p1274	N84-18321
NSG-3016	15	p2301	N84-24809
NSG-3075	07	p1000	N84-16488
NSG-3150	08	p1117	N84-17262
NSG-3155	08	p1136	N84-17389
NSG-3160	04	p0588	N84-13865
NSG-3206	19	p2966	N84-28794
NSG-3212	07	p0957	N84-16207
NSG-3235	22	p3661	N84-33210
NSG-3246	08	p1131	N84-17353
NSG-3251	02	p0231	N84-11513
NSG-3260	04	p0478	N84-13149
NSG-3262	22	p3593	N84-32751
NSG-3264	15	p2332	N84-25001
NSG-3269	05	p0689	N84-14525
NSG-3281	22	p3581	N84-32678
NSG-3283	10	p1516	N84-19927
NSG-3291	19	p2997	N84-28990
NSG-3300	07	p0997	N84-16460
NSG-3302	12	p1906	N84-22414
	12	p1906	N84-22417
NSG-4008	08	p1170	N84-17620
NSG-4015	19	p3082	N84-29561
NSG-4028	18	p2793	N84-27724
NSG-5009	10	p1465	N84-19568
	22	p3558	N84-32534
	23	p3737	N84-33684
NSG-5011	21	p3450	N84-31896
NSG-5012	24	p3893	N84-34655
NSG-5049	06	p0849	N84-15535
	06	p0872	N84-15674
	11	p1662	N84-20842
	23	p3824	N84-34253
NSG-5088	16	p2522	N84-26193
NSG-5111	07	p1006	N84-16524
NSG-5123	13	p2027	N84-23139
	13	p2027	N84-23141
NSG-5134	06	p0864	N84-15629
	23	p3770	N84-33897
	23	p3770	N84-33898
NSG-5152	24	p3990	N84-35244
NSG-5175	22	p3622	N84-32951
NSG-5178	03	p0468	N84-13082
NSG-5187	02	p0305	N84-12004
NSG-5205	06	p0881	N84-15730
NSG-5222	12	p1830	N84-21926
NSG-5228	11	p1689	N84-21017
NSG-5234	15	p2319	N84-24921
NSG-5256	07	p1029	N84-16671
NSG-5265	07	p1029	N84-16668
	07	p1029	N84-16670
	07	p1029	N84-16672
	07	p1032	N84-16699
NSG-5266	13	p2005	N84-23007
NSG-5270	08	p1186	N84-17727
NSG-5320	15	p2428	N84-25583
NSG-5348	08	p1185	N84-17718
NSG-5351	16	p2573	N84-26513
	16	p2573	N84-26514
NSG-5373	05	p0637	N84-14193
NSG-5376	07	p1090	N84-17086

	22	p3679	N84-33322
NSG-5386	24	p3980	N84-35211
NSG-5424	12	p1922	N84-22522
NSG-7024	10	p1556	N84-20197
NSG-7054	07	p1092	N84-17105
NSG-7082	13	p2091	N84-23543
NSG-7092	08	p1246	N84-18142
	11	p1759	N84-21480
	16	p2582	N84-26559
NSG-7128	09	p1407	N84-19195
NSG-7156	13	p2073	N84-23436
	13	p2074	N84-23439
NSG-7172	11	p1602	N84-20494
	13	p1926	N84-22534
NSG-7188	22	p3678	N84-33319
NSG-7256	16	p2577	N84-26536
NSG-7270	09	p1356	N84-18862
NSG-7278	09	p1355	N84-18858
NSG-7290	09	p1353	N84-18839
NSG-7322	10	p1597	N84-20465
NSG-7324	06	p0846	N84-15520
NSG-7327	23	p3843	N84-34384
NSG-7331	07	p1079	N84-17013
	18	p2935	N84-28613
NSG-7336	09	p1355	N84-18854
NSG-7339	06	p0938	N84-16095
NSG-7405	13	p2073	N84-23432
	13	p2087	N84-23520
NSG-7407	17	p2780	N84-27652
NSG-7416	03	p0467	N84-13077
	17	p2757	N84-27505
NSG-7422	03	p0475	N84-13124
NSG-7469	07	p1059	N84-16858
	07	p1061	N84-16877
	08	p1231	N84-18046
	17	p2726	N84-27354
NSG-7470	07	p1051	N84-16805
NSG-7479	07	p0969	N84-16280
	08	p1186	N84-17730
	16	p2462	N84-25779
NSG-7480	02	p0262	N84-11720
	09	p1352	N84-18831
NSG-7493	09	p1360	N84-18885
NSG-7506	03	p0407	N84-12664
	08	p1185	N84-17721
	17	p2684	N84-27090
	17	p2685	N84-27098
	17	p2686	N84-27103
	17	p2687	N84-27113
	17	p2693	N84-27153
	17	p2695	N84-27165
	17	p2695	N84-27166
NSG-7511	19	p3123	N84-29844
NSG-7523	03	p0338	N84-12192
NSG-7527	07	p1092	N84-17103
NSG-7530	12	p1776	N84-21587
NSG-7546	13	p2081	N84-23486
	24	p3992	N84-35261
NSG-7567	09	p1355	N84-18857
NSG-7570	11	p1758	N84-21474
NSG-7572	15	p2429	N84-25587
NSG-7592	08	p1246	N84-18148
	15	p2429	N84-25587
NSG-7602	16	p2579	N84-26543
NSG-7603	20	p3319	N84-31066
NSG-7610	02	p0248	N84-11622
	06	p0878	N84-15710
	07	p1040	N84-16745
	08	p1185	N84-17723
	08	p1186	N84-17728
	11	p1681	N84-20970
	16	p2521	N84-26182
	17	p2667	N84-27005
NSG-7622	03	p0359	N84-12336
NSG-7627	17	p2617	N84-26748
NSG-8012	14	p2150	N84-23880
NSG-9033	04	p0553	N84-13642
NSG-9042	09	p1357	N84-18866
NSG-9047	09	p1353	N84-18840
NSGW-31	07	p1075	N84-16985
NSR-09-012-106	21	p3353	N84-31270
NT-SAC-00093	17	p2655	N84-26979
	17	p2655	N84-26981
NT-81-SAA-00231	17	p2655	N84-26980
NT-82-SAC-00097	10	p1484	N84-19703
NTIA-910-8106	08	p1148	N84-17471
NTVR-1987	15	p2390	N84-25339
NUSC PROJ. A65000	03	p0430	N84-12820
N01-HL-1-4136	04	p0573	N84-13774
N01-HV-2912	05	p0714	N84-14678
N99-QAXA	21	p3400	N84-31567
N00014-69-A-0200	23	p3803	N84-34113
N00014-74-C-0555	16	p2551	N84-26369
N00014-75-C-0148	09	p1332	N84-18698
	09	p1333	N84-18704
N00014-75-C-0152	11	p1691	N84-21030
N00014-75-C-0154	06	p0806	N84-15252
N00014-75-C-0177	22	p3611	N84-32882
N00014-75-C-0196	04	p0549	N84-13616
	10	p1517	N84-19930
N00014-75-C-0201	03	p0410	N84-12681
N00014-75-C-0214	13	p1993	N84-22938
N00014-75-C-0225	11	p1689	N84-21017
	17	p2720	N84-27312
N00014-75-C-0245	19	p3085	N84-29580
N00014-75-C-0247	11	p1729	N84-21278
N00014-75-C-0265	18	p2814	N84-27863
N00014-75-C-0267	01	p0124	N84-10808
	01	p0124	N84-10811
	02	p0274	N84-11792
	03	p0421	N84-12751
	03	p0421	N84-12752
	05	p0717	N84-14684
	09	p1375	N84-18979
	11	p1709	N84-21140
	11	p1719	N84-21211
	12	p1897	N84-22355
N00014-75-C-0356	01	p0067	N84-10439
N00014-75-C-0396	05	p0703	N84-14611
N00014-75-C-0455	01	p0136	N84-10890
	01	p0136	N84-10891
	02	p0282	N84-11848
	02	p0285	N84-11869
	06	p0904	N84-15869
	06	p0904	N84-15870
	06	p0904	N84-15871
	08	p1219	N84-17957
	08	p1220	N84-17962
	08	p1223	N84-17985
	16	p2549	N84-26362
	16	p2551	N84-26367
	16	p2551	N84-26368
N00014-75-C-0476	09	p1345	N84-18789
	14	p2229	N84-24364
N00014-75-C-0477	20	p3152	N84-30016
N00014-75-C-0491	08	p1145	N84-17455
	08	p1221	N84-17969
	12	p1808	N84-21785
	19	p3083	N84-29569
	19	p3088	N84-29606
N00014-75-C-0539	02	p0257	N84-11685
N00014-75-C-0540	11	p1637	N84-20705
	13	p1964	N84-22760
N00014-75-C-0541	06	p0801	N84-15222
N00014-75-C-0543	10	p1459	N84-19527
	10	p1459	N84-19528
N00014-75-C-0555	04	p0588	N84-13887
	08	p1144	N84-17440
	08	p1217	N84-17944
	08	p1222	N84-17983
	17	p2760	N84-27528
N00014-75-C-0561	05	p0690	N84-14532
	07	p1013	N84-16572
	10	p1573	N84-20310
N00014-75-C-0596	09	p1315	N84-18593
N00014-75-C-0602	01	p0142	N84-10931
	11	p1730	N84-21283
N00014-75-C-0612	04	p0623	N84-14108
N00014-75-C-0632	07	p0998	N84-16469
N00014-75-C-0643	02	p0272	N84-11780
	20	p3278	N84-30810
	20	p3279	N84-30811
	20	p3281	N84-30827
N00014-75-C-0648	01	p0137	N84-10901
	01	p0153	N84-11006
	01	p0153	N84-11007
	02	p0213	N84-11392
	11	p1744	N84-21383
N00014-75-C-0661	04	p0588	N84-13889
	04	p0589	N84-13891
	05	p0718	N84-14708
	05	p0727	N84-14776
	06	p0898	N84-15827
	07	p1052	N84-16813
	09	p1365	N84-18915
	09	p1369	N84-18938
	09	p1369	N84-18939
	13	p2030	N84-23164
	15	p2392	N84-25358
	17	p2752	N84-27469
	19	p3078	N84-29529
	22	p3638	N84-33064
N00014-75-C-0668	10	p1459	N84-19529
N00014-75-C-0671	02	p0226	N84-11482
	08	p1124	N84-17309
N00014-75-C-0673	04	p0621	N84-14098
N00014-75-C-0685	08	p1137	N84-17396
	09	p1288	N84-18407
N00014-75-C-0690	03	p0432	N84-12833
	03	p0433	N84-12836
	06	p0915	N84-15949
	12	p1901	N84-22381
N00014-75-C-0729	12	p1881	N84-22264
N00014-75-C-0795	08	p1138	N84-17399
N00014-75-C-0799	04	p0496	N84-13269
	13	p1960	N84-22737
N00014-75-C-0837	11	p1706	N84-21124
N00014-75-C-0858	01	p0129	N84-10845
N00014-75-C-0867	24	p3895	N84-34666
N00014-75-C-0880	01	p0071	N84-10466
	01	p0152	N84-11003
	10	p1455	N84-19501
	13	p1956	N84-22714
	15	p2287	N84-24722
N00014-75-C-0883	01	p0037	N84-10231
	01	p0049	N84-10318
N00014-75-C-0887	06	p0922	N84-15996
N00014-75-C-0893	11	p1691	N84-21032
N00014-75-C-0922	17	p2767	N84-27572
N00014-75-C-0939	14	p2185	N84-24090
N00014-75-C-0946	19	p3037	N84-29282
N00014-75-C-0953	18	p2560	N84-26424
N00014-75-C-1012	09	p1394	N84-19103
N00014-75-C-1024	19	p2999	N84-29004
N00014-75-C-1095	02	p0223	N84-11462
N00014-75-C-1111	17	p2757	N84-27500
N00014-75-C-1132	01	p0131	N84-10859
N00014-75-C-1183	04	p0521	N84-13423
	06	p0825	N84-15379
	07	p0983	N84-16437
	09	p1382	N84-19027
	10	p1481	N84-19675
	13	p1978	N84-22840
	13	p2029	N84-23154
	24	p3895	N84-34664
N00014-76-C-0004	06	p0866	N84-15640
	08	p1196	N84-17797
	24	p3935	N84-34909
N00014-76-C-0013	01	p0132	N84-10865
	01	p0133	N84-10873
	07	p1061	N84-16879
	07	p1061	N84-16880
	09	p1331	N84-18690
	09	p1401	N84-19154
	15	p2398	N84-25392
	15	p2399	N84-25394
N00014-76-C-0014	14	p2222	N84-24335
N00014-76-C-0016	01	p0104	N84-10678
	01	p0104	N84-10679
	03	p0432	N84-12832
	07	p1034	N84-16707
	10	p1537	N84-20069
	13	p2091	N84-23545
	17	p2727	N84-27358
	17	p2727	N84-27360
	17	p2728	N84-27362
	22	p3539	N84-32406
	24	p3919	N84-34812
N00014-76-C-0025	12	p1916	N84-22485
N00014-76-C-0036	12	p1895	N84-22341
N00014-76-C-0037	05	p0654	N84-14298
	09	p1283	N84-18378
N00014-76-C-0060	01	p0095	N84-10618
	22	p3611	N84-32880
N00014-76-C-0063	08	p1171	N84-17630
	12	p1826	N84-21907
	21	p3422	N84-31706
N00014-76-C-0071	01	p0079	N84-10513
N00014-76-C-0078	19	p3029	N84-29211
N00014-76-C-0116	18	p2846	N84-28074
N00014-76-C-0134	06	p0933	N84-16065
N00014-76-C-0139	04	p0544	N84-13580
	04	p0579	N84-13821
N00014-76-C-0184	17	p2718	N84-27304
N00014-76-C-0197	05	p0711	N84-14659
	06	p0883	N84-15745
	08	p1196	N84-17796
N00014-76-C-0207	01	p0104	N84-10677
	01	p0165	N84-11086
	17	p2781	N84-27655
N00014-76-C-0225	01	p0062	N84-10407
	01	p0138	N84-10907
	08	p1226	N84-18007
	12	p1898	N84-22361
	21	p3386	N84-31491
	21	p3387	N84-31493
	23	p3742	N84-33718
N00014-76-C-0240	03	p0389	N84-12536
	03	p0425	N84-12786
N00014-76-C-0243	23	p3810	N84-34162
N00014-76-C-0260	23	p3747	N84-33751
	24	p3900	N84-34697
N00014-76-C-0279	16	p2550	N84-26364
N00014-76-C-0288	19	p3099	N84-29688
N00014-76-C-0302	03	p0427	N84-12800
	07	p1067	N84-16925
	15	p2397	N84-25383
	21	p3473	N84-32015

N00014-76-C-0396	05	p0681	N84-14474
N00014-76-C-0408	03	p0356	N84-12314
	09	p1288	N84-18406
	10	p1466	N84-19578
	13	p1963	N84-22757
	13	p1964	N84-22758
	18	p2818	N84-27891
	20	p3144	N84-29960
N00014-76-C-0416	05	p0728	N84-14780
N00014-76-C-0430	12	p1899	N84-22367
N00014-76-C-0435	07	p1039	N84-16737
N00014-76-C-0445	07	p0967	N84-16267
	07	p0967	N84-16268
	07	p0967	N84-16269
N00014-76-C-0458	08	p1132	N84-17365
	08	p1133	N84-17366
	19	p2994	N84-28975
N00014-76-C-0475	01	p0136	N84-10893
	03	p0427	N84-12801
	04	p0592	N84-13906
	06	p0900	N84-15844
	07	p1063	N84-16894
	07	p1067	N84-16926
	09	p1372	N84-18956
	09	p1383	N84-19033
	11	p1717	N84-21201
	15	p2398	N84-25391
	15	p2400	N84-25401
	20	p3283	N84-30848
	20	p3284	N84-30850
	22	p3645	N84-33115
	22	p3648	N84-33130
N00014-76-C-0476	02	p0284	N84-11864
	04	p0606	N84-13998
N00014-76-C-0527	10	p1455	N84-19502
N00014-76-C-0578	01	p0133	N84-10871
	10	p1592	N84-20436
N00014-76-C-0616	05	p0684	N84-14494
	05	p0712	N84-14667
	05	p0712	N84-14668
N00014-76-C-0626	05	p0654	N84-14299
N00014-76-C-0671	02	p0228	N84-11492
N00014-76-C-0745	03	p0349	N84-12268
	17	p2620	N84-26766
N00014-76-C-0806	20	p3308	N84-31012
N00014-76-C-0820	12	p1798	N84-21729
N00014-76-C-0838	06	p0920	N84-15982
	09	p1391	N84-19085
	12	p1907	N84-22426
	12	p1909	N84-22440
	14	p2122	N84-23719
	14	p2222	N84-24334
N00014-76-C-0953	05	p0713	N84-14671
N00014-76-C-1048	19	p3041	N84-29296
N00014-76-C-1081	04	p0525	N84-13453
	04	p0525	N84-13454
	04	p0525	N84-13456
	04	p0612	N84-14042
N00014-76-C-1092	06	p0896	N84-15815
N00014-76-C-1097	09	p1396	N84-19119
N00014-76-C-1105	15	p2321	N84-24935
	15	p2373	N84-25238
N00014-76-C-1109	09	p1395	N84-19111
N00014-76-C-1136	19	p3013	N84-29100
N00014-77-C-0002	09	p1282	N84-18373
N00014-77-C-0018	23	p3714	N84-33539
N00014-77-C-0085	01	p0153	N84-11006
	01	p0153	N84-11007
N00014-77-C-0103	20	p3273	N84-30777
N00014-77-C-0155	10	p1529	N84-20018
	17	p2723	N84-27331
N00014-77-C-0196	20	p3291	N84-30891
N00014-77-C-0209	23	p3714	N84-33544
N00014-77-C-0224	02	p0278	N84-11822
	07	p1058	N84-16854
	08	p1223	N84-17988
	09	p1377	N84-18997
N00014-77-C-0232	11	p1652	N84-20785
N00014-77-C-0236	19	p3111	N84-29764
N00014-77-C-0263	24	p3939	N84-34931
N00014-77-C-0292	02	p0223	N84-11462
N00014-77-C-0293	20	p3147	N84-29981
	20	p3147	N84-29982
	20	p3147	N84-29983
	20	p3280	N84-30819
N00014-77-C-0306	09	p1374	N84-18973
	09	p1374	N84-18974
	09	p1381	N84-19019
	17	p2759	N84-27518
	17	p2759	N84-27519
	18	p2925	N84-28548
	19	p3093	N84-29643
N00014-77-C-0311	05	p0659	N84-14334
	05	p0660	N84-14337
	23	p3724	N84-33601
N00014-77-C-0336	01	p0116	N84-10751
N00014-77-C-0371	01	p0065	N84-10423
	02	p0278	N84-11820
	02	p0278	N84-11825
	05	p0732	N84-14806
N00014-77-C-0376	05	p0659	N84-14330
	21	p3370	N84-31384
N00014-77-C-0378	02	p0277	N84-11818
	02	p0278	N84-11820
	02	p0278	N84-11825
	05	p0726	N84-14765
	05	p0732	N84-14807
N00014-77-C-0387	08	p1131	N84-17357
N00014-77-C-0388	01	p0007	N84-10044
	16	p2446	N84-25690
	17	p2762	N84-27542
N00014-77-C-0389	02	p0240	N84-11571
	05	p0716	N84-14691
	09	p1337	N84-18731
	09	p1389	N84-19073
	14	p2187	N84-24106
N00014-77-C-0390	03	p0408	N84-12668
N00014-77-C-0392	19	p3057	N84-29397
N00014-77-C-0412	08	p1141	N84-17421
N00014-77-C-0424	17	p2624	N84-26792
N00014-77-C-0441	01	p0049	N84-10316
N00014-77-C-0465	23	p3805	N84-34126
N00014-77-C-0474	07	p1080	N84-17022
	07	p1080	N84-17024
N00014-77-C-0489	06	p0871	N84-15671
	08	p1190	N84-17757
N00014-77-C-0503	12	p1790	N84-21672
N00014-77-C-0518	12	p1920	N84-22510
N00014-77-C-0532	09	p1382	N84-19027
	10	p1480	N84-19672
	10	p1570	N84-20283
	13	p1977	N84-22835
	13	p1981	N84-22861
	20	p3174	N84-30155
N00014-77-C-0553	03	p0433	N84-12835
	07	p1071	N84-16960
N00014-77-C-0578	10	p1570	N84-20287
	10	p1570	N84-20288
	10	p1573	N84-20311
	10	p1585	N84-20388
	10	p1585	N84-20389
N00014-77-C-0605	19	p2983	N84-28906
N00014-77-C-0606	08	p1195	N84-17790
	09	p1345	N84-18788
N00014-77-C-0623	09	p1378	N84-19000
	10	p1573	N84-20309
	18	p2925	N84-28550
	18	p2925	N84-28551
	18	p2925	N84-28552
	19	p3023	N84-29171
	19	p3088	N84-29604
	19	p3090	N84-29616
N00014-77-C-0640	14	p2185	N84-24094
N00014-77-C-0641	14	p2197	N84-24180
N00014-77-C-0675	07	p1062	N84-16884
N00014-77-C-0685	15	p2287	N84-24721
N00014-77-C-0714	02	p0277	N84-11813
N00014-77-G-0008	15	p2287	N84-24723
N00014-78-C-0011	05	p0754	N84-14946
	10	p1588	N84-20410
	19	p3013	N84-29099
N00014-78-C-0035	17	p2767	N84-27573
N00014-78-C-0049	09	p1300	N84-18497
	09	p1300	N84-18500
	16	p2485	N84-25936
	17	p2653	N84-26971
	23	p3821	N84-34229
N00014-78-C-0071	20	p3250	N84-30628
N00014-78-C-0128	03	p0323	N84-12112
N00014-78-C-0133	11	p1662	N84-20845
N00014-78-C-0147	10	p1454	N84-19497
N00014-78-C-0164	04	p0580	N84-13825
	04	p0589	N84-13890
	05	p0732	N84-14807
	08	p1212	N84-17908
N00014-78-C-0238	20	p3265	N84-30716
N00014-78-C-0257	02	p0169	N84-11110
N00014-78-C-0276	12	p1801	N84-21745
N00014-78-C-0291	04	p0526	N84-13461
	04	p0612	N84-14043
N00014-78-C-0325	07	p0969	N84-16282
	07	p1071	N84-16961
	15	p2339	N84-25040
N00014-78-C-0403	02	p0227	N84-11486
N00014-78-C-0431	16	p2461	N84-25775
N00014-78-C-0494	18	p2810	N84-27839
N00014-78-C-0517	19	p3007	N84-29064
N00014-78-C-0526	20	p3173	N84-30151
N00014-78-C-0543	01	p0137	N84-10895
N00014-78-C-0566	06	p0872	N84-15673
N00014-78-C-0564	01	p0140	N84-10916
	12	p1899	N84-22369
N00014-78-C-0591	10	p1466	N84-19573
	19	p3000	N84-29010
	19	p3016	N84-29121
N00014-78-C-0629	10	p1467	N84-19582
N00014-78-C-0633	02	p0296	N84-11957
	02	p0296	N84-11958
	05	p0647	N84-14253
	19	p3051	N84-29360
N00014-78-C-0637	09	p1377	N84-18992
	09	p1377	N84-18994
	09	p1378	N84-19004
	09	p1383	N84-19030
	09	p1383	N84-19032
N00014-78-C-0647	01	p0031	N84-10195
	01	p0095	N84-10617
	03	p0347	N84-12258
	11	p1668	N84-20883
	13	p2001	N84-22981
	15	p2285	N84-24714
N00014-78-C-0675	10	p1514	N84-19915
N00014-78-C-0676	17	p2768	N84-27577
N00014-78-C-0678	03	p0378	N84-12464
N00014-78-C-0721	20	p3149	N84-29994
N00014-78-C-0722	12	p1896	N84-22348
N00014-78-C-04444	06	p0830	N84-15400
N00014-78-G-0036	23	p3822	N84-34238
N00014-79-C-0004	01	p0111	N84-10721
	18	p2892	N84-28356
	18	p2893	N84-28358
	23	p3803	N84-34114
N00014-79-C-0006	10	p1491	N84-19752
N00014-79-C-0009	10	p1577	N84-20330
	23	p3822	N84-34236
N00014-79-C-0038	12	p1895	N84-22342
N00014-79-C-0044	06	p0915	N84-15951
	19	p2987	N84-28930
N00014-79-C-0054	09	p1320	N84-18624
	09	p1320	N84-18626
	09	p1321	N84-18628
	09	p1321	N84-18629
	09	p1321	N84-18630
	09	p1394	N84-19105
N00014-79-C-0071	14	p2183	N84-24081
	17	p2737	N84-27389
N00014-79-C-0077	01	p0117	N84-10759
	01	p0137	N84-10896
	04	p0574	N84-13778
	17	p2746	N84-27436
N00014-79-C-0121	14	p2241	N84-24458
	17	p2789	N84-27582
N00014-79-C-0128	04	p0573	N84-13772
	19	p3063	N84-29436
N00014-79-C-0130	16	p2437	N84-25631
N00014-79-C-0168	16	p2536	N84-26278
N00014-79-C-0215	08	p1202	N84-17840
	14	p2186	N84-24089
N00014-79-C-0222	20	p3306	N84-31011
N00014-79-C-0231	09	p1368	N84-18933
N00014-79-C-0277	01	p0084	N84-10548
N00014-79-C-0302	03	p0423	N84-12770
	15	p2383	N84-25293
	15	p2396	N84-25370
	15	p2396	N84-25371
N00014-79-C-0312	09	p1323	N84-18643
N00014-79-C-0323	01	p0117	N84-10757
	09	p1364	N84-18907
	11	p1714	N84-21178
	13	p2029	N84-23155
	17	p2759	N84-27515
	18	p2915	N84-28486
	20	p3314	N84-31050
N00014-79-C-0332	08	p1197	N84-17806
N00014-79-C-0338	10	p1554	N84-20185
	10	p1554	N84-20186
N00014-79-C-0406	05	p0743	N84-14883
N00014-79-C-0412	21	p3444	N84-31849
N00014-79-C-0415	05	p0745	N84-14892
	17	p2765	N84-27558
N00014-79-C-0424	04	p0623	N84-14108
	20	p3162	N84-30077
	20	p3174	N84-30157
	20	p3174	N84-30158
	20	p3177	N84-30181
	20	p3178	N84-30182
	20	p3266	N84-30723
	20	p3280	N84-30821
	20	p3280	N84-30822
	20	p3280	N84-30824
	20	p3281	N84-30825
	20	p3308	N84-31012
N00014-79-C-0492	01	p0142	N84-10930
N00014-79-C-0508	17	p2734	N84-27381
N00014-79-C-0524	21	p3504	N84-32206
N00014-79-C-0533	01	p0084	N84-10421
	20	p3173	N84-30148
N00014-79-C-0550	08	p1227	N84-18019

	09	p1363	N84-18903
	10	p1547	N84-20142
	18	p2929	N84-28571
N00014-79-C-0553	17	p2663	N84-26987
	20	p3179	N84-30189
N00014-79-C-0555	09	p1323	N84-18642
N00014-79-C-0574	09	p1346	N84-18793
N00014-79-C-0584	05	p0659	N84-14329
	20	p3145	N84-29966
N00014-79-C-0588	07	p1009	N84-16545
N00014-79-C-0595	02	p0273	N84-11783
	02	p0273	N84-11784
N00014-79-C-0597	09	p1400	N84-19143
	15	p2270	N84-24630
	15	p2388	N84-25327
N00014-79-C-0621	17	p2668	N84-27014
N00014-79-C-0624	05	p0675	N84-14436
N00014-79-C-0629	08	p1232	N84-18052
	16	p2532	N84-26258
	24	p3952	N84-35023
N00014-79-C-0632	08	p1137	N84-17392
	19	p2984	N84-28907
	19	p2984	N84-28908
	19	p2984	N84-28909
N00014-79-C-0647	05	p0650	N84-14276
	05	p0744	N84-14888
	19	p2988	N84-28931
N00014-79-C-0649	20	p3153	N84-30019
N00014-79-C-0650	03	p0428	N84-12807
	06	p0901	N84-15848
	09	p1376	N84-18984
	10	p1562	N84-20236
	15	p2392	N84-25353
N00014-79-C-0658	05	p0715	N84-14685
	05	p0715	N84-14686
	10	p1554	N84-20182
	10	p1554	N84-20183
	13	p1979	N84-22848
	18	p2910	N84-28457
	19	p3070	N84-29480
N00014-79-C-0661	02	p0268	N84-11756
	02	p0278	N84-11824
N00014-79-C-0665	14	p2228	N84-24360
	14	p2228	N84-24361
	14	p2229	N84-24363
N00014-79-C-0668	09	p1279	N84-18352
	09	p1279	N84-18353
N00014-79-C-0670	13	p1956	N84-22716
	13	p1956	N84-22718
	13	p1956	N84-22719
	13	p1956	N84-22720
	13	p1957	N84-22721
	13	p1957	N84-22722
	13	p1957	N84-22723
	13	p1957	N84-22724
	13	p1957	N84-22725
	13	p2041	N84-23242
	13	p2047	N84-23284
	20	p3147	N84-29964
	20	p3147	N84-29965
	20	p3148	N84-29966
	20	p3148	N84-29967
	20	p3148	N84-29969
	20	p3148	N84-29990
N00014-79-C-0674	23	p3820	N84-34225
N00014-79-C-0682	05	p0674	N84-14426
	06	p0801	N84-15220
	14	p2122	N84-23715
	14	p2122	N84-23716
	14	p2122	N84-23717
	14	p2122	N84-23718
N00014-79-C-0683	10	p1465	N84-19570
	10	p1468	N84-19588
	10	p1468	N84-19589
N00014-79-C-0685	03	p0424	N84-12773
N00014-79-C-0731	13	p1961	N84-22739
N00014-79-C-0752	15	p2383	N84-25290
	19	p3068	N84-29462
	22	p3646	N84-33116
N00014-79-C-0754	10	p1570	N84-20285
N00014-79-C-0758	15	p2372	N84-25226
N00014-79-C-0760	09	p1387	N84-19061
	14	p2150	N84-23883
N00014-79-C-0762	18	p2811	N84-27848
N00014-79-C-0764	13	p1946	N84-22653
	15	p2287	N84-24719
	15	p2302	N84-24814
N00014-79-C-0769	21	p3409	N84-31623
N00014-79-C-0789	08	p1150	N84-17483
N00014-79-C-0792	11	p1633	N84-20677
N00014-79-C-0856	23	p3731	N84-33651
N00014-79-C-0896	07	p1075	N84-16987
N00014-79-C-0947	02	p0226	N84-11480
N00014-79-C-0991	12	p1791	N84-21681
	12	p1791	N84-21683
	12	p1797	N84-21725
	12	p1798	N84-21726
	12	p1913	N84-22461
N00014-79-F-0030	10	p1467	N84-19581
N00014-79-F-0070	19	p3063	N84-29435
N00014-80-C-0003	10	p1465	N84-19571
N00014-80-C-0026	07	p1033	N84-16705
N00014-80-C-0031	05	p0681	N84-14475
	22	p3593	N84-32755
	22	p3595	N84-32767
N00014-80-C-0046	13	p1979	N84-22850
	13	p1980	N84-22853
N00014-80-C-0048	10	p1571	N84-20297
N00014-80-C-0077	06	p0885	N84-15753
N00014-80-C-0093	05	p0739	N84-14852
	06	p0905	N84-15874
N00014-80-C-0114	10	p1550	N84-20161
N00014-80-C-0116	04	p0590	N84-13897
	04	p0612	N84-14041
	10	p1459	N84-19530
	10	p1459	N84-19531
N00014-80-C-0132	20	p3302	N84-30967
N00014-80-C-0161	18	p2899	N84-28390
N00014-80-C-0163	07	p1067	N84-16929
	19	p3091	N84-29632
N00014-80-C-0174	10	p1578	N84-20342
N00014-80-C-0176	12	p1869	N84-22180
N00014-80-C-0197	04	p0589	N84-13890
	05	p0732	N84-14807
N00014-80-C-0208	08	p1217	N84-17942
N00014-80-C-0213	04	p0506	N84-13314
	24	p3888	N84-34622
N00014-80-C-0219	06	p0909	N84-15902
N00014-80-C-0236	24	p3951	N84-35019
N00014-80-C-0240	08	p1165	N84-17582
N00014-80-C-0244	04	p0493	N84-13237
	04	p0606	N84-13997
N00014-80-C-0305	05	p0649	N84-14269
	05	p0649	N84-14270
	07	p0970	N84-16286
	21	p3359	N84-31305
	21	p3498	N84-32172
N00014-80-C-0321	02	p0285	N84-11866
N00014-80-C-0322	02	p0282	N84-11846
	02	p0285	N84-11866
	02	p0285	N84-11867
	02	p0285	N84-11868
	17	p2760	N84-27525
N00014-80-C-0346	08	p1124	N84-17310
N00014-80-C-0372	15	p2382	N84-25287
N00014-80-C-0373	02	p0281	N84-11840
N00014-80-C-0402	05	p0739	N84-14853
	06	p0891	N84-15791
N00014-80-C-0427	12	p1914	N84-22469
N00014-80-C-0440	10	p1528	N84-20010
N00014-80-C-0444	15	p2339	N84-25041
N00014-80-C-0455	01	p0064	N84-10417
	01	p0131	N84-10857
	19	p3084	N84-29571
	19	p3088	N84-29607
	20	p3281	N84-30930
N00014-80-C-0467	09	p1363	N84-18902
	19	p3067	N84-29457
N00014-80-C-0472	01	p0038	N84-10239
	01	p0086	N84-10562
	01	p0141	N84-10928
	05	p0742	N84-14871
	06	p0797	N84-15193
	06	p0914	N84-15942
	07	p1072	N84-16962
	07	p1072	N84-16964
	08	p1164	N84-17581
	09	p1321	N84-18632
	09	p1321	N84-18633
	09	p1322	N84-18641
	10	p1455	N84-19504
	12	p1914	N84-22473
	16	p2553	N84-26380
	19	p2989	N84-28938
	22	p3664	N84-33226
	24	p3908	N84-34758
N00014-80-C-0475	01	p0112	N84-10726
N00014-80-C-0479	13	p1952	N84-22694
N00014-80-C-0493	06	p0894	N84-15809
N00014-80-C-0505	01	p0130	N84-10850
	01	p0147	N84-10967
	02	p0240	N84-11571
	02	p0265	N84-11746
	02	p0272	N84-11780
	02	p0281	N84-11839
	03	p0423	N84-12769
	03	p0424	N84-12772
	04	p0580	N84-13826
	05	p0716	N84-14691
	05	p0732	N84-14809
	05	p0732	N84-14810
	05	p0741	N84-14868
	06	p0891	N84-15792
	06	p0905	N84-15878
	07	p1085	N84-17055
	09	p1337	N84-18731
	09	p1389	N84-19073
	14	p2187	N84-24106
	14	p2188	N84-24107
	14	p2212	N84-24280
	20	p3196	N84-30299
	20	p3259	N84-30686
	20	p3259	N84-30687
	20	p3273	N84-30773
	20	p3278	N84-30809
	20	p3278	N84-30810
	20	p3279	N84-30811
	20	p3281	N84-30827
	21	p3470	N84-31990
N00014-80-C-0507	21	p3518	N84-32287
N00014-80-C-0515	23	p3754	N84-33796
N00014-80-C-0522	10	p1551	N84-20164
	14	p2186	N84-24098
N00014-80-C-0532	08	p1124	N84-17305
N00014-80-C-0533	01	p0031	N84-10192
	01	p0031	N84-10197
	01	p0037	N84-10234
N00014-80-C-0538	02	p0298	N84-11954
	05	p0752	N84-14933
	15	p2413	N84-25483
N00014-80-C-0542	13	p1979	N84-22851
	13	p1980	N84-22852
N00014-80-C-0555	10	p1551	N84-20165
N00014-80-C-0559	09	p1377	N84-18996
N00014-80-C-0581	08	p1203	N84-17843
	08	p1203	N84-17844
	08	p1203	N84-17846
	14	p2187	N84-24101
	17	p2747	N84-27438
N00014-80-C-0614	06	p0850	N84-15541
	06	p0850	N84-15542
	06	p0850	N84-15546
N00014-80-C-0622	04	p0525	N84-13450
	04	p0579	N84-13820
	04	p0589	N84-13892
	09	p1378	N84-19003
	15	p2330	N84-24988
	17	p2758	N84-27508
	22	p3586	N84-32713
N00014-80-C-0631	14	p2186	N84-24096
	14	p2186	N84-24097
	19	p3072	N84-29489
N00014-80-C-0637	09	p1377	N84-18998
	09	p1383	N84-19031
	09	p1383	N84-19034
N00014-80-C-0639	12	p1866	N84-22163
	13	p2022	N84-23110
	13	p2022	N84-23111
N00014-80-C-0650	04	p0579	N84-13822
	09	p1378	N84-19006
N00014-80-C-0698	10	p1570	N84-20284
N00014-80-C-0700	04	p0481	N84-13166
N00014-80-C-0711	08	p1137	N84-17398
N00014-80-C-0713	20	p3202	N84-30338
N00014-80-C-0718	09	p1288	N84-18412
N00014-80-C-0733	01	p0050	N84-10321
	23	p3724	N84-33599
N00014-80-C-0741	12	p1894	N84-22340
N00014-80-C-0742	16	p2469	N84-25822
N00014-80-C-0750	17	p2748	N84-27444
N00014-80-C-0762	14	p2243	N84-24465
N00014-80-C-0763	20	p3177	N84-30177
N00014-80-C-0772	08	p1168	N84-17607
N00014-80-C-0778	19	p2988	N84-28936
N00014-80-C-0780	17	p2747	N84-27440
N00014-80-C-0795	17	p2626	N84-26806
	17	p2768	N84-27575
N00014-80-C-0838	05	p0747	N84-14904
N00014-80-C-0870	13	p1964	N84-22759
N00014-80-C-0882	12	p1792	N84-21685
N00014-80-C-0896	10	p1460	N84-19534
N00014-80-C-0914	23	p3824	N84-34252
N00014-80-C-0923	09	p1318	N84-18608
N00014-80-C-0937	11	p1633	N84-20678
N00014-80-K-0281	16	p2502	N84-26062
N00014-80-K-0816	01	p0119	N84-10770
	12	p1877	N84-22231
	17	p2750	N84-27452
	17	p2753	N84-27476
	18	p2921	N84-28523
N00014-80-K-0852	05	p0647	N84-14254
	05	p0647	N84-14255
	05	p0647	N84-14256
	08	p1125	N84-17314
N00014-80-K-0969	10	p1460	N84-19533
N00014-80-WR-30087	10	p1460	N84-19532
N00014-80-WR-30088	10	p1460	N84-19532
N00014-81-C-0019	10	p1554	N84-20185

N00014-81-C-0208 ..... 10 p1454 N84-19496
19 p3101 N84-29701
N00014-81-C-0217 ..... 01 p0111 N84-10719
19 p3006 N84-29056
N00014-81-C-0236 ..... 19 p3075 N84-29513
19 p3083 N84-29566
19 p3083 N84-29567
N00014-81-C-0266 ..... 13 p2022 N84-23108
14 p2185 N84-24093
N00014-81-C-0267 ..... 07 p0948 N84-16151
15 p2264 N84-24597
N00014-81-C-0307 ..... 21 p3504 N84-32206
N00014-81-C-0320 ..... 05 p0716 N84-14693
N00014-81-C-0335 ..... 05 p0728 N84-14781
N00014-81-C-0368 ..... 01 p0137 N84-10897
N00014-81-C-0418 ..... 07 p0969 N84-16281
19 p3104 N84-29721
24 p3880 N84-34584
24 p3967 N84-35120
N00014-81-C-0443 ..... 06 p0792 N84-15162
N00014-81-C-0463 ..... 19 p3111 N84-29767
N00014-81-C-0481 ..... 22 p3593 N84-32756
N00014-81-C-0569 ..... 02 p0280 N84-11834
03 p0416 N84-12721
N00014-81-C-0590 ..... 10 p1550 N84-20159
N00014-81-C-0591 ..... 08 p1203 N84-17841
N00014-81-C-0615 ..... 05 p0673 N84-14425
N00014-81-C-0616 ..... 19 p3072 N84-29489
N00014-81-C-0621 ..... 23 p3830 N84-34295
N00014-81-C-0637 ..... 01 p0086 N84-10560
N00014-81-C-0641 ..... 08 p1122 N84-17295
N00014-81-C-0647 ..... 09 p1377 N84-18995
10 p1576 N84-20329
N00014-81-C-0682 ..... 19 p2984 N84-28912
19 p2999 N84-29002
19 p2999 N84-29003
19 p2999 N84-29004
N00014-81-C-0692 ..... 12 p1836 N84-21971
17 p2714 N84-27278
17 p2718 N84-27302
17 p2721 N84-27320
20 p3251 N84-30633
N00014-81-C-0738 ..... 10 p1482 N84-19682
N00014-81-C-0776 ..... 13 p2033 N84-23182
13 p2036 N84-23207
N00014-81-C-0794 ..... 15 p2408 N84-25455
N00014-81-C-0816 ..... 02 p0226 N84-11480
N00014-81-C-2041 ..... 15 p2410 N84-25465
N00014-81-C-2048 ..... 07 p0997 N84-16465
N00014-81-C-2066 ..... 09 p1309 N84-18561
N00014-81-C-2095 ..... 10 p1576 N84-20328
N00014-81-C-2218 ..... 17 p2766 N84-27566
N00014-81-C-2254 ..... 17 p2718 N84-27302
N00014-81-C-2256 ..... 10 p1589 N84-20413
N00014-81-C-2304 ..... 02 p0288 N84-11886
N00014-81-C-2308 ..... 17 p2718 N84-27302
N00014-81-C-2321 ..... 05 p0744 N84-14887
N00014-81-C-2334 ..... 01 p0100 N84-10652
N00014-81-C-2355 ..... 01 p0149 N84-10976
N00014-81-C-2371 ..... 05 p0743 N84-14882
N00014-81-C-2444 ..... 23 p3844 N84-34389
N00014-81-C-2495 ..... 18 p2834 N84-27992
N00014-81-C-2525 ..... 08 p1235 N84-18074
N00014-81-C-2575 ..... 10 p1481 N84-19680
N00014-81-C-2633 ..... 04 p0612 N84-14040
N00014-81-F-0002 ..... 05 p0658 N84-14327
N00014-81-K-0011 ..... 04 p0506 N84-13317
N00014-81-K-0025 ..... 08 p1132 N84-17364
13 p1955 N84-22713
N00014-81-K-0033 ..... 15 p2373 N84-25240
22 p3625 N84-32973
N00014-81-K-0039 ..... 02 p0194 N84-11259
03 p0353 N84-12292
N00014-81-K-0048 ..... 06 p0932 N84-16059
06 p0933 N84-16061
06 p0933 N84-16066
06 p0934 N84-16067
08 p1203 N84-17842
N00014-81-K-0090 ..... 13 p1997 N84-22961
N00014-81-K-0112 ..... 10 p1569 N84-20262
N00014-81-K-0126 ..... 01 p0114 N84-10738
N00014-81-K-0136 ..... 17 p2745 N84-27431
21 p3457 N84-31938
N00014-81-K-0143 ..... 10 p1553 N84-20181
10 p1555 N84-20188
10 p1555 N84-20189
10 p1555 N84-20190
15 p2384 N84-25299
N00014-81-K-0144 ..... 24 p3950 N84-35014
N00014-81-K-0145 ..... 24 p3953 N84-35035
N00014-81-K-0146 ..... 01 p0062 N84-10409
01 p0071 N84-10464
13 p1983 N84-22872
13 p2033 N84-23183
N00014-81-K-0191 ..... 02 p0280 N84-11833
09 p1402 N84-19162
N00014-81-K-0229 ..... 02 p0298 N84-11956
N00014-81-K-0245 ..... 10 p1478 N84-19660
N00014-81-K-0256 ..... 13 p1983 N84-22876
N00014-81-K-0265 ..... 10 p1569 N84-20280
N00014-81-K-0301 ..... 06 p0855 N84-15568
09 p1382 N84-19029
10 p1571 N84-20293
18 p2851 N84-28103
N00014-81-K-0314 ..... 06 p0905 N84-15872
07 p1049 N84-16796
10 p1551 N84-20162
10 p1551 N84-20163
N00014-81-K-0347 ..... 19 p3111 N84-29766
N00014-81-K-0360 ..... 01 p0119 N84-10770
12 p1877 N84-22231
17 p2750 N84-27452
17 p2753 N84-27476
18 p2921 N84-28523
22 p3638 N84-33065
N00014-81-K-0362 ..... 10 p1465 N84-19572
N00014-81-K-0373 ..... 08 p1145 N84-17455
08 p1221 N84-17969
12 p1808 N84-21785
19 p3083 N84-29568
19 p3083 N84-29569
19 p3083 N84-29570
19 p3088 N84-29606
N00014-81-K-0379 ..... 08 p1222 N84-17977
N00014-81-K-0394 ..... 05 p0675 N84-14434
N00014-81-K-0399 ..... 12 p1793 N84-21693
12 p1793 N84-21694
12 p1793 N84-21695
N00014-81-K-0431 ..... 20 p3162 N84-30077
N00014-81-K-0439 ..... 14 p2187 N84-24105
N00014-81-K-0477 ..... 02 p0226 N84-11481
N00014-81-K-0479 ..... 02 p0218 N84-11429
N00014-81-K-0494 ..... 01 p0130 N84-10850
05 p0732 N84-14810
14 p2188 N84-24107
N00014-81-K-0499 ..... 05 p0655 N84-14307
19 p3101 N84-29697
N00014-81-K-0503 ..... 06 p0893 N84-15802
06 p0893 N84-15803
08 p1205 N84-17861
19 p3032 N84-29229
N00014-81-K-0516 ..... 04 p0506 N84-13315
12 p1816 N84-21835
N00014-81-K-0526 ..... 11 p1743 N84-21370
21 p3370 N84-31382
N00014-81-K-0555 ..... 01 p0078 N84-10509
N00014-81-K-0561 ..... 19 p3065 N84-29447
N00014-81-K-0567 ..... 05 p0754 N84-14947
N00014-81-K-0611 ..... 03 p0356 N84-12315
04 p0507 N84-13321
16 p2471 N84-25839
N00014-81-K-0620 ..... 11 p1744 N84-21382
20 p3149 N84-29993
N00014-81-K-0624 ..... 06 p0885 N84-15757
N00014-81-K-0625 ..... 18 p2925 N84-28551
N00014-81-K-0634 ..... 01 p0121 N84-10785
01 p0123 N84-10799
01 p0133 N84-10868
03 p0420 N84-12745
24 p3946 N84-34987
24 p3948 N84-34988
24 p3951 N84-35016
N00014-81-K-0650 ..... 16 p2503 N84-26064
N00014-81-K-0651 ..... 09 p1331 N84-18693
N00014-81-K-0664 ..... 05 p0674 N84-14427
N00014-81-K-0669 ..... 21 p3453 N84-31913
N00014-81-K-0681 ..... 17 p2663 N84-26986
N00014-81-K-0684 ..... 14 p2183 N84-24079
N00014-81-K-0691 ..... 05 p0649 N84-14266
05 p0681 N84-14477
07 p1070 N84-16950
N00014-81-K-0718 ..... 08 p0914 N84-15944
N00014-81-K-0730 ..... 07 p0974 N84-16314
N00014-81-K-0742 ..... 06 p0908 N84-15901
N00014-81-K-0759 ..... 04 p0589 N84-13894
N00014-81-K-0788 ..... 19 p2994 N84-28973
N00014-81-K-0813 ..... 08 p1152 N84-17496
09 p1374 N84-18971
19 p3006 N84-29055
N00014-81-K-0814 ..... 06 p0822 N84-15362
12 p1894 N84-22338
12 p1897 N84-22352
13 p2033 N84-23186
13 p2040 N84-23237
19 p3088 N84-29603
20 p3280 N84-30823
20 p3281 N84-30826
N00014-81-K-0817 ..... 11 p1713 N84-21170
11 p1713 N84-21173
N00014-81-M-0058 ..... 06 p0853 N84-15559
N00014-81-MP-10001 ..... 19 p3093 N84-29644
N00014-82-C-0001 ..... 01 p0116 N84-10755
21 p3459 N84-31941
22 p3586 N84-32712
N00014-82-C-0017 ..... 04 p0563 N84-13710
N00014-82-C-0019 ..... 17 p2737 N84-27389
19 p3032 N84-29230
N00014-82-C-0038 ..... 06 p0885 N84-15754
N00014-82-C-0049 ..... 10 p1569 N84-20278
N00014-82-C-0052 ..... 12 p1801 N84-21746
N00014-82-C-0057 ..... 06 p0850 N84-15543
N00014-82-C-0060 ..... 17 p2824 N84-26793
N00014-82-C-0063 ..... 23 p3772 N84-33910
23 p3772 N84-33911
N00014-82-C-0071 ..... 09 p1322 N84-18640
N00014-82-C-0085 ..... 09 p1384 N84-19037
N00014-82-C-0138 ..... 13 p1980 N84-22853
N00014-82-C-0152 ..... 06 p0908 N84-15901
N00014-82-C-0157 ..... 07 p1058 N84-16650
N00014-82-C-0212 ..... 12 p1913 N84-22466
N00014-82-C-0231 ..... 24 p3888 N84-34623
N00014-82-C-0326 ..... 05 p0662 N84-14354
N00014-82-C-0342 ..... 13 p2006 N84-23013
N00014-82-C-0347 ..... 05 p0686 N84-14511
N00014-82-C-0354 ..... 03 p0323 N84-12112
N00014-82-C-0373 ..... 15 p2365 N84-25191
N00014-82-C-0390 ..... 17 p2745 N84-27430
N00014-82-C-0391 ..... 08 p1157 N84-17535
N00014-82-C-0394 ..... 06 p0884 N84-15751
N00014-82-C-0404 ..... 15 p2373 N84-25237
N00014-82-C-0414 ..... 14 p2121 N84-23714
N00014-82-C-0431 ..... 09 p1288 N84-18409
N00014-82-C-0434 ..... 07 p0974 N84-16313
N00014-82-C-0438 ..... 21 p3451 N84-31897
N00014-82-C-0499 ..... 05 p0730 N84-14792
N00014-82-C-0512 ..... 21 p3504 N84-32205
21 p3504 N84-32206
21 p3504 N84-32207
N00014-82-C-0525 ..... 09 p1395 N84-19110
N00014-82-C-0535 ..... 18 p2846 N84-28075
N00014-82-C-0545 ..... 14 p2242 N84-24459
N00014-82-C-0559 ..... 10 p1588 N84-20406
N00014-82-C-0583 ..... 12 p1793 N84-21690
12 p1793 N84-21691
12 p1793 N84-21692
22 p3547 N84-32454
22 p3657 N84-33184
23 p3824 N84-34254
N00014-82-C-0617 ..... 10 p1589 N84-20411
N00014-82-C-0618 ..... 14 p2123 N84-23722
N00014-82-C-0620 ..... 08 p1219 N84-17960
19 p3087 N84-29600
N00014-82-C-0663 ..... 20 p3228 N84-30514
N00014-82-C-0671 ..... 06 p0926 N84-16017
N00014-82-C-0690 ..... 07 p0948 N84-16149
N00014-82-C-0693 ..... 13 p1981 N84-22862
N00014-82-C-0704 ..... 19 p3029 N84-29213
N00014-82-C-0708 ..... 15 p2280 N84-24696
N00014-82-C-0725 ..... 08 p1232 N84-18050
N00014-82-C-0749 ..... 18 p2940 N84-28650
N00014-82-C-0761 ..... 06 p0884 N84-15752
N00014-82-C-0767 ..... 18 p2924 N84-28543
N00014-82-C-0800 ..... 20 p3142 N84-29947
20 p3166 N84-30105
N00014-82-C-0845 ..... 22 p3604 N84-32830
N00014-82-C-2031 ..... 12 p1899 N84-22366
N00014-82-C-2037 ..... 20 p3184 N84-30228
N00014-82-C-2084 ..... 17 p2664 N84-26993
N00014-82-C-2092 ..... 04 p0544 N84-13583
N00014-82-C-2099 ..... 08 p1125 N84-17315
N00014-82-C-2114 ..... 22 p3586 N84-32711
N00014-82-C-2147 ..... 22 p3577 N84-32658
23 p3731 N84-33649
N00014-82-C-2150 ..... 02 p0203 N84-11324
N00014-82-C-2195 ..... 01 p0086 N84-10561
N00014-82-C-2208 ..... 16 p2472 N84-25841
N00014-82-C-2233 ..... 13 p1986 N84-22896
N00014-82-C-2253 ..... 09 p1316 N84-18598
N00014-82-C-2276 ..... 23 p3754 N84-33792
N00014-82-C-2285 ..... 05 p0675 N84-14437
N00014-82-C-2308 ..... 19 p3041 N84-29296
N00014-82-C-2311 ..... 09 p1337 N84-18728
N00014-82-C-2326 ..... 09 p1389 N84-19072
N00014-82-C-2339 ..... 16 p2497 N84-26023
N00014-82-C-2361 ..... 06 p0923 N84-16002
N00014-82-C-2370 ..... 24 p3890 N84-34630
N00014-82-C-2372 ..... 09 p1395 N84-19114
N00014-82-C-2466 ..... 13 p2046 N84-23278
N00014-82-C-2478 ..... 22 p3657 N84-33182
N00014-82-C-5076 ..... 02 p0268 N84-11756
N00014-82-F-0040 ..... 06 p0818 N84-15334
N00014-82-F-0077 ..... 06 p0829 N84-15397
N00014-82-F-0096 ..... 01 p0044 N84-10263
N00014-82-G-0011 ..... 22 p3628 N84-32992
N00014-82-G-0016 ..... 06 p0878 N84-15712
N00014-82-G-0084 ..... 07 p1081 N84-17026
N00014-82-G-0092 ..... 01 p0063 N84-10415
N00014-82-G-0093 ..... 09 p1280 N84-18359

N00014-82-G-0107 05 p0712 N84-14663
N00014-82-K-0015 17 p2763 N84-27550
N00014-82-K-0029 02 p0190 N84-11233
N00014-82-K-0048 05 p0734 N84-14820
N00014-82-K-0050 20 p3162 N84-30081
N00014-82-K-0063 20 p3202 N84-30339
N00014-82-K-0084 03 p0326 N84-12128
N00014-82-K-0109 12 p1821 N84-21869
N00014-82-K-0112 13 p1963 N84-22755
N00014-82-K-0113 14 p2121 N84-23713
15 p2405 N84-25435
18 p2930 N84-28578
24 p3880 N84-34580
N00014-82-K-0149 17 p2757 N84-27500
N00014-82-K-0154 04 p0580 N84-13823
22 p3640 N84-33077
N00014-82-K-0177 13 p1993 N84-22938
N00014-82-K-0184 09 p1369 N84-18941
14 p2211 N84-24277
14 p2211 N84-24278
14 p2212 N84-24281
14 p2213 N84-24291
14 p2219 N84-24316
17 p2749 N84-27451
17 p2758 N84-27511
17 p2758 N84-27512
17 p2758 N84-27513
19 p3062 N84-29427
N00014-82-K-0185 09 p1288 N84-18411
15 p2298 N84-24790
15 p2302 N84-24815
16 p2471 N84-25840
17 p2680 N84-27068
N00014-82-K-0193 04 p0580 N84-13825
04 p0589 N84-13890
08 p1212 N84-17908
16 p2567 N84-26473
N00014-82-K-0207 01 p0132 N84-10867
01 p0136 N84-10886
01 p0136 N84-10889
N00014-82-K-0208 20 p3292 N84-30900
N00014-82-K-0209 22 p3601 N84-32807
N00014-82-K-0263 03 p0357 N84-12325
N00014-82-K-0266 09 p1394 N84-19102
24 p3967 N84-35119
N00014-82-K-0267 02 p0213 N84-11394
N00014-82-K-0279 08 p1201 N84-17833
N00014-82-K-0294 09 p1287 N84-18403
N00014-82-K-0295 12 p1893 N84-22330
19 p3075 N84-29513
19 p3083 N84-29566
24 p3951 N84-35015
24 p3953 N84-35035
N00014-82-K-0300 09 p1378 N84-19005
N00014-82-K-0301 04 p0580 N84-13824
N00014-82-K-0310 12 p1773 N84-21559
15 p2258 N84-24561
N00014-82-K-0317 03 p0346 N84-12250
08 p1124 N84-17307
11 p1744 N84-21379
N00014-82-K-0324 11 p1652 N84-20788
11 p1653 N84-20789
N00014-82-K-0329 03 p0425 N84-12784
06 p0902 N84-15852
10 p1591 N84-20427
11 p1706 N84-21120
11 p1706 N84-21121
20 p3313 N84-31036
N00014-82-K-0334 01 p0130 N84-10850
05 p0732 N84-14810
20 p3259 N84-30687
N00014-82-K-0335 24 p3901 N84-34701
N00014-82-K-0343 01 p0096 N84-10626
N00014-82-K-0350 24 p3889 N84-34627
N00014-82-K-0351 12 p1873 N84-22204
N00014-82-K-0360 07 p1061 N84-16881
14 p2211 N84-24279
N00014-82-K-0369 15 p2263 N84-24592
N00014-82-K-0425 07 p1010 N84-16549
N00014-82-K-0449 13 p2022 N84-23112
N00014-82-K-0477 01 p0137 N84-10899
N00014-82-K-0487 20 p3263 N84-30700
N00014-82-K-0492 11 p1643 N84-20740
11 p1713 N84-21166
N00014-82-K-0496 07 p1013 N84-16573
N00014-82-K-0522 05 p0747 N84-14908
N00014-82-K-0523 11 p1740 N84-21351
17 p2620 N84-26765
N00014-82-K-0530 19 p2989 N84-28940
19 p2989 N84-28941
19 p2989 N84-28942
19 p2989 N84-28943
N00014-82-K-0536 05 p0743 N84-14884
N00014-82-K-0549 09 p1307 N84-18546
09 p1307 N84-18547
09 p1308 N84-18548
19 p3014 N84-29103
N00014-82-K-0554 01 p0084 N84-10548
N00014-82-K-0576 09 p1279 N84-18350
N00014-82-K-0582 07 p1057 N84-16848
15 p2399 N84-25393
20 p3278 N84-30808
24 p3948 N84-35001
N00014-82-K-0591 05 p0693 N84-14550
13 p2001 N84-22984
N00014-82-K-0597 09 p1282 N84-18374
N00014-82-K-0603 02 p0213 N84-11398
08 p1152 N84-17497
18 p2834 N84-27990
N00014-82-K-0608 19 p2998 N84-28999
N00014-82-K-0609 10 p1500 N84-19804
N00014-82-K-0612 06 p0801 N84-15224
13 p1963 N84-22754
17 p2619 N84-26763
17 p2620 N84-26764
24 p3881 N84-34585
N00014-82-K-0613 24 p3949 N84-35003
N00014-82-K-0639 04 p0533 N84-13507
N00014-82-K-0665 05 p0711 N84-14657
N00014-82-K-0703 01 p0132 N84-10864
11 p1713 N84-21167
N00014-82-K-0714 06 p0895 N84-15813
06 p0897 N84-15825
N00014-82-K-0715 10 p1551 N84-20167
N00014-82-K-0727 11 p1643 N84-20742
N00014-82-K-0733 11 p1759 N84-21481
N00014-82-K-0804 08 p1171 N84-17626
N00014-82-K-0814 19 p3088 N84-29602
N00014-82-K-0999 15 p2373 N84-25234
N00014-82-K-2001 04 p0604 N84-13988
N00014-82-K-2036 19 p3107 N84-29743
N00014-82-K-2050 10 p1589 N84-20412
N00014-82-K-2067 10 p1486 N84-19718
N00014-82-MP-20001 19 p3093 N84-29644
N00014-82-WR-20129 03 p0357 N84-12325
N00014-82-6-0255 14 p2153 N84-23901
N00014-83-AF-00001 07 p0970 N84-16284
07 p0979 N84-16342
N00014-83-C-0004 08 p1197 N84-17805
15 p2380 N84-25283
N00014-83-C-0010 24 p3935 N84-34910
N00014-83-C-0022 01 p0114 N84-10740
N00014-83-C-0025 14 p2247 N84-24493
22 p3674 N84-33293
N00014-83-C-0034 21 p3444 N84-31850
N00014-83-C-0057 14 p2183 N84-24082
N00014-83-C-0072 19 p3111 N84-29768
N00014-83-C-0083 09 p1298 N84-18488
N00014-83-C-0088 20 p3245 N84-30598
N00014-83-C-0090 10 p1459 N84-19526
N00014-83-C-0170 01 p0086 N84-10563
05 p0684 N84-14496
05 p0686 N84-14510
09 p1396 N84-19116
12 p1908 N84-22427
17 p2765 N84-27561
19 p3100 N84-29690
19 p3104 N84-29720
24 p3912 N84-34775
24 p3964 N84-35101
N00014-83-C-0179 10 p1575 N84-20321
N00014-83-C-0182 08 p1158 N84-17540
N00014-83-C-0199 24 p3883 N84-34604
N00014-83-C-0230 13 p2040 N84-23236
N00014-83-C-0240 11 p1629 N84-20657
N00014-83-C-0260 20 p3250 N84-30630
N00014-83-C-0270 20 p3162 N84-30080
N00014-83-C-0283 14 p2214 N84-24297
14 p2218 N84-24310
N00014-83-C-0333 09 p1367 N84-18922
N00014-83-C-0377 14 p2209 N84-24261
20 p3277 N84-30802
N00014-83-C-0394 16 p2499 N84-26032
20 p3196 N84-30300
N00014-83-C-0404 23 p3772 N84-33910
23 p3772 N84-33911
N00014-83-C-0469 22 p3559 N84-32539
N00014-83-C-0475 22 p3653 N84-33157
N00014-83-C-0484 18 p2851 N84-28100
20 p3199 N84-30321
N00014-83-C-0495 23 p3815 N84-34191
N00014-83-C-0519 08 p1228 N84-18028
N00014-83-C-0520 17 p2713 N84-27272
N00014-83-C-0525 09 p1403 N84-19169
N00014-83-C-0617 24 p3967 N84-35117
N00014-83-C-0681 19 p3062 N84-29429
N00014-83-C-0728 09 p1318 N84-18611
N00014-83-C-0749 20 p3266 N84-30725
N00014-83-C-0761 20 p3263 N84-30699
N00014-83-C-0763 19 p3111 N84-29765
N00014-83-C-2019 05 p0634 N84-14174
14 p2176 N84-24034
N00014-83-C-2034 20 p3240 N84-30572
N00014-83-C-2042 19 p3124 N84-29845
N00014-83-C-2248 18 p2818 N84-27894
N00014-83-C-2311 18 p2821 N84-27912
N00014-83-F-0013 05 p0659 N84-14331
05 p0659 N84-14332
05 p0659 N84-14335
10 p1466 N84-19577
N00014-83-F-0037 07 p1009 N84-16547
N00014-83-G-0017 11 p1689 N84-21014
N00014-83-G-0031 09 p1399 N84-19138
N00014-83-G-0048 08 p1211 N84-17901
N00014-83-G-0056 20 p3257 N84-30671
N00014-83-G-0057 02 p0289 N84-11895
03 p0455 N84-12994
N00014-83-G-0059 01 p0121 N84-10787
N00014-83-G-0068 17 p2768 N84-27576
N00014-83-G-0091 24 p3888 N84-34624
N00014-83-G-0101 09 p1381 N84-19021
N00014-83-G-0178 19 p3100 N84-29695
N00014-83-K-0019 11 p1695 N84-21060
N00014-83-K-0021 06 p0891 N84-15790
N00014-83-K-0024 13 p2019 N84-23094
N00014-83-K-0026 01 p0083 N84-10542
N00014-83-K-0030 09 p1395 N84-19112
N00014-83-K-0059 05 p0734 N84-14817
06 p0901 N84-15850
N00014-83-K-0068 20 p3245 N84-30596
N00014-83-K-0069 12 p1792 N84-21688
N00014-83-K-0074 19 p3080 N84-29547
N00014-83-K-0076 17 p2745 N84-27432
N00014-83-K-0082 17 p2721 N84-27322
N00014-83-K-0083 23 p3724 N84-33600
N00014-83-K-0125 04 p0589 N84-13891
05 p0727 N84-14775
09 p1369 N84-18938
19 p3078 N84-29529
N00014-83-K-0126 19 p3036 N84-29257
20 p3202 N84-30340
N00014-83-K-0134 18 p2810 N84-27840
N00014-83-K-0143 14 p2120 N84-23705
N00014-83-K-0146 15 p2398 N84-25388
N00014-83-K-0147 01 p0129 N84-10846
N00014-83-K-0154 08 p1132 N84-17360
N00014-83-K-0168 17 p2662 N84-26985
18 p2834 N84-27988
N00014-83-K-0183 19 p3024 N84-29177
N00014-83-K-0185 13 p1978 N84-22839
13 p1981 N84-22861
N00014-83-K-0193 20 p3265 N84-30717
N00014-83-K-0207 20 p3144 N84-29963
N00014-83-K-0211 18 p2853 N84-28115
N00014-83-K-0215 12 p1882 N84-22265
20 p3312 N84-31034
21 p3515 N84-32267
N00014-83-K-0227 17 p2668 N84-27013
N00014-83-K-0228 20 p3161 N84-30074
20 p3161 N84-30075
N00014-83-K-0257 01 p0121 N84-10786
N00014-83-K-0258 05 p0697 N84-14577
19 p3041 N84-29293
N00014-83-K-0281 10 p1567 N84-20268
14 p2169 N84-23994
N00014-83-K-0306 20 p3144 N84-29983
N00014-83-K-0365 21 p3526 N84-32336
N00014-83-K-0383 11 p1744 N84-21383
N00014-83-K-0397 19 p3068 N84-29462
22 p3646 N84-33116
N00014-83-K-0418 24 p3900 N84-34698
N00014-83-K-0422 09 p1375 N84-18981
N00014-83-K-0423 12 p1801 N84-21742
22 p3559 N84-32537
22 p3559 N84-32540
N00014-83-K-0450 10 p1455 N84-19506
19 p3000 N84-29009
N00014-83-K-0452 04 p0605 N84-13996
07 p1076 N84-16995
16 p2525 N84-26215
16 p2558 N84-26413
N00014-83-K-0468 09 p1394 N84-19103
12 p1915 N84-22475
19 p2994 N84-28970
N00014-83-K-0470 10 p1454 N84-19498
10 p1455 N84-19499
10 p1455 N84-19500
10 p1455 N84-19503
10 p1468 N84-19585
10 p1468 N84-19587
18 p2833 N84-27983
N00014-83-K-0498 11 p1743 N84-21370
21 p3370 N84-31382
21 p3409 N84-31621
N00014-83-K-0533 23 p3754 N84-33794
N00014-83-K-0560 22 p3640 N84-33078
N00014-83-K-0611 19 p2998 N84-28997
24 p3880 N84-34581

N00014-83-K-0612 22 p3663 N84-33224
N00014-83-K-0624 14 p2219 N84-24313
N00014-83-K-0643 11 p1707 N84-21127
17 p2754 N84-27479
N00014-83-K-0654 23 p3754 N84-33793
N00014-83-K-0742 19 p3063 N84-29437
N00014-83-K-0756 10 p1550 N84-20157
12 p1867 N84-22164
N00014-83-K-0757 16 p2538 N84-26295
N00014-83-K-2018 20 p3309 N84-31014
N00014-83-M-0081 05 p0670 N84-14408
08 p1144 N84-17441
N00014-83-M-0433 08 p1144 N84-17441
N00014-83-WR-3005 17 p2737 N84-27387
N00014-83-WR-3008 04 p0581 N84-13831
N00014-83-WR-30104 04 p0595 N84-13925
N00014-84-C-0060 21 p3391 N84-31520
N00014-84-C-0167 17 pC759 N84-27516
N00014-84-C-0193 21 p3498 N84-32170
N00014-84-C-0218 23 p3803 N84-34114
N00014-84-F-0005 21 p3493 N84-32133
N00014-84-F-0007 19 p3007 N84-29061
N00014-84-F-0017 21 p3359 N84-31303
N00014-84-G-0041 21 p3454 N84-31915
N00014-84-K-0010 19 p3096 N84-29660
N00014-84-K-0021 22 p3547 N84-32452
N00014-84-K-0065 16 p2565 N84-26458
N00014-84-K-0073 20 p3300 N84-30953
N00014-84-K-0146 23 p3758 N84-33821
N00014-94-F-0002 18 p2930 N84-28579
N00019-79-C-0574 06 p0861 N84-15610
N00019-81-C-0102 09 p1348 N84-18808
N00019-81-C-0179 06 p0799 N84-15205
N00019-81-C-0182 03 p0361 N84-12350
N00019-81-C-0184 04 p0506 N84-13316
N00019-81-C-0389 05 p0670 N84-14403
N00019-81-C-0392 04 p0506 N84-13318
N00019-81-C-0424 02 p0209 N84-11362
06 p0823 N84-15365
N00019-81-C-0425 03 p0452 N84-12973
N00019-81-C-0444 01 p0043 N84-10278
N00019-81-C-0471 08 p1133 N84-17367
N00019-81-C-0550 06 p0806 N84-15251
N00019-82-C-0087 19 p3073 N84-29494
N00019-82-C-0157 13 p1982 N84-22867
N00019-82-C-0189 05 p0669 N84-14398
N00019-82-C-0190 04 p0521 N84-13427
07 p0993 N84-16434
07 p0993 N84-16435
09 p1298 N84-18489
N00019-82-C-0204 03 p0451 N84-12970
N00019-82-C-0208 01 p0063 N84-10412
N00019-82-C-0246 11 p1637 N84-20703
N00019-82-C-0286 13 p2047 N84-23285
N00019-82-C-0287 13 p2044 N84-23267
N00019-82-C-0456 13 p1981 N84-22858
N00019-83-C-0034 10 p1588 N84-20408
N00019-83-C-0075 17 p2753 N84-27474
N00019-83-C-0111 20 p3144 N84-29962
N00024-78-C-5384 01 p0165 N84-11085
05 p0641 N84-14216
N00024-79-C-6043 01 p0078 N84-10511
01 p0134 N84-10876
02 p0286 N84-11876
03 p0431 N84-12822
06 p0909 N84-15904
07 p1002 N84-16496
14 p2145 N84-23856
19 p3025 N84-29182
20 p3184 N84-30229
20 p3284 N84-30851
20 p3291 N84-30893
23 p3691 N84-33391
N00024-80-C-5337 08 p1171 N84-17626
08 p1171 N84-17627
N00024-83-C-5301 01 p0036 N84-10230
03 p0473 N84-13113
05 p0644 N84-14236
05 p0680 N84-14470
06 p0824 N84-15371
07 p0981 N84-16355
09 p1257 N84-18204
11 p1695 N84-21055
11 p1761 N84-21491
13 p1941 N84-22619
13 p1943 N84-22632
13 p1943 N84-22634
13 p1982 N84-22865
15 p2326 N84-24967
20 p3135 N84-29906
20 p3140 N84-29939
21 p3354 N84-31276
21 p3372 N84-31400
21 p3386 N84-31490
N00030-82-C-0101 13 p1947 N84-22858
N00039-79-C-0295 05 p0676 N84-14441
N00039-79-Z-0169 06 p0901 N84-15849
N00039-80-C-0082 01 p0007 N84-10045
N00039-80-C-0107 12 p1812 N84-21813
19 p3016 N84-29119
N00039-80-C-0575 02 p0278 N84-11823
10 p1568 N84-20270
N00039-81-C-0357 08 p1144 N84-17445
N00039-81-C-0408 05 p0670 N84-14405
09 p1298 N84-18488
N00039-81-C-0663 07 p1084 N84-17052
N00039-81-K-0251 08 p1151 N84-17491
N00039-82-C-0235 19 p3073 N84-29495
N00039-82-C-0250 01 p0122 N84-10792
01 p0123 N84-10801
09 p1365 N84-18914
09 p1404 N84-19172
19 p3079 N84-29535
N00039-82-G-0250 24 p3969 N84-35130
N00039-84-C-0070 17 p2654 N84-26972
17 p2672 N84-27028
N00123-79-D-0272 05 p0727 N84-14770
N00123-81-C-0245 09 p1309 N84-18555
N00123-81-D-0437 11 p1706 N84-21119
N00123-82-D-0149 24 p3947 N84-34998
N00140-80-C-0097 10 p1469 N84-19597
10 p1469 N84-19598
N00140-82-C-9729 02 p0180 N84-11173
02 p0180 N84-11174
N00163-82-C-0232 05 p0630 N84-14141
N00167-81-C-0047 09 p1287 N84-18402
N00167-81-C-0248 09 p1287 N84-18402
N00167-82-C-0023 03 p0320 N84-12096
N00167-82-C-0122 16 p2484 N84-25934
N00167-82-K-0085 16 p2493 N84-25993
N00167-82-MP-00032 09 p1282 N84-18371
N00173-78-C-0242 09 p1390 N84-19076
N00173-79-C-0010 22 p3586 N84-32714
N00173-80-C-0118 09 p1310 N84-18562
N00173-80-C-0194 09 p1300 N84-18496
N00173-80-C-0202 01 p0070 N84-10457
N00173-80-C-0265 06 p0847 N84-15526
N00173-80-C-0429 01 p0149 N84-10978
N00174-31-C-0453 13 p1949 N84-22671
N00174-80-C-0316 13 p1947 N84-22662
N00174-81-C-0039 13 p1944 N84-22640
N00174-81-C-0453 08 p1125 N84-17312
13 p1950 N84-22678
N00228-81-C-AB56 02 p0223 N84-11462
N00228-81-C-H361 09 p1350 N84-18817
N00228-81-C-H459 01 p0107 N84-10696
N00228-82-C-6199 06 p0871 N84-15671
N00228-82-C-6222 07 p1039 N84-16740
08 p1113 N84-17240
N00228-82-C-6433 07 p1039 N84-16739
N00228-82-C-8170 15 p2371 N84-25227
N00228-83-C-3079 11 p1687 N84-21001
N00228-83-D-3059 19 p3008 N84-29065
N00406-82-C-2358 17 p2624 N84-26795
N00408-82-D-0675 13 p2040 N84-23237
N00600-81-C-1334 01 p0080 N84-10517
N00600-82-D-8362 22 p3529 N84-32345
N60921-79-C-0180 06 p0850 N84-15540
N60921-81-C-0305 04 p0526 N84-13458
N60921-82-C-0010 05 p0730 N84-14793
N60921-82-C-0020 12 p1764 N84-21505
N60921-82-C-0035 07 p1080 N84-17020
N60921-82-C-0039 02 p0190 N84-11232
N60921-82-C-0091 16 p2556 N84-26396
N60921-82-M-2277 17 p2723 N84-27330
N60921-83-WR-W0088 02 p0225 N84-11478
03 p0432 N84-12829
N60921-83-WR-W0113 12 p1813 N84-21820
N60921-83-WR-W0114 11 p1660 N84-20832
N61331-82-C-0024 05 p0716 N84-14690
N61339-77-C-0110 06 p0894 N84-15808
N61339-78-C-0113 10 p1550 N84-20160
N61339-79-C-0104 10 p1552 N84-20168
N61339-80-C-0063 10 p1552 N84-20169
N61339-80-D-0014 09 p1258 N84-18209
N61339-81-C-0091 14 p2205 N84-24236
N61339-81-C-0105 10 p1430 N84-19351
12 p1868 N84-22175
18 p2798 N84-27753
N61339-82-C-0151 13 p2022 N84-23109
N61339-82-D-0006 14 p2111 N84-23656
N61339-82-M-0767 13 p1935 N84-22587
N61339-82-M-1131 24 p3857 N84-34452
N61533-80-M-1520 10 p1514 N84-19915
N61533-83-M-2596 17 p2624 N84-26795
N62269-76-C-0086 16 p2437 N84-25631
N62269-80-C-0278 08 p1122 N84-17294
N62269-80-C-0720 23 p3695 N84-33419
N62269-81-C-0153 08 p1137 N84-17395
N62269-81-C-0245 04 p0491 N84-13225
N62269-81-C-0268 09 p1331 N84-18691
09 p1331 N84-18692
N62269-81-C-0717 16 p2437 N84-25831
N62269-81-C-0726 03 p0330 N84-12156
N62269-81-C-0744 06 p0890 N84-15782
N62269-82-C-0231 15 p2297 N84-24784
N62269-82-C-0246 20 p3153 N84-30021
N62269-82-C-0250 18 p2810 N84-27838
N62269-82-C-0254 20 p3128 N84-29868
N62269-82-C-0362 22 p3536 N84-32396
N62269-82-C-0442 12 p1821 N84-21870
N62269-82-M-3208 06 p0890 N84-15784
N62269-82-M-3270 06 p0890 N84-15783
N62271-81-M-2095 24 p3934 N84-34904
N62474-82-C-8277 14 p2158 N84-23831
N62583-82-M-R674 15 p2350 N84-25110
N62583-83-M-R054 15 p2343 N84-25067
N62583-83-M-T062 18 p2853 N84-28114
N66001-81-C-0538 01 p0071 N84-10462
N66001-81-R-0249 01 p0147 N84-10966
N66001-82-C-0045 12 p1807 N84-21779
12 p1811 N84-21805
N66001-82-C-0322 17 p2763 N84-27548
N66001-82-M-1575 01 p0065 N84-10427
N66001-82-M-4120 19 p3013 N84-29102
N66001-83-C-0237 14 p2173 N84-24017
N66001-83-C-0382 14 p2202 N84-24219
N66001-83-D-0094 15 p2391 N84-25351
N66001-83-G-0294 18 p2945 N84-28673
N66314-70-A-0067 05 p0663 N84-14356
05 p0663 N84-14358
N68305-80-C-0060 01 p0103 N84-10667
N68305-82-MP-20008 09 p1341 N84-18760
N68305-82-MP-20010 09 p1341 N84-18760
ONR PROJ. SR0-1403 19 p3075 N84-29514
ONR PROJ. W05-84 14 p2103 N84-23615
ONR PROJ. Z08-29 14 p2172 N84-24009
ONR PROJ. 629-803 07 p1080 N84-17023
OPM-79-DX-08 02 p0301 N84-11978
OR40AA 16 p2555 N84-26394
OSURF PROJ. 711626 16 p2462 N84-25779
OWRT PROJ. C-00211-R 17 p2725 N84-27347
PCM-8207147 09 p1352 N84-18835
PDP-110B 02 p0266 N84-11747
PHS-CA-29728 02 p0288 N84-11888
PHS-HD-01994 09 p1298 N84-18488
PHS-HD-16591 09 p1298 N84-18488
PHS-HSM-99-72-18 01 p0115 N84-10745
PHS-MH-14268 11 p1714 N84-21178
PHS-MH-29791 08 p1204 N84-17850
PHS-MH-34188 08 p1198 N84-17809
PHS-MH-36533 20 p3263 N84-30701
PHS-MH-36551 04 p0574 N84-13779
PHS-NIOSH-210-81-8001 20 p3261 N84-30695
PHS-NIOSH-210-81-8101 01 p0115 N84-10748
PHS-NS-13870 09 p1298 N84-18488
PHS-N01-HD-1-2420 09 p1298 N84-18488
PHS-RR-05596 09 p1298 N84-18488
PHS-5-R01-CA29728-02 09 p1375 N84-18982
PP-130801 05 p0647 N84-14256
PP0130801 05 p0647 N84-14254
05 p0647 N84-14255
PROJ. AGRISTARS 01 p0099 N84-10643
01 p0099 N84-10648
01 p0100 N84-10647
02 p0237 N84-11556
02 p0238 N84-11562
04 p0552 N84-13635
06 p0865 N84-15635
06 p0865 N84-15636
06 p0865 N84-15637
07 p1022 N84-16628
07 p1022 N84-16629
07 p1022 N84-16630
10 p1520 N84-19953
10 p1521 N84-19959
10 p1521 N84-19960
10 p1521 N84-19961
12 p1828 N84-21919
12 p1828 N84-21920
12 p1829 N84-21921
12 p1829 N84-21922
12 p1829 N84-21923
12 p1829 N84-21925
12 p1829 N84-21926
12 p1829 N84-21927
13 p2005 N84-23006
13 p2005 N84-23007
21 p3426 N84-31735
PROJ. BLUE CHIP 01 p0119 N84-10770
PROJ. D01-R 20 p3137 N84-29921
PROJ. 83/5002 17 p2611 N84-26716
PROJ. 2304 06 p0895 N84-15812
PROJ. 4858 04 p0581 N84-13831
P99-QAXD 11 p1694 N84-21054
RB-RLD-1982:1.1.2 20 p3132 N84-29866
RB-RLD/80.042 09 p1258 N84-18212
RB-RLD/81.014 09 p1258 N84-18212

RE-L2-82	18	p2921	N84-28527
RF68342801	04	p0563	N84-13708
RR0-0001	12	p1882	N84-22269
	12	p1896	N84-22351
	12	p1919	N84-22501
	15	p2392	N84-25357
	17	p2759	N84-27514
	19	p3062	N84-29428
	21	p3493	N84-32136
RR0-1102	22	p3607	N84-32851
	23	p3714	N84-33599
RR0-1102-42	07	p1079	N84-17018
RR0-1103	21	p3359	N84-31303
	21	p3493	N84-32133
RR0-1107	21	p3409	N84-31623
RR0-1108	12	p1901	N84-22363
RR0-1109	09	p1314	N84-18587
	10	p1576	N84-20327
	14	p2228	N84-24362
	15	p2410	N84-25466
	16	p2834	N84-27991
	18	p2929	N84-28577
	19	p3107	N84-29742
	23	p3828	N84-34279
RR0-1109-41	11	p1660	N84-20632
RR0-1306	20	p3184	N84-30230
RR0-1309	14	p2123	N84-23721
RR0-1400	09	p1221	N84-17970
RR0-1405	10	p1570	N84-20284
	14	p2210	N84-24263
	20	p3281	N84-30829
RR0-1408	14	p2202	N84-24217
RR0-1409-41	11	p1706	N84-21122
RR0-1411	14	p2123	N84-23721
RR0-2101-42	07	p1008	N84-16533
RR0-2102	09	p1318	N84-18608
	14	p2243	N84-24465
	17	p2769	N84-27582
RR0-2105	14	p2224	N84-24347
	20	p3173	N84-30149
	22	p3648	N84-33129
RR0-2301-41	11	p1713	N84-21168
RR0-2403	10	p1491	N84-19752
RR0-3204	08	p1220	N84-17964
RR0-3302	09	p1378	N84-19002
	13	p2011	N84-23043
	13	p2011	N84-23047
	14	p2228	N84-24358
	22	p3659	N84-33191
	23	p3828	N84-34280
RR0-3302-44	11	p1737	N84-21331
RR0-3406	22	p3657	N84-33183
RR0-4108	17	p2745	N84-27432
RR0-4204	11	p1713	N84-21170
	19	p3068	N84-29462
	20	p3263	N84-30699
	22	p3646	N84-33116
	23	p3810	N84-34162
RR0-4206	14	p2186	N84-24099
	15	p2382	N84-25287
	24	p3949	N84-35003
RR0-4208	13	p2022	N84-23112
RR0-4209	08	p1227	N84-18019
	10	p1553	N84-20181
	10	p1555	N84-20188
	14	p2185	N84-24093
	17	p2748	N84-27444
RR0-240201	23	p3822	N84-34237
RR00001	04	p0595	N84-13925
	17	p2734	N84-27379
	17	p2760	N84-27527
	19	p3088	N84-29605
RR01103	24	p3962	N84-35091
RR01107	03	p0433	N84-12835
RR01108	03	p0430	N84-12821
RR01109	05	p0745	N84-14891
	08	p1229	N84-18030
	10	p1479	N84-19662
	16	p2555	N84-26394
	19	p3107	N84-29740
RR01305	05	p0646	N84-14251
RR01405	16	p2551	N84-26370
RR01409	04	p0521	N84-13426
RR02101	05	p0669	N84-14399
	05	p0703	N84-14611
RR02102	05	p0754	N84-14947
RR02105	06	p0824	N84-15369
RR02301	15	p2257	N84-24558
RR02402OD	03	p0357	N84-12325
RR03302	05	p0749	N84-14917
	05	p0749	N84-14920
	16	p2580	N84-26546
	18	p2880	N84-28285
	19	p3107	N84-29739
RR03406	19	p3041	N84-29294
RR04204	15	p2383	N84-25290
RR04209	05	p0730	N84-14792
	10	p1555	N84-20189
	10	p1555	N84-20190
RR011094E	06	p0915	N84-15947
RR014110B	04	p0589	N84-13895
RR021054B	04	p0534	N84-13510
RR140941	02	p0272	N84-11781
RR0000110	05	p0730	N84-14790
RR0110941	02	p0289	N84-11892
	02	p0294	N84-11927
	06	p0914	N84-15945
RR0130644	06	p0917	N84-15961
RR0130646	09	p1385	N84-19046
RR0210346	05	p0675	N84-14440
RR0210542	04	p0520	N84-13420
	04	p0589	N84-13896
RR0210543	01	p0064	N84-10420
	01	p0067	N84-10437
	03	p0360	N84-12345
RR0220101	10	p1460	N84-19532
RR0220242	09	p1349	N84-18815
RR0220801	04	p0589	N84-13895
RR0230141	08	p1220	N84-17968
RR0240201	02	p0200	N84-11299
RR0240302	06	p0926	N84-16017
RR0310301	02	p0257	N84-11685
	10	p1543	N84-20109
RR0330244	01	p0105	N84-10680
	01	p0105	N84-10682
	06	p0915	N84-15948
RR0420401	02	p0280	N84-11834
RR0420901	02	p0273	N84-11783
	02	p0273	N84-11784
	09	p1363	N84-18903
	18	p2929	N84-28571
RR00001100	05	p0728	N84-14779
RR01310441	04	p0553	N84-13646
	05	p0697	N84-14575
RR01411001	01	p0063	N84-10414
RUE-T/R-421/A-0032/A-4468	14	p2093	N84-23555
R01-CA1-29728	02	p0266	N84-11747
R18-688	23	p3815	N84-34191
R0113	19	p3077	N84-29520
R02100000	09	p1300	N84-18499
R02204001	08	p1137	N84-17395
SERC-E.3131	15	p2257	N84-24554
SERC-GR/B/23250	13	p2031	N84-23166
	13	p2031	N84-23167
	18	p2922	N84-28533
	19	p3003	N84-29031
	20	p3171	N84-30134
SERC-GR/B/31163	18	p2923	N84-28536
	20	p3283	N84-30844
	20	p3283	N84-30845
SF12-131-691	11	p1643	N84-20741
SF6154101	06	p0798	N84-15204
SF12131691	06	p0823	N84-15367
SF31332391	01	p0052	N84-10338
SF32399492	06	p0850	N84-15540
SF57525001	05	p0719	N84-14713
SF59551697	01	p0147	N84-10966
SF61544508	05	p0689	N84-14530
SF61544603	05	p0653	N84-14293
SF68342602	01	p0087	N84-10568
SL0-01	12	p1822	N84-21881
SNSF-3.802.82	23	p3807	N84-34141
SNSF-3.998.78	23	p3807	N84-34141
SRC-GR/B/23250	05	p0733	N84-14812
SRC-GR/B/79455	03	p0426	N84-12795
	05	p0738	N84-14849
SRI PROJ. PHY-3671	17	p2620	N84-26770
SRI PROJ. PYU-1790	07	p0981	N84-16357
SRI PROJ. PYU-2527	09	p1287	N84-18404
SRI PROJ. PYU-4333	01	p0096	N84-10626
SRI PROJ. 1894	10	p1568	N84-20270
SRI PROJ. 2623	01	p0106	N84-10688
SRI PROJ. 4017	05	p0670	N84-14404
SRI PROJ. 4618	01	p0119	N84-10769
	07	p1053	N84-16821
SRI PROJ. 4716	02	p0277	N84-11817
SRI PROJ. 7821	15	p2385	N84-25307
SRI PROJ. 8871	24	p3954	N84-35036
SRO-100	22	p3638	N84-33065
SRO-105	12	p1808	N84-21785
SR0-1403	14	p2206	N84-24238
SR0-2301	09	p1313	N84-18582
	17	p2667	N84-27009
SR01403	19	p3077	N84-29522
SR0140301	08	p1227	N84-18020
SR0230100	03	p0371	N84-12419
SR0230101	06	p0844	N84-15506
SR01391279	12	p1791	N84-21681
	12	p1791	N84-21683
	12	p1798	N84-21726
SR02403001	20	p3144	N84-29961
SSI/P103	06	p0890	N84-15786
STPA-82-96-011	16	p2815	N84-27873
STPA-83-96002-471-75-86	18	p2934	N84-28607
STU-80-4464	19	p3030	N84-29220
STU-81-4626B	09	p1387	N84-19058
	18	p2853	N84-28119
STU-83-3307	15	p2359	N84-25156
	15	p2417	N84-25514
SUNPOWER PROJ. 1700	17	p2639	N84-26884
SURF-651	13	p2031	N84-23167
SWED-EPB-5315052-0	07	p1028	N84-16662
SWED-EPB-5321101-7	07	p1028	N84-16662
SWED-EPB-5321102-5	07	p1028	N84-16662
SWED-EPB-5972461-7	07	p1028	N84-16662
SWED-NSRC-R-RA-1567-101/102	13	p2035	N84-23198
SWEDCBR-810372-7	20	p3292	N84-30899
SWRI PROJ. 11-5830-014	09	p1291	N84-18426
S03-66	15	p2350	N84-25109
S03-71	16	p2519	N84-26169
S03-84-SL	23	p3828	N84-34279
S12-57	12	p1822	N84-21881
S15-65-SL	11	p1628	N84-20656
S15-80	20	p3273	N84-30775
S99-QAXH	12	p1807	N84-21781
	12	p1910	N84-22441
	13	p1983	N84-22873
S99-QMXB	10	p1491	N84-19749
	10	p1537	N84-20068
	12	p1909	N84-22439
	13	p2011	N84-23043
	14	p2228	N84-24358
	18	p2933	N84-28597
	23	p3828	N84-34278
S99QMXB	10	p1569	N84-20277
S0166AA	01	p0065	N84-10426
S0384SL	06	p0849	N84-15538
S0394SL	05	p0716	N84-14690
TC-NO-017-TRU-SCHO/SA	05	p0643	N84-14228
TENRAC PROJ. 80-L-6-3C	07	p1027	N84-16659
TENRAC PROJ. 82-S-U-1	08	p1181	N84-17691
TEXAS A&M RES. PROJ. 4022D-03	08	p1188	N84-17740
TRRL-CON/9158/23	18	p2851	N84-28104
T99-QAXL	09	p1392	N84-19087
	19	p3107	N84-29741
USAFETAC PROJ. 2242	01	p0107	N84-10697
USDA-FS-53-3187-2-29	02	p0241	N84-11577
U99QMXM	06	p0886	N84-15760
W-31-19-ENG-38	04	p0600	N84-13959
W-31-109-ENG-38	01	p0032	N84-10202
	01	p0038	N84-10242
	01	p0038	N84-10243
	01	p0039	N84-10244
	01	p0046	N84-10296
	01	p0073	N84-10479
	01	p0074	N84-10488
	01	p0081	N84-10525
	01	p0082	N84-10532
	01	p0085	N84-10554
	01	p0092	N84-10601
	01	p0097	N84-10632
	01	p0124	N84-10809
	01	p0140	N84-10920
	01	p0143	N84-10939
	01	p0155	N84-11021
	01	p0155	N84-11022
	01	p0163	N84-11070
	02	p0195	N84-11265
	02	p0201	N84-11307
	02	p0206	N84-11342
	02	p0215	N84-11408
	02	p0244	N84-11600
	02	p0291	N84-11905
	02	p0291	N84-11907
	02	p0296	N84-11943
	02	p0301	N84-11977
	02	p0304	N84-11994
	03	p0347	N84-12254
	03	p0350	N84-12274
	03	p0353	N84-12294
	03	p0353	N84-12297
	03	p0354	N84-12299
	03	p0354	N84-12302
	03	p0355	N84-12306
	03	p0356	N84-12319
	03	p0367	N84-12387
	03	p0367	N84-12389
	03	p0368	N84-12394
	03	p0368	N84-12395
	03	p0368	N84-12396
	03	p0369	N84-12404
	03	p0385	N84-12511
	03	p0390	N84-12546
	03	p0404	N84-12642
	03	p0414	N84-12709
	03	p0424	N84-12774

03 p0426 N84-12788
03 p0428 N84-12805
03 p0433 N84-12839
03 p0436 N84-12859
03 p0436 N84-12860
03 p0437 N84-12865
03 p0446 N84-12931
03 p0446 N84-12936
03 p0461 N84-13034
04 p0491 N84-13220
04 p0494 N84-13241
04 p0500 N84-13277
04 p0502 N84-13292
04 p0503 N84-13295
04 p0507 N84-13326
04 p0527 N84-13464
04 p0527 N84-13466
04 p0527 N84-13469
04 p0528 N84-13472
04 p0529 N84-13480
04 p0530 N84-13485
04 p0535 N84-13518
04 p0536 N84-13527
04 p0540 N84-13554
04 p0542 N84-13567
04 p0560 N84-13690
04 p0560 N84-13693
04 p0564 N84-13717
04 p0564 N84-13718
04 p0581 N84-13834
04 p0581 N84-13838
04 p0582 N84-13841
04 p0585 N84-13864
04 p0592 N84-13908
04 p0595 N84-13929
04 p0597 N84-13938
04 p0597 N84-13941
04 p0600 N84-13962
04 p0601 N84-13964
04 p0601 N84-13970
04 p0603 N84-13980
04 p0608 N84-14011
04 p0611 N84-14035
04 p0614 N84-14052
04 p0614 N84-14053
04 p0614 N84-14054
04 p0616 N84-14066
04 p0617 N84-14073
05 p0652 N84-14284
05 p0676 N84-14444
05 p0676 N84-14445
05 p0741 N84-14869
05 p0750 N84-14927
05 p0756 N84-14959
05 p0761 N84-14992
06 p0844 N84-15508
06 p0862 N84-15614
06 p0916 N84-15956
06 p0925 N84-16013
06 p0926 N84-16015
07 p0976 N84-16326
07 p1003 N84-16508
07 p1012 N84-16567
07 p1034 N84-16706
07 p1040 N84-16743
07 p1055 N84-16833
07 p1072 N84-16965
07 p1072 N84-16966
07 p1082 N84-17040
07 p1083 N84-17044
08 p1133 N84-17369
08 p1134 N84-17373
08 p1134 N84-17375
08 p1135 N84-17376
08 p1135 N84-17380
08 p1135 N84-17381
08 p1152 N84-17502
08 p1168 N84-17611
08 p1179 N84-17679
08 p1182 N84-17699
08 p1182 N84-17701
08 p1197 N84-17807
08 p1230 N84-18036
08 p1230 N84-18040
08 p1230 N84-18041
08 p1236 N84-18078
08 p1236 N84-18079
08 p1236 N84-18081
09 p1285 N84-18391
09 p1285 N84-18393
09 p1310 N84-18565
09 p1325 N84-18661
09 p1328 N84-18670
09 p1343 N84-18769
09 p1369 N84-18941
09 p1397 N84-19122
10 p1545 N84-20131
10 p1565 N84-20251
10 p1585 N84-20392
11 p1674 N84-20924
11 p1674 N84-20926
11 p1675 N84-20932
11 p1676 N84-20935
11 p1688 N84-21009
11 p1709 N84-21137
11 p1717 N84-21197
11 p1738 N84-21341
12 p1813 N84-21821
12 p1838 N84-21978
12 p1916 N84-22481
12 p1919 N84-22506
13 p1961 N84-22741
13 p1987 N84-22898
13 p2017 N84-23077
13 p2048 N84-23288
14 p2130 N84-23789
14 p2148 N84-23870
14 p2195 N84-24168
14 p2230 N84-24372
14 p2243 N84-24468
14 p2243 N84-24469
14 p2249 N84-24510
15 p2298 N84-24794
15 p2298 N84-24795
15 p2299 N84-24796
15 p2333 N84-25012
15 p2364 N84-25185
15 p2378 N84-25275
15 p2396 N84-25372
15 p2405 N84-25438
15 p2405 N84-25439
15 p2406 N84-25442
15 p2406 N84-25443
15 p2411 N84-25475
15 p2414 N84-25491
15 p2419 N84-25524
15 p2421 N84-25537
15 p2421 N84-25538
18 p2819 N84-27898
18 p2834 N84-27994
19 p2995 N84-28977
19 p3026 N84-29193
19 p3103 N84-29710
19 p3112 N84-29774
20 p3156 N84-30039
20 p3157 N84-30049
20 p3158 N84-30053
20 p3158 N84-30056
20 p3179 N84-30190
20 p3179 N84-30193
20 p3181 N84-30205
20 p3185 N84-30236
20 p3185 N84-30237
20 p3185 N84-30238
20 p3185 N84-30240
20 p3186 N84-30243
20 p3187 N84-30249
20 p3189 N84-30260
20 p3190 N84-30262
20 p3197 N84-30304
20 p3267 N84-30728
20 p3274 N84-30786
20 p3277 N84-30803
20 p3279 N84-30814
20 p3285 N84-30856
20 p3293 N84-30906
20 p3293 N84-30908
20 p3294 N84-30917
20 p3296 N84-30925
20 p3296 N84-30931
20 p3302 N84-30971
20 p3310 N84-31025
21 p3361 N84-31324
21 p3368 N84-31369
21 p3370 N84-31385
21 p3374 N84-31414
21 p3393 N84-31531
21 p3394 N84-31539
21 p3395 N84-31544
21 p3395 N84-31545
21 p3401 N84-31577
21 p3401 N84-31579
21 p3406 N84-31603
21 p3431 N84-31772
21 p3432 N84-31774
21 p3432 N84-31775
21 p3434 N84-31790
21 p3435 N84-31793
21 p3437 N84-31804
21 p3449 N84-31882
21 p3496 N84-32154
21 p3497 N84-32165
21 p3505 N84-32210
21 p3505 N84-32214
21 p3507 N84-32216
21 p3521 N84-32308
21 p3525 N84-32329
22 p3560 N84-32545
22 p3561 N84-32549
22 p3562 N84-32559
22 p3564 N84-32570
22 p3587 N84-32720
22 p3587 N84-32721
22 p3587 N84-32722
22 p3588 N84-32729
22 p3589 N84-32730
22 p3590 N84-32739
22 p3590 N84-32741
22 p3595 N84-32766
22 p3596 N84-32771
22 p3605 N84-32840
22 p3605 N84-32843
22 p3606 N84-32846
22 p3614 N84-32901
22 p3624 N84-32962
22 p3653 N84-33153
22 p3653 N84-33158
23 p3727 N84-33616
23 p3743 N84-33727
23 p3743 N84-33728
23 p3743 N84-33730
23 p3744 N84-33731
23 p3757 N84-33814
23 p3761 N84-33840
23 p3799 N84-34087
23 p3817 N84-34200
23 p3823 N84-34245
23 p3831 N84-34299
23 p3831 N84-34300

W-31-209-ENG-38 ..... 20 p3203 N84-30345
W-7405-ENG-2 ..... 23 p3751 N84-33781
W-7405-ENG-26 ..... 01 p0037 N84-10237
01 p0038 N84-10238
01 p0046 N84-10299
01 p0074 N84-10484
01 p0081 N84-10528
01 p0091 N84-10593
01 p0101 N84-10654
01 p0112 N84-10728
01 p0112 N84-10729
01 p0118 N84-10764
01 p0134 N84-10878
01 p0135 N84-10882
01 p0137 N84-10900
01 p0142 N84-10933
01 p0144 N84-10950
01 p0154 N84-11012
01 p0154 N84-11014
01 p0162 N84-11066
01 p0162 N84-11067
02 p0191 N84-11241
02 p0194 N84-11262
02 p0195 N84-11264
02 p0202 N84-11313
02 p0205 N84-11333
02 p0214 N84-11402
02 p0219 N84-11435
02 p0220 N84-11445
02 p0224 N84-11471
02 p0229 N84-11505
02 p0258 N84-11688
02 p0264 N84-11741
02 p0266 N84-11751
02 p0270 N84-11769
02 p0271 N84-11770
02 p0283 N84-11853
02 p0296 N84-11941
02 p0296 N84-11942
02 p0300 N84-11967
02 p0301 N84-11974
03 p0350 N84-12273
03 p0353 N84-12295
03 p0354 N84-12303
03 p0354 N84-12304
03 p0354 N84-12305
03 p0372 N84-12425
03 p0372 N84-12426
03 p0373 N84-12427
03 p0373 N84-12430
03 p0380 N84-12477
03 p0383 N84-12497
03 p0384 N84-12500
03 p0384 N84-12501
03 p0384 N84-12504
03 p0389 N84-12540
03 p0390 N84-12542
03 p0402 N84-12626
03 p0406 N84-12657

03 p0420 N84-12748
03 p0421 N84-12755
03 p0427 N84-12802
03 p0435 N84-12851
03 p0436 N84-12863
03 p0437 N84-12867
03 p0438 N84-12875
03 p0439 N84-12881
03 p0440 N84-12887
03 p0441 N84-12897
03 p0445 N84-12923
03 p0449 N84-12952
03 p0449 N84-12956
03 p0450 N84-12958
03 p0450 N84-12959
03 p0450 N84-12961
03 p0453 N84-12981
03 p0453 N84-12982
03 p0453 N84-12984
03 p0454 N84-12990
03 p0455 N84-12995
03 p0460 N84-13031
04 p0496 N84-13254
04 p0499 N84-13275
04 p0500 N84-13278
04 p0500 N84-13280
04 p0501 N84-13284
04 p0501 N84-13285
04 p0501 N84-13286
04 p0501 N84-13288
04 p0502 N84-13293
04 p0502 N84-13294
04 p0503 N84-13296
04 p0504 N84-13305
04 p0504 N84-13306
04 p0522 N84-13434
04 p0529 N84-13479
04 p0534 N84-13513
04 p0535 N84-13519
04 p0536 N84-13521
04 p0536 N84-13526
04 p0537 N84-13529
04 p0537 N84-13533
04 p0545 N84-13590
04 p0545 N84-13592
04 p0554 N84-13648
04 p0559 N84-13684
04 p0560 N84-13692
04 p0564 N84-13721
04 p0565 N84-13723
04 p0571 N84-13759
04 p0571 N84-13764
04 p0582 N84-13844
04 p0583 N84-13847
04 p0592 N84-13907
04 p0592 N84-13909
04 p0606 N84-14000
04 p0606 N84-14001
04 p0606 N84-14002
04 p0607 N84-14004
04 p0607 N84-14006
04 p0609 N84-14017
04 p0611 N84-14030
04 p0613 N84-14045
04 p0614 N84-14054
04 p0616 N84-14068
05 p0651 N84-14277
05 p0655 N84-14309
05 p0656 N84-14312
05 p0656 N84-14313
05 p0685 N84-14503
05 p0745 N84-14897
05 p0758 N84-14966
05 p0760 N84-14984
06 p0796 N84-15187
06 p0807 N84-15256
06 p0807 N84-15257
06 p0851 N84-15548
06 p0853 N84-15560
06 p0872 N84-15677
06 p0875 N84-15693
06 p0882 N84-15739
06 p0893 N84-15799
06 p0899 N84-15836
06 p0904 N84-15865
06 p0920 N84-15979
06 p0920 N84-15984
06 p0921 N84-15986
06 p0924 N84-16005
07 p0976 N84-16327
07 p0976 N84-16328
07 p0976 N84-16329
07 p0979 N84-16346
07 p0980 N84-16348
07 p1003 N84-16504
07 p1003 N84-16506
07 p1003 N84-16507
07 p1026 N84-16650
07 p1056 N84-16838
07 p1072 N84-16967
07 p1076 N84-16996
07 p1076 N84-16998
07 p1076 N84-16999
07 p1077 N84-17004
07 p1078 N84-17011
07 p1083 N84-17041
07 p1084 N84-17051
08 p1123 N84-17297
08 p1133 N84-17370
08 p1133 N84-17372
08 p1134 N84-17374
08 p1134 N84-17376
08 p1134 N84-17377
08 p1138 N84-17403
08 p1167 N84-17597
08 p1178 N84-17677
08 p1178 N84-17678
08 p1182 N84-17700
08 p1182 N84-17702
08 p1183 N84-17703
08 p1228 N84-18024
08 p1229 N84-18033
08 p1229 N84-18035
08 p1238 N84-18094
09 p1280 N84-18361
09 p1285 N84-18394
09 p1289 N84-18413
09 p1289 N84-18418
09 p1342 N84-18763
09 p1379 N84-19009
09 p1392 N84-19089
09 p1392 N84-19091
10 p1468 N84-19590
10 p1472 N84-19611
10 p1494 N84-19769
10 p1497 N84-19785
10 p1498 N84-19792
10 p1498 N84-19794
10 p1499 N84-19799
10 p1502 N84-19821
10 p1518 N84-19936
10 p1577 N84-20335
10 p1586 N84-20393
10 p1593 N84-20440
10 p1593 N84-20441
11 p1653 N84-20795
11 p1665 N84-20865
11 p1675 N84-20931
11 p1675 N84-20933
11 p1706 N84-21133
11 p1746 N84-21397
12 p1813 N84-21817
12 p1813 N84-21819
12 p1814 N84-21823
12 p1817 N84-21842
12 p1819 N84-21854
12 p1861 N84-22124
12 p1868 N84-22176
12 p1911 N84-22448
12 p1911 N84-22450
13 p1987 N84-22899
13 p1994 N84-22939
13 p2045 N84-23272
14 p2124 N84-23729
14 p2149 N84-23874
14 p2199 N84-24194
15 p2330 N84-24992
15 p2333 N84-25011
15 p2351 N84-25111
15 p2372 N84-25230
15 p2393 N84-25362
15 p2399 N84-25397
15 p2400 N84-25402
15 p2411 N84-25476
15 p2414 N84-25493
15 p2415 N84-25498
16 p2464 N84-25790
16 p2512 N84-26120
16 p2566 N84-26465
18 p2814 N84-27866
18 p2815 N84-27868
18 p2878 N84-28273
18 p2933 N84-28600
18 p2939 N84-28639
18 p2941 N84-28655
19 p3032 N84-29232
19 p3103 N84-29712
20 p3154 N84-30028
20 p3158 N84-30057
20 p3185 N84-30239
20 p3196 N84-30296
20 p3305 N84-30992

W-7405-ENG-36 .....
01 p0073 N84-10481
01 p0081 N84-10526
01 p0082 N84-10536
01 p0085 N84-10550
01 p0088 N84-10575
01 p0097 N84-10631
01 p0098 N84-10635
01 p0098 N84-10637
01 p0124 N84-10805
01 p0124 N84-10807
01 p0129 N84-10841
01 p0142 N84-10936
01 p0143 N84-10937
01 p0143 N84-10941
01 p0145 N84-10952
01 p0145 N84-10953
01 p0145 N84-10954
01 p0145 N84-10955
01 p0146 N84-10959
01 p0148 N84-10972
01 p0151 N84-10991
01 p0151 N84-10993
01 p0151 N84-10994
01 p0155 N84-11019
01 p0162 N84-11064
02 p0186 N84-11211
02 p0190 N84-11236
02 p0191 N84-11240
02 p0195 N84-11268
02 p0200 N84-11305
02 p0201 N84-11306
02 p0201 N84-11309
02 p0214 N84-11399
02 p0215 N84-11410
02 p0218 N84-11432
02 p0219 N84-11433
02 p0220 N84-11441
02 p0220 N84-11442
02 p0220 N84-11446
02 p0223 N84-11466
02 p0224 N84-11468
02 p0224 N84-11469
02 p0226 N84-11484
02 p0227 N84-11487
02 p0227 N84-11490
02 p0250 N84-11634
02 p0250 N84-11635
02 p0277 N84-11814
02 p0282 N84-11849
02 p0285 N84-11871
02 p0289 N84-11897
02 p0292 N84-11917
02 p0293 N84-11918
02 p0295 N84-11932
02 p0295 N84-11933
02 p0301 N84-11973
03 p0366 N84-12384
03 p0367 N84-12388
03 p0380 N84-12474
03 p0381 N84-12480
03 p0381 N84-12481
03 p0381 N84-12483
03 p0381 N84-12484
03 p0382 N84-12485
03 p0382 N84-12488
03 p0408 N84-12672
03 p0416 N84-12723
03 p0419 N84-12736
03 p0419 N84-12737
03 p0426 N84-12790
03 p0434 N84-12843
03 p0434 N84-12845
03 p0435 N84-12853
03 p0437 N84-12869
03 p0437 N84-12870
03 p0439 N84-12880
03 p0439 N84-12882
03 p0440 N84-12886
03 p0442 N84-12904
03 p0442 N84-12905
03 p0445 N84-12928
03 p0446 N84-12930
03 p0453 N84-12979
03 p0457 N84-13006
03 p0463 N84-13047
03 p0476 N84-13133
21 p3358 N84-31297
21 p3372 N84-31395
21 p3414 N84-31647
21 p3497 N84-32166
22 p3556 N84-32518
22 p3605 N84-32837
22 p3649 N84-33135
23 p3750 N84-33774
23 p3790 N84-34040
23 p3814 N84-34188

04 p0488 N84-13203
04 p0494 N84-13246
04 p0496 N84-13255
04 p0505 N84-13307
04 p0508 N84-13329
04 p0508 N84-13330
04 p0515 N84-13387
04 p0522 N84-13433
04 p0523 N84-13439
04 p0523 N84-13440
04 p0529 N84-13478
04 p0535 N84-13516
04 p0536 N84-13525
04 p0540 N84-13555
04 p0541 N84-13560
04 p0541 N84-13564
04 p0542 N84-13572
04 p0558 N84-13681
04 p0584 N84-13719
04 p0583 N84-13850
04 p0585 N84-13863
04 p0590 N84-13901
04 p0596 N84-13936
04 p0597 N84-13942
04 p0598 N84-13946
04 p0599 N84-13950
04 p0599 N84-13952
04 p0599 N84-13953
04 p0599 N84-13956
04 p0607 N84-14003
04 p0607 N84-14005
04 p0608 N84-14013
04 p0610 N84-14023
04 p0611 N84-14031
04 p0613 N84-14048
04 p0614 N84-14051
04 p0615 N84-14057
04 p0620 N84-14091
04 p0620 N84-14092
04 p0621 N84-14097
04 p0622 N84-14105
05 p0656 N84-14310
05 p0662 N84-14349
05 p0662 N84-14350
05 p0676 N84-14443
05 p0677 N84-14449
05 p0685 N84-14506
05 p0730 N84-14794
05 p0730 N84-14795
05 p0730 N84-14796
05 p0738 N84-14848
05 p0745 N84-14896
05 p0748 N84-14910
05 p0750 N84-14924
05 p0750 N84-14928
05 p0755 N84-14951
05 p0756 N84-14958
05 p0756 N84-14960
05 p0758 N84-14969
05 p0763 N84-15006
05 p0763 N84-15007
05 p0766 N84-15022
06 p0797 N84-15197
06 p0813 N84-15290
06 p0813 N84-15292
06 p0830 N84-15402
06 p0830 N84-15405
06 p0845 N84-15510
06 p0845 N84-15511
06 p0853 N84-15561
06 p0879 N84-15718
06 p0879 N84-15719
06 p0902 N84-15854
06 p0918 N84-15967
06 p0920 N84-15977
06 p0920 N84-15978
06 p0923 N84-16003
06 p0924 N84-16007
06 p0925 N84-16012
06 p0925 N84-16014
06 p0935 N84-16081
06 p0940 N84-16105
06 p0941 N84-16114
07 p0966 N84-16261
07 p0970 N84-16288
07 p0972 N84-16297
07 p1055 N84-16834
07 p1072 N84-16968
07 p1073 N84-16972
07 p1074 N84-16978
07 p1074 N84-16979
07 p1074 N84-16980
07 p1074 N84-16981
07 p1077 N84-17001
07 p1077 N84-17002
07 p1085 N84-17056
07 p1089 N84-17085
07 p1093 N84-17111
07 p1094 N84-17112
07 p1094 N84-17113
07 p1094 N84-17114
07 p1094 N84-17116
08 p1125 N84-17316
08 p1126 N84-17318
08 p1126 N84-17319
08 p1160 N84-17551
08 p1188 N84-17739
08 p1233 N84-18058
08 p1233 N84-18059
08 p1236 N84-18077
08 p1238 N84-18093
08 p1241 N84-18110
08 p1246 N84-18143
09 p1290 N84-18423
09 p1290 N84-18425
09 p1310 N84-18564
09 p1324 N84-18647
09 p1393 N84-19094
09 p1415 N84-19261
09 p1415 N84-19262
10 p1457 N84-19513
10 p1469 N84-19592
10 p1482 N84-19685
10 p1499 N84-19798
10 p1502 N84-19820
10 p1537 N84-20070
10 p1564 N84-20249
10 p1586 N84-20394
10 p1586 N84-20395
10 p1586 N84-20396
10 p1586 N84-20399
10 p1595 N84-20453
10 p1597 N84-20467
11 p1628 N84-20652
11 p1629 N84-20660
11 p1655 N84-20801
11 p1664 N84-20856
11 p1674 N84-20925
11 p1683 N84-20984
11 p1717 N84-21199
11 p1719 N84-21210
11 p1728 N84-21272
11 p1732 N84-21298
11 p1732 N84-21300
11 p1737 N84-21333
11 p1737 N84-21334
11 p1750 N84-21423
11 p1758 N84-21479
12 p1794 N84-21698
12 p1799 N84-21732
12 p1816 N84-21841
12 p1819 N84-21855
12 p1824 N84-21891
12 p1848 N84-22045
12 p1884 N84-22280
12 p1904 N84-22398
12 p1904 N84-22399
12 p1908 N84-22431
12 p1915 N84-22479
12 p1916 N84-22482
12 p1916 N84-22483
14 p2142 N84-23846
14 p2176 N84-24037
14 p2224 N84-24344
14 p2225 N84-24353
14 p2229 N84-24366
14 p2229 N84-24368
14 p2230 N84-24371
14 p2230 N84-24374
14 p2230 N84-24376
14 p2230 N84-24377
15 p2298 N84-24791
15 p2302 N84-24817
15 p2339 N84-25043
15 p2405 N84-25436
15 p2411 N84-25473
15 p2411 N84-25477
15 p2412 N84-25478
15 p2412 N84-25479
15 p2420 N84-25536
16 p2513 N84-26126
16 p2514 N84-26134
16 p2517 N84-26154
16 p2518 N84-26161
16 p2559 N84-26415
17 p2748 N84-27447
17 p2777 N84-27632
18 p2933 N84-28601
19 p3002 N84-29028
19 p3011 N84-29086
19 p3020 N84-29149
19 p3030 N84-29219
19 p3079 N84-29540
19 p3108 N84-29748
20 p3156 N84-30040
20 p3162 N84-30062
20 p3175 N84-30163
20 p3175 N84-30165
20 p3179 N84-30194
20 p3180 N84-30200
20 p3180 N84-30203
20 p3185 N84-30235
20 p3186 N84-30245
20 p3187 N84-30248
20 p3190 N84-30268
20 p3193 N84-30277
20 p3193 N84-30278
20 p3193 N84-30279
20 p3193 N84-30280
20 p3193 N84-30281
20 p3194 N84-30284
20 p3194 N84-30285
20 p3194 N84-30289
20 p3196 N84-30295
20 p3197 N84-30307
20 p3203 N84-30349
20 p3236 N84-30539
20 p3241 N84-30576
20 p3242 N84-30580
20 p3242 N84-30582
20 p3242 N84-30583
20 p3247 N84-30607
20 p3273 N84-30780
20 p3277 N84-30804
20 p3279 N84-30813
20 p3282 N84-30836
20 p3282 N84-30837
20 p3284 N84-30853
20 p3284 N84-30854
20 p3284 N84-30855
20 p3285 N84-30860
20 p3291 N84-30895
20 p3294 N84-30911
20 p3295 N84-30919
20 p3295 N84-30920
20 p3296 N84-30927
20 p3298 N84-30943
20 p3299 N84-30947
20 p3302 N84-30972
20 p3303 N84-30973
20 p3303 N84-30975
20 p3303 N84-30980
20 p3304 N84-30984
20 p3304 N84-30985
20 p3304 N84-30986
20 p3304 N84-30987
20 p3305 N84-30989
20 p3305 N84-30990
20 p3319 N84-31072
20 p3320 N84-31080
20 p3321 N84-31081
21 p3360 N84-31317
21 p3361 N84-31323
21 p3370 N84-31386
21 p3374 N84-31413
21 p3387 N84-31497
21 p3387 N84-31498
21 p3387 N84-31499
21 p3393 N84-31533
21 p3395 N84-31546
21 p3402 N84-31581
21 p3402 N84-31582
21 p3402 N84-31583
21 p3410 N84-31632
21 p3423 N84-31710
21 p3423 N84-31711
21 p3432 N84-31776
21 p3444 N84-31855
21 p3494 N84-32139
21 p3496 N84-32160
21 p3497 N84-32164
21 p3498 N84-32167
21 p3498 N84-32174
21 p3502 N84-32198
21 p3502 N84-32199
21 p3506 N84-32215
21 p3523 N84-32322
22 p3555 N84-32514
22 p3556 N84-32515
22 p3562 N84-32557
22 p3588 N84-32723
22 p3588 N84-32725
22 p3590 N84-32738
22 p3595 N84-32769
22 p3602 N84-32817
22 p3602 N84-32818
22 p3629 N84-32993
22 p3638 N84-33066

	22	p3641	N84-33066
	22	p3641	N84-33068
	22	p3646	N84-33122
	22	p3649	N84-33136
	22	p3655	N84-33169
	22	p3659	N84-33196
	22	p3664	N84-33230
	22	p3665	N84-33232
	22	p3665	N84-33233
	22	p3666	N84-33243
	22	p3666	N84-33244
	22	p3666	N84-33245
	22	p3677	N84-33311
	22	p3679	N84-33321
	23	p3712	N84-33529
	23	p3725	N84-33607
	23	p3799	N84-34066
	23	p3818	N84-34210
	23	p3818	N84-34211
	23	p3823	N84-34241
	23	p3828	N84-34263
	23	p3829	N84-34286
	23	p3830	N84-34297
	23	p3839	N84-34352
	23	p3839	N84-34353
W-7405-ENG-38	21	p3526	N84-32339
W-7405-ENG-45	10	p1453	N84-19488
W-7405-ENG-48	01	p0009	N84-10054
	01	p0037	N84-10236
	01	p0045	N84-10288
	01	p0047	N84-10301
	01	p0051	N84-10326
	01	p0057	N84-10373
	01	p0068	N84-10442
	01	p0068	N84-10444
	01	p0068	N84-10445
	01	p0073	N84-10482
	01	p0074	N84-10483
	01	p0074	N84-10485
	01	p0075	N84-10490
	01	p0075	N84-10491
	01	p0080	N84-10521
	01	p0085	N84-10553
	01	p0088	N84-10573
	01	p0090	N84-10586
	01	p0090	N84-10589
	01	p0097	N84-10634
	01	p0119	N84-10774
	01	p0124	N84-10810
	01	p0134	N84-10879
	01	p0134	N84-10880
	01	p0144	N84-10948
	01	p0144	N84-10949
	01	p0146	N84-10958
	01	p0151	N84-10990
	01	p0162	N84-11062
	01	p0162	N84-11065
	01	p0163	N84-11071
	02	p0190	N84-11235
	02	p0191	N84-11238
	02	p0196	N84-11272
	02	p0196	N84-11274
	02	p0196	N84-11277
	02	p0196	N84-11278
	02	p0197	N84-11279
	02	p0205	N84-11334
	02	p0206	N84-11343
	02	p0206	N84-11344
	02	p0218	N84-11430
	02	p0219	N84-11437
	02	p0224	N84-11472
	02	p0225	N84-11473
	02	p0225	N84-11477
	02	p0227	N84-11485
	02	p0227	N84-11491
	02	p0256	N84-11677
	02	p0258	N84-11687
	02	p0274	N84-11795
	02	p0283	N84-11852
	02	p0290	N84-11898
	02	p0296	N84-11944
	02	p0297	N84-11945
	02	p0297	N84-11946
	03	p0347	N84-12253
	03	p0349	N84-12272
	03	p0353	N84-12298
	03	p0358	N84-12326
	03	p0364	N84-12370
	03	p0365	N84-12373
	03	p0365	N84-12374
	03	p0367	N84-12390
	03	p0368	N84-12397
	03	p0380	N84-12472
	03	p0380	N84-12473
	03	p0380	N84-12475
	03	p0380	N84-12476
	03	p0380	N84-12478
	03	p0381	N84-12482
	03	p0382	N84-12486
	03	p0404	N84-12646
	03	p0421	N84-12750
	03	p0426	N84-12789
	03	p0430	N84-12816
	03	p0433	N84-12841
	03	p0434	N84-12848
	03	p0439	N84-12883
	03	p0441	N84-12899
	03	p0442	N84-12900
	03	p0446	N84-12932
	03	p0446	N84-12933
	03	p0447	N84-12939
	03	p0447	N84-12940
	03	p0448	N84-12946
	03	p0448	N84-12948
	03	p0449	N84-12954
	03	p0450	N84-12960
	03	p0453	N84-12983
	03	p0454	N84-12985
	03	p0454	N84-12991
	03	p0458	N84-13013
	04	p0485	N84-13189
	04	p0490	N84-13219
	04	p0492	N84-13228
	04	p0492	N84-13230
	04	p0495	N84-13247
	04	p0496	N84-13252
	04	p0500	N84-13279
	04	p0501	N84-13287
	04	p0509	N84-13339
	04	p0523	N84-13436
	04	p0523	N84-13438
	04	p0528	N84-13471
	04	p0534	N84-13512
	04	p0536	N84-13528
	04	p0539	N84-13543
	04	p0540	N84-13553
	04	p0540	N84-13557
	04	p0542	N84-13566
	04	p0542	N84-13568
	04	p0542	N84-13569
	04	p0545	N84-13588
	04	p0545	N84-13589
	04	p0546	N84-13600
	04	p0547	N84-13601
	04	p0550	N84-13625
	04	p0560	N84-13689
	04	p0565	N84-13722
	04	p0578	N84-13809
	04	p0578	N84-13810
	04	p0581	N84-13835
	04	p0582	N84-13843
	04	p0582	N84-13845
	04	p0583	N84-13848
	04	p0583	N84-13849
	04	p0585	N84-13865
	04	p0586	N84-13868
	04	p0590	N84-13902
	04	p0594	N84-13918
	04	p0598	N84-13947
	04	p0600	N84-13957
	04	p0600	N84-13958
	04	p0601	N84-13967
	04	p0602	N84-13972
	04	p0605	N84-13990
	04	p0605	N84-13991
	04	p0605	N84-13992
	04	p0605	N84-13993
	04	p0605	N84-13995
	04	p0607	N84-14009
	04	p0608	N84-14015
	04	p0610	N84-14028
	04	p0613	N84-14047
	04	p0616	N84-14067
	04	p0622	N84-14106
	05	p0645	N84-14245
	05	p0657	N84-14317
	05	p0660	N84-14339
	05	p0676	N84-14447
	05	p0686	N84-14512
	05	p0704	N84-14620
	05	p0709	N84-14646
	05	p0755	N84-14956
	05	p0763	N84-15008
	06	p0802	N84-15226
	06	p0807	N84-15259
	06	p0825	N84-15382
	06	p0845	N84-15509
	06	p0851	N84-15547
	06	p0861	N84-15612
	06	p0874	N84-15688
	06	p0882	N84-15737
	06	p0896	N84-15818
	06	p0898	N84-15831
	06	p0918	N84-15968
	06	p0939	N84-16102
	07	p0960	N84-16223
	07	p0972	N84-16295
	07	p0972	N84-16296
	07	p0972	N84-16301
	07	p0979	N84-16347
	07	p0981	N84-16356
	07	p0981	N84-16357
	07	p0981	N84-16358
	07	p0994	N84-16444
	07	p0994	N84-16445
	07	p0998	N84-16472
	07	p1003	N84-16503
	07	p1010	N84-16555
	07	p1011	N84-16556
	07	p1014	N84-16574
	07	p1027	N84-16655
	07	p1053	N84-16816
	07	p1055	N84-16836
	07	p1056	N84-16837
	07	p1068	N84-16939
	07	p1072	N84-16969
	07	p1073	N84-16971
	07	p1077	N84-17005
	07	p1078	N84-17008
	07	p1078	N84-17009
	07	p1078	N84-17010
	07	p1081	N84-17033
	07	p1090	N84-17087
	08	p1138	N84-17404
	08	p1152	N84-17501
	08	p1162	N84-17564
	08	p1162	N84-17565
	08	p1162	N84-17568
	08	p1165	N84-17585
	08	p1213	N84-17914
	08	p1221	N84-17972
	08	p1221	N84-17974
	08	p1226	N84-18012
	08	p1229	N84-18031
	08	p1233	N84-18057
	08	p1233	N84-18060
	08	p1233	N84-18062
	08	p1234	N84-18063
	08	p1237	N84-18084
	09	p1256	N84-18199
	09	p1290	N84-18424
	09	p1388	N84-19062
	09	p1392	N84-19090
	10	p1452	N84-19487
	10	p1482	N84-19687
	10	p1494	N84-19772
	10	p1499	N84-19797
	10	p1501	N84-19812
	10	p1564	N84-20248
	10	p1565	N84-20252
	10	p1565	N84-20253
	10	p1574	N84-20318
	10	p1575	N84-20319
	10	p1575	N84-20324
	10	p1586	N84-20398
	10	p1596	N84-20458
	11	p1626	N84-20644
	11	p1635	N84-20691
	11	p1644	N84-20751
	11	p1644	N84-20752
	11	p1647	N84-20772
	11	p1654	N84-20800
	11	p1661	N84-20837
	11	p1663	N84-20855
	11	p1665	N84-20864
	11	p1669	N84-20889
	11	p1671	N84-20907
	11	p1676	N84-20936
	11	p1693	N84-21042
	11	p1708	N84-21135
	11	p1710	N84-21147
	11	p1716	N84-21191
	11	p1716	N84-21192
	11	p1732	N84-21299
	11	p1737	N84-21332
	11	p1738	N84-21339
	12	p1794	N84-21696
	12	p1802	N84-21750
	12	p1808	N84-21786
	12	p1813	N84-21820
	12	p1817	N84-21843
	12	p1823	N84-21884
	12	p1827	N84-21908
	12	p1848	N84-22044
	12	p1870	N84-22183
	12	p1884	N84-22279
	12	p1884	N84-22282
	12	p1895	N84-22343

12 p1908 N84-22433
12 p1911 N84-22449
12 p1919 N84-22504
12 p1920 N84-22507
13 p1954 N84-22705
13 p1954 N84-22706
13 p1996 N84-22954
13 p1997 N84-22962
13 p1998 N84-22964
13 p2043 N84-23259
13 p2044 N84-23260
14 p2142 N84-23848
14 p2149 N84-23872
14 p2151 N84-23887
14 p2225 N84-24354
15 p2258 N84-24562
15 p2298 N84-24793
15 p2304 N84-24826
15 p2304 N84-24827
15 p2322 N84-24940
15 p2337 N84-25033
15 p2339 N84-25036
15 p2344 N84-25069
15 p2344 N84-25070
15 p2365 N84-25188
15 p2395 N84-25367
15 p2395 N84-25368
15 p2395 N84-25369
15 p2399 N84-25396
15 p2418 N84-25523
15 p2421 N84-25539
17 p2781 N84-27656
18 p2847 N84-28078
18 p2847 N84-28079
18 p2847 N84-28080
18 p2878 N84-28272
18 p2925 N84-28550
18 p2933 N84-28603
19 p2986 N84-28920
19 p3009 N84-29073
19 p3027 N84-29200
19 p3027 N84-29201
19 p3028 N84-29203
19 p3030 N84-29215
19 p3030 N84-29216
19 p3079 N84-29538
19 p3080 N84-29546
19 p3106 N84-29738
19 p3108 N84-29746
19 p3108 N84-29747
19 p3109 N84-29752
20 p3149 N84-29996
20 p3154 N84-30026
20 p3156 N84-30041
20 p3156 N84-30045
20 p3157 N84-30047 W-7405-ENG-82 01
20 p3166 N84-30104 02
20 p3166 N84-30107 02
20 p3168 N84-30113 02
20 p3170 N84-30132 02
20 p3175 N84-30162 03
20 p3175 N84-30164 03
20 p3179 N84-30197 03
20 p3186 N84-30244 03
20 p3187 N84-30247 03
20 p3190 N84-30267 03
20 p3193 N84-30282 03
20 p3194 N84-30283 03
20 p3194 N84-30288 03
20 p3198 N84-30312 03
20 p3203 N84-30344 03
20 p3241 N84-30577 03
20 p3242 N84-30581 03
20 p3243 N84-30587 03
20 p3247 N84-30608 03
20 p3266 N84-30720 03
20 p3267 N84-30727 04
20 p3267 N84-30729 04
20 p3267 N84-30731 04
20 p3267 N84-30732 04
20 p3273 N84-30779 04
20 p3275 N84-30789 04
20 p3277 N84-30805 06
20 p3278 N84-30806 07
20 p3278 N84-30807 08
20 p3282 N84-30835 14
20 p3293 N84-30909 15
20 p3293 N84-30910 15
20 p3295 N84-30921 20
20 p3297 N84-30932 20
20 p3305 N84-30991 20
20 p3309 N84-31018 20
20 p3310 N84-31021 20
20 p3310 N84-31023 21
20 p3319 N84-31071 21
21 p3345 N84-31223 22
21 p3357 N84-31295
21 p3358 N84-31296
21 p3362 N84-31326
21 p3366 N84-31354 W-7405-ENG-92 20
21 p3367 N84-31358 W-7405-3NG-82 21
21 p3371 N84-31388 W-47505-ENG-48 03
21 p3371 N84-31390 WDN-S 13
21 p3371 N84-31391 WF11100000 01
21 p3371 N84-31393 WF12100000 01
21 p3372 N84-31394 WF41460000 02
21 p3387 N84-31496 WO04-77 08
21 p3388 N84-31500 WR0-2101 20
21 p3393 N84-31532 WR0-2204 13
21 p3393 N84-31534 WR02303001 01
21 p3400 N84-31571 W05-13 19
21 p3401 N84-31575 W05-98 08
21 p3401 N84-31578 W12-53 14
21 p3410 N84-31625 W33-59 23
21 p3410 N84-31627 W0584 05
21 p3410 N84-31628 W1100 13
21 p3410 N84-31631 W1253 08
21 p3462 N84-31951 XF62581 09
21 p3462 N84-31952 XF12141000 01
21 p3466 N84-31979 XF12143091 01
21 p3495 N84-32146 XR0-2102 19
21 p3502 N84-32194 XR01405600 06
21 p3502 N84-32195 X07-92 13
22 p3548 N84-32463 X99-QAXV 13
22 p3549 N84-32467 X99QAXV 05
22 p3561 N84-32548 X0792 14
22 p3578 N84-32663 X10830 06
22 p3578 N84-32664 Y09-9501 22
22 p3588 N84-32723 Y99-QAXS 09
22 p3588 N84-32728 09
22 p3595 N84-32768 21
22 p3600 N84-32801 Y0995-01-004-310 05
22 p3601 N84-32814 ZA/WF/WRK-275/4-7.12 09
22 p3601 N84-32815 ZA/WF/WRK-275/4-7.15 09
22 p3602 N84-32816 ZF66512001 01
22 p3606 N84-32844 ZR0-230 20
22 p3606 N84-32845 ZR0-0001 13
22 p3626 N84-32975 14
22 p3642 N84-33091 20
22 p3643 N84-33099 22
22 p3660 N84-33201 ZR0-2302 10
23 p3715 N84-33550 ZR00001 05
23 p3725 N84-33606 06
23 p3751 N84-33779 ZR02204 09
23 p3755 N84-33803 ZR0000101 05
23 p3755 N84-33804 ZR00001179 06
23 p3757 N84-33815 Z08-29 24
23 p3823 N84-34243 Z08-2901 22
23 p3828 N84-34284 Z0829 12
23 p3829 N84-34285 Z1259 09
24 p3899 N84-34690 005-10-01 22
p0097 N84-10633 023-10-01-01 18
p0188 N84-11225 023-22-00-56-00 04
p0196 N84-11271 141-20-11 05
p0232 N84-11525 141-20-14 23
p0291 N84-11910 141-20-14-01-00 12
p0333 N84-12167 141-20-21-04-00 07
p0347 N84-12252 146-40-05-05 08
p0347 N84-12259 146-72-04 18
p0350 N84-12273 147-44-02 20
p0351 N84-12280 153-03-60-01 04
p0351 N84-12282 154-10-80-18 04
p0355 N84-12307 159-41-01 21
p0362 N84-12353 159-41-01-01-00 11
p0385 N84-12512 159-41-01-02-00 18
p0386 N84-12513 161-10-08-01-00 12
p0390 N84-12547 161-20-07-40 07
p0431 N84-12824 176-20-09-70 18
p0431 N84-12825 176-20-10-30 04
p0431 N84-12827 179-10-10 17
p0437 N84-12864 179-70-62 04
p0442 N84-12903 179-80-51 23
p0455 N84-12997 179-80-70 07
p0546 N84-13598 186-30-03 18
p0546 N84-13599 186-30-03-11 07
p0550 N84-13621 07
p0595 N84-13928 07
p0596 N84-13930 07
p0811 N84-15279 188-41-23-01 12
p0924 N84-16010 188-41-57-02 07
p1014 N84-16575 188-41-57-02-00 22
p1221 N84-17971 199-20-74-03 07
p2129 N84-23762 199-20-76 23
p2299 N84-24798 199-20-76-01 07
p2406 N84-25440 08
p3155 N84-30037 12
p3156 N84-30042 199-20-96-01 21
p3158 N84-30054 199-30-36-02 20
p3203 N84-30347 199-50-62-01 12
p3360 N84-31316 199-60-22-06 10
p3505 N84-32212 199-89-00 18
p3607 N84-32852 199-99-00 20
22 p3659 N84-33194
22 p3664 N84-33231
23 p3751 N84-33780
20 p3296 N84-30941
21 p3423 N84-31712
03 p0454 N84-12988
13 p1990 N84-22919
01 p0065 N84-10427
01 p0065 N84-10425
02 p0229 N84-11503
08 p1212 N84-17906
20 p3173 N84-30149
13 p1954 N84-22703
01 p0032 N84-10201
19 p3059 N84-29407
08 p1212 N84-17908
14 p2142 N84-23842
23 p3693 N84-33404
05 p0715 N84-14687
13 p1928 N84-22545
08 p1145 N84-17453
09 p1310 N84-18562
01 p0065 N84-10425
01 p0133 N84-10869
19 p3013 N84-29102
06 p0829 N84-15396
13 p2033 N84-23187
13 p1986 N84-22894
05 p0643 N84-14232
14 p2139 N84-23827
06 p0823 N84-15364
22 p3560 N84-32543
09 p1315 N84-18594
09 p1315 N84-18596
21 p3400 N84-31567
05 p0689 N84-14527
09 p1262 N84-18238
09 p1262 N84-18239
01 p0116 N84-10750
20 p3184 N84-30231
13 p2001 N84-22985
14 p2185 N84-24091
20 p3152 N84-30018
22 p3604 N84-32831
10 p1422 N84-19296
05 p0733 N84-14816
06 p0824 N84-15374
09 p1276 N84-18328
05 p0740 N84-14858
06 p0900 N84-15843
24 p3947 N84-34998
22 p3618 N84-32923
12 p1774 N84-21565
09 p1253 N84-18178
22 p3673 N84-33285
18 p2788 N84-27694
04 p0543 N84-13576
05 p0761 N84-14990
23 p3810 N84-34161
12 p1765 N84-21515
07 p1033 N84-16704
08 p1194 N84-17784
18 p2845 N84-28067
20 p3240 N84-30566
04 p0621 N84-14096
04 p0621 N84-14096
21 p3524 N84-32328
11 p1757 N84-21471
18 p2950 N84-28709
12 p1863 N84-22138
07 p1040 N84-16744
18 p2855 N84-28131
04 p0562 N84-13706
17 p2623 N84-26787
04 p0488 N84-13207
23 p3713 N84-33536
07 p1079 N84-17017
18 p2801 N84-27779
07 p1091 N84-17096
07 p1091 N84-17097
07 p1091 N84-17098
07 p1091 N84-17099
12 p1921 N84-22515
07 p1027 N84-16656
22 p3546 N84-32448
07 p1047 N84-16791
23 p3700 N84-33453
07 p1074 N84-16977
08 p1231 N84-18044
12 p1903 N84-22396
21 p3346 N84-31226
20 p3256 N84-30665
12 p1869 N84-22178
10 p1545 N84-20125
18 p2899 N84-28392
20 p3259 N84-30684

199-99-00-00-72	21	p3457	N84-31935
307-03-01	07	p1000	N84-16486
307-04-02	16	p2484	N84-25927
311-03-51	12	p1879	N84-22245
323-51-41	18	p2929	N84-28576
323-51-41-00-00	12	p1901	N84-22380
324-01-00	21	p3490	N84-32119
324-01-16	17	p2671	N84-27025
352-02-03	15	p2424	N84-25562
	16	p2574	N84-26518
	16	p2574	N84-26521
	16	p2574	N84-26522
	16	p2574	N84-26523
	16	p2575	N84-26524
	16	p2575	N84-26525
	16	p2575	N84-26526
	17	p2774	N84-27616
	23	p3838	N84-34348
	23	p3840	N84-34359
422-50-06	12	p1907	N84-22423
423-30-01	22	p3593	N84-32752
424-20-01	10	p1501	N84-19813
490-02-02	18	p2920	N84-28515
490-02-02-77-00	18	p2920	N84-28516
	19	p3073	N84-29501
500-40-62	15	p2331	N84-24999
501-53-43-01	19	p2962	N84-28894
503-31-83-01	21	p3470	N84-31993
505-01-34-03	02	p0189	N84-11230
505-02-21	19	p2965	N84-28792
505-04-1A	21	p3398	N84-31558
505-07-10	22	p3537	N84-32394
505-08-22	12	p1917	N84-22488
505-21-11	11	p1656	N84-20807
505-21-21	09	p1312	N84-18571
505-24-11	14	p2221	N84-24327
	15	p2403	N84-25426
505-31-0A	05	p0626	N84-14120
505-31-0A	08	p1098	N84-17138
	16	p2485	N84-25941
505-31-1B	24	p3888	N84-34619
505-31-3A	07	p0953	N84-16180
	13	p1926	N84-22533
505-31-3B	04	p0594	N84-13922
	11	p1728	N84-21275
	13	p2040	N84-23235
	19	p2965	N84-28790
	21	p3325	N84-31096
	21	p3491	N84-32122
	23	p3821	N84-34231
505-31-01	01	p0076	N84-10498
	05	p0679	N84-14464
	06	p0781	N84-15114
	07	p0946	N84-16139
	10	p1432	N84-19362
	13	p1926	N84-22535
	14	p2100	N84-23605
	16	p2439	N84-25648
	17	p2600	N84-26664
	17	p2600	N84-26666
	18	p2792	N84-27718
	19	p2958	N84-28745
	19	p2958	N84-28746
	19	p3020	N84-29148
	20	p3183	N84-30225
	21	p3324	N84-31089
	21	p3324	N84-31092
	21	p3324	N84-31093
	22	p3530	N84-32350
	22	p3644	N84-33106
	23	p3689	N84-33383
	24	p3950	N84-35009
505-31-01-01	12	p1815	N84-21831
	12	p1893	N84-22328
	14	p2211	N84-24276
	21	p3324	N84-31094
505-31-01-01-00	22	p3593	N84-32753
505-31-02	15	p2255	N84-24539
505-31-02B	04	p0532	N84-13494
	05	p0679	N84-14462
505-31-03-01	08	p1096	N84-17127
505-31-08	16	p2486	N84-25946
	22	p3530	N84-32351
505-31-11	11	p1600	N84-20478
505-31-13-01	18	p2786	N84-27682
505-31-13-05	04	p0532	N84-13500
	08	p1157	N84-17534
	16	p2486	N84-25944
505-31-17	13	p1989	N84-22913
505-31-21	01	p0008	N84-10049
	05	p0627	N84-14122
	07	p0952	N84-16176
	08	p1099	N84-17144
	08	p1115	N84-17250
	10	p1552	N84-20174
	11	p1606	N84-20514
	14	p2100	N84-23606
	22	p3535	N84-32384
	24	p3852	N84-34428
	24	p3852	N84-34429
	24	p3852	N84-34430
505-31-23	18	p2836	N84-28002
	19	p2958	N84-28748
	23	p3688	N84-33377
505-31-23-03	11	p1651	N84-20781
505-31-23-06	07	p0946	N84-16140
	11	p1601	N84-20487
	18	p2785	N84-27675
505-31-23-07	01	p0002	N84-10017
	04	p0480	N84-13160
505-31-23-08	04	p0480	N84-13161
	08	p1097	N84-17132
505-31-23-10	13	p1988	N84-22906
	17	p2600	N84-26665
505-31-31	19	p3096	N84-29661
505-31-32	02	p0287	N84-11883
	02	p0287	N84-11885
	04	p0595	N84-13924
	05	p0742	N84-14874
	06	p0907	N84-15894
	07	p1069	N84-16946
	09	p1386	N84-19049
	10	p1575	N84-20320
	21	p3398	N84-31554
505-31-33	19	p2957	N84-28743
	23	p3690	N84-33386
505-31-33-12	15	p2403	N84-25422
505-31-33-13	11	p1729	N84-21277
	12	p1898	N84-22363
	17	p2762	N84-27543
505-31-38	21	p3490	N84-32118
505-31-42	01	p0009	N84-10054
	04	p0485	N84-13187
	04	p0485	N84-13188
	04	p0485	N84-13189
	05	p0630	N84-14143
	05	p0631	N84-14145
	05	p0631	N84-14146
	07	p0947	N84-16142
	07	p1001	N84-16494
	08	p1098	N84-17142
	08	p1139	N84-17410
	09	p1289	N84-18418
	09	p1290	N84-18419
	12	p1815	N84-21832
	13	p1989	N84-22909
	13	p1989	N84-22911
	14	p2109	N84-23649
	16	p2439	N84-25647
	18	p2820	N84-27908
	19	p3021	N84-29157
	20	p3130	N84-29877
	21	p3405	N84-31595
	22	p3546	N84-32446
	22	p3561	N84-32552
	23	p3694	N84-33412
	23	p3726	N84-33608
505-31-43	19	p3073	N84-29500
	23	p3690	N84-33387
505-31-44	11	p1605	N84-20512
505-31-51	07	p0947	N84-16144
	07	p1007	N84-16526
	07	p1007	N84-16530
	11	p1607	N84-20521
	19	p2958	N84-28750
	22	p3535	N84-32379
505-31-52	07	p1001	N84-16493
	12	p1818	N84-21849
	16	p2495	N84-26010
505-31-53	14	p2148	N84-23865
	16	p2439	N84-25645
	20	p3132	N84-29888
	20	p3152	N84-30014
	22	p3538	N84-32397
	23	p3689	N84-33382
505-31-53-08	10	p1439	N84-19393
	21	p3325	N84-31097
505-31-53-09	02	p0222	N84-11457
	02	p0222	N84-11458
	18	p2919	N84-28513
505-31-53-10	03	p0338	N84-12192
	04	p0480	N84-13162
	08	p1097	N84-17136
	10	p1420	N84-19287
	11	p1602	N84-20494
	13	p1926	N84-22534
	17	p2610	N84-26708
	18	p2785	N84-27678
	23	p3690	N84-33385
505-31-53-11	14	p2127	N84-23750
	19	p2993	N84-28964
505-31-53-13	15	p2405	N84-25433
505-31-83	20	p3126	N84-29852
	20	p3135	N84-29903
	20	p3277	N84-30800
	20	p3279	N84-30816
	20	p3279	N84-30817
	20	p3280	N84-30818
	22	p3530	N84-32349
	22	p3633	N84-33024
	22	p3645	N84-33107
	22	p3645	N84-33113
	23	p3817	N84-34204
505-31-83-01	19	p3021	N84-29158
	19	p3082	N84-29558
	21	p3469	N84-31988
	22	p3637	N84-33059
	22	p3645	N84-33108
	22	p3645	N84-33111
	22	p3645	N84-33112
505-31-83-02	02	p0271	N84-11774
	08	p1211	N84-17900
	12	p1869	N84-22179
505-31-5352	21	p3498	N84-32169
505-32-2A	20	p3130	N84-29875
505-32-2B	12	p1814	N84-21828
505-32-4A	14	p2131	N84-23775
505-32-6A	23	p3694	N84-33414
505-32-6B	04	p0477	N84-13140
	07	p0954	N84-16184
	15	p2262	N84-24585
505-32-01	13	p1925	N84-22527
505-32-02	16	p2554	N84-26384
505-32-03-01	01	p0139	N84-10913
505-32-21	22	p3531	N84-32356
505-32-22	05	p0692	N84-14542
	19	p2966	N84-28795
505-32-32	13	p1932	N84-22565
	16	p2450	N84-25710
505-32-42	05	p0652	N84-14288
505-32-52	08	p1157	N84-17533
	08	p1166	N84-17590
505-33-1A	04	p0498	N84-13264
	05	p0852	N84-14287
	07	p0974	N84-16311
	08	p1131	N84-17353
	08	p1131	N84-17354
	10	p1458	N84-19523
	10	p1490	N84-19741
	14	p2118	N84-23693
	15	p2295	N84-24772
	16	p2470	N84-25830
	17	p2622	N84-26783
	18	p2813	N84-27858
	18	p2813	N84-27859
	19	p2965	N84-28917
	19	p2992	N84-28958
	21	p3365	N84-31345
	22	p3554	N84-32504
	24	p3878	N84-34575
505-33-1B	02	p0199	N84-11296
	08	p1166	N84-17591
	08	p1166	N84-17592
	10	p1465	N84-19567
	10	p1502	N84-19816
	14	p2129	N84-23764
	15	p2301	N84-24808
	16	p2470	N84-25831
	24	p3888	N84-34620
505-33-5A	15	p2343	N84-25064
	15	p2343	N84-25065
	19	p2997	N84-28990
505-33-5B	13	p1954	N84-22702
	15	p2284	N84-24712
	16	p2460	N84-25770
	17	p2618	N84-26756
	18	p2809	N84-27831
	18	p2809	N84-27832
	21	p3356	N84-31288
	24	p3878	N84-34576
505-33-12	09	p1330	N84-18683
	12	p1826	N84-21904
	17	p2622	N84-26785
505-33-13-01	16	p2464	N84-25794
505-33-21	02	p0193	N84-11255
	02	p0193	N84-11256
	02	p0193	N84-11257
	17	p2617	N84-26750
	21	p3356	N84-31289
	21	p3357	N84-31291
	22	p3544	N84-32438
505-33-22	01	p0094	N84-10612
	02	p0231	N84-11512
	02	p0231	N84-11513
	05	p0691	N84-14541
	08	p1130	N84-17350
	10	p1516	N84-19925
	11	p1633	N84-20674

	11	p1667	N84-20878
	13	p1960	N84-22735
	13	p2001	N84-22980
	19	p3034	N84-29248
	21	p3365	N84-31348
	21	p3419	N84-31687
	23	p3717	N84-33564
	24	p3912	N84-34774
505-33-23	20	p3201	N84-30330
505-33-23-02	03	p0388	N84-12529
	13	p2000	N84-22979
	14	p2157	N84-23925
	19	p3035	N84-29249
	19	p3035	N84-29251
	23	p3760	N84-33834
505-33-31	07	p0966	N84-16257
505-33-32	02	p0189	N84-11228
	12	p1789	N84-21666
	17	p2617	N84-26749
505-33-33	12	p1777	N84-21598
	20	p3145	N84-29968
	21	p3419	N84-31686
	22	p3544	N84-32435
	23	p3711	N84-33523
505-33-33-01	12	p1789	N84-21667
	23	p3724	N84-33596
505-33-33-02	07	p0978	N84-16338
505-33-33-05	06	p0798	N84-15200
	06	p0798	N84-15201
	10	p1464	N84-19565
	18	p2809	N84-27833
	20	p3201	N84-30331
	22	p3544	N84-32436
	22	p3544	N84-32439
505-33-33-06	12	p1826	N84-21902
505-33-33-07	10	p1516	N84-19924
505-33-33-09	04	p0505	N84-13309
	07	p0978	N84-16339
505-33-42	04	p0548	N84-13610
	07	p1015	N84-16587
	07	p1015	N84-16588
	20	p3200	N84-30329
505-33-43	22	p3530	N84-32353
505-33-43-07	08	p1097	N84-17135
	14	p2157	N84-23924
	22	p3530	N84-32348
	24	p3854	N84-34439
505-33-43-09	01	p0083	N84-10538
	04	p0479	N84-13150
	11	p1600	N84-20480
	11	p1601	N84-20485
	12	p1765	N84-21513
	19	p2958	N84-28747
505-33-43-13	02	p0277	N84-11815
	21	p3419	N84-31684
505-33-52	01	p0048	N84-10310
	03	p0418	N84-12730
	04	p0491	N84-13224
	07	p0953	N84-16181
	07	p0954	N84-16186
	07	p1001	N84-16492
	12	p1801	N84-21740
	15	p2260	N84-24578
505-33-53	01	p0139	N84-10910
	02	p0287	N84-11882
	16	p2495	N84-26007
	19	p2962	N84-28775
	20	p3290	N84-30888
505-33-53-03	07	p1069	N84-16947
	09	p1386	N84-19052
505-33-53-05	01	p0094	N84-10611
	03	p0388	N84-12531
	12	p1826	N84-21901
505-33-53-09	08	p1103	N84-17175
505-33-53-10	21	p3464	N84-31959
505-33-53-11	09	p1329	N84-18675
505-33-53-12	07	p1016	N84-16591
505-33-53-14	02	p0223	N84-11460
	08	p1161	N84-17560
505-33-54	04	p0487	N84-13197
	08	p1103	N84-17173
	08	p1103	N84-17174
505-33-58	17	p2618	N84-26755
505-33-63	18	p2920	N84-28518
505-33-63-002	18	p2920	N84-28517
505-33-90	22	p3544	N84-32437
505-33-90-01	18	p2809	N84-27834
505-34-01	11	p1615	N84-20566
	21	p3328	N84-31112
505-34-01B	04	p0485	N84-13190
505-34-02	02	p0180	N84-11171
	12	p1771	N84-21548
	16	p2569	N84-26484
505-34-03-02	07	p1016	N84-16590
	08	p1105	N84-17186
	16	p2451	N84-25717
505-34-03-03	03	p0337	N84-12190
505-34-03-05	08	p1105	N84-17185
	20	p3131	N84-29883
505-34-06	07	p1057	N84-16843
505-34-11	02	p0176	N84-11157
	02	p0180	N84-11176
	13	p1935	N84-22585
	16	p2451	N84-25716
	22	p3537	N84-32393
505-34-13	06	p0908	N84-15898
	12	p1876	N84-22227
	17	p2733	N84-27374
	20	p3277	N84-30801
	23	p3692	N84-33396
	23	p3816	N84-34198
	23	p3817	N84-34199
505-34-13-10	09	p1257	N84-18206
505-34-13-30	11	p1615	N84-20567
	17	p2749	N84-27448
	18	p2920	N84-28514
	19	p3093	N84-29640
505-34-13-34	17	p2733	N84-27376
505-34-13-53	19	p3003	N84-29035
505-34-13-57	02	p0167	N84-11099
505-34-33-05	17	p2751	N84-27461
505-34-43-05	01	p0118	N84-10765
505-35-01	06	p0784	N84-15135
505-35-11	23	p3810	N84-34160
505-35-13	09	p1386	N84-19051
505-35-13-04	21	p3326	N84-31104
505-35-13-05	12	p1770	N84-21542
505-35-13-06	16	p2537	N84-26291
505-35-13-20	12	p1866	N84-22162
	21	p3491	N84-32124
505-35-21	19	p3070	N84-29478
505-35-23-10	07	p0953	N84-16178
505-35-23-30	04	p0484	N84-13182
505-35-23-31	03	p0311	N84-12029
505-35-31	07	p1049	N84-16795
	19	p3067	N84-29456
505-35-33	16	p2448	N84-25701
	16	p2539	N84-26298
505-35-33-01	09	p1255	N84-18189
505-35-73-02	07	p0959	N84-16215
505-36-12	02	p0189	N84-11229
	07	p1074	N84-16984
505-36-21	04	p0480	N84-13157
	12	p1771	N84-21551
	15	p2264	N84-24593
	18	p2793	N84-27724
505-36-22	16	p2486	N84-25943
	21	p3324	N84-31091
505-37-01	19	p3080	N84-29544
505-37-03	16	p2546	N84-26340
505-37-23-01	18	p2917	N84-28495
505-37-33-01	19	p3080	N84-29543
505-37-33-02	12	p1889	N84-22299
	19	p3080	N84-29545
505-40-1A	08	p1098	N84-17143
	22	p3531	N84-32357
505-40-1B	10	p1498	N84-19787
505-40-4K	21	p3325	N84-31095
505-40-5A	05	p0752	N84-14932
	11	p1614	N84-20562
	13	p1932	N84-22566
	20	p3183	N84-30224
505-40-5B	03	p0333	N84-12166
	07	p0954	N84-16185
	07	p1052	N84-16812
	10	p1566	N84-20258
	10	p1566	N84-20259
	18	p2450	N84-25712
505-40-02	05	p0631	N84-14147
	08	p1156	N84-17525
	09	p1312	N84-18572
505-40-12C	20	p3130	N84-29876
505-40-22	07	p0943	N84-16119
	13	p1989	N84-22910
	15	p2261	N84-24584
	15	p2262	N84-24589
	20	p3183	N84-30223
505-40-32	21	p3446	N84-31865
	22	p3529	N84-32344
505-40-42	02	p0229	N84-11500
	09	p1325	N84-18654
	16	p2433	N84-25605
	16	p2433	N84-25606
	16	p2498	N84-26027
	16	p2498	N84-26029
	17	p2675	N84-27041
	17	p2675	N84-27042
	17	p2675	N84-27043
	18	p2849	N84-28087
	18	p2849	N84-28088
	19	p3031	N84-29223
	19	p3031	N84-29224
	19	p3031	N84-29226
	20	p3195	N84-30293
505-40-62	05	p0627	N84-14121
	05	p0688	N84-14519
	15	p2261	N84-24583
	15	p2335	N84-25017
505-40-62B	07	p0997	N84-16461
505-40-82	04	p0578	N84-13812
	15	p2261	N84-24581
	15	p2261	N84-24582
505-42-01	08	p1239	N84-18102
505-42-11	01	p0003	N84-10018
	01	p0012	N84-10079
	02	p0174	N84-11143
	07	p0947	N84-16143
	10	p1427	N84-19333
	10	p1553	N84-20176
	13	p1931	N84-22558
	14	p2110	N84-23653
	14	p2111	N84-23655
	16	p2438	N84-25642
	17	p2606	N84-26693
	17	p2618	N84-26753
	20	p3290	N84-30687
	21	p3324	N84-31090
	22	p3535	N84-32380
	23	p3689	N84-33378
505-42-13	23	p3760	N84-33832
505-42-21	15	p2254	N84-24537
505-42-23	20	p3128	N84-29864
505-42-23-03	24	p3879	N84-34577
505-42-23-05	01	p0094	N84-10609
	01	p0094	N84-10610
505-42-23-07	04	p0594	N84-13923
505-42-23-09	06	p0781	N84-15117
	18	p2852	N84-28112
505-42-51	21	p3344	N84-31216
505-42-62	14	p2109	N84-23648
505-43-01	01	p0003	N84-10021
	01	p0004	N84-10024
	07	p0947	N84-16147
	13	p1926	N84-22532
	13	p1926	N84-22536
	13	p1935	N84-22584
	14	p2104	N84-23622
	15	p2253	N84-24528
	17	p2600	N84-26662
	17	p2600	N84-26663
	18	p2788	N84-27693
	19	p2956	N84-28737
	19	p2956	N84-28738
	19	p2961	N84-28767
	24	p3900	N84-34695
505-43-02	07	p0946	N84-16141
	11	p1602	N84-20493
	15	p2261	N84-24579
505-43-03-01	04	p0482	N84-13172
505-43-11	01	p0003	N84-10019
	07	p0958	N84-16213
	20	p3131	N84-29884
505-43-12	11	p1601	N84-20490
505-43-13-01	08	p1105	N84-17184
	14	p2110	N84-23654
	16	p2438	N84-25641
505-43-23-01	04	p0479	N84-13152
	04	p0481	N84-13165
	09	p1251	N84-18165
505-43-23-02	08	p1097	N84-17134
	11	p1601	N84-20486
	18	p2785	N84-27676
505-43-23-03	09	p1250	N84-18163
	18	p2788	N84-27696
505-43-23-04	04	p0481	N84-13163
	09	p1251	N84-18164
505-43-23-06	09	p1250	N84-18161
	17	p2600	N84-26667
505-43-23-10	04	p0481	N84-13164
505-43-31	06	p0858	N84-15588
505-43-43-01	02	p0174	N84-11145
	04	p0477	N84-13138
	04	p0477	N84-13139
	06	p0786	N84-15145
	13	p1930	N84-22553
	14	p2104	N84-23621
	16	p2486	N84-25947
	17	p2600	N84-26668
	18	p2785	N84-27679
	18	p2792	N84-27719
	18	p2954	N84-28725
	19	p2963	N84-28779
	20	p3125	N84-29847
505-43-43-04	01	p0004	N84-10025
	21	p3364	N84-31343
505-43-43-05	09	p1250	N84-18162
505-43-83-03	14	p2110	N84-23650

505-43-90 22 p3531 N84-32354
505-43-93-07 15 p2254 N84-24538
505-44-21 01 p0006 N84-10037
18 p2817 N84-27888
505-44-22 09 p1348 N84-18806
505-45-1A 08 p1098 N84-17139
20 p3129 N84-29870
505-45-01 05 p0628 N84-14129
505-45-02 04 p0531 N84-13490
07 p0947 N84-16145
07 p0947 N84-16146
16 p2439 N84-25846
505-45-11 10 p1451 N84-19475
20 p3127 N84-29857
22 p3543 N84-32431
505-45-12 05 p0679 N84-14463
505-45-13-01 18 p2785 N84-27677
22 p3532 N84-32365
505-45-14 22 p3534 N84-32378
24 p3912 N84-34773
505-45-23-01 22 p3603 N84-32827
505-45-33 20 p3129 N84-29871
505-45-33-06 11 p1604 N84-20505
505-45-33-12-00 11 p1646 N84-20759
505-45-41 19 p3099 N84-29686
505-45-43 23 p3689 N84-33379
505-45-43-01 12 p1769 N84-21539
505-45-43-02 11 p1600 N84-20482
11 p1602 N84-20491
17 p2599 N84-26660
505-45-63 05 p0625 N84-14110
505-45-63-35 24 p3923 N84-34828
505-51-11 12 p1815 N84-21833
505-51-11-06 18 p2785 N84-27680
505-53-1A 22 p3606 N84-32849
505-53-1B 01 p0141 N84-10923
505-53-12 05 p0689 N84-14526
505-54-11 15 p2336 N84-25020
505-55-42 21 p3433 N84-31782
505-55-72 18 p2807 N84-27824
505-424A 17 p2628 N84-26813
506-17-22 01 p0077 N84-10504
506-51-11 09 p1312 N84-18573
506-51-13 07 p1036 N84-16721
506-51-13-02 06 p0795 N84-15179
506-51-13-06 01 p0018 N84-10115
01 p0023 N84-10144
18 p2802 N84-27786
20 p3133 N84-29897
506-51-13-07 14 p2110 N84-23652
506-51-23-03 21 p3399 N84-31561
506-51-33-01 22 p3540 N84-32410
506-52-42 11 p1625 N84-20634
506-52-49 03 p0346 N84-12248
506-52-62 05 p0689 N84-14525
506-53-1A 06 p0854 N84-15565
08 p1168 N84-17606
24 p3911 N84-34769
506-53-1B 02 p0193 N84-11254
02 p0199 N84-11295
07 p0977 N84-16334
07 p0985 N84-16380
08 p1130 N84-17352
08 p1222 N84-17982
09 p1286 N84-18399
10 p1465 N84-19566
11 p1632 N84-20673
11 p1664 N84-20858
11 p1736 N84-21329
11 p1737 N84-21330
12 p1797 N84-21719
12 p1800 N84-21739
16 p2460 N84-25766
18 p2813 N84-27857
18 p2817 N84-27887
19 p2997 N84-28994
20 p3161 N84-30072
21 p3365 N84-31349
21 p3369 N84-31379
21 p3413 N84-31640
22 p3555 N84-32508
22 p3558 N84-32531
22 p3559 N84-32536
22 p3603 N84-32825
23 p3723 N84-33590
506-53-11 22 p3554 N84-32502
506-53-12 09 p1324 N84-18653
506-53-12B 12 p1797 N84-21721
506-53-18 05 p0652 N84-14289
506-53-23 12 p1867 N84-22169
22 p3611 N84-32877
506-53-23-03 19 p3070 N84-29479
506-53-23-05 02 p0188 N84-11219
21 p3357 N84-31290
506-53-23-06 02 p0188 N84-11220
505-53-31 14 p2113 N84-23665
21 p3356 N84-31285
23 p3723 N84-33592
506-53-31-05 07 p1007 N84-16527
506-53-33 22 p3554 N84-32506
22 p3555 N84-32507
506-53-33-01 22 p3554 N84-32505
506-53-33-04 07 p0974 N84-16312
16 p2454 N84-25733
17 p2615 N84-26739
506-53-43 12 p1779 N84-21608
16 p2501 N84-26053
506-53-43-01 04 p0548 N84-13608
10 p1439 N84-19395
11 p1623 N84-20626
16 p2458 N84-25758
17 p2679 N84-27066
20 p3200 N84-30328
506-53-43-02 04 p0548 N84-13614
506-53-43-12 07 p0992 N84-16427
506-53-53 03 p0370 N84-12412
506-53-53-05 21 p3399 N84-31560
506-53-53-07 11 p1668 N84-20880
13 p1988 N84-22907
17 p2616 N84-26741
506-53-64 09 p1330 N84-18685
506-53-113 08 p1130 N84-17351
506-54-1A 20 p3192 N84-30273
506-54-13-20 12 p1904 N84-22402
506-54-21 18 p2836 N84-27999
18 p2836 N84-28001
20 p3183 N84-30226
24 p3902 N84-34708
506-54-23 23 p3741 N84-33714
506-54-23-10 07 p0997 N84-16462
506-54-23-20 16 p2552 N84-26373
506-54-26 22 p3581 N84-32679
506-54-63-01 04 p0585 N84-13866
18 p2923 N84-28539
506-55-13-01 08 p1163 N84-17575
506-55-22 02 p0186 N84-11206
07 p0961 N84-16229
10 p1450 N84-19467
18 p2808 N84-27825
506-55-23-03 11 p1760 N84-21485
506-55-24 21 p3355 N84-31283
506-55-28 23 p3701 N84-33462
506-55-42 11 p1673 N84-20916
13 p1985 N84-22890
13 p2008 N84-23027
17 p2616 N84-26746
19 p3043 N84-29307
21 p3354 N84-31272
21 p3390 N84-31513
22 p3542 N84-32426
22 p3543 N84-32427
506-55-45 12 p1779 N84-21609
506-55-52 13 p1955 N84-22712
13 p2008 N84-23022
13 p2008 N84-23023
13 p2008 N84-23024
13 p2008 N84-23025
13 p2008 N84-23026
20 p3234 N84-30528
506-55-62 12 p1921 N84-22512
506-55-72 07 p0964 N84-16247
09 p1272 N84-18310
10 p1587 N84-20404
11 p1625 N84-20639
13 p1940 N84-22615
13 p1986 N84-22891
13 p1986 N84-22892
14 p2118 N84-23690
15 p2283 N84-24708
17 p2626 N84-26803
21 p3390 N84-31512
23 p3700 N84-33452
506-55-73-01 14 p2150 N84-23676
506-56-73-01 21 p3408 N84-31617
506-57-13-01 14 p2115 N84-23675
17 p2679 N84-27065
18 p2923 N84-28538
506-57-13-02 01 p0027 N84-10173
506-57-13-03 22 p3542 N84-32423
506-57-13-10 03 p0343 N84-12228
506-58-13 22 p3597 N84-32784
506-58-13-01 02 p0270 N84-11767
506-58-13-03 18 p2832 N84-27977
506-58-22 01 p0069 N84-10451
06 p0829 N84-15394
09 p1286 N84-18400
10 p1485 N84-19708
14 p2141 N84-23841
20 p3173 N84-30147
21 p3382 N84-31460
21 p3382 N84-31461
22 p3597 N84-32783
22 p3598 N84-32789
506-58-23 23 p3730 N84-33641
506-58-23-01 11 p1642 N84-20735
19 p3039 N84-29278
506-60-12 16 p2553 N84-26383
506-60-42 16 p2459 N84-25762
506-61-81 21 p3412 N84-31636
21 p3412 N84-31637
506-62-21 21 p3523 N84-32316
506-62-23-01 19 p2981 N84-28893
506-62-43 21 p3382 N84-31462
506-62-43-01 21 p3382 N84-31463
506-62-43-04 01 p0018 N84-10114
506-62-43-91 08 p1109 N84-17211
506-62-52 04 p0517 N84-13399
12 p1810 N84-21803
506-62-63-01 18 p2836 N84-28000
506-63-23-02 19 p2968 N84-28807
506-63-32-01 02 p0184 N84-11193
506-63-40 05 p0633 N84-14158
11 p1614 N84-20565
506-63-63 23 p3723 N84-33591
506-64-13 09 p1268 N84-18277
506-64-31 08 p1205 N84-17855
08 p1205 N84-17856
08 p1205 N84-17857
510-53-12 06 p0805 N84-15247
510-55-12 22 p3531 N84-32355
532-01-11 01 p0007 N84-10041
10 p1425 N84-19317
14 p2103 N84-23617
15 p2259 N84-24566
16 p2445 N84-25684
21 p3327 N84-31105
21 p3344 N84-31215
532-01-11-01 01 p0007 N84-10042
532-02-21 09 p1257 N84-18203
532-03-11 04 p0483 N84-13176
04 p0483 N84-13177
04 p0483 N84-13178
10 p1427 N84-19334
18 p2788 N84-27695
21 p3328 N84-31111
22 p3535 N84-32381
532-06-11 09 p1255 N84-18190
21 p3345 N84-31219
23 p3692 N84-33401
532-06-13-02 01 p0139 N84-10911
10 p1549 N84-20155
532-06-13-03 08 p1227 N84-18018
19 p3096 N84-29662
533-01-14 18 p2813 N84-27860
533-02-21 05 p0630 N84-14144
15 p2262 N84-24587
15 p2262 N84-24588
20 p3130 N84-29879
23 p3695 N84-33415
533-02-50 02 p0181 N84-11178
533-02-61 05 p0632 N84-14157
06 p0791 N84-15159
533-02-81 05 p0757 N84-14965
07 p0951 N84-16168
533-03-11 12 p1769 N84-21537
18 p2796 N84-27743
20 p3131 N84-29885
533-04-1A 02 p0222 N84-11456
09 p1281 N84-18370
10 p1471 N84-19606
15 p2335 N84-25019
16 p2450 N84-25713
17 p2733 N84-27375
19 p3034 N84-29247
21 p3365 N84-31347
533-04-1C 15 p2301 N84-24809
533-04-1D 13 p1932 N84-22567
533-04-1E 11 p1632 N84-20672
21 p3365 N84-31344
533-042-1A 06 p0790 N84-15156
534-01-13 09 p1249 N84-18154
534-02-13-01 18 p2783 N84-27660
534-02-13-16 02 p0173 N84-11141
04 p0479 N84-13151
18 p2786 N84-27684
534-02-14 18 p2787 N84-27686
534-03-23-07 07 p1015 N84-16585
534-04-13-52 08 p1102 N84-17165
534-04-13-54 03 p0332 N84-12164
21 p3344 N84-31217
21 p3344 N84-31218
534-06-13 20 p3145 N84-29969
534-06-23 09 p1329 N84-18678
23 p3711 N84-33524
534-06-23-03 09 p1275 N84-18325
535-03-12 15 p2403 N84-25425
16 p2433 N84-25607
16 p2553 N84-26382

	20	p3130	N84-29878
	21	p3419	N84-31683
	22	p3652	N84-33147
	23	p3821	N84-34230
535-05-12	13	p1932	N84-22564
	22	p3536	N84-32388
535-06-12	02	p0175	N84-11152
	04	p0508	N84-13332
542-03-12	16	p2457	N84-25753
542-03-30-01	04	p0489	N84-13211
542-04-13-02	15	p2270	N84-24632
542-05-12	14	p2118	N84-23691
543-02-13	19	p2957	N84-28739
555-04-1E	21	p3419	N84-31688
561-85-00-00-72	07	p0953	N84-16182
	16	p2544	N84-26328
605-55-22	13	p1942	N84-22631
618-21-01	07	p0961	N84-16227
619-12-30-03	15	p2370	N84-25219
643-10-01	02	p0208	N84-11360
	20	p3172	N84-30146
643-10-02	10	p1476	N84-19641
644-11-00	07	p1007	N84-16528
	18	p2915	N84-28485
650-60-23	04	p0517	N84-13400
	22	p3575	N84-32644
650-60-26	01	p0062	N84-10405
	16	p2481	N84-25908
677-00-00-03-89	13	p2004	N84-23004
677-11-01	10	p1525	N84-19988
677-21-26	20	p3227	N84-30510
677-42-05	12	p1828	N84-21915
678-12-04-07	24	p3866	N84-34501
678-14-03-03	10	p1576	N84-20325
691-05-01-01-00	07	p1033	N84-16703
691-50-03-01	07	p0992	N84-16428
691-85-00-00-72	21	p3430	N84-31762
742-73-01-14	18	p2784	N84-27667
743-01-12-02	04	p0479	N84-13153
	11	p1600	N84-20479
776-33-41	01	p0102	N84-10661
	01	p0102	N84-10664
	05	p0699	N84-14586
	08	p1149	N84-17479
	17	p2722	N84-27327
	19	p3049	N84-29347
	21	p3491	N84-32120
776-33-41-02	08	p1227	N84-18017
776-52-61	07	p1025	N84-16643
	18	p2868	N84-28210
776-52-61-00-66	18	p2935	N84-28614
776-52-62	18	p2870	N84-28220
	22	p3618	N84-32922
	22	p3675	N84-33299
776-52-63	18	p2833	N84-27981
	18	p2877	N84-28267
776-54-01	16	p2483	N84-25926
	23	p3730	N84-33642
776-72-41	02	p0241	N84-11579
776-81-62	07	p1025	N84-16640
	07	p1025	N84-16644
	18	p2869	N84-28212
	18	p2871	N84-28223
	22	p3617	N84-32917
	22	p3617	N84-32918
776-81-62-03-27	18	p2870	N84-28218
	18	p2871	N84-28224
778-12-01-02-03	18	p2869	N84-28211
778-14-10	21	p3434	N84-31784
	23	p3790	N84-34038
778-16-12	14	p2249	N84-24509
778-17-01	01	p0102	N84-10665
	09	p1341	N84-18757
	15	p2362	N84-25169
778-19-25-03-07	18	p2868	N84-28207
778-19-35	18	p2836	N84-28003
778-32-01	16	p2438	N84-25644
778-32-001	07	p1016	N84-16589
778-34-12	21	p3413	N84-31641
778-35-03	05	p0761	N84-14989
	06	p0805	N84-15246
	19	p2992	N84-28962
	19	p2992	N84-28963
	24	p3883	N84-34603
778-35-03-00	16	p2464	N84-25793
778-36-05	18	p2947	N84-28682
778-36-06	04	p0617	N84-14071
	09	p1406	N84-19185
	10	p1529	N84-20016
	10	p1529	N84-20017
778-36-68	15	p2361	N84-25166
779-00-00	12	p1841	N84-22001
	12	p1841	N84-22006
	12	p1842	N84-22007
829-04-46-52-16	12	p1912	N84-22459
845-17-07	14	p2119	N84-23698
917-60-00	07	p0962	N84-16234
925-23-20-03	09	p1342	N84-18764
953-36-00-00-72	05	p0758	N84-14973
992-21-01	01	p0003	N84-10020
	01	p0005	N84-10034
	02	p0174	N84-11142
	09	p1250	N84-18159
	19	p2983	N84-28780
999-16-04-03	18	p2917	N84-28494

REPORT/ACCESSION NUMBER INDEX

Typical Report/Accession Number Index Listing

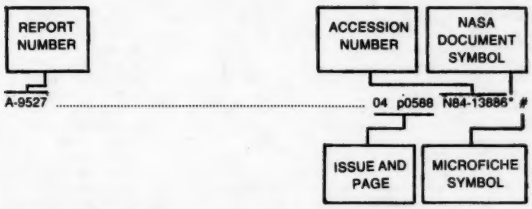

Listings in this index are arranged alphanumerically by report number. The issue and page number identify the *STAR* issue in which the document was announced and the page number on which the citation appears. The NASA accession number denotes the number by which the citation is identified on that page. An asterisk (*) indicates that the item is a NASA document. A pound sign (#) indicates that the item is available on microfiche.

A-22 02 p0281 N84-11843 #
A-83-40-66-7000 14 p2109 N84-23648* #
A-1983-3 08 p1214 N84-17921 #
A-5694 19 p3070 N84-29478* #
A-9152 18 p2950 N84-28709* #
A-9199 04 p0487 N84-13198* #
A-9222 22 p3537 N84-32393* #
A-9256 12 p1893 N84-22326* #
A-9282 01 p0003 N84-10021* #
A-9302 02 p0186 N84-11212* #
A-9303 22 p3535 N84-32380* #
A-9315 02 p0176 N84-11157* #
A-9322 16 p2574 N84-26518* #
A-9326 12 p1869 N84-22178* #
A-9341-VOL-3 21 p3523 N84-32318* #
A-9350 02 p0269 N84-11760* #
A-9372 01 p0007 N84-10043* #
A-9376 01 p0076 N84-10498* #
A-9377 22 p3543 N84-32431* #
A-9392 01 p0003 N84-10019* #
A-9403 15 p2254 N84-24537* #
A-9407 02 p0193 N84-11255* #
A-9411 10 p1427 N84-19333* #
A-9431 07 p0959 N84-16216* #
A-9435 02 p0180 N84-11176* #
A-9441 01 p0007 N84-10042* #
A-9442 01 p0007 N84-10041* #
A-9452 01 p0008 N84-10049* #
A-9457 04 p0483 N84-13178* #
A-9458 01 p0113 N84-10732* #
A-9463 01 p0003 N84-10020* #
A-9465 07 p0946 N84-16138* #
A-9469 01 p0005 N84-10034* #
A-9474 02 p0174 N84-11142* #
A-9475 14 p2211 N84-24276* #
A-9477 09 p1386 N84-19050* #
A-9480 04 p0604 N84-13985* #
A-9481 05 p0679 N84-14464* #
A-9482 02 p0181 N84-11178* #
A-9485 01 p0003 N84-10018* #
A-9485 04 p0621 N84-14096* #
A-9487 01 p0111 N84-10724* #
A-9490 09 p1312 N84-18573* #
A-9492 02 p0193 N84-11257* #
A-9497 01 p0012 N84-10079* #
A-9499 02 p0193 N84-11256* #
A-9500 02 p0174 N84-11143* #
A-9503 10 p1432 N84-19362* #
A-9507 17 p2606 N84-26693* #
A-9508 03 p0371 N84-12414* #
A-9510 04 p0483 N84-13177* #
A-9511 07 p1007 N84-16527* #
A-9514 08 p1099 N84-17144* #
A-9518 12 p1907 N84-22423* #
A-9524 07 p0947 N84-16144* #
A-9527 04 p0588 N84-13886* #
A-9533 22 p3537 N84-32394* #
A-9540 07 p1007 N84-16530* #
A-9542 03 p0429 N84-12809* #
A-9549 04 p0483 N84-13176* #
A-9560 08 p1247 N84-18152* #
A-9562 10 p1545 N84-20125* #
A-9570 14 p2113 N84-23665* #
A-9573 07 p1049 N84-16795* #
A-9573 09 p1255 N84-18190* #
A-9574 19 p3067 N84-29456* #
A-9576 13 p1931 N84-22558* #
A-9578 14 p2111 N84-23655* #
A-9579 11 p1656 N84-20807* #
A-9583 07 p0946 N84-16139* #
A-9584 07 p0947 N84-16143* #
A-9592 11 p1757 N84-21471* #
A-9593 21 p3328 N84-31111* #
A-9595 12 p1921 N84-22515* #
A-9597 10 p1451 N84-19475* #
A-9599 21 p3398 N84-31554* #
A-9602-VOL-1 14 p2221 N84-24327* #
A-9602-VOL-2 15 p2403 N84-25426* #
A-9603 08 p1098 N84-17141* #
A-9604 08 p1097 N84-17137* #
A-9606 14 p2100 N84-23606* #
A-9611 15 p2255 N84-24540* #
A-9620 07 p1007 N84-16526* #
A-9622 19 p2958 N84-28750* #
A-9634 10 p1553 N84-20176* #
A-9642 07 p0966 N84-16257* #
A-9645 13 p1989 N84-22913* #
A-9646 14 p2110 N84-23653* #
A-9650 14 p2100 N84-23605* #
A-9660 10 p1427 N84-19334* #
A-9662 15 p2424 N84-25562* #
A-9665 12 p1893 N84-22328* #
A-9669 12 p1815 N84-21833* #
A-9670 14 p2103 N84-23617* #
A-9675 14 p2104 N84-23622* #
A-9678 13 p1935 N84-22585* #
A-9681 10 p1545 N84-20126* #
A-9689 22 p3684 N84-33365* #
A-9690 13 p1926 N84-22536* #
A-9692 12 p1815 N84-21831* #
A-9693 13 p1926 N84-22535* #
A-9694 15 p2253 N84-24528* #
A-9695 13 p1926 N84-22532* #
A-9697 13 p1935 N84-22584* #
A-9704 21 p3324 N84-31090* #
A-9705 12 p1826 N84-21904* #
A-9707 16 p2439 N84-25648* #
A-9713 21 p3327 N84-31105* #
A-9716 19 p3080 N84-29544* #
A-9717 19 p2968 N84-28809* #
A-9724 15 p2336 N84-25020* #
A-9725 18 p2792 N84-27718* #
A-9729 15 p2259 N84-24566* #
A-9738 16 p2575 N84-26525* #
A-9744 19 p3082 N84-29556* #
A-9748 17 p2600 N84-26664* #
A-9752 22 p3644 N84-33106* #
A-9754 21 p3524 N84-32328* #
A-9755 17 p2774 N84-27615* #
A-9756 17 p2774 N84-27616* #
A-9757 16 p2575 N84-26526* #
A-9760 21 p3492 N84-32131* #
A-9762 18 p2785 N84-27680* #
A-9764 16 p2575 N84-26524* #
A-9765 16 p2574 N84-26521* #
A-9766 16 p2574 N84-26522* #
A-9768 22 p3593 N84-32752* #
A-9774 16 p2574 N84-26523* #
A-9777 20 p3127 N84-29857* #
A-9778 22 p3530 N84-32350* #
A-9783 21 p3344 N84-31215* #
A-9786 18 p2836 N84-28001* #
A-9796 19 p2958 N84-28746* #
A-9798 21 p3324 N84-31093* #
A-9799 20 p3183 N84-30225* #
A-9801 17 p2600 N84-26666* #
A-9803 19 p2958 N84-28745* #
A-9807 21 p3324 N84-31089* #

A-9812 ..... 22 p3531 N84-32358* #
A-9813 ..... 19 p3099 N84-29686* #
A-9815 ..... 20 p3290 N84-30687* #
A-9816 ..... 21 p3324 N84-31094* #
A-9821 ..... 20 p3183 N84-30226* #
A-9822 ..... 21 p3324 N84-31092* #
A-9825 ..... 23 p3638 N84-34348* #
A-9827 ..... 23 p3692 N84-33401* #
A-9831 ..... 19 p2963 N84-28780* #
A-9836 ..... 20 p3227 N84-30510* #
A-9837 ..... 23 p3840 N84-34359* #
A-9839 ..... 24 p3900 N84-34695* #
A-9844 ..... 22 p3544 N84-32438* #
A-9845 ..... 22 p3535 N84-32379* #
A-9848 ..... 22 p3593 N84-32753* #
A-9851 ..... 24 p3856 N84-34445* #
A-9855 ..... 24 p3950 N84-35009* #
A-9860 ..... 23 p3689 N84-33383* #

AJV-83560-3 ..... 05 p0681 N84-14474 #

AAC-119-81-4 ..... 21 p3461 N84-31948 #

AAE-83-10 ..... 14 p2150 N84-23882 #
AAE-84-1 ..... 08 p1098 N84-17140* #

AAR-R545 ..... 04 p0510 N84-13340 #

AAR-161-PT-1 ..... 01 p0135 N84-10885 #
AAR-162-PT-2 ..... 01 p0135 N84-10886 #
AAR-167 ..... 01 p0135 N84-10884 #

AARL-TR-81-0 ..... 19 p3020 N84-29151* #
AARL-TR-83-2 ..... 07 p0947 N84-16145* #

AASE-83-256 ..... 09 p1314 N84-18588 #

ABRL-IMR-684 ..... 05 p0627 N84-14126 #

ACC-67227 ..... 03 p0430 N84-12818

ACEE-03-PR-8484 ..... 24 p3878 N84-34573* #
ACEE-06-FR-9894 ..... 19 p2956 N84-28735* #
ACEE-17-FR-1606 ..... 19 p2957 N84-28742* #
ACEE-17-FR-1644 ..... 19 p2955 N84-28727* #

ACI-111483-FR ..... 06 p0881 N84-15732* #

ACSC-84-1345 ..... 23 p3833 N84-34316 #
ACSC-84-2225 ..... 22 p3669 N84-33252 #
ACSC-84-2605 ..... 22 p3674 N84-33288 #
ACSC-84-2765 ..... 22 p3638 N84-33063 #
ACSC-84-2780 ..... 22 p3669 N84-33253 #

ACT-TR-8147 ..... 08 p1125 N84-17312 #

ACT-39 ..... 20 p3281 N84-30825 #
ACT-40 ..... 20 p3280 N84-30824 #
ACT-45 ..... 20 p3266 N84-30723 #
ACT-350 ..... 07 p0949 N84-16157 #

AD-A13353 ..... 03 p0366 N84-12378
AD-A121532 ..... 17 p2652 N84-26956 #
AD-A125166 ..... 07 p1007 N84-16532 #
AD-A126269 ..... 03 p0378 N84-12464 #
AD-A126640 ..... 07 p1093 N84-17110 #
AD-A126702 ..... 06 p0873 N84-15883 #
AD-A126703 ..... 06 p0782 N84-15125 #
AD-A126786 ..... 06 p0843 N84-15502 #
AD-A126804 ..... 07 p0997 N84-16464 #
AD-A126938 ..... 17 p2667 N84-27006 #
AD-A128036 ..... 07 p0947 N84-16148 #
AD-A128228 ..... 18 p2810 N84-27837 #
AD-A128680 ..... 01 p0062 N84-10406 #
AD-A128686 ..... 01 p0078 N84-10507 #
AD-A128691 ..... 01 p0052 N84-10334 #
AD-A128950 ..... 11 p1652 N84-20784 #
AD-A129005 ..... 01 p0052 N84-10333 #
AD-A129022 ..... 01 p0120 N84-10781 #
AD-A129025 ..... 01 p0120 N84-10782 #
AD-A129026 ..... 01 p0120 N84-10783 #
AD-A129094 ..... 01 p0077 N84-10505 #
AD-A129137 ..... 02 p0293 N84-11923 #
AD-A129144 ..... 01 p0129 N84-10842 #
AD-A129150 ..... 01 p0129 N84-10841 #
AD-A129152 ..... 01 p0119 N84-10770 #
AD-A129157 ..... 01 p0069 N84-10453 #
AD-A129169 ..... 01 p0078 N84-10506 #
AD-A129170 ..... 01 p0129 N84-10840 #
AD-A129180 ..... 01 p0128 N84-10839 #
AD-A129276 ..... 01 p0142 N84-10930 #
AD-A129285 ..... 02 p0248 N84-11625 #
AD-A129296 ..... 01 p0136 N84-10894 #
AD-A129322 ..... 01 p0132 N84-10868 #
AD-A129323 ..... 01 p0063 N84-10543 #
AD-A129327 ..... 01 p0071 N84-10463 #

AD-A129340 ..... 02 p0186 N84-11207 #
AD-A129342 ..... 02 p0183 N84-11190 #
AD-A129365 ..... 06 p0893 N84-15800 #
AD-A129367 ..... 06 p0908 N84-15899 #
AD-A129389 ..... 06 p0897 N84-15821 #
AD-A129432 ..... 02 p0180 N84-11172 #
AD-A129525 ..... 01 p0137 N84-10895 #
AD-A129554 ..... 01 p0138 N84-10905 #
AD-A129559 ..... 03 p0427 N84-12798 #
AD-A129582 ..... 01 p0152 N84-11001 #
AD-A129598 ..... 01 p0084 N84-10544 #
AD-A129607 ..... 01 p0064 N84-10422 #
AD-A129629 ..... 01 p0071 N84-10464 #
AD-A129667 ..... 01 p0050 N84-10320 #
AD-A129690 ..... 01 p0064 N84-10421 #
AD-A129785 ..... 01 p0150 N84-10984 #
AD-A129805 ..... 01 p0139 N84-10914 #
AD-A129812 ..... 01 p0105 N84-10681 #
AD-A129821 ..... 01 p0070 N84-10457 #
AD-A129824 ..... 01 p0121 N84-10787 #
AD-A129825 ..... 01 p0070 N84-10456 #
AD-A129856 ..... 01 p0078 N84-10508 #
AD-A129857 ..... 01 p0129 N84-10846 #
AD-A129858 ..... 01 p0016 N84-10102 #
AD-A129862 ..... 01 p0107 N84-10696 #
AD-A129863 ..... 01 p0129 N84-10845 #
AD-A129866 ..... 01 p0038 N84-10239 #
AD-A129871 ..... 01 p0031 N84-10192 #
AD-A129886 ..... 01 p0140 N84-10916 #
AD-A129896 ..... 01 p0140 N84-10915 #
AD-A129926 ..... 14 p2184 N84-24085 #
AD-A129990 ..... 01 p0028 N84-10179 #
AD-A130027 ..... 01 p0122 N84-10791 #
AD-A130043 ..... 01 p0028 N84-10178 #
AD-A130071 ..... 01 p0030 N84-10191 #
AD-A130079 ..... 01 p0104 N84-10676 #
AD-A130083 ..... 02 p0199 N84-11298 #
AD-A130084 ..... 01 p0078 N84-10510 #
AD-A130085 ..... 01 p0107 N84-10693 #
AD-A130088 ..... 01 p0107 N84-10694 #
AD-A130089 ..... 01 p0107 N84-10695 #
AD-A130093 ..... 01 p0141 N84-10929 #
AD-A130094 ..... 01 p0141 N84-10924 #
AD-A130095 ..... 01 p0141 N84-10925 #
AD-A130096 ..... 01 p0146 N84-10961 #
AD-A130097 ..... 01 p0018 N84-10113 #
AD-A130098 ..... 01 p0132 N84-10864 #
AD-A130100 ..... 01 p0141 N84-10926 #
AD-A130102 ..... 01 p0083 N84-10539 #
AD-A130103 ..... 01 p0165 N84-11085 #
AD-A130141 ..... 01 p0070 N84-10454 #
AD-A130144 ..... 01 p0006 N84-10037* #
AD-A130145 ..... 02 p0213 N84-11391 #
AD-A130146 ..... 01 p0121 N84-10784 #
AD-A130154 ..... 01 p0086 N84-10563 #
AD-A130160 ..... 01 p0156 N84-11026 #
AD-A130161 ..... 01 p0083 N84-10542 #
AD-A130162 ..... 01 p0131 N84-10859 #
AD-A130163 ..... 01 p0092 N84-10600 #
AD-A130182 ..... 01 p0129 N84-10844 #
AD-A130183 ..... 01 p0129 N84-10843 #
AD-A130186 ..... 01 p0131 N84-10857 #
AD-A130187 ..... 01 p0108 N84-10700 #
AD-A130190 ..... 01 p0031 N84-10194 #
AD-A130192 ..... 01 p0141 N84-10927 #
AD-A130194 ..... 01 p0078 N84-10509 #
AD-A130195 ..... 01 p0100 N84-10649 #
AD-A130198 ..... 01 p0006 N84-10038 #
AD-A130199 ..... 01 p0063 N84-10414 #
AD-A130200 ..... 01 p0090 N84-10585 #
AD-A130204 ..... 01 p0070 N84-10458 #
AD-A130205 ..... 01 p0108 N84-10699 #
AD-A130206 ..... 01 p0107 N84-10698 #
AD-A130207 ..... 01 p0107 N84-10697 #
AD-A130213 ..... 01 p0131 N84-10856 #
AD-A130214 ..... 01 p0121 N84-10789 #
AD-A130215 ..... 01 p0121 N84-10788 #
AD-A130216 ..... 01 p0166 N84-11092 #
AD-A130218 ..... 01 p0063 N84-10413 #
AD-A130221 ..... 01 p0049 N84-10319 #
AD-A130223 ..... 01 p0086 N84-10561 #
AD-A130224 ..... 01 p0156 N84-11025 #
AD-A130227 ..... 01 p0119 N84-10771 #
AD-A130231 ..... 01 p0113 N84-10733 #
AD-A130232 ..... 01 p0064 N84-10417 #
AD-A130241 ..... 01 p0147 N84-10964 #
AD-A130248 ..... 01 p0136 N84-10891 #
AD-A130250 ..... 01 p0116 N84-10752 #
AD-A130251 ..... 01 p0147 N84-10963 #
AD-A130258 ..... 01 p0063 N84-10416 #
AD-A130259 ..... 01 p0103 N84-10670 #
AD-A130260 ..... 01 p0116 N84-10753 #
AD-A130261 ..... 01 p0031 N84-10195 #
AD-A130267 ..... 01 p0052 N84-10336 #
AD-A130270 ..... 01 p0063 N84-10415 #
AD-A130273 ..... 01 p0116 N84-10751 #

AD-A130277 01 p0141 N84-10928 #
AD-A130278 01 p0086 N84-10562 #
AD-A130279 01 p0117 N84-10760 #
AD-A130280 01 p0113 N84-10734 #
AD-A130286 01 p0116 N84-10754 #
AD-A130288 01 p0104 N84-10677 #
AD-A130289 01 p0165 N84-11086* #
AD-A130293 01 p0004 N84-10027 #
AD-A130298 01 p0006 N84-10039 #
AD-A130301 01 p0136 N84-10890 #
AD-A130306 01 p0132 N84-10865 #
AD-A130309 01 p0007 N84-10045 #
AD-A130336 01 p0161 N84-11058 #
AD-A130337 01 p0071 N84-10462 #
AD-A130338 01 p0136 N84-10893 #
AD-A130344 01 p0100 N84-10650 #
AD-A130350 01 p0016 N84-10105 #
AD-A130353 01 p0071 N84-10461 #
AD-A130356 01 p0102 N84-10660* #
AD-A130358 01 p0064 N84-10420 #
AD-A130359 01 p0121 N84-10790 #
AD-A130360 01 p0064 N84-10419 #
AD-A130363 01 p0063 N84-10412 #
AD-A130364 01 p0016 N84-10104 #
AD-A130368 01 p0052 N84-10335 #
AD-A130372 01 p0095 N84-10617 #
AD-A130376 01 p0070 N84-10455 #
AD-A130378 01 p0043 N84-10278 #
AD-A130381 01 p0149 N84-10976 #
AD-A130382 01 p0086 N84-10560 #
AD-A130385 01 p0043 N84-10277 #
AD-A130386 01 p0116 N84-10750 #
AD-A130387 01 p0063 N84-10541 #
AD-A130389 01 p0016 N84-10103 #
AD-A130390 01 p0063 N84-10411 #
AD-A130391 01 p0062 N84-10410 #
AD-A130393 01 p0062 N84-10409 #
AD-A130394 01 p0049 N84-10316 #
AD-A130395 01 p0095 N84-10616 #
AD-A130396 01 p0094 N84-10615 #
AD-A130398 01 p0004 N84-10026 #
AD-A130399 01 p0062 N84-10408 #
AD-A130403 01 p0129 N84-10847 #
AD-A130421 01 p0031 N84-10193 #
AD-A130422 01 p0138 N84-10904 #
AD-A130424 01 p0146 N84-10962 #
AD-A130425 01 p0062 N84-10407 #
AD-A130426 01 p0136 N84-10889 #
AD-A130427 01 p0136 N84-10888 #
AD-A130429 14 p2137 N84-23808 #
AD-A130451 01 p0043 N84-10279 #
AD-A130453 01 p0136 N84-10892 #
AD-A130458 01 p0070 N84-10460 #
AD-A130459 01 p0117 N84-10761 #
AD-A130461 01 p0070 N84-10459 #
AD-A130462 01 p0105 N84-10680 #
AD-A130464 01 p0037 N84-10232 #
AD-A130466 01 p0104 N84-10679* #
AD-A130467 01 p0104 N84-10678* #
AD-A130471 01 p0007 N84-10044 #
AD-A130473 01 p0131 N84-10858 #
AD-A130474 01 p0064 N84-10418 #
AD-A130475 01 p0004 N84-10029 #
AD-A130476 01 p0004 N84-10028 #
AD-A130477 21 p3460 N84-31946 #
AD-A130491 01 p0166 N84-11088 #
AD-A130501 01 p0132 N84-10863 #
AD-A130502 01 p0132 N84-10862 #
AD-A130503 01 p0131 N84-10861 #
AD-A130514 01 p0131 N84-10860 #
AD-A130523 01 p0049 N84-10317 #
AD-A130525 01 p0130 N84-10854 #
AD-A130526 01 p0131 N84-10855 #
AD-A130527 01 p0049 N84-10318 #
AD-A130544 01 p0130 N84-10853 #
AD-A130548 01 p0130 N84-10852 #
AD-A130549 01 p0130 N84-10851 #
AD-A130565 01 p0130 N84-10850 #
AD-A130570 01 p0037 N84-10231 #
AD-A130574 01 p0130 N84-10849 #
AD-A130575 01 p0130 N84-10848 #
AD-A130578 01 p0036 N84-10230 #
AD-A130611 01 p0083 N84-10540 #
AD-A130622 01 p0121 N84-10786 #
AD-A130625 01 p0121 N84-10785 #
AD-A130627 06 p0881 N84-15733 #
AD-A130629 01 p0148 N84-10969 #
AD-A130630 01 p0079 N84-10516 #
AD-A130631 01 p0106 N84-10686 #
AD-A130632 01 p0009 N84-10052 #
AD-A130638 01 p0123 N84-10799 #
AD-A130641 01 p0078 N84-10511 #
AD-A130645 01 p0122 N84-10792 #
AD-A130647 01 p0108 N84-10702 #
AD-A130648 01 p0100 N84-10652 #
AD-A130649 01 p0108 N84-10701 #
AD-A130651 01 p0065 N84-10426 #
AD-A130652 01 p0105 N84-10682 #
AD-A130653 01 p0065 N84-10425 #
AD-A130655 01 p0065 N84-10424 #
AD-A130658 01 p0147 N84-10965 #
AD-A130658 06 p0887 N84-15768 #
AD-A130660 01 p0142 N84-10931 #
AD-A130662 01 p0117 N84-10757 #
AD-A130665 01 p0140 N84-10917 #
AD-A130680 01 p0017 N84-10111 #
AD-A130681 01 p0072 N84-10467 #
AD-A130685 01 p0117 N84-10762 #
AD-A130686 01 p0133 N84-10870 #
AD-A130687 01 p0165 N84-11087 #
AD-A130691 01 p0068 N84-10431 #
AD-A130695 01 p0084 N84-10546 #
AD-A130696 01 p0108 N84-10703 #
AD-A130697 01 p0103 N84-10666 #
AD-A130701 01 p0005 N84-10032* #
AD-A130704 01 p0122 N84-10794 #
AD-A130705 03 p0425 N84-12782 #
AD-A130707 01 p0156 N84-11027 #
AD-A130709 01 p0013 N84-10080 #
AD-A130710 01 p0133 N84-10869 #
AD-A130716 01 p0152 N84-11003 #
AD-A130717 01 p0005 N84-10031 #
AD-A130719 01 p0095 N84-10618 #
AD-A130720 01 p0133 N84-10868 #
AD-A130726 01 p0066 N84-10430 #
AD-A130727 01 p0066 N84-10429 #
AD-A130729 01 p0066 N84-10428 #
AD-A130730 01 p0122 N84-10793 #
AD-A130739 01 p0065 N84-10427 #
AD-A130740 01 p0147 N84-10966 #
AD-A130743 01 p0052 N84-10337 #
AD-A130745 01 p0152 N84-11002 #
AD-A130750 01 p0031 N84-10196 #
AD-A130752 01 p0132 N84-10867 #
AD-A130753 01 p0050 N84-10321 #
AD-A130755 01 p0084 N84-10545 #
AD-A130756 01 p0079 N84-10513 #
AD-A130757 01 p0005 N84-10030 #
AD-A130758 01 p0105 N84-10683 #
AD-A130760 01 p0124 N84-10808 #
AD-A130761 01 p0111 N84-10720 #
AD-A130764 01 p0071 N84-10466 #
AD-A130769 01 p0157 N84-11032 #
AD-A130770 03 p0457 N84-13009 #
AD-A130775 01 p0133 N84-10873 #
AD-A130776 01 p0153 N84-11008 #
AD-A130777 01 p0053 N84-10339 #
AD-A130779 01 p0067 N84-10436 #
AD-A130782 01 p0096 N84-10623 #
AD-A130786 01 p0096 N84-10622 #
AD-A130788 01 p0087 N84-10566 #
AD-A130790 01 p0044 N84-10282 #
AD-A130791 01 p0072 N84-10470 #
AD-A130794 01 p0018 N84-10106 #
AD-A130796 01 p0162 N84-11063 #
AD-A130797 01 p0161 N84-11059 #
AD-A130798 01 p0161 N84-11060 #
AD-A130800 01 p0162 N84-11062 #
AD-A130805 01 p0161 N84-11061 #
AD-A130808 01 p0149 N84-10978 #
AD-A130810 01 p0138 N84-10907 #
AD-A130817 02 p0190 N84-11232 #
AD-A130820 02 p0174 N84-11146 #
AD-A130821 01 p0119 N84-10772 #
AD-A130823 01 p0137 N84-10897 #
AD-A130824 01 p0147 N84-10967 #
AD-A130827 06 p0887 N84-15766 #
AD-A130831 01 p0079 N84-10514 #
AD-A130832 01 p0032 N84-10196 #
AD-A130836 01 p0108 N84-10704 #
AD-A130837 01 p0133 N84-10871 #
AD-A130838 06 p0887 N84-15767 #
AD-A130841 01 p0114 N84-10738 #
AD-A130849 06 p0784 N84-15136 #
AD-A130864 01 p0031 N84-10197 #
AD-A130874 01 p0084 N84-10547 #
AD-A130875 01 p0052 N84-10336 #
AD-A130877 01 p0095 N84-10619 #
AD-A130879 01 p0037 N84-10233 #
AD-A130881 06 p0887 N84-15765 #
AD-A130882 01 p0011 N84-10071 #
AD-A130885 01 p0122 N84-10795 #
AD-A130888 01 p0050 N84-10322 #
AD-A130889 01 p0105 N84-10684 #
AD-A130895 01 p0153 N84-11004 #
AD-A130900 01 p0138 N84-10906 #
AD-A130903 01 p0122 N84-10796 #
AD-A130904 01 p0037 N84-10234 #
AD-A130905 01 p0123 N84-10798 #
AD-A130910 01 p0095 N84-10621 #
AD-A130913 01 p0153 N84-11007 #
AD-A130914 01 p0153 N84-11006 #

AD-A130922 ..... 01 p0105 N84-10685 #
AD-A130923 ..... 01 p0084 N84-10548 #
AD-A130924 ..... 01 p0057 N84-10372 #
AD-A130925 ..... 01 p0057 N84-10371 #
AD-A130926 ..... 01 p0140 N84-10918 #
AD-A130933 ..... 01 p0066 N84-10432 #
AD-A130941 ..... 01 p0122 N84-10797 #
AD-A130944 ..... 01 p0044 N84-10280 #
AD-A130945 ..... 01 p0095 N84-10620 #
AD-A130947 ..... 01 p0153 N84-11005 #
AD-A130948 ..... 01 p0087 N84-10565 #
AD-A130950 ..... 01 p0079 N84-10515 #
AD-A130951 ..... 15 p2361 N84-25165* #
AD-A130954 ..... 02 p0280 N84-11633 #
AD-A130956 ..... 02 p0209 N84-11362 #
AD-A130961 ..... 02 p0239 N84-11570 #
AD-A130962 ..... 02 p0286 N84-11887 #
AD-A130966 ..... 03 p0388 N84-12532 #
AD-A130972 ..... 02 p0298 N84-11954 #
AD-A130973 ..... 02 p0284 N84-11859 #
AD-A130974 ..... 02 p0200 N84-11299 #
AD-A130976 ..... 02 p0229 N84-11502 #
AD-A130980 ..... 02 p0194 N84-11259 #
AD-A130985 ..... 02 p0213 N84-11392 #
AD-A130990 ..... 02 p0223 N84-11461 #
AD-A130991 ..... 02 p0218 N84-11426 #
AD-A130998 ..... 02 p0248 N84-11626 #
AD-A130999 ..... 02 p0269 N84-11762 #
AD-A131000 ..... 02 p0203 N84-11321 #
AD-A131001 ..... 02 p0289 N84-11892 #
AD-A131002 ..... 02 p0288 N84-11886 #
AD-A131003 ..... 02 p0277 N84-11818 #
AD-A131007 ..... 02 p0186 N84-11208 #
AD-A131008 ..... 02 p0186 N84-11209 #
AD-A131011 ..... 01 p0133 N84-10672 #
AD-A131012 ..... 02 p0294 N84-11924 #
AD-A131013 ..... 01 p0008 N84-10050 #
AD-A131015 ..... 06 p0891 N84-15790 #
AD-A131016 ..... 01 p0066 N84-10434 #
AD-A131018 ..... 01 p0044 N84-10281 #
AD-A131031 ..... 01 p0079 N84-10512 #
AD-A131032 ..... 02 p0183 N84-11191 #
AD-A131033 ..... 01 p0013 N84-10081 #
AD-A131035 ..... 01 p0147 N84-10968 #
AD-A131036 ..... 01 p0009 N84-10051 #
AD-A131038 ..... 01 p0032 N84-10200 #
AD-A131039 ..... 01 p0117 N84-10758 #
AD-A131042 ..... 01 p0072 N84-10468 #
AD-A131043 ..... 01 p0159 N84-11048 #
AD-A131044 ..... 01 p0159 N84-11047 #
AD-A131048 ..... 01 p0066 N84-10433 #
AD-A131049 ..... 01 p0112 N84-10725 #
AD-A131052 ..... 01 p0032 N84-10199 #
AD-A131053 ..... 01 p0140 N84-10922 #
AD-A131055 ..... 01 p0011 N84-10072 #
AD-A131056 ..... 01 p0137 N84-10898 #
AD-A131057 ..... 02 p0213 N84-11393 #
AD-A131058 ..... 02 p0177 N84-11161 #
AD-A131059 ..... 01 p0050 N84-10323 #
AD-A131060 ..... 02 p0209 N84-11363 #
AD-A131062 ..... 01 p0029 N84-10184 #
AD-A131064 ..... 01 p0072 N84-10469 #
AD-A131065 ..... 01 p0067 N84-10437 #
AD-A131067 ..... 03 p0359 N84-12338 #
AD-A131068 ..... 03 p0420 N84-12743 #
AD-A131069 ..... 02 p0289 N84-11893 #
AD-A131070 ..... 02 p0174 N84-11147 #
AD-A131080 ..... 01 p0067 N84-10436 #
AD-A131081 ..... 01 p0114 N84-10739 #
AD-A131082 ..... 01 p0159 N84-11049 #
AD-A131083 ..... 01 p0149 N84-10977 #
AD-A131084 ..... 01 p0112 N84-10726 #
AD-A131086 ..... 03 p0440 N84-12890 #
AD-A131087 ..... 03 p0429 N84-12814 #
AD-A131088 ..... 03 p0366 N84-12380 #
AD-A131089 ..... 01 p0008 N84-10046 #
AD-A131091 ..... 01 p0067 N84-10435 #
AD-A131092 ..... 01 p0086 N84-10564 #
AD-A131110 ..... 02 p0254 N84-11664 #
AD-A131115 ..... 02 p0240 N84-11573 #
AD-A131116 ..... 02 p0218 N84-11429 #
AD-A131119 ..... 03 p0459 N84-13019 #
AD-A131120 ..... 03 p0459 N84-13020 #
AD-A131125 ..... 02 p0294 N84-11929 #
AD-A131128 ..... 02 p0287 N84-11879 #
AD-A131130 ..... 02 p0213 N84-11397 #
AD-A131132 ..... 02 p0188 N84-11222 #
AD-A131134 ..... 03 p0371 N84-12417 #
AD-A131135 ..... 02 p0240 N84-11574 #
AD-A131136 ..... 02 p0242 N84-11583 #
AD-A131141 ..... 02 p0169 N84-11113 #
AD-A131142 ..... 03 p0383 N84-12498 #
AD-A131148 ..... 03 p0360 N84-12339 #
AD-A131151 ..... 02 p0203 N84-11323 #
AD-A131155 ..... 02 p0281 N84-11843 #
AD-A131156 ..... 02 p0226 N84-11480 #
AD-A131164 ..... 02 p0190 N84-11233 #
AD-A131167 ..... 02 p0180 N84-11174 #
AD-A131168 ..... 02 p0180 N84-11173 #
AD-A131188 ..... 02 p0256 N84-11674 #
AD-A131189 ..... 02 p0256 N84-11673 #
AD-A131190 ..... 02 p0255 N84-11672 #
AD-A131191 ..... 02 p0255 N84-11671 #
AD-A131192 ..... 02 p0255 N84-11670 #
AD-A131193 ..... 02 p0255 N84-11669 #
AD-A131194 ..... 01 p0109 N84-10705 #
AD-A131195 ..... 02 p0255 N84-11668 #
AD-A131196 ..... 02 p0255 N84-11667 #
AD-A131197 ..... 02 p0254 N84-11666 #
AD-A131198 ..... 02 p0254 N84-11665 #
AD-A131204 ..... 02 p0282 N84-11846 #
AD-A131207 ..... 02 p0175 N84-11150 #
AD-A131208 ..... 02 p0282 N84-11845 #
AD-A131209 ..... 02 p0281 N84-11844 #
AD-A131212 ..... 02 p0285 N84-11868 #
AD-A131213 ..... 02 p0285 N84-11867 #
AD-A131214 ..... 02 p0285 N84-11866 #
AD-A131215 ..... 01 p0106 N84-10688 #
AD-A131217 ..... 01 p0111 N84-10719 #
AD-A131221 ..... 01 p0134 N84-10877 #
AD-A131223 ..... 01 p0044 N84-10283 #
AD-A131224 ..... 01 p0116 N84-10755 #
AD-A131234 ..... 01 p0008 N84-10047 #
AD-A131235 ..... 01 p0101 N84-10653 #
AD-A131238 ..... 01 p0142 N84-10932 #
AD-A131245 ..... 01 p0140 N84-10919 #
AD-A131246 ..... 01 p0072 N84-10472 #
AD-A131251 ..... 01 p0012 N84-10076 #
AD-A131252 ..... 01 p0138 N84-10908 #
AD-A131254 ..... 01 p0103 N84-10667 #
AD-A131255 ..... 01 p0067 N84-10440 #
AD-A131256 ..... 01 p0118 N84-10763 #
AD-A131257 ..... 01 p0032 N84-10201 #
AD-A131259 ..... 01 p0080 N84-10517 #
AD-A131262 ..... 01 p0067 N84-10441 #
AD-A131263 ..... 01 p0106 N84-10689 #
AD-A131266 ..... 01 p0149 N84-10979 #
AD-A131267 ..... 01 p0096 N84-10627 #
AD-A131272 ..... 01 p0096 N84-10624 #
AD-A131273 ..... 01 p0124 N84-10804 #
AD-A131274 ..... 02 p0249 N84-11628 #
AD-A131275 ..... 02 p0295 N84-11937 #
AD-A131276 ..... 02 p0281 N84-11841 #
AD-A131277 ..... 02 p0200 N84-11303 #
AD-A131278 ..... 02 p0223 N84-11463 #
AD-A131279 ..... 02 p0281 N84-11842 #
AD-A131280 ..... 02 p0278 N84-11825 #
AD-A131281 ..... 01 p0065 N84-10423 #
AD-A131282 ..... 03 p0389 N84-12534 #
AD-A131284 ..... 02 p0206 N84-11341 #
AD-A131286 ..... 01 p0100 N84-10651 #
AD-A131287 ..... 02 p0292 N84-11914 #
AD-A131288 ..... 02 p0226 N84-11479 #
AD-A131289 ..... 02 p0240 N84-11572 #
AD-A131290 ..... 02 p0257 N84-11685 #
AD-A131291 ..... 02 p0210 N84-11369 #
AD-A131293 ..... 02 p0231 N84-11518 #
AD-A131297 ..... 02 p0294 N84-11928 #
AD-A131300 ..... 02 p0298 N84-11957 #
AD-A131301 ..... 02 p0298 N84-11958 #
AD-A131302 ..... 01 p0114 N84-10740 #
AD-A131306 ..... 02 p0278 N84-11823 #
AD-A131313 ..... 02 p0273 N84-11786 #
AD-A131314 ..... 02 p0258 N84-11686 #
AD-A131316 ..... 02 p0280 N84-11836 #
AD-A131318 ..... 02 p0277 N84-11812 #
AD-A131319 ..... 02 p0294 N84-11925 #
AD-A131320 ..... 02 p0278 N84-11820 #
AD-A131321 ..... 02 p0272 N84-11780 #
AD-A131322 ..... 02 p0249 N84-11627 #
AD-A131324 ..... 02 p0231 N84-11517 #
AD-A131325 ..... 02 p0277 N84-11813 #
AD-A131326 ..... 02 p0209 N84-11367 #
AD-A131327 ..... 02 p0254 N84-11661 #
AD-A131328 ..... 02 p0177 N84-11162 #
AD-A131329 ..... 01 p0111 N84-10721 #
AD-A131330 ..... 02 p0242 N84-11582 #
AD-A131331 ..... 02 p0265 N84-11745 #
AD-A131332 ..... 02 p0272 N84-11781 #
AD-A131333 ..... 02 p0294 N84-11926 #
AD-A131334 ..... 02 p0200 N84-11301 #
AD-A131336 ..... 02 p0186 N84-11210 #
AD-A131337 ..... 02 p0284 N84-11861 #
AD-A131338 ..... 02 p0284 N84-11862 #
AD-A131340 ..... 02 p0272 N84-11777 #
AD-A131347 ..... 02 p0298 N84-11955 #
AD-A131348 ..... 02 p0213 N84-11394 #
AD-A131349 ..... 02 p0231 N84-11516 #
AD-A131350 ..... 02 p0298 N84-11956 #
AD-A131352 ..... 02 p0218 N84-11427 #
AD-A131353 ..... 02 p0188 N84-11221 #
AD-A131356 ..... 02 p0209 N84-11364 #

AD-A131357 02 p0209 N84-11365 #
AD-A131358 02 p0272 N84-11778 #
AD-A131359 02 p0278 N84-11819 #
AD-A131360 01 p0012 N84-10073 #
AD-A131363 01 p0148 N84-10970 #
AD-A131365 02 p0272 N84-11779 #
AD-A131366 02 p0209 N84-11366 #
AD-A131367 02 p0284 N84-11860 #
AD-A131368 02 p0200 N84-11300 #
AD-A131369 02 p0280 N84-11834 #
AD-A131374 02 p0280 N84-11835 #
AD-A131375 02 p0213 N84-11395 #
AD-A131377 02 p0284 N84-11864 #
AD-A131378 02 p0268 N84-11757 #
AD-A131379 03 p0457 N84-13011 #
AD-A131381 01 p0116 N84-10756 #
AD-A131382 02 p0278 N84-11821 #
AD-A131383 02 p0278 N84-11822* #
AD-A131384 02 p0175 N84-11148 #
AD-A131385 02 p0279 N84-11826 #
AD-A131386 02 p0229 N84-11503 #
AD-A131392 02 p0280 N84-11837 #
AD-A131393 03 p0388 N84-12533 #
AD-A131394 02 p0284 N84-11863 #
AD-A131395 02 p0214 N84-11405 #
AD-A131396 02 p0175 N84-11149 #
AD-A131400 02 p0280 N84-11838 #
AD-A131401 02 p0286 N84-11876 #
AD-A131402 02 p0178 N84-11163 #
AD-A131403 02 p0272 N84-11782 #
AD-A131405 02 p0200 N84-11302 #
AD-A131406 02 p0184 N84-11195 #
AD-A131408 02 p0266 N84-11747 #
AD-A131409 02 p0249 N84-11631 #
AD-A131410 02 p0178 N84-11166 #
AD-A131411 02 p0210 N84-11371 #
AD-A131412 02 p0179 N84-11168 #
AD-A131414 02 p0175 N84-11153 #
AD-A131415 02 p0176 N84-11154 #
AD-A131416 02 p0176 N84-11155 #
AD-A131420 01 p0113 N84-10735 #
AD-A131423 02 p0268 N84-11756 #
AD-A131424 02 p0278 N84-11824 #
AD-A131431 02 p0249 N84-11630 #
AD-A131440 02 p0210 N84-11370 #
AD-A131443 01 p0117 N84-10759 #
AD-A131444 02 p0282 N84-11847 #
AD-A131445 02 p0178 N84-11165 #
AD-A131447 02 p0288 N84-11888 #
AD-A131448 02 p0249 N84-11629 #
AD-A131449 02 p0303 N84-11991 #
AD-A131455 02 p0299 N84-11959 #
AD-A131456 02 p0185 N84-11201 #
AD-A131457 02 p0181 N84-11179 #
AD-A131462 02 p0178 N84-11164 #
AD-A131465 02 p0256 N84-11675 #
AD-A131466 02 p0226 N84-11481 #
AD-A131469 02 p0289 N84-11895 #
AD-A131470 02 p0273 N84-11783 #
AD-A131475 01 p0137 N84-10896 #
AD-A131476 02 p0273 N84-11784 #
AD-A131477 02 p0223 N84-11462 #
AD-A131478 02 p0296 N84-11938 #
AD-A131479 02 p0273 N84-11785 #
AD-A131480 01 p0072 N84-10471 #
AD-A131485 01 p0096 N84-10626 #
AD-A131486 01 p0106 N84-10687 #
AD-A131495 01 p0123 N84-10803 #
AD-A131498 01 p0123 N84-10802 #
AD-A131500 01 p0113 N84-10736 #
AD-A131501 01 p0123 N84-10801 #
AD-A131503 01 p0134 N84-10876 #
AD-A131504 01 p0096 N84-10625 #
AD-A131507 01 p0087 N84-10567 #
AD-A131510 01 p0134 N84-10875 #
AD-A131511 01 p0123 N84-10800 #
AD-A131514 01 p0050 N84-10324 #
AD-A131522 01 p0012 N84-10074 #
AD-A131523 01 p0133 N84-10874 #
AD-A131525 01 p0137 N84-10899 #
AD-A131528 01 p0067 N84-10439 #
AD-A131529 02 p0282 N84-11848 #
AD-A131530 03 p0360 N84-12340 #
AD-A131531 02 p0273 N84-11787 #
AD-A131532 02 p0213 N84-11398 #
AD-A131533 01 p0114 N84-10737 #
AD-A131534 02 p0169 N84-11114 #
AD-A131536 02 p0249 N84-11632 #
AD-A131538 02 p0190 N84-11234 #
AD-A131539 02 p0299 N84-11960 #
AD-A131546 02 p0223 N84-11464 #
AD-A131548 02 p0301 N84-11976 #
AD-A131551 02 p0210 N84-11372 #
AD-A131553 02 p0295 N84-11931 #
AD-A131554 02 p0294 N84-11930 #
AD-A131555 02 p0226 N84-11482 #
AD-A131557 03 p0407 N84-12665 #
AD-A131564 18 p2810 N84-27839 #
AD-A131565 02 p0231 N84-11519 #
AD-A131567 02 p0285 N84-11869 #
AD-A131572 03 p0371 N84-12418 #
AD-A131574 02 p0203 N84-11324 #
AD-A131575 02 p0180 N84-11175 #
AD-A131576 02 p0285 N84-11865 #
AD-A131591 02 p0225 N84-11478 #
AD-A131592 03 p0432 N84-12829 #
AD-A131596 03 p0457 N84-13010 #
AD-A131598 02 p0265 N84-11746 #
AD-A131599 02 p0281 N84-11839 #
AD-A131600 02 p0281 N84-11840 #
AD-A131601 02 p0289 N84-11894 #
AD-A131606 02 p0194 N84-11260 #
AD-A131610 01 p0012 N84-10075 #
AD-A131613 02 p0254 N84-11662 #
AD-A131617 02 p0240 N84-11571 #
AD-A131618 02 p0194 N84-11261 #
AD-A131619 02 p0203 N84-11322 #
AD-A131620 02 p0302 N84-11982 #
AD-A131621 02 p0254 N84-11663 #
AD-A131622 02 p0218 N84-11426 #
AD-A131623 02 p0213 N84-11396 #
AD-A131628 01 p0087 N84-10568 #
AD-A131629 02 p0294 N84-11927 #
AD-A131630 02 p0209 N84-11368 #
AD-A131631 03 p0444 N84-12919 #
AD-A131632 03 p0428 N84-12808 #
AD-A131633 03 p0356 N84-12317 #
AD-A131634 03 p0320 N84-12096* #
AD-A131639 03 p0424 N84-12773 #
AD-A131642 03 p0332 N84-12163 #
AD-A131649 03 p0424 N84-12772 #
AD-A131651 03 p0420 N84-12747 #
AD-A131653 03 p0431 N84-12822 #
AD-A131660 03 p0331 N84-12162 #
AD-A131661 03 p0444 N84-12918 #
AD-A131665 03 p0331 N84-12161 #
AD-A131668 03 p0328 N84-12138 #
AD-A131667 03 p0444 N84-12920 #
AD-A131674 03 p0361 N84-12352 #
AD-A131679 03 p0377 N84-12455 #
AD-A131682 03 p0425 N84-12787 #
AD-A131687 03 p0353 N84-12292 #
AD-A131688 03 p0341 N84-12215 #
AD-A131689 05 p0644 N84-14238 #
AD-A131692 03 p0420 N84-12746 #
AD-A131695 03 p0408 N84-12671 #
AD-A131696 03 p0331 N84-12160 #
AD-A131704 03 p0433 N84-12838 #
AD-A131705 03 p0417 N84-12728 #
AD-A131706 03 p0452 N84-12978 #
AD-A131709 03 p0380 N84-12471 #
AD-A131720 03 p0379 N84-12470 #
AD-A131722 03 p0424 N84-12771 #
AD-A131725 03 p0328 N84-12137 #
AD-A131726 03 p0349 N84-12270 #
AD-A131729 10 p1505 N84-19838 #
AD-A131730 10 p1505 N84-19841 #
AD-A131732 03 p0420 N84-12745 #
AD-A131733 03 p0377 N84-12454 #
AD-A131733 11 p1659 N84-20822 #
AD-A131739 03 p0361 N84-12351 #
AD-A131746 03 p0332 N84-12165 #
AD-A131748 03 p0452 N84-12977 #
AD-A131749 03 p0452 N84-12976 #
AD-A131750 03 p0452 N84-12975 #
AD-A131752 03 p0379 N84-12469 #
AD-A131753 03 p0379 N84-12468 #
AD-A131762 03 p0385 N84-12509 #
AD-A131770 03 p0458 N84-13012 #
AD-A131771 03 p0338 N84-12195 #
AD-A131777 03 p0433 N84-12837 #
AD-A131782 03 p0433 N84-12836 #
AD-A131783 03 p0433 N84-12835 #
AD-A131785 03 p0452 N84-12974 #
AD-A131792 03 p0361 N84-12350 #
AD-A131793 03 p0408 N84-12670 #
AD-A131794 03 p0433 N84-12834 #
AD-A131795 03 p0427 N84-12801 #
AD-A131796 03 p0349 N84-12269 #
AD-A131798 03 p0432 N84-12833 #
AD-A131800 03 p0459 N84-13024 #
AD-A131801 04 p0574 N84-13778 #
AD-A131804 03 p0423 N84-12770 #
AD-A131812 03 p0361 N84-12349 #
AD-A131814 03 p0346 N84-12251 #
AD-A131815 03 p0411 N84-12692 #
AD-A131820 03 p0366 N84-12383 #
AD-A131824 03 p0417 N84-12727* #
AD-A131825 03 p0377 N84-12453 #
AD-A131826 03 p0411 N84-12691 #
AD-A131828 03 p0315 N84-12055 #
AD-A131830 03 p0416 N84-12722 #

AD-A131832 03 p0366 N84-12382 #
AD-A131836 03 p0414 N84-12708 #
AD-A131837 03 p0379 N84-12467 #
AD-A131838 03 p0408 N84-12669 #
AD-A131839 03 p0315 N84-12054 #
AD-A131841 03 p0452 N84-12973 #
AD-A131842 03 p0346 N84-12250 #
AD-A131843 03 p0416 N84-12719 #
AD-A131844 03 p0452 N84-12972 #
AD-A131845 03 p0377 N84-12452 #
AD-A131847 03 p0414 N84-12707 #
AD-A131848 03 p0372 N84-12423 #
AD-A131849 03 p0427 N84-12800 #
AD-A131851 03 p0358 N84-12331 #
AD-A131852 03 p0401 N84-12619 #
AD-A131857 03 p0356 N84-12316 #
AD-A131859 03 p0423 N84-12769 #
AD-A131860 03 p0379 N84-12466 #
AD-A131863 03 p0349 N84-12268 #
AD-A131864 03 p0356 N84-12315 #
AD-A131865 03 p0361 N84-12347 #
AD-A131867 03 p0416 N84-12721 #
AD-A131868 03 p0432 N84-12832* #
AD-A131869 03 p0411 N84-12690 #
AD-A131870 03 p0403 N84-12637 #
AD-A131871 03 p0372 N84-12422 #
AD-A131872 03 p0361 N84-12346 #
AD-A131874 03 p0377 N84-12451 #
AD-A131875 03 p0452 N84-12971 #
AD-A131876 03 p0314 N84-12053 #
AD-A131877 03 p0314 N84-12052 #
AD-A131878 03 p0314 N84-12051 #
AD-A131880 03 p0366 N84-12381 #
AD-A131881 03 p0341 N84-12212 #
AD-A131882 03 p0372 N84-12421 #
AD-A131884 03 p0347 N84-12258 #
AD-A131886 03 p0379 N84-12465 #
AD-A131889 03 p0371 N84-12420 #
AD-A131891 03 p0360 N84-12345 #
AD-A131892 03 p0411 N84-12689 #
AD-A131894 03 p0338 N84-12194 #
AD-A131897 03 p0476 N84-13135 #
AD-A131898 03 p0403 N84-12636 #
AD-A131900 03 p0418 N84-12732* #
AD-A131904 03 p0331 N84-12159 #
AD-A131906 03 p0427 N84-12799 #
AD-A131911 03 p0425 N84-12786 #
AD-A131912 03 p0389 N84-12536 #
AD-A131916 03 p0430 N84-12821 #
AD-A131917 03 p0320 N84-12095 #
AD-A131918 03 p0376 N84-12450 #
AD-A131923 03 p0360 N84-12344 #
AD-A131924 03 p0441 N84-12894 #
AD-A131925 03 p0451 N84-12970 #
AD-A131927 03 p0331 N84-12158 #
AD-A131928 03 p0331 N84-12157 #
AD-A131929 03 p0340 N84-12211 #
AD-A131930 04 p0573 N84-13772 #
AD-A131932 03 p0441 N84-12893 #
AD-A131933 03 p0383 N84-12496 #
AD-A131934 03 p0451 N84-12969 #
AD-A131936 03 p0420 N84-12744 #
AD-A131937 03 p0371 N84-12419 #
AD-A131938 03 p0320 N84-12094 #
AD-A131939 03 p0346 N84-12249 #
AD-A131946 03 p0444 N84-12917 #
AD-A131947 03 p0360 N84-12343 #
AD-A131948 03 p0411 N84-12688 #
AD-A131949 03 p0432 N84-12831 #
AD-A131950 03 p0342 N84-12218 #
AD-A131955 03 p0330 N84-12156 #
AD-A131961 03 p0352 N84-12291 #
AD-A131962 03 p0415 N84-12718 #
AD-A131964 03 p0459 N84-13023 #
AD-A131965 03 p0340 N84-12210 #
AD-A131968 03 p0461 N84-13037 #
AD-A131970 03 p0428 N84-12807 #
AD-A131972 03 p0337 N84-12191 #
AD-A131974 03 p0425 N84-12785 #
AD-A131975 03 p0417 N84-12726 #
AD-A131976 03 p0430 N84-12820 #
AD-A131983 03 p0408 N84-12668 #
AD-A131984 03 p0411 N84-12687 #
AD-A131985 03 p0407 N84-12667 #
AD-A131986 03 p0410 N84-12686 #
AD-A131987 03 p0320 N84-12093 #
AD-A131990 03 p0459 N84-13022 #
AD-A131992 03 p0459 N84-13021 #
AD-A132002 03 p0413 N84-12701 #
AD-A132004 03 p0425 N84-12784 #
AD-A132006 03 p0415 N84-12717 #
AD-A132007 03 p0440 N84-12892 #
AD-A132008 03 p0440 N84-12891 #
AD-A132010 03 p0430 N84-12818
AD-A132011 03 p0410 N84-12685 #
AD-A132012 03 p0401 N84-12618 #
AD-A132013 03 p0410 N84-12684 #
AD-A132014 03 p0360 N84-12342 #
AD-A132017 03 p0340 N84-12209 #
AD-A132018 03 p0410 N84-12683 #
AD-A132019 03 p0410 N84-12682 #
AD-A132021 03 p0389 N84-12535 #
AD-A132034 03 p0425 N84-12783 #
AD-A132035 03 p0410 N84-12681 #
AD-A132038 03 p0432 N84-12830 #
AD-A132039 04 p0572 N84-13771 #
AD-A132042 03 p0349 N84-12267 #
AD-A132045 03 p0413 N84-12706 #
AD-A132046 04 p0484 N84-13183 #
AD-A132047 03 p0413 N84-12705 #
AD-A132048 03 p0330 N84-12152 #
AD-A132051 04 p0572 N84-13770 #
AD-A132056 03 p0357 N84-12325 #
AD-A132057 03 p0413 N84-12704 #
AD-A132058 03 p0352 N84-12290 #
AD-A132060 03 p0356 N84-12314 #
AD-A132063 03 p0418 N84-12731 #
AD-A132064 03 p0415 N84-12716 #
AD-A132065 03 p0413 N84-12703 #
AD-A132066 03 p0415 N84-12715 #
AD-A132067 03 p0407 N84-12666 #
AD-A132069 03 p0415 N84-12714 #
AD-A132070 03 p0423 N84-12768 #
AD-A132071 03 p0349 N84-12266 #
AD-A132073 03 p0360 N84-12341 #
AD-A132078 04 p0492 N84-13227 #
AD-A132080 04 p0522 N84-13432 #
AD-A132081 04 p0522 N84-13431 #
AD-A132083 05 p0697 N84-14575 #
AD-A132084 04 p0534 N84-13510 #
AD-A132095 04 p0507 N84-13321 #
AD-A132105 04 p0553 N84-13646 #
AD-A132106 04 p0509 N84-13338 #
AD-A132107 04 p0563 N84-13713 #
AD-A132108 04 p0563 N84-13712 #
AD-A132109 04 p0606 N84-13998 #
AD-A132123 04 p0604 N84-13989 #
AD-A132132 04 p0623 N84-14108 #
AD-A132136 04 p0526 N84-13461 #
AD-A132141 04 p0534 N84-13509 #
AD-A132143 04 p0487 N84-13199 #
AD-A132147 04 p0549 N84-13617 #
AD-A132151 04 p0553 N84-13645 #
AD-A132152 04 p0522 N84-13430 #
AD-A132156 04 p0509 N84-13337 #
AD-A132158 04 p0563 N84-13711 #
AD-A132162 04 p0499 N84-13272 #
AD-A132164 04 p0586 N84-13867 #
AD-A132165 04 p0585 N84-13862 #
AD-A132170 04 p0522 N84-13429 #
AD-A132172 04 p0577 N84-13808 #
AD-A132173 18 p2836 N84-28004 #
AD-A132174 04 p0569 N84-13751 #
AD-A132175 04 p0615 N84-14060 #
AD-A132182 04 p0595 N84-13927 #
AD-A132183 04 p0484 N84-13185 #
AD-A132186 04 p0568 N84-13742 #
AD-A132195 04 p0581 N84-13633 #
AD-A132198 04 p0521 N84-13428 #
AD-A132199 05 p0684 N84-14495 #
AD-A132204 05 p0711 N84-14658 #
AD-A132206 04 p0507 N84-13320 #
AD-A132207 04 p0606 N84-13997 #
AD-A132210 04 p0487 N84-13202 #
AD-A132211 04 p0615 N84-14062 #
AD-A132213 04 p0568 N84-13741 #
AD-A132214 04 p0581 N84-13632 #
AD-A132215 05 p0708 N84-14637 #
AD-A132217 04 p0581 N84-13831 #
AD-A132219 04 p0569 N84-13750 #
AD-A132220 04 p0509 N84-13336 #
AD-A132226 04 p0506 N84-13319 #
AD-A132227 04 p0595 N84-13926 #
AD-A132229 04 p0521 N84-13427 #
AD-A132234 04 p0493 N84-13238 #
AD-A132236 04 p0596 N84-13935 #
AD-A132237 04 p0521 N84-13426 #
AD-A132240 04 p0590 N84-13900 #
AD-A132244 04 p0580 N84-13830 #
AD-A132245 04 p0533 N84-13508 #
AD-A132247 04 p0540 N84-13552 #
AD-A132248 04 p0521 N84-13425 #
AD-A132249 04 p0553 N84-13644 #
AD-A132250 04 p0506 N84-13318 #
AD-A132259 04 p0567 N84-13740 #
AD-A132260 04 p0526 N84-13460 #
AD-A132262 04 p0612 N84-14043 #
AD-A132263 05 p0713 N84-14669 #
AD-A132271 04 p0481 N84-13167 #
AD-A132272 04 p0499 N84-13271 #
AD-A132273 04 p0580 N84-13829 #
AD-A132274 04 p0526 N84-13459 #

AD-A132275 ..... 04 p0549 N84-13616 #
AD-A132276 ..... 04 p0521 N84-13424 #
AD-A132277 ..... 04 p0546 N84-13596 #
AD-A132278 ..... 04 p0489 N84-13215 #
AD-A132279 ..... 04 p0526 N84-13458 #
AD-A132280 ..... 04 p0521 N84-13423 #
AD-A132281 ..... 04 p0482 N84-13171 #
AD-A132283 ..... 04 p0521 N84-13422 #
AD-A132284 ..... 04 p0521 N84-13421 #
AD-A132292 ..... 04 p0569 N84-13749 #
AD-A132297 ..... 04 p0533 N84-13507 #
AD-A132299 ..... 04 p0580 N84-13828 #
AD-A132300 ..... 04 p0563 N84-13710 #
AD-A132302 ..... 16 p2452 N84-25722 #
AD-A132305 ..... 04 p0506 N84-13317 #
AD-A132308 ..... 04 p0483 N84-13180 #
AD-A132311 ..... 04 p0604 N84-13988 #
AD-A132312 ..... 04 p0584 N84-13861 #
AD-A132315 ..... 04 p0595 N84-13925 #
AD-A132316 ..... 04 p0533 N84-13506 #
AD-A132319 ..... 04 p0590 N84-13899 #
AD-A132320 ..... 04 p0580 N84-13827 #
AD-A132321 ..... 04 p0605 N84-13996 #
AD-A132323 ..... 04 p0506 N84-13316 #
AD-A132325 ..... 04 p0526 N84-13457 #
AD-A132326 ..... 04 p0580 N84-13826 #
AD-A132328 ..... 04 p0590 N84-13898 #
AD-A132329 ..... 04 p0484 N84-13184 #
AD-A132330 ..... 04 p0590 N84-13897 #
AD-A132331 ..... 04 p0612 N84-14042 #
AD-A132338 ..... 18 p2833 N84-27984 #
AD-A132339 ..... 04 p0604 N84-13987 #
AD-A132341 ..... 04 p0499 N84-13270 #
AD-A132347 ..... 04 p0533 N84-13505 #
AD-A132350 ..... 04 p0493 N84-13237 #
AD-A132351 ..... 04 p0525 N84-13456 #
AD-A132352 ..... 04 p0540 N84-13551 #
AD-A132354 ..... 04 p0544 N84-13584 #
AD-A132355 ..... 04 p0538 N84-13537 #
AD-A132358 ..... 04 p0589 N84-13896 #
AD-A132359 ..... 04 p0580 N84-13825 #
AD-A132362 ..... 04 p0567 N84-13739 #
AD-A132364 ..... 04 p0544 N84-13583 #
AD-A132365 ..... 04 p0612 N84-14041 #
AD-A132367 ..... 04 p0478 N84-13146 #
AD-A132371 ..... 04 p0525 N84-13455 #
AD-A132372 ..... 04 p0538 N84-13536 #
AD-A132373 ..... 04 p0525 N84-13454 #
AD-A132374 ..... 04 p0540 N84-13550 #
AD-A132379 ..... 04 p0612 N84-14040 #
AD-A132386 ..... 04 p0492 N84-13226 #
AD-A132387 ..... 04 p0612 N84-14039 #
AD-A132392 ..... 04 p0580 N84-13824 #
AD-A132397 ..... 04 p0506 N84-13315 #
AD-A132398 ..... 04 p0544 N84-13582 #
AD-A132400 ..... 04 p0520 N84-13420 #
AD-A132401 ..... 04 p0520 N84-13419 #
AD-A132403 ..... 04 p0589 N84-13895 #
AD-A132406 ..... 04 p0520 N84-13418 #
AD-A132411 ..... 04 p0604 N84-13986 #
AD-A132418 ..... 04 p0520 N84-13417 #
AD-A132421 ..... 04 p0623 N84-14107 #
AD-A132425 ..... 04 p0549 N84-13615 #
AD-A132427 ..... 04 p0509 N84-13335 #
AD-A132429 ..... 04 p0612 N84-14038 #
AD-A132443 ..... 04 p0563 N84-13709 #
AD-A132448 ..... 04 p0544 N84-13581 #
AD-A132450 ..... 04 p0525 N84-13453 #
AD-A132455 ..... 04 p0481 N84-13166 #
AD-A132462 ..... 04 p0506 N84-13314 #
AD-A132466 ..... 04 p0592 N84-13906 #
AD-A132467 ..... 04 p0589 N84-13894 #
AD-A132471 ..... 04 p0567 N84-13738 #
AD-A132474 ..... 04 p0525 N84-13452 #
AD-A132479 ..... 04 p0487 N84-13201 #
AD-A132487 ..... 04 p0567 N84-13737 #
AD-A132491 ..... 04 p0489 N84-13214 #
AD-A132495 ..... 04 p0544 N84-13580 #
AD-A132496 ..... 05 p0712 N84-14668 #
AD-A132498 ..... 04 p0483 N84-13179 #
AD-A132499 ..... 04 p0589 N84-13893 #
AD-A132500 ..... 04 p0589 N84-13892 #
AD-A132501 ..... 04 p0589 N84-13891 #
AD-A132503 ..... 04 p0580 N84-13823 #
AD-A132505 ..... 04 p0486 N84-13196 #
AD-A132512 ..... 04 p0579 N84-13822 #
AD-A132514 ..... 04 p0505 N84-13313 #
AD-A132515 ..... 04 p0579 N84-13821 #
AD-A132516 ..... 04 p0509 N84-13334 #
AD-A132522 ..... 04 p0589 N84-13890 #
AD-A132526 ..... 04 p0563 N84-13708 #
AD-A132528 ..... 04 p0525 N84-13451 #
AD-A132534 ..... 05 p0732 N84-14806 #
AD-A132535 ..... 04 p0490 N84-13217 #
AD-A132536 ..... 04 p0525 N84-13450 #
AD-A132537 ..... 04 p0588 N84-13889 #
AD-A132538 ..... 04 p0579 N84-13820 #
AD-A132539 ..... 05 p0743 N84-14880 #
AD-A132540 ..... 05 p0712 N84-14662 #
AD-A132541 ..... 04 p0539 N84-13549 #
AD-A132543 ..... 04 p0596 N84-13934 #
AD-A132544 ..... 04 p0588 N84-13888 #
AD-A132545 ..... 04 p0612 N84-14037 #
AD-A132546 ..... 05 p0712 N84-14667 #
AD-A132547 ..... 05 p0684 N84-14494 #
AD-A132548 ..... 04 p0579 N84-13819 #
AD-A132549 ..... 04 p0617 N84-14072 #
AD-A132550 ..... 05 p0712 N84-14666 #
AD-A132551 ..... 04 p0509 N84-13333 #
AD-A132552 ..... 04 p0577 N84-13807 #
AD-A132553 ..... 04 p0533 N84-13504 #
AD-A132554 ..... 04 p0490 N84-13216 #
AD-A132564 ..... 04 p0525 N84-13449 #
AD-A132565 ..... 05 p0715 N84-14683 #
AD-A132566 ..... 17 p2671 N84-27027 #
AD-A132569 ..... 04 p0579 N84-13818 #
AD-A132574 ..... 04 p0588 N84-13887 #
AD-A132576 ..... 10 p1505 N84-19845 #
AD-A132577 ..... 04 p0573 N84-13773 #
AD-A132581 ..... 05 p0712 N84-14665 #
AD-A132582 ..... 04 p0498 N84-13269 #
AD-A132583 ..... 04 p0579 N84-13817 #
AD-A132586 ..... 04 p0491 N84-13225 #
AD-A132593 ..... 05 p0711 N84-14657 #
AD-A132595 ..... 05 p0629 N84-14136 #
AD-A132596 ..... 05 p0719 N84-14712 #
AD-A132597 ..... 05 p0669 N84-14401 #
AD-A132598 ..... 05 p0747 N84-14905 #
AD-A132599 ..... 05 p0735 N84-14826 #
AD-A132600 ..... 05 p0654 N84-14300 #
AD-A132605 ..... 05 p0735 N84-14827 #
AD-A132606 ..... 05 p0685 N84-14501 #
AD-A132608 ..... 05 p0690 N84-14531 #
AD-A132609 ..... 05 p0728 N84-14780 #
AD-A132611 ..... 05 p0728 N84-14781 #
AD-A132612 ..... 05 p0728 N84-14782 #
AD-A132613 ..... 05 p0708 N84-14642 #
AD-A132618 ..... 06 p0890 N84-15780 #
AD-A132621 ..... 05 p0645 N84-14245 #
AD-A132622 ..... 05 p0670 N84-14402 #
AD-A132623 ..... 05 p0709 N84-14643 #
AD-A132624 ..... 05 p0703 N84-14613 #
AD-A132630 ..... 05 p0670 N84-14403 #
AD-A132631 ..... 05 p0654 N84-14301 #
AD-A132633 ..... 05 p0629 N84-14137 #
AD-A132638 ..... 05 p0630 N84-14141 #
AD-A132639 ..... 05 p0735 N84-14828 #
AD-A132640 ..... 05 p0703 N84-14614 #
AD-A132643 ..... 05 p0703 N84-14615 #
AD-A132644 ..... 05 p0735 N84-14829 #
AD-A132645 ..... 05 p0670 N84-14404 #
AD-A132646 ..... 05 p0626 N84-14114 #
AD-A132648 ..... 05 p0716 N84-14692 #
AD-A132649 ..... 06 p0890 N84-15781 #
AD-A132652 ..... 05 p0735 N84-14830 #
AD-A132653 ..... 06 p0786 N84-15148 #
AD-A132657 ..... 05 p0719 N84-14713 #
AD-A132658 ..... 05 p0649 N84-14268 #
AD-A132659 ..... 05 p0747 N84-14906 #
AD-A132660 ..... 05 p0686 N84-14511 #
AD-A132670 ..... 05 p0703 N84-14616 #
AD-A132675 ..... 05 p0659 N84-14331 #
AD-A132676 ..... 05 p0759 N84-14979 #
AD-A132680 ..... 05 p0654 N84-14302 #
AD-A132681 ..... 05 p0728 N84-14783 #
AD-A132684 ..... 05 p0749 N84-14920 #
AD-A132687 ..... 05 p0754 N84-14945 #
AD-A132688 ..... 05 p0675 N84-14438 #
AD-A132689 ..... 05 p0749 N84-14921 #
AD-A132690 ..... 05 p0670 N84-14405 #
AD-A132698 ..... 05 p0649 N84-14269 #
AD-A132699 ..... 05 p0649 N84-14270 #
AD-A132700 ..... 05 p0736 N84-14831 #
AD-A132701 ..... 18 p2853 N84-28113 #
AD-A132704 ..... 05 p0713 N84-14674 #
AD-A132706 ..... 05 p0729 N84-14784 #
AD-A132717 ..... 05 p0729 N84-14785 #
AD-A132719 ..... 05 p0733 N84-14811 #
AD-A132722 ..... 05 p0729 N84-14786 #
AD-A132723 ..... 05 p0740 N84-14861 #
AD-A132726 ..... 05 p0744 N84-14888 #
AD-A132735 ..... 05 p0736 N84-14832 #
AD-A132738 ..... 05 p0643 N84-14232 #
AD-A132739 ..... 05 p0729 N84-14787 #
AD-A132740 ..... 05 p0729 N84-14788 #
AD-A132741 ..... 05 p0659 N84-14332 #
AD-A132742 ..... 05 p0650 N84-14271 #
AD-A132744 ..... 05 p0713 N84-14675 #
AD-A132745 ..... 05 p0719 N84-14714 #
AD-A132746 ..... 06 p0890 N84-15782 #
AD-A132747 ..... 06 p0890 N84-15783 #
AD-A132748 ..... 06 p0890 N84-15784 #

AD-A132760 ..... 05 p0681 N84-14347 #
AD-A132762 ..... 05 p0659 N84-14333 #
AD-A132764 ..... 18 p2944 N84-28670 #
AD-A132774 ..... 05 p0719 N84-14715 #
AD-A132782 ..... 05 p0650 N84-14272 #
AD-A132783 ..... 18 p2942 N84-28659 #
AD-A132794 ..... 18 p2928 N84-28570 #
AD-A132795 ..... 18 p2945 N84-28671 #
AD-A132796 ..... 05 p0736 N84-14833 #
AD-A132797 ..... 05 p0675 N84-14439 #
AD-A132805 ..... 05 p0736 N84-14834 #
AD-A132806 ..... 05 p0681 N84-14473 #
AD-A132807 ..... 05 p0736 N84-14835 #
AD-A132817 ..... 05 p0744 N84-14889 #
AD-A132820 ..... 05 p0736 N84-14836 #
AD-A132821 ..... 05 p0736 N84-14837 #
AD-A132823 ..... 05 p0737 N84-14838 #
AD-A132825 ..... 06 p0933 N84-16066 #
AD-A132827 ..... 05 p0737 N84-14839 #
AD-A132828 ..... 05 p0740 N84-14862 #
AD-A132831 ..... 06 p0886 N84-15759 #
AD-A132832 ..... 05 p0659 N84-14334 #
AD-A132833 ..... 05 p0655 N84-14303 #
AD-A132834 ..... 05 p0737 N84-14840 #
AD-A132835 ..... 05 p0737 N84-14841 #
AD-A132836 ..... 05 p0760 N84-14987 #
AD-A132837 ..... 05 p0740 N84-14863 #
AD-A132838 ..... 05 p0740 N84-14864 #
AD-A132839 ..... 05 p0737 N84-14842 #
AD-A132840 ..... 05 p0650 N84-14273 #
AD-A132841 ..... 06 p0932 N84-16059 #
AD-A132842 ..... 05 p0737 N84-14843 #
AD-A132843 ..... 05 p0681 N84-14474 #
AD-A132844 ..... 05 p0650 N84-14274 #
AD-A132845 ..... 05 p0681 N84-14475 #
AD-A132846 ..... 03 p0421 N84-12752 #
AD-A132848 ..... 05 p0646 N84-14246 #
AD-A132850 ..... 05 p0650 N84-14275 #
AD-A132851 ..... 05 p0741 N84-14865 #
AD-A132852 ..... 05 p0681 N84-14476 #
AD-A132853 ..... 05 p0655 N84-14304 #
AD-A132857 ..... 05 p0629 N84-14138 #
AD-A132858 ..... 05 p0681 N84-14477 #
AD-A132859 ..... 06 p0934 N84-16067 #
AD-A132860 ..... 05 p0738 N84-14844 #
AD-A132861 ..... 05 p0738 N84-14845 #
AD-A132862 ..... 05 p0681 N84-14478 #
AD-A132863 ..... 05 p0738 N84-14846 #
AD-A132871 ..... 05 p0766 N84-15024 #
AD-A132874 ..... 05 p0729 N84-14789 #
AD-A132876 ..... 05 p0663 N84-14356 #
AD-A132877 ..... 05 p0670 N84-14406 #
AD-A132878 ..... 05 p0690 N84-14532 #
AD-A132879 ..... 05 p0650 N84-14276 #
AD-A132881 ..... 05 p0675 N84-14440 #
AD-A132883 ..... 05 p0663 N84-14357 #
AD-A132884 ..... 05 p0754 N84-14946 #
AD-A132885 ..... 05 p0663 N84-14358 #
AD-A132889 ..... 05 p0709 N84-14644 #
AD-A132893 ..... 06 p0876 N84-15716 #
AD-A132896 ..... 05 p0659 N84-14335 #
AD-A132897 ..... 05 p0704 N84-14617 #
AD-A132898 ..... 06 p0934 N84-16068 #
AD-A132899 ..... 05 p0720 N84-14716 #
AD-A132903 ..... 05 p0730 N84-14790 #
AD-A132908 ..... 05 p0747 N84-14907 #
AD-A132915 ..... 05 p0720 N84-14717 #
AD-A132923 ..... 05 p0670 N84-14407 #
AD-A132924 ..... 05 p0644 N84-14237 #
AD-A132927 ..... 05 p0626 N84-14115 #
AD-A132928 ..... 05 p0655 N84-14305 #
AD-A132934 ..... 05 p0730 N84-14791 #
AD-A132939 ..... 03 p0421 N84-12751 #
AD-A132941 ..... 06 p0886 N84-15760 #
AD-A132945 ..... 05 p0720 N84-14718 #
AD-A132947 ..... 05 p0709 N84-14645 #
AD-A132956 ..... 05 p0700 N84-14593 #
AD-A132957 ..... 05 p0700 N84-14594 #
AD-A132958 ..... 05 p0700 N84-14595 #
AD-A132964 ..... 05 p0630 N84-14139 #
AD-A132970 ..... 18 p2844 N84-28060 #
AD-A132974 ..... 05 p0744 N84-14890 #
AD-A132981 ..... 05 p0716 N84-14693 #
AD-A132982 ..... 05 p0632 N84-14153 #
AD-A132986 ..... 05 p0754 N84-14947 #
AD-A132990 ..... 05 p0757 N84-14966 #
AD-A132991 ..... 05 p0655 N84-14306 #
AD-A132992 ..... 05 p0754 N84-14948 #
AD-A132998 ..... 05 p0759 N84-14980 #
AD-A132999 ..... 18 p2821 N84-27914 #
AD-A133008 ..... 05 p0626 N84-14127 #
AD-A133010 ..... 05 p0747 N84-14908 #
AD-A133023 ..... 05 p0757 N84-14967 #
AD-A133027 ..... 05 p0693 N84-14552 #
AD-A133030 ..... 05 p0676 N84-14441 #
AD-A133045 ..... 05 p0676 N84-14442 #
AD-A133050 ..... 05 p0660 N84-14336 #
AD-A133051 ..... 06 p0885 N84-15754 #
AD-A133052 ..... 06 p0892 N84-15796 #
AD-A133053 ..... 05 p0712 N84-14663 #
AD-A133056 ..... 05 p0655 N84-14307 #
AD-A133064 ..... 05 p0670 N84-14408 #
AD-A133069 ..... 05 p0660 N84-14337 #
AD-A133070 ..... 05 p0730 N84-14792 #
AD-A133072 ..... 05 p0681 N84-14479 #
AD-A133074 ..... 05 p0663 N84-14359 #
AD-A133077 ..... 05 p0730 N84-14793 #
AD-A133081 ..... 04 p0528 N84-13470 #
AD-A133087 ..... 05 p0738 N84-14847 #
AD-A133089 ..... 05 p0745 N84-14891 #
AD-A133091 ..... 05 p0662 N84-14348 #
AD-A133093 ..... 06 p0892 N84-15797 #
AD-A133102 ..... 05 p0745 N84-14892 #
AD-A133110 ..... 06 p0917 N84-15961 #
AD-A133113 ..... 06 p0885 N84-15757 #
AD-A133114 ..... 06 p0922 N84-15994 #
AD-A133117 ..... 11 p1750 N84-21419 #
AD-A133119 ..... 06 p0885 N84-15753 #
AD-A133123 ..... 06 p0922 N84-15995 #
AD-A133127 ..... 06 p0852 N84-15556 #
AD-A133128 ..... 06 p0822 N84-15361 #
AD-A133136 ..... 06 p0866 N84-15639 #
AD-A133137 ..... 06 p0908 N84-15900 #
AD-A133139 ..... 06 p0844 N84-15503 #
AD-A133141 ..... 06 p0822 N84-15362 #
AD-A133142 ..... 06 p0900 N84-15843 #
AD-A133143 ..... 07 p0963 N84-16245 #
AD-A133145 ..... 06 p0823 N84-15363 #
AD-A133148 ..... 06 p0886 N84-15758 #
AD-A133150 ..... 06 p0889 N84-15777 #
AD-A133151 ..... 07 p1047 N84-16792 #
AD-A133152 ..... 06 p0920 N84-15982 #
AD-A133153 ..... 06 p0900 N84-15844 #
AD-A133156 ..... 06 p0908 N84-15901 #
AD-A133158 ..... 06 p0853 N84-15557 #
AD-A133159 ..... 07 p1041 N84-16748 #
AD-A133161 ..... 06 p0768 N84-15033 #
AD-A133167 ..... 06 p0796 N84-15184 #
AD-A133168 ..... 06 p0823 N84-15364 #
AD-A133170 ..... 07 p1093 N84-17106 #
AD-A133172 ..... 07 p1049 N84-16796 #
AD-A133173 ..... 06 p0847 N84-15523 #
AD-A133174 ..... 06 p0893 N84-15801 #
AD-A133178 ..... 07 p1042 N84-16757 #
AD-A133181 ..... 06 p0847 N84-15524 #
AD-A133183 ..... 06 p0914 N84-15942 #
AD-A133186 ..... 06 p0914 N84-15943 #
AD-A133187 ..... 06 p0922 N84-15996 #
AD-A133188 ..... 06 p0783 N84-15126 #
AD-A133189 ..... 06 p0901 N84-15845 #
AD-A133201 ..... 06 p0893 N84-15802 #
AD-A133202 ..... 06 p0801 N84-15220 #
AD-A133203 ..... 06 p0823 N84-15365 #
AD-A133206 ..... 06 p0806 N84-15251 #
AD-A133207 ..... 06 p0893 N84-15803* #
AD-A133208 ..... 06 p0785 N84-15140 #
AD-A133209 ..... 06 p0829 N84-15396 #
AD-A133211 ..... 06 p0849 N84-15538 #
AD-A133212 ..... 06 p0783 N84-15127 #
AD-A133213 ..... 06 p0801 N84-15221 #
AD-A133215 ..... 06 p0812 N84-15285 #
AD-A133220 ..... 07 p1049 N84-16797 #
AD-A133221 ..... 06 p0889 N84-15778 #
AD-A133222 ..... 06 p0788 N84-15150 #
AD-A133223 ..... 07 p1041 N84-16749 #
AD-A133233 ..... 06 p0784 N84-15137 #
AD-A133236 ..... 06 p0904 N84-15867 #
AD-A133238 ..... 06 p0792 N84-15162 #
AD-A133239 ..... 06 p0897 N84-15823 #
AD-A133241 ..... 06 p0823 N84-15366 #
AD-A133242 ..... 06 p0812 N84-15286 #
AD-A133245 ..... 06 p0909 N84-15902 #
AD-A133248 ..... 06 p0895 N84-15812 #
AD-A133250 ..... 06 p0909 N84-15903 #
AD-A133251 ..... 06 p0847 N84-15525 #
AD-A133252 ..... 06 p0901 N84-15846 #
AD-A133253 ..... 06 p0904 N84-15868 #
AD-A133254 ..... 06 p0914 N84-15944 #
AD-A133258 ..... 06 p0849 N84-15539 #
AD-A133259 ..... 07 p1049 N84-16798 #
AD-A133260 ..... 06 p0901 N84-15847 #
AD-A133264 ..... 06 p0895 N84-15813 #
AD-A133266 ..... 06 p0909 N84-15904 #
AD-A133272 ..... 06 p0873 N84-15684 #
AD-A133274 ..... 06 p0791 N84-15160 #
AD-A133279 ..... 06 p0823 N84-15367 #
AD-A133281 ..... 06 p0829 N84-15397 #
AD-A133282 ..... 06 p0891 N84-15793 #
AD-A133285 ..... 06 p0933 N84-16062 #
AD-A133286 ..... 06 p0823 N84-15368 #
AD-A133287 ..... 06 p0901 N84-15848 #
AD-A133288 ..... 06 p0918 N84-15962 #

AD-A133289 ..... 06 p0844 N84-15504 #
AD-A133290 ..... 06 p0830 N84-15398 #
AD-A133291 ..... 06 p0914 N84-15945 #
AD-A133295 ..... 06 p0850 N84-15540 #
AD-A133296 ..... 06 p0933 N84-16063 #
AD-A133297 ..... 06 p0896 N84-15814 #
AD-A133298 ..... 06 p0893 N84-15804 #
AD-A133299 ..... 06 p0901 N84-15849 #
AD-A133301 ..... 06 p0796 N84-15185 #
AD-A133305 ..... 06 p0798 N84-15204 #
AD-A133310 ..... 06 p0915 N84-15946 #
AD-A133319 ..... 06 p0786 N84-15146 #
AD-A133321 ..... 06 p0850 N84-15541 #
AD-A133322 ..... 06 p0850 N84-15542 #
AD-A133325 ..... 06 p0830 N84-15399 #
AD-A133326 ..... 06 p0932 N84-16058 #
AD-A133327 ..... 06 p0850 N84-15543 #
AD-A133328 ..... 06 p0854 N84-15566 #
AD-A133330 ..... 06 p0847 N84-15526 #
AD-A133331 ..... 06 p0799 N84-15205 #
AD-A133334 ..... 06 p0850 N84-15544 #
AD-A133335 ..... 06 p0918 N84-15963 #
AD-A133336 ..... 06 p0904 N84-15869 #
AD-A133337 ..... 06 p0915 N84-15947 #
AD-A133338 ..... 06 p0915 N84-15948 #
AD-A133343 ..... 07 p0950 N84-16161 #
AD-A133347 ..... 07 p1051 N84-16810 #
AD-A133348 ..... 07 p0968 N84-16272 #
AD-A133349 ..... 07 p1041 N84-16750 #
AD-A133350 ..... 07 p1002 N84-16501 #
AD-A133354 ..... 07 p1052 N84-16811 #
AD-A133360 ..... 07 p0998 N84-16469 #
AD-A133364 ..... 06 p0812 N84-15287 #
AD-A133367 ..... 06 p0824 N84-15369 #
AD-A133369 ..... 06 p0812 N84-15288 #
AD-A133370 ..... 06 p0866 N84-15640 #
AD-A133371 ..... 06 p0824 N84-15370 #
AD-A133372 ..... 06 p0896 N84-15815 #
AD-A133380 ..... 06 p0784 N84-15138 #
AD-A133382 ..... 07 p1042 N84-16758 #
AD-A133383 ..... 06 p0801 N84-15222 #
AD-A133385 ..... 06 p0897 N84-15824 #
AD-A133386 ..... 06 p0790 N84-15157 #
AD-A133387 ..... 06 p0904 N84-15870 #
AD-A133389 ..... 06 p0935 N84-16077 #
AD-A133391 ..... 06 p0915 N84-15949 #
AD-A133394 ..... 07 p1050 N84-16799 #
AD-A133399 ..... 06 p0793 N84-15169 #
AD-A133401 ..... 06 p0824 N84-15371 #
AD-A133402 ..... 06 p0922 N84-15997* #
AD-A133403 ..... 06 p0810 N84-15272 #
AD-A133404 ..... 06 p0933 N84-16064 #
AD-A133405 ..... 06 p0904 N84-15871 #
AD-A133406 ..... 06 p0901 N84-15850 #
AD-A133408 ..... 06 p0791 N84-15158 #
AD-A133411 ..... 06 p0795 N84-15181 #
AD-A133415 ..... 06 p0786 N84-15147 #
AD-A133416 ..... 06 p0901 N84-15851 #
AD-A133417 ..... 06 p0899 N84-15838 #
AD-A133418 ..... 06 p0905 N84-15872 #
AD-A133420 ..... 06 p0801 N84-15223 #
AD-A133424 ..... 06 p0855 N84-15567 #
AD-A133426 ..... 06 p0896 N84-15816 #
AD-A133427 ..... 06 p0824 N84-15372 #
AD-A133431 ..... 03 p0420 N84-12741
AD-A133432 ..... 06 p0822 N84-15357 #
AD-A133438 ..... 06 p0894 N84-15805 #
AD-A133439 ..... 06 p0850 N84-15545 #
AD-A133440 ..... 06 p0810 N84-15273 #
AD-A133441 ..... 07 p1050 N84-16800 #
AD-A133447 ..... 06 p0897 N84-15825 #
AD-A133448 ..... 06 p0894 N84-15806 #
AD-A133449 ..... 06 p0915 N84-15950 #
AD-A133451 ..... 06 p0853 N84-15558 #
AD-A133458 ..... 06 p0905 N84-15873 #
AD-A133459 ..... 06 p0897 N84-15826 #
AD-A133460 ..... 06 p0806 N84-15252 #
AD-A133461 ..... 06 p0785 N84-15141 #
AD-A133462 ..... 06 p0920 N84-15983 #
AD-A133467 ..... 04 p0541 N84-13565 #
AD-A133468 ..... 06 p0844 N84-15505 #
AD-A133474 ..... 03 p0418 N84-12729
AD-A133475 ..... 06 p0853 N84-15559 #
AD-A133477 ..... 06 p0898 N84-15827 #
AD-A133479 ..... 06 p0810 N84-15274 #
AD-A133480 ..... 06 p0935 N84-16078 #
AD-A133482 ..... 06 p0905 N84-15874 #
AD-A133483 ..... 06 p0866 N84-15641 #
AD-A133485 ..... 06 p0799 N84-15206 #
AD-A133486 ..... 06 p0824 N84-15373 #
AD-A133487 ..... 06 p0855 N84-15568 #
AD-A133489 ..... 06 p0918 N84-15964 #
AD-A133490 ..... 06 p0799 N84-15207 #
AD-A133491 ..... 06 p0830 N84-15400 #
AD-A133492 ..... 06 p0894 N84-15807 #
AD-A133493 ..... 06 p0898 N84-15828 #
AD-A133495 ..... 06 p0866 N84-15642 #
AD-A133498 ..... 06 p0824 N84-15374 #
AD-A133500 ..... 06 p0923 N84-15998 #
AD-A133501 ..... 06 p0874 N84-15685 #
AD-A133504 ..... 06 p0902 N84-15852 #
AD-A133506 ..... 06 p0882 N84-15734 #
AD-A133507 ..... 06 p0894 N84-15808 #
AD-A133508 ..... 06 p0850 N84-15546 #
AD-A133509 ..... 06 p0926 N84-16017 #
AD-A133513 ..... 06 p0923 N84-15999 #
AD-A133514 ..... 06 p0874 N84-15686 #
AD-A133516 ..... 06 p0915 N84-15951 #
AD-A133517 ..... 06 p0844 N84-15506 #
AD-A133518 ..... 06 p0894 N84-15809 #
AD-A133519 ..... 06 p0801 N84-15224 #
AD-A133525 ..... 06 p0824 N84-15375 #
AD-A133526 ..... 07 p1042 N84-16759 #
AD-A133527 ..... 06 p0810 N84-15275 #
AD-A133528 ..... 06 p0825 N84-15376 #
AD-A133529 ..... 06 p0898 N84-15829 #
AD-A133530 ..... 06 p0918 N84-15965 #
AD-A133541 ..... 06 p0801 N84-15225 #
AD-A133543 ..... 06 p0813 N84-15289 #
AD-A133544 ..... 06 p0892 N84-15794 #
AD-A133545 ..... 06 p0899 N84-15835 #
AD-A133552 ..... 06 p0847 N84-15527 #
AD-A133553 ..... 06 p0938 N84-16096 #
AD-A133554 ..... 06 p0825 N84-15377 #
AD-A133555 ..... 06 p0825 N84-15378 #
AD-A133556 ..... 06 p0923 N84-16000 #
AD-A133557 ..... 06 p0882 N84-15735 #
AD-A133558 ..... 06 p0935 N84-16079 #
AD-A133559 ..... 06 p0898 N84-15830 #
AD-A133569 ..... 06 p0923 N84-16001 #
AD-A133570 ..... 06 p0830 N84-15401 #
AD-A133571 ..... 06 p0933 N84-16065 #
AD-A133572 ..... 06 p0825 N84-15379 #
AD-A133574 ..... 06 p0878 N84-15714 #
AD-A133575 ..... 06 p0918 N84-15966 #
AD-A133576 ..... 06 p0902 N84-15853 #
AD-A133587 ..... 06 p0825 N84-15380 #
AD-A133588 ..... 06 p0848 N84-15526 #
AD-A133589 ..... 07 p1050 N84-16801 #
AD-A133590 ..... 06 p0866 N84-15643 #
AD-A133591 ..... 06 p0896 N84-15817 #
AD-A133592 ..... 06 p0900 N84-15839 #
AD-A133593 ..... 06 p0923 N84-16002 #
AD-A133594 ..... 07 p1047 N84-16793 #
AD-A133595 ..... 06 p0878 N84-15715 #
AD-A133596 ..... 06 p0861 N84-15610 #
AD-A133597 ..... 06 p0889 N84-15779 #
AD-A133598 ..... 06 p0806 N84-15253 #
AD-A133600 ..... 06 p0861 N84-15611 #
AD-A133601 ..... 06 p0825 N84-15381 #
AD-A133602 ..... 06 p0892 N84-15795 #
AD-A133603 ..... 06 p0797 N84-15193 #
AD-A133612 ..... 07 p1050 N84-16802 #
AD-A133613 ..... 07 p1085 N84-17055 #
AD-A133614 ..... 06 p0905 N84-15878 #
AD-A133617 ..... 06 p0793 N84-15170 #
AD-A133618 ..... 06 p0882 N84-15736 #
AD-A133619 ..... 05 p0689 N84-14530 #
AD-A133620 ..... 06 p0941 N84-16113 #
AD-A133624 ..... 05 p0689 N84-14529 #
AD-A133625 ..... 05 p0689 N84-14528 #
AD-A133626 ..... 05 p0689 N84-14400 #
AD-A133628 ..... 05 p0628 N84-14131 #
AD-A133630 ..... 05 p0741 N84-14868 #
AD-A133631 ..... 05 p0716 N84-14691 #
AD-A133632 ..... 05 p0732 N84-14810 #
AD-A133633 ..... 05 p0732 N84-14809 #
AD-A133634 ..... 06 p0891 N84-15792 #
AD-A133636 ..... 05 p0713 N84-14673 #
AD-A133637 ..... 05 p0713 N84-14672 #
AD-A133642 ..... 05 p0719 N84-14711 #
AD-A133643 ..... 05 p0728 N84-14779 #
AD-A133645 ..... 05 p0659 N84-14330 #
AD-A133649 ..... 05 p0740 N84-14860 #
AD-A133651 ..... 05 p0719 N84-14710 #
AD-A133652 ..... 05 p0742 N84-14871 #
AD-A133654 ..... 05 p0735 N84-14825 #
AD-A133656 ..... 05 p0649 N84-14267 #
AD-A133657 ..... 05 p0735 N84-14824 #
AD-A133658 ..... 05 p0675 N84-14437 #
AD-A133659 ..... 05 p0742 N84-14877 #
AD-A133660 ..... 05 p0675 N84-14436 #
AD-A133661 ..... 05 p0675 N84-14435 #
AD-A133666 ..... 05 p0693 N84-14551 #
AD-A133667 ..... 05 p0669 N84-14399 #
AD-A133668 ..... 06 p0940 N84-16110 #
AD-A133669 ..... 05 p0654 N84-14299 #
AD-A133672 ..... 05 p0697 N84-14577 #
AD-A133674 ..... 05 p0754 N84-14944 #
AD-A133675 ..... 03 p0317 N84-12072 #
AD-A133676 ..... 05 p0669 N84-14398 #
AD-A133679 ..... 05 p0749 N84-14919 #

AD-A133680 ..... 05 p0661 N84-14346 #
AD-A133681 ..... 05 p0680 N84-14472 #
AD-A133682 ..... 16 p2485 N84-25940 #
AD-A133684 ..... 05 p0627 N84-14126 #
AD-A133687 ..... 05 p0685 N84-14500 #
AD-A133688 ..... 05 p0716 N84-14690 #
AD-A133691 ..... 05 p0740 N84-14859 #
AD-A133692 ..... 05 p0675 N84-14434 #
AD-A133694 ..... 06 p0889 N84-15776 #
AD-A133697 ..... 05 p0659 N84-14329 #
AD-A133699 ..... 05 p0728 N84-14778 #
AD-A133701 ..... 05 p0689 N84-14527 #
AD-A133702 ..... 05 p0669 N84-14397 #
AD-A133703 ..... 05 p0740 N84-14858 #
AD-A133708 ..... 10 p1506 N84-19849 #
AD-A133710 ..... 20 p3278 N84-30808* #
AD-A133718 ..... 05 p0703 N84-14612 #
AD-A133719 ..... 05 p0728 N84-14777 #
AD-A133720 ..... 06 p0897 N84-15822 #
AD-A133721 ..... 05 p0735 N84-14823 #
AD-A133726 ..... 05 p0734 N84-14822 #
AD-A133732 ..... 05 p0658 N84-14328 #
AD-A133733 ..... 05 p0668 N84-14396 #
AD-A133734 ..... 05 p0668 N84-14395 #
AD-A133735 ..... 05 p0668 N84-14394 #
AD-A133736 ..... 05 p0693 N84-14550 #
AD-A133739 ..... 05 p0706 N84-14641 #
AD-A133740 ..... 06 p0889 N84-15775 #
AD-A133741 ..... 05 p0734 N84-14821 #
AD-A133744 ..... 05 p0747 N84-14904 #
AD-A133746 ..... 05 p0658 N84-14327 #
AD-A133747 ..... 05 p0649 N84-14266 #
AD-A133753 ..... 06 p0884 N84-15752 #
AD-A133754 ..... 06 p0884 N84-15751 #
AD-A133755 ..... 05 p0627 N84-14125 #
AD-A133757 ..... 05 p0744 N84-14887 #
AD-A133758 ..... 05 p0754 N84-14943 #
AD-A133759 ..... 05 p0753 N84-14942 #
AD-A133760 ..... 05 p0739 N84-14857 #
AD-A133761 ..... 05 p0693 N84-14549 #
AD-A133762 ..... 05 p0693 N84-14548 #
AD-A133763 ..... 05 p0739 N84-14856 #
AD-A133766 ..... 05 p0732 N84-14806 #
AD-A133769 ..... 05 p0660 N84-14471 #
AD-A133770 ..... 05 p0753 N84-14941 #
AD-A133772 ..... 05 p0684 N84-14499 #
AD-A133774 ..... 05 p0675 N84-14433 #
AD-A133775 ..... 05 p0680 N84-14470 #
AD-A133779 ..... 05 p0642 N84-14224 #
AD-A133780 ..... 05 p0668 N84-14393 #
AD-A133782 ..... 05 p0742 N84-14876 #
AD-A133785 ..... 05 p0625 N84-14113 #
AD-A133786 ..... 05 p0741 N84-14870 #
AD-A133788 ..... 05 p0642 N84-14226 #
AD-A133789 ..... 05 p0642 N84-14225 #
AD-A133790 ..... 05 p0668 N84-14392 #
AD-A133791 ..... 05 p0668 N84-14391 #
AD-A133792 ..... 05 p0765 N84-15021 #
AD-A133794 ..... 05 p0716 N84-14689 #
AD-A133796 ..... 01 p0014 N84-10093 #
AD-A133801 ..... 05 p0648 N84-14265 #
AD-A133802 ..... 05 p0632 N84-14152 #
AD-A133803 ..... 05 p0699 N84-14588 #
AD-A133804 ..... 05 p0663 N84-14355 #
AD-A133805 ..... 05 p0667 N84-14390 #
AD-A133806 ..... 05 p0648 N84-14264 #
AD-A133807 ..... 05 p0739 N84-14855 #
AD-A133808 ..... 05 p0680 N84-14469 #
AD-A133809 ..... 05 p0692 N84-14547 #
AD-A133810 ..... 05 p0734 N84-14820 #
AD-A133811 ..... 05 p0648 N84-14263 #
AD-A133812 ..... 06 p0884 N84-15750 #
AD-A133813 ..... 05 p0667 N84-14389 #
AD-A133815 ..... 05 p0648 N84-14262 #
AD-A133816 ..... 05 p0749 N84-14918 #
AD-A133817 ..... 05 p0753 N84-14940 #
AD-A133818 ..... 05 p0692 N84-14546 #
AD-A133830 ..... 05 p0684 N84-14498 #
AD-A133835 ..... 05 p0708 N84-14640 #
AD-A133836 ..... 05 p0648 N84-14261 #
AD-A133844 ..... 05 p0713 N84-14671 #
AD-A133846 ..... 05 p0654 N84-14298 #
AD-A133847 ..... 05 p0739 N84-14854 #
AD-A133848 ..... 05 p0739 N84-14853 #
AD-A133849 ..... 05 p0731 N84-14802 #
AD-A133851 ..... 05 p0674 N84-14432 #
AD-A133852 ..... 05 p0674 N84-14431 #
AD-A133853 ..... 05 p0632 N84-14151 #
AD-A133855 ..... 05 p0674 N84-14430 #
AD-A133856 ..... 05 p0753 N84-14939 #
AD-A133860 ..... 05 p0648 N84-14260 #
AD-A133861 ..... 05 p0753 N84-14938 #
AD-A133862 ..... 05 p0753 N84-14937 #
AD-A133863 ..... 05 p0645 N84-14244 #
AD-A133864 ..... 05 p0648 N84-14259 #
AD-A133865 ..... 05 p0718 N84-14709 #
AD-A133870 ..... 05 p0715 N84-14688 #
AD-A133871 ..... 06 p0891 N84-15791 #
AD-A133873 ..... 06 p0806 N84-15250 #
AD-A133874 ..... 05 p0647 N84-14258 #
AD-A133876 ..... 05 p0667 N84-14388 #
AD-A133877 ..... 06 p0884 N84-15749 #
AD-A133879 ..... 05 p0727 N84-14776 #
AD-A133880 ..... 05 p0674 N84-14429 #
AD-A133881 ..... 05 p0667 N84-14387 #
AD-A133882 ..... 05 p0645 N84-14243 #
AD-A133883 ..... 05 p0711 N84-14659 #
AD-A133889 ..... 05 p0684 N84-14497 #
AD-A133891 ..... 06 p0888 N84-15774 #
AD-A133892 ..... 05 p0697 N84-14576 #
AD-A133894 ..... 05 p0680 N84-14468 #
AD-A133895 ..... 05 p0734 N84-14819 #
AD-A133896 ..... 05 p0647 N84-14257 #
AD-A133898 ..... 05 p0703 N84-14611 #
AD-A133899 ..... 05 p0753 N84-14936 #
AD-A133900 ..... 05 p0643 N84-14231 #
AD-A133902 ..... 05 p0647 N84-14256 #
AD-A133905 ..... 05 p0732 N84-14807 #
AD-A133906 ..... 06 p0881 N84-15609 #
AD-A133907 ..... 06 p0940 N84-16109 #
AD-A133908 ..... 06 p0888 N84-15773 #
AD-A133917 ..... 06 p0888 N84-15772 #
AD-A133918 ..... 05 p0627 N84-14124 #
AD-A133921 ..... 05 p0713 N84-14670 #
AD-A133922 ..... 05 p0739 N84-14852 #
AD-A133923 ..... 05 p0674 N84-14428 #
AD-A133924 ..... 05 p0647 N84-14255 #
AD-A133925 ..... 05 p0647 N84-14254 #
AD-A133927 ..... 05 p0667 N84-14386 #
AD-A133928 ..... 06 p0888 N84-15771 #
AD-A133931 ..... 05 p0625 N84-14112 #
AD-A133932 ..... 05 p0759 N84-14978 #
AD-A133935 ..... 05 p0692 N84-14545 #
AD-A133938 ..... 05 p0759 N84-14977 #
AD-A133939 ..... 06 p0884 N84-15748 #
AD-A133940 ..... 06 p0884 N84-15747 #
AD-A133942 ..... 05 p0744 N84-14886 #
AD-A133945 ..... 05 p0667 N84-14385 #
AD-A133946 ..... 05 p0734 N84-14818 #
AD-A133947 ..... 05 p0654 N84-14297 #
AD-A133948 ..... 05 p0718 N84-14708 #
AD-A133949 ..... 05 p0727 N84-14775 #
AD-A133950 ..... 01 p0013 N84-10082 #
AD-A133951 ..... 05 p0647 N84-14253 #
AD-A133952 ..... 06 p0888 N84-15770 #
AD-A133957 ..... 05 p0646 N84-14252 #
AD-A133966 ..... 05 p0734 N84-14817 #
AD-A133967 ..... 05 p0667 N84-14384 #
AD-A133969 ..... 05 p0744 N84-14885 #
AD-A133970 ..... 05 p0680 N84-14467 #
AD-A133975 ..... 05 p0749 N84-14917 #
AD-A133976 ..... 05 p0645 N84-14251 #
AD-A133977 ..... 05 p0631 N84-14150 #
AD-A133978 ..... 05 p0666 N84-14383 #
AD-A133981 ..... 02 p0169 N84-11116 #
AD-A133984 ..... 05 p0674 N84-14427 #
AD-A133992 ..... 05 p0631 N84-14149 #
AD-A133995 ..... 06 p0883 N84-15746 #
AD-A133996 ..... 03 p0314 N84-12050 #
AD-A133997 ..... 05 p0653 N84-14296 #
AD-A133999 ..... 05 p0708 N84-14639 #
AD-A134000 ..... 05 p0702 N84-14610 #
AD-A134002 ..... 05 p0679 N84-14466 #
AD-A134003 ..... 05 p0727 N84-14774 #
AD-A134005 ..... 06 p0883 N84-15745 #
AD-A134007 ..... 05 p0763 N84-15005 #
AD-A134008 ..... 05 p0743 N84-14884 #
AD-A134011 ..... 05 p0666 N84-14382 #
AD-A134016 ..... 05 p0708 N84-14638 #
AD-A134019 ..... 05 p0658 N84-14326 #
AD-A134025 ..... 05 p0743 N84-14883 #
AD-A134031 ..... 05 p0674 N84-14426 #
AD-A134032 ..... 05 p0727 N84-14773 #
AD-A134033 ..... 05 p0727 N84-14772 #
AD-A134034 ..... 05 p0653 N84-14295 #
AD-A134035 ..... 05 p0681 N84-14345 #
AD-A134038 ..... 06 p0878 N84-15713 #
AD-A134039 ..... 05 p0643 N84-14229 #
AD-A134041 ..... 04 p0529 N84-13483 #
AD-A134042 ..... 05 p0715 N84-14687 #
AD-A134043 ..... 05 p0662 N84-14354 #
AD-A134046 ..... 05 p0679 N84-14465 #
AD-A134050 ..... 05 p0715 N84-14686 #
AD-A134052 ..... 05 p0759 N84-14976 #
AD-A134054 ..... 05 p0653 N84-14294 #
AD-A134056 ..... 05 p0658 N84-14325 #
AD-A134058 ..... 01 p0032 N84-10203 #
AD-A134059 ..... 05 p0645 N84-14242 #
AD-A134068 ..... 05 p0743 N84-14882 #
AD-A134069 ..... 05 p0741 N84-14867 #
AD-A134070 ..... 05 p0727 N84-14771 #
AD-A134071 ..... 06 p0883 N84-15744 #

AD-A134073 05 p0688 N84-14520 #
AD-A134074 06 p0933 N84-16061 #
AD-A134077 06 p0878 N84-15712 #
AD-A134078 05 p0727 N84-14770 #
AD-A134079 06 p0885 N84-15756 #
AD-A134080 05 p0726 N84-14769 #
AD-A134086 06 p0887 N84-15769 #
AD-A134087 05 p0666 N84-14381 #
AD-A134089 05 p0726 N84-14768 #
AD-A134091 05 p0726 N84-14767 #
AD-A134092 05 p0726 N84-14766 #
AD-A134093 05 p0743 N84-14881 #
AD-A134094 05 p0752 N84-14935 #
AD-A134095 05 p0752 N84-14934 #
AD-A134097 05 p0742 N84-14875 #
AD-A134098 05 p0733 N84-14816 #
AD-A134099 05 p0752 N84-14933 #
AD-A134101 05 p0747 N84-14903 #
AD-A134102 05 p0726 N84-14765 #
AD-A134104 06 p0900 N84-15842 #
AD-A134108 05 p0653 N84-14293 #
AD-A134109 05 p0733 N84-14815 #
AD-A134110 05 p0726 N84-14764 #
AD-A134112 05 p0715 N84-14685 #
AD-A134114 05 p0673 N84-14425 #
AD-A134116 05 p0629 N84-14135 #
AD-A134120 05 p0653 N84-14292 #
AD-A134123 05 p0630 N84-14140 #
AD-A134124 05 p0718 N84-14707 #
AD-A134125 05 p0746 N84-14902 #
AD-A134128 05 p0733 N84-14814 #
AD-A134129 05 p0684 N84-14496 #
AD-A134132 05 p0653 N84-14291 #
AD-A134138 05 p0686 N84-14510 #
AD-A134139 07 p1008 N84-16533 #
AD-A134140 07 p1079 N84-17018 #
AD-A134141 07 p1061 N84-16878 #
AD-A134146 07 p1033 N84-16705 #
AD-A134150 07 p1027 N84-16657 #
AD-A134163 07 p1061 N84-16879 #
AD-A134165 07 p0967 N84-16267 #
AD-A134166 07 p1084 N84-17048 #
AD-A134167 07 p1084 N84-17049 #
AD-A134168 07 p1034 N84-16706 #
AD-A134171 07 p0967 N84-16268 #
AD-A134172 07 p1061 N84-16880 #
AD-A134174 07 p0967 N84-16269 #
AD-A134178 07 p0948 N84-16149 #
AD-A134180 07 p1067 N84-16924 #
AD-A134181 07 p1070 N84-16950 #
AD-A134182 08 p1244 N84-18133 #
AD-A134183 07 p1080 N84-17019 #
AD-A134185 07 p1051 N84-16807 #
AD-A134186 07 p1036 N84-16722 #
AD-A134187 07 p1054 N84-16825 #
AD-A134190 07 p1054 N84-16826 #
AD-A134194 07 p0992 N84-16431 #
AD-A134195 08 p1125 N84-17315 #
AD-A134197 07 p1061 N84-16881 #
AD-A134198 07 p1036 N84-16723 #
AD-A134199 07 p1036 N84-16724 #
AD-A134200 07 p1037 N84-16725 #
AD-A134201 07 p1037 N84-16726 #
AD-A134202 07 p1037 N84-16727 #
AD-A134203 07 p1037 N84-16728 #
AD-A134204 07 p1037 N84-16729 #
AD-A134205 07 p1038 N84-16730 #
AD-A134206 07 p1038 N84-16731 #
AD-A134207 07 p1038 N84-16732 #
AD-A134208 07 p1038 N84-16733 #
AD-A134209 07 p1038 N84-16734 #
AD-A134210 07 p1038 N84-16735 #
AD-A134211 07 p1039 N84-16736 #
AD-A134226 07 p1054 N84-16827 #
AD-A134227 07 p1016 N84-16592 #
AD-A134228 07 p0992 N84-16432 #
AD-A134230 07 p0948 N84-16150 #
AD-A134234 08 p1196 N84-17796 #
AD-A134236 07 p1054 N84-16828 #
AD-A134237 07 p1051 N84-16808 #
AD-A134239 07 p1052 N84-16813 #
AD-A134244 08 p1196 N84-17797 #
AD-A134249 07 p1055 N84-16829 #
AD-A134250 07 p1026 N84-16646 #
AD-A134255 07 p1067 N84-16925 #
AD-A134257 07 p0974 N84-16313 #
AD-A134260 07 p1076 N84-16994 #
AD-A134263 07 p1039 N84-16737 #
AD-A134270 07 p1009 N84-16545 #
AD-A134272 08 p1240 N84-18109 #
AD-A134274 07 p1034 N84-16707* #
AD-A134276 07 p0985 N84-16382 #
AD-A134280 07 p0945 N84-16128 #
AD-A134281 07 p0992 N84-16433 #
AD-A134282 07 p1009 N84-16546 #
AD-A134283 07 p0968 N84-16270 #
AD-A134285 07 p1075 N84-16987 #
AD-A134289 07 p0951 N84-16169 #
AD-A134291 07 p0969 N84-16281 #
AD-A134296 07 p1075 N84-16988 #
AD-A134298 07 p1057 N84-16848* #
AD-A134299 07 p1071 N84-16960 #
AD-A134300 07 p0993 N84-16434 #
AD-A134301 07 p0993 N84-16435 #
AD-A134307 07 p1039 N84-16738 #
AD-A134310 07 p1080 N84-17020 #
AD-A134311 08 p1203 N84-17842 #
AD-A134312 07 p1039 N84-16739 #
AD-A134318 16 p2580 N84-26550* #
AD-A134319 08 p1146 N84-17456 #
AD-A134320 07 p0951 N84-16170 #
AD-A134321 07 p0951 N84-16171 #
AD-A134322 07 p0951 N84-16172 #
AD-A134323 07 p0951 N84-16173 #
AD-A134324 08 p1203 N84-17843 #
AD-A134325 07 p1071 N84-16961 #
AD-A134327 07 p0993 N84-16436 #
AD-A134332 07 p1080 N84-17021 #
AD-A134333 07 p1009 N84-16547 #
AD-A134335 08 p1203 N84-17844 #
AD-A134342 07 p1016 N84-16593 #
AD-A134343 07 p0985 N84-16383 #
AD-A134344 07 p1080 N84-17022 #
AD-A134345 07 p1070 N84-16951 #
AD-A134350 07 p0997 N84-16465 #
AD-A134352 07 p1080 N84-17023 #
AD-A134356 07 p1084 N84-17052 #
AD-A134357 07 p1002 N84-16496 #
AD-A134358 08 p1197 N84-17806 #
AD-A134360 07 p1084 N84-17053 #
AD-A134363 07 p1055 N84-16830 #
AD-A134367 03 p0319 N84-12089
AD-A134370 07 p1010 N84-16548 #
AD-A134371 07 p0969 N84-16282 #
AD-A134372 07 p1084 N84-17050 #
AD-A134374 07 p0960 N84-16222 #
AD-A134376 07 p0968 N84-16271 #
AD-A134378 07 p0993 N84-16437 #
AD-A134380 07 p1013 N84-16571 #
AD-A134387 07 p1076 N84-16995 #
AD-A134389 07 p0970 N84-16283 #
AD-A134398 07 p0961 N84-16230 #
AD-A134404 08 p1203 N84-17845 #
AD-A134412 07 p1039 N84-16740 #
AD-A134415 08 p1203 N84-17846 #
AD-A134416 07 p1080 N84-17024 #
AD-A134419 07 p1080 N84-17025 #
AD-A134424 07 p1085 N84-17054 #
AD-A134426 07 p1072 N84-16962 #
AD-A134427 07 p1061 N84-16882 #
AD-A134428 08 p1196 N84-17798 #
AD-A134429 07 p0993 N84-16438 #
AD-A134430 07 p0997 N84-16466 #
AD-A134431 07 p1061 N84-16883 #
AD-A134435 07 p1051 N84-16809 #
AD-A134444 08 p1201 N84-17831 #
AD-A134445 07 p0963 N84-16244 #
AD-A134449 07 p0945 N84-16129 #
AD-A134452 10 p1507 N84-19866 #
AD-A134453 10 p1510 N84-19881 #
AD-A134454 10 p1511 N84-19893 #
AD-A134455 10 p1514 N84-19908 #
AD-A134457 07 p1072 N84-16963 #
AD-A134458 08 p1165 N84-17583 #
AD-A134462 07 p1040 N84-16746 #
AD-A134464 07 p0970 N84-16284 #
AD-A134465 07 p0993 N84-16439 #
AD-A134466 07 p1055 N84-16831 #
AD-A134467 07 p1052 N84-16814 #
AD-A134476 07 p1041 N84-16747 #
AD-A134480 07 p0986 N84-16384 #
AD-A134482 07 p0979 N84-16342 #
AD-A134483 07 p1039 N84-16741 #
AD-A134486 07 p0997 N84-16467 #
AD-A134488 07 p0979 N84-16343 #
AD-A134491 07 p1057 N84-16849 #
AD-A134492 07 p1002 N84-16497 #
AD-A134500 07 p0993 N84-16440 #
AD-A134501 08 p1187 N84-17738 #
AD-A134502 07 p0979 N84-16344 #
AD-A134503 07 p0954 N84-16187 #
AD-A134504 07 p0993 N84-16441 #
AD-A134512 07 p1072 N84-16964 #
AD-A134514 07 p1008 N84-16534 #
AD-A134517 07 p1010 N84-16549 #
AD-A134518 07 p1062 N84-16884 #
AD-A134519 07 p1016 N84-16594 #
AD-A134523 07 p0948 N84-16151 #
AD-A134528 07 p1081 N84-17026 #
AD-A134529 07 p1062 N84-16885 #
AD-A134531 07 p1067 N84-16926 #
AD-A134532 07 p1062 N84-16886 #

AD-A134533 07 p1062 N84-16887 #
AD-A134534 07 p1062 N84-16888 #
AD-A134535 07 p1062 N84-16889 #
AD-A134537 07 p1062 N84-16890 #
AD-A134538 07 p1063 N84-16891 #
AD-A134541 07 p1063 N84-16892 #
AD-A134542 07 p1063 N84-16893 #
AD-A134543 07 p1055 N84-16832 #
AD-A134544 07 p1063 N84-16894 #
AD-A134547 07 p0951 N84-16174 #
AD-A134548 07 p1002 N84-16498 #
AD-A134553 07 p1063 N84-16895 #
AD-A134555 07 p1063 N84-16896 #
AD-A134556 07 p1002 N84-16499 #
AD-A134557 07 p1063 N84-16897 #
AD-A134558 07 p1053 N84-16815 #
AD-A134559 07 p1063 N84-16898 #
AD-A134562 07 p0970 N84-16285 #
AD-A134564 07 p0966 N84-16260 #
AD-A134571 07 p1002 N84-16500 #
AD-A134572 07 p0948 N84-16152 #
AD-A134573 07 p1064 N84-16899 #
AD-A134575 08 p1201 N84-17832 #
AD-A134576 08 p1201 N84-17833 #
AD-A134579 06 p0782 N84-15121 #
AD-A134579 07 p0948 N84-16153 #
AD-A134580 07 p0998 N84-16468 #
AD-A134583 07 p0994 N84-16442 #
AD-A134584 07 p1010 N84-16550 #
AD-A134586 07 p1081 N84-17027 #
AD-A134589 07 p1013 N84-16572 #
AD-A134590 07 p1040 N84-16742 #
AD-A134594 07 p1081 N84-17028 #
AD-A134596 07 p0994 N84-16443 #
AD-A134598 07 p0952 N84-16175 #
AD-A134599 06 p1196 N84-17799 #
AD-A134600 07 p1013 N84-16573 #
AD-A134605 07 p0974 N84-16314 #
AD-A134606 07 p1058 N84-16850 #
AD-A134611 07 p1008 N84-16535 #
AD-A134612 01 p0094 N84-10610* #
AD-A134613 07 p0970 N84-16286 #
AD-A134615 08 p1144 N84-17446 #
AD-A134616 08 p1161 N84-17561 #
AD-A134617 08 p1187 N84-17735 #
AD-A134628 08 p1151 N84-17491 #
AD-A134629 08 p1095 N84-17121 #
AD-A134633 01 p0094 N84-10609* #
AD-A134636 08 p1137 N84-17398 #
AD-A134642 02 p0174 N84-11142* #
AD-A134651 08 p1178 N84-17673 #
AD-A134653 08 p1200 N84-17823 #
AD-A134661 08 p1238 N84-18092 #
AD-A134663 08 p1125 N84-17311 #
AD-A134670 08 p1235 N84-18073 #
AD-A134672 08 p1200 N84-17824 #
AD-A134673 08 p1220 N84-17965 #
AD-A134674 08 p1197 N84-17805 #
AD-A134683 08 p1144 N84-17447 #
AD-A134691 08 p1158 N84-17542 #
AD-A134692 08 p1159 N84-17543 #
AD-A134693 08 p1159 N84-17544 #
AD-A134694 08 p1229 N84-18030 #
AD-A134695 08 p1104 N84-17180 #
AD-A134696 08 p1220 N84-17966 #
AD-A134698 08 p1212 N84-17908 #
AD-A134700 08 p1159 N84-17545 #
AD-A134701 08 p1212 N84-17909 #
AD-A134702 08 p1195 N84-17791 #
AD-A134704 08 p1125 N84-17312 #
AD-A134705 08 p1232 N84-18052 #
AD-A134707 08 p1145 N84-17448 #
AD-A134711 08 p1145 N84-17449 #
AD-A134713 08 p1151 N84-17492 #
AD-A134714 08 p1139 N84-17411 #
AD-A134715 08 p1195 N84-17792 #
AD-A134716 08 p1145 N84-17450 #
AD-A134717 08 p1202 N84-17840 #
AD-A134728 08 p1216 N84-17933 #
AD-A134729 08 p1132 N84-17364 #
AD-A134730 08 p1145 N84-17451 #
AD-A134739 08 p1099 N84-17150 #
AD-A134740 08 p1164 N84-17579 #
AD-A134742 08 p1159 N84-17546 #
AD-A134743 08 p1145 N84-17452 #
AD-A134744 08 p1151 N84-17493 #
AD-A134745 08 p1095 N84-17122 #
AD-A134746 08 p1213 N84-17910 #
AD-A134748 08 p1223 N84-17987 #
AD-A134749 08 p1138 N84-17399 #
AD-A134750 08 p1168 N84-17609 #
AD-A134751 08 p1226 N84-18010 #
AD-A134752 08 p1220 N84-17967 #
AD-A134753 08 p1119 N84-17280 #
AD-A134757 08 p1220 N84-17968 #
AD-A134762 08 p1235 N84-18074 #
AD-A134767 08 p1171 N84-17628 #
AD-A134773 08 p1227 N84-18020 #
AD-A134774 08 p1145 N84-17453 #
AD-A134776 08 p1226 N84-18011 #
AD-A134782 08 p1200 N84-17825 #
AD-A134783 08 p1138 N84-17400 #
AD-A134791 08 p1195 N84-17793 #
AD-A134792 08 p1195 N84-17794 #
AD-A134794 08 p1159 N84-17547 #
AD-A134796 08 p1159 N84-17548 #
AD-A134797 08 p1203 N84-17841 #
AD-A134799 08 p1107 N84-17197 #
AD-A134806 08 p1132 N84-17365 #
AD-A134807 08 p1133 N84-17366 #
AD-A134809 08 p1151 N84-17494 #
AD-A134810 08 p1108 N84-17205 #
AD-A134811 08 p1200 N84-17826 #
AD-A134812 08 p1151 N84-17495 #
AD-A134814 08 p1201 N84-17827 #
AD-A134819 08 p1152 N84-17496 #
AD-A134820 08 p1108 N84-17206 #
AD-A134826 08 p1195 N84-17795 #
AD-A134828 08 p1205 N84-17860 #
AD-A134833 08 p1100 N84-17154 #
AD-A134834 08 p1100 N84-17155 #
AD-A134836 08 p1133 N84-17367 #
AD-A134837 08 p1152 N84-17497 #
AD-A134838 08 p1152 N84-17498 #
AD-A134839 08 p1104 N84-17181 #
AD-A134843 08 p1105 N84-17182 #
AD-A134845 08 p1171 N84-17629 #
AD-A134850 08 p1145 N84-17454 #
AD-A134853 08 p1201 N84-17828 #
AD-A134854 08 p1106 N84-17191 #
AD-A134857 08 p1213 N84-17911 #
AD-A134860 08 p1100 N84-17156 #
AD-A134861 08 p1178 N84-17674 #
AD-A134864 08 p1167 N84-17595 #
AD-A134865 08 p1138 N84-17401 #
AD-A134866 08 p1164 N84-17580 #
AD-A134868 08 p1171 N84-17630 #
AD-A134870 08 p1213 N84-17912 #
AD-A134871 08 p1187 N84-17736 #
AD-A134872 08 p1187 N84-17737 #
AD-A134875 08 p1164 N84-17581 #
AD-A134882 08 p1162 N84-17562 #
AD-A134883 08 p1101 N84-17157 #
AD-A134886 08 p1228 N84-18021 #
AD-A134888 08 p1191 N84-17762 #
AD-A134889 08 p1172 N84-17631 #
AD-A134891 08 p1108 N84-17207 #
AD-A134892 08 p1201 N84-17829 #
AD-A134893 08 p1160 N84-17549 #
AD-A134894 16 p2521 N84-26185 #
AD-A134898 08 p1101 N84-17158 #
AD-A134899 08 p1205 N84-17861 #
AD-A134912 08 p1201 N84-17830 #
AD-A134917 08 p1165 N84-17582 #
AD-A134923 08 p1162 N84-17563 #
AD-A134930 08 p1210 N84-17891 #
AD-A134934 08 p1216 N84-17934 #
AD-A134940 08 p1125 N84-17313 #
AD-A134942 08 p1167 N84-17596 #
AD-A134952 08 p1213 N84-17913 #
AD-A134955 08 p1107 N84-17198 #
AD-A134957 08 p1107 N84-17199 #
AD-A134965 08 p1178 N84-17675 #
AD-A134966 17 p2667 N84-27007 #
AD-A134970 08 p1221 N84-17969 #
AD-A134974 08 p1240 N84-18108 #
AD-A134977 08 p1178 N84-17676 #
AD-A134981 08 p1221 N84-17970 #
AD-A134982 08 p1145 N84-17455 #
AD-A134986 08 p1125 N84-17314 #
AD-A134991 08 p1152 N84-17499 #
AD-A134993 08 p1095 N84-17120 #
AD-A134997 08 p1121 N84-17288 #
AD-A134998 08 p1231 N84-18048 #
AD-A134999 08 p1177 N84-17670 #
AD-A135001 08 p1211 N84-17901 #
AD-A135003 08 p1209 N84-17885 #
AD-A135006 08 p1143 N84-17438 #
AD-A135007 08 p1150 N84-17483 #
AD-A135012 08 p1170 N84-17623 #
AD-A135021 14 p2137 N84-23809 #
AD-A135023 08 p1144 N84-17440 #
AD-A135024 08 p1209 N84-17886 #
AD-A135032 08 p1217 N84-17942 #
AD-A135041 08 p1144 N84-17441 #
AD-A135050 08 p1217 N84-17943 #
AD-A135051 08 p1121 N84-17289 #
AD-A135052 08 p1106 N84-17190 #
AD-A135059 08 p1164 N84-17577 #
AD-A135060 08 p1164 N84-17578 #
AD-A135061 08 p1217 N84-17944 #
AD-A135066 08 p1222 N84-17983 #

AD-A135067 ..... 08 p1166 N84-17593 #
AD-A135068 ..... 08 p1136 N84-17390 #
AD-A135072 ..... 08 p1104 N84-17179 #
AD-A135073 ..... 08 p1099 N84-17145 #
AD-A135074 ..... 08 p1215 N84-17927 #
AD-A135076 ..... 08 p1122 N84-17294 #
AD-A135077 ..... 09 p1351 N84-18827 #
AD-A135085 ..... 09 p1416 N84-19267 #
AD-A135086 ..... 09 p1276 N84-18334 #
AD-A135087 ..... 03 p0363 N84-12367 #
AD-A135088 ..... 08 p1123 N84-17303 #
AD-A135089 ..... 08 p1141 N84-17421 #
AD-A135092 ..... 08 p1218 N84-17945 #
AD-A135093 ..... 08 p1218 N84-17946 #
AD-A135102 ..... 08 p1234 N84-18068 #
AD-A135105 ..... 08 p1209 N84-17887 #
AD-A135107 ..... 08 p1136 N84-17391 #
AD-A135108 ..... 08 p1124 N84-17304 #
AD-A135109 ..... 08 p1218 N84-17947 #
AD-A135110 ..... 08 p1218 N84-17948 #
AD-A135111 ..... 08 p1170 N84-17624 #
AD-A135115 ..... 08 p1218 N84-17949 #
AD-A135117 ..... 08 p1218 N84-17950 #
AD-A135118 ..... 08 p1157 N84-17535 #
AD-A135120 ..... 08 p1228 N84-18027 #
AD-A135121 ..... 08 p1215 N84-17928 #
AD-A135124 ..... 08 p1150 N84-17484 #
AD-A135133 ..... 08 p1099 N84-17146 #
AD-A135134 ..... 08 p1218 N84-17951 #
AD-A135135 ..... 01 p0003 N84-10023 #
AD-A135143 ..... 08 p1186 N84-17731 #
AD-A135144 ..... 08 p1144 N84-17442 #
AD-A135146 ..... 08 p1218 N84-17952 #
AD-A135150 ..... 08 p1103 N84-17176 #
AD-A135152 ..... 08 p1157 N84-17536 #
AD-A135153 ..... 08 p1215 N84-17929 #
AD-A135154 ..... 08 p1219 N84-17953 #
AD-A135157 ..... 03 p0321 N84-12099 #
AD-A135166 ..... 03 p0315 N84-12056 #
AD-A135172 ..... 08 p1158 N84-17537 #
AD-A135173 ..... 08 p1232 N84-18054 #
AD-A135174 ..... 08 p1187 N84-17732 #
AD-A135175 ..... 08 p1219 N84-17954 #
AD-A135177 ..... 08 p1219 N84-17955 #
AD-A135202 ..... 08 p1209 N84-17888 #
AD-A135208 ..... 08 p1223 N84-17984 #
AD-A135210 ..... 08 p1187 N84-17733 #
AD-A135212 ..... 08 p1158 N84-17538 #
AD-A135223 ..... 08 p1238 N84-18091 #
AD-A135224 ..... 08 p1137 N84-17392 #
AD-A135232 ..... 08 p1150 N84-17485 #
AD-A135233 ..... 08 p1150 N84-17486 #
AD-A135240 ..... 08 p1131 N84-17356 #
AD-A135241 ..... 08 p1190 N84-17757 #
AD-A135243 ..... 09 p1351 N84-18828 #
AD-A135248 ..... 08 p1122 N84-17295 #
AD-A135251 ..... 08 p1099 N84-17147 #
AD-A135252 ..... 08 p1144 N84-17443 #
AD-A135255 ..... 08 p1144 N84-17444 #
AD-A135256 ..... 08 p1099 N84-17148 #
AD-A135257 ..... 08 p1215 N84-17930 #
AD-A135259 ..... 08 p1240 N84-18103 #
AD-A135262 ..... 09 p1363 N84-18902* #
AD-A135263 ..... 09 p1362 N84-18897 #
AD-A135265 ..... 08 p1219 N84-17956 #
AD-A135275 ..... 08 p1219 N84-17957 #
AD-A135276 ..... 02 p0182 N84-11184 #
AD-A135278 ..... 08 p1137 N84-17393 #
AD-A135281 ..... 08 p1234 N84-18069 #
AD-A135282 ..... 08 p1137 N84-17394 #
AD-A135283 ..... 08 p1150 N84-17487 #
AD-A135294 ..... 08 p1219 N84-17958 #
AD-A135297 ..... 08 p1131 N84-17357 #
AD-A135298 ..... 08 p1210 N84-17889 #
AD-A135299 ..... 08 p1240 N84-18104 #
AD-A135303 ..... 08 p1211 N84-17902 #
AD-A135304 ..... 09 p1288 N84-18412 #
AD-A135314 ..... 08 p1219 N84-17959 #
AD-A135315 ..... 02 p0176 N84-11158 #
AD-A135317 ..... 09 p1259 N84-18222 #
AD-A135318 ..... 08 p1100 N84-17153 #
AD-A135319 ..... 08 p1150 N84-17488 #
AD-A135325 ..... 08 p1212 N84-17903 #
AD-A135335 ..... 08 p1151 N84-17489 #
AD-A135336 ..... 08 p1235 N84-18070 #
AD-A135337 ..... 08 p1219 N84-17960 #
AD-A135338 ..... 08 p1235 N84-18071 #
AD-A135339 ..... 08 p1226 N84-18009 #
AD-A135340 ..... 08 p1131 N84-17358 #
AD-A135345 ..... 08 p1170 N84-17625 #
AD-A135352 ..... 09 p1398 N84-19132 #
AD-A135353 ..... 08 p1235 N84-18072 #
AD-A135363 ..... 08 p1180 N84-17687 #
AD-A135364 ..... 09 p1280 N84-18360 #
AD-A135369 ..... 09 p1256 N84-18198 #
AD-A135372 ..... 08 p1220 N84-17961 #
AD-A135373 ..... 08 p1124 N84-17305 #
AD-A135374 ..... 01 p0006 N84-10035 #
AD-A135375 ..... 08 p1190 N84-17758 #
AD-A135376 ..... 09 p1361 N84-18890 #
AD-A135382 ..... 08 p1190 N84-17759 #
AD-A135383 ..... 08 p1124 N84-17306 #
AD-A135385 ..... 08 p1220 N84-17962 #
AD-A135386 ..... 08 p1124 N84-17307 #
AD-A135387 ..... 08 p1171 N84-17626 #
AD-A135388 ..... 08 p1171 N84-17627 #
AD-A135389 ..... 08 p1151 N84-17490 #
AD-A135390 ..... 08 p1137 N84-17395 #
AD-A135392 ..... 08 p1124 N84-17308 #
AD-A135415 ..... 08 p1124 N84-17309 #
AD-A135416 ..... 08 p1122 N84-17296 #
AD-A135419 ..... 08 p1177 N84-17671 #
AD-A135420 ..... 08 p1226 N84-18007 #
AD-A135429 ..... 08 p1137 N84-17396 #
AD-A135431 ..... 08 p1168 N84-17607 #
AD-A135432 ..... 08 p1124 N84-17310 #
AD-A135433 ..... 09 p1363 N84-18903 #
AD-A135435 ..... 08 p1220 N84-17963 #
AD-A135438 ..... 08 p1232 N84-18049 #
AD-A135441 ..... 08 p1191 N84-17760 #
AD-A135442 ..... 08 p1216 N84-17931 #
AD-A135445 ..... 08 p1223 N84-17985 #
AD-A135446 ..... 08 p1232 N84-18050 #
AD-A135449 ..... 08 p1216 N84-17932 #
AD-A135451 ..... 08 p1177 N84-17672 #
AD-A135452 ..... 08 p1240 N84-18105 #
AD-A135453 ..... 08 p1240 N84-18106 #
AD-A135454 ..... 08 p1158 N84-17539 #
AD-A135455 ..... 09 p1361 N84-18891 #
AD-A135458 ..... 08 p1223 N84-17986 #
AD-A135459 ..... 08 p1212 N84-17904 #
AD-A135460 ..... 08 p1200 N84-17822 #
AD-A135461 ..... 08 p1202 N84-17839 #
AD-A135462 ..... 10 p1528 N84-20010 #
AD-A135463 ..... 08 p1158 N84-17540 #
AD-A135464 ..... 08 p1166 N84-17594 #
AD-A135465 ..... 08 p1210 N84-17890 #
AD-A135466 ..... 08 p1113 N84-17240 #
AD-A135476 ..... 08 p1212 N84-17905 #
AD-A135481 ..... 08 p1132 N84-17359 #
AD-A135482 ..... 08 p1144 N84-17445 #
AD-A135484 ..... 08 p1195 N84-17790 #
AD-A135485 ..... 07 p0961 N84-16355 #
AD-A135493 ..... 08 p1132 N84-17360 #
AD-A135502 ..... 08 p1227 N84-18019 #
AD-A135504 ..... 08 p1232 N84-18051 #
AD-A135512 ..... 08 p1182 N84-17698 #
AD-A135514 ..... 08 p1108 N84-17204 #
AD-A135515 ..... 08 p1108 N84-17201 #
AD-A135516 ..... 08 p1132 N84-17361 #
AD-A135518 ..... 08 p1240 N84-18107 #
AD-A135521 ..... 08 p1104 N84-17177 #
AD-A135522 ..... 08 p1212 N84-17906 #
AD-A135532 ..... 08 p1212 N84-17907 #
AD-A135533 ..... 08 p1228 N84-18028 #
AD-A135537 ..... 08 p1220 N84-17964 #
AD-A135538 ..... 08 p1187 N84-17734 #
AD-A135543 ..... 08 p1158 N84-17541 #
AD-A135545 ..... 09 p1362 N84-18899 #
AD-A135546 ..... 08 p1137 N84-17397 #
AD-A135547 ..... 08 p1229 N84-18029 #
AD-A135548 ..... 08 p1132 N84-17362 #
AD-A135549 ..... 08 p1132 N84-17363 #
AD-A135555 ..... 08 p1099 N84-17149* #
AD-A135556 ..... 08 p1191 N84-17761 #
AD-A135565 ..... 09 p1404 N84-19174 #
AD-A135571 ..... 09 p1404 N84-19175 #
AD-A135575 ..... 09 p1308 N84-18552 #
AD-A135576 ..... 09 p1282 N84-18376 #
AD-A135577 ..... 09 p1341 N84-18761 #
AD-A135580 ..... 09 p1283 N84-18377 #
AD-A135581 ..... 09 p1318 N84-18611 #
AD-A135582 ..... 10 p1551 N84-20167 #
AD-A135587 ..... 09 p1279 N84-18352 #
AD-A135588 ..... 09 p1279 N84-18353 #
AD-A135590 ..... 09 p1364 N84-18906 #
AD-A135591 ..... 09 p1288 N84-18406 #
AD-A135595 ..... 09 p1301 N84-18503 #
AD-A135598 ..... 09 p1255 N84-18195 #
AD-A135603 ..... 09 p1256 N84-18196* #
AD-A135605 ..... 09 p1271 N84-18305 #
AD-A135606 ..... 09 p1254 N84-18185 #
AD-A135612 ..... 09 p1283 N84-18378 #
AD-A135620 ..... 09 p1382 N84-19028 #
AD-A135622 ..... 09 p1279 N84-18354 #
AD-A135632 ..... 09 p1257 N84-18204 #
AD-A135636 ..... 09 p1382 N84-19029 #
AD-A135637 ..... 09 p1249 N84-18156 #
AD-A135638 ..... 09 p1397 N84-19126 #
AD-A135639 ..... 09 p1398 N84-19127 #
AD-A135640 ..... 09 p1258 N84-18211 #
AD-A135645 ..... 06 p0785 N84-15139 #

AD-A135652 ..... 09 p1273 N84-18313 #
AD-A135656 ..... 09 p1286 N84-18407 #
AD-A135659 ..... 09 p1372 N84-18957
AD-A135661 ..... 09 p1301 N84-18504 #
AD-A135663 ..... 09 p1318 N84-18612 #
AD-A135664 ..... 09 p1301 N84-18505 #
AD-A135666 ..... 09 p1383 N84-19030 #
AD-A135669 ..... 09 p1301 N84-18506 #
AD-A135673 ..... 09 p1301 N84-18507 #
AD-A135674 ..... 09 p1349 N84-18811 #
AD-A135675 ..... 09 p1273 N84-18311 #
AD-A135676 ..... 09 p1273 N84-18312 #
AD-A135679 ..... 09 p1337 N84-18731 #
AD-A135684 ..... 09 p1383 N84-19031 #
AD-A135685 ..... 09 p1279 N84-18355 #
AD-A135686 ..... 09 p1367 N84-19056 #
AD-A135687 ..... 09 p1377 N84-18993 #
AD-A135688 ..... 09 p1252 N84-18175 #
AD-A135693 ..... 09 p1395 N84-19112 #
AD-A135695 ..... 09 p1332 N84-18697 #
AD-A135702 ..... 09 p1302 N84-18508 #
AD-A135703 ..... 09 p1306 N84-18553 #
AD-A135704 ..... 09 p1302 N84-18509 #
AD-A135705 ..... 09 p1328 N84-18669 #
AD-A135707 ..... 09 p1404 N84-19176 #
AD-A135715 ..... 09 p1275 N84-18323 #
AD-A135717 ..... 09 p1349 N84-18813 #
AD-A135718 ..... 09 p1288 N84-18408 #
AD-A135720 ..... 09 p1349 N84-18814 #
AD-A135721 ..... 09 p1302 N84-18510 #
AD-A135725 ..... 09 p1306 N84-18554 #
AD-A135726 ..... 09 p1368 N84-18931 #
AD-A135732 ..... 09 p1302 N84-18511 #
AD-A135739 ..... 09 p1395 N84-19113 #
AD-A135740 ..... 09 p1315 N84-18591 #
AD-A135745 ..... 10 p1471 N84-19610 #
AD-A135747 ..... 09 p1389 N84-19073 #
AD-A135749 ..... 10 p1552 N84-20168 #
AD-A135751 ..... 09 p1290 N84-18421 #
AD-A135757 ..... 09 p1368 N84-18932 #
AD-A135759 ..... 09 p1383 N84-19032 #
AD-A135762 ..... 09 p1315 N84-18592 #
AD-A135766 ..... 09 p1276 N84-18331 #
AD-A135767 ..... 09 p1276 N84-18332 #
AD-A135768 ..... 09 p1276 N84-18333 #
AD-A135770 ..... 09 p1288 N84-18409 #
AD-A135775 ..... 09 p1368 N84-18933 #
AD-A135782 ..... 09 p1309 N84-18555 #
AD-A135783 ..... 09 p1252 N84-18176 #
AD-A135784 ..... 09 p1253 N84-18177 #
AD-A135787 ..... 09 p1391 N84-19086 #
AD-A135792 ..... 09 p1377 N84-18994 #
AD-A135793 ..... 09 p1322 N84-18640 #
AD-A135794 ..... 09 p1368 N84-18934 #
AD-A135800 ..... 09 p1332 N84-18696 #
AD-A135803 ..... 09 p1280 N84-18356 #
AD-A135807 ..... 09 p1369 N84-18935 #
AD-A135808 ..... 09 p1404 N84-19177 #
AD-A135813 ..... 09 p1280 N84-18357 #
AD-A135815 ..... 09 p1332 N84-18699 #
AD-A135817 ..... 16 p2547 N84-26347 #
AD-A135818 ..... 17 p2619 N84-26758 #
AD-A135820 ..... 09 p1302 N84-18512 #
AD-A135823 ..... 10 p1552 N84-20169 #
AD-A135830 ..... 09 p1300 N84-18496 #
AD-A135832 ..... 09 p1276 N84-18330 #
AD-A135835 ..... 09 p1337 N84-18730 #
AD-A135836 ..... 09 p1332 N84-18694 #
AD-A135837 ..... 09 p1300 N84-18497 #
AD-A135838 ..... 09 p1327 N84-18668 #
AD-A135840 ..... 09 p1367 N84-18926 #
AD-A135842 ..... 09 p1300 N84-18498 #
AD-A135843 ..... 09 p1389 N84-19070 #
AD-A135844 ..... 10 p1436 N84-19388 #
AD-A135845 ..... 10 p1595 N84-20452 #
AD-A135846 ..... 09 p1252 N84-18172 #
AD-A135847 ..... 09 p1279 N84-18351 #
AD-A135848 ..... 09 p1361 N84-18894 #
AD-A135849 ..... 09 p1332 N84-18695 #
AD-A135850 ..... 09 p1377 N84-18992 #
AD-A135853 ..... 09 p1259 N84-18218 #
AD-A135855 ..... 09 p1314 N84-18590 #
AD-A135856 ..... 09 p1342 N84-18767 #
AD-A135858 ..... 09 p1389 N84-19071 #
AD-A135859 ..... 09 p1300 N84-18499 #
AD-A135861 ..... 09 p1367 N84-18927 #
AD-A135862 ..... 09 p1300 N84-18500 #
AD-A135863 ..... 10 p1551 N84-20166 #
AD-A135865 ..... 09 p1368 N84-18928 #
AD-A135866 ..... 09 p1395 N84-19110 #
AD-A135867 ..... 09 p1282 N84-18375 #
AD-A135868 ..... 09 p1259 N84-18219 #
AD-A135869 ..... 09 p1349 N84-18812 #
AD-A135870 ..... 09 p1258 N84-18210 #
AD-A135871 ..... 09 p1318 N84-18610 #
AD-A135872 ..... 09 p1252 N84-18173 #
AD-A135873 ..... 09 p1322 N84-18637 #
AD-A135874 ..... 09 p1322 N84-18638 #
AD-A135875 ..... 09 p1382 N84-19027 #
AD-A135876 ..... 09 p1332 N84-18696 #
AD-A135878 ..... 09 p1389 N84-19069 #
AD-A135880 ..... 09 p1385 N84-19047 #
AD-A135881 ..... 09 p1368 N84-18929 #
AD-A135883 ..... 09 p1404 N84-19173 #
AD-A135886 ..... 09 p1300 N84-18501 #
AD-A135890 ..... 09 p1300 N84-18502 #
AD-A135891 ..... 09 p1287 N84-18405 #
AD-A135892 ..... 09 p1368 N84-18930 #
AD-A135893 ..... 09 p1389 N84-19072 #
AD-A135894 ..... 09 p1322 N84-18639 #
AD-A135895 ..... 09 p1255 N84-18194 #
AD-A135896 ..... 09 p1395 N84-19111 #
AD-A135897 ..... 09 p1252 N84-18174 #
AD-A135899 ..... 09 p1308 N84-18550 #
AD-A135900 ..... 09 p1315 N84-18593 #
AD-A135901 ..... 09 p1345 N84-18788 #
AD-A135903 ..... 01 p0077 N84-10502 #
AD-A135905 ..... 10 p1547 N84-20142 #
AD-A135906 ..... 09 p1257 N84-18205 #
AD-A135907 ..... 09 p1322 N84-18641 #
AD-A135908 ..... 09 p1389 N84-19074 #
AD-A135912 ..... 09 p1309 N84-18556 #
AD-A135913 ..... 09 p1362 N84-18895 #
AD-A135916 ..... 04 p0616 N84-14067 #
AD-A135925 ..... 09 p1398 N84-19128 #
AD-A135926 ..... 09 p1288 N84-18410 #
AD-A135928 ..... 09 p1302 N84-18513 #
AD-A135929 ..... 10 p1547 N84-20143 #
AD-A135930 ..... 10 p1547 N84-20144 #
AD-A135932 ..... 09 p1302 N84-18514 #
AD-A135933 ..... 10 p1552 N84-20170 #
AD-A135937 ..... 09 p1395 N84-19114 #
AD-A135940 ..... 09 p1377 N84-18995 #
AD-A135941 ..... 10 p1548 N84-20145 #
AD-A135942 ..... 09 p1303 N84-18515 #
AD-A135943 ..... 09 p1372 N84-18956 #
AD-A135944 ..... 09 p1383 N84-19033 #
AD-A135946 ..... 09 p1345 N84-18789 #
AD-A135948 ..... 09 p1377 N84-18996 #
AD-A135949 ..... 09 p1377 N84-18997* #
AD-A135950 ..... 09 p1405 N84-19182 #
AD-A135951 ..... 09 p1392 N84-19087 #
AD-A135952 ..... 09 p1349 N84-18815 #
AD-A135953 ..... 09 p1315 N84-18594 #
AD-A135955 ..... 09 p1259 N84-18220 #
AD-A135956 ..... 09 p1283 N84-18379 #
AD-A135958 ..... 10 p1592 N84-20426 #
AD-A135960 ..... 09 p1249 N84-18157 #
AD-A135961 ..... 09 p1345 N84-18790 #
AD-A135962 ..... 09 p1345 N84-18791 #
AD-A135963 ..... 09 p1288 N84-18411* #
AD-A135966 ..... 09 p1377 N84-18998 #
AD-A135967 ..... 09 p1383 N84-19034 #
AD-A135971 ..... 09 p1392 N84-19088 #
AD-A135972 ..... 09 p1396 N84-19115 #
AD-A135975 ..... 09 p1303 N84-18516 #
AD-A135981 ..... 09 p1303 N84-18517 #
AD-A135982 ..... 09 p1283 N84-18380 #
AD-A135984 ..... 09 p1323 N84-18642 #
AD-A135985 ..... 09 p1369 N84-18936 #
AD-A135986 ..... 09 p1378 N84-18999 #
AD-A135987 ..... 09 p1309 N84-18557 #
AD-A135988 ..... 09 p1390 N84-19075 #
AD-A135991 ..... 09 p1396 N84-19116 #
AD-A135998 ..... 09 p1308 N84-18551 #
AD-A136008 ..... 09 p1396 N84-19117 #
AD-A136015 ..... 10 p1548 N84-20146 #
AD-A136017 ..... 09 p1390 N84-19076 #
AD-A136018 ..... 09 p1378 N84-19000 #
AD-A136020 ..... 09 p1398 N84-19129 #
AD-A136021 ..... 09 p1349 N84-18816 #
AD-A136022 ..... 09 p1332 N84-18700 #
AD-A136024 ..... 09 p1396 N84-19118 #
AD-A136025 ..... 09 p1378 N84-19001 #
AD-A136026 ..... 09 p1256 N84-18197 #
AD-A136027 ..... 09 p1283 N84-18381 #
AD-A136028 ..... 09 p1283 N84-18382 #
AD-A136029 ..... 09 p1315 N84-18595 #
AD-A136030 ..... 09 p1378 N84-19002 #
AD-A136033 ..... 09 p1396 N84-19119 #
AD-A136035 ..... 09 p1249 N84-18158 #
AD-A136036 ..... 09 p1283 N84-18383 #
AD-A136037 ..... 09 p1369 N84-18937 #
AD-A136039 ..... 09 p1383 N84-19035 #
AD-A136043 ..... 10 p1543 N84-20110 #
AD-A136044 ..... 09 p1333 N84-18701 #
AD-A136045 ..... 09 p1254 N84-18186 #
AD-A136050 ..... 09 p1309 N84-18558 #
AD-A136051 ..... 09 p1341 N84-18762 #
AD-A136056 ..... 09 p1333 N84-18702 #
AD-A136057 ..... 09 p1333 N84-18703 #
AD-A136058 ..... 09 p1309 N84-18559 #

AD-A136062 09 p1280 N84-18358 #
AD-A136063 09 p1303 N84-18518 #
AD-A136064 09 p1303 N84-18519 #
AD-A136065 09 p1284 N84-18384 #
AD-A136071 09 p1390 N84-19077 #
AD-A136083 09 p1309 N84-18560 #
AD-A136084 09 p1333 N84-18704 #
AD-A136085 09 p1397 N84-19123 #
AD-A136086 09 p1390 N84-19078 #
AD-A136088 09 p1323 N84-18643 #
AD-A136089 09 p1333 N84-18705 #
AD-A136091 09 p1334 N84-18706 #
AD-A136094 09 p1365 N84-18915 #
AD-A136104 09 p1334 N84-18707 #
AD-A136105 09 p1253 N84-18178 #
AD-A136107 09 p1303 N84-18520 #
AD-A136108 09 p1254 N84-18187 #
AD-A136109 09 p1396 N84-19120 #
AD-A136115 09 p1325 N84-18656 #
AD-A136116 09 p1369 N84-18938 #
AD-A136117 09 p1369 N84-18939 #
AD-A136118 17 p2623 N84-26786 #
AD-A136120 09 p1346 N84-18792 #
AD-A136121 09 p1323 N84-18644 #
AD-A136122 09 p1384 N84-19039 #
AD-A136123 09 p1309 N84-18561 #
AD-A136124 09 p1334 N84-18708 #
AD-A136128 09 p1284 N84-18385 #
AD-A136130 09 p1315 N84-18596 #
AD-A136131 09 p1364 N84-18907 #
AD-A136132 09 p1323 N84-18645 #
AD-A136134 09 p1310 N84-18562 #
AD-A136137 09 p1323 N84-18646 #
AD-A136138 09 p1364 N84-18908 #
AD-A136139 09 p1303 N84-18521 #
AD-A136143 09 p1378 N84-19003 #
AD-A136144 09 p1284 N84-18386 #
AD-A136146 09 p1350 N84-18817 #
AD-A136152 09 p1350 N84-18818 #
AD-A136154 09 p1284 N84-18387 #
AD-A136157 15 p2337 N84-25030 #
AD-A136158 09 p1316 N84-18597 #
AD-A136161 09 p1383 N84-19036 #
AD-A136170 09 p1362 N84-18896 #
AD-A136172 10 p1548 N84-20147 #
AD-A136179 10 p1543 N84-20111 #
AD-A136180 09 p1318 N84-18613 #
AD-A136181 09 p1304 N84-18522 #
AD-A136182 09 p1259 N84-18221 #
AD-A136183 09 p1304 N84-18523 #
AD-A136187 09 p1378 N84-19004 #
AD-A136188 09 p1378 N84-19005 #
AD-A136191 09 p1304 N84-18524 #
AD-A136194 09 p1378 N84-19006 #
AD-A136199 09 p1304 N84-18525 #
AD-A136201 09 p1310 N84-18563 #
AD-A136204 09 p1396 N84-19121 #
AD-A136205 09 p1418 N84-19275 #
AD-A136209 09 p1280 N84-18359 #
AD-A136210 09 p1346 N84-18793 #
AD-A136211 09 p1316 N84-18598 #
AD-A136212 09 p1284 N84-18388 #
AD-A136213 09 p1398 N84-19130 #
AD-A136214 09 p1398 N84-19131 #
AD-A136215 09 p1379 N84-19007 #
AD-A136216 09 p1254 N84-18188 #
AD-A136217 09 p1316 N84-18599 #
AD-A136218 10 p1597 N84-20466 #
AD-A136219 09 p1271 N84-18306 #
AD-A136220 03 p0333 N84-12168 #
AD-A136222 09 p1381 N84-19018 #
AD-A136223 09 p1373 N84-18963 #
AD-A136224 09 p1391 N84-19084 #
AD-A136230 09 p1397 N84-19124 #
AD-A136239 09 p1313 N84-18581 #
AD-A136240 09 p1313 N84-18582 #
AD-A136241 09 p1383 N84-18904 #
AD-A136246 09 p1385 N84-19045 #
AD-A136247 09 p1278 N84-18342 #
AD-A136250 09 p1278 N84-18343 #
AD-A136256 09 p1298 N84-18486 #
AD-A136257 09 p1313 N84-18583 #
AD-A136263 10 p1526 N84-19993 #
AD-A136264 09 p1325 N84-18655 #
AD-A136265 09 p1330 N84-18686 #
AD-A136266 04 p0621 N84-14098* #
AD-A136269 09 p1278 N84-18344 #
AD-A136270 09 p1287 N84-18402 #
AD-A136274 09 p1348 N84-18807 #
AD-A136275 09 p1403 N84-19169 #
AD-A136281 09 p1394 N84-19102 #
AD-A136282 09 p1367 N84-18922 #
AD-A136288 09 p1314 N84-18584 #
AD-A136289 09 p1330 N84-18687 #
AD-A136290 09 p1306 N84-18538 #
AD-A136291 09 p1258 N84-18209 #
AD-A136292 09 p1365 N84-18910 #
AD-A136295 09 p1387 N84-19060 #
AD-A136296 09 p1314 N84-18585 #
AD-A136305 09 p1320 N84-18621 #
AD-A136306 09 p1320 N84-18622 #
AD-A136307 09 p1320 N84-18623 #
AD-A136308 09 p1320 N84-18624 #
AD-A136310 09 p1394 N84-19103 #
AD-A136312 09 p1320 N84-18625 #
AD-A136314 09 p1394 N84-19104 #
AD-A136316 09 p1336 N84-18727 #
AD-A136317 09 p1365 N84-18911 #
AD-A136321 09 p1327 N84-18665 #
AD-A136322 09 p1373 N84-18964 #
AD-A136323 09 p1373 N84-18965 #
AD-A136324 09 p1373 N84-18966 #
AD-A136325 09 p1373 N84-18967 #
AD-A136328 09 p1282 N84-18371 #
AD-A136329 09 p1341 N84-18760 #
AD-A136330 09 p1320 N84-18626 #
AD-A136331 09 p1282 N84-18372 #
AD-A136333 09 p1321 N84-18627 #
AD-A136334 09 p1276 N84-18328 #
AD-A136339 09 p1321 N84-18628 #
AD-A136341 09 p1306 N84-18539 #
AD-A136342 09 p1331 N84-18688 #
AD-A136345 09 p1394 N84-19105 #
AD-A136347 09 p1327 N84-18666 #
AD-A136348 09 p1373 N84-18968 #
AD-A136351 09 p1331 N84-18689 #
AD-A136352 09 p1325 N84-18656 #
AD-A136353 09 p1374 N84-18969 #
AD-A136354 09 p1386 N84-19054 #
AD-A136355 09 p1297 N84-18478 #
AD-A136356 09 p1306 N84-18540 #
AD-A136358 09 p1321 N84-18629 #
AD-A136361 09 p1321 N84-18630 #
AD-A136363 09 p1282 N84-18373 #
AD-A136367 09 p1374 N84-18970 #
AD-A136368 09 p1394 N84-19106 #
AD-A136372 09 p1374 N84-18971 #
AD-A136373 09 p1374 N84-18972 #
AD-A136374 09 p1395 N84-19107 #
AD-A136375 09 p1371 N84-18954 #
AD-A136376 09 p1255 N84-18191 #
AD-A136377 09 p1337 N84-18726 #
AD-A136378 09 p1287 N84-18403 #
AD-A136379 09 p1348 N84-18808 #
AD-A136381 09 p1337 N84-18729 #
AD-A136383 09 p1374 N84-18973 #
AD-A136384 09 p1374 N84-18974 #
AD-A136385 09 p1381 N84-19019 #
AD-A136386 09 p1298 N84-18487 #
AD-A136387 09 p1331 N84-18690 #
AD-A136390 09 p1278 N84-18345 #
AD-A136392 04 p0484 N84-13181 #
AD-A136396 09 p1345 N84-18784 #
AD-A136398 10 p1551 N84-20165 #
AD-A136400 03 p0425 N84-12780 #
AD-A136402 09 p1314 N84-18586 #
AD-A136403 09 p1374 N84-18975 #
AD-A136404 09 p1374 N84-18976 #
AD-A136405 09 p1374 N84-18977 #
AD-A136407 09 p1255 N84-18192 #
AD-A136408 09 p1307 N84-18541 #
AD-A136410 09 p1314 N84-18587 #
AD-A136413 09 p1307 N84-18542 #
AD-A136414 09 p1331 N84-18691 #
AD-A136415 09 p1331 N84-18692 #
AD-A136416 09 p1298 N84-18488 #
AD-A136418 09 p1375 N84-18978 #
AD-A136419 09 p1375 N84-18979 #
AD-A136424 09 p1318 N84-18608 #
AD-A136425 09 p1375 N84-18980 #
AD-A136426 09 p1381 N84-19020 #
AD-A136427 09 p1375 N84-18981 #
AD-A136431 09 p1278 N84-18346 #
AD-A136433 09 p1321 N84-18631 #
AD-A136434 09 p1345 N84-18785 #
AD-A136435 09 p1321 N84-18632 #
AD-A136436 09 p1321 N84-18633 #
AD-A136438 09 p1386 N84-19055 #
AD-A136439 09 p1259 N84-18217 #
AD-A136447 09 p1278 N84-18347 #
AD-A136448 09 p1278 N84-18348 #
AD-A136449 09 p1395 N84-19108 #
AD-A136450 09 p1279 N84-18349 #
AD-A136455 09 p1375 N84-18982 #
AD-A136457 14 p2189 N84-24115 #
AD-A136461 09 p1298 N84-18489 #
AD-A136462 10 p1526 N84-19994 #
AD-A136463 09 p1299 N84-18490 #
AD-A136465 09 p1388 N84-19065 #
AD-A136466 09 p1365 N84-18912 #
AD-A136468 09 p1279 N84-18350 #
AD-A136473 09 p1387 N84-19061 #

AD-A136477 ..... 09 p1249 N84-18155 #
AD-A136483 ..... 09 p1299 N84-18491 #
AD-A136485 ..... 09 p1255 N84-18193 #
AD-A136487 ..... 09 p1376 N84-18984 #
AD-A136488 ..... 09 p1307 N84-18543 #
AD-A136489 ..... 09 p1307 N84-18544 #
AD-A136490 ..... 09 p1381 N84-19021 #
AD-A136494 ..... 09 p1321 N84-18634 #
AD-A136497 ..... 09 p1345 N84-18786 #
AD-A136498 ..... 09 p1345 N84-18787 #
AD-A136499 ..... 09 p1348 N84-18809 #
AD-A136500 ..... 09 p1348 N84-18810 #
AD-A136501 ..... 09 p1376 N84-18995 #
AD-A136502 ..... 09 p1342 N84-18765 #
AD-A136503 ..... 09 p1314 N84-18588 #
AD-A136504 ..... 09 p1384 N84-19041 #
AD-A136506 ..... 09 p1381 N84-19022 #
AD-A136507 ..... 09 p1376 N84-18986 #
AD-A136508 ..... 09 p1382 N84-19023 #
AD-A136509 ..... 09 p1307 N84-18545 #
AD-A136511 ..... 09 p1388 N84-19066 #
AD-A136514 ..... 09 p1385 N84-19046 #
AD-A136515 ..... 09 p1322 N84-18635 #
AD-A136518 ..... 09 p1299 N84-18492 #
AD-A136519 ..... 09 p1397 N84-19125 #
AD-A136521 ..... 09 p1344 N84-18783 #
AD-A136522 ..... 09 p1367 N84-18923 #
AD-A136523 ..... 09 p1404 N84-19170 #
AD-A136525 ..... 09 p1325 N84-18657 #
AD-A136527 ..... 09 p1371 N84-18955 #
AD-A136530 ..... 09 p1384 N84-19042 #
AD-A136531 ..... 09 p1376 N84-18987 #
AD-A136533 ..... 10 p1595 N84-20451 #
AD-A136537 ..... 09 p1395 N84-19109 #
AD-A136538 ..... 09 p1322 N84-18636 #
AD-A136540 ..... 09 p1299 N84-18493 #
AD-A136541 ..... 09 p1314 N84-18589 #
AD-A136546 ..... 09 p1363 N84-18901 #
AD-A136547 ..... 09 p1287 N84-18404 #
AD-A136548 ..... 09 p1384 N84-19037 #
AD-A136550 ..... 09 p1376 N84-18988 #
AD-A136551 ..... 09 p1307 N84-18546 #
AD-A136552 ..... 09 p1307 N84-18547 #
AD-A136553 ..... 09 p1308 N84-18548 #
AD-A136555 ..... 09 p1365 N84-18913 #
AD-A136558 ..... 09 p1276 N84-18329 #
AD-A136559 ..... 07 p1085 N84-17059 #
AD-A136560 ..... 09 p1299 N84-18494 #
AD-A136561 ..... 09 p1376 N84-18989 #
AD-A136567 ..... 09 p1327 N84-18667 #
AD-A136570 ..... 09 p1376 N84-18990 #
AD-A136571 ..... 09 p1382 N84-19024 #
AD-A136572 ..... 09 p1367 N84-18924 #
AD-A136573 ..... 09 p1308 N84-18549 #
AD-A136574 ..... 10 p1572 N84-20298 #
AD-A136577 ..... 09 p1404 N84-19171 #
AD-A136579 ..... 09 p1384 N84-19038 #
AD-A136584 ..... 09 p1367 N84-18925 #
AD-A136588 ..... 09 p1382 N84-19025 #
AD-A136589 ..... 09 p1282 N84-18374 #
AD-A136590 ..... 10 p1555 N84-20192 #
AD-A136591 ..... 09 p1388 N84-19067 #
AD-A136594 ..... 09 p1342 N84-18766 #
AD-A136595 ..... 10 p1585 N84-20391 #
AD-A136600 ..... 09 p1388 N84-19068 #
AD-A136607 ..... 09 p1299 N84-18495 #
AD-A136614 ..... 09 p1286 N84-18397
AD-A136626 ..... 09 p1376 N84-18991 #
AD-A136630 ..... 09 p1382 N84-19026 #
AD-A136632 ..... 09 p1318 N84-18609 #
AD-A136633 ..... 09 p1391 N84-19085 #
AD-A136634 ..... 09 p1365 N84-18914 #
AD-A136637 ..... 09 p1331 N84-18693 #
AD-A136638 ..... 09 p1404 N84-19172 #
AD-A136643 ..... 10 p1433 N84-19367 #
AD-A136644 ..... 09 p1363 N84-18905 #
AD-A136647 ..... 10 p1470 N84-19599 #
AD-A136648 ..... 18 p2810 N84-27840 #
AD-A136649 ..... 10 p1430 N84-19350 #
AD-A136659 ..... 10 p1574 N84-20317 #
AD-A136662 ..... 10 p1467 N84-19579 #
AD-A136663 ..... 10 p1470 N84-19600 #
AD-A136665 ..... 10 p1471 N84-19609 #
AD-A136668 ..... 10 p1588 N84-20410 #
AD-A136670 ..... 10 p1549 N84-20156 #
AD-A136671 ..... 10 p1467 N84-19580 #
AD-A136676 ..... 10 p1481 N84-19675 #
AD-A136678 ..... 10 p1427 N84-19336 #
AD-A136681 ..... 10 p1498 N84-19789 #
AD-A136689 ..... 10 p1547 N84-20140 #
AD-A136692 ..... 10 p1554 N84-20182 #
AD-A136693 ..... 10 p1554 N84-20183 #
AD-A136694 ..... 10 p1540 N84-20090 #
AD-A136703 ..... 10 p1550 N84-20157 #
AD-A136714 ..... 01 p0005 N84-10034* #
AD-A136718 ..... 10 p1460 N84-19532 #
AD-A136722 ..... 10 p1589 N84-20411 #
AD-A136724 ..... 10 p1598 N84-20471 #
AD-A136729 ..... 10 p1467 N84-19581 #
AD-A136732 ..... 10 p1557 N84-20199 #
AD-A136737 ..... 10 p1498 N84-19790 #
AD-A136738 ..... 10 p1557 N84-20200 #
AD-A136739 ..... 10 p1554 N84-20184 #
AD-A136745 ..... 10 p1432 N84-19364 #
AD-A136749 ..... 11 p1719 N84-21212 #
AD-A136758 ..... 10 p1428 N84-19337 #
AD-A136759 ..... 10 p1557 N84-20201 #
AD-A136760 ..... 10 p1557 N84-20202 #
AD-A136768 ..... 10 p1577 N84-20331 #
AD-A136769 ..... 10 p1430 N84-19351 #
AD-A136772 ..... 10 p1517 N84-19931 #
AD-A136773 ..... 10 p1543 N84-20109 #
AD-A136775 ..... 10 p1525 N84-19990 #
AD-A136776 ..... 10 p1593 N84-20438 #
AD-A136778 ..... 10 p1557 N84-20203 #
AD-A136780 ..... 10 p1554 N84-20185 #
AD-A136781 ..... 10 p1448 N84-19464 #
AD-A136782 ..... 10 p1467 N84-19582 #
AD-A136790 ..... 10 p1554 N84-20186 #
AD-A136793 ..... 10 p1574 N84-20313 #
AD-A136794 ..... 10 p1435 N84-19381 #
AD-A136795 ..... 10 p1425 N84-19319 #
AD-A136796 ..... 10 p1425 N84-19320 #
AD-A136798 ..... 10 p1460 N84-19533 #
AD-A136799 ..... 10 p1481 N84-19676 #
AD-A136803 ..... 10 p1428 N84-19338 #
AD-A136804 ..... 10 p1436 N84-19385 #
AD-A136805 ..... 10 p1481 N84-19677 #
AD-A136807 ..... 10 p1425 N84-19321 #
AD-A136808 ..... 10 p1550 N84-20158 #
AD-A136809 ..... 10 p1563 N84-20242 #
AD-A136811 ..... 10 p1574 N84-20314 #
AD-A136812 ..... 10 p1563 N84-20243 #
AD-A136824 ..... 10 p1491 N84-19753 #
AD-A136826 ..... 10 p1420 N84-19289 #
AD-A136829 ..... 10 p1532 N84-20031 #
AD-A136830 ..... 10 p1498 N84-19791 #
AD-A136831 ..... 10 p1425 N84-19322 #
AD-A136834 ..... 10 p1428 N84-19339 #
AD-A136838 ..... 10 p1426 N84-19323 #
AD-A136840 ..... 10 p1591 N84-20425 #
AD-A136841 ..... 10 p1591 N84-20426 #
AD-A136842 ..... 10 p1589 N84-20412 #
AD-A136843 ..... 10 p1460 N84-19534 #
AD-A136844 ..... 10 p1540 N84-20091 #
AD-A136850 ..... 10 p1426 N84-19324 #
AD-A136851 ..... 10 p1426 N84-19325 #
AD-A136852 ..... 10 p1426 N84-19326 #
AD-A136855 ..... 09 p1399 N84-19138 #
AD-A136868 ..... 10 p1598 N84-20472 #
AD-A136873 ..... 10 p1419 N84-19280 #
AD-A136874 ..... 10 p1492 N84-19754 #
AD-A136876 ..... 10 p1550 N84-20159 #
AD-A136879 ..... 10 p1550 N84-20160 #
AD-A136881 ..... 10 p1550 N84-20161 #
AD-A136886 ..... 10 p1436 N84-19386 #
AD-A136889 ..... 10 p1573 N84-20309 #
AD-A136890 ..... 10 p1573 N84-20310 #
AD-A136891 ..... 10 p1452 N84-19485 #
AD-A136894 ..... 10 p1589 N84-20413 #
AD-A136895 ..... 10 p1420 N84-19290 #
AD-A136896 ..... 10 p1492 N84-19755 #
AD-A136897 ..... 10 p1421 N84-19291 #
AD-A136898 ..... 10 p1506 N84-19855 #
AD-A136900 ..... 10 p1570 N84-20286 #
AD-A136901 ..... 10 p1517 N84-19932 #
AD-A136906 ..... 10 p1578 N84-20342 #
AD-A136908 ..... 10 p1451 N84-19474 #
AD-A136909 ..... 10 p1430 N84-19352 #
AD-A136910 ..... 10 p1433 N84-19365 #
AD-A136911 ..... 10 p1492 N84-19756 #
AD-A136912 ..... 10 p1421 N84-19292 #
AD-A136913 ..... 10 p1421 N84-19293 #
AD-A136916 ..... 10 p1470 N84-19601 #
AD-A136918 ..... 10 p1554 N84-20187 #
AD-A136920 ..... 10 p1421 N84-19294 #
AD-A136921 ..... 10 p1421 N84-19295 #
AD-A136922 ..... 10 p1517 N84-19933 #
AD-A136923 ..... 10 p1467 N84-19583 #
AD-A136925 ..... 10 p1460 N84-19535 #
AD-A136926 ..... 10 p1545 N84-20129 #
AD-A136928 ..... 10 p1438 N84-19391 #
AD-A136929 ..... 10 p1492 N84-19757 #
AD-A136930 ..... 10 p1492 N84-19758 #
AD-A136932 ..... 10 p1428 N84-19340 #
AD-A136933 ..... 10 p1428 N84-19341 #
AD-A136934 ..... 10 p1436 N84-19387 #
AD-A136935 ..... 10 p1532 N84-20032 #
AD-A136937 ..... 10 p1467 N84-19584 #
AD-A136938 ..... 10 p1481 N84-19678 #
AD-A136939 ..... 10 p1481 N84-19679 #
AD-A136943 ..... 10 p1555 N84-20188 #

AD-A136944 ..... 10 p1555 N84-20189 #
AD-A136945 ..... 10 p1555 N84-20190 #
AD-A136946 ..... 10 p1481 N84-19680 #
AD-A136947 ..... 10 p1422 N84-19296 #
AD-A136948 ..... 10 p1470 N84-19602 #
AD-A136949 ..... 10 p1454 N84-19498 #
AD-A136950 ..... 10 p1594 N84-20445 #
AD-A136951 ..... 10 p1575 N84-20322 #
AD-A136954 ..... 10 p1517 N84-19934 #
AD-A136955 ..... 10 p1468 N84-19585 #
AD-A136956 ..... 10 p1460 N84-19536 #
AD-A136958 ..... 10 p1429 N84-19342 #
AD-A136959 ..... 10 p1492 N84-19759 #
AD-A136960 ..... 10 p1573 N84-20311 #
AD-A136961 ..... 10 p1570 N84-20287 #
AD-A136962 ..... 10 p1585 N84-20388 #
AD-A136963 ..... 10 p1585 N84-20389 #
AD-A136964 ..... 10 p1570 N84-20288 #
AD-A136966 ..... 10 p1460 N84-19537 #
AD-A136970 ..... 10 p1481 N84-19681 #
AD-A136975 ..... 10 p1486 N84-19718 #
AD-A136980 ..... 10 p1493 N84-19760 #
AD-A136982 ..... 10 p1455 N84-19499 #
AD-A136983 ..... 10 p1591 N84-20427 #
AD-A136984 ..... 10 p1449 N84-19465 #
AD-A136985 ..... 10 p1570 N84-20289 #
AD-A136986 ..... 10 p1433 N84-19366 #
AD-A136988 ..... 10 p1455 N84-19500 #
AD-A136990 ..... 10 p1482 N84-19682 #
AD-A136991 ..... 10 p1455 N84-19501 #
AD-A136996 ..... 10 p1455 N84-19502 #
AD-A136999 ..... 10 p1525 N84-19991 #
AD-A137002 ..... 10 p1593 N84-20439 #
AD-A137006 ..... 10 p1570 N84-20290 #
AD-A137008 ..... 10 p1493 N84-19761 #
AD-A137009 ..... 10 p1426 N84-19327 #
AD-A137010 ..... 10 p1545 N84-20130 #
AD-A137018 ..... 10 p1422 N84-19297 #
AD-A137019 ..... 10 p1493 N84-19762 #
AD-A137022 ..... 10 p1493 N84-19763 #
AD-A137025 ..... 10 p1575 N84-20323 #
AD-A137028 ..... 10 p1571 N84-20291 #
AD-A137029 ..... 10 p1493 N84-19764 #
AD-A137030 ..... 10 p1547 N84-20141 #
AD-A137031 ..... 10 p1551 N84-20162 #
AD-A137032 ..... 10 p1551 N84-20163 #
AD-A137033 ..... 10 p1579 N84-20343 #
AD-A137040 ..... 10 p1455 N84-19503 #
AD-A137041 ..... 10 p1571 N84-20292 #
AD-A137042 ..... 10 p1555 N84-20191 #
AD-A137043 ..... 10 p1551 N84-20164 #
AD-A137047 ..... 10 p1452 N84-19486 #
AD-A137048 ..... 10 p1468 N84-19586 #
AD-A137050 ..... 10 p1518 N84-19935 #
AD-A137052 ..... 10 p1422 N84-19298 #
AD-A137055 ..... 10 p1571 N84-20293 #
AD-A137056 ..... 10 p1422 N84-19299 #
AD-A137057 ..... 10 p1564 N84-20244 #
AD-A137059 ..... 10 p1571 N84-20294 #
AD-A137060 ..... 10 p1493 N84-19765 #
AD-A137062 ..... 10 p1564 N84-20245 #
AD-A137064 ..... 10 p1571 N84-20295 #
AD-A137065 ..... 10 p1507 N84-19858 #
AD-A137066 ..... 10 p1455 N84-19504 #
AD-A137067 ..... 10 p1573 N84-20312 #
AD-A137068 ..... 10 p1564 N84-20246 #
AD-A137070 ..... 10 p1422 N84-19300 #
AD-A137079 ..... 10 p1455 N84-19505 #
AD-A137080 ..... 10 p1579 N84-20344 #
AD-A137081 ..... 10 p1468 N84-19587 #
AD-A137082 ..... 10 p1585 N84-20390 #
AD-A137084 ..... 10 p1564 N84-20247 #
AD-A137085 ..... 10 p1455 N84-19506 #
AD-A137086 ..... 10 p1571 N84-20296 #
AD-A137088 ..... 10 p1426 N84-19328 #
AD-A137089 ..... 10 p1468 N84-19588 #
AD-A137090 ..... 10 p1468 N84-19589 #
AD-A137095 ..... 10 p1482 N84-19683 #
AD-A137096 ..... 10 p1571 N84-20297 #
AD-A137102 ..... 10 p1482 N84-19684 #
AD-A137103 ..... 10 p1579 N84-20345 #
AD-A137104 ..... 10 p1525 N84-19992 #
AD-A137105 ..... 10 p1449 N84-19466 #
AD-A137107 ..... 10 p1569 N84-20276 #
AD-A137108 ..... 10 p1562 N84-20234 #
AD-A137110 ..... 10 p1567 N84-20266 #
AD-A137116 ..... 12 p1915 N84-22475 #
AD-A137120 ..... 10 p1465 N84-19570 #
AD-A137121 ..... 10 p1498 N84-19788 #
AD-A137122 ..... 10 p1491 N84-19749 #
AD-A137124 ..... 10 p1562 N84-20235 #
AD-A137127 ..... 10 p1592 N84-20436 #
AD-A137128 ..... 10 p1588 N84-20405 #
AD-A137129 ..... 10 p1478 N84-19660 #
AD-A137130 ..... 10 p1553 N84-20178 #
AD-A137131 ..... 10 p1585 N84-20387 #
AD-A137132 ..... 10 p1569 N84-20277 #
AD-A137136 ..... 10 p1536 N84-20066 #
AD-A137138 ..... 11 p1644 N84-20749 #
AD-A137139 ..... 10 p1536 N84-20067 #
AD-A137141 ..... 10 p1539 N84-20084 #
AD-A137144 ..... 10 p1539 N84-20085 #
AD-A137145 ..... 10 p1458 N84-19524 #
AD-A137146 ..... 11 p1660 N84-20832 #
AD-A137150 ..... 11 p1599 N84-20475 #
AD-A137151 ..... 11 p1621 N84-20608 #
AD-A137153 ..... 11 p1629 N84-20657 #
AD-A137155 ..... 05 p0628 N84-14130 #
AD-A137159 ..... 11 p1706 N84-21131 #
AD-A137162 ..... 11 p1683 N84-20980 #
AD-A137163 ..... 11 p1759 N84-21482 #
AD-A137165 ..... 11 p1687 N84-21004 #
AD-A137166 ..... 11 p1683 N84-20981 #
AD-A137167 ..... 11 p1687 N84-21005 #
AD-A137170 ..... 11 p1706 N84-21132 #
AD-A137177 ..... 10 p1469 N84-19596 #
AD-A137181 ..... 10 p1448 N84-19463 #
AD-A137182 ..... 10 p1432 N84-19383 #
AD-A137184 ..... 10 p1491 N84-19750 #
AD-A137185 ..... 11 p1732 N84-21297 #
AD-A137186 ..... 11 p1744 N84-21383 #
AD-A137188 ..... 11 p1688 N84-21006 #
AD-A137189 ..... 11 p1599 N84-20476 #
AD-A137191 ..... 11 p1745 N84-21391 #
AD-A137192 ..... 11 p1683 N84-20982 #
AD-A137193 ..... 10 p1539 N84-20086 #
AD-A137194 ..... 11 p1696 N84-21061 #
AD-A137197 ..... 10 p1539 N84-20087 #
AD-A137198 ..... 10 p1485 N84-19710 #
AD-A137199 ..... 11 p1626 N84-20642 #
AD-A137202 ..... 10 p1569 N84-20278 #
AD-A137203 ..... 10 p1576 N84-20326 #
AD-A137204 ..... 10 p1485 N84-19711 #
AD-A137205 ..... 10 p1567 N84-20267 #
AD-A137209 ..... 10 p1485 N84-19712 #
AD-A137212 ..... 11 p1689 N84-21014 #
AD-A137214 ..... 11 p1660 N84-20833 #
AD-A137215 ..... 10 p1540 N84-20088 #
AD-A137222 ..... 10 p1569 N84-20279 #
AD-A137223 ..... 10 p1569 N84-20280 #
AD-A137229 ..... 10 p1562 N84-20236 #
AD-A137231 ..... 10 p1588 N84-20406 #
AD-A137234 ..... 10 p1569 N84-20281 #
AD-A137236 ..... 10 p1567 N84-20268 #
AD-A137237 ..... 18 p2932 N84-28595* #
AD-A137240 ..... 10 p1478 N84-19661 #
AD-A137241 ..... 10 p1454 N84-19496 #
AD-A137243 ..... 10 p1588 N84-20407 #
AD-A137244 ..... 10 p1517 N84-19929 #
AD-A137252 ..... 10 p1458 N84-19525 #
AD-A137256 ..... 11 p1653 N84-20791 #
AD-A137257 ..... 11 p1638 N84-20706 #
AD-A137259 ..... 11 p1653 N84-20792 #
AD-A137262 ..... 11 p1622 N84-20615 #
AD-A137263 ..... 11 p1629 N84-20658 #
AD-A137266 ..... 11 p1683 N84-20983 #
AD-A137271 ..... 10 p1465 N84-19571 #
AD-A137272 ..... 10 p1459 N84-19526 #
AD-A137274 ..... 10 p1562 N84-20237 #
AD-A137275 ..... 10 p1517 N84-19930 #
AD-A137278 ..... 10 p1500 N84-19804 #
AD-A137283 ..... 10 p1569 N84-20282 #
AD-A137288 ..... 10 p1553 N84-20179 #
AD-A137290 ..... 10 p1465 N84-19572 #
AD-A137292 ..... 10 p1575 N84-20321 #
AD-A137304 ..... 11 p1657 N84-20809 #
AD-A137311 ..... 10 p1591 N84-20424 #
AD-A137312 ..... 10 p1502 N84-19817 #
AD-A137315 ..... 10 p1553 N84-20180 #
AD-A137317 ..... 10 p1479 N84-19662 #
AD-A137321 ..... 18 p2833 N84-27983 #
AD-A137327 ..... 10 p1503 N84-19825 #
AD-A137326 ..... 10 p1503 N84-19826 #
AD-A137329 ..... 10 p1503 N84-19827 #
AD-A137330 ..... 10 p1504 N84-19828 #
AD-A137331 ..... 10 p1504 N84-19829 #
AD-A137332 ..... 10 p1504 N84-19830 #
AD-A137333 ..... 10 p1504 N84-19831 #
AD-A137335 ..... 10 p1504 N84-19832 #
AD-A137336 ..... 10 p1504 N84-19833 #
AD-A137338 ..... 10 p1563 N84-20238 #
AD-A137341 ..... 10 p1576 N84-20327 #
AD-A137345 ..... 10 p1574 N84-20316 #
AD-A137350 ..... 10 p1479 N84-19663 #
AD-A137351 ..... 10 p1593 N84-20444 #
AD-A137353 ..... 10 p1479 N84-19664 #
AD-A137355 ..... 10 p1568 N84-20269 #
AD-A137356 ..... 10 p1537 N84-20068 #
AD-A137358 ..... 10 p1466 N84-19573 #
AD-A137359 ..... 10 p1479 N84-19665 #
AD-A137362 ..... 10 p1540 N84-20089 #
AD-A137367 ..... 06 p0848 N84-15530 #

AD-A137372 ..... 10 p1486 N84-19713 #
AD-A137376 ..... 10 p1425 N84-19318 #
AD-A137377 ..... 10 p1529 N84-20018 #
AD-A137378 ..... 10 p1459 N84-19527 #
AD-A137379 ..... 10 p1547 N84-20139 #
AD-A137383 ..... 10 p1466 N84-19574 #
AD-A137385 ..... 10 p1479 N84-19666 #
AD-A137388 ..... 10 p1459 N84-19528 #
AD-A137389 ..... 10 p1466 N84-19575 #
AD-A137394 ..... 10 p1486 N84-19714 #
AD-A137396 ..... 10 p1424 N84-19312 #
AD-A137398 ..... 10 p1486 N84-19715 #
AD-A137399 ..... 10 p1537 N84-20069 #
AD-A137404 ..... 10 p1469 N84-19597 #
AD-A137405 ..... 10 p1469 N84-19598 #
AD-A137406 ..... 10 p1590 N84-20421 #
AD-A137407 ..... 10 p1479 N84-19667 #
AD-A137408 ..... 10 p1451 N84-19473 #
AD-A137412 ..... 10 p1471 N84-19608 #
AD-A137413 ..... 10 p1593 N84-20437 #
AD-A137416 ..... 10 p1480 N84-19668 #
AD-A137417 ..... 10 p1563 N84-20239 #
AD-A137418 ..... 10 p1424 N84-19313 #
AD-A137420 ..... 10 p1491 N84-19751 #
AD-A137422 ..... 10 p1563 N84-20240 #
AD-A137424 ..... 10 p1466 N84-19576 #
AD-A137434 ..... 06 p1223 N84-17988* #
AD-A137435 ..... 10 p1486 N84-19716 #
AD-A137436 ..... 10 p1568 N84-20270 #
AD-A137443 ..... 10 p1570 N84-20283 #
AD-A137446 ..... 10 p1466 N84-19577 #
AD-A137447 ..... 10 p1576 N84-20328 #
AD-A137456 ..... 10 p1430 N84-19349 #
AD-A137458 ..... 10 p1563 N84-20241 #
AD-A137460 ..... 10 p1438 N84-19390 #
AD-A137461 ..... 10 p1480 N84-19669 #
AD-A137462 ..... 10 p1480 N84-19670 #
AD-A137463 ..... 10 p1480 N84-19671 #
AD-A137464 ..... 11 p1644 N84-20750 #
AD-A137470 ..... 08 p1120 N84-17286 #
AD-A137473 ..... 10 p1553 N84-20181 #
AD-A137476 ..... 10 p1480 N84-19672 #
AD-A137483 ..... 10 p1420 N84-19288 #
AD-A137484 ..... 10 p1454 N84-19497 #
AD-A137486 ..... 10 p1588 N84-20408 #
AD-A137489 ..... 10 p1466 N84-19578 #
AD-A137490 ..... 10 p1500 N84-19805 #
AD-A137491 ..... 12 p1920 N84-22511 #
AD-A137492 ..... 10 p1431 N84-19354 #
AD-A137499 ..... 10 p1570 N84-20284 #
AD-A137502 ..... 10 p1507 N84-19862 #
AD-A137503 ..... 10 p1424 N84-19314 #
AD-A137504 ..... 11 p1702 N84-21101 #
AD-A137506 ..... 10 p1557 N84-20198 #
AD-A137508 ..... 10 p1576 N84-20329 #
AD-A137509 ..... 10 p1480 N84-19673 #
AD-A137510 ..... 10 p1480 N84-19674 #
AD-A137511 ..... 10 p1577 N84-20330 #
AD-A137513 ..... 10 p1459 N84-19529 #
AD-A137514 ..... 10 p1588 N84-20409 #
AD-A137515 ..... 10 p1491 N84-19752 #
AD-A137517 ..... 10 p1570 N84-20285 #
AD-A137518 ..... 10 p1459 N84-19530 #
AD-A137519 ..... 10 p1459 N84-19531 #
AD-A137523 ..... 10 p1486 N84-19717 #
AD-A137524 ..... 10 p1504 N84-19834 #
AD-A137525 ..... 10 p1504 N84-19835 #
AD-A137526 ..... 10 p1504 N84-19836 #
AD-A137527 ..... 12 p1902 N84-22386 #
AD-A137528 ..... 12 p1908 N84-22430 #
AD-A137529 ..... 11 p1731 N84-21294 #
AD-A137531 ..... 11 p1652 N84-20785 #
AD-A137532 ..... 11 p1691 N84-21032 #
AD-A137533 ..... 11 p1729 N84-21280 #
AD-A137539 ..... 11 p1626 N84-20640 #
AD-A137540 ..... 11 p1729 N84-21281 #
AD-A137541 ..... 11 p1666 N84-20866 #
AD-A137542 ..... 11 p1637 N84-20703 #
AD-A137543 ..... 11 p1694 N84-21054 #
AD-A137549 ..... 11 p1729 N84-21282 #
AD-A137550 ..... 11 p1652 N84-20786 #
AD-A137552 ..... 11 p1706 N84-21119 #
AD-A137554 ..... 11 p1713 N84-21166 #
AD-A137555 ..... 11 p1642 N84-20738 #
AD-A137556 ..... 11 p1643 N84-20739 #
AD-A137559 ..... 06 p0867 N84-15646 #
AD-A137565 ..... 11 p1717 N84-21201 #
AD-A137569 ..... 11 p1643 N84-20740 #
AD-A137572 ..... 11 p1646 N84-20761 #
AD-A137573 ..... 11 p1685 N84-20989 #
AD-A137574 ..... 11 p1685 N84-20990 #
AD-A137575 ..... 11 p1685 N84-20991 #
AD-A137576 ..... 11 p1685 N84-20992 #
AD-A137577 ..... 11 p1685 N84-20993 #
AD-A137578 ..... 11 p1686 N84-20994 #
AD-A137579 ..... 15 p2372 N84-25229 #
AD-A137580 ..... 11 p1686 N84-20995 #
AD-A137581 ..... 11 p1686 N84-20996 #
AD-A137582 ..... 11 p1686 N84-20997 #
AD-A137583 ..... 11 p1686 N84-20998 #
AD-A137584 ..... 11 p1728 N84-21271 #
AD-A137585 ..... 11 p1602 N84-20496 #
AD-A137586 ..... 11 p1624 N84-20629 #
AD-A137589 ..... 07 p1036 N84-16718 #
AD-A137596 ..... 11 p1604 N84-20507 #
AD-A137598 ..... 11 p1646 N84-20762 #
AD-A137599 ..... 11 p1665 N84-20861 #
AD-A137602 ..... 11 p1703 N84-21103 #
AD-A137603 ..... 11 p1729 N84-21278 #
AD-A137604 ..... 11 p1732 N84-21295 #
AD-A137605 ..... 11 p1706 N84-21120 #
AD-A137607 ..... 06 p0775 N84-15076 #
AD-A137610 ..... 11 p1662 N84-20845 #
AD-A137611 ..... 11 p1706 N84-21121 #
AD-A137616 ..... 11 p1646 N84-20763 #
AD-A137617 ..... 11 p1599 N84-20473 #
AD-A137623 ..... 11 p1737 N84-21331* #
AD-A137624 ..... 11 p1713 N84-21167 #
AD-A137628 ..... 11 p1604 N84-20508 #
AD-A137635 ..... 11 p1646 N84-20764 #
AD-A137637 ..... 11 p1643 N84-20741 #
AD-A137639 ..... 11 p1706 N84-21122 #
AD-A137640 ..... 11 p1701 N84-21098 #
AD-A137641 ..... 11 p1620 N84-20603 #
AD-A137644 ..... 11 p1620 N84-20606 #
AD-A137645 ..... 11 p1637 N84-20704 #
AD-A137647 ..... 11 p1607 N84-20523 #
AD-A137651 ..... 11 p1718 N84-21207 #
AD-A137652 ..... 11 p1746 N84-21394 #
AD-A137657 ..... 07 p0949 N84-16158 #
AD-A137661 ..... 11 p1711 N84-21155 #
AD-A137662 ..... 11 p1606 N84-20516 #
AD-A137664 ..... 11 p1695 N84-21055 #
AD-A137666 ..... 11 p1692 N84-21033 #
AD-A137667 ..... 11 p1713 N84-21168 #
AD-A137670 ..... 11 p1599 N84-20474 #
AD-A137673 ..... 11 p1605 N84-20509 #
AD-A137686 ..... 11 p1704 N84-21105 #
AD-A137687 ..... 11 p1704 N84-21106 #
AD-A137688 ..... 11 p1704 N84-21107 #
AD-A137689 ..... 11 p1706 N84-21123 #
AD-A137690 ..... 11 p1668 N84-20881 #
AD-A137691 ..... 11 p1668 N84-20882 #
AD-A137694 ..... 11 p1704 N84-21108 #
AD-A137697 ..... 11 p1643 N84-20742 #
AD-A137698 ..... 11 p1687 N84-20999 #
AD-A137700 ..... 13 p2049 N84-23293 #
AD-A137702 ..... 11 p1643 N84-20743 #
AD-A137710 ..... 11 p1603 N84-20497 #
AD-A137712 ..... 11 p1620 N84-20607 #
AD-A137714 ..... 11 p1730 N84-21283 #
AD-A137715 ..... 11 p1646 N84-20765 #
AD-A137716 ..... 11 p1701 N84-21099 #
AD-A137720 ..... 11 p1646 N84-20766 #
AD-A137722 ..... 11 p1628 N84-20655 #
AD-A137725 ..... 11 p1643 N84-20744 #
AD-A137726 ..... 11 p1660 N84-20830 #
AD-A137727 ..... 11 p1713 N84-21169 #
AD-A137736 ..... 11 p1717 N84-21202 #
AD-A137737 ..... 06 p0798 N84-15199* #
AD-A137738 ..... 11 p1662 N84-20846 #
AD-A137741 ..... 11 p1713 N84-21170 #
AD-A137742 ..... 11 p1713 N84-21171 #
AD-A137743 ..... 12 p1863 N84-22141 #
AD-A137748 ..... 11 p1718 N84-21208 #
AD-A137750 ..... 11 p1730 N84-21284 #
AD-A137751 ..... 11 p1682 N84-20847 #
AD-A137752 ..... 11 p1730 N84-21285 #
AD-A137760 ..... 11 p1713 N84-21172 #
AD-A137761 ..... 11 p1666 N84-20867 #
AD-A137766 ..... 18 p2821 N84-27910 #
AD-A137767 ..... 11 p1706 N84-21124 #
AD-A137769 ..... 11 p1713 N84-21173 #
AD-A137770 ..... 11 p1606 N84-20517 #
AD-A137771 ..... 04 p0543 N84-13578 #
AD-A137772 ..... 11 p1695 N84-21056 #
AD-A137773 ..... 11 p1707 N84-21125 #
AD-A137775 ..... 11 p1603 N84-20498 #
AD-A137776 ..... 11 p1714 N84-21174 #
AD-A137777 ..... 11 p1647 N84-20767 #
AD-A137778 ..... 11 p1681 N84-20973 #
AD-A137779 ..... 11 p1702 N84-21100 #
AD-A137780 ..... 11 p1729 N84-21279 #
AD-A137781 ..... 11 p1695 N84-21057 #
AD-A137782 ..... 18 p2853 N84-28114 #
AD-A137785 ..... 11 p1663 N84-20848 #
AD-A137786 ..... 11 p1707 N84-21126 #
AD-A137787 ..... 04 p0592 N84-13910 #
AD-A137788 ..... 08 p1096 N84-17128 #
AD-A137789 ..... 11 p1668 N84-20883 #
AD-A137791 ..... 11 p1606 N84-20518 #
AD-A137797 ..... 11 p1663 N84-20849 #

AD-A137802 ..... 05 p0646 N84-14250 #
AD-A137804 ..... 11 p1714 N84-21175 #
AD-A137805 ..... 11 p1614 N84-20563 #
AD-A137807 ..... 11 p1627 N84-20651 #
AD-A137808 ..... 11 p1703 N84-21104 #
AD-A137809 ..... 11 p1639 N84-20713 #
AD-A137810 ..... 11 p1714 N84-21176 #
AD-A137811 ..... 11 p1714 N84-21177 #
AD-A137812 ..... 11 p1744 N84-21380 #
AD-A137814 ..... 11 p1619 N84-20601 #
AD-A137815 ..... 11 p1605 N84-20510 #
AD-A137819 ..... 11 p1695 N84-21058 #
AD-A137823 ..... 11 p1750 N84-21420 #
AD-A137826 ..... 11 p1695 N84-21059 #
AD-A137827 ..... 11 p1663 N84-20850 #
AD-A137828 ..... 11 p1750 N84-21421 #
AD-A137836 ..... 11 p1687 N84-21000 #
AD-A137837 ..... 07 p0981 N84-16354* #
AD-A137838 ..... 11 p1750 N84-21422 #
AD-A137839 ..... 04 p0587 N84-13679 #
AD-A137840 ..... 11 p1668 N84-20884 #
AD-A137842 ..... 11 p1637 N84-20705 #
AD-A137844 ..... 11 p1637 N84-20706 #
AD-A137846 ..... 11 p1687 N84-21001 #
AD-A137847 ..... 11 p1682 N84-20974 #
AD-A137848 ..... 11 p1647 N84-20768 #
AD-A137849 ..... 11 p1744 N84-21381 #
AD-A137852 ..... 07 p0980 N84-16351* #
AD-A137853 ..... 11 p1652 N84-20787 #
AD-A137854 ..... 11 p1663 N84-20851 #
AD-A137856 ..... 11 p1626 N84-20641 #
AD-A137859 ..... 11 p1668 N84-20885 #
AD-A137860 ..... 04 p0486 N84-13191 #
AD-A137863 ..... 11 p1682 N84-20975 #
AD-A137866 ..... 05 p0721 N84-14728 #
AD-A137867 ..... 11 p1663 N84-20852 #
AD-A137868 ..... 11 p1695 N84-21060 #
AD-A137869 ..... 11 p1682 N84-20976 #
AD-A137871 ..... 11 p1633 N84-20677 #
AD-A137872 ..... 11 p1633 N84-20678 #
AD-A137875 ..... 11 p1652 N84-20788 #
AD-A137876 ..... 11 p1653 N84-20789 #
AD-A137877 ..... 11 p1687 N84-21002 #
AD-A137878 ..... 11 p1622 N84-20620 #
AD-A137879 ..... 11 p1682 N84-20977 #
AD-A137880 ..... 11 p1647 N84-20769 #
AD-A137881 ..... 11 p1682 N84-20978 #
AD-A137883 ..... 11 p1714 N84-21178 #
AD-A137884 ..... 11 p1683 N84-20853 #
AD-A137885 ..... 11 p1606 N84-20519 #
AD-A137886 ..... 11 p1682 N84-20979 #
AD-A137891 ..... 11 p1641 N84-20730 #
AD-A137892 ..... 11 p1730 N84-21286 #
AD-A137895 ..... 11 p1668 N84-20886 #
AD-A137896 ..... 04 p0483 N84-13174 #
AD-A137897 ..... 05 p0715 N84-14682 #
AD-A137898 ..... 05 p0661 N84-14344 #
AD-A137901 ..... 11 p1643 N84-20745 #
AD-A137902 ..... 11 p1633 N84-20679 #
AD-A137903 ..... 11 p1665 N84-20862 #
AD-A137908 ..... 05 p0646 N84-14249 #
AD-A137909 ..... 11 p1660 N84-20831 #
AD-A137911 ..... 11 p1687 N84-21003 #
AD-A137912 ..... 07 p0980 N84-16353* #
AD-A137913 ..... 05 p0662 N84-14353 #
AD-A137914 ..... 11 p1638 N84-20707 #
AD-A137916 ..... 11 p1732 N84-21296 #
AD-A137919 ..... 11 p1647 N84-20770 #
AD-A137920 ..... 11 p1714 N84-21179* #
AD-A137921 ..... 11 p1714 N84-21180 #
AD-A137922 ..... 11 p1759 N84-21481 #
AD-A137926 ..... 11 p1671 N84-20906 #
AD-A137927 ..... 11 p1744 N84-21382 #
AD-A137928 ..... 11 p1715 N84-21181 #
AD-A137929 ..... 11 p1715 N84-21182 #
AD-A137930 ..... 11 p1715 N84-21183 #
AD-A137931 ..... 11 p1669 N84-20887 #
AD-A137932 ..... 11 p1644 N84-20746 #
AD-A137934 ..... 05 p0683 N84-14493 #
AD-A137935 ..... 11 p1653 N84-20790 #
AD-A137936 ..... 11 p1717 N84-21203 #
AD-A137937 ..... 11 p1715 N84-21184 #
AD-A137938 ..... 11 p1715 N84-21185 #
AD-A137939 ..... 11 p1718 N84-21209 #
AD-A137940 ..... 11 p1707 N84-21127 #
AD-A137941 ..... 11 p1711 N84-21157 #
AD-A137942 ..... 11 p1715 N84-21186 #
AD-A137943 ..... 11 p1746 N84-21395 #
AD-A137944 ..... 11 p1644 N84-20747 #
AD-A137947 ..... 11 p1644 N84-20748 #
AD-A137948 ..... 11 p1715 N84-21187 #
AD-A137949 ..... 11 p1715 N84-21188 #
AD-A137950 ..... 11 p1716 N84-21189 #
AD-A137952 ..... 11 p1628 N84-20656 #
AD-A137953 ..... 11 p1716 N84-21190 #
AD-A137954 ..... 11 p1669 N84-20888 #
AD-A137955 ..... 11 p1707 N84-21128 #
AD-A137956 ..... 11 p1707 N84-21129 #
AD-A137957 ..... 11 p1708 N84-21130 #
AD-A137958 ..... 12 p1896 N84-22348 #
AD-A137959 ..... 18 p2924 N84-28545 #
AD-A137960 ..... 12 p1893 N84-22329 #
AD-A137961 ..... 12 p1877 N84-22231 #
AD-A137962 ..... 12 p1866 N84-22163 #
AD-A137963 ..... 12 p1909 N84-22439 #
AD-A137966 ..... 12 p1901 N84-22381 #
AD-A137968 ..... 12 p1913 N84-22461 #
AD-A137969 ..... 12 p1815 N84-21834 #
AD-A137970 ..... 12 p1913 N84-22462 #
AD-A137971 ..... 12 p1797 N84-21722 #
AD-A137972 ..... 12 p1811 N84-21804 #
AD-A137973 ..... 13 p2022 N84-23110 #
AD-A137976 ..... 12 p1797 N84-21723 #
AD-A137977 ..... 12 p1879 N84-22246 #
AD-A137978 ..... 13 p2022 N84-23111 #
AD-A137981 ..... 12 p1811 N84-21805 #
AD-A137982 ..... 12 p1847 N84-22042 #
AD-A137983 ..... 12 p1819 N84-21859 #
AD-A137987 ..... 12 p1917 N84-22493 #
AD-A137988 ..... 12 p1801 N84-21742 #
AD-A137992 ..... 12 p1901 N84-22382 #
AD-A137993 ..... 13 p2011 N84-23048 #
AD-A137996 ..... 12 p1816 N84-21835 #
AD-A137999 ..... 12 p1805 N84-21769 #
AD-A138005 ..... 12 p1770 N84-21543 #
AD-A138006 ..... 12 p1879 N84-22247 #
AD-A138007 ..... 12 p1896 N84-22349 #
AD-A138008 ..... 12 p1805 N84-21770 #
AD-A138009 ..... 12 p1879 N84-22248 #
AD-A138011 ..... 12 p1772 N84-21554 #
AD-A138012 ..... 12 p1918 N84-22496 #
AD-A138013 ..... 12 p1824 N84-21890 #
AD-A138014 ..... 12 p1867 N84-22170 #
AD-A138015 ..... 12 p1901 N84-22383 #
AD-A138016 ..... 12 p1893 N84-22330 #
AD-A138018 ..... 12 p1826 N84-21906 #
AD-A138019 ..... 12 p1893 N84-22331 #
AD-A138020 ..... 12 p1893 N84-22332 #
AD-A138021 ..... 12 p1805 N84-21771 #
AD-A138022 ..... 12 p1879 N84-22249 #
AD-A138024 ..... 12 p1811 N84-21806 #
AD-A138025 ..... 12 p1879 N84-22250 #
AD-A138026 ..... 12 p1811 N84-21807 #
AD-A138027 ..... 12 p1880 N84-22251 #
AD-A138028 ..... 12 p1806 N84-21772 #
AD-A138029 ..... 12 p1880 N84-22252 #
AD-A138033 ..... 13 p1943 N84-22632 #
AD-A138034 ..... 12 p1811 N84-21808 #
AD-A138036 ..... 12 p1897 N84-22354 #
AD-A138037 ..... 12 p1791 N84-21678 #
AD-A138038 ..... 12 p1791 N84-21679 #
AD-A138040 ..... 12 p1789 N84-21669 #
AD-A138041 ..... 12 p1913 N84-22463 #
AD-A138042 ..... 12 p1868 N84-22171 #
AD-A138047 ..... 12 p1770 N84-21544 #
AD-A138048 ..... 12 p1778 N84-21600 #
AD-A138049 ..... 12 p1806 N84-21773 #
AD-A138052 ..... 12 p1797 N84-21724 #
AD-A138054 ..... 12 p1822 N84-21880 #
AD-A138055 ..... 12 p1820 N84-21860 #
AD-A138056 ..... 12 p1820 N84-21861 #
AD-A138057 ..... 12 p1820 N84-21862 #
AD-A138058 ..... 12 p1772 N84-21555 #
AD-A138059 ..... 18 p2945 N84-28672 #
AD-A138061 ..... 12 p1880 N84-22253 #
AD-A138062 ..... 12 p1893 N84-22333 #
AD-A138063 ..... 12 p1791 N84-21680 #
AD-A138064 ..... 12 p1818 N84-21851 #
AD-A138065 ..... 18 p2920 N84-28520 #
AD-A138066 ..... 12 p1907 N84-22424 #
AD-A138068 ..... 12 p1806 N84-21774 #
AD-A138069 ..... 12 p1868 N84-22172 #
AD-A138070 ..... 12 p1767 N84-21527 #
AD-A138071 ..... 12 p1880 N84-22254 #
AD-A138072 ..... 12 p1880 N84-22255 #
AD-A138074 ..... 12 p1894 N84-22334 #
AD-A138075 ..... 12 p1806 N84-21775 #
AD-A138076 ..... 12 p1820 N84-21863 #
AD-A138077 ..... 12 p1894 N84-22335 #
AD-A138078 ..... 12 p1880 N84-22256 #
AD-A138080 ..... 12 p1902 N84-22384 #
AD-A138082 ..... 12 p1877 N84-22232 #
AD-A138083 ..... 12 p1880 N84-22257 #
AD-A138091 ..... 12 p1789 N84-21670 #
AD-A138092 ..... 12 p1767 N84-21528 #
AD-A138093 ..... 12 p1772 N84-21556 #
AD-A138094 ..... 12 p1913 N84-22464 #
AD-A138096 ..... 12 p1907 N84-22425 #
AD-A138099 ..... 12 p1818 N84-21852 #
AD-A138100 ..... 12 p1898 N84-22359 #
AD-A138101 ..... 12 p1811 N84-21809 #
AD-A138102 ..... 12 p1820 N84-21864 #

AD-A138109 ..... 12 p1881 N84-22258 #
AD-A138113 ..... 12 p1806 N84-21776 #
AD-A138114 ..... 12 p1801 N84-21743 #
AD-A138115 ..... 12 p1768 N84-21529 #
AD-A138116 ..... 12 p1877 N84-22233 #
AD-A138117 ..... 12 p1916 N84-22497 #
AD-A138118 ..... 12 p1891 N84-22319 #
AD-A138119 ..... 12 p1806 N84-21777 #
AD-A138121 ..... 12 p1881 N84-22259 #
AD-A138122 ..... 12 p1820 N84-21865 #
AD-A138123 ..... 12 p1896 N84-22360 #
AD-A138124 ..... 12 p1797 N84-21725 #
AD-A138126 ..... 12 p1868 N84-22173 #
AD-A138127 ..... 12 p1907 N84-22426 #
AD-A138129 ..... 18 p2818 N84-27890 #
AD-A138130 ..... 12 p1791 N84-21681 #
AD-A138136 ..... 12 p1860 N84-22118 #
AD-A138142 ..... 12 p1899 N84-22366 #
AD-A138143 ..... 12 p1790 N84-21671 #
AD-A138144 ..... 12 p1909 N84-22440 #
AD-A138145 ..... 12 p1816 N84-21836 #
AD-A138148 ..... 12 p1791 N84-21682 #
AD-A138149 ..... 12 p1913 N84-22465 #
AD-A138151 ..... 12 p1770 N84-21545 #
AD-A138152 ..... 12 p1807 N84-21778 #
AD-A138153 ..... 12 p1877 N84-22234 #
AD-A138154 ..... 12 p1798 N84-21726 #
AD-A138155 ..... 15 p2306 N84-24833 #
AD-A138156 ..... 12 p1816 N84-21837 #
AD-A138158 ..... 10 p1506 N84-19852 #
AD-A138160 ..... 12 p1881 N84-22260 #
AD-A138163 ..... 12 p1918 N84-22498 #
AD-A138167 ..... 12 p1918 N84-22499 #
AD-A138168 ..... 12 p1818 N84-21853 #
AD-A138175 ..... 12 p1791 N84-21683 #
AD-A138184 ..... 12 p1783 N84-21632 #
AD-A138186 ..... 12 p1796 N84-21727 #
AD-A138194 ..... 12 p1881 N84-22261 #
AD-A138195 ..... 12 p1792 N84-21684 #
AD-A138196 ..... 12 p1881 N84-22262 #
AD-A138197 ..... 12 p1881 N84-22263 #
AD-A138198 ..... 12 p1820 N84-21866 #
AD-A138201 ..... 18 p2929 N84-28571 #
AD-A138202 ..... 12 p1881 N84-22264 #
AD-A138203 ..... 12 p1913 N84-22466 #
AD-A138205 ..... 13 p2049 N84-23292 #
AD-A138206 ..... 12 p1807 N84-21779 #
AD-A138207 ..... 12 p1792 N84-21685 #
AD-A138208 ..... 12 p1836 N84-21970 #
AD-A138211 ..... 12 p1772 N84-21557 #
AD-A138212 ..... 12 p1804 N84-21760 #
AD-A138213 ..... 12 p1812 N84-21810* #
AD-A138214 ..... 12 p1792 N84-21686 #
AD-A138220 ..... 12 p1882 N84-22265 #
AD-A138221 ..... 12 p1790 N84-21672 #
AD-A138224 ..... 12 p1860 N84-22119 #
AD-A138226 ..... 12 p1770 N84-21546 #
AD-A138228 ..... 12 p1768 N84-21530 #
AD-A138229 ..... 13 p1975 N84-22821 #
AD-A138230 ..... 12 p1807 N84-21780 #
AD-A138233 ..... 13 p2092 N84-23550 #
AD-A138234 ..... 12 p1896 N84-22350 #
AD-A138239 ..... 12 p1882 N84-22266 #
AD-A138241 ..... 12 p1914 N84-22467 #
AD-A138242 ..... 17 p2734 N84-27381 #
AD-A138245 ..... 12 p1899 N84-22367 #
AD-A138250 ..... 12 p1792 N84-21687 #
AD-A138253 ..... 12 p1798 N84-21728 #
AD-A138254 ..... 12 p1899 N84-22368 #
AD-A138255 ..... 12 p1914 N84-22468 #
AD-A138257 ..... 13 p2018 N84-23087 #
AD-A138267 ..... 12 p1768 N84-21531 #
AD-A138268 ..... 12 p1894 N84-22336 #
AD-A138269 ..... 12 p1772 N84-21558 #
AD-A138270 ..... 13 p2018 N84-23088 #
AD-A138271 ..... 13 p2019 N84-23094 #
AD-A138273 ..... 12 p1826 N84-21907 #
AD-A138274 ..... 12 p1894 N84-22337 #
AD-A138275 ..... 12 p1914 N84-22469 #
AD-A138276 ..... 12 p1860 N84-22120 #
AD-A138277 ..... 12 p1778 N84-21601 #
AD-A138278 ..... 12 p1773 N84-21563 #
AD-A138280 ..... 12 p1820 N84-21867 #
AD-A138281 ..... 12 p1860 N84-22121 #
AD-A138282 ..... 12 p1882 N84-22267 #
AD-A138283 ..... 12 p1768 N84-21532 #
AD-A138285 ..... 12 p1910 N84-22441 #
AD-A138286 ..... 12 p1807 N84-21781 #
AD-A138294 ..... 12 p1812 N84-21811 #
AD-A138296 ..... 12 p1798 N84-21729 #
AD-A138299 ..... 12 p1792 N84-21688 #
AD-A138301 ..... 12 p1768 N84-21533 #
AD-A138305 ..... 12 p1792 N84-21689 #
AD-A138309 ..... 12 p1882 N84-22268 #
AD-A138310 ..... 12 p1914 N84-22470 #
AD-A138311 ..... 12 p1902 N84-22385 #
AD-A138313 ..... 12 p1812 N84-21812 #
AD-A138316 ..... 12 p1821 N84-21868 #
AD-A138318 ..... 12 p1896 N84-22351 #
AD-A138319 ..... 12 p1882 N84-22269 #
AD-A138320 ..... 12 p1793 N84-21690 #
AD-A138321 ..... 12 p1793 N84-21691 #
AD-A138322 ..... 12 p1793 N84-21692 #
AD-A138324 ..... 12 p1821 N84-21869 #
AD-A138327 ..... 12 p1914 N84-22471 #
AD-A138328 ..... 12 p1868 N84-22174 #
AD-A138329 ..... 12 p1919 N84-22500 #
AD-A138330 ..... 13 p2020 N84-23099 #
AD-A138333 ..... 12 p1877 N84-22235 #
AD-A138339 ..... 12 p1812 N84-21813 #
AD-A138345 ..... 13 p2092 N84-23548 #
AD-A138346 ..... 12 p1868 N84-22175 #
AD-A138347 ..... 08 p1096 N84-17124 #
AD-A138349 ..... 12 p1807 N84-21782 #
AD-A138350 ..... 12 p1894 N84-22338 #
AD-A138351 ..... 12 p1897 N84-22352 #
AD-A138355 ..... 12 p1914 N84-22472 #
AD-A138357 ..... 07 p1058 N84-16854* #
AD-A138358 ..... 13 p2020 N84-23100 #
AD-A138359 ..... 13 p2022 N84-23112 #
AD-A138360 ..... 12 p1812 N84-21814 #
AD-A138361 ..... 12 p1865 N84-22153 #
AD-A138364 ..... 12 p1865 N84-22154 #
AD-A138365 ..... 12 p1919 N84-22501 #
AD-A138367 ..... 12 p1865 N84-22155 #
AD-A138374 ..... 12 p1894 N84-22339 #
AD-A138377 ..... 13 p2091 N84-23545* #
AD-A138378 ..... 12 p1916 N84-22485 #
AD-A138379 ..... 12 p1773 N84-21559 #
AD-A138380 ..... 12 p1793 N84-21693 #
AD-A138381 ..... 12 p1793 N84-21694 #
AD-A138382 ..... 12 p1793 N84-21695 #
AD-A138383 ..... 12 p1771 N84-21547 #
AD-A138385 ..... 12 p1803 N84-21753 #
AD-A138390 ..... 12 p1914 N84-22473 #
AD-A138391 ..... 12 p1812 N84-21815 #
AD-A138392 ..... 12 p1836 N84-21971 #
AD-A138393 ..... 12 p1867 N84-22164 #
AD-A138394 ..... 12 p1898 N84-22361 #
AD-A138397 ..... 12 p1807 N84-21783 #
AD-A138398 ..... 12 p1882 N84-22270 #
AD-A138400 ..... 20 p3315 N84-31051 #
AD-A138401 ..... 12 p1898 N84-22362 #
AD-A138402 ..... 12 p1801 N84-21744 #
AD-A138404 ..... 12 p1894 N84-22340 #
AD-A138406 ..... 12 p1882 N84-22271 #
AD-A138407 ..... 12 p1865 N84-22156 #
AD-A138411 ..... 12 p1801 N84-21745 #
AD-A138412 ..... 12 p1908 N84-22427 #
AD-A138413 ..... 12 p1883 N84-22272 #
AD-A138421 ..... 12 p1908 N84-22428 #
AD-A138425 ..... 12 p1773 N84-21560 #
AD-A138427 ..... 12 p1813 N84-21816 #
AD-A138429 ..... 12 p1883 N84-22273 #
AD-A138433 ..... 12 p1883 N84-22274 #
AD-A138434 ..... 12 p1822 N84-21881 #
AD-A138454 ..... 12 p1915 N84-22474 #
AD-A138455 ..... 12 p1878 N84-22236 #
AD-A138465 ..... 12 p1878 N84-22237 #
AD-A138466 ..... 12 p1883 N84-22275 #
AD-A138467 ..... 12 p1808 N84-21784 #
AD-A138468 ..... 12 p1895 N84-22341 #
AD-A138470 ..... 12 p1861 N84-22122 #
AD-A138471 ..... 12 p1845 N84-22027 #
AD-A138474 ..... 12 p1773 N84-21564 #
AD-A138477 ..... 12 p1883 N84-22276 #
AD-A138478 ..... 12 p1884 N84-22277 #
AD-A138480 ..... 12 p1919 N84-22502 #
AD-A138481 ..... 12 p1892 N84-22320 #
AD-A138483 ..... 12 p1821 N84-21870 #
AD-A138485 ..... 12 p1908 N84-22429 #
AD-A138487 ..... 12 p1801 N84-21746 #
AD-A138491 ..... 12 p1899 N84-22369 #
AD-A138494 ..... 12 p1823 N84-21882 #
AD-A138495 ..... 08 p1166 N84-17590* #
AD-A138496 ..... 12 p1774 N84-21565 #
AD-A138500 ..... 12 p1919 N84-22503 #
AD-A138501 ..... 12 p1866 N84-22157 #
AD-A138502 ..... 12 p1920 N84-22510 #
AD-A138503 ..... 12 p1884 N84-22278 #
AD-A138504 ..... 12 p1778 N84-21602 #
AD-A138506 ..... 12 p1895 N84-22342 #
AD-A138515 ..... 12 p1764 N84-21504 #
AD-A138516 ..... 12 p1764 N84-21505 #
AD-A138519 ..... 12 p1798 N84-21730 #
AD-A138520 ..... 13 p2021 N84-23101 #
AD-A138522 ..... 11 p1709 N84-21140 #
AD-A138524 ..... 12 p1861 N84-22123 #
AD-A138525 ..... 12 p1808 N84-21785 #
AD-A138531 ..... 12 p1764 N84-21506 #
AD-A138533 ..... 13 p2028 N84-23151 #
AD-A138535 ..... 14 p2184 N84-24087 #

AD-A138536 ..... 13 p2020 N84-23097 #
AD-A138538 ..... 13 p2001 N84-22981 #
AD-A138541 ..... 13 p2024 N84-23124 #
AD-A138542 ..... 13 p2011 N84-23042 #
AD-A138543 ..... 13 p1982 N84-22865 #
AD-A138544 ..... 13 p2011 N84-23043 #
AD-A138545 ..... 13 p1982 N84-22866 #
AD-A138546 ..... 13 p1997 N84-22961 #
AD-A138547 ..... 13 p2001 N84-22982 #
AD-A138551 ..... 13 p1963 N84-22754 #
AD-A138557 ..... 13 p1982 N84-22867 #
AD-A138558 ..... 15 p2374 N84-25243 #
AD-A138558 ..... 17 p2737 N84-27387 #
AD-A138559 ..... 14 p2176 N84-24036 #
AD-A138569 ..... 13 p1929 N84-22547 #
AD-A138571 ..... 13 p1960 N84-22736 #
AD-A138574 ..... 13 p2036 N84-23206 #
AD-A138575 ..... 13 p1965 N84-22769 #
AD-A138580 ..... 13 p1995 N84-22945 #
AD-A138581 ..... 13 p1960 N84-22737 #
AD-A138582 ..... 13 p2023 N84-23120 #
AD-A138585 ..... 13 p1955 N84-22713 #
AD-A138587 ..... 13 p1925 N84-22528 #
AD-A138589 ..... 14 p2246 N84-24490 #
AD-A138597 ..... 14 p2183 N84-24080 #
AD-A138598 ..... 13 p1993 N84-22936 #
AD-A138600 ..... 06 p0768 N84-15034 #
AD-A138601 ..... 13 p1956 N84-22714 #
AD-A138602 ..... 13 p2042 N84-23252 #
AD-A138603 ..... 14 p2186 N84-24096 #
AD-A138604 ..... 13 p1982 N84-22868 #
AD-A138614 ..... 13 p1977 N84-22835 #
AD-A138632 ..... 13 p1940 N84-22616 #
AD-A138633 ..... 13 p2011 N84-23044 #
AD-A138642 ..... 13 p2024 N84-23121 #
AD-A138644 ..... 13 p1993 N84-22937 #
AD-A138645 ..... 14 p2251 N84-24521 #
AD-A138646 ..... 13 p2011 N84-23045 #
AD-A138647 ..... 13 p1982 N84-22869 #
AD-A138648 ..... 13 p1982 N84-22870 #
AD-A138649 ..... 13 p1926 N84-22538 #
AD-A138650 ..... 13 p1982 N84-22871 #
AD-A138651 ..... 13 p2044 N84-23266 #
AD-A138656 ..... 13 p2043 N84-23253 #
AD-A138657 ..... 13 p1983 N84-22872 #
AD-A138658 ..... 13 p1954 N84-22703 #
AD-A138660 ..... 14 p2141 N84-23837 #
AD-A138661 ..... 13 p1989 N84-22914 #
AD-A138662 ..... 13 p1986 N84-22893 #
AD-A138663 ..... 13 p2028 N84-23152 #
AD-A138673 ..... 15 p2304 N84-24825 #
AD-A138674 ..... 13 p1929 N84-22548 #
AD-A138680 ..... 13 p1986 N84-22894 #
AD-A138681 ..... 13 p1983 N84-22873 #
AD-A138683 ..... 13 p1995 N84-22946 #
AD-A138685 ..... 13 p1995 N84-22947 #
AD-A138693 ..... 13 p2046 N84-23278 #
AD-A138694 ..... 13 p2021 N84-23107 #
AD-A138697 ..... 13 p1989 N84-22915 #
AD-A138710 ..... 15 p2380 N84-25285 #
AD-A138710 ..... 17 p2745 N84-27429 #
AD-A138714 ..... 13 p1960 N84-22738 #
AD-A138717 ..... 13 p1983 N84-22874 #
AD-A138719 ..... 13 p2033 N84-23182 #
AD-A138720 ..... 13 p2036 N84-23207 #
AD-A138721 ..... 13 p2036 N84-23208 #
AD-A138722 ..... 13 p1990 N84-22916 #
AD-A138729 ..... 13 p1937 N84-22599 #
AD-A138730 ..... 13 p1966 N84-22770 #
AD-A138736 ..... 13 p2043 N84-23254 #
AD-A138738 ..... 13 p1963 N84-22755 #
AD-A138740 ..... 13 p2043 N84-23255 #
AD-A138742 ..... 13 p1995 N84-22948 #
AD-A138743 ..... 13 p2017 N84-23074 #
AD-A138744 ..... 13 p1963 N84-22756 #
AD-A138745 ..... 13 p2036 N84-23209 #
AD-A138753 ..... 13 p2011 N84-23046 #
AD-A138756 ..... 13 p1956 N84-22715 #
AD-A138759 ..... 13 p1929 N84-22549 #
AD-A138760 ..... 13 p1963 N84-22757 #
AD-A138761 ..... 14 p2185 N84-24093 #
AD-A138779 ..... 13 p1974 N84-22809 #
AD-A138783 ..... 13 p1984 N84-22758 #
AD-A138787 ..... 14 p2186 N84-24097 #
AD-A138788 ..... 13 p1986 N84-22895 #
AD-A138791 ..... 13 p1986 N84-22896 #
AD-A138792 ..... 13 p2017 N84-23075 #
AD-A138794 ..... 13 p1933 N84-22569 #
AD-A138795 ..... 13 p1927 N84-22539 #
AD-A138808 ..... 13 p1983 N84-22875 #
AD-A138809 ..... 13 p2006 N84-23013 #
AD-A138810 ..... 13 p1930 N84-22554 #
AD-A138814 ..... 13 p1995 N84-22949 #
AD-A138831 ..... 13 p2001 N84-22983 #
AD-A138834 ..... 13 p1984 N84-22759 #
AD-A138839 ..... 13 p1999 N84-22970 #
AD-A138840 ..... 13 p2067 N84-23402 #
AD-A138841 ..... 13 p2009 N84-23029 #
AD-A138842 ..... 13 p1952 N84-22694 #
AD-A138843 ..... 13 p2043 N84-23256 #
AD-A138844 ..... 13 p1928 N84-22545 #
AD-A138846 ..... 13 p2017 N84-23076 #
AD-A138847 ..... 13 p2020 N84-23098 #
AD-A138851 ..... 13 p2064 N84-23384 #
AD-A138853 ..... 13 p2022 N84-23108 #
AD-A138854 ..... 13 p2046 N84-23279 #
AD-A138858 ..... 13 p1964 N84-22760 #
AD-A138862 ..... 13 p1974 N84-22810 #
AD-A138865 ..... 13 p1927 N84-22540 #
AD-A138867 ..... 13 p2033 N84-23183 #
AD-A138868 ..... 13 p2044 N84-23267 #
AD-A138871 ..... 14 p2247 N84-24491 #
AD-A138872 ..... 13 p2044 N84-23268 #
AD-A138876 ..... 13 p2033 N84-23184 #
AD-A138887 ..... 14 p2105 N84-23625 #
AD-A138888 ..... 14 p2186 N84-24098 #
AD-A138889 ..... 14 p2186 N84-24099 #
AD-A138890 ..... 14 p2169 N84-23995 #
AD-A138891 ..... 14 p2203 N84-24223 #
AD-A138892 ..... 14 p2203 N84-24224 #
AD-A138893 ..... 14 p2203 N84-24225 #
AD-A138894 ..... 14 p2185 N84-24094 #
AD-A138896 ..... 14 p2221 N84-24328 #
AD-A138897 ..... 14 p2186 N84-24100 #
AD-A138900 ..... 14 p2102 N84-23612 #
AD-A138904 ..... 14 p2183 N84-24081 #
AD-A138905 ..... 13 p2030 N84-23164 #
AD-A138907 ..... 13 p2067 N84-23403 #
AD-A138908 ..... 13 p2025 N84-23125 #
AD-A138910 ..... 13 p1967 N84-22897 #
AD-A138911 ..... 13 p1995 N84-22950 #
AD-A138912 ..... 14 p2252 N84-24522* #
AD-A138913 ..... 13 p2064 N84-23385 #
AD-A138915 ..... 13 p2033 N84-23185 #
AD-A138924 ..... 13 p2001 N84-22984 #
AD-A138927 ..... 13 p2028 N84-23153 #
AD-A138930 ..... 13 p1930 N84-22555 #
AD-A138935 ..... 13 p2029 N84-23154 #
AD-A138937 ..... 13 p2029 N84-23155 #
AD-A138938 ..... 13 p2047 N84-23280 #
AD-A138943 ..... 13 p2011 N84-23047 #
AD-A138944 ..... 13 p1995 N84-22951 #
AD-A138945 ..... 13 p1996 N84-22952 #
AD-A138946 ..... 13 p2040 N84-23236 #
AD-A138952 ..... 13 p2024 N84-23122 #
AD-A138953 ..... 13 p2037 N84-23215 #
AD-A138954 ..... 13 p2040 N84-23237 #
AD-A138955 ..... 13 p2033 N84-23186 #
AD-A138963 ..... 11 p1605 N84-20513 #
AD-A138964 ..... 11 p1603 N84-20499 #
AD-A138965 ..... 11 p1699 N84-21082 #
AD-A138968 ..... 13 p1983 N84-22876 #
AD-A138972 ..... 13 p1935 N84-22587 #
AD-A138973 ..... 14 p2185 N84-24095 #
AD-A138975 ..... 13 p2025 N84-23126 #
AD-A138976 ..... 13 p1983 N84-22877 #
AD-A138977 ..... 13 p1964 N84-22761 #
AD-A138978 ..... 13 p2047 N84-23281 #
AD-A138979 ..... 13 p2043 N84-23257 #
AD-A138991 ..... 13 p1929 N84-22550 #
AD-A138992 ..... 13 p2047 N84-23282 #
AD-A138995 ..... 13 p2047 N84-23283 #
AD-A138998 ..... 14 p2231 N84-24381 #
AD-A138999 ..... 13 p1990 N84-22917 #
AD-A139004 ..... 11 p1761 N84-21490 #
AD-A139014 ..... 13 p2043 N84-23258 #
AD-A139016 ..... 13 p1964 N84-22762 #
AD-A139017 ..... 14 p2170 N84-23996 #
AD-A139019 ..... 13 p2022 N84-23109 #
AD-A139021 ..... 13 p1956 N84-22716 #
AD-A139023 ..... 10 p1546 N84-20136 #
AD-A139024 ..... 13 p1993 N84-22938 #
AD-A139025 ..... 13 p2067 N84-23404 #
AD-A139027 ..... 13 p1984 N84-22878 #
AD-A139028 ..... 13 p2029 N84-23156 #
AD-A139030 ..... 13 p2033 N84-23187 #
AD-A139033 ..... 13 p2041 N84-23240 #
AD-A139037 ..... 13 p2024 N84-23123 #
AD-A139039 ..... 14 p2187 N84-24101 #
AD-A139040 ..... 13 p1956 N84-22717 #
AD-A139042 ..... 13 p2001 N84-22985 #
AD-A139043 ..... 13 p1956 N84-22718 #
AD-A139045 ..... 13 p1956 N84-22719 #
AD-A139047 ..... 13 p1956 N84-22720 #
AD-A139049 ..... 13 p2047 N84-23284 #
AD-A139050 ..... 15 p2253 N84-24529 #
AD-A139051 ..... 13 p2041 N84-23241 #
AD-A139053 ..... 13 p2039 N84-23232 #
AD-A139054 ..... 13 p1957 N84-22721 #
AD-A139055 ..... 13 p1957 N84-22722 #
AD-A139057 ..... 13 p2034 N84-23188 #
AD-A139058 ..... 13 p1957 N84-22723 #

AD-A139063 ..... 13 p1890 N84-22918 #
AD-A139064 ..... 13 p1954 N84-22704 #
AD-A139065 ..... 13 p2001 N84-22986 #
AD-A139066 ..... 13 p2041 N84-23242 #
AD-A139067 ..... 13 p2047 N84-23285 #
AD-A139069 ..... 15 p2318 N84-24910 #
AD-A139070 ..... 15 p2415 N84-25501 #
AD-A139072 ..... 13 p2002 N84-22987 #
AD-A139073 ..... 13 p1990 N84-22919 #
AD-A139074 ..... 13 p1957 N84-22724 #
AD-A139077 ..... 14 p2183 N84-24082 #
AD-A139078 ..... 14 p2247 N84-24492 #
AD-A139079 ..... 13 p1964 N84-22763 #
AD-A139080 ..... 13 p2029 N84-23157 #
AD-A139081 ..... 13 p1957 N84-22725 #
AD-A139082 ..... 13 p2002 N84-22988 #
AD-A139083 ..... 14 p2247 N84-24493 #
AD-A139084 ..... 14 p2246 N84-24487 #
AD-A139086 ..... 13 p1961 N84-22739 #
AD-A139088 ..... 14 p2170 N84-23997 #
AD-A139090 ..... 13 p1931 N84-22556 #
AD-A139092 ..... 13 p1961 N84-22740 #
AD-A139096 ..... 14 p2205 N84-24231 #
AD-A139097 ..... 14 p2139 N84-23826 #
AD-A139098 ..... 12 p1821 N84-21874 #
AD-A139099 ..... 14 p2179 N84-24051 #
AD-A139101 ..... 14 p2121 N84-23713 #
AD-A139104 ..... 14 p2202 N84-24217 #
AD-A139107 ..... 14 p2101 N84-23609 #
AD-A139111 ..... 14 p2155 N84-23910 #
AD-A139112 ..... 14 p2202 N84-24218 #
AD-A139116 ..... 14 p2224 N84-24347 #
AD-A139117 ..... 14 p2142 N84-23842 #
AD-A139119 ..... 14 p2127 N84-23753 #
AD-A139120 ..... 14 p2211 N84-24279 #
AD-A139121 ..... 14 p2150 N84-23881 #
AD-A139122 ..... 14 p2175 N84-24032 #
AD-A139123 ..... 14 p2205 N84-24232 #
AD-A139124 ..... 14 p2169 N84-23993 #
AD-A139125 ..... 14 p2145 N84-23856 #
AD-A139126 ..... 14 p2179 N84-24052 #
AD-A139127 ..... 14 p2121 N84-23714 #
AD-A139128 ..... 14 p2119 N84-23701 #
AD-A139129 ..... 14 p2179 N84-24053 #
AD-A139130 ..... 14 p2113 N84-23663 #
AD-A139133 ..... 14 p2179 N84-24054 #
AD-A139134 ..... 14 p2145 N84-23857 #
AD-A139136 ..... 14 p2101 N84-23610 #
AD-A139137 ..... 14 p2129 N84-23766 #
AD-A139139 ..... 14 p2184 N84-24086 #
AD-A139141 ..... 14 p2187 N84-24105 #
AD-A139144 ..... 14 p2139 N84-23827 #
AD-A139145 ..... 14 p2104 N84-23618 #
AD-A139147 ..... 14 p2140 N84-23828 #
AD-A139148 ..... 14 p2222 N84-24332 #
AD-A139154 ..... 14 p2176 N84-24033 #
AD-A139162 ..... 14 p2140 N84-23829 #
AD-A139166 ..... 14 p2119 N84-23702 #
AD-A139170 ..... 14 p2122 N84-23715 #
AD-A139172 ..... 14 p2228 N84-24358 #
AD-A139173 ..... 14 p2114 N84-23669 #
AD-A139174 ..... 14 p2122 N84-23716 #
AD-A139175 ..... 14 p2155 N84-23911 #
AD-A139176 ..... 14 p2104 N84-23619 #
AD-A139179 ..... 14 p2241 N84-24458 #
AD-A139181 ..... 14 p2212 N84-24280 #
AD-A139182 ..... 14 p2132 N84-23776 #
AD-A139184 ..... 14 p2212 N84-24281 #
AD-A139188 ..... 14 p2228 N84-24359 #
AD-A139189 ..... 14 p2150 N84-23882 #
AD-A139190 ..... 14 p2202 N84-24219 #
AD-A139191 ..... 14 p2224 N84-24348 #
AD-A139194 ..... 14 p2122 N84-23717 #
AD-A139200 ..... 14 p2122 N84-23718 #
AD-A139201 ..... 14 p2132 N84-23777 #
AD-A139205 ..... 14 p2158 N84-23927 #
AD-A139215 ..... 14 p2120 N84-23703 #
AD-A139222 ..... 14 p2173 N84-24017 #
AD-A139224 ..... 14 p2196 N84-24173 #
AD-A139227 ..... 14 p2242 N84-24459 #
AD-A139233 ..... 14 p2228 N84-24360 #
AD-A139234 ..... 14 p2134 N84-23787 #
AD-A139236 ..... 14 p2134 N84-23788 #
AD-A139237 ..... 14 p2212 N84-24282 #
AD-A139238 ..... 14 p2212 N84-24283 #
AD-A139239 ..... 14 p2218 N84-24308 #
AD-A139240 ..... 14 p2205 N84-24233 #
AD-A139241 ..... 14 p2120 N84-23704 #
AD-A139251 ..... 14 p2209 N84-24262 #
AD-A139252 ..... 12 p1805 N84-21766
AD-A139253 ..... 16 p2483 N84-25923
AD-A139254 ..... 14 p2212 N84-24284 #
AD-A139255 ..... 14 p2212 N84-24285 #
AD-A139256 ..... 14 p2212 N84-24286 #
AD-A139257 ..... 14 p2187 N84-24106 #
AD-A139258 ..... 14 p2130 N84-23767 #
AD-A139259 ..... 14 p2213 N84-24287 #
AD-A139260 ..... 14 p2213 N84-24288 #
AD-A139261 ..... 14 p2213 N84-24289 #
AD-A139262 ..... 14 p2122 N84-23719 #
AD-A139264 ..... 14 p2140 N84-23830 #
AD-A139265 ..... 14 p2228 N84-24361 #
AD-A139266 ..... 14 p2145 N84-23858 #
AD-A139268 ..... 14 p2218 N84-24309 #
AD-A139269 ..... 14 p2146 N84-23859 #
AD-A139270 ..... 14 p2213 N84-24290 #
AD-A139271 ..... 14 p2134 N84-23789 #
AD-A139272 ..... 14 p2224 N84-24349 #
AD-A139275 ..... 14 p2150 N84-23883 #
AD-A139279 ..... 14 p2242 N84-24460 #
AD-A139284 ..... 15 p2380 N84-25281 #
AD-A139285 ..... 14 p2151 N84-23884 #
AD-A139286 ..... 14 p2228 N84-24362 #
AD-A139287 ..... 15 p2428 N84-25586 #
AD-A139288 ..... 14 p2222 N84-24333 #
AD-A139290 ..... 14 p2127 N84-23754 #
AD-A139292 ..... 15 p2380 N84-25282 #
AD-A139293 ..... 14 p2134 N84-23790 #
AD-A139294 ..... 14 p2158 N84-23926 #
AD-A139296 ..... 15 p2380 N84-25283 #
AD-A139297 ..... 14 p2250 N84-24513 #
AD-A139298 ..... 14 p2224 N84-24350 #
AD-A139299 ..... 14 p2218 N84-24310 #
AD-A139300 ..... 14 p2120 N84-23705 #
AD-A139301 ..... 14 p2213 N84-24291 #
AD-A139302 ..... 14 p2211 N84-24277 #
AD-A139305 ..... 14 p2203 N84-24220 #
AD-A139306 ..... 14 p2205 N84-24234 #
AD-A139307 ..... 14 p2211 N84-24278 #
AD-A139308 ..... 14 p2169 N84-23994 #
AD-A139309 ..... 14 p2218 N84-24311 #
AD-A139310 ..... 14 p2213 N84-24292 #
AD-A139311 ..... 14 p2145 N84-23855 #
AD-A139312 ..... 14 p2213 N84-24293 #
AD-A139313 ..... 14 p2218 N84-24312 #
AD-A139314 ..... 14 p2213 N84-24294 #
AD-A139315 ..... 14 p2214 N84-24295 #
AD-A139316 ..... 14 p2205 N84-24235 #
AD-A139317 ..... 14 p2176 N84-24034 #
AD-A139318 ..... 15 p2407 N84-25448
AD-A139321 ..... 14 p2142 N84-23843 #
AD-A139323 ..... 15 p2380 N84-25284 #
AD-A139324 ..... 11 p1696 N84-21062 #
AD-A139328 ..... 15 p2416 N84-25508 #
AD-A139332 ..... 14 p2219 N84-24315 #
AD-A139333 ..... 14 p2214 N84-24296 #
AD-A139338 ..... 15 p2383 N84-25294 #
AD-A139339 ..... 14 p2247 N84-24497 #
AD-A139342 ..... 15 p2379 N84-25276
AD-A139347 ..... 14 p2205 N84-24236 #
AD-A139348 ..... 14 p2242 N84-24461 #
AD-A139350 ..... 14 p2127 N84-23755 #
AD-A139352 ..... 14 p2132 N84-23778 #
AD-A139354 ..... 14 p2105 N84-23624 #
AD-A139355 ..... 15 p2396 N84-25373
AD-A139357 ..... 14 p2120 N84-23706 #
AD-A139358 ..... 14 p2134 N84-23791 #
AD-A139359 ..... 14 p2128 N84-23756 #
AD-A139360 ..... 14 p2219 N84-24316 #
AD-A139361 ..... 15 p2318 N84-24916
AD-A139363 ..... 14 p2245 N84-24483 #
AD-A139366 ..... 14 p2245 N84-24484 #
AD-A139369 ..... 14 p2222 N84-24334 #
AD-A139375 ..... 14 p2242 N84-24462 #
AD-A139378 ..... 14 p2203 N84-24221 #
AD-A139381 ..... 14 p2184 N84-24089 #
AD-A139385 ..... 14 p2247 N84-24498 #
AD-A139386 ..... 14 p2242 N84-24463 #
AD-A139387 ..... 14 p2222 N84-24335 #
AD-A139390 ..... 14 p2225 N84-24351* #
AD-A139392 ..... 14 p2111 N84-23656 #
AD-A139393 ..... 14 p2148 N84-23867 #
AD-A139396 ..... 14 p2214 N84-24297 #
AD-A139398 ..... 14 p2156 N84-23917 #
AD-A139399 ..... 14 p2214 N84-24298 #
AD-A139402 ..... 14 p2246 N84-24488 #
AD-A139403 ..... 14 p2245 N84-24485 #
AD-A139404 ..... 14 p2246 N84-24486 #
AD-A139406 ..... 14 p2112 N84-23660 #
AD-A139408 ..... 14 p2146 N84-23860 #
AD-A139411 ..... 14 p2134 N84-23792 #
AD-A139412 ..... 14 p2242 N84-24464 #
AD-A139413 ..... 14 p2158 N84-23929 #
AD-A139415 ..... 14 p2229 N84-24363 #
AD-A139416 ..... 14 p2103 N84-23614 #
AD-A139417 ..... 14 p2122 N84-23720 #
AD-A139420 ..... 14 p2185 N84-24090 #
AD-A139421 ..... 14 p2183 N84-24079 #
AD-A139430 ..... 14 p2246 N84-24489 #
AD-A139432 ..... 14 p2106 N84-23628 #
AD-A139435 ..... 14 p2103 N84-23615 #
AD-A139440 ..... 14 p2176 N84-24035 #

AD-A139441 ..... 14 p2130 N84-23768 #
AD-A139447 ..... 14 p2248 N84-24499 #
AD-A139448 ..... 14 p2151 N84-23885 #
AD-A139453 ..... 14 p2118 N84-23692 #
AD-A139457 ..... 14 p2172 N84-24009 #
AD-A139458 ..... 14 p2222 N84-24336 #
AD-A139463 ..... 14 p2229 N84-24364 #
AD-A139471 ..... 14 p2220 N84-24320 #
AD-A139472 ..... 14 p2146 N84-23861 #
AD-A139474 ..... 14 p2140 N84-23831 #
AD-A139477 ..... 14 p2214 N84-24299 #
AD-A139478 ..... 14 p2103 N84-23616 #
AD-A139479 ..... 14 p2123 N84-23721 #
AD-A139482 ..... 14 p2156 N84-23918 #
AD-A139484 ..... 14 p2156 N84-23919 #
AD-A139485 ..... 14 p2132 N84-23779 #
AD-A139489 ..... 14 p2185 N84-24091 #
AD-A139490 ..... 15 p2378 N84-25273 #
AD-A139497 ..... 14 p2219 N84-24317 #
AD-A139498 ..... 14 p2185 N84-24092 #
AD-A139499 ..... 07 p0945 N84-16132 #
AD-A139501 ..... 07 p0973 N84-16307 #
AD-A139502 ..... 14 p2140 N84-23832 #
AD-A139505 ..... 14 p2123 N84-23722 #
AD-A139507 ..... 15 p2378 N84-25274 #
AD-A139510 ..... 14 p2206 N84-24237 #
AD-A139512 ..... 14 p2140 N84-23833 #
AD-A139514 ..... 10 p1427 N84-19331 #
AD-A139529 ..... 08 p1150 N84-17482 #
AD-A139530 ..... 14 p2158 N84-23930 #
AD-A139531 ..... 14 p2141 N84-23834 #
AD-A139532 ..... 14 p2188 N84-24107 #
AD-A139533 ..... 07 p1059 N84-16860 #
AD-A139534 ..... 14 p2219 N84-24313 #
AD-A139539 ..... 14 p2123 N84-23723 #
AD-A139549 ..... 08 p1136 N84-17367 #
AD-A139550 ..... 07 p1000 N84-16487 #
AD-A139552 ..... 14 p2158 N84-23931 #
AD-A139560 ..... 14 p2203 N84-24222 #
AD-A139565 ..... 14 p2141 N84-23835 #
AD-A139566 ..... 14 p2111 N84-23657 #
AD-A139569 ..... 14 p2123 N84-23724 #
AD-A139570 ..... 14 p2148 N84-23868 #
AD-A139579 ..... 14 p2141 N84-23836 #
AD-A139581 ..... 14 p2146 N84-23862 #
AD-A139582 ..... 14 p2173 N84-24018 #
AD-A139587 ..... 14 p2210 N84-24263 #
AD-A139588 ..... 14 p2209 N84-24260 #
AD-A139589 ..... 14 p2214 N84-24300 #
AD-A139590 ..... 14 p2225 N84-24352 #
AD-A139591 ..... 14 p2101 N84-23611 #
AD-A139592 ..... 14 p2243 N84-24465 #
AD-A139593 ..... 14 p2151 N84-23886 #
AD-A139594 ..... 14 p2206 N84-24238 #
AD-A139595 ..... 14 p2229 N84-24365 #
AD-A139596 ..... 14 p2142 N84-23844 #
AD-A139598 ..... 14 p2128 N84-23757 #
AD-A139600 ..... 14 p2209 N84-24261 #
AD-A139602 ..... 15 p2373 N84-25234 #
AD-A139603 ..... 15 p2397 N84-25382 #
AD-A139604 ..... 15 p2391 N84-25350 #
AD-A139607 ..... 08 p1161 N84-17557 #
AD-A139616 ..... 15 p2332 N84-25007 #
AD-A139619 ..... 15 p2368 N84-25209 #
AD-A139622 ..... 15 p2350 N84-25107 #
AD-A139624 ..... 11 p1761 N84-21491 #
AD-A139626 ..... 15 p2391 N84-25351 #
AD-A139628 ..... 15 p2410 N84-25465 #
AD-A139629 ..... 15 p2303 N84-24821 #
AD-A139630 ..... 17 p2758 N84-27506 #
AD-A139633 ..... 15 p2413 N84-25483 #
AD-A139635 ..... 15 p2339 N84-25040 #
AD-A139640 ..... 15 p2400 N84-25400 #
AD-A139645 ..... 15 p2343 N84-25066 #
AD-A139654 ..... 13 p1941 N84-22619 #
AD-A139655 ..... 15 p2297 N84-24784 #
AD-A139656 ..... 12 p1824 N84-21889 #
AD-A139676 ..... 15 p2328 N84-24979 #
AD-A139677 ..... 15 p2328 N84-24980 #
AD-A139678 ..... 15 p2328 N84-24981 #
AD-A139687 ..... 15 p2350 N84-25108 #
AD-A139707 ..... 13 p2000 N84-22976 #
AD-A139708 ..... 15 p2382 N84-25286 #
AD-A139719 ..... 15 p2420 N84-25535 #
AD-A139721 ..... 08 p1139 N84-17408 #
AD-A139722 ..... 15 p2405 N84-25435 #
AD-A139723 ..... 15 p2350 N84-25109 #
AD-A139724 ..... 15 p2410 N84-25466 #
AD-A139726 ..... 15 p2264 N84-24597 #
AD-A139738 ..... 15 p2329 N84-24982 #
AD-A139741 ..... 15 p2404 N84-25428 #
AD-A139743 ..... 15 p2257 N84-24557 #
AD-A139744 ..... 15 p2418 N84-25517 #
AD-A139746 ..... 15 p2382 N84-25287 #
AD-A139747 ..... 15 p2384 N84-25298 #
AD-A139752 ..... 15 p2297 N84-24785 #
AD-A139757 ..... 15 p2329 N84-24983 #
AD-A139758 ..... 15 p2413 N84-25484 #
AD-A139759 ..... 15 p2384 N84-25299 #
AD-A139760 ..... 15 p2302 N84-24813 #
AD-A139769 ..... 15 p2332 N84-25008 #
AD-A139771 ..... 15 p2329 N84-24984 #
AD-A139772 ..... 15 p2418 N84-25518 #
AD-A139774 ..... 15 p2333 N84-25009 #
AD-A139778 ..... 16 p2484 N84-25932 #
AD-A139782 ..... 15 p2382 N84-25288 #
AD-A139783 ..... 15 p2260 N84-24576 #
AD-A139786 ..... 15 p2373 N84-25235 #
AD-A139791 ..... 15 p2304 N84-24822 #
AD-A139797 ..... 15 p2383 N84-25289 #
AD-A139798 ..... 15 p2391 N84-25352 #
AD-A139799 ..... 15 p2263 N84-24592 #
AD-A139805 ..... 15 p2336 N84-25024 #
AD-A139807 ..... 15 p2258 N84-24584 #
AD-A139808 ..... 15 p2343 N84-25067 #
AD-A139810 ..... 15 p2321 N84-24934 #
AD-A139813 ..... 15 p2270 N84-24629 #
AD-A139818 ..... 15 p2287 N84-24719 #
AD-A139819 ..... 15 p2270 N84-24630 #
AD-A139820 ..... 15 p2329 N84-24985 #
AD-A139822 ..... 16 p2477 N84-25877 #
AD-A139824 ..... 15 p2317 N84-24906 #
AD-A139825 ..... 15 p2392 N84-25353 #
AD-A139826 ..... 15 p2384 N84-25300 #
AD-A139834 ..... 15 p2413 N84-25485 #
AD-A139836 ..... 15 p2257 N84-24558 #
AD-A139840 ..... 15 p2392 N84-25354 #
AD-A139841 ..... 15 p2397 N84-25383 #
AD-A139842 ..... 15 p2363 N84-25176 #
AD-A139844 ..... 15 p2388 N84-25327 #
AD-A139845 ..... 15 p2416 N84-25505 #
AD-A139847 ..... 15 p2397 N84-25384 #
AD-A139849 ..... 15 p2383 N84-25290 #
AD-A139852 ..... 15 p2400 N84-25404 #
AD-A139853 ..... 15 p2350 N84-25110 #
AD-A139860 ..... 15 p2392 N84-25355 #
AD-A139862 ..... 15 p2280 N84-24696 #
AD-A139865 ..... 15 p2317 N84-24907 #
AD-A139866 ..... 15 p2321 N84-24935 #
AD-A139869 ..... 15 p2407 N84-25452 #
AD-A139870 ..... 15 p2373 N84-25236 #
AD-A139871 ..... 15 p2259 N84-24568 #
AD-A139873 ..... 15 p2302 N84-24814 #
AD-A139874 ..... 15 p2336 N84-25025 #
AD-A139881 ..... 15 p2383 N84-25291 #
AD-A139883 ..... 15 p2317 N84-24908 #
AD-A139889 ..... 15 p2398 N84-25385 #
AD-A139890 ..... 15 p2373 N84-25237 #
AD-A139892 ..... 15 p2371 N84-25227 #
AD-A139893 ..... 15 p2297 N84-24786 #
AD-A139894 ..... 15 p2373 N84-25238 #
AD-A139895 ..... 15 p2410 N84-25467 #
AD-A139896 ..... 15 p2321 N84-24936 #
AD-A139897 ..... 15 p2336 N84-25026 #
AD-A139899 ..... 15 p2336 N84-25027 #
AD-A139901 ..... 15 p2404 N84-25429 #
AD-A139902 ..... 15 p2413 N84-25486 #
AD-A139903 ..... 15 p2284 N84-24709 #
AD-A139904 ..... 15 p2372 N84-25228 #
AD-A139906 ..... 15 p2404 N84-25430 #
AD-A139907 ..... 15 p2287 N84-24720 #
AD-A139910 ..... 15 p2281 N84-24701 #
AD-A139912 ..... 15 p2398 N84-25386 #
AD-A139918 ..... 15 p2392 N84-25356 #
AD-A139921 ..... 15 p2379 N84-25278 #
AD-A139924 ..... 15 p2321 N84-24937 #
AD-A139927 ..... 15 p2379 N84-25279 #
AD-A139928 ..... 15 p2258 N84-24585 #
AD-A139929 ..... 15 p2398 N84-25387 #
AD-A139930 ..... 15 p2329 N84-24986 #
AD-A139931 ..... 15 p2281 N84-24702 #
AD-A139933 ..... 15 p2257 N84-24559 #
AD-A139936 ..... 15 p2254 N84-24536 #
AD-A139939 ..... 15 p2398 N84-25388 #
AD-A139941 ..... 15 p2297 N84-24787 #
AD-A139942 ..... 15 p2285 N84-24714 #
AD-A139944 ..... 15 p2373 N84-25239 #
AD-A139946 ..... 15 p2408 N84-25453 #
AD-A139947 ..... 15 p2373 N84-25240 #
AD-A139950 ..... 15 p2297 N84-24788 #
AD-A139952 ..... 20 p3159 N84-30063 #
AD-A139953 ..... 15 p2343 N84-25068 #
AD-A139957 ..... 15 p2304 N84-24823 #
AD-A139958 ..... 15 p2287 N84-24721 #
AD-A139959 ..... 15 p2329 N84-24987 #
AD-A139961 ..... 15 p2304 N84-24824 #
AD-A139963 ..... 15 p2330 N84-24988 #
AD-A139965 ..... 15 p2337 N84-25028 #
AD-A139970 ..... 15 p2400 N84-25401 #
AD-A139974 ..... 15 p2317 N84-24909 #
AD-A139975 ..... 15 p2297 N84-24789 #
AD-A139976 ..... 15 p2264 N84-24598 #

AD-A139978 ..... 15 p2396 N84-25370 #
AD-A139983 ..... 15 p2388 N84-25328 #
AD-A139984 ..... 15 p2398 N84-25389 #
AD-A139985 ..... 15 p2413 N84-25487 #
AD-A139988 ..... 15 p2383 N84-25292 #
AD-A139989 ..... 15 p2257 N84-24560 #
AD-A139991 ..... 15 p2392 N84-25357 #
AD-A139996 ..... 15 p2392 N84-25358 #
AD-A139997 ..... 15 p2398 N84-25390 #
AD-A139998 ..... 15 p2285 N84-24715 #
AD-A139999 ..... 15 p2383 N84-25293 #
AD-A140002 ..... 15 p2333 N84-25010 #
AD-A140004 ..... 15 p2339 N84-25041 #
AD-A140005 ..... 15 p2418 N84-25519 #
AD-A140006 ..... 15 p2287 N84-24722 #
AD-A140008 ..... 15 p2258 N84-24561 #
AD-A140011 ..... 15 p2385 N84-25301 #
AD-A140012 ..... 15 p2368 N84-25210 #
AD-A140014 ..... 15 p2396 N84-25371 #
AD-A140019 ..... 15 p2408 N84-25454 #
AD-A140020 ..... 15 p2302 N84-24615 #
AD-A140021 ..... 15 p2374 N84-25241 #
AD-A140023 ..... 15 p2379 N84-25280 #
AD-A140024 ..... 15 p2283 N84-24706 #
AD-A140025 ..... 15 p2282 N84-24703 #
AD-A140026 ..... 15 p2282 N84-24704 #
AD-A140027 ..... 15 p2413 N84-25488 #
AD-A140030 ..... 15 p2374 N84-25242 #
AD-A140033 ..... 15 p2410 N84-25468 #
AD-A140036 ..... 15 p2285 N84-24599 #
AD-A140037 ..... 15 p2385 N84-25302 #
AD-A140038 ..... 15 p2385 N84-25303 #
AD-A140039 ..... 15 p2416 N84-25506 #
AD-A140040 ..... 19 p2998 N84-28996 #
AD-A140041 ..... 15 p2280 N84-24697 #
AD-A140043 ..... 15 p2283 N84-24707 #
AD-A140047 ..... 15 p2398 N84-25391 #
AD-A140052 ..... 15 p2413 N84-25489 #
AD-A140057 ..... 15 p2298 N84-24790 #
AD-A140059 ..... 15 p2416 N84-25507 #
AD-A140069 ..... 15 p2398 N84-25392 #
AD-A140070 ..... 15 p2287 N84-24723 #
AD-A140077 ..... 15 p2282 N84-24705 #
AD-A140081 ..... 15 p2408 N84-25455 #
AD-A140083 ..... 15 p2302 N84-24816 #
AD-A140084 ..... 15 p2337 N84-25029 #
AD-A140085 ..... 15 p2330 N84-24989 #
AD-A140092 ..... 15 p2321 N84-24938 #
AD-A140094 ..... 16 p2553 N84-26380 #
AD-A140095 ..... 15 p2270 N84-24631 #
AD-A140096 ..... 15 p2399 N84-25393* #
AD-A140097 ..... 15 p2399 N84-25394 #
AD-A140103 ..... 15 p2280 N84-24698 #
AD-A140109 ..... 15 p2322 N84-24939 #
AD-A140112 ..... 15 p2354 N84-25127 #
AD-A140117 ..... 15 p2393 N84-25359 #
AD-A140120 ..... 15 p2418 N84-25520 #
AD-A140127 ..... 15 p2389 N84-25329 #
AD-A140140 ..... 16 p2455 N84-25742 #
AD-A140143 ..... 16 p2451 N84-25719 #
AD-A140146 ..... 16 p2519 N84-26169 #
AD-A140148 ..... 16 p2560 N84-26424 #
AD-A140150 ..... 16 p2542 N84-26316 #
AD-A140157 ..... 17 p2662 N84-26985 #
AD-A140160 ..... 16 p2497 N84-26023 #
AD-A140161 ..... 11 p1750 N84-21425 #
AD-A140164 ..... 16 p2557 N84-26404 #
AD-A140166 ..... 16 p2483 N84-25919 #
AD-A140167 ..... 16 p2434 N84-25610 #
AD-A140168 ..... 16 p2496 N84-26016 #
AD-A140170 ..... 16 p2484 N84-25933 #
AD-A140173 ..... 16 p2558 N84-26412 #
AD-A140174 ..... 16 p2483 N84-25920 #
AD-A140175 ..... 16 p2525 N84-26215* #
AD-A140179 ..... 16 p2551 N84-26367 #
AD-A140180 ..... 16 p2549 N84-26362 #
AD-A140181 ..... 16 p2434 N84-25611 #
AD-A140184 ..... 16 p2471 N84-25838 #
AD-A140185 ..... 16 p2510 N84-26106 #
AD-A140188 ..... 16 p2456 N84-25750 #
AD-A140194 ..... 16 p2466 N84-25806 #
AD-A140195 ..... 16 p2532 N84-26257 #
AD-A140196 ..... 16 p2553 N84-26378 #
AD-A140197 ..... 16 p2510 N84-26107 #
AD-A140198 ..... 16 p2510 N84-26108 #
AD-A140204 ..... 16 p2446 N84-25687 #
AD-A140205 ..... 16 p2471 N84-25839 #
AD-A140208 ..... 16 p2580 N84-26546 #
AD-A140209 ..... 16 p2555 N84-26394 #
AD-A140211 ..... 16 p2510 N84-26109 #
AD-A140212 ..... 16 p2549 N84-26363 #
AD-A140215 ..... 16 p2510 N84-26110 #
AD-A140221 ..... 17 p2679 N84-27067 #
AD-A140224 ..... 16 p2499 N84-26031 #
AD-A140225 ..... 17 p2629 N84-26819 #
AD-A140227 ..... 16 p2471 N84-25840* #
AD-A140228 ..... 16 p2510 N84-26111 #
AD-A140229 ..... 16 p2558 N84-26413* #
AD-A140230 ..... 16 p2511 N84-26112 #
AD-A140233 ..... 16 p2463 N84-25785 #
AD-A140242 ..... 16 p2530 N84-26242 #
AD-A140243 ..... 16 p2530 N84-26243 #
AD-A140244 ..... 16 p2530 N84-26244 #
AD-A140245 ..... 16 p2530 N84-26245 #
AD-A140246 ..... 16 p2530 N84-26246 #
AD-A140247 ..... 16 p2531 N84-26247 #
AD-A140248 ..... 16 p2531 N84-26248 #
AD-A140249 ..... 16 p2531 N84-26249 #
AD-A140250 ..... 16 p2531 N84-26250 #
AD-A140252 ..... 16 p2446 N84-25688 #
AD-A140256 ..... 16 p2546 N84-26341 #
AD-A140260 ..... 16 p2472 N84-25841 #
AD-A140261 ..... 16 p2461 N84-25774 #
AD-A140263 ..... 16 p2469 N84-25822 #
AD-A140265 ..... 16 p2469 N84-25823 #
AD-A140266 ..... 16 p2551 N84-26368 #
AD-A140268 ..... 16 p2502 N84-26059 #
AD-A140273 ..... 16 p2544 N84-26334 #
AD-A140276 ..... 16 p2546 N84-26342 #
AD-A140280 ..... 16 p2454 N84-25738 #
AD-A140283 ..... 16 p2474 N84-25857 #
AD-A140288 ..... 16 p2538 N84-26293 #
AD-A140292 ..... 16 p2457 N84-25754 #
AD-A140294 ..... 16 p2556 N84-26399 #
AD-A140295 ..... 16 p2546 N84-26343 #
AD-A140296 ..... 16 p2472 N84-25842 #
AD-A140297 ..... 16 p2472 N84-25843 #
AD-A140298 ..... 16 p2496 N84-26017 #
AD-A140299 ..... 16 p2484 N84-25934 #
AD-A140302 ..... 16 p2545 N84-26335 #
AD-A140304 ..... 16 p2477 N84-25878 #
AD-A140309 ..... 16 p2567 N84-26471 #
AD-A140311 ..... 16 p2535 N84-26277 #
AD-A140320 ..... 16 p2538 N84-26294 #
AD-A140321 ..... 16 p2442 N84-25668 #
AD-A140325 ..... 16 p2469 N84-25824 #
AD-A140328 ..... 16 p2555 N84-26395 #
AD-A140329 ..... 16 p2511 N84-26113 #
AD-A140330 ..... 16 p2534 N84-26268 #
AD-A140334 ..... 16 p2538 N84-26295 #
AD-A140336 ..... 16 p2477 N84-25879 #
AD-A140337 ..... 16 p2460 N84-25765 #
AD-A140341 ..... 16 p2472 N84-25844 #
AD-A140342 ..... 16 p2474 N84-25858 #
AD-A140343 ..... 16 p2539 N84-26302 #
AD-A140347 ..... 16 p2565 N84-26457 #
AD-A140358 ..... 16 p2445 N84-25682 #
AD-A140362 ..... 16 p2497 N84-26024 #
AD-A140363 ..... 16 p2485 N84-25935 #
AD-A140368 ..... 16 p2446 N84-25689 #
AD-A140369 ..... 16 p2456 N84-25751 #
AD-A140373 ..... 16 p2565 N84-26458 #
AD-A140378 ..... 16 p2493 N84-25993 #
AD-A140381 ..... 16 p2502 N84-26060 #
AD-A140383 ..... 16 p2556 N84-26396 #
AD-A140387 ..... 16 p2567 N84-26472 #
AD-A140391 ..... 16 p2540 N84-26303 #
AD-A140408 ..... 16 p2560 N84-26425 #
AD-A140409 ..... 16 p2445 N84-25683 #
AD-A140417 ..... 16 p2550 N84-26364 #
AD-A140418 ..... 16 p2551 N84-26369 #
AD-A140426 ..... 16 p2463 N84-25786 #
AD-A140427 ..... 17 p2671 N84-27026 #
AD-A140428 ..... 16 p2502 N84-26061 #
AD-A140429 ..... 16 p2547 N84-26344 #
AD-A140434 ..... 16 p2485 N84-25936 #
AD-A140435 ..... 16 p2446 N84-25690 #
AD-A140436 ..... 16 p2565 N84-26459 #
AD-A140438 ..... 16 p2538 N84-26296 #
AD-A140451 ..... 16 p2472 N84-25845 #
AD-A140452 ..... 16 p2545 N84-26336 #
AD-A140464 ..... 16 p2536 N84-26278 #
AD-A140465 ..... 16 p2434 N84-25612 #
AD-A140468 ..... 16 p2551 N84-26370 #
AD-A140469 ..... 16 p2538 N84-26297 #
AD-A140470 ..... 16 p2526 N84-26216 #
AD-A140473 ..... 16 p2565 N84-26460 #
AD-A140478 ..... 16 p2493 N84-25994 #
AD-A140480 ..... 16 p2556 N84-26397 #
AD-A140483 ..... 16 p2493 N84-25995 #
AD-A140486 ..... 16 p2560 N84-26426 #
AD-A140487 ..... 16 p2502 N84-26062 #
AD-A140491 ..... 16 p2503 N84-26063 #
AD-A140496 ..... 16 p2547 N84-26345 #
AD-A140497 ..... 16 p2567 N84-26473 #
AD-A140498 ..... 16 p2499 N84-26032 #
AD-A140502 ..... 16 p2531 N84-26251 #
AD-A140507 ..... 16 p2526 N84-26217 #
AD-A140508 ..... 16 p2526 N84-26218 #
AD-A140509 ..... 16 p2526 N84-26219 #
AD-A140510 ..... 16 p2477 N84-25880 #
AD-A140512 ..... 16 p2550 N84-26365 #

AD-A140513 ..... 16 p2499 N84-26033 #
AD-A140517 ..... 16 p2493 N84-25996 #
AD-A140520 ..... 16 p2461 N84-25775 #
AD-A140523 ..... 16 p2555 N84-26390 #
AD-A140527 ..... 16 p2493 N84-25997 #
AD-A140528 ..... 16 p2557 N84-26405 #
AD-A140529 ..... 16 p2469 N84-25825 #
AD-A140543 ..... 16 p2458 N84-25761 #
AD-A140549 ..... 16 p2558 N84-26414 #
AD-A140550 ..... 16 p2503 N84-26064 #
AD-A140556 ..... 17 p2770 N84-27585 #
AD-A140558 ..... 17 p2653 N84-26966 #
AD-A140559 ..... 17 p2680 N84-27068 #
AD-A140560 ..... 17 p2667 N84-27009 #
AD-A140562 ..... 17 p2765 N84-27561 #
AD-A140565 ..... 17 p2604 N84-26686 #
AD-A140566 ..... 17 p2605 N84-26687 #
AD-A140567 ..... 17 p2605 N84-26688 #
AD-A140568 ..... 17 p2672 N84-27028 #
AD-A140569 ..... 17 p2767 N84-27572 #
AD-A140573 ..... 17 p2752 N84-27468 #
AD-A140574 ..... 17 p2773 N84-27606 #
AD-A140580 ..... 17 p2746 N84-27436 #
AD-A140581 ..... 17 p2770 N84-27586 #
AD-A140582 ..... 17 p2767 N84-27573 #
AD-A140583 ..... 17 p2745 N84-27430 #
AD-A140584 ..... 17 p2721 N84-27320 #
AD-A140586 ..... 17 p2727 N84-27358* #
AD-A140588 ..... 17 p2683 N84-26986 #
AD-A140589 ..... 17 p2721 N84-27321 #
AD-A140595 ..... 17 p2727 N84-27359 #
AD-A140596 ..... 17 p2653 N84-26967 #
AD-A140599 ..... 17 p2758 N84-27507 #
AD-A140601 ..... 17 p2588 N84-26587 #
AD-A140606 ..... 17 p2598 N84-26650 #
AD-A140607 ..... 17 p2745 N84-27431 #
AD-A140608 ..... 17 p2680 N84-27069 #
AD-A140609 ..... 17 p2653 N84-26968 #
AD-A140610 ..... 17 p2626 N84-26804 #
AD-A140611 ..... 17 p2762 N84-27542 #
AD-A140612 ..... 17 p2609 N84-26703 #
AD-A140615 ..... 17 p2727 N84-27360 #
AD-A140619 ..... 17 p2752 N84-27469 #
AD-A140620 ..... 17 p2763 N84-27548 #
AD-A140623 ..... 17 p2768 N84-27574 #
AD-A140627 ..... 17 p2770 N84-27587 #
AD-A140628 ..... 17 p2752 N84-27470 #
AD-A140633 ..... 17 p2623 N84-26788 #
AD-A140634 ..... 17 p2748 N84-27443 #
AD-A140635 ..... 17 p2724 N84-27337 #
AD-A140638 ..... 17 p2758 N84-27508 #
AD-A140640 ..... 17 p2748 N84-27444 #
AD-A140643 ..... 17 p2607 N84-26699 #
AD-A140645 ..... 17 p2606 N84-26694 #
AD-A140649 ..... 17 p2668 N84-27010 #
AD-A140650 ..... 17 p2723 N84-27330 #
AD-A140652 ..... 17 p2758 N84-27509 #
AD-A140655 ..... 17 p2724 N84-27338 #
AD-A140656 ..... 17 p2763 N84-27549 #
AD-A140657 ..... 17 p2610 N84-26709 #
AD-A140658 ..... 17 p2668 N84-27011 #
AD-A140659 ..... 17 p2623 N84-26789 #
AD-A140660 ..... 17 p2753 N84-27471 #
AD-A140665 ..... 17 p2764 N84-27556 #
AD-A140679 ..... 17 p2758 N84-27510 #
AD-A140681 ..... 17 p2757 N84-27500 #
AD-A140683 ..... 17 p2768 N84-27575 #
AD-A140684 ..... 17 p2760 N84-27525 #
AD-A140685 ..... 17 p2737 N84-27388 #
AD-A140687 ..... 17 p2737 N84-27389 #
AD-A140688 ..... 17 p2766 N84-27566 #
AD-A140689 ..... 17 p2623 N84-26790 #
AD-A140696 ..... 17 p2668 N84-27012 #
AD-A140697 ..... 17 p2623 N84-26791 #
AD-A140701 ..... 17 p2589 N84-26596 #
AD-A140709 ..... 17 p2753 N84-27472 #
AD-A140710 ..... 17 p2605 N84-26689 #
AD-A140711 ..... 17 p2683 N84-26987 #
AD-A140712 ..... 17 p2619 N84-26759 #
AD-A140713 ..... 17 p2624 N84-26792 #
AD-A140714 ..... 17 p2626 N84-26805 #
AD-A140716 ..... 17 p2653 N84-26969 #
AD-A140718 ..... 17 p2624 N84-26793 #
AD-A140728 ..... 17 p2605 N84-26690 #
AD-A140730 ..... 17 p2734 N84-27377 #
AD-A140736 ..... 17 p2619 N84-26760 #
AD-A140738 ..... 17 p2619 N84-26761 #
AD-A140740 ..... 17 p2734 N84-27378 #
AD-A140741 ..... 17 p2624 N84-26794 #
AD-A140743 ..... 17 p2680 N84-27070 #
AD-A140744 ..... 17 p2768 N84-27576 #
AD-A140745 ..... 17 p2760 N84-27526 #
AD-A140751 ..... 17 p2770 N84-27588 #
AD-A140753 ..... 17 p2668 N84-27013 #
AD-A140754 ..... 17 p2683 N84-26988 #
AD-A140755 ..... 17 p2653 N84-26970 #
AD-A140757 ..... 17 p2764 N84-27557 #
AD-A140758 ..... 17 p2753 N84-27473 #
AD-A140759 ..... 17 p2724 N84-27339 #
AD-A140762 ..... 17 p2723 N84-27331 #
AD-A140763 ..... 17 p2746 N84-27437 #
AD-A140765 ..... 17 p2606 N84-26695 #
AD-A140767 ..... 17 p2628 N84-26814 #
AD-A140770 ..... 17 p2626 N84-26806 #
AD-A140772 ..... 17 p2765 N84-27558 #
AD-A140773 ..... 17 p2653 N84-26971 #
AD-A140775 ..... 17 p2726 N84-27361 #
AD-A140776 ..... 17 p2747 N84-27438 #
AD-A140777 ..... 17 p2758 N84-27511 #
AD-A140778 ..... 17 p2758 N84-27512 #
AD-A140779 ..... 17 p2758 N84-27513 #
AD-A140780 ..... 17 p2749 N84-27451 #
AD-A140781 ..... 17 p2609 N84-26704 #
AD-A140782 ..... 17 p2598 N84-26651 #
AD-A140783 ..... 17 p2624 N84-26795 #
AD-A140793 ..... 17 p2605 N84-26691 #
AD-A140794 ..... 17 p2781 N84-27655* #
AD-A140795 ..... 17 p2627 N84-26807 #
AD-A140796 ..... 17 p2603 N84-26681 #
AD-A140797 ..... 11 p1604 N84-20503 #
AD-A140798 ..... 17 p2654 N84-26972 #
AD-A140799 ..... 17 p2734 N84-27379 #
AD-A140800 ..... 17 p2683 N84-26989 #
AD-A140801 ..... 17 p2619 N84-26762 #
AD-A140803 ..... 17 p2601 N84-26670 #
AD-A140804 ..... 17 p2668 N84-27014 #
AD-A140805 ..... 17 p2768 N84-27577 #
AD-A140808 ..... 17 p2740 N84-27396 #
AD-A140809 ..... 17 p2728 N84-27362* #
AD-A140811 ..... 17 p2753 N84-27474 #
AD-A140812 ..... 17 p2624 N84-26796 #
AD-A140814 ..... 17 p2683 N84-26990 #
AD-A140815 ..... 17 p2611 N84-26710 #
AD-A140817 ..... 17 p2683 N84-26991 #
AD-A140818 ..... 17 p2753 N84-27475 #
AD-A140819 ..... 17 p2683 N84-26992 #
AD-A140820 ..... 17 p2773 N84-27607 #
AD-A140823 ..... 17 p2619 N84-26763 #
AD-A140824 ..... 17 p2620 N84-26764 #
AD-A140825 ..... 17 p2654 N84-26973* #
AD-A140826 ..... 17 p2770 N84-27589 #
AD-A140828 ..... 17 p2747 N84-27439 #
AD-A140829 ..... 17 p2760 N84-27527 #
AD-A140831 ..... 17 p2629 N84-26820 #
AD-A140832 ..... 17 p2624 N84-26797 #
AD-A140833 ..... 17 p2747 N84-27440 #
AD-A140835 ..... 17 p2773 N84-27608 #
AD-A140836 ..... 17 p2773 N84-27609 #
AD-A140837 ..... 17 p2773 N84-27610 #
AD-A140838 ..... 17 p2618 N84-26757 #
AD-A140840 ..... 17 p2737 N84-27390 #
AD-A140841 ..... 17 p2614 N84-26734 #
AD-A140842 ..... 17 p2748 N84-27445 #
AD-A140843 ..... 17 p2760 N84-27528 #
AD-A140844 ..... 17 p2745 N84-27432 #
AD-A140845 ..... 17 p2768 N84-27578 #
AD-A140847 ..... 17 p2668 N84-27015 #
AD-A140848 ..... 17 p2759 N84-27514 #
AD-A140850 ..... 17 p2603 N84-26682 #
AD-A140851 ..... 17 p2753 N84-27476 #
AD-A140852 ..... 17 p2750 N84-27452 #
AD-A140853 ..... 17 p2673 N84-27034 #
AD-A140854 ..... 17 p2770 N84-27590 #
AD-A140862 ..... 17 p2748 N84-27446 #
AD-A140864 ..... 17 p2770 N84-27591 #
AD-A140866 ..... 12 p1796 N84-21717 #
AD-A140869 ..... 17 p2763 N84-27550 #
AD-A140870 ..... 17 p2611 N84-26711 #
AD-A140871 ..... 17 p2611 N84-26712 #
AD-A140874 ..... 17 p2750 N84-27453 #
AD-A140875 ..... 17 p2768 N84-27579 #
AD-A140876 ..... 17 p2607 N84-26700 #
AD-A140877 ..... 17 p2759 N84-27515 #
AD-A140878 ..... 17 p2721 N84-27322 #
AD-A140880 ..... 17 p2759 N84-27516 #
AD-A140881 ..... 17 p2620 N84-26765 #
AD-A140882 ..... 17 p2606 N84-26696 #
AD-A140884 ..... 17 p2753 N84-27477 #
AD-A140886 ..... 17 p2754 N84-27478 #
AD-A140887 ..... 17 p2627 N84-26808 #
AD-A140889 ..... 17 p2754 N84-27479 #
AD-A140890 ..... 17 p2734 N84-27380 #
AD-A140892 ..... 17 p2772 N84-27600 #
AD-A140894 ..... 17 p2654 N84-26974 #
AD-A140895 ..... 17 p2601 N84-26671 #
AD-A140897 ..... 17 p2680 N84-27071 #
AD-A140898 ..... 17 p2769 N84-27580 #
AD-A140900 ..... 17 p2769 N84-27581 #
AD-A140901 ..... 17 p2771 N84-27592 #
AD-A140902 ..... 17 p2611 N84-26713 #
AD-A140903 ..... 17 p2654 N84-26975 #
AD-A140904 ..... 17 p2759 N84-27517 #

AD-A140907 ..... 17 p2611 N84-26714 #
AD-A140908 ..... 17 p2664 N84-26993 #
AD-A140911 ..... 17 p2759 N84-27518 #
AD-A140912 ..... 17 p2627 N84-26809 #
AD-A140919 ..... 17 p2620 N84-26766 #
AD-A140920 ..... 17 p2680 N84-27072 #
AD-A140923 ..... 17 p2759 N84-27519 #
AD-A140924 ..... 17 p2769 N84-27582 #
AD-A140925 ..... 18 p2879 N84-28280 #
AD-A140927 ..... 18 p2943 N84-28662 #
AD-A140929 ..... 18 p2925 N84-28546 #
AD-A140930 ..... 18 p2943 N84-28663 #
AD-A140931 ..... 18 p2925 N84-28547 #
AD-A140936 ..... 18 p2921 N84-28521 #
AD-A140937 ..... 18 p2818 N84-27891 #
AD-A140938 ..... 18 p2899 N84-28393 #
AD-A140939 ..... 18 p2879 N84-28281 #
AD-A140940 ..... 18 p2925 N84-28548 #
AD-A140942 ..... 18 p2925 N84-28549 #
AD-A140943 ..... 18 p2923 N84-28540 #
AD-A140945 ..... 18 p2924 N84-28541 #
AD-A140946 ..... 18 p2900 N84-28394 #
AD-A140947 ..... 18 p2810 N84-27841 #
AD-A140949 ..... 18 p2914 N84-28481 #
AD-A140952 ..... 18 p2925 N84-28550 #
AD-A140953 ..... 18 p2925 N84-28551 #
AD-A140955 ..... 18 p2925 N84-28552 #
AD-A140956 ..... 18 p2943 N84-28664 #
AD-A140957 ..... 18 p2932 N84-28591 #
AD-A140958 ..... 18 p2797 N84-27751 #
AD-A140960 ..... 18 p2900 N84-28395 #
AD-A140965 ..... 18 p2892 N84-28356 #
AD-A140969 ..... 18 p2914 N84-28482 #
AD-A140971 ..... 18 p2900 N84-28396 #
AD-A140972 ..... 18 p2833 N84-27985 #
AD-A140974 ..... 18 p2811 N84-27842 #
AD-A140979 ..... 18 p2943 N84-28665 #
AD-A140980 ..... 18 p2853 N84-28115 #
AD-A140981 ..... 18 p2789 N84-27703 #
AD-A140982 ..... 18 p2944 N84-28666 #
AD-A140983 ..... 18 p2796 N84-27745 #
AD-A140984 ..... 18 p2845 N84-28068 #
AD-A140986 ..... 18 p2793 N84-27725 #
AD-A140995 ..... 18 p2846 N84-28069 #
AD-A141004 ..... 18 p2833 N84-27986 #
AD-A141005 ..... 18 p2844 N84-28061 #
AD-A141010 ..... 18 p2837 N84-28005 #
AD-A141011 ..... 18 p2879 N84-28282 #
AD-A141012 ..... 18 p2889 N84-28338 #
AD-A141015 ..... 18 p2808 N84-27828 #
AD-A141016 ..... 18 p2833 N84-27987 #
AD-A141017 ..... 18 p2811 N84-27843 #
AD-A141018 ..... 18 p2921 N84-28522 #
AD-A141021 ..... 18 p2798 N84-27752 #
AD-A141023 ..... 18 p2915 N84-28486 #
AD-A141026 ..... 18 p2921 N84-28523 #
AD-A141032 ..... 18 p2940 N84-28649 #
AD-A141033 ..... 18 p2932 N84-28596 #
AD-A141035 ..... 18 p2818 N84-27892 #
AD-A141038 ..... 18 p2846 N84-28070 #
AD-A141040 ..... 18 p2945 N84-28673 #
AD-A141043 ..... 18 p2902 N84-28403 #
AD-A141044 ..... 18 p2808 N84-27826 #
AD-A141045 ..... 18 p2925 N84-28553 #
AD-A141046 ..... 18 p2797 N84-27746 #
AD-A141047 ..... 18 p2892 N84-28357 #
AD-A141048 ..... 18 p2893 N84-28358 #
AD-A141049 ..... 18 p2921 N84-28524 #
AD-A141050 ..... 18 p2834 N84-27988 #
AD-A141051 ..... 19 p3115 N84-29794 #
AD-A141052 ..... 19 p2969 N84-28816 #
AD-A141054 ..... 19 p2987 N84-28929* #
AD-A141058 ..... 19 p3013 N84-29096 #
AD-A141059 ..... 20 p3259 N84-30685 #
AD-A141061 ..... 19 p3004 N84-29037 #
AD-A141062 ..... 19 p3023 N84-29170 #
AD-A141063 ..... 19 p3074 N84-29504 #
AD-A141064 ..... 19 p3074 N84-29505 #
AD-A141067 ..... 19 p2987 N84-28930 #
AD-A141068 ..... 19 p3001 N84-29019 #
AD-A141071 ..... 19 p3065 N84-29443 #
AD-A141072 ..... 19 p3013 N84-29097 #
AD-A141077 ..... 21 p3418 N84-31676 #
AD-A141079 ..... 19 p3074 N84-29506 #
AD-A141083 ..... 19 p3074 N84-29507 #
AD-A141087 ..... 19 p2963 N84-28781 #
AD-A141090 ..... 19 p3104 N84-29718 #
AD-A141091 ..... 19 p3083 N84-29563 #
AD-A141094 ..... 19 p3075 N84-29508 #
AD-A141095 ..... 19 p3053 N84-29377 #
AD-A141096 ..... 19 p3029 N84-29208 #
AD-A141097 ..... 19 p3083 N84-29564 #
AD-A141098 ..... 19 p3004 N84-29038 #
AD-A141099 ..... 19 p3001 N84-29020 #
AD-A141100 ..... 19 p3110 N84-29759 #
AD-A141106 ..... 19 p2960 N84-28762 #
AD-A141107 ..... 19 p2993 N84-28966 #
AD-A141112 ..... 19 p2993 N84-28967 #
AD-A141113 ..... 19 p3110 N84-29760 #
AD-A141115 ..... 19 p2998 N84-28997 #
AD-A141117 ..... 19 p3023 N84-29171 #
AD-A141118 ..... 19 p2964 N84-28786 #
AD-A141120 ..... 19 p3114 N84-29785 #
AD-A141124 ..... 19 p3063 N84-29434 #
AD-A141126 ..... 19 p3083 N84-29565 #
AD-A141127 ..... 19 p3075 N84-29509 #
AD-A141130 ..... 19 p3115 N84-29795 #
AD-A141131 ..... 19 p3095 N84-29657 #
AD-A141132 ..... 19 p3063 N84-29435 #
AD-A141133 ..... 19 p3004 N84-29039 #
AD-A141134 ..... 19 p3124 N84-29845 #
AD-A141136 ..... 20 p3134 N84-29698 #
AD-A141143 ..... 18 p2846 N84-28071 #
AD-A141144 ..... 18 p2926 N84-28554 #
AD-A141145 ..... 18 p2924 N84-28542 #
AD-A141147 ..... 18 p2834 N84-27989 #
AD-A141152 ..... 18 p2828 N84-27957 #
AD-A141157 ..... 18 p2846 N84-28072 #
AD-A141162 ..... 18 p2829 N84-27958 #
AD-A141164 ..... 18 p2851 N84-28100 #
AD-A141167 ..... 18 p2894 N84-28362 #
AD-A141169 ..... 18 p2926 N84-28555 #
AD-A141173 ..... 18 p2808 N84-27827 #
AD-A141174 ..... 18 p2814 N84-27861 #
AD-A141175 ..... 18 p2795 N84-27736 #
AD-A141176 ..... 18 p2811 N84-27844 #
AD-A141177 ..... 18 p2932 N84-28592 #
AD-A141178 ..... 18 p2877 N84-28270 #
AD-A141180 ..... 18 p2851 N84-28101 #
AD-A141181 ..... 18 p2834 N84-27990 #
AD-A141184 ..... 18 p2811 N84-27845 #
AD-A141185 ..... 18 p2880 N84-28283 #
AD-A141186 ..... 18 p2921 N84-28525 #
AD-A141187 ..... 18 p2849 N84-28090 #
AD-A141190 ..... 18 p2798 N84-27753 #
AD-A141193 ..... 18 p2814 N84-27862 #
AD-A141194 ..... 18 p2829 N84-27959 #
AD-A141195 ..... 18 p2846 N84-28073 #
AD-A141196 ..... 18 p2811 N84-27846 #
AD-A141197 ..... 18 p2818 N84-27893 #
AD-A141199 ..... 18 p2793 N84-27726 #
AD-A141203 ..... 18 p2846 N84-28074 #
AD-A141206 ..... 18 p2837 N84-28006 #
AD-A141207 ..... 18 p2798 N84-27754 #
AD-A141209 ..... 18 p2894 N84-28363 #
AD-A141210 ..... 18 p2821 N84-27911 #
AD-A141214 ..... 18 p2889 N84-28339 #
AD-A141215 ..... 18 p2889 N84-28340 #
AD-A141216 ..... 18 p2926 N84-28556 #
AD-A141224 ..... 18 p2837 N84-28007 #
AD-A141225 ..... 18 p2926 N84-28557 #
AD-A141227 ..... 18 p2889 N84-28341 #
AD-A141228 ..... 18 p2890 N84-28342 #
AD-A141229 ..... 18 p2890 N84-28343 #
AD-A141230 ..... 18 p2811 N84-27847 #
AD-A141232 ..... 18 p2851 N84-28102 #
AD-A141233 ..... 18 p2890 N84-28344 #
AD-A141234 ..... 18 p2846 N84-28075 #
AD-A141235 ..... 18 p2940 N84-28650 #
AD-A141236 ..... 18 p2880 N84-28284 #
AD-A141237 ..... 18 p2829 N84-27960 #
AD-A141241 ..... 18 p2929 N84-28577 #
AD-A141242 ..... 18 p2818 N84-27894 #
AD-A141244 ..... 18 p2933 N84-28597 #
AD-A141245 ..... 18 p2890 N84-28345 #
AD-A141246 ..... 18 p2811 N84-27848 #
AD-A141247 ..... 18 p2851 N84-28103 #
AD-A141248 ..... 18 p2810 N84-27838 #
AD-A141249 ..... 18 p2814 N84-27863 #
AD-A141252 ..... 18 p2793 N84-27727 #
AD-A141253 ..... 18 p2917 N84-28496 #
AD-A141255 ..... 18 p2930 N84-28578 #
AD-A141260 ..... 18 p2837 N84-28008 #
AD-A141261 ..... 18 p2814 N84-27864 #
AD-A141263 ..... 18 p2924 N84-28543 #
AD-A141265 ..... 18 p2818 N84-27895 #
AD-A141270 ..... 18 p2802 N84-27781 #
AD-A141271 ..... 18 p2941 N84-28651 #
AD-A141272 ..... 18 p2941 N84-28652 #
AD-A141273 ..... 18 p2917 N84-28497 #
AD-A141275 ..... 18 p2834 N84-27991 #
AD-A141276 ..... 18 p2829 N84-27961 #
AD-A141277 ..... 18 p2931 N84-28584 #
AD-A141278 ..... 18 p2829 N84-27962 #
AD-A141279 ..... 18 p2796 N84-27740 #
AD-A141280 ..... 18 p2932 N84-28593 #
AD-A141281 ..... 18 p2866 N84-28198 #
AD-A141283 ..... 18 p2890 N84-28346 #
AD-A141284 ..... 18 p2880 N84-28285 #
AD-A141286 ..... 18 p2890 N84-28347 #
AD-A141287 ..... 18 p2821 N84-27912 #
AD-A141288 ..... 18 p2844 N84-28062 #

AD-A141291 ..... 18 p2829 N84-27963 #
AD-A141297 ..... 18 p2802 N84-27782 #
AD-A141298 ..... 18 p2819 N84-27896 #
AD-A141299 ..... 18 p2830 N84-27964 #
AD-A141302 ..... 18 p2893 N84-28359 #
AD-A141303 ..... 18 p2830 N84-27965 #
AD-A141304 ..... 18 p2917 N84-28498 #
AD-A141305 ..... 18 p2927 N84-28562 #
AD-A141306 ..... 18 p2945 N84-28674 #
AD-A141307 ..... 18 p2807 N84-27821 #
AD-A141308 ..... 18 p2946 N84-28679 #
AD-A141309 ..... 18 p2830 N84-27966 #
AD-A141313 ..... 18 p2944 N84-28667 #
AD-A141315 ..... 18 p2814 N84-27865 #
AD-A141318 ..... 18 p2876 N84-28259 #
AD-A141319 ..... 18 p2930 N84-28579 #
AD-A141320 ..... 18 p2880 N84-28286 #
AD-A141323 ..... 18 p2849 N84-28091 #
AD-A141324 ..... 18 p2793 N84-27728 #
AD-A141326 ..... 18 p2834 N84-27992 #
AD-A141327 ..... 18 p2927 N84-28563 #
AD-A141328 ..... 18 p2877 N84-28271 #
AD-A141333 ..... 18 p2830 N84-27967 #
AD-A141335 ..... 18 p2900 N84-28397 #
AD-A141336 ..... 19 p3075 N84-29510 #
AD-A141337 ..... 18 p2791 N84-27715 #
AD-A141341 ..... 18 p2789 N84-27699 #
AD-A141342 ..... 18 p2891 N84-28348 #
AD-A141343 ..... 18 p2932 N84-28594 #
AD-A141347 ..... 19 p3075 N84-29511 #
AD-A141348 ..... 18 p2819 N84-27897 #
AD-A141355 ..... 19 p3058 N84-29399 #
AD-A141357 ..... 19 p3058 N84-29400 #
AD-A141360 ..... 19 p3072 N84-29487 #
AD-A141364 ..... 19 p2998 N84-28998 #
AD-A141369 ..... 19 p3004 N84-29040 #
AD-A141374 ..... 19 p3065 N84-29444 #
AD-A141377 ..... 19 p3052 N84-29367 #
AD-A141379 ..... 19 p2988 N84-28931 #
AD-A141381 ..... 19 p3029 N84-29209 #
AD-A141383 ..... 19 p3099 N84-29688 #
AD-A141386 ..... 19 p3075 N84-29512 #
AD-A141388 ..... 19 p3029 N84-29210 #
AD-A141389 ..... 19 p3083 N84-29566 #
AD-A141390 ..... 19 p3083 N84-29567 #
AD-A141393 ..... 19 p3075 N84-29513 #
AD-A141395 ..... 19 p3063 N84-29436 #
AD-A141396 ..... 19 p3114 N84-29786 #
AD-A141397 ..... 19 p3114 N84-29787 #
AD-A141398 ..... 19 p3083 N84-29568 #
AD-A141399 ..... 19 p3083 N84-29569 #
AD-A141401 ..... 19 p3083 N84-29570 #
AD-A141403 ..... 19 p2982 N84-28895 #
AD-A141404 ..... 19 p3084 N84-29571 #
AD-A141405 ..... 19 p3052 N84-29368 #
AD-A141406 ..... 19 p3013 N84-29098 #
AD-A141407 ..... 19 p3100 N84-29695 #
AD-A141408 ..... 19 p3114 N84-29788 #
AD-A141409 ..... 21 p3409 N84-31620 #
AD-A141410 ..... 19 p2993 N84-28968 #
AD-A141418 ..... 19 p2966 N84-28796 #
AD-A141420 ..... 19 p3004 N84-29041 #
AD-A141421 ..... 19 p3075 N84-29514 #
AD-A141429 ..... 19 p2983 N84-28906 #
AD-A141430 ..... 19 p3084 N84-29572 #
AD-A141431 ..... 19 p2958 N84-28751 #
AD-A141435 ..... 19 p2961 N84-28768 #
AD-A141437 ..... 19 p3013 N84-29099 #
AD-A141438 ..... 19 p2993 N84-28969 #
AD-A141440 ..... 19 p3115 N84-29796 #
AD-A141444 ..... 19 p3076 N84-29515 #
AD-A141445 ..... 19 p3100 N84-29689 #
AD-A141450 ..... 21 p3383 N84-31465 #
AD-A141453 ..... 19 p3004 N84-29042 #
AD-A141455 ..... 19 p3070 N84-29480 #
AD-A141456 ..... 21 p3358 N84-31300 #
AD-A141458 ..... 19 p3013 N84-29100 #
AD-A141461 ..... 19 p3084 N84-29573 #
AD-A141464 ..... 19 p3101 N84-29696 #
AD-A141466 ..... 19 p2969 N84-28817 #
AD-A141467 ..... 19 p3076 N84-29516 #
AD-A141468 ..... 19 p3058 N84-29401 #
AD-A141473 ..... 19 p3041 N84-29293 #
AD-A141474 ..... 19 p3005 N84-29043 #
AD-A141480 ..... 19 p3005 N84-29044 #
AD-A141483 ..... 19 p2988 N84-28932 #
AD-A141484 ..... 19 p3058 N84-29402 #
AD-A141485 ..... 19 p2998 N84-28999 #
AD-A141486 ..... 19 p3076 N84-29517 #
AD-A141488 ..... 19 p3116 N84-29797 #
AD-A141490 ..... 19 p3033 N84-29237 #
AD-A141492 ..... 19 p2960 N84-28763 #
AD-A141495 ..... 19 p3001 N84-29021 #
AD-A141496 ..... 19 p2994 N84-28970 #
AD-A141498 ..... 19 p3065 N84-29445 #
AD-A141499 ..... 19 p3065 N84-29446 #
AD-A141500 ..... 19 p3076 N84-29518 #
AD-A141501 ..... 19 p3076 N84-29519 #
AD-A141502 ..... 19 p2984 N84-28907 #
AD-A141503 ..... 19 p3116 N84-29798 #
AD-A141504 ..... 19 p3084 N84-29574 #
AD-A141505 ..... 19 p3093 N84-29641 #
AD-A141506 ..... 19 p3084 N84-29575 #
AD-A141507 ..... 19 p3084 N84-29576 #
AD-A141508 ..... 19 p3023 N84-29172 #
AD-A141509 ..... 19 p3084 N84-29577 #
AD-A141512 ..... 19 p2984 N84-28908 #
AD-A141513 ..... 19 p2984 N84-28909 #
AD-A141514 ..... 19 p2984 N84-28910 #
AD-A141515 ..... 19 p2984 N84-28911 #
AD-A141519 ..... 19 p3085 N84-29578 #
AD-A141522 ..... 19 p3101 N84-29697 #
AD-A141524 ..... 19 p2998 N84-29000 #
AD-A141526 ..... 19 p2994 N84-28971 #
AD-A141528 ..... 19 p3005 N84-29045 #
AD-A141531 ..... 19 p2999 N84-29001 #
AD-A141532 ..... 19 p3107 N84-29739 #
AD-A141533 ..... 19 p3041 N84-29294 #
AD-A141534 ..... 19 p3023 N84-29173 #
AD-A141536 ..... 19 p3005 N84-29046 #
AD-A141537 ..... 19 p3027 N84-29195 #
AD-A141538 ..... 19 p3107 N84-29740 #
AD-A141539 ..... 19 p3077 N84-29520 #
AD-A141540 ..... 19 p3058 N84-29403 #
AD-A141541 ..... 19 p3085 N84-29579 #
AD-A141546 ..... 19 p2999 N84-29002 #
AD-A141547 ..... 19 p3061 N84-29424 #
AD-A141548 ..... 19 p3005 N84-29047 #
AD-A141549 ..... 19 p3005 N84-29048 #
AD-A141551 ..... 19 p2959 N84-28752 #
AD-A141552 ..... 19 p3058 N84-29404 #
AD-A141554 ..... 19 p3005 N84-29049 #
AD-A141557 ..... 19 p3072 N84-29488 #
AD-A141558 ..... 19 p2999 N84-29003 #
AD-A141559 ..... 19 p2988 N84-28933 #
AD-A141560 ..... 19 p2994 N84-28972 #
AD-A141561 ..... 19 p3067 N84-29457* #
AD-A141562 ..... 18 p2796 N84-27741 #
AD-A141563 ..... 19 p2981 N84-28890 #
AD-A141564 ..... 19 p2955 N84-28728 #
AD-A141565 ..... 19 p3054 N84-29378 #
AD-A141568 ..... 19 p3107 N84-29741 #
AD-A141569 ..... 19 p3077 N84-29521 #
AD-A141571 ..... 19 p3104 N84-29719 #
AD-A141572 ..... 19 p2969 N84-28818 #
AD-A141574 ..... 19 p3110 N84-29761 #
AD-A141575 ..... 19 p3077 N84-29522 #
AD-A141576 ..... 19 p3077 N84-29523 #
AD-A141577 ..... 19 p3110 N84-29762 #
AD-A141582 ..... 19 p3023 N84-29174 #
AD-A141583 ..... 19 p3077 N84-29524 #
AD-A141584 ..... 19 p3005 N84-29050 #
AD-A141597 ..... 19 p3085 N84-29580 #
AD-A141598 ..... 19 p3065 N84-29447 #
AD-A141599 ..... 19 p3024 N84-29175 #
AD-A141600 ..... 19 p3085 N84-29581 #
AD-A141601 ..... 19 p3085 N84-29582 #
AD-A141606 ..... 19 p3085 N84-29583 #
AD-A141607 ..... 19 p3085 N84-29584 #
AD-A141608 ..... 19 p3085 N84-29585 #
AD-A141626 ..... 19 p3041 N84-29295 #
AD-A141627 ..... 19 p2999 N84-29004 #
AD-A141630 ..... 19 p3024 N84-29176 #
AD-A141631 ..... 19 p3077 N84-29525 #
AD-A141632 ..... 19 p3078 N84-29526 #
AD-A141634 ..... 21 p3399 N84-31564 #
AD-A141648 ..... 19 p3095 N84-29656 #
AD-A141649 ..... 19 p2984 N84-28912 #
AD-A141652 ..... 19 p3086 N84-29586 #
AD-A141653 ..... 19 p3086 N84-29587 #
AD-A141654 ..... 19 p3086 N84-29588 #
AD-A141657 ..... 19 p3072 N84-29489 #
AD-A141658 ..... 19 p3041 N84-29296 #
AD-A141659 ..... 19 p2999 N84-29005 #
AD-A141660 ..... 19 p3086 N84-29589 #
AD-A141661 ..... 19 p3086 N84-29590 #
AD-A141662 ..... 21 p3471 N84-31999 #
AD-A141665 ..... 19 p2961 N84-28769 #
AD-A141666 ..... 19 p3061 N84-29425 #
AD-A141672 ..... 19 p2988 N84-28810 #
AD-A141673 ..... 19 p3062 N84-29426 #
AD-A141674 ..... 19 p2999 N84-29006 #
AD-A141675 ..... 19 p3024 N84-29177 #
AD-A141685 ..... 19 p3086 N84-29591 #
AD-A141687 ..... 19 p2970 N84-28819 #
AD-A141689 ..... 21 p3366 N84-31351 #
AD-A141691 ..... 19 p3035 N84-29254 #
AD-A141692 ..... 19 p3086 N84-29592 #
AD-A141695 ..... 19 p3087 N84-29593 #
AD-A141696 ..... 19 p3093 N84-29642 #
AD-A141697 ..... 19 p2986 N84-28920 #
AD-A141698 ..... 21 p3471 N84-32000 #

AD-A141699 ..... 19 p3087 N84-29594 #
AD-A141700 ..... 19 p3087 N84-29595 #
AD-A141702 ..... 19 p2970 N84-28820 #
AD-A141704 ..... 19 p3080 N84-29547 #
AD-A141705 ..... 19 p3031 N84-29227 #
AD-A141706 ..... 19 p3058 N84-29405 #
AD-A141707 ..... 21 p3465 N84-31967 #
AD-A141708 ..... 19 p3024 N84-29178 #
AD-A141709 ..... 19 p3087 N84-29596 #
AD-A141711 ..... 19 p3002 N84-29026 #
AD-A141712 ..... 19 p3063 N84-29437 #
AD-A141713 ..... 21 p3518 N84-32285 #
AD-A141717 ..... 19 p3081 N84-29548 #
AD-A141724 ..... 19 p2994 N84-28973 #
AD-A141725 ..... 19 p2963 N84-28782 #
AD-A141727 ..... 19 p3101 N84-29698 #
AD-A141728 ..... 19 p3087 N84-29597 #
AD-A141731 ..... 19 p3087 N84-29598 #
AD-A141732 ..... 19 p3067 N84-29458 #
AD-A141735 ..... 19 p3036 N84-29255 #
AD-A141739 ..... 19 p2964 N84-28783 #
AD-A141741 ..... 19 p3110 N84-29763 #
AD-A141746 ..... 19 p3006 N84-29051 #
AD-A141747 ..... 19 p3006 N84-29052 #
AD-A141748 ..... 19 p3006 N84-29053 #
AD-A141749 ..... 19 p3087 N84-29599 #
AD-A141750 ..... 19 p2988 N84-28934 #
AD-A141751 ..... 19 p2988 N84-28935 #
AD-A141754 ..... 19 p3029 N84-29211 #
AD-A141755 ..... 19 p3111 N84-29764 #
AD-A141758 ..... 19 p3116 N84-29799 #
AD-A141759 ..... 19 p2959 N84-28753 #
AD-A141760 ..... 19 p3087 N84-29600 #
AD-A141761 ..... 19 p3093 N84-29643 #
AD-A141762 ..... 19 p3052 N84-29369 #
AD-A141765 ..... 19 p2964 N84-28787 #
AD-A141766 ..... 19 p3041 N84-29297 #
AD-A141767 ..... 19 p3068 N84-29459 #
AD-A141768 ..... 19 p3088 N84-29601 #
AD-A141769 ..... 19 p3031 N84-29228 #
AD-A141770 ..... 19 p3114 N84-29789 #
AD-A141772 ..... 19 p3078 N84-29527 #
AD-A141777 ..... 19 p3101 N84-29699 #
AD-A141778 ..... 19 p3041 N84-29298 #
AD-A141779 ..... 19 p3032 N84-29229 #
AD-A141780 ..... 19 p2994 N84-28974 #
AD-A141782 ..... 19 p3088 N84-29602 #
AD-A141783 ..... 19 p3078 N84-29528 #
AD-A141784 ..... 19 p2970 N84-28821 #
AD-A141786 ..... 19 p3116 N84-29800 #
AD-A141788 ..... 19 p3036 N84-29256 #
AD-A141791 ..... 19 p3124 N84-29846 #
AD-A141793 ..... 19 p2966 N84-28797 #
AD-A141796 ..... 19 p2966 N84-28798 #
AD-A141800 ..... 19 p3062 N84-29427 #
AD-A141802 ..... 19 p2999 N84-29007 #
AD-A141803 ..... 19 p2985 N84-28913 #
AD-A141808 ..... 19 p3032 N84-29230 #
AD-A141809 ..... 19 p2988 N84-28936 #
AD-A141810 ..... 20 p3250 N84-30627 #
AD-A141811 ..... 19 p2959 N84-28754 #
AD-A141813 ..... 19 p3111 N84-29765 #
AD-A141815 ..... 19 p2964 N84-28784 #
AD-A141821 ..... 19 p3115 N84-29790 #
AD-A141823 ..... 19 p3078 N84-29529 #
AD-A141824 ..... 19 p3088 N84-29603 #
AD-A141825 ..... 19 p2989 N84-28937 #
AD-A141826 ..... 19 p2986 N84-28921 #
AD-A141827 ..... 19 p2970 N84-28822 #
AD-A141828 ..... 19 p3006 N84-29054 #
AD-A141829 ..... 19 p3088 N84-29604 #
AD-A141830 ..... 19 p3052 N84-29370 #
AD-A141832 ..... 19 p2989 N84-28938 #
AD-A141834 ..... 19 p3078 N84-29530 #
AD-A141835 ..... 19 p3068 N84-29460 #
AD-A141839 ..... 19 p3051 N84-29359 #
AD-A141840 ..... 19 p3107 N84-29742 #
AD-A141846 ..... 21 p3465 N84-31968 #
AD-A141848 ..... 19 p3078 N84-29531 #
AD-A141850 ..... 19 p2980 N84-28886 #
AD-A141851 ..... 19 p3001 N84-29022 #
AD-A141854 ..... 19 p3088 N84-29605 #
AD-A141855 ..... 19 p3013 N84-29101 #
AD-A141856 ..... 19 p2982 N84-28896 #
AD-A141857 ..... 19 p3068 N84-29461 #
AD-A141858 ..... 19 p3036 N84-29257 #
AD-A141862 ..... 19 p3078 N84-29532 #
AD-A141863 ..... 19 p2964 N84-28785 #
AD-A141864 ..... 19 p3059 N84-29406 #
AD-A141866 ..... 19 p3036 N84-29258 #
AD-A141868 ..... 19 p3013 N84-29102 #
AD-A141869 ..... 19 p3051 N84-29360 #
AD-A141871 ..... 19 p3014 N84-29103 #
AD-A141874 ..... 19 p3100 N84-29690 #
AD-A141875 ..... 19 p3006 N84-29055 #
AD-A141876 ..... 19 p3104 N84-29720 #
AD-A141877 ..... 19 p3006 N84-29056 #
AD-A141886 ..... 19 p3088 N84-29606 #
AD-A141889 ..... 19 p3029 N84-29212 #
AD-A141891 ..... 19 p3093 N84-29644 #
AD-A141904 ..... 20 p3196 N84-30297 #
AD-A141905 ..... 20 p3131 N84-29880 #
AD-A141906 ..... 20 p3193 N84-30275 #
AD-A141909 ..... 20 p3177 N84-30177 #
AD-A141914 ..... 20 p3173 N84-30148 #
AD-A141915 ..... 20 p3250 N84-30628 #
AD-A141920 ..... 20 p3269 N84-30741 #
AD-A141921 ..... 20 p3173 N84-30149 #
AD-A141923 ..... 20 p3161 N84-30074 #
AD-A141925 ..... 20 p3312 N84-31033 #
AD-A141927 ..... 20 p3152 N84-30016 #
AD-A141939 ..... 20 p3196 N84-30298 #
AD-A141940 ..... 20 p3134 N84-29899 #
AD-A141941 ..... 20 p3170 N84-30128 #
AD-A141943 ..... 20 p3183 N84-30227 #
AD-A141946 ..... 20 p3152 N84-30017 #
AD-A141949 ..... 20 p3269 N84-30742 #
AD-A141955 ..... 20 p3201 N84-30335 #
AD-A141960 ..... 20 p3299 N84-30951 #
AD-A141961 ..... 20 p3302 N84-30967 #
AD-A141965 ..... 20 p3129 N84-29872 #
AD-A141966 ..... 20 p3202 N84-30336 #
AD-A141974 ..... 20 p3126 N84-29855 #
AD-A141978 ..... 20 p3131 N84-29881 #
AD-A141981 ..... 20 p3290 N84-30890 #
AD-A141982 ..... 20 p3266 N84-30721 #
AD-A141983 ..... 20 p3299 N84-30952 #
AD-A141991 ..... 20 p3269 N84-30743 #
AD-A141997 ..... 20 p3269 N84-30744 #
AD-A141998 ..... 20 p3308 N84-31009 #
AD-A141999 ..... 20 p3314 N84-31048 #
AD-A142001 ..... 20 p3199 N84-30320 #
AD-A142003 ..... 19 p3014 N84-29104 #
AD-A142004 ..... 20 p3177 N84-30178 #
AD-A142010 ..... 20 p3277 N84-30802 #
AD-A142012 ..... 20 p3199 N84-30321 #
AD-A142013 ..... 20 p3238 N84-30555 #
AD-A142014 ..... 20 p3245 N84-30596 #
AD-A142017 ..... 20 p3161 N84-30075 #
AD-A142019 ..... 20 p3228 N84-30512 #
AD-A142025 ..... 20 p3228 N84-30513 #
AD-A142027 ..... 19 p2999 N84-29008 #
AD-A142032 ..... 19 p3032 N84-29231 #
AD-A142033 ..... 19 p3036 N84-29259 #
AD-A142036 ..... 19 p3111 N84-29766 #
AD-A142040 ..... 19 p3062 N84-29428 #
AD-A142041 ..... 19 p3088 N84-29607 #
AD-A142042 ..... 19 p3078 N84-29533 #
AD-A142043 ..... 11 p1625 N84-20633 #
AD-A142052 ..... 11 p1639 N84-20712 #
AD-A142053 ..... 19 p2959 N84-28755 #
AD-A142054 ..... 19 p2955 N84-28729 #
AD-A142056 ..... 19 p3104 N84-29721 #
AD-A142059 ..... 21 p3421 N84-31702 #
AD-A142063 ..... 19 p3101 N84-29700 #
AD-A142065 ..... 21 p3383 N84-31466 #
AD-A142066 ..... 21 p3366 N84-31352 #
AD-A142071 ..... 20 p3129 N84-29873 #
AD-A142072 ..... 20 p3127 N84-29860 #
AD-A142073 ..... 20 p3199 N84-30322 #
AD-A142075 ..... 20 p3129 N84-29874 #
AD-A142078 ..... 21 p3328 N84-31113 #
AD-A142079 ..... 20 p3166 N84-30104 #
AD-A142082 ..... 20 p3134 N84-29900 #
AD-A142083 ..... 09 p1329 N84-18676 #
AD-A142084 ..... 21 p3434 N84-31786 #
AD-A142085 ..... 20 p3177 N84-30179 #
AD-A142091 ..... 19 p3042 N84-29299 #
AD-A142092 ..... 19 p2961 N84-28764 #
AD-A142094 ..... 19 p3089 N84-29608 #
AD-A142095 ..... 19 p3101 N84-29701 #
AD-A142099 ..... 19 p2983 N84-28902 #
AD-A142101 ..... 19 p3072 N84-29490 #
AD-A142102 ..... 19 p3036 N84-29260 #
AD-A142103 ..... 19 p3007 N84-29057 #
AD-A142104 ..... 19 p3007 N84-29058 #
AD-A142107 ..... 19 p3007 N84-29059 #
AD-A142118 ..... 19 p3016 N84-29118 #
AD-A142122 ..... 19 p3072 N84-29491 #
AD-A142124 ..... 19 p3065 N84-29448 #
AD-A142125 ..... 19 p3111 N84-29767 #
AD-A142127 ..... 19 p3024 N84-29179 #
AD-A142128 ..... 19 p3024 N84-29180 #
AD-A142129 ..... 19 p3007 N84-29060 #
AD-A142130 ..... 19 p3072 N84-29492 #
AD-A142131 ..... 19 p2961 N84-28770 #
AD-A142132 ..... 19 p3072 N84-29493 #
AD-A142136 ..... 19 p3089 N84-29609 #
AD-A142137 ..... 19 p3066 N84-29449 #
AD-A142138 ..... 11 p1692 N84-21039 #
AD-A142139 ..... 09 p1317 N84-18606 #
AD-A142140 ..... 19 p3073 N84-29494 #

AD-A142141 ..... 19 p3071 N84-29481 #
AD-A142142 ..... 19 p3016 N84-29119 #
AD-A142148 ..... 19 p3000 N84-29009 #
AD-A142149 ..... 19 p3089 N84-29610 #
AD-A142152 ..... 19 p3104 N84-29722 #
AD-A142153 ..... 19 p2989 N84-28939 #
AD-A142159 ..... 19 p3089 N84-29611 #
AD-A142160 ..... 19 p3081 N84-29549 #
AD-A142161 ..... 19 p3101 N84-29702 #
AD-A142162 ..... 19 p3042 N84-29300 #
AD-A142164 ..... 19 p3089 N84-29612 #
AD-A142166 ..... 19 p3066 N84-29450 #
AD-A142169 ..... 19 p3066 N84-29451 #
AD-A142171 ..... 19 p3071 N84-29482 #
AD-A142173 ..... 19 p3042 N84-29301 #
AD-A142174 ..... 19 p3042 N84-29302 #
AD-A142175 ..... 19 p3116 N84-29801 #
AD-A142177 ..... 19 p3073 N84-29495 #
AD-A142179 ..... 19 p3068 N84-29462 #
AD-A142180 ..... 19 p3002 N84-29023 #
AD-A142183 ..... 19 p3107 N84-29743 #
AD-A142185 ..... 19 p3016 N84-29120 #
AD-A142187 ..... 19 p3068 N84-29463 #
AD-A142188 ..... 19 p3016 N84-29121 #
AD-A142189 ..... 19 p3007 N84-29061 #
AD-A142190 ..... 19 p2989 N84-28940 #
AD-A142191 ..... 19 p3115 N84-29791 #
AD-A142193 ..... 19 p3024 N84-29181 #
AD-A142194 ..... 19 p2966 N84-28799 #
AD-A142195 ..... 19 p3111 N84-29768 #
AD-A142198 ..... 19 p3089 N84-29613 #
AD-A142199 ..... 19 p2989 N84-28941 #
AD-A142200 ..... 19 p3054 N84-29379 #
AD-A142201 ..... 19 p3016 N84-29122 #
AD-A142202 ..... 19 p3007 N84-29062 #
AD-A142204 ..... 19 p3007 N84-29063 #
AD-A142205 ..... 19 p2989 N84-28942 #
AD-A142206 ..... 19 p3054 N84-29380 #
AD-A142209 ..... 19 p3007 N84-29064 #
AD-A142212 ..... 19 p3059 N84-29407 #
AD-A142216 ..... 19 p3008 N84-29065 #
AD-A142218 ..... 19 p3066 N84-29452 #
AD-A142220 ..... 19 p2994 N84-28975 #
AD-A142224 ..... 19 p3079 N84-29534 #
AD-A142225 ..... 19 p2989 N84-28943 #
AD-A142226 ..... 19 p3008 N84-29066 #
AD-A142229 ..... 19 p3093 N84-29645 #
AD-A142239 ..... 19 p3079 N84-29535 #
AD-A142246 ..... 19 p3089 N84-29614 #
AD-A142247 ..... 19 p3008 N84-29067 #
AD-A142248 ..... 19 p3094 N84-29646 #
AD-A142249 ..... 19 p3096 N84-29660 #
AD-A142250 ..... 19 p3079 N84-29536 #
AD-A142251 ..... 19 p3090 N84-29615 #
AD-A142252 ..... 20 p3177 N84-30180 #
AD-A142253 ..... 19 p3090 N84-29616 #
AD-A142255 ..... 19 p3008 N84-29068 #
AD-A142256 ..... 19 p3054 N84-29381 #
AD-A142259 ..... 19 p2955 N84-28730 #
AD-A142260 ..... 19 p3008 N84-29069 #
AD-A142262 ..... 19 p3090 N84-29617 #
AD-A142263 ..... 19 p3008 N84-29070 #
AD-A142264 ..... 19 p3090 N84-29618* #
AD-A142267 ..... 19 p3000 N84-29010 #
AD-A142268 ..... 19 p3042 N84-29303 #
AD-A142273 ..... 19 p3036 N84-29261 #
AD-A142276 ..... 20 p3161 N84-30076 #
AD-A142280 ..... 20 p3152 N84-30018 #
AD-A142281 ..... 20 p3312 N84-31034 #
AD-A142289 ..... 20 p3256 N84-30669 #
AD-A142290 ..... 20 p3202 N84-30337 #
AD-A142293 ..... 20 p3153 N84-30019 #
AD-A142294 ..... 20 p3245 N84-30597 #
AD-A142295 ..... 20 p3125 N84-29848 #
AD-A142296 ..... 20 p3228 N84-30514 #
AD-A142297 ..... 20 p3202 N84-30338 #
AD-A142302 ..... 19 p3107 N84-29744 #
AD-A142303 ..... 19 p3102 N84-29703 #
AD-A142306 ..... 19 p3062 N84-29429 #
AD-A142310 ..... 19 p3037 N84-29262 #
AD-A142312 ..... 19 p2980 N84-28888 #
AD-A142313 ..... 19 p3009 N84-29071 #
AD-A142319 ..... 19 p3029 N84-29213 #
AD-A142323 ..... 19 p3090 N84-29619 #
AD-A142326 ..... 19 p3094 N84-29647 #
AD-A142327 ..... 19 p3054 N84-29382 #
AD-A142328 ..... 19 p3025 N84-29182 #
AD-A142329 ..... 19 p3066 N84-29453 #
AD-A142330 ..... 19 p3066 N84-29454 #
AD-A142332 ..... 19 p3009 N84-29072 #
AD-A142333 ..... 20 p3147 N84-29981 #
AD-A142334 ..... 20 p3147 N84-29982 #
AD-A142335 ..... 20 p3147 N84-29983 #
AD-A142336 ..... 20 p3280 N84-30819 #
AD-A142337 ..... 20 p3272 N84-30766 #
AD-A142339 ..... 20 p3291 N84-30891 #
AD-A142340 ..... 20 p3265 N84-30716 #
AD-A142341 ..... 20 p3292 N84-30900 #
AD-A142342 ..... 20 p3306 N84-31010 #
AD-A142345 ..... 20 p3173 N84-30150 #
AD-A142346 ..... 20 p3283 N84-30847 #
AD-A142347 ..... 20 p3166 N84-30105 #
AD-A142348 ..... 20 p3280 N84-30820 #
AD-A142350 ..... 20 p3202 N84-30339 #
AD-A142352 ..... 20 p3153 N84-30020 #
AD-A142353 ..... 20 p3173 N84-30151 #
AD-A142356 ..... 20 p3250 N84-30629 #
AD-A142357 ..... 20 p3173 N84-30152 #
AD-A142358 ..... 20 p3174 N84-30153 #
AD-A142363 ..... 20 p3174 N84-30154 #
AD-A142364 ..... 20 p3280 N84-30821 #
AD-A142374 ..... 20 p3147 N84-29984 #
AD-A142376 ..... 20 p3174 N84-30155 #
AD-A142377 ..... 20 p3177 N84-30181 #
AD-A142381 ..... 20 p3178 N84-30182 #
AD-A142382 ..... 20 p3162 N84-30077 #
AD-A142387 ..... 20 p3318 N84-31062 #
AD-A142388 ..... 20 p3228 N84-30511* #
AD-A142389 ..... 20 p3312 N84-31035 #
AD-A142392 ..... 20 p3313 N84-31036 #
AD-A142393 ..... 20 p3308 N84-31011 #
AD-A142394 ..... 20 p3280 N84-30822 #
AD-A142399 ..... 20 p3125 N84-29849 #
AD-A142400 ..... 20 p3128 N84-29865 #
AD-A142401 ..... 20 p3280 N84-30823 #
AD-A142402 ..... 20 p3184 N84-30228 #
AD-A142403 ..... 20 p3269 N84-30745 #
AD-A142404 ..... 20 p3280 N84-30824 #
AD-A142405 ..... 20 p3308 N84-31012 #
AD-A142406 ..... 20 p3147 N84-29985 #
AD-A142407 ..... 20 p3148 N84-29986 #
AD-A142409 ..... 20 p3245 N84-30598 #
AD-A142410 ..... 20 p3266 N84-30722 #
AD-A142412 ..... 21 p3436 N84-31799 #
AD-A142413 ..... 21 p3436 N84-31800 #
AD-A142414 ..... 20 p3266 N84-30723 #
AD-A142415 ..... 20 p3281 N84-30825 #
AD-A142417 ..... 20 p3174 N84-30156 #
AD-A142418 ..... 20 p3148 N84-29987 #
AD-A142420 ..... 20 p3291 N84-30892 #
AD-A142421 ..... 20 p3174 N84-30157 #
AD-A142423 ..... 14 p2100 N84-23602 #
AD-A142424 ..... 20 p3128 N84-29866 #
AD-A142425 ..... 20 p3148 N84-29988 #
AD-A142426 ..... 20 p3162 N84-30078 #
AD-A142427 ..... 20 p3174 N84-30158 #
AD-A142429 ..... 20 p3272 N84-30767 #
AD-A142430 ..... 20 p3272 N84-30768 #
AD-A142431 ..... 20 p3272 N84-30769 #
AD-A142432 ..... 20 p3272 N84-30770 #
AD-A142433 ..... 20 p3178 N84-30183 #
AD-A142434 ..... 20 p3262 N84-30696 #
AD-A142435 ..... 20 p3272 N84-30771 #
AD-A142438 ..... 20 p3272 N84-30772 #
AD-A142440 ..... 20 p3273 N84-30773 #
AD-A142441 ..... 20 p3245 N84-30599 #
AD-A142444 ..... 20 p3132 N84-29889 #
AD-A142445 ..... 20 p3148 N84-29989 #
AD-A142447 ..... 20 p3273 N84-30774 #
AD-A142448 ..... 20 p3266 N84-30724 #
AD-A142450 ..... 20 p3313 N84-31037 #
AD-A142451 ..... 20 p3262 N84-30697 #
AD-A142452 ..... 20 p3283 N84-30848 #
AD-A142455 ..... 20 p3281 N84-30826 #
AD-A142456 ..... 20 p3309 N84-31013 #
AD-A142457 ..... 20 p3262 N84-30698 #
AD-A142460 ..... 20 p3281 N84-30827 #
AD-A142462 ..... 20 p3178 N84-30184 #
AD-A142463 ..... 20 p3309 N84-31014 #
AD-A142464 ..... 17 p2733 N84-27372 #
AD-A142465 ..... 20 p3283 N84-30849 #
AD-A142467 ..... 20 p3133 N84-29894
AD-A142468 ..... 20 p3153 N84-30021 #
AD-A142473 ..... 20 p3184 N84-30229 #
AD-A142474 ..... 20 p3256 N84-30670 #
AD-A142475 ..... 20 p3273 N84-30775 #
AD-A142477 ..... 20 p3127 N84-29859 #
AD-A142478 ..... 20 p3175 N84-30159 #
AD-A142482 ..... 20 p3278 N84-30809 #
AD-A142483 ..... 20 p3148 N84-29990 #
AD-A142484 ..... 20 p3291 N84-30893 #
AD-A142486 ..... 20 p3184 N84-30230 #
AD-A142488 ..... 20 p3278 N84-30810 #
AD-A142489 ..... 20 p3279 N84-30811 #
AD-A142490 ..... 20 p3257 N84-30671 #
AD-A142492 ..... 20 p3284 N84-30850 #
AD-A142493 ..... 20 p3127 N84-29861 #
AD-A142504 ..... 20 p3153 N84-30022 #
AD-A142505 ..... 20 p3281 N84-30828 #
AD-A142506 ..... 20 p3162 N84-30079 #
AD-A142508 ..... 20 p3128 N84-29867 #
AD-A142510 ..... 20 p3131 N84-29882 #

AD-A142511 ..... 20 p3178 N84-30185 #
AD-A142513 ..... 20 p3300 N84-30953 #
AD-A142515 ..... 20 p3196 N84-30299 #
AD-A142518 ..... 20 p3266 N84-30725 #
AD-A142520 ..... 20 p3250 N84-30630 #
AD-A142523 ..... 20 p3302 N84-30968 #
AD-A142524 ..... 20 p3300 N84-30954 #
AD-A142525 ..... 20 p3300 N84-30955 #
AD-A142527 ..... 20 p3170 N84-30129 #
AD-A142532 ..... 20 p3259 N84-30686 #
AD-A142536 ..... 20 p3148 N84-29991 #
AD-A142537 ..... 20 p3178 N84-30186 #
AD-A142538 ..... 20 p3202 N84-30340 #
AD-A142541 ..... 20 p3148 N84-29992 #
AD-A142542 ..... 20 p3162 N84-30080 #
AD-A142544 ..... 20 p3149 N84-29993 #
AD-A142548 ..... 20 p3251 N84-30631 #
AD-A142549 ..... 20 p3259 N84-30687 #
AD-A142550 ..... 20 p3260 N84-30688 #
AD-A142551 ..... 20 p3184 N84-30231 #
AD-A142553 ..... 20 p3251 N84-30632 #
AD-A142554 ..... 20 p3175 N84-30160 #
AD-A142555 ..... 20 p3309 N84-31015 #
AD-A142556 ..... 16 p2451 N84-25718 #
AD-A142557 ..... 20 p3281 N84-30829 #
AD-A142558 ..... 20 p3281 N84-30830 #
AD-A142561 ..... 21 p3443 N84-31848 #
AD-A142573 ..... 20 p3240 N84-30572 #
AD-A142589 ..... 20 p3153 N84-30023 #
AD-A142590 ..... 20 p3228 N84-30515 #
AD-A142599 ..... 20 p3178 N84-30187 #
AD-A142600 ..... 20 p3260 N84-30689 #
AD-A142601 ..... 20 p3184 N84-30232 #
AD-A142605 ..... 20 p3196 N84-30300 #
AD-A142606 ..... 20 p3162 N84-30081 #
AD-A142609 ..... 20 p3153 N84-30024 #
AD-A142619 ..... 20 p3300 N84-30956 #
AD-A142620 ..... 20 p3251 N84-30633 #
AD-A142634 ..... 20 p3291 N84-30894 #
AD-A142636 ..... 20 p3279 N84-30812 #
AD-A142637 ..... 20 p3281 N84-30831 #
AD-A142638 ..... 20 p3273 N84-30776 #
AD-A142644 ..... 20 p3281 N84-30832 #
AD-A142645 ..... 20 p3292 N84-30901 #
AD-A142648 ..... 20 p3241 N84-30573 #
AD-A142649 ..... 21 p3391 N84-31518 #
AD-A142650 ..... 20 p3126 N84-29856 #
AD-A142661 ..... 20 p3149 N84-29994 #
AD-A142662 ..... 20 p3263 N84-30699 #
AD-A142670 ..... 20 p3260 N84-30690 #
AD-A142671 ..... 20 p3300 N84-30957 #
AD-A142673 ..... 20 p3241 N84-30574 #
AD-A142674 ..... 21 p3421 N84-31703 #
AD-A142675 ..... 20 p3202 N84-30341 #
AD-A142676 ..... 20 p3246 N84-30600 #
AD-A142677 ..... 20 p3265 N84-30717 #
AD-A142679 ..... 20 p3251 N84-30634 #
AD-A142682 ..... 20 p3241 N84-30575 #
AD-A142683 ..... 20 p3128 N84-29868 #
AD-A142690 ..... 21 p3447 N84-31871 #
AD-A142693 ..... 20 p3184 N84-30233 #
AD-A142696 ..... 20 p3197 N84-30301 #
AD-A142698 ..... 20 p3267 N84-30726 #
AD-A142700 ..... 20 p3314 N84-31049 #
AD-A142703 ..... 20 p3145 N84-29966 #
AD-A142705 ..... 22 p3630 N84-33005 #
AD-A142706 ..... 20 p3246 N84-30601 #
AD-A142707 ..... 20 p3273 N84-30777 #
AD-A142712 ..... 20 p3314 N84-31050 #
AD-A142719 ..... 20 p3178 N84-30188 #
AD-A142720 ..... 20 p3284 N84-30851 #
AD-A142724 ..... 20 p3260 N84-30691 #
AD-A142727 ..... 20 p3170 N84-30130 #
AD-A142729 ..... 20 p3179 N84-30189 #
AD-A142732 ..... 20 p3263 N84-30700 #
AD-A142733 ..... 20 p3189 N84-30258 #
AD-A142737 ..... 21 p3498 N84-32170 #
AD-A142738 ..... 21 p3430 N84-31764 #
AD-A142739 ..... 21 p3343 N84-31210 #
AD-A142744 ..... 21 p3470 N84-31990 #
AD-A142746 ..... 21 p3430 N84-31765 #
AD-A142748 ..... 21 p3386 N84-31486 #
AD-A142752 ..... 21 p3325 N84-31098 #
AD-A142753 ..... 21 p3328 N84-31114 #
AD-A142754 ..... 21 p3383 N84-31467 #
AD-A142764 ..... 21 p3431 N84-31766 #
AD-A142767 ..... 21 p3444 N84-31849 #
AD-A142768 ..... 21 p3471 N84-32001 #
AD-A142772 ..... 21 p3474 N84-32020 #
AD-A142773 ..... 21 p3325 N84-31099 #
AD-A142774 ..... 21 p3508 N84-32223 #
AD-A142775 ..... 21 p3515 N84-32266 #
AD-A142776 ..... 21 p3329 N84-31121 #
AD-A142777 ..... 21 p3335 N84-31165 #
AD-A142778 ..... 21 p3342 N84-31201 #
AD-A142779 ..... 21 p3342 N84-31202 #
AD-A142780 ..... 21 p3342 N84-31203 #
AD-A142781 ..... 21 p3342 N84-31204 #
AD-A142782 ..... 21 p3342 N84-31205 #
AD-A142783 ..... 21 p3342 N84-31206 #
AD-A142784 ..... 21 p3342 N84-31207 #
AD-A142787 ..... 21 p3431 N84-31767 #
AD-A142788 ..... 21 p3515 N84-32267 #
AD-A142789 ..... 16 p2497 N84-26020 #
AD-A142790 ..... 16 p2483 N84-25924 #
AD-A142792 ..... 21 p3399 N84-31565 #
AD-A142793 ..... 21 p3400 N84-31566 #
AD-A142795 ..... 21 p3462 N84-31950 #
AD-A142797 ..... 21 p3409 N84-31621 #
AD-A142799 ..... 21 p3497 N84-32163 #
AD-A142802 ..... 21 p3386 N84-31487 #
AD-A142805 ..... 16 p2495 N84-26005 #
AD-A142806 ..... 21 p3326 N84-31102 #
AD-A142807 ..... 21 p3357 N84-31293 #
AD-A142808 ..... 21 p3472 N84-32002 #
AD-A142809 ..... 21 p3515 N84-32268 #
AD-A142810 ..... 21 p3422 N84-31704 #
AD-A142811 ..... 16 p2470 N84-25828 #
AD-A142820 ..... 21 p3400 N84-31567 #
AD-A142822 ..... 21 p3493 N84-32132 #
AD-A142831 ..... 21 p3386 N84-31488 #
AD-A142834 ..... 21 p3493 N84-32133 #
AD-A142840 ..... 21 p3325 N84-31100 #
AD-A142843 ..... 21 p3472 N84-32003 #
AD-A142844 ..... 21 p3400 N84-31568 #
AD-A142845 ..... 21 p3386 N84-31489 #
AD-A142846 ..... 14 p2100 N84-23603 #
AD-A142847 ..... 21 p3465 N84-31969 #
AD-A142849 ..... 21 p3349 N84-31247 #
AD-A142852 ..... 20 p3135 N84-29906 #
AD-A142868 ..... 21 p3472 N84-32004 #
AD-A142872 ..... 21 p3422 N84-31705 #
AD-A142873 ..... 21 p3444 N84-31850 #
AD-A142879 ..... 21 p3391 N84-31519 #
AD-A142880 ..... 21 p3328 N84-31115 #
AD-A142881 ..... 16 p2486 N84-25942 #
AD-A142884 ..... 21 p3459 N84-31941 #
AD-A142891 ..... 21 p3366 N84-31353 #
AD-A142893 ..... 21 p3472 N84-32005 #
AD-A142894 ..... 21 p3472 N84-32006 #
AD-A142895 ..... 21 p3472 N84-32007 #
AD-A142896 ..... 21 p3459 N84-31942 #
AD-A142899 ..... 21 p3370 N84-31381 #
AD-A142904 ..... 21 p3473 N84-32008 #
AD-A142905 ..... 21 p3473 N84-32009 #
AD-A142918 ..... 21 p3431 N84-31768 #
AD-A142919 ..... 21 p3461 N84-31947 #
AD-A142922 ..... 21 p3372 N84-31400 #
AD-A142923 ..... 21 p3354 N84-31276 #
AD-A142929 ..... 21 p3386 N84-31490 #
AD-A142930 ..... 21 p3498 N84-32171 #
AD-A142931 ..... 21 p3400 N84-31569 #
AD-A142936 ..... 21 p3451 N84-31897 #
AD-A142937 ..... 21 p3391 N84-31520 #
AD-A142943 ..... 21 p3323 N84-31085 #
AD-A142946 ..... 21 p3461 N84-31948 #
AD-A142947 ..... 21 p3422 N84-31706 #
AD-A142951 ..... 21 p3422 N84-31707 #
AD-A142956 ..... 16 p2473 N84-25853 #
AD-A142957 ..... 21 p3345 N84-31222 #
AD-A142959 ..... 21 p3391 N84-31521 #
AD-A142961 ..... 21 p3453 N84-31912 #
AD-A142962 ..... 21 p3493 N84-32134 #
AD-A142963 ..... 21 p3473 N84-32010 #
AD-A142964 ..... 21 p3473 N84-32011 #
AD-A142966 ..... 21 p3409 N84-31622 #
AD-A142968 ..... 21 p3370 N84-31382 #
AD-A142970 ..... 21 p3444 N84-31851 #
AD-A142975 ..... 21 p3386 N84-31491 #
AD-A142976 ..... 21 p3391 N84-31522 #
AD-A142979 ..... 21 p3453 N84-31913 #
AD-A142980 ..... 21 p3473 N84-32012 #
AD-A142981 ..... 21 p3475 N84-32021 #
AD-A142982 ..... 21 p3475 N84-32022 #
AD-A142991 ..... 21 p3504 N84-32204 #
AD-A142994 ..... 21 p3348 N84-31241 #
AD-A142996 ..... 21 p3492 N84-32127 #
AD-A143000 ..... 21 p3473 N84-32013 #
AD-A143001 ..... 21 p3366 N84-31354 #
AD-A143002 ..... 21 p3473 N84-32014 #
AD-A143005 ..... 21 p3465 N84-31970 #
AD-A143012 ..... 21 p3353 N84-31268 #
AD-A143013 ..... 21 p3400 N84-31570 #
AD-A143015 ..... 21 p3518 N84-32286 #
AD-A143017 ..... 21 p3359 N84-31303 #
AD-A143023 ..... 21 p3326 N84-31103 #
AD-A143025 ..... 20 p3140 N84-29939 #
AD-A143027 ..... 21 p3409 N84-31623 #
AD-A143028 ..... 21 p3504 N84-32205 #
AD-A143031 ..... 21 p3465 N84-31971 #
AD-A143032 ..... 21 p3466 N84-31972 #
AD-A143036 ..... 21 p3386 N84-31492 #

AD-A143037 ..... 21 p3518 N84-32287 #
AD-A143038 ..... 21 p3453 N84-31914 #
AD-A143039 ..... 21 p3504 N84-32206 #
AD-A143040 ..... 21 p3370 N84-31383 #
AD-A143041 ..... 21 p3366 N84-31355 #
AD-A143056 ..... 21 p3387 N84-31493 #
AD-A143072 ..... 21 p3466 N84-31973 #
AD-A143076 ..... 21 p3504 N84-32207 #
AD-A143079 ..... 21 p3492 N84-32128 #
AD-A143083 ..... 21 p3357 N84-31294 #
AD-A143084 ..... 21 p3447 N84-31872 #
AD-A143085 ..... 21 p3473 N84-32015 #
AD-A143086 ..... 21 p3359 N84-31304 #
AD-A143087 ..... 21 p3457 N84-31938 #
AD-A143096 ..... 21 p3457 N84-31939 #
AD-A143098 ..... 21 p3413 N84-31642 #
AD-A143100 ..... 21 p3475 N84-32023 #
AD-A143104 ..... 21 p3343 N84-31211 #
AD-A143118 ..... 21 p3405 N84-31600 #
AD-A143123 ..... 21 p3474 N84-32016 #
AD-A143128 ..... 21 p3493 N84-32136 #
AD-A143129 ..... 21 p3454 N84-31915 #
AD-A143131 ..... 21 p3359 N84-31305 #
AD-A143135 ..... 21 p3436 N84-31801 #
AD-A143141 ..... 21 p3436 N84-31802 #
AD-A143142 ..... 21 p3498 N84-32172 #
AD-A143143 ..... 21 p3392 N84-31523 #
AD-A143144 ..... 21 p3526 N84-32336 #
AD-A143157 ..... 21 p3373 N84-31406 #
AD-A143159 ..... 21 p3370 N84-31384 #
AD-A143161 ..... 21 p3387 N84-31494 #
AD-A143162 ..... 21 p3447 N84-31873 #
AD-A143164 ..... 21 p3366 N84-31356 #
AD-A143168 ..... 21 p3327 N84-31108 #
AD-A143170 ..... 21 p3466 N84-31974 #
AD-A143171 ..... 21 p3359 N84-31306 #
AD-A143172 ..... 21 p3475 N84-32024 #
AD-A143173 ..... 21 p3422 N84-31708 #
AD-A143176 ..... 22 p3559 N84-32537 #
AD-A143177 ..... 22 p3648 N84-33125 #
AD-A143179 ..... 22 p3543 N84-32430 #
AD-A143180 ..... 22 p3682 N84-33214 #
AD-A143181 ..... 22 p3623 N84-32954 #
AD-A143182 ..... 22 p3593 N84-32754 #
AD-A143183 ..... 16 p2555 N84-26391 #
AD-A143184 ..... 22 p3586 N84-32708 #
AD-A143188 ..... 22 p3555 N84-32509 #
AD-A143189 ..... 22 p3625 N84-32969 #
AD-A143190 ..... 14 p2144 N84-23851 #
AD-A143195 ..... 22 p3648 N84-33126 #
AD-A143196 ..... 22 p3576 N84-32651 #
AD-A143198 ..... 22 p3546 N84-32449 #
AD-A143199 ..... 22 p3559 N84-32538 #
AD-A143200 ..... 22 p3546 N84-32450 #
AD-A143201 ..... 22 p3662 N84-33215 #
AD-A143202 ..... 22 p3546 N84-32451 #
AD-A143203 ..... 22 p3611 N84-32878 #
AD-A143204 ..... 22 p3586 N84-32709 #
AD-A143207 ..... 22 p3559 N84-32539 #
AD-A143208 ..... 22 p3682 N84-33216 #
AD-A143209 ..... 22 p3648 N84-33127 #
AD-A143213 ..... 22 p3623 N84-32955 #
AD-A143215 ..... 22 p3648 N84-33128 #
AD-A143216 ..... 22 p3600 N84-32806 #
AD-A143219 ..... 22 p3529 N84-32345 #
AD-A143222 ..... 22 p3650 N84-33139 #
AD-A143225 ..... 22 p3653 N84-33155 #
AD-A143226 ..... 22 p3638 N84-33060 #
AD-A143228 ..... 22 p3547 N84-32452 #
AD-A143229 ..... 22 p3652 N84-33151 #
AD-A143230 ..... 22 p3586 N84-32710 #
AD-A143231 ..... 22 p3623 N84-32956 #
AD-A143233 ..... 22 p3586 N84-32711 #
AD-A143238 ..... 22 p3674 N84-33287 #
AD-A143239 ..... 22 p3576 N84-32652 #
AD-A143241 ..... 22 p3559 N84-32540 #
AD-A143244 ..... 16 p2446 N84-25691 #
AD-A143246 ..... 22 p3630 N84-33006 #
AD-A143248 ..... 22 p3604 N84-32830 #
AD-A143249 ..... 22 p3560 N84-32541 #
AD-A143250 ..... 22 p3614 N84-32900 #
AD-A143252 ..... 22 p3531 N84-32359 #
AD-A143253 ..... 22 p3532 N84-32360 #
AD-A143254 ..... 22 p3532 N84-32361 #
AD-A143255 ..... 22 p3662 N84-33217 #
AD-A143258 ..... 22 p3532 N84-32362 #
AD-A143262 ..... 22 p3607 N84-32850 #
AD-A143263 ..... 17 p2603 N84-26680 #
AD-A143264 ..... 22 p3653 N84-33156 #
AD-A143266 ..... 22 p3577 N84-32653 #
AD-A143269 ..... 22 p3547 N84-32453 #
AD-A143273 ..... 22 p3625 N84-32970 #
AD-A143274 ..... 22 p3586 N84-32712 #
AD-A143275 ..... 22 p3663 N84-33218 #
AD-A143277 ..... 22 p3623 N84-32957 #
AD-A143279 ..... 22 p3593 N84-32755 #
AD-A143283 ..... 22 p3611 N84-32879 #
AD-A143287 ..... 22 p3648 N84-33129 #
AD-A143289 ..... 22 p3653 N84-33157 #
AD-A143295 ..... 22 p3601 N84-32807 #
AD-A143297 ..... 22 p3644 N84-33101 #
AD-A143298 ..... 22 p3658 N84-33190 #
AD-A143299 ..... 22 p3607 N84-32851 #
AD-A143302 ..... 22 p3577 N84-32654 #
AD-A143305 ..... 22 p3599 N84-32792 #
AD-A143315 ..... 22 p3669 N84-33252 #
AD-A143316 ..... 22 p3669 N84-33253 #
AD-A143317 ..... 22 p3623 N84-32958 #
AD-A143318 ..... 22 p3577 N84-32655 #
AD-A143319 ..... 22 p3623 N84-32959 #
AD-A143320 ..... 22 p3541 N84-32417 #
AD-A143321 ..... 22 p3577 N84-32656 #
AD-A143324 ..... 22 p3638 N84-33061 #
AD-A143327 ..... 22 p3555 N84-32510 #
AD-A143328 ..... 22 p3555 N84-32511 #
AD-A143329 ..... 22 p3611 N84-32880 #
AD-A143330 ..... 22 p3539 N84-32406* #
AD-A143331 ..... 22 p3657 N84-33182 #
AD-A143347 ..... 22 p3541 N84-32419 #
AD-A143349 ..... 22 p3611 N84-32881 #
AD-A143350 ..... 22 p3577 N84-32657 #
AD-A143360 ..... 22 p3534 N84-32372 #
AD-A143361 ..... 22 p3663 N84-33219 #
AD-A143364 ..... 22 p3648 N84-33130 #
AD-A143368 ..... 22 p3611 N84-32882 #
AD-A143383 ..... 22 p3628 N84-32991 #
AD-A143384 ..... 22 p3657 N84-33183 #
AD-A143386 ..... 22 p3560 N84-32542 #
AD-A143387 ..... 22 p3648 N84-33131 #
AD-A143389 ..... 22 p3538 N84-32396 #
AD-A143390 ..... 22 p3561 N84-32553 #
AD-A143391 ..... 22 p3659 N84-33191 #
AD-A143392 ..... 22 p3623 N84-32960 #
AD-A143393 ..... 22 p3625 N84-32971 #
AD-A143398 ..... 22 p3674 N84-33288 #
AD-A143401 ..... 22 p3593 N84-32756 #
AD-A143402 ..... 22 p3618 N84-32923 #
AD-A143419 ..... 22 p3535 N84-32382 #
AD-A143423 ..... 22 p3663 N84-33220 #
AD-A143424 ..... 22 p3640 N84-33077 #
AD-A143425 ..... 22 p3638 N84-33062 #
AD-A143426 ..... 22 p3663 N84-33221 #
AD-A143428 ..... 22 p3674 N84-33289 #
AD-A143430 ..... 22 p3586 N84-32713 #
AD-A143434 ..... 22 p3648 N84-33132 #
AD-A143438 ..... 22 p3674 N84-33290 #
AD-A143439 ..... 22 p3645 N84-33114 #
AD-A143446 ..... 22 p3638 N84-33063 #
AD-A143449 ..... 22 p3601 N84-32808 #
AD-A143450 ..... 22 p3645 N84-33115 #
AD-A143456 ..... 22 p3663 N84-33222 #
AD-A143458 ..... 22 p3560 N84-32543 #
AD-A143459 ..... 22 p3638 N84-33064 #
AD-A143465 ..... 22 p3663 N84-33223 #
AD-A143466 ..... 22 p3547 N84-32454 #
AD-A143467 ..... 22 p3593 N84-32757 #
AD-A143468 ..... 22 p3646 N84-33116 #
AD-A143469 ..... 22 p3663 N84-33224 #
AD-A143470 ..... 22 p3640 N84-33078 #
AD-A143471 ..... 22 p3657 N84-33184 #
AD-A143473 ..... 22 p3604 N84-32831 #
AD-A143474 ..... 22 p3638 N84-33065 #
AD-A143485 ..... 22 p3669 N84-33254 #
AD-A143487 ..... 22 p3645 N84-33117 #
AD-A143499 ..... 22 p3604 N84-32832 #
AD-A143500 ..... 22 p3674 N84-33291 #
AD-A143501 ..... 22 p3674 N84-33292 #
AD-A143503 ..... 22 p3674 N84-33293 #
AD-A143506 ..... 22 p3594 N84-32758 #
AD-A143507 ..... 22 p3628 N84-32992 #
AD-A143510 ..... 22 p3594 N84-32759 #
AD-A143525 ..... 22 p3547 N84-32455 #
AD-A143526 ..... 22 p3594 N84-32760 #
AD-A143527 ..... 22 p3640 N84-33079 #
AD-A143528 ..... 22 p3646 N84-33118 #
AD-A143529 ..... 22 p3643 N84-33098 #
AD-A143530 ..... 22 p3604 N84-32833 #
AD-A143531 ..... 22 p3668 N84-33250 #
AD-A143532 ..... 22 p3640 N84-33080 #
AD-A143533 ..... 22 p3640 N84-33081 #
AD-A143536 ..... 22 p3652 N84-33152 #
AD-A143537 ..... 22 p3646 N84-33119 #
AD-A143538 ..... 22 p3601 N84-32809 #
AD-A143542 ..... 22 p3545 N84-32440 #
AD-A143547 ..... 22 p3644 N84-33102 #
AD-A143551 ..... 22 p3664 N84-33225 #
AD-A143552 ..... 22 p3664 N84-33226 #
AD-A143556 ..... 22 p3664 N84-33227 #
AD-A143559 ..... 22 p3664 N84-33228 #
AD-A143563 ..... 22 p3627 N84-32984 #
AD-A143564 ..... 22 p3625 N84-32972 #
AD-A143565 ..... 22 p3657 N84-33185 #

AD-A143569 ..... 22 p3538 N84-32400 #
AD-A143570 ..... 22 p3631 N84-33007 #
AD-A143571 ..... 22 p3586 N84-32714 #
AD-A143572 ..... 22 p3624 N84-32961 #
AD-A143573 ..... 22 p3562 N84-32554 #
AD-A143575 ..... 22 p3577 N84-32658 #
AD-A143576 ..... 22 p3625 N84-32973 #
AD-A143581 ..... 22 p3641 N84-33062 #
AD-A143584 ..... 22 p3641 N84-33083 #
AD-A143585 ..... 22 p3641 N84-33084 #
AD-A143587 ..... 22 p3649 N84-33133 #
AD-A143588 ..... 22 p3627 N84-32985 #
AD-A143589 ..... 22 p3599 N84-32793 #
AD-A143591 ..... 23 p3690 N84-33389 #
AD-A143592 ..... 23 p3798 N84-34082 #
AD-A143594 ..... 23 p3753 N84-33791 #
AD-A143596 ..... 23 p3834 N84-34322 #
AD-A143597 ..... 23 p3824 N84-34254 #
AD-A143598 ..... 23 p3810 N84-34157 #
AD-A143599 ..... 23 p3834 N84-34323 #
AD-A143601 ..... 23 p3830 N84-34292 #
AD-A143606 ..... 23 p3827 N84-34276 #
AD-A143611 ..... 17 p2604 N84-26684 #
AD-A143612 ..... 17 p2622 N84-26784 #
AD-A143613 ..... 23 p3730 N84-33643 #
AD-A143614 ..... 23 p3695 N84-33419 #
AD-A143618 ..... 23 p3817 N84-34201 #
AD-A143621 ..... 18 p2795 N84-27735 #
AD-A143626 ..... 23 p3754 N84-33792 #
AD-A143627 ..... 23 p3761 N84-33836 #
AD-A143628 ..... 23 p3825 N84-34255 #
AD-A143630 ..... 23 p3815 N84-34191 #
AD-A143631 ..... 23 p3746 N84-33750 #
AD-A143633 ..... 23 p3724 N84-33597 #
AD-A143634 ..... 23 p3812 N84-34173 #
AD-A143635 ..... 23 p3751 N84-33776 #
AD-A143637 ..... 23 p3754 N84-33793 #
AD-A143638 ..... 23 p3821 N84-34232 #
AD-A143639 ..... 23 p3754 N84-33794 #
AD-A143640 ..... 23 p3828 N84-34277 #
AD-A143641 ..... 23 p3833 N84-34315 #
AD-A143642 ..... 23 p3747 N84-33751 #
AD-A143644 ..... 23 p3730 N84-33644 #
AD-A143645 ..... 23 p3811 N84-34167 #
AD-A143647 ..... 23 p3731 N84-33645 #
AD-A143650 ..... 23 p3696 N84-33424 #
AD-A143654 ..... 23 p3754 N84-33795 #
AD-A143655 ..... 23 p3726 N84-33609 #
AD-A143662 ..... 23 p3731 N84-33646 #
AD-A143664 ..... 23 p3741 N84-33716 #
AD-A143666 ..... 23 p3820 N84-34223 #
AD-A143668 ..... 23 p3758 N84-33821 #
AD-A143674 ..... 14 p2094 N84-23564 #
AD-A143678 ..... 23 p3747 N84-33752 #
AD-A143679 ..... 23 p3820 N84-34224 #
AD-A143680 ..... 23 p3844 N84-34389 #
AD-A143681 ..... 23 p3754 N84-33796 #
AD-A143683 ..... 23 p3784 N84-33998 #
AD-A143685 ..... 23 p3761 N84-33837 #
AD-A143695 ..... 23 p3693 N84-33404 #
AD-A143698 ..... 23 p3812 N84-34174 #
AD-A143700 ..... 23 p3834 N84-34324 #
AD-A143712 ..... 23 p3691 N84-33395 #
AD-A143715 ..... 23 p3754 N84-33797 #
AD-A143726 ..... 23 p3701 N84-33457 #
AD-A143736 ..... 23 p3802 N84-34105 #
AD-A143748 ..... 23 p3824 N84-34252 #
AD-A143759 ..... 23 p3713 N84-33537 #
AD-A143762 ..... 23 p3731 N84-33647 #
AD-A143763 ..... 23 p3815 N84-34192 #
AD-A143764 ..... 23 p3690 N84-33390 #
AD-A143765 ..... 23 p3813 N84-34175 #
AD-A143766 ..... 23 p3817 N84-34203 #
AD-A143767 ..... 23 p3830 N84-34293 #
AD-A143772 ..... 23 p3693 N84-33408 #
AD-A143773 ..... 23 p3713 N84-33538 #
AD-A143778 ..... 23 p3698 N84-33435 #
AD-A143779 ..... 23 p3714 N84-33539 #
AD-A143784 ..... 23 p3828 N84-34278 #
AD-A143785 ..... 23 p3718 N84-33567 #
AD-A143786 ..... 23 p3815 N84-34193 #
AD-A143787 ..... 23 p3815 N84-34194 #
AD-A143788 ..... 23 p3822 N84-34235 #
AD-A143791 ..... 23 p3714 N84-33540 #
AD-A143792 ..... 23 p3718 N84-33568 #
AD-A143793 ..... 23 p3714 N84-33541 #
AD-A143796 ..... 23 p3731 N84-33648 #
AD-A143797 ..... 23 p3810 N84-34158 #
AD-A143800 ..... 23 p3835 N84-34325 #
AD-A143804 ..... 23 p3747 N84-33753 #
AD-A143807 ..... 23 p3810 N84-34159 #
AD-A143811 ..... 23 p3747 N84-33754 #
AD-A143814 ..... 24 p3866 N84-34503 #
AD-A143815 ..... 23 p3742 N84-33717 #
AD-A143819 ..... 23 p3742 N84-33718 #
AD-A143820 ..... 23 p3830 N84-34294 #
AD-A143821 ..... 23 p3811 N84-34168 #
AD-A143823 ..... 23 p3714 N84-33542 #
AD-A143826 ..... 23 p3693 N84-33405 #
AD-A143829 ..... 23 p3701 N84-33458 #
AD-A143841 ..... 23 p3844 N84-34387* #
AD-A143842 ..... 23 p3724 N84-33598 #
AD-A143845 ..... 23 p3693 N84-33406 #
AD-A143849 ..... 23 p3803 N84-34113 #
AD-A143860 ..... 23 p3693 N84-33407 #
AD-A143864 ..... 23 p3731 N84-33649 #
AD-A143867 ..... 23 p3822 N84-34236 #
AD-A143875 ..... 23 p3835 N84-34326 #
AD-A143892 ..... 23 p3714 N84-33543 #
AD-A143900 ..... 23 p3835 N84-34327 #
AD-A143902 ..... 23 p3818 N84-34208 #
AD-A143904 ..... 23 p3726 N84-33610 #
AD-A143908 ..... 23 p3815 N84-34195 #
AD-A143911 ..... 23 p3711 N84-33525 #
AD-A143912 ..... 23 p3731 N84-33650 #
AD-A143913 ..... 23 p3821 N84-34229 #
AD-A143917 ..... 16 p2454 N84-25732 #
AD-A143927 ..... 23 p3731 N84-33651 #
AD-A143928 ..... 23 p3754 N84-33798 #
AD-A143932 ..... 23 p3825 N84-34256 #
AD-A143933 ..... 23 p3803 N84-34114 #
AD-A143935 ..... 23 p3724 N84-33599 #
AD-A143937 ..... 23 p3818 N84-34209 #
AD-A143947 ..... 23 p3742 N84-33719 #
AD-A143948 ..... 23 p3830 N84-34295 #
AD-A143954 ..... 23 p3724 N84-33600 #
AD-A143955 ..... 23 p3822 N84-34237 #
AD-A143956 ..... 23 p3822 N84-34238 #
AD-A143958 ..... 21 p3418 N84-31679 #
AD-A143959 ..... 23 p3724 N84-33601 #
AD-A143962 ..... 16 p2802 N84-27780* #
AD-A143963 ..... 23 p3816 N84-34196 #
AD-A143967 ..... 23 p3828 N84-34279 #
AD-A143970 ..... 23 p3822 N84-34239 #
AD-A143971 ..... 23 p3718 N84-33569 #
AD-A143973 ..... 23 p3697 N84-33426 #
AD-A143984 ..... 23 p3816 N84-34197 #
AD-A143985 ..... 23 p3732 N84-33652 #
AD-A143987 ..... 23 p3802 N84-34106 #
AD-A143988 ..... 23 p3825 N84-34257 #
AD-A143994 ..... 23 p3825 N84-34258 #
AD-A143996 ..... 23 p3825 N84-34259 #
AD-A144002 ..... 23 p3691 N84-33391 #
AD-A144006 ..... 23 p3833 N84-34316 #
AD-A144017 ..... 23 p3834 N84-34317 #
AD-A144018 ..... 23 p3725 N84-33602 #
AD-A144020 ..... 23 p3805 N84-34126 #
AD-A144021 ..... 23 p3835 N84-34328 #
AD-A144025 ..... 23 p3828 N84-34281 #
AD-A144037 ..... 23 p3761 N84-33838 #
AD-A144042 ..... 23 p3802 N84-34107 #
AD-A144043 ..... 23 p3699 N84-33447 #
AD-A144045 ..... 23 p3687 N84-33366 #
AD-A144049 ..... 23 p3742 N84-33720 #
AD-A144050 ..... 23 p3711 N84-33526 #
AD-A144053 ..... 23 p3755 N84-33799 #
AD-A144057 ..... 23 p3822 N84-34240 #
AD-A144058 ..... 23 p3742 N84-33721 #
AD-A144064 ..... 23 p3802 N84-34108 #
AD-A144065 ..... 23 p3810 N84-34162 #
AD-A144066 ..... 23 p3802 N84-34109 #
AD-A144067 ..... 23 p3812 N84-34169 #
AD-A144070 ..... 23 p3803 N84-34115 #
AD-A144091 ..... 23 p3711 N84-33527 #
AD-A144093 ..... 23 p3820 N84-34225 #
AD-A144095 ..... 23 p3811 N84-34163 #
AD-A144096 ..... 23 p3755 N84-33800 #
AD-A144099 ..... 23 p3714 N84-33544 #
AD-A144121 ..... 24 p3950 N84-35011 #
AD-A144122 ..... 24 p3959 N84-35069 #
AD-A144123 ..... 24 p3888 N84-34621 #
AD-A144131 ..... 24 p3900 N84-34696 #
AD-A144132 ..... 24 p3935 N84-34907 #
AD-A144137 ..... 24 p3966 N84-35116 #
AD-A144140 ..... 24 p3893 N84-34656 #
AD-A144142 ..... 24 p3963 N84-35096 #
AD-A144147 ..... 24 p3965 N84-35108 #
AD-A144149 ..... 24 p3888 N84-34622 #
AD-A144150 ..... 24 p3935 N84-34910 #
AD-A144151 ..... 24 p3967 N84-35117 #
AD-A144152 ..... 24 p3937 N84-34920 #
AD-A144153 ..... 24 p3968 N84-35125 #
AD-A144154 ..... 24 p3917 N84-34799 #
AD-A144155 ..... 24 p3894 N84-34657 #
AD-A144159 ..... 24 p3948 N84-35000 #
AD-A144168 ..... 24 p3866 N84-34504 #
AD-A144169 ..... 24 p3860 N84-34463 #
AD-A144171 ..... 24 p3890 N84-34630 #
AD-A144174 ..... 24 p3883 N84-34604 #
AD-A144176 ..... 24 p3934 N84-34901 #
AD-A144177 ..... 24 p3897 N84-34676 #
AD-A144178 ..... 24 p3993 N84-35266 #

AD-A144179 ..... 24 p3938 N84-34924 #
AD-A144180 ..... 24 p3936 N84-34915 #
AD-A144181 ..... 24 p3911 N84-34770 #
AD-A144182 ..... 24 p3857 N84-34452 #
AD-A144183 ..... 24 p3880 N84-34580 #
AD-A144187 ..... 24 p3936 N84-34916 #
AD-A144188 ..... 24 p3945 N84-34978 #
AD-A144192 ..... 24 p3961 N84-35067 #
AD-A144194 ..... 24 p3884 N84-34605 #
AD-A144196 ..... 24 p3919 N84-34810 #
AD-A144197 ..... 24 p3963 N84-35097 #
AD-A144198 ..... 24 p3894 N84-34658 #
AD-A144199 ..... 24 p3853 N84-34434 #
AD-A144203 ..... 24 p3919 N84-34811 #
AD-A144208 ..... 24 p3902 N84-34710 #
AD-A144210 ..... 24 p3936 N84-34917 #
AD-A144211 ..... 16 p2452 N84-25723 #
AD-A144212 ..... 24 p3966 N84-35126 #
AD-A144214 ..... 16 p2436 N84-25625 #
AD-A144215 ..... 24 p3888 N84-34623 #
AD-A144216 ..... 24 p3897 N84-34677 #
AD-A144217 ..... 24 p3950 N84-35012 #
AD-A144218 ..... 24 p3894 N84-34659 #
AD-A144222 ..... 24 p3902 N84-34711 #
AD-A144223 ..... 24 p3965 N84-35284 #
AD-A144224 ..... 24 p3915 N84-34791 #
AD-A144225 ..... 24 p3953 N84-35034 #
AD-A144232 ..... 24 p3945 N84-34979 #
AD-A144235 ..... 19 p2961 N84-28765 #
AD-A144236 ..... 24 p3945 N84-34980 #
AD-A144237 ..... 24 p3945 N84-34981 #
AD-A144239 ..... 24 p3950 N84-35013 #
AD-A144240 ..... 24 p3945 N84-34982 #
AD-A144241 ..... 24 p3969 N84-35132 #
AD-A144243 ..... 24 p3897 N84-34676 #
AD-A144244 ..... 24 p3946 N84-34983 #
AD-A144245 ..... 24 p3894 N84-34660 #
AD-A144250 ..... 24 p3900 N84-34697 #
AD-A144251 ..... 24 p3861 N84-34466 #
AD-A144252 ..... 24 p3897 N84-34679 #
AD-A144253 ..... 24 p3894 N84-34661 #
AD-A144256 ..... 24 p3946 N84-34984 #
AD-A144257 ..... 24 p3946 N84-34985 #
AD-A144258 ..... 24 p3946 N84-34986 #
AD-A144261 ..... 24 p3938 N84-34927 #
AD-A144264 ..... 24 p3880 N84-34581 #
AD-A144266 ..... 24 p3898 N84-34660 #
AD-A144268 ..... 24 p3900 N84-34698 #
AD-A144269 ..... 24 p3888 N84-34624 #
AD-A144271 ..... 24 p3942 N84-34956 #
AD-A144274 ..... 24 p3879 N84-34578 #
AD-A144277 ..... 24 p3969 N84-35129 #
AD-A144279 ..... 24 p3884 N84-34606 #
AD-A144282 ..... 24 p3916 N84-34796 #
AD-A144283 ..... 24 p3856 N84-34446 #
AD-A144284 ..... 24 p3950 N84-35014 #
AD-A144286 ..... 24 p3951 N84-35015 #
AD-A144294 ..... 24 p3917 N84-34797 #
AD-A144295 ..... 24 p3900 N84-34699 #
AD-A144296 ..... 24 p3912 N84-34775 #
AD-A144297 ..... 24 p3935 N84-34911 #
AD-A144299 ..... 24 p3898 N84-34681 #
AD-A144300 ..... 24 p3954 N84-35037 #
AD-A144302 ..... 24 p3889 N84-34625 #
AD-A144303 ..... 24 p3894 N84-34662 #
AD-A144305 ..... 24 p3936 N84-34912 #
AD-A144309 ..... 24 p3938 N84-34925 #
AD-A144311 ..... 24 p3889 N84-34626 #
AD-A144313 ..... 24 p3908 N84-34755 #
AD-A144315 ..... 24 p3854 N84-34440 #
AD-A144319 ..... 24 p3969 N84-35130 #
AD-A144320 ..... 24 p3867 N84-34507 #
AD-A144322 ..... 24 p3908 N84-34756 #
AD-A144323 ..... 24 p3854 N84-34441 #
AD-A144324 ..... 24 p3908 N84-34757 #
AD-A144332 ..... 24 p3853 N84-34435 #
AD-A144335 ..... 24 p3951 N84-35016 #
AD-A144336 ..... 24 p3919 N84-34812* #
AD-A144349 ..... 24 p3898 N84-34682 #
AD-A144352 ..... 24 p3934 N84-34902 #
AD-A144355 ..... 24 p3898 N84-34683 #
AD-A144356 ..... 24 p3946 N84-34987 #
AD-A144358 ..... 24 p3967 N84-35118 #
AD-A144359 ..... 24 p3908 N84-34758 #
AD-A144360 ..... 24 p3946 N84-34988 #
AD-A144361 ..... 24 p3951 N84-35017 #
AD-A144367 ..... 24 p3903 N84-34712 #
AD-A144373 ..... 24 p3901 N84-34700 #
AD-A144377 ..... 24 p3963 N84-35098 #
AD-A144381 ..... 24 p3951 N84-35018 #
AD-A144387 ..... 24 p3948 N84-35001* #
AD-A144390 ..... 24 p3917 N84-34800 #
AD-A144408 ..... 24 p3894 N84-34663 #
AD-A144409 ..... 24 p3951 N84-35019 #
AD-A144410 ..... 24 p3884 N84-34607 #
AD-A144411 ..... 11 p1642 N84-20736 #
AD-A144412 ..... 24 p3967 N84-35119 #
AD-A144413 ..... 24 p3946 N84-34989 #
AD-A144414 ..... 24 p3954 N84-35036 #
AD-A144415 ..... 24 p3895 N84-34664 #
AD-A144421 ..... 24 p3890 N84-34631 #
AD-A144425 ..... 24 p3946 N84-34990 #
AD-A144426 ..... 24 p3947 N84-34991 #
AD-A144428 ..... 24 p3910 N84-34766 #
AD-A144431 ..... 24 p3935 N84-34908 #
AD-A144432 ..... 24 p3880 N84-34582 #
AD-A144433 ..... 24 p3895 N84-34665 #
AD-A144435 ..... 24 p3947 N84-34992 #
AD-A144436 ..... 24 p3880 N84-34583 #
AD-A144439 ..... 24 p3889 N84-34627 #
AD-A144440 ..... 24 p3895 N84-34666 #
AD-A144441 ..... 24 p3895 N84-34667 #
AD-A144442 ..... 24 p3920 N84-34813 #
AD-A144444 ..... 24 p3898 N84-34684 #
AD-A144445 ..... 24 p3898 N84-34685 #
AD-A144447 ..... 24 p3951 N84-35020 #
AD-A144448 ..... 24 p3934 N84-34903 #
AD-A144465 ..... 24 p3951 N84-35021 #
AD-A144466 ..... 24 p3898 N84-34686 #
AD-A144469 ..... 24 p3880 N84-34632 #
AD-A144472 ..... 24 p3967 N84-35120 #
AD-A144473 ..... 24 p3880 N84-34584 #
AD-A144480 ..... 24 p3856 N84-34447 #
AD-A144481 ..... 24 p3909 N84-34759 #
AD-A144483 ..... 24 p3952 N84-35022 #
AD-A144484 ..... 24 p3938 N84-34926 #
AD-A144485 ..... 24 p3901 N84-34701 #
AD-A144487 ..... 24 p3967 N84-35121 #
AD-A144497 ..... 24 p3947 N84-34993 #
AD-A144498 ..... 24 p3947 N84-34994 #
AD-A144499 ..... 24 p3947 N84-34995 #
AD-A144500 ..... 24 p3947 N84-34996 #
AD-A144503 ..... 12 p1767 N84-21526 #
AD-A144504 ..... 24 p3890 N84-34633 #
AD-A144521 ..... 24 p3857 N84-34453 #
AD-A144522 ..... 24 p3953 N84-35035 #
AD-A144523 ..... 24 p3969 N84-35131 #
AD-A144524 ..... 24 p3884 N84-34606 #
AD-A144525 ..... 24 p3962 N84-35088 #
AD-A144527 ..... 24 p3936 N84-34918 #
AD-A144528 ..... 24 p3898 N84-34687 #
AD-A144529 ..... 24 p3934 N84-34904 #
AD-A144533 ..... 24 p3895 N84-34668 #
AD-A144534 ..... 24 p3901 N84-34702 #
AD-A144535 ..... 24 p3937 N84-34921 #
AD-A144537 ..... 24 p3947 N84-34997 #
AD-A144538 ..... 24 p3965 N84-35109 #
AD-A144556 ..... 24 p3857 N84-34454 #
AD-A144557 ..... 24 p3937 N84-34922 #
AD-A144559 ..... 24 p3963 N84-35099 #
AD-A144560 ..... 24 p3885 N84-34499 #
AD-A144561 ..... 24 p3854 N84-34442 #
AD-A144593 ..... 24 p3898 N84-34688 #
AD-A144594 ..... 24 p3901 N84-34703 #
AD-A144595 ..... 24 p3965 N84-35110 #
AD-A144596 ..... 24 p3935 N84-34909 #
AD-A144597 ..... 24 p3949 N84-35002 #
AD-A144609 ..... 24 p3962 N84-35089 #
AD-A144610 ..... 24 p3920 N84-34814 #
AD-A144614 ..... 19 p2969 N84-28815 #
AD-A144617 ..... 24 p3937 N84-34923 #
AD-A144630 ..... 24 p3964 N84-35100 #
AD-A144631 ..... 24 p3952 N84-35023 #
AD-A144636 ..... 24 p3895 N84-34669 #
AD-A144637 ..... 24 p3962 N84-35090 #
AD-A144638 ..... 24 p3949 N84-35003 #
AD-A144640 ..... 24 p3964 N84-35101 #
AD-A144646 ..... 24 p3881 N84-34585 #
AD-A144653 ..... 24 p3962 N84-35091 #
AD-A144656 ..... 24 p3909 N84-34760 #
AD-A144658 ..... 24 p3952 N84-35024 #
AD-A144660 ..... 24 p3952 N84-35025 #
AD-A144661 ..... 24 p3952 N84-35026 #
AD-A144662 ..... 24 p3952 N84-35027 #
AD-A144663 ..... 24 p3952 N84-35028 #
AD-A144671 ..... 24 p3952 N84-35029 #
AD-A144674 ..... 24 p3857 N84-34455 #
AD-A144680 ..... 24 p3947 N84-34998 #
AD-A144684 ..... 24 p3942 N84-34959 #
AD-A144685 ..... 24 p3896 N84-34670 #
AD-A144690 ..... 24 p3889 N84-34628 #
AD-A144691 ..... 24 p3948 N84-34999 #
AD-A144692 ..... 24 p3952 N84-35030 #
AD-A144693 ..... 24 p3953 N84-35031 #
AD-A144694 ..... 24 p3953 N84-35032 #
AD-A144695 ..... 24 p3901 N84-34704 #
AD-A145046 ..... 15 p2322 N84-24943 #
AD-A145168 ..... 11 p1718 N84-21206 #
AD-A145193 ..... 11 p1747 N84-21402 #
AD-A145254 ..... 14 p2247 N84-24496 #
AD-A145365 ..... 21 p3350 N84-31248 #
AD-A145379 ..... 21 p3327 N84-31107 #

AD-A145386	22	p3538	N84-32401	#
AD-A145460	20	p3161	N84-30073	#
AD-A145641	21	p3325	N84-31095*	#
AD-A145685	16	p2500	N84-26048	#
AD-A145809	16	p2536	N84-26279	#
AD-A146085	23	p3813	N84-34177	#
AD-A146206	22	p3539	N84-32402	#
AD-B070081	03	p0443	N84-12909	#
AD-B070606	03	p0444	N84-12915	#
AD-B071515	16	p2549	N84-26361	#
AD-B071559	16	p2488	N84-25956	#
AD-B071596	17	p2724	N84-27336	#
AD-B073101	16	p2554	N84-26386	#
AD-B075822	15	p2318	N84-24915	
AD-B076255	23	p3717	N84-33562	#
AD-B076964	02	p0185	N84-11202	#
AD-B076966	02	p0211	N84-11379	#
AD-B076969	02	p0221	N84-11450	#
AD-B076986	03	p0421	N84-12756	#
AD-B077076	02	p0211	N84-11378	#
AD-B077123	03	p0374	N84-12434	#
AD-B077124	03	p0373	N84-12433	#
AD-B077151	03	p0321	N84-12098	#
AD-B078059	03	p0444	N84-12915	#
AD-B078077	03	p0444	N84-12916	#
AD-B078278	15	p2319	N84-24917	#
AD-B078301	04	p0515	N84-13381	#
AD-B078747	06	p0919	N84-15975	#
AD-B078748	06	p0919	N84-15976	#
AD-B078749	06	p0919	N84-15974	#
AD-B079206	10	p1431	N84-19355	#
AD-B079944	12	p1766	N84-21521	#
AD-B079957	12	p1768	N84-21534	#
AD-B079994	12	p1767	N84-21524	#
AD-B079996	12	p1901	N84-22379	#
AD-B079997	12	p1771	N84-21550	#
AD-B079998	12	p1885	N84-22287	#
AD-B080196	13	p2002	N84-22990	#
AD-B080347	07	p1066	N84-16918	#
AD-B080348	07	p1066	N84-16919	#
AD-B080372	07	p1064	N84-16906	#
AD-B080402	07	p1066	N84-16920	#
AD-B080403	07	p1067	N84-16930	#
AD-B080418	07	p1065	N84-16907	#
AD-B080427	07	p1065	N84-16908	#
AD-B080438	07	p1066	N84-16921	#
AD-B080443	07	p1066	N84-16922	#
AD-B080466	07	p1053	N84-16820	#
AD-B080482	07	p1066	N84-16916	#
AD-B080639	11	p1651	N84-20780	#
AD-B080715	11	p1646	N84-20760	#
AD-B080746	15	p2295	N84-24770	
AD-B080747	15	p2300	N84-24803	
AD-B080780	16	p2495	N84-26012	#
AD-B080796	15	p2349	N84-25101	#
AD-B080831	15	p2260	N84-24572	#
AD-B080838	15	p2397	N84-25379	#
AD-B081344	15	p2332	N84-25004	#
AD-B081776	15	p2258	N84-24562	#
AD-B081902	16	p2462	N84-25777	#
AD-B081990	12	p1815	N84-21830	#
AD-B082166	16	p2502	N84-26057	#
AD-B082198	15	p2349	N84-25100	#
AD-B082235	15	p2384	N84-25296	#
AD-B082282	15	p2320	N84-24929	#
AD-B082542	09	p1256	N84-18199	#
AD-B082665	17	p2601	N84-26672	#
AD-B082671	13	p2030	N84-23161	#
AD-B082690	13	p2035	N84-23199	#
AD-B082699	13	p2035	N84-23203	#
AD-B082910	13	p2029	N84-23160	#
AD-B082911	13	p2035	N84-23201	#
AD-B082924	16	p2554	N84-26387	#
AD-B082925	16	p2560	N84-26422	#
AD-B082936	19	p3067	N84-29455	#
AD-B082956	20	p3182	N84-30214	#
AD-B082961	20	p3313	N84-31043	#
AD-B082976	13	p2037	N84-23219	#
AD-B082977	13	p2035	N84-23202	#
AD-B083004	13	p2035	N84-23200	#
AD-B083008	16	p2449	N84-25708	#
AD-B083044	19	p3010	N84-29082	#
AD-B083389	14	p2252	N84-24527	#
AD-B083790	17	p2668	N84-27016	#
AD-B083791	17	p2615	N84-26738*	#
AD-B083792	17	p2748	N84-27442	#
AD-B084418	20	p3164	N84-30097	#
AD-B084815	08	p1211	N84-17897	
AD-B084827	20	p3292	N84-30898	#
AD-B084828	21	p3467	N84-31984	#
AD-B084829	20	p3275	N84-30791	#
AD-B084830	20	p3129	N84-29869	#
AD-B084831	20	p3187	N84-30253	#
AD-B084832	20	p3204	N84-30351	#
AD-B084877	20	p3132	N84-29891	#
AD-B084946	20	p3132	N84-29892	#
AD-B085059	20	p3302	N84-30966	#
AD-B085397	21	p3500	N84-32183	#
AD-B085748	20	p3128	N84-29862	#
AD-B085790	19	p3092	N84-29634	#
AD-B085791	19	p3092	N84-29636	#
AD-B085792	19	p3026	N84-29189	#
AD-B085808	20	p3187	N84-30252	#
AD-B085809	19	p3091	N84-29631	#
AD-B085855	17	p2767	N84-27569	#
AD-B085928	18	p2789	N84-27701	#
AD-B085934	17	p2766	N84-27568	#
AD-B085966	23	p3692	N84-33399	#
AD-B085967	23	p3694	N84-33409	#
AD-D010998	19	p3018	N84-29130	#
AD-D011009	19	p2962	N84-28771	#
AD-D011010	19	p3027	N84-29196	#
AD-D011011	19	p3029	N84-29214	#
AD-D011014	19	p3104	N84-29723	#
AD-D011020	19	p3018	N84-29131	#
AD-D011021	19	p3100	N84-29691	#
AD-D011025	19	p3079	N84-29537	#
AD-D011026	19	p3018	N84-29132	#
AD-D011029	19	p2982	N84-28897	#
AD-D011030	19	p3111	N84-29769	#
AD-D011031	19	p3112	N84-29770	#
AD-D011032	19	p3071	N84-29484	#
AD-D011033	19	p3018	N84-29133	#
AD-D011034	19	p3105	N84-29724	#
AD-D011035	19	p3051	N84-29361	#
AD-D011036	19	p3018	N84-29134	#
AD-D011037	19	p3027	N84-29197	#
AD-D011038	19	p3105	N84-29725	#
AD-D011040	19	p3102	N84-29704	#
AD-D011042	19	p3054	N84-29383	#
AD-D011043	19	p2995	N84-28976	#
AD-D011044	19	p3027	N84-29198	#
AD-D011045	19	p3105	N84-29726	#
AD-D011046	19	p3027	N84-29199	#
AD-D011047	19	p3105	N84-29727	#
AD-D011048	19	p3002	N84-29027	#
AD-D011049	19	p3018	N84-29135	#
AD-D011051	22	p3571	N84-32617	
AD-D011052	23	p3811	N84-34166	#
AD-D011053	22	p3596	N84-32774	
AD-D011054	22	p3541	N84-32418	
AD-D011055	22	p3572	N84-32618	
AD-D011056	22	p3596	N84-32775	
AD-D011057	22	p3580	N84-32671	
AD-D011058	22	p3532	N84-32364	
AD-D011059	22	p3655	N84-33171	
AD-D011060	22	p3563	N84-32563	
AD-D011061	23	p3830	N84-34291	#
AD-D011062	23	p3791	N84-34041	#
AD-D011064	19	p3017	N84-29123	#
AD-D011065	19	p3017	N84-29124	#
AD-D011066	19	p3000	N84-29011	#
AD-D011067	19	p3017	N84-29125	#
AD-D011068	19	p3017	N84-29126	#
AD-D011069	19	p3000	N84-29012	#
AD-D011070	19	p3017	N84-29127	#
AD-D011072	19	p3071	N84-29483	#
AD-D011074	19	p3017	N84-29128	#
AD-D011075	19	p3017	N84-29129	#
AD-D011076	21	p3387	N84-31495	#
AD-D011077	21	p3406	N84-31601	#
AD-D011078	21	p3373	N84-31407	#
AD-D011079	21	p3413	N84-31643	#
AD-D011080	21	p3413	N84-31644	#
AD-D011081	21	p3373	N84-31408	#
AD-D011082	22	p3604	N84-32834	#
AD-D011083	22	p3605	N84-32835	#
AD-D011085	22	p3599	N84-32794	#
AD-D011086	22	p3537	N84-32391	#
AD-D011087	22	p3605	N84-32836	#
AD-D011088	22	p3587	N84-32715	#
AD-D011090	22	p3657	N84-33186	#
AD-D011091	22	p3587	N84-32716	#
AD-D011092	22	p3577	N84-32659	#
AD-D011093	22	p3657	N84-33187	#
AD-D011094	22	p3555	N84-32512	#
AD-D011095	22	p3587	N84-32717	#
AD-D011096	22	p3560	N84-32544	#
AD-D011097	22	p3664	N84-33229	#
AD-D011098	22	p3601	N84-32810	#
AD-D011099	22	p3534	N84-32373	#
AD-D011101	22	p3537	N84-32392	#
AD-D011102	22	p3601	N84-32811	#
AD-D011103	22	p3587	N84-32718	#
AD-D011104	22	p3601	N84-32812	#
AD-D011105	22	p3599	N84-32795	#
AD-D011106	22	p3656	N84-33172	
AD-D011107	22	p3600	N84-32799	
AD-D011108	22	p3580	N84-32672	
AD-D011109	22	p3580	N84-32673	

AD-D011111 ..... 22 p3542 N84-32421
AD-D011112 ..... 22 p3561 N84-32551
AD-D011113 ..... 22 p3615 N84-32908
AD-D011114 ..... 22 p3656 N84-33173
AD-D011115 ..... 22 p3656 N84-33174
AD-D011116 ..... 22 p3580 N84-32674
AD-D011117 ..... 22 p3658 N84-33188 #
AD-D011118 ..... 22 p3587 N84-32719 #
AD-D011119 ..... 22 p3577 N84-32660 #
AD-D011120 ..... 22 p3601 N84-32813 #
AD-D011121 ..... 22 p3545 N84-32445
AD-D011122 ..... 22 p3558 N84-32529
AD-D011123 ..... 22 p3661 N84-33208
AD-D011124 ..... 22 p3656 N84-33175
AD-D011125 ..... 22 p3600 N84-32800
AD-D011127 ..... 22 p3656 N84-33176
AD-D011128 ..... 22 p3637 N84-33055
AD-D011129 ..... 22 p3536 N84-32386
AD-D011130 ..... 22 p3596 N84-32776
AD-D011132 ..... 22 p3562 N84-32555 #
AD-D011133 ..... 22 p3618 N84-32924 #
AD-D011135 ..... 22 p3581 N84-32675
AD-D011136 ..... 22 p3581 N84-32676
AD-D011137 ..... 22 p3661 N84-33209
AD-D011138 ..... 22 p3596 N84-32777
AD-D011140 ..... 22 p3656 N84-33177
AD-D011141 ..... 22 p3597 N84-32778
AD-D011142 ..... 22 p3544 N84-32434
AD-D011143 ..... 22 p3572 N84-32619
AD-D011144 ..... 22 p3534 N84-32376
AD-D011145 ..... 22 p3597 N84-32779
AD-D011146 ..... 23 p3735 N84-33665
AD-D011147 ..... 23 p3696 N84-33421
AD-D011148 ..... 23 p3750 N84-33770
AD-D011149 ..... 23 p3785 N84-34004
AD-D011150 ..... 23 p3735 N84-33666
AD-D011152 ..... 23 p3750 N84-33771
AD-D011153 ..... 23 p3735 N84-33667
AD-D011155 ..... 23 p3742 N84-33722 #
AD-D011156 ..... 23 p3756 N84-33812 #
AD-D011158 ..... 23 p3712 N84-33528 #
AD-D011159 ..... 23 p3821 N84-34233 #
AD-D011160 ..... 23 p3813 N84-34176 #
AD-D011161 ..... 23 p3751 N84-33777 #
AD-D011162 ..... 23 p3718 N84-33570 #
AD-D011164 ..... 23 p3825 N84-34260 #
AD-D011165 ..... 23 p3825 N84-34261 #
AD-D011166 ..... 23 p3742 N84-33723 #
AD-D011167 ..... 23 p3798 N84-34083 #
AD-D011168 ..... 23 p3757 N84-33813 #
AD-D011169 ..... 23 p3793 N84-34057 #
AD-D011171 ..... 23 p3751 N84-33778 #
AD-D011172 ..... 23 p3727 N84-33615 #
AD-D011173 ..... 23 p3698 N84-33436 #
AD-D011174 ..... 23 p3742 N84-33724 #
AD-D011175 ..... 23 p3714 N84-33545 #
AD-D011176 ..... 23 p3714 N84-33546 #
AD-D011177 ..... 23 p3718 N84-33571 #
AD-D011178 ..... 23 p3696 N84-33420 #
AD-D011179 ..... 24 p3891 N84-34639 #
AD-D011180 ..... 24 p3910 N84-34767 #
AD-D011182 ..... 24 p3897 N84-34673
AD-D011183 ..... 24 p3909 N84-34762
AD-D011184 ..... 24 p3909 N84-34763
AD-D011187 ..... 24 p3893 N84-34652
AD-D011188 ..... 24 p3966 N84-35114
AD-D011189 ..... 24 p3893 N84-34653
AD-D011190 ..... 24 p3897 N84-34674
AD-D011192 ..... 24 p3853 N84-34436
AD-D011193 ..... 24 p3887 N84-34615
AD-D011194 ..... 24 p3963 N84-35093
AD-D011195 ..... 24 p3902 N84-34706
AD-D011197 ..... 24 p3963 N84-35094
AD-D011198 ..... 24 p3893 N84-34654
AD-D011200 ..... 24 p3903 N84-34713 #
AD-D011201 ..... 24 p3896 N84-34671 #
AD-D011202 ..... 24 p3899 N84-34689 #
AD-D011203 ..... 24 p3903 N84-34714 #
AD-D011204 ..... 24 p3856 N84-34449
AD-D011205 ..... 24 p3852 N84-34433
AD-D011206 ..... 24 p3940 N84-34941
AD-D011209 ..... 24 p3902 N84-34707
AD-D011210 ..... 24 p3911 N84-34766

AD-E000537 ..... 02 p0302 N84-11982 #
AD-E000538 ..... 03 p0360 N84-12345 #
AD-E000540 ..... 04 p0521 N84-13426 #
AD-E000541 ..... 04 p0589 N84-13896 #
AD-E000542 ..... 04 p0520 N84-13420 #
AD-E000543 ..... 06 p0829 N84-15396 #
AD-E000545 ..... 06 p0849 N84-15538 #
AD-E000546 ..... 06 p0785 N84-15140 #
AD-E000546 ..... 06 p0801 N84-15220 #
AD-E000546 ..... 06 p0806 N84-15251 #
AD-E000546 ..... 06 p0823 N84-15365 #
AD-E000546 ..... 06 p0893 N84-15802 #
AD-E000546 ..... 06 p0893 N84-15803* #
AD-E000547 ..... 05 p0749 N84-14919 #
AD-E000548 ..... 08 p1151 N84-17493 #
AD-E000550 ..... 08 p1119 N84-17280 #
AD-E000550 ..... 08 p1138 N84-17399 #
AD-E000550 ..... 08 p1168 N84-17609 #
AD-E000550 ..... 08 p1220 N84-17967 #
AD-E000550 ..... 08 p1220 N84-17968 #
AD-E000550 ..... 08 p1226 N84-18010 #
AD-E000552 ..... 09 p1391 N84-19086 #
AD-E000555 ..... 09 p1385 N84-19046 #
AD-E000556 ..... 09 p1255 N84-18192 #
AD-E000556 ..... 09 p1307 N84-18541 #
AD-E000556 ..... 09 p1314 N84-18586 #
AD-E000556 ..... 09 p1314 N84-18587 #
AD-E000556 ..... 09 p1374 N84-18975 #
AD-E000556 ..... 09 p1374 N84-18976 #
AD-E000556 ..... 09 p1374 N84-18977 #
AD-E000556 ..... 10 p1551 N84-20165 #
AD-E000558 ..... 12 p1908 N84-22430 #
AD-E000559 ..... 11 p1731 N84-21294 #
AD-E000560 ..... 12 p1902 N84-22386 #
AD-E000561 ..... 11 p1692 N84-21033 #
AD-E000561 ..... 11 p1695 N84-21055 #
AD-E000561 ..... 11 p1713 N84-21168 #
AD-E000564 ..... 19 p3077 N84-29520 #
AD-E000565 ..... 19 p3107 N84-29739 #
AD-E000566 ..... 19 p2999 N84-29001 #
AD-E000566 ..... 19 p3005 N84-29045 #
AD-E000567 ..... 19 p3041 N84-29294 #
AD-E000568 ..... 19 p3027 N84-29195 #
AD-E000569 ..... 19 p3005 N84-29046 #
AD-E000570 ..... 19 p3107 N84-29740 #
AD-E000571 ..... 21 p3493 N84-32132 #
AD-E000576 ..... 21 p3400 N84-31567 #
AD-E000580 ..... 23 p3822 N84-34235 #
AD-E000581 ..... 23 p3826 N84-34278 #
AD-E000582 ..... 23 p3815 N84-34194 #
AD-E000583 ..... 23 p3815 N84-34193 #
AD-E001391 ..... 01 p0149 N84-10978 #
AD-E001397 ..... 23 p3824 N84-34252 #
AD-E001556 ..... 05 p0744 N84-14887 #
AD-E001575 ..... 07 p0997 N84-16465 #
AD-E001638 ..... 10 p1422 N84-19296 #
AD-E001638 ..... 10 p1454 N84-19498 #
AD-E001638 ..... 10 p1460 N84-19536 #
AD-E001638 ..... 10 p1468 N84-19585 #
AD-E001638 ..... 10 p1470 N84-19602 #
AD-E001638 ..... 10 p1481 N84-19680 #
AD-E001638 ..... 10 p1517 N84-19934 #
AD-E001638 ..... 10 p1555 N84-20188 #
AD-E001638 ..... 10 p1555 N84-20189 #
AD-E001638 ..... 10 p1555 N84-20190 #
AD-E001638 ..... 10 p1575 N84-20322 #
AD-E001638 ..... 10 p1594 N84-20445 #
AD-E001641 ..... 15 p2410 N84-25465 #
AD-E001642 ..... 10 p1589 N84-20413 #
AD-E001644 ..... 23 p3844 N84-34389 #
AD-E001670 ..... 13 p1986 N84-22896 #
AD-E001718 ..... 20 p3240 N84-30572 #
AD-E300423 ..... 18 p2789 N84-27699 #
AD-E301171 ..... 01 p0066 N84-10432 #
AD-E301203 ..... 03 p0360 N84-12339 #
AD-E301230 ..... 08 p1132 N84-17364 #
AD-E301230 ..... 08 p1145 N84-17451 #
AD-E301230 ..... 08 p1216 N84-17933 #
AD-E301231 ..... 08 p1159 N84-17547 #
AD-E301231 ..... 08 p1195 N84-17793 #
AD-E301231 ..... 08 p1195 N84-17794 #
AD-E301247 ..... 08 p1145 N84-17450 #
AD-E301247 ..... 08 p1195 N84-17792 #
AD-E301247 ..... 08 p1202 N84-17840 #
AD-E301256 ..... 08 p1144 N84-17441 #
AD-E301266 ..... 09 p1345 N84-18784 #
AD-E301284 ..... 10 p1425 N84-19321 #
AD-E301284 ..... 10 p1428 N84-19338 #
AD-E301284 ..... 10 p1436 N84-19385 #
AD-E301284 ..... 10 p1481 N84-19677 #
AD-E301284 ..... 10 p1550 N84-20158 #
AD-E301284 ..... 10 p1563 N84-20242 #
AD-E301284 ..... 10 p1563 N84-20243 #
AD-E301284 ..... 10 p1574 N84-20314 #
AD-E301301 ..... 11 p1683 N84-20983 #
AD-E301319 ..... 11 p1626 N84-20640 #
AD-E301319 ..... 11 p1637 N84-20703 #
AD-E301319 ..... 11 p1652 N84-20785 #
AD-E301319 ..... 11 p1666 N84-20866 #
AD-E301319 ..... 11 p1691 N84-21032 #
AD-E301319 ..... 11 p1694 N84-21054 #
AD-E301319 ..... 11 p1729 N84-21280 #
AD-E301319 ..... 11 p1729 N84-21281 #
AD-E301332 ..... 12 p1807 N84-21781 #
AD-E301333 ..... 12 p1910 N84-22441 #
AD-E301334 ..... 13 p1986 N84-22894 #
AD-E301336 ..... 13 p1983 N84-22873 #
AD-E301345 ..... 14 p2140 N84-23828 #

AD-E301345 ..... 14 p2222 N84-24332 #
AD-E301378 ..... 18 p2811 N84-27847 #
AD-E301388 ..... 19 p3075 N84-29514 #
AD-E301408 ..... 21 p3400 N84-31570 #
AD-E301421 ..... 21 p3353 N84-31268 #
AD-E301443 ..... 24 p3883 N84-34604 #
AD-E301443 ..... 24 p3890 N84-34630 #
AD-E301449 ..... 24 p3901 N84-34701 #
AD-E400961 ..... 22 p3561 N84-32553 #
AD-E400961 ..... 22 p3623 N84-32960 #
AD-E400961 ..... 22 p3625 N84-32971 #
AD-E400961 ..... 22 p3659 N84-33191 #
AD-E401000 ..... 02 p0218 N84-11426 #
AD-E401062 ..... 04 p0506 N84-13319 #
AD-E401062 ..... 04 p0509 N84-13336 #
AD-E401062 ..... 04 p0521 N84-13427 #
AD-E401062 ..... 04 p0569 N84-13750 #
AD-E401062 ..... 04 p0595 N84-13926 #
AD-E401065 ..... 04 p0493 N84-13238 #
AD-E401078 ..... 05 p0654 N84-14299 #
AD-E401078 ..... 05 p0669 N84-14398 #
AD-E401078 ..... 05 p0697 N84-14577 #
AD-E401078 ..... 05 p0754 N84-14944 #
AD-E401101 ..... 09 p1280 N84-18356 #
AD-E401101 ..... 09 p1280 N84-18357 #
AD-E401101 ..... 09 p1369 N84-18935 #
AD-E401101 ..... 09 p1404 N84-19177 #
AD-E401102 ..... 08 p1125 N84-17314 #
AD-E401102 ..... 08 p1145 N84-17455 #
AD-E401102 ..... 08 p1221 N84-17970 #
AD-E401110 ..... 09 p1332 N84-18699 #
AD-E401112 ..... 17 p2619 N84-26758 #
AD-E401117 ..... 15 p2264 N84-24597 #
AD-E401117 ..... 15 p2350 N84-25109 #
AD-E401117 ..... 15 p2405 N84-25435 #
AD-E401117 ..... 15 p2410 N84-25466 #
AD-E401117 ..... 15 p2420 N84-25535 #
AD-E401119 ..... 21 p3326 N84-31102 #
AD-E401119 ..... 21 p3357 N84-31293 #
AD-E401119 ..... 21 p3422 N84-31704 #
AD-E401119 ..... 21 p3472 N84-32002 #
AD-E401119 ..... 21 p3515 N84-32268 #
AD-E401120 ..... 10 p1459 N84-19529 #
AD-E401120 ..... 10 p1459 N84-19530 #
AD-E401120 ..... 10 p1459 N84-19531 #
AD-E401120 ..... 10 p1491 N84-19752 #
AD-E401120 ..... 10 p1570 N84-20285 #
AD-E401120 ..... 10 p1577 N84-20330 #
AD-E401120 ..... 10 p1588 N84-20409 #
AD-E401128 ..... 17 p2764 N84-27556 #
AD-E401136 ..... 13 p1956 N84-22716 #
AD-E401136 ..... 13 p1984 N84-22878 #
AD-E401136 ..... 13 p1993 N84-22938 #
AD-E401136 ..... 13 p2029 N84-23156 #
AD-E401136 ..... 13 p2033 N84-23187 #
AD-E401136 ..... 13 p2041 N84-23240 #
AD-E401136 ..... 13 p2067 N84-23404 #
AD-E401140 ..... 14 p2145 N84-23857 #
AD-E401141 ..... 14 p2132 N84-23779 #
AD-E401166 ..... 17 p2753 N84-27471 #
AD-E401208 ..... 24 p3880 N84-34581 #
AD-E401208 ..... 24 p3888 N84-34624 #
AD-E401208 ..... 24 p3898 N84-34680 #
AD-E401208 ..... 24 p3900 N84-34698 #
AD-E401208 ..... 24 p3938 N84-34927 #
AD-E401208 ..... 24 p3946 N84-34984 #
AD-E401208 ..... 24 p3946 N84-34985 #
AD-E401208 ..... 24 p3946 N84-34986 #
AD-E401216 ..... 24 p3879 N84-34578 #
AD-E440201 ..... 08 p1170 N84-17625 #
AD-E440224 ..... 12 p1797 N84-21725 #
AD-E440224 ..... 12 p1868 N84-22173 #
AD-E440224 ..... 12 p1907 N84-22426 #
AD-E440240 ..... 20 p3281 N84-30828 #
AD-E440241 ..... 20 p3153 N84-30022 #
AD-E440248 ..... 23 p3718 N84-33567 #
AD-E500593 ..... 07 p0992 N84-16431 #
AD-E500602 ..... 10 p1503 N84-19826 #
AD-E500603 ..... 10 p1503 N84-19827 #
AD-E500604 ..... 10 p1504 N84-19828 #
AD-E500605 ..... 10 p1504 N84-19829 #
AD-E500606 ..... 10 p1479 N84-19662 #
AD-E500606 ..... 10 p1503 N84-19825 #
AD-E500606 ..... 10 p1553 N84-20180 #
AD-E500607 ..... 10 p1504 N84-19831 #
AD-E500608 ..... 10 p1504 N84-19833 #
AD-E500609 ..... 10 p1504 N84-19830 #
AD-E500612 ..... 10 p1504 N84-19832 #
AD-E500613 ..... 10 p1504 N84-19836 #
AD-E500614 ..... 10 p1504 N84-19834 #
AD-E500615 ..... 10 p1504 N84-19835 #
AD-E500616 ..... 11 p1666 N84-20867 #
AD-E500617 ..... 11 p1646 N84-20766 #
AD-E500618 ..... 12 p1862 N84-22267 #
AD-E500625 ..... 14 p2156 N84-23919 #
AD-E500628 ..... 14 p2140 N84-23829 #
AD-E500635 ..... 16 p2477 N84-25878 #
AD-E500637 ..... 17 p2606 N84-26696 #
AD-E500637 ..... 17 p2607 N84-26700 #
AD-E500637 ..... 17 p2620 N84-26765 #
AD-E500637 ..... 17 p2721 N84-27322 #
AD-E500637 ..... 17 p2750 N84-27453 #
AD-E500637 ..... 17 p2759 N84-27515 #
AD-E500637 ..... 17 p2759 N84-27516 #
AD-E500637 ..... 17 p2768 N84-27579 #
AD-E500639 ..... 18 p2944 N84-28667 #
AD-E500640 ..... 20 p3129 N84-29873 #
AD-E500641 ..... 20 p3127 N84-29860 #
AD-E500642 ..... 20 p3199 N84-30322 #
AD-E500654 ..... 20 p3129 N84-29874 #
AD-E500655 ..... 19 p3007 N84-29058 #
AD-E500658 ..... 19 p3007 N84-29057 #
AD-E500670 ..... 21 p3343 N84-31211 #
AD-E500672 ..... 24 p3945 N84-34982 #
AD-E500672 ..... 24 p3969 N84-35132 #
AD-E500675 ..... 24 p3942 N84-34958 #
AD-E750159 ..... 10 p1452 N84-19485 #
AD-E750159 ..... 10 p1573 N84-20309 #
AD-E750159 ..... 10 p1573 N84-20310 #
AD-E750174 ..... 10 p1422 N84-19297 #
AD-E750174 ..... 10 p1493 N84-19762 #
AD-E750179 ..... 19 p3062 N84-29429 #
AD-E750179 ..... 19 p3102 N84-29703 #
AD-E750179 ..... 19 p3107 N84-29744 #
AD-E750179 ..... 20 p3202 N84-30338 #
AD-E750179 ..... 20 p3228 N84-30514 #
AD-E750769 ..... 04 p0492 N84-13227 #
AD-E750775 ..... 03 p0341 N84-12215 #
AD-E750775 ..... 03 p0353 N84-12292 #
AD-E750778 ..... 03 p0356 N84-12314 #
AD-E750818 ..... 19 p2970 N84-28821 #
AD-E750818 ..... 19 p3078 N84-29528 #
AD-E750818 ..... 19 p3088 N84-29602 #
AD-E750818 ..... 19 p3116 N84-29800 #
AD-E750824 ..... 13 p2022 N84-23110 #
AD-E750826 ..... 13 p2018 N84-23087 #
AD-E750834 ..... 07 p1080 N84-17023 #
AD-E750837 ..... 03 p0352 N84-12291 #
AD-E750837 ..... 03 p0415 N84-12718 #
AD-E750839 ..... 04 p0507 N84-13320 #
AD-E750839 ..... 04 p0606 N84-13997 #
AD-E750839 ..... 05 p0684 N84-14495 #
AD-E750839 ..... 05 p0711 N84-14658 #
AD-E750844 ..... 06 p0810 N84-15273 #
AD-E750844 ..... 06 p0850 N84-15545 #
AD-E750844 ..... 06 p0894 N84-15805 #
AD-E750844 ..... 07 p1050 N84-16800 #
AD-E750854 ..... 06 p0909 N84-15904 #
AD-E750873 ..... 12 p1806 N84-21772 #
AD-E750873 ..... 12 p1811 N84-21807 #
AD-E750873 ..... 12 p1879 N84-22250 #
AD-E750873 ..... 12 p1880 N84-22251 #
AD-E750873 ..... 12 p1880 N84-22252 #
AD-E750921 ..... 21 p3373 N84-31406 #
AD-E750949 ..... 22 p3559 N84-32540 #
AD-E750949 ..... 22 p3576 N84-32652 #
AD-E750949 ..... 22 p3586 N84-32711 #
AD-E750949 ..... 22 p3674 N84-33287 #
AD-E751074 ..... 23 p3725 N84-33602 #
AD-E751074 ..... 23 p3805 N84-34126 #
AD-E751074 ..... 23 p3828 N84-34280* #
AD-E751074 ..... 23 p3828 N84-34281 #
AD-E751074 ..... 23 p3833 N84-34316 #
AD-E751074 ..... 23 p3834 N84-34317 #
AD-E751074 ..... 23 p3835 N84-34328 #
AD-E751086 ..... 18 p2807 N84-27821 #
AD-E751086 ..... 18 p2830 N84-27966 #
AD-E751086 ..... 18 p2945 N84-28674 #
AD-E751086 ..... 18 p2946 N84-28679 #
AD-E800784 ..... 04 p0509 N84-13338 #
AD-E800784 ..... 04 p0553 N84-13646 #
AD-E800784 ..... 04 p0563 N84-13712 #
AD-E800784 ..... 04 p0563 N84-13713 #
AD-E800784 ..... 04 p0606 N84-13998 #
AD-E800795 ..... 05 p0720 N84-14718 #
AD-E800931 ..... 19 p2959 N84-28754 #
AD-E800931 ..... 19 p2988 N84-28936 #
AD-E800931 ..... 19 p3032 N84-29230 #
AD-E800931 ..... 20 p3250 N84-30627 #
AD-E800940 ..... 20 p3134 N84-29899 #
AD-E800940 ..... 20 p3170 N84-30128 #
AD-E800940 ..... 20 p3183 N84-30227 #
AD-E800940 ..... 20 p3196 N84-30298 #
AD-E800952 ..... 20 p3128 N84-29867 #
AD-E800972 ..... 22 p3599 N84-32793 #
AD-E800972 ..... 22 p3627 N84-32985 #
AD-E850358 ..... 01 p0108 N84-10699 #
AD-E850374 ..... 01 p0107 N84-10698 #
AD-E850381 ..... 01 p0107 N84-10697 #
AD-E850383 ..... 08 p1191 N84-17761 #
AD-E850385 ..... 03 p0411 N84-12689 #
AD-E850386 ..... 03 p0383 N84-12496 #

AD-E850386 ..... 03 p0451 N84-12969 #
AD-E850387 ..... 03 p0349 N84-12268 #
AD-E850387 ..... 03 p0356 N84-12315 #
AD-E850387 ..... 03 p0361 N84-12346 #
AD-E850387 ..... 03 p0361 N84-12347 #
AD-E850387 ..... 03 p0372 N84-12422 #
AD-E850387 ..... 03 p0403 N84-12637 #
AD-E850387 ..... 03 p0411 N84-12690 #
AD-E850387 ..... 03 p0416 N84-12721 #
AD-E850387 ..... 03 p0432 N84-12832* #
AD-E850390 ..... 02 p0256 N84-11674 #
AD-E850392 ..... 02 p0254 N84-11663 #
AD-E850393 ..... 02 p0256 N84-11673 #
AD-E850394 ..... 02 p0255 N84-11672 #
AD-E850395 ..... 02 p0255 N84-11671 #
AD-E850397 ..... 02 p0255 N84-11670 #
AD-E850398 ..... 02 p0255 N84-11669 #
AD-E850399 ..... 01 p0109 N84-10705 #
AD-E850400 ..... 02 p0255 N84-11668 #
AD-E850401 ..... 02 p0255 N84-11667 #
AD-E850402 ..... 02 p0254 N84-11662 #
AD-E850403 ..... 02 p0254 N84-11666 #
AD-E850404 ..... 02 p0254 N84-11665 #
AD-E850405 ..... 04 p0484 N84-13185 #
AD-E850405 ..... 04 p0487 N84-13199 #
AD-E850405 ..... 04 p0499 N84-13272 #
AD-E850405 ..... 04 p0509 N84-13337 #
AD-E850405 ..... 04 p0522 N84-13429 #
AD-E850405 ..... 04 p0522 N84-13430 #
AD-E850405 ..... 04 p0526 N84-13461 #
AD-E850405 ..... 04 p0534 N84-13509 #
AD-E850405 ..... 04 p0549 N84-13617 #
AD-E850405 ..... 04 p0553 N84-13645 #
AD-E850405 ..... 04 p0563 N84-13711 #
AD-E850405 ..... 04 p0568 N84-13742 #
AD-E850405 ..... 04 p0569 N84-13751 #
AD-E850405 ..... 04 p0577 N84-13808 #
AD-E850405 ..... 04 p0585 N84-13862 #
AD-E850405 ..... 04 p0586 N84-13867 #
AD-E850405 ..... 04 p0595 N84-13927 #
AD-E850405 ..... 04 p0604 N84-13989 #
AD-E850405 ..... 04 p0615 N84-14060 #
AD-E850405 ..... 04 p0623 N84-14108 #
AD-E850416 ..... 07 p1036 N84-16723 #
AD-E850416 ..... 07 p1061 N84-16881 #
AD-E850416 ..... 08 p1125 N84-17315 #
AD-E850417 ..... 07 p1036 N84-16724 #
AD-E850418 ..... 07 p1037 N84-16725 #
AD-E850419 ..... 07 p1037 N84-16726 #
AD-E850420 ..... 07 p1037 N84-16727 #
AD-E850421 ..... 07 p1037 N84-16728 #
AD-E850422 ..... 07 p1037 N84-16729 #
AD-E850423 ..... 07 p1038 N84-16730 #
AD-E850424 ..... 07 p1038 N84-16731 #
AD-E850425 ..... 07 p1038 N84-16732 #
AD-E850426 ..... 07 p1038 N84-16733 #
AD-E850427 ..... 07 p1038 N84-16734 #
AD-E850428 ..... 07 p1038 N84-16735 #
AD-E850429 ..... 07 p1039 N84-16736 #
AD-E850486 ..... 11 p1646 N84-20761 #
AD-E850486 ..... 11 p1685 N84-20989 #
AD-E850487 ..... 11 p1685 N84-20990 #
AD-E850488 ..... 11 p1685 N84-20991 #
AD-E850489 ..... 11 p1685 N84-20992 #
AD-E850500 ..... 11 p1685 N84-20993 #
AD-E850501 ..... 11 p1686 N84-20994 #
AD-E850503 ..... 11 p1686 N84-20995 #
AD-E850504 ..... 12 p1860 N84-22121 #
AD-E850506 ..... 11 p1686 N84-20997 #
AD-E850507 ..... 11 p1686 N84-20998 #
AD-E850548 ..... 13 p2017 N84-23075 #
AD-E850549 ..... 14 p2179 N84-24053 #
AD-E850576 ..... 18 p2837 N84-28007 #
AD-E850576 ..... 18 p2926 N84-28557 #
AD-E850597 ..... 14 p2179 N84-24054 #
AD-E850611 ..... 16 p2530 N84-26242 #
AD-E850612 ..... 16 p2530 N84-26243 #
AD-E850613 ..... 16 p2530 N84-26244 #
AD-E850614 ..... 16 p2530 N84-26245 #
AD-E850615 ..... 18 p2890 N84-28343 #
AD-E850622 ..... 16 p2530 N84-26246 #
AD-E850623 ..... 16 p2531 N84-26247 #
AD-E850624 ..... 16 p2531 N84-26248 #
AD-E850625 ..... 16 p2531 N84-26249 #
AD-E850626 ..... 16 p2531 N84-26250 #
AD-E850627 ..... 18 p2890 N84-28342 #
AD-E850686 ..... 23 p3891 N84-33391 #
AD-E850689 ..... 18 p2889 N84-28341 #
AD-E850690 ..... 19 p2988 N84-28932 #
AD-E850690 ..... 19 p3058 N84-29402 #
AD-E900272 ..... 05 p0653 N84-14292 #
AD-E900279 ..... 09 p1271 N84-18306 #
AD-E900294 ..... 10 p1486 N84-19717 #
AD-E900297 ..... 11 p1638 N84-20707 #
AD-E900296 ..... 11 p1639 N84-20713 #
AD-E900298 ..... 11 p1703 N84-21104 #
AD-E900308 ..... 15 p2258 N84-24565 #
AD-E900318 ..... 12 p1820 N84-21867 #
AD-E900330 ..... 14 p2134 N84-23787 #
AD-E900330 ..... 14 p2196 N84-24173 #
AD-E900330 ..... 14 p2228 N84-24360 #
AD-E900330 ..... 14 p2242 N84-24459 #
AD-E900331 ..... 15 p2398 N84-25367 #
AD-E900336 ..... 18 p2814 N84-27865 #
AD-E900355 ..... 20 p3131 N84-29682 #
AD-E950403 ..... 01 p0122 N84-10791 #
AD-E950416 ..... 02 p0218 N84-11427 #
AD-E950417 ..... 02 p0186 N84-11210 #
AD-E950422 ..... 03 p0347 N84-12258 #
AD-E950422 ..... 03 p0379 N84-12465 #
AD-E950425 ..... 05 p0709 N84-14645 #
AD-E950428 ..... 04 p0493 N84-13237 #
AD-E950428 ..... 04 p0525 N84-13456 #
AD-E950428 ..... 04 p0540 N84-13551 #
AD-E950432 ..... 06 p0793 N84-15169 #
AD-E950434 ..... 05 p0738 N84-14847 #
AD-E950445 ..... 06 p0904 N84-15869 #
AD-E950445 ..... 06 p0915 N84-15947 #
AD-E950445 ..... 06 p0915 N84-15948 #
AD-E950445 ..... 06 p0918 N84-15963 #
AD-E950445 ..... 07 p0950 N84-16161 #
AD-E950446 ..... 06 p0904 N84-15870 #
AD-E950446 ..... 06 p0915 N84-15949 #
AD-E950446 ..... 06 p0935 N84-16077 #
AD-E950446 ..... 07 p1050 N84-16799 #
AD-E950457 ..... 08 p1145 N84-17452 #
AD-E950459 ..... 07 p1013 N84-16572 #
AD-E950459 ..... 07 p1040 N84-16742 #
AD-E950459 ..... 07 p1081 N84-17027 #
AD-E950467 ..... 09 p1322 N84-18635 #
AD-E950472 ..... 12 p1772 N84-21558 #
AD-E950472 ..... 12 p1778 N84-21601 #
AD-E950472 ..... 12 p1826 N84-21907 #
AD-E950472 ..... 12 p1860 N84-22120 #
AD-E950472 ..... 12 p1894 N84-22336 #
AD-E950472 ..... 12 p1894 N84-22337 #
AD-E950472 ..... 12 p1914 N84-22469 #
AD-E950472 ..... 13 p2018 N84-23066 #
AD-E950472 ..... 13 p2019 N84-23094 #
AD-E950476 ..... 12 p1768 N84-21532 #
AD-E950486 ..... 13 p2033 N84-23185 #
AD-E950486 ..... 13 p2064 N84-23385 #
AD-E950489 ..... 12 p1773 N84-21563 #
AD-E950499 ..... 14 p2113 N84-23663 #
AD-E950504 ..... 16 p2545 N84-26335 #
AD-E950515 ..... 16 p2446 N84-25689 #
AD-E950517 ..... 16 p2463 N84-25786 #
AD-E950517 ..... 16 p2551 N84-26369 #
AD-E950519 ..... 16 p2456 N84-25751 #
AD-E950524 ..... 18 p2791 N84-27715 #
AD-E950524 ..... 18 p2900 N84-28397 #
AD-E950524 ..... 19 p3075 N84-29510 #
AD-E950526 ..... 18 p2891 N84-28348 #
AD-E950531 ..... 18 p2932 N84-28594 #

AD-F000018 ..... 03 p0320 N84-12093 #
AD-F000018 ..... 03 p0407 N84-12667 #
AD-F000018 ..... 03 p0408 N84-12668 #
AD-F000018 ..... 03 p0410 N84-12686 #
AD-F000018 ..... 03 p0411 N84-12687 #
AD-F000018 ..... 03 p0417 N84-12726 #
AD-F000018 ..... 03 p0430 N84-12820 #
AD-F050087 ..... 10 p1466 N84-19573 #
AD-F050087 ..... 10 p1479 N84-19665 #
AD-F050098 ..... 23 p3820 N84-34224 #
AD-F200054 ..... 05 p0716 N84-14690 #
AD-F300254 ..... 01 p0077 N84-10505 #
AD-F300274 ..... 01 p0004 N84-10027 #
AD-F300277 ..... 01 p0084 N84-10547 #
AD-F300284 ..... 02 p0203 N84-11323 #
AD-F300292 ..... 03 p0338 N84-12194 #
AD-F300295 ..... 03 p0320 N84-12094 #
AD-F300296 ..... 03 p0371 N84-12420 #
AD-F300298 ..... 03 p0420 N84-12744 #
AD-F300304 ..... 05 p0630 N84-14139 #
AD-F300311 ..... 06 p0812 N84-15285 #
AD-F300312 ..... 06 p0801 N84-15221 #
AD-F300314 ..... 06 p0783 N84-15127 #
AD-F300318 ..... 05 p0685 N84-14500 #
AD-F300321 ..... 05 p0627 N84-14126 #
AD-F300322 ..... 05 p0680 N84-14472 #
AD-F300324 ..... 05 p0661 N84-14346 #
AD-F300328 ..... 05 p0658 N84-14326 #
AD-F300328 ..... 05 p0666 N84-14382 #
AD-F300328 ..... 05 p0708 N84-14638 #
AD-F300330 ..... 05 p0627 N84-14125 #
AD-F300330 ..... 06 p0884 N84-15751 #
AD-F300330 ..... 06 p0884 N84-15752 #
AD-F300332 ..... 09 p1253 N84-18177 #
AD-F300338 ..... 07 p1070 N84-16951 #
AD-F300338 ..... 07 p1080 N84-17022 #
AD-F300339 ..... 08 p1159 N84-17546 #

AD-F300341 ..... 08 p1099 N84-17150 #
AD-F300344 ..... 08 p1164 N84-17579 #
AD-F300347 ..... 08 p1152 N84-17499 #
AD-F300350 ..... 09 p1252 N84-18176 #
AD-F300360 ..... 09 p1325 N84-18657 #
AD-F300380 ..... 09 p1371 N84-18955 #
AD-F300362 ..... 10 p1491 N84-19753 #
AD-F300363 ..... 10 p1420 N84-19289 #
AD-F300369 ..... 11 p1629 N84-20658 #
AD-F300370 ..... 11 p1638 N84-20706 #
AD-F300371 ..... 11 p1653 N84-20791 #
AD-F300374 ..... 11 p1653 N84-20792 #
AD-F300376 ..... 11 p1622 N84-20615 #
AD-F300380 ..... 11 p1728 N84-21271 #
AD-F300387 ..... 13 p1964 N84-22758 #
AD-F300387 ..... 13 p1986 N84-22895 #
AD-F300387 ..... 14 p2186 N84-24097 #
AD-F300388 ..... 14 p2101 N84-23610 #
AD-F300396 ..... 15 p2303 N84-24821 #
AD-F300398 ..... 17 p2758 N84-27506 #
AD-F300402 ..... 16 p2547 N84-26344 #
AD-F300405 ..... 16 p2502 N84-26061 #
AD-F300408 ..... 16 p2502 N84-26059 #
AD-F300408 ..... 16 p2551 N84-26366 #
AD-F300411 ..... 17 p2610 N84-26709 #
AD-F300411 ..... 17 p2763 N84-27549 #
AD-F300413 ..... 17 p2668 N84-27011 #
AD-F300417 ..... 17 p2760 N84-27526 #
AD-F300417 ..... 17 p2768 N84-27576 #
AD-F300426 ..... 19 p3023 N84-29173 #
AD-F300432 ..... 19 p2983 N84-28902 #
AD-F300432 ..... 19 p3036 N84-29260 #
AD-F300432 ..... 19 p3072 N84-29490 #
AD-F300432 ..... 19 p3101 N84-29701 #
AD-F300434 ..... 20 p3162 N84-30079 #
AD-F300436 ..... 23 p3747 N84-33752 #
AD-F300438 ..... 22 p3531 N84-32359 #
AD-F300439 ..... 22 p3532 N84-32360 #
AD-F300440 ..... 22 p3532 N84-32361 #
AD-F500165 ..... 01 p0070 N84-10458 #
AD-F500168 ..... 01 p0095 N84-10619 #
AD-F500172 ..... 01 p0037 N84-10233 #
AD-F500174 ..... 01 p0052 N84-10338 #
AD-F500192 ..... 02 p0203 N84-11322 #
AD-F500193 ..... 03 p0371 N84-12419 #
AD-F500197 ..... 04 p0596 N84-13935 #
AD-F830004 ..... 12 p1895 N84-22342 #
AD-F830031 ..... 05 p0626 N84-14115 #
AD-F830031 ..... 05 p0644 N84-14237 #
AD-F830031 ..... 05 p0655 N84-14305 #
AD-F830031 ..... 05 p0670 N84-14407 #
AD-F830036 ..... 04 p0623 N84-14107 #
AD-F830042 ..... 07 p0994 N84-16442 #
AD-F830042 ..... 07 p1010 N84-16550 #
AD-F830051 ..... 04 p0484 N84-13184 #
AD-F830051 ..... 04 p0506 N84-13316 #
AD-F830051 ..... 04 p0526 N84-13457 #
AD-F830051 ..... 04 p0580 N84-13826 #
AD-F830051 ..... 04 p0590 N84-13897 #
AD-F830051 ..... 04 p0590 N84-13898 #
AD-F830051 ..... 04 p0605 N84-13996 #
AD-F830051 ..... 04 p0612 N84-14042 #
AD-F830058 ..... 03 p0403 N84-12636 #
AD-F830058 ..... 03 p0418 N84-12732* #
AD-F830058 ..... 03 p0476 N84-13135 #
AD-F830166 ..... 08 p1203 N84-17841 #
AD-F830334 ..... 20 p3178 N84-30188 #
AD-F830334 ..... 20 p3284 N84-30851 #

AD-P002100 ..... 16 p2521 N84-26186 #
AD-P002101 ..... 16 p2521 N84-26187 #
AD-P002102 ..... 16 p2521 N84-26188 #
AD-P002103 ..... 16 p2522 N84-26189* #
AD-P002104 ..... 16 p2522 N84-26190* #
AD-P002105 ..... 16 p2522 N84-26191* #
AD-P002106 ..... 16 p2522 N84-26192* #
AD-P002107 ..... 16 p2522 N84-26193* #
AD-P002108 ..... 16 p2522 N84-26194 #
AD-P002109 ..... 16 p2523 N84-26195 #
AD-P002110 ..... 16 p2523 N84-26196 #
AD-P002111 ..... 16 p2523 N84-26197 #
AD-P002112 ..... 16 p2523 N84-26198 #
AD-P002113 ..... 16 p2523 N84-26199 #
AD-P002114 ..... 16 p2523 N84-26200 #
AD-P002115 ..... 16 p2523 N84-26201 #
AD-P002116 ..... 16 p2524 N84-26202 #
AD-P002117 ..... 16 p2524 N84-26203 #
AD-P002118 ..... 16 p2524 N84-26204 #
AD-P002119 ..... 16 p2524 N84-26205 #
AD-P002120 ..... 16 p2524 N84-26206 #
AD-P002121 ..... 16 p2524 N84-26207 #
AD-P002122 ..... 16 p2524 N84-26208 #
AD-P002123 ..... 16 p2525 N84-26209* #
AD-P002124 ..... 16 p2525 N84-26210* #
AD-P002125 ..... 16 p2525 N84-26211 #
AD-P002126 ..... 16 p2525 N84-26212 #
AD-P002127 ..... 16 p2525 N84-26213 #
AD-P002128 ..... 16 p2525 N84-26214 #
AD-P002145 ..... 14 p2137 N84-23810 #
AD-P002146 ..... 14 p2137 N84-23811 #
AD-P002147 ..... 14 p2137 N84-23812 #
AD-P002148 ..... 14 p2137 N84-23813 #
AD-P002149 ..... 14 p2137 N84-23814 #
AD-P002150 ..... 14 p2138 N84-23815 #
AD-P002151 ..... 14 p2138 N84-23816 #
AD-P002152 ..... 14 p2138 N84-23817 #
AD-P002153 ..... 14 p2138 N84-23818 #
AD-P002154 ..... 14 p2138 N84-23819 #
AD-P002155 ..... 14 p2138 N84-23820 #
AD-P002156 ..... 14 p2139 N84-23821 #
AD-P002157 ..... 14 p2139 N84-23823 #
AD-P002158 ..... 14 p2139 N84-23824 #
AD-P002159 ..... 14 p2139 N84-23825 #
AD-P002325 ..... 14 p2189 N84-24116 #
AD-P002326 ..... 14 p2189 N84-24117 #
AD-P002327 ..... 14 p2189 N84-24118 #
AD-P002328 ..... 14 p2189 N84-24119 #
AD-P002329 ..... 14 p2189 N84-24120 #
AD-P002330 ..... 14 p2189 N84-24121 #
AD-P002331 ..... 14 p2190 N84-24122 #
AD-P002332 ..... 14 p2190 N84-24123 #
AD-P002333 ..... 14 p2190 N84-24124 #
AD-P002334 ..... 14 p2190 N84-24125 #
AD-P002335 ..... 14 p2190 N84-24126 #
AD-P002336 ..... 14 p2190 N84-24127 #
AD-P002337 ..... 14 p2190 N84-24128 #
AD-P002338 ..... 14 p2190 N84-24129 #
AD-P002339 ..... 14 p2191 N84-24130 #
AD-P002340 ..... 14 p2191 N84-24131 #
AD-P002341 ..... 14 p2191 N84-24132 #
AD-P002342 ..... 14 p2191 N84-24133 #
AD-P002343 ..... 14 p2191 N84-24134 #
AD-P002344 ..... 14 p2191 N84-24135 #
AD-P002345 ..... 14 p2191 N84-24136 #
AD-P002346 ..... 14 p2191 N84-24137 #
AD-P002347 ..... 14 p2192 N84-24138 #
AD-P002348 ..... 14 p2192 N84-24139 #
AD-P002349 ..... 14 p2192 N84-24140 #
AD-P002350 ..... 14 p2192 N84-24141 #
AD-P002351 ..... 14 p2192 N84-24142 #
AD-P002352 ..... 14 p2192 N84-24143 #
AD-P002353 ..... 14 p2192 N84-24144 #
AD-P002354 ..... 14 p2192 N84-24145 #
AD-P002355 ..... 14 p2192 N84-24146 #
AD-P002356 ..... 14 p2193 N84-24147 #
AD-P002357 ..... 14 p2193 N84-24148 #
AD-P002358 ..... 14 p2193 N84-24149 #
AD-P002359 ..... 14 p2193 N84-24150 #
AD-P002360 ..... 14 p2193 N84-24151 #
AD-P002361 ..... 14 p2193 N84-24152 #
AD-P002362 ..... 14 p2193 N84-24153 #
AD-P002363 ..... 14 p2193 N84-24154 #
AD-P002364 ..... 14 p2194 N84-24155 #
AD-P002365 ..... 14 p2194 N84-24156 #
AD-P002366 ..... 14 p2194 N84-24157 #
AD-P002367 ..... 14 p2194 N84-24158 #
AD-P002368 ..... 14 p2194 N84-24159 #
AD-P002369 ..... 14 p2194 N84-24160 #
AD-P002370 ..... 14 p2194 N84-24161 #
AD-P002371 ..... 14 p2195 N84-24162 #
AD-P002372 ..... 14 p2195 N84-24163 #
AD-P002373 ..... 14 p2195 N84-24164 #
AD-P002374 ..... 14 p2195 N84-24165 #
AD-P002375 ..... 14 p2195 N84-24166 #
AD-P002376 ..... 14 p2195 N84-24167 #
AD-P002377 ..... 14 p2195 N84-24168 #
AD-P002378 ..... 14 p2195 N84-24169 #
AD-P002379 ..... 14 p2196 N84-24170 #
AD-P002380 ..... 14 p2196 N84-24171 #
AD-P002381 ..... 14 p2196 N84-24172 #
AD-P002650 ..... 11 p1689 N84-21015 #
AD-P002651 ..... 11 p1689 N84-21016 #
AD-P002652 ..... 11 p1689 N84-21017 #
AD-P002653 ..... 11 p1689 N84-21018 #
AD-P002654 ..... 11 p1690 N84-21019 #
AD-P002655 ..... 11 p1690 N84-21020 #
AD-P002656 ..... 11 p1690 N84-21021 #
AD-P002657 ..... 11 p1690 N84-21022 #
AD-P002658 ..... 11 p1690 N84-21023 #
AD-P002659 ..... 11 p1690 N84-21024 #
AD-P002660 ..... 11 p1690 N84-21025 #
AD-P002661 ..... 11 p1691 N84-21026 #
AD-P002662 ..... 11 p1691 N84-21027 #
AD-P002663 ..... 11 p1691 N84-21028 #
AD-P002664 ..... 11 p1691 N84-21029 #
AD-P002665 ..... 11 p1691 N84-21030 #
AD-P002666 ..... 11 p1691 N84-21031 #
AD-P002673 ..... 11 p1657 N84-20810 #
AD-P002674 ..... 11 p1657 N84-20811 #
AD-P002675 ..... 11 p1657 N84-20812 #
AD-P002676 ..... 11 p1657 N84-20813 #
AD-P002677 ..... 11 p1657 N84-20814 #

AD-P002678 ..... 11 p1658 N84-20815 #
AD-P002679 ..... 11 p1658 N84-20816 #
AD-P002680 ..... 11 p1658 N84-20817 #
AD-P002681 ..... 11 p1658 N84-20818 #
AD-P002682 ..... 11 p1658 N84-20819 #
AD-P002683 ..... 11 p1658 N84-20820 #
AD-P002686 ..... 11 p1658 N84-20821 #
AD-P002687 ..... 11 p1659 N84-20822 #
AD-P002688 ..... 11 p1659 N84-20823 #
AD-P002689 ..... 11 p1659 N84-20824 #
AD-P002690 ..... 11 p1659 N84-20825 #
AD-P002691 ..... 11 p1659 N84-20826 #
AD-P002692 ..... 11 p1660 N84-20827 #
AD-P002693 ..... 11 p1660 N84-20828 #
AD-P002694 ..... 11 p1660 N84-20829 #
AD-P002747 ..... 13 p2049 N84-23294 #
AD-P002748 ..... 13 p2049 N84-23295 #
AD-P002749 ..... 13 p2050 N84-23296 #
AD-P002750 ..... 13 p2050 N84-23297 #
AD-P002751 ..... 13 p2050 N84-23298 #
AD-P002752 ..... 13 p2050 N84-23299 #
AD-P002753 ..... 13 p2050 N84-23300 #
AD-P002754 ..... 13 p2051 N84-23301 #
AD-P002755 ..... 13 p2051 N84-23302 #
AD-P002756 ..... 13 p2051 N84-23303 #
AD-P002757 ..... 13 p2051 N84-23304 #
AD-P002758 ..... 13 p2051 N84-23305 #
AD-P002759 ..... 13 p2051 N84-23306 #
AD-P002760 ..... 13 p2052 N84-23307 #
AD-P002761 ..... 13 p2052 N84-23308 #
AD-P002762 ..... 13 p2052 N84-23309 #
AD-P002763 ..... 13 p2052 N84-23310 #
AD-P002764 ..... 13 p2052 N84-23311 #
AD-P002765 ..... 13 p2052 N84-23312 #
AD-P002766 ..... 13 p2052 N84-23313 #
AD-P002767 ..... 13 p2053 N84-23314 #
AD-P002768 ..... 13 p2053 N84-23315* #
AD-P002769 ..... 13 p2053 N84-23316 #
AD-P002770 ..... 13 p2053 N84-23317 #
AD-P002771 ..... 13 p2053 N84-23318 #
AD-P002772 ..... 13 p2053 N84-23319 #
AD-P002773 ..... 13 p2053 N84-23320 #
AD-P002774 ..... 13 p2054 N84-23321 #
AD-P002775 ..... 13 p2054 N84-23322 #
AD-P002776 ..... 13 p2054 N84-23323 #
AD-P002777 ..... 13 p2054 N84-23324 #
AD-P002778 ..... 13 p2054 N84-23325 #
AD-P002779 ..... 13 p2054 N84-23326 #
AD-P002780 ..... 13 p2055 N84-23327 #
AD-P002781 ..... 13 p2055 N84-23328 #
AD-P002782 ..... 13 p2055 N84-23329 #
AD-P002783 ..... 13 p2055 N84-23330 #
AD-P002784 ..... 13 p2055 N84-23331 #
AD-P002785 ..... 13 p2055 N84-23332 #
AD-P002786 ..... 13 p2056 N84-23333 #
AD-P002787 ..... 13 p2056 N84-23334 #
AD-P002788 ..... 13 p2056 N84-23335 #
AD-P002789 ..... 13 p2056 N84-23336 #
AD-P002790 ..... 13 p2056 N84-23337 #
AD-P002791 ..... 13 p2056 N84-23338 #
AD-P002792 ..... 13 p2057 N84-23339 #
AD-P002793 ..... 13 p2057 N84-23340 #
AD-P002795 ..... 13 p2057 N84-23341 #
AD-P002796 ..... 13 p2057 N84-23342 #
AD-P002797 ..... 13 p2057 N84-23343 #
AD-P002798 ..... 13 p2057 N84-23344 #
AD-P002799 ..... 13 p2058 N84-23345 #
AD-P002800 ..... 13 p2058 N84-23346 #
AD-P002801 ..... 13 p2058 N84-23347 #
AD-P002802 ..... 13 p2058 N84-23348 #
AD-P002803 ..... 13 p2058 N84-23349 #
AD-P002804 ..... 13 p2058 N84-23350 #
AD-P002805 ..... 13 p2058 N84-23351 #
AD-P002806 ..... 13 p2059 N84-23352 #
AD-P002807 ..... 13 p2059 N84-23353 #
AD-P002808 ..... 13 p2059 N84-23354 #
AD-P002809 ..... 13 p2059 N84-23355 #
AD-P002810 ..... 13 p2059 N84-23356 #
AD-P002811 ..... 13 p2059 N84-23357 #
AD-P002812 ..... 13 p2060 N84-23358 #
AD-P002813 ..... 13 p2060 N84-23359 #
AD-P002814 ..... 13 p2060 N84-23360 #
AD-P002816 ..... 13 p2060 N84-23361 #
AD-P002817 ..... 13 p2060 N84-23362 #
AD-P002818 ..... 13 p2060 N84-23363 #
AD-P002819 ..... 13 p2061 N84-23364 #
AD-P002820 ..... 13 p2061 N84-23365 #
AD-P002821 ..... 13 p2061 N84-23366 #
AD-P002822 ..... 13 p2061 N84-23367 #
AD-P002823 ..... 13 p2061 N84-23368 #
AD-P002824 ..... 13 p2061 N84-23369 #
AD-P002825 ..... 13 p2062 N84-23370 #
AD-P002826 ..... 13 p2062 N84-23371 #
AD-P002827 ..... 13 p2062 N84-23372 #
AD-P002828 ..... 13 p2062 N84-23373 #
AD-P002829 ..... 13 p2062 N84-23374 #
AD-P002830 ..... 13 p2062 N84-23375 #
AD-P002831 ..... 13 p2063 N84-23376 #
AD-P002832 ..... 13 p2063 N84-23377 #
AD-P002833 ..... 13 p2063 N84-23378 #
AD-P002834 ..... 13 p2063 N84-23379 #
AD-P002835 ..... 13 p2063 N84-23380 #
AD-P002836 ..... 13 p2063 N84-23381 #
AD-P002837 ..... 13 p2063 N84-23382 #
AD-P002838 ..... 13 p2064 N84-23383 #
AD-P002875 ..... 13 p1977 N84-22836 #
AD-P002876 ..... 13 p1977 N84-22837 #
AD-P002877 ..... 13 p1978 N84-22838 #
AD-P002878 ..... 13 p1978 N84-22839 #
AD-P002879 ..... 13 p1978 N84-22840 #
AD-P002880 ..... 13 p1978 N84-22841 #
AD-P002881 ..... 13 p1978 N84-22842 #
AD-P002882 ..... 13 p1978 N84-22843 #
AD-P002883 ..... 13 p1978 N84-22844 #
AD-P002884 ..... 13 p1979 N84-22845 #
AD-P002885 ..... 13 p1979 N84-22846 #
AD-P002886 ..... 13 p1979 N84-22847 #
AD-P002887 ..... 13 p1979 N84-22848 #
AD-P002888 ..... 13 p1979 N84-22849 #
AD-P002889 ..... 13 p1979 N84-22850 #
AD-P002890 ..... 13 p1979 N84-22851 #
AD-P002891 ..... 13 p1980 N84-22852 #
AD-P002892 ..... 13 p1980 N84-22853 #
AD-P002894 ..... 13 p1980 N84-22854 #
AD-P002895 ..... 13 p1980 N84-22855 #
AD-P002897 ..... 13 p1980 N84-22856 #
AD-P002898 ..... 13 p1980 N84-22857 #
AD-P002899 ..... 13 p1981 N84-22858 #
AD-P002901 ..... 13 p1981 N84-22859 #
AD-P002906 ..... 13 p1981 N84-22860 #
AD-P002909 ..... 13 p1981 N84-22861 #
AD-P002910 ..... 13 p1981 N84-22862 #
AD-P002912 ..... 13 p1981 N84-22863 #
AD-P002913 ..... 13 p1981 N84-22864 #
AD-P002934 ..... 14 p2196 N84-24174 #
AD-P002935 ..... 14 p2196 N84-24175 #
AD-P002936 ..... 14 p2196 N84-24176 #
AD-P002937 ..... 14 p2196 N84-24177 #
AD-P002938 ..... 14 p2197 N84-24178 #
AD-P002939 ..... 14 p2197 N84-24179 #
AD-P002940 ..... 14 p2197 N84-24180* #
AD-P002941 ..... 14 p2197 N84-24181 #
AD-P002942 ..... 14 p2197 N84-24182 #
AD-P002943 ..... 14 p2197 N84-24183 #
AD-P002944 ..... 14 p2197 N84-24184 #
AD-P002945 ..... 14 p2198 N84-24185 #
AD-P002946 ..... 14 p2198 N84-24186 #
AD-P002947 ..... 14 p2198 N84-24187 #
AD-P002948 ..... 14 p2198 N84-24188 #
AD-P002949 ..... 14 p2198 N84-24189 #
AD-P002950 ..... 14 p2198 N84-24190 #
AD-P002951 ..... 14 p2199 N84-24191 #
AD-P002952 ..... 14 p2199 N84-24192 #
AD-P002953 ..... 14 p2199 N84-24193 #
AD-P002954 ..... 14 p2199 N84-24194 #
AD-P002955 ..... 14 p2199 N84-24195 #
AD-P002956 ..... 14 p2199 N84-24196 #
AD-P002957 ..... 14 p2199 N84-24197 #
AD-P002958 ..... 14 p2200 N84-24198 #
AD-P002959 ..... 14 p2200 N84-24199 #
AD-P002960 ..... 14 p2200 N84-24200 #
AD-P002961 ..... 14 p2200 N84-24201 #
AD-P002962 ..... 14 p2200 N84-24202 #
AD-P002963 ..... 14 p2200 N84-24203 #
AD-P002966 ..... 14 p2200 N84-24204 #
AD-P002968 ..... 14 p2201 N84-24205 #
AD-P002970 ..... 14 p2201 N84-24206 #
AD-P002971 ..... 14 p2201 N84-24207 #
AD-P002972 ..... 14 p2201 N84-24208 #
AD-P002973 ..... 14 p2201 N84-24209 #
AD-P002974 ..... 14 p2201 N84-24210 #
AD-P002975 ..... 14 p2201 N84-24211 #
AD-P002976 ..... 14 p2201 N84-24212 #
AD-P002977 ..... 14 p2202 N84-24213 #
AD-P002978 ..... 14 p2202 N84-24214 #
AD-P002979 ..... 14 p2202 N84-24215 #
AD-P002980 ..... 14 p2202 N84-24216* #
AD-P003102 ..... 16 p2466 N84-25807 #
AD-P003103 ..... 16 p2466 N84-25808 #
AD-P003104 ..... 16 p2467 N84-25809 #
AD-P003105 ..... 16 p2467 N84-25810 #
AD-P003106 ..... 16 p2467 N84-25811 #
AD-P003107 ..... 16 p2467 N84-25812 #
AD-P003108 ..... 16 p2467 N84-25813 #
AD-P003109 ..... 16 p2467 N84-25814 #
AD-P003110 ..... 16 p2468 N84-25815 #
AD-P003111 ..... 16 p2468 N84-25816 #
AD-P003112 ..... 16 p2468 N84-25817 #
AD-P003113 ..... 16 p2468 N84-25818 #
AD-P003114 ..... 16 p2468 N84-25819 #
AD-P003115 ..... 16 p2468 N84-25820 #
AD-P003116 ..... 16 p2469 N84-25821 #

AD-P003117 16 p2532 N84-26258 #
AD-P003118 16 p2532 N84-26259 #
AD-P003119 16 p2533 N84-26260 #
AD-P003120 16 p2533 N84-26261 #
AD-P003121 16 p2533 N84-26262* #
AD-P003122 16 p2533 N84-26263 #
AD-P003123 16 p2533 N84-26264 #
AD-P003124 16 p2533 N84-26265 #
AD-P003125 16 p2534 N84-26266 #
AD-P003126 16 p2534 N84-26267 #
AD-P003157 17 p2588 N84-26588 #
AD-P003158 17 p2588 N84-26589 #
AD-P003159 17 p2588 N84-26590 #
AD-P003160 17 p2588 N84-26591 #
AD-P003161 17 p2588 N84-26592 #
AD-P003162 17 p2589 N84-26593 #
AD-P003163 17 p2589 N84-26594 #
AD-P003164 17 p2589 N84-26595 #
AD-P003184 17 p2589 N84-26597 #
AD-P003185 17 p2589 N84-26598 #
AD-P003186 17 p2590 N84-26599 #
AD-P003187 17 p2590 N84-26600 #
AD-P003188 17 p2590 N84-26601 #
AD-P003189 17 p2590 N84-26602 #
AD-P003190 17 p2590 N84-26603 #
AD-P003191 17 p2590 N84-26604 #
AD-P003192 17 p2591 N84-26605 #
AD-P003193 17 p2591 N84-26606 #
AD-P003194 17 p2591 N84-26607 #
AD-P003195 17 p2591 N84-26608 #
AD-P003196 17 p2591 N84-26609 #
AD-P003197 17 p2591 N84-26610 #
AD-P003198 17 p2592 N84-26611 #
AD-P003199 17 p2592 N84-26612 #
AD-P003200 17 p2592 N84-26613 #
AD-P003201 17 p2592 N84-26614 #
AD-P003202 17 p2592 N84-26615 #
AD-P003203 17 p2592 N84-26616 #
AD-P003204 17 p2592 N84-26617 #
AD-P003205 17 p2593 N84-26618 #
AD-P003206 17 p2593 N84-26619 #
AD-P003207 17 p2593 N84-26620 #
AD-P003208 17 p2593 N84-26621 #
AD-P003209 17 p2593 N84-26622 #
AD-P003210 17 p2593 N84-26623 #
AD-P003211 17 p2594 N84-26624 #
AD-P003212 17 p2594 N84-26625 #
AD-P003213 17 p2594 N84-26626 #
AD-P003214 17 p2594 N84-26627 #
AD-P003215 17 p2594 N84-26628 #
AD-P003216 17 p2594 N84-26629 #
AD-P003217 17 p2595 N84-26630 #
AD-P003218 17 p2595 N84-26631 #
AD-P003219 17 p2595 N84-26632 #
AD-P003220 17 p2595 N84-26633 #
AD-P003221 17 p2595 N84-26634 #
AD-P003222 17 p2595 N84-26635 #
AD-P003223 17 p2596 N84-26636 #
AD-P003224 17 p2596 N84-26637 #
AD-P003225 17 p2596 N84-26638 #
AD-P003226 17 p2596 N84-26639 #
AD-P003227 17 p2596 N84-26640 #
AD-P003228 17 p2596 N84-26641 #
AD-P003229 17 p2596 N84-26642 #
AD-P003230 17 p2597 N84-26643 #
AD-P003231 17 p2597 N84-26644 #
AD-P003232 17 p2597 N84-26645 #
AD-P003233 17 p2597 N84-26646 #
AD-P003234 17 p2597 N84-26647 #
AD-P003235 17 p2597 N84-26648 #
AD-P003236 17 p2598 N84-26649 #
AD-P003237 18 p2902 N84-28404 #
AD-P003238 18 p2902 N84-28405 #
AD-P003239 18 p2902 N84-28406 #
AD-P003240 18 p2903 N84-28407 #
AD-P003241 18 p2903 N84-28408 #
AD-P003242 18 p2903 N84-28409 #
AD-P003243 18 p2903 N84-28410 #
AD-P003244 18 p2903 N84-28411 #
AD-P003245 18 p2903 N84-28412 #
AD-P003246 18 p2904 N84-28413 #
AD-P003247 18 p2904 N84-28414 #
AD-P003248 18 p2904 N84-28415 #
AD-P003249 18 p2904 N84-28416 #
AD-P003250 18 p2904 N84-28417 #
AD-P003251 18 p2904 N84-28418 #
AD-P003252 18 p2905 N84-28419 #
AD-P003253 18 p2905 N84-28420 #
AD-P003254 18 p2905 N84-28421 #
AD-P003255 18 p2905 N84-28422 #
AD-P003256 18 p2905 N84-28423 #
AD-P003257 18 p2905 N84-28424 #
AD-P003258 18 p2905 N84-28425 #
AD-P003259 18 p2906 N84-28426 #
AD-P003260 18 p2906 N84-28427 #
AD-P003261 18 p2906 N84-28428 #
AD-P003262 18 p2906 N84-28429 #
AD-P003264 18 p2906 N84-28430 #
AD-P003266 18 p2906 N84-28431 #
AD-P003267 18 p2907 N84-28432 #
AD-P003268 18 p2907 N84-28433 #
AD-P003269 18 p2907 N84-28434 #
AD-P003270 18 p2907 N84-28435 #
AD-P003271 18 p2907 N84-28436 #
AD-P003272 18 p2907 N84-28437 #
AD-P003273 18 p2907 N84-28438 #
AD-P003283 18 p2907 N84-28439 #
AD-P003286 18 p2908 N84-28440 #
AD-P003290 18 p2908 N84-28441 #
AD-P003292 18 p2908 N84-28442 #
AD-P003293 18 p2908 N84-28443 #
AD-P003294 18 p2908 N84-28444 #
AD-P003295 18 p2908 N84-28445 #
AD-P003299 18 p2908 N84-28446 #
AD-P003300 18 p2909 N84-28447 #
AD-P003303 18 p2909 N84-28448 #
AD-P003307 18 p2909 N84-28449 #
AD-P003309 18 p2909 N84-28450 #
AD-P003310 18 p2909 N84-28451 #
AD-P003313 18 p2909 N84-28452 #
AD-P003314 18 p2909 N84-28453 #
AD-P003315 18 p2910 N84-28454 #
AD-P003319 18 p2910 N84-28455 #
AD-P003320 18 p2910 N84-28456 #
AD-P003321 18 p2910 N84-28457 #
AD-P003322 18 p2910 N84-28458 #
AD-P003323 18 p2910 N84-28459 #
AD-P003329 18 p2911 N84-28460 #
AD-P003337 18 p2911 N84-28461 #
AD-P003338 18 p2911 N84-28462 #
AD-P003340 18 p2911 N84-28463 #
AD-P003343 18 p2911 N84-28464 #
AD-P003345 18 p2911 N84-28465 #
AD-P003347 18 p2912 N84-28466 #
AD-P003349 18 p2912 N84-28467 #
AD-P003351 18 p2912 N84-28468 #
AD-P003353 18 p2912 N84-28469 #
AD-P003354 18 p2912 N84-28470 #
AD-P003355 18 p2912 N84-28471 #
AD-P003359 18 p2912 N84-28472 #
AD-P003360 18 p2913 N84-28473 #
AD-P003361 18 p2913 N84-28474 #
AD-P003362 18 p2913 N84-28475 #
AD-P003363 18 p2913 N84-28476 #
AD-P003364 18 p2913 N84-28477 #
AD-P003365 18 p2913 N84-28478 #
AD-P003366 18 p2913 N84-28479 #
AD-P003368 18 p2914 N84-28480 #
AD-P003401 19 p3014 N84-29105 #
AD-P003402 19 p3014 N84-29106 #
AD-P003403 19 p3014 N84-29107 #
AD-P003404 19 p3014 N84-29108 #
AD-P003405 19 p3014 N84-29109 #
AD-P003406 19 p3015 N84-29110 #
AD-P003407 19 p3015 N84-29111 #
AD-P003408 19 p3015 N84-29112 #
AD-P003409 19 p3015 N84-29113 #
AD-P003410 19 p3015 N84-29114 #
AD-P003411 19 p3015 N84-29115 #
AD-P003412 19 p3015 N84-29116 #
AD-P003413 19 p3016 N84-29117 #
AD-P003414 20 p3269 N84-30746 #
AD-P003415 20 p3269 N84-30747 #
AD-P003416 20 p3269 N84-30748 #
AD-P003417 20 p3270 N84-30749 #
AD-P003418 20 p3270 N84-30750 #
AD-P003419 20 p3270 N84-30751 #
AD-P003420 20 p3270 N84-30752 #
AD-P003421 20 p3270 N84-30753 #
AD-P003422 20 p3270 N84-30754 #
AD-P003423 20 p3270 N84-30755 #
AD-P003424 20 p3270 N84-30756 #
AD-P003425 20 p3271 N84-30757 #
AD-P003426 20 p3271 N84-30758 #
AD-P003427 20 p3271 N84-30759 #
AD-P003428 20 p3271 N84-30760 #
AD-P003429 20 p3271 N84-30761 #
AD-P003430 20 p3271 N84-30762 #
AD-P003431 20 p3271 N84-30763 #
AD-P003432 20 p3272 N84-30764 #
AD-P003433 20 p3272 N84-30765 #
AD-P003447 21 p3508 N84-32224 #
AD-P003448 21 p3508 N84-32225 #
AD-P003449 21 p3508 N84-32226 #
AD-P003450 21 p3508 N84-32227 #
AD-P003451 21 p3509 N84-32228 #
AD-P003452 21 p3509 N84-32229 #
AD-P003453 21 p3509 N84-32230 #
AD-P003454 21 p3509 N84-32231 #
AD-P003455 21 p3509 N84-32232 #
AD-P003456 21 p3509 N84-32233 #
AD-P003457 21 p3510 N84-32234 #

AD-P003458 ..... 21 p3510 N84-32235 #
AD-P003459 ..... 21 p3510 N84-32236 #
AD-P003460 ..... 21 p3510 N84-32237 #
AD-P003461 ..... 21 p3510 N84-32238 #
AD-P003462 ..... 21 p3510 N84-32239 #
AD-P003463 ..... 21 p3511 N84-32240 #
AD-P003464 ..... 21 p3511 N84-32241 #
AD-P003465 ..... 21 p3511 N84-32242 #
AD-P003468 ..... 21 p3511 N84-32243 #
AD-P003469 ..... 21 p3511 N84-32244 #
AD-P003470 ..... 21 p3512 N84-32245 #
AD-P003474 ..... 21 p3512 N84-32246 #
AD-P003480 ..... 21 p3512 N84-32247 #
AD-P003481 ..... 21 p3512 N84-32248 #
AD-P003482 ..... 21 p3512 N84-32249 #
AD-P003483 ..... 21 p3512 N84-32250 #
AD-P003484 ..... 21 p3513 N84-32251 #
AD-P003485 ..... 21 p3513 N84-32252 #
AD-P003486 ..... 21 p3513 N84-32253 #
AD-P003487 ..... 21 p3513 N84-32254 #
AD-P003488 ..... 21 p3513 N84-32255 #
AD-P003489 ..... 21 p3514 N84-32256 #
AD-P003491 ..... 21 p3514 N84-32257 #
AD-P003492 ..... 21 p3514 N84-32258 #
AD-P003493 ..... 21 p3514 N84-32259 #
AD-P003494 ..... 21 p3514 N84-32260 #
AD-P003495 ..... 21 p3514 N84-32261 #
AD-P003496 ..... 21 p3514 N84-32262 #
AD-P003497 ..... 21 p3515 N84-32263 #
AD-P003498 ..... 21 p3515 N84-32264 #
AD-P003499 ..... 21 p3515 N84-32265 #
AD-P003500 ..... 21 p3383 N84-31468 #
AD-P003501 ..... 21 p3383 N84-31469 #
AD-P003502 ..... 21 p3383 N84-31470 #
AD-P003503 ..... 21 p3383 N84-31471 #
AD-P003504 ..... 21 p3384 N84-31472 #
AD-P003505 ..... 21 p3384 N84-31473 #
AD-P003506 ..... 21 p3384 N84-31474 #
AD-P003507 ..... 21 p3384 N84-31475 #
AD-P003508 ..... 21 p3384 N84-31476 #
AD-P003509 ..... 21 p3384 N84-31477 #
AD-P003510 ..... 21 p3384 N84-31478 #
AD-P003511 ..... 21 p3385 N84-31479 #
AD-P003512 ..... 21 p3385 N84-31480 #
AD-P003513 ..... 21 p3385 N84-31481 #
AD-P003514 ..... 21 p3385 N84-31482 #
AD-P003515 ..... 21 p3385 N84-31483 #
AD-P003516 ..... 21 p3385 N84-31484 #
AD-P003517 ..... 21 p3385 N84-31485 #
AD-P003518 ..... 21 p3329 N84-31122 #
AD-P003519 ..... 21 p3329 N84-31123 #
AD-P003520 ..... 21 p3329 N84-31124 #
AD-P003521 ..... 21 p3329 N84-31125 #
AD-P003522 ..... 21 p3330 N84-31126 #
AD-P003523 ..... 21 p3330 N84-31127 #
AD-P003524 ..... 21 p3330 N84-31128 #
AD-P003525 ..... 21 p3330 N84-31129 #
AD-P003526 ..... 21 p3330 N84-31130 #
AD-P003527 ..... 21 p3330 N84-31131 #
AD-P003528 ..... 21 p3330 N84-31132 #
AD-P003529 ..... 21 p3331 N84-31133 #
AD-P003530 ..... 21 p3331 N84-31134 #
AD-P003531 ..... 21 p3331 N84-31135 #
AD-P003532 ..... 21 p3331 N84-31136 #
AD-P003533 ..... 21 p3331 N84-31137 #
AD-P003534 ..... 21 p3331 N84-31138 #
AD-P003535 ..... 21 p3332 N84-31139 #
AD-P003536 ..... 21 p3332 N84-31140 #
AD-P003537 ..... 21 p3332 N84-31141 #
AD-P003538 ..... 21 p3332 N84-31142 #
AD-P003539 ..... 21 p3332 N84-31143 #
AD-P003540 ..... 21 p3332 N84-31144 #
AD-P003541 ..... 21 p3333 N84-31145 #
AD-P003542 ..... 21 p3333 N84-31146 #
AD-P003543 ..... 21 p3333 N84-31147 #
AD-P003544 ..... 21 p3333 N84-31148 #
AD-P003545 ..... 21 p3333 N84-31149 #
AD-P003546 ..... 21 p3333 N84-31150 #
AD-P003547 ..... 21 p3333 N84-31151 #
AD-P003548 ..... 21 p3334 N84-31152 #
AD-P003549 ..... 21 p3334 N84-31153 #
AD-P003550 ..... 21 p3334 N84-31154 #
AD-P003551 ..... 21 p3334 N84-31155 #
AD-P003552 ..... 21 p3334 N84-31156 #
AD-P003553 ..... 21 p3334 N84-31157 #
AD-P003554 ..... 21 p3334 N84-31158 #
AD-P003555 ..... 21 p3335 N84-31159 #
AD-P003556 ..... 21 p3335 N84-31160 #
AD-P003557 ..... 21 p3335 N84-31161 #
AD-P003558 ..... 21 p3335 N84-31162 #
AD-P003559 ..... 21 p3335 N84-31163 #
AD-P003560 ..... 21 p3335 N84-31164 #
AD-P003561 ..... 21 p3336 N84-31166 #
AD-P003562 ..... 21 p3336 N84-31167 #
AD-P003563 ..... 21 p3336 N84-31168 #
AD-P003564 ..... 21 p3336 N84-31169 #
AD-P003565 ..... 21 p3336 N84-31170 #
AD-P003566 ..... 21 p3336 N84-31171 #
AD-P003567 ..... 21 p3337 N84-31172 #
AD-P003568 ..... 21 p3337 N84-31173 #
AD-P003569 ..... 21 p3337 N84-31174 #
AD-P003570 ..... 21 p3337 N84-31175 #
AD-P003571 ..... 21 p3337 N84-31176 #
AD-P003572 ..... 21 p3338 N84-31177 #
AD-P003573 ..... 21 p3338 N84-31178 #
AD-P003574 ..... 21 p3338 N84-31179 #
AD-P003575 ..... 21 p3338 N84-31180 #
AD-P003576 ..... 21 p3338 N84-31181 #
AD-P003577 ..... 21 p3338 N84-31182 #
AD-P003578 ..... 21 p3338 N84-31183 #
AD-P003579 ..... 21 p3339 N84-31184* #
AD-P003580 ..... 21 p3339 N84-31185 #
AD-P003581 ..... 21 p3339 N84-31186 #
AD-P003582 ..... 21 p3339 N84-31187 #
AD-P003583 ..... 21 p3339 N84-31188 #
AD-P003584 ..... 21 p3340 N84-31189 #
AD-P003585 ..... 21 p3340 N84-31190 #
AD-P003586 ..... 21 p3340 N84-31191 #
AD-P003587 ..... 21 p3340 N84-31192 #
AD-P003588 ..... 21 p3340 N84-31193 #
AD-P003589 ..... 21 p3340 N84-31194 #
AD-P003590 ..... 21 p3341 N84-31195 #
AD-P003591 ..... 21 p3341 N84-31196 #
AD-P003592 ..... 21 p3341 N84-31197 #
AD-P003593 ..... 21 p3341 N84-31198 #
AD-P003594 ..... 21 p3341 N84-31199 #
AD-P003595 ..... 21 p3341 N84-31200 #
AD-P003840 ..... 24 p3938 N84-34928 #
AD-P003841 ..... 24 p3939 N84-34929 #
AD-P003842 ..... 24 p3939 N84-34930 #
AD-P003843 ..... 24 p3939 N84-34931 #
AD-P003844 ..... 24 p3939 N84-34932 #
AD-P003845 ..... 24 p3939 N84-34933 #
AD-P003847 ..... 24 p3939 N84-34934 #
AD-P003848 ..... 24 p3939 N84-34935 #
AD-P003849 ..... 24 p3939 N84-34936 #
AD-P003850 ..... 24 p3940 N84-34937 #
AD-P003852 ..... 24 p3940 N84-34938 #
AD-P003853 ..... 24 p3940 N84-34939 #
AD-P003855 ..... 24 p3940 N84-34940 #

AD-TR-83-42 ..... 08 p1108 N84-17205 #
AD-TR-83-46 ..... 08 p1108 N84-17207 #
AD-TR-83-86 ..... 11 p1621 N84-20608 #

ADL-C-50075 ..... 24 p3917 N84-34799 #

ADL-66616 ..... 07 p0997 N84-16465 #
ADL-88036 ..... 09 p1341 N84-18757* #
ADL-88683 ..... 05 p0761 N84-14991* #

AEDC-TR-83-1 ..... 08 p1121 N84-17288 #
AEDC-TR-83-2 ..... 02 p0175 N84-11150 #
AEDC-TR-83-10 ..... 02 p0174 N84-11146 #
AEDC-TR-83-13 ..... 03 p0376 N84-12450 #
AEDC-TR-83-22 ..... 03 p0425 N84-12783 #
AEDC-TR-83-28 ..... 16 p2452 N84-25722 #
AEDC-TR-83-31 ..... 09 p1323 N84-18644 #
AEDC-TR-83-33 ..... 06 p0847 N84-15525 #
AEDC-TR-83-37 ..... 06 p0844 N84-15504 #
AEDC-TR-83-40 ..... 09 p1259 N84-18217 #
AEDC-TR-83-64 ..... 17 p2768 N84-27578 #
AEDC-TR-84-7 ..... 23 p3690 N84-33390 #
AEDC-TR-84-8 ..... 19 p2958 N84-28751 #

AEDC-TSR-83-V2 ..... 03 p0341 N84-12215 #
AEDC-TSR-83-V29 ..... 16 p2457 N84-25754 #
AEDC-TSR-83-V41 ..... 14 p2146 N84-23860 #

AEM-H2-2 ..... 22 p3611 N84-32882 #

AEM-RP-84-1 ..... 13 p2001 N84-22984 #

AERE-E-11155 ..... 18 p2816 N84-27881 #

AERE-M-3372 ..... 18 p2817 N84-27883 #

AERE-R-1093 ..... 01 p0047 N84-10306 #
AERE-R-9751 ..... 01 p0047 N84-10304 #
AERE-R-10799 ..... 01 p0039 N84-10249 #
AERE-R-10906 ..... 01 p0098 N84-10638 #
AERE-R-10954 ..... 18 p2820 N84-27907 #
AERE-R-10956 ..... 18 p2929 N84-28573 #
AERE-R-10966 ..... 18 p2820 N84-27905 #
AERE-R-10976 ..... 01 p0047 N84-10305 #
AERE-R-11010 ..... 18 p2854 N84-28126 #
AERE-R-11029 ..... 18 p2931 N84-28589 #
AERE-R-11043 ..... 18 p2816 N84-27882 #
AERE-R-11046 ..... 18 p2816 N84-27879 #
AERE-R-11051 ..... 18 p2942 N84-28658 #
AERE-R-11063 ..... 18 p2850 N84-28097 #
AERE-R-11069 ..... 18 p2816 N84-27880 #

AERE-R-11071 ..... 18 p2845 N84-28064 #
AERE-R-11078 ..... 18 p2854 N84-28124 #
AERE-R-11112 ..... 18 p2820 N84-27906 #
AERE-R-11115 ..... 18 p2854 N84-28123 #
AERE-R-11132 ..... 18 p2835 N84-27997 #
AERE-R-11162 ..... 18 p2929 N84-28574 #
AERE-R-11196 ..... 18 p2854 N84-28125 #
AERE-R-11226 ..... 18 p2927 N84-28561 #

AERE-TR-4774 ..... 06 p0805 N84-15244 #

AERO-1282 ..... 10 p1422 N84-19296 #
AERO-1292 ..... 20 p3184 N84-30231 #

AEROCHEM-TN-238 ..... 18 p2821 N84-27912 #

AEROCHEM-TP-427 ..... 10 p1455 N84-19505 #
AEROCHEM-TP-429 ..... 09 p1279 N84-18354 #

AERONOMICA-ACTA-A-34-1983 ..... 16 p2455 N84-25744
AERONOMICA-ACTA-A-270-1983 ..... 16 p2520 N84-26175
AERONOMICA-ACTA-A-278-1984 ..... 16 p2527 N84-26226
AERONOMICA-ACTA-A-280-1984 ..... 16 p2558 N84-26406
AERONOMICA-ACTA-A-281-1984 ..... 16 p2494 N84-26003
AERONOMICA-ACTA-A-284-1984 ..... 20 p3239 N84-30564
AERONOMICA-ACTA-A-286-1984 ..... 20 p3239 N84-30565

AEROTHERM-LAX-FR-01 ..... 02 p0186 N84-11209 #

AEROTHERM-UM-82-15/ATD-VOL-3 ..... 02 p0186 N84-11208 #

AES-14018 ..... 07 p0997 N84-16467 #

AFAMRL-TR-80-84 ..... 09 p1304 N84-18524 #
AFAMRL-TR-82-101 ..... 07 p1027 N84-16857 #
AFAMRL-TR-83-64 ..... 09 p1362 N84-18896 #
AFAMRL-TR-83-047 ..... 14 p2185 N84-24092 #
AFAMRL-TR-83-050 ..... 11 p1701 N84-21099 #
AFAMRL-TR-83-052 ..... 07 p1050 N84-16799 #
AFAMRL-TR-83-053 ..... 01 p0113 N84-10733 #
AFAMRL-TR-83-054 ..... 07 p1051 N84-16810 #
AFAMRL-TR-83-055 ..... 07 p1042 N84-16757 #
AFAMRL-TR-83-058 ..... 06 p0897 N84-15822 #
AFAMRL-TR-83-066 ..... 13 p2020 N84-23099 #
AFAMRL-TR-83-067 ..... 09 p1362 N84-18895 #
AFAMRL-TR-83-068 ..... 05 p0713 N84-14672 #
AFAMRL-TR-83-069 ..... 11 p1606 N84-20516 #
AFAMRL-TR-83-072 ..... 10 p1430 N84-19350 #
AFAMRL-TR-83-074 ..... 10 p1545 N84-20130 #
AFAMRL-TR-83-078 ..... 12 p1899 N84-22368 #
AFAMRL-TR-83-081 ..... 12 p1868 N84-22174 #
AFAMRL-TR-83-083 ..... 13 p2024 N84-23121 #
AFAMRL-TR-83-088 ..... 16 p2538 N84-26294 #
AFAMRL-TR-83-095 ..... 17 p2588 N84-26587 #
AFAMRL-TR-83-097 ..... 14 p2184 N84-24086 #
AFAMRL-TR-84-004 ..... 18 p2900 N84-28395 #
AFAMRL-TR-84-006 ..... 15 p2398 N84-25390 #
AFAMRL-TR-84-008 ..... 15 p2404 N84-25428 #
AFAMRL-TR-84-009 ..... 18 p2830 N84-27965 #
AFAMRL-TR-84-017-VOL-2 ..... 20 p3291 N84-30892 #
AFAMRL-TR-84-018 ..... 20 p3129 N84-29872 #
AFAMRL-TR-84-020 ..... 20 p3260 N84-30691 #
AFAMRL-TR-84-023 ..... 22 p3630 N84-33006 #

AFATL-TR-83-42 ..... 19 p2959 N84-28754 #
AFATL-TR-83-90 ..... 20 p3183 N84-30227 #
AFATL-TR-83-94 ..... 23 p3747 N84-33753 #

AFCRL-TR-74-0322 ..... 05 p0708 N84-14641 #

AFESC/DEB-TR-83-03 ..... 15 p2361 N84-25165* #

AFESC/ESL-TR-81-49 ..... 17 p2611 N84-26714 #
AFESC/ESL-TR-82-31 ..... 07 p0985 N84-16383 #
AFESC/ESL-TR-82-37 ..... 17 p2611 N84-26713 #
AFESC/ESL-TR-82-41-VOL-2 ..... 01 p0016 N84-10105 #
AFESC/ESL-TR-82-43 ..... 01 p0012 N84-10074 #
AFESC/ESL-TR-82-46 ..... 01 p0016 N84-10103 #
AFESC/ESL-TR-82-47 ..... 06 p0786 N84-15146 #
AFESC/ESL-TR-82-50 ..... 10 p1517 N84-19929 #
AFESC/ESL-TR-82-51 ..... 01 p0016 N84-10104 #
AFESC/ESL-TR-83-02 ..... 11 p1620 N84-20603 #
AFESC/ESL-TR-83-08 ..... 01 p0053 N84-10339 #
AFESC/ESL-TR-83-09 ..... 03 p0338 N84-12195 #
AFESC/ESL-TR-83-18 ..... 01 p0103 N84-10666 #
AFESC/ESL-TR-83-26 ..... 15 p2304 N84-24822 #
AFESC/ESL-TR-83-33 ..... 15 p2317 N84-24907 #
AFESC/ESL-TR-83-35 ..... 14 p2104 N84-23619 #
AFESC/ESL-TR-83-40 ..... 14 p2173 N84-24018 #
AFESC/ESL-TR-83-48 ..... 10 p1532 N84-20031 #
AFESC/ESL-TR-83-50 ..... 10 p1471 N84-19608 #
AFESC/ESL-TR-83-63 ..... 19 p3052 N84-29368 #
AFESC/ESL-TR-83-65 ..... 12 p1803 N84-21753 #
AFESC/ESL-TR-83-73 ..... 12 p1917 N84-22493 #
AFESC/ESL-TR-83-029 ..... 01 p0103 N84-10670 #
AFESC/ESL-TR-84-07 ..... 19 p2969 N84-28818 #
AFESC/ESL-TR-84-14 ..... 22 p3638 N84-33060 #
AFESC/ESL-TR-84-21 ..... 19 p2970 N84-28819 #

AFFDL-TR-79-3118-VOL-7 ..... 20 p3128 N84-29865 #

AFFTAC/DS-84-013 ..... 18 p2890 N84-28342 #

AFFTC-TIH-83-2 ..... 05 p0629 N84-14137 #
AFFTC-TIH-84-1 ..... 15 p2260 N84-24576 #

AFFTC-TIM-83-2 ..... 09 p1349 N84-18814 #
AFFTC-TIM-83-3 ..... 09 p1302 N84-18510 #
AFFTC-TIM-83-4 ..... 09 p1349 N84-18813 #
AFFTC-TIM-84-1 ..... 19 p2963 N84-28781 #

AFGL-AFSG-442 ..... 05 p0763 N84-15005 #

AFGL-ERP-811 ..... 01 p0107 N84-10694 #
AFGL-ERP-813 ..... 01 p0108 N84-10701 #
AFGL-ERP-814 ..... 01 p0107 N84-10693 #
AFGL-ERP-817 ..... 03 p0410 N84-12686 #
AFGL-ERP-819 ..... 02 p0185 N84-11201 #
AFGL-ERP-820 ..... 02 p0248 N84-11625 #
AFGL-ERP-823 ..... 03 p0410 N84-12682 #
AFGL-ERP-824 ..... 03 p0432 N84-12831 #
AFGL-ERP-826 ..... 03 p0461 N84-13037 #
AFGL-ERP-828 ..... 04 p0563 N84-13712 #
AFGL-ERP-829 ..... 03 p0432 N84-12830 #
AFGL-ERP-830 ..... 03 p0407 N84-12667 #
AFGL-ERP-831 ..... 03 p0410 N84-12683 #
AFGL-ERP-832 ..... 05 p0703 N84-14613 #
AFGL-ERP-833 ..... 11 p1687 N84-21004 #
AFGL-ERP-835 ..... 05 p0670 N84-14402 #
AFGL-ERP-836 ..... 05 p0709 N84-14643 #
AFGL-ERP-839 ..... 05 p0708 N84-14639 #
AFGL-ERP-840 ..... 13 p2017 N84-23076 #
AFGL-ERP-842 ..... 11 p1683 N84-20980 #
AFGL-ERP-843 ..... 10 p1539 N84-20087 #
AFGL-ERP-844 ..... 11 p1687 N84-21005 #
AFGL-ERP-845-CH-16-REV ..... 24 p3934 N84-34901 #
AFGL-ERP-846 ..... 11 p1707 N84-21126 #
AFGL-ERP-846-SUPPL ..... 11 p1706 N84-21123 #
AFGL-ERP-848 ..... 11 p1687 N84-21003 #
AFGL-ERP-849 ..... 11 p1732 N84-21296 #
AFGL-ERP-850 ..... 11 p1671 N84-20906 #
AFGL-ERP-851 ..... 11 p1687 N84-21002 #
AFGL-ERP-852 ..... 11 p1682 N84-20976 #
AFGL-ERP-853 ..... 10 p1536 N84-20066 #
AFGL-ERP-854 ..... 20 p3241 N84-30574 #
AFGL-ERP-855 ..... 18 p2890 N84-28345 #
AFGL-ERP-856 ..... 14 p2251 N84-24521 #
AFGL-ERP-858 ..... 14 p2146 N84-23862 #
AFGL-ERP-859 ..... 13 p2011 N84-23044 #
AFGL-ERP-860 ..... 13 p2011 N84-23045 #
AFGL-ERP-861 ..... 20 p3246 N84-30600 #
AFGL-ERP-862 ..... 18 p2889 N84-28339 #
AFGL-ERP-863 ..... 22 p3625 N84-32971 #
AFGL-ERP-865 ..... 22 p3623 N84-32960 #
AFGL-ERP-868 ..... 20 p3246 N84-30601 #
AFGL-ERP-869 ..... 22 p3623 N84-32959 #
AFGL-ERP-870 ..... 22 p3577 N84-32655 #

AFGL-IP-312 ..... 13 p1937 N84-22599 #
AFGL-IP-315 ..... 03 p0320 N84-12093 #
AFGL-IP-316 ..... 03 p0411 N84-12687 #
AFGL-IP-317 ..... 03 p0340 N84-12209 #
AFGL-IP-318 ..... 05 p0666 N84-14382 #
AFGL-IP-319 ..... 14 p2140 N84-23831 #
AFGL-IP-320 ..... 18 p2890 N84-28347 #
AFGL-IP-322 ..... 22 p3623 N84-32958 #
AFGL-IP-323 ..... 22 p3541 N84-32417 #

AFGL-PSRP-666 ..... 04 p0563 N84-13713 #
AFGL-PSRP-667 ..... 10 p1585 N84-20387 #

AFGL-SR-233 ..... 01 p0165 N84-11087 #
AFGL-SR-234 ..... 03 p0342 N84-12218 #

AFGL-TR-82-0086 ..... 01 p0106 N84-10687 #
AFGL-TR-82-0265 ..... 13 p1937 N84-22599 #
AFGL-TR-82-0302 ..... 09 p1416 N84-19267 #
AFGL-TR-82-0303 ..... 01 p0108 N84-10701 #
AFGL-TR-82-0342 ..... 01 p0165 N84-11085 #
AFGL-TR-82-0368 ..... 01 p0107 N84-10694 #
AFGL-TR-82-0384 ..... 01 p0107 N84-10693 #
AFGL-TR-82-0390 ..... 01 p0165 N84-11087 #
AFGL-TR-82-0392 ..... 01 p0147 N84-10964 #
AFGL-TR-82-0394 ..... 02 p0256 N84-11675 #
AFGL-TR-82-0397 ..... 03 p0410 N84-12686 #
AFGL-TR-83-0002 ..... 02 p0185 N84-11201 #
AFGL-TR-83-0008 ..... 03 p0425 N84-12785 #
AFGL-TR-83-0016 ..... 02 p0248 N84-11625 #
AFGL-TR-83-0018 ..... 07 p1093 N84-17110 #
AFGL-TR-83-0029 ..... 03 p0410 N84-12682 #
AFGL-TR-83-0031 ..... 14 p2137 N84-23808 #
AFGL-TR-83-0045 ..... 03 p0432 N84-12831 #

AFGL-TR-83-0046 ..... 16 p2521 N84-26185 #
AFGL-TR-83-0053 ..... 05 p0702 N84-14610 #
AFGL-TR-83-0055 ..... 03 p0461 N84-13037 #
AFGL-TR-83-0056 ..... 01 p0107 N84-10695 #
AFGL-TR-83-0058 ..... 01 p0138 N84-10904 #
AFGL-TR-83-0059 ..... 01 p0028 N84-10179 #
AFGL-TR-83-0062 ..... 03 p0320 N84-12093 #
AFGL-TR-83-0063 ..... 03 p0411 N84-12687 #
AFGL-TR-83-0065 ..... 04 p0563 N84-13712 #
AFGL-TR-83-0067 ..... 04 p0563 N84-13713 #
AFGL-TR-83-0069 ..... 01 p0070 N84-10459 #
AFGL-TR-83-0070 ..... 08 p1187 N84-17738 #
AFGL-TR-83-0071 ..... 01 p0166 N84-11088 #
AFGL-TR-83-0078 ..... 03 p0432 N84-12830 #
AFGL-TR-83-0079 ..... 03 p0407 N84-12667 #
AFGL-TR-83-0080 ..... 03 p0410 N84-12683 #
AFGL-TR-83-0081 ..... 06 p0848 N84-15528 #
AFGL-TR-83-0082 ..... 04 p0567 N84-13740 #
AFGL-TR-83-0083 ..... 03 p0342 N84-12218 #
AFGL-TR-83-0086 ..... 07 p1093 N84-17106 #
AFGL-TR-83-0088 ..... 05 p0703 N84-14615 #
AFGL-TR-83-0091 ..... 03 p0340 N84-12209 #
AFGL-TR-83-0092 ..... 05 p0703 N84-14613 #
AFGL-TR-83-0093 ..... 11 p1687 N84-21004 #
AFGL-TR-83-0095 ..... 03 p0377 N84-12452 #
AFGL-TR-83-0099 ..... 06 p0938 N84-16098 #
AFGL-TR-83-0102 ..... 01 p0104 N84-10676 #
AFGL-TR-83-0103 ..... 01 p0166 N84-11092 #
AFGL-TR-83-0105 ..... 06 p0866 N84-15639 #
AFGL-TR-83-0108 ..... 03 p0377 N84-12453 #
AFGL-TR-83-0110 ..... 05 p0670 N84-14402 #
AFGL-TR-83-0111 ..... 05 p0666 N84-14382 #
AFGL-TR-83-0112 ..... 05 p0709 N84-14643 #
AFGL-TR-83-0117 ..... 05 p0741 N84-14867 #
AFGL-TR-83-0124 ..... 04 p0526 N84-13460 #
AFGL-TR-83-0125 ..... 03 p0444 N84-12917 #
AFGL-TR-83-0126 ..... 11 p1759 N84-21482 #
AFGL-TR-83-0127 ..... 03 p0340 N84-12211 #
AFGL-TR-83-0128 ..... 05 p0703 N84-14616 #
AFGL-TR-83-0130 ..... 03 p0340 N84-12210 #
AFGL-TR-83-0132 ..... 03 p0408 N84-12669 #
AFGL-TR-83-0133 ..... 06 p0882 N84-15735 #
AFGL-TR-83-0134 ..... 03 p0408 N84-12670 #
AFGL-TR-83-0135 ..... 07 p0963 N84-16244 #
AFGL-TR-83-0137 ..... 06 p0847 N84-15527 #
AFGL-TR-83-0140 ..... 13 p1940 N84-22616 #
AFGL-TR-83-0141 ..... 05 p0708 N84-14639 #
AFGL-TR-83-0142 ..... 05 p0703 N84-14614 #
AFGL-TR-83-0155 ..... 13 p2017 N84-23076 #
AFGL-TR-83-0160 ..... 03 p0407 N84-12665 #
AFGL-TR-83-0161 ..... 05 p0763 N84-15005 #
AFGL-TR-83-0166 ..... 03 p0411 N84-12691 #
AFGL-TR-83-0167 ..... 05 p0670 N84-14404 #
AFGL-TR-83-0168 ..... 11 p1683 N84-20980 #
AFGL-TR-83-0169 ..... 10 p1585 N84-20387 #
AFGL-TR-83-0170 ..... 10 p1539 N84-20087 #
AFGL-TR-83-0180 ..... 11 p1687 N84-21005 #
AFGL-TR-83-0181-CH-16-REV ..... 24 p3934 N84-34901 #
AFGL-TR-83-0184 ..... 15 p2368 N84-25210 #
AFGL-TR-83-0186 ..... 05 p0704 N84-14617 #
AFGL-TR-83-0187 ..... 11 p1707 N84-21126 #
AFGL-TR-83-0187-SUPPL ..... 11 p1706 N84-21123 #
AFGL-TR-83-0191-VOL-1 ..... 08 p1164 N84-17577 #
AFGL-TR-83-0191-VOL-2 ..... 08 p1164 N84-17578 #
AFGL-TR-83-0195 ..... 10 p1539 N84-20084 #
AFGL-TR-83-0196 ..... 08 p1186 N84-17731 #
AFGL-TR-83-0199 ..... 11 p1622 N84-20620 #
AFGL-TR-83-0200 ..... 11 p1687 N84-21003 #
AFGL-TR-83-0201 ..... 11 p1732 N84-21296 #
AFGL-TR-83-0202 ..... 16 p2526 N84-26219 #
AFGL-TR-83-0209 ..... 08 p1187 N84-17732 #
AFGL-TR-83-0221 ..... 11 p1644 N84-20748 #
AFGL-TR-83-0224 ..... 13 p2036 N84-23206 #
AFGL-TR-83-0226 ..... 11 p1671 N84-20906 #
AFGL-TR-83-0227 ..... 11 p1687 N84-21002 #
AFGL-TR-83-0228 ..... 11 p1682 N84-20978 #
AFGL-TR-83-0233 ..... 08 p1121 N84-17289 #
AFGL-TR-83-0234 ..... 10 p1536 N84-20067 #
AFGL-TR-83-0235 ..... 11 p1682 N84-20977 #
AFGL-TR-83-0236 ..... 20 p3300 N84-30954 #
AFGL-TR-83-0238 ..... 11 p1682 N84-20976 #
AFGL-TR-83-0239 ..... 10 p1536 N84-20066 #
AFGL-TR-83-0240 ..... 20 p3241 N84-30574 #
AFGL-TR-83-0248 ..... 13 p2036 N84-23208 #
AFGL-TR-83-0253 ..... 08 p1187 N84-17733 #
AFGL-TR-83-0254 ..... 13 p2011 N84-23048 #
AFGL-TR-83-0255 ..... 15 p2283 N84-24706 #
AFGL-TR-83-0256 ..... 18 p2890 N84-28345 #
AFGL-TR-83-0257 ..... 14 p2251 N84-24521 #
AFGL-TR-83-0261 ..... 05 p0643 N84-14231 #
AFGL-TR-83-0268 ..... 14 p2176 N84-24036 #
AFGL-TR-83-0272 ..... 07 p1034 N84-16706 #
AFGL-TR-83-0274 ..... 05 p0733 N84-14814 #
AFGL-TR-83-0275 ..... 14 p2140 N84-23831 #
AFGL-TR-83-0276 ..... 13 p2011 N84-23044 #
AFGL-TR-83-0284 ..... 13 p2011 N84-23045 #
AFGL-TR-83-0286 ..... 18 p2890 N84-28347 #
AFGL-TR-83-0294 ..... 16 p2458 N84-25781 #
AFGL-TR-83-0299 ..... 17 p2653 N84-26966 #
AFGL-TR-83-0300 ..... 11 p1682 N84-20975 #
AFGL-TR-83-0301 ..... 11 p1682 N84-20974 #
AFGL-TR-83-0304 ..... 14 p2146 N84-23862 #
AFGL-TR-83-0305 ..... 18 p2890 N84-28344 #
AFGL-TR-83-0308 ..... 20 p3246 N84-30600 #
AFGL-TR-83-0316 ..... 22 p3623 N84-32957 #
AFGL-TR-83-0317 ..... 24 p3919 N84-34810 #
AFGL-TR-83-0318 ..... 19 p3054 N84-29382 #
AFGL-TR-83-0319 ..... 24 p3861 N84-34466 #
AFGL-TR-83-0320 ..... 15 p2283 N84-24707 #
AFGL-TR-83-0325 ..... 16 p2526 N84-26218 #
AFGL-TR-83-0327 ..... 11 p1683 N84-20981 #
AFGL-TR-83-0328 ..... 22 p3625 N84-32971 #
AFGL-TR-83-0329 ..... 18 p2889 N84-28339 #
AFGL-TR-83-0331 ..... 10 p1448 N84-19463 #
AFGL-TR-83-0333 ..... 20 p3245 N84-30599 #
AFGL-TR-84-0005 ..... 22 p3623 N84-32960 #
AFGL-TR-84-0007 ..... 19 p3004 N84-29039 #
AFGL-TR-84-0017 ..... 18 p2932 N84-28595* #
AFGL-TR-84-0023 ..... 15 p2354 N84-25127 #
AFGL-TR-84-0027 ..... 16 p2526 N84-26217 #
AFGL-TR-84-0028 ..... 21 p3447 N84-31871 #
AFGL-TR-84-0029 ..... 20 p3246 N84-30601 #
AFGL-TR-84-0030 ..... 19 p3054 N84-29380 #
AFGL-TR-84-0031 ..... 20 p3241 N84-30575 #
AFGL-TR-84-0032 ..... 18 p2880 N84-28284 #
AFGL-TR-84-0041 ..... 16 p2531 N84-26251 #
AFGL-TR-84-0044 ..... 18 p2880 N84-28286 #
AFGL-TR-84-0045 ..... 22 p3623 N84-32959 #
AFGL-TR-84-0046 ..... 22 p3623 N84-32958 #
AFGL-TR-84-0047 ..... 22 p3577 N84-32655 #
AFGL-TR-84-0048 ..... 24 p3993 N84-35266 #
AFGL-TR-84-0053 ..... 12 p1860 N84-22120 #
AFGL-TR-84-0054 ..... 22 p3541 N84-32417 #
AFGL-TR-84-0063 ..... 24 p3915 N84-34791 #
AFGL-TR-84-0068 ..... 19 p3101 N84-29702 #
AFGL-TR-84-0069 ..... 22 p3577 N84-32653 #
AFGL-TR-84-0070 ..... 19 p3054 N84-29379 #
AFGL-TR-84-0077 ..... 19 p3094 N84-29647 #
AFGL-TR-84-0078 ..... 20 p3178 N84-30186 #
AFGL-TR-84-0083 ..... 19 p3054 N84-29381 #
AFGL-TR-84-0084 ..... 19 p3089 N84-29611 #
AFGL-TR-84-0086 ..... 24 p3963 N84-35097 #
AFGL-TR-84-0087 ..... 22 p3623 N84-32956 #
AFGL-TR-84-0095 ..... 24 p3860 N84-34463 #
AFGL-TR-84-0103 ..... 20 p3302 N84-30968 #
AFGL-TR-84-0105 ..... 14 p2112 N84-23660 #
AFGL-TR-84-0127 ..... 22 p3653 N84-33156 #
AFGL-TR-84-0155 ..... 21 p3447 N84-31872 #
AFGL-TR-84-0176 ..... 23 p3714 N84-33541 #

AFGWC/PR-83/001 ..... 14 p2179 N84-24053 #

AFGWC/TN-82/003 ..... 08 p1191 N84-17761 #

AFHRL-TP-82-25(1) ..... 01 p0117 N84-10758 #
AFHRL-TP-82-25(2) ..... 03 p0459 N84-13019 #
AFHRL-TP-82-43 ..... 01 p0016 N84-10106 #
AFHRL-TP-83-8 ..... 08 p1201 N84-17826 #
AFHRL-TP-83-24 ..... 01 p0116 N84-10752 #
AFHRL-TP-83-28 ..... 06 p0900 N84-15839 #
AFHRL-TP-83-32 ..... 09 p1363 N84-18901 #
AFHRL-TP-83-33 ..... 07 p1049 N84-16798 #
AFHRL-TP-83-34 ..... 07 p1052 N84-16811 #
AFHRL-TP-83-35 ..... 07 p1063 N84-16895 #
AFHRL-TP-83-37 ..... 05 p0720 N84-14717 #
AFHRL-TP-83-38 ..... 08 p1106 N84-17191 #
AFHRL-TP-83-41 ..... 10 p1430 N84-19349 #
AFHRL-TP-83-45 ..... 10 p1555 N84-20192 #
AFHRL-TP-83-46 ..... 10 p1432 N84-19363 #
AFHRL-TP-83-47 ..... 04 p0573 N84-13773 #
AFHRL-TP-83-62(1) ..... 19 p3075 N84-29511 #
AFHRL-TP-83-62(2) ..... 19 p3075 N84-29510 #
AFHRL-TP-83-64 ..... 19 p3068 N84-29459 #
AFHRL-TP-84-11 ..... 23 p3812 N84-34169 #

AFHRL-TR-82-19 ..... 03 p0457 N84-13011 #
AFHRL-TR-82-33 ..... 02 p0268 N84-11757 #
AFHRL-TR-83-17 ..... 07 p1050 N84-16802 #
AFHRL-TR-83-19 ..... 04 p0572 N84-13770 #
AFHRL-TR-83-21 ..... 09 p1259 N84-18219 #
AFHRL-TR-83-22 ..... 08 p1106 N84-17190 #
AFHRL-TR-83-40 ..... 14 p2184 N84-24089 #
AFHRL-TR-83-49 ..... 16 p2538 N84-26297 #
AFHRL-TR-83-52 ..... 16 p2567 N84-26471 #
AFHRL-TR-83-57 ..... 19 p3002 N84-29026 #
AFHRL-TR-84-22 ..... 24 p3857 N84-34455 #

AFIT-DS/AA/83-2 ..... 14 p2102 N84-23612 #

AFIT-EN-TR-83-5 ..... 14 p2219 N84-24317 #

AFIT-LSSR-2-83 ..... 07 p0945 N84-16128 #

AFIT-LSSR-10-83 ..... 07 p1055 N84-16830 #
AFIT-LSSR-18-83 ..... 07 p1013 N84-16571 #
AFIT-LSSR-36-83 ..... 07 p1085 N84-17054 #
AFIT-LSSR-39-83 ..... 08 p1095 N84-17120 #
AFIT-LSSR-45-83 ..... 08 p1107 N84-17198 #
AFIT-LSSR-49-83 ..... 07 p0945 N84-16129 #
AFIT-LSSR-51-83 ..... 08 p1203 N84-17845 #
AFIT-LSSR-54-83 ..... 07 p1055 N84-16831 #
AFIT-LSSR-61-83 ..... 08 p1240 N84-18108 #
AFIT-LSSR-66-83 ..... 22 p3674 N84-33290 #
AFIT-LSSR-85-83 ..... 08 p1209 N84-17885 #
AFIT-LSSR-86-83 ..... 08 p1107 N84-17199 #
AFIT-LSSR-89-83 ..... 09 p1301 N84-18503 #
AFIT-LSSR-91-83 ..... 09 p1404 N84-19175 #
AFIT-LSSR-93-83 ..... 09 p1249 N84-18156 #
AFIT-LSSR-106-83 ..... 09 p1397 N84-19126 #
AFIT-LSSR-108-83 ..... 09 p1255 N84-18195 #
AFIT-LSSR-118-83 ..... 09 p1398 N84-19127 #

AFIT/CI/NR-80-83T ..... 05 p0713 N84-14670 #
AFIT/CI/NR-83-19D ..... 04 p0525 N84-13452 #
AFIT/CI/NR-83-24T ..... 05 p0712 N84-14666 #
AFIT/CI/NR-83-25T ..... 04 p0489 N84-13214 #
AFIT/CI/NR-83-26D ..... 05 p0757 N84-14967 #
AFIT/CI/NR-83-27D ..... 04 p0588 N84-13888 #
AFIT/CI/NR-83-28D ..... 04 p0579 N84-13818 #
AFIT/CI/NR-83-31D ..... 04 p0579 N84-13819 #
AFIT/CI/NR-83-34T ..... 04 p0544 N84-13584 #
AFIT/CI/NR-83-35D ..... 04 p0538 N84-13537 #
AFIT/CI/NR-83-36D ..... 05 p0735 N84-14826 #
AFIT/CI/NR-83-37D ..... 04 p0596 N84-13934 #
AFIT/CI/NR-83-47D ..... 05 p0740 N84-14860 #
AFIT/CI/NR-83-51T ..... 05 p0716 N84-14689 #
AFIT/CI/NR-83-54T ..... 07 p0992 N84-16432 #
AFIT/CI/NR-83-59D ..... 08 p1216 N84-17931 #
AFIT/CI/NR-83-60D ..... 08 p1191 N84-17760 #
AFIT/CI/NR-83-62T ..... 09 p1368 N84-18926 #
AFIT/CI/NR-83-63T ..... 08 p1190 N84-17759 #
AFIT/CI/NR-83-66D ..... 08 p1180 N84-17687 #
AFIT/CI/NR-83-69D ..... 08 p1220 N84-17963 #
AFIT/CI/NR-83-74D ..... 09 p1367 N84-18926 #
AFIT/CI/NR-83-77D ..... 10 p1551 N84-20166 #
AFIT/CI/NR-83-78T ..... 09 p1307 N84-18541 #
AFIT/CI/NR-83-79T ..... 14 p2127 N84-23753 #
AFIT/CI/NR-83-80T ..... 14 p2169 N84-23993 #
AFIT/CI/NR-83-82D ..... 14 p2114 N84-23669 #
AFIT/CI/NR-83-83T ..... 14 p2140 N84-23829 #
AFIT/CI/NR-83-84T ..... 14 p2120 N84-23703 #
AFIT/CI/NR-83-86T ..... 14 p2134 N84-23789 #
AFIT/CI/NR-83-90D ..... 14 p2214 N84-24298 #
AFIT/CI/NR-83-94D ..... 14 p2246 N84-24489 #
AFIT/CI/NR-84-1 ..... 23 p3701 N84-33457 #
AFIT/CI/NR-84-1T ..... 16 p2456 N84-25750 #
AFIT/CI/NR-84-2T ..... 16 p2463 N84-25785 #
AFIT/CI/NR-84-4D ..... 16 p2549 N84-26363 #
AFIT/CI/NR-84-5T ..... 16 p2484 N84-25933 #
AFIT/CI/NR-84-7T ..... 20 p3299 N84-30952 #
AFIT/CI/NR-84-9D ..... 19 p2969 N84-28817 #
AFIT/CI/NR-84-10D ..... 20 p3266 N84-30722 #
AFIT/CI/NR-84-12T ..... 19 p3058 N84-29403 #
AFIT/CI/NR-84-13D ..... 18 p2946 N84-28679 #
AFIT/CI/NR-84-15T ..... 18 p2807 N84-27821 #
AFIT/CI/NR-84-16D ..... 18 p2830 N84-27966 #
AFIT/CI/NR-84-17T ..... 18 p2945 N84-28674 #
AFIT/CI/NR-84-27T ..... 21 p3325 N84-31098 #
AFIT/CI/NR-84-28T ..... 21 p3409 N84-31622 #

AFIT/DS/EE/83-1 ..... 12 p1907 N84-22425 #

AFIT/DS/PH/83-4 ..... 12 p1913 N84-22464 #
AFIT/DS/PH/83-5 ..... 12 p1902 N84-22384 #
AFIT/DS/PH/83-6 ..... 12 p1898 N84-22359 #

AFIT/GA/AA/82D-6 ..... 24 p3865 N84-34499 #
AFIT/GA/AA/83D-1 ..... 10 p1451 N84-19474 #
AFIT/GA/AA/83D-2 ..... 10 p1460 N84-19536 #
AFIT/GA/AA/83D-3 ..... 10 p1435 N84-19381 #
AFIT/GA/AA/83D-4 ..... 10 p1517 N84-19931 #
AFIT/GA/AA/83D-5 ..... 10 p1436 N84-19385 #
AFIT/GA/AA/83D-6 ..... 10 p1428 N84-19336 #
AFIT/GA/AA/83D-8 ..... 10 p1448 N84-19464 #
AFIT/GA/AA/83M-2 ..... 09 p1332 N84-18697 #
AFIT/GA/AA/84M-1 ..... 19 p3023 N84-29170 #
AFIT/GA/AA/84M-2 ..... 24 p3949 N84-35002 #

AFIT/GA/EE/83D-1 ..... 12 p1883 N84-22274 #

AFIT/GAE/AA/81D-8 ..... 10 p1594 N84-20445 #
AFIT/GAE/AA/82D-6 ..... 09 p1252 N84-18172 #
AFIT/GAE/AA/83D-1 ..... 10 p1429 N84-19342 #
AFIT/GAE/AA/83D-2 ..... 10 p1492 N84-19759 #
AFIT/GAE/AA/83D-3 ..... 10 p1570 N84-20289 #
AFIT/GAE/AA/83D-4 ..... 10 p1493 N84-19760 #
AFIT/GAE/AA/83D-6 ..... 10 p1493 N84-19762 #
AFIT/GAE/AA/83D-7 ..... 10 p1421 N84-19292 #
AFIT/GAE/AA/83D-7 ..... 10 p1428 N84-19339 #
AFIT/GAE/AA/83D-8 ..... 10 p1420 N84-19290 #
AFIT/GAE/AA/83D-9 ..... 10 p1492 N84-19756 #
AFIT/GAE/AA/83D-11 ..... 10 p1517 N84-19932 #
AFIT/GAE/AA/83D-12 ..... 10 p1421 N84-19291 #
AFIT/GAE/AA/83D-13 ..... 10 p1492 N84-19757 #
AFIT/GAE/AA/83D-14 ..... 10 p1438 N84-19391 #
AFIT/GAE/AA/83D-15 ..... 10 p1460 N84-19535 #
AFIT/GAE/AA/83D-16 ..... 10 p1422 N84-19297 #
AFIT/GAE/AA/83D-17 ..... 10 p1517 N84-19933 #
AFIT/GAE/AA/83D-20 ..... 10 p1433 N84-19365 #
AFIT/GAE/AA/83D-21 ..... 10 p1421 N84-19294 #
AFIT/GAE/AA/83D-22 ..... 18 p2837 N84-28007 #
AFIT/GAE/AA/83D-23 ..... 10 p1492 N84-19755 #
AFIT/GAE/AA/83D-24 ..... 10 p1421 N84-19295 #
AFIT/GAE/AA/83D-27 ..... 10 p1452 N84-19485 #
AFIT/GAE/AA/83M-1 ..... 09 p1322 N84-18638 #
AFIT/GAE/AA/83S-2 ..... 12 p1772 N84-21555 #
AFIT/GAE/AA/83S-3 ..... 11 p1619 N84-20601 #
AFIT/GAE/AA/83S-4 ..... 09 p1276 N84-18330 #
AFIT/GAE/AA/83S-5 ..... 09 p1259 N84-18218 #
AFIT/GAE/AA/83S-6 ..... 09 p1282 N84-18375 #
AFIT/GAE/AA/84J-01 ..... 24 p3854 N84-34442 #
AFIT/GAE/AA/84M-1 ..... 18 p2814 N84-27861 #

AFIT/GAE/AE/82D-2 ..... 09 p1314 N84-18590 #

AFIT/GAE/EE/82D-1 ..... 15 p2254 N84-24534 #
AFIT/GAE/EE/83D-2 ..... 12 p1773 N84-21560 #

AFIT/GAE/ENY/83D-5 ..... 10 p1492 N84-19758 #
AFIT/GAE/ENY/83D-11 ..... 10 p1421 N84-19293 #

AFIT/GCS/EE/83D-4 ..... 12 p1894 N84-22336 #
AFIT/GCS/EE/83D-5 ..... 12 p1880 N84-22257 #
AFIT/GCS/EE/83D-10 ..... 18 p2945 N84-28672 #
AFIT/GCS/EE/83D-12 ..... 12 p1881 N84-22260 #
AFIT/GCS/EE/83D-13 ..... 12 p1807 N84-21778 #
AFIT/GCS/EE/83D-14 ..... 12 p1880 N84-22256 #
AFIT/GCS/EE/83D-15 ..... 12 p1918 N84-22497 #
AFIT/GCS/EE/83D-16 ..... 12 p1877 N84-22233 #
AFIT/GCS/EE/83D-17 ..... 12 p1918 N84-22496 #
AFIT/GCS/EE/83D-19 ..... 12 p1768 N84-21529 #
AFIT/GCS/EE/83D-20 ..... 12 p1881 N84-22261 #
AFIT/GCS/EE/83D-21 ..... 12 p1877 N84-22234 #
AFIT/GCS/EE/83D-22 ..... 12 p1880 N84-22254 #
AFIT/GCS/EE/84D-64 ..... 12 p1770 N84-21543 #
AFIT/GCS/EE/84M-1 ..... 18 p2944 N84-28666 #

AFIT/GCS/MA/83D-1 ..... 12 p1894 N84-22337 #
AFIT/GCS/MA/83D-3 ..... 12 p1879 N84-22248 #
AFIT/GCS/MA/83D-4 ..... 12 p1880 N84-22251 #
AFIT/GCS/MA/83D-5 ..... 12 p1879 N84-22249 #
AFIT/GCS/MA/83D-6 ..... 12 p1880 N84-22253 #
AFIT/GCS/MA/83D-7 ..... 12 p1918 N84-22499 #
AFIT/GCS/MA/83D-8 ..... 12 p1882 N84-22271 #
AFIT/GCS/MA/83D-9 ..... 12 p1882 N84-22266 #

AFIT/GCS/OS/83D-1 ..... 18 p2917 N84-28496 #
AFIT/GCS/OS/83D-2 ..... 19 p3075 N84-29508 #

AFIT/GE/EE/81D-50 ..... 12 p1881 N84-22258 #
AFIT/GE/EE/82D-18 ..... 15 p2253 N84-24532 #
AFIT/GE/EE/82D-47 ..... 15 p2254 N84-24533 #
AFIT/GE/EE/82D-59 ..... 15 p2254 N84-24535 #
AFIT/GE/EE/83-73 ..... 12 p1902 N84-22385 #
AFIT/GE/EE/83D-5 ..... 13 p1982 N84-22866 #
AFIT/GE/EE/83D-9 ..... 13 p1986 N84-22895 #
AFIT/GE/EE/83D-11 ..... 12 p1772 N84-21554 #
AFIT/GE/EE/83D-12 ..... 12 p1767 N84-21528 #
AFIT/GE/EE/83D-13 ..... 12 p1878 N84-22236 #
AFIT/GE/EE/83D-16 ..... 12 p1884 N84-22278 #
AFIT/GE/EE/83D-17 ..... 12 p1883 N84-22273 #
AFIT/GE/EE/83D-18 ..... 12 p1808 N84-21784 #
AFIT/GE/EE/83D-19 ..... 12 p1865 N84-22153 #
AFIT/GE/EE/83D-20 ..... 12 p1877 N84-22235 #
AFIT/GE/EE/83D-22 ..... 12 p1812 N84-21814 #
AFIT/GE/EE/83D-25 ..... 12 p1811 N84-21807 #
AFIT/GE/EE/83D-26 ..... 12 p1806 N84-21773 #
AFIT/GE/EE/83D-29 ..... 12 p1880 N84-22255 #
AFIT/GE/EE/83D-30 ..... 12 p1772 N84-21558 #
AFIT/GE/EE/83D-31 ..... 12 p1805 N84-21771 #
AFIT/GE/EE/83D-32 ..... 12 p1877 N84-22232 #
AFIT/GE/EE/83D-33 ..... 12 p1805 N84-21770 #
AFIT/GE/EE/83D-35 ..... 12 p1813 N84-21816 #
AFIT/GE/EE/83D-36 ..... 12 p1770 N84-21545 #
AFIT/GE/EE/83D-39 ..... 12 p1806 N84-21775 #
AFIT/GE/EE/83D-40 ..... 19 p2964 N84-28786 #
AFIT/GE/EE/83D-41 ..... 12 p1868 N84-22172 #
AFIT/GE/EE/83D-42 ..... 12 p1891 N84-22319 #
AFIT/GE/EE/83D-43 ..... 12 p1768 N84-21533 #
AFIT/GE/EE/83D-44 ..... 12 p1812 N84-21812 #
AFIT/GE/EE/83D-47 ..... 12 p1878 N84-22237 #
AFIT/GE/EE/83D-48 ..... 12 p1882 N84-22268 #
AFIT/GE/EE/83D-49 ..... 12 p1778 N84-21600 #
AFIT/GE/EE/83D-50 ..... 12 p1865 N84-22156 #
AFIT/GE/EE/83D-51 ..... 19 p3104 N84-29718 #

AFIT/GE/EE/83D-53 ..... 18 p2920 N84-28520 #
AFIT/GE/EE/83D-57 ..... 12 p1883 N84-22275 #
AFIT/GE/EE/83D-58 ..... 12 p1806 N84-21777 #
AFIT/GE/EE/83D-58-PT-1 ..... 12 p1892 N84-22320 #
AFIT/GE/EE/83D-59 ..... 12 p1915 N84-22474 #
AFIT/GE/EE/83D-60 ..... 12 p1811 N84-21808 #
AFIT/GE/EE/83D-61 ..... 12 p1772 N84-21556 #
AFIT/GE/EE/83D-62 ..... 12 p1914 N84-22470 #
AFIT/GE/EE/83D-65 ..... 12 p1812 N84-21811 #
AFIT/GE/EE/83D-66 ..... 12 p1879 N84-22250 #
AFIT/GE/EE/83D-67 ..... 12 p1767 N84-21527 #
AFIT/GE/EE/83D-71 ..... 12 p1807 N84-21780 #
AFIT/GE/EE/83D-72 ..... 12 p1908 N84-22428 #
AFIT/GE/EE/83D-77 ..... 12 p1883 N84-22272 #
AFIT/GE/EE/83M-1 ..... 09 p1318 N84-18610 #
AFIT/GE/EE/83S-4 ..... 09 p1258 N84-18210 #
AFIT/GE/EE/83S-4 ..... 15 p2253 N84-24531 #
AFIT/GE/EE/84J-08 ..... 24 p3895 N84-34669 #
AFIT/GE/EE/84M-3 ..... 18 p2796 N84-27745 #
AFIT/GE/EE/84M-4 ..... 18 p2926 N84-28554 #
AFIT/GE/EE/84M-6 ..... 18 p2797 N84-27746 #

AFIT/GEO/EE/83D-1-PT-1 ..... 12 p1806 N84-21774 #
AFIT/GEO/EE/83D-3 ..... 12 p1818 N84-21851 #
AFIT/GEO/EE/83D-4 ..... 12 p1818 N84-21852 #
AFIT/GEO/EE/83D-6 ..... 12 p1811 N84-21809 #
AFIT/GEO/EE/84M-2 ..... 19 p3083 N84-29565 #

AFIT/GEO/PH/83D-1 ..... 12 p1820 N84-21863 #
AFIT/GEO/PH/83D-5 ..... 12 p1820 N84-21861 #

AFIT/GEP/ENP/83D-2 ..... 19 p3110 N84-29759 #

AFIT/GEP/PH/82D-27 ..... 09 p1279 N84-18351 #
AFIT/GEP/PH/83D-1 ..... 12 p1894 N84-22335 #
AFIT/GEP/PH/83D-3 ..... 12 p1894 N84-22339 #
AFIT/GEP/PH/83D-5 ..... 12 p1907 N84-22424 #
AFIT/GEP/PH/83D-8 ..... 12 p1820 N84-21862 #
AFIT/GEP/PH/83D-9 ..... 12 p1791 N84-21680 #
AFIT/GEP/PH/83D-10 ..... 12 p1792 N84-21687 #
AFIT/GEP/PH/83D-12 ..... 12 p1792 N84-21684 #
AFIT/GEP/PH/83D-14 ..... 24 p3963 N84-35099 #

AFIT/GNE/ENP/84M-11 ..... 19 p3083 N84-29563 #

AFIT/GNE/PH/83M-7 ..... 09 p1361 N84-18894 #
AFIT/GNE/PH/83M-8 ..... 09 p1280 N84-18356 #
AFIT/GNE/PH/84M-2 ..... 24 p3962 N84-35090 #
AFIT/GNE/PH/84M-4 ..... 18 p2926 N84-28557 #

AFIT/GOR/ENC/83D-6 ..... 12 p1893 N84-22333 #

AFIT/GOR/MA/83D-2 ..... 12 p1894 N84-22334 #
AFIT/GOR/MA/83D-3 ..... 12 p1896 N84-22349 #
AFIT/GOR/MA/83D-4 ..... 12 p1880 N84-22252 #

AFIT/GOR/OS/83D-2 ..... 19 p3075 N84-29509 #
AFIT/GOR/OS/83D-4 ..... 18 p2925 N84-28553 #
AFIT/GOR/OS/83D-6 ..... 19 p3115 N84-29794 #
AFIT/GOR/OS/83D-11 ..... 18 p2795 N84-27736 #

AFIT/GSO/AA/83D-1 ..... 10 p1436 N84-19386 #
AFIT/GSO/AA/83D-2 ..... 10 p1449 N84-19465 #

AFIT/GSO/EE/84M-1 ..... 18 p2900 N84-28397 #

AFIT/GSO/ENP/83D-2 ..... 18 p2846 N84-28072 #

AFIT/GSO/MA/83D-2 ..... 12 p1818 N84-21853 #

AFIT/GSO/OS/83D-1 ..... 20 p3134 N84-29898 #
AFIT/GSO/OS/83D-2 ..... 19 p3114 N84-29785 #
AFIT/GSO/OS/83D-4 ..... 18 p2921 N84-28524 #
AFIT/GSO/OS/83D-5 ..... 18 p2808 N84-27827 #
AFIT/GSO/OS/83D-6 ..... 19 p3004 N84-29037 #
AFIT/GSO/OS/83D-7 ..... 18 p2846 N84-28071 #

AFIT/GST/OS/83M-1 ..... 02 p0178 N84-11166 #
AFIT/GST/OS/84M-8 ..... 18 p2793 N84-27726 #
AFIT/GST/OS/84M-10 ..... 18 p2793 N84-27728 #
AFIT/GST/OS/84M-11 ..... 18 p2926 N84-28555 #
AFIT/GST/OS/84M-12 ..... 19 p2960 N84-28762 #

AFIT/MA/GOR/83D-5 ..... 19 p3083 N84-29564 #

AFL-83-8-67 ..... 09 p1315 N84-18592 #

AFLC-TR-82-099 ..... 02 p0169 N84-11114 #

AFLRL-165 ..... 01 p0052 N84-10337 #
AFLRL-167 ..... 10 p1502 N84-19817 #
AFLRL-168 ..... 04 p0509 N84-13337 #
AFLRL-170 ..... 10 p1467 N84-19584 #
AFLRL-171 ..... 20 p3162 N84-30078 #
AFLRL-173 ..... 20 p3161 N84-30076 #
AFLRL-175 ..... 22 p3604 N84-32833 #

AFOSR-81-5TR ..... 09 p1332 N84-18695 #
AFOSR-81-0004TR ..... 01 p0012 N84-10073 #
AFOSR-81-0154TR ..... 10 p1571 N84-20295 #
AFOSR-82-0464TR ..... 05 p0739 N84-14856 #
AFOSR-83-158TR ..... 05 p0736 N84-14833 #
AFOSR-83-159TR ..... 05 p0740 N84-14859 #
AFOSR-83-168TR ..... 22 p3648 N84-33132 #
AFOSR-83-0223TR ..... 02 p0293 N84-11923 #
AFOSR-83-0448TR ..... 02 p0284 N84-11859 #
AFOSR-83-0462TR ..... 01 p0132 N84-10866 #
AFOSR-83-0464TR ..... 01 p0083 N84-10543 #
AFOSR-83-0465TR ..... 01 p0069 N84-10453 #
AFOSR-83-0477TR ..... 01 p0129 N84-10841 #
AFOSR-83-0490TR ..... 01 p0129 N84-10842 #
AFOSR-83-0492TR ..... 01 p0136 N84-10894 #
AFOSR-83-0501TR ..... 01 p0152 N84-11001 #
AFOSR-83-0503TR ..... 01 p0138 N84-10905 #
AFOSR-83-0505TR ..... 03 p0360 N84-12344 #
AFOSR-83-0510TR ..... 03 p0427 N84-12798 #
AFOSR-83-0548TR ..... 01 p0092 N84-10600 #
AFOSR-83-0549TR ..... 01 p0028 N84-10178 #
AFOSR-83-0550TR ..... 01 p0141 N84-10924 #
AFOSR-83-0553TR ..... 01 p0146 N84-10961 #
AFOSR-83-0556TR ..... 01 p0018 N84-10113 #
AFOSR-83-0559TR ..... 01 p0141 N84-10929 #
AFOSR-83-0561TR ..... 01 p0063 N84-10413 #
AFOSR-83-0585TR ..... 01 p0156 N84-11026 #
AFOSR-83-0586TR ..... 01 p0141 N84-10925 #
AFOSR-83-0569TR ..... 05 p0703 N84-14612 #
AFOSR-83-0572TR ..... 01 p0141 N84-10926 #
AFOSR-83-0574TR ..... 01 p0083 N84-10539 #
AFOSR-83-0578TR ..... 01 p0141 N84-10927 #
AFOSR-83-0579TR ..... 01 p0084 N84-10545 #
AFOSR-83-0585TR ..... 01 p0156 N84-11025 #
AFOSR-83-0588TR ..... 01 p0066 N84-10434 #
AFOSR-83-0590TR ..... 01 p0114 N84-10739 #
AFOSR-83-0594TR ..... 01 p0096 N84-10623 #
AFOSR-83-0595TR ..... 01 p0066 N84-10428 #
AFOSR-83-0596TR ..... 01 p0044 N84-10281 #
AFOSR-83-0598TR ..... 01 p0147 N84-10965 #
AFOSR-83-0600TR ..... 01 p0011 N84-10071 #
AFOSR-83-0605TR ..... 01 p0156 N84-11027 #
AFOSR-83-0610TR ..... 01 p0105 N84-10683 #
AFOSR-83-0613TR ..... 01 p0157 N84-11032 #
AFOSR-83-0614TR ..... 03 p0457 N84-13009 #
AFOSR-83-0615TR ..... 01 p0066 N84-10431 #
AFOSR-83-0616TR ..... 02 p0231 N84-11517 #
AFOSR-83-0617TR ..... 01 p0072 N84-10470 #
AFOSR-83-0618TR ..... 01 p0066 N84-10429 #
AFOSR-83-0619TR ..... 03 p0433 N84-12837 #
AFOSR-83-0622TR ..... 02 p0223 N84-11464 #
AFOSR-83-0623TR ..... 02 p0281 N84-11842 #
AFOSR-83-0626TR ..... 01 p0123 N84-10802 #
AFOSR-83-0627TR ..... 03 p0425 N84-12782 #
AFOSR-83-0628TR ..... 01 p0133 N84-10870 #
AFOSR-83-0629TR ..... 02 p0294 N84-11930 #
AFOSR-83-0630TR ..... 01 p0153 N84-11006 #
AFOSR-83-0632TR ..... 02 p0249 N84-11629 #
AFOSR-83-0633TR ..... 01 p0140 N84-10917 #
AFOSR-83-0637TR ..... 03 p0444 N84-12918 #
AFOSR-83-0644TR ..... 02 p0294 N84-11928 #
AFOSR-83-0646TR ..... 02 p0298 N84-11955 #
AFOSR-83-0647TR ..... 03 p0433 N84-12834 #
AFOSR-83-0649TR ..... 01 p0012 N84-10075 #
AFOSR-83-0650TR ..... 02 p0295 N84-11931 #
AFOSR-83-0653TR ..... 02 p0206 N84-11341 #
AFOSR-83-0655TR ..... 02 p0175 N84-11149 #
AFOSR-83-0656TR ..... 02 p0209 N84-11366 #
AFOSR-83-0657TR ..... 02 p0272 N84-11777 #
AFOSR-83-0658TR ..... 02 p0278 N84-11821 #
AFOSR-83-0659TR ..... 02 p0272 N84-11782 #
AFOSR-83-0660TR ..... 02 p0279 N84-11826 #
AFOSR-83-0661TR ..... 02 p0280 N84-11836 #
AFOSR-83-0663TR ..... 02 p0294 N84-11926 #
AFOSR-83-0664TR ..... 02 p0296 N84-11938 #
AFOSR-83-0666TR ..... 03 p0428 N84-12808 #
AFOSR-83-0667TR ..... 01 p0123 N84-10803 #
AFOSR-83-0669TR ..... 01 p0050 N84-10324 #
AFOSR-83-0671TR ..... 01 p0134 N84-10875 #
AFOSR-83-0673TR ..... 01 p0134 N84-10877 #
AFOSR-83-0675TR ..... 02 p0273 N84-11785 #
AFOSR-83-0676TR ..... 03 p0371 N84-12418 #
AFOSR-83-0677TR ..... 01 p0072 N84-10471 #
AFOSR-83-0678TR ..... 03 p0360 N84-12340 #
AFOSR-83-0679TR ..... 02 p0231 N84-11519 #
AFOSR-83-0681TR ..... 01 p0142 N84-10932 #
AFOSR-83-0683TR ..... 02 p0282 N84-11845 #
AFOSR-83-0684TR ..... 02 p0281 N84-11844 #
AFOSR-83-0685TR ..... 03 p0452 N84-12978 #
AFOSR-83-0686TR ..... 02 p0273 N84-11787 #
AFOSR-83-0687TR ..... 03 p0424 N84-12771 #
AFOSR-83-0688TR ..... 03 p0427 N84-12799 #
AFOSR-83-0689TR ..... 03 p0417 N84-12727* #
AFOSR-83-0692TR ..... 01 p0133 N84-10874 #
AFOSR-83-0693TR ..... 03 p0417 N84-12728 #
AFOSR-83-0694TR ..... 03 p0379 N84-12466 #

AFOSR-83-0697TR ..... 03 p0425 N84-12787 #
AFOSR-83-0705TR ..... 03 p0346 N84-12251 #
AFOSR-83-0709TR ..... 01 p0044 N84-10263 #
AFOSR-83-0711TR ..... 03 p0408 N84-12671 #
AFOSR-83-0713TR ..... 03 p0379 N84-12467 #
AFOSR-83-0715TR ..... 03 p0452 N84-12974 #
AFOSR-83-0717TR ..... 03 p0360 N84-12471 #
AFOSR-83-0720TR ..... 03 p0433 N84-12836 #
AFOSR-83-0721TR ..... 03 p0349 N84-12270 #
AFOSR-83-0723TR ..... 02 p0194 N84-11261 #
AFOSR-83-0724TR ..... 02 p0194 N84-11260 #
AFOSR-83-0725TR ..... 02 p0289 N84-11894 #
AFOSR-83-0733TR ..... 03 p0379 N84-12470 #
AFOSR-83-0737TR ..... 05 p0632 N84-14151 #
AFOSR-83-0743TR ..... 06 p0915 N84-15946 #
AFOSR-83-0744TR ..... 05 p0653 N84-14294 #
AFOSR-83-0745TR ..... 05 p0654 N84-14297 #
AFOSR-83-0746TR ..... 06 p0901 N84-15845 #
AFOSR-83-0747TR ..... 06 p0914 N84-15943 #
AFOSR-83-0748TR ..... 05 p0674 N84-14432 #
AFOSR-83-0760TR ..... 05 p0753 N84-14936 #
AFOSR-83-0761TR ..... 05 p0645 N84-14244 #
AFOSR-83-0762TR ..... 05 p0753 N84-14937 #
AFOSR-83-0764TR ..... 05 p0648 N84-14260 #
AFOSR-83-0765TR ..... 05 p0647 N84-14257 #
AFOSR-83-0766TR ..... 05 p0674 N84-14431 #
AFOSR-83-0767TR ..... 05 p0752 N84-14935 #
AFOSR-83-0769TR ..... 05 p0739 N84-14855 #
AFOSR-83-0770TR ..... 05 p0739 N84-14857 #
AFOSR-83-0771TR ..... 05 p0732 N84-14808 #
AFOSR-83-0772TR ..... 06 p0901 N84-15846 #
AFOSR-83-0773TR ..... 06 p0904 N84-15868 #
AFOSR-83-0775TR ..... 06 p0904 N84-15867 #
AFOSR-83-0776TR ..... 06 p0901 N84-15847 #
AFOSR-83-0779TR ..... 05 p0726 N84-14764 #
AFOSR-83-0780TR ..... 05 p0733 N84-14815 #
AFOSR-83-0781TR ..... 06 p0900 N84-15842 #
AFOSR-83-0782TR ..... 06 p0895 N84-15812 #
AFOSR-83-0783TR ..... 06 p0850 N84-15544 #
AFOSR-83-0785TR ..... 05 p0648 N84-14261 #
AFOSR-83-0790TR ..... 05 p0753 N84-14940 #
AFOSR-83-0794TR ..... 06 p0920 N84-15983 #
AFOSR-83-0796TR ..... 05 p0674 N84-14430 #
AFOSR-83-0797TR ..... 05 p0747 N84-14903 #
AFOSR-83-0798TR ..... 05 p0753 N84-14939 #
AFOSR-83-0800TR ..... 05 p0674 N84-14428 #
AFOSR-83-0802TR ..... 05 p0743 N84-14881 #
AFOSR-83-0803TR ..... 05 p0649 N84-14267 #
AFOSR-83-0804TR ..... 05 p0744 N84-14886 #
AFOSR-83-0806TR ..... 05 p0680 N84-14469 #
AFOSR-83-0807TR ..... 06 p0889 N84-15779 #
AFOSR-83-0808TR ..... 06 p0889 N84-15775 #
AFOSR-83-0810TR ..... 05 p0734 N84-14821 #
AFOSR-83-0816TR ..... 05 p0749 N84-14918 #
AFOSR-83-0818TR ..... 09 p1382 N84-19028 #
AFOSR-83-0819TR ..... 05 p0735 N84-14824 #
AFOSR-83-0822TR ..... 05 p0740 N84-14859 #
AFOSR-83-0823TR ..... 05 p0735 N84-14825 #
AFOSR-83-0824TR ..... 05 p0734 N84-14822 #
AFOSR-83-0825TR ..... 05 p0742 N84-14877 #
AFOSR-83-0826TR ..... 06 p0806 N84-15250 #
AFOSR-83-0827TR ..... 06 p0806 N84-15253 #
AFOSR-83-0831TR ..... 06 p0888 N84-15773 #
AFOSR-83-0832TR ..... 06 p0888 N84-15770 #
AFOSR-83-0834TR ..... 06 p0869 N84-15776 #
AFOSR-83-0836TR ..... 14 p2189 N84-24115 #
AFOSR-83-0839TR ..... 05 p0667 N84-14366 #
AFOSR-83-0840TR ..... 05 p0680 N84-14468 #
AFOSR-83-0841TR ..... 05 p0680 N84-14467 #
AFOSR-83-0842TR ..... 05 p0653 N84-14295 #
AFOSR-83-0843TR ..... 06 p0940 N84-16109 #
AFOSR-83-0845TR ..... 05 p0653 N84-14296 #
AFOSR-83-0848TR ..... 06 p0940 N84-16110 #
AFOSR-83-0849TR ..... 05 p0752 N84-14934 #
AFOSR-83-0850TR ..... 05 p0684 N84-14499 #
AFOSR-83-0851TR ..... 05 p0713 N84-14673 #
AFOSR-83-0852TR ..... 05 p0667 N84-14365 #
AFOSR-83-0854TR ..... 06 p0888 N84-15772 #
AFOSR-83-0855TR ..... 05 p0692 N84-14546 #
AFOSR-83-0856TR ..... 05 p0679 N84-14466 #
AFOSR-83-0857TR ..... 05 p0734 N84-14819 #
AFOSR-83-0858TR ..... 05 p0627 N84-14124 #
AFOSR-83-0859TR ..... 06 p0888 N84-15771 #
AFOSR-83-0860TR ..... 05 p0734 N84-14818 #
AFOSR-83-0861TR ..... 05 p0645 N84-14242 #
AFOSR-83-0862TR ..... 05 p0648 N84-14263 #
AFOSR-83-0863TR ..... 07 p1016 N84-16592 #
AFOSR-83-0864TR ..... 05 p0648 N84-14264 #
AFOSR-83-0865TR ..... 05 p0647 N84-14258 #
AFOSR-83-0866TR ..... 05 p0648 N84-14259 #
AFOSR-83-0867TR ..... 05 p0692 N84-14545 #
AFOSR-83-0868TR ..... 05 p0744 N84-14885 #
AFOSR-83-0869TR ..... 05 p0680 N84-14471 #
AFOSR-83-0870TR ..... 05 p0693 N84-14549 #
AFOSR-83-0871TR ..... 05 p0693 N84-14548 #
AFOSR-83-0872TR ..... 05 p0632 N84-14152 #
AFOSR-83-0873TR ..... 08 p1123 N84-17303 #
AFOSR-83-0874TR ..... 07 p1054 N84-16827 #
AFOSR-83-0875TR ..... 05 p0631 N84-14150 #
AFOSR-83-0876TR ..... 05 p0692 N84-14547 #
AFOSR-83-0877TR ..... 08 p1215 N84-17930 #
AFOSR-83-0878TR ..... 08 p1218 N84-17951 #
AFOSR-83-0879TR ..... 08 p1232 N84-18054 #
AFOSR-83-0881TR ..... 08 p1218 N84-17952 #
AFOSR-83-0884TR ..... 09 p1254 N84-18186 #
AFOSR-83-0896TR ..... 08 p1099 N84-17146 #
AFOSR-83-0900TR ..... 08 p1124 N84-17304 #
AFOSR-83-0901TR ..... 10 p1548 N84-20147 #
AFOSR-83-0902TR ..... 09 p1362 N84-18897 #
AFOSR-83-0905TR ..... 08 p1219 N84-17958 #
AFOSR-83-0906TR ..... 08 p1218 N84-17945 #
AFOSR-83-0907TR ..... 08 p1234 N84-18068 #
AFOSR-83-0921TR ..... 08 p1136 N84-17391 #
AFOSR-83-0923TR ..... 08 p1158 N84-17538 #
AFOSR-83-0926TR ..... 08 p1218 N84-17947 #
AFOSR-83-0927TR ..... 08 p1218 N84-17946 #
AFOSR-83-0928TR ..... 08 p1157 N84-17536 #
AFOSR-83-0929TR ..... 08 p1158 N84-17537 #
AFOSR-83-0930TR ..... 08 p1215 N84-17927 #
AFOSR-83-0931TR ..... 08 p1159 N84-17548 #
AFOSR-83-0932TR ..... 08 p1219 N84-17953 #
AFOSR-83-0934TR ..... 08 p1219 N84-17955 #
AFOSR-83-0935TR ..... 08 p1223 N84-17984 #
AFOSR-83-0936TR ..... 08 p1238 N84-18091 #
AFOSR-83-0944TR ..... 08 p1218 N84-17950 #
AFOSR-83-0945TR ..... 08 p1228 N84-18027 #
AFOSR-83-0949TR ..... 08 p1170 N84-17624 #
AFOSR-83-0952TR ..... 08 p1215 N84-17928 #
AFOSR-83-0954TR ..... 08 p1218 N84-17949 #
AFOSR-83-0955TR ..... 08 p1218 N84-17948 #
AFOSR-83-0959TR ..... 08 p1209 N84-17887 #
AFOSR-83-0960TR ..... 08 p1240 N84-18104 #
AFOSR-83-0961TR ..... 08 p1211 N84-17902 #
AFOSR-83-0962TR ..... 09 p1404 N84-19176 #
AFOSR-83-0967TR ..... 08 p1150 N84-17484 #
AFOSR-83-0969TR ..... 08 p1212 N84-17905 #
AFOSR-83-0971TR ..... 08 p1219 N84-17956 #
AFOSR-83-0974TR ..... 09 p1334 N84-18708 #
AFOSR-83-0975TR ..... 08 p1219 N84-17959 #
AFOSR-83-0981TR ..... 08 p1104 N84-17179 #
AFOSR-83-0982TR ..... 08 p1219 N84-17954 #
AFOSR-83-0983TR ..... 08 p1240 N84-18106 #
AFOSR-83-0987TR ..... 08 p1166 N84-17594 #
AFOSR-83-0989TR ..... 08 p1212 N84-17904 #
AFOSR-83-0990TR ..... 08 p1223 N84-17986 #
AFOSR-83-0992TR ..... 09 p1391 N84-19084 #
AFOSR-83-0993TR ..... 08 p1240 N84-18105 #
AFOSR-83-0997TR ..... 09 p1396 N84-19115 #
AFOSR-83-0999TR ..... 08 p1200 N84-17822 #
AFOSR-83-1014TR ..... 09 p1362 N84-18899 #
AFOSR-83-1015TR ..... 08 p1232 N84-18049 #
AFOSR-83-1016TR ..... 08 p1202 N84-17839 #
AFOSR-83-1024TR ..... 08 p1158 N84-17539 #
AFOSR-83-1045TR ..... 09 p1252 N84-18175 #
AFOSR-83-1048TR ..... 09 p1389 N84-19069 #
AFOSR-83-1053TR ..... 09 p1315 N84-18592 #
AFOSR-83-1054TR ..... 09 p1322 N84-18639 #
AFOSR-83-1057TR ..... 09 p1385 N84-19047 #
AFOSR-83-1058TR ..... 09 p1318 N84-18612 #
AFOSR-83-1060TR ..... 09 p1368 N84-18930 #
AFOSR-83-1061TR ..... 09 p1332 N84-18694 #
AFOSR-83-1062TR ..... 09 p1333 N84-18701 #
AFOSR-83-1064TR ..... 09 p1332 N84-18696 #
AFOSR-83-1074TR ..... 09 p1288 N84-18408 #
AFOSR-83-1075TR ..... 09 p1396 N84-19121 #
AFOSR-83-1076TR ..... 09 p1309 N84-18559 #
AFOSR-83-1077TR ..... 09 p1373 N84-18963 #
AFOSR-83-1092TR ..... 09 p1316 N84-18597 #
AFOSR-83-1093TR ..... 09 p1390 N84-19077 #
AFOSR-83-1096TR ..... 09 p1323 N84-18646 #
AFOSR-83-1097TR ..... 09 p1280 N84-18358 #
AFOSR-83-1099TR ..... 09 p1397 N84-19123 #
AFOSR-83-1100TR ..... 09 p1390 N84-19078 #
AFOSR-83-1101TR ..... 09 p1392 N84-19088 #
AFOSR-83-1103TR ..... 09 p1254 N84-18188 #
AFOSR-83-1107TR ..... 09 p1323 N84-18645 #
AFOSR-83-1108TR ..... 09 p1395 N84-19113 #
AFOSR-83-1110TR ..... 09 p1303 N84-18521 #
AFOSR-83-1119TR ..... 09 p1345 N84-18791 #
AFOSR-83-1122TR ..... 16 p2547 N84-26345 #
AFOSR-83-1125TR ..... 09 p1379 N84-19007 #
AFOSR-83-1132TR ..... 09 p1306 N84-18538 #
AFOSR-83-1133TR ..... 09 p1316 N84-18599 #
AFOSR-83-1134TR ..... 09 p1323 N84-18643 #
AFOSR-83-1136TR-VOL-1 ..... 09 p1320 N84-18621 #
AFOSR-83-1136TR-VOL-2 ..... 09 p1320 N84-18622 #
AFOSR-83-1136TR-VOL-3 ..... 09 p1320 N84-18623 #
AFOSR-83-1138TR ..... 10 p1597 N84-20466 #
AFOSR-83-1140TR ..... 09 p1418 N84-19275 #
AFOSR-83-1144TR ..... 09 p1284 N84-18387 #
AFOSR-83-1145TR ..... 09 p1287 N84-18404 #
AFOSR-83-1147TR ..... 09 p1378 N84-18999 #

AFOSR-83-1150TR ..... 09 p1369 N84-18937 #
AFOSR-83-1154TR ..... 09 p1384 N84-19039 #
AFOSR-83-1172TR ..... 09 p1309 N84-18557 #
AFOSR-83-1173TR ..... 09 p1333 N84-18705 #
AFOSR-83-1198TR ..... 09 p1283 N84-18383 #
AFOSR-83-1199TR ..... 15 p2337 N84-25030 #
AFOSR-83-1201TR ..... 10 p1498 N84-19789 #
AFOSR-83-1202TR ..... 09 p1283 N84-18379 #
AFOSR-83-1203TR ..... 09 p1249 N84-18155 #
AFOSR-83-1204TR ..... 09 p1321 N84-18627 #
AFOSR-83-1211TR ..... 09 p1313 N84-18583 #
AFOSR-83-1214TR ..... 09 p1306 N84-18539 #
AFOSR-83-1215TR ..... 17 p2663 N84-26992 #
AFOSR-83-1216TR ..... 09 p1278 N84-18343 #
AFOSR-83-1217TR ..... 09 p1314 N84-18585 #
AFOSR-83-1220TR ..... 09 p1278 N84-18342 #
AFOSR-83-1224TR ..... 09 p1278 N84-18344 #
AFOSR-83-1225TR ..... 09 p1314 N84-18584 #
AFOSR-83-1226TR ..... 09 p1330 N84-18687 #
AFOSR-83-1227TR ..... 09 p1385 N84-19045 #
AFOSR-83-1230TR ..... 09 p1331 N84-18688 #
AFOSR-83-1231TR ..... 09 p1365 N84-18910 #
AFOSR-83-1233TR ..... 09 p1382 N84-19025 #
AFOSR-83-1234TR ..... 09 p1381 N84-19018 #
AFOSR-83-1235TR ..... 09 p1320 N84-18625 #
AFOSR-83-1237TR ..... 09 p1376 N84-18989 #
AFOSR-83-1238TR ..... 09 p1299 N84-18494 #
AFOSR-83-1239TR ..... 09 p1382 N84-19024 #
AFOSR-83-1240TR ..... 09 p1376 N84-18987 #
AFOSR-83-1242TR ..... 09 p1404 N84-19171 #
AFOSR-83-1243TR ..... 09 p1376 N84-18990 #
AFOSR-83-1244TR ..... 09 p1384 N84-19038 #
AFOSR-83-1246TR ..... 09 p1365 N84-18913 #
AFOSR-83-1249TR ..... 09 p1381 N84-19022 #
AFOSR-83-1252TR ..... 09 p1367 N84-18923 #
AFOSR-83-1253TR ..... 09 p1404 N84-19170 #
AFOSR-83-1255TR ..... 09 p1321 N84-18634 #
AFOSR-83-1256TR ..... 10 p1572 N84-20298 #
AFOSR-83-1257TR ..... 09 p1397 N84-19125 #
AFOSR-83-1258TR ..... 09 p1384 N84-19042 #
AFOSR-83-1260TR ..... 09 p1376 N84-18986 #
AFOSR-83-1270TR ..... 09 p1384 N84-19041 #
AFOSR-83-1271TR ..... 09 p1376 N84-18985 #
AFOSR-83-1272TR ..... 09 p1299 N84-18492 #
AFOSR-83-1273TR ..... 09 p1299 N84-18493 #
AFOSR-83-1274TR ..... 09 p1314 N84-18588 #
AFOSR-83-1277TR ..... 09 p1382 N84-19023 #
AFOSR-83-1278TR ..... 09 p1327 N84-18667 #
AFOSR-83-1282TR ..... 10 p1493 N84-19761 #
AFOSR-83-1283TR ..... 10 p1422 N84-19298 #
AFOSR-83-1284TR ..... 10 p1571 N84-20295 #
AFOSR-83-1286TR ..... 10 p1498 N84-19788 #
AFOSR-83-1287TR ..... 10 p1422 N84-19299 #
AFOSR-83-1288TR ..... 10 p1493 N84-19763 #
AFOSR-83-1289TR ..... 10 p1571 N84-20296 #
AFOSR-83-1295TR ..... 10 p1579 N84-20344 #
AFOSR-83-1296TR ..... 10 p1571 N84-20291 #
AFOSR-83-1298TR ..... 10 p1455 N84-19505 #
AFOSR-83-1299TR ..... 10 p1588 N84-20405 #
AFOSR-83-1309TR ..... 10 p1562 N84-20234 #
AFOSR-83-1310TR ..... 11 p1708 N84-21131 #
AFOSR-83-1311TR ..... 10 p1468 N84-19586 #
AFOSR-83-1314TR ..... 10 p1579 N84-20345 #
AFOSR-83-1316TR ..... 10 p1575 N84-20323 #
AFOSR-83-1319TR ..... 10 p1570 N84-20290 #
AFOSR-83-1321TR ..... 10 p1493 N84-19765 #
AFOSR-83-1323TR ..... 10 p1571 N84-20292 #
AFOSR-83-1331TR ..... 10 p1562 N84-20235 #
AFOSR-83-1333TR ..... 10 p1569 N84-20276 #
AFOSR-83-1336TR ..... 10 p1493 N84-19764 #
AFOSR-83-1340TR ..... 10 p1555 N84-20191 #
AFOSR-83-1341TR ..... 10 p1518 N84-19935 #
AFOSR-83-1344TR ..... 10 p1422 N84-19300 #
AFOSR-83-1346TR ..... 10 p1573 N84-20312 #
AFOSR-83-1347TR ..... 10 p1585 N84-20390 #
AFOSR-83-1348TR ..... 10 p1491 N84-19750 #
AFOSR-84-0001TR ..... 10 p1452 N84-19486 #
AFOSR-84-0002TR ..... 10 p1579 N84-20343 #
AFOSR-84-0004TR ..... 10 p1564 N84-20246 #
AFOSR-84-0005TR ..... 10 p1564 N84-20245 #
AFOSR-84-0006TR ..... 10 p1571 N84-20294 #
AFOSR-84-0011TR ..... 11 p1717 N84-21202 #
AFOSR-84-0012TR ..... 11 p1668 N84-20886 #
AFOSR-84-0019TR ..... 11 p1695 N84-21057 #
AFOSR-84-0022TR ..... 11 p1695 N84-21059 #
AFOSR-84-0024TR ..... 11 p1643 N84-20744 #
AFOSR-84-0027TR ..... 11 p1730 N84-21285 #
AFOSR-84-0030TR ..... 11 p1718 N84-21208 #
AFOSR-84-0031TR ..... 11 p1641 N84-20730 #
AFOSR-84-0033TR ..... 11 p1750 N84-21422 #
AFOSR-84-0034TR ..... 11 p1750 N84-21420 #
AFOSR-84-0036TR ..... 11 p1713 N84-21171 #
AFOSR-84-0037TR ..... 11 p1714 N84-21174 #
AFOSR-84-0039TR ..... 11 p1750 N84-21421 #
AFOSR-84-0040TR ..... 11 p1713 N84-21172 #
AFOSR-84-0046TR ..... 11 p1707 N84-21125 #
AFOSR-84-0048TR ..... 11 p1713 N84-21169 #
AFOSR-84-0051TR ..... 11 p1702 N84-21100 #
AFOSR-84-0052TR ..... 11 p1683 N84-20850 #
AFOSR-84-0053TR ..... 11 p1714 N84-21175 #
AFOSR-84-0055TR ..... 11 p1680 N84-20830 #
AFOSR-84-0059TR ..... 11 p1681 N84-20973 #
AFOSR-84-0060TR ..... 11 p1682 N84-20979 #
AFOSR-84-0064TR ..... 11 p1730 N84-21284 #
AFOSR-84-0067TR ..... 11 p1603 N84-20498 #
AFOSR-84-0091TR ..... 11 p1628 N84-20655 #
AFOSR-84-0092TR ..... 11 p1730 N84-21286 #
AFOSR-84-0094TR ..... 11 p1682 N84-20847 #
AFOSR-84-0096TR ..... 11 p1663 N84-20848 #
AFOSR-84-0097TR ..... 11 p1662 N84-20846 #
AFOSR-84-0099TR ..... 11 p1663 N84-20849 #
AFOSR-84-0101TR ..... 13 p1995 N84-22946 #
AFOSR-84-0103TR ..... 13 p1995 N84-22949 #
AFOSR-84-0105TR ..... 13 p2043 N84-23255 #
AFOSR-84-0108TR ..... 13 p1989 N84-22915 #
AFOSR-84-0109TR ..... 13 p1933 N84-22569 #
AFOSR-84-0110TR ..... 13 p1927 N84-22539 #
AFOSR-84-0111TR ..... 13 p1960 N84-22738 #
AFOSR-84-0113TR ..... 13 p1990 N84-22916 #
AFOSR-84-0114TR ..... 14 p2231 N84-24381 #
AFOSR-84-0115TR ..... 13 p1989 N84-22914 #
AFOSR-84-0123TR ..... 13 p2036 N84-23209 #
AFOSR-84-0124TR ..... 13 p2044 N84-23268 #
AFOSR-84-0125TR ..... 13 p2020 N84-23098 #
AFOSR-84-0126TR ..... 13 p1930 N84-22554 #
AFOSR-84-0127TR ..... 13 p2021 N84-23107 #
AFOSR-84-0129TR ..... 16 p2557 N84-26405 #
AFOSR-84-0130TR ..... 13 p1990 N84-22917 #
AFOSR-84-0140TR ..... 13 p1983 N84-22674 #
AFOSR-84-0141TR ..... 13 p2043 N84-23256 #
AFOSR-84-0142TR ..... 13 p2033 N84-23184 #
AFOSR-84-0143TR ..... 13 p2043 N84-23254 #
AFOSR-84-0147TR ..... 14 p2150 N84-23882 #
AFOSR-84-0151TR ..... 14 p2245 N84-24483 #
AFOSR-84-0153TR ..... 14 p2245 N84-24484 #
AFOSR-84-0154TR ..... 14 p2245 N84-24485 #
AFOSR-84-0155TR ..... 14 p2246 N84-24486 #
AFOSR-84-0156TR ..... 14 p2224 N84-24350 #
AFOSR-84-0157TR ..... 15 p2428 N84-25586 #
AFOSR-84-0158TR ..... 14 p2132 N84-23778 #
AFOSR-84-0159TR ..... 14 p2250 N84-24513 #
AFOSR-84-0160TR ..... 20 p3184 N84-30232 #
AFOSR-84-0161TR ..... 14 p2134 N84-23790 #
AFOSR-84-0162TR ..... 14 p2222 N84-24333 #
AFOSR-84-0163TR ..... 14 p2128 N84-23756 #
AFOSR-84-0164TR ..... 14 p2127 N84-23754 #
AFOSR-84-0165TR ..... 14 p2158 N84-23928 #
AFOSR-84-0166TR ..... 14 p2134 N84-23791 #
AFOSR-84-0167TR ..... 14 p2132 N84-23776 #
AFOSR-84-0168TR ..... 14 p2120 N84-23706 #
AFOSR-84-0171TR ..... 14 p2156 N84-23917 #
AFOSR-84-0172TR ..... 14 p2203 N84-24220 #
AFOSR-84-0173TR ..... 14 p2205 N84-24234 #
AFOSR-84-0174TR ..... 14 p2142 N84-23843 #
AFOSR-84-0175TR ..... 15 p2397 N84-25384 #
AFOSR-84-0176TR ..... 15 p2407 N84-25452 #
AFOSR-84-0177TR ..... 15 p2400 N84-25400 #
AFOSR-84-0178TR ..... 15 p2336 N84-25025 #
AFOSR-84-0179TR ..... 15 p2400 N84-25404 #
AFOSR-84-0180TR ..... 15 p2398 N84-25386 #
AFOSR-84-0181TR ..... 15 p2398 N84-25385 #
AFOSR-84-0182TR ..... 15 p2383 N84-25269 #
AFOSR-84-0183TR ..... 15 p2379 N84-25278 #
AFOSR-84-0184TR ..... 15 p2332 N84-25007 #
AFOSR-84-0185TR ..... 15 p2384 N84-25300 #
AFOSR-84-0228TR ..... 16 p2558 N84-26412 #
AFOSR-84-0230TR ..... 15 p2328 N84-24979 #
AFOSR-84-0230TR ..... 15 p2328 N84-24980 #
AFOSR-84-0230TR ..... 15 p2328 N84-24981 #
AFOSR-84-0231TR ..... 15 p2413 N84-25484 #
AFOSR-84-0242TR ..... 16 p2565 N84-26459 #
AFOSR-84-0246TR ..... 16 p2493 N84-25996 #
AFOSR-84-0248TR ..... 16 p2493 N84-25994 #
AFOSR-84-0249TR ..... 16 p2493 N84-25997 #
AFOSR-84-0250TR ..... 17 p2624 N84-26797 #
AFOSR-84-0251TR ..... 17 p2601 N84-26670 #
AFOSR-84-0252TR ..... 16 p2556 N84-26397 #
AFOSR-84-0253TR ..... 17 p2623 N84-26789 #
AFOSR-84-0254TR ..... 16 p2497 N84-26024 #
AFOSR-84-0256TR ..... 17 p2663 N84-26989 #
AFOSR-84-0257TR ..... 16 p2558 N84-26414 #
AFOSR-84-0260TR ..... 17 p2727 N84-27359 #
AFOSR-84-0262TR ..... 16 p2502 N84-26060 #
AFOSR-84-0263TR ..... 17 p2619 N84-26762 #
AFOSR-84-0279TR ..... 16 p2538 N84-26296 #
AFOSR-84-0285TR ..... 16 p2550 N84-26364 #
AFOSR-84-0290TR ..... 16 p2550 N84-26365 #
AFOSR-84-0291TR ..... 19 p3085 N84-29578 #
AFOSR-84-0297TR ..... 18 p2921 N84-28525 #
AFOSR-84-0309TR ..... 19 p3079 N84-29534 #
AFOSR-84-0332TR ..... 19 p3110 N84-29760 #
AFOSR-84-0333TR ..... 19 p3029 N84-29209 #

AFOSR-84-0334TR ..... 19 p3053 N84-29377 #
AFOSR-84-0335TR ..... 20 p3173 N84-30150 #
AFOSR-84-0337TR ..... 19 p3090 N84-29619 #
AFOSR-84-0339TR ..... 19 p2993 N84-28967 #
AFOSR-84-0340TR ..... 19 p3058 N84-29400 #
AFOSR-84-0342TR ..... 18 p2811 N84-27846 #
AFOSR-84-0343TR ..... 18 p2811 N84-27845 #
AFOSR-84-0344TR ..... 18 p2876 N84-28259 #
AFOSR-84-0345TR ..... 18 p2880 N84-28263 #
AFOSR-84-0347TR ..... 19 p3079 N84-29536 #
AFOSR-84-0348TR ..... 19 p3007 N84-29062 #
AFOSR-84-0349TR ..... 19 p3016 N84-29120 #
AFOSR-84-0353TR ..... 19 p3016 N84-29122 #
AFOSR-84-0354TR ..... 19 p3090 N84-29615 #
AFOSR-84-0355TR ..... 19 p3008 N84-29069 #
AFOSR-84-0356TR ..... 18 p2926 N84-28556 #
AFOSR-84-0357TR ..... 19 p2993 N84-28966 #
AFOSR-84-0358TR ..... 19 p3116 N84-29797 #
AFOSR-84-0360TR ..... 19 p3085 N84-29579 #
AFOSR-84-0361TR ..... 19 p3115 N84-29795 #
AFOSR-84-0363TR ..... 18 p2837 N84-28006 #
AFOSR-84-0364TR ..... 18 p2829 N84-27958 #
AFOSR-84-0367TR ..... 19 p3095 N84-29657 #
AFOSR-84-0377TR ..... 19 p3072 N84-29487 #
AFOSR-84-0382TR ..... 24 p3969 N84-35130 #
AFOSR-84-0383TR ..... 18 p2940 N84-28649 #
AFOSR-84-0384TR ..... 18 p2811 N84-27842 #
AFOSR-84-0385TR ..... 18 p2846 N84-28069 #
AFOSR-84-0387TR ..... 18 p2814 N84-27862 #
AFOSR-84-0388TR ..... 18 p2879 N84-28281 #
AFOSR-84-0390TR ..... 18 p2810 N84-27841 #
AFOSR-84-0391TR ..... 18 p2924 N84-28541 #
AFOSR-84-0392TR ..... 19 p3004 N84-29038 #
AFOSR-84-0395TR ..... 18 p2925 N84-28549 #
AFOSR-84-0396TR ..... 18 p2923 N84-28540 #
AFOSR-84-0397TR ..... 18 p2900 N84-28394 #
AFOSR-84-0398TR ..... 18 p2899 N84-28393 #
AFOSR-84-0399TR ..... 18 p2914 N84-28481 #
AFOSR-84-0400TR ..... 20 p3259 N84-30685 #
AFOSR-84-0401TR ..... 18 p2925 N84-28547 #
AFOSR-84-0403TR ..... 18 p2925 N84-28546 #
AFOSR-84-0404TR ..... 19 p3013 N84-29096 #
AFOSR-84-0417TR ..... 19 p2966 N84-28798 #
AFOSR-84-0418TR ..... 19 p2966 N84-28797 #
AFOSR-84-0423TR ..... 19 p3036 N84-29258 #
AFOSR-84-0424TR ..... 19 p3029 N84-29212 #
AFOSR-84-0425TR ..... 19 p3101 N84-29699 #
AFOSR-84-0427TR ..... 19 p3065 N84-29446 #
AFOSR-84-0430TR ..... 18 p2796 N84-27741 #
AFOSR-84-0431TR ..... 19 p3036 N84-29256 #
AFOSR-84-0432TR ..... 19 p3035 N84-29254 #
AFOSR-84-0433TR ..... 19 p2994 N84-28974 #
AFOSR-84-0435TR ..... 19 p3110 N84-29763 #
AFOSR-84-0439TR ..... 19 p2985 N84-28913 #
AFOSR-84-0446TR ..... 19 p3110 N84-29762 #
AFOSR-84-0447TR ..... 19 p3013 N84-29101 #
AFOSR-84-0448TR ..... 19 p2982 N84-28896 #
AFOSR-84-0450TR ..... 19 p3090 N84-29618* #
AFOSR-84-0451TR ..... 20 p3280 N84-30820 #
AFOSR-84-0453TR ..... 19 p3081 N84-29549 #
AFOSR-84-0455TR ..... 19 p3115 N84-29791 #
AFOSR-84-0457TR ..... 19 p3042 N84-29300 #
AFOSR-84-0458TR ..... 20 p3283 N84-30847 #
AFOSR-84-0461TR ..... 19 p3090 N84-29617 #
AFOSR-84-0462TR ..... 19 p3089 N84-29614 #
AFOSR-84-0463TR ..... 19 p3007 N84-29063 #
AFOSR-84-0464TR ..... 19 p3079 N84-29535 #
AFOSR-84-0465TR ..... 19 p3089 N84-29613 #
AFOSR-84-0468TR ..... 19 p3042 N84-29302 #
AFOSR-84-0469TR ..... 19 p3008 N84-29067 #
AFOSR-84-0472TR ..... 19 p3042 N84-29301 #
AFOSR-84-0473TR ..... 19 p3093 N84-29645 #
AFOSR-84-0474TR ..... 19 p3008 N84-29070 #
AFOSR-84-0476TR ..... 19 p3008 N84-29068 #
AFOSR-84-0477TR ..... 19 p3042 N84-29303 #
AFOSR-84-0481TR ..... 19 p3068 N84-29463 #
AFOSR-84-0482TR ..... 19 p3066 N84-29450 #
AFOSR-84-0487TR ..... 24 p3951 N84-35017 #
AFOSR-84-0488TR ..... 24 p3896 N84-34683 #
AFOSR-84-0502TR ..... 20 p3291 N84-30894 #
AFOSR-84-0504TR ..... 20 p3281 N84-30832 #
AFOSR-84-0506TR ..... 20 p3279 N84-30812 #
AFOSR-84-0507TR ..... 23 p3818 N84-34209 #
AFOSR-84-0508TR ..... 20 p3281 N84-30831 #
AFOSR-84-0509TR ..... 20 p3153 N84-30024 #
AFOSR-84-0510TR ..... 20 p3241 N84-30573 #
AFOSR-84-0515TR ..... 21 p3386 N84-31486 #
AFOSR-84-0517TR ..... 20 p3273 N84-30776 #
AFOSR-84-0518TR ..... 23 p3818 N84-34206 #
AFOSR-84-0520TR ..... 21 p3461 N84-31947 #
AFOSR-84-0527TR ..... 20 p3260 N84-30689 #
AFOSR-84-0528TR ..... 21 p3386 N84-31488 #
AFOSR-84-0530TR ..... 21 p3366 N84-31353 #
AFOSR-84-0531TR ..... 21 p3422 N84-31705 #
AFOSR-84-0538TR ..... 20 p3300 N84-30956 #
AFOSR-84-0539TR ..... 20 p3189 N84-30258 #
AFOSR-84-0540TR ..... 21 p3443 N84-31848 #
AFOSR-84-0543TR ..... 20 p3292 N84-30901 #
AFOSR-84-0544TR ..... 21 p3497 N84-32163 #
AFOSR-84-0546TR ..... 20 p3148 N84-29992 #
AFOSR-84-0548TR ..... 23 p3833 N84-34315 #
AFOSR-84-0549TR ..... 22 p3663 N84-33221 #
AFOSR-84-0550TR ..... 22 p3664 N84-33227 #
AFOSR-84-0551TR ..... 23 p3748 N84-33750 #
AFOSR-84-0555TR ..... 22 p3638 N84-33061 #
AFOSR-84-0556TR ..... 22 p3534 N84-32372 #
AFOSR-84-0557TR ..... 23 p3741 N84-33716 #
AFOSR-84-0558TR ..... 22 p3643 N84-33098 #
AFOSR-84-0559TR ..... 22 p3640 N84-33079 #
AFOSR-84-0560TR ..... 22 p3646 N84-33118 #
AFOSR-84-0561TR ..... 22 p3648 N84-33131 #
AFOSR-84-0563TR ..... 22 p3640 N84-33081 #
AFOSR-84-0564TR ..... 22 p3594 N84-32758 #
AFOSR-84-0567TR ..... 22 p3646 N84-33119 #
AFOSR-84-0568TR ..... 22 p3646 N84-33117 #
AFOSR-84-0569TR ..... 22 p3594 N84-32759 #
AFOSR-84-0570TR ..... 22 p3644 N84-33102 #
AFOSR-84-0571TR ..... 22 p3663 N84-33220 #
AFOSR-84-0572TR ..... 22 p3601 N84-32809 #
AFOSR-84-0573TR ..... 22 p3601 N84-32808 #
AFOSR-84-0574TR ..... 22 p3657 N84-33185 #
AFOSR-84-0575TR ..... 22 p3640 N84-33080 #
AFOSR-84-0577TR ..... 22 p3649 N84-33133 #
AFOSR-84-0582TR ..... 22 p3664 N84-33228 #
AFOSR-84-0583TR ..... 22 p3663 N84-33222 #
AFOSR-84-0584TR ..... 22 p3683 N84-33223 #
AFOSR-84-0585TR ..... 22 p3664 N84-33225 #
AFOSR-84-0586TR ..... 22 p3663 N84-33219 #
AFOSR-84-0587TR ..... 23 p3754 N84-33798 #
AFOSR-84-0588TR ..... 24 p3909 N84-34760 #
AFOSR-84-0590TR ..... 24 p3911 N84-34770 #
AFOSR-84-0591TR ..... 24 p3953 N84-35034 #
AFOSR-84-0592TR ..... 24 p3950 N84-35012 #
AFOSR-84-0593TR ..... 24 p3959 N84-35069 #
AFOSR-84-0595TR ..... 24 p3954 N84-35036 #
AFOSR-84-0596TR ..... 24 p3950 N84-35013 #
AFOSR-84-0599TR ..... 24 p3950 N84-35011 #
AFOSR-84-0600TR ..... 24 p3893 N84-34656 #
AFOSR-84-0605TR ..... 23 p3825 N84-34257 #
AFOSR-84-0606TR ..... 24 p3889 N84-34625 #
AFOSR-84-0607TR ..... 24 p3897 N84-34677 #
AFOSR-84-0608TR ..... 24 p3963 N84-35096 #
AFOSR-84-0609TR ..... 23 p3825 N84-34259 #
AFOSR-84-0611TR ..... 23 p3816 N84-34197 #
AFOSR-84-0613TR ..... 24 p3884 N84-34606 #
AFOSR-84-0615TR ..... 23 p3755 N84-33800 #
AFOSR-84-0617TR ..... 24 p3888 N84-34621 #
AFOSR-84-0619TR ..... 23 p3822 N84-34240 #
AFOSR-84-0620TR ..... 24 p3961 N84-35087 #
AFOSR-84-0623TR ..... 23 p3755 N84-33799 #
AFOSR-84-0624TR ..... 23 p3742 N84-33719 #
AFOSR-84-0625TR ..... 23 p3742 N84-33721 #
AFOSR-84-0627TR ..... 24 p3967 N84-35121 #
AFOSR-84-0630TR ..... 24 p3966 N84-35116 #
AFOSR-84-0632TR ..... 23 p3825 N84-34258 #
AFOSR-84-0633TR ..... 24 p3884 N84-34605 #
AFOSR-84-0634TR ..... 24 p3890 N84-34632 #
AFOSR-84-0635TR ..... 24 p3898 N84-34687 #
AFOSR-84-0636TR ..... 24 p3909 N84-34759 #
AFOSR-84-0637TR ..... 24 p3951 N84-35021 #
AFOSR-84-0638TR ..... 24 p3952 N84-35022 #
AFOSR-84-0639TR ..... 24 p3898 N84-34688 #
AFOSR-84-0640TR ..... 24 p3947 N84-34992 #
AFOSR-84-0641TR ..... 24 p3962 N84-35088 #
AFOSR-84-0666TR ..... 24 p3952 N84-35024 #
AFOSR-84-0691TR ..... 24 p3920 N84-34814 #
AFOSR-84-0694TR ..... 24 p3952 N84-35029 #
AFOSR-84-0696TR ..... 24 p3937 N84-34923 #
AFOSR-84-0697TR ..... 24 p3962 N84-35089 #
AFOSR-84-0698TR ..... 24 p3938 N84-34926 #
AFOSR-84-0700TR ..... 24 p3880 N84-34583 #
AFOSR-84-0701TR ..... 24 p3937 N84-34922 #
AFOSR-84-0702TR ..... 24 p3936 N84-34918 #
AFOSR-84-0703TR ..... 24 p3937 N84-34921 #
AFOSR-84-0704TR ..... 24 p3895 N84-34668 #

AFRPL-TR-82-090 ..... 05 p0676 N84-14442 #
AFRPL-TR-82-094 ..... 11 p1626 N84-20641 #
AFRPL-TR-83-034 ..... 06 p0812 N84-15287 #
AFRPL-TR-83-039 ..... 03 p0346 N84-12249 #
AFRPL-TR-83-053 ..... 05 p0661 N84-14345 #
AFRPL-TR-83-059 ..... 15 p2284 N84-24709 #
AFRPL-TR-83-062 ..... 11 p1626 N84-20641 #
AFRPL-TR-83-071 ..... 15 p2304 N84-24823 #
AFRPL-TR-83-0013-VOL-3 ..... 02 p0186 N84-11208 #
AFRPL-TR-83-0013-VOL-4 ..... 02 p0186 N84-11209 #
AFRPL-TR-84-002 ..... 14 p2156 N84-23918 #
AFRPL-TR-84-009 ..... 24 p3866 N84-34504 #
AFRPL-TR-84-014 ..... 18 p2808 N84-27826 #
AFRPL-TR-84-021 ..... 23 p3825 N84-34255 #
AFRPL-TR-84-027 ..... 19 p2987 N84-28929* #
AFRPL-TR-84-032 ..... 24 p3917 N84-34797 #

AFRPL-TR-84-035	23	p3718	N84-33568	#
AFRPL-TR-84-036	23	p3724	N84-33597	#
AFRRI-SR83-23	20	p3300	N84-30957	#
AFRRI-SR83-26	20	p3260	N84-30690	#
AFRRI-TR-83-3	13	p2041	N84-23240	#
AFRRI-TR-84-3	23	p3822	N84-34239	#
AFRRI-TR84-4	24	p3897	N84-34676	#
AFSC-TR-82-01	13	p2064	N84-23384	#
AFSC-TR-84-02	13	p2064	N84-23384	#
AFSC-TR-84-001	17	p2598	N84-26650	#
AFSCOM-TR-83-C-8	08	p1166	N84-17590*	#
AFSR-9	01	p0030	N84-10188*	#
AFWAL-TM-83-170-FIBE	02	p0178	N84-11164	#
AFWAL-TR-80-3132-PT-4	03	p0331	N84-12159	#
AFWAL-TR-81-1068	09	p1308	N84-18550	#
AFWAL-TR-81-2056-PT-4	01	p0052	N84-10334	#
AFWAL-TR-81-3105-SUPPL	02	p0218	N84-11426	#
AFWAL-TR-81-3176	09	p1315	N84-18591	#
AFWAL-TR-81-3180	01	p0120	N84-10782	#
AFWAL-TR-82-312	06	p0782	N84-15121	#
AFWAL-TR-82-1147-VOL-1	06	p0825	N84-15380	#
AFWAL-TR-82-2009	09	p1303	N84-18518	#
AFWAL-TR-82-2019-VOL-1	05	p0699	N84-14588	#
AFWAL-TR-82-2019-VOL-2	06	p0873	N84-15684	#
AFWAL-TR-82-2019-VOL-3	06	p0874	N84-15685	#
AFWAL-TR-82-2019-VOL-4	06	p0874	N84-15686	#
AFWAL-TR-82-2049	06	p0830	N84-15398	#
AFWAL-TR-82-2056	03	p0356	N84-12316	#
AFWAL-TR-82-2062-VOL-3	01	p0006	N84-10039	#
AFWAL-TR-82-2076-PT-2	03	p0372	N84-12421	#
AFWAL-TR-82-2100	01	p0084	N84-10546	#
AFWAL-TR-82-2110	05	p0649	N84-14268	#
AFWAL-TR-82-2115	19	p2964	N84-28785	#
AFWAL-TR-82-2117	01	p0102	N84-10660*	#
AFWAL-TR-82-2120	01	p0052	N84-10335	#
AFWAL-TR-82-2128	04	p0509	N84-13336	#
AFWAL-TR-82-3000	10	p1598	N84-20471	#
AFWAL-TR-82-3014-VOL-1	02	p0175	N84-11153	#
AFWAL-TR-82-3014-VOL-2	02	p0176	N84-11154	#
AFWAL-TR-82-3014-VOL-3	02	p0176	N84-11155	#
AFWAL-TR-82-3030	20	p3202	N84-30336	#
AFWAL-TR-82-3031	01	p0005	N84-10031	#
AFWAL-TR-82-3040-PT-2	02	p0178	N84-11163	#
AFWAL-TR-82-3040-PT-3	03	p0337	N84-12191	#
AFWAL-TR-82-3058	01	p0094	N84-10615	#
AFWAL-TR-82-3075	01	p0078	N84-10507	#
AFWAL-TR-82-3080	02	p0177	N84-11162	#
AFWAL-TR-82-3096	01	p0121	N84-10784	#
AFWAL-TR-82-3098-PT-2	01	p0120	N84-10782	#
AFWAL-TR-82-3098-PT-4	01	p0120	N84-10783	#
AFWAL-TR-82-3103	01	p0031	N84-10194	#
AFWAL-TR-82-3108	01	p0013	N84-10080	#
AFWAL-TR-82-3109	08	p1171	N84-17629	#
AFWAL-TR-82-3111	01	p0083	N84-10541	#
AFWAL-TR-82-3112	07	p0948	N84-16153	#
AFWAL-TR-82-4040-VOL-2	17	p2680	N84-27072	#
AFWAL-TR-82-4063-PT-3-VOL-2	10	p1563	N84-20240	#
AFWAL-TR-82-4063-VOL-1-3	07	p1055	N84-16829	#
AFWAL-TR-82-4063-VOL-4	20	p3273	N84-30774	#
AFWAL-TR-82-4063-VOL-5	20	p3272	N84-30766	#
AFWAL-TR-82-4063-VOL-6	21	p3466	N84-31973	#
AFWAL-TR-82-4063-VOL-7	24	p3947	N84-34991	#
AFWAL-TR-82-4102	01	p0095	N84-10616	#
AFWAL-TR-82-4111	03	p0385	N84-12509	#
AFWAL-TR-82-4201	20	p3312	N84-31033	#
AFWAL-TR-83-0001	03	p0315	N84-12054	#
AFWAL-TR-83-1025	03	p0377	N84-12455	#
AFWAL-TR-83-1045	01	p0065	N84-10424	#
AFWAL-TR-83-1058	08	p1213	N84-17911	#
AFWAL-TR-83-1073	07	p1080	N84-17025	#
AFWAL-TR-83-1099	07	p1054	N84-16825	#
AFWAL-TR-83-1106	08	p1104	N84-17180	#
AFWAL-TR-83-1110	12	p1820	N84-21866	#
AFWAL-TR-83-1130	16	p2560	N84-26426	#
AFWAL-TR-83-1141	12	p1770	N84-21546	#
AFWAL-TR-83-1156	14	p2106	N84-23628	#
AFWAL-TR-83-1162	07	p1080	N84-17021	#
AFWAL-TR-83-1179	12	p1812	N84-21815	#
AFWAL-TR-83-1183	13	p1925	N84-22528	#
AFWAL-TR-83-1184	09	p1259	N84-18220	#
AFWAL-TR-83-2001	17	p2770	N84-27586	#
AFWAL-TR-83-2004	07	p0954	N84-16187	#
AFWAL-TR-83-2007	04	p0506	N84-13319	#
AFWAL-TR-83-2015	10	p1424	N84-19314	#
AFWAL-TR-83-2021-VOL-2	08	p1101	N84-17157	#
AFWAL-TR-83-2029	01	p0012	N84-10076	#
AFWAL-TR-83-2031	01	p0138	N84-10908	#
AFWAL-TR-83-2032	02	p0242	N84-11582	#
AFWAL-TR-83-2033	10	p1428	N84-19337	#
AFWAL-TR-83-2039	02	p0180	N84-11175	#
AFWAL-TR-83-2042	09	p1288	N84-18410	#
AFWAL-TR-83-2044	08	p1158	N84-17542	#
AFWAL-TR-83-2044-PT-2	08	p1159	N84-17543	#
AFWAL-TR-83-2044-PT-3	08	p1159	N84-17544	#
AFWAL-TR-83-2046	07	p0997	N84-16467	#
AFWAL-TR-83-2048	12	p1803	N84-21753	#
AFWAL-TR-83-2049	06	p0830	N84-15401	#
AFWAL-TR-83-2057	13	p1965	N84-22769	#
AFWAL-TR-83-2058-VOL-1	09	p1322	N84-18636	#
AFWAL-TR-83-2065	19	p2999	N84-29007	#
AFWAL-TR-83-2070	19	p3016	N84-29118	#
AFWAL-TR-83-2071	09	p1368	N84-18932	#
AFWAL-TR-83-2076	09	p1278	N84-18345	#
AFWAL-TR-83-2078	19	p2999	N84-29008	#
AFWAL-TR-83-2079	21	p3475	N84-32023	#
AFWAL-TR-83-2081	09	p1257	N84-18205	#
AFWAL-TR-83-2083	21	p3391	N84-31522	#
AFWAL-TR-83-2085	18	p2821	N84-27911	#
AFWAL-TR-83-2090	13	p2047	N84-23280	#
AFWAL-TR-83-2091	20	p3197	N84-30301	#
AFWAL-TR-83-2094	14	p2150	N84-23861	#
AFWAL-TR-83-2095	14	p2155	N84-23911	#
AFWAL-TR-83-3000	10	p1598	N84-20471	#
AFWAL-TR-83-3005	03	p0330	N84-12152	#
AFWAL-TR-83-3006	01	p0005	N84-10032*	#
AFWAL-TR-83-3013	06	p0881	N84-15733	#
AFWAL-TR-83-3016	02	p0179	N84-11168	#
AFWAL-TR-83-3018	01	p0032	N84-10199	#
AFWAL-TR-83-3021	01	p0118	N84-10763	#
AFWAL-TR-83-3026	01	p0090	N84-10585	#
AFWAL-TR-83-3027	20	p3128	N84-29866	#
AFWAL-TR-83-3028	01	p0016	N84-10102	#
AFWAL-TR-83-3031	02	p0249	N84-11631	#
AFWAL-TR-83-3041	06	p0791	N84-15160	#
AFWAL-TR-83-3043	01	p0096	N84-10622	#
AFWAL-TR-83-3045-PT-1	03	p0331	N84-12158	#
AFWAL-TR-83-3045-PT-2	03	p0331	N84-12157	#
AFWAL-TR-83-3052	02	p0223	N84-11463	#
AFWAL-TR-83-3056	19	p2966	N84-28920	#
AFWAL-TR-83-3059	05	p0629	N84-14138	#
AFWAL-TR-83-3062	03	p0332	N84-12163	#
AFWAL-TR-83-3066	13	p1954	N84-22704	#
AFWAL-TR-83-3067	03	p0320	N84-12095	#
AFWAL-TR-83-3069	09	p1255	N84-18192	#
AFWAL-TR-83-3071	08	p1159	N84-17545	#
AFWAL-TR-83-3073	09	p1255	N84-18193	#
AFWAL-TR-83-3074	15	p2281	N84-24702	#
AFWAL-TR-83-3075	15	p2281	N84-24701	#
AFWAL-TR-83-3082-VOL-1	10	p1428	N84-19340	#
AFWAL-TR-83-3082-VOL-2	10	p1428	N84-19341	#
AFWAL-TR-83-3083	08	p1100	N84-17153	#
AFWAL-TR-83-3084-VOL-1	06	p0799	N84-15206	#
AFWAL-TR-83-3084-VOL-2	14	p2120	N84-23704	#
AFWAL-TR-83-3086	08	p1122	N84-17296	#
AFWAL-TR-83-3087	20	p3126	N84-29856	#
AFWAL-TR-83-3096	08	p1170	N84-17623	#
AFWAL-TR-83-3098	15	p2253	N84-24529	#
AFWAL-TR-83-3099	09	p1252	N84-18174	#
AFWAL-TR-83-3100	09	p1314	N84-18589	#
AFWAL-TR-83-3108	13	p1930	N84-22555	#
AFWAL-TR-83-3109	13	p1927	N84-22540	#
AFWAL-TR-83-3116	12	p1860	N84-22118	#
AFWAL-TR-83-3121-VOL-1	15	p2350	N84-25107	#
AFWAL-TR-83-3124	20	p3302	N84-30967	#
AFWAL-TR-83-3125	17	p2680	N84-27070	#
AFWAL-TR-83-3128	13	p2002	N84-22988	#
AFWAL-TR-83-3129	19	p3066	N84-29592	#
AFWAL-TR-83-3131	14	p2111	N84-23657	#
AFWAL-TR-83-4000	20	p3312	N84-31033	#
AFWAL-TR-83-4005	01	p0031	N84-10196	#
AFWAL-TR-83-4010	08	p1138	N84-17401	#
AFWAL-TR-83-4011	18	p2819	N84-27897	#
AFWAL-TR-83-4016	01	p0031	N84-10193	#
AFWAL-TR-83-4017	01	p0121	N84-10789	#
AFWAL-TR-83-4018	01	p0044	N84-10280	#
AFWAL-TR-83-4019	02	p0231	N84-11516	#
AFWAL-TR-83-4028	04	p0499	N84-13272	#
AFWAL-TR-83-4034	03	p0452	N84-12972	#
AFWAL-TR-83-4036	02	p0200	N84-11303	#
AFWAL-TR-83-4038	07	p1016	N84-16593	#
AFWAL-TR-83-4040	01	p0030	N84-10191	#
AFWAL-TR-83-4046	03	p0331	N84-12161	#
AFWAL-TR-83-4052	16	p2472	N84-25844	#
AFWAL-TR-83-4055	08	p1137	N84-17393	#
AFWAL-TR-83-4060	02	p0188	N84-11221	#
AFWAL-TR-83-4061	06	p0799	N84-15207	#
AFWAL-TR-83-4063	06	p0810	N84-15274	#
AFWAL-TR-83-4064	05	p0660	N84-14336	#
AFWAL-TR-83-4067	06	p0922	N84-15994	#
AFWAL-TR-83-4074	01	p0352	N84-12290	#
AFWAL-TR-83-4079	14	p2122	N84-23720	#
AFWAL-TR-83-4080	08	p1136	N84-17390	#
AFWAL-TR-83-4089-VOL-1	20	p3131	N84-29681	#
AFWAL-TR-83-4090	05	p0625	N84-14112	#

AFWAL-TR-83-4093 ..... 15 p2391 N84-25352 #
AFWAL-TR-83-4095 ..... 07 p0968 N84-16272 #
AFWAL-TR-83-4096 ..... 09 p1276 N84-18334 #
AFWAL-TR-83-4101 ..... 09 p1287 N84-18405 #
AFWAL-TR-83-4108 ..... 23 p3830 N84-34294 #
AFWAL-TR-83-4113 ..... 23 p3754 N84-33797 #
AFWAL-TR-83-4119 ..... 14 p2158 N84-23927 #
AFWAL-TR-83-4123 ..... 24 p3889 N84-34626 #
AFWAL-TR-83-4125 ..... 13 p1964 N84-22762 #
AFWAL-TR-83-4128 ..... 13 p1961 N84-22740 #
AFWAL-TR-83-4141 ..... 21 p3343 N84-31210 #
AFWAL-TR-83-4154 ..... 17 p2589 N84-26596 #
AFWAL-TR-83-4159 ..... 19 p2998 N84-28996 #
AFWAL-TR-84-1021 ..... 21 p3391 N84-31518 #
AFWAL-TR-84-1022 ..... 16 p2546 N84-26343 #
AFWAL-TR-84-1033 ..... 20 p3148 N84-29991 #
AFWAL-TR-84-1034 ..... 20 p3178 N84-30184 #
AFWAL-TR-84-1035 ..... 20 p3178 N84-30187 #
AFWAL-TR-84-1075 ..... 23 p3830 N84-34292 #
AFWAL-TR-84-2000 ..... 17 p2770 N84-27586 #
AFWAL-TR-84-2001-PT-1 ..... 18 p2819 N84-27896 #
AFWAL-TR-84-2003 ..... 17 p2683 N84-26991 #
AFWAL-TR-84-2004 ..... 24 p3890 N84-34631 #
AFWAL-TR-84-2005 ..... 19 p2982 N84-28895 #
AFWAL-TR-84-2017 ..... 18 p2846 N84-28070 #
AFWAL-TR-84-2022 ..... 19 p3001 N84-29019 #
AFWAL-TR-84-2031 ..... 24 p3916 N84-34796 #
AFWAL-TR-84-2036 ..... 24 p3901 N84-34703 #
AFWAL-TR-84-2050 ..... 24 p3890 N84-34633 #
AFWAL-TR-84-3002 ..... 19 p2964 N84-28783 #
AFWAL-TR-84-3007 ..... 18 p2890 N84-28346 #
AFWAL-TR-84-3016 ..... 19 p2998 N84-28998 #
AFWAL-TR-84-3018 ..... 17 p2606 N84-26694 #
AFWAL-TR-84-3039 ..... 23 p3691 N84-33395 #
AFWAL-TR-84-3043 ..... 24 p3856 N84-34446 #
AFWAL-TR-84-4018 ..... 16 p2469 N84-25824 #
AFWAL-TR-84-4020-VOL-4 ..... 24 p3948 N84-34999 #
AFWAL-TR-84-4022-VOL-1 ..... 20 p3199 N84-30320 #
AFWAL-TR-84-4025 ..... 12 p1789 N84-21670 #
AFWAL-TR-84-4026 ..... 20 p3202 N84-30341 #
AFWAL-TR-84-4029 ..... 19 p2986 N84-28921 #
AFWAL-TR-84-4031 ..... 19 p3036 N84-29261 #
AFWAL-TR-84-4035 ..... 23 p3825 N84-34256 #
AFWAL-TR-84-4052 ..... 20 p3152 N84-30017 #
AFWAL-TR-84-4055 ..... 21 p3405 N84-31600 #
AFWAL-TR-84-4062 ..... 23 p3761 N84-33838 #
AFWAL-TR-84-4084 ..... 21 p3366 N84-31352 #
AFWAL-TR-84-4091 ..... 24 p3910 N84-34766 #

AFWL-TR-82-139 ..... 02 p0213 N84-11391 #
AFWL-TR-83-12 ..... 03 p0444 N84-12920 #
AFWL-TR-83-13 ..... 03 p0441 N84-12894 #
AFWL-TR-83-19 ..... 04 p0540 N84-13550 #
AFWL-TR-83-22 ..... 09 p1395 N84-19109 #
AFWL-TR-83-33 ..... 15 p2410 N84-25468 #
AFWL-TR-83-45 ..... 04 p0520 N84-13418 #
AFWL-TR-83-51 ..... 13 p1990 N84-22919 #
AFWL-TR-83-74-VOL-1 ..... 03 p0379 N84-12469 #
AFWL-TR-83-74-VOL-2 ..... 03 p0379 N84-12468 #
AFWL-TR-83-84 ..... 05 p0693 N84-14551 #
AFWL-TR-83-97 ..... 08 p1108 N84-17206 #
AFWL-TR-83-101 ..... 09 p1388 N84-19067 #
AFWL-TR-83-103 ..... 15 p2329 N84-24983 #
AFWL-TR-83-112 ..... 18 p2844 N84-28061 #
AFWL-TR-83-115 ..... 20 p3300 N84-30955 #
AFWL-TR-83-141 ..... 19 p2964 N84-28787 #
AFWL-TR-84-06 ..... 24 p3965 N84-35110 #
AFWL-TR-84-21 ..... 24 p3954 N84-35037 #

AGARD-AG-270(FR) ..... 06 p0891 N84-15788 #
AGARD-AG-276 ..... 20 p3133 N84-29894
AGARD-AG-277(E) ..... 11 p1699 N84-21082 #
AGARD-AG-281 ..... 11 p1603 N84-20499 #
AGARD-AG-283(ENG) ..... 06 p0891 N84-15787 #
AGARD-AG-283(FR) ..... 06 p0891 N84-15787 #
AGARD-AG-292 ..... 11 p1605 N84-20513 #
AGARD-AG-300-VOL-1 ..... 06 p0848 N84-15530 #

AGARD-AR-188 ..... 22 p3538 N84-32401 #
AGARD-AR-193 ..... 22 p3539 N84-32402 #
AGARD-AR-209 ..... 23 p3813 N84-34177 #

AGARD-BUL-83/2 ..... 01 p0002 N84-10010 #
AGARD-BUL-84/1 ..... 14 p2252 N84-24527 #

AGARD-CAL-83/2 ..... 11 p1761 N84-21490 #
AGARD-CAL-84/1 ..... 21 p3527 N84-32341 #

AGARD-CP-338 ..... 11 p1696 N84-21062 #
AGARD-CP-341 ..... 22 p3831 N84-33011 #
AGARD-CP-342 ..... 03 p0321 N84-12099 #
AGARD-CP-343 ..... 06 p0768 N84-15034 #
AGARD-CP-345 ..... 06 p0867 N84-15646 #
AGARD-CP-346 ..... 15 p2322 N84-24943 #
AGARD-CP-347 ..... 06 p0775 N84-15076 #
AGARD-CP-348 ..... 14 p2094 N84-23564 #
AGARD-CP-349 ..... 03 p0315 N84-12056 #
AGARD-CP-350 ..... 15 p2265 N84-24803 #
AGARD-CP-351 ..... 07 p0954 N84-16188 #
AGARD-CP-352 ..... 03 p0333 N84-12168 #
AGARD-CP-353 ..... 15 p2289 N84-24732 #
AGARD-CP-354 ..... 02 p0169 N84-11116 #
AGARD-CP-355 ..... 01 p0032 N84-10203 #
AGARD-CP-356 ..... 23 p3702 N84-33465 #
AGARD-CP-357 ..... 11 p1750 N84-21425 #
AGARD-CP-373 ..... 24 p3847 N84-34396 #

AGARD-HIGHLIGHTS-82/2 ..... 12 p1763 N84-21496 #
AGARD-HIGHLIGHTS-83/1 ..... 12 p1763 N84-21493 #
AGARD-HIGHLIGHTS-83/2 ..... 12 p1763 N84-21494 #
AGARD-HIGHLIGHTS-84/1 ..... 12 p1763 N84-21498 #

AGARD-LS-128 ..... 01 p0014 N84-10093 #
AGARD-LS-130 ..... 07 p1085 N84-17059 #
AGARD-LS-131 ..... 03 p0363 N84-12367 #
AGARD-LS-132 ..... 16 p2452 N84-25723 #
AGARD-LS-133 ..... 16 p2446 N84-25691 #
AGARD-LS-134 ..... 16 p2536 N84-26279 #
AGARD-LS-135 ..... 21 p3350 N84-31248 #

AGARD-R-709 ..... 23 p3748 N84-33757 #
AGARD-R-710 ..... 16 p2436 N84-25625 #
AGARD-R-711 ..... 01 p0013 N84-10082 #
AGARD-R-712 ..... 03 p0317 N84-12072 #
AGARD-R-714 ..... 16 p2434 N84-25613 #
AGARD-R-716 ..... 21 p3358 N84-31300 #
AGARD-R-717 ..... 03 p0314 N84-12050 #
AGARD-R-718 ..... 12 p1920 N84-22509 #
AGARD-R-720 ..... 16 p2451 N84-25718 #

AGES-840416 ..... 22 p3639 N84-33068 #

AGF-DOK-1/1983 ..... 10 p1592 N84-20429 #
AGF-DOK-2/1983 ..... 10 p1592 N84-20430 #

AI-DS-TR-1015-02 ..... 05 p0731 N84-14802 #

AI-M-012 ..... 01 p0153 N84-11005 #
AI-M-013 ..... 07 p1081 N84-17027 #
AI-M-351 ..... 01 p0122 N84-10792 #
AI-M-684 ..... 01 p0130 N84-10850 #
AI-M-702 ..... 03 p0424 N84-12772 #
AI-M-706 ..... 02 p0265 N84-11746 #
AI-M-708 ..... 07 p1085 N84-17055 #
AI-M-710 ..... 05 p0741 N84-14868 #
AI-M-711 ..... 02 p0272 N84-11780 #
AI-M-714 ..... 02 p0240 N84-11571 #
AI-M-722 ..... 02 p0281 N84-11839 #
AI-M-723 ..... 06 p0891 N84-15792 #
AI-M-724 ..... 05 p0732 N84-14809 #
AI-M-726 ..... 05 p0716 N84-14691 #
AI-M-727 ..... 06 p0905 N84-15878 #
AI-M-730 ..... 14 p2212 N84-24280 #
AI-M-736 ..... 05 p0732 N84-14810 #
AI-M-740 ..... 09 p1389 N84-19073 #
AI-M-744 ..... 09 p1337 N84-18731 #
AI-M-746 ..... 14 p2187 N84-24106 #
AI-M-750 ..... 20 p3278 N84-30809 #
AI-M-755 ..... 21 p3470 N84-31990 #
AI-M-756 ..... 20 p3278 N84-30810 #
AI-M-757 ..... 20 p3279 N84-30811 #
AI-M-758 ..... 20 p3281 N84-30827 #
AI-M-759 ..... 14 p2188 N84-24107 #
AI-M-762 ..... 20 p3259 N84-30687 #
AI-M-780 ..... 20 p3259 N84-30686 #

AI-TR-704 ..... 20 p3273 N84-30773 #
AI-TR-707 ..... 03 p0423 N84-12769 #
AI-TR-720 ..... 01 p0147 N84-10967 #
AI-TR-728 ..... 04 p0580 N84-13826 #
AI-TR-754-REV ..... 20 p3196 N84-30299 #

AI/DS-TM-1014-3 ..... 19 p3079 N84-29534 #

AI/DS-TR-1026-1 ..... 09 p1384 N84-19037 #

AIAA-81-1266 ..... 18 p2786 N84-27682* #
AIAA-83-1825 ..... 06 p0786 N84-15145* #
AIAA-83-2107 ..... 07 p0958 N84-16213* #
AIAA-83-2221 ..... 20 p3131 N84-29883* #
AIAA-83-2704 ..... 08 p1115 N84-17250* #
AIAA-83-2705-REV ..... 11 p1607 N84-20520* #
AIAA-84-0192 ..... 04 p0485 N84-13190* #
AIAA-84-0531 ..... 04 p0532 N84-13494* #
AIAA-84-0991 ..... 14 p2157 N84-23923* #
AIAA-84-1161 ..... 15 p2262 N84-24589* #
AIAA-84-1184 ..... 16 p2450 N84-25712* #
AIAA-84-1203 ..... 16 p2433 N84-25607* #
AIAA-84-1297 ..... 16 p2439 N84-25647* #
AIAA-84-1326 ..... 16 p2459 N84-25764* #
AIAA-84-1343 ..... 16 p2457 N84-25753* #
AIAA-84-1344 ..... 15 p2331 N84-25000* #

AIAA-84-1379 ..... 16 p2450 N84-25713* #
AIAA-84-1383 ..... 16 p2433 N84-25605* #
AIAA-84-1452 ..... 15 p2262 N84-24585* #
AIAA-84-1459 ..... 15 p2335 N84-25019* #
AIAA-84-1500 ..... 16 p2433 N84-25608* #
AIAA-84-1768 ..... 22 p3554 N84-32505* #
AIAA-84-1781 ..... 18 p2802 N84-27785* #
AIAA-84-2205 ..... 19 p2965 N84-28790* #

AMA-82-43 ..... 16 p2451 N84-25716* #
AMA-83-12 ..... 16 p2445 N84-25684* #
AMA-83-21 ..... 02 p0184 N84-11197* #
AMA-84-3 ..... 11 p1622 N84-20616* #
AMA-84-4 ..... 18 p2802 N84-27786* #
AMA-84-11 ..... 20 p3134 N84-29901* #

AMI-TR-142A-PT-1 ..... 19 p3006 N84-29051 #
AMI-TR-143A ..... 19 p3005 N84-29050 #
AMI-TR-144A-PT-2 ..... 19 p3005 N84-29047 #
AMI-TR-144A-PT-4 ..... 19 p3006 N84-29052 #
AMI-TR-145A-PT-5 ..... 19 p3005 N84-29048 #
AMI-TR-146A-PT-6 ..... 19 p3006 N84-29053 #

AMI-014 ..... 10 p1588 N84-20409 #

AMMRC-TR-83-14 ..... 03 p0389 N84-12535 #
AMMRC-TR-83-15 ..... 02 p0285 N84-11865 #
AMMRC-TR-83-17 ..... 01 p0050 N84-10320 #
AMMRC-TR-83-18 ..... 04 p0486 N84-13196 #
AMMRC-TR-83-21 ..... 02 p0188 N84-11222 #
AMMRC-TR-83-24 ..... 01 p0032 N84-10200 #
AMMRC-TR-83-25 ..... 05 p0645 N84-14245 #
AMMRC-TR-83-28 ..... 01 p0096 N84-10625 #
AMMRC-TR-83-39 ..... 06 p0847 N84-15524 #
AMMRC-TR-83-43 ..... 04 p0595 N84-13926 #
AMMRC-TR-83-44 ..... 08 p1138 N84-17400 #
AMMRC-TR-83-46 ..... 09 p1276 N84-18329 #
AMMRC-TR-83-47 ..... 07 p1054 N84-16828 #
AMMRC-TR-83-49 ..... 17 p2618 N84-26757 #
AMMRC-TR-83-53 ..... 08 p1137 N84-17394 #
AMMRC-TR-83-55 ..... 10 p1467 N84-19583 #
AMMRC-TR-83-56 ..... 07 p0968 N84-16271 #
AMMRC-TR-83-57 ..... 11 p1637 N84-20704 #
AMMRC-TR-83-59 ..... 10 p1563 N84-20241 #
AMMRC-TR-84-1 ..... 11 p1606 N84-20517 #
AMMRC-TR-84-3 ..... 13 p2023 N84-23120 #
AMMRC-TR-84-4 ..... 17 p2627 N84-26807 #
AMMRC-TR-84-6 ..... 21 p3422 N84-31707 #
AMMRC-TR-84-14 ..... 20 p3153 N84-30020 #
AMMRC-TR-84-22 ..... 22 p3545 N84-32440 #
AMMRC-TR-84-23 ..... 24 p3889 N84-34628 #

AMPC-14-006 ..... 19 p3108 N84-29751 #

AMRC-N-249 ..... 09 p1377 N84-18995 #

AMRC-R-312 ..... 02 p0292 N84-11914 #
AMRC-R-466 ..... 06 p0915 N84-15946 #
AMRC-R-524 ..... 10 p1576 N84-20329 #

AMSAA-TR-373 ..... 05 p0729 N84-14787 #
AMSAA-TR-383 ..... 05 p0654 N84-14302 #

AMTE(M)-R-83003 ..... 18 p2814 N84-27864 #

AMTE(N)-TM-83065 ..... 03 p0430 N84-12819

AMTE(N)/TM-84053 ..... 24 p3901 N84-34700 #

ANAMET-1082.1A ..... 08 p1171 N84-17629 #

ANL-CT-83-6 ..... 08 p1152 N84-17502 #
ANL-CT-83-7-PT-1 ..... 07 p1012 N84-16567 #
ANL-CT-83-7-PT-2 ..... 09 p1325 N84-18661 #
ANL-CT-83-9 ..... 12 p1919 N84-22506 #

ANL-CT/VA-2349 ..... 20 p3187 N84-30249 #

ANL-FPP-83-1-VOL-1 ..... 10 p1585 N84-20392 #

ANL-HEP-CP-82-24 ..... 04 p0603 N84-13980 #
ANL-HEP-CP-82-64 ..... 06 p0926 N84-16015
ANL-HEP-CP-83-22 ..... 03 p0437 N84-12865 #
ANL-HEP-CP-83-47 ..... 04 p0600 N84-13962 #
ANL-HEP-CP-84-09 ..... 20 p3293 N84-30908 #
ANL-HEP-CP-84-20 ..... 20 p3311 N84-31028 #
ANL-HEP-CP-84-21 ..... 23 p3831 N84-34299 #

ANL-OHS/HP-84-102 ..... 21 p3497 N84-32165 #

ANL-80-40-SUPPL-6 ..... 04 p0581 N84-13834 #
ANL-82-43 ..... 03 p0353 N84-12294 #
ANL-82-84-REV-1 ..... 20 p3267 N84-30728 #
ANL-83-10 ..... 06 p0862 N84-15614 #
ANL-83-23 ..... 02 p0206 N84-11342 #
ANL-83-31 ..... 03 p0426 N84-12788 #

ANL-83-45 ..... 12 p1838 N84-21978 #
ANL-83-50 ..... 15 p2414 N84-25491 #
ANL-83-59 ..... 03 p0390 N84-12546 #
ANL-83-62 ..... 09 p1310 N84-18565 #
ANL-83-67 ..... 05 p0676 N84-14445 #
ANL-83-70 ..... 04 p0582 N84-13841 #
ANL-83-72 ..... 07 p1003 N84-16508 #
ANL-83-73 ..... 04 p0536 N84-13527 #
ANL-83-74 ..... 04 p0535 N84-13518 #
ANL-83-76 ..... 05 p0741 N84-14869 #
ANL-83-87 ..... 06 p0844 N84-15506 #
ANL-83-89 ..... 18 p2834 N84-27994 #
ANL-83-93 ..... 11 p1635 N84-20668 #
ANL-83-96 ..... 10 p1565 N84-20251 #
ANL-83-97 ..... 23 p3817 N84-34200 #
ANL-84-5 ..... 20 p3185 N84-30240 #
ANL-84-17 ..... 23 p3757 N84-33814 #
ANL-84-19 ..... 21 p3435 N84-31793 #
ANL-84-29 ..... 20 p3279 N84-30614 #
ANL-84-39 ..... 23 p3761 N84-33840 #

ANL/EES-TM-240 ..... 15 p2364 N84-25185 #
ANL/EES-TM-247 ..... 21 p3431 N84-31772 #

ANL/ENG-PMS0-02 ..... 02 p0301 N84-11977 #

ANL/ER-83-1 ..... 11 p1688 N84-21009 #
ANL/ER-84-2 ..... 21 p3437 N84-31804 #

ANL/ES-130 ..... 01 p0163 N84-11070 #
ANL/ES-133 ..... 04 p0560 N84-13693 #
ANL/ES-134-PT-1 ..... 21 p3432 N84-31775 #
ANL/ES-135-PT-2 ..... 23 p3799 N84-34087 #
ANL/ES-136-PT-1 ..... 22 p3614 N84-32901 #
ANL/ES-136-PT-2 ..... 21 p3432 N84-31774 #
ANL/ES-137-PT-1 ..... 22 p3624 N84-32962 #

ANL/FE-83-25 ..... 18 p2819 N84-27898 #
ANL/FE-84-6 ..... 21 p3370 N84-31385 #

ANL/FPP/TM-169 ..... 03 p0446 N84-12936 #
ANL/FPP/TM-174 ..... 02 p0195 N84-11265 #
ANL/FPP/TM-176 ..... 05 p0750 N84-14927 #
ANL/FPP/TM-179 ..... 20 p3296 N84-30931 #
ANL/FPP/TM-182 ..... 20 p3179 N84-30193 #

ANL/MCS-TM-9 ..... 09 p1369 N84-18941 #
ANL/MCS-TM-10 ..... 11 p1709 N84-21137 #
ANL/MCS-TM-12 ..... 11 p1717 N84-21197 #

ANL/NDM-80 ..... 04 p0601 N84-13970 #

ANL/NESC-1-(REV) ..... 12 p1878 N84-22241 #

ANL/OEPM-83-3 ..... 01 p0038 N84-10242 #
ANL/OEPM-83-4 ..... 03 p0367 N84-12387 #
ANL/OEPM-83-6 ..... 05 p0676 N84-14444 #
ANL/OEPM-83-7 ..... 02 p0304 N84-11994 #
ANL/OEPM-83-8 ..... 01 p0073 N84-10479 #
ANL/OEPM-83-9 ..... 04 p0527 N84-13484 #

ANL/RER-83-1 ..... 07 p1040 N84-16743 #

ANL/SPG-24 ..... 04 p0527 N84-13486 #

ANL/TM-335-REV ..... 20 p3274 N84-30786 #
ANL/TM-414 ..... 15 p2419 N84-25524 #

ANSL/FE-83-5 ..... 01 p0140 N84-10920 #

AP-J2-04225 ..... 10 p1522 N84-19962* #

AP-L3-04416 ..... 01 p0100 N84-10647* #

AP-83-083 ..... 14 p2228 N84-24360 #
AP-84-026 ..... 14 p2229 N84-24363 #

APL-UW-8310 ..... 06 p0885 N84-15754 #

APML-150983 ..... 08 p1125 N84-17311 #

APR-1 ..... 01 p0091 N84-10592 #
APR-1 ..... 01 p0096 N84-10626 #
APR-1 ..... 03 p0357 N84-12325 #
APR-1 ..... 05 p0743 N84-14884 #
APR-1 ..... 09 p1277 N84-18336 #
APR-1 ..... 09 p1395 N84-19112 #
APR-1 ..... 10 p1530 N84-20023 #
APR-1 ..... 16 p2472 N84-25843 #
APR-2 ..... 05 p0754 N84-14948 #
APR-2 ..... 08 p1205 N84-17858* #
APR-2 ..... 08 p1205 N84-17859* #
APR-2 ..... 12 p1821 N84-21869 #
APR-96 ..... 02 p0213 N84-11392 #
APR-125 ..... 08 p1150 N84-17488 #

APS-89 ..... 03 p0449 N84-12953 #

AR-1 ..... 01 p0050 N84-10324 #
AR-1 ..... 01 p0147 N84-10965 #
AR-1 ..... 02 p0219 N84-11436 #
AR-1 ..... 02 p0231 N84-11517 #
AR-1 ..... 04 p0491 N84-13223* #
AR-1 ..... 08 p1171 N84-17628 #
AR-1 ..... 09 p1362 N84-18897 #
AR-1 ..... 10 p1452 N84-19479* #
AR-1 ..... 10 p1555 N84-20191 #
AR-1 ..... 11 p1603 N84-20498 #
AR-1 ..... 11 p1642 N84-20737* #
AR-1 ..... 14 p2158 N84-23928 #
AR-1 ..... 15 p2295 N84-24774* #
AR-1 ..... 15 p2379 N84-25278 #
AR-1 ..... 24 p3910 N84-34766 #
AR-2 ..... 02 p0281 N84-11842 #
AR-2 ..... 03 p0358 N84-12328 #
AR-2 ..... 06 p0908 N84-15899 #
AR-2 ..... 09 p1333 N84-18702 #
AR-2 ..... 20 p3132 N84-29889 #
AR-2 ..... 20 p3157 N84-30050 #
AR-2 ..... 24 p3888 N84-34621 #
AR-3 ..... 01 p0050 N84-10321 #
AR-3 ..... 01 p0136 N84-10905 #
AR-3 ..... 02 p0194 N84-11261 #
AR-3 ..... 02 p0202 N84-11317 #
AR-3 ..... 07 p1075 N84-16967 #
AR-3 ..... 10 p1460 N84-19534 #
AR-3 ..... 13 p1997 N84-22961 #
AR-3 ..... 16 p2502 N84-26060 #
AR-4 ..... 07 p1012 N84-16566 #
AR-4 ..... 14 p2183 N84-24078* #
AR-4 ..... 16 p2473 N84-25851 #
AR-4 ..... 18 p2870 N84-28222* #
AR-4 ..... 23 p3724 N84-33599 #
AR-5 ..... 02 p0302 N84-11981* #
AR-5 ..... 04 p0507 N84-13324 #
AR-5 ..... 09 p1325 N84-18660 #
AR-5 ..... 12 p1917 N84-22489 #
AR-5 ..... 20 p3313 N84-31040 #
AR-6 ..... 11 p1746 N84-21397 #
AR-6 ..... 16 p2485 N84-25936 #
AR-6 ..... 24 p3963 N84-35096 #
AR-7 ..... 14 p2249 N84-24511 #
AR-7 ..... 18 p2868 N84-28209* #
AR-8 ..... 21 p3520 N84-32304 #
AR-9 ..... 13 p1936 N84-22591* #
AR-00-984 ..... 16 p2500 N84-26048 #
AR-10 ..... 17 p2725 N84-27346 #
AR-10 ..... 22 p3673 N84-33283 #
AR-11 ..... 11 p1758 N84-21477* #
AR-11 ..... 22 p3673 N84-33282 #
AR-12 ..... 11 p1758 N84-21476* #
AR-17 ..... 20 p3257 N84-30672 #
AR-30 ..... 02 p0213 N84-11397 #
AR-32 ..... 20 p3316 N84-31061 #
AR-79-2 ..... 19 p2956 N84-28736* #
AR-82-83 ..... 12 p1861 N84-22126 #
AR-002-746 ..... 05 p0662 N84-14353 #
AR-002-896 ..... 12 p1824 N84-21889 #
AR-002-911 ..... 04 p0486 N84-13191 #
AR-002-925 ..... 04 p0483 N84-13174 #
AR-002-934 ..... 03 p0425 N84-12780 #
AR-002-943 ..... 04 p0587 N84-13879 #
AR-002-948 ..... 04 p0543 N84-13578 #
AR-002-949 ..... 11 p1625 N84-20633 #
AR-002-950 ..... 07 p1000 N84-16487 #
AR-002-952 ..... 04 p0592 N84-13910 #
AR-002-954 ..... 08 p1096 N84-17128 #
AR-002-962 ..... 07 p1059 N84-16860 #
AR-002-966 ..... 09 p1317 N84-18606 #
AR-002-967 ..... 07 p0945 N84-16132 #
AR-002-973 ..... 09 p1329 N84-18676 #
AR-002-974 ..... 07 p0973 N84-16307 #
AR-002-976 ..... 11 p1599 N84-20477 #
AR-002-978 ..... 14 p2144 N84-23851 #
AR-002-988 ..... 14 p2100 N84-23603 #
AR-002-996 ..... 15 p2300 N84-24804 #
AR-003-004 ..... 24 p3853 N84-34437 #
AR-003-006 ..... 16 p2454 N84-25732 #
AR-003-011 ..... 24 p3887 N84-34617 #
AR-003-012 ..... 20 p3201 N84-30333 #
AR-003-015 ..... 24 p3912 N84-34772 #
AR-003-016 ..... 23 p3760 N84-33833 #
AR-003-285 ..... 05 p0743 N84-14879 #
AR-003-287 ..... 05 p0721 N84-14728 #
AR-003-292 ..... 17 p2628 N84-26812 #
AR-003-295 ..... 17 p2622 N84-26784 #
AR-003-296 ..... 05 p0683 N84-14493 #
AR-003-297 ..... 08 p1123 N84-17301 #
AR-003-298-PT-1 ..... 16 p2470 N84-25828 #
AR-003-299 ..... 05 p0692 N84-14544 #
AR-003-300 ..... 12 p1796 N84-21717 #
AR-003-306 ..... 05 p0715 N84-14682 #
AR-003-307 ..... 08 p1150 N84-17482 #
AR-003-309 ..... 08 p1139 N84-17408 #
AR-003-729 ..... 24 p3963 N84-35095 #
AR-003-733 ..... 17 p2604 N84-26684 #
AR-003-794 ..... 05 p0661 N84-14344 #
AR-003-795 ..... 05 p0646 N84-14250 #
AR-003-796 ..... 05 p0646 N84-14249 #
AR-003-798 ..... 08 p1197 N84-17803 #
AR-003-799 ..... 16 p2495 N84-26005 #
AR-003-800 ..... 08 p1161 N84-17557 #
AR-003-801 ..... 08 p1155 N84-17524 #
AR-003-803 ..... 16 p2486 N84-25942 #
AR-003-804 ..... 11 p1639 N84-20712 #
AR-003-807 ..... 16 p2555 N84-26391 #
AR-003-809 ..... 08 p1136 N84-17387 #
AR-003-893 ..... 11 p1692 N84-21039 #
AR-003-895 ..... 11 p1692 N84-21038 #
AR-003-896 ..... 12 p1796 N84-21718 #
AR-003-897 ..... 24 p3890 N84-34629 #
AR-003-898 ..... 16 p2483 N84-25924 #
AR-003-899 ..... 16 p2473 N84-25853 #
AR-003-903 ..... 24 p3914 N84-34779 #
AR-003-904 ..... 16 p2497 N84-26020 #
AR-003-906 ..... 20 p3201 N84-30332 #
AR-003-907 ..... 16 p2543 N84-26321 #
AR-003-910 ..... 24 p3965 N84-35104 #
AR-003-914 ..... 22 p3600 N84-32803 #
AR-003-939 ..... 22 p3639 N84-33072 #
AR-003-953 ..... 22 p3637 N84-33058 #
AR-111 ..... 03 p0407 N84-12664* #
AR-112 ..... 03 p0378 N84-12462* #
AR-196 ..... 07 p1071 N84-16960 #

ARA-MEMO-246 ..... 13 p1931 N84-22561 #

ARA-502 ..... 09 p1321 N84-18627 #

ARAP-488 ..... 01 p0107 N84-10696 #

ARB-R-83-191 ..... 02 p0267 N84-11755 #
ARB-R-83-198 ..... 04 p0561 N84-13697 #
ARB-R-83-217 ..... 08 p1184 N84-17714 #
ARB-R-84-220 ..... 14 p2133 N84-23781 #

ARBRL-CR-00517 ..... 08 p1099 N84-17150 #
ARBRL-CR-00520 ..... 16 p2547 N84-26347 #
ARBRL-CR-00524 ..... 14 p2158 N84-23930 #
ARBRL-CR-00526 ..... 17 p2671 N84-27026 #
ARBRL-CR-00527 ..... 22 p3531 N84-32359 #
ARBRL-CR-00528 ..... 22 p3532 N84-32360 #
ARBRL-CR-00529 ..... 22 p3532 N84-32361 #

ARBRL-IMR-74 ..... 06 p0783 N84-15127 #
ARBRL-IMR-694 ..... 05 p0627 N84-14126 #
ARBRL-IMR-706.E ..... 05 p0627 N84-14126 #
ARBRL-IMR-712 ..... 03 p0320 N84-12094 #
ARBRL-IMR-741 ..... 11 p1728 N84-21271 #
ARBRL-IMR-757 ..... 01 p0084 N84-10547 #
ARBRL-IMR-771 ..... 05 p0680 N84-14472 #
ARBRL-IMR-778 ..... 14 p2101 N84-23610 #
ARBRL-IMR-787 ..... 11 p1653 N84-20791 #
ARBRL-IMR-794 ..... 10 p1491 N84-19753 #

ARBRL-MR-03262 ..... 07 p0947 N84-16148 #
ARBRL-MR-03285 ..... 01 p0084 N84-10547 #
ARBRL-MR-03291 ..... 03 p0320 N84-12094 #
ARBRL-MR-03298 ..... 03 p0418 N84-12731 #
ARBRL-MR-03300 ..... 06 p0812 N84-15285 #
ARBRL-MR-03308 ..... 09 p1253 N84-18177 #
ARBRL-MR-03325 ..... 10 p1491 N84-19753 #
ARBRL-MR-03326 ..... 11 p1622 N84-20615 #
ARBRL-MR-03327 ..... 11 p1638 N84-20708 #
ARBRL-MR-03329 ..... 11 p1653 N84-20791 #
ARBRL-MR-03333 ..... 16 p2547 N84-26344 #
ARBRL-MR-03334 ..... 14 p2101 N84-23610 #
ARBRL-MR-03335 ..... 17 p2758 N84-27506 #
ARBRL-MR-03341 ..... 17 p2610 N84-26709 #
ARBRL-MR-03347 ..... 17 p2668 N84-27011 #
ARBRL-MR-03348 ..... 17 p2760 N84-27526 #
ARBRL-MR-03353 ..... 18 p2789 N84-27699 #
ARBRL-MR-03354 ..... 20 p3162 N84-30079 #
ARBRL-MR-03355 ..... 19 p3023 N84-29173 #

ARBRL-TR-02489 ..... 01 p0077 N84-10505 #
ARBRL-TR-02495 ..... 01 p0004 N84-10027 #
ARBRL-TR-02499 ..... 02 p0203 N84-11323 #
ARBRL-TR-02501 ..... 01 p0079 N84-10516 #
ARBRL-TR-02503 ..... 03 p0338 N84-12194 #
ARBRL-TR-02507 ..... 03 p0349 N84-12267 #
ARBRL-TR-02510 ..... 03 p0420 N84-12744 #
ARBRL-TR-02511 ..... 03 p0371 N84-12420 #
ARBRL-TR-02512 ..... 06 p0801 N84-15221 #
ARBRL-TR-02515 ..... 06 p0783 N84-15127 #
ARBRL-TR-02519 ..... 05 p0685 N84-14500 #
ARBRL-TR-02520 ..... 16 p2485 N84-25940 #
ARBRL-TR-02521 ..... 05 p0680 N84-14472 #

ARBRL-TR-02522 ..... 05 p0661 N84-14346 #
ARBRL-TR-02523 ..... 05 p0627 N84-14126 #
ARBRL-TR-02525 ..... 05 p0627 N84-14125 #
ARBRL-TR-02526 ..... 08 p1159 N84-17546 #
ARBRL-TR-02527 ..... 08 p1164 N84-17579 #
ARBRL-TR-02530 ..... 08 p1152 N84-17469 #
ARBRL-TR-02532 ..... 09 p1252 N84-18176 #
ARBRL-TR-02535 ..... 10 p1420 N84-19289 #
ARBRL-TR-02537 ..... 11 p1653 N84-20792 #
ARBRL-TR-02539 ..... 11 p1629 N84-20658 #
ARBRL-TR-02542 ..... 11 p1728 N84-21271 #
ARBRL-TR-02548 ..... 15 p2303 N84-24821 #
ARBRL-TR-02550-REV ..... 16 p2502 N84-26059 #
ARBRL-TR-02551 ..... 16 p2502 N84-26061 #
ARBRL-TR-02559 ..... 19 p3036 N84-29260 #
ARBRL-TR-02563 ..... 23 p3747 N84-33752 #

ARC-TN-1121 ..... 20 p3200 N84-30328* #
ARC-TN-1123 ..... 07 p1015 N84-16586* #

ARCSL-CR-83027 ..... 09 p1388 N84-19068 #
ARCSL-CR-83039 ..... 01 p0106 N84-10686 #
ARCSL-CR-83062 ..... 08 p1158 N84-17541 #
ARCSL-CR-83076 ..... 16 p2472 N84-25845 #

ARCSL-SP-81026 ..... 01 p0108 N84-10703 #
ARCSL-SP-83006 ..... 05 p0735 N84-14827 #

ARCSL-TM-81001 ..... 05 p0735 N84-14827 #

ARCSL-TR-83022 ..... 06 p0849 N84-15539 #
ARCSL-TR-83035 ..... 05 p0648 N84-14265 #
ARCSL-TR-83043 ..... 09 p1376 N84-18988 #
ARCSL-TR-83056 ..... 16 p2555 N84-26395 #
ARCSL-TR-83057 ..... 13 p2029 N84-23157 #

ARDU-TI-760 ..... 11 p1605 N84-20510 #

ARDU-TN-GEN-19 ..... 17 p2607 N84-26700 #

ARI-RN-83-31 ..... 05 p0719 N84-14712 #
ARI-RN-83-45 ..... 19 p3067 N84-29458 #
ARI-RN-83-50 ..... 10 p1592 N84-20428 #
ARI-RN-83-51 ..... 10 p1554 N84-20184 #
ARI-RN-83-52 ..... 10 p1498 N84-19791 #
ARI-RN-83-53 ..... 10 p1498 N84-19790 #
ARI-RN-84-25 ..... 11 p1702 N84-21101 #
ARI-RN-84-26 ..... 11 p1701 N84-21098 #
ARI-RN-84-30 ..... 11 p1620 N84-20606 #
ARI-RN-84-55 ..... 14 p2246 N84-24490 #
ARI-RN-84-68 ..... 15 p2382 N84-25288 #
ARI-RN-84-72 ..... 18 p2943 N84-28665 #
ARI-RN-84-74 ..... 24 p3936 N84-34915 #
ARI-RN-84-75 ..... 24 p3968 N84-35125 #
ARI-RN-84-76 ..... 24 p3937 N84-34920 #
ARI-RN-84-87 ..... 20 p3262 N84-30696 #
ARI-RN-84-91 ..... 20 p3313 N84-31037 #
ARI-RN-84-102 ..... 21 p3349 N84-31247 #
ARI-RN-84-108 ..... 22 p3638 N84-33062 #

ARI-RP-83-7 ..... 05 p0715 N84-14683 #

ARI-TR-570 ..... 03 p0459 N84-13020 #
ARI-TR-575 ..... 08 p1216 N84-17932 #
ARI-TR-585 ..... 15 p2384 N84-25298 #
ARI-TR-588 ..... 17 p2611 N84-26710 #
ARI-TR-596 ..... 21 p3459 N84-31942 #
ARI-TR-606 ..... 19 p3115 N84-29796 #
ARI-TR-610 ..... 19 p3066 N84-29451 #

ARI-13AR119 ..... 18 p2915 N84-28485* #
ARI-13AR183-35 ..... 18 p2915 N84-28485* #

ARINC-RES-PUBL-3104-01-TR-3100 ..... 13 p2066 N84-23401* #

ARINC-1481-11-1-3216 ..... 18 p2795 N84-27735 #

ARL-AERO-NOTE-417 ..... 09 p1317 N84-18606 #
ARL-AERO-NOTE-418 ..... 07 p0945 N84-16132 #
ARL-AERO-NOTE-421 ..... 14 p2100 N84-23603 #

ARL-AERO-REPT-157 ..... 04 p0483 N84-13174 #
ARL-AERO-REPT-158 ..... 08 p1096 N84-17128 #

ARL-AERO-TECH-MEMO-356 ..... 11 p1599 N84-20477 #

ARL-AERO-TM-345 ..... 01 p0013 N84-10081 #
ARL-AERO-TM-349 ..... 05 p0628 N84-14127 #
ARL-AERO-TM-352 ..... 05 p0728 N84-14777 #
ARL-AERO-TM-356 ..... 19 p2959 N84-28755 #
ARL-AERO-TM-359 ..... 21 p3345 N84-31222 #

ARL-MAT-NOTE-133 ..... 11 p1637 N84-20706 #

ARL-MAT-REPT-115 ..... 07 p0973 N84-16307 #

ARL-MECH-ENG-NOTE-393 ..... 04 p0486 N84-13191 #
ARL-MECH-ENG-NOTE-395 ..... 11 p1625 N84-20633 #

ARL-MECH-ENG-REPT-161 ..... 07 p1000 N84-16487 #
ARL-MECH-ENG-REPT-162 ..... 14 p2144 N84-23851 #

ARL-STRUC-MEMO-369 ..... 23 p3815 N84-34195 #

ARL-STRUC-NOTE-485 ..... 04 p0587 N84-13879 #
ARL-STRUC-NOTE-486 ..... 04 p0543 N84-13578 #
ARL-STRUC-NOTE-489 ..... 07 p1059 N84-16860 #
ARL-STRUC-NOTE-490 ..... 09 p1329 N84-18676 #
ARL-STRUC-NOTE-491 ..... 21 p3326 N84-31102 #

ARL-STRUC-REPT-393 ..... 12 p1824 N84-21889 #
ARL-STRUC-REPT-398 ..... 24 p3853 N84-34437 #
ARL-STRUC-REPT-399 ..... 24 p3887 N84-34617 #
ARL-STRUC-REPT-400 ..... 20 p3201 N84-30333 #
ARL-STRUC-REPT-401 ..... 24 p3912 N84-34772 #
ARL-STRUC-REPT-402 ..... 23 p3760 N84-33833 #

ARL-STRUC-TECH-MEMO-372 ..... 15 p2300 N84-24804 #

ARL-STRUC-395 ..... 03 p0425 N84-12780 #
ARL-STRUC-397 ..... 16 p2500 N84-26048 #

ARL-SYS-NOTE-83 ..... 04 p0592 N84-13910 #

ARL-SYS-TM-67 ..... 21 p3328 N84-31113 #
ARL-SYS-TM-69 ..... 16 p2454 N84-25732 #
ARL-SYS-TM-72 ..... 22 p3639 N84-33072 #
ARL-SYS-TM-73 ..... 22 p3637 N84-33058 #

ARL-TR-82-68 ..... 08 p1143 N84-17435* #
ARL-TR-83-24 ..... 07 p1010 N84-16549 #
ARL-TR-83-41 ..... 10 p1569 N84-20278 #
ARL-TR-84-8 ..... 17 p2763 N84-27550 #
ARL-TR-84-16 ..... 24 p3895 N84-34666 #

ARL/PSU/TM-83-13 ..... 01 p0078 N84-10511 #
ARL/PSU/TM-83-39 ..... 02 p0266 N84-11876 #
ARL/PSU/TM-83-89 ..... 07 p1002 N84-16496 #
ARL/PSU/TM-83-90 ..... 01 p0134 N84-10876 #
ARL/PSU/TM-83-95 ..... 06 p0909 N84-15904 #
ARL/PSU/TM-83-100 ..... 03 p0431 N84-12822 #
ARL/PSU/TM-83-201 ..... 14 p2145 N84-23856 #
ARL/PSU/TM-83-202 ..... 22 p3593 N84-32756 #
ARL/PSU/TM-84-28 ..... 20 p3284 N84-30651 #
ARL/PSU/TM-84-43 ..... 23 p3691 N84-33391 #
ARL/PSU/TM-84-79 ..... 19 p3025 N84-29182 #
ARL/PSU/TM-84-87-REV ..... 20 p3184 N84-30229 #
ARL/PSU/TM-84-91 ..... 20 p3291 N84-30893 #

ARL/STRUC-TM-359 ..... 03 p0388 N84-12532 #
ARL/STRUC-TM-361 ..... 01 p0009 N84-10051 #
ARL/STRUC-TM-362 ..... 06 p0786 N84-15147 #
ARL/STRUC-TM-364 ..... 09 p1258 N84-18211 #
ARL/STRUC-TM-365 ..... 11 p1606 N84-20518 #
ARL/STRUC-TM-366 ..... 17 p2603 N84-26682 #
ARL/STRUC-TM-368 ..... 21 p3328 N84-31114 #
ARL/STRUC-TM-370 ..... 21 p3357 N84-31293 #
ARL/STRUC-TM-371 ..... 21 p3422 N84-31704 #
ARL/STRUC-TM-373 ..... 21 p3328 N84-31115 #
ARL/STRUC-TM-374 ..... 19 p2955 N84-28729 #
ARL/STRUC-TM-380 ..... 22 p3611 N84-32878 #

ARLCB-MR-84013 ..... 20 p3153 N84-30022 #

ARLCB-TR-83023 ..... 02 p0231 N84-11518 #
ARLCB-TR-83024 ..... 08 p1170 N84-17625 #
ARLCB-TR-83030 ..... 09 p1334 N84-18707 #
ARLCB-TR-83032 ..... 09 p1282 N84-18372 #
ARLCB-TR-83033 ..... 17 p2623 N84-26786 #
ARLCB-TR-83040 ..... 09 p1284 N84-18384 #
ARLCB-TR-83045 ..... 18 p2818 N84-27890 #
ARLCB-TR-84001 ..... 14 p2158 N84-23929 #
ARLCB-TR-84005 ..... 17 p2680 N84-27071 #
ARLCB-TR-84008 ..... 20 p3281 N84-30628 #
ARLCB-TR-84016 ..... 21 p3421 N84-31703 #
ARLCB-TR-84017 ..... 23 p3718 N84-33567 #

ARLCD-CR-83008 ..... 02 p0218 N84-11428 #
ARLCD-CR-83053 ..... 17 p2764 N84-27556 #
ARLCD-CR-84001 ..... 14 p2132 N84-23779 #

ARLCD-TR-83033 ..... 04 p0493 N84-13238 #
ARLCD-TR-83040 ..... 18 p2844 N84-28060 #
ARLCD-TR-83045 ..... 09 p1280 N84-18357 #
ARLCD-TR-83048 ..... 17 p2619 N84-26758 #
ARLCD-TR-84002 ..... 14 p2145 N84-23857 #

ARM-NC-28 ..... 14 p2133 N84-23782 #

ARO-EL-83-12-14 ..... 15 p2321 N84-24938 #

ARO-84-1 ..... 14 p2196 N84-24173 #

ARO-84-2 ..... 24 p3938 N84-34927 #
ARO-1667.5-LS ..... 14 p2184 N84-24085 #
ARO-14044.9-MA ..... 21 p3474 N84-32016 #
ARO-14375.1-CH ..... 02 p0200 N84-11300 #
ARO-14585.4-EG ..... 07 p0951 N84-16174 #
ARO-14613-CH ..... 14 p2129 N84-23766 #
ARO-14692.8-MA ..... 02 p0280 N84-11836 #
ARO-14891-MA ..... 11 p1714 N84-21176 #
ARO-15074.14-MA ..... 05 p0729 N84-14788 #
ARO-15074.15-MA ..... 05 p0729 N84-14789 #
ARO-15486.17-MA ..... 08 p1124 N84-17306 #
ARO-15520.1-GS ..... 05 p0709 N84-14644 #
ARO-15529.11-GS ..... 01 p0108 N84-10704 #
ARO-15529.14-GS ..... 07 p1039 N84-16741 #
ARO-15532.4-EG ..... 09 p1278 N84-18347 #
ARO-15710.2-EG ..... 01 p0005 N84-10030 #
ARO-15780.7-EG ..... 11 p1652 N84-20787 #
ARO-15810.9-GS ..... 05 p0736 N84-14832 #
ARO-15812.7-MS ..... 21 p3366 N84-31354 #
ARO-15812.8-MS ..... 21 p3366 N84-31355 #
ARO-15972.3-EL ..... 02 p0210 N84-11371 #
ARO-16178.6-GS ..... 08 p1187 N84-17735 #
ARO-16201.9-CH ..... 19 p2999 N84-29006 #
ARO-16265.2-GS ..... 01 p0064 N84-10422 #
ARO-16272.2-LS ..... 08 p1201 N84-17832 #
ARO-16274.7-MS ..... 07 p0979 N84-16343 #
ARO-16355.5-MS ..... 09 p1333 N84-18705 #
ARO-16432.1-MS ..... 01 p0032 N84-10198 #
ARO-16462.1-GS ..... 01 p0148 N84-10970 #
ARO-16487.1-EL ..... 06 p0923 N84-16001 #
ARO-16492.3-PH ..... 06 p0801 N84-15223 #
ARO-16512.2-GS ..... 06 p0918 N84-15965 #
ARO-16537.19-MA ..... 08 p1124 N84-17306 #
ARO-16539.6-MA ..... 06 p0905 N84-15873 #
ARO-16620.8-PH ..... 12 p1898 N84-22362 #
ARO-16632.8-EL ..... 22 p3576 N84-32651 #
ARO-16636.17-GS ..... 07 p0993 N84-16440 #
ARO-16636.22-GS ..... 14 p2176 N84-24033 #
ARO-16636.23-GS ..... 14 p2140 N84-23832 #
ARO-16666.21-EG ..... 12 p1789 N84-21669 #
ARO-16729.5-LS ..... 05 p0713 N84-14675 #
ARO-16742.9-CH ..... 05 p0650 N84-14271 #
ARO-16782.1-MS ..... 05 p0646 N84-14246 #
ARO-16792.9-MA ..... 02 p0280 N84-11835 #
ARO-16796.1-CH ..... 02 p0200 N84-11302 #
ARO-16803.6-EG ..... 09 p1327 N84-18688 #
ARO-16807.12-MA ..... 08 p1220 N84-17965 #
ARO-16813.1-EL ..... 22 p3586 N84-32708 #
ARO-16822.4-MS ..... 07 p0979 N84-16344 #
ARO-16836.1-EL ..... 08 p1234 N84-18069 #
ARO-16850.2-MS ..... 11 p1627 N84-20651 #
ARO-16856.1-CH ..... 05 p0661 N84-14347 #
ARO-16859.19-EL ..... 08 p1151 N84-17490 #
ARO-16862.4-EG ..... 06 p0810 N84-15275 #
ARO-16864.11-PH ..... 09 p1388 N84-19065 #
ARO-16865.13-CH ..... 08 p1125 N84-17311 #
ARO-16869.7-PH ..... 06 p1235 N84-18073 #
ARO-16873.5-PH ..... 11 p1663 N84-20853 #
ARO-16881.7-MS ..... 17 p2764 N84-27557 #
ARO-16885.19-MS ..... 02 p0299 N84-11960 #
ARO-16903.3-EL ..... 02 p0213 N84-11396 #
ARO-16911.3-MS ..... 14 p2225 N84-24352 #
ARO-16915.5-EG ..... 12 p1792 N84-21686 #
ARO-16916.7-MS ..... 12 p1797 N84-21722 #
ARO-16928.8-MA ..... 21 p3474 N84-32016 #
ARO-16929.4-PH ..... 17 p2619 N84-26761 #
ARO-16936.1-EL ..... 08 p1235 N84-18070 #
ARO-16943.5-EL-A ..... 09 p1368 N84-18933 #
ARO-16961.3-CH ..... 02 p0200 N84-11300 #
ARO-16963.1-EG ..... 09 p1279 N84-18349 #
ARO-17001.7-EG ..... 23 p3713 N84-33538 #
ARO-17014.2-PH ..... 09 p1395 N84-19108 #
ARO-17036.3-EL ..... 19 p3110 N84-29761 #
ARO-17042.8-CH ..... 12 p1791 N84-21678 #
ARO-17048.1-EG ..... 19 p2959 N84-28752 #
ARO-17055.6-EG ..... 12 p1826 N84-21906 #
ARO-17062.5-EG ..... 19 p2966 N84-28799 #
ARO-17064.7-EG ..... 12 p1822 N84-21880 #
ARO-17067.8-EG ..... 07 p0951 N84-16174 #
ARO-17074.13-MA ..... 06 p0855 N84-15567 #
ARO-17090.3-PH ..... 06 p0923 N84-16000 #
ARO-17094.1-MS ..... 11 p1633 N84-20679 #
ARO-17103.18-EL ..... 11 p1744 N84-21381 #
ARO-17150.4-EL ..... 12 p1881 N84-22259 #
ARO-17150.5-EL ..... 19 p3076 N84-29516 #
ARO-17154.14-CH ..... 12 p1791 N84-21679 #
ARO-17161.6-MS ..... 01 p0044 N84-10282 #
ARO-17163.11-EL ..... 12 p1879 N84-22247 #
ARO-17165.42-MS ..... 01 p0138 N84-10906 #
ARO-17200.8-EL ..... 09 p1308 N84-18554 #
ARO-17207.3-MS ..... 21 p3357 N84-31294 #
ARO-17207.4-MS ..... 23 p3711 N84-33525 #
ARO-17209.59-EL ..... 08 p1150 N84-17487 #
ARO-17216.8-EG ..... 12 p1823 N84-21882 #
ARO-17224.6-PH ..... 21 p3370 N84-31383 #
ARO-17257.6-EL ..... 12 p1913 N84-22465 #
ARO-17266.5-PH ..... 12 p1820 N84-21864 #
ARO-17267.2-EG ..... 19 p2989 N84-28939 #
ARO-17292.7-PH ..... 13 p2043 N84-23253 #
ARO-17296.4-EL-A ..... 15 p2322 N84-24939 #
ARO-17298.1-MS ..... 11 p1633 N84-20679 #
ARO-17302.2-MA ..... 02 p0280 N84-11836 #
ARO-17312.2-CH ..... 11 p1744 N84-21380 #
ARO-17339.10-MA ..... 07 p1062 N84-16884 #
ARO-17339.11-MA ..... 11 p1714 N84-21176 #
ARO-17343.3-PH ..... 12 p1901 N84-22382 #
ARO-17344.1-EL ..... 23 p3830 N84-34293 #
ARO-17349.2-CH ..... 06 p0915 N84-15950 #
ARO-17355.5-CH ..... 19 p2988 N84-28933 #
ARO-17369.16-CH ..... 22 p3547 N84-32453 #
ARO-17372.7-EL ..... 13 p2024 N84-23124 #
ARO-17377.1-MS ..... 12 p1801 N84-21744 #
ARO-17378.4-EG ..... 07 p1002 N84-16497 #
ARO-17386.31-CH ..... 14 p2121 N84-23714 #
ARO-17401.6-MS ..... 11 p1669 N84-20888 #
ARO-17416.9-CH ..... 17 p2628 N84-26814 #
ARO-17421.1-MS ..... 19 p2993 N84-28968 #
ARO-17433.5-EL ..... 22 p3586 N84-32709 #
ARO-17438.13-CH ..... 14 p2129 N84-23766 #
ARO-17441.7-GS ..... 06 p0825 N84-15381 #
ARO-17446.4-EL ..... 12 p1811 N84-21804 #
ARO-17455.10-MS ..... 23 p3714 N84-33543 #
ARO-17458.6-CH ..... 09 p1278 N84-18346 #
ARO-17464.5-CH ..... 15 p2413 N84-25487 #
ARO-17538.5-EL ..... 14 p2202 N84-24218 #
ARO-17546.3-MS ..... 13 p1986 N84-22893 #
ARO-17561.3-CH ..... 14 p2123 N84-23723 #
ARO-17570.8-EL ..... 19 p3007 N84-29060 #
ARO-17603.1-GS ..... 01 p0087 N84-10566 #
ARO-17614.7-PH ..... 09 p1389 N84-19074 #
ARO-17633.1-PH-H ..... 09 p1322 N84-18637 #
ARO-17636.24-MA ..... 05 p0733 N84-14811 #
ARO-17643.11-MS ..... 15 p2297 N84-24787 #
ARO-17650.5-CH ..... 09 p1280 N84-18360 #
ARO-17653.8-MS ..... 12 p1798 N84-21730 #
ARO-17660.4-EL ..... 21 p3465 N84-31970 #
ARO-17672.1-MA-H-PT-1 ..... 01 p0122 N84-10795 #
ARO-17672.2-MA-H ..... 01 p0123 N84-10798 #
ARO-17673.6-EL ..... 17 p2663 N84-26990 #
ARO-17683.16-EL ..... 08 p1235 N84-18072 #
ARO-17687.15-EL-A ..... 08 p1235 N84-18071 #
ARO-17690.1-EG ..... 19 p3024 N84-29181 #
ARO-17691.2-EL ..... 13 p2042 N84-23252 #
ARO-17698.4-EG ..... 14 p2101 N84-23611 #
ARO-17710.8-CH ..... 19 p3002 N84-29023 #
ARO-17723.7-MA ..... 11 p1714 N84-21177 #
ARO-17731.3-EG ..... 11 p1665 N84-20862 #
ARO-17735.25-EL ..... 08 p1144 N84-17443 #
ARO-17735.33-EL ..... 18 p2833 N84-27987 #
ARO-17741.8-EG ..... 15 p2297 N84-24788 #
ARO-17743.3-CH ..... 12 p1820 N84-21865 #
ARO-17746.1-GS ..... 22 p3623 N84-32955 #
ARO-17761.15-EL ..... 23 p3731 N84-33648 #
ARO-17772.11-EL ..... 22 p3662 N84-33214 #
ARO-17775.3-PH-H ..... 06 p0918 N84-15966 #
ARO-17808.4-GS ..... 08 p1178 N84-17673 #
ARO-17823.2-LS ..... 12 p1845 N84-22027 #
ARO-17829.11-PH ..... 14 p2142 N84-23843 #
ARO-17877.6-MS ..... 22 p3555 N84-32509 #
ARO-17902.40-MA ..... 17 p2653 N84-26969 #
ARO-17920.13-EL ..... 08 p1210 N84-17889 #
ARO-17920.14-EL ..... 11 p1647 N84-20768 #
ARO-17937.4-PH ..... 18 p2845 N84-28068 #
ARO-17973.4-MS ..... 12 p1798 N84-21728 #
ARO-17975.2-MA ..... 05 p0736 N84-14831 #
ARO-17994.9-CH-S ..... 01 p0087 N84-10565 #
ARO-17997.14-CH ..... 23 p3714 N84-33542 #
ARO-18000.3-EG ..... 11 p1653 N84-20790 #
ARO-18014.4-EG ..... 07 p1016 N84-16594 #
ARO-18016.11-EL-A ..... 05 p0737 N84-14843 #
ARO-18023.1-EL-R ..... 05 p0719 N84-14714 #
ARO-18054.6-EL ..... 07 p0997 N84-16466 #
ARO-18054.9-EL ..... 08 p1144 N84-17444 #
ARO-18083.5-EL ..... 22 p3662 N84-33216 #
ARO-18084.5-CH ..... 09 p1275 N84-18323 #
ARO-18105.8-PH ..... 23 p3754 N84-33795 #
ARO-18172.25-CH-S ..... 17 p2619 N84-26760 #
ARO-18184.5-MS ..... 19 p2994 N84-28971 #
ARO-18195.4-MA ..... 07 p1054 N84-16826 #
ARO-18195.5-MA ..... 08 p1223 N84-17987 #
ARO-18195.6-MA ..... 08 p1213 N84-17910 #
ARO-18197.4-MA ..... 02 p0282 N84-11847 #
ARO-18208.2-MA ..... 19 p3089 N84-29610 #
ARO-18238.6-MS ..... 16 p2469 N84-25823 #
ARO-18239.5-PH ..... 08 p1131 N84-17358 #
ARO-18328.5-MA ..... 09 p1375 N84-18978 #
ARO-18381.4-CH ..... 16 p2496 N84-26017 #
ARO-18407.2-CH ..... 15 p2337 N84-25028 #
ARO-18414.2-EG ..... 12 p1798 N84-21727 #
ARO-18414.4-EG ..... 17 p2624 N84-26794 #
ARO-18424.13-MA ..... 09 p1375 N84-18979 #
ARO-18465.1-EL-S ..... 05 p0730 N84-14791 #

ARO-18483.5-EL ..... 09 p1368 N84-18934 #
ARO-18484.1-MA ..... 19 p3094 N84-29646 #
ARO-18532.3-EL ..... 02 p0280 N84-11833 #
ARO-18545.1-CH ..... 23 p3714 N84-33540 #
ARO-18553.4-EL ..... 01 p0122 N84-10794 #
ARO-18570.15-EL ..... 09 p1321 N84-18631 #
ARO-18609.1-LS ..... 18 p2914 N84-28482 #
ARO-18619.1-EL ..... 08 p1151 N84-17489 #
ARO-18628.6-MS ..... 05 p0659 N84-14333 #
ARO-18663.7-MA ..... 02 p0280 N84-11838 #
ARO-18668.2-PH-H ..... 09 p1322 N84-18637 #
ARO-18690.5-EL ..... 01 p0119 N84-10772 #
ARO-18690.6-EL ..... 05 p0728 N84-14783 #
ARO-18690.8-EL ..... 09 p1368 N84-18931 #
ARO-18690.9-EL ..... 07 p1052 N84-16814 #
ARO-18782.5-CH ..... 06 p0801 N84-15225 #
ARO-18801.2-PH ..... 01 p0153 N84-11004 #
ARO-18814.9-MA ..... 12 p1897 N84-22354 #
ARO-18828.1-LS-S ..... 06 p0686 N84-15759 #
ARO-18856.4-MS ..... 12 p1797 N84-21724 #
ARO-18863.6-EG ..... 14 p2123 N84-23724 #
ARO-18898.3-MA ..... 08 p1219 N84-17960 #
ARO-18936.4-PH ..... 17 p2619 N84-26761 #
ARO-18978.5-CH ..... 21 p3359 N84-31304 #
ARO-18986.3-EL ..... 06 p0825 N84-15376 #
ARO-18995.1-GS ..... 05 p0709 N84-14644 #
ARO-19063.5-EG ..... 11 p1669 N84-20887 #
ARO-19065.10-MA ..... 22 p3648 N84-33128 #
ARO-19085.6-MA ..... 11 p1715 N84-21186 #
ARO-19159.1-EL ..... 19 p3072 N84-29491 #
ARO-19201.2-EG-H ..... 22 p3593 N84-32754 #
ARO-19274.3-MA ..... 01 p0122 N84-10796 #
ARO-19297.2-MA ..... 02 p0266 N84-11747 #
ARO-19297.3-MA ..... 02 p0280 N84-11837 #
ARO-19297.4-MA ..... 02 p0268 N84-11888 #
ARO-19297.5-MA ..... 09 p1375 N84-18982 #
ARO-19298.3-MA ..... 06 p0901 N84-15851 #
ARO-19305.2-EG ..... 14 p2101 N84-23609 #
ARO-19350.1-EL ..... 07 p1081 N84-17026 #
ARO-19367.6 ..... 05 p0736 N84-14833 #
ARO-19367.8-MA ..... 08 p1220 N84-17961 #
ARO-19367.13-MA ..... 22 p3648 N84-33132 #
ARO-19442.13-MA ..... 21 p3475 N84-32022 #
ARO-19442.14-MA ..... 21 p3475 N84-32021 #
ARO-19442.15-MA ..... 21 p3473 N84-32012 #
ARO-19442.16-MA ..... 23 p3820 N84-34223 #
ARO-19442.17-MA ..... 22 p3648 N84-33126 #
ARO-19442.18-MA ..... 22 p3648 N84-33125 #
ARO-19442.19-MA ..... 22 p3648 N84-33127 #
ARO-19442.20-MA ..... 21 p3475 N84-32024 #
ARO-19506.1-EL ..... 19 p3013 N84-29098 #
ARO-19572.1-EG-S ..... 12 p1816 N84-21836 #
ARO-19778.3-EL ..... 23 p3731 N84-33651 #
ARO-19778.4-EL ..... 23 p3731 N84-33646 #
ARO-19862.1-GS ..... 17 p2734 N84-27378 #
ARO-19913.1-MS-A ..... 14 p2119 N84-23701 #
ARO-19961.1-EG-CF ..... 16 p2466 N84-25806 #
ARO-19967.1-MS ..... 12 p1898 N84-22360 #
ARO-19972.4-EG ..... 19 p2966 N84-28796 #
ARO-19985.1-GS ..... 14 p2179 N84-24051 #
ARO-20004.5-CH ..... 05 p0650 N84-14274 #
ARO-20063.1-MA ..... 22 p3648 N84-33132 #
ARO-20126.1-AA ..... 02 p0278 N84-11819 #
ARO-20140.3-MA ..... 04 p0581 N84-13831 #
ARO-20140.4-MA ..... 05 p0729 N84-14786 #
ARO-20140.5-MA ..... 05 p0740 N84-14861 #
ARO-20140.6-MA ..... 04 p0590 N84-13900 #
ARO-20155.1-MA ..... 23 p3817 N84-34203 #
ARO-20168.1-EL ..... 13 p1975 N84-22821 #
ARO-20222.1-EG-CF ..... 15 p2306 N84-24833 #
ARO-20474.1-MA ..... 09 p1386 N84-19055 #
ARO-20637.1-EL ..... 11 p1647 N84-20768 #
ARO-20638.1-MA ..... 14 p2214 N84-24300 #
ARO-20955.1-MS ..... 16 p2469 N84-25825 #
ARO-21096.1-MA ..... 18 p2927 N84-28563 #
ARO-21096.2-MA ..... 18 p2927 N84-28562 #

ARPAD-TR-83003 ..... 09 p1332 N84-18699 #

ARR-NE-13 ..... 02 p0236 N84-11548* #

ARRO-R83-10 ..... 19 p3066 N84-29451 #

ARSCD-TR-83016 ..... 24 p3879 N84-34578 #

AS-TR-459-4 ..... 06 p0896 N84-15817 #
AS-TR-459-5 ..... 06 p0866 N84-15643 #

AS-142 ..... 08 p1192 N84-17770 #

ASCOT-83-4 ..... 11 p1688 N84-21009 #

ASD(ENA)-TR-82-5031-VOL-1 ..... 21 p3329 N84-31121 #
ASD(ENA)-TR-82-5031-VOL-2 ..... 21 p3335 N84-31165 #
ASD(ENA)-TR-82-5031-VOL-3 ..... 21 p3342 N84-31201 #
ASD(ENA)-TR-82-5031-VOL-4 ..... 21 p3342 N84-31202 #
ASD(ENA)-TR-82-5031-VOL-5 ..... 21 p3342 N84-31203 #
ASD(ENA)-TR-82-5031-VOL-6 ..... 21 p3342 N84-31204 #
ASD(ENA)-TR-82-5031-VOL-7 ..... 21 p3342 N84-31205 #
ASD(ENA)-TR-82-5031-VOL-8 ..... 21 p3342 N84-31206 #
ASD(ENA)-TR-82-5031-VOL-9 ..... 21 p3342 N84-31207 #

ASD-ENSS-84-1 ..... 20 p3202 N84-30337 #

ASD-TR-83-5014 ..... 09 p1310 N84-18563 #
ASD-TR-84-5006 ..... 20 p3202 N84-30337 #

ASD/ENA-TR-83-5019 ..... 17 p2588 N84-26587 #

ASE-4818 ..... 11 p1759 N84-21482 #

ASECR-83-126 ..... 03 p0340 N84-12211 #

ASL-TR-1054 ..... 08 p1136 N84-17390 #

ASP-355 ..... 21 p3450 N84-31896* #

ASR-1 ..... 22 p3630 N84-33005 #
ASR-2 ..... 16 p2493 N84-25994 #
ASR-2 ..... 20 p3220 N84-30455* #
ASR-4 ..... 10 p1465 N84-19571 #
ASR-4 ..... 20 p3149 N84-29994 #

ASRC-PUB-970 ..... 20 p3302 N84-30967 #

ASRL-TR-198-1 ..... 03 p0331 N84-12160 #

ASR84-45 ..... 19 p3001 N84-29018* #

AST-84-1808 ..... 19 p3050 N84-29357* #
AST-84-1808-VOL-2 ..... 21 p3433 N84-31783* #

AS145 ..... 17 p2735 N84-27384 #

ATAC0-SV8007-2 ..... 10 p1570 N84-20284 #

ATC-R-81100/2CR-49 ..... 01 p0080 N84-10517 #
ATC-R-92000/3CR-9 ..... 06 p0799 N84-15205 #
ATC-R-92000/3CR-35 ..... 01 p0043 N84-10278 #

ATC-115 ..... 14 p2104 N84-23618 #
ATC-117 ..... 11 p1642 N84-20736 #
ATC-118 ..... 04 p0482 N84-13171 #
ATC-120 ..... 12 p1768 N84-21531 #
ATC-123 ..... 04 p0484 N84-13181 #
ATC-124 ..... 23 p3800 N84-34091 #

ATR-1 ..... 08 p1212 N84-17905 #
ATR-1 ..... 14 p2242 N84-24464 #
ATR-2 ..... 02 p0206 N84-11341 #
ATR-2 ..... 06 p0885 N84-15757 #
ATR-2 ..... 17 p2745 N84-27430 #
ATR-2 ..... 19 p3079 N84-29534 #
ATR-3 ..... 11 p1744 N84-21382 #
ATR-3 ..... 14 p2134 N84-23791 #
ATR-20 ..... 09 p1362 N84-18896 #
ATR-83(3813-07)-1ND ..... 01 p0102 N84-10663* #
ATR-83(9990)-3 ..... 03 p0464 N84-13056* #

AT83D043 ..... 12 p1822 N84-21878 #

AU-AFIT-ED-TR-83-1 ..... 07 p1050 N84-16800 #

AU-AFIT-EN-TR-83-3 ..... 14 p2206 N84-24237 #
AU-AFIT-EN-TR-83-4 ..... 15 p2420 N84-25535 #
AU-AFIT-EN-TR-84-1 ..... 19 p2980 N84-28888 #

AU-AFIT-LS-1-84 ..... 13 p2064 N84-23385 #

AUWE-TN-705/83 ..... 03 p0430 N84-12818

AV-13/83 ..... 18 p2931 N84-28586 #
AV-93019-1 ..... 17 p2668 N84-27013 #

AVAA-TR-81-0089-5 ..... 06 p0866 N84-15643 #

AVRADCOM-TR-81-B-6 ..... 18 p2788 N84-27694* #
AVRADCOM-TR-81-C-28 ..... 19 p2966 N84-28795* #
AVRADCOM-TR-82-B-2 ..... 19 p2957 N84-28743* #
AVRADCOM-TR-83-A-12 ..... 02 p0174 N84-11142* #
AVRADCOM-TR-83-B-4 ..... 01 p0094 N84-10609* #
AVRADCOM-TR-83-B-5 ..... 01 p0094 N84-10610* #
AVRADCOM-TR-83-C-9 ..... 02 p0229 N84-11500* #
AVRADCOM-TR-83-C-10 ..... 07 p1001 N84-16492* #
AVRADCOM-TR-83-C-11 ..... 05 p0631 N84-14145* #
AVRADCOM-TR-84-C-2 ..... 08 p1166 N84-17592* #
AVRADCOM-TR-84-C-6 ..... 13 p1932 N84-22564* #

AVSCOM-TM-84-A-1 ..... 14 p2100 N84-23606* #
AVSCOM-TM-84-B-2 ..... 24 p3879 N84-34577* #

AVSCOM-TR-83-A-17 ..... 09 p1250 N84-18159* #

AVSCOM-TR-83-B-1 ..... 08 p1227 N84-18018* #
AVSCOM-TR-83-B-7 ..... 08 p1103 N84-17175* #
AVSCOM-TR-83-C-6 ..... 08 p1130 N84-17350* #
AVSCOM-TR-84-B-1 ..... 18 p2852 N84-28112* #
AVSCOM-TR-84-C-5 ..... 22 p3536 N84-32388* #
AVSCOM-TR-84-D-2 ..... 10 p1549 N84-20155* #

AVSD-0020-83-CR ..... 01 p0090 N84-10589 #
AVSD-0343-83-RR ..... 08 p1099 N84-17148 #

AWS/TI-82/001 ..... 14 p2179 N84-24054 #
AWS/TI-83/001 ..... 14 p2179 N84-24054 #

AWS/TR-83/002-VOL-1 ..... 18 p2889 N84-28341 #
AWS/TR-83/002-VOL-2 ..... 19 p3058 N84-29402 #

A03674 ..... 09 p1299 N84-18490 #

B-173761 ..... 02 p0303 N84-11987 #
B-197116 ..... 12 p1767 N84-21526 #
B-197119 ..... 20 p3127 N84-29858 #
B-202205 ..... 20 p3314 N84-31044 #
B-205335 ..... 08 p1120 N84-17286 #
B-206180 ..... 09 p1370 N84-18944 #
B-206829 ..... 22 p3674 N84-33294 #
B-209123 ..... 01 p0002 N84-10012 #
B-210587 ..... 20 p3240 N84-30570 #
B-212184 ..... 08 p1239 N84-18097 #
B-213889 ..... 22 p3533 N84-32371 #
B-214677 ..... 20 p3133 N84-29893 #

BAC-D180-28273-1 ..... 11 p1625 N84-20634* #
BAC-D180-28274-1 ..... 11 p1636 N84-20699* #

BAE-ARG-188 ..... 20 p3132 N84-29887

BAE-BT-10658 ..... 13 p1935 N84-22586
BAE-BT-10771 ..... 13 p2016 N84-23070
BAE-BT-11066 ..... 13 p2021 N84-23102
BAE-BT-11172 ..... 13 p2031 N84-23170
BAE-BT-11177 ..... 13 p2021 N84-23103
BAE-BT-11240 ..... 13 p2020 N84-23096
BAE-BT-11241 ..... 13 p2021 N84-23104
BAE-BT-11286 ..... 13 p2021 N84-23105
BAE-BT-11393 ..... 13 p2042 N84-23249
BAE-BT-11729 ..... 13 p2026 N84-23131
BAE-BT-11969 ..... 13 p2023 N84-23116
BAE-BT-12051 ..... 13 p2023 N84-23117
BAE-BT-12363 ..... 13 p2023 N84-23118
BAE-BT-12841 ..... 13 p2042 N84-23250
BAE-BT-13122 ..... 13 p2026 N84-23132
BAE-BT-14586 ..... 13 p2021 N84-23106

BAE-KRS-N-GEN-275 ..... 17 p2622 N84-26779
BAE-KRS-N-GEN-276 ..... 17 p2603 N84-26576

BAE-821/RES/6631 ..... 13 p1988 N84-22904

BAR-2 ..... 10 p1456 N84-19510 #

BATT-G8186-685-84 ..... 14 p2155 N84-23910 #

BBC-RD-1983/11 ..... 05 p0666 N84-14380 #
BBC-RD-1983/12 ..... 05 p0665 N84-14373 #
BBC-RD-1983/13 ..... 04 p0517 N84-13396
BBC-RD-1983/14 ..... 05 p0665 N84-14372 #
BBC-RD-1983/15 ..... 05 p0665 N84-14375 #
BBC-RD-1983/16 ..... 11 p1642 N84-20732 #
BBC-RD-1983/17 ..... 05 p0665 N84-14374 #
BBC-RD-1983/18 ..... 07 p0986 N84-16386
BBC-RD-1983/19 ..... 09 p1298 N84-18483 #
BBC-RD-1984/1 ..... 13 p1975 N84-22818 #
BBC-RD-1984/2 ..... 13 p1975 N84-22819 #
BBC-RD-1984/3 ..... 21 p3381 N84-31454
BBC-RD-1984/4 ..... 20 p3172 N84-30141
BBC-RD-1984/5 ..... 21 p3381 N84-31455
BBC-RD-1984/6 ..... 20 p3172 N84-30142
BBC-RD-1984/7 ..... 22 p3571 N84-32615
BBC-RD-1984/8 ..... 22 p3571 N84-32614

BBN-5058 ..... 19 p3099 N84-29687* #
BBN-5086 ..... 14 p2209 N84-24280 #
BBN-5238 ..... 04 p0580 N84-13827 #
BBN-5261 ..... 15 p2388 N84-25328 #
BBN-5273 ..... 12 p1821 N84-21870 #
BBN-5314 ..... 05 p0713 N84-14675 #
BBN-5322 ..... 12 p1899 N84-22368 #
BBN-5324 ..... 20 p3291 N84-30892 #
BBN-5336 ..... 02 p0277 N84-11818 #
BBN-5356 ..... 02 p0176 N84-11156* #
BBN-5368 ..... 05 p0732 N84-14807 #
BBN-5374 ..... 02 p0278 N84-11825 #
BBN-5375 ..... 02 p0278 N84-11820 #
BBN-5376 ..... 01 p0065 N84-10423 #
BBN-5386 ..... 05 p0732 N84-14806 #
BBN-5401 ..... 21 p3462 N84-31950 #

BBN-5408 ..... 05 p0670 N84-14405 #
BBN-5421 ..... 05 p0726 N84-14765 #
BBN-5450 ..... 15 p2404 N84-25429 #
BBN-5485 ..... 10 p1482 N84-19682 #
BBN-5489 ..... 10 p1554 N84-20186 #
BBN-5492 ..... 09 p1298 N84-18486 #
BBN-5499 ..... 10 p1554 N84-20185 #
BBN-5504 ..... 18 p2829 N84-27959 #
BBN-5520 ..... 22 p3545 N84-32440 #
BBN-5527 ..... 17 p2680 N84-27070 #
BBN-5584 ..... 17 p2748 N84-27444 #

BBSO-0228 ..... 10 p1597 N84-20464* #
BBSO-0229 ..... 22 p3656 N84-33178* #
BBSO-0230 ..... 09 p1415 N84-19260* #

BC-SDAL-83-1 ..... 15 p2354 N84-25127 #

BCS-40389 ..... 12 p1876 N84-22227* #
BCS-40446 ..... 19 p3074 N84-29502* #

BDM-12780 ..... 12 p1791 N84-21682 #

BDM/A-83-020-TR ..... 10 p1480 N84-19671 #
BDM/A-83-020-TR-VOL-3-PT-2 ..... 11 p1644 N84-20750 #
BDM/A-83-020-TR-VOL-3-PT-3 ..... 10 p1480 N84-19673 #
BDM/A-83-020-TR-VOL-3-PT-4 ..... 10 p1480 N84-19674 #
BDM/A-83-170-TR ..... 10 p1480 N84-19669 #
BDM/A-83-172-TR ..... 10 p1480 N84-19670 #

BDM/W-82-592-TR-VOL-2 ..... 01 p0016 N84-10105 #
BDM/W-82-770-TR ..... 03 p0338 N84-12195 #
BDM/W-83-319-TR ..... 14 p2105 N84-23625 #
BDM/W-83-444-TR ..... 06 p0897 N84-15823 #
BDM/W-83-610-TR ..... 08 p1161 N84-17561 #

BDX-613-2859R ..... 01 p0093 N84-10602 #
BDX-613-2896 ..... 01 p0085 N84-10551 #
BDX-613-2911 ..... 15 p2340 N84-25044 #
BDX-613-2949 ..... 02 p0188 N84-11224 #
BDX-613-2961 ..... 04 p0539 N84-13545 #
BDX-613-2962 ..... 04 p0539 N84-13544 #
BDX-613-2973 ..... 14 p2121 N84-23709 #
BDX-613-2981 ..... 06 p0898 N84-15832 #
BDX-613-2982 ..... 04 p0582 N84-13842 #
BDX-613-2983 ..... 04 p0492 N84-13229 #
BDX-613-2990 ..... 04 p0508 N84-13331 #
BDX-613-2992 ..... 08 p1206 N84-17862 #
BDX-613-3001 ..... 08 p1135 N84-17382 #
BDX-613-3009 ..... 10 p1462 N84-19551 #
BDX-613-3013 ..... 12 p1802 N84-21749 #
BDX-613-3015 ..... 13 p1998 N84-22963 #
BDX-613-3017 ..... 12 p1823 N84-21885 #
BDX-613-3024 ..... 11 p1661 N84-20834 #
BDX-613-3033 ..... 12 p1878 N84-22238 #
BDX-613-3048 ..... 12 p1799 N84-21733 #
BDX-613-3060 ..... 20 p3197 N84-30305 #
BDX-613-3062 ..... 20 p3197 N84-30302 #
BDX-613-3072 ..... 23 p3752 N84-33784 #

BEERS-1-83-70-15 ..... 01 p0086 N84-10561 #

BEL-79-2/AFOSR-79-6 ..... 19 p3065 N84-29446 #
BEL-83-1/ONR-83-1 ..... 14 p2187 N84-24105 #

BER-274-100 ..... 23 p3750 N84-33773* #
BER-299-100 ..... 18 p2802 N84-27781 #
BER-300-100 ..... 18 p2802 N84-27782 #

BL-450/84 ..... 18 p2900 N84-28399 #
BL-5577 ..... 23 p3700 N84-33449 #

BLEV-R-64.225 ..... 16 p2482 N84-25913 #
BLEV-R-65.169-5 ..... 16 p2529 N84-26237 #

BLL-CE-TRANS-7949-(9022.09) ..... 06 p0857 N84-15583 #
BLL-CE-TRANS-7988-(9022.09) 19 p2987 N84-28926
BLL-CE-TRANS-7989-(9022.09) 19 p2987 N84-28925
BLL-CE-TRANS-8000-(9022.09) ..... 06 p0851 N84-15550 #
BLL-CE-TRANS-8002-(9022.09) 21 p3363 N84-31336
BLL-CE-TRANS-8003-(9022.09) 19 p2991 N84-28956
BLL-CE-TRANS-8005-(9022.09) 19 p2987 N84-28924

BLL-CTO-2199-(9091.9F) ..... 12 p1909 N84-22437 #
BLL-CTO-2261-(9091.9F) 19 p2991 N84-28953

BLL-DOUNREAY-TR-923-(9091.9F) 09 p1311 N84-18568

BLL-DRIC-T-6968-(3623.66) ..... 06 p0851 N84-15549 #
BLL-DRIC-T-6970-(3623.66) ..... 06 p0846 N84-15517 #
BLL-DRIC-T-7149-(3623.66) ..... 19 p3109 N84-29757 #

BLL-ERA-TRANS-2920 ..... 17 p2621 N84-26776
BLL-ERA-TRANS-3002/23 ..... 17 p2662 N84-26982

BLL-LTS-1200/83-(5828.4F) 08 p1136 N84-17386

BLL-M-28708-(5828.4) ..... 01 p0048 N84-10308 #
BLL-M-28719-(5828.4) ..... 01 p0048 N84-10309 #
BLL-M-28720-(5828.4) ..... 02 p0198 N84-11292 #
BLL-M-28724-(5828.4) ..... 02 p0246 N84-11613 #
BLL-M-28752-(5828.4) 09 p1328 N84-18671
BLL-M-28767-(5825.4) 20 p3290 N84-30885
BLL-M-29666-(5828.4) ..... 24 p3880 N84-34579 #
BLL-M-30130-(5828.4) ..... 01 p0151 N84-10995 #
BLL-M-35095-(5828.4) ..... 01 p0042 N84-10271 #
BLL-M-35105-(5828.4) ..... 01 p0036 N84-10226 #
BLL-M-35109-(5828.4) ..... 01 p0040 N84-10254 #
BLL-M-35115-(5828.4) ..... 01 p0152 N84-10997 #
BLL-M-35116-(5828.4) ..... 01 p0151 N84-10996 #
BLL-M-35117-(5828.4) ..... 01 p0040 N84-10255 #
BLL-M-35118-(5828.4) ..... 01 p0040 N84-10252 #
BLL-M-35125-(5828.4) ..... 01 p0093 N84-10607 #
BLL-M-35126-(5828.4) ..... 01 p0138 N84-10902 #
BLL-M-35127-(5828.4) ..... 01 p0040 N84-10251 #
BLL-M-35131-(5828.4) ..... 01 p0040 N84-10253 #
BLL-M-35132-(5828.4) ..... 01 p0152 N84-10998 #
BLL-M-35167-(5828.4) ..... 01 p0040 N84-10257 #
BLL-M-35170-(5828.4) ..... 01 p0030 N84-10187 #
BLL-M-35179-(5828.4) ..... 01 p0041 N84-10264 #
BLL-M-35192-(5828.4) ..... 01 p0040 N84-10258 #
BLL-M-35200-(5828.4) ..... 01 p0042 N84-10272 #
BLL-M-35209-(5828.4) ..... 01 p0041 N84-10259 #
BLL-M-35211-(5828.4) ..... 01 p0041 N84-10260 #
BLL-M-35212-(5828.4) ..... 01 p0041 N84-10262 #
BLL-M-35213-(5828.4) ..... 01 p0041 N84-10261 #
BLL-M-35214-(5828.4) ..... 01 p0041 N84-10263 #
BLL-M-35219-(5828.4) ..... 01 p0040 N84-10256 #
BLL-M-35267-(5828.4) ..... 06 p0854 N84-15564 #
BLL-M-35268-(5828.4) ..... 06 p0857 N84-15584 #
BLL-M-35271-(5828.4) ..... 06 p0803 N84-15231 #
BLL-M-35284-(5828.4) ..... 06 p0803 N84-15232 #
BLL-M-35287-(5828.4) ..... 06 p0856 N84-15574 #
BLL-M-35292-(5828.4) ..... 06 p0803 N84-15233 #
BLL-M-35293-(5828.4) ..... 06 p0803 N84-15234 #
BLL-M-35295-(5828.4) ..... 06 p0908 N84-15895 #
BLL-M-35321 ..... 04 p0497 N84-13258 #
BLL-M-35347-(5828.4) ..... 04 p0497 N84-13262 #
BLL-M-35351-(5828.4F) ..... 04 p0545 N84-13594 #
BLL-M-35352 ..... 04 p0543 N84-13575 #
BLL-M-35357-(5828.4) ..... 04 p0497 N84-13261 #
BLL-M-35367-(5828.4) 09 p1281 N84-18364
BLL-M-35369-(5828.4F) ..... 04 p0547 N84-13606 #
BLL-M-35373 ..... 08 p1140 N84-17414
BLL-M-35379 ..... 09 p1328 N84-18672
BLL-M-35384-(5828.4) ..... 08 p1140 N84-17415 #
BLL-M-35385-(5828.4) ..... 08 p1129 N84-17344 #
BLL-M-35386 ..... 09 p1393 N84-19095
BLL-M-35387-(5828.4) ..... 08 p1129 N84-17343 #
BLL-M-35391-(5828.4) ..... 08 p1165 N84-17589 #
BLL-M-35406(5828.4) 09 p1281 N84-18365
BLL-M-35416-(5828.4) ..... 07 p0973 N84-16306 #
BLL-M-35430-(5828.4) ..... 08 p1129 N84-17342 #
BLL-M-35432 ..... 09 p1280 N84-18362
BLL-M-35433-(5828.4) ..... 08 p1169 N84-17612 #
BLL-M-35434-(5828.4) 09 p1281 N84-18363
BLL-M-35437-(5828.4) ..... 08 p1154 N84-17513 #
BLL-M-35438-(5828.4) ..... 12 p1825 N84-21896 #
BLL-M-35442 ..... 09 p1324 N84-18651
BLL-M-35452-(5828.4) 08 p1169 N84-17613
BLL-M-35454-(5828.4) 09 p1391 N84-19083
BLL-M-35461-(5828.4) ..... 12 p1821 N84-21872 #
BLL-M-35465-(5828.4) ..... 12 p1796 N84-21713 #
BLL-M-35476-(5828.4) ..... 12 p1796 N84-21714 #
BLL-M-35490-(5828.4) ..... 12 p1795 N84-21708 #
BLL-M-35498-(5828.4) ..... 12 p1795 N84-21709 #
BLL-M-35502-(5828.4) ..... 12 p1795 N84-21710 #
BLL-M-35503-(5828.4) ..... 12 p1795 N84-21711 #
BLL-M-35504-(5828.4) ..... 12 p1796 N84-21712 #
BLL-M-35526-(5828.4) ..... 13 p1960 N84-22733 #
BLL-M-35543-(5828.4) ..... 17 p2621 N84-26772 #
BLL-M-35544-(5828.4) ..... 17 p2674 N84-27036 #
BLL-M-35545-(5828.4) ..... 17 p2621 N84-26774 #
BLL-M-35552-(5828.4) ..... 17 p2621 N84-26773 #
BLL-M-35553-(5828.4) ..... 17 p2621 N84-26775 #
BLL-M-35555-(5828.4) 17 p2676 N84-27047
BLL-M-35558-(5828.4) ..... 17 p2764 N84-27553 #
BLL-M-35559-(5828.4) ..... 17 p2767 N84-27570 #
BLL-M-35560-(5828.4) ..... 17 p2621 N84-26771 #
BLL-M-35561-(5828.4) ..... 17 p2665 N84-26995 #
BLL-M-35562-(5828.4) ..... 17 p2665 N84-26996 #
BLL-M-35571-(5828.4) 20 p3165 N84-30102
BLL-M-35595-(5828.4) 21 p3363 N84-31337
BLL-M-35596-(5828.4) 19 p3031 N84-29222
BLL-M-35598-(5828.4) 19 p2991 N84-28955
BLL-M-35601-(5828.4) 19 p3020 N84-29146
BLL-M-35602-(5828.4) 19 p3082 N84-29554
BLL-M-35604-(5828.4) 21 p3516 N84-32273
BLL-M-35605-(5828.4) 21 p3508 N84-32222
BLL-M-35611-(5828.4) 20 p3182 N84-30220
BLL-M-35633-(5828.4) 22 p3551 N84-32482
BLL-M-35634-(5828.4) 22 p3551 N84-32481
BLL-M-35640-(5828.4) 22 p3551 N84-32480
BLL-M-35641-(5828.4) 22 p3553 N84-32496
BLL-M-35642-(5828.4) 22 p3553 N84-32497
BLL-M-35653-(5828.4) 22 p3552 N84-32466
BLL-M-35656-(5828.4) 22 p3550 N84-32473
BLL-M-35657-(5828.4) 22 p3550 N84-32474
BLL-M-35668-(5828.4) 22 p3553 N84-32500
BLL-M-35671-(5828.4) 22 p3553 N84-32501
BLL-M-35672-(5828.4) 22 p3553 N84-32496
BLL-M-35673-(5828.4) 22 p3545 N84-32444
BLL-M-35674-(5828.4) 22 p3592 N84-32747
BLL-M-35680-(5828.4) 22 p3608 N84-32861
BLL-M-35681-(5828.4) 22 p3603 N84-32822
BLL-M-35682-(5828.4) 22 p3553 N84-32499
BLL-M-35684-(5828.4) 22 p3553 N84-32495
BLL-M-35686-(5828.4) 22 p3551 N84-32485
BLL-M-35687-(5828.4) 22 p3551 N84-32479
BLL-M-35689-(5828.4) 22 p3844 N84-33104
BLL-M-35690-(5828.4) 22 p3608 N84-32860
BLL-M-35698-(5828.4) 22 p3551 N84-32483

BLL-MO-TRANS-1570-(9022.552) ..... 08 p1190 N84-17753 #

BLL-OA-TRANS-2620-(6196.3) ..... 01 p0069 N84-10448 #
BLL-OA-TRANS-2633-(6196.3) ..... 04 p0524 N84-13448 #
BLL-OA-TRANS-2634-(6196.3) ..... 04 p0524 N84-13447 #
BLL-OA-TRANS-2639-(6196.3) ..... 04 p0533 N84-13503 #
BLL-OA-TRANS-3003-(6196.3) ..... 01 p0043 N84-10276 #
BLL-OA-TRANS-3004-(6196.3) ..... 01 p0043 N84-10275 #
BLL-OA-TRANS-3010-(6196.3) ..... 01 p0042 N84-10273 #
BLL-OA-TRANS-3028-(6196.3) ..... 01 p0043 N84-10274 #
BLL-OA-TRANS-3037-(6196.3) ..... 06 p0800 N84-15213 #
BLL-OA-TRANS-3047-(6196.3) 04 p0533 N84-13502
BLL-OA-TRANS-3057-(6196.3) ..... 04 p0497 N84-13260 #
BLL-OA-TRANS-3066-(6196.3) ..... 06 p0804 N84-15238 #
BLL-OA-TRANS-3067-(6196.3) 04 p0498 N84-13266
BLL-OA-TRANS-3068-(6196.3) 04 p0498 N84-13267
BLL-OA-TRANS-3070-(6196.3) ..... 04 p0497 N84-13259 #
BLL-OA-TRANS-3082-(6196.3) ..... 06 p0804 N84-15237 #
BLL-OA-TRANS-3090-(6196.3) 09 p1311 N84-18569
BLL-OA-TRANS-3093-(6196.3) ..... 08 p1128 N84-17336 #
BLL-OA-TRANS-3095-(6196.3) ..... 06 p0804 N84-15239 #
BLL-OA-TRANS-3111-(6L96.3) ..... 06 p0804 N84-15241 #
BLL-OA-TRANS-3112-(6196.3) 09 p1305 N84-18533
BLL-OA-TRANS-3114-(6196.3) 09 p1306 N84-18534
BLL-OA-TRANS-3117-(6196.3) 09 p1281 N84-18367
BLL-OA-TRANS-3121-(6196.3) ..... 08 p1154 N84-17512 #
BLL-OA-TRANS-3124-(6196.3) 09 p1281 N84-18368
BLL-OA-TRANS-3126-(6196.3) ..... 08 p1232 N84-18053 #
BLL-OA-TRANS-3127-(6196.3) ..... 08 p1129 N84-17340 #
BLL-OA-TRANS-3134-(6196.3) ..... 08 p1128 N84-17337 #
BLL-OA-TRANS-3136-(6196.3) ..... 08 p1128 N84-17338 #
BLL-OA-TRANS-3137-(6196.3) ..... 08 p1129 N84-17339 #
BLL-OA-TRANS-3139-(6196.3) ..... 08 p1149 N84-17476 #
BLL-OA-TRANS-3140-(6196.3) 09 p1281 N84-18366
BLL-OA-TRANS-3149-(6196.3) ..... 08 p1122 N84-17291 #
BLL-OA-TRANS-3160-(6196.3) 09 p1281 N84-18369
BLL-OA-TRANS-3162-(6196.3) ..... 08 p1128 N84-17334 #
BLL-OA-TRANS-3168-(6169.3) ..... 08 p1128 N84-17335 #
BLL-OA-TRANS-3173-(6196.3) 09 p1317 N84-18604
BLL-OA-TRANS-3181-(6196.3) 08 p1154 N84-17514
BLL-OA-TRANS-3182-(6196.3) 09 p1277 N84-18337

BLL-RARDE-TR-1094(7291.7965) ..... 06 p0804 N84-15236 #

BLL-RISLEY-TR-4761-(9091.9F) ..... 01 p0036 N84-10228 #
BLL-RISLEY-TR-4775-(9091.9F) ..... 01 p0036 N84-10227 #
BLL-RISLEY-TR-4777-(9091.9F) ..... 01 p0041 N84-10265 #
BLL-RISLEY-TR-4854-(9091.9F) ..... 08 p1123 N84-17298 #
BLL-RISLEY-TR-4858-(9091.9F) 08 p1123 N84-17299
BLL-RISLEY-TR-4871-(9091.9F) 08 p1106 N84-17188
BLL-RISLEY-TR-4875-(9091.9F) 09 p1324 N84-18650
BLL-RISLEY-TR-4880-(9091.9F) ..... 08 p1129 N84-17341 #
BLL-RISLEY-TR-4905-(9091.9F) 18 p2850 N84-28098
BLL-RISLEY-TR-4907-(9091.9F) 17 p2626 N84-26801
BLL-RISLEY-TR-4940-(9091.9F) 20 p3200 N84-30325
BLL-RISLEY-TR-4941-(9091.9F) 20 p3200 N84-30326

BLL-RISLEY-TRANS-4519-(9091.9) 22 p3550 N84-32475
BLL-RISLEY-TRANS-4556-(9091.9) 22 p3550 N84-32476
BLL-RISLEY-TRANS-4557-(9091.9) 22 p3551 N84-32484
BLL-RISLEY-TRANS-4563-(9091.9) 22 p3545 N84-32443
BLL-RISLEY-TRANS-4568-(9091.9) 22 p3551 N84-32478
BLL-RISLEY-TRANS-4571-(9091.9) 22 p3550 N84-32477
BLL-RISLEY-TRANS-4584-(9091.9) 22 p3606 N84-32848
BLL-RISLEY-TRANS-4585-(9091.9) 22 p3606 N84-32847
BLL-RISLEY-TRANS-4877 ..... 12 p1795 N84-21705 #
BLL-RISLEY-TRANS-4879 ..... 12 p1796 N84-21715 #
BLL-RISLEY-TRANS-4883 ..... 12 p1795 N84-21706 #

BLL-TRANS-IZ.148-(5828.4) ..... 01 p0042 N84-10270 #

BLL-TRANS-T5843/BG-MRS1796-82 ..... 01 p0076 N84-10500 #

BLL-TRANS-1098-(7291.7965) ..... 08 p1123 N84-17300 #
BLL-TRANS-1104-(7291.7965) 19 p2991 N84-28954
BLL-TRANS-1568-(9022.552) ..... 08 p1189 N84-17751 #

BLL-TRANS-1571-(9022.552) ..... 08 p1190 N84-17752 #

BLL-T6144/LRST652/83(9022.048) ..... 01 p0057 N84-10369 #
BLL-T6164/BG/LRS-(9022.048) ..... 01 p0036 N84-10229 #
BLL-T6213/BG/LRS/LRST671/83 ..... 06 p0800 N84-15212 #
BLL-T6234/BG/LRS/LRST677/83 ..... 12 p1795 N84-21707 #
BLL-T6310/BG/WH770/84 ..... 22 p3552 N84-32488
BLL-T6313/BG/WH773/84 ..... 22 p3552 N84-32487

BLL-WH-558-(9091.9F) 20 p3183 N84-30221
BLL-WH-570-(9091.9F) ..... 01 p0138 N84-10903 #
BLL-WH-592-(9091.9F) 21 p3358 N84-31301

BLL-WINDSCALE-TR-959-(9091.F) ..... 06 p0803 N84-15235 #

BLM-DCS-PT-83-003-4420 ..... 10 p1527 N84-20005 #

BLM-YA-PT-83-002-4335 ..... 10 p1538 N84-20078 #

BLM-YA-533 ..... 09 p1337 N84-18734 #
BLM-YA-533-S ..... 09 p1338 N84-18735 #

BLM/TN-359 ..... 10 p1538 N84-20078 #

BM-IC-8860 ..... 22 p3557 N84-32524 #
BM-IC-8924 ..... 01 p0047 N84-10303 #
BM-IC-8928 ..... 06 p0802 N84-15228 #
BM-IC-8964 ..... 20 p3176 N84-30172 #

BM-OFR-45-84 ..... 17 p2639 N84-26886 #
BM-OFR-48-84 ..... 17 p2748 N84-27447 #
BM-OFR-50-84 ..... 17 p2681 N84-27075 #
BM-OFR-60-84 ..... 17 p2640 N84-26887* #
BM-OFR-116-84 ..... 21 p3395 N84-31548 #
BM-OFR-177(1)-83 ..... 08 p1206 N84-17865 #
BM-OFR-177(2)-83 ..... 08 p1206 N84-17866 #
BM-OFR-177(3)-83 ..... 08 p1206 N84-17867 #
BM-OFR-177(4)-83 ..... 08 p1207 N84-17868 #
BM-OFR-179-83 ..... 08 p1207 N84-17869 #
BM-OFR-202-83 ..... 08 p1180 N84-17685 #

BM-RI-8774 ..... 04 p0539 N84-13547 #
BM-RI-8777 ..... 04 p0555 N84-13656 #
BM-RI-8783 ..... 04 p0545 N84-13593 #
BM-RI-8793 ..... 09 p1326 N84-18663 #
BM-RI-8794 ..... 09 p1319 N84-18615 #
BM-RI-8807 ..... 10 p1469 N84-19594 #
BM-RI-8829 ..... 14 p2129 N84-23763 #
BM-RI-8848 ..... 20 p3165 N84-30099 #
BM-RI-8851 ..... 20 p3164 N84-30098 #
BM-RI-8853 ..... 20 p3191 N84-30272 #
BM-RI-8856 ..... 20 p3165 N84-30101 #

BMFT-FB-DV-83-001 ..... 02 p0274 N84-11796 #
BMFT-FB-DV-83-002 ..... 02 p0225 N84-11475 #
BMFT-FB-DV-83-003 ..... 10 p1579 N84-20348 #
BMFT-FB-DV-83-004 ..... 12 p1909 N84-22435 #
BMFT-FB-DV-83-005 ..... 12 p1920 N84-22508 #
BMFT-FB-DV-83-006 ..... 12 p1885 N84-22286 #
BMFT-FB-DV-84-001 ..... 16 p2542 N84-26315 #

BMFT-FB-HA-83-028 ..... 10 p1503 N84-19822 #
BMFT-FB-HA-83-031 ..... 16 p2564 N84-26453 #
BMFT-FB-HA-84-001 ..... 19 p3037 N84-29264 #
BMFT-FB-HA-84-009 ..... 18 p2850 N84-28094 #
BMFT-FB-HA-84-010 ..... 18 p2830 N84-27971 #
BMFT-FB-HA-84-016 ..... 18 p2915 N84-28488 #
BMFT-FB-HA-84-017 ..... 18 p2915 N84-28489 #
BMFT-FB-HA-84-023 ..... 21 p3403 N84-31593 #

BMFT-FB-ID-83-006 ..... 02 p0303 N84-11986 #

BMFT-FB-T-83-2 ..... 15 p2362 N84-25171 #
BMFT-FB-T-83-065 ..... 02 p0197 N84-11282 #
BMFT-FB-T-83-067 ..... 02 p0197 N84-11281 #
BMFT-FB-T-83-071 ..... 02 p0300 N84-11968 #
BMFT-FB-T-83-079 ..... 02 p0210 N84-11375 #
BMFT-FB-T-83-082 ..... 02 p0197 N84-11283 #
BMFT-FB-T-83-083 ..... 02 p0197 N84-11284 #
BMFT-FB-T-83-085 ..... 02 p0288 N84-11889 #
BMFT-FB-T-83-087 ..... 02 p0215 N84-11413 #
BMFT-FB-T-83-088 ..... 02 p0216 N84-11414 #
BMFT-FB-T-83-089 ..... 02 p0206 N84-11347 #
BMFT-FB-T-83-094 ..... 02 p0198 N84-11286 #
BMFT-FB-T-83-097 ..... 02 p0300 N84-11969 #
BMFT-FB-T-83-098 ..... 02 p0300 N84-11970 #
BMFT-FB-T-83-099 ..... 02 p0216 N84-11415 #
BMFT-FB-T-83-100 ..... 02 p0225 N84-11476 #
BMFT-FB-T-83-102 ..... 02 p0266 N84-11752 #
BMFT-FB-T-83-103 ..... 02 p0250 N84-11637 #
BMFT-FB-T-83-104 ..... 02 p0302 N84-11985 #
BMFT-FB-T-83-105 ..... 02 p0197 N84-11285 #
BMFT-FB-T-83-111 ..... 02 p0233 N84-11526 #
BMFT-FB-T-83-111 ..... 19 p2965 N84-28793* #
BMFT-FB-T-83-112 ..... 02 p0243 N84-11590 #
BMFT-FB-T-83-116 ..... 02 p0242 N84-11588 #

BMFT-FB-T-83-117 ..... 02 p0300 N84-11971 #
BMFT-FB-T-83-118 ..... 02 p0211 N84-11377 #
BMFT-FB-T-83-122 ..... 02 p0202 N84-11314 #
BMFT-FB-T-83-123 ..... 02 p0216 N84-11416 #
BMFT-FB-T-83-126 ..... 02 p0300 N84-11972 #
BMFT-FB-T-83-130 ..... 02 p0265 N84-11742 #
BMFT-FB-T-83-131-PT-B ..... 03 p0405 N84-12651 #
BMFT-FB-T-83-132 ..... 02 p0267 N84-11753 #
BMFT-FB-T-83-133 ..... 03 p0456 N84-13001 #
BMFT-FB-T-83-134 ..... 02 p0192 N84-11244 #
BMFT-FB-T-83-135 ..... 03 p0405 N84-12652 #
BMFT-FB-T-83-136 ..... 03 p0362 N84-12354 #
BMFT-FB-T-83-138 ..... 02 p0207 N84-11348 #
BMFT-FB-T-83-139 ..... 02 p0198 N84-11287 #
BMFT-FB-T-83-140 ..... 02 p0192 N84-11245 #
BMFT-FB-T-83-141 ..... 03 p0456 N84-13002 #
BMFT-FB-T-83-142 ..... 02 p0216 N84-11417 #
BMFT-FB-T-83-143 ..... 03 p0384 N84-12505 #
BMFT-FB-T-83-146 ..... 02 p0216 N84-11418 #
BMFT-FB-T-83-150 ..... 02 p0216 N84-11419 #
BMFT-FB-T-83-152 ..... 02 p0250 N84-11638 #
BMFT-FB-T-83-153 ..... 02 p0250 N84-11639 #
BMFT-FB-T-83-154 ..... 05 p0699 N84-14590 #
BMFT-FB-T-83-155 ..... 05 p0661 N84-14342 #
BMFT-FB-T-83-156 ..... 05 p0677 N84-14453 #
BMFT-FB-T-83-157 ..... 05 p0700 N84-14591 #
BMFT-FB-T-83-158 ..... 07 p1027 N84-16660 #
BMFT-FB-T-83-159 ..... 05 p0681 N84-14480 #
BMFT-FB-T-83-161 ..... 05 p0661 N84-14343 #
BMFT-FB-T-83-162 ..... 07 p0968 N84-16275 #
BMFT-FB-T-83-163-PT-1 ..... 07 p0999 N84-16480 #
BMFT-FB-T-83-164-PT-2 ..... 07 p0999 N84-16481 #
BMFT-FB-T-83-165 ..... 07 p1000 N84-16483 #
BMFT-FB-T-83-166 ..... 07 p0980 N84-16349 #
BMFT-FB-T-83-167 ..... 05 p0748 N84-14912 #
BMFT-FB-T-83-169 ..... 07 p1012 N84-16568 #
BMFT-FB-T-83-170-VOL-1 ..... 10 p1487 N84-19724 #
BMFT-FB-T-83-170-VOL-2 ..... 10 p1487 N84-19725 #
BMFT-FB-T-83-171 ..... 07 p1026 N84-16651 #
BMFT-FB-T-83-173 ..... 07 p1026 N84-16652 #
BMFT-FB-T-83-174 ..... 07 p0973 N84-16303 #
BMFT-FB-T-83-175 ..... 07 p0973 N84-16304 #
BMFT-FB-T-83-176 ..... 07 p0980 N84-16350 #
BMFT-FB-T-83-177 ..... 07 p0986 N84-16385 #
BMFT-FB-T-83-178 ..... 08 p1135 N84-17383 #
BMFT-FB-T-83-179 ..... 08 p1126 N84-17321 #
BMFT-FB-T-83-183 ..... 10 p1532 N84-20034 #
BMFT-FB-T-83-184 ..... 10 p1457 N84-19518 #
BMFT-FB-T-83-185 ..... 07 p0995 N84-16450 #
BMFT-FB-T-83-186 ..... 07 p1028 N84-16661 #
BMFT-FB-T-83-189 ..... 07 p0977 N84-16331 #
BMFT-FB-T-83-190 ..... 07 p1023 N84-16638 #
BMFT-FB-T-83-192 ..... 07 p1014 N84-16576 #
BMFT-FB-T-83-193 ..... 07 p1004 N84-16513 #
BMFT-FB-T-83-194 ..... 10 p1590 N84-20419 #
BMFT-FB-T-83-195 ..... 10 p1463 N84-19555 #
BMFT-FB-T-83-196 ..... 07 p0977 N84-16332 #
BMFT-FB-T-83-198 ..... 08 p1105 N84-17183 #
BMFT-FB-T-83-199 ..... 08 p1126 N84-17322 #
BMFT-FB-T-83-201 ..... 08 p1183 N84-17704 #
BMFT-FB-T-83-202 ..... 10 p1495 N84-19778 #
BMFT-FB-T-83-204 ..... 10 p1531 N84-20026 #
BMFT-FB-T-83-205 ..... 10 p1472 N84-19613 #
BMFT-FB-T-83-206 ..... 10 p1499 N84-19801 #
BMFT-FB-T-83-207 ..... 08 p1181 N84-17696 #
BMFT-FB-T-83-208 ..... 08 p1126 N84-17323 #
BMFT-FB-T-83-210 ..... 10 p1489 N84-19733 #
BMFT-FB-T-83-211 ..... 10 p1537 N84-20073 #
BMFT-FB-T-83-212 ..... 10 p1457 N84-19519 #
BMFT-FB-T-83-213 ..... 10 p1463 N84-19558 #
BMFT-FB-T-83-214 ..... 10 p1472 N84-19614 #
BMFT-FB-T-83-215 ..... 10 p1472 N84-19615 #
BMFT-FB-T-83-217 ..... 12 p1794 N84-21701 #
BMFT-FB-T-83-219 ..... 10 p1463 N84-19559 #
BMFT-FB-T-83-220 ..... 10 p1472 N84-19616 #
BMFT-FB-T-83-224 ..... 10 p1457 N84-19520 #
BMFT-FB-T-83-225 ..... 10 p1489 N84-19734 #
BMFT-FB-T-83-227 ..... 10 p1530 N84-20024 #
BMFT-FB-T-83-238 ..... 10 p1531 N84-20025 #
BMFT-FB-T-83-247 ..... 10 p1579 N84-20349 #
BMFT-FB-T-83-248 ..... 10 p1463 N84-19557 #
BMFT-FB-T-83-249 ..... 10 p1483 N84-19697 #
BMFT-FB-T-83-251 ..... 10 p1472 N84-19617 #
BMFT-FB-T-83-261 ..... 10 p1488 N84-19729 #
BMFT-FB-T-83-267 ..... 10 p1488 N84-19730 #
BMFT-FB-T-83-273 ..... 13 p1958 N84-22729 #
BMFT-FB-T-83-277 ..... 10 p1488 N84-19731 #
BMFT-FB-T-83-280 ..... 10 p1488 N84-19732 #
BMFT-FB-T-83-286 ..... 13 p2048 N84-23290 #
BMFT-FB-T-83-289 ..... 12 p1916 N84-22484 #
BMFT-FB-T-83-292 ..... 15 p2286 N84-24718 #
BMFT-FB-T-83-297 ..... 15 p2366 N84-25196 #
BMFT-FB-T-83-298-PT-1 ..... 15 p2362 N84-25172 #
BMFT-FB-T-83-299 ..... 12 p1844 N84-22025 #
BMFT-FB-T-83-300 ..... 15 p2362 N84-25173 #
BMFT-FB-T-83-302 ..... 15 p2301 N84-24811 #

BMFT-FB-T-83-303 ..... 15 p2328 N84-24976 #
BMFT-FB-T-83-305 ..... 15 p2328 N84-24977 #
BMFT-FB-T-83-308 ..... 15 p2362 N84-25174 #
BMFT-FB-T-83-309 ..... 15 p2363 N84-25175 #
BMFT-FB-T-83-310 ..... 15 p2336 N84-25022 #
BMFT-FB-T-83-318 ..... 15 p2295 N84-24775 #
BMFT-FB-T-83-319 ..... 12 p1794 N84-21702 #
BMFT-FB-T-83-322 ..... 15 p2262 N84-24591 #
BMFT-FB-T-84-003 ..... 15 p2299 N84-24801 #
BMFT-FB-T-84-006 ..... 15 p2301 N84-24812 #
BMFT-FB-T-84-007 ..... 15 p2296 N84-24776 #
BMFT-FB-T-84-008 ..... 15 p2412 N84-25482 #
BMFT-FB-T-84-015 ..... 16 p2463 N84-25783 #
BMFT-FB-T-84-017 ..... 16 p2529 N84-26241 #
BMFT-FB-T-84-018 ..... 16 p2518 N84-26166 #
BMFT-FB-T-84-020 ..... 16 p2465 N84-25802 #
BMFT-FB-T-84-022 ..... 16 p2560 N84-26423 #
BMFT-FB-T-84-024 ..... 16 p2476 N84-25876 #
BMFT-FB-T-84-025 ..... 16 p2471 N84-25836 #
BMFT-FB-T-84-030 ..... 16 p2816 N84-27877 #
BMFT-FB-T-84-031 ..... 19 p3000 N84-29015 #
BMFT-FB-T-84-032 ..... 16 p2463 N84-25784 #
BMFT-FB-T-84-033 ..... 16 p2471 N84-25837 #
BMFT-FB-T-84-034 ..... 16 p2466 N84-25803 #
BMFT-FB-T-84-037 ..... 19 p3028 N84-29206 #
BMFT-FB-T-84-040 ..... 16 p2466 N84-25804 #
BMFT-FB-T-84-042 ..... 16 p2519 N84-26167 #
BMFT-FB-T-84-043 ..... 19 p3019 N84-29140 #
BMFT-FB-T-84-044 ..... 19 p3113 N84-29777 #
BMFT-FB-T-84-045 ..... 16 p2466 N84-25805 #
BMFT-FB-T-84-046 ..... 19 p3113 N84-29778 #
BMFT-FB-T-84-048 ..... 19 p3019 N84-29141 #
BMFT-FB-T-84-049 ..... 19 p3113 N84-29779 #
BMFT-FB-T-84-050 ..... 16 p2519 N84-26166 #
BMFT-FB-T-84-052 ..... 19 p3113 N84-29780 #
BMFT-FB-T-84-054 ..... 19 p3025 N84-29187 #
BMFT-FB-T-84-056 ..... 19 p2996 N84-28983 #
BMFT-FB-T-84-060 ..... 19 p3019 N84-29143 #
BMFT-FB-T-84-063 ..... 19 p3051 N84-29364 #
BMFT-FB-T-84-064 ..... 19 p2985 N84-28914 #
BMFT-FB-T-84-065 ..... 19 p2990 N84-28947 #
BMFT-FB-T-84-073 ..... 19 p3019 N84-29144 #
BMFT-FB-T-84-074 ..... 21 p3499 N84-32177 #
BMFT-FB-T-84-075 ..... 19 p3001 N84-29016 #
BMFT-FB-T-84-076 ..... 21 p3368 N84-31370 #
BMFT-FB-T-84-078 ..... 21 p3407 N84-31611 #
BMFT-FB-T-84-079 ..... 19 p3033 N84-29239 #
BMFT-FB-T-84-080 ..... 20 p3237 N84-30549 #
BMFT-FB-T-84-081 ..... 22 p3642 N84-33093 #
BMFT-FB-T-84-082 ..... 20 p3164 N84-30096 #
BMFT-FB-T-84-092 ..... 22 p3658 N84-33189 #
BMFT-FB-T-84-094 ..... 21 p3499 N84-32178 #
BMFT-FB-T-84-096 ..... 21 p3407 N84-31612 #
BMFT-FB-T-84-097 ..... 21 p3407 N84-31613 #
BMFT-FB-T-84-098 ..... 21 p3411 N84-31633 #
BMFT-FB-T-84-099 ..... 21 p3408 N84-31614 #
BMFT-FB-T-84-100 ..... 16 p2557 N84-26401 #
BMFT-FB-T-84-102 ..... 23 p3744 N84-33737 #
BMFT-FB-T-84-106 ..... 23 p3757 N84-33818 #
BMFT-FB-T-84-110 ..... 23 p3752 N84-33787 #
BMFT-FB-T-84-111 ..... 23 p3755 N84-33805 #
BMFT-FB-T-84-112 ..... 23 p3825 N84-34262 #
BMFT-FB-T-84-113 ..... 23 p3793 N84-34058 #
BMFT-FB-T-84-114 ..... 23 p3792 N84-34050 #
BMFT-FB-T-84-115 ..... 23 p3727 N84-33620 #
BMFT-FB-T-84-116 ..... 23 p3727 N84-33621 #
BMFT-FB-T-84-117 ..... 23 p3716 N84-33553 #
BMFT-FB-T-84-119 ..... 23 p3831 N84-34303 #
BMFT-FB-T-84-120 ..... 23 p3831 N84-34304 #
BMFT-FB-T-84-122 ..... 23 p3826 N84-34263 #
BMFT-FB-T-84-124 ..... 23 p3792 N84-34051 #
BMFT-FB-T-84-125 ..... 23 p3802 N84-34110 #
BMFT-FB-T-84-128 ..... 23 p3728 N84-33622 #
BMFT-FB-T-84-129 ..... 23 p3757 N84-33819 #
BMFT-FB-T-84-133 ..... 23 p3755 N84-33806 #
BMFT-FB-T-84-135 ..... 23 p3752 N84-33788 #
BMFT-FB-T-84-140 ..... 23 p3826 N84-34264 #

BMFT-FB-W-72-011 ..... 03 p0386 N84-12515 #
BMFT-FB-W-83-005 ..... 02 p0178 N84-11167 #
BMFT-FB-W-83-006 ..... 05 p0626 N84-14116 #
BMFT-FB-W-83-007 ..... 02 p0179 N84-11169 #
BMFT-FB-W-83-008 ..... 02 p0207 N84-11349 #
BMFT-FB-W-83-009 ..... 03 p0362 N84-12355 #
BMFT-FB-W-83-010 ..... 03 p0342 N84-12219 #
BMFT-FB-W-83-012 ..... 07 p1034 N84-16710 #
BMFT-FB-W-83-013 ..... 07 p0994 N84-16448 #
BMFT-FB-W-83-014 ..... 07 p1008 N84-16540 #
BMFT-FB-W-83-015 ..... 07 p0962 N84-16239 #
BMFT-FB-W-83-016 ..... 08 p1243 N84-18124 #
BMFT-FB-W-83-017 ..... 07 p0985 N84-16254 #
BMFT-FB-W-83-018 ..... 10 p1429 N84-19343 #
BMFT-FB-W-83-019 ..... 07 p0995 N84-16449 #
BMFT-FB-W-83-020 ..... 07 p1075 N84-16690 #
BMFT-FB-W-83-021 ..... 08 p1153 N84-17504 #
BMFT-FB-W-83-022 ..... 10 p1527 N84-20001 #

BMFT-FB-W-83-023 ..... 10 p1488 N84-19727 #
BMFT-FB-W-83-024 ..... 08 p1181 N84-17694 #
BMFT-FB-W-83-025 ..... 10 p1533 N84-20044 #
BMFT-FB-W-83-026 ..... 10 p1495 N84-19776 #
BMFT-FB-W-83-027 ..... 10 p1431 N84-19356 #
BMFT-FB-W-83-028 ..... 10 p1429 N84-19344 #
BMFT-FB-W-83-029 ..... 08 p1181 N84-17695 #
BMFT-FB-W-83-030 ..... 10 p1488 N84-19728 #
BMFT-FB-W-83-031 ..... 10 p1495 N84-19777 #
BMFT-FB-W-83-032 ..... 12 p1909 N84-22436 #
BMFT-FB-W-83-033 ..... 12 p1802 N84-21751 #
BMFT-FB-W-83-034 ..... 12 p1819 N84-21858 #
BMFT-FB-W-83-035-PT-1 ..... 12 p1766 N84-21535 #
BMFT-FB-W-83-036-PT-2 ..... 12 p1769 N84-21536 #
BMFT-FB-W-84-001 ..... 19 p2968 N84-28811 #
BMFT-FB-W-84-002 ..... 19 p3009 N84-29074 #
BMFT-FB-W-84-003 ..... 19 p2962 N84-28772 #
BMFT-FB-W-84-004 ..... 19 p3019 N84-29142 #
BMFT-FB-W-84-005 ..... 19 p2962 N84-28773 #
BMFT-FB-W-84-006 ..... 19 p3025 N84-29185 #
BMFT-FB-W-84-007 ..... 19 p3009 N84-29075 #
BMFT-FB-W-84-008 ..... 19 p2962 N84-28774 #
BMFT-FB-W-84-009 ..... 19 p3032 N84-29235 #
BMFT-FB-W-84-010 ..... 19 p2983 N84-28904 #
BMFT-FB-W-84-011 ..... 19 p2955 N84-28731 #
BMFT-FB-W-84-012 ..... 19 p3033 N84-29236 #
BMFT-FB-W-84-013 ..... 19 p3009 N84-29077 #
BMFT-FB-W-84-014 ..... 19 p3055 N84-29390 #
BMFT-FB-W-84-015 ..... 21 p3328 N84-31116 #
BMFT-FB-W-84-016 ..... 21 p3436 N84-31798 #
BMFT-FB-W-84-017 ..... 21 p3353 N84-31269 #
BMFT-FB-W-84-018 ..... 21 p3343 N84-31208 #
BMFT-FB-W-84-019 ..... 21 p3343 N84-31212 #
BMFT-FB-W-84-020 ..... 21 p3328 N84-31117 #
BMFT-FB-W-84-021 ..... 21 p3445 N84-31859 #
BMFT-FB-W-84-022 ..... 20 p3191 N84-30270 #
BMFT-FB-W-84-023 ..... 21 p3407 N84-31610 #

BMI-1983-022 ..... 16 p2485 N84-25939

BMI/ONWI-492 ..... 20 p3228 N84-30516 #
BMI/ONWI-513 ..... 09 p1346 N84-18794 #
BMI/ONWI-515 ..... 09 p1337 N84-18732 #
BMI/ONWI-518 ..... 12 p1837 N84-21973 #

BMPR-3 ..... 24 p3858 N84-34457* #
BMPR-8 ..... 19 p3001 N84-29018* #

BMR-BULL-181 ..... 23 p3797 N84-34076 #
BMR-BULL-188 ..... 23 p3797 N84-34077 #
BMR-BULL-216 ..... 23 p3797 N84-34078 #

BMR-7 ..... 02 p0190 N84-11231* #
BMR-83 ..... 19 p3037 N84-29266 #

BMVG-FBWT-83-1 ..... 08 p1213 N84-17915 #

BN-1006 ..... 09 p1378 N84-19000 #
BN-1013 ..... 10 p1573 N84-20309 #
BN-1016 ..... 18 p2925 N84-28551 #
BN-1017 ..... 18 p2925 N84-28552 #
BN-1018 ..... 19 p3023 N84-29171 #
BN-1020 ..... 18 p2925 N84-28550 #
BN-1021 ..... 19 p3088 N84-29604 #
BN-1023 ..... 19 p3090 N84-29616 #

BNL-NCS-51684 ..... 16 p2566 N84-26465 #

BNL-NUREG-33352 ..... 03 p0438 N84-12874 #
BNL-NUREG-33657 ..... 07 p0975 N84-16316 #
BNL-NUREG-33731 ..... 14 p2128 N84-23759 #
BNL-NUREG-33841 ..... 07 p0976 N84-16323 #
BNL-NUREG-34270 ..... 20 p3155 N84-30033 #
BNL-NUREG-34545 ..... 22 p3612 N84-32884 #

BNL-TR-1000 ..... 03 p0350 N84-12275 #
BNL-TR-1028 ..... 22 p3653 N84-33154 #
BNL-TR-1031 ..... 22 p3646 N84-33121 #

BNL-32245 ..... 02 p0214 N84-11400 #
BNL-32343 ..... 06 p0910 N84-15907
BNL-32344 ..... 06 p0910 N84-15908
BNL-32768 ..... 05 p0671 N84-14409 #
BNL-32775 ..... 03 p0446 N84-12934 #
BNL-32777 ..... 03 p0367 N84-12386 #
BNL-32854 ..... 01 p0142 N84-10935 #
BNL-32934 ..... 01 p0053 N84-10344 #
BNL-32936 ..... 01 p0050 N84-10325 #
BNL-32940 ..... 02 p0244 N84-11599 #
BNL-32964 ..... 01 p0053 N84-10343 #
BNL-32994 ..... 02 p0289 N84-11896 #
BNL-33016 ..... 06 p0910 N84-15906
BNL-33081 ..... 01 p0045 N84-10291 #
BNL-33103 ..... 01 p0112 N84-10727 #
BNL-33117 ..... 03 p0454 N84-12987 #
BNL-33129 ..... 01 p0090 N84-10590 #

BNL-33138	01	p0114	N84-10741	#
BNL-33143	03	p0416	N84-12720	#
BNL-33159	01	p0098	N84-10639	#
BNL-33221	01	p0144	N84-10947	#
BNL-33326	03	p0441	N84-12896	#
BNL-33376	03	p0454	N84-12989	#
BNL-33379	03	p0438	N84-12872	#
BNL-33420	03	p0390	N84-12541	#
BNL-33439	04	p0615	N84-14058	#
BNL-33440	02	p0191	N84-11243	#
BNL-33441	03	p0347	N84-12256	#
BNL-33476	02	p0228	N84-11493	#
BNL-33487	04	p0603	N84-13962	#
BNL-33493	03	p0390	N84-12545	#
BNL-33523	07	p1082	N84-17038	#
BNL-33553	04	p0571	N84-13760	#
BNL-33591	03	p0431	N84-12826	#
BNL-33592	04	p0515	N84-13363	#
BNL-33593	04	p0515	N84-13365	#
BNL-33600	06	p0925	N84-16011	#
BNL-33601	04	p0529	N84-13477	#
BNL-33604	04	p0503	N84-13298	#
BNL-33605	04	p0503	N84-13299	#
BNL-33607	04	p0600	N84-13963	#
BNL-33609	04	p0614	N84-14050	#
BNL-33640	03	p0436	N84-12862	#
BNL-33651	03	p0368	N84-12399	#
BNL-33652	03	p0421	N84-12754	#
BNL-33659	04	p0528	N84-13476	#
BNL-33666	04	p0503	N84-13300	#
BNL-33685	06	p0916	N84-15953	#
BNL-33692	04	p0614	N84-14056	#
BNL-33698	04	p0601	N84-13969	#
BNL-33703	04	p0538	N84-13539	#
BNL-33724	05	p0685	N84-14505	#
BNL-33733	05	p0701	N84-14597	#
BNL-33736	05	p0720	N84-14719	#
BNL-33741	19	p3103	N84-29713	#
BNL-33743	05	p0685	N84-14502	#
BNL-33749	21	p3496	N84-32157	#
BNL-33765	15	p2402	N84-25420	#
BNL-33793	04	p0602	N84-13974	#
BNL-33813	07	p1010	N84-16553	#
BNL-33824	08	p1229	N84-18034	#
BNL-33830	15	p2299	N84-24797	#
BNL-33848	11	p1757	N84-21472	#
BNL-33849	07	p0974	N84-16315	#
BNL-33864	08	p1230	N84-18037	#
BNL-33872	07	p1008	N84-16538	#
BNL-33874	09	p1390	N84-19079	#
BNL-33895	07	p0971	N84-16294	#
BNL-33961	10	p1461	N84-19545	#
BNL-33966	10	p1501	N84-19808	#
BNL-33994	18	p2844	N84-28063	#
BNL-34014	10	p1499	N84-19796	#
BNL-34029	11	p1668	N84-21007	#
BNL-34069	10	p1501	N84-19811	#
BNL-34081	20	p3149	N84-29995	#
BNL-34122	14	p2243	N84-24470	#
BNL-34186	12	p1903	N84-22395	#
BNL-34204	21	p3374	N84-31411	#
BNL-34222	15	p2414	N84-25494	#
BNL-34233	21	p3374	N84-31410	#
BNL-34235	14	p2223	N84-24340	#
BNL-34239	15	p2405	N84-25437	#
BNL-34251	15	p2299	N84-24799	#
BNL-34340	15	p2340	N84-25045	#
BNL-34342	20	p3155	N84-30031	#
BNL-34390	20	p3179	N84-30192	#
BNL-34391	21	p3374	N84-31409	#
BNL-34397	15	p2364	N84-25187	#
BNL-34477	20	p3296	N84-30928	#
BNL-34479	20	p3179	N84-30196	#
BNL-34493	21	p3392	N84-31524	#
BNL-34506	18	p2928	N84-28566	#
BNL-34552	20	p3290	N84-30889	#
BNL-34565-REV-1	21	p3436	N84-31803	#
BNL-34569	20	p3293	N84-30905	#
BNL-34582	20	p3294	N84-30915	#
BNL-34594	20	p3164	N84-30093	#
BNL-34595	20	p3155	N84-30032	#
BNL-34604	20	p3310	N84-31020	#
BNL-34636	20	p3179	N84-30191	#
BNL-34641	20	p3295	N84-30923	#
BNL-34642	21	p3507	N84-32217	#
BNL-34653	21	p3451	N84-31898	#
BNL-34689	22	p3547	N84-32456	#
BNL-34706	21	p3494	N84-32145	#
BNL-34707	22	p3595	N84-32764	#
BNL-34728	21	p3496	N84-32159	#
BNL-34778	21	p3368	N84-31367	#
BNL-34779	22	p3665	N84-33236	#
BNL-34780	22	p3667	N84-33246	#
BNL-34839	22	p3547	N84-32457	#
BNL-34846	22	p3654	N84-33162	#
BNL-51625	02	p0244	N84-11596	#
BNL-51652	02	p0204	N84-11328	#
BNL-51666	02	p0244	N84-11601	#
BNL-51695	04	p0530	N84-13484	#
BNL-51705	14	p2124	N84-23728	#
BNL-51709	18	p2891	N84-28349	#
BNL-51715	18	p2812	N84-27849	#
BNL-51719	14	p2142	N84-23847	#
BNL-51727	13	p1990	N84-22920	#
BNL-51728-VOL-1	11	p1738	N84-21342	#
BNL-51728-VOL-2	11	p1742	N84-21368	#
BNL-51747	20	p3167	N84-30112	#
BONN-MITT-65	02	p0233	N84-11528	#
BPA-83-12	21	p3448	N84-31878	#
BPA-83-12-APP	21	p3448	N84-31876	#
BR-ROS-ME-MA00/06	08	p1109	N84-17209	
BR-89448	04	p0547	N84-13602	#
BR-90008	05	p0644	N84-14238	#
BRDC-2392	21	p3413	N84-31642	#
BRMC-80-5103	18	p2943	N84-28663	#
BRMC-82-C-5121	19	p3114	N84-29788	#
BRMC-82-5095-4	17	p2770	N84-27588	#
BRMC-82-5114-1/2	17	p2770	N84-27590	#
BRMC-82-5114-3	18	p2943	N84-28662	#
BRMC-83-5075	17	p2753	N84-27473	#
BRMC-83-5080-1	17	p2598	N84-26651	#
BR26152	15	p2389	N84-25333	
BR58353	18	p2836	N84-27998	
BR85803	03	p0351	N84-12283	#
BR85848	15	p2319	N84-24917	#
BR88457	03	p0355	N84-12310	
BR88616	15	p2318	N84-24915	
BR88700	03	p0319	N84-12089	
BR88788	09	p1361	N84-18892	
BR88807	03	p0385	N84-12506	
BR88809	23	p3717	N84-33562	#
BR88862	03	p0430	N84-12818	
BR89099	17	p2667	N84-27007	#
BR89100-PT-1	15	p2299	N84-24802	#
BR89101-PT-2	15	p2296	N84-24780	#
BR89151	03	p0418	N84-12729	
BR89152	03	p0420	N84-12741	
BR89248	03	p0366	N84-12379	
BR89250	03	p0366	N84-12378	
BR89306	09	p1298	N84-18484	
BR89447	06	p0846	N84-15517	#
BR89448	06	p0851	N84-15549	#
BR89480	04	p0505	N84-13312	#
BR89751	12	p1789	N84-21664	
BR89770	04	p0515	N84-13381	#
BR89786	09	p1317	N84-18605	
BR89832	09	p1328	N84-18673	
BR89834	09	p1361	N84-18893	
BR89868	09	p1372	N84-18957	
BR89879	17	p2746	N84-27433	#
BR89939	09	p1286	N84-18397	
BR90072	18	p2814	N84-27864	#
BR90147	15	p2403	N84-25421	
BR90380	15	p2379	N84-25276	
BR90394	15	p2346	N84-25076	
BR90407	15	p2407	N84-25448	
BR90433	12	p1805	N84-21766	
BR90580	15	p2389	N84-25332	
BR90735-PT-1	15	p2318	N84-24916	
BR90743	15	p2295	N84-24770	
BR90770	15	p2300	N84-24803	
BR90772	15	p2396	N84-25373	
BR90881	16	p2483	N84-25923	
BR91262	16	p2485	N84-25935	#
BR91266	19	p3109	N84-29757	#
BR91287	18	p2828	N84-27957	#
BR91288	16	p2482	N84-25777	#
BR92720	22	p3600	N84-32804	#
BR92722	22	p3630	N84-33004	#
BTO-G-83-8-001	17	p2655	N84-26981	#
BTO-G-83-9-001	17	p2655	N84-26979	#
BTS07-84-05/RB	15	p2279	N84-24691*	#
BTS07-84-08/RB	18	p2878	N84-28275*	#
BU-BUMINES-OFR-203-83	09	p1286	N84-18396	#
BU-1-84	12	p1895	N84-22341	#
BU-282	15	p2255	N84-24542	#
BU-283	15	p2255	N84-24543	#
BU-284	15	p2332	N84-25005	#
BU-285	15	p2255	N84-24544	#
BU-286	15	p2255	N84-24545	#
BU-287	15	p2256	N84-24546	#

BU-288 ..... 15 p2260 N84-24573 #
BU-289 ..... 15 p2256 N84-24547 #
BU-291 ..... 15 p2256 N84-24548 #
BU-292 ..... 15 p2264 N84-24594 #
BU-293 ..... 15 p2256 N84-24549 #
BU-294 ..... 15 p2306 N84-24832 #
BU-295 ..... 15 p2350 N84-25104 #
BU-296 ..... 16 p2454 N84-25734 #
BU-297 ..... 15 p2260 N84-24574 #
BU-299 ..... 15 p2256 N84-24550 #
BU-300 ..... 15 p2256 N84-24551 #
BU-301 ..... 15 p2350 N84-25105 #

BULL-15 ..... 18 p2880 N84-28289 #
BULL-189 ..... 08 p1243 N84-18125 #
BULL-191 ..... 08 p1243 N84-18126 #

BUSM-83-14 ..... 16 p2536 N84-26278 #

B6212184 ..... 21 p3520 N84-32302 #
B6342320 ..... 21 p3475 N84-32025 #
B6342321 ..... 21 p3467 N84-31980 #
B6342322 ..... 21 p3475 N84-32028 #
B6402121 ..... 21 p3474 N84-32018 #
B6434506 ..... 21 p3474 N84-32019 #
B6464514 ..... 20 p3159 N84-30060 #
B6464515 ..... 20 p3188 N84-30254 #
B6464516 ..... 20 p3265 N84-30718 #
B6464517 ..... 20 p3204 N84-30352 #
B6464518 ..... 20 p3238 N84-30558 #
B6465124 ..... 17 p2754 N84-27485 #
B6465125 ..... 17 p2750 N84-27455 #
B6465126 ..... 17 p2772 N84-27601 #
B6465127 ..... 17 p2754 N84-27484 #
B6466605 ..... 19 p3105 N84-29731 #
B6467321 ..... 20 p3299 N84-30949 #
B6467322 ..... 19 p3094 N84-29650 #
B6467323 ..... 19 p3094 N84-29651 #
B6467324 ..... 21 p3476 N84-32029 #
B6467325 ..... 19 p3095 N84-29658 #
B6467327 ..... 21 p3476 N84-32031 #
B6467328 ..... 19 p3092 N84-29639 #
B6467329 ..... 19 p3091 N84-29631 #
B6467330 ..... 19 p3092 N84-29633 #
B6467331 ..... 19 p3092 N84-29634 #
B6467332 ..... 19 p3092 N84-29635 #
B6467333 ..... 19 p3092 N84-29636 #
B6467334 ..... 19 p3094 N84-29652 #
B6467335 ..... 19 p3091 N84-29632 #
B6467336 ..... 19 p3092 N84-29637 #
B6467337 ..... 19 p3081 N84-29550 #
B6467338 ..... 19 p3092 N84-29638 #
B6467339 ..... 19 p3095 N84-29659 #
B6469009 ..... 21 p3432 N84-31777 #
B6469329 ..... 20 p3275 N84-30792 #
B6469547 ..... 21 p3437 N84-31805 #

C.44.593 ..... 16 p2471 N84-25833 #
C.45.505 ..... 16 p2465 N84-25797 #

C-11 ..... 03 p0443 N84-12908 #
C-480 ..... 10 p1529 N84-20018 #
C-757 ..... 19 p3111 N84-29765 #
C-6782-M-12 ..... 11 p1693 N84-21041 #
C-30221-E1 ..... 22 p3600 N84-32804 #

C/R/469/83 ..... 07 p1060 N84-16871 #
C/R/477/84 ..... 15 p2332 N84-25002* #
C/R/479/84 ..... 17 p2601 N84-26669* #

CA-8311 ..... 06 p0798 N84-15198 #
CA-8313 ..... 06 p0801 N84-15219 #
CA-8316 ..... 06 p0800 N84-15218 #
CA-8325 ..... 16 p2448 N84-25700 #
CA-8416 ..... 16 p2438 N84-25643 #

CAA-SR-84-12 ..... 19 p2955 N84-28730 #

CAD-SS-84-1 ..... 20 p3204 N84-30356 #

CADD-8301-3001 ..... 01 p0120 N84-10781 #

CAES-700-84 ..... 17 p2628 N84-26813* #

CAHIERS-TECHNIQUES-120 ..... 15 p2322 N84-24942 #
CAHIERS-TECHNIQUES-121 ..... 10 p1488 N84-19726 #
CAHIERS-TECHNIQUES-123 ..... 15 p2330 N84-24993 #
CAHIERS-TECHNIQUES-124 ..... 15 p2330 N84-24994 #
CAHIERS-TECHNIQUES-125 ..... 15 p2331 N84-24995 #
CAHIERS-TECHNIQUES-126 ..... 15 p2331 N84-24996 #

CALSPAN-6430-A-5 ..... 17 p2601 N84-26670 #
CALSPAN-6645-F-12 ..... 17 p2611 N84-26711 #
CALSPAN-6645-F-12-APP-A-E ..... 17 p2611 N84-26712 #
CALSPAN-6866-M-1 ..... 09 p1348 N84-18808 #
CALSPAN-8968-A-2 ..... 04 p0545 N84-13591 #

CALSPAN-7028-M-1 ..... 10 p1539 N84-20084 #
CALSPAN-7076-M-1 ..... 15 p2371 N84-25227 #
CALSPAN-7096-M-1 ..... 14 p2179 N84-24051 #
CALSPAN-7176-A-1 ..... 20 p3148 N84-29991 #
CALSPAN-7177-A-1 ..... 10 p1571 N84-20295 #

CAM-83-2 ..... 11 p1648 N84-20774 #

CAR-TR-1 ..... 06 p0895 N84-15812 #
CAR-TR-28 ..... 15 p2336 N84-25025 #
CAR-TR-30 ..... 15 p2398 N84-25386 #
CAR-TR-31 ..... 15 p2400 N84-25404 #
CAR-TR-32 ..... 15 p2396 N84-25385 #
CAR-TR-33 ..... 15 p2407 N84-25452 #
CAR-TR-36 ..... 15 p2397 N84-25384 #
CAR-TR-40 ..... 14 p2205 N84-24234 #
CAR-TR-53 ..... 22 p3646 N84-33118 #
CAR-TR-54 ..... 19 p3042 N84-29302 #
CAR-TR-57 ..... 22 p3640 N84-33079 #
CAR-TR-63 ..... 22 p3643 N84-33098 #

CAR-83-1 ..... 06 p0847 N84-15522* #
CAR-83-2 ..... 06 p0847 N84-15521* #
CAR-8401 ..... 16 p2475 N84-25864 #
CAR-8406 ..... 21 p3358 N84-31302 #
CAR-8412 ..... 21 p3398 N84-31555 #
CAR-8418 ..... 21 p3398 N84-31556 #
CAR-8425 ..... 21 p3398 N84-31557 #

CARE-83-3 ..... 06 p0891 N84-15790 #

CATALYTIC-43790 ..... 21 p3434 N84-31784* #

CCMS-84-01 ..... 18 p2809 N84-27830* #
CCMS-84-02 ..... 12 p1825 N84-21900* #
CCMS-84-03 ..... 16 p2460 N84-25767* #
CCMS-84-04 ..... 16 p2460 N84-25768* #
CCMS-84-08 ..... 16 p2460 N84-25769* #
CCMS-84-10 ..... 19 p2986 N84-28919* #
CCMS-84-11 ..... 24 p3878 N84-34572 #

CCRS-5089-3(917) ..... 02 p0238 N84-11560* #

CCS-RR-449 ..... 12 p1893 N84-22330 #
CCS-RR-467 ..... 24 p3953 N84-35035 #
CCS-RR-473 ..... 19 p3083 N84-29566 #
CCS-RR-477 ..... 19 p3083 N84-29567 #
CCS-RR-478 ..... 19 p3075 N84-29513 #
CCS-RR-486 ..... 24 p3951 N84-35015 #

CCS-459 ..... 19 p3088 N84-29601 #

CCTC-CSM-UM-246-82-CHG-7 ..... 13 p2028 N84-23151 #

CDDF:80-5 ..... 13 p1989 N84-22912* #

CE-63(83)AFOSR-993-1 ..... 09 p1330 N84-18687 #
CE-64(83)AFOSR-993-1 ..... 10 p1572 N84-20298 #
CE-83-37 ..... 05 p0711 N84-14657 #

CEA-CONF-6688 ..... 24 p3885 N84-34614 #
CEA-CONF-6689 ..... 24 p3885 N84-34613 #
CEA-CONF-7036 ..... 24 p3909 N84-34761 #

CEA-R-5061 ..... 04 p0536 N84-13525 #

CECOM-TR-84-3 ..... 24 p3894 N84-34661 #

CECOM-80-0520-1 ..... 10 p1486 N84-19714 #
CECOM-80-0579-F ..... 02 p0209 N84-11365 #
CECOM-80-0579-3 ..... 03 p0361 N84-12352 #
CECOM-81-C-0077-F ..... 06 p0824 N84-15370 #
CECOM-81-0136-4 ..... 01 p0062 N84-10408 #
CECOM-82-C-J030-1 ..... 02 p0294 N84-11929 #
CECOM-82-C-J071-2 ..... 05 p0747 N84-14907 #
CECOM-82-C-J231 ..... 01 p0071 N84-10463 #

CECOM/DRSEL-TR-78-2922F-1 ..... 03 p0440 N84-12892 #
CECOM/DRSEL-TR-78-2922F-2 ..... 03 p0440 N84-12891 #

CECOM/DRSEL-83-3 ..... 07 p0993 N84-16439 #

CEER-M-162 ..... 12 p1863 N84-22140 #

CEER-S-160 ..... 20 p3237 N84-30552 #

CEER-X-165 ..... 12 p1845 N84-22026 #

CELSS-24 ..... 02 p0269 N84-11760* #

CERC-MP-84-3 ..... 17 p2724 N84-27339 #

CERC-83-1 ..... 06 p0883 N84-15744 #
CERC-83-3 ..... 08 p1195 N84-17791 #

CERL-FR-83-5-ONR ..... 15 p2383 N84-25290 #

CERL-TM-M-344	18	p2818	N84-27893	#
CERL-TR-E-191	13	p2009	N84-23029	#
CERL-TR-E-192	19	p3051	N84-29359	#
CERL-TR-E-193	24	p3942	N84-34959	#
CERL-TR-E-196	24	p3896	N84-34686	#
CERL-TR-M-327	01	p0057	N84-10372	#
CERL-TR-M-331	01	p0050	N84-10323	#
CERL-TR-M-332	05	p0663	N84-14357	#
CERL-TR-M-333	06	p0810	N84-15273	#
CERL-TR-M-337	17	p2623	N84-26788	#
CERL-TR-M-339	13	p1974	N84-22810	#
CERL-TR-M-345	18	p2818	N84-27895	#
CERL-TR-M-351	24	p3857	N84-34453	#
CERL-TR-M-354	24	p3896	N84-34670	#
CERL-TR-N-162	13	p2029	N84-23156	#
CERL-TR-N-163	06	p0935	N84-16078	#
CERL-TR-N-166	11	p1729	N84-21279	#
CERL-TR-N-167	19	p3052	N84-29369	#
CERL-TR-N-169	13	p2067	N84-23404	#
CERL-TR-N-170	12	p1919	N84-22500	#
CERL-TR-P-155	11	p1704	N84-21108	#
CERL-TR-P-158-VOL-1	21	p3465	N84-31971	#
CERL-TR-P-158-VOL-2	21	p3466	N84-31972	#
CERRO-PRIETO-24	02	p0250	N84-11633	#
CERT-2/6035-DERO	03	p0382	N84-12490	#
CERT-5/6026-DERO	03	p0443	N84-12907	#
CERT-5/6047-DERO	06	p0848	N84-15529	#
CERT-9/6026-DERO	03	p0402	N84-12629	#
CER83-84GA-DEN-RNM3	14	p2177	N84-24043	#
CES/RD-84-01	16	p2511	N84-26116	#
CESR-83-1089	23	p3784	N84-34001	#
CETIM-I.S.13.826	21	p3362	N84-31331	#
CETIM-1.3K.27.3	21	p3376	N84-31423	#
CETIM-1.3K.32.1	21	p3416	N84-31663	#
CETIM-1.3K.36.2	21	p3376	N84-31424	#
CETIM-1.3K.36.2	21	p3467	N84-31963	#
CETIM-1.3N.16.2	21	p3372	N84-31398	#
CETIM-1.3T.042	21	p3470	N84-31991	#
CETIM-1.5C.23.1	21	p3424	N84-31723	#
CETIM-1-4N-090	21	p3376	N84-31422	#
CETIM-5.41.22.0	21	p3407	N84-31609	#
CETIM-5.510.05	21	p3424	N84-31724	#
CETIM-5.580.50	21	p3376	N84-31425	#
CETIM-11-A-102	21	p3424	N84-31716	#
CETIM-11-B-071	21	p3424	N84-31717	#
CETIM-11-B-110	21	p3424	N84-31718	#
CETIM-11-E-360	21	p3424	N84-31719	#
CETIM-11-H-50-9	21	p3467	N84-31981	#
CETIM-11-H-275	21	p3414	N84-31650	#
CETIM-12-D-081	21	p3415	N84-31659	#
CETIM-12-F-380	21	p3368	N84-31371	#
CETIM-12-F-390	21	p3369	N84-31372	#
CETIM-12-F-400	21	p3369	N84-31373	#
CETIM-12-G-284	21	p3369	N84-31374	#
CETIM-12-Y-413	21	p3414	N84-31651	#
CETIM-12-Y-431	21	p3369	N84-31375	#
CETIM-12-Y-442	21	p3414	N84-31652	#
CETIM-13-V-010	21	p3416	N84-31660	#
CETIM-13-Y-322	21	p3414	N84-31653	#
CETIM-14-C-011	21	p3403	N84-31588	#
CETIM-15-H-404	21	p3416	N84-31661	#
CETIM-15-H-417	21	p3416	N84-31662	#
CETIM-41-H-337	21	p3345	N84-31224	#
CETIM-100-14-0	21	p3372	N84-31397	#
CETIM-100-020	21	p3415	N84-31654	#
CETIM-100250	21	p3403	N84-31589	#
CETIM-100680	21	p3497	N84-32162	#
CETIM-100730	21	p3424	N84-31720	#
CETIM-100940	21	p3424	N84-31721	#
CETIM-100960	21	p3424	N84-31722	#
CETIM-100980	21	p3467	N84-31982	#
CETS-CND-026	21	p3451	N84-31901	#
CETS/CND-027	20	p3243	N84-30590	#
CFD-83/8	18	p2838	N84-28014	#
CFD/83/1	18	p2837	N84-28011	#
CFD/83/2	07	p1005	N84-16515	#
CFD/83/3	03	p0374	N84-12435	#
CFD/83/4	18	p2836	N84-28012	#
CFD/83/5	03	p0374	N84-12436	#
CFD/83/6	18	p2838	N84-28013	#
CFD/83/7	20	p3188	N84-30255	#
CFD/83/10	15	p2332	N84-25006	#
CFD/84/1	20	p3188	N84-30256	#
CFD/84/4	19	p2960	N84-28759	#
CFDL-TR-83-2	17	p2599	N84-26661*	#
CFDL-TR-83-5	08	p1156	N84-17526*	#
CFDL-TR-83-7	08	p1238	N84-18090*	#
CGR/DC-3/83	06	p0784	N84-15138	#
CGR/DC-4/83	07	p1041	N84-16748	#
CGR/DC-4/84	19	p2959	N84-28753	#
CGR/DC-26/82	07	p1041	N84-16749	#
CH-329/84	18	p2931	N84-28588	#
CHAM-H3605/15-VOL-1	22	p3543	N84-32428*	#
CHAM-H3605/16-VOL-2	22	p3543	N84-32429*	#
CHIP-116	01	p0117	N84-10757	#
CISE-1795	08	p1227	N84-18016*	#
CISE-2067	06	p0899	N84-15837	#
CISE-2069	05	p0701	N84-14598	#
CISE-2070	05	p0701	N84-14599	#
CISE-2071	05	p0701	N84-14600	#
CISE-2072	06	p0855	N84-15571	#
CISE-2073	05	p0690	N84-14533	#
CISE-2074	05	p0690	N84-14534	#
CISE-2075	06	p0855	N84-15572	#
CISE-2109	07	p1004	N84-16514	#
CISE-2111	16	p2481	N84-25912	#
CISE-2117	16	p2555	N84-26392	#
CISE-2118	07	p1073	N84-16974	#
CISE-2149	16	p2487	N84-25950	#
CISE-2156	16	p2465	N84-25796	#
CISE-2211	20	p3275	N84-30790	#
CISR-M010-8212-12	07	p1084	N84-17052	#
CISR-TR-12	07	p1084	N84-17052	#
CIT-CONTRIB-4015	16	p2521	N84-26182*	#
CIT-CONTRIB-4073	16	p2495	N84-26011*	#
CM-61	07	p1028	N84-16662	#
CM-64	15	p2367	N84-25199	#
CM-65	18	p2891	N84-28350	#
CM-66	17	p2728	N84-27366	#
CMC/82TR-2.2-VOL-2	23	p3746	N84-33749*	#
CMR-DARPA-7	09	p1284	N84-18385	#
CMR-DARPA-8	14	p2128	N84-23757	#
CMR-P-84-3	23	p3786	N84-34011*	#
CMR-83-11	09	p1394	N84-19102	#
CMU-AFOSR-AL-7	24	p3884	N84-34606	#
CMU-CS-78-146	19	p3072	N84-29493	#
CMU-CS-83-110	02	p0268	N84-11756	#
CMU-CS-83-128	03	p0418	N84-12732*	#
CMU-CS-83-135-PT-1	02	p0278	N84-11824	#
CMU-CS-83-164	14	p2204	N84-24229	#
CMU-CS-84-123	20	p3273	N84-30777	#
CMU-CS-84-135-REV	24	p3951	N84-35019	#
CMU-RI-TR-82-16	06	p0854	N84-15566	#
CMU-RI-TR-83-2	08	p1167	N84-17595	#
CMU-RI-TR-83-3	07	p1051	N84-16808	#
CMU-RI-TR-83-4	06	p0901	N84-15849	#
CMU-RI-TR-83-6	06	p0893	N84-15804	#
CMU-RI-TR-83-7	06	p0896	N84-15814	#
CMU-RI-TR-83-8	06	p0933	N84-16063	#
CMU-RI-TR-83-11	06	p0894	N84-15805	#
CMU-RI-TR-83-12	06	p0899	N84-15838	#
CMU-RI-TR-83-13	06	p0894	N84-15806	#
CMU-RI-TR-83-14	06	p0894	N84-15807	#
CMU-RI-TR-83-15	08	p1205	N84-17861	#
CMU-RI-TR-83-16	08	p1167	N84-17596	#
CMU-RI-TR-83-17	08	p1216	N84-17934	#
CMU-RI-TR-83-18	10	p1568	N84-20269	#
CMU-RI-TR-83-20	09	p1363	N84-18905	#
CMU-RI-TR-83-21	10	p1591	N84-20424	#
CMU-RI-TR-83-23	10	p1574	N84-20316	#
CMU-RI-TR-83-24	10	p1563	N84-20238	#
CMU-RI-TR-84-1	13	p2024	N84-23123	#
CMU-RI-TR-84-2	13	p2025	N84-23125	#
CMU-RI-TR-84-4	17	p2748	N84-27445	#
CMU-RI-TR-84-5	19	p3032	N84-29229	#
CMU-RI-TR-84-6	19	p3031	N84-29227	#
CMU-RI-TR-84-7	19	p3080	N84-29547	#
CMU-RI-TR-84-8	19	p3068	N84-29460	#
CMU-RI-TR-84-10	19	p3031	N84-29228	#
CMU-RI-TR-84-11	23	p3816	N84-34196	#

CMU-RI-TR-84-12 ..... 20 p3170 N84-30129 #

CN-46464 ..... 21 p3358 N84-31298 #

CO-ONR-009 ..... 10 p1551 N84-20164 #
CO-ONR-010 ..... 14 p2186 N84-24098 #

COA-8409 ..... 19 p2957 N84-28744 #

COFA-8330 ..... 10 p1432 N84-19361 #

COLL-AERON.-8329 ..... 11 p1600 N84-20483 #

COMCO-83-TR-2.1 ..... 07 p1002 N84-16495* #

CONF-011560 ..... 21 p3371 N84-31388 #
CONF-406104-2 ..... 20 p3191 N84-30269 #
CONF-806114-1 ..... 20 p3300 N84-30958 #
CONF-810927-1-REV-2 ..... 01 p0080 N84-10520 #
CONF-820134-1 ..... 06 p0872 N84-15677 #
CONF-820205-8 ..... 01 p0047 N84-10300 #
CONF-820233-SUMM ..... 04 p0603 N84-13981 #
CONF-820263-1 ..... 01 p0156 N84-11028 #
CONF-820306-12 ..... 02 p0224 N84-11471 #
CONF-820335-1 ..... 01 p0038 N84-10238 #
CONF-820409-6 ..... 10 p1545 N84-20131 #
CONF-820475 ..... 08 p1230 N84-18039 #
CONF-820508-12 ..... 01 p0037 N84-10237 #
CONF-820530-2 ..... 15 p2393 N84-25360 #
CONF-820545-23 ..... 01 p0046 N84-10296 #
CONF-820709-4 ..... 02 p0228 N84-11493 #
CONF-820792-SUMM ..... 02 p0244 N84-11601 #
CONF-820794-1 ..... 02 p0256 N84-11688 #
CONF-820839-9 ..... 03 p0441 N84-12897 #
CONF-820841-2 ..... 07 p1010 N84-16551 #
CONF-820888-2 ..... 04 p0568 N84-13743 #
CONF-820896-7 ..... 01 p0144 N84-10950 #
CONF-820897 ..... 03 p0438 N84-12878 #
CONF-820898-3 ..... 03 p0353 N84-12295 #
CONF-820906-38 ..... 08 p1180 N84-17688 #
CONF-820906-40 ..... 04 p0559 N84-13684 #
CONF-820935-11 ..... 04 p0614 N84-14054 #
CONF-820948-13 ..... 04 p0522 N84-13434 #
CONF-820980-8 ..... 08 p1229 N84-18032 #
CONF-820986-SUMM ..... 01 p0101 N84-10659 #
CONF-820987-4 ..... 01 p0144 N84-10944 #
CONF-821011-50 ..... 01 p0119 N84-10773 #
CONF-821043-1 ..... 01 p0080 N84-10521 #
CONF-821049-25 ..... 06 p0807 N84-15257 #
CONF-821054-2 ..... 06 p0882 N84-15739 #
CONF-821055 ..... 12 p1822 N84-21877* #
CONF-821080-2 ..... 02 p0194 N84-11262 #
CONF-821089-14 ..... 04 p0540 N84-13556 #
CONF-821103-92 ..... 02 p0292 N84-11915 #
CONF-821107-57 ..... 02 p0188 N84-11225 #
CONF-821108-29 ..... 02 p0299 N84-11962 #
CONF-821108-30 ..... 03 p0429 N84-12815 #
CONF-821108-31 ..... 02 p0214 N84-11400 #
CONF-821123-33 ..... 06 p0910 N84-15907
CONF-821123-36 ..... 06 p0910 N84-15908
CONF-821145-5 ..... 01 p0081 N84-10524 #
CONF-821148-4 ..... 10 p1577 N84-20335 #
CONF-821159-6 ..... 17 p2777 N84-27632* #
CONF-821170-3 ..... 02 p0225 N84-11477 #
CONF-821185-2 ..... 03 p0350 N84-12273 #
CONF-821191 ..... 03 p0382 N84-12488 #
CONF-821194-1 ..... 03 p0380 N84-12472 #
CONF-821199 ..... 05 p0704 N84-14618 #
CONF-821211-SUPPL ..... 01 p0075 N84-10493 #
CONF-830104-6 ..... 05 p0660 N84-14338 #
CONF-830108-6 ..... 01 p0053 N84-10341 #
CONF-830109-1 ..... 03 p0435 N84-12853 #
CONF-830109-3 ..... 03 p0380 N84-12477 #
CONF-830116-3 ..... 01 p0134 N84-10879 #
CONF-830117-4 ..... 01 p0142 N84-10935 #
CONF-830124 ..... 12 p1844 N84-22022 #
CONF-830135-3 ..... 03 p0463 N84-13047 #
CONF-830141-2 ..... 01 p0096 N84-10628 #
CONF-830141-4 ..... 03 p0431 N84-12823 #
CONF-830141-5 ..... 20 p3186 N84-30244 #
CONF-830142-1 ..... 01 p0081 N84-10525 #
CONF-830144-1 ..... 01 p0045 N84-10291 #
CONF-830149-1 ..... 04 p0536 N84-13523 #
CONF-830149-2 ..... 04 p0534 N84-13512 #
CONF-830165 ..... 22 p3619 N84-32929 #
CONF-830210-20 ..... 03 p0450 N84-12959 #
CONF-830211-161 ..... 01 p0073 N84-10480 #
CONF-830215-3 ..... 02 p0201 N84-11308 #
CONF-830222 ..... 05 p0699 N84-14589 #
CONF-830224 ..... 06 p0910 N84-15911 #
CONF-830231-4 ..... 04 p0602 N84-13976 #
CONF-830235-1 ..... 01 p0155 N84-11023* #
CONF-830311-PT-2 ..... 20 p3294 N84-30914 #
CONF-830311-143 ..... 03 p0433 N84-12840 #
CONF-830311-144 ..... 01 p0143 N84-10942 #
CONF-830311-145 ..... 02 p0290 N84-11903 #
CONF-830311-146 ..... 01 p0143 N84-10943 #
CONF-830311-147 ..... 01 p0143 N84-10939 #
CONF-830311-148 ..... 03 p0367 N84-12386 #
CONF-830311-152 ..... 02 p0290 N84-11902 #
CONF-830311-153 ..... 03 p0434 N84-12842 #
CONF-830311-157 ..... 01 p0143 N84-10938 #
CONF-830311-158 ..... 01 p0068 N84-10443 #
CONF-830311-159 ..... 02 p0290 N84-11904 #
CONF-830311-160 ..... 02 p0210 N84-11373 #
CONF-830311-162 ..... 01 p0142 N84-10934 #
CONF-830311-165 ..... 01 p0143 N84-10940 #
CONF-830311-168 ..... 02 p0299 N84-11961 #
CONF-830311-185 ..... 02 p0227 N84-11489 #
CONF-830311-187 ..... 03 p0446 N84-12934 #
CONF-830311-188 ..... 04 p0526 N84-13475 #
CONF-830311-190 ..... 05 p0671 N84-14409 #
CONF-830311-191 ..... 07 p1072 N84-16965 #
CONF-830311-192 ..... 07 p1072 N84-16966 #
CONF-830311-193 ..... 08 p1230 N84-18036 #
CONF-830314-6 ..... 05 p0686 N84-14512 #
CONF-830314-7 ..... 21 p3387 N84-31496 #
CONF-830317-3 ..... 03 p0355 N84-12309 #
CONF-830339-5 ..... 04 p0601 N84-13965 #
CONF-830340-3 ..... 02 p0292 N84-11913 #
CONF-830354-1 ..... 21 p3501 N84-32187 #
CONF-830368-1 ..... 06 p0910 N84-15906
CONF-830368-3 ..... 06 p0926 N84-16018 #
CONF-830370-SUMM ..... 01 p0074 N84-10486 #
CONF-830378-1 ..... 03 p0426 N84-12790 #
CONF-830382-1 ..... 02 p0301 N84-11975 #
CONF-830384-1 ..... 03 p0439 N84-12885 #
CONF-830384-2 ..... 03 p0350 N84-12274 #
CONF-830385-1 ..... 03 p0390 N84-12543 #
CONF-830388-2 ..... 03 p0351 N84-12282 #
CONF-830390-2 ..... 08 p1229 N84-18033 #
CONF-830405-5 ..... 06 p0833 N84-15423
CONF-830405-8 ..... 06 p0872 N84-15676 #
CONF-830405-12 ..... 06 p0872 N84-15678 #
CONF-830406-12 ..... 04 p0598 N84-13948 #
CONF-830406-56 ..... 01 p0082 N84-10530 #
CONF-830406-63 ..... 03 p0445 N84-12923 #
CONF-830406-67 ..... 02 p0194 N84-11263 #
CONF-830406-94 ..... 03 p0440 N84-12886 #
CONF-830406-108 ..... 04 p0608 N84-14014 #
CONF-830406-109 ..... 03 p0448 N84-12949 #
CONF-830406-111 ..... 06 p0918 N84-15968 #
CONF-830413-1 ..... 01 p0082 N84-10532 #
CONF-830420-5 ..... 03 p0362 N84-12353 #
CONF-830425-3 ..... 12 p1908 N84-22431 #
CONF-830425-17 ..... 01 p0142 N84-10936 #
CONF-830425-18 ..... 02 p0295 N84-11932 #
CONF-830425-19 ..... 01 p0087 N84-10569 #
CONF-830425-23 ..... 01 p0151 N84-10991 #
CONF-830425-26 ..... 01 p0088 N84-10576 #
CONF-830425-29 ..... 02 p0223 N84-11466 #
CONF-830425-30 ..... 02 p0226 N84-11484 #
CONF-830425-33 ..... 02 p0227 N84-11490 #
CONF-830425-34 ..... 02 p0227 N84-11487 #
CONF-830425-35 ..... 01 p0082 N84-10536 #
CONF-830425-37 ..... 15 p2339 N84-25042 #
CONF-830430-2 ..... 03 p0358 N84-12326 #
CONF-830430-3 ..... 10 p1452 N84-19487 #
CONF-830432-3 ..... 01 p0140 N84-10921 #
CONF-830442-2 ..... 01 p0057 N84-10373 #
CONF-830445-5 ..... 15 p2298 N84-24795 #
CONF-830451-24 ..... 06 p0811 N84-15279 #
CONF-830455-6 ..... 03 p0453 N84-12979 #
CONF-830455-8 ..... 03 p0438 N84-12872 #
CONF-830455-9 ..... 04 p0602 N84-13974 #
CONF-830456-2 ..... 08 p1236 N84-18077 #
CONF-830456-3 ..... 06 p0924 N84-16009 #
CONF-830456-3-REV ..... 08 p1162 N84-17566 #
CONF-830466-REV-1 ..... 01 p0045 N84-10288 #
CONF-830468 ..... 03 p0455 N84-12994 #
CONF-830469-9 ..... 01 p0144 N84-10947 #
CONF-830474 ..... 12 p1783 N84-21631 #
CONF-830475-2 ..... 03 p0385 N84-12510 #
CONF-830477 ..... 02 p0242 N84-11587 #
CONF-830485-1 ..... 06 p0855 N84-15570 #
CONF-830488-1 ..... 12 p1895 N84-22343 #
CONF-830491-3 ..... 21 p3395 N84-31543 #
CONF-830492-1 ..... 03 p0420 N84-12748 #
CONF-830494-1 ..... 02 p0291 N84-11905 #
CONF-830503-3 ..... 03 p0383 N84-12497 #
CONF-830508-4-REV ..... 05 p0755 N84-14953 #
CONF-830508-18 ..... 01 p0153 N84-11009 #
CONF-830508-23 ..... 03 p0354 N84-12302 #
CONF-830508-25 ..... 02 p0215 N84-11408 #
CONF-830508-28 ..... 11 p1634 N84-20683 #
CONF-830510-2 ..... 12 p1827 N84-21908 #
CONF-830518-5 ..... 02 p0269 N84-11763 #
CONF-830518-6 ..... 01 p0082 N84-10531 #
CONF-830518-7 ..... 02 p0274 N84-11789 #
CONF-830528-SUMM ..... 03 p0439 N84-12861 #
CONF-830528-38 ..... 01 p0090 N84-10586 #
CONF-830528-50 ..... 03 p0356 N84-12318 #

CONF-830531-3 ..... 01 p0124 N84-10809 #
CONF-830535-3 ..... 03 p0458 N84-13014 #
CONF-830538-7 ..... 01 p0137 N84-10900 #
CONF-830538-17 ..... 03 p0439 N84-12884 #
CONF-830547-2 ..... 02 p0270 N84-11768 #
CONF-830549-2 ..... 04 p0495 N84-13248 #
CONF-830558-1 ..... 04 p0536 N84-13521 #
CONF-830561-3 ..... 03 p0401 N84-12624 #
CONF-830562-2 ..... 01 p0092 N84-10601 #
CONF-830565-1 ..... 01 p0124 N84-10805 #
CONF-830567-3 ..... 02 p0205 N84-11333 #
CONF-830567-6 ..... 11 p1675 N84-20931 #
CONF-830569-2 ..... 03 p0380 N84-12476 #
CONF-830570-4 ..... 01 p0154 N84-11010 #
CONF-830571-1 ..... 02 p0250 N84-11635 #
CONF-830571-2 ..... 02 p0250 N84-11634 #
CONF-830573-2 ..... 01 p0154 N84-11012 #
CONF-830573-4 ..... 01 p0032 N84-10202 #
CONF-830573-8 ..... 04 p0614 N84-14052 #
CONF-830573-11 ..... 20 p3157 N84-30052 #
CONF-830576-2 ..... 02 p0270 N84-11769 #
CONF-830576-4 ..... 02 p0271 N84-11770 #
CONF-830577-2 ..... 01 p0162 N84-11064 #
CONF-830577-4 ..... 04 p0581 N84-13838 #
CONF-830578-1 ..... 01 p0053 N84-10344 #
CONF-830578-3 ..... 01 p0053 N84-10343 #
CONF-830580-2 ..... 03 p0438 N84-12873 #
CONF-830581-1 ..... 01 p0081 N84-10526 #
CONF-830582-2 ..... 01 p0068 N84-10445 #
CONF-830582-4 ..... 03 p0426 N84-12789 #
CONF-830584-1 ..... 02 p0227 N84-11485 #
CONF-830588-4 ..... 04 p0600 N84-13959 #
CONF-830590-1 ..... 01 p0150 N84-10986 #
CONF-830590-2 ..... 03 p0450 N84-12958 #
CONF-830591-1 ..... 03 p0439 N84-12880 #
CONF-830597-1 ..... 01 p0145 N84-10956 #
CONF-830606-10 ..... 03 p0445 N84-12921 #
CONF-830606-11 ..... 01 p0073 N84-10481 #
CONF-830606-12 ..... 03 p0366 N84-12384 #
CONF-830607-30 ..... 07 p1017 N84-16595 #
CONF-830609-64 ..... 12 p1868 N84-22176 #
CONF-830616-2 ..... 02 p0289 N84-11897 #
CONF-830620-2 ..... 01 p0124 N84-10806 #
CONF-830621-2 ..... 01 p0073 N84-10475 #
CONF-830621-4 ..... 01 p0073 N84-10477 #
CONF-830621-10 ..... 03 p0433 N84-12841 #
CONF-830621-11 ..... 01 p0068 N84-10573 #
CONF-830621-13 ..... 02 p0290 N84-11900 #
CONF-830621-14 ..... 02 p0290 N84-11901 #
CONF-830621-18 ..... 01 p0072 N84-10474 #
CONF-830621-19 ..... 01 p0071 N84-10465 #
CONF-830621-21 ..... 01 p0087 N84-10571 #
CONF-830621-23 ..... 03 p0366 N84-12385 #
CONF-830621-24 ..... 01 p0074 N84-10485 #
CONF-830621-25 ..... 02 p0290 N84-11898 #
CONF-830621-26 ..... 01 p0087 N84-10570 #
CONF-830621-29 ..... 02 p0214 N84-11399 #
CONF-830621-32 ..... 02 p0295 N84-11933 #
CONF-830621-33 ..... 03 p0367 N84-12388 #
CONF-830621-39 ..... 01 p0075 N84-10490 #
CONF-830621-42 ..... 04 p0542 N84-13569 #
CONF-830621-43 ..... 04 p0528 N84-13471 #
CONF-830621-44 ..... 04 p0610 N84-14028 #
CONF-830621-45 ..... 06 p1152 N84-17501 #
CONF-830621-46 ..... 07 p1010 N84-16555 #
CONF-830621-47 ..... 07 p0998 N84-16472 #
CONF-830622-7 ..... 01 p0085 N84-10550 #
CONF-830622-11 ..... 02 p0229 N84-11504 #
CONF-830622-16 ..... 01 p0005 N84-10033 #
CONF-830622-21 ..... 06 p0880 N84-15728
CONF-830622-27 ..... 06 p0909 N84-15905 #
CONF-830631-6 ..... 03 p0389 N84-12537 #
CONF-830634 ..... 02 p0296 N84-11943 #
CONF-830637-1 ..... 01 p0148 N84-10971 #
CONF-830637-2 ..... 02 p0214 N84-11403 #
CONF-830637-5 ..... 02 p0200 N84-11304 #
CONF-830639-1 ..... 11 p1659 N84-20825 #
CONF-830639-2 ..... 12 p1819 N84-21856 #
CONF-830639-4 ..... 11 p1657 N84-20811 #
CONF-830640-6 ..... 03 p0373 N84-12427 #
CONF-830642-1 ..... 03 p0372 N84-12425 #
CONF-830642-2 ..... 01 p0081 N84-10528 #
CONF-830642-4 ..... 01 p0088 N84-10575 #
CONF-830642-5 ..... 07 p1003 N84-16506 #
CONF-830652-1 ..... 01 p0085 N84-10553 #
CONF-830659-2 ..... 02 p0195 N84-11264 #
CONF-830659-6 ..... 01 p0098 N84-10636 #
CONF-830659-11 ..... 02 p0195 N84-11270 #
CONF-830659-12 ..... 03 p0354 N84-12300 #
CONF-830659-13 ..... 07 p0976 N84-16322 #
CONF-830659-14 ..... 07 p0976 N84-16328 #
CONF-830659-16 ..... 08 p1133 N84-17372 #
CONF-830659-17 ..... 07 p0976 N84-16329 #
CONF-830659-19 ..... 07 p0976 N84-16324 #
CONF-830662-2 ..... 09 p1343 N84-18769 #
CONF-830663-1 ..... 02 p0219 N84-11435 #
CONF-830665-3 ..... 02 p0266 N84-11748 #
CONF-830666-3 ..... 02 p0227 N84-11486 #
CONF-830668-1 ..... 01 p0051 N84-10329 #
CONF-830673-1 ..... 02 p0224 N84-11467 #
CONF-830674-4 ..... 03 p0436 N84-12861 #
CONF-830674-5 ..... 05 p0745 N84-14895 #
CONF-830675-6 ..... 04 p0601 N84-13964 #
CONF-830676-1 ..... 01 p0051 N84-10328 #
CONF-830679-1 ..... 01 p0098 N84-10637 #
CONF-830680-2 ..... 03 p0389 N84-12540 #
CONF-830682-2 ..... 03 p0427 N84-12802 #
CONF-830683-1 ..... 01 p0151 N84-10994 #
CONF-830685-2 ..... 20 p3267 N84-30732 #
CONF-830689-1 ..... 03 p0434 N84-12845 #
CONF-830689-2 ..... 03 p0435 N84-12854 #
CONF-830689-5 ..... 04 p0601 N84-13968 #
CONF-830689-7 ..... 04 p0488 N84-13203 #
CONF-830689-8 ..... 05 p0745 N84-14894 #
CONF-830690-1 ..... 02 p0293 N84-11918 #
CONF-830692-1 ..... 01 p0103 N84-10671 #
CONF-830693-1 ..... 03 p0380 N84-12474 #
CONF-830693-2 ..... 03 p0381 N84-12481 #
CONF-830694-1 ..... 03 p0456 N84-13003 #
CONF-830695-3 ..... 02 p0266 N84-11749 #
CONF-830695-4 ..... 02 p0266 N84-11750 #
CONF-830697-4 ..... 15 p2302 N84-24817 #
CONF-830702-4 ..... 01 p0085 N84-10549 #
CONF-830702-7-REV-2 ..... 04 p0560 N84-13689 #
CONF-830702-21 ..... 02 p0297 N84-11945 #
CONF-830702-22 ..... 02 p0220 N84-11444 #
CONF-830704-2 ..... 01 p0148 N84-10972 #
CONF-830704-7 ..... 04 p0536 N84-13528 #
CONF-830704-9 ..... 04 p0613 N84-14047 #
CONF-830704-9-REV-1 ..... 15 p2304 N84-24827 #
CONF-830706-1 ..... 06 p0916 N84-15956 #
CONF-830706-4 ..... 02 p0296 N84-11942 #
CONF-830706-7 ..... 04 p0594 N84-13917
CONF-830706-8 ..... 08 p1229 N84-18035 #
CONF-830707-6 ..... 06 p0875 N84-15693 #
CONF-830708-3 ..... 05 p0756 N84-14959 #
CONF-830708-5 ..... 07 p1083 N84-17041 #
CONF-830708-6 ..... 06 p0924 N84-16005 #
CONF-830709-8 ..... 02 p0223 N84-11465 #
CONF-830709-26 ..... 02 p0292 N84-11917 #
CONF-830709-28 ..... 02 p0224 N84-11468 #
CONF-830710-6 ..... 02 p0266 N84-11751 #
CONF-830710-10 ..... 04 p0572 N84-13765 #
CONF-830711-5 ..... 04 p0507 N84-13325 #
CONF-830711-6 ..... 03 p0357 N84-12321 #
CONF-830711-7 ..... 08 p1123 N84-17297 #
CONF-830714-12 ..... 03 p0454 N84-12986 #
CONF-830714-13 ..... 02 p0271 N84-11771 #
CONF-830718-1 ..... 03 p0441 N84-12896 #
CONF-830718-6 ..... 03 p0439 N84-12879 #
CONF-830718-8 ..... 04 p0528 N84-13476 #
CONF-830719-1 ..... 02 p0190 N84-11236 #
CONF-830719-12 ..... 01 p0154 N84-11016 #
CONF-830719-13 ..... 05 p0662 N84-14349 #
CONF-830719-14 ..... 02 p0220 N84-11442 #
CONF-830719-15 ..... 02 p0232 N84-11522 #
CONF-830719-16 ..... 03 p0457 N84-13006 #
CONF-830719-17 ..... 02 p0195 N84-11268 #
CONF-830719-18 ..... 05 p0756 N84-14960 #
CONF-830719-20 ..... 02 p0220 N84-11446 #
CONF-830719-21 ..... 02 p0220 N84-11441 #
CONF-830719-23 ..... 03 p0430 N84-12816 #
CONF-830719-26 ..... 03 p0453 N84-12983 #
CONF-830719-30 ..... 02 p0220 N84-11443 #
CONF-830719-33 ..... 02 p0196 N84-11274 #
CONF-830719-34 ..... 02 p0219 N84-11437 #
CONF-830719-35 ..... 05 p0755 N84-14955 #
CONF-830719-36 ..... 02 p0232 N84-11524 #
CONF-830719-37 ..... 02 p0196 N84-11275 #
CONF-830719-38 ..... 02 p0196 N84-11278 #
CONF-830719-40 ..... 02 p0224 N84-11470 #
CONF-830719-42 ..... 02 p0196 N84-11277 #
CONF-830719-43 ..... 04 p0541 N84-13563 #
CONF-830719-44 ..... 04 p0542 N84-13566 #
CONF-830719-44-REV-1 ..... 03 p0380 N84-12478 #
CONF-830719-49 ..... 03 p0382 N84-12486 #
CONF-830719-51 ..... 03 p0351 N84-12280 #
CONF-830719-52 ..... 05 p0755 N84-14954 #
CONF-830719-56 ..... 07 p0972 N84-16295 #
CONF-830719-58 ..... 08 p1133 N84-17369* #
CONF-830719-60 ..... 20 p3158 N84-30056 #
CONF-830738-1 ..... 02 p0292 N84-11916 #
CONF-830755-2 ..... 21 p3358 N84-31296 #
CONF-830756-1 ..... 06 p0925 N84-16013 #
CONF-830756-6 ..... 03 p0433 N84-12839 #
CONF-830758 ..... 09 p1392 N84-19091 #
CONF-830758-1 ..... 03 p0438 N84-12875 #
CONF-830759-4 ..... 22 p3605 N84-32837 #
CONF-830760-1 ..... 02 p0190 N84-11235 #
CONF-830763 ..... 02 p0299 N84-11965 #
CONF-830763-1 ..... 02 p0219 N84-11433 #
CONF-830763-3 ..... 01 p0155 N84-11021 #

CONF-830763-5 ..... 05 p0756 N84-14958 #
CONF-830763-6 ..... 01 p0046 N84-10299 #
CONF-830763-7 ..... 04 p0615 N84-14057 #
CONF-830763-8 ..... 03 p0367 N84-12391 #
CONF-830763-9 ..... 08 p1125 N84-17316 #
CONF-830763-13 ..... 06 p0925 N84-16012 #
CONF-830763-14 ..... 05 p0652 N84-14284 #
CONF-830763-15 ..... 03 p0347 N84-12252 #
CONF-830768-1 ..... 02 p0191 N84-11238 #
CONF-830768-2 ..... 04 p0501 N84-13287 #
CONF-830770-1 ..... 01 p0146 N84-10958 #
CONF-830770-2 ..... 03 p0440 N84-12887 #
CONF-830772-2 ..... 03 p0435 N84-12851 #
CONF-830772-4 ..... 03 p0453 N84-12982 #
CONF-830772-6 ..... 04 p0621 N84-14097 #
CONF-830775-1 ..... 04 p0581 N84-13836 #
CONF-830776-1-PT-2 ..... 03 p0453 N84-12984 #
CONF-830776-2 ..... 03 p0454 N84-12990 #
CONF-830779-1 ..... 03 p0454 N84-12989 #
CONF-830779-2 ..... 07 p1082 N84-17040 #
CONF-830780-3 ..... 07 p1081 N84-17033 #
CONF-830780-4 ..... 19 p3103 N84-29712 #
CONF-830782-2 ..... 06 p0886 N84-15762 #
CONF-830783-1 ..... 02 p0304 N84-11995 #
CONF-830784-1 ..... 02 p0201 N84-11311 #
CONF-830786-1 ..... 02 p0297 N84-11946 #
CONF-830787-1 ..... 02 p0202 N84-11313 #
CONF-830787-2 ..... 03 p0455 N84-12998 #
CONF-830789-1 ..... 04 p0594 N84-13919 #
CONF-830789-2 ..... 12 p1916 N84-22486 #
CONF-830792-1 ..... 03 p0420 N84-12749 #
CONF-830795-3 ..... 03 p0355 N84-12306 #
CONF-830795-4 ..... 08 p1134 N84-17373 #
CONF-830796-1 ..... 03 p0390 N84-12545 #
CONF-830797-1 ..... 04 p0620 N84-14092 #
CONF-830797-2 ..... 06 p0941 N84-16114 #
CONF-830797-3 ..... 04 p0622 N84-14104 #
CONF-830797-4 ..... 04 p0622 N84-14105 #
CONF-830797-5 ..... 05 p0766 N84-15022 #
CONF-830797-6 ..... 04 p0622 N84-14106 #
CONF-830798-1 ..... 03 p0436 N84-12860 #
CONF-830798-4 ..... 04 p0496 N84-13253 #
CONF-830798-6 ..... 08 p1230 N84-18037 #
CONF-830803-1 ..... 03 p0372 N84-12426 #
CONF-830803-3 ..... 02 p0282 N84-11849 #
CONF-830803-4 ..... 03 p0372 N84-12424 #
CONF-830803-5 ..... 01 p0081 N84-10529 #
CONF-830803-9 ..... 02 p0218 N84-11430 #
CONF-830805-6 ..... 03 p0353 N84-12293 #
CONF-830805-9 ..... 03 p0389 N84-12538 #
CONF-830805-31 ..... 01 p0097 N84-10632 #
CONF-830805-38 ..... 01 p0091 N84-10591 #
CONF-830805-47 ..... 02 p0232 N84-11525 #
CONF-830805-60 ..... 06 p0804 N84-15240 #
CONF-830805-61 ..... 07 p1034 N84-16709 #
CONF-830807-7 ..... 02 p0203 N84-11325 #
CONF-830808-13 ..... 06 p0927 N84-16019 #
CONF-830809-1 ..... 01 p0074 N84-10487 #
CONF-830810-1 ..... 02 p0291 N84-11906 #
CONF-830810-2 ..... 03 p0368 N84-12393 #
CONF-830811-ABSTS ..... 07 p1014 N84-16575 #
CONF-830811-1 ..... 01 p0097 N84-10633 #
CONF-830811-2 ..... 03 p0431 N84-12827 #
CONF-830811-3 ..... 04 p0549 N84-13620 #
CONF-830811-5 ..... 03 p0385 N84-12512 #
CONF-830811-7 ..... 04 p0546 N84-13599 #
CONF-830811-8 ..... 04 p0595 N84-13928 #
CONF-830811-9 ..... 03 p0333 N84-12167 #
CONF-830811-10 ..... 03 p0431 N84-12825 #
CONF-830811-11 ..... 04 p0546 N84-13598 #
CONF-830811-12 ..... 03 p0355 N84-12307 #
CONF-830811-13 ..... 04 p0596 N84-13930 #
CONF-830811-14 ..... 03 p0431 N84-12824 #
CONF-830811-15 ..... 04 p0550 N84-13621 #
CONF-830811-16 ..... 04 p0546 N84-13597 #
CONF-830811-17 ..... 04 p0547 N84-13601 #
CONF-830811-18 ..... 08 p1237 N84-18084 #
CONF-830812-1 ..... 01 p0150 N84-10986 #
CONF-830812-4 ..... 03 p0437 N84-12870 #
CONF-830812-13 ..... 01 p0072 N84-10473 #
CONF-830812-18 ..... 01 p0145 N84-10955 #
CONF-830812-19 ..... 01 p0145 N84-10952 #
CONF-830812-20 ..... 01 p0145 N84-10953 #
CONF-830812-21 ..... 01 p0145 N84-10954 #
CONF-830812-27 ..... 12 p1843 N84-22015 #
CONF-830812-28 ..... 02 p0218 N84-11431 #
CONF-830812-34 ..... 03 p0367 N84-12389 #
CONF-830812-35 ..... 01 p0074 N84-10488 #
CONF-830812-40 ..... 01 p0091 N84-10596 #
CONF-830812-43 ..... 04 p0537 N84-13529 #
CONF-830812-45 ..... 03 p0405 N84-12649 #
CONF-830812-47 ..... 04 p0537 N84-13533 #
CONF-830812-48 ..... 04 p0536 N84-13526 #
CONF-830812-49 ..... 03 p0384 N84-12500 #
CONF-830812-51 ..... 03 p0384 N84-12504 #
CONF-830812-52 ..... 03 p0384 N84-12501 #
CONF-830812-53 ..... 04 p0545 N84-13590 #
CONF-830812-55 ..... 04 p0537 N84-13531 #
CONF-830812-59 ..... 06 p0853 N84-15560 #
CONF-830814-1 ..... 02 p0201 N84-11306 #
CONF-830814-2 ..... 02 p0188 N84-11223 #
CONF-830815-9 ..... 03 p0389 N84-12539 #
CONF-830819 ..... 04 p0538 N84-13540 #
CONF-830819-3 ..... 01 p0065 N84-10554 #
CONF-830820-1 ..... 01 p0046 N84-10294 #
CONF-830820-2 ..... 03 p0355 N84-12308 #
CONF-830821-1 ..... 02 p0289 N84-11896 #
CONF-830822-1 ..... 02 p0291 N84-11908 #
CONF-830822-5 ..... 03 p0439 N84-12882 #
CONF-830822-6 ..... 03 p0440 N84-12888 #
CONF-830822-13 ..... 04 p0529 N84-13478 #
CONF-830822-14 ..... 04 p0603 N84-13963 #
CONF-830822-15 ..... 03 p0456 N84-12999 #
CONF-830822-16 ..... 03 p0382 N84-12489 #
CONF-830822-20 ..... 04 p0603 N84-13962 #
CONF-830822-23 ..... 04 p0600 N84-13961 #
CONF-830822-24 ..... 04 p0600 N84-13963 #
CONF-830822-25 ..... 04 p0614 N84-14050 #
CONF-830822-26 ..... 04 p0600 N84-13962 #
CONF-830822-33 ..... 05 p0750 N84-14925 #
CONF-830822-36 ..... 04 p0601 N84-13969 #
CONF-830822-42 ..... 07 p1073 N84-16973 #
CONF-830822-44 ..... 07 p0999 N84-16477 #
CONF-830822-49 ..... 11 p1716 N84-21196 #
CONF-830822-50 ..... 11 p1738 N84-21336 #
CONF-830822-51 ..... 21 p3496 N84-32157 #
CONF-830830-2 ..... 03 p0476 N84-13133 #
CONF-830830-3 ..... 02 p0309 N84-12025 #
CONF-830830-4 ..... 03 p0476 N84-13132 #
CONF-830831-3 ..... 10 p1572 N84-20299 #
CONF-830832-1 ..... 01 p0097 N84-10631 #
CONF-830832-2 ..... 02 p0232 N84-11520 #
CONF-830833-2 ..... 04 p0598 N84-13943 #
CONF-830839-2 ..... 06 p0875 N84-15691 #
CONF-830841-2 ..... 02 p0206 N84-11343 #
CONF-830841-3 ..... 03 p0454 N84-12988 #
CONF-830841-4 ..... 03 p0455 N84-12995 #
CONF-830841-7 ..... 04 p0515 N84-13386 #
CONF-830841-10 ..... 04 p0529 N84-13479 #
CONF-830841-11 ..... 03 p0368 N84-12397 #
CONF-830841-12 ..... 04 p0515 N84-13385 #
CONF-830841-13 ..... 03 p0368 N84-12394 #
CONF-830841-16 ..... 03 p0431 N84-12826 #
CONF-830841-18 ..... 04 p0515 N84-13383 #
CONF-830841-19 ..... 04 p0535 N84-13520 #
CONF-830841-20 ..... 04 p0515 N84-13384 #
CONF-830841-21 ..... 04 p0613 N84-14049 #
CONF-830841-23 ..... 04 p0529 N84-13477 #
CONF-830841-24 ..... 06 p0925 N84-16011 #
CONF-830841-27 ..... 06 p0916 N84-15955 #
CONF-830841-28 ..... 10 p1462 N84-19546 #
CONF-830841-30 ..... 12 p1902 N84-22389 #
CONF-830841-31 ..... 20 p3154 N84-30027 #
CONF-830841-32 ..... 15 p2414 N84-25492 #
CONF-830841-34 ..... 18 p2815 N84-27869 #
CONF-830841-35 ..... 21 p3505 N84-32212 #
CONF-830841-37 ..... 23 p3719 N84-33576 #
CONF-830845-3 ..... 04 p0502 N84-13289 #
CONF-830845-4 ..... 04 p0503 N84-13300 #
CONF-830845-5 ..... 06 p0807 N84-15258 #
CONF-830845-7 ..... 07 p0975 N84-16316 #
CONF-830847-1 ..... 04 p0585 N84-13864 #
CONF-830847-3 ..... 04 p0617 N84-14073 #
CONF-830847-6 ..... 08 p1178 N84-17678 #
CONF-830847-7 ..... 08 p1167 N84-17597 #
CONF-830852-2 ..... 08 p1160 N84-17551 #
CONF-830859-3 ..... 02 p0242 N84-11586 #
CONF-830859-4 ..... 01 p0075 N84-10492 #
CONF-830859-10 ..... 08 p1221 N84-17975 #
CONF-830862-1 ..... 02 p0291 N84-11907 #
CONF-830862-2 ..... 03 p0435 N84-12850 #
CONF-830862-3 ..... 03 p0435 N84-12849 #
CONF-830870-2 ..... 11 p1671 N84-20907 #
CONF-830871-2 ..... 02 p0195 N84-11267 #
CONF-830871-4 ..... 04 p0501 N84-13288 #
CONF-830871-5 ..... 04 p0504 N84-13306 #
CONF-830871-6 ..... 03 p0354 N84-12304 #
CONF-830871-8 ..... 03 p0354 N84-12303 #
CONF-830872-2 ..... 04 p0571 N84-13762 #
CONF-830872-3 ..... 04 p0571 N84-13763 #
CONF-830873-2 ..... 07 p1055 N84-16833 #
CONF-830873-3 ..... 15 p2399 N84-25396 #
CONF-830874-2 ..... 01 p0148 N84-10974 #
CONF-830874-3 ..... 02 p0204 N84-11330 #
CONF-830874-5 ..... 01 p0088 N84-10577 #
CONF-830874-8 ..... 03 p0446 N84-12933 #
CONF-830874-9 ..... 02 p0224 N84-11469 #
CONF-830874-10 ..... 02 p0215 N84-11410 #
CONF-830874-11 ..... 02 p0224 N84-11472 #
CONF-830874-12 ..... 02 p0225 N84-11473 #
CONF-830874-15 ..... 02 p0228 N84-11494 #
CONF-830874-16 ..... 03 p0404 N84-12641 #

CONF-830874-17 ..... 03 p0442 N84-12901 #
CONF-830874-20 ..... 03 p0442 N84-12904 #
CONF-830874-21 ..... 03 p0442 N84-12905 #
CONF-830874-22 ..... 06 p0893 N84-15799 #
CONF-830874-23 ..... 04 p0605 N84-13993 #
CONF-830874-25 ..... 03 p0442 N84-12903 #
CONF-830874-26 ..... 04 p0540 N84-13554 #
CONF-830874-29 ..... 04 p0542 N84-13572 #
CONF-830874-30 ..... 08 p1162 N84-17565 #
CONF-830874-31 ..... 07 p1011 N84-16556 #
CONF-830874-32 ..... 10 p1456 N84-19512 #
CONF-830887-1 ..... 01 p0155 N84-11019 #
CONF-830888-3 ..... 01 p0155 N84-11024 #
CONF-830888-4 ..... 02 p0201 N84-11309 #
CONF-830888-5 ..... 02 p0197 N84-11260 #
CONF-830888-6 ..... 05 p0660 N84-14341 #
CONF-830888-8 ..... 03 p0357 N84-12322 #
CONF-830888-9 ..... 04 p0503 N84-13296 #
CONF-830888-10 ..... 04 p0503 N84-13299 #
CONF-830888-11 ..... 07 p0976 N84-16326 #
CONF-830891-1 ..... 01 p0155 N84-11022 #
CONF-830892-1 ..... 01 p0125 N84-10812 #
CONF-830895-1 ..... 03 p0367 N84-12390 #
CONF-830895-2 ..... 02 p0191 N84-11243 #
CONF-830895-4 ..... 03 p0455 N84-12993 #
CONF-830895-5 ..... 04 p0558 N84-13680 #
CONF-830895-7 ..... 03 p0347 N84-12259 #
CONF-830895-8 ..... 04 p0615 N84-14058 #
CONF-830899-3 ..... 03 p0428 N84-12805 #
CONF-830902-1 ..... 02 p0269 N84-11764 #
CONF-830903-1 ..... 02 p0215 N84-11412 #
CONF-830904-1 ..... 02 p0215 N84-11409 #
CONF-830905-2 ..... 01 p0082 N84-10535 #
CONF-830905-3 ..... 01 p0082 N84-10534 #
CONF-830906-1 ..... 03 p0446 N84-12931 #
CONF-830908-1 ..... 01 p0151 N84-10993 #
CONF-830908-2 ..... 03 p0446 N84-12930 #
CONF-830908-5 ..... 03 p0448 N84-12948 #
CONF-830908-8 ..... 09 p1392 N84-19089 #
CONF-830909-2 ..... 03 p0446 N84-12932 #
CONF-830909-4 ..... 03 p0449 N84-12955 #
CONF-830909-5 ..... 03 p0449 N84-12954 #
CONF-830909-7 ..... 03 p0447 N84-12940 #
CONF-830909-8 ..... 03 p0447 N84-12939 #
CONF-830910-1 ..... 04 p0616 N84-14068 #
CONF-830910-2 ..... 04 p0538 N84-13539 #
CONF-830910-4 ..... 05 p0685 N84-14505 #
CONF-830910-8 ..... 07 p1008 N84-16538 #
CONF-830911 ..... 04 p0601 N84-13967 #
CONF-830911-2 ..... 03 p0437 N84-12866 #
CONF-830911-4 ..... 04 p0608 N84-14012 #
CONF-830911-5 ..... 03 p0447 N84-12943 #
CONF-830911-6 ..... 04 p0608 N84-14010 #
CONF-830911-7 ..... 03 p0447 N84-12942 #
CONF-830911-8 ..... 03 p0448 N84-12944 #
CONF-830911-9 ..... 03 p0448 N84-12945 #
CONF-830911-10 ..... 03 p0447 N84-12941 #
CONF-830911-11 ..... 03 p0436 N84-12858 #
CONF-830911-12 ..... 03 p0436 N84-12857 #
CONF-830911-13 ..... 05 p0745 N84-14893 #
CONF-830911-15 ..... 04 p0602 N84-13977 #
CONF-830911-16 ..... 04 p0527 N84-13465 #
CONF-830911-17 ..... 04 p0610 N84-14029 #
CONF-830911-18 ..... 04 p0598 N84-13949 #
CONF-830911-19 ..... 04 p0597 N84-13939 #
CONF-830911-20 ..... 04 p0597 N84-13940 #
CONF-830911-21 ..... 04 p0599 N84-13951 #
CONF-830911-22 ..... 04 p0599 N84-13954 #
CONF-830911-24 ..... 04 p0607 N84-14005 #
CONF-830911-25 ..... 04 p0540 N84-13557 #
CONF-830911-26 ..... 04 p0607 N84-14003 #
CONF-830911-27 ..... 04 p0522 N84-13433 #
CONF-830911-29 ..... 04 p0599 N84-13956 #
CONF-830911-30 ..... 04 p0599 N84-13950 #
CONF-830911-31 ..... 04 p0523 N84-13440 #
CONF-830911-32 ..... 04 p0598 N84-13946 #
CONF-830911-33 ..... 04 p0598 N84-13947 #
CONF-830911-34 ..... 07 p1072 N84-16969 #
CONF-830911-35 ..... 08 p1233 N84-18057 #
CONF-830911-36 ..... 08 p1231 N84-18042 #
CONF-830911-38 ..... 13 p1996 N84-22954 #
CONF-830911-39 ..... 20 p3293 N84-30909 #
CONF-830918-4 ..... 04 p0569 N84-13752 #
CONF-830920-2 ..... 01 p0144 N84-10949 #
CONF-830920-3 ..... 01 p0146 N84-10959 #
CONF-830920-8 ..... 04 p0609 N84-14016 #
CONF-830926-1 ..... 03 p0377 N84-12457 #
CONF-830927-1-REV-1 ..... 03 p0454 N84-12965 #
CONF-830927-2 ..... 02 p0299 N84-11966 #
CONF-830928-1 ..... 02 p0232 N84-11523 #
CONF-830929-5 ..... 03 p0475 N84-13128 #
CONF-830936-2 ..... 03 p0436 N84-12859 #
CONF-830936-3 ..... 07 p0971 N84-16290 #
CONF-830941-34 ..... 04 p0500 N84-13278 #
CONF-830942-2 ..... 03 p0450 N84-12962 #
CONF-830942-7 ..... 04 p0502 N84-13292 #
CONF-830942-8 ..... 04 p0611 N84-14035 #
CONF-830942-9 ..... 04 p0500 N84-13277 #
CONF-830942-12 ..... 04 p0502 N84-13291 #
CONF-830942-13 ..... 04 p0610 N84-14026 #
CONF-830942-15 ..... 04 p0503 N84-13295 #
CONF-830942-16 ..... 04 p0503 N84-13296 #
CONF-830942-19 ..... 04 p0499 N84-13275 #
CONF-830942-20 ..... 04 p0606 N84-14002 #
CONF-830942-22 ..... 04 p0504 N84-13305 #
CONF-830942-28 ..... 04 p0501 N84-13285 #
CONF-830942-29 ..... 04 p0502 N84-13293 #
CONF-830942-31 ..... 04 p0499 N84-13273 #
CONF-830942-33 ..... 04 p0502 N84-13294 #
CONF-830942-37 ..... 04 p0613 N84-14048 #
CONF-830942-39 ..... 04 p0611 N84-14031 #
CONF-830942-42 ..... 04 p0500 N84-13281 #
CONF-830942-43 ..... 04 p0501 N84-13283 #
CONF-830942-44 ..... 04 p0500 N84-13282 #
CONF-830942-46 ..... 04 p0508 N84-13329 #
CONF-830942-47 ..... 04 p0504 N84-13304 #
CONF-830942-48 ..... 21 p3367 N84-31359 #
CONF-830942-49 ..... 04 p0499 N84-13276 #
CONF-830942-51 ..... 04 p0611 N84-14033 #
CONF-830942-52 ..... 04 p0504 N84-13303 #
CONF-830942-53 ..... 04 p0504 N84-13302 #
CONF-830942-56 ..... 05 p0656 N84-14315 #
CONF-830942-57 ..... 05 p0750 N84-14924 #
CONF-830942-58 ..... 08 p1133 N84-17368 #
CONF-830942-59 ..... 07 p1083 N84-17045 #
CONF-830942-62 ..... 08 p1134 N84-17377 #
CONF-830942-63 ..... 08 p1134 N84-17376 #
CONF-830942-65 ..... 08 p1133 N84-17370 #
CONF-830942-67 ..... 08 p1134 N84-17374 #
CONF-830942-68 ..... 08 p1135 N84-17379 #
CONF-830942-70 ..... 09 p1285 N84-18393 #
CONF-830942-76 ..... 10 p1461 N84-19539 #
CONF-830942-85 ..... 20 p3309 N84-31018 #
CONF-830950 ..... 15 p2418 N84-25522 #
CONF-830950-1 ..... 05 p0760 N84-14983 #
CONF-830950-2 ..... 04 p0616 N84-14069 #
CONF-830950-3 ..... 06 p0935 N84-16080 #
CONF-830963-1 ..... 02 p0277 N84-11814 #
CONF-830969-2 ..... 04 p0539 N84-13543 #
CONF-830969-3 ..... 05 p0685 N84-14504 #
CONF-830970-3 ..... 06 p0916 N84-15954 #
CONF-830971-3 ..... 04 p0594 N84-13918 #
CONF-830971-6 ..... 05 p0759 N84-14982 #
CONF-830972-1 ..... 08 p1188 N84-17739 #
CONF-830974 ..... 20 p3236 N84-30540 #
CONF-830974-3 ..... 03 p0404 N84-12644 #
CONF-830974-7 ..... 04 p0545 N84-13589 #
CONF-830975-1 ..... 01 p0098 N84-10635 #
CONF-830975-3 ..... 03 p0390 N84-12544 #
CONF-830976-4 ..... 04 p0492 N84-13231 #
CONF-830980 ..... 16 p2513 N84-26125 #
CONF-830980-3 ..... 04 p0535 N84-13516 #
CONF-830990-2 ..... 08 p1138 N84-17402 #
CONF-830990-3 ..... 07 p1003 N84-16505 #
CONF-830994-1 ..... 01 p0114 N84-10741 #
CONF-830999-1 ..... 01 p0039 N84-10244 #
CONF-830999-2 ..... 04 p0494 N84-13245 #
CONF-831003-1 ..... 03 p0350 N84-12278 #
CONF-831011-2 ..... 04 p0493 N84-13239 #
CONF-831011-3 ..... 04 p0495 N84-13247 #
CONF-831011-3-REV-1 ..... 11 p1626 N84-20644 #
CONF-831011-4 ..... 08 p1230 N84-18040 #
CONF-831015-1 ..... 03 p0461 N84-13039* #
CONF-831015-2 ..... 03 p0441 N84-12898 #
CONF-831015-5 ..... 05 p0685 N84-14506 #
CONF-831015-11 ..... 06 p0830 N84-15405 #
CONF-831015-12 ..... 05 p0676 N84-14443 #
CONF-831015-13 ..... 05 p0720 N84-14719 #
CONF-831015-16 ..... 07 p0998 N84-16470 #
CONF-831015-18 ..... 07 p1053 N84-16816 #
CONF-831015-26 ..... 08 p1228 N84-18022 #
CONF-831015-28 ..... 10 p1499 N84-19795 #
CONF-831015-29 ..... 10 p1487 N84-19722 #
CONF-831015-32 ..... 10 p1564 N84-20250 #
CONF-831015-37 ..... 13 p2048 N84-23286 #
CONF-831015-39 ..... 15 p2337 N84-25032 #
CONF-831015-40 ..... 14 p2148 N84-23871 #
CONF-831015-41 ..... 15 p2337 N84-25031 #
CONF-831015-42 ..... 15 p2339 N84-25038 #
CONF-831015-48 ..... 20 p3266 N84-30720 #
CONF-831020-1 ..... 03 p0461 N84-13034 #
CONF-831020-2 ..... 03 p0368 N84-12395 #
CONF-831020-3 ..... 04 p0528 N84-13472 #
CONF-831025-1 ..... 03 p0381 N84-12480 #
CONF-831025-12 ..... 04 p0605 N84-13991 #
CONF-831025-13 ..... 04 p0605 N84-13990 #
CONF-831025-16 ..... 09 p1324 N84-18647 #
CONF-831025-19 ..... 05 p0651 N84-14277 #
CONF-831025-21 ..... 07 p0972 N84-16297 #
CONF-831025-23 ..... 06 p0802 N84-15227 #
CONF-831025-24 ..... 06 p0851 N84-15548 #
CONF-831025-27 ..... 09 p1342 N84-18768 #

CONF-831025-28 ..... 09 p1266 N84-18395 #
CONF-831025-31 ..... 15 p2288 N84-24728 #
CONF-831028-1 ..... 04 p0559 N84-13687 #
CONF-831028-4 ..... 06 p0874 N84-15690 #
CONF-831041-2 ..... 03 p0408 N84-12672 #
CONF-831041-11 ..... 05 p0697 N84-14578 #
CONF-831047-1 ..... 03 p0454 N84-12991 #
CONF-831047-7 ..... 03 p0424 N84-12774 #
CONF-831047-19 ..... 04 p0592 N84-13908 #
CONF-831047-27 ..... 03 p0356 N84-12319 #
CONF-831047-35 ..... 03 p0385 N84-12511 #
CONF-831047-55 ..... 04 p0608 N84-14011 #
CONF-831047-73-SUMM ..... 04 p0507 N84-13326 #
CONF-831047-133 ..... 14 p2123 N84-23726 #
CONF-831048-1 ..... 08 p1183 N84-17703 #
CONF-831048-2 ..... 08 p1182 N84-17702 #
CONF-831060-ABSTS ..... 19 p3079 N84-29538 #
CONF-831063-3 ..... 03 p0347 N84-12256 #
CONF-831063-9 ..... 07 p1074 N84-16982 #
CONF-831063-14 ..... 22 p3594 N84-32762 #
CONF-831065-1 ..... 08 p1229 N84-18034 #
CONF-831069-1 ..... 04 p0565 N84-13722 #
CONF-831069-4 ..... 11 p1674 N84-20927 #
CONF-831069-5 ..... 20 p3247 N84-30609 #
CONF-831070-2 ..... 04 p0600 N84-13958 #
CONF-831070-4 ..... 03 p0369 N84-12401 #
CONF-831086-1 ..... 03 p0369 N84-12403 #
CONF-831086-2 ..... 03 p0354 N84-12299 #
CONF-831086-3 ..... 03 p0404 N84-12642 #
CONF-831086-4 ..... 03 p0353 N84-12297 #
CONF-831086-5 ..... 03 p0369 N84-12404 #
CONF-831086-6 ..... 04 p0496 N84-13254 #
CONF-831086-7 ..... 07 p0998 N84-16471 #
CONF-831086-8 ..... 07 p0998 N84-16473 #
CONF-831086-10 ..... 10 p1461 N84-19545 #
CONF-831086-11 ..... 11 p1745 N84-21388 #
CONF-831086-12 ..... 13 p1987 N84-22898 #
CONF-831086-13 ..... 20 p3179 N84-30196 #
CONF-831091-1 ..... 04 p0523 N84-13436 #
CONF-831093-2 ..... 06 p0830 N84-15404 #
CONF-831096-1 ..... 03 p0458 N84-13013 #
CONF-831102-1 ..... 07 p1027 N84-16655 #
CONF-831104-1 ..... 04 p0527 N84-13469 #
CONF-831104-2 ..... 04 p0529 N84-13480 #
CONF-831105-1 ..... 05 p0750 N84-14923 #
CONF-831105-4 ..... 08 p1233 N84-18060 #
CONF-831105-7 ..... 12 p1911 N84-22449 #
CONF-831111-1 ..... 04 p0536 N84-13524 #
CONF-831111-2 ..... 04 p0535 N84-13517 #
CONF-831111-3 ..... 05 p0738 N84-14848 #
CONF-831111-5 ..... 06 p0896 N84-15818 #
CONF-831111-8 ..... 04 p0583 N84-13849 #
CONF-831111-9 ..... 07 p1004 N84-16509 #
CONF-831111-11 ..... 07 p0979 N84-16347 #
CONF-831130-1 ..... 07 p1078 N84-17007 #
CONF-831130-2 ..... 10 p1501 N84-19807 #
CONF-831138-1 ..... 12 p1864 N84-22144 #
CONF-831142-1 ..... 07 p0979 N84-16346 #
CONF-831160-2 ..... 05 p0761 N84-14992 #
CONF-831161-ABSTS ..... 12 p1864 N84-22143 #
CONF-831171-1 ..... 04 p0607 N84-14009 #
CONF-831171-2 ..... 04 p0600 N84-13960 #
CONF-831171-3 ..... 04 p0496 N84-13252 #
CONF-831171-4 ..... 04 p0500 N84-13279 #
CONF-831171-5 ..... 04 p0494 N84-13246 #
CONF-831171-7 ..... 04 p0602 N84-13973 #
CONF-831171-9 ..... 05 p0685 N84-14502 #
CONF-831171-10 ..... 05 p0663 N84-14360 #
CONF-831171-13 ..... 06 p0916 N84-15953 #
CONF-831171-15 ..... 07 p1078 N84-17011 #
CONF-831174-1 ..... 07 p1081 N84-17031 #
CONF-831174-5 ..... 05 p0656 N84-14311 #
CONF-831174-6 ..... 05 p0655 N84-14308 #
CONF-831174-7 ..... 05 p0755 N84-14952 #
CONF-831174-9 ..... 07 p1082 N84-17035 #
CONF-831174-10 ..... 07 p1082 N84-17036 #
CONF-831174-12 ..... 07 p0972 N84-16299 #
CONF-831174-13 ..... 07 p0975 N84-16318 #
CONF-831174-14 ..... 07 p1082 N84-17034 #
CONF-831174-15 ..... 08 p1235 N84-18075 #
CONF-831174-18 ..... 07 p1081 N84-17032 #
CONF-831174-19 ..... 07 p1082 N84-17039 #
CONF-831174-22 ..... 07 p1010 N84-16552 #
CONF-831174-23 ..... 07 p0980 N84-16348 #
CONF-831174-26 ..... 07 p0968 N84-16273 #
CONF-831174-28 ..... 08 p1234 N84-18063 #
CONF-831174-30 ..... 08 p1133 N84-17371 #
CONF-831174-32 ..... 10 p1463 N84-19553 #
CONF-831174-36 ..... 08 p1138 N84-17403 #
CONF-831174-37 ..... 07 p0999 N84-16478 #
CONF-831174-38 ..... 09 p1285 N84-18392 #
CONF-831174-39 ..... 08 p1236 N84-18081 #
CONF-831174-40 ..... 08 p1135 N84-17380 #
CONF-831174-41 ..... 08 p1138 N84-17404 #
CONF-831174-42 ..... 09 p1290 N84-18423 #
CONF-831174-43 ..... 09 p1289 N84-18413 #
CONF-831174-44 ..... 08 p1134 N84-17375 #
CONF-831174-46 ..... 08 p1136 N84-17386* #
CONF-831174-47 ..... 08 p1236 N84-18079 #
CONF-831174-52 ..... 11 p1673 N84-20920 #
CONF-831174-64 ..... 13 p1996 N84-22953 #
CONF-831174-66 ..... 11 p1730 N84-21288 #
CONF-831174-72 ..... 14 p2243 N84-24470 #
CONF-831174-74 ..... 14 p2243 N84-24459 #
CONF-831174-75 ..... 12 p1915 N84-22480 #
CONF-831174-76 ..... 14 p2243 N84-24468 #
CONF-831174-81 ..... 13 p1961 N84-22741 #
CONF-831175-78 ..... 15 p2298 N84-24791 #
CONF-831180-2 ..... 08 p1229 N84-18031 #
CONF-831180-4 ..... 07 p1072 N84-16967 #
CONF-831180-12-REV ..... 13 p2041 N84-23243 #
CONF-831180-18 ..... 12 p1910 N84-22447 #
CONF-831180-19 ..... 12 p1903 N84-22395 #
CONF-831180-23 ..... 14 p2223 N84-24340 #
CONF-831180-25 ..... 15 p2405 N84-25437 #
CONF-831182-1 ..... 03 p0364 N84-12503 #
CONF-831187-1 ..... 06 p0924 N84-16010 #
CONF-831187-3 ..... 04 p0614 N84-14053 #
CONF-831187-5 ..... 04 p0505 N84-13307 #
CONF-831187-6 ..... 04 p0508 N84-13330 #
CONF-831187-7 ..... 05 p0755 N84-14951 #
CONF-831187-8 ..... 05 p0657 N84-14317 #
CONF-831187-11 ..... 07 p0974 N84-16315 #
CONF-831187-13 ..... 08 p1236 N84-18078 #
CONF-831187-17 ..... 15 p2402 N84-25420 #
CONF-831187-18 ..... 15 p2299 N84-24799 #
CONF-831192-1 ..... 05 p0704 N84-14620 #
CONF-831193-1 ..... 06 p0898 N84-15832 #
CONF-831194-1 ..... 06 p0924 N84-16007 #
CONF-831195-2 ..... 08 p1162 N84-17564 #
CONF-831195-3 ..... 08 p1126 N84-17319 #
CONF-831195-4 ..... 10 p1502 N84-19620 #
CONF-831195-5 ..... 10 p1498 N84-19792 #
CONF-831195-6 ..... 13 p1994 N84-22940 #
CONF-831195-7 ..... 19 p3028 N84-29203 #
CONF-831198-1 ..... 06 p0894 N84-15810 #
CONF-831202-1 ..... 05 p0758 N84-14969 #
CONF-831202-2 ..... 05 p0730 N84-14795 #
CONF-831203-2 ..... 07 p1078 N84-17010 #
CONF-831203-3 ..... 07 p1078 N84-17009 #
CONF-831203-4 ..... 07 p1078 N84-17008 #
CONF-831203-20 ..... 08 p1162 N84-17568 #
CONF-831203-21 ..... 08 p1233 N84-18082 #
CONF-831203-26 ..... 08 p1233 N84-18081 #
CONF-831203-29 ..... 09 p1392 N84-19090 #
CONF-831203-31 ..... 09 p1388 N84-19062 #
CONF-831203-37 ..... 10 p1575 N84-20319 #
CONF-831203-40 ..... 10 p1494 N84-19767 #
CONF-831203-43 ..... 10 p1586 N84-20396 #
CONF-831203-44 ..... 10 p1501 N84-19810 #
CONF-831203-45 ..... 10 p1586 N84-20399 #
CONF-831203-46 ..... 10 p1586 N84-20395 #
CONF-831203-47 ..... 10 p1586 N84-20394 #
CONF-831203-48 ..... 11 p1732 N84-21298 #
CONF-831203-66 ..... 10 p1586 N84-20393 #
CONF-831203-71 ..... 11 p1737 N84-21332 #
CONF-831203-86 ..... 11 p1663 N84-20855 #
CONF-831203-95 ..... 11 p1738 N84-21341 #
CONF-831203-111 ..... 13 p2045 N84-23269 #
CONF-831203-131 ..... 15 p2322 N84-24940 #
CONF-831203-134 ..... 19 p3108 N84-29748 #
CONF-831203-138-REV-1 ..... 21 p3392 N84-31526 #
CONF-831203-141 ..... 21 p3393 N84-31534 #
CONF-831203-145 ..... 20 p3278 N84-30807 #
CONF-831203-156 ..... 21 p3393 N84-31532 #
CONF-831203-163 ..... 22 p3600 N84-32801 #
CONF-831205-2 ..... 05 p0662 N84-14350 #
CONF-831205-6 ..... 11 p1738 N84-21339 #
CONF-831205-7 ..... 15 p2363 N84-25178 #
CONF-831205-8 ..... 14 p2169 N84-23992 #
CONF-831208-1 ..... 05 p0730 N84-14794 #
CONF-831219-1 ..... 22 p3562 N84-32557 #
CONF-831235-1 ..... 04 p0616 N84-14065 #
CONF-831235-3 ..... 11 p1661 N84-20838 #
CONF-831243-1 ..... 06 p0924 N84-16006 #
CONF-831243-2 ..... 05 p0754 N84-14949 #
CONF-831243-4 ..... 10 p1498 N84-19794 #
CONF-831245-2 ..... 10 p1497 N84-19785 #
CONF-831246-1 ..... 05 p0656 N84-14310 #
CONF-831247-1 ..... 08 p1213 N84-17914 #
CONF-831248-1 ..... 08 p1181 N84-17692 #
CONF-831252-1 ..... 11 p1674 N84-20924 #
CONF-831253-1 ..... 11 p1672 N84-20908 #
CONF-831253-8 ..... 13 p2009 N84-23030 #
CONF-831253-9 ..... 13 p2006 N84-23014 #
CONF-831254-3 ..... 19 p3103 N84-29710 #
CONF-831256-1 ..... 11 p1716 N84-21191 #
CONF-831256-2 ..... 19 p3025 N84-29183 #
CONF-831257-1 ..... 10 p1499 N84-19799 #
CONF-831261-1 ..... 11 p1693 N84-21042 #
CONF-831264-2 ..... 12 p1916 N84-22483 #
CONF-831264-3 ..... 12 p1916 N84-22482 #

CONF-831264-5 ..... 12 p1903 N84-22390 #
CONF-831264-6 ..... 12 p1915 N84-22476 #
CONF-831264-12 ..... 15 p2406 N84-25442 #
CONF-831264-13 ..... 19 p3033 N84-29238 #
CONF-831264-14 ..... 20 p3285 N84-30858 #
CONF-831265-1 ..... 11 p1664 N84-20656 #
CONF-831265-2 ..... 12 p1819 N84-21855 #
CONF-831265-4 ..... 20 p3194 N84-30284 #
CONF-831267-1 ..... 15 p2414 N84-25494 #
CONF-831267-2 ..... 15 p2399 N84-25395 #
CONF-831267-4 ..... 20 p3312 N84-31031 #
CONF-831270 ..... 15 p2359 N84-25158 #
CONF-831272-1 ..... 15 p2421 N84-25537 #
CONF-831272-2 ..... 15 p2365 N84-25188 #
CONF-831273-1 ..... 15 p2364 N84-25184 #
CONF-831278-1 ..... 20 p3311 N84-31029 #
CONF-831284-1 ..... 22 p3595 N84-32768 #
CONF-831476-6 ..... 03 p0438 N84-12874 #
CONF-840101-1 ..... 10 p1457 N84-19513 #
CONF-840101-3 ..... 22 p3659 N84-33194 #
CONF-840102-ABSTS ..... 12 p1794 N84-21699 #
CONF-840102-1 ..... 21 p3361 N84-31325 #
CONF-840112-2 ..... 12 p1813 N84-21817 #
CONF-840113-5 ..... 12 p1824 N84-21891 #
CONF-840113-7 ..... 12 p1904 N84-22397 #
CONF-840113-8 ..... 20 p3187 N84-30248 #
CONF-840115-1 ..... 11 p1709 N84-21141 #
CONF-840119-1 ..... 08 p1221 N84-17973 #
CONF-840119-2 ..... 08 p1160 N84-17550 #
CONF-840124-1 ..... 11 p1653 N84-20795 #
CONF-840124-2 ..... 11 p1665 N84-20865 #
CONF-840124-6 ..... 19 p3071 N84-29485 #
CONF-840133-1 ..... 07 p1003 N84-16502 #
CONF-840133-4 ..... 11 p1654 N84-20800 #
CONF-840135-2 ..... 21 p3371 N84-31389 #
CONF-840136-1 ..... 11 p1628 N84-20652 #
CONF-840137-1 ..... 11 p1688 N84-21007 #
CONF-840139-1 ..... 12 p1908 N84-22433 #
CONF-840139-2 ..... 13 p2048 N84-23287 #
CONF-840139-3 ..... 14 p2151 N84-23688 #
CONF-840139-4 ..... 19 p3030 N84-29219 #
CONF-840139-6 ..... 22 p3601 N84-32815 #
CONF-840140-1 ..... 11 p1745 N84-21390 #
CONF-840141-3 ..... 18 p2931 N84-28585 #
CONF-840142-2 ..... 13 p2045 N84-23271 #
CONF-840142-5 ..... 20 p3294 N84-30912 #
CONF-840142-8 ..... 21 p3493 N84-32138 #
CONF-840145-1 ..... 12 p1916 N84-22481 #
CONF-840145-2 ..... 21 p3505 N84-32210 #
CONF-840150-1 ..... 20 p3319 N84-31072 #
CONF-840150-4 ..... 20 p3295 N84-30921 #
CONF-840150-6 ..... 22 p3681 N84-33334 #
CONF-840201-6 ..... 11 p1674 N84-20926 #
CONF-840201-7 ..... 10 p1494 N84-19770 #
CONF-840201-9 ..... 12 p1863 N84-22139 #
CONF-840201-10 ..... 15 p2374 N84-25244 #
CONF-840202-3 ..... 10 p1499 N84-19798 #
CONF-840202-21 ..... 15 p2399 N84-25397 #
CONF-840202-25 ..... 20 p3267 N84-30730 #
CONF-840218-2 ..... 12 p1799 N84-21733 #
CONF-840218-5 ..... 15 p2351 N84-25111 #
CONF-840218-6 ..... 18 p2815 N84-27868 #
CONF-840218-7 ..... 20 p3157 N84-30046 #
CONF-840249-1 ..... 11 p1732 N84-21300 #
CONF-840250-1 ..... 12 p1817 N84-21843 #
CONF-840253-1 ..... 12 p1813 N84-21821 #
CONF-840253-2 ..... 14 p2249 N84-24510 #
CONF-840255-1 ..... 16 p2559 N84-26415 #
CONF-840255-2 ..... 14 p2230 N84-24376 #
CONF-840255-3 ..... 14 p2230 N84-24377 #
CONF-840255-4 ..... 20 p3304 N84-30984 #
CONF-840255-5 ..... 20 p3304 N84-30986 #
CONF-840255-6 ..... 14 p2230 N84-24371 #
CONF-840255-8 ..... 20 p3304 N84-30987 #
CONF-840255-9 ..... 20 p3284 N84-30853 #
CONF-840255-10 ..... 19 p3109 N84-29752 #
CONF-840255-11 ..... 15 p2412 N84-25479 #
CONF-840255-12 ..... 20 p3304 N84-30985 #
CONF-840255-14 ..... 20 p3305 N84-30989 #
CONF-840255-15 ..... 15 p2411 N84-25473 #
CONF-840255-16 ..... 15 p2411 N84-25477 #
CONF-840255-17 ..... 15 p2412 N84-25478 #
CONF-840255-18 ..... 20 p3303 N84-30975 #
CONF-840255-19 ..... 20 p3284 N84-30854 #
CONF-840256-1 ..... 14 p2229 N84-24366 #
CONF-840256-2 ..... 20 p3303 N84-30980 #
CONF-840256-3 ..... 20 p3185 N84-30235 #
CONF-840256-4 ..... 21 p3444 N84-31855 #
CONF-840256-1 ..... 14 p2243 N84-24466 #
CONF-840256-4 ..... 18 p2819 N84-27899 #
CONF-840260-1 ..... 15 p2389 N84-25330 #
CONF-840264-1-DRAFT ..... 15 p2415 N84-25498 #
CONF-840264-2 ..... 19 p3026 N84-29193 #
CONF-840264-3 ..... 18 p2928 N84-28566 #
CONF-840264-4 ..... 20 p3293 N84-30904 #
CONF-840264-5 ..... 20 p3310 N84-31020 #
CONF-840265-1 ..... 15 p2411 N84-25476 #
CONF-840266-1 ..... 15 p2333 N84-25011 #
CONF-840269-1 ..... 15 p2299 N84-24796 #
CONF-840274-1 ..... 19 p2996 N84-28982 #
CONF-840275-4 ..... 20 p3293 N84-30908 #
CONF-840276-1 ..... 20 p3313 N84-31041 #
CONF-840279-1 ..... 20 p3179 N84-30192 #
CONF-840280-3 ..... 20 p3321 N84-31081 #
CONF-840280-4 ..... 20 p3320 N84-31080 #
CONF-840281-1 ..... 21 p3507 N84-32217 #
CONF-840284-1-REV-1 ..... 20 p3310 N84-31023 #
CONF-840288-1 ..... 20 p3164 N84-30095 #
CONF-840290-1 ..... 22 p3547 N84-32457 #
CONF-840302-4 ..... 20 p3237 N84-30547 #
CONF-840304-3 ..... 20 p3154 N84-30025 #
CONF-840307-22 ..... 18 p2849 N84-28092 #
CONF-840307-42 ..... 20 p3158 N84-30058 #
CONF-840311-1 ..... 15 p2410 N84-25469 #
CONF-840311-3 ..... 19 p3106 N84-29737 #
CONF-840311-10 ..... 20 p3304 N84-30982 #
CONF-840311-11 ..... 20 p3304 N84-30981 #
CONF-840311-13 ..... 21 p3501 N84-32186 #
CONF-840366-1 ..... 12 p1884 N84-22282 #
CONF-840367-1 ..... 11 p1674 N84-20925 #
CONF-840370-1 ..... 20 p3282 N84-30841 #
CONF-840370-3 ..... 18 p2933 N84-28603 #
CONF-840371-1 ..... 11 p1645 N84-20753 #
CONF-840374-2 ..... 18 p2878 N84-28273 #
CONF-840375-1 ..... 14 p2225 N84-24353 #
CONF-840385-3 ..... 22 p3679 N84-33321* #
CONF-840387 ..... 21 p3410 N84-31627 #
CONF-840387-2 ..... 20 p3194 N84-30283 #
CONF-840387-5 ..... 18 p2941 N84-28655 #
CONF-840387-7 ..... 20 p3193 N84-30279 #
CONF-840387-9 ..... 21 p3410 N84-31628 #
CONF-840389-1 ..... 15 p2378 N84-25275 #
CONF-840389-2 ..... 15 p2364 N84-25187 #
CONF-840390-1 ..... 15 p2421 N84-25538 #
CONF-840391-1 ..... 19 p3107 N84-29745 #
CONF-840391-2 ..... 22 p3578 N84-32663 #
CONF-840396-1 ..... 19 p3028 N84-29202 #
CONF-840398-1 ..... 19 p3112 N84-29776 #
CONF-840402-4 ..... 20 p3236 N84-30543 #
CONF-840402-5 ..... 20 p3149 N84-29995 #
CONF-840403-1 ..... 21 p3394 N84-31536 #
CONF-840403-2 ..... 22 p3588 N84-32724 #
CONF-840403-6 ..... 20 p3181 N84-30212 #
CONF-840405-2 ..... 15 p2298 N84-24792 #
CONF-840405-3 ..... 14 p2128 N84-23758 #
CONF-840405-4 ..... 14 p2128 N84-23759 #
CONF-840405-5 ..... 15 p2299 N84-24797 #
CONF-840405-9 ..... 13 p1965 N84-22766 #
CONF-840405-10 ..... 18 p2812 N84-27850 #
CONF-840405-12 ..... 20 p3155 N84-30032 #
CONF-840405-13 ..... 22 p3667 N84-33247 #
CONF-840411-3 ..... 15 p2298 N84-24793 #
CONF-840411-7 ..... 14 p2128 N84-23760 #
CONF-840411-17 ..... 19 p3108 N84-29747 #
CONF-840411-20 ..... 21 p3367 N84-31362 #
CONF-840413-3 ..... 20 p3198 N84-30309 #
CONF-840413-4 ..... 21 p3407 N84-31608 #
CONF-840413-9 ..... 21 p3414 N84-31647 #
CONF-840413-10 ..... 21 p3414 N84-31646 #
CONF-840413-11 ..... 20 p3196 N84-30296* #
CONF-840415-15 ..... 14 p2123 N84-23725 #
CONF-840415-18 ..... 15 p2406 N84-25443 #
CONF-840415-20 ..... 20 p3295 N84-30919 #
CONF-840415-24 ..... 23 p3823 N84-34242 #
CONF-840417 ..... 20 p3154 N84-30029 #
CONF-840434-1 ..... 20 p3197 N84-30304 #
CONF-840440-1 ..... 21 p3358 N84-31297 #
CONF-840448-1 ..... 13 p1997 N84-22962 #
CONF-840448-2 ..... 13 p1998 N84-22964 #
CONF-840448-4 ..... 20 p3198 N84-30313 #
CONF-840449-1 ..... 21 p3409 N84-31624 #
CONF-840449-3 ..... 21 p3495 N84-32150 #
CONF-840449-5 ..... 21 p3360 N84-31318 #
CONF-840449-6 ..... 21 p3410 N84-31630 #
CONF-840449-7 ..... 21 p3361 N84-31319 #
CONF-840449-8 ..... 20 p3150 N84-30006 #
CONF-840449-9 ..... 21 p3361 N84-31320 #
CONF-840458-1 ..... 21 p3462 N84-31951 #
CONF-840459-1 ..... 14 p2120 N84-23707 #
CONF-840459-2 ..... 13 p1954 N84-22705 #
CONF-840459-3 ..... 13 p1954 N84-22706 #
CONF-840469-1 ..... 13 p2017 N84-23077 #
CONF-840469-2 ..... 15 p2298 N84-24794 #
CONF-840474-1 ..... 14 p2149 N84-23873 #
CONF-840474-2 ..... 14 p2121 N84-23709 #
CONF-840475-1 ..... 14 p2148 N84-23870 #
CONF-840475-3 ..... 18 p2878 N84-28272 #
CONF-840481-1 ..... 15 p2405 N84-25439 #
CONF-840481-2 ..... 15 p2405 N84-25438 #
CONF-840481-4 ..... 14 p2230 N84-24372 #
CONF-840481-5 ..... 20 p3296 N84-30928 #
CONF-840490-1 ..... 14 p2142 N84-23845 #

CONF-840494-1 ..... 11 p1732 N84-21299 #
CONF-840494-2 ..... 13 p2044 N84-23260 #
CONF-840494-3 ..... 15 p2344 N84-25070 #
CONF-840494-4 ..... 15 p2344 N84-25069 #
CONF-840495-1 ..... 15 p2359 N84-25157 #
CONF-840496-1 ..... 13 p1927 N84-22541 #
CONF-840496-9 ..... 15 p2258 N84-24563 #
CONF-840497-11 ..... 21 p3519 N84-32295 #
CONF-840497-12 ..... 21 p3519 N84-32294 #
CONF-840498-1 ..... 13 p2043 N84-23259 #
CONF-840501-1 ..... 21 p3449 N84-31882 #
CONF-840504-2 ..... 20 p3291 N84-30696 #
CONF-840508-1 ..... 20 p3236 N84-30539 #
CONF-840512-8 ..... 19 p3027 N84-29201 #
CONF-840515-1 ..... 19 p3011 N84-29086 #
CONF-840520-3 ..... 20 p3307 N84-31006 #
CONF-840520-4 ..... 20 p3306 N84-30997 #
CONF-840520-5 ..... 22 p3659 N84-33192 #
CONF-840520-8 ..... 22 p3660 N84-33199 #
CONF-840520-14 ..... 22 p3660 N84-33202 #
CONF-840529-1 ..... 15 p2408 N84-25456 #
CONF-840529-7 ..... 20 p3193 N84-30278 #
CONF-840529-8 ..... 20 p3193 N84-30280 #
CONF-840529-9 ..... 20 p3193 N84-30277 #
CONF-840529-11 ..... 20 p3175 N84-30165 #
CONF-840529-14 ..... 20 p3175 N84-30163 #
CONF-840529-17 ..... 21 p3387 N84-31499 #
CONF-840529-19 ..... 21 p3387 N84-31498 #
CONF-840529-23 ..... 20 p3295 N84-30920 #
CONF-840529-24 ..... 21 p3387 N84-31497 #
CONF-840529-25 ..... 21 p3494 N84-32145 #
CONF-840529-28 ..... 22 p3654 N84-33164 #
CONF-840529-29 ..... 21 p3497 N84-32161 #
CONF-840529-30 ..... 20 p3293 N84-30907 #
CONF-840529-32 ..... 21 p3496 N84-32154 #
CONF-840530-4 ..... 22 p3654 N84-33162 #
CONF-840539-1 ..... 19 p3073 N84-29496 #
CONF-840555-1 ..... 19 p2995 N84-28977 #
CONF-840555-3 ..... 20 p3296 N84-30925 #
CONF-840560-1 ..... 15 p2395 N84-25369 #
CONF-840561-13 ..... 22 p3618 N84-32926 #
CONF-840570-1 ..... 20 p3162 N84-30082 #
CONF-840570-2 ..... 21 p3505 N84-32209 #
CONF-840570-3 ..... 21 p3434 N84-31790 #
CONF-840576-5 ..... 22 p3646 N84-33120 #
CONF-840576-15 ..... 15 p2393 N84-25361 #
CONF-840577-5 ..... 20 p3189 N84-30260 #
CONF-840577-6 ..... 21 p3406 N84-31605 #
CONF-840578-1 ..... 19 p3020 N84-29149 #
CONF-840579-1 ..... 19 p3037 N84-29263 #
CONF-840604-5 ..... 20 p3155 N84-30034 #
CONF-840604-6 ..... 20 p3158 N84-30053 #
CONF-840604-7 ..... 21 p3505 N84-32214 #
CONF-840604-9 ..... 23 p3718 N84-33572 #
CONF-840604-10 ..... 22 p3557 N84-32522 #
CONF-840604-11 ..... 23 p3720 N84-33581 #
CONF-840608-1 ..... 21 p3521 N84-32308 #
CONF-840612-9-REV-1 ..... 21 p3436 N84-31803 #
CONF-840614-22 ..... 20 p3185 N84-30236 #
CONF-840614-27 ..... 21 p3401 N84-31579 #
CONF-840614-31 ..... 20 p3185 N84-30238 #
CONF-840614-39 ..... 20 p3302 N84-30971 #
CONF-840616-1 ..... 20 p3303 N84-30976 #
CONF-840616-2 ..... 20 p3305 N84-30993 #
CONF-840616-4 ..... 20 p3305 N84-30992 #
CONF-840616-5 ..... 20 p3241 N84-30576 #
CONF-840616-6 ..... 20 p3303 N84-30973 #
CONF-840616-7 ..... 20 p3309 N84-31017 #
CONF-840616-8 ..... 20 p3305 N84-30990 #
CONF-840616-9 ..... 20 p3305 N84-30991 #
CONF-840616-11 ..... 20 p3193 N84-30276 #
CONF-840616-12 ..... 20 p3302 N84-30972 #
CONF-840616-13 ..... 20 p3242 N84-30582 #
CONF-840616-14 ..... 21 p3501 N84-32188 #
CONF-840616-15 ..... 20 p3194 N84-30289 #
CONF-840616-16 ..... 22 p3659 N84-33197 #
CONF-840616-17 ..... 22 p3660 N84-33201 #
CONF-840617-1 ..... 20 p3151 N84-30007 #
CONF-840622-1 ..... 20 p3235 N84-30532 #
CONF-840629-1 ..... 20 p3294 N84-30917 #
CONF-840629-2 ..... 20 p3194 N84-30285 #
CONF-840629-4 ..... 22 p3588 N84-32728 #
CONF-840632-1 ..... 20 p3203 N84-30344 #
CONF-840633-9 ..... 20 p3203 N84-30349 #
CONF-840633-13 ..... 20 p3298 N84-30945 #
CONF-840636-REV-1 ..... 20 p3278 N84-30806 #
CONF-840647-1 ..... 20 p3185 N84-30237 #
CONF-840647-2 ..... 21 p3423 N84-31711 #
CONF-840647-14 ..... 21 p3401 N84-31576 #
CONF-840647-18 ..... 22 p3612 N84-32883 #
CONF-840647-20 ..... 22 p3607 N84-32852 #
CONF-840650-1 ..... 20 p3282 N84-30837 #
CONF-840653-1 ..... 20 p3190 N84-30266 #
CONF-840653-2 ..... 20 p3154 N84-30026 #
CONF-840653-3 ..... 20 p3170 N84-30132 #
CONF-840653-4 ..... 22 p3612 N84-32886 #
CONF-840662-1 ..... 21 p3394 N84-31537 #
CONF-840664-1 ..... 20 p3156 N84-30043 #
CONF-840664-2 ..... 20 p3157 N84-30049 #
CONF-840664-5 ..... 20 p3310 N84-31025 #
CONF-840664-6 ..... 20 p3155 N84-30033 #
CONF-840668-1 ..... 20 p3246 N84-30602 #
CONF-840677-SUPPL ..... 23 p3744 N84-33734 #
CONF-840677-2 ..... 21 p3394 N84-31539 #
CONF-840677-3 ..... 22 p3587 N84-32720 #
CONF-840688-1 ..... 21 p3400 N84-31571 #
CONF-840689-1 ..... 20 p3149 N84-29996 #
CONF-840702-2 ..... 21 p3374 N84-31411 #
CONF-840702-3 ..... 21 p3374 N84-31414 #
CONF-840702-4 ..... 21 p3374 N84-31410 #
CONF-840702-6 ..... 21 p3374 N84-31409 #
CONF-840702-7 ..... 20 p3163 N84-30088 #
CONF-840706-1 ..... 20 p3285 N84-30860 #
CONF-840711-1 ..... 21 p3371 N84-31390 #
CONF-840711-2 ..... 20 p3158 N84-30057 #
CONF-840711-3 ..... 21 p3498 N84-32174 #
CONF-840712-2 ..... 21 p3504 N84-32208 #
CONF-840712-3 ..... 21 p3435 N84-31791 #
CONF-840721-1 ..... 21 p3401 N84-31574 #
CONF-840725-2 ..... 21 p3359 N84-31310 #
CONF-840725-3-SUMM ..... 21 p3498 N84-32173 #
CONF-840725-4-SUMM ..... 21 p3362 N84-31327 #
CONF-840744-2 ..... 21 p3432 N84-31776 #
CONF-840746-1 ..... 21 p3423 N84-31710 #
CONF-840753-1 ..... 22 p3595 N84-32767 #
CONF-840755-1 ..... 23 p3818 N84-34211 #
CONF-840801-1 ..... 22 p3549 N84-32467 #
CONF-840801-2 ..... 22 p3548 N84-32463 #
CONF-840801-3 ..... 23 p3715 N84-33550 #
CONF-840801-4 ..... 22 p3606 N84-32844 #
CONF-840801-7 ..... 22 p3548 N84-32459 #
CONF-840801-9 ..... 21 p3362 N84-31329 #
CONF-840801-12 ..... 21 p3361 N84-31324 #
CONF-840801-13 ..... 21 p3361 N84-31322 #
CONF-840801-14 ..... 22 p3549 N84-32484 #
CONF-840804-1 ..... 22 p3562 N84-32559 #
CONF-840804-4 ..... 21 p3435 N84-31797 #
CONF-840804-6 ..... 22 p3589 N84-32734 #
CONF-840804-7 ..... 21 p3497 N84-32164 #
CONF-840804-13 ..... 22 p3605 N84-32840 #
CONF-840804-14 ..... 21 p3395 N84-31545 #
CONF-840804-15 ..... 21 p3435 N84-31792 #
CONF-840804-17 ..... 21 p3402 N84-31581 #
CONF-840804-20 ..... 22 p3655 N84-33169 #
CONF-840804-22 ..... 22 p3605 N84-32842 #
CONF-840804-23 ..... 22 p3587 N84-32722 #
CONF-840804-24 ..... 22 p3587 N84-32721 #
CONF-840805-2 ..... 21 p3506 N84-32215 #
CONF-840805-4 ..... 22 p3543 N84-32432 #
CONF-840805-16 ..... 22 p3561 N84-32548 #
CONF-840805-17 ..... 21 p3372 N84-31394 #
CONF-840809-10 ..... 20 p3242 N84-30580 #
CONF-840813-10 ..... 20 p3149 N84-29997 #
CONF-840816-1 ..... 22 p3595 N84-32770 #
CONF-840816-2 ..... 23 p3712 N84-33529 #
CONF-840816-4 ..... 22 p3596 N84-32771 #
CONF-840816-12 ..... 22 p3599 N84-32796 #
CONF-840816-13 ..... 22 p3595 N84-32764 #
CONF-840820-1 ..... 22 p3588 N84-32723 #
CONF-840830-1 ..... 22 p3641 N84-33085 #
CONF-840833-3 ..... 22 p3612 N84-32884 #
CONF-840833-4 ..... 22 p3595 N84-32766 #
CONF-840833-5 ..... 22 p3564 N84-32570 #
CONF-840841-3 ..... 15 p2404 N84-25432 #
CONF-840842-1 ..... 21 p3496 N84-32160 #
CONF-840842-2 ..... 23 p3830 N84-34297 #
CONF-840842-3 ..... 22 p3665 N84-33232 #
CONF-840842-4 ..... 22 p3665 N84-33233 #
CONF-840842-5 ..... 22 p3666 N84-33244 #
CONF-840842-8 ..... 22 p3556 N84-32515 #
CONF-840842-9 ..... 22 p3666 N84-33245 #
CONF-840842-10 ..... 22 p3666 N84-33243 #
CONF-840842-11 ..... 22 p3555 N84-32514 #
CONF-840842-12 ..... 22 p3653 N84-33153 #
CONF-840842-17 ..... 22 p3664 N84-33230 #
CONF-840842-21 ..... 23 p3831 N84-34300 #
CONF-840845-1 ..... 22 p3619 N84-32931 #
CONF-840849-1 ..... 22 p3649 N84-33134 #
CONF-840849-2 ..... 22 p3649 N84-33136 #
CONF-840849-3 ..... 22 p3649 N84-33135 #
CONF-840850-1 ..... 22 p3606 N84-32845 #
CONF-840853-1 ..... 22 p3560 N84-32545 #
CONF-840853-2 ..... 22 p3590 N84-32741 #
CONF-840853-3 ..... 21 p3395 N84-31544 #
CONF-840853-4 ..... 22 p3589 N84-32730 #
CONF-840853-5 ..... 22 p3588 N84-32729 #
CONF-840867-2 ..... 22 p3562 N84-32558 #
CONF-840868-1 ..... 22 p3548 N84-32460 #
CONF-840869-1A ..... 22 p3641 N84-33086 #
CONF-840916-2 ..... 22 p3605 N84-32843 #
CONF-840979-1 ..... 21 p3422 N84-31709 #
CONF-840981-3 ..... 22 p3602 N84-32817 #

CONF-841058-2 ..... 22 p3589 N84-32731 #
CONF-841076-1 ..... 21 p3402 N84-31584 #
CONF-841201-5 ..... 15 p2333 N84-25012 #
CONF-8006272-1 ..... 12 p1884 N84-22281 #
CONF-8105130-14 ..... 06 p0807 N84-15256 #
CONF-8105244-1 ..... 19 p3113 N84-29782 #
CONF-8205110-4 ..... 01 p0142 N84-10933 #
CONF-8205170-2 ..... 01 p0112 N84-10729 #
CONF-8205188-1 ..... 03 p0453 N84-12980 #
CONF-8205201-2 ..... 01 p0118 N84-10764 #
CONF-8205249-1 ..... 15 p2421 N84-25539 #
CONF-8205268-1 ..... 22 p3655 N84-33166 #
CONF-8206116-25 ..... 06 p0926 N84-16015
CONF-8206120-9 ..... 03 p0437 N84-12865 #
CONF-8206123 ..... 04 p0603 N84-13980 #
CONF-8206187 ..... 04 p0537 N84-13532 #
CONF-8206201-DRAFT ..... 03 p0453 N84-12981 #
CONF-8206212-1 ..... 03 p0435 N84-12855 #
CONF-8206219-1-DRAFT ..... 03 p0437 N84-12867 #
CONF-8207100-1 ..... 06 p0939 N84-16102 #
CONF-8208106-ABSTS ..... 03 p0403 N84-12638 #
CONF-8208109-7 ..... 02 p0250 N84-11633 #
CONF-8208146-1 ..... 03 p0441 N84-12895 #
CONF-8208147-2 ..... 02 p0299 N84-11963 #
CONF-8209111 ..... 06 p0809 N84-15266 #
CONF-8209172-1 ..... 07 p1089 N84-17085 #
CONF-8209944-8 ..... 01 p0085 N84-10552 #
CONF-8210108-5 ..... 03 p0416 N84-12720 #
CONF-8210111-3 ..... 05 p0763 N84-15008 #
CONF-8210120 ..... 01 p0162 N84-11066 #
CONF-8210218-1 ..... 07 p0971 N84-16291 #
CONF-8301059-4 ..... 03 p0349 N84-12272 #
CONF-8303105-1 ..... 07 p1077 N84-17005 #
CONF-8304104-2 ..... 03 p0434 N84-12847 #
CONF-8304105-2 ..... 01 p0038 N84-10243 #
CONF-8304105-4 ..... 03 p0434 N84-12846 #
CONF-8304110-1 ..... 02 p0292 N84-11912 #
CONF-8304110-3 ..... 03 p0437 N84-12868 #
CONF-8304111-1 ..... 03 p0416 N84-12723 #
CONF-8304113-1 ..... 03 p0350 N84-12279 #
CONF-8304116-1 ..... 04 p0495 N84-13250 #
CONF-8304117-1 ..... 03 p0442 N84-12900 #
CONF-8304122-1 ..... 03 p0390 N84-12547 #
CONF-8304129-1 ..... 06 p0783 N84-15128 #
CONF-8304129-2 ..... 12 p1766 N84-21518 #
CONF-8304129-3 ..... 06 p0783 N84-15129 #
CONF-8304135-1 ..... 07 p0971 N84-16293 #
CONF-8304912-2 ..... 04 p0582 N84-13844 #
CONF-8305100-4 ..... 04 p0530 N84-13485 #
CONF-8305102-1 ..... 01 p0154 N84-11014 #
CONF-8305105-1 ..... 01 p0127 N84-10832 #
CONF-8305110-1 ..... 03 p0445 N84-12928 #
CONF-8305110-3 ..... 04 p0590 N84-13901 #
CONF-8305110-4 ..... 04 p0496 N84-13255 #
CONF-8305110-5 ..... 06 p0902 N84-15854 #
CONF-8305110-6 ..... 10 p1469 N84-19592 #
CONF-8305115-1 ..... 02 p0245 N84-11603 #
CONF-8305120-1 ..... 02 p0195 N84-11269 #
CONF-8305123-1 ..... 03 p0476 N84-13134 #
CONF-8305125-1 ..... 03 p0426 N84-12791 #
CONF-8305127-1 ..... 03 p0450 N84-12961 #
CONF-8305127-2 ..... 04 p0541 N84-13560 #
CONF-8305127-4 ..... 11 p1663 N84-20854 #
CONF-8305128-1 ..... 03 p0421 N84-12755 #
CONF-8305133-1 ..... 04 p0620 N84-14091 #
CONF-8305137 ..... 20 p3235 N84-30536 #
CONF-8305137-1 ..... 04 p0570 N84-13758 #
CONF-8305143-1 ..... 05 p0660 N84-14340 #
CONF-8305165-SUMM ..... 12 p1910 N84-22442 #
CONF-8305187-2 ..... 21 p3495 N84-32152 #
CONF-8306102-1 ..... 02 p0300 N84-11967 #
CONF-8306105-1 ..... 02 p0201 N84-11307 #
CONF-8306110-3 ..... 04 p0614 N84-14056 #
CONF-8306110-4 ..... 07 p1082 N84-17038 #
CONF-8306115-1 ..... 05 p0764 N84-15009 #
CONF-8306116-1-REV ..... 04 p0605 N84-13994 #
CONF-8306120-1 ..... 03 p0455 N84-12997 #
CONF-8306121-2 ..... 03 p0381 N84-12484 #
CONF-8306121-3 ..... 03 p0382 N84-12485 #
CONF-8306121-5 ..... 08 p1165 N84-17585* #
CONF-8306122-1 ..... 03 p0414 N84-12709 #
CONF-8306125-1 ..... 03 p0436 N84-12862 #
CONF-8306127-1 ..... 04 p0598 N84-13944 #
CONF-8306132-1 ..... 05 p0676 N84-14447 #
CONF-8306138-1 ..... 05 p0656 N84-14314 #
CONF-8306141-1 ..... 10 p1482 N84-19686 #
CONF-8306142-1 ..... 07 p1076 N84-16997 #
CONF-8306143-1 ..... 08 p1152 N84-17500 #
CONF-8306163-1 ..... 10 p1590 N84-20418 #
CONF-8306165-1 ..... 10 p1462 N84-19550 #
CONF-8306195-1 ..... 20 p3150 N84-30004 #
CONF-8307101-1 ..... 04 p0544 N84-13585 #
CONF-8307102-1 ..... 04 p0597 N84-13942 #
CONF-8307103-1 ..... 05 p0755 N84-14956 #
CONF-8307103-2 ..... 04 p0602 N84-13972 #
CONF-8307104-1 ..... 07 p1094 N84-17113 #
CONF-8307104-2 ..... 07 p1094 N84-17114 #
CONF-8307104-3 ..... 07 p1093 N84-17111* #
CONF-8307104-4 ..... 07 p1094 N84-17112* #
CONF-8307106-1 ..... 07 p0971 N84-16292 #
CONF-8307110-1 ..... 10 p1595 N84-20453 #
CONF-8307111-1 ..... 11 p1719 N84-21210 #
CONF-8307112-1 ..... 11 p1655 N84-20801 #
CONF-8307112-2 ..... 15 p2412 N84-25480 #
CONF-8307121-1 ..... 22 p3660 N84-33203 #
CONF-8307122-2 ..... 22 p3629 N84-32995 #
CONF-8307991 ..... 04 p0595 N84-13929 #
CONF-8308102-1 ..... 03 p0404 N84-12643 #
CONF-8308104-1 ..... 03 p0419 N84-12738 #
CONF-8308106-7 ..... 04 p0555 N84-13653 #
CONF-8308108-1 ..... 03 p0373 N84-12430 #
CONF-8308110-4 ..... 04 p0571 N84-13760 #
CONF-8308110-5 ..... 04 p0571 N84-13764 #
CONF-8308112-1 ..... 04 p0609 N84-14017 #
CONF-8308112-2 ..... 03 p0436 N84-12863 #
CONF-8308112-3 ..... 04 p0541 N84-13562 #
CONF-8308114-1 ..... 03 p0381 N84-12483 #
CONF-8308114-2 ..... 04 p0542 N84-13571 #
CONF-8308115-2 ..... 08 p1182 N84-17700 #
CONF-8308116-1 ..... 03 p0350 N84-12276 #
CONF-8308117-1 ..... 04 p0564 N84-13718 #
CONF-8308117-2 ..... 04 p0564 N84-13717 #
CONF-8308120-1 ..... 03 p0368 N84-12396 #
CONF-8308123-1 ..... 04 p0614 N84-14051 #
CONF-8308124-1 ..... 04 p0560 N84-13692 #
CONF-8308125-1 ..... 04 p0491 N84-13220 #
CONF-8308125-2 ..... 04 p0597 N84-13938 #
CONF-8308125-4 ..... 09 p1397 N84-19122 #
CONF-8308127-1 ..... 04 p0583 N84-13848 #
CONF-8308130 ..... 21 p3497 N84-32166 #
CONF-8308132-1 ..... 06 p0923 N84-16003 #
CONF-8308132-2 ..... 07 p1083 N84-17044 #
CONF-8308133-1 ..... 06 p0925 N84-16014 #
CONF-8308136-1 ..... 06 p0879 N84-15718 #
CONF-8308136-2 ..... 08 p1246 N84-18143 #
CONF-8308144-1 ..... 11 p1717 N84-21200 #
CONF-8308148-1 ..... 11 p1758 N84-21479 #
CONF-8308153-1 ..... 11 p1717 N84-21199 #
CONF-8308154-1 ..... 10 p1457 N84-19515 #
CONF-8308155-1 ..... 11 p1746 N84-21392 #
CONF-8308165-1 ..... 19 p3009 N84-29073 #
CONF-8309100-1 ..... 06 p0811 N84-15280 #
CONF-8309103-1 ..... 01 p0151 N84-10990 #
CONF-8309103-3 ..... 02 p0293 N84-11919 #
CONF-8309103-4 ..... 02 p0296 N84-11944 #
CONF-8309103-7 ..... 03 p0448 N84-12946 #
CONF-8309103-8 ..... 04 p0605 N84-13995 #
CONF-8309103-9 ..... 04 p0542 N84-13567 #
CONF-8309103-10 ..... 04 p0614 N84-14055 #
CONF-8309104-1 ..... 02 p0210 N84-11374 #
CONF-8309111-1 ..... 01 p0075 N84-10491 #
CONF-8309115-1 ..... 02 p0205 N84-11334 #
CONF-8309118-1 ..... 07 p1011 N84-16557 #
CONF-8309118-3 ..... 07 p1010 N84-16553 #
CONF-8309118-6 ..... 10 p1501 N84-19808 #
CONF-8309118-7 ..... 10 p1501 N84-19811 #
CONF-8309118-8 ..... 15 p2340 N84-25045 #
CONF-8309118-10 ..... 21 p3410 N84-31626 #
CONF-8309123-1 ..... 02 p0196 N84-11272 #
CONF-8309130-4 ..... 08 p1182 N84-17701 #
CONF-8309133-2 ..... 04 p0494 N84-13241 #
CONF-8309134-1 ..... 03 p0390 N84-12541 #
CONF-8309135-1 ..... 03 p0386 N84-12513 #
CONF-8309135-2 ..... 04 p0536 N84-13522 #
CONF-8309135-3 ..... 04 p0583 N84-13850 #
CONF-8309135-4 ..... 04 p0545 N84-13588 #
CONF-8309136-1 ..... 03 p0437 N84-12864 #
CONF-8309137-1 ..... 03 p0450 N84-12957 #
CONF-8309137-2 ..... 04 p0590 N84-13902 #
CONF-8309137-3 ..... 04 p0607 N84-14008 #
CONF-8309141-1 ..... 04 p0605 N84-13992 #
CONF-8309142-1 ..... 04 p0608 N84-14015 #
CONF-8309144-1 ..... 03 p0421 N84-12754 #
CONF-8309144-2 ..... 03 p0368 N84-12399 #
CONF-8309144-4 ..... 04 p0599 N84-13952 #
CONF-8309144-5 ..... 04 p0599 N84-13953 #
CONF-8309145-1 ..... 04 p0542 N84-13568 #
CONF-8309147-1 ..... 04 p0608 N84-14013 #
CONF-8309149-1 ..... 04 p0507 N84-13323 #
CONF-8309150-1 ..... 04 p0560 N84-13690 #
CONF-8309150-2 ..... 05 p0701 N84-14597 #
CONF-8309154-1 ..... 04 p0578 N84-13810 #
CONF-8309155-1 ..... 04 p0540 N84-13553 #
CONF-8309155-2 ..... 04 p0540 N84-13555 #
CONF-8309156-1 ..... 04 p0597 N84-13941 #
CONF-8309156-2 ..... 04 p0596 N84-13936 #
CONF-8309156-13 ..... 08 p1230 N84-18041 #
CONF-8309158-1 ..... 04 p0541 N84-13559 #
CONF-8309159-1 ..... 04 p0586 N84-13868 #
CONF-8309160-1 ..... 04 p0554 N84-13648 #
CONF-8309162-1 ..... 04 p0529 N84-13481 #
CONF-8309162-2 ..... 07 p0994 N84-16444 #

CONF-8309165-1 ..... 04 p0585 N84-13863 #
CONF-8309166-1 ..... 04 p0538 N84-13538 #
CONF-8309167-2 ..... 06 p0890 N84-15785 #
CONF-8309169-1 ..... 06 p0916 N84-15954 #
CONF-8309170-1 ..... 06 p0806 N84-15255 #
CONF-8309170-2 ..... 05 p0693 N84-14553 #
CONF-8309170-3 ..... 06 p0862 N84-15615 #
CONF-8309170-4 ..... 06 p0806 N84-15254 #
CONF-8309170-5 ..... 05 p0694 N84-14554 #
CONF-8309170-6 ..... 11 p1634 N84-20684 #
CONF-8309170-7 ..... 20 p3158 N84-30054 #
CONF-8309172-2 ..... 05 p0763 N84-15006 #
CONF-8309172-3 ..... 05 p0763 N84-15007 #
CONF-8309172-4 ..... 09 p1415 N84-19262 #
CONF-8309172-5 ..... 09 p1415 N84-19261 #
CONF-8309173-1 ..... 05 p0755 N84-14950 #
CONF-8309176-1 ..... 06 p0940 N84-16105 #
CONF-8309183-1 ..... 07 p1090 N84-17087 #
CONF-8309184-1 ..... 07 p0994 N84-16445 #
CONF-8309185-1 ..... 09 p1379 N84-19009 #
CONF-8309188-1 ..... 11 p1746 N84-21396 #
CONF-8309191-1 ..... 10 p1565 N84-20253 #
CONF-8309193-1 ..... 12 p1915 N84-22477 #
CONF-8309205-1 ..... 14 p2224 N84-24345 #
CONF-8309207-1 ..... 14 p2225 N84-24354 #
CONF-8309212 ..... 21 p3368 N84-31369 #
CONF-8309214-1 ..... 14 p2244 N84-24472 #
CONF-8309225-1 ..... 19 p3112 N84-29775 #
CONF-8309226-1 ..... 19 p3103 N84-29713 #
CONF-8309229-1 ..... 20 p3163 N84-30087 #
CONF-8309237-1 ..... 21 p3451 N84-31898 #
CONF-8310102-1 ..... 03 p0441 N84-12899 #
CONF-8310104-8 ..... 10 p1596 N84-20458 #
CONF-8310108-1 ..... 03 p0369 N84-12400 #
CONF-8310111-1 ..... 03 p0353 N84-12296 #
CONF-8310111-4-REV-1 ..... 04 p0509 N84-13339 #
CONF-8310111-9 ..... 08 p1140 N84-17413 #
CONF-8310115-1 ..... 03 p0412 N84-12694 #
CONF-8310120-1 ..... 03 p0347 N84-12254 #
CONF-8310129-1 ..... 03 p0353 N84-12298 #
CONF-8310129-2 ..... 11 p1635 N84-20687 #
CONF-8310130-1 ..... 03 p0419 N84-12737 #
CONF-8310131-1 ..... 01 p0091 N84-10593 #
CONF-8310131-2 ..... 05 p0760 N84-14984 #
CONF-8310135-2 ..... 03 p0369 N84-12402 #
CONF-8310143-57 ..... 10 p1518 N84-19936 #
CONF-8310143-60 ..... 09 p1285 N84-18391 #
CONF-8310143-63 ..... 08 p1228 N84-18024 #
CONF-8310143-65 ..... 08 p1135 N84-17381 #
CONF-8310143-67 ..... 09 p1328 N84-18670 #
CONF-8310148-9 ..... 06 p0813 N84-15290 #
CONF-8310148-10 ..... 09 p1290 N84-18425 #
CONF-8310148-11 ..... 06 p0845 N84-15510 #
CONF-8310158-5 ..... 09 p1290 N84-18422 #
CONF-8310158-8 ..... 08 p1140 N84-17412 #
CONF-8310160-1 ..... 11 p1708 N84-21134 #
CONF-8310161-1 ..... 04 p0616 N84-14066 #
CONF-8310162-7 ..... 04 p0555 N84-13655 #
CONF-8310163-1 ..... 04 p0503 N84-13297 #
CONF-8310163-2 ..... 04 p0508 N84-13328 #
CONF-8310163-3 ..... 04 p0535 N84-13515 #
CONF-8310163-4 ..... 05 p0685 N84-14503 #
CONF-8310163-5 ..... 05 p0656 N84-14313 #
CONF-8310163-9 ..... 08 p1165 N84-17584 #
CONF-8310163-10 ..... 09 p1316 N84-18600* #
CONF-8310164-3 ..... 05 p0677 N84-14449 #
CONF-8310166-1 ..... 04 p0549 N84-13619 #
CONF-8310167-2 ..... 11 p1644 N84-20752 #
CONF-8310167-3 ..... 12 p1808 N84-21786 #
CONF-8310169-1 ..... 06 p0924 N84-16008 #
CONF-8310169-2 ..... 12 p1915 N84-22479 #
CONF-8310171-1 ..... 04 p0490 N84-13219 #
CONF-8310172-3 ..... 07 p0971 N84-16294 #
CONF-8310172-8 ..... 08 p1236 N84-18080 #
CONF-8310172-9 ..... 09 p1390 N84-19079 #
CONF-8310172-10 ..... 10 p1499 N84-19796 #
CONF-8310173-2 ..... 09 p1290 N84-18424 #
CONF-8310177-2 ..... 06 p0845 N84-15511 #
CONF-8310178-2 ..... 06 p0845 N84-15509 #
CONF-8310178-5 ..... 19 p3106 N84-29738 #
CONF-8310179-1 ..... 07 p0966 N84-16261 #
CONF-8310179-4 ..... 07 p0972 N84-16302 #
CONF-8310182-1 ..... 06 p0935 N84-16081 #
CONF-8310182-2 ..... 05 p0759 N84-14981 #
CONF-8310182-3 ..... 08 p1241 N84-18110 #
CONF-8310182-4 ..... 07 p1085 N84-17056 #
CONF-8310182-6 ..... 10 p1564 N84-20249 #
CONF-8310182-8 ..... 11 p1750 N84-21423 #
CONF-8310182-10 ..... 07 p1055 N84-16834 #
CONF-8310183-1 ..... 05 p0660 N84-14339 #
CONF-8310183-3 ..... 10 p1468 N84-19590 #
CONF-8310187-1 ..... 08 p1172 N84-17632 #
CONF-8310187-2 ..... 07 p1003 N84-16503 #
CONF-8310188-1 ..... 06 p0924 N84-16004 #
CONF-8310190-1 ..... 05 p0758 N84-14968 #
CONF-8310193-1 ..... 05 p0704 N84-14619 #
CONF-8310194-1 ..... 06 p0830 N84-15403 #
CONF-8310194-2 ..... 06 p0831 N84-15406 #
CONF-8310194-3 ..... 11 p1711 N84-21156 #
CONF-8310196-1 ..... 06 p0855 N84-15569 #
CONF-8310198-1 ..... 07 p0975 N84-16320 #
CONF-8310198-3 ..... 07 p0976 N84-16327 #
CONF-8310199-2 ..... 07 p1034 N84-16706 #
CONF-8310199-3 ..... 08 p1179 N84-17679 #
CONF-8310201-1 ..... 06 p0802 N84-15226 #
CONF-8310201-2 ..... 08 p1126 N84-17317 #
CONF-8310203-1 ..... 05 p0656 N84-14312 #
CONF-8310204-1 ..... 06 p0879 N84-15719 #
CONF-8310205-2 ..... 07 p0976 N84-16323 #
CONF-8310205-3 ..... 08 p1135 N84-17378 #
CONF-8310205-4 ..... 11 p1635 N84-20690 #
CONF-8310205-6 ..... 10 p1461 N84-19538 #
CONF-8310205-7 ..... 21 p3415 N84-31657 #
CONF-8310205-8 ..... 14 p2130 N84-23769 #
CONF-8310205-9 ..... 19 p2995 N84-29980 #
CONF-8310205-10 ..... 21 p3368 N84-31367 #
CONF-8310207-1 ..... 07 p1072 N84-16968 #
CONF-8310208-1 ..... 06 p0898 N84-15831 #
CONF-8310211-1 ..... 07 p1055 N84-16835 #
CONF-8310211-2 ..... 10 p1505 N84-19837 #
CONF-8310211-3 ..... 11 p1704 N84-21109 #
CONF-8310212-1 ..... 07 p0960 N84-16223 #
CONF-8310213-1 ..... 07 p1055 N84-16836 #
CONF-8310217 ..... 10 p1482 N84-19685 #
CONF-8310220-1 ..... 08 p1182 N84-17699 #
CONF-8310220-2 ..... 11 p1676 N84-20935 #
CONF-8310220-3 ..... 11 p1675 N84-20932 #
CONF-8310221-1 ..... 08 p1197 N84-17807 #
CONF-8310225-1 ..... 11 p1629 N84-20663 #
CONF-8310227-2 ..... 12 p1903 N84-22393 #
CONF-8310229-1 ..... 10 p1537 N84-20071 #
CONF-8310229-2 ..... 10 p1597 N84-20467 #
CONF-8310229-3 ..... 11 p1737 N84-21334 #
CONF-8310229-4 ..... 10 p1586 N84-20398 #
CONF-8310229-7 ..... 11 p1683 N84-20984 #
CONF-8310229-8 ..... 14 p2176 N84-24037 #
CONF-8310229-9 ..... 14 p2229 N84-24367 #
CONF-8310229-10 ..... 19 p3108 N84-29748 #
CONF-8310240-3 ..... 11 p1675 N84-20933 #
CONF-8310241-1 ..... 10 p1457 N84-19514 #
CONF-8310243-1 ..... 10 p1593 N84-20441 #
CONF-8310244-1 ..... 10 p1593 N84-20440 #
CONF-8310246-1 ..... 11 p1746 N84-21393 #
CONF-8310247-1 ..... 18 p2945 N84-28675 #
CONF-8310260-1 ..... 19 p3116 N84-29802 #
CONF-8310268-1 ..... 20 p3180 N84-30202 #
CONF-8310268-2 ..... 21 p3423 N84-31712 #
CONF-8311100-REV-1 ..... 20 p3241 N84-30577 #
CONF-8311100-1 ..... 06 p0882 N84-15737 #
CONF-8311104-1 ..... 07 p0981 N84-16358 #
CONF-8311104-2 ..... 15 p2337 N84-25033 #
CONF-8311114-1 ..... 11 p1712 N84-21158 #
CONF-8311115-1 ..... 11 p1710 N84-21148 #
CONF-8311116-1 ..... 10 p1472 N84-19612 #
CONF-8311120-1 ..... 11 p1757 N84-21472 #
CONF-8311130-1 ..... 11 p1635 N84-20692 #
CONF-8311130-2 ..... 11 p1634 N84-20680 #
CONF-8311134-1 ..... 11 p1647 N84-20773 #
CONF-8311134-1 ..... 20 p3181 N84-30210 #
CONF-8311134-5 ..... 20 p3181 N84-30206 #
CONF-8311137-1 ..... 13 p1994 N84-22939 #
CONF-8311140-1 ..... 15 p2405 N84-25436 #
CONF-8311144-1 ..... 20 p3296 N84-30926 #
CONF-8311146-1 ..... 19 p3030 N84-29216 #
CONF-8311146-3 ..... 18 p2847 N84-28080 #
CONF-8312455-1 ..... 07 p0972 N84-16301 #
CONF-8403100-1 ..... 21 p3502 N84-32199 #
CONF-8403100-2 ..... 18 p2933 N84-28601 #
CONF-8403100-3 ..... 21 p3502 N84-32198 #
CONF-8403100-5 ..... 20 p3179 N84-30194 #
CONF-8403101-1 ..... 18 p2930 N84-28581 #
CONF-8403101-6 ..... 20 p3299 N84-30947 #
CONF-8403102-1 ..... 18 p2927 N84-28564 #
CONF-8403104-1 ..... 18 p2941 N84-28654 #
CONF-8403112-1 ..... 20 p3293 N84-30905 #
CONF-8403112-2 ..... 20 p3294 N84-30915 #
CONF-8403112-3 ..... 20 p3296 N84-30929 #
CONF-8403116-1 ..... 20 p3179 N84-30190 #
CONF-8403118-1 ..... 20 p0247 N84-30607 #
CONF-8403119-2 ..... 22 p3626 N84-32975 #
CONF-8403123-1 ..... 21 p3494 N84-32142 #
CONF-8403130-1 ..... 21 p3496 N84-32159 #
CONF-8403132-1 ..... 22 p3665 N84-33236 #
CONF-8403132-2 ..... 22 p3667 N84-33246 #
CONF-8404103-1 ..... 13 p1965 N84-22764 #
CONF-8404103-2 ..... 20 p3154 N84-30028 #
CONF-8404104-1 ..... 14 p2148 N84-23869 #
CONF-8404104-2 ..... 20 p3198 N84-30312 #
CONF-8404104-3 ..... 21 p3401 N84-31575 #
CONF-8404106-1 ..... 13 p2048 N84-23288 #
CONF-8404106-2 ..... 19 p3112 N84-29774 #
CONF-8404109-2 ..... 19 p3018 N84-29138 #

CONF-8404110-1 ..... 15 p2339 N84-25043 #
CONF-8404110-3 ..... 21 p3507 N84-32216 #
CONF-8404110-6 ..... 22 p3664 N84-33231 #
CONF-8404116-1 ..... 19 p3002 N84-29026 #
CONF-8404116-2 ..... 20 p3197 N84-30303 #
CONF-8404119-1 ..... 20 p3295 N84-30923 #
CONF-8404119-2 ..... 20 p3311 N84-31026 #
CONF-8404119-4 ..... 23 p3831 N84-34299 #
CONF-8404120-2 ..... 18 p2945 N84-28677 #
CONF-8404122-1 ..... 19 p3003 N84-29029 #
CONF-8404123 ..... 23 p3727 N84-33616 #
CONF-8404123-2 ..... 21 p3393 N84-31533 #
CONF-8404123-3 ..... 21 p3406 N84-31607 #
CONF-8404123-5 ..... 21 p3423 N84-31714 #
CONF-8404123-6 ..... 21 p3414 N84-31649 #
CONF-8404124-1 ..... 18 p2847 N84-28078 #
CONF-8404124-2 ..... 18 p2847 N84-28079 #
CONF-8404124-3 ..... 20 p3279 N84-30813 #
CONF-8404124-4 ..... 20 p3194 N84-30288 #
CONF-8404124-5 ..... 21 p3499 N84-32175 #
CONF-8404124-7 ..... 21 p3410 N84-31632 #
CONF-8404135-3 ..... 21 p3361 N84-31321 #
CONF-8404136-1 ..... 20 p3315 N84-31053 #
CONF-8404142-1 ..... 21 p3394 N84-31538 #
CONF-8404143-2 ..... 20 p3293 N84-30906 #
CONF-8404143-3 ..... 21 p3495 N84-32151 #
CONF-8404143-4 ..... 22 p3653 N84-33158 #
CONF-8404143-5 ..... 21 p3494 N84-32140 #
CONF-8404152-1 ..... 20 p3277 N84-30803 #
CONF-8404154-1 ..... 21 p3495 N84-32146 #
CONF-8404158-1 ..... 20 p3279 N84-30815 #
CONF-8404160-1 ..... 20 p3200 N84-30323 #
CONF-8404165-1 ..... 20 p3274 N84-30787 #
CONF-8404166-1 ..... 21 p3505 N84-32213 #
CONF-8405122-1 ..... 22 p3547 N84-32456 #
CONF-8405126-1 ..... 15 p2395 N84-25367 #
CONF-8405128-1 ..... 15 p2396 N84-25372 #
CONF-8405131-1 ..... 20 p3274 N84-30785 #
CONF-8405131-2 ..... 19 p3079 N84-29540 #
CONF-8405131-4 ..... 20 p3273 N84-30780 #
CONF-8405131-5 ..... 20 p3277 N84-30804 #
CONF-8405139-2 ..... 18 p2945 N84-28676 #
CONF-8405147-1 ..... 20 p3267 N84-30727 #
CONF-8405148-1 ..... 20 p3315 N84-31054 #
CONF-8405151-2 ..... 21 p3466 N84-31977 #
CONF-8405153-1 ..... 21 p3423 N84-31713 #
CONF-8405153-2 ..... 22 p3596 N84-32772 #
CONF-8405153-3 ..... 22 p3626 N84-32976 #
CONF-8405155-1 ..... 21 p3526 N84-32339 #
CONF-8405155-2 ..... 21 p3525 N84-32329 #
CONF-8405158-1 ..... 21 p3410 N84-31629 #
CONF-8405161-1 ..... 20 p3198 N84-30314 #
CONF-8405163-2 ..... 20 p3306 N84-31000 #
CONF-8405163-3 ..... 20 p3306 N84-31001 #
CONF-8405163-5 ..... 20 p3307 N84-31005 #
CONF-8405164-2 ..... 21 p3360 N84-31317 #
CONF-8405172-1 ..... 22 p3675 N84-33300 #
CONF-8405176-1 ..... 21 p3372 N84-31395 #
CONF-8405177-1 ..... 21 p3494 N84-32139 #
CONF-8405180-1 ..... 21 p3523 N84-32322 #
CONF-8405180-2 ..... 22 p3677 N84-33311 #
CONF-8405180-4 ..... 23 p3839 N84-34352 #
CONF-8405183-1 ..... 20 p3166 N84-30104 #
CONF-8405184-1 ..... 21 p3519 N84-32293 #
CONF-8405190-1 ..... 22 p3556 N84-32518 #
CONF-8405193-21 ..... 23 p3823 N84-34245 #
CONF-8405194-1 ..... 22 p3642 N84-33090 #
CONF-8405199 ..... 22 p3618 N84-32928 #
CONF-8406100-1 ..... 20 p3180 N84-30199 #
CONF-8406100-2 ..... 20 p3181 N84-30211 #
CONF-8406101-1 ..... 20 p3203 N84-30346 #
CONF-8406103-1 ..... 20 p3166 N84-30107 #
CONF-8406113-2 ..... 20 p3290 N84-30889 #
CONF-8406113-3 ..... 22 p3646 N84-33122 #
CONF-8406118-1 ..... 21 p3469 N84-31989 #
CONF-8406119-2 ..... 21 p3395 N84-31542 #
CONF-8406120-1 ..... 21 p3401 N84-31577 #
CONF-8406126-1 ..... 21 p3413 N84-31645 #
CONF-8406131-1 ..... 21 p3498 N84-32167 #
CONF-8406131-2 ..... 21 p3402 N84-31582 #
CONF-8406131-3 ..... 21 p3402 N84-31583 #
CONF-8406135-1 ..... 21 p3415 N84-31658 #
CONF-8406137-1 ..... 22 p3589 N84-32735 #
CONF-8406137-13 ..... 22 p3602 N84-32818 #
CONF-8406137-14 ..... 23 p3755 N84-33802 #
CONF-8406138-1 ..... 21 p3371 N84-31393 #
CONF-8406139-1 ..... 22 p3643 N84-33099 #
CONF-8406147-1 ..... 23 p3818 N84-34210 #
CONF-8406148-1 ..... 22 p3629 N84-32993 #
CONF-8406150-1 ..... 23 p3799 N84-34086* #
CONF-8406151-1 ..... 23 p3839 N84-34353 #
CONF-82101560-1 ..... 01 p0046 N84-10295 #

CONTRIB-82-559-J ..... 12 p1829 N84-21927* #
CONTRIB-336 ..... 23 p3736 N84-33675* #
CONTRIB-574 ..... 09 p1345 N84-18788 #
CONTRIB-605 ..... 04 p0570 N84-13753 #
CONTRIB-634 ..... 04 p0556 N84-13661 #
CONTRIB-670 ..... 11 p1692 N84-21036 #
CONTRIB-766 ..... 09 p1344 N84-18782* #
CONTRIB-3996 ..... 02 p0248 N84-11622* #
CONTRIB-4120 ..... 17 p2667 N84-27005* #

COO-1195-477 ..... 04 p0523 N84-13437 #
COO-1195-478 ..... 04 p0581 N84-13837 #
COO-1367-147 ..... 01 p0046 N84-10297 #
COO-1599-233 ..... 03 p0401 N84-12625 #
COO-1599-234 ..... 03 p0402 N84-12627 #
COO-1599-235-PT-1 ..... 04 p0571 N84-13761 #
COO-1599-235-PT-3 ..... 03 p0401 N84-12625 #
COO-1599-235-PT-4 ..... 03 p0402 N84-12627 #
COO-2009-148 ..... 20 p3293 N84-30903 #
COO-2218-295 ..... 04 p0607 N84-14006 #
COO-2218-296 ..... 10 p1586 N84-20397 #
COO-2271-107 ..... 21 p3495 N84-32153 #
COO-2313-13 ..... 07 p0975 N84-16317 #
COO-2313-14 ..... 22 p3556 N84-32517 #
COO-2383-0093 ..... 08 p1222 N84-17978 #
COO-2383-0096 ..... 11 p1716 N84-21195 #
COO-2383-0102 ..... 19 p3112 N84-29773 #
COO-2383-0104 ..... 22 p3641 N84-33087 #
COO-2456-85 ..... 21 p3500 N84-32185 #
COO-2718-11 ..... 11 p1730 N84-21287 #
COO-2754-9 ..... 10 p1468 N84-19591 #
COO-3166-34 ..... 21 p3367 N84-31360 #
COO-4938-5 ..... 10 p1453 N84-19489 #
COO-10591-4 ..... 04 p0508 N84-13327 #

CP-G204249 ..... 07 p1022 N84-16628* #

CP-23 ..... 21 p3358 N84-31296 #
CP-00673 ..... 15 p2408 N84-25454 #

CPAM-160 ..... 01 p0132 N84-10865 #
CPAM-174 ..... 07 p1061 N84-16880 #
CPAM-175 ..... 07 p1061 N84-16879 #
CPAM-185 ..... 15 p2399 N84-25394 #

CPIA-PUBL-263 ..... 05 p0644 N84-14236 #
CPIA-PUBL-382 ..... 07 p0981 N84-16355 #
CPIA-PUBL-383-VOL-1 ..... 13 p1943 N84-22632 #
CPIA-PUBL-384-VOL-1 ..... 13 p1941 N84-22619 #
CPIA-PUBL-390-VOL-1 ..... 20 p3135 N84-29906 #
CPIA-PUBL-390-VOL-2 ..... 20 p3140 N84-29939 #
CPIA-PUBL-400 ..... 21 p3372 N84-31400 #
CPIA-PUBL-401 ..... 21 p3354 N84-31276 #

CPL83-4 ..... 11 p1702 N84-21100 #

CR-R-83005 ..... 09 p1364 N84-18909* #
CR-R-83036 ..... 07 p1000 N84-16488* #

CR-84.009 ..... 18 p2853 N84-28114 #

CRC-APRAC-CAPA-13-76 ..... 09 p1343 N84-18772 #
CRC-APRAC-CAPA-17/19-80 ..... 14 p2151 N84-23890 #

CRC-APRAC-CAPM-48-83 ..... 10 p1548 N84-20148 #

CRC-APRAC/CAPA-17/19-80 ..... 11 p1661 N84-20839 #

CRC-TR-83-6 ..... 01 p0119 N84-10772 #
CRC-TR-83-7 ..... 05 p0728 N84-14783 #
CRC-TR-83-11 ..... 07 p1052 N84-16814 #

CRC-528 ..... 06 p0813 N84-15289 #
CRC-530 ..... 04 p0509 N84-13338 #
CRC-532 ..... 01 p0052 N84-10336 #
CRC-533 ..... 06 p0812 N84-15288 #
CRC-534 ..... 10 p1433 N84-19366 #
CRC-537 ..... 10 p1470 N84-19602 #
CRC-1375 ..... 21 p3382 N84-31458

CRDC-CR-84018 ..... 13 p2043 N84-23257 #

CRIF-MC-76 ..... 07 p1012 N84-16569 #

CRIF-MT-156 ..... 07 p1017 N84-16597 #
CRIF-MT-157 ..... 07 p1017 N84-16598 #
CRIF-MT-158 ..... 07 p1017 N84-16601 #
CRIF-MT-159 ..... 21 p3415 N84-31655 #

CRINC-FRL-426-2 ..... 23 p3690 N84-33387* #
CRINC-FRL-467-2 ..... 01 p0002 N84-10017* #

CRINC/RSL-TR-331-32 ..... 15 p2373 N84-25238 #
CRINC/RSL-TR-331-37 ..... 15 p2321 N84-24935 #
CRINC/RSL-TR-419-1 ..... 01 p0064 N84-10421 #
CRINC/RSL-TR-419-2 ..... 20 p3173 N84-30148 #

CRJP-248 ..... 01 p0116 N84-10751 #
CRJP-249 ..... 08 p1203 N84-17841 #

CRPE-NT-93-VOL-1 ..... 05 p0705 N84-14624 #
CRPE-NT-94-VOL-2 ..... 05 p0705 N84-14625 #
CRPE-NT-110 ..... 13 p2012 N84-23054 #
CRPE-NT-112-PT-1 ..... 13 p2012 N84-23055 #
CRPE-NT-113 ..... 13 p1984 N84-22879 #
CRPE-NT-114 ..... 13 p2012 N84-23049 #
CRPE-NT-121 ..... 13 p1984 N84-22881 #
CRPE-NT-122 ..... 13 p1984 N84-22880 #
CRPE-NT-125 ..... 13 p2006 N84-23016 #
CRPE-NT-127 ..... 13 p2029 N84-23158 #

CRREL-MONO-83-1 ..... 03 p0401 N84-12619 #
CRREL-MONO-84-2 ..... 24 p3934 N84-34903 #

CRREL-SP-84-1 ..... 16 p2510 N84-26106 #

CRREL-SR-83-10 ..... 08 p1191 N84-17762 #
CRREL-SR-83-12 ..... 08 p1187 N84-17737 #
CRREL-SR-83-13 ..... 08 p1187 N84-17736 #
CRREL-SR-83-14 ..... 07 p1041 N84-16747 #
CRREL-SR-83-17 ..... 03 p0411 N84-12690 #
CRREL-SR-83-19 ..... 03 p0401 N84-12618 #
CRREL-SR-83-20 ..... 03 p0410 N84-12684 #
CRREL-SR-83-23 ..... 06 p0810 N84-15272 #
CRREL-SR-83-24 ..... 09 p1350 N84-18818 #
CRREL-SR-83-27 ..... 07 p0986 N84-16384 #
CRREL-SR-83-32 ..... 09 p1382 N84-19026 #

CRREL-83-12 ..... 08 p1160 N84-17549 #
CRREL-83-14 ..... 08 p1172 N84-17631 #
CRREL-83-17 ..... 07 p1040 N84-16746 #
CRREL-83-18 ..... 03 p0358 N84-12331 #
CRREL-83-21 ..... 08 p1196 N84-17798 #
CRREL-83-22 ..... 08 p1177 N84-17671 #
CRREL-83-23 ..... 06 p0861 N84-15609 #
CRREL-83-26 ..... 09 p1256 N84-18198 #
CRREL-83-27 ..... 09 p1325 N84-18658 #
CRREL-83-33 ..... 15 p2317 N84-24908 #
CRREL-84-2 ..... 16 p2534 N84-26268 #
CRREL-84-6 ..... 15 p2287 N84-24720 #
CRREL-84-8 ..... 24 p3935 N84-34908 #
CRREL-84-9 ..... 24 p3935 N84-34907 #
CRREL-84-10 ..... 24 p3900 N84-34696 #

CRSC-83-2 ..... 02 p0237 N84-11553* #
CRSC-83-3 ..... 14 p2167 N84-23976* #
CRSC-84-1 ..... 14 p2168 N84-23982* #
CRSC-84-2 ..... 14 p2168 N84-23983* #

CS-TR-1257 ..... 06 p0895 N84-15812 #
CS-TR-1336 ..... 15 p2336 N84-25025 #
CS-TR-1339 ..... 15 p2398 N84-25386 #
CS-TR-1340 ..... 15 p2400 N84-25404 #
CS-TR-1343 ..... 15 p2398 N84-25385 #
CS-TR-1344 ..... 15 p2407 N84-25452 #
CS-TR-1354 ..... 15 p2397 N84-25384 #
CS-TR-1358 ..... 14 p2205 N84-24234 #
CS-TR-1380 ..... 22 p3646 N84-33118 #
CS-TR-1381 ..... 19 p3042 N84-29302 #
CS-TR-1388 ..... 22 p3640 N84-33079 #
CS-TR-1401 ..... 22 p3643 N84-33098 #

CS-1983-1 ..... 09 p1384 N84-19039 #

CSC-DDN-TE-1 ..... 07 p1084 N84-17049 #
CSC-DDN-TE-2 ..... 07 p1084 N84-17048 #

CSC-STD-001-83 ..... 18 p2917 N84-28498 #

CSC-1023/00-FIN ..... 18 p2921 N84-28527 #

CSC/TM-84/6059 ..... 22 p3539 N84-32404* #
CSC/TM-84/6075 ..... 19 p3039 N84-29276* #
CSC/TM-84/6083 ..... 22 p3539 N84-32405* #

CSC/TR-83/6003 ..... 06 p0847 N84-15526 #

CSD-TR-433 ..... 01 p0119 N84-10770 #
CSD-TR-434 ..... 17 p2753 N84-27476 #
CSD-TR-460 ..... 12 p1877 N84-22231 #

CSD-83-1 ..... 09 p1309 N84-18558 #

CSDL-P-1915 ..... 21 p3464 N84-31957* #

CSDL-R-1598-VOL-1 ..... 09 p1273 N84-18311 #
CSDL-R-1598-VOL-2 ..... 09 p1273 N84-18312 #
CSDL-R-1647 ..... 01 p0007 N84-10044 #
CSDL-R-1648-VOL-1 ..... 15 p2282 N84-24703 #
CSDL-R-1648-VOL-2 ..... 15 p2282 N84-24704 #
CSDL-R-1694 ..... 16 p2446 N84-25690 #
CSDL-R-1695 ..... 17 p2762 N84-27542 #
CSDL-R-1717 ..... 23 p3692 N84-33396* #
CSDL-R-1725 ..... 21 p3523 N84-32317* #

CSDL-T-809 ..... 14 p2130 N84-23768 #
CSDL-T-811 ..... 05 p0845 N84-14243 #

CSI-83-12-01 ..... 13 p1975 N84-22621 #

CSIE-83-10 ..... 10 p1553 N84-20181 #
CSIE-83-13 ..... 10 p1555 N84-20190 #
CSIE-83-14 ..... 10 p1555 N84-20189 #
CSIE-83-15 ..... 10 p1555 N84-20188 #
CSIE-83-16 ..... 15 p2384 N84-25299 #

CSIF-RR-553 ..... 04 p0543 N84-13579 #

CSIR-BRR-573 ..... 04 p0505 N84-13311 #

CSIR-CENG-413 ..... 04 p0493 N84-13236 #
CSIR-CENG-423 ..... 04 p0493 N84-13235 #
CSIR-CENG-424 ..... 07 p0969 N84-16278 #
CSIR-CENG-432 ..... 04 p0493 N84-13234 #

CSIR-ELEK-249 ..... 04 p0566 N84-13733 #

CSIR-ME-452 ..... 04 p0532 N84-13496 #
CSIR-ME-1465-PT-3 ..... 10 p1471 N84-19604 #
CSIR-ME-1763 ..... 04 p0536 N84-13535 #
CSIR-ME-1778 ..... 11 p1632 N84-20669 #
CSIR-ME-1780 ..... 07 p1015 N84-16584 #

CSIR-NBRI-SR-BOU-60 ..... 04 p0566 N84-13734 #

CSIR-NIAST-82/57 ..... 04 p0524 N84-13444 #
CSIR-NIAST-82/72 ..... 04 p0479 N84-13156 #

CSIR-PERS-303 ..... 04 p0573 N84-13776 #
CSIR-PERS-339 ..... 04 p0573 N84-13776 #

CSIR-R/NIAST-15 ..... 11 p1651 N84-20778 #

CSIR-RME-465 ..... 11 p1639 N84-20711 #

CSIR-RR-388/1-PT-1 ..... 04 p0532 N84-13496 #
CSIR-RR-388/2-PT-2 ..... 04 p0532 N84-13497 #
CSIR-RR-581 ..... 13 p1988 N84-22905 #

CSIR-S-267 ..... 04 p0577 N84-13806 #
CSIR-S-281 ..... 11 p1639 N84-20717 #
CSIR-S-285 ..... 05 p0717 N84-14695 #
CSIR-S-325 ..... 09 p1343 N84-18775 #

CSIR-SR-CHEM-261 ..... 06 p0796 N84-15188 #

CSIR-SR-MAG-3 ..... 07 p1032 N84-16693 #

CSIR-SR-283 ..... 04 p0493 N84-13233 #

CSIR-SWISK-31 ..... 07 p1094 N84-17115 #
CSIR-SWISK-32 ..... 07 p1059 N84-16861 #

CSIR-T/SEA-8134 ..... 04 p0577 N84-13805 #
CSIR-T/SEA-8207 ..... 04 p0616 N84-14064 #

CSIR-TECH-GUIDE-K63 ..... 11 p1628 N84-20653 #

CSIR-TR-RF/6/81 ..... 04 p0578 N84-13814 #

CSIR-TR-83 ..... 04 p0591 N84-13904 #

CSIR-TRANS-1640 ..... 08 p1141 N84-17420 #
CSIR-TRANS-1643 ..... 01 p0152 N84-10999 #
CSIR-TRANS-1646 ..... 01 p0048 N84-10312 #
CSIR-TRANS-1647 ..... 01 p0029 N84-10185 #
CSIR-TRANS-1649 ..... 01 p0048 N84-10311 #
CSIR-TRANS-1658 ..... 01 p0128 N84-10838 #
CSIR-TRANS-1679 ..... 01 p0039 N84-10250 #
CSIR-TRANS-1683 ..... 01 p0030 N84-10190 #
CSIR-TRANS-1685 ..... 01 p0152 N84-11000 #
CSIR-TRANS-1686 ..... 01 p0049 N84-10314 #
CSIR-TRANS-1687 ..... 01 p0056 N84-10368 #
CSIR-TRANS-1688 ..... 01 p0056 N84-10367 #
CSIR-TRANS-1689 ..... 01 p0036 N84-10225 #
CSIR-TRANS-1693 ..... 08 p1140 N84-17418 #
CSIR-TRANS-1694 ..... 08 p1140 N84-17416 #
CSIR-TRANS-1700 ..... 08 p1141 N84-17419 #
CSIR-TRANS-1701 ..... 08 p1185 N84-17724 #
CSIR-TRANS-1702 ..... 08 p1140 N84-17417 #
CSIR-TRANS-1704 ..... 08 p1130 N84-17349 #
CSIR-TRANS-1707 ..... 06 p0813 N84-15294 #
CSIR-TRANS-1708 ..... 06 p0805 N84-15243 #
CSIR-TRANS-1709 ..... 06 p0813 N84-15293 #
CSIR-TRANS-1718 ..... 21 p3375 N84-31420 #
CSIR-TRANS-1719 ..... 21 p3376 N84-31421 #
CSIR-TRANS-1723 ..... 21 p3504 N84-32203 #
CSIR-TRANS-1724 ..... 21 p3443 N84-31841 #
CSIR-TRANS-1725 ..... 21 p3370 N84-31380 #
CSIR-TRANS-1726 ..... 21 p3443 N84-31842 #
CSIR-TRANS-1728 ..... 21 p3375 N84-31418 #
CSIR-TRANS-1730 ..... 22 p3563 N84-32504 #

CSIR-TRANS-1731 ..... 21 p3518 N84-32284 #
CSIR-TRANS-1734 ..... 21 p3375 N84-31419 #
CSIR-TRANS-1735 ..... 22 p3552 N84-32492
CSIR-TRANS-1736 ..... 22 p3563 N84-32561
CSIR-TRANS-1737 ..... 23 p3829 N84-34288
CSIR-TRANS-1738 ..... 22 p3558 N84-32533
CSIR-TRANS-1739 ..... 22 p3552 N84-32490
CSIR-TRANS-1740 ..... 22 p3552 N84-32489
CSIR-TRANS-1741 ..... 22 p3552 N84-32491
CSIR-TRANS-1742 ..... 22 p3557 N84-32525
CSIR-TRANS-1743 ..... 22 p3557 N84-32526
CSIR-TRANS-1744 ..... 22 p3563 N84-32562
CSIR-TRANS-1745 ..... 22 p3661 N84-33206
CSIR-TRANS-1746 ..... 22 p3661 N84-33205
CSIR-TRANS-1747 ..... 22 p3557 N84-32527
CSIR-TRANS-1748 ..... 22 p3552 N84-32493
CSIR-TRANS-1749 ..... 22 p3558 N84-32528
CSIR-TRANS-1750 ..... 22 p3603 N84-32821
CSIR-TRANS-1751 ..... 22 p3553 N84-32494
CSIR-TRANS-1752 ..... 22 p3661 N84-33207
CSIR-TRANS-1753 ..... 23 p3829 N84-34289

CSIR-TSD-0005/82 ..... 09 p1291 N84-18431 #
CSIR-TSD-0008/82 ..... 08 p1167 N84-17600 #

CSIR-TWISK-267 ..... 04 p0586 N84-13873 #
CSIR-TWISK-270 ..... 04 p0586 N84-13874 #
CSIR-TWISK-271 ..... 04 p0587 N84-13877 #
CSIR-TWISK-272 ..... 04 p0587 N84-13876 #
CSIR-TWISK-273 ..... 07 p1060 N84-16868 #
CSIR-TWISK-274 ..... 04 p0587 N84-13875 #
CSIR-TWISK-275 ..... 04 p0591 N84-13903 #
CSIR-TWISK-276 ..... 04 p0587 N84-13878 #
CSIR-TWISK-279 ..... 07 p1053 N84-16822 #
CSIR-TWISK-280 ..... 07 p1059 N84-16867 #
CSIR-TWISK-281 ..... 07 p1032 N84-16692 #
CSIR-TWISK-282 ..... 07 p1059 N84-16866 #
CSIR-TWISK-283 ..... 13 p2031 N84-23171 #
CSIR-TWISK-285 ..... 07 p1049 N84-16794 #
CSIR-TWISK-286 ..... 07 p1057 N84-16844 #
CSIR-TWISK-287 ..... 11 p1712 N84-21162 #
CSIR-TWISK-288 ..... 07 p1059 N84-16865 #
CSIR-TWISK-290 ..... 07 p1059 N84-16864 #
CSIR-TWISK-291 ..... 07 p1059 N84-16863 #
CSIR-TWISK-292 ..... 11 p1718 N84-21205 #
CSIR-TWISK-293 ..... 07 p1059 N84-16862 #
CSIR-TWISK-294 ..... 15 p2400 N84-25403 #
CSIR-TWISK-295 ..... 11 p1712 N84-21161 #
CSIR-TWISK-296 ..... 11 p1712 N84-21160 #
CSIR-TWISK-298 ..... 11 p1712 N84-21159 #

CSIR-1682 ..... 01 p0042 N84-10269 #
CSIR-1684 ..... 01 p0030 N84-10189 #
CSIR-1690 ..... 01 p0049 N84-10313 #
CSIR-1712 ..... 06 p0804 N84-15242 #

CSIRO-TP-3/1-35(1983) ..... 10 p1533 N84-20040 #

CSL-TN-83-231 ..... 09 p1368 N84-18931 #
CSL-TN-225 ..... 01 p0119 N84-10772 #

CSMI/TR-83-01 ..... 04 p0579 N84-13817 #

CSSA-ASTRO-84-04 ..... 16 p2582 N84-26557* #
CSSA-ASTRO-84-06 ..... 11 p1759 N84-21480* #

CSTR-545 ..... 24 p3951 N84-35021 #
CSTR-548 ..... 24 p3952 N84-35022 #

CS84-BMDSC-0018 ..... 24 p3859 N84-34461* #
CS84004-R ..... 17 p2754 N84-27479 #
CS830010 ..... 11 p1707 N84-21127 #

CTH-MATH-1983-10 ..... 13 p2036 N84-23210 #
CTH-MATH-1983-11 ..... 14 p2219 N84-24314 #
CTH-MATH-1983-12-PREPRINT ..... 03 p0426 N84-12792 #
CTH-MATH-1983-13-PREPRINT ..... 03 p0426 N84-12793 #
CTH-MATH-1983-15 ..... 13 p2035 N84-23198 #
CTH-MATH-1983-16-PREPRINT ..... 13 p2034 N84-23189 #
CTH-MATH-1983-17 ..... 13 p2037 N84-23212 #
CTH-MATH-1983-18 ..... 07 p1068 N84-16933 #
CTH-MATH-1983-19 ..... 14 p2215 N84-24306 #
CTH-MATH-1983-20 ..... 14 p2215 N84-24307 #
CTH-MATH-1983-21 ..... 07 p1066 N84-16937 #
CTH-MATH-1983-22 ..... 17 p2761 N84-27538 #
CTH-MATH-1983-23 ..... 17 p2759 N84-27520 #
CTH-MATH-1983-24 ..... 13 p2037 N84-23218 #
CTH-MATH-1983-25 ..... 17 p2761 N84-27540 #
CTH-MATH-1983-26 ..... 17 p2760 N84-27529 #
CTH-MATH-1983-27 ..... 17 p2760 N84-27530 #
CTH-MATH-1983-28 ..... 17 p2762 N84-27541 #
CTH-MATH-1983-30 ..... 13 p2037 N84-23213 #
CTH-MATH-1983-31 ..... 17 p2759 N84-27522 #
CTH-MATH-1983-82 ..... 13 p1991 N84-22926 #
CTH-MATH-1984-1 ..... 13 p2041 N84-23246 #
CTH-MATH-1984-2 ..... 19 p3094 N84-29648 #
CTH-MATH-1984-03 ..... 19 p3094 N84-29649 #
CTH-MATH-1984-04 ..... 19 p3090 N84-29622 #
CTH-MATH-1984-05 ..... 19 p3090 N84-29623 #
CTH-MATH-1984-06 ..... 19 p3091 N84-29624 #
CTH-MATH-1984-07 ..... 19 p3091 N84-29625 #
CTH-MATH-1984-08 ..... 23 p3818 N84-34214 #
CTH-MATH-1984-09 ..... 19 p3095 N84-29654 #
CTH-MATH-1984-10 ..... 19 p3054 N84-29439 #
CTH-MATH-1984-11 ..... 23 p3819 N84-34215 #
CTH-MATH-1984-12 ..... 23 p3820 N84-34228 #
CTH-MATH-196314-PT-3 ..... 13 p2034 N84-23197 #

CTH-R-82/07 ..... 24 p3899 N84-34691 #

CTIAC-64 ..... 10 p1471 N84-19609 #
CTIAC-66 ..... 06 p0822 N84-15357 #
CTIAC-70 ..... 16 p2477 N84-25880 #

CTR-ONR-8301 ..... 23 p3805 N84-34126 #

CTR-3-5-79-247-5F ..... 22 p3612 N84-32687 #
CTR-3-5-81-306-1 ..... 22 p3612 N84-32688 #
CTR-3-8-80-256-3 ..... 04 p0516 N84-13389 #
CTR-106-01 ..... 01 p0062 N84-10408 #
CTR-0748-84003 ..... 21 p3413 N84-31641* #

CU-CS-247-83 ..... 02 p0282 N84-11847 #
CU-CS-248-83 ..... 05 p0729 N84-14788 #
CU-CS-249-83 ..... 05 p0729 N84-14789 #

CUED/A-TURBO/TR-118 ..... 01 p0002 N84-10016 #

CUMER-83-4 ..... 10 p1491 N84-19752 #

CW-WR-76-020.111 ..... 01 p0092 N84-10597 #

CWI-AM-R8401 ..... 19 p3092 N84-29633 #
CWI-AM-R8402 ..... 19 p3092 N84-29634 #
CWI-AM-R8403 ..... 19 p3092 N84-29635 #
CWI-AM-R8404 ..... 19 p3092 N84-29636 #

CWI-CS-R8401 ..... 17 p2756 N84-27495 #
CWI-CS-R8403 ..... 17 p2754 N84-27485 #

CWI-MS-R8401-PT-2 ..... 19 p3094 N84-29652 #
CWI-MS-R8402 ..... 19 p3091 N84-29632 #

CWI-NM-N8401 ..... 20 p3275 N84-30792 #

CWI-OS-R8401 ..... 17 p2761 N84-27535 #
CWI-OS-R8402 ..... 19 p3092 N84-29637 #
CWI-OS-R8403 ..... 17 p2754 N84-27483 #
CWI-OS-R8404 ..... 19 p3081 N84-29550 #
CWI-OS-R8405 ..... 19 p3092 N84-29638 #

CWI-PM-R8401 ..... 19 p3095 N84-29659 #

CWRU/DMS/TR-9 ..... 01 p0031 N84-10192 #
CWRU/DMS/TR-10 ..... 01 p0037 N84-10234 #
CWRU/DMS/TR-11 ..... 01 p0031 N84-10197 #
CWRU/DMS/TR-14 ..... 08 p1138 N84-17399 #

CWRUTH-83-7 ..... 20 p3297 N84-30939 #

C83-522/201 ..... 03 p0349 N84-12270 #

D-49355 ..... 19 p2963 N84-28778* #

D/M-136 ..... 15 p2399 N84-25396 #
D/M-137 ..... 15 p2399 N84-25399 #

D/1984/0238/293 ..... 16 p2440 N84-25656 #
D/1984/0238/294-VOL-2 ..... 16 p2489 N84-25965 #

DAAG-012/6 ..... 17 p2624 N84-26794 #

DAS-TR-22 ..... 11 p1744 N84-21383 #

DATA-94 ..... 01 p0111 N84-10721 #
DATA-107 ..... 18 p2892 N84-28356 #
DATA-110 ..... 18 p2893 N84-28358 #
DATA-111 ..... 23 p3803 N84-34114 #

DAVAA-TR-81-0089-4 ..... 06 p0896 N84-15817 #

DC-FR-1026.230-1 ..... 15 p2329 N84-24983 #

DC-Y3-04418 ..... 02 p0238 N84-11562* #
DC-Y3-04440 ..... 06 p0865 N84-15635* #
DC-Y3-04441 ..... 06 p0865 N84-15637* #

DC-61 ..... 20 p3280 N84-30821 #
DC-62 ..... 20 p3280 N84-30822 #
DC-63 ..... 08 p1104 N84-17179 #

DCA-P-97 ..... 15 p2416 N84-25508 #

DCA-P-98 ..... 15 p2416 N84-25505 #

DCEC-TN-11-82 ..... 17 p2653 N84-26970 #

DCEC-TR-2-77 ..... 07 p0994 N84-16442 #

DCIEM-84-C-16 ..... 23 p3810 N84-34157 #

DCN-1-3-ES-26516 ..... 03 p0371 N84-12413* #

DCW-R-29-01 ..... 12 p1816 N84-21836 #

DDA-EDR-11185 ..... 01 p0089 N84-10581* #

DDI/PR-82-9-331 ..... 15 p2382 N84-25288 #

DDR-1099 ..... 19 p3032 N84-29234 #

DE-Y2-04396 ..... 06 p0865 N84-15636* #

DE-142 ..... 15 p2322 N84-24941 #

DEC/1983/31 ..... 21 p3476 N84-32034 #

DEED-08-83 ..... 10 p1531 N84-20027 #

DELCS-TR-81-0133-F ..... 11 p1703 N84-21103 #

DELET-TR-79-0272-F ..... 04 p0526 N84-13459 #

DELEW-TR-83-2 ..... 04 p0589 N84-13893 #

DELNV-TR-0035 ..... 05 p0667 N84-14387 #
DELNV-TR-0037 ..... 13 p1995 N84-22945 #

DEL83-014883 ..... 02 p0219 N84-11434 #

DEW-83-1-REV ..... 05 p0670 N84-14408 #
DEW-83-2 ..... 08 p1144 N84-17441 #

DE82-008836 ..... 01 p0038 N84-10238 #
DE82-011513 ..... 06 p0872 N84-15677 #
DE82-016271 ..... 05 p0700 N84-14592 #
DE82-020093 ..... 07 p1010 N84-16551 #
DE82-906300 ..... 02 p0275 N84-11798 #
DE83-000597 ..... 01 p0080 N84-10521 #
DE83-001102 ..... 03 p0441 N84-12899 #
DE83-003450 ..... 02 p0194 N84-11262 #
DE83-003469 ..... 03 p0406 N84-12655 #
DE83-003910 ..... 03 p0350 N84-12273 #
DE83-003951 ..... 02 p0214 N84-11400 #
DE83-004201 ..... 06 p0851 N84-15551
DE83-005129 ..... 06 p0872 N84-15676 #
DE83-005130 ..... 06 p0833 N84-15423
DE83-005353 ..... 06 p0866 N84-15638 #
DE83-005440 ..... 01 p0053 N84-10345 #
DE83-005697 ..... 03 p0372 N84-12426 #
DE83-005791 ..... 06 p0910 N84-15908
DE83-005799 ..... 06 p0910 N84-15907
DE83-006030 ..... 06 p0872 N84-15678 #
DE83-006198 ..... 02 p0292 N84-11915 #
DE83-006300 ..... 01 p0085 N84-10549 #
DE83-007509 ..... 03 p0380 N84-12477 #
DE83-007548 ..... 01 p0148 N84-10972 #
DE83-007566 ..... 02 p0282 N84-11849 #
DE83-007910 ..... 01 p0081 N84-10529 #
DE83-007911 ..... 03 p0372 N84-12424 #
DE83-008381 ..... 03 p0353 N84-12293 #
DE83-008451 ..... 12 p1878 N84-22241 #
DE83-008535 ..... 06 p0916 N84-15956 #
DE83-008738 ..... 01 p0144 N84-10945 #
DE83-008754 ..... 02 p0302 N84-11984 #
DE83-008776 ..... 01 p0144 N84-10946 #
DE83-009106 ..... 01 p0140 N84-10921 #
DE83-009186 ..... 01 p0074 N84-10487 #
DE83-009188 ..... 02 p0291 N84-11906 #
DE83-009289 ..... 03 p0350 N84-12278 #
DE83-009292 ..... 02 p0269 N84-11764 #
DE83-009309 ..... 01 p0097 N84-10633 #
DE83-009396 ..... 01 p0082 N84-10533 #
DE83-009398 ..... 02 p0242 N84-11585 #
DE83-009399 ..... 02 p0302 N84-11983 #
DE83-009405 ..... 06 p1180 N84-17688 #
DE83-009407 ..... 03 p0405 N84-12650 #
DE83-009408 ..... 16 p2513 N84-26124 #
DE83-009451 ..... 06 p0926 N84-16015
DE83-009495 ..... 03 p0354 N84-12302 #
DE83-009532 ..... 03 p0445 N84-12922 #
DE83-009572 ..... 04 p0603 N84-13980 #
DE83-009625 ..... 03 p0389 N84-12538 #
DE83-009688 ..... 01 p0081 N84-10525 #
DE83-009750 ..... 03 p0349 N84-12271 #
DE83-009817 ..... 01 p0134 N84-10878 #
DE83-009903 ..... 02 p0201 N84-11306 #
DE83-009905 ..... 12 p1908 N84-22431 #
DE83-009934 ..... 02 p0215 N84-11412 #

DE83-009946 ..... 01 p0080 N84-10520 #
DE83-010233 ..... 01 p0150 N84-10988 #
DE83-010256 ..... 02 p0218 N84-11430 #
DE83-010259 ..... 07 p1027 N84-16655 #
DE83-010260 ..... 01 p0037 N84-10236 #
DE83-010325 ..... 05 p0699 N84-14589 #
DE83-010371 ..... 03 p0445 N84-12925 #
DE83-010378 ..... 03 p0445 N84-12924 #
DE83-010396 ..... 02 p0188 N84-11223 #
DE83-010403 ..... 02 p0215 N84-11409 #
DE83-010594 ..... 03 p0349 N84-12272 #
DE83-010624 ..... 02 p0244 N84-11596 #
DE83-010704 ..... 03 p0437 N84-12865 #
DE83-010726 ..... 01 p0097 N84-10632 #
DE83-010757 ..... 03 p0446 N84-12931 #
DE83-010824 ..... 01 p0046 N84-10294 #
DE83-010935 ..... 03 p0421 N84-12754 #
DE83-011134 ..... 01 p0080 N84-10519 #
DE83-011146 ..... 01 p0097 N84-10631 #
DE83-011170 ..... 01 p0085 N84-10550 #
DE83-011175 ..... 05 p0758 N84-14969 #
DE83-011177 ..... 03 p0437 N84-12870 #
DE83-011189 ..... 01 p0124 N84-10811 #
DE83-011216 ..... 01 p0074 N84-10483 #
DE83-011245 ..... 03 p0384 N84-12499 #
DE83-011246 ..... 02 p0292 N84-11916 #
DE83-011254 ..... 01 p0075 N84-10493 #
DE83-011315 ..... 03 p0461 N84-13039* #
DE83-011320 ..... 03 p0476 N84-13133 #
DE83-011325 ..... 08 p1236 N84-18077 #
DE83-011332 ..... 17 p2777 N84-27632* #
DE83-011391 ..... 03 p0420 N84-12748 #
DE83-011400 ..... 04 p0582 N84-13841 #
DE83-011413 ..... 02 p0219 N84-11436 #
DE83-011450 ..... 01 p0080 N84-10518 #
DE83-011486 ..... 07 p1090 N84-17088 #
DE83-011499 ..... 11 p1659 N84-20825 #
DE83-011566 ..... 06 p0924 N84-16009 #
DE83-011645 ..... 02 p0289 N84-11896 #
DE83-011646 ..... 04 p0603 N84-13981 #
DE83-011706 ..... 06 p0925 N84-16013 #
DE83-011740 ..... 01 p0037 N84-10235 #
DE83-011741 ..... 02 p0232 N84-11520 #
DE83-011743 ..... 01 p0143 N84-10939 #
DE83-011784 ..... 01 p0073 N84-10475 #
DE83-011849 ..... 03 p0434 N84-12842 #
DE83-011851 ..... 02 p0290 N84-11904 #
DE83-011852 ..... 01 p0088 N84-10443 #
DE83-011853 ..... 01 p0143 N84-10938 #
DE83-011861 ..... 01 p0072 N84-10473 #
DE83-011896 ..... 02 p0227 N84-11485 #
DE83-011931 ..... 06 p0862 N84-15614 #
DE83-011934 ..... 04 p0536 N84-13524 #
DE83-011956 ..... 16 p2512 N84-26118 #
DE83-011960 ..... 06 p0873 N84-15680 #
DE83-011961 ..... 12 p1843 N84-22015 #
DE83-011962 ..... 02 p0218 N84-11431 #
DE83-011968 ..... 16 p2512 N84-26121 #
DE83-011970 ..... 16 p2528 N84-26227 #
DE83-011971 ..... 02 p0242 N84-11584 #
DE83-011973 ..... 03 p0475 N84-13127 #
DE83-011974 ..... 03 p0404 N84-12647 #
DE83-011982 ..... 04 p0537 N84-13530 #
DE83-011983 ..... 16 p2512 N84-26119 #
DE83-011989 ..... 03 p0475 N84-13128 #
DE83-011991 ..... 16 p2512 N84-26123 #
DE83-011992 ..... 04 p0570 N84-13757 #
DE83-011993 ..... 04 p0558 N84-13682 #
DE83-011996 ..... 04 p0558 N84-13676 #
DE83-011998 ..... 03 p0401 N84-12622 #
DE83-012005 ..... 01 p0139 N84-10909 #
DE83-012040 ..... 01 p0154 N84-11011 #
DE83-012045 ..... 03 p0454 N84-12985 #
DE83-012053 ..... 01 p0091 N84-10591 #
DE83-012064 ..... 03 p0460 N84-13031 #
DE83-012075 ..... 03 p0377 N84-12457 #
DE83-012084 ..... 04 p0616 N84-14065 #
DE83-012123 ..... 02 p0232 N84-11523 #
DE83-012129 ..... 03 p0404 N84-12641 #
DE83-012131 ..... 06 p0875 N84-15691 #
DE83-012132 ..... 03 p0404 N84-12644 #
DE83-012145 ..... 02 p0204 N84-11328 #
DE83-012146 ..... 06 p0855 N84-15570 #
DE83-012166 ..... 03 p0385 N84-12510 #
DE83-012179 ..... 01 p0163 N84-11070 #
DE83-012205 ..... 11 p1686 N84-20869 #
DE83-012214 ..... 01 p0142 N84-10935 #
DE83-012217 ..... 03 p0367 N84-12388 #
DE83-012278 ..... 01 p0103 N84-10668 #
DE83-012338 ..... 02 p0242 N84-11587 #
DE83-012344 ..... 01 p0119 N84-10774 #
DE83-012347 ..... 01 p0037 N84-10237 #
DE83-012348 ..... 01 p0142 N84-10933 #
DE83-012390 ..... 03 p0439 N84-12881 #
DE83-012474 ..... 02 p0203 N84-11325 #
DE83-012502 ..... 01 p0073 N84-10477 #

DE83-012506 ..... 03 p0389 N84-12403 #
DE83-012583 ..... 03 p0383 N84-12497 #
DE83-012590 ..... 02 p0270 N84-11769 #
DE83-012593 ..... 04 p0536 N84-13521 #
DE83-012600 ..... 02 p0287 N84-11880 #
DE83-012609 ..... 01 p0096 N84-10628 #
DE83-012610 ..... 06 p0875 N84-15694 #
DE83-012620 ..... 01 p0044 N84-10284 #
DE83-012624 ..... 03 p0389 N84-12537 #
DE83-012625 ..... 01 p0153 N84-11009 #
DE83-012626 ..... 03 p0453 N84-12960 #
DE83-012627 ..... 01 p0148 N84-10971 #
DE83-012629 ..... 01 p0150 N84-10986 #
DE83-012635 ..... 11 p1657 N84-20811 #
DE83-012641 ..... 03 p0445 N84-12923 #
DE83-012643 ..... 01 p0137 N84-10900 #
DE83-012658 ..... 03 p0463 N84-13047 #
DE83-012659 ..... 03 p0453 N84-12979 #
DE83-012660 ..... 02 p0225 N84-11477 #
DE83-012663 ..... 03 p0380 N84-12472 #
DE83-012668 ..... 01 p0124 N84-10805 #
DE83-012669 ..... 02 p0277 N84-11814 #
DE83-012673 ..... 01 p0096 N84-10635 #
DE83-012675 ..... 01 p0081 N84-10526 #
DE83-012684 ..... 01 p0142 N84-10936 #
DE83-012687 ..... 01 p0145 N84-10955 #
DE83-012688 ..... 01 p0145 N84-10952 #
DE83-012689 ..... 01 p0145 N84-10953 #
DE83-012690 ..... 01 p0145 N84-10954 #
DE83-012696 ..... 01 p0073 N84-10478 #
DE83-012698 ..... 01 p0082 N84-10535 #
DE83-012705 ..... 02 p0210 N84-11373 #
DE83-012706 ..... 01 p0073 N84-10480 #
DE83-012708 ..... 12 p1895 N84-22343 #
DE83-012710 ..... 01 p0143 N84-10942 #
DE83-012711 ..... 01 p0119 N84-10773 #
DE83-012712 ..... 03 p0433 N84-12840 #
DE83-012714 ..... 01 p0143 N84-10943 #
DE83-012715 ..... 02 p0290 N84-11903 #
DE83-012721 ..... 02 p0194 N84-11263 #
DE83-012726 ..... 01 p0082 N84-10530 #
DE83-012740 ..... 02 p0295 N84-11932 #
DE83-012745 ..... 01 p0150 N84-10983 #
DE83-012749 ..... 12 p1619 N84-21856 #
DE83-012761 ..... 03 p0372 N84-12425 #
DE83-012764 ..... 02 p0290 N84-11902 #
DE83-012765 ..... 04 p0537 N84-13532 #
DE83-012773 ..... 01 p0144 N84-10944 #
DE83-012778 ..... 05 p0730 N84-14794 #
DE83-012781 ..... 03 p0439 N84-12880 #
DE83-012782 ..... 01 p0087 N84-10569 #
DE83-012783 ..... 02 p0250 N84-11635 #
DE83-012785 ..... 02 p0250 N84-11634 #
DE83-012795 ..... 02 p0290 N84-11899 #
DE83-012801 ..... 16 p2494 N84-26004 #
DE83-012802 ..... 01 p0148 N84-10973 #
DE83-012815 ..... 02 p0299 N84-11962 #
DE83-012817 ..... 03 p0429 N84-12815 #
DE83-012823 ..... 01 p0085 N84-10552 #
DE83-012846 ..... 03 p0358 N84-12326 #
DE83-012847 ..... 02 p0190 N84-11237 #
DE83-012854 ..... 03 p0438 N84-12878 #
DE83-012855 ..... 01 p0085 N84-10551 #
DE83-012878 ..... 01 p0142 N84-10934 #
DE83-012894 ..... 01 p0143 N84-10940 #
DE83-012896 ..... 01 p0081 N84-10524 #
DE83-012899 ..... 03 p0441 N84-12895 #
DE83-012922 ..... 02 p0214 N84-11402 #
DE83-012925 ..... 01 p0149 N84-10981 #
DE83-012927 ..... 01 p0149 N84-10980 #
DE83-012941 ..... 01 p0146 N84-10958 #
DE83-012942 ..... 01 p0068 N84-10442 #
DE83-012943 ..... 01 p0090 N84-10586 #
DE83-012951 ..... 01 p0088 N84-10573 #
DE83-012952 ..... 03 p0433 N84-12841 #
DE83-012954 ..... 01 p0150 N84-10985 #
DE83-012961 ..... 01 p0154 N84-11013 #
DE83-012974 ..... 01 p0109 N84-10706 #
DE83-012995 ..... 02 p0299 N84-11961 #
DE83-013011 ..... 01 p0081 N84-10528 #
DE83-013012 ..... 10 p1457 N84-19516 #
DE83-013025 ..... 01 p0051 N84-10326 #
DE83-013035 ..... 03 p0441 N84-12896 #
DE83-013038 ..... 01 p0057 N84-10373 #
DE83-013039 ..... 03 p0426 N84-12789 #
DE83-013041 ..... 01 p0134 N84-10880 #
DE83-013042 ..... 01 p0068 N84-10445 #
DE83-013044 ..... 01 p0134 N84-10879 #
DE83-013064 ..... 01 p0053 N84-10344 #
DE83-013070 ..... 04 p0621 N84-14099 #
DE83-013071 ..... 01 p0082 N84-10534 #
DE83-013073 ..... 02 p0204 N84-11327 #
DE83-013074 ..... 09 p1405 N84-19178 #
DE83-013076 ..... 02 p0290 N84-11900 #
DE83-013077 ..... 02 p0290 N84-11901 #
DE83-013092 ..... 02 p0296 N84-11939 #
DE83-013096 ..... 02 p0214 N84-11403 #
DE83-013098 ..... 02 p0229 N84-11504 #
DE83-013114 ..... 06 p0910 N84-15906
DE83-013117 ..... 01 p0017 N84-10107 #
DE83-013118 ..... 01 p0050 N84-10325 #
DE83-013206 ..... 02 p0274 N84-11791 #
DE83-013214 ..... 01 p0143 N84-10937 #
DE83-013215 ..... 03 p0382 N84-12488 #
DE83-013229 ..... 01 p0124 N84-10807 #
DE83-013276 ..... 01 p0114 N84-10741 #
DE83-013278 ..... 01 p0053 N84-10343 #
DE83-013280 ..... 03 p0454 N84-12987 #
DE83-013281 ..... 01 p0081 N84-10527 #
DE83-013295 ..... 02 p0274 N84-11790 #
DE83-013296 ..... 02 p0195 N84-11267 #
DE83-013309 ..... 01 p0154 N84-11010 #
DE83-013312 ..... 01 p0045 N84-10288 #
DE83-013317 ..... 01 p0046 N84-10293 #
DE83-013323 ..... 02 p0218 N84-11432 #
DE83-013347 ..... 02 p0285 N84-11870 #
DE83-013365 ..... 02 p0304 N84-11992 #
DE83-013367 ..... 01 p0145 N84-10956 #
DE83-013377 ..... 02 p0190 N84-11235 #
DE83-013379 ..... 01 p0146 N84-10957 #
DE83-013384 ..... 03 p0438 N84-12877 #
DE83-013406 ..... 01 p0090 N84-10589 #
DE83-013427 ..... 03 p0418 N84-12733 #
DE83-013436 ..... 01 p0038 N84-10241 #
DE83-013438 ..... 01 p0090 N84-10587 #
DE83-013488 ..... 02 p0203 N84-11326 #
DE83-013521 ..... 02 p0269 N84-11763 #
DE83-013522 ..... 01 p0082 N84-10531 #
DE83-013523 ..... 02 p0274 N84-11789 #
DE83-013524 ..... 02 p0232 N84-11521 #
DE83-013528 ..... 01 p0134 N84-10881 #
DE83-013561 ..... 02 p0214 N84-11401 #
DE83-013574 ..... 01 p0068 N84-10444 #
DE83-013582 ..... 03 p0380 N84-12473 #
DE83-013585 ..... 03 p0454 N84-12991 #
DE83-013592 ..... 02 p0200 N84-11305 #
DE83-013610 ..... 01 p0053 N84-10342 #
DE83-013611 ..... 01 p0045 N84-10289 #
DE83-013613 ..... 01 p0164 N84-11079 #
DE83-013616 ..... 01 p0074 N84-10486 #
DE83-013632 ..... 01 p0087 N84-10571 #
DE83-013638 ..... 01 p0088 N84-10572 #
DE83-013640 ..... 03 p0445 N84-12921 #
DE83-013641 ..... 01 p0087 N84-10570 #
DE83-013643 ..... 01 p0071 N84-10465 #
DE83-013677 ..... 01 p0072 N84-10474 #
DE83-013690 ..... 01 p0045 N84-10291 #
DE83-013693 ..... 12 p1845 N84-22028 #
DE83-013695 ..... 04 p0600 N84-13958 #
DE83-013706 ..... 01 p0151 N84-10990 #
DE83-013708 ..... 01 p0085 N84-10553 #
DE83-013711 ..... 03 p0476 N84-13132 #
DE83-013726 ..... 01 p0112 N84-10728 #
DE83-013738 ..... 01 p0074 N84-10484 #
DE83-013744 ..... 01 p0053 N84-10341 #
DE83-013755 ..... 01 p0046 N84-10295 #
DE83-013760 ..... 02 p0309 N84-12025 #
DE83-013765 ..... 01 p0148 N84-10974 #
DE83-013769 ..... 03 p0366 N84-12385 #
DE83-013770 ..... 03 p0390 N84-12544 #
DE83-013771 ..... 06 p0811 N84-15280 #
DE83-013772 ..... 02 p0204 N84-11330 #
DE83-013773 ..... 01 p0090 N84-10588 #
DE83-013793 ..... 01 p0074 N84-10485 #
DE83-013817 ..... 01 p0150 N84-10984 #
DE83-013828 ..... 01 p0005 N84-10033 #
DE83-013830 ..... 02 p0266 N84-11748 #
DE83-013831 ..... 01 p0124 N84-10806 #
DE83-013843 ..... 01 p0045 N84-10290 #
DE83-013844 ..... 02 p0250 N84-11633 #
DE83-013848 ..... 12 p1919 N84-22504 #
DE83-013854 ..... 01 p0149 N84-10982 #
DE83-013859 ..... 02 p0290 N84-11898 #
DE83-013862 ..... 04 p0523 N84-13436 #
DE83-013886 ..... 01 p0124 N84-10808 #
DE83-013910 ..... 01 p0054 N84-10346 #
DE83-013961 ..... 02 p0195 N84-11266 #
DE83-013968 ..... 01 p0088 N84-10577 #
DE83-013973 ..... 02 p0296 N84-11940 #
DE83-013975 ..... 01 p0051 N84-10329 #
DE83-013980 ..... 02 p0200 N84-11304 #
DE83-014003 ..... 02 p0219 N84-11435 #
DE83-014011 ..... 03 p0373 N84-12427 #
DE83-014020 ..... 01 p0154 N84-11012 #
DE83-014029 ..... 01 p0118 N84-10764 #
DE83-014043 ..... 03 p0427 N84-12802 #
DE83-014044 ..... 02 p0195 N84-11264 #
DE83-014050 ..... 02 p0271 N84-11770 #
DE83-014052 ..... 01 p0154 N84-11014 #
DE83-014053 ..... 01 p0112 N84-10729 #
DE83-014054 ..... 03 p0368 N84-12399 #
DE83-014055 ..... 03 p0436 N84-12862 #

DE83-014058 ..... 03 p0453 N84-12981 #
DE83-014070 ..... 03 p0437 N84-12869 #
DE83-014075 ..... 02 p0188 N84-11224 #
DE83-014076 ..... 01 p0143 N84-10941 #
DE83-014082 ..... 02 p0301 N84-11973 #
DE83-014084 ..... 02 p0240 N84-11575 #
DE83-014118 ..... 01 p0155 N84-11019 #
DE83-014123 ..... 01 p0146 N84-10959 #
DE83-014124 ..... 01 p0098 N84-10637 #
DE83-014125 ..... 05 p0738 N84-14848 #
DE83-014140 ..... 02 p0219 N84-11433 #
DE83-014147 ..... 03 p0446 N84-12930 #
DE83-014149 ..... 01 p0151 N84-10993 #
DE83-014152 ..... 01 p0073 N84-10481 #
DE83-014154 ..... 02 p0223 N84-11466 #
DE83-014158 ..... 01 p0151 N84-10994 #
DE83-014163 ..... 02 p0295 N84-11933 #
DE83-014169 ..... 02 p0226 N84-11484 #
DE83-014170 ..... 02 p0190 N84-11236 #
DE83-014179 ..... 01 p0068 N84-10576 #
DE83-014187 ..... 01 p0162 N84-11064 #
DE83-014189 ..... 03 p0366 N84-12384 #
DE83-014191 ..... 03 p0408 N84-12672 #
DE83-014194 ..... 01 p0151 N84-10991 #
DE83-014195 ..... 01 p0088 N84-10575 #
DE83-014197 ..... 03 p0381 N84-12480 #
DE83-014201 ..... 02 p0289 N84-11897 #
DE83-014204 ..... 03 p0433 N84-12839 #
DE83-014205 ..... 03 p0367 N84-12389 #
DE83-014234 ..... 01 p0057 N84-10374 #
DE83-014236 ..... 08 p1180 N84-17690 #
DE83-014265 ..... 02 p0195 N84-11265 #
DE83-014270 ..... 02 p0304 N84-11994 #
DE83-014271 ..... 01 p0140 N84-10920 #
DE83-014277 ..... 02 p0270 N84-11768 #
DE83-014278 ..... 02 p0223 N84-11485 #
DE83-014279 ..... 05 p0756 N84-14960 #
DE83-014282 ..... 01 p0092 N84-10601 #
DE83-014283 ..... 02 p0291 N84-11905 #
DE83-014290 ..... 01 p0124 N84-10809 #
DE83-014305 ..... 01 p0074 N84-10488 #
DE83-014307 ..... 03 p0424 N84-12774 #
DE83-014311 ..... 04 p0530 N84-13485 #
DE83-014318 ..... 01 p0085 N84-10554 #
DE83-014321 ..... 01 p0038 N84-10243 #
DE83-014334 ..... 05 p0756 N84-14959 #
DE83-014341 ..... 01 p0082 N84-10532 #
DE83-014343 ..... 01 p0039 N84-10244 #
DE83-014344 ..... 03 p0347 N84-12254 #
DE83-014359 ..... 02 p0226 N84-11483 #
DE83-014368 ..... 01 p0093 N84-10602 #
DE83-014391 ..... 01 p0080 N84-10523 #
DE83-014392 ..... 08 p1181 N84-17693 #
DE83-014401 ..... 02 p0204 N84-11329 #
DE83-014424 ..... 01 p0090 N84-10590 #
DE83-014429 ..... 01 p0098 N84-10639 #
DE83-014431 ..... 03 p0416 N84-12720 #
DE83-014447 ..... 02 p0205 N84-11334 #
DE83-014454 ..... 02 p0301 N84-11977 #
DE83-014463 ..... 02 p0282 N84-11851 #
DE83-014481 ..... 02 p0296 N84-11943 #
DE83-014488 ..... 01 p0163 N84-11071 #
DE83-014498 ..... 03 p0412 N84-12694 #
DE83-014501 ..... 06 p0880 N84-15728
DE83-014541 ..... 02 p0191 N84-11242 #
DE83-014547 ..... 02 p0206 N84-11342 #
DE83-014551 ..... 03 p0367 N84-12387 #
DE83-014552 ..... 01 p0038 N84-10242 #
DE83-014592 ..... 02 p0245 N84-11603 #
DE83-014594 ..... 01 p0155 N84-11020 #
DE83-014604 ..... 02 p0271 N84-11771 #
DE83-014606 ..... 03 p0369 N84-12402 #
DE83-014616 ..... 01 p0144 N84-10947 #
DE83-014623 ..... 03 p0389 N84-12540 #
DE83-014626 ..... 02 p0293 N84-11919 #
DE83-014628 ..... 01 p0088 N84-10574 #
DE83-014632 ..... 01 p0051 N84-10327 #
DE83-014651 ..... 01 p0091 N84-10592 #
DE83-014670 ..... 02 p0229 N84-11505 #
DE83-014675 ..... 03 p0356 N84-12319 #
DE83-014680 ..... 03 p0369 N84-12404 #
DE83-014683 ..... 03 p0385 N84-12511 #
DE83-014686 ..... 01 p0155 N84-11022 #
DE83-014698 ..... 04 p0592 N84-13908 #
DE83-014701 ..... 03 p0404 N84-12642 #
DE83-014703 ..... 01 p0032 N84-10202 #
DE83-014704 ..... 03 p0354 N84-12299 #
DE83-014711 ..... 02 p0291 N84-11907 #
DE83-014716 ..... 01 p0046 N84-10296 #
DE83-014735 ..... 03 p0353 N84-12297 #
DE83-014760 ..... 03 p0403 N84-12638 #
DE83-014761 ..... 01 p0162 N84-11066 #
DE83-014790 ..... 04 p0608 N84-14011 #
DE83-014794 ..... 01 p0155 N84-11018 #
DE83-014807 ..... 03 p0434 N84-12843 #
DE83-014809 ..... 02 p0219 N84-11439 #
DE83-014815 ..... 02 p0215 N84-11408 #
DE83-014829 ..... 02 p0282 N84-11850 #
DE83-014834 ..... 02 p0227 N84-11486 #
DE83-014840 ..... 01 p0075 N84-10491 #
DE83-014844 ..... 02 p0191 N84-11238 #
DE83-014858 ..... 08 p1162 N84-17566 #
DE83-014860 ..... 02 p0210 N84-11374 #
DE83-014862 ..... 02 p0224 N84-11467 #
DE83-014863 ..... 01 p0155 N84-11023* #
DE83-014866 ..... 02 p0258 N84-11687 #
DE83-014872 ..... 02 p0297 N84-11946 #
DE83-014884 ..... 01 p0150 N84-10987 #
DE83-014889 ..... 01 p0135 N84-10882 #
DE83-014896 ..... 03 p0435 N84-12849 #
DE83-014897 ..... 03 p0435 N84-12850 #
DE83-014898 ..... 04 p0609 N84-14016 #
DE83-014900 ..... 01 p0127 N84-10832 #
DE83-014907 ..... 01 p0124 N84-10810 #
DE83-014908 ..... 01 p0162 N84-11065 #
DE83-014941 ..... 01 p0075 N84-10490 #
DE83-014942 ..... 02 p0296 N84-11944 #
DE83-014945 ..... 01 p0109 N84-10707 #
DE83-014946 ..... 06 p0896 N84-15818 #
DE83-014949 ..... 03 p0458 N84-13013 #
DE83-014953 ..... 01 p0144 N84-10949 #
DE83-014989 ..... 01 p0046 N84-10297 #
DE83-015005 ..... 03 p0347 N84-12255 #
DE83-015007 ..... 11 p1709 N84-21139 #
DE83-015009 ..... 02 p0214 N84-11404 #
DE83-015024 ..... 02 p0220 N84-11440 #
DE83-015035 ..... 01 p0155 N84-11017 #
DE83-015080 ..... 04 p0529 N84-13482 #
DE83-015096 ..... 02 p0285 N84-11871 #
DE83-015104 ..... 03 p0353 N84-12296 #
DE83-015141 ..... 03 p0438 N84-12873 #
DE83-015144 ..... 02 p0291 N84-11911 #
DE83-015166 ..... 04 p0494 N84-13242 #
DE83-015167 ..... 03 p0367 N84-12388 #
DE83-015188 ..... 01 p0125 N84-10812 #
DE83-015189 ..... 01 p0154 N84-11016 #
DE83-015200 ..... 01 p0092 N84-10597 #
DE83-015210 ..... 03 p0455 N84-12996 #
DE83-015212 ..... 03 p0454 N84-12986 #
DE83-015213 ..... 01 p0155 N84-11024 #
DE83-015215 ..... 05 p0756 N84-14958 #
DE83-015216 ..... 03 p0457 N84-13006 #
DE83-015218 ..... 02 p0227 N84-11487 #
DE83-015220 ..... 03 p0380 N84-12474 #
DE83-015222 ..... 03 p0367 N84-12391 #
DE83-015227 ..... 02 p0201 N84-11311 #
DE83-015229 ..... 02 p0232 N84-11522 #
DE83-015230 ..... 03 p0369 N84-12400 #
DE83-015231 ..... 03 p0426 N84-12790 #
DE83-015232 ..... 03 p0434 N84-12845 #
DE83-015233 ..... 03 p0435 N84-12853 #
DE83-015234 ..... 02 p0227 N84-11490 #
DE83-015236 ..... 01 p0082 N84-10536 #
DE83-015237 ..... 02 p0215 N84-11410 #
DE83-015239 ..... 02 p0224 N84-11469 #
DE83-015241 ..... 07 p1094 N84-17116 #
DE83-015245 ..... 03 p0367 N84-12390 #
DE83-015246 ..... 02 p0196 N84-11272 #
DE83-015249 ..... 10 p1469 N84-19582 #
DE83-015252 ..... 03 p0445 N84-12928 #
DE83-015254 ..... 02 p0292 N84-11917 #
DE83-015257 ..... 02 p0293 N84-11918 #
DE83-015259 ..... 02 p0224 N84-11468 #
DE83-015260 ..... 04 p0615 N84-14057 #
DE83-015261 ..... 01 p0046 N84-10299 #
DE83-015297 ..... 04 p0581 N84-13834 #
DE83-015328 ..... 01 p0101 N84-10654 #
DE83-015331 ..... 01 p0046 N84-10298 #
DE83-015344 ..... 01 p0155 N84-11021 #
DE83-015354 ..... 03 p0455 N84-12994 #
DE83-015363 ..... 02 p0244 N84-11600 #
DE83-015375 ..... 05 p0761 N84-14992 #
DE83-015376 ..... 04 p0507 N84-13326 #
DE83-015383 ..... 03 p0441 N84-12896 #
DE83-015384 ..... 03 p0438 N84-12874 #
DE83-015386 ..... 02 p0244 N84-11599 #
DE83-015388 ..... 01 p0112 N84-10727 #
DE83-015392 ..... 03 p0438 N84-12872 #
DE83-015394 ..... 03 p0416 N84-12723 #
DE83-015406 ..... 03 p0389 N84-12539 #
DE83-015412 ..... 02 p0201 N84-11308 #
DE83-015443 ..... 01 p0051 N84-10328 #
DE83-015447 ..... 03 p0442 N84-12902 #
DE83-015457 ..... 01 p0074 N84-10489 #
DE83-015458 ..... 01 p0154 N84-11015 #
DE83-015481 ..... 01 p0091 N84-10593 #
DE83-015483 ..... 02 p0264 N84-11741 #
DE83-015489 ..... 02 p0244 N84-11601 #
DE83-015492 ..... 03 p0441 N84-12897 #
DE83-015494 ..... 02 p0206 N84-11343 #
DE83-015499 ..... 02 p0300 N84-11967 #
DE83-015505 ..... 02 p0202 N84-11313 #

DE83-015506 ..... 03 p0454 N84-12990 #
DE83-015509 ..... 02 p0224 N84-11471 #
DE83-015524 ..... 02 p0220 N84-11444 #
DE83-015530 ..... 02 p0258 N84-11688 #
DE83-015531 ..... 04 p0605 N84-13994 #
DE83-015533 ..... 03 p0461 N84-13038 #
DE83-015535 ..... 03 p0440 N84-12887 #
DE83-015545 ..... 01 p0150 N84-10989 #
DE83-015564 ..... 03 p0454 N84-12989 #
DE83-015590 ..... 01 p0156 N84-11028 #
DE83-015598 ..... 03 p0439 N84-12883 #
DE83-015603 ..... 02 p0219 N84-11438 #
DE83-015612 ..... 03 p0353 N84-12298 #
DE83-015615 ..... 03 p0380 N84-12476 #
DE83-015616 ..... 03 p0446 N84-12933 #
DE83-015618 ..... 02 p0225 N84-11473 #
DE83-015622 ..... 03 p0356 N84-12318 #
DE83-015629 ..... 03 p0403 N84-12639 #
DE83-015642 ..... 02 p0301 N84-11975 #
DE83-015649 ..... 03 p0435 N84-12855 #
DE83-015677 ..... 02 p0201 N84-11307 #
DE83-015681 ..... 03 p0453 N84-12982 #
DE83-015682 ..... 03 p0435 N84-12851 #
DE83-015685 ..... 07 p1082 N84-17040 #
DE83-015689 ..... 03 p0434 N84-12846 #
DE83-015690 ..... 02 p0196 N84-11278 #
DE83-015691 ..... 03 p0440 N84-12886 #
DE83-015693 ..... 06 p0875 N84-15693 #
DE83-015695 ..... 08 p1123 N84-17297 #
DE83-015696 ..... 07 p1083 N84-17041 #
DE83-015697 ..... 06 p0924 N84-16005 #
DE83-015698 ..... 05 p0764 N84-15009 #
DE83-015703 ..... 02 p0205 N84-11333 #
DE83-015706 ..... 03 p0382 N84-12487 #
DE83-015712 ..... 02 p0266 N84-11751 #
DE83-015716 ..... 01 p0144 N84-10950 #
DE83-015719 ..... 03 p0461 N84-13034 #
DE83-015720 ..... 03 p0442 N84-12900 #
DE83-015728 ..... 03 p0402 N84-12626 #
DE83-015732 ..... 03 p0439 N84-12885 #
DE83-015735 ..... 03 p0381 N84-12482 #
DE83-015736 ..... 02 p0296 N84-11942 #
DE83-015755 ..... 01 p0073 N84-10479 #
DE83-015759 ..... 01 p0103 N84-10671 #
DE83-015762 ..... 03 p0438 N84-12875 #
DE83-015767 ..... 03 p0453 N84-12984 #
DE83-015783 ..... 01 p0144 N84-10948 #
DE83-015784 ..... 04 p0554 N84-13651 #
DE83-015786 ..... 01 p0047 N84-10301 #
DE83-015813 ..... 02 p0191 N84-11241 #
DE83-015819 ..... 02 p0244 N84-11597 #
DE83-015827 ..... 03 p0435 N84-12852 #
DE83-015832 ..... 01 p0135 N84-10883 #
DE83-015834 ..... 02 p0283 N84-11854 #
DE83-015836 ..... 02 p0256 N84-11677 #
DE83-015837 ..... 03 p0380 N84-12475 #
DE83-015840 ..... 02 p0297 N84-11945 #
DE83-015841 ..... 10 p1499 N84-19797 #
DE83-015842 ..... 01 p0073 N84-10482 #
DE83-015863 ..... 03 p0453 N84-12983 #
DE83-015871 ..... 03 p0445 N84-12927 #
DE83-015872 ..... 05 p0751 N84-14929 #
DE83-015875 ..... 02 p0291 N84-11909 #
DE83-015881 ..... 03 p0476 N84-13134 #
DE83-015884 ..... 03 p0430 N84-12816 #
DE83-015899 ..... 02 p0196 N84-11274 #
DE83-015901 ..... 02 p0219 N84-11437 #
DE83-015902 ..... 02 p0224 N84-11472 #
DE83-015904 ..... 03 p0437 N84-12871 #
DE83-015910 ..... 05 p0662 N84-14349 #
DE83-015912 ..... 02 p0220 N84-11442 #
DE83-015913 ..... 06 p1125 N84-17316 #
DE83-015915 ..... 02 p0220 N84-11441 #
DE83-015916 ..... 02 p0195 N84-11268 #
DE83-015923 ..... 03 p0435 N84-12854 #
DE83-015924 ..... 02 p0201 N84-11309 #
DE83-015925 ..... 03 p0419 N84-12737 #
DE83-015926 ..... 20 p3236 N84-30539 #
DE83-015927 ..... 02 p0220 N84-11446 #
DE83-015943 ..... 03 p0456 N84-13003 #
DE83-015946 ..... 02 p0292 N84-11912 #
DE83-015949 ..... 03 p0369 N84-12401 #
DE83-015951 ..... 03 p0434 N84-12847 #
DE83-015957 ..... 03 p0350 N84-12279 #
DE83-015962 ..... 02 p0228 N84-11492 #
DE83-015966 ..... 03 p0373 N84-12432 #
DE83-015972 ..... 02 p0196 N84-11273 #
DE83-015975 ..... 03 p0439 N84-12884 #
DE83-015984 ..... 01 p0047 N84-10300 #
DE83-015986 ..... 03 p0357 N84-12321 #
DE83-016012 ..... 03 p0406 N84-12656 #
DE83-016013 ..... 02 p0245 N84-11602 #
DE83-016014 ..... 03 p0450 N84-12960 #
DE83-016021 ..... 01 p0098 N84-10636 #
DE83-016045 ..... 02 p0264 N84-11740 #
DE83-016065 ..... 03 p0442 N84-12901 #
DE83-016069 ..... 03 p0390 N84-12543 #
DE83-016079 ..... 03 p0384 N84-12502 #
DE83-016082 ..... 04 p0571 N84-13762 #
DE83-016084 ..... 01 p0119 N84-10775 #
DE83-016089 ..... 02 p0291 N84-11908 #
DE83-016091 ..... 03 p0373 N84-12428 #
DE83-016123 ..... 02 p0227 N84-11489 #
DE83-016127 ..... 04 p0609 N84-14019 #
DE83-016138 ..... 01 p0144 N84-10951 #
DE83-016151 ..... 02 p0227 N84-11488 #
DE83-016161 ..... 05 p0755 N84-14955 #
DE83-016164 ..... 04 p0571 N84-13763 #
DE83-016169 ..... 02 p0266 N84-11749 #
DE83-016181 ..... 04 p0581 N84-13836 #
DE83-016184 ..... 04 p0507 N84-13325 #
DE83-016186 ..... 02 p0266 N84-11750 #
DE83-016203 ..... 02 p0215 N84-11406 #
DE83-016205 ..... 04 p0609 N84-14020 #
DE83-016210 ..... 03 p0428 N84-12791 #
DE83-016230 ..... 02 p0196 N84-11275 #
DE83-016231 ..... 02 p0304 N84-11995 #
DE83-016233 ..... 02 p0232 N84-11524 #
DE83-016238 ..... 02 p0274 N84-11794 #
DE83-016246 ..... 02 p0242 N84-11586 #
DE83-016247 ..... 02 p0299 N84-11965 #
DE83-016275 ..... 03 p0454 N84-12988 #
DE83-016285 ..... 03 p0434 N84-12844 #
DE83-016302 ..... 02 p0220 N84-11443 #
DE83-016316 ..... 03 p0419 N84-12738 #
DE83-016323 ..... 04 p0538 N84-13540 #
DE83-016324 ..... 03 p0367 N84-12392 #
DE83-016334 ..... 03 p0445 N84-12926 #
DE83-016338 ..... 07 p1073 N84-16972 #
DE83-016351 ..... 02 p0186 N84-11211 #
DE83-016353 ..... 04 p0610 N84-14023 #
DE83-016364 ..... 02 p0196 N84-11277 #
DE83-016367 ..... 04 p0565 N84-13722 #
DE83-016370 ..... 02 p0228 N84-11493 #
DE83-016371 ..... 03 p0347 N84-12256 #
DE83-016389 ..... 03 p0350 N84-12277 #
DE83-016394 ..... 02 p0220 N84-11445 #
DE83-016397 ..... 03 p0437 N84-12868 #
DE83-016408 ..... 02 p0291 N84-11910 #
DE83-016409 ..... 02 p0196 N84-11271 #
DE83-016415 ..... 02 p0274 N84-11795 #
DE83-016419 ..... 03 p0373 N84-12429 #
DE83-016425 ..... 01 p0091 N84-10594 #
DE83-016441 ..... 04 p0602 N84-13976 #
DE83-016454 ..... 02 p0301 N84-11974 #
DE83-016460 ..... 02 p0283 N84-11853 #
DE83-016463 ..... 02 p0296 N84-11941 #
DE83-016470 ..... 02 p0299 N84-11963 #
DE83-016471 ..... 02 p0244 N84-11598 #
DE83-016503 ..... 02 p0228 N84-11494 #
DE83-016504 ..... 03 p0368 N84-12393 #
DE83-016505 ..... 02 p0224 N84-11470 #
DE83-016508 ..... 02 p0191 N84-11240 #
DE83-016515 ..... 02 p0188 N84-11225 #
DE83-016518 ..... 02 p0232 N84-11525 #
DE83-016521 ..... 03 p0404 N84-12646 #
DE83-016522 ..... 03 p0434 N84-12848 #
DE83-016524 ..... 02 p0227 N84-11491 #
DE83-016525 ..... 02 p0299 N84-11964 #
DE83-016531 ..... 02 p0283 N84-11852 #
DE83-016535 ..... 03 p0447 N84-12937 #
DE83-016537 ..... 03 p0381 N84-12479 #
DE83-016568 ..... 03 p0446 N84-12932 #
DE83-016576 ..... 04 p0582 N84-13843 #
DE83-016586 ..... 03 p0353 N84-12295 #
DE83-016588 ..... 02 p0191 N84-11239 #
DE83-016589 ..... 03 p0438 N84-12876 #
DE83-016599 ..... 03 p0401 N84-12623 #
DE83-016603 ..... 01 p0075 N84-10492 #
DE83-016604 ..... 04 p0495 N84-13250 #
DE83-016607 ..... 03 p0420 N84-12749 #
DE83-016618 ..... 03 p0401 N84-12624 #
DE83-016619 ..... 02 p0195 N84-11269 #
DE83-016622 ..... 02 p0292 N84-11913 #
DE83-016626 ..... 05 p0660 N84-14341 #
DE83-016627 ..... 10 p1457 N84-19515 #
DE83-016629 ..... 04 p0541 N84-13563 #
DE83-016630 ..... 02 p0215 N84-11411 #
DE83-016639 ..... 04 p0538 N84-13542 #
DE83-016641 ..... 02 p0256 N84-11676 #
DE83-016644 ..... 04 p0594 N84-13919 #
DE83-016645 ..... 04 p0554 N84-13652 #
DE83-016646 ..... 03 p0430 N84-12817 #
DE83-016647 ..... 03 p0419 N84-12734 #
DE83-016648 ..... 02 p0256 N84-11678 #
DE83-016673 ..... 02 p0250 N84-11636 #
DE83-016680 ..... 03 p0356 N84-12320 #
DE83-016696 ..... 04 p0558 N84-13680 #
DE83-016697 ..... 03 p0455 N84-12993 #
DE83-016700 ..... 02 p0191 N84-11243 #
DE83-016709 ..... 03 p0446 N84-12934 #
DE83-016711 ..... 03 p0446 N84-12936 #

DE83-016717 ..... 03 p0353 N84-12294 #
DE83-016730 ..... 04 p0615 N84-14058 #
DE83-016731 ..... 02 p0299 N84-11966 #
DE83-016733 ..... 03 p0390 N84-12541 #
DE83-016734 ..... 03 p0456 N84-12999 #
DE83-016745 ..... 04 p0609 N84-14022 #
DE83-016756 ..... 08 p1233 N84-18056 #
DE83-016757 ..... 01 p0091 N84-10596 #
DE83-016758 ..... 04 p0609 N84-14021 #
DE83-016763 ..... 04 p0582 N84-13840 #
DE83-016768 ..... 02 p0201 N84-11312 #
DE83-016769 ..... 02 p0201 N84-11310 #
DE83-016771 ..... 03 p0449 N84-12953 #
DE83-016772 ..... 02 p0196 N84-11276 #
DE83-016773 ..... 02 p0283 N84-11855* #
DE83-016781 ..... 02 p0195 N84-11270 #
DE83-016784 ..... 03 p0405 N84-12649 #
DE83-016789 ..... 04 p0571 N84-13761 #
DE83-016790 ..... 03 p0449 N84-12955 #
DE83-016791 ..... 03 p0401 N84-12625 #
DE83-016792 ..... 03 p0402 N84-12627 #
DE83-016812 ..... 03 p0449 N84-12950 #
DE83-016815 ..... 02 p0197 N84-11280 #
DE83-016826 ..... 03 p0427 N84-12803 #
DE83-016840 ..... 12 p1822 N84-21877* #
DE83-016845 ..... 03 p0404 N84-12645 #
DE83-016849 ..... 03 p0455 N84-12992 #
DE83-016853 ..... 03 p0405 N84-12648 #
DE83-016854 ..... 04 p0565 N84-13723 #
DE83-016861 ..... 01 p0151 N84-10992 #
DE83-016878 ..... 04 p0609 N84-14018 #
DE83-016881 ..... 03 p0449 N84-12951 #
DE83-016887 ..... 03 p0457 N84-13005 #
DE83-016890 ..... 01 p0097 N84-10634 #
DE83-016903 ..... 03 p0421 N84-12751 #
DE83-016906 ..... 03 p0355 N84-12308 #
DE83-016913 ..... 02 p0197 N84-11279 #
DE83-016914 ..... 02 p0206 N84-11344 #
DE83-016916 ..... 03 p0446 N84-12929 #
DE83-016924 ..... 03 p0458 N84-13014 #
DE83-016927 ..... 04 p0502 N84-13289 #
DE83-016930 ..... 03 p0404 N84-12643 #
DE83-016932 ..... 03 p0449 N84-12956 #
DE83-016935 ..... 03 p0354 N84-12300 #
DE83-016941 ..... 03 p0380 N84-12478 #
DE83-016942 ..... 04 p0607 N84-14009 #
DE83-016957 ..... 03 p0382 N84-12489 #
DE83-016990 ..... 03 p0421 N84-12752 #
DE83-017005 ..... 07 p0976 N84-16322 #
DE83-017012 ..... 01 p0091 N84-10595 #
DE83-017016 ..... 03 p0436 N84-12856 #
DE83-017022 ..... 03 p0446 N84-12935 #
DE83-017023 ..... 02 p0204 N84-11331 #
DE83-017025 ..... 02 p0204 N84-11332 #
DE83-017039 ..... 23 p3751 N84-33775 #
DE83-017047 ..... 03 p0358 N84-12327 #
DE83-017051 ..... 03 p0354 N84-12301 #
DE83-017067 ..... 03 p0390 N84-12542 #
DE83-017085 ..... 03 p0409 N84-12673 #
DE83-017121 ..... 03 p0373 N84-12431 #
DE83-017131 ..... 06 p0893 N84-15799 #
DE83-017137 ..... 04 p0537 N84-13529 #
DE83-017145 ..... 03 p0354 N84-12305 #
DE83-017148 ..... 08 p1232 N84-18055 #
DE83-017152 ..... 03 p0455 N84-12998 #
DE83-017158 ..... 04 p0536 N84-13522 #
DE83-017159 ..... 06 p0807 N84-15259 #
DE83-017160 ..... 11 p1704 N84-21109 #
DE83-017161 ..... 03 p0450 N84-12962 #
DE83-017177 ..... 03 p0450 N84-12961 #
DE83-017179 ..... 03 p0421 N84-12755 #
DE83-017188 ..... 04 p0504 N84-13306 #
DE83-017189 ..... 03 p0354 N84-12304 #
DE83-017190 ..... 03 p0354 N84-12303 #
DE83-017191 ..... 04 p0501 N84-13288 #
DE83-017194 ..... 04 p0537 N84-13533 #
DE83-017203 ..... 20 p3157 N84-30050 #
DE83-017205 ..... 03 p0436 N84-12863 #
DE83-017206 ..... 04 p0609 N84-14017 #
DE83-017210 ..... 03 p0450 N84-12958 #
DE83-017211 ..... 03 p0437 N84-12867 #
DE83-017215 ..... 03 p0436 N84-12860 #
DE83-017218 ..... 04 p0536 N84-13526 #
DE83-017224 ..... 04 p0560 N84-13692 #
DE83-017226 ..... 04 p0571 N84-13764 #
DE83-017229 ..... 04 p0614 N84-14051 #
DE83-017230 ..... 03 p0381 N84-12481 #
DE83-017233 ..... 03 p0442 N84-12905 #
DE83-017234 ..... 03 p0442 N84-12904 #
DE83-017235 ..... 03 p0381 N84-12484 #
DE83-017246 ..... 03 p0450 N84-12959 #
DE83-017253 ..... 03 p0455 N84-12997 #
DE83-017262 ..... 03 p0455 N84-12995 #
DE83-017266 ..... 06 p0813 N84-15290 #
DE83-017272 ..... 03 p0373 N84-12430 #
DE83-017273 ..... 04 p0529 N84-13479 #
DE83-017276 ..... 03 p0384 N84-12504 #
DE83-017279 ..... 03 p0384 N84-12501 #
DE83-017282 ..... 04 p0545 N84-13590 #
DE83-017283 ..... 03 p0384 N84-12500 #
DE83-017284 ..... 06 p0853 N84-15560 #
DE83-017290 ..... 03 p0382 N84-12485 #
DE83-017291 ..... 04 p0529 N84-13478 #
DE83-017292 ..... 06 p0925 N84-16012 #
DE83-017293 ..... 03 p0447 N84-12939 #
DE83-017297 ..... 04 p0620 N84-14092 #
DE83-017300 ..... 04 p0536 N84-13528 #
DE83-017302 ..... 03 p0439 N84-12882 #
DE83-017303 ..... 03 p0381 N84-12483 #
DE83-017304 ..... 04 p0620 N84-14091 #
DE83-017305 ..... 03 p0440 N84-12888 #
DE83-017308 ..... 11 p1717 N84-21199 #
DE83-017311 ..... 04 p0608 N84-14013 #
DE83-017312 ..... 04 p0583 N84-13850 #
DE83-017313 ..... 22 p3588 N84-32723 #
DE83-017326 ..... 04 p0621 N84-14097 #
DE83-017327 ..... 04 p0603 N84-13983 #
DE83-017328 ..... 04 p0515 N84-13386 #
DE83-017351 ..... 04 p0603 N84-13982 #
DE83-017352 ..... 03 p0390 N84-12545 #
DE83-017353 ..... 03 p0357 N84-12322 #
DE83-017356 ..... 03 p0437 N84-12866 #
DE83-017362 ..... 18 p2848 N84-28086 #
DE83-017365 ..... 03 p0449 N84-12954 #
DE83-017366 ..... 03 p0382 N84-12486 #
DE83-017368 ..... 03 p0368 N84-12397 #
DE83-017369 ..... 03 p0448 N84-12948 #
DE83-017371 ..... 04 p0507 N84-13324 #
DE83-017373 ..... 04 p0586 N84-13868 #
DE83-017403 ..... 04 p0528 N84-13473 #
DE83-017404 ..... 07 p1043 N84-16761 #
DE83-017415 ..... 03 p0423 N84-12767 #
DE83-017417 ..... 03 p0412 N84-12693 #
DE83-017422 ..... 04 p0582 N84-13846 #
DE83-017447 ..... 03 p0414 N84-12710 #
DE83-017470 ..... 03 p0448 N84-12949 #
DE83-017473 ..... 04 p0605 N84-13993 #
DE83-017477 ..... 03 p0450 N84-12957 #
DE83-017484 ..... 03 p0384 N84-12503 #
DE83-017493 ..... 01 p0162 N84-11067 #
DE83-017494 ..... 03 p0355 N84-12309 #
DE83-017495 ..... 04 p0572 N84-13766 #
DE83-017496 ..... 03 p0449 N84-12952 #
DE83-017514 ..... 03 p0378 N84-12459 #
DE83-017528 ..... 04 p0536 N84-13525 #
DE83-017531 ..... 03 p0390 N84-12546 #
DE83-017535 ..... 04 p0528 N84-13475 #
DE83-017536 ..... 20 p3236 N84-30540 #
DE83-017546 ..... 03 p0421 N84-12750 #
DE83-017547 ..... 04 p0585 N84-13865 #
DE83-017561 ..... 04 p0600 N84-13960 #
DE83-017571 ..... 03 p0406 N84-12657 #
DE83-017591 ..... 04 p0594 N84-13918 #
DE83-017600 ..... 06 p0886 N84-15761 #
DE83-017615 ..... 04 p0545 N84-13589 #
DE83-017618 ..... 04 p0583 N84-13849 #
DE83-017620 ..... 04 p0601 N84-13967 #
DE83-017621 ..... 04 p0590 N84-13902 #
DE83-017681 ..... 06 p0811 N84-15279 #
DE83-017683 ..... 03 p0386 N84-12513 #
DE83-017684 ..... 03 p0390 N84-12547 #
DE83-017685 ..... 03 p0385 N84-12512 #
DE83-017686 ..... 04 p0549 N84-13620 #
DE83-017688 ..... 04 p0608 N84-14014 #
DE83-017692 ..... 03 p0382 N84-12353 #
DE83-017693 ..... 03 p0431 N84-12827 #
DE83-017695 ..... 03 p0351 N84-12282 #
DE83-017696 ..... 03 p0437 N84-12864 #
DE83-017697 ..... 04 p0554 N84-13647 #
DE83-017699 ..... 04 p0568 N84-13743 #
DE83-017700 ..... 03 p0351 N84-12281 #
DE83-017724 ..... 03 p0350 N84-12275 #
DE83-017739 ..... 04 p0495 N84-13251 #
DE83-017741 ..... 04 p0515 N84-13384 #
DE83-017742 ..... 03 p0436 N84-12861 #
DE83-017744 ..... 03 p0350 N84-12276 #
DE83-017747 ..... 04 p0600 N84-13961 #
DE83-017749 ..... 04 p0613 N84-14049 #
DE83-017762 ..... 04 p0600 N84-13963 #
DE83-017764 ..... 04 p0515 N84-13385 #
DE83-017765 ..... 03 p0431 N84-12826 #
DE83-017767 ..... 04 p0535 N84-13520 #
DE83-017779 ..... 04 p0508 N84-13327 #
DE83-017780 ..... 12 p1843 N84-22014 #
DE83-017784 ..... 03 p0436 N84-12857 #
DE83-017785 ..... 04 p0538 N84-13541 #
DE83-017791 ..... 04 p0608 N84-14012 #
DE83-017792 ..... 03 p0447 N84-12942 #
DE83-017793 ..... 04 p0608 N84-14010 #
DE83-017800 ..... 03 p0447 N84-12941 #
DE83-017801 ..... 05 p0755 N84-14954 #
DE83-017822 ..... 03 p0447 N84-12943 #

DE83-017823	03	p0431	N84-12823	#
DE83-017824	03	p0448	N84-12945	#
DE83-017830	04	p0546	N84-13600	#
DE83-017832	04	p0523	N84-13438	#
DE83-017834	04	p0608	N84-14015	#
DE83-017836	03	p0448	N84-12946	#
DE83-017839	04	p0605	N84-13992	#
DE83-017840	03	p0447	N84-12940	#
DE83-017865	04	p0522	N84-13435	#
DE83-017870	03	p0428	N84-12804	#
DE83-017873	04	p0564	N84-13721	#
DE83-017875	04	p0614	N84-14050	#
DE83-017880	04	p0560	N84-13691	#
DE83-017885	04	p0550	N84-13624	#
DE83-017886	04	p0583	N84-13847	#
DE83-017893	12	p1816	N84-21838	#
DE83-017897	04	p0564	N84-13720	#
DE83-017914	03	p0350	N84-12274	#
DE83-017923	04	p0595	N84-13929	#
DE83-017925	04	p0527	N84-13469	#
DE83-017926	03	p0368	N84-12396	#
DE83-017927	04	p0585	N84-13864	#
DE83-017929	04	p0600	N84-13962	#
DE83-017930	04	p0564	N84-13717	#
DE83-017932	04	p0581	N84-13837	#
DE83-017936	04	p0528	N84-13472	#
DE83-017937	03	p0355	N84-12306	#
DE83-017939	03	p0368	N84-12395	#
DE83-017942	04	p0564	N84-13718	#
DE83-017945	04	p0581	N84-13838	#
DE83-017955	03	p0428	N84-12805	#
DE83-017958	04	p0601	N84-13964	#
DE83-017960	05	p0652	N84-14284	#
DE83-017963	03	p0436	N84-12859	#
DE83-017964	03	p0414	N84-12709	#
DE83-017972	04	p0523	N84-13437	#
DE83-017973	03	p0368	N84-12394	#
DE83-017974	04	p0600	N84-13959	#
DE83-017982	04	p0571	N84-13760	#
DE83-017986	04	p0616	N84-14067	#
DE83-017987	04	p0578	N84-13809	#
DE83-017988	03	p0347	N84-12253	#
DE83-017989	04	p0536	N84-13527	#
DE83-017994	03	p0321	N84-12097	#
DE83-018005	04	p0528	N84-13471	#
DE83-018027	04	p0610	N84-14028	#
DE83-018073	04	p0546	N84-13599	#
DE83-018074	03	p0355	N84-12307	#
DE83-018075	03	p0351	N84-12280	#
DE83-018076	04	p0546	N84-13598	#
DE83-018077	03	p0347	N84-12259	#
DE83-018078	03	p0442	N84-12903	#
DE83-018079	03	p0347	N84-12252	#
DE83-018080	03	p0431	N84-12825	#
DE83-018081	03	p0333	N84-12167	#
DE83-018082	04	p0595	N84-13928	#
DE83-018083	04	p0550	N84-13621	#
DE83-018085	04	p0601	N84-13965	#
DE83-018086	04	p0596	N84-13930	#
DE83-018091	06	p0924	N84-16010	#
DE83-018092	03	p0431	N84-12824	#
DE83-018113	04	p0582	N84-13839	#
DE83-018114	04	p0528	N84-13470	#
DE83-018117	03	p0404	N84-12640	#
DE83-018118	03	p0447	N84-12938	#
DE83-018119	04	p0496	N84-13253	#
DE83-018120	03	p0448	N84-12947	#
DE83-018181	04	p0605	N84-13995	#
DE83-018184	04	p0542	N84-13569	#
DE83-018185	06	p0918	N84-15968	#
DE83-018186	04	p0529	N84-13477	#
DE83-018188	04	p0542	N84-13568	#
DE83-018189	06	p0925	N84-16011	#
DE83-018216	04	p0541	N84-13558	#
DE83-018219	03	p0439	N84-12879	#
DE83-018226	04	p0555	N84-13654	#
DE83-018227	04	p0550	N84-13625	#
DE83-018235	03	p0421	N84-12753	#
DE83-018261	03	p0419	N84-12735	#
DE83-018263	03	p0448	N84-12944	#
DE83-018264	03	p0436	N84-12858	#
DE83-018275	04	p0528	N84-13476	#
DE83-018288	03	p0378	N84-12458	#
DE83-018297	04	p0503	N84-13300	#
DE83-018300	04	p0611	N84-14030	#
DE83-704748	24	p3884	N84-34612	#
DE83-900107	01	p0080	N84-10522	#
DE83-900676	01	p0097	N84-10629	#
DE83-900677	01	p0044	N84-10285	#
DE83-900734	01	p0097	N84-10630	#
DE83-901909	01	p0053	N84-10340	#
DE83-902192	02	p0274	N84-11793	#
DE83-902228	01	p0045	N84-10287	#
DE83-902229	01	p0045	N84-10286	#
DE83-902237	02	p0304	N84-11993	#
DE83-902290	01	p0048	N84-10307	#
DE83-902302	01	p0073	N84-10476	#
DE83-902304	01	p0045	N84-10292	#
DE83-902538	03	p0401	N84-12620	#
DE83-902641	03	p0377	N84-12456	#
DE83-902691	02	p0215	N84-11407	#
DE83-902886	02	p0240	N84-11576	#
DE83-903011	03	p0401	N84-12621	#
DE83-0124200	02	p0214	N84-11399	#
DE83-0165765	02	p0295	N84-11934	#
DE83-0166222	03	p0456	N84-13004	#
DE83-3013560	02	p0274	N84-11792	#
DE83-3014268	03	p0426	N84-12788	#
DE83-4000123	03	p0419	N84-12736	#
DE84-000003	04	p0570	N84-13758	#
DE84-000005	06	p0874	N84-15689	#
DE84-000006	20	p3247	N84-30605	#
DE84-000008	04	p0557	N84-13675	#
DE84-000009	04	p0568	N84-13744	#
DE84-000011	12	p1918	N84-22494	#
DE84-000012	12	p1816	N84-21839	#
DE84-000013	06	p0909	N84-15905	#
DE84-000016	08	p1138	N84-17402	#
DE84-000018	11	p1674	N84-20927	#
DE84-000019	07	p1003	N84-16505	#
DE84-000020	07	p0971	N84-16293	#
DE84-000022	07	p1083	N84-17043	#
DE84-000024	12	p1843	N84-22016	#
DE84-000027	12	p1844	N84-22022	#
DE84-000030	10	p1482	N84-19688	#
DE84-000042	04	p0536	N84-13523	#
DE84-000048	04	p0610	N84-14027	#
DE84-000049	04	p0610	N84-14024	#
DE84-000052	10	p1505	N84-19837	#
DE84-000061	04	p0504	N84-13301	#
DE84-000063	08	p1221	N84-17973	#
DE84-000066	04	p0559	N84-13683	#
DE84-000067	04	p0559	N84-13685	#
DE84-000071	04	p0542	N84-13566	#
DE84-000073	04	p0507	N84-13322	#
DE84-000079	20	p3235	N84-30535	#
DE84-000080	11	p1675	N84-20928	#
DE84-000081	20	p3235	N84-30534	#
DE84-000082	14	p2132	N84-23780	#
DE84-000083	20	p3235	N84-30536	#
DE84-000086	15	p2374	N84-25244	#
DE84-000087	12	p1843	N84-22018	#
DE84-000089	22	p3619	N84-32929	#
DE84-000090	20	p3163	N84-30084	#
DE84-000093	11	p1675	N84-20929	#
DE84-000094	10	p1530	N84-20022	#
DE84-000095	20	p3315	N84-31057	#
DE84-000101	05	p0754	N84-14949	#
DE84-000102	04	p0610	N84-14029	#
DE84-000103	04	p0610	N84-14026	#
DE84-000107	04	p0558	N84-13681	#
DE84-000109	04	p0523	N84-13439	#
DE84-000112	04	p0603	N84-13984	#
DE84-000114	04	p0569	N84-13752	#
DE84-000115	04	p0602	N84-13977	#
DE84-000117	04	p0527	N84-13465	#
DE84-000118	05	p0745	N84-14893	#
DE84-000121	04	p0555	N84-13653	#
DE84-000129	04	p0541	N84-13564	#
DE84-000133	04	p0545	N84-13587	#
DE84-000136	06	p0924	N84-16006	#
DE84-000138	04	p0529	N84-13481	#
DE84-000153	04	p0501	N84-13287	#
DE84-000154	04	p0545	N84-13588	#
DE84-000156	04	p0583	N84-13848	#
DE84-000159	04	p0540	N84-13553	#
DE84-000163	04	p0597	N84-13938	#
DE84-000164	04	p0491	N84-13220	#
DE84-000165	04	p0560	N84-13689	#
DE84-000174	04	p0496	N84-13252	#
DE84-000178	11	p1644	N84-20752	#
DE84-000181	04	p0564	N84-13716	#
DE84-000184	04	p0500	N84-13279	#
DE84-000185	06	p0939	N84-16102	#
DE84-000192	04	p0582	N84-13841	#
DE84-000193	04	p0560	N84-13693	#
DE84-000209	15	p2298	N84-24792	#
DE84-000244	04	p0501	N84-13286	#
DE84-000258	04	p0606	N84-14001	#
DE84-000260	04	p0502	N84-13294	#
DE84-000296	04	p0613	N84-14045	#
DE84-000301	04	p0541	N84-13565	#
DE84-000302	04	p0582	N84-13842	#
DE84-000311	04	p0597	N84-13941	#
DE84-000314	04	p0492	N84-13229	#
DE84-000323	05	p0688	N84-14523	#
DE84-000332	06	p0822	N84-15358	#
DE84-000333	04	p0606	N84-14000	#
DE84-000334	04	p0601	N84-13971	#
DE84-000338	04	p0502	N84-13293	#
DE84-000339	04	p0501	N84-13285	#
DE84-000345	04	p0616	N84-14068	#

DE84-000346 ..... 04 p0571 N84-13759 #
DE84-000353 ..... 04 p0503 N84-13297 #
DE84-000354 ..... 06 p0924 N84-16008 #
DE84-000355 ..... 06 p0807 N84-15258 #
DE84-000356 ..... 04 p0597 N84-13940 #
DE84-000357 ..... 04 p0598 N84-13949 #
DE84-000359 ..... 04 p0581 N84-13835 #
DE84-000361 ..... 04 p0492 N84-13231 #
DE84-000362 ..... 04 p0541 N84-13559 #
DE84-000363 ..... 04 p0541 N84-13562 #
DE84-000364 ..... 04 p0594 N84-13917
DE84-000369 ..... 04 p0607 N84-14003 #
DE84-000375 ..... 05 p0676 N84-14448 #
DE84-000384 ..... 05 p0755 N84-14953 #
DE84-000391 ..... 06 p0921 N84-15968 #
DE84-000393 ..... 04 p0614 N84-14054 #
DE84-000400 ..... 04 p0538 N84-13538 #
DE84-000404 ..... 04 p0544 N84-13586 #
DE84-000406 ..... 04 p0559 N84-13686 #
DE84-000411 ..... 04 p0503 N84-13296 #
DE84-000412 ..... 04 p0499 N84-13275 #
DE84-000439 ..... 04 p0530 N84-13484 #
DE84-000440 ..... 04 p0554 N84-13650 #
DE84-000447 ..... 04 p0564 N84-13719 #
DE84-000451 ..... 04 p0508 N84-13328 #
DE84-000452 ..... 04 p0507 N84-13323 #
DE84-000456 ..... 04 p0599 N84-13954 #
DE84-000457 ..... 04 p0597 N84-13939 #
DE84-000458 ..... 04 p0599 N84-13951 #
DE84-000463 ..... 04 p0820 N84-14093 #
DE84-000468 ..... 04 p0527 N84-13464 #
DE84-000469 ..... 04 p0578 N84-13810 #
DE84-000476 ..... 04 p0596 N84-13944 #
DE84-000477 ..... 04 p0502 N84-13291 #
DE84-000482 ..... 04 p0549 N84-13619 #
DE84-000510 ..... 04 p0610 N84-14025 #
DE84-000516 ..... 04 p0492 N84-13230 #
DE84-000517 ..... 04 p0600 N84-13957 #
DE84-000524 ..... 04 p0510 N84-13340 #
DE84-000526 ..... 04 p0582 N84-13845 #
DE84-000528 ..... 04 p0527 N84-13467 #
DE84-000529 ..... 20 p3257 N84-30672 #
DE84-000565 ..... 04 p0611 N84-14035 #
DE84-000566 ..... 04 p0580 N84-13690 #
DE84-000568 ..... 04 p0614 N84-14053 #
DE84-000586 ..... 04 p0542 N84-13567 #
DE84-000588 ..... 04 p0494 N84-13241 #
DE84-000592 ..... 04 p0616 N84-14066 #
DE84-000593 ..... 04 p0502 N84-13292 #
DE84-000597 ..... 04 p0500 N84-13277 #
DE84-000599 ..... 04 p0614 N84-14052 #
DE84-000600 ..... 04 p0617 N84-14073 #
DE84-000611 ..... 04 p0503 N84-13295 #
DE84-000612 ..... 04 p0529 N84-13480 #
DE84-000614 ..... 04 p0540 N84-13554 #
DE84-000623 ..... 07 p0975 N84-16316 #
DE84-000627 ..... 10 p1487 N84-19721 #
DE84-000629 ..... 04 p0494 N84-13243 #
DE84-000638 ..... 04 p0559 N84-13684 #
DE84-000640 ..... 04 p0540 N84-13556 #
DE84-000643 ..... 04 p0522 N84-13434 #
DE84-000653 ..... 04 p0527 N84-13466 #
DE84-000663 ..... 04 p0537 N84-13531 #
DE84-000677 ..... 04 p0542 N84-13571 #
DE84-000679 ..... 04 p0504 N84-13304 #
DE84-000690 ..... 04 p0554 N84-13648 #
DE84-000691 ..... 04 p0500 N84-13278 #
DE84-000712 ..... 06 p0813 N84-15291 #
DE84-000713 ..... 04 p0558 N84-13677 #
DE84-000722 ..... 04 p0598 N84-13943 #
DE84-000723 ..... 04 p0607 N84-14008 #
DE84-000724 ..... 04 p0606 N84-14002 #
DE84-000725 ..... 04 p0504 N84-13305 #
DE84-000791 ..... 07 p0999 N84-16479 #
DE84-000800 ..... 04 p0534 N84-13511 #
DE84-000805 ..... 04 p0499 N84-13273 #
DE84-000823 ..... 04 p0611 N84-14032 #
DE84-000824 ..... 04 p0542 N84-13570 #
DE84-000840 ..... 04 p0545 N84-13591 #
DE84-000849 ..... 03 p0368 N84-12398 #
DE84-000872 ..... 04 p0601 N84-13966 #
DE84-000895 ..... 06 p0804 N84-15240 #
DE84-000903 ..... 04 p0504 N84-13302 #
DE84-000911 ..... 06 p0898 N84-15831 #
DE84-000914 ..... 15 p2298 N84-24793 #
DE84-000916 ..... 04 p0534 N84-13512 #
DE84-000917 ..... 04 p0622 N84-14104 #
DE84-000926 ..... 04 p0493 N84-13239 #
DE84-000930 ..... 05 p0651 N84-14283 #
DE84-000939 ..... 05 p0697 N84-14578 #
DE84-000943 ..... 04 p0555 N84-13655 #
DE84-000945 ..... 04 p0535 N84-13515 #
DE84-000956 ..... 04 p0602 N84-13973 #
DE84-000957 ..... 04 p0494 N84-13245 #
DE84-000963 ..... 04 p0558 N84-13678 #
DE84-000967 ..... 04 p0558 N84-13679 #
DE84-000978 ..... 04 p0528 N84-13474 #
DE84-000979 ..... 04 p0502 N84-13290 #
DE84-000993 ..... 04 p0601 N84-13966 #
DE84-000996 ..... 04 p0534 N84-13514 #
DE84-000999 ..... 04 p0494 N84-13240 #
DE84-001000 ..... 04 p0494 N84-13244 #
DE84-001004 ..... 15 p2395 N84-25369 #
DE84-001017 ..... 04 p0597 N84-13942 #
DE84-001018 ..... 04 p0590 N84-13901 #
DE84-001022 ..... 08 p1152 N84-17502 #
DE84-001028 ..... 05 p0704 N84-14618 #
DE84-001038 ..... 04 p0541 N84-13560 #
DE84-001039 ..... 04 p0622 N84-14105 #
DE84-001055 ..... 06 p0924 N84-16004 #
DE84-001064 ..... 19 p3079 N84-29538 #
DE84-001068 ..... 04 p0585 N84-13863 #
DE84-001083 ..... 07 p1068 N84-16939 #
DE84-001085 ..... 12 p1823 N84-21884 #
DE84-001086 ..... 04 p0492 N84-13228 #
DE84-001090 ..... 05 p0700 N84-14596 #
DE84-001101 ..... 05 p0759 N84-14982 #
DE84-001103 ..... 05 p0745 N84-14895 #
DE84-001105 ..... 04 p0613 N84-14046 #
DE84-001123 ..... 05 p0756 N84-14957 #
DE84-001124 ..... 04 p0523 N84-13441 #
DE84-001126 ..... 05 p0712 N84-14664 #
DE84-001132 ..... 04 p0615 N84-14059 #
DE84-001135 ..... 06 p0890 N84-15785 #
DE84-001137 ..... 04 p0550 N84-13622 #
DE84-001142 ..... 05 p0741 N84-14866 #
DE84-001157 ..... 04 p0613 N84-14047 #
DE84-001172 ..... 06 p0845 N84-15510 #
DE84-001174 ..... 05 p0677 N84-14449 #
DE84-001175 ..... 04 p0496 N84-13255 #
DE84-001177 ..... 19 p3073 N84-29496 #
DE84-001180 ..... 04 p0500 N84-13280 #
DE84-001182 ..... 06 p0807 N84-15256 #
DE84-001201 ..... 09 p1290 N84-18425 #
DE84-001203 ..... 04 p0503 N84-13299 #
DE84-001206 ..... 04 p0503 N84-13298 #
DE84-001208 ..... 06 p0916 N84-15953 #
DE84-001215 ..... 04 p0613 N84-14044 #
DE84-001227 ..... 04 p0554 N84-13649 #
DE84-001236 ..... 06 p0802 N84-15226 #
DE84-001237 ..... 04 p0540 N84-13557 #
DE84-001238 ..... 04 p0490 N84-13219 #
DE84-001252 ..... 04 p0527 N84-13468 #
DE84-001266 ..... 07 p1053 N84-16817 #
DE84-001270 ..... 09 p1276 N84-18335 #
DE84-001275 ..... 05 p0694 N84-14554 #
DE84-001276 ..... 04 p0499 N84-13276 #
DE84-001277 ..... 04 p0549 N84-13618 #
DE84-001278 ..... 04 p0597 N84-13937 #
DE84-001279 ..... 04 p0607 N84-14006 #
DE84-001292 ..... 04 p0544 N84-13585 #
DE84-001296 ..... 04 p0500 N84-13281 #
DE84-001297 ..... 04 p0500 N84-13282 #
DE84-001298 ..... 04 p0501 N84-13283 #
DE84-001300 ..... 21 p3367 N84-31359 #
DE84-001301 ..... 07 p1093 N84-17111* #
DE84-001302 ..... 07 p1094 N84-17114 #
DE84-001311 ..... 04 p0508 N84-13329 #
DE84-001312 ..... 06 p0941 N84-16114 #
DE84-001314 ..... 07 p1072 N84-16988 #
DE84-001320 ..... 07 p1094 N84-17113 #
DE84-001323 ..... 04 p0599 N84-13956 #
DE84-001324 ..... 04 p0494 N84-13246 #
DE84-001325 ..... 06 p0886 N84-15762 #
DE84-001326 ..... 04 p0495 N84-13248 #
DE84-001328 ..... 04 p0598 N84-13948 #
DE84-001330 ..... 04 p0599 N84-13953 #
DE84-001334 ..... 05 p0766 N84-15022 #
DE84-001335 ..... 04 p0599 N84-13952 #
DE84-001336 ..... 04 p0599 N84-13950 #
DE84-001337 ..... 04 p0598 N84-13946 #
DE84-001338 ..... 04 p0542 N84-13572 #
DE84-001341 ..... 04 p0535 N84-13516 #
DE84-001344 ..... 04 p0523 N84-13440 #
DE84-001345 ..... 04 p0488 N84-13203 #
DE84-001346 ..... 04 p0522 N84-13433 #
DE84-001354 ..... 04 p0596 N84-13936 #
DE84-001355 ..... 07 p1094 N84-17112* #
DE84-001359 ..... 04 p0613 N84-14048 #
DE84-001361 ..... 04 p0515 N84-13387 #
DE84-001362 ..... 04 p0607 N84-14005 #
DE84-001365 ..... 04 p0540 N84-13555 #
DE84-001366 ..... 04 p0611 N84-14031 #
DE84-001368 ..... 12 p1843 N84-22017 #
DE84-001369 ..... 04 p0602 N84-13975 #
DE84-001373 ..... 05 p0656 N84-14314 #
DE84-001389 ..... 11 p1758 N84-21479 #
DE84-001396 ..... 04 p0599 N84-13955 #
DE84-001400 ..... 04 p0601 N84-13970 #
DE84-001401 ..... 05 p0755 N84-14956 #
DE84-001402 ..... 04 p0509 N84-13339 #
DE84-001405 ..... 05 p0714 N84-14676 #

DE84-001410 ..... 14 p2128 N84-23758 #
DE84-001412 ..... 05 p0760 N84-14963 #
DE84-001414 ..... 04 p0616 N84-14069 #
DE84-001416 ..... 04 p0504 N84-13303 #
DE84-001421 ..... 04 p0598 N84-13947 #
DE84-001422 ..... 04 p0539 N84-13543 #
DE84-001424 ..... 08 p1152 N84-17501 #
DE84-001427 ..... 07 p0972 N84-16301 #
DE84-001430 ..... 05 p0676 N84-14447 #
DE84-001444 ..... 05 p0745 N84-14894 #
DE84-001448 ..... 06 p0810 N84-15277 #
DE84-001449 ..... 04 p0495 N84-13247 #
DE84-001450 ..... 04 p0622 N84-14106 #
DE84-001451 ..... 04 p0538 N84-13539 #
DE84-001452 ..... 07 p1003 N84-16508 #
DE84-001455 ..... 05 p0701 N84-14597 #
DE84-001456 ..... 05 p0671 N84-14409 #
DE84-001460 ..... 04 p0614 N84-14056 #
DE84-001463 ..... 06 p0855 N84-15569 #
DE84-001466 ..... 05 p0685 N84-14504 #
DE84-001467 ..... 07 p0975 N84-16320 #
DE84-001468 ..... 06 p0806 N84-15254 #
DE84-001470 ..... 06 p0862 N84-15615 #
DE84-001471 ..... 04 p0601 N84-13969 #
DE84-001474 ..... 05 p0656 N84-14315 #
DE84-001484 ..... 06 p0806 N84-15255 #
DE84-001491 ..... 04 p0614 N84-14055 #
DE84-001500 ..... 05 p0693 N84-14553 #
DE84-001509 ..... 05 p0750 N84-14927 #
DE84-001511 ..... 04 p0572 N84-13765 #
DE84-001525 ..... 04 p0593 N84-13913 #
DE84-001529 ..... 04 p0535 N84-13518 #
DE84-001540 ..... 12 p1766 N84-21518 #
DE84-001549 ..... 06 p0916 N84-15954 #
DE84-001556 ..... 07 p1077 N84-17003 #
DE84-001559 ..... 06 p0921 N84-15990 #
DE84-001560 ..... 06 p0921 N84-15985 #
DE84-001562 ..... 06 p0921 N84-15987 #
DE84-001566 ..... 04 p0603 N84-13979 #
DE84-001577 ..... 04 p0535 N84-13519 #
DE84-001578 ..... 04 p0607 N84-14004 #
DE84-001580 ..... 04 p0534 N84-13513 #
DE84-001581 ..... 04 p0592 N84-13907 #
DE84-001586 ..... 04 p0592 N84-13909 #
DE84-001587 ..... 04 p0501 N84-13284 #
DE84-001590 ..... 06 p0874 N84-15687 #
DE84-001594 ..... 04 p0611 N84-14034 #
DE84-001596 ..... 04 p0535 N84-13517 #
DE84-001601 ..... 05 p0750 N84-14925 #
DE84-001605 ..... 04 p0607 N84-14007 #
DE84-001607 ..... 04 p0541 N84-13561 #
DE84-001613 ..... 04 p0563 N84-13714 #
DE84-001632 ..... 04 p0598 N84-13945 #
DE84-001633 ..... 04 p0606 N84-13999 #
DE84-001640 ..... 04 p0526 N84-13462 #
DE84-001641 ..... 04 p0559 N84-13687 #
DE84-001644 ..... 04 p0546 N84-13597 #
DE84-001646 ..... 04 p0611 N84-14033 #
DE84-001653 ..... 05 p0758 N84-14968 #
DE84-001655 ..... 05 p0760 N84-14984 #
DE84-001661 ..... 06 p0940 N84-16105 #
DE84-001665 ..... 04 p0499 N84-13274 #
DE84-001671 ..... 07 p1040 N84-16743 #
DE84-001672 ..... 05 p0741 N84-14869 #
DE84-001679 ..... 04 p0602 N84-13974 #
DE84-001680 ..... 04 p0564 N84-13715 #
DE84-001682 ..... 06 p0851 N84-15547 #
DE84-001685 ..... 04 p0505 N84-13307 #
DE84-001702 ..... 09 p1324 N84-18647 #
DE84-001704 ..... 06 p0925 N84-16014 #
DE84-001705 ..... 07 p0972 N84-16297 #
DE84-001708 ..... 06 p0935 N84-16081 #
DE84-001707 ..... 08 p1241 N84-18110 #
DE84-001708 ..... 06 p0923 N84-16003 #
DE84-001709 ..... 06 p0879 N84-15719 #
DE84-001711 ..... 05 p0750 N84-14924 #
DE84-001715 ..... 05 p0763 N84-15007 #
DE84-001716 ..... 05 p0685 N84-14506 #
DE84-001719 ..... 04 p0508 N84-13330 #
DE84-001720 ..... 05 p0763 N84-15006 #
DE84-001722 ..... 22 p3641 N84-33088 #
DE84-001727 ..... 06 p0845 N84-15511 #
DE84-001730 ..... 06 p0902 N84-15854 #
DE84-001731 ..... 05 p0755 N84-14951 #
DE84-001732 ..... 05 p0676 N84-14443 #
DE84-001733 ..... 06 p0830 N84-15405 #
DE84-001735 ..... 05 p0662 N84-14350 #
DE84-001736 ..... 05 p0656 N84-14310 #
DE84-001745 ..... 21 p3497 N84-32166 #
DE84-001747 ..... 07 p0966 N84-16261 #
DE84-001760 ..... 06 p0894 N84-15810 #
DE84-001766 ..... 05 p0660 N84-14339 #
DE84-001767 ..... 04 p0602 N84-13972 #
DE84-001768 ..... 06 p0831 N84-15406 #
DE84-001770 ..... 08 p1172 N84-17632 #
DE84-001777 ..... 04 p0547 N84-13601 #
DE84-001781 ..... 06 p0845 N84-15509 #
DE84-001785 ..... 04 p0605 N84-13990 #
DE84-001787 ..... 05 p0651 N84-14280 #
DE84-001788 ..... 04 p0605 N84-13991 #
DE84-001790 ..... 07 p1055 N84-16835 #
DE84-001793 ..... 06 p0924 N84-16007 #
DE84-001798 ..... 06 p0936 N84-16083 #
DE84-001800 ..... 06 p0936 N84-16082 #
DE84-001811 ..... 10 p1529 N84-20019 #
DE84-001813 ..... 04 p0516 N84-13388 #
DE84-001816 ..... 05 p0651 N84-14281 #
DE84-001823 ..... 05 p0755 N84-14950 #
DE84-001833 ..... 06 p0830 N84-15404 #
DE84-001837 ..... 05 p0704 N84-14622 #
DE84-001840 ..... 05 p0750 N84-14922 #
DE84-001841 ..... 06 p0927 N84-16019 #
DE84-001843 ..... 04 p0529 N84-13483 #
DE84-001846 ..... 04 p0495 N84-13249 #
DE84-001848 ..... 07 p1034 N84-16709 #
DE84-001853 ..... 07 p1017 N84-16595 #
DE84-001857 ..... 05 p0750 N84-14926 #
DE84-001861 ..... 19 p3108 N84-29751 #
DE84-001863 ..... 05 p0660 N84-14340 #
DE84-001867 ..... 06 p0879 N84-15718 #
DE84-001870 ..... 07 p1089 N84-17085 #
DE84-001886 ..... 04 p0527 N84-13463 #
DE84-001903 ..... 05 p0685 N84-14505 #
DE84-001906 ..... 07 p1014 N84-16575 #
DE84-001918 ..... 05 p0656 N84-14316 #
DE84-001937 ..... 05 p0656 N84-14312 #
DE84-001950 ..... 06 p0862 N84-15739 #
DE84-001964 ..... 05 p0685 N84-14503 #
DE84-001967 ..... 05 p0651 N84-14277 #
DE84-001969 ..... 05 p0656 N84-14313 #
DE84-001976 ..... 10 p1590 N84-20418 #
DE84-001981 ..... 10 p1593 N84-20441 #
DE84-001983 ..... 06 p0844 N84-15507 #
DE84-001985 ..... 06 p0807 N84-15257 #
DE84-001994 ..... 04 p0496 N84-13254 #
DE84-002001 ..... 05 p0686 N84-14512 #
DE84-002004 ..... 07 p1010 N84-16554 #
DE84-002008 ..... 08 p1213 N84-17914 #
DE84-002010 ..... 05 p0704 N84-14620 #
DE84-002011 ..... 05 p0763 N84-15008 #
DE84-002013 ..... 13 p1997 N84-22962 #
DE84-002014 ..... 04 p0539 N84-13544 #
DE84-002015 ..... 04 p0508 N84-13331 #
DE84-002017 ..... 04 p0539 N84-13545 #
DE84-002022 ..... 06 p0811 N84-15278 #
DE84-002024 ..... 05 p0657 N84-14317 #
DE84-002042 ..... 06 p0830 N84-15403 #
DE84-002046 ..... 05 p0655 N84-14308 #
DE84-002048 ..... 07 p1083 N84-17042 #
DE84-002051 ..... 07 p1004 N84-16509 #
DE84-002052 ..... 05 p0688 N84-14522 #
DE84-002059 ..... 06 p0874 N84-15690 #
DE84-002088 ..... 06 p0879 N84-15717 #
DE84-002103 ..... 07 p1082 N84-17034 #
DE84-002104 ..... 08 p1165 N84-17584 #
DE84-002106 ..... 07 p0998 N84-16471 #
DE84-002107 ..... 07 p1082 N84-17035 #
DE84-002109 ..... 07 p1078 N84-17007 #
DE84-002115 ..... 08 p1133 N84-17368 #
DE84-002116 ..... 07 p1083 N84-17045 #
DE84-002117 ..... 06 p0851 N84-15548 #
DE84-002118 ..... 07 p1076 N84-16996 #
DE84-002133 ..... 07 p1008 N84-16537 #
DE84-002141 ..... 12 p1921 N84-22513 #
DE84-002148 ..... 07 p1012 N84-16566 #
DE84-002169 ..... 07 p0972 N84-16300 #
DE84-002173 ..... 07 p1081 N84-17032 #
DE84-002174 ..... 08 p1235 N84-18075 #
DE84-002181 ..... 08 p1221 N84-17975 #
DE84-002182 ..... 07 p1081 N84-17030 #
DE84-002188 ..... 09 p1326 N84-18662 #
DE84-002189 ..... 10 p1502 N84-19819 #
DE84-002192 ..... 05 p0651 N84-14279 #
DE84-002194 ..... 05 p0688 N84-14521 #
DE84-002195 ..... 06 p0825 N84-15382 #
DE84-002199 ..... 06 p0861 N84-15612 #
DE84-002218 ..... 06 p0844 N84-15508 #
DE84-002252 ..... 07 p0975 N84-16318 #
DE84-002253 ..... 05 p0655 N84-14309 #
DE84-002256 ..... 06 p0921 N84-15986 #
DE84-002259 ..... 07 p1074 N84-16981 #
DE84-002261 ..... 06 p0920 N84-15984 #
DE84-002264 ..... 06 p0920 N84-15979 #
DE84-002268 ..... 07 p1077 N84-17001 #
DE84-002272 ..... 05 p0748 N84-14910 #
DE84-002280 ..... 05 p0687 N84-14513 #
DE84-002290 ..... 05 p0745 N84-14896 #
DE84-002299 ..... 07 p1077 N84-17002 #
DE84-002302 ..... 05 p0730 N84-14796 #
DE84-002303 ..... 05 p0750 N84-14928 #
DE84-002308 ..... 06 p0918 N84-15967 #
DE84-002310 ..... 08 p1238 N84-18093 #

DE84-002321 ..... 06 p0853 N84-15561 #
DE84-002322 ..... 06 p0830 N84-15402 #
DE84-002324 ..... 07 p1074 N84-16979 #
DE84-002325 ..... 07 p1074 N84-16978 #
DE84-002335 ..... 06 p0882 N84-15738 #
DE84-002340 ..... 06 p0874 N84-15688 #
DE84-002367 ..... 10 p1467 N84-19720 #
DE84-002371 ..... 05 p0660 N84-14338 #
DE84-002373 ..... 10 p1530 N84-20020 #
DE84-002375 ..... 06 p0926 N84-16018 #
DE84-002378 ..... 04 p0545 N84-13592 #
DE84-002381 ..... 05 p0745 N84-14897 #
DE84-002382 ..... 06 p0783 N84-15129 #
DE84-002383 ..... 05 p0656 N84-14311 #
DE84-002388 ..... 05 p0750 N84-14923 #
DE84-002404 ..... 06 p0813 N84-15292 #
DE84-002406 ..... 09 p1392 N84-19091 #
DE84-002420 ..... 06 p0898 N84-15832 #
DE84-002422 ..... 06 p0899 N84-15836 #
DE84-002436 ..... 10 p1577 N84-20332 #
DE84-002452 ..... 07 p0960 N84-16223 #
DE84-002453 ..... 07 p1072 N84-16969 #
DE84-002457 ..... 20 p3266 N84-30720 #
DE84-002458 ..... 19 p3027 N84-29201 #
DE84-002460 ..... 07 p0981 N84-16356 #
DE84-002462 ..... 07 p0981 N84-16357 #
DE84-002463 ..... 08 p1237 N84-18084 #
DE84-002465 ..... 09 p1290 N84-18424 #
DE84-002468 ..... 07 p0972 N84-16295 #
DE84-002470 ..... 07 p0994 N84-16444 #
DE84-002472 ..... 07 p1076 N84-16997 #
DE84-002480 ..... 05 p0709 N84-14646 #
DE84-002506 ..... 05 p0717 N84-14694 #
DE84-002525 ..... 05 p0651 N84-14278 #
DE84-002536 ..... 05 p0755 N84-14952 #
DE84-002552 ..... 06 p0916 N84-15955 #
DE84-002567 ..... 05 p0651 N84-14282 #
DE84-002568 ..... 05 p0704 N84-14621 #
DE84-002569 ..... 05 p0704 N84-14619 #
DE84-002572 ..... 05 p0663 N84-14360 #
DE84-002573 ..... 06 p0907 N84-15892 #
DE84-002575 ..... 14 p2128 N84-23759 #
DE84-002578 ..... 05 p0685 N84-14502 #
DE84-002579 ..... 05 p0720 N84-14719 #
DE84-002581 ..... 06 p0935 N84-16080 #
DE84-002584 ..... 05 p0759 N84-14981 #
DE84-002599 ..... 05 p0663 N84-14361 #
DE84-002600 ..... 08 p1230 N84-18039 #
DE84-002609 ..... 08 p1152 N84-17500 #
DE84-002610 ..... 07 p0971 N84-16292 #
DE84-002611 ..... 07 p1082 N84-17036 #
DE84-002612 ..... 22 p3595 N84-32770 #
DE84-002628 ..... 07 p1073 N84-16970 #
DE84-002634 ..... 08 p1221 N84-17971 #
DE84-002640 ..... 10 p1526 N84-19997 #
DE84-002654 ..... 06 p0861 N84-15613 #
DE84-002683 ..... 05 p0676 N84-14444 #
DE84-002685 ..... 05 p0676 N84-14445 #
DE84-002692 ..... 21 p3496 N84-32157 #
DE84-002695 ..... 15 p2402 N84-25420 #
DE84-002714 ..... 07 p1003 N84-16503 #
DE84-002715 ..... 21 p3371 N84-31390 #
DE84-002723 ..... 06 p0882 N84-15737 #
DE84-002724 ..... 20 p3278 N84-30806 #
DE84-002731 ..... 06 p0783 N84-15128 #
DE84-002742 ..... 06 p0921 N84-15989 #
DE84-002743 ..... 06 p0921 N84-15991 #
DE84-002749 ..... 05 p0705 N84-14623 #
DE84-002754 ..... 05 p0676 N84-14446 #
DE84-002761 ..... 07 p0998 N84-16470 #
DE84-002763 ..... 07 p1055 N84-16836 #
DE84-002768 ..... 07 p1082 N84-17037 #
DE84-002771 ..... 12 p1915 N84-22477 #
DE84-002774 ..... 07 p0972 N84-16296 #
DE84-002779 ..... 08 p1162 N84-17565 #
DE84-002780 ..... 08 p1162 N84-17564 #
DE84-002781 ..... 07 p0981 N84-16358 #
DE84-002782 ..... 15 p2337 N84-25033 #
DE84-002785 ..... 07 p1053 N84-16816 #
DE84-002787 ..... 07 p1090 N84-17087 #
DE84-002788 ..... 21 p3387 N84-31496 #
DE84-002790 ..... 07 p0998 N84-16472 #
DE84-002793 ..... 07 p0994 N84-16445 #
DE84-002794 ..... 07 p1010 N84-16555 #
DE84-002795 ..... 12 p1827 N84-21908 #
DE84-002798 ..... 07 p1011 N84-16556 #
DE84-002799 ..... 07 p1077 N84-17005 #
DE84-002800 ..... 07 p1081 N84-17033 #
DE84-002809 ..... 07 p1077 N84-17000 #
DE84-002813 ..... 06 p0810 N84-15276 #
DE84-002826 ..... 09 p1286 N84-18395 #
DE84-002829 ..... 08 p1140 N84-17412 #
DE84-002830 ..... 09 p1290 N84-18422 #
DE84-002831 ..... 06 p0802 N84-15227 #
DE84-002837 ..... 07 p0971 N84-16291 #
DE84-002840 ..... 08 p1140 N84-17413 #
DE84-002845 ..... 06 p0826 N84-15383 #
DE84-002848 ..... 05 p0747 N84-14909 #
DE84-002854 ..... 19 p3103 N84-29713 #
DE84-002855 ..... 07 p0976 N84-16323 #
DE84-002856 ..... 08 p1230 N84-18037 #
DE84-002857 ..... 07 p0974 N84-16315 #
DE84-002858 ..... 11 p1757 N84-21472 #
DE84-002859 ..... 09 p1390 N84-19079 #
DE84-002864 ..... 06 p1229 N84-18034 #
DE84-002869 ..... 07 p1010 N84-16553 #
DE84-002872 ..... 15 p2299 N84-24797 #
DE84-002875 ..... 07 p1062 N84-17036 #
DE84-002876 ..... 07 p0971 N84-16294 #
DE84-002886 ..... 07 p1043 N84-16760 #
DE84-002887 ..... 08 p1236 N84-18076 #
DE84-002889 ..... 07 p1011 N84-16557 #
DE84-002890 ..... 07 p1074 N84-16982 #
DE84-002899 ..... 08 p1235 N84-18080 #
DE84-002902 ..... 07 p1073 N84-16973 #
DE84-002909 ..... 07 p1064 N84-16900 #
DE84-002911 ..... 08 p1231 N84-18042 #
DE84-002916 ..... 10 p1457 N84-19514 #
DE84-002918 ..... 07 p0972 N84-16296 #
DE84-002925 ..... 07 p0970 N84-16288 #
DE84-002927 ..... 09 p1342 N84-18768 #
DE84-002930 ..... 07 p1003 N84-16507 #
DE84-002931 ..... 07 p1003 N84-16506 #
DE84-002939 ..... 07 p0972 N84-16302 #
DE84-002958 ..... 11 p1673 N84-20919 #
DE84-002964 ..... 07 p0975 N84-16319 #
DE84-002971 ..... 08 p1180 N84-17689 #
DE84-002977 ..... 07 p1026 N84-16650 #
DE84-002984 ..... 07 p0998 N84-16474 #
DE84-002988 ..... 07 p1003 N84-16504 #
DE84-002993 ..... 07 p1076 N84-16999 #
DE84-002994 ..... 07 p1084 N84-17051 #
DE84-002995 ..... 07 p1076 N84-16998 #
DE84-002997 ..... 08 p1238 N84-18094 #
DE84-003002 ..... 07 p0979 N84-16347 #
DE84-003008 ..... 06 p1229 N84-18031 #
DE84-003009 ..... 06 p0916 N84-15952 #
DE84-003011 ..... 07 p0975 N84-16317 #
DE84-003022 ..... 07 p0975 N84-16321 #
DE84-003041 ..... 07 p1014 N84-16574 #
DE84-003048 ..... 07 p1081 N84-17029 #
DE84-003050 ..... 10 p1462 N84-19550 #
DE84-003087 ..... 20 p3242 N84-30585 #
DE84-003096 ..... 18 p2876 N84-28261 #
DE84-003101 ..... 07 p1003 N84-16502 #
DE84-003102 ..... 14 p2120 N84-23707 #
DE84-003103 ..... 07 p0998 N84-16473 #
DE84-003105 ..... 07 p1081 N84-17031 #
DE84-003106 ..... 07 p0972 N84-16299 #
DE84-003107 ..... 10 p1482 N84-19686 #
DE84-003113 ..... 07 p0979 N84-16345 #
DE84-003139 ..... 09 p1258 N84-18199 #
DE84-003141 ..... 07 p1026 N84-16647 #
DE84-003150 ..... 07 p1026 N84-16649 #
DE84-003151 ..... 07 p1077 N84-17004 #
DE84-003161 ..... 08 p1133 N84-17372 #
DE84-003162 ..... 07 p0976 N84-16329 #
DE84-003167 ..... 10 p1589 N84-20416 #
DE84-003174 ..... 07 p0976 N84-16328 #
DE84-003178 ..... 07 p0971 N84-16289 #
DE84-003179 ..... 07 p0970 N84-16287 #
DE84-003183 ..... 08 p1126 N84-17317 #
DE84-003194 ..... 12 p1884 N84-22282 #
DE84-003201 ..... 12 p1868 N84-22176 #
DE84-003203 ..... 08 p1133 N84-17370 #
DE84-003204 ..... 19 p3103 N84-29712 #
DE84-003208 ..... 09 p1316 N84-18600* #
DE84-003217 ..... 08 p1231 N84-18045 #
DE84-003218 ..... 07 p0999 N84-16478 #
DE84-003242 ..... 08 p1233 N84-18057 #
DE84-003243 ..... 07 p1078 N84-17009 #
DE84-003244 ..... 07 p1078 N84-17010 #
DE84-003245 ..... 07 p1078 N84-17008 #
DE84-003251 ..... 07 p0968 N84-16273 #
DE84-003252 ..... 07 p1010 N84-16552 #
DE84-003255 ..... 08 p1133 N84-17371 #
DE84-003257 ..... 10 p1463 N84-19553 #
DE84-003265 ..... 08 p1229 N84-18035 #
DE84-003266 ..... 09 p1285 N84-18393 #
DE84-003269 ..... 11 p1675 N84-20933 #
DE84-003270 ..... 08 p1134 N84-17377 #
DE84-003281 ..... 07 p0979 N84-16346 #
DE84-003285 ..... 07 p1072 N84-16967 #
DE84-003288 ..... 11 p1745 N84-21385 #
DE84-003292 ..... 10 p1518 N84-19936 #
DE84-003299 ..... 10 p1577 N84-20333 #
DE84-003302 ..... 08 p1138 N84-17403 #
DE84-003304 ..... 08 p1182 N84-17702 #
DE84-003305 ..... 07 p0980 N84-16348 #
DE84-003307 ..... 09 p1269 N84-18413 #
DE84-003308 ..... 07 p1078 N84-17011 #
DE84-003309 ..... 09 p1379 N84-19009 #

DE84-003314 ..... 09 p1392 N84-19089 #
DE84-003316 ..... 08 p1172 N84-17633 #
DE84-003319 ..... 10 p1577 N84-20335 #
DE84-003325 ..... 07 p0976 N84-16327 #
DE84-003331 ..... 07 p1064 N84-16901 #
DE84-003333 ..... 07 p1026 N84-16648 #
DE84-003335 ..... 09 p1337 N84-18732 #
DE84-003338 ..... 07 p1073 N84-16971 #
DE84-003340 ..... 08 p1100 N84-17151 #
DE84-003352 ..... 07 p1082 N84-17039 #
DE84-003357 ..... 08 p1228 N84-18024 #
DE84-003360 ..... 11 p1738 N84-21337 #
DE84-003361 ..... 08 p1221 N84-17974 #
DE84-003362 ..... 08 p1134 N84-17376 #
DE84-003364 ..... 08 p1182 N84-17700 #
DE84-003367 ..... 13 p1994 N84-22939 #
DE84-003390 ..... 08 p1183 N84-17703 #
DE84-003401 ..... 10 p1468 N84-19590 #
DE84-003402 ..... 08 p1167 N84-17597 #
DE84-003403 ..... 10 p1456 N84-19512 #
DE84-003404 ..... 08 p1178 N84-17678 #
DE84-003405 ..... 08 p1229 N84-18033 #
DE84-003411 ..... 08 p1134 N84-17374 #
DE84-003426 ..... 07 p1008 N84-16536 #
DE84-003438 ..... 08 p1168 N84-17740 #
DE84-003440 ..... 07 p0976 N84-16324 #
DE84-003442 ..... 08 p1230 N84-18038 #
DE84-003444 ..... 11 p1676 N84-20935 #
DE84-003446 ..... 11 p1675 N84-20932 #
DE84-003454 ..... 10 p1545 N84-20131 #
DE84-003455 ..... 08 p1134 N84-17375 #
DE84-003459 ..... 09 p1285 N84-18391 #
DE84-003460 ..... 08 p1236 N84-18081 #
DE84-003461 ..... 08 p1179 N84-17679 #
DE84-003477 ..... 08 p1160 N84-17550 #
DE84-003478 ..... 11 p1708 N84-21133 #
DE84-003482 ..... 11 p1712 N84-21158 #
DE84-003483 ..... 07 p0976 N84-16325 #
DE84-003517 ..... 07 p0999 N84-16477 #
DE84-003555 ..... 07 p1074 N84-16980 #
DE84-003556 ..... 09 p1393 N84-19094 #
DE84-003558 ..... 12 p1904 N84-22398 #
DE84-003570 ..... 07 p0976 N84-16326 #
DE84-003573 ..... 20 p3158 N84-30056 #
DE84-003574 ..... 08 p1197 N84-17807 #
DE84-003579 ..... 07 p1064 N84-16902 #
DE84-003585 ..... 08 p1222 N84-17978 #
DE84-003595 ..... 08 p1230 N84-18041 #
DE84-003601 ..... 08 p1230 N84-18036 #
DE84-003607 ..... 07 p1072 N84-16966 #
DE84-003608 ..... 07 p1072 N84-16965 #
DE84-003612 ..... 10 p1494 N84-19770 #
DE84-003621 ..... 07 p1055 N84-16833 #
DE84-003622 ..... 08 p1236 N84-18078 #
DE84-003627 ..... 07 p1034 N84-16708 #
DE84-003632 ..... 08 p1135 N84-17380 #
DE84-003634 ..... 08 p1182 N84-17699 #
DE84-003638 ..... 08 p1182 N84-17701 #
DE84-003640 ..... 14 p2148 N84-23870 #
DE84-003645 ..... 08 p1134 N84-17373 #
DE84-003649 ..... 08 p1230 N84-18040 #
DE84-003657 ..... 10 p1585 N84-20392 #
DE84-003658 ..... 09 p1325 N84-18661 #
DE84-003659 ..... 07 p1012 N84-16567 #
DE84-003677 ..... 07 p1008 N84-16538 #
DE84-003691 ..... 10 p1501 N84-19807 #
DE84-003704 ..... 08 p1233 N84-18058 #
DE84-003705 ..... 07 p1063 N84-17044 #
DE84-003709 ..... 08 p1229 N84-18032 #
DE84-003712 ..... 08 p1228 N84-18023 #
DE84-003713 ..... 08 p1133 N84-17369* #
DE84-003726 ..... 09 p1289 N84-18415 #
DE84-003735 ..... 11 p1716 N84-21191 #
DE84-003736 ..... 08 p1233 N84-18060 #
DE84-003738 ..... 08 p1234 N84-18063 #
DE84-003739 ..... 08 p1233 N84-18062 #
DE84-003740 ..... 08 p1162 N84-17568 #
DE84-003741 ..... 09 p1392 N84-19090 #
DE84-003744 ..... 08 p1138 N84-17404 #
DE84-003746 ..... 09 p1388 N84-19062 #
DE84-003751 ..... 08 p1165 N84-17585 #
DE84-003754 ..... 07 p0971 N84-16290 #
DE84-003764 ..... 08 p1181 N84-17692 #
DE84-003767 ..... 08 p1233 N84-18061 #
DE84-003777 ..... 11 p1683 N84-20984 #
DE84-003779 ..... 08 p1160 N84-17551 #
DE84-003784 ..... 09 p1290 N84-18423 #
DE84-003785 ..... 09 p1415 N84-19262 #
DE84-003786 ..... 08 p1246 N84-18143 #
DE84-003787 ..... 09 p1415 N84-19261 #
DE84-003818 ..... 20 p3190 N84-30268 #
DE84-003819 ..... 07 p1055 N84-16834 #
DE84-003821 ..... 10 p1499 N84-19798 #
DE84-003826 ..... 10 p1564 N84-20249 #
DE84-003832 ..... 08 p1188 N84-17739 #
DE84-003833 ..... 10 p1537 N84-20070 #
DE84-003838 ..... 08 p1126 N84-17319 #
DE84-003840 ..... 11 p1750 N84-21423 #
DE84-003841 ..... 07 p1085 N84-17056 #
DE84-003851 ..... 09 p1346 N84-18794 #
DE84-003856 ..... 10 p1494 N84-19767 #
DE84-003870 ..... 11 p1709 N84-21137 #
DE84-003871 ..... 09 p1369 N84-18941 #
DE84-003876 ..... 21 p3518 N84-32289 #
DE84-003877 ..... 21 p3518 N84-32290 #
DE84-003891 ..... 09 p1285 N84-18392 #
DE84-003899 ..... 11 p1709 N84-21138 #
DE84-003908 ..... 07 p1056 N84-16838 #
DE84-003912 ..... 07 p1056 N84-16837 #
DE84-003913 ..... 08 p1226 N84-18012 #
DE84-003914 ..... 08 p1221 N84-17972 #
DE84-003915 ..... 09 p1418 N84-19276 #
DE84-003916 ..... 12 p1828 N84-21916 #
DE84-003919 ..... 07 p0999 N84-16476 #
DE84-003920 ..... 10 p1526 N84-19995 #
DE84-003922 ..... 07 p0998 N84-16475 #
DE84-003931 ..... 09 p1325 N84-18659 #
DE84-003947 ..... 12 p1863 N84-22142 #
DE84-003954 ..... 08 p1135 N84-17379 #
DE84-003961 ..... 08 p1228 N84-18022 #
DE84-003969 ..... 09 p1310 N84-18564 #
DE84-003975 ..... 08 p1233 N84-18059 #
DE84-003978 ..... 08 p1126 N84-17318 #
DE84-003982 ..... 11 p1710 N84-21146 #
DE84-003990 ..... 11 p1760 N84-21489 #
DE84-003992 ..... 11 p1674 N84-20924 #
DE84-004006 ..... 08 p1135 N84-17378 #
DE84-004014 ..... 09 p1343 N84-18769 #
DE84-004018 ..... 08 p1135 N84-17381 #
DE84-004021 ..... 08 p1236 N84-18079 #
DE84-004023 ..... 09 p1397 N84-19122 #
DE84-004026 ..... 09 p1393 N84-19093 #
DE84-004027 ..... 09 p1392 N84-19087 #
DE84-004030 ..... 19 p2995 N84-28977 #
DE84-004031 ..... 20 p3185 N84-30237 #
DE84-004034 ..... 20 p3296 N84-30925 #
DE84-004037 ..... 09 p1328 N84-18670 #
DE84-004042 ..... 09 p1392 N84-19092 #
DE84-004043 ..... 11 p1674 N84-20926 #
DE84-004046 ..... 10 p1487 N84-19719 #
DE84-004050 ..... 08 p1162 N84-17567 #
DE84-004054 ..... 09 p1388 N84-19063 #
DE84-004055 ..... 14 p2149 N84-23873 #
DE84-004075 ..... 10 p1565 N84-20253 #
DE84-004086 ..... 09 p1289 N84-18414 #
DE84-004088 ..... 10 p1461 N84-19543 #
DE84-004089 ..... 10 p1456 N84-19509 #
DE84-004097 ..... 09 p1325 N84-18660 #
DE84-004098 ..... 08 p1178 N84-17677 #
DE84-004105 ..... 09 p1285 N84-18394 #
DE84-004109 ..... 09 p1280 N84-18361 #
DE84-004126 ..... 09 p1342 N84-18763 #
DE84-004135 ..... 10 p1590 N84-20422 #
DE84-004140 ..... 09 p1379 N84-19010 #
DE84-004146 ..... 10 p1494 N84-19771 #
DE84-004148 ..... 10 p1501 N84-19809 #
DE84-004149 ..... 09 p1369 N84-18940 #
DE84-004157 ..... 10 p1586 N84-20398 #
DE84-004158 ..... 13 p1954 N84-22705 #
DE84-004159 ..... 10 p1565 N84-20252 #
DE84-004162 ..... 13 p1954 N84-22706 #
DE84-004165 ..... 11 p1692 N84-21034 #
DE84-004166 ..... 10 p1487 N84-19722 #
DE84-004168 ..... 10 p1456 N84-19511 #
DE84-004175 ..... 10 p1461 N84-19545 #
DE84-004178 ..... 11 p1688 N84-21007 #
DE84-004190 ..... 11 p1737 N84-21332 #
DE84-004193 ..... 09 p1310 N84-18565 #
DE84-004196 ..... 10 p1470 N84-19603 #
DE84-004198 ..... 11 p1704 N84-21111 #
DE84-004202 ..... 10 p1589 N84-20415 #
DE84-004203 ..... 10 p1532 N84-20033 #
DE84-004209 ..... 10 p1537 N84-20072 #
DE84-004210 ..... 09 p1285 N84-18389 #
DE84-004211 ..... 10 p1468 N84-19591 #
DE84-004212 ..... 10 p1589 N84-20414 #
DE84-004227 ..... 11 p1719 N84-21210 #
DE84-004231 ..... 11 p1688 N84-21009 #
DE84-004235 ..... 11 p1708 N84-21136 #
DE84-004264 ..... 10 p1498 N84-19792 #
DE84-004289 ..... 10 p1499 N84-19796 #
DE84-004295 ..... 11 p1639 N84-20714 #
DE84-004304 ..... 11 p1745 N84-21389 #
DE84-004308 ..... 11 p1676 N84-20937 #
DE84-004310 ..... 11 p1716 N84-21196 #
DE84-004311 ..... 10 p1564 N84-20250 #
DE84-004312 ..... 11 p1674 N84-20925 #
DE84-004314 ..... 11 p1635 N84-20692 #
DE84-004316 ..... 10 p1595 N84-20453 #
DE84-004320 ..... 20 p3282 N84-30837 #
DE84-004321 ..... 10 p1586 N84-20395 #
DE84-004322 ..... 10 p1586 N84-20399 #

DE84-004326 ..... 11 p1732 N84-21298 #
DE84-004327 ..... 10 p1482 N84-19685 #
DE84-004328 ..... 10 p1586 N84-20396 #
DE84-004329 ..... 10 p1501 N84-19810 #
DE84-004330 ..... 11 p1737 N84-21334 #
DE84-004332 ..... 11 p1655 N84-20801 #
DE84-004333 ..... 21 p3423 N84-31711 #
DE84-004334 ..... 10 p1586 N84-20394 #
DE84-004335 ..... 10 p1537 N84-20071 #
DE84-004336 ..... 11 p1692 N84-21035 #
DE84-004343 ..... 10 p1482 N84-19546 #
DE84-004354 ..... 10 p1501 N84-19812 #
DE84-004355 ..... 10 p1494 N84-19769 #
DE84-004358 ..... 10 p1457 N84-19513 #
DE84-004364 ..... 11 p1745 N84-21384 #
DE84-004365 ..... 11 p1654 N84-20800 #
DE84-004367 ..... 11 p1708 N84-21135 #
DE84-004368 ..... 10 p1502 N84-19818 #
DE84-004374 ..... 10 p1482 N84-19551 #
DE84-004376 ..... 11 p1628 N84-20652 #
DE84-004386 ..... 20 p3167 N84-30111 #
DE84-004391 ..... 12 p1915 N84-22478 #
DE84-004396 ..... 10 p1526 N84-19996 #
DE84-004413 ..... 10 p1597 N84-20467 #
DE84-004414 ..... 10 p1502 N84-19820 #
DE84-004424 ..... 10 p1586 N84-20393 #
DE84-004426 ..... 11 p1635 N84-20690 #
DE84-004432 ..... 10 p1461 N84-19538 #
DE84-004433 ..... 20 p3236 N84-30543 #
DE84-004435 ..... 18 p2883 N84-28293 #
DE84-004439 ..... 09 p1418 N84-19276 #
DE84-004442 ..... 10 p1499 N84-19799 #
DE84-004443 ..... 11 p1737 N84-21333 #
DE84-004444 ..... 08 p1179 N84-17680 #
DE84-004456 ..... 10 p1593 N84-20440 #
DE84-004489 ..... 20 p3311 N84-31026 #
DE84-004491 ..... 20 p3235 N84-30537 #
DE84-004493 ..... 21 p3434 N84-31789 #
DE84-004494 ..... 18 p2942 N84-28656 #
DE84-004508 ..... 22 p3618 N84-32926 #
DE84-004512 ..... 21 p3435 N84-31795 #
DE84-004520 ..... 21 p3435 N84-31796 #
DE84-004523 ..... 23 p3798 N84-34084 #
DE84-004524 ..... 23 p3715 N84-33548 #
DE84-004573 ..... 10 p1498 N84-19794 #
DE84-004586 ..... 10 p1497 N84-19785 #
DE84-004594 ..... 10 p1482 N84-19547 #
DE84-004602 ..... 10 p1574 N84-20318 #
DE84-004635 ..... 10 p1499 N84-19795 #
DE84-004636 ..... 11 p1673 N84-20920 #
DE84-004637 ..... 11 p1717 N84-21200 #
DE84-004650 ..... 09 p1285 N84-18390 #
DE84-004654 ..... 11 p1711 N84-21156 #
DE84-004689 ..... 10 p1452 N84-19487 #
DE84-004735 ..... 10 p1501 N84-19808 #
DE84-004741 ..... 11 p1710 N84-21147 #
DE84-004761 ..... 10 p1453 N84-19488 #
DE84-004762 ..... 10 p1456 N84-19510 #
DE84-004775 ..... 09 p1316 N84-18601 #
DE84-004785 ..... 12 p1808 N84-21786 #
DE84-004791 ..... 10 p1494 N84-19772 #
DE84-004794 ..... 11 p1671 N84-20907 #
DE84-004802 ..... 12 p1897 N84-22355 #
DE84-004812 ..... 11 p1626 N84-20644 #
DE84-004819 ..... 10 p1596 N84-20458 #
DE84-004821 ..... 11 p1716 N84-21192 #
DE84-004850 ..... 10 p1472 N84-19612 #
DE84-004853 ..... 10 p1575 N84-20319 #
DE84-004856 ..... 15 p2364 N84-25183 #
DE84-004869 ..... 07 p1078 N84-17006 #
DE84-004871 ..... 09 p1388 N84-19064 #
DE84-004875 ..... 10 p1461 N84-19541 #
DE84-004877 ..... 10 p1461 N84-19544 #
DE84-004878 ..... 10 p1462 N84-19549 #
DE84-004879 ..... 10 p1462 N84-19548 #
DE84-004880 ..... 10 p1461 N84-19540 #
DE84-004881 ..... 10 p1461 N84-19542 #
DE84-004883 ..... 10 p1456 N84-19508 #
DE84-004914 ..... 11 p1635 N84-20687 #
DE84-004920 ..... 08 p1206 N84-17862 #
DE84-004927 ..... 08 p1135 N84-17382 #
DE84-004933 ..... 10 p1461 N84-19539 #
DE84-004959 ..... 11 p1629 N84-20663 #
DE84-004976 ..... 08 p1126 N84-17320 #
DE84-004986 ..... 10 p1586 N84-20397 #
DE84-004988 ..... 08 p1222 N84-17977* #
DE84-004989 ..... 08 p1222 N84-17976 #
DE84-004990 ..... 09 p1379 N84-19008 #
DE84-004994 ..... 08 p1136 N84-17388* #
DE84-004995 ..... 11 p1672 N84-20908 #
DE84-004996 ..... 10 p1572 N84-20299 #
DE84-005031 ..... 21 p3415 N84-31657 #
DE84-005034 ..... 15 p2408 N84-25456 #
DE84-005042 ..... 11 p1710 N84-21145 #
DE84-005052 ..... 12 p1910 N84-22445 #
DE84-005058 ..... 10 p1564 N84-20248 #
DE84-005068 ..... 12 p1823 N84-21883 #
DE84-005072 ..... 10 p1502 N84-19821 #
DE84-005083 ..... 10 p1472 N84-19611 #
DE84-005098 ..... 11 p1688 N84-21010 #
DE84-005108 ..... 11 p1655 N84-20802 #
DE84-005110 ..... 11 p1669 N84-20889 #
DE84-005113 ..... 12 p1920 N84-22507 #
DE84-005114 ..... 10 p1575 N84-20324 #
DE84-005115 ..... 10 p1482 N84-19687 #
DE84-005116 ..... 11 p1644 N84-20751 #
DE84-005126 ..... 12 p1906 N84-22433 #
DE84-005133 ..... 11 p1738 N84-21339 #
DE84-005152 ..... 10 p1500 N84-19806 #
DE84-005160 ..... 10 p1498 N84-19793 #
DE84-005167 ..... 10 p1453 N84-19489 #
DE84-005173 ..... 11 p1746 N84-21393 #
DE84-005175 ..... 11 p1746 N84-21392 #
DE84-005176 ..... 11 p1708 N84-21134 #
DE84-005179 ..... 11 p1705 N84-21112 #
DE84-005181 ..... 12 p1910 N84-22444 #
DE84-005182 ..... 11 p1634 N84-20682 #
DE84-005186 ..... 10 p1494 N84-19766 #
DE84-005190 ..... 10 p1456 N84-19507 #
DE84-005193 ..... 10 p1494 N84-19768 #
DE84-005200 ..... 15 p2364 N84-25182 #
DE84-005234 ..... 11 p1745 N84-21387 #
DE84-005247 ..... 11 p1674 N84-20923 #
DE84-005253 ..... 11 p1629 N84-20662 #
DE84-005254 ..... 10 p1589 N84-20417 #
DE84-005255 ..... 12 p1837 N84-21973 #
DE84-005261 ..... 11 p1738 N84-21341 #
DE84-005306 ..... 11 p1661 N84-20838 #
DE84-005311 ..... 11 p1635 N84-20688 #
DE84-005328 ..... 11 p1674 N84-20922 #
DE84-005339 ..... 10 p1530 N84-20023 #
DE84-005341 ..... 10 p1530 N84-20021 #
DE84-005361 ..... 10 p1501 N84-19811 #
DE84-005383 ..... 12 p1911 N84-22448 #
DE84-005385 ..... 11 p1737 N84-21335 #
DE84-005388 ..... 11 p1672 N84-20909 #
DE84-005391 ..... 10 p1482 N84-19552 #
DE84-005392 ..... 11 p1730 N84-21287 #
DE84-005408 ..... 11 p1717 N84-21197 #
DE84-005411 ..... 20 p3156 N84-30043 #
DE84-005413 ..... 15 p2405 N84-25439 #
DE84-005425 ..... 12 p1916 N84-22486 #
DE84-005432 ..... 11 p1683 N84-20855 #
DE84-005433 ..... 11 p1693 N84-21042 #
DE84-005440 ..... 10 p1565 N84-20251 #
DE84-005454 ..... 13 p1994 N84-22940 #
DE84-005458 ..... 14 p2128 N84-23760 #
DE84-005461 ..... 11 p1688 N84-21008 #
DE84-005463 ..... 11 p1738 N84-21336 #
DE84-005475 ..... 11 p1629 N84-20659 #
DE84-005480 ..... 14 p2172 N84-24010 #
DE84-005481 ..... 11 p1634 N84-20680 #
DE84-005482 ..... 11 p1710 N84-21144 #
DE84-005485 ..... 11 p1634 N84-20686 #
DE84-005486 ..... 11 p1653 N84-20793 #
DE84-005493 ..... 11 p1635 N84-20689 #
DE84-005497 ..... 11 p1663 N84-20854 #
DE84-005498 ..... 12 p1864 N84-22143 #
DE84-005507 ..... 11 p1647 N84-20771 #
DE84-005520 ..... 20 p3235 N84-30532 #
DE84-005521 ..... 11 p1645 N84-20753 #
DE84-005527 ..... 13 p1998 N84-22953 #
DE84-005529 ..... 11 p1745 N84-21386 #
DE84-005532 ..... 11 p1647 N84-20773 #
DE84-005535 ..... 11 p1634 N84-20683 #
DE84-005536 ..... 12 p1794 N84-21699 #
DE84-005546 ..... 11 p1730 N84-21288 #
DE84-005549 ..... 14 p2142 N84-23845 #
DE84-005551 ..... 12 p1844 N84-22020 #
DE84-005553 ..... 11 p1709 N84-21141 #
DE84-005596 ..... 11 p1676 N84-20936 #
DE84-005639 ..... 11 p1719 N84-21211 #
DE84-005640 ..... 11 p1709 N84-21140 #
DE84-005664 ..... 11 p1661 N84-20835 #
DE84-005666 ..... 11 p1745 N84-21388 #
DE84-005685 ..... 11 p1665 N84-20863 #
DE84-005687 ..... 15 p2369 N84-25213 #
DE84-005696 ..... 12 p1847 N84-22043* #
DE84-005714 ..... 11 p1654 N84-20796 #
DE84-005717 ..... 14 p2224 N84-24345 #
DE84-005718 ..... 13 p2041 N84-23243 #
DE84-005722 ..... 12 p1863 N84-22139 #
DE84-005724 ..... 11 p1745 N84-21390 #
DE84-005734 ..... 15 p2344 N84-25070 #
DE84-005735 ..... 13 p2044 N84-23260 #
DE84-005737 ..... 13 p2043 N84-23259 #
DE84-005738 ..... 12 p1911 N84-22449 #
DE84-005739 ..... 22 p3549 N84-32467 #
DE84-005742 ..... 11 p1685 N84-20864 #
DE84-005746 ..... 12 p1802 N84-21748 #
DE84-005751 ..... 12 p1813 N84-21819 #
DE84-005752 ..... 12 p1910 N84-22447 #

DE84-005753 ..... 13 p2010 N84-23036 #
DE84-005755 ..... 12 p1819 N84-21854 #
DE84-005758 ..... 12 p1919 N84-22506 #
DE84-005768 ..... 12 p1799 N84-21734 #
DE84-005769 ..... 12 p1908 N84-22432 #
DE84-005808 ..... 11 p1738 N84-21338 #
DE84-005813 ..... 11 p1665 N84-20865 #
DE84-005816 ..... 11 p1653 N84-20795 #
DE84-005817 ..... 12 p1813 N84-21817 #
DE84-005829 ..... 11 p1634 N84-20681 #
DE84-005830 ..... 11 p1653 N84-20794 #
DE84-005831 ..... 20 p3184 N84-30234 #
DE84-005859 ..... 11 p1672 N84-20910 #
DE84-005860 ..... 11 p1675 N84-20930 #
DE84-005865 ..... 11 p1732 N84-21299 #
DE84-005866 ..... 15 p2418 N84-25522 #
DE84-005873 ..... 12 p1919 N84-22505 #
DE84-005876 ..... 11 p1661 N84-20834 #
DE84-005878 ..... 11 p1654 N84-20799 #
DE84-005880 ..... 21 p3501 N84-32187 #
DE84-005881 ..... 11 p1629 N84-20661 #
DE84-005883 ..... 11 p1688 N84-21011 #
DE84-005884 ..... 11 p1634 N84-20684 #
DE84-005888 ..... 12 p1864 N84-22144 #
DE84-005891 ..... 12 p1802 N84-21750 #
DE84-005892 ..... 12 p1817 N84-21843 #
DE84-005895 ..... 12 p1903 N84-22391 #
DE84-008005 ..... 14 p2225 N84-24353 #
DE84-008006 ..... 19 p3011 N84-29086 #
DE84-008007 ..... 12 p1824 N84-21891 #
DE84-008011 ..... 12 p1916 N84-22483 #
DE84-008013 ..... 15 p2298 N84-24791 #
DE84-008014 ..... 12 p1915 N84-22479 #
DE84-008016 ..... 23 p3712 N84-33529 #
DE84-008022 ..... 12 p1916 N84-22482 #
DE84-008024 ..... 11 p1664 N84-20856 #
DE84-008028 ..... 11 p1732 N84-21300 #
DE84-008033 ..... 20 p3285 N84-30860 #
DE84-008035 ..... 19 p3020 N84-29149 #
DE84-008043 ..... 12 p1878 N84-22239 #
DE84-008044 ..... 11 p1716 N84-21194 #
DE84-008045 ..... 11 p1738 N84-21340 #
DE84-008048 ..... 14 p2121 N84-23709 #
DE84-008052 ..... 11 p1675 N84-20931 #
DE84-008053 ..... 12 p1836 N84-21972 #
DE84-008059 ..... 12 p1884 N84-22281 #
DE84-008061 ..... 12 p1911 N84-22452 #
DE84-008074 ..... 12 p1848 N84-22045 #
DE84-008099 ..... 12 p1813 N84-21818 #
DE84-008112 ..... 11 p1693 N84-21041 #
DE84-008124 ..... 11 p1674 N84-20921 #
DE84-008126 ..... 11 p1635 N84-20691 #
DE84-008130 ..... 12 p1903 N84-22392 #
DE84-008132 ..... 12 p1910 N84-22446 #
DE84-008133 ..... 20 p3170 N84-30132 #
DE84-008134 ..... 22 p3606 N84-32844 #
DE84-008153 ..... 20 p3198 N84-30308 #
DE84-008205 ..... 11 p1634 N84-20685 #
DE84-008209 ..... 12 p1903 N84-22393 #
DE84-008219 ..... 11 p1676 N84-20934 #
DE84-008221 ..... 12 p1861 N84-22124 #
DE84-008222 ..... 11 p1676 N84-20938 #
DE84-008225 ..... 13 p1965 N84-22766 #
DE84-008230 ..... 14 p2120 N84-23708 #
DE84-008232 ..... 15 p2359 N84-25157 #
DE84-008244 ..... 12 p1817 N84-21842 #
DE84-008250 ..... 11 p1717 N84-21198 #
DE84-008265 ..... 11 p1661 N84-20837 #
DE84-008275 ..... 11 p1709 N84-21142 #
DE84-008287 ..... 12 p1819 N84-21855 #
DE84-008296 ..... 12 p1813 N84-21820 #
DE84-008298 ..... 20 p3154 N84-30026 #
DE84-008300 ..... 22 p3548 N84-32463 #
DE84-008301 ..... 23 p3715 N84-33550 #
DE84-008311 ..... 13 p1965 N84-22765 #
DE84-008317 ..... 12 p1895 N84-22344 #
DE84-008318 ..... 13 p2009 N84-23032 #
DE84-008320 ..... 11 p1746 N84-21397 #
DE84-008321 ..... 11 p1629 N84-20660 #
DE84-008323 ..... 15 p2420 N84-25536 #
DE84-008326 ..... 12 p1884 N84-22260 #
DE84-008340 ..... 15 p2363 N84-25178 #
DE84-008341 ..... 19 p3037 N84-29263 #
DE84-008344 ..... 12 p1822 N84-21678 #
DE84-008349 ..... 14 p2123 N84-23726 #
DE84-008364 ..... 15 p2333 N84-25012 #
DE84-008365 ..... 13 p2009 N84-23031 #
DE84-008385 ..... 22 p3594 N84-32761 #
DE84-008389 ..... 11 p1647 N84-20772 #
DE84-008391 ..... 12 p1895 N84-22345 #
DE84-008405 ..... 22 p3596 N84-32771 #
DE84-008407 ..... 20 p3185 N84-30236 #
DE84-008409 ..... 12 p1916 N84-22481 #
DE84-008411 ..... 14 p2130 N84-23769 #
DE84-008415 ..... 20 p3157 N84-30049 #
DE84-008417 ..... 14 p2180 N84-24055 #
DE84-008420 ..... 22 p3562 N84-32559 #
DE84-008424 ..... 13 p2017 N84-23077 #
DE84-008426 ..... 12 p1814 N84-21822 #
DE84-008434 ..... 20 p3158 N84-30057 #
DE84-008436 ..... 19 p2995 N84-28978 #
DE84-008438 ..... 11 p1709 N84-21143 #
DE84-008444 ..... 12 p1813 N84-21821 #
DE84-008447 ..... 14 p2243 N84-24469 #
DE84-008449 ..... 20 p3189 N84-30260 #
DE84-008452 ..... 12 p1798 N84-21731 #
DE84-008455 ..... 11 p1716 N84-21193 #
DE84-008464 ..... 13 p1927 N84-22541 #
DE84-008471 ..... 11 p1666 N84-20868 #
DE84-008474 ..... 14 p2243 N84-24470 #
DE84-008475 ..... 12 p1844 N84-22021 #
DE84-008476 ..... 14 p2151 N84-23887 #
DE84-008486 ..... 15 p2393 N84-25361 #
DE84-008490 ..... 11 p1716 N84-21195 #
DE84-008492 ..... 11 p1730 N84-21289 #
DE84-008502 ..... 11 p1704 N84-21110 #
DE84-008504 ..... 11 p1661 N84-20836 #
DE84-008505 ..... 19 p3051 N84-29362 #
DE84-008509 ..... 12 p1861 N84-22125 #
DE84-008510 ..... 12 p1845 N84-22030 #
DE84-008527 ..... 12 p1814 N84-21823 #
DE84-008534 ..... 12 p1903 N84-22395 #
DE84-008542 ..... 15 p2344 N84-25071 #
DE84-008545 ..... 14 p2223 N84-24343 #
DE84-008550 ..... 21 p3401 N84-31579 #
DE84-008553 ..... 20 p3185 N84-30238 #
DE84-008554 ..... 20 p3302 N84-30971 #
DE84-008555 ..... 15 p2405 N84-25438 #
DE84-008556 ..... 12 p1803 N84-21755 #
DE84-008557 ..... 12 p1803 N84-21754 #
DE84-008562 ..... 12 p1915 N84-22480 #
DE84-008566 ..... 12 p1799 N84-21733 #
DE84-008575 ..... 15 p2359 N84-25158 #
DE84-008579 ..... 12 p1845 N84-22029 #
DE84-008587 ..... 12 p1892 N84-22321 #
DE84-008588 ..... 21 p3362 N84-31330 #
DE84-008599 ..... 12 p1802 N84-21747 #
DE84-008606 ..... 13 p1987 N84-22899 #
DE84-008610 ..... 12 p1903 N84-22390 #
DE84-008613 ..... 11 p1654 N84-20797 #
DE84-008624 ..... 14 p2223 N84-24339 #
DE84-008625 ..... 14 p2123 N84-23725 #
DE84-008629 ..... 12 p1915 N84-22476 #
DE84-008634 ..... 12 p1903 N84-22394 #
DE84-008637 ..... 14 p2123 N84-23727 #
DE84-008640 ..... 14 p2129 N84-23762 #
DE84-008641 ..... 13 p1965 N84-22764 #
DE84-008644 ..... 12 p1911 N84-22451 #
DE84-008649 ..... 14 p2169 N84-23992 #
DE84-008653 ..... 14 p2130 N84-23770 #
DE84-008662 ..... 14 p2229 N84-24369 #
DE84-008663 ..... 20 p3294 N84-30917 #
DE84-008664 ..... 14 p2243 N84-24468 #
DE84-008670 ..... 12 p1910 N84-22442 #
DE84-008679 ..... 12 p1799 N84-21732 #
DE84-008682 ..... 11 p1654 N84-20798 #
DE84-008683 ..... 12 p1911 N84-22450 #
DE84-008689 ..... 15 p2414 N84-25491 #
DE84-008693 ..... 12 p1904 N84-22399 #
DE84-008696 ..... 11 p1728 N84-21272 #
DE84-008698 ..... 12 p1794 N84-21698 #
DE84-008714 ..... 14 p2229 N84-24367 #
DE84-008718 ..... 14 p2249 N84-24510 #
DE84-008720 ..... 15 p2404 N84-25432 #
DE84-008722 ..... 20 p3246 N84-30602 #
DE84-008724 ..... 12 p1910 N84-22443 #
DE84-008734 ..... 13 p1987 N84-22898 #
DE84-008737 ..... 13 p2048 N84-23268 #
DE84-008745 ..... 14 p2230 N84-24372 #
DE84-008747 ..... 12 p1843 N84-22013 #
DE84-008753 ..... 13 p2045 N84-23269 #
DE84-008758 ..... 15 p2414 N84-25494 #
DE84-008761 ..... 13 p2048 N84-23287 #
DE84-008762 ..... 13 p2045 N84-23271 #
DE84-008771 ..... 22 p3548 N84-32459 #
DE84-008772 ..... 13 p2048 N84-23286 #
DE84-008776 ..... 19 p3113 N84-29782 #
DE84-008784 ..... 14 p2148 N84-23869 #
DE84-008829 ..... 14 p2173 N84-24013 #
DE84-008832 ..... 12 p1794 N84-21697 #
DE84-008847 ..... 14 p2124 N84-23729 #
DE84-008851 ..... 14 p2229 N84-24370 #
DE84-008852 ..... 12 p1902 N84-22388 #
DE84-008867 ..... 14 p2223 N84-24338 #
DE84-008878 ..... 15 p2414 N84-25497 #
DE84-008879 ..... 15 p2414 N84-25495 #
DE84-008881 ..... 13 p2006 N84-23014 #
DE84-008882 ..... 14 p2173 N84-24015 #
DE84-008883 ..... 13 p2009 N84-23030 #
DE84-008913 ..... 12 p1844 N84-22024 #
DE84-008916 ..... 12 p1844 N84-22023 #
DE84-008918 ..... 14 p2170 N84-23998 #

DE84-006919 ..... 15 p2365 N84-25190 #
DE84-006920 ..... 14 p2173 N84-24014 #
DE84-006921 ..... 12 p1843 N84-22019 #
DE84-006963 ..... 21 p3401 N84-31574 #
DE84-006964 ..... 22 p3641 N84-33085 #
DE84-006967 ..... 19 p3025 N84-29184 #
DE84-006976 ..... 12 p1902 N84-22387 #
DE84-006980 ..... 13 p2009 N84-23033 #
DE84-006987 ..... 13 p1958 N84-22726 #
DE84-006990 ..... 12 p1904 N84-22397 #
DE84-006991 ..... 12 p1816 N84-21841 #
DE84-007014 ..... 14 p2206 N84-24239 #
DE84-007016 ..... 14 p2172 N84-24011 #
DE84-007017 ..... 14 p2230 N84-24373 #
DE84-007018 ..... 13 p2045 N84-23273 #
DE84-007084 ..... 12 p1824 N84-21892 #
DE84-007086 ..... 12 p1902 N84-22389 #
DE84-007089 ..... 13 p2045 N84-23270 #
DE84-007091 ..... 12 p1848 N84-22044 #
DE84-007093 ..... 12 p1878 N84-22238 #
DE84-007102 ..... 12 p1816 N84-21840 #
DE84-007103 ..... 12 p1802 N84-21749 #
DE84-007113 ..... 12 p1823 N84-21885 #
DE84-007182 ..... 13 p1990 N84-22920 #
DE84-007184 ..... 14 p2124 N84-23728 #
DE84-007193 ..... 22 p3615 N84-32902 #
DE84-007194 ..... 14 p2135 N84-23793 #
DE84-007197 ..... 15 p2406 N84-25440 #
DE84-007209 ..... 15 p2299 N84-24798 #
DE84-007214 ..... 14 p2244 N84-24472 #
DE84-007232 ..... 13 p1996 N84-22954 #
DE84-007235 ..... 14 p2225 N84-24354 #
DE84-007243 ..... 13 p1998 N84-22964 #
DE84-007244 ..... 13 p2002 N84-22989 #
DE84-007246 ..... 14 p2148 N84-23871 #
DE84-007247 ..... 15 p2337 N84-25032 #
DE84-007249 ..... 15 p2389 N84-25330 #
DE84-007251 ..... 19 p3103 N84-29715 #
DE84-007267 ..... 15 p2406 N84-25442 #
DE84-007273 ..... 13 p1961 N84-22741 #
DE84-007274 ..... 15 p2421 N84-25537 #
DE84-007275 ..... 15 p2421 N84-25538 #
DE84-007276 ..... 15 p2298 N84-24795 #
DE84-007278 ..... 15 p2378 N84-25275 #
DE84-007279 ..... 21 p3374 N84-31414 #
DE84-007285 ..... 15 p2412 N84-25479 #
DE84-007289 ..... 15 p2399 N84-25395 #
DE84-007290 ..... 15 p2413 N84-25490 #
DE84-007292 ..... 15 p2410 N84-25469 #
DE84-007299 ..... 15 p2298 N84-24794 #
DE84-007300 ..... 15 p2299 N84-24796 #
DE84-007318 ..... 20 p3257 N84-30673 #
DE84-007338 ..... 15 p2406 N84-25441 #
DE84-007340 ..... 15 p2258 N84-24563 #
DE84-007362 ..... 12 p1794 N84-21696 #
DE84-007364 ..... 15 p2287 N84-24724 #
DE84-007368 ..... 20 p3156 N84-30042 #
DE84-007377 ..... 15 p2405 N84-25437 #
DE84-007378 ..... 14 p2223 N84-24340 #
DE84-007385 ..... 15 p2299 N84-24799 #
DE84-007389 ..... 21 p3374 N84-31410 #
DE84-007400 ..... 20 p3294 N84-30914 #
DE84-007412 ..... 21 p3462 N84-31951 #
DE84-007433 ..... 15 p2364 N84-25185 #
DE84-007440 ..... 14 p2149 N84-23875 #
DE84-007446 ..... 14 p2220 N84-24321 #
DE84-007447 ..... 12 p1884 N84-22279 #
DE84-007449 ..... 15 p2411 N84-25477 #
DE84-007464 ..... 14 p2121 N84-23710 #
DE84-007466 ..... 20 p3194 N84-30285 #
DE84-007467 ..... 15 p2411 N84-25473 #
DE84-007469 ..... 15 p2339 N84-25043 #
DE84-007470 ..... 19 p3108 N84-29748 #
DE84-007476 ..... 14 p2230 N84-24377 #
DE84-007477 ..... 20 p3284 N84-30853 #
DE84-007480 ..... 14 p2176 N84-24037 #
DE84-007481 ..... 19 p3002 N84-29028 #
DE84-007485 ..... 15 p2412 N84-25478 #
DE84-007487 ..... 14 p2230 N84-24371 #
DE84-007488 ..... 16 p2559 N84-26415 #
DE84-007489 ..... 14 p2230 N84-24376 #
DE84-007490 ..... 20 p3304 N84-30984 #
DE84-007491 ..... 20 p3305 N84-30989 #
DE84-007492 ..... 20 p3304 N84-30987 #
DE84-007493 ..... 20 p3304 N84-30985 #
DE84-007494 ..... 20 p3304 N84-30986 #
DE84-007500 ..... 14 p2229 N84-24366 #
DE84-007501 ..... 15 p2405 N84-25436 #
DE84-007505 ..... 15 p2302 N84-24817 #
DE84-007523 ..... 15 p2411 N84-25476 #
DE84-007527 ..... 15 p2372 N84-25230 #
DE84-007531 ..... 15 p2385 N84-25304 #
DE84-007536 ..... 15 p2330 N84-24992 #
DE84-007539 ..... 15 p2351 N84-25111 #
DE84-007540 ..... 15 p2415 N84-25498 #
DE84-007542 ..... 19 p3032 N84-29232 #
DE84-007560 ..... 15 p2399 N84-25397 #
DE84-007561 ..... 15 p2333 N84-25011 #
DE84-007566 ..... 15 p2400 N84-25402 #
DE84-007569 ..... 15 p2393 N84-25362 #
DE84-007570 ..... 14 p2151 N84-23886 #
DE84-007611 ..... 22 p3655 N84-33166 #
DE84-007662 ..... 15 p2368 N84-25211 #
DE84-007685 ..... 15 p2365 N84-25189 #
DE84-007690 ..... 15 p2411 N84-25474 #
DE84-007695 ..... 20 p3155 N84-30031 #
DE84-007761 ..... 15 p2339 N84-25038 #
DE84-007762 ..... 13 p1993 N84-22937 #
DE84-007773 ..... 24 p3884 N84-34609* #
DE84-007780 ..... 14 p2149 N84-23872 #
DE84-007783 ..... 15 p2344 N84-25069 #
DE84-007785 ..... 21 p3400 N84-31571 #
DE84-007789 ..... 15 p2304 N84-24826 #
DE84-007792 ..... 14 p2249 N84-24511 #
DE84-007804 ..... 15 p2337 N84-25031 #
DE84-007805 ..... 14 p2142 N84-23847 #
DE84-007806 ..... 18 p2812 N84-27849 #
DE84-007871 ..... 14 p2243 N84-24467 #
DE84-007884 ..... 14 p2222 N84-24337 #
DE84-007889 ..... 15 p2414 N84-25496 #
DE84-007907 ..... 15 p2411 N84-25471 #
DE84-007911 ..... 20 p3294 N84-30913 #
DE84-007915 ..... 13 p1998 N84-22963 #
DE84-007916 ..... 20 p3185 N84-30239 #
DE84-007927 ..... 13 p2045 N84-23272 #
DE84-007945 ..... 14 p2149 N84-23874 #
DE84-007954 ..... 20 p3304 N84-30983 #
DE84-007963 ..... 15 p2288 N84-24729 #
DE84-007964 ..... 19 p3105 N84-29729 #
DE84-007966 ..... 15 p2287 N84-24725 #
DE84-007973 ..... 20 p3247 N84-30609 #
DE84-007977 ..... 14 p2159 N84-23932 #
DE84-007978 ..... 15 p2418 N84-25521 #
DE84-007980 ..... 18 p2953 N84-28716 #
DE84-007983 ..... 14 p2229 N84-24368 #
DE84-007989 ..... 14 p2224 N84-24344 #
DE84-008001 ..... 14 p2142 N84-23846 #
DE84-008006 ..... 14 p2230 N84-24374 #
DE84-008014 ..... 20 p3306 N84-30996 #
DE84-008018 ..... 20 p3296 N84-30926 #
DE84-008021 ..... 19 p3116 N84-29802 #
DE84-008031 ..... 18 p2945 N84-28677 #
DE84-008034 ..... 21 p3504 N84-32208 #
DE84-008035 ..... 14 p2243 N84-24466 #
DE84-008039 ..... 15 p2363 N84-25181 #
DE84-008042 ..... 18 p2876 N84-28260 #
DE84-008162 ..... 15 p2393 N84-25360 #
DE84-008172 ..... 15 p2340 N84-25045 #
DE84-008181 ..... 15 p2411 N84-25470 #
DE84-008184 ..... 15 p2364 N84-25187 #
DE84-008201 ..... 15 p2258 N84-24562 #
DE84-008203 ..... 19 p3028 N84-29202 #
DE84-008207 ..... 15 p2407 N84-25447 #
DE84-008209 ..... 14 p2141 N84-23840 #
DE84-008210 ..... 15 p2368 N84-25212 #
DE84-008215 ..... 14 p2143 N84-23849 #
DE84-008242 ..... 20 p3154 N84-30027 #
DE84-008243 ..... 15 p2412 N84-25480 #
DE84-008244 ..... 20 p3166 N84-30107 #
DE84-008245 ..... 15 p2364 N84-25184 #
DE84-008246 ..... 14 p2252 N84-24525 #
DE84-008247 ..... 14 p2128 N84-23761 #
DE84-008248 ..... 14 p2243 N84-24471 #
DE84-008249 ..... 19 p3025 N84-29183 #
DE84-008250 ..... 15 p2414 N84-25492 #
DE84-008252 ..... 14 p2214 N84-24301 #
DE84-008255 ..... 14 p2225 N84-24355 #
DE84-008257 ..... 15 p2369 N84-25214 #
DE84-008272 ..... 14 p2230 N84-24378 #
DE84-008273 ..... 15 p2339 N84-25042 #
DE84-008289 ..... 15 p2288 N84-24728 #
DE84-008296 ..... 20 p3149 N84-29996 #
DE84-008297 ..... 15 p2395 N84-25367 #
DE84-008304 ..... 15 p2288 N84-24726 #
DE84-008325 ..... 20 p3203 N84-30344 #
DE84-008326 ..... 19 p3028 N84-29203 #
DE84-008327 ..... 15 p2421 N84-25539 #
DE84-008328 ..... 15 p2365 N84-25188 #
DE84-008330 ..... 19 p3109 N84-29752 #
DE84-008331 ..... 15 p2304 N84-24827 #
DE84-008336 ..... 14 p2230 N84-24375 #
DE84-008345 ..... 14 p2244 N84-24473 #
DE84-008348 ..... 20 p3194 N84-30283 #
DE84-008355 ..... 15 p2363 N84-25177 #
DE84-008356 ..... 14 p2173 N84-24012 #
DE84-008360 ..... 14 p2142 N84-23848 #
DE84-008380 ..... 21 p3359 N84-31308 #
DE84-008381 ..... 19 p3030 N84-29218 #
DE84-008487 ..... 19 p3112 N84-29773 #
DE84-008489 ..... 19 p3112 N84-29772 #
DE84-008491 ..... 19 p2995 N84-28979 #
DE84-008492 ..... 18 p2815 N84-27869 #

DE84-008494 ..... 18 p2945 N84-28675 #
DE84-008495 ..... 20 p3181 N84-30210 #
DE84-008509 ..... 18 p2930 N84-28581 #
DE84-008512 ..... 18 p2815 N84-27868 #
DE84-008513 ..... 22 p3605 N84-32637 #
DE84-008515 ..... 18 p2878 N84-28273 #
DE84-008517 ..... 18 p2849 N84-28092 #
DE84-008536 ..... 19 p3080 N84-29546 #
DE84-008551 ..... 20 p3262 N84-30840 #
DE84-008555 ..... 18 p2941 N84-28655 #
DE84-008557 ..... 18 p2941 N84-28654 #
DE84-008573 ..... 19 p3109 N84-29753 #
DE84-008579 ..... 20 p3293 N84-30904 #
DE84-008584 ..... 18 p2891 N84-28349 #
DE84-008587 ..... 18 p2942 N84-28657 #
DE84-008589 ..... 20 p3198 N84-30311 #
DE84-008645 ..... 18 p2930 N84-28580 #
DE84-008649 ..... 20 p3313 N84-31041 #
DE84-008652 ..... 20 p3154 N84-30025 #
DE84-008655 ..... 19 p2966 N84-28922 #
DE84-008661 ..... 19 p2996 N84-28981 #
DE84-008664 ..... 20 p3157 N84-30048 #
DE84-008665 ..... 20 p3302 N84-30970 #
DE84-008666 ..... 19 p3112 N84-29771 #
DE84-008668 ..... 20 p3311 N84-31027 #
DE84-008675 ..... 18 p2933 N84-28602 #
DE84-008680 ..... 18 p2931 N84-28585 #
DE84-008699 ..... 19 p3018 N84-29137 #
DE84-008800 ..... 18 p2878 N84-28272 #
DE84-008802 ..... 20 p3170 N84-30133 #
DE84-008808 ..... 18 p2928 N84-28566 #
DE84-008810 ..... 18 p2933 N84-28600 #
DE84-008812 ..... 19 p2990 N84-28945 #
DE84-008814 ..... 18 p2941 N84-28653 #
DE84-008816 ..... 19 p3019 N84-29139 #
DE84-008855 ..... 21 p3501 N84-32191 #
DE84-008857 ..... 18 p2933 N84-28599 #
DE84-008858 ..... 21 p3502 N84-32197 #
DE84-008894 ..... 20 p3310 N84-31023 #
DE84-008899 ..... 18 p2815 N84-27870 #
DE84-008901 ..... 18 p2934 N84-28605 #
DE84-008902 ..... 19 p3090 N84-29621 #
DE84-008903 ..... 20 p3175 N84-30161 #
DE84-008904 ..... 20 p3145 N84-29967 #
DE84-008905 ..... 20 p3187 N84-30250 #
DE84-008906 ..... 19 p3116 N84-29803 #
DE84-008932 ..... 18 p2812 N84-27852 #
DE84-008933 ..... 19 p3090 N84-29620 #
DE84-008934 ..... 18 p2847 N84-28077 #
DE84-008935 ..... 21 p3401 N84-31572 #
DE84-008941 ..... 19 p3106 N84-29737 #
DE84-008945 ..... 20 p3193 N84-30276 #
DE84-008947 ..... 20 p3179 N84-30192 #
DE84-008964 ..... 18 p2834 N84-27994 #
DE84-008973 ..... 20 p3181 N84-30206 #
DE84-008975 ..... 20 p3181 N84-30209 #
DE84-008977 ..... 20 p3198 N84-30310 #
DE84-008982 ..... 20 p3179 N84-30195 #
DE84-008986 ..... 20 p3163 N84-30088 #
DE84-008989 ..... 18 p2815 N84-27871 #
DE84-008996 ..... 19 p3057 N84-29395 #
DE84-008998 ..... 20 p3149 N84-29997 #
DE84-009024 ..... 15 p2340 N84-25044 #
DE84-009032 ..... 20 p3247 N84-30610 #
DE84-009033 ..... 14 p2180 N84-24056 #
DE84-009045 ..... 20 p3298 N84-30946 #
DE84-009046 ..... 15 p2288 N84-24727 #
DE84-009054 ..... 15 p2411 N84-25472 #
DE84-009057 ..... 15 p2416 N84-25502 #
DE84-009064 ..... 20 p3180 N84-30199 #
DE84-009065 ..... 20 p3181 N84-30211 #
DE84-009067 ..... 20 p3203 N84-30346 #
DE84-009080 ..... 20 p3296 N84-30927 #
DE84-009082 ..... 15 p2418 N84-25523 #
DE84-009085 ..... 15 p2322 N84-24940 #
DE84-009091 ..... 20 p3282 N84-30839 #
DE84-009092 ..... 19 p3106 N84-29750 #
DE84-009097 ..... 15 p2330 N84-24990 #
DE84-009099 ..... 15 p2330 N84-24991 #
DE84-009101 ..... 20 p3298 N84-30941 #
DE84-009107 ..... 15 p2420 N84-25534 #
DE84-009110 ..... 15 p2414 N84-25493 #
DE84-009126 ..... 20 p3298 N84-30931 #
DE84-009138 ..... 21 p3495 N84-32152 #
DE84-009139 ..... 20 p3305 N84-30988 #
DE84-009147 ..... 19 p3102 N84-29707 #
DE84-009152 ..... 20 p3310 N84-31025 #
DE84-009154 ..... 19 p3103 N84-29710 #
DE84-009159 ..... 19 p3112 N84-29774 #
DE84-009161 ..... 15 p2399 N84-25396 #
DE84-009179 ..... 15 p2364 N84-25186 #
DE84-009180 ..... 20 p3274 N84-30781 #
DE84-009188 ..... 20 p3303 N84-30976 #
DE84-009195 ..... 15 p2411 N84-25475 #
DE84-009205 ..... 19 p3026 N84-29193 #
DE84-009206 ..... 15 p2406 N84-25443 #
DE84-009212 ..... 15 p2396 N84-25372 #
DE84-009215 ..... 19 p3071 N84-29485 #
DE84-009223 ..... 21 p3498 N84-32173 #
DE84-009224 ..... 19 p3033 N84-29238 #
DE84-009225 ..... 20 p3294 N84-30912 #
DE84-009226 ..... 19 p2996 N84-28982 #
DE84-009233 ..... 20 p3187 N84-30249 #
DE84-009237 ..... 21 p3359 N84-31310 #
DE84-009239 ..... 19 p3112 N84-29775 #
DE84-009240 ..... 19 p3030 N84-29217 #
DE84-009241 ..... 19 p3105 N84-29726 #
DE84-009242 ..... 20 p3274 N84-30784 #
DE84-009246 ..... 21 p3362 N84-31327 #
DE84-009326 ..... 21 p3362 N84-31329 #
DE84-009356 ..... 15 p2419 N84-25524 #
DE84-009363 ..... 21 p3518 N84-32288 #
DE84-009401 ..... 20 p3282 N84-30841 #
DE84-009402 ..... 20 p3305 N84-30993 #
DE84-009405 ..... 15 p2299 N84-24800 #
DE84-009432 ..... 20 p3238 N84-30557 #
DE84-009447 ..... 19 p3102 N84-29705 #
DE84-009448 ..... 21 p3435 N84-31791 #
DE84-009474 ..... 20 p3235 N84-30538 #
DE84-009483 ..... 19 p3018 N84-29136 #
DE84-009485 ..... 20 p3191 N84-30269 #
DE84-009486 ..... 20 p3274 N84-30785 #
DE84-009487 ..... 19 p2995 N84-28980 #
DE84-009488 ..... 19 p3112 N84-29776 #
DE84-009500 ..... 15 p2305 N84-24828 #
DE84-009532 ..... 19 p3009 N84-29073 #
DE84-009533 ..... 15 p2395 N84-25368* #
DE84-009534 ..... 18 p2847 N84-28080 #
DE84-009535 ..... 19 p3030 N84-29216 #
DE84-009536 ..... 19 p3108 N84-29747 #
DE84-009538 ..... 19 p3108 N84-29746 #
DE84-009549 ..... 18 p2853 N84-28118 #
DE84-009585 ..... 20 p3197 N84-30304 #
DE84-009586 ..... 22 p3590 N84-32741 #
DE84-009587 ..... 22 p3564 N84-32570 #
DE84-009591 ..... 21 p3497 N84-32165 #
DE84-009623 ..... 24 p3684 N84-34610* #
DE84-009624 ..... 20 p3166 N84-30108 #
DE84-009625 ..... 21 p3501 N84-32188 #
DE84-009629 ..... 22 p3595 N84-32766 #
DE84-009635 ..... 22 p3560 N84-32545 #
DE84-009658 ..... 19 p3027 N84-29200 #
DE84-009659 ..... 19 p3109 N84-29754 #
DE84-009660 ..... 21 p3368 N84-31369 #
DE84-009668 ..... 20 p3296 N84-30930 #
DE84-009669 ..... 20 p3180 N84-30202 #
DE84-009672 ..... 19 p3107 N84-29745 #
DE84-009675 ..... 19 p3102 N84-29706 #
DE84-009679 ..... 20 p3229 N84-30518 #
DE84-009683 ..... 20 p3305 N84-30991 #
DE84-009688 ..... 18 p2933 N84-28603 #
DE84-009693 ..... 20 p3167 N84-30110 #
DE84-009702 ..... 18 p2847 N84-28079 #
DE84-009703 ..... 18 p2847 N84-28078 #
DE84-009714 ..... 18 p2927 N84-28564 #
DE84-009715 ..... 19 p3108 N84-29749 #
DE84-009731 ..... 19 p3032 N84-29233 #
DE84-009734 ..... 19 p3000 N84-29014 #
DE84-009735 ..... 19 p3002 N84-29024 #
DE84-009754 ..... 21 p3359 N84-31307 #
DE84-009757 ..... 20 p3237 N84-30546 #
DE84-009758 ..... 20 p3236 N84-30545 #
DE84-009759 ..... 19 p3051 N84-29363 #
DE84-009762 ..... 20 p3247 N84-30606 #
DE84-009785 ..... 19 p3103 N84-29716 #
DE84-009794 ..... 19 p3073 N84-29497 #
DE84-009795 ..... 18 p2847 N84-28076 #
DE84-009842 ..... 18 p2934 N84-28604 #
DE84-009849 ..... 20 p3157 N84-30051 #
DE84-009850 ..... 19 p3059 N84-29410 #
DE84-009857 ..... 19 p3106 N84-29738 #
DE84-009862 ..... 19 p3102 N84-29706 #
DE84-009866 ..... 19 p3079 N84-29539 #
DE84-009867 ..... 19 p3102 N84-29709 #
DE84-009874 ..... 20 p3198 N84-30312 #
DE84-009916 ..... 20 p3166 N84-30109 #
DE84-009921 ..... 20 p3164 N84-30095 #
DE84-009927 ..... 20 p3298 N84-30945 #
DE84-009928 ..... 18 p2819 N84-27899 #
DE84-009970 ..... 20 p3305 N84-30990 #
DE84-009972 ..... 23 p3830 N84-34297 #
DE84-009973 ..... 20 p3302 N84-30972 #
DE84-009984 ..... 22 p3666 N84-33244 #
DE84-009985 ..... 22 p3666 N84-33243 #
DE84-009986 ..... 20 p3273 N84-30780 #
DE84-009987 ..... 21 p3506 N84-32215 #
DE84-009988 ..... 20 p3305 N84-30992 #
DE84-009990 ..... 22 p3666 N84-33245 #
DE84-009991 ..... 22 p3556 N84-32515 #
DE84-009992 ..... 21 p3502 N84-32198 #
DE84-009994 ..... 20 p3241 N84-30576 #
DE84-009995 ..... 21 p3496 N84-32160 #

DE84-009996 ..... 21 p3502 N84-32199 #
DE84-009997 ..... 18 p2933 N84-28601 #
DE84-009998 ..... 19 p3030 N84-29219 #
DE84-010001 ..... 19 p3079 N84-29540 #
DE84-010004 ..... 20 p3303 N84-30973 #
DE84-010029 ..... 15 p2415 N84-25499 #
DE84-010033 ..... 15 p2363 N84-25179 #
DE84-010040 ..... 21 p3395 N84-31546 #
DE84-010052 ..... 20 p3203 N84-30349 #
DE84-010053 ..... 20 p3319 N84-31072 #
DE84-010054 ..... 20 p3284 N84-30854 #
DE84-010059 ..... 20 p3247 N84-30607 #
DE84-010062 ..... 20 p3299 N84-30947 #
DE84-010064 ..... 20 p3303 N84-30975 #
DE84-010066 ..... 20 p3156 N84-30039 #
DE84-010068 ..... 22 p3555 N84-32514 #
DE84-010070 ..... 21 p3498 N84-32174 #
DE84-010071 ..... 20 p3279 N84-30813 #
DE84-010072 ..... 22 p3665 N84-33233 #
DE84-010074 ..... 20 p3242 N84-30582 #
DE84-010076 ..... 22 p3665 N84-33232 #
DE84-010086 ..... 19 p3052 N84-29371 #
DE84-010087 ..... 19 p3059 N84-29409 #
DE84-010089 ..... 19 p3030 N84-29215 #
DE84-010101 ..... 20 p3168 N84-30113 #
DE84-010107 ..... 15 p2363 N84-25180 #
DE84-010108 ..... 19 p3000 N84-29013 #
DE84-010113 ..... 20 p3251 N84-30635 #
DE84-010124 ..... 19 p3103 N84-29711 #
DE84-010131 ..... 20 p3157 N84-30046 #
DE84-010145 ..... 20 p3309 N84-31017 #
DE84-010148 ..... 19 p3018 N84-29138 #
DE84-010161 ..... 22 p3543 N84-32432 #
DE84-010213 ..... 19 p2986 N84-28923 #
DE84-010214 ..... 19 p3003 N84-29029 #
DE84-010216 ..... 19 p2990 N84-28946 #
DE84-010217 ..... 20 p3149 N84-29995 #
DE84-010225 ..... 21 p3374 N84-31411 #
DE84-010226 ..... 21 p3374 N84-31409 #
DE84-010230 ..... 20 p3187 N84-30251 #
DE84-010240 ..... 15 p2344 N84-25072 #
DE84-010253 ..... 19 p3059 N84-29408 #
DE84-010265 ..... 18 p2945 N84-28676 #
DE84-010267 ..... 18 p2812 N84-27850 #
DE84-010280 ..... 18 p2853 N84-28117 #
DE84-010282 ..... 20 p3294 N84-30915 #
DE84-010284 ..... 22 p3612 N84-32884 #
DE84-010287 ..... 20 p3179 N84-30196 #
DE84-010294 ..... 20 p3290 N84-30889 #
DE84-010327 ..... 20 p3189 N84-30259 #
DE84-010361 ..... 18 p2943 N84-28660 #
DE84-010380 ..... 18 p2921 N84-28526 #
DE84-010381 ..... 18 p2853 N84-28116 #
DE84-010390 ..... 18 p2844 N84-28063 #
DE84-010397 ..... 20 p3155 N84-30034 #
DE84-010402 ..... 20 p3155 N84-30035 #
DE84-010406 ..... 21 p3474 N84-32017 #
DE84-010408 ..... 18 p2926 N84-28558 #
DE84-010410 ..... 20 p3282 N84-30833 #
DE84-010422 ..... 21 p3495 N84-32148 #
DE84-010423 ..... 20 p3267 N84-30729 #
DE84-010424 ..... 20 p3295 N84-30922 #
DE84-010425 ..... 20 p3309 N84-31016 #
DE84-010428 ..... 20 p3154 N84-30029 #
DE84-010437 ..... 21 p3507 N84-32218 #
DE84-010465 ..... 21 p3392 N84-31524 #
DE84-010479 ..... 21 p3375 N84-31415 #
DE84-010480 ..... 20 p3235 N84-30533 #
DE84-010485 ..... 20 p3234 N84-30531 #
DE84-010487 ..... 18 p2814 N84-27867 #
DE84-010504 ..... 21 p3507 N84-32216 #
DE84-010505 ..... 20 p3179 N84-30190 #
DE84-010507 ..... 20 p3303 N84-30974 #
DE84-010514 ..... 20 p3155 N84-30033 #
DE84-010519 ..... 22 p3653 N84-33153 #
DE84-010536 ..... 20 p3291 N84-30896 #
DE84-010558 ..... 20 p3293 N84-30909 #
DE84-010567 ..... 19 p2989 N84-28944 #
DE84-010571 ..... 18 p2819 N84-27898 #
DE84-010573 ..... 20 p3185 N84-30240 #
DE84-010576 ..... 20 p3304 N84-30982 #
DE84-010577 ..... 20 p3303 N84-30979 #
DE84-010579 ..... 20 p3274 N84-30783 #
DE84-010581 ..... 21 p3370 N84-31385 #
DE84-010582 ..... 18 p2934 N84-28606 #
DE84-010585 ..... 18 p2812 N84-27853 #
DE84-010586 ..... 20 p3304 N84-30981 #
DE84-010591 ..... 20 p3202 N84-30342 #
DE84-010593 ..... 20 p3293 N84-30903 #
DE84-010600 ..... 22 p3649 N84-33134 #
DE84-010603 ..... 20 p3315 N84-31055 #
DE84-010617 ..... 18 p2812 N84-27854 #
DE84-010624 ..... 18 p2812 N84-27851 #
DE84-010629 ..... 20 p3150 N84-29998 #
DE84-010633 ..... 18 p2834 N84-27993 #
DE84-010636 ..... 18 p2933 N84-28598 #
DE84-010637 ..... 18 p2814 N84-27866 #
DE84-010656 ..... 21 p3409 N84-31624 #
DE84-010665 ..... 20 p3175 N84-30166 #
DE84-010668 ..... 23 p3725 N84-33603 #
DE84-010674 ..... 20 p3313 N84-31039 #
DE84-010675 ..... 20 p3313 N84-31038 #
DE84-010676 ..... 20 p3187 N84-30247 #
DE84-010679 ..... 20 p3236 N84-30544 #
DE84-010696 ..... 18 p2820 N84-27904 #
DE84-010709 ..... 21 p3392 N84-31525 #
DE84-010710 ..... 20 p3292 N84-30902 #
DE84-010712 ..... 21 p3493 N84-32137 #
DE84-010713 ..... 20 p3163 N84-30083 #
DE84-010716 ..... 20 p3296 N84-30929 #
DE84-010718 ..... 20 p3300 N84-30958 #
DE84-010719 ..... 20 p3285 N84-30858 #
DE84-010729 ..... 20 p3293 N84-30908 #
DE84-010731 ..... 20 p3305 N84-30994 #
DE84-010747 ..... 20 p3282 N84-30834 #
DE84-010750 ..... 20 p3274 N84-30782 #
DE84-010766 ..... 20 p3197 N84-30305 #
DE84-010768 ..... 20 p3197 N84-30302 #
DE84-010789 ..... 20 p3296 N84-30928 #
DE84-010793 ..... 20 p3293 N84-30905 #
DE84-010797 ..... 20 p3310 N84-31020 #
DE84-010804 ..... 21 p3493 N84-32138 #
DE84-010814 ..... 20 p3303 N84-30978 #
DE84-010822 ..... 20 p3185 N84-30241 #
DE84-010826 ..... 20 p3241 N84-30578 #
DE84-010827 ..... 21 p3445 N84-31858 #
DE84-010830 ..... 22 p3548 N84-32458 #
DE84-010842 ..... 20 p3306 N84-30999 #
DE84-010843 ..... 21 p3501 N84-32189 #
DE84-010862 ..... 20 p3163 N84-30089 #
DE84-010872 ..... 21 p3392 N84-31528 #
DE84-010874 ..... 20 p3193 N84-30282 #
DE84-010880 ..... 20 p3295 N84-30923 #
DE84-010889 ..... 20 p3164 N84-30093 #
DE84-010890 ..... 20 p3155 N84-30032 #
DE84-010892 ..... 21 p3507 N84-32217 #
DE84-010918 ..... 20 p3273 N84-30779 #
DE84-010926 ..... 20 p3242 N84-30584 #
DE84-010938 ..... 20 p3236 N84-30541 #
DE84-010952 ..... 20 p3315 N84-31056 #
DE84-010953 ..... 20 p3282 N84-30835 #
DE84-010957 ..... 20 p3313 N84-31042 #
DE84-010958 ..... 20 p3186 N84-30242 #
DE84-010960 ..... 20 p3163 N84-30086 #
DE84-010963 ..... 20 p3179 N84-30191 #
DE84-010968 ..... 20 p3285 N84-30859 #
DE84-010972 ..... 20 p3315 N84-31053 #
DE84-010978 ..... 21 p3435 N84-31797 #
DE84-010986 ..... 20 p3241 N84-30577 #
DE84-010988 ..... 21 p3401 N84-31576 #
DE84-010992 ..... 20 p3194 N84-30288 #
DE84-010993 ..... 20 p3309 N84-31018 #
DE84-010996 ..... 20 p3242 N84-30583 #
DE84-010998 ..... 20 p3186 N84-30245 #
DE84-011002 ..... 21 p3361 N84-31323 #
DE84-011003 ..... 21 p3409 N84-31619* #
DE84-011015 ..... 20 p3298 N84-30943 #
DE84-011019 ..... 20 p3282 N84-30836 #
DE84-011021 ..... 20 p3180 N84-30203 #
DE84-011024 ..... 20 p3180 N84-30200 #
DE84-011025 ..... 20 p3284 N84-30855 #
DE84-011030 ..... 20 p3295 N84-30918 #
DE84-011031 ..... 20 p3156 N84-30044 #
DE84-011034 ..... 20 p3156 N84-30040 #
DE84-011035 ..... 20 p3203 N84-30347 #
DE84-011037 ..... 20 p3156 N84-30038 #
DE84-011038 ..... 20 p3309 N84-31019 #
DE84-011042 ..... 21 p3406 N84-31603 #
DE84-011045 ..... 20 p3156 N84-30041 #
DE84-011046 ..... 21 p3367 N84-31358 #
DE84-011049 ..... 20 p3310 N84-31021 #
DE84-011053 ..... 21 p3392 N84-31526 #
DE84-011059 ..... 22 p3606 N84-32845 #
DE84-011064 ..... 21 p3358 N84-31296 #
DE84-011065 ..... 20 p3299 N84-30948 #
DE84-011066 ..... 20 p3186 N84-30244 #
DE84-011068 ..... 21 p3401 N84-31578 #
DE84-011070 ..... 20 p3298 N84-30942 #
DE84-011071 ..... 20 p3295 N84-30921 #
DE84-011072 ..... 20 p3267 N84-30727 #
DE84-011078 ..... 21 p3406 N84-31604 #
DE84-011080 ..... 20 p3146 N84-29979 #
DE84-011081 ..... 20 p3155 N84-30037 #
DE84-011082 ..... 20 p3150 N84-29999 #
DE84-011087 ..... 20 p3163 N84-30090 #
DE84-011090 ..... 20 p3303 N84-30977 #
DE84-011091 ..... 20 p3190 N84-30263 #
DE84-011093 ..... 20 p3180 N84-30204 #
DE84-011094 ..... 20 p3190 N84-30264 #
DE84-011095 ..... 20 p3163 N84-30085 #
DE84-011098 ..... 20 p3180 N84-30201 #
DE84-011100 ..... 20 p3294 N84-30916 #

DE84-011101 ..... 20 p3197 N84-30307 #
DE84-011103 ..... 20 p3190 N84-30267 #
DE84-011104 ..... 23 p3761 N84-33839 #
DE84-011105 ..... 21 p3393 N84-31530 #
DE84-011108 ..... 21 p3406 N84-31602 #
DE84-011109 ..... 20 p3300 N84-30959 #
DE84-011111 ..... 20 p3189 N84-30261 #
DE84-011113 ..... 21 p3393 N84-31529 #
DE84-011114 ..... 21 p3410 N84-31625 #
DE84-011115 ..... 20 p3181 N84-30205 #
DE84-011116 ..... 20 p3190 N84-30266 #
DE84-011127 ..... 20 p3246 N84-30604 #
DE84-011136 ..... 21 p3414 N84-31648 #
DE84-011150 ..... 20 p3301 N84-30960 #
DE84-011157 ..... 20 p3247 N84-30608 #
DE84-011163 ..... 20 p3175 N84-30164 #
DE84-011166 ..... 21 p3362 N84-31326 #
DE84-011167 ..... 20 p3197 N84-30306 #
DE84-011177 ..... 21 p3374 N84-31412 #
DE84-011186 ..... 22 p3589 N84-32734 #
DE84-011191 ..... 22 p3654 N84-33164 #
DE84-011193 ..... 21 p3394 N84-31538 #
DE84-011202 ..... 20 p3159 N84-30059 #
DE84-011205 ..... 20 p3315 N84-31054 #
DE84-011233 ..... 21 p3393 N84-31531 #
DE84-011254 ..... 20 p3310 N84-31022 #
DE84-011257 ..... 21 p3423 N84-31713 #
DE84-011260 ..... 20 p3194 N84-30286 #
DE84-011271 ..... 20 p3203 N84-30345 #
DE84-011279 ..... 20 p3150 N84-30000 #
DE84-011281 ..... 20 p3285 N84-30857 #
DE84-011283 ..... 20 p3196 N84-30295 #
DE84-011288 ..... 21 p3505 N84-32209 #
DE84-011295 ..... 20 p3190 N84-30265 #
DE84-011298 ..... 20 p3291 N84-30895 #
DE84-011300 ..... 20 p3190 N84-30262 #
DE84-011301 ..... 20 p3193 N84-30281 #
DE84-011303 ..... 21 p3434 N84-31787 #
DE84-011305 ..... 20 p3265 N84-30856 #
DE84-011308 ..... 20 p3186 N84-30243 #
DE84-011327 ..... 20 p3175 N84-30165 #
DE84-011329 ..... 20 p3312 N84-31031 #
DE84-011332 ..... 20 p3193 N84-30277 #
DE84-011336 ..... 20 p3194 N84-30289 #
DE84-011341 ..... 20 p3293 N84-30910 #
DE84-011342 ..... 20 p3277 N84-30804 #
DE84-011343 ..... 21 p3387 N84-31497 #
DE84-011345 ..... 20 p3157 N84-30047 #
DE84-011347 ..... 20 p3193 N84-30279 #
DE84-011348 ..... 20 p3193 N84-30278 #
DE84-011352 ..... 20 p3185 N84-30235 #
DE84-011353 ..... 20 p3303 N84-30980 #
DE84-011354 ..... 20 p3295 N84-30919 #
DE84-011358 ..... 20 p3164 N84-30092 #
DE84-011366 ..... 20 p3175 N84-30163 #
DE84-011368 ..... 21 p3387 N84-31498 #
DE84-011369 ..... 20 p3179 N84-30194 #
DE84-011371 ..... 20 p3194 N84-30284 #
DE84-011373 ..... 20 p3242 N84-30580 #
DE84-011374 ..... 21 p3393 N84-31533 #
DE84-011384 ..... 20 p3187 N84-30248 #
DE84-011385 ..... 21 p3387 N84-31499 #
DE84-011386 ..... 20 p3315 N84-31052 #
DE84-011387 ..... 20 p3247 N84-30611 #
DE84-011399 ..... 20 p3277 N84-30805 #
DE84-011401 ..... 20 p3154 N84-30030 #
DE84-011402 ..... 20 p3319 N84-31071 #
DE84-011403 ..... 20 p3179 N84-30197 #
DE84-011406 ..... 20 p3150 N84-30002 #
DE84-011408 ..... 20 p3295 N84-30920 #
DE84-011409 ..... 20 p3162 N84-30082 #
DE84-011412 ..... 20 p3294 N84-30911 #
DE84-011414 ..... 21 p3497 N84-32164 #
DE84-011416 ..... 20 p3193 N84-30280 #
DE84-011425 ..... 21 p3437 N84-31804 #
DE84-011442 ..... 21 p3505 N84-32213 #
DE84-011444 ..... 21 p3394 N84-31536 #
DE84-011453 ..... 20 p3150 N84-30003 #
DE84-011454 ..... 21 p3367 N84-31360 #
DE84-011455 ..... 21 p3407 N84-31608 #
DE84-011458 ..... 20 p3154 N84-30028 #
DE84-011460 ..... 20 p3198 N84-30309 #
DE84-011464 ..... 21 p3414 N84-31647 #
DE84-011475 ..... 20 p3308 N84-31007 #
DE84-011476 ..... 21 p3469 N84-31989 #
DE84-011477 ..... 21 p3502 N84-32196 #
DE84-011496 ..... 20 p3282 N84-30838 #
DE84-011502 ..... 20 p3297 N84-30933 #
DE84-011504 ..... 21 p3410 N84-31629 #
DE84-011506 ..... 21 p3367 N84-31357 #
DE84-011507 ..... 20 p3198 N84-30313 #
DE84-011523 ..... 20 p3180 N84-30198 #
DE84-011527 ..... 20 p3302 N84-30969 #
DE84-011531 ..... 21 p3435 N84-31793 #
DE84-011532 ..... 21 p3494 N84-32144 #
DE84-011533 ..... 20 p3164 N84-30091 #
DE84-011535 ..... 21 p3496 N84-32155 #
DE84-011543 ..... 21 p3406 N84-31605 #
DE84-011560 ..... 21 p3371 N84-31388 #
DE84-011562 ..... 21 p3451 N84-31898 #
DE84-011581 ..... 21 p3466 N84-31977 #
DE84-011598 ..... 20 p3229 N84-30517 #
DE84-011603 ..... 20 p3150 N84-30001 #
DE84-011616 ..... 22 p3655 N84-33167 #
DE84-011619 ..... 20 p3203 N84-30348 #
DE84-011620 ..... 20 p3226 N84-30516 #
DE84-011621 ..... 21 p3366 N84-31354 #
DE84-011626 ..... 20 p3275 N84-30788 #
DE84-011631 ..... 20 p3197 N84-30303 #
DE84-011633 ..... 20 p3196 N84-30296* #
DE84-011634 ..... 21 p3414 N84-31646 #
DE84-011635 ..... 21 p3367 N84-31362 #
DE84-011637 ..... 21 p3495 N84-32151 #
DE84-011638 ..... 21 p3361 N84-31320 #
DE84-011654 ..... 21 p3361 N84-31319 #
DE84-011655 ..... 20 p3150 N84-30006 #
DE84-011658 ..... 22 p3588 N84-32724 #
DE84-011662 ..... 21 p3360 N84-31318 #
DE84-011663 ..... 21 p3410 N84-31630 #
DE84-011664 ..... 21 p3495 N84-32150 #
DE84-011666 ..... 20 p3279 N84-30815 #
DE84-011680 ..... 21 p3394 N84-31537 #
DE84-011686 ..... 20 p3237 N84-30547 #
DE84-011702 ..... 21 p3361 N84-31324 #
DE84-011703 ..... 21 p3521 N84-32308 #
DE84-011710 ..... 21 p3401 N84-31577 #
DE84-011719 ..... 20 p3164 N84-30094 #
DE84-011726 ..... 21 p3395 N84-31545 #
DE84-011731 ..... 21 p3526 N84-32339 #
DE84-011737 ..... 21 p3525 N84-32329 #
DE84-011740 ..... 21 p3496 N84-32154 #
DE84-011741 ..... 22 p3653 N84-33158 #
DE84-011753 ..... 20 p3177 N84-30176 #
DE84-011756 ..... 20 p3181 N84-30207 #
DE84-011761 ..... 21 p3495 N84-32149 #
DE84-011764 ..... 20 p3295 N84-30924 #
DE84-011772 ..... 21 p3494 N84-32143 #
DE84-011773 ..... 21 p3496 N84-32156 #
DE84-011783 ..... 22 p3605 N84-32839 #
DE84-011786 ..... 21 p3371 N84-31392 #
DE84-011788 ..... 21 p3522 N84-32309 #
DE84-011790 ..... 22 p3626 N84-32974 #
DE84-011805 ..... 21 p3413 N84-31645 #
DE84-011810 ..... 20 p3311 N84-31028 #
DE84-011823 ..... 20 p3166 N84-30106 #
DE84-011824 ..... 20 p3298 N84-30944 #
DE84-011827 ..... 20 p3170 N84-30131 #
DE84-011832 ..... 21 p3448 N84-31878 #
DE84-011835 ..... 21 p3448 N84-31876 #
DE84-011848 ..... 21 p3436 N84-31803 #
DE84-011854 ..... 21 p3495 N84-32153 #
DE84-011870 ..... 20 p3158 N84-30058 #
DE84-011871 ..... 21 p3494 N84-32142 #
DE84-011874 ..... 20 p3150 N84-30004 #
DE84-011888 ..... 21 p3505 N84-32211 #
DE84-011895 ..... 21 p3448 N84-31874 #
DE84-011899 ..... 20 p3200 N84-30323 #
DE84-011901 ..... 20 p3267 N84-30730 #
DE84-011902 ..... 21 p3371 N84-31389 #
DE84-011905 ..... 21 p3406 N84-31607 #
DE84-011915 ..... 21 p3494 N84-32145 #
DE84-012030 ..... 20 p3155 N84-30036 #
DE84-012032 ..... 20 p3175 N84-30162 #
DE84-012033 ..... 20 p3156 N84-30045 #
DE84-012035 ..... 21 p3360 N84-31311 #
DE84-012039 ..... 21 p3519 N84-32292 #
DE84-012050 ..... 20 p3310 N84-31024 #
DE84-012052 ..... 20 p3236 N84-30542 #
DE84-012055 ..... 21 p3361 N84-31322 #
DE84-012072 ..... 20 p3293 N84-30907 #
DE84-012074 ..... 21 p3392 N84-31527 #
DE84-012079 ..... 21 p3448 N84-31879 #
DE84-012092 ..... 20 p3277 N84-30803 #
DE84-012094 ..... 21 p3434 N84-31790 #
DE84-012098 ..... 22 p3605 N84-32840 #
DE84-012101 ..... 21 p3395 N84-31544 #
DE84-012104 ..... 20 p3293 N84-30906 #
DE84-012105 ..... 21 p3505 N84-32210 #
DE84-012110 ..... 22 p3588 N84-32729 #
DE84-012111 ..... 20 p3158 N84-30053 #
DE84-012112 ..... 22 p3589 N84-32730 #
DE84-012114 ..... 21 p3431 N84-31772 #
DE84-012115 ..... 20 p3267 N84-30728 #
DE84-012118 ..... 20 p3179 N84-30193 #
DE84-012124 ..... 21 p3360 N84-31312 #
DE84-012127 ..... 20 p3237 N84-30548 #
DE84-012131 ..... 20 p3273 N84-30778 #
DE84-012136 ..... 20 p3158 N84-30055 #
DE84-012165 ..... 20 p3311 N84-31029 #
DE84-012188 ..... 21 p3444 N84-31853 #
DE84-012189 ..... 20 p3241 N84-30579 #
DE84-012190 ..... 21 p3431 N84-31769 #

DE84-012208 ..... 21 p3434 N84-31788 #
DE84-012214 ..... 20 p3248 N84-30613 #
DE84-012215 ..... 21 p3448 N84-31877 #
DE84-012216 ..... 20 p3248 N84-30612 #
DE84-012230 ..... 20 p3275 N84-30789 #
DE84-012231 ..... 20 p3204 N84-30350 #
DE84-012233 ..... 21 p3519 N84-32293 #
DE84-012234 ..... 22 p3599 N84-32796 #
DE84-012235 ..... 20 p3308 N84-30997 #
DE84-012239 ..... 21 p3435 N84-31792 #
DE84-012240 ..... 22 p3548 N84-32460 #
DE84-012242 ..... 20 p3194 N84-30287 #
DE84-012244 ..... 21 p3466 N84-31975 #
DE84-012246 ..... 21 p3445 N84-31857 #
DE84-012248 ..... 21 p3393 N84-31535 #
DE84-012253 ..... 21 p3361 N84-31325 #
DE84-012256 ..... 20 p3243 N84-30586 #
DE84-012257 ..... 22 p3549 N84-32464 #
DE84-012258 ..... 21 p3402 N84-31584 #
DE84-012259 ..... 22 p3659 N84-33192 #
DE84-012265 ..... 21 p3401 N84-31575 #
DE84-012266 ..... 21 p3495 N84-32146 #
DE84-012267 ..... 20 p3166 N84-30104 #
DE84-012275 ..... 22 p3619 N84-32931 #
DE84-012281 ..... 21 p3499 N84-32175 #
DE84-012292 ..... 21 p3403 N84-31587 #
DE84-012308 ..... 21 p3360 N84-31313 #
DE84-012315 ..... 10 p1531 N84-20027 #
DE84-012316 ..... 21 p3410 N84-31626 #
DE84-012329 ..... 20 p3307 N84-31006 #
DE84-012336 ..... 20 p3157 N84-30052 #
DE84-012340 ..... 20 p3181 N84-30212 #
DE84-012344 ..... 21 p3372 N84-31395 #
DE84-012346 ..... 22 p3660 N84-33199 #
DE84-012351 ..... 22 p3556 N84-32518 #
DE84-012352 ..... 21 p3358 N84-31297 #
DE84-012369 ..... 20 p3242 N84-30581 #
DE84-012371 ..... 21 p3395 N84-31547 #
DE84-012372 ..... 21 p3388 N84-31500 #
DE84-012373 ..... 21 p3357 N84-31295 #
DE84-012374 ..... 20 p3267 N84-30732 #
DE84-012379 ..... 20 p3198 N84-30314 #
DE84-012386 ..... 21 p3367 N84-31363 #
DE84-012389 ..... 21 p3495 N84-32147 #
DE84-012391 ..... 20 p3306 N84-31000 #
DE84-012392 ..... 21 p3501 N84-32190 #
DE84-012395 ..... 21 p3367 N84-31361 #
DE84-012396 ..... 20 p3306 N84-31002 #
DE84-012404 ..... 21 p3444 N84-31852 #
DE84-012408 ..... 21 p3406 N84-31606 #
DE84-012409 ..... 21 p3431 N84-31770 #
DE84-012410 ..... 20 p3186 N84-30246 #
DE84-012412 ..... 21 p3462 N84-31952 #
DE84-012413 ..... 20 p3297 N84-30932 #
DE84-012415 ..... 21 p3497 N84-32161 #
DE84-012417 ..... 21 p3448 N84-31875 #
DE84-012418 ..... 20 p3305 N84-30995 #
DE84-012419 ..... 20 p3195 N84-30290 #
DE84-012421 ..... 22 p3605 N84-32838 #
DE84-012435 ..... 22 p3679 N84-33321* #
DE84-012438 ..... 22 p3649 N84-33136 #
DE84-012442 ..... 20 p3320 N84-31080 #
DE84-012444 ..... 21 p3402 N84-31581 #
DE84-012453 ..... 21 p3523 N84-32322 #
DE84-012455 ..... 21 p3360 N84-31317 #
DE84-012461 ..... 21 p3360 N84-31315 #
DE84-012466 ..... 20 p3195 N84-30291 #
DE84-012471 ..... 21 p3501 N84-32186 #
DE84-012474 ..... 21 p3360 N84-31314 #
DE84-012475 ..... 20 p3150 N84-30005 #
DE84-012483 ..... 21 p3372 N84-31396 #
DE84-012485 ..... 20 p3307 N84-31004 #
DE84-012487 ..... 20 p3307 N84-31005 #
DE84-012498 ..... 20 p3311 N84-31030 #
DE84-012505 ..... 21 p3432 N84-31773 #
DE84-012521 ..... 21 p3494 N84-32140 #
DE84-012526 ..... 20 p3274 N84-30787 #
DE84-012527 ..... 20 p3307 N84-31003 #
DE84-012533 ..... 20 p3306 N84-31001 #
DE84-012536 ..... 21 p3414 N84-31649 #
DE84-012542 ..... 21 p3361 N84-31321 #
DE84-012544 ..... 21 p3423 N84-31714 #
DE84-012545 ..... 21 p3431 N84-31771 #
DE84-012546 ..... 19 p3055 N84-29384 #
DE84-012547 ..... 20 p3229 N84-30519 #
DE84-012548 ..... 21 p3445 N84-31856 #
DE84-012553 ..... 21 p3401 N84-31573 #
DE84-012576 ..... 21 p3516 N84-32269 #
DE84-012580 ..... 21 p3402 N84-31583 #
DE84-012581 ..... 21 p3402 N84-31582 #
DE84-012582 ..... 22 p3646 N84-33122 #
DE84-012583 ..... 20 p3321 N84-31081 #
DE84-012592 ..... 21 p3393 N84-31532 #
DE84-012593 ..... 21 p3410 N84-31628 #
DE84-012594 ..... 21 p3410 N84-31627 #
DE84-012599 ..... 20 p3278 N84-30807 #
DE84-012602 ..... 21 p3393 N84-31534 #
DE84-012605 ..... 21 p3372 N84-31394 #
DE84-012607 ..... 22 p3561 N84-32548 #
DE84-012623 ..... 22 p3562 N84-32557 #
DE84-012625 ..... 21 p3444 N84-31855 #
DE84-012626 ..... 22 p3649 N84-33135 #
DE84-012627 ..... 21 p3423 N84-31710 #
DE84-012634 ..... 22 p3664 N84-33230 #
DE84-012639 ..... 22 p3641 N84-33086 #
DE84-012640 ..... 21 p3498 N84-32167 #
DE84-012642 ..... 21 p3519 N84-32294 #
DE84-012648 ..... 21 p3519 N84-32295 #
DE84-012649 ..... 22 p3675 N84-33300 #
DE84-012654 ..... 21 p3422 N84-31709 #
DE84-012656 ..... 22 p3655 N84-33169 #
DE84-012658 ..... 21 p3432 N84-31776 #
DE84-012659 ..... 21 p3410 N84-31632 #
DE84-012660 ..... 21 p3494 N84-32139 #
DE84-012664 ..... 05 p0730 N84-14795 #
DE84-012676 ..... 22 p3601 N84-32815 #
DE84-012681 ..... 20 p3279 N84-30814 #
DE84-012682 ..... 21 p3432 N84-31775 #
DE84-012689 ..... 21 p3371 N84-31393 #
DE84-012693 ..... 21 p3500 N84-32185 #
DE84-012752 ..... 21 p3368 N84-31365 #
DE84-012754 ..... 21 p3374 N84-31413 #
DE84-012772 ..... 21 p3494 N84-32141 #
DE84-012789 ..... 21 p3519 N84-32291 #
DE84-012792 ..... 22 p3548 N84-32462 #
DE84-012811 ..... 20 p3151 N84-30007 #
DE84-012812 ..... 21 p3395 N84-31542 #
DE84-012813 ..... 21 p3415 N84-31658 #
DE84-012824 ..... 21 p3402 N84-31585 #
DE84-012828 ..... 21 p3466 N84-31979 #
DE84-012833 ..... 20 p3158 N84-30054 #
DE84-012834 ..... 21 p3360 N84-31316 #
DE84-012835 ..... 21 p3505 N84-32212 #
DE84-012837 ..... 21 p3423 N84-31712 #
DE84-012855 ..... 21 p3466 N84-31976 #
DE84-012861 ..... 22 p3646 N84-33121 #
DE84-012863 ..... 21 p3370 N84-31386 #
DE84-012864 ..... 21 p3371 N84-31387 #
DE84-012866 ..... 22 p3653 N84-33154 #
DE84-012867 ..... 21 p3359 N84-31309 #
DE84-012870 ..... 20 p3297 N84-30934 #
DE84-012876 ..... 20 p3167 N84-30112 #
DE84-012877 ..... 21 p3368 N84-31364 #
DE84-012878 ..... 21 p3395 N84-31543 #
DE84-012889 ..... 21 p3499 N84-32176 #
DE84-012897 ..... 21 p3345 N84-31223 #
DE84-012899 ..... 22 p3595 N84-32764 #
DE84-012903 ..... 22 p3562 N84-32558 #
DE84-012908 ..... 22 p3547 N84-32456 #
DE84-012910 ..... 21 p3496 N84-32159 #
DE84-012911 ..... 21 p3368 N84-31367 #
DE84-012920 ..... 20 p3283 N84-30842 #
DE84-012932 ..... 22 p3589 N84-32733 #
DE84-012940 ..... 22 p3659 N84-33198 #
DE84-012943 ..... 22 p3618 N84-32928 #
DE84-012954 ..... 22 p3578 N84-32663 #
DE84-012959 ..... 22 p3589 N84-32735 #
DE84-012969 ..... 22 p3549 N84-32468 #
DE84-012971 ..... 22 p3654 N84-33161 #
DE84-012972 ..... 21 p3368 N84-31366 #
DE84-012975 ..... 22 p3562 N84-32556 #
DE84-012976 ..... 22 p3556 N84-32516 #
DE84-012988 ..... 21 p3503 N84-32200 #
DE84-012989 ..... 21 p3496 N84-32158 #
DE84-012993 ..... 20 p3306 N84-30998 #
DE84-013054 ..... 21 p3501 N84-32192 #
DE84-013057 ..... 22 p3612 N84-32883 #
DE84-013071 ..... 22 p3642 N84-33091 #
DE84-013074 ..... 21 p3371 N84-31391 #
DE84-013075 ..... 22 p3600 N84-32801 #
DE84-013076 ..... 22 p3626 N84-32975 #
DE84-013083 ..... 22 p3681 N84-33334 #
DE84-013086 ..... 21 p3362 N84-31328 #
DE84-013089 ..... 22 p3588 N84-32728 #
DE84-013094 ..... 20 p3267 N84-30731 #
DE84-013103 ..... 21 p3502 N84-32193 #
DE84-013109 ..... 20 p3292 N84-30897 #
DE84-013111 ..... 22 p3644 N84-33103 #
DE84-013118 ..... 22 p3578 N84-32664 #
DE84-013122 ..... 22 p3667 N84-33246 #
DE84-013124 ..... 22 p3665 N84-33236 #
DE84-013129 ..... 21 p3403 N84-31586 #
DE84-013130 ..... 21 p3519 N84-32296 #
DE84-013132 ..... 22 p3594 N84-32763 #
DE84-013142 ..... 22 p3654 N84-33162 #
DE84-013147 ..... 21 p3423 N84-31715 #
DE84-013189 ..... 20 p3274 N84-30786 #
DE84-013192 ..... 22 p3589 N84-32736 #
DE84-013193 ..... 21 p3394 N84-31540 #
DE84-013210 ..... 22 p3643 N84-33099 #
DE84-013211 ..... 22 p3601 N84-32814 #
DE84-013216 ..... 22 p3548 N84-32481 #

DE84-013219 ..... 22 p3595 N84-32768 #
DE84-013226 ..... 22 p3547 N84-32457 #
DE84-013235 ..... 22 p3589 N84-32731 #
DE84-013240 ..... 23 p3823 N84-34242 #
DE84-013242 ..... 22 p3665 N84-33235 #
DE84-013256 ..... 22 p3642 N84-33090 #
DE84-013262 ..... 22 p3655 N84-33166 #
DE84-013267 ..... 22 p3626 N84-32976 #
DE84-013269 ..... 22 p3596 N84-32772 #
DE84-013276 ..... 22 p3667 N84-33248 #
DE84-013282 ..... 22 p3650 N84-33140 #
DE84-013285 ..... 22 p3618 N84-32925 #
DE84-013314 ..... 23 p3829 N84-34285 #
DE84-013316 ..... 21 p3502 N84-32194 #
DE84-013321 ..... 20 p3243 N84-30587 #
DE84-013345 ..... 22 p3605 N84-32842 #
DE84-013348 ..... 23 p3828 N84-34284 #
DE84-013360 ..... 21 p3502 N84-32195 #
DE84-013379 ..... 22 p3659 N84-33197 #
DE84-013388 ..... 22 p3660 N84-33203 #
DE84-013390 ..... 22 p3667 N84-33247 #
DE84-013391 ..... 22 p3595 N84-32767 #
DE84-013397 ..... 22 p3629 N84-32995 #
DE84-013417 ..... 22 p3605 N84-32843 #
DE84-013423 ..... 21 p3505 N84-32214 #
DE84-013427 ..... 22 p3587 N84-32720 #
DE84-013428 ..... 21 p3394 N84-31539 #
DE84-013436 ..... 22 p3587 N84-32722 #
DE84-013440 ..... 23 p3831 N84-34299 #
DE84-013452 ..... 22 p3587 N84-32721 #
DE84-013454 ..... 21 p3449 N84-31882 #
DE84-013467 ..... 21 p3368 N84-31368 #
DE84-013470 ..... 23 p3830 N84-34296 #
DE84-013477 ..... 22 p3545 N84-32441 #
DE84-013493 ..... 21 p3507 N84-32219 #
DE84-013499 ..... 22 p3660 N84-33200 #
DE84-013513 ..... 22 p3654 N84-33165 #
DE84-013518 ..... 22 p3665 N84-33234 #
DE84-013539 ..... 22 p3646 N84-33123 #
DE84-013571 ..... 22 p3532 N84-32363 #
DE84-013576 ..... 22 p3595 N84-32765 #
DE84-013580 ..... 21 p3410 N84-31631 #
DE84-013590 ..... 22 p3677 N84-33308 #
DE84-013600 ..... 22 p3659 N84-33193 #
DE84-013602 ..... 22 p3659 N84-33195 #
DE84-013608 ..... 22 p3666 N84-33239 #
DE84-013620 ..... 21 p3435 N84-31794 #
DE84-013627 ..... 22 p3660 N84-33204 #
DE84-013647 ..... 22 p3655 N84-33170 #
DE84-013649 ..... 22 p3641 N84-33087 #
DE84-013658 ..... 23 p3820 N84-34227 #
DE84-013662 ..... 21 p3448 N84-31880 #
DE84-013671 ..... 21 p3432 N84-31774 #
DE84-013672 ..... 22 p3614 N84-32901 #
DE84-013673 ..... 22 p3624 N84-32962 #
DE84-013678 ..... 23 p3744 N84-33734 #
DE84-013683 ..... 21 p3449 N84-31881 #
DE84-013694 ..... 22 p3564 N84-32574 #
DE84-013695 ..... 22 p3564 N84-32573 #
DE84-013696 ..... 22 p3564 N84-32571 #
DE84-013700 ..... 22 p3653 N84-33160 #
DE84-013723 ..... 23 p3798 N84-34085 #
DE84-013729 ..... 22 p3607 N84-32852 #
DE84-013767 ..... 22 p3578 N84-32661 #
DE84-013790 ..... 22 p3665 N84-33237 #
DE84-013793 ..... 22 p3588 N84-32727 #
DE84-013797 ..... 22 p3549 N84-32466 #
DE84-013807 ..... 22 p3560 N84-32547 #
DE84-013812 ..... 22 p3629 N84-32994 #
DE84-013829 ..... 22 p3681 N84-33335 #
DE84-013837 ..... 22 p3660 N84-33201 #
DE84-013846 ..... 22 p3665 N84-33238 #
DE84-013854 ..... 23 p3791 N84-34042 #
DE84-013858 ..... 23 p3828 N84-34283 #
DE84-013860 ..... 23 p3823 N84-34241 #
DE84-013861 ..... 22 p3659 N84-33196 #
DE84-013862 ..... 23 p3725 N84-33604 #
DE84-013871 ..... 22 p3646 N84-33120 #
DE84-013877 ..... 22 p3619 N84-32930 #
DE84-013878 ..... 23 p3812 N84-34170 #
DE84-013879 ..... 22 p3653 N84-33159 #
DE84-013882 ..... 22 p3588 N84-32726 #
DE84-013889 ..... 23 p3818 N84-34210 #
DE84-013890 ..... 22 p3602 N84-32818 #
DE84-013891 ..... 23 p3818 N84-34211 #
DE84-013894 ..... 22 p3629 N84-32993 #
DE84-013914 ..... 22 p3680 N84-33328 #
DE84-013916 ..... 22 p3541 N84-32420 #
DE84-013919 ..... 22 p3564 N84-32572 #
DE84-013920 ..... 22 p3618 N84-32927 #
DE84-013935 ..... 23 p3719 N84-33578 #
DE84-013941 ..... 22 p3555 N84-32513 #
DE84-013942 ..... 22 p3549 N84-32465 #
DE84-013948 ..... 22 p3594 N84-32762 #
DE84-014004 ..... 23 p3755 N84-33802 #
DE84-014011 ..... 23 p3839 N84-34353 #
DE84-014026 ..... 22 p3602 N84-32817 #
DE84-014027 ..... 23 p3839 N84-34352 #
DE84-014032 ..... 22 p3677 N84-33311 #
DE84-014034 ..... 23 p3799 N84-34086* #
DE84-014064 ..... 22 p3578 N84-32662 #
DE84-014097 ..... 22 p3605 N84-32841 #
DE84-014121 ..... 23 p3828 N84-34282 #
DE84-014125 ..... 22 p3664 N84-33231 #
DE84-014126 ..... 22 p3659 N84-33194 #
DE84-014129 ..... 22 p3638 N84-33066 #
DE84-014136 ..... 22 p3680 N84-33327 #
DE84-014137 ..... 22 p3595 N84-32769 #
DE84-014141 ..... 22 p3588 N84-32725 #
DE84-014147 ..... 22 p3612 N84-32886 #
DE84-014160 ..... 23 p3719 N84-33573 #
DE84-014227 ..... 23 p3744 N84-33732 #
DE84-014230 ..... 22 p3590 N84-32738 #
DE84-014231 ..... 22 p3590 N84-32740 #
DE84-014232 ..... 23 p3755 N84-33803 #
DE84-014239 ..... 23 p3751 N84-33781 #
DE84-014242 ..... 22 p3654 N84-33163 #
DE84-014245 ..... 23 p3719 N84-33574 #
DE84-014246 ..... 23 p3752 N84-33783 #
DE84-014247 ..... 23 p3751 N84-33782 #
DE84-014249 ..... 23 p3757 N84-33815 #
DE84-014250 ..... 23 p3755 N84-33804 #
DE84-014267 ..... 23 p3720 N84-33581 #
DE84-014269 ..... 23 p3718 N84-33572 #
DE84-014288 ..... 22 p3557 N84-32522 #
DE84-014310 ..... 23 p3743 N84-33726 #
DE84-014314 ..... 23 p3725 N84-33607 #
DE84-014315 ..... 23 p3725 N84-33605 #
DE84-014317 ..... 23 p3719 N84-33575 #
DE84-014320 ..... 22 p3606 N84-32846 #
DE84-014322 ..... 23 p3720 N84-33582 #
DE84-014324 ..... 23 p3803 N84-34116 #
DE84-014327 ..... 22 p3660 N84-33202 #
DE84-014328 ..... 23 p3817 N84-34202 #
DE84-014330 ..... 22 p3589 N84-32732 #
DE84-014339 ..... 23 p3755 N84-33801 #
DE84-014358 ..... 24 p3881 N84-34586 #
DE84-014359 ..... 23 p3823 N84-34244 #
DE84-014376 ..... 23 p3720 N84-33580 #
DE84-014415 ..... 23 p3829 N84-34287 #
DE84-014417 ..... 22 p3641 N84-33089 #
DE84-014453 ..... 22 p3612 N84-32885 #
DE84-014498 ..... 24 p3899 N84-34690 #
DE84-014499 ..... 23 p3725 N84-33606 #
DE84-014500 ..... 22 p3602 N84-32819 #
DE84-014502 ..... 23 p3761 N84-33841 #
DE84-014505 ..... 23 p3823 N84-34243 #
DE84-014506 ..... 22 p3561 N84-32549 #
DE84-014508 ..... 22 p3590 N84-32739 #
DE84-014509 ..... 23 p3715 N84-33551 #
DE84-014510 ..... 22 p3590 N84-32737 #
DE84-014515 ..... 23 p3831 N84-34298 #
DE84-014528 ..... 23 p3751 N84-33780 #
DE84-014579 ..... 23 p3719 N84-33576 #
DE84-014598 ..... 23 p3744 N84-33733* #
DE84-014604 ..... 22 p3557 N84-32521 #
DE84-014605 ..... 22 p3556 N84-32520 #
DE84-014614 ..... 23 p3743 N84-33725* #
DE84-014656 ..... 22 p3556 N84-32517 #
DE84-014658 ..... 22 p3545 N84-32442 #
DE84-014659 ..... 23 p3743 N84-33728 #
DE84-014660 ..... 23 p3727 N84-33617 #
DE84-014662 ..... 23 p3743 N84-33729 #
DE84-014664 ..... 23 p3744 N84-33731 #
DE84-014665 ..... 23 p3743 N84-33727 #
DE84-014666 ..... 23 p3743 N84-33730 #
DE84-014670 ..... 23 p3719 N84-33577 #
DE84-014673 ..... 22 p3557 N84-32523 #
DE84-014679 ..... 23 p3831 N84-34300 #
DE84-014684 ..... 23 p3823 N84-34245 #
DE84-014749 ..... 23 p3791 N84-34043 #
DE84-014791 ..... 23 p3719 N84-33579 #
DE84-014802 ..... 23 p3799 N84-34087 #
DE84-014830 ..... 22 p3602 N84-32816 #
DE84-014837 ..... 23 p3691 N84-33392 #
DE84-014843 ..... 23 p3757 N84-33814 #
DE84-014844 ..... 23 p3761 N84-33840 #
DE84-014848 ..... 23 p3715 N84-33549 #
DE84-014851 ..... 22 p3666 N84-33242 #
DE84-014859 ..... 23 p3727 N84-33616 #
DE84-014863 ..... 23 p3784 N84-33999 #
DE84-014902 ..... 22 p3560 N84-32546 #
DE84-014904 ..... 22 p3556 N84-32519 #
DE84-014906 ..... 22 p3666 N84-33241 #
DE84-014910 ..... 23 p3784 N84-34000 #
DE84-014930 ..... 22 p3666 N84-33240 #
DE84-014963 ..... 23 p3786 N84-34013* #
DE84-015063 ..... 23 p3715 N84-33547 #
DE84-015076 ..... 23 p3829 N84-34286 #
DE84-015083 ..... 23 p3751 N84-33779 #
DE84-015087 ..... 23 p3752 N84-33784 #
DE84-016306 ..... 06 p0822 N84-15359 #

DE84-017759 ..... 04 p0515 N84-13383 #
DE84-020802 ..... 20 p3163 N84-30087 #
DE84-023584 ..... 22 p3642 N84-33092 #
DE84-700988 ..... 24 p3912 N84-34777 #
DE84-701187 ..... 24 p3962 N84-35092 #
DE84-701190 ..... 24 p3967 N84-35122 #
DE84-701191 ..... 24 p3881 N84-34587 #
DE84-701192 ..... 24 p3967 N84-35123 #
DE84-701196 ..... 24 p3912 N84-34776 #
DE84-701200 ..... 24 p3960 N84-35070 #
DE84-701201 ..... 24 p3964 N84-35102 #
DE84-701207 ..... 24 p3884 N84-34611 #
DE84-701221 ..... 24 p3966 N84-35111 #
DE84-701276 ..... 24 p3899 N84-34691 #
DE84-701733 ..... 24 p3913 N84-34778 #
DE84-701747 ..... 24 p3896 N84-34672 #
DE84-751157 ..... 24 p3909 N84-34761 #
DE84-780403 ..... 24 p3885 N84-34614 #
DE84-780404 ..... 24 p3885 N84-34613 #
DE84-900198 ..... 07 p1027 N84-16658 #
DE84-900248 ..... 16 p2519 N84-26172 #
DE84-900411 ..... 07 p1027 N84-16659 #
DE84-900416 ..... 08 p1181 N84-17691 #
DE84-900451 ..... 11 p1746 N84-21396 #
DE84-900635 ..... 20 p3181 N84-30208 #
DE84-900854 ..... 15 p2359 N84-25159 #
DE84-900907 ..... 20 p3318 N84-31065 #
DE84-900996 ..... 21 p3444 N84-31854 #
DE84-901066 ..... 21 p3375 N84-31416 #
DE84-901142 ..... 21 p3402 N84-31580 #
DE84-901150 ..... 20 p3313 N84-31040 #
DE84-901243 ..... 21 p3394 N84-31541 #

DFVLR-FB-81-23 ..... 16 p2482 N84-25914 #
DFVLR-FB-81-30 ..... 16 p2539 N84-26299 #
DFVLR-FB-81-34 ..... 16 p2482 N84-25915 #
DFVLR-FB-81-39 ..... 16 p2496 N84-26014 #
DFVLR-FB-82-01 ..... 16 p2557 N84-26403 #
DFVLR-FB-82-06 ..... 16 p2440 N84-25652 #
DFVLR-FB-82-08 ..... 16 p2456 N84-25749 #
DFVLR-FB-82-10 ..... 16 p2482 N84-25916 #
DFVLR-FB-82-13 ..... 16 p2539 N84-26300 #
DFVLR-FB-82-14 ..... 13 p1996 N84-22955 #
DFVLR-FB-82-19 ..... 13 p1935 N84-22588 #
DFVLR-FB-82-21 ..... 16 p2497 N84-26022 #
DFVLR-FB-82-24 ..... 03 p0362 N84-12356 #
DFVLR-FB-82-25 ..... 16 p2440 N84-25654 #
DFVLR-FB-82-26 ..... 16 p2487 N84-25953 #
DFVLR-FB-82-27 ..... 13 p2010 N84-23034 #
DFVLR-FB-82-30 ..... 16 p2509 N84-26104 #
DFVLR-FB-82-31 ..... 16 p2509 N84-26105 #
DFVLR-FB-83-01 ..... 11 p1601 N84-20489* #
DFVLR-FB-83-03 ..... 03 p0328 N84-12141 #
DFVLR-FB-83-04 ..... 02 p0185 N84-11202 #
DFVLR-FB-83-06 ..... 05 p0687 N84-14514 #
DFVLR-FB-83-06 ..... 19 p3030 N84-29221 #
DFVLR-FB-83-12 ..... 02 p0211 N84-11378 #
DFVLR-FB-83-13 ..... 02 p0221 N84-11450 #
DFVLR-FB-83-16 ..... 02 p0211 N84-11379 #
DFVLR-FB-83-17 ..... 10 p1579 N84-20347 #
DFVLR-FB-83-18 ..... 10 p1483 N84-19696 #
DFVLR-FB-83-19 ..... 07 p0949 N84-16159 #
DFVLR-FB-83-20 ..... 07 p1075 N84-16989 #
DFVLR-FB-83-21 ..... 07 p1011 N84-16558 #
DFVLR-FB-83-22 ..... 03 p0363 N84-12363 #
DFVLR-FB-83-23 ..... 06 p0882 N84-15740 #
DFVLR-FB-83-24 ..... 08 p1108 N84-17202 #
DFVLR-FB-83-25 ..... 06 p0792 N84-15163 #
DFVLR-FB-83-26 ..... 09 p1334 N84-18711 #
DFVLR-FB-83-27 ..... 10 p1526 N84-20000 #
DFVLR-FB-83-27 ..... 16 p2486 N84-25948 #
DFVLR-FB-83-28 ..... 10 p1423 N84-19303 #
DFVLR-FB-83-29 ..... 06 p0831 N84-15409 #
DFVLR-FB-83-30 ..... 06 p0906 N84-15879 #
DFVLR-FB-83-31 ..... 10 p1541 N84-20097 #
DFVLR-FB-83-32 ..... 10 p1426 N84-19329 #
DFVLR-FB-83-33 ..... 12 p1766 N84-21519 #
DFVLR-FB-83-34 ..... 12 p1901 N84-22378 #
DFVLR-FB-83-35 ..... 12 p1909 N84-22434 #
DFVLR-FB-83-36 ..... 15 p2259 N84-24570 #
DFVLR-FB-83-39 ..... 15 p2262 N84-24590 #
DFVLR-FB-83-40 ..... 15 p2259 N84-24571 #
DFVLR-FB-83-41 ..... 15 p2339 N84-25039 #
DFVLR-FB-84-01 ..... 15 p2396 N84-25375 #
DFVLR-FB-84-02 ..... 15 p2280 N84-24693 #
DFVLR-FB-84-03-PT-1 ..... 15 p2362 N84-25170 #
DFVLR-FB-84-04 ..... 16 p2493 N84-25992 #
DFVLR-FB-84-05 ..... 15 p2280 N84-24694 #
DFVLR-FB-84-06 ..... 16 p2449 N84-25708 #
DFVLR-FB-84-07 ..... 19 p2960 N84-28758 #
DFVLR-FB-84-08 ..... 16 p2449 N84-25709 #
DFVLR-FB-84-09 ..... 18 p2837 N84-28010 #
DFVLR-FB-84-10 ..... 18 p2877 N84-28265 #
DFVLR-FB-84-11 ..... 17 p2610 N84-26706 #
DFVLR-FB-84-13 ..... 18 p2789 N84-27701 #
DFVLR-FB-84-14 ..... 23 p3747 N84-33756 #

DFVLR-FB-84-15 ..... 20 p3128 N84-29862 #
DFVLR-FB-84-16 ..... 20 p3187 N84-30252 #
DFVLR-FB-84-17 ..... 19 p3010 N84-29080 #
DFVLR-FB-84-18 ..... 20 p3243 N84-30589 #

DFVLR-FM-83-38 ..... 15 p2255 N84-24541 #

DFVLR-IB-232-82-C-09 ..... 12 p1782 N84-21626 #

DFVLR-MANUSKRIPT-8A-PT-1 ..... 03 p0343 N84-12224 #

DFVLR-MITT-81-19 ..... 10 p1423 N84-19307 #
DFVLR-MITT-81-23 ..... 16 p2544 N84-26333 #
DFVLR-MITT-82-09 ..... 03 p0412 N84-12695 #
DFVLR-MITT-82-13 ..... 03 p0362 N84-12357 #
DFVLR-MITT-82-14 ..... 16 p2440 N84-25653 #
DFVLR-MITT-82-15 ..... 16 p2496 N84-26015 #
DFVLR-MITT-82-17 ..... 16 p2554 N84-26385 #
DFVLR-MITT-82-18 ..... 16 p2450 N84-25715 #
DFVLR-MITT-83-02 ..... 03 p0330 N84-12153 #
DFVLR-MITT-83-04 ..... 03 p0376 N84-12449 #
DFVLR-MITT-83-05 ..... 07 p0944 N84-16120 #
DFVLR-MITT-83-06 ..... 03 p0421 N84-12756 #
DFVLR-MITT-83-07 ..... 07 p0948 N84-16154 #
DFVLR-MITT-83-08 ..... 07 p0949 N84-16155 #
DFVLR-MITT-83-08 ..... 19 p2959 N84-28757 #
DFVLR-MITT-83-09 ..... 08 p1102 N84-17169 #
DFVLR-MITT-83-10 ..... 08 p1096 N84-17123 #
DFVLR-MITT-83-11 ..... 10 p1483 N84-19695 #
DFVLR-MITT-83-12 ..... 08 p1191 N84-17763 #
DFVLR-MITT-83-13 ..... 07 p1056 N84-16839 #
DFVLR-MITT-83-14 ..... 08 p1101 N84-17160 #
DFVLR-MITT-83-15 ..... 07 p0963 N84-16240 #
DFVLR-MITT-83-15 ..... 19 p2980 N84-28889 #
DFVLR-MITT-83-16 ..... 10 p1452 N84-19480 #
DFVLR-MITT-83-17 ..... 10 p1495 N84-19775 #
DFVLR-MITT-83-18 ..... 12 p1819 N84-21857 #
DFVLR-MITT-83-19 ..... 17 p2743 N84-27418 #
DFVLR-MITT-84-01 ..... 17 p2585 N84-26565 #
DFVLR-MITT-84-03 ..... 18 p2791 N84-27716 #
DFVLR-MITT-84-04 ..... 18 p2796 N84-27742 #

DG-501-79-SUPPL-2 ..... 19 p2980 N84-28886 #
DG-501-84-SUPPL-2 ..... 19 p2980 N84-28886 #

DGLR-81-057 ..... 06 p0786 N84-15143* #
DGLR-82-092 ..... 05 p0632 N84-14156

DGT-23.190A ..... 16 p2474 N84-25856 #

DHEW/DF-83/004A ..... 01 p0115 N84-10748 #

DIA-DST-2700Z-002-84 ..... 20 p3193 N84-30275 #
DIA-DST-2700Z-006-83 ..... 05 p0759 N84-14978 #
DIA-DST-2700Z-007-83 ..... 11 p1683 N84-20852 #
DIA-DST-2700Z-008-83 ..... 11 p1683 N84-20851 #

DISC/83-6 ..... 11 p1647 N84-20769 #
DISC/83-7 ..... 11 p1647 N84-20768 #

DL/SCI/P399E ..... 12 p1915 N84-22475 #

DLR-MITT-67-17 ..... 24 p3866 N84-34502* #

DM.51/CV/JP/327.83-VOL-1 ..... 08 p1153 N84-17507 #
DM.51/CV/JP/327.83-VOL-2 ..... 08 p1153 N84-17508 #

DME-DM-1 ..... 09 p1290 N84-18421 #
DME-DM-3 ..... 10 p1569 N84-20281 #

DMG-93/83 ..... 24 p3883 N84-34602* #

DMI-GEOPHYS-PAPERS-R-67 ..... 19 p3010 N84-29079 #

DMS-DFR-2098 ..... 21 p3351 N84-31259* #
DMS-DFR-2098 ..... 22 p3541 N84-32415* #

DMS-DR-1459-VOL-2 ..... 21 p3351 N84-31260* #
DMS-DR-2459-VOL-1 ..... 21 p3352 N84-31261* #
DMS-DR-2515 ..... 13 p1938 N84-22603* #
DMS-DR-2517 ..... 24 p3860 N84-34464*

DM55/JPS/JP/321.82 ..... 19 p2982 N84-28898 #

DNA-TR-80-003 ..... 21 p3431 N84-31766 #
DNA-TR-81-50 ..... 01 p0096 N84-10624 #
DNA-TR-81-56 ..... 13 p1986 N84-22894 #
DNA-TR-81-83 ..... 03 p0360 N84-12339 #
DNA-TR-81-87 ..... 01 p0106 N84-10688 #
DNA-TR-81-121 ..... 03 p0388 N84-12533 #
DNA-TR-81-158 ..... 02 p0249 N84-11628 #
DNA-TR-81-170 ..... 01 p0066 N84-10432 #
DNA-TR-81-176 ..... 02 p0249 N84-11630 #
DNA-TR-81-184 ..... 03 p0389 N84-12534 #
DNA-TR-81-237 ..... 11 p1694 N84-21054 #
DNA-TR-81-241 ..... 02 p0249 N84-11632 #

DNA-TR-81-253 ..... 13 p1983 N84-22873 #
DNA-TR-81-254 ..... 12 p1807 N84-21781 #
DNA-TR-81-270 ..... 12 p1910 N84-22441 #
DNA-TR-81-276 ..... 11 p1683 N84-20983 #
DNA-TR-82-07 ..... 01 p0067 N84-10441 #
DNA-TR-82-10 ..... 01 p0106 N84-10689 #
DNA-TR-82-54 ..... 01 p0096 N84-10627 #
DNA-TR-82-104 ..... 09 p1345 N84-18784 #
DNA-TR-82-159 ..... 18 p2811 N84-27847 #
DNA-TR-82-170 ..... 21 p3400 N84-31570 #

DNA-5852F ..... 01 p0124 N84-10804 #
DNA-5940F ..... 01 p0067 N84-10440 #
DNA-6125T ..... 01 p0149 N84-10979 #
DNA-6153F ..... 02 p0295 N84-11937 #
DNA-6188F ..... 02 p0210 N84-11369 #
DNA-6195T ..... 02 p0292 N84-11914 #
DNA-6212F ..... 21 p3353 N84-31268 #
DNA-6503H ..... 01 p0095 N84-10621 #

DO-TH-83-16 ..... 20 p3297 N84-30939 #

DOC-83SRD060 ..... 12 p1899 N84-22366 #
DOC-84SRD026 ..... 17 p2627 N84-26807 #

DOCUMENT-6846 ..... 04 p0574 N84-13780 #

DOD/DR-83-005A ..... 01 p0078 N84-10508 #

DOE-TR-258 ..... 06 p0610 N84-15276 #

DOE/AL-04047/T12 ..... 10 p1487 N84-19721 #

DOE/ARS-7315-20741-83-1 ..... 01 p0090 N84-10587 #

DOE/BC-10114/12 ..... 04 p0545 N84-13587 #
DOE/BC-10257/59 ..... 09 p1316 N84-18601 #
DOE/BC-10321/12 ..... 04 p0507 N84-13324 #
DOE/BC-10343/1 ..... 01 p0091 N84-10594 #

DOE/BETC/IC-83/3 ..... 12 p1803 N84-21754 #

DOE/BETC/RI-83/4 ..... 03 p0406 N84-12656 #
DOE/BETC/RI-83/12 ..... 09 p1325 N84-18659 #

DOE/BP-189 ..... 06 p0882 N84-15738 #
DOE/BP-195 ..... 19 p3059 N84-29409 #
DOE/BP-211 ..... 21 p3448 N84-31878 #
DOE/BP-212-APP ..... 21 p3448 N84-31876 #
DOE/BP-232 ..... 23 p3691 N84-33392 #
DOE/BP-257 ..... 21 p3448 N84-31880 #

DOE/CE-0027/1 ..... 07 p1012 N84-16566 #
DOE/CE-0027/2 ..... 09 p1325 N84-18660 #
DOE/CE-0033/1 ..... 12 p1838 N84-21979 #
DOE/CE-0033/2 ..... 15 p2364 N84-25186 #
DOE/CE-0034/2 ..... 14 p2172 N84-24011 #
DOE/CE-0040 ..... 12 p1917 N84-22489 #
DOE/CE-0043 ..... 12 p1917 N84-22490 #
DOE/CE-0048 ..... 11 p1673 N84-20919 #
DOE/CE-0062 ..... 20 p3236 N84-30541 #
DOE/CE-0072 ..... 20 p3236 N84-30544 #
DOE/CE-15095/T1 ..... 20 p3313 N84-31042 #
DOE/CE-15095/6 ..... 12 p1816 N84-21840 #
DOE/CE-15095/14 ..... 20 p3315 N84-31056 #
DOE/CE-15146/T3 ..... 06 p0822 N84-15359 #
DOE/CE-15151/1-VOL-1-EXEC-SUMM ..... 20 p3313 N84-31038 #
DOE/CE-15151/1-VOL-2 ..... 20 p3313 N84-31039 #
DOE/CE-30719/T2 ..... 20 p3236 N84-30542 #
DOE/CE-40558/T2 ..... 01 p0054 N84-10346 #
DOE/CE-40652/1 ..... 20 p3198 N84-30310 #
DOE/CE-50036/T2 ..... 21 p3374 N84-31412 #
DOE/CE-90033/6 ..... 19 p2995 N84-28978 #

DOE/CH-00016/1 ..... 10 p1532 N84-20033 #
DOE/CH-00178/T20-VOL-1 ..... 20 p3315 N84-31052 #
DOE/CH-00178/T20-VOL-2 ..... 21 p3518 N84-32286 #
DOE/CH-00178/T21 ..... 21 p3434 N84-31788 #
DOE/CH-10122/11 ..... 20 p3274 N84-30781 #
DOE/CH-10122/25 ..... 20 p3235 N84-30538 #

DOE/CS-15022/T1 ..... 15 p2344 N84-25071 #
DOE/CS-15040/T1 ..... 03 p0384 N84-12499 #
DOE/CS-15072/T5 ..... 06 p0874 N84-15687 #
DOE/CS-15074/T4 ..... 20 p3179 N84-30195 #
DOE/CS-30260/1 ..... 03 p0457 N84-13005 #
DOE/CS-30264/T1 ..... 03 p0403 N84-12639 #
DOE/CS-30525/25 ..... 09 p1276 N84-18335 #
DOE/CS-30569/29 ..... 20 p3184 N84-30234 #
DOE/CS-34539/1 ..... 02 p0220 N84-11440 #
DOE/CS-40287/T2 ..... 02 p0190 N84-11237 #
DOE/CS-40294/T1 ..... 07 p0972 N84-16298 #
DOE/CS-40338/3 ..... 06 p0610 N84-15277 #
DOE/CS-40402/16 ..... 03 p0356 N84-12320 #
DOE/CS-40520/T1 ..... 05 p0663 N84-14361 #
DOE/CS-40520/T2 ..... 20 p3170 N84-30133 #

DOE/CS-50021/3 ..... 03 p0358 N84-12327 #
DOE/CS-50101/1 ..... 14 p2249 N84-24511 #
DOE/CS-50184/T1 ..... 02 p0304 N84-11992 #
DOE/CS-50286/4 ..... 10 p1470 N84-19603 #
DOE/CS-51212/1-VOL-1 ..... 02 p0204 N84-11331 #
DOE/CS-51212/1-VOL-2 ..... 02 p0204 N84-11332 #
DOE/CS-51212/1-VOL-3 ..... 18 p2848 N84-28086 #
DOE/CS-54209/13 ..... 18 p2833 N84-27962* #
DOE/CS-54209/14 ..... 18 p2947 N84-28682* #
DOE/CS-54209/16 ..... 23 p3743 N84-33725* #
DOE/CS-54209/17 ..... 23 p3790 N84-34035* #
DOE/CS-54209/19 ..... 23 p3744 N84-33733* #
DOE/CS-54266/3 ..... 04 p0510 N84-13340 #
DOE/CS-60014-3 ..... 10 p1531 N84-20027 #
DOE/CS-66001/2 ..... 12 p1842 N84-22012* #
DOE/CS-66001/3 ..... 15 p2361 N84-25167* #
DOE/CS-66001/4 ..... 18 p2868 N84-28207* #
DOE/CS-66001/7 ..... 23 p3713 N84-33534* #
DOE/CS-83105/2 ..... 14 p2143 N84-23849 #
DOE/CS-83106/T1 ..... 11 p1745 N84-21387 #
DOE/CS-83111/T1 ..... 10 p1530 N84-20021 #
DOE/CS-83114/T1 ..... 11 p1674 N84-20923 #
DOE/CS-83116/T1 ..... 21 p3505 N84-32211 #
DOE/CS-84054/T1 ..... 19 p3025 N84-29184 #
DOE/CS-90215/T1 ..... 12 p1816 N84-21838 #

DOE/DP-40L52-T3 ..... 04 p0542 N84-13570 #
DOE/DP-40L52/T2 ..... 04 p0611 N84-14032 #
DOE/DP-00789/T29 ..... 11 p1666 N84-20868 #
DOE/DP-40092/3 ..... 20 p3195 N84-30290 #
DOE/DP-40092/4 ..... 20 p3305 N84-30995 #
DOE/DP-40124/9 ..... 07 p1053 N84-16817 #
DOE/DP-40124/10 ..... 10 p1501 N84-19807 #
DOE/DP-40124/20 ..... 14 p2230 N84-24375 #
DOE/DP-40124/21 ..... 19 p3030 N84-29218 #
DOE/DP-40124/22 ..... 21 p3501 N84-32188 #
DOE/DP-40124/32 ..... 20 p3306 N84-31001 #
DOE/DP-40124/34 ..... 20 p3307 N84-31005 #
DOE/DP-40124/37 ..... 21 p3501 N84-32190 #
DOE/DP-40124/38 ..... 20 p3306 N84-31000 #
DOE/DP-40124/40 ..... 20 p3301 N84-30960 #
DOE/DP-40128/1 ..... 01 p0148 N84-10973 #
DOE/DP-40134/1 ..... 01 p0088 N84-10572 #
DOE/DP-40135/1 ..... 20 p3307 N84-31004 #
DOE/DP-40137/2 ..... 20 p3194 N84-30286 #
DOE/DP-40142/1 ..... 18 p2847 N84-28076 #
DOE/DP-40152/T5 ..... 20 p3303 N84-30974 #
DOE/DP-40153/2 ..... 18 p2934 N84-28604 #
DOE/DP-40157/1 ..... 12 p1910 N84-22444 #
DOE/DP-40160/2 ..... 18 p2933 N84-28602 #
DOE/DP-40167/2 ..... 18 p2847 N84-28077 #
DOE/DP-40178/1 ..... 19 p3030 N84-29217 #
DOE/DP-40179/1 ..... 19 p3105 N84-29728 #

DOE/EIA-0202(83/2Q)-2 ..... 03 p0405 N84-12648 #

DOE/EL-01830/T18 ..... 21 p3448 N84-31877 #

DOE/EML-409 ..... 16 p2494 N84-26004 #

DOE/EP-0038/1 ..... 06 p0875 N84-15692 #
DOE/EP-0088 ..... 23 p3824 N84-34251 #
DOE/EP-0093 ..... 16 p2511 N84-26117 #
DOE/EP-0096 ..... 04 p0538 N84-13542 #
DOE/EP-0108 ..... 14 p2135 N84-23793 #
DOE/EP-40156/1 ..... 04 p0610 N84-14025 #

DOE/ER-109/71-2 ..... 18 p2942 N84-28657 #
DOE/ER-0045/10 ..... 02 p0196 N84-11273 #
DOE/ER-0143/1 ..... 19 p2983 N84-28905 #
DOE/ER-0145/1 ..... 04 p0550 N84-13624 #
DOE/ER-0148/1 ..... 02 p0296 N84-11940 #
DOE/ER-0157/1 ..... 24 p3950 N84-35010 #
DOE/ER-0158/1 ..... 23 p3727 N84-33614 #
DOE/ER-0161 ..... 04 p0560 N84-13691 #
DOE/ER-0166 ..... 01 p0150 N84-10985 #
DOE/ER-0168 ..... 01 p0074 N84-10486 #
DOE/ER-0169 ..... 03 p0438 N84-12876 #
DOE/ER-0170 ..... 04 p0611 N84-14030 #
DOE/ER-0172 ..... 02 p0191 N84-11239 #
DOE/ER-0173 ..... 04 p0522 N84-13435 #
DOE/ER-0176 ..... 04 p0598 N84-13945 #
DOE/ER-0178 ..... 16 p2528 N84-26228 #
DOE/ER-0186 ..... 11 p1688 N84-21008 #
DOE/ER-0187 ..... 11 p1676 N84-20934 #
DOE/ER-0188 ..... 12 p1861 N84-22124 #
DOE/ER-0190 ..... 19 p3108 N84-29749 #
DOE/ER-0403/43 ..... 03 p0434 N84-12844 #
DOE/ER-00854/40 ..... 01 p0051 N84-10327 #
DOE/ER-01116/36 ..... 03 p0436 N84-12856 #
DOE/ER-01195/477 ..... 04 p0523 N84-13437 #
DOE/ER-01195/478 ..... 04 p0581 N84-13837 #
DOE/ER-01198/1394 ..... 03 p0350 N84-12273 #
DOE/ER-01198/1406 ..... 19 p2996 N84-28981 #
DOE/ER-01198/1407 ..... 20 p3157 N84-30048 #
DOE/ER-01198/1409 ..... 21 p3367 N84-31361 #

DOE/ER-01367/149 ..... 01 p0046 N84-10297 #
DOE/ER-01885/T5 ..... 12 p1802 N84-21747 #
DOE/ER-02009/148 ..... 20 p3293 N84-30903 #
DOE/ER-02167/T1 ..... 03 p0435 N84-12852 #
DOE/ER-02192/T1 ..... 01 p0144 N84-10945 #
DOE/ER-02271/107 ..... 21 p3495 N84-32153 #
DOE/ER-02313/13 ..... 07 p0975 N84-16317 #
DOE/ER-02313/14 ..... 22 p3556 N84-32517 #
DOE/ER-02408/218 ..... 09 p1388 N84-19063 #
DOE/ER-02718/11 ..... 11 p1730 N84-21287 #
DOE/ER-02754/9 ..... 10 p1468 N84-19591 #
DOE/ER-02945/7 ..... 10 p1456 N84-19509 #
DOE/ER-02960/T2 ..... 11 p1634 N84-20686 #
DOE/ER-02978/10 ..... 11 p1745 N84-21388 #
DOE/ER-02978/11 ..... 22 p3655 N84-33170 #
DOE/ER-03054/89 ..... 22 p3582 N84-32556 #
DOE/ER-03077/T1 ..... 20 p3305 N84-30994 #
DOE/ER-03077/198 ..... 09 p1391 N84-19084 #
DOE/ER-03077/201 ..... 11 p1738 N84-21340 #
DOE/ER-03077/202 ..... 08 p1222 N84-17977* #
DOE/ER-03077/203 ..... 08 p1222 N84-17976 #
DOE/ER-03077/204 ..... 09 p1379 N84-19008 #
DOE/ER-03077/205 ..... 12 p1878 N84-22239 #
DOE/ER-03077/206 ..... 11 p1716 N84-21194 #
DOE/ER-03166/34 ..... 21 p3367 N84-31360 #
DOE/ER-03416/T1 ..... 03 p0350 N84-12277 #
DOE/ER-03459/18 ..... 05 p0656 N84-14314 #
DOE/ER-03533/T2 ..... 14 p2223 N84-24338 #
DOE/ER-03992/512 ..... 04 p0593 N84-13913 #
DOE/ER-03992/516 ..... 04 p0620 N84-14093 #
DOE/ER-03992/517 ..... 02 p0291 N84-11911 #
DOE/ER-03992/529 ..... 06 p0826 N84-15383 #
DOE/ER-03992/531 ..... 05 p0747 N84-14909 #
DOE/ER-03992/538 ..... 19 p3102 N84-29707 #
DOE/ER-03992/539 ..... 20 p3282 N84-30839 #
DOE/ER-03992/552 ..... 20 p3297 N84-30933 #
DOE/ER-04027/1 ..... 22 p3545 N84-32441 #
DOE/ER-04222/5 ..... 15 p2288 N84-24729 #
DOE/ER-04341/6 ..... 21 p3360 N84-31315 #
DOE/ER-04433/T1 ..... 07 p0971 N84-16289 #
DOE/ER-04435/10 ..... 22 p3666 N84-33239 #
DOE/ER-04441/T2 ..... 01 p0155 N84-11020 #
DOE/ER-04445/T4 ..... 15 p2287 N84-24725 #
DOE/ER-04463/7 ..... 21 p3360 N84-31314 #
DOE/ER-04471/T2 ..... 22 p3660 N84-33200 #
DOE/ER-04471/4 ..... 23 p3828 N84-34282 #
DOE/ER-04660/T1 ..... 01 p0146 N84-10957 #
DOE/ER-04693/T4 ..... 03 p0455 N84-12992 #
DOE/ER-04938/5 ..... 10 p1453 N84-19489 #
DOE/ER-05001/T1 ..... 19 p3103 N84-29715 #
DOE/ER-05002/35 ..... 01 p0044 N84-10284 #
DOE/ER-05002/37 ..... 10 p1589 N84-20416 #
DOE/ER-05002/38 ..... 11 p1635 N84-20689 #
DOE/ER-05002/39 ..... 15 p2414 N84-25496 #
DOE/ER-05002/41 ..... 23 p3719 N84-33573 #
DOE/ER-05007/20 ..... 11 p1760 N84-21489 #
DOE/ER-05031/5 ..... 23 p3715 N84-33549 #
DOE/ER-05111/T1 ..... 21 p3367 N84-31357 #
DOE/ER-05126/207 ..... 20 p3296 N84-30926 #
DOE/ER-05223/68 ..... 22 p3654 N84-33161 #
DOE/ER-05490/41 ..... 12 p1903 N84-22392 #
DOE/ER-05528/66 ..... 14 p2244 N84-24472 #
DOE/ER-05776/12 ..... 10 p1589 N84-20417 #
DOE/ER-05951/4 ..... 21 p3368 N84-31368 #
DOE/ER-06035/6 ..... 22 p3556 N84-32516 #
DOE/ER-06036/T1 ..... 01 p0144 N84-10946 #
DOE/ER-10000/T3 ..... 08 p1181 N84-17693 #
DOE/ER-10000/T4 ..... 08 p1180 N84-17690 #
DOE/ER-10107/17 ..... 04 p0501 N84-13283 #
DOE/ER-10107/18 ..... 04 p0500 N84-13282 #
DOE/ER-10107/19 ..... 04 p0500 N84-13281 #
DOE/ER-10107/20 ..... 04 p0549 N84-13618 #
DOE/ER-10107/21 ..... 04 p0499 N84-13276 #
DOE/ER-10107/22 ..... 05 p0694 N84-14554 #
DOE/ER-10250/T3 ..... 23 p3784 N84-34000 #
DOE/ER-10332/T2 ..... 12 p1902 N84-22388 #
DOE/ER-10357/1 ..... 11 p1710 N84-21145 #
DOE/ER-10359/51 ..... 12 p1799 N84-21734 #
DOE/ER-10361/4 ..... 08 p1188 N84-17740 #
DOE/ER-10367/14 ..... 20 p3157 N84-30051 #
DOE/ER-10369/T2 ..... 20 p3150 N84-30003 #
DOE/ER-10377/6 ..... 19 p2990 N84-28946 #
DOE/ER-10399/T1 ..... 11 p1629 N84-20659 #
DOE/ER-10416/5 ..... 22 p3665 N84-33238 #
DOE/ER-10419/3 ..... 08 p1230 N84-18038 #
DOE/ER-10421/5 ..... 22 p3560 N84-32546 #
DOE/ER-10428/5 ..... 10 p1461 N84-19543 #
DOE/ER-10444/10 ..... 22 p3667 N84-33248 #
DOE/ER-10448/1 ..... 03 p0456 N84-13004 #
DOE/ER-10459/46 ..... 15 p2415 N84-25499 #
DOE/ER-10461/T1 ..... 04 p0613 N84-14046 #
DOE/ER-10461/10 ..... 05 p0756 N84-14957 #
DOE/ER-10463/1 ..... 03 p0404 N84-12645 #
DOE/ER-10464/4 ..... 04 p0601 N84-13966 #
DOE/ER-10473/T1 ..... 10 p1502 N84-19818 #
DOE/ER-10473/T2 ..... 11 p1704 N84-21111 #
DOE/ER-10474/4 ..... 01 p0091 N84-10595 #
DOE/ER-10475/T2 ..... 10 p1462 N84-19552 #
DOE/ER-10477/4 ..... 19 p2990 N84-28945 #
DOE/ER-10482/T1 ..... 07 p1010 N84-16554 #
DOE/ER-10485/T4 ..... 09 p1285 N84-18389 #
DOE/ER-10512/4 ..... 19 p3102 N84-29708 #
DOE/ER-10531/T1 ..... 22 p3618 N84-32925 #
DOE/ER-10534/T1 ..... 15 p2330 N84-24990 #
DOE/ER-10534/3 ..... 15 p2330 N84-24991 #
DOE/ER-10535/T1 ..... 22 p3666 N84-33240 #
DOE/ER-10536/3-VOL-1 ..... 15 p2414 N84-25497 #
DOE/ER-10536/3-VOL-2 ..... 15 p2414 N84-25495 #
DOE/ER-10545/1 ..... 14 p2173 N84-24015 #
DOE/ER-10556/98 ..... 20 p3204 N84-30350 #
DOE/ER-10556/101 ..... 23 p3719 N84-33577 #
DOE/ER-10575/T1 ..... 03 p0442 N84-12902 #
DOE/ER-10578/T3 ..... 04 p0541 N84-13558 #
DOE/ER-10591/T1 ..... 04 p0508 N84-13327 #
DOE/ER-10598/4 ..... 06 p1236 N84-18076 #
DOE/ER-10612/9 ..... 10 p1577 N84-20332 #
DOE/ER-10618/9 ..... 07 p0971 N84-16290 #
DOE/ER-10618/10 ..... 07 p1073 N84-16970 #
DOE/ER-10619/T1 ..... 21 p3371 N84-31392 #
DOE/ER-10624/4 ..... 20 p3310 N84-31022 #
DOE/ER-10631/4 ..... 14 p2222 N84-24337 #
DOE/ER-10635/3 ..... 11 p1629 N84-20662 #
DOE/ER-10646/3 ..... 15 p2416 N84-25502 #
DOE/ER-10655/5 ..... 15 p2413 N84-25490 #
DOE/ER-10660/T2 ..... 20 p3295 N84-30922 #
DOE/ER-10668/3 ..... 04 p0602 N84-13975 #
DOE/ER-10669/2 ..... 22 p3653 N84-33160 #
DOE/ER-10671/2 ..... 10 p1456 N84-19510 #
DOE/ER-10691/T1 ..... 20 p3247 N84-30611 #
DOE/ER-10692/T1 ..... 06 p0822 N84-15358 #
DOE/ER-10693/T-T1 ..... 11 p1685 N84-20863 #
DOE/ER-10693/T2 ..... 12 p1822 N84-21878 #
DOE/ER-10699/T2 ..... 01 p0164 N84-11079 #
DOE/ER-10701/T1 ..... 02 p0264 N84-11740 #
DOE/ER-10708/T1 ..... 20 p3163 N84-30089 #
DOE/ER-10708/T2 ..... 20 p3159 N84-30059 #
DOE/ER-10711/2 ..... 10 p1590 N84-20422 #
DOE/ER-10711/3 ..... 20 p3282 N84-30838 #
DOE/ER-10722/T3 ..... 18 p2812 N84-27852 #
DOE/ER-10740/12 ..... 10 p1589 N84-20414 #
DOE/ER-10748/4 ..... 15 p2406 N84-25441 #
DOE/ER-10750/T1 ..... 01 p0155 N84-11017 #
DOE/ER-10753/4 ..... 22 p3680 N84-33326 #
DOE/ER-10755/3 ..... 06 p0916 N84-15952 #
DOE/ER-10766/12 ..... 11 p1693 N84-21041 #
DOE/ER-10846/T2 ..... 22 p3659 N84-33198 #
DOE/ER-10855/2 ..... 10 p1457 N84-19516 #
DOE/ER-10856/05 ..... 13 p2002 N84-22989 #
DOE/ER-10857/2 ..... 05 p0687 N84-14513 #
DOE/ER-10860/T1 ..... 08 p1228 N84-18023 #
DOE/ER-10865/T1 ..... 20 p3189 N84-30259 #
DOE/ER-10866/T2 ..... 11 p1745 N84-21384 #
DOE/ER-10866/T3 ..... 11 p1745 N84-21389 #
DOE/ER-10866/3 ..... 10 p1589 N84-20415 #
DOE/ER-10870/142 ..... 06 p0811 N84-15278 #
DOE/ER-10881/T2 ..... 04 p0615 N84-14059 #
DOE/ER-10887/3 ..... 18 p2943 N84-28660 #
DOE/ER-10903/4 ..... 03 p0414 N84-12710 #
DOE/ER-10907/1 ..... 22 p3556 N84-32519 #
DOE/ER-10910/03 ..... 21 p3368 N84-31365 #
DOE/ER-10911/5 ..... 07 p1043 N84-16760 #
DOE/ER-10911/6 ..... 20 p3150 N84-30005 #
DOE/ER-10913/3 ..... 22 p3548 N84-32458 #
DOE/ER-10934/T1 ..... 12 p1915 N84-22478 #
DOE/ER-10942/3 ..... 09 p1285 N84-18390 #
DOE/ER-10942/5 ..... 10 p1461 N84-19538 #
DOE/ER-10948/T1 ..... 04 p0545 N84-13591 #
DOE/ER-10956/6 ..... 07 p0975 N84-16319 #
DOE/ER-10959/3 ..... 14 p2243 N84-24467 #
DOE/ER-10960/3 ..... 01 p0046 N84-10296 #
DOE/ER-10961/1 ..... 03 p0403 N84-12638 #
DOE/ER-10964/T1 ..... 04 p0494 N84-13240 #
DOE/ER-10964/T2 ..... 04 p0534 N84-13514 #
DOE/ER-10964/T4 ..... 05 p0651 N84-14278 #
DOE/ER-10969/3 ..... 12 p1794 N84-21697 #
DOE/ER-10972/T2 ..... 20 p3157 N84-30050 #
DOE/ER-10978/4 ..... 15 p2339 N84-25042 #
DOE/ER-10979/5 ..... 12 p1908 N84-22432 #
DOE/ER-10992/2 ..... 13 p1958 N84-22726 #
DOE/ER-10996/T2 ..... 18 p2926 N84-28558 #
DOE/ER-12001/T1 ..... 14 p2214 N84-24301 #
DOE/ER-12010/1 ..... 04 p0537 N84-13532 #
DOE/ER-12022/2 ..... 10 p1494 N84-19768 #
DOE/ER-12033/T1 ..... 11 p1655 N84-20802 #
DOE/ER-12037/1 ..... 01 p0091 N84-10592 #
DOE/ER-12038/3 ..... 10 p1461 N84-19540 #
DOE/ER-12038/9 ..... 10 p1461 N84-19541 #
DOE/ER-12038/10 ..... 10 p1462 N84-19549 #
DOE/ER-12038/11 ..... 10 p1461 N84-19544 #
DOE/ER-12038/12 ..... 10 p1462 N84-19548 #
DOE/ER-12039/1 ..... 12 p1863 N84-22142 #
DOE/ER-12058/2 ..... 07 p0970 N84-16287 #

DOE/ER-12061/2	18	p2941	N84-28653	#
DOE/ER-12063/T1	23	p3720	N84-33580	#
DOE/ER-12064/2	22	p3666	N84-33241	#
DOE/ER-12076/T1	09	p1289	N84-18414	#
DOE/ER-12081/5	19	p3102	N84-29705	#
DOE/ER-12085/1	22	p3629	N84-32994	#
DOE/ER-12098/1	03	p0354	N84-12305	#
DOE/ER-13000/T1	02	p0299	N84-11964	#
DOE/ER-13008/2	04	p0536	N84-13524	#
DOE/ER-13026/1	10	p1530	N84-20023	#
DOE/ER-13026/2	20	p3235	N84-30533	#
DOE/ER-13069/T1	19	p3090	N84-29620	#
DOE/ER-13098/1	19	p3103	N84-29711	#
DOE/ER-13112/1	15	p2369	N84-25214	#
DOE/ER-13116/1	18	p2930	N84-28580	#
DOE/ER-13127/03	20	p3195	N84-30291	#
DOE/ER-13163/2	20	p3198	N84-30311	#
DOE/ER-13163/3	22	p3605	N84-32841	#
DOE/ER-28502/1	01	p0139	N84-10909	#
DOE/ER-29365/3	12	p1892	N84-22321	#
DOE/ER-30029/T1	04	p0559	N84-13683	#
DOE/ER-30041/T1	10	p1530	N84-20020	#
DOE/ER-30042/T1	20	p3298	N84-30946	#
DOE/ER-40001/T2	21	p3495	N84-32147	#
DOE/ER-40003/2	09	p1388	N84-19064	#
DOE/ER-40008/35	01	p0156	N84-11028	#
DOE/ER-40008/41	02	p0292	N84-11912	#
DOE/ER-40008/56	15	p2399	N84-25395	#
DOE/ER-40014/T1	03	p0438	N84-12877	#
DOE/ER-40036/T1	11	p1730	N84-21289	#
DOE/ER-40039/T1	22	p3655	N84-33167	#
DOE/ER-40048/16	05	p0745	N84-14895	#
DOE/ER-40048/35-L2	07	p1090	N84-17088	#
DOE/ER-40048/57	05	p0764	N84-15009	#
DOE/ER-40048/61	03	p0461	N84-13038	#
DOE/ER-40048/62-L3	03	p0434	N84-12846	#
DOE/ER-40048/73-L3	06	p0916	N84-15954	#
DOE/ER-40048/82-L3	22	p3681	N84-33335	#
DOE/ER-40058/1	08	p1230	N84-18039	#
DOE/ER-40073/2	19	p3103	N84-29716	#
DOE/ER-40074/T1	12	p1902	N84-22387	#
DOE/ER-40088/1-PT-2	20	p3294	N84-30914	#
DOE/ER-40089/1	20	p3310	N84-31024	#
DOE/ER-40108/1	21	p3495	N84-32148	#
DOE/ER-45023/1	07	p1083	N84-17042	#
DOE/ER-45025/1	12	p1915	N84-22477	#
DOE/ER-45025/2	07	p1082	N84-17037	#
DOE/ER-45029/1	19	p2986	N84-28922	#
DOE/ER-45030/1	22	p3605	N84-32839	#
DOE/ER-45036/1	22	p3665	N84-33237	#
DOE/ER-45039/1	21	p3368	N84-31366	#
DOE/ER-45043/1	22	p3666	N84-33242	#
DOE/ER-45045/1	14	p2121	N84-23710	#
DOE/ER-51031/T1	01	p0150	N84-10983	#
DOE/ER-52061/1	08	p1232	N84-18055	#
DOE/ER-52061/2	21	p3502	N84-32196	#
DOE/ER-52081/1	18	p2815	N84-27871	#
DOE/ER-52083/T1	04	p0523	N84-13441	#
DOE/ER-52090/1	09	p1392	N84-19092	#
DOE/ER-52104/1	22	p3680	N84-33202	#
DOE/ER-53092/T6-VOL-1-SUMM	03	p0445	N84-12924	#
DOE/ER-53092/T6-VOL-2-APP	03	p0445	N84-12925	#
DOE/ER-53110/1	20	p3302	N84-30970	#
DOE/ER-53113/T2	19	p3109	N84-29753	#
DOE/ER-53117/T2	14	p2229	N84-24370	#
DOE/ER-53122/2	10	p1500	N84-19806	#
DOE/ER-53125/T1	12	p1910	N84-22446	#
DOE/ER-53126/T1	20	p3303	N84-30978	#
DOE/ER-53140/12	11	p1738	N84-21338	#
DOE/ER-53140/13	18	p2934	N84-28605	#
DOE/ER-53147/1	03	p0448	N84-12947	#
DOE/ER-53150/T3	15	p2411	N84-25472	#
DOE/ER-53154/61	12	p1910	N84-22445	#
DOE/ER-53162/3	20	p3306	N84-31002	#
DOE/ER-54010/T1	08	p1233	N84-18056	#
DOE/ER-60023/T1	21	p3448	N84-31874	#
DOE/ER-60023/1	01	p0104	N84-10674	#
DOE/ER-60045/T1	02	p0244	N84-11597	#
DOE/ER-60059/T1	12	p1861	N84-22125	#
DOE/ER-60059/T2	14	p2180	N84-24055	#
DOE/ER-60063/1	01	p0088	N84-10574	#
DOE/ER-60082/T1	12	p1847	N84-22043*	#
DOE/ER-60104/3	19	p3059	N84-29410	#
DOE/ER-60108/2	22	p3549	N84-32466	#
DOE/ER-70004/331	02	p0291	N84-11909	#
DOE/ER-70004/351	03	p0437	N84-12871	#
DOE/ER-70006/T6-9	02	p0250	N84-11636	#
DOE/ER-70058/T2	06	p1126	N84-17320	#
DOE/ER-70217/T1	04	p0601	N84-13971	#
DOE/ER-70286-T1	02	p0290	N84-11899	#
DOE/ER-71013/T3	04	p0494	N84-13243	#
DOE/ER-71043/T1	23	p3830	N84-34296	#
DOE/ER-71085/T2	04	p0572	N84-13766	#
DOE/ER-72012/T1	21	p3401	N84-31572	#
DOE/ER-72018/T9	01	p0124	N84-10811	#
DOE/ER-72018/T10	02	p0283	N84-11854	#
DOE/ER-72018/T12	01	p0135	N84-10883	#
DOE/ER-75016/T1	13	p1965	N84-22765	#
DOE/ER-75016/T2-PT-3	14	p2130	N84-23770	#
DOE/ER-80027/1	19	p3105	N84-29729	#
DOE/ER-109664/T3	04	p0494	N84-13244	#
DOE/ET-00088/T1	19	p3112	N84-29771	#
DOE/ET-10069/T41	03	p0351	N84-12281	#
DOE/ET-10747/T1	04	p0504	N84-13301	#
DOE/ET-11304/28	15	p2364	N84-25183	#
DOE/ET-12099/5	12	p1844	N84-22021	#
DOE/ET-13329/T2	21	p3359	N84-31307	#
DOE/ET-13333/T2	01	p0053	N84-10342	#
DOE/ET-14102/4	01	p0053	N84-10345	#
DOE/ET-15303/T7	12	p1823	N84-21883	#
DOE/ET-15322/T6	21	p3367	N84-31363	#
DOE/ET-15440/T1	10	p1487	N84-19720	#
DOE/ET-15450/T29	20	p3167	N84-30111	#
DOE/ET-15457/1522	18	p2815	N84-27870	#
DOE/ET-15457/1575	23	p3719	N84-33579	#
DOE/ET-15611/15	15	p2411	N84-25474	#
DOE/ET-20279/188	16	p2512	N84-26122	#
DOE/ET-20279/193	05	p0700	N84-14592	#
DOE/ET-20342/T12	20	p3299	N84-30948	#
DOE/ET-20356/8	07	p1025	N84-16643*	#
DOE/ET-20356/9	12	p1842	N84-22009*	#
DOE/ET-20356/11	18	p2870	N84-28220*	#
DOE/ET-20356/12	22	p3617	N84-32920*	#
DOE/ET-20356/14	22	p3617	N84-32921*	#
DOE/ET-20356/15	22	p3675	N84-33299*	#
DOE/ET-20356/16	22	p3618	N84-32922*	#
DOE/ET-20356/17	22	p3662	N84-33213*	#
DOE/ET-25209/1	10	p1458	N84-19511	#
DOE/ET-27014/T7	15	p2368	N84-25211	#
DOE/ET-27014/T8	21	p3432	N84-31773	#
DOE/ET-27014/T9	21	p3431	N84-31771	#
DOE/ET-27014/T10	19	p3055	N84-29384	#
DOE/ET-27014/T13	21	p3445	N84-31856	#
DOE/ET-27014/T17	20	p3229	N84-30519	#
DOE/ET-27014/T19	23	p3784	N84-33999	#
DOE/ET-27111/T2	10	p1526	N84-19996	#
DOE/ET-27112/4	12	p1836	N84-21972	#
DOE/ET-27125/T2-VOL-6	15	p2363	N84-25181	#
DOE/ET-27125/22-VOL-3	18	p2876	N84-28260	#
DOE/ET-27205/T1	20	p3229	N84-30518	#
DOE/ET-27252/T3	22	p3564	N84-32573	#
DOE/ET-27252/T4	22	p3564	N84-32571	#
DOE/ET-27252/T8	22	p3564	N84-32574	#
DOE/ET-28407/4	20	p3229	N84-30517	#
DOE/ET-29069/T2	10	p1487	N84-19719	#
DOE/ET-29071/15	12	p1814	N84-21822	#
DOE/ET-29372/3	18	p2869	N84-28211*	#
DOE/ET-33067/T1	02	p0227	N84-11488	#
DOE/ET-37249/1	07	p0975	N84-16321	#
DOE/ET-51013/69	18	p2933	N84-28599	#
DOE/ET-51013/70	03	p0447	N84-12937	#
DOE/ET-51013/77	02	p0296	N84-11939	#
DOE/ET-51013/81	01	p0154	N84-11013	#
DOE/ET-51013/83	01	p0149	N84-10982	#
DOE/ET-51013/88	03	p0449	N84-12950	#
DOE/ET-51013/89	04	p0609	N84-14018	#
DOE/ET-51013/91	03	p0430	N84-12817	#
DOE/ET-51013/93	11	p1738	N84-21337	#
DOE/ET-51013/99	04	p0611	N84-14034	#
DOE/ET-51013/100	07	p1077	N84-17000	#
DOE/ET-51013/109	12	p1911	N84-22451	#
DOE/ET-51013/112	20	p3304	N84-30983	#
DOE/ET-51013/114	19	p3106	N84-29737	#
DOE/ET-51013/118	19	p3107	N84-29745	#
DOE/ET-51013/119	20	p3304	N84-30982	#
DOE/ET-51013/120	20	p3303	N84-30979	#
DOE/ET-51013/121	20	p3304	N84-30981	#
DOE/ET-52040/T17	04	p0607	N84-14006	#
DOE/ET-52040/296	10	p1586	N84-20397	#
DOE/ET-53001/5	05	p0750	N84-14922	#
DOE/ET-53016/T3	21	p3500	N84-32185	#
DOE/ET-53027/1	01	p0150	N84-10989	#
DOE/ET-53036/40	04	p0609	N84-14022	#
DOE/ET-53043/6	03	p0447	N84-12938	#
DOE/ET-53051/57	03	p0449	N84-12951	#
DOE/ET-53051/60	07	p1078	N84-17006	#
DOE/ET-53051/62	19	p3109	N84-29754	#
DOE/ET-53051/63	21	p3501	N84-32192	#
DOE/ET-53051/65	21	p3502	N84-32193	#
DOE/ET-53051/66	20	p3306	N84-30998	#
DOE/ET-53052/T1	11	p1661	N84-20835	#
DOE/ET-53088/85	01	p0149	N84-10981	#
DOE/ET-53088/91	01	p0149	N84-10980	#
DOE/ET-53088/94	04	p0621	N84-14099	#
DOE/ET-53088/95	02	p0287	N84-11880	#
DOE/ET-53088/96	01	p0150	N84-10987	#
DOE/ET-53088/97	04	p0609	N84-14021	#
DOE/ET-53088/98	04	p0609	N84-14020	#
DOE/ET-53088/102	06	p0921	N84-15990	#
DOE/ET-53088/103	04	p0610	N84-14024	#
DOE/ET-53088/104	04	p0610	N84-14027	#

DOE/ET-53088/105 ..... 06 p0921 N84-15987 #
DOE/ET-53088/107 ..... 06 p0921 N84-15985 #
DOE/ET-53088/110 ..... 07 p1077 N84-17003 #
DOE/ET-53088/111 ..... 06 p0921 N84-15988 #
DOE/ET-53088/112 ..... 14 p2229 N84-24367 #
DOE/ET-53088/116 ..... 12 p1911 N84-22448 #
DOE/ET-53088/117 ..... 11 p1737 N84-21335 #
DOE/ET-53088/119 ..... 09 p1393 N84-19093 #
DOE/ET-53088/120 ..... 14 p2229 N84-24369 #
DOE/ET-53088/124 ..... 12 p1910 N84-22443 #
DOE/ET-53088/128 ..... 14 p2230 N84-24378 #
DOE/ET-53088/132 ..... 20 p3307 N84-31003 #
DOE/ET-53088/135 ..... 20 p3285 N84-30859 #
DOE/ET-53136/7 ..... 20 p3305 N84-30988 #

DOE/EV-0005/47 ..... 21 p3497 N84-32165 #
DOE/EV-0159/235-PT-4 ..... 03 p0402 N84-12627 #
DOE/EV-00901/7 ..... 11 p1692 N84-21034 #
DOE/EV-00902/35 ..... 20 p3251 N84-30635 #
DOE/EV-00936/7 ..... 11 p1692 N84-21035 #
DOE/EV-01105/304 ..... 06 p0886 N84-15761 #
DOE/EV-01332/1 ..... 20 p3257 N84-30673 #
DOE/EV-01599/235-PT-1 ..... 04 p0571 N84-13761 #
DOE/EV-01599/235-PT-3 ..... 03 p0401 N84-12625 #
DOE/EV-02360/1 ..... 13 p2010 N84-23036 #
DOE/EV-03018/247 ..... 07 p1043 N84-16761 #
DOE/EV-03490/2335 ..... 06 p0890 N84-15785 #
DOE/EV-04361/T4 ..... 04 p0597 N84-13937 #
DOE/EV-06194/2-REV-1 ..... 11 p1639 N84-20714 #
DOE/EV-10097/5 ..... 10 p1537 N84-20072 #
DOE/EV-10098/T2 ..... 19 p3059 N84-29408 #
DOE/EV-10098/5 ..... 23 p3801 N84-34104 #
DOE/EV-10403/11 ..... 02 p0245 N84-11603 #
DOE/EV-10468/T1 ..... 08 p1179 N84-17680 #
DOE/EV-10468/1 ..... 04 p0554 N84-13652 #
DOE/EV-10665/4 ..... 11 p1688 N84-21010 #

DOE/FE-15078/1613 ..... 22 p3589 N84-32733 #
DOE/FE-60148/T3 ..... 22 p3549 N84-32468 #
DOE/FE-60181/72 ..... 22 p3543 N84-32432 #

DOE/ID-01717/4 ..... 10 p1526 N84-19997 #
DOE/ID-12038/T1 ..... 02 p0240 N84-11575 #
DOE/ID-12057/T6 ..... 20 p3241 N84-30578 #
DOE/ID-12057/T7 ..... 21 p3445 N84-31858 #
DOE/ID-12079/106 ..... 20 p3241 N84-30579 #
DOE/ID-12079/107 ..... 21 p3431 N84-31769 #
DOE/ID-12079/109 ..... 21 p3444 N84-31853 #
DOE/ID-12138/3 ..... 18 p2836 N84-28003* #
DOE/ID-12239/T1 ..... 11 p1653 N84-20793 #
DOE/ID-12327/T1 ..... 02 p0203 N84-11326 #
DOE/ID-12337/T1 ..... 02 p0204 N84-11327 #
DOE/ID-12423/T1 ..... 10 p1456 N84-19507 #

DOE/IR-10321/T1 ..... 01 p0057 N84-10374 #

DOE/JPL-1012-90 ..... 12 p1912 N84-22460* #
DOE/JPL-1012-91 ..... 12 p1842 N84-22008* #
DOE/JPL-1012-92 ..... 12 p1838 N84-21980* #
DOE/JPL-1012-95 ..... 18 p2935 N84-28614* #
DOE/JPL-1012-96 ..... 18 p2868 N84-28210* #
DOE/JPL-1012-97-VOL-2 ..... 23 p3786 N84-34013* #
DOE/JPL-1012-98 ..... 22 p3582 N84-32683* #
DOE/JPL-1012/93 ..... 12 p1801 N84-21741* #
DOE/JPL-1060-61-VOL-1 ..... 07 p1025 N84-16640* #
DOE/JPL-1060-61-VOL-2 ..... 07 p1025 N84-16641* #
DOE/JPL-1060-62 ..... 12 p1842 N84-22010* #
DOE/JPL-1060-63 ..... 07 p1025 N84-16644* #
DOE/JPL-1060-64 ..... 12 p1841 N84-22004* #
DOE/JPL-1060-65 ..... 18 p2871 N84-28223* #
DOE/JPL-1060-68 ..... 18 p2869 N84-28212* #
DOE/JPL-1060-69 ..... 18 p2871 N84-28224* #
DOE/JPL-1060-70 ..... 18 p2870 N84-28217* #
DOE/JPL-1060-73 ..... 18 p2870 N84-28218* #
DOE/JPL-1060/66 ..... 22 p3616 N84-32915* #
DOE/JPL-1060/67 ..... 12 p1842 N84-22011* #
DOE/JPL-1060/71 ..... 22 p3617 N84-32916* #
DOE/JPL-1060/72 ..... 22 p3617 N84-32917* #
DOE/JPL-1060/74 ..... 22 p3617 N84-32918* #
DOE/JPL-1060/75 ..... 22 p3617 N84-32919* #
DOE/JPL-95567-83/12 ..... 23 p3787 N84-34016* #
DOE/JPL-954334-79/14 ..... 23 p3789 N84-34034* #
DOE/JPL-954527-26 ..... 23 p3789 N84-34029* #
DOE/JPL-954527-83/24 ..... 18 p2868 N84-28209* #
DOE/JPL-954527-83/25 ..... 18 p2870 N84-28219* #
DOE/JPL-955089-83/17 ..... 23 p3787 N84-34020* #
DOE/JPL-955392-2 ..... 18 p2868 N84-28208* #
DOE/JPL-955533-83/7 ..... 23 p3786 N84-34015* #
DOE/JPL-955567-84/14 ..... 23 p3789 N84-34028* #
DOE/JPL-955643-83 ..... 23 p3788 N84-34024* #
DOE/JPL-955688-82/10 ..... 19 p3049 N84-29350* #
DOE/JPL-955843-84/12 ..... 23 p3787 N84-34019* #
DOE/JPL-955902-83/11 ..... 18 p2869 N84-28213* #
DOE/JPL-955902/82-8 ..... 18 p2869 N84-28214* #
DOE/JPL-955909-83/11 ..... 23 p3787 N84-34017* #
DOE/JPL-956046-10 ..... 23 p3789 N84-34032* #
DOE/JPL-956046-83/9 ..... 18 p2870 N84-28221* #
DOE/JPL-956053-84/05 ..... 23 p3788 N84-34023* #
DOE/JPL-956133-83/1 ..... 19 p3050 N84-29352* #
DOE/JPL-956205-83/4 ..... 23 p3786 N84-34014* #
DOE/JPL-956205-83/6 ..... 23 p3788 N84-34022* #
DOE/JPL-956205-84-6 ..... 24 p3884 N84-34609* #
DOE/JPL-956205-84/7 ..... 23 p3789 N84-34031* #
DOE/JPL-956252-83/1 ..... 19 p3049 N84-29351* #
DOE/JPL-956369-83/02 ..... 18 p2869 N84-28215* #
DOE/JPL-956369-84/01 ..... 18 p2869 N84-28216* #
DOE/JPL-956615-84/1 ..... 19 p3050 N84-29354* #
DOE/JPL-956615-84/2 ..... 19 p3050 N84-29355* #
DOE/JPL-956615-84/2 ..... 21 p3409 N84-31619* #
DOE/JPL-956616-1 ..... 23 p3787 N84-34021* #
DOE/JPL-956616-83-3 ..... 23 p3786 N84-34012* #
DOE/JPL-956616-83/2 ..... 19 p3050 N84-29353* #
DOE/JPL-956679-84-1 ..... 24 p3884 N84-34610* #
DOE/JPL-956698-84/2 ..... 23 p3788 N84-34026* #
DOE/JPL-956698-84/3 ..... 23 p3789 N84-34033* #
DOE/JPL-956741-81/01 ..... 23 p3788 N84-34025* #
DOE/JPL-956797-01 ..... 23 p3788 N84-34027* #
DOE/JPL-957312-05 ..... 23 p3787 N84-34018* #

DOE/LC-10886/1556 ..... 20 p3242 N84-30585 #

DOE/MA-0106/1 ..... 15 p2420 N84-25534 #
DOE/MA-0155 ..... 21 p3516 N84-32269 #
DOE/MA-40000/T2 ..... 06 p0936 N84-16083 #
DOE/MA-40000/T3 ..... 06 p0936 N84-16082 #

DOE/MC-16021/1486 ..... 18 p2876 N84-28261 #
DOE/MC-16537/T6 ..... 04 p0494 N84-13242 #
DOE/MC-20047/1631 ..... 23 p3803 N84-34116 #
DOE/MC-20212/1569 ..... 20 p3234 N84-30531 #

DOE/METC-83/69 ..... 23 p3751 N84-33775 #

DOE/NASA/0007-1 ..... 01 p0102 N84-10661* #
DOE/NASA/0017-2 ..... 23 p3790 N84-34037* #
DOE/NASA/0032-21 ..... 08 p1242 N84-18117* #
DOE/NASA/0032-23 ..... 22 p3677 N84-33307* #
DOE/NASA/0032-80/7 ..... 21 p3521 N84-32305* #
DOE/NASA/0065-83/1 ..... 01 p0069 N84-10450* #
DOE/NASA/0084-1 ..... 09 p1406 N84-19185* #
DOE/NASA/0091-1 ..... 17 p2628 N84-26813* #
DOE/NASA/0131-1 ..... 01 p0009 N84-10054* #
DOE/NASA/0131-2 ..... 04 p0485 N84-13189* #
DOE/NASA/0142-1 ..... 18 p2821 N84-27909* #
DOE/NASA/0156-83/1 ..... 06 p0873 N84-15679* #
DOE/NASA/0167-7 ..... 19 p3117 N84-29805* #
DOE/NASA/0168-5 ..... 01 p0089 N84-10581* #
DOE/NASA/0168-6 ..... 06 p0852 N84-15554* #
DOE/NASA/0168-7 ..... 18 p2849 N84-28089* #
DOE/NASA/0189-83/2 ..... 04 p0617 N84-14071* #
DOE/NASA/0201-4 ..... 15 p2362 N84-25169* #
DOE/NASA/0205-8 ..... 16 p2518 N84-26185* #
DOE/NASA/0211-1 ..... 21 p3390 N84-31514* #
DOE/NASA/0235-1 ..... 11 p1753 N84-21445* #
DOE/NASA/0241-5 ..... 04 p0557 N84-13673* #
DOE/NASA/0241-7 ..... 02 p0241 N84-11581* #
DOE/NASA/0241-10 ..... 04 p0557 N84-13672* #
DOE/NASA/0241-12 ..... 11 p1673 N84-20915* #
DOE/NASA/0241-13 ..... 17 p2723 N84-27329* #
DOE/NASA/0249-81/1 ..... 07 p1088 N84-17073* #
DOE/NASA/0250-1 ..... 02 p0241 N84-11580* #
DOE/NASA/0257-1 ..... 21 p3434 N84-31784* #
DOE/NASA/0258-1 ..... 10 p1529 N84-20014* #
DOE/NASA/0263-1 ..... 19 p2992 N84-28960* #
DOE/NASA/0264-1 ..... 19 p3050 N84-29358* #
DOE/NASA/0266-1 ..... 14 p2131 N84-23775* #
DOE/NASA/0291-1 ..... 09 p1341 N84-18757* #
DOE/NASA/0295-1 ..... 05 p0699 N84-14587* #
DOE/NASA/0300-1 ..... 22 p3676 N84-33304* #
DOE/NASA/0301-1 ..... 05 p0761 N84-14991* #
DOE/NASA/0302-1 ..... 21 p3521 N84-32306* #
DOE/NASA/0304-1 ..... 21 p3521 N84-32307* #
DOE/NASA/0323-1 ..... 22 p3677 N84-33309* #
DOE/NASA/0327-1 ..... 23 p3790 N84-34036* #
DOE/NASA/0337-1 ..... 17 p2723 N84-27328* #
DOE/NASA/0354-1 ..... 19 p3050 N84-29357* #
DOE/NASA/0354-2 ..... 21 p3433 N84-31783* #
DOE/NASA/0394-1 ..... 22 p3676 N84-33306* #
DOE/NASA/1005-2 ..... 12 p1921 N84-22512* #
DOE/NASA/1005-3 ..... 14 p2249 N84-24509* #
DOE/NASA/2701-3 ..... 01 p0102 N84-10663* #
DOE/NASA/4936-3 ..... 21 p3413 N84-31641* #
DOE/NASA/12726-23 ..... 02 p0241 N84-11579* #
DOE/NASA/13111-14 ..... 23 p3790 N84-34038* #
DOE/NASA/17088-4 ..... 01 p0102 N84-10665* #
DOE/NASA/20305-9 ..... 04 p0557 N84-13670* #
DOE/NASA/20320-53 ..... 01 p0102 N84-10664* #
DOE/NASA/20320-57-PT-2 ..... 08 p1149 N84-17479* #
DOE/NASA/20320-58 ..... 17 p2722 N84-27327* #
DOE/NASA/20320-59 ..... 19 p3049 N84-29347* #
DOE/NASA/20485-16 ..... 16 p2483 N84-25926* #
DOE/NASA/50194-38 ..... 23 p3836 N84-34330* #

DOE/NASA/50194-39 ..... 16 p2438 N84-25644* #
DOE/NASA/51040-50 ..... 06 p0805 N84-15246* #
DOE/NASA/51040-51 ..... 07 p1016 N84-16589* #
DOE/NASA/51040-52 ..... 16 p2569 N84-26484* #
DOE/NASA/51040-53 ..... 19 p2992 N84-28962* #
DOE/NASA/51040-55 ..... 16 p2464 N84-25793* #
DOE/NASA/51040-56 ..... 24 p3883 N84-34603* #
DOE/NASA/51044-33 ..... 10 p1529 N84-20017* #
DOE/NASA/51044-34 ..... 10 p1529 N84-20016* #
DOE/NASA/51044-36 ..... 15 p2361 N84-25166* #

DOE/NBB-0036 ..... 19 p3052 N84-29365 #
DOE/NBB-0037 ..... 01 p0101 N84-10654 #
DOE/NBB-0039 ..... 02 p0245 N84-11602 #
DOE/NBB-0040 ..... 04 p0564 N84-13721 #
DOE/NBB-0062 ..... 23 p3793 N84-34055 #
DOE/NBB-0063 ..... 23 p3793 N84-34056 #

DOE/NBM-301363 ..... 02 p0244 N84-11600 #
DOE/NBM-3012040 ..... 01 p0154 N84-11011 #
DOE/NBM-3012064 ..... 03 p0460 N84-13031 #
DOE/NBM-3016854 ..... 04 p0565 N84-13723 #
DOE/NBM-3018226 ..... 04 p0555 N84-13654 #
DOE/NBM-4001405 ..... 05 p0714 N84-14676 #
DOE/NBM-4006918 ..... 14 p2170 N84-23998 #
DOE/NBM-4007527 ..... 15 p2372 N84-25230 #
DOE/NBM-4007536 ..... 15 p2330 N84-24992 #
DOE/NBM-4007542 ..... 19 p3032 N84-29232 #
DOE/NBM-4009101 ..... 20 p3296 N84-30941 #
DOE/NBM-4009195 ..... 15 p2411 N84-25475 #

DOE/NE-33060/T1 ..... 01 p0154 N84-11015 #
DOE/NE-50004/T1 ..... 03 p0381 N84-12479 #

DOE/NOAA/OTEC-40 ..... 01 p0060 N84-10397 #
DOE/NOAA/OTEC-41 ..... 01 p0060 N84-10393 #
DOE/NOAA/OTEC-41 ..... 01 p0060 N84-10394 #
DOE/NOAA/OTEC-42 ..... 01 p0060 N84-10392 #
DOE/NOAA/OTEC-66 ..... 01 p0060 N84-10395 #
DOE/NOAA/OTEC-68 ..... 01 p0060 N84-10396 #
DOE/NOAA/OTEC-74 ..... 01 p0060 N84-10396 #

DOE/NV-10113/1 ..... 21 p3522 N84-32309 #
DOE/NV-10162/4 ..... 02 p0219 N84-11434 #
DOE/NV-10162/10 ..... 02 p0256 N84-11678 #
DOE/NV-10162/11 ..... 04 p0554 N84-13649 #
DOE/NV-10282/4066 ..... 21 p3406 N84-31605 #

DOE/OR-00033/T62 ..... 21 p3466 N84-31975 #
DOE/OR-21400/T2 ..... 15 p2363 N84-25179 #
DOE/OR-21400/1 ..... 23 p3793 N84-34054 #
DOE/OR-90300/T1 ..... 02 p0215 N84-11406 #

DOE/PC-30026/T5 ..... 20 p3187 N84-30251 #
DOE/PC-30204/T1 ..... 05 p0651 N84-14283 #
DOE/PC-30239/T4 ..... 21 p3359 N84-31308 #
DOE/PC-30247/T4 ..... 03 p0349 N84-12271 #
DOE/PC-30303/5 ..... 11 p1653 N84-20794 #
DOE/PC-40276/5 ..... 02 p0191 N84-11242 #
DOE/PC-40277/T1 ..... 12 p1803 N84-21755 #
DOE/PC-40809/20 ..... 07 p0972 N84-16302 #
DOE/PC-50796/T3 ..... 10 p1494 N84-19771 #
DOE/PC-50796/T5 ..... 20 p3185 N84-30241 #
DOE/PC-50800/T3 ..... 03 p0373 N84-12432 #
DOE/PC-50800/T4 ..... 07 p1061 N84-17030 #
DOE/PC-50804/5 ..... 15 p2288 N84-24727 #
DOE/PC-50810/T6 ..... 20 p3166 N84-30109 #
DOE/PC-53141/T1 ..... 12 p1845 N84-22030 #
DOE/PC-60019/1 ..... 20 p3166 N84-30108 #
DOE/PC-60783/2 ..... 21 p3362 N84-31330 #
DOE/PC-60807/2 ..... 15 p2287 N84-24724 #
DOE/PC-60807/3 ..... 21 p3360 N84-31312 #

DOE/RA-50075/1 ..... 21 p3444 N84-31852 #
DOE/RA-50075/2 ..... 21 p3431 N84-31770 #
DOE/RA-50293/1 ..... 05 p0712 N84-14664 #
DOE/RA-50419/1 ..... 23 p3820 N84-34227 #
DOE/RA-50420/1 ..... 22 p3644 N84-33103 #

DOE/RL-01830/T10 ..... 10 p1502 N84-19819 #
DOE/RL-01830/T11 ..... 09 p1326 N84-18662 #
DOE/RL-01830/T16 ..... 20 p3248 N84-30613 #
DOE/RL-01830/T17 ..... 20 p3248 N84-30612 #

DOE/RW-83/067 ..... 15 p2372 N84-25232 #
DOE/RW-83/070 ..... 07 p1074 N84-16983 #
DOE/RW-83/134 ..... 19 p3062 N84-29431 #
DOE/RW-83/139 ..... 15 p2372 N84-25233 #
DOE/RW-83/160 ..... 20 p3299 N84-30950 #
DOE/RW-83/162 ..... 19 p3062 N84-29430 #

DOE/R4-10224-T1 ..... 04 p0559 N84-13686 #
DOE/R4-10243/T1 ..... 04 p0544 N84-13586 #
DOE/R4-10249/T1 ..... 05 p0676 N84-14448 #
DOE/R4-10406/T1 ..... 06 p0813 N84-15291 #
DOE/R4-10432/T1 ..... 07 p0999 N84-16479 #

DOE/R4-10435/T1 ..... 04 p0558 N84-13677 #
DOE/R4-10464/T1 ..... 05 p0688 N84-14523 #
DOE/R5-10309/3 ..... 11 p1674 N84-20922 #
DOE/R5-10326/2 ..... 06 p0851 N84-15551
DOE/R6-10997/T1 ..... 07 p1026 N84-16647 #
DOE/R6-12053/T1 ..... 07 p1008 N84-16536 #
DOE/R6-12054/T1 ..... 22 p3594 N84-32761 #
DOE/R7-01109/T1 ..... 12 p1843 N84-22013 #
DOE/R7-01219/T1 ..... 20 p3247 N84-30606 #
DOE/R7-01221/T1 ..... 20 p3236 N84-30545 #
DOE/R7-01221/T3 ..... 20 p3237 N84-30546 #
DOE/R7-01221/T4 ..... 19 p3051 N84-29363 #
DOE/R7-01250/T3 ..... 21 p3507 N84-32218 #

DOE/S-0026 ..... 13 p2045 N84-23270 #

DOE/SF-11558/T5 ..... 14 p2172 N84-24010 #
DOE/SF-11564/6 ..... 20 p3186 N84-30246 #
DOE/SF-11573/T1-VOL-1 ..... 12 p1921 N84-22513 #
DOE/SF-11655/T1 ..... 12 p1843 N84-22017 #
DOE/SF-11725/T1 ..... 22 p3655 N84-33168 #
DOE/SF-115393/T1 ..... 03 p0404 N84-12640 #

DOE/SR-10957/3 ..... 19 p3073 N84-29497 #

DOE/TIC-4500-REV-69 ..... 06 p0814 N84-15297 #
DOE/TIC-4579-PTS-1/2-REV-13 ..... 21 p3518 N84-32289 #
DOE/TIC-4584/R5 ..... 02 p0302 N84-11984 #
DOE/TIC-4585/R4 ..... 21 p3518 N84-32290 #
DOE/TIC-11616 ..... 09 p1405 N84-19178 #

DOT-CG-N-1-84 ..... 24 p3853 N84-34434 #
DOT-CG-N-2-82 ..... 11 p1605 N84-20509 #

DOT-FAA-PM-84/1 ..... 23 p3800 N84-34091 #

DOT-FA78WA-4259 ..... 01 p0105 N84-10685 #

DOT-HS-806-365 ..... 01 p0164 N84-11075 #
DOT-HS-806-379-VOL-1 ..... 01 p0092 N84-10598 #

DOT-I-83-20 ..... 22 p3677 N84-33308 #

DOT-TSC-CG-83-4 ..... 11 p1605 N84-20509 #
DOT-TSC-CG-83-5 ..... 19 p2961 N84-28769 #
DOT-TSC-CG-84-1 ..... 24 p3853 N84-34434 #

DOT-TSC-FAA-82-6 ..... 13 p2017 N84-23074 #
DOT-TSC-FAA-83-2 ..... 14 p2100 N84-23602 #

DOT-TSC-RSPA-83-10 ..... 08 p1103 N84-17170 #
DOT-TSC-RSPA-83-11 ..... 10 p1427 N84-19332 #
DOT-TSC-RSPA-83-14 ..... 20 p3249 N84-30624 #
DOT-TSC-RSPA-83-15 ..... 20 p3249 N84-30625 #
DOT-TSC-RSPA-84-1 ..... 22 p3534 N84-32374 #

DOT-TSC-UMTA-83-4.1-VOL-1 ..... 02 p0217 N84-11420 #
DOT-TSC-UMTA-83-4.2-VOL-2 ..... 02 p0217 N84-11421 #

DOT/FAA-ACS-83-1(18) ..... 08 p1100 N84-17156 #

DOT/FAA/ACS-83-2(19) ..... 21 p3326 N84-31103 #

DOT/FAA/AP-83/3 ..... 06 p0785 N84-15139 #

DOT/FAA/CT-TN83/63 ..... 07 p0949 N84-16157 #

DOT/FAA/CT-82/97 ..... 01 p0008 N84-10046 #
DOT/FAA/CT-82/132 ..... 01 p0006 N84-10037* #
DOT/FAA/CT-82/149 ..... 07 p0981 N84-16354* #
DOT/FAA/CT-82/150 ..... 07 p0980 N84-16353* #
DOT/FAA/CT-83/21 ..... 07 p1036 N84-16718 #
DOT/FAA/CT-83/36 ..... 07 p0980 N84-16351* #
DOT/FAA/CT-83/44 ..... 01 p0006 N84-10035 #
DOT/FAA/CT-84/3 ..... 19 p2961 N84-28764 #
DOT/FAA/CT-84/7 ..... 22 p3538 N84-32400 #
DOT/FAA/CT-84/8 ..... 20 p3127 N84-29859 #

DOT/FAA/ES-83/3 ..... 07 p0993 N84-16441 #
DOT/FAA/ES-83/4 ..... 10 p1426 N84-19328 #
DOT/FAA/ES-83/5 ..... 10 p1426 N84-19324 #
DOT/FAA/ES-83/8 ..... 10 p1426 N84-19325 #
DOT/FAA/ES-83/10 ..... 10 p1426 N84-19326 #
DOT/FAA/ES-83/12 ..... 20 p3125 N84-29848 #
DOT/FAA/ES-84/1 ..... 17 p2605 N84-26689 #

DOT/FAA/PM-83/6 ..... 11 p1642 N84-20736 #
DOT/FAA/PM-83/17 ..... 12 p1768 N84-21531 #
DOT/FAA/PM-83/20 ..... 13 p2017 N84-23074 #
DOT/FAA/PM-83/21 ..... 19 p2961 N84-28768 #
DOT/FAA/PM-83/22 ..... 09 p1259 N84-18222 #
DOT/FAA/PM-83/25 ..... 17 p2607 N84-26699 #
DOT/FAA/PM-83/34 ..... 18 p2798 N84-27752 #
DOT/FAA/PM-83/36 ..... 13 p1929 N84-22548 #
DOT/FAA/PM-83/38 ..... 18 p2795 N84-27735 #
DOT/FAA/PM-83/39 ..... 12 p1768 N84-21530 #

DOT/FAA/PM-84-9.1 ..... 24 p3857 N84-34450 #
DOT/FAA/PM-84/2 ..... 17 p2611 N84-26715 #
DOT/FAA/PM-84/3 ..... 19 p3005 N84-29043 #
DOT/FAA/PM-84/6 ..... 17 p2654 N84-26973* #
DOT/FAA/PM-84/7 ..... 11 p1604 N84-20503 #
DOT/FAA/PM-84/8 ..... 22 p3538 N84-32400 #

DOT/FAA/RD-82/86 ..... 14 p2104 N84-23618 #

DOT/RSPA/DMA-50/82/20 ..... 01 p0164 N84-11076 #
DOT/RSPA/DMA-50/83/18 ..... 03 p0386 N84-12518 #
DOT/RSPA/DMA-50/84/4 ..... 15 p2344 N84-25073 #

DOT/RSPA/DMA/50/84/17 ..... 22 p3565 N84-32577 #

DOT/TSC/FAA-83-1 ..... 08 p1190 N84-17758 #

DP-MS-82-55 ..... 03 p0355 N84-12309 #
DP-MS-82-77 ..... 01 p0091 N84-10591 #
DP-MS-82-90 ..... 07 p0976 N84-16325 #
DP-MS-82-103 ..... 03 p0389 N84-12539 #
DP-MS-82-111 ..... 02 p0292 N84-11916 #
DP-MS-83-5 ..... 04 p0535 N84-13517 #
DP-MS-83-25 ..... 08 p1160 N84-17550 #
DP-MS-83-43 ..... 06 p0894 N84-15810 #
DP-MS-83-79 ..... 14 p2128 N84-23758 #
DP-MS-83-105 ..... 11 p1705 N84-21112 #
DP-MS-83-113 ..... 11 p1712 N84-21158 #
DP-MS-83-123 ..... 20 p3198 N84-30313 #
DP-MS-84-40 ..... 21 p3466 N84-31977 #

DP-1643 ..... 03 p0354 N84-12301 #
DP-1644 ..... 06 p0805 N84-15245 #
DP-1650 ..... 04 p0564 N84-13715 #
DP-1682 ..... 23 p3715 N84-33547 #

DPG-TR-83-401 ..... 04 p0567 N84-13739 #

DPHG/SAP-83-14R-PHG ..... 23 p3750 N84-33772* #

DPSPU-82-30-11 ..... 11 p1666 N84-20869 #

DPST-83-307 ..... 11 p1672 N84-20909 #
DPST-83-951 ..... 22 p3605 N84-32838 #
DPST-84-231 ..... 21 p3414 N84-31648 #

DR-1 ..... 01 p0060 N84-10393 #
DR-2 ..... 01 p0060 N84-10394 #
DR-3 ..... 22 p3601 N84-32808 #

DR/CG-152-83 ..... 06 p0793 N84-15170 #

DR/CWG-104-67 ..... 06 p0793 N84-15170 #

DRD-SE-2 ..... 23 p3786 N84-34015* #
DRD-SE-3 ..... 23 p3787 N84-34017* #
DRD-SE-5 ..... 19 p3050 N84-29353* #
DRD-SE-5 ..... 23 p3787 N84-34019* #

DRD-SE5 ..... 19 p3050 N84-29354* #
DRD-SE5 ..... 19 p3050 N84-29355* #
DRD-SE957T ..... 05 p0644 N84-14233* #

DRD-7 ..... 22 p3576 N84-32650* #
DRD-139 ..... 23 p3787 N84-34019* #

DREO-TN-82-41 ..... 10 p1470 N84-19599 #
DREO-TN-82-42 ..... 10 p1470 N84-19600 #
DREO-TN-83-3 ..... 13 p1929 N84-22547 #
DREO-TN-83-4 ..... 10 p1467 N84-19579 #
DREO-TN-83-18 ..... 09 p1318 N84-18609 #
DREO-TN-83-20 ..... 10 p1466 N84-19575 #
DREO-TN-83-21 ..... 10 p1466 N84-19574 #
DREO-TN-83-25 ..... 20 p3177 N84-30178 #
DREO-TN-83-34 ..... 15 p2304 N84-24825 #
DREO-TN-83-35 ..... 11 p1660 N84-20831 #
DREO-TN-83-36 ..... 11 p1646 N84-20764 #
DREO-TN-84-3 ..... 19 p3071 N84-29402 #

DREO-877 ..... 19 p3124 N84-29846 #

DREP-TM-83-22 ..... 12 p1789 N84-21665 #

DREP-82-3 ..... 01 p0095 N84-10620 #

DRES-SR-377 ..... 15 p2333 N84-25010 #

DRES-365 ..... 01 p0050 N84-10322 #

DREV-R-4278/82 ..... 04 p0563 N84-13711 #
DREV-R-4278/82 ..... 06 p0918 N84-15962 #

DREV-4287/83 ..... 04 p0521 N84-13425 #
DREV-4301/83 ..... 04 p0540 N84-13552 #
DREV-4310/83 ..... 08 p1124 N84-17308 #

DRIC-BR-84464 ..... 16 p2461 N84-25774 #
DRIC-BR-87739 ..... 08 p1211 N84-17897
DRIC-BR-89306 ..... 09 p1301 N84-18506 #
DRIC-BR-89505 ..... 10 p1451 N84-19473 #
DRIC-BR-90207 ..... 10 p1563 N84-20239 #
DRIC-BR-90954 ..... 16 p2442 N84-25668 #
DRIC-BR-91086 ..... 14 p2139 N84-23826 #
DRIC-BR-92075 ..... 22 p3600 N84-32806 #
DRIC-BR-92250 ..... 24 p3901 N84-34700 #
DRIC-BR-92280 ..... 23 p3711 N84-33526 #

DRIC-T-6898 ..... 15 p2318 N84-24915
DRIC-T-6921 ..... 09 p1361 N84-18893
DRIC-T-6968 ..... 04 p0547 N84-13602 #
DRIC-T-6974 ..... 03 p0385 N84-12508
DRIC-T-6998 ..... 15 p2403 N84-25421
DRIC-T-7008 ..... 15 p2389 N84-25332
DRIC-T-7014 ..... 09 p1328 N84-18673
DRIC-T-7042 ..... 15 p2295 N84-24770
DRIC-T-7073 ..... 15 p2348 N84-25076
DRIC-T-7133 ..... 15 p2300 N84-24803

DRL-T-1544-2 ..... 22 p3576 N84-32650* #
DRL-T-1701 ..... 05 p0644 N84-14233* #

DRL-018 ..... 19 p2985 N84-28915* #
DRL-125 ..... 23 p3786 N84-34015* #
DRL-126 ..... 23 p3789 N84-34028* #
DRL-156 ..... 18 p2869 N84-28213* #
DRL-156 ..... 18 p2869 N84-28214* #
DRL-157 ..... 23 p3787 N84-34017* #
DRL-162 ..... 23 p3789 N84-34032* #
DRL-175 ..... 23 p3789 N84-34031* #
DRL-198 ..... 19 p3049 N84-29351* #
DRL-203 ..... 19 p3050 N84-29354* #
DRL-203 ..... 19 p3050 N84-29355* #
DRL-206 ..... 19 p3050 N84-29353* #

DRSMC/SA/MR-1 ..... 05 p0735 N84-14828 #
DRSMC/SA/MR-2 ..... 07 p1067 N84-16824 #

DRSMI-RE-83-16-TR ..... 08 p1145 N84-17452 #

DRSMI/RD-CR-83-15 ..... 01 p0122 N84-10791 #
DRSMI/RD-CR-83-20 ..... 14 p2113 N84-23663 #
DRSMI/RD-CR-83-23 ..... 12 p1778 N84-21601 #

DRSMI/RD-82-2-TR ..... 02 p0218 N84-11427 #
DRSMI/RD-82-19-TR ..... 02 p0186 N84-11210 #
DRSMI/RD-83-11-TR ..... 06 p0793 N84-15169 #
DRSMI/RD-84-8-CR ..... 16 p2545 N84-26335 #

DRSMI/RE-83-6-TR ..... 05 p0738 N84-14847 #

DRSMI/RG-83-6 ..... 05 p0735 N84-14830 #
DRSMI/RG-83-13-TR ..... 07 p0950 N84-16161 #
DRSMI/RG-83-15-TR ..... 13 p2033 N84-23185 #
DRSMI/RG-83-16-TR ..... 12 p1768 N84-21532 #
DRSMI/RG-83-17-TR ..... 18 p2791 N84-27715 #
DRSMI/RG-84-6-TR ..... 16 p2446 N84-25689 #
DRSMI/RG-84-8-TR ..... 16 p2456 N84-25751 #

DRSMI/RH-CR-83-6 ..... 04 p0540 N84-13551 #

DRSMI/RH-83-4-TR ..... 09 p1322 N84-18635 #

DRSMI/RK-83-4 ..... 01 p0052 N84-10333 #

DRSMI/RL-CR-84-1 ..... 18 p2802 N84-27781 #
DRSMI/RL-CR-84-2 ..... 18 p2802 N84-27782 #

DRSMI/RR-CR-84-1 ..... 18 p2932 N84-28594 #

DRSMI/RR-83-2-TR ..... 05 p0709 N84-14645 #
DRSMI/RR-84-1-TR ..... 18 p2891 N84-28348 #
DRSMI/RR-84-2-TR ..... 16 p2463 N84-25786 #

DRSMI/RT-CR-83-2 ..... 12 p1773 N84-21563 #

DRXTH-TE-CR-83224 ..... 17 p2724 N84-27338 #

DS-83349 ..... 07 p0962 N84-16239 #

DST-2700Z-001-84 ..... 13 p1995 N84-22948 #

DSTZT-83-R-11 ..... 12 p1770 N84-21544 #
DSTZT-83-R-12 ..... 13 p1964 N84-22763 #

DT-8152-03 ..... 04 p0494 N84-13240 #
DT-8152-04 ..... 04 p0494 N84-13244 #

DTIC/TR-80/1 ..... 12 p1919 N84-22503 #
DTIC/TR-83/1 ..... 20 p3314 N84-31049 #
DTIC/TR-83/2-VOL-1 ..... 22 p3674 N84-33291 #
DTIC/TR-83/2-VOL-2 ..... 22 p3674 N84-33292 #
DTIC/TR-84/1 ..... 12 p1919 N84-22503 #

DTIC/TR-84/2 ..... 20 p3315 N84-31051 #
DTIC/TR-84/3 ..... 23 p3835 N84-34327 #
DTIC/TR-84/5 ..... 20 p3314 N84-31049 #
DTIC/TR-84/6-VOL-1 ..... 22 p3674 N84-33291 #
DTIC/TR-84/6-VOL-2 ..... 22 p3674 N84-33292 #
DTIC/TR-84/6-SUPPL-2 ..... 23 p3835 N84-34325 #

DTIC/TR/83/3-SUPPL-1 ..... 03 p0459 N84-13024 #

DTNSRDC-CMLD-83/27 ..... 10 p1564 N84-20244 #

DTNSRDC-HA84-1 ..... 15 p2257 N84-24558 #

DTNSRDC-PASD-CR-1-83 ..... 16 p2484 N84-25934 #

DTNSRDC-76/0043 ..... 23 p3693 N84-33404 #
DTNSRDC-82/119 ..... 06 p0852 N84-15556 #
DTNSRDC-83/048 ..... 06 p0798 N84-15204 #
DTNSRDC-83/053 ..... 02 p0269 N84-11762 #
DTNSRDC-83/055 ..... 01 p0079 N84-10515 #
DTNSRDC-83/067 ..... 15 p2333 N84-25009 #
DTNSRDC-83/070 ..... 09 p1313 N84-18582 #
DTNSRDC-83/071 ..... 06 p0844 N84-15506 #
DTNSRDC-83/075 ..... 08 p1227 N84-18020 #
DTNSRDC-83/081 ..... 10 p1422 N84-19296 #
DTNSRDC-83/102 ..... 17 p2667 N84-27009 #
DTNSRDC-84/004 ..... 12 p1822 N84-21881 #
DTNSRDC-84/009 ..... 16 p2499 N84-26033 #
DTNSRDC-84/011 ..... 14 p2206 N84-24238 #
DTNSRDC-84/027 ..... 20 p3152 N84-30018 #
DTNSRDC-84/034 ..... 20 p3184 N84-30231 #

DTNSRDC/AERO-1284 ..... 01 p0079 N84-10515 #

DTNSRDC/ASED-CR-1-83 ..... 03 p0320 N84-12096* #
DTNSRDC/ASED-CR-04-83 ..... 16 p2493 N84-25993 #

DTNSRDC/ASED-83/01 ..... 11 p1652 N84-20784 #
DTNSRDC/ASED-83/07 ..... 14 p2105 N84-23624 #
DTNSRDC/ASED-83/09 ..... 19 p2963 N84-28782 #
DTNSRDC/ASED-83/10 ..... 21 p3325 N84-31099 #
DTNSRDC/ASED-84/02 ..... 17 p2609 N84-26703 #
DTNSRDC/ASED-84/03 ..... 21 p3325 N84-31100 #

DTNSRDC/CID-84/1 ..... 19 p3086 N84-29591 #

DTNSRDC/CMLD-CR-53-84 ..... 22 p3529 N84-32345 #

DTNSRDC/CMLD-83-09 ..... 15 p2418 N84-25519 #
DTNSRDC/CMLD-83-13 ..... 01 p0122 N84-10797 #
DTNSRDC/CMLD-83-19 ..... 09 p1405 N84-19182 #
DTNSRDC/CMLD-83-20 ..... 03 p0423 N84-12768 #
DTNSRDC/CMLD-84-01 ..... 13 p2001 N84-22983 #
DTNSRDC/CMLD-84-05 ..... 19 p3077 N84-29522 #
DTNSRDC/CMLD-84-06 ..... 19 p3075 N84-29514 #

DTNSRDC/PAS-81-16 ..... 08 p1226 N84-18009 #
DTNSRDC/PAS-82-41 ..... 01 p0078 N84-10508 #
DTNSRDC/PAS-84-12 ..... 22 p3604 N84-32831 #

DTNSRDC/SME-CR-18-83-VOL-1 ..... 08 p1171 N84-17626 #
DTNSRDC/SME-CR-19-83-VOL-2 ..... 08 p1171 N84-17627 #
DTNSRDC/SME-CR-22-83 ..... 09 p1282 N84-18371 #

DTNSRDC/SME-83-65 ..... 10 p1460 N84-19532 #
DTNSRDC/SME-83-85 ..... 15 p2297 N84-24786 #
DTNSRDC/SME-83-104 ..... 20 p3153 N84-30023 #

DTR-2236 ..... 01 p0054 N84-10346 #

DYD-10892-CE ..... 02 p0212 N84-11388* #

DYTEC-8204-VOL-2 ..... 06 p0791 N84-15158 #

D4-T1 ..... 21 p3400 N84-31570 #
D6-IPAD-70016-D-1 ..... 19 p2963 N84-28776* #
D6-47113 ..... 10 p1419 N84-19261* #
D6-48673-VOL-1 ..... 19 p2967 N84-28802* #
D6-48679 ..... 18 p2792 N84-27720* #
D6-49352 ..... 18 p2796 N84-27744* #
D6-49356 ..... 18 p2792 N84-27723* #
D6-49360 ..... 18 p2786 N84-27685* #
D6-51141 ..... 19 p2963 N84-28777* #
D6-51146 ..... 19 p2967 N84-28804* #
D6-51280 ..... 15 p2259 N84-24567* #
D6-52046 ..... 21 p3364 N84-31343* #
D6-52134 ..... 04 p0479 N84-13153* #
D6-52135 ..... 11 p1600 N84-20479* #
D6-52329 ..... 19 p2958 N84-28749* #
D137 ..... 07 p1006 N84-16525* #
D180-24910-1 ..... 19 p2957 N84-28741* #
D180-24910-2 ..... 18 p2788 N84-27696* #
D180-24910-4 ..... 23 p3690 N84-33388* #
D180-24967-1 ..... 09 p1298 N84-18487 #
D180-25927-4 ..... 10 p1428 N84-19337 #
D180-26031-2 ..... 11 p1636 N84-20695* #
D180-27160-1 ..... 04 p0557 N84-13671* #
D180-27211-1-VOL-1 ..... 19 p3004 N84-29041 #
D180-27265-2 ..... 08 p1101 N84-17157 #
D180-27477-1-VOL-1 ..... 09 p1266 N84-18265* #
D180-27477-2-VOL-2 ..... 09 p1266 N84-18266* #
D180-27477-3-VOL-3 ..... 09 p1266 N84-18267* #
D180-27477-4-VOL-4 ..... 09 p1266 N84-18268* #
D180-27477-6 ..... 09 p1267 N84-18269* #
D180-27477-7-VOL-7-1 ..... 18 p2804 N84-27795* #
D180-27477-7-VOL-7-1 ..... 18 p2804 N84-27796* #
D180-27477-7-VOL-7-2 ..... 18 p2804 N84-27797* #
D180-27477-7-VOL-7-3 ..... 18 p2804 N84-27798* #
D180-27477-7-VOL-7-4A ..... 18 p2804 N84-27799* #
D180-27477-7-VOL-7-4B ..... 18 p2804 N84-27800* #
D180-27477-7-VOL-7-5A ..... 18 p2805 N84-27801* #
D180-27477-7-VOL-7-5B ..... 18 p2805 N84-27802* #
D180-27487-2-VOL-2 ..... 14 p2115 N84-23672* #
D180-27487-3-VOL-3 ..... 14 p2115 N84-23673* #
D180-27487-4 ..... 14 p2115 N84-23674* #
D180-27728-1 ..... 03 p0343 N84-12226* #
D180-27728-2 ..... 04 p0490 N84-13218* #
D180-27738-1 ..... 06 p0782 N84-15123* #
D180-27935-1 ..... 13 p1940 N84-22614* #
D180-27935-2-VOL-2 ..... 19 p2981 N84-28891* #
D180-27935-3 ..... 13 p1940 N84-22613* #
D180-27939-2 ..... 12 p1766 N84-21516* #
D180-27951-1 ..... 13 p2009 N84-23028* #
D465 ..... 10 p1495 N84-19773 #
D500-10379-1 ..... 12 p1779 N84-21606* #
D2536-941006 ..... 06 p0790 N84-15154* #
D2536-941007 ..... 02 p0231 N84-11514* #
D2536-941008 ..... 02 p0231 N84-11515* #
D2536-941009 ..... 05 p0631 N84-14148* #
D2536-941010 ..... 06 p0790 N84-15153* #
D844900 ..... 02 p0183 N84-11189* #

E&MA-82-176 ..... 03 p0347 N84-12253 #

E-219 ..... 19 p2966 N84-28795* #
E-311 ..... 23 p3790 N84-34038* #
E-789 ..... 12 p1917 N84-22488* #
E-1055 ..... 09 p1348 N84-18806* #
E-1296 ..... 20 p3195 N84-30294* #
E-1373 ..... 12 p1814 N84-21828* #
E-1496 ..... 02 p0180 N84-11171* #
E-1499 ..... 21 p3365 N84-31345* #
E-1532 ..... 01 p0141 N84-10923* #
E-1538-1 ..... 02 p0193 N84-11254* #
E-1559 ..... 14 p2152 N84-23891* #
E-1559 ..... 15 p2340 N84-25047* #
E-1583 ..... 04 p0543 N84-13577* #
E-1585 ..... 09 p1250 N84-18159* #
E-1615 ..... 19 p2993 N84-28965* #
E-1626 ..... 21 p3446 N84-31865* #
E-1632 ..... 01 p0009 N84-10055* #
E-1635 ..... 12 p1796 N84-21716* #
E-1650 ..... 07 p0997 N84-16461* #
E-1655 ..... 02 p0208 N84-11358* #
E-1681 ..... 01 p0102 N84-10665* #
E-1686 ..... 07 p1057 N84-16843* #
E-1700 ..... 06 p0829 N84-15394* #
E-1703 ..... 02 p0208 N84-11360* #
E-1705 ..... 06 p0907 N84-15894* #
E-1719 ..... 04 p0588 N84-13885* #
E-1720 ..... 07 p0977 N84-16334* #
E-1726 ..... 12 p1801 N84-21740* #
E-1735 ..... 12 p1771 N84-21549* #
E-1740 ..... 02 p0199 N84-11296* #
E-1746 ..... 08 p1156 N84-17525* #
E-1748 ..... 07 p0954 N84-16185* #
E-1751 ..... 09 p1325 N84-18654* #
E-1752 ..... 10 p1490 N84-19741* #
E-1754 ..... 07 p0953 N84-16181* #
E-1755 ..... 04 p0491 N84-13224* #
E-1760 ..... 03 p0418 N84-12730* #
E-1762 ..... 01 p0048 N84-10310* #
E-1768 ..... 09 p1286 N84-18399* #
E-1775 ..... 07 p0964 N84-16247* #
E-1776 ..... 04 p0557 N84-13670* #
E-1779 ..... 02 p0287 N84-11885* #
E-1781 ..... 05 p0742 N84-14874* #
E-1783 ..... 05 p0761 N84-14989* #
E-1784 ..... 02 p0241 N84-11579* #
E-1789 ..... 02 p0199 N84-11295* #
E-1793 ..... 12 p1810 N84-21803* #
E-1794 ..... 02 p0231 N84-11512* #
E-1795 ..... 08 p1130 N84-17350* #
E-1796 ..... 08 p1131 N84-17355* #
E-1797 ..... 02 p0228 N84-11498* #
E-1801 ..... 08 p1166 N84-17590* #
E-1803 ..... 02 p0279 N84-11831* #
E-1805 ..... 01 p0102 N84-10664* #
E-1806 ..... 19 p3031 N84-29226* #
E-1808 ..... 14 p2129 N84-23764* #
E-1810 ..... 05 p0652 N84-14288* #
E-1812 ..... 07 p1001 N84-16492* #

E-1813	02	p0186	N84-11206* #
E-1814	08	p1166	N84-17591* #
E-1817	12	p1797	N84-21721* #
E-1819	05	p0631	N84-14145* #
E-1823	03	p0352	N84-12287* #
E-1828	04	p0548	N84-13610* #
E-1829	15	p2260	N84-24578* #
E-1831	10	p1529	N84-20016* #
E-1834	10	p1476	N84-19640* #
E-1835	05	p0627	N84-14121* #
E-1841	09	p1272	N84-18310* #
E-1842	02	p0287	N84-11883* #
E-1843	04	p0594	N84-13922* #
E-1845	10	p1529	N84-20017* #
E-1846	09	p1324	N84-18653* #
E-1847	19	p2992	N84-28958* #
E-1852	05	p0691	N84-14541* #
E-1853	03	p0333	N84-12166* #
E-1854	09	p1281	N84-18370* #
E-1855	11	p1667	N84-20678* #
E-1855-1	05	p0692	N84-14542* #
E-1856	09	p1386	N84-19049* #
E-1857	02	p0229	N84-11500* #
E-1859	01	p0062	N84-10405* #
E-1860	02	p0222	N84-11456* #
E-1861	05	p0752	N84-14932* #
E-1862	19	p2997	N84-28990* #
E-1864	07	p1069	N84-16946* #
E-1867	04	p0517	N84-13399* #
E-1868	05	p0626	N84-14120* #
E-1869	08	p1222	N84-17982* #
E-1872	21	p3365	N84-31349* #
E-1873	06	p0854	N84-15565* #
E-1876	07	p0985	N84-16380* #
E-1877	08	p1130	N84-17352* #
E-1878	14	p2106	N84-23630* #
E-1879	10	p1575	N84-20320* #
E-1884	10	p1465	N84-19566* #
E-1885	22	p3546	N84-32446* #
E-1886	09	p1286	N84-18400* #
E-1888	11	p1614	N84-20562* #
E-1889	07	p1000	N84-16488* #
E-1890	04	p0595	N84-13924* #
E-1891	07	p1001	N84-16493* #
E-1894	04	p0498	N84-13264* #
E-1895	08	p1168	N84-17606* #
E-1897	04	p0517	N84-13400* #
E-1898	05	p0699	N84-14586* #
E-1899	17	p2675	N84-27041* #
E-1901	06	p0805	N84-15246* #
E-1902	05	p0688	N84-14519* #
E-1903	21	p3419	N84-31688* #
E-1904	10	p1465	N84-19567* #
E-1905	05	p0679	N84-14463* #
E-1906	07	p1001	N84-16494* #
E-1907	11	p1602	N84-20493* #
E-1909	04	p0485	N84-13188* #
E-1910	07	p1016	N84-16589* #
E-1912	05	p0631	N84-14146* #
E-1913	05	p0625	N84-14111* #
E-1914	05	p0652	N84-14289* #
E-1915	02	p0243	N84-11594* #
E-1916	07	p0954	N84-16186* #
E-1917	04	p0578	N84-13812* #
E-1918	10	p1502	N84-19816* #
E-1919	11	p1626	N84-20643* #
E-1920	17	p2722	N84-27327* #
E-1921	07	p1015	N84-16587* #
E-1922	04	p0532	N84-13494* #
E-1923	07	p1015	N84-16588* #
E-1925	07	p1052	N84-16812* #
E-1926	08	p1166	N84-17592* #
E-1927	07	p0962	N84-16234* #
E-1928	04	p0477	N84-13140* #
E-1930	14	p2141	N84-23841* #
E-1931	14	p2131	N84-23774* #
E-1933	05	p0631	N84-14147* #
E-1934	08	p1098	N84-17143* #
E-1936	04	p0485	N84-13190* #
E-1937	07	p0974	N84-16311* #
E-1938	08	p1130	N84-17351* #
E-1939	09	p1312	N84-18572* #
E-1940	07	p0954	N84-16184* #
E-1941	11	p1601	N84-20490* #
E-1942	08	p1131	N84-17354* #
E-1943	04	p0483	N84-13173* #
E-1947	11	p1632	N84-20673* #
E-1948	07	p0961	N84-16229* #
E-1949	21	p3413	N84-31640* #
E-1950	20	p3129	N84-29870* #
E-1951	07	p0947	N84-16142* #
E-1956	16	p2470	N84-25831* #
E-1958	08	p1098	N84-17142* #
E-1960	07	p0991	N84-16425* #
E-1962	16	p2553	N84-26383* #
E-1963	07	p0946	N84-16141* #
E-1964	09	p1330	N84-18683* #
E-1967	20	p3234	N84-30528* #
E-1968	12	p1771	N84-21548* #
E-1970	11	p1632	N84-20672* #
E-1972-PT-2	08	p1149	N84-17479* #
E-1973	10	p1498	N84-19787* #
E-1974	10	p1485	N84-19706* #
E-1975	08	p1157	N84-17533* #
E-1977	17	p2617	N84-26749* #
E-1982	10	p1516	N84-19925* #
E-1983	08	p1096	N84-17138* #
E-1984	16	p2498	N84-26029* #
E-1985	18	p2813	N84-27857* #
E-1986	20	p3161	N84-30072* #
E-1987	07	p0943	N84-16119* #
E-1990	10	p1476	N84-19641* #
E-1991	10	p1471	N84-19606* #
E-1992	12	p1797	N84-21719* #
E-1993	22	p3559	N84-32536* #
E-1994	16	p2569	N84-26484* #
E-1995	18	p2828	N84-27954* #
E-1996	15	p2284	N84-24712* #
E-1997	08	p1131	N84-17353* #
E-2000	13	p1942	N84-22631* #
E-2002	19	p2997	N84-28994* #
E-2004	11	p1664	N84-20658* #
E-2005	19	p3043	N84-29307* #
E-2007	14	p2118	N84-23691* #
E-2008	22	p3603	N84-32824* #
E-2009	17	p2622	N84-26783* #
E-2010	15	p2295	N84-24772* #
E-2012	10	p1587	N84-20404* #
E-2013	11	p1625	N84-20639* #
E-2015	15	p2361	N84-25166* #
E-2016	13	p2008	N84-23022* #
E-2017	13	p1955	N84-22712* #
E-2018	21	p3369	N84-31379* #
E-2019	11	p1736	N84-21329* #
E-2020	11	p1737	N84-21330* #
E-2021	12	p1907	N84-22421* #
E-2022	18	p2808	N84-27825* #
E-2023	10	p1566	N84-20258* #
E-2024	16	p2485	N84-25941* #
E-2025	10	p1566	N84-20259* #
E-2028	19	p2992	N84-28962* #
E-2029	13	p1932	N84-22565* #
E-2032	12	p1789	N84-21666* #
E-2033	12	p1800	N84-21739* #
E-2034	13	p1989	N84-22910* #
E-2036	23	p3723	N84-33590* #
E-2037	13	p2008	N84-23024* #
E-2039	12	p1815	N84-21832* #
E-2040	13	p1989	N84-22911* #
E-2041	13	p2008	N84-23023* #
E-2043	13	p1986	N84-22892* #
E-2044	16	p2438	N84-25644* #
E-2046	13	p1932	N84-22567* #
E-2047	13	p2040	N84-23235* #
E-2048	13	p1989	N84-22909* #
E-2049	22	p3603	N84-32825* #
E-2050	22	p3536	N84-32388* #
E-2051	13	p2008	N84-23026* #
E-2052	13	p2008	N84-23025* #
E-2053	15	p2343	N84-25064* #
E-2054	15	p2283	N84-24708 #
E-2056	19	p2992	N84-28963* #
E-2057	17	p2622	N84-26785* #
E-2058	16	p2459	N84-25762* #
E-2060	16	p2483	N84-25926* #
E-2061	13	p1960	N84-22735* #
E-2062	11	p1608	N84-20525* #
E-2063	21	p3365	N84-31348* #
E-2064	19	p2997	N84-28989* #
E-2065	13	p1932	N84-22564* #
E-2066	15	p2301	N84-24808* #
E-2067	12	p1818	N84-21849* #
E-2069	13	p1954	N84-22702* #
E-2070	15	p2335	N84-25017* #
E-2071	19	p2985	N84-28917* #
E-2072	16	p2481	N84-25908* #
E-2073	23	p3700	N84-33452* #
E-2074	14	p2157	N84-23923* #
E-2077	13	p1926	N84-22533* #
E-2078	13	p1925	N84-22527* #
E-2079	23	p3836	N84-34330* #
E-2080	21	p3390	N84-31512* #
E-2082	13	p1932	N84-22566* #
E-2083	18	p2817	N84-27887* #
E-2084	15	p2261	N84-24581* #
E-2085	15	p2331	N84-24999* #
E-2086	16	p2433	N84-25607* #
E-2089	21	p3408	N84-32169* #
E-2090	14	p2118	N84-23690* #
E-2091	13	p1985	N84-22890* #
E-2092	17	p2626	N84-26803* #
E-2093	13	p1940	N84-22615* #

E-2094 ..... 12 p1921 N84-22512* #
E-2095 ..... 14 p2249 N84-24509* #
E-2096 ..... 13 p1966 N84-22891* #
E-2098 ..... 15 p2262 N84-24589* #
E-2099 ..... 15 p2335 N84-25019* #
E-2100 ..... 16 p2466 N84-25943* #
E-2103 ..... 17 p2675 N84-27042* #
E-2104 ..... 16 p2450 N84-25712* #
E-2105 ..... 14 p2118 N84-23693* #
E-2108 ..... 19 p3034 N84-29248* #
E-2110 ..... 13 p2008 N84-23027* #
E-2111 ..... 15 p2261 N84-24583* #
E-2112 ..... 16 p2439 N84-25647* #
E-2113 ..... 16 p2470 N84-25830* #
E-2114 ..... 23 p3821 N84-34231* #
E-2116 ..... 18 p2813 N84-27858* #
E-2117 ..... 18 p2813 N84-27859* #
E-2118 ..... 17 p2675 N84-27043* #
E-2120 ..... 19 p3034 N84-29247* #
E-2121 ..... 21 p3433 N84-31782* #
E-2122 ..... 22 p3542 N84-32426* #
E-2123 ..... 15 p2262 N84-24585* #
E-2124 ..... 16 p2464 N84-25793* #
E-2128 ..... 14 p2109 N84-23648* #
E-2131 ..... 19 p3049 N84-29347* #
E-2132 ..... 19 p3096 N84-29661* #
E-2133 ..... 15 p2261 N84-24584* #
E-2137 ..... 16 p2433 N84-25605* #
E-2138 ..... 15 p2261 N84-24582* #
E-2139 ..... 16 p2457 N84-25753* #
E-2140 ..... 15 p2261 N84-24579* #
E-2144 ..... 17 p2616 N84-26746* #
E-2146 ..... 19 p2965 N84-28918* #
E-2148 ..... 16 p2495 N84-26010* #
E-2150 ..... 22 p3531 N84-32357* #
E-2152 ..... 16 p2460 N84-25770* #
E-2153 ..... 17 p2623 N84-26787* #
E-2154 ..... 18 p2809 N84-27832* #
E-2155 ..... 15 p2255 N84-24539* #
E-2157 ..... 19 p2965 N84-28791* #
E-2158 ..... 17 p2618 N84-26755* #
E-2159 ..... 18 p2809 N84-27831* #
E-2160 ..... 17 p2618 N84-26756* #
E-2161 ..... 15 p2331 N84-25000* #
E-2162 ..... 16 p2486 N84-25946* #
E-2166 ..... 16 p2460 N84-25766* #
E-2167 ..... 20 p3195 N84-30293* #
E-2168 ..... 16 p2450 N84-25713* #
E-2169 ..... 16 p2433 N84-25606* #
E-2170 ..... 18 p2807 N84-27824* #
E-2173 ..... 19 p3031 N84-29223* #
E-2175 ..... 20 p3200 N84-30329* #
E-2180 ..... 16 p2459 N84-25764* #
E-2182 ..... 22 p3575 N84-32644* #
E-2185 ..... 22 p3606 N84-32849* #
E-2187 ..... 18 p2849 N84-28087* #
E-2190 ..... 19 p3031 N84-29224* #
E-2192 ..... 18 p2849 N84-28088* #
E-2196 ..... 23 p3694 N84-33414* #
E-2200 ..... 23 p3726 N84-33608* #
E-2202 ..... 22 p3531 N84-32355* #
E-2203 ..... 21 p3356 N84-31288* #
E-2205 ..... 19 p2965 N84-28790* #
E-2207 ..... 20 p3183 N84-30223* #
E-2210 ..... 19 p3021 N84-29157* #
E-2213 ..... 22 p3555 N84-32508* #
E-2216 ..... 22 p3529 N84-32344* #
E-2217 ..... 20 p3183 N84-30224* #
E-2218 ..... 20 p3130 N84-29678* #
E-2222 ..... 21 p3419 N84-31683* #
E-2223 ..... 21 p3365 N84-31344* #
E-2226 ..... 20 p3130 N84-29676* #
E-2227 ..... 21 p3382 N84-31460* #
E-2228 ..... 22 p3558 N84-32531* #
E-2230 ..... 24 p3688 N84-34619* #
E-2232 ..... 21 p3419 N84-31687* #
E-2233 ..... 21 p3490 N84-32118* #
E-2234 ..... 24 p3888 N84-34620* #
E-2235 ..... 24 p3881 N84-34589* #
E-2236 ..... 20 p3173 N84-30147* #
E-2237 ..... 21 p3398 N84-31558* #
E-2241 ..... 20 p3192 N84-30273* #
E-2243 ..... 21 p3390 N84-31513* #
E-2244 ..... 21 p3355 N84-31283* #
E-2246 ..... 21 p3324 N84-31091* #
E-2247 ..... 20 p3172 N84-30146* #
E-2250 ..... 21 p3491 N84-32122* #
E-2251 ..... 23 p3713 N84-33536* #
E-2257 ..... 23 p3821 N84-34230* #
E-2259 ..... 22 p3543 N84-32427* #
E-2260 ..... 23 p3717 N84-33564* #
E-2261 ..... 21 p3354 N84-31272* #
E-2263 ..... 21 p3325 N84-31096* #
E-2266 ..... 21 p3382 N84-31461* #
E-2269 ..... 21 p3365 N84-31347* #
E-2272 ..... 22 p3530 N84-32351* #
E-2274 ..... 22 p3597 N84-32783* #
E-2276 ..... 24 p3883 N84-34603* #
E-2281 ..... 22 p3598 N84-32789* #
E-2284 ..... 23 p3711 N84-33522* #
E-2285 ..... 23 p3730 N84-33642* #
E-2290 ..... 24 p3911 N84-34769* #
E-2292 ..... 22 p3540 N84-32411* #
E-2299 ..... 24 p3961 N84-35085* #
E-2307 ..... 24 p3878 N84-34576* #
E-2470 ..... 16 p2473 N84-25854* #

EA-83-U-143 ..... 11 p1604 N84-20507 #

EAI-TR-79-004 ..... 13 p1938 N84-22602* #

EAS-E-4/82 ..... 01 p0053 N84-10340 #

EBT-3 ..... 09 p1351 N84-18829* #

ECAC-TR-83-003 ..... 09 p1304 N84-18525 #

ECE-83-6 ..... 09 p1318 N84-18608 #

ED-AX-316 ..... 08 p1161 N84-17559* #

ED-80-292 ..... 12 p1782 N84-21630 #
ED-80-295 ..... 12 p1778 N84-21605 #
ED-81-343/RD ..... 09 p1334 N84-18712 #

EDE-1/84 ..... 14 p2148 N84-23868 #

EDR-11443 ..... 06 p0852 N84-15554* #
EDR-11577 ..... 18 p2849 N84-28089* #

EEB-L-83-05 ..... 03 p0419 N84-12738 #

EEB-VENT-83-22 ..... 23 p3812 N84-34170 #

EEB-W-84-04 ..... 20 p3311 N84-31029 #

EECS-TR-82-7 ..... 02 p0284 N84-11859 #

EER/TR-11-83 ..... 05 p0704 N84-14622 #

EERL-82-02 ..... 16 p2493 N84-25998 #
EERL-82-03 ..... 16 p2478 N84-25887 #

EES101 ..... 09 p1399 N84-19138 #

EGG-CSH-6223 ..... 01 p0080 N84-10518 #

EGG-FT-6111 ..... 01 p0151 N84-10992 #

EGG-GTH-6477 ..... 11 p1674 N84-20921 #
EGG-GTH-6658 ..... 23 p3791 N84-34043 #

EGG-IS-6281 ..... 02 p0274 N84-11791 #
EGG-IS-6281-REV-1 ..... 11 p1708 N84-21136 #
EGG-IS-6319 ..... 02 p0274 N84-11794 #
EGG-IS-6511 ..... 11 p1710 N84-21144 #

EGG-M-00383 ..... 04 p0537 N84-13531 #
EGG-M-01284 ..... 21 p3519 N84-32294 #
EGG-M-01784 ..... 21 p3519 N84-32295 #
EGG-M-04383 ..... 01 p0082 N84-10531 #
EGG-M-04883 ..... 06 p0804 N84-15240 #
EGG-M-05183 ..... 11 p1661 N84-20838 #
EGG-M-05283 ..... 21 p3415 N84-31657 #
EGG-M-06084 ..... 20 p3274 N84-30787 #
EGG-M-06683 ..... 03 p0438 N84-12873 #
EGG-M-08584 ..... 22 p3675 N84-33300 #
EGG-M-09983 ..... 01 p0051 N84-10328 #
EGG-M-11584 ..... 21 p3423 N84-31714 #
EGG-M-11684 ..... 21 p3414 N84-31649 #
EGG-M-16983 ..... 11 p1634 N84-20680 #
EGG-M-17882 ..... 02 p0269 N84-11763 #
EGG-M-18083 ..... 04 p0499 N84-13273 #
EGG-M-21683 ..... 21 p3361 N84-31321 #
EGG-M-22783 ..... 13 p1994 N84-22940 #
EGG-M-30282 ..... 02 p0274 N84-11789 #

EGG-PBS-6579 ..... 21 p3401 N84-31576 #

EGG-SAAM-6398 ..... 04 p0534 N84-13511 #
EGG-SAAM-6474 ..... 11 p1709 N84-21143 #

EGG-SCM-6567 ..... 21 p3362 N84-31328 #
EGG-SCM-6572 ..... 20 p3164 N84-30092 #
EGG-SCM-6577 ..... 21 p3372 N84-31396 #
EGG-SCM-6595 ..... 22 p3557 N84-32523 #

EGG-SE-6367 ..... 12 p1802 N84-21748 #
EGG-SE-6442 ..... 15 p2365 N84-25189 #
EGG-SE-6451 ..... 10 p1494 N84-19766 #

EGG-WM-6627 ..... 21 p3519 N84-32291 #

EGG-10282-1004 ..... 04 p0554 N84-13650 #
EGG-10282-1019 ..... 12 p1819 N84-21856 #
EGG-10282-2013 ..... 15 p2408 N84-25456 #

EHL(W)-TR-83-08 ..... 12 p1866 N84-22157 #
EHL(W)-TR-83-13 ..... 12 p1865 N84-22154 #

EL-RIN-207 ..... 22 p3626 N84-32979 #

EL-TR-84-13 ..... 20 p3172 N84-30145* #

ELSR-84-7 ..... 16 p2481 N84-25909* #

EML-420 ..... 09 p1418 N84-19276 #

EMORY/DC/TR-83/1 ..... 01 p0083 N84-10542 #

EMRL-89 ..... 12 p1797 N84-21723 #

EMSB-12/83 ..... 12 p1782 N84-21627 #
EMSB-18/83 ..... 06 p0795 N84-15182 #

ENDF-3311 ..... 16 p2566 N84-26465 #

ENST-C-83001 ..... 07 p1056 N84-16842 #
ENST-C-83004 ..... 15 p2390 N84-25338 #

ENST-D-8303 ..... 16 p2542 N84-26314 #

ENST-E-83008 ..... 07 p1064 N84-16903 #
ENST-E-83009 ..... 09 p1366 N84-18916 #
ENST-E-83010 ..... 10 p1482 N84-19689 #
ENST-E-83013 ..... 16 p2544 N84-26331 #

ENST-83E017 ..... 19 p3113 N84-29781 #
ENST-84C001 ..... 19 p3094 N84-29653 #
ENST-84E002 ..... 19 p3010 N84-29083 #

EO/MO-6 ..... 05 p0747 N84-14903 #

EOARD-TR-83-4 ..... 06 p0873 N84-15683 #
EOARD-TR-83-6 ..... 06 p0843 N84-15502 #
EOARD-TR-83-7 ..... 06 p0782 N84-15125 #
EOARD-TR-83-11 ..... 01 p0162 N84-11063 #
EOARD-TR-83-14 ..... 06 p0892 N84-15794 #
EOARD-TR-84-05 ..... 09 p1394 N84-19104 #
EOARD-TR-84-06 ..... 12 p1821 N84-21868 #
EOARD-TR-84-08-VOL-1 ..... 21 p3436 N84-31799 #
EOARD-TR-84-08-VOL-2 ..... 21 p3436 N84-31800 #
EOARD-TR-84-09 ..... 15 p2379 N84-25279 #
EOARD-TR-84-11 ..... 17 p2623 N84-26791 #
EOARD-TR-84-11-1 ..... 15 p2257 N84-24557 #
EOARD-TR-84-11-2 ..... 15 p2302 N84-24816 #
EOARD-TR-84-11-3 ..... 18 p2851 N84-28101 #
EOARD-TR-84-12 ..... 15 p2368 N84-25209 #
EOARD-TR-84-13 ..... 15 p2257 N84-24559 #
EOARD-TR-84-14 ..... 15 p2257 N84-24560 #
EOARD-TR-84-16 ..... 19 p3029 N84-29208 #
EOARD-TR-84-19 ..... 23 p3811 N84-34167 #
EOARD-TR-84-20 ..... 24 p3900 N84-34699 #

EOSL-PUBL-84-001 ..... 23 p3824 N84-34253* #

EPA-AA-CTAB-TA-83-2 ..... 03 p0385 N84-12506 #

EPA-AA-CTAB/TA-83-5 ..... 02 p0230 N84-11506 #
EPA-AA-CTAB/TA-83-6 ..... 08 p1167 N84-17599 #

EPA-AA-EOD-ES-83/1 ..... 04 p0539 N84-13546 #

EPA-AA-TEB-511-83-1 ..... 01 p0163 N84-11073 #
EPA-AA-TEB-511-83-11 ..... 12 p1921 N84-22514 #
EPA-AA-TEB-511-84-4 ..... 01 p0163 N84-11072 #

EPA-AA-TSS-83-10 ..... 20 p3238 N84-30559 #

EPA-IMSD-84-1 ..... 21 p3520 N84-32304 #

EPA-68-03-3089 ..... 12 p1799 N84-21736 #
EPA-450/3-82-018 ..... 04 p0561 N84-13696 #
EPA-450/4-83-021 ..... 09 p1343 N84-18771 #
EPA-450/4-84-007A ..... 22 p3619 N84-32934 #
EPA-450/4-84-007BA ..... 22 p3620 N84-32936 #
EPA-450/4-84-007C ..... 22 p3619 N84-32935 #
EPA-450/5-82-007 ..... 08 p1184 N84-17711 #
EPA-460/3-83-001 ..... 01 p0164 N84-11074 #
EPA-460/3-83-004 ..... 09 p1291 N84-18426 #
EPA-460/3-83-005 ..... 03 p0385 N84-12507 #
EPA-460/3-83-010 ..... 11 p1639 N84-20715 #
EPA-520/5-83-014 ..... 08 p1183 N84-17709 #
EPA-520/5-83-015 ..... 08 p1184 N84-17710 #
EPA-520/5-83-016 ..... 08 p1183 N84-17708 #
EPA-520/5-83-024 ..... 16 p2520 N84-26177 #
EPA-560/5-83-004-VOL-1 ..... 11 p1630 N84-20665 #
EPA-560/7-84-001 ..... 21 p3520 N84-32301 #
EPA-600/D-81-266 ..... 02 p0267 N84-11754 #
EPA-600/D-82-026 ..... 10 p1533 N84-20038 #
EPA-600/D-83-062 ..... 02 p0265 N84-11743 #
EPA-600/D-83-070 ..... 14 p2177 N84-24042 #
EPA-600/D-83-078 ..... 01 p0112 N84-10731 #
EPA-600/D-83-079 ..... 01 p0106 N84-10691 #
EPA-600/D-83-082 ..... 01 p0115 N84-10744 #
EPA-600/D-83-084 ..... 06 p0802 N84-15229 #
EPA-600/D-83-085 ..... 01 p0115 N84-10743 #
EPA-600/D-83-087 ..... 01 p0051 N84-10331 #
EPA-600/D-83-091 ..... 03 p0414 N84-12711 #
EPA-600/D-83-092 ..... 04 p0561 N84-13699 #
EPA-600/D-83-101 ..... 04 p0560 N84-13694 #
EPA-600/D-83-105 ..... 04 p0573 N84-13775 #
EPA-600/D-83-108 ..... 04 p0573 N84-13774 #
EPA-600/D-84-025 ..... 11 p1676 N84-20940 #
EPA-600/D-84-028 ..... 09 p1319 N84-18618 #
EPA-600/D-84-033 ..... 12 p1885 N84-22289 #
EPA-600/D-84-055 ..... 14 p2124 N84-23733 #
EPA-600/D-84-058 ..... 16 p2511 N84-26114 #
EPA-600/D-84-059 ..... 16 p2511 N84-26115 #
EPA-600/D-84-060 ..... 15 p2302 N84-24818 #
EPA-600/D-84-081 ..... 15 p2367 N84-25200 #
EPA-600/D-84-083 ..... 15 p2367 N84-25201 #
EPA-600/D-84-092 ..... 17 p2620 N84-26768 #
EPA-600/D-84-098 ..... 20 p3230 N84-30525 #
EPA-600/D-84-124 ..... 22 p3631 N84-33008 #
EPA-600/D-84-126 ..... 22 p3631 N84-33009 #
EPA-600/D-84-141 ..... 21 p3326 N84-31101 #
EPA-600/D-84-155 ..... 21 p3437 N84-31806 #
EPA-600/D-84-157 ..... 22 p3615 N84-32906 #
EPA-600/D-84-165 ..... 22 p3627 N84-32981 #
EPA-600/D-84-166 ..... 22 p3626 N84-32980 #
EPA-600/D-068 ..... 15 p2288 N84-24730 #
EPA-600/E-84-125 ..... 22 p3631 N84-33010 #
EPA-600/1-83-008 ..... 01 p0115 N84-10746 #
EPA-600/2-83-018 ..... 01 p0115 N84-10747 #
EPA-600/2-83-036 ..... 01 p0058 N84-10377 #
EPA-600/2-83-042 ..... 01 p0058 N84-10378 #
EPA-600/2-83-087 ..... 05 p0682 N84-14483 #
EPA-600/2-83-102 ..... 12 p1846 N84-22032 #
EPA-600/2-83-116 ..... 08 p1105 N84-17187 #
EPA-600/2-84-025 ..... 12 p1804 N84-21764 #
EPA-600/2-84-077 ..... 16 p2520 N84-26178 #
EPA-600/2-84-082 ..... 16 p2519 N84-26174 #
EPA-600/2-84-087 ..... 20 p3265 N84-30719 #
EPA-600/3-83-003 ..... 08 p1184 N84-17712 #
EPA-600/3-83-041 ..... 01 p0103 N84-10672 #
EPA-600/3-83-053 ..... 04 p0561 N84-13698 #
EPA-600/3-83-056 ..... 03 p0378 N84-12460 #
EPA-600/3-83-058 ..... 02 p0222 N84-11455 #
EPA-600/3-83-059 ..... 01 p0047 N84-10302 #
EPA-600/3-83-070 ..... 18 p2929 N84-28572 #
EPA-600/3-83-072 ..... 20 p3229 N84-30524 #
EPA-600/3-83-106 ..... 08 p1184 N84-17713 #
EPA-600/3-84-031 ..... 12 p1799 N84-21736 #
EPA-600/3-84-032 ..... 12 p1795 N84-21704 #
EPA-600/3-84-038 ..... 14 p2182 N84-24072 #
EPA-600/3-84-044 ..... 14 p2182 N84-24075 #
EPA-600/3-84-061 ..... 20 p3238 N84-30556 #
EPA-600/3-84-062 ..... 20 p3151 N84-30012 #
EPA-600/4-83-034 ..... 03 p0378 N84-12461 #
EPA-600/4-83-035 ..... 02 p0257 N84-11680 #
EPA-600/4-84-011 ..... 14 p2124 N84-23730 #
EPA-600/4-84-014 ..... 12 p1866 N84-22161 #
EPA-600/4-84-019 ..... 22 p3599 N84-32797 #
EPA-600/4-84-026 ..... 16 p2463 N84-25788 #
EPA-600/4-84-030 ..... 17 p2672 N84-27032 #
EPA-600/4-84-033 ..... 21 p3363 N84-31333 #
EPA-600/4-84-034 ..... 20 p3239 N84-30580 #
EPA-600/4-84-049 ..... 22 p3565 N84-32579 #
EPA-600/4-84-050 ..... 22 p3599 N84-32798 #
EPA-600/6-83-001 ..... 01 p0115 N84-10749 #
EPA-600/7-83-050 ..... 04 p0560 N84-13695 #
EPA-600/7-84-023 ..... 17 p2723 N84-27334 #
EPA-600/7-84-069A-VOL-1 ..... 22 p3549 N84-32469 #
EPA-600/7-84-069B-VOL-2 ..... 22 p3549 N84-32470 #
EPA-600/8-83-026A-PT-1/2/3 ..... 05 p0714 N84-14680 #
EPA-600/8-84-007 ..... 15 p2338 N84-25035 #
EPA-600/9-83-007 ..... 12 p1845 N84-22031 #
EPA-600/9-84-002 ..... 12 p1794 N84-21703 #
EPA-600/9-84-010 ..... 20 p3239 N84-30562 #
EPA-830/83-022 ..... 11 p1677 N84-20941 #
EPA-4900198 ..... 07 p1027 N84-16658 #

EPFL/LTA-TM-3-84 ..... 20 p3131 N84-29880 #
EPFL/LTA-TM-83-2 ..... 20 p3196 N84-30297 #

EPL-83-3/ONR-83-3 ..... 05 p0715 N84-14685 #
EPL-83-5/ONR-83-5 ..... 10 p1554 N84-20182 #
EPL-83-6/ONR-83-6 ..... 10 p1554 N84-20183 #
EPL-84-2/ONR-84-1 ..... 19 p3070 N84-29480 #

EPOCS/CONTRIB-841 ..... 21 p3451 N84-31900 #

EPRI-CS-2984 ..... 01 p0045 N84-10292 #
EPRI-CS-3098 ..... 03 p0377 N84-12456 #

EPRI-EA-3133	03	p0401	N84-12620	#
EPRI-EA-3356-VOL-1	20	p3238	N84-30557	#
EPRI-EA-3466	21	p3448	N84-31879	#
EPRI-EL-3004	01	p0073	N84-10476	#
EPRI-EL-3089-VOL-1	02	p0274	N84-11793	#
EPRI-EL-3140	02	p0215	N84-11407	#
EPRI-EM-2995	20	p3237	N84-30548	#
EPRI-NP-2641	01	p0097	N84-10630	#
EPRI-NP-2650	01	p0044	N84-10285	#
EPRI-NP-3005	01	p0048	N84-10307	#
EPRI-NP-3047	02	p0191	N84-11241	#
EPRI-NP-3058	01	p0045	N84-10287	#
EPRI-NP-3060	01	p0045	N84-10286	#
ER-RP-A1-002-VOL-1	16	p2456	N84-25747	#
ER-591	11	p1731	N84-21290*	#
ER-599A	13	p1939	N84-22608*	#
ER-2273-8	06	p1161	N84-17556*	#
ER-8162-F	16	p2450	N84-25711*	#
ERA-81-109	16	p2461	N84-25774	#
ERA-82-22	13	p1985	N84-22688	
ERA-82-91	13	p1999	N84-22967	
ERA-82-136	13	p1999	N84-22968	
ERA-83-0056	23	p3732	N84-33655	#
ERADCOM/ASL-CR-83-0100-3	06	p0918	N84-15964	#
ERADCOM/ASL-CR-84-0206-1	17	p2734	N84-27380	#
ERADCOM/ASL-TR-0130	05	p0706	N84-14642	#
ERADCOM/ASL-TR-0134	05	p0747	N84-14906	#
ERC-RP-200-DS-009-VOL-1	08	p1141	N84-17423	#
ERC-RP-200-DS-009-VOL-2	08	p1141	N84-17424	#
ERC-TR-83020	10	p1529	N84-20014*	#
ERC-TR-83024	21	p3390	N84-31514*	#
ERD-81-159	04	p0565	N84-13723	#
ERI-171	12	p1809	N84-21791	#
ERIM-16400-10-P	15	p2357	N84-25140*	#
ERIM-150000-11-F	17	p2711	N84-27258*	#
ERIM-155500-2-F	01	p0100	N84-10652	#
ERIM-155900-15-T	12	p1636	N84-21971	#
ERIM-155900-16-T	17	p2721	N84-27320	#
ERIM-155900-17-T	20	p3251	N84-30633	#
ERIM-160300-76-F	16	p2506	N84-26098*	#
ERIM-163000-2-F	19	p3041	N84-29296	#
ERIM-163100-7-F	09	p1337	N84-18726	#
ERIM-163200-3-F	02	p0236	N84-11551*	#
ERIM-163500-4-T	20	p3228	N84-30514	#
ERIM-163800-2-T	11	p1643	N84-20744	#
ERIM-164000-8-P	07	p1020	N84-16615*	#
ERIM-166500-1-L	01	p0099	N84-10642*	#
ERL-0265-TR	01	p0147	N84-10968	#
ERL-0285-TR	21	p3465	N84-31969	#
ERL-0286-TM	23	p3813	N84-34175	#
ERL-0295-TM	17	p2604	N84-26684	#
ERLN-X95	12	p1885	N84-22289	#
ERNO-RX-015-2/83	23	p3697	N84-33427	#
ERP-825	16	p2521	N84-26185	#
ERSO-110-79-4	01	p0058	N84-10379	#
ERT-B195F	05	p0698	N84-14582	#
ERS3-4203	10	p1500	N84-19805	#
ESA-BR-12	20	p3199	N84-30317	#
ESA-BR-14	09	p1273	N84-18315	#
ESA-BR-15	09	p1362	N84-18900	#
ESA-BR-16	09	p1272	N84-18308	#
ESA-BR-18	16	p2509	N84-26102	#
ESA-BR-19	20	p3132	N84-29890	#
ESA-BR-20	23	p3785	N84-34003	#
ESA-CR(P)-784	10	p1528	N84-20012*	#
ESA-CR(P)-1182	09	p1277	N84-18338*	#
ESA-CR(P)-1575-ANNEX	02	p0210	N84-11376	#
ESA-CR(P)-1767	06	p0796	N84-15186	#
ESA-CR(P)-1769	07	p1023	N84-16637	#
ESA-CR(P)-1770	06	p0795	N84-15182	#
ESA-CR(P)-1772	06	p0853	N84-15562	#
ESA-CR(P)-1773	07	p0999	N84-16482	#
ESA-CR(P)-1777	09	p1334	N84-18712	#
ESA-CR(P)-1778	09	p1289	N84-18416	#
ESA-CR(P)-1779-VOL-1	12	p1782	N84-21624	#
ESA-CR(P)-1779-VOL-2	12	p1782	N84-21625	#
ESA-CR(P)-1779-VOL-3	12	p1780	N84-21611	#
ESA-CR(P)-1779-VOL-4	12	p1780	N84-21616	#
ESA-CR(P)-1779-VOL-5	12	p1781	N84-21620	#
ESA-CR(P)-1783	09	p1324	N84-18648	#
ESA-CR(P)-1787	09	p1273	N84-18314	#
ESA-CR(P)-1788	08	p1191	N84-17765	#
ESA-CR(P)-1790-VOL-1	08	p1120	N84-17282	#
ESA-CR(P)-1790-VOL-2	08	p1120	N84-17283	#
ESA-CR(P)-1791	06	p0853	N84-15563	#
ESA-CR(P)-1792-VOL-1	08	p1147	N84-17463	#
ESA-CR(P)-1792-VOL-2	08	p1147	N84-17464	#
ESA-CR(P)-1793-VOL-1	08	p1147	N84-17465	#
ESA-CR(P)-1793-VOL-2	08	p1147	N84-17466	#
ESA-CR(P)-1794	08	p1113	N84-17241	#
ESA-CR(P)-1796	08	p1120	N84-17284	#
ESA-CR(P)-1797	08	p1120	N84-17285	#
ESA-CR(P)-1801-VOL-1	08	p1153	N84-17505	#
ESA-CR(P)-1801-VOL-2	08	p1153	N84-17506	#
ESA-CR(P)-1803-VOL-1	12	p1776	N84-21588	#
ESA-CR(P)-1803-VOL-2	12	p1776	N84-21589	#
ESA-CR(P)-1805	08	p1113	N84-17242	#
ESA-CR(P)-1807	08	p1113	N84-17243	#
ESA-CR(P)-1809	08	p1162	N84-17569	#
ESA-CR(P)-1810	08	p1179	N84-17683	#
ESA-CR(P)-1812-VOL-1	08	p1141	N84-17423	#
ESA-CR(P)-1812-VOL-2	08	p1141	N84-17424	#
ESA-CR(P)-1813-VOL-1	08	p1153	N84-17507	#
ESA-CR(P)-1813-VOL-2	08	p1153	N84-17508	#
ESA-CR(P)-1817	09	p1263	N84-18246	#
ESA-CR(P)-1818	12	p1884	N84-22283	#
ESA-CR(P)-1820	12	p1794	N84-21700	#
ESA-CR(P)-1822	12	p1837	N84-21974	#
ESA-CR(P)-1825	12	p1884	N84-22284	#
ESA-CR(P)-1826	12	p1782	N84-21626	#
ESA-CR(P)-1827-VOL-1	12	p1825	N84-21894	#
ESA-CR(P)-1827-VOL-2	12	p1825	N84-21895	#
ESA-CR(P)-1829	12	p1782	N84-21629	#
ESA-CR(P)-1830	12	p1782	N84-21627	#
ESA-CR(P)-1831-VOL-1	12	p1809	N84-21791	#
ESA-CR(P)-1831-VOL-2	12	p1809	N84-21792	#
ESA-CR(P)-1832-VOL-1	13	p2017	N84-23080	#
ESA-CR(P)-1832-VOL-2	13	p2018	N84-23081	#
ESA-CR(P)-1833	12	p1809	N84-21793	#
ESA-CR(P)-1834-VOL-2	12	p1809	N84-21794	#
ESA-CR(P)-1835	12	p1803	N84-21757	#
ESA-CR(P)-1836	12	p1782	N84-21630	#
ESA-CR(P)-1837	12	p1778	N84-21605	#
ESA-CR(P)-1838	12	p1790	N84-21675	#
ESA-CR(P)-1839	12	p1809	N84-21795	#
ESA-CR(P)-1840-VOL-1	12	p1809	N84-21796	#
ESA-CR(P)-1840-VOL-2	12	p1809	N84-21797	#
ESA-CR(P)-1842	12	p1776	N84-21591	#
ESA-CR(P)-1845	12	p1809	N84-21798	#
ESA-CR(P)-1847	12	p1782	N84-21628	#
ESA-CR(P)-1848	16	p2484	N84-25928	#
ESA-CR(P)-1849-VOL-1	16	p2456	N84-25747	#
ESA-CR(P)-1859	16	p2474	N84-25856	#
ESA-CR(P)-1861-PT-2	16	p2475	N84-25866	#
ESA-CR(P)-1862-VOL-1	16	p2552	N84-26376	#
ESA-CR(P)-1862-VOL-2	16	p2553	N84-26379	#
ESA-CR(P)-1862-VOL-3	16	p2553	N84-26377	#
ESA-CR(P)-1864	16	p2496	N84-26018	#
ESA-CR(P)-1866	19	p2982	N84-28898	#
ESA-CR(P)-1867	16	p2509	N84-26103	#
ESA-CR(P)-1868	16	p2529	N84-26237	#
ESA-CR(P)-1869	16	p2482	N84-25913	#
ESA-CR(P)-1871	18	p2921	N84-28527	#
ESA-CR(P)-1872	19	p2983	N84-28903	#
ESA-CR(P)-1873	18	p2807	N84-27822	#
ESA-CR(P)-1877	17	p2673	N84-27035	#
ESA-CR(P)-1881	17	p2616	N84-26744	#
ESA-CR(P)-1882-VOL-1	17	p2614	N84-26735	#
ESA-CR(P)-1882-VOL-2	17	p2614	N84-26736	#
ESA-CR(P)-1883	17	p2615	N84-26737	#
ESA-CR(P)-1884	17	p2617	N84-26747	#
ESA-CR(P)-1885	23	p3697	N84-33427	#
ESA-CR(P)-1886	23	p3697	N84-33429	#
ESA-CR(P)-1887	23	p3839	N84-34354	#
ESA-CR(P)-1888	23	p3784	N84-34002	#
ESA-CR(P)-1890	23	p3758	N84-33820	#
ESA-CR(P)-1891	23	p3701	N84-33459	#
ESA-CR(P)-1894-PT-1	23	p3697	N84-33428	#
ESA-CR(P)-1898-VOL-1	24	p3867	N84-34505	#
ESA-CR(P)-1898-VOL-2	23	p3702	N84-33464	#
ESA-CR(P)-1899	23	p3732	N84-33655	#
ESA-CR(P)-1900	23	p3699	N84-33448	#
ESA-CR(P)-1901	23	p3700	N84-33449	#
ESA-CR(P)-1902	23	p3752	N84-33789	#
ESA-CR(P)-1903	23	p3732	N84-33656	#
ESA-CR(P)-1904-VOL-1	23	p3697	N84-33430	#
ESA-CR(P)-1904-VOL-2	23	p3697	N84-33431	#
ESA-ESTL-54	06	p0853	N84-15562	#
ESA-ESTL-55	06	p0853	N84-15563	#

ESA-ESTL-57	23	p3758	N84-33820	#
ESA-PSS-01-0-ISSUE-1	16	p2499	N84-26034	#
ESA-PSS-01-10-ISSUE-1	16	p2499	N84-26035	#
ESA-PSS-01-20-ISSUE-1	16	p2499	N84-26036	#
ESA-PSS-01-21-ISSUE-1	16	p2500	N84-26037	#
ESA-PSS-01-30-ISSUE-1	16	p2500	N84-26038	#
ESA-PSS-01-40-ISSUE-1	16	p2500	N84-26039	#
ESA-PSS-01-60-ISSUE-1	16	p2458	N84-25760	#
ESA-PSS-01-70-ISSUE-2	16	p2500	N84-26040	#
ESA-PSS-01-101-ISSUE-1	16	p2500	N84-26041	#
ESA-PSS-01-201-ISSUE-1	16	p2475	N84-25867	#
ESA-PSS-01-202-ISSUE-1	16	p2475	N84-25868	#
ESA-PSS-01-203-ISSUE-1	16	p2500	N84-26042	#
ESA-PSS-01-301-ISSUE-1	16	p2484	N84-25930	#
ESA-PSS-01-603-ISSUE-1	16	p2475	N84-25869	#
ESA-PSS-01-608-ISSUE-1	16	p2484	N84-25931	#
ESA-PSS-01-702-ISSUE-1	16	p2500	N84-26043	#
ESA-PSS-01-703-ISSUE-1	16	p2465	N84-25798	#
ESA-PSS-01-704-ISSUE-1	16	p2500	N84-26044	#
ESA-PSS-01-705-ISSUE-1	16	p2462	N84-25780	#
ESA-PSS-01-706-ISSUE-1	16	p2555	N84-26393	#
ESA-PSS-01-707	20	p3182	N84-30215	#
ESA-PSS-01-711-ISSUE-1	16	p2496	N84-26013	#
ESA-PSS-01-712-ISSUE-1	16	p2472	N84-25846	#
ESA-PSS-01-713-ISSUE-1	16	p2472	N84-25847	#
ESA-PSS-01-716-ISSUE-1	16	p2500	N84-26046	#
ESA-PSS-01-721-ISSUE-1	16	p2483	N84-25787	#
ESA-PSS-01-722-ISSUE-1	16	p2500	N84-26047	#
ESA-PSS-01-725-ISSUE-1	16	p2472	N84-25848	#
ESA-PSS-01-726-ISSUE-1	16	p2485	N84-25937	#
ESA-PSS-01-727-ISSUE-1	16	p2473	N84-25849	#
ESA-PSS-01-728-ISSUE-1	16	p2477	N84-25881	#
ESA-PSS-01-732-ISSUE-1	16	p2477	N84-25882	#
ESA-PSS-01-733-ISSUE-1	16	p2473	N84-25850	#
ESA-PSS-01-734-ISSUE-1	16	p2471	N84-25834	#
ESA-PSS-01-735-ISSUE-1	16	p2471	N84-25835	#
ESA-PSS-01-736-ISSUE-1	16	p2465	N84-25799	#
ESA-PSS-01-737-ISSUE-1	16	p2465	N84-25800	#
ESA-SP-105	16	p2567	N84-26470	#
ESA-SP-188	03	p0395	N84-12579	#
ESA-SP-195	05	p0634	N84-14172	#
ESA-SP-196	09	p1294	N84-18454	#
ESA-SP-197	03	p0339	N84-12197	#
ESA-SP-198	08	p1115	N84-17253	#
ESA-SP-199	05	p0721	N84-14729	#
ESA-SP-200	10	p1439	N84-19396	#
ESA-SP-201	09	p1407	N84-19196	#
ESA-SP-202	24	p3903	N84-34715	#
ESA-SP-203	23	p3807	N84-34138	#
ESA-SP-205	08	p1174	N84-17650	#
ESA-SP-215-VOL-1	23	p3764	N84-33857	#
ESA-SP-215-VOL-2	23	p3777	N84-33946*	#
ESA-SP-218	24	p3970	N84-35135	#
ESA-SP-219	17	p2612	N84-26719	#
ESA-SP-1046	15	p2424	N84-25563	#
ESA-SP-1048	09	p1405	N84-19179	#
ESA-SP-1050	09	p1260	N84-18227	#
ESA-SP-1052-PT-1	16	p2576	N84-26531	#
ESA-SP-1053	12	p1776	N84-21590	#
ESA-SP-1060	18	p2946	N84-28680	#
ESA-SP-1061	19	p2979	N84-28885	#
ESA-SP-1062	17	p2774	N84-27611	#
ESA-SP-1063	15	p2371	N84-25224	#
ESA-SP-1067	23	p3804	N84-34118	#
ESA-STM-232	23	p3701	N84-33460	#
ESA-STM-233	23	p3832	N84-34306	#
ESA-STR-208	20	p3135	N84-29904	#
ESA-STR-209	12	p1778	N84-21604	#
ESA-STR-211	03	p0342	N84-12220	#
ESA-STR-212	23	p3720	N84-33585	#
ESA-TT-737	16	p2482	N84-25914	#
ESA-TT-744	10	p1423	N84-19307	#
ESA-TT-746	16	p2539	N84-26299	#
ESA-TT-747	16	p2482	N84-25915	#
ESA-TT-749	16	p2544	N84-26333	#
ESA-TT-757	16	p2557	N84-26403	#
ESA-TT-759	04	p0478	N84-13143	#
ESA-TT-767	16	p2465	N84-25801	#
ESA-TT-768	06	p0902	N84-15855	#
ESA-TT-771	04	p0593	N84-13916	#
ESA-TT-773	16	p2496	N84-26014	#
ESA-TT-774	16	p2440	N84-25652	#
ESA-TT-776	16	p2456	N84-25749	#
ESA-TT-778	06	p0845	N84-15512	#
ESA-TT-781	04	p0477	N84-13141	#
ESA-TT-782	16	p2482	N84-25916	#
ESA-TT-783	16	p2539	N84-26300	#
ESA-TT-785	04	p0477	N84-13142	#
ESA-TT-789	03	p0443	N84-12907	#
ESA-TT-790	03	p0402	N84-12629	#
ESA-TT-791	03	p0382	N84-12490	#
ESA-TT-794	06	p0848	N84-15529	#
ESA-TT-799	13	p1998	N84-22955	#
ESA-TT-800	13	p1935	N84-22588	#
ESA-TT-801	04	p0515	N84-13382	#
ESA-TT-802	03	p0343	N84-12224	#
ESA-TT-804	16	p2497	N84-26022	#
ESA-TT-805	03	p0362	N84-12356	#
ESA-TT-806	16	p2487	N84-25953	#
ESA-TT-807	13	p2010	N84-23034	#
ESA-TT-808	03	p0412	N84-12695	#
ESA-TT-809	03	p0362	N84-12357	#
ESA-TT-810	16	p2440	N84-25653	#
ESA-TT-811	16	p2496	N84-26015	#
ESA-TT-812	06	p0905	N84-15875	#
ESA-TT-814	03	p0429	N84-12810	#
ESA-TT-815	16	p2440	N84-25654	#
ESA-TT-816	16	p2509	N84-26104	#
ESA-TT-817	08	p1226	N84-18013	#
ESA-TT-818	03	p0330	N84-12153	#
ESA-TT-819	16	p2509	N84-26105	#
ESA-TT-820	16	p2450	N84-25715	#
ESA-TT-821	16	p2554	N84-26385	#
ESA-TT-822	08	p1226	N84-18014	#
ESA-TT-823	13	p1935	N84-22589	#
ESA-TT-827	03	p0376	N84-12449	#
ESA-TT-830	02	p0211	N84-11379	#
ESA-TT-832	05	p0687	N84-14514	#
ESA-TT-832	19	p3030	N84-29221	#
ESA-TT-833	07	p1011	N84-16558	#
ESA-TT-834	19	p2959	N84-28757	#
ESA-TT-835	08	p1096	N84-17123	#
ESA-TT-836	15	p2402	N84-25419	#
ESA-TT-837	07	p1075	N84-16089	#
ESA-TT-839	09	p1334	N84-18711	#
ESA-TT-841	16	p2476	N84-25870	#
ESA-TT-842	07	p0983	N84-16240	#
ESA-TT-842	19	p2980	N84-28889	#
ESA-TT-843	20	p3321	N84-31083	#
ESA-TT-844	10	p1579	N84-20347	#
ESA-TT-845	10	p1483	N84-19696	#
ESA-TT-846	10	p1526	N84-20000	#
ESA-TT-847	10	p1426	N84-19329	#
ESA-TT-848	10	p1483	N84-19695	#
ESA-TT-849	10	p1452	N84-19480	#
ESA-TT-850	10	p1495	N84-19775	#
ESA-TT-851	12	p1909	N84-22434	#
ESA-TT-852	15	p2259	N84-24570	#
ESA-TT-853	16	p2486	N84-25948	#
ESA-TT-854	15	p2255	N84-24541	#
ESA-TT-856	15	p2396	N84-25375	#
ESA-TT-857	17	p2743	N84-27418	#
ESA-TT-858	20	p3125	N84-29850	#
ESA-TT-859	15	p2339	N84-25039	#
ESA-TT-862	16	p2454	N84-25735	#
ESA-TT-863	16	p2488	N84-25956	#
ESA-TT-864	17	p2724	N84-27336	#
ESA-TT-865	16	p2554	N84-26386	#
ESA-TT-866	16	p2488	N84-25957	#
ESA-TT-867	16	p2451	N84-25720	#
ESA-TT-868	16	p2482	N84-25781	#
ESA-TT-869	16	p2462	N84-25782	#
ESA-TT-870	16	p2554	N84-26387	#
ESA-TT-871	16	p2560	N84-26422	#
ESA-TT-873	16	p2549	N84-26361	#
ESA-TT-874	16	p2539	N84-26301	#
ESA-TT-876	16	p2487	N84-25954	#
ESA-TT-877	16	p2487	N84-25955	#
ESA-TT-880	16	p2449	N84-25709	#
ESA-TT-881	16	p2488	N84-25959	#
ESA-TT-883	18	p2837	N84-28010	#
ESA-TT-885	18	p2789	N84-27701	#
ESA-TT-886	18	p2791	N84-27716	#
ESA-TT-887	18	p2796	N84-27742	#
ESA-TT-888	20	p3128	N84-29862	#
ESA-TT-889	20	p3187	N84-30252	#
ESD-TR-82-178	01	p0119	N84-10771	#
ESD-TR-83-012	01	p0083	N84-10416	#
ESD-TR-83-013	02	p0281	N84-11841	#
ESD-TR-83-017	02	p0273	N84-11786	#
ESD-TR-83-018	01	p0103	N84-10670	#
ESD-TR-83-020	01	p0140	N84-10919	#
ESD-TR-83-021	01	p0049	N84-10319	#
ESD-TR-83-022	05	p0642	N84-14224	#
ESD-TR-83-023	01	p0131	N84-10856	#
ESD-TR-83-024	01	p0072	N84-10472	#
ESD-TR-83-027	04	p0521	N84-13421	#
ESD-TR-83-028	06	p0909	N84-15903	#
ESD-TR-83-029	07	p1081	N84-17028	#
ESD-TR-83-031	03	p0360	N84-12343	#
ESD-TR-83-033	05	p0668	N84-14391	#
ESD-TR-83-035	09	p1302	N84-18511	#
ESD-TR-83-037	05	p0668	N84-14393	#
ESD-TR-83-038	04	p0521	N84-13422	#
ESD-TR-83-039	06	p0823	N84-15366	#
ESD-TR-83-042	08	p1144	N84-17447	#

ESD-TR-83-045 ..... 09 p1254 N84-18187 #
ESD-TR-83-047 ..... 07 p0994 N84-16443 #
ESD-TR-83-049 ..... 10 p1478 N84-19661 #
ESD-TR-83-051 ..... 15 p2413 N84-25488 #
ESD-TR-83-053 ..... 08 p1145 N84-17454 #
ESD-TR-83-054 ..... 10 p1481 N84-19678 #
ESD-TR-83-060 ..... 09 p1346 N84-18792 #
ESD-TR-83-061 ..... 09 p1303 N84-18520 #
ESD-TR-83-066 ..... 24 p3967 N84-35118 #
ESD-TR-83-070 ..... 10 p1436 N84-19387 #
ESD-TR-83-071 ..... 11 p1644 N84-20746 #
ESD-TR-83-104 ..... 15 p2329 N84-24987 #
ESD-TR-83-106 ..... 10 p1479 N84-19664 #
ESD-TR-83-107 ..... 11 p1660 N84-20833 #
ESD-TR-83-109 ..... 10 p1569 N84-20279 #
ESD-TR-83-110 ..... 14 p2176 N84-24035 #
ESD-TR-83-191-VOL-1 ..... 09 p1398 N84-19128 #
ESD-TR-83-201 ..... 18 p2833 N84-27984 #
ESD-TR-83-202 ..... 06 p0823 N84-15368 #
ESD-TR-83-205 ..... 08 p1210 N84-17891 #
ESD-TR-83-209 ..... 09 p1368 N84-18929 #
ESD-TR-83-214 ..... 10 p1564 N84-20247 #
ESD-TR-83-219 ..... 10 p1482 N84-19683 #
ESD-TR-83-222 ..... 13 p1982 N84-22668 #
ESD-TR-83-223 ..... 21 p3504 N84-32204 #
ESD-TR-83-224 ..... 18 p2917 N84-28497 #
ESD-TR-83-225 ..... 15 p2321 N84-24937 #
ESD-TR-83-226 ..... 14 p2141 N84-23837 #
ESD-TR-83-227 ..... 11 p1643 N84-20745 #
ESD-TR-83-228 ..... 17 p2653 N84-26968 #
ESD-TR-83-230 ..... 13 p1982 N84-22871 #
ESD-TR-83-238 ..... 14 p2151 N84-23885 #
ESD-TR-83-241 ..... 13 p2047 N84-23282 #
ESD-TR-83-245 ..... 15 p2398 N84-25389 #
ESD-TR-83-253 ..... 12 p1805 N84-21769 #
ESD-TR-83-255 ..... 16 p2565 N84-26457 #
ESD-TR-84-005 ..... 18 p2829 N84-27963 #
ESD-TR-84-011 ..... 21 p3348 N84-31241 #
ESD-TR-84-013 ..... 21 p3492 N84-32127 #
ESD-TR-84-014 ..... 24 p3894 N84-34662 #
ESD-TR-84-015 ..... 24 p3963 N84-35098 #
ESD-TR-84-019 ..... 24 p3898 N84-34681 #
ESD-TR-84-150 ..... 15 p2392 N84-25354 #
ESD-TR-84-158 ..... 18 p2943 N84-28664 #
ESD-TR-84-160 ..... 17 p2753 N84-27477 #
ESD-TR-84-165 ..... 24 p3902 N84-34711 #
ESD-TR-84-169 ..... 20 p3174 N84-30154 #
ESD-TR-84-170 ..... 18 p2932 N84-28593 #
ESD-TR-197 ..... 05 p0674 N84-14429 #

ESDU-80023 ..... 07 p1014 N84-16577
ESDU-81006 ..... 07 p1014 N84-16578
ESDU-81029 ..... 07 p1014 N84-16579
ESDU-81041 ..... 07 p1015 N84-16581
ESDU-81047 ..... 07 p1014 N84-16580
ESDU-82022 ..... 07 p1011 N84-16559

ESG-DOE-13407 ..... 04 p0603 N84-13984 #
ESG-DOE-13408 ..... 04 p0603 N84-13979 #
ESG-DOE-13414 ..... 08 p1231 N84-18045 #

ESL-TR-83-72 ..... 14 p2151 N84-23885 #

ESL-123 ..... 20 p3241 N84-30579 #
ESL-126 ..... 21 p3444 N84-31853 #
ESL-714-258-1 ..... 09 p1309 N84-18560 #
ESL-710816-13 ..... 09 p1300 N84-18500 #
ESL-710816-15 ..... 16 p2485 N84-25936 #
ESL-710816-16 ..... 23 p3821 N84-34229 #
ESL-711679-10 ..... 01 p0121 N84-10790 #
ESL-712661-4 ..... 05 p0669 N84-14400 #
ESL-712673-1 ..... 07 p1075 N84-16985* #
ESL-712692-3 ..... 09 p1300 N84-18497 #
ESL-712693-1 ..... 17 p2653 N84-26971 #
ESL-713402-7 ..... 12 p1811 N84-21804 #
ESL-713533-4 ..... 14 p2113 N84-23662* #
ESL-713671-2-VOL-1 ..... 06 p0825 N84-15380 #
ESL-713774-2 ..... 01 p0067 N84-10566 #
ESL-714215-2 ..... 06 p0823 N84-15365 #
ESL-714215-3 ..... 02 p0209 N84-11362 #
ESL-714258-2 ..... 06 p0824 N84-15373 #
ESL-714505-3 ..... 04 p0521 N84-13427 #
ESL-714505-5 ..... 09 p1298 N84-18489 #
ESL-714505-6 ..... 07 p0993 N84-16434 #
ESL-714505-7 ..... 07 p0993 N84-16435 #
ESL-716111-1 ..... 15 p2320 N84-24924* #

ESMC-TR-83-04 ..... 04 p0490 N84-13217 #
ESMC-TR-83-06 ..... 05 p0642 N84-14226 #
ESMC-TR-83-07 ..... 05 p0668 N84-14392 #
ESMC-TR-83-08 ..... 05 p0642 N84-14225 #
ESMC-TR-84-02 ..... 19 p3059 N84-29406 #

ESN-37-7 ..... 05 p0759 N84-14979 #
ESN-37-8 ..... 05 p0759 N84-14977 #
ESN-37-9 ..... 06 p0935 N84-16079 #
ESN-37-10/11 ..... 07 p1084 N84-17053 #
ESN-37-12 ..... 09 p1404 N84-19173 #
ESN-38-1 ..... 10 p1598 N84-20472 #
ESN-38-2 ..... 11 p1746 N84-21394 #
ESN-38-3 ..... 12 p1918 N84-22498 #
ESN-38-4 ..... 15 p2416 N84-25506 #
ESN-38-5 ..... 21 p3518 N84-32285 #
ESN-38-6 ..... 19 p3116 N84-29801 #
ESN-38-7 ..... 22 p3674 N84-33287 #
ESN-38-8 ..... 24 p3995 N84-35284 #

ETC-81-50 ..... 12 p1801 N84-21746 #

ETL-R-059 ..... 16 p2510 N84-26109 #
ETL-R-060 ..... 16 p2511 N84-26112 #
ETL-R-061 ..... 16 p2510 N84-26108 #
ETL-R-062 ..... 16 p2510 N84-26111 #
ETL-R-063 ..... 16 p2510 N84-26110 #

ETL-R048 ..... 09 p1300 N84-18498 #
ETL-R050 ..... 09 p1337 N84-18730 #
ETL-R051 ..... 09 p1349 N84-18812 #
ETL-R052 ..... 10 p1595 N84-20452 #
ETL-R053 ..... 10 p1436 N84-19388 #
ETL-R054 ..... 09 p1389 N84-19070 #

ETL-836 ..... 13 p2046 N84-23277 #
ETL-0295 ..... 08 p1213 N84-17913 #
ETL-0303 ..... 01 p0100 N84-10651 #
ETL-0313 ..... 01 p0084 N84-10544 #
ETL-0322 ..... 02 p0277 N84-11812 #
ETL-0326 ..... 08 p1177 N84-17672 #
ETL-0330 ..... 08 p1143 N84-17438 #
ETL-0331 ..... 04 p0520 N84-13419 #
ETL-0333 ..... 08 p1178 N84-17676 #
ETL-0335 ..... 12 p1879 N84-22246 #
ETL-0337 ..... 08 p1177 N84-17670 #
ETL-0341 ..... 08 p1178 N84-17675 #
ETL-0342 ..... 15 p2336 N84-25027 #
ETL-0345 ..... 08 p1231 N84-18048 #
ETL-0347 ..... 19 p3078 N84-29527 #
ETL-0348 ..... 16 p2510 N84-26107 #
ETL-0349 ..... 20 p3267 N84-30726 #
ETL-0350 ..... 19 p3041 N84-29297 #
ETL-0353-SUPPL-12 ..... 19 p3041 N84-29298 #
ETL-0354 ..... 21 p3431 N84-31768 #
ETL-0357 ..... 20 p3228 N84-30511* #
ETL-0359 ..... 22 p3614 N84-32900 #

ETS-RR-83-26-ONR ..... 06 p0891 N84-15791 #
ETS-RR-83-28-ONR ..... 05 p0739 N84-14853 #
ETS-RR-84-13-ONR ..... 20 p3263 N84-30699 #

ETS-68 ..... 14 p2176 N84-24035 #
ETS-69 ..... 09 p1346 N84-18792 #
ETS-70 ..... 10 p1436 N84-19387 #
ETS-71 ..... 09 p1303 N84-18520 #
ETS-72 ..... 11 p1660 N84-20833 #

EUR-7435 ..... 17 p2622 N84-26781
EUR-7614 ..... 17 p2622 N84-26780
EUR-7988E ..... 07 p1005 N84-16518 #
EUR-8357 ..... 24 p3912 N84-34777 #
EUR-8589-EN ..... 09 p1405 N84-19179 #

EUT-82-E-127 ..... 10 p1489 N84-19735 #
EUT-82-E-128-PT-1 ..... 10 p1566 N84-20260 #
EUT-82-E-129-PT-2 ..... 10 p1566 N84-20261 #
EUT-82-E-130 ..... 10 p1565 N84-20254 #
EUT-82-E-131 ..... 10 p1566 N84-20262 #
EUT-82-E-132 ..... 10 p1483 N84-19698 #
EUT-83-E-133 ..... 13 p2048 N84-23289 #
EUT-83-E-134 ..... 10 p1590 N84-20420 #
EUT-83-E-135 ..... 10 p1568 N84-20271 #
EUT-83-E-136 ..... 10 p1427 N84-19330 #
EUT-83-E-137 ..... 10 p1489 N84-19736 #
EUT-83-E-138 ..... 10 p1574 N84-20315 #
EUT-83-E-139 ..... 10 p1587 N84-20400 #
EUT-83-E-140 ..... 10 p1484 N84-19699 #
EUT-83-E-141 ..... 10 p1489 N84-19737 #
EUT-83-E-142 ..... 10 p1484 N84-19700 #

EVT-825 ..... 12 p1794 N84-21700 #

EW-L4-04452 ..... 12 p1829 N84-21926* #

EW-U2-04243 ..... 10 p1521 N84-19959* #
EW-U2-04244 ..... 10 p1521 N84-19960* #

E84-10001 ..... 02 p0235 N84-11543* #
E84-10002 ..... 04 p0551 N84-13627* #
E84-10003 ..... 02 p0235 N84-11544* #
E84-10004 ..... 02 p0235 N84-11545* #
E84-10005 ..... 02 p0235 N84-11546* #
E84-10006 ..... 03 p0392 N84-12555* #
E84-10007 ..... 01 p0099 N84-10641* #

E84-10008 ..... 01 p0099 N84-10642* #
E84-10009 ..... 02 p0236 N84-11547* #
E84-10010 ..... 02 p0236 N84-11548* #
E84-10011 ..... 02 p0236 N84-11549* #
E84-10012 ..... 02 p0236 N84-11550* #
E84-10013 ..... 02 p0236 N84-11551* #
E84-10014 ..... 02 p0236 N84-11552* #
E84-10015 ..... 02 p0237 N84-11553* #
E84-10016 ..... 03 p0392 N84-12556* #
E84-10017 ..... 02 p0237 N84-11554* #
E84-10018 ..... 02 p0237 N84-11555* #
E84-10019 ..... 02 p0237 N84-11556* #
E84-10020 ..... 01 p0099 N84-10643* #
E84-10021 ..... 02 p0237 N84-11557* #
E84-10022 ..... 01 p0099 N84-10644* #
E84-10023 ..... 02 p0237 N84-11558* #
E84-10024 ..... 22 p3613 N84-32892* #
E84-10025 ..... 02 p0238 N84-11559* #
E84-10026 ..... 02 p0238 N84-11560* #
E84-10027 ..... 01 p0099 N84-10645* #
E84-10028 ..... 02 p0238 N84-11561* #
E84-10029 ..... 01 p0099 N84-10646* #
E84-10030 ..... 01 p0100 N84-10647* #
E84-10031 ..... 02 p0238 N84-11562* #
E84-10032 ..... 03 p0392 N84-12557* #
E84-10033 ..... 03 p0395 N84-12576* #
E84-10034 ..... 04 p0551 N84-13628* #
E84-10035 ..... 06 p0864 N84-15626* #
E84-10036 ..... 04 p0551 N84-13629* #
E84-10037 ..... 04 p0551 N84-13630* #
E84-10038 ..... 04 p0551 N84-13631* #
E84-10039 ..... 04 p0551 N84-13632* #
E84-10040 ..... 04 p0551 N84-13633* #
E84-10041 ..... 04 p0552 N84-13634* #
E84-10042 ..... 04 p0552 N84-13635* #
E84-10043 ..... 04 p0552 N84-13636* #
E84-10044 ..... 04 p0552 N84-13637* #
E84-10045 ..... 04 p0552 N84-13638* #
E84-10046 ..... 04 p0553 N84-13639* #
E84-10047 ..... 04 p0553 N84-13640* #
E84-10048 ..... 04 p0553 N84-13641* #
E84-10049 ..... 04 p0553 N84-13642* #
E84-10050 ..... 04 p0553 N84-13643* #
E84-10051 ..... 05 p0695 N84-14583*
E84-10052 ..... 05 p0696 N84-14572* #
E84-10053 ..... 05 p0697 N84-14573* #
E84-10054 ..... 05 p0697 N84-14574* #
E84-10055 ..... 06 p0864 N84-15627* #
E84-10056 ..... 21 p3426 N84-31731* #
E84-10057 ..... 06 p0864 N84-15628* #
E84-10058 ..... 07 p1020 N84-16615* #
E84-10059 ..... 06 p0864 N84-15629* #
E84-10060 ..... 06 p0864 N84-15630* #
E84-10061 ..... 06 p0864 N84-15631* #
E84-10062 ..... 10 p1520 N84-19953* #
E84-10063 ..... 06 p0865 N84-15632* #
E84-10064 ..... 06 p0865 N84-15633* #
E84-10065 ..... 06 p0865 N84-15634* #
E84-10066 ..... 06 p0865 N84-15635* #
E84-10067 ..... 06 p0865 N84-15636* #
E84-10068 ..... 06 p0865 N84-15637* #
E84-10069 ..... 07 p1020 N84-16616* #
E84-10070 ..... 07 p1020 N84-16617* #
E84-10071 ..... 07 p1020 N84-16618* #
E84-10072 ..... 07 p1020 N84-16619* #
E84-10073 ..... 07 p1020 N84-16620* #
E84-10074 ..... 07 p1021 N84-16621* #
E84-10075 ..... 07 p1021 N84-16622* #
E84-10076 ..... 07 p1021 N84-16623* #
E84-10077 ..... 07 p1021 N84-16624* #
E84-10078 ..... 07 p1021 N84-16625* #
E84-10079 ..... 07 p1022 N84-16626* #
E84-10080 ..... 07 p1022 N84-16627* #
E84-10081 ..... 08 p1173 N84-17641* #
E84-10082 ..... 07 p1022 N84-16628* #
E84-10083 ..... 10 p1520 N84-19954* #
E84-10084 ..... 10 p1520 N84-19955* #
E84-10085 ..... 10 p1520 N84-19956* #
E84-10086 ..... 10 p1521 N84-19957* #
E84-10087 ..... 10 p1521 N84-19958* #
E84-10088 ..... 10 p1521 N84-19959* #
E84-10089 ..... 10 p1521 N84-19960* #
E84-10090 ..... 10 p1521 N84-19961* #
E84-10091 ..... 10 p1522 N84-19962* #
E84-10092 ..... 10 p1522 N84-19963* #
E84-10093 ..... 10 p1522 N84-19964* #
E84-10094 ..... 13 p2003 N84-22997* #
E84-10095 ..... 10 p1522 N84-19965* #
E84-10096 ..... 10 p1522 N84-19966* #
E84-10097 ..... 12 p1828 N84-21917* #
E84-10098 ..... 13 p2004 N84-23000* #
E84-10099 ..... 12 p1828 N84-21918* #
E84-10100 ..... 13 p2004 N84-23003* #
E84-10101 ..... 12 p1828 N84-21919* #
E84-10102 ..... 12 p1828 N84-21920* #
E84-10103 ..... 12 p1829 N84-21921* #
E84-10104 ..... 12 p1829 N84-21922* #
E84-10105 ..... 12 p1829 N84-21923* #
E84-10106 ..... 12 p1829 N84-21924* #
E84-10107 ..... 12 p1829 N84-21925* #
E84-10108 ..... 12 p1829 N84-21926* #
E84-10109 ..... 12 p1829 N84-21927* #
E84-10110 ..... 12 p1830 N84-21928* #
E84-10111 ..... 13 p2004 N84-23004* #
E84-10112 ..... 13 p2005 N84-23005* #
E84-10113 ..... 13 p2005 N84-23006* #
E84-10114 ..... 13 p2005 N84-23007* #
E84-10115 ..... 13 p2005 N84-23008* #
E84-10116 ..... 14 p2167 N84-23976* #
E84-10117 ..... 14 p2167 N84-23977* #
E84-10118 ..... 14 p2167 N84-23978* #
E84-10119 ..... 13 p2005 N84-23009* #
E84-10120 ..... 14 p2167 N84-23979* #
E84-10121 ..... 14 p2167 N84-23980* #
E84-10122 ..... 14 p2167 N84-23981* #
E84-10123 ..... 14 p2168 N84-23982* #
E84-10124 ..... 14 p2168 N84-23983* #
E84-10125 ..... 14 p2168 N84-23984* #
E84-10126 ..... 15 p2355 N84-25128* #
E84-10127 ..... 14 p2168 N84-23985* #
E84-10128 ..... 14 p2168 N84-23986* #
E84-10129 ..... 14 p2168 N84-23987* #
E84-10130 ..... 15 p2357 N84-25140* #
E84-10131 ..... 16 p2506 N84-26081* #
E84-10132 ..... 15 p2357 N84-25141* #
E84-10133 ..... 15 p2357 N84-25142* #
E84-10134 ..... 16 p2506 N84-26082* #
E84-10135 ..... 16 p2506 N84-26083* #
E84-10136 ..... 16 p2506 N84-26084* #
E84-10137 ..... 16 p2506 N84-26085* #
E84-10138 ..... 16 p2506 N84-26086* #
E84-10139 ..... 16 p2506 N84-26087* #
E84-10140 ..... 16 p2507 N84-26088* #
E84-10141 ..... 16 p2507 N84-26089* #
E84-10142 ..... 16 p2507 N84-26090* #
E84-10143 ..... 16 p2507 N84-26091* #
E84-10144 ..... 16 p2507 N84-26092* #
E84-10145 ..... 16 p2508 N84-26093* #
E84-10146 ..... 16 p2508 N84-26094* #
E84-10147 ..... 16 p2508 N84-26095* #
E84-10148 ..... 16 p2508 N84-26096* #
E84-10149 ..... 16 p2508 N84-26097* #
E84-10150 ..... 16 p2508 N84-26098* #
E84-10151 ..... 16 p2509 N84-26099* #
E84-10152 ..... 17 p2709 N84-27247* #
E84-10153 ..... 17 p2709 N84-27248* #
E84-10154 ..... 19 p3038 N84-29275* #
E84-10155 ..... 19 p3039 N84-29276* #
E84-10156 ..... 19 p3039 N84-29277* #
E84-10157 ..... 17 p2709 N84-27249* #
E84-10158 ..... 17 p2709 N84-27250* #
E84-10159 ..... 17 p2709 N84-27251* #
E84-10160 ..... 17 p2709 N84-27252* #
E84-10161 ..... 17 p2710 N84-27253* #
E84-10162 ..... 17 p2710 N84-27254* #
E84-10163 ..... 17 p2710 N84-27255* #
E84-10164 ..... 17 p2710 N84-27256* #
E84-10165 ..... 17 p2711 N84-27257* #
E84-10166 ..... 20 p3205 N84-30359* #
E84-10167 ..... 20 p3206 N84-30360* #
E84-10168 ..... 19 p3039 N84-29278* #
E84-10169 ..... 21 p3426 N84-31732* #
E84-10170 ..... 21 p3426 N84-31733* #
E84-10171 ..... 21 p3426 N84-31734* #
E84-10172 ..... 21 p3426 N84-31735* #
E84-10173 ..... 22 p3613 N84-32893* #
E84-10174 ..... 21 p3427 N84-31736* #
E84-10175 ..... 21 p3427 N84-31737* #
E84-10176 ..... 21 p3427 N84-31738* #
E84-10177 ..... 21 p3427 N84-31739* #
E84-10178 ..... 21 p3428 N84-31749* #
E84-10179 ..... 21 p3428 N84-31750* #
E84-10180 ..... 21 p3428 N84-31751* #
E84-10181 ..... 21 p3429 N84-31752* #
E84-10182 ..... 21 p3429 N84-31753* #
E84-10183 ..... 21 p3429 N84-31754* #
E84-10184 ..... 21 p3429 N84-31755* #
E84-10185 ..... 21 p3429 N84-31756* #
E84-10186 ..... 21 p3429 N84-31757* #
E84-10187 ..... 21 p3429 N84-31758* #
E84-10188 ..... 21 p3430 N84-31759* #
E84-10189 ..... 21 p3430 N84-31760* #
E84-10190 ..... 22 p3613 N84-32894* #
E84-10191 ..... 22 p3614 N84-32895* #
E47069 ..... 05 p0684 N84-14499 #

F/W-50-1596 ..... 10 p1422 N84-19301 #

FAA-AC-91-61 ..... 12 p1865 N84-22152 #

FAA-AES-320 ..... 10 p1425 N84-19320 #

FAA-AM-83-7 ..... 06 p0891 N84-15793 #
FAA-AM-83-8 ..... 01 p0006 N84-10038 #
FAA-AM-83-9 ..... 07 p1049 N84-16797 #
FAA-AM-83-10 ..... 05 p0716 N84-14692 #
FAA-AM-83-11 ..... 06 p0890 N84-15781 #
FAA-AM-83-12 ..... 06 p0889 N84-15778 #
FAA-AM-83-13 ..... 06 p0892 N84-15795 #
FAA-AM-83-14-5 ..... 06 p1201 N84-17830 #
FAA-AM-83-15 ..... 07 p1047 N84-16793 #
FAA-AM-83-16-REV ..... 21 p3457 N84-31939 #
FAA-AM-83-18 ..... 08 p1101 N84-17158 #
FAA-AM-84-1 ..... 16 p2445 N84-25683 #

FAA-AMS-220 ..... 04 p0478 N84-13147 #
FAA-AMS-220 ..... 06 p0768 N84-15033 #

FAA-AP-83-16 ..... 13 p1929 N84-22550 #

FAA-APO-83-2 ..... 06 p0785 N84-15141 #
FAA-APO-83-6 ..... 09 p1349 N84-18811 #
FAA-APO-83-7 ..... 05 p0626 N84-14114 #
FAA-APO-83-10 ..... 09 p1254 N84-18185 #
FAA-APO-84-1 ..... 13 p1929 N84-22549 #

FAA-ARP-84-2 ..... 20 p3132 N84-29889 #

FAA-AT-84-1 ..... 19 p2961 N84-28765 #

FAA-CT-82-115-VOL-1 ..... 06 p0788 N84-15150 #
FAA-CT-82-134 ..... 05 p0628 N84-14130 #
FAA-CT-82-152 ..... 03 p0331 N84-12160 #
FAA-CT-82-164 ..... 02 p0182 N84-11182 #
FAA-CT-83-5 ..... 19 p2969 N84-28812 #
FAA-CT-83-10 ..... 17 p2603 N84-26680 #
FAA-CT-83-29 ..... 03 p0328 N84-12138 #
FAA-CT-83-30 ..... 07 p0949 N84-16158 #
FAA-CT-83-43 ..... 17 p2603 N84-26681 #
FAA-CT-84-5 ..... 20 p3161 N84-30073 #
FAA-CT-84-11 ..... 18 p2797 N84-27751 #
FAA-CT-84-16 ..... 22 p3533 N84-32366 #

FAA-DF-84-001A ..... 17 p2611 N84-26715 #

FAA-EE-83-1 ..... 07 p0952 N84-16175 #
FAA-EE-83-5 ..... 02 p0288 N84-11887 #
FAA-EE-83-7-VOL-2 ..... 12 p1917 N84-22488* #
FAA-EE-83-04 ..... 01 p0105 N84-10685 #
FAA-EE-83-10 ..... 18 p2821 N84-27910 #
FAA-EE-83-13 ..... 17 p2733 N84-27375* #
FAA-EE-84-1 ..... 15 p2404 N84-25430 #
FAA-EE-84-2 ..... 22 p3652 N84-33151 #
FAA-EE-84-8 ..... 19 p3084 N84-29572 #
FAA-EE-84-9 ..... 15 p2404 N84-25429 #

FAA-ES-83-6 ..... 10 p1425 N84-19319 #
FAA-ES-83-7 ..... 10 p1425 N84-19320 #
FAA-ES-83-9 ..... 10 p1425 N84-19322 #

FAA-I-84-6-1 ..... 20 p3201 N84-30334* #

FAA-MS-83-1 ..... 14 p2100 N84-23602 #
FAA-MS-83-5 ..... 15 p2254 N84-24536 #

FAA-NAS-MD-792 ..... 24 p3894 N84-34659 #

FAA-PM-83-9 ..... 04 p0482 N84-13171 #
FAA-PM-83-25 ..... 19 p2961 N84-28766 #
FAA-PM-83-27 ..... 02 p0176 N84-11158 #
FAA-PM-83-29 ..... 08 p1190 N84-17758 #
FAA-PM-83-30 ..... 04 p0484 N84-13181 #
FAA-PM-83-31 ..... 02 p0182 N84-11184 #
FAA-PM-83-32 ..... 15 p2259 N84-24568 #
FAA-PM-83-33 ..... 19 p3058 N84-29404 #
FAA-PM-84-10 ..... 19 p2969 N84-28815 #

FAA-RD-79-91 ..... 17 p2733 N84-27372 #
FAA-RD-82-18 ..... 17 p2652 N84-26956 #
FAA-RD-82-91 ..... 19 p2969 N84-28812 #

FAA-83-4-1-VOL-1 ..... 20 p3131 N84-29681 #

FAA/CT-83/15 ..... 20 p3262 N84-30698 #

FAA/EE-82-11-VOL-1 ..... 06 p0790 N84-15157 #
FAA/EE-82-11-VOL-2 ..... 06 p0791 N84-15158 #
FAA/EE-82-11-VOL-3 ..... 11 p1614 N84-20563 #
FAA/EE-83-3 ..... 06 p0908 N84-15900 #
FAA/EE-83-6 ..... 01 p0140 N84-10922 #
FAA/EE-84-10 ..... 24 p3917 N84-34800 #

FAA/PM-83/35 ..... 16 p2446 N84-25688 #

FAAA-83-3-11 ..... 08 p1170 N84-17622* #
FAAA-83-9-8 ..... 08 p1169 N84-17615* #

FACHTHEMEN-5 ..... 07 p0945 N84-16130 #

FAFSR-10 ..... 21 p3356 N84-31287* #

FAR-3 ..... 11 p1693 N84-21041 #
FAR-4 ..... 15 p2383 N84-25289 #

FB-111 ..... 10 p1487 N84-19723 #

FCC/OST/R-84-1-PT-2 ..... 16 p2483 N84-25921 #

FCC/OST/R83-3 ..... 08 p1148 N84-17470 #

FCC/OST/TM-83-7 ..... 08 p1148 N84-17474 #

FCM-P1-1984 ..... 21 p3449 N84-31884 #
FCM-P11-1984 ..... 14 p2180 N84-24061 #
FCM-P12-1984 ..... 21 p3450 N84-31888 #
FCM-P14-1984 ..... 16 p2531 N84-26253 #

FCR-4991A ..... 10 p1538 N84-20076 #
FCR-5198 ..... 10 p1487 N84-19720 #

FDA/NCDRH-82/43 ..... 01 p0061 N84-10400 #
FDA/NCDRH-83/42 ..... 01 p0114 N84-10742 #
FDA/NCDRH-84/6 ..... 08 p1165 N84-17587 #
FDA/NCDRH-84/24 ..... 20 p3191 N84-30271 #

FDRL-83-4 ..... 18 p2853 N84-28119 #

FE-2291-111-A ..... 01 p0092 N84-10597 #

FERMILAB-CONF-82/55-THY ..... 03 p0435 N84-12855 #
FERMILAB-CONF-83/17-THY ..... 01 p0144 N84-10944 #
FERMILAB-CONF-83/32-THY ..... 03 p0476 N84-13132 #
FERMILAB-CONF-83/36-THY ..... 02 p0309 N84-12025 #
FERMILAB-CONF-83/45-THY ..... 03 p0426 N84-12791 #
FERMILAB-CONF-84/21-E ..... 14 p2148 N84-23871 #
FERMILAB-CONF-84/22-E ..... 15 p2337 N84-25032 #
FERMILAB-CONF-84/27 ..... 15 p2389 N84-25330 #
FERMILAB-CONF-84/40-T ..... 22 p3681 N84-33334 #

FERMILAB/TM-1198 ..... 03 p0384 N84-12502 #
FERMILAB/TM-1202 ..... 03 p0456 N84-12999 #
FERMILAB/TM-1203 ..... 01 p0119 N84-10775 #
FERMILAB/TM-1205 ..... 04 p0603 N84-13983 #
FERMILAB/TM-1206 ..... 04 p0515 N84-13386 #
FERMILAB/TM-1210 ..... 06 p0907 N84-15892 #
FERMILAB/TM-1233 ..... 10 p1498 N84-19793 #
FERMILAB/TM-1245 ..... 19 p3079 N84-29539 #
FERMILAB/TM-1246 ..... 19 p3102 N84-29709 #
FERMILAB/TM-1247 ..... 19 p3102 N84-29706 #
FERMILAB/TM-1253 ..... 20 p3292 N84-30902 #
FERMILAB/TM-1261 ..... 21 p3494 N84-32140 #
FERMILAB/TM-1264 ..... 22 p3578 N84-32662 #

FFA-TN-1983-28 ..... 03 p0412 N84-12696 #
FFA-TN-1983-29 ..... 03 p0386 N84-12516 #
FFA-TN-1983-30 ..... 03 p0348 N84-12260 #
FFA-TN-1983-31 ..... 18 p2876 N84-28262 #
FFA-TN-1983-44 ..... 09 p1387 N84-19057 #
FFA-TN-1983-45 ..... 09 p1387 N84-19058 #
FFA-TN-1983-57 ..... 15 p2284 N84-24713 #
FFA-TN-1984-12 ..... 18 p2853 N84-28119 #

FFA-136 ..... 17 p2667 N84-27006 #
FFA-137 ..... 06 p0783 N84-15132 #
FFA-138 ..... 04 p0479 N84-13155 #
FFA-138 ..... 09 p1253 N84-18180 #

FFC/CP-83-10 ..... 04 p0609 N84-14018 #

FGCC-IS-83-2 ..... 03 p0402 N84-12631 #

FHWA-TS-83-206 ..... 08 p1142 N84-17426 #

FHWA/NC-82/002 ..... 01 p0058 N84-10379 #

FHWA/OH-83/002 ..... 20 p3171 N84-30135 #

FHWA/PA-83/007 ..... 01 p0058 N84-10375 #

FHWA/RD-82/103 ..... 16 p2477 N84-25883 #
FHWA/RD-82/104-VOL-2 ..... 16 p2478 N84-25884 #
FHWA/RD-82/105-VOL-3-APP-A-G ..... 16 p2478 N84-25885 #
FHWA/RD-82/114-VOL-5 ..... 01 p0059 N84-10386 #
FHWA/RD-82/115 ..... 01 p0059 N84-10385 #
FHWA/RD-83/012 ..... 22 p3565 N84-32578 #

FHWA/TX-83/6-261-2 ..... 05 p0664 N84-14363 #
FHWA/TX-83/7 ..... 04 p0516 N84-13389 #
FHWA/TX-83/9-247-5F ..... 22 p3612 N84-32887 #
FHWA/TX-83/24-306-1 ..... 22 p3612 N84-32888 #

FHWA/VA-84/10 ..... 17 p2654 N84-26976 #

FHWA/WA-RD-53.3 ..... 01 p0058 N84-10381 #
FHWA/WA-RD-56.3 ..... 01 p0058 N84-10380 #

FI-13-TBR-17 ..... 16 p2481 N84-25911 #
FI-14-TBR-11 ..... 14 p2244 N84-24474 #
FI-44-TBR-91 ..... 16 p2482 N84-25917 #
FI-44-TBR-92 ..... 12 p1810 N84-21799 #
FI-65-TBR-20-PT-3 ..... 03 p0456 N84-13000 #
FI-032-TB-16 ..... 23 p3732 N84-33654 #
FI-451-TBR-9 ..... 15 p2407 N84-25451 #
FI-452-TBR-56 ..... 14 p2225 N84-24356 #
FI-454-TBR-34 ..... 19 p3009 N84-29076 #
FI-454-TBR-35 ..... 16 p2482 N84-25918 #
FI-455-TBR-75 ..... 19 p3010 N84-29081 #
FI-465-TBR-22 ..... 03 p0442 N84-12906 #

FIGCBT/DOC-1 ..... 04 p0574 N84-13780 #

FIM-100 ..... 08 p1213 N84-17915 #
FIM-115 ..... 05 p0697 N84-14576 #

FIPS-PUB-69 ..... 05 p0720 N84-14723 #
FIPS-PUB-102 ..... 20 p3268 N84-30736 #

FJSRL-JR-83-0004 ..... 09 p1390 N84-19075 #

FJSRL-TR-83-0006 ..... 19 p2988 N84-28935 #
FJSRL-TR-83-0008 ..... 05 p0744 N84-14890 #
FJSRL-TR-83-0009 ..... 05 p0648 N84-14262 #
FJSRL-TR-83-0010 ..... 07 p0948 N84-16150 #
FJSRL-TR-83-0011 ..... 09 p1273 N84-18313 #
FJSRL-TR-83-0012 ..... 19 p3101 N84-29698 #
FJSRL-TR-83-0014 ..... 10 p1576 N84-20326 #
FJSRL-TR-83-0017 ..... 11 p1668 N84-20885 #
FJSRL-TR-83-0018 ..... 13 p1966 N84-22770 #
FJSRL-TR-84-0002 ..... 17 p2609 N84-26704 #

FL/DOT/BMR-83/259 ..... 05 p0694 N84-14557 #

FM-4 ..... 13 p1990 N84-22917 #

FME-R-1/9693 ..... 08 p1170 N84-17622* #
FME-R-1G/9693 ..... 08 p1169 N84-17615* #

FMI-NAS-8273 ..... 22 p3676 N84-33304* #

FOA-A-30033-E ..... 15 p2321 N84-24932 #
FOA-A-30034-E1 ..... 15 p2265 N84-24602 #
FOA-A-40045-A3 ..... 08 p1183 N84-17705 #
FOA-A-56005-H2 ..... 08 p1206 N84-17863 #
FOA-A-56006-H2 ..... 15 p2384 N84-25297 #
FOA-A-58002-H1 ..... 19 p3071 N84-29486 #
FOA-A-59005-H1-H2 ..... 18 p2915 N84-28490 #

FOA-C-10207-M3 ..... 07 p0962 N84-16235 #
FOA-C-20468-D3 ..... 07 p0962 N84-16236 #
FOA-C-20473-D6(F8) ..... 07 p1085 N84-17057 #
FOA-C-20476-D8(E2,E3) ..... 07 p0950 N84-16162 #
FOA-C-20478-D8 ..... 07 p1008 N84-16539 #
FOA-C-20482-E3 ..... 07 p0962 N84-16237 #
FOA-C-20496-D4 ..... 05 p0686 N84-14507 #
FOA-C-20497-F9 ..... 02 p0189 N84-11227 #
FOA-C-20500-E4 ..... 08 p1206 N84-17864 #
FOA-C-20502-A1 ..... 02 p0192 N84-11246 #
FOA-C-20503-A1 ..... 05 p0746 N84-14899 #
FOA-C-20504-E4 ..... 08 p1172 N84-17634 #
FOA-C-20505-D6(F9) ..... 07 p0968 N84-16274 #
FOA-C-20506-E4 ..... 08 p1228 N84-18025 #
FOA-C-20507-D1 ..... 08 p1101 N84-17159 #
FOA-C-20508-D8 ..... 08 p1213 N84-17916 #
FOA-C-20509-F9 ..... 06 p0799 N84-15208 #
FOA-C-20511-E2 ..... 12 p1810 N84-21800 #
FOA-C-20512-E2 ..... 12 p1810 N84-21801 #
FOA-C-20514-T1 ..... 12 p1848 N84-22046 #
FOA-C-20515-A1 ..... 15 p2366 N84-25197 #
FOA-C-20516-D2 ..... 15 p2280 N84-24695 #
FOA-C-20519-D8 ..... 15 p2336 N84-25023 #
FOA-C-20520-D8 ..... 16 p2544 N84-26332 #
FOA-C-20521-E1 ..... 15 p2368 N84-25208 #
FOA-C-20522-D4 ..... 15 p2349 N84-25102 #
FOA-C-20523-E1 ..... 15 p2406 N84-25445 #
FOA-C-20524-D6 ..... 15 p2305 N84-24831 #
FOA-C-20526-E4 ..... 16 p2498 N84-26030 #
FOA-C-20527-D9 ..... 19 p3030 N84-29220 #
FOA-C-20528-D1(D3) ..... 15 p2303 N84-24820 #
FOA-C-20529-D8 ..... 15 p2390 N84-25340 #
FOA-C-20530-D4(D6) ..... 15 p2350 N84-25103 #
FOA-C-20531-D8 ..... 15 p2418 N84-25516 #
FOA-C-20533-D8 ..... 19 p3042 N84-29304 #
FOA-C-20534-D2 ..... 19 p2996 N84-28985
FOA-C-20535-E1 ..... 18 p2880 N84-28287 #
FOA-C-20536-E1(E3) ..... 19 p3003 N84-29030 #
FOA-C-20538-T1 ..... 20 p3316 N84-31058 #
FOA-C-30269-E2 ..... 07 p0994 N84-16447 #
FOA-C-30296-E1,E2,E3 ..... 07 p1085 N84-17058 #
FOA-C-30297-E1,E3 ..... 07 p0962 N84-16238 #
FOA-C-30300-E1 ..... 08 p1146 N84-17457 #
FOA-C-30302-A3 ..... 08 p1146 N84-17458 #
FOA-C-30303-E2 ..... 08 p1146 N84-17459 #
FOA-C-30316-E1 ..... 08 p1214 N84-17917 #
FOA-C-30317-E1 ..... 10 p1489 N84-19738 #
FOA-C-30320-A3 ..... 08 p1106 N84-17192 #
FOA-C-30325-E1,E3 ..... 03 p0402 N84-12630 #
FOA-C-30326-E2 ..... 02 p0295 N84-11935 #
FOA-C-30327-E ..... 08 p1152 N84-17503 #
FOA-C-30328-E1 ..... 02 p0228 N84-11496 #
FOA-C-30329-E1 ..... 06 p0867 N84-15644 #
FOA-C-30330-E3 ..... 08 p1146 N84-17460 #
FOA-C-30331-E ..... 06 p0831 N84-15407 #
FOA-C-30332-E ..... 02 p0211 N84-11380 #
FOA-C-30333-E1 ..... 08 p1165 N84-17586 #
FOA-C-30334-E1 ..... 08 p1146 N84-17461 #
FOA-C-30335-E1 ..... 08 p1222 N84-17979 #
FOA-C-30338-E ..... 12 p1814 N84-21824 #
FOA-C-30339-E1,E3 ..... 08 p1214 N84-17918 #
FOA-C-30340-E2 ..... 08 p1179 N84-17682 #
FOA-C-30341-E ..... 06 p0826 N84-15388 #
FOA-C-30342-E1 ..... 15 p2397 N84-25380 #
FOA-C-30343-E1 ..... 10 p1484 N84-19701 #
FOA-C-30344-E1 ..... 10 p1572 N84-20303 #
FOA-C-30345-E1 ..... 15 p2320 N84-24930 #
FOA-C-30346-E1 ..... 10 p1527 N84-20002 #
FOA-C-30347-E1 ..... 15 p2417 N84-25514 #
FOA-C-30348-E4 ..... 10 p1500 N84-19802 #
FOA-C-30349-E1 ..... 15 p2359 N84-25156 #
FOA-C-30350-E4 ..... 10 p1489 N84-19739 #
FOA-C-30351-E1 ..... 15 p2390 N84-25341 #
FOA-C-30352-E ..... 15 p2407 N84-25446 #
FOA-C-30353-E ..... 15 p2320 N84-24931 #
FOA-C-30354-E ..... 15 p2391 N84-25346 #
FOA-C-30355-E1 ..... 18 p2830 N84-27968 #
FOA-C-30356-E1 ..... 15 p2388 N84-25326 #
FOA-C-30357-E1 ..... 18 p2830 N84-27969 #
FOA-C-30358-E2 ..... 23 p3732 N84-33653 #
FOA-C-30359-E1,E3 ..... 19 p3042 N84-29305 #
FOA-C-30360-E1 ..... 23 p3831 N84-34301 #
FOA-C-30363-E1 ..... 23 p3752 N84-33785 #
FOA-C-30365-A3 ..... 23 p3744 N84-33736 #
FOA-C-40165-A1(C1) ..... 08 p1188 N84-17741 #
FOA-C-40175-B2 ..... 10 p1546 N84-20132 #
FOA-C-40178-C2(B2,A3) ..... 06 p0831 N84-15408 #
FOA-C-40182-A3,B2,C2 ..... 15 p2390 N84-25342 #
FOA-C-40183-C2 ..... 10 p1565 N84-20255 #
FOA-C-40184-A3 ..... 06 p0890 N84-15786 #
FOA-C-40185-C2(H2) ..... 08 p1183 N84-17707 #
FOA-C-40189-B4-PT-1 ..... 23 p3726 N84-33611 #
FOA-C-40191-C3 ..... 23 p3805 N84-34127 #
FOA-C-52005-H4 ..... 20 p3260 N84-30692 #
FOA-C-53012-H2 ..... 10 p1552 N84-20172 #
FOA-C-53013-H2 ..... 18 p2922 N84-28528 #
FOA-C-53014-H2 ..... 15 p2417 N84-25515 #
FOA-C-53016-H2 ..... 18 p2790 N84-27706 #
FOA-C-53017-H2 ..... 18 p2790 N84-27707 #
FOA-C-55058-H3 ..... 03 p0416 N84-12724 #
FOA-C-56033-H2 ..... 06 p1204 N84-17847 #
FOA-C-56034-H2 ..... 08 p1204 N84-17848 #
FOA-C-56035-H2 ..... 08 p1204 N84-17849 #
FOA-C-56039-H2-PT-2 ..... 09 p1141 N84-17422 #
FOA-C-56041-H2 ..... 15 p2390 N84-25343 #
FOA-C-56042-H2 ..... 19 p3116 N84-29804 #
FOA-C-59006-H2 ..... 10 p1592 N84-20431 #
FOA-C-59007-H1 ..... 10 p1555 N84-20193 #
FOA-C-59008-H1 ..... 19 p2959 N84-28756 #
FOA-C-59009-H1 ..... 18 p2901 N84-28402 #
FOA-C-59010-H1 ..... 18 p2790 N84-27708 #

FOA-E-30002-E26 ..... 23 p3744 N84-33735 #

FOUNDATION-DISCUSSION-690 ..... 12 p1920 N84-22510 #

FPR-6 ..... 08 p1235 N84-18071 #

FQR-4 ..... 01 p0053 N84-10345 #

FQSR-6 ..... 08 p1121 N84-17289 #

FR-1 ..... 04 p0525 N84-13453 #
FR-1 ..... 05 p0654 N84-14297 #
FR-1 ..... 06 p0920 N84-15983 #
FR-1 ..... 08 p1235 N84-18070 #
FR-1 ..... 09 p1375 N84-18978 #
FR-1 ..... 12 p1898 N84-22362 #
FR-2 ..... 04 p0525 N84-13456 #
FR-2 ..... 05 p0735 N84-14824 #
FR-3 ..... 04 p0525 N84-13454 #
FR-3 ..... 07 p0951 N84-16174 #
FR-3 ..... 08 p1124 N84-17304 #
FR-3 ..... 21 p3453 N84-31913 #
FR-6 ..... 11 p1633 N84-20676* #
FR-83-76-686 ..... 01 p0070 N84-10455 #
FR-188 ..... 24 p3965 N84-35108 #
FR-10073 ..... 23 p3788 N84-34024* #
FR-15852 ..... 01 p0042 N84-10268* #
FR-15738 ..... 21 p3367 N84-31363 #
FR-683101-VOL-1 ..... 21 p3344 N84-31217* #

FR-883110 ..... 22 p3597 N84-32784* #
FR-883111-VOL-2 ..... 21 p3344 N84-31218* #

FRA-ORD-80-40.111 ..... 04 p0510 N84-13340 #

FRC-262 ..... 05 p0680 N84-14471 #

FRP-82/17 ..... 04 p0498 N84-13266 #

FS/82/7 ..... 09 p1312 N84-18572* #

FSEC-CR-78-83(EI) ..... 12 p1844 N84-22022 #

FSGTR-FPL-40 ..... 19 p3076 N84-29533 #

FSGTR-NC-84 ..... 05 p0731 N84-14797 #
FSGTR-NC-85 ..... 05 p0731 N84-14798 #
FSGTR-NC-86 ..... 05 p0731 N84-14799 #

FSGTR-PSW-73 ..... 13 p2018 N84-23083 #

FSGTR/INT-150 ..... 04 p0556 N84-13669 #
FSGTR/INT-160 ..... 20 p3248 N84-30615 #

FSGTR/NT-164 ..... 21 p3449 N84-31886 #

FSRB/INT-32 ..... 04 p0556 N84-13667 #

FSRB/SO-85 ..... 04 p0556 N84-13665 #
FSRB/SO-91 ..... 04 p0556 N84-13664 #
FSRB/SO-92 ..... 04 p0556 N84-13662 #
FSRB/SO-93 ..... 04 p0556 N84-13668 #
FSRB/SO-94 ..... 04 p0556 N84-13666 #

FSRP-FPL-441 ..... 09 p1334 N84-18706 #
FSRP-FPL-446 ..... 23 p3761 N84-33836 #

FSRP-23-236 ..... 04 p0556 N84-13663 #

FSU-STATISTICS-M648 ..... 05 p0739 N84-14852 #
FSU-STATISTICS-M650 ..... 06 p0905 N84-15874 #
FSU-STATISTICS-M659 ..... 05 p0739 N84-14857 #
FSU-STATISTICS-M661 ..... 05 p0736 N84-14833 #
FSU-STATISTICS-M663 ..... 05 p0740 N84-14859 #
FSU-STATISTICS-M670 ..... 11 p1713 N84-21169 #
FSU-STATISTICS-M674 ..... 08 p1220 N84-17961 #
FSU-STATISTICS-M677 ..... 22 p3650 N84-33139 #
FSU-STATISTICS-M678 ..... 22 p3648 N84-33132 #

FTD-ID(RS)T-408-83 ..... 04 p0525 N84-13449 #
FTD-ID(RS)T-0006-84 ..... 14 p2246 N84-24487 #
FTD-ID(RS)T-0015-83 ..... 03 p0377 N84-12451 #
FTD-ID(RS)T-0031-84 ..... 13 p2047 N84-23283 #
FTD-ID(RS)T-0041-84 ..... 17 p2601 N84-26671 #
FTD-ID(RS)T-0069-84 ..... 14 p2118 N84-23692 #
FTD-ID(RS)T-0072-84 ..... 21 p3434 N84-31786 #
FTD-ID(RS)T-0073-84 ..... 19 p3024 N84-29179 #
FTD-ID(RS)T-0079-84 ..... 18 p2879 N84-28282 #
FTD-ID(RS)T-0222-83 ..... 02 p0177 N84-11161 #
FTD-ID(RS)T-0250-84 ..... 18 p2637 N84-28005 #
FTD-ID(RS)T-0266-83 ..... 03 p0315 N84-12055 #
FTD-ID(RS)T-0283-84 ..... 21 p3409 N84-31620 #
FTD-ID(RS)T-0284-83 ..... 03 p0372 N84-12422 #
FTD-ID(RS)T-0284-84 ..... 21 p3383 N84-31465 #
FTD-ID(RS)T-0285-83 ..... 06 p0796 N84-15184 #
FTD-ID(RS)T-0296-84 ..... 22 p3611 N84-32881 #
FTD-ID(RS)T-0307-83 ..... 02 p0186 N84-11207 #
FTD-ID(RS)T-0310-84 ..... 21 p3399 N84-31564 #
FTD-ID(RS)T-0320-84 ..... 23 p3693 N84-33407 #
FTD-ID(RS)T-0346-83 ..... 04 p0539 N84-13549 #
FTD-ID(RS)T-0347-83 ..... 04 p0577 N84-13807 #
FTD-ID(RS)T-0348-84 ..... 17 p2627 N84-26808 #
FTD-ID(RS)T-0351-84 ..... 17 p2626 N84-26804 #
FTD-ID(RS)T-0372-84 ..... 16 p2471 N84-25838 #
FTD-ID(RS)T-0373-83 ..... 02 p0183 N84-11191 #
FTD-ID(RS)T-0374-83 ..... 17 p2671 N84-27027 #
FTD-ID(RS)T-0377-83 ..... 02 p0180 N84-11172 #
FTD-ID(RS)T-0380-83 ..... 02 p0242 N84-11583 #
FTD-ID(RS)T-0396-83 ..... 03 p0383 N84-12498 #
FTD-ID(RS)T-0398-84 ..... 16 p2483 N84-25920 #
FTD-ID(RS)T-0435-84 ..... 19 p3072 N84-29488 #
FTD-ID(RS)T-0452-83 ..... 05 p0625 N84-14113 #
FTD-ID(RS)T-0461-83 ..... 02 p0267 N84-11879 #
FTD-ID(RS)T-0507-83 ..... 03 p0429 N84-12814 #
FTD-ID(RS)T-0518-83 ..... 03 p0366 N84-12380 #
FTD-ID(RS)T-0523-83 ..... 01 p0086 N84-10564 #
FTD-ID(RS)T-0569-83 ..... 03 p0440 N84-12890 #
FTD-ID(RS)T-0571-83 ..... 02 p0289 N84-11893 #
FTD-ID(RS)T-0578-83 ..... 01 p0078 N84-10510 #
FTD-ID(RS)T-0593-83 ..... 04 p0509 N84-13333 #
FTD-ID(RS)T-0603-83 ..... 03 p0379 N84-12465 #
FTD-ID(RS)T-0610-83 ..... 06 p0918 N84-15963 #
FTD-ID(RS)T-0611-84 ..... 23 p3726 N84-33610 #
FTD-ID(RS)T-0615-84 ..... 19 p2983 N84-28902 #
FTD-ID(RS)T-0635-83 ..... 02 p0199 N84-11298 #
FTD-ID(RS)T-0673-83 ..... 05 p0749 N84-14921 #
FTD-ID(RS)T-0679-83 ..... 05 p0667 N84-14390 #
FTD-ID(RS)T-0709-84 ..... 24 p3903 N84-34712 #
FTD-ID(RS)T-0712-84 ..... 24 p3908 N84-34756 #
FTD-ID(RS)T-0713-84 ..... 24 p3908 N84-34757 #
FTD-ID(RS)T-0716-83 ..... 03 p0420 N84-12743 #
FTD-ID(RS)T-0717-84 ..... 22 p3662 N84-33217 #
FTD-ID(RS)T-0721-83 ..... 03 p0366 N84-12381 #
FTD-ID(RS)T-0731-84 ..... 22 p3532 N84-32362 #
FTD-ID(RS)T-0741-84 ..... 24 p3854 N84-34441 #
FTD-ID(RS)T-0742-84 ..... 24 p3901 N84-34702 #
FTD-ID(RS)T-0762-83 ..... 04 p0490 N84-13216 #
FTD-ID(RS)T-0764-83 ..... 05 p0712 N84-14662 #
FTD-ID(RS)T-0779-83 ..... 02 p0213 N84-11393 #
FTD-ID(RS)T-0779-84 ..... 24 p3866 N84-34503 #
FTD-ID(RS)T-0794-84 ..... 24 p3867 N84-34507 #
FTD-ID(RS)T-0817-83 ..... 03 p0476 N84-13135 #
FTD-ID(RS)T-0818-83 ..... 03 p0361 N84-12346 #
FTD-ID(RS)T-0819-84 ..... 24 p3884 N84-34608 #
FTD-ID(RS)T-0820-83 ..... 02 p0174 N84-11147 #
FTD-ID(RS)T-0842-84 ..... 24 p3884 N84-34607 #
FTD-ID(RS)T-0853-83 ..... 01 p0008 N84-10050 #
FTD-ID(RS)T-0854-83 ..... 03 p0359 N84-12336 #
FTD-ID(RS)T-0874-83 ..... 06 p1119 N84-17280 #
FTD-ID(RS)T-0898-83 ..... 03 p0341 N84-12212 #
FTD-ID(RS)T-0948-83 ..... 05 p0741 N84-14670 #
FTD-ID(RS)T-0953-84 ..... 23 p3731 N84-33650 #
FTD-ID(RS)T-1010-82 ..... 01 p0079 N84-10512 #
FTD-ID(RS)T-1010-83 ..... 05 p0765 N84-15021 #
FTD-ID(RS)T-1018-83 ..... 04 p0509 N84-13334 #
FTD-ID(RS)T-1019-83 ..... 06 p0932 N84-16058 #
FTD-ID(RS)T-1067-83 ..... 03 p0403 N84-12637 #
FTD-ID(RS)T-1086-83 ..... 03 p0366 N84-12383 #
FTD-ID(RS)T-1087-83 ..... 03 p0366 N84-12382 #
FTD-ID(RS)T-1088-83 ..... 09 p1308 N84-18552 #
FTD-ID(RS)T-1089-83 ..... 09 p1249 N84-18157 #
FTD-ID(RS)T-1090-83 ..... 03 p0452 N84-12971 #
FTD-ID(RS)T-1091-83 ..... 04 p0612 N84-14037 #
FTD-ID(RS)T-1094-83 ..... 03 p0403 N84-12636 #
FTD-ID(RS)T-1095-83 ..... 06 p0830 N84-15399 #
FTD-ID(RS)T-1096-83 ..... 04 p0525 N84-13451 #
FTD-ID(RS)T-1131-83 ..... 08 p1226 N84-18011 #
FTD-ID(RS)T-1132-83 ..... 08 p1226 N84-18010 #
FTD-ID(RS)T-1143-83 ..... 05 p0644 N84-14237 #
FTD-ID(RS)T-1182-83 ..... 08 p1229 N84-18029 #
FTD-ID(RS)T-1186-83 ..... 09 p1341 N84-18761 #
FTD-ID(RS)T-1205-83 ..... 16 p2484 N84-25932 #
FTD-ID(RS)T-1207-83 ..... 16 p2477 N84-25877 #
FTD-ID(RS)T-1248-83 ..... 09 p1307 N84-18545 #
FTD-ID(RS)T-1258-83 ..... 08 p1132 N84-17361 #
FTD-ID(RS)T-1277-83 ..... 07 p0963 N84-16245 #
FTD-ID(RS)T-1310-83 ..... 09 p1325 N84-18657 #
FTD-ID(RS)T-1323-83 ..... 09 p1307 N84-18543 #
FTD-ID(RS)T-1331-83 ..... 15 p2318 N84-24910 #
FTD-ID(RS)T-1334-83 ..... 09 p1396 N84-19118 #
FTD-ID(RS)T-1337-83 ..... 09 p1341 N84-18762 #
FTD-ID(RS)T-1338-83 ..... 09 p1307 N84-18544 #
FTD-ID(RS)T-1344-83 ..... 14 p2220 N84-24320 #
FTD-ID(RS)T-1364-83 ..... 07 p1076 N84-16994 #
FTD-ID(RS)T-1380-83 ..... 05 p0675 N84-14433 #
FTD-ID(RS)T-1392-83 ..... 07 p1026 N84-16646 #
FTD-ID(RS)T-1410-83 ..... 08 p1137 N84-17397 #
FTD-ID(RS)T-1411-83 ..... 09 p1282 N84-18376 #
FTD-ID(RS)T-1425-83 ..... 08 p1106 N84-17201 #
FTD-ID(RS)T-1429-83 ..... 10 p1485 N84-19710 #
FTD-ID(RS)T-1430-83 ..... 18 p2833 N84-27985 #
FTD-ID(RS)T-1433-83 ..... 08 p1220 N84-17967 #
FTD-ID(RS)T-1441-83 ..... 08 p1232 N84-18051 #
FTD-ID(RS)T-1454-83 ..... 08 p1108 N84-17204 #
FTD-ID(RS)T-1472-83 ..... 11 p1644 N84-20749 #
FTD-ID(RS)T-1499-82 ..... 02 p0294 N84-11924 #
FTD-ID(RS)T-1525-83 ..... 08 p1240 N84-18107 #
FTD-ID(RS)T-1527-83 ..... 09 p1404 N84-19174 #
FTD-ID(RS)T-1556-83 ..... 10 p1485 N84-19711 #
FTD-ID(RS)T-1575-83 ..... 09 p1284 N84-18386 #
FTD-ID(RS)T-1576-83 ..... 09 p1283 N84-18382 #
FTD-ID(RS)T-1577-83 ..... 08 p1132 N84-17362 #
FTD-ID(RS)T-1578-82 ..... 02 p0183 N84-11190 #
FTD-ID(RS)T-1578-83 ..... 09 p1283 N84-18381 #
FTD-ID(RS)T-1597-83 ..... 11 p1665 N84-20861 #
FTD-ID(RS)T-1637-83 ..... 09 p1342 N84-18765 #
FTD-ID(RS)T-1638-83 ..... 09 p1348 N84-18809 #
FTD-ID(RS)T-1639-83 ..... 09 p1348 N84-18810 #
FTD-ID(RS)T-1644-83 ..... 09 p1344 N84-18783 #
FTD-ID(RS)T-1645-83 ..... 09 p1345 N84-18790 #
FTD-ID(RS)T-1646-83 ..... 09 p1345 N84-18787 #
FTD-ID(RS)T-1647-83 ..... 11 p1683 N84-20982 #
FTD-ID(RS)T-1648-83 ..... 10 p1539 N84-20086 #
FTD-ID(RS)T-1649-83 ..... 11 p1688 N84-21006 #
FTD-ID(RS)T-1650-83 ..... 10 p1539 N84-20085 #
FTD-ID(RS)T-1675-83 ..... 21 p3383 N84-31466 #
FTD-ID(RS)T-1676-83 ..... 19 p3007 N84-29059 #
FTD-ID(RS)T-1691-83 ..... 11 p1599 N84-20473 #
FTD-ID(RS)T-1692-83 ..... 11 p1602 N84-20496 #
FTD-ID(RS)T-1693-83 ..... 11 p1599 N84-20475 #
FTD-ID(RS)T-1712-83 ..... 13 p1956 N84-22717 #
FTD-ID(RS)T-1716-83 ..... 11 p1646 N84-20761 #

FTD-ID(RS)T-1720-83 ..... 10 p1485 N84-19712 #
FTD-ID(RS)T-1726-83 ..... 13 p2039 N84-23232 #
FTD-ID(RS)T-1734-83 ..... 22 p3644 N84-33101 #
FTD-ID(RS)T-1735-83 ..... 21 p3366 N84-31351 #
FTD-ID(RS)T-1736-83 ..... 11 p1599 N84-20476 #
FTD-ID(RS)T-1748-83 ..... 11 p1745 N84-21391 #
FTD-ID(RS)T-1752-83 ..... 12 p1764 N84-21506 #
FTD-ID(RS)T-1775-83 ..... 19 p3013 N84-29097 #
FTD-ID(RS)T-1787-83 ..... 12 p1778 N84-21602 #
FTD-ID(RS)T-1793-83 ..... 11 p1732 N84-21297 #
FTD-ID(RS)T-1801-83 ..... 14 p2146 N84-23861 #
FTD-ID(RS)T-1811-83 ..... 11 p1624 N84-20629 #
FTD-ID(RS)T-1812-83 ..... 11 p1646 N84-20763 #
FTD-ID(RS)T-1816-83 ..... 14 p2134 N84-23792 #
FTD-ID(RS)T-1819-83 ..... 11 p1626 N84-20642 #
FTD-ID(RS)T-1821-83 ..... 14 p2222 N84-24336 #
FTD-ID(RS)T-1827-83 ..... 14 p2148 N84-23867 #
FTD-ID(RS)T-1863-83 ..... 13 p1990 N84-22918 #
FTD-ID(RS)T-1868-83 ..... 20 p3159 N84-30063 #
FTD-ID(RS)T-1869-83 ..... 15 p2434 N84-25610 #
FTD-ID(RS)T-1870-83 ..... 16 p2434 N84-25611 #
FTD-ID(RS)T-1883-83 ..... 15 p2415 N84-25501 #
FTD-ID(RS)T-1884-83 ..... 11 p1646 N84-20762 #
FTD-ID(RS)T-1926-83 ..... 17 p2668 N84-27010 #
FTD-ID(RS)T-1927-83 ..... 19 p3024 N84-29180 #

FTR-1 ..... 09 p1388 N84-19065 #

FTR110410000U-PT-3-VOL-2 ..... 10 p1563 N84-20240 #

FTZ-454-TBR-38-E ..... 12 p1808 N84-21789 #

FUB-1-1983 ..... 05 p0732 N84-14804 #
FUB-2-1983 ..... 10 p1483 N84-19693 #
FUB-3-1983 ..... 10 p1483 N84-19694 #
FUB-7-1983 ..... 10 p1476 N84-19642 #
FUB-38-1982 ..... 03 p0443 N84-12908 #
FUB-39-1982 ..... 05 p0671 N84-14411 #
FUB-43-1982 ..... 05 p0748 N84-14911 #
FUB-44-1982 ..... 05 p0714 N84-14677 #
FUB-48-1982 ..... 06 p0902 N84-15857 #
FUB-49-1982-PT-1 ..... 06 p0826 N84-15385 #
FUB-50-1982 ..... 06 p0826 N84-15386 #
FUB-51-1982 ..... 06 p0826 N84-15387 #
FUB-52-1982 ..... 06 p0902 N84-15858 #
FUB-53-1982 ..... 14 p2220 N84-24319 #
FUB-54-1982 ..... 06 p0903 N84-15859 #
FUB-55-1982 ..... 10 p1483 N84-19690 #
FUB-56-1982 ..... 10 p1483 N84-19691 #
FUB-57-1982 ..... 10 p1483 N84-19692 #
FUB-58-1981 ..... 05 p0731 N84-14803 #
FUB-59-1981 ..... 03 p0426 N84-12794 #

FWS/OBS-82-68 ..... 02 p0245 N84-11604 #

FZM-7151 ..... 21 p3391 N84-31518 #
FZM-7184 ..... 20 p3161 N84-30073 #

F83-02 ..... 18 p2832 N84-27980* #
F83-06 ..... 20 p3292 N84-30699 #

G-81-12(19) ..... 08 p1203 N84-17842 #
G-83-3-(34) ..... 06 p0933 N84-16061 #
G-83-7-(38) ..... 06 p0932 N84-16059 #
G-83-8-(39) ..... 06 p0934 N84-16067 #
G-83-11-(42) ..... 06 p0933 N84-16066 #
G-2532-VOL-1 ..... 08 p1153 N84-17505 #
G-2745-VOL-2 ..... 08 p1153 N84-17506 #

GA-A-16922 ..... 02 p0299 N84-11962 #
GA-A-16923 ..... 03 p0429 N84-12815 #
GA-A-16930 ..... 01 p0082 N84-10534 #
GA-A-16931 ..... 01 p0082 N84-10535 #
GA-A-17012 ..... 03 p0448 N84-12949 #
GA-A-17013 ..... 02 p0219 N84-11436 #
GA-A-17018 ..... 04 p0608 N84-14014 #
GA-A-17031 ..... 03 p0418 N84-12733 #
GA-A-17059 ..... 03 p0445 N84-12927 #
GA-A-17142 ..... 05 p0751 N84-14929 #
GA-A-17175 ..... 04 p0612 N84-14040 #
GA-A-17188 ..... 03 p0450 N84-12957 #
GA-A-17276 ..... 05 p0750 N84-14923 #
GA-A-17325 ..... 19 p3108 N84-29750 #
GA-A-17386 ..... 20 p3305 N84-30993 #
GA-A-17427 ..... 18 p2814 N84-27867 #
GA-A-17450 ..... 15 p2410 N84-25469 #
GA-A-17483 ..... 20 p3303 N84-30976 #
GA-A-17510 ..... 20 p3282 N84-30841 #
GA-A-17528 ..... 21 p3501 N84-32186 #
GA-A-17545 ..... 22 p3605 N84-32842 #
GA-A-17593 ..... 22 p3659 N84-33197 #

GAC-19-1563 ..... 16 p2458 N84-25757 #
GAC-19-1615 ..... 19 p2980 N84-28887* #

GAO/GGD-83-71 ..... 02 p0303 N84-11987 #

GAO/IMTEC-84-2 ..... 09 p1370 N84-18944 #
GAO/IMTEC-84-7 ..... 14 p2203 N84-24221 #

GAO/MASAD-83-22 ..... 01 p0002 N84-10012 #

GAO/NSIAD-84-13 ..... 08 p1120 N84-17286 #
GAO/NSIAD-84-74 ..... 22 p3669 N84-33254 #
GAO/NSIAD-84-100 ..... 20 p3314 N84-31044 #

GAO/OACG-84-2 ..... 12 p1920 N84-22511 #

GAO/RCED-83-103 ..... 20 p3240 N84-30570 #
GAO/RCED-83-179 ..... 20 p3127 N84-29658 #
GAO/RCED-83-216 ..... 06 p1239 N84-18097 #
GAO/RCED-84-2 ..... 12 p1767 N84-21526 #
GAO/RCED-84-14 ..... 22 p3674 N84-33294 #
GAO/RCED-84-105 ..... 19 p2970 N84-28821 #
GAO/RCED-84-124 ..... 20 p3133 N84-29693 #
GAO/RCED-84-129 ..... 21 p3520 N84-32302 #
GAO/RCED-84-154 ..... 22 p3533 N84-32371 #

GARRETT-21-4314-1 ..... 06 p0805 N84-15247* #
GARRETT-21-4742-1 ..... 03 p0348 N84-12264* #
GARRETT-21-4742-2 ..... 03 p0348 N84-12265* #
GARRETT-21-4766 ..... 03 p0348 N84-12263* #
GARRETT-21-4804 ..... 17 p2609 N84-26702* #
GARRETT-31-3725(7) ..... 19 p3117 N84-29805* #

GC-TR-82-260 ..... 06 p0923 N84-16002 #
GC-TR-82-291 ..... 09 p1389 N84-19072 #
GC-TR-83-266 ..... 02 p0203 N84-11324 #
GC-TR-83-269 ..... 08 p1125 N84-17315 #
GC-TR-83-281 ..... 13 p1986 N84-22696 #
GC-TR-83-286 ..... 04 p0544 N84-13583 #

GCA-TR-82-86-G ..... 12 p1845 N84-22028 #

GCSS-TR-14 ..... 05 p0733 N84-14815 #

GCTG-24 ..... 21 p3401 N84-31573 #

GD-14 ..... 04 p0565 N84-13724 #

GDC-ASP-83-001 ..... 18 p2805 N84-27803* #
GDC-ASP-83-002 ..... 18 p2805 N84-27804* #
GDC-ASP-83-002 ..... 18 p2805 N84-27805* #
GDC-ASP-83-003 ..... 18 p2805 N84-27806* #
GDC-ASP-83-004 ..... 18 p2805 N84-27807* #

GDC-SP-83-067 ..... 10 p1434 N84-19377* #

GE-AEG-607R(10/80) ..... 07 p0953 N84-16183 #

GE-CRD-83-SRD-037 ..... 01 p0061 N84-10402* #

GE-82AEP022 ..... 12 p1823 N84-21888 #

GEC-CRD-83-SRD-038 ..... 01 p0061 N84-10403* #
GEC-CRD-83-SRD-039 ..... 01 p0061 N84-10404* #

GEC/DIS-TR-83-388200-7 ..... 02 p0273 N84-11784 #
GEC/DIS-TR-83-388200-8 ..... 02 p0273 N84-11783 #

GEOFLO/19 ..... 12 p1816 N84-21841 #
GEOFLO/20 ..... 21 p3403 N84-31587 #

GEOL-SURVEY-CIRC-908 ..... 14 p2170 N84-23998 #

GEOWISS-MITT-24-1983 ..... 03 p0402 N84-12628 #

GEPP-OP-754A ..... 19 p3116 N84-29802 #

GEPP-TIS-759 ..... 18 p2834 N84-27993 #
GEPP-TIS-786 ..... 15 p2385 N84-25304 #
GEPP-TIS-802 ..... 21 p3395 N84-31547 #

GER-17234 ..... 15 p2388 N84-25325* #

GFSC-84F5182 ..... 18 p2839 N84-28020* #

GHK-07 ..... 05 p0701 N84-14601 #

GIT-ICS-81/18-F ..... 15 p2418 N84-25520 #
GIT-ICS-82/16-VOL-1 ..... 19 p3076 N84-29518 #
GIT-ICS-82/16-VOL-2 ..... 19 p3076 N84-29519 #

GIT-TR-84-1 ..... 20 p3263 N84-30700 #

GIT/EES-A-2226-F ..... 01 p0070 N84-10460 #
GIT/EES-A-2519 ..... 06 p0847 N84-15527 #
GIT/EES-A-2550-FTR ..... 01 p0007 N84-10045 #
GIT/EES-A-2974 ..... 11 p1695 N84-21056 #

GJBX-3(83) ..... 06 p0866 N84-15638 #
GJBX-4-84 ..... 22 p3548 N84-32462 #
GJBX-36(83) ..... 04 p0554 N84-13647 #

GKSS-83-E-15 ..... 02 p0243 N84-11589 #
GKSS-83-E-38 ..... 10 p1463 N84-19554 #
GKSS-83-E-42 ..... 13 p2010 N84-23035 #
GKSS-83-E-60 ..... 14 p2174 N84-24019 #
GKSS-83-E-61 ..... 13 p2018 N84-23082 #
GKSS-83-E-63 ..... 15 p2349 N84-25098 #
GKSS-84-E-12 ..... 23 p3791 N84-34044 #

GL-3566 ..... 02 p0227 N84-11486 #
GL-3628 ..... 08 p1141 N84-17421 #
GL-3634 ..... 04 p0539 N84-13548* #
GL-3675 ..... 13 p2047 N84-23285 #
GL-3712 ..... 22 p3601 N84-32809 #

GLM-322 ..... 02 p0299 N84-11959 #
GLM-333 ..... 05 p0753 N84-14936 #

GLR-244 ..... 14 p2242 N84-24462 #

GMD-84 ..... 17 p2751 N84-27459

GMV-211/83 ..... 08 p1113 N84-17243 #

GO-1289-2 ..... 01 p0071 N84-10463 #

GPO-11-010 ..... 14 p2248 N84-24503 #
GPO-17-460 ..... 11 p1752 N84-21439 #
GPO-18-813 ..... 07 p1087 N84-17070 #
GPO-19-605 ..... 02 p0303 N84-11988 #
GPO-20-580 ..... 02 p0303 N84-11989 #
GPO-20-901 ..... 11 p1622 N84-20614 #
GPO-21-095 ..... 08 p1237 N84-18085 #
GPO-21-160 ..... 05 p0715 N84-14684 #
GPO-21-280 ..... 02 p0303 N84-11990 #
GPO-21-495 ..... 01 p0163 N84-11069 #
GPO-21-747 ..... 03 p0415 N84-12713 #
GPO-22-771 ..... 02 p0177 N84-11160 #
GPO-22-828 ..... 02 p0185 N84-11204 #
GPO-22-870 ..... 01 p0017 N84-10108 #
GPO-23-872 ..... 02 p0184 N84-11198 #
GPO-23-934 ..... 07 p1087 N84-17072 #
GPO-24-247 ..... 02 p0169 N84-11112 #
GPO-24-491 ..... 03 p0460 N84-13032 #
GPO-24-522 ..... 02 p0305 N84-12001 #
GPO-24-762 ..... 02 p0182 N84-11183 #
GPO-24-902 ..... 08 p1241 N84-18115 #
GPO-25-753 ..... 03 p0340 N84-12208 #
GPO-26-312 ..... 08 p1241 N84-18114 #
GPO-26-497 ..... 08 p1100 N84-17152 #
GPO-26-498 ..... 08 p1107 N84-17194 #
GPO-26-859 ..... 04 p0482 N84-13170 #
GPO-26-860 ..... 08 p1102 N84-17164 #
GPO-27-043 ..... 05 p0643 N84-14230 #
GPO-27-393 ..... 05 p0644 N84-14234 #
GPO-27-459 ..... 05 p0757 N84-14964 #
GPO-27-618 ..... 08 p1139 N84-17409 #
GPO-27-827 ..... 15 p2419 N84-25528 #
GPO-27-838 ..... 08 p1173 N84-17640 #
GPO-27-913 ..... 22 p3624 N84-32966 #
GPO-27-914 ..... 08 p1107 N84-17193 #
GPO-28-104 ..... 18 p2826 N84-27953 #
GPO-28-186 ..... 22 p3619 N84-32933 #
GPO-28-292 ..... 15 p2366 N84-25193 #
GPO-28-416 ..... 14 p2248 N84-24504 #
GPO-28-915 ..... 11 p1753 N84-21442 #
GPO-29-312 ..... 15 p2379 N84-25277 #
GPO-29-426 ..... 11 p1621 N84-20613 #
GPO-29-457 ..... 23 p3834 N84-34319 #
GPO-29-522 ..... 20 p3263 N84-30702 #
GPO-29-567 ..... 20 p3318 N84-31064 #
GPO-29-744 ..... 15 p2419 N84-25529 #
GPO-29-832 ..... 10 p1471 N84-19605 #
GPO-30-261 ..... 15 p2406 N84-25444 #
GPO-30-599 ..... 22 p3614 N84-32897 #
GPO-31-006 ..... 08 p1113 N84-17238 #
GPO-31-006 ..... 20 p3318 N84-31063 #
GPO-31-006 ..... 23 p3835 N84-34329 #
GPO-31-010 ..... 14 p2249 N84-24507 #
GPO-31-310 ..... 23 p3763 N84-33849 #
GPO-31-451 ..... 11 p1753 N84-21441 #
GPO-31-453 ..... 15 p2419 N84-25526 #
GPO-31-912 ..... 22 p3603 N84-32826 #
GPO-32-363 ..... 24 p3969 N84-35133 #
GPO-33-265 ..... 23 p3696 N84-33425 #
GPO-33-446 ..... 22 p3625 N84-32968 #
GPO-33-947 ..... 23 p3762 N84-33848 #
GPO-34-202 ..... 22 p3676 N84-33301 #
GPO-34-406 ..... 23 p3696 N84-33423 #
GPO-34-924 ..... 22 p3676 N84-33302 #
GPO-35-358 ..... 16 p2568 N84-26476 #
GPO-36-032 ..... 17 p2772 N84-27605 #
GPO-36-040 ..... 17 p2772 N84-27603 #
GPO-37-290 ..... 23 p3838 N84-34350 #
GPO-38-469 ..... 23 p3763 N84-33850 #
GPO-38-705 ..... 24 p3970 N84-35134 #
GPO-99-811 ..... 11 p1752 N84-21438 #

GPO-171 ..... 15 p2419 N84-25527 #
GPO-1984-784-698 ..... 18 p2953 N84-28715* #

GRC-CR-10-970 ..... 19 p3074 N84-29504 #

GRI-81/0025-7 ..... 03 p0409 N84-12677 #
GRI-81/0051 ..... 03 p0457 N84-13008 #
GRI-81/0109 ..... 14 p2135 N84-23795 #
GRI-81/0124 ..... 08 p1198 N84-17810 #
GRI-81/0125 ..... 02 p0198 N84-11289 #
GRI-81/0133 ..... 12 p1823 N84-21888 #
GRI-81/0142 ..... 02 p0202 N84-11316 #
GRI-81/0150 ..... 02 p0192 N84-11248 #
GRI-81/0162 ..... 03 p0358 N84-12329 #
GRI-81/0165 ..... 01 p0086 N84-10557 #
GRI-81/0166 ..... 01 p0054 N84-10347 #
GRI-81/0167 ..... 02 p0251 N84-11643 #
GRI-81/0168 ..... 05 p0682 N84-14482 #
GRI-81/0177 ..... 08 p1127 N84-17331 #
GRI-81/0197 ..... 10 p1532 N84-20036 #
GRI-81/0197-2 ..... 11 p1683 N84-20985 #
GRI-81/0199 ..... 08 p1168 N84-17608 #
GRI-82/0043 ..... 01 p0157 N84-11031 #
GRI-82/0048 ..... 02 p0251 N84-11644 #
GRI-82/0054 ..... 03 p0358 N84-12328 #
GRI-82/0069 ..... 01 p0059 N84-10384 #
GRI-82/0077 ..... 08 p1139 N84-17405 #
GRI-82/0082 ..... 08 p1128 N84-17333 #
GRI-82/0088 ..... 09 p1289 N84-18417 #
GRI-82/0094 ..... 08 p1128 N84-17332 #
GRI-82/0099 ..... 10 p1538 N84-20076 #
GRI-83/0003 ..... 09 p1291 N84-18429 #
GRI-83/0022 ..... 14 p2177 N84-24043 #
GRI-83/0023 ..... 15 p2288 N84-24731 #
GRI-83/0027 ..... 14 p2135 N84-23796 #
GRI-83/0069 ..... 17 p2620 N84-26770 #
GRI-83/0070 ..... 17 p2627 N84-26811 #
GRI-84/0001 ..... 14 p2130 N84-23771 #
GRI-84/0011 ..... 16 p2474 N84-25859 #
GRI-84/0012 ..... 22 p3564 N84-32575 #
GRI-84/0016 ..... 14 p2124 N84-23729 #
GRI-84/0022 ..... 17 p2639 N84-26884 #
GRI-84/0027 ..... 16 p2511 N84-26116 #
GRI-84/0028 ..... 16 p2519 N84-26173 #
GRI-84/0029 ..... 16 p2474 N84-25862 #
GRI-84/0036 ..... 20 p3171 N84-30138 #
GRI-84/0039 ..... 22 p3561 N84-32550 #
GRI-84/0041 ..... 17 p2696 N84-27176 #
GRI-84/0043 ..... 16 p2474 N84-25860 #
GRI-84/0048 ..... 22 p3562 N84-32560 #
GRI-84/0070 ..... 22 p3564 N84-32576 #
GRI-84/0084 ..... 21 p3375 N84-31417 #
GRI-84/0092 ..... 21 p3363 N84-31334 #
GRI-5080-342-0389 ..... 01 p0092 N84-10599 #

GRS-A-849 ..... 16 p2485 N84-25939

GR83-3 ..... 02 p0209 N84-11366 #

GS-CIRC-895-E ..... 10 p1525 N84-19987 #

GSF-A-6/83 ..... 16 p2520 N84-26180

GSFC-921 ..... 03 p0407 N84-12662* #

GSTR-84-4 ..... 18 p2877 N84-28266* #
GSTR-84-5 ..... 12 p1918 N84-22495* #

GT/PDL-170 ..... 15 p2262 N84-24586* #
GT/PDL-171 ..... 06 p0822 N84-15360* #

GTD-83-10 ..... 03 p0343 N84-12227* #

GTEC-21-4498 ..... 12 p1822 N84-21879* #
GTEC-31-5738 ..... 23 p3836 N84-34331* #

GTFR-37 ..... 03 p0445 N84-12922 #
GTFR-43 ..... 05 p0750 N84-14926 #
GTFR-44 ..... 21 p3502 N84-32197 #
GTFR-46 ..... 21 p3501 N84-32191 #
GTFR-47 ..... 20 p3306 N84-30996 #

GTL-176 ..... 07 p0953 N84-16180* #

GU-AERO-8300 ..... 15 p2257 N84-24554 #
GU-AERO-8302 ..... 15 p2264 N84-24595 #
GU-AERO-8305 ..... 15 p2264 N84-24596 #
GU-AERO-8306 ..... 15 p2257 N84-24553 #

GU-154 ..... 05 p0739 N84-14852 #

GUUS-02847 ..... 12 p1899 N84-22369 #

GWU-SEAS-TR-83-FI-3 ..... 05 p0680 N84-14468 #

GWU/IMSE/SERIAL-T-471/82 ..... 12 p1881 N84-22264 #

GWU/IMSE/SERIAL-T-472/83 ..... 12 p1882 N84-22265 #
GWU/IMSE/SERIAL-T-485/84 ..... 21 p3515 N84-32267 #
GWU/IMSE/SERIAL-T-487/84 ..... 20 p3312 N84-31034 #

GWU/IRRA/TR-83/2 ..... 24 p3939 N84-34931 #
GWU/IRRA/TR-83/3 ..... 06 p0855 N84-15567 #

G80143 ..... 03 p0383 N84-12496 #

H-REPT-98-15 ..... 15 p2419 N84-25528 #
H-REPT-98-147 ..... 02 p0303 N84-11989 #
H-REPT-98-509 ..... 08 p1113 N84-17238 #
H-REPT-98-510 ..... 08 p1102 N84-17164 #
H-REPT-98-593 ..... 08 p1173 N84-17640 #
H-REPT-98-629 ..... 11 p1753 N84-21441 #
H-REPT-98-629 ..... 11 p1753 N84-21444 #
H-REPT-98-647 ..... 20 p3318 N84-31063 #
H-REPT-98-803 ..... 14 p2249 N84-24508 #
H-REPT-98-816 ..... 23 p3835 N84-34329 #
H-REPT-98-867 ..... 17 p2772 N84-27603 #
H-REPT-98-873 ..... 17 p2772 N84-27605 #
H-REPT-98-1108 ..... 23 p3763 N84-33850 #

H-83-03 ..... 04 p0488 N84-13208* #
H-83-06 ..... 06 p0938 N84-16097* #
H-84-04 ..... 23 p3698 N84-33432* #
H-84-05 ..... 23 p3698 N84-33433* #
H-1165 ..... 18 p2787 N84-27686* #
H-1185 ..... 13 p1931 N84-22557* #
H-1186 ..... 09 p1257 N84-18203* #
H-1189 ..... 11 p1606 N84-20514* #
H-1190 ..... 12 p1789 N84-21537* #
H-1195 ..... 05 p0627 N84-14122* #
H-1196 ..... 05 p0628 N84-14129* #
H-1197 ..... 06 p0858 N84-15588* #
H-1200 ..... 19 p2965 N84-28792* #
H-1204 ..... 07 p0952 N84-16176* #
H-1205 ..... 18 p2796 N84-27743* #
H-1209 ..... 11 p1607 N84-20520* #
H-1211 ..... 05 p0757 N84-14965* #
H-1212 ..... 08 p1115 N84-17250* #
H-1213 ..... 05 p0632 N84-14157* #
H-1213 ..... 07 p0951 N84-16168* #
H-1216 ..... 07 p0958 N84-16213* #
H-1217 ..... 22 p3535 N84-32384* #
H-1219 ..... 08 p1170 N84-17620* #
H-1227 ..... 11 p1615 N84-20566* #
H-1228 ..... 09 p1330 N84-18685* #
H-1233 ..... 11 p1607 N84-20521* #
H-1237 ..... 11 p1606 N84-20515* #
H-1240 ..... 15 p2262 N84-24587* #
H-1242 ..... 20 p3128 N84-29863* #
H-1243 ..... 20 p3130 N84-29879* #
H-1245 ..... 20 p3131 N84-29884* #
H-1246 ..... 20 p3131 N84-29885* #
H-1247 ..... 15 p2262 N84-24588* #
H-1254 ..... 18 p2802 N84-27785* #
H-1256 ..... 21 p3328 N84-31112* #
H-1267 ..... 23 p3695 N84-33415* #

HAC-E6093 ..... 08 p1104 N84-17180 #
HAC-E9224 ..... 11 p1703 N84-21103 #

HAC-FR-83-78-725 ..... 14 p2122 N84-23720 #

HAC-P30759 ..... 11 p1703 N84-21103 #

HAC-REF-E5112 ..... 01 p0070 N84-10455 #

HDL-CR-83-076-1 ..... 04 p0505 N84-13313 #
HDL-CR-83-107-5 ..... 09 p1302 N84-18513 #
HDL-CR-83-107-6 ..... 05 p0667 N84-14384 #
HDL-CR-83-117-1 ..... 16 p2499 N84-26031 #
HDL-CR-84-076-1 ..... 17 p2623 N84-26790 #

HDL-SR-83-8 ..... 03 p0371 N84-12417 #
HDL-SR-83-9 ..... 05 p0679 N84-14465 #

HDL-TM-83-6 ..... 01 p0070 N84-10454 #
HDL-TM-83-11 ..... 01 p0029 N84-10184 #
HDL-TM-83-20 ..... 09 p1367 N84-18925 #
HDL-TM-83-22 ..... 14 p2142 N84-23844 #

HDL-TR-1994 ..... 10 p1577 N84-20331 #
HDL-TR-1995 ..... 03 p0444 N84-12919 #
HDL-TR-1996 ..... 10 p1585 N84-20391 #
HDL-TR-2005 ..... 07 p0997 N84-16464 #
HDL-TR-2009 ..... 19 p3089 N84-29609 #
HDL-TR-2011 ..... 05 p0643 N84-14232 #
HDL-TR-2017 ..... 02 p0209 N84-11368 #
HDL-TR-2026 ..... 15 p2410 N84-25467 #
HDL-TR-2029 ..... 15 p2329 N84-24984 #
HDL-TR-2035 ..... 20 p3309 N84-31015 #
HDL-TR-2038 ..... 23 p3732 N84-33652 #
HDL-TR-2040 ..... 17 p2768 N84-27574 #
HDL-TR-2041 ..... 18 p2846 N84-28073 #

HEC-TP-95 ..... 19 p3041 N84-29295 #

HEDL-SA-2714 ..... 01 p0085 N84-10552 #
HEDL-SA-2723-FP ..... 03 p0439 N84-12884 #
HEDL-SA-2768-FP ..... 02 p0194 N84-11263 #
HEDL-SA-2776-FP ..... 01 p0098 N84-10636 #
HEDL-SA-2777 ..... 01 p0082 N84-10530 #
HEDL-SA-2786 ..... 07 p0976 N84-16322 #
HEDL-SA-2859-FP ..... 05 p0685 N84-14504 #
HEDL-SA-2890-FP ..... 03 p0385 N84-12510 #
HEDL-SA-2895-FP ..... 06 p0855 N84-15570 #
HEDL-SA-2896 ..... 05 p0656 N84-14315 #
HEDL-SA-2897 ..... 08 p1135 N84-17379 #
HEDL-SA-2904-FP ..... 10 p1461 N84-19539 #
HEDL-SA-2907-FP ..... 05 p0693 N84-14553 #
HEDL-SA-2909-FP ..... 06 p0806 N84-15255 #
HEDL-SA-2911-FP ..... 07 p1083 N84-17045 #
HEDL-SA-2912-FP ..... 08 p1133 N84-17368 #
HEDL-SA-2913 ..... 06 p0862 N84-15615 #
HEDL-SA-2923 ..... 10 p1494 N84-19787 #
HEDL-SA-2926 ..... 14 p2123 N84-23726 #
HEDL-SA-2982 ..... 07 p0975 N84-16320 #
HEDL-SA-2984-FP ..... 06 p0806 N84-15254 #
HEDL-SA-2986 ..... 06 p0855 N84-15569 #
HEDL-SA-3005-FP ..... 20 p3155 N84-30034 #
HEDL-SA-3014FP ..... 21 p3413 N84-31645 #
HEDL-SA-3065-FP ..... 14 p2223 N84-24343 #
HEDL-SA-3077-FP ..... 20 p3196 N84-30314 #
HEDL-SA-3128-FP ..... 21 p3469 N84-31989 #

HEDL-TC-2425 ..... 11 p1709 N84-21138 #

HEDL-TME-82-46 ..... 01 p0120 N84-10777 #
HEDL-TME-83-19 ..... 03 p0446 N84-12935 #

HEDL-21-2788-FP ..... 03 p0354 N84-12300 #
HEDL-7364 ..... 02 p0196 N84-11273 #
HEDL-7419 ..... 10 p1462 N84-19547 #
HEDL-7432 ..... 20 p3155 N84-30035 #
HEDL-7437 ..... 15 p2411 N84-25470 #
HEDL-7444 ..... 22 p3555 N84-32513 #
HEDL-7451 ..... 22 p3549 N84-32485 #
HEDL-7458 ..... 23 p3719 N84-33578 #

HEL-TM-1-84 ..... 10 p1553 N84-20180 #

HEL-TN-5-84 ..... 16 p2446 N84-25687 #

HEPL-922 ..... 13 p2043 N84-23255 #
HEPL-925 ..... 11 p1663 N84-20848 #
HEPL-929 ..... 13 p1995 N84-22949 #

HH-80-415 ..... 23 p3695 N84-33418* #

HHS/PUB/FDA-83-4168 ..... 01 p0061 N84-10400 #
HHS/PUB/FDA-83-8100 ..... 01 p0114 N84-10742 #
HHS/PUB/FDA-83-8220 ..... 08 p1165 N84-17587 #
HHS/PUB/FDA-84-8222 ..... 20 p3191 N84-30271 #

HL-83-22 ..... 02 p0287 N84-11882* #
HL-83-40 ..... 07 p1069 N84-16941* #
HL-84-12 ..... 21 p3490 N84-32115* #
HL-84-13 ..... 21 p3490 N84-32116* #
HL-84-14 ..... 18 p2928 N84-28569* #
HL-84-15 ..... 21 p3490 N84-32117* #
HL-84-23 ..... 22 p3651 N84-33145* #
HL-84-24 ..... 22 p3652 N84-33146* #

HMI-B-380 ..... 17 p2664 N84-26994 #
HMI-B-381 ..... 15 p2399 N84-25398 #
HMI-B-381 ..... 15 p2399 N84-25399 #
HMI-B-387 ..... 15 p2322 N84-24941 #
HMI-B-389 ..... 08 p1226 N84-18008 #

HMT-36 ..... 14 p2146 N84-23864 #

HOME-FIRE-PROJECT-TR-53-VOL-1 ..... 10 p1469 N84-19595 #
HOME-FIRE-PROJECT-TR-57 ..... 08 p1101 N84-17162 #

HPP-MEMO-83-41 ..... 15 p2396 N84-25371 #

HPP-83-17 ..... 15 p2396 N84-25370 #

HPR-101 ..... 06 p0894 N84-15808 #

HR-78500037 ..... 13 p1934 N84-22583* #

HRL-TR-3 ..... 21 p3504 N84-32205 #
HRL-TR-4 ..... 21 p3504 N84-32207 #

HSER-8858 ..... 04 p0485 N84-13186*

HT-31.82.11 ..... 09 p1317 N84-18602 #

HTC-1 ..... 18 p2836 N84-28002* #

HUD-0002841	02	p0301	N84-11978	#
HUMRRO-FR-TRD(KY)-83-6	11	p1701	N84-21098	#
HUMRRO-FR-TRD(VA)-83-7	21	p3386	N84-31492	#
H1206	06	p0791	N84-15159*	#
I-ARA-83-U-62	09	p1321	N84-18627	#
IA-PUBL-95	01	p0164	N84-11078	#
IA-127/84	18	p2849	N84-28093	#
IAE-372/8	21	p3503	N84-32200	#
IAE-3351/7	12	p1909	N84-22437	#
IAF-83-220	08	p1109	N84-17208	
IAF-84-15	22	p3540	N84-32411*	#
IAM-409	17	p2746	N84-27433	#
IAP-TR-83-5	24	p3916	N84-34796	#
IC-82/220	24	p3912	N84-34776	#
IC-83/37	24	p3896	N84-34672	#
IC-83/58	24	p3962	N84-35092	#
IC-83/67	24	p3884	N84-34611	#
IC-83/119	24	p3960	N84-35070	#
IC-83/136	24	p3964	N84-35102	#
IC-83/150	24	p3966	N84-35111	#
IC-83/154	24	p3967	N84-35122	#
IC-83/157	24	p3881	N84-34587	#
IC-83/158	24	p3967	N84-35123	#
ICASE-83-45	01	p0076	N84-10499*	#
ICASE-83-49	01	p0128	N84-10836*	#
ICASE-83-56	03	p0424	N84-12777*	#
ICASE-83-59	03	p0420	N84-12742*	#
ICASE-83-61	03	p0425	N84-12778*	#
ICASE-83-65	04	p0531	N84-13493*	#
ICASE-84-1	06	p1211	N84-17899*	#
ICASE-84-2	06	p1170	N84-17621*	#
ICASE-84-5	10	p1420	N84-19285*	#
ICASE-84-8	10	p1568	N84-20274*	#
ICASE-84-9	10	p1568	N84-20275*	#
ICASE-84-10	10	p1420	N84-19286*	#
ICASE-84-11	11	p1712	N84-21165*	#
ICASE-84-12	12	p1893	N84-22327*	#
ICASE-84-15	17	p2667	N84-27004*	#
ICASE-84-16	19	p3082	N84-29557*	#
ICASE-84-17	19	p3021	N84-29158*	#
ICASE-84-18	19	p3082	N84-29558*	#
ICASE-84-19	19	p3021	N84-29159*	#
ICASE-84-20	19	p3082	N84-29559*	#
ICASE-84-21	19	p3082	N84-29560*	#
ICASE-84-22	22	p3645	N84-33107*	#
ICASE-84-23	19	p3095	N84-29655*	#
ICASE-84-24	19	p3082	N84-29562*	#
ICASE-84-25	19	p3074	N84-29503*	#
ICASE-84-26	20	p3135	N84-29903*	#
ICASE-84-27	21	p3470	N84-31993*	#
ICASE-84-28	22	p3530	N84-32349*	#
ICASE-84-29	20	p3279	N84-30816*	#
ICASE-84-30	20	p3279	N84-30817*	#
ICASE-84-31	20	p3280	N84-30818*	#
ICASE-84-32	20	p3126	N84-29652*	#
ICASE-84-33	20	p3277	N84-30800*	#
ICASE-84-34	21	p3469	N84-31988*	#
ICASE-84-36	22	p3637	N84-33053*	#
ICASE-84-37	22	p3645	N84-33113*	#
ICASE-84-38	22	p3645	N84-33111*	#
ICASE-84-39	22	p3645	N84-33112*	#
ICASE-84-40	22	p3645	N84-33106*	#
ICASE-84-41	22	p3637	N84-33059*	#
ICMA-82-35	06	p0903	N84-15861	#
ICMA-83-58	01	p0064	N84-10417	#
ICMA-83-59	01	p0131	N84-10857	#
ICMA-84-69	19	p3084	N84-29571	#
ICMA-84-71	20	p3281	N84-30830	#
ICMA-84-72	19	p3088	N84-29607	#
ICS-8305	09	p1364	N84-18907	#
ICS-8306	11	p1714	N84-21178	#
ICS-8401	13	p2029	N84-23155	#
ICS-8402	18	p2915	N84-28486	#
ICS-8403	17	p2759	N84-27515	#
ICS-8406	20	p3314	N84-31050	#
ICSCA-CMP-29	03	p0420	N84-12745	#
ICSCA-CMP-35	01	p0123	N84-10799	#
ICSCA-CMP-36	01	p0133	N84-10868	#
ICSCA-CMP-37	01	p0121	N84-10785	#
IDA-D-18	10	p1503	N84-19825	#
IDA-D-19	20	p3129	N84-29873	#
IDA-D-20	19	p3007	N84-29057	#
IDA-D-21	20	p3129	N84-29874	#
IDA-D-22	21	p3343	N84-31211	#
IDA-D-23	20	p3127	N84-29860	#
IDA-D-24	19	p3007	N84-29058	#
IDA-D-26	20	p3199	N84-30322	#
IDA-D-27	10	p1503	N84-19826	#
IDA-D-28	10	p1503	N84-19827	#
IDA-D-29	10	p1504	N84-19828	#
IDA-D-30	11	p1666	N84-20867	#
IDA-D-31	10	p1504	N84-19829	#
IDA-D-32	10	p1504	N84-19830	#
IDA-D-33-PT-1	10	p1504	N84-19831	#
IDA-D-34	16	p2477	N84-25878	#
IDA-D-36	10	p1504	N84-19834	#
IDA-D-37	14	p2156	N84-23919	#
IDA-D-38	10	p1504	N84-19832	#
IDA-D-39	10	p1504	N84-19833	#
IDA-D-40	10	p1504	N84-19835	#
IDA-D-41	10	p1504	N84-19836	#
IDA-D-42	11	p1646	N84-20766	#
IDA-D-49	12	p1882	N84-22267	#
IDA-P-1715	07	p0992	N84-16431	#
IDA-P-1733	24	p3969	N84-35132	#
IDA-P-1744	18	p2944	N84-28667	#
IDA-P-1774	24	p3942	N84-34958	#
IDA/HQ-83-25416	07	p0992	N84-16431	#
IDA/HQ-83-25682	24	p3969	N84-35132	#
IDA/HQ-83-25894	20	p3129	N84-29873	#
IDA/HQ-83-25895	20	p3129	N84-29874	#
IDA/HQ-83-25896	19	p3007	N84-29058	#
IDA/HQ-83-25897	10	p1504	N84-19829	#
IDA/HQ-83-25898	10	p1504	N84-19830	#
IDA/HQ-83-25899	10	p1504	N84-19834	#
IDA/HQ-83-25900	10	p1504	N84-19832	#
IDA/HQ-83-25901	10	p1504	N84-19833	#
IDA/HQ-83-25921	14	p2156	N84-23919	#
IDA/HQ-83-25924	10	p1504	N84-19836	#
IDA/HQ-83-25930	19	p3007	N84-29057	#
IDA/HQ-83-25935	20	p3127	N84-29860	#
IDA/HQ-83-25936	20	p3199	N84-30322	#
IDA/HQ-83-25942	10	p1503	N84-19825	#
IDA/HQ-83-25944	10	p1503	N84-19827	#
IDA/HQ-83-25964	11	p1666	N84-20867	#
IDA/HQ-83-25969	21	p3343	N84-31211	#
IDA/HQ-83-25987	18	p2944	N84-28667	#
IDA/HQ-83-28041	10	p1503	N84-19826	#
IDA/HQ-83-28045	10	p1504	N84-19835	#
IDA/HQ-83-28104	10	p1504	N84-19831	#
IDA/HQ-83-28139	10	p1504	N84-19828	#
IDA/HQ-83-28203	11	p1646	N84-20766	#
IDA/HQ-83-28250	16	p2477	N84-25878	#
IDA/HQ-83-28304	12	p1882	N84-22267	#
IDA/HQ-84-28529	24	p3942	N84-34958	#
IEC-MO-80/11	23	p3732	N84-33656	#
IFAORS-146	01	p0106	N84-10686	#
IFD-3/83	14	p2221	N84-24329	#
IFSI-82-1	05	p0705	N84-14626	#
IFSI-82-2	05	p0705	N84-14627	#
IFSI-82-3	05	p0677	N84-14450	#
IFSI-82-4	03	p0362	N84-12358	#
IFSI-82-5	03	p0409	N84-12675	#
IFSI-82-6	03	p0475	N84-13129	#
IFSI-82-7	05	p0761	N84-14993	#
IFSI-82-8	05	p0720	N84-14720	#
IFSI-82-9	03	p0463	N84-13049*	#
IFSI-82-10	03	p0409	N84-12676	#
IFSI-82-11	03	p0362	N84-12359	#
IFSI-82-12	03	p0363	N84-12360	#
IFSI-82-13	03	p0451	N84-12965	#
IFSI-82-14	03	p0463	N84-13050	#
IFSI-82-15	03	p0363	N84-12361	#
IFSI-82-16	03	p0475	N84-13130	#
IFSI-83-1	05	p0677	N84-14451	#
IFSI-83-2	03	p0465	N84-13062	#
IFSI-83-3	03	p0405	N84-12653	#
IFSI-83-4	05	p0686	N84-14508	#
IFSI-83-5	05	p0761	N84-14994	#
IFSI-83-6	05	p0762	N84-14999	#
IFSI-83-7	03	p0363	N84-12362	#
IFSI-83-8	05	p0677	N84-14452	#
IFSI-83-9	05	p0683	N84-14492	
IFSI-83-10	18	p2835	N84-27995	#
IFSI-83-11	18	p2954	N84-28722	#
IFSI-83-12	18	p2954	N84-28723	#
IFSI-83-13	18	p2954	N84-28724	#
IFSI-83-14	18	p2953	N84-28717	#
IFSI-83-15	18	p2922	N84-28534	#
IFSI-83-17	18	p2881	N84-28291	#

IFSI-84-1 ..... 18 p2831 N84-27972 #
IFSI-84-2 ..... 18 p2831 N84-27973 #
IFSI-84-3 ..... 18 p2850 N84-28096 #
IFSI-84-4 ..... 18 p2934 N84-28608 #
IFSI-84-5 ..... 18 p2934 N84-28609 #
IFSI-84-6 ..... 18 p2807 N84-27823 #
IFSI-84-7 ..... 18 p2953 N84-28718 #
IFSI-84-9 ..... 18 p2953 N84-28719 #

IFSM-83-117 ..... 05 p0693 N84-14548 #
IFSM-83-121 ..... 10 p1459 N84-19528 #
IFSM-83-122 ..... 10 p1459 N84-19527 #

IFSR-111 ..... 06 p0921 N84-15988 #
IFSR-116 ..... 12 p1911 N84-22448 #
IFSR-117 ..... 11 p1737 N84-21335 #
IFSR-128 ..... 14 p2230 N84-24378 #

IIASA-RR-83-28 ..... 15 p2365 N84-25192
IIASA-RR-83-29 ..... 15 p2416 N84-25503
IIASA-RR-83-34 ..... 15 p2360 N84-25161

IIASA-SR-84-1 ..... 19 p3057 N84-29394

IIHR-LD-REPORT-113 ..... 08 p1158 N84-17539 #

IIHR-TC-3 ..... 11 p1652 N84-20787 #

IIHR-266 ..... 08 p1160 N84-17554 #
IIHR-270 ..... 12 p1816 N84-21837 #
IIHR-272 ..... 22 p3596 N84-32773 #
IIHR-274 ..... 22 p3615 N84-32905 #

IITRI-E06516-6 ..... 08 p1144 N84-17445 #
IITRI-E06549-2 ..... 17 p2672 N84-27028 #

IITRI-K06038-1 ..... 01 p0043 N84-10277 #

IITRI-M06054-48 ..... 21 p3343 N84-31210 #
IITRI-M06116-15 ..... 19 p2992 N84-28961* #

IL-ENR/RE-83/27 ..... 17 p2611 N84-26716 #

IL/SGS/IMN-87 ..... 04 p0565 N84-13725 #

ILL-(TH)-84-10 ..... 11 p1712 N84-21164 #

ILMATIEDE-106 ..... 07 p1035 N84-16716 #
ILMATIEDE-110 ..... 18 p2883 N84-28294 #

ILR-MITT-123 ..... 10 p1435 N84-19379 #
ILR-MITT-124/1983 ..... 12 p1823 N84-21887 #

ILR-55 ..... 09 p1272 N84-18307 #

IMI-679 ..... 18 p2816 N84-27878 #

IND-FB-110 ..... 09 p1369 N84-18942 #
IND-FB-112 ..... 07 p0994 N84-16446 #

INDU/DC/GMH/TR-83-57 ..... 06 p0920 N84-15982 #
INDU/DC/GMH/TR-83-58 ..... 09 p1391 N84-19085 #
INDU/DC/GMH/TR-84-59 ..... 12 p1907 N84-22426 #
INDU/DC/GMH/TR-84-60 ..... 12 p1909 N84-22440 #
INDU/DC/GMH/TR-84-61 ..... 14 p2222 N84-24334 #
INDU/DC/GMH/TR-84-62 ..... 14 p2122 N84-23719 #

INDU/DC/TR-83/5-MC ..... 06 p0915 N84-15951 #
INDU/DC/TR-84/1-MC ..... 19 p2987 N84-28930 #

INFN-375 ..... 23 p3819 N84-34219 #

INFN/TC-82/5 ..... 02 p0275 N84-11798 #

INFORM-NOTE-29 ..... 17 p2725 N84-27341 #

INIS-MF-8653 ..... 24 p3884 N84-34612 #

INPE-2586-PRE/234 ..... 22 p3625 N84-32967 #
INPE-2707-TDL/130 ..... 09 p1298 N84-18485 #
INPE-2719-PRE/305 ..... 16 p2548 N84-26351* #
INPE-2727-TDL/133 ..... 07 p1032 N84-16697 #
INPE-2741-PRE/320 ..... 11 p1656 N84-20803 #
INPE-2743-TDL/134 ..... 10 p1596 N84-20463 #
INPE-2744-TDL/135 ..... 10 p1484 N84-19704 #
INPE-2746-PRE/322 ..... 22 p3540 N84-32409 #
INPE-2747-PRE/323 ..... 10 p1436 N84-19384 #
INPE-2748-PRE/324 ..... 10 p1435 N84-19380 #
INPE-2749-PRE/325 ..... 10 p1436 N84-19383 #
INPE-2750-PRE/326 ..... 04 p0568 N84-13884 #
INPE-2754-PRE/330 ..... 04 p0488 N84-13209 #
INPE-2755-PRE/331 ..... 09 p1265 N84-18263 #
INPE-2756-PRE/332 ..... 09 p1270 N84-18295 #
INPE-2757-PRE/333 ..... 15 p2270 N84-24628 #
INPE-2759-MD/023 ..... 15 p2286 N84-24717 #
INPE-2761-PRE/336 ..... 22 p3668 N84-33251 #
INPE-2763-PRE/337 ..... 07 p0961 N84-16232 #
INPE-2764-PRE/338 ..... 08 p1211 N84-17898 #
INPE-2766-PRE/339 ..... 10 p1591 N84-20423 #
INPE-2768-PRE/341 ..... 09 p1381 N84-19017 #
INPE-2769-PRE/342 ..... 04 p0568 N84-13883 #
INPE-2771-PRE/344 ..... 15 p2417 N84-25512 #
INPE-2772-RPE/435 ..... 07 p1023 N84-16632 #
INPE-2773-TDL/136 ..... 08 p1215 N84-17926 #
INPE-2777-RPE/436 ..... 11 p1671 N84-20904 #
INPE-2780-TDL/137 ..... 10 p1539 N84-20082 #
INPE-2781-PRE/347 ..... 23 p3813 N84-34180 #
INPE-2782-PRE/348 ..... 08 p1239 N84-18100 #
INPE-2784-PRE/350 ..... 09 p1366 N84-18920 #
INPE-2786-PRE/352 ..... 23 p3832 N84-34306 #
INPE-2788-RPE/437 ..... 07 p1020 N84-16616* #
INPE-2789-NTE/201 ..... 07 p0980 N84-16352 #
INPE-2790-PRE/353 ..... 09 p1399 N84-19135 #
INPE-2791-PRE/354 ..... 23 p3763 N84-33852 #
INPE-2792-TDL/138 ..... 04 p0524 N84-13446 #
INPE-2794-PRE/356 ..... 04 p0524 N84-13445 #
INPE-2795-PRE/357 ..... 05 p0686 N84-14379 #
INPE-2796-PRE/358 ..... 11 p1642 N84-20733 #
INPE-2801-PRE/361 ..... 05 p0721 N84-14727 #
INPE-2803-PRE/363 ..... 02 p0186 N84-11205 #
INPE-2806-PRE/366 ..... 02 p0203 N84-11320 #
INPE-2809-PRE/367 ..... 02 p0239 N84-11567 #
INPE-2810-PRE/368 ..... 02 p0248 N84-11623 #
INPE-2811-PRE/369 ..... 03 p0451 N84-12967 #
INPE-2812-TDL/139 ..... 02 p0208 N84-11357 #
INPE-2813-RPE/438 ..... 02 p0193 N84-11251 #
INPE-2814-PRE/370 ..... 23 p3740 N84-33705 #
INPE-2815-PRE/371 ..... 23 p3730 N84-33638 #
INPE-2817-PRE/372 ..... 02 p0247 N84-11619 #
INPE-2820-PRE/374 ..... 15 p2357 N84-25143 #
INPE-2822-PRE/376 ..... 02 p0208 N84-11355 #
INPE-2823-PRE/377 ..... 02 p0208 N84-11356 #
INPE-2824-PRE/378 ..... 02 p0208 N84-11354 #
INPE-2826-PRE/379 ..... 02 p0279 N84-11830 #
INPE-2829-PRE/381 ..... 02 p0248 N84-11621 #
INPE-2831-PRE/382 ..... 02 p0222 N84-11454 #
INPE-2835-PRE/384 ..... 02 p0298 N84-11952 #
INPE-2838-PRE/385 ..... 02 p0247 N84-11618 #
INPE-2839-PRE/386 ..... 02 p0253 N84-11655 #
INPE-2842-TDL/140 ..... 02 p0308 N84-12020 #
INPE-2843-TDL/141 ..... 02 p0184 N84-11194 #
INPE-2845-TDL/142 ..... 02 p0185 N84-11203
INPE-2846-PRE/388 ..... 02 p0286 N84-11874 #
INPE-2847-PRE/389 ..... 02 p0270 N84-11766 #
INPE-2848-RPE/439 ..... 02 p0247 N84-11617 #
INPE-2850-PRE/391 ..... 23 p3730 N84-33637 #
INPE-2851-NTE/203 ..... 17 p2726 N84-27351 #
INPE-2852-PRE/392 ..... 23 p3763 N84-33854 #
INPE-2854-PRE/394 ..... 23 p3699 N84-33444 #
INPE-2855-TDL/143 ..... 02 p0286 N84-11875 #
INPE-2856-PRE/395 ..... 23 p3792 N84-34052 #
INPE-2857-PRE/396 ..... 23 p3792 N84-34053 #
INPE-2858-RPE/440 ..... 14 p2167 N84-23980* #
INPE-2864-PRE/399 ..... 02 p0288 N84-11891 #
INPE-2865-PRE/400 ..... 02 p0272 N84-11776 #
INPE-2867-PRE/401 ..... 01 p0099 N84-10641* #
INPE-2869-RPE/441 ..... 23 p3763 N84-33855 #
INPE-2870-RPE/442 ..... 02 p0239 N84-11568 #
INPE-2873-PRE/402 ..... 02 p0277 N84-11816 #
INPE-2874-NTE/204 ..... 23 p3763 N84-33853 #
INPE-2876-NTE/205 ..... 17 p2726 N84-27352 #
INPE-2877-PRE/403 ..... 02 p0271 N84-11775 #
INPE-2878-TDL/144 ..... 02 p0239 N84-11566 #
INPE-2879-PRE/404 ..... 23 p3763 N84-33851 #
INPE-2882-RPE/443 ..... 04 p0553 N84-13640* #
INPE-2885-PRE/407 ..... 04 p0619 N84-14083 #
INPE-2886-NTE/206 ..... 23 p3834 N84-34320 #
INPE-2888-PRE/408 ..... 23 p3814 N84-34182 #
INPE-2889-TDL/145 ..... 17 p2614 N84-26733 #
INPE-2890-PRE/409 ..... 02 p0239 N84-11564 #
INPE-2891-PRE/410 ..... 02 p0239 N84-11565 #
INPE-2892-PRE/411 ..... 02 p0193 N84-11252 #
INPE-2893-PRE/412 ..... 22 p3639 N84-33073 #
INPE-2893-PRE/417 ..... 03 p0359 N84-12337 #
INPE-2894-PRE/413 ..... 04 p0578 N84-13813 #
INPE-2895-PRE/414 ..... 02 p0296 N84-11953 #
INPE-2896-PRE/415 ..... 04 p0553 N84-13639* #
INPE-2897-PRE/416 ..... 04 p0562 N84-13707 #
INPE-2899-PRE/418 ..... 02 p0253 N84-11657 #
INPE-2900-TDL/148 ..... 17 p2764 N84-27554 #
INPE-2901-PRE/419 ..... 02 p0248 N84-11620 #
INPE-2903-PRE/420 ..... 02 p0253 N84-11656 #
INPE-2904-RPE/444 ..... 17 p2737 N84-27386 #
INPE-2906-TDL/147 ..... 17 p2780 N84-27653 #
INPE-2907-PRE/421 ..... 02 p0305 N84-12000 #
INPE-2908-PRE/422 ..... 07 p1031 N84-16690 #
INPE-2909-TDL/148 ..... 13 p1938 N84-22604 #
INPE-2910-PRE/423 ..... 07 p1031 N84-16691 #
INPE-2911-PRE/424 ..... 07 p1079 N84-17015 #
INPE-2912-PRE/425 ..... 13 p2016 N84-23072 #
INPE-2913-TDL/149 ..... 13 p2092 N84-23549 #
INPE-2914-PRE/426 ..... 07 p1031 N84-16689 #

INPE-2915-PRE/427 ..... 07 p1087 N84-17071 #
INPE-2916-PRE/428 ..... 13 p2026 N84-23133 #
INPE-2936-RPE/445 ..... 13 p2018 N84-23086 #
INPE-2940-PHE/429 ..... 03 p0376 N84-12446 #
INPE-2941-TDL/150 ..... 17 p2711 N84-27257* #
INPE-2942-TDL/151 ..... 22 p3622 N84-32953 #
INPE-2943-NTE/207 ..... 17 p2652 N84-26958 #
INPE-2944-NTE/208 ..... 17 p2652 N84-26959 #
INPE-2946-PRE/430 ..... 07 p1023 N84-16634 #
INPE-2948-PRE/431 ..... 22 p3614 N84-32899 #
INPE-2949-PRE/432 ..... 07 p1023 N84-16635 #
INPE-2950-PRE/433 ..... 07 p1093 N84-17108 #
INPE-2952-PRE/434 ..... 07 p1020 N84-16618* #
INPE-2953-PRE/435 ..... 07 p1032 N84-16695 #
INPE-2969-RPE/448 ..... 13 p2010 N84-23040 #
INPE-2970-PRE/436 ..... 07 p1092 N84-17104 #
INPE-2971-NTE/209 ..... 23 p3632 N84-34307 #
INPE-2972-RPE/449 ..... 23 p3803 N84-34112 #
INPE-2973-NTE/210 ..... 17 p2711 N84-27259 #
INPE-2974-PRE/437 ..... 23 p3796 N84-34073 #
INPE-2975-RPE/450 ..... 22 p3627 N84-32982 #
INPE-2976-PRE/438 ..... 22 p3627 N84-32983 #
INPE-2977-PRE/439 ..... 07 p1068 N84-16936 #
INPE-2978-PRE/440 ..... 22 p3639 N84-33074 #
INPE-2979-PRE/441 ..... 07 p1032 N84-16694 #
INPE-2980-PRE/442 ..... 22 p3645 N84-33110 #
INPE-2981-PRE/443 ..... 07 p1071 N84-16958 #
INPE-2982-RPE/451 ..... 23 p3814 N84-34181 #
INPE-2984-NTE/211 ..... 22 p3539 N84-32407 #
INPE-2985-PRE/444 ..... 07 p1088 N84-17076 #
INPE-2987-TDL/152 ..... 22 p3643 N84-33100 #
INPE-2988-RPE/452 ..... 17 p2711 N84-27260 #
INPE-2990-PRE/445 ..... 07 p1020 N84-16617* #
INPE-2991-NTE/212 ..... 17 p2710 N84-27256* #
INPE-2992-TDL/153 ..... 22 p3639 N84-33075 #
INPE-2994-PRE/446 ..... 07 p1032 N84-16696 #
INPE-2995-PRE/447 ..... 14 p2167 N84-23979* #
INPE-2996-PRE/448 ..... 12 p1912 N84-22456 #
INPE-2997-PRE/449 ..... 12 p1859 N84-22114 #
INPE-2998-PRE/450 ..... 12 p1847 N84-22041 #
INPE-2999-PRE/451 ..... 12 p1860 N84-22115* #
INPE-3001-MD/024 ..... 17 p2752 N84-27464 #
INPE-3002-PRE/452 ..... 17 p2726 N84-27350 #
INPE-3003-TDL/154 ..... 17 p2757 N84-27504 #
INPE-3005-NTE/213 ..... 17 p2711 N84-27261 #
INPE-3007-PRE/453 ..... 17 p2757 N84-27499 #
INPE-3008-PRE/454 ..... 12 p1846 N84-22033 #
INPE-3010-RPE/454 ..... 17 p2614 N84-26732 #
INPE-3012-PRE/455 ..... 17 p2749 N84-27449 #
INPE-3013-PRE/456 ..... 17 p2752 N84-27466 #
INPE-3014-PRE/457 ..... 17 p2749 N84-27450 #
INPE-3016-TDL/155 ..... 17 p2752 N84-27465 #
INPE-3021-PRE/459 ..... 12 p1846 N84-22034 #
INPE-3022-PRE/460 ..... 12 p1846 N84-22035 #
INPE-3023-PRE/461 ..... 12 p1846 N84-22036 #
INPE-3024-PRE/462 ..... 12 p1846 N84-22037 #
INPE-3025-PRE/463 ..... 12 p1847 N84-22040 #
INPE-3026-PRE/464 ..... 12 p1847 N84-22039 #
INPE-3027-PRE/465 ..... 12 p1847 N84-22038 #
INPE-3029-PRE/466 ..... 17 p2733 N84-27373 #
INPE-3033-NTE/214 ..... 17 p2616 N84-26745 #
INPE-3034-PRE/468 ..... 17 p2752 N84-27467 #
INPE-3036-NTE/215 ..... 17 p2612 N84-26717 #
INPE-3038-PRE/469 ..... 21 p3442 N84-31839 #
INPE-3039-TDL/156 ..... 17 p2775 N84-27622 #
INPE-3045-TDL/157 ..... 22 p3662 N84-33212 #
INPE-3047-PRE/470 ..... 16 p2548 N84-26350 #
INPE-3048-PRE/471 ..... 16 p2559 N84-26420 #
INPE-3050-RPE/455 ..... 16 p2455 N84-25740 #
INPE-3052-PRE/473 ..... 16 p2573 N84-26516 #
INPE-3055-PRE/475 ..... 23 p3740 N84-33706 #
INPE-3056-PRE/476 ..... 17 p2752 N84-27463 #
INPE-3057-PRE/477 ..... 23 p3814 N84-34183 #
INPE-3058-PRE/478 ..... 17 p2751 N84-27462 #
INPE-3061-NTE/216 ..... 16 p2509 N84-26100 #
INPE-3063-PRE/480 ..... 16 p2507 N84-26090* #
INPE-3064-PRE/481 ..... 16 p2559 N84-26418 #
INPE-3065-PRE/482 ..... 16 p2558 N84-26408 #
INPE-3066-PRE/483 ..... 16 p2559 N84-26416 #
INPE-3067-PRE/484 ..... 16 p2561 N84-26428 #
INPE-3068-PRE/485 ..... 16 p2545 N84-26338 #
INPE-3069-PRE/486 ..... 23 p3812 N84-34171 #
INPE-3070-PRE/487 ..... 22 p3614 N84-32898 #
INPE-3071-PRE/488 ..... 16 p2521 N84-26181 #
INPE-3072-TDL/160 ..... 17 p2610 N84-26707 #
INPE-3075-TDL/161 ..... 16 p2548 N84-26349 #
INPE-3076-PRE/489 ..... 16 p2506 N84-26087* #
INPE-3077-PRE/490 ..... 16 p2506 N84-26083* #
INPE-3078-PRE/491 ..... 16 p2507 N84-26091* #
INPE-3081-PRE/493 ..... 16 p2559 N84-26417 #
INPE-3084-PRE/494 ..... 16 p2507 N84-26092* #
INPE-3089-PRE/496 ..... 16 p2508 N84-26095* #
INPE-3090-TDL/163 ..... 16 p2543 N84-26322 #
INPE-3092-PRE/497 ..... 16 p2532 N84-26255 #
INPE-3093-TDL/164 ..... 16 p2547 N84-26348 #
INPE-3094-PRE/498 ..... 16 p2559 N84-26419 #
INPE-3095-TDL/165 ..... 22 p3657 N84-33180 #
INPE-3097-NTE/217 ..... 17 p2652 N84-26957 #
INPE-3098-NTE/218 ..... 16 p2508 N84-26094* #
INPE-3100-PRE/499 ..... 16 p2508 N84-26093* #
INPE-3101-PRE/500 ..... 16 p2507 N84-26088* #
INPE-3102-PRE/501 ..... 16 p2532 N84-26256 #
INPE-3103-PRE/502 ..... 16 p2581 N84-26551 #
INPE-3104-PRE/503 ..... 16 p2534 N84-26271 #
INPE-3105-PRE/504 ..... 16 p2506 N84-26081* #
INPE-3106-PRE/505 ..... 16 p2546 N84-26339 #
INPE-3107-PRE/506 ..... 16 p2481 N84-25906 #
INPE-3108-PRE/507 ..... 16 p2509 N84-26101 #
INPE-3110-PRE/509 ..... 16 p2528 N84-26229 #
INPE-3113-PRE/510 ..... 16 p2508 N84-26096* #
INPE-3116-PRE/512 ..... 21 p3443 N84-31844 #
INPE-3118-PRE/513 ..... 16 p2558 N84-26407 #
INPE-3121-PRE/514 ..... 16 p2528 N84-26231 #
INPE-3122-PRE/515 ..... 16 p2507 N84-26089* #
INPE-3123-MD/025 ..... 16 p2497 N84-26021 #
INPE-3124-MD/026 ..... 16 p2495 N84-26006 #
INPE-3125-PRE/516 ..... 16 p2541 N84-26311 #
INPE-3126-PRE/517 ..... 16 p2455 N84-25739 #
INPE-3128-PRE/519 ..... 16 p2483 N84-25925 #
INPE-3131-PRE/522 ..... 23 p3833 N84-34313 #
INPE-3132-PRE/523 ..... 23 p3833 N84-34312 #
INPE-3133-PRE/524 ..... 23 p3832 N84-34309 #
INPE-3134-PRE/525 ..... 23 p3817 N84-34205 #
INPE-3135-PRE/526 ..... 23 p3814 N84-34184 #
INPE-3136-PRE/527 ..... 21 p3443 N84-31843 #
INPE-3137-NTE/219 ..... 24 p3858 N84-34456 #
INPE-3139-PRE/528 ..... 21 p3443 N84-31846 #
INPE-3140-TDL/168 ..... 23 p3699 N84-33446 #
INPE-3143-PRE/529 ..... 21 p3443 N84-31845 #
INPE-3145-PRE/530 ..... 21 p3427 N84-31738* #
INPE-3146-RPE/456 ..... 23 p3800 N84-34094 #
INPE-3147-PRE/531 ..... 23 p3833 N84-34314 #
INPE-3148-NTE/220 ..... 23 p3730 N84-33639 #
INPE-3152-TDL/169 ..... 23 p3814 N84-34185 #
INPE-3158-TDL/170 ..... 23 p3753 N84-33790 #
INPE-3160-PRE/534 ..... 21 p3470 N84-31994 #
INPE-3161-NTE/221 ..... 23 p3801 N84-34097 #
INPE-3163-RPE/458 ..... 23 p3699 N84-33445 #
INPE-3165-TDL/171 ..... 23 p3797 N84-34075 #
INPE-3166-PRE/536 ..... 23 p3818 N84-34206 #
INPE-3168-PRE/538 ..... 21 p3471 N84-31998 #
INPE-3169-PRE/539 ..... 23 p3797 N84-34079 #
INPE-3170-PRE/540 ..... 21 p3465 N84-31965 #
INPE-3171-PRE/541 ..... 21 p3391 N84-31516 #
INPE-3172-PRE/542 ..... 21 p3465 N84-31964 #
INPE-3173-PRE/543 ..... 23 p3741 N84-33712 #
INPE-3174-RPE/459 ..... 23 p3833 N84-34311 #
INPE-3177-PRE/544 ..... 21 p3391 N84-31515 #
INPE-3179-TDL/172 ..... 23 p3798 N84-34081 #
INPE-3180-PRE/545 ..... 21 p3327 N84-31106 #
INPE-3181-PRE/546 ..... 21 p3471 N84-31996 #
INPE-3182-PRE/547 ..... 21 p3471 N84-31997 #
INPE-3183-PRE/548 ..... 21 p3471 N84-31995 #
INPE-3184-PRE/549 ..... 21 p3349 N84-31245 #
INPE-3185-PRE/550 ..... 21 p3349 N84-31246 #
INPE-3186-PRE/551 ..... 21 p3349 N84-31243 #
INPE-3187-PRE/552 ..... 21 p3465 N84-31963 #
INPE-3189-PRE/553 ..... 23 p3730 N84-33640 #
INPE-3191-PRE/555 ..... 21 p3391 N84-31517 #
INPE-3192-PRE/556 ..... 21 p3500 N84-32181 #
INPE-3193-PRE/557 ..... 21 p3409 N84-31618 #
INPE-3194-PRE/558 ..... 21 p3447 N84-31870 #
INPE-3196-PRE/560 ..... 21 p3447 N84-31869 #
INPE-3197-TDL/173 ..... 23 p3832 N84-34310 #
INPE-3198-PRE/561 ..... 23 p3712 N84-33531 #
INPE-3200-PRE/562 ..... 21 p3353 N84-31271* #
INPE-3201-NTE/222 ..... 23 p3800 N84-34095 #
INPE-3202-RPE/460 ..... 23 p3800 N84-34093 #
INPE-3205-PRE/563 ..... 21 p3442 N84-31840 #
INPE-3206-PRE/564 ..... 21 p3349 N84-31244 #
INPE-3207-PRE/565 ..... 21 p3447 N84-31868 #
INPE-3209-PRE/566 ..... 23 p3797 N84-34080 #
INPE-3210-TDL/174 ..... 23 p3764 N84-33856 #
INPE-3214-PRE/567 ..... 21 p3446 N84-31867 #
INPE-3221-RPE/461 ..... 21 p3434 N84-31785 #
INPE-3222-PRE/573 ..... 24 p3990 N84-35245 #
INPE-3223-PRE/574 ..... 24 p3966 N84-35115 #
INPE-3225-PRE/576 ..... 24 p3922 N84-34824 #
INPE-3226-PRE/577 ..... 24 p3922 N84-34823 #
INPE-3227-PRE/578 ..... 24 p3918 N84-34806 #
INPE-3230-PRE/580 ..... 24 p3918 N84-34805 #
INPE-3232-PRE/582 ..... 24 p3949 N84-35006 #
INPE-3233-PRE/583 ..... 24 p3964 N84-35103 #
INPE-3235-PRE/584 ..... 24 p3859 N84-34458 #
INPE-3236-PRE/585 ..... 24 p3949 N84-35004 #
INPE-3238-PRE/586 ..... 24 p3949 N84-35005 #
INPE-3241-PRE/587 ..... 24 p3992 N84-35264* #
INPE-3242-PRE/588 ..... 24 p3990 N84-35246 #
INPE-3244-PRE/590 ..... 24 p3866 N84-34500 #
INPE-3260-RPE/464 ..... 24 p3935 N84-34906 #
INPE-3263-PRE/594 ..... 24 p3950 N84-35007 #
INPE-3264-PRE/595 ..... 24 p3922 N84-34825 #

INPE-3272-PRE/597 ..... 24 p3995 N84-35262 #
INPE-3274-PRE/598 ..... 24 p3923 N84-34826 #
INPE-3275-PRE/599 ..... 24 p3987 N84-35239 #

INTA-INFORME-I-1/221/720/83047 ..... 06 p0811 N84-15281 #

INTA-NT-N-223/410/83.038 ..... 18 p2821 N84-27913 #

IOE/CE-83-01 ..... 03 p0359 N84-12334 #
IOE/CE-83-02 ..... 04 p0516 N84-13392 #

IOS-132 ..... 13 p2019 N84-23090 #
IOS-133 ..... 07 p1041 N84-16753 #
IOS-134 ..... 02 p0258 N84-11689 #
IOS-146 ..... 02 p0258 N84-11690 #
IOS-147 ..... 02 p0258 N84-11691 #
IOS-148 ..... 02 p0258 N84-11692 #
IOS-155 ..... 07 p1042 N84-16754 #
IOS-158 ..... 19 p3062 N84-29430 #
IOS-159-PT-1 ..... 13 p1991 N84-22922 #
IOS-159-PT-2 ..... 13 p1991 N84-22923 #
IOS-161 ..... 15 p2366 N84-25198 #
IOS-162 ..... 07 p1074 N84-16983 #
IOS-163 ..... 15 p2372 N84-25232 #
IOS-165 ..... 15 p2372 N84-25233 #
IOS-166 ..... 20 p3299 N84-30950 #
IOS-167 ..... 18 p2891 N84-28353 #
IOS-168 ..... 18 p2881 N84-28290 #
IOS-169 ..... 18 p2893 N84-28360 #
IOS-170 ..... 18 p2892 N84-28354
IOS-178 ..... 19 p3062 N84-29431 #

IPF-83-1 ..... 14 p2151 N84-23889 #
IPF-83-2 ..... 14 p2231 N84-24379 #
IPF-83-3 ..... 12 p1911 N84-22453 #
IPF-83-4 ..... 14 p2231 N84-24380 #
IPF-83-5 ..... 12 p1911 N84-22454 #
IPF-83-6 ..... 10 p1581 N84-20357 #
IPF-83-7 ..... 14 p2223 N84-24341 #

IPL-TR-033 ..... 04 p0580 N84-13824 #

IPOS-ONR-1 ..... 10 p1455 N84-19506 #

IPP-1/220 ..... 13 p2044 N84-23262
IPP-2/271 ..... 20 p3200 N84-30327
IPP-6/219 ..... 02 p0286 N84-11878
IPP-6/223 ..... 03 p0424 N84-12776
IPP-6/230 ..... 13 p2044 N84-23262
IPP-6/234 ..... 20 p3301 N84-30961

IPPJ-AM-28 ..... 03 p0444 N84-12914 #
IPPJ-AM-29 ..... 03 p0443 N84-12913 #
IPPJ-AM-30 ..... 03 p0443 N84-12912 #
IPPJ-AM-31 ..... 03 p0443 N84-12911 #
IPPJ-AM-32 ..... 07 p1076 N84-16992 #
IPPJ-AM-33 ..... 11 p1734 N84-21310 #
IPPJ-AM-34 ..... 15 p2409 N84-25459 #

IPPJ-639 ..... 01 p0148 N84-10975 #
IPPJ-640 ..... 03 p0444 N84-12916 #
IPPJ-641 ..... 03 p0444 N84-12915 #
IPPJ-642 ..... 03 p0443 N84-12909 #
IPPJ-643 ..... 03 p0443 N84-12910 #
IPPJ-644 ..... 06 p0919 N84-15973 #
IPPJ-645 ..... 06 p0919 N84-15974 #
IPPJ-646 ..... 06 p0919 N84-15975 #
IPPJ-647 ..... 06 p0919 N84-15976 #
IPPJ-648 ..... 10 p1580 N84-20354 #
IPPJ-649 ..... 10 p1580 N84-20351 #
IPPJ-650 ..... 10 p1580 N84-20352 #
IPPJ-651 ..... 10 p1580 N84-20350 #
IPPJ-652 ..... 10 p1580 N84-20353 #
IPPJ-653 ..... 10 p1580 N84-20356 #
IPPJ-654 ..... 11 p1734 N84-21309 #
IPPJ-655 ..... 10 p1580 N84-20355 #
IPPJ-656 ..... 11 p1734 N84-21308 #
IPPJ-657 ..... 11 p1734 N84-21307 #
IPPJ-658 ..... 11 p1734 N84-21306 #
IPPJ-659 ..... 11 p1733 N84-21304 #
IPPJ-660 ..... 13 p2044 N84-23265 #
IPPJ-661 ..... 11 p1733 N84-21302 #
IPPJ-662 ..... 11 p1734 N84-21305 #
IPPJ-663 ..... 12 p1909 N84-22438 #
IPPJ-664 ..... 13 p2044 N84-23263 #
IPPJ-665 ..... 13 p2044 N84-23264 #
IPPJ-666 ..... 15 p2409 N84-25460 #
IPPJ-667 ..... 15 p2409 N84-25461 #
IPPJ-668 ..... 15 p2410 N84-25463 #
IPPJ-669 ..... 15 p2409 N84-25462 #
IPPJ-670 ..... 17 p2766 N84-27565 #
IPPJ-671 ..... 19 p3106 N84-29735 #
IPPJ-672 ..... 19 p3106 N84-29734 #
IPPJ-673 ..... 19 p3106 N84-29736 #
IPPJ-674 ..... 20 p3302 N84-30966 #
IPPJ-675 ..... 20 p3301 N84-30965 #
IPPJ-676 ..... 20 p3301 N84-30964 #
IPPJ-677 ..... 20 p3301 N84-30963 #
IPPJ-678 ..... 21 p3500 N84-32184 #
IPPJ-679 ..... 21 p3500 N84-32182 #
IPPJ-680 ..... 21 p3500 N84-32183 #
IPPJ-681 ..... 23 p3827 N84-34274 #
IPPJ-682 ..... 23 p3827 N84-34271 #
IPPJ-683 ..... 23 p3827 N84-34272 #
IPPJ-684 ..... 23 p3827 N84-34273 #
IPPJ-685 ..... 23 p3826 N84-34267 #
IPPJ-686 ..... 23 p3826 N84-34268 #
IPPJ-687 ..... 23 p3826 N84-34269 #
IPPJ-688 ..... 23 p3827 N84-34270 #
IPPJ-690 ..... 24 p3965 N84-35105 #

IPR-2 ..... 03 p0444 N84-12918 #
IPR-195 ..... 09 p1377 N84-18993 #

IR-AL-016 ..... 08 p1102 N84-17167* #
IR-AL-017 ..... 08 p1107 N84-17196* #
IR-AL-020 ..... 15 p2389 N84-25334* #
IR-AL-026 ..... 15 p2389 N84-25335* #
IR-AL-032 ..... 21 p3465 N84-31966* #

IR-MA-142-1 ..... 05 p0726 N84-14767 #

IR-1 ..... 10 p1525 N84-19992 #
IR-1 ..... 12 p1861 N84-22123 #
IR-1 ..... 19 p2961 N84-28765 #
IR-1 ..... 20 p3228 N84-30513 #
IR-2 ..... 03 p0420 N84-12740
IR-2 ..... 05 p0747 N84-14907 #
IR-2 ..... 07 p1056 N84-16840 #
IR-2 ..... 09 p1257 N84-18205 #
IR-2 ..... 11 p1641 N84-20730 #
IR-3 ..... 04 p0481 N84-13166 #
IR-5 ..... 01 p0069 N84-10451* #
IR-5 ..... 24 p3934 N84-34902 #
IR-6 ..... 11 p1888 N84-21012 #
IR-6 ..... 19 p3104 N84-29719 #
IR-9 ..... 07 p1039 N84-16738 #
IR-10 ..... 20 p3245 N84-30597 #
IR-15 ..... 10 p1438 N84-19390 #
IR-36 ..... 13 p2000 N84-22975* #
IR-38 ..... 14 p2157 N84-23921* #
IR-42 ..... 16 p2460 N84-25768* #
IR-45 ..... 16 p2460 N84-25769* #
IR-46 ..... 19 p2986 N84-28919* #
IR-676-2 ..... 05 p0726 N84-14769 #
IR-677-2 ..... 05 p0727 N84-14773 #
IR-678-2 ..... 05 p0726 N84-14766 #
IR-679-1 ..... 05 p0727 N84-14772 #
IR-681-1 ..... 05 p0727 N84-14774 #
IR-682-1 ..... 05 p0727 N84-14771 #

IRA-83-P-6 ..... 12 p1782 N84-21629 #

IRIG-104-63-PT-1-ETR ..... 12 p1861 N84-22122 #
IRIG-104-63-PT-1-LKH ..... 10 p1590 N84-20421 #

IRT-8203-005 ..... 06 p0848 N84-15528 #
IRT-8213-002 ..... 06 p0914 N84-15943 #

IS-M-401 ..... 01 p0097 N84-10633 #
IS-M-417 ..... 02 p0232 N84-11525 #
IS-M-422 ..... 02 p0188 N84-11225 #
IS-M-428 ..... 03 p0455 N84-12997 #
IS-M-429 ..... 06 p0811 N84-15279 #
IS-M-433 ..... 03 p0386 N84-12513 #
IS-M-434 ..... 03 p0362 N84-12353 #
IS-M-435 ..... 03 p0437 N84-12864 #
IS-M-436 ..... 03 p0351 N84-12282 #
IS-M-438 ..... 03 p0390 N84-12547 #
IS-M-440 ..... 03 p0385 N84-12512 #
IS-M-441 ..... 04 p0596 N84-13930 #
IS-M-443 ..... 04 p0549 N84-13620 #
IS-M-444 ..... 04 p0595 N84-13928 #
IS-M-445 ..... 03 p0333 N84-12167 #
IS-M-446 ..... 03 p0431 N84-12825 #
IS-M-447 ..... 03 p0431 N84-12827 #
IS-M-448 ..... 04 p0550 N84-13621 #
IS-M-450 ..... 03 p0347 N84-12259 #
IS-M-452 ..... 03 p0442 N84-12903 #
IS-M-453 ..... 03 p0347 N84-12252 #
IS-M-454 ..... 03 p0351 N84-12280 #
IS-M-455 ..... 03 p0355 N84-12307 #
IS-M-456 ..... 04 p0546 N84-13599 #
IS-M-459 ..... 06 p0924 N84-16010 #
IS-M-460 ..... 03 p0431 N84-12824 #
IS-M-465 ..... 21 p3423 N84-31712 #
IS-M-466 ..... 21 p3505 N84-32212 #
IS-M-469 ..... 21 p3360 N84-31316 #
IS-M-474 ..... 20 p3158 N84-30054 #
IS-M-476 ..... 22 p3659 N84-33194 #
IS-M-488 ..... 22 p3607 N84-32852 #
IS-M-491 ..... 22 p3664 N84-33231 #

IS-N-449 ..... 04 p0546 N84-13598 #

IS-T-1069 ..... 20 p3156 N84-30042 #
IS-T-1076 ..... 15 p2406 N84-25440 #
IS-T-1112 ..... 15 p2299 N84-24798 #
IS-T-1179 ..... 14 p2129 N84-23762 #

IS-4813 ..... 02 p0291 N84-11910 #
IS-4815 ..... 08 p1221 N84-17971 #
IS-4817 ..... 02 p0196 N84-11271 #
IS-4838 ..... 07 p1014 N84-16575 #

ISAS-SP-2 ..... 20 p3168 N84-30114 #

ISAS-604 ..... 07 p0960 N84-16225 #
ISAS-607 ..... 07 p0965 N84-16252 #
ISAS-608 ..... 06 p0938 N84-16094 #
ISAS-610 ..... 20 p3165 N84-30103 #
ISAS-611 ..... 20 p3240 N84-30568 #
ISAS-612 ..... 20 p3308 N84-31008 #

ISBN-0-03-057913-9 ..... 03 p0402 N84-12627 #
ISBN-0-11-884357-2 ..... 18 p2880 N84-28289 #
ISBN-0-85-356151-6 ..... 18 p2813 N84-27856
ISBN-0-85-356152-4 ..... 18 p2852 N84-28106
ISBN-0-85-356156-7 ..... 18 p2931 N84-28583
ISBN-0-85-356162-1 ..... 18 p2850 N84-28099
ISBN-0-85-356174-5 ..... 18 p2852 N84-28107
ISBN-0-309-03335-7 ..... 01 p0165 N84-11080 #
ISBN-0-309-03380-2 ..... 02 p0302 N84-11979 #
ISBN-0-309-03386-1 ..... 09 p1291 N84-18428 #
ISBN-0-309-03389-6 ..... 16 p2526 N84-26220 #
ISBN-0-309-03425-6 ..... 12 p1862 N84-22135 #
ISBN-0-309-03427-2 ..... 15 p2365 N84-25191 #
ISBN-0-309-03437-X ..... 14 p2124 N84-23732 #
ISBN-0-309-03443-4 ..... 17 p2729 N84-27368 #
ISBN-0-309-03516-3 ..... 05 p0701 N84-14602 #
ISBN-0-309-03565-1 ..... 14 p2135 N84-23798 #
ISBN-0-387-90966-4 ..... 20 p3305 N84-30994 #
ISBN-0-472-08037-7 ..... 03 p0401 N84-12625 #
ISBN-0-472-10032-7 ..... 03 p0401 N84-12625 #
ISBN-0-643-03582-6 ..... 10 p1533 N84-20040 #
ISBN-0-644-02606-4 ..... 23 p3797 N84-34076 #
ISBN-0-3559-7 ..... 12 p1804 N84-21763 #
ISBN-0-7988-1489-6 ..... 04 p0538 N84-13535 #
ISBN-0-7988-1717-8 ..... 04 p0566 N84-13733 #
ISBN-0-7988-2049-7 ..... 04 p0505 N84-13311 #
ISBN-0-7988-2053-5 ..... 04 p0566 N84-13734 #
ISBN-0-7988-2202-3 ..... 04 p0577 N84-13805 #
ISBN-0-7988-2210-4 ..... 04 p0543 N84-13579 #
ISBN-0-7988-2211-2 ..... 04 p0616 N84-14064 #
ISBN-0-7988-2325-9 ..... 04 p0573 N84-13776 #
ISBN-0-7988-2361-5 ..... 09 p1291 N84-18431 #
ISBN-0-7988-2364 ..... 08 p1167 N84-17600 #
ISBN-0-7988-2366-6 ..... 05 p0717 N84-14695 #
ISBN-0-7988-2367-4 ..... 04 p0577 N84-13806 #
ISBN-0-7988-2375-5 ..... 11 p1632 N84-20669 #
ISBN-0-7988-2376-3 ..... 07 p1015 N84-16584 #
ISBN-0-7988-2377-1 ..... 13 p1988 N84-22905 #
ISBN-0-7988-2410-7 ..... 04 p0493 N84-13236 #
ISBN-0-7988-2417-4 ..... 06 p0814 N84-15298 #
ISBN-0-7988-2419-0 ..... 04 p0493 N84-13235 #
ISBN-0-7988-2482-4 ..... 11 p1628 N84-20653 #
ISBN-0-7988-2501-4 ..... 07 p1032 N84-16693 #
ISBN-0-7988-2504-9 ..... 07 p0969 N84-16278 #
ISBN-0-7988-2519-7 ..... 06 p0796 N84-15188 #
ISBN-0-7988-2520-0 ..... 04 p0493 N84-13233 #
ISBN-0-7988-2547-2 ..... 04 p0524 N84-13444 #
ISBN-0-7988-2553-7 ..... 08 p1194 N84-17783 #
ISBN-0-7988-2556-1 ..... 09 p1292 N84-18438 #
ISBN-0-7988-2559-6 ..... 04 p0493 N84-13234 #
ISBN-0-7988-2566-9 ..... 07 p1094 N84-17115 #
ISBN-0-7988-2605-3 ..... 09 p1343 N84-18775 #
ISBN-0-7988-2606-1 ..... 04 p0486 N84-13192 #
ISBN-0-7988-2610-X ..... 07 p0945 N84-16133 #
ISBN-0-7988-2649-5 ..... 11 p1639 N84-20717 #
ISBN-0-7988-2657-6 ..... 07 p1059 N84-16861 #
ISBN-0-7988-3029-8 ..... 21 p3527 N84-32340 #
ISBN-0-8186-0016-0 ..... 14 p2189 N84-24115 #
ISBN-0-8330-0490-5 ..... 02 p0184 N84-11195 #
ISBN-0-8330-0529-4 ..... 14 p2113 N84-23664* #
ISBN-0-85679-306-X 07 p1014 N84-16577
ISBN-0-85679-326-0 ..... 07 p1014 N84-16579
ISBN-0-85679-331-0 ..... 07 p1014 N84-16578
ISBN-0-85679-375-2 ..... 07 p1015 N84-16581
ISBN-0-85679-381-7 ..... 07 p1014 N84-16580
ISBN-0-85679-402-3 ..... 07 p1011 N84-16559
ISBN-0-89883-081-8 ..... 12 p1822 N84-21877* #
ISBN-0-902553-27-5 ..... 10 p1594 N84-20446 #
ISBN-0-902553-29-1 ..... 16 p2569 N84-26485 #
ISBN-0-902553-29-1 ..... 18 p2947 N84-28683 #
ISBN-0-902937-93-6 ..... 11 p1601 N84-20484 #
ISBN-0-947767-01-0 ..... 21 p3398 N84-31555 #
ISBN-0-947767-02-9 ..... 21 p3358 N84-31302 #
ISBN-0-947767-05-3 ..... 19 p2957 N84-28744 #
ISBN-0-947767-10-X ..... 21 p3398 N84-31557 #

ISBN-0-947767-15-0 ..... 21 p3398 N84-31556 #
ISBN-2-7225-0694-7 ..... 16 p2544 N84-26330 #
ISBN-2-85872-115-8 ..... 17 p2725 N84-27341 #
ISBN-2-85929-016-8 ..... 18 p2867 N84-28202 #
ISBN-3-540-90966-4 ..... 20 p3305 N84-30994 #
ISBN-3-7045-0058-5 ..... 15 p2416 N84-25503
ISBN-3-7045-0061-5 ..... 15 p2365 N84-25192
ISBN-3-7045-0067-4 ..... 15 p2360 N84-25161
ISBN-3-7696-8178-9 ..... 02 p0235 N84-11540
ISBN-3-7696-8179-7 ..... 03 p0407 N84-12661
ISBN-3-7696-8557-1 ..... 02 p0235 N84-11541
ISBN-3-7696-8558-X 10 p1519 N84-19942
ISBN-3-7696-9326-4 ..... 03 p0392 N84-12554
ISBN-3-7696-9333-7 ..... 16 p2547 N84-26346
ISBN-3-7696-9334-5 ..... 16 p2505 N84-26079
ISBN-3-7696-9336-1 ..... 16 p2505 N84-26080
ISBN-3-7696-9338-8 ..... 18 p2952 N84-28711
ISBN-3-7696-81800 ..... 16 p2504 N84-26069
ISBN-3-7983-0856-X ..... 09 p1272 N84-18307 #
ISBN-3-7983-0857-8 ..... 19 p3028 N84-29204 #
ISBN-3-7983-0959-0 ..... 20 p3321 N84-31062 #
ISBN-3-8848-210-5 ..... 19 p3056 N84-29392
ISBN-3-87017-160-X ..... 10 p1458 N84-19522 #
ISBN-3-87977-0530 ..... 02 p0182 N84-11185 #
ISBN-3-88135-111-6 ..... 01 p0017 N84-10110 #
ISBN-3-88148-203-2 ..... 02 p0253 N84-11654
ISBN-3-88148-206-7 ..... 12 p1849 N84-22048
ISBN-3-88148-208-3 ..... 14 p2178 N84-24046
ISBN-3-88148-211-3 ..... 19 p3057 N84-29393
ISBN-3-88355-070-1 ..... 14 p2125 N84-23734
ISBN-82-63-12100-1 ..... 15 p2371 N84-25225 #
ISBN-87-550-0925-5 ..... 10 p1540 N84-20090 #
ISBN-87-7478-205-3 ..... 19 p3010 N84-29079 #
ISBN-87-7478-206-1 ..... 19 p3055 N84-29386 #
ISBN-87-7478-208-8 ..... 19 p3055 N84-29387 #
ISBN-87-7478-209-6 ..... 19 p3055 N84-29388 #
ISBN-87-7478-211-8 ..... 19 p3053 N84-29372 #
ISBN-87-7478-213-4 ..... 19 p3055 N84-29385 #
ISBN-87-7478-214-2 ..... 19 p3055 N84-29389 #
ISBN-87-7478-219-3 ..... 14 p2174 N84-24024 #
ISBN-90-12-04466-9 ..... 14 p2178 N84-24045
ISBN-90-353-0005-X ..... 20 p3159 N84-30060 #
ISBN-90-353-0006-8 ..... 20 p3188 N84-30254 #
ISBN-90-353-0007-6 ..... 20 p3265 N84-30718 #
ISBN-90-353-0008-4 ..... 20 p3204 N84-30352 #
ISBN-90-353-0009-2 ..... 20 p3238 N84-30558 #
ISBN-90-6144-127-7 ..... 10 p1489 N84-19735 #
ISBN-90-6144-128-5 ..... 10 p1566 N84-20260 #
ISBN-90-6144-129-3 ..... 10 p1566 N84-20261 #
ISBN-90-6144-130-7 ..... 10 p1565 N84-20254 #
ISBN-90-6144-131-4 ..... 10 p1489 N84-19736 #
ISBN-90-6144-131-5 ..... 10 p1566 N84-20262 #
ISBN-90-6144-132-3 ..... 10 p1483 N84-19698 #
ISBN-90-6144-133-1 ..... 13 p2048 N84-23289 #
ISBN-90-6144-134-X ..... 10 p1590 N84-20420 #
ISBN-90-6144-135-8 ..... 10 p1568 N84-20271 #
ISBN-90-6144-136-6 ..... 10 p1427 N84-19330 #
ISBN-90-6144-138-2 ..... 10 p1574 N84-20315 #
ISBN-90-6144-139-0 ..... 10 p1587 N84-20400 #
ISBN-90-6144-140-4 ..... 10 p1484 N84-19699 #
ISBN-90-6144-141-2 ..... 10 p1489 N84-19737 #
ISBN-90-6144-142-0 ..... 10 p1484 N84-19700 #
ISBN-90-6196-248-X ..... 08 p1223 N84-17990 #
ISBN-90-6196-249-8 ..... 08 p1225 N84-17999 #
ISBN-90-6196-251-X ..... 08 p1239 N84-18101 #
ISBN-90-6196-252-8 ..... 08 p1223 N84-17989 #
ISBN-90-6196-254-4 ..... 08 p1207 N84-17873 #
ISBN-90-6196-255-2 ..... 08 p1208 N84-17879 #
ISBN-90-6196-256-0 ..... 08 p1217 N84-17938 #
ISBN-90-6196-257-9 ..... 08 p1217 N84-17937 #
ISBN-90-6196-259-5 ..... 06 p1217 N84-17939 #
ISBN-90-6196-260-9 ..... 21 p3474 N84-32018 #
ISBN-90-6196-261-7 ..... 08 p1217 N84-17940 #
ISBN-90-6196-262-5 ..... 21 p3475 N84-32025 #
ISBN-90-6196-263-3 ..... 21 p3467 N84-31980 #
ISBN-90-6196-264-1 ..... 21 p3475 N84-32028 #
ISBN-90-6196-265-X ..... 21 p3474 N84-32019 #
ISBN-92-63-10617-7 ..... 13 p2017 N84-23078 #
ISBN-92-63-10618-5 ..... 06 p0882 N84-15741 #
ISBN-92-63-10623-1 ..... 13 p2019 N84-23089 #
ISBN-92-63-10626-6 ..... 18 p2886 N84-28314 #
ISBN-92-63-12134-6 ..... 03 p0412 N84-12697 #
ISBN-92-63-14168-1 ..... 15 p2358 N84-25145 #
ISBN-92-63-15008-4 ..... 08 p1191 N84-17764 #
ISBN-92-835-0257-4 ..... 06 p0867 N84-15646 #
ISBN-92-835-0332-5 ..... 03 p0317 N84-12072 #
ISBN-92-835-0333-3 ..... 01 p0032 N84-10203 #
ISBN-92-835-0334-1 ..... 03 p0321 N84-12099 #
ISBN-92-835-0335-X ..... 03 p0315 N84-12056 #
ISBN-92-835-0337-6 ..... 06 p0768 N84-15034 #
ISBN-92-835-0338-4 ..... 02 p0169 N84-11116 #
ISBN-92-835-0339-2 ..... 03 p0333 N84-12168 #
ISBN-92-835-0340-6 ..... 07 p0954 N84-16188 #
ISBN-92-835-0341-4 ..... 11 p1605 N84-20513 #
ISBN-92-835-0342-2 ..... 06 p0775 N84-15076 #
ISBN-92-835-0343-0 ..... 11 p1696 N84-21062 #

ISBN-92-835-0344-9 ..... 11 p1761 N84-21490 #
ISBN-92-835-0345-7 ..... 11 p1750 N84-21425 #
ISBN-92-835-0346-5 ..... 15 p2269 N84-24732 #
ISBN-92-835-0347-3 ..... 15 p2322 N84-24943 #
ISBN-92-835-0348-1 ..... 14 p2094 N84-23564 #
ISBN-92-835-0349-X ..... 15 p2265 N84-24603 #
ISBN-92-835-0350-3 ..... 16 p2452 N84-25723 #
ISBN-92-835-0351 ..... 16 p2446 N84-25691 #
ISBN-92-835-0352-X ..... 23 p3702 N84-33465 #
ISBN-92-835-0353-8 ..... 21 p3350 N84-31248 #
ISBN-92-835-0354-6 ..... 22 p3631 N84-33011 #
ISBN-92-835-0355-4 ..... 23 p3748 N84-33757 #
ISBN-92-835-0356-2 ..... 21 p3527 N84-32341 #
ISBN-92-835-0359-7 ..... 24 p3847 N84-34396 #
ISBN-92-835-1442-4 ..... 06 p0891 N84-15787 #
ISBN-92-835-1455-6 ..... 01 p0014 N84-10093 #
ISBN-92-835-1457-2 ..... 01 p0013 N84-10082 #
ISBN-92-835-1458-0 ..... 03 p0314 N84-12050 #
ISBN-92-835-1459-9 ..... 07 p1085 N84-17059 #
ISBN-92-835-1461-0 ..... 03 p0363 N84-12367 #
ISBN-92-835-1462-9 ..... 14 p2248 N84-24502 #
ISBN-92-835-1463-7 ..... 11 p1603 N84-20499 #
ISBN-92-835-1464-5 ..... 11 p1699 N84-21082 #
ISBN-92-835-1465-3 ..... 12 p1920 N84-22509 #
ISBN-92-835-1466-1 ..... 21 p3358 N84-31300 #
ISBN-92-835-1467-X ..... 16 p2434 N84-25613 #
ISBN-92-835-1468-8 ..... 16 p2536 N84-26279 #
ISBN-92-835-1471-8 ..... 22 p3538 N84-32401 #
ISBN-92-835-1472-6 ..... 16 p2436 N84-25625 #
ISBN-92-835-1473-4 ..... 22 p3539 N84-32402 #
ISBN-92-835-1474-2 ..... 23 p3813 N84-34177 #
ISBN-951-38-1582-X ..... 07 p1073 N84-16975 #
ISBN-951-38-1795-4 ..... 02 p0198 N84-11288 #
ISBN-951-38-1804-7 ..... 14 p2155 N84-23912 #
ISBN-951-38-1849-7 ..... 07 p1013 N84-16570 #
ISBN-951-38-1856-X ..... 07 p0977 N84-16333 #
ISBN-951-38-1875-6 ..... 07 p1017 N84-16599 #
ISBN-951-38-1891-8 ..... 15 p2336 N84-25021 #
ISBN-951-38-1910-8 ..... 15 p2296 N84-24777 #
ISBN-951-38-1915-9 ..... 15 p2296 N84-24778 #
ISBN-951-38-2014-9 ..... 20 p3199 N84-30318 #
ISBN-951-38-2015-7 ..... 19 p3033 N84-29240 #
ISBN-951-41-0468-4 ..... 12 p1892 N84-22325 #
ISBN-951-41-0476-5 ..... 21 p3475 N84-32027
ISBN-951-42-1235-5 ..... 13 p2012 N84-23052 #
ISBN-951-42-1281-9 ..... 13 p2012 N84-23053 #
ISBN-951-42-1737-3 ..... 18 p2900 N84-28398 #
ISBN-951-88-1822-5 ..... 14 p2156 N84-23920 #
ISBN-951-697-178-4 ..... 19 p3052 N84-29366 #
ISBN-951-697-189-X ..... 07 p1035 N84-16713 #
ISBN-951-697-190-3 ..... 07 p1035 N84-16716 #
ISBN-951-697-191-1 ..... 07 p1027 N84-16653 #
ISBN-951-697-193-8 ..... 07 p1035 N84-16714 #
ISBN-951-752-272-X ..... 09 p1310 N84-18566 #
ISBN-951-752-289-4 ..... 09 p1304 N84-18526 #
ISBN-951-752-332-7 ..... 09 p1304 N84-18527 #
ISBN-951-752-471-4 ..... 09 p1379 N84-19012 #
ISBN-951-752-570-2 ..... 09 p1413 N84-19241 #
ISBN-951-752-571-0 ..... 09 p1370 N84-18943 #
ISBN-951-752-627-X ..... 09 p1305 N84-18528 #
ISBN-951-752-702-0 ..... 09 p1390 N84-19080 #
ISBN-951-752-703-9 ..... 09 p1310 N84-18567 #
ISBN-951-752-762-4 ..... 09 p1337 N84-18733 #
ISBN-951-752-763-2 ..... 09 p1390 N84-19081 #
ISBN-951-752-764-0 ..... 09 p1305 N84-18529 #
ISBN-951-752-833-7 ..... 10 p1572 N84-20301 #
ISBN-951-752-960-0 ..... 09 p1416 N84-19288 #
ISBN-951-752-966-X ..... 04 p0483 N84-13175 #
ISBN-951-752-982-1 ..... 15 p2424 N84-25564 #
ISBN-951-752-983-X ..... 15 p2328 N84-24978 #
ISBN-951-752-984-8 ..... 15 p2320 N84-24927 #
ISBN-951-752-987-2 ..... 15 p2320 N84-24928 #
ISBN-951-753-071-4 ..... 09 p1417 N84-19289 #
ISBN-951-753-083-8 ..... 15 p2320 N84-24925 #
ISBN-951-753-085-4 ..... 15 p2320 N84-24926 #
ISBN-951-753-158-3 ..... 12 p1765 N84-21512 #
ISBN-0141-4089 ..... 07 p1014 N84-16578
ISBN-0141-4097 ..... 07 p1014 N84-16578
ISBN-0902-937-92-8 ..... 10 p1432 N84-19361 #
ISBN-0902937-88-X ..... 06 p0800 N84-15218 #
ISBN-0902937-89-8 ..... 06 p0801 N84-15219 #
ISBN-0902937-90-1 ..... 06 p0798 N84-15198 #
ISBN-0902937-97-9 ..... 16 p2475 N84-25864 #

ISD-298 ..... 16 p2502 N84-26056 #
ISD-299 ..... 15 p2417 N84-25513 #
ISD-300 ..... 15 p2390 N84-25337 #
ISD-301 ..... 16 p2484 N84-25929 #
ISD-304 ..... 15 p2396 N84-25376 #
ISD-307 ..... 15 p2396 N84-25377 #
ISD-309 ..... 16 p2557 N84-26402 #

ISFI-84-8 ..... 18 p2950 N84-28708 #

ISI-V-1768-02 ..... 05 p0730 N84-14793 #
ISI-V-1891-02 ..... 12 p1764 N84-21505 #
ISI-V-2693-102 ..... 01 p0137 N84-10897 #
ISI-V-3835-04 ..... 06 p1104 N84-17177 #
ISI-V-3836-05 ..... 03 p0457 N84-13010 #

ISI-24 ..... 11 p1605 N84-20512* #
ISI-29 ..... 14 p2209 N84-24261 #
ISI-41 ..... 20 p3277 N84-30802 #

ISI/RR-83-108-VOL-1 ..... 15 p2392 N84-25355 #
ISI/RR-83-109 ..... 15 p2392 N84-25356 #
ISI/RR-83-123 ..... 10 p1567 N84-20266 #
ISI/RR-84-127 ..... 16 p2546 N84-26342 #

ISI/RS-83-C-0335 ..... 19 p3074 N84-29505 #
ISI/RS-83-3 ..... 01 p0122 N84-10793 #
ISI/RS-83-5 ..... 09 p1303 N84-18515 #
ISI/RS-83-7 ..... 09 p1404 N84-19177 #
ISI/RS-83-8 ..... 08 p1215 N84-17929 #
ISI/RS-83-9 ..... 07 p1057 N84-16849 #
ISI/RS-83-10 ..... 09 p1369 N84-18935 #
ISI/RS-83-121 ..... 14 p2209 N84-24262 #
ISI/RS-83-125 ..... 19 p2984 N84-28910 #
ISI/RS-84-129 ..... 21 p3465 N84-31967 #
ISI/RS-84-132 ..... 23 p3812 N84-34173 #
ISI/RS-84-133 ..... 23 p3817 N84-34201 #
ISI/RS-84-136 ..... 23 p3730 N84-33643 #

ISI/TM-80-18.1 ..... 20 p3272 N84-30772 #
ISI/TM-84-128 ..... 15 p2418 N84-25517 #

ISL-M736-3 ..... 11 p1643 N84-20740 #

ISL-TR-M736-2 ..... 11 p1713 N84-21166 #

ISR-1 ..... 11 p1683 N84-20981 #
ISR-1 ..... 19 p3058 N84-29400 #

ISS-L-84/3 ..... 20 p3260 N84-30693 #

ISSN-SW-0081-5640 ..... 06 p0783 N84-15132 #
ISSN-SW-0081-5640 ..... 09 p1253 N84-18180 #

ISSN-92-83-10628-2 ..... 20 p3248 N84-30614 #
ISSN-039-6586 ..... 17 p2774 N84-27611 #
ISSN-348-7539 ..... 18 p2953 N84-28720* #
ISSN-0009-8434 ..... 21 p3518 N84-32286 #
ISSN-0023-2718 ..... 07 p0982 N84-16359 #
ISSN-0027-657X ..... 15 p2319 N84-24919 #
ISSN-0027-657X ..... 15 p2335 N84-25014 #
ISSN-0027-657X ..... 15 p2370 N84-25216 #
ISSN-0027-657X ..... 15 p2403 N84-25424 #
ISSN-0027-657X ..... 15 p2407 N84-25449 #
ISSN-0027-657X ..... 19 p3003 N84-29036 #
ISSN-0027-657X ..... 20 p3177 N84-30174 #
ISSN-0027-657X ..... 20 p3177 N84-30175 #
ISSN-0065-5309 ..... 02 p0235 N84-11540
ISSN-0065-5309 ..... 03 p0407 N84-12681
ISSN-0065-5317 ..... 02 p0235 N84-11541
ISSN-0065-5317 ..... 10 p1519 N84-19942
ISSN-0065-5325 ..... 03 p0392 N84-12554
ISSN-0065-5325 ..... 16 p2505 N84-26079
ISSN-0065-5325 ..... 16 p2505 N84-26080
ISSN-0065-5325 ..... 16 p2547 N84-26348
ISSN-0065-5325 ..... 18 p2952 N84-28711
ISSN-0065-5369 ..... 16 p2504 N84-26089
ISSN-0066-1953 ..... 04 p0575 N84-13783
ISSN-0069-5882 ..... 18 p2867 N84-28200 #
ISSN-0069-5882 ..... 18 p2891 N84-28352 #
ISSN-0071-5220 ..... 07 p1027 N84-16653 #
ISSN-0071-9196 ..... 08 p1179 N84-17681 #
ISSN-0071-9196 ..... 10 p1526 N84-19998 #
ISSN-0071-9196 ..... 17 p2727 N84-27355 #
ISSN-0071-9196 ..... 18 p2866 N84-28199 #
ISSN-0072-3410 ..... 19 p3056 N84-29392
ISSN-0072-4122 ..... 14 p2178 N84-24046
ISSN-0072-4130 ..... 02 p0253 N84-11654
ISSN-0072-4130 ..... 12 p1849 N84-22048
ISSN-0072-4130 ..... 19 p3057 N84-29393
ISSN-0073-0300 ..... 12 p1827 N84-21914 #
ISSN-0076-6739 ..... 07 p1035 N84-16713 #
ISSN-0076-6739 ..... 07 p1035 N84-16714 #
ISSN-0077-5606 ..... 03 p0395 N84-12578 #
ISSN-0077-5606 ..... 05 p0711 N84-14661 #
ISSN-0077-5606 ..... 06 p0800 N84-15217 #
ISSN-0077-5606 ..... 06 p0814 N84-15295 #
ISSN-0077-5606 ..... 06 p0877 N84-15707 #
ISSN-0077-5606 ..... 07 p0965 N84-16256 #
ISSN-0077-5606 ..... 07 p1012 N84-16564 #
ISSN-0077-5606 ..... 11 p1636 N84-20694 #
ISSN-0077-5606 ..... 12 p1898 N84-22364 #
ISSN-0077-5606 ..... 15 p2403 N84-25423
ISSN-0078-379X ..... 16 p2487 N84-25954 #
ISSN-0078-379X ..... 16 p2487 N84-25955 #
ISSN-0078-379X ..... 16 p2488 N84-25958 #
ISSN-0078-379X ..... 16 p2539 N84-26301 #
ISSN-0078-379X ..... 16 p2549 N84-26361 #

ISSN-0078-379X ..... 16 p2560 N84-26422 #
ISSN-0078-379X ..... 16 p2565 N84-26455 #
ISSN-0078-3781 ..... 16 p2451 N84-25720 #
ISSN-0078-3781 ..... 16 p2462 N84-25781 #
ISSN-0078-3781 ..... 16 p2462 N84-25782 #
ISSN-0078-3781 ..... 16 p2486 N84-25956 #
ISSN-0078-3781 ..... 16 p2488 N84-25957 #
ISSN-0078-3781 ..... 16 p2488 N84-25959 #
ISSN-0078-3781 ..... 16 p2554 N84-26386 #
ISSN-0078-3781 ..... 16 p2554 N84-26387 #
ISSN-0078-3781 ..... 17 p2724 N84-27336 #
ISSN-0081-3397 ..... 04 p0578 N84-13815 #
ISSN-0081-3397 ..... 04 p0578 N84-13816 #
ISSN-0081-3397 ..... 04 p0593 N84-13915 #
ISSN-0081-3397 ..... 16 p2561 N84-26427 #
ISSN-0081-3397 ..... 17 p2729 N84-27369 #
ISSN-0082-5255 ..... 01 p0003 N84-10023 #
ISSN-0082-5255 ..... 01 p0077 N84-10502 #
ISSN-0082-5255 ..... 03 p0432 N84-12828 #
ISSN-0082-5255 ..... 09 p1328 N84-18674 #
ISSN-0082-5255 ..... 11 p1651 N84-20780 #
ISSN-0082-5255 ..... 12 p1815 N84-21829 #
ISSN-0082-5255 ..... 12 p1815 N84-21830 #
ISSN-0082-5255 ..... 14 p2100 N84-23604 #
ISSN-0082-5255 ..... 14 p2145 N84-23653 #
ISSN-0082-5255 ..... 14 p2222 N84-24331 #
ISSN-0082-5255 ..... 21 p3399 N84-31562 #
ISSN-0082-5255 ..... 21 p3421 N84-31701 #
ISSN-0082-5263 ..... 03 p0371 N84-12416 #
ISSN-0082-5263 ..... 07 p0950 N84-16165 #
ISSN-0082-5263 ..... 07 p0959 N84-16218 #
ISSN-0082-5263 ..... 09 p1250 N84-18160 #
ISSN-0082-5263 ..... 11 p1651 N84-20779 #
ISSN-0082-5263 ..... 17 p2615 N84-26738* #
ISSN-0082-5263 ..... 17 p2671 N84-27023 #
ISSN-0082-5263 ..... 17 p2748 N84-27442 #
ISSN-0082-5263 ..... 21 p3399 N84-31563 #
ISSN-0084-7089 ..... 23 p3797 N84-34076 #
ISSN-0085-4301 ..... 10 p1546 N84-20136 #
ISSN-0089-4010 ..... 04 p0586 N84-13871 #
ISSN-0090-5232 ..... 19 p3100 N84-29694 #
ISSN-0090-5232 ..... 19 p3114 N84-29784 #
ISSN-0091-2972 ..... 22 p3673 N84-33282 #
ISSN-0091-2972 ..... 22 p3673 N84-33283 #
ISSN-0106-2840 ..... 10 p1540 N84-20090 #
ISSN-0106-2922 ..... 02 p0251 N84-11642 #
ISSN-0141-3996 ..... 07 p1011 N84-16559
ISSN-0141-3996 ..... 07 p1014 N84-16578
ISSN-0141-3996 ..... 07 p1014 N84-16579
ISSN-0141-4089 ..... 07 p1011 N84-16559
ISSN-0141-4089 ..... 07 p1014 N84-16579
ISSN-0141-4089 ..... 07 p1015 N84-16581
ISSN-0141-4097 ..... 07 p1014 N84-16577
ISSN-0141-4097 ..... 07 p1014 N84-16580
ISSN-0141-4097 ..... 07 p1015 N84-16581
ISSN-0143-7143 ..... 12 p1896 N84-22347
ISSN-0143-7313 ..... 03 p0388 N84-12526
ISSN-0143-7313 ..... 12 p1825 N84-21897
ISSN-0143-7313 ..... 15 p2294 N84-24769
ISSN-0143-7313 ..... 15 p2346 N84-25075
ISSN-0143-7313 ..... 15 p2346 N84-25077
ISSN-0143-7313 ..... 17 p2622 N84-26782
ISSN-0143-7313 ..... 19 p3026 N84-29190
ISSN-0143-7313 ..... 20 p3195 N84-30292
ISSN-0143-7314 ..... 15 p2415 N84-25500
ISSN-0149-1776 ..... 04 p0565 N84-13724 #
ISSN-0158-7265 ..... 19 p3037 N84-29266 #
ISSN-0167-8590 ..... 20 p3159 N84-30060 #
ISSN-0167-8590 ..... 20 p3188 N84-30254 #
ISSN-0167-8590 ..... 20 p3204 N84-30352 #
ISSN-0167-8590 ..... 20 p3238 N84-30558 #
ISSN-0167-8590 ..... 20 p3265 N84-30718 #
ISSN-0167-9708 ..... 10 p1427 N84-19330 #
ISSN-0167-9708 ..... 10 p1483 N84-19698 #
ISSN-0167-9708 ..... 10 p1484 N84-19699 #
ISSN-0167-9708 ..... 10 p1484 N84-19700 #
ISSN-0167-9708 ..... 10 p1489 N84-19735 #
ISSN-0167-9708 ..... 10 p1489 N84-19736 #
ISSN-0167-9708 ..... 10 p1489 N84-19737 #
ISSN-0167-9708 ..... 10 p1565 N84-20254 #
ISSN-0167-9708 ..... 10 p1566 N84-20260 #
ISSN-0167-9708 ..... 10 p1566 N84-20261 #
ISSN-0167-9708 ..... 10 p1566 N84-20262 #
ISSN-0167-9708 ..... 10 p1568 N84-20271 #
ISSN-0167-9708 ..... 10 p1574 N84-20315 #
ISSN-0167-9708 ..... 10 p1587 N84-20400 #
ISSN-0167-9708 ..... 10 p1590 N84-20420 #
ISSN-0167-9708 ..... 13 p2048 N84-23289 #
ISSN-0170-1339 ..... 02 p0178 N84-11167 #
ISSN-0170-1339 ..... 02 p0179 N84-11169 #
ISSN-0170-1339 ..... 02 p0207 N84-11349 #
ISSN-0170-1339 ..... 03 p0342 N84-12219 #
ISSN-0170-1339 ..... 03 p0362 N84-12355 #
ISSN-0170-1339 ..... 03 p0386 N84-12515 #
ISSN-0170-1339 ..... 05 p0626 N84-14116 #
ISSN-0170-1339 ..... 07 p0962 N84-16239 #
ISSN-0170-1339 ..... 07 p0965 N84-16254 #
ISSN-0170-1339 ..... 07 p0994 N84-16448 #
ISSN-0170-1339 ..... 07 p0995 N84-16449 #
ISSN-0170-1339 ..... 07 p1008 N84-16540 #
ISSN-0170-1339 ..... 07 p1034 N84-16710 #
ISSN-0170-1339 ..... 07 p1075 N84-16990 #
ISSN-0170-1339 ..... 08 p1153 N84-17504 #
ISSN-0170-1339 ..... 08 p1181 N84-17694 #
ISSN-0170-1339 ..... 08 p1181 N84-17695 #
ISSN-0170-1339 ..... 08 p1243 N84-18124 #
ISSN-0170-1339 ..... 10 p1429 N84-19343 #
ISSN-0170-1339 ..... 10 p1429 N84-19344 #
ISSN-0170-1339 ..... 10 p1431 N84-19356 #
ISSN-0170-1339 ..... 10 p1488 N84-19727 #
ISSN-0170-1339 ..... 10 p1488 N84-19728 #
ISSN-0170-1339 ..... 10 p1495 N84-19776 #
ISSN-0170-1339 ..... 10 p1495 N84-19777 #
ISSN-0170-1339 ..... 10 p1527 N84-20001 #
ISSN-0170-1339 ..... 10 p1533 N84-20044 #
ISSN-0170-1339 ..... 12 p1768 N84-21535 #
ISSN-0170-1339 ..... 12 p1769 N84-21536 #
ISSN-0170-1339 ..... 12 p1802 N84-21751 #
ISSN-0170-1339 ..... 12 p1819 N84-21858 #
ISSN-0170-1339 ..... 12 p1909 N84-22436 #
ISSN-0170-1339 ..... 19 p2955 N84-28731 #
ISSN-0170-1339 ..... 19 p2962 N84-28772 #
ISSN-0170-1339 ..... 19 p2962 N84-28773 #
ISSN-0170-1339 ..... 19 p2962 N84-28774 #
ISSN-0170-1339 ..... 19 p2968 N84-28811 #
ISSN-0170-1339 ..... 19 p2983 N84-28904 #
ISSN-0170-1339 ..... 19 p3009 N84-29074 #
ISSN-0170-1339 ..... 19 p3009 N84-29075 #
ISSN-0170-1339 ..... 19 p3009 N84-29077 #
ISSN-0170-1339 ..... 19 p3019 N84-29142 #
ISSN-0170-1339 ..... 19 p3025 N84-29185 #
ISSN-0170-1339 ..... 19 p3032 N84-29235 #
ISSN-0170-1339 ..... 19 p3033 N84-29236 #
ISSN-0170-1339 ..... 19 p3055 N84-29390 #
ISSN-0170-1339 ..... 20 p3191 N84-30270 #
ISSN-0170-1339 ..... 21 p3328 N84-31116 #
ISSN-0170-1339 ..... 21 p3328 N84-31117 #
ISSN-0170-1339 ..... 21 p3343 N84-31212 #
ISSN-0170-1339 ..... 21 p3353 N84-31269 #
ISSN-0170-1339 ..... 21 p3407 N84-31610 #
ISSN-0170-1339 ..... 21 p3436 N84-31798 #
ISSN-0170-1339 ..... 21 p3445 N84-31859 #
ISSN-0170-6071 ..... 15 p2390 N84-25337 #
ISSN-0170-6071 ..... 15 p2396 N84-25376 #
ISSN-0170-6071 ..... 15 p2396 N84-25377 #
ISSN-0170-6071 ..... 15 p2417 N84-25513 #
ISSN-0170-6071 ..... 16 p2484 N84-25929 #
ISSN-0170-6071 ..... 16 p2502 N84-26056 #
ISSN-0170-6071 ..... 16 p2557 N84-26402 #
ISSN-0170-8996 ..... 02 p0303 N84-11986 #
ISSN-0170-9011 ..... 02 p0225 N84-11475 #
ISSN-0170-9011 ..... 02 p0274 N84-11796 #
ISSN-0170-9011 ..... 10 p1579 N84-20348 #
ISSN-0170-9011 ..... 12 p1885 N84-22286 #
ISSN-0170-9011 ..... 12 p1909 N84-22435 #
ISSN-0170-9011 ..... 12 p1920 N84-22508 #
ISSN-0170-9011 ..... 16 p2542 N84-26315 #
ISSN-0171-7618 ..... 10 p1503 N84-19822 #
ISSN-0171-7618 ..... 16 p2564 N84-26453 #
ISSN-0171-7618 ..... 18 p2830 N84-27971 #
ISSN-0171-7618 ..... 18 p2850 N84-28094 #
ISSN-0171-7618 ..... 18 p2915 N84-28488 #
ISSN-0171-7618 ..... 18 p2915 N84-28489 #
ISSN-0171-7618 ..... 19 p3037 N84-29264 #
ISSN-0171-7618 ..... 21 p3403 N84-31593 #
ISSN-0173-699-X ..... 15 p2423 N84-25557 #
ISSN-0173-0509 ..... 19 p3028 N84-29204 #
ISSN-0173-6256 ..... 19 p3103 N84-29714 #
ISSN-0193-3787 ..... 14 p2133 N84-23782 #
ISSN-0195-623X ..... 14 p2189 N84-24115 #
ISSN-0202-7283 ..... 19 p3038 N84-29274 #
ISSN-0208-5658 ..... 01 p0111 N84-10723 #
ISSN-0208-5658 ..... 03 p0370 N84-12407 #
ISSN-0208-5658 ..... 03 p0451 N84-12966 #
ISSN-0208-5658 ..... 07 p1058 N84-16852
ISSN-0208-5658 ..... 15 p2331 N84-24998 #
ISSN-0208-5658 ..... 19 p2991 N84-28952 #
ISSN-0208-5658 ..... 19 p3003 N84-29032 #
ISSN-0208-5658 ..... 19 p3003 N84-29034 #
ISSN-0208-5658 ..... 19 p3019 N84-29145 #
ISSN-0208-5658 ..... 19 p3033 N84-29241 #
ISSN-0208-5658 ..... 19 p3064 N84-29441 #
ISSN-0208-5658 ..... 19 p3064 N84-29442 #
ISSN-0208-5658 ..... 19 p3081 N84-29551 #
ISSN-0208-5658 ..... 19 p3081 N84-29552 #
ISSN-0208-5658 ..... 19 p3081 N84-29553 #
ISSN-0208-5658 ..... 19 p3082 N84-29555 #
ISSN-0208-5658 ..... 19 p3106 N84-29732 #
ISSN-0208-5658 ..... 19 p3106 N84-29733 #
ISSN-0208-5658 ..... 23 p3712 N84-33530
ISSN-0208-5658 ..... 23 p3716 N84-33554
ISSN-0208-5658 ..... 23 p3726 N84-33612

ISSN-0208-5658 ..... 23 p3729 N84-33631
ISSN-0208-5658 ..... 23 p3729 N84-33632
ISSN-0208-5658 ..... 23 p3729 N84-33633
ISSN-0208-5658 ..... 23 p3729 N84-33634
ISSN-0208-5658 ..... 23 p3729 N84-33635
ISSN-0208-5658 ..... 23 p3734 N84-33662
ISSN-0208-5658 ..... 23 p3745 N84-33738
ISSN-0208-5658 ..... 23 p3759 N84-33822
ISSN-0208-5658 ..... 23 p3759 N84-33823
ISSN-0208-5658 ..... 23 p3826 N84-34265
ISSN-0208-5688 ..... 23 p3794 N84-34059
ISSN-0250-1007 ..... 07 p1094 N84-17115 #
ISSN-0250-1589 ..... 09 p1273 N84-18315 #
ISSN-0250-1589 ..... 09 p1362 N84-18900 #
ISSN-0250-1589 ..... 16 p2509 N84-26102 #
ISSN-0250-1589 ..... 20 p3132 N84-29890 #
ISSN-0250-1589 ..... 20 p3199 N84-30317 #
ISSN-0250-1589 ..... 23 p3785 N84-34003 #
ISSN-0262-5369 ..... 03 p0419 N84-12739
ISSN-0262-5369 ..... 03 p0420 N84-12740
ISSN-0262-5369 ..... 17 p2751 N84-27458
ISSN-0262-5369 ..... 18 p2917 N84-28493
ISSN-0262-5369 ..... 20 p3172 N84-30143
ISSN-0280-445X ..... 07 p1028 N84-16662 #
ISSN-0280-445X ..... 15 p2367 N84-25199 #
ISSN-0280-445X ..... 17 p2728 N84-27366 #
ISSN-0280-445X ..... 18 p2891 N84-28350 #
ISSN-0280-7572 ..... 24 p3899 N84-34691 #
ISSN-0281-0212 ..... 15 p2265 N84-24602 #
ISSN-0281-0212 ..... 15 p2321 N84-24932 #
ISSN-0281-0220 ..... 08 p1183 N84-17705 #
ISSN-0281-0239 ..... 06 p1206 N84-17863 #
ISSN-0281-0239 ..... 15 p2384 N84-25297 #
ISSN-0281-0239 ..... 18 p2915 N84-28490 #
ISSN-0281-0239 ..... 19 p3071 N84-29486 #
ISSN-0285-6808 ..... 06 p0834 N84-15424 #
ISSN-0285-6808 ..... 06 p0900 N84-15841 #
ISSN-0285-6808 ..... 06 p0938 N84-16094 #
ISSN-0285-6808 ..... 07 p0960 N84-16225 #
ISSN-0285-6808 ..... 07 p0965 N84-16252 #
ISSN-0285-6808 ..... 20 p3165 N84-30103 #
ISSN-0285-6808 ..... 20 p3168 N84-30114 #
ISSN-0285-6808 ..... 20 p3240 N84-30568 #
ISSN-0285-6808 ..... 20 p3240 N84-30569 #
ISSN-0285-6808 ..... 20 p3308 N84-31008 #
ISSN-0303-4003 ..... 07 p1004 N84-16511 #
ISSN-0303-4003 ..... 07 p1005 N84-16518 #
ISSN-0308-5074 ..... 08 p1243 N84-18125 #
ISSN-0308-5074 ..... 08 p1243 N84-18126 #
ISSN-0309-099X ..... 12 p1864 N84-22147 #
ISSN-0309-099X ..... 16 p2569 N84-26485 #
ISSN-0309-099X ..... 18 p2947 N84-28683 #
ISSN-0309-3050 ..... 12 p1878 N84-22240
ISSN-0309-3050 ..... 16 p2494 N84-26002
ISSN-0309-8521 ..... 01 p0002 N84-10016 #
ISSN-0314-1357 ..... 05 p0766 N84-15023 #
ISSN-0317-7130 ..... 05 p0678 N84-14460
ISSN-0333-5897 ..... 04 p0532 N84-13499 #
ISSN-0339-8676 ..... 17 p2725 N84-27341 #
ISSN-0340-7608 ..... 02 p0192 N84-11244 #
ISSN-0340-7608 ..... 02 p0192 N84-11245 #
ISSN-0340-7608 ..... 02 p0197 N84-11281 #
ISSN-0340-7608 ..... 02 p0197 N84-11282 #
ISSN-0340-7608 ..... 02 p0197 N84-11283 #
ISSN-0340-7608 ..... 02 p0197 N84-11284 #
ISSN-0340-7608 ..... 02 p0197 N84-11285 #
ISSN-0340-7608 ..... 02 p0198 N84-11286 #
ISSN-0340-7608 ..... 02 p0198 N84-11287 #
ISSN-0340-7608 ..... 02 p0202 N84-11314 #
ISSN-0340-7608 ..... 02 p0206 N84-11347 #
ISSN-0340-7608 ..... 02 p0207 N84-11348 #
ISSN-0340-7608 ..... 02 p0210 N84-11375 #
ISSN-0340-7608 ..... 02 p0211 N84-11377 #
ISSN-0340-7608 ..... 02 p0215 N84-11413 #
ISSN-0340-7608 ..... 02 p0216 N84-11414 #
ISSN-0340-7608 ..... 02 p0216 N84-11415 #
ISSN-0340-7608 ..... 02 p0216 N84-11416 #
ISSN-0340-7608 ..... 02 p0216 N84-11417 #
ISSN-0340-7608 ..... 02 p0216 N84-11418 #
ISSN-0340-7608 ..... 02 p0216 N84-11419 #
ISSN-0340-7608 ..... 02 p0225 N84-11476 #
ISSN-0340-7608 ..... 02 p0233 N84-11526 #
ISSN-0340-7608 ..... 02 p0242 N84-11588 #
ISSN-0340-7608 ..... 02 p0243 N84-11590 #
ISSN-0340-7608 ..... 02 p0250 N84-11637 #
ISSN-0340-7608 ..... 02 p0250 N84-11638 #
ISSN-0340-7608 ..... 02 p0250 N84-11639 #
ISSN-0340-7608 ..... 02 p0265 N84-11742 #
ISSN-0340-7608 ..... 02 p0266 N84-11752 #
ISSN-0340-7608 ..... 02 p0267 N84-11753 #
ISSN-0340-7608 ..... 02 p0288 N84-11889 #
ISSN-0340-7608 ..... 02 p0300 N84-11958 #
ISSN-0340-7608 ..... 02 p0300 N84-11969 #
ISSN-0340-7608 ..... 02 p0300 N84-11970 #
ISSN-0340-7608 ..... 02 p0300 N84-11971 #
ISSN-0340-7608 ..... 02 p0300 N84-11972 #
ISSN-0340-7608 ..... 02 p0302 N84-11985 #
ISSN-0340-7608 ..... 03 p0362 N84-12354 #
ISSN-0340-7608 ..... 03 p0384 N84-12505 #
ISSN-0340-7608 ..... 03 p0405 N84-12651 #
ISSN-0340-7608 ..... 03 p0405 N84-12652 #
ISSN-0340-7608 ..... 03 p0456 N84-13001 #
ISSN-0340-7608 ..... 03 p0456 N84-13002 #
ISSN-0340-7608 ..... 05 p0661 N84-14342 #
ISSN-0340-7608 ..... 05 p0661 N84-14343 #
ISSN-0340-7608 ..... 05 p0677 N84-14453 #
ISSN-0340-7608 ..... 05 p0681 N84-14480 #
ISSN-0340-7608 ..... 05 p0699 N84-14590 #
ISSN-0340-7608 ..... 05 p0700 N84-14591 #
ISSN-0340-7608 ..... 05 p0748 N84-14912 #
ISSN-0340-7608 ..... 07 p0968 N84-16275 #
ISSN-0340-7608 ..... 07 p0973 N84-16303 #
ISSN-0340-7608 ..... 07 p0973 N84-16304 #
ISSN-0340-7608 ..... 07 p0977 N84-16331 #
ISSN-0340-7608 ..... 07 p0977 N84-16332 #
ISSN-0340-7608 ..... 07 p0980 N84-16349 #
ISSN-0340-7608 ..... 07 p0980 N84-16350 #
ISSN-0340-7608 ..... 07 p0986 N84-16385 #
ISSN-0340-7608 ..... 07 p0995 N84-16450 #
ISSN-0340-7608 ..... 07 p0999 N84-16480 #
ISSN-0340-7608 ..... 07 p0999 N84-16481 #
ISSN-0340-7608 ..... 07 p1000 N84-16483 #
ISSN-0340-7606 ..... 07 p1004 N84-16513 #
ISSN-0340-7606 ..... 07 p1012 N84-16568 #
ISSN-0340-7608 ..... 07 p1014 N84-16576 #
ISSN-0340-7608 ..... 07 p1023 N84-16638 #
ISSN-0340-7608 ..... 07 p1026 N84-16651 #
ISSN-0340-7608 ..... 07 p1026 N84-16652 #
ISSN-0340-7608 ..... 07 p1027 N84-16660 #
ISSN-0340-7608 ..... 07 p1028 N84-16661 #
ISSN-0340-7608 ..... 08 p1105 N84-17183 #
ISSN-0340-7608 ..... 08 p1126 N84-17321 #
ISSN-0340-7608 ..... 08 p1126 N84-17322 #
ISSN-0340-7608 ..... 08 p1126 N84-17323 #
ISSN-0340-7608 ..... 08 p1135 N84-17383 #
ISSN-0340-7608 ..... 08 p1181 N84-17696 #
ISSN-0340-7608 ..... 08 p1183 N84-17704 #
ISSN-0340-7608 ..... 10 p1457 N84-19518 #
ISSN-0340-7608 ..... 10 p1457 N84-19519 #
ISSN-0340-7608 ..... 10 p1457 N84-19520 #
ISSN-0340-7608 ..... 10 p1463 N84-19555 #
ISSN-0340-7608 ..... 10 p1463 N84-19557 #
ISSN-0340-7608 ..... 10 p1463 N84-19558 #
ISSN-0340-7608 ..... 10 p1463 N84-19559 #
ISSN-0340-7608 ..... 10 p1472 N84-19613 #
ISSN-0340-7608 ..... 10 p1472 N84-19614 #
ISSN-0340-7608 ..... 10 p1472 N84-19615 #
ISSN-0340-7608 ..... 10 p1472 N84-19616 #
ISSN-0340-7608 ..... 10 p1472 N84-19617 #
ISSN-0340-7608 ..... 10 p1483 N84-19697 #
ISSN-0340-7608 ..... 10 p1487 N84-19724 #
ISSN-0340-7608 ..... 10 p1487 N84-19725 #
ISSN-0340-7608 ..... 10 p1488 N84-19729 #
ISSN-0340-7608 ..... 10 p1488 N84-19730 #
ISSN-0340-7608 ..... 10 p1488 N84-19731 #
ISSN-0340-7608 ..... 10 p1488 N84-19732 #
ISSN-0340-7608 ..... 10 p1489 N84-19733 #
ISSN-0340-7608 ..... 10 p1489 N84-19734 #
ISSN-0340-7608 ..... 10 p1495 N84-19778 #
ISSN-0340-7608 ..... 10 p1499 N84-19801 #
ISSN-0340-7608 ..... 10 p1530 N84-20024 #
ISSN-0340-7608 ..... 10 p1531 N84-20025 #
ISSN-0340-7608 ..... 10 p1531 N84-20026 #
ISSN-0340-7608 ..... 10 p1532 N84-20034 #
ISSN-0340-7606 ..... 10 p1537 N84-20073 #
ISSN-0340-7606 ..... 10 p1579 N84-20349 #
ISSN-0340-7606 ..... 10 p1590 N84-20419 #
ISSN-0340-7608 ..... 12 p1794 N84-21701 #
ISSN-0340-7608 ..... 12 p1794 N84-21702 #
ISSN-0340-7608 ..... 12 p1844 N84-22025 #
ISSN-0340-7608 ..... 12 p1916 N84-22484 #
ISSN-0340-7608 ..... 13 p1958 N84-22729 #
ISSN-0340-7608 ..... 13 p2048 N84-23290 #
ISSN-0340-7608 ..... 15 p2262 N84-24591 #
ISSN-0340-7608 ..... 15 p2286 N84-24718 #
ISSN-0340-7608 ..... 15 p2295 N84-24775 #
ISSN-0340-7608 ..... 15 p2296 N84-24776 #
ISSN-0340-7608 ..... 15 p2299 N84-24801 #
ISSN-0340-7608 ..... 15 p2301 N84-24811 #
ISSN-0340-7608 ..... 15 p2301 N84-24812 #
ISSN-0340-7608 ..... 15 p2328 N84-24976 #
ISSN-0340-7608 ..... 15 p2328 N84-24977 #
ISSN-0340-7608 ..... 15 p2336 N84-25022 #
ISSN-0340-7608 ..... 15 p2362 N84-25171 #
ISSN-0340-7608 ..... 15 p2362 N84-25172 #
ISSN-0340-7608 ..... 15 p2362 N84-25173 #
ISSN-0340-7608 ..... 15 p2362 N84-25174 #
ISSN-0340-7608 ..... 15 p2363 N84-25175 #
ISSN-0340-7608 ..... 15 p2366 N84-25196 #
ISSN-0340-7608 ..... 15 p2412 N84-25482 #
ISSN-0340-7608 ..... 16 p2463 N84-25783 #
ISSN-0340-7608 ..... 16 p2463 N84-25784 #

ISSN-0340-7608 ..... 16 p2465 N84-25802 #
ISSN-0340-7608 ..... 16 p2466 N84-25803 #
ISSN-0340-7608 ..... 16 p2466 N84-25804 #
ISSN-0340-7608 ..... 16 p2466 N84-25805 #
ISSN-0340-7608 ..... 16 p2471 N84-25836 #
ISSN-0340-7608 ..... 16 p2471 N84-25837 #
ISSN-0340-7608 ..... 16 p2476 N84-25876 #
ISSN-0340-7608 ..... 16 p2518 N84-26166 #
ISSN-0340-7608 ..... 16 p2519 N84-26167 #
ISSN-0340-7608 ..... 16 p2519 N84-26168 #
ISSN-0340-7608 ..... 16 p2529 N84-26241 #
ISSN-0340-7608 ..... 16 p2557 N84-26401 #
ISSN-0340-7608 ..... 16 p2560 N84-26423 #
ISSN-0340-7608 ..... 18 p2816 N84-27877 #
ISSN-0340-7608 ..... 19 p2985 N84-28914 #
ISSN-0340-7608 ..... 19 p2990 N84-28947 #
ISSN-0340-7608 ..... 19 p2996 N84-28983 #
ISSN-0340-7608 ..... 19 p3000 N84-29015 #
ISSN-0340-7608 ..... 19 p3001 N84-29016 #
ISSN-0340-7608 ..... 19 p3019 N84-29140 #
ISSN-0340-7608 ..... 19 p3019 N84-29141 #
ISSN-0340-7608 ..... 19 p3019 N84-29143 #
ISSN-0340-7608 ..... 19 p3019 N84-29144 #
ISSN-0340-7608 ..... 19 p3025 N84-29187 #
ISSN-0340-7608 ..... 19 p3028 N84-29206 #
ISSN-0340-7608 ..... 19 p3033 N84-29239 #
ISSN-0340-7608 ..... 19 p3051 N84-29364 #
ISSN-0340-7608 ..... 19 p3113 N84-29777 #
ISSN-0340-7608 ..... 19 p3113 N84-29778 #
ISSN-0340-7608 ..... 19 p3113 N84-29779 #
ISSN-0340-7608 ..... 19 p3113 N84-29780 #
ISSN-0340-7608 ..... 20 p3164 N84-30096 #
ISSN-0340-7608 ..... 20 p3237 N84-30549 #
ISSN-0340-7608 ..... 21 p3343 N84-31208 #
ISSN-0340-7608 ..... 21 p3368 N84-31370 #
ISSN-0340-7608 ..... 21 p3407 N84-31611 #
ISSN-0340-7608 ..... 21 p3407 N84-31612 #
ISSN-0340-7608 ..... 21 p3407 N84-31613 #
ISSN-0340-7608 ..... 21 p3408 N84-31614 #
ISSN-0340-7608 ..... 21 p3411 N84-31633 #
ISSN-0340-7608 ..... 21 p3499 N84-32177 #
ISSN-0340-7608 ..... 21 p3499 N84-32178 #
ISSN-0340-7608 ..... 22 p3642 N84-33093 #
ISSN-0340-7608 ..... 22 p3658 N84-33189 #
ISSN-0340-7608 ..... 23 p3716 N84-33553 #
ISSN-0340-7608 ..... 23 p3727 N84-33620 #
ISSN-0340-7608 ..... 23 p3727 N84-33621 #
ISSN-0340-7608 ..... 23 p3728 N84-33622 #
ISSN-0340-7608 ..... 23 p3744 N84-33737 #
ISSN-0340-7608 ..... 23 p3752 N84-33787 #
ISSN-0340-7608 ..... 23 p3752 N84-33788 #
ISSN-0340-7608 ..... 23 p3755 N84-33805 #
ISSN-0340-7608 ..... 23 p3755 N84-33806 #
ISSN-0340-7608 ..... 23 p3757 N84-33818 #
ISSN-0340-7608 ..... 23 p3757 N84-33819 #
ISSN-0340-7608 ..... 23 p3792 N84-34050 #
ISSN-0340-7608 ..... 23 p3792 N84-34051 #
ISSN-0340-7608 ..... 23 p3793 N84-34058 #
ISSN-0340-7608 ..... 23 p3802 N84-34110 #
ISSN-0340-7608 ..... 23 p3825 N84-34262 #
ISSN-0340-7608 ..... 23 p3826 N84-34263 #
ISSN-0340-7608 ..... 23 p3826 N84-34264 #
ISSN-0340-7608 ..... 23 p3831 N84-34303 #
ISSN-0340-7608 ..... 23 p3831 N84-34304 #
ISSN-0340-8922 ..... 03 p0461 N84-13035
ISSN-0340-8922 ..... 08 p1109 N84-17209
ISSN-0340-8922 ..... 10 p1579 N84-20346 #
ISSN-0340-8922 ..... 10 p1597 N84-20469 #
ISSN-0340-8922 ..... 13 p2091 N84-23547
ISSN-0340-9821 ..... 01 p0164 N84-11078 #
ISSN-0341-0587 ..... 09 p1272 N84-18307 #
ISSN-0341-1893 ..... 12 p1800 N84-21737
ISSN-0341-1893 ..... 12 p1800 N84-21738
ISSN-0341-6674 ..... 16 p2554 N84-26389 #
ISSN-0341-6720 ..... 02 p0206 N84-11345 #
ISSN-0341-6720 ..... 02 p0225 N84-11474 #
ISSN-0341-6720 ..... 10 p1499 N84-19800 #
ISSN-0341-8561 ..... 07 p1041 N84-16751 #
ISSN-0341-8561 ..... 07 p1041 N84-16752 #
ISSN-0341-8561 ..... 12 p1837 N84-21975 #
ISSN-0343-7639 ..... 07 p1067 N84-16928 #
ISSN-0344-9629 ..... 02 p0243 N84-11589 #
ISSN-0344-9629 ..... 10 p1483 N84-19554 #
ISSN-0344-9629 ..... 13 p2018 N84-23082 #
ISSN-0344-9629 ..... 14 p2174 N84-24019 #
ISSN-0344-9629 ..... 15 p2349 N84-25098 #
ISSN-0344-9629 ..... 23 p3791 N84-34044 #
ISSN-0347-1257 ..... 15 p2332 N84-25003 #
ISSN-0347-2124 ..... 06 p0831 N84-15408 #
ISSN-0347-2124 ..... 06 p0890 N84-15786 #
ISSN-0347-2124 ..... 08 p1183 N84-17707 #
ISSN-0347-2124 ..... 08 p1188 N84-17741 #
ISSN-0347-2124 ..... 10 p1546 N84-20132 #
ISSN-0347-2124 ..... 10 p1565 N84-20255 #
ISSN-0347-2124 ..... 15 p2390 N84-25342 #
ISSN-0347-2124 ..... 23 p3726 N84-33611 #
ISSN-0347-2124 ..... 23 p3805 N84-34127 #
ISSN-0347-2809 ..... 03 p0426 N84-12792 #
ISSN-0347-2809 ..... 03 p0426 N84-12793 #
ISSN-0347-2809 ..... 07 p1068 N84-16933 #
ISSN-0347-2809 ..... 07 p1068 N84-16937 #
ISSN-0347-2809 ..... 13 p1991 N84-22926 #
ISSN-0347-2809 ..... 13 p2034 N84-23189 #
ISSN-0347-2809 ..... 13 p2034 N84-23197 #
ISSN-0347-2809 ..... 13 p2035 N84-23198 #
ISSN-0347-2809 ..... 13 p2036 N84-23210 #
ISSN-0347-2809 ..... 13 p2037 N84-23212 #
ISSN-0347-2809 ..... 13 p2037 N84-23213 #
ISSN-0347-2809 ..... 13 p2037 N84-23218 #
ISSN-0347-2809 ..... 13 p2041 N84-23246 #
ISSN-0347-2809 ..... 14 p2215 N84-24306 #
ISSN-0347-2809 ..... 14 p2215 N84-24307 #
ISSN-0347-2809 ..... 14 p2219 N84-24314 #
ISSN-0347-2809 ..... 17 p2759 N84-27520 #
ISSN-0347-2809 ..... 17 p2759 N84-27521 #
ISSN-0347-2809 ..... 17 p2759 N84-27522 #
ISSN-0347-2809 ..... 17 p2760 N84-27529 #
ISSN-0347-2809 ..... 17 p2760 N84-27530 #
ISSN-0347-2809 ..... 17 p2761 N84-27538 #
ISSN-0347-2809 ..... 17 p2761 N84-27540 #
ISSN-0347-2809 ..... 17 p2762 N84-27541 #
ISSN-0347-2809 ..... 19 p3064 N84-29439 #
ISSN-0347-2809 ..... 19 p3090 N84-29622 #
ISSN-0347-2809 ..... 19 p3090 N84-29623 #
ISSN-0347-2809 ..... 19 p3091 N84-29624 #
ISSN-0347-2809 ..... 19 p3091 N84-29625 #
ISSN-0347-2809 ..... 19 p3094 N84-29648 #
ISSN-0347-2809 ..... 19 p3094 N84-29649 #
ISSN-0347-2809 ..... 19 p3095 N84-29654 #
ISSN-0347-2809 ..... 23 p3818 N84-34214 #
ISSN-0347-2809 ..... 23 p3819 N84-34215 #
ISSN-0347-2809 ..... 23 p3820 N84-34228 #
ISSN-0347-3694 ..... 02 p0189 N84-11227 #
ISSN-0347-3694 ..... 02 p0192 N84-11246 #
ISSN-0347-3694 ..... 05 p0686 N84-14507 #
ISSN-0347-3694 ..... 05 p0746 N84-14899 #
ISSN-0347-3694 ..... 06 p0799 N84-15208 #
ISSN-0347-3694 ..... 07 p0968 N84-16274 #
ISSN-0347-3694 ..... 08 p1101 N84-17159 #
ISSN-0347-3694 ..... 08 p1172 N84-17634 #
ISSN-0347-3694 ..... 08 p1206 N84-17864 #
ISSN-0347-3694 ..... 08 p1213 N84-17916 #
ISSN-0347-3694 ..... 08 p1228 N84-18025 #
ISSN-0347-3694 ..... 12 p1810 N84-21800 #
ISSN-0347-3694 ..... 12 p1810 N84-21801 #
ISSN-0347-3694 ..... 12 p1848 N84-22046 #
ISSN-0347-3694 ..... 15 p2280 N84-24695 #
ISSN-0347-3694 ..... 15 p2303 N84-24820 #
ISSN-0347-3694 ..... 15 p2305 N84-24831 #
ISSN-0347-3694 ..... 15 p2336 N84-25023 #
ISSN-0347-3694 ..... 15 p2349 N84-25102 #
ISSN-0347-3694 ..... 15 p2350 N84-25103 #
ISSN-0347-3694 ..... 15 p2366 N84-25197 #
ISSN-0347-3694 ..... 15 p2368 N84-25208 #
ISSN-0347-3694 ..... 15 p2390 N84-25340 #
ISSN-0347-3694 ..... 15 p2406 N84-25445 #
ISSN-0347-3694 ..... 15 p2418 N84-25516 #
ISSN-0347-3694 ..... 16 p2498 N84-26030 #
ISSN-0347-3694 ..... 16 p2544 N84-26332 #
ISSN-0347-3694 ..... 18 p2880 N84-28287 #
ISSN-0347-3694 ..... 19 p2996 N84-28985
ISSN-0347-3694 ..... 19 p3003 N84-29030 #
ISSN-0347-3694 ..... 19 p3030 N84-29220 #
ISSN-0347-3694 ..... 19 p3042 N84-29304 #
ISSN-0347-3694 ..... 20 p3316 N84-31058 #
ISSN-0347-3708 ..... 02 p0211 N84-11380 #
ISSN-0347-3708 ..... 02 p0228 N84-11496 #
ISSN-0347-3708 ..... 02 p0295 N84-11935 #
ISSN-0347-3708 ..... 03 p0402 N84-12630 #
ISSN-0347-3708 ..... 06 p0826 N84-15388 #
ISSN-0347-3708 ..... 06 p0831 N84-15407 #
ISSN-0347-3708 ..... 06 p0867 N84-15644 #
ISSN-0347-3708 ..... 08 p1106 N84-17192 #
ISSN-0347-3708 ..... 08 p1146 N84-17460 #
ISSN-0347-3708 ..... 08 p1146 N84-17461 #
ISSN-0347-3708 ..... 08 p1152 N84-17503 #
ISSN-0347-3708 ..... 08 p1165 N84-17586 #
ISSN-0347-3708 ..... 08 p1179 N84-17682 #
ISSN-0347-3708 ..... 08 p1214 N84-17917 #
ISSN-0347-3708 ..... 08 p1214 N84-17918 #
ISSN-0347-3708 ..... 10 p1484 N84-19701 #
ISSN-0347-3708 ..... 10 p1489 N84-19738 #
ISSN-0347-3708 ..... 10 p1489 N84-19739 #
ISSN-0347-3708 ..... 10 p1500 N84-19802 #
ISSN-0347-3708 ..... 10 p1527 N84-20002 #
ISSN-0347-3708 ..... 10 p1572 N84-20303 #
ISSN-0347-3708 ..... 12 p1814 N84-21824 #
ISSN-0347-3708 ..... 15 p2320 N84-24930 #
ISSN-0347-3708 ..... 15 p2320 N84-24931 #
ISSN-0347-3708 ..... 15 p2359 N84-25156 #
ISSN-0347-3708 ..... 15 p2388 N84-25326 #
ISSN-0347-3708 ..... 15 p2390 N84-25341 #

ISSN-0347-3708 ..... 15 p2391 N84-25346 #
ISSN-0347-3708 ..... 15 p2397 N84-25380 #
ISSN-0347-3708 ..... 15 p2407 N84-25446 #
ISSN-0347-3708 ..... 15 p2417 N84-25514 #
ISSN-0347-3708 ..... 18 p2830 N84-27968 #
ISSN-0347-3708 ..... 18 p2830 N84-27969 #
ISSN-0347-3708 ..... 19 p3042 N84-29305 #
ISSN-0347-3708 ..... 23 p3732 N84-33653 #
ISSN-0347-3708 ..... 23 p3744 N84-33736 #
ISSN-0347-3708 ..... 23 p3752 N84-33785 #
ISSN-0347-3708 ..... 23 p3831 N84-34301 #
ISSN-0347-6405 ..... 18 p2928 N84-28567 #
ISSN-0347-7665 ..... 03 p0416 N84-12724 #
ISSN-0347-7665 ..... 08 p1141 N84-17422 #
ISSN-0347-7665 ..... 10 p1552 N84-20172 #
ISSN-0347-7665 ..... 10 p1555 N84-20193 #
ISSN-0347-7665 ..... 10 p1592 N84-20431 #
ISSN-0347-7665 ..... 15 p2390 N84-25343 #
ISSN-0347-7665 ..... 15 p2417 N84-25515 #
ISSN-0347-7665 ..... 18 p2790 N84-27706 #
ISSN-0347-7665 ..... 18 p2790 N84-27707 #
ISSN-0347-7665 ..... 18 p2790 N84-27708 #
ISSN-0347-7665 ..... 18 p2901 N84-28402 #
ISSN-0347-7665 ..... 18 p2922 N84-28528 #
ISSN-0347-7665 ..... 19 p2959 N84-28756 #
ISSN-0347-7665 ..... 19 p3116 N84-29604 #
ISSN-0347-7665 ..... 20 p3260 N84-30692 #
ISSN-0348-268X ..... 20 p3292 N84-30699 #
ISSN-0348-7539 ..... 02 p0251 N84-11641 #
ISSN-0348-7539 ..... 02 p0297 N84-11947 #
ISSN-0348-7539 ..... 02 p0297 N84-11948 #
ISSN-0348-7539 ..... 02 p0297 N84-11949 #
ISSN-0348-7539 ..... 02 p0307 N84-12013* #
ISSN-0348-7539 ..... 12 p1912 N84-22455 #
ISSN-0348-7539 ..... 12 p1922 N84-22520 #
ISSN-0348-7539 ..... 12 p1922 N84-22521 #
ISSN-0348-7539 ..... 17 p2766 N84-27564
ISSN-0348-7539 ..... 18 p2934 N84-28610 #
ISSN-0348-7539 ..... 18 p2935 N84-28611 #
ISSN-0348-7539 ..... 18 p2952 N84-28713 #
ISSN-0349-0068 ..... 12 p1861 N84-22128 #
ISSN-0349-2656 ..... 15 p2428 N84-25585 #
ISSN-0349-2658 ..... 18 p2880 N84-28288 #
ISSN-0349-2656 ..... 18 p2935 N84-28612 #
ISSN-0349-2699 ..... 20 p3243 N84-30588 #
ISSN-0349-2702 ..... 03 p0409 N84-12674 #
ISSN-0349-2702 ..... 17 p2728 N84-27367 #
ISSN-0355-0087 ..... 12 p1892 N84-22325 #
ISSN-0355-0087 ..... 21 p3475 N84-32027
ISSN-0355-1717 ..... 07 p1035 N84-16716 #
ISSN-0355-1717 ..... 19 p3052 N84-29366 #
ISSN-0355-5712 ..... 09 p1337 N84-18733 #
ISSN-0355-5712 ..... 09 p1390 N84-19081 #
ISSN-0355-5712 ..... 09 p1416 N84-19268 #
ISSN-0355-5712 ..... 09 p1417 N84-19269 #
ISSN-0355-5712 ..... 10 p1572 N84-20301 #
ISSN-0355-5712 ..... 15 p2320 N84-24925 #
ISSN-0355-5712 ..... 15 p2320 N84-24926 #
ISSN-0355-5712 ..... 15 p2320 N84-24927 #
ISSN-0355-5712 ..... 15 p2320 N84-24928 #
ISSN-0355-5712 ..... 15 p2328 N84-24978 #
ISSN-0355-5712 ..... 15 p2424 N84-25564 #
ISSN-0356-1852 ..... 13 p2012 N84-23052 #
ISSN-0356-1852 ..... 13 p2012 N84-23053 #
ISSN-0356-6951 ..... 08 p1214 N84-17921 #
ISSN-0358-2620 ..... 04 p0483 N84-13175 #
ISSN-0358-2620 ..... 12 p1765 N84-21512 #
ISSN-0358-5069 ..... 15 p2296 N84-24778 #
ISSN-0358-5069 ..... 20 p3199 N84-30318 #
ISSN-0358-5077 ..... 02 p0198 N84-11288 #
ISSN-0358-5077 ..... 07 p0977 N84-16333 #
ISSN-0358-5077 ..... 07 p1013 N84-16570 #
ISSN-0358-5077 ..... 07 p1017 N84-16599 #
ISSN-0358-5077 ..... 07 p1073 N84-16975 #
ISSN-0358-5077 ..... 14 p2155 N84-23912 #
ISSN-0358-5077 ..... 14 p2156 N84-23920 #
ISSN-0358-5077 ..... 15 p2296 N84-24777 #
ISSN-0358-5077 ..... 15 p2336 N84-25021 #
ISSN-0358-5077 ..... 19 p3033 N84-29240 #
ISSN-0361-1981 ..... 05 p0701 N84-14602 #
ISSN-0361-1981 ..... 12 p1804 N84-21763 #
ISSN-0366-0885 ..... 03 p0357 N84-12323 #
ISSN-0366-0885 ..... 05 p0646 N84-14247 #
ISSN-0366-0885 ..... 05 p0657 N84-14318 #
ISSN-0366-0885 ..... 05 p0657 N84-14319 #
ISSN-0366-0885 ..... 10 p1495 N84-19773 #
ISSN-0366-0885 ..... 13 p2046 N84-23275 #
ISSN-0366-0885 ..... 18 p2819 N84-27901 #
ISSN-0366-0885 ..... 23 p3720 N84-33584 #
ISSN-0366-0885 ..... 23 p3752 N84-33786 #
ISSN-0366-0885 ..... 23 p3757 N84-33816 #
ISSN-0366-0885 ..... 23 p3831 N84-34302 #
ISSN-0366-9106 ..... 13 p2046 N84-23277 #
ISSN-0370-8454 ..... 21 p3527 N84-32340 #
ISSN-0373-0956 ..... 13 p2031 N84-23172 #
ISSN-0373-0956 ..... 14 p2210 N84-24264 #
ISSN-0373-0956 ..... 22 p3633 N84-33025 #
ISSN-0373-0956 ..... 22 p3635 N84-33038 #
ISSN-0374-1257 ..... 11 p1731 N84-21291* #
ISSN-0374-1257 ..... 16 p2487 N84-25949 #
ISSN-0379-4059 ..... 16 p2458 N84-25760 #
ISSN-0379-4059 ..... 16 p2462 N84-25780 #
ISSN-0379-4059 ..... 16 p2463 N84-25787 #
ISSN-0379-4059 ..... 16 p2465 N84-25798 #
ISSN-0379-4059 ..... 16 p2465 N84-25799 #
ISSN-0379-4059 ..... 16 p2465 N84-25800 #
ISSN-0379-4059 ..... 16 p2471 N84-25834 #
ISSN-0379-4059 ..... 16 p2471 N84-25835 #
ISSN-0379-4059 ..... 16 p2472 N84-25846 #
ISSN-0379-4059 ..... 16 p2472 N84-25847 #
ISSN-0379-4059 ..... 16 p2472 N84-25848 #
ISSN-0379-4059 ..... 16 p2473 N84-25849 #
ISSN-0379-4059 ..... 16 p2473 N84-25850 #
ISSN-0379-4059 ..... 16 p2475 N84-25867 #
ISSN-0379-4059 ..... 16 p2475 N84-25868 #
ISSN-0379-4059 ..... 16 p2475 N84-25869 #
ISSN-0379-4059 ..... 16 p2477 N84-25881 #
ISSN-0379-4059 ..... 16 p2477 N84-25882 #
ISSN-0379-4059 ..... 16 p2484 N84-25930 #
ISSN-0379-4059 ..... 16 p2484 N84-25931 #
ISSN-0379-4059 ..... 16 p2485 N84-25937 #
ISSN-0379-4059 ..... 16 p2496 N84-26013 #
ISSN-0379-4059 ..... 16 p2499 N84-26034 #
ISSN-0379-4059 ..... 16 p2499 N84-26035 #
ISSN-0379-4059 ..... 16 p2499 N84-26036 #
ISSN-0379-4059 ..... 16 p2500 N84-26037 #
ISSN-0379-4059 ..... 16 p2500 N84-26038 #
ISSN-0379-4059 ..... 16 p2500 N84-26039 #
ISSN-0379-4059 ..... 16 p2500 N84-26040 #
ISSN-0379-4059 ..... 16 p2500 N84-26041 #
ISSN-0379-4059 ..... 16 p2500 N84-26042 #
ISSN-0379-4059 ..... 16 p2500 N84-26043 #
ISSN-0379-4059 ..... 16 p2500 N84-26044 #
ISSN-0379-4059 ..... 16 p2500 N84-26046 #
ISSN-0379-4059 ..... 16 p2500 N84-26047 #
ISSN-0379-4059 ..... 16 p2555 N84-26393 #
ISSN-0379-4059 ..... 20 p3182 N84-30215 #
ISSN-0379-4067 ..... 03 p0342 N84-12220 #
ISSN-0379-4067 ..... 12 p1778 N84-21604 #
ISSN-0379-4067 ..... 20 p3135 N84-29904 #
ISSN-0379-4067 ..... 23 p3720 N84-33585 #
ISSN-0379-4075 ..... 23 p3701 N84-33460 #
ISSN-0379-4075 ..... 23 p3832 N84-34306 #
ISSN-0379-6566 ..... 03 p0339 N84-12197 #
ISSN-0379-6566 ..... 03 p0395 N84-12579 #
ISSN-0379-6566 ..... 05 p0634 N84-14172 #
ISSN-0379-6566 ..... 05 p0721 N84-14729 #
ISSN-0379-6566 ..... 08 p1115 N84-17253 #
ISSN-0379-6566 ..... 08 p1174 N84-17650 #
ISSN-0379-6566 ..... 09 p1260 N84-18227 #
ISSN-0379-6566 ..... 09 p1294 N84-18454 #
ISSN-0379-6566 ..... 09 p1407 N84-19196 #
ISSN-0379-6566 ..... 10 p1439 N84-19396 #
ISSN-0379-6566 ..... 12 p1776 N84-21590 #
ISSN-0379-6566 ..... 15 p2371 N84-25224 #
ISSN-0379-6566 ..... 15 p2424 N84-25563 #
ISSN-0379-6566 ..... 16 p2576 N84-26531 #
ISSN-0379-6566 ..... 17 p2612 N84-26719 #
ISSN-0379-6566 ..... 18 p2946 N84-28680 #
ISSN-0379-6566 ..... 23 p3764 N84-33857 #
ISSN-0379-6566 ..... 23 p3777 N84-33946* #
ISSN-0379-6566 ..... 23 p3804 N84-34118 #
ISSN-0379-6566 ..... 23 p3807 N84-34138 #
ISSN-0379-6566 ..... 24 p3903 N84-34715 #
ISSN-0379-6566 ..... 24 p3970 N84-35135 #
ISSN-0385-3683 ..... 23 p3762 N84-33842 #
ISSN-0385-7719 ..... 13 p2039 N84-23228 #
ISSN-0385-7719 ..... 22 p3563 N84-32565 #
ISSN-0385-7719 ..... 23 p3740 N84-33707 #
ISSN-0388-9653 ..... 09 p1346 N84-18796 #
ISSN-0388-9653 ..... 16 p2528 N84-26230 #
ISSN-0388-9653 ..... 24 p3921 N84-34816 #
ISSN-0389-617X ..... 21 p3476 N84-32034 #
ISSN-0389-4010 ..... 04 p0479 N84-13154 #
ISSN-0389-4010 ..... 04 p0487 N84-13200 #
ISSN-0389-4010 ..... 04 p0489 N84-13213 #
ISSN-0389-4010 ..... 04 p0532 N84-13495 #
ISSN-0389-4010 ..... 04 p0548 N84-13611 #
ISSN-0389-4010 ..... 04 p0586 N84-13872 #
ISSN-0389-4010 ..... 09 p1251 N84-18166 #
ISSN-0389-4010 ..... 09 p1251 N84-18167 #
ISSN-0389-4010 ..... 09 p1251 N84-18168 #
ISSN-0389-4010 ..... 09 p1254 N84-18184 #
ISSN-0389-4010 ..... 09 p1257 N84-18208 #
ISSN-0389-4010 ..... 09 p1258 N84-18213 #
ISSN-0389-4010 ..... 09 p1259 N84-18215 #
ISSN-0389-4010 ..... 09 p1266 N84-18264 #
ISSN-0389-4010 ..... 09 p1272 N84-18309 #
ISSN-0389-4010 ..... 09 p1274 N84-18316 #
ISSN-0389-4010 ..... 09 p1274 N84-18317 #
ISSN-0389-4010 ..... 09 p1274 N84-18318 #
ISSN-0389-4010 ..... 09 p1274 N84-18319 #

ISSN-0389-4010 09 p1274 N84-18320 #
ISSN-0389-4010 09 p1312 N84-18574 #
ISSN-0389-4010 09 p1313 N84-18579 #
ISSN-0389-4010 09 p1313 N84-18580 #
ISSN-0389-4010 09 p1330 N84-18684 #
ISSN-0389-4010 09 p1372 N84-18962 #
ISSN-0389-4010 09 p1386 N84-19053 #
ISSN-0389-4010 09 p1394 N84-19101 #
ISSN-0389-4010 09 p1416 N84-19265 #
ISSN-0389-4010 12 p1777 N84-21599 #
ISSN-0389-4010 12 p1818 N84-21850 #
ISSN-0389-4010 15 p2331 N84-24997 #
ISSN-0389-4010 16 p2439 N84-25649 #
ISSN-0389-4010 16 p2440 N84-25650 #
ISSN-0389-4010 16 p2440 N84-25651 #
ISSN-0389-4010 16 p2459 N84-25763 #
ISSN-0389-4010 16 p2470 N84-25832 #
ISSN-0389-4010 16 p2495 N84-26009 #
ISSN-0389-4010 16 p2496 N84-26026 #
ISSN-0389-4010 16 p2501 N84-26055 #
ISSN-0389-4010 16 p2538 N84-26292 #
ISSN-0389-4010 16 p2548 N84-26354 #
ISSN-0389-4041 04 p0548 N84-13612 #
ISSN-0436-1199 02 p0177 N84-11159 #
ISSN-0436-1199 05 p0652 N84-14285 #
ISSN-0436-1199 07 p1004 N84-16510 #
ISSN-0436-1199 10 p1577 N84-20334 #
ISSN-0436-1199 12 p1766 N84-21520 #
ISSN-0436-1199 13 p1958 N84-22730 #
ISSN-0436-1199 13 p1958 N84-22731 #
ISSN-0436-1199 13 p2006 N84-23015 #
ISSN-0436-1199 13 p2041 N84-23244 #
ISSN-0436-1199 13 p2041 N84-23245 #
ISSN-0436-1199 17 p2668 N84-27016 #
ISSN-0436-1199 18 p2837 N84-28009 #
ISSN-0436-1199 18 p2930 N84-28582 #
ISSN-0436-1199 19 p3026 N84-29189 #
ISSN-0436-1199 20 p3151 N84-30008 #
ISSN-0436-1199 20 p3151 N84-30010 #
ISSN-0436-1199 20 p3297 N84-30935 #
ISSN-0436-1199 20 p3297 N84-30936 #
ISSN-0436-1199 23 p3715 N84-33552 #
ISSN-0436-1199 23 p3823 N84-34248 #
ISSN-0436-1199 23 p3824 N84-34249 #
ISSN-0436-1199 24 p3881 N84-34588 #
ISSN-0439-3538 15 p2352 N84-25112 #
ISSN-0469-4236 07 p1018 N84-16602 #
ISSN-0469-4236 08 p1173 N84-17643 #
ISSN-0469-4236 19 p3040 N84-29286 #
ISSN-0469-4236 20 p3225 N84-30495 #
ISSN-0469-4244 19 p3039 N84-29279 #
ISSN-0469-4244 19 p3043 N84-29306 #
ISSN-0531-4496 20 p3319 N84-31067 #
ISSN-0547-1567 11 p1733 N84-21303 #
ISSN-0547-5570 14 p2135 N84-23798 #
ISSN-0549-3811 07 p0984 N84-16374 #
ISSN-0568-0581 03 p0378 N84-12462* #
ISSN-0568-0581 03 p0407 N84-12664* #
ISSN-0721-1694 16 p2520 N84-26180
ISSN-0721-4529 09 p1334 N84-18709 #
ISSN-0721-4529 09 p1334 N84-18710* #
ISSN-0721-4529 18 p2815 N84-27872 #
ISSN-0721-5320 10 p1518 N84-19937 #
ISSN-0723-0506 17 p2751 N84-27459
ISSN-0723-4325 02 p0233 N84-11528 #
ISSN-0724-309X 10 p1592 N84-20429 #
ISSN-0724-309X 10 p1592 N84-20430 #
ISSN-0724-3316 16 p2485 N84-25939
ISSN-0751-1337 15 p2390 N84-25338 #
ISSN-0751-1337 19 p3094 N84-29653 #
ISSN-0751-1353 19 p3010 N84-29083 #
ISSN-0751-1353 19 p3113 N84-29781 #
ISSN-0780-9727 18 p2900 N84-28398 #
ISSN-0800-4412 21 p3457 N84-31937 #
ISSN-2262-5369 15 p2385 N84-25305

ISTI/PIR-81-05585-2 05 p0758 N84-14972 #

ISU-ERI-AMES-84178 19 p2966 N84-28796 #
ISU-ERI-AMES-84179 19 p2966 N84-28797 #
ISU-ERI-AMES-84414 03 p0311 N84-12028* #
ISU-ERI-AMES-84432 19 p3020 N84-29148* #

ISVR-TR-120 03 p0391 N84-12548 #
ISVR-TR-121 04 p0548 N84-13613 #
ISVR-TR-122A 15 p2404 N84-25427 #
ISVR-TR-123 20 p3260 N84-30694 #

ISWS/BULL-68-84 14 p2181 N84-24069 #

ISWS/CON-340-84-VOL-1 20 p3248 N84-30620 #

ITOP-4-2-826 05 p0684 N84-14497 #
ITOP-6-2-242 19 p3005 N84-29044 #

ITR-1 06 p1132 N84-17360 #

ITR-1 14 p2209 N84-24260 #
ITR-1 19 p3096 N84-29660 #
ITR-2 14 p2179 N84-24052 #
ITR-2 15 p2388 N84-25328 #
ITR-4 22 p3559 N84-32540 #
ITR-163 20 p3178 N84-30184 #

ITT-80-22-07-VOL-1 03 p0440 N84-12892 #
ITT-80-22-07-VOL-2 03 p0440 N84-12891 #

IWECO-5071303-82-1 12 p1827 N84-21911 #
IWECO-5071303-82-2 02 p0283 N84-11856 #
IWECO-5072311-82-1 18 p2854 N84-28120 #
IWECO-5074403-83-2 18 p2854 N84-28121 #
IWECO-5074403-100-83-1 18 p2922 N84-28532 #
IWECO-5075410-83-01 12 p1827 N84-21912 #
IWECO-5177401-83-1 12 p1804 N84-21761 #

IWF-8301 17 p2777 N84-27633 #
IWF-8302 17 p2728 N84-27363 #
IWF-8303 17 p2728 N84-27364 #
IWF-8304 17 p2728 N84-27365 #

IZ-83-88 01 p0042 N84-10272 #

IZF-1982-39 02 p0269 N84-11765 #
IZF-1983-7 12 p1899 N84-22370 #
IZF-1983-8 12 p1900 N84-22371 #
IZF-1983-9 12 p1869 N84-22177 #
IZF-1983-10 12 p1867 N84-22165 #
IZF-1983-15 18 p2915 N84-28487 #
IZF-1983-17 12 p1900 N84-22372 #
IZF-1983-18 12 p1892 N84-22324 #
IZF-1983-20 12 p1867 N84-22166 #
IZF-1983-21 12 p1866 N84-22158 #
IZF-1983-22 12 p1867 N84-22167 #
IZF-1983-23 12 p1900 N84-22373 #
IZF-1983-25 20 p3199 N84-30315 #
IZF-1983-27 17 p2725 N84-27345 #
IZF-1983-29 18 p2914 N84-28483 #
IZF-1984-4 20 p3182 N84-30213 #
IZF-1984-8 19 p3067 N84-29455 #
IZF-1984-10 19 p3105 N84-29730 #

JA-62 08 p1113 N84-17239* #

JACKFAU-83-302 05 p0699 N84-14587* #

JAYCOR-J200-82-447/2249 13 p1986 N84-22894 #
JAYCOR-J200-83-635/2322 16 p2458 N84-25761 #
JAYCOR-J206-82-011/6202 01 p0149 N84-10978 #
JAYCOR-J206-83-007/6221 06 p0884 N84-15751 #
JAYCOR-J206-83-008/6214 05 p0744 N84-14887 #
JAYCOR-J206-83-009/6226 06 p0884 N84-15752 #
JAYCOR-J206-83-011/6223 09 p1316 N84-18598 #
JAYCOR-J206-84-001/6207 10 p1576 N84-20328 #
JAYCOR-J206-84-007/6213 17 p2766 N84-27566 #
JAYCOR-J206-84-008/6220 22 p3586 N84-32711 #
JAYCOR-J207-83-C-001 01 p0070 N84-10457 #

JA64 07 p1079 N84-17017* #

JBP-ONR-2 17 p2745 N84-27432 #

JEN-542 04 p0593 N84-13915 #
JEN-545 04 p0578 N84-13815 #
JEN-549 04 p0578 N84-13816 #
JEN-555 17 p2729 N84-27369 #
JEN-556 16 p2561 N84-26427 #

JHU/APL/CPE-8305-VOL-8 08 p1202 N84-17834 #

JHU/APL/DST-10 11 p1761 N84-21491 #

JHU/APL/OQR-83-1 15 p2364 N84-25182 #

JHU/APL/TG-1334 05 p0680 N84-14470 #
JHU/APL/TG-1339 09 p1257 N84-18204 #
JHU/APL/TG-1341 01 p0036 N84-10230 #
JHU/APL/TG-1342 06 p0824 N84-15371 #
JHU/APL/TG-1344 13 p1982 N84-22865 #
JHU/APL/TG-1345 21 p3386 N84-31490 #

JHU/EECS-83/14 08 p1152 N84-17496 #
JHU/EECS-83/18 08 p1168 N84-17607 #
JHU/EECS-83/19 09 p1374 N84-18971 #
JHU/EECS-84/09 19 p3006 N84-29055 #

JHU/PPSE-T-18 01 p0039 N84-10245 #

JPL-BIBL-39-24 15 p2417 N84-25510* #

JPL-D-708 14 p2132 N84-23776 #
JPL-D-879 20 p3228 N84-30511* #
JPL-D-1371 17 p2654 N84-26973* #

JPL-PUB-80-23-REV-2 ..... 22 p3546 N84-32448* #
JPL-PUB-82-44-VOL-2 ..... 07 p1091 N84-17096* #
JPL-PUB-82-44-VOL-3 ..... 07 p1091 N84-17097* #
JPL-PUB-82-44-VOL-4 ..... 07 p1091 N84-17098* #
JPL-PUB-82-44-VOL-5 ..... 07 p1091 N84-17099* #
JPL-PUB-83-11 ..... 07 p0987 N84-16390* #
JPL-PUB-83-26 ..... 07 p1047 N84-16791* #
JPL-PUB-83-34 ..... 12 p1834 N84-21955* #
JPL-PUB-83-36 ..... 07 p0961 N84-16227* #
JPL-PUB-83-38 ..... 07 p0992 N84-16428* #
JPL-PUB-83-39 ..... 12 p1879 N84-22245* #
JPL-PUB-83-40A ..... 12 p1842 N84-22007* #
JPL-PUB-83-41 ..... 15 p2361 N84-25165* #
JPL-PUB-83-51 ..... 07 p1027 N84-16656* #
JPL-PUB-83-53 ..... 02 p0183 N84-11186* #
JPL-PUB-83-56 ..... 07 p1033 N84-16703* #
JPL-PUB-83-58 ..... 07 p1025 N84-16642* #
JPL-PUB-83-59 ..... 12 p1841 N84-22006* #
JPL-PUB-83-60-VOL-1 ..... 07 p1025 N84-16640* #
JPL-PUB-83-60-VOL-2 ..... 07 p1025 N84-16641* #
JPL-PUB-83-61 ..... 18 p2869 N84-28211* #
JPL-PUB-83-63 ..... 07 p1025 N84-16643* #
JPL-PUB-83-64 ..... 07 p0992 N84-16429* #
JPL-PUB-83-65 ..... 13 p2004 N84-23004* #
JPL-PUB-83-66 ..... 12 p1841 N84-22001* #
JPL-PUB-83-67 ..... 12 p1841 N84-22005* #
JPL-PUB-83-68 ..... 12 p1842 N84-22010* #
JPL-PUB-83-70 ..... 12 p1812 N84-21810* #
JPL-PUB-83-71 ..... 07 p1040 N84-16744* #
JPL-PUB-83-72 ..... 12 p1907 N84-22422* #
JPL-PUB-83-73 ..... 07 p1025 N84-16644* #
JPL-PUB-83-74 ..... 12 p1841 N84-22003* #
JPL-PUB-83-75 ..... 07 p1007 N84-16528* #
JPL-PUB-83-76 ..... 12 p1841 N84-22002* #
JPL-PUB-83-78 ..... 12 p1901 N84-22380* #
JPL-PUB-83-79 ..... 12 p1912 N84-22459* #
JPL-PUB-83-80 ..... 07 p1033 N84-16704* #
JPL-PUB-83-81 ..... 12 p1842 N84-22009* #
JPL-PUB-83-85 ..... 12 p1765 N84-21515* #
JPL-PUB-83-86 ..... 12 p1842 N84-22008* #
JPL-PUB-83-87 ..... 12 p1912 N84-22460* #
JPL-PUB-83-89 ..... 12 p1842 N84-22012* #
JPL-PUB-83-90 ..... 15 p2361 N84-25167* #
JPL-PUB-83-92 ..... 12 p1841 N84-22004* #
JPL-PUB-83-93 ..... 12 p1838 N84-21980* #
JPL-PUB-83-94 ..... 12 p1801 N84-21741* #
JPL-PUB-83-96 ..... 07 p0980 N84-16351* #
JPL-PUB-83-98 ..... 12 p1863 N84-22138* #
JPL-PUB-83-100 ..... 12 p1779 N84-21609* #
JPL-PUB-83-101 ..... 22 p3616 N84-32915* #
JPL-PUB-84-1 ..... 12 p1842 N84-22011* #
JPL-PUB-84-4 ..... 18 p2833 N84-27982* #
JPL-PUB-84-12 ..... 18 p2828 N84-27956* #
JPL-PUB-84-13 ..... 18 p2871 N84-28224* #
JPL-PUB-84-16 ..... 18 p2791 N84-27714* #
JPL-PUB-84-17 ..... 18 p2883 N84-28296* #
JPL-PUB-84-23 ..... 18 p2935 N84-28614* #
JPL-PUB-84-25 ..... 18 p2870 N84-28217* #
JPL-PUB-84-27 ..... 18 p2868 N84-28207* #
JPL-PUB-84-30 ..... 18 p2870 N84-28218* #
JPL-PUB-84-31 ..... 22 p3617 N84-32917* #
JPL-PUB-84-32 ..... 22 p3617 N84-32916* #
JPL-PUB-84-34-VOL-2 ..... 23 p3786 N84-34013* #
JPL-PUB-84-35 ..... 22 p3617 N84-32921* #
JPL-PUB-84-36 ..... 22 p3675 N84-33299* #
JPL-PUB-84-37 ..... 22 p3618 N84-32922* #
JPL-PUB-84-40 ..... 22 p3617 N84-32920* #
JPL-PUB-84-41 ..... 22 p3662 N84-33213* #
JPL-PUB-84-43 ..... 22 p3539 N84-32403* #
JPL-PUB-84-44 ..... 22 p3582 N84-32683* #
JPL-PUB-84-46 ..... 22 p3617 N84-32919* #
JPL-PUB-84-61 ..... 24 p3916 N84-34793* #

JPL-PUBL-82-43-VOL-1-PT-1 ..... 18 p2801 N84-27779* #
JPL-PUBL-82-43-VOL-1-PT-2 ..... 09 p1260 N84-18226* #
JPL-PUBL-83-82 ..... 18 p2833 N84-27981* #
JPL-PUBL-83-88 ..... 18 p2877 N84-28267* #
JPL-PUBL-83-97 ..... 18 p2871 N84-28223* #
JPL-PUBL-84-5 ..... 18 p2892 N84-28355* #
JPL-PUBL-84-6 ..... 18 p2845 N84-28067* #
JPL-PUBL-84-8 ..... 18 p2870 N84-28220* #
JPL-PUBL-84-9 ..... 18 p2869 N84-28212* #
JPL-PUBL-84-10 ..... 18 p2915 N84-28485* #
JPL-PUBL-84-11 ..... 18 p2836 N84-28003* #
JPL-PUBL-84-15 ..... 18 p2947 N84-28682* #
JPL-PUBL-84-22 ..... 18 p2929 N84-28576* #
JPL-PUBL-84-24 ..... 18 p2868 N84-28210* #

JPL-TDA-PR-42-75 ..... 04 p0518 N84-13401* #
JPL-TDA-PR-42-76 ..... 10 p1473 N84-19621* #
JPL-TDA-PR-42-78 ..... 22 p3572 N84-32622* #

JPL-400-133 ..... 13 p2018 N84-23085* #
JPL-400-145-9/82 ..... 06 p0793 N84-15168* #
JPL-400-189 ..... 16 p2574 N84-26517* #
JPL-400-205 ..... 15 p2429 N84-25588* #
JPL-400-219 ..... 18 p2953 N84-28715* #
JPL-5030-567 ..... 18 p2833 N84-27982* #
JPL-5101-134 ..... 18 p2870 N84-28217* #
JPL-5101-232 ..... 12 p1842 N84-22008* #
JPL-5101-233 ..... 12 p1912 N84-22460* #
JPL-5101-237-VOL-2 ..... 23 p3786 N84-34013* #
JPL-5101-239 ..... 12 p1838 N84-21980* #
JPL-5101-246 ..... 12 p1801 N84-21741* #
JPL-5101-247 ..... 22 p3582 N84-32683* #
JPL-5105-121 ..... 12 p1842 N84-22010* #
JPL-5105-125 ..... 12 p1841 N84-22004* #
JPL-5105-131 ..... 12 p1842 N84-22011* #
JPL-5105-135 ..... 18 p2870 N84-28218* #
JPL-5220-19 ..... 07 p1025 N84-16643* #
JPL-5220-21 ..... 12 p1842 N84-22009* #
JPL-6329-27 ..... 23 p3789 N84-34030* #
JPL-9550-910 ..... 23 p3790 N84-34035* #
JPL-9550-944 ..... 23 p3789 N84-34033* #
JPL-9950-360 ..... 23 p3789 N84-34034* #
JPL-9950-835 ..... 18 p2869 N84-28214* #
JPL-9950-857 ..... 19 p3050 N84-29352* #
JPL-9950-876 ..... 18 p2870 N84-28222* #
JPL-9950-879 ..... 23 p3788 N84-34014* #
JPL-9950-886 ..... 18 p2869 N84-28215* #
JPL-9950-889 ..... 23 p3786 N84-34015* #
JPL-9950-891 ..... 23 p3787 N84-34016* #
JPL-9950-893 ..... 18 p2870 N84-28219* #
JPL-9950-895 ..... 19 p3049 N84-29351* #
JPL-9950-901 ..... 18 p2868 N84-28209* #
JPL-9950-905 ..... 18 p2870 N84-28221* #
JPL-9950-908 ..... 18 p2868 N84-28208* #
JPL-9950-910 ..... 23 p3744 N84-33733* #
JPL-9950-914 ..... 23 p3788 N84-34023* #
JPL-9950-918 ..... 19 p3050 N84-29353* #
JPL-9950-921 ..... 18 p2869 N84-28213* #
JPL-9950-922 ..... 18 p2869 N84-28216* #
JPL-9950-924 ..... 23 p3788 N84-34025* #
JPL-9950-926 ..... 23 p3713 N84-33534* #
JPL-9950-936 ..... 23 p3788 N84-34027* #
JPL-9950-939 ..... 23 p3789 N84-34028* #
JPL-9950-940 ..... 23 p3789 N84-34029* #
JPL-9950-941 ..... 23 p3789 N84-34031* #
JPL-9950-943 ..... 23 p3789 N84-34032* #
JPL-954929-83/10 ..... 18 p2870 N84-28222* #

JPRS-CST-84-009 ..... 12 p1773 N84-21561 #

JPRS-ESA-84-004 ..... 18 p2827 N84-27946 #
JPRS-ESA-84-007 ..... 23 p3728 N84-33628 #
JPRS-ESA-84-008 ..... 14 p2174 N84-24020 #
JPRS-ESA-84-009 ..... 14 p2136 N84-23802 #
JPRS-ESA-84-010 ..... 12 p1897 N84-22356 #
JPRS-ESA-84-012 ..... 14 p2133 N84-23784 #
JPRS-ESA-84-022 ..... 18 p2918 N84-28499 #
JPRS-ESA-84-025 ..... 24 p3960 N84-35077 #
JPRS-ESA-84-027 ..... 24 p3943 N84-34963 #
JPRS-ESA-84-028 ..... 24 p3943 N84-34967 #
JPRS-ESA-84-031 ..... 24 p3960 N84-35071 #
JPRS-ESA-84-033 ..... 24 p3943 N84-34960 #
JPRS-ESA-84-035 ..... 23 p3813 N84-34178 #

JPRS-TTP-84-002 ..... 24 p3891 N84-34634 #
JPRS-TTP-84-005 ..... 15 p2327 N84-24971 #
JPRS-TTP-84-029 ..... 23 p3732 N84-33657 #

JPRS-UBB-84-003 ..... 12 p1864 N84-22145 #
JPRS-UBB-84-007 ..... 14 p2250 N84-24515 #
JPRS-UBB-84-011 ..... 18 p2894 N84-28364 #
JPRS-UBB-84-012 ..... 21 p3454 N84-31916 #
JPRS-UBB-84-013 ..... 17 p2740 N84-27397 #
JPRS-UBB-84-016 ..... 20 p3257 N84-30675 #
JPRS-UBB-84-017 ..... 21 p3455 N84-31924 #
JPRS-UBB-84-018 ..... 22 p3629 N84-32996 #
JPRS-UBB-84-020 ..... 23 p3805 N84-34128 #

JPRS-UCC-84-001 ..... 24 p3940 N84-34942 #

JPRS-UCH-84-007 ..... 24 p3867 N84-34508 #

JPRS-UEE-84-001 ..... 07 p0986 N84-16389 #
JPRS-UEE-84-002 ..... 18 p2822 N84-27915 #
JPRS-UEE-84-006 ..... 22 p3565 N84-32580 #
JPRS-UEE-84-007 ..... 17 p2630 N84-26821 #
JPRS-UEE-84-008 ..... 21 p3376 N84-31427 #

JPRS-UEQ-84-003 ..... 17 p2640 N84-26895 #
JPRS-UEQ-84-004 ..... 13 p1967 N84-22772 #

JPRS-UES-84-003 ..... 11 p1669 N84-20891 #
JPRS-UES-84-004 ..... 17 p2696 N84-27177 #
JPRS-UES-84-005 ..... 18 p2855 N84-28132 #
JPRS-UES-84-006 ..... 20 p3223 N84-30479 #

JPRS-UHR-84-009 ..... 14 p2187 N84-24103 #

JPRS-UMM-84-008 ..... 14 p2155 N84-23913 #

JPRS-UMM-84-009 ..... 14 p2188 N84-24108 #
JPRS-UMM-84-016 ..... 23 p3728 N84-33623 #
JPRS-UMM-84-017 ..... 24 p3891 N84-34640 #

JPRS-UMS-84-001 ..... 12 p1783 N84-21633 #
JPRS-UMS-84-006 ..... 23 p3705 N84-33489 #

JPRS-UNE-84-001 ..... 21 p3452 N84-31903 #

JPRS-UPM-84-001 ..... 20 p3285 N84-30862 #
JPRS-UPM-84-003 ..... 21 p3477 N84-32043 #
JPRS-UPM-84-005 ..... 21 p3484 N84-32081 #

JPRS-USB-84-001 ..... 07 p1044 N84-16769 #
JPRS-USB-84-002 ..... 12 p1864 N84-22149 #
JPRS-USB-84-004 ..... 15 p2374 N84-25247 #
JPRS-USB-84-005 ..... 20 p3252 N84-30642 #

JPRS-USP-84-001 ..... 09 p1263 N84-18247 #
JPRS-USP-84-002 ..... 12 p1774 N84-21566 #
JPRS-USP-84-003 ..... 19 p2970 N84-26823 #
JPRS-USP-84-004 ..... 21 p3347 N84-31228 #

JPRS-UST-84-004 ..... 13 p2064 N84-23387 #
JPRS-UST-84-005 ..... 13 p2065 N84-23394 #
JPRS-UST-84-007 ..... 13 p2065 N84-23391 #

JPRS-UTR-84-004 ..... 14 p2093 N84-23551 #
JPRS-UTR-84-005 ..... 18 p2784 N84-27668
JPRS-UTR-84-009 ..... 18 p2790 N84-27709 #
JPRS-UTR-84-016 ..... 17 p2598 N84-26652 #
JPRS-UTR-84-024 ..... 21 p3329 N84-31119 #
JPRS-UTR-84-026 ..... 23 p3687 N84-33368 #
JPRS-UTR-84-027 ..... 24 p3851 N84-34422 #

JPRS-WST-84-001 ..... 14 p2135 N84-23799 #
JPRS-WST-84-011 ..... 13 p2038 N84-23224 #
JPRS-WST-84-013 ..... 14 p2118 N84-23694 #
JPRS-WST-84-018 ..... 17 p2640 N84-26888 #
JPRS-WST-84-023 ..... 18 p2635 N84-27996 #
JPRS-WST-84-030 ..... 22 p3651 N84-33141 #

JPRS-83124 ..... 14 p2112 N84-23658 #
JPRS-84129 ..... 24 p3871 N84-34533 #
JPRS-84426 ..... 02 p0205 N84-11336 #
JPRS-84434 ..... 24 p3882 N84-34645 #
JPRS-84457 ..... 01 p0001 N84-10001 #
JPRS-84474 ..... 01 p0118 N84-10766 #
JPRS-84484 ..... 01 p0157 N84-11034 #
JPRS-84497 ..... 01 p0054 N84-10348
JPRS-84573 ..... 02 p0167 N84-11094 #
JPRS-84655 ..... 02 p0259 N84-11693 #
JPRS-84936 ..... 05 p0634 N84-14169 #
JPRS-84946 ..... 05 p0633 N84-14159 #
JPRS-84991 ..... 07 p1043 N84-16762 #
JPRS-85025 ..... 24 p3868 N84-34512 #

JRY-7773C-001-TR ..... 17 p2627 N84-26810 #

JSC-14710 ..... 09 p1366 N84-18919* #
JSC-17798 ..... 10 p1521 N84-19961* #
JSC-17817 ..... 10 p1521 N84-19959* #
JSC-17818 ..... 10 p1521 N84-19960* #
JSC-17878 ..... 19 p2978 N84-28881* #
JSC-18887 ..... 01 p0100 N84-10647* #
JSC-18903 ..... 12 p1829 N84-21926* #
JSC-18905 ..... 12 p1828 N84-21920* #
JSC-18906 ..... 12 p1829 N84-21921* #
JSC-18907 ..... 12 p1829 N84-21922* #
JSC-18908 ..... 12 p1829 N84-21923* #
JSC-18909 ..... 12 p1828 N84-21919* #
JSC-19211 ..... 13 p1937 N84-22597* #

JSR-82-110 ..... 24 p3951 N84-35020 #

JTCG/AS-79-V-008-CHG-1 ..... 01 p0087 N84-10567 #
JTCG/AS-81-C-002 ..... 05 p0747 N84-14905 #

JTF-83-1 ..... 09 p1300 N84-18501 #

JUEL-SPEZ-215 ..... 07 p1067 N84-16928 #
JUEL-SPEZ-222 ..... 12 p1848 N84-22047 #

JUEL-1832 ..... 03 p0357 N84-12324 #
JUEL-1834 ..... 03 p0357 N84-12323 #
JUEL-1840 ..... 05 p0646 N84-14247 #
JUEL-1843 ..... 05 p0657 N84-14318 #
JUEL-1845 ..... 05 p0657 N84-14319 #
JUEL-1858 ..... 10 p1495 N84-19773 #
JUEL-1869 ..... 13 p2046 N84-23275 #
JUEL-1873 ..... 18 p2819 N84-27901 #
JUEL-1904 ..... 23 p3720 N84-33584 #
JUEL-1909 ..... 23 p3752 N84-33786 #
JUEL-1910 ..... 23 p3831 N84-34302 #
JUEL-1911 ..... 23 p3757 N84-33816 #

JW-FR-2-AFOSR ..... 21 p3366 N84-31353 #

J207-82-002 ..... 02 p0295 N84-11937 #
J06532/C06554 ..... 05 p0628 N84-14130 #

K-0016-SR-2-TR-55 ..... 15 p2329 N84-24985 #

K/CSD-INF-83-3 ..... 01 p0081 N84-10528 #
K/CSD-INF-83-20 ..... 06 p0899 N84-15836 #

K/CSD-TM-43 ..... 07 p1056 N84-16838 #
K/CSD-TM-48 ..... 04 p0583 N84-13847 #
K/CSD-TM-52 ..... 22 p3595 N84-32765 #

K/CSD-18 ..... 10 p1494 N84-19769 #

K/D-544 ..... 05 p0760 N84-14984 #
K/D-5439 ..... 12 p1819 N84-21854 #

K/OA-5325 ..... 03 p0372 N84-12426 #
K/OA-5484 ..... 07 p1003 N84-16507 #
K/OA-5590 ..... 07 p1003 N84-16506 #

K/PS-773 ..... 21 p3360 N84-31313 #
K/PS-5013-EA ..... 06 p0851 N84-15548 #
K/PS-5033 ..... 20 p3158 N84-30057 #

K/TS-10-997 ..... 03 p0372 N84-12425 #
K/TS-11232 ..... 10 p1498 N84-19792 #

KAPL-4170 ..... 18 p2853 N84-28116 #
KAPL-4171 ..... 18 p2921 N84-28526 #
KAPL-4174 ..... 13 p1965 N84-22766 #

KBMI-WR-84-1 ..... 15 p2368 N84-25206 #

KES-U-83-6 ..... 09 p1368 N84-18930 #

KFK-EXT.6/78-1 ..... 07 p0974 N84-16309* #

KFK-PDV-103 ..... 15 p2389 N84-25332

KFK-3573 ..... 07 p1004 N84-16511 #
KFK-3593 ..... 07 p1005 N84-16518 #

KGI-PREPRINT-064 ..... 15 p2428 N84-25585 #
KGI-PREPRINT-065 ..... 18 p2935 N84-28612 #
KGI-PREPRINT-066 ..... 18 p2880 N84-28288 #

KGRD-9 ..... 10 p1537 N84-20074 #
KGRD-19 ..... 08 p1189 N84-17745 #

KHR-6 ..... 06 p0933 N84-16060* #
KHR-6 ..... 07 p1084 N84-17047* #
KHR-7 ..... 12 p1917 N84-22491* #

KICT-39 ..... 01 p0059 N84-10389 #
KICT-40 ..... 01 p0059 N84-10390 #
KICT-41 ..... 01 p0061 N84-10399 #

KMO-23 ..... 20 p3240 N84-30567 #

KMRD-5.4-8310 ..... 14 p2181 N84-24068 #

KMSF-U1359 ..... 06 p0850 N84-15546 #
KMSF-U1360 ..... 06 p0850 N84-15542 #
KMSF-U1362 ..... 06 p0850 N84-15541 #
KMSF-U1445 ..... 20 p3191 N84-30269 #

KNMI-TR-35 ..... 12 p1861 N84-22126 #
KNMI-TR-36 ..... 05 p0709 N84-14647 #
KNMI-TR-39 ..... 12 p1861 N84-22127 #
KNMI-TR-40(FM) ..... 10 p1526 N84-19999 #
KNMI-TR-41(FM) 10 p1539 N84-20081
KNMI-TR-43 ..... 13 p2017 N84-23079 #
KNMI-TR-44(CWD) ..... 10 p1541 N84-20096 #
KNMI-TR-45 ..... 16 p2529 N84-26236 #
KNMI-TR-46 ..... 17 p2734 N84-27382 #
KNMI-TR-47 ..... 18 p2891 N84-28351 #

KNMI-WR-83-10 ..... 03 p0412 N84-12698 #
KNMI-WR-83-12(FM) ..... 10 p1540 N84-20094 #
KNMI-WR-83-13 ..... 12 p1862 N84-22129 #
KNMI-WR-83-14(DM) ..... 10 p1540 N84-20095 #
KNMI-WR-83-15 ..... 12 p1862 N84-22130 #
KNMI-WR-83-16 ..... 14 p2180 N84-24057 #
KNMI-WR-84-2 ..... 15 p2368 N84-25207 #

KNMI-83-02 ..... 05 p0696 N84-14571
KNMI-152-BV-3 ..... 18 p2802 N84-27783 #
KNMI-152-BV-10 ..... 10 p1540 N84-20092 #
KNMI-164 ..... 05 p0708 N84-14635
KNMI-165-3 ..... 10 p1540 N84-20093 #

KORD-12 ..... 08 p1197 N84-17802 #
KORD-14 ..... 21 p3519 N84-32299 #

KSC-231-83 ..... 07 p0963 N84-16242* #

KTR-108 ..... 18 p2807 N84-27819* #

KU-FRL-417-22 ..... 07 p1069 N84-16942* #
KU-FRL-417-23 ..... 19 p3099 N84-29685* #
KU-FRL-6135-1 ..... 07 p0953 N84-16179* #
KU-FRL-6135-2 ..... 07 p0950 N84-16163* #

KU-IB-17/83 ..... 17 p2754 N84-27480 #

KU-SFB-80/T/216 ..... 07 p1004 N84-16512 #
KU-SFB-80/T/222 ..... 05 p0682 N84-14481 #
KU-SFB-80/T/223 ..... 14 p2146 N84-23863 #
KU-SFB-80/T/224 ..... 17 p2669 N84-27017 #

K06018 ..... 06 p1161 N84-17558* #

L-75 ..... 03 p0419 N84-12738 #
L-2178 ..... 23 p3694 N84-33412* #
L-2341 ..... 08 p1199 N84-17814 #
L-2399 ..... 08 p1199 N84-17817 #
L-2403 ..... 08 p1202 N84-17836 #
L-2404 ..... 11 p1693 N84-21047 #
L-2456 ..... 08 p1198 N84-17811 #
L-2539 ..... 11 p1694 N84-21050 #
L-2718 ..... 23 p3806 N84-34134 #
L-5486 ..... 16 p2539 N84-26298* #
L-5552 ..... 22 p3652 N84-33147* #
L-8173 ..... 18 p2784 N84-27667* #
L-11255 ..... 02 p0189 N84-11230* #
L-11732 ..... 01 p0077 N84-10504* #
L-14053 ..... 18 p2786 N84-27682* #
L-14243 ..... 23 p3760 N84-33832* #
L-14246 ..... 18 p2920 N84-28517* #
L-14825 ..... 18 p2788 N84-27694* #
L-14832 ..... 23 p3700 N84-33453* #
L-14861 ..... 17 p2751 N84-27461* #
L-14949 ..... 18 p2783 N84-27660* #
L-14955 ..... 19 p2957 N84-28743* #
L-15011 ..... 18 p2786 N84-27684* #
L-15097 ..... 01 p0139 N84-10913* #
L-15230 ..... 15 p2270 N84-24632* #
L-15408 ..... 19 p3096 N84-29662* #
L-15461 ..... 03 p0332 N84-12164* #
L-15496 ..... 11 p1646 N84-20759* #
L-15505 ..... 03 p0337 N84-12190* #
L-15521 ..... 23 p3688 N84-33377* #
L-15526 ..... 01 p0004 N84-10025* #
L-15552 ..... 17 p2599 N84-26660* #
L-15559 ..... 09 p1255 N84-18189* #
L-15582 ..... 04 p0480 N84-13161* #
L-15584 ..... 13 p1988 N84-22907* #
L-15585 ..... 02 p0173 N84-11141* #
L-15589 ..... 09 p1250 N84-18162* #
L-15602 ..... 08 p1105 N84-17184* #
L-15603 ..... 02 p0271 N84-11774* #
L-15609 ..... 04 p0479 N84-13152* #
L-15612 ..... 19 p3089 N84-29465* #
L-15617 ..... 11 p1601 N84-20487* #
L-15618 ..... 12 p1869 N84-22179* #
L-15619 ..... 04 p0482 N84-13172* #
L-15627 ..... 09 p1251 N84-18164* #
L-15629 ..... 04 p0481 N84-13163* #
L-15630 ..... 07 p1015 N84-16585* #
L-15631 ..... 06 p0781 N84-15117* #
L-15632 ..... 04 p0484 N84-13182* #
L-15639 ..... 08 p1097 N84-17132* #
L-15643 ..... 07 p0959 N84-16215* #
L-15648 ..... 04 p0481 N84-13165* #
L-15649 ..... 03 p0311 N84-12029* #
L-15650 ..... 19 p2967 N84-28801* #
L-15651 ..... 08 p1194 N84-17784* #
L-15652 ..... 04 p0594 N84-13923* #
L-15653 ..... 11 p1729 N84-21277* #
L-15655 ..... 08 p1105 N84-17186* #
L-15657 ..... 12 p1898 N84-22363* #
L-15658 ..... 04 p0548 N84-13614* #
L-15659 ..... 11 p1668 N84-20880* #
L-15660 ..... 13 p1988 N84-22906* #
L-15661 ..... 10 p1549 N84-20155* #
L-15666 ..... 02 p0223 N84-11460* #
L-15669 ..... 08 p1157 N84-17534* #
L-15670 ..... 04 p0532 N84-13500* #
L-15671 ..... 09 p1251 N84-18165* #
L-15673-PT-1 ..... 01 p0018 N84-10115* #
L-15673-PT-2 ..... 01 p0023 N84-10144* #
L-15675 ..... 04 p0481 N84-13164* #
L-15677 ..... 09 p1250 N84-18163* #
L-15679 ..... 14 p2110 N84-23650* #
L-15681 ..... 09 p1250 N84-18161* #
L-15683 ..... 07 p0997 N84-16462* #
L-15684 ..... 08 p1163 N84-17575* #
L-15685 ..... 04 p0480 N84-13162* #
L-15687 ..... 08 p1096 N84-17127* #
L-15688 ..... 02 p0167 N84-11099* #
L-15689 ..... 04 p0603 N84-13978* #
L-15690 ..... 08 p1231 N84-18044* #
L-15692 ..... 07 p0953 N84-16178* #
L-15693 ..... 20 p3152 N84-30014* #
L-15694 ..... 14 p2150 N84-23878* #
L-15695 ..... 10 p1439 N84-19393* #
L-15696 ..... 14 p2115 N84-23675* #
L-15697 ..... 08 p1103 N84-17175* #
L-15698 ..... 11 p1642 N84-20735* #
L-15699 ..... 09 p1386 N84-19052* #
L-15702 ..... 04 p0480 N84-13160* #
L-15703 ..... 09 p1329 N84-18675* #
L-15704 ..... 07 p1016 N84-16590* #
L-15705 ..... 08 p1097 N84-17134* #
L-15706 ..... 11 p1601 N84-20486* #
L-15707 ..... 03 p0343 N84-12228* #
L-15708 ..... 11 p1600 N84-20480* #
L-15711 ..... 08 p1102 N84-17165* #
L-15713 ..... 12 p1769 N84-21539* #
L-15715 ..... 09 p1342 N84-18764* #
L-15716 ..... 07 p1074 N84-16977* #
L-15718 ..... 23 p3689 N84-33379* #
L-15719 ..... 14 p2110 N84-23652* #
L-15720 ..... 04 p0562 N84-13706* #
L-15721 ..... 16 p2439 N84-25645* #
L-15722 ..... 14 p2127 N84-23750* #
L-15724 ..... 15 p2254 N84-24538* #
L-15728 ..... 18 p2785 N84-27675* #
L-15730 ..... 11 p1615 N84-20567* #
L-15731 ..... 11 p1760 N84-21485* #
L-15732 ..... 09 p1268 N84-18277* #
L-15733 ..... 08 p1109 N84-17211* #
L-15735 ..... 16 p2451 N84-25717* #
L-15736 ..... 12 p1770 N84-21542* #
L-15739 ..... 18 p2923 N84-28538* #
L-15740 ..... 18 p2785 N84-27674* #
L-15743 ..... 18 p2923 N84-28539* #
L-15745 ..... 12 p1866 N84-22162* #
L-15746 ..... 17 p2600 N84-26667* #
L-15749 ..... 19 p3039 N84-29278* #
L-15751 ..... 19 p2993 N84-28964* #
L-15752 ..... 16 p2458 N84-25758* #
L-15753 ..... 21 p3408 N84-31617* #
L-15754 ..... 12 p1904 N84-22402* #
L-15755 ..... 22 p3531 N84-32354* #
L-15757 ..... 12 p1826 N84-21901* #
L-15758 ..... 18 p2785 N84-27676* #
L-15760 ..... 15 p2403 N84-25422* #
L-15761 ..... 16 p2486 N84-25944* #
L-15762 ..... 14 p2110 N84-23654* #
L-15763 ..... 12 p1903 N84-22396* #
L-15765 ..... 12 p1889 N84-22299* #
L-15767 ..... 18 p2785 N84-27677* #
L-15771 ..... 18 p2852 N84-28112* #
L-15773 ..... 17 p2615 N84-26739* #
L-15773 ..... 22 p3530 N84-32348* #
L-15778 ..... 17 p2600 N84-26665* #
L-15779 ..... 17 p2762 N84-27543* #
L-15780 ..... 16 p2501 N84-26053* #
L-15782 ..... 24 p3854 N84-34439* #
L-15788 ..... 16 p2495 N84-26007* #
L-15789 ..... 24 p3923 N84-34828* #
L-15791 ..... 20 p3256 N84-30665* #
L-15796 ..... 21 p3491 N84-32124* #
L-15799 ..... 23 p3816 N84-34198* #
L-15801 ..... 18 p2855 N84-28131* #
L-15802 ..... 24 p3912 N84-34773* #
L-15803 ..... 19 p3070 N84-29479* #
L-15807 ..... 22 p3534 N84-32378* #
L-15809 ..... 22 p3622 N84-32952* #
L-15815 ..... 21 p3399 N84-31561* #
L-15826 ..... 23 p3817 N84-34204* #
L-15834 ..... 20 p3145 N84-29969* #

LA-TR-83-10 ..... 02 p0200 N84-11305 #
LA-TR-83-14 ..... 04 p0536 N84-13525 #
LA-TR-83-25 ..... 07 p0970 N84-16288 #
LA-TR-84-3 ..... 11 p1737 N84-21333 #
LA-TR-84-14-PT-1 ..... 21 p3370 N84-31386 #
LA-TR-84-15-PT-2 ..... 21 p3371 N84-31387 #

LA-UR-83-2113 ..... 10 p1469 N84-19592 #
LA-UR-79-1044-APP ..... 21 p3395 N84-31546 #
LA-UR-83-351 ..... 01 p0148 N84-10972 #
LA-UR-83-524 ..... 02 p0282 N84-11849 #
LA-UR-83-949 ..... 02 p0201 N84-11306 #
LA-UR-83-953 ..... 12 p1908 N84-22431 #
LA-UR-83-1023 ..... 17 p2777 N84-27632* #
LA-UR-83-1048 ..... 03 p0476 N84-13133 #
LA-UR-83-1070 ..... 08 p1236 N84-18077 #
LA-UR-83-1174 ..... 01 p0097 N84-10631 #
LA-UR-83-1207 ..... 05 p0758 N84-14969 #
LA-UR-83-1210 ..... 03 p0437 N84-12870 #
LA-UR-83-1311 ..... 01 p0142 N84-10936 #
LA-UR-83-1313 ..... 02 p0295 N84-11932 #
LA-UR-83-1328 ..... 01 p0145 N84-10955 #

LA-UR-83-1329	01	p0145	N84-10953	#
LA-UR-83-1330	01	p0145	N84-10952	#
LA-UR-83-1331	01	p0145	N84-10954	#
LA-UR-83-1362	01	p0081	N84-10526	#
LA-UR-83-1379	01	p0098	N84-10635	#
LA-UR-83-1389	02	p0277	N84-11814	#
LA-UR-83-1391	01	p0124	N84-10805	#
LA-UR-83-1392	05	p0730	N84-14795	#
LA-UR-83-1405	03	p0453	N84-12979	#
LA-UR-83-1406	03	p0463	N84-13047	#
LA-UR-83-1416	02	p0250	N84-11634	#
LA-UR-83-1429	02	p0250	N84-11635	#
LA-UR-83-1441	01	p0087	N84-10569	#
LA-UR-83-1466	03	p0439	N84-12880	#
LA-UR-83-1500	05	p0730	N84-14794	#
LA-UR-83-1557	01	p0073	N84-10481	#
LA-UR-83-1568	03	p0381	N84-12480	#
LA-UR-83-1573	02	p0214	N84-11399	#
LA-UR-83-1574	02	p0289	N84-11897	#
LA-UR-83-1584	02	p0190	N84-11236	#
LA-UR-83-1585	03	p0367	N84-12388	#
LA-UR-83-1587	02	p0226	N84-11484	#
LA-UR-83-1588	02	p0223	N84-11466	#
LA-UR-83-1596	01	p0151	N84-10994	#
LA-UR-83-1601	02	p0295	N84-11933	#
LA-UR-83-1667	01	p0088	N84-10576	#
LA-UR-83-1671	03	p0366	N84-12384	#
LA-UR-83-1678	03	p0408	N84-12672	#
LA-UR-83-1686	01	p0151	N84-10991	#
LA-UR-83-1699	01	p0088	N84-10575	#
LA-UR-83-1705	01	p0098	N84-10637	#
LA-UR-83-1724	01	p0155	N84-11019	#
LA-UR-83-1751	01	p0146	N84-10959	#
LA-UR-83-1761	05	p0738	N84-14848	#
LA-UR-83-1800	01	p0162	N84-11064	#
LA-UR-83-1854	02	p0219	N84-11433	#
LA-UR-83-1897	02	p0215	N84-11410	#
LA-UR-83-1898	03	p0446	N84-12930	#
LA-UR-83-1903	01	p0151	N84-10993	#
LA-UR-83-1928	01	p0082	N84-10536	#
LA-UR-83-1931	02	p0292	N84-11917	#
LA-UR-83-1965	02	p0293	N84-11918	#
LA-UR-83-1991	03	p0445	N84-12928	#
LA-UR-83-1996	23	p3839	N84-34352	#
LA-UR-83-2036	02	p0224	N84-11468	#
LA-UR-83-2037	02	p0227	N84-11490	#
LA-UR-83-2039	03	p0435	N84-12853	#
LA-UR-83-2041	03	p0434	N84-12845	#
LA-UR-83-2045	03	p0426	N84-12790	#
LA-UR-83-2138	02	p0220	N84-11441	#
LA-UR-83-2144	02	p0195	N84-11268	#
LA-UR-83-2146	05	p0756	N84-14960	#
LA-UR-83-2147	03	p0367	N84-12391	#
LA-UR-83-2151	03	p0380	N84-12474	#
LA-UR-83-2162	02	p0301	N84-11975	#
LA-UR-83-2166	03	p0416	N84-12723	#
LA-UR-83-2172	05	p0662	N84-14349	#
LA-UR-83-2181	02	p0220	N84-11442	#
LA-UR-83-2190	08	p1125	N84-17316	#
LA-UR-83-2228	02	p0227	N84-11487	#
LA-UR-83-2232	03	p0457	N84-13006	#
LA-UR-83-2241	05	p0756	N84-14958	#
LA-UR-83-2248	01	p0046	N84-10299	#
LA-UR-83-2249	04	p0615	N84-14057	#
LA-UR-83-2254	02	p0201	N84-11309	#
LA-UR-83-2257	03	p0419	N84-12737	#
LA-UR-83-2258	20	p3236	N84-30539	#
LA-UR-83-2289	02	p0220	N84-11446	#
LA-UR-83-2295	11	p1717	N84-21190	#
LA-UR-83-2311	04	p0608	N84-14013	#
LA-UR-83-2317	03	p0439	N84-12882	#
LA-UR-83-2319	03	p0381	N84-12483	#
LA-UR-83-2329	04	p0620	N84-14091	#
LA-UR-83-2339	03	p0440	N84-12888	#
LA-UR-83-2368	04	p0621	N84-14097	#
LA-UR-83-2379	04	p0614	N84-14051	#
LA-UR-83-2383	03	p0381	N84-12481	#
LA-UR-83-2399	03	p0442	N84-12905	#
LA-UR-83-2400	03	p0442	N84-12904	#
LA-UR-83-2411	03	p0381	N84-12484	#
LA-UR-83-2443	03	p0382	N84-12485	#
LA-UR-83-2445	04	p0529	N84-13478	#
LA-UR-83-2451	06	p0925	N84-16012	#
LA-UR-83-2466	04	p0620	N84-14092	#
LA-UR-83-2469	22	p3588	N84-32723	#
LA-UR-83-2493	04	p0583	N84-13850	#
LA-UR-83-2515	11	p1758	N84-21479	#
LA-UR-83-2540	06	p0813	N84-15290	#
LA-UR-83-2568	04	p0540	N84-13555	#
LA-UR-83-2570	04	p0611	N84-14031	#
LA-UR-83-2572	04	p0613	N84-14048	#
LA-UR-83-2579	04	p0515	N84-13387	#
LA-UR-83-2580	04	p0607	N84-14005	#
LA-UR-83-2586	07	p1094	N84-17112*	#
LA-UR-83-2593	04	p0596	N84-13936	#
LA-UR-83-2601	04	p0607	N84-14003	#
LA-UR-83-2602	04	p0522	N84-13433	#
LA-UR-83-2610	04	p0488	N84-13203	#
LA-UR-83-2622	04	p0523	N84-13440	#
LA-UR-83-2645	09	p1290	N84-18425	#
LA-UR-83-2648	04	p0535	N84-13516	#
LA-UR-83-2657	05	p0766	N84-15022	#
LA-UR-83-2685	04	p0542	N84-13572	#
LA-UR-83-2669	04	p0598	N84-13946	#
LA-UR-83-2670	04	p0599	N84-13950	#
LA-UR-83-2671	04	p0599	N84-13956	#
LA-UR-83-2678	04	p0585	N84-13863	#
LA-UR-83-2681	07	p1094	N84-17113	#
LA-UR-83-2689	04	p0494	N84-13246	#
LA-UR-83-2691	11	p1737	N84-21334	#
LA-UR-83-2702	04	p0599	N84-13953	#
LA-UR-83-2703	04	p0599	N84-13952	#
LA-UR-83-2710	05	p0677	N84-14449	#
LA-UR-83-2742	04	p0508	N84-13329	#
LA-UR-83-2744	06	p0941	N84-16114	#
LA-UR-83-2763	07	p1072	N84-16968	#
LA-UR-83-2776	07	p1093	N84-17111*	#
LA-UR-83-2777	07	p1094	N84-17114	#
LA-UR-83-2840	04	p0541	N84-13560	#
LA-UR-83-2844	04	p0622	N84-14105	#
LA-UR-83-2847	06	p0845	N84-15510	#
LA-UR-83-2851	04	p0597	N84-13942	#
LA-UR-83-2862	04	p0590	N84-13901	#
LA-UR-83-2885	19	p3073	N84-29496	#
LA-UR-83-2886	04	p0496	N84-13255	#
LA-UR-83-2887	06	p0940	N84-16105	#
LA-UR-83-2890	04	p0505	N84-13307	#
LA-UR-83-2896	06	p0879	N84-15718	#
LA-UR-83-2901	07	p1089	N84-17085	#
LA-UR-83-2928	06	p0924	N84-16007	#
LA-UR-83-2929	04	p0508	N84-13330	#
LA-UR-83-2930	05	p0763	N84-15006	#
LA-UR-83-2942	05	p0685	N84-14506	#
LA-UR-83-2969	05	p0763	N84-15007	#
LA-UR-83-2972	05	p0750	N84-14924	#
LA-UR-83-2979	06	p0935	N84-16081	#
LA-UR-83-2980	08	p1241	N84-18110	#
LA-UR-83-2982	06	p0923	N84-16003	#
LA-UR-83-2997	06	p0879	N84-15719	#
LA-UR-83-3010	09	p1324	N84-18647	#
LA-UR-83-3012	07	p0972	N84-16297	#
LA-UR-83-3014	06	p0925	N84-16014	#
LA-UR-83-3028	05	p0662	N84-14350	#
LA-UR-83-3042	06	p0830	N84-15405	#
LA-UR-83-3045	05	p0656	N84-14310	#
LA-UR-83-3049	06	p0902	N84-15854	#
LA-UR-83-3060	05	p0676	N84-14443	#
LA-UR-83-3064	05	p0755	N84-14951	#
LA-UR-83-3072	06	p0845	N84-15511	#
LA-UR-83-3085	22	p3641	N84-33088	#
LA-UR-83-3110	07	p0966	N84-16261	#
LA-UR-83-3205	08	p1160	N84-17551	#
LA-UR-83-3215	09	p1415	N84-19261	#
LA-UR-83-3216	09	p1415	N84-19262	#
LA-UR-83-3217	08	p1246	N84-18143	#
LA-UR-83-3239	11	p1683	N84-20984	#
LA-UR-83-3278	09	p1290	N84-18423	#
LA-UR-83-3361	10	p1537	N84-20070	#
LA-UR-83-3368	08	p1188	N84-17739	#
LA-UR-83-3391	08	p1126	N84-17319	#
LA-UR-83-3394	07	p1085	N84-17056	#
LA-UR-83-3395	11	p1750	N84-21423	#
LA-UR-83-3397	10	p1564	N84-20249	#
LA-UR-83-3409	10	p1499	N84-19796	#
LA-UR-83-3421	07	p1055	N84-16834	#
LA-UR-83-3422	20	p3190	N84-30268	#
LA-UR-83-3470	10	p1501	N84-19810	#
LA-UR-83-3476	10	p1586	N84-20396	#
LA-UR-83-3477	10	p1482	N84-19685	#
LA-UR-83-3480	11	p1732	N84-21298	#
LA-UR-83-3489	10	p1586	N84-20399	#
LA-UR-83-3490	10	p1586	N84-20395	#
LA-UR-83-3498	10	p1537	N84-20071	#
LA-UR-83-3505	10	p1586	N84-20394	#
LA-UR-83-3514	21	p3423	N84-31711	#
LA-UR-83-3523	11	p1655	N84-20801	#
LA-UR-83-3545	11	p1719	N84-21210	#
LA-UR-83-3549	20	p3282	N84-30837	#
LA-UR-83-3621	10	p1595	N84-20453	#
LA-UR-83-3634	11	p1674	N84-20925	#
LA-UR-83-3695	12	p1816	N84-21841	#
LA-UR-83-3701	10	p1502	N84-19820	#
LA-UR-83-3704	10	p1597	N84-20467	#
LA-UR-83-3713	10	p1457	N84-19513	#
LA-UR-83-3717	11	p1628	N84-20652	#
LA-UR-84-6	12	p1819	N84-21855	#
LA-UR-84-34	14	p2225	N84-24353	#
LA-UR-84-52	19	p3011	N84-29086	#
LA-UR-84-53	12	p1824	N84-21891	#
LA-UR-84-96	12	p1916	N84-22483	#
LA-UR-84-120	19	p3020	N84-29149	#
LA-UR-84-136	15	p2298	N84-24791	#

LA-UR-84-138 ..... 12 p1915 N84-22479 #
LA-UR-84-166 ..... 23 p3712 N84-33529 #
LA-UR-84-191 ..... 12 p1916 N84-22482 #
LA-UR-84-202 ..... 11 p1664 N84-20856 #
LA-UR-84-339 ..... 11 p1732 N84-21300 #
LA-UR-84-348 ..... 20 p3285 N84-30860 #
LA-UR-84-429 ..... 15 p2302 N84-24817 #
LA-UR-84-431 ..... 15 p2405 N84-25436 #
LA-UR-84-512 ..... 14 p2229 N84-24366 #
LA-UR-84-524 ..... 15 p2412 N84-25478 #
LA-UR-84-583 ..... 14 p2230 N84-24371 #
LA-UR-84-601 ..... 16 p2559 N84-26415 #
LA-UR-84-602 ..... 14 p2230 N84-24376 #
LA-UR-84-603 ..... 14 p2230 N84-24377 #
LA-UR-84-620 ..... 20 p3304 N84-30987 #
LA-UR-84-621 ..... 20 p3304 N84-30986 #
LA-UR-84-622 ..... 20 p3304 N84-30984 #
LA-UR-84-623 ..... 20 p3305 N84-30989 #
LA-UR-84-626 ..... 20 p3304 N84-30985 #
LA-UR-84-630 ..... 15 p2412 N84-25479 #
LA-UR-84-631 ..... 15 p2411 N84-25477 #
LA-UR-84-632 ..... 15 p2411 N84-25473 #
LA-UR-84-633 ..... 20 p3284 N84-30853 #
LA-UR-84-635 ..... 20 p3194 N84-30285 #
LA-UR-84-711 ..... 15 p2339 N84-25043 #
LA-UR-84-714 ..... 19 p3108 N84-29748 #
LA-UR-84-729 ..... 14 p2176 N84-24037 #
LA-UR-84-745 ..... 19 p3002 N84-29026 #
LA-UR-84-748 ..... 20 p3303 N84-30975 #
LA-UR-84-808 ..... 20 p3247 N84-30607 #
LA-UR-84-823 ..... 20 p3299 N84-30947 #
LA-UR-84-826 ..... 20 p3319 N84-31072 #
LA-UR-84-829 ..... 20 p3203 N84-30349 #
LA-UR-84-870 ..... 20 p3284 N84-30854 #
LA-UR-84-877 ..... 21 p3498 N84-32174 #
LA-UR-84-889 ..... 22 p3555 N84-32514 #
LA-UR-84-892 ..... 20 p3242 N84-30582 #
LA-UR-84-904 ..... 22 p3665 N84-33232 #
LA-UR-84-905 ..... 22 p3665 N84-33233 #
LA-UR-84-910 ..... 20 p3279 N84-30813 #
LA-UR-84-923 ..... 20 p3305 N84-30990 #
LA-UR-84-942 ..... 20 p3302 N84-30972 #
LA-UR-84-944 ..... 23 p3830 N84-34297 #
LA-UR-84-1020 ..... 22 p3666 N84-33244 #
LA-UR-84-1041 ..... 21 p3506 N84-32215 #
LA-UR-84-1047 ..... 20 p3273 N84-30780 #
LA-UR-84-1051 ..... 22 p3666 N84-33245 #
LA-UR-84-1052 ..... 22 p3666 N84-33243 #
LA-UR-84-1053 ..... 22 p3556 N84-32515 #
LA-UR-84-1063 ..... 20 p3305 N84-30992 #
LA-UR-84-1067 ..... 20 p3241 N84-30576 #
LA-UR-84-1075 ..... 21 p3502 N84-32198 #
LA-UR-84-1076 ..... 18 p2933 N84-28601 #
LA-UR-84-1077 ..... 21 p3502 N84-32199 #
LA-UR-84-1088 ..... 21 p3496 N84-32160 #
LA-UR-84-1104 ..... 19 p3030 N84-29219 #
LA-UR-84-1120 ..... 19 p3079 N84-29540 #
LA-UR-84-1127 ..... 20 p3303 N84-30973 #
LA-UR-84-1154 ..... 20 p3194 N84-30289 #
LA-UR-84-1185 ..... 21 p3393 N84-31533 #
LA-UR-84-1186 ..... 20 p3242 N84-30580 #
LA-UR-84-1189 ..... 21 p3403 N84-31587 #
LA-UR-84-1190 ..... 20 p3194 N84-30284 #
LA-UR-84-1191 ..... 20 p3193 N84-30278 #
LA-UR-84-1199 ..... 20 p3185 N84-30235 #
LA-UR-84-1217 ..... 20 p3193 N84-30277 #
LA-UR-84-1235 ..... 20 p3295 N84-30919 #
LA-UR-84-1238 ..... 20 p3187 N84-30248 #
LA-UR-84-1249 ..... 20 p3179 N84-30194 #
LA-UR-84-1277 ..... 21 p3387 N84-31498 #
LA-UR-84-1279 ..... 20 p3175 N84-30165 #
LA-UR-84-1281 ..... 20 p3295 N84-30920 #
LA-UR-84-1307 ..... 20 p3293 N84-30910 #
LA-UR-84-1308 ..... 20 p3175 N84-30163 #
LA-UR-84-1311 ..... 20 p3312 N84-31031 #
LA-UR-84-1324 ..... 20 p3277 N84-30804 #
LA-UR-84-1342 ..... 21 p3387 N84-31497 #
LA-UR-84-1343 ..... 21 p3387 N84-31499 #
LA-UR-84-1349 ..... 20 p3193 N84-30280 #
LA-UR-84-1354 ..... 20 p3162 N84-30082 #
LA-UR-84-1359 ..... 20 p3294 N84-30911 #
LA-UR-84-1378 ..... 22 p3655 N84-33169 #
LA-UR-84-1381 ..... 21 p3497 N84-32164 #
LA-UR-84-1384 ..... 20 p3193 N84-30279 #
LA-UR-84-1391 ..... 20 p3303 N84-30980 #
LA-UR-84-1415 ..... 21 p3410 N84-31632 #
LA-UR-84-1415 ..... 21 p3432 N84-31776 #
LA-UR-84-1424 ..... 21 p3494 N84-32139 #
LA-UR-84-1490 ..... 22 p3562 N84-32557 #
LA-UR-84-1492 ..... 21 p3423 N84-31710 #
LA-UR-84-1499 ..... 22 p3649 N84-33135 #
LA-UR-84-1504 ..... 21 p3444 N84-31855 #
LA-UR-84-1525 ..... 22 p3664 N84-33230 #
LA-UR-84-1559 ..... 21 p3498 N84-32167 #
LA-UR-84-1561 ..... 22 p3641 N84-33086 #
LA-UR-84-1583 ..... 22 p3649 N84-33136 #
LA-UR-84-1595 ..... 22 p3679 N84-33321* #
LA-UR-84-1640 ..... 21 p3523 N84-32322 #
LA-UR-84-1649 ..... 21 p3360 N84-31317 #
LA-UR-84-1666 ..... 20 p3321 N84-31081 #
LA-UR-84-1667 ..... 20 p3320 N84-31080 #
LA-UR-84-1673 ..... 21 p3402 N84-31581 #
LA-UR-84-1704 ..... 21 p3402 N84-31583 #
LA-UR-84-1705 ..... 21 p3402 N84-31582 #
LA-UR-84-1717 ..... 22 p3646 N84-33122 #
LA-UR-84-1732 ..... 02 p0224 N84-11469 #
LA-UR-84-1746 ..... 23 p3818 N84-34210 #
LA-UR-84-1773 ..... 22 p3602 N84-32818 #
LA-UR-84-1775 ..... 23 p3818 N84-34211 #
LA-UR-84-1796 ..... 22 p3629 N84-32993 #
LA-UR-84-1966 ..... 23 p3799 N84-34086* #
LA-UR-84-1981 ..... 22 p3677 N84-33311 #
LA-UR-84-2037 ..... 22 p3602 N84-32817 #
LA-UR-84-2088 ..... 23 p3839 N84-34353 #

LA-74-83-1113 ..... 01 p0085 N84-10550 #
LA-8862-MS-REV-2 ..... 22 p3588 N84-32725 #
LA-8972-MS ..... 02 p0218 N84-11432 #
LA-9389-PR ..... 02 p0186 N84-11211 #
LA-9477-MS ..... 06 p0920 N84-15978 #
LA-9594-MS ..... 06 p0920 N84-15977 #
LA-9613-MS ..... 08 p1233 N84-18058 #
LA-9623-MS ..... 02 p0301 N84-11973 #
LA-9637-MS ..... 01 p0124 N84-10807 #
LA-9648-MS ..... 20 p3242 N84-30583 #
LA-9650-MS ..... 06 p0797 N84-15197 #
LA-9651-MS ..... 06 p0813 N84-15292 #
LA-9695-MS ..... 01 p0143 N84-10937 #
LA-9710 ..... 01 p0143 N84-10941 #
LA-9737-MS ..... 07 p1077 N84-17001 #
LA-9752-MS ..... 03 p0434 N84-12843 #
LA-9763-M ..... 08 p1126 N84-17318 #
LA-9767-C ..... 03 p0382 N84-12488 #
LA-9770-MS ..... 03 p0419 N84-12736 #
LA-9785 ..... 05 p0750 N84-14928 #
LA-9787-PR ..... 09 p1310 N84-18564 #
LA-9788-MS ..... 04 p0610 N84-14023 #
LA-9792-M ..... 12 p1884 N84-22280 #
LA-9794-PR ..... 03 p0437 N84-12969 #
LA-9798-P ..... 07 p1073 N84-16972 #
LA-9811-MS ..... 11 p1629 N84-20660 #
LA-9814-MS ..... 04 p0523 N84-13439 #
LA-9830-MS ..... 04 p0541 N84-13564 #
LA-9835-PR ..... 05 p0745 N84-14896 #
LA-9840-MS ..... 04 p0564 N84-13719 #
LA-9842-MS ..... 04 p0558 N84-13681 #
LA-9848-MS ..... 07 p1077 N84-17002 #
LA-9849-MS ..... 06 p0830 N84-15402 #
LA-9856-MS ..... 06 p0918 N84-15967 #
LA-9861-M ..... 05 p0730 N84-14796 #
LA-9870 ..... 12 p1799 N84-21732 #
LA-9871-MS ..... 06 p0853 N84-15561 #
LA-9872-MS ..... 14 p2230 N84-24374 #
LA-9874-PR ..... 12 p1848 N84-22045 #
LA-9875-MS ..... 08 p1238 N84-18093 #
LA-9880-MS ..... 14 p2229 N84-24368 #
LA-9888-T ..... 08 p1233 N84-18059 #
LA-9890-MS ..... 11 p1728 N84-21272 #
LA-9892-MS ..... 09 p1383 N84-19094 #
LA-9894-PR ..... 07 p1074 N84-16981 #
LA-9895-MS ..... 12 p1794 N84-21698 #
LA-9906-PR ..... 07 p1074 N84-16978 #
LA-9908 ..... 14 p2142 N84-23846 #
LA-9918-PR ..... 07 p1074 N84-16979 #
LA-9934-PR ..... 07 p1074 N84-16980 #
LA-9939-PR ..... 12 p1904 N84-22396 #
LA-9954-MS ..... 15 p2420 N84-25536 #
LA-9974-T ..... 20 p3296 N84-30927 #
LA-9980-PR ..... 12 p1904 N84-22399 #
LA-10000-PR ..... 14 p2224 N84-24344 #
LA-10005 ..... 22 p3638 N84-33066 #
LA-10019-MS ..... 21 p3361 N84-31323 #
LA-10020-MS ..... 23 p3828 N84-34293 #
LA-10025 ..... 20 p3186 N84-30245 #
LA-10029-MS ..... 22 p3659 N84-33196 #
LA-10035-MS ..... 20 p3180 N84-30203 #
LA-10048-MS ..... 20 p3282 N84-30836 #
LA-10057-PR ..... 20 p3296 N84-30943 #
LA-10059-PR ..... 20 p3180 N84-30200 #
LA-10060-MS ..... 23 p3829 N84-34286 #
LA-10065-MS ..... 23 p3823 N84-34241 #
LA-10078-MS ..... 22 p3595 N84-32769 #

LAIR-84-48 ..... 24 p3936 N84-34917 #
LAIR-158 ..... 06 p0886 N84-15758 #
LAIR-177 ..... 24 p3936 N84-34916 #

LALP-82-30 ..... 07 p1094 N84-17116 #
LALP-83-25 ..... 02 p0191 N84-11240 #
LALP-83-44 ..... 05 p0748 N84-14910 #
LALP-84-18 ..... 20 p3284 N84-30855 #

LAP-2 ..... 19 p3083 N84-29569 #
LAP-4 ..... 19 p3083 N84-29568 #
LAP-5 ..... 19 p3083 N84-29570 #

LARS-CR-020984 ..... 16 p2506 N84-26082* #
LARS-CR-050984 ..... 17 p2709 N84-27250* #
LARS-CR-080984 ..... 22 p3613 N84-32693* #
LARS-CR-110983 ..... 04 p0551 N84-13629* #

LARS-TR-011584 ..... 17 p2710 N84-27253* #
LARS-TR-021584 ..... 17 p2709 N84-27252* #
LARS-TR-030784 ..... 17 p2710 N84-27254* #

LARS-022183 ..... 12 p1829 N84-21925* #

LBF-FB-169(183) ..... 10 p1518 N84-19937 #

LBL-PUB-3033 ..... 02 p0274 N84-11790 #
LBL-PUB-3036 ..... 20 p3274 N84-30784 #

LBL-91-SUPPL ..... 06 p0910 N84-15910 #
LBL-8688-REV-3 ..... 16 p2519 N84-26170 #
LBL-8706-REV-3-SUPPL ..... 16 p2519 N84-26171 #
LBL-10070 ..... 03 p0446 N84-12929 #
LBL-11076 ..... 12 p1884 N84-22281 #
LBL-12009-REV-2 ..... 01 p0080 N84-10520 #
LBL-13618 ..... 07 p0998 N84-16475 #
LBL-13961 ..... 01 p0047 N84-10300 #
LBL-14083 ..... 20 p3274 N84-30783 #
LBL-14810 ..... 15 p2393 N84-25360 #
LBL-14837 ..... 12 p1911 N84-22452 #
LBL-14859 ..... 01 p0069 N84-10449 #
LBL-14896 ..... 02 p0250 N84-11633 #
LBL-15051 ..... 08 p1228 N84-18022 #
LBL-15066 ..... 03 p0440 N84-12886 #
LBL-15100 ..... 02 p0299 N84-11961 #
LBL-15122 ..... 04 p0528 N84-13475 #
LBL-15127 ..... 01 p0142 N84-10934 #
LBL-15150 ..... 03 p0347 N84-12255 #
LBL-15160 ..... 01 p0143 N84-10940 #
LBL-15237 ..... 02 p0227 N84-11489 #
LBL-15289 ..... 01 p0081 N84-10524 #
LBL-15298(EXCERPT) ..... 11 p1676 N84-20937 #
LBL-15354 ..... 02 p0228 N84-11492 #
LBL-15361 ..... 02 p0224 N84-11467 #
LBL-15491-REV ..... 05 p0755 N84-14953 #
LBL-15500 ..... 12 p1828 N84-21916 #
LBL-15525 ..... 11 p1709 N84-21139 #
LBL-15525 ..... 16 p2543 N84-26320 #
LBL-15545 ..... 03 p0350 N84-12279 #
LBL-15591 ..... 01 p0037 N84-10235 #
LBL-15616 ..... 04 p0598 N84-13948 #
LBL-15646 ..... 06 p0924 N84-16009 #
LBL-15646-REV ..... 08 p1162 N84-17566 #
LBL-15731 ..... 09 p1405 N84-19178 #
LBL-15743 ..... 03 p0441 N84-12895 #
LBL-15751 ..... 04 p0535 N84-13520 #
LBL-15756 ..... 02 p0201 N84-11308 #
LBL-15762 ..... 03 p0456 N84-13003 #
LBL-15780 ..... 02 p0232 N84-11520 #
LBL-15786 ..... 04 p0495 N84-13251 #
LBL-15832 ..... 02 p0210 N84-11374 #
LBL-15834 ..... 02 p0195 N84-11267 #
LBL-15855 ..... 01 p0144 N84-10951 #
LBL-15859 ..... 02 p0203 N84-11325 #
LBL-15868 ..... 04 p0602 N84-13973 #
LBL-15877 ..... 03 p0434 N84-12847 #
LBL-15918-REV ..... 04 p0605 N84-13994 #
LBL-15942 ..... 10 p1499 N84-19795 #
LBL-15943 ..... 13 p2048 N84-23286 #
LBL-15958 ..... 10 p1564 N84-20250 #
LBL-15973 ..... 06 p0910 N84-15911 #
LBL-15983 ..... 10 p1487 N84-19722 #
LBL-15985 ..... 04 p0495 N84-13248 #
LBL-15987 ..... 02 p0299 N84-11963 #
LBL-16008 ..... 11 p1716 N84-21196 #
LBL-16024 ..... 02 p0195 N84-11269 #
LBL-16027 ..... 04 p0527 N84-13468 #
LBL-16031 ..... 04 p0538 N84-13540 #
LBL-16036 ..... 19 p3071 N84-29485 #
LBL-16042 ..... 01 p0127 N84-10832 #
LBL-16089 ..... 01 p0045 N84-10290 #
LBL-16100 ..... 05 p0697 N84-14578 #
LBL-16101 ..... 03 p0401 N84-12624 #
LBL-16106 ..... 04 p0538 N84-13538 #
LBL-16117 ..... 11 p1745 N84-21385 #
LBL-16140 ..... 09 p1418 N84-19278 #
LBL-16141 ..... 02 p0214 N84-11404 #
LBL-16142 ..... 12 p1903 N84-22394 #
LBL-16176 ..... 05 p0651 N84-14282 #
LBL-16179 ..... 13 p2045 N84-23269 #
LBL-16192 ..... 13 p1965 N84-22764 #
LBL-16194 ..... 11 p1711 N84-21156 #
LBL-16214 ..... 02 p0244 N84-11598 #
LBL-16217 ..... 04 p0527 N84-13467 #
LBL-16225 ..... 03 p0369 N84-12401 #
LBL-16235 ..... 04 p0494 N84-13245 #
LBL-16248 ..... 03 p0368 N84-12398 #
LBL-16261 ..... 19 p2995 N84-28979 #
LBL-16262 ..... 14 p2128 N84-23761 #
LBL-16263 ..... 20 p3180 N84-30202 #
LBL-16272 ..... 01 p0155 N84-11018 #
LBL-16275 ..... 10 p1456 N84-19508 #
LBL-16290 ..... 03 p0455 N84-12996 #
LBL-16295 ..... 03 p0436 N84-12861 #
LBL-16297 ..... 02 p0220 N84-11444 #
LBL-16298 ..... 08 p1236 N84-18080 #
LBL-16299 ..... 03 p0419 N84-12738 #
LBL-16304 ..... 03 p0367 N84-12392 #
LBL-16314 ..... 05 p0663 N84-14360 #
LBL-16321 ..... 15 p2418 N84-25522 #
LBL-16330 ..... 12 p1919 N84-22505 #
LBL-16371 ..... 03 p0439 N84-12885 #
LBL-16372 ..... 02 p0292 N84-11913 #
LBL-16390 ..... 04 p0598 N84-13943 #
LBL-16425 ..... 20 p3247 N84-30609 #
LBL-16445 ..... 03 p0420 N84-12749 #
LBL-16449 ..... 04 p0495 N84-13250 #
LBL-16452 ..... 04 p0558 N84-13680 #
LBL-16454 ..... 03 p0455 N84-12993 #
LBL-16470 ..... 04 p0613 N84-14049 #
LBL-16473 ..... 05 p0700 N84-14596 #
LBL-16483 ..... 04 p0600 N84-13961 #
LBL-16485 ..... 05 p0651 N84-14281 #
LBL-16505 ..... 04 p0515 N84-13384 #
LBL-16506 ..... 07 p1073 N84-16973 #
LBL-16511 ..... 01 p0075 N84-10492 #
LBL-16514 ..... 03 p0350 N84-12276 #
LBL-16527 ..... 23 p3719 N84-33576 #
LBL-16528 ..... 20 p3154 N84-30027 #
LBL-16531 ..... 18 p2815 N84-27869 #
LBL-16535 ..... 15 p2414 N84-25492 #
LBL-16536 ..... 10 p1462 N84-19546 #
LBL-16549 ..... 06 p0886 N84-15762 #
LBL-16550 ..... 10 p1462 N84-19550 #
LBL-16551 ..... 10 p1590 N84-20418 #
LBL-16556 ..... 04 p0526 N84-13462 #
LBL-16557 ..... 04 p0495 N84-13249 #
LBL-16558 ..... 04 p0613 N84-14044 #
LBL-16561 ..... 06 p0927 N84-16019 #
LBL-16596 ..... 04 p0496 N84-13253 #
LBL-16604 ..... 22 p3665 N84-33235 #
LBL-16613 ..... 11 p1634 N84-20682 #
LBL-16615 ..... 05 p0660 N84-14340 #
LBL-16633 ..... 10 p1577 N84-20333 #
LBL-16634 ..... 05 p0755 N84-14950 #
LBL-16639 ..... 08 p1231 N84-18042 #
LBL-16640 ..... 07 p1011 N84-16557 #
LBL-16659 ..... 23 p3812 N84-34170 #
LBL-16677 ..... 13 p2009 N84-23030 #
LBL-16679 ..... 07 p0999 N84-16476 #
LBL-16681 ..... 11 p1635 N84-20692 #
LBL-16692 ..... 05 p0704 N84-14621 #
LBL-16694 ..... 07 p1081 N84-17029 #
LBL-16695 ..... 14 p2243 N84-24471 #
LBL-16716 ..... 10 p1457 N84-19514 #
LBL-16723 ..... 07 p1064 N84-16900 #
LBL-16726 ..... 04 p0499 N84-13274 #
LBL-16741 ..... 09 p1342 N84-18768 #
LBL-16747 ..... 11 p1717 N84-21200 #
LBL-16754 ..... 11 p1746 N84-21393 #
LBL-16774 ..... 11 p1673 N84-20920 #
LBL-16784 ..... 12 p1794 N84-21699 #
LBL-16785 ..... 08 p1221 N84-17975 #
LBL-16795 ..... 07 p1074 N84-16982 #
LBL-16805 ..... 11 p1708 N84-21134 #
LBL-16828 ..... 11 p1629 N84-20663 #
LBL-16850 ..... 11 p1629 N84-20661 #
LBL-16864 ..... 14 p2223 N84-24339 #
LBL-16866-REV ..... 13 p2041 N84-23243 #
LBL-16890 ..... 22 p3653 N84-33159 #
LBL-16897 ..... 10 p1461 N84-19542 #
LBL-16937 ..... 11 p1730 N84-21288 #
LBL-16954 ..... 11 p1746 N84-21392 #
LBL-16959 ..... 20 p3163 N84-30083 #
LBL-16979 ..... 22 p3659 N84-33192 #
LBL-17004 ..... 14 p2123 N84-23725 #
LBL-17014 ..... 11 p1634 N84-20683 #
LBL-17050 ..... 19 p3033 N84-29238 #
LBL-17052 ..... 12 p1903 N84-22390 #
LBL-17058 ..... 15 p2364 N84-25184 #
LBL-17082 ..... 14 p2224 N84-24345 #
LBL-17091 ..... 11 p1654 N84-20796 #
LBL-17092 ..... 11 p1654 N84-20797 #
LBL-17114 ..... 12 p1915 N84-22480 #
LBL-17141 ..... 13 p2048 N84-23287 #
LBL-17145 ..... 13 p2006 N84-23014 #
LBL-17148 ..... 15 p2412 N84-25480 #
LBL-17196 ..... 22 p3588 N84-32726 #
LBL-17203 ..... 13 p2045 N84-23271 #
LBL-17206 ..... 19 p3112 N84-29775 #
LBL-17220 ..... 22 p3549 N84-32464 #

LBL-17221 ..... 19 p3025 N84-29183 #
LBL-17222 ..... 22 p3548 N84-32459 #
LBL-17223 ..... 14 p2244 N84-24473 #
LBL-17237 ..... 22 p3667 N84-33247 #
LBL-17249 ..... 12 p1915 N84-22476 #
LBL-17256 ..... 20 p3294 N84-30912 #
LBL-17269 ..... 14 p2123 N84-23727 #
LBL-17277 ..... 22 p3556 N84-32520 #
LBL-17279 ..... 14 p2252 N84-24525 #
LBL-17283 ..... 20 p3285 N84-30858 #
LBL-17293 ..... 21 p3498 N84-32173 #
LBL-17294-SUMM ..... 21 p3362 N84-31327 #
LBL-17305 ..... 19 p3112 N84-29772 #
LBL-17306 ..... 20 p3296 N84-30930 #
LBL-17329 ..... 18 p2945 N84-28675 #
LBL-17363 ..... 20 p3181 N84-30210 #
LBL-17367 ..... 19 p2989 N84-28944 #
LBL-17369 ..... 20 p3163 N84-30087 #
LBL-17370 ..... 19 p2996 N84-28982 #
LBL-17386 ..... 20 p3300 N84-30956 #
LBL-17390 ..... 21 p3359 N84-31310 #
LBL-17393 ..... 20 p3311 N84-31029 #
LBL-17397 ..... 21 p3392 N84-31525 #
LBL-17448 ..... 22 p3629 N84-32995 #
LBL-17472 ..... 21 p3493 N84-32137 #
LBL-17481 ..... 20 p3167 N84-30110 #
LBL-17561 ..... 21 p3493 N84-32138 #
LBL-17575 ..... 20 p3296 N84-30929 #
LBL-17623 ..... 21 p3361 N84-31325 #
LBL-17649 ..... 22 p3680 N84-33327 #
LBL-17666 ..... 21 p3361 N84-31322 #
LBL-17668 ..... 20 p3150 N84-30004 #
LBL-17670 ..... 21 p3505 N84-32213 #
LBL-17681 ..... 22 p3595 N84-32767 #
LBL-17716 ..... 20 p3243 N84-30586 #
LBL-17734 ..... 21 p3402 N84-31584 #
LBL-17741 ..... 21 p3393 N84-31535 #
LBL-17742 ..... 22 p3619 N84-32930 #
LBL-17775 ..... 21 p3410 N84-31626 #
LBL-17776 ..... 22 p3589 N84-32731 #
LBL-17782 ..... 21 p3445 N84-31857 #
LBL-17822 ..... 23 p3823 N84-34242 #
LBL-17910 ..... 22 p3557 N84-32521 #
LBL-158652 ..... 05 p0759 N84-14982 #

LC-26-27766 ..... 08 p1141 N84-17425 #
LC-53-61386 ..... 14 p2244 N84-24475 #
LC-62-37059 ..... 01 p0160 N84-11056 #
LC-63-37059 ..... 08 p1127 N84-17328 #
LC-63-37059 ..... 08 p1139 N84-17406 #
LC-63-37059 ..... 14 p2220 N84-24322 #
LC-79-600203 ..... 01 p0163 N84-11068 #
LC-79-640375-PT-1 ..... 22 p3680 N84-33329 #
LC-79-640375-PT-2 ..... 22 p3680 N84-33330 #
LC-79-641110 ..... 14 p2189 N84-24115 #
LC-81-834-15 ..... 09 p1291 N84-18427 #
LC-81-22424 ..... 16 p2454 N84-25737* #
LC-81-53073 ..... 03 p0402 N84-12627 #
LC-82-22302 ..... 24 p3990 N84-35248* #
LC-82-062536 ..... 09 p1291 N84-18428 #
LC-82-600335 ..... 03 p0395 N84-12577 #
LC-82-600545 ..... 03 p0329 N84-12143 #
LC-82-600563 ..... 14 p2226 N84-24357 #
LC-82-600594 ..... 08 p1210 N84-17892 #
LC-83-570 ..... 02 p0184 N84-11195 #
LC-83-1071 ..... 03 p0401 N84-12625 #
LC-83-10128 ..... 09 p1326 N84-18663 #
LC-83-13464 ..... 05 p0701 N84-14602 #
LC-83-16349 ..... 12 p1921 N84-22516* #
LC-83-20242 ..... 09 p1414 N84-19253* #
LC-83-26864 ..... 12 p1804 N84-21763 #
LC-83-51531 ..... 14 p2135 N84-23798 #
LC-83-60004-1 ..... 04 p0539 N84-13547 #
LC-83-60011-2 ..... 04 p0545 N84-13593 #
LC-83-60509 ..... 01 p0165 N84-11080 #
LC-83-61258 ..... 02 p0302 N84-11979 #
LC-83-61851 ..... 16 p2526 N84-26220 #
LC-83-62680 ..... 12 p1862 N84-22135 #
LC-83-600000 ..... 06 p0802 N84-15228 #
LC-83-600167 ..... 01 p0110 N84-10718* #
LC-83-600227 ..... 10 p1469 N84-19594 #
LC-83-600236 ..... 14 p2129 N84-23763 #
LC-83-600349 ..... 20 p3165 N84-30099 #
LC-83-600350 ..... 20 p3165 N84-30101 #
LC-83-600353 ..... 20 p3191 N84-30272 #
LC-83-600362 ..... 22 p3557 N84-32524 #
LC-83-600507 ..... 01 p0058 N84-10376 #
LC-83-600527 ..... 02 p0245 N84-11604 #
LC-83-600536 ..... 02 p0276 N84-11809 #
LC-83-600538 ..... 08 p1127 N84-17325 #
LC-83-600541 ..... 02 p0192 N84-11249 #
LC-83-600545 ..... 02 p0271 N84-11772 #
LC-83-600548 ..... 05 p0677 N84-14454 #
LC-83-600563 ..... 06 p0896 N84-15820 #
LC-83-600570 ..... 09 p1324 N84-18649 #
LC-83-600571 ..... 08 p1126 N84-17324 #

LC-83-600589 ..... 09 p1370 N84-18945 #
LC-83-600593 ..... 15 p2318 N84-24911 #
LC-83-600611 ..... 09 p1371 N84-18952 #
LC-83-600613 ..... 12 p1799 N84-21735 #
LC-83-600616 ..... 14 p2175 N84-24028 #
LC-83-600617 ..... 14 p2204 N84-24227 #
LC-83-600621 ..... 14 p2149 N84-23876 #
LC-83-600625 ..... 16 p2498 N84-26025 #
LC-83-600630 ..... 14 p2206 N84-24243 #
LC-84-11580 ..... 24 p3989 N84-35242* #
LC-84-60100 ..... 17 p2729 N84-27366 #
LC-84-600162 ..... 23 p3741 N84-33713 #
LC-84-601000 ..... 16 p2535 N84-26272 #
LC-84-601001 ..... 15 p2408 N84-25457 #
LC-84-601005 ..... 17 p2750 N84-27456 #
LC-84-601008 ..... 20 p3171 N84-30139 #
LC-84-601010 ..... 15 p2389 N84-25331 #
LC-84-601012 ..... 17 p2756 N84-27496 #
LC-84-601014 ..... 20 p3239 N84-30561 #
LC-84-601040 ..... 18 p2866 N84-28192 #
LC-84-601045 ..... 20 p3268 N84-30740 #
LC-84-601055 ..... 20 p3268 N84-30739 #
LC-84-601064 ..... 14 p2248 N84-24505 #

LCCCN-63-37059 ..... 01 p0160 N84-11055 #

LCDS-83-4 ..... 01 p0136 N84-10894 #
LCDS-83-9 ..... 09 p1378 N84-18999 #
LCDS-83-10 ..... 01 p0134 N84-10877 #
LCDS-83-12 ..... 08 p1219 N84-17958 #
LCDS-83-14 ..... 08 p1218 N84-17946 #
LCDS-83-16 ..... 06 p0901 N84-15846 #
LCDS-83-22 ..... 08 p1218 N84-17947 #
LCDS-83-23 ..... 08 p1218 N84-17945 #
LCDS-83-24 ..... 16 p2550 N84-26364 #
LCDS-84-7 ..... 19 p3089 N84-29613 #
LCDS-84-8 ..... 22 p3646 N84-33117 #

LCHC-08-01 ..... 08 p1211 N84-17901 #

LD-10-901-164 ..... 12 p1771 N84-21553* #

LDGO-82-3 ..... 06 p0866 N84-15640 #
LDGO-83-2 ..... 08 p1196 N84-17797 #
LDGO-84-2-PT-1 ..... 19 p3057 N84-29395 #

LEC-13182 ..... 09 p1366 N84-18919* #

LEMSCO-17305 ..... 10 p1521 N84-19961* #
LEMSCO-19346-VOL-5 ..... 22 p3541 N84-32416* #
LEMSCO-19346-VOL-6 ..... 22 p3541 N84-32414* #
LEMSCO-19557 ..... 01 p0100 N84-10647* #
LEMSCO-20206 ..... 12 p1829 N84-21926* #

LEOK-TR-1983-09 ..... 13 p2040 N84-23238 #
LEOK-TR-1983-12 ..... 18 p2790 N84-27704 #
LEOK-TR-1983-13 ..... 18 p2830 N84-27970 #
LEOK-TR-1984-02-PT-1 ..... 20 p3175 N84-30167 #
LEOK-TR-1984-04 ..... 20 p3176 N84-30168 #

LFD-208 ..... 15 p2318 N84-24912
LFD-210 ..... 15 p2318 N84-24913
LFD-211 ..... 15 p2259 N84-24589
LFD-215 ..... 16 p2553 N84-26381
LFD-218 ..... 15 p2318 N84-24914
LFD-219 ..... 15 p2269 N84-24627
LFD-222 ..... 23 p3729 N84-33636
LFD-223 ..... 20 p3172 N84-30144

LG82ER0184 ..... 11 p1600 N84-20481* #
LG83ER0075 ..... 01 p0005 N84-10032* #
LG83ER0137 ..... 11 p1728 N84-21275* #
LG83ER0163 ..... 04 p0480 N84-13159* #
LG83ER0164 ..... 04 p0480 N84-13158* #

LHNCBC/TR-83-10 ..... 11 p1661 N84-20840 #

LIB-PRO-0012 ..... 10 p1523 N84-19971 #
LIB-PRO-0012-VOL-1 ..... 15 p2357 N84-25144 #

LIDS-IR-1374 ..... 19 p3093 N84-29645 #

LIDS-P-1249 ..... 03 p0428 N84-12808 #
LIDS-P-1297 ..... 09 p1377 N84-18997* #
LIDS-P-1298 ..... 06 p0825 N84-15379 #
LIDS-P-1307 ..... 04 p0521 N84-13423 #
LIDS-P-1312 ..... 20 p3278 N84-30808* #
LIDS-P-1320 ..... 07 p1057 N84-16848* #
LIDS-P-1335 ..... 08 p1218 N84-17949 #
LIDS-P-1342 ..... 09 p1382 N84-19027 #
LIDS-P-1344 ..... 10 p1480 N84-19672 #
LIDS-P-1345 ..... 10 p1570 N84-20283 #
LIDS-P-1350 ..... 07 p1056 N84-16854* #
LIDS-P-1351 ..... 08 p1223 N84-17968* #
LIDS-P-1364 ..... 13 p2029 N84-23154 #
LIDS-P-1382 ..... 24 p3948 N84-35001* #

LIDS-R-1354 ..... 13 p1977 N84-22835 #

LIDS-SR-1355 ..... 18 p2925 N84-28547 #

LIDS-TH-1260 ..... 02 p0278 N84-11822* #
LIDS-TH-1332 ..... 07 p0993 N84-16437 #
LIDS-TH-1341 ..... 10 p1481 N84-19675 #
LIDS-TH-1353 ..... 20 p3174 N84-30155 #
LIDS-TH-1390 ..... 24 p3895 N84-34664 #

LINCOM-TR-0484-8219 ..... 15 p2319 N84-24920* #

LIR/08-83/1 ..... 21 p3363 N84-31335 #

LJI-LJ-83-252 ..... 07 p1084 N84-17050 #

LJI-R-83-229 ..... 01 p0140 N84-10917 #
LJI-R-83-236 ..... 11 p1714 N84-21175 #
LJI-R-84-261 ..... 24 p3950 N84-35011 #

LLL/M-146 ..... 04 p0582 N84-13843 #
LLL/M-149 ..... 14 p2149 N84-23872 #

LL3-17 ..... 16 p2456 N84-25748 #

LMDC-TR-84-4 ..... 20 p3312 N84-31035 #

LMF-102 ..... 06 p0675 N84-15694 #

LMI-AF201 ..... 05 p0626 N84-14115 #

LMI-DL302 ..... 06 p0935 N84-16077 #
LMI-DL401 ..... 19 p3116 N84-29798 #

LMI-ML214 ..... 19 p2960 N84-28763 #

LMI-NA302 ..... 08 p1238 N84-18092 #

LMSC-D636857 ..... 19 p3020 N84-29150* #
LMSC-D796673-A ..... 02 p0183 N84-11188* #
LMSC-D876763 ..... 04 p0559 N84-13685 #
LMSC-D877499 ..... 06 p0916 N84-15957* #
LMSC-D878711 ..... 16 p2448 N84-25702* #
LMSC-D883019 ..... 15 p2281 N84-24702 #
LMSC-D883023 ..... 23 p3701 N84-33458 #
LMSC-D889718 ..... 18 p2806 N84-27811* #
LMSC-D889718 ..... 18 p2806 N84-27812* #
LMSC-D889718 ..... 18 p2806 N84-27813* #
LMSC-D889718 ..... 18 p2806 N84-27814* #
LMSC-D889718-VOL-1 ..... 09 p1269 N84-18292* #
LMSC-D889718-VOL-1-ATTACH-1 ..... 09 p1270 N84-18293* #
LMSC-D889718-VOL-1-ATTACH-2 ..... 09 p1270 N84-18294* #
LMSC-D889718-VOL-2-ATTACH-2 ..... 09 p1269 N84-18291* #
LMSC-D889718-VOL-4-ATTACH-1 ..... 09 p1269 N84-18290* #
LMSC-D913930 ..... 20 p3173 N84-30151 #
LMSC-D931647 ..... 12 p1777 N84-21597* #
LMSC-D931673 ..... 11 p1622 N84-20617* #
LMSC-D973431 ..... 20 p3234 N84-30529* #

LMSC-HREC-TR-D784124 ..... 04 p0540 N84-13551 #
LMSC-HREC-TR-D867307 ..... 08 p1121 N84-17287* #
LMSC-HREC-TR-D867333-I ..... 11 p1625 N84-20635* #
LMSC-HREC-TR-D867333-II ..... 11 p1625 N84-20636* #
LMSC-HREC-TR-D867333-III ..... 11 p1625 N84-20637* #
LMSC-HREC-TR-D867333-IV ..... 11 p1625 N84-20638* #
LMSC-HREC-TR-D951333 ..... 10 p1491 N84-19748* #
LMSC-HREC-TR-D951414 ..... 21 p3354 N84-31273* #
LMSC-HREC-TR-D951490 ..... 19 p3021 N84-29153* #
LMSC-HREC-TR-D951496 ..... 19 p3034 N84-29244* #

LMSC/D059511 ..... 05 p0692 N84-14543 #
LMSC/D878096 ..... 07 p1010 N84-16550 #
LMSC/D913065 ..... 01 p0166 N84-11088 #

LNR-300 ..... 23 p3741 N84-33715* #
LNR-400 ..... 04 p0517 N84-13398* #

LP-202 ..... 07 p0995 N84-16451 #
LP-203 ..... 16 p2558 N84-26410 #
LP-205 ..... 16 p2558 N84-26411 #
LP-206 ..... 19 p3109 N84-29756 #

LPI-CONTRIB-446 ..... 14 p2175 N84-24030* #

LPI-TR-83-02 ..... 03 p0465 N84-13059* #
LPI-TR-83-03 ..... 11 p1677 N84-20947* #

LR-29619 ..... 22 p3537 N84-32395* #
LR-29911 ..... 18 p2810 N84-27836* #
LR-30000 ..... 23 p3693 N84-33402* #
LR-30206-2 ..... 19 p2967 N84-28805* #
LR-30279 ..... 09 p1254 N84-18183* #
LR-30404 ..... 02 p0193 N84-11253* #
LR-30436 ..... 02 p0174 N84-11144* #
LR-30555 ..... 04 p0491 N84-13223* #

LRSM-TR-17-REV ..... 12 p1797 N84-21725 #

LRST655/83 ..... 01 p0036 N84-10229 #

LSI-CONTRIB-526 ..... 11 p1754 N84-21448* #

LSI-TR-406-4 ..... 08 p1205 N84-17855* #
LSI-TR-481-4 ..... 08 p1205 N84-17856* #
LSI-TR-482-4 ..... 08 p1205 N84-17857* #

LSIS-84156-ESD-001 ..... 24 p3919 N84-34811 #

LSM-84-1 ..... 23 p3822 N84-34237 #

LTRI-765 ..... 18 p2890 N84-28346 #

LUMIN-81-01 ..... 05 p0746 N84-14902 #

M-458 ..... 24 p3923 N84-34829* #

M/T3B-9201-VOL-1 ..... 20 p3131 N84-29881 #

MA-RD-760-84018 ..... 17 p2627 N84-26810 #
MA-RD-770-83067A-VOL-1 ..... 22 p3540 N84-32412 #
MA-RD-770-83067B-VOL-2 ..... 22 p3540 N84-32413 #

MAE-1594 ..... 23 p3695 N84-33419 #
MAE-1664 ..... 23 p3817 N84-34203 #

MANPA-NR-492(84) ..... 11 p1626 N84-20640 #

MANPA-482(83) ..... 14 p2132 N84-23777 #
MANPA-496(84) ..... 16 p2460 N84-25765 #
MANPA-497(84) ..... 19 p3001 N84-29020 #

MAP-HANDBOOK-9 ..... 17 p2682 N84-27076* #

MATH-CENTRE-TRACTS-154-PT-1 ..... 08 p1223 N84-17990 #
MATH-CENTRE-TRACTS-155-PT-2 ..... 08 p1225 N84-17999 #
MATH-CENTRE-TRACTS-156 ..... 08 p1239 N84-18101 #
MATH-CENTRE-TRACTS-157 ..... 08 p1223 N84-17989 #
MATH-CENTRE-TRACTS-158-PT-1 ..... 08 p1207 N84-17873 #
MATH-CENTRE-TRACTS-159-PT-2 ..... 08 p1208 N84-17879 #
MATH-CENTRE-TRACTS-160 ..... 08 p1217 N84-17938 #
MATH-CENTRE-TRACTS-161 ..... 08 p1217 N84-17937 #
MATH-CENTRE-TRACTS-162 ..... 08 p1217 N84-17939 #
MATH-CENTRE-TRACTS-163 ..... 21 p3474 N84-32018 #
MATH-CENTRE-TRACTS-164 ..... 08 p1217 N84-17940 #
MATH-CENTRE-TRACTS-165 ..... 21 p3475 N84-32025 #
MATH-CENTRE-TRACTS-166 ..... 21 p3467 N84-31980 #
MATH-CENTRE-TRACTS-167 ..... 21 p3475 N84-32028 #
MATH-CENTRE-TRACTS-168 ..... 21 p3474 N84-32019 #

MATH-MATH-1983-29 ..... 17 p2759 N84-27521 #

MATHS-RES-170 ..... 23 p3818 N84-34212 #
MATHS-RES-174 ..... 07 p1067 N84-16927 #
MATHS-RES-175 ..... 19 p3091 N84-29626 #
MATHS-RES-176 ..... 19 p3010 N84-29078 #
MATHS-RES-177 ..... 20 p3200 N84-30324 #
MATHS-RES-178 ..... 19 p3114 N84-29783 #

MATRA-CMT-RT005 ..... 23 p3697 N84-33429 #
MATRA-CMT-RT101/016 ..... 23 p3839 N84-34354 #

MATRA-144-TM-TC-03-002 ..... 23 p3699 N84-33448 #

MBB-BB-524-82-OE 05 p0645 N84-14240
MBB-BB-526-82-OE 05 p0645 N84-14241
MBB-BB-530-82-OE 02 p0202 N84-11315
MBB-BB-536-82-OE 02 p0207 N84-11350
MBB-BB-539-83-OE 05 p0687 N84-14517
MBB-BB-543-83-OE ..... 03 p0386 N84-12514 #
MBB-BB-549-83-O 16 p2561 N84-26433
MBB-BB-549/83-O ..... 07 p0977 N84-16330 #

MBB-FE-122/S/PUB/102 ..... 16 p2562 N84-26435
MBB-FE-214/S/PUB/107 ..... 16 p2562 N84-26434
MBB-FE-294/S/PUB/110 ..... 19 p3035 N84-29253 #
MBB-FE-325/S/PUB/118 ..... 16 p2562 N84-26436

MBB-R3700/292 ..... 12 p1837 N84-21974 #

MBB-UA-664-82-OE 05 p0698 N84-14584
MBB-UA-671-82-OE 05 p0760 N84-14988
MBB-UA-684-83-O 16 p2564 N84-26449
MBB-UA-686-82-OE 05 p0746 N84-14901
MBB-UA-688-82-OE 02 p0275 N84-11797
MBB-UA-693-83-O 16 p2564 N84-26448
MBB-UA-767-83-O ..... 14 p2203 N84-24226 #
MBB-UA-768-83-O ..... 14 p2143 N84-23850 #
MBB-UA-770-83-O 16 p2563 N84-26446
MBB-UA-772-83-O ..... 14 p2135 N84-23794 #
MBB-UA-776-83-O 16 p2564 N84-26447

MBB-UD-376-OE 05 p0687 N84-14518

MBB-UD-383-83-O 16 p2583 N84-26441
MBB-UD-384-83-O 16 p2582 N84-26440
MBB-UD-395-83-O ..... 14 p2105 N84-23627 #

MBB-UR-558-84 ..... 17 p2617 N84-26747 #
MBB-UR-561-82-VOL-2 ..... 23 p3702 N84-33464 #
MBB-UR-572/82-VOL-1 ..... 24 p3867 N84-34505 #
MBB-UR-580-82-OE 05 p0642 N84-14227
MBB-UR-583-82-OE 02 p0251 N84-11640
MBB-UR-584-82-OE 02 p0185 N84-11200
MBB-UR-602-82-O 16 p2564 N84-26452
MBB-UR-608-83-O-VOL-1 ..... 09 p1324 N84-18648 #
MBB-UR-617-83-O 16 p2583 N84-26445
MBB-UR-620-83-O ..... 14 p2247 N84-24495 #
MBB-UR-629-83-O 16 p2561 N84-26432
MBB-UR-631-83-O ..... 16 p2564 N84-26454 #
MBB-UR-641-83-O 16 p2583 N84-26443
MBB-UR-645-83-O 16 p2563 N84-26442
MBB-UR-646-83-O 16 p2563 N84-26444
MBB-UR-652-83-O ..... 16 p2481 N84-25910 #
MBB-UR-654-83-O ..... 16 p2455 N84-25741 #
MBB-UR-670-83-O ..... 16 p2567 N84-26469 #

MBB-URV-131(82) ..... 09 p1263 N84-18246 #

MBB-UT-07-82-OE 05 p0629 N84-14134
MBB-UT-18-82-OE 02 p0207 N84-11351
MBB-UT-21-83-O 16 p2564 N84-26450
MBB-UT-22-82-OE 05 p0632 N84-14156
MBB-UT-22-83-O 16 p2562 N84-26437
MBB-UT-23-82-OE 05 p0625 N84-14109
MBB-UT-24-83-O ..... 16 p2433 N84-25608 #

MBB-Z-13-83-O 16 p2564 N84-26451

MBL-1983-3 ..... 12 p1866 N84-22159 #
MBL-1983-11 ..... 12 p1866 N84-22160 #

MC-BW-178/83 ..... 07 p1067 N84-16931 #
MC-BW-179/83 ..... 13 p2036 N84-23211 #
MC-BW-180/83 ..... 13 p2037 N84-23216 #
MC-BW-181/83 ..... 07 p1058 N84-16851 #
MC-BW-182/83 ..... 13 p2034 N84-23192 #
MC-BW-183/83 ..... 13 p2037 N84-23217 #
MC-BW-184/83 ..... 07 p1067 N84-16932 #
MC-BW-185/83 ..... 13 p2034 N84-23193* #
MC-BW-186/83 ..... 13 p2038 N84-23220 #
MC-BW-187/83 ..... 07 p1066 N84-16923 #
MC-BW-188/83 ..... 07 p1068 N84-16934
MC-BW-189/93 ..... 07 p1058 N84-16853
MC-BW-190/83 ..... 17 p2761 N84-27536 #
MC-BW-191/83 ..... 17 p2761 N84-27532 #
MC-BW-192/83 ..... 17 p2761 N84-27537 #
MC-BW-193/83 ..... 17 p2761 N84-27533 #
MC-BW-194/83 ..... 17 p2761 N84-27534 #

MC-IW-226/83 ..... 07 p1053 N84-16818 #
MC-IW-227/83 ..... 07 p1000 N84-16484 #
MC-IW-228/83 ..... 07 p1053 N84-16819 #
MC-IW-229/83 ..... 13 p2034 N84-23190 #
MC-IW-230/83-PT-2 ..... 13 p2034 N84-23191 #
MC-IW-231/83 ..... 07 p1066 N84-16916 #
MC-IW-232/83 ..... 07 p1066 N84-16917 #
MC-IW-233/83 ..... 14 p2215 N84-24305 #
MC-IW-234/83 ..... 07 p1053 N84-16820 #
MC-IW-235/83 ..... 07 p1066 N84-16918 #
MC-IW-236/83 ..... 07 p1056 N84-16841 #
MC-IW-237/83 ..... 07 p1066 N84-16919 #
MC-IW-238/83 ..... 13 p2035 N84-23199 #
MC-IW-239/83 ..... 13 p2035 N84-23200 #
MC-IW-240/83 ..... 13 p2029 N84-23160 #
MC-IW-241/83 ..... 13 p2037 N84-23219 #
MC-IW-242/83 ..... 13 p2035 N84-23201 #
MC-IW-243/83 ..... 13 p2035 N84-23202 #
MC-IW-244/83 ..... 13 p2035 N84-23203 #
MC-IW-245/83 ..... 13 p2030 N84-23161 #
MC-IW-246/83 ..... 17 p2750 N84-27455 #
MC-IW-247/83 ..... 17 p2772 N84-27601 #
MC-IW-248/83 ..... 17 p2754 N84-27484 #

MC-NW-152/83 ..... 07 p1065 N84-16913 #
MC-NW-153/83 ..... 14 p2215 N84-24303 #
MC-NW-154/83 ..... 07 p1065 N84-16914 #
MC-NW-155/83 ..... 07 p1065 N84-16915 #
MC-NW-156/83 ..... 14 p2215 N84-24304 #
MC-NW-157/83 ..... 13 p2034 N84-23195 #
MC-NW-158/83 ..... 07 p1066 N84-16920 #
MC-NW-159/83 ..... 07 p1066 N84-16921 #
MC-NW-160/83 ..... 07 p1066 N84-16922 #

MC-SW-93/83 ..... 07 p1064 N84-16904 #
MC-SW-94/83 ..... 07 p1064 N84-16905 #
MC-SW-95/83 ..... 07 p1067 N84-16929 #
MC-SW-96/83 ..... 19 p3094 N84-29650 #
MC-SW-97/83 ..... 19 p3094 N84-29651 #

MC-TW-241/83 ..... 07 p1064 N84-16906 #
MC-TW-242/83 ..... 07 p1065 N84-16907 #
MC-TW-243/83 ..... 07 p1067 N84-16930 #
MC-TW-244/83 ..... 07 p1065 N84-16908 #
MC-TW-245/83 ..... 13 p2035 N84-23204 #
MC-TW-246/83 ..... 13 p2035 N84-23205 #
MC-TW-247/83 ..... 13 p2037 N84-23214 #
MC-TW-248/83 ..... 13 p2038 N84-23223 #
MC-TW-249/83 ..... 19 p3091 N84-29631 #

MC-ZW-192/83 ..... 13 p2034 N84-23194 #
MC-ZW-193/83 ..... 13 p2038 N84-23221 #
MC-ZW-194/83 ..... 14 p2215 N84-24302 #
MC-ZW-195/83 ..... 07 p1065 N84-16909 #
MC-ZW-196/83 ..... 21 p3476 N84-32029 #
MC-ZW-197/83 ..... 07 p1065 N84-16910 #
MC-ZW-198/83 ..... 07 p1065 N84-16911 #
MC-ZW-199/83 ..... 07 p1065 N84-16912 #
MC-ZW-200/83 ..... 19 p3095 N84-29658 #
MC-ZW-201/83 ..... 21 p3476 N84-32030 #
MC-ZW-202/83 ..... 21 p3476 N84-32031 #
MC-ZW-203/83 ..... 19 p3092 N84-29639 #

MCA-USA04 ..... 11 p1648 N84-20765 #

MCR-81-630 ..... 08 p1114 N84-17248* #
MCR-83-553-VOL-1 ..... 19 p3077 N84-29525 #
MCR-83-553-VOL-2 ..... 19 p3078 N84-29526 #
MCR-83-607 ..... 21 p3460 N84-31944* #
MCR-83-607 ..... 22 p3633 N84-33022* #
MCR-83-624 ..... 07 p0985 N84-16381* #
MCR-83-640 ..... 01 p0028 N84-10174* #
MCR-83-643 ..... 02 p0244 N84-11595* #
MCR-83-645 ..... 08 p1180 N84-17686* #
MCR-83-655 ..... 10 p1459 N84-19526 #
MCR-84-502 ..... 08 p1115 N84-17249* #
MCR-84-1866 ..... 21 p3351 N84-31258* #
MCR-84-2140 ..... 21 p3346 N84-31225* #

MDC-G9300 ..... 14 p2114 N84-23670* #
MDC-G9941 ..... 09 p1271 N84-18306 #

MDC-H0145 ..... 18 p2803 N84-27792* #
MDC-H0160A ..... 09 p1267 N84-18271* #
MDC-H0532A ..... 18 p2803 N84-27788* #
MDC-H0533 ..... 18 p2804 N84-27794* #
MDC-H0534 ..... 18 p2803 N84-27791* #
MDC-H0537 ..... 18 p2804 N84-27793* #
MDC-H0538 ..... 18 p2803 N84-27789* #
MDC-H0541 ..... 18 p2803 N84-27790* #

MDC-IR0285 ..... 19 p2961 N84-28767* #

MDC-J4576-REV-C ..... 05 p0628 N84-14131 #

MDC-Q0791 ..... 05 p0654 N84-14299 #
MDC-Q0798 ..... 04 p0506 N84-13318 #
MDC-Q1203 ..... 06 p0850 N84-15540 #
MDC-Q1208 ..... 16 p2556 N84-26396 #
MDC-Q1214 ..... 23 p3746 N84-33750 #

MDC-9744 ..... 14 p2115 N84-23671* #

ME-RT-82006 ..... 11 p1608 N84-20524* #
ME-RT-83007 ..... 15 p2263 N84-24592 #

ME-TSPC-TR-83-04 ..... 05 p0632 N84-14151 #

ME-121(83)ONR-414-2 ..... 01 p0079 N84-10513 #

MEAH-24 ..... 07 p1005 N84-16519 #
MEAH-25 ..... 07 p1005 N84-16520 #
MEAH-26 ..... 07 p1005 N84-16521 #

MEASUREMENT/SER-84-2 ..... 19 p3068 N84-29462 #
MEASUREMENT/SER-84-3 ..... 22 p3646 N84-33116 #

MEG/2302 ..... 04 p0538 N84-13535 #

MEMO/M-460 ..... 06 p0862 N84-15618 #

MERADCOM-2375 ..... 04 p0617 N84-14072 #
MERADCOM-2380 ..... 04 p0509 N84-13335 #
MERADCOM-2381 ..... 06 p0812 N84-15286 #
MERADCOM-2383 ..... 05 p0658 N84-14325 #
MERADCOM-2387 ..... 08 p1216 N84-17933 #
MERADCOM-2389 ..... 15 p2343 N84-25066 #

MER0216-FM-8055-5 ..... 07 p0960 N84-16222 #

MF-101 ..... 09 p1391 N84-19084 #

MGB-8027-001-FR ..... 08 p1142 N84-17426 #

MI-TEL-83-015-APP ..... 12 p1862 N84-22132 #

MIL-STD-847B ..... 19 p3116 N84-29799 #

MIM-3099 ..... 08 p1162 N84-17567 #

MIMEO SER-1527 ..... 06 p0901 N84-15847 #

MIMEO-SER-1526 ..... 06 p0904 N84-15867 #
MIMEO-SER-1528 ..... 06 p0904 N84-15868 #

MIPR-Z70099-2-06128 ..... 01 p0108 N84-10702 #

MIS-STD-847A ..... 19 p3116 N84-29799 #

MISC-804 ..... 13 p1933 N84-22574 #

MIT-EL-83-015 ..... 12 p1862 N84-22131 #
MIT-EL-83-015-ES ..... 12 p1862 N84-22133 #
MIT-EL-84-002 ..... 20 p3239 N84-30563 #
MIT-EL-84-009 ..... 24 p3889 N84-34627 #

MIT-NE-259 ..... 12 p1862 N84-22131 #
MIT-NE-259-ES ..... 12 p1862 N84-22133 #

MIT-RR-R82-2 ..... 06 p0857 N84-15586 #

MIT-R83-8 ..... 07 p1023 N84-16636* #

MIT-290 ..... 07 p1023 N84-16636* #

MIT/LCS/PR-19 ..... 22 p3638 N84-33064 #

MIT/LCS/TM-232 ..... 04 p0588 N84-13889 #
MIT/LCS/TM-236 ..... 04 p0525 N84-13450 #
MIT/LCS/TM-237 ..... 04 p0579 N84-13820 #
MIT/LCS/TM-241 ..... 07 p1052 N84-16813 #
MIT/LCS/TM-242 ..... 06 p0898 N84-15827 #
MIT/LCS/TM-243 ..... 05 p0727 N84-14776 #
MIT/LCS/TM-254 ..... 13 p2030 N84-23164 #
MIT/LCS/TM-255 ..... 15 p2330 N84-24988 #
MIT/LCS/TM-257 ..... 15 p2398 N84-25388 #
MIT/LCS/TM-258 ..... 17 p2758 N84-27508 #
MIT/LCS/TM-262 ..... 22 p3586 N84-32713 #
MIT/LCS/TM-303 ..... 17 p2752 N84-27469 #

MIT/LCS/TR-262 ..... 04 p0580 N84-13823 #
MIT/LCS/TR-265 ..... 04 p0589 N84-13891 #
MIT/LCS/TR-267 ..... 04 p0589 N84-13892 #
MIT/LCS/TR-297 ..... 15 p2392 N84-25358 #
MIT/LCS/TR-299 ..... 05 p0727 N84-14775 #
MIT/LCS/TR-300 ..... 05 p0718 N84-14708 #
MIT/LCS/TR-302 ..... 09 p1365 N84-18915 #
MIT/LCS/TR-304 ..... 09 p1369 N84-18938 #
MIT/LCS/TR-305 ..... 09 p1378 N84-19003 #
MIT/LCS/TR-307 ..... 09 p1369 N84-18939 #
MIT/LCS/TR-314 ..... 19 p3078 N84-29529 #
MIT/LCS/TR-315 ..... 22 p3640 N84-33077 #

MITSG-83-10-REV ..... 11 p1692 N84-21037 #
MITSG-83-13 ..... 08 p1196 N84-17801 #
MITSG-83-14 ..... 21 p3433 N84-31780 #

MITT-28 ..... 12 p1827 N84-21914 #
MITT-35 ..... 12 p1814 N84-21826
MITT-37 ..... 18 p2867 N84-28200 #
MITT-38 ..... 18 p2891 N84-28352 #
MITT-169 ..... 17 p2727 N84-27355 #

MIX/A-3188 ..... 13 p2018 N84-23081 #

MLM-MU-84-62-0001 ..... 12 p1824 N84-21892 #

MLM-3081(OP) ..... 05 p0660 N84-14341 #
MLM-3085 ..... 03 p0419 N84-12734 #
MLM-3089 ..... 16 p2470 N84-25827 #
MLM-3093(OP) ..... 10 p1457 N84-19515 #
MLM-3103 ..... 07 p0972 N84-16300 #
MLM-3105(OP) ..... 04 p0541 N84-13559 #
MLM-3106(OP) ..... 04 p0492 N84-13231 #
MLM-3108 ..... 14 p2220 N84-24321 #
MLM-3109-OP ..... 09 p1290 N84-18422 #
MLM-3110(OP) ..... 08 p1140 N84-17412 #
MLM-3112(OP) ..... 06 p0802 N84-15227 #
MLM-3115(OP) ..... 09 p1286 N84-18395 #
MLM-3117-OP ..... 08 p1140 N84-17413 #
MLM-3118(OP) ..... 07 p0971 N84-16291 #
MLM-3130 ..... 11 p1676 N84-20938 #
MLM-3134(OP) ..... 22 p3612 N84-32886 #
MLM-3135 ..... 15 p2407 N84-25447 #
MLM-3136 ..... 19 p3000 N84-29014 #
MLM-3137 ..... 19 p3002 N84-29024 #
MLM-3141 ..... 23 p3725 N84-33603 #
MLM-3160 ..... 23 p3755 N84-33801 #

MLR-1259 ..... 23 p3824 N84-34252 #
MLR-1339A ..... 05 p0676 N84-14442 #

MM-4665-83-4 ..... 05 p0645 N84-14242 #
MM-4867-84-4 ..... 18 p2853 N84-28115 #

MML-TR-83-34C ..... 09 p1288 N84-18412 #

MMS-1523 ..... 03 p0427 N84-12799 #

MMS/AT/ES-84/01 ..... 17 p2738 N84-27391 #
MMS/AT/ES-84/02 ..... 17 p2738 N84-27392 #
MMS/AT/ES-84/03 ..... 17 p2738 N84-27393 #
MMS/AT/ES-84/04 ..... 16 p2534 N84-26269 #
MMS/AT/ES-84/10-VOL-1 ..... 20 p3252 N84-30639 #
MMS/AT/ES-84/11-VOL-2 ..... 20 p3252 N84-30640 #
MMS/AT/ES-84/12-VOL-3 ..... 20 p3252 N84-30641 #
MMS/AT/ES-84/13 ..... 21 p3451 N84-31899 #

MP-SL-83-12 ..... 04 p0555 N84-13654 #

MPA-82-01 ..... 09 p1334 N84-18709 #
MPA-82-02 ..... 09 p1334 N84-18710* #
MPA-83-03 ..... 18 p2815 N84-27872 #

MPAE-L-66-84-10 ..... 20 p3316 N84-31059 #

MPE-PREPRINT-21 ..... 13 p2091 N84-23547

MPE-38 ..... 03 p0461 N84-13035
MPE-39 ..... 08 p1109 N84-17209
MPE-179 ..... 10 p1597 N84-20469 #
MPE-180 ..... 10 p1579 N84-20346 #
MPE-181 ..... 15 p2423 N84-25557 #

MPI-PAE/EXP.E1.125 ..... 19 p3028 N84-29205 #

MPIS-MITT-76 ..... 16 p2487 N84-25949 #
MPIS-MITT-77 ..... 15 p2332 N84-25003 #

MPIS-1/1983 ..... 10 p1577 N84-20334 #
MPIS-1/1984 ..... 23 p3823 N84-34248 #
MPIS-2/1983 ..... 05 p0652 N84-14285 #
MPIS-2/1984 ..... 23 p3824 N84-34249 #
MPIS-3/1983 ..... 07 p1004 N84-16510 #
MPIS-3/1984 ..... 20 p3297 N84-30936 #
MPIS-4/1983 ..... 13 p1958 N84-22730 #
MPIS-4/1984 ..... 24 p3881 N84-34588 #
MPIS-5/1983 ..... 13 p2006 N84-23015 #
MPIS-5/1984 ..... 23 p3715 N84-33552 #
MPIS-6/1983 ..... 12 p1766 N84-21520 #
MPIS-6/1984 ..... 20 p3151 N84-30010 #
MPIS-7/1983 ..... 13 p1958 N84-22731 #
MPIS-8/1983 ..... 13 p2041 N84-23244 #
MPIS-9/1983 ..... 13 p2041 N84-23245 #
MPIS-11/1982 ..... 02 p0177 N84-11159 #
MPIS-12/1983 ..... 18 p2930 N84-28582 #
MPIS-14/1983 ..... 17 p2668 N84-27016 #
MPIS-16/1983 ..... 18 p2837 N84-28009 #
MPIS-17/1983 ..... 20 p3151 N84-30008 #
MPIS-18/1983 ..... 20 p3297 N84-30935 #
MPIS-19/1983 ..... 19 p3026 N84-29189 #
MPIS-116/1983 ..... 13 p2040 N84-23239 #
MPIS-117/1983 ..... 23 p3821 N84-34234 #

MPL-U-42/83 ..... 06 p0885 N84-15753 #
MPL-U-51/83 ..... 06 p0909 N84-15902 #

MPR-3 ..... 12 p1777 N84-21593* #
MPR-3 ..... 12 p1777 N84-21595* #
MPR-6 ..... 22 p3597 N84-32780* #
MPR-7 ..... 21 p3352 N84-31266* #
MPR-7 ..... 22 p3597 N84-32781* #
MPR-8 ..... 21 p3404 N84-31594* #
MPR-9 ..... 22 p3622 N84-32949* #
MPR-10 ..... 21 p3405 N84-31596* #
MPR-12 ..... 19 p3020 N84-29147* #
MPR-13 ..... 19 p3021 N84-29156* #
MPR-19 ..... 21 p3398 N84-31552* #

MQAD-808 ..... 03 p0351 N84-12283 #

MR-179 ..... 24 p3950 N84-35008 #

MRC-DA-1116 ..... 05 p0649 N84-14268 #
MRC-DA-1120 ..... 09 p1288 N84-18410 #

MRC-R-687 ..... 01 p0149 N84-10979 #
MRC-R-744 ..... 12 p1807 N84-21781 #

MRC-SD-R-98 ..... 03 p0360 N84-12339 #
MRC-SD-R-103 ..... 02 p0249 N84-11628 #
MRC-SD-R-112 ..... 21 p3353 N84-31268 #

MRC-TSR-2505 ..... 01 p0078 N84-10506 #
MRC-TSR-2506 ..... 01 p0129 N84-10840 #
MRC-TSR-2510 ..... 01 p0128 N84-10839 #
MRC-TSR-2513 ..... 01 p0130 N84-10851 #
MRC-TSR-2514 ..... 01 p0131 N84-10855 #

MRC-TSR-2516 ..... 01 p0130 N84-10848 #
MRC-TSR-2518 ..... 01 p0130 N84-10852 #
MRC-TSR-2522 ..... 01 p0130 N84-10849 #
MRC-TSR-2523 ..... 01 p0130 N84-10854 #
MRC-TSR-2529 ..... 01 p0132 N84-10863 #
MRC-TSR-2530 ..... 01 p0131 N84-10861 #
MRC-TSR-2531 ..... 01 p0132 N84-10862 #
MRC-TSR-2532 ..... 01 p0130 N84-10853 #
MRC-TSR-2533 ..... 01 p0131 N84-10858 #
MRC-TSR-2534 ..... 05 p0736 N84-14836 #
MRC-TSR-2535 ..... 05 p0650 N84-14273 #
MRC-TSR-2537 ..... 05 p0650 N84-14275 #
MRC-TSR-2538 ..... 05 p0681 N84-14478 #
MRC-TSR-2539 ..... 05 p0740 N84-14862 #
MRC-TSR-2540 ..... 05 p0655 N84-14304 #
MRC-TSR-2541 ..... 05 p0736 N84-14834 #
MRC-TSR-2542 ..... 05 p0740 N84-14863 #
MRC-TSR-2543 ..... 05 p0737 N84-14838 #
MRC-TSR-2544 ..... 05 p0760 N84-14987 #
MRC-TSR-2545 ..... 05 p0738 N84-14845 #
MRC-TSR-2546 ..... 05 p0737 N84-14839 #
MRC-TSR-2547 ..... 05 p0681 N84-14476 #
MRC-TSR-2548 ..... 05 p0681 N84-14473 #
MRC-TSR-2549 ..... 05 p0740 N84-14864 #
MRC-TSR-2550 ..... 05 p0737 N84-14841 #
MRC-TSR-2552 ..... 05 p0738 N84-14846 #
MRC-TSR-2554 ..... 05 p0741 N84-14865 #
MRC-TSR-2555 ..... 05 p0736 N84-14837 #
MRC-TSR-2556 ..... 05 p0737 N84-14840 #
MRC-TSR-2557 ..... 05 p0738 N84-14844 #
MRC-TSR-2558 ..... 05 p0735 N84-14829 #
MRC-TSR-2559 ..... 05 p0736 N84-14835 #
MRC-TSR-2560 ..... 05 p0737 N84-14842 #
MRC-TSR-2561 ..... 07 p1002 N84-16498 #
MRC-TSR-2562 ..... 07 p1053 N84-16815 #
MRC-TSR-2563 ..... 07 p1064 N84-16899 #
MRC-TSR-2564 ..... 07 p1062 N84-16889 #
MRC-TSR-2565 ..... 07 p1063 N84-16891 #
MRC-TSR-2566 ..... 07 p1061 N84-16882 #
MRC-TSR-2567 ..... 07 p1061 N84-16883 #
MRC-TSR-2568 ..... 07 p1063 N84-16892 #
MRC-TSR-2569 ..... 07 p1062 N84-16888 #
MRC-TSR-2570 ..... 07 p1062 N84-16890 #
MRC-TSR-2571 ..... 07 p1055 N84-16832 #
MRC-TSR-2572 ..... 07 p1063 N84-16898 #
MRC-TSR-2573 ..... 07 p0948 N84-16152 #
MRC-TSR-2574 ..... 07 p1062 N84-16887 #
MRC-TSR-2575 ..... 07 p1002 N84-16499 #
MRC-TSR-2576 ..... 07 p1063 N84-16893 #
MRC-TSR-2577 ..... 07 p1063 N84-16897 #
MRC-TSR-2578 ..... 07 p1002 N84-16500 #
MRC-TSR-2579 ..... 07 p1063 N84-16896 #
MRC-TSR-2580 ..... 07 p1062 N84-16886 #
MRC-TSR-2581 ..... 09 p1387 N84-19060 #
MRC-TSR-2582 ..... 09 p1373 N84-18967 #
MRC-TSR-2583 ..... 09 p1373 N84-18965 #
MRC-TSR-2584 ..... 09 p1374 N84-18969 #
MRC-TSR-2585 ..... 09 p1373 N84-18964 #
MRC-TSR-2586 ..... 09 p1373 N84-18966 #
MRC-TSR-2587 ..... 09 p1331 N84-18689 #
MRC-TSR-2588 ..... 09 p1386 N84-19054 #
MRC-TSR-2589 ..... 09 p1375 N84-18980 #
MRC-TSR-2590 ..... 09 p1374 N84-18972 #
MRC-TSR-2591 ..... 09 p1395 N84-19107 #
MRC-TSR-2592 ..... 09 p1381 N84-19020 #
MRC-TSR-2593 ..... 09 p1373 N84-18968 #
MRC-TSR-2594 ..... 09 p1374 N84-18976 #
MRC-TSR-2595 ..... 09 p1394 N84-19106 #
MRC-TSR-2596 ..... 09 p1371 N84-18954 #
MRC-TSR-2597 ..... 09 p1374 N84-18977 #
MRC-TSR-2598 ..... 09 p1374 N84-18970 #
MRC-TSR-2599 ..... 09 p1375 N84-18981 #
MRC-TSR-2600 ..... 10 p1574 N84-20317 #
MRC-TSR-2601 ..... 09 p1374 N84-18975 #
MRC-TSR-2602 ..... 09 p1314 N84-18586 #
MRC-TSR-2603 ..... 11 p1714 N84-21180 #
MRC-TSR-2604 ..... 11 p1714 N84-21179* #
MRC-TSR-2605 ..... 11 p1647 N84-20770 #
MRC-TSR-2606 ..... 12 p1913 N84-22462 #
MRC-TSR-2607 ..... 11 p1715 N84-21185 #
MRC-TSR-2608 ..... 11 p1717 N84-21203 #
MRC-TSR-2609 ..... 12 p1893 N84-22329 #
MRC-TSR-2610 ..... 11 p1715 N84-21187 #
MRC-TSR-2611 ..... 11 p1715 N84-21188 #
MRC-TSR-2612 ..... 11 p1715 N84-21182 #
MRC-TSR-2613 ..... 18 p2924 N84-28545 #
MRC-TSR-2614 ..... 11 p1715 N84-21184 #
MRC-TSR-2615 ..... 11 p1716 N84-21189 #
MRC-TSR-2616 ..... 12 p1896 N84-22348 #
MRC-TSR-2617 ..... 12 p1893 N84-22332 #
MRC-TSR-2618 ..... 11 p1715 N84-21181 #
MRC-TSR-2619 ..... 11 p1716 N84-21190 #
MRC-TSR-2620 ..... 11 p1715 N84-21183 #
MRC-TSR-2621 ..... 11 p1718 N84-21209 #
MRC-TSR-2622 ..... 12 p1815 N84-21834 #
MRC-TSR-2623 ..... 12 p1893 N84-22331 #
MRC-TSR-2624 ..... 14 p2214 N84-24296 #
MRC-TSR-2625 ..... 14 p2218 N84-24311 #
MRC-TSR-2626 ..... 14 p2213 N84-24292 #
MRC-TSR-2627 ..... 14 p2130 N84-23767 #
MRC-TSR-2628 ..... 14 p2213 N84-24289 #
MRC-TSR-2629 ..... 14 p2218 N84-24312 #
MRC-TSR-2630 ..... 14 p2219 N84-24315 #
MRC-TSR-2631 ..... 14 p2145 N84-23858 #
MRC-TSR-2632 ..... 14 p2213 N84-24290 #
MRC-TSR-2633 ..... 14 p2212 N84-24282 #
MRC-TSR-2634 ..... 14 p2145 N84-23855 #
MRC-TSR-2635 ..... 14 p2212 N84-24285 #
MRC-TSR-2636 ..... 14 p2213 N84-24287 #
MRC-TSR-2637 ..... 14 p2213 N84-24294 #
MRC-TSR-2638 ..... 14 p2214 N84-24295 #
MRC-TSR-2639 ..... 14 p2218 N84-24309 #
MRC-TSR-2640 ..... 14 p2213 N84-24288 #
MRC-TSR-2641 ..... 14 p2212 N84-24284 #
MRC-TSR-2642 ..... 14 p2213 N84-24293 #
MRC-TSR-2643 ..... 14 p2146 N84-23859 #
MRC-TSR-2644 ..... 14 p2205 N84-24235 #
MRC-TSR-2645 ..... 14 p2218 N84-24308 #
MRC-TSR-2646 ..... 14 p2212 N84-24283 #
MRC-TSR-2647 ..... 14 p2212 N84-24286 #
MRC-TSR-2649 ..... 19 p3023 N84-29174 #
MRC-TSR-2650 ..... 19 p3086 N84-29590 #
MRC-TSR-2651 ..... 19 p3086 N84-29587 #
MRC-TSR-2652 ..... 19 p3085 N84-29584 #
MRC-TSR-2653 ..... 19 p3085 N84-29581 #
MRC-TSR-2654 ..... 21 p3471 N84-31999 #
MRC-TSR-2655 ..... 19 p3086 N84-29588 #
MRC-TSR-2656 ..... 19 p3085 N84-29585 #
MRC-TSR-2659 ..... 19 p3033 N84-29237 #
MRC-TSR-2661 ..... 19 p3086 N84-29586 #
MRC-TSR-2662 ..... 19 p3086 N84-29589 #
MRC-TSR-2663 ..... 19 p3024 N84-29175 #
MRC-TSR-2664 ..... 21 p3471 N84-32000 #
MRC-TSR-2665 ..... 19 p3087 N84-29594 #
MRC-TSR-2666 ..... 19 p3024 N84-29178 #
MRC-TSR-2667 ..... 19 p3087 N84-29595 #
MRC-TSR-2668 ..... 19 p3087 N84-29596 #
MRC-TSR-2669 ..... 19 p3087 N84-29597 #
MRC-TSR-2670 ..... 19 p3087 N84-29598 #
MRC-TSR-2671 ..... 19 p3087 N84-29599 #
MRC-TSR-2672 ..... 19 p2988 N84-28934 #
MRC-TSR-2673 ..... 19 p3087 N84-29593 #
MRC-TSR-2674 ..... 19 p3093 N84-29642 #
MRC-TSR-2677 ..... 19 p3085 N84-29583 #
MRC-TSR-2678 ..... 19 p3085 N84-29582 #
MRC-TSR-2679 ..... 19 p3024 N84-29176 #
MRC-TSR-2680 ..... 21 p3473 N84-32010 #
MRC-TSR-2681 ..... 21 p3399 N84-31565 #
MRC-TSR-2682 ..... 21 p3472 N84-32003 #
MRC-TSR-2683 ..... 21 p3471 N84-32001 #
MRC-TSR-2684 ..... 21 p3472 N84-32002 #
MRC-TSR-2685 ..... 21 p3515 N84-32268 #
MRC-TSR-2686 ..... 21 p3472 N84-32006 #
MRC-TSR-2688 ..... 21 p3473 N84-32011 #
MRC-TSR-2689 ..... 21 p3400 N84-31568 #
MRC-TSR-2690 ..... 21 p3400 N84-31566 #
MRC-TSR-2691 ..... 21 p3472 N84-32007 #
MRC-TSR-2692 ..... 21 p3473 N84-32008 #
MRC-TSR-2693 ..... 21 p3498 N84-32171 #
MRC-TSR-2694 ..... 21 p3473 N84-32014 #
MRC-TSR-2695 ..... 21 p3472 N84-32005 #
MRC-TSR-2696 ..... 21 p3472 N84-32004 #
MRC-TSR-2697 ..... 21 p3400 N84-31569 #
MRC-TSR-2699 ..... 21 p3473 N84-32009 #
MRC-TSR-2703 ..... 24 p3952 N84-35028 #
MRC-TSR-2705 ..... 24 p3953 N84-35031 #
MRC-TSR-2707 ..... 24 p3952 N84-35025 #
MRC-TSR-2710 ..... 24 p3952 N84-35027 #
MRC-TSR-2711 ..... 24 p3953 N84-35032 #
MRC-TSR-2712 ..... 24 p3901 N84-34704 #
MRC-TSR-2715 ..... 24 p3952 N84-35030 #
MRC-TSR-2717 ..... 24 p3952 N84-35026 #

MRC-WDC-R-073 ..... 08 p1228 N84-18028 #

MRDC41067.6FR ..... 08 p1234 N84-18069 #
MRDC41070.25FR ..... 15 p2328 N84-24979 #
MRDC41070.25FR-APP-A ..... 15 p2328 N84-24980 #
MRDC41070.25FR-APP-B ..... 15 p2328 N84-24981 #
MRDC41078.9FR ..... 06 p0922 N84-15995 #
MRDC41083.29FTR ..... 08 p1210 N84-17890 #
MRDC41086.3FTR ..... 15 p2413 N84-25484 #
MRDC41099.1FR ..... 09 p1395 N84-19111 #
MRDC41125.1FR ..... 23 p3741 N84-33716 #
MRDC41131.3SA ..... 04 p0526 N84-13457 #
MRDC41131.6SA ..... 15 p2329 N84-24986 #

MRDP-6297-1 ..... 03 p0356 N84-12317 #

MRI-2007-E ..... 01 p0116 N84-10753 #
MRI-7014-2 ..... 09 p1290 N84-18419* #

MRL-R-657-PT-1 ..... 16 p2470 N84-25828 #
MRL-R-822 ..... 17 p2628 N84-26812 #
MRL-R-831 ..... 22 p3600 N84-32803 #
MRL-R-875 ..... 05 p0743 N84-14879 #
MRL-R-877 ..... 05 p0721 N84-14728 #
MRL-R-882 ..... 23 p3726 N84-33609 #
MRL-R-884 ..... 17 p2622 N84-26784 #
MRL-R-885 ..... 08 p1123 N84-17301 #
MRL-R-886 ..... 05 p0692 N84-14544 #
MRL-R-886 ..... 11 p1668 N84-20864 #
MRL-R-887 ..... 12 p1796 N84-21717 #
MRL-R-893 ..... 05 p0715 N84-14682 #
MRL-R-894 ..... 08 p1150 N84-17482 #
MRL-R-896 ..... 08 p1139 N84-17406 #
MRL-R-901 ..... 05 p0661 N84-14344 #
MRL-R-902 ..... 08 p1197 N84-17803 #
MRL-R-903 ..... 16 p2495 N84-26005 #
MRL-R-905 ..... 08 p1155 N84-17524 #
MRL-R-907 ..... 16 p2486 N84-25942 #
MRL-R-910 ..... 16 p2555 N84-26391 #
MRL-R-911 ..... 08 p1136 N84-17387 #
MRL-R-912 ..... 11 p1692 N84-21039 #
MRL-R-914 ..... 11 p1692 N84-21036 #
MRL-R-915 ..... 12 p1796 N84-21718 #
MRL-R-916 ..... 24 p3890 N84-34629 #
MRL-R-917 ..... 16 p2483 N84-25924 #
MRL-R-918 ..... 16 p2473 N84-25853 #
MRL-R-921 ..... 24 p3914 N84-34779 #
MRL-R-922 ..... 16 p2497 N84-26020 #
MRL-R-924 ..... 20 p3201 N84-30332 #
MRL-R-925 ..... 16 p2543 N84-26321 #
MRL-R-928 ..... 24 p3965 N84-35104 #

MRL-TN-459 ..... 05 p0662 N84-14353 #
MRL-TN-460-PT-2 ..... 06 p0853 N84-15558 #
MRL-TN-469 ..... 05 p0693 N84-14552 #
MRL-TN-473 ..... 05 p0683 N84-14493 #
MRL-TN-474 ..... 05 p0646 N84-14250 #
MRL-TN-475 ..... 05 p0646 N84-14249 #
MRL-TN-476 ..... 08 p1161 N84-17557 #
MRL-TN-478 ..... 11 p1639 N84-20712 #

MRLE-151 ..... 17 p2624 N84-26794 #

MSC-TFR-1314/0209 ..... 02 p0187 N84-11218* #

MSD-1 ..... 07 p1054 N84-16824* #

MSHA/IR-1131 ..... 03 p0401 N84-12621 #

MSHD-RD-83-675 ..... 08 p1172 N84-17636 #

MSNW-C.11.198.01 ..... 23 p3755 N84-33799 #
MSNW-C.11.218.01 ..... 17 p2663 N84-26991 #

MSNW-13.213.01.70-VOL-1 ..... 02 p0180 N84-11174 #
MSNW-13.213.01.70-VOL-2 ..... 02 p0180 N84-11173 #

MSR-TSR-2648 ..... 19 p3084 N84-29577 #
MSR-TSR-2657 ..... 19 p3023 N84-29172 #
MSR-TSR-2658 ..... 19 p3084 N84-29576 #
MSR-TSR-2660 ..... 19 p3084 N84-29574 #
MSR-TSR-2675 ..... 19 p3093 N84-29641 #
MSR-TSR-2676 ..... 19 p3084 N84-29575 #

MSRR-492 ..... 03 p0425 N84-12784 #
MSRR-494 ..... 06 p0902 N84-15852 #
MSRR-496 ..... 10 p1591 N84-20427 #
MSRR-498 ..... 11 p1706 N84-21121 #
MSRR-499 ..... 11 p1706 N84-21120 #
MSRR-500 ..... 20 p3313 N84-31036 #

MSS-URV-121(81) ..... 07 p0965 N84-16254 #

MSSA02-SYS-R003 ..... 04 p0563 N84-13710 #
MSSA04-SYS-R001 ..... 21 p3444 N84-31850 #

MSSU-EIRS-EE-82-2-PT-1 ..... 19 p3012 N84-29094* #
MSSU-EIRS-EE-82-2-PT-3 ..... 19 p3012 N84-29090* #
MSSU-EIRS-EE-83-6 ..... 22 p3643 N84-33097* #

MSSU-TFD-84-1 ..... 20 p3183 N84-30227 #

MSU-ENGR-84-004 ..... 19 p3029 N84-29212 #

MTB-157 ..... 01 p0086 N84-10559 #

MTI-83ASE334SA4 ..... 08 p1242 N84-18117* #
MTI-84ASE356DR3 ..... 22 p3677 N84-33307* #
MTI-84TR35 ..... 21 p3405 N84-31599* #

MTP-4-1-003 ..... 19 p3001 N84-29022 #
MTP-6-2-050 ..... 08 p1144 N84-17446 #
MTP-6-2-065-REV ..... 08 p1145 N84-17449 #
MTP-8-2-064 ..... 07 p1008 N84-16535 #
MTP-8-2-172 ..... 15 p2337 N84-25029 #

MTPN-8 ..... 21 p3366 N84-31350* #
MTPN-9 ..... 23 p3717 N84-33565* #

MTPR-7 ..... 20 p3152 N84-30013* #

MTR-82W238 ..... 02 p0176 N84-11158 #
MTR-83W68 ..... 16 p2542 N84-26318* #
MTR-83W123 ..... 16 p2542 N84-26317* #
MTR-83W203 ..... 07 p0952 N84-16177* #
MTR-83W203 ..... 20 p3268 N84-30737* #
MTR-83W241 ..... 13 p1929 N84-22548 #
MTR-83W00091 ..... 19 p2961 N84-28768 #
MTR-83W00172-VOL-1 ..... 22 p3540 N84-32412 #
MTR-83W00172-VOL-2 ..... 22 p3540 N84-32413 #
MTR-8338-VOL-1-REV-1 ..... 09 p1398 N84-19128 #
MTR-8409 ..... 06 p0823 N84-15368 #
MTR-8563 ..... 13 p1982 N84-22868 #
MTR-8677 ..... 12 p1805 N84-21769 #
MTR-8827 ..... 08 p1145 N84-17448 #
MTR-8828 ..... 23 p3834 N84-34324 #
MTR-8866 ..... 08 p1210 N84-17891 #
MTR-8907 ..... 24 p3902 N84-34711 #
MTR-8915 ..... 10 p1482 N84-19683 #
MTR-8941 ..... 09 p1368 N84-18929 #
MTR-9031 ..... 10 p1564 N84-20247 #
MTR-9055 ..... 20 p3174 N84-30154 #
MTR-9129 ..... 18 p2943 N84-28664 #
MTR-9165 ..... 15 p2392 N84-25354 #
MTR-9167 ..... 17 p2753 N84-27477 #
MTR-9226 ..... 18 p2932 N84-28593 #

MW-NN-31/83 ..... 07 p1056 N84-16840 #

MW-83-2 ..... 08 p1144 N84-17443 #
MW-84-1 ..... 18 p2833 N84-27987 #

MWRRC-132 ..... 01 p0110 N84-10714 #

N-2037-RC ..... 15 p2417 N84-25509 #
N-3931-001(772) ..... 02 p0198 N84-11289 #

NA-76-562 ..... 08 p1103 N84-17173* #
NA-76-563 ..... 08 p1103 N84-17174* #
NA-79-492-2 ..... 01 p0013 N84-10080 #
NA-81-649 ..... 18 p2813 N84-27860* #

NAC-TR-2329 ..... 05 p0630 N84-14141 #

NAC/AR-82-01 ..... 07 p1074 N84-16976 #

NADC-80157-60 ..... 23 p3695 N84-33419 #
NADC-81067-60 ..... 12 p1821 N84-21870 #
NADC-81104-60 ..... 03 p0330 N84-12156 #
NADC-81108-60 ..... 08 p1137 N84-17395 #
NADC-81118-60-VOL-1 ..... 07 p0951 N84-16170 #
NADC-81118-60-VOL-2 ..... 07 p0951 N84-16171 #
NADC-81118-60-VOL-3 ..... 07 p0951 N84-16172 #
NADC-81118-60-VOL-4 ..... 07 p0951 N84-16173 #
NADC-81189-60 ..... 06 p0784 N84-15137 #
NADC-81190-60 ..... 06 p0786 N84-15148 #
NADC-81294-60 ..... 15 p2297 N84-24784 #
NADC-82025-60 ..... 20 p3128 N84-29868 #
NADC-82132-60 ..... 22 p3538 N84-32396 #
NADC-82211-60 ..... 04 p0491 N84-13225 #
NADC-82227-60 ..... 23 p3711 N84-33527 #
NADC-83008-60 ..... 15 p2385 N84-25303 #
NADC-83014-60 ..... 15 p2385 N84-25302 #
NADC-83030-60 ..... 08 p1212 N84-17906 #
NADC-83048-60 ..... 05 p0631 N84-14149 #
NADC-83049-60 ..... 06 p0890 N84-15784 #
NADC-83050-60 ..... 06 p0890 N84-15782 #
NADC-83051-60 ..... 06 p0890 N84-15783 #
NADC-83053-60 ..... 08 p1122 N84-17294 #
NADC-83055-60 ..... 10 p1553 N84-20178 #
NADC-83058-60 ..... 01 p0032 N84-10201 #
NADC-83059-60 ..... 05 p0658 N84-14328 #
NADC-83062-40 ..... 06 p0823 N84-15364 #
NADC-83066-60 ..... 10 p1466 N84-19576 #
NADC-83074-60 ..... 14 p2242 N84-24463 #
NADC-83076-60 ..... 09 p1364 N84-18908 #
NADC-83087-60 ..... 05 p0715 N84-14687 #
NADC-83096-60 ..... 08 p1099 N84-17147 #
NADC-83098-60 ..... 16 p2445 N84-25682 #
NADC-83111-60 ..... 13 p1928 N84-22545 #
NADC-83115-60 ..... 08 p1200 N84-17823 #
NADC-83116-60 ..... 19 p2968 N84-28810 #
NADC-83122-30 ..... 11 p1732 N84-21295 #
NADC-83126-60-VOL-1 ..... 09 p1331 N84-18691 #
NADC-83126-60-VOL-2 ..... 09 p1331 N84-18692 #
NADC-83127-60 ..... 08 p1131 N84-17356 #
NADC-83133-60 ..... 13 p2001 N84-22985 #
NADC-83134-60 ..... 09 p1276 N84-18328 #
NADC-83138-60 ..... 14 p2103 N84-23615 #
NADC-83146-60 ..... 13 p1964 N84-22761 #
NADC-84002-60 ..... 12 p1764 N84-21504 #
NADC-84009-60 ..... 14 p2103 N84-23614 #

NADC-84017-60 ..... 18 p2810 N84-27836 #
NADC-84021-60 ..... 13 p2021 N84-23101 #
NADC-84039-60 ..... 19 p2994 N84-28972 #

NAE-AN-4 ..... 18 p2810 N84-27837 #
NAE-AN-9 ..... 01 p0004 N84-10029 #
NAE-AN-10-PT-2 ..... 09 p1276 N84-18331 #
NAE-AN-11-PT-3 ..... 09 p1276 N84-18332 #
NAE-AN-12-PT-4 ..... 09 p1276 N84-18333 #
NAE-AN-13 ..... 06 p0784 N84-15136 #
NAE-AN-14 ..... 06 p0844 N84-15503 #
NAE-AN-15 ..... 05 p0629 N84-14135 #
NAE-AN-16 ..... 09 p1342 N84-18767 #
NAE-AN-17 ..... 11 p1668 N84-20881 #
NAE-AN-18 ..... 11 p1668 N84-20882 #
NAE-AN-19 ..... 20 p3126 N84-29855 #
NAE-AN-20 ..... 12 p1792 N84-21689 #

NAE-LR-613 ..... 01 p0004 N84-10028 #
NAE-LR-614-PT-2 ..... 23 p3690 N84-33389 #

NAEC-ENG-91-7999-REV-B ..... 24 p3898 N84-34682 #

NAEC-92-171 ..... 02 p0229 N84-11503 #
NAEC-92-184 ..... 24 p3897 N84-34678 #

NAL-TR-680 ..... 24 p3852 N84-34432* #
NAL-TR-745 ..... 15 p2331 N84-24997 #
NAL-TR-752 ..... 04 p0479 N84-13154 #
NAL-TR-753 ..... 04 p0548 N84-13611 #
NAL-TR-754 ..... 04 p0548 N84-13612 #
NAL-TR-755 ..... 09 p1416 N84-19265 #
NAL-TR-756 ..... 04 p0489 N84-13213 #
NAL-TR-757 ..... 09 p1313 N84-18579 #
NAL-TR-758 ..... 04 p0586 N84-13871 #
NAL-TR-759 ..... 09 p1330 N84-18684 #
NAL-TR-760 ..... 04 p0586 N84-13872 #
NAL-TR-761 ..... 09 p1394 N84-19101 #
NAL-TR-762 ..... 09 p1372 N84-18962 #
NAL-TR-763 ..... 04 p0532 N84-13495 #
NAL-TR-764 ..... 09 p1274 N84-18319 #
NAL-TR-765 ..... 04 p0487 N84-13200 #
NAL-TR-766 ..... 09 p1274 N84-18318 #
NAL-TR-767 ..... 16 p2459 N84-25763 #
NAL-TR-768 ..... 09 p1312 N84-18574 #
NAL-TR-769 ..... 09 p1274 N84-18317 #
NAL-TR-770 ..... 09 p1386 N84-19053 #
NAL-TR-771 ..... 09 p1274 N84-18316 #
NAL-TR-772 ..... 09 p1313 N84-18580 #
NAL-TR-773 ..... 09 p1275 N84-18327 #
NAL-TR-774T ..... 09 p1259 N84-18215 #
NAL-TR-775 ..... 09 p1254 N84-18184 #
NAL-TR-776T ..... 09 p1257 N84-18208 #
NAL-TR-777 ..... 09 p1274 N84-18320 #
NAL-TR-778T ..... 09 p1266 N84-18264 #
NAL-TR-779 ..... 09 p1272 N84-18309 #
NAL-TR-780 ..... 09 p1258 N84-18213 #
NAL-TR-781-PT-1 ..... 09 p1251 N84-18168 #
NAL-TR-782 ..... 09 p1251 N84-18167 #
NAL-TR-783 ..... 09 p1251 N84-18166 #
NAL-TR-784 ..... 16 p2495 N84-26009 #
NAL-TR-785-PT-2 ..... 16 p2439 N84-25649 #
NAL-TR-786 ..... 16 p2498 N84-26028 #
NAL-TR-787 ..... 16 p2538 N84-26292 #
NAL-TR-788 ..... 16 p2440 N84-25650 #
NAL-TR-789 ..... 16 p2501 N84-26055 #
NAL-TR-790 ..... 16 p2440 N84-25651 #
NAL-TR-791 ..... 12 p1818 N84-21850 #
NAL-TR-792T ..... 16 p2470 N84-25832 #
NAL-TR-793 ..... 12 p1777 N84-21599 #
NAL-TR-794T ..... 16 p2548 N84-26354 #

NAMRL-MONOGRAPH-30 ..... 03 p0415 N84-12715 #

NAMRL-1290 ..... 03 p0415 N84-12717 #
NAMRL-1291 ..... 03 p0413 N84-12706 #
NAMRL-1292 ..... 03 p0415 N84-12716 #
NAMRL-1293 ..... 03 p0413 N84-12704 #
NAMRL-1294 ..... 10 p1547 N84-20143 #
NAMRL-1295 ..... 03 p0413 N84-12703 #
NAMRL-1297 ..... 04 p0484 N84-13183 #
NAMRL-1298 ..... 03 p0413 N84-12705 #
NAMRL-1299 ..... 10 p1552 N84-20170 #
NAMRL-1300 ..... 09 p1302 N84-18514 #
NAMRL-1301 ..... 10 p1547 N84-20144 #
NAMRL-1304 ..... 13 p2025 N84-23126 #
NAMRL-1305 ..... 14 p2185 N84-24095 #

NAPC-PE-87-C-VOL-1 ..... 10 p1469 N84-19597 #
NAPC-PE-87-C-VOL-2 ..... 10 p1469 N84-19598 #

NAS 1.12/6:222(06) ..... 12 p1825 N84-21896* #
NAS 1.12/7:7011(252) 06 p0886 N84-15763*
NAS 1.15:2532 ..... 18 p2784 N84-27667* #
NAS 1.15:58255 ..... 11 p1693 N84-21040* #
NAS 1.15:58256 ..... 07 p0953 N84-16182* #
NAS 1.15:58257 ..... 05 p0758 N84-14973* #
NAS 1.15:58258 ..... 16 p2544 N84-26328* #
NAS 1.15:58259 ..... 18 p2899 N84-28392* #
NAS 1.15:58260 ..... 21 p3430 N84-31782* #
NAS 1.15:58261 ..... 20 p3259 N84-30684* #
NAS 1.15:58262 ..... 21 p3457 N84-31935* #
NAS 1.15:76815 ..... 07 p0946 N84-16136* #
NAS 1.15:76947 ..... 06 p0786 N84-15143* #
NAS 1.15:76953 ..... 11 p1731 N84-21291* #
NAS 1.15:76962 ..... 10 p1427 N84-19335* #
NAS 1.15:76963 ..... 11 p1620 N84-20602* #
NAS 1.15:76973 ..... 09 p1249 N84-18153* #
NAS 1.15:76974 ..... 06 p0805 N84-15248* #
NAS 1.15:76976 ..... 23 p3804 N84-34117* #
NAS 1.15:76977 ..... 07 p0974 N84-16310* #
NAS 1.15:76999 ..... 09 p1277 N84-18339* #
NAS 1.15:77021 ..... 07 p1012 N84-16563* #
NAS 1.15:77025 ..... 06 p0781 N84-15118* #
NAS 1.15:77026 ..... 08 p1123 N84-17302* #
NAS 1.15:77027 ..... 10 p1464 N84-19563* #
NAS 1.15:77029 ..... 09 p1251 N84-18169* #
NAS 1.15:77043 ..... 07 p1025 N84-16639* #
NAS 1.15:77050 ..... 07 p0959 N84-16219* #
NAS 1.15:77052 ..... 24 p3860 N84-34462* #
NAS 1.15:77055 ..... 07 p0969 N84-16279* #
NAS 1.15:77058 ..... 07 p1033 N84-16702* #
NAS 1.15:77061 ..... 07 p0950 N84-16164* #
NAS 1.15:77065 ..... 01 p0049 N84-10315* #
NAS 1.15:77067 ..... 07 p0978 N84-16336* #
NAS 1.15:77076 ..... 07 p0974 N84-16309* #
NAS 1.15:77079 ..... 14 p2101 N84-23607* #
NAS 1.15:77085 ..... 06 p0852 N84-15552* #
NAS 1.15:77086 ..... 07 p0967 N84-16263* #
NAS 1.15:77088 ..... 08 p1227 N84-18016* #
NAS 1.15:77090 ..... 08 p1197 N84-17804* #
NAS 1.15:77092 ..... 06 p0809 N84-15270* #
NAS 1.15:77094 ..... 09 p1286 N84-18398* #
NAS 1.15:77095 ..... 07 p1042 N84-16755* #
NAS 1.15:77096 ..... 10 p1545 N84-20127* #
NAS 1.15:77097 ..... 07 p0960 N84-16220* #
NAS 1.15:77100 ..... 07 p1033 N84-16700* #
NAS 1.15:77102 ..... 17 p2612 N84-26718* #
NAS 1.15:77105 ..... 07 p1033 N84-16701* #
NAS 1.15:77109 ..... 01 p0069 N84-10452* #
NAS 1.15:77121 ..... 16 p2535 N84-26276* #
NAS 1.15:77239 ..... 11 p1632 N84-20671* #
NAS 1.15:77240 ..... 11 p1641 N84-20729* #
NAS 1.15:77242 ..... 01 p0057 N84-10370* #
NAS 1.15:77244 ..... 07 p1042 N84-16756* #
NAS 1.15:77277 ..... 10 p1434 N84-19378* #
NAS 1.15:77285 ..... 06 p0920 N84-15981* #
NAS 1.15:77293 ..... 06 p0852 N84-15553* #
NAS 1.15:77294 ..... 07 p0960 N84-16226* #
NAS 1.15:77295 ..... 07 p1089 N84-17082* #
NAS 1.15:77296 ..... 11 p1731 N84-21292* #
NAS 1.15:77297 ..... 07 p1091 N84-17094* #
NAS 1.15:77298 ..... 09 p1416 N84-19264* #
NAS 1.15:77299 ..... 07 p0961 N84-16228* #
NAS 1.15:77314 ..... 10 p1556 N84-20196* #
NAS 1.15:77325 ..... 07 p0946 N84-16137* #
NAS 1.15:77326 ..... 09 p1258 N84-18214* #
NAS 1.15:77327 ..... 07 p0950 N84-16166* #
NAS 1.15:77328 ..... 07 p1091 N84-17095* #
NAS 1.15:77329 ..... 05 p0702 N84-14608* #
NAS 1.15:77330 ..... 05 p0643 N84-14228* #
NAS 1.15:77334 ..... 05 p0764 N84-15014* #
NAS 1.15:77335 ..... 09 p1343 N84-18773* #
NAS 1.15:77337 ..... 06 p0877 N84-15709* #
NAS 1.15:77338 ..... 06 p0891 N84-15789* #
NAS 1.15:77341 ..... 05 p0626 N84-14119* #
NAS 1.15:77342 ..... 09 p1343 N84-18774* #
NAS 1.15:77343 ..... 10 p1533 N84-20043* #
NAS 1.15:77344 ..... 05 p0702 N84-14609* #
NAS 1.15:77347 ..... 06 p0782 N84-15124* #
NAS 1.15:77349 ..... 06 p0846 N84-15519* #
NAS 1.15:77351 ..... 07 p0965 N84-16253* #
NAS 1.15:77352 ..... 10 p1471 N84-19607* #
NAS 1.15:77355 ..... 10 p1528 N84-20012* #
NAS 1.15:77356 ..... 09 p1277 N84-18338* #
NAS 1.15:77357 ..... 02 p0293 N84-11922* #
NAS 1.15:77358 ..... 07 p1001 N84-16491* #
NAS 1.15:77359 ..... 07 p1051 N84-16806* #
NAS 1.15:77363 ..... 14 p2121 N84-23711* #
NAS 1.15:77364 ..... 07 p0969 N84-16277* #
NAS 1.15:77366 ..... 09 p1291 N84-18430* #
NAS 1.15:77370 ..... 06 p0782 N84-15119* #
NAS 1.15:77373 ..... 06 p0782 N84-15122* #
NAS 1.15:77374 ..... 06 p0920 N84-15980* #
NAS 1.15:77375 ..... 09 p1275 N84-18324* #
NAS 1.15:77378 ..... 11 p1636 N84-20696* #
NAS 1.15:77379 ..... 07 p1083 N84-17046* #
NAS 1.15:77380 ..... 10 p1432 N84-19359* #
NAS 1.15:77381 ..... 07 p1001 N84-16490* #
NAS 1.15:77383 ..... 10 p1465 N84-19569* #
NAS 1.15:77385 ..... 11 p1636 N84-20696* #
NAS 1.15:77386 ..... 14 p2222 N84-24330* #

NAS 1.15:77387 ..... 10 p1587 N84-20402* #
NAS 1.15:77388 ..... 10 p1578 N84-20340* #
NAS 1.15:77389 ..... 10 p1587 N84-20403* #
NAS 1.15:77394 ..... 14 p2119 N84-23700* #
NAS 1.15:77395 ..... 10 p1450 N84-19471* #
NAS 1.15:77396 ..... 10 p1450 N84-19470* #
NAS 1.15:77397 ..... 23 p3723 N84-33593* #
NAS 1.15:77398 ..... 10 p1451 N84-19476* #
NAS 1.15:77402 ..... 10 p1453 N84-19491* #
NAS 1.15:77404 ..... 14 p2224 N84-24346* #
NAS 1.15:77407 ..... 09 p1251 N84-18170* #
NAS 1.15:77408 ..... 19 p3022 N84-29160* #
NAS 1.15:77409 ..... 16 p2504 N84-26068* #
NAS 1.15:77410 ..... 11 p1601 N84-20489* #
NAS 1.15:77412 ..... 14 p2175 N84-24031* #
NAS 1.15:77414 ..... 23 p3713 N84-33535* #
NAS 1.15:77419 ..... 23 p3890 N84-33384* #
NAS 1.15:77420 ..... 24 p3888 N84-34618* #
NAS 1.15:77421 ..... 14 p2129 N84-23765* #
NAS 1.15:77424 ..... 19 p2985 N84-26916* #
NAS 1.15:77425 ..... 16 p2470 N84-25829* #
NAS 1.15:77428 ..... 10 p1454 N84-19494* #
NAS 1.15:77430 ..... 19 p3002 N84-29025* #
NAS 1.15:77431 ..... 19 p3021 N84-29154* #
NAS 1.15:77432 ..... 14 p2121 N84-23712* #
NAS 1.15:77433 ..... 14 p2119 N84-23699* #
NAS 1.15:77435 ..... 11 p1636 N84-20697* #
NAS 1.15:77436 ..... 19 p3110 N84-29758* #
NAS 1.15:77438 ..... 19 p2997 N84-28991* #
NAS 1.15:77445 ..... 14 p2221 N84-24325* #
NAS 1.15:77446 ..... 16 p2548 N84-26351* #
NAS 1.15:77447 ..... 19 p2987 N84-28927* #
NAS 1.15:77448 ..... 24 p3899 N84-34693* #
NAS 1.15:77449 ..... 19 p3035 N84-29250* #
NAS 1.15:77453 ..... 19 p3050 N84-29356* #
NAS 1.15:77454 ..... 19 p2997 N84-28992* #
NAS 1.15:77455 ..... 10 p1490 N84-19742* #
NAS 1.15:77456 ..... 10 p1485 N84-19706* #
NAS 1.15:77457 ..... 10 p1451 N84-19477* #
NAS 1.15:77458 ..... 10 p1453 N84-19492* #
NAS 1.15:77459 ..... 10 p1451 N84-19478* #
NAS 1.15:77460 ..... 19 p2968 N84-28808* #
NAS 1.15:77461 ..... 23 p3750 N84-33772* #
NAS 1.15:77462 ..... 20 p3183 N84-30222* #
NAS 1.15:77466 ..... 16 p2560 N84-26421* #
NAS 1.15:77470 ..... 14 p2250 N84-24514* #
NAS 1.15:77474 ..... 23 p3826 N84-34266* #
NAS 1.15:77476 ..... 23 p3700 N84-33451* #
NAS 1.15:77479 ..... 19 p2965 N84-28793* #
NAS 1.15:77481 ..... 24 p3857 N84-34451* #
NAS 1.15:77482 ..... 19 p2969 N84-28814* #
NAS 1.15:77487 ..... 23 p3713 N84-33533* #
NAS 1.15:77497 ..... 23 p3746 N84-33748* #
NAS 1.15:77506 ..... 19 p3012 N84-29095* #
NAS 1.15:77507 ..... 24 p3965 N84-35106* #
NAS 1.15:77515 ..... 24 p3968 N84-35124* #
NAS 1.15:77531 ..... 07 p0973 N84-16308* #
NAS 1.15:77533 ..... 10 p1490 N84-19743* #
NAS 1.15:77534 ..... 09 p1312 N84-18576* #
NAS 1.15:77552 ..... 24 p3883 N84-34602* #
NAS 1.15:77554 ..... 14 p2114 N84-23668* #
NAS 1.15:77558 ..... 24 p3991 N84-35260* #
NAS 1.15:77578 ..... 14 p2134 N84-23786* #
NAS 1.15:77596 ..... 24 p3878 N84-34574* #
NAS 1.15:77618 ..... 24 p3910 N84-34764* #
NAS 1.15:77619 ..... 24 p3902 N84-34709* #
NAS 1.15:77620 ..... 23 p3700 N84-33454* #
NAS 1.15:77622 ..... 23 p3723 N84-33594* #
NAS 1.15:77719 ..... 19 p3031 N84-29225* #
NAS 1.15:77722 ..... 24 p3852 N84-34432* #
NAS 1.15:77729 ..... 24 p3866 N84-34502* #
NAS 1.15:77730 ..... 24 p3900 N84-34694* #
NAS 1.15:77745 ..... 24 p3854 N84-34438* #
NAS 1.15:77749 ..... 23 p3694 N84-33411* #
NAS 1.15:77755 ..... 23 p3694 N84-33413* #
NAS 1.15:77757 ..... 23 p3689 N84-33380* #
NAS 1.15:77758 ..... 23 p3812 N84-34172* #
NAS 1.15:77759 ..... 24 p3961 N84-35086* #
NAS 1.15:77764 ..... 23 p3797 N84-34074* #
NAS 1.15:77767 ..... 23 p3689 N84-33381* #
NAS 1.15:80258 ..... 17 p2709 N84-27248* #
NAS 1.15:81401 ..... 23 p3790 N84-34038* #
NAS 1.15:81733 ..... 12 p1917 N84-22488* #
NAS 1.15:81909-SUPPL ..... 17 p2610 N84-26708* #
NAS 1.15:81922 ..... 18 p2786 N84-27684* #
NAS 1.15:82535 ..... 01 p0018 N84-10112* #
NAS 1.15:82546 ..... 01 p0029 N84-10183* #
NAS 1.15:82547 ..... 05 p0759 N84-14974* #
NAS 1.15:82548 ..... 03 p0338 N84-12196* #
NAS 1.15:82549 ..... 08 p1113 N84-17239* #
NAS 1.15:82550 ..... 06 p0904 N84-15666* #
NAS 1.15:82551 ..... 02 p0243 N84-11593* #
NAS 1.15:82552 ..... 02 p0229 N84-11499* #
NAS 1.15:82553 ..... 03 p0352 N84-12288* #
NAS 1.15:82554 ..... 04 p0488 N84-13205* #
NAS 1.15:82556 ..... 13 p1989 N84-22912* #
NAS 1.15:82557 ..... 05 p0662 N84-14352* #
NAS 1.15:82558 ..... 05 p0653 N84-14290* #
NAS 1.15:82559 ..... 04 p0596 N84-13933* #
NAS 1.15:82560 ..... 05 p0708 N84-14636* #
NAS 1.15:82561 ..... 04 p0570 N84-13756* #
NAS 1.15:82562 ..... 06 p0935 N84-16075* #
NAS 1.15:82563 ..... 06 p0809 N84-15269* #
NAS 1.15:82564 ..... 08 p1245 N84-18141* #
NAS 1.15:82565 ..... 09 p1306 N84-18535* #
NAS 1.15:82566 ..... 08 p1190 N84-17756* #
NAS 1.15:82567 ..... 10 p1450 N84-19469* #
NAS 1.15:82568 ..... 10 p1497 N84-19786* #
NAS 1.15:82569 ..... 11 p1633 N84-20675* #
NAS 1.15:82570 ..... 10 p1578 N84-20341* #
NAS 1.15:82571 ..... 12 p1779 N84-21607* #
NAS 1.15:82572 ..... 14 p2179 N84-24047* #
NAS 1.15:82574 ..... 13 p2016 N84-23073* #
NAS 1.15:82575 ..... 13 p2016 N84-23071* #
NAS 1.15:82577 ..... 15 p2371 N84-25220* #
NAS 1.15:82578 ..... 16 p2455 N84-25745* #
NAS 1.15:82579 ..... 15 p2295 N84-24773* #
NAS 1.15:82580 ..... 15 p2366 N84-25194* #
NAS 1.15:82581 ..... 16 p2462 N84-25778* #
NAS 1.15:82582 ..... 17 p2775 N84-27617* #
NAS 1.15:82583 ..... 18 p2852 N84-28109* #
NAS 1.15:82584 ..... 18 p2852 N84-28111* #
NAS 1.15:82585 ..... 17 p2615 N84-26740* #
NAS 1.15:82586 ..... 18 p2951 N84-28710* #
NAS 1.15:82587 ..... 19 p3034 N84-29246* #
NAS 1.15:82588 ..... 19 p3057 N84-29396* #
NAS 1.15:82742 ..... 09 p1348 N84-18806* #
NAS 1.15:83061 ..... 01 p0141 N84-10923* #
NAS 1.15:83092 ..... 05 p0759 N84-14975* #
NAS 1.15:83111 ..... 19 p2957 N84-28739* #
NAS 1.15:83180 ..... 18 p2920 N84-28517* #
NAS 1.15:83218 ..... 18 p2788 N84-27696* #
NAS 1.15:83253 ..... 18 p2920 N84-28518* #
NAS 1.15:83304 ..... 19 p3073 N84-29500* #
NAS 1.15:83381 ..... 02 p0208 N84-11358* #
NAS 1.15:83403 ..... 01 p0102 N84-10665* #
NAS 1.15:83415 ..... 02 p0208 N84-11360* #
NAS 1.15:83446 ..... 07 p0954 N84-16185* #
NAS 1.15:83449 ..... 01 p0048 N84-10310* #
NAS 1.15:83460 ..... 04 p0557 N84-13670* #
NAS 1.15:83463 ..... 02 p0287 N84-11885* #
NAS 1.15:83467 ..... 05 p0742 N84-14874* #
NAS 1.15:83468 ..... 05 p0761 N84-14989* #
NAS 1.15:83469 ..... 02 p0241 N84-11579* #
NAS 1.15:83478 ..... 02 p0231 N84-11512* #
NAS 1.15:83479 ..... 08 p1131 N84-17355* #
NAS 1.15:83481 ..... 02 p0279 N84-11831* #
NAS 1.15:83483 ..... 01 p0102 N84-10664* #
NAS 1.15:83486 ..... 05 p0652 N84-14288* #
NAS 1.15:83488 ..... 07 p1001 N84-16492* #
NAS 1.15:83489 ..... 02 p0186 N84-11206* #
NAS 1.15:83490 ..... 05 p0631 N84-14145* #
NAS 1.15:83492 ..... 03 p0352 N84-12287* #
NAS 1.15:83495 ..... 04 p0548 N84-13610* #
NAS 1.15:83497 ..... 10 p1529 N84-20016* #
NAS 1.15:83502 ..... 02 p0287 N84-11883* #
NAS 1.15:83503 ..... 04 p0594 N84-13922* #
NAS 1.15:83504 ..... 10 p1529 N84-20017* #
NAS 1.15:83506 ..... 06 p0805 N84-15249* #
NAS 1.15:83507 ..... 05 p0691 N84-14541* #
NAS 1.15:83508 ..... 03 p0333 N84-12166* #
NAS 1.15:83509 ..... 05 p0692 N84-14542* #
NAS 1.15:83510 ..... 03 p0418 N84-12730* #
NAS 1.15:83512 ..... 02 p0199 N84-11295* #
NAS 1.15:83513 ..... 02 p0222 N84-11456* #
NAS 1.15:83514 ..... 05 p0752 N84-14932* #
NAS 1.15:83515 ..... 07 p1069 N84-16946* #
NAS 1.15:83516 ..... 01 p0062 N84-10405* #
NAS 1.15:83518 ..... 04 p0517 N84-13399* #
NAS 1.15:83519 ..... 05 p0626 N84-14120* #
NAS 1.15:83520 ..... 10 p1575 N84-20320* #
NAS 1.15:83522 ..... 10 p1476 N84-19640* #
NAS 1.15:83523 ..... 02 p0229 N84-11500* #
NAS 1.15:83524 ..... 02 p0228 N84-11498* #
NAS 1.15:83525 ..... 04 p0595 N84-13924* #
NAS 1.15:83526 ..... 07 p1001 N84-16493* #
NAS 1.15:83528 ..... 04 p0498 N84-13264* #
NAS 1.15:83529 ..... 02 p0199 N84-11296* #
NAS 1.15:83530 ..... 09 p1272 N84-18310* #
NAS 1.15:83531 ..... 04 p0517 N84-13400* #
NAS 1.15:83532 ..... 05 p0699 N84-14586* #
NAS 1.15:83533 ..... 02 p0193 N84-11254* #
NAS 1.15:83534 ..... 05 p0627 N84-14121* #
NAS 1.15:83535 ..... 06 p0805 N84-15246* #
NAS 1.15:83536 ..... 05 p0688 N84-14519* #
NAS 1.15:83537 ..... 07 p1001 N84-16494* #
NAS 1.15:83538 ..... 04 p0485 N84-13188* #
NAS 1.15:83539 ..... 07 p1016 N84-16589* #
NAS 1.15:83540 ..... 04 p0615 N84-14061* #
NAS 1.15:83541 ..... 05 p0631 N84-14146* #
NAS 1.15:83542 ..... 05 p0625 N84-14111* #
NAS 1.15:83543 ..... 02 p0243 N84-11594* #

NAS 1.15:83544 ..... 07 p0954 N84-16186* #
NAS 1.15:83545 ..... 04 p0578 N84-13812* #
NAS 1.15:83546 ..... 17 p2722 N84-27327* #
NAS 1.15:83547 ..... 07 p1015 N84-16587* #
NAS 1.15:83548 ..... 04 p0532 N84-13494* #
NAS 1.15:83549 ..... 07 p1015 N84-16588* #
NAS 1.15:83550 ..... 07 p1052 N84-16812* #
NAS 1.15:83551 ..... 05 p0652 N84-14289* #
NAS 1.15:83552 ..... 07 p0962 N84-16234* #
NAS 1.15:83553 ..... 04 p0477 N84-13140* #
NAS 1.15:83554 ..... 05 p0631 N84-14147* #
NAS 1.15:83555 ..... 08 p1098 N84-17143* #
NAS 1.15:83557 ..... 05 p0679 N84-14463* #
NAS 1.15:83558 ..... 04 p0485 N84-13190* #
NAS 1.15:83559 ..... 08 p1222 N84-17982* #
NAS 1.15:83560 ..... 07 p0974 N84-16311* #
NAS 1.15:83561 ..... 07 p0954 N84-16184* #
NAS 1.15:83562 ..... 11 p1601 N84-20490* #
NAS 1.15:83563 ..... 08 p1131 N84-17354* #
NAS 1.15:83564 ..... 04 p0483 N84-13173* #
NAS 1.15:83565 ..... 07 p0985 N84-16380* #
NAS 1.15:83566 ..... 08 p1130 N84-17351* #
NAS 1.15:83568 ..... 07 p0961 N84-16229* #
NAS 1.15:83569 ..... 20 p3129 N84-29870* #
NAS 1.15:83570 ..... 08 p1166 N84-17591* #
NAS 1.15:83571 ..... 07 p0947 N84-16142* #
NAS 1.15:83572 ..... 08 p1130 N84-17352* #
NAS 1.15:83574 ..... 16 p2470 N84-25831* #
NAS 1.15:83575 ..... 08 p1098 N84-17142* #
NAS 1.15:83576 ..... 07 p0946 N84-16141* #
NAS 1.15:83577 ..... 09 p1330 N84-18683* #
NAS 1.15:83578 ..... 08 p1166 N84-17592* #
NAS 1.15:83579 ..... 12 p1771 N84-21548* #
NAS 1.15:83580 ..... 11 p1632 N84-20672* #
NAS 1.15:83581 ..... 08 p1149 N84-17479* #
NAS 1.15:83582 ..... 10 p1498 N84-19787* #
NAS 1.15:83583 ..... 11 p1632 N84-20673* #
NAS 1.15:83584 ..... 10 p1485 N84-19708* #
NAS 1.15:83585 ..... 10 p1465 N84-19566* #
NAS 1.15:83586 ..... 08 p1157 N84-17533* #
NAS 1.15:83587 ..... 16 p2553 N84-26383* #
NAS 1.15:83588 ..... 08 p1098 N84-17138* #
NAS 1.15:83589 ..... 07 p0943 N84-16119* #
NAS 1.15:83590 ..... 12 p1810 N84-21803* #
NAS 1.15:83591 ..... 10 p1476 N84-19641* #
NAS 1.15:83592 ..... 10 p1502 N84-19816* #
NAS 1.15:83593 ..... 16 p2569 N84-26484* #
NAS 1.15:83594 ..... 15 p2284 N84-24712* #
NAS 1.15:83595 ..... 08 p1131 N84-17353* #
NAS 1.15:83596 ..... 10 p1465 N84-19567* #
NAS 1.15:83598 ..... 14 p2118 N84-23691* #
NAS 1.15:83599 ..... 12 p1797 N84-21719* #
NAS 1.15:83600 ..... 10 p1587 N84-20404* #
NAS 1.15:83601 ..... 11 p1625 N84-20639* #
NAS 1.15:83602 ..... 11 p1736 N84-21329* #
NAS 1.15:83603 ..... 11 p1737 N84-21330* #
NAS 1.15:83604 ..... 11 p1664 N84-20858* #
NAS 1.15:83605 ..... 10 p1566 N84-20258* #
NAS 1.15:83606 ..... 10 p1566 N84-20259* #
NAS 1.15:83608 ..... 16 p2498 N84-26029* #
NAS 1.15:83609 ..... 19 p2992 N84-28962* #
NAS 1.15:83610 ..... 12 p1789 N84-21666* #
NAS 1.15:83611 ..... 13 p1989 N84-22910* #
NAS 1.15:83612 ..... 11 p1673 N84-20916* #
NAS 1.15:83613 ..... 12 p1815 N84-21832* #
NAS 1.15:83614 ..... 13 p1989 N84-22911* #
NAS 1.15:83615 ..... 13 p1932 N84-22567* #
NAS 1.15:83616 ..... 13 p2040 N84-23235* #
NAS 1.15:83617 ..... 13 p1589 N84-22909* #
NAS 1.15:83618 ..... 13 p2008 N84-23026* #
NAS 1.15:83619 ..... 15 p2343 N84-25064* #
NAS 1.15:83620 ..... 12 p1907 N84-22421* #
NAS 1.15:83622 ..... 19 p2997 N84-28990* #
NAS 1.15:83623 ..... 17 p2622 N84-26785* #
NAS 1.15:83624 ..... 16 p2459 N84-25762* #
NAS 1.15:83625 ..... 16 p2483 N84-25926* #
NAS 1.15:83626 ..... 13 p1960 N84-22735* #
NAS 1.15:83627 ..... 16 p2438 N84-25644* #
NAS 1.15:83628 ..... 12 p1800 N84-21739* #
NAS 1.15:83629 ..... 15 p2301 N84-24808* #
NAS 1.15:83630 ..... 12 p1818 N84-21849* #
NAS 1.15:83631 ..... 13 p1954 N84-22702* #
NAS 1.15:83632 ..... 19 p2985 N84-28917* #
NAS 1.15:83633 ..... 16 p2481 N84-25908* #
NAS 1.15:83634 ..... 14 p2157 N84-23923* #
NAS 1.15:83635 ..... 13 p1926 N84-22533* #
NAS 1.15:83636 ..... 13 p1925 N84-22527* #
NAS 1.15:83637 ..... 13 p1932 N84-22565* #
NAS 1.15:83638 ..... 13 p1942 N84-22631* #
NAS 1.15:83639 ..... 13 p1932 N84-22566* #
NAS 1.15:83640 ..... 13 p1932 N84-22564* #
NAS 1.15:83641 ..... 15 p2261 N84-24581* #
NAS 1.15:83643 ..... 13 p2008 N84-23025* #
NAS 1.15:83644 ..... 14 p2118 N84-23690* #
NAS 1.15:83646 ..... 13 p1985 N84-22890* #
NAS 1.15:83647 ..... 13 p2008 N84-23024* #
NAS 1.15:83648 ..... 13 p1940 N84-22615* #
NAS 1.15:83649 ..... 12 p1921 N84-22512* #
NAS 1.15:83650 ..... 14 p2249 N84-24509* #
NAS 1.15:83651 ..... 13 p2008 N84-23022* #
NAS 1.15:83652 ..... 13 p1986 N84-22891* #
NAS 1.15:83653 ..... 13 p1955 N84-22712* #
NAS 1.15:83655 ..... 15 p2262 N84-24589* #
NAS 1.15:83656 ..... 13 p1986 N84-22892* #
NAS 1.15:83657 ..... 15 p2361 N84-25166* #
NAS 1.15:83658 ..... 15 p2335 N84-25019* #
NAS 1.15:83659 ..... 19 p2992 N84-28963* #
NAS 1.15:83660 ..... 16 p2450 N84-25712* #
NAS 1.15:83661 ..... 14 p2118 N84-23693* #
NAS 1.15:83662 ..... 18 p2828 N84-27954* #
NAS 1.15:83663 ..... 15 p2295 N84-24772* #
NAS 1.15:83664 ..... 13 p2008 N84-23023* #
NAS 1.15:83665 ..... 21 p3365 N84-31345* #
NAS 1.15:83666 ..... 15 p2331 N84-24999* #
NAS 1.15:83667 ..... 13 p2008 N84-23027* #
NAS 1.15:83668 ..... 15 p2261 N84-24583* #
NAS 1.15:83669 ..... 16 p2439 N84-25647* #
NAS 1.15:83670 ..... 16 p2470 N84-25830* #
NAS 1.15:83671 ..... 23 p3821 N84-34231* #
NAS 1.15:83672 ..... 18 p2813 N84-27858* #
NAS 1.15:83673 ..... 18 p2813 N84-27859* #
NAS 1.15:83674 ..... 18 p2808 N84-27825* #
NAS 1.15:83675 ..... 19 p3034 N84-29247* #
NAS 1.15:83676 ..... 16 p2484 N84-25793* #
NAS 1.15:83679 ..... 14 p2109 N84-23648* #
NAS 1.15:83680 ..... 19 p3049 N84-29347* #
NAS 1.15:83681 ..... 15 p2335 N84-25017* #
NAS 1.15:83682 ..... 15 p2261 N84-24584* #
NAS 1.15:83684 ..... 21 p3433 N84-31782* #
NAS 1.15:83685 ..... 22 p3542 N84-32426* #
NAS 1.15:83686 ..... 15 p2261 N84-24582* #
NAS 1.15:83687 ..... 15 p2283 N84-24708 #
NAS 1.15:83688 ..... 16 p2457 N84-25753* #
NAS 1.15:83689 ..... 15 p2261 N84-24579* #
NAS 1.15:83690 ..... 17 p2616 N84-26746* #
NAS 1.15:83691 ..... 19 p2985 N84-28918* #
NAS 1.15:83692 ..... 16 p2495 N84-26010* #
NAS 1.15:83694 ..... 16 p2460 N84-25770* #
NAS 1.15:83695 ..... 15 p2262 N84-24585* #
NAS 1.15:83696 ..... 18 p2809 N84-27832* #
NAS 1.15:83697 ..... 15 p2255 N84-24539* #
NAS 1.15:83699 ..... 19 p2965 N84-28791* #
NAS 1.15:83700 ..... 17 p2618 N84-26755* #
NAS 1.15:83701 ..... 18 p2809 N84-27831* #
NAS 1.15:83702 ..... 17 p2618 N84-26756* #
NAS 1.15:83703 ..... 15 p2331 N84-25000* #
NAS 1.15:83704 ..... 16 p2486 N84-25946* #
NAS 1.15:83706 ..... 17 p2626 N84-26803* #
NAS 1.15:83707 ..... 16 p2460 N84-25766* #
NAS 1.15:83708 ..... 16 p2450 N84-25713* #
NAS 1.15:83709 ..... 16 p2433 N84-25605* #
NAS 1.15:83710 ..... 16 p2433 N84-25607* #
NAS 1.15:83712 ..... 17 p2675 N84-27043* #
NAS 1.15:83713 ..... 17 p2675 N84-27042* #
NAS 1.15:83714 ..... 17 p2623 N84-26787* #
NAS 1.15:83715 ..... 16 p2459 N84-25764* #
NAS 1.15:83716 ..... 16 p2433 N84-25606* #
NAS 1.15:83717 ..... 18 p2813 N84-27857* #
NAS 1.15:83718 ..... 19 p2997 N84-28994* #
NAS 1.15:83719 ..... 18 p2817 N84-27887* #
NAS 1.15:83721 ..... 18 p2849 N84-28087* #
NAS 1.15:83722 ..... 19 p3034 N84-29248* #
NAS 1.15:83723 ..... 19 p3031 N84-29224* #
NAS 1.15:83724 ..... 18 p2849 N84-28088* #
NAS 1.15:83725 ..... 19 p3031 N84-29223* #
NAS 1.15:83726 ..... 20 p3195 N84-30294* #
NAS 1.15:83727 ..... 20 p3161 N84-30072* #
NAS 1.15:83728 ..... 18 p2807 N84-27824* #
NAS 1.15:83729 ..... 21 p3356 N84-31288* #
NAS 1.15:83730 ..... 19 p2965 N84-28790* #
NAS 1.15:83731 ..... 20 p3183 N84-30223* #
NAS 1.15:83732 ..... 19 p3021 N84-29157* #
NAS 1.15:83733 ..... 22 p3529 N84-32344* #
NAS 1.15:83734 ..... 20 p3183 N84-30224* #
NAS 1.15:83735 ..... 20 p3200 N84-30329* #
NAS 1.15:83736 ..... 20 p3130 N84-29878* #
NAS 1.15:83737 ..... 21 p3419 N84-31683* #
NAS 1.15:83738 ..... 21 p3365 N84-31344* #
NAS 1.15:83739 ..... 22 p3531 N84-32357* #
NAS 1.15:83740 ..... 20 p3195 N84-30293* #
NAS 1.15:83741 ..... 20 p3130 N84-29876* #
NAS 1.15:83743 ..... 21 p3390 N84-31512* #
NAS 1.15:83744 ..... 21 p3490 N84-32118* #
NAS 1.15:83745 ..... 21 p3382 N84-31460* #
NAS 1.15:83746 ..... 24 p3888 N84-34820* #
NAS 1.15:83749 ..... 20 p3173 N84-30147* #
NAS 1.15:83751 ..... 21 p3398 N84-31558* #
NAS 1.15:83753 ..... 20 p3192 N84-30273* #
NAS 1.15:83755 ..... 21 p3390 N84-31513* #
NAS 1.15:83756 ..... 21 p3419 N84-31687* #
NAS 1.15:83757 ..... 21 p3355 N84-31283* #
NAS 1.15:83758 ..... 21 p3324 N84-31091* #

NAS 1.15:83759 ..... 20 p3172 N84-30146* #
NAS 1.15:83760 ..... 21 p3491 N84-32122* #
NAS 1.15:83761 ..... 23 p3713 N84-33536* #
NAS 1.15:83762 ..... 22 p3555 N84-32508* #
NAS 1.15:83764 ..... 23 p3821 N84-34230* #
NAS 1.15:83765 ..... 23 p3694 N84-33414* #
NAS 1.15:83766 ..... 21 p3498 N84-32169* #
NAS 1.15:83768 ..... 22 p3543 N84-32427* #
NAS 1.15:83769 ..... 23 p3717 N84-33564* #
NAS 1.15:83770 ..... 21 p3354 N84-31272* #
NAS 1.15:83772 ..... 21 p3325 N84-31096* #
NAS 1.15:83773 ..... 23 p3726 N84-33608* #
NAS 1.15:83774 ..... 21 p3382 N84-31461* #
NAS 1.15:83775 ..... 22 p3575 N84-32644* #
NAS 1.15:83777 ..... 21 p3365 N84-31347* #
NAS 1.15:83778 ..... 21 p3365 N84-31348* #
NAS 1.15:83779 ..... 22 p3558 N84-32531* #
NAS 1.15:83780 ..... 22 p3530 N84-32351* #
NAS 1.15:83781 ..... 22 p3597 N84-32783* #
NAS 1.15:83782 ..... 24 p3883 N84-34603* #
NAS 1.15:83785 ..... 22 p3598 N84-32789* #
NAS 1.15:83786 ..... 23 p3711 N84-33522* #
NAS 1.15:83788 ..... 22 p3606 N84-32649* #
NAS 1.15:83789 ..... 23 p3730 N84-33642* #
NAS 1.15:83792 ..... 24 p3888 N84-34619* #
NAS 1.15:83794 ..... 24 p3911 N84-34769* #
NAS 1.15:83795 ..... 22 p3540 N84-32411* #
NAS 1.15:83799 ..... 24 p3961 N84-35085* #
NAS 1.15:83802 ..... 24 p3878 N84-34576* #
NAS 1.15:83916 ..... 17 p2721 N84-27319* #
NAS 1.15:83937 ..... 02 p0237 N84-11556* #
NAS 1.15:83958 ..... 04 p0622 N84-14103* #
NAS 1.15:83997 ..... 24 p3944 N84-34974* #
NAS 1.15:84319-PT-2 ..... 15 p2254 N84-24537* #
NAS 1.15:84325 ..... 07 p1007 N84-16530* #
NAS 1.15:84332 ..... 12 p1893 N84-22326* #
NAS 1.15:84336 ..... 02 p0181 N84-11177* #
NAS 1.15:84343 ..... 01 p0003 N84-10021* #
NAS 1.15:84350 ..... 02 p0186 N84-11212* #
NAS 1.15:84351 ..... 22 p3535 N84-32380* #
NAS 1.15:84358 ..... 02 p0176 N84-11157* #
NAS 1.15:84360 ..... 16 p2574 N84-26518* #
NAS 1.15:84368 ..... 02 p0269 N84-11760* #
NAS 1.15:84373 ..... 01 p0007 N84-10043* #
NAS 1.15:84375 ..... 01 p0076 N84-10498* #
NAS 1.15:84376 ..... 07 p0959 N84-16216* #
NAS 1.15:84377 ..... 01 p0003 N84-10019* #
NAS 1.15:84384 ..... 02 p0193 N84-11255* #
NAS 1.15:84387 ..... 02 p0180 N84-11176* #
NAS 1.15:84390 ..... 09 p1386 N84-19050* #
NAS 1.15:84391 ..... 01 p0008 N84-10049* #
NAS 1.15:84393 ..... 07 p0947 N84-16144* #
NAS 1.15:84394 ..... 17 p2606 N84-26693* #
NAS 1.15:84395 ..... 04 p0483 N84-13178* #
NAS 1.15:84396 ..... 07 p0946 N84-16138* #
NAS 1.15:84397 ..... 01 p0007 N84-10042* #
NAS 1.15:84398 ..... 01 p0007 N84-10041* #
NAS 1.15:84400 ..... 01 p0113 N84-10732* #
NAS 1.15:84401 ..... 02 p0174 N84-11142* #
NAS 1.15:84402 ..... 14 p2211 N84-24276* #
NAS 1.15:84406 ..... 04 p0604 N84-13985* #
NAS 1.15:84407 ..... 05 p0679 N84-14464* #
NAS 1.15:84408 ..... 02 p0181 N84-11178* #
NAS 1.15:84409 ..... 01 p0003 N84-10018* #
NAS 1.15:84410 ..... 09 p1312 N84-18573* #
NAS 1.15:84411 ..... 01 p0111 N84-10724* #
NAS 1.15:84421 ..... 16 p2566 N84-26467* #
NAS 1.15:84422 ..... 15 p2371 N84-25223* #
NAS 1.15:84425 ..... 16 p2481 N84-25907* #
NAS 1.15:84579 ..... 04 p0479 N84-13151* #
NAS 1.15:84593 ..... 17 p2679 N84-27065* #
NAS 1.15:84594 ..... 06 p0782 N84-15120* #
NAS 1.15:84617 ..... 06 p0794 N84-15172* #
NAS 1.15:84618 ..... 04 p0480 N84-13160* #
NAS 1.15:84653 ..... 08 p1227 N84-18018* #
NAS 1.15:84658 ..... 06 p0834 N84-15426* #
NAS 1.15:84903 ..... 05 p0630 N84-14144* #
NAS 1.15:84909 ..... 13 p1931 N84-22557* #
NAS 1.15:84910 ..... 09 p1257 N84-18203* #
NAS 1.15:84911 ..... 11 p1606 N84-20514* #
NAS 1.15:84912 ..... 12 p1769 N84-21537* #
NAS 1.15:84915 ..... 05 p0627 N84-14122* #
NAS 1.15:84916 ..... 18 p2796 N84-27743* #
NAS 1.15:84917 ..... 11 p1607 N84-20520* #
NAS 1.15:84920 ..... 06 p0791 N84-15159* #
NAS 1.15:84921 ..... 05 p0628 N84-14129* #
NAS 1.15:84922 ..... 07 p0952 N84-16176* #
NAS 1.15:84925 ..... 06 p0858 N84-15588* #
NAS 1.15:84969 ..... 04 p0566 N84-13735* #
NAS 1.15:84982 ..... 04 p0562 N84-13705* #
NAS 1.15:85012 ..... 24 p3918 N84-34807* #
NAS 1.15:85029 ..... 24 p3994 N84-35281* #
NAS 1.15:85037 ..... 24 p3989 N84-35243* #
NAS 1.15:85049 ..... 03 p0466 N84-13065* #
NAS 1.15:85053 ..... 03 p0440 N84-12889* #
NAS 1.15:85058 ..... 07 p0964 N84-16249* #
NAS 1.15:85063 ..... 13 p2072 N84-23430* #
NAS 1.15:85066 ..... 06 p0852 N84-15555* #
NAS 1.15:85069 ..... 11 p1760 N84-21488* #
NAS 1.15:85070 ..... 02 p0208 N84-11359* #
NAS 1.15:85071 ..... 22 p3681 N84-33333* #
NAS 1.15:85072 ..... 01 p0107 N84-10892* #
NAS 1.15:85074 ..... 06 p0940 N84-16108* #
NAS 1.15:85078 ..... 02 p0233 N84-11527* #
NAS 1.15:85082 ..... 02 p0253 N84-11658* #
NAS 1.15:85087 ..... 02 p0307 N84-12012* #
NAS 1.15:85092 ..... 02 p0248 N84-11624* #
NAS 1.15:85093 ..... 02 p0257 N84-11684* #
NAS 1.15:85095 ..... 01 p0165 N84-11083* #
NAS 1.15:85098 ..... 02 p0183 N84-11192* #
NAS 1.15:85100 ..... 24 p3934 N84-34905* #
NAS 1.15:85101 ..... 01 p0165 N84-11082* #
NAS 1.15:85103 ..... 24 p3987 N84-35238* #
NAS 1.15:85105 ..... 01 p0165 N84-11084* #
NAS 1.15:85106 ..... 07 p1023 N84-16633* #
NAS 1.15:85108 ..... 10 p1454 N84-19493* #
NAS 1.15:85109 ..... 03 p0407 N84-12663* #
NAS 1.15:85110 ..... 02 p0295 N84-11936* #
NAS 1.15:85111 ..... 03 p0341 N84-12216* #
NAS 1.15:85112 ..... 03 p0463 N84-13046* #
NAS 1.15:85113 ..... 06 p0917 N84-15958* #
NAS 1.15:85114 ..... 02 p0253 N84-11659* #
NAS 1.15:85115 ..... 06 p0881 N84-15731* #
NAS 1.15:85116 ..... 03 p0463 N84-13045* #
NAS 1.15:85117 ..... 03 p0407 N84-12662* #
NAS 1.15:85118 ..... 04 p0619 N84-14082* #
NAS 1.15:85119 ..... 03 p0462 N84-13044* #
NAS 1.15:85120 ..... 08 p1246 N84-18149* #
NAS 1.15:85121 ..... 07 p1092 N84-17102* #
NAS 1.15:85123 ..... 06 p0940 N84-16107* #
NAS 1.15:85124 ..... 06 p0914 N84-15941* #
NAS 1.15:85125 ..... 09 p1344 N84-18781* #
NAS 1.15:85385 ..... 18 p2953 N84-28714* #
NAS 1.15:85386 ..... 18 p2899 N84-28391* #
NAS 1.15:85388 ..... 18 p2944 N84-28668* #
NAS 1.15:85430 ..... 01 p0006 N84-10037* #
NAS 1.15:85434 ..... 03 p0463 N84-13049* #
NAS 1.15:85435 ..... 03 p0461 N84-13039* #
NAS 1.15:85436 ..... 07 p1094 N84-17112* #
NAS 1.15:85438 ..... 09 p1399 N84-19136* #
NAS 1.15:85439 ..... 08 p1218 N84-17947 #
NAS 1.15:85443 ..... 12 p1860 N84-22116* #
NAS 1.15:85444 ..... 12 p1847 N84-22043* #
NAS 1.15:85445 ..... 13 p2026 N84-23137* #
NAS 1.15:85447 ..... 16 p2582 N84-26562* #
NAS 1.15:85454 ..... 01 p0166 N84-11093* #
NAS 1.15:85455 ..... 02 p0183 N84-11187* #
NAS 1.15:85456 ..... 02 p0305 N84-12002* #
NAS 1.15:85457 ..... 02 p0305 N84-12003* #
NAS 1.15:85459 ..... 05 p0697 N84-14573* #
NAS 1.15:85468 ..... 02 p0236 N84-11548* #
NAS 1.15:85469 ..... 02 p0238 N84-11562* #
NAS 1.15:85474 ..... 01 p0002 N84-10011* #
NAS 1.15:85475 ..... 03 p0461 N84-13033* #
NAS 1.15:85476 ..... 03 p0395 N84-12576* #
NAS 1.15:85478 ..... 16 p2460 N84-25769* #
NAS 1.15:85481 ..... 04 p0552 N84-13636* #
NAS 1.15:85486 ..... 06 p0935 N84-16076* #
NAS 1.15:85487 ..... 06 p0792 N84-15164* #
NAS 1.15:85492 ..... 06 p0927 N84-16021* #
NAS 1.15:85493 ..... 06 p0927 N84-16020* #
NAS 1.15:85497 ..... 07 p0963 N84-16242* #
NAS 1.15:85498 ..... 07 p1084 N84-17047* #
NAS 1.15:85499 ..... 07 p1020 N84-16620* #
NAS 1.15:85502 ..... 19 p2978 N84-28881* #
NAS 1.15:85509 ..... 20 p3314 N84-31047* #
NAS 1.15:85510 ..... 06 p0933 N84-16060* #
NAS 1.15:85515 ..... 06 p0865 N84-15634* #
NAS 1.15:85516 ..... 06 p0865 N84-15635* #
NAS 1.15:85517 ..... 06 p0865 N84-15636* #
NAS 1.15:85518 ..... 06 p0865 N84-15637* #
NAS 1.15:85521 ..... 08 p1239 N84-18102* #
NAS 1.15:85522 ..... 08 p1102 N84-17168* #
NAS 1.15:85527 ..... 16 p2481 N84-25909* #
NAS 1.15:85528 ..... 17 p2640 N84-26887* #
NAS 1.15:85536 ..... 22 p3581 N84-32681* #
NAS 1.15:85538 ..... 22 p3684 N84-33364* #
NAS 1.15:85550 ..... 17 p2599 N84-26661* #
NAS 1.15:85554 ..... 18 p2943 N84-28661* #
NAS 1.15:85555 ..... 09 p1418 N84-19277* #
NAS 1.15:85556 ..... 10 p1435 N84-19382* #
NAS 1.15:85557 ..... 10 p1592 N84-20434* #
NAS 1.15:85558 ..... 10 p1522 N84-19962* #
NAS 1.15:85559 ..... 10 p1596 N84-20462* #
NAS 1.15:85562 ..... 10 p1521 N84-19961* #
NAS 1.15:85568 ..... 13 p2071 N84-23420* #
NAS 1.15:85569 ..... 13 p2071 N84-23421* #
NAS 1.15:85570 ..... 13 p2071 N84-23418* #
NAS 1.15:85571 ..... 13 p2070 N84-23417* #
NAS 1.15:85572 ..... 13 p2070 N84-23416* #
NAS 1.15:85573 ..... 13 p2070 N84-23415* #
NAS 1.15:85574 ..... 13 p2071 N84-23419* #

NAS 1.15:85576 ..... 12 p1917 N84-22491* #
NAS 1.15:85594 ..... 13 p1967 N84-22771* #
NAS 1.15:85596 ..... 22 p3676 N84-33305* #
NAS 1.15:85597 ..... 21 p3426 N84-31731* #
NAS 1.15:85598 ..... 21 p3428 N84-31749* #
NAS 1.15:85599 ..... 21 p3428 N84-31750* #
NAS 1.15:85600 ..... 21 p3428 N84-31751* #
NAS 1.15:85601 ..... 21 p3429 N84-31752* #
NAS 1.15:85602 ..... 21 p3429 N84-31753* #
NAS 1.15:85604 ..... 13 p2028 N84-23150* #
NAS 1.15:85605 ..... 16 p2543 N84-26323* #
NAS 1.15:85606 ..... 13 p2026 N84-23135* #
NAS 1.15:85607 ..... 13 p2026 N84-23136* #
NAS 1.15:85608 ..... 13 p2025 N84-23129*
NAS 1.15:85609 ..... 13 p2025 N84-23130*
NAS 1.15:85612 ..... 14 p2204 N84-24230* #
NAS 1.15:85613 ..... 14 p2221 N84-24326* #
NAS 1.15:85617 ..... 17 p2777 N84-27632* #
NAS 1.15:85620 ..... 21 p3429 N84-31754* #
NAS 1.15:85621 ..... 21 p3429 N84-31755* #
NAS 1.15:85622 ..... 21 p3429 N84-31756* #
NAS 1.15:85623 ..... 21 p3429 N84-31757* #
NAS 1.15:85627 ..... 13 p1937 N84-22597* #
NAS 1.15:85646 ..... 08 p1194 N84-17784* #
NAS 1.15:85655 ..... 04 p0480 N84-13161* #
NAS 1.15:85662 ..... 06 p0781 N84-15117* #
NAS 1.15:85663 ..... 02 p0173 N84-11141* #
NAS 1.15:85667 ..... 07 p0959 N84-16215* #
NAS 1.15:85668 ..... 04 p0482 N84-13172* #
NAS 1.15:85670 ..... 02 p0271 N84-11774* #
NAS 1.15:85679 ..... 01 p0094 N84-10611* #
NAS 1.15:85680 ..... 01 p0139 N84-10911* #
NAS 1.15:85681 ..... 02 p0222 N84-11457* #
NAS 1.15:85682 ..... 01 p0094 N84-10609* #
NAS 1.15:85683 ..... 01 p0094 N84-10610* #
NAS 1.15:85684 ..... 07 p0997 N84-16462* #
NAS 1.15:85685 ..... 04 p0585 N84-13866* #
NAS 1.15:85686 ..... 06 p0795 N84-15179* #
NAS 1.15:85687 ..... 01 p0083 N84-10538* #
NAS 1.15:85689 ..... 07 p0992 N84-16427* #
NAS 1.15:85690 ..... 08 p1105 N84-17186* #
NAS 1.15:85691 ..... 04 p0477 N84-13138* #
NAS 1.15:85693 ..... 08 p1231 N84-18044* #
NAS 1.15:85695 ..... 02 p0222 N84-11458* #
NAS 1.15:85696 ..... 02 p0174 N84-11145* #
NAS 1.15:85697 ..... 04 p0548 N84-13608* #
NAS 1.15:85699 ..... 07 p0953 N84-16178* #
NAS 1.15:85700 ..... 02 p0188 N84-11220* #
NAS 1.15:85701 ..... 04 p0477 N84-13139* #
NAS 1.15:85702 ..... 02 p0309 N84-12026* #
NAS 1.15:85703 ..... 02 p0188 N84-11219* #
NAS 1.15:85704 ..... 07 p1074 N84-16977* #
NAS 1.15:85706 ..... 03 p0388 N84-12531* #
NAS 1.15:85707 ..... 02 p0184 N84-11193* #
NAS 1.15:85710 ..... 19 p3080 N84-29543* #
NAS 1.15:85711 ..... 03 p0370 N84-12412* #
NAS 1.15:85712 ..... 05 p0625 N84-14110* #
NAS 1.15:85713 ..... 08 p1097 N84-17134* #
NAS 1.15:85714 ..... 03 p0388 N84-12529* #
NAS 1.15:85715 ..... 04 p0505 N84-13309* #
NAS 1.15:85716 ..... 09 p1386 N84-19052* #
NAS 1.15:85717 ..... 11 p1604 N84-20505* #
NAS 1.15:85718 ..... 04 p0489 N84-13211* #
NAS 1.15:85719 ..... 02 p0270 N84-11767* #
NAS 1.15:85720 ..... 02 p0277 N84-11815* #
NAS 1.15:85722 ..... 07 p1069 N84-16947* #
NAS 1.15:85723 ..... 04 p0479 N84-13150* #
NAS 1.15:85725 ..... 07 p1016 N84-16590* #
NAS 1.15:85726 ..... 18 p2917 N84-28495* #
NAS 1.15:85727 ..... 06 p0908 N84-15898* #
NAS 1.15:85728 ..... 06 p0798 N84-15199* #
NAS 1.15:85730 ..... 06 p0786 N84-15145* #
NAS 1.15:85732 ..... 10 p1420 N84-19287* #
NAS 1.15:85733 ..... 04 p0543 N84-13576* #
NAS 1.15:85734 ..... 06 p0798 N84-15200* #
NAS 1.15:85735 ..... 09 p1399 N84-19137* #
NAS 1.15:85737 ..... 08 p1105 N84-17185* #
NAS 1.15:85738 ..... 06 p0798 N84-15201* #
NAS 1.15:85739 ..... 23 p3690 N84-33385* #
NAS 1.15:85740 ..... 08 p1097 N84-17135* #
NAS 1.15:85741 ..... 07 p1016 N84-16591* #
NAS 1.15:85742 ..... 07 p0978 N84-16338* #
NAS 1.15:85743 ..... 11 p1668 N84-20880* #
NAS 1.15:85744 ..... 09 p1386 N84-19051* #
NAS 1.15:85745 ..... 07 p0974 N84-16312* #
NAS 1.15:85746 ..... 14 p2110 N84-23650* #
NAS 1.15:85747 ..... 07 p0978 N84-16338* #
NAS 1.15:85748 ..... 09 p1329 N84-18678* #
NAS 1.15:85749 ..... 09 p1249 N84-18154* #
NAS 1.15:85750 ..... 11 p1601 N84-20487* #
NAS 1.15:85751 ..... 11 p1601 N84-20485* #
NAS 1.15:85752 ..... 08 p1211 N84-17900* #
NAS 1.15:85753 ..... 10 p1464 N84-19565* #
NAS 1.15:85754 ..... 08 p1161 N84-17560* #
NAS 1.15:85755 ..... 09 p1275 N84-18325* #
NAS 1.15:85756 ..... 11 p1627 N84-20650* #
NAS 1.15:85759 ..... 09 p1257 N84-18206* #
NAS 1.15:85760 ..... 12 p1769 N84-21539* #
NAS 1.15:85761 ..... 14 p2157 N84-23924* #
NAS 1.15:85762 ..... 10 p1439 N84-19395* #
NAS 1.15:85763 ..... 12 p1789 N84-21667* #
NAS 1.15:85764 ..... 10 p1576 N84-20325* #
NAS 1.15:85765 ..... 22 p3530 N84-32348* #
NAS 1.15:85766 ..... 14 p2157 N84-23922* #
NAS 1.15:85768 ..... 18 p2809 N84-27835* #
NAS 1.15:85769 ..... 17 p2616 N84-26741* #
NAS 1.15:85770 ..... 12 p1765 N84-21513* #
NAS 1.15:85771 ..... 12 p1777 N84-21598* #
NAS 1.15:85772 ..... 12 p1779 N84-21608* #
NAS 1.15:85773 ..... 17 p2615 N84-26739* #
NAS 1.15:85774 ..... 11 p1623 N84-20626* #
NAS 1.15:85776 ..... 14 p2110 N84-23654* #
NAS 1.15:85777 ..... 13 p1930 N84-22553* #
NAS 1.15:85778 ..... 12 p1867 N84-22169* #
NAS 1.15:85779 ..... 19 p3039 N84-29278* #
NAS 1.15:85780 ..... 16 p2458 N84-25758* #
NAS 1.15:85781 ..... 15 p2370 N84-25219* #
NAS 1.15:85782 ..... 17 p2600 N84-26665* #
NAS 1.15:85783 ..... 16 p2454 N84-25733* #
NAS 1.15:85784 ..... 16 p2546 N84-26340* #
NAS 1.15:85787 ..... 13 p2000 N84-22979* #
NAS 1.15:85789 ..... 18 p2852 N84-28112* #
NAS 1.15:85790 ..... 15 p2403 N84-25425* #
NAS 1.15:85791 ..... 17 p2679 N84-27066* #
NAS 1.15:85792 ..... 16 p2495 N84-26007* #
NAS 1.15:85793 ..... 14 p2157 N84-23925* #
NAS 1.15:85794 ..... 16 p2553 N84-26382* #
NAS 1.15:85795 ..... 17 p2600 N84-26667* #
NAS 1.15:85796 ..... 18 p2785 N84-27677* #
NAS 1.15:85797 ..... 23 p3760 N84-33834* #
NAS 1.15:85798 ..... 19 p3035 N84-29249* #
NAS 1.15:85799 ..... 18 p2807 N84-27820* #
NAS 1.15:85802 ..... 22 p3603 N84-32827* #
NAS 1.15:85803 ..... 14 p2148 N84-23865* #
NAS 1.15:85805 ..... 19 p2993 N84-28964* #
NAS 1.15:85806 ..... 16 p2583 N84-26564* #
NAS 1.15:85807 ..... 16 p2439 N84-25645* #
NAS 1.15:85808 ..... 15 p2405 N84-25433* #
NAS 1.15:85809 ..... 16 p2484 N84-25927* #
NAS 1.15:85810 ..... 18 p2920 N84-28514* #
NAS 1.15:85811 ..... 17 p2749 N84-27448* #
NAS 1.15:85812 ..... 16 p2486 N84-25947* #
NAS 1.15:85813 ..... 19 p3003 N84-29035* #
NAS 1.15:85814 ..... 21 p3346 N84-31226* #
NAS 1.15:85815 ..... 19 p2963 N84-28779* #
NAS 1.15:85816 ..... 20 p3152 N84-30014* #
NAS 1.15:85817 ..... 19 p2958 N84-28747* #
NAS 1.15:85818 ..... 17 p2600 N84-26668* #
NAS 1.15:85819 ..... 18 p2809 N84-27833* #
NAS 1.15:85821 ..... 17 p2733 N84-27376* #
NAS 1.15:85822 ..... 17 p2733 N84-27374* #
NAS 1.15:85823 ..... 19 p2962 N84-28775* #
NAS 1.15:85824 ..... 18 p2836 N84-28000* #
NAS 1.15:85825 ..... 20 p3201 N84-30331* #
NAS 1.15:85826 ..... 18 p2809 N84-27834* #
NAS 1.15:85828 ..... 19 p3034 N84-29245* #
NAS 1.15:85829 ..... 18 p2785 N84-27679* #
NAS 1.15:85830 ..... 18 p2919 N84-28513* #
NAS 1.15:85831 ..... 20 p3128 N84-29864* #
NAS 1.15:85832 ..... 18 p2832 N84-27977* #
NAS 1.15:85833 ..... 20 p3133 N84-29697* #
NAS 1.15:85834 ..... 23 p3711 N84-33523* #
NAS 1.15:85835 ..... 24 p3923 N84-34828* #
NAS 1.15:85838 ..... 01 p0128 N84-10834* #
NAS 1.15:85839 ..... 05 p0732 N84-14805* #
NAS 1.15:85843 ..... 22 p3535 N84-32381* #
NAS 1.15:85844 ..... 02 p0174 N84-11143* #
NAS 1.15:85846 ..... 10 p1432 N84-19362* #
NAS 1.15:85847 ..... 04 p0621 N84-14096* #
NAS 1.15:85848 ..... 01 p0012 N84-10079* #
NAS 1.15:85849 ..... 01 p0005 N84-10034* #
NAS 1.15:85850 ..... 01 p0003 N84-10020* #
NAS 1.15:85851 ..... 03 p0371 N84-12414* #
NAS 1.15:85852 ..... 04 p0483 N84-13177* #
NAS 1.15:85853 ..... 02 p0193 N84-11256* #
NAS 1.15:85854 ..... 02 p0193 N84-11257* #
NAS 1.15:85855 ..... 06 p1099 N84-17144* #
NAS 1.15:85856 ..... 12 p1907 N84-22423* #
NAS 1.15:85857 ..... 04 p0588 N84-13886* #
NAS 1.15:85859 ..... 17 p2618 N84-26753* #
NAS 1.15:85861 ..... 03 p0429 N84-12809* #
NAS 1.15:85863 ..... 04 p0483 N84-13176* #
NAS 1.15:85865 ..... 08 p1247 N84-18152* #
NAS 1.15:85866 ..... 07 p1049 N84-16795* #
NAS 1.15:85867 ..... 19 p3067 N84-29456* #
NAS 1.15:85868 ..... 19 p3070 N84-29478* #
NAS 1.15:85869 ..... 13 p1931 N84-22558* #
NAS 1.15:85870 ..... 14 p2111 N84-23655* #
NAS 1.15:85871 ..... 11 p1656 N84-20807* #
NAS 1.15:85872 ..... 07 p0947 N84-16143* #
NAS 1.15:85873 ..... 22 p3537 N84-32393* #
NAS 1.15:85874 ..... 11 p1757 N84-21471* #

NAS 1.15:85875 ..... 12 p1921 N84-22515* #
NAS 1.15:85876 ..... 10 p1451 N84-19475* #
NAS 1.15:85877 ..... 22 p3543 N84-32431* #
NAS 1.15:85878-VOL-1 ..... 14 p2221 N84-24327* #
NAS 1.15:85878-VOL-2 ..... 15 p2403 N84-25426* #
NAS 1.15:85879 ..... 14 p2100 N84-23606* #
NAS 1.15:85880 ..... 08 p1098 N84-17141* #
NAS 1.15:85881 ..... 08 p1097 N84-17137* #
NAS 1.15:85883 ..... 10 p1545 N84-20125* #
NAS 1.15:85884 ..... 10 p1553 N84-20176* #
NAS 1.15:85885 ..... 07 p1007 N84-16526* #
NAS 1.15:85886 ..... 07 p1007 N84-16527* #
NAS 1.15:85887 ..... 07 p0946 N84-16139* #
NAS 1.15:85888 ..... 07 p0966 N84-16257* #
NAS 1.15:85889 ..... 13 p1989 N84-22913* #
NAS 1.15:85890 ..... 14 p2110 N84-23653* #
NAS 1.15:85892 ..... 09 p1255 N84-18190* #
NAS 1.15:85893 ..... 14 p2100 N84-23605* #
NAS 1.15:85894 ..... 15 p2255 N84-24540* #
NAS 1.15:85895 ..... 10 p1427 N84-19334* #
NAS 1.15:85896 ..... 15 p2424 N84-25562* #
NAS 1.15:85898 ..... 12 p1893 N84-22328* #
NAS 1.15:85899 ..... 12 p1815 N84-21833* #
NAS 1.15:85900 ..... 20 p3130 N84-29879* #
NAS 1.15:85901 ..... 20 p3131 N84-29884* #
NAS 1.15:85902 ..... 15 p2262 N84-24588* #
NAS 1.15:85903 ..... 20 p3131 N84-29885* #
NAS 1.15:85907 ..... 18 p2802 N84-27785* #
NAS 1.15:85908 ..... 21 p3328 N84-31112* #
NAS 1.15:85914 ..... 23 p3695 N84-33415* #
NAS 1.15:85927 ..... 13 p1935 N84-22585* #
NAS 1.15:85929 ..... 10 p1545 N84-20128* #
NAS 1.15:85931 ..... 22 p3684 N84-33365* #
NAS 1.15:85932 ..... 13 p1926 N84-22535* #
NAS 1.15:85933 ..... 14 p2103 N84-23617* #
NAS 1.15:85934 ..... 21 p3324 N84-31090* #
NAS 1.15:85935 ..... 12 p1826 N84-21904* #
NAS 1.15:85936 ..... 15 p2253 N84-24528* #
NAS 1.15:85937 ..... 13 p1926 N84-22536* #
NAS 1.15:85938 ..... 13 p1926 N84-22532* #
NAS 1.15:85939 ..... 13 p1935 N84-22584* #
NAS 1.15:85940 ..... 16 p2439 N84-25648* #
NAS 1.15:85941 ..... 14 p2113 N84-23665* #
NAS 1.15:85942 ..... 21 p3327 N84-31105* #
NAS 1.15:85943 ..... 21 p3398 N84-31554* #
NAS 1.15:85944 ..... 12 p1815 N84-21831* #
NAS 1.15:85945 ..... 19 p3080 N84-29544* #
NAS 1.15:85946 ..... 14 p2104 N84-23622* #
NAS 1.15:85947 ..... 19 p2968 N84-28809* #
NAS 1.15:85949 ..... 15 p2336 N84-25020* #
NAS 1.15:85950 ..... 18 p2792 N84-27718* #
NAS 1.15:85951 ..... 15 p2259 N84-24566* #
NAS 1.15:85953 ..... 16 p2575 N84-26525* #
NAS 1.15:85954 ..... 16 p2575 N84-26524* #
NAS 1.15:85955 ..... 16 p2574 N84-26521* #
NAS 1.15:85956 ..... 16 p2574 N84-26522* #
NAS 1.15:85957 ..... 19 p3062 N84-29556* #
NAS 1.15:85958 ..... 17 p2600 N84-26664* #
NAS 1.15:85959 ..... 22 p3644 N84-33106* #
NAS 1.15:85960 ..... 21 p3524 N84-32328* #
NAS 1.15:85961 ..... 17 p2774 N84-27615* #
NAS 1.15:85962 ..... 17 p2774 N84-27616* #
NAS 1.15:85963 ..... 16 p2575 N84-26526* #
NAS 1.15:85964 ..... 21 p3492 N84-32131* #
NAS 1.15:85965 ..... 18 p2785 N84-27680* #
NAS 1.15:85966 ..... 22 p3593 N84-32752* #
NAS 1.15:85967 ..... 16 p2574 N84-26523* #
NAS 1.15:85969 ..... 20 p3127 N84-29657* #
NAS 1.15:85970 ..... 22 p3530 N84-32350* #
NAS 1.15:85971 ..... 21 p3344 N84-31215* #
NAS 1.15:85973 ..... 18 p2836 N84-28001* #
NAS 1.15:85976 ..... 21 p3324 N84-31093* #
NAS 1.15:85977 ..... 20 p3183 N84-30225* #
NAS 1.15:85978 ..... 17 p2600 N84-26666* #
NAS 1.15:85980 ..... 22 p3531 N84-32358* #
NAS 1.15:85981 ..... 19 p3099 N84-29686* #
NAS 1.15:85982 ..... 20 p3290 N84-30887* #
NAS 1.15:85983 ..... 21 p3324 N84-31094* #
NAS 1.15:85984 ..... 19 p2958 N84-28746* #
NAS 1.15:85985 ..... 20 p3183 N84-30226* #
NAS 1.15:85986 ..... 21 p3324 N84-31092* #
NAS 1.15:85987 ..... 23 p3638 N84-34348* #
NAS 1.15:85989 ..... 19 p2958 N84-28745* #
NAS 1.15:85990 ..... 23 p3692 N84-33401* #
NAS 1.15:85992 ..... 19 p2963 N84-28780* #
NAS 1.15:85994 ..... 21 p3324 N84-31089* #
NAS 1.15:85995 ..... 20 p3227 N84-30510* #
NAS 1.15:85997 ..... 24 p3900 N84-34695* #
NAS 1.15:86001 ..... 22 p3544 N84-32438* #
NAS 1.15:86002 ..... 22 p3535 N84-32379* #
NAS 1.15:86004 ..... 23 p3840 N84-34359* #
NAS 1.15:86008 ..... 24 p3950 N84-35009* #
NAS 1.15:86009 ..... 24 p3856 N84-34445* #
NAS 1.15:86012 ..... 23 p3689 N84-33383* #
NAS 1.15:86019 ..... 22 p3593 N84-32753* #
NAS 1.15:86023 ..... 05 p0757 N84-14965* #
NAS 1.15:86024 ..... 08 p1115 N84-17250* #
NAS 1.15:86025 ..... 07 p0951 N84-16168* #
NAS 1.15:86026 ..... 05 p0632 N84-14157* #
NAS 1.15:86028 ..... 07 p0958 N84-16213* #
NAS 1.15:86029 ..... 22 p3535 N84-32384* #
NAS 1.15:86031 ..... 19 p2965 N84-28792* #
NAS 1.15:86033 ..... 09 p1330 N84-18685* #
NAS 1.15:86034 ..... 11 p1615 N84-20566* #
NAS 1.15:86036 ..... 11 p1607 N84-20521* #
NAS 1.15:86039 ..... 11 p1606 N84-20515* #
NAS 1.15:86040 ..... 15 p2262 N84-24587* #
NAS 1.15:86041 ..... 20 p3128 N84-29863* #
NAS 1.15:86044 ..... 16 p2501 N84-26054* #
NAS 1.15:86045 ..... 08 p1242 N84-18123* #
NAS 1.15:86047 ..... 08 p1247 N84-18150* #
NAS 1.15:86049 ..... 08 p1244 N84-18132* #
NAS 1.15:86050 ..... 09 p1406 N84-19186* #
NAS 1.15:86051 ..... 08 p1244 N84-18131* #
NAS 1.15:86052 ..... 07 p1093 N84-17109* #
NAS 1.15:86053 ..... 12 p1850 N84-22049* #
NAS 1.15:86055 ..... 08 p1247 N84-18151* #
NAS 1.15:86056 ..... 14 p2168 N84-23989* #
NAS 1.15:86057 ..... 09 p1372 N84-18961* #
NAS 1.15:86058 ..... 21 p3442 N84-31838* #
NAS 1.15:86060 ..... 09 p1407 N84-19195* #
NAS 1.15:86062 ..... 09 p1367 N84-18921* #
NAS 1.15:86063 ..... 13 p2010 N84-23041* #
NAS 1.15:86064-VOL-1 ..... 14 p2179 N84-24048* #
NAS 1.15:86064-VOL-2 ..... 14 p2179 N84-24049* #
NAS 1.15:86064-VOL-3 ..... 14 p2179 N84-24050* #
NAS 1.15:86065 ..... 12 p1860 N84-22117* #
NAS 1.15:86066 ..... 10 p1520 N84-19956* #
NAS 1.15:86067 ..... 12 p1922 N84-22518* #
NAS 1.15:86068 ..... 10 p1520 N84-19955* #
NAS 1.15:86069 ..... 09 p1416 N84-19266* #
NAS 1.15:86070 ..... 11 p1760 N84-21487* #
NAS 1.15:86071 ..... 12 p1922 N84-22519* #
NAS 1.15:86072 ..... 11 p1681 N84-20971* #
NAS 1.15:86074 ..... 17 p2781 N84-27659* #
NAS 1.15:86076 ..... 12 p1923 N84-22525* #
NAS 1.15:86077 ..... 20 p3319 N84-31069* #
NAS 1.15:86078 ..... 12 p1830 N84-21929* #
NAS 1.15:86080 ..... 16 p2528 N84-26233* #
NAS 1.15:86083 ..... 17 p2616 N84-26743* #
NAS 1.15:86084 ..... 21 p3463 N84-31956* #
NAS 1.15:86085 ..... 24 p3923 N84-34827* #
NAS 1.15:86087 ..... 14 p2113 N84-23666* #
NAS 1.15:86088 ..... 18 p2952 N84-28712* #
NAS 1.15:86089 ..... 18 p2923 N84-28535* #
NAS 1.15:86090 ..... 22 p3581 N84-32679* #
NAS 1.15:86091 ..... 18 p2879 N84-28277* #
NAS 1.15:86092 ..... 14 p2148 N84-23866* #
NAS 1.15:86094 ..... 14 p2250 N84-24512* #
NAS 1.15:86095 ..... 14 p2169 N84-23991* #
NAS 1.15:86096 ..... 21 p3430 N84-31761* #
NAS 1.15:86097 ..... 16 p2548 N84-26353* #
NAS 1.15:86098 ..... 15 p2423 N84-25559* #
NAS 1.15:86099 ..... 20 p3320 N84-31079* #
NAS 1.15:86100 ..... 15 p2425 N84-25565* #
NAS 1.15:86101 ..... 15 p2367 N84-25203* #
NAS 1.15:86102 ..... 14 p2251 N84-24519* #
NAS 1.15:86103 ..... 15 p2405 N84-25434* #
NAS 1.15:86104 ..... 18 p2883 N84-28295* #
NAS 1.15:86105 ..... 15 p2319 N84-24922* #
NAS 1.15:86106 ..... 15 p2371 N84-25221* #
NAS 1.15:86107 ..... 15 p2357 N84-25142* #
NAS 1.15:86109 ..... 16 p2582 N84-26560* #
NAS 1.15:86110 ..... 16 p2582 N84-26561* #
NAS 1.15:86112 ..... 15 p2428 N84-25583* #
NAS 1.15:86113 ..... 24 p3968 N84-35127* #
NAS 1.15:86114 ..... 17 p2726 N84-27353* #
NAS 1.15:86115 ..... 24 p3982 N84-35234* #
NAS 1.15:86116 ..... 21 p3524 N84-32327* #
NAS 1.15:86117 ..... 21 p3526 N84-32338* #
NAS 1.15:86118 ..... 17 p2776 N84-27623* #
NAS 1.15:86119 ..... 16 p2521 N84-26183* #
NAS 1.15:86120 ..... 16 p2581 N84-26554* #
NAS 1.15:86121 ..... 16 p2558 N84-26409* #
NAS 1.15:86122 ..... 16 p2579 N84-26545* #
NAS 1.15:86123 ..... 20 p3220 N84-30455* #
NAS 1.15:86124 ..... 20 p3301 N84-30962* #
NAS 1.15:86125 ..... 24 p3916 N84-34795* #
NAS 1.15:86126 ..... 21 p3526 N84-32337* #
NAS 1.15:86127 ..... 22 p3572 N84-32621* #
NAS 1.15:86128 ..... 17 p2781 N84-27654* #
NAS 1.15:86129-VOL-1-PT-1 ..... 20 p3219 N84-30450* #
NAS 1.15:86129-VOL-1-PT-2 ..... 20 p3217 N84-30433* #
NAS 1.15:86130 ..... 21 p3426 N84-31734* #
NAS 1.15:86131 ..... 21 p3525 N84-32333* #
NAS 1.15:86132 ..... 22 p3680 N84-33332* #
NAS 1.15:86133 ..... 21 p3426 N84-31733* #
NAS 1.15:86134 ..... 22 p3614 N84-32895* #
NAS 1.15:86136 ..... 21 p3461 N84-31949* #
NAS 1.15:86137 ..... 23 p3845 N84-34391* #
NAS 1.15:86139 ..... 22 p3678 N84-33317* #
NAS 1.15:86140 ..... 22 p3680 N84-33326* #

NAS 1.15:86141 ..... 21 p3430 N84-31760* #
NAS 1.15:86142 ..... 22 p3679 N84-33325* #
NAS 1.15:86144 ..... 24 p3992 N84-35262* #
NAS 1.15:86146 ..... 24 p3987 N84-35240* #
NAS 1.15:86147 ..... 22 p3679 N84-33320* #
NAS 1.15:86148 ..... 24 p3919 N84-34808* #
NAS 1.15:86151 ..... 24 p3945 N84-34975* #
NAS 1.15:86152 ..... 24 p3968 N84-35128* #
NAS 1.15:86154 ..... 24 p3965 N84-35107* #
NAS 1.15:86160 ..... 24 p3919 N84-34809* #
NAS 1.15:86244 ..... 04 p0488 N84-13206* #
NAS 1.15:86246 ..... 13 p2073 N84-23431* #
NAS 1.15:86247 ..... 15 p2426 N84-25567* #
NAS 1.15:86248 ..... 14 p2183 N84-24078* #
NAS 1.15:86249 ..... 19 p3121 N84-29840* #
NAS 1.15:86250 ..... 16 p2566 N84-26468* #
NAS 1.15:86252 ..... 18 p2954 N84-28725* #
NAS 1.15:86254 ..... 19 p2981 N84-28893* #
NAS 1.15:86255 ..... 19 p3080 N84-29545* #
NAS 1.15:86256 ..... 20 p3145 N84-29968* #
NAS 1.15:86257 ..... 20 p3131 N84-29883* #
NAS 1.15:86258 ..... 20 p3125 N84-29847* #
NAS 1.15:86259 ..... 24 p3854 N84-34439* #
NAS 1.15:86260 ..... 22 p3542 N84-32422* #
NAS 1.15:86261 ..... 19 p3093 N84-29640* #
NAS 1.15:86264 ..... 21 p3326 N84-31104* #
NAS 1.15:86265 ..... 23 p3700 N84-33453* #
NAS 1.15:86266 ..... 20 p3201 N84-30330* #
NAS 1.15:86269 ..... 21 p3419 N84-31684* #
NAS 1.15:86271 ..... 21 p3419 N84-31686* #
NAS 1.15:86273 ..... 23 p3689 N84-33382* #
NAS 1.15:86275 ..... 20 p3129 N84-29871* #
NAS 1.15:86278 ..... 22 p3530 N84-32353* #
NAS 1.15:86279 ..... 22 p3532 N84-32365* #
NAS 1.15:86280 ..... 21 p3399 N84-31560* #
NAS 1.15:86282 ..... 22 p3611 N84-32877* #
NAS 1.15:86283 ..... 22 p3544 N84-32437* #
NAS 1.15:86284 ..... 23 p3810 N84-34161* #
NAS 1.15:86285 ..... 20 p3240 N84-30586* #
NAS 1.15:86287 ..... 22 p3544 N84-32435* #
NAS 1.15:86289 ..... 23 p3817 N84-34199* #
NAS 1.15:86291 ..... 22 p3544 N84-32439* #
NAS 1.15:86293 ..... 22 p3554 N84-32505* #
NAS 1.15:86294 ..... 22 p3554 N84-32506* #
NAS 1.15:86295 ..... 22 p3555 N84-32507* #
NAS 1.15:86297 ..... 22 p3544 N84-32436* #
NAS 1.15:86300 ..... 23 p3730 N84-33641* #
NAS 1.15:86301 ..... 23 p3711 N84-33524* #
NAS 1.15:86302 ..... 24 p3866 N84-34501* #
NAS 1.15:86307 ..... 23 p3741 N84-33714* #
NAS 1.15:86311 ..... 24 p3879 N84-34577* #
NAS 1.15:86451 ..... 22 p3598 N84-32788* #
NAS 1.15:86452 ..... 21 p3369 N84-31378* #
NAS 1.15:86453 ..... 21 p3390 N84-31511* #
NAS 1.15:86454 ..... 21 p3412 N84-31638* #
NAS 1.15:86455 ..... 21 p3405 N84-31597* #
NAS 1.15:86456 ..... 21 p3412 N84-31639* #
NAS 1.15:86457 ..... 22 p3640 N84-33076* #
NAS 1.15:86458 ..... 23 p3844 N84-34388* #
NAS 1.15:86459 ..... 22 p3600 N84-32805* #
NAS 1.15:86461 ..... 23 p3701 N84-33461* #
NAS 1.15:86462 ..... 22 p3604 N84-32829* #
NAS 1.15:86463 ..... 24 p3867 N84-34506* #
NAS 1.15:86464 ..... 23 p3717 N84-33563* #
NAS 1.15:86465 ..... 23 p3814 N84-34186* #
NAS 1.15:86466 ..... 23 p3700 N84-33455* #
NAS 1.15:86467 ..... 24 p3945 N84-34976* #
NAS 1.15:86469 ..... 24 p3992 N84-35265* #
NAS 1.15:86472 ..... 24 p3983 N84-35235* #
NAS 1.15:86651 ..... 21 p3518 N84-32283* #
NAS 1.15:86652-BK-1 ..... 23 p3698 N84-33438* #
NAS 1.15:86652-BK-1-7 ..... 23 p3698 N84-33437* #
NAS 1.15:86652-BK-2 ..... 23 p3698 N84-33439* #
NAS 1.15:86652-BK-3 ..... 23 p3698 N84-33440* #
NAS 1.15:86652-BK-4/5 ..... 23 p3699 N84-33441* #
NAS 1.15:86652-BK-6 ..... 23 p3699 N84-33442* #
NAS 1.15:86652-BK-7 ..... 23 p3699 N84-33443* #
NAS 1.15:86654 ..... 20 p3256 N84-30664* #
NAS 1.15:86857 ..... 22 p3628 N84-32990* #
NAS 1.15:86861 ..... 20 p3234 N84-30528* #
NAS 1.15:86862 ..... 22 p3559 N84-32536* #
NAS 1.15:86873 ..... 23 p3836 N84-34330* #
NAS 1.15:87360 ..... 23 p3811 N84-34165* #
NAS 1.15:87362 ..... 23 p3834 N84-34321* #
NAS 1.15:67363 ..... 23 p3844 N84-34387* #
NAS 1.15:87365 ..... 24 p3944 N84-34973* #
NAS 1.15:87369 ..... 24 p3992 N84-35264* #
NAS 1.19:165 ..... 01 p0027 N84-10172* #
NAS 1.19:182 ..... 16 p2583 N84-26563* #
NAS 1.19:199 ..... 12 p1921 N84-22517* #
NAS 1.19:200 ..... 09 p1260 N84-18224* #
NAS 1.19:205 ..... 19 p2979 N84-28883* #
NAS 1.19:208 ..... 18 p2953 N84-28715* #
NAS 1.20:139 ..... 03 p0461 N84-13036* #
NAS 1.20:140 ..... 08 p1109 N84-17210* #
NAS 1.21:221(06) ..... 09 p1329 N84-18677* #
NAS 1.21:459 ..... 01 p0110 N84-10718* #
NAS 1.21:462 ..... 06 p0786 N84-15144* #
NAS 1.21:465 ..... 05 p0695 N84-14563*
NAS 1.21:466 ..... 12 p1921 N84-22516* #
NAS 1.21:471 ..... 09 p1414 N84-19253* #
NAS 1.21:473 ..... 15 p2270 N84-24632* #
NAS 1.21:474 ..... 24 p3989 N84-35242* #
NAS 1.21:4021 ..... 15 p2431 N84-25602* #
NAS 1.21:4208 ..... 16 p2454 N84-25737* #
NAS 1.21:4212 ..... 24 p3990 N84-35248* #
NAS 1.21:7011(250) 03 p0415 N84-12712*
NAS 1.21:7011(251) ..... 04 p0572 N84-13767* #
NAS 1.21:7011(253) 07 p1047 N84-16790*
NAS 1.21:7011(254) 11 p1693 N84-21043*
NAS 1.21:7011(255) 10 p1546 N84-20134*
NAS 1.21:7011(256) 11 p1693 N84-21044*
NAS 1.21:7011(257) 12 p1864 N84-22146*
NAS 1.21:7011(258) 14 p2184 N84-24088*
NAS 1.21:7011(259) 17 p2743 N84-27415*
NAS 1.21:7011(260) 19 p3064 N84-29440*
NAS 1.21:7011(261) 20 p3259 N84-30683*
NAS 1.21:7011(262) 22 p3630 N84-33003*
NAS 1.21:7037(165) 01 p0001 N84-10008*
NAS 1.21:7037(166) 03 p0311 N84-12027*
NAS 1.21:7037(167) ..... 04 p0477 N84-13137* #
NAS 1.21:7037(168) ..... 04 p0477 N84-13136* #
NAS 1.21:7037(169) 08 p1095 N84-17117*
NAS 1.21:7037(170) 10 p1546 N84-20133*
NAS 1.21:7037(171) 10 p1419 N84-19279*
NAS 1.21:7037(172) 12 p1763 N84-21492*
NAS 1.21:7037(173) 16 p2433 N84-25603*
NAS 1.21:7037(174) 16 p2433 N84-25604*
NAS 1.21:7037(175) 19 p2955 N84-28726*
NAS 1.21:7037(176) 19 p2956 N84-28733*
NAS 1.21:7037(177) 22 p3529 N84-32342*
NAS 1.21:7037(178) 22 p3529 N84-32343*
NAS 1.21:7038(05) 09 p1399 N84-19133*
NAS 1.21:7038(07) 09 p1399 N84-19134*
NAS 1.21:7039(23) 03 p0458 N84-13018*
NAS 1.21:7039(23)-SECT-1 ..... 03 p0458 N84-13017*
NAS 1.21:7039(24)-SECT-1 ..... 10 p1592 N84-20432*
NAS 1.21:7039(24)-SECT-2 ..... 10 p1592 N84-20433*
NAS 1.21:7039(25)-SECT-1 ..... 21 p3516 N84-32272*
NAS 1.21:7039(25)-SECT-2 ..... 22 p3669 N84-33257*
NAS 1.21:7041(40) 09 p1336 N84-18723*
NAS 1.21:7041(41) 14 p2166 N84-23975*
NAS 1.21:7041(42) 21 p3425 N84-31725*
NAS 1.21:7043(38) 02 p0241 N84-11578*
NAS 1.21:7043(39) 10 p1528 N84-20011*
NAS 1.21:7043(40) 12 p1837 N84-21977*
NAS 1.21:7046(09) ..... 04 p0488 N84-13204* #
NAS 1.21:7046(10) 16 p2454 N84-25736*
NAS 1.21:7051(SUPPL-1) 13 p2066 N84-23396*
NAS 1.21:7500(18) 16 p2561 N84-26429*
NAS 1.26:3248 ..... 16 p2438 N84-25641* #
NAS 1.26:3250 ..... 19 p2957 N84-28741* #
NAS 1.26:3251 ..... 18 p2788 N84-27697* #
NAS 1.26:3252 ..... 18 p2788 N84-27698* #
NAS 1.26:3254 ..... 23 p3690 N84-33388* #
NAS 1.26:3290 ..... 18 p2792 N84-27722* #
NAS 1.26:3376 ..... 23 p3690 N84-33386* #
NAS 1.26:3457 ..... 19 p2957 N84-28740* #
NAS 1.26:3468 ..... 18 p2792 N84-27720* #
NAS 1.26:3469 ..... 18 p2786 N84-27683* #
NAS 1.26:3472 ..... 18 p2792 N84-27721* #
NAS 1.26:3503 ..... 18 p2788 N84-27695* #
NAS 1.26:3517 ..... 18 p2810 N84-27838* #
NAS 1.26:3519 ..... 18 p2792 N84-27723* #
NAS 1.26:3523 ..... 19 p2957 N84-28742* #
NAS 1.26:3524 ..... 19 p2955 N84-28727* #
NAS 1.26:3530 ..... 19 p2956 N84-28736* #
NAS 1.26:3545 ..... 18 p2796 N84-27744* #
NAS 1.26:3585 ..... 19 p2963 N84-28777* #
NAS 1.26:3586 ..... 23 p3693 N84-33402* #
NAS 1.26:3621 ..... 11 p1651 N84-20781* #
NAS 1.26:3676 ..... 08 p1096 N84-17130* #
NAS 1.26:3690 ..... 07 p0966 N84-16258* #
NAS 1.26:3698 ..... 08 p1114 N84-17248* #
NAS 1.26:3699 ..... 04 p0486 N84-13194* #
NAS 1.26:3700 ..... 09 p1254 N84-18183* #
NAS 1.26:3706 ..... 02 p0193 N84-11253* #
NAS 1.26:3720 ..... 02 p0187 N84-11218* #
NAS 1.26:3721 ..... 06 p0781 N84-15114* #
NAS 1.26:3726 ..... 08 p1099 N84-17149* #
NAS 1.26:3727 ..... 03 p0320 N84-12091* #
NAS 1.26:3729 ..... 03 p0388 N84-12530* #
NAS 1.26:3730 ..... 11 p1600 N84-20479* #
NAS 1.26:3731 ..... 04 p0532 N84-13501* #
NAS 1.26:3734 ..... 01 p0089 N84-10583* #
NAS 1.26:3735 ..... 01 p0090 N84-10584* #
NAS 1.26:3736 ..... 01 p0089 N84-10582* #
NAS 1.26:3737 ..... 04 p0566 N84-13730* #
NAS 1.26:3738 ..... 07 p0958 N84-16212* #
NAS 1.26:3740 ..... 02 p0193 N84-11258* #
NAS 1.26:3741 ..... 06 p0784 N84-15135* #
NAS 1.26:3742 ..... 04 p0486 N84-13195* #

NAS 1.26:3743 ..... 02 p0174 N84-11144* #
NAS 1.26:3744 ..... 01 p0139 N84-10912* #
NAS 1.26:3745 ..... 13 p1939 N84-22606* #
NAS 1.26:3749 ..... 05 p0689 N84-14525* #
NAS 1.26:3750 ..... 05 p0689 N84-14526* #
NAS 1.26:3751 ..... 04 p0488 N84-13208* #
NAS 1.26:3752 ..... 04 p0567 N84-13736* #
NAS 1.26:3753 ..... 06 p0797 N84-15196* #
NAS 1.26:3754 ..... 08 p1096 N84-17129* #
NAS 1.26:3756 ..... 06 p0854 N84-15565* #
NAS 1.26:3757 ..... 07 p1074 N84-16984* #
NAS 1.26:3758 ..... 19 p3096 N84-29661* #
NAS 1.26:3759 ..... 09 p1312 N84-18572* #
NAS 1.26:3760 ..... 09 p1265 N84-18262* #
NAS 1.26:3761 ..... 06 p0834 N84-15425* #
NAS 1.26:3763 ..... 06 p0781 N84-15115* #
NAS 1.26:3764 ..... 08 p1097 N84-17131* #
NAS 1.26:3765 ..... 09 p1312 N84-18571* #
NAS 1.26:3766 ..... 06 p0877 N84-15706* #
NAS 1.26:3768 ..... 06 p0858 N84-15587* #
NAS 1.26:3769 ..... 07 p1000 N84-16488* #
NAS 1.26:3770 ..... 08 p1168 N84-17606* #
NAS 1.26:3771 ..... 06 p0881 N84-15729* #
NAS 1.26:3772 ..... 17 p2617 N84-26750* #
NAS 1.26:3773 ..... 10 p1516 N84-19924* #
NAS 1.26:3774 ..... 07 p1009 N84-16544* #
NAS 1.26:3776 ..... 08 p1104 N84-17178* #
NAS 1.26:3777 ..... 08 p1106 N84-17189* #
NAS 1.26:3778 ..... 11 p1731 N84-21293* #
NAS 1.26:3780 ..... 11 p1600 N84-20482* #
NAS 1.26:3782 ..... 11 p1758 N84-21474* #
NAS 1.26:3783 ..... 09 p1385 N84-19044* #
NAS 1.26:3784 ..... 11 p1627 N84-20648* #
NAS 1.26:3785 ..... 11 p1602 N84-20494* #
NAS 1.26:3786 ..... 09 p1385 N84-19048* #
NAS 1.26:3787 ..... 09 p1348 N84-18805* #
NAS 1.26:3788 ..... 11 p1628 N84-20654* #
NAS 1.26:3789 ..... 11 p1728 N84-21275* #
NAS 1.26:3790 ..... 10 p1516 N84-19925* #
NAS 1.26:3791 ..... 20 p3126 N84-29854* #
NAS 1.26:3792 ..... 16 p2485 N84-25941* #
NAS 1.26:3793 ..... 16 p2498 N84-26027* #
NAS 1.26:3794 ..... 17 p2617 N84-26752* #
NAS 1.26:3795 ..... 17 p2743 N84-27417* #
NAS 1.26:3796 ..... 17 p2743 N84-27416* #
NAS 1.26:3797 ..... 12 p1899 N84-22365* #
NAS 1.26:3798 ..... 14 p2119 N84-23697* #
NAS 1.26:3799 ..... 14 p2168 N84-23987* #
NAS 1.26:3800 ..... 20 p3200 N84-30328* #
NAS 1.26:3801 ..... 16 p2537 N84-26291* #
NAS 1.26:3802 ..... 20 p3132 N84-29888* #
NAS 1.26:3803 ..... 16 p2554 N84-26384* #
NAS 1.26:3804 ..... 16 p2486 N84-25943* #
NAS 1.26:3807 ..... 20 p3277 N84-30601* #
NAS 1.26:3809 ..... 21 p3325 N84-31097* #
NAS 1.26:3810 ..... 21 p3426 N84-31732* #
NAS 1.26:3811 ..... 20 p3126 N84-29853* #
NAS 1.26:3812 ..... 19 p3057 N84-29397* #
NAS 1.26:3813 ..... 19 p3099 N84-29687* #
NAS 1.26:3814 ..... 19 p2958 N84-28749* #
NAS 1.26:3815 ..... 21 p3357 N84-31290* #
NAS 1.26:3817 ..... 19 p3057 N84-29398* #
NAS 1.26:3819 ..... 21 p3446 N84-31866* #
NAS 1.26:3820 ..... 23 p3800 N84-34090* #
NAS 1.26:3821 ..... 23 p3689 N84-33378* #
NAS 1.26:3822 ..... 21 p3344 N84-31216* #
NAS 1.26:3823 ..... 21 p3491 N84-32123* #
NAS 1.26:3826 ..... 24 p3921 N84-34815* #
NAS 1.26:3827 ..... 23 p3696 N84-33422* #
NAS 1.26:3828 ..... 21 p3344 N84-31217* #
NAS 1.26:3829 ..... 21 p3344 N84-31218* #
NAS 1.26:3832 ..... 23 p3694 N84-33412* #
NAS 1.26:3833 ..... 22 p3531 N84-32355* #
NAS 1.26:3835 ..... 22 p3624 N84-32965* #
NAS 1.26:17355 ..... 10 p1432 N84-19360* #
NAS 1.26:152186 ..... 10 p1419 N84-19281* #
NAS 1.26:157639 ..... 19 p2985 N84-28915* #
NAS 1.26:158927 ..... 22 p3533 N84-32367* #
NAS 1.26:159173 ..... 19 p3020 N84-29150* #
NAS 1.26:159327 ..... 23 p3695 N84-33418* #
NAS 1.26:159332 ..... 19 p2956 N84-28735* #
NAS 1.26:159389 ..... 23 p3693 N84-33403* #
NAS 1.26:161231 ..... 21 p3352 N84-31264* #
NAS 1.26:161590 ..... 21 p3352 N84-31263* #
NAS 1.26:161927 ..... 21 p3352 N84-31265* #
NAS 1.26:161963 ..... 22 p3592 N84-32749* #
NAS 1.26:161977 ..... 18 p2832 N84-27978* #
NAS 1.26:161978 ..... 18 p2832 N84-27979* #
NAS 1.26:161988 ..... 19 p3011 N84-29067* #
NAS 1.26:162008 ..... 19 p3012 N84-29094* #
NAS 1.26:162032 ..... 19 p3073 N84-29499* #
NAS 1.26:162039 ..... 19 p3012 N84-29089* #
NAS 1.26:162040 ..... 19 p3012 N84-29090* #
NAS 1.26:162041 ..... 19 p3012 N84-29091* #
NAS 1.26:162049 ..... 20 p3152 N84-30015* #
NAS 1.26:162071 ..... 19 p3011 N84-29088* #
NAS 1.26:162713 ..... 19 p2963 N84-28776* #
NAS 1.26:163048 ..... 19 p2979 N84-28884* #
NAS 1.26:163114 ..... 18 p2813 N84-27860* #
NAS 1.26:165325 ..... 15 p2301 N84-24809* #
NAS 1.26:165428 ..... 06 p0790 N84-15154* #
NAS 1.26:165429 ..... 02 p0231 N84-11514* #
NAS 1.26:165430 ..... 02 p0231 N84-11515* #
NAS 1.26:165466 ..... 18 p2795 N84-27737* #
NAS 1.26:165567 ..... 18 p2796 N84-27739* #
NAS 1.26:165592 ..... 18 p2795 N84-27738* #
NAS 1.26:165597 ..... 11 p1753 N84-21445* #
NAS 1.26:165608 ..... 19 p2965 N84-28788* #
NAS 1.26:165631-VOL-1 ..... 19 p2967 N84-28802* #
NAS 1.26:165631-VOL-2 ..... 19 p2967 N84-28803* #
NAS 1.26:165800 ..... 23 p3690 N84-33387* #
NAS 1.26:165807 ..... 18 p2786 N84-27685* #
NAS 1.26:165816 ..... 19 p3020 N84-29151* #
NAS 1.26:165824 ..... 19 p3073 N84-29501* #
NAS 1.26:165831 ..... 18 p2920 N84-28516* #
NAS 1.26:165832 ..... 18 p2920 N84-28515* #
NAS 1.26:165874 ..... 21 p3463 N84-31955* #
NAS 1.26:165875 ..... 19 p3073 N84-29498* #
NAS 1.26:165920 ..... 19 p2967 N84-28804* #
NAS 1.26:165922 ..... 02 p0222 N84-11459* #
NAS 1.26:165925 ..... 18 p2836 N84-28002* #
NAS 1.26:165928 ..... 19 p2963 N84-28778* #
NAS 1.26:165949 ..... 23 p3695 N84-33416* #
NAS 1.26:165951 ..... 19 p2967 N84-28805* #
NAS 1.26:165997 ..... 23 p3746 N84-33749* #
NAS 1.26:166008 ..... 15 p2385 N84-25307* #
NAS 1.26:166018 ..... 11 p1600 N84-20481* #
NAS 1.26:166055 ..... 01 p0012 N84-10078* #
NAS 1.26:166065 ..... 01 p0030 N84-10188* #
NAS 1.26:166096 ..... 12 p1876 N84-22227* #
NAS 1.26:166268 ..... 18 p2788 N84-27693* #
NAS 1.26:166269 ..... 19 p2961 N84-28767* #
NAS 1.26:166270 ..... 19 p2956 N84-28738* #
NAS 1.26:166271 ..... 19 p2956 N84-28737* #
NAS 1.26:166309 ..... 19 p2968 N84-28806* #
NAS 1.26:166317 ..... 23 p3814 N84-34187* #
NAS 1.26:166442-VOL-1 ..... 17 p2600 N84-26662* #
NAS 1.26:166442-VOL-2 ..... 17 p2600 N84-26663* #
NAS 1.26:166462 ..... 11 p1603 N84-20501* #
NAS 1.26:166463 ..... 08 p1245 N84-18136* #
NAS 1.26:166464 ..... 08 p1245 N84-18137* #
NAS 1.26:166474 ..... 08 p1202 N84-17838* #
NAS 1.26:166491 ..... 01 p0004 N84-10024* #
NAS 1.26:166506 ..... 06 p0905 N84-15877* #
NAS 1.26:166510 ..... 13 p2070 N84-23411* #
NAS 1.26:166519 ..... 16 p2451 N84-25716* #
NAS 1.26:166524 ..... 07 p0947 N84-16147* #
NAS 1.26:166526 ..... 09 p1256 N84-18196* #
NAS 1.26:166528 ..... 04 p0480 N84-13159* #
NAS 1.26:166529 ..... 04 p0480 N84-13158* #
NAS 1.26:166530 ..... 16 p2445 N84-25684* #
NAS 1.26:166531 ..... 08 p1216 N84-17936* #
NAS 1.26:166533 ..... 04 p0480 N84-13157* #
NAS 1.26:166534 ..... 10 p1425 N84-19317* #
NAS 1.26:166538 ..... 08 p1205 N84-17857* #
NAS 1.26:166539 ..... 08 p1205 N84-17856* #
NAS 1.26:166540 ..... 08 p1205 N84-17855* #
NAS 1.26:166541 ..... 08 p1156 N84-17528* #
NAS 1.26:166542 ..... 08 p1156 N84-17526* #
NAS 1.26:166544 ..... 08 p1227 N84-18015* #
NAS 1.26:166545 ..... 08 p1156 N84-17527* #
NAS 1.26:166546 ..... 08 p1155 N84-17519* #
NAS 1.26:166547 ..... 08 p1097 N84-17133* #
NAS 1.26:166548 ..... 08 p1143 N84-17433* #
NAS 1.26:166549 ..... 17 p2751 N84-27460* #
NAS 1.26:166560 ..... 10 p1552 N84-20174* #
NAS 1.26:166561 ..... 11 p1600 N84-20478* #
NAS 1.26:166562 ..... 10 p1501 N84-19813* #
NAS 1.26:166563 ..... 10 p1525 N84-19988* #
NAS 1.26:166565-PT-1 ..... 17 p2757 N84-27503* #
NAS 1.26:166565-PT-2 ..... 17 p2666 N84-27002* #
NAS 1.26:166565-PT-3 ..... 17 p2667 N84-27003* #
NAS 1.26:166567 ..... 11 p1614 N84-20564* #
NAS 1.26:166569 ..... 12 p1828 N84-21915* #
NAS 1.26:166570 ..... 24 p3852 N84-34431* #
NAS 1.26:166572 ..... 16 p2438 N84-25642* #
NAS 1.26:166573 ..... 17 p2603 N84-26679* #
NAS 1.26:166574 ..... 12 p1879 N84-22243* #
NAS 1.26:166575 ..... 12 p1765 N84-21511* #
NAS 1.26:166578 ..... 21 p3356 N84-31285* #
NAS 1.26:166579 ..... 19 p3020 N84-29148* #
NAS 1.26:166580 ..... 22 p3531 N84-32356* #
NAS 1.26:166581 ..... 21 p3464 N84-31962* #
NAS 1.26:166583 ..... 18 p2836 N84-27999* #
NAS 1.26:166584 ..... 18 p2844 N84-28057* #
NAS 1.26:166585 ..... 17 p2671 N84-27025* #
NAS 1.26:166586 ..... 19 p3026 N84-29192* #
NAS 1.26:166588 ..... 22 p3538 N84-32399* #
NAS 1.26:166589 ..... 21 p3412 N84-31637* #
NAS 1.26:166589-PT-1 ..... 21 p3412 N84-31634* #
NAS 1.26:166589-PT-2 ..... 21 p3412 N84-31635* #
NAS 1.26:166589-PT-3 ..... 21 p3412 N84-31636* #

NAS 1.26:166593 ..... 21 p3503 N84-32201* #
NAS 1.26:166594 ..... 21 p3345 N84-31219* #
NAS 1.26:166596 ..... 23 p3810 N84-34160* #
NAS 1.26:166597 ..... 21 p3355 N84-31284* #
NAS 1.26:166599 ..... 23 p3723 N84-33592* #
NAS 1.26:166600 ..... 23 p3723 N84-33591* #
NAS 1.26:166602 ..... 24 p3852 N84-34428* #
NAS 1.26:166603 ..... 24 p3852 N84-34429* #
NAS 1.26:166604 ..... 24 p3852 N84-34430* #
NAS 1.26:166605 ..... 24 p3902 N84-34708* #
NAS 1.26:166607 ..... 24 p3911 N84-34771* #
NAS 1.26:167684 ..... 13 p1938 N84-22603* #
NAS 1.26:167685 ..... 21 p3352 N84-31261* #
NAS 1.26:167686 ..... 21 p3351 N84-31260* #
NAS 1.26:167689 ..... 24 p3860 N84-34464*
NAS 1.26:167781 ..... 17 p2777 N84-27630* #
NAS 1.26:167881 ..... 02 p0241 N84-11580* #
NAS 1.26:167890-EXEC-SUM ..... 13 p2008 N84-23021* #
NAS 1.26:167916 ..... 06 p0873 N84-15679* #
NAS 1.26:167926 ..... 05 p0631 N84-14148* #
NAS 1.26:167927 ..... 06 p0790 N84-15153* #
NAS 1.26:167973 ..... 19 p2965 N84-28789* #
NAS 1.26:167980 ..... 02 p0179 N84-11170* #
NAS 1.26:167989 ..... 01 p0042 N84-10268* #
NAS 1.26:168004 ..... 02 p0189 N84-11228* #
NAS 1.26:168005 ..... 20 p3130 N84-29875* #
NAS 1.26:168053 ..... 01 p0069 N84-10450* #
NAS 1.26:168056 ..... 01 p0089 N84-10581* #
NAS 1.26:168062 ..... 01 p0061 N84-10402* #
NAS 1.26:168063 ..... 01 p0061 N84-10403* #
NAS 1.26:168064 ..... 01 p0061 N84-10404* #
NAS 1.26:168076 ..... 02 p0212 N84-11385* #
NAS 1.26:168081 ..... 01 p0052 N84-10332* #
NAS 1.26:168112 ..... 01 p0069 N84-10451* #
NAS 1.26:168131 ..... 01 p0102 N84-10663* #
NAS 1.26:168133 ..... 09 p1274 N84-18321* #
NAS 1.26:168135 ..... 21 p3434 N84-31784* #
NAS 1.26:168139 ..... 01 p0009 N84-10054* #
NAS 1.26:168156 ..... 19 p2983 N84-28901* #
NAS 1.26:168159 ..... 02 p0241 N84-11581* #
NAS 1.26:168172 ..... 09 p1274 N84-18322* #
NAS 1.26:168176 ..... 04 p0486 N84-13193* #
NAS 1.26:168177 ..... 07 p1088 N84-17073* #
NAS 1.26:168178 ..... 04 p0617 N84-14071* #
NAS 1.26:168179 ..... 06 p0812 N84-15283* #
NAS 1.26:168181 ..... 15 p2361 N84-25162* #
NAS 1.26:168183 ..... 05 p0699 N84-14587* #
NAS 1.26:168191-VOL-1 ..... 01 p0094 N84-10613* #
NAS 1.26:168191-VOL-2 ..... 01 p0094 N84-10614* #
NAS 1.26:168193-VOL-1 ..... 03 p0343 N84-12226* #
NAS 1.26:168193-VOL-2 ..... 04 p0490 N84-13218* #
NAS 1.26:168196 ..... 04 p0524 N84-13443* #
NAS 1.26:168203 ..... 09 p1341 N84-18757* #
NAS 1.26:168205 ..... 08 p1242 N84-18117* #
NAS 1.26:168206 ..... 01 p0029 N84-10180* #
NAS 1.26:168210 ..... 19 p2998 N84-28995* #
NAS 1.26:168217 ..... 11 p1636 N84-20695* #
NAS 1.26:168218 ..... 06 p0805 N84-15247* #
NAS 1.26:168221 ..... 10 p1471 N84-19606* #
NAS 1.26:168224 ..... 02 p0189 N84-11229* #
NAS 1.26:168225 ..... 01 p0094 N84-10612* #
NAS 1.26:168227 ..... 04 p0508 N84-13332* #
NAS 1.26:168229 ..... 01 p0102 N84-10661* #
NAS 1.26:168231 ..... 07 p0991 N84-16423* #
NAS 1.26:168232 ..... 07 p0991 N84-16424* #
NAS 1.26:168233 ..... 04 p0505 N84-13310* #
NAS 1.26:168234-VOL-1 ..... 22 p3652 N84-33148* #
NAS 1.26:168234-VOL-2 ..... 22 p3652 N84-33149* #
NAS 1.26:168234-VOL-3 ..... 22 p3652 N84-33150* #
NAS 1.26:168235 ..... 06 p0852 N84-15554* #
NAS 1.26:168236 ..... 05 p0666 N84-14376* #
NAS 1.26:168237 ..... 05 p0666 N84-14377* #
NAS 1.26:168238 ..... 05 p0666 N84-14378* #
NAS 1.26:168239 ..... 04 p0557 N84-13673* #
NAS 1.26:168240 ..... 08 p1149 N84-17477* #
NAS 1.26:168242 ..... 18 p2821 N84-27909* #
NAS 1.26:168243-VOL-1 ..... 03 p0348 N84-12264* #
NAS 1.26:168243-VOL-2 ..... 03 p0348 N84-12265* #
NAS 1.26:168244 ..... 21 p3390 N84-31514* #
NAS 1.26:168247 ..... 02 p0175 N84-11152* #
NAS 1.26:168248 ..... 01 p0017 N84-10109* #
NAS 1.26:168251 ..... 03 p0355 N84-12312* #
NAS 1.26:168252 ..... 08 p1156 N84-17530* #
NAS 1.26:168253 ..... 15 p2327 N84-24973* #
NAS 1.26:168254 ..... 04 p0517 N84-13398* #
NAS 1.26:168255 ..... 22 p3676 N84-33304* #
NAS 1.26:168256 ..... 21 p3521 N84-32306* #
NAS 1.26:168257 ..... 21 p3521 N84-32307* #
NAS 1.26:168258 ..... 04 p0485 N84-13186*
NAS 1.26:168260 ..... 04 p0498 N84-13265* #
NAS 1.26:168261 ..... 10 p1450 N84-19472* #
NAS 1.26:168262 ..... 02 p0212 N84-11388* #
NAS 1.26:168263 ..... 03 p0370 N84-12411* #
NAS 1.26:168265 ..... 01 p0102 N84-10662* #
NAS 1.26:168266 ..... 03 p0343 N84-12227* #
NAS 1.26:168267-VOL-1 ..... 07 p1007 N84-16529* #
NAS 1.26:168268 ..... 15 p2361 N84-25163* #
NAS 1.26:168269 ..... 14 p2141 N84-23841* #
NAS 1.26:168270 ..... 07 p0991 N84-16426* #
NAS 1.26:168272 ..... 05 p0699 N84-14585* #
NAS 1.26:168273 ..... 08 p1149 N84-17481* #
NAS 1.26:168275 ..... 21 p3325 N84-31095* #
NAS 1.26:168276 ..... 07 p0997 N84-16463* #
NAS 1.26:168277 ..... 03 p0343 N84-12225* #
NAS 1.26:168278 ..... 04 p0485 N84-13189* #
NAS 1.26:168279 ..... 05 p0630 N84-14143* #
NAS 1.26:168280 ..... 02 p0231 N84-11513* #
NAS 1.26:168282 ..... 07 p0947 N84-16146* #
NAS 1.26:168283 ..... 04 p0531 N84-13490* #
NAS 1.26:168284 ..... 06 p0873 N84-15682* #
NAS 1.26:168286 ..... 21 p3413 N84-31641* #
NAS 1.26:168288 ..... 07 p0947 N84-16145* #
NAS 1.26:168292 ..... 09 p1406 N84-19185* #
NAS 1.26:168293 ..... 04 p0485 N84-13187* #
NAS 1.26:168294 ..... 04 p0557 N84-13672* #
NAS 1.26:168296-VOL-1 ..... 06 p0790 N84-15155* #
NAS 1.26:168296-VOL-2 ..... 06 p0790 N84-15156* #
NAS 1.26:168297 ..... 22 p3596 N84-32790* #
NAS 1.26:168298 ..... 15 p2362 N84-25169* #
NAS 1.26:168299 ..... 05 p0781 N84-14991* #
NAS 1.26:168304 ..... 05 p0679 N84-14462* #
NAS 1.26:168305 ..... 09 p1290 N84-18419* #
NAS 1.26:168306 ..... 10 p1529 N84-20014* #
NAS 1.26:168308 ..... 05 p0652 N84-14287* #
NAS 1.26:168309 ..... 11 p1673 N84-20915* #
NAS 1.26:168310 ..... 07 p0985 N84-16381* #
NAS 1.26:168317 ..... 10 p1516 N84-19927* #
NAS 1.26:168318 ..... 19 p3050 N84-29357* #
NAS 1.26:168319 ..... 21 p3433 N84-31783* #
NAS 1.26:168320 ..... 11 p1625 N84-20634* #
NAS 1.26:168321 ..... 11 p1636 N84-20699* #
NAS 1.26:168322 ..... 09 p1313 N84-18578* #
NAS 1.26:168323 ..... 06 p0789 N84-15151* #
NAS 1.26:168324 ..... 09 p1319 N84-18620* #
NAS 1.26:168326 ..... 11 p1642 N84-20737* #
NAS 1.26:168327 ..... 07 p0991 N84-16425* #
NAS 1.26:168328 ..... 07 p0963 N84-16243* #
NAS 1.26:168330 ..... 06 p0790 N84-15152* #
NAS 1.26:168331 ..... 08 p1139 N84-17410* #
NAS 1.26:168332 ..... 08 p1098 N84-17139* #
NAS 1.26:168333 ..... 09 p1289 N84-18418* #
NAS 1.26:168334 ..... 08 p1139 N84-17407* #
NAS 1.26:168335 ..... 09 p1306 N84-18536* #
NAS 1.26:168336-VOL-1 ..... 14 p2220 N84-24323* #
NAS 1.26:168336-VOL-2 ..... 14 p2220 N84-24324* #
NAS 1.26:168340 ..... 10 p1450 N84-19467* #
NAS 1.26:168347 ..... 18 p2844 N84-28059* #
NAS 1.26:170405 ..... 04 p0487 N84-13197* #
NAS 1.26:170406 ..... 05 p0633 N84-14158* #
NAS 1.26:170407 ..... 11 p1614 N84-20565* #
NAS 1.26:170408 ..... 05 p0761 N84-14990* #
NAS 1.26:170409 ..... 08 p1103 N84-17173* #
NAS 1.26:170410 ..... 08 p1103 N84-17174* #
NAS 1.26:170411 ..... 15 p2264 N84-24593* #
NAS 1.26:170412 ..... 11 p1605 N84-20512* #
NAS 1.26:170413 ..... 08 p1170 N84-17620* #
NAS 1.26:170414 ..... 18 p2793 N84-27724* #
NAS 1.26:170416 ..... 12 p1771 N84-21551* #
NAS 1.26:170482 ..... 06 p0934 N84-16071* #
NAS 1.26:170514 ..... 13 p2026 N84-23134* #
NAS 1.26:170547 ..... 06 p0934 N84-16072* #
NAS 1.26:170548 ..... 06 p0934 N84-16073* #
NAS 1.26:170550 ..... 06 p0935 N84-16074* #
NAS 1.26:170584 ..... 02 p0239 N84-11569* #
NAS 1.26:170585 ..... 02 p0277 N84-11817* #
NAS 1.26:170591 ..... 01 p0099 N84-10645* #
NAS 1.26:170593 ..... 02 p0238 N84-11559* #
NAS 1.26:170601 ..... 02 p0305 N84-12004* #
NAS 1.26:170602 ..... 02 p0305 N84-11999* #
NAS 1.26:170603 ..... 02 p0207 N84-11352* #
NAS 1.26:170604 ..... 02 p0279 N84-11829* #
NAS 1.26:170605 ..... 02 p0207 N84-11353* #
NAS 1.26:170608 ..... 02 p0213 N84-11390* #
NAS 1.26:170610 ..... 02 p0230 N84-11508* #
NAS 1.26:170611 ..... 02 p0209 N84-11361* #
NAS 1.26:170612 ..... 06 p0849 N84-15535* #
NAS 1.26:170616 ..... 16 p2581 N84-26553* #
NAS 1.26:170618 ..... 16 p2581 N84-26552* #
NAS 1.26:170619 ..... 21 p3464 N84-31960* #
NAS 1.26:170620 ..... 21 p3464 N84-31961* #
NAS 1.26:170895 ..... 01 p0029 N84-10182* #
NAS 1.26:170899 ..... 01 p0028 N84-10174* #
NAS 1.26:170901 ..... 01 p0029 N84-10181* #
NAS 1.26:170902 ..... 01 p0027 N84-10171* #
NAS 1.26:170903 ..... 08 p1170 N84-17622* #
NAS 1.26:170904 ..... 08 p1169 N84-17615* #
NAS 1.26:170907 ..... 01 p0164 N84-11077* #
NAS 1.26:170908 ..... 04 p0566 N84-13731* #
NAS 1.26:170909 ..... 04 p0566 N84-13732* #
NAS 1.26:170913 ..... 01 p0028 N84-10175* #
NAS 1.26:170914 ..... 01 p0028 N84-10176* #
NAS 1.26:170915 ..... 02 p0244 N84-11595* #

NAS 1.26:170916 ..... 02 p0190 N84-11231* #
NAS 1.26:170919 ..... 04 p0488 N84-13207* #
NAS 1.26:170920 ..... 02 p0308 N84-12021* #
NAS 1.26:170921 ..... 03 p0383 N84-12495* #
NAS 1.26:170922 ..... 03 p0346 N84-12248* #
NAS 1.26:170923 ..... 03 p0371 N84-12413* #
NAS 1.26:170934 ..... 03 p0371 N84-12415* #
NAS 1.26:170935 ..... 03 p0341 N84-12213* #
NAS 1.26:170936 ..... 03 p0355 N84-12311* #
NAS 1.26:170937 ..... 03 p0466 N84-13056* #
NAS 1.26:170939 ..... 03 p0403 N84-12634* #
NAS 1.26:170940 ..... 10 p1573 N84-20304* #
NAS 1.26:170941 ..... 06 p0941 N84-16112* #
NAS 1.26:170942 ..... 06 p0927 N84-16022* #
NAS 1.26:170943 ..... 06 p0834 N84-15428* #
NAS 1.26:170947 ..... 06 p0881 N84-15732* #
NAS 1.26:170948 ..... 06 p0938 N84-16097* #
NAS 1.26:170949 ..... 06 p0794 N84-15171* #
NAS 1.26:170950 ..... 06 p0917 N84-15959* #
NAS 1.26:170951 ..... 06 p0847 N84-15522* #
NAS 1.26:170952 ..... 06 p0847 N84-15521* #
NAS 1.26:170953 ..... 06 p0793 N84-15165* #
NAS 1.26:170957 ..... 06 p0809 N84-15267* #
NAS 1.26:170958 ..... 06 p0885 N84-15755* #
NAS 1.26:170959 ..... 07 p1079 N84-17017* #
NAS 1.26:170960 ..... 08 p1121 N84-17287* #
NAS 1.26:170961 ..... 07 p0965 N84-16251* #
NAS 1.26:170962 ..... 08 p1155 N84-17522* #
NAS 1.26:170965 ..... 09 p1364 N84-18909* #
NAS 1.26:170968 ..... 08 p1102 N84-17167* #
NAS 1.26:170969 ..... 08 p1115 N84-17249* #
NAS 1.26:170972 ..... 08 p1115 N84-17251* #
NAS 1.26:170973 ..... 08 p1102 N84-17166* #
NAS 1.26:170974 ..... 08 p1180 N84-17686* #
NAS 1.26:170976 ..... 08 p1163 N84-17574* #
NAS 1.26:170977 ..... 09 p1260 N84-18225* #
NAS 1.26:170978 ..... 08 p1246 N84-18147* #
NAS 1.26:170979 ..... 11 p1656 N84-20805* #
NAS 1.26:170980 ..... 08 p1107 N84-17196* #
NAS 1.26:170981 ..... 09 p1366 N84-18918* #
NAS 1.26:170982 ..... 09 p1256 N84-18201* #
NAS 1.26:170984 ..... 10 p1434 N84-19377* #
NAS 1.26:170985 ..... 09 p1372 N84-18960* #
NAS 1.26:170986 ..... 10 p1501 N84-19814* #
NAS 1.26:170987 ..... 10 p1438 N84-19389* #
NAS 1.26:170989 ..... 12 p1779 N84-21606* #
NAS 1.26:170990 ..... 12 p1814 N84-21827* #
NAS 1.26:170991 ..... 10 p1502 N84-19815* #
NAS 1.26:170992 ..... 11 p1652 N84-20783* #
NAS 1.26:170993 ..... 11 p1623 N84-20625* #
NAS 1.26:170994 ..... 12 p1867 N84-22168* #
NAS 1.26:170995 ..... 11 p1624 N84-20631* #
NAS 1.26:170996 ..... 10 p1438 N84-19392* #
NAS 1.26:170998 ..... 11 p1705 N84-21117* #
NAS 1.26:170999 ..... 11 p1625 N84-20635* #
NAS 1.26:171000 ..... 11 p1625 N84-20636* #
NAS 1.26:171001 ..... 11 p1625 N84-20637* #
NAS 1.26:171002 ..... 11 p1625 N84-20638* #
NAS 1.26:171003 ..... 13 p2039 N84-23234* #
NAS 1.26:171004 ..... 13 p1939 N84-22607* #
NAS 1.26:171005 ..... 13 p1988 N84-22908* #
NAS 1.26:171008 ..... 13 p1997 N84-22960* #
NAS 1.26:171012 ..... 13 p1963 N84-22752* #
NAS 1.26:171013 ..... 13 p1938 N84-22602* #
NAS 1.26:171014 ..... 13 p1940 N84-22614* #
NAS 1.26:171016 ..... 13 p1940 N84-22613* #
NAS 1.26:171017 ..... 15 p2335 N84-25018* #
NAS 1.26:171023 ..... 15 p2370 N84-25217* #
NAS 1.26:171025 ..... 15 p2389 N84-25334* #
NAS 1.26:171026 ..... 15 p2389 N84-25335* #
NAS 1.26:171027 ..... 16 p2457 N84-25752* #
NAS 1.26:171028 ..... 15 p2281 N84-24699* #
NAS 1.26:171029 ..... 15 p2371 N84-25222* #
NAS 1.26:171030 ..... 14 p2127 N84-23752* #
NAS 1.26:171031 ..... 15 p2368 N84-25205* #
NAS 1.26:171032 ..... 15 p2367 N84-25204* #
NAS 1.26:171034 ..... 15 p2286 N84-24716* #
NAS 1.26:171035 ..... 15 p2428 N84-25584* #
NAS 1.26:171038 ..... 15 p2412 N84-25481* #
NAS 1.26:171039 ..... 15 p2340 N84-25046* #
NAS 1.26:171048 ..... 19 p2997 N84-28993* #
NAS 1.26:171051 ..... 19 p3001 N84-29018* #
NAS 1.26:171066 ..... 19 p3012 N84-29092* #
NAS 1.26:171076 ..... 19 p3020 N84-29147* #
NAS 1.26:171078 ..... 19 p3021 N84-29153* #
NAS 1.26:171080 ..... 19 p3053 N84-29374* #
NAS 1.26:171090 ..... 19 p2980 N84-28887* #
NAS 1.26:171084 ..... 19 p2983 N84-28900* #
NAS 1.26:171099 ..... 19 p3026 N84-29194* #
NAS 1.26:171100 ..... 19 p3012 N84-29093* #
NAS 1.26:171108 ..... 21 p3504 N84-32202* #
NAS 1.26:171109 ..... 21 p3446 N84-31863* #
NAS 1.26:171113 ..... 21 p3430 N84-31763* #
NAS 1.26:171114 ..... 21 p3398 N84-31553* #
NAS 1.26:171115 ..... 21 p3398 N84-31552* #
NAS 1.26:171116 ..... 21 p3442 N84-31836* #
NAS 1.26:171117 ..... 21 p3442 N84-31835* #
NAS 1.26:171118 ..... 20 p3201 N84-30334* #
NAS 1.26:171119 ..... 20 p3234 N84-30529* #
NAS 1.26:171120 ..... 21 p3460 N84-31944* #
NAS 1.26:171121 ..... 21 p3352 N84-31266* #
NAS 1.26:171122 ..... 21 p3404 N84-31594* #
NAS 1.26:171123 ..... 20 p3134 N84-29902* #
NAS 1.26:171124 ..... 21 p3346 N84-31225* #
NAS 1.26:171125 ..... 22 p3597 N84-32781* #
NAS 1.26:171126 ..... 22 p3597 N84-32780* #
NAS 1.26:171127 ..... 21 p3442 N84-31837* #
NAS 1.26:171128 ..... 22 p3622 N84-32949* #
NAS 1.26:171129 ..... 21 p3464 N84-31958* #
NAS 1.26:171130 ..... 21 p3382 N84-31459* #
NAS 1.26:171132 ..... 21 p3351 N84-31258* #
NAS 1.26:171133 ..... 21 p3498 N84-32166* #
NAS 1.26:171136 ..... 22 p3643 N84-33097* #
NAS 1.26:171137 ..... 21 p3354 N84-31273* #
NAS 1.26:171138 ..... 21 p3465 N84-31966* #
NAS 1.26:171140 ..... 21 p3523 N84-32317* #
NAS 1.26:171142 ..... 21 p3405 N84-31598* #
NAS 1.26:171143 ..... 21 p3405 N84-31599* #
NAS 1.26:171144 ..... 23 p3718 N84-33566* #
NAS 1.26:171147 ..... 23 p3756 N84-33811* #
NAS 1.26:171148 ..... 23 p3698 N84-33432* #
NAS 1.26:171152 ..... 23 p3750 N84-33773* #
NAS 1.26:171153 ..... 23 p3698 N84-33433* #
NAS 1.26:171156 ..... 23 p3698 N84-33434* #
NAS 1.26:171157 ..... 23 p3827 N84-34275* #
NAS 1.26:171158 ..... 24 p3858 N84-34457* #
NAS 1.26:171162 ..... 23 p3756 N84-33810* #
NAS 1.26:171163 ..... 23 p3838 N84-34351* #
NAS 1.26:171696 ..... 03 p0392 N84-12557* #
NAS 1.26:171702 ..... 01 p0099 N84-10643* #
NAS 1.26:171703 ..... 01 p0099 N84-10646* #
NAS 1.26:171704 ..... 01 p0100 N84-10647* #
NAS 1.26:171710 ..... 02 p0308 N84-12018* #
NAS 1.26:171712 ..... 02 p0205 N84-11335* #
NAS 1.26:171713 ..... 02 p0202 N84-11319* #
NAS 1.26:171714 ..... 02 p0202 N84-11318* #
NAS 1.26:171715 ..... 04 p0552 N84-13635* #
NAS 1.26:171717 ..... 03 p0417 N84-12725* #
NAS 1.26:171718 ..... 02 p0183 N84-11188* #
NAS 1.26:171724 ..... 06 p0794 N84-15174* #
NAS 1.26:171725 ..... 06 p0794 N84-15175* #
NAS 1.26:171726 ..... 06 p0794 N84-15176* #
NAS 1.26:171727 ..... 06 p0794 N84-15177* #
NAS 1.26:171728 ..... 08 p1142 N84-17431* #
NAS 1.26:171729 ..... 10 p1520 N84-19953* #
NAS 1.26:171730 ..... 08 p1155 N84-17523* #
NAS 1.26:171731 ..... 10 p1521 N84-19958* #
NAS 1.26:171732 ..... 22 p3541 N84-32416* #
NAS 1.26:171733 ..... 08 p1157 N84-17531* #
NAS 1.26:171734 ..... 07 p0991 N84-16421* #
NAS 1.26:171735 ..... 08 p1161 N84-17556* #
NAS 1.26:171736 ..... 08 p1143 N84-17434* #
NAS 1.26:171738 ..... 08 p1143 N84-17435* #
NAS 1.26:171739 ..... 08 p1161 N84-17559* #
NAS 1.26:171740 ..... 08 p1114 N84-17244* #
NAS 1.26:171741 ..... 08 p1114 N84-17245* #
NAS 1.26:171742 ..... 08 p1114 N84-17246* #
NAS 1.26:171745 ..... 08 p1199 N84-17820* #
NAS 1.26:171746 ..... 08 p1200 N84-17821* #
NAS 1.26:171748 ..... 09 p1366 N84-18919* #
NAS 1.26:171749 ..... 09 p1360 N84-18886* #
NAS 1.26:171755 ..... 09 p1317 N84-18607* #
NAS 1.26:171756 ..... 09 p1372 N84-18958* #
NAS 1.26:171758 ..... 12 p1829 N84-21927* #
NAS 1.26:171759 ..... 11 p1656 N84-20806* #
NAS 1.26:171760 ..... 10 p1553 N84-20177* #
NAS 1.26:171761 ..... 11 p1622 N84-20618* #
NAS 1.26:171762 ..... 11 p1622 N84-20619*
NAS 1.26:171764 ..... 11 p1623 N84-20622* #
NAS 1.26:171765 ..... 11 p1623 N84-20623* #
NAS 1.26:171766 ..... 11 p1623 N84-20624* #
NAS 1.26:171767 ..... 12 p1829 N84-21926* #
NAS 1.26:171768 ..... 12 p1829 N84-21925* #
NAS 1.26:171771 ..... 11 p1758 N84-21477* #
NAS 1.26:171772 ..... 11 p1758 N84-21476* #
NAS 1.26:171774 ..... 12 p1777 N84-21597* #
NAS 1.26:171775 ..... 11 p1622 N84-20617* #
NAS 1.26:171777 ..... 13 p1937 N84-22598* #
NAS 1.26:171780 ..... 13 p2009 N84-23028* #
NAS 1.26:171781 ..... 16 p2508 N84-26098* #
NAS 1.26:171783 ..... 04 p0557 N84-13671* #
NAS 1.26:171785 ..... 16 p2509 N84-26099* #
NAS 1.26:171786 ..... 16 p2535 N84-26275* #
NAS 1.26:171789 ..... 16 p2495 N84-26008* #
NAS 1.26:171790 ..... 17 p2709 N84-27252* #
NAS 1.26:171791 ..... 17 p2710 N84-27253* #
NAS 1.26:171792 ..... 17 p2710 N84-27254* #
NAS 1.26:171794 ..... 17 p2710 N84-27255* #
NAS 1.26:171795 ..... 22 p3541 N84-32414* #
NAS 1.26:171799 ..... 19 p3121 N84-29841* #
NAS 1.26:171802 ..... 19 p3063 N84-29433* #
NAS 1.26:171804 ..... 22 p3576 N84-32650* #

NAS 1.26:171805 ..... 22 p3559 N84-32535* #
NAS 1.26:171806 ..... 22 p3633 N84-33023* #
NAS 1.26:171807 ..... 22 p3541 N84-32415* #
NAS 1.26:171808 ..... 22 p3585 N84-32707* #
NAS 1.26:171809 ..... 22 p3599 N84-32791* #
NAS 1.26:171814 ..... 24 p3859 N84-34461* #
NAS 1.26:172142 ..... 04 p0489 N84-13212* #
NAS 1.26:172146 ..... 09 p1371 N84-18953* #
NAS 1.26:172159 ..... 01 p0118 N84-10765* #
NAS 1.26:172160 ..... 04 p0574 N84-13781* #
NAS 1.26:172181 ..... 01 p0100 N84-10648* #
NAS 1.26:172182 ..... 02 p0287 N84-11884* #
NAS 1.26:172199 ..... 02 p0176 N84-11156* #
NAS 1.26:172200 ..... 04 p0479 N84-13153* #
NAS 1.26:172211 ..... 20 p3146 N84-29978* #
NAS 1.26:172212 ..... 01 p0120 N84-10779* #
NAS 1.26:172213 ..... 01 p0120 N84-10780* #
NAS 1.26:172214 ..... 02 p0271 N84-11773* #
NAS 1.26:172215 ..... 03 p0388 N84-12528* #
NAS 1.26:172216 ..... 01 p0076 N84-10499* #
NAS 1.26:172217 ..... 01 p0003 N84-10022* #
NAS 1.26:172218 ..... 01 p0128 N84-10836* #
NAS 1.26:172219 ..... 01 p0127 N84-10831* #
NAS 1.26:172223 ..... 01 p0018 N84-10114* #
NAS 1.26:172225 ..... 04 p0547 N84-13607* #
NAS 1.26:172226 ..... 01 p0119 N84-10769* #
NAS 1.26:172227 ..... 08 p1161 N84-17558* #
NAS 1.26:172233 ..... 01 p0002 N84-10017* #
NAS 1.26:172237 ..... 02 p0199 N84-11294* #
NAS 1.26:172238 ..... 22 p3581 N84-32677* #
NAS 1.26:172239 ..... 06 p0782 N84-15123* #
NAS 1.26:172240 ..... 01 p0077 N84-10501* #
NAS 1.26:172241 ..... 01 p0128 N84-10837* #
NAS 1.26:172243 ..... 03 p0338 N84-12192* #
NAS 1.26:172246 ..... 04 p0491 N84-13223* #
NAS 1.26:172247 ..... 12 p1780 N84-21610* #
NAS 1.26:172248 ..... 02 p0280 N84-11832* #
NAS 1.26:172250 ..... 03 p0424 N84-12777* #
NAS 1.26:172251 ..... 04 p0531 N84-13492* #
NAS 1.26:172252 ..... 03 p0420 N84-12742* #
NAS 1.26:172253 ..... 04 p0515 N84-13380* #
NAS 1.26:172254 ..... 03 p0425 N84-12778* #
NAS 1.26:172255 ..... 04 p0548 N84-13609* #
NAS 1.26:172256 ..... 07 p1002 N84-16495* #
NAS 1.26:172257 ..... 02 p0184 N84-11197* #
NAS 1.26:172258 ..... 07 p0952 N84-16177* #
NAS 1.26:172259 ..... 09 p1329 N84-18679* #
NAS 1.26:172260 ..... 09 p1330 N84-18682* #
NAS 1.26:172261 ..... 09 p1330 N84-18681* #
NAS 1.26:172262 ..... 07 p1053 N84-16821* #
NAS 1.26:172264 ..... 05 p0627 N84-14123* #
NAS 1.26:172267 ..... 06 p0895 N84-15811* #
NAS 1.26:172269 ..... 04 p0491 N84-13221* #
NAS 1.26:172270 ..... 04 p0491 N84-13222* #
NAS 1.26:172272 ..... 07 p1015 N84-16586* #
NAS 1.26:172273 ..... 06 p0908 N84-15896* #
NAS 1.26:172274 ..... 06 p0908 N84-15897* #
NAS 1.26:172275 ..... 04 p0531 N84-13493* #
NAS 1.26:172276 ..... 08 p1231 N84-18047* #
NAS 1.26:172279 ..... 06 p0809 N84-15268* #
NAS 1.26:172282 ..... 18 p2795 N84-27734* #
NAS 1.26:172284 ..... 10 p1491 N84-19747* #
NAS 1.26:172285 ..... 12 p1789 N84-21668* #
NAS 1.26:172286 ..... 15 p2395 N84-25366* #
NAS 1.26:172287 ..... 07 p0946 N84-16140* #
NAS 1.26:172289 ..... 08 p1211 N84-17899* #
NAS 1.26:172290 ..... 07 p1068 N84-16935* #
NAS 1.26:172291 ..... 08 p1097 N84-17136* #
NAS 1.26:172292 ..... 08 p1227 N84-18017* #
NAS 1.26:172293 ..... 08 p1170 N84-17621* #
NAS 1.26:172294 ..... 08 p1095 N84-17119* #
NAS 1.26:172295 ..... 08 p1095 N84-17118* #
NAS 1.26:172296 ..... 10 p1452 N84-19479* #
NAS 1.26:172297 ..... 10 p1419 N84-19282* #
NAS 1.26:172298 ..... 09 p1313 N84-18577* #
NAS 1.26:172300 ..... 10 p1420 N84-19285* #
NAS 1.26:172301 ..... 10 p1568 N84-20273* #
NAS 1.26:172302 ..... 10 p1568 N84-20274* #
NAS 1.26:172304 ..... 10 p1556 N84-20195* #
NAS 1.26:172305 ..... 10 p1568 N84-20275* #
NAS 1.26:172306 ..... 10 p1420 N84-19286* #
NAS 1.26:172307 ..... 11 p1668 N84-20679* #
NAS 1.26:172308 ..... 10 p1516 N84-19928* #
NAS 1.26:172309 ..... 10 p1516 N84-19926* #
NAS 1.26:172310 ..... 13 p1926 N84-22537* #
NAS 1.26:172311 ..... 16 p2539 N84-26298* #
NAS 1.26:172313 ..... 16 p2448 N84-25702* #
NAS 1.26:172314 ..... 11 p1622 N84-20616* #
NAS 1.26:172315 ..... 12 p1766 N84-21516* #
NAS 1.26:172318 ..... 14 p2175 N84-24029* #
NAS 1.26:172319 ..... 11 p1712 N84-21165* #
NAS 1.26:172321 ..... 14 p2104 N84-23621* #
NAS 1.26:172322 ..... 22 p3536 N84-32387* #
NAS 1.26:172323 ..... 17 p2618 N84-26754* #
NAS 1.26:172324 ..... 12 p1771 N84-21553* #
NAS 1.26:172325 ..... 14 p2158 N84-23926* #
NAS 1.26:172326 ..... 12 p1876 N84-22226* #
NAS 1.26:172328 ..... 13 p1926 N84-22534* #
NAS 1.26:172331 ..... 12 p1893 N84-22327* #
NAS 1.26:172332 ..... 13 p1934 N84-22583* #
NAS 1.26:172334 ..... 12 p1826 N84-21902* #
NAS 1.26:172335 ..... 14 p2101 N84-23606* #
NAS 1.26:172336 ..... 16 p2448 N84-25701* #
NAS 1.26:172338 ..... 17 p2604 N84-26685* #
NAS 1.26:172339 ..... 15 p2259 N84-24567* #
NAS 1.26:172340 ..... 12 p1897 N84-22353* #
NAS 1.26:172343 ..... 16 p2464 N84-25794* #
NAS 1.26:172344 ..... 21 p3356 N84-31267* #
NAS 1.26:172348 ..... 16 p2552 N84-26373* #
NAS 1.26:172349 ..... 18 p2802 N84-27786* #
NAS 1.26:172350 ..... 20 p3134 N84-29901* #
NAS 1.26:172351 ..... 10 p1419 N84-19284* #
NAS 1.26:172352 ..... 19 p2968 N84-28807* #
NAS 1.26:172353 ..... 17 p2667 N84-27004* #
NAS 1.26:172357 ..... 20 p3290 N84-30888* #
NAS 1.26:172361 ..... 18 p2792 N84-27719* #
NAS 1.26:172362 ..... 22 p3540 N84-32410* #
NAS 1.26:172363 ..... 18 p2785 N84-27678* #
NAS 1.26:172364 ..... 19 p2982 N84-28899* #
NAS 1.26:172365 ..... 19 p3021 N84-29159* #
NAS 1.26:172367 ..... 19 p3035 N84-29251* #
NAS 1.26:172368 ..... 19 p3020 N84-29152* #
NAS 1.26:172370 ..... 19 p3021 N84-29158* #
NAS 1.26:172371 ..... 21 p3364 N84-31343* #
NAS 1.26:172372 ..... 19 p3082 N84-29557* #
NAS 1.26:172373 ..... 19 p3082 N84-29559* #
NAS 1.26:172374 ..... 19 p2958 N84-28748* #
NAS 1.26:172375 ..... 18 p2917 N84-28494* #
NAS 1.26:172378 ..... 19 p3074 N84-29502* #
NAS 1.26:172379 ..... 19 p3082 N84-29558* #
NAS 1.26:172380 ..... 19 p3082 N84-29560* #
NAS 1.26:172381 ..... 21 p3490 N84-32119* #
NAS 1.26:172382 ..... 19 p3074 N84-29503* #
NAS 1.26:172384 ..... 22 p3652 N84-33147* #
NAS 1.26:172386 ..... 20 p3290 N84-30886* #
NAS 1.26:172388 ..... 19 p3095 N84-29655* #
NAS 1.26:172389 ..... 19 p3082 N84-29562* #
NAS 1.26:172392 ..... 21 p3365 N84-31346* #
NAS 1.26:172393 ..... 22 p3597 N84-32784* #
NAS 1.26:172394 ..... 22 p3542 N84-32423* #
NAS 1.26:172395 ..... 20 p3279 N84-30816* #
NAS 1.26:172396 ..... 20 p3279 N84-30817* #
NAS 1.26:172397 ..... 20 p3280 N84-30818* #
NAS 1.26:172398 ..... 20 p3126 N84-29852* #
NAS 1.26:172399 ..... 20 p3277 N84-30800* #
NAS 1.26:172409 ..... 21 p3507 N84-32221* #
NAS 1.26:172411 ..... 20 p3135 N84-29903* #
NAS 1.26:172412 ..... 21 p3382 N84-31463* #
NAS 1.26:172413 ..... 21 p3382 N84-31462* #
NAS 1.26:172414 ..... 21 p3464 N84-31959* #
NAS 1.26:172415 ..... 21 p3470 N84-31993* #
NAS 1.26:172416 ..... 22 p3530 N84-32349* #
NAS 1.26:172417 ..... 22 p3645 N84-33107* #
NAS 1.26:172418 ..... 21 p3469 N84-31988* #
NAS 1.26:172421 ..... 22 p3633 N84-33024* #
NAS 1.26:172426 ..... 23 p3692 N84-33396* #
NAS 1.26:172427 ..... 21 p3491 N84-32120* #
NAS 1.26:172429 ..... 22 p3657 N84-33181* #
NAS 1.26:172430 ..... 22 p3538 N84-32397* #
NAS 1.26:172431 ..... 22 p3637 N84-33053* #
NAS 1.26:172432 ..... 22 p3645 N84-33113* #
NAS 1.26:172433 ..... 22 p3645 N84-33111* #
NAS 1.26:172434 ..... 22 p3645 N84-33112* #
NAS 1.26:172435 ..... 22 p3645 N84-33108* #
NAS 1.26:172436 ..... 22 p3637 N84-33059* #
NAS 1.26:172437 ..... 21 p3443 N84-31847* #
NAS 1.26:172442 ..... 23 p3724 N84-33596* #
NAS 1.26:172507 ..... 16 p2506 N84-26082* #
NAS 1.26:172787 ..... 09 p1267 N84-18276* #
NAS 1.26:172789 ..... 08 p1234 N84-18067* #
NAS 1.26:172790 ..... 08 p1246 N84-18142* #
NAS 1.26:172791 ..... 08 p1115 N84-17252* #
NAS 1.26:172792 ..... 09 p1269 N84-18292* #
NAS 1.26:172795 ..... 14 p2167 N84-23979* #
NAS 1.26:172796 ..... 14 p2167 N84-23980* #
NAS 1.26:172797 ..... 14 p2167 N84-23981* #
NAS 1.26:172798 ..... 14 p2168 N84-23982* #
NAS 1.26:172799 ..... 14 p2168 N84-23983* #
NAS 1.26:172800 ..... 14 p2168 N84-23984* #
NAS 1.26:172801 ..... 15 p2355 N84-25128* #
NAS 1.26:172802 ..... 14 p2168 N84-23985* #
NAS 1.26:172803 ..... 14 p2168 N84-23986* #
NAS 1.26:172804 ..... 15 p2429 N84-25588* #
NAS 1.26:172805 ..... 15 p2357 N84-25140* #
NAS 1.26:172806 ..... 16 p2506 N84-26081* #
NAS 1.26:172808 ..... 16 p2506 N84-26083* #
NAS 1.26:172809 ..... 16 p2506 N84-26084* #
NAS 1.26:172810 ..... 16 p2506 N84-26085* #
NAS 1.26:172811 ..... 16 p2506 N84-26086* #
NAS 1.26:172812 ..... 16 p2506 N84-26087* #
NAS 1.26:172813 ..... 16 p2507 N84-26088* #
NAS 1.26:172814 ..... 16 p2507 N84-26089* #

NAS 1.26:172815 ..... 16 p2507 N84-26090* #
NAS 1.26:172816 ..... 16 p2507 N84-26091* #
NAS 1.26:172817 ..... 16 p2507 N84-26092* #
NAS 1.26:173077 ..... 03 p0359 N84-12336* #
NAS 1.26:173136 ..... 06 p0864 N84-15627* #
NAS 1.26:173138 ..... 06 p0864 N84-15628* #
NAS 1.26:173139 ..... 07 p1057 N84-16848* #
NAS 1.26:173140 ..... 06 p0864 N84-15629* #
NAS 1.26:173141 ..... 06 p0864 N84-15630* #
NAS 1.26:173142 ..... 06 p0864 N84-15631* #
NAS 1.26:173143 ..... 07 p1034 N84-16707* #
NAS 1.26:173144 ..... 06 p0865 N84-15633* #
NAS 1.26:173145 ..... 07 p0997 N84-16460* #
NAS 1.26:173146 ..... 07 p1026 N84-16663* #
NAS 1.26:173147 ..... 07 p1036 N84-16721* #
NAS 1.26:173148 ..... 07 p1079 N84-17013* #
NAS 1.26:173149 ..... 07 p1000 N84-16486* #
NAS 1.26:173150 ..... 07 p1092 N84-17103* #
NAS 1.26:173152 ..... 07 p0992 N84-16430* #
NAS 1.26:173153 ..... 07 p1093 N84-17111* #
NAS 1.26:173154 ..... 08 p1133 N84-17369* #
NAS 1.26:173155 ..... 08 p1143 N84-17437* #
NAS 1.26:173157 ..... 07 p1026 N84-16645* #
NAS 1.26:173159 ..... 08 p1136 N84-17388* #
NAS 1.26:173161 ..... 08 p1222 N84-17977* #
NAS 1.26:173162 ..... 08 p1136 N84-17384* #
NAS 1.26:173164 ..... 09 p1363 N84-18902* #
NAS 1.26:173165 ..... 09 p1316 N84-18600* #
NAS 1.26:173166 ..... 09 p1377 N84-18997* #
NAS 1.26:173167 ..... 09 p1277 N84-18341* #
NAS 1.26:173171 ..... 07 p0986 N84-16388* #
NAS 1.26:173172 ..... 07 p1006 N84-16525* #
NAS 1.26:173173 ..... 12 p1805 N84-21767* #
NAS 1.26:173174 ..... 12 p1805 N84-21768* #
NAS 1.26:173175 ..... 07 p1069 N84-16941* #
NAS 1.26:173176 ..... 07 p1009 N84-16543* #
NAS 1.26:173177 ..... 07 p1050 N84-16804* #
NAS 1.26:173179 ..... 07 p0953 N84-16180* #
NAS 1.26:173180 ..... 07 p1060 N84-16870* #
NAS 1.26:173181 ..... 07 p0951 N84-16167* #
NAS 1.26:173182 ..... 07 p0962 N84-16233* #
NAS 1.26:173183 ..... 07 p1071 N84-16954* #
NAS 1.26:173184 ..... 07 p0943 N84-16115* #
NAS 1.26:173186 ..... 07 p0987 N84-16390* #
NAS 1.26:173187 ..... 07 p1069 N84-16942* #
NAS 1.26:173188 ..... 07 p1058 N84-16855* #
NAS 1.26:173189 ..... 07 p1035 N84-16711* #
NAS 1.26:173190 ..... 07 p1025 N84-16640* #
NAS 1.26:173191 ..... 07 p1025 N84-16641* #
NAS 1.26:173192 ..... 07 p1091 N84-17096* #
NAS 1.26:173193 ..... 07 p1091 N84-17097* #
NAS 1.26:173194 ..... 07 p1091 N84-17098* #
NAS 1.26:173195 ..... 07 p1091 N84-17099* #
NAS 1.26:173196 ..... 07 p1040 N84-16745* #
NAS 1.26:173197 ..... 07 p1091 N84-17091* #
NAS 1.26:173198 ..... 07 p1075 N84-16985* #
NAS 1.26:173199 ..... 07 p1060 N84-16872* #
NAS 1.26:173200 ..... 07 p1007 N84-16528* #
NAS 1.26:173201 ..... 07 p0992 N84-16429* #
NAS 1.26:173202 ..... 07 p1047 N84-16791* #
NAS 1.26:173203 ..... 07 p1025 N84-16644* #
NAS 1.26:173204 ..... 07 p1040 N84-16744* #
NAS 1.26:173205 ..... 07 p1025 N84-16643* #
NAS 1.26:173206 ..... 07 p1054 N84-16823* #
NAS 1.26:173207 ..... 07 p1058 N84-16856* #
NAS 1.26:173208 ..... 07 p1033 N84-16704* #
NAS 1.26:173209 ..... 07 p0992 N84-16428* #
NAS 1.26:173210 ..... 07 p1027 N84-16656* #
NAS 1.26:173211 ..... 07 p1033 N84-16703* #
NAS 1.26:173212 ..... 07 p1025 N84-16642* #
NAS 1.26:173213 ..... 07 p0961 N84-16227* #
NAS 1.26:173214 ..... 07 p0978 N84-16337* #
NAS 1.26:173215 ..... 07 p1012 N84-16585* #
NAS 1.26:173216 ..... 07 p1091 N84-17092* #
NAS 1.26:173217 ..... 08 p1223 N84-17988* #
NAS 1.26:173218 ..... 07 p1020 N84-16615* #
NAS 1.26:173219 ..... 07 p1020 N84-16616* #
NAS 1.26:173220 ..... 07 p1020 N84-16617* #
NAS 1.26:173221 ..... 07 p1020 N84-16618* #
NAS 1.26:173222 ..... 07 p1020 N84-16619* #
NAS 1.26:173223 ..... 17 p2709 N84-27247* #
NAS 1.26:173224 ..... 07 p1021 N84-16621* #
NAS 1.26:173225 ..... 07 p1021 N84-16622* #
NAS 1.26:173226 ..... 07 p1021 N84-16623* #
NAS 1.26:173227 ..... 07 p1021 N84-16624* #
NAS 1.26:173228 ..... 07 p1021 N84-16625* #
NAS 1.26:173229 ..... 07 p1022 N84-16626* #
NAS 1.26:173230 ..... 07 p1022 N84-16627* #
NAS 1.26:173231 ..... 08 p1173 N84-17641* #
NAS 1.26:173232 ..... 07 p1022 N84-16628* #
NAS 1.26:173235 ..... 16 p2508 N84-26093* #
NAS 1.26:173236 ..... 16 p2508 N84-26094* #
NAS 1.26:173237 ..... 16 p2508 N84-26095* #
NAS 1.26:173238 ..... 16 p2508 N84-26096* #
NAS 1.26:173239 ..... 16 p2508 N84-26097* #
NAS 1.26:173240 ..... 07 p1090 N84-17086* #
NAS 1.26:173241 ..... 07 p1059 N84-16858* #
NAS 1.26:173242 ..... 07 p1028 N84-16664* #
NAS 1.26:173243 ..... 09 p1288 N84-18411* #
NAS 1.26:173244 ..... 07 p1015 N84-16583* #
NAS 1.26:173245 ..... 07 p0996 N84-16457* #
NAS 1.26:173246 ..... 07 p1091 N84-17093* #
NAS 1.26:173247 ..... 07 p0996 N84-16459* #
NAS 1.26:173248 ..... 07 p0967 N84-16265* #
NAS 1.26:173249 ..... 07 p0996 N84-16458* #
NAS 1.26:173250 ..... 07 p1022 N84-16631* #
NAS 1.26:173251 ..... 07 p1061 N84-16876* #
NAS 1.26:173252 ..... 07 p1058 N84-16854* #
NAS 1.26:173254 ..... 07 p1058 N84-16857* #
NAS 1.26:173255 ..... 07 p1092 N84-17101* #
NAS 1.26:173257 ..... 09 p1393 N84-19096* #
NAS 1.26:173259 ..... 08 p1122 N84-17293* #
NAS 1.26:173261 ..... 10 p1529 N84-20013* #
NAS 1.26:173262 ..... 10 p1433 N84-19368* #
NAS 1.26:173263 ..... 10 p1473 N84-19821* #
NAS 1.26:173264 ..... 10 p1543 N84-20113* #
NAS 1.26:173265 ..... 10 p1587 N84-20401* #
NAS 1.26:173266 ..... 07 p1075 N84-16991* #
NAS 1.26:173267 ..... 07 p1079 N84-17014* #
NAS 1.26:173269 ..... 07 p1089 N84-17083* #
NAS 1.26:173270 ..... 07 p1059 N84-16859* #
NAS 1.26:173271 ..... 07 p1069 N84-16945* #
NAS 1.26:173272 ..... 07 p1088 N84-17075* #
NAS 1.26:173273 ..... 07 p1012 N84-16562* #
NAS 1.26:173274 ..... 07 p1035 N84-16717* #
NAS 1.26:173275 ..... 07 p0978 N84-16335* #
NAS 1.26:173276 ..... 07 p0946 N84-16135* #
NAS 1.26:173278 ..... 08 p1245 N84-18138* #
NAS 1.26:173279 ..... 08 p1136 N84-17389* #
NAS 1.26:173281 ..... 08 p1182 N84-17697* #
NAS 1.26:173282 ..... 08 p1157 N84-17532* #
NAS 1.26:173283 ..... 08 p1164 N84-17576* #
NAS 1.26:173284 ..... 08 p1143 N84-17436* #
NAS 1.26:173285 ..... 08 p1185 N84-17723* #
NAS 1.26:173286 ..... 13 p2000 N84-22975* #
NAS 1.26:173287 ..... 09 p1361 N84-18889* #
NAS 1.26:173289 ..... 08 p1186 N84-17729* #
NAS 1.26:173290 ..... 08 p1169 N84-17617* #
NAS 1.26:173291 ..... 08 p1169 N84-17618* #
NAS 1.26:173292 ..... 08 p1170 N84-17619* #
NAS 1.26:173293 ..... 08 p1122 N84-17292* #
NAS 1.26:173294 ..... 08 p1098 N84-17140* #
NAS 1.26:173295 ..... 08 p1107 N84-17195* #
NAS 1.26:173296 ..... 08 p1205 N84-17858* #
NAS 1.26:173297 ..... 08 p1205 N84-17859* #
NAS 1.26:173299 ..... 08 p1204 N84-17852* #
NAS 1.26:173300 ..... 08 p1237 N84-18086* #
NAS 1.26:173303 ..... 08 p1186 N84-17730* #
NAS 1.26:173304 ..... 08 p1173 N84-17642* #
NAS 1.26:173305 ..... 09 p1312 N84-18575* #
NAS 1.26:173306 ..... 09 p1260 N84-18226* #
NAS 1.26:173307 ..... 09 p1277 N84-18340* #
NAS 1.26:173308 ..... 09 p1257 N84-18207* #
NAS 1.26:173309 ..... 08 p1155 N84-17521* #
NAS 1.26:173310 ..... 08 p1185 N84-17722* #
NAS 1.26:173311 ..... 09 p1413 N84-19240* #
NAS 1.26:173312 ..... 09 p1270 N84-18296* #
NAS 1.26:173313 ..... 09 p1270 N84-18297* #
NAS 1.26:173314 ..... 09 p1270 N84-18298* #
NAS 1.26:173315 ..... 09 p1270 N84-18299* #
NAS 1.26:173316 ..... 09 p1270 N84-18300* #
NAS 1.26:173317 ..... 09 p1271 N84-18301* #
NAS 1.26:173318 ..... 09 p1271 N84-18302* #
NAS 1.26:173319 ..... 09 p1271 N84-18303* #
NAS 1.26:173320 ..... 09 p1271 N84-18304* #
NAS 1.26:173321 ..... 09 p1267 N84-18273* #
NAS 1.26:173322 ..... 09 p1290 N84-18420* #
NAS 1.26:173323 ..... 09 p1336 N84-18726* #
NAS 1.26:173324 ..... 09 p1252 N84-18171* #
NAS 1.26:173325 ..... 09 p1336 N84-18725* #
NAS 1.26:173326 ..... 09 p1275 N84-18326* #
NAS 1.26:173327 ..... 09 p1267 N84-18274* #
NAS 1.26:173328 ..... 09 p1267 N84-18271* #
NAS 1.26:173329 ..... 09 p1269 N84-18291* #
NAS 1.26:173330 ..... 09 p1269 N84-18290* #
NAS 1.26:173331 ..... 09 p1268 N84-18268* #
NAS 1.26:173332 ..... 09 p1266 N84-18267* #
NAS 1.26:173333 ..... 09 p1266 N84-18266* #
NAS 1.26:173334 ..... 09 p1266 N84-18265* #
NAS 1.26:173335 ..... 09 p1267 N84-18269* #
NAS 1.26:173336 ..... 09 p1270 N84-18294* #
NAS 1.26:173337 ..... 09 p1270 N84-18293* #
NAS 1.26:173338 ..... 09 p1329 N84-18680* #
NAS 1.26:173339 ..... 09 p1360 N84-18885* #
NAS 1.26:173340 ..... 09 p1417 N84-19272* #
NAS 1.26:173343 ..... 10 p1485 N84-19709* #
NAS 1.26:173345 ..... 09 p1267 N84-18275* #
NAS 1.26:173346 ..... 12 p1828 N84-21917* #
NAS 1.26:173353 ..... 10 p1558 N84-20207* #
NAS 1.26:173354 ..... 10 p1497 N84-19784* #
NAS 1.26:173356 ..... 09 p1372 N84-18959* #
NAS 1.26:173357 ..... 09 p1341 N84-18758* #

NAS 1.26:173358 ..... 09 p1341 N84-18759* #
NAS 1.26:173359 ..... 09 p1415 N84-19260* #
NAS 1.26:173360 ..... 09 p1256 N84-18202* #
NAS 1.26:173361 ..... 10 p1597 N84-20464* #
NAS 1.26:173362 ..... 09 p1344 N84-18782* #
NAS 1.26:173363 ..... 09 p1360 N84-18888* #
NAS 1.26:173364 ..... 09 p1287 N84-18401* #
NAS 1.26:173365 ..... 09 p1360 N84-18887* #
NAS 1.26:173366 ..... 10 p1597 N84-20465* #
NAS 1.26:173367 ..... 13 p2004 N84-23000* #
NAS 1.26:173368 ..... 12 p1828 N84-21918* #
NAS 1.26:173369 ..... 13 p2004 N84-23003* #
NAS 1.26:173370 ..... 12 p1828 N84-21919* #
NAS 1.26:173371 ..... 12 p1828 N84-21920* #
NAS 1.26:173372 ..... 12 p1829 N84-21921* #
NAS 1.26:173373 ..... 12 p1829 N84-21922* #
NAS 1.26:173374 ..... 12 p1829 N84-21923* #
NAS 1.26:173375 ..... 12 p1829 N84-21924* #
NAS 1.26:173376 ..... 11 p1604 N84-20506* #
NAS 1.26:173377 ..... 11 p1633 N84-20676* #
NAS 1.26:173378 ..... 12 p1922 N84-22522* #
NAS 1.26:173393 ..... 12 p1797 N84-21720* #
NAS 1.26:173394 ..... 12 p1826 N84-21903* #
NAS 1.26:173395 ..... 12 p1922 N84-22524* #
NAS 1.26:173396 ..... 12 p1912 N84-22458* #
NAS 1.26:173397 ..... 12 p1918 N84-22495* #
NAS 1.26:173398 ..... 12 p1777 N84-21594* #
NAS 1.26:173399 ..... 14 p2127 N84-23751* #
NAS 1.26:173400 ..... 12 p1777 N84-21592* #
NAS 1.26:173401 ..... 12 p1777 N84-21593* #
NAS 1.26:173402 ..... 12 p1777 N84-21595* #
NAS 1.26:173403 ..... 12 p1777 N84-21596* #
NAS 1.26:173405 ..... 12 p1812 N84-21810* #
NAS 1.26:173408 ..... 12 p1860 N84-22115* #
NAS 1.26:173412 ..... 12 p1822 N84-21877* #
NAS 1.26:173415 ..... 13 p2091 N84-23545* #
NAS 1.26:173416 ..... 13 p1999 N84-22969* #
NAS 1.26:173417 ..... 13 p1985 N84-22889* #
NAS 1.26:173418 ..... 13 p2066 N84-23401* #
NAS 1.26:173419 ..... 13 p2010 N84-23039* #
NAS 1.26:173420 ..... 13 p2023 N84-23119* #
NAS 1.26:173421 ..... 13 p2034 N84-23193* #
NAS 1.26:173422 ..... 13 p1965 N84-22768* #
NAS 1.26:173425 ..... 14 p2244 N84-24476* #
NAS 1.26:173427 ..... 14 p2133 N84-23783* #
NAS 1.26:173429 ..... 14 p2252 N84-24522* #
NAS 1.26:173430 ..... 14 p2225 N84-24351* #
NAS 1.26:173432 ..... 15 p2361 N84-25165* #
NAS 1.26:173433 ..... 16 p2471 N84-25840* #
NAS 1.26:173434 ..... 16 p2558 N84-26413* #
NAS 1.26:173435 ..... 16 p2525 N84-26215* #
NAS 1.26:173437 ..... 16 p2535 N84-26274* #
NAS 1.26:173438 ..... 16 p2542 N84-26319* #
NAS 1.26:173439 ..... 17 p2682 N84-27076* #
NAS 1.26:173440 ..... 18 p2953 N84-28720* #
NAS 1.26:173442 ..... 17 p2615 N84-26738* #
NAS 1.26:173443 ..... 17 p2601 N84-26669* #
NAS 1.26:173444 ..... 18 p2798 N84-27757* #
NAS 1.26:173445 ..... 18 p2877 N84-28266* #
NAS 1.26:173446 ..... 18 p2805 N84-27808* #
NAS 1.26:173447 ..... 17 p2777 N84-27631* #
NAS 1.26:173448 ..... 18 p2923 N84-28537* #
NAS 1.26:173449 ..... 12 p1765 N84-21514* #
NAS 1.26:173450 ..... 12 p1834 N84-21955* #
NAS 1.26:173451 ..... 12 p1776 N84-21587* #
NAS 1.26:173452 ..... 12 p1769 N84-21538* #
NAS 1.26:173453 ..... 12 p1841 N84-22006* #
NAS 1.26:173454 ..... 12 p1842 N84-22007* #
NAS 1.26:173455 ..... 12 p1879 N84-22245* #
NAS 1.26:173456 ..... 12 p1841 N84-22001* #
NAS 1.26:173457 ..... 12 p1907 N84-22422* #
NAS 1.26:173458 ..... 12 p1842 N84-22009* #
NAS 1.26:173459 ..... 12 p1912 N84-22460* #
NAS 1.26:173460 ..... 12 p1842 N84-22008* #
NAS 1.26:173461 ..... 12 p1801 N84-21741* #
NAS 1.26:173462 ..... 12 p1842 N84-22010* #
NAS 1.26:173463 ..... 12 p1842 N84-22012* #
NAS 1.26:173464 ..... 12 p1842 N84-22011* #
NAS 1.26:173465 ..... 12 p1779 N84-21609* #
NAS 1.26:173466 ..... 12 p1863 N84-22138* #
NAS 1.26:173467 ..... 12 p1841 N84-22005* #
NAS 1.26:173468 ..... 12 p1765 N84-21515* #
NAS 1.26:173469 ..... 12 p1841 N84-22003* #
NAS 1.26:173470 ..... 12 p1841 N84-22004* #
NAS 1.26:173471 ..... 12 p1912 N84-22459* #
NAS 1.26:173472 ..... 12 p1841 N84-22002* #
NAS 1.26:173473 ..... 12 p1826 N84-21905* #
NAS 1.26:173474 ..... 12 p1901 N84-22380* #
NAS 1.26:173475 ..... 12 p1825 N84-21900* #
NAS 1.26:173477 ..... 12 p1838 N84-21980* #
NAS 1.26:173478 ..... 12 p1766 N84-21517* #
NAS 1.26:173479 ..... 12 p1877 N84-22230* #
NAS 1.26:173480 ..... 13 p2003 N84-22997* #
NAS 1.26:173481 ..... 13 p2004 N84-23004* #
NAS 1.26:173482 ..... 13 p2005 N84-23005* #
NAS 1.26:173483 ..... 13 p2005 N84-23006* #
NAS 1.26:173484 ..... 13 p2005 N84-23007* #
NAS 1.26:173485 ..... 13 p2005 N84-23008* #
NAS 1.26:173486 ..... 14 p2167 N84-23976* #
NAS 1.26:173487 ..... 14 p2167 N84-23977* #
NAS 1.26:173488 ..... 14 p2167 N84-23978* #
NAS 1.26:173489 ..... 13 p2005 N84-23009* #
NAS 1.26:173490 ..... 13 p2018 N84-23085* #
NAS 1.26:173491 ..... 15 p2425 N84-25566* #
NAS 1.26:173492 ..... 16 p2579 N84-26543* #
NAS 1.26:173493 ..... 13 p2019 N84-23092* #
NAS 1.26:173494 ..... 13 p1936 N84-22595* #
NAS 1.26:173495 ..... 13 p1936 N84-22590* #
NAS 1.26:173496 ..... 13 p1936 N84-22591* #
NAS 1.26:173497 ..... 13 p2091 N84-23544* #
NAS 1.26:173498 ..... 13 p1936 N84-22594* #
NAS 1.26:173499 ..... 13 p1936 N84-22593* #
NAS 1.26:173500 ..... 13 p1983 N84-22753* #
NAS 1.26:173501 ..... 13 p1936 N84-22592* #
NAS 1.26:173502 ..... 14 p2112 N84-23661* #
NAS 1.26:173503 ..... 14 p2145 N84-23854* #
NAS 1.26:173504 ..... 14 p2113 N84-23664* #
NAS 1.26:173505 ..... 14 p2104 N84-23620* #
NAS 1.26:173506 ..... 14 p2150 N84-23880* #
NAS 1.26:173507 ..... 14 p2157 N84-23921* #
NAS 1.26:173511 ..... 17 p2711 N84-27258* #
NAS 1.26:173514 ..... 15 p2332 N84-25001* #
NAS 1.26:173515 ..... 15 p2319 N84-24918* #
NAS 1.26:173517 ..... 15 p2265 N84-24601* #
NAS 1.26:173518 ..... 13 p2070 N84-23412* #
NAS 1.26:173519 ..... 13 p2091 N84-23543* #
NAS 1.26:173520 ..... 14 p2114 N84-23670* #
NAS 1.26:173521 ..... 14 p2115 N84-23671* #
NAS 1.26:173522 ..... 14 p2115 N84-23672* #
NAS 1.26:173523 ..... 14 p2115 N84-23673* #
NAS 1.26:173524 ..... 14 p2115 N84-23674* #
NAS 1.26:173525 ..... 13 p2070 N84-23414* #
NAS 1.26:173526 ..... 13 p2070 N84-23413* #
NAS 1.26:173527 ..... 14 p2175 N84-24030* #
NAS 1.26:173528 ..... 14 p2166 N84-23974* #
NAS 1.26:173529 ..... 15 p2265 N84-24600* #
NAS 1.26:173531 ..... 16 p2572 N84-26509* #
NAS 1.26:173532 ..... 14 p2113 N84-23662* #
NAS 1.26:173533 ..... 14 p2150 N84-23879* #
NAS 1.26:173534 ..... 14 p2136 N84-23807* #
NAS 1.26:173536 ..... 15 p2279 N84-24692* #
NAS 1.26:173537 ..... 15 p2366 N84-25195* #
NAS 1.26:173538 ..... 15 p2378 N84-25272* #
NAS 1.26:173539 ..... 15 p2417 N84-25510* #
NAS 1.26:173540 ..... 16 p2460 N84-25768* #
NAS 1.26:173541 ..... 15 p2338 N84-25034* #
NAS 1.26:173542 ..... 15 p2399 N84-25393* #
NAS 1.26:173545 ..... 16 p2580 N84-26550* #
NAS 1.26:173547 ..... 15 p2281 N84-24700* #
NAS 1.26:173548 ..... 15 p2320 N84-24924* #
NAS 1.26:173549 ..... 16 p2521 N84-26182* #
NAS 1.26:173550 ..... 15 p2301 N84-24810* #
NAS 1.26:173551 ..... 15 p2319 N84-24921* #
NAS 1.26:173552 ..... 15 p2389 N84-25336* #
NAS 1.26:173553 ..... 15 p2361 N84-25167* #
NAS 1.26:173554 ..... 15 p2361 N84-25166* #
NAS 1.26:173555 ..... 15 p2262 N84-24586* #
NAS 1.26:173556 ..... 15 p2332 N84-25002* #
NAS 1.26:173557 ..... 15 p2327 N84-24975* #
NAS 1.26:173558 ..... 15 p2319 N84-24923* #
NAS 1.26:173560 ..... 15 p2327 N84-24974* #
NAS 1.26:173561 ..... 15 p2429 N84-25587* #
NAS 1.26:173562 ..... 16 p2542 N84-26318* #
NAS 1.26:173564 ..... 16 p2542 N84-26317* #
NAS 1.26:173585 ..... 16 p2478 N84-25889* #
NAS 1.26:173587 ..... 16 p2579 N84-26544* #
NAS 1.26:173568 ..... 16 p2582 N84-26559* #
NAS 1.26:173590 ..... 16 p2528 N84-26232* #
NAS 1.26:173591 ..... 16 p2582 N84-26558* #
NAS 1.26:173592 ..... 16 p2577 N84-26535* #
NAS 1.26:173593 ..... 16 p2543 N84-26324* #
NAS 1.26:173594 ..... 16 p2462 N84-25776* #
NAS 1.26:173595 ..... 16 p2529 N84-26234* #
NAS 1.26:173596 ..... 16 p2438 N84-25639* #
NAS 1.26:173597 ..... 16 p2457 N84-25756* #
NAS 1.26:173598 ..... 16 p2569 N84-26483* #
NAS 1.26:173602 ..... 16 p2495 N84-26011* #
NAS 1.26:173603 ..... 16 p2576 N84-26530* #
NAS 1.26:173604 ..... 16 p2574 N84-26517* #
NAS 1.26:173605 ..... 16 p2462 N84-25779* #
NAS 1.26:173606 ..... 16 p2582 N84-26557* #
NAS 1.26:173607 ..... 16 p2464 N84-25792* #
NAS 1.26:173608 ..... 16 p2577 N84-26536* #
NAS 1.26:173609 ..... 16 p2577 N84-26537* #
NAS 1.26:173610 ..... 16 p2464 N84-25791* #
NAS 1.26:173611 ..... 16 p2575 N84-26527* #
NAS 1.26:173612 ..... 16 p2541 N84-26312* #
NAS 1.26:173613 ..... 16 p2541 N84-26313* #
NAS 1.26:173616 ..... 16 p2460 N84-25767* #
NAS 1.26:173617 ..... 16 p2543 N84-26325* #
NAS 1.26:173618 ..... 16 p2575 N84-26528* #
NAS 1.26:173619 ..... 16 p2544 N84-26327* #

NAS 1.26:173820 ..... 16 p2544 N84-26326* #
NAS 1.26:173821 ..... 16 p2521 N84-26184* #
NAS 1.26:173822 ..... 17 p2762 N84-27544* #
NAS 1.26:173826 ..... 17 p2666 N84-27001* #
NAS 1.26:173827 ..... 17 p2767 N84-27571* #
NAS 1.26:173828 ..... 17 p2780 N84-27652* #
NAS 1.26:173829 ..... 17 p2781 N84-27656* #
NAS 1.26:173830 ..... 17 p2739 N84-27394* #
NAS 1.26:173831 ..... 17 p2774 N84-27614* #
NAS 1.26:173832 ..... 17 p2774 N84-27613* #
NAS 1.26:173833 ..... 17 p2617 N84-26748* #
NAS 1.26:173834 ..... 17 p2740 N84-27395* #
NAS 1.26:173835 ..... 17 p2781 N84-27657* #
NAS 1.26:173836 ..... 17 p2652 N84-26960* #
NAS 1.26:173838 ..... 17 p2711 N84-27257* #
NAS 1.26:173839 ..... 17 p2671 N84-27024* #
NAS 1.26:173840 ..... 17 p2710 N84-27256* #
NAS 1.26:173841 ..... 17 p2727 N84-27358* #
NAS 1.26:173842 ..... 17 p2781 N84-27655* #
NAS 1.26:173843 ..... 17 p2728 N84-27362* #
NAS 1.26:173844 ..... 17 p2654 N84-26973* #
NAS 1.26:173848 ..... 17 p2667 N84-27005* #
NAS 1.26:173849 ..... 17 p2726 N84-27354* #
NAS 1.26:173850 ..... 17 p2781 N84-27658* #
NAS 1.26:173865 ..... 17 p2757 N84-27505* #
NAS 1.26:173866 ..... 19 p3038 N84-29275* #
NAS 1.26:173867 ..... 19 p3123 N84-29844* #
NAS 1.26:173868 ..... 19 p3039 N84-29277* #
NAS 1.26:173869 ..... 17 p2709 N84-27249* #
NAS 1.26:173870 ..... 17 p2709 N84-27250* #
NAS 1.26:173871 ..... 17 p2709 N84-27251* #
NAS 1.26:173872 ..... 21 p3353 N84-31270* #
NAS 1.26:173873 ..... 21 p3353 N84-31271* #
NAS 1.26:173874 ..... 09 p1267 N84-18272* #
NAS 1.26:173875 ..... 22 p3539 N84-32406* #
NAS 1.26:173876 ..... 22 p3613 N84-32894* #
NAS 1.26:173877 ..... 18 p2899 N84-28390* #
NAS 1.26:173878 ..... 18 p2845 N84-28066* #
NAS 1.26:173879 ..... 18 p2852 N84-28110* #
NAS 1.26:173880 ..... 18 p2879 N84-28279* #
NAS 1.26:173881 ..... 18 p2809 N84-27830* #
NAS 1.26:173882 ..... 21 p3419 N84-31682* #
NAS 1.26:173883 ..... 18 p2932 N84-28595* #
NAS 1.26:173884 ..... 16 p2548 N84-26352* #
NAS 1.26:173885 ..... 18 p2804 N84-27800* #
NAS 1.26:173886 ..... 18 p2804 N84-27799* #
NAS 1.26:173887 ..... 18 p2803 N84-27792* #
NAS 1.26:173888 ..... 18 p2798 N84-27756* #
NAS 1.26:173889 ..... 18 p2805 N84-27807* #
NAS 1.26:173890 ..... 18 p2805 N84-27806* #
NAS 1.26:173891 ..... 18 p2806 N84-27817* #
NAS 1.26:173892 ..... 18 p2806 N84-27814* #
NAS 1.26:173893 ..... 18 p2804 N84-27794* #
NAS 1.26:173894 ..... 18 p2804 N84-27793* #
NAS 1.26:173895 ..... 18 p2803 N84-27791* #
NAS 1.26:173896 ..... 18 p2803 N84-27790* #
NAS 1.26:173897 ..... 18 p2803 N84-27789* #
NAS 1.26:173898 ..... 18 p2803 N84-27788* #
NAS 1.26:173899 ..... 18 p2804 N84-27798* #
NAS 1.26:173700 ..... 18 p2804 N84-27796* #
NAS 1.26:173701 ..... 18 p2805 N84-27801* #
NAS 1.26:173702 ..... 18 p2804 N84-27795* #
NAS 1.26:173703 ..... 18 p2807 N84-27819* #
NAS 1.26:173704 ..... 18 p2798 N84-27755* #
NAS 1.26:173705 ..... 18 p2805 N84-27803* #
NAS 1.26:173706 ..... 18 p2805 N84-27804* #
NAS 1.26:173707 ..... 18 p2806 N84-27818* #
NAS 1.26:173708 ..... 18 p2928 N84-28569* #
NAS 1.26:173709 ..... 18 p2852 N84-28108* #
NAS 1.26:173710 ..... 18 p2806 N84-27816* #
NAS 1.26:173711 ..... 18 p2805 N84-27802* #
NAS 1.26:173712 ..... 18 p2806 N84-27811* #
NAS 1.26:173713 ..... 18 p2806 N84-27810* #
NAS 1.26:173714 ..... 18 p2805 N84-27809* #
NAS 1.26:173715 ..... 18 p2806 N84-27813* #
NAS 1.26:173716 ..... 18 p2806 N84-27812* #
NAS 1.26:173717 ..... 18 p2802 N84-27780* #
NAS 1.26:173718 ..... 18 p2806 N84-27815* #
NAS 1.26:173719 ..... 18 p2804 N84-27797* #
NAS 1.26:173721 ..... 18 p2791 N84-27717* #
NAS 1.26:173722 ..... 18 p2924 N84-28544* #
NAS 1.26:173723 ..... 18 p2786 N84-27681* #
NAS 1.26:173724 ..... 18 p2870 N84-28218* #
NAS 1.26:173725 ..... 18 p2870 N84-28217* #
NAS 1.26:173726 ..... 18 p2833 N84-27982* #
NAS 1.26:173727 ..... 18 p2883 N84-28296* #
NAS 1.26:173728 ..... 18 p2791 N84-27714* #
NAS 1.26:173730 ..... 18 p2869 N84-28211* #
NAS 1.26:173731 ..... 18 p2929 N84-28576* #
NAS 1.26:173732 ..... 18 p2871 N84-28223* #
NAS 1.26:173733 ..... 18 p2915 N84-28485* #
NAS 1.26:173734 ..... 16 p2836 N84-28003* #
NAS 1.26:173735 ..... 18 p2869 N84-28212* #
NAS 1.26:173736 ..... 18 p2801 N84-27779* #
NAS 1.26:173737 ..... 18 p2870 N84-28220* #
NAS 1.26:173738 ..... 18 p2845 N84-28067* #
NAS 1.26:173739 ..... 18 p2877 N84-28267* #
NAS 1.26:173740 ..... 18 p2892 N84-28355* #
NAS 1.26:173741 ..... 18 p2947 N84-28682* #
NAS 1.26:173742 ..... 18 p2833 N84-27981* #
NAS 1.26:173743 ..... 18 p2868 N84-28210* #
NAS 1.26:173744 ..... 18 p2828 N84-27956* #
NAS 1.26:173745 ..... 18 p2871 N84-28224* #
NAS 1.26:173746 ..... 18 p2935 N84-28614* #
NAS 1.26:173747 ..... 18 p2868 N84-28208* #
NAS 1.26:173748 ..... 18 p2870 N84-28219* #
NAS 1.26:173749 ..... 18 p2935 N84-28613* #
NAS 1.26:173750 ..... 18 p2869 N84-28216* #
NAS 1.26:173751 ..... 18 p2869 N84-28215* #
NAS 1.26:173752 ..... 18 p2868 N84-28207* #
NAS 1.26:173753 ..... 18 p2869 N84-28214* #
NAS 1.26:173754 ..... 18 p2869 N84-28213* #
NAS 1.26:173755 ..... 18 p2868 N84-28209* #
NAS 1.26:173756 ..... 18 p2870 N84-28221* #
NAS 1.26:173757 ..... 18 p2870 N84-28222* #
NAS 1.26:173758 ..... 19 p3050 N84-29352* #
NAS 1.26:173759 ..... 19 p3050 N84-29353* #
NAS 1.26:173760 ..... 19 p3049 N84-29350* #
NAS 1.26:173761 ..... 19 p3049 N84-29351* #
NAS 1.26:173762 ..... 19 p3049 N84-29348* #
NAS 1.26:173763 ..... 19 p3050 N84-29355* #
NAS 1.26:173764 ..... 19 p3050 N84-29354* #
NAS 1.26:173765 ..... 19 p2978 N84-28882* #
NAS 1.26:173766 ..... 19 p3049 N84-29349* #
NAS 1.26:173767 ..... 19 p3122 N84-29843* #
NAS 1.26:173769 ..... 18 p2805 N84-27805* #
NAS 1.26:173776 ..... 19 p2981 N84-28891* #
NAS 1.26:173777 ..... 19 p3063 N84-29432* #
NAS 1.26:173778 ..... 19 p3021 N84-29155* #
NAS 1.26:173779 ..... 19 p3034 N84-29244* #
NAS 1.26:173781 ..... 19 p2981 N84-28892* #
NAS 1.26:173782 ..... 19 p3068 N84-29464* #
NAS 1.26:173783 ..... 19 p3029 N84-29207* #
NAS 1.26:173784 ..... 19 p3099 N84-29685* #
NAS 1.26:173786 ..... 19 p3021 N84-29156* #
NAS 1.26:173787 ..... 19 p2987 N84-28929* #
NAS 1.26:173798 ..... 19 p3121 N84-29842* #
NAS 1.26:173799 ..... 19 p2956 N84-28734* #
NAS 1.26:173800 ..... 20 p3278 N84-30808* #
NAS 1.26:173801 ..... 19 p3067 N84-29457* #
NAS 1.26:173803 ..... 19 p3080 N84-29542* #
NAS 1.26:173804 ..... 19 p3082 N84-29561* #
NAS 1.26:173817 ..... 19 p3022 N84-29161* #
NAS 1.26:173818 ..... 19 p2986 N84-28919* #
NAS 1.26:173819 ..... 19 p2987 N84-28928* #
NAS 1.26:173820 ..... 20 p3172 N84-30145* #
NAS 1.26:173821 ..... 19 p3035 N84-29252* #
NAS 1.26:173823 ..... 19 p3090 N84-29618* #
NAS 1.26:173825 ..... 20 p3319 N84-31068* #
NAS 1.26:173827 ..... 20 p3319 N84-31066* #
NAS 1.26:173828 ..... 20 p3152 N84-30013* #
NAS 1.26:173829 ..... 20 p3125 N84-29851* #
NAS 1.26:173830 ..... 21 p3419 N84-31685* #
NAS 1.26:173832 ..... 22 p3534 N84-32377* #
NAS 1.26:173833 ..... 20 p3192 N84-30274* #
NAS 1.26:173834 ..... 20 p3245 N84-30595* #
NAS 1.26:173835 ..... 20 p3228 N84-30511* #
NAS 1.26:173836 ..... 21 p3518 N84-32282* #
NAS 1.26:173837 ..... 21 p3470 N84-31992* #
NAS 1.26:173839 ..... 21 p3464 N84-31957* #
NAS 1.26:173840 ..... 21 p3490 N84-32117* #
NAS 1.26:173841 ..... 21 p3463 N84-31954* #
NAS 1.26:173842 ..... 20 p3276 N84-30799* #
NAS 1.26:173843 ..... 20 p3196 N84-30296* #
NAS 1.26:173844 ..... 21 p3522 N84-32315* #
NAS 1.26:173845 ..... 21 p3357 N84-31291* #
NAS 1.26:173846 ..... 21 p3408 N84-31616* #
NAS 1.26:173847 ..... 21 p3490 N84-32116* #
NAS 1.26:173848 ..... 21 p3490 N84-32115* #
NAS 1.26:173849 ..... 21 p3507 N84-32220* #
NAS 1.26:173852 ..... 22 p3613 N84-32893* #
NAS 1.26:173853 ..... 21 p3427 N84-31736* #
NAS 1.26:173854 ..... 21 p3427 N84-31737* #
NAS 1.26:173855 ..... 21 p3427 N84-31738* #
NAS 1.26:173856 ..... 21 p3427 N84-31739* #
NAS 1.26:173857 ..... 22 p3637 N84-33056* #
NAS 1.26:173860 ..... 21 p3405 N84-31596* #
NAS 1.26:173861 ..... 21 p3457 N84-31936* #
NAS 1.26:173862 ..... 21 p3351 N84-31259* #
NAS 1.26:173863 ..... 21 p3491 N84-32121* #
NAS 1.26:173864 ..... 21 p3523 N84-32316* #
NAS 1.26:173865 ..... 21 p3366 N84-31350* #
NAS 1.26:173866 ..... 21 p3344 N84-31214* #
NAS 1.26:173867 ..... 21 p3353 N84-31267* #
NAS 1.26:173868 ..... 22 p3581 N84-32678* #
NAS 1.26:173869 ..... 21 p3398 N84-31559* #
NAS 1.26:173870 ..... 21 p3356 N84-31269* #
NAS 1.26:173871 ..... 21 p3460 N84-31945* #
NAS 1.26:173873 ..... 21 p3492 N84-32130* #
NAS 1.26:173874 ..... 21 p3450 N84-31896* #
NAS 1.26:173875 ..... 21 p3409 N84-31619* #
NAS 1.26:173876 ..... 22 p3613 N84-32892* #

NAS 1.26:173877 ..... 22 p3622 N84-32950* #
NAS 1.26:173878 ..... 22 p3678 N84-33315* #
NAS 1.26:173879 ..... 22 p3622 N84-32951* #
NAS 1.26:173880 ..... 22 p3537 N84-32395* #
NAS 1.26:173881 ..... 22 p3530 N84-32352* #
NAS 1.26:173882 ..... 21 p3429 N84-31758* #
NAS 1.26:173883 ..... 21 p3430 N84-31759* #
NAS 1.26:173884 ..... 22 p3536 N84-32389* #
NAS 1.26:173885 ..... 22 p3572 N84-32622* #
NAS 1.26:173886 ..... 22 p3678 N84-33319* #
NAS 1.26:173887 ..... 22 p3678 N84-33316* #
NAS 1.26:173888 ..... 22 p3661 N84-33210* #
NAS 1.26:173889 ..... 22 p3677 N84-33310* #
NAS 1.26:173890 ..... 22 p3633 N84-33022* #
NAS 1.26:173891 ..... 22 p3608 N84-32862* #
NAS 1.26:173892 ..... 22 p3609 N84-32863* #
NAS 1.26:173893 ..... 22 p3539 N84-32403* #
NAS 1.26:173896 ..... 22 p3616 N84-32915* #
NAS 1.26:173897 ..... 22 p3662 N84-33213* #
NAS 1.26:173898 ..... 22 p3617 N84-32920* #
NAS 1.26:173899 ..... 22 p3546 N84-32448* #
NAS 1.26:173900 ..... 22 p3675 N84-33299* #
NAS 1.26:173901 ..... 22 p3617 N84-32921* #
NAS 1.26:173902 ..... 23 p3786 N84-34013* #
NAS 1.26:173903 ..... 22 p3618 N84-32922* #
NAS 1.26:173904 ..... 22 p3617 N84-32916* #
NAS 1.26:173905 ..... 22 p3627 N84-32986* #
NAS 1.26:173906 ..... 22 p3675 N84-33295* #
NAS 1.26:173907 ..... 22 p3582 N84-32682* #
NAS 1.26:173908 ..... 22 p3617 N84-32918* #
NAS 1.26:173909 ..... 22 p3673 N84-33285* #
NAS 1.26:173910 ..... 22 p3617 N84-32917* #
NAS 1.26:173911 ..... 22 p3617 N84-32919* #
NAS 1.26:173913 ..... 22 p3633 N84-33020* #
NAS 1.26:173914 ..... 22 p3679 N84-33322* #
NAS 1.26:173915 ..... 22 p3651 N84-33145* #
NAS 1.26:173916 ..... 22 p3575 N84-32645* #
NAS 1.26:173917 ..... 22 p3652 N84-33146* #
NAS 1.26:173918 ..... 22 p3582 N84-32683* #
NAS 1.26:173919 ..... 22 p3679 N84-33323* #
NAS 1.26:173920 ..... 22 p3644 N84-33105* #
NAS 1.26:173921 ..... 22 p3639 N84-33071* #
NAS 1.26:173922 ..... 23 p3834 N84-34318* #
NAS 1.26:173923 ..... 22 p3679 N84-33321* #
NAS 1.26:173924 ..... 22 p3554 N84-32502* #
NAS 1.26:173926 ..... 23 p3786 N84-34012* #
NAS 1.26:173927 ..... 23 p3840 N84-34360* #
NAS 1.26:173928 ..... 23 p3845 N84-34392* #
NAS 1.26:173929 ..... 23 p3843 N84-34384* #
NAS 1.26:173930 ..... 23 p3843 N84-34383* #
NAS 1.26:173931 ..... 23 p3840 N84-34361* #
NAS 1.26:173932 ..... 23 p3702 N84-33463* #
NAS 1.26:173934 ..... 23 p3788 N84-34026* #
NAS 1.26:173935 ..... 23 p3789 N84-34033* #
NAS 1.26:173936 ..... 23 p3789 N84-34034* #
NAS 1.26:173937 ..... 23 p3790 N84-34035* #
NAS 1.26:173938 ..... 23 p3788 N84-34027* #
NAS 1.26:173939 ..... 23 p3713 N84-33534* #
NAS 1.26:173940 ..... 23 p3789 N84-34029* #
NAS 1.26:173941 ..... 23 p3789 N84-34028* #
NAS 1.26:173942 ..... 23 p3789 N84-34032* #
NAS 1.26:173943 ..... 23 p3789 N84-34031* #
NAS 1.26:173944 ..... 23 p3838 N84-34347* #
NAS 1.26:173945 ..... 23 p3763 N84-33854 #
NAS 1.26:173946 ..... 23 p3763 N84-33853 #
NAS 1.26:173949 ..... 23 p3787 N84-34021* #
NAS 1.26:173950 ..... 23 p3787 N84-34020* #
NAS 1.26:173951 ..... 23 p3788 N84-34022* #
NAS 1.26:173952 ..... 23 p3788 N84-34023* #
NAS 1.26:173953 ..... 23 p3788 N84-34025* #
NAS 1.26:173954 ..... 23 p3787 N84-34017* #
NAS 1.26:173955 ..... 23 p3787 N84-34016* #
NAS 1.26:173956 ..... 23 p3786 N84-34014* #
NAS 1.26:173957 ..... 23 p3786 N84-34015* #
NAS 1.26:173958 ..... 23 p3787 N84-34019* #
NAS 1.26:173959 ..... 23 p3789 N84-34030* #
NAS 1.26:173960 ..... 23 p3787 N84-34018* #
NAS 1.26:173961 ..... 23 p3743 N84-33725* #
NAS 1.26:173962 ..... 23 p3744 N84-33733* #
NAS 1.26:173963 ..... 23 p3799 N84-34086* #
NAS 1.26:173964 ..... 24 p3893 N84-34655* #
NAS 1.26:173966 ..... 23 p3843 N84-34385* #
NAS 1.26:173967 ..... 23 p3760 N84-33835* #
NAS 1.26:173968 ..... 23 p3838 N84-34349* #
NAS 1.26:173969 ..... 23 p3786 N84-34011* #
NAS 1.26:173970 ..... 23 p3824 N84-34253* #
NAS 1.26:173971 ..... 23 p3844 N84-34386* #
NAS 1.26:173972 ..... 23 p3828 N84-34280* #
NAS 1.26:173974 ..... 24 p3860 N84-34465* #
NAS 1.26:173975 ..... 24 p3884 N84-34610* #
NAS 1.26:173978 ..... 23 p3777 N84-33946* #
NAS 1.26:173979 ..... 23 p3717 N84-33565* #
NAS 1.26:173980 ..... 24 p3948 N84-35001* #
NAS 1.26:173981 ..... 24 p3897 N84-34675* #
NAS 1.26:173982 ..... 24 p3992 N84-35261* #
NAS 1.26:173983 ..... 24 p3945 N84-34977* #
NAS 1.26:173985 ..... 24 p3878 N84-34573* #
NAS 1.26:173987 ..... 24 p3861 N84-34467* #
NAS 1.26:173992 ..... 24 p3990 N84-35244* #
NAS 1.26:173993 ..... 24 p3995 N84-35283* #
NAS 1.26:173994 ..... 24 p3936 N84-34914* #
NAS 1.26:173995 ..... 24 p3919 N84-34812* #
NAS 1.26:173996 ..... 24 p3884 N84-34609* #
NAS 1.26:173997 ..... 24 p3859 N84-34459* #
NAS 1.26:173998 ..... 24 p3942 N84-34957* #
NAS 1.26:173999 ..... 24 p3859 N84-34460* #
NAS 1.26:174000 ..... 24 p3910 N84-34765* #
NAS 1.26:174005 ..... 24 p3933 N84-34897* #
NAS 1.26:174006 ..... 24 p3989 N84-35241* #
NAS 1.26:174007 ..... 24 p3916 N84-34793* #
NAS 1.26:174450 ..... 01 p0027 N84-10173* #
NAS 1.26:174464 ..... 01 p0102 N84-10660* #
NAS 1.26:174466 ..... 01 p0005 N84-10032* #
NAS 1.26:174467 ..... 01 p0104 N84-10679* #
NAS 1.26:174468 ..... 01 p0104 N84-10678* #
NAS 1.26:174469 ..... 01 p0165 N84-11066* #
NAS 1.26:174470 ..... 01 p0155 N84-11023* #
NAS 1.26:174471 ..... 02 p0278 N84-11822* #
NAS 1.26:174472 ..... 01 p0104 N84-10677 #
NAS 1.26:174477 ..... 02 p0307 N84-12013* #
NAS 1.26:174480 ..... 02 p0283 N84-11855* #
NAS 1.26:174481 ..... 02 p0236 N84-11563* #
NAS 1.26:174482 ..... 02 p0211 N84-11382* #
NAS 1.26:174483 ..... 02 p0248 N84-11622* #
NAS 1.26:174488 ..... 03 p0418 N84-12732* #
NAS 1.26:174489 ..... 03 p0432 N84-12832* #
NAS 1.26:174490 ..... 03 p0417 N84-12727* #
NAS 1.26:174494 ..... 03 p0320 N84-12096* #
NAS 1.26:174495 ..... 03 p0388 N84-12527* #
NAS 1.26:174496 ..... 04 p0531 N84-13491* #
NAS 1.26:174501 ..... 05 p0749 N84-14917 #
NAS 1.26:174502 ..... 06 p0893 N84-15803* #
NAS 1.26:174503 ..... 06 p0873 N84-15681* #
NAS 1.26:174504 ..... 06 p0858 N84-15589* #
NAS 1.26:174506 ..... 06 p0922 N84-15997* #
NAS 1.26:174507 ..... 07 p0980 N84-16353* #
NAS 1.26:174508 ..... 07 p0981 N84-16354* #
NAS 1.26:174509 ..... 07 p0980 N84-16351* #
NAS 1.26:174516 ..... 02 p0235 N84-11543* #
NAS 1.26:174517 ..... 04 p0551 N84-13627* #
NAS 1.26:174518 ..... 02 p0235 N84-11544* #
NAS 1.26:174519 ..... 02 p0235 N84-11545* #
NAS 1.26:174520 ..... 02 p0235 N84-11546* #
NAS 1.26:174521 ..... 03 p0392 N84-12555* #
NAS 1.26:174522 ..... 01 p0099 N84-10641* #
NAS 1.26:174523 ..... 01 p0099 N84-10642* #
NAS 1.26:174524 ..... 02 p0236 N84-11547* #
NAS 1.26:174526 ..... 02 p0236 N84-11549* #
NAS 1.26:174527 ..... 02 p0236 N84-11550* #
NAS 1.26:174528 ..... 02 p0236 N84-11551* #
NAS 1.26:174529 ..... 02 p0236 N84-11552* #
NAS 1.26:174530 ..... 02 p0237 N84-11553* #
NAS 1.26:174532 ..... 01 p0120 N84-10778* #
NAS 1.26:174533 ..... 01 p0061 N84-10401* #
NAS 1.26:174534 ..... 01 p0042 N84-10267* #
NAS 1.26:174535 ..... 01 p0159 N84-11046* #
NAS 1.26:174536 ..... 01 p0093 N84-10608* #
NAS 1.26:174540 ..... 01 p0139 N84-10910* #
NAS 1.26:174541 ..... 01 p0056 N84-10366* #
NAS 1.26:174542 ..... 02 p0287 N84-11882* #
NAS 1.26:174543 ..... 03 p0392 N84-12556* #
NAS 1.26:174544 ..... 02 p0237 N84-11554* #
NAS 1.26:174545 ..... 02 p0237 N84-11555* #
NAS 1.26:174546 ..... 01 p0099 N84-10644* #
NAS 1.26:174547 ..... 02 p0237 N84-11558* #
NAS 1.26:174549 ..... 02 p0238 N84-11560* #
NAS 1.26:174550 ..... 02 p0238 N84-11561* #
NAS 1.26:174551 ..... 02 p0237 N84-11557* #
NAS 1.26:174552 ..... 01 p0028 N84-10177* #
NAS 1.26:174569 ..... 02 p0308 N84-12019* #
NAS 1.26:174570 ..... 02 p0302 N84-11981* #
NAS 1.26:174571 ..... 02 p0183 N84-11186* #
NAS 1.26:174572 ..... 02 p0167 N84-11098* #
NAS 1.26:174573 ..... 02 p0183 N84-11189* #
NAS 1.26:174574 ..... 03 p0464 N84-13057* #
NAS 1.26:174575 ..... 03 p0465 N84-13058* #
NAS 1.26:174576 ..... 12 p1878 N84-22242* #
NAS 1.26:174577 ..... 05 p0764 N84-15012* #
NAS 1.26:174578 ..... 05 p0733 N84-14813* #
NAS 1.26:174579 ..... 05 p0764 N84-15013* #
NAS 1.26:174580 ..... 05 p0702 N84-14607* #
NAS 1.26:174581 ..... 05 p0696 N84-14572* #
NAS 1.26:174582 ..... 05 p0697 N84-14574* #
NAS 1.26:174584 ..... 03 p0465 N84-13059* #
NAS 1.26:174585 ..... 03 p0311 N84-12028* #
NAS 1.26:174586 ..... 04 p0551 N84-13628* #
NAS 1.26:174587 ..... 06 p0864 N84-15626* #
NAS 1.26:174588 ..... 04 p0551 N84-13629* #
NAS 1.26:174589 ..... 04 p0551 N84-13630* #
NAS 1.26:174590 ..... 04 p0551 N84-13631* #
NAS 1.26:174591 ..... 04 p0551 N84-13632* #
NAS 1.26:174592 ..... 04 p0551 N84-13633* #

NAS 1.26:174593 ..... 04 p0552 N84-13634* #
NAS 1.26:174594 ..... 03 p0407 N84-12664* #
NAS 1.26:174595 ..... 03 p0378 N84-12462* #
NAS 1.26:174596 ..... 03 p0464 N84-13056* #
NAS 1.26:174597 ..... 03 p0347 N84-12257* #
NAS 1.26:174598 ..... 03 p0342 N84-12223* #
NAS 1.26:174599 ..... 03 p0485 N84-13064* #
NAS 1.26:174602 ..... 03 p0348 N84-12263* #
NAS 1.26:174605 ..... 05 p0644 N84-14233* #
NAS 1.26:174606 ..... 04 p0539 N84-13548* #
NAS 1.26:174607 ..... 04 p0559 N84-13688* #
NAS 1.26:174608 ..... 04 p0621 N84-14098* #
NAS 1.26:174609 ..... 04 p0478 N84-13149* #
NAS 1.26:174610 ..... 04 p0518 N84-13401* #
NAS 1.26:174611 ..... 04 p0552 N84-13637* #
NAS 1.26:174612 ..... 04 p0552 N84-13638* #
NAS 1.26:174613 ..... 04 p0553 N84-13639* #
NAS 1.26:174614 ..... 04 p0553 N84-13640* #
NAS 1.26:174615 ..... 04 p0553 N84-13641* #
NAS 1.26:174616 ..... 04 p0553 N84-13643* #
NAS 1.26:174617 ..... 04 p0553 N84-13642* #
NAS 1.26:174618 ..... 04 p0562 N84-13704* #
NAS 1.26:174619 ..... 06 p0878 N84-15710* #
NAS 1.26:174621 ..... 10 p1450 N84-19468* #
NAS 1.26:174622 ..... 21 p3521 N84-32305* #
NAS 1.26:174623 ..... 11 p1624 N84-20632* #
NAS 1.26:174624 ..... 17 p2609 N84-26702* #
NAS 1.26:174625 ..... 23 p3695 N84-33417* #
NAS 1.26:174627 ..... 16 p2473 N84-25854* #
NAS 1.26:174628 ..... 10 p1458 N84-19523* #
NAS 1.26:174629 ..... 18 p2849 N84-28089* #
NAS 1.26:174631 ..... 17 p2733 N84-27375* #
NAS 1.26:174633 ..... 12 p1822 N84-21879* #
NAS 1.26:174634 ..... 13 p2001 N84-22980* #
NAS 1.26:174635-VOL-1 ..... 11 p1621 N84-20611* #
NAS 1.26:174635-VOL-2 ..... 11 p1621 N84-20612* #
NAS 1.26:174636 ..... 21 p3405 N84-31595* #
NAS 1.26:174639 ..... 11 p1633 N84-20674* #
NAS 1.26:174640 ..... 16 p2450 N84-25710* #
NAS 1.26:174641 ..... 10 p1431 N84-19353* #
NAS 1.26:174642 ..... 18 p2820 N84-27908* #
NAS 1.26:174644 ..... 14 p2131 N84-23775* #
NAS 1.26:174649 ..... 14 p2114 N84-23667* #
NAS 1.26:174650 ..... 16 p2450 N84-25711* #
NAS 1.26:174655 ..... 23 p3790 N84-34036* #
NAS 1.26:174659 ..... 19 p2992 N84-28960* #
NAS 1.26:174660 ..... 16 p2518 N84-26165* #
NAS 1.26:174661 ..... 12 p1790 N84-21677* #
NAS 1.26:174663 ..... 13 p1932 N84-22568* #
NAS 1.26:174666 ..... 15 p2343 N84-25065* #
NAS 1.26:174667 ..... 14 p2109 N84-23649* #
NAS 1.26:174668 ..... 20 p3130 N84-29877* #
NAS 1.26:174669 ..... 17 p2628 N84-26813* #
NAS 1.26:174670 ..... 21 p3383 N84-31464* #
NAS 1.26:174671 ..... 21 p3354 N84-31274* #
NAS 1.26:174674 ..... 22 p3677 N84-33307* #
NAS 1.26:174675 ..... 15 p2261 N84-24580* #
NAS 1.26:174677 ..... 17 p2723 N84-27328* #
NAS 1.26:174680 ..... 16 p2439 N84-25646* #
NAS 1.26:174683 ..... 15 p2295 N84-24774* #
NAS 1.26:174685 ..... 24 p3855 N84-34444* #
NAS 1.26:174686 ..... 22 p3554 N84-32503* #
NAS 1.26:174688 ..... 14 p2106 N84-23629* #
NAS 1.26:174690 ..... 22 p3677 N84-33309* #
NAS 1.26:174691 ..... 22 p3554 N84-32504* #
NAS 1.26:174694 ..... 19 p3117 N84-29805* #
NAS 1.26:174702 ..... 22 p3543 N84-32428* #
NAS 1.26:174703 ..... 22 p3543 N84-32429* #
NAS 1.26:174704 ..... 21 p3354 N84-31275* #
NAS 1.26:174705 ..... 19 p2992 N84-28961* #
NAS 1.26:174706 ..... 22 p3603 N84-32828* #
NAS 1.26:174714 ..... 17 p2723 N84-27329* #
NAS 1.26:174716 ..... 23 p3741 N84-33715* #
NAS 1.26:174717 ..... 19 p2966 N84-28794* #
NAS 1.26:174720 ..... 23 p3790 N84-34037* #
NAS 1.26:174725 ..... 19 p3050 N84-29356* #
NAS 1.26:174728 ..... 23 p3836 N84-34331* #
NAS 1.26:174755 ..... 22 p3676 N84-33306* #
NAS 1.26:174759 ..... 22 p3593 N84-32751* #
NAS 1.26:174760 ..... 22 p3536 N84-32390* #
NAS 1.26:174761 ..... 22 p3561 N84-32552* #
NAS 1.26:174763 ..... 23 p3701 N84-33462* #
NAS 1.26:174767 ..... 24 p3878 N84-34575* #
NAS 1.26:174774 ..... 24 p3912 N84-34774* #
NAS 1.26:174948 ..... 23 p3788 N84-34024* #
NAS 1.26:175121 ..... 06 p0878 N84-15711* #
NAS 1.26:175122 ..... 06 p0881 N84-15730* #
NAS 1.26:175123 ..... 06 p0865 N84-15632* #
NAS 1.26:175126 ..... 06 p0794 N84-15173* #
NAS 1.26:175128 ..... 18 p2832 N84-27980* #
NAS 1.26:175131 ..... 06 p0916 N84-15957* #
NAS 1.26:175132 ..... 06 p0919 N84-15972* #
NAS 1.26:175134 ..... 06 p0877 N84-15708* #
NAS 1.26:175144 ..... 07 p1023 N84-16636* #
NAS 1.26:175150 ..... 08 p1186 N84-17725* #
NAS 1.26:175151 ..... 11 p1749 N84-21418* #
NAS 1.26:175153 ..... 08 p1142 N84-17432* #
NAS 1.26:175154 ..... 07 p1035 N84-16712* #
NAS 1.26:175155 ..... 15 p2357 N84-25141* #
NAS 1.26:175156 ..... 07 p1006 N84-16524* #
NAS 1.26:175158 ..... 10 p1578 N84-20336* #
NAS 1.26:175159 ..... 08 p1149 N84-17480* #
NAS 1.26:175160 ..... 11 p1620 N84-20605* #
NAS 1.26:175160-VOL-2 ..... 08 p1108 N84-17203* #
NAS 1.26:175165 ..... 08 p1186 N84-17726* #
NAS 1.26:175168 ..... 11 p1677 N84-20946* #
NAS 1.26:175176 ..... 10 p1484 N84-19705* #
NAS 1.26:175178 ..... 09 p1306 N84-18537* #
NAS 1.26:175179 ..... 10 p1521 N84-19957* #
NAS 1.26:175180 ..... 08 p1186 N84-17727* #
NAS 1.26:175185 ..... 08 p1234 N84-18066* #
NAS 1.26:175192 ..... 10 p1592 N84-20435* #
NAS 1.26:175193 ..... 10 p1433 N84-19369* #
NAS 1.26:175194 ..... 10 p1433 N84-19370* #
NAS 1.26:175195 ..... 10 p1434 N84-19371* #
NAS 1.26:175197 ..... 10 p1434 N84-19373* #
NAS 1.26:175198 ..... 10 p1434 N84-19374* #
NAS 1.26:175199 ..... 10 p1434 N84-19375* #
NAS 1.26:175200 ..... 10 p1434 N84-19376* #
NAS 1.26:175203 ..... 10 p1531 N84-20028* #
NAS 1.26:175204 ..... 10 p1549 N84-20154* #
NAS 1.26:175208 ..... 08 p1185 N84-17718* #
NAS 1.26:175209 ..... 10 p1520 N84-19954* #
NAS 1.26:175210 ..... 12 p1830 N84-21928* #
NAS 1.26:175211 ..... 10 p1439 N84-19394* #
NAS 1.26:175212 ..... 10 p1434 N84-19372* #
NAS 1.26:175214 ..... 10 p1524 N84-19986* #
NAS 1.26:175216 ..... 10 p1533 N84-20042* #
NAS 1.26:175219 ..... 10 p1485 N84-19707* #
NAS 1.26:175220 ..... 11 p1760 N84-21486* #
NAS 1.26:175221 ..... 11 p1662 N84-20841* #
NAS 1.26:175225 ..... 16 p2575 N84-26529* #
NAS 1.26:175227 ..... 15 p2388 N84-25325* #
NAS 1.26:175228 ..... 15 p2338 N84-25036* #
NAS 1.26:175230 ..... 15 p2279 N84-24691* #
NAS 1.26:175231 ..... 15 p2319 N84-24920* #
NAS 1.26:175233 ..... 07 p1089 N84-17080* #
NAS 1.26:175234 ..... 08 p1242 N84-18121* #
NAS 1.26:175235 ..... 07 p1089 N84-17081* #
NAS 1.26:175236 ..... 07 p1089 N84-17079* #
NAS 1.26:175240 ..... 18 p2878 N84-28275* #
NAS 1.26:175243 ..... 18 p2844 N84-28058* #
NAS 1.26:175244 ..... 18 p2828 N84-27955* #
NAS 1.26:175245 ..... 18 p2878 N84-28276* #
NAS 1.26:175248 ..... 18 p2954 N84-28721* #
NAS 1.26:175249 ..... 18 p2832 N84-27976* #
NAS 1.26:175250 ..... 19 p3039 N84-29276* #
NAS 1.26:175251 ..... 22 p3622 N84-32948* #
NAS 1.26:175252 ..... 22 p3539 N84-32405* #
NAS 1.26:175253 ..... 22 p3600 N84-32802* #
NAS 1.26:175254 ..... 22 p3656 N84-33178* #
NAS 1.26:175255 ..... 22 p3614 N84-32896* #
NAS 1.26:175257 ..... 22 p3539 N84-32404* #
NAS 1.26:175258 ..... 22 p3558 N84-32534* #
NAS 1.26:175259 ..... 22 p3598 N84-32785* #
NAS 1.26:175260 ..... 22 p3592 N84-32750* #
NAS 1.26:175261 ..... 22 p3575 N84-32646* #
NAS 1.26:175262 ..... 22 p3576 N84-32647* #
NAS 1.26:175263 ..... 22 p3576 N84-32648* #
NAS 1.26:175264 ..... 22 p3576 N84-32649* #
NAS 1.26:175270 ..... 21 p3426 N84-31735* #
NAS 1.26:175271 ..... 10 p1529 N84-20015* #
NAS 1.26:175323 ..... 06 p0822 N84-15360* #
NAS 1.26:175324 ..... 06 p0793 N84-15168* #
NAS 1.26:175325 ..... 06 p0846 N84-15520* #
NAS 1.26:175328 ..... 06 p0910 N84-15909* #
NAS 1.26:175329 ..... 06 p0938 N84-16095* #
NAS 1.26:175330 ..... 06 p0938 N84-16096* #
NAS 1.26:175334 ..... 07 p1001 N84-16489* #
NAS 1.26:175335 ..... 07 p1061 N84-16877* #
NAS 1.26:175336 ..... 07 p1051 N84-16805* #
NAS 1.26:175337 ..... 07 p1032 N84-16699* #
NAS 1.26:175338 ..... 07 p0945 N84-16131* #
NAS 1.26:175340 ..... 07 p1069 N84-16944* #
NAS 1.26:175341 ..... 07 p0964 N84-16248* #
NAS 1.26:175342 ..... 07 p1054 N84-16824* #
NAS 1.26:175343 ..... 07 p1088 N84-17077* #
NAS 1.26:175344 ..... 07 p1079 N84-17016* #
NAS 1.26:175345 ..... 07 p0991 N84-16422* #
NAS 1.26:175347 ..... 07 p1090 N84-17089* #
NAS 1.26:175348 ..... 07 p1092 N84-17100* #
NAS 1.26:175350 ..... 07 p1090 N84-17090* #
NAS 1.26:175351 ..... 07 p1092 N84-17105* #
NAS 1.26:175352 ..... 07 p1032 N84-16698* #
NAS 1.26:175353 ..... 07 p0967 N84-16264* #
NAS 1.26:175354 ..... 07 p0953 N84-16179* #
NAS 1.26:175355 ..... 07 p0964 N84-16246* #
NAS 1.26:175356 ..... 07 p0950 N84-16163* #
NAS 1.26:175357 ..... 07 p1069 N84-16943* #
NAS 1.26:175358 ..... 07 p1036 N84-16719* #
NAS 1.26:175359 ..... 07 p0945 N84-16134* #
NAS 1.26:175360 ..... 07 p0969 N84-16280* #

NAS 1.26:175361 ..... 08 p1242 N84-18119* #
NAS 1.26:175362 ..... 08 p1190 N84-17755* #
NAS 1.26:175364 ..... 08 p1156 N84-17529* #
NAS 1.26:175365 ..... 08 p1155 N84-17520* #
NAS 1.26:175366 ..... 08 p1169 N84-17616* #
NAS 1.26:175368 ..... 08 p1246 N84-18148* #
NAS 1.26:175369 ..... 08 p1103 N84-17172* #
NAS 1.26:175370 ..... 08 p1185 N84-17721 #
NAS 1.26:175371 ..... 08 p1231 N84-18046* #
NAS 1.26:175372 ..... 08 p1242 N84-18120* #
NAS 1.26:175373 ..... 08 p1186 N84-17726* #
NAS 1.26:175374 ..... 08 p1245 N84-18139* #
NAS 1.26:175375 ..... 08 p1217 N84-17941* #
NAS 1.26:175376 ..... 08 p1242 N84-18122* #
NAS 1.26:175378 ..... 08 p1228 N84-18026* #
NAS 1.26:175379 ..... 08 p1149 N84-17478* #
NAS 1.26:175380 ..... 08 p1103 N84-17171* #
NAS 1.26:175381 ..... 09 p1416 N84-19263* #
NAS 1.26:175382 ..... 09 p1267 N84-18270* #
NAS 1.26:175383 ..... 10 p1521 N84-19959* #
NAS 1.26:175384 ..... 10 p1521 N84-19960* #
NAS 1.26:175385 ..... 10 p1522 N84-19963* #
NAS 1.26:175386 ..... 10 p1522 N84-19964* #
NAS 1.26:175387 ..... 10 p1522 N84-19965* #
NAS 1.26:175388 ..... 10 p1522 N84-19966* #
NAS 1.26:175389 ..... 10 p1553 N84-20175* #
NAS 1.26:175390 ..... 11 p1758 N84-21478* #
NAS 1.26:175391 ..... 10 p1491 N84-19746* #
NAS 1.26:175392 ..... 10 p1490 N84-19744* #
NAS 1.26:175393 ..... 10 p1545 N84-20126* #
NAS 1.26:175394 ..... 10 p1597 N84-20468* #
NAS 1.26:175396 ..... 10 p1454 N84-19495* #
NAS 1.26:175397 ..... 10 p1491 N84-19745* #
NAS 1.26:175399 ..... 10 p1419 N84-19283* #
NAS 1.26:175400 ..... 10 p1500 N84-19803* #
NAS 1.26:175401 ..... 10 p1491 N84-19748* #
NAS 1.26:175404 ..... 10 p1531 N84-20030* #
NAS 1.26:175405 ..... 11 p1671 N84-20905* #
NAS 1.26:175406 ..... 10 p1465 N84-19568* #
NAS 1.26:175407 ..... 10 p1533 N84-20041* #
NAS 1.26:175409 ..... 11 p1754 N84-21448* #
NAS 1.26:175410 ..... 11 p1601 N84-20488* #
NAS 1.26:175411 ..... 11 p1754 N84-21447* #
NAS 1.26:175412 ..... 11 p1752 N84-21437* #
NAS 1.26:175413 ..... 12 p1876 N84-22228* #
NAS 1.26:175414 ..... 12 p1922 N84-22523* #
NAS 1.26:175415 ..... 11 p1737 N84-21331* #
NAS 1.26:175416 ..... 11 p1714 N84-21179* #
NAS 1.26:175422 ..... 10 p1546 N84-20135* #
NAS 1.26:175423 ..... 10 p1473 N84-19620* #
NAS 1.26:175424 ..... 11 p1604 N84-20504* #
NAS 1.26:175425 ..... 10 p1556 N84-20197* #
NAS 1.26:175428 ..... 11 p1681 N84-20970* #
NAS 1.26:175430 ..... 11 p1685 N84-20988* #
NAS 1.26:175431 ..... 11 p1759 N84-21480* #
NAS 1.26:175433 ..... 11 p1662 N84-20844* #
NAS 1.26:175434 ..... 12 p1776 N84-21586* #
NAS 1.26:175435 ..... 11 p1620 N84-20604* #
NAS 1.26:175436 ..... 11 p1621 N84-20610* #
NAS 1.26:175437 ..... 11 p1664 N84-20857* #
NAS 1.26:175438 ..... 11 p1624 N84-20630* #
NAS 1.26:175439 ..... 11 p1693 N84-21045* #
NAS 1.26:175440 ..... 11 p1627 N84-20647* #
NAS 1.26:175441 ..... 11 p1731 N84-21290* #
NAS 1.26:175442 ..... 11 p1662 N84-20843* #
NAS 1.26:175443 ..... 11 p1662 N84-20842* #
NAS 1.26:175444 ..... 11 p1608 N84-20524* #
NAS 1.26:175445 ..... 11 p1681 N84-20972* #
NAS 1.26:175446 ..... 11 p1602 N84-20492* #
NAS 1.26:175447 ..... 11 p1728 N84-21276* #
NAS 1.26:175448 ..... 11 p1623 N84-20627* #
NAS 1.26:175451 ..... 11 p1677 N84-20947* #
NAS 1.26:177276 ..... 18 p2817 N84-27888* #
NAS 1.55:2208 ..... 18 p2783 N84-27660* #
NAS 1.55:2211 ..... 18 p2787 N84-27686* #
NAS 1.55:2234 ..... 19 p3096 N84-29662* #
NAS 1.55:2272 ..... 12 p1869 N84-22179* #
NAS 1.55:2275-VOL-1 ..... 18 p2950 N84-28709* #
NAS 1.55:2275-VOL-3 ..... 21 p3523 N84-32318* #
NAS 1.55:2279 ..... 03 p0311 N84-12029* #
NAS 1.55:2280 ..... 03 p0466 N84-13067* #
NAS 1.55:2282 ..... 01 p0009 N84-10055* #
NAS 1.55:2283-PT-1 ..... 01 p0018 N84-10115* #
NAS 1.55:2283-PT-2 ..... 01 p0023 N84-10144* #
NAS 1.55:2284 ..... 06 p0858 N84-15590* #
NAS 1.55:2285 ..... 02 p0167 N84-11099* #
NAS 1.55:2286 ..... 02 p0262 N84-11720* #
NAS 1.55:2287 ..... 06 p0818 N84-15327* #
NAS 1.55:2290 ..... 03 p0343 N84-12228* #
NAS 1.55:2292 ..... 04 p0562 N84-13706* #
NAS 1.55:2293 ..... 09 p1268 N84-18277* #
NAS 1.55:2294 ..... 08 p1109 N84-17211* #
NAS 1.55:2295 ..... 10 p1558 N84-20208* #
NAS 1.55:2296 ..... 11 p1615 N84-20567* #
NAS 1.55:2297 ..... 21 p3419 N84-31688* #
NAS 1.55:2299 ..... 09 p1351 N84-18829* #
NAS 1.55:2300-VOL-1 ..... 14 p2152 N84-23891* #
NAS 1.55:2300-VOL-2 ..... 15 p2340 N84-25047* #
NAS 1.55:2301 ..... 12 p1889 N84-22299* #
NAS 1.55:2302 ..... 12 p1904 N84-22402* #
NAS 1.55:2303 ..... 17 p2711 N84-27262* #
NAS 1.55:2304 ..... 11 p1747 N84-21403* #
NAS 1.55:2305 ..... 09 p1335 N84-18716* #
NAS 1.55:2307 ..... 14 p2106 N84-23630* #
NAS 1.55:2309 ..... 11 p1608 N84-20525* #
NAS 1.55:2310 ..... 17 p2778 N84-27635* #
NAS 1.55:2311 ..... 15 p2346 N84-25078* #
NAS 1.55:2314 ..... 19 p3043 N84-29307* #
NAS 1.55:2316 ..... 20 p3256 N84-30665* #
NAS 1.55:2317 ..... 18 p2839 N84-28020* #
NAS 1.55:2318 ..... 22 p3622 N84-32952* #
NAS 1.55:2320 ..... 18 p2855 N84-28131* #
NAS 1.55:2321 ..... 20 p3145 N84-29969* #
NAS 1.55:2323 ..... 22 p3671 N84-33266* #
NAS 1.55:2324 ..... 18 p2799 N84-27758* #
NAS 1.55:2325 ..... 20 p3222 N84-30475* #
NAS 1.55:2326-VOL-1 ..... 20 p3205 N84-30359* #
NAS 1.55:2326-VOL-2 ..... 20 p3208 N84-30380* #
NAS 1.55:2328 ..... 22 p3609 N84-32864* #
NAS 1.55:2329 ..... 24 p3923 N84-34829* #
NAS 1.55:2331 ..... 23 p3735 N84-33668* #
NAS 1.55:2333 ..... 23 p3841 N84-34383* #
NAS 1.55:2337 ..... 24 p3881 N84-34589* #
NAS 1.55:2340 ..... 24 p3861 N84-34468* #
NAS 1.55:2343-PT-1 ..... 23 p3841 N84-34366* #
NAS 1.55:2343-PT-2 ..... 23 p3842 N84-34376* #
NAS 1.60:1024 ..... 01 p0077 N84-10504* #
NAS 1.60:1086 ..... 02 p0189 N84-11230* #
NAS 1.60:1910 ..... 18 p2786 N84-27682* #
NAS 1.60:1965 ..... 18 p2788 N84-27694* #
NAS 1.60:2000 ..... 19 p2957 N84-28743* #
NAS 1.60:2004 ..... 01 p0139 N84-10913* #
NAS 1.60:2052 ..... 19 p2966 N84-28795* #
NAS 1.60:2119 ..... 01 p0004 N84-10025* #
NAS 1.60:2122 ..... 04 p0484 N84-13182* #
NAS 1.60:2128 ..... 04 p0487 N84-13198* #
NAS 1.60:2145 ..... 13 p1988 N84-22907* #
NAS 1.60:2147 ..... 01 p0104 N84-10675* #
NAS 1.60:2165 ..... 17 p2751 N84-27461* #
NAS 1.60:2183 ..... 03 p0337 N84-12190* #
NAS 1.60:2193 ..... 04 p0588 N84-13885* #
NAS 1.60:2197 ..... 04 p0594 N84-13923* #
NAS 1.60:2205 ..... 04 p0479 N84-13152* #
NAS 1.60:2212 ..... 03 p0332 N84-12164* #
NAS 1.60:2214 ..... 13 p1986 N84-22906* #
NAS 1.60:2215 ..... 07 p1015 N84-16585* #
NAS 1.60:2217 ..... 12 p1898 N84-22363* #
NAS 1.60:2218 ..... 02 p0223 N84-11460* #
NAS 1.60:2220 ..... 08 p1166 N84-17590* #
NAS 1.60:2221 ..... 07 p1057 N84-16843* #
NAS 1.60:2225 ..... 10 p1490 N84-19741* #
NAS 1.60:2226 ..... 04 p0548 N84-13614* #
NAS 1.60:2228 ..... 04 p0481 N84-13163* #
NAS 1.60:2229 ..... 08 p1157 N84-17534* #
NAS 1.60:2230 ..... 08 p1105 N84-17184* #
NAS 1.60:2231 ..... 02 p0180 N84-11171* #
NAS 1.60:2232 ..... 12 p1814 N84-21828* #
NAS 1.60:2234 ..... 04 p0481 N84-13165* #
NAS 1.60:2235 ..... 04 p0481 N84-13164* #
NAS 1.60:2236 ..... 04 p0497 N84-13263* #
NAS 1.60:2237 ..... 09 p1386 N84-19049* #
NAS 1.60:2238 ..... 07 p0997 N84-16461* #
NAS 1.60:2239 ..... 04 p0491 N84-13224* #
NAS 1.60:2240 ..... 07 p0964 N84-16247* #
NAS 1.60:2241 ..... 08 p1163 N84-17575* #
NAS 1.60:2242 ..... 04 p0603 N84-13978* #
NAS 1.60:2243 ..... 11 p1667 N84-20878* #
NAS 1.60:2244 ..... 12 p1869 N84-22178* #
NAS 1.60:2245 ..... 04 p0532 N84-13500* #
NAS 1.60:2246 ..... 09 p1250 N84-18162* #
NAS 1.60:2247 ..... 09 p1255 N84-18189* #
NAS 1.60:2248 ..... 06 p0829 N84-15394* #
NAS 1.60:2249 ..... 09 p1250 N84-18163* #
NAS 1.60:2250 ..... 09 p1251 N84-18164* #
NAS 1.60:2251 ..... 04 p0480 N84-13162* #
NAS 1.60:2253 ..... 09 p1251 N84-18165* #
NAS 1.60:2254 ..... 11 p1729 N84-21277* #
NAS 1.60:2255 ..... 10 p1439 N84-19393* #
NAS 1.60:2256 ..... 17 p2599 N84-26660* #
NAS 1.60:2257 ..... 04 p0543 N84-13577* #
NAS 1.60:2258 ..... 05 p0702 N84-14606* #
NAS 1.60:2259 ..... 06 p0907 N84-15894* #
NAS 1.60:2260 ..... 09 p1342 N84-18764* #
NAS 1.60:2261 ..... 10 p1549 N84-20155* #
NAS 1.60:2262 ..... 08 p1103 N84-17175* #
NAS 1.60:2263 ..... 06 p0834 N84-15427* #
NAS 1.60:2264 ..... 06 p0906 N84-15880* #
NAS 1.60:2265 ..... 08 p1096 N84-17127* #
NAS 1.60:2266 ..... 07 p0953 N84-16181* #
NAS 1.60:2267 ..... 07 p0977 N84-16334* #
NAS 1.60:2268 ..... 08 p1156 N84-17525* #
NAS 1.60:2269 ..... 11 p1601 N84-20486* #

NAS 1.60:2270 ..... 08 p1097 N84-17132* #
NAS 1.60:2271 ..... 11 p1760 N84-21485* #
NAS 1.60:2272 ..... 09 p1329 N84-18675* #
NAS 1.60:2273 ..... 09 p1250 N84-18159* #
NAS 1.60:2274 ..... 09 p1324 N84-18653* #
NAS 1.60:2275 ..... 09 p1325 N84-18654* #
NAS 1.60:2276 ..... 11 p1642 N84-20735* #
NAS 1.60:2277 ..... 11 p1646 N84-20759* #
NAS 1.60:2278 ..... 09 p1281 N84-18370* #
NAS 1.60:2279 ..... 09 p1286 N84-18399* #
NAS 1.60:2280 ..... 08 p1130 N84-17350* #
NAS 1.60:2281 ..... 08 p1102 N84-17165* #
NAS 1.60:2282 ..... 09 p1250 N84-18161* #
NAS 1.60:2283 ..... 14 p2110 N84-23652* #
NAS 1.60:2285 ..... 09 p1286 N84-18400* #
NAS 1.60:2286 ..... 12 p1801 N84-21740* #
NAS 1.60:2287 ..... 11 p1645 N84-20758* #
NAS 1.60:2288 ..... 10 p1595 N84-20457* #
NAS 1.60:2289 ..... 12 p1796 N84-21716* #
NAS 1.60:2290 ..... 12 p1797 N84-21721* #
NAS 1.60:2291 ..... 10 p1427 N84-19333* #
NAS 1.60:2292 ..... 11 p1600 N84-20480* #
NAS 1.60:2293 ..... 14 p2115 N84-23675* #
NAS 1.60:2294 ..... 12 p1771 N84-21549* #
NAS 1.60:2295 ..... 10 p1464 N84-19564* #
NAS 1.60:2296 ..... 11 p1614 N84-20562* #
NAS 1.60:2297 ..... 11 p1602 N84-20493* #
NAS 1.60:2298 ..... 12 p1826 N84-21901* #
NAS 1.60:2299 ..... 12 p1866 N84-22162* #
NAS 1.60:2300 ..... 12 p1770 N84-21542* #
NAS 1.60:2301 ..... 11 p1626 N84-20643* #
NAS 1.60:2302 ..... 17 p2617 N84-26749* #
NAS 1.60:2303 ..... 21 p3446 N84-31865* #
NAS 1.60:2304 ..... 15 p2260 N84-24578* #
NAS 1.60:2305 ..... 12 p1903 N84-22396* #
NAS 1.60:2306 ..... 15 p2254 N84-24538* #
NAS 1.60:2308 ..... 15 p2403 N84-25422* #
NAS 1.60:2309 ..... 22 p3536 N84-32388* #
NAS 1.60:2310 ..... 17 p2762 N84-27543* #
NAS 1.60:2311 ..... 16 p2451 N84-25717* #
NAS 1.60:2312 ..... 14 p2127 N84-23750* #
NAS 1.60:2313 ..... 14 p2178 N84-24044* #
NAS 1.60:2314 ..... 14 p2115 N84-23677* #
NAS 1.60:2315 ..... 14 p2115 N84-23676* #
NAS 1.60:2316 ..... 14 p2129 N84-23764* #
NAS 1.60:2317 ..... 14 p2131 N84-23774* #
NAS 1.60:2318 ..... 16 p2486 N84-25944* #
NAS 1.60:2319 ..... 19 p2992 N84-28958* #
NAS 1.60:2320 ..... 22 p3546 N84-32446* #
NAS 1.60:2321 ..... 14 p2150 N84-23878* #
NAS 1.60:2322 ..... 18 p2923 N84-28538* #
NAS 1.60:2323 ..... 14 p2144 N84-23852* #
NAS 1.60:2324 ..... 16 p2501 N84-26053* #
NAS 1.60:2325 ..... 14 p2251 N84-24520* #
NAS 1.60:2326 ..... 22 p3537 N84-32394* #
NAS 1.60:2327 ..... 21 p3328 N84-31111* #
NAS 1.60:2328 ..... 18 p2785 N84-27675* #
NAS 1.60:2330 ..... 18 p2785 N84-27676* #
NAS 1.60:2331 ..... 15 p2409 N84-25458* #
NAS 1.60:2332 ..... 14 p2189 N84-24114* #
NAS 1.60:2333 ..... 22 p3531 N84-32354* #
NAS 1.60:2335 ..... 23 p3688 N84-33377* #
NAS 1.60:2337 ..... 16 p2556 N84-26398* #
NAS 1.60:2338 ..... 17 p2622 N84-26783* #
NAS 1.60:2339 ..... 21 p3365 N84-31349* #
NAS 1.60:2340 ..... 19 p2967 N84-28801* #
NAS 1.60:2341 ..... 18 p2923 N84-28539* #
NAS 1.60:2342 ..... 19 p2997 N84-28989* #
NAS 1.60:2343 ..... 24 p3912 N84-34773* #
NAS 1.60:2344 ..... 19 p3070 N84-29479* #
NAS 1.60:2346 ..... 23 p3816 N84-34198* #
NAS 1.60:2347 ..... 21 p3408 N84-31617* #
NAS 1.60:2348 ..... 23 p3689 N84-33379* #
NAS 1.60:2349 ..... 21 p3399 N84-31561* #
NAS 1.60:2351 ..... 19 p2958 N84-28750* #
NAS 1.60:2353 ..... 22 p3534 N84-32378* #
NAS 1.60:2354 ..... 19 p2993 N84-28965* #
NAS 1.60:2355 ..... 19 p3031 N84-29226* #
NAS 1.60:2356 ..... 21 p3491 N84-32124* #
NAS 1.60:2360 ..... 21 p3369 N84-31379* #
NAS 1.60:2361 ..... 23 p3700 N84-33452* #
NAS 1.60:2362 ..... 23 p3723 N84-33590* #
NAS 1.60:2366 ..... 23 p3817 N84-34204* #
NAS 1.60:2367 ..... 22 p3603 N84-32824* #
NAS 1.60:2368 ..... 22 p3603 N84-32825* #
NAS 1.60:2377 ..... 23 p3711 N84-33521* #
NAS 1.60:3775 ..... 14 p2104 N84-23623* #
NAS 1.61:1089 ..... 23 p3760 N84-33832* #
NAS 1.61:1108 ..... 04 p0517 N84-13397* #
NAS 1.61:1109 ..... 21 p3525 N84-32330*
NAS 1.61:1115 ..... 19 p3069 N84-29465* #
NAS 1.61:1116 ..... 07 p1036 N84-16720* #
NAS 1.61:1117 ..... 18 p2785 N84-27674* #
NAS 1.61:1118 ..... 16 p2574 N84-26520* #
NAS 1.61:1119 ..... 16 p2574 N84-26519* #
NAS 1.61:1120 ..... 23 p3836 N84-34332* #
NAS 1.61:1121 ..... 14 p2119 N84-23698* #
NAS 1.61:1123 ..... 17 p2675 N84-27041* #
NAS 1.61:1124 ..... 17 p2617 N84-26751* #
NAS 1.61:1126 ..... 21 p3413 N84-31640* #
NAS 1.61:1131 ..... 23 p3726 N84-33613* #
NAS 1.71:ARC-11423-1 ..... 23 p3691 N84-33394*
NAS 1.71:ARC-11534-1 ..... 22 p3633 N84-33021* #
NAS 1.71:GSC-12682-1 ..... 23 p3749 N84-33765*
NAS 1.71:LAR-12518-1 ..... 22 p3535 N84-32383* #
NAS 1.71:LAR-12884 ..... 23 p3700 N84-33450*
NAS 1.71:LAR-13135-1 ..... 24 p3887 N84-34616* #
NAS 1.71:LAR-13147-1 ..... 22 p3598 N84-32787* #
NAS 1.71:LAR-13220-1 ..... 22 p3598 N84-32786* #
NAS 1.71:LAR-13230-1 ..... 24 p3878 N84-34571*
NAS 1.71:LAR-13233-1 ..... 23 p3692 N84-33400* #
NAS 1.71:LAR-13257-1 ..... 22 p3546 N84-32447* #
NAS 1.71:LAR-13270-1 ..... 22 p3558 N84-32532* #
NAS 1.71:LEW-12995-1 ..... 23 p3756 N84-33808*
NAS 1.71:LEW-13495-1 ..... 23 p3734 N84-33663*
NAS 1.71:LEW-13524-1 ..... 23 p3694 N84-33410*
NAS 1.71:LEW-13639-1 ..... 23 p3716 N84-33555*
NAS 1.71:LEW-13773-2 ..... 22 p3597 N84-32782* #
NAS 1.71:LEW-14028-1 ..... 22 p3616 N84-32909* #
NAS 1.71:LEW-14037-1 ..... 22 p3542 N84-32425* #
NAS 1.71:LEW-14057-1 ..... 23 p3724 N84-33595* #
NAS 1.71:MFS-25302-2 ..... 23 p3734 N84-33660*
NAS 1.71:MFS-25717-1 ..... 23 p3749 N84-33768*
NAS 1.71:MFS-25852-1 ..... 23 p3734 N84-33661*
NAS 1.71:MFS-25862-2 ..... 23 p3756 N84-33807*
NAS 1.71:MFS-25868-1 ..... 22 p3581 N84-32680* #
NAS 1.71:MFS-25905-2 ..... 22 p3564 N84-32569* #
NAS 1.71:MFS-25962-1 ..... 22 p3538 N84-32398* #
NAS 1.71:MFS-25978-1 ..... 22 p3616 N84-32913* #
NAS 1.71:MSC-20148-1 ..... 22 p3603 N84-32823* #
NAS 1.71:MSC-20497-1 ..... 24 p3899 N84-34692* #
NAS 1.71:MSC-20635-1 ..... 22 p3542 N84-32424* #
NAS 1.71:MSC-20812-1 ..... 22 p3592 N84-32748* #
NAS 1.71:NPO-13556-1 ..... 23 p3749 N84-33766*
NAS 1.71:NPO-15341-1 ..... 23 p3750 N84-33769*
NAS 1.71:NPO-15419-2 ..... 22 p3616 N84-32910* #
NAS 1.71:NPO-15519-1 ..... 24 p3893 N84-34651*
NAS 1.71:NPO-15558-1 ..... 24 p3901 N84-34705*
NAS 1.71:NPO-15644-1 ..... 23 p3749 N84-33767*
NAS 1.71:NPO-15753-1 ..... 23 p3723 N84-33589*
NAS 1.71:NPO-15808-1 ..... 24 p3916 N84-34792*
NAS 1.71:NPO-16045-1 ..... 22 p3662 N84-33211* #
NAS 1.71:NPO-16103-1 ..... 22 p3558 N84-32530* #
NAS 1.71:NPO-16126-1 ..... 22 p3616 N84-32911* #
NAS 1.71:NPO-16256-1 ..... 22 p3572 N84-32620* #
NAS 1.71:NPO-16294-1 ..... 22 p3656 N84-33179* #
NAS 1.71:NPO-16392-1 ..... 22 p3616 N84-32912* #

NASA-CASE-ARC-11359-1 ..... 18 p2894 N84-28361*
NASA-CASE-ARC-11361-1 ..... 13 p1993 N84-22934*
NASA-CASE-ARC-11368-3 ..... 13 p1961 N84-22745*
NASA-CASE-ARC-11370-1 ..... 13 p1962 N84-22750*
NASA-CASE-ARC-11400-1 ..... 05 p0657 N84-14322*
NASA-CASE-ARC-11402-1 ..... 13 p1961 N84-22744*
NASA-CASE-ARC-11405-1 ..... 18 p2817 N84-27884*
NASA-CASE-ARC-11418-1 ..... 02 p0187 N84-11213*
NASA-CASE-ARC-11421-1 ..... 07 p0978 N84-16340* #
NASA-CASE-ARC-11422-1 ..... 11 p1657 N84-20808* #
NASA-CASE-ARC-11423-1 ..... 23 p3691 N84-33394*
NASA-CASE-ARC-11426-1 ..... 03 p0338 N84-12193* #
NASA-CASE-ARC-11428-1 ..... 13 p1953 N84-22697* #
NASA-CASE-ARC-11429-1-CU ..... 07 p0979 N84-16341* #
NASA-CASE-ARC-11502-1 ..... 16 p2557 N84-26400* #
NASA-CASE-ARC-11503-1 ..... 13 p2019 N84-23093* #
NASA-CASE-ARC-11504-1 ..... 07 p0960 N84-16221* #
NASA-CASE-ARC-11505-1 ..... 13 p1939 N84-22612* #
NASA-CASE-ARC-11506-1 ..... 03 p0356 N84-12313* #
NASA-CASE-ARC-11510-1 ..... 15 p2335 N84-25015* #
NASA-CASE-ARC-11511-1 ..... 07 p0966 N84-16259* #
NASA-CASE-ARC-11512-1 ..... 11 p1637 N84-20702* #
NASA-CASE-ARC-11534-1 ..... 22 p3633 N84-33021* #

NASA-CASE-FRC-11068-1 ..... 03 p0375 N84-12443*

NASA-CASE-GSC-12447-2 ..... 18 p2916 N84-28491*
NASA-CASE-GSC-12508-1 ..... 13 p1929 N84-22546*
NASA-CASE-GSC-12550-1 ..... 18 p2848 N84-28082*
NASA-CASE-GSC-12565-1 ..... 05 p0686 N84-14509*
NASA-CASE-GSC-12567-1 ..... 13 p1985 N84-22887*
NASA-CASE-GSC-12592-1 ..... 18 p2845 N84-28065*
NASA-CASE-GSC-12619-1 ..... 03 p0382 N84-12491*
NASA-CASE-GSC-12622-1 ..... 03 p0383 N84-12492*
NASA-CASE-GSC-12640-1 ..... 02 p0293 N84-11920*
NASA-CASE-GSC-12645-1 ..... 07 p0996 N84-16454*
NASA-CASE-GSC-12650-1 ..... 05 p0673 N84-14421*
NASA-CASE-GSC-12652-1 ..... 24 p3936 N84-34913*
NASA-CASE-GSC-12682-1 ..... 23 p3749 N84-33765*
NASA-CASE-GSC-12756-1 ..... 13 p2042 N84-23248*
NASA-CASE-GSC-12762-1 ..... 18 p2848 N84-28083*
NASA-CASE-GSC-12771-1 ..... 05 p0678 N84-14461*
NASA-CASE-GSC-12849-1 ..... 06 p0917 N84-15960* #
NASA-CASE-GSC-12880-1 ..... 11 p1632 N84-20670* #

NASA-CASE-GSC-12883-1 ..... 15 p2300 N84-24806* #
NASA-CASE-GSC-12897-1 ..... 15 p2407 N84-25450* #
NASA-CASE-GSC-12899-1 ..... 19 p3011 N84-29085* #
NASA-CASE-GSC-12911-1 ..... 15 p2335 N84-25016* #
NASA-CASE-GSC-12913-1 ..... 15 p2301 N84-24807* #

NASA-CASE-KSC-11155-1 ..... 06 p0829 N84-15395* #
NASA-CASE-KSC-11304-1 ..... 19 p3001 N84-29017* #

NASA-CASE-LAR-11903-2 ..... 05 p0742 N84-14873*
NASA-CASE-LAR-12007-3 ..... 07 p1006 N84-16523*
NASA-CASE-LAR-12396-1 ..... 19 p2956 N84-28732*
NASA-CASE-LAR-12518-1 ..... 22 p3535 N84-32383* #
NASA-CASE-LAR-12541-1 ..... 13 p1930 N84-22551*
NASA-CASE-LAR-12615-1 ..... 03 p0330 N84-12154*
NASA-CASE-LAR-12630-1 ..... 18 p2795 N84-27733*
NASA-CASE-LAR-12638-1 ..... 05 p0629 N84-14132*
NASA-CASE-LAR-12644-1 ..... 18 p2848 N84-28084*
NASA-CASE-LAR-12650-1 ..... 18 p2899 N84-28388*
NASA-CASE-LAR-12650-2 ..... 18 p2899 N84-28389*
NASA-CASE-LAR-12686-1 ..... 05 p0683 N84-14491*
NASA-CASE-LAR-12706-1 ..... 03 p0375 N84-12444*
NASA-CASE-LAR-12723-2 ..... 13 p1962 N84-22746*
NASA-CASE-LAR-12738-2 ..... 06 p0795 N84-15180* #
NASA-CASE-LAR-12743-1 ..... 18 p2639 N84-28019*
NASA-CASE-LAR-12751-1 ..... 07 p0961 N84-16231*
NASA-CASE-LAR-12785-1 ..... 07 p1011 N84-16561*
NASA-CASE-LAR-12786-1 ..... 18 p2848 N84-28085*
NASA-CASE-LAR-12807-1 ..... 02 p0187 N84-11214*
NASA-CASE-LAR-12843-1 ..... 02 p0173 N84-11136*
NASA-CASE-LAR-12862-1 ..... 18 p2817 N84-27886*
NASA-CASE-LAR-12870-1 ..... 07 p1009 N84-16542*
NASA-CASE-LAR-12881-1 ..... 05 p0658 N84-14323*
NASA-CASE-LAR-12882-1 ..... 03 p0375 N84-12445*
NASA-CASE-LAR-12884-1 ..... 23 p3700 N84-33450*
NASA-CASE-LAR-12887-1 ..... 11 p1627 N84-20649* #
NASA-CASE-LAR-12923-1 ..... 03 p0383 N84-12493*
NASA-CASE-LAR-12931-1 ..... 13 p1962 N84-22747*
NASA-CASE-LAR-12950-1 ..... 24 p3856 N84-34448*
NASA-CASE-LAR-12958-1 ..... 13 p2007 N84-23019*
NASA-CASE-LAR-12967-1 ..... 13 p1993 N84-22932*
NASA-CASE-LAR-12971-1 ..... 18 p2883 N84-28292*
NASA-CASE-LAR-12980-1 ..... 13 p1962 N84-22749*
NASA-CASE-LAR-12984-1 ..... 11 p1607 N84-20522* #
NASA-CASE-LAR-12995-1 ..... 13 p1993 N84-22933*
NASA-CASE-LAR-13019-1 ..... 11 p1602 N84-20495* #
NASA-CASE-LAR-13028-1 ..... 11 p1694 N84-21053* #
NASA-CASE-LAR-13040-1 ..... 19 p3026 N84-29191* #
NASA-CASE-LAR-13117-1 ..... 07 p0964 N84-16250* #
NASA-CASE-LAR-13118-1 ..... 19 p2997 N84-28968* #
NASA-CASE-LAR-13135-1 ..... 24 p3887 N84-34616* #
NASA-CASE-LAR-13147-1 ..... 22 p3598 N84-32787* #
NASA-CASE-LAR-13153-1 ..... 11 p1728 N84-21274* #
NASA-CASE-LAR-13155-1 ..... 11 p1624 N84-20628* #
NASA-CASE-LAR-13169-1 ..... 15 p2343 N84-25063* #
NASA-CASE-LAR-13174-1 ..... 15 p2404 N84-25431* #
NASA-CASE-LAR-13220-1 ..... 22 p3598 N84-32786* #
NASA-CASE-LAR-13226-1 ..... 11 p1636 N84-20700* #
NASA-CASE-LAR-13230-1 ..... 24 p3878 N84-34571*
NASA-CASE-LAR-13233-1 ..... 23 p3692 N84-33400* #
NASA-CASE-LAR-13243-1 ..... 11 p1656 N84-20804* #
NASA-CASE-LAR-13250-1 ..... 11 p1664 N84-20859* #
NASA-CASE-LAR-13255-1 ..... 03 p0320 N84-12092* #
NASA-CASE-LAR-13257-1 ..... 22 p3546 N84-32447* #
NASA-CASE-LAR-13262-1 ..... 15 p2300 N84-24805* #
NASA-CASE-LAR-13270-1 ..... 22 p3558 N84-32532* #
NASA-CASE-LAR-13316-1 ..... 19 p2996 N84-28987* #

NASA-CASE-LEW-12590-1 ..... 13 p1997 N84-22958*
NASA-CASE-LEW-12919-2 ..... 18 p2928 N84-28565*
NASA-CASE-LEW-12995-1 ..... 23 p3756 N84-33808*
NASA-CASE-LEW-13107-2 ..... 13 p2019 N84-23095*
NASA-CASE-LEW-13269-2 ..... 13 p1997 N84-22957*
NASA-CASE-LEW-13286-1 ..... 05 p0673 N84-14422*
NASA-CASE-LEW-13349-1 ..... 13 p1960 N84-22734*
NASA-CASE-LEW-13426-1 ..... 07 p0969 N84-16276*
NASA-CASE-LEW-13495-1 ..... 23 p3734 N84-33663*
NASA-CASE-LEW-13506-1 ..... 13 p1932 N84-22562* #
NASA-CASE-LEW-13524-1 ..... 23 p3694 N84-33410*
NASA-CASE-LEW-13526-1 ..... 13 p1995 N84-22944*
NASA-CASE-LEW-13570-1 ..... 07 p0995 N84-16452*
NASA-CASE-LEW-13598-1 ..... 13 p1992 N84-22930*
NASA-CASE-LEW-13622-1 ..... 13 p1931 N84-22559*
NASA-CASE-LEW-13639-1 ..... 23 p3716 N84-33555*
NASA-CASE-LEW-13639-2 ..... 18 p2813 N84-27855*
NASA-CASE-LEW-13653-1 ..... 18 p2868 N84-28205*
NASA-CASE-LEW-13654-1 ..... 13 p1931 N84-22560*
NASA-CASE-LEW-13670-1 ..... 13 p1997 N84-22959* #
NASA-CASE-LEW-13736-1 ..... 18 p2831 N84-27974*
NASA-CASE-LEW-13758-1 ..... 18 p2808 N84-27829*
NASA-CASE-LEW-13770-1 ..... 18 p2817 N84-27885*
NASA-CASE-LEW-13770-3 ..... 13 p1953 N84-22698* #
NASA-CASE-LEW-13770-4 ..... 13 p1953 N84-22699* #
NASA-CASE-LEW-13770-5 ..... 13 p1953 N84-22700* #
NASA-CASE-LEW-13770-6 ..... 13 p1953 N84-22701* #
NASA-CASE-LEW-13773-2 ..... 22 p3597 N84-32782* #

NASA-CASE-LEW-13822-1 ..... 19 p3011 N84-29084* #
NASA-CASE-LEW-13826-2 ..... 15 p2284 N84-24711* #
NASA-CASE-LEW-13828-1 ..... 06 p0798 N84-15203* #
NASA-CASE-LEW-13837-1 ..... 13 p1953 N84-22895*
NASA-CASE-LEW-13837-2 ..... 13 p1953 N84-22896* #
NASA-CASE-LEW-13914-1 ..... 03 p0376 N84-12447* #
NASA-CASE-LEW-13922-1 ..... 02 p0212 N84-11389* #
NASA-CASE-LEW-13923-1 ..... 07 p0967 N84-16268* #
NASA-CASE-LEW-14028-1 ..... 22 p3615 N84-32909* #
NASA-CASE-LEW-14035-1 ..... 15 p2260 N84-24577*
NASA-CASE-LEW-14037-1 ..... 22 p3542 N84-32425* #
NASA-CASE-LEW-14039-1 ..... 11 p1651 N84-20782* #
NASA-CASE-LEW-14053-1 ..... 13 p1932 N84-22563* #
NASA-CASE-LEW-14057-1 ..... 23 p3724 N84-33595* #
NASA-CASE-LEW-14077-1 ..... 11 p1673 N84-20918* #
NASA-CASE-LEW-14080-1 ..... 19 p2996 N84-28986* #

NASA-CASE-MFS-15429-1 ..... 13 p1939 N84-22609* #
NASA-CASE-MFS-25211-2 ..... 05 p0673 N84-14423*
NASA-CASE-MFS-25302-2 ..... 23 p3734 N84-33660*
NASA-CASE-MFS-25323-1 ..... 13 p1985 N84-22886*
NASA-CASE-MFS-25405-1 ..... 13 p1992 N84-22929*
NASA-CASE-MFS-25430-1 ..... 07 p0995 N84-16453*
NASA-CASE-MFS-25477-1 ..... 05 p0673 N84-14424*
NASA-CASE-MFS-25510-1 ..... 07 p1011 N84-16560*
NASA-CASE-MFS-25535-2 ..... 13 p1985 N84-22885*
NASA-CASE-MFS-25616-1 ..... 07 p0996 N84-16455*
NASA-CASE-MFS-25631-1 ..... 03 p0370 N84-12406*
NASA-CASE-MFS-25641-1 ..... 18 p2929 N84-28575*
NASA-CASE-MFS-25678-1 ..... 02 p0228 N84-11497*
NASA-CASE-MFS-25687-1 ..... 13 p1992 N84-22928*
NASA-CASE-MFS-25717-1 ..... 23 p3749 N84-33768*
NASA-CASE-MFS-25740-1 ..... 02 p0265 N84-11744*
NASA-CASE-MFS-25828-1 ..... 18 p2928 N84-28568*
NASA-CASE-MFS-25852-1 ..... 23 p3734 N84-33661*
NASA-CASE-MFS-25853-1 ..... 18 p2802 N84-27784*
NASA-CASE-MFS-25854-1 ..... 18 p2832 N84-27975*
NASA-CASE-MFS-25862-2 ..... 23 p3756 N84-33807*
NASA-CASE-MFS-25868-1 ..... 22 p3581 N84-32680* #
NASA-CASE-MFS-25878-1 ..... 18 p2803 N84-27787*
NASA-CASE-MFS-25905-2 ..... 22 p3564 N84-32569* #
NASA-CASE-MFS-25906-1 ..... 02 p0269 N84-11761* #
NASA-CASE-MFS-25910-1 ..... 02 p0199 N84-11297* #
NASA-CASE-MFS-25942-1 ..... 07 p1089 N84-17084* #
NASA-CASE-MFS-25946-1 ..... 06 p0796 N84-15183* #
NASA-CASE-MFS-25949-1 ..... 02 p0229 N84-11501* #
NASA-CASE-MFS-25956-1 ..... 11 p1664 N84-20860* #
NASA-CASE-MFS-25962-1 ..... 22 p3538 N84-32398* #
NASA-CASE-MFS-25963-1 ..... 07 p1007 N84-16531* #
NASA-CASE-MFS-25978-1 ..... 22 p3616 N84-32913* #
NASA-CASE-MFS-26000-1 ..... 07 p1075 N84-16986* #
NASA-CASE-MFS-256704-1 ..... 13 p1985 N84-22884*

NASA-CASE-MRS-25791-1 ..... 18 p2797 N84-27749*

NASA-CASE-MSC-16170-2 ..... 18 p2828 N84-27952*
NASA-CASE-MSC-16934-3 ..... 07 p0966 N84-16262*
NASA-CASE-MSC-18223-2 ..... 02 p0269 N84-11758*
NASA-CASE-MSC-18382-2 ..... 05 p0658 N84-14324*
NASA-CASE-MSC-18417-1 ..... 13 p2042 N84-23251* #
NASA-CASE-MSC-18675-1 ..... 13 p1975 N84-22820*
NASA-CASE-MSC-18969-1 ..... 13 p1938 N84-22605*
NASA-CASE-MSC-20036-1 ..... 12 p1912 N84-22457* #
NASA-CASE-MSC-20148-1 ..... 22 p3603 N84-32823* #
NASA-CASE-MSC-20202-1 ..... 07 p1050 N84-16803*
NASA-CASE-MSC-20254-1 ..... 13 p1938 N84-22601*
NASA-CASE-MSC-20258-1 ..... 18 p2916 N84-28492*
NASA-CASE-MSC-20261-1 ..... 18 p2915 N84-28484*
NASA-CASE-MSC-20261-2 ..... 13 p2022 N84-23113*
NASA-CASE-MSC-20497-1 ..... 24 p3899 N84-34692* #
NASA-CASE-MSC-20505-1 ..... 13 p1939 N84-22611* #
NASA-CASE-MSC-20543-1 ..... 13 p1939 N84-22610* #
NASA-CASE-MSC-20622-1 ..... 13 p1937 N84-22596* #
NASA-CASE-MSC-20635-1 ..... 22 p3542 N84-32424* #
NASA-CASE-MSC-20812-1 ..... 22 p3592 N84-32748* #

NASA-CASE-NFS-25754-1 ..... 18 p2839 N84-28018*

NASA-CASE-NPO-13556-1 ..... 23 p3749 N84-33766*
NASA-CASE-NPO-14597-2 ..... 18 p2848 N84-28081*
NASA-CASE-NPO-15024-1 ..... 18 p2827 N84-27951*
NASA-CASE-NPO-15100-1 ..... 05 p0698 N84-14583*
NASA-CASE-NPO-15161-1 ..... 07 p0996 N84-16456*
NASA-CASE-NPO-15210-1 ..... 13 p1955 N84-22709*
NASA-CASE-NPO-15264-1 ..... 18 p2791 N84-27713*
NASA-CASE-NPO-15341-1 ..... 23 p3750 N84-33769*
NASA-CASE-NPO-15345-1 ..... 13 p2042 N84-23247*
NASA-CASE-NPO-15351-2 ..... 24 p3855 N84-34443*
NASA-CASE-NPO-15375-1 ..... 02 p0293 N84-11921*
NASA-CASE-NPO-15388-1 ..... 18 p2867 N84-28203*
NASA-CASE-NPO-15398-1 ..... 13 p1992 N84-22931*
NASA-CASE-NPO-15419-2 ..... 22 p3616 N84-32910* #
NASA-CASE-NPO-15423-1 ..... 18 p2838 N84-28016*
NASA-CASE-NPO-15426-1 ..... 08 p1161 N84-17555*
NASA-CASE-NPO-15458-1 ..... 03 p0348 N84-12262*
NASA-CASE-NPO-15465-1 ..... 13 p1988 N84-22903*

NASA-CASE-NPO-15494-2 13 p1993 N84-22935* #
NASA-CASE-NPO-15496-1 13 p2007 N84-23018*
NASA-CASE-NPO-15516-1 13 p1994 N84-22943*
NASA-CASE-NPO-15519-1 24 p3893 N84-34651*
NASA-CASE-NPO-15547-1 07 p1071 N84-16959* #
NASA-CASE-NPO-15558-1 24 p3901 N84-34705*
NASA-CASE-NPO-15560-1 07 p1076 N84-16993* #
NASA-CASE-NPO-15592-1 07 p1069 N84-16940*
NASA-CASE-NPO-15629-1 24 p3966 N84-35113*
NASA-CASE-NPO-15640-1 13 p1962 N84-22748*
NASA-CASE-NPO-15644-1 23 p3749 N84-33767*
NASA-CASE-NPO-15656-1 13 p2006 N84-23012* #
NASA-CASE-NPO-15662-1 18 p2867 N84-28204*
NASA-CASE-NPO-15689-1 13 p2039 N84-23233*
NASA-CASE-NPO-15706-1 18 p2838 N84-28017*
NASA-CASE-NPO-15753-1 23 p3723 N84-33589*
NASA-CASE-NPO-15767-1 07 p0965 N84-16255*
NASA-CASE-NPO-15786-1 24 p3966 N84-35112* #
NASA-CASE-NPO-15805-1 18 p2932 N84-28590*
NASA-CASE-NPO-15808-1 24 p3916 N84-34792*
NASA-CASE-NPO-15811-1 03 p0451 N84-12968* #
NASA-CASE-NPO-15890-1 06 p0849 N84-15536* #
NASA-CASE-NPO-15903-1 03 p0403 N84-12635* #
NASA-CASE-NPO-15926-1 03 p0352 N84-12289* #
NASA-CASE-NPO-16024-1 13 p2007 N84-23020* #
NASA-CASE-NPO-16030-1 15 p2339 N84-25037* #
NASA-CASE-NPO-16045-1 22 p3662 N84-33211* #
NASA-CASE-NPO-16103-1 22 p3558 N84-32530* #
NASA-CASE-NPO-16112-1 03 p0378 N84-12483* #
NASA-CASE-NPO-16116-1 15 p2385 N84-25306* #
NASA-CASE-NPO-16126-1 22 p3616 N84-32911* #
NASA-CASE-NPO-16142-1 07 p1070 N84-16948* #
NASA-CASE-NPO-16147-1 07 p1070 N84-16949* #
NASA-CASE-NPO-16155-1 11 p1673 N84-20917* #
NASA-CASE-NPO-16171-1-CU 03 p0330 N84-12151* #
NASA-CASE-NPO-16236-1 15 p2361 N84-25164* #
NASA-CASE-NPO-16256-1 22 p3572 N84-32620* #
NASA-CASE-NPO-16257-1 15 p2305 N84-24830* #
NASA-CASE-NPO-16271-1 06 p0849 N84-15537* #
NASA-CASE-NPO-16294-1 22 p3656 N84-33179* #
NASA-CASE-NPO-16392-1 22 p3616 N84-32912* #

NASA-CASE-NSTL-10 03 p0406 N84-12654*

NASA-CASE-WLP-10055-1 18 p2838 N84-28015*
NASA-CASE-WLP-10055-2 03 p0376 N84-12448* #

NASA-CP-2206 18 p2783 N84-27660* #
NASA-CP-2211 18 p2787 N84-27686* #
NASA-CP-2234 19 p3096 N84-29662* #
NASA-CP-2272 12 p1869 N84-22179* #
NASA-CP-2275-VOL-1 16 p2950 N84-28709* #
NASA-CP-2275-VOL-3 21 p3523 N84-32318* #
NASA-CP-2279 03 p0311 N84-12029* #
NASA-CP-2280 03 p0466 N84-13067* #
NASA-CP-2282 01 p0009 N84-10055* #
NASA-CP-2283-PT-1 01 p0018 N84-10115* #
NASA-CP-2283-PT-2 01 p0023 N84-10144* #
NASA-CP-2284 06 p0858 N84-15590* #
NASA-CP-2285 02 p0167 N84-11099* #
NASA-CP-2286 02 p0262 N84-11720* #
NASA-CP-2287 06 p0818 N84-15327* #
NASA-CP-2290 03 p0343 N84-12228* #
NASA-CP-2292 04 p0562 N84-13706* #
NASA-CP-2293 09 p1268 N84-18277* #
NASA-CP-2294 08 p1109 N84-17211* #
NASA-CP-2295 10 p1558 N84-20208* #
NASA-CP-2296 11 p1615 N84-20567* #
NASA-CP-2297 21 p3419 N84-31686* #
NASA-CP-2299 09 p1351 N84-18829* #
NASA-CP-2300-VOL-1 14 p2152 N84-23891* #
NASA-CP-2300-VOL-2 15 p2340 N84-25047* #
NASA-CP-2301 12 p1689 N84-22299* #
NASA-CP-2302 12 p1904 N84-22402* #
NASA-CP-2303 17 p2711 N84-27262* #
NASA-CP-2304 11 p1747 N84-21403* #
NASA-CP-2305 09 p1335 N84-18716* #
NASA-CP-2307 14 p2106 N84-23630* #
NASA-CP-2309 11 p1608 N84-20525* #
NASA-CP-2310 17 p2778 N84-27635* #
NASA-CP-2311 15 p2346 N84-25078* #
NASA-CP-2314 19 p3043 N84-29307* #
NASA-CP-2316 20 p3256 N84-30665* #
NASA-CP-2317 18 p2839 N84-28020* #
NASA-CP-2318 22 p3622 N84-32952* #
NASA-CP-2320 18 p2855 N84-28131* #
NASA-CP-2321 20 p3145 N84-29969* #
NASA-CP-2323 22 p3671 N84-33266* #
NASA-CP-2324 18 p2799 N84-27758* #
NASA-CP-2325 20 p3222 N84-30475* #
NASA-CP-2326-VOL-1 20 p3205 N84-30359* #
NASA-CP-2326-VOL-2 20 p3208 N84-30380* #
NASA-CP-2328 22 p3609 N84-32864* #
NASA-CP-2329 24 p3923 N84-34829* #
NASA-CP-2331 23 p3735 N84-33668* #
NASA-CP-2333 23 p3841 N84-34363* #
NASA-CP-2337 24 p3881 N84-34589* #
NASA-CP-2340 24 p3861 N84-34468* #
NASA-CP-2343-PT-1 23 p3841 N84-34366* #
NASA-CP-2343-PT-2 23 p3842 N84-34376* #

NASA-CR-3248 16 p2438 N84-25641* #
NASA-CR-3250 19 p2957 N84-28741* #
NASA-CR-3251 18 p2788 N84-27697* #
NASA-CR-3252 18 p2788 N84-27698* #
NASA-CR-3254 23 p3690 N84-33388* #
NASA-CR-3290 18 p2792 N84-27722* #
NASA-CR-3376 23 p3690 N84-33386* #
NASA-CR-3457 19 p2957 N84-28740* #
NASA-CR-3468 18 p2792 N84-27720* #
NASA-CR-3469 18 p2786 N84-27683* #
NASA-CR-3472 18 p2792 N84-27721* #
NASA-CR-3503 18 p2788 N84-27695* #
NASA-CR-3517 18 p2810 N84-27836* #
NASA-CR-3519 18 p2792 N84-27723* #
NASA-CR-3523 19 p2957 N84-28742* #
NASA-CR-3524 19 p2955 N84-28727* #
NASA-CR-3530 19 p2956 N84-28736* #
NASA-CR-3545 18 p2796 N84-27744* #
NASA-CR-3585 19 p2963 N84-28777* #
NASA-CR-3586 23 p3693 N84-33402* #
NASA-CR-3621 11 p1651 N84-20781* #
NASA-CR-3676 08 p1096 N84-17130* #
NASA-CR-3690 07 p0966 N84-16258* #
NASA-CR-3698 08 p1114 N84-17248* #
NASA-CR-3699 04 p0486 N84-13194* #
NASA-CR-3700 09 p1254 N84-18183* #
NASA-CR-3706 02 p0193 N84-11253* #
NASA-CR-3720 02 p0187 N84-11218* #
NASA-CR-3721 06 p0781 N84-15114* #
NASA-CR-3726 08 p1099 N84-17149* #
NASA-CR-3727 03 p0320 N84-12091* #
NASA-CR-3729 03 p0388 N84-12530* #
NASA-CR-3730 11 p1600 N84-20479* #
NASA-CR-3731 04 p0532 N84-13501* #
NASA-CR-3734 01 p0089 N84-10583* #
NASA-CR-3735 01 p0090 N84-10584* #
NASA-CR-3736 01 p0089 N84-10582* #
NASA-CR-3737 04 p0566 N84-13730* #
NASA-CR-3738 07 p0958 N84-16212* #
NASA-CR-3740 02 p0193 N84-11258* #
NASA-CR-3741 06 p0784 N84-15135* #
NASA-CR-3742 04 p0486 N84-13195* #
NASA-CR-3743 02 p0174 N84-11144* #
NASA-CR-3744 01 p0139 N84-10912* #
NASA-CR-3745 13 p1939 N84-22608* #
NASA-CR-3749 05 p0689 N84-14525* #
NASA-CR-3750 05 p0689 N84-14526* #
NASA-CR-3751 04 p0488 N84-13208* #
NASA-CR-3752 04 p0567 N84-13736* #
NASA-CR-3753 06 p0797 N84-15196* #
NASA-CR-3754 08 p1096 N84-17129* #
NASA-CR-3756 06 p0854 N84-15565* #
NASA-CR-3757 07 p1074 N84-16984* #
NASA-CR-3758 19 p3096 N84-29661* #
NASA-CR-3759 09 p1312 N84-18572* #
NASA-CR-3760 09 p1265 N84-18262* #
NASA-CR-3761 06 p0834 N84-15425* #
NASA-CR-3763 06 p0781 N84-15115* #
NASA-CR-3764 08 p1097 N84-17131* #
NASA-CR-3765 09 p1312 N84-18571* #
NASA-CR-3766 06 p0877 N84-15706* #
NASA-CR-3768 06 p0858 N84-15587* #
NASA-CR-3769 07 p1000 N84-16488* #
NASA-CR-3770 08 p1168 N84-17606* #
NASA-CR-3771 06 p0881 N84-15729* #
NASA-CR-3772 17 p2617 N84-26750* #
NASA-CR-3773 10 p1516 N84-19924* #
NASA-CR-3774 07 p1009 N84-16544* #
NASA-CR-3776 08 p1104 N84-17178* #
NASA-CR-3777 08 p1106 N84-17189* #
NASA-CR-3778 11 p1731 N84-21293* #
NASA-CR-3780 11 p1600 N84-20482* #
NASA-CR-3782 11 p1758 N84-21474* #
NASA-CR-3783 09 p1385 N84-19044* #
NASA-CR-3784 11 p1627 N84-20648* #
NASA-CR-3785 11 p1602 N84-20494* #
NASA-CR-3786 09 p1385 N84-19048* #
NASA-CR-3787 09 p1348 N84-18805* #
NASA-CR-3788 11 p1628 N84-20654* #
NASA-CR-3789 11 p1728 N84-21275* #
NASA-CR-3790 10 p1516 N84-19925* #
NASA-CR-3791 20 p3126 N84-29854* #
NASA-CR-3792 16 p2485 N84-25941* #
NASA-CR-3793 16 p2498 N84-26027* #
NASA-CR-3794 17 p2617 N84-26752* #
NASA-CR-3795 17 p2743 N84-27417* #
NASA-CR-3796 17 p2743 N84-27416* #
NASA-CR-3797 12 p1899 N84-22365* #
NASA-CR-3798 14 p2119 N84-23697* #
NASA-CR-3799 14 p2168 N84-23987* #
NASA-CR-3800 20 p3200 N84-30328* #

NASA-CR-3801 ..... 16 p2537 N84-26291* #
NASA-CR-3802 ..... 20 p3132 N84-29888* #
NASA-CR-3803 ..... 16 p2554 N84-26384* #
NASA-CR-3804 ..... 16 p2486 N84-25943* #
NASA-CR-3807 ..... 20 p3277 N84-30601* #
NASA-CR-3809 ..... 21 p3325 N84-31097* #
NASA-CR-3810 ..... 21 p3426 N84-31732* #
NASA-CR-3811 ..... 20 p3126 N84-29853* #
NASA-CR-3812 ..... 19 p3057 N84-29397* #
NASA-CR-3813 ..... 19 p3099 N84-29687* #
NASA-CR-3814 ..... 19 p2958 N84-28749* #
NASA-CR-3815 ..... 21 p3357 N84-31290* #
NASA-CR-3817 ..... 19 p3057 N84-29398* #
NASA-CR-3819 ..... 21 p3446 N84-31866* #
NASA-CR-3820 ..... 23 p3800 N84-34090* #
NASA-CR-3821 ..... 23 p3689 N84-33378* #
NASA-CR-3822 ..... 21 p3344 N84-31216* #
NASA-CR-3823 ..... 21 p3491 N84-32123* #
NASA-CR-3826 ..... 24 p3921 N84-34815* #
NASA-CR-3827 ..... 23 p3696 N84-33422* #
NASA-CR-3828 ..... 21 p3344 N84-31217* #
NASA-CR-3829 ..... 21 p3344 N84-31218* #
NASA-CR-3832 ..... 23 p3694 N84-33412* #
NASA-CR-3833 ..... 22 p3531 N84-32355* #
NASA-CR-3835 ..... 22 p3624 N84-32965* #
NASA-CR-152186 ..... 10 p1419 N84-19281* #
NASA-CR-157639 ..... 19 p2965 N84-28915* #
NASA-CR-158927 ..... 22 p3533 N84-32367* #
NASA-CR-159173 ..... 19 p3020 N84-29150* #
NASA-CR-159327 ..... 23 p3695 N84-33418* #
NASA-CR-159332 ..... 19 p2956 N84-28735* #
NASA-CR-159389 ..... 23 p3693 N84-33403* #
NASA-CR-161231 ..... 21 p3352 N84-31264* #
NASA-CR-161590 ..... 21 p3352 N84-31263* #
NASA-CR-161927 ..... 21 p3352 N84-31265* #
NASA-CR-161963 ..... 22 p3592 N84-32749* #
NASA-CR-161977 ..... 18 p2832 N84-27978* #
NASA-CR-161978 ..... 18 p2832 N84-27979* #
NASA-CR-161988 ..... 19 p3011 N84-29087* #
NASA-CR-162008 ..... 19 p3012 N84-29094* #
NASA-CR-162032 ..... 19 p3073 N84-29499* #
NASA-CR-162039 ..... 19 p3012 N84-29089* #
NASA-CR-162040 ..... 19 p3012 N84-29090* #
NASA-CR-162041 ..... 19 p3012 N84-29091* #
NASA-CR-162049 ..... 20 p3152 N84-30015* #
NASA-CR-162071 ..... 19 p3011 N84-29088* #
NASA-CR-162713 ..... 19 p2963 N84-28776* #
NASA-CR-163048 ..... 19 p2979 N84-28884* #
NASA-CR-163114 ..... 18 p2813 N84-27860* #
NASA-CR-165325 ..... 15 p2301 N84-24809* #
NASA-CR-165428 ..... 06 p0790 N84-15154* #
NASA-CR-165429 ..... 02 p0231 N84-11514* #
NASA-CR-165430 ..... 02 p0231 N84-11515* #
NASA-CR-165466 ..... 18 p2795 N84-27737* #
NASA-CR-165567 ..... 18 p2796 N84-27739* #
NASA-CR-165592 ..... 18 p2795 N84-27738* #
NASA-CR-165597 ..... 11 p1753 N84-21445* #
NASA-CR-165608 ..... 19 p2965 N84-28788* #
NASA-CR-165631-VOL-1 ..... 19 p2967 N84-28802* #
NASA-CR-165631-VOL-2 ..... 19 p2967 N84-28803* #
NASA-CR-165800 ..... 23 p3690 N84-33387* #
NASA-CR-165807 ..... 18 p2786 N84-27685* #
NASA-CR-165816 ..... 19 p3020 N84-29151* #
NASA-CR-165824 ..... 19 p3073 N84-29501* #
NASA-CR-165831 ..... 18 p2920 N84-28516* #
NASA-CR-165832 ..... 18 p2920 N84-28515* #
NASA-CR-165874 ..... 21 p3463 N84-31955* #
NASA-CR-165875 ..... 19 p3073 N84-29498* #
NASA-CR-165920 ..... 19 p2967 N84-28804* #
NASA-CR-165922 ..... 02 p0222 N84-11459* #
NASA-CR-165925 ..... 18 p2836 N84-28002* #
NASA-CR-165928 ..... 19 p2963 N84-28778* #
NASA-CR-165949 ..... 23 p3695 N84-33416* #
NASA-CR-165951 ..... 19 p2967 N84-28805* #
NASA-CR-165997 ..... 23 p3746 N84-33749* #
NASA-CR-166008 ..... 15 p2385 N84-25307* #
NASA-CR-166018 ..... 11 p1600 N84-20481* #
NASA-CR-166055 ..... 01 p0012 N84-10078* #
NASA-CR-166065 ..... 01 p0030 N84-10188* #
NASA-CR-166096 ..... 12 p1876 N84-22227* #
NASA-CR-166268 ..... 18 p2788 N84-27693* #
NASA-CR-166269 ..... 19 p2961 N84-28767* #
NASA-CR-166270 ..... 19 p2956 N84-28738* #
NASA-CR-166271 ..... 19 p2958 N84-28737* #
NASA-CR-166276 ..... 18 p2817 N84-27888* #
NASA-CR-166309 ..... 19 p2968 N84-28806* #
NASA-CR-166317 ..... 23 p3814 N84-34187* #
NASA-CR-166442-VOL-1 ..... 17 p2600 N84-26662* #
NASA-CR-166442-VOL-2 ..... 17 p2600 N84-26663* #
NASA-CR-166462 ..... 11 p1603 N84-20501* #
NASA-CR-166463 ..... 08 p1245 N84-18136* #
NASA-CR-166464 ..... 08 p1245 N84-18137* #
NASA-CR-166474 ..... 08 p1202 N84-17838* #
NASA-CR-166491 ..... 01 p0004 N84-10024* #
NASA-CR-166506 ..... 06 p0905 N84-15877* #
NASA-CR-166510 ..... 13 p2070 N84-23411* #
NASA-CR-166519 ..... 16 p2451 N84-25716* #
NASA-CR-166524 ..... 07 p0947 N84-16147* #
NASA-CR-166526 ..... 09 p1256 N84-18196* #
NASA-CR-166528 ..... 04 p0480 N84-13159* #
NASA-CR-166529 ..... 04 p0480 N84-13158* #
NASA-CR-166530 ..... 16 p2445 N84-25684* #
NASA-CR-166531 ..... 08 p1216 N84-17936* #
NASA-CR-166533 ..... 04 p0480 N84-13157* #
NASA-CR-166534 ..... 10 p1425 N84-19317* #
NASA-CR-166538 ..... 08 p1205 N84-17857* #
NASA-CR-166539 ..... 08 p1205 N84-17856* #
NASA-CR-166540 ..... 08 p1205 N84-17855* #
NASA-CR-166541 ..... 08 p1156 N84-17528* #
NASA-CR-166542 ..... 08 p1156 N84-17526* #
NASA-CR-166544 ..... 08 p1227 N84-18015* #
NASA-CR-166545 ..... 08 p1156 N84-17527* #
NASA-CR-166546 ..... 08 p1155 N84-17519* #
NASA-CR-166547 ..... 08 p1097 N84-17133* #
NASA-CR-166548 ..... 08 p1143 N84-17433* #
NASA-CR-166549 ..... 17 p2751 N84-27460* #
NASA-CR-166560 ..... 10 p1552 N84-20174* #
NASA-CR-166561 ..... 11 p1600 N84-20478* #
NASA-CR-166562 ..... 10 p1501 N84-19813* #
NASA-CR-166563 ..... 10 p1525 N84-19988* #
NASA-CR-166565-PT-1 ..... 17 p2757 N84-27503* #
NASA-CR-166565-PT-2 ..... 17 p2666 N84-27002* #
NASA-CR-166565-PT-3 ..... 17 p2667 N84-27003* #
NASA-CR-166567 ..... 11 p1614 N84-20564* #
NASA-CR-166569 ..... 12 p1828 N84-21915* #
NASA-CR-166570 ..... 24 p3852 N84-34431* #
NASA-CR-166572 ..... 16 p2438 N84-25842* #
NASA-CR-166573 ..... 17 p2603 N84-26679* #
NASA-CR-166574 ..... 12 p1879 N84-22243* #
NASA-CR-166575 ..... 12 p1765 N84-21511* #
NASA-CR-166578 ..... 21 p3358 N84-31285* #
NASA-CR-166579 ..... 19 p3020 N84-29148* #
NASA-CR-166580 ..... 22 p3531 N84-32356* #
NASA-CR-166581 ..... 21 p3464 N84-31962* #
NASA-CR-166583 ..... 18 p2836 N84-27999* #
NASA-CR-166584 ..... 18 p2844 N84-28057* #
NASA-CR-166585 ..... 17 p2671 N84-27025* #
NASA-CR-166586 ..... 19 p3026 N84-29192* #
NASA-CR-166588 ..... 22 p3538 N84-32399* #
NASA-CR-166589 ..... 21 p3412 N84-31637* #
NASA-CR-166589-PT-1 ..... 21 p3412 N84-31634* #
NASA-CR-166589-PT-2 ..... 21 p3412 N84-31635* #
NASA-CR-166589-PT-3 ..... 21 p3412 N84-31636* #
NASA-CR-166593 ..... 21 p3503 N84-32201* #
NASA-CR-166594 ..... 21 p3345 N84-31219* #
NASA-CR-166596 ..... 23 p3810 N84-34160* #
NASA-CR-166597 ..... 21 p3355 N84-31284* #
NASA-CR-166599 ..... 23 p3723 N84-33592* #
NASA-CR-166600 ..... 23 p3723 N84-33591* #
NASA-CR-166602 ..... 24 p3852 N84-34428* #
NASA-CR-166603 ..... 24 p3852 N84-34429* #
NASA-CR-166604 ..... 24 p3852 N84-34430* #
NASA-CR-166605 ..... 24 p3902 N84-34708* #
NASA-CR-166607 ..... 24 p3911 N84-34771* #
NASA-CR-167684 ..... 13 p1938 N84-22603* #
NASA-CR-167685 ..... 21 p3352 N84-31261* #
NASA-CR-167686 ..... 21 p3351 N84-31260* #
NASA-CR-167689 ..... 24 p3860 N84-34484*
NASA-CR-167781 ..... 17 p2777 N84-27630* #
NASA-CR-167881 ..... 02 p0241 N84-11580* #
NASA-CR-167890-EXEC-SUM ..... 13 p2008 N84-23021* #
NASA-CR-167916 ..... 06 p0873 N84-15679* #
NASA-CR-167926 ..... 05 p0631 N84-14148* #
NASA-CR-167927 ..... 06 p0790 N84-15153* #
NASA-CR-167973 ..... 19 p2965 N84-28789* #
NASA-CR-167980 ..... 02 p0179 N84-11170* #
NASA-CR-167989 ..... 01 p0042 N84-10268* #
NASA-CR-168004 ..... 02 p0189 N84-11228* #
NASA-CR-168005 ..... 20 p3130 N84-29675* #
NASA-CR-168053 ..... 01 p0069 N84-10450* #
NASA-CR-168056 ..... 01 p0089 N84-10581* #
NASA-CR-168062 ..... 01 p0061 N84-10402* #
NASA-CR-168063 ..... 01 p0061 N84-10403* #
NASA-CR-168064 ..... 01 p0061 N84-10404* #
NASA-CR-168076 ..... 02 p0212 N84-11385* #
NASA-CR-168081 ..... 01 p0052 N84-10332* #
NASA-CR-168112 ..... 01 p0069 N84-10451* #
NASA-CR-168131 ..... 01 p0102 N84-10663* #
NASA-CR-168133 ..... 09 p1274 N84-18321* #
NASA-CR-168135 ..... 21 p3434 N84-31784* #
NASA-CR-168139 ..... 01 p0009 N84-10054* #
NASA-CR-168156 ..... 19 p2983 N84-28901* #
NASA-CR-168159 ..... 02 p0241 N84-11581* #
NASA-CR-168172 ..... 09 p1274 N84-18322* #
NASA-CR-168176 ..... 04 p0486 N84-13193* #
NASA-CR-168177 ..... 07 p1088 N84-17073* #
NASA-CR-168178 ..... 04 p0617 N84-14071* #
NASA-CR-168179 ..... 06 p0812 N84-15283* #
NASA-CR-168181 ..... 15 p2361 N84-25162* #
NASA-CR-168183 ..... 05 p0699 N84-14587* #
NASA-CR-168191-VOL-1 ..... 01 p0094 N84-10613* #
NASA-CR-168191-VOL-2 ..... 01 p0094 N84-10614* #

NASA-CR-168193-VOL-1 ..... 03 p0343 N84-12226* #
NASA-CR-168193-VOL-2 ..... 04 p0490 N84-13218* #
NASA-CR-168196 ..... 04 p0524 N84-13443* #
NASA-CR-168203 ..... 09 p1341 N84-18757* #
NASA-CR-168205 ..... 08 p1242 N84-18117* #
NASA-CR-168206 ..... 01 p0029 N84-10180* #
NASA-CR-168210 ..... 19 p2998 N84-28995* #
NASA-CR-168217 ..... 11 p1636 N84-20695* #
NASA-CR-168218 ..... 06 p0805 N84-15247* #
NASA-CR-168221 ..... 10 p1471 N84-19606* #
NASA-CR-168224 ..... 02 p0189 N84-11229* #
NASA-CR-168225 ..... 01 p0094 N84-10612* #
NASA-CR-168227 ..... 04 p0508 N84-13332* #
NASA-CR-168229 ..... 01 p0102 N84-10661* #
NASA-CR-168231 ..... 07 p0991 N84-16423* #
NASA-CR-168232 ..... 07 p0991 N84-16424* #
NASA-CR-168233 ..... 04 p0505 N84-13310* #
NASA-CR-168234-VOL-1 ..... 22 p3652 N84-33148* #
NASA-CR-168234-VOL-2 ..... 22 p3652 N84-33149* #
NASA-CR-168234-VOL-3 ..... 22 p3652 N84-33150* #
NASA-CR-168235 ..... 06 p0852 N84-15554* #
NASA-CR-168236 ..... 05 p0666 N84-14376* #
NASA-CR-168237 ..... 05 p0666 N84-14377* #
NASA-CR-168238 ..... 05 p0666 N84-14378* #
NASA-CR-168239 ..... 04 p0557 N84-13673* #
NASA-CR-168240 ..... 08 p1149 N84-17477* #
NASA-CR-168242 ..... 18 p2821 N84-27909* #
NASA-CR-168243-VOL-1 ..... 03 p0348 N84-12264* #
NASA-CR-168243-VOL-2 ..... 03 p0348 N84-12265* #
NASA-CR-168244 ..... 21 p3390 N84-31514* #
NASA-CR-168247 ..... 02 p0175 N84-11152* #
NASA-CR-168248 ..... 01 p0017 N84-10109* #
NASA-CR-168251 ..... 03 p0355 N84-12312* #
NASA-CR-168252 ..... 08 p1156 N84-17530* #
NASA-CR-168253 ..... 15 p2327 N84-24973* #
NASA-CR-168254 ..... 04 p0517 N84-13398* #
NASA-CR-168255 ..... 22 p3676 N84-33304* #
NASA-CR-168256 ..... 21 p3521 N84-32306* #
NASA-CR-168257 ..... 21 p3521 N84-32307* #
NASA-CR-168258 ..... 04 p0485 N84-13186*
NASA-CR-168260 ..... 04 p0498 N84-13265* #
NASA-CR-168261 ..... 10 p1450 N84-19472* #
NASA-CR-168262 ..... 02 p0212 N84-11388* #
NASA-CR-168263 ..... 03 p0370 N84-12411* #
NASA-CR-168265 ..... 01 p0102 N84-10662* #
NASA-CR-168266 ..... 03 p0343 N84-12227* #
NASA-CR-168267-VOL-1 ..... 07 p1007 N84-16529* #
NASA-CR-168268 ..... 15 p2361 N84-25163* #
NASA-CR-168269 ..... 14 p2141 N84-23841* #
NASA-CR-168270 ..... 07 p0991 N84-16426* #
NASA-CR-168272 ..... 05 p0699 N84-14585* #
NASA-CR-168273 ..... 08 p1149 N84-17481* #
NASA-CR-168275 ..... 21 p3325 N84-31095* #
NASA-CR-168276 ..... 07 p0997 N84-16463* #
NASA-CR-168277 ..... 03 p0343 N84-12225* #
NASA-CR-168278 ..... 04 p0485 N84-13189* #
NASA-CR-168279 ..... 05 p0630 N84-14143* #
NASA-CR-168280 ..... 02 p0231 N84-11513* #
NASA-CR-168282 ..... 07 p0947 N84-16146* #
NASA-CR-168283 ..... 04 p0531 N84-13490* #
NASA-CR-168284 ..... 06 p0873 N84-15662* #
NASA-CR-168286 ..... 21 p3413 N84-31641* #
NASA-CR-168288 ..... 07 p0947 N84-16145* #
NASA-CR-168292 ..... 09 p1406 N84-19185* #
NASA-CR-168293 ..... 04 p0485 N84-13187* #
NASA-CR-168294 ..... 04 p0557 N84-13672* #
NASA-CR-168296-VOL-1 ..... 06 p0790 N84-15155* #
NASA-CR-168296-VOL-2 ..... 06 p0790 N84-15156* #
NASA-CR-168297 ..... 22 p3596 N84-32790* #
NASA-CR-168298 ..... 15 p2362 N84-25169* #
NASA-CR-168299 ..... 05 p0761 N84-14991* #
NASA-CR-168304 ..... 05 p0679 N84-14462* #
NASA-CR-168305 ..... 09 p1290 N84-18419* #
NASA-CR-168306 ..... 10 p1529 N84-20014* #
NASA-CR-168308 ..... 05 p0652 N84-14287* #
NASA-CR-168309 ..... 11 p1673 N84-20915* #
NASA-CR-168310 ..... 07 p0985 N84-16381* #
NASA-CR-168317 ..... 10 p1516 N84-19927* #
NASA-CR-168318 ..... 19 p3050 N84-29357* #
NASA-CR-168319 ..... 21 p3433 N84-31783* #
NASA-CR-168320 ..... 11 p1625 N84-20634* #
NASA-CR-168321 ..... 11 p1636 N84-20699* #
NASA-CR-168322 ..... 09 p1313 N84-18578* #
NASA-CR-168323 ..... 06 p0789 N84-15151* #
NASA-CR-168324 ..... 09 p1319 N84-18620* #
NASA-CR-168326 ..... 11 p1642 N84-20737* #
NASA-CR-168327 ..... 07 p0991 N84-16425* #
NASA-CR-168328 ..... 07 p0963 N84-16243* #
NASA-CR-168330 ..... 06 p0790 N84-15152* #
NASA-CR-168331 ..... 08 p1139 N84-17410* #
NASA-CR-168332 ..... 08 p1096 N84-17139* #
NASA-CR-168333 ..... 09 p1289 N84-18418* #
NASA-CR-168334 ..... 08 p1139 N84-17407* #
NASA-CR-168335 ..... 09 p1306 N84-18536* #
NASA-CR-168336-VOL-1 ..... 14 p2220 N84-24323* #
NASA-CR-168336-VOL-2 ..... 14 p2220 N84-24324* #
NASA-CR-168340 ..... 10 p1450 N84-19467* #
NASA-CR-168347 ..... 18 p2844 N84-28059* #
NASA-CR-170405 ..... 04 p0487 N84-13197* #
NASA-CR-170406 ..... 05 p0633 N84-14158* #
NASA-CR-170407 ..... 11 p1614 N84-20565* #
NASA-CR-170408 ..... 05 p0761 N84-14990* #
NASA-CR-170409 ..... 08 p1103 N84-17173* #
NASA-CR-170410 ..... 08 p1103 N84-17174* #
NASA-CR-170411 ..... 15 p2264 N84-24593* #
NASA-CR-170412 ..... 11 p1605 N84-20512* #
NASA-CR-170413 ..... 08 p1170 N84-17620* #
NASA-CR-170414 ..... 18 p2793 N84-27724* #
NASA-CR-170416 ..... 12 p1771 N84-21551* #
NASA-CR-170482 ..... 06 p0934 N84-16071* #
NASA-CR-170514 ..... 13 p2026 N84-23134* #
NASA-CR-170547 ..... 06 p0934 N84-16072* #
NASA-CR-170548 ..... 06 p0934 N84-16073* #
NASA-CR-170550 ..... 06 p0935 N84-16074* #
NASA-CR-170584 ..... 02 p0239 N84-11569* #
NASA-CR-170585 ..... 02 p0277 N84-11817* #
NASA-CR-170591 ..... 01 p0099 N84-10645* #
NASA-CR-170593 ..... 02 p0238 N84-11559* #
NASA-CR-170601 ..... 02 p0305 N84-12004* #
NASA-CR-170602 ..... 02 p0305 N84-11999* #
NASA-CR-170603 ..... 02 p0207 N84-11352* #
NASA-CR-170604 ..... 02 p0279 N84-11829* #
NASA-CR-170605 ..... 02 p0207 N84-11353* #
NASA-CR-170608 ..... 02 p0213 N84-11390* #
NASA-CR-170610 ..... 02 p0230 N84-11508* #
NASA-CR-170611 ..... 02 p0209 N84-11361* #
NASA-CR-170612 ..... 06 p0849 N84-15535* #
NASA-CR-170616 ..... 16 p2581 N84-26553* #
NASA-CR-170618 ..... 16 p2581 N84-26552* #
NASA-CR-170619 ..... 21 p3464 N84-31960* #
NASA-CR-170620 ..... 21 p3464 N84-31961* #
NASA-CR-170695 ..... 01 p0029 N84-10182* #
NASA-CR-170899 ..... 01 p0028 N84-10174* #
NASA-CR-170901 ..... 01 p0029 N84-10181* #
NASA-CR-170902 ..... 01 p0027 N84-10171* #
NASA-CR-170903 ..... 08 p1170 N84-17622* #
NASA-CR-170904 ..... 08 p1169 N84-17615* #
NASA-CR-170907 ..... 01 p0164 N84-11077* #
NASA-CR-170908 ..... 04 p0566 N84-13731* #
NASA-CR-170909 ..... 04 p0566 N84-13732* #
NASA-CR-170913 ..... 01 p0028 N84-10175* #
NASA-CR-170914 ..... 01 p0028 N84-10176* #
NASA-CR-170915 ..... 02 p0244 N84-11595* #
NASA-CR-170916 ..... 02 p0190 N84-11231* #
NASA-CR-170919 ..... 04 p0488 N84-13207* #
NASA-CR-170920 ..... 02 p0308 N84-12021* #
NASA-CR-170921 ..... 03 p0383 N84-12495* #
NASA-CR-170922 ..... 03 p0346 N84-12248* #
NASA-CR-170923 ..... 03 p0371 N84-12413* #
NASA-CR-170934 ..... 03 p0371 N84-12415* #
NASA-CR-170935 ..... 03 p0341 N84-12213* #
NASA-CR-170936 ..... 03 p0355 N84-12311* #
NASA-CR-170937 ..... 03 p0466 N84-13066* #
NASA-CR-170939 ..... 03 p0403 N84-12634* #
NASA-CR-170940 ..... 10 p1573 N84-20304* #
NASA-CR-170941 ..... 06 p0941 N84-16112* #
NASA-CR-170942 ..... 06 p0927 N84-16022* #
NASA-CR-170943 ..... 06 p0834 N84-15428* #
NASA-CR-170947 ..... 06 p0881 N84-15732* #
NASA-CR-170948 ..... 06 p0938 N84-16097* #
NASA-CR-170949 ..... 06 p0794 N84-15171* #
NASA-CR-170950 ..... 06 p0917 N84-15959* #
NASA-CR-170951 ..... 06 p0847 N84-15522* #
NASA-CR-170952 ..... 06 p0847 N84-15521* #
NASA-CR-170953 ..... 06 p0793 N84-15165* #
NASA-CR-170957 ..... 06 p0809 N84-15267* #
NASA-CR-170958 ..... 06 p0885 N84-15755* #
NASA-CR-170959 ..... 07 p1079 N84-17017* #
NASA-CR-170960 ..... 08 p1121 N84-17287* #
NASA-CR-170961 ..... 07 p0965 N84-16251* #
NASA-CR-170962 ..... 08 p1155 N84-17522* #
NASA-CR-170965 ..... 09 p1364 N84-18909* #
NASA-CR-170968 ..... 08 p1102 N84-17167* #
NASA-CR-170969 ..... 08 p1115 N84-17249* #
NASA-CR-170972 ..... 08 p1115 N84-17251* #
NASA-CR-170973 ..... 08 p1102 N84-17166* #
NASA-CR-170974 ..... 08 p1180 N84-17686* #
NASA-CR-170976 ..... 08 p1163 N84-17574* #
NASA-CR-170977 ..... 09 p1260 N84-18225* #
NASA-CR-170978 ..... 08 p1246 N84-18147* #
NASA-CR-170979 ..... 11 p1656 N84-20805* #
NASA-CR-170980 ..... 08 p1107 N84-17196* #
NASA-CR-170981 ..... 09 p1366 N84-18918* #
NASA-CR-170982 ..... 09 p1256 N84-18201* #
NASA-CR-170984 ..... 10 p1434 N84-19377* #
NASA-CR-170985 ..... 09 p1372 N84-18960* #
NASA-CR-170986 ..... 10 p1501 N84-19814* #
NASA-CR-170987 ..... 10 p1438 N84-19389* #
NASA-CR-170989 ..... 12 p1779 N84-21606* #
NASA-CR-170990 ..... 12 p1814 N84-21827* #
NASA-CR-170991 ..... 10 p1502 N84-19815* #
NASA-CR-170992 ..... 11 p1652 N84-20783* #

NASA-CR-170993 ..... 11 p1623 N84-20625* #
NASA-CR-170994 ..... 12 p1867 N84-22168* #
NASA-CR-170995 ..... 11 p1624 N84-20631* #
NASA-CR-170996 ..... 10 p1438 N84-19392* #
NASA-CR-170998 ..... 11 p1705 N84-21117* #
NASA-CR-170999 ..... 11 p1625 N84-20635* #
NASA-CR-171000 ..... 11 p1625 N84-20636* #
NASA-CR-171001 ..... 11 p1625 N84-20637* #
NASA-CR-171002 ..... 11 p1625 N84-20638* #
NASA-CR-171003 ..... 13 p2039 N84-23234* #
NASA-CR-171004 ..... 13 p1939 N84-22607* #
NASA-CR-171005 ..... 13 p1988 N84-22908* #
NASA-CR-171006 ..... 13 p1997 N84-22960* #
NASA-CR-171012 ..... 13 p1963 N84-22752* #
NASA-CR-171013 ..... 13 p1938 N84-22602* #
NASA-CR-171014 ..... 13 p1940 N84-22614* #
NASA-CR-171016 ..... 13 p1940 N84-22613* #
NASA-CR-171017 ..... 15 p2335 N84-25018* #
NASA-CR-171023 ..... 15 p2370 N84-25217* #
NASA-CR-171025 ..... 15 p2389 N84-25334* #
NASA-CR-171026 ..... 15 p2389 N84-25335* #
NASA-CR-171027 ..... 16 p2457 N84-25752* #
NASA-CR-171028 ..... 15 p2281 N84-24699* #
NASA-CR-171029 ..... 15 p2371 N84-25222* #
NASA-CR-171030 ..... 14 p2127 N84-23752* #
NASA-CR-171031 ..... 15 p2368 N84-25205* #
NASA-CR-171032 ..... 15 p2367 N84-25204* #
NASA-CR-171034 ..... 15 p2286 N84-24716* #
NASA-CR-171035 ..... 15 p2428 N84-25584* #
NASA-CR-171038 ..... 15 p2412 N84-25481* #
NASA-CR-171039 ..... 15 p2340 N84-25046* #
NASA-CR-171048 ..... 19 p2997 N84-28993* #
NASA-CR-171051 ..... 19 p3001 N84-29018* #
NASA-CR-171066 ..... 19 p3012 N84-29092* #
NASA-CR-171076 ..... 19 p3020 N84-29147* #
NASA-CR-171078 ..... 19 p3021 N84-29153* #
NASA-CR-171080 ..... 19 p3053 N84-29374* #
NASA-CR-171090 ..... 19 p2980 N84-28887* #
NASA-CR-171094 ..... 19 p2983 N84-28900* #
NASA-CR-171099 ..... 19 p3026 N84-29194* #
NASA-CR-171100 ..... 19 p3012 N84-29093* #
NASA-CR-171108 ..... 21 p3504 N84-32202* #
NASA-CR-171109 ..... 21 p3446 N84-31863* #
NASA-CR-171113 ..... 21 p3430 N84-31763* #
NASA-CR-171114 ..... 21 p3398 N84-31553* #
NASA-CR-171115 ..... 21 p3398 N84-31552* #
NASA-CR-171116 ..... 21 p3442 N84-31836* #
NASA-CR-171117 ..... 21 p3442 N84-31835* #
NASA-CR-171118 ..... 20 p3201 N84-30334* #
NASA-CR-171119 ..... 20 p3234 N84-30529* #
NASA-CR-171120 ..... 21 p3460 N84-31944* #
NASA-CR-171121 ..... 21 p3352 N84-31266* #
NASA-CR-171122 ..... 21 p3404 N84-31594* #
NASA-CR-171123 ..... 20 p3134 N84-29902* #
NASA-CR-171124 ..... 21 p3346 N84-31225* #
NASA-CR-171125 ..... 22 p3597 N84-32781* #
NASA-CR-171126 ..... 22 p3597 N84-32780* #
NASA-CR-171127 ..... 21 p3442 N84-31837* #
NASA-CR-171128 ..... 22 p3622 N84-32949* #
NASA-CR-171129 ..... 21 p3464 N84-31958* #
NASA-CR-171130 ..... 21 p3382 N84-31459* #
NASA-CR-171132 ..... 21 p3351 N84-31258* #
NASA-CR-171133 ..... 21 p3498 N84-32168* #
NASA-CR-171136 ..... 22 p3643 N84-33097* #
NASA-CR-171137 ..... 21 p3354 N84-31273* #
NASA-CR-171138 ..... 21 p3465 N84-31966* #
NASA-CR-171140 ..... 21 p3523 N84-32317* #
NASA-CR-171142 ..... 21 p3405 N84-31598* #
NASA-CR-171143 ..... 21 p3405 N84-31599* #
NASA-CR-171144 ..... 23 p3718 N84-33566* #
NASA-CR-171147 ..... 23 p3756 N84-33811* #
NASA-CR-171148 ..... 23 p3698 N84-33432* #
NASA-CR-171152 ..... 23 p3750 N84-33773* #
NASA-CR-171153 ..... 23 p3698 N84-33433* #
NASA-CR-171156 ..... 23 p3698 N84-33434* #
NASA-CR-171157 ..... 23 p3827 N84-34275* #
NASA-CR-171158 ..... 24 p3858 N84-34457* #
NASA-CR-171162 ..... 23 p3756 N84-33810* #
NASA-CR-171163 ..... 23 p3838 N84-34351* #
NASA-CR-171696 ..... 03 p0392 N84-12557* #
NASA-CR-171702 ..... 01 p0099 N84-10643* #
NASA-CR-171703 ..... 01 p0099 N84-10646* #
NASA-CR-171704 ..... 01 p0100 N84-10647* #
NASA-CR-171710 ..... 02 p0308 N84-12018* #
NASA-CR-171712 ..... 02 p0205 N84-11335* #
NASA-CR-171713 ..... 02 p0202 N84-11319* #
NASA-CR-171714 ..... 02 p0202 N84-11318* #
NASA-CR-171715 ..... 04 p0552 N84-13635* #
NASA-CR-171717 ..... 03 p0417 N84-12725* #
NASA-CR-171718 ..... 02 p0183 N84-11188* #
NASA-CR-171724 ..... 06 p0794 N84-15174* #
NASA-CR-171725 ..... 06 p0794 N84-15175* #
NASA-CR-171726 ..... 06 p0794 N84-15176* #
NASA-CR-171727 ..... 06 p0794 N84-15177* #
NASA-CR-171728 ..... 08 p1142 N84-17431* #
NASA-CR-171729 ..... 10 p1520 N84-19953* #
NASA-CR-171730 ..... 08 p1155 N84-17523* #
NASA-CR-171731 ..... 10 p1521 N84-19958* #
NASA-CR-171732 ..... 22 p3541 N84-32416* #
NASA-CR-171733 ..... 08 p1157 N84-17531* #
NASA-CR-171734 ..... 07 p0991 N84-16421* #
NASA-CR-171735 ..... 08 p1161 N84-17556* #
NASA-CR-171736 ..... 08 p1143 N84-17434* #
NASA-CR-171738 ..... 08 p1143 N84-17435* #
NASA-CR-171739 ..... 08 p1161 N84-17559* #
NASA-CR-171740 ..... 08 p1114 N84-17244* #
NASA-CR-171741 ..... 08 p1114 N84-17245* #
NASA-CR-171742 ..... 08 p1114 N84-17246* #
NASA-CR-171745 ..... 08 p1199 N84-17820* #
NASA-CR-171746 ..... 08 p1200 N84-17821* #
NASA-CR-171748 ..... 09 p1366 N84-18919* #
NASA-CR-171749 ..... 09 p1360 N84-18886* #
NASA-CR-171755 ..... 09 p1317 N84-18607* #
NASA-CR-171756 ..... 09 p1372 N84-18958* #
NASA-CR-171758 ..... 12 p1829 N84-21927* #
NASA-CR-171759 ..... 11 p1656 N84-20806* #
NASA-CR-171760 ..... 10 p1553 N84-20177* #
NASA-CR-171761 ..... 11 p1622 N84-20618* #
NASA-CR-171762 ..... 11 p1622 N84-20619*
NASA-CR-171764 ..... 11 p1623 N84-20622* #
NASA-CR-171765 ..... 11 p1623 N84-20623* #
NASA-CR-171766 ..... 11 p1623 N84-20624* #
NASA-CR-171767 ..... 12 p1829 N84-21926* #
NASA-CR-171768 ..... 12 p1829 N84-21925* #
NASA-CR-171771 ..... 11 p1758 N84-21477* #
NASA-CR-171772 ..... 11 p1758 N84-21476* #
NASA-CR-171774 ..... 12 p1777 N84-21597* #
NASA-CR-171775 ..... 11 p1622 N84-20617* #
NASA-CR-171777 ..... 13 p1937 N84-22598* #
NASA-CR-171780 ..... 13 p2009 N84-23028* #
NASA-CR-171781 ..... 16 p2508 N84-26098* #
NASA-CR-171783 ..... 04 p0557 N84-13671* #
NASA-CR-171785 ..... 16 p2509 N84-26099* #
NASA-CR-171786 ..... 16 p2535 N84-26275* #
NASA-CR-171789 ..... 16 p2495 N84-26008* #
NASA-CR-171790 ..... 17 p2709 N84-27252* #
NASA-CR-171791 ..... 17 p2710 N84-27253* #
NASA-CR-171792 ..... 17 p2710 N84-27254* #
NASA-CR-171794 ..... 17 p2710 N84-27255* #
NASA-CR-171795 ..... 22 p3541 N84-32414* #
NASA-CR-171799 ..... 19 p3121 N84-29841* #
NASA-CR-171802 ..... 19 p3063 N84-29433* #
NASA-CR-171804 ..... 22 p3576 N84-32650* #
NASA-CR-171805 ..... 22 p3559 N84-32535* #
NASA-CR-171806 ..... 22 p3633 N84-33023* #
NASA-CR-171807 ..... 22 p3541 N84-32415* #
NASA-CR-171808 ..... 22 p3585 N84-32707* #
NASA-CR-171809 ..... 22 p3599 N84-32791* #
NASA-CR-171814 ..... 24 p3859 N84-34461* #
NASA-CR-172142 ..... 04 p0489 N84-13212* #
NASA-CR-172146 ..... 09 p1371 N84-18953* #
NASA-CR-172159 ..... 01 p0118 N84-10765* #
NASA-CR-172160 ..... 04 p0574 N84-13781* #
NASA-CR-172181 ..... 01 p0100 N84-10648* #
NASA-CR-172182 ..... 02 p0287 N84-11884* #
NASA-CR-172199 ..... 02 p0176 N84-11156* #
NASA-CR-172200 ..... 04 p0479 N84-13153* #
NASA-CR-172211 ..... 20 p3146 N84-29978* #
NASA-CR-172212 ..... 01 p0120 N84-10779* #
NASA-CR-172213 ..... 01 p0120 N84-10780* #
NASA-CR-172214 ..... 02 p0271 N84-11773* #
NASA-CR-172215 ..... 03 p0388 N84-12528* #
NASA-CR-172216 ..... 01 p0076 N84-10499* #
NASA-CR-172217 ..... 01 p0003 N84-10022* #
NASA-CR-172218 ..... 01 p0128 N84-10836* #
NASA-CR-172219 ..... 01 p0127 N84-10831* #
NASA-CR-172223 ..... 01 p0018 N84-10114* #
NASA-CR-172225 ..... 04 p0547 N84-13607* #
NASA-CR-172226 ..... 01 p0119 N84-10769* #
NASA-CR-172227 ..... 08 p1161 N84-17558* #
NASA-CR-172233 ..... 01 p0002 N84-10017* #
NASA-CR-172237 ..... 02 p0199 N84-11294* #
NASA-CR-172238 ..... 22 p3581 N84-32677* #
NASA-CR-172239 ..... 06 p0782 N84-15123* #
NASA-CR-172241 ..... 01 p0128 N84-10837* #
NASA-CR-172243 ..... 03 p0338 N84-12192* #
NASA-CR-172246 ..... 04 p0491 N84-13223* #
NASA-CR-172247 ..... 12 p1780 N84-21610* #
NASA-CR-172248 ..... 02 p0280 N84-11832* #
NASA-CR-172249 ..... 01 p0077 N84-10501* #
NASA-CR-172250 ..... 03 p0424 N84-12777* #
NASA-CR-172251 ..... 04 p0531 N84-13492* #
NASA-CR-172252 ..... 03 p0420 N84-12742* #
NASA-CR-172253 ..... 04 p0515 N84-13380* #
NASA-CR-172254 ..... 03 p0425 N84-12778* #
NASA-CR-172255 ..... 04 p0548 N84-13609* #
NASA-CR-172256 ..... 07 p1002 N84-16495* #
NASA-CR-172257 ..... 02 p0184 N84-11197* #
NASA-CR-172258 ..... 07 p0952 N84-16177* #
NASA-CR-172259 ..... 09 p1329 N84-18679* #
NASA-CR-172260 ..... 09 p1330 N84-18682* #
NASA-CR-172261 ..... 09 p1330 N84-18681* #

NASA-CR-172262 07 p1053 N84-16821* #
NASA-CR-172264 05 p0627 N84-14123* #
NASA-CR-172267 06 p0895 N84-15811* #
NASA-CR-172269 04 p0491 N84-13221* #
NASA-CR-172270 04 p0491 N84-13222* #
NASA-CR-172272 07 p1015 N84-16586* #
NASA-CR-172273 06 p0908 N84-15896* #
NASA-CR-172274 06 p0908 N84-15897* #
NASA-CR-172275 04 p0531 N84-13493* #
NASA-CR-172276 08 p1231 N84-18047* #
NASA-CR-172279 06 p0809 N84-15268* #
NASA-CR-172282 18 p2795 N84-27734* #
NASA-CR-172284 10 p1491 N84-19747* #
NASA-CR-172285 12 p1789 N84-21668* #
NASA-CR-172286 15 p2395 N84-25366* #
NASA-CR-172287 07 p0946 N84-16140* #
NASA-CR-172289 08 p1211 N84-17899* #
NASA-CR-172290 07 p1068 N84-16935* #
NASA-CR-172291 08 p1097 N84-17136* #
NASA-CR-172292 08 p1227 N84-18017* #
NASA-CR-172293 08 p1170 N84-17621* #
NASA-CR-172294 08 p1095 N84-17119* #
NASA-CR-172295 08 p1095 N84-17118* #
NASA-CR-172296 10 p1452 N84-19479* #
NASA-CR-172297 10 p1419 N84-19282* #
NASA-CR-172298 09 p1313 N84-18577* #
NASA-CR-172300 10 p1420 N84-19285* #
NASA-CR-172301 10 p1568 N84-20273* #
NASA-CR-172302 10 p1568 N84-20274* #
NASA-CR-172304 10 p1556 N84-20195* #
NASA-CR-172305 10 p1568 N84-20275* #
NASA-CR-172306 10 p1420 N84-19286* #
NASA-CR-172307 11 p1668 N84-20879* #
NASA-CR-172308 10 p1516 N84-19926* #
NASA-CR-172309 10 p1516 N84-19926* #
NASA-CR-172310 13 p1926 N84-22537* #
NASA-CR-172311 16 p2539 N84-26298* #
NASA-CR-172313 16 p2448 N84-25702* #
NASA-CR-172314 11 p1622 N84-20616* #
NASA-CR-172315 12 p1766 N84-21516* #
NASA-CR-172318 14 p2175 N84-24029* #
NASA-CR-172319 11 p1712 N84-21165* #
NASA-CR-172321 14 p2104 N84-23621* #
NASA-CR-172322 22 p3536 N84-32387* #
NASA-CR-172323 17 p2618 N84-26754* #
NASA-CR-172324 12 p1771 N84-21553* #
NASA-CR-172325 14 p2158 N84-23926* #
NASA-CR-172326 12 p1876 N84-22226* #
NASA-CR-172328 13 p1926 N84-22534* #
NASA-CR-172331 12 p1893 N84-22327* #
NASA-CR-172332 13 p1934 N84-22583* #
NASA-CR-172334 12 p1826 N84-21902* #
NASA-CR-172335 14 p2101 N84-23608* #
NASA-CR-172336 16 p2448 N84-25701* #
NASA-CR-172338 17 p2604 N84-26685* #
NASA-CR-172339 15 p2259 N84-24567* #
NASA-CR-172340 12 p1897 N84-22353* #
NASA-CR-172343 16 p2464 N84-25794* #
NASA-CR-172344 21 p3356 N84-31287* #
NASA-CR-172348 16 p2552 N84-26373* #
NASA-CR-172349 18 p2802 N84-27786* #
NASA-CR-172350 20 p3134 N84-29901* #
NASA-CR-172351 10 p1419 N84-19284* #
NASA-CR-172352 19 p2968 N84-28807* #
NASA-CR-172353 17 p2667 N84-27004* #
NASA-CR-172357 20 p3290 N84-30888* #
NASA-CR-172361 18 p2792 N84-27719* #
NASA-CR-172362 22 p3540 N84-32410* #
NASA-CR-172363 18 p2785 N84-27678* #
NASA-CR-172364 19 p2982 N84-28899* #
NASA-CR-172365 19 p3021 N84-29159* #
NASA-CR-172367 19 p3035 N84-29251* #
NASA-CR-172368 19 p3020 N84-29152* #
NASA-CR-172370 19 p3021 N84-29158* #
NASA-CR-172371 21 p3364 N84-31343* #
NASA-CR-172372 19 p3082 N84-29557* #
NASA-CR-172373 19 p3082 N84-29559* #
NASA-CR-172374 19 p2958 N84-28748* #
NASA-CR-172375 18 p2917 N84-28494* #
NASA-CR-172378 19 p3074 N84-29502* #
NASA-CR-172379 19 p3082 N84-29558* #
NASA-CR-172380 19 p3082 N84-29560* #
NASA-CR-172381 21 p3490 N84-32119* #
NASA-CR-172382 19 p3074 N84-29503* #
NASA-CR-172384 22 p3652 N84-33147* #
NASA-CR-172386 20 p3290 N84-30886* #
NASA-CR-172388 19 p3095 N84-29655* #
NASA-CR-172389 19 p3082 N84-29562* #
NASA-CR-172392 21 p3365 N84-31346* #
NASA-CR-172393 22 p3597 N84-32784* #
NASA-CR-172394 22 p3542 N84-32423* #
NASA-CR-172395 20 p3279 N84-30816* #
NASA-CR-172396 20 p3279 N84-30817* #
NASA-CR-172397 20 p3280 N84-30818* #
NASA-CR-172398 20 p3126 N84-29852* #
NASA-CR-172399 20 p3277 N84-30800* #
NASA-CR-172409 21 p3507 N84-32221* #
NASA-CR-172411 20 p3135 N84-29903* #
NASA-CR-172412 21 p3382 N84-31463* #
NASA-CR-172413 21 p3382 N84-31462* #
NASA-CR-172414 21 p3464 N84-31959* #
NASA-CR-172415 21 p3470 N84-31993* #
NASA-CR-172416 22 p3530 N84-32349* #
NASA-CR-172417 22 p3645 N84-33107* #
NASA-CR-172418 21 p3469 N84-31988* #
NASA-CR-172421 22 p3633 N84-33024* #
NASA-CR-172426 23 p3692 N84-33396* #
NASA-CR-172427 21 p3491 N84-32120* #
NASA-CR-172429 22 p3657 N84-33181* #
NASA-CR-172430 22 p3538 N84-32397* #
NASA-CR-172431 22 p3637 N84-33053* #
NASA-CR-172432 22 p3645 N84-33113* #
NASA-CR-172433 22 p3645 N84-33111* #
NASA-CR-172434 22 p3645 N84-33112* #
NASA-CR-172435 22 p3645 N84-33108* #
NASA-CR-172436 22 p3637 N84-33059* #
NASA-CR-172437 21 p3443 N84-31847* #
NASA-CR-172442 23 p3724 N84-33596* #
NASA-CR-172507 16 p2506 N84-26082* #
NASA-CR-172787 09 p1267 N84-18276* #
NASA-CR-172789 08 p1234 N84-18067* #
NASA-CR-172790 08 p1246 N84-18142* #
NASA-CR-172791 08 p1115 N84-17252* #
NASA-CR-172792 09 p1269 N84-18292* #
NASA-CR-172795 14 p2167 N84-23979* #
NASA-CR-172796 14 p2167 N84-23980* #
NASA-CR-172797 14 p2167 N84-23981* #
NASA-CR-172798 14 p2168 N84-23982* #
NASA-CR-172799 14 p2168 N84-23983* #
NASA-CR-172800 14 p2168 N84-23984* #
NASA-CR-172801 15 p2355 N84-25128* #
NASA-CR-172802 14 p2168 N84-23985* #
NASA-CR-172803 14 p2168 N84-23986* #
NASA-CR-172804 15 p2429 N84-25588* #
NASA-CR-172805 15 p2357 N84-25140* #
NASA-CR-172806 16 p2506 N84-26081* #
NASA-CR-172808 16 p2506 N84-26083* #
NASA-CR-172809 16 p2506 N84-26084* #
NASA-CR-172810 16 p2506 N84-26085* #
NASA-CR-172811 16 p2506 N84-26086* #
NASA-CR-172812 16 p2506 N84-26087* #
NASA-CR-172813 16 p2507 N84-26088* #
NASA-CR-172814 16 p2507 N84-26089* #
NASA-CR-172815 16 p2507 N84-26090* #
NASA-CR-172816 16 p2507 N84-26091* #
NASA-CR-172817 16 p2507 N84-26092* #
NASA-CR-173077 03 p0359 N84-12336* #
NASA-CR-173136 06 p0864 N84-15627* #
NASA-CR-173138 06 p0864 N84-15628* #
NASA-CR-173139 07 p1057 N84-16848* #
NASA-CR-173140 06 p0864 N84-15629* #
NASA-CR-173141 06 p0864 N84-15630* #
NASA-CR-173142 06 p0864 N84-15631* #
NASA-CR-173143 07 p1034 N84-16707* #
NASA-CR-173144 06 p0865 N84-15633* #
NASA-CR-173145 07 p0997 N84-16460* #
NASA-CR-173146 07 p1028 N84-16663* #
NASA-CR-173147 07 p1036 N84-16721* #
NASA-CR-173148 07 p1079 N84-17013* #
NASA-CR-173149 07 p1000 N84-16486* #
NASA-CR-173150 07 p1092 N84-17103* #
NASA-CR-173152 07 p0992 N84-16430* #
NASA-CR-173153 07 p1093 N84-17111* #
NASA-CR-173154 08 p1133 N84-17369* #
NASA-CR-173155 08 p1143 N84-17437* #
NASA-CR-173157 07 p1026 N84-16645* #
NASA-CR-173159 08 p1136 N84-17388* #
NASA-CR-173161 08 p1222 N84-17977* #
NASA-CR-173162 08 p1136 N84-17384* #
NASA-CR-173164 09 p1363 N84-18902* #
NASA-CR-173165 09 p1316 N84-18600* #
NASA-CR-173166 09 p1377 N84-18997* #
NASA-CR-173167 09 p1277 N84-18341* #
NASA-CR-173171 07 p0986 N84-16388* #
NASA-CR-173172 07 p1006 N84-16525* #
NASA-CR-173173 12 p1805 N84-21767* #
NASA-CR-173174 12 p1805 N84-21768* #
NASA-CR-173175 07 p1069 N84-16941* #
NASA-CR-173176 07 p1009 N84-16543* #
NASA-CR-173177 07 p1050 N84-16804* #
NASA-CR-173179 07 p0953 N84-16180* #
NASA-CR-173180 07 p1060 N84-16870* #
NASA-CR-173181 07 p0951 N84-16167* #
NASA-CR-173182 07 p0962 N84-16233* #
NASA-CR-173183 07 p1071 N84-16954* #
NASA-CR-173184 07 p0943 N84-16115* #
NASA-CR-173186 07 p0987 N84-16390* #
NASA-CR-173187 07 p1069 N84-16942* #
NASA-CR-173188 07 p1058 N84-16855* #
NASA-CR-173189 07 p1035 N84-16711* #
NASA-CR-173190 07 p1025 N84-16640* #
NASA-CR-173191 07 p1025 N84-16641* #

NASA-CR-173192 ..... 07 p1091 N84-17096* #
NASA-CR-173193 ..... 07 p1091 N84-17097* #
NASA-CR-173194 ..... 07 p1091 N84-17098* #
NASA-CR-173195 ..... 07 p1091 N84-17099* #
NASA-CR-173196 ..... 07 p1040 N84-16745* #
NASA-CR-173197 ..... 07 p1091 N84-17091* #
NASA-CR-173198 ..... 07 p1075 N84-16985* #
NASA-CR-173199 ..... 07 p1060 N84-16872* #
NASA-CR-173200 ..... 07 p1007 N84-16528* #
NASA-CR-173201 ..... 07 p0992 N84-16429* #
NASA-CR-173202 ..... 07 p1047 N84-16791* #
NASA-CR-173203 ..... 07 p1025 N84-16644* #
NASA-CR-173204 ..... 07 p1040 N84-16744* #
NASA-CR-173205 ..... 07 p1025 N84-16643* #
NASA-CR-173206 ..... 07 p1054 N84-16823* #
NASA-CR-173207 ..... 07 p1058 N84-16856* #
NASA-CR-173208 ..... 07 p1033 N84-16704* #
NASA-CR-173209 ..... 07 p0992 N84-16428* #
NASA-CR-173210 ..... 07 p1027 N84-16656* #
NASA-CR-173211 ..... 07 p1033 N84-16703* #
NASA-CR-173212 ..... 07 p1025 N84-16642* #
NASA-CR-173213 ..... 07 p0961 N84-16227* #
NASA-CR-173214 ..... 07 p0978 N84-16337* #
NASA-CR-173215 ..... 07 p1012 N84-16565* #
NASA-CR-173216 ..... 07 p1091 N84-17092* #
NASA-CR-173217 ..... 08 p1223 N84-17988* #
NASA-CR-173218 ..... 07 p1020 N84-16615* #
NASA-CR-173219 ..... 07 p1020 N84-16616* #
NASA-CR-173220 ..... 07 p1020 N84-16617* #
NASA-CR-173221 ..... 07 p1020 N84-16618* #
NASA-CR-173222 ..... 07 p1020 N84-16619* #
NASA-CR-173223 ..... 17 p2709 N84-27247* #
NASA-CR-173224 ..... 07 p1021 N84-16621* #
NASA-CR-173225 ..... 07 p1021 N84-16622* #
NASA-CR-173226 ..... 07 p1021 N84-16623* #
NASA-CR-173227 ..... 07 p1021 N84-16624* #
NASA-CR-173228 ..... 07 p1021 N84-16625* #
NASA-CR-173229 ..... 07 p1022 N84-16626* #
NASA-CR-173230 ..... 07 p1022 N84-16627* #
NASA-CR-173231 ..... 08 p1173 N84-17641* #
NASA-CR-173232 ..... 07 p1022 N84-16628* #
NASA-CR-173235 ..... 16 p2508 N84-26093* #
NASA-CR-173236 ..... 16 p2508 N84-26094* #
NASA-CR-173237 ..... 16 p2508 N84-26095* #
NASA-CR-173238 ..... 16 p2508 N84-26096* #
NASA-CR-173239 ..... 16 p2508 N84-26097* #
NASA-CR-173240 ..... 07 p1090 N84-17086* #
NASA-CR-173241 ..... 07 p1059 N84-16858* #
NASA-CR-173242 ..... 07 p1028 N84-16664* #
NASA-CR-173243 ..... 09 p1288 N84-18411* #
NASA-CR-173244 ..... 07 p1015 N84-16583* #
NASA-CR-173245 ..... 07 p0996 N84-16457* #
NASA-CR-173246 ..... 07 p1091 N84-17093* #
NASA-CR-173247 ..... 07 p0996 N84-16459* #
NASA-CR-173248 ..... 07 p0967 N84-16265* #
NASA-CR-173249 ..... 07 p0996 N84-16458* #
NASA-CR-173250 ..... 07 p1022 N84-16631* #
NASA-CR-173251 ..... 07 p1061 N84-16876* #
NASA-CR-173252 ..... 07 p1058 N84-16854* #
NASA-CR-173254 ..... 07 p1058 N84-16857* #
NASA-CR-173255 ..... 07 p1092 N84-17101* #
NASA-CR-173257 ..... 09 p1393 N84-19096* #
NASA-CR-173259 ..... 08 p1122 N84-17293* #
NASA-CR-173261 ..... 10 p1529 N84-20013* #
NASA-CR-173262 ..... 10 p1433 N84-19368* #
NASA-CR-173263 ..... 10 p1473 N84-19621* #
NASA-CR-173264 ..... 10 p1543 N84-20113* #
NASA-CR-173265 ..... 10 p1587 N84-20401* #
NASA-CR-173266 ..... 07 p1075 N84-16991* #
NASA-CR-173267 ..... 07 p1079 N84-17014* #
NASA-CR-173269 ..... 07 p1089 N84-17083* #
NASA-CR-173270 ..... 07 p1059 N84-16859* #
NASA-CR-173271 ..... 07 p1069 N84-16945* #
NASA-CR-173272 ..... 07 p1088 N84-17075* #
NASA-CR-173273 ..... 07 p1012 N84-16562* #
NASA-CR-173274 ..... 07 p1035 N84-16717* #
NASA-CR-173275 ..... 07 p0978 N84-16335* #
NASA-CR-173276 ..... 07 p0946 N84-16135* #
NASA-CR-173278 ..... 08 p1245 N84-18138* #
NASA-CR-173279 ..... 08 p1136 N84-17389* #
NASA-CR-173281 ..... 08 p1182 N84-17697* #
NASA-CR-173282 ..... 08 p1157 N84-17532* #
NASA-CR-173283 ..... 08 p1164 N84-17576* #
NASA-CR-173284 ..... 08 p1143 N84-17436* #
NASA-CR-173285 ..... 08 p1185 N84-17723* #
NASA-CR-173286 ..... 13 p2000 N84-22975* #
NASA-CR-173287 ..... 09 p1361 N84-18889* #
NASA-CR-173289 ..... 08 p1186 N84-17729* #
NASA-CR-173290 ..... 08 p1169 N84-17617* #
NASA-CR-173291 ..... 08 p1169 N84-17618* #
NASA-CR-173292 ..... 08 p1170 N84-17619* #
NASA-CR-173293 ..... 08 p1122 N84-17292* #
NASA-CR-173294 ..... 08 p1098 N84-17140* #
NASA-CR-173295 ..... 08 p1107 N84-17195* #
NASA-CR-173296 ..... 08 p1205 N84-17858* #
NASA-CR-173297 ..... 08 p1205 N84-17859* #
NASA-CR-173299 ..... 08 p1204 N84-17852* #
NASA-CR-173300 ..... 08 p1237 N84-18066* #
NASA-CR-173303 ..... 08 p1186 N84-17730* #
NASA-CR-173304 ..... 08 p1173 N84-17642* #
NASA-CR-173305 ..... 09 p1312 N84-18575* #
NASA-CR-173306 ..... 09 p1260 N84-18226* #
NASA-CR-173307 ..... 09 p1277 N84-18340* #
NASA-CR-173308 ..... 09 p1257 N84-18207* #
NASA-CR-173309 ..... 08 p1155 N84-17521* #
NASA-CR-173310 ..... 08 p1185 N84-17722* #
NASA-CR-173311 ..... 09 p1413 N84-19240* #
NASA-CR-173312 ..... 09 p1270 N84-18296* #
NASA-CR-173313 ..... 09 p1270 N84-18297* #
NASA-CR-173314 ..... 09 p1270 N84-18298* #
NASA-CR-173315 ..... 09 p1270 N84-18299* #
NASA-CR-173316 ..... 09 p1270 N84-18300* #
NASA-CR-173317 ..... 09 p1271 N84-18301* #
NASA-CR-173318 ..... 09 p1271 N84-18302* #
NASA-CR-173319 ..... 09 p1271 N84-18303* #
NASA-CR-173320 ..... 09 p1271 N84-18304* #
NASA-CR-173321 ..... 09 p1267 N84-18273* #
NASA-CR-173322 ..... 09 p1290 N84-18420* #
NASA-CR-173323 ..... 09 p1336 N84-18726* #
NASA-CR-173324 ..... 09 p1252 N84-18171* #
NASA-CR-173325 ..... 09 p1336 N84-18725* #
NASA-CR-173326 ..... 09 p1275 N84-18326* #
NASA-CR-173327 ..... 09 p1267 N84-18274* #
NASA-CR-173328 ..... 09 p1267 N84-18271* #
NASA-CR-173329 ..... 09 p1269 N84-18291* #
NASA-CR-173330 ..... 09 p1269 N84-18290* #
NASA-CR-173331 ..... 09 p1266 N84-18268* #
NASA-CR-173332 ..... 09 p1266 N84-18267* #
NASA-CR-173333 ..... 09 p1266 N84-18266* #
NASA-CR-173334 ..... 09 p1266 N84-18265* #
NASA-CR-173335 ..... 09 p1267 N84-18269* #
NASA-CR-173336 ..... 09 p1270 N84-18294* #
NASA-CR-173337 ..... 09 p1270 N84-18293* #
NASA-CR-173338 ..... 09 p1329 N84-18680* #
NASA-CR-173339 ..... 09 p1360 N84-18885* #
NASA-CR-173340 ..... 09 p1417 N84-19272* #
NASA-CR-173343 ..... 10 p1485 N84-19709* #
NASA-CR-173345 ..... 09 p1267 N84-18275* #
NASA-CR-173346 ..... 12 p1828 N84-21917* #
NASA-CR-173353 ..... 10 p1558 N84-20207* #
NASA-CR-173354 ..... 10 p1497 N84-19784* #
NASA-CR-173355 ..... 10 p1432 N84-19360* #
NASA-CR-173356 ..... 09 p1372 N84-18959* #
NASA-CR-173357 ..... 09 p1341 N84-18758* #
NASA-CR-173358 ..... 09 p1341 N84-18759* #
NASA-CR-173359 ..... 09 p1415 N84-19260* #
NASA-CR-173360 ..... 09 p1256 N84-18202* #
NASA-CR-173361 ..... 10 p1597 N84-20464* #
NASA-CR-173362 ..... 09 p1344 N84-18782* #
NASA-CR-173363 ..... 09 p1360 N84-18888* #
NASA-CR-173364 ..... 09 p1287 N84-18401* #
NASA-CR-173365 ..... 09 p1360 N84-18887* #
NASA-CR-173366 ..... 10 p1597 N84-20465* #
NASA-CR-173367 ..... 13 p2004 N84-23000* #
NASA-CR-173368 ..... 12 p1828 N84-21918* #
NASA-CR-173369 ..... 13 p2004 N84-23003* #
NASA-CR-173370 ..... 12 p1828 N84-21919* #
NASA-CR-173371 ..... 12 p1828 N84-21920* #
NASA-CR-173372 ..... 12 p1829 N84-21921* #
NASA-CR-173373 ..... 12 p1829 N84-21922* #
NASA-CR-173374 ..... 12 p1829 N84-21923* #
NASA-CR-173375 ..... 12 p1829 N84-21924* #
NASA-CR-173376 ..... 11 p1604 N84-20506* #
NASA-CR-173377 ..... 11 p1633 N84-20676* #
NASA-CR-173378 ..... 12 p1922 N84-22522* #
NASA-CR-173393 ..... 12 p1797 N84-21720* #
NASA-CR-173394 ..... 12 p1826 N84-21903* #
NASA-CR-173395 ..... 12 p1922 N84-22524* #
NASA-CR-173396 ..... 12 p1912 N84-22458* #
NASA-CR-173397 ..... 12 p1918 N84-22495* #
NASA-CR-173398 ..... 12 p1777 N84-21594* #
NASA-CR-173399 ..... 14 p2127 N84-23751* #
NASA-CR-173400 ..... 12 p1777 N84-21592* #
NASA-CR-173401 ..... 12 p1777 N84-21593* #
NASA-CR-173402 ..... 12 p1777 N84-21595* #
NASA-CR-173403 ..... 12 p1777 N84-21596* #
NASA-CR-173405 ..... 12 p1812 N84-21810* #
NASA-CR-173408 ..... 12 p1860 N84-22115* #
NASA-CR-173412 ..... 12 p1822 N84-21877* #
NASA-CR-173415 ..... 13 p2091 N84-23545* #
NASA-CR-173416 ..... 13 p1999 N84-22969* #
NASA-CR-173417 ..... 13 p1985 N84-22689* #
NASA-CR-173418 ..... 13 p2066 N84-23401* #
NASA-CR-173419 ..... 13 p2010 N84-23039* #
NASA-CR-173420 ..... 13 p2023 N84-23119* #
NASA-CR-173421 ..... 13 p2034 N84-23193* #
NASA-CR-173422 ..... 13 p1965 N84-22768* #
NASA-CR-173425 ..... 14 p2244 N84-24476* #
NASA-CR-173427 ..... 14 p2133 N84-23783* #
NASA-CR-173429 ..... 14 p2252 N84-24522* #
NASA-CR-173430 ..... 14 p2225 N84-24351* #
NASA-CR-173432 ..... 15 p2361 N84-25165* #

NASA-CR-173433 ..... 16 p2471 N84-25840* #
NASA-CR-173434 ..... 16 p2558 N84-26413* #
NASA-CR-173435 ..... 16 p2525 N84-26215* #
NASA-CR-173437 ..... 16 p2535 N84-26274* #
NASA-CR-173438 ..... 16 p2542 N84-26319* #
NASA-CR-173439 ..... 17 p2682 N84-27076* #
NASA-CR-173440 ..... 18 p2953 N84-28720* #
NASA-CR-173442 ..... 17 p2615 N84-26738* #
NASA-CR-173443 ..... 17 p2601 N84-26669* #
NASA-CR-173444 ..... 18 p2798 N84-27757* #
NASA-CR-173445 ..... 18 p2877 N84-28266* #
NASA-CR-173446 ..... 18 p2805 N84-27808* #
NASA-CR-173447 ..... 17 p2777 N84-27631* #
NASA-CR-173448 ..... 18 p2923 N84-28537* #
NASA-CR-173449 ..... 12 p1765 N84-21514* #
NASA-CR-173450 ..... 12 p1834 N84-21955* #
NASA-CR-173451 ..... 12 p1776 N84-21587* #
NASA-CR-173452 ..... 12 p1769 N84-21538* #
NASA-CR-173453 ..... 12 p1841 N84-22006* #
NASA-CR-173454 ..... 12 p1842 N84-22007* #
NASA-CR-173455 ..... 12 p1879 N84-22245* #
NASA-CR-173456 ..... 12 p1841 N84-22001* #
NASA-CR-173457 ..... 12 p1907 N84-22422* #
NASA-CR-173458 ..... 12 p1842 N84-22009* #
NASA-CR-173459 ..... 12 p1912 N84-22460* #
NASA-CR-173460 ..... 12 p1842 N84-22008* #
NASA-CR-173461 ..... 12 p1801 N84-21741* #
NASA-CR-173462 ..... 12 p1842 N84-22010* #
NASA-CR-173463 ..... 12 p1842 N84-22012* #
NASA-CR-173464 ..... 12 p1842 N84-22011* #
NASA-CR-173465 ..... 12 p1779 N84-21609* #
NASA-CR-173466 ..... 12 p1863 N84-22138* #
NASA-CR-173467 ..... 12 p1841 N84-22005* #
NASA-CR-173468 ..... 12 p1765 N84-21515* #
NASA-CR-173469 ..... 12 p1841 N84-22003* #
NASA-CR-173470 ..... 12 p1841 N84-22004* #
NASA-CR-173471 ..... 12 p1912 N84-22459* #
NASA-CR-173472 ..... 12 p1841 N84-22002* #
NASA-CR-173473 ..... 12 p1826 N84-21905* #
NASA-CR-173474 ..... 12 p1901 N84-22380* #
NASA-CR-173475 ..... 12 p1825 N84-21900* #
NASA-CR-173477 ..... 12 p1838 N84-21980* #
NASA-CR-173478 ..... 12 p1766 N84-21517* #
NASA-CR-173479 ..... 12 p1877 N84-22230* #
NASA-CR-173480 ..... 13 p2003 N84-22997* #
NASA-CR-173481 ..... 13 p2004 N84-23004* #
NASA-CR-173482 ..... 13 p2005 N84-23005* #
NASA-CR-173483 ..... 13 p2005 N84-23006* #
NASA-CR-173484 ..... 13 p2005 N84-23007* #
NASA-CR-173485 ..... 13 p2005 N84-23008* #
NASA-CR-173486 ..... 14 p2167 N84-23976* #
NASA-CR-173487 ..... 14 p2167 N84-23977* #
NASA-CR-173488 ..... 14 p2167 N84-23978* #
NASA-CR-173489 ..... 13 p2005 N84-23009* #
NASA-CR-173490 ..... 13 p2018 N84-23085* #
NASA-CR-173491 ..... 15 p2425 N84-25566* #
NASA-CR-173492 ..... 16 p2579 N84-26543* #
NASA-CR-173493 ..... 13 p2019 N84-23092* #
NASA-CR-173494 ..... 13 p1936 N84-22595* #
NASA-CR-173495 ..... 13 p1936 N84-22590* #
NASA-CR-173496 ..... 13 p1936 N84-22591* #
NASA-CR-173497 ..... 13 p2091 N84-23544* #
NASA-CR-173498 ..... 13 p1936 N84-22594* #
NASA-CR-173499 ..... 13 p1936 N84-22593* #
NASA-CR-173500 ..... 13 p1963 N84-22753* #
NASA-CR-173501 ..... 13 p1936 N84-22592* #
NASA-CR-173502 ..... 14 p2112 N84-23661* #
NASA-CR-173503 ..... 14 p2145 N84-23854* #
NASA-CR-173504 ..... 14 p2113 N84-23664* #
NASA-CR-173505 ..... 14 p2104 N84-23620* #
NASA-CR-173506 ..... 14 p2150 N84-23880* #
NASA-CR-173507 ..... 14 p2157 N84-23921* #
NASA-CR-173511 ..... 17 p2711 N84-27258* #
NASA-CR-173514 ..... 15 p2332 N84-25001* #
NASA-CR-173515 ..... 15 p2319 N84-24918* #
NASA-CR-173517 ..... 15 p2265 N84-24601* #
NASA-CR-173518 ..... 13 p2070 N84-23412* #
NASA-CR-173519 ..... 13 p2091 N84-23543* #
NASA-CR-173520 ..... 14 p2114 N84-23670* #
NASA-CR-173521 ..... 14 p2115 N84-23671* #
NASA-CR-173522 ..... 14 p2115 N84-23672* #
NASA-CR-173523 ..... 14 p2115 N84-23673* #
NASA-CR-173524 ..... 14 p2115 N84-23674* #
NASA-CR-173525 ..... 13 p2070 N84-23414* #
NASA-CR-173526 ..... 13 p2070 N84-23413* #
NASA-CR-173527 ..... 14 p2175 N84-24030* #
NASA-CR-173528 ..... 14 p2166 N84-23974* #
NASA-CR-173529 ..... 15 p2265 N84-24600* #
NASA-CR-173531 ..... 16 p2572 N84-26509* #
NASA-CR-173532 ..... 14 p2113 N84-23662* #
NASA-CR-173533 ..... 14 p2150 N84-23879* #
NASA-CR-173534 ..... 14 p2136 N84-23807* #
NASA-CR-173536 ..... 15 p2279 N84-24692* #
NASA-CR-173537 ..... 15 p2366 N84-25195* #
NASA-CR-173538 ..... 15 p2378 N84-25272* #
NASA-CR-173539 ..... 15 p2417 N84-25510* #
NASA-CR-173540 ..... 16 p2460 N84-25768* #
NASA-CR-173541 ..... 15 p2338 N84-25034* #
NASA-CR-173542 ..... 15 p2399 N84-25393* #
NASA-CR-173545 ..... 16 p2580 N84-26550* #
NASA-CR-173547 ..... 15 p2281 N84-24700* #
NASA-CR-173548 ..... 15 p2320 N84-24924* #
NASA-CR-173549 ..... 16 p2521 N84-26182* #
NASA-CR-173550 ..... 15 p2301 N84-24810* #
NASA-CR-173551 ..... 15 p2319 N84-24921* #
NASA-CR-173552 ..... 15 p2389 N84-25336* #
NASA-CR-173553 ..... 15 p2361 N84-25167* #
NASA-CR-173554 ..... 15 p2361 N84-25168* #
NASA-CR-173555 ..... 15 p2262 N84-24586* #
NASA-CR-173556 ..... 15 p2332 N84-25002* #
NASA-CR-173557 ..... 15 p2327 N84-24975* #
NASA-CR-173558 ..... 15 p2319 N84-24923* #
NASA-CR-173560 ..... 15 p2327 N84-24974* #
NASA-CR-173561 ..... 15 p2429 N84-25587* #
NASA-CR-173562 ..... 16 p2542 N84-26318* #
NASA-CR-173564 ..... 16 p2542 N84-26317* #
NASA-CR-173565 ..... 16 p2478 N84-25889* #
NASA-CR-173567 ..... 16 p2579 N84-26544* #
NASA-CR-173568 ..... 16 p2582 N84-26559* #
NASA-CR-173590 ..... 16 p2528 N84-26232* #
NASA-CR-173591 ..... 16 p2582 N84-26558* #
NASA-CR-173592 ..... 16 p2577 N84-26535* #
NASA-CR-173593 ..... 16 p2543 N84-26324* #
NASA-CR-173594 ..... 16 p2462 N84-25776* #
NASA-CR-173595 ..... 16 p2529 N84-26234* #
NASA-CR-173596 ..... 16 p2438 N84-25639* #
NASA-CR-173597 ..... 16 p2457 N84-25756* #
NASA-CR-173598 ..... 16 p2569 N84-26483* #
NASA-CR-173602 ..... 16 p2495 N84-26011* #
NASA-CR-173603 ..... 16 p2576 N84-26530* #
NASA-CR-173604 ..... 16 p2574 N84-26517* #
NASA-CR-173605 ..... 16 p2462 N84-25779* #
NASA-CR-173606 ..... 16 p2582 N84-26557* #
NASA-CR-173607 ..... 16 p2464 N84-25792* #
NASA-CR-173608 ..... 16 p2577 N84-26536* #
NASA-CR-173609 ..... 16 p2577 N84-26537* #
NASA-CR-173610 ..... 16 p2464 N84-25791* #
NASA-CR-173611 ..... 16 p2575 N84-26527* #
NASA-CR-173612 ..... 16 p2541 N84-26312* #
NASA-CR-173613 ..... 16 p2541 N84-26313* #
NASA-CR-173616 ..... 16 p2460 N84-25767* #
NASA-CR-173617 ..... 16 p2543 N84-26325* #
NASA-CR-173618 ..... 16 p2575 N84-26528* #
NASA-CR-173619 ..... 16 p2544 N84-26327* #
NASA-CR-173620 ..... 16 p2544 N84-26326* #
NASA-CR-173621 ..... 16 p2521 N84-26184* #
NASA-CR-173622 ..... 17 p2762 N84-27544* #
NASA-CR-173626 ..... 17 p2666 N84-27001* #
NASA-CR-173627 ..... 17 p2767 N84-27571* #
NASA-CR-173628 ..... 17 p2780 N84-27652* #
NASA-CR-173629 ..... 17 p2781 N84-27656* #
NASA-CR-173630 ..... 17 p2739 N84-27394* #
NASA-CR-173631 ..... 17 p2774 N84-27614* #
NASA-CR-173632 ..... 17 p2774 N84-27613* #
NASA-CR-173633 ..... 17 p2617 N84-26748* #
NASA-CR-173634 ..... 17 p2740 N84-27395* #
NASA-CR-173635 ..... 17 p2781 N84-27657* #
NASA-CR-173636 ..... 17 p2652 N84-26960* #
NASA-CR-173638 ..... 17 p2711 N84-27257* #
NASA-CR-173639 ..... 17 p2671 N84-27024* #
NASA-CR-173640 ..... 17 p2710 N84-27256* #
NASA-CR-173641 ..... 17 p2727 N84-27358* #
NASA-CR-173642 ..... 17 p2781 N84-27655* #
NASA-CR-173643 ..... 17 p2728 N84-27362* #
NASA-CR-173644 ..... 17 p2654 N84-26973* #
NASA-CR-173648 ..... 17 p2667 N84-27005* #
NASA-CR-173649 ..... 17 p2726 N84-27354* #
NASA-CR-173650 ..... 17 p2781 N84-27658* #
NASA-CR-173665 ..... 17 p2757 N84-27505* #
NASA-CR-173666 ..... 19 p3038 N84-29275* #
NASA-CR-173667 ..... 19 p3123 N84-29844* #
NASA-CR-173668 ..... 19 p3039 N84-29277* #
NASA-CR-173669 ..... 17 p2709 N84-27249* #
NASA-CR-173670 ..... 17 p2709 N84-27250* #
NASA-CR-173671 ..... 17 p2709 N84-27251* #
NASA-CR-173672 ..... 21 p3353 N84-31270* #
NASA-CR-173673 ..... 21 p3353 N84-31271* #
NASA-CR-173674 ..... 09 p1267 N84-18272* #
NASA-CR-173675 ..... 22 p3539 N84-32406* #
NASA-CR-173676 ..... 22 p3613 N84-32894* #
NASA-CR-173677 ..... 18 p2899 N84-28390* #
NASA-CR-173678 ..... 18 p2845 N84-28066* #
NASA-CR-173679 ..... 18 p2852 N84-28110* #
NASA-CR-173680 ..... 18 p2879 N84-28279* #
NASA-CR-173681 ..... 18 p2809 N84-27830* #
NASA-CR-173682 ..... 21 p3419 N84-31682* #
NASA-CR-173683 ..... 18 p2932 N84-28595* #
NASA-CR-173684 ..... 16 p2548 N84-26352* #
NASA-CR-173685 ..... 18 p2804 N84-27800* #
NASA-CR-173686 ..... 18 p2804 N84-27799* #
NASA-CR-173687 ..... 18 p2803 N84-27792* #
NASA-CR-173688 ..... 18 p2798 N84-27756* #

NASA-CR-173689 ..... 18 p2805 N84-27807* #
NASA-CR-173690 ..... 18 p2805 N84-27806* #
NASA-CR-173691 ..... 18 p2806 N84-27817* #
NASA-CR-173692 ..... 18 p2806 N84-27814* #
NASA-CR-173693 ..... 18 p2804 N84-27794* #
NASA-CR-173694 ..... 18 p2804 N84-27793* #
NASA-CR-173695 ..... 18 p2803 N84-27791* #
NASA-CR-173696 ..... 18 p2803 N84-27790* #
NASA-CR-173697 ..... 18 p2803 N84-27789* #
NASA-CR-173698 ..... 18 p2803 N84-27788* #
NASA-CR-173699 ..... 18 p2804 N84-27798* #
NASA-CR-173700 ..... 18 p2804 N84-27796* #
NASA-CR-173701 ..... 18 p2805 N84-27801* #
NASA-CR-173702 ..... 18 p2804 N84-27795* #
NASA-CR-173703 ..... 18 p2807 N84-27819* #
NASA-CR-173704 ..... 18 p2798 N84-27755* #
NASA-CR-173705 ..... 18 p2805 N84-27803* #
NASA-CR-173706 ..... 18 p2805 N84-27804* #
NASA-CR-173707 ..... 18 p2806 N84-27818* #
NASA-CR-173708 ..... 18 p2928 N84-28569* #
NASA-CR-173709 ..... 18 p2852 N84-28108* #
NASA-CR-173710 ..... 18 p2806 N84-27816* #
NASA-CR-173711 ..... 18 p2805 N84-27802* #
NASA-CR-173712 ..... 18 p2806 N84-27811* #
NASA-CR-173713 ..... 18 p2806 N84-27810* #
NASA-CR-173714 ..... 18 p2805 N84-27809* #
NASA-CR-173715 ..... 18 p2806 N84-27813* #
NASA-CR-173716 ..... 18 p2806 N84-27812* #
NASA-CR-173717 ..... 18 p2802 N84-27780* #
NASA-CR-173718 ..... 18 p2806 N84-27815* #
NASA-CR-173719 ..... 18 p2804 N84-27797* #
NASA-CR-173721 ..... 18 p2791 N84-27717* #
NASA-CR-173722 ..... 18 p2924 N84-28544* #
NASA-CR-173723 ..... 18 p2786 N84-27681* #
NASA-CR-173724 ..... 18 p2870 N84-28218* #
NASA-CR-173725 ..... 18 p2870 N84-28217* #
NASA-CR-173726 ..... 18 p2833 N84-27982* #
NASA-CR-173727 ..... 18 p2883 N84-28296* #
NASA-CR-173728 ..... 18 p2791 N84-27714* #
NASA-CR-173730 ..... 18 p2869 N84-28211* #
NASA-CR-173731 ..... 18 p2929 N84-28576* #
NASA-CR-173732 ..... 18 p2871 N84-28223* #
NASA-CR-173733 ..... 18 p2915 N84-28485* #
NASA-CR-173734 ..... 18 p2836 N84-28003* #
NASA-CR-173735 ..... 18 p2869 N84-28212* #
NASA-CR-173736 ..... 18 p2801 N84-27779* #
NASA-CR-173737 ..... 18 p2870 N84-28220* #
NASA-CR-173738 ..... 18 p2845 N84-28067* #
NASA-CR-173739 ..... 18 p2877 N84-28267* #
NASA-CR-173740 ..... 18 p2892 N84-28355* #
NASA-CR-173741 ..... 16 p2947 N84-28682* #
NASA-CR-173742 ..... 18 p2833 N84-27981* #
NASA-CR-173743 ..... 18 p2868 N84-28210* #
NASA-CR-173744 ..... 18 p2828 N84-27956* #
NASA-CR-173745 ..... 18 p2871 N84-28224* #
NASA-CR-173746 ..... 18 p2935 N84-28614* #
NASA-CR-173747 ..... 18 p2868 N84-28208* #
NASA-CR-173748 ..... 18 p2870 N84-28219* #
NASA-CR-173749 ..... 18 p2935 N84-28613* #
NASA-CR-173750 ..... 18 p2869 N84-28216* #
NASA-CR-173751 ..... 18 p2869 N84-28215* #
NASA-CR-173752 ..... 18 p2868 N84-28207* #
NASA-CR-173753 ..... 18 p2869 N84-28214* #
NASA-CR-173754 ..... 18 p2869 N84-28213* #
NASA-CR-173755 ..... 18 p2868 N84-28209* #
NASA-CR-173756 ..... 18 p2870 N84-28221* #
NASA-CR-173757 ..... 18 p2870 N84-28222* #
NASA-CR-173758 ..... 19 p3050 N84-29352* #
NASA-CR-173759 ..... 19 p3050 N84-29353* #
NASA-CR-173760 ..... 19 p3049 N84-29350* #
NASA-CR-173761 ..... 19 p3049 N84-29351* #
NASA-CR-173762 ..... 19 p3049 N84-29348* #
NASA-CR-173763 ..... 19 p3050 N84-29355* #
NASA-CR-173764 ..... 19 p3050 N84-29354* #
NASA-CR-173765 ..... 19 p2978 N84-28682* #
NASA-CR-173766 ..... 19 p3049 N84-29349* #
NASA-CR-173767 ..... 19 p3122 N84-29843* #
NASA-CR-173769 ..... 18 p2805 N84-27805* #
NASA-CR-173776 ..... 19 p2981 N84-28891* #
NASA-CR-173777 ..... 19 p3063 N84-29432* #
NASA-CR-173778 ..... 19 p3021 N84-29155* #
NASA-CR-173779 ..... 19 p3034 N84-29244* #
NASA-CR-173781 ..... 19 p2981 N84-28892* #
NASA-CR-173782 ..... 19 p3068 N84-29464* #
NASA-CR-173783 ..... 19 p3029 N84-29207* #
NASA-CR-173784 ..... 19 p3099 N84-29685* #
NASA-CR-173786 ..... 19 p3021 N84-29156* #
NASA-CR-173787 ..... 19 p2987 N84-28929* #
NASA-CR-173798 ..... 19 p3121 N84-29842* #
NASA-CR-173799 ..... 19 p2956 N84-28734* #
NASA-CR-173800 ..... 20 p3278 N84-30808* #
NASA-CR-173801 ..... 19 p3067 N84-29457* #
NASA-CR-173803 ..... 19 p3080 N84-29542* #
NASA-CR-173804 ..... 19 p3082 N84-29561* #
NASA-CR-173817 ..... 19 p3022 N84-29161* #
NASA-CR-173818 ..... 19 p2986 N84-28919* #
NASA-CR-173819 ..... 19 p2987 N84-28928* #
NASA-CR-173820 ..... 20 p3172 N84-30145* #
NASA-CR-173821 ..... 19 p3035 N84-29252* #
NASA-CR-173823 ..... 19 p3090 N84-29618* #
NASA-CR-173825 ..... 20 p3319 N84-31068* #
NASA-CR-173827 ..... 20 p3319 N84-31066* #
NASA-CR-173828 ..... 20 p3152 N84-30013* #
NASA-CR-173829 ..... 20 p3125 N84-29851* #
NASA-CR-173830 ..... 21 p3419 N84-31665* #
NASA-CR-173832 ..... 22 p3534 N84-32377* #
NASA-CR-173833 ..... 20 p3192 N84-30274* #
NASA-CR-173834 ..... 20 p3245 N84-30595* #
NASA-CR-173835 ..... 20 p3228 N84-30511* #
NASA-CR-173836 ..... 21 p3518 N84-32282* #
NASA-CR-173837 ..... 21 p3470 N84-31992* #
NASA-CR-173839 ..... 21 p3464 N84-31957* #
NASA-CR-173840 ..... 21 p3490 N84-32117* #
NASA-CR-173841 ..... 21 p3463 N84-31954* #
NASA-CR-173842 ..... 20 p3276 N84-30799* #
NASA-CR-173843 ..... 20 p3196 N84-30296* #
NASA-CR-173844 ..... 21 p3522 N84-32315* #
NASA-CR-173845 ..... 21 p3357 N84-31291* #
NASA-CR-173846 ..... 21 p3408 N84-31616* #
NASA-CR-173847 ..... 21 p3490 N84-32116* #
NASA-CR-173848 ..... 21 p3490 N84-32115* #
NASA-CR-173849 ..... 21 p3507 N84-32220* #
NASA-CR-173852 ..... 22 p3613 N84-32693* #
NASA-CR-173853 ..... 21 p3427 N84-31736* #
NASA-CR-173854 ..... 21 p3427 N84-31737* #
NASA-CR-173855 ..... 21 p3427 N84-31738* #
NASA-CR-173856 ..... 21 p3427 N84-31739* #
NASA-CR-173857 ..... 22 p3637 N84-33056* #
NASA-CR-173860 ..... 21 p3405 N84-31596* #
NASA-CR-173861 ..... 21 p3457 N84-31936* #
NASA-CR-173862 ..... 21 p3351 N84-31259* #
NASA-CR-173863 ..... 21 p3491 N84-32121* #
NASA-CR-173864 ..... 21 p3523 N84-32316* #
NASA-CR-173865 ..... 21 p3366 N84-31350* #
NASA-CR-173866 ..... 21 p3344 N84-31214* #
NASA-CR-173867 ..... 21 p3353 N84-31267* #
NASA-CR-173868 ..... 22 p3581 N84-32678* #
NASA-CR-173869 ..... 21 p3396 N84-31559* #
NASA-CR-173870 ..... 21 p3356 N84-31289* #
NASA-CR-173871 ..... 21 p3460 N84-31945* #
NASA-CR-173873 ..... 21 p3492 N84-32130* #
NASA-CR-173874 ..... 21 p3450 N84-31896* #
NASA-CR-173875 ..... 21 p3409 N84-31619* #
NASA-CR-173876 ..... 22 p3613 N84-32692* #
NASA-CR-173877 ..... 22 p3622 N84-32950* #
NASA-CR-173878 ..... 22 p3678 N84-33315* #
NASA-CR-173879 ..... 22 p3622 N84-32951* #
NASA-CR-173880 ..... 22 p3537 N84-32395* #
NASA-CR-173881 ..... 22 p3530 N84-32352* #
NASA-CR-173882 ..... 21 p3429 N84-31758* #
NASA-CR-173883 ..... 21 p3430 N84-31759* #
NASA-CR-173884 ..... 22 p3536 N84-32389* #
NASA-CR-173885 ..... 22 p3572 N84-32622* #
NASA-CR-173886 ..... 22 p3678 N84-33319* #
NASA-CR-173887 ..... 22 p3678 N84-33316* #
NASA-CR-173888 ..... 22 p3661 N84-33210* #
NASA-CR-173889 ..... 22 p3677 N84-33310* #
NASA-CR-173890 ..... 22 p3633 N84-33022* #
NASA-CR-173891 ..... 22 p3608 N84-32862* #
NASA-CR-173892 ..... 22 p3609 N84-32863* #
NASA-CR-173893 ..... 22 p3539 N84-32403* #
NASA-CR-173896 ..... 22 p3616 N84-32915* #
NASA-CR-173897 ..... 22 p3662 N84-33213* #
NASA-CR-173898 ..... 22 p3617 N84-32920* #
NASA-CR-173899 ..... 22 p3546 N84-32448* #
NASA-CR-173900 ..... 22 p3675 N84-33299* #
NASA-CR-173901 ..... 22 p3617 N84-32921* #
NASA-CR-173902 ..... 23 p3786 N84-34013* #
NASA-CR-173903 ..... 22 p3618 N84-32922* #
NASA-CR-173904 ..... 22 p3617 N84-32916* #
NASA-CR-173905 ..... 22 p3627 N84-32986* #
NASA-CR-173906 ..... 22 p3675 N84-33295* #
NASA-CR-173907 ..... 22 p3582 N84-32682* #
NASA-CR-173908 ..... 22 p3617 N84-32918* #
NASA-CR-173909 ..... 22 p3673 N84-33285* #
NASA-CR-173910 ..... 22 p3617 N84-32917* #
NASA-CR-173911 ..... 22 p3617 N84-32919* #
NASA-CR-173913 ..... 22 p3633 N84-33020* #
NASA-CR-173914 ..... 22 p3679 N84-33322* #
NASA-CR-173915 ..... 22 p3651 N84-33145* #
NASA-CR-173916 ..... 22 p3575 N84-32645* #
NASA-CR-173917 ..... 22 p3652 N84-33146* #
NASA-CR-173918 ..... 22 p3582 N84-32683* #
NASA-CR-173919 ..... 22 p3679 N84-33323* #
NASA-CR-173920 ..... 22 p3644 N84-33105* #
NASA-CR-173921 ..... 22 p3639 N84-33071* #
NASA-CR-173922 ..... 23 p3834 N84-34318* #
NASA-CR-173923 ..... 22 p3679 N84-33321* #
NASA-CR-173924 ..... 22 p3554 N84-32502* #
NASA-CR-173926 ..... 23 p3786 N84-34012* #
NASA-CR-173927 ..... 23 p3840 N84-34360* #
NASA-CR-173928 ..... 23 p3845 N84-34392* #

NASA-CR-173929 ..... 23 p3843 N84-34384* #
NASA-CR-173930 ..... 23 p3843 N84-34383* #
NASA-CR-173931 ..... 23 p3840 N84-34361* #
NASA-CR-173932 ..... 23 p3702 N84-33463* #
NASA-CR-173934 ..... 23 p3788 N84-34026* #
NASA-CR-173935 ..... 23 p3789 N84-34033* #
NASA-CR-173936 ..... 23 p3789 N84-34034* #
NASA-CR-173937 ..... 23 p3790 N84-34035* #
NASA-CR-173938 ..... 23 p3788 N84-34027* #
NASA-CR-173939 ..... 23 p3713 N84-33534* #
NASA-CR-173940 ..... 23 p3789 N84-34029* #
NASA-CR-173941 ..... 23 p3789 N84-34028* #
NASA-CR-173942 ..... 23 p3789 N84-34032* #
NASA-CR-173943 ..... 23 p3789 N84-34031* #
NASA-CR-173944 ..... 23 p3838 N84-34347* #
NASA-CR-173945 ..... 23 p3763 N84-33854 #
NASA-CR-173946 ..... 23 p3763 N84-33853 #
NASA-CR-173949 ..... 23 p3787 N84-34021* #
NASA-CR-173950 ..... 23 p3787 N84-34020* #
NASA-CR-173951 ..... 23 p3788 N84-34022* #
NASA-CR-173952 ..... 23 p3788 N84-34023* #
NASA-CR-173953 ..... 23 p3788 N84-34025* #
NASA-CR-173954 ..... 23 p3787 N84-34017* #
NASA-CR-173955 ..... 23 p3787 N84-34016* #
NASA-CR-173956 ..... 23 p3786 N84-34014* #
NASA-CR-173957 ..... 23 p3786 N84-34015* #
NASA-CR-173958 ..... 23 p3787 N84-34019* #
NASA-CR-173959 ..... 23 p3789 N84-34030* #
NASA-CR-173960 ..... 23 p3787 N84-34018* #
NASA-CR-173961 ..... 23 p3743 N84-33725* #
NASA-CR-173962 ..... 23 p3744 N84-33733* #
NASA-CR-173963 ..... 23 p3799 N84-34086* #
NASA-CR-173964 ..... 24 p3893 N84-34655* #
NASA-CR-173966 ..... 23 p3843 N84-34385* #
NASA-CR-173967 ..... 23 p3760 N84-33835* #
NASA-CR-173968 ..... 23 p3838 N84-34349* #
NASA-CR-173969 ..... 23 p3786 N84-34011* #
NASA-CR-173970 ..... 23 p3824 N84-34253* #
NASA-CR-173971 ..... 23 p3844 N84-34386* #
NASA-CR-173972 ..... 23 p3828 N84-34280* #
NASA-CR-173974 ..... 24 p3860 N84-34465* #
NASA-CR-173975 ..... 24 p3884 N84-34610* #
NASA-CR-173978 ..... 23 p3777 N84-33946* #
NASA-CR-173979 ..... 23 p3717 N84-33565* #
NASA-CR-173980 ..... 24 p3948 N84-35001* #
NASA-CR-173981 ..... 24 p3897 N84-34675* #
NASA-CR-173982 ..... 24 p3992 N84-35261* #
NASA-CR-173983 ..... 24 p3945 N84-34977* #
NASA-CR-173985 ..... 24 p3878 N84-34573* #
NASA-CR-173987 ..... 24 p3861 N84-34467* #
NASA-CR-173992 ..... 24 p3990 N84-35244* #
NASA-CR-173993 ..... 24 p3995 N84-35283* #
NASA-CR-173994 ..... 24 p3936 N84-34914* #
NASA-CR-173995 ..... 24 p3919 N84-34812* #
NASA-CR-173996 ..... 24 p3884 N84-34609* #
NASA-CR-173997 ..... 24 p3859 N84-34459* #
NASA-CR-173998 ..... 24 p3942 N84-34957* #
NASA-CR-173999 ..... 24 p3859 N84-34460* #
NASA-CR-174000 ..... 24 p3910 N84-34765* #
NASA-CR-174005 ..... 24 p3933 N84-34897* #
NASA-CR-174006 ..... 24 p3989 N84-35241* #
NASA-CR-174007 ..... 24 p3916 N84-34793* #
NASA-CR-174450 ..... 01 p0027 N84-10173* #
NASA-CR-174464 ..... 01 p0102 N84-10660* #
NASA-CR-174466 ..... 01 p0005 N84-10032* #
NASA-CR-174467 ..... 01 p0104 N84-10679* #
NASA-CR-174468 ..... 01 p0104 N84-10678* #
NASA-CR-174469 ..... 01 p0165 N84-11086* #
NASA-CR-174470 ..... 01 p0155 N84-11023* #
NASA-CR-174471 ..... 02 p0278 N84-11822* #
NASA-CR-174472 ..... 01 p0104 N84-10677 #
NASA-CR-174477 ..... 02 p0307 N84-12013* #
NASA-CR-174480 ..... 02 p0283 N84-11855* #
NASA-CR-174481 ..... 02 p0238 N84-11563* #
NASA-CR-174482 ..... 02 p0211 N84-11382* #
NASA-CR-174483 ..... 02 p0248 N84-11622* #
NASA-CR-174486 ..... 03 p0418 N84-12732* #
NASA-CR-174489 ..... 03 p0432 N84-12832* #
NASA-CR-174490 ..... 03 p0417 N84-12727* #
NASA-CR-174494 ..... 03 p0320 N84-12096* #
NASA-CR-174495 ..... 03 p0388 N84-12527* #
NASA-CR-174496 ..... 04 p0531 N84-13491* #
NASA-CR-174501 ..... 05 p0749 N84-14917 #
NASA-CR-174502 ..... 06 p0893 N84-15803* #
NASA-CR-174503 ..... 06 p0873 N84-15681* #
NASA-CR-174504 ..... 06 p0858 N84-15589* #
NASA-CR-174506 ..... 06 p0922 N84-15997* #
NASA-CR-174507 ..... 07 p0980 N84-16353* #
NASA-CR-174508 ..... 07 p0981 N84-16354* #
NASA-CR-174509 ..... 07 p0980 N84-16351* #
NASA-CR-174516 ..... 02 p0235 N84-11543* #
NASA-CR-174517 ..... 04 p0551 N84-13627* #
NASA-CR-174518 ..... 02 p0235 N84-11544* #
NASA-CR-174519 ..... 02 p0235 N84-11545* #
NASA-CR-174520 ..... 02 p0235 N84-11546* #
NASA-CR-174521 ..... 03 p0392 N84-12555* #
NASA-CR-174522 ..... 01 p0099 N84-10641* #
NASA-CR-174523 ..... 01 p0099 N84-10642* #
NASA-CR-174524 ..... 02 p0236 N84-11547* #
NASA-CR-174526 ..... 02 p0236 N84-11549* #
NASA-CR-174527 ..... 02 p0236 N84-11550* #
NASA-CR-174528 ..... 02 p0236 N84-11551* #
NASA-CR-174529 ..... 02 p0236 N84-11552* #
NASA-CR-174530 ..... 02 p0237 N84-11553* #
NASA-CR-174531 ..... 01 p0041 N84-10266* #
NASA-CR-174532 ..... 01 p0120 N84-10778* #
NASA-CR-174533 ..... 01 p0061 N84-10401* #
NASA-CR-174534 ..... 01 p0042 N84-10267* #
NASA-CR-174535 ..... 01 p0159 N84-11046* #
NASA-CR-174536 ..... 01 p0093 N84-10608* #
NASA-CR-174540 ..... 01 p0139 N84-10910* #
NASA-CR-174541 ..... 01 p0056 N84-10366* #
NASA-CR-174542 ..... 02 p0287 N84-11882* #
NASA-CR-174543 ..... 03 p0392 N84-12556* #
NASA-CR-174544 ..... 02 p0237 N84-11554* #
NASA-CR-174545 ..... 02 p0237 N84-11555* #
NASA-CR-174546 ..... 01 p0099 N84-10644* #
NASA-CR-174547 ..... 02 p0237 N84-11558* #
NASA-CR-174549 ..... 02 p0238 N84-11560* #
NASA-CR-174550 ..... 02 p0238 N84-11561* #
NASA-CR-174551 ..... 02 p0237 N84-11557* #
NASA-CR-174552 ..... 01 p0028 N84-10177* #
NASA-CR-174569 ..... 02 p0308 N84-12019* #
NASA-CR-174570 ..... 02 p0302 N84-11981* #
NASA-CR-174571 ..... 02 p0183 N84-11186* #
NASA-CR-174572 ..... 02 p0167 N84-11098* #
NASA-CR-174573 ..... 02 p0183 N84-11189* #
NASA-CR-174574 ..... 03 p0464 N84-13057* #
NASA-CR-174575 ..... 03 p0465 N84-13058* #
NASA-CR-174576 ..... 12 p1878 N84-22242* #
NASA-CR-174577 ..... 05 p0764 N84-15012* #
NASA-CR-174578 ..... 05 p0733 N84-14813* #
NASA-CR-174579 ..... 05 p0764 N84-15013* #
NASA-CR-174580 ..... 05 p0702 N84-14607* #
NASA-CR-174581 ..... 05 p0696 N84-14572* #
NASA-CR-174582 ..... 05 p0697 N84-14574* #
NASA-CR-174584 ..... 03 p0465 N84-13059* #
NASA-CR-174585 ..... 03 p0311 N84-12028* #
NASA-CR-174586 ..... 04 p0551 N84-13628* #
NASA-CR-174587 ..... 06 p0864 N84-15626* #
NASA-CR-174588 ..... 04 p0551 N84-13629* #
NASA-CR-174589 ..... 04 p0551 N84-13630* #
NASA-CR-174590 ..... 04 p0551 N84-13631* #
NASA-CR-174591 ..... 04 p0551 N84-13632* #
NASA-CR-174592 ..... 04 p0551 N84-13633* #
NASA-CR-174593 ..... 04 p0552 N84-13634* #
NASA-CR-174594 ..... 03 p0407 N84-12664* #
NASA-CR-174595 ..... 03 p0378 N84-12462* #
NASA-CR-174596 ..... 03 p0464 N84-13056* #
NASA-CR-174597 ..... 03 p0347 N84-12257* #
NASA-CR-174598 ..... 03 p0342 N84-12223* #
NASA-CR-174599 ..... 03 p0465 N84-13064* #
NASA-CR-174602 ..... 03 p0348 N84-12263* #
NASA-CR-174605 ..... 05 p0644 N84-14233* #
NASA-CR-174606 ..... 04 p0539 N84-13548* #
NASA-CR-174607 ..... 04 p0559 N84-13688* #
NASA-CR-174608 ..... 04 p0621 N84-14098* #
NASA-CR-174609 ..... 04 p0478 N84-13149* #
NASA-CR-174610 ..... 04 p0518 N84-13401* #
NASA-CR-174611 ..... 04 p0552 N84-13637* #
NASA-CR-174612 ..... 04 p0552 N84-13638* #
NASA-CR-174613 ..... 04 p0553 N84-13639* #
NASA-CR-174614 ..... 04 p0553 N84-13640* #
NASA-CR-174615 ..... 04 p0553 N84-13641* #
NASA-CR-174616 ..... 04 p0553 N84-13643* #
NASA-CR-174617 ..... 04 p0553 N84-13642* #
NASA-CR-174618 ..... 04 p0562 N84-13704* #
NASA-CR-174619 ..... 06 p0878 N84-15710* #
NASA-CR-174621 ..... 10 p1450 N84-19468* #
NASA-CR-174622 ..... 21 p3521 N84-32305* #
NASA-CR-174623 ..... 11 p1624 N84-20632* #
NASA-CR-174624 ..... 17 p2609 N84-26702* #
NASA-CR-174625 ..... 23 p3695 N84-33417* #
NASA-CR-174627 ..... 16 p2473 N84-25854* #
NASA-CR-174628 ..... 10 p1458 N84-19523* #
NASA-CR-174629 ..... 18 p2849 N84-28089* #
NASA-CR-174631 ..... 17 p2733 N84-27375* #
NASA-CR-174633 ..... 12 p1822 N84-21879* #
NASA-CR-174634 ..... 13 p2001 N84-22980* #
NASA-CR-174635-VOL-1 ..... 11 p1621 N84-20611* #
NASA-CR-174635-VOL-2 ..... 11 p1621 N84-20612* #
NASA-CR-174636 ..... 21 p3405 N84-31595* #
NASA-CR-174639 ..... 11 p1633 N84-20674* #
NASA-CR-174640 ..... 16 p2450 N84-25710* #
NASA-CR-174641 ..... 10 p1431 N84-19353* #
NASA-CR-174642 ..... 18 p2820 N84-27908* #
NASA-CR-174644 ..... 14 p2131 N84-23775* #
NASA-CR-174649 ..... 14 p2114 N84-23667* #
NASA-CR-174650 ..... 16 p2450 N84-25711* #
NASA-CR-174655 ..... 23 p3790 N84-34036* #
NASA-CR-174659 ..... 19 p2992 N84-28960* #
NASA-CR-174660 ..... 16 p2518 N84-26165* #

NASA-CR-174661 ..... 12 p1790 N84-21677* #
NASA-CR-174663 ..... 13 p1932 N84-22568* #
NASA-CR-174666 ..... 15 p2343 N84-25065* #
NASA-CR-174667 ..... 14 p2109 N84-23649* #
NASA-CR-174668 ..... 20 p3130 N84-29877* #
NASA-CR-174669 ..... 17 p2628 N84-26813* #
NASA-CR-174670 ..... 21 p3383 N84-31464* #
NASA-CR-174671 ..... 21 p3354 N84-31274* #
NASA-CR-174674 ..... 22 p3677 N84-33307* #
NASA-CR-174675 ..... 15 p2281 N84-24580* #
NASA-CR-174677 ..... 17 p2723 N84-27328* #
NASA-CR-174680 ..... 16 p2439 N84-25646* #
NASA-CR-174683 ..... 15 p2295 N84-24774* #
NASA-CR-174685 ..... 24 p3855 N84-34444* #
NASA-CR-174686 ..... 22 p3554 N84-32503* #
NASA-CR-174688 ..... 14 p2106 N84-23629* #
NASA-CR-174690 ..... 22 p3677 N84-33309* #
NASA-CR-174691 ..... 22 p3554 N84-32504* #
NASA-CR-174694 ..... 19 p3117 N84-29805* #
NASA-CR-174702 ..... 22 p3543 N84-32428* #
NASA-CR-174703 ..... 22 p3543 N84-32429* #
NASA-CR-174704 ..... 21 p3354 N84-31275* #
NASA-CR-174705 ..... 19 p2992 N84-28961* #
NASA-CR-174706 ..... 22 p3603 N84-32828* #
NASA-CR-174714 ..... 17 p2723 N84-27329* #
NASA-CR-174716 ..... 23 p3741 N84-33715* #
NASA-CR-174717 ..... 19 p2966 N84-28794* #
NASA-CR-174720 ..... 23 p3790 N84-34037* #
NASA-CR-174725 ..... 19 p3050 N84-29358* #
NASA-CR-174728 ..... 23 p3836 N84-34331* #
NASA-CR-174755 ..... 22 p3676 N84-33306* #
NASA-CR-174759 ..... 22 p3593 N84-32751* #
NASA-CR-174760 ..... 22 p3536 N84-32390* #
NASA-CR-174761 ..... 22 p3561 N84-32552* #
NASA-CR-174763 ..... 23 p3701 N84-33462* #
NASA-CR-174767 ..... 24 p3878 N84-34575* #
NASA-CR-174774 ..... 24 p3912 N84-34774* #
NASA-CR-174948 ..... 23 p3788 N84-34024* #
NASA-CR-175121 ..... 06 p0878 N84-15711* #
NASA-CR-175122 ..... 06 p0881 N84-15730* #
NASA-CR-175123 ..... 06 p0865 N84-15632* #
NASA-CR-175126 ..... 06 p0794 N84-15173* #
NASA-CR-175128 ..... 18 p2832 N84-27980* #
NASA-CR-175131 ..... 06 p0916 N84-15957* #
NASA-CR-175132 ..... 06 p0919 N84-15972* #
NASA-CR-175134 ..... 06 p0877 N84-15708* #
NASA-CR-175144 ..... 07 p1023 N84-16636* #
NASA-CR-175150 ..... 08 p1186 N84-17725* #
NASA-CR-175151 ..... 11 p1749 N84-21418* #
NASA-CR-175153 ..... 08 p1142 N84-17432* #
NASA-CR-175154 ..... 07 p1035 N84-16712* #
NASA-CR-175155 ..... 15 p2357 N84-25141* #
NASA-CR-175156 ..... 07 p1006 N84-16524* #
NASA-CR-175158 ..... 10 p1578 N84-20336* #
NASA-CR-175159 ..... 08 p1149 N84-17480* #
NASA-CR-175160 ..... 11 p1620 N84-20605* #
NASA-CR-175160-VOL-2 ..... 08 p1108 N84-17203* #
NASA-CR-175165 ..... 08 p1186 N84-17726* #
NASA-CR-175168 ..... 11 p1677 N84-20946* #
NASA-CR-175176 ..... 10 p1484 N84-19705* #
NASA-CR-175178 ..... 09 p1306 N84-18537* #
NASA-CR-175179 ..... 10 p1521 N84-19957* #
NASA-CR-175180 ..... 08 p1186 N84-17727* #
NASA-CR-175185 ..... 08 p1234 N84-18066* #
NASA-CR-175192 ..... 10 p1592 N84-20435* #
NASA-CR-175193 ..... 10 p1433 N84-19369* #
NASA-CR-175194 ..... 10 p1433 N84-19370* #
NASA-CR-175195 ..... 10 p1434 N84-19371* #
NASA-CR-175197 ..... 10 p1434 N84-19373* #
NASA-CR-175198 ..... 10 p1434 N84-19374* #
NASA-CR-175199 ..... 10 p1434 N84-19375* #
NASA-CR-175200 ..... 10 p1434 N84-19376* #
NASA-CR-175203 ..... 10 p1531 N84-20028* #
NASA-CR-175204 ..... 10 p1549 N84-20154* #
NASA-CR-175208 ..... 08 p1185 N84-17718* #
NASA-CR-175209 ..... 10 p1520 N84-19954* #
NASA-CR-175210 ..... 12 p1830 N84-21928* #
NASA-CR-175211 ..... 10 p1439 N84-19394* #
NASA-CR-175212 ..... 10 p1434 N84-19372* #
NASA-CR-175214 ..... 10 p1524 N84-19986* #
NASA-CR-175216 ..... 10 p1533 N84-20042* #
NASA-CR-175219 ..... 10 p1485 N84-19707* #
NASA-CR-175220 ..... 11 p1760 N84-21486* #
NASA-CR-175221 ..... 11 p1662 N84-20841* #
NASA-CR-175225 ..... 16 p2575 N84-26529* #
NASA-CR-175227 ..... 15 p2388 N84-25325* #
NASA-CR-175228 ..... 15 p2338 N84-25036* #
NASA-CR-175230 ..... 15 p2279 N84-24691* #
NASA-CR-175231 ..... 15 p2319 N84-24920* #
NASA-CR-175233 ..... 07 p1089 N84-17080* #
NASA-CR-175234 ..... 08 p1242 N84-18121* #
NASA-CR-175235 ..... 07 p1089 N84-17081* #
NASA-CR-175236 ..... 07 p1089 N84-17079* #
NASA-CR-175240 ..... 18 p2878 N84-28275* #
NASA-CR-175243 ..... 18 p2844 N84-28058* #
NASA-CR-175244 ..... 18 p2828 N84-27955* #
NASA-CR-175245 ..... 18 p2878 N84-28276* #
NASA-CR-175248 ..... 18 p2954 N84-28721* #
NASA-CR-175249 ..... 18 p2832 N84-27976* #
NASA-CR-175250 ..... 19 p3039 N84-29276* #
NASA-CR-175251 ..... 22 p3622 N84-32948* #
NASA-CR-175252 ..... 22 p3539 N84-32405* #
NASA-CR-175253 ..... 22 p3600 N84-32602* #
NASA-CR-175254 ..... 22 p3656 N84-33176* #
NASA-CR-175255 ..... 22 p3614 N84-32896* #
NASA-CR-175257 ..... 22 p3539 N84-32404* #
NASA-CR-175258 ..... 22 p3556 N84-32534* #
NASA-CR-175259 ..... 22 p3598 N84-32785* #
NASA-CR-175260 ..... 22 p3592 N84-32750* #
NASA-CR-175261 ..... 22 p3575 N84-32646* #
NASA-CR-175262 ..... 22 p3576 N84-32647* #
NASA-CR-175263 ..... 22 p3576 N84-32648* #
NASA-CR-175264 ..... 22 p3576 N84-32649* #
NASA-CR-175270 ..... 21 p3426 N84-31735* #
NASA-CR-175271 ..... 10 p1529 N84-20015* #
NASA-CR-175323 ..... 06 p0822 N84-15360* #
NASA-CR-175324 ..... 06 p0793 N84-15188* #
NASA-CR-175325 ..... 06 p0846 N84-15520* #
NASA-CR-175328 ..... 06 p0910 N84-15909* #
NASA-CR-175329 ..... 06 p0938 N84-16095* #
NASA-CR-175330 ..... 06 p0938 N84-16096* #
NASA-CR-175334 ..... 07 p1001 N84-16489* #
NASA-CR-175335 ..... 07 p1061 N84-16877* #
NASA-CR-175336 ..... 07 p1051 N84-16805* #
NASA-CR-175337 ..... 07 p1032 N84-16689* #
NASA-CR-175338 ..... 07 p0945 N84-16131* #
NASA-CR-175340 ..... 07 p1069 N84-16944* #
NASA-CR-175341 ..... 07 p0964 N84-16248* #
NASA-CR-175342 ..... 07 p1054 N84-16824* #
NASA-CR-175343 ..... 07 p1088 N84-17077* #
NASA-CR-175344 ..... 07 p1079 N84-17016* #
NASA-CR-175345 ..... 07 p0991 N84-16422* #
NASA-CR-175347 ..... 07 p1090 N84-17089* #
NASA-CR-175348 ..... 07 p1092 N84-17100* #
NASA-CR-175350 ..... 07 p1090 N84-17090* #
NASA-CR-175351 ..... 07 p1092 N84-17105* #
NASA-CR-175352 ..... 07 p1032 N84-16698* #
NASA-CR-175353 ..... 07 p0967 N84-16264* #
NASA-CR-175354 ..... 07 p0953 N84-16179* #
NASA-CR-175355 ..... 07 p0964 N84-16246* #
NASA-CR-175356 ..... 07 p0950 N84-16163* #
NASA-CR-175357 ..... 07 p1069 N84-16943* #
NASA-CR-175358 ..... 07 p1036 N84-16719* #
NASA-CR-175359 ..... 07 p0945 N84-16134* #
NASA-CR-175360 ..... 07 p0969 N84-16280* #
NASA-CR-175361 ..... 08 p1242 N84-18119* #
NASA-CR-175362 ..... 08 p1190 N84-17755* #
NASA-CR-175364 ..... 08 p1156 N84-17529* #
NASA-CR-175365 ..... 08 p1155 N84-17520* #
NASA-CR-175366 ..... 08 p1169 N84-17616* #
NASA-CR-175368 ..... 08 p1246 N84-18148* #
NASA-CR-175369 ..... 08 p1103 N84-17172* #
NASA-CR-175370 ..... 08 p1185 N84-17721 #
NASA-CR-175371 ..... 08 p1231 N84-18046* #
NASA-CR-175372 ..... 08 p1242 N84-18120* #
NASA-CR-175373 ..... 08 p1186 N84-17728* #
NASA-CR-175374 ..... 08 p1245 N84-18139* #
NASA-CR-175375 ..... 08 p1217 N84-17941* #
NASA-CR-175376 ..... 08 p1242 N84-18122* #
NASA-CR-175378 ..... 08 p1228 N84-18026* #
NASA-CR-175379 ..... 08 p1149 N84-17478* #
NASA-CR-175380 ..... 08 p1103 N84-17171* #
NASA-CR-175381 ..... 09 p1416 N84-19283* #
NASA-CR-175382 ..... 09 p1267 N84-18270* #
NASA-CR-175383 ..... 10 p1521 N84-19959* #
NASA-CR-175384 ..... 10 p1521 N84-19960* #
NASA-CR-175385 ..... 10 p1522 N84-19963* #
NASA-CR-175386 ..... 10 p1522 N84-19964* #
NASA-CR-175387 ..... 10 p1522 N84-19965* #
NASA-CR-175388 ..... 10 p1522 N84-19966* #
NASA-CR-175389 ..... 10 p1553 N84-20175* #
NASA-CR-175390 ..... 11 p1758 N84-21478* #
NASA-CR-175391 ..... 10 p1491 N84-19746* #
NASA-CR-175392 ..... 10 p1490 N84-19744* #
NASA-CR-175393 ..... 10 p1545 N84-20126* #
NASA-CR-175394 ..... 10 p1597 N84-20468* #
NASA-CR-175396 ..... 10 p1454 N84-19495* #
NASA-CR-175397 ..... 10 p1491 N84-19745* #
NASA-CR-175399 ..... 10 p1419 N84-19283* #
NASA-CR-175400 ..... 10 p1500 N84-19803* #
NASA-CR-175401 ..... 10 p1491 N84-19748* #
NASA-CR-175404 ..... 10 p1531 N84-20030* #
NASA-CR-175405 ..... 11 p1671 N84-20905* #
NASA-CR-175406 ..... 10 p1465 N84-19568* #
NASA-CR-175407 ..... 10 p1533 N84-20041* #
NASA-CR-175409 ..... 11 p1754 N84-21448* #
NASA-CR-175410 ..... 11 p1601 N84-20488* #
NASA-CR-175411 ..... 11 p1754 N84-21447* #
NASA-CR-175412 ..... 11 p1752 N84-21437* #
NASA-CR-175413 ..... 12 p1876 N84-22228* #
NASA-CR-175414 ..... 12 p1922 N84-22523* #
NASA-CR-175415 ..... 11 p1737 N84-21331* #

NASA-CR-175416 ..... 11 p1714 N84-21179* #
NASA-CR-175422 ..... 10 p1546 N84-20135* #
NASA-CR-175423 ..... 10 p1473 N84-19620* #
NASA-CR-175424 ..... 11 p1604 N84-20504* #
NASA-CR-175425 ..... 10 p1556 N84-20197* #
NASA-CR-175428 ..... 11 p1681 N84-20970* #
NASA-CR-175430 ..... 11 p1685 N84-20988* #
NASA-CR-175431 ..... 11 p1759 N84-21480* #
NASA-CR-175433 ..... 11 p1662 N84-20844* #
NASA-CR-175434 ..... 12 p1776 N84-21586* #
NASA-CR-175435 ..... 11 p1620 N84-20604* #
NASA-CR-175436 ..... 11 p1621 N84-20610* #
NASA-CR-175437 ..... 11 p1664 N84-20857* #
NASA-CR-175438 ..... 11 p1624 N84-20630* #
NASA-CR-175439 ..... 11 p1693 N84-21045* #
NASA-CR-175440 ..... 11 p1627 N84-20647* #
NASA-CR-175441 ..... 11 p1731 N84-21290* #
NASA-CR-175442 ..... 11 p1662 N84-20843* #
NASA-CR-175443 ..... 11 p1662 N84-20842* #
NASA-CR-175444 ..... 11 p1608 N84-20524* #
NASA-CR-175445 ..... 11 p1681 N84-20972* #
NASA-CR-175446 ..... 11 p1602 N84-20492* #
NASA-CR-175447 ..... 11 p1728 N84-21276* #
NASA-CR-175448 ..... 11 p1623 N84-20627* #
NASA-CR-175451 ..... 11 p1677 N84-20947* #
NASA-CR-177276 ..... 18 p2817 N84-27888* #

NASA-EP-165 ..... 01 p0027 N84-10172* #
NASA-EP-182 ..... 16 p2583 N84-26563* #
NASA-EP-199 ..... 12 p1921 N84-22517* #
NASA-EP-200 ..... 09 p1260 N84-18224* #
NASA-EP-205 ..... 19 p2979 N84-28883* #
NASA-EP-208 ..... 18 p2953 N84-28715* #

NASA-FACTS-139 ..... 03 p0461 N84-13036* #

NASA-HHR-50 ..... 06 p0935 N84-16076* #

NASA-ICASE-83-33 ..... 01 p0127 N84-10831* #

NASA-NEWS-RELEASE-84-4 ..... 07 p0963 N84-16241*

NASA-NF-140 ..... 08 p1109 N84-17210* #

NASA-RP-1089 ..... 23 p3760 N84-33832* #
NASA-RP-1108 ..... 04 p0517 N84-13397* #
NASA-RP-1109 ..... 21 p3525 N84-32330*
NASA-RP-1115 ..... 19 p3069 N84-29465* #
NASA-RP-1116 ..... 07 p1036 N84-16720* #
NASA-RP-1117 ..... 18 p2785 N84-27674* #
NASA-RP-1118 ..... 16 p2574 N84-26520* #
NASA-RP-1119 ..... 16 p2574 N84-26519* #
NASA-RP-1120 ..... 23 p3836 N84-34332* #
NASA-RP-1121 ..... 14 p2119 N84-23698* #
NASA-RP-1123 ..... 17 p2675 N84-27041* #
NASA-RP-1124 ..... 17 p2617 N84-26751* #
NASA-RP-1126 ..... 21 p3413 N84-31640* #
NASA-RP-1131 ..... 23 p3726 N84-33613* #

NASA-SP-221(06) ..... 09 p1329 N84-18677* #
NASA-SP-222(06) ..... 12 p1825 N84-21899* #
NASA-SP-459 ..... 01 p0110 N84-10718* #
NASA-SP-462 ..... 06 p0786 N84-15144* #
NASA-SP-465 ..... 05 p0695 N84-14563*
NASA-SP-466 ..... 12 p1921 N84-22516* #
NASA-SP-471 ..... 09 p1414 N84-19253* #
NASA-SP-473 ..... 15 p2270 N84-24632* #
NASA-SP-474 ..... 24 p3989 N84-35242* #
NASA-SP-4021 ..... 15 p2431 N84-25602* #
NASA-SP-4208 ..... 16 p2454 N84-25737* #
NASA-SP-4212 ..... 24 p3990 N84-35248* #
NASA-SP-7011(250) 03 p0415 N84-12712*
NASA-SP-7011(251) ..... 04 p0572 N84-13767* #
NASA-SP-7011(252) 06 p0886 N84-15763*
NASA-SP-7011(253) 07 p1047 N84-16790*
NASA-SP-7011(254) 11 p1693 N84-21043*
NASA-SP-7011(255) 10 p1546 N84-20134*
NASA-SP-7011(256) 11 p1693 N84-21044*
NASA-SP-7011(257) 12 p1864 N84-22146*
NASA-SP-7011(258) 14 p2184 N84-24088*
NASA-SP-7011(259) 17 p2743 N84-27415*
NASA-SP-7011(260) 19 p3064 N84-29440*
NASA-SP-7011(261) 20 p3259 N84-30683*
NASA-SP-7011(262) 22 p3630 N84-33003*
NASA-SP-7037(165) 01 p0001 N84-10008*
NASA-SP-7037(166) 03 p0311 N84-12027*
NASA-SP-7037(167) ..... 04 p0477 N84-13137* #
NASA-SP-7037(168) ..... 04 p0477 N84-13136* #
NASA-SP-7037(169) 08 p1095 N84-17117*
NASA-SP-7037(170) 10 p1546 N84-20133*
NASA-SP-7037(171) 10 p1419 N84-19279*
NASA-SP-7037(172) 12 p1763 N84-21492*
NASA-SP-7037(173) 16 p2433 N84-25603*
NASA-SP-7037(174) 16 p2433 N84-25604*
NASA-SP-7037(175) 19 p2955 N84-28726*
NASA-SP-7037(176) 19 p2956 N84-28733*
NASA-SP-7037(177) 22 p3529 N84-32342*
NASA-SP-7037(178) 22 p3529 N84-32343*
NASA-SP-7038(05) 09 p1399 N84-19133*
NASA-SP-7038(07) 09 p1399 N84-19134*
NASA-SP-7039(23)-SECT-1 ..... 03 p0458 N84-13017*
NASA-SP-7039(23)-SECT-2 ..... 03 p0458 N84-13018*
NASA-SP-7039(24)-SECT-1 ..... 10 p1592 N84-20432*
NASA-SP-7039(24)-SECT-2 ..... 10 p1592 N84-20433*
NASA-SP-7039(25)-SECT-1 ..... 21 p3516 N84-32272*
NASA-SP-7039(25)-SECT-2 ..... 22 p3669 N84-33257*
NASA-SP-7041(40) 09 p1336 N84-18723*
NASA-SP-7041(41) 14 p2166 N84-23975*
NASA-SP-7041(42) 21 p3425 N84-31725*
NASA-SP-7043(38) 02 p0241 N84-11578*
NASA-SP-7043(39) 10 p1528 N84-20011*
NASA-SP-7043(40) 12 p1837 N84-21977*
NASA-SP-7046(09) ..... 04 p0488 N84-13204* #
NASA-SP-7046(10) 16 p2454 N84-25736*
NASA-SP-7051(SUPPL-1) 13 p2066 N84-23398*
NASA-SP-7500(18) 16 p2561 N84-26429*

NASA-TM-X-2532 ..... 18 p2784 N84-27667* #

NASA-TM-58255 ..... 11 p1693 N84-21040* #
NASA-TM-58256 ..... 07 p0953 N84-16182* #
NASA-TM-58257 ..... 05 p0758 N84-14973* #
NASA-TM-58258 ..... 16 p2544 N84-26328* #
NASA-TM-58259 ..... 18 p2899 N84-28392* #
NASA-TM-58260 ..... 21 p3430 N84-31762* #
NASA-TM-58261 ..... 20 p3259 N84-30684* #
NASA-TM-58262 ..... 21 p3457 N84-31935* #
NASA-TM-76815 ..... 07 p0946 N84-16136* #
NASA-TM-76947 ..... 06 p0786 N84-15143* #
NASA-TM-76953 ..... 11 p1731 N84-21291* #
NASA-TM-76962 ..... 10 p1427 N84-19335* #
NASA-TM-76963 ..... 11 p1620 N84-20602* #
NASA-TM-76973 ..... 09 p1249 N84-18153* #
NASA-TM-76974 ..... 06 p0805 N84-15248* #
NASA-TM-76976 ..... 23 p3804 N84-34117* #
NASA-TM-76977 ..... 07 p0974 N84-16310* #
NASA-TM-76999 ..... 09 p1277 N84-18339* #
NASA-TM-77021 ..... 07 p1012 N84-16563* #
NASA-TM-77025 ..... 06 p0781 N84-15118* #
NASA-TM-77026 ..... 08 p1123 N84-17302* #
NASA-TM-77027 ..... 10 p1464 N84-19563* #
NASA-TM-77029 ..... 09 p1251 N84-18169* #
NASA-TM-77043 ..... 07 p1025 N84-16639* #
NASA-TM-77050 ..... 07 p0959 N84-16219* #
NASA-TM-77052 ..... 24 p3860 N84-34462* #
NASA-TM-77055 ..... 07 p0969 N84-16279* #
NASA-TM-77058 ..... 07 p1033 N84-16702* #
NASA-TM-77061 ..... 07 p0950 N84-16164* #
NASA-TM-77065 ..... 01 p0049 N84-10315* #
NASA-TM-77067 ..... 07 p0978 N84-16336* #
NASA-TM-77076 ..... 07 p0974 N84-16309* #
NASA-TM-77079 ..... 14 p2101 N84-23607* #
NASA-TM-77085 ..... 06 p0852 N84-15552* #
NASA-TM-77086 ..... 07 p0967 N84-16263* #
NASA-TM-77088 ..... 08 p1227 N84-18016* #
NASA-TM-77090 ..... 08 p1197 N84-17804* #
NASA-TM-77092 ..... 06 p0809 N84-15270* #
NASA-TM-77094 ..... 09 p1286 N84-18398* #
NASA-TM-77095 ..... 07 p1042 N84-16755* #
NASA-TM-77096 ..... 10 p1545 N84-20127* #
NASA-TM-77097 ..... 07 p0960 N84-16220* #
NASA-TM-77100 ..... 07 p1033 N84-16700* #
NASA-TM-77102 ..... 17 p2612 N84-26718* #
NASA-TM-77105 ..... 07 p1033 N84-16701* #
NASA-TM-77109 ..... 01 p0069 N84-10452* #
NASA-TM-77121 ..... 16 p2535 N84-26276* #
NASA-TM-77239 ..... 11 p1632 N84-20671* #
NASA-TM-77240 ..... 11 p1641 N84-20729* #
NASA-TM-77242 ..... 01 p0057 N84-10370* #
NASA-TM-77244 ..... 07 p1042 N84-16756* #
NASA-TM-77277 ..... 10 p1434 N84-19378* #
NASA-TM-77285 ..... 06 p0920 N84-15981* #
NASA-TM-77293 ..... 06 p0852 N84-15553* #
NASA-TM-77294 ..... 07 p0960 N84-16226* #
NASA-TM-77295 ..... 07 p1089 N84-17082* #
NASA-TM-77296 ..... 11 p1731 N84-21292* #
NASA-TM-77297 ..... 07 p1091 N84-17094* #
NASA-TM-77298 ..... 09 p1416 N84-19264* #
NASA-TM-77299 ..... 07 p0961 N84-16228* #
NASA-TM-77314 ..... 10 p1556 N84-20196* #
NASA-TM-77325 ..... 07 p0946 N84-16137* #
NASA-TM-77326 ..... 09 p1258 N84-18214* #
NASA-TM-77327 ..... 07 p0950 N84-16166* #
NASA-TM-77328 ..... 07 p1091 N84-17095* #
NASA-TM-77329 ..... 05 p0702 N84-14608* #
NASA-TM-77330 ..... 05 p0643 N84-14228* #
NASA-TM-77334 ..... 05 p0764 N84-15014* #
NASA-TM-77335 ..... 09 p1343 N84-18773* #
NASA-TM-77337 ..... 06 p0877 N84-15709* #
NASA-TM-77338 ..... 06 p0891 N84-15789* #
NASA-TM-77341 ..... 05 p0626 N84-14119* #
NASA-TM-77342 ..... 09 p1343 N84-18774* #

NASA-TM-77343 ..... 10 p1533 N84-20043* #
NASA-TM-77344 ..... 05 p0702 N84-14609* #
NASA-TM-77347 ..... 06 p0782 N84-15124* #
NASA-TM-77349 ..... 06 p0846 N84-15519* #
NASA-TM-77351 ..... 07 p0965 N84-16253* #
NASA-TM-77352 ..... 10 p1471 N84-19607* #
NASA-TM-77355 ..... 10 p1528 N84-20012* #
NASA-TM-77356 ..... 09 p1277 N84-18338* #
NASA-TM-77357 ..... 02 p0293 N84-11922* #
NASA-TM-77358 ..... 07 p1001 N84-16491* #
NASA-TM-77359 ..... 07 p1051 N84-16806* #
NASA-TM-77363 ..... 14 p2121 N84-23711* #
NASA-TM-77364 ..... 07 p0969 N84-16277* #
NASA-TM-77366 ..... 09 p1291 N84-18430* #
NASA-TM-77370 ..... 06 p0782 N84-15119* #
NASA-TM-77373 ..... 06 p0782 N84-15122* #
NASA-TM-77374 ..... 06 p0920 N84-15960* #
NASA-TM-77375 ..... 09 p1275 N84-18324* #
NASA-TM-77378 ..... 11 p1636 N84-20698* #
NASA-TM-77379 ..... 07 p1083 N84-17046* #
NASA-TM-77380 ..... 10 p1432 N84-19359* #
NASA-TM-77381 ..... 07 p1001 N84-16490* #
NASA-TM-77383 ..... 10 p1465 N84-19569* #
NASA-TM-77385 ..... 11 p1636 N84-20696* #
NASA-TM-77386 ..... 14 p2222 N84-24330* #
NASA-TM-77387 ..... 10 p1587 N84-20402* #
NASA-TM-77388 ..... 10 p1576 N84-20340* #
NASA-TM-77389 ..... 10 p1587 N84-20403* #
NASA-TM-77394 ..... 14 p2119 N84-23700* #
NASA-TM-77395 ..... 10 p1450 N84-19471* #
NASA-TM-77396 ..... 10 p1450 N84-19470* #
NASA-TM-77397 ..... 23 p3723 N84-33593* #
NASA-TM-77398 ..... 10 p1451 N84-19476* #
NASA-TM-77402 ..... 10 p1453 N84-19491* #
NASA-TM-77404 ..... 14 p2224 N84-24346* #
NASA-TM-77407 ..... 09 p1251 N84-18170* #
NASA-TM-77408 ..... 19 p3022 N84-29160* #
NASA-TM-77409 ..... 16 p2504 N84-26068* #
NASA-TM-77410 ..... 11 p1601 N84-20489* #
NASA-TM-77412 ..... 14 p2175 N84-24031* #
NASA-TM-77414 ..... 23 p3713 N84-33535* #
NASA-TM-77419 ..... 23 p3690 N84-33384* #
NASA-TM-77420 ..... 24 p3888 N84-34618* #
NASA-TM-77421 ..... 14 p2129 N84-23765* #
NASA-TM-77424 ..... 19 p2985 N84-28918* #
NASA-TM-77425 ..... 16 p2470 N84-25829* #
NASA-TM-77428 ..... 10 p1454 N84-19494* #
NASA-TM-77430 ..... 19 p3002 N84-29025* #
NASA-TM-77431 ..... 19 p3021 N84-29154* #
NASA-TM-77432 ..... 14 p2121 N84-23712* #
NASA-TM-77433 ..... 14 p2119 N84-23699* #
NASA-TM-77435 ..... 11 p1636 N84-20697* #
NASA-TM-77436 ..... 19 p3110 N84-29758* #
NASA-TM-77438 ..... 19 p2997 N84-28991* #
NASA-TM-77445 ..... 14 p2221 N84-24325* #
NASA-TM-77446 ..... 16 p2548 N84-26351* #
NASA-TM-77447 ..... 19 p2987 N84-28927* #
NASA-TM-77448 ..... 24 p3899 N84-34693* #
NASA-TM-77449 ..... 19 p3035 N84-29250* #
NASA-TM-77453 ..... 19 p3050 N84-29356* #
NASA-TM-77454 ..... 19 p2997 N84-28992* #
NASA-TM-77455 ..... 10 p1490 N84-19742* #
NASA-TM-77456 ..... 10 p1485 N84-19706* #
NASA-TM-77457 ..... 10 p1451 N84-19477* #
NASA-TM-77458 ..... 10 p1453 N84-19492* #
NASA-TM-77459 ..... 10 p1451 N84-19478* #
NASA-TM-77460 ..... 19 p2968 N84-28808* #
NASA-TM-77461 ..... 23 p3750 N84-33772* #
NASA-TM-77462 ..... 20 p3183 N84-30222* #
NASA-TM-77466 ..... 16 p2560 N84-26421* #
NASA-TM-77470 ..... 14 p2250 N84-24514* #
NASA-TM-77474 ..... 23 p3826 N84-34266* #
NASA-TM-77476 ..... 23 p3700 N84-33451* #
NASA-TM-77479 ..... 19 p2965 N84-28793* #
NASA-TM-77481 ..... 24 p3857 N84-34451* #
NASA-TM-77482 ..... 19 p2969 N84-28814* #
NASA-TM-77487 ..... 23 p3713 N84-33533* #
NASA-TM-77497 ..... 23 p3746 N84-33748* #
NASA-TM-77506 ..... 19 p3012 N84-29095* #
NASA-TM-77507 ..... 24 p3965 N84-35106* #
NASA-TM-77515 ..... 24 p3968 N84-35124* #
NASA-TM-77531 ..... 07 p0973 N84-16308* #
NASA-TM-77533 ..... 10 p1490 N84-19743* #
NASA-TM-77534 ..... 09 p1312 N84-18576* #
NASA-TM-77552 ..... 24 p3883 N84-34602* #
NASA-TM-77554 ..... 14 p2114 N84-23668* #
NASA-TM-77558 ..... 24 p3991 N84-35260* #
NASA-TM-77578 ..... 14 p2134 N84-23786* #
NASA-TM-77596 ..... 24 p3878 N84-34574* #
NASA-TM-77618 ..... 24 p3910 N84-34764* #
NASA-TM-77619 ..... 24 p3902 N84-34709* #
NASA-TM-77620 ..... 23 p3700 N84-33454* #
NASA-TM-77622 ..... 23 p3723 N84-33594* #
NASA-TM-77719 ..... 19 p3031 N84-29225* #
NASA-TM-77722 ..... 24 p3852 N84-34432* #
NASA-TM-77729 ..... 24 p3866 N84-34502* #
NASA-TM-77730 ..... 24 p3900 N84-34694* #
NASA-TM-77745 ..... 24 p3854 N84-34438* #
NASA-TM-77749 ..... 23 p3894 N84-33411* #
NASA-TM-77755 ..... 23 p3894 N84-33413* #
NASA-TM-77757 ..... 23 p3689 N84-33380* #
NASA-TM-77758 ..... 23 p3812 N84-34172* #
NASA-TM-77759 ..... 24 p3961 N84-35086* #
NASA-TM-77764 ..... 23 p3797 N84-34074* #
NASA-TM-77767 ..... 23 p3689 N84-33381* #
NASA-TM-80258 ..... 17 p2709 N84-27248* #
NASA-TM-81401 ..... 23 p3790 N84-34038* #
NASA-TM-81733 ..... 12 p1917 N84-22488* #
NASA-TM-81909-SUPPL ..... 17 p2610 N84-26708* #
NASA-TM-81922 ..... 18 p2786 N84-27684* #
NASA-TM-82535 ..... 01 p0018 N84-10112* #
NASA-TM-82546 ..... 01 p0029 N84-10183* #
NASA-TM-82547 ..... 05 p0759 N84-14974* #
NASA-TM-82548 ..... 03 p0338 N84-12196* #
NASA-TM-82549 ..... 08 p1113 N84-17239* #
NASA-TM-82550 ..... 06 p0904 N84-15866* #
NASA-TM-82551 ..... 02 p0243 N84-11593* #
NASA-TM-82552 ..... 02 p0229 N84-11499* #
NASA-TM-82553 ..... 03 p0352 N84-12288* #
NASA-TM-82554 ..... 04 p0488 N84-13205* #
NASA-TM-82556 ..... 13 p1989 N84-22912* #
NASA-TM-82557 ..... 05 p0662 N84-14352* #
NASA-TM-82558 ..... 05 p0653 N84-14290* #
NASA-TM-82559 ..... 04 p0596 N84-13933* #
NASA-TM-82560 ..... 05 p0708 N84-14636* #
NASA-TM-82561 ..... 04 p0570 N84-13756* #
NASA-TM-82562 ..... 06 p0935 N84-16075* #
NASA-TM-82563 ..... 06 p0809 N84-15269* #
NASA-TM-82564 ..... 08 p1245 N84-18141* #
NASA-TM-82565 ..... 09 p1306 N84-18535* #
NASA-TM-82566 ..... 08 p1190 N84-17756* #
NASA-TM-82567 ..... 10 p1450 N84-19469* #
NASA-TM-82568 ..... 10 p1497 N84-19786* #
NASA-TM-82569 ..... 11 p1633 N84-20675* #
NASA-TM-82570 ..... 10 p1578 N84-20341* #
NASA-TM-82571 ..... 12 p1779 N84-21607* #
NASA-TM-82572 ..... 14 p2179 N84-24047* #
NASA-TM-82574 ..... 13 p2016 N84-23073* #
NASA-TM-82575 ..... 13 p2016 N84-23071* #
NASA-TM-82577 ..... 15 p2371 N84-25220* #
NASA-TM-82578 ..... 16 p2455 N84-25745* #
NASA-TM-82579 ..... 15 p2295 N84-24773* #
NASA-TM-82580 ..... 15 p2366 N84-25194* #
NASA-TM-82581 ..... 16 p2462 N84-25778* #
NASA-TM-82582 ..... 17 p2775 N84-27617* #
NASA-TM-82583 ..... 18 p2852 N84-28109* #
NASA-TM-82584 ..... 18 p2852 N84-28111* #
NASA-TM-82585 ..... 17 p2615 N84-26740* #
NASA-TM-82586 ..... 18 p2951 N84-28710* #
NASA-TM-82587 ..... 19 p3034 N84-29246* #
NASA-TM-82588 ..... 19 p3057 N84-29398* #
NASA-TM-82742 ..... 09 p1348 N84-18806* #
NASA-TM-83061 ..... 01 p0141 N84-10923* #
NASA-TM-83092 ..... 05 p0759 N84-14975* #
NASA-TM-83111 ..... 19 p2957 N84-28739* #
NASA-TM-83180 ..... 18 p2920 N84-28517* #
NASA-TM-83218 ..... 18 p2788 N84-27696* #
NASA-TM-83253 ..... 18 p2920 N84-28518* #
NASA-TM-83304 ..... 19 p3073 N84-29500* #
NASA-TM-83381 ..... 02 p0208 N84-11358* #
NASA-TM-83403 ..... 01 p0102 N84-10665* #
NASA-TM-83415 ..... 02 p0208 N84-11360* #
NASA-TM-83446 ..... 07 p0954 N84-16185* #
NASA-TM-83449 ..... 01 p0048 N84-10310* #
NASA-TM-83460 ..... 04 p0557 N84-13670* #
NASA-TM-83463 ..... 02 p0287 N84-11885* #
NASA-TM-83467 ..... 05 p0742 N84-14874* #
NASA-TM-83468 ..... 05 p0761 N84-14989* #
NASA-TM-83469 ..... 02 p0241 N84-11579* #
NASA-TM-83478 ..... 02 p0231 N84-11512* #
NASA-TM-83479 ..... 08 p1131 N84-17355* #
NASA-TM-83481 ..... 02 p0279 N84-11831* #
NASA-TM-83483 ..... 01 p0102 N84-10664* #
NASA-TM-83486 ..... 05 p0652 N84-14288* #
NASA-TM-83488 ..... 07 p1001 N84-16492* #
NASA-TM-83489 ..... 02 p0186 N84-11206* #
NASA-TM-83490 ..... 05 p0631 N84-14145* #
NASA-TM-83492 ..... 03 p0352 N84-12287* #
NASA-TM-83495 ..... 04 p0548 N84-13610* #
NASA-TM-83497 ..... 10 p1529 N84-20016* #
NASA-TM-83502 ..... 02 p0287 N84-11883* #
NASA-TM-83503 ..... 04 p0594 N84-13922* #
NASA-TM-83504 ..... 10 p1529 N84-20017* #
NASA-TM-83506 ..... 06 p0805 N84-15249* #
NASA-TM-83507 ..... 05 p0691 N84-14541* #
NASA-TM-83508 ..... 03 p0333 N84-12166* #
NASA-TM-83509 ..... 05 p0692 N84-14542* #
NASA-TM-83510 ..... 03 p0418 N84-12730* #
NASA-TM-83512 ..... 02 p0199 N84-11295* #
NASA-TM-83513 ..... 02 p0222 N84-11456* #
NASA-TM-83514 ..... 05 p0752 N84-14932* #
NASA-TM-83515 ..... 07 p1069 N84-16948* #

NASA-TM-83516 ..... 01 p0062 N84-10405* #
NASA-TM-83518 ..... 04 p0517 N84-13399* #
NASA-TM-83519 ..... 05 p0626 N84-14120* #
NASA-TM-83520 ..... 10 p1575 N84-20320* #
NASA-TM-83522 ..... 10 p1476 N84-19640* #
NASA-TM-83523 ..... 02 p0229 N84-11500* #
NASA-TM-83524 ..... 02 p0228 N84-11498* #
NASA-TM-83525 ..... 04 p0595 N84-13924* #
NASA-TM-83526 ..... 07 p1001 N84-16493* #
NASA-TM-83528 ..... 04 p0498 N84-13264* #
NASA-TM-83529 ..... 02 p0199 N84-11296* #
NASA-TM-83530 ..... 09 p1272 N84-18310* #
NASA-TM-83531 ..... 04 p0517 N84-13400* #
NASA-TM-83532 ..... 05 p0699 N84-14586* #
NASA-TM-83533 ..... 02 p0193 N84-11254* #
NASA-TM-83534 ..... 05 p0627 N84-14121* #
NASA-TM-83535 ..... 06 p0805 N84-15246* #
NASA-TM-83536 ..... 05 p0688 N84-14519* #
NASA-TM-83537 ..... 07 p1001 N84-16494* #
NASA-TM-83538 ..... 04 p0485 N84-13188* #
NASA-TM-83539 ..... 07 p1016 N84-16589* #
NASA-TM-83540 ..... 04 p0615 N84-14061* #
NASA-TM-83541 ..... 05 p0631 N84-14146* #
NASA-TM-83542 ..... 05 p0625 N84-14111* #
NASA-TM-83543 ..... 02 p0243 N84-11594* #
NASA-TM-83544 ..... 07 p0954 N84-16186* #
NASA-TM-83545 ..... 04 p0578 N84-13812* #
NASA-TM-83546 ..... 17 p2722 N84-27327* #
NASA-TM-83547 ..... 07 p1015 N84-16587* #
NASA-TM-83548 ..... 04 p0532 N84-13494* #
NASA-TM-83549 ..... 07 p1015 N84-16588* #
NASA-TM-83550 ..... 07 p1052 N84-16812* #
NASA-TM-83551 ..... 05 p0652 N84-14289* #
NASA-TM-83552 ..... 07 p0962 N84-16234* #
NASA-TM-83553 ..... 04 p0477 N84-13140* #
NASA-TM-83554 ..... 05 p0631 N84-14147* #
NASA-TM-83555 ..... 08 p1098 N84-17143* #
NASA-TM-83557 ..... 05 p0679 N84-14463* #
NASA-TM-83558 ..... 04 p0485 N84-13190* #
NASA-TM-83559 ..... 08 p1222 N84-17982* #
NASA-TM-83560 ..... 07 p0974 N84-16311* #
NASA-TM-83561 ..... 07 p0954 N84-16184* #
NASA-TM-83562 ..... 11 p1601 N84-20490* #
NASA-TM-83563 ..... 08 p1131 N84-17354* #
NASA-TM-83564 ..... 04 p0483 N84-13173* #
NASA-TM-83565 ..... 07 p0985 N84-16380* #
NASA-TM-83566 ..... 08 p1130 N84-17351* #
NASA-TM-83568 ..... 07 p0961 N84-16229* #
NASA-TM-83569 ..... 20 p3129 N84-29870* #
NASA-TM-83570 ..... 08 p1166 N84-17591* #
NASA-TM-83571 ..... 07 p0947 N84-16142* #
NASA-TM-83572 ..... 08 p1130 N84-17352* #
NASA-TM-83574 ..... 16 p2470 N84-25831* #
NASA-TM-83575 ..... 08 p1098 N84-17142* #
NASA-TM-83576 ..... 07 p0946 N84-16141* #
NASA-TM-83577 ..... 09 p1330 N84-18683* #
NASA-TM-83578 ..... 08 p1166 N84-17592* #
NASA-TM-83579 ..... 12 p1771 N84-21548* #
NASA-TM-83580 ..... 11 p1632 N84-20672* #
NASA-TM-83581 ..... 08 p1149 N84-17479* #
NASA-TM-83582 ..... 10 p1498 N84-19787* #
NASA-TM-83583 ..... 11 p1632 N84-20673* #
NASA-TM-83584 ..... 10 p1485 N84-19708* #
NASA-TM-83585 ..... 10 p1465 N84-19566* #
NASA-TM-83586 ..... 08 p1157 N84-17533* #
NASA-TM-83587 ..... 16 p2553 N84-26383* #
NASA-TM-83588 ..... 08 p1098 N84-17138* #
NASA-TM-83589 ..... 07 p0943 N84-16119* #
NASA-TM-83590 ..... 12 p1810 N84-21803* #
NASA-TM-83591 ..... 10 p1476 N84-19641* #
NASA-TM-83592 ..... 10 p1502 N84-19816* #
NASA-TM-83593 ..... 16 p2569 N84-26484* #
NASA-TM-83594 ..... 15 p2284 N84-24712* #
NASA-TM-83595 ..... 08 p1131 N84-17353* #
NASA-TM-83596 ..... 10 p1465 N84-19567* #
NASA-TM-83598 ..... 14 p2118 N84-23691* #
NASA-TM-83599 ..... 12 p1797 N84-21719* #
NASA-TM-83600 ..... 10 p1587 N84-20404* #
NASA-TM-83601 ..... 11 p1625 N84-20639* #
NASA-TM-83602 ..... 11 p1736 N84-21329* #
NASA-TM-83603 ..... 11 p1737 N84-21330* #
NASA-TM-83604 ..... 11 p1664 N84-20858* #
NASA-TM-83605 ..... 10 p1566 N84-20258* #
NASA-TM-83606 ..... 10 p1566 N84-20259* #
NASA-TM-83608 ..... 16 p2498 N84-26029* #
NASA-TM-83609 ..... 19 p2992 N84-28962* #
NASA-TM-83610 ..... 12 p1789 N84-21666* #
NASA-TM-83611 ..... 13 p1989 N84-22910* #
NASA-TM-83612 ..... 11 p1673 N84-20916* #
NASA-TM-83613 ..... 12 p1815 N84-21832* #
NASA-TM-83614 ..... 13 p1989 N84-22911* #
NASA-TM-83615 ..... 13 p1932 N84-22567* #
NASA-TM-83616 ..... 13 p2040 N84-23235* #
NASA-TM-83617 ..... 13 p1989 N84-22909* #
NASA-TM-83618 ..... 13 p2008 N84-23026* #
NASA-TM-83619 ..... 15 p2343 N84-25064* #
NASA-TM-83620 ..... 12 p1907 N84-22421* #
NASA-TM-83622 ..... 19 p2997 N84-28990* #
NASA-TM-83623 ..... 17 p2622 N84-26785* #
NASA-TM-83624 ..... 16 p2459 N84-25762* #
NASA-TM-83625 ..... 16 p2483 N84-25926* #
NASA-TM-83626 ..... 13 p1960 N84-22735* #
NASA-TM-83627 ..... 16 p2438 N84-25644* #
NASA-TM-83628 ..... 12 p1800 N84-21739* #
NASA-TM-83629 ..... 15 p2301 N84-24808* #
NASA-TM-83630 ..... 12 p1818 N84-21849* #
NASA-TM-83631 ..... 13 p1954 N84-22702* #
NASA-TM-83632 ..... 19 p2985 N84-28917* #
NASA-TM-83633 ..... 16 p2481 N84-25908* #
NASA-TM-83634 ..... 14 p2157 N84-23923* #
NASA-TM-83635 ..... 13 p1926 N84-22533* #
NASA-TM-83636 ..... 13 p1925 N84-22527* #
NASA-TM-83637 ..... 13 p1932 N84-22565* #
NASA-TM-83638 ..... 13 p1942 N84-22631* #
NASA-TM-83639 ..... 13 p1932 N84-22566* #
NASA-TM-83640 ..... 13 p1932 N84-22564* #
NASA-TM-83641 ..... 15 p2261 N84-24581* #
NASA-TM-83643 ..... 13 p2008 N84-23025* #
NASA-TM-83644 ..... 14 p2118 N84-23690* #
NASA-TM-83646 ..... 13 p1985 N84-22890* #
NASA-TM-83647 ..... 13 p2008 N84-23024* #
NASA-TM-83648 ..... 13 p1940 N84-22615* #
NASA-TM-83649 ..... 12 p1921 N84-22512* #
NASA-TM-83650 ..... 14 p2249 N84-24509* #
NASA-TM-83651 ..... 13 p2008 N84-23022* #
NASA-TM-83652 ..... 13 p1986 N84-22891* #
NASA-TM-83653 ..... 13 p1955 N84-22712* #
NASA-TM-83655 ..... 15 p2262 N84-24589* #
NASA-TM-83656 ..... 13 p1986 N84-22892* #
NASA-TM-83657 ..... 15 p2361 N84-25166* #
NASA-TM-83658 ..... 15 p2335 N84-25019* #
NASA-TM-83659 ..... 19 p2992 N84-28963* #
NASA-TM-83660 ..... 16 p2450 N84-25712* #
NASA-TM-83661 ..... 14 p2118 N84-23693* #
NASA-TM-83662 ..... 18 p2828 N84-27954* #
NASA-TM-83663 ..... 15 p2295 N84-24772* #
NASA-TM-83664 ..... 13 p2008 N84-23023* #
NASA-TM-83665 ..... 21 p3365 N84-31345* #
NASA-TM-83666 ..... 15 p2331 N84-24999* #
NASA-TM-83667 ..... 13 p2008 N84-23027* #
NASA-TM-83668 ..... 15 p2261 N84-24583* #
NASA-TM-83669 ..... 16 p2439 N84-25647* #
NASA-TM-83670 ..... 16 p2470 N84-25830* #
NASA-TM-83671 ..... 23 p3821 N84-34231* #
NASA-TM-83672 ..... 18 p2813 N84-27858* #
NASA-TM-83673 ..... 18 p2813 N84-27859* #
NASA-TM-83674 ..... 18 p2808 N84-27825* #
NASA-TM-83675 ..... 19 p3034 N84-29247* #
NASA-TM-83676 ..... 16 p2464 N84-25793* #
NASA-TM-83679 ..... 14 p2109 N84-23648* #
NASA-TM-83680 ..... 19 p3049 N84-29347* #
NASA-TM-83681 ..... 15 p2335 N84-25017* #
NASA-TM-83682 ..... 15 p2261 N84-24584* #
NASA-TM-83684 ..... 21 p3433 N84-31782* #
NASA-TM-83685 ..... 22 p3542 N84-32426* #
NASA-TM-83686 ..... 15 p2261 N84-24582* #
NASA-TM-83687 ..... 15 p2283 N84-24708 #
NASA-TM-83688 ..... 16 p2457 N84-25753* #
NASA-TM-83689 ..... 15 p2261 N84-24579* #
NASA-TM-83690 ..... 17 p2616 N84-26746* #
NASA-TM-83691 ..... 19 p2985 N84-28918* #
NASA-TM-83692 ..... 16 p2495 N84-26010* #
NASA-TM-83694 ..... 16 p2460 N84-25770* #
NASA-TM-83695 ..... 15 p2262 N84-24585* #
NASA-TM-83696 ..... 18 p2809 N84-27832* #
NASA-TM-83697 ..... 15 p2255 N84-24539* #
NASA-TM-83699 ..... 19 p2985 N84-28791* #
NASA-TM-83700 ..... 17 p2618 N84-26755* #
NASA-TM-83701 ..... 18 p2809 N84-27831* #
NASA-TM-83702 ..... 17 p2618 N84-26756* #
NASA-TM-83703 ..... 15 p2331 N84-25000* #
NASA-TM-83704 ..... 16 p2486 N84-25946* #
NASA-TM-83706 ..... 17 p2626 N84-26803* #
NASA-TM-83707 ..... 16 p2460 N84-25766* #
NASA-TM-83708 ..... 16 p2450 N84-25713* #
NASA-TM-83709 ..... 16 p2433 N84-25605* #
NASA-TM-83710 ..... 16 p2433 N84-25607* #
NASA-TM-83712 ..... 17 p2675 N84-27043* #
NASA-TM-83713 ..... 17 p2675 N84-27042* #
NASA-TM-83714 ..... 17 p2623 N84-26787* #
NASA-TM-83715 ..... 16 p2459 N84-25764* #
NASA-TM-83716 ..... 16 p2433 N84-25606* #
NASA-TM-83717 ..... 18 p2813 N84-27857* #
NASA-TM-83718 ..... 19 p2997 N84-28994* #
NASA-TM-83719 ..... 18 p2817 N84-27887* #
NASA-TM-83721 ..... 18 p2849 N84-28087* #
NASA-TM-83722 ..... 19 p3034 N84-29248* #
NASA-TM-83723 ..... 19 p3031 N84-29224* #
NASA-TM-83724 ..... 18 p2849 N84-28088* #
NASA-TM-83725 ..... 19 p3031 N84-29223* #
NASA-TM-83726 ..... 20 p3195 N84-30294* #
NASA-TM-83727 ..... 20 p3161 N84-30072* #

NASA-TM-83728 ..... 18 p2807 N84-27824* #
NASA-TM-83729 ..... 21 p3356 N84-31286* #
NASA-TM-83730 ..... 19 p2965 N84-28790* #
NASA-TM-83731 ..... 20 p3183 N84-30223* #
NASA-TM-83732 ..... 19 p3021 N84-29157* #
NASA-TM-83733 ..... 22 p3529 N84-32344* #
NASA-TM-83734 ..... 20 p3183 N84-30224* #
NASA-TM-83735 ..... 20 p3200 N84-30329* #
NASA-TM-83736 ..... 20 p3130 N84-29876* #
NASA-TM-83737 ..... 21 p3419 N84-31683* #
NASA-TM-83738 ..... 21 p3365 N84-31344* #
NASA-TM-83739 ..... 22 p3531 N84-32357* #
NASA-TM-83740 ..... 20 p3195 N84-30293* #
NASA-TM-83741 ..... 20 p3130 N84-29876* #
NASA-TM-83743 ..... 21 p3390 N84-31512* #
NASA-TM-83744 ..... 21 p3490 N84-32118* #
NASA-TM-83745 ..... 21 p3382 N84-31460* #
NASA-TM-83746 ..... 24 p3888 N84-34620* #
NASA-TM-83749 ..... 20 p3173 N84-30147* #
NASA-TM-83751 ..... 21 p3398 N84-31558* #
NASA-TM-83753 ..... 20 p3192 N84-30273* #
NASA-TM-83755 ..... 21 p3390 N84-31513* #
NASA-TM-83756 ..... 21 p3419 N84-31687* #
NASA-TM-83757 ..... 21 p3355 N84-31283* #
NASA-TM-83758 ..... 21 p3324 N84-31091* #
NASA-TM-83759 ..... 20 p3172 N84-30146* #
NASA-TM-83760 ..... 21 p3491 N84-32122* #
NASA-TM-83761 ..... 23 p3713 N84-33536* #
NASA-TM-83762 ..... 22 p3555 N84-32508* #
NASA-TM-83764 ..... 23 p3821 N84-34230* #
NASA-TM-83765 ..... 23 p3694 N84-33414* #
NASA-TM-83766 ..... 21 p3498 N84-32169* #
NASA-TM-83768 ..... 22 p3543 N84-32427* #
NASA-TM-83769 ..... 23 p3717 N84-33564* #
NASA-TM-83770 ..... 21 p3354 N84-31272* #
NASA-TM-83772 ..... 21 p3325 N84-31096* #
NASA-TM-83773 ..... 23 p3726 N84-33608* #
NASA-TM-83774 ..... 21 p3382 N84-31461* #
NASA-TM-83775 ..... 22 p3575 N84-32644* #
NASA-TM-83777 ..... 21 p3365 N84-31347* #
NASA-TM-83778 ..... 21 p3365 N84-31348* #
NASA-TM-83779 ..... 22 p3558 N84-32531* #
NASA-TM-83780 ..... 22 p3530 N84-32351* #
NASA-TM-83781 ..... 22 p3597 N84-32783* #
NASA-TM-83782 ..... 24 p3883 N84-34603* #
NASA-TM-83785 ..... 22 p3598 N84-32789* #
NASA-TM-83786 ..... 23 p3711 N84-33522* #
NASA-TM-83788 ..... 22 p3606 N84-32849* #
NASA-TM-83789 ..... 23 p3730 N84-33642* #
NASA-TM-83792 ..... 24 p3888 N84-34619* #
NASA-TM-83794 ..... 24 p3911 N84-34769* #
NASA-TM-83795 ..... 22 p3540 N84-32411* #
NASA-TM-83799 ..... 24 p3961 N84-35085* #
NASA-TM-83802 ..... 24 p3878 N84-34576* #
NASA-TM-83916 ..... 17 p2721 N84-27319* #
NASA-TM-83937 ..... 02 p0237 N84-11556* #
NASA-TM-83958 ..... 04 p0622 N84-14103* #
NASA-TM-83997 ..... 24 p3944 N84-34974* #
NASA-TM-84319-PT-2 ..... 15 p2254 N84-24537* #
NASA-TM-84325 ..... 07 p1007 N84-16530* #
NASA-TM-84332 ..... 12 p1893 N84-22326* #
NASA-TM-84336 ..... 02 p0181 N84-11177* #
NASA-TM-84343 ..... 01 p0003 N84-10021* #
NASA-TM-84350 ..... 02 p0186 N84-11212* #
NASA-TM-84351 ..... 22 p3535 N84-32380* #
NASA-TM-84358 ..... 02 p0176 N84-11157* #
NASA-TM-84360 ..... 16 p2574 N84-26518* #
NASA-TM-84368 ..... 02 p0269 N84-11760* #
NASA-TM-84373 ..... 01 p0007 N84-10043* #
NASA-TM-84375 ..... 01 p0076 N84-10498* #
NASA-TM-84376 ..... 07 p0959 N84-16216* #
NASA-TM-84377 ..... 01 p0003 N84-10019* #
NASA-TM-84384 ..... 02 p0193 N84-11255* #
NASA-TM-84387 ..... 02 p0180 N84-11176* #
NASA-TM-84390 ..... 09 p1386 N84-19050* #
NASA-TM-84391 ..... 01 p0008 N84-10049* #
NASA-TM-84393 ..... 07 p0947 N84-16144* #
NASA-TM-84394 ..... 17 p2606 N84-26693* #
NASA-TM-84395 ..... 04 p0483 N84-13178* #
NASA-TM-84396 ..... 07 p0946 N84-16138* #
NASA-TM-84397 ..... 01 p0007 N84-10042* #
NASA-TM-84398 ..... 01 p0007 N84-10041* #
NASA-TM-84400 ..... 01 p0113 N84-10732* #
NASA-TM-84401 ..... 02 p0174 N84-11142* #
NASA-TM-84402 ..... 14 p2211 N84-24276* #
NASA-TM-84406 ..... 04 p0604 N84-13985* #
NASA-TM-84407 ..... 05 p0679 N84-14464* #
NASA-TM-84408 ..... 02 p0181 N84-11178* #
NASA-TM-84409 ..... 01 p0003 N84-10018* #
NASA-TM-84410 ..... 09 p1312 N84-18573* #
NASA-TM-84411 ..... 01 p0111 N84-10724* #
NASA-TM-84421 ..... 16 p2566 N84-26467* #
NASA-TM-84422 ..... 15 p2371 N84-25223* #
NASA-TM-84425 ..... 16 p2481 N84-25907* #
NASA-TM-84579 ..... 04 p0479 N84-13151* #
NASA-TM-84593 ..... 17 p2679 N84-27065* #
NASA-TM-84594 ..... 06 p0782 N84-15120* #
NASA-TM-84617 ..... 06 p0794 N84-15172* #
NASA-TM-84618 ..... 04 p0480 N84-13160* #
NASA-TM-84653 ..... 08 p1227 N84-18018* #
NASA-TM-84658 ..... 06 p0834 N84-15426* #
NASA-TM-84903 ..... 05 p0630 N84-14144* #
NASA-TM-84909 ..... 13 p1931 N84-22557* #
NASA-TM-84910 ..... 09 p1257 N84-18203* #
NASA-TM-84911 ..... 11 p1606 N84-20514* #
NASA-TM-84912 ..... 12 p1769 N84-21537* #
NASA-TM-84915 ..... 05 p0627 N84-14122* #
NASA-TM-84916 ..... 18 p2796 N84-27743* #
NASA-TM-84917 ..... 11 p1607 N84-20520* #
NASA-TM-84920 ..... 06 p0791 N84-15159* #
NASA-TM-84921 ..... 05 p0628 N84-14129* #
NASA-TM-84922 ..... 07 p0952 N84-16176* #
NASA-TM-84925 ..... 06 p0858 N84-15588* #
NASA-TM-84969 ..... 04 p0566 N84-13735* #
NASA-TM-84982 ..... 04 p0562 N84-13705* #
NASA-TM-85012 ..... 24 p3918 N84-34807* #
NASA-TM-85029 ..... 24 p3994 N84-35281* #
NASA-TM-85037 ..... 24 p3989 N84-35243* #
NASA-TM-85049 ..... 03 p0466 N84-13065* #
NASA-TM-85053 ..... 03 p0440 N84-12889* #
NASA-TM-85058 ..... 07 p0964 N84-16249* #
NASA-TM-85063 ..... 13 p2072 N84-23430* #
NASA-TM-85066 ..... 06 p0852 N84-15555* #
NASA-TM-85069 ..... 11 p1760 N84-21488* #
NASA-TM-85070 ..... 02 p0208 N84-11359* #
NASA-TM-85071 ..... 22 p3681 N84-33333* #
NASA-TM-85072 ..... 01 p0107 N84-10692* #
NASA-TM-85074 ..... 06 p0940 N84-16108* #
NASA-TM-85078 ..... 02 p0233 N84-11527* #
NASA-TM-85082 ..... 02 p0253 N84-11658* #
NASA-TM-85087 ..... 02 p0307 N84-12012* #
NASA-TM-85092 ..... 02 p0248 N84-11624* #
NASA-TM-85093 ..... 02 p0257 N84-11684* #
NASA-TM-85095 ..... 01 p0165 N84-11083* #
NASA-TM-85098 ..... 02 p0183 N84-11192* #
NASA-TM-85100 ..... 24 p3934 N84-34905* #
NASA-TM-85101 ..... 01 p0165 N84-11082* #
NASA-TM-85103 ..... 24 p3987 N84-35238* #
NASA-TM-85105 ..... 01 p0165 N84-11084* #
NASA-TM-85106 ..... 07 p1023 N84-16633* #
NASA-TM-85108 ..... 10 p1454 N84-19493* #
NASA-TM-85109 ..... 03 p0407 N84-12663* #
NASA-TM-85110 ..... 02 p0295 N84-11936* #
NASA-TM-85111 ..... 03 p0341 N84-12216* #
NASA-TM-85112 ..... 03 p0463 N84-13046* #
NASA-TM-85113 ..... 06 p0917 N84-15958* #
NASA-TM-85114 ..... 02 p0253 N84-11659* #
NASA-TM-85115 ..... 06 p0881 N84-15731* #
NASA-TM-85116 ..... 03 p0463 N84-13045* #
NASA-TM-85117 ..... 03 p0407 N84-12662* #
NASA-TM-85118 ..... 04 p0619 N84-14082* #
NASA-TM-85119 ..... 03 p0462 N84-13044* #
NASA-TM-85120 ..... 08 p1246 N84-18149* #
NASA-TM-85121 ..... 07 p1092 N84-17102* #
NASA-TM-85123 ..... 06 p0940 N84-16107* #
NASA-TM-85124 ..... 06 p0914 N84-15941* #
NASA-TM-85125 ..... 09 p1344 N84-18781* #
NASA-TM-85385 ..... 18 p2953 N84-28714* #
NASA-TM-85386 ..... 18 p2899 N84-28391* #
NASA-TM-85388 ..... 18 p2944 N84-28668* #
NASA-TM-85430 ..... 01 p0006 N84-10037* #
NASA-TM-85434 ..... 03 p0463 N84-13049* #
NASA-TM-85435 ..... 03 p0461 N84-13039* #
NASA-TM-85436 ..... 07 p1094 N84-17112* #
NASA-TM-85438 ..... 09 p1399 N84-19136* #
NASA-TM-85439 ..... 08 p1218 N84-17947 #
NASA-TM-85443 ..... 12 p1860 N84-22116* #
NASA-TM-85444 ..... 12 p1847 N84-22043* #
NASA-TM-85445 ..... 13 p2026 N84-23137* #
NASA-TM-85447 ..... 16 p2582 N84-26582* #
NASA-TM-85454 ..... 01 p0166 N84-11093* #
NASA-TM-85455 ..... 02 p0183 N84-11187* #
NASA-TM-85456 ..... 02 p0305 N84-12002* #
NASA-TM-85457 ..... 02 p0305 N84-12003* #
NASA-TM-85459 ..... 05 p0697 N84-14573* #
NASA-TM-85468 ..... 02 p0236 N84-11548* #
NASA-TM-85469 ..... 02 p0238 N84-11562* #
NASA-TM-85474 ..... 01 p0002 N84-10011* #
NASA-TM-85475 ..... 03 p0461 N84-13033* #
NASA-TM-85476 ..... 03 p0395 N84-12576* #
NASA-TM-85478 ..... 16 p2460 N84-25769* #
NASA-TM-85481 ..... 04 p0552 N84-13636* #
NASA-TM-85486 ..... 06 p0935 N84-16076* #
NASA-TM-85487 ..... 06 p0792 N84-15164* #
NASA-TM-85492 ..... 06 p0927 N84-16021* #
NASA-TM-85493 ..... 06 p0927 N84-16020* #
NASA-TM-85497 ..... 07 p0963 N84-16242* #
NASA-TM-85498 ..... 07 p1084 N84-17047* #
NASA-TM-85499 ..... 07 p1020 N84-16620* #
NASA-TM-85502 ..... 19 p2978 N84-28881* #
NASA-TM-85509 ..... 20 p3314 N84-31047* #
NASA-TM-85510 ..... 06 p0933 N84-16060* #

NASA-TM-85515 ..... 06 p0865 N84-15634* #
NASA-TM-85516 ..... 06 p0865 N84-15635* #
NASA-TM-85517 ..... 06 p0865 N84-15636* #
NASA-TM-85518 ..... 06 p0865 N84-15637* #
NASA-TM-85521 ..... 08 p1239 N84-18102* #
NASA-TM-85522 ..... 08 p1102 N84-17168* #
NASA-TM-85527 ..... 16 p2481 N84-25909* #
NASA-TM-85528 ..... 17 p2640 N84-26887* #
NASA-TM-85536 ..... 22 p3581 N84-32681* #
NASA-TM-85538 ..... 22 p3684 N84-33364* #
NASA-TM-85550 ..... 17 p2599 N84-26661* #
NASA-TM-85554 ..... 18 p2943 N84-28661* #
NASA-TM-85555 ..... 09 p1418 N84-19277* #
NASA-TM-85556 ..... 10 p1435 N84-19382* #
NASA-TM-85557 ..... 10 p1592 N84-20434* #
NASA-TM-85558 ..... 10 p1522 N84-19962* #
NASA-TM-85559 ..... 10 p1596 N84-20462* #
NASA-TM-85562 ..... 10 p1521 N84-19961* #
NASA-TM-85568 ..... 13 p2071 N84-23420* #
NASA-TM-85569 ..... 13 p2071 N84-23421* #
NASA-TM-85570 ..... 13 p2071 N84-23418* #
NASA-TM-85571 ..... 13 p2070 N84-23417* #
NASA-TM-85572 ..... 13 p2070 N84-23416* #
NASA-TM-85573 ..... 13 p2070 N84-23415* #
NASA-TM-85574 ..... 13 p2071 N84-23419* #
NASA-TM-85576 ..... 12 p1917 N84-22491* #
NASA-TM-85594 ..... 13 p1967 N84-22771* #
NASA-TM-85596 ..... 22 p3676 N84-33305* #
NASA-TM-85597 ..... 21 p3426 N84-31731* #
NASA-TM-85598 ..... 21 p3428 N84-31749* #
NASA-TM-85599 ..... 21 p3428 N84-31750* #
NASA-TM-85600 ..... 21 p3428 N84-31751* #
NASA-TM-85601 ..... 21 p3429 N84-31752* #
NASA-TM-85602 ..... 21 p3429 N84-31753* #
NASA-TM-85604 ..... 13 p2028 N84-23150* #
NASA-TM-85605 ..... 16 p2543 N84-26323* #
NASA-TM-85606 ..... 13 p2026 N84-23135* #
NASA-TM-85607 ..... 13 p2026 N84-23136* #
NASA-TM-85608 ..... 13 p2025 N84-23129*
NASA-TM-85609 ..... 13 p2025 N84-23130*
NASA-TM-85612 ..... 14 p2204 N84-24230* #
NASA-TM-85613 ..... 14 p2221 N84-24326* #
NASA-TM-85617 ..... 17 p2777 N84-27632* #
NASA-TM-85620 ..... 21 p3429 N84-31754* #
NASA-TM-85621 ..... 21 p3429 N84-31755* #
NASA-TM-85622 ..... 21 p3429 N84-31756* #
NASA-TM-85623 ..... 21 p3429 N84-31757* #
NASA-TM-85627 ..... 13 p1937 N84-22597* #
NASA-TM-85646 ..... 08 p1194 N84-17784* #
NASA-TM-85655 ..... 04 p0480 N84-13161* #
NASA-TM-85662 ..... 06 p0781 N84-15117* #
NASA-TM-85663 ..... 02 p0173 N84-11141* #
NASA-TM-85667 ..... 07 p0959 N84-16215* #
NASA-TM-85668 ..... 04 p0482 N84-13172* #
NASA-TM-85670 ..... 02 p0271 N84-11774* #
NASA-TM-85679 ..... 01 p0094 N84-10611* #
NASA-TM-85680 ..... 01 p0139 N84-10911* #
NASA-TM-85681 ..... 02 p0222 N84-11457* #
NASA-TM-85682 ..... 01 p0094 N84-10609* #
NASA-TM-85683 ..... 01 p0094 N84-10610* #
NASA-TM-85684 ..... 07 p0997 N84-16462* #
NASA-TM-85685 ..... 04 p0585 N84-13866* #
NASA-TM-85686 ..... 06 p0795 N84-15179* #
NASA-TM-85687 ..... 01 p0083 N84-10538* #
NASA-TM-85689 ..... 07 p0992 N84-16427* #
NASA-TM-85690 ..... 08 p1105 N84-17186* #
NASA-TM-85691 ..... 04 p0477 N84-13138* #
NASA-TM-85693 ..... 06 p1231 N84-18044* #
NASA-TM-85695 ..... 02 p0222 N84-11458* #
NASA-TM-85696 ..... 02 p0174 N84-11145* #
NASA-TM-85697 ..... 04 p0548 N84-13608* #
NASA-TM-85699 ..... 07 p0953 N84-16178* #
NASA-TM-85700 ..... 02 p0188 N84-11220* #
NASA-TM-85701 ..... 04 p0477 N84-13139* #
NASA-TM-85702 ..... 02 p0309 N84-12026* #
NASA-TM-85703 ..... 02 p0188 N84-11219* #
NASA-TM-85704 ..... 07 p1074 N84-16977* #
NASA-TM-85706 ..... 03 p0388 N84-12531* #
NASA-TM-85707 ..... 02 p0184 N84-11193* #
NASA-TM-85710 ..... 19 p3080 N84-29543* #
NASA-TM-85711 ..... 03 p0370 N84-12412* #
NASA-TM-85712 ..... 05 p0625 N84-14110* #
NASA-TM-85713 ..... 08 p1097 N84-17134* #
NASA-TM-85714 ..... 03 p0388 N84-12529* #
NASA-TM-85715 ..... 04 p0505 N84-13309* #
NASA-TM-85716 ..... 09 p1386 N84-19052* #
NASA-TM-85717 ..... 11 p1604 N84-20505* #
NASA-TM-85718 ..... 04 p0489 N84-13211* #
NASA-TM-85719 ..... 02 p0270 N84-11767* #
NASA-TM-85720 ..... 02 p0277 N84-11815* #
NASA-TM-85722 ..... 07 p1069 N84-16947* #
NASA-TM-85723 ..... 04 p0479 N84-13150* #
NASA-TM-85725 ..... 07 p1016 N84-16590* #
NASA-TM-85726 ..... 18 p2917 N84-28495* #
NASA-TM-85727 ..... 06 p0908 N84-15898* #
NASA-TM-85728 ..... 06 p0798 N84-15199* #
NASA-TM-85730 ..... 06 p0786 N84-15145* #
NASA-TM-85732 ..... 10 p1420 N84-19287* #
NASA-TM-85733 ..... 04 p0543 N84-13576* #
NASA-TM-85734 ..... 06 p0798 N84-15200* #
NASA-TM-85735 ..... 09 p1399 N84-19137* #
NASA-TM-85737 ..... 08 p1105 N84-17185* #
NASA-TM-85738 ..... 06 p0798 N84-15201* #
NASA-TM-85739 ..... 23 p3690 N84-33385* #
NASA-TM-85740 ..... 08 p1097 N84-17135* #
NASA-TM-85741 ..... 07 p1016 N84-16591* #
NASA-TM-85742 ..... 07 p0978 N84-16339* #
NASA-TM-85743 ..... 11 p1668 N84-20880* #
NASA-TM-85744 ..... 09 p1386 N84-19051* #
NASA-TM-85745 ..... 07 p0974 N84-16312* #
NASA-TM-85746 ..... 14 p2110 N84-23650* #
NASA-TM-85747 ..... 07 p0978 N84-16338* #
NASA-TM-85748 ..... 09 p1329 N84-18678* #
NASA-TM-85749 ..... 09 p1249 N84-18154* #
NASA-TM-85750 ..... 11 p1601 N84-20487* #
NASA-TM-85751 ..... 11 p1601 N84-20485* #
NASA-TM-85752 ..... 08 p1211 N84-17900* #
NASA-TM-85753 ..... 10 p1464 N84-19565* #
NASA-TM-85754 ..... 08 p1161 N84-17560* #
NASA-TM-85755 ..... 09 p1275 N84-18325* #
NASA-TM-85756 ..... 11 p1627 N84-20650* #
NASA-TM-85759 ..... 09 p1257 N84-18206* #
NASA-TM-85760 ..... 12 p1769 N84-21539* #
NASA-TM-85761 ..... 14 p2157 N84-23924* #
NASA-TM-85762 ..... 10 p1439 N84-19395* #
NASA-TM-85763 ..... 12 p1789 N84-21667* #
NASA-TM-85764 ..... 10 p1576 N84-20325* #
NASA-TM-85765 ..... 22 p3530 N84-32348* #
NASA-TM-85766 ..... 14 p2157 N84-23922* #
NASA-TM-85768 ..... 18 p2809 N84-27835* #
NASA-TM-85769 ..... 17 p2616 N84-26741* #
NASA-TM-85770 ..... 12 p1765 N84-21513* #
NASA-TM-85771 ..... 12 p1777 N84-21598* #
NASA-TM-85772 ..... 12 p1779 N84-21608* #
NASA-TM-85773 ..... 17 p2615 N84-26739* #
NASA-TM-85774 ..... 11 p1623 N84-20626* #
NASA-TM-85776 ..... 14 p2110 N84-23654* #
NASA-TM-85777 ..... 13 p1930 N84-22553* #
NASA-TM-85778 ..... 12 p1867 N84-22169* #
NASA-TM-85779 ..... 19 p3039 N84-29278* #
NASA-TM-85780 ..... 16 p2458 N84-25758* #
NASA-TM-85781 ..... 15 p2370 N84-25219* #
NASA-TM-85782 ..... 17 p2600 N84-26665* #
NASA-TM-85783 ..... 16 p2454 N84-25733* #
NASA-TM-85784 ..... 16 p2546 N84-26340* #
NASA-TM-85787 ..... 13 p2000 N84-22979* #
NASA-TM-85789 ..... 18 p2852 N84-28112* #
NASA-TM-85790 ..... 15 p2403 N84-25425* #
NASA-TM-85791 ..... 17 p2679 N84-27066* #
NASA-TM-85792 ..... 16 p2495 N84-26007* #
NASA-TM-85793 ..... 14 p2157 N84-23925* #
NASA-TM-85794 ..... 16 p2553 N84-26382* #
NASA-TM-85795 ..... 17 p2600 N84-26667* #
NASA-TM-85796 ..... 18 p2785 N84-27677* #
NASA-TM-85797 ..... 23 p3760 N84-33834* #
NASA-TM-85798 ..... 19 p3035 N84-29249* #
NASA-TM-85799 ..... 18 p2807 N84-27820* #
NASA-TM-85802 ..... 22 p3603 N84-32827* #
NASA-TM-85803 ..... 14 p2148 N84-23865* #
NASA-TM-85805 ..... 19 p2993 N84-28964* #
NASA-TM-85806 ..... 16 p2583 N84-26564* #
NASA-TM-85807 ..... 16 p2439 N84-25645* #
NASA-TM-85808 ..... 15 p2405 N84-25433* #
NASA-TM-85809 ..... 16 p2484 N84-25927* #
NASA-TM-85810 ..... 18 p2920 N84-28514* #
NASA-TM-85811 ..... 17 p2749 N84-27448* #
NASA-TM-85812 ..... 16 p2486 N84-25947* #
NASA-TM-85813 ..... 19 p3003 N84-29035* #
NASA-TM-85814 ..... 21 p3346 N84-31226* #
NASA-TM-85815 ..... 19 p2963 N84-28779* #
NASA-TM-85816 ..... 20 p3152 N84-30014* #
NASA-TM-85817 ..... 19 p2958 N84-28747* #
NASA-TM-85818 ..... 17 p2600 N84-26668* #
NASA-TM-85819 ..... 18 p2809 N84-27833* #
NASA-TM-85821 ..... 17 p2733 N84-27376* #
NASA-TM-85822 ..... 17 p2733 N84-27374* #
NASA-TM-85823 ..... 19 p2962 N84-28775* #
NASA-TM-85824 ..... 18 p2836 N84-28000* #
NASA-TM-85825 ..... 20 p3201 N84-30331* #
NASA-TM-85826 ..... 18 p2809 N84-27834* #
NASA-TM-85828 ..... 19 p3034 N84-29245* #
NASA-TM-85829 ..... 18 p2785 N84-27679* #
NASA-TM-85830 ..... 18 p2919 N84-28513* #
NASA-TM-85831 ..... 20 p3128 N84-29864* #
NASA-TM-85832 ..... 18 p2832 N84-27977* #
NASA-TM-85833 ..... 20 p3133 N84-29897* #
NASA-TM-85834 ..... 23 p3711 N84-33523* #
NASA-TM-85835 ..... 24 p3923 N84-34828* #
NASA-TM-85838 ..... 01 p0128 N84-10834* #
NASA-TM-85839 ..... 05 p0732 N84-14805* #
NASA-TM-85843 ..... 22 p3535 N84-32381* #
NASA-TM-85844 ..... 02 p0174 N84-11143* #

NASA-TM-85846 ..... 10 p1432 N84-19362* #
NASA-TM-85847 ..... 04 p0621 N84-14096* #
NASA-TM-85848 ..... 01 p0012 N84-10079* #
NASA-TM-85849 ..... 01 p0005 N84-10034* #
NASA-TM-85850 ..... 01 p0003 N84-10020* #
NASA-TM-85851 ..... 03 p0371 N84-12414* #
NASA-TM-85852 ..... 04 p0483 N84-13177* #
NASA-TM-85853 ..... 02 p0193 N84-11256* #
NASA-TM-85854 ..... 02 p0193 N84-11257* #
NASA-TM-85855 ..... 08 p1099 N84-17144* #
NASA-TM-85856 ..... 12 p1907 N84-22423* #
NASA-TM-85857 ..... 04 p0588 N84-13886* #
NASA-TM-85859 ..... 17 p2618 N84-26753* #
NASA-TM-85861 ..... 03 p0429 N84-12809* #
NASA-TM-85863 ..... 04 p0483 N84-13176* #
NASA-TM-85865 ..... 08 p1247 N84-18152* #
NASA-TM-85866 ..... 07 p1049 N84-16795* #
NASA-TM-85867 ..... 19 p3067 N84-29456* #
NASA-TM-85868 ..... 19 p3070 N84-29478* #
NASA-TM-85869 ..... 13 p1931 N84-22558* #
NASA-TM-85870 ..... 14 p2111 N84-23655* #
NASA-TM-85871 ..... 11 p1656 N84-20807* #
NASA-TM-85872 ..... 07 p0947 N84-16143* #
NASA-TM-85873 ..... 22 p3537 N84-32393* #
NASA-TM-85874 ..... 11 p1757 N84-21471* #
NASA-TM-85875 ..... 12 p1921 N84-22515* #
NASA-TM-85876 ..... 10 p1451 N84-19475* #
NASA-TM-85877 ..... 22 p3543 N84-32431* #
NASA-TM-85878-VOL-1 ..... 14 p2221 N84-24327* #
NASA-TM-85878-VOL-2 ..... 15 p2403 N84-25426* #
NASA-TM-85879 ..... 14 p2100 N84-23606* #
NASA-TM-85880 ..... 08 p1098 N84-17141* #
NASA-TM-85881 ..... 08 p1097 N84-17137* #
NASA-TM-85883 ..... 10 p1545 N84-20125* #
NASA-TM-85884 ..... 10 p1553 N84-20176* #
NASA-TM-85885 ..... 07 p1007 N84-16526* #
NASA-TM-85886 ..... 07 p1007 N84-16527* #
NASA-TM-85887 ..... 07 p0946 N84-16139* #
NASA-TM-85888 ..... 07 p0966 N84-16257* #
NASA-TM-85889 ..... 13 p1989 N84-22913* #
NASA-TM-85890 ..... 14 p2110 N84-23653* #
NASA-TM-85892 ..... 09 p1255 N84-18190* #
NASA-TM-85893 ..... 14 p2100 N84-23605* #
NASA-TM-85894 ..... 15 p2255 N84-24540* #
NASA-TM-85895 ..... 10 p1427 N84-19334* #
NASA-TM-85896 ..... 15 p2424 N84-25562* #
NASA-TM-85898 ..... 12 p1893 N84-22328* #
NASA-TM-85899 ..... 12 p1815 N84-21833* #
NASA-TM-85900 ..... 20 p3130 N84-29879* #
NASA-TM-85901 ..... 20 p3131 N84-29884* #
NASA-TM-85902 ..... 15 p2262 N84-24588* #
NASA-TM-85903 ..... 20 p3131 N84-29885* #
NASA-TM-85907 ..... 18 p2802 N84-27785* #
NASA-TM-85908 ..... 21 p3328 N84-31112* #
NASA-TM-85914 ..... 23 p3695 N84-33415* #
NASA-TM-85927 ..... 13 p1935 N84-22585* #
NASA-TM-85929 ..... 10 p1545 N84-20128* #
NASA-TM-85931 ..... 22 p3684 N84-33365* #
NASA-TM-85932 ..... 13 p1926 N84-22535* #
NASA-TM-85933 ..... 14 p2103 N84-23617* #
NASA-TM-85934 ..... 21 p3324 N84-31090* #
NASA-TM-85935 ..... 12 p1826 N84-21904* #
NASA-TM-85936 ..... 15 p2253 N84-24528* #
NASA-TM-85937 ..... 13 p1926 N84-22536* #
NASA-TM-85938 ..... 13 p1926 N84-22532* #
NASA-TM-85939 ..... 13 p1935 N84-22584* #
NASA-TM-85940 ..... 16 p2439 N84-25646* #
NASA-TM-85941 ..... 14 p2113 N84-23665* #
NASA-TM-85942 ..... 21 p3327 N84-31105* #
NASA-TM-85943 ..... 21 p3398 N84-31554* #
NASA-TM-85944 ..... 12 p1815 N84-21831* #
NASA-TM-85945 ..... 19 p3080 N84-29544* #
NASA-TM-85946 ..... 14 p2104 N84-23622* #
NASA-TM-85947 ..... 19 p2968 N84-28809* #
NASA-TM-85949 ..... 15 p2336 N84-25020* #
NASA-TM-85950 ..... 18 p2792 N84-27718* #
NASA-TM-85951 ..... 15 p2259 N84-24566* #
NASA-TM-85953 ..... 16 p2575 N84-26525* #
NASA-TM-85954 ..... 16 p2575 N84-26524* #
NASA-TM-85955 ..... 16 p2574 N84-26521* #
NASA-TM-85956 ..... 16 p2574 N84-26522* #
NASA-TM-85957 ..... 19 p3082 N84-29556* #
NASA-TM-85958 ..... 17 p2600 N84-26664* #
NASA-TM-85959 ..... 22 p3644 N84-33106* #
NASA-TM-85960 ..... 21 p3524 N84-32328* #
NASA-TM-85961 ..... 17 p2774 N84-27615* #
NASA-TM-85962 ..... 17 p2774 N84-27616* #
NASA-TM-85963 ..... 16 p2575 N84-26526* #
NASA-TM-85964 ..... 21 p3492 N84-32131* #
NASA-TM-85965 ..... 18 p2785 N84-27680* #
NASA-TM-85966 ..... 22 p3593 N84-32752* #
NASA-TM-85967 ..... 16 p2574 N84-26523* #
NASA-TM-85969 ..... 20 p3127 N84-29857* #
NASA-TM-85970 ..... 22 p3530 N84-32350* #
NASA-TM-85971 ..... 21 p3344 N84-31215* #
NASA-TM-85973 ..... 18 p2836 N84-28001* #
NASA-TM-85976 ..... 21 p3324 N84-31093* #
NASA-TM-85977 ..... 20 p3183 N84-30225* #
NASA-TM-85978 ..... 17 p2600 N84-26666* #
NASA-TM-85980 ..... 22 p3531 N84-32358* #
NASA-TM-85981 ..... 19 p3099 N84-29686* #
NASA-TM-85982 ..... 20 p3290 N84-30887* #
NASA-TM-85983 ..... 21 p3324 N84-31094* #
NASA-TM-85984 ..... 19 p2958 N84-28746* #
NASA-TM-85985 ..... 20 p3183 N84-30226* #
NASA-TM-85986 ..... 21 p3324 N84-31092* #
NASA-TM-85987 ..... 23 p3838 N84-34348* #
NASA-TM-85989 ..... 19 p2958 N84-28745* #
NASA-TM-85990 ..... 23 p3692 N84-33401* #
NASA-TM-85992 ..... 19 p2963 N84-28780* #
NASA-TM-85994 ..... 21 p3324 N84-31089* #
NASA-TM-85995 ..... 20 p3227 N84-30510* #
NASA-TM-85997 ..... 24 p3900 N84-34695* #
NASA-TM-86001 ..... 22 p3544 N84-32438* #
NASA-TM-86002 ..... 22 p3535 N84-32379* #
NASA-TM-86004 ..... 23 p3840 N84-34359* #
NASA-TM-86008 ..... 24 p3950 N84-35009* #
NASA-TM-86009 ..... 24 p3856 N84-34445* #
NASA-TM-86012 ..... 23 p3689 N84-33383* #
NASA-TM-86019 ..... 22 p3593 N84-32753* #
NASA-TM-86023 ..... 05 p0757 N84-14965* #
NASA-TM-86024 ..... 08 p1115 N84-17250* #
NASA-TM-86025 ..... 07 p0951 N84-16168* #
NASA-TM-86026 ..... 05 p0632 N84-14157* #
NASA-TM-86028 ..... 07 p0958 N84-16213* #
NASA-TM-86029 ..... 22 p3535 N84-32384* #
NASA-TM-86031 ..... 19 p2965 N84-28792* #
NASA-TM-86033 ..... 09 p1330 N84-18685* #
NASA-TM-86034 ..... 11 p1615 N84-20566* #
NASA-TM-86036 ..... 11 p1607 N84-20521* #
NASA-TM-86039 ..... 11 p1606 N84-20515* #
NASA-TM-86040 ..... 15 p2262 N84-24587* #
NASA-TM-86041 ..... 20 p3128 N84-29863* #
NASA-TM-86044 ..... 16 p2501 N84-26054* #
NASA-TM-86045 ..... 08 p1242 N84-18123* #
NASA-TM-86047 ..... 08 p1247 N84-18150* #
NASA-TM-86049 ..... 08 p1244 N84-18132* #
NASA-TM-86050 ..... 09 p1406 N84-19186* #
NASA-TM-86051 ..... 08 p1244 N84-18131* #
NASA-TM-86052 ..... 07 p1093 N84-17109* #
NASA-TM-86053 ..... 12 p1850 N84-22049* #
NASA-TM-86055 ..... 08 p1247 N84-18151* #
NASA-TM-86056 ..... 14 p2168 N84-23989* #
NASA-TM-86057 ..... 09 p1372 N84-18961* #
NASA-TM-86058 ..... 21 p3442 N84-31838* #
NASA-TM-86060 ..... 09 p1407 N84-19195* #
NASA-TM-86062 ..... 09 p1367 N84-18921* #
NASA-TM-86063 ..... 13 p2010 N84-23041* #
NASA-TM-86064-VOL-1 ..... 14 p2179 N84-24048* #
NASA-TM-86064-VOL-2 ..... 14 p2179 N84-24049* #
NASA-TM-86064-VOL-3 ..... 14 p2179 N84-24050* #
NASA-TM-86065 ..... 12 p1860 N84-22117* #
NASA-TM-86066 ..... 10 p1520 N84-19956* #
NASA-TM-86067 ..... 12 p1922 N84-22518* #
NASA-TM-86068 ..... 10 p1520 N84-19955* #
NASA-TM-86069 ..... 09 p1416 N84-19266* #
NASA-TM-86070 ..... 11 p1760 N84-21487* #
NASA-TM-86071 ..... 12 p1922 N84-22519* #
NASA-TM-86072 ..... 11 p1681 N84-20971* #
NASA-TM-86074 ..... 17 p2781 N84-27659* #
NASA-TM-86076 ..... 12 p1923 N84-22525* #
NASA-TM-86077 ..... 20 p3319 N84-31069* #
NASA-TM-86078 ..... 12 p1830 N84-21929* #
NASA-TM-86080 ..... 16 p2528 N84-26233* #
NASA-TM-86083 ..... 17 p2616 N84-26743* #
NASA-TM-86084 ..... 21 p3463 N84-31956* #
NASA-TM-86085 ..... 24 p3923 N84-34827* #
NASA-TM-86087 ..... 14 p2113 N84-23666* #
NASA-TM-86088 ..... 18 p2952 N84-28712* #
NASA-TM-86089 ..... 18 p2923 N84-28535* #
NASA-TM-86090 ..... 22 p3581 N84-32679* #
NASA-TM-86091 ..... 18 p2879 N84-28277* #
NASA-TM-86092 ..... 14 p2148 N84-23866* #
NASA-TM-86094 ..... 14 p2250 N84-24512* #
NASA-TM-86095 ..... 14 p2169 N84-23991* #
NASA-TM-86096 ..... 21 p3430 N84-31761* #
NASA-TM-86097 ..... 16 p2548 N84-26353* #
NASA-TM-86098 ..... 15 p2423 N84-25559* #
NASA-TM-86099 ..... 20 p3320 N84-31079* #
NASA-TM-86100 ..... 15 p2425 N84-25565* #
NASA-TM-86101 ..... 15 p2367 N84-25203* #
NASA-TM-86102 ..... 14 p2251 N84-24519* #
NASA-TM-86103 ..... 15 p2405 N84-25434* #
NASA-TM-86104 ..... 18 p2883 N84-28295* #
NASA-TM-86105 ..... 15 p2319 N84-24922* #
NASA-TM-86106 ..... 15 p2371 N84-25221* #
NASA-TM-86107 ..... 15 p2357 N84-25142* #
NASA-TM-86109 ..... 16 p2582 N84-26560* #
NASA-TM-86110 ..... 16 p2582 N84-26561* #
NASA-TM-86112 ..... 15 p2428 N84-25583* #
NASA-TM-86113 ..... 24 p3968 N84-35127* #
NASA-TM-86114 ..... 17 p2726 N84-27353* #

NASA-TM-86115 ..... 24 p3982 N84-35234* #
NASA-TM-86116 ..... 21 p3524 N84-32327* #
NASA-TM-86117 ..... 21 p3526 N84-32336* #
NASA-TM-86118 ..... 17 p2776 N84-27623* #
NASA-TM-86119 ..... 16 p2521 N84-26183* #
NASA-TM-86120 ..... 16 p2581 N84-26554* #
NASA-TM-86121 ..... 16 p2558 N84-26409* #
NASA-TM-86122 ..... 16 p2579 N84-26545* #
NASA-TM-86123 ..... 20 p3220 N84-30455* #
NASA-TM-86124 ..... 20 p3301 N84-30962* #
NASA-TM-86125 ..... 24 p3916 N84-34795* #
NASA-TM-86126 ..... 21 p3526 N84-32337* #
NASA-TM-86127 ..... 22 p3572 N84-32621* #
NASA-TM-86128 ..... 17 p2781 N84-27654* #
NASA-TM-86129-VOL-1-PT-1 ..... 20 p3219 N84-30450* #
NASA-TM-86129-VOL-1-PT-2 ..... 20 p3217 N84-30433* #
NASA-TM-86130 ..... 21 p3426 N84-31734* #
NASA-TM-86131 ..... 21 p3525 N84-32333* #
NASA-TM-86132 ..... 22 p3680 N84-33332* #
NASA-TM-86133 ..... 21 p3426 N84-31733* #
NASA-TM-86134 ..... 22 p3614 N84-32895* #
NASA-TM-86136 ..... 21 p3461 N84-31949* #
NASA-TM-86137 ..... 23 p3845 N84-34391* #
NASA-TM-86139 ..... 22 p3678 N84-33317* #
NASA-TM-86140 ..... 22 p3680 N84-33326* #
NASA-TM-86141 ..... 21 p3430 N84-31760* #
NASA-TM-86142 ..... 22 p3679 N84-33325* #
NASA-TM-86144 ..... 24 p3992 N84-35262* #
NASA-TM-86146 ..... 24 p3987 N84-35240* #
NASA-TM-86147 ..... 22 p3679 N84-33320* #
NASA-TM-86148 ..... 24 p3919 N84-34808* #
NASA-TM-86151 ..... 24 p3945 N84-34975* #
NASA-TM-86152 ..... 24 p3968 N84-35128* #
NASA-TM-86154 ..... 24 p3965 N84-35107* #
NASA-TM-86160 ..... 24 p3919 N84-34809* #
NASA-TM-86244 ..... 04 p0488 N84-13206* #
NASA-TM-86246 ..... 13 p2073 N84-23431* #
NASA-TM-86247 ..... 15 p2426 N84-25567* #
NASA-TM-86248 ..... 14 p2183 N84-24078* #
NASA-TM-86249 ..... 19 p3121 N84-29840* #
NASA-TM-86250 ..... 16 p2566 N84-26468* #
NASA-TM-86252 ..... 18 p2954 N84-28725* #
NASA-TM-86254 ..... 19 p2981 N84-28893* #
NASA-TM-86255 ..... 19 p3080 N84-29545* #
NASA-TM-86256 ..... 20 p3145 N84-29968* #
NASA-TM-86257 ..... 20 p3131 N84-29883* #
NASA-TM-86258 ..... 20 p3125 N84-29847* #
NASA-TM-86259 ..... 24 p3854 N84-34439* #
NASA-TM-86260 ..... 22 p3542 N84-32422* #
NASA-TM-86261 ..... 19 p3093 N84-29640* #
NASA-TM-86264 ..... 21 p3326 N84-31104* #
NASA-TM-86265 ..... 23 p3700 N84-33453* #
NASA-TM-86266 ..... 20 p3201 N84-30330* #
NASA-TM-86269 ..... 21 p3419 N84-31684* #
NASA-TM-86271 ..... 21 p3419 N84-31686* #
NASA-TM-86273 ..... 23 p3689 N84-33382* #
NASA-TM-86275 ..... 20 p3129 N84-29871* #
NASA-TM-86278 ..... 22 p3530 N84-32353* #
NASA-TM-86279 ..... 22 p3532 N84-32365* #
NASA-TM-86280 ..... 21 p3399 N84-31560* #
NASA-TM-86282 ..... 22 p3611 N84-32877* #
NASA-TM-86283 ..... 22 p3544 N84-32437* #
NASA-TM-86284 ..... 23 p3810 N84-34161* #
NASA-TM-86285 ..... 20 p3240 N84-30566* #
NASA-TM-86287 ..... 22 p3544 N84-32435* #
NASA-TM-86289 ..... 23 p3817 N84-34199* #
NASA-TM-86291 ..... 22 p3544 N84-32439* #
NASA-TM-86293 ..... 22 p3554 N84-32505* #
NASA-TM-86294 ..... 22 p3554 N84-32506* #
NASA-TM-86295 ..... 22 p3555 N84-32507* #
NASA-TM-86297 ..... 22 p3544 N84-32436* #
NASA-TM-86300 ..... 23 p3730 N84-33641* #
NASA-TM-86301 ..... 23 p3711 N84-33524* #
NASA-TM-86302 ..... 24 p3866 N84-34501* #
NASA-TM-86307 ..... 23 p3741 N84-33714* #
NASA-TM-86311 ..... 24 p3879 N84-34577* #
NASA-TM-86451 ..... 22 p3598 N84-32788* #
NASA-TM-86452 ..... 21 p3369 N84-31378* #
NASA-TM-86453 ..... 21 p3390 N84-31511* #
NASA-TM-86454 ..... 21 p3412 N84-31638* #
NASA-TM-86455 ..... 21 p3405 N84-31597* #
NASA-TM-86456 ..... 21 p3412 N84-31639* #
NASA-TM-86457 ..... 22 p3640 N84-33076* #
NASA-TM-86458 ..... 23 p3844 N84-34388* #
NASA-TM-86459 ..... 22 p3600 N84-32805* #
NASA-TM-86461 ..... 23 p3701 N84-33461* #
NASA-TM-86462 ..... 22 p3604 N84-32829* #
NASA-TM-86463 ..... 24 p3867 N84-34506* #
NASA-TM-86464 ..... 23 p3717 N84-33563* #
NASA-TM-86465 ..... 23 p3814 N84-34186* #
NASA-TM-86466 ..... 23 p3700 N84-33455* #
NASA-TM-86467 ..... 24 p3945 N84-34976* #
NASA-TM-86469 ..... 24 p3992 N84-35265* #
NASA-TM-86472 ..... 24 p3983 N84-35235* #
NASA-TM-86651 ..... 21 p3518 N84-32283* #
NASA-TM-86652-BK-1 ..... 23 p3698 N84-33438* #
NASA-TM-86652-BK-1-7 ..... 23 p3698 N84-33437* #
NASA-TM-86652-BK-2 ..... 23 p3698 N84-33439* #
NASA-TM-86652-BK-3 ..... 23 p3698 N84-33440* #
NASA-TM-86652-BK-4/5 ..... 23 p3699 N84-33441* #
NASA-TM-86652-BK-6 ..... 23 p3699 N84-33442* #
NASA-TM-86652-BK-7 ..... 23 p3699 N84-33443* #
NASA-TM-86654 ..... 20 p3256 N84-30664* #
NASA-TM-86857 ..... 22 p3628 N84-32990* #
NASA-TM-86861 ..... 20 p3234 N84-30528* #
NASA-TM-86862 ..... 22 p3559 N84-32536* #
NASA-TM-86873 ..... 23 p3836 N84-34330* #
NASA-TM-87360 ..... 23 p3811 N84-34165* #
NASA-TM-87362 ..... 23 p3834 N84-34321* #
NASA-TM-87363 ..... 23 p3844 N84-34387* #
NASA-TM-87365 ..... 24 p3944 N84-34973* #
NASA-TM-87369 ..... 24 p3992 N84-35264* #

NASA-TP-1024 ..... 01 p0077 N84-10504* #
NASA-TP-1086 ..... 02 p0189 N84-11230* #
NASA-TP-1910 ..... 18 p2786 N84-27682* #
NASA-TP-1965 ..... 18 p2788 N84-27694* #
NASA-TP-2000 ..... 19 p2957 N84-28743* #
NASA-TP-2004 ..... 01 p0139 N84-10913* #
NASA-TP-2052 ..... 19 p2966 N84-28795* #
NASA-TP-2119 ..... 01 p0004 N84-10025* #
NASA-TP-2122 ..... 04 p0484 N84-13182* #
NASA-TP-2128 ..... 04 p0487 N84-13198* #
NASA-TP-2145 ..... 13 p1988 N84-22907* #
NASA-TP-2147 ..... 01 p0104 N84-10675* #
NASA-TP-2165 ..... 17 p2751 N84-27461* #
NASA-TP-2183 ..... 03 p0337 N84-12190* #
NASA-TP-2193 ..... 04 p0588 N84-13885* #
NASA-TP-2197 ..... 04 p0594 N84-13923* #
NASA-TP-2205 ..... 04 p0479 N84-13152* #
NASA-TP-2212 ..... 03 p0332 N84-12164* #
NASA-TP-2214 ..... 13 p1988 N84-22906* #
NASA-TP-2215 ..... 07 p1015 N84-16585* #
NASA-TP-2217 ..... 12 p1898 N84-22363* #
NASA-TP-2218 ..... 02 p0223 N84-11460* #
NASA-TP-2220 ..... 08 p1166 N84-17590* #
NASA-TP-2221 ..... 07 p1057 N84-16843* #
NASA-TP-2225 ..... 10 p1490 N84-19741* #
NASA-TP-2226 ..... 04 p0548 N84-13614* #
NASA-TP-2228 ..... 04 p0481 N84-13163* #
NASA-TP-2229 ..... 08 p1157 N84-17534* #
NASA-TP-2230 ..... 08 p1105 N84-17184* #
NASA-TP-2231 ..... 02 p0180 N84-11171* #
NASA-TP-2232 ..... 12 p1814 N84-21828* #
NASA-TP-2234 ..... 04 p0481 N84-13165* #
NASA-TP-2235 ..... 04 p0481 N84-13164* #
NASA-TP-2236 ..... 04 p0497 N84-13263* #
NASA-TP-2237 ..... 09 p1386 N84-19049* #
NASA-TP-2238 ..... 07 p0997 N84-16461* #
NASA-TP-2239 ..... 04 p0491 N84-13224* #
NASA-TP-2240 ..... 07 p0964 N84-16247* #
NASA-TP-2241 ..... 08 p1163 N84-17575* #
NASA-TP-2242 ..... 04 p0603 N84-13978* #
NASA-TP-2243 ..... 11 p1667 N84-20878* #
NASA-TP-2244 ..... 12 p1869 N84-22178* #
NASA-TP-2245 ..... 04 p0532 N84-13500* #
NASA-TP-2246 ..... 09 p1250 N84-18162* #
NASA-TP-2247 ..... 09 p1255 N84-18189* #
NASA-TP-2248 ..... 06 p0829 N84-15394* #
NASA-TP-2249 ..... 09 p1250 N84-18163* #
NASA-TP-2250 ..... 09 p1251 N84-18164* #
NASA-TP-2251 ..... 04 p0480 N84-13162* #
NASA-TP-2253 ..... 09 p1251 N84-18165* #
NASA-TP-2254 ..... 11 p1729 N84-21277* #
NASA-TP-2255 ..... 10 p1439 N84-19393* #
NASA-TP-2256 ..... 17 p2599 N84-26660* #
NASA-TP-2257 ..... 04 p0543 N84-13577* #
NASA-TP-2258 ..... 05 p0702 N84-14606* #
NASA-TP-2259 ..... 06 p0907 N84-15894* #
NASA-TP-2260 ..... 09 p1342 N84-18764* #
NASA-TP-2261 ..... 10 p1549 N84-20155* #
NASA-TP-2262 ..... 08 p1103 N84-17175* #
NASA-TP-2263 ..... 06 p0834 N84-15427* #
NASA-TP-2264 ..... 06 p0906 N84-15880* #
NASA-TP-2265 ..... 08 p1096 N84-17127* #
NASA-TP-2266 ..... 07 p0953 N84-16181* #
NASA-TP-2267 ..... 07 p0977 N84-16334* #
NASA-TP-2268 ..... 08 p1156 N84-17525* #
NASA-TP-2269 ..... 11 p1601 N84-20486* #
NASA-TP-2270 ..... 08 p1097 N84-17132* #
NASA-TP-2271 ..... 11 p1760 N84-21485* #
NASA-TP-2272 ..... 09 p1329 N84-18675* #
NASA-TP-2273 ..... 09 p1250 N84-18159* #
NASA-TP-2274 ..... 09 p1324 N84-18653* #
NASA-TP-2275 ..... 09 p1325 N84-18654* #
NASA-TP-2276 ..... 11 p1642 N84-20735* #
NASA-TP-2277 ..... 11 p1646 N84-20759* #
NASA-TP-2278 ..... 09 p1281 N84-18370* #
NASA-TP-2279 ..... 09 p1286 N84-18399* #
NASA-TP-2280 ..... 08 p1130 N84-17350* #
NASA-TP-2281 ..... 08 p1102 N84-17165* #
NASA-TP-2282 ..... 09 p1250 N84-18161* #

NASA-TP-2283 ..... 14 p2110 N84-23652* #
NASA-TP-2285 ..... 09 p1286 N84-18400* #
NASA-TP-2286 ..... 12 p1801 N84-21740* #
NASA-TP-2287 ..... 11 p1645 N84-20758* #
NASA-TP-2288 ..... 10 p1595 N84-20457* #
NASA-TP-2289 ..... 12 p1796 N84-21716* #
NASA-TP-2290 ..... 12 p1797 N84-21721* #
NASA-TP-2291 ..... 10 p1427 N84-19333* #
NASA-TP-2292 ..... 11 p1600 N84-20480* #
NASA-TP-2293 ..... 14 p2115 N84-23675* #
NASA-TP-2294 ..... 12 p1771 N84-21549* #
NASA-TP-2295 ..... 10 p1464 N84-19584* #
NASA-TP-2296 ..... 11 p1614 N84-20562* #
NASA-TP-2297 ..... 11 p1602 N84-20493* #
NASA-TP-2298 ..... 12 p1826 N84-21901* #
NASA-TP-2299 ..... 12 p1866 N84-22162* #
NASA-TP-2300 ..... 12 p1770 N84-21542* #
NASA-TP-2301 ..... 11 p1626 N84-20643* #
NASA-TP-2302 ..... 17 p2617 N84-26749* #
NASA-TP-2303 ..... 21 p3446 N84-31865* #
NASA-TP-2304 ..... 15 p2260 N84-24578* #
NASA-TP-2305 ..... 12 p1903 N84-22396* #
NASA-TP-2306 ..... 15 p2254 N84-24538* #
NASA-TP-2308 ..... 15 p2403 N84-25422* #
NASA-TP-2309 ..... 22 p3536 N84-32388* #
NASA-TP-2310 ..... 17 p2762 N84-27543* #
NASA-TP-2311 ..... 16 p2451 N84-25717* #
NASA-TP-2312 ..... 14 p2127 N84-23750* #
NASA-TP-2313 ..... 14 p2178 N84-24044* #
NASA-TP-2314 ..... 14 p2115 N84-23677* #
NASA-TP-2315 ..... 14 p2115 N84-23676* #
NASA-TP-2316 ..... 14 p2129 N84-23764* #
NASA-TP-2317 ..... 14 p2131 N84-23774* #
NASA-TP-2318 ..... 16 p2486 N84-25944* #
NASA-TP-2319 ..... 19 p2992 N84-28958* #
NASA-TP-2320 ..... 22 p3546 N84-32446* #
NASA-TP-2321 ..... 14 p2150 N84-23878* #
NASA-TP-2322 ..... 18 p2923 N84-28538* #
NASA-TP-2323 ..... 14 p2144 N84-23852* #
NASA-TP-2324 ..... 16 p2501 N84-26053* #
NASA-TP-2325 ..... 14 p2251 N84-24520* #
NASA-TP-2326 ..... 22 p3537 N84-32394* #
NASA-TP-2327 ..... 21 p3328 N84-31111* #
NASA-TP-2328 ..... 18 p2785 N84-27675* #
NASA-TP-2330 ..... 18 p2785 N84-27676* #
NASA-TP-2331 ..... 15 p2409 N84-25458* #
NASA-TP-2332 ..... 14 p2189 N84-24114* #
NASA-TP-2333 ..... 22 p3531 N84-32354* #
NASA-TP-2335 ..... 23 p3688 N84-33377* #
NASA-TP-2337 ..... 16 p2556 N84-26398* #
NASA-TP-2338 ..... 17 p2622 N84-26783* #
NASA-TP-2339 ..... 21 p3365 N84-31349* #
NASA-TP-2340 ..... 19 p2967 N84-28801* #
NASA-TP-2341 ..... 18 p2923 N84-28539* #
NASA-TP-2342 ..... 19 p2997 N84-28989* #
NASA-TP-2343 ..... 24 p3912 N84-34773* #
NASA-TP-2344 ..... 19 p3070 N84-29479* #
NASA-TP-2346 ..... 23 p3816 N84-34198* #
NASA-TP-2347 ..... 21 p3408 N84-31617* #
NASA-TP-2348 ..... 23 p3689 N84-33379* #
NASA-TP-2349 ..... 21 p3399 N84-31561* #
NASA-TP-2351 ..... 19 p2958 N84-28750* #
NASA-TP-2353 ..... 22 p3534 N84-32378* #
NASA-TP-2354 ..... 19 p2993 N84-28965* #
NASA-TP-2355 ..... 19 p3031 N84-29226* #
NASA-TP-2356 ..... 21 p3491 N84-32124* #
NASA-TP-2360 ..... 21 p3369 N84-31379* #
NASA-TP-2361 ..... 23 p3700 N84-33452* #
NASA-TP-2362 ..... 23 p3723 N84-33590* #
NASA-TP-2366 ..... 23 p3817 N84-34204* #
NASA-TP-2367 ..... 22 p3603 N84-32824* #
NASA-TP-2368 ..... 22 p3603 N84-32825* #
NASA-TP-2377 ..... 23 p3711 N84-33521* #
NASA-TP-3775 ..... 14 p2104 N84-23623* #

NASA/DOE/20320-56 ..... 05 p0699 N84-14586* #
NASA/DOE/51040-49 ..... 05 p0761 N84-14989* #

NATC-TM-83-1-SY ..... 04 p0484 N84-13184 #

NATICK/TR-83/041 ..... 08 p1182 N84-17698 #
NATICK/TR-83/045 ..... 10 p1470 N84-19601 #
NATICK/TR-84/001 ..... 13 p2067 N84-23403 #
NATICK/TR-84/023 ..... 19 p2999 N84-29005 #

NATL-SEC-AFFAIRS-MONO-83-6 ..... 08 p1107 N84-17197 #

NAUFP-202-2 ..... 10 p1516 N84-19927* #

NAVAIR-50-1C-538 ..... 20 p3250 N84-30627 #

NAVFAC-DM-1.4 ..... 17 p2629 N84-26820 #

NAVHLTHRSCHC-83-4 ..... 01 p0113 N84-10736 #
NAVHLTHRSCHC-83-13 ..... 08 p1200 N84-17825 #
NAVHLTHRSCHC-83-17 ..... 07 p1047 N84-16792 #
NAVHLTHRSCHC-83-21 ..... 05 p0715 N84-14688 #
NAVHLTHRSCHC-83-32 ..... 13 p2020 N84-23100 #
NAVHLTHRSCHC-84-6 ..... 18 p2900 N84-28396 #

NAVTRAEQUIPC-IH-158 ..... 19 p3071 N84-29481 #
NAVTRAEQUIPC-IH-347 ..... 10 p1549 N84-20156 #

NAVTRAEQUIPC-TN-66 ..... 10 p1433 N84-19367 #

NAVTRAEQUIPC-77-C-0110-1 ..... 06 p0894 N84-15808 #
NAVTRAEQUIPC-78-C-0113-4 ..... 10 p1550 N84-20160 #
NAVTRAEQUIPC-79-C-0104-1 ..... 10 p1552 N84-20168 #
NAVTRAEQUIPC-80-C-0063-2 ..... 10 p1552 N84-20169 #
NAVTRAEQUIPC-80-D-0014-0019-1 ..... 09 p1258 N84-18209 #
NAVTRAEQUIPC-81-C-0105-2 ..... 12 p1866 N84-22175 #
NAVTRAEQUIPC-81-C-0105-4 ..... 18 p2798 N84-27753 #
NAVTRAEQUIPC-81-C-0105-8 ..... 10 p1430 N84-19351 #
NAVTRAEQUIPC-82-C-0151-1 ..... 13 p2022 N84-23109 #
NAVTRAEQUIPC-82-M-0767-1 ..... 13 p1935 N84-22587 #
NAVTRAEQUIPC-82-M-1131-1 ..... 24 p3857 N84-34452 #

NAVWESA-1-83-VOL-1 ..... 08 p1100 N84-17154 #
NAVWESA-1-83-VOL-2 ..... 08 p1100 N84-17155 #

NAWC/SLWM-83-2 ..... 11 p1688 N84-21012 #

NBDL-83R001 ..... 01 p0071 N84-10461 #
NBDL-83R002 ..... 01 p0113 N84-10734 #
NBDL-83R004 ..... 01 p0116 N84-10754 #
NBDL-83R005 ..... 15 p2383 N84-25294 #
NBDL-83R008 ..... 12 p1865 N84-22155 #
NBDL-83R009 ..... 08 p1162 N84-17562 #
NBDL-83R013 ..... 19 p3078 N84-29528 #
NBDL-84R001 ..... 24 p3947 N84-34997 #
NBDL-84R002 ..... 22 p3599 N84-32793 #

NBS-BSS-151 ..... 01 p0058 N84-10376 #
NBS-BSS-155 ..... 01 p0156 N84-11029 #
NBS-BSS-155-APP-J ..... 01 p0156 N84-11030 #
NBS-BSS-160 ..... 20 p3171 N84-30139 #

NBS-FIPS-PUB-60-2 ..... 22 p3637 N84-33057 #

NBS-GCR-83-431 ..... 08 p1101 N84-17162 #
NBS-GCR-83-438 ..... 03 p0460 N84-13026 #
NBS-GCR-83-441 ..... 05 p0664 N84-14362 #
NBS-GCR-83-445-VOL-1 ..... 10 p1489 N84-19595 #
NBS-GCR-83-447 ..... 20 p3172 N84-30140 #
NBS-GCR-84-459 ..... 17 p2723 N84-27333 #

NBS-MONO-25-SECT-20 ..... 14 p2244 N84-24475 #

NBS-SP-260-85 ..... 08 p1126 N84-17324 #
NBS-SP-260-86 ..... 12 p1799 N84-21735 #
NBS-SP-260-87 ..... 14 p2149 N84-23876 #
NBS-SP-400-75 ..... 05 p0677 N84-14454 #
NBS-SP-500-101 ..... 02 p0276 N84-11809 #
NBS-SP-500-102 ..... 02 p0271 N84-11772 #
NBS-SP-500-103 ..... 06 p0896 N84-15820 #
NBS-SP-500-104 ..... 08 p1210 N84-17892 #
NBS-SP-500-105 ..... 09 p1370 N84-18945 #
NBS-SP-500-106 ..... 09 p1371 N84-18952 #
NBS-SP-500-107 ..... 14 p2204 N84-24227 #
NBS-SP-500-108 ..... 14 p2206 N84-24243 #
NBS-SP-500-110 ..... 17 p2750 N84-27456 #
NBS-SP-500-112 ..... 15 p2389 N84-25331 #
NBS-SP-500-113 ..... 17 p2756 N84-27496 #
NBS-SP-500-114 ..... 20 p3268 N84-30740 #
NBS-SP-500-115 ..... 20 p3268 N84-30739 #
NBS-SP-637-VOL-2 ..... 14 p2226 N84-24357 #
NBS-SP-638 ..... 09 p1324 N84-18649 #
NBS-SP-653 ..... 02 p0192 N84-11249 #
NBS-SP-655 ..... 08 p1127 N84-17325 #
NBS-SP-663 ..... 08 p1141 N84-17425 #
NBS-SP-665 ..... 15 p2318 N84-24911 #
NBS-SP-669 ..... 16 p2498 N84-26025 #
NBS-SP-671 ..... 15 p2408 N84-25457 #

NBS-TN-1056 ..... 09 p1319 N84-18616 #
NBS-TN-1060 ..... 05 p0748 N84-14913 #
NBS-TN-1063 ..... 11 p1648 N84-20775 #
NBS-TN-1065 ..... 09 p1390 N84-19082 #
NBS-TN-1067 ..... 17 p2672 N84-27030 #
NBS-TN-1068-1 ..... 17 p2755 N84-27492 #
NBS-TN-1068-2 ..... 15 p2394 N84-25365 #
NBS-TN-1176 ..... 01 p0125 N84-10813 #
NBS-TN-1180 ..... 04 p0574 N84-13782 #
NBS-TN-1181 ..... 10 p1496 N84-19781 #
NBS-TN-1182 ..... 08 p1163 N84-17570 #
NBS-TN-1183 ..... 17 p2672 N84-27029 #

NBS/GCR-83/43 ..... 08 p1127 N84-17326 #
NBS/GCR-83/436 ..... 08 p1127 N84-17327 #

NBS/HB-44-1984 ..... 08 p1163 N84-17572 #

NBS/MONO-172 ..... 22 p3675 N84-33297 #

NBS/MPD-243 ..... 18 p2820 N84-27907 #

NBSIR-81-2253 ..... 04 p0496 N84-13256 #
NBSIR-82-1670 ..... 02 p0198 N84-11290 #
NBSIR-82-2543-1 ..... 05 p0746 N84-14898 #
NBSIR-82-2581 ..... 06 p0883 N84-15742 #
NBSIR-82-2614 ..... 05 p0682 N84-14484 #
NBSIR-83-1684 ..... 01 p0051 N84-10330 #
NBSIR-83-1689 ..... 02 p0212 N84-11384 #
NBSIR-83-1690 ..... 05 p0657 N84-14320 #
NBSIR-83-1691 ..... 21 p3499 N84-32179 #
NBSIR-83-1694 ..... 08 p1127 N84-17329 #
NBSIR-83-1696 ..... 11 p1638 N84-20710 #
NBSIR-83-1697 ..... 17 p2672 N84-27031 #
NBSIR-83-2686 ..... 01 p0083 N84-10537 #
NBSIR-83-2686-FDA ..... 02 p0202 N84-11317 #
NBSIR-83-2703 ..... 02 p0276 N84-11804 #
NBSIR-83-2704 ..... 08 p1214 N84-17922 #
NBSIR-83-2708 ..... 01 p0085 N84-10555 #
NBSIR-83-2710 ..... 01 p0086 N84-10558 #
NBSIR-83-2719 ..... 11 p1705 N84-21115 #
NBSIR-83-2719-2 ..... 03 p0369 N84-12405 #
NBSIR-83-2723 ..... 03 p0359 N84-12332 #
NBSIR-83-2727 ..... 04 p0516 N84-13390 #
NBSIR-83-2730 ..... 02 p0192 N84-11247 #
NBSIR-83-2734 ..... 19 p3053 N84-29373 #
NBSIR-83-2740 ..... 04 p0584 N84-13856 #
NBSIR-83-2741 ..... 03 p0386 N84-12517 #
NBSIR-83-2749 ..... 04 p0517 N84-13395 #
NBSIR-83-2754 ..... 08 p1142 N84-17427 #
NBSIR-83-2755 ..... 08 p1153 N84-17509 #
NBSIR-83-2757 ..... 04 p0555 N84-13657 #
NBSIR-83-2757 ..... 04 p0584 N84-13857 #
NBSIR-83-2765 ..... 09 p1297 N84-18481 #
NBSIR-83-2772 ..... 08 p1136 N84-17384* #
NBSIR-83-2776 ..... 08 p1173 N84-17638 #
NBSIR-83-2781 ..... 11 p1638 N84-20709 #
NBSIR-83-2782 ..... 17 p2723 N84-27332 #
NBSIR-83-2786 ..... 14 p2223 N84-24342 #
NBSIR-83-2790 ..... 08 p1132 N84-17363 #
NBSIR-83-2792 ..... 14 p2149 N84-23877 #
NBSIR-83-2796 ..... 11 p1705 N84-21116 #
NBSIR-83-2801 ..... 20 p3151 N84-30011 #
NBSIR-83-2802-PT-2 ..... 20 p3165 N84-30100 #
NBSIR-83-2807 ..... 16 p2478 N84-25886 #
NBSIR-84-2808-FDA ..... 16 p2473 N84-25851 #
NBSIR-84-2814 ..... 16 p2552 N84-26375 #
NBSIR-84-2816 ..... 21 p3376 N84-31426 #
NBSIR-84-2817 ..... 20 p3127 N84-29859 #
NBSIR-84-2821-PT-1 ..... 18 p2820 N84-27904 #
NBSIR-84-2824 ..... 16 p2545 N84-26337 #
NBSIR-84-2825-DOE ..... 16 p2474 N84-25861 #
NBSIR-84-2827 ..... 17 p2755 N84-27491 #
NBSIR-84-2838 ..... 20 p3309 N84-31016 #
NBSIR-84-3002 ..... 20 p3176 N84-30171 #
NBSIR-1693-VOL-1 ..... 08 p1153 N84-17510 #

NCAR-ADMP-83-2 ..... 10 p1532 N84-20037 #

NCAR/AR-83 ..... 20 p3249 N84-30621 #

NCAR/CT-73 ..... 14 p2181 N84-24064 #
NCAR/CT-75 ..... 08 p1193 N84-17779 #
NCAR/CT-76 ..... 08 p1193 N84-17778 #
NCAR/CT-78 ..... 20 p3243 N84-30592 #
NCAR/CT-81 ..... 21 p3449 N84-31885 #

NCAR/TN-84-217+1A ..... 09 p1350 N84-18820 #
NCAR/TN-203 ..... 02 p0257 N84-11681 #
NCAR/TN-210+STR ..... 01 p0110 N84-10715 #
NCAR/TN-212 ..... 05 p0710 N84-14651 #
NCAR/TN-213+STR ..... 09 p1417 N84-19272* #
NCAR/TN-214+STR ..... 10 p1532 N84-20035 #
NCAR/TN-215 ..... 10 p1532 N84-20037 #
NCAR/TN-216 ..... 05 p0710 N84-14652 #
NCAR/TN-220 ..... 12 p1862 N84-22134 #
NCAR/TN-221 ..... 11 p1760 N84-21484 #
NCAR/TN-223+IA ..... 11 p1705 N84-21114 #
NCAR/TN-227 ..... 22 p3626 N84-32977 #
NCAR/TN-229 ..... 20 p3320 N84-31075 #
NCAR/TN-230 ..... 21 p3450 N84-31891 #
NCAR/TN-231 ..... 20 p3244 N84-30593 #
NCAR/TN-232 ..... 22 p3642 N84-33094 #

NCEL-CR-83.027 ..... 14 p2158 N84-23931 #
NCEL-CR-83.028 ..... 01 p0103 N84-10667 #
NCEL-CR-83.040 ..... 09 p1341 N84-18760 #
NCEL-CR-84.016 ..... 15 p2343 N84-25067 #
NCEL-CR-84.017 ..... 15 p2350 N84-25110 #
NCEL-CR-84.019 ..... 16 p2477 N84-25879 #
NCEL-CR-84.027 ..... 24 p3947 N84-34998 #

NCEL-TN-1664 ..... 06 p0900 N84-15843 #
NCEL-TN-1673 ..... 05 p0681 N84-14479 #
NCEL-TN-1679 ..... 14 p2172 N84-24009 #
NCEL-TN-1684 ..... 12 p1774 N84-21565 #
NCEL-TN-1685 ..... 16 p2519 N84-26169 #
NCEL-TN-1686 ..... 15 p2330 N84-24989 #
NCEL-TN-1691 ..... 22 p3560 N84-32543 #
NCEL-TN-1696 ..... 22 p3618 N84-32923 #

NCEL-TR-903 ..... 05 p0689 N84-14527 #
NCEL-TR-907 ..... 19 p3032 N84-29231 #

NCS-TIB-83-4-VOL-1 ..... 04 p0522 N84-13432 #
NCS-TIB-83-4-VOL-2 ..... 04 p0522 N84-13431 #
NCS-TIB-83-5 ..... 05 p0684 N84-14498 #
NCS-TIB-84-3 ..... 18 p2829 N84-27962 #

NCSC-CR-102-83 ..... 05 p0716 N84-14690 #

NCSC-TECH-MAN-4110-1-83 ..... 01 p0117 N84-10761 #

NCSC-TM-378-83 ..... 01 p0117 N84-10762 #

NCSU-243-043-003 ..... 14 p2241 N84-24458 #
NCSU-243-043-004 ..... 17 p2769 N84-27582 #

ND-R-751(S) 18 p2931 N84-28583
ND-R-790(R) 18 p2850 N84-28099
ND-R-802(S) 18 p2813 N84-27856
ND-R-816(R) 18 p2852 N84-28106
ND-R-892(R) ..... 24 p3913 N84-34778 #
ND-R-941(S) 18 p2852 N84-28107

NDRE/PUBL-83/1001 ..... 10 p1546 N84-20136 #
NDRE/PUBL-84/1001 ..... 21 p3457 N84-31937 #

NDU/ICAF-83/013 ..... 10 p1438 N84-19390 #
NDU/ICAF-83/047 ..... 08 p1095 N84-17121 #

NEAR-TR-268 ..... 15 p2264 N84-24597 #
NEAR-TR-286 ..... 07 p0948 N84-16151 #
NEAR-TR-294 ..... 09 p1252 N84-18175 #
NEAR-TR-305 ..... 04 p0481 N84-13166 #
NEAR-TR-307 ..... 08 p1096 N84-17129* #
NEAR-TR-310 ..... 08 p1157 N84-17535 #
NEAR-TR-322 ..... 16 p2572 N84-26509* #
NEAR-TR-324 ..... 23 p3833 N84-34315 #

NEDRES-1-PT-1 ..... 12 p1863 N84-22136 #

NEDU-6-84 ..... 19 p2969 N84-28816 #

NEL-686 ..... 13 p1991 N84-22924 #

NEPRF-CR-83-05 ..... 01 p0107 N84-10696 #
NEPRF-CR-83-06 ..... 07 p1039 N84-16739 #
NEPRF-CR-83-07 ..... 09 p1350 N84-18817 #
NEPRF-CR-83-08 ..... 11 p1687 N84-21001 #
NEPRF-CR-83-09 ..... 15 p2371 N84-25227 #
NEPRF-CR-84-01 ..... 19 p3008 N84-29065 #
NEPRF-CR-84-04 ..... 24 p3934 N84-34904 #

NEPRF-TR-08-04 ..... 23 p3802 N84-34109 #
NEPRF-TR-83-02 ..... 08 p1113 N84-17240 #
NEPRF-TR-83-03-VOL-5-1 ..... 07 p1039 N84-16740 #
NEPRF-TR-83-06 ..... 07 p1040 N84-16742 #
NEPRF-TR-84-01 ..... 19 p3058 N84-29401 #
NEPRF-TR-84-02 ..... 18 p2889 N84-28340 #
NEPRF-TR-84-03 ..... 19 p3059 N84-29407 #

NF/CEE-82132-VOL-1 ..... 01 p0058 N84-10382 #

NFAP-325 ..... 02 p0241 N84-11577 #

NFL-DITC-34/83 ..... 17 p2751 N84-27458

NFL-II-38/84 ..... 24 p3847 N84-34394 #
NFL-II-39/84 ..... 24 p3847 N84-34395 #

NGB-1410.4JJ ..... 23 p3834 N84-34321* #

NHK-LABS-NOTE-297 ..... 20 p3177 N84-30175 #
NHK-LABS-NOTE-299 ..... 20 p3177 N84-30174 #
NHK-LABS-NOTE-300 ..... 19 p3003 N84-29036 #

NHK-LN-292 ..... 15 p2370 N84-25218 #
NHK-LN-295 ..... 15 p2335 N84-25014 #

NHK-SERIAL-293 ..... 15 p2319 N84-24919 #
NHK-SERIAL-294 ..... 15 p2417 N84-25511 #
NHK-SERIAL-296 ..... 15 p2407 N84-25449 #
NHK-SERIAL-298 ..... 15 p2403 N84-25424 #

NIAST-82/78 ..... 04 p0486 N84-13192 #
NIAST-82/80 ..... 07 p0945 N84-16133 #
NIAST-83/08 ..... 07 p1068 N84-16938 #

NIH-N01-HV-2912 ..... 05 p0714 N84-14678 #

NIHM-84-388 ..... 17 p2746 N84-27434 #

NIIEFA-P-K-0609 ..... 11 p1737 N84-21333 #

NIMH-83-310 ..... 04 p0574 N84-13779 #
NIMH-83-333 ..... 08 p1204 N84-17850 #
NIMH-83-335 ..... 08 p1198 N84-17809 #
NIMH-83-403 ..... 20 p3263 N84-30701 #
NIMH-84-382 ..... 15 p2384 N84-25295 #

NIPER-134-PPS-84/2 ..... 20 μ3166 N84-30106 #

NISC-TRANS-7224 ..... 10 p1427 N84-19336 #

NL-83LO355 ..... 24 p3884 N84-34612 #

NLM-MED-83-02-REV ..... 03 p0460 N84-13029 #
NLM-MED-83-03 ..... 03 p0460 N84-13028 #
NLM-MED-83-04 ..... 03 p0460 N84-13027 #
NLM-MED-83-08 ..... 09 p1405 N84-19181 #
NLM-MED-83-09 ..... 11 p1750 N84-21424 #
NLM-MED-84-02 ..... 21 p3520 N84-32300 #

NLM-TSD-84-01 ..... 22 p3675 N84-33296 #

NLR-MEMO-SM-83-050-U ..... 23 p3720 N84-33583 #

NLR-MP-81012-U ..... 17 p2610 N84-26705 #
NLR-MP-82006-U ..... 02 p0175 N84-11151 #
NLR-MP-82007-U ..... 06 p0845 N84-15513 #
NLR-MP-82014-U 06 p0780 N84-15113
NLR-MP-82015-U ..... 06 p0896 N84-15819 #
NLR-MP-82020-U ..... 06 p0783 N84-15131 #
NLR-MP-82021-U ..... 06 p0862 N84-15616 #
NLR-MP-82023-U ..... 06 p0862 N84-15617 #
NLR-MP-82024-U ..... 06 p0903 N84-15860 #
NLR-MP-82026-U ..... 06 p0902 N84-15856 #
NLR-MP-82027-U ..... 06 p0903 N84-15861 #
NLR-MP-82030-U ..... 06 p0903 N84-15862 #
NLR-MP-82032-U ..... 06 p0892 N84-15798 #
NLR-MP-82034-U ..... 20 p3204 N84-30351 #
NLR-MP-82036-U ..... 12 p1778 N84-21603 #
NLR-MP-82038-U ..... 15 p2397 N84-25379 #
NLR-MP-82041-U ..... 06 p0787 N84-15149 #
NLR-MP-82045-U ..... 09 p1387 N84-19059 #
NLR-MP-82046-U ..... 10 p1495 N84-19774 #
NLR-MP-82047-U ..... 10 p1593 N84-20442 #
NLR-MP-82048-U ..... 10 p1431 N84-19355 #
NLR-MP-82050-U ..... 09 p1405 N84-19180 #
NLR-MP-82051-U ..... 12 p1808 N84-21787 #
NLR-MP-82052-U ..... 09 p1253 N84-18181 #
NLR-MP-82053-U ..... 12 p1808 N84-21788 #
NLR-MP-82054-U ..... 09 p1366 N84-18917 #
NLR-MP-82055-U ..... 09 p1335 N84-18713 #
NLR-MP-82056-U ..... 10 p1572 N84-20300 #
NLR-MP-82057-U ..... 12 p1767 N84-21523 #
NLR-MP-82058-U ..... 10 p1463 N84-19556 #
NLR-MP-82059-U ..... 09 p1379 N84-19011 #
NLR-MP-82060-U ..... 09 p1317 N84-18603 #
NLR-MP-83001-U ..... 17 p2601 N84-26672 #
NLR-MP-83002-U ..... 15 p2320 N84-24929 #
NLR-MP-83003-U ..... 12 p1901 N84-22379 #
NLR-MP-83006-U ..... 12 p1767 N84-21524 #
NLR-MP-83009-U ..... 12 p1885 N84-22287 #
NLR-MP-83010-U ..... 12 p1771 N84-21550 #
NLR-MP-83011-U ..... 13 p2030 N84-23165 #
NLR-MP-83012-U ..... 12 p1766 N84-21521 #
NLR-MP-83013-U ..... 12 p1768 N84-21534 #
NLR-MP-83014-U ..... 13 p1937 N84-22600 #
NLR-MP-83015-U ..... 17 p2760 N84-27531 #
NLR-MP-83016-U ..... 16 p2502 N84-26057 #
NLR-MP-83017-U ..... 12 p1766 N84-21522 #
NLR-MP-83018-U ..... 15 p2393 N84-25363 #
NLR-MP-83021-U ..... 17 p2601 N84-26673 #
NLR-MP-83022-U ..... 16 p2495 N84-26012 #
NLR-MP-83024-U ..... 15 p2349 N84-25100 #
NLR-MP-83026-U ..... 21 p3467 N84-31984 #
NLR-MP-83027-U ..... 20 p3275 N84-30791 #
NLR-MP-83028-U ..... 15 p2390 N84-25339 #
NLR-MP-83029-U ..... 20 p3187 N84-30253 #
NLR-MP-83030-U ..... 17 p2601 N84-26674 #
NLR-MP-83031-U ..... 18 p2922 N84-28530 #
NLR-MP-83032-U ..... 17 p2754 N84-27481 #
NLR-MP-83033-U ..... 15 p2384 N84-25296 #
NLR-MP-83035-U ..... 18 p2922 N84-28531 #
NLR-MP-83036-U ..... 17 p2601 N84-26675 #
NLR-MP-83037-U ..... 17 p2721 N84-27323 #
NLR-MP-83038-U ..... 17 p2669 N84-27019 #
NLR-MP-83039-U ..... 17 p2750 N84-27454 #
NLR-MP-83043-U ..... 17 p2725 N84-27343 #
NLR-MP-83044-U ..... 17 p2754 N84-27482 #
NLR-MP-83047-U ..... 18 p2876 N84-28263 #
NLR-MP-83048-U ..... 17 p2680 N84-27073 #
NLR-MP-83049-U ..... 17 p2669 N84-27020 #
NLR-MP-83051-U ..... 17 p2606 N84-26697 #
NLR-MP-83052-U ..... 20 p3129 N84-29869 #
NLR-MP-83053-U ..... 17 p2616 N84-26742 #
NLR-MP-83058-U ..... 17 p2669 N84-27021 #
NLR-MP-83060-U ..... 20 p3292 N84-30898 #
NLR-MP-83064-U ..... 17 p2763 N84-27551 #
NLR-MP-83070-U ..... 23 p3692 N84-33399 #

NLR-TR-81074-U ..... 03 p0373 N84-12433 #
NLR-TR-81078-U ..... 03 p0374 N84-12434 #
NLR-TR-81120-U ..... 13 p2002 N84-22990 #
NLR-TR-81139-U ..... 20 p3182 N84-30216 #
NLR-TR-82012-U ..... 03 p0321 N84-12098 #
NLR-TR-82019-U ..... 23 p3820 N84-34226 #
NLR-TR-82021-U ..... 12 p1827 N84-21909 #
NLR-TR-82041-U-REV ..... 09 p1258 N84-18212 #
NLR-TR-82054-U ..... 15 p2296 N84-24782 #
NLR-TR-82054-U-ADD ..... 23 p3720 N84-33583 #
NLR-TR-82075-U ..... 12 p1769 N84-21541 #
NLR-TR-82078-U ..... 09 p1256 N84-18200 #
NLR-TR-82081-U ..... 15 p2260 N84-24572 #
NLR-TR-82088-U-PT-1 ..... 23 p3692 N84-33397 #
NLR-TR-82088-U-PT-2 ..... 23 p3692 N84-33398 #
NLR-TR-82105-U ..... 15 p2297 N84-24783 #
NLR-TR-82113-U ..... 15 p2349 N84-25101 #
NLR-TR-82123-U ..... 20 p3132 N84-29891 #
NLR-TR-82125-U ..... 15 p2296 N84-24781 #
NLR-TR-82134-U ..... 20 p3132 N84-29886 #
NLR-TR-83031-U ..... 20 p3132 N84-29892 #
NLR-TR-83041-U ..... 15 p2332 N84-25004 #
NLR-TR-83047-U ..... 18 p2922 N84-28529 #
NLR-TR-83048-U ..... 23 p3694 N84-33409 #
NLR-TR-83099-U ..... 20 p3164 N84-30097 #
NLR-TR-83104-U ..... 21 p3403 N84-31592 #

NMAB-403 ..... 13 p2006 N84-23011 #
NMAB-412 ..... 19 p2998 N84-29000 #

NMERI-TA5-11 ..... 10 p1471 N84-19608 #

NMI-R-162 ..... 05 p0694 N84-14555 #
NMI-R-167 ..... 18 p2855 N84-28127
NMI-R-175 ..... 18 p2851 N84-28104
NMI-R-176 ..... 18 p2851 N84-28105

NMI-R177 ..... 20 p3250 N84-30626

NMRI-83-09 ..... 02 p0265 N84-11745 #
NMRI-83-51 ..... 15 p2380 N84-25265 #
NMRI-83-51 ..... 17 p2745 N84-27429 #

NOAA-DL-ERL-GFDL-2 ..... 08 p1193 N84-17780 #
NOAA-DL-ERL-GFDL-3 ..... 10 p1541 N84-20101 #

NOAA-DR-ERL-ARL-3 ..... 08 p1188 N84-17742 #

NOAA-DR-ERL-GFDL-1-PT-1 ..... 01 p0109 N84-10709 #

NOAA-DR-ERL-GLERL-26 ..... 09 p1339 N84-18745 #

NOAA-DR-ERL-PMEL-10 ..... 11 p1692 N84-21036 #

NOAA-DR-ERL-WPL-3 ..... 14 p2183 N84-24083 #
NOAA-DR-ERL-WPL-4-PT-2 ..... 20 p3251 N84-30637 #

NOAA-NWS-CRCP-8 ..... 01 p0110 N84-10711 #
NOAA-NWS-CRCP-9 ..... 03 p0422 N84-12757 #
NOAA-NWS-CRCP-10 ..... 08 p1215 N84-17925 #
NOAA-NWS-CRCP-11 ..... 08 p1193 N84-17776 #
NOAA-NWS-CRCP-12 ..... 09 p1370 N84-18946 #
NOAA-NWS-CRCP-14 ..... 20 p3246 N84-30603 #

NOAA-NWS-ERCP-12 ..... 08 p1193 N84-17775 #
NOAA-NWS-ERCP-13 ..... 09 p1351 N84-18826 #
NOAA-NWS-ERCP-14 ..... 10 p1542 N84-20103 #
NOAA-NWS-ERCP-15 ..... 14 p2181 N84-24070 #
NOAA-NWS-ERCP-16 ..... 14 p2181 N84-24071 #
NOAA-NWS-ERCP-17 ..... 20 p3248 N84-30616 #
NOAA-NWS-ERCP-18 ..... 20 p3248 N84-30617 #
NOAA-NWS-ERCP-19 ..... 20 p3268 N84-30738 #
NOAA-NWS-ERCP-21 ..... 21 p3467 N84-31985 #

NOAA-NWS-HR-54 ..... 08 p1193 N84-17777 #

NOAA-NWS-TDL-CP-83-3 ..... 10 p1541 N84-20098 #
NOAA-NWS-TDL-CP-83-5 ..... 14 p2180 N84-24060 #

NOAA-S/T-84-114 ..... 20 p3275 N84-30795 #

NOAA-TM-ERL-AOML-54 ..... 03 p0412 N84-12700 #
NOAA-TM-ERL-AOML-55 ..... 14 p2183 N84-24084 #
NOAA-TM-ERL-AOML-56 ..... 16 p2534 N84-26270 #

NOAA-TM-ERL-ARL-121 ..... 01 p0110 N84-10717 #
NOAA-TM-ERL-ARL-122 ..... 08 p1193 N84-17774 #
NOAA-TM-ERL-ARL-126 ..... 20 p3319 N84-31070 #

NOAA-TM-ERL-ESG-2 ..... 01 p0006 N84-10040 #

NOAA-TM-ERL-ESG-3 ..... 14 p2182 N84-24073 #
NOAA-TM-ERL-ESG-4 ..... 20 p3249 N84-30623 #

NOAA-TM-ERL-GLERL-49 ..... 11 p1672 N84-20911 #

NOAA-TM-ERL-NMC-67 ..... 10 p1543 N84-20112 #

NOAA-TM-ERL-NOS-CGS-1 ..... 20 p3275 N84-30795 #

NOAA-TM-ERL-NSSL-95 ..... 14 p2181 N84-24063 #

NOAA-TM-ERL-PMEL-45 ..... 04 p0570 N84-13753 #
NOAA-TM-ERL-PMEL-48 ..... 04 p0556 N84-13661 #
NOAA-TM-ERL-PMEL-51 ..... 21 p3450 N84-31895 #
NOAA-TM-ERL-PMEL-52 ..... 22 p3615 N84-32903 #
NOAA-TM-ERL-PMEL-53 ..... 22 p3628 N84-32988 #

NOAA-TM-ERL-RFC-12 ..... 01 p0068 N84-10447 #

NOAA-TM-ERL-SEL-66 ..... 11 p1756 N84-21466 #
NOAA-TM-ERL-SEL-67 ..... 22 p3578 N84-32665 #

NOAA-TM-ERL-WPL-109 ..... 01 p0068 N84-10446 #
NOAA-TM-ERL-WPL-110 ..... 01 p0106 N84-10690 #
NOAA-TM-ERL-WPL-111 ..... 04 p0596 N84-13931 #
NOAA-TM-ERL-WPL-112 ..... 04 p0565 N84-13726 #
NOAA-TM-ERL-WPL-113 ..... 14 p2177 N84-24040 #
NOAA-TM-ERL-WPL-114 ..... 14 p2182 N84-24076 #
NOAA-TM-ERL-WPL-115 ..... 22 p3578 N84-32668 #
NOAA-TM-ERL-WPL-116 ..... 22 p3578 N84-32669 #

NOAA-TM-MWS-NHC-22 ..... 16 p2531 N84-26252 #

NOAA-TM-NESDIS-3 ..... 14 p2177 N84-24039 #
NOAA-TM-NESDIS-6 ..... 20 p3240 N84-30571 #

NOAA-TM-NOS-NGS-39 ..... 21 p3467 N84-31987 #

NOAA-TM-NWS-CR-69 ..... 01 p0109 N84-10710 #

NOAA-TM-NWS-ER-67 ..... 21 p3449 N84-31887 #

NOAA-TM-NWS-FCST-28 ..... 01 p0110 N84-10716 #
NOAA-TM-NWS-FCST-29 ..... 14 p2182 N84-24077 #

NOAA-TM-NWS-NHC-21 ..... 14 p2181 N84-24067 #

NOAA-TM-NWS-SR-108 ..... 09 p1350 N84-18821 #
NOAA-TM-NWS-SR-109 ..... 09 p1350 N84-18822 #

NOAA-TM-NWS-TDL-72 ..... 14 p2180 N84-24062 #

NOAA-TM-NWS-WR-177-REV ..... 03 p0412 N84-12699 #
NOAA-TM-NWS-WR-179 ..... 04 p0568 N84-13746 #

NOAA-TM-OAO-1 ..... 10 p1541 N84-20099 #
NOAA-TM-OAO-2 ..... 17 p2605 N84-26692 #

NOAA-TM-34L-PMEL-54 ..... 21 p3450 N84-31890 #

NOAA-TR-ERL-423 ..... 09 p1319 N84-18614 #
NOAA-TR-ERL-424-ARL-7 ..... 08 p1188 N84-17743 #

NOAA-TR-NESDIS-1 ..... 04 p0568 N84-13745 #
NOAA-TR-NESDIS-3 ..... 08 p1189 N84-17748 #
NOAA-TR-NESDIS-5 ..... 08 p1192 N84-17772 #
NOAA-TR-NESDIS-7 ..... 17 p2722 N84-27324 #
NOAA-TR-NESDIS-8 ..... 21 p3451 N84-31900 #
NOAA-TR-NESDIS-9 ..... 17 p2607 N84-26698 #
NOAA-TR-NESDIS-11 ..... 23 p3800 N84-34096 #

NOAA-TR-NOS-NGS-29 ..... 21 p3445 N84-31861 #

NOAA-TR-NOS95-NGS-24 ..... 07 p1029 N84-16672* #

NOAA-TR-NWS-35 ..... 08 p1192 N84-17766 #
NOAA-TR-NWS-37 ..... 20 p3248 N84-30619 #

NOAA-TR-OTES-11 ..... 01 p0127 N84-10830 #

NOAA-83060807-PT-2 ..... 01 p0166 N84-11090 #
NOAA-83061303 ..... 01 p0111 N84-10722 #
NOAA-83061306-VOL-27-NO-2 ..... 01 p0109 N84-10708 #
NOAA-83061501 ..... 01 p0068 N84-10446 #
NOAA-83061502 ..... 01 p0106 N84-10690 #
NOAA-83061605-PT-1 ..... 01 p0109 N84-10709 #
NOAA-83062001 ..... 01 p0060 N84-10393 #
NOAA-83062002 ..... 01 p0060 N84-10394 #
NOAA-83062003 ..... 01 p0060 N84-10392 #
NOAA-83062004 ..... 01 p0060 N84-10395 #
NOAA-83062005 ..... 01 p0060 N84-10397 #
NOAA-83062026 ..... 01 p0060 N84-10398 #
NOAA-83062036 ..... 01 p0060 N84-10396 #
NOAA-83062202-PT-1 ..... 01 p0166 N84-11091 #
NOAA-83062203-PT-2 ..... 02 p0308 N84-12022 #
NOAA-83062205 ..... 01 p0068 N84-10447 #
NOAA-83062206 ..... 01 p0006 N84-10040 #
NOAA-83062207 ..... 01 p0110 N84-10711 #
NOAA-83062209 ..... 01 p0109 N84-10710 #
NOAA-83062702 ..... 01 p0110 N84-10713 #
NOAA-83062901 ..... 01 p0085 N84-10556 #
NOAA-83070501 ..... 01 p0127 N84-10830 #
NOAA-83071201-PT-1 ..... 02 p0305 N84-12005 #
NOAA-83071202 ..... 01 p0165 N84-11081 #
NOAA-83071301 ..... 01 p0110 N84-10716 #
NOAA-83071406 ..... 01 p0101 N84-10657 #
NOAA-83071810 ..... 01 p0110 N84-10717 #
NOAA-83072201 ..... 03 p0402 N84-12631 #
NOAA-83072601 ..... 03 p0422 N84-12757 #
NOAA-83080101 ..... 03 p0402 N84-12632 #
NOAA-83080903 ..... 04 p0568 N84-13746 #
NOAA-83081101 ..... 04 p0565 N84-13724 #
NOAA-83081102 ..... 04 p0557 N84-13674* #
NOAA-83081103 ..... 04 p0596 N84-13931 #
NOAA-83081104 ..... 04 p0565 N84-13726 #
NOAA-83081105 ..... 04 p0570 N84-13753 #
NOAA-83081106 ..... 04 p0556 N84-13661 #
NOAA-83081107 ..... 03 p0412 N84-12700 #
NOAA-83082301 ..... 04 p0568 N84-13745 #
NOAA-83082302 ..... 04 p0568 N84-13747 #
NOAA-83082401-PT-1 ..... 07 p1093 N84-17107 #
NOAA-83082402-PT-2 ..... 05 p0765 N84-15018 #
NOAA-83082406 ..... 05 p0698 N84-14582 #
NOAA-83082407 ..... 05 p0709 N84-14648 #
NOAA-83082408 ..... 05 p0710 N84-14653 #
NOAA-83082409 ..... 04 p0569 N84-13748 #
NOAA-83083101 ..... 05 p0711 N84-14660 #
NOAA-83090106 ..... 05 p0710 N84-14650 #
NOAA-83092901 ..... 08 p1189 N84-17748 #
NOAA-83092904 ..... 08 p1189 N84-17745 #
NOAA-83092905 ..... 08 p1188 N84-17744 #
NOAA-83092907 ..... 08 p1193 N84-17780 #
NOAA-83092908 ..... 08 p1196 N84-17801 #
NOAA-83092910 ..... 08 p1196 N84-17800 #
NOAA-83092920 ..... 08 p1246 N84-18144 #
NOAA-83092921 ..... 08 p1246 N84-18145 #
NOAA-83100602 ..... 08 p1188 N84-17742 #
NOAA-83101201 ..... 10 p1543 N84-20112 #
NOAA-83101901 ..... 08 p1192 N84-17771 #
NOAA-83101903 ..... 08 p1193 N84-17781 #
NOAA-83102001 ..... 08 p1188 N84-17743 #
NOAA-83102502 ..... 09 p1319 N84-18614 #
NOAA-83102503 ..... 08 p1192 N84-17773 #
NOAA-83102701 ..... 08 p1192 N84-17772 #
NOAA-83102801 ..... 09 p1339 N84-18745 #
NOAA-83110203 ..... 09 p1417 N84-19270 #
NOAA-83110204 ..... 09 p1417 N84-19271 #
NOAA-83110205 ..... 09 p1350 N84-18819 #
NOAA-83110801 ..... 08 p1193 N84-17774 #
NOAA-83111404 ..... 08 p1215 N84-17925 #
NOAA-83111405 ..... 08 p1193 N84-17776 #
NOAA-83111801 ..... 09 p1350 N84-18821 #
NOAA-83111802 ..... 09 p1350 N84-18822 #
NOAA-83112101 ..... 08 p1197 N84-17802 #
NOAA-83112909 ..... 09 p1417 N84-19273 #
NOAA-83112910 ..... 09 p1417 N84-19274 #
NOAA-83113001 ..... 08 p1193 N84-17775 #
NOAA-83113002 ..... 09 p1351 N84-18826 #
NOAA-83120104 ..... 10 p1541 N84-20099 #
NOAA-83120107 ..... 08 p1189 N84-17750 #
NOAA-83120501 ..... 09 p1370 N84-18946 #
NOAA-83120502 ..... 10 p1537 N84-20074 #
NOAA-83120901 ..... 10 p1541 N84-20098 #
NOAA-83120902 ..... 10 p1538 N84-20075 #
NOAA-83120903 ..... 09 p1335 N84-18715 #
NOAA-83121201 ..... 09 p1350 N84-18823 #
NOAA-83121202 ..... 09 p1350 N84-18824 #
NOAA-83121404 ..... 10 p1541 N84-20100 #
NOAA-83121901 ..... 10 p1541 N84-20101 #
NOAA-83121902 ..... 11 p1756 N84-21466 #
NOAA-83122001 ..... 10 p1541 N84-20102 #
NOAA-84010301 ..... 11 p1692 N84-21036 #
NOAA-84010302 ..... 11 p1672 N84-20911 #
NOAA-84010305 ..... 10 p1542 N84-20103 #
NOAA-84010401-PT-1 ..... 12 p1923 N84-22526 #
NOAA-84010402-PT-2 ..... 11 p1760 N84-21483 #
NOAA-84010406-REV ..... 11 p1692 N84-21037 #
NOAA-84011901-PT-1 ..... 12 p1863 N84-22136 #
NOAA-84012001 ..... 14 p2177 N84-24041 #
NOAA-84012002 ..... 12 p1863 N84-22137 #
NOAA-84012503 ..... 14 p2177 N84-24039 #
NOAA-84012504 ..... 15 p2374 N84-25245 #
NOAA-84012505 ..... 14 p2177 N84-24040 #
NOAA-84012506 ..... 14 p2183 N84-24084 #
NOAA-84012507 ..... 14 p2183 N84-24083 #
NOAA-84012601 ..... 12 p1837 N84-21976 #
NOAA-84013001 ..... 14 p2180 N84-24059 #
NOAA-84013101 ..... 14 p2180 N84-24061 #
NOAA-84013104 ..... 14 p2180 N84-24062 #
NOAA-84020201 ..... 14 p2180 N84-24060 #
NOAA-84020701 ..... 17 p2605 N84-26692 #
NOAA-84020702 ..... 14 p2181 N84-24063 #

NOAA-84020703-PT-1 ..... 14 p2252 N84-24523 #
NOAA-84020704-PT-2 ..... 14 p2252 N84-24524 #
NOAA-84021606 ..... 14 p2181 N84-24068 #
NOAA-84021609 ..... 14 p2182 N84-24076 #
NOAA-84021611 ..... 14 p2181 N84-24066 #
NOAA-84021612 ..... 14 p2181 N84-24065 #
NOAA-84022305 ..... 15 p2372 N84-25231 #
NOAA-84022309 ..... 14 p2181 N84-24070 #
NOAA-84022310 ..... 14 p2181 N84-24071 #
NOAA-84022401 ..... 14 p2181 N84-24067 #
NOAA-84030701 ..... 16 p2534 N84-26270 #
NOAA-84030702 ..... 14 p2182 N84-24073 #
NOAA-84031201 ..... 15 p2374 N84-25246 #
NOAA-84031202 ..... 16 p2531 N84-26252 #
NOAA-84031203 ..... 17 p2735 N84-27385 #
NOAA-84031501 ..... 20 p3249 N84-30623 #
NOAA-84031901 ..... 17 p2722 N84-27324 #
NOAA-84032301 ..... 20 p3248 N84-30616 #
NOAA-84032302 ..... 20 p3248 N84-30617 #
NOAA-84032305-PT-1 ..... 20 p3320 N84-31073 #
NOAA-84032306-PT-2 ..... 20 p3320 N84-31074 #
NOAA-84040301 ..... 20 p3275 N84-30795 #
NOAA-84040302 ..... 20 p3249 N84-30622 #
NOAA-84041304 ..... 20 p3237 N84-30551 #
NOAA-84041305 ..... 20 p3248 N84-30618 #
NOAA-84041305 ..... 21 p3519 N84-32299 #
NOAA-84041801 ..... 21 p3449 N84-31883 #
NOAA-84041802 ..... 20 p3252 N84-30638 #
NOAA-84041901 ..... 20 p3248 N84-30619 #
NOAA-84041904-PT-2 ..... 20 p3251 N84-30637 #
NOAA-84041905 ..... 20 p3319 N84-31070 #
NOAA-84041906 ..... 21 p3449 N84-31884 #
NOAA-84043005-PT-1 ..... 20 p3320 N84-31076 #
NOAA-84043006-PT-2 ..... 20 p3320 N84-31077 #
NOAA-84043011 ..... 20 p3246 N84-30603 #
NOAA-84043012 ..... 20 p3238 N84-30554 #
NOAA-84043013 ..... 21 p3450 N84-31892 #
NOAA-84050301 ..... 20 p3320 N84-31078 #
NOAA-84050701 ..... 21 p3451 N84-31900 #
NOAA-84051002 ..... 21 p3450 N84-31893 #
NOAA-84051701 ..... 21 p3450 N84-31894 #
NOAA-84051702 ..... 21 p3450 N84-31895 #
NOAA-84051703 ..... 22 p3615 N84-32903 #
NOAA-84051704 ..... 22 p3578 N84-32665 #
NOAA-84052201 ..... 21 p3467 N84-31987 #
NOAA-84052404 ..... 21 p3450 N84-31888 #
NOAA-84052408 ..... 21 p3433 N84-31780 #
NOAA-84060106 ..... 21 p3449 N84-31887 #
NOAA-84060403 ..... 21 p3450 N84-31889 #
NOAA-84060405 ..... 21 p3445 N84-31861 #
NOAA-84060502-PT-1 ..... 22 p3680 N84-33329 #
NOAA-84060503-PT-2 ..... 22 p3680 N84-33330 #
NOAA-84061103 ..... 22 p3578 N84-32669 #
NOAA-84061104 ..... 22 p3628 N84-32988 #
NOAA-84061105 ..... 21 p3450 N84-31890 #
NOAA-84061107 ..... 22 p3626 N84-32978 #
NOAA-84061108 ..... 21 p3467 N84-31985 #
NOAA-84061401 ..... 22 p3626 N84-32979 #
NOAA-840430010 ..... 20 p3268 N84-30738 #

NOAA/TR-NESDIS-6 ..... 09 p1350 N84-18819 #

NOC-CR-167 ..... 01 p0065 N84-10427 #

NOC-TD-651 ..... 17 p2629 N84-26819 #

NOCC/JTWC-TN-82-1 ..... 01 p0108 N84-10700 #
NOCC/JTWC-TN-83-1 ..... 05 p0708 N84-14638 #

NOO-TR-270 ..... 04 p0590 N84-13899 #
NOO-TR-283 ..... 02 p0258 N84-11686 #

NOR-83-84 ..... 06 p0806 N84-15251 #

NORDA-TN-171 ..... 06 p0884 N84-15747 #
NORDA-TN-176 ..... 16 p2532 N84-26257 #
NORDA-TN-183 ..... 11 p1692 N84-21033 #
NORDA-TN-193 ..... 01 p0111 N84-10720 #
NORDA-TN-205 ..... 01 p0067 N84-10438 #
NORDA-TN-206 ..... 10 p1543 N84-20111 #
NORDA-TN-209 ..... 10 p1543 N84-20110 #
NORDA-TN-220 ..... 02 p0239 N84-11570 #
NORDA-TN-222 ..... 06 p0883 N84-15746 #
NORDA-TN-224 ..... 06 p0884 N84-15748 #
NORDA-TN-226 ..... 04 p0569 N84-13749 #
NORDA-TN-227 ..... 09 p1318 N84-18613 #
NORDA-TN-239 ..... 15 p2363 N84-25176 #
NORDA-TN-240 ..... 06 p0884 N84-15749 #
NORDA-TN-241 ..... 06 p0884 N84-15750 #
NORDA-TN-250 ..... 17 p2737 N84-27388 #
NORDA-TN-261 ..... 15 p2373 N84-25235 #
NORDA-TN-264 ..... 17 p2721 N84-27321 #
NORDA-TN-267 ..... 18 p2893 N84-28359 #
NORDA-TN-270 ..... 19 p3062 N84-29426 #
NORDA-TN-273 ..... 22 p3627 N84-32985 #

NORDA-49 ..... 09 p1304 N84-18522 #
NORDA-57 ..... 15 p2332 N84-25008 #
NORDA-71 ..... 21 p3444 N84-31851 #

NORSAR-CONTRIB-334 ..... 06 p0878 N84-15713 #

NORSAR-SCIENTIFIC-2-82/83 ..... 06 p0878 N84-15713 #

NOSC-CR-159 ..... 01 p0071 N84-10462 #
NOSC-CR-168 ..... 01 p0147 N84-10966 #
NOSC-CR-198 ..... 09 p1309 N84-18555 #
NOSC-CR-210 ..... 14 p2202 N84-24219 #
NOSC-CR-218 ..... 12 p1807 N84-21779 #
NOSC-CR-220 ..... 12 p1811 N84-21805 #
NOSC-CR-223 ..... 15 p2391 N84-25351 #
NOSC-CR-224 ..... 14 p2173 N84-24017 #
NOSC-CR-229 ..... 18 p2945 N84-28673 #
NOSC-CR-231 ..... 17 p2763 N84-27548 #

NOSC-TD-579 ..... 01 p0159 N84-11047 #
NOSC-TD-626 ..... 11 p1706 N84-21119 #

NOSC/CR-153 ..... 05 p0727 N84-14770 #
NOSC/CR-232 ..... 19 p3013 N84-29102 #

NOSC/TD-552-VOL-3 ..... 19 p3077 N84-29523 #
NOSC/TD-587 ..... 03 p0410 N84-12685 #
NOSC/TD-598 ..... 04 p0623 N84-14107 #
NOSC/TD-607 ..... 09 p1300 N84-18502 #
NOSC/TD-610 ..... 05 p0669 N84-14399 #
NOSC/TD-649 ..... 10 p1562 N84-20237 #
NOSC/TD-654 ..... 11 p1666 N84-20866 #
NOSC/TD-690 ..... 19 p2961 N84-28770 #
NOSC/TD-695 ..... 19 p3054 N84-29378 #

NOSC/TR-813 ..... 08 p1145 N84-17450 #
NOSC/TR-839 ..... 03 p0361 N84-12349 #
NOSC/TR-860 ..... 10 p1486 N84-19716 #
NOSC/TR-879 ..... 08 p1221 N84-17970 #
NOSC/TR-891 ..... 05 p0667 N84-14388 #
NOSC/TR-911 ..... 11 p1642 N84-20738 #
NOSC/TR-937 ..... 14 p2203 N84-24222 #
NOSC/TR-950 ..... 22 p3645 N84-33114 #

NOTA-INTERNA-820 ..... 20 p3178 N84-30169 #

NOTE-282 ..... 24 p3950 N84-35013 #
NOTE-285 ..... 24 p3893 N84-34656 #

NP-4900854 ..... 15 p2359 N84-25159 #
NP-4901066 ..... 21 p3375 N84-31416 #

NPG-34 ..... 07 p0966 N84-16258* #

NPL-DITC-27/83 ..... 03 p0419 N84-12739
NPL-DITC-28/83 ..... 03 p0420 N84-12740
NPL-DITC-35/83 ..... 15 p2385 N84-25305
NPL-DITC-36/84 ..... 18 p2917 N84-28493
NPL-DITC-38/84 ..... 20 p3172 N84-30143
NPL-DITC-39/84 ..... 18 p2919 N84-28512

NPL-DMA(A)-68 ..... 03 p0388 N84-12526
NPL-DMA(A)-69 ..... 12 p1825 N84-21897
NPL-DMA(A)-70 ..... 20 p3195 N84-30292
NPL-DMA(A)-71 ..... 15 p2346 N84-25075
NPL-DMA(A)-72 ..... 15 p2294 N84-24769
NPL-DMA(A)-73 ..... 15 p2415 N84-25500
NPL-DMA(A)-75 ..... 17 p2622 N84-26782
NPL-DMA(A)-76 ..... 15 p2346 N84-25077
NPL-DMA(A)-77 ..... 19 p3034 N84-29243
NPL-DMA(A)-78 ..... 19 p3026 N84-29190

NPL-QU-AR-82 ..... 16 p2494 N84-26002

NPL-QU-66 ..... 12 p1878 N84-22240

NPL-RS(EXT)-69 ..... 12 p1896 N84-22347

NPRDC-SR-83-33 ..... 01 p0116 N84-10750 #

NPRDC-TR-83-29 ..... 05 p0719 N84-14713 #
NPRDC-TR-83-32 ..... 06 p0897 N84-15824 #
NPRDC-TR-83-34 ..... 07 p1050 N84-16801 #
NPRDC-TR-84-4 ..... 10 p1554 N84-20187 #
NPRDC-TR-84-28 ..... 14 p2185 N84-24091 #
NPRDC-TR-84-29 ..... 15 p2383 N84-25291 #
NPRDC-TR-84-30 ..... 15 p2382 N84-25286 #
NPRDC-TR-84-33 ..... 16 p2546 N84-26341 #
NPRDC-TR-84-33-SUPPL ..... 19 p3077 N84-29521 #
NPRDC-TR-84-43 ..... 20 p3262 N84-30697 #
NPRDC-TR-84-48 ..... 23 p3811 N84-34163 #

NPS-61-84-004 ..... 24 p3965 N84-35109 #
NPS-012-83-004PR ..... 05 p0766 N84-15024 #

NPS52-83-009 ..... 03 p0420 N84-12747 #

NPS52-83-010 ..... 05 p0730 N84-14790 #
NPS52-83-012 ..... 05 p0728 N84-14779 #
NPS52-84-001 ..... 12 p1896 N84-22351 #
NPS52-84-002 ..... 12 p1882 N84-22269 #
NPS52-84-003 ..... 12 p1919 N84-22501 #
NPS52-84-004 ..... 14 p2202 N84-24217 #
NPS52-84-005 ..... 17 p2750 N84-27453 #
NPS52-84-006 ..... 19 p3088 N84-29605 #
NPS53-84-003 ..... 21 p3474 N84-32020 #
NPS54-83-002 ..... 05 p0718 N84-14709 #
NPS54-83-006 ..... 01 p0159 N84-11049 #
NPS54-83-008 ..... 03 p0416 N84-12722 #
NPS54-83-012 ..... 15 p2392 N84-25357 #
NPS54-83-014 ..... 10 p1593 N84-20444 #
NPS55-82-031 ..... 07 p1041 N84-16750 #
NPS55-83-013 ..... 01 p0011 N84-10072 #
NPS55-83-019 ..... 01 p0137 N84-10898 #
NPS55-83-022 ..... 05 p0643 N84-14229 #
NPS55-83-023 ..... 10 p1426 N84-19327 #
NPS55-83-025 ..... 08 p1213 N84-17912 #
NPS55-83-034 ..... 16 p2551 N84-26370 #
NPS55-83-037 ..... 17 p2759 N84-27514 #
NPS55-84-001 ..... 14 p2210 N84-24263 #
NPS55-84-002 ..... 20 p3175 N84-30160 #
NPS55-84-003 ..... 17 p2752 N84-27468 #
NPS55-84-005 ..... 19 p3058 N84-29399 #
NPS55-84-006 ..... 17 p2760 N84-27527 #
NPS55-84-007 ..... 17 p2734 N84-27379 #
NPS55-84-009 ..... 19 p3089 N84-29612 #
NPS55-84-011 ..... 20 p3281 N84-30829 #
NPS55-84-012 ..... 20 p3251 N84-30632 #
NPS61-83-002 ..... 04 p0595 N84-13925 #
NPS61-83-003-REV ..... 11 p1729 N84-21280 #
NPS61-83-010 ..... 11 p1729 N84-21281 #
NPS61-84-006 ..... 22 p3653 N84-33155 #
NPS61-84-008 ..... 21 p3493 N84-32136 #
NPS61-84-010 ..... 22 p3577 N84-32657 #
NPS62-83-058 ..... 08 p1228 N84-18021 #
NPS62-83-060 ..... 14 p2140 N84-23828 #
NPS62-84-061 ..... 17 p2759 N84-27517 #
NPS63-83-004 ..... 08 p1195 N84-17795 #
NPS63-84-001 ..... 18 p2879 N84-28280 #
NPS63-84-003 ..... 20 p3251 N84-30631 #
NPS63-84-004 ..... 21 p3447 N84-31873 #
NPS67-83-003CR ..... 15 p2304 N84-24824 #
NPS67-84-001 ..... 13 p1956 N84-22715 #
NPS68-83-003 ..... 05 p0711 N84-14658 #
NPS68-83-005 ..... 10 p1543 N84-20109 #
NPS68-84-001 ..... 19 p3062 N84-29428 #
NPS68-84-002 ..... 19 p3061 N84-29424 #
NPS68-84-003 ..... 18 p2892 N84-28357 #
NPS68-84-005 ..... 19 p3061 N84-29425 #
NPS69-82-008 ..... 17 p2667 N84-27008 #
NPS69-84-001 ..... 22 p3625 N84-32970 #
NPS69-84-003 ..... 23 p3725 N84-33602 #
NPS69-84-004 ..... 20 p3184 N84-30233 #
NPS69-84-005-PT-2 ..... 23 p3802 N84-34108 #

NRC-33 ..... 09 p1291 N84-18428 #
NRC-20974 ..... 18 p2810 N84-27837 #
NRC-21230 ..... 01 p0004 N84-10028 #
NRC-21274 ..... 01 p0004 N84-10029 #
NRC-21299-PT-3 ..... 09 p1276 N84-18332 #
NRC-21300-PT-4 ..... 09 p1276 N84-18333 #
NRC-21379 ..... 06 p0784 N84-15136 #
NRC-22448 ..... 06 p0844 N84-15503 #
NRC-22576 ..... 05 p0629 N84-14135 #
NRC-22648 ..... 09 p1290 N84-18421 #
NRC-22700-PT-2 ..... 09 p1276 N84-18331 #
NRC-22751 ..... 09 p1342 N84-18767 #
NRC-22797 ..... 10 p1569 N84-20281 #
NRC-22825 ..... 11 p1668 N84-20882 #
NRC-22831 ..... 11 p1668 N84-20881 #
NRC-22889 ..... 12 p1792 N84-21689 #
NRC-23412 ..... 23 p3690 N84-33389 #
NRC-33184 ..... 20 p3126 N84-29855 #

NRC/CNR-IT-2071 ..... 05 p0711 N84-14661 #

NRC/CNR-TT-2064 ..... 03 p0395 N84-12578 #
NRC/CNR-TT-2067 ..... 06 p0814 N84-15295 #
NRC/CNR-TT-2070 ..... 06 p0877 N84-15707 #
NRC/CNR-TT-2073 ..... 06 p0800 N84-15217 #
NRC/CNR-TT-2074 ..... 07 p0965 N84-16256 #
NRC/CNR-TT-2076 ..... 07 p1012 N84-16584 #
NRC/CNR-TT-2078 ..... 11 p1636 N84-20694 #
NRC/CNR-TT-2079 ..... 12 p1898 N84-22364 #
NRC/CNR-TT-2080 ..... 15 p2403 N84-25423

NRF/PRA-83038 ..... 12 p1862 N84-22133 #

NRL-MEMO-5176 ..... 05 p0749 N84-14920 #
NRL-MEMO-5185 ..... 07 p0998 N84-16474 #

NRL-MR-3332-SUPPL ..... 09 p1391 N84-19086 #
NRL-MR-4688 ..... 21 p3493 N84-32132 #

NRL-MR-4945 ..... 02 p0294 N84-11927 #
NRL-MR-5058 ..... 02 p0289 N84-11892 #
NRL-MR-5076 ..... 01 p0087 N84-10568 #
NRL-MR-5089 ..... 04 p0541 N84-13565 #
NRL-MR-5106 ..... 14 p2151 N84-23864 #
NRL-MR-5108 ..... 06 p0914 N84-15945 #
NRL-MR-5109 ..... 02 p0302 N84-11982 #
NRL-MR-5110 ..... 08 p1165 N84-17583 #
NRL-MR-5117 ..... 01 p0105 N84-10681 #
NRL-MR-5118 ..... 01 p0150 N84-10984 #
NRL-MR-5119 ..... 01 p0105 N84-10680 #
NRL-MR-5120 ..... 01 p0105 N84-10684 #
NRL-MR-5121 ..... 01 p0140 N84-10915 #
NRL-MR-5133 ..... 01 p0105 N84-10682 #
NRL-MR-5134 ..... 04 p0522 N84-13430 #
NRL-MR-5136 ..... 14 p2222 N84-24332 #
NRL-MR-5138 ..... 03 p0432 N84-12829 #
NRL-MR-5140 ..... 11 p1729 N84-21282 #
NRL-MR-5141 ..... 05 p0745 N84-14891 #
NRL-MR-5143 ..... 01 p0133 N84-10869 #
NRL-MR-5145 ..... 03 p0360 N84-12342 #
NRL-MR-5147 ..... 04 p0534 N84-13510 #
NRL-MR-5148 ..... 01 p0149 N84-10977 #
NRL-MR-5149 ..... 06 p0917 N84-15961 #
NRL-MR-5150 ..... 02 p0225 N84-11478 #
NRL-MR-5153 ..... 08 p1195 N84-17794 #
NRL-MR-5156 ..... 05 p0675 N84-14440 #
NRL-MR-5157 ..... 04 p0604 N84-13986 #
NRL-MR-5158 ..... 02 p0200 N84-11301 #
NRL-MR-5160 ..... 04 p0553 N84-13646 #
NRL-MR-5161 ..... 06 p0921 N84-15989 #
NRL-MR-5164 ..... 06 p0785 N84-15140 #
NRL-MR-5165 ..... 05 p0697 N84-14575 #
NRL-MR-5167 ..... 06 p0823 N84-15367 #
NRL-MR-5168 ..... 04 p0563 N84-13708 #
NRL-MR-5169 ..... 07 p1008 N84-16534 #
NRL-MR-5170 ..... 04 p0540 N84-13556 #
NRL-MR-5171 ..... 06 p0941 N84-16113 #
NRL-MR-5174 ..... 07 p1076 N84-16997 #
NRL-MR-5175 ..... 04 p0553 N84-13645 #
NRL-MR-5176 ..... 06 p0915 N84-15947 #
NRL-MR-5177 ..... 07 p1072 N84-16963 #
NRL-MR-5179 ..... 06 p0844 N84-15505 #
NRL-MR-5182 ..... 05 p0749 N84-14919 #
NRL-MR-5184 ..... 04 p0528 N84-13470 #
NRL-MR-5185 ..... 08 p1209 N84-17886 #
NRL-MR-5186 ..... 06 p0921 N84-15991 #
NRL-MR-5187 ..... 06 p0849 N84-15538 #
NRL-MR-5191 ..... 06 p0915 N84-15948 #
NRL-MR-5196 ..... 08 p1229 N84-18030 #
NRL-MR-5197 ..... 05 p0749 N84-14917 #
NRL-MR-5199 ..... 05 p0759 N84-14976 #
NRL-MR-5204 ..... 16 p2556 N84-26399 #
NRL-MR-5205 ..... 04 p0529 N84-13483 #
NRL-MR-5206 ..... 08 p1220 N84-17968 #
NRL-MR-5209 ..... 08 p1187 N84-17734 #
NRL-MR-5211 ..... 07 p1008 N84-16533 #
NRL-MR-5212 ..... 05 p0646 N84-14251 #
NRL-MR-5213 ..... 20 p3266 N84-30724 #
NRL-MR-5214 ..... 07 p1079 N84-17018 #
NRL-MR-5215 ..... 12 p1908 N84-22430 #
NRL-MR-5217 ..... 11 p1620 N84-20607 #
NRL-MR-5219 ..... 09 p1392 N84-19087 #
NRL-MR-5220 ..... 09 p1378 N84-19002 #
NRL-MR-5221 ..... 13 p1995 N84-22951 #
NRL-MR-5223 ..... 12 p1901 N84-22383 #
NRL-MR-5224 ..... 10 p1479 N84-19662 #
NRL-MR-5225 ..... 19 p3107 N84-29744 #
NRL-MR-5227 ..... 08 p1220 N84-17964 #
NRL-MR-5228 ..... 09 p1385 N84-19046 #
NRL-MR-5229 ..... 09 p1315 N84-18594 #
NRL-MR-5231 ..... 14 p2119 N84-23702 #
NRL-MR-5232 ..... 11 p1731 N84-21294 #
NRL-MR-5234 ..... 10 p1537 N84-20068 #
NRL-MR-5235 ..... 10 p1569 N84-20277 #
NRL-MR-5236 ..... 12 p1902 N84-22386 #
NRL-MR-5237 ..... 13 p1993 N84-22937 #
NRL-MR-5239 ..... 11 p1713 N84-21168 #
NRL-MR-5240 ..... 11 p1737 N84-21331* #
NRL-MR-5241 ..... 11 p1660 N84-20832 #
NRL-MR-5243 ..... 10 p1491 N84-19749 #
NRL-MR-5246 ..... 11 p1643 N84-20739 #
NRL-MR-5248 ..... 10 p1449 N84-19466 #
NRL-MR-5249 ..... 09 p1314 N84-18587 #
NRL-MR-5252 ..... 10 p1576 N84-20327 #
NRL-MR-5253 ..... 10 p1469 N84-19596 #
NRL-MR-5259 ..... 19 p3102 N84-29703 #
NRL-MR-5260 ..... 14 p2228 N84-24359 #
NRL-MR-5261 ..... 13 p2011 N84-23047 #
NRL-MR-5262 ..... 12 p1909 N84-22439 #
NRL-MR-5263 ..... 13 p2011 N84-23043 #
NRL-MR-5264 ..... 14 p2228 N84-24358 #
NRL-MR-5267 ..... 11 p1628 N84-20656 #
NRL-MR-5268 ..... 13 p1996 N84-22952 #
NRL-MR-5270 ..... 13 p2044 N84-23266 #
NRL-MR-5271 ..... 11 p1643 N84-20741 #

NRL-MR-5274	13	p1995	N84-22947	#
NRL-MR-5275	19	p3077	N84-29520	#
NRL-MR-5276	14	p2142	N84-23842	#
NRL-MR-5277	14	p2228	N84-24362	#
NRL-MR-5278	14	p2224	N84-24348	#
NRL-MR-5279	15	p2350	N84-25108	#
NRL-MR-5280	15	p2410	N84-25486	#
NRL-MR-5281	16	p2555	N84-26394	#
NRL-MR-5284	15	p2321	N84-24936	#
NRL-MR-5285	14	p2229	N84-24365	#
NRL-MR-5286	15	p2350	N84-25109	#
NRL-MR-5288	15	p2336	N84-25026	#
NRL-MR-5289	14	p2224	N84-24347	#
NRL-MR-5292	19	p3041	N84-29294	#
NRL-MR-5295	15	p2297	N84-24785	#
NRL-MR-5296	19	p3101	N84-29696	#
NRL-MR-5298	16	p2557	N84-26404	#
NRL-MR-5301	14	p2151	N84-23886	#
NRL-MR-5302	19	p3107	N84-29739	#
NRL-MR-5305	18	p2933	N84-28597	#
NRL-MR-5306	16	p2580	N84-26546	#
NRL-MR-5311	19	p3107	N84-29740	#
NRL-MR-5312	18	p2880	N84-28285	#
NRL-MR-5313	19	p2999	N84-29001	#
NRL-MR-5314	19	p3027	N84-29195	#
NRL-MR-5318	18	p2932	N84-28591	#
NRL-MR-5321	18	p2929	N84-28577	#
NRL-MR-5327	19	p3107	N84-29742	#
NRL-MR-5328	18	p2931	N84-28584	#
NRL-MR-5330	19	p3107	N84-29741	#
NRL-MR-5331	18	p2834	N84-27991	#
NRL-MR-5332	20	p3173	N84-30152	#
NRL-MR-5333	18	p2818	N84-27894	#
NRL-MR-5334	21	p3400	N84-31567	#
NRL-MR-5336	19	p3076	N84-29515	#
NRL-MR-5337	20	p3250	N84-30629	#
NRL-MR-5340	20	p3273	N84-30775	#
NRL-MR-5345	22	p3659	N84-33191	#
NRL-MR-5346	23	p3798	N84-34082	#
NRL-MR-5347	23	p3827	N84-34276	#
NRL-MR-5348	23	p3828	N84-34278	#
NRL-MR-5352	23	p3815	N84-34193	#
NRL-MR-5355	22	p3657	N84-33183	#
NRL-MR-5356	20	p3174	N84-30153	#
NRL-MR-5357	22	p3561	N84-32553	#
NRL-MR-5358	23	p3822	N84-34235	#
NRL-MR-5362	23	p3828	N84-34279	#
NRL-MR-5363	22	p3658	N84-33190	#
NRL-MR-5364	20	p3272	N84-30771	#
NRL-MR-5366	24	p3880	N84-34582	#
NRL-MR-5367	24	p3895	N84-34665	#
NRL-MR-5369	22	p3577	N84-32654	#
NRL-MR-5370	22	p3607	N84-32851	#
NRL-MR-5371	22	p3668	N84-33250	#
NRL-MR-5375	22	p3627	N84-32984	#
NRL-MR-5379	23	p3828	N84-34280*	#
NRL-MR-5380	20	p3184	N84-30230	#
NRL-MR-5385	23	p3828	N84-34277	#
NRL-MR-5391	23	p3828	N84-34281	#
NRL-TR-1	01	p0148	N84-10969	#
NRL-TR-4	01	p0083	N84-10540	#
NRL-TR-4	18	p2811	N84-27843	#
NRL-8667	04	p0520	N84-13420	#
NRL-8679	02	p0272	N84-11781	#
NRL-8692	02	p0203	N84-11321	#
NRL-8694	06	p0824	N84-15369	#
NRL-8695	03	p0430	N84-12821	#
NRL-8698	01	p0064	N84-10420	#
NRL-8700	01	p0065	N84-10425	#
NRL-8703	02	p0248	N84-11626	#
NRL-8707	04	p0521	N84-13426	#
NRL-8708	01	p0063	N84-10414	#
NRL-8709	01	p0065	N84-10426	#
NRL-8710	08	p1151	N84-17493	#
NRL-8713	03	p0360	N84-12345	#
NRL-8716	01	p0070	N84-10456	#
NRL-8728	01	p0067	N84-10437	#
NRL-8729	06	p0829	N84-15396	#
NRL-8731	04	p0589	N84-13896	#
NRL-8734	05	p0729	N84-14785	#
NRL-8738	07	p1036	N84-16718	#
NRL-8740	02	p0209	N84-11363	#
NRL-8741	04	p0595	N84-13927	#
NRL-8744	08	p1145	N84-17453	#
NRL-8746	09	p1349	N84-18815	#
NRL-8755	08	p1162	N84-17563	#
NRL-8761	08	p1125	N84-17313	#
NRL-8765	12	p1806	N84-21776	#
NRL-8778	10	p1425	N84-19318	#
NRL-8779	12	p1801	N84-21743	#
NRL-8780	11	p1706	N84-21122	#
NRL-8789	14	p2141	N84-23836	#
NRL-8796	19	p3005	N84-29046	#
NRL-8797	20	p3173	N84-30149	#
NRL-8800	22	p3625	N84-32972	#
NRL-8815	23	p3815	N84-34194	#
NRL-8827	22	p3648	N84-33129	#
NRL-8828	22	p3599	N84-32792	#
NRTC-83-09R	01	p0086	N84-10560	#
NR81H-100	19	p2956	N84-28738*	#
NR83H-20	05	p0630	N84-14141	#
NR092-549-TR27	03	p0432	N84-12833	#
NR092-549-TR28	06	p0915	N84-15949	#
NSF-83-1	20	p3316	N84-31061	#
NSF-83-5	20	p3313	N84-31040	#
NSF-83-29	01	p0159	N84-11052	#
NSF-83-67	21	p3516	N84-32270	#
NSF-83-308	01	p0160	N84-11057	#
NSF-83-319-VOL-32	20	p3314	N84-31046	#
NSF-83-320-VOL-31	20	p3314	N84-31045	#
NSF/CEE-82062	04	p0516	N84-13391	#
NSF/CEE-82115	05	p0694	N84-14556	#
NSF/CEE-82117	04	p0505	N84-13308	#
NSF/CEE-82118	04	p0550	N84-13623	#
NSF/CEE-82133-VOL-2-APP	01	p0059	N84-10383	#
NSF/CEE-82141	01	p0059	N84-10388	#
NSF/CEE-82142	01	p0060	N84-10391	#
NSF/CEE-83015	09	p1335	N84-18714	#
NSF/CEE-83020	20	p3205	N84-30357	#
NSF/CEE-83031	20	p3205	N84-30358	#
NSF/CEE-83032	20	p3203	N84-30343	#
NSF/CEE-83035	20	p3171	N84-30137	#
NSF/CEE-83036	20	p3204	N84-30355	#
NSF/CEE-83037	20	p3171	N84-30136	#
NSF/CEE-83201	09	p1297	N84-18479	#
NSF/CEE-83214	08	p1189	N84-17747	#
NSF/CEE-83217	14	p2159	N84-23933	#
NSF/CEE-84003	20	p3204	N84-30356	#
NSF/CPE-83009	08	p1127	N84-17330	#
NSF/CPE-83010	14	p2248	N84-24500	#
NSF/CPE-83011	20	p3159	N84-30062	#
NSF/ECS-83-18	09	p1384	N84-19040	#
NSF/ECS-82078-PT-1	01	p0135	N84-10885	#
NSF/ECS-82079-PT-2	01	p0135	N84-10886	#
NSF/ECS-83002	01	p0135	N84-10887	#
NSF/ECS-83003	01	p0137	N84-10901	#
NSF/ECS-83006	01	p0135	N84-10884	#
NSF/ECS-83014	09	p1380	N84-19016	#
NSF/ECS-83015	09	p1379	N84-19014	#
NSF/ECS-83016	09	p1380	N84-19015	#
NSF/ECS-83017	09	p1379	N84-19013	#
NSF/ECS-83019	14	p2204	N84-24229	#
NSF/ECS-83020	14	p2204	N84-24228	#
NSF/ECS-83021	15	p2393	N84-25364	#
NSF/ISP-83004	03	p0458	N84-13016	#
NSF/ISP-83016	08	p1241	N84-18112	#
NSF/ISP-83025	14	p2248	N84-24501	#
NSF/ISTI/PIR-81-05585-1	05	p0758	N84-14971	#
NSF/MEA-82-03567	23	p3725	N84-33602	#
NSF/MEA-83002	17	p2675	N84-27044	#
NSF/MEA-83008	09	p1326	N84-18664	#
NSF/MEA-83011	10	p1473	N84-19618	#
NSF/MEA-83012	09	p1277	N84-18336	#
NSF/MEA-83013	10	p1464	N84-19562	#
NSF/MEA-83014	11	p1641	N84-20731	#
NSF/MEA-83015	11	p1648	N84-20774	#
NSF/MEA-84001	17	p2639	N84-26885	#
NSF/MEA-84003	21	p3415	N84-31656	#
NSF/OIR-83002	09	p1319	N84-18619	#
NSF/OIR-83005	14	p2124	N84-23731	#
NSF/OIR-83006	14	p2187	N84-24102	#
NSF/OIR-83007	17	p2755	N84-27486	#
NSF/OIR-83009	16	p2473	N84-25852	#
NSF/PRA-82049	08	p1238	N84-18095	#
NSF/PRA-82062	08	p1239	N84-18096	#
NSF/PRA-83013	01	p0159	N84-11052	#
NSF/PRA-83014	01	p0159	N84-11051	#
NSF/PRA-83015	01	p0159	N84-11050	#
NSF/PRA-83036	12	p1862	N84-22131	#
NSF/PRA-83037-APP	12	p1862	N84-22132	#
NSF/PRA-83046	22	p3669	N84-33256	#
NSF/PRA-83047-APP	22	p3669	N84-33255	#
NSMRL-MR-83-4	03	p0459	N84-13021	#
NSMRL-SR-83-1	06	p0889	N84-15777	#
NSMRL-975	19	p3065	N84-29445	#
NSMRL-1008	05	p0713	N84-14674	#

NSMRL-1011-6 ..... 09 p1363 N84-18904 #
NSMRL-1014 ..... 10 p1553 N84-20179 #
NSMRL-1018 ..... 14 p2103 N84-23616 #

NSS-SS-RP014-VOL-1-PT-1/2 ..... 21 p3352 N84-31263* #
NSS-SS-RP014-VOL-2-BK-1-PT-1/2 ..... 21 p3352 N84-31265* #
NSS-SS-RP016-VOL-2 ..... 21 p3352 N84-31264* #

NSSDC/WDA-A-R/S-83-14 ..... 02 p0305 N84-12003* #

NSSDC/WDC-A-R/S-83-07 ..... 13 p2071 N84-23420* #
NSSDC/WDC-A-R/S-83-08 ..... 02 p0183 N84-11187* #
NSSDC/WDC-A-R/S-83-10 ..... 02 p0305 N84-12002* #
NSSDC/WDC-A-R/S-83-16 ..... 13 p2071 N84-23421* #
NSSDC/WDC-A-R/S-83-17 ..... 13 p2071 N84-23418* #
NSSDC/WDC-A-R/S-83-18 ..... 13 p2070 N84-23417* #
NSSDC/WDC-A-R/S-83-19 ..... 13 p2070 N84-23416* #
NSSDC/WDC-A-R/S-84-02 ..... 13 p2071 N84-23419* #
NSSDC/WDC-A-R/S-84-04 ..... 13 p2070 N84-23415* #

NSTL/ERL-212 ..... 06 p0865 N84-15635* #
NSTL/ERL-215 ..... 07 p1020 N84-16620* #
NSTL/ERL-218 ..... 06 p0865 N84-15636* #
NSTL/ERL-221 ..... 02 p0238 N84-11562* #
NSTL/ERL-225 ..... 06 p0865 N84-15637* #

NSWC/MP-82-572 ..... 04 p0492 N84-13227 #
NSWC/MP-83-82 ..... 09 p1253 N84-18178 #
NSWC/MP-83-116 ..... 03 p0357 N84-12325 #
NSWC/MP-83-444 ..... 13 p1974 N84-22809 #

NSWC/TR-82-172 ..... 01 p0095 N84-10619 #
NSWC/TR-82-360 ..... 01 p0052 N84-10338 #
NSWC/TR-82-436 ..... 03 p0371 N84-12419 #
NSWC/TR-82-552 ..... 08 p1152 N84-17498 #
NSWC/TR-83-22 ..... 02 p0203 N84-11322 #
NSWC/TR-83-30 ..... 01 p0037 N84-10233 #
NSWC/TR-83-66 ..... 01 p0070 N84-10458 #
NSWC/TR-83-90 ..... 04 p0596 N84-13935 #
NSWC/TR-83-236 ..... 06 p0824 N84-15374 #
NSWC/TR-83-314 ..... 05 p0689 N84-14530 #
NSWC/TR-83-348 ..... 13 p2041 N84-23241 #
NSWC/TR-83-374 ..... 13 p1954 N84-22703 #
NSWC/TR-83-382 ..... 23 p3751 N84-33776 #
NSWC/TR-83-410 ..... 17 p2723 N84-27330 #
NSWC/TR-83-448 ..... 23 p3742 N84-33717 #
NSWC/TR-83-450 ..... 13 p1963 N84-22756 #

NT-81-19 ..... 06 p0782 N84-15119* #

NTIA-CR-82-28 ..... 17 p2655 N84-26979 #
NTIA-CR-83-23 ..... 17 p2655 N84-26980 #
NTIA-CR-83-25 ..... 10 p1484 N84-19702 #
NTIA-CR-83-27 ..... 10 p1484 N84-19703 #
NTIA-CR-83-29 ..... 17 p2655 N84-26981 #

NTIA-R-83-136 ..... 14 p2141 N84-23839 #

NTIA-REPT-83-115 ..... 09 p1305 N84-18530 #
NTIA-REPT-83-125 ..... 17 p2654 N84-26977 #
NTIA-REPT-83-139 ..... 17 p2654 N84-26978 #
NTIA-REPT-84-140 ..... 15 p2369 N84-25215 #
NTIA-REPT-84-145 ..... 20 p3176 N84-30170 #

NTIA-SP-83-15 ..... 03 p0363 N84-12366 #

NTIA-83-130 ..... 08 p1147 N84-17467 #
NTIA-83-137 ..... 14 p2176 N84-24033 #
NTIA-84-142 ..... 20 p3176 N84-30173 #
NTIA-84-144 ..... 20 p3316 N84-31060 #

NTIA/REPT-83-120 ..... 03 p0363 N84-12364 #
NTIA/REPT-83-121 ..... 03 p0363 N84-12365 #
NTIA/REPT-83-123 ..... 02 p0211 N84-11383 #
NTIA/REPT-83-124 ..... 04 p0523 N84-13442 #
NTIA/REPT-83-126 ..... 05 p0671 N84-14412 #
NTIA/REPT-83-127 ..... 08 p1147 N84-17468 #
NTIA/REPT-83-128 ..... 08 p1148 N84-17473 #
NTIA/REPT-83-129 ..... 08 p1148 N84-17475 #
NTIA/REPT-83-131 ..... 12 p1810 N84-21802 #
NTIA/REPT-83-132 ..... 08 p1148 N84-17471 #
NTIA/REPT-83-133 ..... 09 p1305 N84-18531 #
NTIA/REPT-83-134 ..... 08 p1147 N84-17469 #
NTIA/REPT-83-135 ..... 09 p1305 N84-18532 #
NTIA/REPT-83-136 ..... 11 p1645 N84-20755 #
NTIA/REPT-83-137 ..... 11 p1645 N84-20754 #
NTIA/REPT-84-143 ..... 22 p3578 N84-32667 #
NTIA/REPT-84-146 ..... 21 p3466 N84-31978 #

NTIS/CAAL-83 ..... 02 p0302 N84-11980

NTIS/REPT-83-119 ..... 02 p0211 N84-11381 #
NTIS/REPT-84-147 ..... 22 p3639 N84-33069 #
NTIS/REPT-84-148 ..... 22 p3578 N84-32666 #

NTS/ARG-84/01 ..... 16 p2443 N84-25672 #

NTSB-AAR-83-03 ..... 01 p0006 N84-10036 #
NTSB-AAR-83-05 ..... 04 p0482 N84-13169 #
NTSB-AAR-83-06 ..... 11 p1603 N84-20500 #
NTSB-AAR-83-07 ..... 04 p0481 N84-13168 #
NTSB-AAR-84-01 ..... 18 p2789 N84-27702 #
NTSB-AAR-84-02 ..... 11 p1603 N84-20502 #
NTSB-AAR-84-03 ..... 12 p1767 N84-21525 #
NTSB-AAR-84-04 ..... 14 p2103 N84-23613 #
NTSB-AAR-84-05 ..... 19 p2960 N84-28760 #
NTSB-AAR-84-07 ..... 22 p3533 N84-32368 #

NTSB-SR-83-01 ..... 03 p0328 N84-12142 #

NTSB-SS-84-02 ..... 19 p2960 N84-28761 #
NTSB-SS-84-03 ..... 16 p2445 N84-25681 #

NU-SML-TR-83-1 ..... 08 p1171 N84-17630 #
NU-SML-TR-84-1 ..... 12 p1826 N84-21907 #
NU-SML-TR-84-2 ..... 21 p3422 N84-31706 #

NUB-2606 ..... 11 p1745 N84-21384 #

NUREG/CR-2570-REV-1 ..... 01 p0097 N84-10629 #
NUREG/CR-2839 ..... 01 p0134 N84-10878 #
NUREG/CR-2905 ..... 01 p0080 N84-10522 #
NUREG/CR-3156 ..... 01 p0073 N84-10478 #
NUREG/CR-3225 ..... 01 p0037 N84-10236 #

NUSC-TD-6737 ..... 05 p0742 N84-14876 #
NUSC-TD-6935 ..... 02 p0294 N84-11925 #
NUSC-TD-6947 ..... 03 p0430 N84-12820 #
NUSC-TD-7133 ..... 17 p2763 N84-27549 #
NUSC-TD-7183 ..... 22 p3652 N84-33152 #

NUSC-TM-841057 ..... 19 p3084 N84-29573 #

NUSC-TR-6146 ..... 15 p2374 N84-25241 #
NUSC-TR-6198 ..... 08 p1220 N84-17966 #
NUSC-TR-6881 ..... 13 p2033 N84-23187 #
NUSC-TR-6883 ..... 13 p2034 N84-23188 #
NUSC-TR-6885 ..... 14 p2139 N84-23827 #
NUSC-TR-6921 ..... 04 p0589 N84-13895 #
NUSC-TR-6931 ..... 01 p0139 N84-10914 #
NUSC-TR-6999 ..... 05 p0735 N84-14823 #
NUSC-TR-7023 ..... 05 p0740 N84-14858 #
NUSC-TR-7035 ..... 05 p0733 N84-14816 #
NUSC-TR-7079 ..... 10 p1479 N84-19666 #

NUSC/TD-6148 ..... 01 p0133 N84-10672 #

NUSC/TR-6887 ..... 10 p1480 N84-19668 #

NVO-273 ..... 15 p2368 N84-25212 #

NW-84-3 ..... 20 p3179 N84-30189 #

NWC-TP-6098 ..... 15 p2258 N84-24565 #
NWC-TP-6372 ..... 11 p1638 N84-20707 #
NWC-TP-6420 ..... 11 p1639 N84-20713 #
NWC-TP-6434 ..... 09 p1300 N84-18499 #
NWC-TP-6455 ..... 05 p0653 N84-14292 #
NWC-TP-6464 ..... 12 p1820 N84-21867 #
NWC-TP-6476 ..... 18 p2814 N84-27865 #
NWC-TP-6481 ..... 10 p1486 N84-19717 #
NWC-TP-6508 ..... 20 p3131 N84-29882 #
NWC-TP-6517 ..... 14 p2134 N84-23787 #
NWC-TP-6521 ..... 15 p2398 N84-25387 #

NWS/COMMUNICATIONS/HB-4 ..... 15 p2372 N84-25231 #

NWSC/CR/RDTR-206 ..... 16 p2474 N84-25858 #
NWSC/CR/RDTR-207 ..... 16 p2474 N84-25857 #

NYERDA-83-5 ..... 14 p2173 N84-24016 #
NYERDA-83-16 ..... 20 p3234 N84-30530 #

NYSERDA-82-35 ..... 01 p0103 N84-10669 #
NYSERDA-83-6 ..... 04 p0556 N84-13659 #
NYSERDA-83-20 ..... 14 p2135 N84-23797 #
NYSERDA-84-10 ..... 22 p3619 N84-32932 #

NYU/DC/TR-3-NEW-SERIES-2 ..... 14 p2121 N84-23713 #
NYU/DC/TR-4-NEW SERIES-2 ..... 15 p2405 N84-25435 #
NYU/DC/TR-5-NEW-SERIES-2 ..... 18 p2930 N84-28578 #
NYU/DC/TR-6-NEW-SER-2 ..... 24 p3880 N84-34580 #

N1829-AF ..... 02 p0184 N84-11196 #
N00014-81-K-0477-2 ..... 02 p0226 N84-11481 #

OAI-1512-11-83 ..... 10 p1450 N84-19472* #

OD/FSTC-82/307 ..... 02 p0275 N84-11802 #

ODS/FSTC-82/333 ..... 01 p0126 N84-10819 #

OEFZS-4249 ..... 18 p2931 N84-28586 #

OEFZS-4267 ..... 18 p2900 N84-28399 #
OEFZS-4268 ..... 18 p2900 N84-28400 #
OEFZS-4269 ..... 18 p2900 N84-28401 #
OEFZS-4271 ..... 18 p2849 N84-28093 #
OEFZS-4272 ..... 18 p2931 N84-28587 #
OEFZS-4273 ..... 18 p2931 N84-28588 #

OEHL-TR-82-5 ..... 01 p0009 N84-10052 #

OEHL-83-096EE003AFA ..... 05 p0700 N84-14595 #
OEHL-83-116EA195CDA ..... 05 p0700 N84-14594 #
OEHL-83-128EH111DGA ..... 08 p1201 N84-17827 #
OEHL-83-216EQ195GEF ..... 09 p1342 N84-18766 #
OEHL-83-217EQ195GEF ..... 05 p0700 N84-14593 #
OEHL-83-298EH374JGA ..... 10 p1532 N84-20032 #

OFR-84-2 ..... 23 p3784 N84-33999 #

OIT/FSTC-83/2.01-REV-2.01 ..... 14 p2206 N84-24241 #
OIT/FSTC-83/280 ..... 14 p2208 N84-24257 #
OIT/FSTC-83/281 ..... 14 p2208 N84-24251 #
OIT/FSTC-83/284 ..... 20 p3276 N84-30797 #
OIT/FSTC-83/285 ..... 12 p1885 N84-22290 #
OIT/FSTC-83/290 ..... 20 p3276 N84-30798 #
OIT/FSTC-83/292 ..... 17 p2755 N84-27489 #
OIT/FSTC-83/293 ..... 17 p2755 N84-27488 #
OIT/FSTC-83/300 ..... 14 p2208 N84-24258 #
OIT/FSTC-83/302-REV ..... 14 p2207 N84-24250 #
OIT/FSTC-83/303 ..... 20 p3275 N84-30796 #
OIT/FSTC-83/311-REV-19.3.1 ..... 12 p1886 N84-22296 #
OIT/FSTC-83/315 ..... 14 p2208 N84-24252 #
OIT/FSTC-83/316 ..... 14 p2208 N84-24253 #
OIT/FSTC-83/320 ..... 17 p2755 N84-27487 #
OIT/FSTC-83/321 ..... 20 p3275 N84-30794 #
OIT/FSTC-83/325 ..... 20 p3268 N84-30735 #
OIT/FSTC-83/326 ..... 12 p1885 N84-22292 #
OIT/FSTC-83/327 ..... 14 p2208 N84-24254 #
OIT/FSTC-83/331 ..... 14 p2209 N84-24259 #
OIT/FSTC-83/335 ..... 12 p1886 N84-22297 #
OIT/FSTC-83/336 ..... 12 p1885 N84-22291 #
OIT/FSTC-84/151 ..... 20 p3267 N84-30734 #

OMD/HVM-83 ..... 23 p3784 N84-34002 #

ONERA-NT-1981-9 ..... 16 p2465 N84-25801 #
ONERA-NT-1981-10 ..... 06 p0902 N84-15855 #
ONERA-NT-1982-1 ..... 06 p0845 N84-15512 #
ONERA-NT-1982-4 ..... 06 p0905 N84-15875 #
ONERA-NT-1982-6 ..... 16 p2488 N84-25956 #
ONERA-NT-1982-7 ..... 17 p2724 N84-27336 #
ONERA-NT-1982-8 ..... 16 p2554 N84-26386 #
ONERA-NT-1983-1 ..... 16 p2488 N84-25957 #
ONERA-NT-1983-2 ..... 16 p2451 N84-25720 #
ONERA-NT-1983-3 ..... 16 p2462 N84-25781 #
ONERA-NT-1983-4 ..... 16 p2462 N84-25782 #
ONERA-NT-1983-5 ..... 16 p2454 N84-25735 #
ONERA-NT-1983-6 ..... 16 p2554 N84-26387 #
ONERA-NT-1983-7 ..... 16 p2560 N84-26422 #
ONERA-NT-1983-8 ..... 16 p2468 N84-25958 #
ONERA-NT-1983-9 ..... 16 p2488 N84-25959 #

ONERA-P-1982-1 ..... 16 p2549 N84-26361 #
ONERA-P-1983-1 ..... 16 p2539 N84-26301 #
ONERA-P-1983-2 ..... 16 p2565 N84-26455 #
ONERA-P-1983-3 ..... 16 p2487 N84-25954 #
ONERA-P-1983-4 ..... 16 p2487 N84-25955 #

ONERA-RT-6/3521-M ..... 20 p3147 N84-29980 #

ONERA-TP-1976-54 ..... 24 p3860 N84-34462* #
ONERA-TP-1981-117 ..... 06 p0781 N84-15118* #

ONERA-1982-4 ..... 04 p0477 N84-13141 #
ONERA-1982-5 ..... 04 p0477 N84-13142 #

ONR-R-2-84 ..... 14 p2247 N84-24492 #

ONR-TR-1 ..... 23 p3754 N84-33794 #
ONR-TR-5 ..... 18 p2810 N84-27839 #
ONR-TR-83-23 ..... 08 p1227 N84-18019 #
ONR-TR-160 ..... 06 p0905 N84-15874 #

ONR-83-AE ..... 01 p0114 N84-10740 #
ONR-84-1 ..... 19 p3063 N84-29437 #
ONR-84-24 ..... 18 p2929 N84-28571 #
ONR-8405 ..... 20 p3314 N84-31050 #

ONRFE-M6 ..... 17 p2772 N84-27600 #

ONRL-C-1-84 ..... 15 p2317 N84-24906 #
ONRL-C-9-83 ..... 04 p0538 N84-13536 #
ONRL-C-10-83 ..... 04 p0612 N84-14039 #
ONRL-C-11-83 ..... 04 p0525 N84-13455 #
ONRL-C-14-83 ..... 05 p0663 N84-14359 #
ONRL-C-15-83 ..... 07 p1070 N84-16951 #
ONRL-C-17-83 ..... 09 p1365 N84-18911 #

ONRL-C-18-83 ..... 13 p1993 N84-22930 #

ONRL-R-1-84 ..... 14 p2183 N84-24080 #
ONRL-R-3-84 ..... 13 p2037 N84-23215 #
ONRL-R-4-84 ..... 13 p2024 N84-23122 #
ONRL-R-5-84 ..... 15 p2302 N84-24813 #
ONRL-R-6-83 ..... 04 p0492 N84-13226 #
ONRL-R-6-84 ..... 20 p3177 N84-30179 #
ONRL-R-7-83 ..... 06 p0892 N84-15797 #
ONRL-R-7-84 ..... 22 p3674 N84-33289 #
ONRL-R-8-84 ..... 24 p3936 N84-34912 #
ONRL-R-9-84 ..... 24 p3935 N84-34911 #

ONWI-326 ..... 02 p0219 N84-11439 #
ONWI-448 ..... 04 p0554 N84-13651 #

OPEN-FILE-83-5 ..... 21 p3431 N84-31771 #

OPPORTUNITY-BRIEF-33-REV ..... 11 p1692 N84-21037 #

OR-17385 ..... 07 p1075 N84-16988 #

ORAU/IEA-82-10(M) ..... 03 p0402 N84-12626 #
ORAU/IEA-84-1(M) ..... 19 p3052 N84-29371 #

ORC-79-11 ..... 04 p0546 N84-13596 #
ORC-83-1 ..... 04 p0590 N84-13898 #
ORC-83-3 ..... 05 p0690 N84-14532 #
ORC-83-4 ..... 06 p0933 N84-16065 #
ORC-83-5 ..... 06 p0899 N84-15835 #
ORC-83-9 ..... 05 p0739 N84-14854 #
ORC-83-10 ..... 07 p1054 N84-16826 #
ORC-83-13 ..... 08 p1223 N84-17987 #
ORC-83-14 ..... 08 p1213 N84-17910 #
ORC-83-15 ..... 09 p1383 N84-19035 #
ORC-84-1 ..... 17 p2758 N84-27507 #

ORI-TR-1742 ..... 19 p2979 N84-28884* #

ORNL-5819 ..... 04 p0592 N84-13909 #
ORNL-5943 ..... 06 p0796 N84-15187 #
ORNL-5967 ..... 04 p0592 N84-13907 #
ORNL-5975 ..... 04 p0613 N84-14045 #
ORNL-5995 ..... 09 p1285 N84-16394 #
ORNL-6002 ..... 20 p3315 N84-31055 #
ORNL-6013 ..... 18 p2814 N84-27866 #
ORNL-6017 ..... 19 p3052 N84-29367 #
ORNL-6033 ..... 20 p3175 N84-30166 #

ORNL/CDIC-1 ..... 03 p0406 N84-12657 #
ORNL/CDIC-1/R1-REV-1 ..... 21 p3449 N84-31881 #
ORNL/CDIC-6 ..... 09 p1280 N84-18361 #

ORNL/CON-80/R1 ..... 04 p0535 N84-13519 #
ORNL/CON-119 ..... 04 p0545 N84-13592 #
ORNL/CON-131 ..... 02 p0229 N84-11505 #
ORNL/CON-135 ..... 02 p0301 N84-11974 #
ORNL/CON-149 ..... 15 p2344 N84-25072 #
ORNL/CON-154 ..... 21 p3507 N84-32219 #
ORNL/CON-159 ..... 22 p3594 N84-32763 #

ORNL/CSD-TM-61/R1 ..... 15 p2393 N84-25362 #
ORNL/CSD-TM-163 ..... 11 p1708 N84-21133 #
ORNL/CSD-TM-190 ..... 01 p0134 N84-10878 #
ORNL/CSD-TM-200 ..... 06 p0904 N84-15865 #
ORNL/CSD-TM-204 ..... 01 p0162 N84-11067 #
ORNL/CSD-TM-207 ..... 23 p3814 N84-34188 #
ORNL/CSD-TM-208 ..... 15 p2400 N84-25402 #

ORNL/CSD-111 ..... 01 p0112 N84-10728 #
ORNL/CSD-117 ..... 16 p2464 N84-25790 #
ORNL/CSD-120 ..... 01 p0135 N84-10882 #
ORNL/CSD-121 ..... 02 p0283 N84-11853 #
ORNL/CSD-122 ..... 04 p0501 N84-13284 #
ORNL/CSD-126 ..... 08 p1238 N84-18094 #
ORNL/CSD-127/P-2 ..... 23 p3790 N84-34040 #

ORNL/FEDC-83/2 ..... 07 p1077 N84-17004 #
ORNL/FEDC-83/5 ..... 07 p1076 N84-16998 #
ORNL/FEDC-83/8 ..... 12 p1911 N84-22450 #

ORNL/PPA-84/1 ..... 11 p1746 N84-21397 #

ORNL/SUB-78-7229/4 ..... 10 p1472 N84-19611 #
ORNL/SUB-78-7229/5 ..... 20 p3170 N84-30131 #
ORNL/SUB-79-7685/1 ..... 01 p0074 N84-10484 #
ORNL/SUB-79-21453/S2 ..... 12 p1813 N84-21819 #
ORNL/SUB-79-21453/14 ..... 02 p0214 N84-11402 #
ORNL/SUB-79-21453/16 ..... 13 p1987 N84-22899 #
ORNL/SUB-79-24712/3 ..... 20 p3185 N84-30239 #
ORNL/SUB-79-33200/15 ..... 14 p2149 N84-23874 #
ORNL/SUB-80-7800/1 ..... 04 p0534 N84-13513 #
ORNL/SUB-80-7800/2 ..... 07 p1003 N84-16504 #
ORNL/SUB-80-7800/3-06 ..... 12 p1817 N84-21842 #
ORNL/SUB-80-13836/1-02 ..... 10 p1502 N84-19821 #
ORNL/SUB-81-61623/1 ..... 15 p2414 N84-25493 #

ORNL/SUB-81-70519/1 ..... 19 p3018 N84-29136 #
ORNL/SUB-82-69604/1 ..... 16 p2512 N84-26120 #
ORNL/SUB-83-59393/1 ..... 12 p1814 N84-21823 #
ORNL/SUB-7676/4 ..... 18 p2933 N84-28600 #

ORNL/TM-7378 ..... 20 p3150 N84-29998 #
ORNL/TM-8183 ..... 22 p3641 N84-33089 #
ORNL/TM-8503 ..... 02 p0220 N84-11445 #
ORNL/TM-8525 ..... 07 p1084 N84-17051 #
ORNL/TM-8707 ..... 03 p0449 N84-12956 #
ORNL/TM-8713 ..... 06 p0920 N84-15984 #
ORNL/TM-8728 ..... 03 p0390 N84-12542 #
ORNL/TM-8750 ..... 04 p0606 N84-14001 #
ORNL/TM-8770 ..... 03 p0449 N84-12952 #
ORNL/TM-8773 ..... 02 p0296 N84-11941 #
ORNL/TM-8801 ..... 03 p0402 N84-12626 #
ORNL/TM-8806 ..... 04 p0606 N84-14000 #
ORNL/TM-8807 ..... 02 p0264 N84-11741 #
ORNL/TM-8815 ..... 04 p0607 N84-14004 #
ORNL/TM-8827 ..... 04 p0571 N84-13759 #
ORNL/TM-8830 ..... 04 p0501 N84-13286 #
ORNL/TM-8833 ..... 06 p0920 N84-15979 #
ORNL/TM-8840 ..... 07 p1026 N84-16650 #
ORNL/TM-8854 ..... 05 p0655 N84-14309 #
ORNL/TM-8861 ..... 07 p1076 N84-16999 #
ORNL/TM-8866 ..... 08 p1178 N84-17677 #
ORNL/TM-8868 ..... 05 p0745 N84-14897 #
ORNL/TM-8883 ..... 06 p0921 N84-15986 #
ORNL/TM-8924 ..... 13 p2045 N84-23272 #
ORNL/TM-8928 ..... 21 p3519 N84-32292 #
ORNL/TM-8963 ..... 09 p1342 N84-18763 #
ORNL/TM-8965 ..... 18 p2853 N84-28117 #
ORNL/TM-9009 ..... 14 p2124 N84-23729 #
ORNL/TM-9072 ..... 21 p3403 N84-31586 #
ORNL/TM-9075 ..... 22 p3660 N84-33204 #
ORNL/TM-9094 ..... 18 p2812 N84-27853 #
ORNL/TM-9112 ..... 20 p3292 N84-30897 #
ORNL/TM-9127 ..... 22 p3659 N84-33193 #
ORNL/TM-9133 ..... 22 p3659 N84-33195 #
ORNL/TM-9141 ..... 18 p2812 N84-27854 #
ORNL/TM-9147 ..... 18 p2933 N84-28598 #
ORNL/TM-9148 ..... 18 p2934 N84-28606 #
ORNL/TM-9156 ..... 20 p3298 N84-30944 #
ORNL/TM-9175 ..... 23 p3829 N84-34287 #
ORNL/TM-9213 ..... 22 p3578 N84-32661 #
ORNL/TM-9232 ..... 21 p3519 N84-32296 #

ORNL/TR-5117 ..... 21 p3359 N84-31309 #
ORNL/TR-5118 ..... 20 p3297 N84-30934 #
ORNL/TR-5126 ..... 21 p3496 N84-32158 #
ORNL/TR-5130 ..... 21 p3503 N84-32200 #

ORO-2408-218 ..... 09 p1388 N84-19063 #
ORO-5126-207 ..... 20 p3296 N84-30926 #

ORT-1-068-IDA(2) ..... 01 p0101 N84-10655 #

OSD/FCSC-83/005 ..... 05 p0720 N84-14721 #
OSD/FCSC-83/225 ..... 05 p0720 N84-14722 #

OSD/FCTC-82/270-REV-2.14 ..... 02 p0276 N84-11808 #
OSD/FCTC-83/006 ..... 14 p2206 N84-24242 #
OSD/FCTC-83/255 ..... 14 p2207 N84-24248 #

OSD/FSTC-82/271 ..... 02 p0275 N84-11799 #
OSD/FSTC-82/272 ..... 02 p0275 N84-11800 #
OSD/FSTC-82/273-REV-2.11 ..... 01 p0126 N84-10826 #
OSD/FSTC-82/274-REV-2.20 ..... 01 p0119 N84-10776 #
OSD/FSTC-82/275-REV-2.00 ..... 01 p0127 N84-10829 #
OSD/FSTC-82/306 ..... 02 p0275 N84-11801 #
OSD/FSTC-82/325 ..... 01 p0127 N84-10828 #
OSD/FSTC-82/326 ..... 01 p0125 N84-10817 #
OSD/FSTC-82/327 ..... 01 p0126 N84-10820 #
OSD/FSTC-82/328 ..... 01 p0125 N84-10818 #
OSD/FSTC-82/330 ..... 01 p0127 N84-10827 #
OSD/FSTC-82/331 ..... 01 p0125 N84-10816 #
OSD/FSTC-82/332 ..... 01 p0126 N84-10825 #
OSD/FSTC-82/335 ..... 10 p1558 N84-20206 #
OSD/FSTC-82/336 ..... 14 p2207 N84-24246 #
OSD/FSTC-82/340 ..... 02 p0276 N84-11811 #
OSD/FSTC-82/341 ..... 01 p0125 N84-10815 #
OSD/FSTC-82/342 ..... 01 p0126 N84-10823 #
OSD/FSTC-82/343 ..... 01 p0126 N84-10824 #
OSD/FSTC-82/345 ..... 02 p0276 N84-11810 #
OSD/FSTC-82/346 ..... 01 p0125 N84-10814 #
OSD/FSTC-82/347 ..... 01 p0126 N84-10822 #
OSD/FSTC-82/348 ..... 01 p0126 N84-10821 #
OSD/FSTC-83/015 ..... 14 p2208 N84-24256 #
OSD/FSTC-83/017 ..... 22 p3642 N84-33095 #
OSD/FSTC-83/105 ..... 04 p0583 N84-13853 #
OSD/FSTC-83/106 ..... 04 p0583 N84-13854 #
OSD/FSTC-83/140 ..... 10 p1565 N84-20256 #
OSD/FSTC-83/170 ..... 14 p2206 N84-24240 #
OSD/FSTC-83/174 ..... 02 p0276 N84-11806 #
OSD/FSTC-83/176 ..... 03 p0422 N84-12762 #
OSD/FSTC-83/177 ..... 02 p0276 N84-11805 #

OSD/FSTC-83/180 ..... 03 p0422 N84-12763 #
OSD/FSTC-83/181 ..... 02 p0276 N84-11807 #
OSD/FSTC-83/185 ..... 04 p0584 N84-13855 #
OSD/FSTC-83/186 ..... 03 p0422 N84-12758 #
OSD/FSTC-83/187 ..... 03 p0422 N84-12759 #
OSD/FSTC-83/188 ..... 03 p0422 N84-12760 #
OSD/FSTC-83/195 ..... 08 p1214 N84-17920 #
OSD/FSTC-83/196 ..... 08 p1214 N84-17919 #
OSD/FSTC-83/200 ..... 03 p0422 N84-12761 #
OSD/FSTC-83/201 ..... 04 p0583 N84-13851 #
OSD/FSTC-83/202 ..... 03 p0422 N84-12764 #
OSD/FSTC-83/203 ..... 03 p0423 N84-12765 #
OSD/FSTC-83/205 ..... 03 p0423 N84-12766 #
OSD/FSTC-83/206 ..... 02 p0275 N84-11803 #
OSD/FSTC-83/210 ..... 04 p0584 N84-13858 #
OSD/FSTC-83/211 ..... 04 p0584 N84-13859 #
OSD/FSTC-83/215 ..... 11 p1711 N84-21153 #
OSD/FSTC-83/220 ..... 05 p0720 N84-14723 #
OSD/FSTC-83/221 ..... 04 p0583 N84-13852 #
OSD/FSTC-83/222 ..... 17 p2755 N84-27490 #
OSD/FSTC-83/230 ..... 10 p1565 N84-20257 #
OSD/FSTC-83/240 ..... 08 p1214 N84-17923 #
OSD/FSTC-83/241 ..... 08 p1215 N84-17924 #
OSD/FSTC-83/245 ..... 09 p1370 N84-18947 #
OSD/FSTC-83/260 ..... 12 p1886 N84-22293 #
OSD/FSTC-83/261 ..... 11 p1705 N84-21113 #
OSD/FSTC-83/262 ..... 11 p1711 N84-21152 #
OSD/FSTC-83/263 ..... 11 p1710 N84-21149 #
OSD/FSTC-83/265 ..... 12 p1885 N84-22288 #
OSD/FSTC-83/266 ..... 12 p1886 N84-22294 #
OSD/FSTC-83/267 ..... 14 p2208 N84-24255 #
OSD/FSTC-83/270 ..... 10 p1557 N84-20204 #
OSD/FSTC-83/271 ..... 10 p1557 N84-20205 #
OSD/FSTC-83/272 ..... 11 p1710 N84-21151 #
OSD/FSTC-83/273 ..... 11 p1710 N84-21148 #
OSD/FSTC-83/274 ..... 14 p2207 N84-24247 #
OSD/FSTC-83/282 ..... 14 p2207 N84-24245 #
OSD/FSTC-83/295 ..... 09 p1370 N84-18949 #
OSD/FSTC-83/296 ..... 09 p1370 N84-18950 #
OSD/FSTC-83/297 ..... 09 p1371 N84-18951 #
OSD/FSTC-83/298 ..... 09 p1370 N84-18948 #
OSD/FSTC-83/310-REV ..... 14 p2207 N84-24249 #
OSD/FSTC-83/337 ..... 12 p1886 N84-22298 #

OSHA/RP-83/007 ..... 02 p0230 N84-11507 #

OSP86111 ..... 11 p1662 N84-20845 #

OSU-CISRC-TR-84-3 ..... 19 p3076 N84-29516 #

OSU-FPRC-A5/84 ..... 22 p3607 N84-32850 #

OSU-FPRC-83-A-S1 ..... 24 p3902 N84-34710 #

OSU-ONR-TR-83-5 ..... 06 p0822 N84-15362 #
OSU-ONR-TR-83-6 ..... 13 p2033 N84-23186 #
OSU-ONR-TR-83-7 ..... 13 p2040 N84-23237 #
OSU-ONR-TR-84-1 ..... 12 p1897 N84-22352 #
OSU-ONR-TR-84-2 ..... 12 p1894 N84-22338 #
OSU-ONR-TR-84-3 ..... 20 p3281 N84-30826 #
OSU-ONR-TR-84-4 ..... 19 p3088 N84-29603 #
OSU-ONR-TR-84-5 ..... 20 p3280 N84-30823 #

OSU/DGSS-344 ..... 05 p0741 N84-14867 #
OSU/DGSS-345 ..... 03 p0408 N84-12669 #
OSU/DGSS-349 ..... 11 p1682 N84-20978 #
OSU/DGSS-350 ..... 08 p1231 N84-18048 #
OSU/DGSS-353 ..... 19 p3054 N84-29382 #

OSURF-TR-25 ..... 06 p0801 N84-15222 #

OSURF-762084/712747 ..... 18 p2821 N84-27911 #

OT-O-8319 ..... 05 p0694 N84-14555 #
OT-O-82100 ..... 20 p3250 N84-30626

OT/R/176 ..... 18 p2851 N84-28105

OTA-A-226 ..... 16 p2568 N84-26482 #

OTA-BA-218 ..... 16 p2535 N84-26272 #

OTA-BP-STI-25 ..... 21 p3522 N84-32310 #

OTA-ISC-200 ..... 16 p2568 N84-26475 #
OTA-ISC-209 ..... 01 p0163 N84-11068 #

OTA-O-206 ..... 20 p3239 N84-30561 #

OTA-STI-175 ..... 03 p0329 N84-12143 #

OTA-TM-ISC-20 ..... 20 p3229 N84-30520 #

OTA-TM-STI-14 ..... 20 p3135 N84-29905 #

OU-AMNE-83-1 ..... 01 p0031 N84-10195 #

OU-AMNE-83-2 ..... 01 p0095 N84-10617 #
OU-AMNE-83-3 ..... 11 p1668 N84-20883 #
OU-AMNE-83-4 ..... 13 p2001 N84-22981 #
OU-AMNE-83-6 ..... 15 p2285 N84-24714 #

OU/AEC/EER-59-3 ..... 12 p1768 N84-21530 #
OU/AEC/EER-62-1 ..... 11 p1604 N84-20503 #

OUEL-1466/83 ..... 07 p1005 N84-16516 #
OUEL-1468/83 ..... 07 p1017 N84-16600 #
OUEL-1474/83 ..... 07 p1057 N84-16845 #
OUEL-1480/83 ..... 07 p0960 N84-16224 #
OUEL-1485/83 ..... 12 p1917 N84-22487 #
OUEL-1488/83 ..... 07 p1079 N84-17012 #
OUEL-1489/83 ..... 12 p1892 N84-22322 #
OUEL-1491/83 ..... 07 p1070 N84-16953 #
OUEL-1493/83 ..... 10 p1567 N84-20263 #
OUEL-1497/83 ..... 12 p1827 N84-21910 #
OUEL-1498/83 ..... 12 p1892 N84-22323 #
OUEL-1518/84 ..... 19 p3037 N84-29265 #
OUEL-1517/84 ..... 19 p3091 N84-29627 #
OUEL-1518/84 ..... 19 p3091 N84-29628 #
OUEL-1520/84 ..... 19 p3091 N84-29629 #
OUEL-1522/84 ..... 19 p3091 N84-29630 #

OWRT-A-030-WYO(1) ..... 03 p0403 N84-12633 #
OWRT-A-032-WYO(1) ..... 10 p1533 N84-20039 #
OWRT-A-046-FLA(1) ..... 05 p0698 N84-14580 #
OWRT-A-053-DEL(1) ..... 09 p1343 N84-18770 #
OWRT-A-054-SC(1) ..... 08 p1192 N84-17767 #
OWRT-A-058-LA(1) ..... 22 p3615 N84-32904 #
OWRT-A-058-LA(2) ..... 05 p0698 N84-14581 #
OWRT-A-063-IDA(2) ..... 01 p0112 N84-10730 #
OWRT-A-063-NDKA(1) ..... 01 p0039 N84-10248 #
OWRT-A-065-MD(1) ..... 22 p3628 N84-32987 #
OWRT-A-080-CAL(1) ..... 05 p0701 N84-14603 #
OWRT-A-086-ALA(1) ..... 04 p0496 N84-13257 #
OWRT-A-089-NEV(1) ..... 05 p0697 N84-14579 #
OWRT-A-091-CONN(1) ..... 20 p3257 N84-30674 #
OWRT-A-099-ARIZ(1) ..... 20 p3230 N84-30527 #
OWRT-A-108-ARIZ(1) ..... 08 p1179 N84-17684 #
OWRT-A-113-WASH(1) ..... 10 p1527 N84-20007 #
OWRT-A-125-NC(1) ..... 06 p0867 N84-15645 #
OWRT-A-132-MONT(1) ..... 01 p0110 N84-10714 #

OWRT-B-055-NDAK(1) ..... 01 p0039 N84-10247 #
OWRT-B-065-HI(1) ..... 04 p0517 N84-13394 #
OWRT-B-122-NEV(1) ..... 04 p0555 N84-13658 #

OWRT-C-00101-D(0447)(1) ..... 01 p0039 N84-10246 #
OWRT-C-00211-R(0529)(1) ..... 17 p2725 N84-27347 #
OWRT-C-00256-R(1436)(1) ..... 11 p1630 N84-20664 #
OWRT-C-10004-S(1449)(1) ..... 03 p0351 N84-12284 #
OWRT-C-10105-V(1466)(1) ..... 20 p3230 N84-30526 #
OWRT-C-80180-S(8527)(1) ..... 17 p2620 N84-26769 #

OWRT-S-021-ME(1) ..... 11 p1672 N84-20912 #

P-120 ..... 12 p1822 N84-21877* #
P-6961 ..... 18 p2802 N84-27780* #
P-6977 ..... 22 p3649 N84-33137 #

P/302112 ..... 05 p0694 N84-14555 #

PAL-84-32 ..... 22 p3633 N84-33020* #

PAM-156 ..... 01 p0133 N84-10873 #
PAM-186 ..... 09 p1331 N84-18690 #
PAM-212 ..... 15 p2398 N84-25392 #

PAR-83-1 ..... 04 p0604 N84-13987 #
PAR-84-13 ..... 20 p3266 N84-30725 #

PARGUM-2-83 ..... 05 p0681 N84-14477 #
PARGUM-83-02 ..... 05 p0649 N84-14266 #

PATR-1109-83-12 ..... 10 p1550 N84-20159 #

PA09746/RAS:R-9746 ..... 20 p3201 N84-30334* #

PB82-240945 ..... 04 p0583 N84-13852 #
PB83-139378 ..... 06 p0883 N84-15742 #
PB83-147421 ..... 06 p0898 N84-15833 #
PB83-147678 ..... 20 p3275 N84-30793 #
PB83-151207 ..... 05 p0748 N84-14913 #
PB83-156034 ..... 02 p0302 N84-11980
PB83-166751 ..... 06 p0903 N84-15864 #
PB83-166769 ..... 06 p0827 N84-15390 #
PB83-193771 ..... 01 p0161 N84-11059 #
PB83-195255 ..... 08 p1241 N84-18111 #
PB83-203984 ..... 01 p0165 N84-11080 #
PB83-204818 ..... 01 p0051 N84-10330 #
PB83-204883 ..... 01 p0164 N84-11074 #
PB83-205211 ..... 01 p0164 N84-11075 #
PB83-205518 ..... 01 p0058 N84-10379 #
PB83-205567 ..... 01 p0058 N84-10380 #
PB83-205971 ..... 01 p0058 N84-10381 #
PB83-207308 ..... 01 p0058 N84-10375 #
PB83-207464 ..... 01 p0058 N84-10376 #
PB83-207597 ..... 01 p0058 N84-10377 #
PB83-209155 ..... 01 p0039 N84-10245 #
PB83-210757 ..... 01 p0058 N84-10378 #
PB83-211201 ..... 01 p0160 N84-11053 #
PB83-213637 ..... 01 p0159 N84-11052 #
PB83-214106 ..... 01 p0159 N84-11050 #
PB83-214114 ..... 01 p0159 N84-11051 #
PB83-214684 ..... 01 p0163 N84-11072 #
PB83-214700 ..... 01 p0163 N84-11073 #
PB83-216234 ..... 01 p0166 N84-11089 #
PB83-216317 ..... 01 p0166 N84-11090 #
PB83-216911 ..... 06 p0862 N84-15618 #
PB83-217265 ..... 06 p0903 N84-15863 #
PB83-217273 ..... 06 p0831 N84-15410 #
PB83-217489 ..... 06 p0918 N84-15969 #
PB83-217568 ..... 06 p0826 N84-15389 #
PB83-219675 ..... 01 p0075 N84-10494 #
PB83-219758 ..... 01 p0101 N84-10655 #
PB83-220467 ..... 01 p0125 N84-10813 #
PB83-220483 ..... 01 p0111 N84-10722 #
PB83-220491 ..... 01 p0109 N84-10706 #
PB83-220764 ..... 01 p0068 N84-10446 #
PB83-221002 ..... 01 p0060 N84-10392 #
PB83-221051 ..... 01 p0109 N84-10709 #
PB83-221119 ..... 01 p0060 N84-10393 #
PB83-221127 ..... 01 p0060 N84-10394 #
PB83-221143 ..... 01 p0060 N84-10395 #
PB83-221168 ..... 01 p0060 N84-10396 #
PB83-221374 ..... 01 p0060 N84-10397 #
PB83-221713 ..... 01 p0112 N84-10730 #
PB83-221887 ..... 01 p0060 N84-10398 #
PB83-222281 ..... 01 p0106 N84-10690 #
PB83-222349 ..... 01 p0059 N84-10386 #
PB83-222489 ..... 01 p0166 N84-11091 #
PB83-222497 ..... 02 p0308 N84-12022 #
PB83-222562 ..... 01 p0006 N84-10040 #
PB83-222588 ..... 01 p0068 N84-10447 #
PB83-222604 ..... 01 p0109 N84-10710 #
PB83-222612 ..... 01 p0110 N84-10711 #
PB83-222703 ..... 03 p0359 N84-12332 #
PB83-222711 ..... 01 p0085 N84-10555 #
PB83-223057 ..... 01 p0039 N84-10246 #
PB83-223156 ..... 03 p0460 N84-13029 #
PB83-223164 ..... 03 p0460 N84-13028 #
PB83-223172 ..... 01 p0115 N84-10748 #
PB83-223206 ..... 01 p0058 N84-10382 #
PB83-223214 ..... 01 p0059 N84-10383 #
PB83-223297 ..... 01 p0059 N84-10388 #
PB83-224014 ..... 01 p0005 N84-10556 #
PB83-224063 ..... 05 p0760 N84-14985 #
PB83-224071 ..... 01 p0083 N84-10537 #
PB83-224121 ..... 01 p0086 N84-10559 #
PB83-224204 ..... 01 p0039 N84-10247 #
PB83-224360 ..... 01 p0115 N84-10749 #
PB83-224576 ..... 01 p0164 N84-11076 #
PB83-224824 ..... 01 p0059 N84-10389 #
PB83-224832 ..... 01 p0059 N84-10390 #
PB83-224840 ..... 01 p0061 N84-10399 #
PB83-224857 ..... 01 p0110 N84-10713 #
PB83-225177 ..... 01 p0157 N84-11033 #
PB83-225375 ..... 01 p0115 N84-10746 #
PB83-225409 ..... 06 p0802 N84-15228 #
PB83-225722 ..... 01 p0110 N84-10712 #
PB83-225763 ..... 01 p0059 N84-10385 #
PB83-225870 ..... 01 p0086 N84-10558 #
PB83-226340 ..... 01 p0047 N84-10303 #
PB83-226563 ..... 01 p0061 N84-10400 #
PB83-226621 ..... 01 p0114 N84-10742 #
PB83-226639 ..... 01 p0156 N84-11029 #
PB83-226647 ..... 01 p0156 N84-11030 #
PB83-226670 ..... 01 p0160 N84-11056 #
PB83-226704 ..... 01 p0160 N84-11055 #
PB83-226761 ..... 01 p0135 N84-10887 #
PB83-226852 ..... 01 p0110 N84-10714 #
PB83-226928 ..... 01 p0039 N84-10248 #
PB83-226936 ..... 01 p0135 N84-10886 #
PB83-226944 ..... 01 p0135 N84-10885 #
PB83-227041 ..... 01 p0060 N84-10391 #
PB83-227207 ..... 01 p0103 N84-10669 #
PB83-227231 ..... 01 p0126 N84-10825 #
PB83-227249 ..... 01 p0126 N84-10824 #
PB83-227256 ..... 01 p0126 N84-10823 #
PB83-227264 ..... 01 p0126 N84-10822 #
PB83-227272 ..... 01 p0126 N84-10821 #
PB83-227280 ..... 01 p0126 N84-10820 #
PB83-227298 ..... 01 p0126 N84-10819 #
PB83-227306 ..... 01 p0125 N84-10818 #
PB83-227314 ..... 01 p0135 N84-10884 #
PB83-227330 ..... 01 p0160 N84-11054 #
PB83-228122 ..... 01 p0125 N84-10817 #
PB83-228130 ..... 01 p0125 N84-10816 #
PB83-228148 ..... 01 p0125 N84-10814 #
PB83-228171 ..... 01 p0125 N84-10815 #

PB83-228213 ..... 01 p0160 N84-11057 #
PB83-228361 ..... 01 p0086 N84-10557 #
PB83-228379 ..... 01 p0054 N84-10347 #
PB83-228403 ..... 01 p0157 N84-11031 #
PB83-228429 ..... 01 p0059 N84-10384 #
PB83-228460 ..... 01 p0008 N84-10048 #
PB83-228502 ..... 01 p0092 N84-10598 #
PB83-228544 ..... 02 p0305 N84-12005 #
PB83-228551 ..... 01 p0165 N84-11081 #
PB83-228569 ..... 01 p0127 N84-10830 #
PB83-228951 ..... 01 p0137 N84-10901 #
PB83-229013 ..... 01 p0103 N84-10672 #
PB83-229476 ..... 02 p0222 N84-11455 #
PB83-229591 ..... 01 p0115 N84-10747 #
PB83-230870 ..... 02 p0302 N84-11979 #
PB83-231068 ..... 01 p0110 N84-10715 #
PB83-231076 ..... 01 p0002 N84-10012 #
PB83-231209 ..... 01 p0115 N84-10743 #
PB83-231324 ..... 01 p0106 N84-10691 #
PB83-231357 ..... 01 p0115 N84-10744 #
PB83-231662 ..... 01 p0101 N84-10656 #
PB83-232074 ..... 01 p0051 N84-10331 #
PB83-232090 ..... 06 p0802 N84-15229 #
PB83-232106 ..... 01 p0115 N84-10745 #
PB83-232173 ..... 01 p0110 N84-10716 #
PB83-232744 ..... 01 p0092 N84-10599 #
PB83-232627 ..... 01 p0101 N84-10657 #
PB83-233023 ..... 01 p0110 N84-10717 #
PB83-233072 ..... 02 p0275 N84-11803 #
PB83-233205 ..... 02 p0275 N84-11802 #
PB83-233213 ..... 02 p0275 N84-11801 #
PB83-233247 ..... 01 p0127 N84-10828 #
PB83-233254 ..... 01 p0127 N84-10827 #
PB83-233262 ..... 02 p0275 N84-11800 #
PB83-233270 ..... 01 p0112 N84-10731 #
PB83-233452 ..... 01 p0119 N84-10776 #
PB83-233460 ..... 01 p0126 N84-10826 #
PB83-233478 ..... 01 p0127 N84-10829 #
PB83-233486 ..... 02 p0275 N84-11799 #
PB83-233718 ..... 02 p0276 N84-11811 #
PB83-233726 ..... 03 p0378 N84-12460 #
PB83-233742 ..... 02 p0217 N84-11420 #
PB83-233981 ..... 02 p0276 N84-11810 #
PB83-233999 ..... 02 p0212 N84-11384 #
PB83-234047 ..... 02 p0230 N84-11507 #
PB83-234781 ..... 03 p0460 N84-13027 #
PB83-234922 ..... 03 p0378 N84-12461 #
PB83-234955 ..... 01 p0163 N84-11068 #
PB83-235564 ..... 03 p0385 N84-12506 #
PB83-235671 ..... 02 p0192 N84-11247 #
PB83-236091 ..... 01 p0047 N84-10302 #
PB83-236919 ..... 03 p0386 N84-12518 #
PB83-237107 ..... 03 p0458 N84-13016 #
PB83-237263 ..... 02 p0257 N84-11680 #
PB83-237271 ..... 02 p0276 N84-11809 #
PB83-237297 ..... 02 p0211 N84-11382* #
PB83-237388 ..... 02 p0267 N84-11755 #
PB83-237396 ..... 02 p0276 N84-11808 #
PB83-237412 ..... 02 p0276 N84-11807 #
PB83-237453 ..... 02 p0241 N84-11577 #
PB83-237487 ..... 04 p0539 N84-13546 #
PB83-237834 ..... 02 p0301 N84-11978 #
PB83-238196 ..... 02 p0192 N84-11249 #
PB83-238204 ..... 04 p0516 N84-13389 #
PB83-238345 ..... 03 p0363 N84-12365 #
PB83-238600 ..... 03 p0423 N84-12766 #
PB83-238766 ..... 02 p0273 N84-11788 #
PB83-238972 ..... 02 p0271 N84-11772 #
PB83-239012 ..... 02 p0245 N84-11604 #
PB83-239053 ..... 03 p0359 N84-12333 #
PB83-239103 ..... 03 p0402 N84-12631 #
PB83-239152 ..... 02 p0198 N84-11291 #
PB83-239459 ..... 03 p0385 N84-12507 #
PB83-239574 ..... 03 p0386 N84-12517 #
PB83-239582 ..... 04 p0516 N84-13390 #
PB83-239624 ..... 03 p0422 N84-12757 #
PB83-239723 ..... 02 p0265 N84-11743 #
PB83-239731 ..... 02 p0267 N84-11754 #
PB83-240424 ..... 04 p0539 N84-13547 #
PB83-240598 ..... 02 p0198 N84-11290 #
PB83-240614 ..... 02 p0211 N84-11383 #
PB83-240630 ..... 02 p0211 N84-11381 #
PB83-240838 ..... 02 p0276 N84-11804 #
PB83-240960 ..... 02 p0202 N84-11317 #
PB83-240962 ..... 04 p0583 N84-13853 #
PB83-241075 ..... 04 p0583 N84-13854 #
PB83-241141 ..... 03 p0363 N84-12364 #
PB83-241158 ..... 03 p0369 N84-12405 #
PB83-241471 ..... 03 p0363 N84-12366 #
PB83-241489 ..... 02 p0257 N84-11681 #
PB83-241513 ..... 04 p0584 N84-13855 #
PB83-241521 ..... 03 p0422 N84-12758 #
PB83-241539 ..... 03 p0422 N84-12759 #
PB83-241547 ..... 03 p0422 N84-12760 #
PB83-241588 ..... 03 p0422 N84-12761 #
PB83-241596 ..... 04 p0583 N84-13851 #
PB83-241620 ..... 02 p0230 N84-11506 #
PB83-241935 ..... 02 p0276 N84-11806 #
PB83-241943 ..... 02 p0276 N84-11805 #
PB83-242040 ..... 02 p0303 N84-11987 #
PB83-242230 ..... 03 p0460 N84-13026 #
PB83-242271 ..... 03 p0402 N84-12632 #
PB83-243147 ..... 03 p0403 N84-12633 #
PB83-243170 ..... 03 p0351 N84-12284 #
PB83-243394 ..... 03 p0414 N84-12711 #
PB83-243410 ..... 03 p0422 N84-12762 #
PB83-243428 ..... 03 p0422 N84-12763 #
PB83-243626 ..... 03 p0359 N84-12334 #
PB83-243634 ..... 04 p0516 N84-13392 #
PB83-243923 ..... 02 p0198 N84-11289 #
PB83-243931 ..... 02 p0202 N84-11316 #
PB83-243949 ..... 02 p0192 N84-11248 #
PB83-243972 ..... 02 p0251 N84-11643 #
PB83-244004 ..... 02 p0251 N84-11644 #
PB83-244012 ..... 03 p0358 N84-12328 #
PB83-245043 ..... 04 p0523 N84-13442 #
PB83-245829 ..... 04 p0505 N84-13308 #
PB83-246116 ..... 04 p0573 N84-13775 #
PB83-246132 ..... 04 p0573 N84-13774 #
PB83-246801 ..... 03 p0412 N84-12699 #
PB83-247411 ..... 04 p0560 N84-13694 #
PB83-247734 ..... 03 p0422 N84-12764 #
PB83-247742 ..... 03 p0423 N84-12765 #
PB83-247981 ..... 04 p0516 N84-13391 #
PB83-248369 ..... 04 p0517 N84-13394 #
PB83-248690 ..... 04 p0565 N84-13726 #
PB83-248708 ..... 04 p0556 N84-13661 #
PB83-248773 ..... 03 p0412 N84-12700 #
PB83-248807 ..... 04 p0556 N84-13659 #
PB83-248815 ..... 04 p0574 N84-13780 #
PB83-248823 ..... 04 p0570 N84-13753 #
PB83-249375 ..... 04 p0556 N84-13660 #
PB83-249441 ..... 03 p0457 N84-13008 #
PB83-249490 ..... 03 p0358 N84-12329 #
PB83-249664 ..... 04 p0496 N84-13257 #
PB83-249698 ..... 04 p0555 N84-13658 #
PB83-249714 ..... 04 p0584 N84-13856 #
PB83-249730 ..... 04 p0565 N84-13724 #
PB83-249763 ..... 04 p0556 N84-13664 #
PB83-249789 ..... 04 p0496 N84-13256 #
PB83-249904 ..... 04 p0568 N84-13746 #
PB83-249961 ..... 04 p0556 N84-13668 #
PB83-249987 ..... 04 p0550 N84-13623 #
PB83-249995 ..... 04 p0556 N84-13665 #
PB83-250019 ..... 04 p0617 N84-14070 #
PB83-250100 ..... 04 p0545 N84-13593 #
PB83-250191 ..... 04 p0561 N84-13698 #
PB83-250308 ..... 04 p0561 N84-13699 #
PB83-250415 ..... 04 p0557 N84-13674* #
PB83-250464 ..... 04 p0574 N84-13779 #
PB83-250522 ..... 04 p0596 N84-13931 #
PB83-250589 ..... 04 p0574 N84-13782 #
PB83-250753 ..... 04 p0556 N84-13666 #
PB83-250779 ..... 05 p0701 N84-14602 #
PB83-250852 ..... 04 p0555 N84-13656 #
PB83-251009 ..... 04 p0561 N84-13696 #
PB83-251124 ..... 04 p0556 N84-13669 #
PB83-251140 ..... 04 p0565 N84-13725 #
PB83-251157 ..... 04 p0556 N84-13667 #
PB83-251215 ..... 04 p0516 N84-13393 #
PB83-251314 ..... 04 p0556 N84-13662 #
PB83-251330 ..... 05 p0694 N84-14556 #
PB83-251348 ..... 04 p0555 N84-13657 #
PB83-251348 ..... 04 p0584 N84-13857 #
PB83-251363 ..... 05 p0746 N84-14898 #
PB83-251447 ..... 04 p0517 N84-13395 #
PB83-251454 ..... 05 p0671 N84-14412 #
PB83-251637 ..... 18 p2929 N84-28572 #
PB83-252254 ..... 05 p0664 N84-14362 #
PB83-252452 ..... 05 p0710 N84-14653 #
PB83-252460 ..... 04 p0478 N84-13147 #
PB83-252510 ..... 04 p0568 N84-13747 #
PB83-252734 ..... 05 p0698 N84-14582 #
PB83-252759 ..... 04 p0556 N84-13663 #
PB83-252825 ..... 04 p0561 N84-13697 #
PB83-252908 ..... 04 p0568 N84-13745 #
PB83-252932 ..... 04 p0569 N84-13748 #
PB83-252973 ..... 05 p0694 N84-14557 #
PB83-253013 ..... 05 p0709 N84-14648 #
PB83-253245 ..... 05 p0664 N84-14363 #
PB83-253278 ..... 05 p0710 N84-14649 #
PB83-253344 ..... 05 p0697 N84-14579 #
PB83-253351 ..... 05 p0698 N84-14580 #
PB83-253435 ..... 07 p1093 N84-17107 #
PB83-253443 ..... 05 p0765 N84-15018 #
PB83-254805 ..... 04 p0584 N84-13858 #
PB83-254813 ..... 04 p0584 N84-13859 #
PB83-254912 ..... 03 p0409 N84-12677 #
PB83-255166 ..... 05 p0711 N84-14660 #
PB83-255414 ..... 05 p0682 N84-14482 #
PB83-255521 ..... 05 p0701 N84-14603 #
PB83-256594 ..... 05 p0758 N84-14972 #

PB83-256602 ..... 05 p0758 N84-14971 #
PB83-256610 ..... 05 p0758 N84-14970 #
PB83-256750 ..... 06 p0867 N84-15645 #
PB83-256818 ..... 17 p2735 N84-27383 #
PB83-257139 ..... 05 p0710 N84-14650 #
PB83-257618 ..... 06 p0896 N84-15820 #
PB83-257998 ..... 05 p0720 N84-14723 #
PB83-259598 ..... 05 p0682 N84-14484 #
PB83-259630 ..... 05 p0657 N84-14320 #
PB83-259648 ..... 05 p0714 N84-14679 #
PB83-259739 ..... 05 p0682 N84-14483 #
PB83-261123 ..... 05 p0714 N84-14678 #
PB83-261669 ..... 04 p0560 N84-13695 #
PB83-262378 ..... 05 p0720 N84-14722 #
PB83-262550 ..... 05 p0714 N84-14680 #
PB83-263236 ..... 19 p3053 N84-29373 #
PB83-263392 ..... 05 p0720 N84-14721 #
PB83-263624 ..... 05 p0731 N84-14797 #
PB83-263632 ..... 05 p0731 N84-14798 #
PB83-263640 ..... 05 p0731 N84-14799 #
PB83-263764 ..... 05 p0677 N84-14454 #
PB83-263996 ..... 05 p0710 N84-14651 #
PB83-264002 ..... 05 p0710 N84-14652 #
PB83-265041 ..... 05 p0698 N84-14581 #
PB83-910403 ..... 01 p0006 N84-10036 #
PB83-910405 ..... 04 p0482 N84-13169 #
PB83-910406 ..... 11 p1603 N84-20500 #
PB83-910407 ..... 04 p0481 N84-13168 #
PB83-917004 ..... 03 p0328 N84-12142 #
PB84-100015 ..... 19 p3115 N84-29793 #
PB84-100122 ..... 08 p1198 N84-17808 #
PB84-100155 ..... 08 p1127 N84-17326 #
PB84-100171 ..... 08 p1204 N84-17850 #
PB84-100270 ..... 08 p1193 N84-17780 #
PB84-100445 ..... 08 p1127 N84-17331 #
PB84-100486 ..... 08 p1246 N84-18144 #
PB84-100494 ..... 08 p1246 N84-18145 #
PB84-100650 ..... 08 p1241 N84-18112 #
PB84-100668 ..... 10 p1538 N84-20078 #
PB84-100734 ..... 08 p1238 N84-18095 #
PB84-100742 ..... 08 p1239 N84-18096 #
PB84-100874 ..... 08 p1196 N84-17800 #
PB84-100882 ..... 08 p1136 N84-17385 #
PB84-100908 ..... 08 p1196 N84-17801 #
PB84-100916 ..... 08 p1189 N84-17748 #
PB84-100932 ..... 08 p1128 N84-17333 #
PB84-100940 ..... 08 p1128 N84-17332 #
PB84-101021 ..... 08 p1172 N84-17637 #
PB84-101153 ..... 08 p1101 N84-17162 #
PB84-101161 ..... 08 p1188 N84-17744 #
PB84-101336 ..... 08 p1127 N84-17327 #
PB84-101435 ..... 08 p1139 N84-17405 #
PB84-101443 ..... 08 p1189 N84-17745 #
PB84-101591 ..... 08 p1148 N84-17472 #
PB84-101948 ..... 08 p1153 N84-17510 #
PB84-102144 ..... 08 p1214 N84-17922 #
PB84-102540 ..... 08 p1202 N84-17835 #
PB84-102615 ..... 08 p1142 N84-17427 #
PB84-102706 ..... 08 p1214 N84-17923 #
PB84-102714 ..... 08 p1215 N84-17924 #
PB84-102920 ..... 08 p1184 N84-17711 #
PB84-102946 ..... 08 p1206 N84-17865 #
PB84-102953 ..... 08 p1206 N84-17866 #
PB84-102961 ..... 08 p1206 N84-17867 #
PB84-102979 ..... 08 p1207 N84-17868 #
PB84-102987 ..... 08 p1207 N84-17869 #
PB84-103076 ..... 08 p1239 N84-18097 #
PB84-103084 ..... 08 p1189 N84-17749 #
PB84-103266 ..... 08 p1198 N84-17809 #
PB84-103829 ..... 08 p1167 N84-17599 #
PB84-104066 ..... 08 p1193 N84-17779 #
PB84-104074 ..... 08 p1193 N84-17778 #
PB84-104223 ..... 08 p1148 N84-17473 #
PB84-104272 ..... 08 p1148 N84-17475 #
PB84-104314 ..... 10 p1543 N84-20112 #
PB84-104322 ..... 08 p1192 N84-17766 #
PB84-104363 ..... 08 p1188 N84-17742 #
PB84-104371 ..... 08 p1193 N84-17777 #
PB84-104454 ..... 08 p1173 N84-17639 #
PB84-104504 ..... 08 p1241 N84-18113 #
PB84-104785 ..... 08 p1183 N84-17708 #
PB84-104793 ..... 08 p1184 N84-17710 #
PB84-104801 ..... 08 p1183 N84-17709 #
PB84-104892 ..... 08 p1198 N84-17810 #
PB84-104942 ..... 08 p1168 N84-17608 #
PB84-105089 ..... 08 p1172 N84-17636 #
PB84-105303 ..... 08 p1160 N84-17554 #
PB84-105568 ..... 08 p1192 N84-17767 #
PB84-105816 ..... 08 p1192 N84-17768 #
PB84-105832 ..... 08 p1192 N84-17769 #
PB84-106756 ..... 08 p1192 N84-17770 #
PB84-107911 ..... 08 p1194 N84-17782 #
PB84-108166 ..... 08 p1188 N84-17743 #
PB84-108349 ..... 08 p1193 N84-17781 #
PB84-108356 ..... 08 p1192 N84-17771 #
PB84-109057 ..... 08 p1172 N84-17635 #
PB84-109669 ..... 08 p1165 N84-17587 #
PB84-109867 ..... 08 p1163 N84-17570 #
PB84-109883 ..... 08 p1127 N84-17325 #
PB84-109891 ..... 08 p1153 N84-17509 #
PB84-109909 ..... 08 p1142 N84-17426 #
PB84-110493 ..... 08 p1136 N84-17384* #
PB84-110808 ..... 08 p1179 N84-17684 #
PB84-110964 ..... 09 p1390 N84-19082 #
PB84-110998 ..... 08 p1141 N84-17425 #
PB84-111160 ..... 09 p1297 N84-18479 #
PB84-111210 ..... 08 p1147 N84-17468 #
PB84-111244 ..... 08 p1192 N84-17773 #
PB84-111400 ..... 08 p1147 N84-17467 #
PB84-111970 ..... 09 p1319 N84-18614 #
PB84-112267 ..... 08 p1214 N84-17921 #
PB84-112390 ..... 09 p1337 N84-18734 #
PB84-112408 ..... 09 p1338 N84-18735 #
PB84-112648 ..... 08 p1126 N84-17324 #
PB84-112812 ..... 09 p1297 N84-18482 #
PB84-112895 ..... 08 p1202 N84-17834 #
PB84-113513 ..... 09 p1370 N84-18944 #
PB84-113893 ..... 08 p1214 N84-17920 #
PB84-113901 ..... 08 p1214 N84-17919 #
PB84-114099 ..... 08 p1192 N84-17772 #
PB84-114198 ..... 09 p1339 N84-18744 #
PB84-114529 ..... 08 p1210 N84-17892 #
PB84-114545 ..... 09 p1339 N84-18745 #
PB84-114701 ..... 09 p1339 N84-18746 #
PB84-114990 ..... 09 p1339 N84-18747 #
PB84-115021 ..... 11 p1753 N84-21446 #
PB84-115062 ..... 09 p1343 N84-18771 #
PB84-115120 ..... 08 p1148 N84-17471 #
PB84-115633 ..... 09 p1319 N84-18615 #
PB84-115799 ..... 08 p1127 N84-17328 #
PB84-115849 ..... 08 p1163 N84-17571 #
PB84-115997 ..... 10 p1532 N84-20035 #
PB84-116003 ..... 10 p1532 N84-20037 #
PB84-116011 ..... 09 p1319 N84-18616 #
PB84-116086 ..... 09 p1260 N84-18223 #
PB84-116383 ..... 08 p1148 N84-17474 #
PB84-116573 ..... 09 p1417 N84-19270 #
PB84-116581 ..... 09 p1417 N84-19271 #
PB84-116607 ..... 09 p1326 N84-18663 #
PB84-117167 ..... 09 p1417 N84-19272* #
PB84-117175 ..... 09 p1339 N84-18748 #
PB84-117506 ..... 09 p1339 N84-18749 #
PB84-118314 ..... 09 p1370 N84-18945 #
PB84-118348 ..... 09 p1350 N84-18819 #
PB84-118470 ..... 09 p1338 N84-18740 #
PB84-118488 ..... 09 p1338 N84-18741 #
PB84-118496 ..... 09 p1343 N84-18772 #
PB84-118546 ..... 09 p1339 N84-18750 #
PB84-118553 ..... 09 p1340 N84-18751 #
PB84-118561 ..... 09 p1340 N84-18752 #
PB84-118934 ..... 08 p1147 N84-17469 #
PB84-119130 ..... 09 p1350 N84-18820 #
PB84-119288 ..... 09 p1335 N84-18714 #
PB84-119445 ..... 08 p1189 N84-17746 #
PB84-119460 ..... 09 p1336 N84-18722 #
PB84-119494 ..... 09 p1319 N84-18617 #
PB84-119536 ..... 09 p1339 N84-18742 #
PB84-119544 ..... 10 p1527 N84-20003 #
PB84-119569 ..... 09 p1340 N84-18753 #
PB84-119676 ..... 09 p1297 N84-18480 #
PB84-119700 ..... 08 p1173 N84-17638 #
PB84-119726 ..... 09 p1338 N84-18736 #
PB84-119734 ..... 09 p1338 N84-18737 #
PB84-119890 ..... 08 p1193 N84-17774 #
PB84-119924 ..... 09 p1346 N84-18795 #
PB84-120039 ..... 11 p1750 N84-21424 #
PB84-120047 ..... 09 p1405 N84-19181 #
PB84-120112 ..... 09 p1338 N84-18738 #
PB84-120120 ..... 09 p1338 N84-18739 #
PB84-120138 ..... 10 p1527 N84-20004 #
PB84-120146 ..... 09 p1339 N84-18743 #
PB84-120161 ..... 09 p1340 N84-18754 #
PB84-120385 ..... 09 p1340 N84-18755 #
PB84-120484 ..... 09 p1340 N84-18756 #
PB84-120716 ..... 09 p1291 N84-18426 #
PB84-120815 ..... 09 p1350 N84-18822 #
PB84-120849 ..... 09 p1343 N84-18770 #
PB84-121060 ..... 09 p1350 N84-18821 #
PB84-121599 ..... 08 p1103 N84-17170 #
PB84-122167 ..... 08 p1184 N84-17714 #
PB84-122472 ..... 08 p1120 N84-17286 #
PB84-122621 ..... 08 p1215 N84-17925 #
PB84-122639 ..... 08 p1193 N84-17776 #
PB84-122662 ..... 08 p1197 N84-17802 #
PB84-122704 ..... 08 p1127 N84-17329 #
PB84-122910 ..... 08 p1184 N84-17713 #
PB84-122969 ..... 11 p1648 N84-20774 #
PB84-123116 ..... 08 p1148 N84-17470 #
PB84-123165 ..... 09 p1297 N84-18481 #
PB84-123348 ..... 10 p1473 N84-19618 #
PB84-123413 ..... 10 p1532 N84-20036 #
PB84-123538 ..... 09 p1289 N84-18417 #

PB84-123645 ..... 10 p1484 N84-19702 #
PB84-124064 ..... 08 p1105 N84-17187 #
PB84-124734 ..... 09 p1379 N84-19013 #
PB84-124742 ..... 09 p1379 N84-19014 #
PB84-125095 ..... 10 p1538 N84-20076 #
PB84-125210 ..... 09 p1319 N84-18619 #
PB84-125228 ..... 08 p1127 N84-17330 #
PB84-125236 ..... 10 p1473 N84-19619 #
PB84-125285 ..... 09 p1326 N84-18664 #
PB84-125293 ..... 08 p1139 N84-17406 #
PB84-125541 ..... 08 p1167 N84-17598 #
PB84-125764 ..... 08 p1163 N84-17572 #
PB84-125913 ..... 09 p1417 N84-19273 #
PB84-125921 ..... 09 p1417 N84-19274 #
PB84-126333 ..... 09 p1277 N84-18336 #
PB84-126788 ..... 11 p1676 N84-20939 #
PB84-126952 ..... 08 p1180 N84-17685 #
PB84-126960 ..... 08 p1189 N84-17750 #
PB84-127034 ..... 09 p1286 N84-18396 #
PB84-127125 ..... 10 p1538 N84-20077 #
PB84-127323 ..... 08 p1096 N84-17124 #
PB84-127430 ..... 09 p1305 N84-18530 #
PB84-127448 ..... 09 p1380 N84-19015 #
PB84-127463 ..... 10 p1541 N84-20099 #
PB84-127521 ..... 08 p1193 N84-17775 #
PB84-127539 ..... 09 p1351 N84-18826 #
PB84-127620 ..... 09 p1305 N84-18531 #
PB84-127695 ..... 09 p1405 N84-19183 #
PB84-127703 ..... 09 p1405 N84-19184 #
PB84-127869 ..... 09 p1324 N84-18649 #
PB84-127919 ..... 08 p1189 N84-17747 #
PB84-127935 ..... 09 p1380 N84-19016 #
PB84-127943 ..... 09 p1384 N84-19040 #
PB84-127976 ..... 10 p1537 N84-20074 #
PB84-128081 ..... 09 p1370 N84-18946 #
PB84-128313 ..... 08 p1184 N84-17712 #
PB84-128404 ..... 10 p1484 N84-19703 #
PB84-128446 ..... 09 p1370 N84-18947 #
PB84-128479 ..... 09 p1370 N84-18948 #
PB84-128487 ..... 09 p1370 N84-18949 #
PB84-128495 ..... 09 p1370 N84-18950 #
PB84-128503 ..... 09 p1371 N84-18951 #
PB84-128933 ..... 10 p1538 N84-20075 #
PB84-128951 ..... 09 p1371 N84-18952 #
PB84-128958 ..... 09 p1335 N84-18715 #
PB84-129303 ..... 10 p1541 N84-20098 #
PB84-129402 ..... 09 p1305 N84-18532 #
PB84-129568 ..... 10 p1531 N84-20027 #
PB84-129733 ..... 09 p1351 N84-18825 #
PB84-129766 ..... 11 p1672 N84-20913 #
PB84-129774 ..... 09 p1291 N84-18427 #
PB84-129808 ..... 09 p1291 N84-18428 #
PB84-129873 ..... 11 p1747 N84-21398 #
PB84-130418 ..... 11 p1676 N84-20940 #
PB84-130475 ..... 09 p1319 N84-18618 #
PB84-130491 ..... 10 p1533 N84-20038 #
PB84-131309 ..... 09 p1350 N84-18824 #
PB84-131333 ..... 10 p1469 N84-19594 #
PB84-131697 ..... 09 p1350 N84-18823 #
PB84-132075 ..... 10 p1527 N84-20005 #
PB84-132299 ..... 10 p1548 N84-20148 #
PB84-132521 ..... 10 p1533 N84-20039 #
PB84-132570 ..... 09 p1291 N84-18429 #
PB84-133115 ..... 10 p1541 N84-20100 #
PB84-133271 ..... 10 p1527 N84-20006 #
PB84-133651 ..... 10 p1527 N84-20007 #
PB84-134345 ..... 10 p1427 N84-19331 #
PB84-134402 ..... 10 p1427 N84-19332 #
PB84-134485 ..... 11 p1661 N84-20839 #
PB84-134592 ..... 10 p1496 N84-19781 #
PB84-134634 ..... 11 p1648 N84-20775 #
PB84-134758 ..... 10 p1557 N84-20204 #
PB84-134782 ..... 10 p1464 N84-19562 #
PB84-134790 ..... 11 p1641 N84-20731 #
PB84-135458 ..... 10 p1469 N84-19595 #
PB84-135722 ..... 11 p1639 N84-20715 #
PB84-135821 ..... 11 p1661 N84-20840 #
PB84-135854 ..... 10 p1541 N84-20101 #
PB84-136175 ..... 08 p1132 N84-17363 #
PB84-136191 ..... 10 p1557 N84-20205 #
PB84-136506 ..... 10 p1541 N84-20102 #
PB84-136589 ..... 10 p1528 N84-20008 #
PB84-137199 ..... 10 p1558 N84-20206 #
PB84-137215 ..... 10 p1528 N84-20009 #
PB84-137223 ..... 11 p1710 N84-21150 #
PB84-137256 ..... 11 p1705 N84-21114 #
PB84-137264 ..... 11 p1705 N84-21113 #
PB84-137322 ..... 11 p1705 N84-21115 #
PB84-137421 ..... 10 p1565 N84-20256 #
PB84-137538 ..... 11 p1756 N84-21466 #
PB84-137587 ..... 11 p1760 N84-21484 #
PB84-137918 ..... 11 p1669 N84-20890 #
PB84-137926 ..... 10 p1518 N84-19941 #
PB84-138213 ..... 11 p1710 N84-21148 #
PB84-138726 ..... 10 p1542 N84-20103 #
PB84-138759 ..... 11 p1692 N84-21036 #
PB84-138825 ..... 11 p1705 N84-21116 #
PB84-138841 ..... 11 p1683 N84-20985 #
PB84-138940 ..... 11 p1677 N84-20941 #
PB84-138999 ..... 10 p1542 N84-20104 #
PB84-139765 ..... 11 p1710 N84-21149 #
PB84-140110 ..... 11 p1645 N84-20756 #
PB84-140235 ..... 10 p1565 N84-20257 #
PB84-140334 ..... 11 p1672 N84-20911 #
PB84-140359 ..... 12 p1923 N84-22526 #
PB84-140367 ..... 11 p1760 N84-21483 #
PB84-140557 ..... 11 p1630 N84-20664 #
PB84-140573 ..... 11 p1672 N84-20912 #
PB84-140714 ..... 11 p1710 N84-21151 #
PB84-140870 ..... 11 p1630 N84-20665 #
PB84-141233 ..... 11 p1711 N84-21152 #
PB84-141258 ..... 11 p1711 N84-21153 #
PB84-141381 ..... 11 p1692 N84-21037 #
PB84-141787 ..... 11 p1638 N84-20709 #
PB84-142033 ..... 12 p1767 N84-21526 #
PB84-143270 ..... 12 p1804 N84-21762 #
PB84-143296 ..... 12 p1799 N84-21735 #
PB84-143494 ..... 11 p1645 N84-20754 #
PB84-143502 ..... 11 p1645 N84-20755 #
PB84-143577 ..... 12 p1921 N84-22514 #
PB84-143627 ..... 11 p1688 N84-21012 #
PB84-143643 ..... 11 p1638 N84-20710 #
PB84-144260 ..... 12 p1804 N84-21765 #
PB84-144856 ..... 12 p1804 N84-21763 #
PB84-145119 ..... 12 p1804 N84-21764 #
PB84-145572 ..... 14 p2208 N84-24256 #
PB84-145580 ..... 12 p1794 N84-21703 #
PB84-145648 ..... 12 p1845 N84-22026 #
PB84-145895 ..... 12 p1862 N84-22131 #
PB84-145903 ..... 12 p1862 N84-22132 #
PB84-145911 ..... 12 p1862 N84-22133 #
PB84-145961 ..... 12 p1810 N84-21802 #
PB84-146125 ..... 12 p1866 N84-22161 #
PB84-147438 ..... 12 p1846 N84-22032 #
PB84-147479 ..... 12 p1862 N84-22134 #
PB84-148055 ..... 12 p1823 N84-21888 #
PB84-148196 ..... 12 p1863 N84-22140 #
PB84-148345 ..... 12 p1845 N84-22031 #
PB84-148568 ..... 15 p2365 N84-25191 #
PB84-148576 ..... 12 p1862 N84-22135 #
PB84-148790 ..... 15 p2374 N84-25245 #
PB84-149228 ..... 12 p1885 N84-22288 #
PB84-149236 ..... 12 p1886 N84-22298 #
PB84-149251 ..... 12 p1885 N84-22289 #
PB84-149327 ..... 12 p1885 N84-22290 #
PB84-149806 ..... 12 p1885 N84-22291 #
PB84-149913 ..... 12 p1885 N84-22292 #
PB84-149921 ..... 14 p2177 N84-24039 #
PB84-149996 ..... 14 p2149 N84-23876 #
PB84-150010 ..... 12 p1886 N84-22293 #
PB84-150168 ..... 14 p2177 N84-24040 #
PB84-150184 ..... 14 p2204 N84-24227 #
PB84-150218 ..... 14 p2206 N84-24240 #
PB84-150226 ..... 12 p1886 N84-22294 #
PB84-150366 ..... 12 p1863 N84-22136 #
PB84-150630 ..... 12 p1837 N84-21976 #
PB84-150663 ..... 14 p2130 N84-23772 #
PB84-150689 ..... 12 p1886 N84-22295 #
PB84-151265 ..... 12 p1886 N84-22296 #
PB84-151273 ..... 12 p1886 N84-22297 #
PB84-151307 ..... 14 p2177 N84-24041 #
PB84-151323 ..... 14 p2133 N84-23782 #
PB84-151489 ..... 14 p2180 N84-24058 #
PB84-151646 ..... 14 p2141 N84-23838 #
PB84-151653 ..... 14 p2135 N84-23795 #
PB84-152024 ..... 14 p2133 N84-23781 #
PB84-152081 ..... 12 p1863 N84-22137 #
PB84-152545 ..... 14 p2204 N84-24228 #
PB84-152578 ..... 14 p2159 N84-23933 #
PB84-152586 ..... 14 p2141 N84-23839 #
PB84-152677 ..... 14 p2204 N84-24229 #
PB84-152933 ..... 14 p2129 N84-23763 #
PB84-153162 ..... 14 p2173 N84-24016 #
PB84-153501 ..... 17 p2620 N84-26769 #
PB84-153543 ..... 17 p2725 N84-27347 #
PB84-153907 ..... 14 p2135 N84-23796 #
PB84-154244 ..... 14 p2183 N84-24083 #
PB84-154301 ..... 14 p2100 N84-23602 #
PB84-154335 ..... 14 p2183 N84-24084 #
PB84-154780 ..... 17 p2723 N84-27332 #
PB84-154814 ..... 14 p2180 N84-24059 #
PB84-154822 ..... 14 p2180 N84-24060 #
PB84-154913 ..... 15 p2419 N84-25525 #
PB84-155134 ..... 14 p2207 N84-24248 #
PB84-155175 ..... 17 p2723 N84-27334 #
PB84-155191 ..... 14 p2244 N84-24475 #
PB84-155241 ..... 14 p2180 N84-24061 #
PB84-155290 ..... 14 p2223 N84-24342 #
PB84-155514 ..... 14 p2180 N84-24062 #
PB84-155571 ..... 17 p2654 N84-26977 #
PB84-155613 ..... 14 p2135 N84-23798 #
PB84-155738 ..... 17 p2605 N84-26692 #

PB84-155779 ..... 14 p2181 N84-24063 #
PB84-155852 ..... 14 p2177 N84-24042 #
PB84-155902 ..... 14 p2149 N84-23877 #
PB84-155985 ..... 14 p2207 N84-24249 #
PB84-156108 ..... 14 p2209 N84-24259 #
PB84-156116 ..... 14 p2208 N84-24258 #
PB84-156124 ..... 14 p2207 N84-24250 #
PB84-156223 ..... 14 p2135 N84-23797 #
PB84-156363 ..... 17 p2771 N84-27594 #
PB84-156587 ..... 14 p2208 N84-24251 #
PB84-156595 ..... 14 p2208 N84-24252 #
PB84-156678 ..... 14 p2208 N84-24253 #
PB84-156679 ..... 14 p2208 N84-24257 #
PB84-156991 ..... 14 p2252 N84-24523 #
PB84-157007 ..... 14 p2252 N84-24524 #
PB84-157148 ..... 12 p1795 N84-21704 #
PB84-157155 ..... 12 p1799 N84-21736 #
PB84-157171 ..... 14 p2208 N84-24255 #
PB84-157296 ..... 14 p2207 N84-24247 #
PB84-157346 ..... 14 p2206 N84-24241 #
PB84-157379 ..... 14 p2208 N84-24254 #
PB84-157569 ..... 14 p2207 N84-24246 #
PB84-157668 ..... 14 p2207 N84-24245 #
PB84-157700 ..... 13 p2018 N84-23083 #
PB84-157882 ..... 14 p2181 N84-24065 #
PB84-157916 ..... 14 p2124 N84-23733 #
PB84-157940 ..... 14 p2207 N84-24244 #
PB84-158146 ..... 14 p2181 N84-24066 #
PB84-158369 ..... 17 p2654 N84-26978 #
PB84-158534 ..... 17 p2655 N84-26981 #
PB84-158542 ..... 17 p2655 N84-26979 #
PB84-158658 ..... 14 p2182 N84-24077 #
PB84-158666 ..... 14 p2182 N84-24076 #
PB84-158914 ..... 14 p2226 N84-24357 #
PB84-159029 ..... 14 p2124 N84-23730 #
PB84-159318 ..... 14 p2181 N84-24064 #
PB84-159599 ..... 15 p2372 N84-25231 #
PB84-159649 ..... 15 p2302 N84-24819 #
PB84-159672 ..... 20 p3230 N84-30527 #
PB84-159896 ..... 14 p2181 N84-24069 #
PB84-160001 ..... 14 p2181 N84-24068 #
PB84-160076 ..... 14 p2151 N84-23890 #
PB84-160100 ..... 15 p2344 N84-25073 #
PB84-160126 ..... 21 p3520 N84-32303 #
PB84-160605 ..... 14 p2220 N84-24322 #
PB84-160777 ..... 20 p3229 N84-30520 #
PB84-160977 ..... 14 p2130 N84-23771 #
PB84-161157 ..... 16 p2493 N84-25998 #
PB84-161207 ..... 14 p2187 N84-24102 #
PB84-161231 ..... 14 p2124 N84-23731 #
PB84-161322 ..... 14 p2124 N84-23732 #
PB84-161330 ..... 14 p2181 N84-24067 #
PB84-161439 ..... 14 p2182 N84-24072 #
PB84-161447 ..... 14 p2181 N84-24071 #
PB84-161462 ..... 14 p2181 N84-24070 #
PB84-161579 ..... 14 p2170 N84-23999 #
PB84-161629 ..... 14 p2248 N84-24501 #
PB84-161769 ..... 14 p2176 N84-24038 #
PB84-161868 ..... 14 p2170 N84-24000 #
PB84-161876 ..... 14 p2170 N84-24001 #
PB84-162163 ..... 17 p2672 N84-27030 #
PB84-162189 ..... 14 p2206 N84-24243 #
PB84-162296 ..... 17 p2639 N84-26885 #
PB84-162320 ..... 14 p2171 N84-24004 #
PB84-162338 ..... 14 p2170 N84-24002 #
PB84-162460 ..... 14 p2206 N84-24242 #
PB84-162577 ..... 14 p2170 N84-24003 #
PB84-162601 ..... 14 p2182 N84-24075 #
PB84-162791 ..... 15 p2393 N84-25364 #
PB84-162908 ..... 14 p2182 N84-24074 #
PB84-162916 ..... 16 p2478 N84-25887 #
PB84-162957 ..... 13 p1959 N84-22732 #
PB84-162999 ..... 14 p2177 N84-24043 #
PB84-163047 ..... 14 p2171 N84-24007 #
PB84-163054 ..... 14 p2171 N84-24008 #
PB84-163146 ..... 20 p3257 N84-30674 #
PB84-163203 ..... 14 p2248 N84-24500 #
PB84-163690 ..... 15 p2338 N84-25034* #
PB84-163906 ..... 15 p2369 N84-25215 #
PB84-164045 ..... 14 p2133 N84-23783* #
PB84-164110 ..... 17 p2672 N84-27029 #
PB84-164326 ..... 14 p2171 N84-24005 #
PB84-164334 ..... 14 p2171 N84-24006 #
PB84-164936 ..... 15 p2408 N84-25457 #
PB84-165158 ..... 17 p2672 N84-27031 #
PB84-165224 ..... 14 p2182 N84-24073 #
PB84-165299 ..... 17 p2723 N84-27333 #
PB84-166214 ..... 15 p2394 N84-25365 #
PB84-166362 ..... 17 p2772 N84-27602 #
PB84-166701 ..... 16 p2552 N84-26375 #
PB84-166750 ..... 17 p2725 N84-27346 #
PB84-166768 ..... 15 p2374 N84-25246 #
PB84-166818 ..... 16 p2520 N84-26177 #
PB84-166859 ..... 15 p2302 N84-24818 #
PB84-167493 ..... 15 p2288 N84-24730 #
PB84-167667 ..... 16 p2511 N84-26115 #
PB84-167709 ..... 16 p2534 N84-26270 #
PB84-167725 ..... 15 p2389 N84-25331 #
PB84-167741 ..... 18 p2820 N84-27904 #
PB84-167758 ..... 15 p2318 N84-24911 #
PB84-168103 ..... 15 p2369 N84-25216 #
PB84-168368 ..... 15 p2367 N84-25200 #
PB84-168392 ..... 17 p2639 N84-26886 #
PB84-168418 ..... 16 p2511 N84-26114 #
PB84-168632 ..... 15 p2367 N84-25201 #
PB84-169382 ..... 20 p3230 N84-30526 #
PB84-169465 ..... 16 p2534 N84-26269 #
PB84-169481 ..... 17 p2738 N84-27391 #
PB84-169499 ..... 17 p2738 N84-27392 #
PB84-169507 ..... 17 p2738 N84-27393 #
PB84-169796 ..... 17 p2655 N84-26980 #
PB84-169804 ..... 15 p2288 N84-24731 #
PB84-170042 ..... 15 p2338 N84-25035 #
PB84-170661 ..... 16 p2520 N84-26176 #
PB84-170695 ..... 16 p2568 N84-26475 #
PB84-170778 ..... 15 p2384 N84-25295 #
PB84-171172 ..... 20 p3172 N84-30140 #
PB84-171305 ..... 16 p2545 N84-26337 #
PB84-171321 ..... 16 p2542 N84-26317* #
PB84-171339 ..... 16 p2542 N84-26318* #
PB84-171529 ..... 14 p2124 N84-23729 #
PB84-171537 ..... 17 p2639 N84-26884 #
PB84-171552 ..... 17 p2611 N84-26715 #
PB84-172105 ..... 16 p2463 N84-25788 #
PB84-172212 ..... 17 p2748 N84-27447 #
PB84-172303 ..... 17 p2640 N84-26887* #
PB84-172618 ..... 17 p2681 N84-27075 #
PB84-173095 ..... 16 p2526 N84-26220 #
PB84-173608 ..... 16 p2535 N84-26272 #
PB84-173624 ..... 17 p2654 N84-26976 #
PB84-173665 ..... 16 p2519 N84-26174 #
PB84-173814 ..... 16 p2568 N84-26482 #
PB84-173848 ..... 16 p2483 N84-25921 #
PB84-174325 ..... 20 p3248 N84-30616 #
PB84-174333 ..... 20 p3248 N84-30617 #
PB84-174481 ..... 16 p2511 N84-26116 #
PB84-174739 ..... 16 p2477 N84-25883 #
PB84-174747 ..... 16 p2478 N84-25884 #
PB84-174754 ..... 16 p2478 N84-25885 #
PB84-174796 ..... 16 p2531 N84-26253 #
PB84-175025 ..... 16 p2474 N84-25862 #
PB84-175124 ..... 16 p2498 N84-26025 #
PB84-175470 ..... 16 p2474 N84-25861 #
PB84-175538 ..... 16 p2473 N84-25851 #
PB84-175603 ..... 17 p2755 N84-27488 #
PB84-175611 ..... 17 p2755 N84-27490 #
PB84-175629 ..... 17 p2755 N84-27489 #
PB84-175660 ..... 18 p2899 N84-28390* #
PB84-175710 ..... 17 p2735 N84-27385 #
PB84-175769 ..... 17 p2748 N84-27434 #
PB84-175918 ..... 20 p3239 N84-30561 #
PB84-176072 ..... 17 p2729 N84-27368 #
PB84-176452 ..... 17 p2735 N84-27384 #
PB84-176494 ..... 17 p2756 N84-27496 #
PB84-176718 ..... 17 p2755 N84-27486 #
PB84-176734 ..... 16 p2473 N84-25852 #
PB84-176759 ..... 20 p3151 N84-30011 #
PB84-176890 ..... 17 p2722 N84-27324 #
PB84-177112 ..... 17 p2675 N84-27044 #
PB84-177156 ..... 16 p2478 N84-25886 #
PB84-177377 ..... 17 p2611 N84-26716 #
PB84-177393 ..... 20 p3249 N84-30623 #
PB84-177765 ..... 17 p2672 N84-27032 #
PB84-177849 ..... 20 p3230 N84-30525 #
PB84-177930 ..... 17 p2620 N84-26768 #
PB84-178011 ..... 17 p2627 N84-26810 #
PB84-178029 ..... 17 p2755 N84-27491 #
PB84-178292 ..... 20 p3176 N84-30172 #
PB84-178359 ..... 18 p2798 N84-27757* #
PB84-178367 ..... 17 p2755 N84-27492 #
PB84-178557 ..... 20 p3199 N84-30319 #
PB84-178821 ..... 17 p2750 N84-27456 #
PB84-178847 ..... 20 p3171 N84-30139 #
PB84-178870 ..... 20 p3164 N84-30098 #
PB84-178979 ..... 20 p3165 N84-30099 #
PB84-179191 ..... 16 p2474 N84-25860 #
PB84-179241 ..... 17 p2755 N84-27487 #
PB84-179662 ..... 20 p3249 N84-30622 #
PB84-179753 ..... 16 p2474 N84-25859 #
PB84-179779 ..... 16 p2519 N84-26173 #
PB84-179811 ..... 20 p3249 N84-30625 #
PB84-179928 ..... 20 p3248 N84-30618 #
PB84-180009 ..... 20 p3229 N84-30521 #
PB84-180124 ..... 20 p3265 N84-30719 #
PB84-180140 ..... 20 p3263 N84-30701 #
PB84-180181 ..... 21 p3522 N84-32310 #
PB84-180215 ..... 20 p3275 N84-30794 #
PB84-180231 ..... 20 p3267 N84-30734 #
PB84-180249 ..... 20 p3276 N84-30798 #
PB84-180280 ..... 20 p3251 N84-30636 #
PB84-180413 ..... 20 p3171 N84-30135 #
PB84-180512 ..... 23 p3819 N84-34222 #

PB84-180603 ..... 20 p3191 N84-30271 #
PB84-180611 ..... 20 p3320 N84-31073 #
PB84-180629 ..... 20 p3320 N84-31074 #
PB84-180793 ..... 20 p3249 N84-30624 #
PB84-180892 ..... 20 p3275 N84-30795 #
PB84-181106 ..... 20 p3237 N84-30552 #
PB84-181296 ..... 20 p3229 N84-30522 #
PB84-181320 ..... 17 p2696 N84-27176 #
PB84-181361 ..... 20 p3275 N84-30796 #
PB84-181379 ..... 20 p3268 N84-30735 #
PB84-181387 ..... 20 p3276 N84-30797 #
PB84-181437 ..... 20 p3135 N84-29905 #
PB84-181650 ..... 20 p3133 N84-29893 #
PB84-181767 ..... 20 p3261 N84-30695 #
PB84-181841 ..... 21 p3449 N84-31883 #
PB84-181882 ..... 21 p3363 N84-31333 #
PB84-181957 ..... 20 p3239 N84-30560 #
PB84-181965 ..... 17 p2620 N84-26770 #
PB84-181973 ..... 17 p2627 N84-26811 #
PB84-181999 ..... 20 p3171 N84-30138 #
PB84-182104 ..... 20 p3176 N84-30170 #
PB84-182146 ..... 21 p3376 N84-31426 #
PB84-182328 ..... 21 p3519 N84-32298 #
PB84-182443 ..... 20 p3248 N84-30615 #
PB84-182732 ..... 21 p3449 N84-31884 #
PB84-182757 ..... 20 p3248 N84-30619 #
PB84-182815 ..... 20 p3243 N84-30591 #
PB84-182906 ..... 20 p3248 N84-30620 #
PB84-182914 ..... 16 p2443 N84-25672 #
PB84-183219 ..... 20 p3316 N84-31060 #
PB84-183250 ..... 20 p3229 N84-30523 #
PB84-183292 ..... 20 p3319 N84-31070 #
PB84-183482 ..... 20 p3252 N84-30636 #
PB84-183581 ..... 20 p3249 N84-30621 #
PB84-183599 ..... 20 p3165 N84-30100 #
PB84-183664 ..... 20 p3251 N84-30637 #
PB84-183680 ..... 20 p3243 N84-30592 #
PB84-184159 ..... 20 p3320 N84-31075 #
PB84-184613 ..... 20 p3237 N84-30553 #
PB84-184621 ..... 22 p3540 N84-32412 #
PB84-184639 ..... 22 p3540 N84-32413 #
PB84-184738 ..... 20 p3176 N84-30173 #
PB84-184795 ..... 20 p3244 N84-30593 #
PB84-184894 ..... 20 p3237 N84-30550 #
PB84-184951 ..... 20 p3234 N84-30530 #
PB84-185214 ..... 20 p3239 N84-30562 #
PB84-185222 ..... 20 p3238 N84-30559 #
PB84-185230 ..... 20 p3237 N84-30551 #
PB84-185941 ..... 20 p3246 N84-30603 #
PB84-186147 ..... 20 p3238 N84-30554 #
PB84-186360 ..... 21 p3519 N84-32299 #
PB84-186808 ..... 21 p3520 N84-32300 #
PB84-187244 ..... 22 p3565 N84-32577 #
PB84-187723 ..... 20 p3182 N84-30217 #
PB84-187731 ..... 20 p3182 N84-30219 #
PB84-187749 ..... 20 p3182 N84-30218 #
PB84-187855 ..... 21 p3451 N84-31899 #
PB84-187939 ..... 20 p3252 N84-30639 #
PB84-187947 ..... 20 p3252 N84-30640 #
PB84-187954 ..... 20 p3252 N84-30641 #
PB84-188655 ..... 21 p3520 N84-32301 #
PB84-188671 ..... 20 p3320 N84-31077 #
PB84-188689 ..... 20 p3320 N84-31076 #
PB84-188697 ..... 20 p3320 N84-31078 #
PB84-188770 ..... 20 p3314 N84-31044 #
PB84-189158 ..... 21 p3520 N84-32302 #
PB84-189257 ..... 20 p3238 N84-30556 #
PB84-189323 ..... 21 p3450 N84-31892 #
PB84-189521 ..... 20 p3165 N84-30101 #
PB84-189554 ..... 20 p3191 N84-30272 #
PB84-189596 ..... 20 p3314 N84-31045 #
PB84-189604 ..... 20 p3314 N84-31046 #
PB84-189729 ..... 22 p3534 N84-32374 #
PB84-189836 ..... 20 p3268 N84-30737* #
PB84-189885 ..... 20 p3268 N84-30738 #
PB84-190115 ..... 22 p3615 N84-32904 #
PB84-190206 ..... 22 p3628 N84-32987 #
PB84-190487 ..... 21 p3451 N84-31900 #
PB84-190602 ..... 22 p3631 N84-33008 #
PB84-190628 ..... 20 p3188 N84-30257 #
PB84-190636 ..... 20 p3176 N84-30171 #
PB84-190735 ..... 20 p3151 N84-30012 #
PB84-190982 ..... 20 p3229 N84-30524 #
PB84-191220 ..... 22 p3642 N84-33094 #
PB84-191675 ..... 21 p3445 N84-31860 #
PB84-192012 ..... 20 p3205 N84-30358 #
PB84-192020 ..... 20 p3203 N84-30343 #
PB84-192178 ..... 20 p3171 N84-30137 #
PB84-192186 ..... 20 p3171 N84-30136 #
PB84-192202 ..... 21 p3499 N84-32179 #
PB84-192210 ..... 20 p3205 N84-30357 #
PB84-192418 ..... 21 p3450 N84-31893 #
PB84-192749 ..... 20 p3204 N84-30356 #
PB84-192848 ..... 20 p3204 N84-30355 #
PB84-192855 ..... 21 p3450 N84-31894 #
PB84-192905 ..... 20 p3159 N84-30062 #
PB84-193200 ..... 21 p3415 N84-31656 #
PB84-193226 ..... 21 p3516 N84-32270 #
PB84-193234 ..... 20 p3316 N84-31061 #
PB84-193747 ..... 20 p3204 N84-30354 #
PB84-194208 ..... 20 p3239 N84-30563 #
PB84-194273 ..... 21 p3326 N84-31101 #
PB84-194315 ..... 21 p3433 N84-31779 #
PB84-194661 ..... 22 p3650 N84-33138 #
PB84-194703 ..... 21 p3451 N84-31901 #
PB84-194737 ..... 20 p3243 N84-30590 #
PB84-194745 ..... 21 p3450 N84-31895 #
PB84-194752 ..... 21 p3446 N84-31862 #
PB84-194794 ..... 21 p3353 N84-31270* #
PB84-194802 ..... 21 p3516 N84-32271 #
PB84-194828 ..... 21 p3452 N84-31902 #
PB84-194877 ..... 21 p3520 N84-32304 #
PB84-194885 ..... 22 p3578 N84-32665 #
PB84-194919 ..... 20 p3276 N84-30799* #
PB84-195155 ..... 22 p3638 N84-33067 #
PB84-195239 ..... 22 p3565 N84-32578 #
PB84-195304 ..... 22 p3631 N84-33009 #
PB84-195312 ..... 22 p3631 N84-33010 #
PB84-195361 ..... 22 p3675 N84-33295* #
PB84-195411 ..... 22 p3627 N84-32986* #
PB84-195841 ..... 22 p3549 N84-32471 #
PB84-195874 ..... 22 p3675 N84-33296 #
PB84-196161 ..... 22 p3615 N84-32903 #
PB84-196286 ..... 21 p3369 N84-31377 #
PB84-196385 ..... 22 p3626 N84-32977 #
PB84-196435 ..... 21 p3449 N84-31885 #
PB84-196492 ..... 21 p3467 N84-31987 #
PB84-196997 ..... 22 p3669 N84-33255 #
PB84-197003 ..... 22 p3669 N84-33256 #
PB84-197011 ..... 21 p3449 N84-31886 #
PB84-197995 ..... 22 p3596 N84-32773 #
PB84-198753 ..... 21 p3449 N84-31887 #
PB84-198811 ..... 21 p3445 N84-31861 #
PB84-198837 ..... 21 p3450 N84-31888 #
PB84-199041 ..... 22 p3557 N84-32524 #
PB84-199603 ..... 21 p3450 N84-31889 #
PB84-199645 ..... 21 p3433 N84-31780 #
PB84-199926 ..... 22 p3565 N84-32579 #
PB84-200575 ..... 22 p3619 N84-32932 #
PB84-200609 ..... 22 p3619 N84-32934 #
PB84-200617 ..... 22 p3619 N84-32935 #
PB84-200625 ..... 22 p3620 N84-32936 #
PB84-201243 ..... 22 p3639 N84-33068 #
PB84-201508 ..... 22 p3680 N84-33329 #
PB84-201516 ..... 22 p3680 N84-33330 #
PB84-201557 ..... 22 p3615 N84-32905 #
PB84-201581 ..... 22 p3615 N84-32906 #
PB84-201680 ..... 21 p3437 N84-31806 #
PB84-202068 ..... 22 p3639 N84-33069 #
PB84-202092 ..... 22 p3612 N84-32887 #
PB84-202233 ..... 21 p3466 N84-31978 #
PB84-202647 ..... 22 p3675 N84-33297 #
PB84-202662 ..... 21 p3395 N84-31548 #
PB84-202704 ..... 21 p3432 N84-31778 #
PB84-202753 ..... 22 p3590 N84-32742 #
PB84-202795 ..... 21 p3467 N84-31986 #
PB84-204353 ..... 22 p3578 N84-32668 #
PB84-204551 ..... 21 p3467 N84-31985 #
PB84-204569 ..... 22 p3626 N84-32978 #
PB84-204684 ..... 21 p3363 N84-31335 #
PB84-204973 ..... 22 p3578 N84-32669 #
PB84-205137 ..... 22 p3628 N84-32988 #
PB84-205434 ..... 21 p3450 N84-31890 #
PB84-206911 ..... 21 p3450 N84-31891 #
PB84-207018 ..... 22 p3626 N84-32979 #
PB84-207265 ..... 22 p3674 N84-33294 #
PB84-207620 ..... 22 p3612 N84-32888 #
PB84-207869 ..... 22 p3564 N84-32575 #
PB84-207984 ..... 22 p3578 N84-32666 #
PB84-209113 ..... 22 p3626 N84-32980 #
PB84-209287 ..... 22 p3533 N84-32370 #
PB84-210046 ..... 22 p3599 N84-32798 #
PB84-210053 ..... 22 p3627 N84-32981 #
PB84-210103 ..... 22 p3533 N84-32371 #
PB84-210244 ..... 22 p3578 N84-32667 #
PB84-210996 ..... 22 p3533 N84-32369 #
PB84-211291 ..... 22 p3599 N84-32797 #
PB84-212166 ..... 22 p3642 N84-33095 #
PB84-212679 ..... 22 p3549 N84-32469 #
PB84-212687 ..... 22 p3549 N84-32470 #
PB84-214360 ..... 21 p3363 N84-31334 #
PB84-214394 ..... 21 p3375 N84-31417 #
PB84-215094 ..... 22 p3562 N84-32560 #
PB84-215268 ..... 22 p3564 N84-32576 #
PB84-215276 ..... 22 p3561 N84-32550 #
PB84-216498 ..... 20 p3309 N84-31016 #
PB84-217082 ..... 20 p3127 N84-29859 #
PB84-217900 ..... 20 p3268 N84-30739 #
PB84-910401 ..... 18 p2789 N84-27702 #
PB84-910402 ..... 11 p1603 N84-20502 #
PB84-910403 ..... 12 p1767 N84-21525 #
PB84-910405 ..... 19 p2960 N84-28760 #

PB84-910407 ..... 22 p3533 N84-32368 #
PB84-917002 ..... 19 p2960 N84-28761 #
PB85-102135 ..... 22 p3530 N84-32348* #

PC-01036 ..... 08 p1144 N84-17442 #

PCRL-FR-83-005 ..... 24 p3880 N84-34583 #

PD-BRA-82-278R ..... 01 p0066 N84-10432 #
PD-BRA-83-295R ..... 12 p1910 N84-22441 #
PD-BRA-83-302R ..... 05 p0743 N84-14882 #
PD-BRA-83-307R ..... 23 p3844 N84-34389 #

PD-BSI-83-293R ..... 01 p0149 N84-10976 #

PD-NW-83-285R ..... 02 p0249 N84-11632 #
PD-NW-83-296R ..... 11 p1683 N84-20983 #
PD-NW-84-310R ..... 19 p3053 N84-29377 #

PDA-TR-5530-00-02 ..... 09 p1315 N84-18591 #

PDRC-83-03 ..... 01 p0129 N84-10846 #

PD80-55 ..... 12 p1777 N84-21592* #
PD81-20A ..... 12 p1777 N84-21596* #
PD82-1A ..... 12 p1777 N84-21594* #

PEP-NOTE-372 ..... 02 p0282 N84-11850 #

PERIODIC-REPT-2 ..... 21 p3386 N84-31489 #
PERIODIC-REPT-3 ..... 08 p1196 N84-17799 #

PERLAB-3 ..... 13 p2022 N84-23108 #
PERLAB-4 ..... 14 p2185 N84-24093 #

PFC/CP-84-1 ..... 19 p3106 N84-29737 #
PFC/CP-84-6 ..... 20 p3304 N84-30982 #
PFC/CP-84-7 ..... 20 p3304 N84-30981 #
PFC/CP-85-5 ..... 19 p3107 N84-29745 #

PFC/RR-83-7 ..... 03 p0447 N84-12937 #
PFC/RR-83-13 ..... 01 p0149 N84-10982 #
PFC/RR-83-19 ..... 03 p0449 N84-12950 #
PFC/RR-83-20 ..... 03 p0430 N84-12817 #
PFC/RR-83-22 ..... 11 p1738 N84-21337 #
PFC/RR-83-28 ..... 04 p0611 N84-14034 #
PFC/RR-83-32 ..... 18 p2933 N84-28599 #
PFC/RR-83-35 ..... 12 p1911 N84-22451 #
PFC/RR-84-3 ..... 20 p3304 N84-30983 #
PFC/RR-84-5 ..... 20 p3303 N84-30979 #

PFTR-1098-83-10 ..... 17 p2747 N84-27440 #

PHL-1983-02 ..... 02 p0228 N84-11495 #
PHL-1983-10 ..... 12 p1884 N84-22285 #
PHL-1983-34 ..... 12 p1821 N84-21871 #
PHL-1983-44 ..... 12 p1808 N84-21790 #
PHL-1983-47 ..... 17 p2725 N84-27344 #
PHL-1984-05 ..... 20 p3182 N84-30214 #
PHL-1984-12-PT-2 ..... 20 p3313 N84-31043 #
PHL-1984-21 ..... 19 p3010 N84-29082 #

PHM-TR-83-01 ..... 22 p3623 N84-32957 #
PHM-TR-84-02 ..... 16 p2531 N84-26251 #
PHM-TR-84-03 ..... 22 p3623 N84-32956 #

PHYS-84-1 ..... 13 p1993 N84-22938 #

PLASMA-PHYSICS-PUB-83-01 ..... 01 p0070 N84-10458 #

PMA-83-821 ..... 05 p0730 N84-14792 #

PME-FM-84-1 ..... 19 p3024 N84-29177 #

PMIC-MA03-469-28 ..... 01 p0027 N84-10171* #
PMIC-MA03-469-29 ..... 06 p0794 N84-15171* #
PMIC-MA03-469-30 ..... 09 p1260 N84-18225* #

PML-1982-3 ..... 12 p1814 N84-21825
PML-1982-4 ..... 12 p1821 N84-21873
PML-1982-54 ..... 02 p0269 N84-11759
PML-1982-128 ..... 12 p1803 N84-21756 #
PML-1983-6 ..... 12 p1804 N84-21759
PML-1983-10 ..... 12 p1904 N84-22401
PML-1983-22 ..... 12 p1803 N84-21752
PML-1983-34 ..... 12 p1790 N84-21676
PML-1983-40 ..... 17 p2614 N84-26731
PML-1983-114 ..... 10 p1496 N84-19780 #
PML-1984-5 ..... 20 p3199 N84-30316 #

PMTC-TP-000014 ..... 09 p1351 N84-18828 #

PNL-SA-9566 ..... 01 p0109 N84-10707 #
PNL-SA-10382 ..... 03 p0458 N84-13014 #
PNL-SA-10400 ..... 01 p0046 N84-10295 #
PNL-SA-10433 ..... 02 p0285 N84-11871 #
PNL-SA-10528 ..... 02 p0292 N84-11915 #
PNL-SA-10604 ..... 01 p0053 N84-10341 #
PNL-SA-10811 ..... 02 p0195 N84-11270 #
PNL-SA-10860 ..... 06 p0880 N84-15728
PNL-SA-10870 ..... 03 p0406 N84-12655 #
PNL-SA-10923 ..... 03 p0357 N84-12321 #
PNL-SA-10932 ..... 04 p0507 N84-13325 #
PNL-SA-10954 ..... 04 p0571 N84-13762 #
PNL-SA-10999 ..... 01 p0005 N84-10033 #
PNL-SA-11013 ..... 04 p0571 N84-13763 #
PNL-SA-11055 ..... 02 p0266 N84-11749 #
PNL-SA-11058 ..... 02 p0266 N84-11750 #
PNL-SA-11067 ..... 01 p0091 N84-10596 #
PNL-SA-11132 ..... 03 p0404 N84-12643 #
PNL-SA-11138 ..... 04 p0502 N84-13289 #
PNL-SA-11141 ..... 04 p0569 N84-13752 #
PNL-SA-11167 ..... 03 p0428 N84-12804 #
PNL-SA-11188 ..... 03 p0412 N84-12694 #
PNL-SA-11189 ..... 04 p0542 N84-13571 #
PNL-SA-11292 ..... 02 p0197 N84-11280 #
PNL-SA-11317 ..... 01 p0124 N84-10806 #
PNL-SA-11320 ..... 04 p0610 N84-14026 #
PNL-SA-11321 ..... 04 p0504 N84-13302 #
PNL-SA-11332 ..... 01 p0145 N84-10956 #
PNL-SA-11354 ..... 03 p0405 N84-12649 #
PNL-SA-11364 ..... 04 p0504 N84-13304 #
PNL-SA-11365 ..... 04 p0504 N84-13303 #
PNL-SA-11404 ..... 11 p1634 N84-20684 #
PNL-SA-11419 ..... 02 p0266 N84-11748 #
PNL-SA-11425 ..... 04 p0502 N84-13291 #
PNL-SA-11444 ..... 04 p0581 N84-13836 #
PNL-SA-11488 ..... 09 p1285 N84-18392 #
PNL-SA-11504 ..... 07 p1082 N84-17039 #
PNL-SA-11512 ..... 04 p0616 N84-14069 #
PNL-SA-11513 ..... 05 p0760 N84-14983 #
PNL-SA-11537 ..... 04 p0555 N84-13653 #
PNL-SA-11539 ..... 06 p0935 N84-16080 #
PNL-SA-11551 ..... 03 p0427 N84-12803 #
PNL-SA-11555 ..... 04 p0598 N84-13944 #
PNL-SA-11565 ..... 20 p3267 N84-30730 #
PNL-SA-11597 ..... 14 p2169 N84-23992 #
PNL-SA-11624 ..... 20 p3154 N84-30025 #
PNL-SA-11629 ..... 15 p2359 N84-25158 #
PNL-SA-11667 ..... 15 p2296 N84-24792 #
PNL-SA-11715 ..... 05 p0759 N84-14981 #
PNL-SA-11765 ..... 11 p1710 N84-21146 #
PNL-SA-11768 ..... 21 p3494 N84-32142 #
PNL-SA-11781 ..... 12 p1864 N84-22144 #
PNL-SA-11787 ..... 15 p2288 N84-24728 #
PNL-SA-11845 ..... 12 p1845 N84-22029 #
PNL-SA-11880 ..... 18 p2931 N84-28585 #
PNL-SA-11881 ..... 21 p3371 N84-31389 #
PNL-SA-12058 ..... 20 p3313 N84-31041 #
PNL-SA-12081 ..... 20 p3237 N84-30547 #
PNL-SA-12116 ..... 20 p3158 N84-30058 #
PNL-SA-12161 ..... 22 p3642 N84-33090 #
PNL-SA-12192 ..... 20 p3200 N84-30323 #
PNL-SA-12197 ..... 21 p3406 N84-31607 #
PNL-SA-12218 ..... 21 p3410 N84-31629 #
PNL-SA-12244 ..... 22 p3626 N84-32976 #
PNL-SA-12245 ..... 22 p3596 N84-32772 #
PNL-SA-12287 ..... 22 p3655 N84-33166 #
PNL-SA-111743 ..... 10 p1472 N84-19612 #

PNL-3960 ..... 01 p0017 N84-10107 #
PNL-4001-3 ..... 03 p0445 N84-12926 #
PNL-4367 ..... 01 p0109 N84-10706 #
PNL-4403 ..... 02 p0256 N84-11676 #
PNL-4535 ..... 01 p0080 N84-10523 #
PNL-4623 ..... 04 p0516 N84-13388 #
PNL-4690 ..... 02 p0285 N84-11870 #
PNL-4709 ..... 20 p3246 N84-30604 #
PNL-4785 ..... 03 p0412 N84-12693 #
PNL-4796 ..... 04 p0564 N84-13720 #
PNL-4849 ..... 10 p1529 N84-20019 #
PNL-4882 ..... 09 p1369 N84-18940 #
PNL-4888 ..... 21 p3448 N84-31875 #
PNL-4889 ..... 11 p1688 N84-21011 #
PNL-4895 ..... 22 p3626 N84-32974 #
PNL-4900 ..... 22 p3616 N84-32914 #
PNL-4914 ..... 14 p2180 N84-24056 #
PNL-4945 ..... 20 p3187 N84-30250 #
PNL-5008 ..... 21 p3402 N84-31585 #
PNL-5013 ..... 20 p3154 N84-30030 #
PNL-5061 ..... 20 p3145 N84-29967 #
PNL-5067 ..... 23 p3791 N84-34042 #
PNL-5112 ..... 22 p3599 N84-32791* #
PNL-5238 ..... 24 p3916 N84-34794 #

PNR-90167 ..... 13 p2010 N84-23037 #
PNR-90168 ..... 13 p1933 N84-22570 #
PNR-90169 ..... 19 p2991 N84-28957
PNR-90170 ..... 13 p1994 N84-22942 #
PNR-90171 ..... 13 p1965 N84-22767 #
PNR-90172 ..... 13 p1933 N84-22571 #
PNR-90174 ..... 13 p1933 N84-22572 #

PNR-90175 ..... 13 p1961 N84-22742 #
PNR-90176 ..... 13 p1933 N84-22573 #
PNR-90178 ..... 13 p1933 N84-22574 #
PNR-90179 ..... 13 p1933 N84-22575 #
PNR-90180 ..... 13 p2064 N84-23386 #
PNR-90181 ..... 13 p1933 N84-22576 #
PNR-90182 ..... 13 p1961 N84-22743 #
PNR-90183 ..... 19 p3032 N84-29234 #
PNR-90184 ..... 13 p1975 N84-22813 #
PNR-90185 ..... 13 p1996 N84-22956 #
PNR-90186 ..... 13 p2044 N84-23261 #
PNR-90187 ..... 13 p1999 N84-22971 #
PNR-90189 ..... 13 p1975 N84-22814 #
PNR-90190 ..... 14 p2110 N84-23651 #
PNR-90191 ..... 13 p1934 N84-22577 #
PNR-90192 ..... 13 p1999 N84-22972 #
PNR-90193 ..... 13 p1934 N84-22578 #
PNR-90194 ..... 13 p1975 N84-22815 #
PNR-90195 ..... 13 p1934 N84-22579 #
PNR-90196 ..... 13 p1934 N84-22580 #
PNR-90197 ..... 13 p1934 N84-22581 #
PNR-90198 ..... 13 p1934 N84-22582 #
PNR-90199 ..... 13 p1999 N84-22973 #

PO-83-506 ..... 06 p0794 N84-15171* #

POLY-EE-83-003 ..... 08 p1232 N84-18054 #
POLY-EE-83-004 ..... 09 p1385 N84-19047 #

POLY-EE/CE-83-001 ..... 01 p0129 N84-10845 #

POLY-M/AE-83-4 ..... 10 p1578 N84-20342 #

POLY-MRI-1425-82 ..... 03 p0378 N84-12464 #
POLY-MRI-1429-83 ..... 02 p0210 N84-11371 #
POLY-MRI-1432-83 ..... 09 p1306 N84-18538 #

PP-119 ..... 13 p2023 N84-23115
PP-127 ..... 18 p2876 N84-28264 #
PP-132 ..... 18 p2868 N84-28206

PPAFTR-1131-83-1 ..... 13 p2022 N84-23109 #

PPD-E-83-10589 ..... 02 p0223 N84-11461 #

PPG-711 ..... 04 p0606 N84-13998 #
PPG-722 ..... 02 p0281 N84-11840 #
PPG-748 ..... 09 p1345 N84-18789 #
PPG-763 ..... 14 p2229 N84-24364 #

PPR-1126-84-4 ..... 24 p3937 N84-34921 #

PPSP-MP-50 ..... 04 p0556 N84-13660 #

PPSP/JHU/PPSE-T-23 ..... 10 p1473 N84-19619 #
PPSP/JHU/PPSE-T-27 ..... 05 p0714 N84-14679 #

PPSP/PPRP-75 ..... 08 p1198 N84-17808 #
PPSP/PPRP-86 ..... 20 p3237 N84-30553 #
PPSP/PPRP-87 ..... 20 p3251 N84-30636 #

PR-RSC-4242-4-2 ..... 17 p2652 N84-26960* #

PR-1 ..... 17 p2728 N84-27361 #
PR-2 ..... 10 p1522 N84-19966* #
PR-3 ..... 12 p1803 N84-21756 #
PR-3 ..... 17 p2709 N84-27249* #
PR-3 ..... 20 p3237 N84-30548 #
PR-4 ..... 04 p0551 N84-13628* #
PR-4 ..... 07 p0967 N84-16265* #
PR-4 ..... 10 p1491 N84-19751 #
PR-4 ..... 14 p2248 N84-24499 #
PR-4 ..... 20 p3263 N84-30703 #
PR-9 ..... 15 p2287 N84-24723 #
PR-34 ..... 19 p3007 N84-29064 #
PR-76I 08 p1243 N84-18127
PR-83-1 ..... 08 p1185 N84-17721 #
PR-125 ..... 08 p1151 N84-17495 #
PR-783 ..... 08 p1184 N84-17715
PR-813 ..... 08 p1154 N84-17511
PR-826 ..... 09 p1385 N84-19043 #
PR-829 ..... 08 p1244 N84-18135
PR-830 ..... 08 p1244 N84-18134
PR-839 ..... 08 p1109 N84-17208
PR-840 ..... 09 p1312 N84-18570 #

PREPRINT-10 ..... 23 p3840 N84-34362 #
PREPRINT-35 ..... 20 p3133 N84-29896 #
PREPRINT-83-73 ..... 23 p3828 N84-34284 #
PREPRINT-83-74 ..... 23 p3829 N84-34285 #
PREPRINT-83-77 ..... 21 p3502 N84-32194 #
PREPRINT-017 ..... 17 p2774 N84-27616* #
PREPRINT-149 ..... 06 p0920 N84-15981* #
PREPRINT-153 ..... 17 p2780 N84-27652* #
PREPRINT-356 ..... 20 p3283 N84-30843 #
PREPRINT-357 ..... 20 p3297 N84-30937 #
PREPRINT-358 ..... 20 p3297 N84-30938 #
PREPRINT-360 ..... 23 p3819 N84-34216 #
PREPRINT-364 ..... 23 p3819 N84-34217 #
PREPRINT-372 ..... 21 p3403 N84-31591 #
PREPRINT-383 ..... 23 p3823 N84-34246 #
PREPRINT-402 ..... 23 p3823 N84-34247 #
PREPRINT-403 ..... 23 p3819 N84-34218 #
PREPRINT-584 ..... 02 p0221 N84-11448 #
PREPRINT-589 ..... 02 p0279 N84-11827 #
PREPRINT-604 ..... 10 p1423 N84-19302 #
PREPRINT-611 ..... 13 p1991 N84-22925 #
PREPRINT-622 ..... 15 p2397 N84-25378 #
PREPRINT-635 ..... 17 p2759 N84-27523 #
PREPRINT-636 ..... 17 p2760 N84-27524 #
PREPRINT-637 ..... 17 p2669 N84-27022 #
PREPRINT-746 ..... 02 p0221 N84-11449 #
PREPRINT-789 ..... 12 p1895 N84-22346 #
PREPRINT-790 ..... 12 p1817 N84-21845 #
PREPRINT-791 ..... 12 p1817 N84-21846 #
PREPRINT-792 ..... 12 p1817 N84-21847 #
PREPRINT-796 ..... 12 p1817 N84-21848 #

PRI-7 ..... 14 p2230 N84-24373 #
PRI-72 ..... 13 p2045 N84-23273 #
PRI-76 ..... 21 p3501 N84-32189 #

PRV6-13/82 ..... 12 p1776 N84-21589 #

PR81-00615 ..... 11 p1730 N84-21284 #

PSI-FR-21-167 ..... 22 p3653 N84-33157 #

PSI-TR-423 ..... 18 p2846 N84-28069 #

PSL-PD01038 ..... 11 p1622 N84-20620 #

PSR-N-477 ..... 11 p1694 N84-21054 #

PSRP-665 ..... 14 p2137 N84-23808 #

PT-6369 ..... 05 p0676 N84-14441 #

PTB-E-25 ..... 16 p2554 N84-26389 #

PTB-ME-39 ..... 02 p0206 N84-11345 #
PTB-ME-40 ..... 02 p0225 N84-11474 #
PTB-ME-47 ..... 10 p1499 N84-19800 #

PTI-SB-2363-21-3505-VOL-1 ..... 08 p1147 N84-17465 #
PTI-SB-2363-21-3794-VOL-2 ..... 08 p1147 N84-17466 #

PTI-8318 ..... 18 p2798 N84-27752 #

PTPT-83-R-04 ..... 06 p0853 N84-15557 #

PTR-81-11 ..... 19 p3073 N84-29498* #
PTR-83-5 ..... 07 p1071 N84-16954* #
PTR-83-7 ..... 07 p0992 N84-16430* #
PTR-84-1 ..... 08 p1164 N84-17576* #
PTR-84-4 ..... 20 p3192 N84-30274* #

PUB-LAW-98-361 ..... 22 p3676 N84-33303 #

PUB-41083 ..... 04 p0555 N84-13658 #
PUB-41084 ..... 05 p0697 N84-14579 #

PUBL-310 ..... 16 p2487 N84-25951 #
PUBL-312 ..... 15 p2360 N84-25160 #
PUBL-340 ..... 04 p0532 N84-13499 #
PUBL-604-REV ..... 08 p1222 N84-17980 #
PUBL-660 ..... 07 p1001 N84-16491* #

PV6-13/82-VOL-1 ..... 12 p1776 N84-21588 #

PWA-FR-8062 ..... 14 p2127 N84-23755 #

PWA-5574-175 ..... 22 p3554 N84-32504* #
PWA-5594-142 ..... 22 p3536 N84-32389* #
PWA-5594-152 ..... 18 p2796 N84-27739* #
PWA-5594-165 ..... 18 p2795 N84-27737* #
PWA-5594-167 ..... 18 p2795 N84-27738* #
PWA-5594-171 ..... 19 p2965 N84-28788* #
PWA-5594-191 ..... 19 p2965 N84-28789* #
PWA-5697-65 ..... 01 p0052 N84-10332* #
PWA-5777-29 ..... 03 p0355 N84-12312* #
PWA-5777-30 ..... 07 p0978 N84-16337* #
PWA-5833-37 ..... 15 p2343 N84-25065* #
PWA-5896-21 ..... 10 p1431 N84-19353* #
PWA-5914-21 ..... 22 p3598 N84-32790* #

PWA/FR-17211 ..... 24 p3890 N84-34631 #

PWA/GPD-FR-16616 ..... 12 p1803 N84-21753 #
PWA/GPD-FR-16727-VOL-2 ..... 17 p2680 N84-27072 #
PWA/GPD-FR-16823 ..... 01 p0012 N84-10076 #
PWA/GPD-FR-17145-VOL-1 ..... 07 p1007 N84-16529* #

PWA/GPD-FR-17404-VOL-1 ..... 10 p1469 N84-19597 #
PWA/GPD-FR-17404-VOL-2 ..... 10 p1469 N84-19598 #
PWA/GPD-FR-17579 ..... 21 p3475 N84-32023 #
PWA/GPD-FR-17626 ..... 14 p2106 N84-23629* #

P79-1 ..... 18 p2890 N84-28344 #
P83-10209 ..... 03 p0341 N84-12214* #
P84-10004 ..... 07 p0963 N84-16241*

QFT-7 ..... 04 p0589 N84-13894 #

QL-2 ..... 20 p3166 N84-30105 #

QPR-1 ..... 09 p1299 N84-18490 #
QPR-1 ..... 23 p3788 N84-34025* #
QPR-2 ..... 11 p1711 N84-21155 #
QPR-3 ..... 15 p2411 N84-25472 #
QPR-3 ..... 24 p3951 N84-35018 #
QPR-4 ..... 02 p0235 N84-11544* #
QPR-25 ..... 16 p2870 N84-28219* #
QPR-26 ..... 23 p3789 N84-34029* #

QR-1 ..... 02 p0299 N84-11959 #
QR-1 ..... 12 p1777 N84-21592* #
QR-1 ..... 23 p3787 N84-34021* #
QR-1 ..... 23 p3788 N84-34027* #
QR-1 ..... 23 p3803 N84-34116 #
QR-2 ..... 01 p0071 N84-10463 #
QR-2 ..... 04 p0553 N84-13643* #
QR-2 ..... 05 p0753 N84-14936 #
QR-2 ..... 14 p2224 N84-24349 #
QR-2 ..... 18 p2869 N84-28215* #
QR-2 ..... 19 p3050 N84-29353* #
QR-2 ..... 23 p3742 N84-33719 #
QR-2 ..... 23 p3788 N84-34026* #
QR-3 ..... 02 p0235 N84-11543* #
QR-3 ..... 07 p0993 N84-16434 #
QR-3 ..... 15 p2281 N84-24700* #
QR-3 ..... 23 p3786 N84-34012* #
QR-3 ..... 23 p3789 N84-34033* #
QR-4 ..... 02 p0236 N84-11550* #
QR-4 ..... 04 p0552 N84-13638* #
QR-5 ..... 05 p0697 N84-14574* #
QR-5 ..... 10 p1494 N84-19771 #
QR-5 ..... 11 p1671 N84-20905* #
QR-5 ..... 13 p2004 N84-23000* #
QR-6 ..... 01 p0153 N84-11005 #
QR-6 ..... 13 p2005 N84-23009* #
QR-6 ..... 16 p2506 N84-26084* #
QR-6 ..... 20 p3166 N84-30109 #
QR-7 ..... 02 p0241 N84-11581* #
QR-7 ..... 20 p3185 N84-30241 #
QR-7 ..... 21 p3427 N84-31737* #
QR-8 ..... 18 p2869 N84-28214* #
QR-9 ..... 04 p0557 N84-13673* #
QR-10 ..... 01 p0072 N84-10468 #
QR-10 ..... 04 p0557 N84-13672* #
QR-11 ..... 05 p0675 N84-14439 #
QR-12 ..... 17 p2723 N84-27329* #
QR-13 ..... 23 p3787 N84-34020* #
QR-14 ..... 02 p0214 N84-11402 #
QR-15 ..... 05 p0676 N84-14441 #
QR-15 ..... 12 p1814 N84-21822 #
QR-15 ..... 14 p2149 N84-23874 #
QR-16 ..... 13 p1987 N84-22899 #
QR-197 ..... 07 p1081 N84-17027 #
QR-10092-01 ..... 23 p3788 N84-34027* #

QSTPR-3 ..... 02 p0238 N84-11561* #
QSTPR-4 ..... 12 p1829 N84-21924* #
QSTPR-5 ..... 07 p1020 N84-16615* #
QSTPR-5 ..... 16 p2506 N84-26085* #

QTPR-2 ..... 10 p1433 N84-19368* #
QTPR-4 ..... 19 p2985 N84-28915* #
QTPR-5 ..... 24 p3878 N84-34573* #
QTPR-7 ..... 04 p0494 N84-13242 #
QTPR-7 ..... 23 p3718 N84-33566* #
QTPR-14 ..... 10 p1487 N84-19720 #
QTPR-6329-15 ..... 23 p3786 N84-34014* #
QTPR-6329-18 ..... 23 p3788 N84-34022* #

QTR-1 ..... 19 p3049 N84-29351* #
QTR-6 ..... 14 p2242 N84-24461 #
QTR-6 ..... 21 p3430 N84-31783* #
QTR-8 ..... 10 p1586 N84-20409 #
QTR-30 ..... 05 p0670 N84-14405 #
QTR-31 ..... 09 p1298 N84-18486 #

QUEL-1492/83 ..... 15 p2296 N84-24779 #
QUEL-1502/83 ..... 15 p2350 N84-25106 #
QUEL-1509/83 ..... 15 p2391 N84-25345 #
QUEL-1512/84 ..... 16 p2487 N84-25952 #
QUEL-1513/84 ..... 15 p2256 N84-24552 #

R-1 ..... 21 p3415 N84-31656 #

R-1-83 ..... 06 p0893 N84-15800 #
R-3 ..... 14 p2159 N84-23933 #
R-5-83 ..... 09 p1397 N84-19125 #
R-49 ..... 10 p1527 N84-20007 #
R-55-83 ..... 14 p2159 N84-23933 #
R-83-047 ..... 05 p0670 N84-14403 #
R-84-2 ..... 22 p3650 N84-33138 #
R-446 ..... 10 p1518 N84-19941 #
R-448 ..... 11 p1669 N84-20890 #
R-989 ..... 20 p3174 N84-30157 #
R-990 ..... 20 p3283 N84-30849 #
R-991 ..... 20 p3162 N84-30077 #
R-992 ..... 20 p3308 N84-31012 #
R-993 ..... 20 p3177 N84-30181 #
R-994 ..... 20 p3178 N84-30182 #
R-996 ..... 20 p3280 N84-30822 #
R-997 ..... 20 p3280 N84-30824 #
R-998 ..... 20 p3174 N84-30158 #
R-1385 ..... 21 p3451 N84-31897 #
R-1563 ..... 17 p2675 N84-27044 #
R-1603 ..... 15 p2395 N84-25366* #
R-3083-NASA ..... 14 p2113 N84-23664* #
R-8403 ..... 24 p3920 N84-34814 #

R/PERS-626 ..... 04 p0573 N84-13777 #

RAC-TR-83-09-E01 ..... 10 p1486 N84-19713 #

RADC-TM-84-13 ..... 24 p3946 N84-34989 #

RADC-TOD-83-11 ..... 18 p2829 N84-27961 #

RADC-TR-82-270 ..... 12 p1836 N84-21970 #
RADC-TR-82-274 ..... 03 p0361 N84-12347 #
RADC-TR-82-286-VOL-1 ..... 19 p3004 N84-29040 #
RADC-TR-82-286-VOL-2A ..... 05 p0675 N84-14435 #
RADC-TR-82-304 ..... 07 p1007 N84-16532 #
RADC-TR-82-316 ..... 01 p0066 N84-10433 #
RADC-TR-82-326 ..... 01 p0146 N84-10962 #
RADC-TR-82-327 ..... 02 p0209 N84-11364 #
RADC-TR-82-337 ..... 01 p0064 N84-10418 #
RADC-TR-83-5 ..... 05 p0689 N84-14400 #
RADC-TR-83-12 ..... 01 p0100 N84-10649 #
RADC-TR-83-26 ..... 01 p0131 N84-10860 #
RADC-TR-83-31 ..... 01 p0043 N84-10279 #
RADC-TR-83-32 ..... 01 p0070 N84-10460 #
RADC-TR-83-33 ..... 01 p0129 N84-10844 #
RADC-TR-83-35 ..... 01 p0072 N84-10469 #
RADC-TR-83-39 ..... 01 p0121 N84-10790 #
RADC-TR-83-40 ..... 01 p0064 N84-10419 #
RADC-TR-83-41 ..... 01 p0062 N84-10410 #
RADC-TR-83-50 ..... 04 p0604 N84-13987 #
RADC-TR-83-51 ..... 06 p0795 N84-15181 #
RADC-TR-83-54 ..... 05 p0668 N84-14396 #
RADC-TR-83-59 ..... 01 p0120 N84-10781 #
RADC-TR-83-60 ..... 06 p0896 N84-15816 #
RADC-TR-83-62 ..... 01 p0067 N84-10435 #
RADC-TR-83-72 ..... 02 p0272 N84-11778 #
RADC-TR-83-79 ..... 08 p1212 N84-17909 #
RADC-TR-83-80 ..... 04 p0580 N84-13827 #
RADC-TR-83-83 ..... 02 p0284 N84-11860 #
RADC-TR-83-85-VOL-1 ..... 05 p0689 N84-14529 #
RADC-TR-83-85-VOL-2 ..... 05 p0689 N84-14528 #
RADC-TR-83-86 ..... 06 p0824 N84-15372 #
RADC-TR-83-89 ..... 08 p1145 N84-17448 #
RADC-TR-83-91-VOL-1 ..... 05 p0668 N84-14395 #
RADC-TR-83-91-VOL-2 ..... 05 p0668 N84-14394 #
RADC-TR-83-100 ..... 06 p0822 N84-15361 #
RADC-TR-83-101 ..... 09 p1301 N84-18507 #
RADC-TR-83-102 ..... 09 p1301 N84-18505 #
RADC-TR-83-107-VOL-1 ..... 11 p1704 N84-21105 #
RADC-TR-83-107-VOL-2 ..... 11 p1704 N84-21106 #
RADC-TR-83-107-VOL-3 ..... 11 p1704 N84-21107 #
RADC-TR-83-108 ..... 09 p1328 N84-18669 #
RADC-TR-83-109 ..... 01 p0063 N84-10411 #
RADC-TR-83-111 ..... 09 p1387 N84-19056 #
RADC-TR-83-114 ..... 04 p0521 N84-13424 #
RADC-TR-83-118 ..... 12 p1807 N84-21782 #
RADC-TR-83-119 ..... 04 p0520 N84-13417 #
RADC-TR-83-120 ..... 03 p0459 N84-13022 #
RADC-TR-83-121 ..... 09 p1303 N84-18519 #
RADC-TR-83-124 ..... 02 p0272 N84-11779 #
RADC-TR-83-126 ..... 05 p0667 N84-14389 #
RADC-TR-83-127 ..... 06 p0922 N84-15995 #
RADC-TR-83-128 ..... 13 p1983 N84-22675 #
RADC-TR-83-131 ..... 03 p0441 N84-12893 #
RADC-TR-83-132 ..... 09 p1369 N84-18936 #
RADC-TR-83-133 ..... 09 p1301 N84-18504 #
RADC-TR-83-134 ..... 18 p2829 N84-27961 #
RADC-TR-83-136 ..... 14 p2247 N84-24497 #
RADC-TR-83-139 ..... 05 p0753 N84-14941 #
RADC-TR-83-140 ..... 13 p1982 N84-22869 #
RADC-TR-83-156 ..... 19 p3100 N84-29689 #
RADC-TR-83-157 ..... 09 p1308 N84-18553 #
RADC-TR-83-158-VOL-1 ..... 09 p1273 N84-18311 #
RADC-TR-83-158-VOL-2 ..... 09 p1273 N84-18312 #

RADC-TR-83-164 ..... 09 p1309 N84-18560 #
RADC-TR-83-165 ..... 09 p1302 N84-18509 #
RADC-TR-83-168 ..... 14 p2247 N84-24498 #
RADC-TR-83-174-VOL-1 ..... 12 p1883 N84-22276 #
RADC-TR-83-174-VOL-2 ..... 12 p1884 N84-22277 #
RADC-TR-83-175-VOL-1 ..... 11 p1707 N84-21128 #
RADC-TR-83-175-VOL-2 ..... 11 p1707 N84-21129 #
RADC-TR-83-175-VOL-3 ..... 11 p1708 N84-21130 #
RADC-TR-83-176 ..... 14 p2205 N84-24233 #
RADC-TR-83-178 ..... 12 p1913 N84-22463 #
RADC-TR-83-181 ..... 12 p1806 N84-21772 #
RADC-TR-83-182 ..... 06 p0923 N84-15999 #
RADC-TR-83-183 ..... 06 p0824 N84-15373 #
RADC-TR-83-184 ..... 23 p3634 N84-34324 #
RADC-TR-83-202 ..... 13 p2047 N84-23281 #
RADC-TR-83-207-VOL-1 ..... 12 p1881 N84-22262 #
RADC-TR-83-207-VOL-2 ..... 12 p1881 N84-22263 #
RADC-TR-83-209 ..... 06 p0923 N84-15998 #
RADC-TR-83-210 ..... 13 p1982 N84-22870 #
RADC-TR-83-211 ..... 11 p1643 N84-20743 #
RADC-TR-83-213 ..... 08 p1145 N84-17451 #
RADC-TR-83-216 ..... 14 p2169 N84-23995 #
RADC-TR-83-217-VOL-1 ..... 10 p1480 N84-19669 #
RADC-TR-83-217-VOL-2 ..... 10 p1480 N84-19670 #
RADC-TR-83-217-VOL-3 ..... 10 p1480 N84-19671 #
RADC-TR-83-217-VOL-3-PT-2 ..... 11 p1644 N84-20750 #
RADC-TR-83-217-VOL-3-PT-3 ..... 10 p1480 N84-19673 #
RADC-TR-83-217-VOL-3-PT-4 ..... 10 p1480 N84-19674 #
RADC-TR-83-218 ..... 12 p1807 N84-21783 #
RADC-TR-83-223 ..... 14 p2140 N84-23830 #
RADC-TR-83-224 ..... 13 p2046 N84-23279 #
RADC-TR-83-225 ..... 09 p1302 N84-18508 #
RADC-TR-83-226-VOL-1 ..... 14 p2203 N84-24223 #
RADC-TR-83-226-VOL-2 ..... 14 p2203 N84-24224 #
RADC-TR-83-226-VOL-3 ..... 14 p2203 N84-24225 #
RADC-TR-83-230 ..... 08 p1151 N84-17492 #
RADC-TR-83-231 ..... 12 p1914 N84-22471 #
RADC-TR-83-236 ..... 14 p2209 N84-24260 #
RADC-TR-83-237-VOL-1 ..... 19 p3004 N84-29041 #
RADC-TR-83-238-VOL-1 ..... 19 p3076 N84-29518 #
RADC-TR-83-238-VOL-2 ..... 19 p3076 N84-29519 #
RADC-TR-83-239 ..... 15 p2418 N84-25520 #
RADC-TR-83-242 ..... 12 p1811 N84-21806 #
RADC-TR-83-243 ..... 15 p2408 N84-25453 #
RADC-TR-83-254 ..... 21 p3462 N84-31950 #
RADC-TR-83-255 ..... 15 p2388 N84-25328 #
RADC-TR-83-261-VOL-1 ..... 15 p2282 N84-24703 #
RADC-TR-83-261-VOL-2 ..... 15 p2282 N84-24704 #
RADC-TR-83-262 ..... 23 p3815 N84-34192 #
RADC-TR-83-265 ..... 15 p2408 N84-25454 #
RADC-TR-83-269 ..... 18 p2829 N84-27960 #
RADC-TR-83-270 ..... 16 p2553 N84-26378 #
RADC-TR-83-272 ..... 17 p2754 N84-27478 #
RADC-TR-83-273 ..... 18 p2844 N84-28062 #
RADC-TR-83-274 ..... 17 p2654 N84-26974 #
RADC-TR-83-284 ..... 19 p3074 N84-29504 #
RADC-TR-83-285 ..... 20 p3309 N84-31013 #
RADC-TR-83-289 ..... 15 p2321 N84-24934 #
RADC-TR-83-290 ..... 19 p3009 N84-29072 #
RADC-TR-83-291 ..... 18 p2834 N84-27989 #
RADC-TR-83-292 ..... 19 p3074 N84-29506 #
RADC-TR-83-293 ..... 18 p2830 N84-27967 #
RADC-TR-83-294 ..... 14 p2140 N84-23833 #
RADC-TR-83-298 ..... 16 p2545 N84-26336 #
RADC-TR-83-299 ..... 16 p2544 N84-26334 #
RADC-TR-83-305 ..... 15 p2329 N84-24985 #
RADC-TR-83-308 ..... 19 p3095 N84-29656 #
RADC-TR-83-309 ..... 15 p2413 N84-25485 #
RADC-TR-83-312 ..... 13 p2067 N84-23402 #
RADC-TR-83-313-VOL-1 ..... 15 p2397 N84-25382 #
RADC-TR-83-313-VOL-2 ..... 15 p2391 N84-25350 #
RADC-TR-83-314-VOL-1 ..... 19 p3077 N84-29525 #
RADC-TR-83-314-VOL-2 ..... 19 p3078 N84-29526 #
RADC-TR-84-6 ..... 20 p3178 N84-30183 #
RADC-TR-84-8 ..... 19 p3008 N84-29066 #
RADC-TR-84-9-PT-1 ..... 19 p3006 N84-29051 #
RADC-TR-84-9-PT-2 ..... 19 p3005 N84-29047 #
RADC-TR-84-9-PT-3 ..... 19 p3005 N84-29050 #
RADC-TR-84-9-PT-4 ..... 19 p3006 N84-29052 #
RADC-TR-84-9-PT-5 ..... 19 p3005 N84-29048 #
RADC-TR-84-9-PT-6 ..... 19 p3006 N84-29053 #
RADC-TR-84-11 ..... 22 p3577 N84-32656 #
RADC-TR-84-16 ..... 22 p3663 N84-33218 #
RADC-TR-84-18 ..... 20 p3299 N84-30951 #
RADC-TR-84-20 ..... 18 p2851 N84-28102 #
RADC-TR-84-26 ..... 23 p3701 N84-33458 #
RADC-TR-84-38 ..... 20 p3178 N84-30188 #
RADC-TR-84-51 ..... 20 p3148 N84-29988 #
RADC-TR-84-52-VOL-1 ..... 19 p3014 N84-29104 #
RADC-TR-84-52-VOL-2 ..... 21 p3383 N84-31467 #
RADC-TR-84-59 ..... 22 p3576 N84-32652 #
RADC-TR-84-62-VOL-1 ..... 19 p3114 N84-29786 #
RADC-TR-84-62-VOL-2 ..... 19 p3114 N84-29787 #
RADC-TR-84-71 ..... 24 p3964 N84-35100 #
RADC-TR-84-74 ..... 23 p3731 N84-33647 #
RADC-TR-84-80 ..... 21 p3386 N84-31487 #

RADC-TR-84-91 ..... 20 p3175 N84-30159 #
RADC-TR-84-94 ..... 23 p3730 N84-33644 #
RADC-TR-84-95 ..... 19 p3009 N84-29071 #
RADC-TR-84-142 ..... 24 p3894 N84-34660 #
RADC-TR-84-151 ..... 24 p3946 N84-34983 #

RAE-AERO-3415 ..... 18 p2836 N84-27998

RAE-FS(F)-205 ..... 09 p1361 N84-18892

RAE-LIB-TRANS-2098 ..... 04 p0505 N84-13312 #
RAE-LIB-TRANS-2110 ..... 16 p2462 N84-25777 #

RAE-MAT/STRUCT-29 ..... 03 p0355 N84-12310

RAE-STRUCT-ACC-245 ..... 17 p2603 N84-26678
RAE-STRUCT-ACC-248 ..... 17 p2603 N84-26677

RAE-STRUCTS-A4/11129/AJA/109 ..... 17 p2603 N84-26678
RAE-STRUCTS-A4/11183/WB 17 p2603 N84-26677

RAE-TM-AERO-1963 ..... 17 p2667 N84-27007 #
RAE-TM-AERO-1985 ..... 16 p2442 N84-25668 #

RAE-TM-FS(F)-495 ..... 15 p2319 N84-24917 #
RAE-TM-FS(F)-514 ..... 03 p0319 N84-12089

RAE-TM-MAT/STR-1024 ..... 12 p1789 N84-21664
RAE-TM-MAT/STR-1038 ..... 23 p3711 N84-33526 #

RAE-TM-RAD-NAV-224 ..... 09 p1298 N84-18484
RAE-TM-RAD-NAV-224 ..... 09 p1301 N84-18506 #

RAE-TR-77058 ..... 18 p2836 N84-27998
RAE-TR-83009 ..... 03 p0355 N84-12310
RAE-TR-83018 ..... 10 p1451 N84-19473 #
RAE-TR-83043 ..... 09 p1361 N84-18892
RAE-TR-83079 ..... 18 p2828 N84-27957 #

RAE-TRANS-2102 ..... 04 p0515 N84-13381 #
RAE-TRANS-2106 ..... 23 p3717 N84-33562 #
RAE-TRANS-2108 ..... 05 p0644 N84-14238 #
RAE-TRANS-2111 ..... 11 p1646 N84-20760 #
RAE-TRANS-2113 ..... 22 p3600 N84-32804 #
RAE-TRANS-2118 ..... 22 p3630 N84-33004 #

RAI-84-B-4 ..... 21 p3504 N84-32202* #

RAND/N-1914-RC-REV ..... 11 p1706 N84-21118 #
RAND/N-2027-AF ..... 06 p0933 N84-16064 #
RAND/N-2031-ARPA ..... 09 p1371 N84-18955 #
RAND/N-2056-RC-REV ..... 12 p1879 N84-22244 #
RAND/N-2115 ..... 22 p3673 N84-33284 #
RAND/N-2121-PSSP ..... 22 p3647 N84-33124 #
RAND/N-2131-NSF ..... 22 p3673 N84-33286 #
RAND/N-2139-ARPA ..... 21 p3327 N84-31108 #
RAND/N-2162-AF ..... 24 p3969 N84-35129 #

RAND/P-6653 ..... 12 p1876 N84-22229 #
RAND/P-6893 ..... 11 p1718 N84-21206 #
RAND/P-6930 ..... 11 p1747 N84-21402 #
RAND/P-6945 ..... 14 p2247 N84-24496 #
RAND/P-6966 ..... 23 p3697 N84-33426 #

RAND/R-2936-ARPA ..... 02 p0184 N84-11195 #
RAND/R-3046-AF ..... 17 p2614 N84-26734 #

RANRL-T/NOTE(EXT)-1/84 ..... 23 p3731 N84-33645 #

RANRL-TM(EXT)-4/83 ..... 10 p1526 N84-19994 #
RANRL-TM(EXT)-8/83 ..... 13 p2018 N84-23087 #

RANRL-TN(EXT)-1/83 ..... 01 p0067 N84-10436 #
RANRL-TN(EXT)-3/82-PT-1 ..... 01 p0140 N84-10918 #

RANRL-TN-2/83 ..... 14 p2141 N84-23834 #

RARDE-11/83 ..... 09 p1286 N84-18397

RA1-84-F-3 ..... 15 p2286 N84-24716* #

RBRL-IMR-660 ..... 17 p2760 N84-27526 #

RCA-PRRL-81-CR-19 ..... 19 p3011 N84-29087* #

RCC/DG-501-84 ..... 16 p2455 N84-25742 #

RCC/IOG-550-83 ..... 01 p0017 N84-10111 #
RCC/IOG-551-83 ..... 07 p0961 N84-16230 #

RCC/MG-104-63 ..... 04 p0567 N84-13737 #
RCC/MG-104-63 ..... 07 p1036 N84-16722 #
RCC/MG-363-83 ..... 02 p0254 N84-11664 #
RCC/MG-364-83 ..... 02 p0254 N84-11661 #
RCC/MG-365-83 ..... 04 p0567 N84-13738 #
RCC/MG-366-83 ..... 04 p0567 N84-13737 #

RCC/MG-367-83 ..... 06 p0882 N84-15734 #
RCC/MG-368-83 ..... 06 p0882 N84-15736 #
RCC/MG-369-83 ..... 07 p1036 N84-16722 #
RCC/MG-370-83 ..... 10 p1590 N84-20421 #
RCC/MG-371-84 ..... 12 p1861 N84-22122 #

RCC/TCG-207-84 ..... 15 p2329 N84-24982 #

RD-1-84 ..... 10 p1438 N84-19389* #
RD-1-84 ..... 11 p1624 N84-20631* #

RDA-TR-119930-001 ..... 01 p0067 N84-10441 #
RDA-TR-124200-001 ..... 18 p2940 N84-28650 #

RDM/TR-83/2 ..... 09 p1377 N84-18996 #

RE-667 ..... 11 p1603 N84-20498 #

REC-ERC-81-5 ..... 08 p1172 N84-17637 #
REC-ERC-83-7 ..... 14 p2141 N84-23838 #

REF-82-7 ..... 01 p0111 N84-10721 #
REF-84-4 ..... 18 p2892 N84-28356 #
REF-84-8 ..... 18 p2893 N84-28358 #
REF-84-9 ..... 23 p3803 N84-34114 #

REPRINT-751 ..... 13 p1934 N84-22578 #
REPRINT-758 ..... 13 p1975 N84-22815 #
REPRINT-870 ..... 13 p2010 N84-23037 #
REPRINT-871 ..... 13 p1933 N84-22570 #
REPRINT-872 ..... 19 p2991 N84-28957
REPRINT-873 ..... 13 p1965 N84-22767 #
REPRINT-873 ..... 13 p1994 N84-22942 #
REPRINT-875 ..... 13 p1933 N84-22571 #
REPRINT-877 ..... 13 p1933 N84-22572 #
REPRINT-878 ..... 13 p1961 N84-22742 #
REPRINT-879 ..... 13 p1933 N84-22573 #
REPRINT-891 ..... 13 p1934 N84-22577 #
REPRINT-892 ..... 13 p1933 N84-22575 #
REPRINT-893 ..... 13 p2064 N84-23386 #
REPRINT-894 ..... 13 p1933 N84-22576 #
REPRINT-895 ..... 13 p1961 N84-22743 #
REPRINT-896 ..... 19 p3032 N84-29234 #
REPRINT-897 ..... 13 p1975 N84-22813 #
REPRINT-898 ..... 13 p1996 N84-22956 #
REPRINT-899 ..... 13 p2044 N84-23261 #
REPRINT-900 ..... 13 p1999 N84-22971 #
REPRINT-902 ..... 13 p1975 N84-22814 #
REPRINT-903 ..... 14 p2110 N84-23651 #
REPRINT-904 ..... 13 p1999 N84-22972 #
REPRINT-913 ..... 13 p1934 N84-22580 #
REPRINT-914 ..... 13 p1934 N84-22581 #
REPRINT-916 ..... 13 p1934 N84-22582 #
REPRINT-917 ..... 13 p1999 N84-22973 #
REPRINT-919 ..... 13 p1934 N84-22579 #

REPT-A-5/84-PT-1 ..... 23 p3691 N84-33393 #

REPT-AR/MHAM-1983-1 ..... 21 p3458 N84-31940 #

REPT-F1 ..... 01 p0142 N84-10930 #

REPT-I-4/241/720/83.063 ..... 10 p1469 N84-19593 #

REPT-OF-INVESTIGATIONS-132 ..... 10 p1526 N84-19996 #

REPT-S-124 ..... 09 p1310 N84-18566 #
REPT-S-125 ..... 09 p1304 N84-18526 #
REPT-S-126 ..... 09 p1304 N84-18527 #
REPT-S-128 ..... 09 p1379 N84-19012 #
REPT-S-129 ..... 09 p1413 N84-19241 #
REPT-S-130 ..... 09 p1370 N84-18943 #
REPT-S-131 ..... 09 p1305 N84-18528 #
REPT-S-133 ..... 09 p1390 N84-19080 #
REPT-S-134 ..... 09 p1310 N84-18567 #
REPT-S-135 ..... 09 p1337 N84-18733 #
REPT-S-136 ..... 09 p1390 N84-19081 #
REPT-S-137 ..... 09 p1305 N84-18529 #
REPT-S-138 ..... 09 p1416 N84-19268 #
REPT-S-140 ..... 09 p1417 N84-19269 #
REPT-S-141 ..... 15 p2320 N84-24925 #
REPT-S-142 ..... 10 p1572 N84-20301 #
REPT-S-144 ..... 15 p2320 N84-24926 #
REPT-S-145 ..... 15 p2424 N84-25564 #
REPT-S-146 ..... 15 p2328 N84-24978 #
REPT-S-147 ..... 15 p2320 N84-24927 #
REPT-S-148 ..... 15 p2320 N84-24928 #
REPT-S-161 ..... 15 p2349 N84-25100 #

REPT-1 ..... 01 p0043 N84-10275 #
REPT-1 ..... 24 p3934 N84-34900 #
REPT-1-83 ..... 15 p2318 N84-24912
REPT-1WW/TN-83/002 ..... 13 p2017 N84-23075 #
REPT-2 ..... 01 p0043 N84-10276 #
REPT-2 ..... 11 p1747 N84-21403* #
REPT-2(1984) ..... 18 p2900 N84-28398 #

REPT-2-6-ONR ..... 10 p1454 N84-19497 #
REPT-2-19200/3R-1062B ..... 11 p1623 N84-20624* #
REPT-2-19200/3R-1195B ..... 11 p1623 N84-20623* #
REPT-2-20150/4R-2 ..... 24 p3948 N84-34999 #
REPT-2-32300/IR-03 ..... 11 p1623 N84-20622* #
REPT-2-52300/2R-53020 ..... 19 p2956 N84-28737* #
REPT-2-53200/3R-53490 ..... 08 p1155 N84-17523* #
REPT-2-55110/2R-53299 ..... 03 p0320 N84-12096* #
REPT-2-55110/3R-53463-VOL-1 ..... 17 p2600 N84-28662* #
REPT-2-55110/3R-53463-VOL-2 ..... 17 p2600 N84-28663* #
REPT-2/1982 ..... 02 p0205 N84-11340
REPT-3 ..... 02 p0287 N84-11884* #
REPT-3 ..... 15 p2379 N84-25280 #
REPT-3 ..... 15 p2413 N84-25486 #
REPT-3 ..... 24 p3898 N84-34685 #
REPT-3-83 ..... 15 p2318 N84-24913
REPT-3-95 ..... 23 p3729 N84-33636
REPT-4 ..... 20 p3201 N84-30335 #
REPT-4 ..... 21 p3453 N84-31912 #
REPT-4-83 ..... 08 p1217 N84-17942 #
REPT-4-83 ..... 15 p2259 N84-24569
REPT-4-84 ..... 20 p3172 N84-30144
REPT-4-25664 ..... 05 p0675 N84-14434 #
REPT-5 ..... 02 p0287 N84-11882* #
REPT-5 ..... 03 p0460 N84-13025 #
REPT-5 ..... 05 p0670 N84-14407 #
REPT-5 ..... 18 p2837 N84-28008 #
REPT-5/1982 ..... 10 p1424 N84-19316
REPT-5/1983 ..... 09 p1336 N84-18724 #
REPT-5WW-TN-79/001 ..... 03 p0411 N84-12689 #
REPT-5WW-TN-83/001 ..... 03 p0411 N84-12689 #
REPT-6 ..... 08 p1197 N84-17806 #
REPT-6 ..... 12 p1801 N84-21745 #
REPT-8-83 ..... 16 p2553 N84-26381
REPT-9 ..... 15 p2287 N84-24723 #
REPT-9C7-LFTST-R1 ..... 05 p0686 N84-14511 #
REPT-11 ..... 12 p1800 N84-21737
REPT-11 ..... 12 p1864 N84-22147 #
REPT-11-83 ..... 15 p2318 N84-24914
REPT-12 ..... 12 p1800 N84-21738
REPT-12-83 ..... 15 p2269 N84-24627
REPT-14 ..... 08 p1203 N84-17842 #
REPT-15 ..... 13 p2033 N84-23183 #
REPT-17-83-8 ..... 05 p0719 N84-14713 #
REPT-18/5069-M ..... 18 p2815 N84-27873 #
REPT-21-4140(2) ..... 13 p1964 N84-22759 #
REPT-22 ..... 10 p1457 N84-19517 #
REPT-22 ..... 19 p3079 N84-29535 #
REPT-23 ..... 19 p3034 N84-29242
REPT-23/83 ..... 24 p3953 N84-35033 #
REPT-24/83 ..... 19 p3025 N84-29186 #
REPT-29.4.155/NT ..... 07 p1017 N84-16596 #
REPT-35 ..... 02 p0189 N84-11226 #
REPT-36 ..... 12 p1825 N84-21698
REPT-48 ..... 23 p3763 N84-33850 #
REPT-53-4503-9802 ..... 13 p1975 N84-22821 #
REPT-67 ..... 09 p1391 N84-19085 #
REPT-71.3794 ..... 12 p1884 N84-22283 #
REPT-72/84/R006U 19 p3003 N84-29033
REPT-74 ..... 11 p1731 N84-21291* #
REPT-80 ..... 20 p3312 N84-31032 #
REPT-80B ..... 01 p0092 N84-10600 #
REPT-81 ..... 17 p2771 N84-27593 #
REPT-81 ..... 20 p3283 N84-30846 #
REPT-81.4 ..... 03 p0383 N84-12494
REPT-81-3 ..... 07 p1001 N84-16491* #
REPT-82 ..... 20 p3285 N84-30861 #
REPT-82.8 ..... 03 p0370 N84-12410
REPT-82-2 ..... 03 p0349 N84-12269 #
REPT-82-6F3-DELAY-R4 ..... 05 p0753 N84-14941 #
REPT-82-16 ..... 01 p0060 N84-10391 #
REPT-82-29 ..... 06 p0898 N84-15833 #
REPT-82-004 ..... 06 p0918 N84-15969 #
REPT-82-219 ..... 22 p3664 N84-33227 #
REPT-82-18823 ..... 06 p0830 N84-15398 #
REPT-83-A1-SER-A ..... 04 p0483 N84-13175 #
REPT-83-A2-SER-A ..... 12 p1765 N84-21512 #
REPT-83-PT-2 ..... 21 p3476 N84-32032 #
REPT-83-1 ..... 01 p0122 N84-10796 #
REPT-83-3 ..... 17 p2748 N84-27446 #
REPT-83-8C1-ELOSS-R1 ..... 11 p1629 N84-20657 #
REPT-83-9C9-TUDEV-R1 ..... 10 p1589 N84-20411 #
REPT-83-9FS-ATRAN-R1 ..... 02 p0212 N84-11388* #
REPT-83-9F5-DISQR-R1 ..... 09 p1306 N84-18536* #
REPT-83-03 ..... 06 p0903 N84-15863 #
REPT-83-10 ..... 23 p3691 N84-33392 #
REPT-83-46 ..... 02 p0280 N84-11832* #
REPT-83-47 ..... 01 p0003 N84-10022* #
REPT-83-54 ..... 01 p0128 N84-10837* #
REPT-83-55 ..... 01 p0077 N84-10501* #
REPT-83-62 ..... 05 p0627 N84-14123* #
REPT-83-63 ..... 06 p0908 N84-15896* #
REPT-83-64 ..... 06 p0908 N84-15897* #
REPT-83-147 ..... 03 p0450 N84-12964 #
REPT-83-148 ..... 13 p2045 N84-23274 #
REPT-83-149 ..... 13 p1994 N84-22941 #

REPT-83F0228 ..... 06 p0852 N84-15555* #
REPT-83F5158 ..... 06 p0818 N84-15327* #
REPT-84-R-958 ..... 23 p3701 N84-33462* #
REPT-84-SM-1 ..... 19 p3096 N84-29257 #
REPT-84-SM-2 ..... 20 p3202 N84-30340 #
REPT-84-SRD-019 ..... 17 p2624 N84-26793 #
REPT-84-1 ..... 10 p1550 N84-20161 #
REPT-84-6 ..... 10 p1419 N84-19262* #
REPT-84-9C9-SUPER-R1 ..... 19 p3110 N84-29760 #
REPT-84-9D4-SURFC-R1 ..... 16 p2497 N84-26023 #
REPT-84-030 ..... 14 p2202 N84-24219 #
REPT-84-150 ..... 17 p2766 N84-27567 #
REPT-84-151 ..... 17 p2766 N84-27568 #
REPT-84-152 ..... 17 p2767 N84-27569 #
REPT-84ASE369SA5 ..... 21 p3521 N84-32305* #
REPT-84B0271 ..... 17 p2617 N84-26751* #
REPT-84FO235 ..... 15 p2346 N84-25078* #
REPT-84F0248 ..... 14 p2119 N84-23698* #
REPT-84F0257 ..... 23 p3726 N84-33613* #
REPT-84F0267 ..... 22 p3581 N84-32679* #
REPT-84F5215 ..... 10 p1558 N84-20208* #
REPT-84HV001 ..... 14 p2127 N84-23752* #
REPT-84SRC10 ..... 19 p2968 N84-28807* #
REPT-84SRD034 ..... 24 p3883 N84-34604 #
REPT-85-0061 ..... 19 p3004 N84-29042 #
REPT-90/1982 ..... 13 p2012 N84-23052 #
REPT-92/1982 ..... 13 p2012 N84-23053 #
REPT-95 ..... 21 p3409 N84-31623 #
REPT-101-43-16 ..... 22 p3614 N84-32900 #
REPT-107 ..... 07 p1027 N84-16654 #
REPT-111 ..... 07 p1041 N84-16751 #
REPT-113 ..... 07 p1041 N84-16752 #
REPT-115 ..... 12 p1837 N84-21975 #
REPT-115-12A ..... 03 p0359 N84-12333 #
REPT-129 ..... 21 p3444 N84-31849 #
REPT-153-1836 ..... 05 p0736 N84-14832 #
REPT-155 ..... 02 p0169 N84-11113 #
REPT-178 ..... 21 p3432 N84-31777 #
REPT-179 ..... 07 p0949 N84-16156 #
REPT-214 ..... 03 p0410 N84-12681 #
REPT-218 ..... 17 p2662 N84-26983
REPT-220 ..... 17 p2651 N84-26955
REPT-223 ..... 17 p2757 N84-27501
REPT-226 ..... 21 p3437 N84-31805 #
REPT-240-6176-A ..... 13 p2047 N84-23281 #
REPT-274 ..... 16 p2450 N84-25710* #
REPT-329 ..... 07 p1029 N84-16671* #
REPT-340-20209 ..... 06 p0861 N84-15610 #
REPT-458-DT-5 ..... 12 p1782 N84-21628 #
REPT-474.145/83 ..... 16 p2448 N84-25703 #
REPT-475 ..... 10 p1430 N84-19352 #
REPT-605 ..... 06 p0900 N84-15841 #
REPT-606 ..... 06 p0834 N84-15424 #
REPT-609 ..... 20 p3240 N84-30569 #
REPT-664 ..... 06 p0940 N84-16107* #
REPT-695 ..... 24 p3992 N84-35262* #
REPT-743 ..... 07 p1005 N84-16522 #
REPT-762 ..... 11 p1733 N84-21301 #
REPT-831 ..... 11 p1758 N84-21475 #
REPT-901-0061 ..... 08 p1178 N84-17676 #
REPT-980 ..... 10 p1595 N84-20457* #
REPT-0002AC ..... 20 p3308 N84-31010 #
REPT-0059-84-1 ..... 24 p3937 N84-34922 #
REPT-0226-7 ..... 07 p1069 N84-16941* #
REPT-0226-9 ..... 21 p3490 N84-32115* #
REPT-0226-10 ..... 21 p3490 N84-32116* #
REPT-0226-11 ..... 18 p2928 N84-28569* #
REPT-0226-12 ..... 21 p3490 N84-32117* #
REPT-0226-13 ..... 22 p3651 N84-33145* #
REPT-0226-14 ..... 22 p3652 N84-33146* #
REPT-0303-53-1289 ..... 08 p1133 N84-17367 #
REPT-0563/84 ..... 21 p3491 N84-32126 #
REPT-1049 ..... 18 p2878 N84-28275* #
REPT-1080-PT-3-VOL-2-31 ..... 10 p1563 N84-20240 #
REPT-1080-3-VOL-1-PT-3 ..... 07 p1055 N84-16829 #
REPT-1080-33-VOL-4 ..... 20 p3273 N84-30774 #
REPT-1080-34 ..... 20 p3272 N84-30766 #
REPT-1080-35 ..... 21 p3466 N84-31973 #
REPT-1187-1R ..... 05 p0633 N84-14158* #
REPT-1326-01-1-2824 ..... 17 p2652 N84-26956 #
REPT-1378-03-8-3150 ..... 17 p2607 N84-26699 #
REPT-1378-03-8-3150 ..... 19 p2961 N84-28766 #
REPT-1378-11-9-3244 ..... 17 p2605 N84-26689 #
REPT-1459 ..... 19 p3038 N84-29275* #
REPT-1514-2 ..... 20 p3198 N84-30310 #
REPT-1842-EEG-TR-83-18-EX ..... 09 p1389 N84-19071 #
REPT-1842-EEG/EEIT-TR-16-EZ ..... 03 p0360 N84-12341 #
REPT-1982-02 ..... 06 p0827 N84-15390 #
REPT-1982-05 ..... 06 p0903 N84-15864 #
REPT-1983 ..... 15 p2413 N84-25488 #
REPT-1983-2 ..... 07 p1081 N84-17028 #
REPT-1983-4 ..... 21 p3504 N84-32204 #
REPT-1983-01 ..... 06 p0826 N84-15389 #
REPT-1983-04 ..... 06 p0831 N84-15410 #
REPT-2002 ..... 10 p1550 N84-20157 #
REPT-2003 ..... 12 p1867 N84-22164 #
REPT-2313 ..... 01 p0058 N84-10375 #
REPT-2846-01-TR-3062 ..... 08 p1240 N84-18103 #
REPT-2983-81 ..... 11 p1731 N84-21290* #
REPT-3012C4:WGM ..... 06 p0796 N84-15185 #
REPT-3049-4 ..... 17 p2679 N84-27067 #
REPT-5078-TR-83 ..... 15 p2388 N84-25327 #
REPT-5103-TR-83 ..... 15 p2270 N84-24630 #
REPT-5105-130 ..... 22 p3617 N84-32917* #
REPT-5400-02 ..... 19 p3081 N84-29549 #
REPT-6329-24 ..... 23 p3789 N84-34031* #
REPT-6479 ..... 09 p1302 N84-18509 #
REPT-6519 ..... 21 p3386 N84-31487 #
REPT-6907 ..... 24 p3902 N84-34708* #
REPT-7467-926028 ..... 05 p0663 N84-14355 #
REPT-8212 ..... 06 p0899 N84-15834 #
REPT-8213 ..... 01 p0063 N84-10413 #
REPT-8302-ONR ..... 01 p0117 N84-10757 #
REPT-8303-22 ..... 01 p0083 N84-10543 #
REPT-8304-ONR ..... 11 p1714 N84-21178 #
REPT-8308-X4400-201 ..... 05 p0679 N84-14466 #
REPT-8309-38 ..... 09 p1316 N84-18612 #
REPT-8309-38 ..... 20 p3189 N84-30258 #
REPT-8318 ..... 21 p3448 N84-31880 #
REPT-8404-1 ..... 21 p3345 N84-31219* #
REPT-9279 ..... 19 p3059 N84-29411 #
REPT-05423-F ..... 03 p0379 N84-12466 #
REPT-11816 ..... 21 p3365 N84-31346* #
REPT-11982 ..... 15 p2327 N84-24973* #
REPT-15958-MA-129T-003F-VOL-1 ..... 02 p0202 N84-11319* #
REPT-15958-T-1548-262T-0045 ..... 02 p0205 N84-11335* #
REPT-15958T-1548-MA-129T-003F ..... 02 p0202 N84-11318* #
REPT-18401 ..... 10 p1529 N84-20015* #
REPT-23499-6033-UT.00 ..... 06 p0919 N84-15972* #
REPT-38172-6001-UE-00 ..... 03 p0403 N84-12634* #
REPT-38945-6012-UT-00 ..... 19 p2998 N84-28995* #
REPT-41763-6001-UT-00 ..... 14 p2114 N84-23667* #
REPT-61045-VOL-1 ..... 05 p0699 N84-14588 #
REPT-61584 ..... 21 p3491 N84-32125 #
REPT-018223-F ..... 09 p1310 N84-18562 #
REPT-019795-1-T ..... 08 p1151 N84-17489 #
REPT-020547-IR-1 ..... 14 p2145 N84-23854* #
REPT-404720 ..... 02 p0223 N84-11464 #
REPT-447104-1 ..... 23 p3816 N84-34197 #
REPT-0340284FR-NA17-SSM04 ..... 19 p2983 N84-28900* #
REPT-5011202-81-1 ..... 17 p2625 N84-26798 #
REPT-5011202-81-2 ..... 17 p2625 N84-26799 #
REPT-5011202-81-3 ..... 17 p2625 N84-26800 #
REPT-5211901-80-1 ..... 17 p2629 N84-26815

RES/DEVELOP-SR-3 ..... 20 p3196 N84-30300 #

RF-447105 ..... 24 p3895 N84-34668 #

RFP-3275 ..... 20 p3150 N84-30001 #
RFP-3423 ..... 12 p1843 N84-22019 #
RFP-3424/1-VOL-1 ..... 01 p0103 N84-10668 #
RFP-3442 ..... 06 p0814 N84-15296 #
RFP-3455 ..... 06 p0814 N84-15297 #
RFP-3463 ..... 21 p3358 N84-31296 #
RFP-3500 ..... 03 p0423 N84-12767 #
RFP-3529 ..... 11 p1634 N84-20681 #
RFP-3558 ..... 15 p2411 N84-25471 #
RFP-3562/3-VOL-3 ..... 15 p2365 N84-25190 #
RFP-3562/4-VOL-4 ..... 14 p2173 N84-24014 #
RFP-3586 ..... 13 p2009 N84-23033 #
RFP-3610 ..... 15 p2299 N84-24800 #
RFP-3612 ..... 14 p2173 N84-24013 #
RFP-3638 ..... 22 p3541 N84-32420 #
RFP-3678 ..... 21 p3435 N84-31794 #
RFP-03388 ..... 01 p0045 N84-10289 #

RHO-BW-CR-140P ..... 11 p1654 N84-20798 #

RI-33SSV133636 ..... 18 p2806 N84-27815* #

RI/RD83-170 ..... 06 p0834 N84-15428* #
RI/RD84-126 ..... 14 p2121 N84-23714 #
RI/RD84-191 ..... 23 p3756 N84-33811* #

RISOE-R-483 ..... 10 p1540 N84-20090 #

RJ-4152(45940) ..... 12 p1908 N84-22427 #
RJ-4306 ..... 19 p3100 N84-29690 #
RJ-4312 ..... 19 p3104 N84-29720 #
RJ-4391 ..... 24 p3912 N84-34775 #
RJ-4392 ..... 24 p3964 N84-35101 #

RKW-836 ..... 16 p2497 N84-26019

RL-8845 ..... 11 p1667 N84-20877 #

RLE-PR-126 ..... 22 p3681 N84-33336 #

RLE-125 ..... 06 p0926 N84-16016 #

RLO-2229-T6-9 ..... 02 p0250 N84-11636 #

RLS-TR-560-2 ..... 01 p0099 N84-10643* #

RMCS-TR-D/R/2 ..... 10 p1458 N84-19525 #

RN-84-64 ..... 14 p2247 N84-24491 #

ROE-OR-12 ..... 18 p2947 N84-28683 #

ROLLAB-MEMO-RM-096 ..... 06 p0792 N84-15161 #

RP/5/82 ..... 11 p1639 N84-20716 #

RPA-131 ..... 02 p0284 N84-11863 #

RPF-3562/1 ..... 12 p1844 N84-22023 #
RPF-3562/2 ..... 12 p1844 N84-22024 #

RPI-MATH-139 ..... 09 p1386 N84-19055 #

RPI-METAL-FORMING-8/83 ..... 11 p1669 N84-20887 #

RPI-142 ..... 19 p3099 N84-29688 #

RR-U3-04435 ..... 01 p0099 N84-10646* #

RR-41 ..... 08 p1095 N84-17121 #
RR-82-1-ONR ..... 02 p0280 N84-11834 #
RR-82-2-ONR ..... 03 p0416 N84-12721 #
RR-83-SM-9 ..... 03 p0389 N84-12536 #
RR-83-SM-10 ..... 03 p0425 N84-12786 #
RR-83-1 ..... 10 p1569 N84-20280 #
RR-83-2-ONR ..... 11 p1713 N84-21173 #
RR-83-3-ONR ..... 11 p1713 N84-21170 #
RR-145 ..... 08 p1189 N84-17746 #
RR-215 ..... 19 p3003 N84-29031 #
RR-222 ..... 03 p0426 N84-12795 #
RR-225 ..... 18 p2923 N84-28536 #
RR-227 ..... 05 p0738 N84-14849 #
RR-228 ..... 14 p2219 N84-24318 #
RR-230 ..... 05 p0688 N84-14524 #
RR-231 ..... 05 p0733 N84-14812 #
RR-232 ..... 05 p0739 N84-14850 #
RR-233 ..... 13 p1974 N84-22811 #
RR-234 ..... 13 p1975 N84-22816 #
RR-235 ..... 13 p2038 N84-23222 #
RR-236 ..... 13 p2031 N84-23166 #
RR-238 ..... 13 p1974 N84-22812 #
RR-239 ..... 13 p1975 N84-22817 #
RR-240 ..... 13 p2034 N84-23196 #
RR-241 ..... 13 p2031 N84-23167 #
RR-245 ..... 18 p2922 N84-28533 #
RR-246 ..... 18 p2926 N84-28559 #
RR-247-PT-1 ..... 20 p3171 N84-30134 #
RR-248 ..... 20 p3267 N84-30733 #
RR-249 ..... 18 p2926 N84-28560 #
RR-250 ..... 20 p3284 N84-30852 #
RR-251-PT-1 ..... 20 p3283 N84-30844 #
RR-252-PT-2 ..... 20 p3283 N84-30845 #

RRC-83-4-905 ..... 02 p0180 N84-11175 #

RRI-T-2/511-3-00 ..... 09 p1301 N84-18504 #

RRL-PUB-526 ..... 06 p0849 N84-15535* #
RRL-PUB-527 ..... 11 p1662 N84-20842* #

RRR-83-1 ..... 01 p0099 N84-10646* #

RS-235/84 ..... 18 p2931 N84-28587 #

RSC-134 ..... 13 p2005 N84-23006* #
RSC-138 ..... 13 p2005 N84-23007* #
RSC-3458-130-VOL-2 ..... 06 p0864 N84-15629* #
RSC-4854 ..... 17 p2710 N84-27255* #

RSD-TR-17-83 ..... 10 p1555 N84-20191 #

RSG-PG-P40629 ..... 22 p3576 N84-32650* #

RSG-306-78 ..... 24 p3894 N84-34657 #
RSG-306-84 ..... 24 p3894 N84-34657 #
RSG-308-84 ..... 15 p2270 N84-24631 #

RSL-TM-587-1 ..... 08 p1173 N84-17642* #

RSL-TR-340-1 ..... 02 p0236 N84-11547* #
RSL-TR-485 ..... 07 p0993 N84-16440 #

RSL-601-1 ..... 04 p0552 N84-13635* #

RSRE-MEMO-3582 ..... 03 p0366 N84-12378
RSRE-MEMO-3583 ..... 03 p0418 N84-12729
RSRE-MEMO-3585 ..... 03 p0420 N84-12741
RSRE-MEMO-3597 ..... 03 p0366 N84-12379
RSRE-MEMO-3608 ..... 09 p1317 N84-18605
RSRE-MEMO-3615 ..... 12 p1805 N84-21766
RSRE-MEMO-3623 ..... 09 p1372 N84-18957
RSRE-MEMO-3625 ..... 15 p2407 N84-25448
RSRE-MEMO-3632 ..... 16 p2483 N84-25923
RSRE-MEMO-3643 ..... 14 p2139 N84-23826 #
RSRE-MEMO-3644 ..... 15 p2396 N84-25373
RSRE-MEMO-3670 ..... 22 p3600 N84-32806 #

RSRE-83004 ..... 16 p2485 N84-25935 #
RSRE-83009 ..... 10 p1563 N84-20239 #
RSRE-83010-PT-1 ..... 15 p2318 N84-24916

RTCA/DO-139 ..... 11 p1642 N84-20734 #
RTCA/DO-156 ..... 11 p1642 N84-20734 #
RTCA/DO-157 ..... 11 p1642 N84-20734 #
RTCA/DO-185-VOL-1 ..... 16 p2445 N84-25685 #
RTCA/DO-185-VOL-2 ..... 16 p2445 N84-25686 #
RTCA/DO-186 ..... 11 p1642 N84-20734 #

RTI/2095/00-01-F ..... 08 p1104 N84-17178* #
RTI/2467 ..... 17 p2604 N84-26685* #

RU-TR-160-MAE-F ..... 13 p1990 N84-22916 #

RUB-IFM-MITT-33-PT-1 ..... 10 p1490 N84-19740
RUB-IFM-MITT-34 ..... 06 p0857 N84-15582

R81-915395-12 ..... 11 p1753 N84-21445* #
R81AEG282 ..... 23 p3695 N84-33417* #
R82AEB436 ..... 23 p3695 N84-33416* #
R82AEB491-VOL-1 ..... 22 p3652 N84-33148* #
R82AEB491-VOL-2 ..... 22 p3652 N84-33149* #
R82AEB491-VOL-3 ..... 22 p3652 N84-33150* #
R82AEB494 ..... 19 p3096 N84-29661* #
R82AEB532 ..... 02 p0179 N84-11170* #
R83-49-APP-A-E ..... 17 p2611 N84-26711 #
R83-49-APP-A-E ..... 17 p2611 N84-26712 #
R83-900011-F ..... 05 p0679 N84-14462* #
R83-910002-F ..... 10 p1493 N84-19763 #
R83-912666-58 ..... 03 p0320 N84-12091* #
R83-915540-26 ..... 08 p1156 N84-17530* #
R83-956077-1 ..... 01 p0094 N84-10613* #
R83-956077-2 ..... 01 p0094 N84-10614* #
R83-956149-16 ..... 23 p3689 N84-33378* #
R83-956152-10 ..... 03 p0343 N84-12225* #
R83AEB358-VOL-1 ..... 14 p2220 N84-24323* #
R83AEB358-VOL-2 ..... 14 p2220 N84-24324* #
R83AEB637 ..... 22 p3586 N84-32714 #
R83EMH002 ..... 05 p0669 N84-14401 #
R84-900027F ..... 19 p3020 N84-29152* #
R84-956393-8 ..... 22 p3531 N84-32355* #
R84AEB012 ..... 15 p2261 N84-24580* #
R84AEB422 ..... 15 p2295 N84-24774* #
R664 ..... 06 p0796 N84-15186 #
R857/2 ..... 06 p0919 N84-15971
R878 ..... 12 p1790 N84-21675 #
R0184-002 ..... 11 p1622 N84-20618* #
R0184-002 ..... 11 p1622 N84-20619*
R8310-6-VOL-1 ..... 06 p0794 N84-15174* #
R8310-6-VOL-2-PT-1 ..... 06 p0794 N84-15175* #
R8310-6-VOL-2-PT-2 ..... 06 p0794 N84-15176* #
R8310-6-VOL-3 ..... 06 p0794 N84-15177* #

S-REPT-98-221-PT-2 ..... 11 p1752 N84-21439 #
S-REPT-98-260 ..... 14 p2248 N84-24503 #
S-REPT-98-455 ..... 14 p2249 N84-24506 #
S-REPT-98-455 ..... 14 p2249 N84-24507 #
S-REPT-98-479 ..... 14 p2248 N84-24504 #
S-REPT-98-506 ..... 16 p2568 N84-26476 #
S-REPT-98-506 ..... 16 p2568 N84-26478 #
S-REPT-98-523 ..... 11 p1621 N84-20613 #
S-REPT-98-565 ..... 10 p1471 N84-19605 #

S-179-01-VOL-2 ..... 12 p1809 N84-21794 #
S-242-TP ..... 02 p0299 N84-11966 #
S-530 ..... 07 p0953 N84-16182* #
S-531 ..... 05 p0758 N84-14973* #
S-533 ..... 16 p2544 N84-26328* #
S-534 ..... 18 p2899 N84-28392* #
S-536 ..... 21 p3430 N84-31762* #
S-537 ..... 20 p3259 N84-30684* #
S-538 ..... 21 p3457 N84-31935* #
S-1585 ..... 04 p0486 N84-13195* #
S-3057 ..... 02 p0212 N84-11387* #

S/DT/YA-25-030-VOL-1 ..... 08 p1120 N84-17282 #
S/DT/YA-25-030-VOL-2 ..... 08 p1120 N84-17283 #

S/T-REPT-VOL-1-NO-1 ..... 20 p3159 N84-30060 #
S/T-REPT-VOL-1-NO-2 ..... 20 p3188 N84-30254 #
S/T-REPT-VOL-1-NO-3 ..... 20 p3265 N84-30718 #
S/T-REPT-VOL-1-NO-4 ..... 20 p3204 N84-30352 #
S/T-REPT-VOL-1-NO-5 ..... 20 p3238 N84-30558 #

SA-SPP-RP008-VOL-2-BK-1-PT-2 ..... 09 p1270 N84-18297* #

SA-SSP-RP007 ..... 18 p2806 N84-27816* #

SA-SSP-RP008-VOL-2-BK-1-PT-1 ..... 09 p1270 N84-18296* #
SA-SSP-RP008-VOL-2-BK-1-PT-3 ..... 09 p1270 N84-18298* #
SA-SSP-RP008-VOL-2-BK-1-PT-4 ..... 09 p1270 N84-18299* #
SA-SSP-RP008-VOL-2-BK-2-PT-1 ..... 09 p1270 N84-18300* #
SA-SSP-RP008-VOL-2-BK-2-PT-2 ..... 09 p1271 N84-18301* #
SA-SSP-RP008-VOL-2-BK-2-PT-3 ..... 09 p1271 N84-18302* #
SA-SSP-RP008-VOL-2-BK-2-PT-4 ..... 09 p1271 N84-18303* #
SA-SSP-RP008-VOL-2-BK-3 ..... 09 p1271 N84-18304* #
SA-SSP-RP009-PT-1 ..... 09 p1267 N84-18270* #

SAALC/MM-8149 ..... 11 p1606 N84-20519 #

SABCA-JPM/LN/HO5/N117 ..... 18 p2807 N84-27822 #

SACLANTCEN-SM-170 ..... 20 p3228 N84-30512 #

SACLANTCEN-SR-74 ..... 10 p1540 N84-20068 #
SACLANTCEN-SR-79 ..... 20 p3290 N84-30890 #

SAE-TPS-831144 ..... 16 p2563 N84-26442

SAI-A-120-340-S15 ..... 13 p1936 N84-22595* #

SAI-PL/MFE-2D-2-83 ..... 02 p0281 N84-11842 #

SAI-1-120-768-A9 ..... 13 p1936 N84-22591* #
SAI-1-120-768-C9 ..... 13 p1936 N84-22590* #
SAI-1-141-00-0374-00 ..... 05 p0764 N84-15012* #
SAI-58-EF81-156R2 ..... 08 p1202 N84-17835 #
SAI-82-1014/PRI-63 ..... 04 p0541 N84-13561 #
SAI-83-01-APP-A-E ..... 17 p2611 N84-26711 #
SAI-83-01-APP-A-E ..... 17 p2611 N84-26712 #
SAI-83-002-DAY ..... 01 p0100 N84-10648* #
SAI-83-1033/PRI-84 ..... 04 p0607 N84-14007 #
SAI-83-1034/PRI-85 ..... 04 p0606 N84-13999 #
SAI-83-1124/PRI-86 ..... 09 p1323 N84-18642 #
SAI-83-1147 ..... 14 p2230 N84-24373 #
SAI-83/1010 ..... 05 p0736 N84-14831 #
SAI-83/1139 ..... 09 p1300 N84-18496 #
SAI-83/1151 ..... 13 p1936 N84-22593* #
SAI-83/1152 ..... 13 p1936 N84-22592* #
SAI-83/1239 ..... 08 p1190 N84-17757 #
SAI-83/1321 ..... 14 p2181 N84-24065 #
SAI-83/1421 ..... 15 p2280 N84-24696 #
SAI-84-02-157 ..... 22 p3630 N84-33006 #
SAI-84-176-WA ..... 01 p0147 N84-10963 #
SAI-84-235-WA ..... 15 p2410 N84-25465 #
SAI-84-982-WA ..... 10 p1575 N84-20321 #
SAI-84-1027 ..... 14 p2183 N84-24082 #
SAI-84-1572 ..... 20 p3262 N84-30840 #
SAI-84-3011 ..... 13 p2045 N84-23273 #
SAI-84-3032 ..... 21 p3501 N84-32189 #
SAI-84-3033/PRI-77 ..... 20 p3306 N84-30999 #
SAI-84/1029 ..... 14 p2176 N84-24034 #
SAI-84/1093 ..... 20 p3184 N84-30228 #
SAI-84/1142 ..... 21 p3446 N84-31863* #
SAI-84/1305 ..... 24 p3920 N84-34813 #
SAI-84/1554 ..... 20 p3240 N84-30572 #
SAI-067-84R-001 ..... 08 p1159 N84-17545 #
SAI-102-83-07 ..... 19 p3054 N84-29360 #
SAI-02383-454LJ/APPAT-4 ..... 04 p0609 N84-14019 #
SAI-02383-468LJ ..... 03 p0449 N84-12953 #

SAI/APPAT-29 ..... 07 p1076 N84-16996 #

SAI/NW-83-426-06 ..... 07 p1032 N84-16698* #

SAI/PR-TR-13 ..... 06 p0834 N84-15425* #

SAM-TR-82-47 ..... 04 p0572 N84-13771 #
SAM-TR-83-14 ..... 03 p0372 N84-12423 #
SAM-TR-83-17-VOL-1 ..... 06 p0885 N84-15756 #
SAM-TR-83-18 ..... 09 p1361 N84-18891 #
SAM-TR-83-19 ..... 09 p1361 N84-18890 #
SAM-TR-83-24 ..... 06 p0934 N84-16068 #
SAM-TR-83-26 ..... 09 p1398 N84-19132 #
SAM-TR-83-30 ..... 03 p0414 N84-12707 #
SAM-TR-83-32 ..... 09 p1364 N84-18906 #
SAM-TR-83-33 ..... 06 p0886 N84-15760 #
SAM-TR-83-35 ..... 09 p1279 N84-18354 #
SAM-TR-83-44 ..... 10 p1547 N84-20141 #

SAND-80-2689-REV-1 ..... 03 p0378 N84-12459 #
SAND-82-0002 ..... 03 p0373 N84-12428 #
SAND-82-1016 ..... 08 p1172 N84-17633 #
SAND-82-1040 ..... 04 p0550 N84-13622 #
SAND-82-1425 ..... 04 p0528 N84-13474 #
SAND-82-1479 ..... 02 p0196 N84-11276 #
SAND-82-1730C ..... 11 p1659 N84-20825 #
SAND-82-1778C ..... 03 p0353 N84-12293 #
SAND-82-1792C ..... 07 p1010 N84-16551 #
SAND-82-1864C ..... 03 p0350 N84-12278 #
SAND-82-1877C ..... 11 p1657 N84-20811 #
SAND-82-1947C ..... 01 p0090 N84-10588 #
SAND-82-1962C ..... 01 p0081 N84-10529 #
SAND-82-1971C ..... 19 p3037 N84-29263 #
SAND-82-2186 ..... 02 p0232 N84-11521 #
SAND-82-2213C ..... 01 p0051 N84-10329 #
SAND-82-2237C ..... 03 p0356 N84-12316 #
SAND-82-2300C ..... 03 p0377 N84-12457 #
SAND-82-2498 ..... 04 p0502 N84-13290 #
SAND-82-2534 ..... 14 p2159 N84-23932 #
SAND-82-2534C ..... 03 p0389 N84-12537 #
SAND-82-2543 ..... 06 p0861 N84-15613 #
SAND-82-2553C ..... 02 p0229 N84-11504 #
SAND-82-2770C ..... 02 p0215 N84-11409 #
SAND-82-2772 ..... 02 p0219 N84-11438 #
SAND-82-2788C ..... 01 p0153 N84-11009 #
SAND-82-2903C ..... 04 p0507 N84-13323 #
SAND-82-2979C ..... 02 p0200 N84-11304 #
SAND-82-2981 ..... 04 p0582 N84-13840 #
SAND-82-2983C ..... 03 p0453 N84-12980 #
SAND-82-7068-2 ..... 19 p3051 N84-29362 #
SAND-82-7131 ..... 11 p1675 N84-20930 #
SAND-82-7151 ..... 13 p2009 N84-23032 #
SAND-82-8036 ..... 07 p1026 N84-16648 #
SAND-83-0009C ..... 01 p0072 N84-10473 #
SAND-83-0011 ..... 04 p0582 N84-13846 #
SAND-83-0046C ..... 01 p0072 N84-10474 #
SAND-83-0086 ..... 01 p0134 N84-10881 #
SAND-83-0100C ..... 01 p0148 N84-10971 #
SAND-83-0101C ..... 02 p0214 N84-11403 #
SAND-83-0108C ..... 01 p0087 N84-10570 #
SAND-83-0115C ..... 03 p0437 N84-12866 #
SAND-83-0121C ..... 01 p0071 N84-10465 #
SAND-83-0122C ..... 01 p0073 N84-10477 #
SAND-83-0125C ..... 02 p0290 N84-11900 #
SAND-83-0142C ..... 03 p0390 N84-12543 #
SAND-83-0151C ..... 02 p0291 N84-11906 #
SAND-83-0197 ..... 02 p0226 N84-11483 #
SAND-83-0212C ..... 02 p0290 N84-11901 #
SAND-83-0223C ..... 04 p0527 N84-13465 #
SAND-83-0228C ..... 03 p0366 N84-12385 #
SAND-83-0260C ..... 03 p0369 N84-12402 #
SAND-83-0263 ..... 04 p0538 N84-13541 #
SAND-83-0270C ..... 01 p0087 N84-10571 #
SAND-83-0294C ..... 02 p0299 N84-11965 #
SAND-83-0351C ..... 01 p0073 N84-10475 #
SAND-83-0384 ..... 01 p0038 N84-10241 #
SAND-83-0391 ..... 11 p1672 N84-20910 #
SAND-83-0412C ..... 03 p0369 N84-12400 #
SAND-83-0414 ..... 01 p0074 N84-10489 #
SAND-83-0429C ..... 08 p1152 N84-17500 #
SAND-83-0432 ..... 08 p1100 N84-17151 #
SAND-83-0432C ..... 12 p1766 N84-21518 #
SAND-83-0447C ..... 02 p0269 N84-11764 #
SAND-83-0462C ..... 03 p0372 N84-12424 #
SAND-83-0479 ..... 19 p3019 N84-29139 #
SAND-83-0537C ..... 01 p0154 N84-11016 #
SAND-83-0541C ..... 04 p0610 N84-14029 #
SAND-83-0564C ..... 04 p0608 N84-14010 #
SAND-83-0575C ..... 03 p0448 N84-12945 #
SAND-83-0576C ..... 03 p0454 N84-12986 #
SAND-83-0590C ..... 04 p0597 N84-13940 #
SAND-83-0591C ..... 06 p0924 N84-16008 #
SAND-83-0595C ..... 01 p0074 N84-10487 #
SAND-83-0604 ..... 02 p0242 N84-11587 #
SAND-83-0607C ..... 04 p0598 N84-13949 #
SAND-83-0608C ..... 04 p0597 N84-13939 #
SAND-83-0609C ..... 04 p0608 N84-14012 #
SAND-83-0610C ..... 04 p0599 N84-13951 #
SAND-83-0611C ..... 03 p0447 N84-12942 #
SAND-83-0612C ..... 03 p0447 N84-12943 #
SAND-83-0615C ..... 02 p0271 N84-11771 #
SAND-83-0617C ..... 03 p0436 N84-12857 #
SAND-83-0620C ..... 03 p0447 N84-12941 #
SAND-83-0629C ..... 05 p0745 N84-14893 #
SAND-83-0637 ..... 03 p0419 N84-12735 #
SAND-83-0641 ..... 02 p0201 N84-11310 #
SAND-83-0643 ..... 02 p0282 N84-11851 #
SAND-83-0663C ..... 21 p3501 N84-32187 #
SAND-83-0665C ..... 03 p0384 N84-12503 #
SAND-83-0730 ..... 01 p0080 N84-10519 #
SAND-83-0739C ..... 02 p0215 N84-11412 #
SAND-83-0756 ..... 15 p2288 N84-24726 #
SAND-83-0773C ..... 02 p0196 N84-11275 #
SAND-83-0784 ..... 02 p0195 N84-11266 #
SAND-83-0785C ..... 02 p0188 N84-11223 #
SAND-83-0790C ..... 01 p0155 N84-11024 #
SAND-83-0804C ..... 05 p0755 N84-14954 #
SAND-83-0812C ..... 02 p0293 N84-11919 #
SAND-83-0838 ..... 21 p3496 N84-32155 #
SAND-83-0854C ..... 02 p0220 N84-11443 #
SAND-83-0859C ..... 14 p2128 N84-23760 #
SAND-83-0882C ..... 08 p1221 N84-17973 #
SAND-83-0912C ..... 03 p0442 N84-12901 #
SAND-83-0919C ..... 01 p0088 N84-10577 #
SAND-83-0936-PT-1 ..... 02 p0283 N84-11855* #
SAND-83-0938C ..... 02 p0204 N84-11330 #
SAND-83-0941C ..... 03 p0450 N84-12982 #
SAND-83-0957 ..... 05 p0676 N84-14446 #
SAND-83-0971 ..... 04 p0546 N84-13597 #

SAND-83-0974C ..... 02 p0232 N84-11524 #
SAND-83-0979C ..... 07 p0998 N84-16473 #
SAND-83-1021C ..... 15 p2363 N84-25178 #
SAND-83-1043C ..... 04 p0536 N84-13523 #
SAND-83-1045C ..... 04 p0529 N84-13481 #
SAND-83-1046C ..... 03 p0455 N84-12998 #
SAND-83-1065C ..... 03 p0461 N84-13039* #
SAND-83-1081 ..... 12 p1813 N84-21818 #
SAND-83-1082C ..... 07 p0998 N84-16471 #
SAND-83-1106C ..... 01 p0148 N84-10974 #
SAND-83-1120C ..... 04 p0544 N84-13585 #
SAND-83-1123 ..... 02 p0295 N84-11934 #
SAND-83-1124C ..... 01 p0096 N84-10628 #
SAND-83-1141C ..... 08 p1165 N84-17584 #
SAND-83-1148C ..... 03 p0390 N84-12544 #
SAND-83-1194C ..... 01 p0154 N84-11010 #
SAND-83-1216C ..... 02 p0304 N84-11995 #
SAND-83-1222C ..... 14 p2149 N84-23873 #
SAND-83-1230 ..... 03 p0455 N84-12994 #
SAND-83-1234C ..... 07 p0975 N84-16318 #
SAND-83-1239C ..... 01 p0150 N84-10986 #
SAND-83-1244 ..... 02 p0201 N84-11312 #
SAND-83-1254C ..... 05 p0656 N84-14311 #
SAND-83-1265 ..... 03 p0421 N84-12753 #
SAND-83-1273C ..... 03 p0357 N84-12322 #
SAND-83-1278C ..... 06 p0811 N84-15260 #
SAND-83-1291C ..... 07 p0968 N84-16273 #
SAND-83-1303C ..... 04 p0600 N84-13960 #
SAND-83-1316C ..... 03 p0436 N84-12858 #
SAND-83-1325 ..... 02 p0215 N84-11411 #
SAND-83-1334C ..... 04 p0541 N84-13563 #
SAND-83-1341C ..... 03 p0445 N84-12921 #
SAND-83-1346 ..... 09 p1379 N84-19010 #
SAND-83-1356C ..... 14 p2120 N84-23707 #
SAND-83-1359C ..... 01 p0155 N84-11021 #
SAND-83-1372C ..... 04 p0549 N84-13619 #
SAND-83-1376C ..... 10 p1505 N84-19837 #
SAND-83-1381C ..... 03 p0353 N84-12296 #
SAND-83-1388C ..... 07 p0972 N84-16299 #
SAND-83-1392C ..... 07 p1003 N84-16502 #
SAND-83-1398C ..... 07 p1081 N84-17032 #
SAND-83-1400C ..... 07 p1081 N84-17031 #
SAND-83-1401C ..... 07 p1055 N84-16835 #
SAND-83-1416C ..... 13 p1996 N84-22953 #
SAND-83-1418C ..... 07 p1082 N84-17035 #
SAND-83-1422C ..... 08 p1235 N84-18075 #
SAND-83-1423C ..... 08 p1133 N84-17371 #
SAND-83-1429C ..... 05 p0755 N84-14955 #
SAND-83-1440C ..... 07 p0999 N84-16478 #
SAND-83-1474C ..... 02 p0228 N84-11494 #
SAND-83-1485C ..... 02 p0223 N84-11465 #
SAND-83-1493C ..... 11 p1709 N84-21141 #
SAND-83-1506 ..... 05 p0688 N84-14522 #
SAND-83-1518C ..... 02 p0270 N84-11766 #
SAND-83-1519 ..... 21 p3501 N84-32187 #
SAND-83-1522C ..... 20 p3291 N84-30896 #
SAND-83-1523 ..... 11 p1647 N84-20771 #
SAND-83-1567C ..... 07 p1082 N84-17034 #
SAND-83-1590 ..... 06 p0879 N84-15717 #
SAND-83-1592C ..... 02 p0201 N84-11311 #
SAND-83-1604C ..... 01 p0125 N84-10812 #
SAND-83-1621C ..... 08 p1233 N84-18061 #
SAND-83-1631C ..... 07 p1004 N84-16509 #
SAND-83-1636C ..... 06 p0783 N84-15129 #
SAND-83-1639C ..... 05 p0754 N84-14949 #
SAND-83-1647C ..... 08 p1136 N84-17388* #
SAND-83-1652 ..... 20 p3175 N84-30161 #
SAND-83-1655A ..... 02 p0242 N84-11586 #
SAND-83-1657C ..... 06 p0924 N84-16006 #
SAND-83-1670 ..... 20 p3275 N84-30788 #
SAND-83-1686C ..... 14 p2120 N84-23708 #
SAND-83-1690C ..... 20 p3157 N84-30046 #
SAND-83-1693C ..... 05 p0655 N84-14308 #
SAND-83-1714C ..... 06 p0807 N84-15258 #
SAND-83-1753C ..... 13 p1927 N84-22541 #
SAND-83-1766C ..... 20 p3203 N84-30346 #
SAND-83-1769C ..... 03 p0368 N84-12393 #
SAND-83-1773C ..... 04 p0602 N84-13977 #
SAND-83-1789 ..... 11 p1654 N84-20799 #
SAND-83-1844C ..... 04 p0536 N84-13522 #
SAND-83-1864 ..... 18 p2812 N84-27851 #
SAND-83-1874C ..... 11 p1704 N84-21109 #
SAND-83-1887 ..... 05 p0651 N84-14279 #
SAND-83-1889 ..... 21 p3423 N84-31715 #
SAND-83-1898 ..... 04 p0563 N84-13714 #
SAND-83-1902C ..... 03 p0431 N84-12823 #
SAND-83-1907 ..... 05 p0656 N84-14316 #
SAND-83-1929 ..... 15 p2305 N84-24826 #
SAND-83-1949C ..... 20 p3164 N84-30095 #
SAND-83-1963C ..... 04 p0599 N84-13954 #
SAND-83-1976C ..... 18 p2819 N84-27899 #
SAND-83-1992C ..... 03 p0448 N84-12944 #
SAND-83-2004 ..... 09 p1289 N84-18415 #
SAND-83-2013C ..... 06 p0783 N84-15128 #
SAND-83-2038 ..... 11 p1704 N84-21110 #
SAND-83-2064C ..... 14 p2151 N84-23888 #
SAND-83-2079 ..... 07 p1064 N84-16901 #
SAND-83-2084C ..... 04 p0508 N84-13328 #
SAND-83-2094C ..... 04 p0493 N84-13239 #
SAND-83-2109C ..... 04 p0535 N84-13515 #
SAND-83-2134C ..... 04 p0503 N84-13297 #
SAND-83-2135C ..... 04 p0556 N84-13655 #
SAND-83-2148C ..... 06 p0924 N84-16004 #
SAND-83-2170C ..... 19 p3112 N84-29776 #
SAND-83-2171C ..... 22 p3560 N84-32547 #
SAND-83-2205 ..... 19 p3116 N84-29803 #
SAND-83-2218 ..... 11 p1661 N84-20836 #
SAND-83-2219C ..... 04 p0559 N84-13687 #
SAND-83-2233C ..... 20 p3246 N84-30602 #
SAND-83-2254C ..... 20 p3181 N84-30211 #
SAND-83-2262 ..... 12 p1895 N84-22345 #
SAND-83-2267C ..... 06 p0830 N84-15403 #
SAND-83-2273C ..... 21 p3395 N84-31542 #
SAND-83-2276C ..... 07 p1082 N84-17036 #
SAND-83-2277C ..... 05 p0755 N84-14952 #
SAND-83-2287C ..... 20 p3298 N84-30945 #
SAND-83-2298C ..... 06 p0831 N84-15406 #
SAND-83-2301/2 ..... 22 p3589 N84-32732 #
SAND-83-2306C ..... 20 p3180 N84-30199 #
SAND-83-2313C ..... 07 p0971 N84-16292 #
SAND-83-2324C ..... 12 p1844 N84-22020 #
SAND-83-2325 ..... 11 p1717 N84-21198 #
SAND-83-2326C ..... 09 p1316 N84-18600* #
SAND-83-2334 ..... 14 p2141 N84-23840 #
SAND-83-2358C ..... 22 p3595 N84-32770 #
SAND-83-2382C ..... 07 p1078 N84-17007 #
SAND-83-2416C ..... 11 p1672 N84-20908 #
SAND-83-2417C ..... 08 p1181 N84-17692 #
SAND-83-2464 ..... 23 p3725 N84-33604 #
SAND-83-2477 ..... 14 p2149 N84-23875 #
SAND-83-2496C ..... 22 p3641 N84-33085 #
SAND-83-2506 ..... 20 p3202 N84-30342 #
SAND-83-2540C ..... 10 p1501 N84-19809 #
SAND-83-2560 ..... 11 p1716 N84-21193 #
SAND-83-2564C ..... 19 p3018 N84-29138 #
SAND-83-2573 ..... 20 p3158 N84-30055 #
SAND-83-2575 ..... 15 p2418 N84-25521 #
SAND-83-2576 ..... 20 p3150 N84-30002 #
SAND-83-2606 ..... 12 p1895 N84-22344 #
SAND-83-2641C ..... 20 p3306 N84-30997 #
SAND-83-2653C ..... 20 p3149 N84-29997 #
SAND-83-2655C ..... 11 p1745 N84-21386 #
SAND-83-2665C ..... 11 p1645 N84-20753 #
SAND-83-2670 ..... 20 p3164 N84-30094 #
SAND-83-2917C ..... 03 p0355 N84-12306 #
SAND-83-7020 ..... 08 p1180 N84-17689 #
SAND-83-7021 ..... 04 p0558 N84-13678 #
SAND-83-7022 ..... 07 p1026 N84-16649 #
SAND-83-7023 ..... 19 p3000 N84-29013 #
SAND-83-7024 ..... 04 p0558 N84-13679 #
SAND-83-7026 ..... 13 p2000 N84-23031 #
SAND-83-7029 ..... 03 p0321 N84-12097 #
SAND-83-7090 ..... 02 p0214 N84-11401 #
SAND-83-7091C ..... 03 p0369 N84-12403 #
SAND-83-7108 ..... 04 p0527 N84-13463 #
SAND-83-7122 ..... 04 p0528 N84-13473 #
SAND-83-7459 ..... 14 p2173 N84-24012 #
SAND-83-7460 ..... 15 p2363 N84-25177 #
SAND-83-7476C ..... 11 p1647 N84-20773 #
SAND-83-8011 ..... 18 p2853 N84-28118 #
SAND-83-8024 ..... 05 p0688 N84-14521 #
SAND-83-8025 ..... 03 p0378 N84-12458 #
SAND-83-8029 ..... 04 p0582 N84-13839 #
SAND-83-8043 ..... 21 p3406 N84-31606 #
SAND-83-8177 ..... 18 p2953 N84-28716 #
SAND-83-8223 ..... 01 p0046 N84-10293 #
SAND-83-8225 ..... 03 p0373 N84-12429 #
SAND-83-8226 ..... 03 p0373 N84-12431 #
SAND-83-8229 ..... 01 p0081 N84-10527 #
SAND-83-8239 ..... 11 p1634 N84-20685 #
SAND-83-8244 ..... 05 p0651 N84-14280 #
SAND-83-8253 ..... 11 p1709 N84-21142 #
SAND-83-8871 ..... 14 p2148 N84-23869 #
SAND-83-00290 ..... 01 p0046 N84-10294 #
SAND-83-01610 ..... 01 p0085 N84-10549 #
SAND-83-06540 ..... 02 p0224 N84-11470 #
SAND-83-14320 ..... 02 p0232 N84-11522 #
SAND-83-25679C ..... 11 p1745 N84-21390 #
SAND-84-0024C ..... 12 p1863 N84-22139 #
SAND-84-0026C ..... 14 p2142 N84-23845 #
SAND-84-0053C ..... 21 p3435 N84-31797 #
SAND-84-0055C ..... 19 p2995 N84-28980 #
SAND-84-0064C ..... 21 p3401 N84-31574 #
SAND-84-0075 ..... 19 p3018 N84-29137 #
SAND-84-0081C ..... 20 p3235 N84-30532 #
SAND-84-0095C ..... 22 p3654 N84-33164 #
SAND-84-0111C ..... 21 p3505 N84-32209 #
SAND-84-0117 ..... 21 p3494 N84-32144 #
SAND-84-0210C ..... 15 p2359 N84-25157 #
SAND-84-0231 ..... 23 p3817 N84-34202 #
SAND-84-0244C ..... 22 p3619 N84-32931 #
SAND-84-0248C ..... 22 p3599 N84-32796 #

SAND-84-0269C ..... 22 p3589 N84-32735 #
SAND-84-0281 ..... 20 p3274 N84-30782 #
SAND-84-0302 ..... 20 p3282 N84-30834 #
SAND-84-0311 ..... 20 p3273 N84-30778 #
SAND-84-0317C ..... 15 p2393 N84-25361 #
SAND-84-0341 ..... 19 p3090 N84-29621 #
SAND-84-0348C ..... 15 p2258 N84-24563 #
SAND-84-0353C ..... 22 p3548 N84-32461 #
SAND-84-0383C ..... 18 p2945 N84-28677 #
SAND-84-0397 ..... 20 p3197 N84-30306 #
SAND-84-0406C ..... 20 p3309 N84-31017 #
SAND-84-0413 ..... 15 p2363 N84-25180 #
SAND-84-0432 ..... 20 p3203 N84-30348 #
SAND-84-0448 ..... 20 p3283 N84-30842 #
SAND-84-0455C ..... 23 p3755 N84-33802 #
SAND-84-0477 ..... 20 p3308 N84-31007 #
SAND-84-0479C ..... 22 p3649 N84-33134 #
SAND-84-0485C ..... 22 p3562 N84-32558 #
SAND-84-0510 ..... 20 p3164 N84-30091 #
SAND-84-0520C ..... 21 p3394 N84-31537 #
SAND-84-0525C ..... 21 p3504 N84-32208 #
SAND-84-0565C ..... 21 p3422 N84-31709 #
SAND-84-0579C ..... 21 p3435 N84-31791 #
SAND-84-0581C ..... 20 p3315 N84-31054 #
SAND-84-0632C ..... 21 p3435 N84-31792 #
SAND-84-0684C ..... 21 p3394 N84-31538 #
SAND-84-0685C ..... 20 p3161 N84-30206 #
SAND-84-0703 ..... 22 p3618 N84-32927 #
SAND-84-0708 ..... 21 p3368 N84-31364 #
SAND-84-0760C ..... 18 p2812 N84-27850 #
SAND-84-0765C ..... 20 p3274 N84-30785 #
SAND-84-0771 ..... 21 p3499 N84-32176 #
SAND-84-0812 ..... 22 p3646 N84-33123 #
SAND-84-0836C ..... 18 p2945 N84-28676 #
SAND-84-0919C ..... 20 p3315 N84-31053 #
SAND-84-0924C ..... 21 p3423 N84-31713 #
SAND-84-0972 ..... 22 p3564 N84-32572 #
SAND-84-0982C ..... 22 p3589 N84-32734 #
SAND-84-1029C ..... 21 p3499 N84-32175 #
SAND-84-1063C ..... 21 p3519 N84-32293 #
SAND-84-1074C ..... 14 p2243 N84-24466 #
SAND-84-1082C ..... 22 p3548 N84-32460 #
SAND-84-1120 ..... 22 p3612 N84-32885 #
SAND-84-1173C ..... 20 p3151 N84-30007 #
SAND-84-1199C ..... 21 p3415 N84-31658 #
SAND-84-1297C ..... 22 p3612 N84-32883 #
SAND-84-7001 ..... 22 p3532 N84-32363 #
SAND-84-7104 ..... 20 p3180 N84-30198 #
SAND-84-7105 ..... 22 p3589 N84-32736 #
SAND-84-7108 ..... 21 p3394 N84-31540 #
SAND-84-8220 ..... 21 p3360 N84-31311 #
SAND-84-8221 ..... 20 p3155 N84-30036 #
SAND-84-8650 ..... 19 p3032 N84-29233 #

SAPR-1 ..... 07 p1091 N84-17093* #
SAPR-1 ..... 16 p2529 N84-26235 #
SAPR-1 ..... 24 p3936 N84-34914* #
SAPR-2 ..... 07 p1090 N84-17089* #
SAPR-3 ..... 09 p1333 N84-18703 #
SAPR-6 ..... 08 p1242 N84-18121* #
SAPR-7 ..... 19 p3117 N84-29805* #
SAPR-19 ..... 13 p2091 N84-23543* #
SAPR-21 ..... 14 p2168 N84-23986* #
SAPR-45 ..... 08 p1122 N84-17293* #
SAPR-48 ..... 07 p0962 N84-16233* #

SAR-1 ..... 14 p2242 N84-24460 #
SAR-2 ..... 14 p2136 N84-23807* #
SAR-3 ..... 06 p0673 N84-15681* #
SAR-3 ..... 10 p1458 N84-19525 #
SAR-3 ..... 13 p2070 N84-23412* #
SAR-4 ..... 21 p3491 N84-32121* #
SAR-5 ..... 01 p0089 N84-10581* #
SAR-6 ..... 16 p2575 N84-26528* #
SAR-7 ..... 18 p2849 N84-28089* #
SAR-16 ..... 07 p1092 N84-17105* #
SAR-17 ..... 07 p1092 N84-17105* #
SAR-44 ..... 03 p0347 N84-12257* #

SARL-1 ..... 09 p1365 N84-18913 #

SAS-TR-81-03 ..... 03 p0407 N84-12666 #

SASR-2 ..... 24 p3942 N84-34957* #
SASR-3 ..... 23 p3843 N84-34385* #
SASR-4 ..... 08 p1103 N84-17171* #
SASR-5 ..... 22 p3536 N84-32389* #
SASR-11 ..... 07 p1032 N84-16699* #
SASR-14 ..... 22 p3622 N84-32951* #

SATGL-TR-83-0218 ..... 08 p1144 N84-17442 #

SATR-1 ..... 02 p0240 N84-11572 #
SATR-1 ..... 12 p1914 N84-22468 #
SATR-1 ..... 23 p3755 N84-33800 #
SATR-2 ..... 13 p2046 N84-23278 #
SATR-2 ..... 24 p3909 N84-34760 #
SATR-3 ..... 03 p0361 N84-12352 #
SATR-3 ..... 10 p1454 N84-19496 #
SATR-4 ..... 18 p2833 N84-27986 #

SA08-32667 ..... 23 p3698 N84-33434* #

SBCONR4 ..... 06 p1165 N84-17582 #

SBRC-40497 ..... 20 p3308 N84-31010 #

SC-147-VOL-1 ..... 16 p2445 N84-25685 #
SC-147-VOL-2 ..... 16 p2445 N84-25686 #
SC-4452D(M) ..... 11 p1666 N84-20868 #
SC-4452E(M) ..... 11 p1666 N84-20868 #

SCEGIT-82-107-VOL-1 ..... 01 p0058 N84-10382 #
SCEGIT-83-107-VOL-2-APP ..... 01 p0059 N84-10383 #

SCHR-KONSTR.TECH-5 ..... 19 p3028 N84-29204 #

SCIENTIFIC-1 ..... 03 p0377 N84-12452 #
SCIENTIFIC-1 ..... 11 p1644 N84-20748 #
SCIENTIFIC-2 ..... 02 p0256 N84-11675 #
SCIENTIFIC-3 ..... 01 p0104 N84-10676 #
SCIENTIFIC-4 ..... 01 p0166 N84-11092 #

SC507.61AR ..... 11 p1758 N84-21477* #
SC507.66AR ..... 11 p1758 N84-21476* #
SC5110.14QR ..... 14 p2242 N84-24461 #
SC5117.14FR ..... 01 p0049 N84-10316 #
SC5162.2SA ..... 14 p2242 N84-24460 #
SC5202.23FR ..... 10 p1588 N84-20407 #
SC5254.2FR ..... 05 p0654 N84-14297 #
SC5295.3AR ..... 24 p3889 N84-34625 #
SC5314.2FR ..... 23 p3830 N84-34295 #
SC5329.8FR ..... 20 p3153 N84-30021 #
SC5332.6FR ..... 19 p2958 N84-28751 #
SC5334.2SR ..... 08 p1232 N84-18050 #
SC5340.4SA ..... 13 p2046 N84-23278 #
SC5343.28FR ..... 23 p3713 N84-33534* #
SC5344.7FR ..... 10 p1588 N84-20405 #
SC5345.4AR ..... 19 p3111 N84-29767 #
SC5346.1FR ..... 19 p3110 N84-29763 #
SC5358.2AR ..... 17 p2624 N84-26797 #
SC5368.2FR ..... 22 p3559 N84-32539 #
SC5373.2SA ..... 12 p1914 N84-22468 #

SD-TR-83-27 ..... 01 p0121 N84-10788 #
SD-TR-83-38 ..... 02 p0226 N84-11479 #
SD-TR-83-40 ..... 05 p0685 N84-14501 #
SD-TR-83-47 ..... 02 p0190 N84-11234 #
SD-TR-83-48 ..... 04 p0521 N84-13428 #
SD-TR-83-49 ..... 02 p0210 N84-11370 #
SD-TR-83-50 ..... 02 p0175 N84-11148 #
SD-TR-83-51-PT-1 ..... 08 p1139 N84-17411 #
SD-TR-83-52 ..... 02 p0213 N84-11395 #
SD-TR-83-59 ..... 08 p1164 N84-17580 #
SD-TR-83-60 ..... 07 p1010 N84-16548 #
SD-TR-83-61 ..... 07 p0970 N84-16283 #
SD-TR-83-62 ..... 07 p0993 N84-16436 #
SD-TR-83-64 ..... 07 p1009 N84-16546 #
SD-TR-83-65 ..... 08 p1132 N84-17359 #
SD-TR-83-66 ..... 16 p2580 N84-26550* #
SD-TR-83-67 ..... 07 p0968 N84-16270 #
SD-TR-83-68 ..... 07 p0992 N84-16433 #
SD-TR-83-70 ..... 10 p1595 N84-20451 #
SD-TR-83-71 ..... 09 p1388 N84-19066 #
SD-TR-83-72 ..... 22 p3586 N84-32710 #
SD-TR-83-77 ..... 13 p1987 N84-22897 #
SD-TR-83-78 ..... 12 p1790 N84-21671 #
SD-TR-83-79 ..... 14 p2175 N84-24032 #
SD-TR-83-80 ..... 09 p1299 N84-18495 #
SD-TR-83-81 ..... 13 p2092 N84-23548 #
SD-TR-83-82 ..... 09 p1345 N84-18785 #
SD-TR-83-85 ..... 12 p1824 N84-21890 #
SD-TR-83-86 ..... 13 p2092 N84-23550 #
SD-TR-83-87 ..... 13 p2001 N84-22982 #
SD-TR-83-88 ..... 12 p1914 N84-22467 #
SD-TR-83-89 ..... 12 p1847 N84-22042 #
SD-TR-83-92 ..... 13 p1995 N84-22950 #
SD-TR-83-94 ..... 12 p1914 N84-22472 #
SD-TR-83-95 ..... 14 p2252 N84-24522* #
SD-TR-83-96 ..... 17 p2663 N84-26988 #
SD-TR-83-97 ..... 09 p1308 N84-18549 #
SD-TR-83-99 ..... 12 p1819 N84-21859 #
SD-TR-83-100 ..... 15 p2282 N84-24705 #
SD-TR-84-06-VOL-1 ..... 19 p3076 N84-29517 #
SD-TR-84-06-VOL-2 ..... 18 p2924 N84-28542 #
SD-TR-84-06-VOL-3 ..... 19 p3075 N84-29512 #
SD-TR-84-09 ..... 17 p2673 N84-27034 #
SD-TR-84-11 ..... 19 p3089 N84-29608 #
SD-TR-84-15 ..... 21 p3392 N84-31523 #
SD-TR-84-16 ..... 22 p3623 N84-32954 #
SD-TR-84-22 ..... 23 p3724 N84-33598 #

SD-84-23 ..... 23 p3844 N84-34387* #

SDL-SRL-83-2 ..... 24 p3919 N84-34810 #

SDL-82-2188-14F ..... 03 p0360 N84-12340 #

SDL/84-013 ..... 24 p3860 N84-34463 #
SDL/84-014 ..... 24 p3963 N84-35097 #

SDM-TR-18 ..... 07 p1054 N84-16824* #

SD83-BMDSCOM-2682 ..... 10 p1481 N84-19677 #

SE-34 ..... 08 p1188 N84-17744 #

SEAL-3-83 ..... 03 p0383 N84-12495* #

SEL-41 ..... 09 p1319 N84-18614 #
SEL-82-003-VOL-1 ..... 13 p2025 N84-23129*
SEL-82-003-VOL-2 ..... 13 p2025 N84-23130*
SEL-82-105 ..... 13 p2026 N84-23135* #
SEL-83-001 ..... 13 p2026 N84-23136* #
SEL-83-002 ..... 16 p2543 N84-26323* #
SEL-83-006 ..... 13 p2026 N84-23137* #
SEL-84-001 ..... 13 p2028 N84-23150* #

SEP-TS/S/194/JM/30301/81(1) ..... 08 p1113 N84-17242 #

SEP-TS/SE/BT/10457/83-PT-2 ..... 16 p2475 N84-25866 #

SER-A-96 ..... 02 p0235 N84-11540
SER-A-97 ..... 03 p0407 N84-12661
SER-A-98 ..... 16 p2504 N84-26069

SER-B-263-MITT-166 ..... 08 p1179 N84-17681 #
SER-B-264-PT-3 ..... 02 p0235 N84-11541
SER-B-265 ..... 10 p1519 N84-19942
SER-B-269 ..... 17 p2727 N84-27355 #

SER-C-274 ..... 03 p0392 N84-12554
SER-C-278-MITT-163 ..... 10 p1526 N84-19998 #
SER-C-282 ..... 16 p2547 N84-26346
SER-C-285 ..... 18 p2866 N84-28199 #
SER-C-286 ..... 16 p2505 N84-26080
SER-C-288 ..... 18 p2952 N84-28711

SER-C283 ..... 16 p2505 N84-26079

SER-246 ..... 06 p0814 N84-15295 #
SER-248 ..... 06 p0877 N84-15707 #
SER-70452 ..... 19 p2968 N84-28806* #

SERI/CP-231-2075 ..... 20 p3235 N84-30536 #
SERI/CP-252-2026 ..... 22 p3619 N84-32929 #
SERI/CP-281-2173 ..... 12 p1844 N84-22022 #

SERI/PR-211-2236 ..... 21 p3434 N84-31789 #
SERI/PR-212-1864 ..... 07 p1083 N84-17043 #
SERI/PR-212-2172 ..... 18 p2942 N84-28656 #
SERI/PR-215-2214 ..... 23 p3798 N84-34084 #
SERI/PR-255-2148 ..... 10 p1530 N84-20022 #
SERI/PR-255-2168 ..... 11 p1675 N84-20929 #

SERI/SP-281-1847 ..... 03 p0405 N84-12650 #
SERI/SP-281-1899 ..... 02 p0302 N84-11983 #
SERI/SP-281-1973 ..... 20 p3315 N84-31057 #
SERI/SP-451-442 ..... 02 p0204 N84-11329 #

SERI/STR-211-2086 ..... 10 p1482 N84-19688 #
SERI/STR-211-2092 ..... 20 p3163 N84-30084 #
SERI/STR-211-2230 ..... 20 p3311 N84-31026 #
SERI/STR-211-2277 ..... 21 p3435 N84-31795 #
SERI/STR-211-2279 ..... 20 p3235 N84-30537 #
SERI/STR-214-1708 ..... 04 p0568 N84-13744 #
SERI/STR-214-1997 ..... 04 p0557 N84-13675 #
SERI/STR-230-2065 ..... 12 p1816 N84-21839 #
SERI/STR-231-1875 ..... 14 p2132 N84-23780 #
SERI/STR-231-1898 ..... 04 p0570 N84-13757 #
SERI/STR-254-1515 ..... 04 p0558 N84-13682 #
SERI/STR-254-1848 ..... 03 p0404 N84-12647 #
SERI/STR-254-2017 ..... 23 p3790 N84-34039 #
SERI/STR-254-2085 ..... 23 p3815 N84-34189 #

SERI/TP-211-1900 ..... 16 p2528 N84-26227 #
SERI/TP-211-1960 ..... 16 p2512 N84-26118 #
SERI/TP-211-1984 ..... 06 p0873 N84-15680 #
SERI/TP-211-1988 ..... 12 p1843 N84-22015 #
SERI/TP-211-2048 ..... 06 p0875 N84-15691 #
SERI/TP-211-2125 ..... 23 p3829 N84-34290 #
SERI/TP-212-2323 ..... 22 p3618 N84-32926 #
SERI/TP-214-1937 ..... 08 p1180 N84-17688 #
SERI/TP-214-1976 ..... 16 p2512 N84-26121 #
SERI/TP-215-1954 ..... 01 p0140 N84-10921 #
SERI/TP-215-2009 ..... 06 p0909 N84-15905 #
SERI/TP-215-2049 ..... 11 p1674 N84-20927 #
SERI/TP-234-1942 ..... 07 p0971 N84-16293 #
SERI/TP-234-2060 ..... 03 p0404 N84-12644 #
SERI/TP-235-1987 ..... 04 p0570 N84-13758 #
SERI/TP-252-1775 ..... 06 p0833 N84-15423
SERI/TP-252-1969 ..... 02 p0218 N84-11431 #
SERI/TP-252-2030 ..... 20 p3235 N84-30534 #
SERI/TP-252-2105 ..... 07 p1003 N84-16505 #
SERI/TP-252-2149 ..... 15 p2374 N84-25244 #
SERI/TP-253-1839 ..... 06 p0872 N84-15676 #
SERI/TP-253-1870 ..... 06 p0872 N84-15678 #
SERI/TP-253-2079 ..... 20 p3236 N84-30543 #
SERI/TP-254-2019 ..... 16 p2512 N84-26119 #
SERI/TP-254-2027 ..... 03 p0475 N84-13128 #
SERI/TP-255-2054 ..... 03 p0404 N84-12641 #
SERI/TP-255-2091 ..... 08 p1138 N84-17402 #

SERI/TR-211-1911 ..... 12 p1843 N84-22018 #
SERI/TR-211-2318 ..... 21 p3435 N84-31796 #
SERI/TR-214-1743 ..... 12 p1918 N84-22494 #
SERI/TR-215-1824 ..... 03 p0401 N84-12622 #
SERI/TR-215-2046 ..... 18 p2883 N84-28293 #
SERI/TR-231-2074 ..... 23 p3715 N84-33548 #
SERI/TR-252-1529 ..... 16 p2512 N84-26123 #
SERI/TR-252-1614 ..... 01 p0082 N84-10533 #
SERI/TR-252-1912 ..... 04 p0537 N84-13530 #
SERI/TR-252-2015 ..... 11 p1675 N84-20928 #
SERI/TR-253-1662 ..... 12 p1843 N84-22016 #
SERI/TR-253-1818 ..... 16 p2513 N84-26124 #
SERI/TR-253-1906 ..... 06 p0874 N84-15689 #
SERI/TR-254-1687 ..... 20 p3247 N84-30605 #
SERI/TR-254-1703 ..... 03 p0475 N84-13127 #
SERI/TR-255-1504 ..... 02 p0242 N84-11585 #
SERI/TR-255-1505 ..... 20 p3235 N84-30535 #
SERI/TR-255-1602 ..... 24 p3917 N84-34798 #
SERI/TR-255-1627 ..... 04 p0558 N84-13676 #
SERI/TR-635-1240 ..... 02 p0242 N84-11584 #
SERI/TR-9318-2-T1 ..... 12 p1843 N84-22014 #

SES/ENG/TN-254/83 ..... 16 p2484 N84-25928 #

SEVILLE-TR-82-06 ..... 10 p1550 N84-20160 #

SGD-462 ..... 01 p0166 N84-11089 #
SGD-463-PT-2 ..... 01 p0166 N84-11090 #
SGD-464-PT-1 ..... 01 p0166 N84-11091 #
SGD-464-PT-2 ..... 02 p0308 N84-12022 #
SGD-465-PT-1 ..... 02 p0305 N84-12005 #
SGD-465-PT-2 ..... 01 p0165 N84-11081 #
SGD-466-PT-1 ..... 07 p1093 N84-17107 #
SGD-466-PT-2 ..... 05 p0765 N84-15018 #
SGD-467-PT-1 ..... 08 p1246 N84-18144 #
SGD-467-PT-2 ..... 08 p1246 N84-18145 #
SGD-468-PT-1 ..... 09 p1417 N84-19270 #
SGD-468-PT-2 ..... 09 p1417 N84-19271 #
SGD-469-PT-1 ..... 09 p1417 N84-19273 #
SGD-469-PT-2 ..... 09 p1417 N84-19274 #
SGD-471-PT-1 ..... 14 p2252 N84-24523 #
SGD-471-PT-2 ..... 14 p2252 N84-24524 #
SGD-473-PT-1 ..... 20 p3320 N84-31073 #
SGD-473-PT-2 ..... 20 p3320 N84-31074 #
SGD-474-PT-1 ..... 20 p3320 N84-31076 #
SGD-474-PT-2 ..... 20 p3320 N84-31077 #
SGD-474-SUPPL ..... 20 p3320 N84-31078 #
SGD-475-PT-1 ..... 22 p3680 N84-33329 #
SGD-475-PT-2 ..... 22 p3680 N84-33330 #

SGI-R-83-096 ..... 14 p2176 N84-24036 #

SIO-REF-83-15 ..... 10 p1528 N84-20010 #
SIO-REF-84-6 ..... 20 p3300 N84-30954 #

SIO-83-5 ..... 01 p0106 N84-10687 #
SIO-83-14 ..... 05 p0702 N84-14610 #

SIPL-83-5 ..... 02 p0280 N84-11833 #

SJ-8230-36063-2 ..... 23 p3731 N84-33649 #

SKF-AT83D001 ..... 11 p1633 N84-20677 #
SKF-AT83D004 ..... 11 p1633 N84-20678 #
SKF-AT83D011 ..... 13 p2006 N84-23013 #
SKF-AT83D043 ..... 11 p1665 N84-20863 #

SM-G2-04285 ..... 02 p0237 N84-11556* #

SM-L1-04209 ..... 10 p1521 N84-19961* #

SM-T3-04447 ..... 13 p2005 N84-23007* #
SM-T3-04448 ..... 13 p2005 N84-23006* #

SM-8 ..... 06 p0858 N84-15589* #
SM-83-8 ..... 07 p1016 N84-16592 #

SME-8401 ..... 16 p2486 N84-25945 #

SMU-WT-7 ..... 01 p0084 N84-10548 #

SMU-2-200-84 ..... 23 p3758 N84-33821 #

SMU/DS/TR-176 ..... 01 p0136 N84-10888 #
SMU/DS/TR-178 ..... 01 p0136 N84-10889 #

SMWP-1/83 ..... 15 p2379 N84-25276

SM83-2A ..... 05 p0744 N84-14885 #
SM045/83 ..... 15 p2391 N84-25345 #

SN-54 ..... 03 p0346 N84-12248* #
SN-1020-A2-F ..... 02 p0189 N84-11229* #
SN-1021-F ..... 02 p0189 N84-11228* #

SNIAS-NT-2-01(0) ..... 12 p1803 N84-21757 #

SNIAS-221-CA/LP ..... 08 p1162 N84-17569 #
SNIAS-831-422-101 ..... 07 p1088 N84-17074 #
SNIAS-832-111-101 ..... 16 p2450 N84-25714 #
SNIAS-832-111-102 ..... 16 p2461 N84-25771 #
SNIAS-832-111-103 ..... 15 p2391 N84-25347 #
SNIAS-832-111-104 ..... 18 p2920 N84-28519 #
SNIAS-832-111-105 ..... 15 p2257 N84-24555 #
SNIAS-832-111-106 ..... 15 p2391 N84-25348 #
SNIAS-832-111-107 ..... 15 p2391 N84-25349 #
SNIAS-832-111-108 ..... 16 p2461 N84-25772 #
SNIAS-832-111-109 ..... 16 p2448 N84-25703 #
SNIAS-832-111-110 ..... 15 p2257 N84-24556 #
SNIAS-832-111-112 ..... 15 p2260 N84-24575 #
SNIAS-832-111-113 ..... 16 p2448 N84-25704 #
SNIAS-832-210-102 ..... 16 p2448 N84-25705 #
SNIAS-832-210-103 ..... 16 p2552 N84-26374 #
SNIAS-832-210-104 ..... 16 p2502 N84-26058 #
SNIAS-832-210-105 ..... 16 p2461 N84-25773 #
SNIAS-832-210-106 ..... 16 p2448 N84-25706 #
SNIAS-832-210-107 ..... 16 p2448 N84-25707 #
SNIAS-832-210-108 ..... 16 p2500 N84-26045 #
SNIAS-832-210-110 ..... 16 p2440 N84-25655 #
SNIAS-832-210-113 ..... 16 p2554 N84-26388 #
SNIAS-832-422-101 ..... 16 p2474 N84-25855 #
SNIAS-832-422-102 ..... 15 p2346 N84-25074 #
SNIAS-832-422-103 ..... 15 p2321 N84-24933 #
SNIAS-832-430-101 ..... 15 p2305 N84-24829
SNIAS-832-430-102 ..... 16 p2458 N84-25759 #
SNIAS-832-440-102 ..... 15 p2397 N84-25381 #
SNIAS-832-501-101 ..... 15 p2416 N84-25504 #
SNIAS-832-502-101 ..... 16 p2475 N84-25865 #
SNIAS-832-551-101 ..... 16 p2465 N84-25797 #
SNIAS-832-551-102 ..... 16 p2471 N84-25833 #
SNIAS-841-210-102 ..... 23 p3687 N84-33367 #
SNIAS-841-422-102 ..... 21 p3519 N84-32297 #
SNIAS-841-422-103 ..... 21 p3388 N84-31501 #
SNIAS-841-422-104 ..... 21 p3388 N84-31502 #
SNIAS-841-422-105 ..... 21 p3388 N84-31503 #
SNIAS-841-422-106 ..... 21 p3388 N84-31504 #
SNIAS-841-422-107 ..... 21 p3388 N84-31505 #
SNIAS-841-422-108 ..... 21 p3388 N84-31506 #
SNIAS-841-422-109 ..... 21 p3388 N84-31507 #
SNIAS-841-422-110 ..... 21 p3389 N84-31508 #
SNIAS-841-422-111 ..... 21 p3355 N84-31282 #
SNIAS-841-422-115 ..... 21 p3363 N84-31332 #
SNIAS-841-551-101 ..... 21 p3372 N84-31399 #
SNIAS-841-551-102 ..... 21 p3358 N84-31298 #
SNIAS-841-551-103 ..... 21 p3328 N84-31118 #
SNIAS-2726-CA/EM/G ..... 19 p2983 N84-28903 #

SOC-SE-02-01 ..... 15 p2279 N84-24692* #
SOC-SE-02-02 ..... 09 p1267 N84-18273* #

SOCIAL-PSYCHOLOGY-BULL-83-2 ..... 10 p1569 N84-20282 #

SOM-TR-2 ..... 10 p1551 N84-20165 #

SOM-WP-57 ..... 10 p1551 N84-20167 #

SONEX-836151 ..... 06 p0853 N84-15559 #

SORI-EAS-81-232 ..... 04 p0560 N84-13695 #
SORI-EAS-82-434-VOL-1 ..... 22 p3549 N84-32469 #

SPE-PAPER-12813 ..... 15 p2359 N84-25157 #

SPER-8390 ..... 18 p2794 N84-27730 #

SPO-13649-01-00 ..... 09 p1249 N84-18155 #

SP84-MSFC-2726 ..... 15 p2428 N84-25584* #

SR-K3-04424 ..... 01 p0099 N84-10643* #
SR-K3-04438 ..... 04 p0552 N84-13635* #

SR-M2-04342 ..... 12 p1829 N84-21927* #

SR-P3-04399 ..... 12 p1829 N84-21925* #

SR-1 ..... 01 p0078 N84-10509 #
SR-1 ..... 03 p0377 N84-12453 #
SR-1 ..... 03 p0408 N84-12670 #
SR-1 ..... 03 p0425 N84-12785 #
SR-1 ..... 04 p0567 N84-13740 #
SR-1 ..... 05 p0703 N84-14615 #
SR-1 ..... 08 p1144 N84-17442 #
SR-1 ..... 08 p1186 N84-17731 #
SR-1 ..... 11 p1622 N84-20620 #
SR-1 ..... 22 p3541 N84-32419 #
SR-1 ..... 24 p3919 N84-34810 #
SR-2 ..... 01 p0070 N84-10459 #
SR-2 ..... 03 p0340 N84-12210 #
SR-2 ..... 16 p2499 N84-26032 #
SR-2 ..... 18 p2890 N84-28344 #
SR-2 ..... 19 p3054 N84-29381 #
SR-2 ..... 19 p3094 N84-29647 #
SR-2 ..... 20 p3178 N84-30186 #
SR-2 ..... 22 p3577 N84-32653 #
SR-2 ..... 24 p3963 N84-35097 #
SR-3 ..... 03 p0408 N84-12689 #
SR-3 ..... 04 p0526 N84-13460 #
SR-3 ..... 05 p0741 N84-14867 #
SR-3 ..... 19 p3089 N84-29611 #
SR-3 ..... 20 p3245 N84-30599 #
SR-3 ..... 20 p3300 N84-30954 #
SR-3 ..... 24 p3860 N84-34463 #
SR-4 ..... 11 p1682 N84-20978 #
SR-4 ..... 13 p2036 N84-23206 #
SR-4 ..... 19 p3054 N84-29382 #
SR-4 ..... 24 p3861 N84-34466 #
SR-5 ..... 13 p2036 N84-23208 #
SR-6 ..... 16 p2526 N84-26219 #
SR-7 ..... 08 p1187 N84-17732 #
SR-10 ..... 21 p3401 N84-31572 #
SR-14 ..... 15 p2265 N84-24600* #
SR-18-VOL-1 ..... 06 p0885 N84-15756 #
SR-19 ..... 09 p1361 N84-18891 #
SR-63-04444 ..... 10 p1520 N84-19953* #
SR-74/75(1983) ..... 09 p1298 N84-18488 #
SR-83-18 ..... 17 p2735 N84-27383 #

SRA-R83-930006-F ..... 19 p2959 N84-28752 #

SRA-910006F ..... 24 p3901 N84-34703 #

SRC-CR-83-33 ..... 08 p1235 N84-18074 #
SRC-CR-83-37 ..... 09 p1395 N84-19110 #
SRC-CR-83-39 ..... 09 p1309 N84-18561 #
SRC-CR-83-40-VOL-3 ..... 18 p2876 N84-28260 #
SRC-CR-83-43-VOL-6 ..... 15 p2363 N84-25181 #

SRD-84-012 ..... 12 p1792 N84-21685 #

SRDE-7100 ..... 15 p2389 N84-25333

SRI-MP-83-196 ..... 10 p1454 N84-19496 #
SRI-MP-84-053 ..... 17 p2628 N84-26814 #
SRI-MP-84-057 ..... 18 p2811 N84-27846 #

SRI-4905 ..... 22 p3529 N84-32345 #

SRL-83-12 ..... 03 p0465 N84-13064* #

SRS/SE-TR84-022-VOL-1 ..... 15 p2340 N84-25046* #

SR83-R-4663-30 ..... 05 p0630 N84-14143* #
SR83-R-4861-45 ..... 22 p3564 N84-32575 #
SR84-R-4526-03 ..... 24 p3884 N84-34605 #

SSA-2054 ..... 07 p1051 N84-16809 #

SSA/STECS/PROD-83/1 ..... 01 p0160 N84-11054 #

SSC-315 ..... 17 p2679 N84-27067 #

SSD-T-8234-005-82 ..... 06 p0935 N84-16074* #
SSD-T-8234-006-82 ..... 06 p0934 N84-16071* #
SSD-T-8237-002-82 ..... 06 p0934 N84-16072* #
SSD-T-8237-002-82 ..... 06 p0934 N84-16073* #

SSD-83-0037 ..... 09 p1267 N84-18274* #
SSD-83-0045 ..... 18 p2806 N84-27815* #
SSD-83-0094-1-VOL-1 ..... 01 p0028 N84-10175* #
SSD-83-0094-2-VOL-2 ..... 01 p0028 N84-10176* #

SSI-TR-42 ..... 24 p3860 N84-34463 #
SSI-TR-45 ..... 19 p3094 N84-29647 #

SSL-30-83 ..... 01 p0089 N84-10583* #
SSL-31-83 ..... 01 p0090 N84-10584* #
SSL-32-83-VOL-3-PHASE-2 ..... 01 p0089 N84-10582* #

SSRI-RR-80-2 ..... 12 p1895 N84-22342 #

SSRL-84/04 ..... 22 p3665 N84-33234 #

SSS-IR-83-6141 ..... 11 p1660 N84-20627 #

SSS-R-82-5580 ..... 01 p0096 N84-10627 #
SSS-R-83-5776 ..... 06 p0878 N84-15714 #
SSS-R-84-6386 ..... 10 p1494 N84-19772 #

ST-112/84 ..... 18 p2900 N84-28400 #
ST-113/84 ..... 18 p2900 N84-28401 #

STI-TR-1151-3 ..... 11 p1614 N84-20564* #
STI-TR-1163-3 ..... 05 p0629 N84-14138 #

STI/E-TR-9109 ..... 10 p1433 N84-19368* #
STI/E-TR-25066-VOL-1 ..... 10 p1433 N84-19369* #
STI/E-TR-25066-VOL-2 ..... 10 p1433 N84-19370* #
STI/E-TR-25066-VOL-3 ..... 10 p1434 N84-19371* #
STI/E-TR-25066-VOL-4 ..... 10 p1434 N84-19372* #
STI/E-TR-25066-VOL-5 ..... 10 p1434 N84-19373* #
STI/E-TR-25066-VOL-6 ..... 10 p1434 N84-19374* #
STI/E-TR-25066-VOL-7 ..... 10 p1434 N84-19375* #
STI/E-TR-25066-VOL-8 ..... 10 p1434 N84-19376* #

STPA/CIN-6 ..... 18 p2790 N84-27705 #

STS-81-0352-12 ..... 17 p2617 N84-26752* #

SU-CMR-83-9 ..... 04 p0604 N84-13988 #
SU-CMR-84-4 ..... 24 p3967 N84-35119 #

SU-CRC-TR-83-12 ..... 09 p1368 N84-18931 #

SU-CSSA-ASTRO-84-03 ..... 17 p2781 N84-27655* #
SU-CSSA-ASTRO-84-08 ..... 16 p2582 N84-26559* #

SU-DMS-78-P-21 ..... 11 p1627 N84-20651 #
SU-DMS-83-R-2 ..... 12 p1798 N84-21731 #
SU-DMS-83-R-4 ..... 03 p0451 N84-12969 #
SU-DMS-83-R-5 ..... 06 p0922 N84-15997* #
SU-DMS-84-R-2 ..... 21 p3419 N84-31682* #

SU-FTR-84-0057-1 ..... 24 p3898 N84-34684 #

SU-GL-3566 ..... 08 p1234 N84-18068 #
SU-GL-3568 ..... 07 p0998 N84-16469 #
SU-GL-3582 ..... 12 p1820 N84-21866 #
SU-GL-3598 ..... 03 p0379 N84-12470 #
SU-GL-3622 ..... 09 p1254 N84-18186 #
SU-GL-3672 ..... 14 p2224 N84-24350 #
SU-GL-3715 ..... 18 p2845 N84-28068 #
SU-GL-3716 ..... 20 p3308 N84-31011 #

SU-HEPL-923 ..... 13 p1995 N84-22946 #

SU-IPR-955 ..... 01 p0104 N84-10677 #
SU-IPR-957 ..... 01 p0165 N84-11086* #

SU-ISL-L722-9 ..... 23 p3825 N84-34258 #

SU-PRI-TR-37 ..... 20 p3186 N84-30246 #

SU-SLAC-CN-233 ..... 20 p3177 N84-30176 #
SU-SLAC-CN-235 ..... 20 p3295 N84-30924 #
SU-SLAC-CN-236 ..... 20 p3181 N84-30207 #
SU-SLAC-CN-243 ..... 21 s3495 N84-32149 #
SU-SLAC-CN-249 ..... 21 p3496 N84-32156 #
SU-SLAC-CN-250 ..... 21 p3494 N84-32143 #
SU-SLAC-CN-264 ..... 14 p2225 N84-24355 #

SU-SLAC-PUB-3010 ..... 01 p0119 N84-10773 #
SU-SLAC-PUB-3033 ..... 01 p0143 N84-10942 #
SU-SLAC-PUB-3058 ..... 03 p0433 N84-12840 #
SU-SLAC-PUB-3060 ..... 01 p0143 N84-10943 #
SU-SLAC-PUB-3062 ..... 03 p0434 N84-12842 #
SU-SLAC-PUB-3068 ..... 02 p0290 N84-11903 #
SU-SLAC-PUB-3074 ..... 01 p0068 N84-10443 #
SU-SLAC-PUB-3076 ..... 02 p0210 N84-11373 #
SU-SLAC-PUB-3077 ..... 01 p0073 N84-10480 #
SU-SLAC-PUB-3080 ..... 02 p0290 N84-11904 #
SU-SLAC-PUB-3081 ..... 02 p0290 N84-11902 #
SU-SLAC-PUB-3084 ..... 01 p0143 N84-10938 #
SU-SLAC-PUB-3102 ..... 04 p0601 N84-13965 #
SU-SLAC-PUB-3113 ..... 04 p0609 N84-14016 #
SU-SLAC-PUB-3116 ..... 04 p0594 N84-13919 #
SU-SLAC-PUB-3120 ..... 04 p0602 N84-13976 #
SU-SLAC-PUB-3121 ..... 03 p0437 N84-12888 #
SU-SLAC-PUB-3127 ..... 04 p0601 N84-13968 #
SU-SLAC-PUB-3136 ..... 06 p0926 N84-16018 #
SU-SLAC-PUB-3146 ..... 03 p0435 N84-12850 #
SU-SLAC-PUB-3147 ..... 03 p0435 N84-12849 #
SU-SLAC-PUB-3149 ..... 05 p0750 N84-14925 #
SU-SLAC-PUB-3161 ..... 02 p0291 N84-11908 #
SU-SLAC-PUB-3163 ..... 03 p0435 N84-12854 #
SU-SLAC-PUB-3168 ..... 05 p0745 N84-14894 #
SU-SLAC-PUB-3169 ..... 06 p0916 N84-15955 #
SU-SLAC-PUB-3169-REV ..... 12 p1902 N84-22389 #
SU-SLAC-PUB-3176 ..... 03 p0382 N84-12489 #
SU-SLAC-PUB-3187 ..... 03 p0439 N84-12879 #
SU-SLAC-PUB-3213 ..... 04 p0614 N84-14055 #
SU-SLAC-PUB-3221 ..... 20 p3294 N84-30913 #
SU-SLAC-PUB-3227 ..... 07 p0999 N84-16477 #
SU-SLAC-PUB-3237 ..... 07 p0998 N84-16470 #
SU-SLAC-PUB-3259 ..... 12 p1916 N84-22486 #
SU-SLAC-PUB-3263 ..... 21 p3495 N84-32152 #
SU-SLAC-PUB-3281 ..... 12 p1903 N84-22393 #
SU-SLAC-PUB-3284 ..... 21 p3497 N84-32161 #
SU-SLAC-PUB-3285 ..... 20 p3293 N84-30907 #
SU-SLAC-PUB-3288 ..... 19 p3113 N84-29782 #
SU-SLAC-PUB-3298 ..... 15 p2337 N84-25031 #
SU-SLAC-PUB-3299 ..... 19 p3028 N84-29202 #
SU-SLAC-PUB-3324 ..... 21 p3392 N84-31527 #
SU-SLAC-PUB-3357 ..... 22 p3654 N84-33165 #

SU-SLAC-TN-83-12 ..... 07 p1008 N84-16537 #
SU-SLAC-TN-84-5 ..... 22 p3588 N84-32727 #

SU-SLAC-259 ..... 03 p0438 N84-12878 #
SU-SLAC-261 ..... 05 p0741 N84-14866 #

SU-SLAC/AP-3 ..... 04 p0529 N84-13482 #
SU-SLAC/AP-6 ..... 04 p0599 N84-13955 #
SU-SLAC/AP-11 ..... 12 p1903 N84-22391 #
SU-SLAC/AP-13 ..... 20 p3181 N84-30209 #
SU-SLAC/AP-16 ..... 20 p3311 N84-31030 #
SU-SLAC/AP-21 ..... 20 p3194 N84-30287 #
SU-SLAC/AP-22 ..... 22 p3650 N84-33140 #
SU-SLAC/AP-24 ..... 21 p3494 N84-32141 #

SU-SOL-83-4 ..... 02 p0274 N84-11792 #
SU-SOL-83-6 ..... 01 p0124 N84-10808 #
SU-SOL-83-7 ..... 03 p0421 N84-12752 #
SU-SOL-83-8 ..... 02 p0283 N84-11854 #
SU-SOL-83-12 ..... 03 p0421 N84-12751 #
SU-SOL-83-17 ..... 07 p1064 N84-16902 #
SU-SOL-83-18 ..... 05 p0717 N84-14694 #
SU-SOL-83-19 ..... 09 p1375 N84-18979 #
SU-SOL-83-20 ..... 11 p1709 N84-21140 #
SU-SOL-83-21 ..... 11 p1719 N84-21211 #
SU-SOL-83-23 ..... 12 p1897 N84-22355 #
SU-SOL-84-3 ..... 22 p3642 N84-33092 #

SU-SPO-13389-01-00 ..... 24 p3910 N84-34766 #

SU-SSEL-11-79 ..... 05 p0754 N84-14943 #

SU-STAN-CS-82-956 ..... 03 p0423 N84-12770 #
SU-STAN-CS-83-961 ..... 01 p0122 N84-10792 #
SU-STAN-CS-83-967 ..... 01 p0123 N84-10801 #
SU-STAN-CS-83-970 ..... 09 p1365 N84-18914 #
SU-STAN-CS-83-972 ..... 08 p1209 N84-17888 #
SU-STAN-CS-83-975 ..... 09 p1404 N84-19172 #
SU-STAN-CS-83-976 ..... 08 p1209 N84-17887 #
SU-STAN-CS-83-979 ..... 08 p1211 N84-17902 #
SU-STAN-CS-83-994 ..... 19 p3077 N84-29524 #
SU-STAN-CS-83-995 ..... 15 p2396 N84-25370 #
SU-STAN-CS-83-996 ..... 15 p2396 N84-25371 #
SU-STAN-CS-83-997 ..... 15 p2383 N84-25293 #
SU-STAN-CS-84-1000 ..... 24 p3947 N84-34992 #

SU-STAN-HPP-82-20 ..... 03 p0423 N84-12770 #

SU-SUIPR-954 ..... 17 p2781 N84-27656* #
SU-SUIPR-961 ..... 04 p0621 N84-14098* #

SU-TF-19 ..... 08 p1156 N84-17528* #

SU-TR-7 ..... 15 p2396 N84-25370 #
SU-TR-9 ..... 15 p2383 N84-25293 #
SU-TR-22 ..... 09 p1381 N84-19019 #
SU-TR-25 ..... 18 p2925 N84-28548 #
SU-TR-26 ..... 17 p2759 N84-27519 #
SU-TR-27 ..... 17 p2759 N84-27518 #
SU-TR-28 ..... 19 p3093 N84-29643 #
SU-TR-73 ..... 09 p1379 N84-19013 #
SU-TR-83-241 ..... 09 p1365 N84-18912 #
SU-TR-211 ..... 10 p1573 N84-20310 #
SU-TR-324 ..... 03 p0427 N84-12801 #
SU-TR-334 ..... 01 p0136 N84-10993 #
SU-TR-337 ..... 04 p0592 N84-13906 #
SU-TR-338 ..... 09 p1372 N84-18956 #
SU-TR-339 ..... 09 p1383 N84-19033 #
SU-TR-341 ..... 11 p1717 N84-21201 #
SU-TR-342 ..... 15 p2400 N84-25401 #
SU-TR-344 ..... 20 p3283 N84-30648 #
SU-TR-406 ..... 03 p0424 N84-12773 #

SUDAA-AA-CFD-84-1 ..... 16 p2493 N84-25994 #

SUDAA-CFD-83-2 ..... 11 p1653 N84-20790 #

SUNYBUF/DC/TR-14 ..... 06 p0801 N84-15220 #
SUNYBUF/DC/TR-15 ..... 14 p2122 N84-23717 #
SUNYBUF/DC/TR-16 ..... 14 p2122 N84-23716 #

SUNYBUF/DC/TR-17 ..... 14 p2122 N84-23718 #
SUNYBUF/DC/TR-18 ..... 14 p2122 N84-23715 #

SUSB-84-1 ..... 17 p2624 N84-26795 #

SVHSER-8921 ..... 10 p1553 N84-20177* #

SVIC-BULL-53-PT-1 ..... 10 p1507 N84-19866 #
SVIC-BULL-53-PT-2 ..... 10 p1510 N84-19881 #
SVIC-BULL-53-PT-3 ..... 10 p1511 N84-19893 #
SVIC-BULL-53-PT-4 ..... 10 p1514 N84-19908 #

SWRI-01-6745 ..... 22 p3533 N84-32366 #
SWRI-06-4231 ..... 10 p1459 N84-19529 #
SWRI-06-4231 ..... 11 p1669 N84-20888 #
SWRI-06-7436 ..... 17 p2623 N84-26789 #
SWRI-15-5607-814 ..... 09 p1325 N84-18655 #
SWRI-5361-003 ..... 04 p0510 N84-13340 #
SWRI-6077/1 ..... 10 p1467 N84-19584 #
SWRI-6191 ..... 19 p2999 N84-29007 #
SWRI-6648/1 ..... 04 p0491 N84-13225 #
SWRI-6682/2 ..... 04 p0508 N84-13332* #
SWRI-6721 ..... 19 p2999 N84-29008 #
SWRI-6797/4 ..... 23 p3693 N84-33406 #
SWRI-6800-111 ..... 01 p0052 N84-10337 #
SWRI-6800-148/2 ..... 04 p0509 N84-13337 #
SWRI-6800-210/1 ..... 10 p1502 N84-19817 #
SWRI-6948 ..... 19 p2992 N84-28960* #
SWRI-7054 ..... 07 p0979 N84-16345 #

SWS-CR-328 ..... 07 p1039 N84-16741 #

SYRU/DECE/TR-83-3 ..... 01 p0062 N84-10407 #
SYRU/DECE/TR-83-7 ..... 01 p0138 N84-10907 #
SYRU/DECE/TR-83/14 ..... 08 p1226 N84-18007 #
SYRU/DECE/TR-83/19 ..... 12 p1898 N84-22361 #
SYRU/DECE/TR-84/3 ..... 21 p3387 N84-31493 #
SYRU/DECE/TR-84/4 ..... 21 p3386 N84-31491 #
SYRU/DECE/TR-84/5 ..... 23 p3742 N84-33718 #

S82-03-APP-A-E ..... 17 p2611 N84-26711 #
S82-03-APP-A-E ..... 17 p2611 N84-26712 #
S83-03911 ..... 05 p0701 N84-14603 #

T-129 ..... 08 p1104 N84-17179 #
T-135 ..... 07 p1050 N84-16804* #
T-136 ..... 15 p2384 N84-25300 #
T-551.583.13(480) ..... 18 p2883 N84-28294 #

TACOM-TR-12686 ..... 06 p0897 N84-15826 #
TACOM-TR-12726 ..... 04 p0544 N84-13582 #
TACOM-TR-12728 ..... 05 p0690 N84-14531 #
TACOM-TR-12758 ..... 04 p0544 N84-13581 #
TACOM-TR-12763 ..... 09 p1263 N84-18377 #
TACOM-TR-12772 ..... 01 p0043 N84-10277 #
TACOM-TR-12852 ..... 05 p0688 N84-14520 #
TACOM-TR-12896 ..... 19 p2993 N84-28969 #
TACOM-TR-12907 ..... 13 p2028 N84-23153 #
TACOM-TR-12912 ..... 18 p2921 N84-28522 #
TACOM-TR-12942 ..... 18 p2849 N84-28090 #

TAE-483 ..... 06 p0905 N84-15876 #
TAE-493 ..... 16 p2438 N84-25640 #
TAE-497 ..... 06 p0857 N84-15585 #
TAE-503 ..... 01 p0037 N84-10232 #

TAEG-TN-11-83 ..... 14 p2205 N84-24236 #
TAEG-TN-12-83 ..... 15 p2383 N84-25292 #

TAMRF-3224-84-01 ..... 12 p1765 N84-21514* #

TAO-34013 ..... 18 p2917 N84-28494* #

TASC-TR-4051-1 ..... 01 p0100 N84-10651 #
TASC-TR-8203-1 ..... 09 p1249 N84-18158 #

TB-TS-11-01/82-A ..... 09 p1289 N84-18416 #

TB-83-7 ..... 19 p3100 N84-29694 #
TB-83-8 ..... 19 p3114 N84-29784 #

TBA-7467-927063 ..... 18 p2821 N84-27914 #

TCRL-23 ..... 01 p0012 N84-10073 #
TCRL-24 ..... 19 p2966 N84-28798 #
TCRL-25 ..... 19 p2966 N84-28797 #

TCU/DC/TR-83-04 ..... 08 p1137 N84-17392 #
TCU/DC/TR-84-03 ..... 19 p2984 N84-28909 #
TCU/DC/TR-84-04 ..... 19 p2984 N84-28908 #
TCU/DC/TR-84-05 ..... 19 p2984 N84-28907 #

TD-RP-AI-004 ..... 23 p3701 N84-33459 #

TDA-PR-42-77 ..... 16 p2478 N84-25889* #

TDCK-77629 ..... 02 p0228 N84-11495 #
TDCK-77630 ..... 02 p0269 N84-11765 #
TDCK-77632 ..... 02 p0263 N84-11856 #
TDCK-77636 ..... 02 p0269 N84-11759
TDCK-77770 ..... 12 p1899 N84-22370 #
TDCK-77771 ..... 12 p1866 N84-22159 #
TDCK-77816 ..... 12 p1866 N84-22160 #
TDCK-77818 ..... 12 p1827 N84-21911 #
TDCK-77819 ..... 12 p1827 N84-21912 #
TDCK-77820 ..... 12 p1814 N84-21825
TDCK-77822 ..... 12 p1804 N84-21759
TDCK-77823 ..... 12 p1904 N84-22401
TDCK-77849 ..... 12 p1900 N84-22377 #
TDCK-77951 ..... 12 p1900 N84-22371 #
TDCK-77992 ..... 12 p1884 N84-22285 #
TDCK-78124 ..... 12 p1900 N84-22374 #
TDCK-78125 ..... 12 p1900 N84-22375 #
TDCK-78126 ..... 12 p1900 N84-22376 #
TDCK-78189 ..... 12 p1869 N84-22177 #
TDCK-78190 ..... 12 p1867 N84-22165 #
TDCK-78192 ..... 12 p1821 N84-21873
TDCK-78299 ..... 12 p1821 N84-21871 #
TDCK-78389 ..... 12 p1803 N84-21752
TDCK-78515 ..... 12 p1804 N84-21761 #
TDCK-78612 ..... 12 p1790 N84-21676
TDCK-78613 ..... 12 p1900 N84-22372 #
TDCK-78614 ..... 13 p2040 N84-23238 #
TDCK-78631 ..... 12 p1892 N84-22324 #
TDCK-78678 ..... 12 p1867 N84-22166 #
TDCK-78679 ..... 12 p1866 N84-22158 #
TDCK-78680 ..... 12 p1867 N84-22167 #
TDCK-78681 ..... 12 p1900 N84-22373 #
TDCK-78686 ..... 12 p1808 N84-21790 #
TDCK-78739 ..... 18 p2854 N84-28120 #
TDCK-78755 ..... 18 p2790 N84-27704 #
TDCK-78756 ..... 18 p2915 N84-28487 #
TDCK-78759 ..... 17 p2725 N84-27344 #
TDCK-78819 ..... 17 p2725 N84-27345 #
TDCK-78820 ..... 17 p2614 N84-26731
TDCK-78821 ..... 18 p2854 N84-28121 #
TDCK-78870 ..... 18 p2922 N84-28532 #
TDCK-78872 ..... 18 p2830 N84-27970 #
TDCK-78936 ..... 21 p3458 N84-31940 #
TDCK-78938 ..... 17 p2763 N84-27552 #
TDCK-78940 ..... 18 p2914 N84-28483 #
TDCK-78986 ..... 20 p3182 N84-30214 #
TDCK-79062 ..... 20 p3176 N84-30168 #
TDCK-79065 ..... 20 p3199 N84-30315 #
TDCK-79067 ..... 20 p3182 N84-30213 #
TDCK-79068 ..... 20 p3313 N84-31043 #
TDCK-79148 ..... 19 p3067 N84-29455 #
TDCK-79150 ..... 19 p3105 N84-29730 #
TDCK-79153 ..... 20 p3199 N84-30316 #
TDCK-79156 ..... 19 p3010 N84-29082 #
TDCK-79159 ..... 20 p3175 N84-30167 #

TDI-TR-83-4 ..... 06 p0892 N84-15796 #

TDWR/LP-192 ..... 14 p2182 N84-24074 #

TEES-TR-4587-82-01 ..... 08 p1114 N84-17244* #
TEES-TR-4587-82-01-VOL-2 ..... 08 p1114 N84-17245* #
TEES-TR-4587-82-01-VOL-3 ..... 08 p1114 N84-17246* #

TEI-A009-10 ..... 01 p0072 N84-10468 #
TEI-A009-11 ..... 05 p0675 N84-14439 #

TELAC-83-11 ..... 10 p1452 N84-19486 #

TELEDYNE-CAE-1901 ..... 01 p0053 N84-10342 #
TELEDYNE-CAE-1987 ..... 13 p1932 N84-22568* #

TENRAC/EDF-100-VOL-1 ..... 07 p1027 N84-16659 #
TENRAC/EDF-117 ..... 08 p1181 N84-17691 #

TEPIAC/CINDAS-74 ..... 05 p0655 N84-14306 #

TE4224-71-83 ..... 01 p0059 N84-10384 #
TE4322-251-83 ..... 21 p3521 N84-32306* #

TF211/152-08-83 ..... 19 p2955 N84-28731 #

TH.3774-CERN ..... 23 p3819 N84-34219 #
TH.3779-CERN ..... 23 p3823 N84-34246 #

TH-CSF-DASM-83/001/106 ..... 07 p0999 N84-16482 #

TI-CRL-08-83-40 ..... 08 p1150 N84-17483 #

TI-08-83-42 ..... 07 p0997 N84-16463* #
TI-08-84-08 ..... 12 p1913 N84-22466 #

TIC-4500 ..... 16 p2566 N84-26465 #

TIP-3 ..... 14 p2180 N84-24059 #

TIR-2114-MED-2005 ..... 08 p1200 N84-17821* #
TIR-2114-MED-2012 ..... 08 p1199 N84-17820* #

TM-EKR3 ..... 08 p1120 N84-17284 #

TM-4 ..... 10 p1455 N84-19502 #
TM-26 ..... 23 p3818 N84-34207 #
TM-44-83-05 ..... 01 p0060 N84-10396 #
TM-46 ..... 23 p3815 N84-34190 #
TM-84-A-6 ..... 24 p3856 N84-34445* #
TM-89 ..... 08 p1102 N84-17168* #
TM-90 ..... 11 p1604 N84-20504* #

TN-SM-83-12 ..... 01 p0029 N84-10181* #
TN-SM-83-13 ..... 16 p2457 N84-25752* #
TN-SM-84-14 ..... 15 p2281 N84-24699* #

TN-1 ..... 17 p2755 N84-27492 #
TN-53/10 ..... 17 p2684 N84-26994 #
TN-106-010 ..... 12 p1778 N84-21601 #
TN-361 ..... 10 p1527 N84-20005 #

TOP-1-1-003 ..... 08 p1201 N84-17829 #
TOP-1-1-004 ..... 15 p2336 N84-25024 #
TOP-1-2-610 ..... 16 p2539 N84-26302 #
TOP-1-2-610-PT-1 ..... 16 p2539 N84-26302 #
TOP-1-2-610-PT-2 ..... 16 p2540 N84-26303 #
TOP-1-2-611 ..... 16 p2539 N84-26302 #
TOP-2-2-613 ..... 05 p0666 N84-14361 #
TOP-2-2-812 ..... 18 p2932 N84-28592 #
TOP-3-2-607 ..... 15 p2270 N84-24629 #
TOP-3-2-806 ..... 09 p1327 N84-18666 #
TOP-4-1-003 ..... 19 p3001 N84-29022 #
TOP-6-2-013 ..... 03 p0332 N84-12165 #
TOP-6-2-050 ..... 08 p1144 N84-17446 #
TOP-6-2-065 ..... 08 p1145 N84-17449 #
TOP-6-2-185 ..... 19 p3058 N84-29405 #
TOP-7-3-507 ..... 04 p0478 N84-13146 #
TOP-8-2-064 ..... 07 p1008 N84-16535 #
TOP-8-2-172 ..... 15 p2337 N84-25029 #
TOP-02-2-803 ..... 16 p2539 N84-26302 #
TOP-02-3-516 ..... 16 p2539 N84-26302 #
TOP-03-3-3-521 ..... 16 p2539 N84-26302 #
TOP-04-3-515 ..... 16 p2539 N84-26302 #
TOP-05-2-545 ..... 16 p2539 N84-26302 #
TOP-05-3 507 ..... 16 p2539 N84-26302 #
TOP-06-2-502 ..... 16 p2539 N84-26302 #
TOP-06-3-525 ..... 16 p2539 N84-26302 #
TOP-07-3-510 ..... 16 p2539 N84-26302 #

TOXICOLOGY-SER-42 ..... 06 p0886 N84-15758 #

TP-160 ..... 01 p0066 N84-10434 #
TP-8877 ..... 01 p0029 N84-10182* #

TPD-208.730/1 ..... 12 p1900 N84-22374 #
TPD-308.780/1-VOL-1 ..... 12 p1900 N84-22375 #
TPD-308.780/2-VOL-2 ..... 12 p1900 N84-22376 #
TPD-308.785/1 ..... 12 p1900 N84-22377 #
TPD-408.870/1 ..... 17 p2763 N84-27552 #
TPD-1982-0-1 ..... 02 p0222 N84-11453

TPR-4 ..... 08 p1188 N84-17740 #

TPRL-314A ..... 07 p0966 N84-16260 #
TPRL-317 ..... 01 p0156 N84-11027 #

TR-A-23 ..... 04 p0590 N84-13900 #
TR-A-24 ..... 05 p0729 N84-14786 #
TR-A-25 ..... 04 p0581 N84-13831 #
TR-A-26 ..... 05 p0740 N84-14861 #

TR-AP83-044 ..... 10 p1597 N84-20465* #

TR-D-66-ARO ..... 22 p3650 N84-33139 #

TR-DG-08-ONR ..... 22 p3674 N84-33293 #

TR-EE-83-22 ..... 05 p0737 N84-14843 #
TR-EE-83-26 ..... 07 p1061 N84-16881 #
TR-EE-83-34 ..... 14 p2211 N84-24279 #
TR-EE-83-35 ..... 09 p1346 N84-18793 #

TR-E723-1 ..... 02 p0223 N84-11462 #

TR-J8301 ..... 08 p1232 N84-18052 #
TR-J8401 ..... 24 p3952 N84-35023 #

TR-ONR-DG-06 ..... 14 p2247 N84-24493 #

TR-ONR-6 ..... 19 p3068 N84-29461 #
TR-ONR-7 ..... 10 p1554 N84-20186 #
TR-ONR-9 ..... 09 p1363 N84-18902* #
TR-ONR-10 ..... 10 p1569 N84-20282 #
TR-ONR-10 ..... 19 p3067 N84-29457* #
TR-ONR-13 ..... 08 p1203 N84-17846 #
TR-ONR-33 ..... 08 p1217 N84-17944 #

TR-R-4-83 ..... 02 p0296 N84-11938 #

TR-SOL-83-1 ..... 01 p0124 N84-10811 #
TR-SOL-83-10 ..... 01 p0135 N84-10883 #

TR-1 ..... 01 p0083 N84-10542 #
TR-1 ..... 01 p0086 N84-10563 #
TR-1 ..... 03 p0346 N84-12250 #
TR-1 ..... 03 p0356 N84-12315 #
TR-1 ..... 05 p0650 N84-14274 #
TR-1 ..... 09 p1279 N84-18350 #
TR-1 ..... 10 p1588 N84-20406 #
TR-1 ..... 12 p1793 N84-21690 #
TR-1 ..... 14 p2123 N84-23721 #
TR-1 ..... 14 p2214 N84-24297 #
TR-1 ..... 19 p2989 N84-28940 #
TR-1 ..... 19 p3080 N84-29547 #
TR-1 ..... 21 p3370 N84-31382 #
TR-1 ..... 22 p3547 N84-32452 #
TR-1 ..... 22 p3559 N84-32539 #
TR-1-84 ..... 21 p3498 N84-32170 #
TR-2 ..... 02 p0213 N84-11398 #
TR-2 ..... 04 p0507 N84-13321 #
TR-2 ..... 06 p0801 N84-15224 #
TR-2 ..... 07 p0974 N84-16314 #
TR-2 ..... 08 p1152 N84-17497 #
TR-2 ..... 12 p1793 N84-21691 #
TR-2 ..... 12 p1801 N84-21742 #
TR-2 ..... 14 p2218 N84-24310 #
TR-2 ..... 18 p2927 N84-28562 #
TR-2 ..... 18 p2932 N84-28596 #
TR-2 ..... 19 p2989 N84-28943 #
TR-2 ..... 21 p3409 N84-31621 #
TR-2 ..... 22 p3559 N84-32539 #
TR-2 ..... 23 p3724 N84-33600 #
TR-2-ONR ..... 10 p1554 N84-20185 #
TR-3 ..... 05 p0674 N84-14427 #
TR-3 ..... 05 p0684 N84-14496 #
TR-3 ..... 05 p0747 N84-14904 #
TR-3 ..... 06 p0810 N84-15277 #
TR-3 ..... 09 p1377 N84-18996 #
TR-3 ..... 09 p1394 N84-19105 #
TR-3 ..... 11 p1652 N84-20788 #
TR-3 ..... 12 p1793 N84-21692 #
TR-3 ..... 12 p1793 N84-21694 #
TR-3 ..... 12 p1797 N84-21723 #
TR-3 ..... 12 p1798 N84-21727 #
TR-3 ..... 13 p1963 N84-22754 #
TR-3 ..... 17 p2626 N84-26806 #
TR-3 ..... 18 p2927 N84-28563 #
TR-3 ..... 19 p2989 N84-28942 #
TR-3 ..... 19 p2998 N84-28999 #
TR-3 ..... 22 p3559 N84-32539 #
TR-3 ..... 22 p3663 N84-33224 #
TR-4 ..... 04 p0508 N84-13315 #
TR-4 ..... 05 p0659 N84-14329 #
TR-4 ..... 05 p0686 N84-14510 #
TR-4 ..... 06 p0829 N84-15397 #
TR-4 ..... 09 p1279 N84-18352 #
TR-4 ..... 09 p1321 N84-18628 #
TR-4 ..... 10 p1465 N84-19571 #
TR-4 ..... 11 p1653 N84-20789 #
TR-4 ..... 12 p1793 N84-21693 #
TR-4 ..... 17 p2620 N84-26764 #
TR-4 ..... 17 p2620 N84-26765 #
TR-4 ..... 17 p2768 N84-27575 #
TR-4 ..... 18 p2834 N84-27990 #
TR-4 ..... 19 p3101 N84-29701 #
TR-4 ..... 22 p3559 N84-32539 #
TR-4 ..... 23 p3624 N84-34254 #
TR-5 ..... 07 p0969 N84-16281 #
TR-5 ..... 09 p1279 N84-18353 #
TR-5 ..... 09 p1321 N84-18629 #
TR-5 ..... 09 p1396 N84-19116 #
TR-5 ..... 10 p1468 N84-19589 #
TR-5 ..... 11 p1645 N84-20756 #
TR-5 ..... 12 p1793 N84-21695 #
TR-5 ..... 16 p2471 N84-25839 #
TR-5 ..... 17 p2619 N84-26763 #
TR-5 ..... 19 p2989 N84-28941 #
TR-5 ..... 21 p3359 N84-31304 #
TR-5 ..... 22 p3657 N84-33184 #
TR-6 ..... 01 p0140 N84-10916 #
TR-6 ..... 05 p0655 N84-14307 #
TR-6 ..... 09 p1321 N84-18630 #
TR-6 ..... 10 p1465 N84-19570 #
TR-6 ..... 10 p1467 N84-19582 #
TR-6 ..... 12 p1816 N84-21835 #
TR-6 ..... 12 p1908 N84-22427 #
TR-6 ..... 17 p2624 N84-26794 #
TR-6 ..... 17 p2768 N84-27577 #
TR-6 ..... 19 p3104 N84-29721 #
TR-6 ..... 22 p3547 N84-32454 #
TR-7 ..... 06 p0914 N84-15944 #

TR-7	07	p0970	N84-16285	#
TR-7	09	p1320	N84-18624	#
TR-7	10	p1466	N84-19573	#
TR-7	10	p1468	N84-19588	#
TR-7	10	p1551	N84-20162	#
TR-7	12	p1899	N84-22369	#
TR-7	17	p2765	N84-27561	#
TR-7	19	p3101	N84-29697	#
TR-8	07	p0970	N84-16284	#
TR-8	07	p1039	N84-16741	#
TR-8	09	p1320	N84-18626	#
TR-8	10	p1460	N84-19533	#
TR-8	10	p1551	N84-20163	#
TR-8	10	p1570	N84-20285	#
TR-8	19	p3016	N84-29121	#
TR-8	19	p3100	N84-29690	#
TR-8-8-83	13	p2022	N84-23111	#
TR-9	05	p0659	N84-14330	#
TR-9	07	p0979	N84-16342	#
TR-9	07	p1080	N84-17024	#
TR-9	19	p3104	N84-29720	#
TR-9	24	p3967	N84-35120	#
TR-08	08	p1124	N84-17305	#
TR-10	02	p0298	N84-11954	#
TR-10	04	p0612	N84-14041	#
TR-10	05	p0659	N84-14334	#
TR-10	07	p1080	N84-17022	#
TR-10	08	p1125	N84-17314	#
TR-10	11	p1706	N84-21124	#
TR-10	13	p2033	N84-23182	#
TR-10	22	p3546	N84-32449	#
TR-10	22	p3648	N84-33128	#
TR-10	23	p3714	N84-33544	#
TR-10	24	p3880	N84-34584	#
TR-10-83	02	p0230	N84-11508*	#
TR-11	02	p0298	N84-11954	#
TR-11	04	p0590	N84-13897	#
TR-11	05	p0647	N84-14256	#
TR-11	05	p0660	N84-14337	#
TR-11	05	p0744	N84-14888	#
TR-11	06	p0932	N84-16059	#
TR-11	10	p1529	N84-20018	#
TR-11	13	p2036	N84-23207	#
TR-11	22	p3559	N84-32538	#
TR-11	23	p3793	N84-34056	#
TR-11	24	p3964	N84-35101	#
TR-11-30-83	12	p1866	N84-22163	#
TR-12	05	p0647	N84-14254	#
TR-12	05	p0650	N84-14276	#
TR-12	05	p0752	N84-14933	#
TR-12	06	p0806	N84-15252	#
TR-12	06	p0934	N84-16067	#
TR-12	10	p1459	N84-19531	#
TR-12	17	p2723	N84-27331	#
TR-12	20	p3147	N84-29981	#
TR-12	22	p3546	N84-32450	#
TR-12	23	p3724	N84-33601	#
TR-12	24	p3912	N84-34775	#
TR-12-SER-B	15	p2382	N84-25287	#
TR-13	01	p0062	N84-10409	#
TR-13	05	p0647	N84-14255	#
TR-13	10	p1459	N84-19530	#
TR-13	15	p2413	N84-25483	#
TR-13	17	p2745	N84-27431	#
TR-13	19	p2968	N84-28931	#
TR-13	20	p3147	N84-29982	#
TR-13	22	p3662	N84-33215	#
TR-14	05	p0711	N84-14657	#
TR-14	06	p0896	N84-15815	#
TR-14	08	p1132	N84-17365	#
TR-14	10	p1577	N84-20330	#
TR-14	13	p1983	N84-22872	#
TR-14	19	p2983	N84-28906	#
TR-14	20	p3152	N84-30016	#
TR-14	20	p3280	N84-30819	#
TR-14	22	p3546	N84-32451	#
TR-14-ONR	08	p1203	N84-17844	#
TR-15	05	p0649	N84-14269	#
TR-15	05	p0674	N84-14426	#
TR-15	06	p0933	N84-16061	#
TR-15	07	p1071	N84-16961	#
TR-15	08	p1133	N84-17366	#
TR-15	10	p1459	N84-19528	#
TR-15	21	p3457	N84-31938	#
TR-15	23	p3822	N84-34236	#
TR-15-ONR	08	p1203	N84-17843	#
TR-16	05	p0649	N84-14270	#
TR-16	07	p0969	N84-16282	#
TR-16	10	p1459	N84-19527	#
TR-16	10	p1588	N84-20410	#
TR-16	13	p1957	N84-22721	#
TR-16	19	p2994	N84-28975	#
TR-16	20	p3147	N84-29983	#
TR-17	01	p0049	N84-10316	#
TR-17	13	p1956	N84-22718	#
TR-17	15	p2339	N84-25040	#
TR-17	18	p2814	N84-27863	#
TR-17	19	p3013	N84-29099	#
TR-17-ONR	07	p0970	N84-16286	#
TR-17-ONR	17	p2747	N84-27438	#
TR-18	01	p0049	N84-10316	#
TR-18	04	p0498	N84-13269	#
TR-18	04	p0587	N84-13881	#
TR-18	10	p1455	N84-19503	#
TR-18	10	p1528	N84-20010	#
TR-18	12	p1791	N84-21681	#
TR-18	13	p1957	N84-22723	#
TR-18	21	p3498	N84-32172	#
TR-19	01	p0049	N84-10316	#
TR-19	01	p0062	N84-10407	#
TR-19	05	p0659	N84-14331	#
TR-19	10	p1454	N84-19498	#
TR-19	12	p1791	N84-21683	#
TR-19	13	p1957	N84-22722	#
TR-19	20	p3161	N84-30075	#
TR-19-ONR	21	p3359	N84-31305	#
TR-20	01	p0138	N84-10907	#
TR-20	01	p0153	N84-11007	#
TR-20	05	p0659	N84-14335	#
TR-20	10	p1468	N84-19585	#
TR-20	13	p2047	N84-23284	#
TR-20	20	p3161	N84-30074	#
TR-21	01	p0153	N84-11006	#
TR-21	05	p0659	N84-14332	#
TR-21	08	p1226	N84-18007	#
TR-21	12	p1798	N84-21726	#
TR-21	13	p1957	N84-22725	#
TR-21	18	p2833	N84-27983	#
TR-22	05	p0654	N84-14298	#
TR-22	10	p1466	N84-19577	#
TR-22	12	p1898	N84-22361	#
TR-22	12	p1913	N84-22461	#
TR-22	13	p1956	N84-22720	#
TR-23	02	p0298	N84-11956	#
TR-23	09	p1283	N84-18378	#
TR-23	09	p1374	N84-18973	#
TR-23	10	p1455	N84-19500	#
TR-23	13	p1956	N84-22716	#
TR-23	21	p3387	N84-31493	#
TR-24	09	p1282	N84-18373	#
TR-24	09	p1374	N84-18974	#
TR-24	10	p1455	N84-19499	#
TR-24	11	p1691	N84-21032	#
TR-24	13	p2041	N84-23242	#
TR-25	11	p1637	N84-20705	#
TR-25	13	p1956	N84-22719	#
TR-25	23	p3742	N84-33718	#
TR-26	10	p1468	N84-19587	#
TR-26	13	p1957	N84-22724	#
TR-26	13	p1964	N84-22760	#
TR-27	20	p3148	N84-29990	#
TR-29	03	p0356	N84-12314	#
TR-29	03	p0427	N84-12798	#
TR-29	09	p1288	N84-18406	#
TR-29	12	p1901	N84-22381	#
TR-29	15	p2373	N84-25240	#
TR-29	20	p3148	N84-29987	#
TR-30	03	p0425	N84-12782	#
TR-30	04	p0588	N84-13887	#
TR-30	05	p0712	N84-14668	#
TR-30	09	p1288	N84-18407	#
TR-30	13	p1963	N84-22757	#
TR-30	17	p2767	N84-27572	#
TR-30	20	p3148	N84-29989	#
TR-30-PT-1	22	p3625	N84-32973	#
TR-30-09-83	13	p2022	N84-23110	#
TR-31	05	p0684	N84-14494	#
TR-31	09	p1376	N84-18986	#
TR-31	10	p1466	N84-19578	#
TR-31	20	p3147	N84-29985	#
TR-31-ONR	08	p1222	N84-17983	#
TR-32	01	p0031	N84-10195	#
TR-32	05	p0712	N84-14667	#
TR-32	08	p1137	N84-17396	#
TR-32	09	p1384	N84-19041	#
TR-32	13	p1964	N84-22758	#
TR-32	20	p3148	N84-29986	#
TR-32	23	p3714	N84-33544	#
TR-32-ONR	08	p1144	N84-17440	#
TR-33	01	p0095	N84-10617	#
TR-33	09	p1376	N84-18985	#
TR-33	20	p3147	N84-29984	#
TR-34	03	p0347	N84-12258	#
TR-34-ONR	16	p2551	N84-26369	#
TR-35	11	p1668	N84-20883	#
TR-35	18	p2930	N84-28579	#
TR-35-ONR	17	p2760	N84-27528	#
TR-36	13	p2001	N84-22981	#
TR-37-ONR	01	p0152	N84-11003	#
TR-38	06	p0914	N84-15942	#
TR-39-ONR	01	p0071	N84-10466	#
TR-40	10	p1455	N84-19501	#

TR-41	08	p1219	N84-17959	#
TR-41	13	p1956	N84-22714	#
TR-42-ONR	15	p2287	N84-24722	#
TR-43	01	p0142	N84-10931	#
TR-48	12	p1894	N84-22340	#
TR-50	13	p1963	N84-22755	#
TR-52	04	p0549	N84-13616	#
TR-52	22	p3664	N84-33226	#
TR-53	10	p1517	N84-19930	#
TR-53	24	p3908	N84-34758	#
TR-55	16	p2560	N84-26424	#
TR-58	03	p0425	N84-12786	#
TR-59	03	p0389	N84-12536	#
TR-60	19	p3036	N84-29257	#
TR-61	20	p3202	N84-30340	#
TR-66	01	p0133	N84-10871	#
TR-68	12	p1907	N84-22426	#
TR-69	09	p1383	N84-19030	#
TR-69	12	p1909	N84-22440	#
TR-70	09	p1377	N84-18994	#
TR-70	14	p2222	N84-24334	#
TR-71	09	p1383	N84-19032	#
TR-71	14	p2122	N84-23719	#
TR-72	09	p1378	N84-19004	#
TR-73	09	p1377	N84-18992	#
TR-74	09	p1384	N84-19040	#
TR-78	04	p0588	N84-13882	#
TR-79	22	p3628	N84-32987	#
TR-82	04	p0592	N84-13905	#
TR-82-04-121	06	p0897	N84-15826	#
TR-82-39	03	p0425	N84-12787	#
TR-83-1	19	p2999	N84-29002	#
TR-83-1-ONR	05	p0728	N84-14781	#
TR-83-2	01	p0116	N84-10755	#
TR-83-2	19	p2999	N84-29003	#
TR-83-3	04	p0579	N84-13822	#
TR-83-3	19	p2984	N84-28912	#
TR-83-4	19	p2999	N84-29004	#
TR-83-5	13	p2022	N84-23112	#
TR-83-6	02	p0281	N84-11844	#
TR-83-6	10	p1550	N84-20157	#
TR-83-9	22	p3624	N84-32981	#
TR-83-02	01	p0049	N84-10318	#
TR-83-06	01	p0037	N84-10231	#
TR-83-08	01	p0133	N84-10870	#
TR-83-13	01	p0049	N84-10317	#
TR-83-13	09	p1378	N84-19006	#
TR-83-18	01	p0056	N84-10366*	#
TR-83-21	01	p0136	N84-10891	#
TR-83-21-ATD	08	p1122	N84-17295	#
TR-83-21-ONR	09	p1363	N84-18903	#
TR-83-22	01	p0136	N84-10890	#
TR-83-22-ONR	10	p1547	N84-20142	#
TR-83-26	16	p2551	N84-26369	#
TR-83-29	02	p0285	N84-11869	#
TR-83-31	02	p0282	N84-11848	#
TR-83-37	06	p0904	N84-15869	#
TR-83-38	06	p0904	N84-15870	#
TR-83-39	06	p0904	N84-15871	#
TR-83-41	08	p1220	N84-17962	#
TR-83-44	08	p1219	N84-17957	#
TR-83-46	08	p1223	N84-17985	#
TR-83-003	05	p0733	N84-14815	#
TR-83-016	20	p3177	N84-30177	#
TR-83-157-AFOSR	05	p0739	N84-14857	#
TR-83-208	11	p1708	N84-21131	#
TR-83-249	19	p3079	N84-29535	#
TR-83-423	20	p3128	N84-29868	#
TR-83-815.1	07	p0974	N84-16313	#
TR-84-1	12	p1867	N84-22164	#
TR-84-1	14	p2186	N84-24097	#
TR-84-1	16	p2538	N84-26295	#
TR-84-1	22	p3586	N84-32712	#
TR-84-1-ONR	18	p2924	N84-28543	#
TR-84-2	14	p2186	N84-24096	#
TR-84-2	16	p2551	N84-26367	#
TR-84-2	19	p3072	N84-29489	#
TR-84-2	21	p3459	N84-31941	#
TR-84-4	16	p2551	N84-26368	#
TR-84-7	16	p2549	N84-26362	#
TR-84-7-1	23	p3815	N84-34191	#
TR-84-04-01	17	p2750	N84-27452	#
TR-84-04-02	18	p2921	N84-28523	#
TR-84-16	17	p2759	N84-27516	#
TR-84-37	24	p3952	N84-35024	#
TR-87	08	p1222	N84-17981	#
TR-99	04	p0580	N84-13825	#
TR-102	06	p0894	N84-15809	#
TR-112-15	04	p0573	N84-13772	#
TR-112-16	19	p3063	N84-29436	#
TR-113	04	p0589	N84-13890	#
TR-113-9	03	p0428	N84-12807	#
TR-113-11	06	p0901	N84-15848	#
TR-113-12-PT-1	09	p1376	N84-18984	#
TR-113-13	10	p1562	N84-20236	#
TR-113-15	15	p2392	N84-25353	#
TR-118B-6183	10	p1547	N84-20141	#
TR-119	16	p2567	N84-26473	#
TR-125	08	p1212	N84-17908	#
TR-130	10	p1569	N84-20280	#
TR-142	03	p0361	N84-12350	#
TR-152	04	p0517	N84-13394	#
TR-159-ONR	05	p0739	N84-14852	#
TR-163	20	p3178	N84-30184	#
TR-164	20	p3178	N84-30187	#
TR-165	08	p1151	N84-17489	#
TR-167	01	p0134	N84-10875	#
TR-175	01	p0132	N84-10867	#
TR-205	22	p3649	N84-33133	#
TR-210	07	p1013	N84-16572	#
TR-252-SER-2	21	p3475	N84-32022	#
TR-253-SER-2	21	p3475	N84-32021	#
TR-254-SER-2	21	p3473	N84-32012	#
TR-255-SER-2	23	p3820	N84-34223	#
TR-257-SER-2	22	p3648	N84-33126	#
TR-259-SER-2	22	p3648	N84-33125	#
TR-259-SER-2	22	p3648	N84-33127	#
TR-266-SER-2	21	p3475	N84-32024	#
TR-287	09	p1383	N84-19034	#
TR-296	08	p1097	N84-17131*	#
TR-299	09	p1383	N84-19031	#
TR-306	09	p1377	N84-18998	#
TR-331	07	p1063	N84-16894	#
TR-332	07	p1067	N84-16926	#
TR-333	06	p0900	N84-15844	#
TR-336	02	p0284	N84-11864	#
TR-343	15	p2398	N84-25391	#
TR-345	20	p3284	N84-30850	#
TR-346	22	p3648	N84-33130	#
TR-347	22	p3645	N84-33115	#
TR-545-5	08	p1178	N84-17673	#
TR-596	08	p1145	N84-17454	#
TR-618	21	p3348	N84-31241	#
TR-626	02	p0281	N84-11841	#
TR-629	04	p0521	N84-13422	#
TR-634	15	p2396	N84-25389	#
TR-637	01	p0119	N84-10771	#
TR-639	10	p1478	N84-19661	#
TR-641	10	p1479	N84-19664	#
TR-643	02	p0273	N84-11786	#
TR-644	05	p0642	N84-14224	#
TR-645	01	p0063	N84-10416	#
TR-646	08	p1144	N84-17447	#
TR-650	01	p0131	N84-10856	#
TR-652	01	p0049	N84-10319	#
TR-653	05	p0668	N84-14393	#
TR-656	06	p0823	N84-15366	#
TR-657	09	p1254	N84-18187	#
TR-659	07	p0994	N84-16443	#
TR-660	05	p0668	N84-14391	#
TR-663	10	p1481	N84-19678	#
TR-664	11	p1643	N84-20745	#
TR-669	24	p3967	N84-35118	#
TR-670	14	p2141	N84-23837	#
TR-671	13	p1982	N84-22871	#
TR-672	11	p1644	N84-20746	#
TR-674	10	p1569	N84-20279	#
TR-675	01	p0137	N84-10901	#
TR-676	18	p2829	N84-27963	#
TR-680	21	p3492	N84-32127	#
TR-683	24	p3894	N84-34662	#
TR-685	24	p3898	N84-34681	#
TR-686	24	p3963	N84-35098	#
TR-732	09	p1267	N84-18276*	#
TR-753-2	13	p1982	N84-22867	#
TR-821S	04	p0587	N84-13880	#
TR-0083(3476-04)-1	02	p0210	N84-11370	#
TR-0083(3505-30)-1	15	p2282	N84-24705	#
TR-0083(3603)-3	08	p1164	N84-17580	#
TR-0083(3610)-1	07	p1010	N84-16548	#
TR-0083(3726-02)-1	08	p1132	N84-17359	#
TR-0083(3728-01)-1	07	p0968	N84-16270	#
TR-0083(3729)-2	02	p0190	N84-11234	#
TR-0083(3785)-1	02	p0175	N84-11148	#
TR-0083(3908)-PT-1	08	p1139	N84-17411	#
TR-0083(3925-01)-2	02	p0226	N84-11479	#
TR-0083(3925-02)-1	02	p0213	N84-11395	#
TR-0083(3925-04)-1	04	p0521	N84-13428	#
TR-0083(3925-06)-3	07	p0992	N84-16433	#
TR-0083(3930-01)-6	07	p1009	N84-16546	#
TR-0083(3930-01)-8	01	p0121	N84-10788	#
TR-0083(3940-01)-2	16	p2580	N84-26550*	#
TR-0083(3940-06)-2	07	p0993	N84-16436	#
TR-0083(3945-01)-2	07	p0970	N84-16283	#
TR-0083(3945-06)-3	05	p0685	N84-14501	#
TR-0084(4429-01)-1	19	p3089	N84-29608	#
TR-0084(4603)-3	17	p2673	N84-27034	#
TR-0084(4728-02)-1	12	p1790	N84-21671	#
TR-0084(4753-06)-1	09	p1308	N84-18549	#
TR-0084(4753-08)-1	09	p1345	N84-18785	#
TR-0084(4925-02)-1	12	p1824	N84-21890	#
TR-0084(4925-04)-1	09	p1299	N84-18495	#

TR-0084(4925-06) ..... 23 p3844 N84-34387* #
TR-0084(4925-07)-2 ..... 10 p1595 N84-20451 #
TR-0084(4925-07)-3 ..... 13 p2092 N84-23550 #
TR-0084(4930-01)-2 ..... 13 p1995 N84-22950 #
TR-0084(4930-01)-4 ..... 12 p1819 N84-21859 #
TR-0084(4930-03)-1 ..... 09 p1388 N84-19066 #
TR-0084(4935-05)-1 ..... 13 p1987 N84-22897 #
TR-0084(4935-05)-2 ..... 13 p2001 N84-22982 #
TR-0084(4935-10)-1 ..... 22 p3586 N84-32710 #
TR-0084(4940-01)-1 ..... 13 p2092 N84-23548 #
TR-0084(4940-01)-2 ..... 14 p2252 N84-24522* #
TR-0084(4940-05)-2 ..... 22 p3623 N84-32954 #
TR-0084(4940-05)-4 ..... 12 p1847 N84-22042 #
TR-0084(4940-05)-5 ..... 14 p2175 N84-24032 #
TR-0084(4945-01)-2 ..... 21 p3392 N84-31523 #
TR-0084(4945-02)-1 ..... 17 p2683 N84-26988 #
TR-0084(4945-03)-4 ..... 23 p3724 N84-33598 #
TR-0084(4945-06)-1 ..... 12 p1914 N84-22472 #
TR-0084(4945-07)-1 ..... 12 p1914 N84-22467 #
TR-0084(9975)-1-VOL-2 ..... 18 p2924 N84-28542 #
TR-0084(9975)-1-VOL-3 ..... 19 p3075 N84-29512 #
TR-0084(9975)-2 ..... 13 p1926 N84-22538 #
TR-0884-8211-VOL-1 ..... 22 p3575 N84-32646* #
TR-0884-8211-VOL-2 ..... 22 p3576 N84-32647* #
TR-0884-8211-VOL-3 ..... 22 p3576 N84-32648* #
TR-0884-8211-VOL-4 ..... 22 p3576 N84-32649* #
TR-1183-8314 ..... 08 p1142 N84-17431* #
TR-1197-1 ..... 11 p1614 N84-20565* #
TR-1295 ..... 14 p2203 N84-24220 #
TR-1327 ..... 06 p1177 N84-17670 #
TR-1395 ..... 22 p3640 N84-33081 #
TR-2310 ..... 18 p2844 N84-28058* #
TR-6925 ..... 18 p2928 N84-28570 #
TR-60032-10-1 ..... 09 p1335 N84-18715 #
TR-83412 ..... 08 p1103 N84-17176 #
TR-662101 ..... 01 p0012 N84-10078* #

TRASANA-TR-43-83 ..... 23 p3820 N84-34224 #

TRB/NCHRP/SYN-102 ..... 12 p1804 N84-21762 #
TRB/NCHRP/SYN-104 ..... 14 p2135 N84-23798 #

TRB/TRR-902 ..... 05 p0701 N84-14602 #
TRB/TRR-916 ..... 12 p1804 N84-21763 #

TRITA-EPP-83-01 ..... 02 p0251 N84-11641 #
TRITA-EPP-83-02 ..... 02 p0297 N84-11947 #
TRITA-EPP-83-03 ..... 02 p0297 N84-11948 #
TRITA-EPP-83-04 ..... 02 p0307 N84-12013* #
TRITA-EPP-83-05 ..... 02 p0297 N84-11949 #
TRITA-EPP-83-06 ..... 12 p1922 N84-22520 #
TRITA-EPP-83-07 ..... 12 p1922 N84-22521 #
TRITA-EPP-83-08 ..... 18 p2935 N84-28611 #
TRITA-EPP-83-09 ..... 12 p1912 N84-22455 #
TRITA-EPP-83-10 ..... 17 p2766 N84-27564
TRITA-EPP-84-02 ..... 18 p2953 N84-28720* #
TRITA-EPP-84-04 ..... 18 p2952 N84-28713 #
TRITA-EPP-84-06 ..... 18 p2934 N84-28610 #

TRITA-FMI-47 ..... 15 p2358 N84-25146 #

TROSCOM-TR-84-1 ..... 11 p1599 N84-20474 #

TRO10 ..... 23 p3793 N84-34055 #
TRO12 ..... 23 p3801 N84-34104 #
TRO13 ..... 23 p3793 N84-34054 #

TRR-5 ..... 01 p0007 N84-10044 #

TRW-S/N-41354.000 ..... 19 p2966 N84-28796 #

TRW-35524-6003-UT-00 ..... 17 p2734 N84-27381 #
TRW-37243-EXEC-SUM ..... 13 p2008 N84-23021* #
TRW-37564-6001-UT-00 ..... 01 p0111 N84-10719 #
TRW-37564-6002-UT-00 ..... 19 p3006 N84-29056 #
TRW-38603-6009-UT-00 ..... 22 p3603 N84-32828* #
TRW-38884-6001-UT-00 ..... 01 p0017 N84-10109* #
TRW-39364-6006-UT-00 ..... 24 p3890 N84-34630 #
TRW-40789-6009-UT-00 ..... 13 p2010 N84-23039* #

TR83-25 ..... 08 p1102 N84-17166* #
TR002 ..... 01 p0104 N84-10674 #
TR121-597-003 ..... 17 p2754 N84-27478 #

TS-14-83 ..... 23 p3752 N84-33789 #

TSC-FAA-83-3 ..... 15 p2254 N84-24536 #

TSI-83-16-VOL-1 ..... 04 p0522 N84-13432 #
TSI-83-19-VOL-2 ..... 04 p0522 N84-13431 #

TSR-1 ..... 01 p0044 N84-10283 #

TT-80 ..... 03 p0360 N84-12343 #
TT-8302 ..... 03 p0425 N84-12779 #
TT-8401 ..... 18 p2854 N84-28122 #
TT-8402 ..... 20 p3204 N84-30353 #
TT-8403 ..... 18 p2850 N84-28095 #
TT-8404 ..... 24 p3937 N84-34919 #

TTCP/KTP3-83/1 ..... 11 p1645 N84-20756 #

TTD110513000 ..... 24 p3948 N84-34999 #

TTI-2-9-779-261-2 ..... 05 p0664 N84-14363 #

TTR-10 ..... 23 p3789 N84-34032* #

TTU/IDR-69D ..... 15 p2302 N84-24819 #

TUD-R-253 ..... 02 p0210 N84-11376 #

TUM-LRT-TB-7 ..... 10 p1450 N84-19470* #
TUM-LRT-TB-10 ..... 10 p1450 N84-19471* #

TUM-MATH-03-83-M04-200/1-FMA 02 p0279 N84-11828

TUM-MITT-163 ..... 05 p0739 N84-14851 #

TUM-M8304 ..... 02 p0279 N84-11828
TUM-M8312 ..... 16 p2475 N84-25863

TUM-SFB-81 ..... 08 p1160 N84-17552 #

TVA/OP/EDT-83/19 ..... 04 p0507 N84-13322 #
TVA/OP/EDT-83/23 ..... 02 p0304 N84-11993 #
TVA/OP/EDT-83/33 ..... 20 p3318 N84-31065 #
TVA/OP/EDT-83/35 ..... 20 p3181 N84-30208 #
TVA/OP/EDT-84-25 ..... 21 p3394 N84-31541 #

TVA/PUB-84/30 ..... 21 p3402 N84-31580 #

TWC/014N/2285/81 ..... 01 p0060 N84-10398 #

TWR-13009 ..... 03 p0355 N84-12311* #

U-OF-IOWA-83-4 ..... 08 p1245 N84-18136* #
U-OF-IOWA-83-5 ..... 10 p1537 N84-20069 #
U-OF-IOWA-83-8 ..... 01 p0104 N84-10678* #
U-OF-IOWA-83-11 ..... 01 p0104 N84-10679* #
U-OF-IOWA-83-17 ..... 07 p1034 N84-16707* #
U-OF-IOWA-83-18-REV ..... 07 p1076 N84-16995 #
U-OF-IOWA-83-23 ..... 03 p0432 N84-12832* #
U-OF-IOWA-83-25 ..... 04 p0805 N84-13996 #
U-OF-IOWA-83-26 ..... 17 p2727 N84-27360 #
U-OF-IOWA-83-28 ..... 17 p2728 N84-27362* #
U-OF-IOWA-84-2 ..... 17 p2727 N84-27358* #
U-OF-IOWA-84-3 ..... 16 p2558 N84-26413* #
U-OF-IOWA-84-5 ..... 15 p2367 N84-25204* #
U-OF-IOWA-84-8 ..... 16 p2525 N84-26215* #
U-OF-IOWA-84-9 ..... 24 p3919 N84-34812* #
U-OF-IOWA-84-14 ..... 22 p3539 N84-32406* #

U-ROCHESTER/DC/83/TR-40 ..... 06 p0797 N84-15193 #

UAG-88 ..... 14 p2177 N84-24041 #

UAH-RR-407 ..... 20 p3134 N84-29902* #

UAH-TR-83/1 ..... 01 p0122 N84-10791 #

UAH-367 ..... 20 p3182 N84-30218 #
UAH-368 ..... 20 p3182 N84-30219 #
UAH-376 ..... 20 p3182 N84-30217 #
UAH-393 ..... 20 p3237 N84-30550 #

UC-MIE-050183-15-ONR ..... 04 p0579 N84-13821 #
UC-MIE-070183-16-ONR ..... 04 p0544 N84-13560 #

UC-37 ..... 06 p0910 N84-15910 #
UC-63 ..... 19 p3049 N84-29348* #

UCB/AM-PP-1 ..... 12 p1823 N84-21882 #

UCB/AM-83/6 ..... 09 p1333 N84-18704 #
UCB/AM-83/8 ..... 09 p1332 N84-18698 #

UCB/EERC-82/20 ..... 04 p0516 N84-13391 #
UCB/EERC-82/21 ..... 05 p0694 N84-14556 #
UCB/EERC-82/25 ..... 04 p0516 N84-13393 #
UCB/EERC-82/26 ..... 04 p0505 N84-13308 #
UCB/EERC-82/27 ..... 04 p0550 N84-13623 #
UCB/EERC-83/05 ..... 09 p1319 N84-18617 #
UCB/EERC-83/10 ..... 09 p1335 N84-18714 #
UCB/EERC-83/15 ..... 09 p1297 N84-18480 #
UCB/EERC-83/16 ..... 20 p3205 N84-30357 #
UCB/EERC-83/18 ..... 20 p3205 N84-30358 #
UCB/EERC-83/19 ..... 20 p3203 N84-30343 #
UCB/EERC-83/22 ..... 20 p3171 N84-30137 #
UCB/EERC-83/23 ..... 20 p3204 N84-30355 #
UCB/EERC-83/24 ..... 20 p3171 N84-30136 #

UCB/ERL-M83/39 ..... 10 p1570 N84-20286 #
UCB/ERL-M83/45 ..... 10 p1573 N84-20311 #
UCB/ERL-M83/52 ..... 10 p1585 N84-20388 #
UCB/ERL-M83/57 ..... 10 p1570 N84-20287 #
UCB/ERL-M83/61 ..... 10 p1585 N84-20389 #

UCB/ERL-83/1 ..... 09 p1309 N84-18559 #

UCB/FM-83-7 ..... 05 p0681 N84-14475 #

UCB/RP/IE/A1013 ..... 02 p0231 N84-11517 #

UCB/RP/84/A1021 ..... 20 p3153 N84-30024 #

UCB/SESM-82/08 ..... 08 p1173 N84-17639 #

UCD-472-128 ..... 20 p3257 N84-30672 #

UCID-17530-REV-3 ..... 10 p1574 N84-20318 #
UCID-18574-83-1 ..... 07 p1066 N84-16939 #
UCID-18574-83-3 ..... 15 p2304 N84-24826 #
UCID-18852-REV-2 ..... 20 p3277 N84-30805 #
UCID-19029-REV-2 ..... 02 p0274 N84-11795 #
UCID-19323-83-2 ..... 12 p1823 N84-21884 #
UCID-19592-REV-1 ..... 21 p3466 N84-31979 #
UCID-19605-84-1 ..... 21 p3367 N84-31358 #
UCID-19655 ..... 05 p0709 N84-14646 #
UCID-19765 ..... 19 p2986 N84-28920 #
UCID-19782 ..... 01 p0119 N84-10774 #
UCID-19784 ..... 01 p0074 N84-10483 #
UCID-19788 ..... 03 p0380 N84-12473 #
UCID-19789 ..... 13 p1954 N84-22704 #
UCID-19806 ..... 01 p0124 N84-10810 #
UCID-19818 ..... 06 p0807 N84-15259 #
UCID-19819 ..... 02 p0197 N84-11279 #
UCID-19820 ..... 12 p1919 N84-22504 #
UCID-19821 ..... 01 p0162 N84-11065 #
UCID-19824 ..... 04 p0546 N84-13600 #
UCID-19828 ..... 01 p0144 N84-10948 #
UCID-19832 ..... 03 p0404 N84-12646 #
UCID-19839 ..... 03 p0434 N84-12848 #
UCID-19849 ..... 04 p0492 N84-13230 #
UCID-19850 ..... 09 p1256 N84-18199 #
UCID-19852 ..... 03 p0450 N84-12960 #
UCID-19853 ..... 08 p1226 N84-18012 #
UCID-19856 ..... 02 p0227 N84-11491 #
UCID-19856-83 ..... 02 p0283 N84-11852 #
UCID-19867 ..... 02 p0206 N84-11344 #
UCID-19873 ..... 04 p0582 N84-13845 #
UCID-19877-PT-1 ..... 04 p0523 N84-13438 #
UCID-19880 ..... 04 p0550 N84-13625 #
UCID-19881 ..... 04 p0492 N84-13228 #
UCID-19887 ..... 04 p0581 N84-13835 #
UCID-19889 ..... 04 p0578 N84-13809 #
UCID-19889-REV-1 ..... 20 p3267 N84-30729 #
UCID-19890 ..... 03 p0347 N84-12253 #
UCID-19902 ..... 07 p1056 N84-16837 #
UCID-19910 ..... 07 p1073 N84-16971 #
UCID-19913 ..... 05 p0705 N84-14623 #
UCID-19918 ..... 06 p0825 N84-15382 #
UCID-19925 ..... 10 p1482 N84-19687 #
UCID-19925-REV-1 ..... 20 p3175 N84-30164 #
UCID-19932 ..... 11 p1644 N84-20751 #
UCID-19937 ..... 08 p1221 N84-17974 #
UCID-19940 ..... 08 p1221 N84-17972 #
UCID-19944-PT-1 ..... 15 p2258 N84-24562 #
UCID-19947 ..... 10 p1564 N84-20248 #
UCID-19948 ..... 10 p1501 N84-19812 #
UCID-19950 ..... 11 p1689 N84-20889 #
UCID-19954 ..... 11 p1708 N84-21135 #
UCID-19956 ..... 12 p1920 N84-22507 #
UCID-19959 ..... 12 p1802 N84-21750 #
UCID-19960 ..... 10 p1575 N84-20324 #
UCID-19983 ..... 11 p1635 N84-20691 #
UCID-19984 ..... 11 p1661 N84-20837 #
UCID-19985 ..... 11 p1676 N84-20936 #
UCID-19990 ..... 12 p1813 N84-21820 #
UCID-19995 ..... 19 p3027 N84-29200 #
UCID-19998 ..... 12 p1884 N84-22279 #
UCID-20002 ..... 20 p3157 N84-30047 #
UCID-20004 ..... 12 p1848 N84-22044 #
UCID-20023 ..... 14 p2142 N84-23848 #
UCID-20026 ..... 20 p3297 N84-30932 #
UCID-20032 ..... 15 p2418 N84-25523 #
UCID-20034 ..... 20 p3168 N84-30113 #
UCID-20035 ..... 19 p3080 N84-29546 #
UCID-20045 ..... 20 p3187 N84-30247 #
UCID-20054 ..... 22 p3578 N84-32664 #
UCID-20061 ..... 20 p3179 N84-30197 #
UCID-20062 ..... 20 p3319 N84-31071 #
UCID-20064 ..... 21 p3462 N84-31952 #
UCID-20075 ..... 20 p3175 N84-30162 #
UCID-20078 ..... 21 p3357 N84-31295 #
UCID-20080 ..... 21 p3388 N84-31500 #
UCID-20085 ..... 21 p3345 N84-31223 #
UCID-20088 ..... 20 p3242 N84-30581 #

UCID-20116 ..... 22 p3602 N84-32816 #
UCID-20123 ..... 23 p3751 N84-33779 #
UCID-30183-REV-1 ..... 20 p3282 N84-30635 #
UCID-30184-REV-1 ..... 20 p3275 N84-30789 #
UCID-30195 ..... 04 p0585 N84-13865 #
UCID-30196 ..... 03 p0421 N84-12750 #
UCID-30197 ..... 10 p1565 N84-20252 #
UCID-30198 ..... 15 p2395 N84-25368* #

UCLA-CSD-840228 ..... 16 p2542 N84-26316 #

UCLA-ENG-EE065 ..... 02 p0213 N84-11396 #

UCLA-ENG-83-23 ..... 09 p1309 N84-18556 #
UCLA-ENG-83-24 ..... 06 p0825 N84-15377 #
UCLA-ENG-83-25 ..... 06 p0824 N84-15375 #
UCLA-ENG-83-26 ..... 06 p0825 N84-15378 #
UCLA-ENG-83-36 ..... 07 p0967 N84-16267 #
UCLA-ENG-83-37 ..... 07 p0967 N84-16269 #
UCLA-ENG-83-43 ..... 07 p0967 N84-16268 #
UCLA-ENG-83-47 ..... 08 p1215 N84-17928 #
UCLA-ENG-83-49 ..... 08 p1156 N84-17527* #
UCLA-ENG-84-12 ..... 23 p3731 N84-33651 #
UCLA-ENG-84-13 ..... 23 p3731 N84-33646 #
UCLA-ENG-84-21 ..... 19 p3082 N84-29561* #

UCLA-12 ..... 23 p3731 N84-33646 #
UCLA-13 ..... 23 p3731 N84-33651 #
UCLA-34P278-39 ..... 03 p0382 N84-12487 #

UCLA/PPG-764 ..... 21 p3502 N84-32196 #
UCLA/PPG-765-VOL-1 ..... 20 p3302 N84-30969 #

UCONN-ME-82-83-ONR-1 ..... 09 p1331 N84-18693 #

UCRL-TRANS-11916 ..... 07 p1014 N84-16574 #
UCRL-TRANS-11918 ..... 06 p0861 N84-15612 #
UCRL-TRANS-11923 ..... 06 p0844 N84-15507 #
UCRL-TRANS-11970 ..... 21 p3502 N84-32195 #
UCRL-TRANS-11972 ..... 21 p3502 N84-32194 #
UCRL-TRANS-11974 ..... 23 p3828 N84-34284 #
UCRL-TRANS-11976 ..... 23 p3829 N84-34295 #

UCRL-15501 ..... 01 p0068 N84-10444 #
UCRL-15529 ..... 01 p0090 N84-10586 #
UCRL-15532 ..... 01 p0068 N84-10442 #
UCRL-15534 ..... 02 p0258 N84-11687 #
UCRL-15536 ..... 01 p0090 N84-10589 #
UCRL-15538 ..... 03 p0380 N84-12475 #
UCRL-15542 ..... 02 p0256 N84-11677 #
UCRL-15543 ..... 01 p0073 N84-10482 #
UCRL-15549 ..... 07 p0972 N84-16296 #
UCRL-15555 ..... 07 p1077 N84-17005 #
UCRL-15556 ..... 07 p0981 N84-16356 #
UCRL-15557 ..... 07 p0981 N84-16357 #
UCRL-15559-VOL-1 ..... 06 p0851 N84-15547 #
UCRL-15562 ..... 06 p0874 N84-15688 #
UCRL-15566 ..... 10 p1453 N84-19488 #
UCRL-15567 ..... 10 p1494 N84-19772 #
UCRL-15570 ..... 11 p1710 N84-21147 #
UCRL-15572 ..... 11 p1716 N84-21192 #
UCRL-15599 ..... 20 p3310 N84-31021 #
UCRL-15600 ..... 22 p3601 N84-32814 #
UCRL-15603 ..... 21 p3371 N84-31391 #
UCRL-15606 ..... 20 p3267 N84-30731 #
UCRL-15607 ..... 22 p3642 N84-33091 #
UCRL-50007-82 ..... 03 p0439 N84-12883 #
UCRL-50021-82 ..... 14 p2151 N84-23887 #
UCRL-50025-83-3 ..... 11 p1647 N84-20772 #
UCRL-50400-VOL-25 ..... 14 p2206 N84-24239 #
UCRL-52434-VOL-11 ..... 01 p0051 N84-10326 #
UCRL-53049 ..... 01 p0037 N84-10236 #
UCRL-53342 ..... 01 p0161 N84-11060 #
UCRL-53362 ..... 01 p0163 N84-11071 #
UCRL-53387 ..... 01 p0047 N84-10301 #
UCRL-53391 ..... 04 p0600 N84-13957 #
UCRL-53399 ..... 16 p2551 N84-26366 #
UCRL-53424 ..... 01 p0097 N84-10634 #
UCRL-53434 ..... 03 p0381 N84-12482 #
UCRL-53439 ..... 04 p0616 N84-14067 #
UCRL-53441 ..... 12 p1794 N84-21696 #
UCRL-53444 ..... 20 p3243 N84-30587 #
UCRL-53447 ..... 21 p3362 N84-31326 #
UCRL-53448 ..... 11 p1665 N84-20864 #
UCRL-53468 ..... 21 p3366 N84-31354 #
UCRL-53472 ..... 19 p3030 N84-29215 #
UCRL-53504 ..... 20 p3156 N84-30045 #
UCRL-53509 ..... 21 p3410 N84-31631 #
UCRL-53525 ..... 20 p3273 N84-30779 #
UCRL-53526 ..... 20 p3247 N84-30608 #
UCRL-83604-REV-1 ..... 20 p3278 N84-30606 #
UCRL-86557-83 ..... 04 p0545 N84-13589 #
UCRL-87686 ..... 01 p0080 N84-10521 #
UCRL-88103 ..... 02 p0218 N84-11430 #
UCRL-88119 ..... 01 p0162 N84-11062 #
UCRL-88156 ..... 02 p0225 N84-11477 #

UCRL-88169 ..... 19 p3009 N84-29073 #
UCRL-88178 ..... 03 p0349 N84-12272 #
UCRL-88213 ..... 19 p3108 N84-29747 #
UCRL-88273 ..... 21 p3358 N84-31296 #
UCRL-88300 ..... 02 p0297 N84-11945 #
UCRL-88391 ..... 19 p3027 N84-29201 #
UCRL-88588 ..... 01 p0057 N84-10373 #
UCRL-88615 ..... 01 p0088 N84-10573 #
UCRL-88624 ..... 02 p0290 N84-11898 #
UCRL-88635 ..... 02 p0191 N84-11238 #
UCRL-88637 ..... 12 p1827 N84-21908 #
UCRL-88639 ..... 01 p0075 N84-10490 #
UCRL-88647 ..... 03 p0433 N84-12841 #
UCRL-88649-REV-2 ..... 04 p0560 N84-13689 #
UCRL-88665 ..... 01 p0074 N84-10485 #
UCRL-88668 ..... 04 p0610 N84-14028 #
UCRL-88669 ..... 07 p0998 N84-16472 #
UCRL-88670 ..... 04 p0542 N84-13569 #
UCRL-88671 ..... 04 p0528 N84-13471 #
UCRL-88672 ..... 06 p1152 N84-17501 #
UCRL-88682 ..... 04 p0542 N84-13566 #
UCRL-88682-REV-1 ..... 03 p0380 N84-12478 #
UCRL-88690 ..... 07 p1010 N84-16555 #
UCRL-88696 ..... 03 p0454 N84-12988 #
UCRL-88699 ..... 04 p0536 N84-13528 #
UCRL-88705 ..... 05 p0686 N84-14512 #
UCRL-88711 ..... 21 p3387 N84-31496 #
UCRL-88720 ..... 05 p0763 N84-15008 #
UCRL-88754 ..... 02 p0196 N84-11278 #
UCRL-88755 ..... 02 p0196 N84-11277 #
UCRL-88760 ..... 04 p0613 N84-14047 #
UCRL-88760-REV-1 ..... 15 p2304 N84-24827 #
UCRL-88800 ..... 03 p0430 N84-12816 #
UCRL-88811 ..... 03 p0368 N84-12397 #
UCRL-88814 ..... 04 p0540 N84-13553 #
UCRL-88823 ..... 02 p0206 N84-11343 #
UCRL-88824-REV-1 ..... 03 p0454 N84-12985 #
UCRL-88857 ..... 04 p0490 N84-13219 #
UCRL-88912 ..... 02 p0205 N84-11334 #
UCRL-88913 ..... 08 p1162 N84-17565 #
UCRL-88916 ..... 03 p0448 N84-12946 #
UCRL-88919 ..... 03 p0353 N84-12298 #
UCRL-88921 ..... 07 p1072 N84-16969 #
UCRL-88924 ..... 20 p3293 N84-30909 #
UCRL-88945 ..... 02 p0296 N84-11944 #
UCRL-88951 ..... 12 p1895 N84-22343 #
UCRL-88963 ..... 03 p0358 N84-12326 #
UCRL-88965 ..... 05 p0704 N84-14620 #
UCRL-88966 ..... 05 p0680 N84-14339 #
UCRL-88970 ..... 04 p0539 N84-13543 #
UCRL-88987 ..... 04 p0605 N84-13995 #
UCRL-88989 ..... 01 p0134 N84-10879 #
UCRL-88995 ..... 06 p0918 N84-15968 #
UCRL-89002 ..... 20 p3309 N84-31018 #
UCRL-89007 ..... 13 p1997 N84-22962 #
UCRL-89013 ..... 07 p1027 N84-16655 #
UCRL-89020 ..... 07 p1011 N84-16556 #
UCRL-89026 ..... 03 p0441 N84-12899 #
UCRL-89034-REV-1 ..... 01 p0045 N84-10288 #
UCRL-89067 ..... 01 p0075 N84-10491 #
UCRL-89094 ..... 04 p0534 N84-13512 #
UCRL-89097 ..... 03 p0380 N84-12472 #
UCRL-89119 ..... 15 p2339 N84-25038 #
UCRL-89147 ..... 07 p0994 N84-16444 #
UCRL-89148 ..... 02 p0227 N84-11485 #
UCRL-89156 ..... 01 p0068 N84-10445 #
UCRL-89157 ..... 03 p0426 N84-12789 #
UCRL-89163 ..... 01 p0151 N84-10990 #
UCRL-89165 ..... 20 p3267 N84-30732 #
UCRL-89172 ..... 01 p0134 N84-10880 #
UCRL-89186-REV-1 ..... 04 p0509 N84-13339 #
UCRL-89189 ..... 04 p0496 N84-13252 #
UCRL-89190 ..... 11 p1671 N84-20907 #
UCRL-89192 ..... 11 p1663 N84-20855 #
UCRL-89200 ..... 03 p0446 N84-12932 #
UCRL-89204 ..... 21 p3393 N84-31534 #
UCRL-89205 ..... 21 p3393 N84-31532 #
UCRL-89212 ..... 01 p0146 N84-10958 #
UCRL-89215 ..... 08 p1165 N84-17585 #
UCRL-89218 ..... 04 p0523 N84-13436 #
UCRL-89231 ..... 07 p1078 N84-17008 #
UCRL-89234 ..... 07 p1078 N84-17010 #
UCRL-89235 ..... 08 p1233 N84-18062 #
UCRL-89236 ..... 08 p1162 N84-17558 #
UCRL-89241 ..... 15 p2322 N84-24940 #
UCRL-89242 ..... 19 p3108 N84-29746 #
UCRL-89244 ..... 09 p1392 N84-19090 #
UCRL-89262 ..... 04 p0605 N84-13990 #
UCRL-89264 ..... 07 p1078 N84-17009 #
UCRL-89277 ..... 04 p0607 N84-14009 #
UCRL-89286 ..... 03 p0449 N84-12955 #
UCRL-89293-1 ..... 02 p0190 N84-11235 #
UCRL-89296 ..... 03 p0447 N84-12939 #
UCRL-89298 ..... 08 p1237 N84-18084 #
UCRL-89299 ..... 04 p0495 N84-13247 #
UCRL-89299-REV-1 ..... 11 p1626 N84-20844 #
UCRL-89320 ..... 09 p1388 N84-19062 #
UCRL-89325 ..... 04 p0500 N84-13279 #
UCRL-89326 ..... 04 p0542 N84-13568 #
UCRL-89333 ..... 08 p1138 N84-17404 #
UCRL-89337 ..... 01 p0144 N84-10949 #
UCRL-89341 ..... 01 p0085 N84-10553 #
UCRL-89345 ..... 04 p0608 N84-14015 #
UCRL-89356 ..... 04 p0600 N84-13958 #
UCRL-89364 ..... 03 p0454 N84-12991 #
UCRL-89369 ..... 12 p1817 N84-21843 #
UCRL-89382 ..... 02 p0297 N84-11946 #
UCRL-89385 ..... 06 p0896 N84-15818 #
UCRL-89397 ..... 07 p1003 N84-16503 #
UCRL-89400 ..... 11 p1654 N84-20800 #
UCRL-89422 ..... 02 p0224 N84-11472 #
UCRL-89424 ..... 05 p0657 N84-14317 #
UCRL-89430 ..... 10 p1499 N84-19797 #
UCRL-89432 ..... 03 p0458 N84-13013 #
UCRL-89436 ..... 07 p0972 N84-16301 #
UCRL-89439 ..... 08 p1234 N84-18063 #
UCRL-89444 ..... 03 p0367 N84-12390 #
UCRL-89447 ..... 05 p0755 N84-14956 #
UCRL-89448 ..... 08 p1233 N84-18060 #
UCRL-89454 ..... 07 p1081 N84-17033 #
UCRL-89460 ..... 18 p2878 N84-28272 #
UCRL-89471 ..... 08 p1233 N84-18057 #
UCRL-89474 ..... 20 p3278 N84-30807 #
UCRL-89507 ..... 11 p1644 N84-20752 #
UCRL-89537 ..... 02 p0225 N84-11473 #
UCRL-89538 ..... 03 p0446 N84-12933 #
UCRL-89541 ..... 03 p0380 N84-12476 #
UCRL-89541 ..... 04 p0602 N84-13972 #
UCRL-89549 ..... 03 p0453 N84-12963 #
UCRL-89552 ..... 22 p3600 N84-32801 #
UCRL-89566 ..... 02 p0196 N84-11274 #
UCRL-89569 ..... 19 p3028 N84-29203 #
UCRL-89570 ..... 08 p1162 N84-17564 #
UCRL-89586 ..... 08 p1229 N84-18031 #
UCRL-89593 ..... 04 p0605 N84-13991 #
UCRL-89599 ..... 02 p0219 N84-11437 #
UCRL-89602 ..... 04 p0583 N84-13849 #
UCRL-89604 ..... 02 p0196 N84-11272 #
UCRL-89625 ..... 13 p1954 N84-22705 #
UCRL-89626 ..... 13 p1954 N84-22706 #
UCRL-89635 ..... 07 p0994 N84-16445 #
UCRL-89636 ..... 15 p2399 N84-25396 #
UCRL-89646 ..... 07 p0979 N84-16347 #
UCRL-89648 ..... 13 p1996 N84-22954 #
UCRL-89651 ..... 04 p0565 N84-13722 #
UCRL-89664 ..... 09 p1290 N84-18424 #
UCRL-89674 ..... 03 p0442 N84-12900 #
UCRL-89687 ..... 20 p3166 N84-30104 #
UCRL-89699 ..... 04 p0594 N84-13918 #
UCRL-89706 ..... 04 p0583 N84-13848 #
UCRL-89709 ..... 04 p0545 N84-13588 #
UCRL-89712 ..... 04 p0501 N84-13287 #
UCRL-89723 ..... 20 p3149 N84-29996 #
UCRL-89724 ..... 21 p3401 N84-31578 #
UCRL-89739 ..... 05 p0676 N84-14447 #
UCRL-89740 ..... 04 p0578 N84-13810 #
UCRL-89740 ..... 15 p2395 N84-25369 #
UCRL-89743-REV-1 ..... 20 p3310 N84-31023 #
UCRL-89746 ..... 04 p0586 N84-13868 #
UCRL-89750 ..... 03 p0382 N84-12486 #
UCRL-89752 ..... 04 p0590 N84-13902 #
UCRL-89753 ..... 07 p0972 N84-16295 #
UCRL-89755 ..... 15 p2395 N84-25367 #
UCRL-89756 ..... 04 p0605 N84-13993 #
UCRL-89759 ..... 11 p1737 N84-21332 #
UCRL-89767 ..... 03 p0447 N84-12940 #
UCRL-89769 ..... 03 p0449 N84-12954 #
UCRL-89771 ..... 03 p0448 N84-12948 #
UCRL-89774 ..... 20 p3154 N84-30026 #
UCRL-89776 ..... 04 p0605 N84-13992 #
UCRL-89779 ..... 15 p2298 N84-24793 #
UCRL-89803 ..... 14 p2225 N84-24354 #
UCRL-89811 ..... 06 p0939 N84-16102 #
UCRL-89833 ..... 06 p0898 N84-15831 #
UCRL-89836 ..... 12 p1808 N84-21786 #
UCRL-89841 ..... 07 p1090 N84-17087 #
UCRL-89845 ..... 07 p0981 N84-16358 #
UCRL-89848 ..... 15 p2337 N84-25033 #
UCRL-89852 ..... 07 p0960 N84-16223 #
UCRL-89881 ..... 06 p0802 N84-15226 #
UCRL-89882 ..... 04 p0622 N84-14104 #
UCRL-89883 ..... 19 p3030 N84-29216 #
UCRL-89866 ..... 18 p2847 N84-28080 #
UCRL-89867 ..... 04 p0540 N84-13557 #
UCRL-89868 ..... 19 p3106 N84-29738 #
UCRL-89872 ..... 21 p3371 N84-31388 #
UCRL-89881 ..... 04 p0598 N84-13947 #
UCRL-89891 ..... 11 p1693 N84-21042 #
UCRL-89892 ..... 04 p0622 N84-14106 #
UCRL-89913 ..... 08 p1213 N84-17914 #
UCRL-89914 ..... 10 p1596 N84-20458 #
UCRL-89915 ..... 20 p3266 N84-30720 #

UCRL-89922 ..... 04 p0547 N84-13601 #
UCRL-89923 ..... 06 p0845 N84-15509 #
UCRL-89933 ..... 21 p3371 N84-31390 #
UCRL-89939 ..... 07 p1055 N84-16836 #
UCRL-89964 ..... 06 p0882 N84-15737 #
UCRL-89964-REV-1 ..... 20 p3241 N84-30577 #
UCRL-89966-REV-1 ..... 21 p3392 N84-31526 #
UCRL-89969 ..... 07 p1053 N84-16816 #
UCRL-89979 ..... 10 p1575 N84-20319 #
UCRL-90030 ..... 11 p1716 N84-21191 #
UCRL-90033 ..... 20 p3194 N84-30288 #
UCRL-90034 ..... 18 p2847 N84-28079 #
UCRL-90036 ..... 11 p1738 N84-21339 #
UCRL-90053 ..... 22 p3626 N84-32975 #
UCRL-90069 ..... 12 p1884 N84-22282 #
UCRL-90089 ..... 20 p3194 N84-30283 #
UCRL-90099 ..... 10 p1565 N84-20253 #
UCRL-90107 ..... 12 p1908 N84-22433 #
UCRL-90109 ..... 10 p1586 N84-20398 #
UCRL-90138 ..... 15 p2344 N84-25069 #
UCRL-90142 ..... 20 p3170 N84-30132 #
UCRL-90154 ..... 22 p3588 N84-32728 #
UCRL-90176 ..... 12 p1911 N84-22449 #
UCRL-90194 ..... 13 p2044 N84-23260 #
UCRL-90218 ..... 11 p1732 N84-21299 #
UCRL-90219 ..... 15 p2344 N84-25070 #
UCRL-90220 ..... 13 p2043 N84-23259 #
UCRL-90234 ..... 20 p3186 N84-30244 #
UCRL-90251 ..... 22 p3549 N84-32467 #
UCRL-90252 ..... 22 p3606 N84-32844 #
UCRL-90276 ..... 22 p3643 N84-33099 #
UCRL-90294 ..... 13 p1998 N84-22964 #
UCRL-90295 ..... 22 p3601 N84-32815 #
UCRL-90318 ..... 22 p3548 N84-32463 #
UCRL-90319 ..... 23 p3715 N84-33550 #
UCRL-90334 ..... 21 p3410 N84-31627 #
UCRL-90335 ..... 21 p3410 N84-31628 #
UCRL-90351 ..... 20 p3267 N84-30727 #
UCRL-90376 ..... 20 p3166 N84-30107 #
UCRL-90392 ..... 21 p3462 N84-31951 #
UCRL-90425 ..... 20 p3305 N84-30991 #
UCRL-90437 ..... 18 p2933 N84-28603 #
UCRL-90449 ..... 21 p3400 N84-31571 #
UCRL-90465 ..... 15 p2365 N84-25188 #
UCRL-90468 ..... 15 p2421 N84-25539 #
UCRL-90475 ..... 22 p3606 N84-32845 #
UCRL-90508 ..... 18 p2847 N84-28078 #
UCRL-90509 ..... 20 p3203 N84-30344 #
UCRL-90515 ..... 19 p3109 N84-29752 #
UCRL-90577 ..... 20 p3198 N84-30312 #
UCRL-90604 ..... 22 p3561 N84-32548 #
UCRL-90642 ..... 21 p3372 N84-31394 #
UCRL-90657 ..... 21 p3371 N84-31393 #
UCRL-90662 ..... 22 p3595 N84-32768 #
UCRL-90687 ..... 20 p3295 N84-30921 #
UCRL-90706 ..... 21 p3495 N84-32146 #
UCRL-90784 ..... 22 p3578 N84-32663 #
UCRL-90835 ..... 21 p3401 N84-31575 #
UCRL-90927 ..... 22 p3660 N84-33201 #

UCT/DEECS/TR-83-7 ..... 06 p0900 N84-15842 #

UDR-TM-84-14 ..... 22 p3555 N84-32510 #
UDR-TM-84-20 ..... 22 p3555 N84-32511 #

UDR-TR-82-25-PT-4 ..... 03 p0331 N84-12159 #
UDR-TR-82-73 ..... 01 p0078 N84-10507 #
UDR-TR-82-74 ..... 19 p2998 N84-28998 #
UDR-TR-82-112 ..... 01 p0120 N84-10782 #
UDR-TR-82-114 ..... 01 p0120 N84-10783 #
UDR-TR-82-136 ..... 06 p0786 N84-15146 #
UDR-TR-82-141 ..... 13 p2002 N84-22988 #
UDR-TR-82-153 ..... 21 p3405 N84-31600 #
UDR-TR-83-04 ..... 08 p1159 N84-17543 #
UDR-TR-83-06 ..... 06 p0897 N84-15822 #
UDR-TR-83-11 ..... 07 p1016 N84-16593 #
UDR-TR-83-19 ..... 03 p0352 N84-12290 #
UDR-TR-83-20 ..... 03 p0331 N84-12161 #
UDR-TR-83-22 ..... 08 p1158 N84-17542 #
UDR-TR-83-25-PT-1 ..... 03 p0331 N84-12158 #
UDR-TR-83-25-PT-2 ..... 03 p0331 N84-12157 #
UDR-TR-83-37 ..... 20 p3126 N84-29856 #
UDR-TR-83-38 ..... 08 p1123 N84-17303 #
UDR-TR-83-43 ..... 05 p0627 N84-14124 #
UDR-TR-83-51 ..... 14 p2184 N84-24086 #
UDR-TR-83-52 ..... 08 p1159 N84-17544 #
UDR-TR-83-57 ..... 01 p0094 N84-10612* #
UDR-TR-83-64 ..... 09 p1252 N84-18174 #
UDR-TR-83-70 ..... 13 p1930 N84-22555 #
UDR-TR-83-95 ..... 13 p1964 N84-22762 #
UDR-TR-83-120 ..... 16 p2469 N84-25824 #
UDR-TR-83-137-VOL-1 ..... 20 p3199 N84-30320 #
UDR-TR-84-08 ..... 12 p1798 N84-21728 #
UDR-TR-84-12 ..... 23 p3691 N84-33395 #
UDR-TR-84-36 ..... 17 p2768 N84-27576 #

UI-83-31 ..... 13 p2091 N84-23545* #

UIC/DQM/A83-2 ..... 11 p1715 N84-21186 #

UICDCS-R-83-1121 ..... 08 p1222 N84-17978 #

UIEM-83-7 ..... 10 p1478 N84-19660 #
UIEM-83-12 ..... 07 p0993 N84-16438 #
UIEM-83-13 ..... 07 p0997 N84-16466 #
UIEM-83-14 ..... 08 p1144 N84-17444 #

UILU-ENG-83-0510 ..... 14 p2150 N84-23882 #
UILU-ENG-83-1712 ..... 08 p1222 N84-17978 #
UILU-ENG-83-1721 ..... 11 p1716 N84-21195 #
UILU-ENG-83-1734 ..... 19 p3112 N84-29773 #
UILU-ENG-83-2209 ..... 20 p3280 N84-30821 #
UILU-ENG-83-2210 ..... 20 p3174 N84-30157 #
UILU-ENG-83-2211 ..... 20 p3283 N84-30849 #
UILU-ENG-83-2212 ..... 20 p3162 N84-30077 #
UILU-ENG-83-2213 ..... 20 p3308 N84-31012 #
UILU-ENG-83-2214 ..... 20 p3177 N84-30181 #
UILU-ENG-83-2215 ..... 20 p3178 N84-30182 #
UILU-ENG-83-2216 ..... 20 p3281 N84-30825 #
UILU-ENG-83-2217 ..... 20 p3280 N84-30822 #
UILU-ENG-83-2218 ..... 20 p3280 N84-30824 #
UILU-ENG-83-2219 ..... 20 p3174 N84-30158 #
UILU-ENG-83-2227 ..... 20 p3266 N84-30723 #
UILU-ENG-83-2503 ..... 03 p0407 N84-12564* #
UILU-ENG-83-2545 ..... 01 p0153 N84-11004 #
UILU-ENG-83-2546 ..... 10 p1478 N84-19660 #
UILU-ENG-83-2557 ..... 07 p0993 N84-16438 #
UILU-ENG-83-2558 ..... 07 p0997 N84-16466 #
UILU-ENG-83-2568 ..... 08 p1144 N84-17444 #
UILU-ENG-83-4005 ..... 01 p0079 N84-10514 #
UILU-ENG-84-0501 ..... 08 p1098 N84-17140* #
UILU-ENG-84-1719 ..... 22 p3641 N84-33087 #
UILU-ENG-84-2547 ..... 16 p2481 N84-25909* #
UILU-ENG-84-2548 ..... 22 p3601 N84-32807 #
UILU-ENG-84-2552 ..... 20 p3172 N84-30145* #
UILU-ENG-84-4004 ..... 18 p2836 N84-27999* #
UILU-ENG-84-4006 ..... 24 p3890 N84-34632 #

UILU-EPL-83-2/ONR-83-2 ..... 05 p0715 N84-14686 #

UIO-AR-83-05 ..... 03 p0409 N84-12674 #

UIO-SR-84-01 ..... 17 p2728 N84-27367 #
UIO-SR-84-02 ..... 20 p3243 N84-30588 #

UIUCDCS-R-83-1133 ..... 11 p1716 N84-21195 #
UIUCDCS-R-83-1154 ..... 19 p3112 N84-29773 #
UIUCDCS-R-84-1169 ..... 22 p3641 N84-33087 #

UK/DC/TR-1 ..... 19 p2998 N84-28997 #
UK/DC/TR-2 ..... 24 p3880 N84-34581 #

ULRF-424/CAR ..... 16 p2526 N84-26219 #
ULRF-425/CAR ..... 15 p2388 N84-25210 #
ULRF-426/CAR ..... 08 p1187 N84-17732 #

ULT-2002 ..... 14 p2207 N84-24244 #

UM-RSMAS-83015 ..... 09 p1350 N84-18824 #
UM-RSMAS-83016 ..... 09 p1350 N84-18823 #

UM-017385-F ..... 05 p0661 N84-14345 #
UM-018404-F ..... 07 p1002 N84-16497 #

UMASS-ECE-AUG83-1 ..... 05 p0734 N84-14817 #
UMASS-ECE-AUG83-2 ..... 06 p0901 N84-15850 #

UMD-DMSS-83/5 ..... 06 p0855 N84-15568 #
UMD-DMSS-83/6 ..... 09 p1382 N84-19029 #
UMD-DMSS-84/1 ..... 10 p1571 N84-20293 #
UMD-DMSS-84/3 ..... 18 p2851 N84-28103 #

UMET-1 ..... 07 p1036 N84-16719* #

UMTA-MA-06-0025-83-6-VOL-1 ..... 02 p0217 N84-11420 #
UMTA-MA-06-0025-83-7-VOL-2 ..... 02 p0217 N84-11421 #

UMTA-OR-06-0007-83-1 ..... 11 p1753 N84-21446 #

UMTA-URT-41-83-11 ..... 22 p3638 N84-33067 #

UMTRI-83-8 ..... 08 p1167 N84-17598 #
UMTRI-84-8 ..... 22 p3590 N84-32742 #

UNC-ORSA-TR-83/7 ..... 15 p2397 N84-25383 #

UNC-WRRI-83-193 ..... 06 p0867 N84-15645 #

UNC/ORSA/TR-83/2 ..... 03 p0427 N84-12800 #
UNC/ORSA/TR-83/5 ..... 07 p1067 N84-16925 #
UNC/ORSA/TR-84/5 ..... 21 p3473 N84-32015 #

UNI-SA-106 ..... 02 p0232 N84-11523 #
UNI-SA-116 ..... 06 p1172 N84-17632 #

UNIDO/IO.563 ..... 14 p2130 N84-23772 #

UNIDO/IS.440 ..... 21 p3467 N84-31986 #

UNIDO/WG.383/3-ADD-1 ..... 12 p1886 N84-22295 #

UP-VFRC-33-83 ..... 13 p1983 N84-22874 #

UPITT/LRDC/ONR/APS-14 ..... 14 p2186 N84-24099 #
UPITT/LRDC/ONR/APS-15 ..... 24 p3949 N84-35003 #

UPITT/LRDC/ONR/KBC-8 ..... 08 p1202 N84-17840 #

UR/DC-83-TR-1 ..... 08 p1132 N84-17360 #

UROCHESTER/DC/83/TR-34 ..... 01 p0038 N84-10239 #
UROCHESTER/DC/83/TR-36 ..... 01 p0141 N84-10928 #
UROCHESTER/DC/83/TR-37 ..... 01 p0066 N84-10562 #
UROCHESTER/DC/83/TR-39 ..... 05 p0742 N84-14871 #
UROCHESTER/DC/83/TR-41 ..... 07 p1072 N84-16964 #
UROCHESTER/DC/83/TR-42 ..... 07 p1072 N84-16962 #
UROCHESTER/DC/83/TR-43 ..... 08 p1164 N84-17581 #
UROCHESTER/DC/83/TR-44 ..... 09 p1322 N84-18641 #
UROCHESTER/DC/83/TR-45 ..... 09 p1321 N84-18633 #
UROCHESTER/DC/83/TR-46 ..... 09 p1321 N84-18632 #
UROCHESTER/DC/84/TR-47 ..... 10 p1455 N84-19504 #
UROCHESTER/DC/84/TR-48 ..... 12 p1914 N84-22469 #
UROCHESTER/DC/84/TR-49 ..... 12 p1914 N84-22473 #
UROCHESTER/DC/84/TR-50 ..... 16 p2553 N84-26380 #
UROCHESTER/DC/84/TR-51 ..... 19 p2969 N84-28938 #

US-CIRC-929 ..... 18 p2866 N84-28192 #

US-PATENT-APPL-SN-017689 ..... 19 p2956 N84-28732*
US-PATENT-APPL-SN-037194 ..... 18 p2848 N84-28081*
US-PATENT-APPL-SN-053465 ..... 22 p3532 N84-32364
US-PATENT-APPL-SN-128230 ..... 18 p2916 N84-28491*
US-PATENT-APPL-SN-136652 ..... 15 p2260 N84-24577*
US-PATENT-APPL-SN-147695 ..... 18 p2828 N84-27952*
US-PATENT-APPL-SN-157150 ..... 23 p3756 N84-33808*
US-PATENT-APPL-SN-185868 ..... 07 p0966 N84-16262*
US-PATENT-APPL-SN-192742 ..... 22 p3571 N84-32617
US-PATENT-APPL-SN-196877 ..... 08 p1161 N84-17555*
US-PATENT-APPL-SN-199766 ..... 18 p2845 N84-28065*
US-PATENT-APPL-SN-199768 ..... 13 p1962 N84-22746*
US-PATENT-APPL-SN-210405 ..... 02 p0293 N84-11921*
US-PATENT-APPL-SN-210496 ..... 03 p0375 N84-12444*
US-PATENT-APPL-SN-210902 ..... 22 p3600 N84-32800
US-PATENT-APPL-SN-219681 ..... 02 p0269 N84-11758*
US-PATENT-APPL-SN-224231 ..... 24 p3855 N84-34443*
US-PATENT-APPL-SN-225499 ..... 03 p0382 N84-12491*
US-PATENT-APPL-SN-229693 ..... 13 p1997 N84-22958*
US-PATENT-APPL-SN-235472 ..... 18 p2916 N84-28492*
US-PATENT-APPL-SN-238257 ..... 23 p3694 N84-33410*
US-PATENT-APPL-SN-238791 ..... 05 p0742 N84-14873*
US-PATENT-APPL-SN-238888 ..... 18 p2848 N84-28082*
US-PATENT-APPL-SN-241154 ..... 18 p2791 N84-27713*
US-PATENT-APPL-SN-241155 ..... 05 p0658 N84-14324*
US-PATENT-APPL-SN-242795 ..... 13 p1997 N84-22957*
US-PATENT-APPL-SN-243683 ..... 05 p0673 N84-14424*
US-PATENT-APPL-SN-243683 ..... 23 p3734 N84-33660*
US-PATENT-APPL-SN-243684 ..... 03 p0383 N84-12492*
US-PATENT-APPL-SN-245571 ..... 13 p1931 N84-22560*
US-PATENT-APPL-SN-249304 ..... 05 p0683 N84-14491*
US-PATENT-APPL-SN-251009 ..... 07 p0995 N84-16452*
US-PATENT-APPL-SN-256868 ..... 22 p3596 N84-32774
US-PATENT-APPL-SN-257683 ..... 22 p3596 N84-32775
US-PATENT-APPL-SN-259211 ..... 05 p0698 N84-14583*
US-PATENT-APPL-SN-259212 ..... 13 p1992 N84-22931*
US-PATENT-APPL-SN-259786 ..... 24 p3897 N84-34674
US-PATENT-APPL-SN-263829 ..... 03 p0330 N84-12154*
US-PATENT-APPL-SN-264378 ..... 18 p2928 N84-28565*
US-PATENT-APPL-SN-264381 ..... 18 p2899 N84-28388*
US-PATENT-APPL-SN-264381 ..... 18 p2899 N84-28389*
US-PATENT-APPL-SN-266253 ..... 13 p1929 N84-22546*
US-PATENT-APPL-SN-266687 ..... 13 p1975 N84-22820*
US-PATENT-APPL-SN-267178 ..... 02 p0293 N84-11920*
US-PATENT-APPL-SN-267179 ..... 03 p0375 N84-12445*
US-PATENT-APPL-SN-268501-81 ..... 24 p3893 N84-34652
US-PATENT-APPL-SN-269171 ..... 22 p3583 N84-32563
US-PATENT-APPL-SN-270763 ..... 05 p0686 N84-14509*
US-PATENT-APPL-SN-271056-81 ..... 24 p3893 N84-34653
US-PATENT-APPL-SN-272406 ..... 05 p0673 N84-14422*
US-PATENT-APPL-SN-274706 ..... 13 p1992 N84-22929*
US-PATENT-APPL-SN-275909 ..... 07 p1076 N84-16993* #
US-PATENT-APPL-SN-276076 ..... 07 p1071 N84-16959* #
US-PATENT-APPL-SN-276749 ..... 13 p2042 N84-23247*
US-PATENT-APPL-SN-280155 ..... 02 p0187 N84-11214*
US-PATENT-APPL-SN-284286 ..... 18 p2867 N84-28203*
US-PATENT-APPL-SN-284287 ..... 18 p2827 N84-27951*
US-PATENT-APPL-SN-284289 ..... 13 p1988 N84-22903*
US-PATENT-APPL-SN-284314 ..... 07 p0996 N84-16454*
US-PATENT-APPL-SN-287451 ..... 22 p3572 N84-32619
US-PATENT-APPL-SN-288267 ..... 13 p1961 N84-22745*
US-PATENT-APPL-SN-293414 ..... 07 p1011 N84-16560*
US-PATENT-APPL-SN-293589 ..... 22 p3656 N84-33174
US-PATENT-APPL-SN-296137 ..... 18 p2932 N84-28590*
US-PATENT-APPL-SN-297488 ..... 07 p1011 N84-16561*
US-PATENT-APPL-SN-297524 ..... 05 p0673 N84-14424*
US-PATENT-APPL-SN-297524 ..... 13 p1985 N84-22886*
US-PATENT-APPL-SN-297527 ..... 22 p3656 N84-33176
US-PATENT-APPL-SN-298700 ..... 24 p3909 N84-34763
US-PATENT-APPL-SN-298712 ..... 24 p3909 N84-34762
US-PATENT-APPL-SN-301077 ..... 05 p0673 N84-14421*
US-PATENT-APPL-SN-303448 ..... 22 p3581 N84-32676
US-PATENT-APPL-SN-305231 ..... 24 p3897 N84-34673
US-PATENT-APPL-SN-308203 ..... 03 p0370 N84-12406*
US-PATENT-APPL-SN-309292 ..... 18 p2848 N84-28085*
US-PATENT-APPL-SN-313861 ..... 24 p3940 N84-34941
US-PATENT-APPL-SN-314702 ..... 07 p1069 N84-16940*
US-PATENT-APPL-SN-314928 ..... 24 p3893 N84-34651*
US-PATENT-APPL-SN-315583 ..... 23 p3750 N84-33769*
US-PATENT-APPL-SN-315584 ..... 07 p0965 N84-16255*
US-PATENT-APPL-SN-315588 ..... 13 p1930 N84-22551*
US-PATENT-APPL-SN-315599 ..... 22 p3580 N84-32673
US-PATENT-APPL-SN-316703 ..... 22 p3656 N84-33175
US-PATENT-APPL-SN-317026 ..... 22 p3541 N84-32418
US-PATENT-APPL-SN-317658 ..... 07 p1009 N84-16542*
US-PATENT-APPL-SN-320999 ..... 23 p3750 N84-33771
US-PATENT-APPL-SN-322312 ..... 13 p1955 N84-22709*
US-PATENT-APPL-SN-322314 ..... 03 p0375 N84-12443*
US-PATENT-APPL-SN-325083 ..... 07 p0996 N84-16456*
US-PATENT-APPL-SN-325932 ..... 07 p0996 N84-16455*
US-PATENT-APPL-SN-326972 ..... 23 p3785 N84-34004
US-PATENT-APPL-SN-329557 ..... 22 p3577 N84-32659 #
US-PATENT-APPL-SN-335036 ..... 03 p0406 N84-12654*
US-PATENT-APPL-SN-337349 ..... 22 p3656 N84-33172
US-PATENT-APPL-SN-337350 ..... 22 p3656 N84-33173
US-PATENT-APPL-SN-338386 ..... 07 p0961 N84-16231*
US-PATENT-APPL-SN-339205 ..... 22 p3656 N84-33177
US-PATENT-APPL-SN-339258 ..... 22 p3534 N84-32376
US-PATENT-APPL-SN-339261 ..... 22 p3597 N84-32779
US-PATENT-APPL-SN-341459 ..... 24 p3856 N84-34449
US-PATENT-APPL-SN-342857 ..... 18 p2929 N84-28575*
US-PATENT-APPL-SN-342871 ..... 23 p3723 N84-33589*
US-PATENT-APPL-SN-350472 ..... 05 p0673 N84-14424*
US-PATENT-APPL-SN-350473 ..... 13 p1931 N84-22559*
US-PATENT-APPL-SN-350474 ..... 13 p1992 N84-22928*
US-PATENT-APPL-SN-350475 ..... 18 p2838 N84-28017*
US-PATENT-APPL-SN-350476 ..... 13 p1960 N84-22734*
US-PATENT-APPL-SN-350477 ..... 23 p3749 N84-33765*
US-PATENT-APPL-SN-352821 ..... 18 p2868 N84-28205*
US-PATENT-APPL-SN-352827 ..... 18 p2838 N84-28015*
US-PATENT-APPL-SN-352831 ..... 07 p1006 N84-16523*
US-PATENT-APPL-SN-353677 ..... 24 p3902 N84-34706
US-PATENT-APPL-SN-353682 ..... 22 p3655 N84-33171
US-PATENT-APPL-SN-357440 ..... 22 p3637 N84-33055
US-PATENT-APPL-SN-358088 ..... 23 p3749 N84-33767*
US-PATENT-APPL-SN-358089 ..... 13 p2039 N84-23233*
US-PATENT-APPL-SN-358398 ..... 13 p1995 N84-22944*
US-PATENT-APPL-SN-359626 ..... 18 p2839 N84-28018*
US-PATENT-APPL-SN-361215 ..... 05 p0658 N84-14323*
US-PATENT-APPL-SN-361216 ..... 18 p2838 N84-28016*
US-PATENT-APPL-SN-361711 ..... 07 p0966 N84-16262*
US-PATENT-APPL-SN-362813 ..... 22 p3572 N84-32618
US-PATENT-APPL-SN-363349 ..... 23 p3696 N84-33421
US-PATENT-APPL-SN-364072 ..... 18 p2928 N84-28565*
US-PATENT-APPL-SN-364094 ..... 18 p2848 N84-28083*
US-PATENT-APPL-SN-364126 ..... 13 p1994 N84-22943*
US-PATENT-APPL-SN-366025 ..... 13 p1961 N84-22744*
US-PATENT-APPL-SN-366103 ..... 24 p3966 N84-35112* #
US-PATENT-APPL-SN-367187 ..... 05 p0629 N84-14132*
US-PATENT-APPL-SN-368187 ..... 02 p0269 N84-11758*
US-PATENT-APPL-SN-368188 ..... 23 p3734 N84-33663*
US-PATENT-APPL-SN-368189 ..... 13 p1938 N84-22605*
US-PATENT-APPL-SN-370233 ..... 22 p3544 N84-32434
US-PATENT-APPL-SN-370234 ..... 24 p3896 N84-34671 #
US-PATENT-APPL-SN-371351 ..... 24 p3966 N84-35113*
US-PATENT-APPL-SN-371352 ..... 02 p0265 N84-11744*
US-PATENT-APPL-SN-372279 ..... 18 p2839 N84-28019*
US-PATENT-APPL-SN-372870-82 ..... 24 p3853 N84-34436
US-PATENT-APPL-SN-373770 ..... 24 p3901 N84-34705*
US-PATENT-APPL-SN-373771 ..... 13 p1993 N84-22934*
US-PATENT-APPL-SN-373839 ..... 13 p1985 N84-22887*
US-PATENT-APPL-SN-374207 ..... 24 p3893 N84-34654
US-PATENT-APPL-SN-376306 ..... 03 p0348 N84-12262*
US-PATENT-APPL-SN-376891 ..... 24 p3911 N84-34768
US-PATENT-APPL-SN-377891 ..... 24 p3936 N84-34913*
US-PATENT-APPL-SN-378533 ..... 02 p0226 N84-11497*
US-PATENT-APPL-SN-378535 ..... 13 p2042 N84-23248*
US-PATENT-APPL-SN-379602 ..... 13 p2007 N84-23018*
US-PATENT-APPL-SN-379806 ..... 23 p3750 N84-33770
US-PATENT-APPL-SN-379807 ..... 22 p3580 N84-32672
US-PATENT-APPL-SN-380451 ..... 22 p3596 N84-32777
US-PATENT-APPL-SN-383063 ..... 03 p0383 N84-12493*
US-PATENT-APPL-SN-383068 ..... 24 p3916 N84-34792*
US-PATENT-APPL-SN-383083 ..... 07 p0995 N84-16453*
US-PATENT-APPL-SN-383384 ..... 18 p2795 N84-27733*
US-PATENT-APPL-SN-386488 ..... 24 p3902 N84-34707

US-PATENT-APPL-SN-387726 ..... 18 p2848 N84-28084*
US-PATENT-APPL-SN-388356 ..... 24 p3887 N84-34615
US-PATENT-APPL-SN-389191 ..... 22 p3581 N84-32575
US-PATENT-APPL-SN-390458-82 ..... 24 p3966 N84-35114
US-PATENT-APPL-SN-392092 ..... 18 p2894 N84-28361*
US-PATENT-APPL-SN-392096 ..... 02 p0173 N84-11136*
US-PATENT-APPL-SN-392103 ..... 18 p2867 N84-28204*
US-PATENT-APPL-SN-393265 ..... 23 p3735 N84-33665
US-PATENT-APPL-SN-393581 ..... 13 p2022 N84-23113*
US-PATENT-APPL-SN-393586 ..... 18 p2915 N84-28484*
US-PATENT-APPL-SN-393588 ..... 07 p0969 N84-16276*
US-PATENT-APPL-SN-395557 ..... 24 p3963 N84-35094
US-PATENT-APPL-SN-396131 ..... 23 p3735 N84-33667
US-PATENT-APPL-SN-401163 ..... 22 p3536 N84-32388
US-PATENT-APPL-SN-401288 ..... 18 p2848 N84-28081*
US-PATENT-APPL-SN-403378 ..... 23 p3716 N84-33555*
US-PATENT-APPL-SN-404809 ..... 18 p2817 N84-27885*
US-PATENT-APPL-SN-409678 ..... 18 p2797 N84-27749*
US-PATENT-APPL-SN-409679 ..... 13 p1985 N84-22884*
US-PATENT-APPL-SN-412039 ..... 24 p3855 N84-34443*
US-PATENT-APPL-SN-412466 ..... 22 p3534 N84-32373 #
US-PATENT-APPL-SN-413296 ..... 22 p3542 N84-32421
US-PATENT-APPL-SN-414106 ..... 07 p1050 N84-16803*
US-PATENT-APPL-SN-414107 ..... 13 p1993 N84-22932*
US-PATENT-APPL-SN-415880 ..... 18 p2817 N84-27884*
US-PATENT-APPL-SN-416115 ..... 22 p3558 N84-32529
US-PATENT-APPL-SN-416117 ..... 24 p3852 N84-34433
US-PATENT-APPL-SN-416137 ..... 13 p1938 N84-22601*
US-PATENT-APPL-SN-416138 ..... 18 p2802 N84-27784*
US-PATENT-APPL-SN-416139 ..... 18 p2808 N84-27829*
US-PATENT-APPL-SN-425201 ..... 06 p0829 N84-15395* #
US-PATENT-APPL-SN-425203 ..... 13 p1992 N84-22930*
US-PATENT-APPL-SN-429939 ..... 22 p3545 N84-32445
US-PATENT-APPL-SN-431448 ..... 13 p1997 N84-22957*
US-PATENT-APPL-SN-431886 ..... 18 p2803 N84-27787*
US-PATENT-APPL-SN-431977 ..... 22 p3580 N84-32671
US-PATENT-APPL-SN-432057 ..... 05 p0673 N84-14423*
US-PATENT-APPL-SN-433196 ..... 13 p2007 N84-23019*
US-PATENT-APPL-SN-433598 ..... 13 p1962 N84-22747*
US-PATENT-APPL-SN-434084 ..... 18 p2831 N84-27974*
US-PATENT-APPL-SN-434672 ..... 05 p0678 N84-14461*
US-PATENT-APPL-SN-435511 ..... 18 p2817 N84-27886*
US-PATENT-APPL-SN-441897 ..... 23 p3749 N84-33768*
US-PATENT-APPL-SN-441899 ..... 05 p0657 N84-14322*
US-PATENT-APPL-SN-443828 ..... 22 p3661 N84-33208
US-PATENT-APPL-SN-444006 ..... 22 p3596 N84-32776
US-PATENT-APPL-SN-444124 ..... 13 p2019 N84-23095*
US-PATENT-APPL-SN-444149 ..... 18 p2883 N84-28292*
US-PATENT-APPL-SN-444150 ..... 13 p1993 N84-22933*
US-PATENT-APPL-SN-447371 ..... 13 p1962 N84-22746*
US-PATENT-APPL-SN-449921 ..... 22 p3600 N84-32799
US-PATENT-APPL-SN-450166 ..... 18 p2832 N84-27975*
US-PATENT-APPL-SN-450319 ..... 23 p3734 N84-33661*
US-PATENT-APPL-SN-452464 ..... 02 p0187 N84-11213*
US-PATENT-APPL-SN-452466 ..... 23 p3691 N84-33394*
US-PATENT-APPL-SN-456460 ..... 18 p2813 N84-27855*
US-PATENT-APPL-SN-460509 ..... 23 p3756 N84-33807*
US-PATENT-APPL-SN-465214 ..... 23 p3735 N84-33666
US-PATENT-APPL-SN-465228 ..... 22 p3597 N84-32778
US-PATENT-APPL-SN-465363 ..... 18 p2899 N84-28389*
US-PATENT-APPL-SN-465367 ..... 13 p1962 N84-22748*
US-PATENT-APPL-SN-469866 ..... 13 p1962 N84-22749*
US-PATENT-APPL-SN-473180 ..... 20 p3198 N84-30308 #
US-PATENT-APPL-SN-476244 ..... 13 p1985 N84-22685*
US-PATENT-APPL-SN-481086 ..... 23 p3734 N84-33660*
US-PATENT-APPL-SN-481106 ..... 24 p3856 N84-34448*
US-PATENT-APPL-SN-489692 ..... 13 p2007 N84-23020* #
US-PATENT-APPL-SN-491125 ..... 13 p1962 N84-22750*
US-PATENT-APPL-SN-491134 ..... 20 p3186 N84-30242 #
US-PATENT-APPL-SN-491639 ..... 20 p3163 N84-30086 #
US-PATENT-APPL-SN-493866 ..... 18 p2928 N84-28568*
US-PATENT-APPL-SN-494484 ..... 20 p3146 N84-29979 #
US-PATENT-APPL-SN-494485 ..... 23 p3831 N84-34298 #
US-PATENT-APPL-SN-494487 ..... 20 p3150 N84-29999 #
US-PATENT-APPL-SN-495381 ..... 13 p1953 N84-22695*
US-PATENT-APPL-SN-495386 ..... 20 p3303 N84-30977 #
US-PATENT-APPL-SN-495888 ..... 20 p3190 N84-30263 #
US-PATENT-APPL-SN-498999 ..... 20 p3163 N84-30090 #
US-PATENT-APPL-SN-500102 ..... 20 p3155 N84-30037 #
US-PATENT-APPL-SN-500105 ..... 20 p3298 N84-30942 #
US-PATENT-APPL-SN-500717 ..... 21 p3406 N84-31604 #
US-PATENT-APPL-SN-501060 ..... 18 p2916 N84-28491*
US-PATENT-APPL-SN-501312 ..... 20 p3180 N84-30204 #
US-PATENT-APPL-SN-501313 ..... 20 p3190 N84-30264 #
US-PATENT-APPL-SN-503128 ..... 20 p3163 N84-30085 #
US-PATENT-APPL-SN-503373 ..... 20 p3180 N84-30201 #
US-PATENT-APPL-SN-503913 ..... 19 p3105 N84-29725 #
US-PATENT-APPL-SN-504354 ..... 22 p3615 N84-32908
US-PATENT-APPL-SN-504905 ..... 20 p3294 N84-30916 #
US-PATENT-APPL-SN-505011 ..... 20 p3197 N84-30307 #
US-PATENT-APPL-SN-507188 ..... 20 p3190 N84-30267 #
US-PATENT-APPL-SN-507189 ..... 23 p3761 N84-33839 #
US-PATENT-APPL-SN-508649 ..... 19 p3017 N84-29126 #
US-PATENT-APPL-SN-509076 ..... 21 p3392 N84-31530 #
US-PATENT-APPL-SN-509554 ..... 21 p3406 N84-31602 #
US-PATENT-APPL-SN-509555 ..... 20 p3300 N84-30959 #
US-PATENT-APPL-SN-509758 ..... 20 p3189 N84-30261 #
US-PATENT-APPL-SN-510136 ..... 23 p3700 N84-33450*
US-PATENT-APPL-SN-511351 ..... 22 p3561 N84-32551
US-PATENT-APPL-SN-512059 ..... 21 p3393 N84-31529 #
US-PATENT-APPL-SN-512795 ..... 13 p1981 N84-22745*
US-PATENT-APPL-SN-512847 ..... 22 p3661 N84-33209
US-PATENT-APPL-SN-513521 ..... 21 p3410 N84-31625 #
US-PATENT-APPL-SN-513523 ..... 20 p3181 N84-30205 #
US-PATENT-APPL-SN-513557 ..... 20 p3190 N84-30266 #
US-PATENT-APPL-SN-516013 ..... 19 p3100 N84-29691 #
US-PATENT-APPL-SN-517474 ..... 20 p3156 N84-30039 #
US-PATENT-APPL-SN-517476 ..... 20 p3295 N84-30918 #
US-PATENT-APPL-SN-517477 ..... 20 p3156 N84-30044 #
US-PATENT-APPL-SN-517531 ..... 21 p3374 N84-31413 #
US-PATENT-APPL-SN-517536 ..... 20 p3156 N84-30040 #
US-PATENT-APPL-SN-518243 ..... 20 p3203 N84-30347 #
US-PATENT-APPL-SN-519660 ..... 13 p1939 N84-22611* #
US-PATENT-APPL-SN-519941 ..... 20 p3156 N84-30038 #
US-PATENT-APPL-SN-521497 ..... 20 p3309 N84-31019 #
US-PATENT-APPL-SN-522282 ..... 21 p3406 N84-31603 #
US-PATENT-APPL-SN-522629 ..... 03 p0356 N84-12313* #
US-PATENT-APPL-SN-523556 ..... 20 p3156 N84-30041 #
US-PATENT-APPL-SN-523559 ..... 13 p2042 N84-23251* #
US-PATENT-APPL-SN-523990 ..... 21 p3393 N84-31531 #
US-PATENT-APPL-SN-523991 ..... 11 p1657 N84-20808* #
US-PATENT-APPL-SN-526741 ..... 03 p0338 N84-12193* #
US-PATENT-APPL-SN-526765 ..... 20 p3203 N84-30345 #
US-PATENT-APPL-SN-526767 ..... 20 p3186 N84-30243 #
US-PATENT-APPL-SN-526770 ..... 03 p0376 N84-12448* #
US-PATENT-APPL-SN-526278 ..... 20 p3285 N84-30856 #
US-PATENT-APPL-SN-528285 ..... 20 p3193 N84-30282 #
US-PATENT-APPL-SN-528509 ..... 20 p3193 N84-30281 #
US-PATENT-APPL-SN-528905 ..... 22 p3605 N84-32835 #
US-PATENT-APPL-SN-531794 ..... 19 p3105 N84-29724 #
US-PATENT-APPL-SN-532430 ..... 21 p3434 N84-31787 #
US-PATENT-APPL-SN-534477 ..... 19 p3000 N84-29012 #
US-PATENT-APPL-SN-535979 ..... 20 p3190 N84-30262 #
US-PATENT-APPL-SN-537614 ..... 02 p0212 N84-11389* #
US-PATENT-APPL-SN-537615 ..... 03 p0376 N84-12447* #
US-PATENT-APPL-SN-537616 ..... 03 p0352 N84-12269* #
US-PATENT-APPL-SN-537752 ..... 19 p3105 N84-29726 #
US-PATENT-APPL-SN-537757 ..... 02 p0269 N84-11761* #
US-PATENT-APPL-SN-538059 ..... 21 p3392 N84-31528 #
US-PATENT-APPL-SN-538063 ..... 02 p0229 N84-11501* #
US-PATENT-APPL-SN-538889 ..... 20 p3196 N84-30295 #
US-PATENT-APPL-SN-539011 ..... 20 p3285 N84-30857 #
US-PATENT-APPL-SN-539013 ..... 20 p3291 N84-30695 #
US-PATENT-APPL-SN-539230 ..... 06 p0795 N84-15180* #
US-PATENT-APPL-SN-539352 ..... 22 p3601 N84-32811 #
US-PATENT-APPL-SN-539366 ..... 20 p3150 N84-30000 #
US-PATENT-APPL-SN-539369 ..... 20 p3190 N84-30265 #
US-PATENT-APPL-SN-541176 ..... 23 p3743 N84-33730 #
US-PATENT-APPL-SN-541178 ..... 23 p3744 N84-33731 #
US-PATENT-APPL-SN-541184 ..... 23 p3743 N84-33727 #
US-PATENT-APPL-SN-541185 ..... 23 p3743 N84-33729 #
US-PATENT-APPL-SN-541187 ..... 23 p3727 N84-33617 #
US-PATENT-APPL-SN-541196 ..... 22 p3545 N84-32442 #
US-PATENT-APPL-SN-541213 ..... 23 p3743 N84-33728 #
US-PATENT-APPL-SN-542232 ..... 03 p0378 N84-12463* #
US-PATENT-APPL-SN-542557 ..... 22 p3616 N84-32910* #
US-PATENT-APPL-SN-542957 ..... 23 p3761 N84-33841 #
US-PATENT-APPL-SN-542968 ..... 22 p3602 N84-32819 #
US-PATENT-APPL-SN-543686 ..... 23 p3725 N84-33606 #
US-PATENT-APPL-SN-544930 ..... 24 p3899 N84-34690 #
US-PATENT-APPL-SN-545411 ..... 23 p3751 N84-33780 #
US-PATENT-APPL-SN-547171 ..... 03 p0403 N84-12635* #
US-PATENT-APPL-SN-547175 ..... 03 p0451 N84-12968* #
US-PATENT-APPL-SN-547176 ..... 19 p3026 N84-29191* #
US-PATENT-APPL-SN-547273 ..... 19 p3105 N84-29727 #
US-PATENT-APPL-SN-547279 ..... 22 p3654 N84-33163 #
US-PATENT-APPL-SN-547682 ..... 23 p3719 N84-33574 #
US-PATENT-APPL-SN-548277 ..... 23 p3752 N84-33783 #
US-PATENT-APPL-SN-548278 ..... 23 p3751 N84-33782 #
US-PATENT-APPL-SN-548280 ..... 23 p3757 N84-33815 #
US-PATENT-APPL-SN-548582 ..... 02 p0199 N84-11297* #
US-PATENT-APPL-SN-548583 ..... 11 p1636 N84-20700* #
US-PATENT-APPL-SN-548584 ..... 24 p3878 N84-34571*
US-PATENT-APPL-SN-548811 ..... 23 p3755 N84-33804 #
US-PATENT-APPL-SN-549379 ..... 22 p3590 N84-32737 #
US-PATENT-APPL-SN-549380 ..... 23 p3715 N84-33551 #
US-PATENT-APPL-SN-549382 ..... 22 p3590 N84-32739 #
US-PATENT-APPL-SN-550286 ..... 19 p3111 N84-29769 #
US-PATENT-APPL-SN-550681 ..... 03 p0320 N84-12092* #
US-PATENT-APPL-SN-550697 ..... 22 p3561 N84-32549 #
US-PATENT-APPL-SN-550701 ..... 23 p3823 N84-34243 #
US-PATENT-APPL-SN-551536 ..... 03 p0330 N84-12151* #
US-PATENT-APPL-SN-553339 ..... 07 p0979 N84-16341* #
US-PATENT-APPL-SN-554413 ..... 23 p3743 N84-33726 #
US-PATENT-APPL-SN-556481 ..... 06 p0917 N84-15960* #
US-PATENT-APPL-SN-556512 ..... 07 p0964 N84-16250* #
US-PATENT-APPL-SN-556513 ..... 06 p0849 N84-15536* #
US-PATENT-APPL-SN-556514 ..... 06 p0849 N84-15537* #
US-PATENT-APPL-SN-556874 ..... 22 p3618 N84-32924 #
US-PATENT-APPL-SN-557517 ..... 23 p3751 N84-33781 #
US-PATENT-APPL-SN-559558 ..... 24 p3881 N84-34586 #
US-PATENT-APPL-SN-559612 ..... 19 p2982 N84-28897 #

US-PATENT-APPL-SN-559988 ..... 07 p1070 N84-16949* #
US-PATENT-APPL-SN-560035 ..... 06 p0798 N84-15203* #
US-PATENT-APPL-SN-561369 ..... 23 p3749 N84-33766*
US-PATENT-APPL-SN-561429 ..... 13 p1953 N84-22699* #
US-PATENT-APPL-SN-561431 ..... 13 p1953 N84-22698* #
US-PATENT-APPL-SN-561432 ..... 06 p0796 N84-15183* #
US-PATENT-APPL-SN-561433 ..... 07 p1070 N84-16948* #
US-PATENT-APPL-SN-561434 ..... 13 p1953 N84-22701* #
US-PATENT-APPL-SN-561435 ..... 13 p1953 N84-22700* #
US-PATENT-APPL-SN-561702 ..... 07 p0978 N84-16340* #
US-PATENT-APPL-SN-562147 ..... 23 p3823 N84-34244 #
US-PATENT-APPL-SN-562243 ..... 23 p3725 N84-33607 #
US-PATENT-APPL-SN-562336 ..... 19 p3018 N84-29131 #
US-PATENT-APPL-SN-563890 ..... 13 p1993 N84-22935* #
US-PATENT-APPL-SN-564103 ..... 23 p3725 N84-33605 #
US-PATENT-APPL-SN-564108 ..... 23 p3719 N84-33575 #
US-PATENT-APPL-SN-564127 ..... 22 p3606 N84-32846 #
US-PATENT-APPL-SN-565481 ..... 07 p0960 N84-16221* #
US-PATENT-APPL-SN-565482 ..... 07 p0986 N84-16259* #
US-PATENT-APPL-SN-566080 ..... 19 p2995 N84-28976 #
US-PATENT-APPL-SN-566130 ..... 19 p3112 N84-29770 #
US-PATENT-APPL-SN-566621 ..... 23 p3720 N84-33582 #
US-PATENT-APPL-SN-566757 ..... 23 p3744 N84-33732 #
US-PATENT-APPL-SN-566761 ..... 22 p3590 N84-32738 #
US-PATENT-APPL-SN-566849 ..... 22 p3590 N84-32740 #
US-PATENT-APPL-SN-566924 ..... 23 p3755 N84-33803 #
US-PATENT-APPL-SN-569370 ..... 13 p2006 N84-23012* #
US-PATENT-APPL-SN-569371 ..... 11 p1624 N84-20628* #
US-PATENT-APPL-SN-569372 ..... 12 p1912 N84-22457* #
US-PATENT-APPL-SN-569373 ..... 11 p1637 N84-20702* #
US-PATENT-APPL-SN-569536 ..... 22 p3558 N84-32532* #
US-PATENT-APPL-SN-571414 ..... 19 p3017 N84-29128 #
US-PATENT-APPL-SN-571613 ..... 07 p1089 N84-17084* #
US-PATENT-APPL-SN-571614 ..... 07 p1007 N84-16531* #
US-PATENT-APPL-SN-571615 ..... 07 p1075 N84-16986* #
US-PATENT-APPL-SN-571616 ..... 13 p1937 N84-22596* #
US-PATENT-APPL-SN-571617 ..... 07 p0967 N84-16266* #
US-PATENT-APPL-SN-573162 ..... 11 p1664 N84-20859* #
US-PATENT-APPL-SN-573752 ..... 19 p3029 N84-29214 #
US-PATENT-APPL-SN-573904 ..... 19 p3051 N84-29361 #
US-PATENT-APPL-SN-574434 ..... 19 p3018 N84-29133 #
US-PATENT-APPL-SN-576308 ..... 11 p1602 N84-20495* #
US-PATENT-APPL-SN-578387 ..... 11 p1607 N84-20522* #
US-PATENT-APPL-SN-578388 ..... 22 p3535 N84-32383* #
US-PATENT-APPL-SN-578390 ..... 11 p1673 N84-20917* #
US-PATENT-APPL-SN-580397 ..... 11 p1664 N84-20860* #
US-PATENT-APPL-SN-580419 ..... 11 p1651 N84-20782* #
US-PATENT-APPL-SN-580573 ..... 11 p1673 N84-20918* #
US-PATENT-APPL-SN-580574 ..... 13 p1939 N84-22610* #
US-PATENT-APPL-SN-580921 ..... 19 p3102 N84-29704 #
US-PATENT-APPL-SN-580979 ..... 19 p3027 N84-29197 #
US-PATENT-APPL-SN-581398 ..... 19 p3027 N84-29196 #
US-PATENT-APPL-SN-581831 ..... 20 p3199 N84-30319 #
US-PATENT-APPL-SN-582492 ..... 11 p1694 N84-21053* #
US-PATENT-APPL-SN-582493 ..... 11 p1627 N84-20649* #
US-PATENT-APPL-SN-582494 ..... 15 p2339 N84-25037* #
US-PATENT-APPL-SN-582495 ..... 15 p2361 N84-25164* #
US-PATENT-APPL-SN-582496 ..... 19 p3071 N84-29484 #
US-PATENT-APPL-SN-582643 ..... 13 p2019 N84-23093* #
US-PATENT-APPL-SN-583026 ..... 22 p3601 N84-32813 #
US-PATENT-APPL-SN-583536 ..... 19 p3027 N84-29198 #
US-PATENT-APPL-SN-583549 ..... 19 p2962 N84-28771 #
US-PATENT-APPL-SN-583560 ..... 19 p3002 N84-29027 #
US-PATENT-APPL-SN-583562 ..... 19 p3054 N84-29383 #
US-PATENT-APPL-SN-586955 ..... 19 p3018 N84-29132 #
US-PATENT-APPL-SN-587432 ..... 22 p3587 N84-32715 #
US-PATENT-APPL-SN-587749 ..... 15 p2385 N84-25306* #
US-PATENT-APPL-SN-588036 ..... 13 p1939 N84-22612* #
US-PATENT-APPL-SN-588039 ..... 22 p3542 N84-32424* #
US-PATENT-APPL-SN-588164 ..... 15 p2305 N84-24830* #
US-PATENT-APPL-SN-588488 ..... 19 p3027 N84-29199 #
US-PATENT-APPL-SN-589913 ..... 19 p3018 N84-29134 #
US-PATENT-APPL-SN-590921 ..... 11 p1728 N84-21274* #
US-PATENT-APPL-SN-590923 ..... 11 p1656 N84-20804* #
US-PATENT-APPL-SN-590925 ..... 11 p1632 N84-20670* #
US-PATENT-APPL-SN-591089 ..... 13 p1953 N84-22696* #
US-PATENT-APPL-SN-592033 ..... 22 p3560 N84-32544 #
US-PATENT-APPL-SN-592034 ..... 22 p3587 N84-32718 #
US-PATENT-APPL-SN-593603 ..... 22 p3664 N84-33229 #
US-PATENT-APPL-SN-593759 ..... 22 p3601 N84-32810 #
US-PATENT-APPL-SN-594134 ..... 16 p2557 N84-26400* #
US-PATENT-APPL-SN-595153 ..... 22 p3555 N84-32512 #
US-PATENT-APPL-SN-595876 ..... 19 p3079 N84-29537 #
US-PATENT-APPL-SN-596471 ..... 22 p3657 N84-33187 #
US-PATENT-APPL-SN-596778 ..... 19 p3071 N84-29483 #
US-PATENT-APPL-SN-596959 ..... 13 p1939 N84-22609* #
US-PATENT-APPL-SN-596960 ..... 13 p1932 N84-22562* #
US-PATENT-APPL-SN-596966 ..... 19 p3104 N84-29723 #
US-PATENT-APPL-SN-597326 ..... 19 p3018 N84-29130 #
US-PATENT-APPL-SN-598751 ..... 21 p3387 N84-31495 #
US-PATENT-APPL-SN-598780 ..... 22 p3605 N84-32836 #
US-PATENT-APPL-SN-598949 ..... 22 p3587 N84-32716 #
US-PATENT-APPL-SN-599088 ..... 22 p3599 N84-32795 #
US-PATENT-APPL-SN-599126 ..... 13 p1953 N84-22697* #
US-PATENT-APPL-SN-600241 ..... 23 p3611 N84-34166 #
US-PATENT-APPL-SN-601130 ..... 22 p3584 N84-32569* #
US-PATENT-APPL-SN-601198 ..... 22 p3577 N84-32660 #
US-PATENT-APPL-SN-601514 ..... 23 p3756 N84-33812 #
US-PATENT-APPL-SN-601515 ..... 24 p3899 N84-34689 #
US-PATENT-APPL-SN-601520 ..... 23 p3751 N84-33777 #
US-PATENT-APPL-SN-601873 ..... 23 p3714 N84-33546 #
US-PATENT-APPL-SN-601874 ..... 23 p3714 N84-33545 #
US-PATENT-APPL-SN-602049 ..... 15 p2335 N84-25015* #
US-PATENT-APPL-SN-602050 ..... 13 p1932 N84-22563* #
US-PATENT-APPL-SN-602105 ..... 15 p2404 N84-25431* #
US-PATENT-APPL-SN-602256 ..... 19 p3000 N84-29011 #
US-PATENT-APPL-SN-603253 ..... 19 p3018 N84-29135 #
US-PATENT-APPL-SN-603373 ..... 19 p3001 N84-29017* #
US-PATENT-APPL-SN-603374 ..... 13 p1997 N84-22959* #
US-PATENT-APPL-SN-603382 ..... 19 p3017 N84-29124 #
US-PATENT-APPL-SN-603528 ..... 23 p3793 N84-34057 #
US-PATENT-APPL-SN-603795 ..... 22 p3601 N84-32812 #
US-PATENT-APPL-SN-603874 ..... 19 p3017 N84-29127 #
US-PATENT-APPL-SN-604337 ..... 15 p2300 N84-24806* #
US-PATENT-APPL-SN-604508 ..... 23 p3825 N84-34260 #
US-PATENT-APPL-SN-605456 ..... 23 p3830 N84-34291 #
US-PATENT-APPL-SN-606011 ..... 22 p3604 N84-32834 #
US-PATENT-APPL-SN-606426 ..... 15 p2335 N84-25016* #
US-PATENT-APPL-SN-606430 ..... 15 p2301 N84-24807* #
US-PATENT-APPL-SN-606431 ..... 15 p2343 N84-25063* #
US-PATENT-APPL-SN-606432 ..... 15 p2407 N84-25450* #
US-PATENT-APPL-SN-606729 ..... 21 p3373 N84-31407 #
US-PATENT-APPL-SN-607090 ..... 22 p3658 N84-33188 #
US-PATENT-APPL-SN-608741 ..... 15 p2300 N84-24805* #
US-PATENT-APPL-SN-608742 ..... 15 p2284 N84-24711* #
US-PATENT-APPL-SN-608840 ..... 23 p3791 N84-34041 #
US-PATENT-APPL-SN-610142 ..... 23 p3793 N84-34083 #
US-PATENT-APPL-SN-610460 ..... 22 p3599 N84-32794 #
US-PATENT-APPL-SN-610897 ..... 23 p3727 N84-33615 #
US-PATENT-APPL-SN-611041 ..... 22 p3537 N84-32392 #
US-PATENT-APPL-SN-611060 ..... 22 p3587 N84-32719 #
US-PATENT-APPL-SN-611292 ..... 19 p3017 N84-29123 #
US-PATENT-APPL-SN-611652 ..... 22 p3537 N84-32391 #
US-PATENT-APPL-SN-612524 ..... 19 p3017 N84-29125 #
US-PATENT-APPL-SN-612990 ..... 22 p3616 N84-32911* #
US-PATENT-APPL-SN-613138 ..... 19 p2997 N84-28988* #
US-PATENT-APPL-SN-613139 ..... 19 p2996 N84-28987* #
US-PATENT-APPL-SN-613140 ..... 19 p3011 N84-29085* #
US-PATENT-APPL-SN-614190 ..... 24 p3903 N84-34713 #
US-PATENT-APPL-SN-614904 ..... 23 p3696 N84-33420 #
US-PATENT-APPL-SN-614905 ..... 23 p3698 N84-33436 #
US-PATENT-APPL-SN-615413 ..... 21 p3373 N84-31408 #
US-PATENT-APPL-SN-615502 ..... 23 p3821 N84-34233 #
US-PATENT-APPL-SN-615503 ..... 23 p3813 N84-34176 #
US-PATENT-APPL-SN-615504 ..... 22 p3657 N84-33186 #
US-PATENT-APPL-SN-615505 ..... 24 p3899 N84-34692* #
US-PATENT-APPL-SN-615506 ..... 23 p3757 N84-33813 #
US-PATENT-APPL-SN-615612 ..... 23 p3825 N84-34261 #
US-PATENT-APPL-SN-616002 ..... 22 p3592 N84-32748* #
US-PATENT-APPL-SN-616091 ..... 19 p3017 N84-29129 #
US-PATENT-APPL-SN-616325 ..... 23 p3742 N84-33722 #
US-PATENT-APPL-SN-616454 ..... 23 p3712 N84-33526 #
US-PATENT-APPL-SN-616632 ..... 21 p3413 N84-31643 #
US-PATENT-APPL-SN-616999 ..... 22 p3562 N84-32555 #
US-PATENT-APPL-SN-617445 ..... 23 p3718 N84-33570 #
US-PATENT-APPL-SN-617447 ..... 23 p3718 N84-33571 #
US-PATENT-APPL-SN-617449 ..... 23 p3742 N84-33724 #
US-PATENT-APPL-SN-617456 ..... 23 p3751 N84-33778 #
US-PATENT-APPL-SN-617666 ..... 23 p3742 N84-33723 #
US-PATENT-APPL-SN-617871 ..... 22 p3558 N84-32530* #
US-PATENT-APPL-SN-620301 ..... 21 p3413 N84-31644 #
US-PATENT-APPL-SN-623883 ..... 21 p3406 N84-31601 #
US-PATENT-APPL-SN-624896 ..... 22 p3587 N84-32717 #
US-PATENT-APPL-SN-625077 ..... 19 p3011 N84-29084* #
US-PATENT-APPL-SN-628091 ..... 24 p3910 N84-34767 #
US-PATENT-APPL-SN-628553 ..... 24 p3891 N84-34639 #
US-PATENT-APPL-SN-628866 ..... 19 p2998 N84-28986* #
US-PATENT-APPL-SN-633178 ..... 22 p3546 N84-32447* #
US-PATENT-APPL-SN-633179 ..... 22 p3598 N84-32786* #
US-PATENT-APPL-SN-633180 ..... 22 p3538 N84-32398* #
US-PATENT-APPL-SN-633363 ..... 22 p3616 N84-32912* #
US-PATENT-APPL-SN-636459 ..... 22 p3616 N84-32913* #
US-PATENT-APPL-SN-636463 ..... 22 p3542 N84-32425* #
US-PATENT-APPL-SN-636465 ..... 22 p3603 N84-32823* #
US-PATENT-APPL-SN-638541 ..... 22 p3597 N84-32782* #
US-PATENT-APPL-SN-638584 ..... 22 p3581 N84-32680* #
US-PATENT-APPL-SN-638585 ..... 22 p3656 N84-33179* #
US-PATENT-APPL-SN-638586 ..... 22 p3572 N84-32620* #
US-PATENT-APPL-SN-639755 ..... 24 p3903 N84-34714 #
US-PATENT-APPL-SN-640712 ..... 23 p3724 N84-33595* #
US-PATENT-APPL-SN-641146 ..... 22 p3662 N84-33211* #
US-PATENT-APPL-SN-642310 ..... 22 p3616 N84-32909* #
US-PATENT-APPL-SN-642602 ..... 22 p3633 N84-33021* #
US-PATENT-APPL-SN-643523 ..... 22 p3598 N84-32787* #
US-PATENT-APPL-SN-649328 ..... 24 p3887 N84-34616* #
US-PATENT-APPL-SN-649329 ..... 23 p3692 N84-33400* #
US-PATENT-APPL-SN-696620 ..... 22 p3580 N84-32674
US-PATENT-APPL-SN-737975 ..... 18 p2828 N84-27952*
US-PATENT-APPL-SN-753971 ..... 05 p0742 N84-14873*
US-PATENT-APPL-SN-784186 ..... 24 p3963 N84-35093
US-PATENT-APPL-SN-969757 ..... 07 p0966 N84-16262*

US-PATENT-CLASS-2-161R 13 p2022 N84-23113*
US-PATENT-CLASS-2-161R 18 p2915 N84-28484*
US-PATENT-CLASS-2-164 ..... 18 p2915 N84-28484*
US-PATENT-CLASS-2-167 ..... 13 p2022 N84-23113*
US-PATENT-CLASS-2-167 ..... 18 p2915 N84-28484*
US-PATENT-CLASS-3-1.1 ..... 02 p0293 N84-11921*
US-PATENT-CLASS-4-498 ..... 24 p3916 N84-34792*
US-PATENT-CLASS-5-459 ..... 23 p3691 N84-33394*
US-PATENT-CLASS-24-560 ..... 18 p2899 N84-28388*
US-PATENT-CLASS-29-423 ..... 18 p2899 N84-28389*
US-PATENT-CLASS-29-451 ..... 18 p2899 N84-28389*
US-PATENT-CLASS-29-623.5 ..... 13 p1960 N84-22734*
US-PATENT-CLASS-29-623.5 ..... 18 p2868 N84-28205*
US-PATENT-CLASS-29-825 ..... 18 p2868 N84-28205*
US-PATENT-CLASS-29-825 ..... 23 p3735 N84-33666
US-PATENT-CLASS-30-180 ..... 18 p2848 N84-28085*
US-PATENT-CLASS-30-188 ..... 18 p2848 N84-28085*
US-PATENT-CLASS-30-228 ..... 18 p2848 N84-28085*
US-PATENT-CLASS-30-249 ..... 18 p2848 N84-28085*
US-PATENT-CLASS-30-272R 18 p2848 N84-28085*
US-PATENT-CLASS-33-DIG.3 ..... 05 p0629 N84-14132*
US-PATENT-CLASS-33-169F 18 p2839 N84-28018*
US-PATENT-CLASS-33-293 ..... 07 p1006 N84-16523*
US-PATENT-CLASS-33-348 ..... 05 p0629 N84-14132*
US-PATENT-CLASS-33-356 ..... 05 p0629 N84-14132*
US-PATENT-CLASS-33-361 ..... 05 p0629 N84-14132*
US-PATENT-CLASS-47-58 ..... 03 p0406 N84-12654*
US-PATENT-CLASS-52-404 ..... 13 p1938 N84-22601*
US-PATENT-CLASS-52-506 ..... 13 p1938 N84-22601*
US-PATENT-CLASS-52-806 ..... 02 p0187 N84-11214*
US-PATENT-CLASS-52-808 ..... 02 p0187 N84-11214*
US-PATENT-CLASS-52-814 ..... 23 p3700 N84-33450*
US-PATENT-CLASS-55-DIG.25 ..... 08 p1161 N84-17555*
US-PATENT-CLASS-55-DIG.30 ..... 08 p1161 N84-17555*
US-PATENT-CLASS-55-2 ..... 08 p1161 N84-17555*
US-PATENT-CLASS-55-6 ..... 08 p1161 N84-17555*
US-PATENT-CLASS-55-12 ..... 08 p1161 N84-17555*
US-PATENT-CLASS-55-96 ..... 08 p1161 N84-17555*
US-PATENT-CLASS-55-105 ..... 08 p1161 N84-17555*
US-PATENT-CLASS-55-126 ..... 08 p1161 N84-17555*
US-PATENT-CLASS-55-131 ..... 08 p1161 N84-17555*
US-PATENT-CLASS-55-138 ..... 08 p1161 N84-17555*
US-PATENT-CLASS-55-139 ..... 08 p1161 N84-17555*
US-PATENT-CLASS-55-145 ..... 08 p1161 N84-17555*
US-PATENT-CLASS-55-270 ..... 08 p1161 N84-17555*
US-PATENT-CLASS-55-283 ..... 08 p1161 N84-17555*
US-PATENT-CLASS-55-291 ..... 08 p1161 N84-17555*
US-PATENT-CLASS-55-466 ..... 08 p1161 N84-17555*
US-PATENT-CLASS-60-39.29 ..... 23 p3694 N84-33410*
US-PATENT-CLASS-60-39.83 ..... 23 p3694 N84-33410*
US-PATENT-CLASS-60-207 ..... 22 p3561 N84-32551
US-PATENT-CLASS-60-275 ..... 08 p1161 N84-17555*
US-PATENT-CLASS-60-303 ..... 08 p1161 N84-17555*
US-PATENT-CLASS-60-303 ..... 23 p3756 N84-33808*
US-PATENT-CLASS-60-311 ..... 08 p1161 N84-17555*
US-PATENT-CLASS-60-606 ..... 23 p3756 N84-33808*
US-PATENT-CLASS-60-641.12 ..... 13 p2007 N84-23018*
US-PATENT-CLASS-60-698 ..... 13 p2007 N84-23018*
US-PATENT-CLASS-60-716 ..... 13 p2007 N84-23018*
US-PATENT-CLASS-60-721 ..... 13 p2039 N84-23233*
US-PATENT-CLASS-60-730 ..... 13 p1997 N84-22958*
US-PATENT-CLASS-60-736 ..... 13 p1997 N84-22958*
US-PATENT-CLASS-60-757 ..... 15 p2260 N84-24577*
US-PATENT-CLASS-62-DIG.1 ..... 13 p1988 N84-22903*
US-PATENT-CLASS-62-128 ..... 18 p2839 N84-28018*
US-PATENT-CLASS-62-264 ..... 13 p1988 N84-22903*
US-PATENT-CLASS-62-467R 13 p1988 N84-22903*
US-PATENT-CLASS-65-21.3 ..... 18 p2928 N84-28568*
US-PATENT-CLASS-65-21.4 ..... 18 p2928 N84-28568*
US-PATENT-CLASS-65-142 ..... 18 p2928 N84-28568*
US-PATENT-CLASS-65-160 ..... 18 p2928 N84-28568*
US-PATENT-CLASS-65-213 ..... 07 p1069 N84-16940*
US-PATENT-CLASS-73-1B 18 p2839 N84-28019*
US-PATENT-CLASS-73-9 ..... 07 p0961 N84-16231*
US-PATENT-CLASS-73-12 ..... 23 p3756 N84-33807*
US-PATENT-CLASS-73-32R 18 p2839 N84-28018*
US-PATENT-CLASS-73-115 ..... 13 p1931 N84-22559*
US-PATENT-CLASS-73-117.1 ..... 18 p2797 N84-27749*
US-PATENT-CLASS-73-147 ..... 13 p1993 N84-22934*
US-PATENT-CLASS-73-147 ..... 24 p3856 N84-34448*
US-PATENT-CLASS-73-150R 18 p2839 N84-28018*
US-PATENT-CLASS-73-167 ..... 07 p0961 N84-16231*
US-PATENT-CLASS-73-170R 18 p2839 N84-28018*
US-PATENT-CLASS-73-178-R 24 p3855 N84-34443*
US-PATENT-CLASS-73-178R 18 p2795 N84-27733*
US-PATENT-CLASS-73-189 ..... 18 p2883 N84-28292*
US-PATENT-CLASS-73-432R 07 p0961 N84-16231*
US-PATENT-CLASS-73-432T 02 p0293 N84-11921*
US-PATENT-CLASS-73-466 ..... 18 p2848 N84-28082*
US-PATENT-CLASS-73-505 ..... 13 p2039 N84-23233*
US-PATENT-CLASS-73-588 ..... 23 p3756 N84-33807*
US-PATENT-CLASS-73-589 ..... 13 p1993 N84-22933*
US-PATENT-CLASS-73-594 ..... 13 p1993 N84-22933*
US-PATENT-CLASS-73-596 ..... 24 p3911 N84-34768
US-PATENT-CLASS-73-620 ..... 13 p1992 N84-22928*
US-PATENT-CLASS-73-633 ..... 13 p1992 N84-22928*
US-PATENT-CLASS-73-646 ..... 03 p0375 N84-12445*
US-PATENT-CLASS-73-658 ..... 03 p0375 N84-12445*
US-PATENT-CLASS-73-714 ..... 05 p0683 N84-14491*
US-PATENT-CLASS-73-721 ..... 13 p1993 N84-22934*
US-PATENT-CLASS-73-756 ..... 13 p1993 N84-22934*
US-PATENT-CLASS-73-766 ..... 22 p3596 N84-32776
US-PATENT-CLASS-73-833 ..... 18 p2808 N84-27829*
US-PATENT-CLASS-73-856 ..... 18 p2808 N84-27829*
US-PATENT-CLASS-73-861.71 ..... 18 p2883 N84-28292*
US-PATENT-CLASS-73-862.65 ..... 18 p2838 N84-28015*
US-PATENT-CLASS-73-864.41 ..... 18 p2839 N84-28018*
US-PATENT-CLASS-74-2 ..... 24 p3853 N84-34436
US-PATENT-CLASS-74-5.5 ..... 18 p2848 N84-28082*
US-PATENT-CLASS-74-5R 22 p3596 N84-32777
US-PATENT-CLASS-74-58 ..... 13 p1992 N84-22928*
US-PATENT-CLASS-74-573R 18 p2848 N84-28082*
US-PATENT-CLASS-74-753 ..... 18 p2848 N84-28084*
US-PATENT-CLASS-74-758 ..... 18 p2848 N84-28084*
US-PATENT-CLASS-74-812 ..... 18 p2848 N84-28084*
US-PATENT-CLASS-101-395 ..... 13 p1992 N84-22930*
US-PATENT-CLASS-101-407BP 03 p0382 N84-12491*
US-PATENT-CLASS-104-DIG.4 ..... 13 p2007 N84-23019*
US-PATENT-CLASS-110-186 ..... 07 p0969 N84-16276*
US-PATENT-CLASS-110-262 ..... 07 p0969 N84-16276*
US-PATENT-CLASS-110-263 ..... 07 p0969 N84-16276*
US-PATENT-CLASS-110-265 ..... 07 p0969 N84-16276*
US-PATENT-CLASS-118-50 ..... 07 p1069 N84-16940*
US-PATENT-CLASS-118-50.1 ..... 07 p1069 N84-16940*
US-PATENT-CLASS-118-50.1 ..... 13 p1995 N84-22944*
US-PATENT-CLASS-118-57 ..... 07 p1069 N84-16940*
US-PATENT-CLASS-118-62 ..... 07 p1069 N84-16940*
US-PATENT-CLASS-118-300 ..... 07 p1069 N84-16940*
US-PATENT-CLASS-118-500 ..... 07 p1069 N84-16940*
US-PATENT-CLASS-118-624 ..... 13 p1995 N84-22944*
US-PATENT-CLASS-118-641 ..... 13 p1995 N84-22944*
US-PATENT-CLASS-126-415 ..... 24 p3916 N84-34792*
US-PATENT-CLASS-126-417 ..... 13 p1988 N84-22903*
US-PATENT-CLASS-126-418 ..... 18 p2867 N84-28204*
US-PATENT-CLASS-126-419 ..... 18 p2867 N84-28203*
US-PATENT-CLASS-126-438 ..... 18 p2867 N84-28203*
US-PATENT-CLASS-126-438 ..... 18 p2867 N84-28204*
US-PATENT-CLASS-126-440 ..... 18 p2867 N84-28204*
US-PATENT-CLASS-126-451 ..... 18 p2867 N84-28203*
US-PATENT-CLASS-128-DIG.25 ..... 02 p0265 N84-11744*
US-PATENT-CLASS-128-1A 07 p1050 N84-16803*
US-PATENT-CLASS-128-1R 02 p0265 N84-11744*
US-PATENT-CLASS-128-15R 07 p1050 N84-16803*
US-PATENT-CLASS-128-24-A 24 p3936 N84-34913*
US-PATENT-CLASS-128-38 ..... 07 p1050 N84-16803*
US-PATENT-CLASS-128-325 ..... 18 p2899 N84-28388*
US-PATENT-CLASS-128-328 ..... 24 p3936 N84-34913*
US-PATENT-CLASS-128-346 ..... 02 p0265 N84-11744*
US-PATENT-CLASS-128-346 ..... 18 p2899 N84-28388*
US-PATENT-CLASS-136-246 ..... 23 p3785 N84-34004
US-PATENT-CLASS-137-838 ..... 18 p2928 N84-28568*
US-PATENT-CLASS-138-42 ..... 05 p0698 N84-14583*
US-PATENT-CLASS-148-1.5 ..... 22 p3661 N84-33208
US-PATENT-CLASS-156-DIG.64 ..... 24 p3966 N84-35113*
US-PATENT-CLASS-156-DIG.88 ..... 24 p3966 N84-35113*
US-PATENT-CLASS-156-DIG.98 ..... 24 p3966 N84-35113*
US-PATENT-CLASS-156-71 ..... 03 p0375 N84-12443*
US-PATENT-CLASS-156-81 ..... 13 p1962 N84-22748*
US-PATENT-CLASS-156-89 ..... 13 p1962 N84-22748*
US-PATENT-CLASS-156-172 ..... 22 p3534 N84-32376
US-PATENT-CLASS-156-191 ..... 18 p2899 N84-28389*
US-PATENT-CLASS-156-215 ..... 03 p0375 N84-12443*
US-PATENT-CLASS-156-230 ..... 03 p0375 N84-12443*
US-PATENT-CLASS-156-235 ..... 03 p0375 N84-12443*
US-PATENT-CLASS-156-285 ..... 18 p2899 N84-28389*
US-PATENT-CLASS-156-289 ..... 18 p2899 N84-28389*
US-PATENT-CLASS-156-294 ..... 03 p0375 N84-12443*
US-PATENT-CLASS-156-304.3 ..... 13 p1962 N84-22748*
US-PATENT-CLASS-156-304.6 ..... 13 p1962 N84-22748*
US-PATENT-CLASS-156-382 ..... 18 p2899 N84-28389*
US-PATENT-CLASS-156-391 ..... 03 p0375 N84-12443*
US-PATENT-CLASS-156-423 ..... 03 p0375 N84-12443*
US-PATENT-CLASS-156-499 ..... 13 p1962 N84-22748*
US-PATENT-CLASS-156-540 ..... 03 p0375 N84-12443*
US-PATENT-CLASS-156-608 ..... 24 p3966 N84-35113*
US-PATENT-CLASS-156-617-SP 24 p3966 N84-35113*
US-PATENT-CLASS-156-617-V 24 p3966 N84-35113*
US-PATENT-CLASS-156-630 ..... 13 p1992 N84-22930*
US-PATENT-CLASS-156-643 ..... 13 p2019 N84-23095*
US-PATENT-CLASS-156-643 ..... 22 p3580 N84-32671
US-PATENT-CLASS-156-644 ..... 13 p2019 N84-23095*
US-PATENT-CLASS-156-654 ..... 13 p1992 N84-22930*
US-PATENT-CLASS-156-668 ..... 13 p2019 N84-23095*
US-PATENT-CLASS-156-905 ..... 13 p1992 N84-22930*
US-PATENT-CLASS-164-46 ..... 22 p3656 N84-33177
US-PATENT-CLASS-164-119 ..... 07 p0966 N84-16262*
US-PATENT-CLASS-165-DIG.6 ..... 13 p1988 N84-22903*
US-PATENT-CLASS-165-32 ..... 05 p0678 N84-14461*
US-PATENT-CLASS-165-41 ..... 05 p0678 N84-14461*
US-PATENT-CLASS-165-96 ..... 05 p0678 N84-14461*
US-PATENT-CLASS-165-135 ..... 13 p1988 N84-22903*
US-PATENT-CLASS-175-45 ..... 23 p3749 N84-33768*

US-PATENT-CLASS-180-168 ..... 23 p3750 N84-33769*
US-PATENT-CLASS-181-121 ..... 13 p1993 N84-22933*
US-PATENT-CLASS-204-DIG.3 ..... 03 p0348 N84-12262*
US-PATENT-CLASS-204-DIG.3 ..... 13 p2007 N84-23019*
US-PATENT-CLASS-204-1T ..... 24 p3966 N84-35112* #
US-PATENT-CLASS-204-15 ..... 22 p3661 N84-33209
US-PATENT-CLASS-204-37.6 ..... 24 p3966 N84-35112* #
US-PATENT-CLASS-204-56R ..... 24 p3966 N84-35112* #
US-PATENT-CLASS-204-129 ..... 03 p0348 N84-12262*
US-PATENT-CLASS-204-129 ..... 13 p2007 N84-23019*
US-PATENT-CLASS-204-192C 13 p1953 N84-22695*
US-PATENT-CLASS-204-192E 13 p2019 N84-23095*
US-PATENT-CLASS-204-192EC 13 p1985 N84-22684*
US-PATENT-CLASS-204-192R 13 p1953 N84-22695*
US-PATENT-CLASS-204-192SP 13 p1953 N84-22695*
US-PATENT-CLASS-204-242 ..... 03 p0348 N84-12262*
US-PATENT-CLASS-204-278 ..... 03 p0348 N84-12262*
US-PATENT-CLASS-204-278 ..... 13 p2007 N84-23019*
US-PATENT-CLASS-204-280 ..... 13 p2007 N84-23019*
US-PATENT-CLASS-204-290 ..... 18 p2868 N84-28205*
US-PATENT-CLASS-204-290R 03 p0348 N84-12262*
US-PATENT-CLASS-206-447 ..... 05 p0658 N84-14323*
US-PATENT-CLASS-206-582 ..... 05 p0658 N84-14323*
US-PATENT-CLASS-208-8LE 07 p0965 N84-16255*
US-PATENT-CLASS-208-8LE 13 p1955 N84-22709*
US-PATENT-CLASS-208-10 ..... 07 p0965 N84-16255*
US-PATENT-CLASS-208-10 ..... 13 p1955 N84-22709*
US-PATENT-CLASS-210-151 ..... 03 p0406 N84-12654*
US-PATENT-CLASS-210-602 ..... 03 p0406 N84-12654*
US-PATENT-CLASS-210-605 ..... 03 p0406 N84-12654*
US-PATENT-CLASS-210-617 ..... 03 p0406 N84-12654*
US-PATENT-CLASS-210-748 ..... 08 p1161 N84-17555*
US-PATENT-CLASS-219-203 ..... 23 p3723 N84-33589*
US-PATENT-CLASS-219-210 ..... 22 p3597 N84-32778
US-PATENT-CLASS-219-219 ..... 23 p3723 N84-33589*
US-PATENT-CLASS-219-522 ..... 23 p3723 N84-33589*
US-PATENT-CLASS-219-541 ..... 23 p3723 N84-33589*
US-PATENT-CLASS-219-543 ..... 23 p3723 N84-33589*
US-PATENT-CLASS-220-306 ..... 18 p2817 N84-27886*
US-PATENT-CLASS-228-157 ..... 02 p0187 N84-11214*
US-PATENT-CLASS-228-165 ..... 13 p1992 N84-22930*
US-PATENT-CLASS-228-181 ..... 02 p0187 N84-11214*
US-PATENT-CLASS-228-212 ..... 02 p0187 N84-11214*
US-PATENT-CLASS-239-265.17 ..... 05 p0742 N84-14873*
US-PATENT-CLASS-239-265.17 ..... 22 p3536 N84-32386
US-PATENT-CLASS-239-426 ..... 03 p0370 N84-12406*
US-PATENT-CLASS-239-568 ..... 07 p1011 N84-16561*
US-PATENT-CLASS-241-95 ..... 07 p1011 N84-16561*
US-PATENT-CLASS-244-2 ..... 18 p2803 N84-27787*
US-PATENT-CLASS-244-13 ..... 03 p0330 N84-12154*
US-PATENT-CLASS-244-35A 02 p0173 N84-11136*
US-PATENT-CLASS-244-35R 02 p0173 N84-11136*
US-PATENT-CLASS-244-35R 19 p2956 N84-28732*
US-PATENT-CLASS-244-45R 03 p0330 N84-12154*
US-PATENT-CLASS-244-53R 03 p0330 N84-12154*
US-PATENT-CLASS-244-55 ..... 03 p0330 N84-12154*
US-PATENT-CLASS-244-63 ..... 18 p2802 N84-27784*
US-PATENT-CLASS-244-63 ..... 18 p2803 N84-27787*
US-PATENT-CLASS-244-63 ..... 24 p3856 N84-34449
US-PATENT-CLASS-244-91 ..... 03 p0330 N84-12154*
US-PATENT-CLASS-244-117A 18 p2817 N84-27886*
US-PATENT-CLASS-244-119 ..... 02 p0187 N84-11214*
US-PATENT-CLASS-244-122 ..... 22 p3532 N84-32364
US-PATENT-CLASS-244-122 ..... 24 p3852 N84-34433
US-PATENT-CLASS-244-123 ..... 02 p0187 N84-11214*
US-PATENT-CLASS-244-158A 13 p1938 N84-22601*
US-PATENT-CLASS-244-158A 18 p2817 N84-27886*
US-PATENT-CLASS-244-158R 18 p2802 N84-27784*
US-PATENT-CLASS-244-161 ..... 13 p1938 N84-22605*
US-PATENT-CLASS-244-172 ..... 18 p2802 N84-27784*
US-PATENT-CLASS-244-172 ..... 18 p2803 N84-27787*
US-PATENT-CLASS-244-212 ..... 13 p1930 N84-22551*
US-PATENT-CLASS-244-215 ..... 13 p1930 N84-22551*
US-PATENT-CLASS-244-216 ..... 13 p1930 N84-22551*
US-PATENT-CLASS-244-219 ..... 13 p1930 N84-22551*
US-PATENT-CLASS-248-178 ..... 23 p3750 N84-33770
US-PATENT-CLASS-248-228 ..... 07 p1011 N84-16560*
US-PATENT-CLASS-250-203R 22 p3655 N84-33171
US-PATENT-CLASS-250-205 ..... 22 p3656 N84-33175
US-PATENT-CLASS-250-227 ..... 02 p0293 N84-11921*
US-PATENT-CLASS-250-227 ..... 22 p3656 N84-33174
US-PATENT-CLASS-250-251 ..... 23 p3749 N84-33767*
US-PATENT-CLASS-250-252.1 ..... 23 p3749 N84-33767*
US-PATENT-CLASS-250-296 ..... 18 p2838 N84-28016*
US-PATENT-CLASS-250-305 ..... 18 p2929 N84-28575*
US-PATENT-CLASS-250-332 ..... 18 p2932 N84-28590*
US-PATENT-CLASS-250-338 ..... 18 p2932 N84-28590*
US-PATENT-CLASS-250-339 ..... 23 p3749 N84-33766*
US-PATENT-CLASS-250-343 ..... 24 p3901 N84-34705*
US-PATENT-CLASS-250-351 ..... 24 p3901 N84-34705*
US-PATENT-CLASS-250-356.1 ..... 18 p2883 N84-28292*
US-PATENT-CLASS-250-363R 02 p0293 N84-11920*
US-PATENT-CLASS-250-363S 02 p0293 N84-11920*
US-PATENT-CLASS-250-367 ..... 23 p3749 N84-33765*
US-PATENT-CLASS-250-368 ..... 02 p0293 N84-11920*
US-PATENT-CLASS-250-372 ..... 23 p3749 N84-33767*
US-PATENT-CLASS-250-385 ..... 23 p3749 N84-33765*
US-PATENT-CLASS-250-483.1 ..... 23 p3749 N84-33765*
US-PATENT-CLASS-251-127 ..... 05 p0698 N84-14583*
US-PATENT-CLASS-252-182.1 ..... 05 p0673 N84-14422*
US-PATENT-CLASS-260-465.5R 13 p1961 N84-22744*
US-PATENT-CLASS-260-465.6 ..... 13 p1961 N84-22744*
US-PATENT-CLASS-264-41 ..... 18 p2894 N84-28361*
US-PATENT-CLASS-264-59 ..... 07 p0966 N84-16262*
US-PATENT-CLASS-264-60 ..... 07 p0966 N84-16262*
US-PATENT-CLASS-264-116 ..... 07 p0966 N84-16262*
US-PATENT-CLASS-264-270 ..... 22 p3544 N84-32434
US-PATENT-CLASS-269-3 ..... 03 p0382 N84-12491*
US-PATENT-CLASS-269-224 ..... 18 p2848 N84-28083*
US-PATENT-CLASS-269-242 ..... 18 p2848 N84-28083*
US-PATENT-CLASS-269-244 ..... 18 p2848 N84-28083*
US-PATENT-CLASS-269-252 ..... 18 p2848 N84-28083*
US-PATENT-CLASS-269-285 ..... 18 p2848 N84-28083*
US-PATENT-CLASS-277-116.6 ..... 02 p0228 N84-11497*
US-PATENT-CLASS-277-124 ..... 02 p0228 N84-11497*
US-PATENT-CLASS-277-164 ..... 02 p0228 N84-11497*
US-PATENT-CLASS-277-177 ..... 02 p0228 N84-11497*
US-PATENT-CLASS-277-190 ..... 02 p0228 N84-11497*
US-PATENT-CLASS-290-55 ..... 13 p2007 N84-23018*
US-PATENT-CLASS-294-88 ..... 24 p3909 N84-34762
US-PATENT-CLASS-294-88 ..... 24 p3909 N84-34763
US-PATENT-CLASS-297-DIG.5 ..... 23 p3691 N84-33394*
US-PATENT-CLASS-299-1 ..... 23 p3749 N84-33768*
US-PATENT-CLASS-307-87 ..... 23 p3734 N84-33660*
US-PATENT-CLASS-307-265 ..... 22 p3590 N84-32672
US-PATENT-CLASS-308-2A 03 p0383 N84-12492*
US-PATENT-CLASS-310-68B 18 p2838 N84-28017*
US-PATENT-CLASS-310-154 ..... 18 p2838 N84-28017*
US-PATENT-CLASS-310-171 ..... 18 p2838 N84-28017*
US-PATENT-CLASS-310-300 ..... 13 p2039 N84-23233*
US-PATENT-CLASS-310-317 ..... 13 p1993 N84-22932*
US-PATENT-CLASS-310-334 ..... 13 p1993 N84-22932*
US-PATENT-CLASS-310-366 ..... 13 p1993 N84-22932*
US-PATENT-CLASS-313-106 ..... 18 p2928 N84-28565*
US-PATENT-CLASS-313-107 ..... 18 p2928 N84-28565*
US-PATENT-CLASS-313-351 ..... 18 p2928 N84-28565*
US-PATENT-CLASS-315-3.5 ..... 07 p0995 N84-16452*
US-PATENT-CLASS-315-3.6 ..... 07 p0995 N84-16452*
US-PATENT-CLASS-315-3.6 ..... 18 p2831 N84-27974*
US-PATENT-CLASS-315-5.38 ..... 18 p2928 N84-28565*
US-PATENT-CLASS-315-39.3 ..... 07 p0995 N84-16452*
US-PATENT-CLASS-315-39.3 ..... 18 p2831 N84-27974*
US-PATENT-CLASS-318-116 ..... 13 p2039 N84-23233*
US-PATENT-CLASS-318-438 ..... 13 p1985 N84-22885*
US-PATENT-CLASS-318-587 ..... 23 p3750 N84-33769*
US-PATENT-CLASS-318-729 ..... 05 p0673 N84-14424*
US-PATENT-CLASS-318-729 ..... 13 p1985 N84-22885*
US-PATENT-CLASS-318-729 ..... 13 p1985 N84-22886*
US-PATENT-CLASS-318-729 ..... 18 p2832 N84-27975*
US-PATENT-CLASS-318-729 ..... 23 p3734 N84-33661*
US-PATENT-CLASS-318-798 ..... 05 p0673 N84-14424*
US-PATENT-CLASS-318-798 ..... 13 p1985 N84-22885*
US-PATENT-CLASS-318-799 ..... 07 p0996 N84-16455*
US-PATENT-CLASS-318-802 ..... 23 p3734 N84-33661*
US-PATENT-CLASS-318-805 ..... 13 p1985 N84-22885*
US-PATENT-CLASS-318-806 ..... 05 p0673 N84-14424*
US-PATENT-CLASS-318-809 ..... 18 p2832 N84-27975*
US-PATENT-CLASS-318-810 ..... 13 p1985 N84-22885*
US-PATENT-CLASS-318-812 ..... 13 p1985 N84-22886*
US-PATENT-CLASS-322-25 ..... 23 p3734 N84-33660*
US-PATENT-CLASS-322-29 ..... 23 p3734 N84-33660*
US-PATENT-CLASS-322-47 ..... 23 p3734 N84-33660*
US-PATENT-CLASS-322-95 ..... 23 p3734 N84-33660*
US-PATENT-CLASS-323-243 ..... 07 p0996 N84-16455*
US-PATENT-CLASS-323-246 ..... 07 p0996 N84-16455*
US-PATENT-CLASS-323-282 ..... 23 p3735 N84-33665
US-PATENT-CLASS-323-300 ..... 18 p2832 N84-27975*
US-PATENT-CLASS-323-901 ..... 23 p3734 N84-33663*
US-PATENT-CLASS-324-71.3 ..... 18 p2929 N84-28575*
US-PATENT-CLASS-324-72.5 ..... 18 p2929 N84-28575*
US-PATENT-CLASS-324-79R 07 p0996 N84-16454*
US-PATENT-CLASS-324-83A 07 p0996 N84-16454*
US-PATENT-CLASS-324-83R 07 p0996 N84-16454*
US-PATENT-CLASS-324-158D ..... 24 p3966 N84-35112* #
US-PATENT-CLASS-324-158R 24 p3897 N84-34674
US-PATENT-CLASS-324-158T ..... 24 p3966 N84-35112* #
US-PATENT-CLASS-324-250 ..... 03 p0375 N84-12444*
US-PATENT-CLASS-324-253 ..... 22 p3596 N84-32774
US-PATENT-CLASS-324-262 ..... 13 p1992 N84-22928*
US-PATENT-CLASS-324-457 ..... 18 p2929 N84-28575*
US-PATENT-CLASS-328-55 ..... 22 p3581 N84-32676
US-PATENT-CLASS-328-133 ..... 07 p0996 N84-16454*
US-PATENT-CLASS-328-230 ..... 03 p0375 N84-12444*
US-PATENT-CLASS-329-124 ..... 18 p2828 N84-27952*
US-PATENT-CLASS-330-107 ..... 05 p0673 N84-14421*
US-PATENT-CLASS-330-109 ..... 05 p0673 N84-14421*
US-PATENT-CLASS-330-109 ..... 13 p1985 N84-22887*
US-PATENT-CLASS-330-277 ..... 13 p1985 N84-22887*
US-PATENT-CLASS-330-289 ..... 07 p0996 N84-16454*
US-PATENT-CLASS-330-294 ..... 13 p1985 N84-22887*
US-PATENT-CLASS-331-82 ..... 18 p2831 N84-27974*
US-PATENT-CLASS-333-116 ..... 24 p3897 N84-34673

US-PATENT-CLASS-333-162 ..... 07 p0995 N84-16452*
US-PATENT-CLASS-333-162 ..... 18 p2831 N84-27974*
US-PATENT-CLASS-335-222 ..... 18 p2838 N84-28017*
US-PATENT-CLASS-338-2 ..... 03 p0375 N84-12443*
US-PATENT-CLASS-338-309 ..... 23 p3723 N84-33589*
US-PATENT-CLASS-339-64M 05 p0673 N84-14423*
US-PATENT-CLASS-339-258RR 05 p0673 N84-14423*
US-PATENT-CLASS-339-262RR 05 p0673 N84-14423*
US-PATENT-CLASS-340-705 ..... 18 p2795 N84-27733*
US-PATENT-CLASS-340-825.5 ..... 18 p2916 N84-28492*
US-PATENT-CLASS-340-825.21 ..... 18 p2916 N84-28492*
US-PATENT-CLASS-340-870.13 ..... 13 p1993 N84-22934*
US-PATENT-CLASS-340-905 ..... 23 p3750 N84-33769*
US-PATENT-CLASS-340-971 ..... 18 p2795 N84-27733*
US-PATENT-CLASS-340-975 ..... 18 p2795 N84-27733*
US-PATENT-CLASS-340-978 ..... 18 p2795 N84-27733*
US-PATENT-CLASS-340-980 ..... 18 p2795 N84-27733*
US-PATENT-CLASS-340-988 ..... 23 p3750 N84-33769*
US-PATENT-CLASS-343-5 ..... 24 p3893 N84-34652
US-PATENT-CLASS-343-5-CM 24 p3893 N84-34651*
US-PATENT-CLASS-343-5-DP 24 p3893 N84-34651*
US-PATENT-CLASS-343-5-FT 24 p3893 N84-34651*
US-PATENT-CLASS-343-9R 13 p1975 N84-22820*
US-PATENT-CLASS-343-17.5 ..... 13 p1975 N84-22820*
US-PATENT-CLASS-343-17.7 ..... 18 p2827 N84-27951*
US-PATENT-CLASS-343-105R 18 p2791 N84-27713*
US-PATENT-CLASS-343-356 ..... 13 p1929 N84-22546*
US-PATENT-CLASS-343-357 ..... 13 p1929 N84-22546*
US-PATENT-CLASS-343-381 ..... 22 p3580 N84-32674
US-PATENT-CLASS-343-700 ..... 22 p3571 N84-32617
US-PATENT-CLASS-343-768 ..... 24 p3893 N84-34653
US-PATENT-CLASS-350-96.10 ..... 02 p0293 N84-11921*
US-PATENT-CLASS-350-96.15 ..... 02 p0293 N84-11921*
US-PATENT-CLASS-350-96.15 ..... 24 p3963 N84-35094
US-PATENT-CLASS-350-162.12 ..... 22 p3656 N84-33172
US-PATENT-CLASS-350-162.12 ..... 22 p3656 N84-33173
US-PATENT-CLASS-350-172 ..... 13 p2042 N84-23248*
US-PATENT-CLASS-350-173 ..... 13 p2042 N84-23248*
US-PATENT-CLASS-350-299 ..... 05 p0686 N84-14509*
US-PATENT-CLASS-350-431 ..... 22 p3597 N84-32779
US-PATENT-CLASS-350-443 ..... 13 p2042 N84-23248*
US-PATENT-CLASS-351-224 ..... 22 p3596 N84-32775
US-PATENT-CLASS-356-51 ..... 24 p3901 N84-34705*
US-PATENT-CLASS-356-73 ..... 23 p3749 N84-33766*
US-PATENT-CLASS-356-74 ..... 23 p3749 N84-33766*
US-PATENT-CLASS-356-188 ..... 23 p3749 N84-33766*
US-PATENT-CLASS-356-189 ..... 23 p3749 N84-33766*
US-PATENT-CLASS-356-216 ..... 13 p1992 N84-22931*
US-PATENT-CLASS-356-234 ..... 13 p1992 N84-22931*
US-PATENT-CLASS-356-239 ..... 24 p3902 N84-34707
US-PATENT-CLASS-356-345 ..... 05 p0686 N84-14509*
US-PATENT-CLASS-356-347 ..... 13 p1992 N84-22929*
US-PATENT-CLASS-356-350 ..... 23 p3750 N84-33771
US-PATENT-CLASS-356-350 ..... 24 p3902 N84-34706
US-PATENT-CLASS-356-353 ..... 22 p3656 N84-33176
US-PATENT-CLASS-356-361 ..... 22 p3572 N84-32618
US-PATENT-CLASS-356-434 ..... 24 p3901 N84-34705*
US-PATENT-CLASS-357-29 ..... 23 p3749 N84-33765*
US-PATENT-CLASS-357-30 ..... 23 p3749 N84-33765*
US-PATENT-CLASS-357-32 ..... 23 p3749 N84-33765*
US-PATENT-CLASS-358-125 ..... 13 p2042 N84-23247*
US-PATENT-CLASS-358-213 ..... 13 p2042 N84-23247*
US-PATENT-CLASS-363-22 ..... 23 p3734 N84-33663*
US-PATENT-CLASS-363-25 ..... 07 p0995 N84-16453*
US-PATENT-CLASS-363-49 ..... 23 p3734 N84-33663*
US-PATENT-CLASS-363-65 ..... 07 p0995 N84-16453*
US-PATENT-CLASS-363-67 ..... 07 p0995 N84-16453*
US-PATENT-CLASS-363-71 ..... 07 p0995 N84-16453*
US-PATENT-CLASS-364-415 ..... 03 p0375 N84-12445*
US-PATENT-CLASS-364-452 ..... 18 p2791 N84-27713*
US-PATENT-CLASS-364-557 ..... 05 p0683 N84-14491*
US-PATENT-CLASS-364-558 ..... 05 p0683 N84-14491*
US-PATENT-CLASS-364-558 ..... 13 p1931 N84-22559*
US-PATENT-CLASS-364-571 ..... 05 p0683 N84-14491*
US-PATENT-CLASS-364-716 ..... 22 p3637 N84-33055
US-PATENT-CLASS-364-724 ..... 22 p3580 N84-32673
US-PATENT-CLASS-364-900 ..... 18 p2916 N84-28491*
US-PATENT-CLASS-364-900 ..... 18 p2916 N84-28492*
US-PATENT-CLASS-364-900 ..... 24 p3940 N84-34941
US-PATENT-CLASS-366-106 ..... 18 p2928 N84-28568*
US-PATENT-CLASS-367-12 ..... 24 p3893 N84-34654
US-PATENT-CLASS-367-131 ..... 22 p3563 N84-32563
US-PATENT-CLASS-367-150 ..... 24 p3963 N84-35093
US-PATENT-CLASS-367-189 ..... 13 p1993 N84-22933*
US-PATENT-CLASS-372-4 ..... 18 p2845 N84-28065*
US-PATENT-CLASS-372-20 ..... 13 p1994 N84-22943*
US-PATENT-CLASS-372-28 ..... 13 p1994 N84-22943*
US-PATENT-CLASS-372-32 ..... 13 p1994 N84-22943*
US-PATENT-CLASS-372-55 ..... 07 p1009 N84-16542*
US-PATENT-CLASS-372-71 ..... 18 p2845 N84-28065*
US-PATENT-CLASS-372-74 ..... 03 p0375 N84-12444*
US-PATENT-CLASS-372-79 ..... 07 p1009 N84-16542*
US-PATENT-CLASS-372-93 ..... 05 p0686 N84-14509*
US-PATENT-CLASS-372-93 ..... 18 p2845 N84-28065*
US-PATENT-CLASS-372-94 ..... 05 p0686 N84-14509*
US-PATENT-CLASS-372-95 ..... 18 p2845 N84-28065*
US-PATENT-CLASS-372-98 ..... 05 p0686 N84-14509*
US-PATENT-CLASS-372-99 ..... 22 p3600 N84-32600
US-PATENT-CLASS-372-100 ..... 05 p0686 N84-14509*
US-PATENT-CLASS-372-103 ..... 18 p2845 N84-28065*
US-PATENT-CLASS-372-108 ..... 05 p0686 N84-14509*
US-PATENT-CLASS-374-1 ..... 18 p2839 N84-28019*
US-PATENT-CLASS-375-77 ..... 18 p2828 N84-27952*
US-PATENT-CLASS-375-81 ..... 18 p2828 N84-27952*
US-PATENT-CLASS-375-120 ..... 18 p2828 N84-27952*
US-PATENT-CLASS-378-2 ..... 02 p0293 N84-11920*
US-PATENT-CLASS-381-71 ..... 23 p3735 N84-33667
US-PATENT-CLASS-383-103 ..... 22 p3542 N84-32421
US-PATENT-CLASS-403-322 ..... 13 p1938 N84-22605*
US-PATENT-CLASS-406-155 ..... 07 p1011 N84-16561*
US-PATENT-CLASS-414-589 ..... 23 p3696 N84-33421
US-PATENT-CLASS-415-DIG.8 ..... 13 p2007 N84-23018*
US-PATENT-CLASS-415-2R 13 p2007 N84-23018*
US-PATENT-CLASS-415-115 ..... 23 p3694 N84-33410*
US-PATENT-CLASS-415-174 ..... 13 p1997 N84-22957*
US-PATENT-CLASS-416-92 ..... 13 p1931 N84-22560*
US-PATENT-CLASS-416-97R 13 p1931 N84-22560*
US-PATENT-CLASS-416-117 ..... 03 p0383 N84-12493*
US-PATENT-CLASS-416-132B 03 p0383 N84-12493*
US-PATENT-CLASS-416-223R 02 p0173 N84-11136*
US-PATENT-CLASS-416-223R 19 p2956 N84-28732*
US-PATENT-CLASS-416-224 ..... 13 p1931 N84-22560*
US-PATENT-CLASS-416-233 ..... 13 p1931 N84-22560*
US-PATENT-CLASS-416-241R 23 p3716 N84-33555*
US-PATENT-CLASS-416-242 ..... 02 p0173 N84-11136*
US-PATENT-CLASS-416-242 ..... 19 p2956 N84-28732*
US-PATENT-CLASS-417-159 ..... 18 p2797 N84-27749*
US-PATENT-CLASS-417-328 ..... 18 p2848 N84-28081*
US-PATENT-CLASS-417-392 ..... 18 p2848 N84-28081*
US-PATENT-CLASS-417-462 ..... 18 p2848 N84-28081*
US-PATENT-CLASS-422-121 ..... 08 p1161 N84-17555*
US-PATENT-CLASS-422-169 ..... 08 p1161 N84-17555*
US-PATENT-CLASS-422-178 ..... 08 p1161 N84-17555*
US-PATENT-CLASS-422-186 ..... 08 p1161 N84-17555*
US-PATENT-CLASS-422-246 ..... 24 p3966 N84-35113*
US-PATENT-CLASS-422-249 ..... 24 p3966 N84-35113*
US-PATENT-CLASS-423-DIG.10 ..... 13 p1953 N84-22695*
US-PATENT-CLASS-423-303 ..... 13 p2007 N84-23019*
US-PATENT-CLASS-423-414 ..... 13 p1953 N84-22695*
US-PATENT-CLASS-423-445 ..... 13 p1953 N84-22695*
US-PATENT-CLASS-423-446 ..... 13 p1953 N84-22695*
US-PATENT-CLASS-423-449 ..... 13 p1953 N84-22695*
US-PATENT-CLASS-425-6 ..... 18 p2928 N84-28568*
US-PATENT-CLASS-427-6 ..... 07 p1089 N84-16940*
US-PATENT-CLASS-427-34 ..... 13 p1997 N84-22957*
US-PATENT-CLASS-427-34 ..... 18 p2813 N84-27855*
US-PATENT-CLASS-427-53.1 ..... 13 p1995 N84-22944*
US-PATENT-CLASS-427-53.1 ..... 13 p1997 N84-22957*
US-PATENT-CLASS-427-57 ..... 07 p1089 N84-16940*
US-PATENT-CLASS-427-58 ..... 07 p0996 N84-16456*
US-PATENT-CLASS-427-75 ..... 07 p0996 N84-16456*
US-PATENT-CLASS-427-88 ..... 07 p0996 N84-16456*
US-PATENT-CLASS-427-96 ..... 07 p0996 N84-16456*
US-PATENT-CLASS-427-113 ..... 18 p2868 N84-28205*
US-PATENT-CLASS-427-115 ..... 13 p1960 N84-22734*
US-PATENT-CLASS-427-115 ..... 18 p2868 N84-28205*
US-PATENT-CLASS-427-125 ..... 13 p1960 N84-22734*
US-PATENT-CLASS-427-125 ..... 18 p2868 N84-28205*
US-PATENT-CLASS-427-126.6 ..... 13 p1960 N84-22734*
US-PATENT-CLASS-427-216 ..... 07 p0996 N84-16456*
US-PATENT-CLASS-427-217 ..... 07 p0996 N84-16456*
US-PATENT-CLASS-427-226 ..... 07 p0996 N84-16456*
US-PATENT-CLASS-427-226 ..... 18 p2868 N84-28205*
US-PATENT-CLASS-427-296 ..... 13 p1960 N84-22734*
US-PATENT-CLASS-427-306 ..... 13 p1960 N84-22734*
US-PATENT-CLASS-427-346 ..... 07 p1089 N84-16940*
US-PATENT-CLASS-427-372.2 ..... 18 p2868 N84-28205*
US-PATENT-CLASS-427-376.6 ..... 07 p0996 N84-16456*
US-PATENT-CLASS-427-376.7 ..... 07 p0996 N84-16456*
US-PATENT-CLASS-427-379 ..... 18 p2868 N84-28205*
US-PATENT-CLASS-427-380 ..... 18 p2868 N84-28205*
US-PATENT-CLASS-427-399 ..... 13 p1995 N84-22944*
US-PATENT-CLASS-427-405 ..... 18 p2813 N84-27855*
US-PATENT-CLASS-427-419.2 ..... 18 p2813 N84-27855*
US-PATENT-CLASS-427-421 ..... 07 p1089 N84-16940*
US-PATENT-CLASS-427-423 ..... 13 p1997 N84-22957*
US-PATENT-CLASS-427-426 ..... 07 p1089 N84-16940*
US-PATENT-CLASS-427-436 ..... 07 p0996 N84-16456*
US-PATENT-CLASS-427-437 ..... 07 p0996 N84-16456*
US-PATENT-CLASS-427-443 ..... 18 p2868 N84-28205*
US-PATENT-CLASS-427-443.2 ..... 03 p0348 N84-12262*
US-PATENT-CLASS-428-40 ..... 05 p0658 N84-14323*
US-PATENT-CLASS-428-71 ..... 23 p3691 N84-33394*
US-PATENT-CLASS-428-76 ..... 23 p3691 N84-33394*
US-PATENT-CLASS-428-78 ..... 05 p0658 N84-14323*
US-PATENT-CLASS-428-155 ..... 13 p1997 N84-22957*
US-PATENT-CLASS-428-182 ..... 23 p3700 N84-33450*
US-PATENT-CLASS-428-184 ..... 23 p3700 N84-33450*
US-PATENT-CLASS-428-202 ..... 05 p0658 N84-14323*
US-PATENT-CLASS-428-246 ..... 05 p0657 N84-14322*
US-PATENT-CLASS-428-246 ..... 23 p3691 N84-33394*
US-PATENT-CLASS-428-260 ..... 05 p0657 N84-14322*

US-PATENT-CLASS-428-280 ..... 23 p3691 N84-33394*
US-PATENT-CLASS-428-287 ..... 23 p3691 N84-33394*
US-PATENT-CLASS-428-304.4 ..... 23 p3691 N84-33394*
US-PATENT-CLASS-428-319.1 ..... 23 p3691 N84-33394*
US-PATENT-CLASS-428-347 ..... 05 p0658 N84-14323*
US-PATENT-CLASS-428-367 ..... 05 p0657 N84-14322*
US-PATENT-CLASS-428-370 ..... 13 p1961 N84-22745*
US-PATENT-CLASS-428-408 ..... 05 p0657 N84-14322*
US-PATENT-CLASS-428-408 ..... 13 p1961 N84-22745*
US-PATENT-CLASS-428-423.5 ..... 23 p3691 N84-33394*
US-PATENT-CLASS-428-432 ..... 23 p3723 N84-33589*
US-PATENT-CLASS-428-473.5 ..... 05 p0657 N84-14322*
US-PATENT-CLASS-428-564 ..... 23 p3716 N84-33555*
US-PATENT-CLASS-428-593 ..... 02 p0187 N84-11214*
US-PATENT-CLASS-428-595 ..... 23 p3700 N84-33450*
US-PATENT-CLASS-428-632 ..... 18 p2813 N84-27855*
US-PATENT-CLASS-428-639 ..... 23 p3716 N84-33555*
US-PATENT-CLASS-428-678 ..... 23 p3716 N84-33555*
US-PATENT-CLASS-428-902 ..... 05 p0657 N84-14322*
US-PATENT-CLASS-428-902 ..... 13 p1961 N84-22745*
US-PATENT-CLASS-428-920 ..... 05 p0657 N84-14322*
US-PATENT-CLASS-428-920 ..... 13 p1961 N84-22745*
US-PATENT-CLASS-428-921 ..... 23 p3691 N84-33394*
US-PATENT-CLASS-429-44 ..... 18 p2868 N84-28205*
US-PATENT-CLASS-429-50 ..... 22 p3615 N84-32908
US-PATENT-CLASS-429-111 ..... 03 p0348 N84-12262*
US-PATENT-CLASS-429-111 ..... 13 p2007 N84-23019*
US-PATENT-CLASS-429-206 ..... 05 p0673 N84-14422*
US-PATENT-CLASS-429-223 ..... 13 p1960 N84-22734*
US-PATENT-CLASS-429-229 ..... 05 p0673 N84-14422*
US-PATENT-CLASS-429-234 ..... 13 p1960 N84-22734*
US-PATENT-CLASS-431-1 ..... 07 p0969 N84-16276*
US-PATENT-CLASS-431-121 ..... 22 p3600 N84-32799
US-PATENT-CLASS-434-2 ..... 18 p2827 N84-27951*
US-PATENT-CLASS-436-60 ..... 22 p3545 N84-32445
US-PATENT-CLASS-436-60 ..... 24 p3887 N84-34615
US-PATENT-CLASS-455-202 ..... 18 p2828 N84-27952*
US-PATENT-CLASS-455-208 ..... 18 p2828 N84-27952*
US-PATENT-CLASS-455-260 ..... 18 p2828 N84-27952*
US-PATENT-CLASS-455-265 ..... 18 p2828 N84-27952*
US-PATENT-CLASS-521-141 ..... 18 p2894 N84-28361*
US-PATENT-CLASS-521-142 ..... 18 p2894 N84-28361*
US-PATENT-CLASS-521-149 ..... 18 p2894 N84-28361*
US-PATENT-CLASS-523-435 ..... 02 p0187 N84-11213*
US-PATENT-CLASS-523-454 ..... 24 p3878 N84-34571*
US-PATENT-CLASS-523-456 ..... 02 p0187 N84-11213*
US-PATENT-CLASS-523-458 ..... 24 p3878 N84-34571*
US-PATENT-CLASS-524-171 ..... 13 p1962 N84-22747*
US-PATENT-CLASS-524-371 ..... 05 p0658 N84-14324*
US-PATENT-CLASS-524-494 ..... 05 p0657 N84-14322*
US-PATENT-CLASS-524-496 ..... 05 p0657 N84-14322*
US-PATENT-CLASS-524-500 ..... 05 p0657 N84-14322*
US-PATENT-CLASS-524-530 ..... 05 p0657 N84-14322*
US-PATENT-CLASS-525-282 ..... 05 p0657 N84-14322*
US-PATENT-CLASS-525-287 ..... 05 p0657 N84-14322*
US-PATENT-CLASS-525-389 ..... 13 p1962 N84-22750*
US-PATENT-CLASS-525-417 ..... 13 p1961 N84-22745*
US-PATENT-CLASS-525-426 ..... 13 p1962 N84-22746*
US-PATENT-CLASS-525-484 ..... 24 p3878 N84-34571*
US-PATENT-CLASS-525-534 ..... 13 p1962 N84-22747*
US-PATENT-CLASS-525-535 ..... 13 p1962 N84-22747*
US-PATENT-CLASS-525-536 ..... 13 p1962 N84-22747*
US-PATENT-CLASS-526-262 ..... 13 p1961 N84-22745*
US-PATENT-CLASS-526-262 ..... 18 p2817 N84-27885*
US-PATENT-CLASS-528-6 ..... 13 p1962 N84-22750*
US-PATENT-CLASS-528-7 ..... 13 p1962 N84-22750*
US-PATENT-CLASS-528-25 ..... 13 p1962 N84-22747*
US-PATENT-CLASS-528-26 ..... 13 p1962 N84-22747*
US-PATENT-CLASS-528-92 ..... 24 p3878 N84-34571*
US-PATENT-CLASS-528-110 ..... 02 p0187 N84-11213*
US-PATENT-CLASS-528-125 ..... 13 p1962 N84-22749*
US-PATENT-CLASS-528-128 ..... 13 p1962 N84-22749*
US-PATENT-CLASS-528-172 ..... 13 p1962 N84-22749*
US-PATENT-CLASS-528-183 ..... 13 p1962 N84-22746*
US-PATENT-CLASS-528-185 ..... 13 p1962 N84-22749*
US-PATENT-CLASS-528-220 ..... 13 p1962 N84-22746*
US-PATENT-CLASS-528-228 ..... 13 p1961 N84-22745*
US-PATENT-CLASS-528-271 ..... 18 p2817 N84-27884*
US-PATENT-CLASS-528-310 ..... 18 p2817 N84-27884*
US-PATENT-CLASS-528-322 ..... 13 p1961 N84-22745*
US-PATENT-CLASS-528-322 ..... 18 p2817 N84-27885*
US-PATENT-CLASS-528-327 ..... 18 p2817 N84-27884*
US-PATENT-CLASS-528-331 ..... 18 p2817 N84-27884*
US-PATENT-CLASS-528-342 ..... 18 p2817 N84-27885*
US-PATENT-CLASS-528-345 ..... 13 p1962 N84-22746*
US-PATENT-CLASS-528-348 ..... 13 p1962 N84-22746*
US-PATENT-CLASS-528-361 ..... 02 p0187 N84-11213*
US-PATENT-CLASS-528-362 ..... 13 p1961 N84-22744*
US-PATENT-CLASS-528-362 ..... 18 p2817 N84-27884*
US-PATENT-CLASS-528-394 ..... 13 p1962 N84-22750*
US-PATENT-CLASS-528-399 ..... 13 p1962 N84-22750*
US-PATENT-CLASS-528-401 ..... 13 p1961 N84-22744*
US-PATENT-CLASS-528-407 ..... 24 p3878 N84-34571*
US-PATENT-CLASS-528-422 ..... 13 p1961 N84-22744*
US-PATENT-CLASS-528-423 ..... 13 p1961 N84-22744*
US-PATENT-CLASS-544-215 ..... 13 p1961 N84-22744*
US-PATENT-CLASS-548-415 ..... 13 p1961 N84-22745*
US-PATENT-CLASS-564-243 ..... 13 p1961 N84-22744*
US-PATENT-CLASS-568-4 ..... 13 p1962 N84-22750*
US-PATENT-CLASS-568-5 ..... 13 p1962 N84-22750*
US-PATENT-CLASS-568-13 ..... 22 p3558 N84-32529
US-PATENT-CLASS-604-368 ..... 02 p0269 N84-11758*
US-PATENT-CLASS-604-378 ..... 02 p0269 N84-11758*
US-PATENT-CLASS-604-396 ..... 02 p0269 N84-11758*
US-PATENT-CLASS-33914R 22 p3581 N84-32675

US-PATENT-4,043,668 ..... 23 p3749 N84-33766*
US-PATENT-4,338,371 ..... 02 p0269 N84-11758*
US-PATENT-4,346,595 ..... 24 p3855 N84-34443*
US-PATENT-4,349,424 ..... 18 p2928 N84-28565*
US-PATENT-4,349,824 ..... 22 p3571 N84-32617
US-PATENT-4,376,637 ..... 08 p1161 N84-17555*
US-PATENT-4,377,371 ..... 13 p1997 N84-22957*
US-PATENT-4,388,171 ..... 07 p0965 N84-16255*
US-PATENT-4,388,346 ..... 07 p0996 N84-16456*
US-PATENT-4,388,585 ..... 23 p3734 N84-33660*
US-PATENT-4,393,777 ..... 03 p0382 N84-12491*
US-PATENT-4,395,511 ..... 05 p0658 N84-14324*
US-PATENT-4,395,540 ..... 13 p1962 N84-22746*
US-PATENT-4,395,557 ..... 13 p1961 N84-22745*
US-PATENT-4,396,918 ..... 18 p2791 N84-27713*
US-PATENT-4,398,412 ..... 18 p2839 N84-28018*
US-PATENT-4,398,667 ..... 05 p0742 N84-14873*
US-PATENT-4,399,515 ..... 05 p0683 N84-14491*
US-PATENT-4,404,469 ..... 02 p0293 N84-11920*
US-PATENT-4,404,666 ..... 22 p3563 N84-32563
US-PATENT-4,405,184 ..... 03 p0383 N84-12492*
US-PATENT-4,405,197 ..... 02 p0293 N84-11921*
US-PATENT-4,407,686 ..... 03 p0375 N84-12443*
US-PATENT-4,408,597 ..... 02 p0265 N84-11744*
US-PATENT-4,410,189 ..... 02 p0228 N84-11497*
US-PATENT-4,410,682 ..... 02 p0187 N84-11213*
US-PATENT-4,411,380 ..... 02 p0187 N84-11214*
US-PATENT-4,411,597 ..... 13 p1931 N84-22560*
US-PATENT-4,411,660 ..... 02 p0269 N84-11758*
US-PATENT-4,412,664 ..... 02 p0173 N84-11136*
US-PATENT-4,413,522 ..... 03 p0375 N84-12445*
US-PATENT-4,413,784 ..... 03 p0370 N84-12406*
US-PATENT-4,414,080 ..... 03 p0348 N84-12262*
US-PATENT-4,414,509 ..... 03 p0375 N84-12444*
US-PATENT-4,414,816 ..... 15 p2260 N84-24577*
US-PATENT-4,415,133 ..... 03 p0330 N84-12154*
US-PATENT-4,415,311 ..... 03 p0383 N84-12493*
US-PATENT-4,415,450 ..... 03 p0406 N84-12654*
US-PATENT-4,416,111 ..... 23 p3694 N84-33410*
US-PATENT-4,416,266 ..... 18 p2899 N84-28388*
US-PATENT-4,417,175 ..... 18 p2928 N84-28565*
US-PATENT-4,417,190 ..... 05 p0673 N84-14424*
US-PATENT-4,417,215 ..... 05 p0673 N84-14421*
US-PATENT-4,418,130 ..... 05 p0673 N84-14422*
US-PATENT-4,418,480 ..... 05 p0629 N84-14132*
US-PATENT-4,418,722 ..... 05 p0698 N84-14583*
US-PATENT-4,419,635 ..... 24 p3897 N84-34673
US-PATENT-4,420,035 ..... 05 p0678 N84-14461*
US-PATENT-4,420,352 ..... 13 p1962 N84-22748*
US-PATENT-4,420,518 ..... 05 p0658 N84-14323*
US-PATENT-4,420,836 ..... 05 p0686 N84-14509*
US-PATENT-4,420,977 ..... 13 p2039 N84-23233*
US-PATENT-4,421,109 ..... 07 p1050 N84-16803*
US-PATENT-4,421,371 ..... 05 p0673 N84-14423*
US-PATENT-4,421,393 ..... 22 p3596 N84-32775
US-PATENT-4,421,700 ..... 07 p0966 N84-16262*
US-PATENT-4,421,820 ..... 05 p0657 N84-14322*
US-PATENT-4,422,012 ..... 07 p0995 N84-16452*
US-PATENT-4,422,609 ..... 07 p1011 N84-16560*
US-PATENT-4,423,605 ..... 13 p1988 N84-22903*
US-PATENT-4,424,592 ..... 07 p1009 N84-16542*
US-PATENT-4,425,376 ..... 07 p1069 N84-16940*
US-PATENT-4,425,543 ..... 07 p0996 N84-16454*
US-PATENT-4,425,785 ..... 07 p0961 N84-16231*
US-PATENT-4,425,808 ..... 18 p2838 N84-28015*
US-PATENT-4,425,854 ..... 07 p0969 N84-16276*
US-PATENT-4,426,614 ..... 07 p0996 N84-16455*
US-PATENT-4,426,678 ..... 07 p0995 N84-16453*
US-PATENT-4,426,874 ..... 18 p2839 N84-28019*
US-PATENT-4,428,073 ..... 22 p3541 N84-32418
US-PATENT-4,428,122 ..... 07 p1006 N84-16523*
US-PATENT-4,428,226 ..... 13 p1931 N84-22559*
US-PATENT-4,428,675 ..... 13 p1992 N84-22929*
US-PATENT-4,428,703 ..... 07 p1011 N84-16561*
US-PATENT-4,429,537 ..... 13 p1997 N84-22958*
US-PATENT-4,430,360 ..... 13 p1997 N84-22957*
US-PATENT-4,430,673 ..... 13 p2042 N84-23247*
US-PATENT-4,431,306 ..... 13 p1992 N84-22931*
US-PATENT-4,431,333 ..... 13 p1938 N84-22605*
US-PATENT-4,431,761 ..... 13 p1962 N84-22747*
US-PATENT-4,431,792 ..... 13 p1962 N84-22746*
US-PATENT-4,432,853 ..... 13 p2019 N84-23095*
US-PATENT-4,433,115 ..... 13 p1961 N84-22745*
US-PATENT-4,433,276 ..... 13 p1985 N84-22885*
US-PATENT-4,433,439 ..... 13 p2022 N84-23113*
US-PATENT-4,433,544 ..... 13 p2007 N84-23018*

US-PATENT-4,433,672 ..... 18 p2867 N84-28203*
US-PATENT-4,434,106 ..... 13 p1961 N84-22744*
US-PATENT-4,434,189 ..... 13 p1995 N84-22944*
US-PATENT-4,434,490 ..... 13 p1994 N84-22943*
US-PATENT-4,434,659 ..... 13 p1992 N84-22928*
US-PATENT-4,435,642 ..... 18 p2838 N84-28016*
US-PATENT-4,435,781 ..... 18 p2916 N84-28491*
US-PATENT-4,436,425 ..... 22 p3572 N84-32618
US-PATENT-4,437,069 ..... 13 p1985 N84-22887*
US-PATENT-4,437,628 ..... 22 p3532 N84-32364
US-PATENT-4,437,923 ..... 13 p1992 N84-22930*
US-PATENT-4,437,961 ..... 13 p1985 N84-22884*
US-PATENT-4,437,962 ..... 13 p1953 N84-22695*
US-PATENT-4,438,203 ..... 24 p3887 N84-34615
US-PATENT-4,438,517 ..... 22 p3600 N84-32800
US-PATENT-4,439,269 ..... 22 p3580 N84-32671
US-PATENT-4,439,301 ..... 13 p2007 N84-23019*
US-PATENT-4,439,465 ..... 13 p1980 N84-22734*
US-PATENT-4,439,718 ..... 13 p1985 N84-22886*
US-PATENT-4,439,766 ..... 13 p1975 N84-22820*
US-PATENT-4,439,770 ..... 22 p3580 N84-32674
US-PATENT-4,439,968 ..... 13 p1938 N84-22601*
US-PATENT-4,440,498 ..... 23 p3750 N84-33771
US-PATENT-4,442,350 ..... 22 p3656 N84-33174
US-PATENT-4,442,716 ..... 13 p1993 N84-22934*
US-PATENT-4,443,321 ..... 13 p1955 N84-22709*
US-PATENT-4,443,701 ..... 18 p2932 N84-28590*
US-PATENT-4,443,724 ..... 18 p2838 N84-28017*
US-PATENT-4,443,765 ..... 22 p3581 N84-32676
US-PATENT-4,444,368 ..... 13 p1930 N84-22551*
US-PATENT-4,444,425 ..... 24 p3909 N84-34763
US-PATENT-4,444,464 ..... 13 p2042 N84-23248*
US-PATENT-4,444,972 ..... 13 p1962 N84-22750*
US-PATENT-4,444,979 ..... 13 p1962 N84-22749*
US-PATENT-4,445,118 ..... 13 p1929 N84-22546*
US-PATENT-4,445,207 ..... 24 p3963 N84-35093
US-PATENT-4,445,378 ..... 13 p1993 N84-22933*
US-PATENT-4,445,719 ..... 24 p3909 N84-34762
US-PATENT-4,445,733 ..... 22 p3581 N84-32675
US-PATENT-4,445,780 ..... 24 p3902 N84-34706
US-PATENT-4,446,199 ..... 23 p3716 N84-33555*
US-PATENT-4,446,363 ..... 22 p3655 N84-33171
US-PATENT-4,446,396 ..... 13 p1993 N84-22932*
US-PATENT-4,446,459 ..... 18 p2916 N84-28492*
US-PATENT-4,446,556 ..... 18 p2845 N84-28065*
US-PATENT-4,446,757 ..... 18 p2848 N84-28084*
US-PATENT-4,447,117 ..... 24 p3963 N84-35094
US-PATENT-4,447,186 ..... 23 p3696 N84-33421
US-PATENT-4,447,251 ..... 18 p2928 N84-28568*
US-PATENT-4,447,272 ..... 22 p3661 N84-33208
US-PATENT-4,447,776 ..... 22 p3596 N84-32774
US-PATENT-4,447,943 ..... 18 p2899 N84-28389*
US-PATENT-4,447,947 ..... 23 p3735 N84-33666
US-PATENT-4,448,078 ..... 22 p3596 N84-32776
US-PATENT-4,448,086 ..... 22 p3596 N84-32777
US-PATENT-4,448,354 ..... 22 p3536 N84-32386
US-PATENT-4,448,377 ..... 23 p3750 N84-33770
US-PATENT-4,448,408 ..... 18 p2848 N84-28083*
US-PATENT-4,448,486 ..... 22 p3656 N84-33173
US-PATENT-4,448,645 ..... 22 p3661 N84-33209
US-PATENT-4,448,742 ..... 22 p3544 N84-32434
US-PATENT-4,448,859 ..... 22 p3615 N84-32908
US-PATENT-4,448,887 ..... 22 p3545 N84-32445
US-PATENT-4,449,032 ..... 22 p3597 N84-32778
US-PATENT-4,449,043 ..... 22 p3656 N84-33175
US-PATENT-4,449,235 ..... 23 p3735 N84-33667
US-PATENT-4,449,242 ..... 22 p3542 N84-32421
US-PATENT-4,449,370 ..... 23 p3756 N84-33808*
US-PATENT-4,449,400 ..... 18 p2883 N84-28292*
US-PATENT-4,449,514 ..... 18 p2867 N84-28204*
US-PATENT-4,449,894 ..... 18 p2848 N84-28081*
US-PATENT-4,450,041 ..... 24 p3966 N84-35114
US-PATENT-4,450,268 ..... 18 p2817 N84-27884*
US-PATENT-4,450,444 ..... 24 p3893 N84-34652
US-PATENT-4,450,447 ..... 18 p2827 N84-27951*
US-PATENT-4,451,017 ..... 18 p2803 N84-27787*
US-PATENT-4,451,496 ..... 18 p2813 N84-27855*
US-PATENT-4,452,039 ..... 22 p3561 N84-32551
US-PATENT-4,452,088 ..... 18 p2808 N84-27829*
US-PATENT-4,452,412 ..... 18 p2802 N84-27784*
US-PATENT-4,453-426 ..... 24 p3853 N84-34436
US-PATENT-4,453,163 ..... 18 p2795 N84-27733*
US-PATENT-4,453,587 ..... 22 p3656 N84-33177
US-PATENT-4,453,804 ..... 22 p3656 N84-33172
US-PATENT-4,453,806 ..... 22 p3597 N84-32779
US-PATENT-4,453,827 ..... 22 p3656 N84-33176
US-PATENT-4,453,914 ..... 22 p3600 N84-32799
US-PATENT-4,453,995 ..... 22 p3534 N84-32376
US-PATENT-4,454,349 ..... 22 p3558 N84-32529
US-PATENT-4,454,371 ..... 23 p3785 N84-34004
US-PATENT-4,454,430 ..... 22 p3580 N84-32672
US-PATENT-4,454,513 ..... 22 p3572 N84-32619
US-PATENT-4,454,589 ..... 22 p3637 N84-33055
US-PATENT-4,454,590 ..... 22 p3580 N84-32673
US-PATENT-4,454,597 ..... 24 p3893 N84-34654
US-PATENT-4,454,611 ..... 18 p2915 N84-28484*
US-PATENT-4,454,649 ..... 18 p2868 N84-28205*
US-PATENT-4,454,753 ..... 18 p2797 N84-27749*
US-PATENT-4,455,418 ..... 18 p2817 N84-27885*
US-PATENT-4,455,526 ..... 23 p3735 N84-33665
US-PATENT-4,455,532 ..... 18 p2929 N84-28575*
US-PATENT-4,455,660 ..... 18 p2828 N84-27952*
US-PATENT-4,456,208 ..... 18 p2817 N84-27886*
US-PATENT-4,456,708 ..... 18 p2894 N84-28361*
US-PATENT-4,457,174 ..... 24 p3911 N84-34768
US-PATENT-4,458-250 ..... 24 p3893 N84-34653
US-PATENT-4,458,418 ..... 18 p2848 N84-28085*
US-PATENT-4,458,554 ..... 18 p2848 N84-28082*
US-PATENT-4,459-547 ..... 24 p3897 N84-34674
US-PATENT-4,459,083 ..... 19 p2956 N84-28732*
US-PATENT-4,459,470 ..... 23 p3723 N84-33589*
US-PATENT-4,459,528 ..... 18 p2832 N84-27975*
US-PATENT-4,459,562 ..... 18 p2831 N84-27974*
US-PATENT-4,461,570 ..... 24 p3902 N84-34707
US-PATENT-4,462,560 ..... 24 p3856 N84-34449
US-PATENT-4,462,562 ..... 24 p3852 N84-34433
US-PATENT-4,462,871 ..... 24 p3966 N84-35112* #
US-PATENT-4,463,443 ..... 24 p3940 N84-34941
US-PATENT-4,463,465 ..... 23 p3691 N84-33394*
US-PATENT-4,464,710 ..... 23 p3734 N84-33663*
US-PATENT-4,466,667 ..... 23 p3749 N84-33768*
US-PATENT-4,469,552 ..... 24 p3966 N84-35113*
US-PATENT-4,469,942 ..... 23 p3749 N84-33767*
US-PATENT-4,469,998 ..... 23 p3734 N84-33661*
US-PATENT-4,470,293 ..... 23 p3756 N84-33807*
US-PATENT-4,470,403 ..... 24 p3916 N84-34792*
US-PATENT-4,471,357 ..... 24 p3893 N84-34651*
US-PATENT-4,472,473 ..... 23 p3700 N84-33450*
US-PATENT-4,472,716 ..... 23 p3750 N84-33769*
US-PATENT-4,472,728 ..... 23 p3749 N84-33765*
US-PATENT-4,473,674 ..... 24 p3878 N84-34571*
US-PATENT-4,473,792 ..... 23 p3734 N84-33660*
US-PATENT-4,474,062 ..... 24 p3855 N84-34443*
US-PATENT-4,474,180 ..... 24 p3936 N84-34913*
US-PATENT-4,474,471 ..... 24 p3901 N84-34705*
US-PATENT-4,475,365 ..... 24 p3856 N84-34448*

US-POLYMODE-CONTRIB-181 ..... 11 p1689 N84-21017 #

USAAEFA-81-11 ..... 18 p2793 N84-27725 #
USAAEFA-82-14 ..... 05 p0630 N84-14139 #
USAAEFA-82-18 ..... 17 p2606 N84-26695 #
USAAEFA-83-17-F ..... 17 p2606 N84-26696 #

USAARL-83-10 ..... 01 p0117 N84-10780 #
USAARL-83-12 ..... 03 p0415 N84-12714 #
USAARL-83-13 ..... 04 p0483 N84-13179 #
USAARL-83-14 ..... 08 p1205 N84-17860 #
USAARL-84-1 ..... 12 p1867 N84-22170 #
USAARL-84-2 ..... 12 p1868 N84-22171 #
USAARL-84-3 ..... 12 p1868 N84-22173 #
USAARL-84-6 ..... 17 p2748 N84-27443 #
USAARL-84-7 ..... 19 p3065 N84-29448 #
USAARL-84-8 ..... 24 p3938 N84-34924 #
USAARL-84-9 ..... 24 p3894 N84-34658 #

USAAVRADCOM-TM-83-A-1 ..... 04 p0483 N84-13177* #
USAAVRADCOM-TM-83-F-5 ..... 11 p1607 N84-20523 #

USAAVRADCOM-TR-82-D-40 ..... 11 p1603 N84-20497 #
USAAVRADCOM-TR-83-A-2 ..... 09 p1386 N84-19050* #
USAAVRADCOM-TR-83-A-12 ..... 02 p0174 N84-11143* #
USAAVRADCOM-TR-83-A-13 ..... 01 p0005 N84-10034* #
USAAVRADCOM-TR-83-A-14 ..... 01 p0003 N84-10020* #
USAAVRADCOM-TR-83-A-15 ..... 07 p0946 N84-16138* #
USAAVRADCOM-TR-83-D-23 ..... 08 p1103 N84-17176 #
USAAVRADCOM-TR-83-E-1 ..... 04 p0484 N84-13185 #
USAAVRADCOM-TR-83-E-2 ..... 08 p1104 N84-17181 #
USAAVRADCOM-TR-83-E-15 ..... 12 p1771 N84-21547 #
USAAVRADCOM-TR-83-F-6 ..... 01 p0032 N84-10200 #
USAAVRADCOM-TR-83-F-7 ..... 05 p0645 N84-14245 #

USAAVRADCOM-83E-10 ..... 10 p1481 N84-19681 #
USAAVRADCOM-83E-13 ..... 10 p1481 N84-19679 #

USAAVSCOM-TM-84-A-2 ..... 14 p2110 N84-23653* #
USAAVSCOM-TM-84-A-5 ..... 19 p2968 N84-26809* #

USAAVSCOM-TR-83-B-6 ..... 06 p0798 N84-15199* #
USAAVSCOM-TR-83-C-16 ..... 22 p3531 N84-32357* #
USAAVSCOM-TR-84-A-1 ..... 21 p3398 N84-31554* #
USAAVSCOM-TR-84-A-3 ..... 15 p2255 N84-24540* #
USAAVSCOM-TR-84-A-14 ..... 14 p2103 N84-23617* #
USAAVSCOM-TR-84-B-1 ..... 10 p1464 N84-19565* #
USAAVSCOM-TR-84-B-2 ..... 18 p2809 N84-27835* #
USAAVSCOM-TR-84-C-1 ..... 16 p2439 N84-25647* #
USAAVSCOM-TR-84-C-1 ..... 20 p3129 N84-29870* #
USAAVSCOM-TR-84-C-3 ..... 21 p3325 N84-31095* #
USAAVSCOM-TR-84-C-7 ..... 16 p2438 N84-25644* #
USAAVSCOM-TR-84-C-8 ..... 16 p2433 N84-25606* #
USAAVSCOM-TR-84-C-9 ..... 19 p3031 N84-29223* #
USAAVSCOM-TR-84-C-10 ..... 20 p3195 N84-30294* #

USAAVSCOM-TR-84-C-11	20	p3195	N84-30293*	#
USAAVSCOM-TR-84-C-13	23	p3694	N84-33414*	#
USAAVSCOM-TR-84-C-16	23	p3717	N84-33564*	#
USAAVSCOM-TR-84-E-3	23	p3693	N84-33408	#
USAAVSCOM-TR-84-F-4	21	p3323	N84-31085	#
USACEEIA-SEIP-011	01	p0066	N84-10430	#
USAFA-TN-83-3-SUPPL	02	p0181	N84-11179	#
USAFA-TN-83-6	01	p0004	N84-10026	#
USAFA-TN-83-7	06	p0783	N84-15126	#
USAFA-TN-83-8	04	p0489	N84-13215	#
USAFA-TN-83-9	02	p0178	N84-11165	#
USAFA-TR-83-12	01	p0112	N84-10725	#
USAFA-TR-83-14	05	p0729	N84-14784	#
USAFA-TR-83-15	06	p1099	N84-17145	#
USAFA-TR-84-2	18	p2902	N84-28403	#
USAFA-TR-84-5	20	p3125	N84-29849	#
USAFA-TR-84-6	18	p2808	N84-27828	#
USAFA-TR-84-01	12	p1896	N84-22350	#
USAFAS/MSLD/SB105	14	p2221	N84-24328	#
USAFETAC/DS-78/005	02	p0255	N84-11667	#
USAFETAC/DS-78/011	16	p2531	N84-26247	#
USAFETAC/DS-79/042	07	p1036	N84-16723	#
USAFETAC/DS-79/054	02	p0254	N84-11666	#
USAFETAC/DS-79/056	02	p0254	N84-11662	#
USAFETAC/DS-79/059	07	p1036	N84-16724	#
USAFETAC/DS-79/071	07	p1038	N84-16731	#
USAFETAC/DS-79/097	16	p2530	N84-26246	#
USAFETAC/DS-79/098	16	p2531	N84-26250	#
USAFETAC/DS-79/104	18	p2890	N84-28342	#
USAFETAC/DS-79/106	16	p2530	N84-26244	#
USAFETAC/DS-79/107	11	p1685	N84-20991	#
USAFETAC/DS-79/110	16	p2531	N84-26248	#
USAFETAC/DS-79/111	15	p2372	N84-25229	#
USAFETAC/DS-79/114	02	p0254	N84-11665	#
USAFETAC/DS-79/115	02	p0255	N84-11669	#
USAFETAC/DS-79/117	11	p1686	N84-20998	#
USAFETAC/DS-79/120	07	p1037	N84-16725	#
USAFETAC/DS-80/007	11	p1686	N84-20996	#
USAFETAC/DS-80/010	07	p1037	N84-16726	#
USAFETAC/DS-80/037	02	p0256	N84-11674	#
USAFETAC/DS-80/045	07	p1037	N84-16727	#
USAFETAC/DS-80/089	12	p1860	N84-22121	#
USAFETAC/DS-81/001	16	p2531	N84-26249	#
USAFETAC/DS-81/074	02	p0256	N84-11673	#
USAFETAC/DS-81/092	11	p1685	N84-20992	#
USAFETAC/DS-82/058	01	p0108	N84-10699	#
USAFETAC/DS-83/008	01	p0107	N84-10698	#
USAFETAC/DS-83/012	02	p0256	N84-11674	#
USAFETAC/DS-83/014	02	p0254	N84-11663	#
USAFETAC/DS-83/015	02	p0256	N84-11673	#
USAFETAC/DS-83/015	07	p1037	N84-16729	#
USAFETAC/DS-83/016	02	p0255	N84-11672	#
USAFETAC/DS-83/017	02	p0255	N84-11671	#
USAFETAC/DS-83/019	02	p0255	N84-11670	#
USAFETAC/DS-83/020	02	p0255	N84-11669	#
USAFETAC/DS-83/021	01	p0109	N84-10705	#
USAFETAC/DS-83/022	02	p0255	N84-11667	#
USAFETAC/DS-83/023	02	p0255	N84-11668	#
USAFETAC/DS-83/024	02	p0254	N84-11662	#
USAFETAC/DS-83/025	02	p0254	N84-11666	#
USAFETAC/DS-83/026	02	p0254	N84-11665	#
USAFETAC/DS-83/027	07	p1036	N84-16723	#
USAFETAC/DS-83/028	07	p1036	N84-16724	#
USAFETAC/DS-83/029	07	p1038	N84-16732	#
USAFETAC/DS-83/030	07	p1037	N84-16725	#
USAFETAC/DS-83/031	07	p1037	N84-16726	#
USAFETAC/DS-83/032	07	p1037	N84-16729	#
USAFETAC/DS-83/033	07	p1038	N84-16735	#
USAFETAC/DS-83/034	07	p1038	N84-16734	#
USAFETAC/DS-83/035	07	p1039	N84-16736	#
USAFETAC/DS-83/036	07	p1038	N84-16733	#
USAFETAC/DS-83/037	07	p1037	N84-16727	#
USAFETAC/DS-83/038	07	p1037	N84-16728	#
USAFETAC/DS-83/040	07	p1038	N84-16730	#
USAFETAC/DS-83/041	07	p1038	N84-16731	#
USAFETAC/DS-83/042	11	p1685	N84-20989	#
USAFETAC/DS-83/044	11	p1685	N84-20990	#
USAFETAC/DS-83/045-REV	11	p1685	N84-20991	#
USAFETAC/DS-83/046-REV	11	p1685	N84-20992	#
USAFETAC/DS-83/047-REV	11	p1685	N84-20993	#
USAFETAC/DS-83/048-REV	11	p1686	N84-20994	#
USAFETAC/DS-83/049	15	p2372	N84-25229	#
USAFETAC/DS-83/050-REV	11	p1686	N84-20995	#
USAFETAC/DS-83/051	12	p1860	N84-22121	#
USAFETAC/DS-83/052-REV	11	p1686	N84-20996	#
USAFETAC/DS-84/001	11	p1686	N84-20997	#
USAFETAC/DS-84/002-REV	11	p1686	N84-20998	#
USAFETAC/DS-84/003	16	p2530	N84-26243	#
USAFETAC/DS-84/004	16	p2530	N84-26242	#
USAFETAC/DS-84/005	16	p2530	N84-26244	#
USAFETAC/DS-84/006	16	p2530	N84-26245	#
USAFETAC/DS-84/007	18	p2890	N84-28343	#
USAFETAC/DS-84/008	16	p2531	N84-26248	#
USAFETAC/DS-84/009	16	p2531	N84-26249	#
USAFETAC/DS-84/010	16	p2530	N84-26246	#
USAFETAC/DS-84/011	16	p2531	N84-26247	#
USAFETAC/DS-84/012	16	p2531	N84-26250	#
USAFETAC/TN-82/007	01	p0107	N84-10697	#
USAFETAC/TN-83/001	04	p0568	N84-13742	#
USAFSAM-TR-83-15	02	p0284	N84-11861	#
USAFSAM-TR-83-16	02	p0284	N84-11862	#
USAFSAM-TR-83-20	07	p1042	N84-16759	#
USAFSAM-TR-83-21	12	p1773	N84-21564	#
USAFSAM-TR-83-34	19	p2970	N84-28820	#
USAFSAM-TR-83-36	11	p1695	N84-21056	#
USAFSAM-TR-83-42	12	p1863	N84-22141	#
USAFSAM-TR-83-46	13	p2020	N84-23097	#
USAFSAM-TR-83-48	18	p2818	N84-27892	#
USAFSAM-TR-83-50	14	p2184	N84-24087	#
USAFSAM-TR-84-1	19	p2984	N84-28911	#
USAFSAM-TR-84-2	19	p3063	N84-29434	#
USAFSAM-TR-84-6	15	p2379	N84-25280	#
USAFSAM-TR-84-7	20	p3256	N84-30669	#
USAFSAM-TR-84-8	18	p2894	N84-28363	#
USAFSAM-TR-84-9	19	p3065	N84-29443	#
USAFSAM-TR-84-11	20	p3256	N84-30670	#
USAFSAM-TR-84-12	21	p3453	N84-31914	#
USAFSAM-TR-84-16	22	p3631	N84-33007	#
USAFSAM-TR-84-17	21	p3453	N84-31912	#
USAFSAM-TR-84-23	21	p3359	N84-31306	#
USAIRO-TR-83/3	08	p1095	N84-17122	#
USAMBRDL-TR-8303	18	p2877	N84-28270	#
USAMBRDL-TR-8311	18	p2811	N84-27844	#
USARIEM-M-2/84	06	p0887	N84-15769	#
USARIEM-M-4/84	08	p1201	N84-17831	#
USARIEM-M-5/84	08	p1200	N84-17826	#
USARIEM-M-6/84	10	p1548	N84-20146	#
USARIEM-M-9/83	08	p1200	N84-17824	#
USARIEM-M-10/84	11	p1696	N84-21061	#
USARIEM-M-11/84	15	p2380	N84-25281	#
USARIEM-M-12/84	15	p2380	N84-25282	#
USARIEM-M-13/84	15	p2380	N84-25284	#
USARIEM-M-16/84	23	p3810	N84-34159	#
USARIEM-M-18/84	23	p3810	N84-34158	#
USARIEM-M-19/84	16	p2535	N84-26277	#
USARIEM-M-20/84	16	p2538	N84-26293	#
USARIEM-M-22/84	17	p2746	N84-27437	#
USARIEM-M-23/84	19	p3065	N84-29444	#
USARIEM-M-24/84	19	p3066	N84-29449	#
USARIEM-M-25/84	19	p3066	N84-29452	#
USARIEM-M-26/84	19	p3066	N84-29454	#
USARIEM-M-27/84	19	p3066	N84-29453	#
USARIEM-M-29/84	22	p3628	N84-32991	#
USARIEM-M-32/83	06	p0887	N84-15768	#
USARIEM-M-33/83	23	p3811	N84-34168	#
USARIEM-M-36/83	06	p0887	N84-15767	#
USARIEM-M-37/83	01	p0113	N84-10735	#
USARIEM-M-38/83	01	p0114	N84-10737	#
USARIEM-M-41/83	03	p0416	N84-12719	#
USARIEM-M-42/83	03	p0414	N84-12708	#
USARIEM-M-43/83	05	p0713	N84-14669	#
USARIEM-M-44/83	05	p0712	N84-14665	#
USARIEM-M-45/83	06	p0890	N84-15780	#
USARIEM-M-46/83	07	p1042	N84-16758	#
USARIEM-T-1/83	03	p0417	N84-12726	#
USARIEM-T-3/83	06	p0893	N84-15801	#
USARIEM-T-3/84	18	p2894	N84-28362	#
USARIEM-T-6/83	06	p0847	N84-15523	#
USARIEM-T-7/83	10	p1547	N84-20140	#
USARO-TR-D-65	08	p1220	N84-17961	#
USASC-TR-83-7	03	p0328	N84-12137	#
USC-CE-83-05	14	p2158	N84-23926*	#
USCG-BULL-67	08	p1195	N84-17793	#
USCG-D-08-84	19	p2961	N84-28769	#
USCG-D-11-83	01	p0108	N84-10702	#
USCG-D-12-84	19	p2959	N84-28753	#
USCG-D-14-83	01	p0062	N84-10406	#
USCG-D-17-84	20	p3174	N84-30156	#
USCG-D-18-83	07	p1041	N84-16749	#
USCG-D-20-83	13	p1983	N84-22877	#
USCG-D-28-83	11	p1604	N84-20508	#
USCG-D-29-83	06	p0784	N84-15138	#
USCG-D-30-83	07	p1041	N84-16748	#
USCG-D-31-82	21	p3460	N84-31946	#
USCG-D-35-83	17	p2724	N84-27337	#
USCG-D-79-83	11	p1604	N84-20507	#

USCG-188-36 ..... 08 p1195 N84-17793 #

USCIPI-1100 ..... 20 p3300 N84-30956 #

USCSC-TR-01-84 ..... 20 p3188 N84-30257 #

USDAES-83-NFAP-327 ..... 01 p0099 N84-10646* #

USGS-CIRC-864 ..... 14 p2175 N84-24027 #
USGS-CIRC-866 ..... 14 p2166 N84-23988 #
USGS-CIRC-884 ..... 03 p0401 N84-12623 #
USGS-CIRC-886 ..... 03 p0395 N84-12577 #
USGS-CIRC-892 ..... 22 p3615 N84-32902 #
USGS-CIRC-896-A ..... 11 p1677 N84-20945 #
USGS-CIRC-896-B ..... 14 p2175 N84-24026 #
USGS-CIRC-898 ..... 14 p2174 N84-24025 #
USGS-CIRC-906 ..... 11 p1677 N84-20944 #
USGS-CIRC-910 ..... 10 p1531 N84-20029 #
USGS-CIRC-911 ..... 14 p2160 N84-23934 #
USGS-CIRC-914 ..... 14 p2175 N84-24028 #

USGS-GD-83-009 ..... 08 p1189 N84-17749 #
USGS-GD-84-002 ..... 20 p3243 N84-30591 #

USGS-OFR-83-455 ..... 21 p3444 N84-31854 #
USGS-OFR-83-535 ..... 20 p3247 N84-30610 #
USGS-OFR-83-608 ..... 04 p0564 N84-13716 #
USGS-OFR-83-616 ..... 10 p1526 N84-19995 #
USGS-OFR-83-669 ..... 15 p2369 N84-25213 #
USGS-OFR-84-114 ..... 20 p3242 N84-30584 #

USGS-OPEN-FILE-83-568 ..... 10 p1524 N84-19985 #

USGS-OR-84-120 ..... 23 p3798 N84-34085 #

USGS-WRD-AD-82-1 ..... 09 p1340 N84-18753 #

USGS-WRD-AL-82 ..... 20 p3229 N84-30523 #

USGS-WRD-CO-82-3 ..... 09 p1339 N84-18743 #

USGS-WRD-ID-82-1 ..... 09 p1338 N84-18740 #
USGS-WRD-ID-82-2 ..... 09 p1338 N84-18741 #

USGS-WRD-IL-82-1 ..... 09 p1338 N84-18738 #
USGS-WRD-IL-82-2 ..... 09 p1338 N84-18739 #

USGS-WRD-IN-82-1 ..... 09 p1339 N84-18747 #

USGS-WRD-LA-82-1 ..... 09 p1339 N84-18750 #

USGS-WRD-MT-82-1 ..... 09 p1339 N84-18749 #
USGS-WRD-MT-82-2 ..... 09 p1340 N84-18752 #

USGS-WRD-NJ-82-1 ..... 09 p1338 N84-18736 #
USGS-WRD-NJ-82-2 ..... 09 p1338 N84-18737 #

USGS-WRD-NV-82-1 ..... 09 p1340 N84-18755 #

USGS-WRD-NY-82-1 ..... 09 p1339 N84-18744 #
USGS-WRD-NY-82-2 ..... 09 p1339 N84-18742 #
USGS-WRD-NY-82-3 ..... 10 p1527 N84-20003 #

USGS-WRD-PR-82-1 ..... 09 p1339 N84-18746 #

USGS-WRD-SC-82-1 ..... 14 p2170 N84-24003 #

USGS-WRD-SD-82-1 ..... 09 p1339 N84-18748 #

USGS-WRD-UT-82-1 ..... 09 p1340 N84-18756 #

USGS-WRD-VA-82-1 ..... 09 p1340 N84-18751 #

USGS-WRD-WV-82-1 ..... 09 p1340 N84-18754 #

USGS-474-11 ..... 03 p0409 N84-12673 #
USGS-3902886 ..... 02 p0240 N84-11576 #

USGS/GD-83/010 ..... 09 p1346 N84-18795 #
USGS/GD-84/001 ..... 15 p2369 N84-25216 #

USGS/WDR/AR-82-1 ..... 20 p3229 N84-30522 #

USGS/WDR/FL-82/1B ..... 14 p2170 N84-24001 #

USGS/WDR/IA-82/1 ..... 10 p1528 N84-20009 #

USGS/WDR/MA-RI-82-1 ..... 20 p3229 N84-30521 #

USGS/WDR/ND-82/1 ..... 10 p1528 N84-20008 #

USGS/WDR/OR-82/1-VOL-1 ..... 14 p2171 N84-24005 #

USGS/WDR/TX-82/1 ..... 10 p1527 N84-20006 #

USGS/WRD-83/077 ..... 10 p1528 N84-20009 #

USGS/WRD/CO-82/2 ..... 10 p1527 N84-20004 #

USGS/WRD/FL-82/1A ..... 14 p2170 N84-24002 #

USGS/WRD/HD-82/027 ..... 09 p1339 N84-18746 #
USGS/WRD/HD-82/048 ..... 09 p1340 N84-18756 #
USGS/WRD/HD-82/050 ..... 14 p2171 N84-24004 #
USGS/WRD/HD-82/053 ..... 10 p1527 N84-20004 #
USGS/WRD/HD-82/054 ..... 09 p1339 N84-18743 #
USGS/WRD/HD-82/056 ..... 09 p1338 N84-18736 #
USGS/WRD/HD-82/057 ..... 09 p1338 N84-18737 #
USGS/WRD/HD-82/059 ..... 09 p1340 N84-18753 #
USGS/WRD/HD-82/064 ..... 09 p1338 N84-18740 #
USGS/WRD/HD-82/065 ..... 09 p1338 N84-18741 #
USGS/WRD/HD-82/066 ..... 09 p1339 N84-18750 #
USGS/WRD/HD-82/071 ..... 09 p1338 N84-18738 #
USGS/WRD/HD-82/072 ..... 09 p1338 N84-18739 #
USGS/WRD/HD-82/074 ..... 09 p1340 N84-18754 #
USGS/WRD/HD-82/078 ..... 14 p2170 N84-24003 #
USGS/WRD/HD-82/081 ..... 10 p1528 N84-20008 #
USGS/WRD/HD-82/084 ..... 14 p2170 N84-24001 #
USGS/WRD/HD-83/010 ..... 20 p3229 N84-30522 #
USGS/WRD/HD-83/036 ..... 09 p1339 N84-18744 #
USGS/WRD/HD-83/037 ..... 09 p1339 N84-18742 #
USGS/WRD/HD-83/038 ..... 10 p1527 N84-20003 #
USGS/WRD/HD-83/049 ..... 09 p1340 N84-18751 #
USGS/WRD/HD-83/055 ..... 09 p1340 N84-18752 #
USGS/WRD/HD-83/060 ..... 10 p1527 N84-20006 #
USGS/WRD/HD-83/063 ..... 09 p1339 N84-18747 #
USGS/WRD/HD-83/067 ..... 09 p1340 N84-18755 #
USGS/WRD/HD-83/075 ..... 09 p1339 N84-18749 #
USGS/WRD/HD-83/076 ..... 09 p1339 N84-18748 #
USGS/WRD/HD-83/083 ..... 14 p2170 N84-24002 #
USGS/WRD/HD-84/003-VOL-1 ..... 14 p2171 N84-24007 #
USGS/WRD/HD-84/004-VOL-2 ..... 14 p2171 N84-24008 #
USGS/WRD/HD-84/005-VOL-1 ..... 14 p2171 N84-24005 #
USGS/WRD/HD-84/006-VOL-2 ..... 14 p2171 N84-24006 #
USGS/WRD/HD-84/007 ..... 14 p2170 N84-23999 #
USGS/WRD/HD-84/008 ..... 20 p3229 N84-30523 #
USGS/WRD/HD-84/009 ..... 14 p2170 N84-24000 #
USGS/WRD/HD-84/013 ..... 20 p3229 N84-30521 #

USGS/WRD/KY-82/1 ..... 14 p2171 N84-24004 #

USGS/WRD/MN-82/2-VOL-2 ..... 14 p2171 N84-24008 #

USGS/WRD/NH-VT-82/1 ..... 14 p2170 N84-24000 #

USGS/WRD/PA-82/1 ..... 14 p2170 N84-23999 #

USIP-84-04 ..... 20 p3159 N84-30061 #
USIP-84-06 ..... 20 p3151 N84-30009 #
USIP-84-08 ..... 20 p3298 N84-30940 #

USNA-AR-8 ..... 15 p2416 N84-25507 #

USNA-EW-20-83 ..... 05 p0653 N84-14293 #

USNA-MS-01-84-PT-1 ..... 24 p3908 N84-34755 #

USNA-TSPR-122 ..... 08 p1244 N84-18133 #
USNA-TSPR-124 ..... 07 p1080 N84-17019 #
USNA-TSPR-126 ..... 07 p1051 N84-16807 #

USSR-AC-802246 ..... 01 p0036 N84-10225 #

UT-EE-83-21 ..... 05 p0674 N84-14428 #

UT-GC-575 ..... 08 p1195 N84-17790 #

UT-MW-84-2 ..... 17 p2663 N84-26987 #

UT/CES-SS-1 ..... 16 p2519 N84-26172 #

UTC/CSD-2742 ..... 06 p0812 N84-15287 #
UTC/CSD-2742 ..... 15 p2304 N84-24823 #

UTCMSE-84-1 ..... 14 p2120 N84-23705 #

UTD-22831-961 ..... 20 p3302 N84-30968 #
UTD-23071-961(E-0618) ..... 15 p2283 N84-24707 #

UTEC-ME-84-075 ..... 21 p3491 N84-32121* #

UTEC-83-075 ..... 18 p2833 N84-27986 #
UTEC-83-84004 ..... 20 p3256 N84-30670 #
UTEC-84-026 ..... 20 p3311 N84-31027 #

UTIAS-TECH-NOTE-248 ..... 11 p1651 N84-20779 #

UTIAS-TN-243 ..... 17 p2671 N84-27023 #
UTIAS-TN-244 ..... 03 p0371 N84-12416 #
UTIAS-TN-245 ..... 09 p1250 N84-18160 #
UTIAS-TN-246 ..... 07 p0959 N84-16218 #
UTIAS-TN-247 ..... 07 p0950 N84-16165 #
UTIAS-TN-252 ..... 17 p2615 N84-26738* #

UTIAS-TN-254 ..... 17 p2748 N84-27442 #
UTIAS-TN-255 ..... 21 p3399 N84-31563 #

UTIAS-247 ..... 09 p1328 N84-18674 #
UTIAS-253 ..... 01 p0077 N84-10502 #
UTIAS-267 ..... 01 p0003 N84-10023 #
UTIAS-269 ..... 03 p0432 N84-12828 #
UTIAS-270 ..... 21 p3399 N84-31562 #
UTIAS-272 ..... 11 p1651 N84-20780 #
UTIAS-274 ..... 12 p1815 N84-21829 #
UTIAS-275 ..... 14 p2145 N84-23853 #
UTIAS-276 ..... 21 p3421 N84-31701 #
UTIAS-277 ..... 14 p2100 N84-23604 #
UTIAS-278 ..... 14 p2222 N84-24331 #
UTIAS-281 ..... 12 p1815 N84-21830 #

UTRC-R83-926157 ..... 05 p0742 N84-14877 #
UTRC-R83-956114-12 ..... 08 p1128 N84-17333 #

UTRC-884-915908-29 ..... 08 p1139 N84-17407* #

UTRC/R82-925832 ..... 09 p1322 N84-18639 #
UTRC/R83-912666-58-VOL-1 ..... 08 p1099 N84-17149* #
UTRC/R83-915712-2 ..... 10 p1422 N84-19298 #
UTRC/R83-916100-1 ..... 02 p0194 N84-11260 #
UTRC/R83-916154-1 ..... 14 p2123 N84-23722 #
UTRC/R83-956216-1 ..... 06 p0926 N84-16017 #
UTRC/R84-915797-4 ..... 20 p3153 N84-30019 #

UTRC/926050 ..... 18 p2611 N84-27847 #
UTRC/955279-1 ..... 19 p2989 N84-28939 #

UTRC83-6 ..... 03 p0388 N84-12530* #

UVA-ER-914-84U ..... 21 p3401 N84-31573 #

UVA/52810/MAE84/101 ..... 07 p1012 N84-16562* #
UVA/52824/MAE84/101 ..... 07 p0964 N84-16246* #
UVA/525393/SE84/101 ..... 14 p2219 N84-24313 #
UVA/525634/EE83/106 ..... 01 p0069 N84-10453 #
UVA/525636/MS84/101 ..... 19 p2993 N84-28966 #
UVA/528209/AMCS85/105 ..... 22 p3637 N84-33056* #
UVA/528213/AMCS84/104 ..... 12 p1876 N84-22228* #
UVA/528213/CS85/105 ..... 21 p3463 N84-31954* #
UVA/528219/EE84/102 ..... 10 p1432 N84-19360* #
UVA/528219/EE84103 ..... 15 p2327 N84-24974* #
UVA/528224/MAE85/102 ..... 21 p3353 N84-31267* #
UVA/528228/MAE84/101 ..... 10 p1419 N84-19283* #

UWA/DME/TR-83/48 ..... 01 p0095 N84-10618 #
UWA/DME/TR-84/49 ..... 22 p3611 N84-32880 #

UWFDM-458 ..... 12 p1910 N84-22444 #

UWIS-DS-83-725 ..... 07 p1062 N84-16884 #

UWIS/DC/R-83-2 ..... 02 p0298 N84-11958 #

UWIS/DC/TR-83/1 ..... 02 p0298 N84-11957 #
UWIS/DC/TR-83/3 ..... 05 p0647 N84-14253 #
UWIS/DC/TR-84/1 ..... 19 p3051 N84-29360 #

UWME-DR-301-103-1 ..... 08 p1122 N84-17294 #
UWME-DR-301-104-1 ..... 12 p1790 N84-21672 #

UWMETW1-82/1 ..... 01 p0110 N84-10712 #

V-83-64212 ..... 21 p3369 N84-31377 #
V-84-81528 ..... 21 p3467 N84-31986 #

VDW-PUBL-267 ..... 19 p3105 N84-29731 #

VFW-29/83-O 16 p2561 N84-26431
VFW-30/83-O 16 p2562 N84-26438
VFW-31/83-O 16 p2562 N84-26439

VHTRC-84-R10 ..... 17 p2654 N84-26976 #

VI-697 ..... 10 p1533 N84-20042* #

VKI-CR-1983-05 ..... 10 p1493 N84-19765 #

VKI-IN-77 ..... 24 p3900 N84-34699 #

VKI-LS-1983-01 ..... 06 p0834 N84-15429 #
VKI-LS-1983-02 ..... 06 p0835 N84-15438 #
VKI-LS-1983-03 ..... 06 p0837 N84-15448 #
VKI-LS-1983-04-VOL-1 ..... 06 p0838 N84-15461 #
VKI-LS-1983-04-VOL-2 ..... 06 p0839 N84-15467 #
VKI-LS-1983-05 ..... 06 p0767 N84-15025 #
VKI-LS-1983-06-VOL-1 ..... 06 p0840 N84-15472 #
VKI-LS-1983-06-VOL-2 ..... 06 p0841 N84-15482 #
VKI-LS-1983-07-VOL-1 ..... 06 p0841 N84-15487 #
VKI-LS-1983-07-VOL-2 ..... 06 p0842 N84-15494 #
VKI-LS-1984-01 ..... 16 p2440 N84-25656 #
VKI-LS-1984-02-VOL-1 ..... 16 p2488 N84-25960 #
VKI-LS-1984-02-VOL-2 ..... 16 p2489 N84-25965 #
VKI-LS-1984-03 ..... 16 p2490 N84-25973 #
VKI-LS-1984-04-VOL-1 ..... 16 p2491 N84-25980 #
VKI-LS-1984-04-VOL-2 ..... 16 p2492 N84-25986 #
VKI-LS-1984-05 ..... 19 p3022 N84-29162 #

VKI-NT-148 ..... 08 p1160 N84-17553 #

VKI-PR-1983-22 ..... 15 p2257 N84-24560 #
VKI-PR-1983-28 ..... 15 p2257 N84-24559 #

VPI-AERO-131 ..... 05 p0648 N84-14264 #

VPI-E-80-E-23 ..... 17 p2723 N84-27333 #
VPI-E-83-6 ..... 17 p2617 N84-26750* #
VPI-E-83-9 ..... 16 p2460 N84-25767* #
VPI-E-83-17 ..... 09 p1288 N84-18411* #
VPI-E-83-37 ..... 13 p2000 N84-22975* #
VPI-E-83-41 ..... 09 p1260 N84-18223 #
VPI-E-83-45 ..... 09 p1332 N84-18695 #
VPI-E-83-48 ..... 16 p2493 N84-25993 #
VPI-E-84-7 ..... 15 p2302 N84-24815 #
VPI-E-84-8 ..... 15 p2298 N84-24790 #
VPI-E-84-10 ..... 18 p2809 N84-27830* #
VPI-E-84-12 ..... 16 p2471 N84-25840* #
VPI-E-84-14 ..... 12 p1825 N84-21900* #
VPI-E-84-15 ..... 17 p2680 N84-27068 #
VPI-E-84-16 ..... 16 p2460 N84-25768* #
VPI-E-84-17 ..... 20 p3204 N84-30354 #
VPI-E-84-20 ..... 16 p2460 N84-25769* #
VPI-E-84-24 ..... 19 p2986 N84-28919* #
VPI-E-84-27 ..... 24 p3878 N84-34572 #
VPI-E-84-40 ..... 14 p2157 N84-23921* #
VPI-E-8347 ..... 15 p2285 N84-24714 #

VPI-HFL-83-1 ..... 11 p1660 N84-20830 #
VPI-HFL-83-3 ..... 20 p3265 N84-30716 #

VPI-83-44 ..... 21 p3445 N84-31860 #

VPISU/EE/SATCM-83/3 ..... 02 p0211 N84-11382* #

VSC-TR-83-12 ..... 06 p0878 N84-15714 #

VTH-LR-336 ..... 10 p1423 N84-19304 #
VTH-LR-357-PT-1 ..... 10 p1518 N84-19938 #
VTH-LR-364 ..... 10 p1572 N84-20302 #
VTH-LR-368 ..... 10 p1518 N84-19939 #
VTH-LR-369 ..... 10 p1423 N84-19305 #
VTH-LR-370 ..... 17 p2725 N84-27342 #
VTH-LR-373 ..... 10 p1424 N84-19315 #
VTH-LR-374 ..... 12 p1769 N84-21540 #
VTH-LR-376 ..... 10 p1518 N84-19940 #
VTH-LR-377 ..... 10 p1552 N84-20171 #
VTH-LR-378 ..... 10 p1495 N84-19779 #
VTH-LR-379 ..... 10 p1503 N84-19823 #
VTH-LR-380 ..... 10 p1464 N84-19560 #
VTH-LR-381 ..... 10 p1464 N84-19561 #
VTH-LR-382 ..... 12 p1824 N84-21893 #
VTH-LR-383 ..... 10 p1496 N84-19780 #
VTH-LR-384-PT-1 ..... 10 p1431 N84-19357 #
VTH-LR-384-PT-2 ..... 10 p1432 N84-19358 #
VTH-LR-385-VOL-1 ..... 10 p1429 N84-19345 #
VTH-LR-385-VOL-2 ..... 10 p1429 N84-19346 #
VTH-LR-385-VOL-3 ..... 10 p1429 N84-19347 #
VTH-LR-388 ..... 10 p1429 N84-19348 #
VTH-LR-390 ..... 12 p1817 N84-21844 #
VTH-LR-391 ..... 12 p1827 N84-21913 #
VTH-LR-392 ..... 12 p1803 N84-21756 #
VTH-LR-397 ..... 12 p1790 N84-21673 #
VTH-LR-400 ..... 12 p1790 N84-21674 #
VTH-LR-404 ..... 12 p1904 N84-22400 #

VTT-RR-189 ..... 02 p0198 N84-11288 #
VTT-RR-210 ..... 07 p1073 N84-16975 #
VTT-RR-217 ..... 07 p1013 N84-16570 #
VTT-RR-219 ..... 07 p0977 N84-16333 #
VTT-RR-220 ..... 07 p1017 N84-16599 #
VTT-RR-263 ..... 19 p3033 N84-29240 #

VTT-13 ..... 15 p2296 N84-24778 #
VTT-16 ..... 20 p3199 N84-30318 #
VTT-201 ..... 14 p2156 N84-23920 #
VTT-207 ..... 14 p2155 N84-23912 #
VTT-229 ..... 15 p2336 N84-25021 #
VTT-240 ..... 15 p2296 N84-24777 #

VXF830 ..... 18 p2803 N84-27792* #

W-R/D-83-9C1-LK00L-R1 ..... 09 p1319 N84-18620* #

W-10/83 ..... 09 p1333 N84-18702 #
W-11/83 ..... 09 p1333 N84-18703 #
W-45666 ..... 18 p2832 N84-27976* #

WAESD-TR-83-1007 ..... 23 p3787 N84-34017* #

WAESD-TR-84-0001 ..... 23 p3787 N84-34021* #
WAESD-TR-84-0013 ..... 19 p3050 N84-29353* #
WAESD-TR-84-0026 ..... 23 p3786 N84-34012* #

WAOENG-83-48 ..... 21 p3375 N84-31415 #

WBWT-TR-1187 ..... 06 p1237 N84-18088* #

WCP-20 ..... 24 p3933 N84-34899 #
WCP-28 ..... 24 p3933 N84-34898 #
WCP-35-REV-1 ..... 23 p3801 N84-34098 #
WCP-52 ..... 23 p3801 N84-34103 #
WCP-53 ..... 24 p3934 N84-34900 #
WCP-72 ..... 18 p2886 N84-28312 #
WCP-73 ..... 18 p2886 N84-28313 #
WCP-74 ..... 18 p2884 N84-28297 #
WCP-75 ..... 23 p3801 N84-34099 #
WCP-76 ..... 23 p3801 N84-34100 #
WCP-77 ..... 23 p3801 N84-34101 #
WCP-81 ..... 23 p3801 N84-34102 #

WDL-TR9954 ..... 08 p1219 N84-17960 #
WDL-TR10147 ..... 19 p3087 N84-29600 #

WES-INSTRUCTION-K-83-5 ..... 05 p0726 N84-14768 #
WES-INSTRUCTION-K-83-6 ..... 09 p1367 N84-18927 #
WES-INSTRUCTION-K-83-7 ..... 10 p1517 N84-19934 #

WES-IR-K-83-2 ..... 06 p0861 N84-15611 #
WES-IR-K-84-5 ..... 21 p3466 N84-31974 #

WES-MP-S-73-1-20 ..... 06 p0878 N84-15716 #

WES-TM-6-412-4 ..... 20 p3201 N84-30335 #

WES-TR-K-83-3 ..... 06 p0896 N84-15828 #
WES-TR-K-84-1 ..... 14 p2134 N84-23788 #

WES-8 ..... 08 p1195 N84-17792 #

WES/INSTRUCTION/SL-83-1 ..... 09 p1330 N84-18686 #

WES/IR/E-84-1 ..... 21 p3436 N84-31801 #

WES/MP/A-84-1 ..... 19 p3052 N84-29370 #

WES/MP/E-84-4 ..... 21 p3436 N84-31802 #

WES/MP/EL-83-3 ..... 04 p0533 N84-13505 #
WES/MP/EL-84-1 ..... 14 p2170 N84-23996 #

WES/MP/GL-83-26 ..... 09 p1345 N84-18786 #
WES/MP/GL-83-27 ..... 09 p1297 N84-18478 #

WES/MP/HL-83-5 ..... 03 p0411 N84-12688 #
WES/MP/HL-84-2 ..... 20 p3251 N84-30634 #

WES/MP/SL-83-14 ..... 10 p1471 N84-19609 #
WES/MP/SL-83-15 ..... 06 p0822 N84-15357 #
WES/MP/SL-83-19 ..... 01 p0057 N84-10371 #
WES/MP/SL-84-1 ..... 15 p2265 N84-24599 #
WES/MP/SL-84-3 ..... 16 p2477 N84-25880 #

WES/TR/E-84-1 ..... 18 p2877 N84-28271 #

WES/TR/GL-83-1 ..... 05 p0670 N84-14407 #
WES/TR/GL-83-1-2 ..... 02 p0249 N84-11627 #
WES/TR/GL-83-16 ..... 10 p1471 N84-19610 #
WES/TR/GL-83-18 ..... 12 p1804 N84-21760 #

WES/TR/HL-E-84-6 ..... 20 p3170 N84-30130 #

WES/TR/K-83-2 ..... 07 p1061 N84-16878 #
WES/TR/K-83-4 ..... 13 p2001 N84-22986 #

WES/TR/SL-83-4 ..... 09 p1315 N84-18596 #
WES/TR/SL-84-1 ..... 19 p3036 N84-29255 #

WES/TR/Y-78-9 ..... 19 p3042 N84-29299 #
WES/TR/Y-84-1 ..... 20 p3228 N84-30515 #

WHIPP-20 ..... 16 p2565 N84-26458 #

WHOI-TR-83-20 ..... 03 p0402 N84-12632 #

WHOI-83-24 ..... 08 p1196 N84-17800 #
WHOI-83-27 ..... 06 p0908 N84-15901 #
WHOI-83-30 ..... 08 p1196 N84-17796 #
WHOI-83-32 ..... 05 p0711 N84-14659 #
WHOI-83-33 ..... 06 p0883 N84-15745 #
WHOI-83-42 ..... 14 p2183 N84-24081 #
WHOI-84-4 ..... 20 p3291 N84-30891 #
WHOI-84-6 ..... 17 p2737 N84-27389 #
WHOI-84-12 ..... 19 p3032 N84-29230 #

WJSA-FR-83-241 ..... 14 p2150 N84-23881 #

WJSA-FTR-84-19 ..... 23 p3754 N84-33796 #

WMO-5 ..... 02 p0254 N84-11660 #
WMO-8 ..... 06 p1191 N84-17764 #
WMO-100 ..... 15 p2371 N84-25225 #
WMO-134 ..... 03 p0412 N84-12697 #
WMO-168 ..... 15 p2358 N84-25145 #
WMO-617 ..... 13 p2017 N84-23078 #
WMO-618 ..... 06 p0882 N84-15741 #
WMO-621 ..... 15 p2371 N84-25226 #
WMO-623 ..... 13 p2019 N84-23089 #
WMO-626 ..... 18 p2886 N84-28314 #
WMO-628 ..... 20 p3248 N84-30614 #

WORKSHOP-PROCEEDINGS-1 ..... 10 p1538 N84-20077 #

WP-16-83-84 ..... 10 p1591 N84-20427 #
WP-89-82-83 ..... 03 p0425 N84-12784 #
WP-25012 ..... 16 p2565 N84-26457 #

WQEC/C-83-133 ..... 09 p1341 N84-18759* #
WQEC/C-83-423 ..... 24 p3897 N84-34678 #
WQEC/C-83-428 ..... 09 p1341 N84-18758* #

WRC-713-R ..... 09 p1322 N84-18640 #

WRRC-PUB-73 ..... 05 p0698 N84-14580 #

WRRI-113 ..... 08 p1192 N84-17767 #

WR28-1-900-110 ..... 21 p3402 N84-31580 #
WR83-43 ..... 13 p2039 N84-23234* #

WS-LGTA-83-12 ..... 21 p3375 N84-31415 #

WSG-UN-83-1 ..... 01 p0111 N84-10722 #

WSRL-0303-TM ..... 05 p0662 N84-14348 #
WSRL-0327-TR ..... 20 p3134 N84-29900 #
WSRL-0332-TR ..... 22 p3543 N84-32430 #
WSRL-0342-TM ..... 24 p3963 N84-35095 #
WSRL-0343-TR ..... 22 p3625 N84-32969 #

WTHD-155 ..... 12 p1823 N84-21886 #
WTHD-157 ..... 07 p1005 N84-16522 #
WTHD-159 ..... 07 p0949 N84-16156 #
WTHD-160 ..... 07 p0973 N84-16305 #
WTHD-161 ..... 20 p3263 N84-30703 #

WU-PAPER-174 ..... 05 p0678 N84-14460

WU/SRL-59583-1 ..... 03 p0452 N84-12974 #
WU/SRL-64422-22 ..... 14 p2243 N84-24465 #

W83-03271 ..... 01 p0101 N84-10655 #
W83-03318 ..... 01 p0112 N84-10730 #
W83-03352 ..... 01 p0039 N84-10246 #
W83-03369 ..... 01 p0039 N84-10247 #
W83-03465 ..... 01 p0110 N84-10714 #
W83-03490 ..... 01 p0039 N84-10248 #
W83-03675 ..... 03 p0403 N84-12633 #
W83-03678 ..... 03 p0351 N84-12284 #
W83-03727 ..... 04 p0496 N84-13257 #
W83-03772 ..... 04 p0517 N84-13394 #
W83-03778 ..... 04 p0555 N84-13658 #
W83-03822 ..... 05 p0697 N84-14579 #
W83-03899 ..... 05 p0698 N84-14580 #
W83-03916 ..... 06 p0867 N84-15645 #
W83-03996 ..... 05 p0698 N84-14581 #
W83-04158 ..... 08 p1192 N84-17767 #
W84-00007 ..... 08 p1179 N84-17684 #
W84-00434 ..... 09 p1343 N84-18770 #
W84-00639 ..... 10 p1533 N84-20039 #
W84-00641 ..... 10 p1527 N84-20007 #
W84-00962 ..... 11 p1630 N84-20664 #
W84-00964 ..... 11 p1672 N84-20912 #
W44362 ..... 10 p1484 N84-19705* #

X-601-84-10 ..... 16 p2582 N84-26562* #
X-616-84-21 ..... 24 p3944 N84-34973* #
X-693-84-9 ..... 14 p2221 N84-24326* #
X-711-84-16 ..... 22 p3581 N84-32681* #

Y-2282 ..... 23 p3750 N84-33774 #

Y/A-3380 ..... 13 p2017 N84-23080 #

Y/CP-17 ..... 01 p0091 N84-10593 #

Y/CSD/INF-83/3 ..... 05 p0758 N84-14968 #

Y/DV-203 ..... 03 p0353 N84-12295 #
Y/DV-205 ..... 06 p0807 N84-15256 #
Y/DV-304 ..... 22 p3605 N84-32837 #
Y/DV-315 ..... 04 p0500 N84-13280 #

Y/DW-489 ..... 21 p3466 N84-31976 #

Y/DX-542 ..... 19 p3003 N84-29029 #

Y/SUB-80-7733/201 ..... 19 p2986 N84-28923 #

YALEU/CSD/RR-284 ..... 06 p0895 N84-15913 #
YALEU/CSD/RR-289 ..... 10 p1567 N84-20268 #
YALEU/CSD/RR-307 ..... 17 p2757 N84-27500 #

YALEU/DCS/RR-261 ..... 21 p3474 N84-32017 #
YALEU/DCS/RR-285 ..... 06 p0897 N84-15825 #
YALEU/DCS/RR-291 ..... 14 p2211 N84-24277 #
YALEU/DCS/RR-292 ..... 14 p2169 N84-23994 #
YALEU/DCS/RR-299 ..... 14 p2212 N84-24281 #
YALEU/DCS/RR-300 ..... 14 p2214 N84-24300 #
YALEU/DCS/RR-305 ..... 17 p2758 N84-27513 #
YALEU/DCS/RR-309 ..... 17 p2758 N84-27511 #
YALEU/DCS/RR-310 ..... 17 p2758 N84-27512 #
YALEU/DCS/RR-311 ..... 17 p2749 N84-27451 #
YALEU/DCS/RR-313 ..... 19 p3068 N84-29602 #

YALEU/DCS/TR-287 ..... 14 p2219 N84-24316 #
YALEU/DCS/TR-293 ..... 14 p2211 N84-24278 #
YALEU/DCS/TR-297 ..... 20 p3282 N84-30633 #
YALEU/DCS/TR-301 ..... 14 p2213 N84-24291 #
YALEU/DCS/TR-315 ..... 19 p3062 N84-29427 #

YLYK/AFOSR/SBIRI/83-84/001 ..... 21 p3386 N84-31488 #

YM-N4-04453 ..... 12 p1828 N84-21920* #
YM-N4-04454 ..... 12 p1829 N84-21921* #
YM-N4-04455 ..... 12 p1829 N84-21922* #
YM-N4-04456 ..... 12 p1829 N84-21923* #
YM-N4-04457 ..... 12 p1828 N84-21919* #

Y256P074 ..... 02 p0214 N84-11405 #

13 ..... 06 p0933 N84-16066 #

61045 ..... 06 p0874 N84-15686 #

☆ U.S. GOVERNMENT PRINTING OFFICE : 1985 O - 466-971 : QL 3 Part 2

FEDERAL DEPOSITORY LIBRARY PROGRAM

The Federal Depository Library Program provides Government publications to designated libraries throughout the United States. The Regional Depository Libraries listed below receive and retain at least one copy of nearly every Federal Government publication, either in printed or microfilm form, for use by the general public. These libraries provide reference services and inter-library loans; however, they are *not* sales outlets. You may wish to ask your local library to contact a Regional Depository to help you locate specific publications, or you may contact the Regional Depository yourself.

ARKANSAS STATE LIBRARY
One Capitol Mall
Little Rock, AR 72201
(501) 371-2326

AUBURN UNIV. AT MONTGOMERY LIBRARY
Documents Department
Montgomery, AL 36193
(205) 279-9110, ext. 253

UNIV. OF ALABAMA LIBRARY
Documents Dept.—Box S
University, AL 35486
(205) 348-7369

DEPT. OF LIBRARY, ARCHIVES AND PUBLIC RECORDS
Third Floor—State Cap.
1700 West Washington
Phoenix, AZ 85007
(602) 255-4121

UNIVERSITY OF ARIZONA LIB.
Government Documents Dept.
Tucson, AZ 85721
(602) 626-5233

CALIFORNIA STATE LIBRARY
Govt. Publications Section
P.O. Box 2037
Sacramento, CA 95809
(916) 322-4572

UNIV. OF COLORADO LIB.
Government Pub. Division
Campus Box 184
Boulder, CO 80309
(303) 492-8834

DENVER PUBLIC LIBRARY
Govt. Pub. Department
1357 Broadway
Denver, CO 80203
(303) 571-2131

CONNECTICUT STATE LIBRARY
Government Documents Unit
231 Capitol Avenue
Hartford, CT 06106
(203) 566-4971

UNIV. OF FLORIDA LIBRARIES
Library West
Documents Department
Gainesville, FL 32611
(904) 392-0367

UNIV. OF GEORGIA LIBRARIES
Government Reference Dept.
Athens, Ga 30602
(404) 542-8951

UNIV. OF HAWAII LIBRARY
Govt. Documents Collection
2550 The Mall
Honolulu, HI 96822
(808) 948-8230

UNIV. OF IDAHO LIBRARY
Documents Section
Moscow, ID 83843
(208) 885-6344

ILLINOIS STATE LIBRARY
Information Services Branch
Centennial Building
Springfield, IL 62706
(217) 782-5185

INDIANA STATE LIBRARY
Serials Documents Section
140 North Senate Avenue
Indianapolis, IN 46204
(317) 232-3686

UNIV. OF IOWA LIBRARIES
Govt. Documents Department
Iowa City, IA 52242
(319) 353-3318

UNIVERSITY OF KANSAS
Doc. Collect—Spencer Lib.
Lawrence, KS 66045
(913) 864-4662

UNIV. OF KENTUCKY LIBRARIES
Govt. Pub. Department
Lexington, KY 40506
(606) 257-3139

LOUISIANA STATE UNIVERSITY
Middleton Library
Govt. Docs. Dept.
Baton Rouge, LA 70803
(504) 388-2570

LOUISIANA TECHNICAL UNIV. LIBRARY
Documents Department
Ruston, LA 71272
(318) 257-4962

UNIVERSITY OF MAINE
Raymond H. Fogler Library
Tri-State Regional Documents Depository
Orono, ME 04469
(207) 581-1680

UNIVERSITY OF MARYLAND
McKeldin Lib.—Doc. Div.
College Park, MD 20742
(301) 454-3034

BOSTON PUBLIC LIBRARY
Government Docs. Dept.
Boston, MA 02117
(617) 536-5400 ext. 226

DETROIT PUBLIC LIBRARY
Sociology Department
5201 Woodward Avenue
Detroit, MI 48202
(313) 833-1409

MICHIGAN STATE LIBRARY
P.O. Box 30007
Lansing, MI 48909
(517) 373-0640

UNIVERSITY OF MINNESOTA
Government Pubs. Division
409 Wilson Library
309 19th Avenue South
Minneapolis, MN 55455
(612) 373-7813

UNIV. OF MISSISSIPPI LIB.
Documents Department
University, MS 38677
(601) 232-5857

UNIV. OF MONTANA
Mansfield Library
Documents Division
Missoula, MT 59812
(406) 243-6700

NEBRASKA LIBRARY COMM.
Federal Documents
1420 P Street
Lincoln, NE 68508
(402) 471-2045
In cooperation with University of Nebraska-Lincoln

UNIVERSITY OF NEVADA LIB.
Govt. Pub. Department
Reno, NV 89557
(702) 784-6579

NEWARK PUBLIC LIBRARY
5 Washington Street
Newark, NJ 07101
(201) 733-7812

UNIVERSITY OF NEW MEXICO
Zimmerman Library
Government Pub. Dept.
Albuquerque, NM 87131
(505) 277-5441

NEW MEXICO STATE LIBRARY
Reference Department
325 Don Gaspar Avenue
Santa Fe, NM 87501
(505) 827-2033, ext. 22

NEW YORK STATE LIBRARY
Empire State Plaza
Albany, NY 12230
(518) 474-5563

UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL
Wilson Library
BA SS Documents Division
Chapel Hill, NC 27515
(919) 962-1321

UNIVERSITY OF NORTH DAKOTA
Chester Fritz Library
Documents Department
Grand Forks, ND 58202
(701) 777-2617, ext. 27
(In cooperation with North Dakota State Univ. Library)

STATE LIBRARY OF OHIO
Documents Department
65 South Front Street
Columbus, OH 43215
(614) 462-7051

OKLAHOMA DEPT. OF LIB.
Government Documents
200 NE 18th Street
Oklahoma City, OK 73105
(405) 521-2502

OKLAHOMA STATE UNIV. LIB.
Documents Department
Stillwater, OK 74078
(405) 624-6546

PORTLAND STATE UNIV. LIB.
Documents Department
P.O. Box 1151
Portland, OR 97207
(503) 229-3673

STATE LIBRARY OF PENN.
Government Pub. Section
P.O. Box 1601
Harrisburg, PA 17105
(717) 787-3752

TEXAS STATE LIBRARY
Public Services Department
P.O. Box 12927—Cap. Sta.
Austin, TX 78753
(512) 471-2996

TEXAS TECH UNIV. LIBRARY
Govt. Documents Department
Lubbock, TX 79409
(806) 742-2268

UTAH STATE UNIVERSITY
Merrill Library, U.M.C. 30
Logan, UT 84322
(801) 750-2682

UNIVERSITY OF VIRGINIA
Alderman Lib.—Public Doc.
Charlottesville, VA 22901
(804) 924-3133

WASHINGTON STATE LIBRARY
Documents Section
Olympia, WA 98504
(206) 753-4027

WEST VIRGINIA UNIV. LIB.
Documents Department
Morgantown, WV 26506
(304) 293-3640

MILWAUKEE PUBLIC LIBRARY
814 West Wisconsin Avenue
Milwaukee, WI 53233
(414) 278-3000

ST. HIST LIB. OF WISCONSIN
Government Pub. Section
816 State Street
Madison, WI 53706
(608) 262-4347

WYOMING STATE LIBRARY
Supreme Ct. & Library Bld.
Cheyenne, WY 82002
(307) 777-6344

National Aeronautics and
Space Administration

Washington, D.C.
20546

Official Business
Penalty for Private Use, $300

SPECIAL FOURTH CLASS MAIL
Book

Postage and Fees Paid
National Aeronautics and
Space Administration
NASA-451

POSTMASTER: If Undeliverable (Section 158
Postal Manual) Do Not Return